LIFE Integrated Projects 2016

Optimising the implementation of the 2nd RBMP in the Malta River Basin District

LIFE 16 IPE MT 000008

Action C.13

Title: Restoration of one of the coastal wetland

PART OF AIS GROUP

AIS Environment Ltd,
AIS House, 18, St. John Street,
Fgura, FGR 1447

+356 21803374
www.aisenvironment.mt
info@ais.com.mt

VAT No: MT 1457-1625
Reg No: C18445

Technical Assessment for the Hydrological Regime within il-Ballut ta' Marsaxlokk

As per ERA requirements for SPD8/2021/056

Report

TECHNICAL ASSESSMENT

AIS REF. NO: **PRJ-ENV600**

CLIENT REF. NO: **SPD8/2021/016**

FOURTH VERSION

PUBLICATION DATE

12 August 2022

Document Revision History

Date	Version	Comments	Authors / Contributors
30/06/2022	1.0	First Version	Rebecca Scerri Sacha Dunlop Dr Saviour Scerri
04/08/2022	2.0	Second Version	
08/08/2022	3.0	Third Version	
12/08/2022	4.0	Fourth Version	

Disclaimer

TABLE OF CONTENTS

LIST OF FIGURES

List of Tables

1 Introduction

The Environment & Resources Authority (ERA) has engaged AIS Environment to study the hydrological and geomorphological processes affecting the habitats within the Ballut ta' Marsaxlokk Natura 2000 site and Water Framework Directive 2000/60/EC (WFD) water body. Through the same work, it seeks to identify and assess a series of measures that could be implemented on site to ensure its conservation. This will be achieved by fulfilling the WFD and Habitats Directive 92/43/EEC (HD) objectives i.e. favourable conservation status and good ecological status of the aquatic habitats/ecosystem present within the site.

In line with the requirements of the contract (SPD8/2021/056), the project involves the preparation of three distinct reports, as outlined below:

- Work plan outlining the planned implementation of the contract, including timeframes, deliverables and a contingency plan.
- Progress report providing a status update on the progress made to date towards the successful completion of the contract.
- Scientific report analysing the dynamics of the transitional waters and the links between hydromorphology and ecology.

This document entails the Scientific Report requested as the final deliverable of SPD8/2021/056.

In line with SPD8/2021/056, the overarching objectives of the project are as follows:

(i) Understand the hydrological regime affecting the coastal wetland in question; and
(ii) Identify problems and limitations and provide relevant solutions aimed at improving the ecological status of the related habitats and species.

This tender is being issued as part of the project LIFE 16 IPE MT 008: Optimising the implementation of the 2nd RBMP in the Malta River Basin District, part-financed by the LIFE Programme. The project contributes to the achievement of the objectives of the Water Framework Directive (WFD). The objective of the LIFE 16 IPE MT 008 is to support the implementation of the Water Framework Directive in Malta. This will ensure the optimised management of all water resources on the Maltese Islands.

1.1 Site Location

Il-Ballut ta' Marsaxlokk is one of the several coastal wetlands present within the Maltese islands. The geographical location (35°50'20.54"N and 14°32'56.48"E) of the site is at the south east of Malta within the boundary of the Marsaxlokk locality, specifically at the north-east corner of Marsaxlokk Bay as shown in Figure 1. Figure 2 shows the area of the saline marshland encompassed by the red border. The whole site has a perimeter of 500m and measures approximately 8,900m^2 in area.

FIGURE 1: LOCATION OF SITE WITHIN THE MALTESE ISLANDS (SOURCE: GOOGLE EARTH, 2022)

FIGURE 2: AREA OF THE SALINE MARSHLAND (SOURCE: GOOGLE EARTH 2021)

1.1.1 Historical Background

The site originally consisted of a number of fields, including a bird-trapping site and a canal. The canal formed part of a fish pond system that was located on the west side of the site as shown in Figure 3. Local fishermen caught fish during the summer and kept them in these fish ponds during winter months when fishing in rougher seas was not possible. These fish were harvested in winter and replaced by new catches in the following summer. The fish ponds remained actively in use till the late 19th century.[1]

[1] Bonello, A. (1992). Vegetation and other changes at il-Ballut saline marshland - a nature reserve in the making. [Unpublished undergraduate dissertation]. University of Malta.

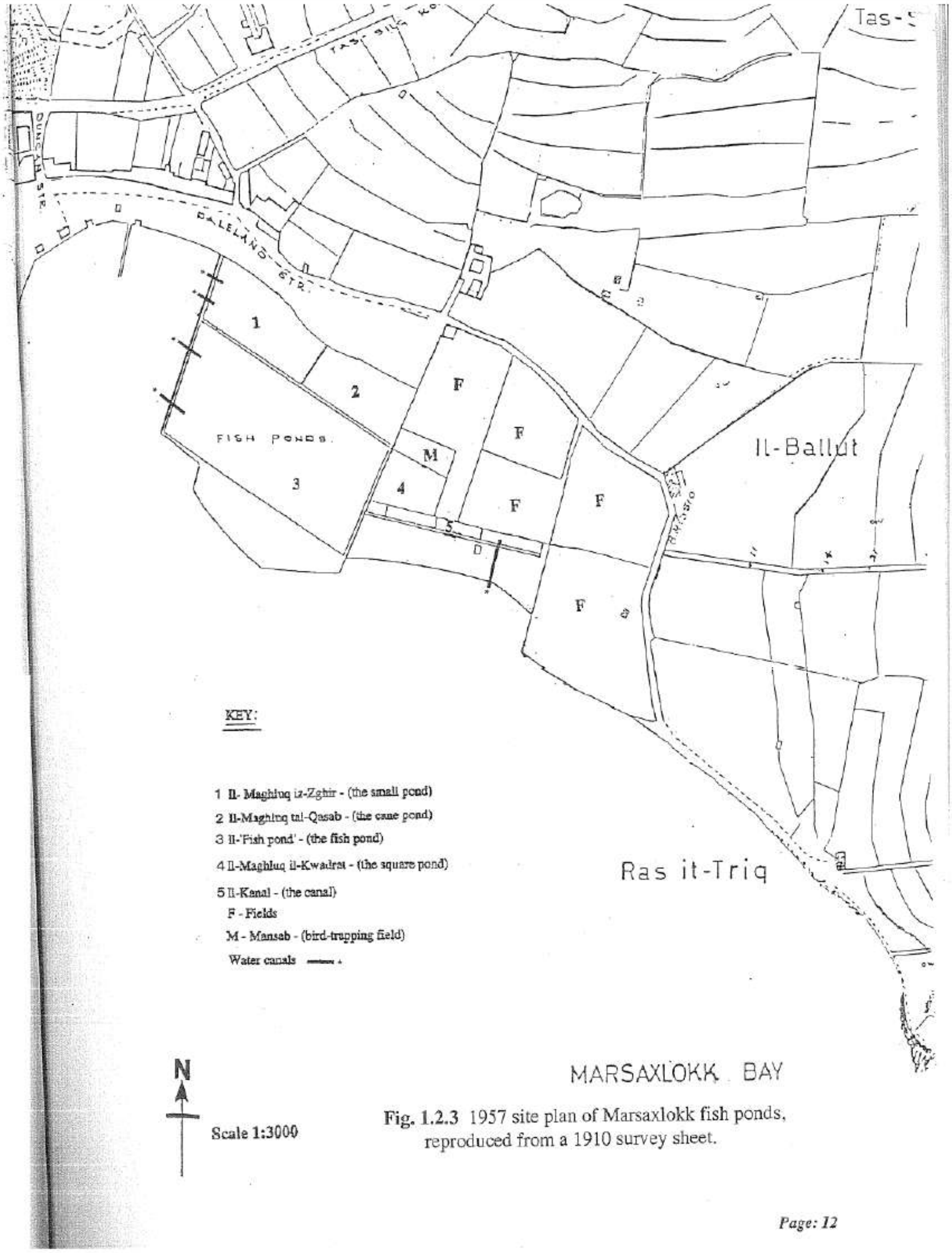


FIGURE 3: A 1957 SITE PLAN SHOWING THE FISH POND SYSTEM AND FIELDS AT BALLUT TA' MARSAXLOKK, ADOPTED FROM A 1910 SURVEY SHEET

On the 28th December 1908, the fish ponds were flooded by a major tidal wave caused by an earthquake in Sicily. Silt which was washed into the fish ponds raised the beds of the ponds, which modified the geomorphological terrain of the area. Figure 4 shows the growth of reeds supported by the resulting silt. Following this climatic event, the ownership of the land was transferred to Hon. Carmel Cassar Torreggiani in the early 1920's who used the area as a hunting ground. Between 1956 and 1958, the area was purchased by the Government and the fishponds were dredged to make way for the construction of il-Magħluq quay which is still present nowadays. Remnants of the canal which previously formed part of the fish pond system are still present to this day.

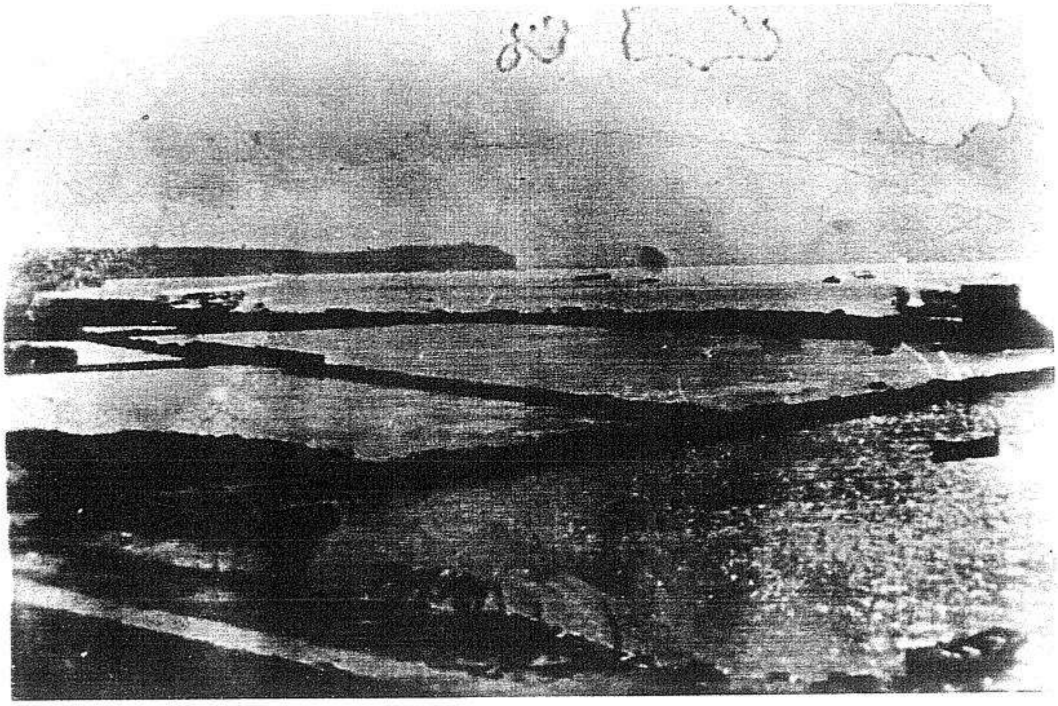


FIGURE 4: A REPRINT OF A 1935 PHOTOGRAPH TAKEN FROM THE NORTHWEST OF THE SALTMARSH, SHOWING THE FISH PONDS AT IL-BALLUT. THE REEDS AT THE BOTTOM LEFT INDICATE THE RAISED FISH POND BEDS. THE DELIMARA PENINSULA IS SEEN IN THE BACKGROUND, TOP LEFT. (COURTESY MAX FARRUGIA).

In the 1950s, the area of land which comprised the canal began to function as a saline marshland. The site was influenced by strong wave action in winter which in turn inundated the marshland. Seawater input became significantly restricted when a sand embankment was constructed in the 1980's which segregated the marshland from the southern beach and the sea. A site plan from 1989 (refer to Figure 5) depicts the newly dredged quay and remains of the fish ponds. In the 1990's, habitat engineering works were undertaken to create the current marshland habitat.

Further excavation works were carried out to increase the number of marshland pools. Culverts were also laid to connect the marshland directly to the sea. However, such direct connections have been discontinued in recent years due to significant debris accumulation within the culverts. The geomorphological features of the saline marshland were also influenced by the dumping of construction waste from the Delimara Power Station in an adjacent field in the late 1980's.

During the 1990's, the saline marshland was also subjected to illegal sewage farm effluent which passed beneath Triq il-Power Station into the saline marshland. Currently, this no longer seems to be a potential source of contamination, as the farm is not operational.[2] In 1999, additional deposition of

[2] ERA (2013). Il-Ballut ta' Marsaxlokk Natura 2000 Management Plan (SAC)

sand stockpiles, soil mounds and rubble took place just outside the reserve in what seems to have been an attempt at beach replenishment. In the same year, development plans related to the nearby catering establishment (Hunters Tower Restaurant) which is still present to this day were also executed.

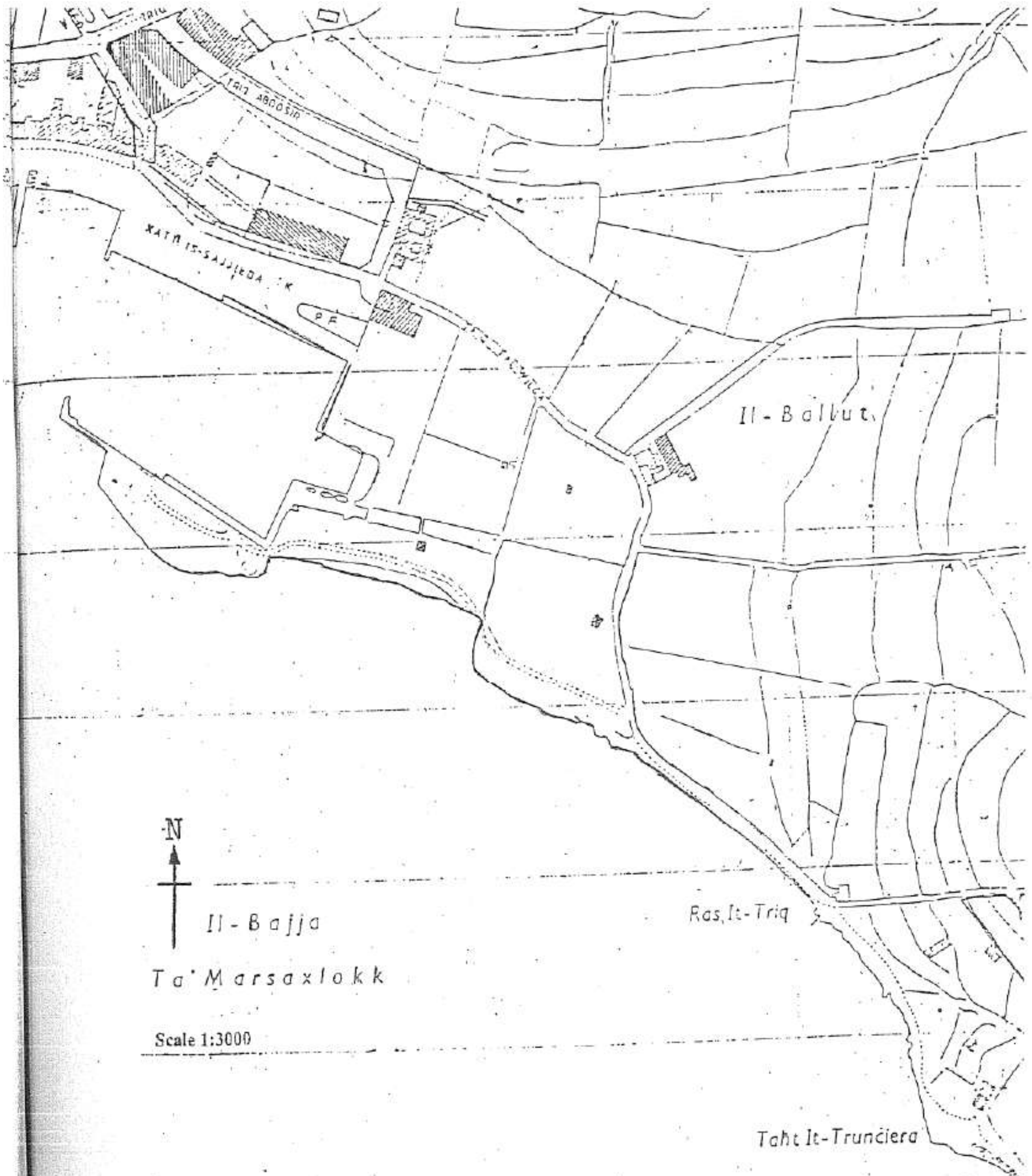


FIGURE 5: A 1989 SITE PLAN OF IL-BALLUT SALINE MARSHLAND, SHOWING THE NEWLY DREDGED QUAY AND THE REMAINS OF THE FISH PONDS

A snapshot taken in 1998, shows the different areas comprising the Nature Reserve, including an abandoned field, the saltmarsh and the reclaimed region (Figure 6). The abandoned field was used as a trapping site and was regularly cleared from vegetation and thus highly disturbed. However, over the years it was abandoned and progressively became colonised by halophytes, with some being introduced anthropogenically. Zonation patterns of halophytes were obscured by the growth of ruderal species especially during the winter season. The saltmarsh region comprised the saltmarsh proper dominated by halophytic vegetation and is still so to this day. This region was delimited by the artificial embankment to the south and by elevated ground and an old wall to the north and accumulated rain water runoff and sea water all year round. The area was characterised by well-defined zonation patterns of vegetation due to the influence of elevation and distance from the sea. Lastly, the reclaimed region was extensively engineered and consisted of a system of interconnected canals (pools of the present day) and a ditch around a higher outcrop of land, the latter of which is still present to this day. Some parts of the reclaimed region were still dominated by ruderals but an increase in species diversity has been noted in other parts.

FIGURE 6: ORTHOPHOTO MAP SHOWING REGIONS OF IL-BALLUT NATURE RESERVE IN 1998

In recognition of the ecological importance of the area, a number of NGOs, including the then Society for the Study and Conservation of Nature, carried out two major clean-ups in 1986 and 1991 together with plantations of Tamarisk trees and shrubs. In 1989, a report was drawn up to propose il-Ballut as a Nature Reserve. Legal protection of the area was subsequently warranted in the 1993 as it was declared a Nature Reserve and a Bird Sanctuary under Legal Notice 146/93 (Environment Protection Act, Act No. V 1991), which came into force on the 1st January of 1994[3]. However, the protected area initially excluded the sandy beach and as a nature reserve, only a select number of species supported by the saline marshland were legally protected.

[3] Henwood, J., Falzon, A. & Bonello, A. (2005). Il-Ballut Nature Reserve, Marsaxlokk- Management Plan 2006-2010.

The marshland also qualified as a Site of Scientific Importance (SSI) (by Structure Plan Policy RCO 11) due to the presence of species with a restricted distribution. In 2003, il-Ballut was designated as a candidate Special Area of Conservation (SAC) according to L.N. 257 of 2003 and G.N. 877 of 2003, following which the designation was successful. The Natura 2000 site now includes the reserve, quay, sandy beach and the catchment of the reserve as shown in Figure 7. According to the 2^{nd} Water Catchment Management Plan (WCMP), il-Ballut ta' Marsaxlokk is categorised as a heavily modified transitional water body.[4]As a bird sanctuary, the site is now managed by Nature Trust Malta.

Management by this Non-governmental organisation (NGO) was based on a Management Agreement in 2018 between the NGO and the Environment and Resources Authority (ERA) as per provisions of regulation 15 of Subsidiary Legislation 549.44. Nature Trust Malta is engaged to perform the services and tasks in line with the Environment Protection Act (Cap. 549) and the laws of Malta.

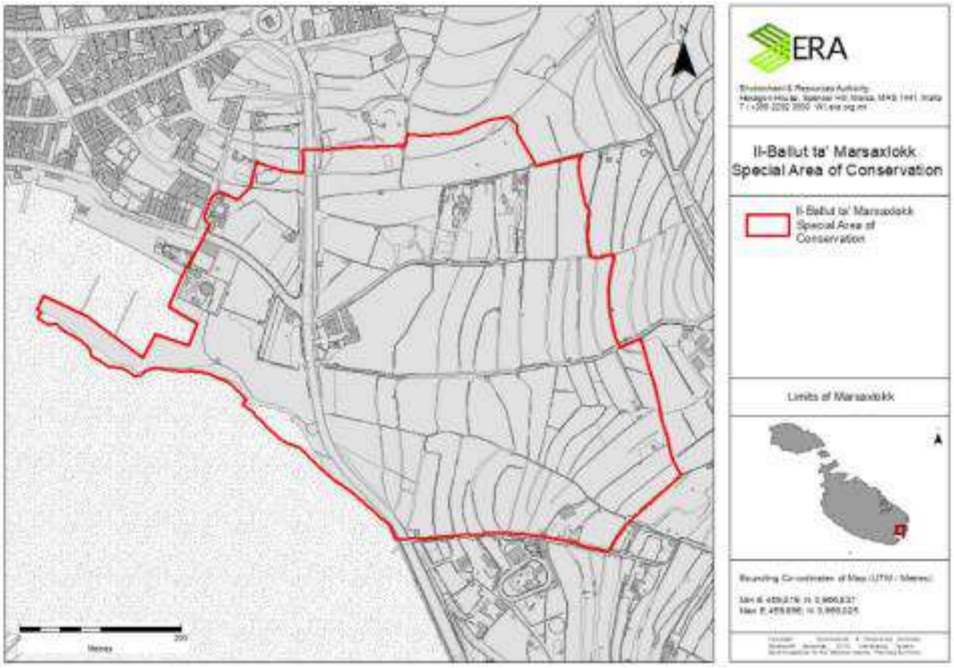


FIGURE 7: MAP OF IL-BALLUT TA' MARSAXLOKK SAC (AREA OF STUDY)

The Table hereunder shows a summary of the timeline of the historical background of il-Ballut ta' Marsaxlokk.

TABLE 1: TIMELINE OF HISTORICAL BACKGROUND OF IL-BALLUT TA' MARSAXLOKK

TIME PERIOD	ACTIVITY
Up to late 19^{th} century	Agriculture, bird trapping and fishing activities in ponds.
Post-19^{th} century	Fish ponds were neglected.

[4] Sustainable Energy and Water Conservation Unit Environment and Resources Authority. (2016). The 2^{nd} Water Catchment Management Plan for the Malta Water Catchment District 2015 - 2021.

Time Period	Activity
28th December 1908	Flooding of fish ponds by tidal wave, raising beds of ponds by silt.
Early 1920's	Land owned and used by Hon. Carmel Cassar Torreggiani as a hunting ground.
1956-1958	Land owned by Government, fish ponds were dredged to form a quay.
1950's	Area began to function as a saline marshland.
1980's	Construction of sand embankment separating marshland from sea.
1986	First major clean-up.
Late 1980's	Dumping of Delimara Power Station construction waste in adjacent field.
1989	Proposal for area to be declared a Nature Reserve.
1990's	Habitat engineering works, illegal sewage infiltration within saline marshland.
1991	Second major clean-up.
1994	Site officially declared as a Nature Reserve and Bird Sanctuary.
1999	Dumping of sand, soil and rubble outside saline marshland as an attempt at beach replenishment and planning of Hunters Tower Restaurant development.
2003	Site designated as a candidate Special Area of Conservation (SAC).

1.1.2 Current Aquatic Features

Geomorphological depressions within the marshland become inundated with water during the winter season from rainwater runoff and wave action following significant storm events. These depressions form bodies of brackish water pools which are sometimes interconnected with one another, particularly when the site is flooded with water. During the summer, these pools become completely desiccated.

The surface is mostly composed of marine sand with common small marine gastropods at times mixed with Terra rossa. On the margin red soil can be seen mixed with angular limestone clasts of various diameters that reveal its artificial nature (Figure 8) showing that it has been heavily modified from its earlier pristine state.

A ditch surrounded by vegetation is present towards the northern boundary of the saline marshland.

FIGURE 8: VIEW OF A SOIL SECTION AT THE COASTAL MARGIN OF THE SALTMARSH SHOWING ANGULAR LIMESTONE CLASTS OF MIXED SIZES IN A BROWN SOIL MATRIX. A FEW CM OF MARINE SAND CAN ALSO BE SEEN AT THE TOP

1.1.3 Geography and Climate

The SAC comprising il-Ballut ta' Marsaxlokk encompasses the surrounding land uses, not just the typical marshland habitat. Consequently, the entire site has a maximum altitude of 62m above sea level. The catchment of the site is depicted in Figure 9. The watershed discharges into a raised tarmac surfaced road and adjacent salt marsh (see Figure 10) with its floor lying at about 30cm above sea level. The road is cut by two long culverts and two grills that possibly discharge into the salt marsh.

FIGURE 9: MAP SHOWING CATCHMENT OF THE SITE (SOURCE: MEPA)

FIGURE 10: DETAIL OF FIELD RELATIONS BETWEEN THE SALT MARSH AND THE ROAD LEADING TO THE DELIMARA POWER STATION, WHICH MAY BE DISCHARGING PART OF THE RUN-OFF GENERATED INTO THE SALT MARSH (SOURCE: GOOGLE EARTH 2021)

Apart from the tarmac surfaced road, the catchment of the salt marsh lies entirely on terraced dry agricultural land. A summer walkover survey indicated that there are no summer crops grown within the catchment indicating that there are no fresh groundwater wells and that the salt marsh is desiccated during the dry season.

Furthermore, there is no defined watercourse and run-off is more or less diffuse and cannot be measured directly during precipitation events. Some green reed beds seen at the road side during the dry season suggest some potential for groundwater availability, possibly through the topsoil and weathered layer. Recharge by run-off is dependent on rainfall and the run-off coefficient of the agricultural terrain that makes up the catchment and storm waves, predominantly during the rainy season. Losses of water are mainly caused by evapotranspiration and possibly by leakage to the underlying Quaternary Deposits filling a buried channel up to 6m deep at the southeast corner next to Hunters Tower (discovered during recent Ground investigation for the redevelopment of an adjacent property).

1.1.4 Surrounding Areas

The higher land of the Delimara peninsula and the Tas-Silġ hills, flank the saline marshland to the east and the north respectively. Northwards from the site are two fields as well as a road leading to the Delimara Power Station. On the western and southern reaches lies a narrow path which separates the saline marshland from the sea. The site is separated from a sandy beach and road by a 2.5m high fenced embankment. The upper reaches of the beach support vegetation coverage to some extent. The narrow strip of sandy beach is in a constant state of flux. The effects of wave erosion and sediment deposition vary significantly with season and with the prominent wave and wind directions. In fact, some sections have experienced sediment and litter deposition that have been transported from the sea more readily. Other sections of this coastline risk complete erosion imperilling the condition of the saline marshland.

In an attempt to circumvent the persisting issue of coastal erosion at the sandy beach, interventions carried out by Infrastructure Malta in Spring 2022 involved the deposition of sediment material and boulders along the beach, consequently modifying its composition (Figure 11). The amount of deposited material raised the elevation of the beach from its pristine state (Figure 12 and Figure 13) and nearly levels the height of the wooden fence, resulting in a physical barrier between the beach and the salt marsh (Figure 14).

The land surrounding the saline marshland is extensively used for cultivation and thus acts as a catchment area during the wet season. Consequently, a small valley drains into the marshland. Seawater reaches the saltmarsh either directly from the littoral zone to the south of the marsh or else in the form of sea spray, especially when strong winds are originating from south-eastern direction.

FIGURE 11: STATE OF THE SANDY BEACH OUTSIDE IL-BALLUT TA' MARSAXLOKK BEFORE THE DEPOSITION OF SEDIMENT MATERIAL AND AFTER DEPOSITION

Figure 12: Increased elevation of beach in comparison to pristine section of the beach

Figure 13: Increased elevation of the beach

FIGURE 14: PHYSICAL BARRIER BETWEEN COASTAL ENVIRONMENT AND THE SALT MARSH AS A RESULT OF DEPOSITED MATERIAL ON THE BEACH

A sump/reservoir is located eastwards from the salt marsh at il-Ballut ta' Marsaxlokk across Triq il-Power Station and is essential in its contribution in replenishing the saltmarsh. The sump collects runoff from the catchment and transmits this runoff to the trench on the opposite side of the road via two 800mm diameter pipes. From the trench, runoff is shed into the saltmarsh. (See Figure 15 to Figure 17 below). The culverts and grills found in Powerhouse Road collect stormwater from the road only, and discharge into the margin of the saltmarsh (see Figure 17 Below). There is a pool fed by an aquifer bearing groundwater as shown in Figure 16.

The water quality of the sump may be affected by a recently proposed development (PA/03071/22) located immediately adjacent to the sump (Figure 18), at St. Mary's Farm, Triq il-Power Station & alley in, Triq il-Power Station (Figure 19). The works will involve the demolition of existing two disused farms (swine - M293, formerly M093 and sheep - R1559) and construction of tourism accommodation (Class 3A) at basement and ground floor levels including ancillary facilities plus other additions and alterations.

However, the Environment and Resources Authority has objected to this planning applicating due to the substantial take up of land within an Outside Development Zone (ODZ), the vicinity of the development to the legally protected salt marsh of il-Ballut ta' Marsaxlokk as well as potential long-term effects imposed by the development on the surrounding land uses.

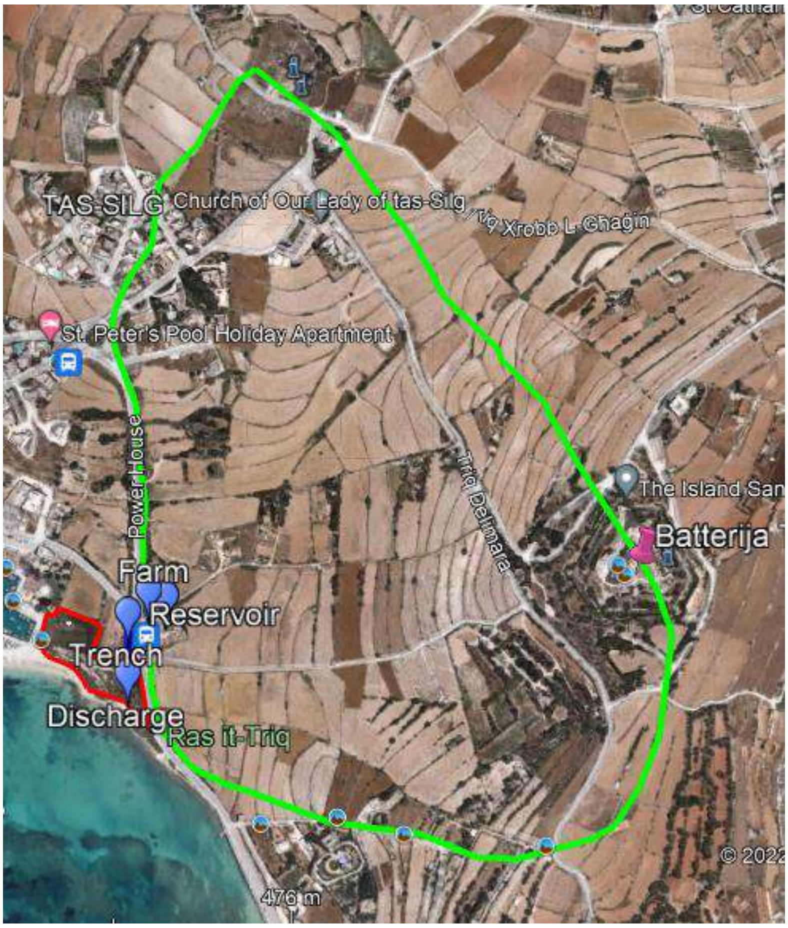


FIGURE 15: GOOGLE IMAGE SHOWING CATCHMENT OF THE SALTMARSH AND THE RESERVOIR OR PIT WHERE RUNOFF IS COLLECTED AND TRANSMITTED BY TWO SUBSURFACE 80CM DIAMETER PIPES TO THE TRENCH ON OPPOSITE SIDE OF THE ROAD

FIGURE 16: GOOGLE IMAGE SHOWING THE RESERVOIR (SUMP OR PIT) COLLECTING RUNOFF FROM THE CATCHMENT AND DIRECTED TO THE TRENCH ON OPPOSITE SIDE OF THE ROAD

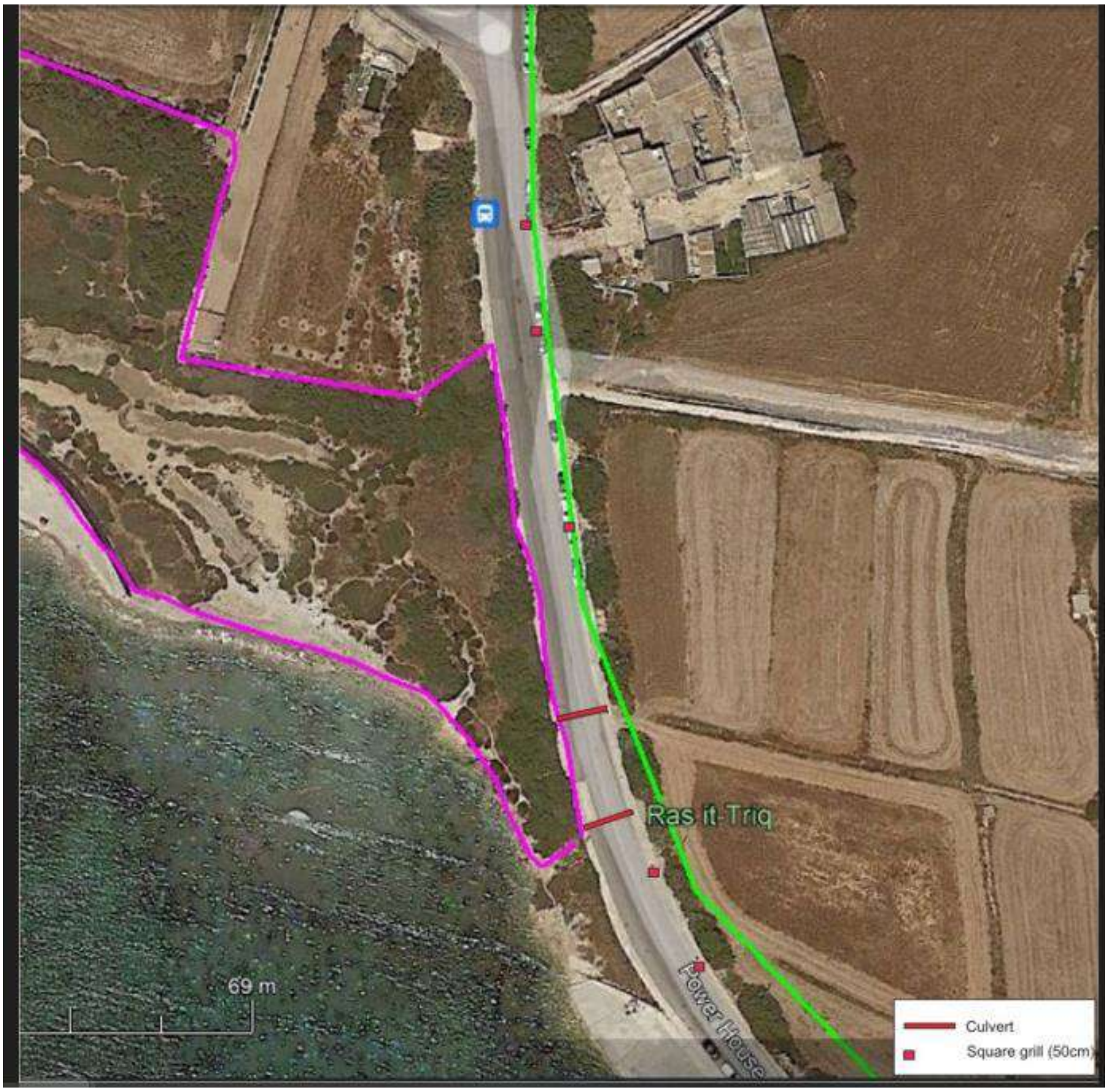


FIGURE 17: GOOGLE IMAGE SHOWING THE STORMWATER DRAINAGE GRILLS AND CULVERTS IN POWER HOUSE ROAD

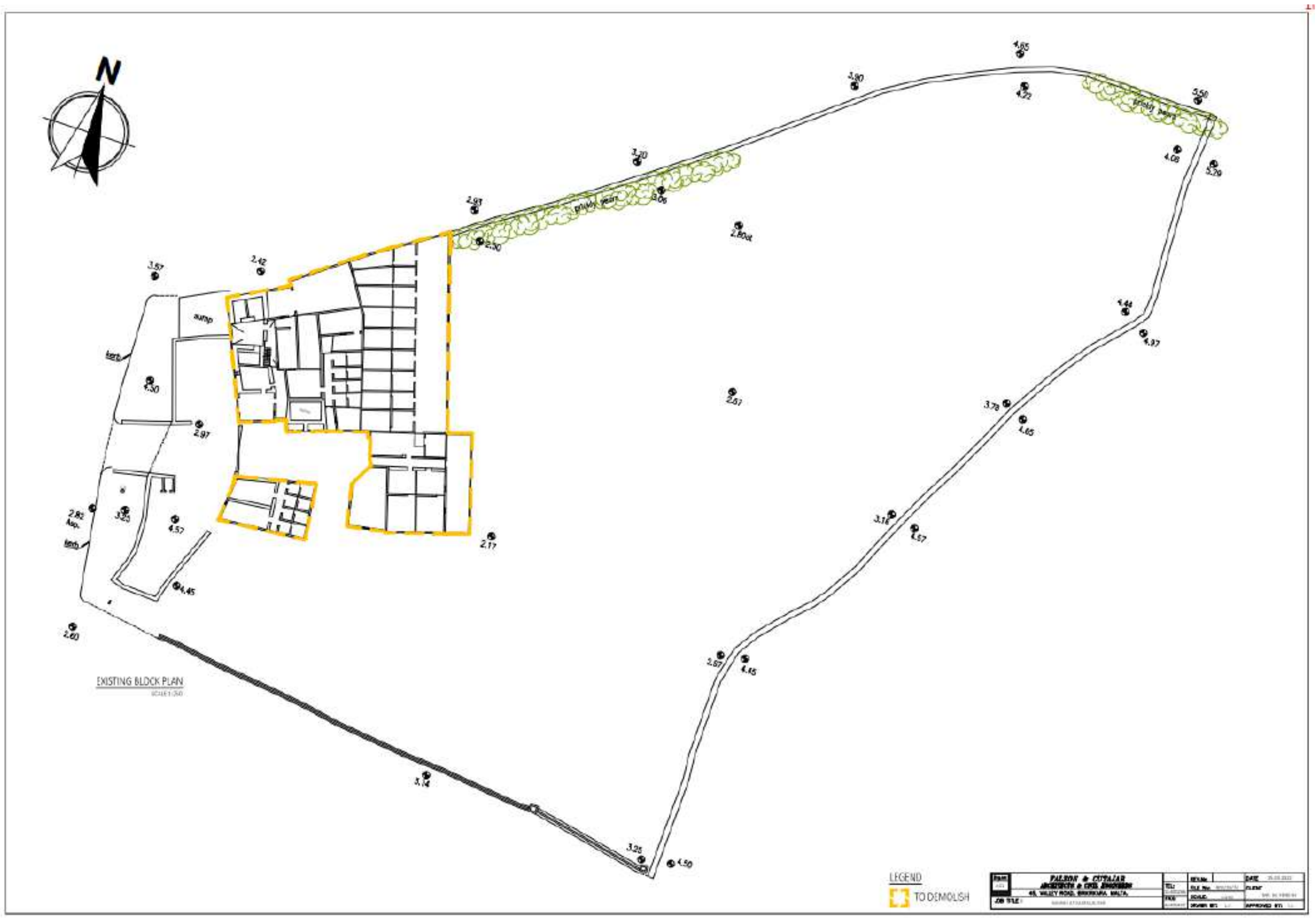


FIGURE 18: SITE PLAN AS EXISTING SHOWING LOCATION OF SUMP NEAR SITE DESIGNATED FOR PROPOSED DEVELOPMENT (PA/03071/22)

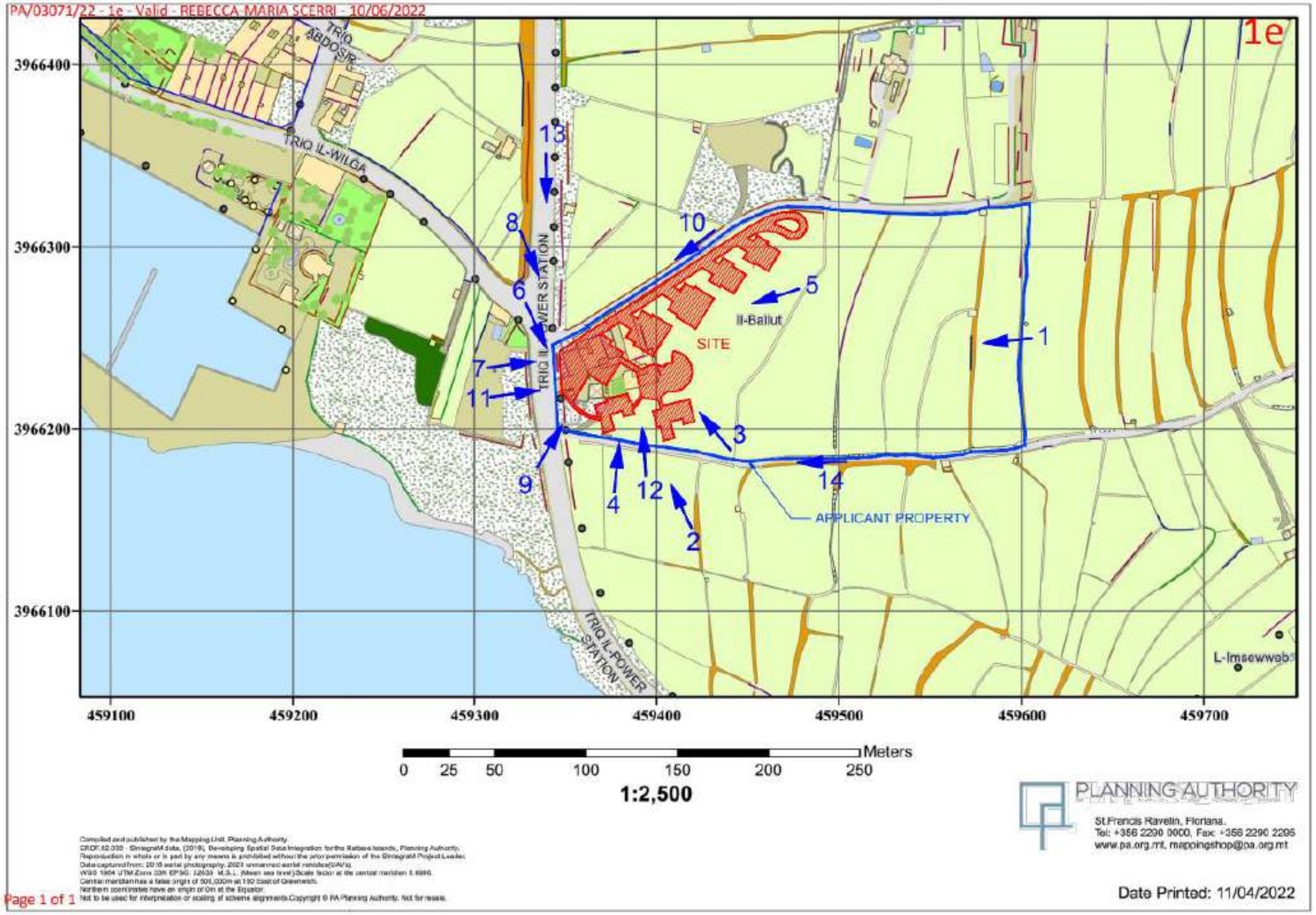


FIGURE 19: SITE PLAN OF PROPOSED DEVELOPMENT (PA/03071/22)[20]

1.1.5 Current Threats

Various threats have been identified to exert considerable pressure on the ecology of the site. As reported in the 2nd Water Catchment Management Plan for the Malta Water Catchment District 2015-20215, in terms of chemical quality, the one-time monitoring indicated that the water quality matrix is in good quality whilst the sediment matrix exceeded guideline ecotoxicological threshold values for a number of chemical substances. There is considerable evidence that coastal erosion is one of the major threats to maintaining the saltmarsh's spatial and ecological properties. Further degradation inflicted on the area through erosion may result in major and irreparable change in the site's hydrological regime, subsequently the fragile vegetation communities thriving within the area.

Coastal ecosystems have a very delicate natural equilibrium, and are thus sensitive to both natural and anthropogenic disturbances. The human impacts and threats outside the management area are also important since these could have direct or indirect impacts on the site in question. Such natural and anthropogenic pressures identified within this particular site include coastal erosion and potential negative agricultural practices within the site such as improper use of irrigation, pesticides and fertilisers.

Other potentially threatening factors[2] include the presence of:

- Illegal hunting activities;
- Dumping and littering;
- Trampling including off-roading;
- Alien plant species such as *Ricinus communis* (Castor Oil Tree) and
- Contaminated runoff from nearby roads and agricultural dwellings.

Although the majority of the aforementioned factors affecting the area are currently being monitored and addressed, a certain level of habitat degradation is still present on site, suggesting that more effort is required to ensure a healthy ecosystem at Il-Ballut ta' Marsaxlokk.

1.2 LEGISLATIVE BACKGROUND

The project aims to achieve the requirements of four main EU policies, namely the WATER FRAMEWORK DIRECTIVE 2000/60EC and the HABITATS DIRECTIVE 92/43/EEC.

1.2.1 Water Framework Directive

The legal framework for the protection and restoration of all types of waters, be it surface water or a groundwater body is known as the WATER FRAMEWORK DIRECTIVE (WFD) (2000/60/EC). The WFD has been transposed into Maltese legislation under the ENVIRONMENT PROTECTION ACT (Chapter 435) and the MALTA RESOURCES AUTHORITY ACT (Chapter 423) through the WATER POLICY FRAMEWORK REGULATIONS (S.L. 549.100), which entered into force on 23rd October, 2015.

The WFD and other European and regional environmental agreements provide a framework for a coherent approach to the sustainable protection, use and management of inland and transitional water resources. The EU's current approach is to integrate various water policies with the adoption of an ecosystem-based management framework for human activities in such water bodies[5].

Since Malta has no rivers, Malta has drafted the WATER CATCHMENT MANAGEMENT PLAN (WCMP), which integrates the Maltese Islands into one water catchment district under Article 3 of the WFD (regulation 13 of S.L. 549.100). The first version of the WCMP for the Maltese Islands was published in March 2011.

The WFD aims for the achievement of good status in continental, transitional and coastal waters by 2015 (later amended to 2021). To assess the status under this Directive, many methods have been developed.[6] The European Environment Agency published the global status of the European waters in 2012 and most recently in 2018, demonstrating that the EU is still far from achieving good ecological status in all water bodies[7,8].

1.2.1.1 Common Implementation Strategy for the Water Framework Directive (2000/60/EC) Guidance Document No 5 Transitional and Coastal Waters – Typology, Reference Conditions and Classification Systems

Under the WFD, transitional waters are defined as "*bodies of surface water in the vicinity of river mouths which are partly saline in character as a result of their proximity to coastal waters but which are substantially influenced by freshwater flows*". According to the 2nd WCMP, local transitional waters are categorised as surface water bodies, along with watercourses, ponds and coastal waters. Locally, five water bodies have been designated as transitional waters. These are Is-Salini, Il-Magħluq ta' Marsascala, Il-Ballut ta' Marsaxlokk, Is-Simar and L-Għadira[5].

---

[5] Apitz, S. E., Elliott, M. Fountain, M., Galloway, T. S. (2006). European Environmental Management: Moving to an Ecosystem Approach. Integrated Environmental Assessment and Management, 2: 80-85.

[6] Birk, S., Bonne, W., Borja, A., Brucet, S., Courrat, A., Poikane, S., Solimini, A., van de Bund, W., Zampoukas, N., Hering, D. (2012). Three hundred ways to assess Europe's surface waters: An almost complete overview of biological methods to implement the Water Framework Directive. Ecological Indicators, 18: 31-41.

[7] EEA (2012). European waters - assessment of status and pressures.

[8] EEA (2018). European waters - assessment of status and pressures.

Under the provisions of the WFD, transitional waters are further divided into sub-types which are defined using either 'system A' or 'system B'. The Directive does not prescribe a scientific methodology as to how Member States should type their surface waters[9]. In system A, a water body is assigned to an ecoregion which includes the Baltic Sea, Barents Sea, Norwegian Sea, North Sea, North Atlantic Ocean and Mediterranean Sea. The relevant ecoregion is then described using physical characteristics such as latitude, longitude, tidal range and salinity which are obligatory factors as well as optional factors including depth, current velocity, wave exposure, residence time, mean water temperature, mixing characteristics, turbidity, mean substratum composition, shape and water temperature range. In system B, obligatory factors including longitude and latitude, tidal range and salinity and optional factors including exposure to waves, mean water temperature range, current velocity, mixing characteristics, turbidity, retention time, mean substratum composition are used[5].

The aforementioned physical descriptors were not applicable to Malta's transitional water bodies due to their inherently small size, absence of rivers, restricted connection to the sea and limited data on physico-chemical characteristics. Therefore, alternative means of characterisation were adopted which were based on (i) hydrographical characteristics; the water bodies' location at the mouth of catchment areas and vicinity to the open sea and (i) physico-chemical characteristics; mainly salinity and water temperature[10].

To assess the ecological quality of a water body, a reference condition for that water body must be established. The reference condition is a description of the biological quality elements (phytoplankton, macroalgae, angiosperms, benthic invertebrate fauna and fish fauna) that exist, or would exist, at high status which are consistent with little to no anthropogenic disturbance.

Four methods have been identified by the WFD to determine reference conditions. The first method involves using an existing site which is considered to be undisturbed or bears minor disturbance. The second method is the usage of historical data or information. The third method involves the use of modelling techniques which utilise data on the historical and palaeological aspects of the water body to derive reference conditions. Lastly, the fourth method is based on expert judgement which makes use of knowledge on ideal conditions which would best support the BQEs at high status.

The status of the biological quality elements and the supporting hydromorphological and physico-chemical quality elements is the prerequisite to the classification of ecological status of a water body. Ecological status is classified as high status if the biological quality elements meet reference condition values and the physico-chemical and hydromorphological conditions meet high status. To achieve good status, only slight deviations in estimated values for BQEs from reference condition values are required. Moreover, if physico-chemical conditions ensure ecosystem functioning and meet the ecological quality standards for specific pollutants and if hydromorphological conditions do not meet high status, a water body is classified as good status. Moderate, poor and bad status of a water body is determined by the degree of deviation of BQEs from reference conditions. For a water body to be

---

[9] Common Implementation Strategy for the Water Framework Directive (2000/60/EC) Guidance Document No 5 Transitional and Coastal Waters – Typology, Reference Conditions and Classification Systems.

[10] Sustainable Energy and Water Conservation Unit Environment and Resources Authority. (2016). The 2nd Water Catchment Management Plan for the Malta Water Catchment District 2015 - 2021.

classified as moderate status, the deviation must be moderate, for poor status, the deviation must be major and for bad status, the deviation must be to a greater extent than for poor status.

1.2.1.2 Common Implementation Strategy for the Water Framework Directive (2000/60/EC Guidance Document No 12 Horizontal Guidance on the Role of Wetlands in the Water Framework Directive

The WFD does not define wetlands or provide a size range to indicate their dimension nor does it set obligations or recommendations for wetlands or other terrestrial ecosystems. However, the Directive recognises wetlands as important ecosystems associated with aquatic systems in that the former are directly dependent on the latter. A list of supplementary measures under Part B of Annex VI of the Directive includes the objective for Member States of recreating and restoring wetland areas.

Several types of ecosystems may be present along a river basin which may be relevant to the achievement of the Directive's objectives. Such ecosystems may be directly associated with wetlands and achievement of the Directives objectives and may therefore be pertinent to wetland ecosystems. These include:

(i) Surface water bodies (river, lake, transitional and coastal waters),
   a. Wetland ecosystems identified as water bodies
   b. Riparian, shore, and intertidal zone quality elements of surface water bodies,
(ii) Terrestrial ecosystems directly depending on groundwater bodies,
(iii) Small elements of surface water connected to water bodies but not identified as water bodies and
(iv) Ecosystems significantly influencing the quality and quantity of water reaching surface water bodies, or surface waters connected to surface water bodies

Under Article 6 of the WFD, by 22nd December 2004, Member States were to establish registers of Protected Areas, some of which may include wetland habitats within the Natura 2000 network which qualify under WFD criteria. Such criteria include habitats comprising surface water or occur within surface water and habitats which depend on frequent inundation, or on the level of groundwater.

To identify whether water bodies are at risk of failing their WFD objectives, Member States are required to take action through an impacts and pressures analysis as required by the WFD. This is also relevant to wetland habitats and includes a number of objectives. These include preventing deterioration and protecting, enhancing or restoring the hydro-morphological condition of water bodies at high status (including the condition of any wetlands in the riparian, lakeshore or intertidal zones) as well as of artificial and heavily modified water bodies. Member States must also comply with the standards and objectives for Protected Areas and for wetlands included within the Natura 2000 network, identified in order to implement the Habitats and Birds Directive by 2015 at the latest. To meet such objectives several driver/pressure/ impact (DPI) relationships would require understanding. These are outlined in Table 10 of the CIS Guidance Document no 12.

Member States are required to establish a Programme of Measures (PoM) under Article 11 of the WFD in order to achieve the objectives stated under Article 4. As part of the PoM, wetland creation, restoration and management, may prove a cost-effective and socially acceptable mechanism for helping to achieve the environmental objectives of the Directive. Each programme of measures must include 'basic' measures and 'supplementary' measures which may include actions associated with safeguarding wetland habitats. For basic measures, direct action towards the protection of wetlands may be relevant when a wetland is a terrestrial ecosystem that is directly dependent on groundwater, a waterbody such as a river, lake, transitional or coastal water body, is part of a hydromorphological quality element of a surface water body or if the wetland is a Natura 2000 Protected Area. The supplementary measures comprise a list of measures wherein the recreation and restoration of wetland areas is specified.

Wetland habitats across the Maltese islands are scarce. Two types of wetlands can be distinguished. These are coastal wetlands and inland wetlands. All local transitional water bodies comprise coastal wetland habitats, including il-Ballut ta’ Marsaxlokk. Other coastal wetlands include L-Għadira s-Safra as well as Il-Qala ta' Santa Marija located on the island of Comino. Inland wetlands include Baħrija Valley System and Wied il-Luq in Malta and Il-Qattara, L-Għadira ta' Sarraflu, Wied tal-Lunzjata and Wied tax-Xlendi in Gozo.

1.2.1.3 Common Implementation Strategy for the Water Framework Directive (2000/60/EC) Guidance Document No 4 Identification and Designation of Heavily Modified and Artificial Water Bodies

A water body is designated as a Heavily Modified Water Body (HMWB) through a series of steps. A water body is first identified as a body of surface water in accordance to the definition under the WFD. This step is applicable to any discrete body of water such as a lake, a reservoir, a stream, river or canal, part of a stream, river or canal, a transitional water or a stretch of coastal water.

In the subsequent step of the designation process, a distinction is made between a HMWB and an Artificial Water Body (AWB). The distinction is based on the definitions of the respective water body under the WFD. A water body is considered artificial if it was created by human activity. On the other hand, if a water body has been modified by anthropogenic physical alterations and is substantially changed in character, that water body is considered to be heavily modified.

A water body which does not match the description of an artificial water body undergoes a screening stage. During this stage, water bodies which are unlikely to achieve GES but show no hydromorphological changes are screened out. Conversely, those water bodies which have undergone hydromorphological changes are distinguished and a description of such changes are provided and further investigated. Changes in hydromorphology are investigated by identifying the anthropogenic pressures imposed on the surface water body in question. Such pressures may include water abstraction, impacts on water flow regulation, significant changes in water body morphology as well as any land use patterns. In addition to these pressures, other pressures may affect a waterbody, although these do not contribute to changes in hydromorphology. Such pressures include point or diffuse sources of pollution originating from urban, industrial, agricultural and other installations and activities.

The consequent impacts of these pressures on the surface water body are assessed based on the likelihood of that water body to fail to achieve the environmental quality objectives set out in the WFD. These include preventing the deterioration of water body status, achievement of good surface water status and progressively reducing or phasing out polluting substances, emissions and discharges. If meeting these environmental quality objectives, and hence achieving good ecological status is unlikely for the surface water body, the water body is assessed to identify any significant hydromorphological changes, which if identified, provisionally designates the water body as a HMWB.

Provisional designation is based on undertaking an analysis of part or all of a river basin district, reviewing the impacts of human activities on surface water status and economic analysis of water use of the river basin district. The surface water body within the river basin district is then provisionally identified as a heavily modified surface water body. Moreover, the surface water body must undergo a designation test which determines whether hydromorphological changes necessary for the water body to achieve GES would adversely affect the wider environment, navigation, water storage activities, water regulation flood protection, land drainage, or other equally important sustainable human development activities. If the wider environment and other specific uses would be affected by hydromorphological changes, and there are no other means to achieve the beneficial objectives served by the modifications of the HMWB which are a significantly better environmental option, technically feasible and not disproportionately costly, then the surface water body is designated as a HMWB. The Maximum Ecological Potential (MEP) and the Good Ecological Potential (GEP) for that HMWB must then be established and GEP must be achieved.

According to the 2nd Water Catchment Management Plan (WCMP), Il-Ballut ta Marsaxlokk is designated as a Heavily Modified Water Body (HMWB) as it has undergone numerous physical alterations by human activity. The area was developed into fishponds which were dredged in the 1950s to permit the construction of a quay. In the 1990s, habitat engineering works were undertaken to create a marshland habitat. Further excavation works rendered more pools within the area and culverts were also laid to connect the marsh to the sea. However, this connection has been lost in recent years due to a blockage within the culverts[6,11]. However, through the present work, designation of il-Ballut ta' Marsaxlokk as a HMWB will be reassessed due to potential alternative designation as an AWB.

The water body has therefore undergone substantial changes in morphology and hydrology from its pristine state and is likely to fail good ecological status (GES) due to changes in hydromorphology. Rather than achieving GES, the environmental objective for such a water body is good ecological potential (GEP). GEP is a less stringent objective than GES because it makes allowances or slight changes from the maximum ecological potential (MEP) for the ecological impacts resulting from those physical alterations that (i) are necessary to support a specified use or (ii) must be maintained to avoid adverse effects on the wider environment. The MEP is the state where the biological status reflects, as far as possible, that of the closest comparable surface water body taking into account the modified characteristics of the water body[7].

Establishment of GEP for HMWBs is principally based on the biological quality elements (derived from MEP). Therefore, the hydromorphological conditions at GEP and the values for the general physico-chemical quality elements at GEP must be such as to support the achievement of the GEP biological

---

[11] Common Implementation Strategy for the Water Framework Directive (2000/60/EC): Guidance Document No 4 - Identification and Designation of Heavily Modified and Artificial Water Bodies. Luxembourg: Office for Official Publications of the European Communities.

values. The values for the general physicochemical quality elements at GEP are such as to ensure the functioning of the ecosystem.

When a HMWB is likely to fail to achieve GEP, Member States must establish a programme of measures to improve the ecological potential of a water body. The programme of measures is based on knowledge and judgement of how measures will improve the ecological potential of the water body[7].

1.2.1.4 Common Implementation Strategy for the Water Framework Directive (2000/60/EC Guidance Document No. 37 Steps for defining and assessing ecological potential for improving comparability of Heavily Modified Water Bodies

Under the WFD, Member States are required to frequently monitor water bodies with significant hydromorphological pressures using the pertinent quality elements. To achieve the environmental objective of GEP, the ecological conditions of HMWBs must be monitored and assessed. Changes in the hydromorphology of a water body are considered to be the predominant causes for failure to achieve GES in water bodies due to consequent changes in the structure and function of the aquatic ecosystem. Hydromorphological alterations may disrupt the ecological continuum. This is the flow of energy, material, and organisms within the aquatic ecosystem[12].

As supporting elements to biological quality elements (BQEs), the effects of potential mitigation measures of hydromorphological elements on BQEs sensitive to hydromorphological changes must be predicted through assessment methods. If monitoring results (of BQEs or of supporting quality elements as proxy) show that the ecological potential is moderate or lower, mitigation measures must be implemented to achieve GEP[8].

GEP has to be defined by linking biological, hydromorphological and physico-chemical conditions. Ecological potential can be defined using the CIS reference approach or the mitigation measures approach (also called the Prague method). The former approach is based on BQEs and GEP is defined as only slight changes from BQEs at MEP which are expected to be achieved following implementation of all mitigation measures related to hydromorphological alterations. In, the latter approach, GEP is defined using the remaining identified mitigation measures which were not excluded as a result of delivering only slight ecological improvement. MEP is defined in the same way as the reference approach[8].

The best approximation of ecological continuum is a key aspect of ecological potential. Achieving ecological continuum ensures that the habitats for type-specific aquatic species are interconnected in space and time so that the species can fulfil their life cycles in self-sustaining populations and therefore takes into consideration any obstacles which hinder migration of biota, sediment and water. GEP can only be achieved by a water body if the best approximation to ecological continuum is achieved and this is a requirement that must be ensured by the MEP[8].

---

[12] Guidance No 37 - Steps for defining and assessing ecological potential for improving comparability of Heavily Modified Water Bodies

1.2.2 Directive 92/43/EEC (Habitats Directive)

The HABITATS DIRECTIVE (COUNCIL DIRECTIVE 92/43/EEC) provides a framework for the conservation of natural habitats and of wild fauna and flora in EU Member States. This Directive, which entered into force on 21st May, 1992, was transposed into Maltese legislation through the Flora, Fauna and Natural Habitats Protection Regulations, 2006 (S.L. 549.44). Article 2 states that the Directive aims to "contribute towards ensuring bio-diversity through the conservation of natural habitats and of wild fauna and flora in the European territory of the Member States." The Directive allows the competent authorities from each member state to set up a coherent European Ecological Network of special areas of conservation, established under the title of Natura 2000 sites. EU Member States need to take all the necessary measures to maintain the population of these species at a Favourable Conservation Status (FCS), as defined in Article 1 (i) of the Habitats Directive[13].

Various Maltese terrestrial sites have been designated as Natura 2000 protected areas (vide Figure 21) under the Habitats Directive and Birds Directive 2009/147/EC, and/or are scheduled under national legislation. These regulations provide for the implementation of related nature Multilateral European Agreements, such as the Convention on Biological Diversity and the Bern Convention. Malta has delineated ten inland water bodies for the purpose of the WFD, nine of which are also protected as Natura 2000 sites under the Natura 2000 framework.

The site in question (Il-Ballut ta' Marsaxlokk), is classified as a Natura 2000 site (MT0000014). The site encompasses 4 types of Annex I habitats (Habitats 1310, 1410, 1420 and 92D0), and a number of Annex IV species amongst which four invertebrates are listed in the Red Data Book. The site also has its own Natura 2000 Management Plan which stipulates the necessary actions required to sustainably manage the site through a number of objectives and management measures.

The HABITATS DIRECTIVE aims to achieve or maintain the Favourable Conservation Status based on the following parameters: range, population, habitat for species and the future prospects. The conservation status of species listed in the HABITATS DIRECTIVE will be achieved when: population dynamics data on the species concerned show that it is maintaining itself on a long-term basis as a feasible component of its natural habitat; the natural range of the species is not being reduced or likely not to be reduced in foreseeable future; there is a sufficiently large habitat to maintain its population in the long-term.

While the conservation value of such an inland transitional water body is undisputed, there are significant knowledge gaps as to how hydromorphological dynamics may affect the ecology of the site.

[13] EU Habitats Directive 92/43/EEC: https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:31992L0043

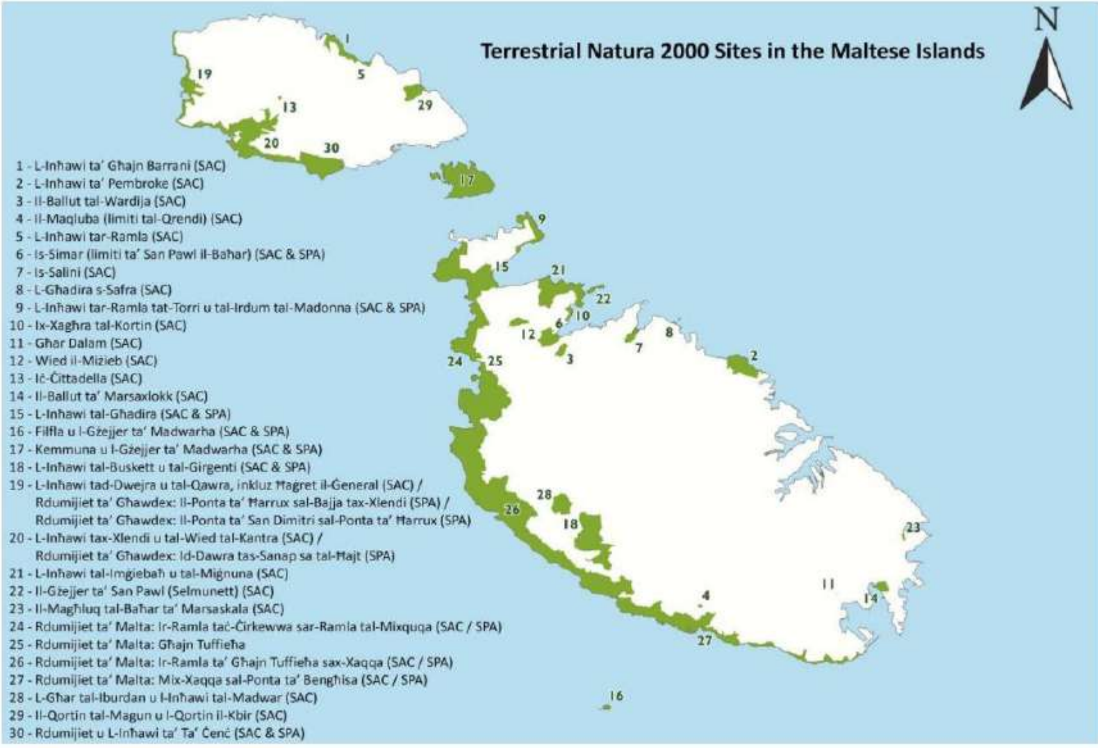


FIGURE 21: TERRESTRIAL NATURA 2000 SITES (ERA WEBSITE)[14]

1.2.2.1 Vision, Management Objectives and Operational Objectives

The Natura 2000 Management Plan for Il-Ballut ta' Marsaxlokk highlights a vision for the site, management objectives to achieve this vision and operational objectives to achieve these management objectives.

The vision for this site involves sustaining all natural habitats, native flora and wildlife. The corresponding management objectives to achieve this vision involve increasing the areas of Habitats 1310, 1410, and 1420 and ensuring that their structures and functions are improved. To achieve such management objectives, the operational objectives include undertaking annual inspections to monitor the size, structure and function of these habitats.

Another component of the vision involves expansion and self-sustainability of the wetland and removal of any disturbances. Through the management objectives, the wetland is to be extended into the adjacent land, invasive and non-native plan species will be controlled and the possibilities for the reestablishment of the natural hydrological regime within the marshland are to be investigated. To achieve these objectives, operational objectives involve investigating possibilities of utilizing the adjacent land for wetland expansion, elaborate a restoration study, implement any required technical works and monitor the new habitat trends, plan, implement and monitor an alien plant eradication programme and elaborate an assessment study of the status of the hydrological regime within the marsh land and examine trends and alternative solutions.

[14] https://era.org.mt/en/Pages/Natura-2000-Management-Planning.aspx

To protect the site against coastal erosion, action must be taken to halt and reverse this process through appropriate studies to identify interventions and implement the recommendations of such studies.

To improve the visual amenity of the site, eyesores are to be removed to ensure the maintenance of a pleasant natural scene and where relevant restore the area to its natural state. This can be done by carrying out regular clean-ups and maintain infrastructure.

The Management Plan envisions that the site serves the Local Council and the village of Marsaxlokk as an important educational, demonstration and research centre. Public awareness has increased and Il-Ballut is appreciated by the general public in local and national level. This can be done by promoting the educational, demonstrative and scientific value of the site to its maximum potential by linking research needs of the site with educational activities with the university and schools and the general public. The appropriate access control and visitor infrastructure/facilities are to be designed, constructed and installed to achieve such objectives. Public awareness must also be raised amongst target groups and the general public through signage and organising of public events.

Lastly, the Management Plan establishes various measures which safeguard the site's protection as implemented by various national legislation and local policies. This is done by ensuring that no significant negative impacts to the site result from the operation of activities within and outside of the site. To achieve this management objective, the corresponding operational objectives include the enforcement of environmental compliance in operating establishments, patrolling of the site, lobbying with involved local users and stakeholders associations and safeguarding the integrity of Annex I habitats from urban development or other land interventions including infrastructure.

1.2.2.2 Reporting guidance under Article 17 of the Habitats Directive in relation to the parameters to be used for assessment purposes

Under Annex B (for species) and Annex D (for habitats) of Article 17, Member States are to report all species listed in Annex II, IV and V of the HABITATS DIRECTIVE as well as all habitats listed in Annex I including their distribution, range, approximate population size (for species), surface area covered (for habitats) and any other relevant information. No Annex II or Annex V species are known at Il-Ballut ta' Marsaxlokk. However, several Annex IV species have been documented on site, four of which are Red Data Book invertebrates. A list of pressures and threats and their ranking of impact must be provided for each species and habitat. The impact should reflect the influence of a pressure or threat on conservation status of the species.

An understanding of the hydrological regime may reveal potential impacts on biological communities. Surface run-off from the surrounding catchment area may convey pesticides from agricultural activity to the pools of the salt marsh, rendering them as sinks for pollutants and hence reducing water quality. Moreover, the resultant nutrient loading coupled with the lack of water circulation as a consequence of impedance of seawater flow to the salt marsh may provide suitable conditions for eutrophication. Soil analysis may infer soil characteristics and the ability to support vegetation habitats within il-Ballut ta' Marsaxlokk.

Macrophytic vegetation communities exhibit seasonal variation as a result of water availability. During the dry season, the flood plain becomes colonised by *Salicornia patula*. However, quasi-perennial and perennial species also occur within the saline marshland, some species of which become partially submerged in the pools during the wet season. Therefore, depth variation may influence vegetation composition.

The status of the structure and functions of habitats, ‘good’, ‘not good’ and ‘unknown’ must be specified for different areas (km^2) within each habitat. The typical species of the habitat which occur regularly are reported as they are used to assess whether a habitat is at Favourable Conservation Status. The choice of species should not be restricted to the species listed in Annexes II, IV and V of the Habitats Directive.

Conservation measures and the necessary management plans are to be implemented by Member States to maintain or to restore the species and habitats at Favourable Conservation Status. Despite being primarily aimed at Annex II species, Member States may also apply conservation measures for Annex IV species. Measures include maintaining the current range, population and/or habitat (for species) and surface area or structure and functions including typical species (for habitats), expanding the current range of the species/habitat, increasing size and/or improve population dynamics and restoring the habitat (for species) or increase the surface area of the habitat type and restoring the structure and functions (for habitats). The location of the measures must also be indicated; whether within the Natura 2000 site, within and outside or only outside the site. Medium-term results (2019-2030) or long-term results (after 2030) are to be chosen to provide an estimate on when the measures will be implemented to neutralise the pressures.

At the end of the reporting period, the conservation status is designated to four criteria, these being range, population/area, habitat for the species, specific structure and functions including typical species (for habitats), future prospects and the overall assessment of conservation status. The four categories of conservation status are: ‘favourable’ (FV), ‘unfavourable-inadequate’ (U1), ‘unfavourable-bad’ (U2) and ‘unknown’ (XX). If the overall assessment of conservation status reported in the overall assessment of conservation status is ‘favourable’, ‘inadequate’ or ‘bad’, the trend of parameters for range, population and habitat for the species can be indicated as either improving, deteriorating, stable or unknown.

2 METHODOLOGY

2.1 FIELD PARAMETERS

Rainfall monitoring for the entire study period (September 2021 to May 2022) was carried out by installing a rain gauge on site as well as referencing local climate records from the Benghisa Weather Station belonging to the Malta International Airport. “Spring” discharge at the salt marsh can be seen as a final result of various processes that govern the conversion of precipitation and other water contributions into a single output at the salt marsh.

Water volume estimates in the salt marsh were obtained on a weekly basis as well as following a precipitation and/or storm event. For the purpose of water level measurement, a white pole was inserted in the salt marsh close to Pool No 1. on 3 November 2021 (Figure 22). At that time the saltmarsh was flooded and water level was at its highest. It was therefore placed at an accessible point which could be measured regularly. This enabled the calculation of volume recharge estimates through rainfall and/or storm wave events as well as discharge into the underlying Quaternary deposits and volume loss during fine weather. Loss through evapotranspiration was estimated using the Thorntwaite-Mather Equation.

FIGURE 22: PHOTOGRAPH SHOWING WHITE POLE USED TO MEASURE WATER LEVEL IN THE SALT MARSH

For this purpose, a structure contour map of the salt marsh basin with a 50cm contour interval was required as shown in Figure 23. This was constructed from the LIDAR map data available at ERA Information Centre. Preliminary LIDAR data analysis show that the maximum depth of the basin is less than 1m.

Two piezometers in the form of a standpipe were installed on 28th March 2022 to measure groundwater levels *in situ* during storm events to monitor any difference in the underlying water table from that in the salt marsh. Water levels were measured using an "In-Situ Inc." (Figure 24) water level measuring tape equipped with a buzzer and a lamp which switches on when the top of the water table is reached. The meter was also equipped with a thermometer and a conductivity meter.

FIGURE 23: CONTOUR MAP OF THE SALTMARSH DERIVED FROM LIDAR DATA (SOURCE: ERA)

FIGURE 24: WATER LEVEL METER FROM IN-SITU INC

The location where these piezometers were installed is shown in Figure 25. Installation of the piezometers involved drilling a case hole 1.5m deep and 75mm wide. Subsequently, a 35mm diameter, 2m long perforated plastic pipe was installed for 0.5m to 1m at the bottom end. The hole was filled with clean sand up to 1m from the bottom. The remaining top segment of the hole was sealed by filling it with bentonite. The casing was slowly and carefully withdrawn and the bentonite was left to settle before testing.

The sea water table level rises as a result of sea level rise due to impounding of water by south-easterly waves. Five private wells are present in the environs of the salt marsh (site plan shown in Figure 26). They do not appear to tap the Mean Sea Level aquifer. If this is the case and the wells permit accessibility, two samples may be tested for salinity.

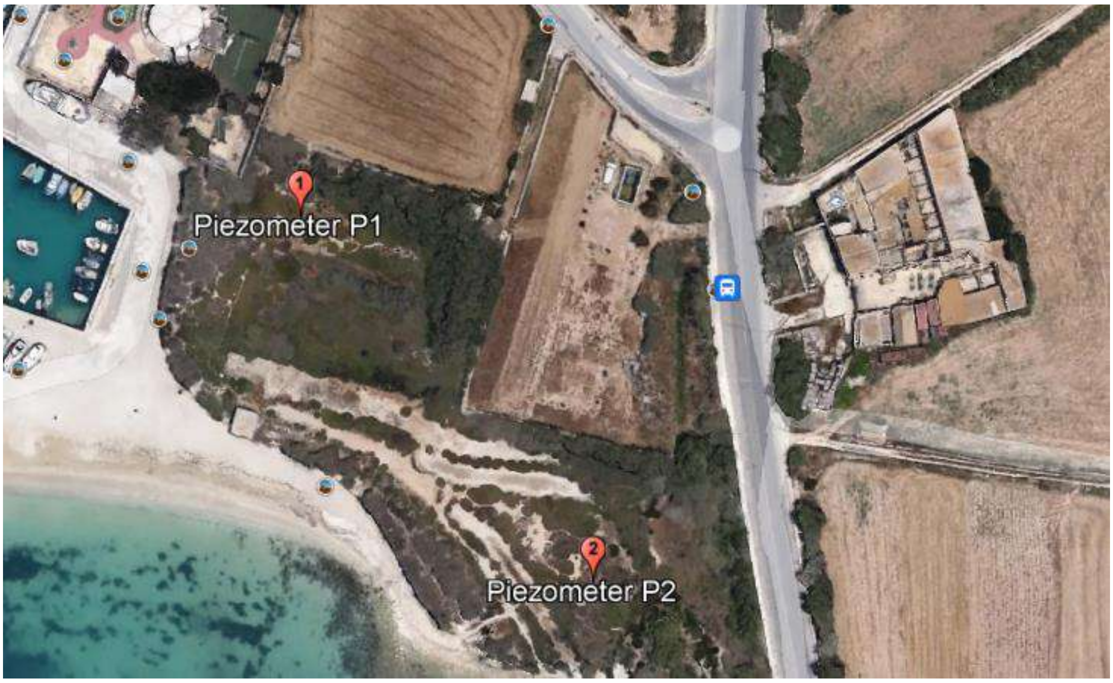


FIGURE 25: LOCATION OF THE TWO PIEZOMETERS INSTALLED IN THE SALTMARSH (SOURCE: GOOGLE EARTH)

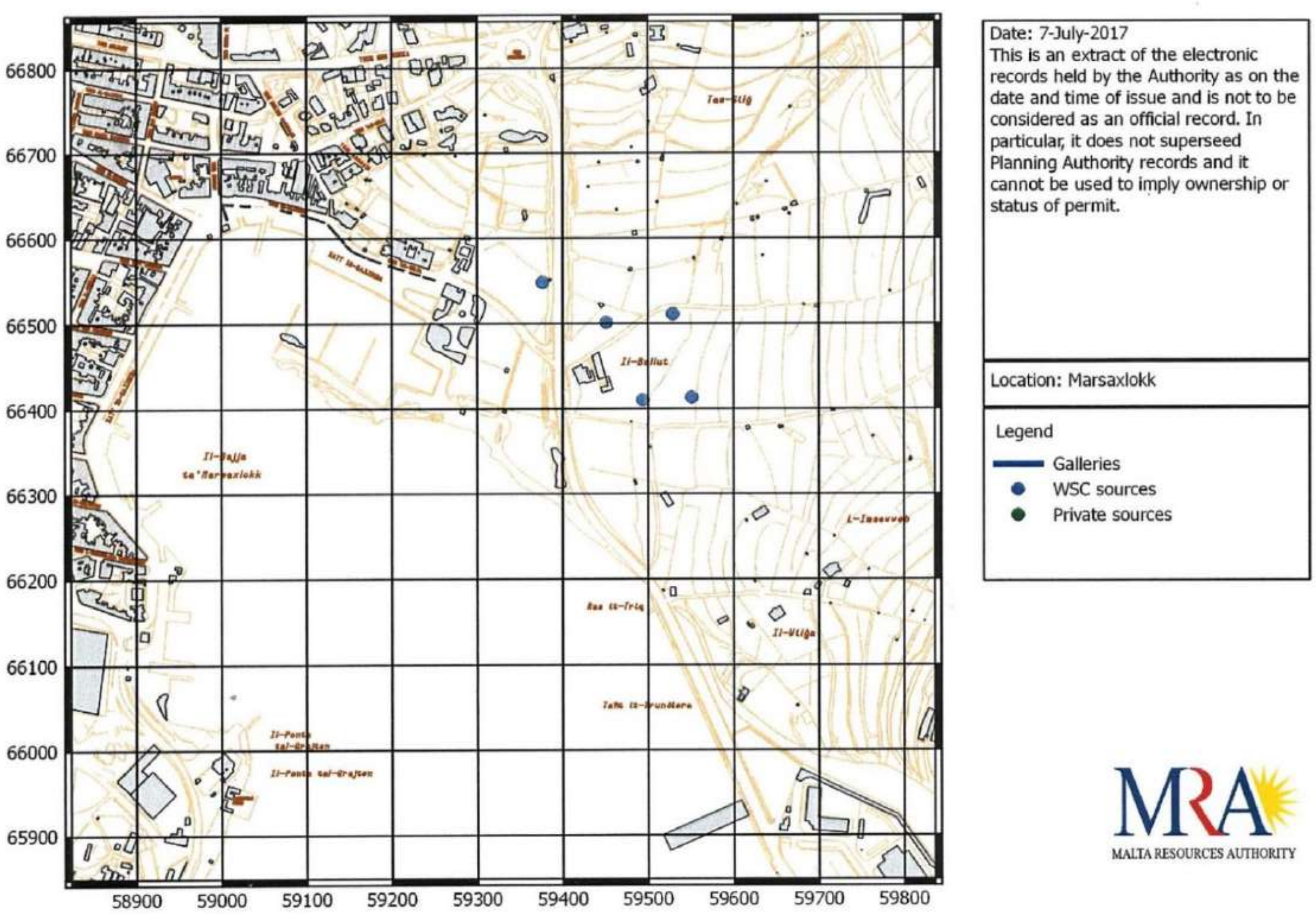


FIGURE 26: PRIVATE WELLS IN THE ENVIRONS OF THE SALT MARSH

Field soil sampling and testing was undertaken according to BS5930: 2015 using hand held tools for minimal disturbance of the site. Work inside the salt marsh tool place on dry ground found between the elongate water pools separated by low emergent ridges.

Soil analysis within the watershed provides data for the water budget analysis, a field reference of hydraulic conductivity for the shallow aquifer model as well as insight into aquifer recharge and storage capacity.

Soil composition, porosity, strata and conductivity were applied to provide a range of values for

- Soil field capacity,
- Root zone depth,
- Specific yield and
- Permeability and Saturated field hydraulic conductivity.

Potential aquifer storage depends on infiltration rate, storage capacity and the specific yield of the topsoil and weathered layer – the porous media.

Ground investigation involved:

- Field soil texture classification (sand, silt, and clay) by examination of a pit dug at the sampling location in the field take samples to confirm in the laboratory.
- Bulk density, water content and porosity. By soil sampling and lab testing - Determination of Water Absorption and Bulk Specific Gravity according to BS5930: 1999 and ISRM Sugg. Method
- In situ Permeability (hydraulic conductivity) tests by drilling a well to bedrock and installing a stand pipe or piezometer in accordance with BS5930:1999 PP48 – 55

RISING-OR FALLING head permeability tests were performed at six locations within the watershed to estimate field saturated hydraulic conductivity (K_{sat}) in order to analyse soil infiltration and aquifer recharge. The test is performed by installing a perforated tube inside a 75mm diameter borehole 2m deep surrounded by a sand filter 100cm deep and sealed with bentonite or similar material at the top.

A Rising Head permeability test is a soil permeability test in which the level of water in a borehole is reduced using a bailer and then the rate at which the water recovers is observed. Falling Head permeability test is conducted by rapidly raising the water level in the control well and subsequently measuring the falling water level with time.

In terms of the tests with a variable hydraulic head, the falling head test is generally considered the more convenient. In fact, since the rising head test implies an initial reduction of the hydraulic head at the bottom of the borehole in relation to the surrounding soil mass, hydraulic instability may occur in the vicinity of the hole, which would likely compromise the test results.

Figure 27 illustrates the conditions of the falling head test. Since this test is sometimes performed using piezometers, the diameter of the pipe, d, may differ from the diameter of the borehole section, D, where flow takes place. This is the situation illustrated in the figure. The field test consists in filling the stand pipe with water to say 100cm above the sand filter and measure the fall of the water level with time.

In the Hvorslev method, data are plotted on a semilog graph with ln [H(t = 0)/H(tj)] on the ordinate and time t on the abscissa. This should theoretically give a straight line.

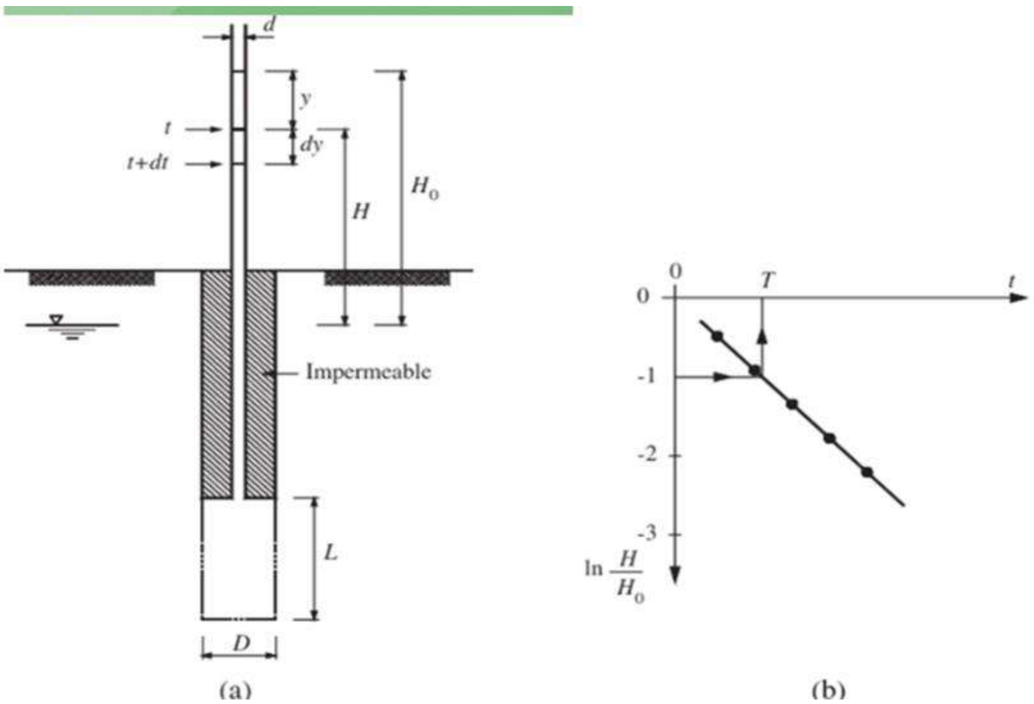


FIGURE 27: FALLING HEAD PERMEABILITY TEST: A) SCHEMATIC OF THE TEST SETUP; B) DIAGRAM FOR THE ESTIMATE OF FACTOR T (BASIC TIME LAG).

EQUATION 1: T = BASIC TIME LAG

$$T = -\frac{t}{\ln \frac{H_0}{H}}$$

Consequently, once T is known, the permeability coefficient can be obtained:

EQUATION 2: PERMEABILITY COEFFICIENT

$$k = \frac{\pi d^2}{4FT}$$

Taking D and L as the diameter and length, respectively, of the borehole (or piezometer) section in contact with the ground, the shape factor F is given by the following equation:

EQUATION 3: SHAPE FACTOR

$$F = \frac{2\pi L}{\ln\left[\frac{L}{D} + \sqrt{1+\left(\frac{L}{D}\right)^2}\right]}$$

Two of the six permeability tests were performed inside the salt marsh to measure the permeability of the salt marsh bed for an estimate of the loss of stored water to the underlying Quaternary deposits. This consisted of holes drilled for soil sampling testing in which rising head permeability tests shall be performed.

Field work as well as the laboratory tests performed on the soil samples recovered are summarised in Table 2 whereas the drilling and testing summary of the borehole locations is shown in Table 3. The locations for water level measurement and piezometer installation borehole locations within the salt marsh are shown in Figure 28. Figure 29 shows the proposed borehole locations whereas Figure 30 shows the final borehole locations within the catchment of the salt marsh.

Soil sampling from the proposed boreholes (P1 and P2) were located on the islands surrounding the pools and were carried out at the surface from 0cm to 10cm with limited disturbance for the first sample and at a depth of 30cm by drilling of the second sample. The piezometer was installed here. Further drilling was caried out down to a depth of 50 cm. Permeability was measured by the falling head method where the water table lied above the piezometer.

Soil sampling for boreholes located outside of the salt marsh (S1 to S6) (Figure 29) were carried out at the surface from 0cm to 10cm with limited disturbance for the first sample and at a depth of 30cm by drilling or digging for the second sample. The pit was excavated down to 75cm and the soil profile was described. Further drilling occurred to the top of the bedrock. Test points S1 to S5 are located in 3rd party property and permission was needed to gain access to the site.

Due to a number of issues, the borehole locations as depicted in Figure 29 needed to be revised. Originally, S1 and S2 were located in private property and required permission from the owner for access. Their location was subsequently changed as permission was sought from Mr Jeff Fenech of Santa Maria Farm to locate the sampling and testing points within his property. As the ground conditions at the Il-Ballut ta' Marsaxlokk were better understood, it was realised that the only potential aquifer that could recharge the salt marsh was represented by the Quaternary slope scree and valley fill. For this reason, sampling points S3 and S4 were moved further down the catchment to identify the arial extent of the aquifer. The Quaternary deposits are represented by valley fill. Sampling points S3 and S4 have revealed bedrock close to the surface implying that the Quaternary valley fill lies further west. Bedrock (Grey marl) can be seen at the southern end of the saltmarsh. Also, previous ground investigation has shown that at Il-Menqa bedrock lies at 6m below sea level. Therefore, the buried valley must be further north. Considering the lay of the land and the field tests and observations the Quaternary may be as shown on the map in Figure 31.

Furthermore, the S1-S6 represented points in private property. S5 and S6 had to be moved close to the road to Delimara as, apart from locations S1 to S4, it was not possible to find the owners of the land to request access to their property to undertake ground investigation, a task which often arouses suspicion. The site denoted as S7 was a measured section at an exposure of Middle Globigerina Limestone recently cut in connection with the reconstruction of the road leading to St Peter's Pool on the northeast coast of the Delimara Peninsula. Sampling points S7 and S8 were added after submission of the method statement, as measured sections from exposures are scarce in the catchment of the salt marsh. The site denoted as S8 was a measured section at an exposure of the saltmarsh soil profile at the coastline. A visual description was recorded but no sampling was undertaken at these two sampling points. The new locations of the boreholes are shown in Figure 30.

TABLE 2: FIELD AND LABORATORY TESTS FOR SOIL SAMPLES RECOVERED FROM BOREHOLES

BOREHOLE NUMBER	TEST TO BE UNDERTAKEN		RESULTS
	Field	**Laboratory Testing**	
P1 to P2	Undisturbed soil sampling Install piezometers 30cm below water level Rising Head permeability test	Sieve analysis Bulk density, Effective porosity	Soil Classification Monitor water levels Saturated hydraulic conductivity (K_{sat}) in order to analyse soil infiltration and aquifer recharge
S1 to S6	Soil Profile, Undisturbed soil sampling, Measure Depth to Root zone Measure Depth to bedrock	Sieve analysis Bulk density, Effective porosity *permeability*	Soil Classification Saturated hydraulic conductivity (K_{sat}) in order to analyze soil infiltration and aquifer recharge
S7 and S8	Additional control points		Measured sections only
Rain Gauge installed in the saltmarsh	Record Precipitation events	N/A	Fundamental data for the water cycle parameters such as infiltration, recharge, and evapotranspiration, Benghisa Metoffice weather station will act as a backup

TABLE 3: DRILLING AND TESTING SUMMARY

BOREHOLE NUMBER	DATE TESTED	GROUND LEVEL (M)	DEPTH TO BEDROCK (M)	TOTAL DEPTH (M)	REMARKS
P1	28/03/22		N/A	1.5	Installed Piezometer
P2	28/03/22		N/A	1.5	Installed Piezometer
S1	13/04/22		4.6	4.6	Installed Piezometer
S2	13/04/22	2.62	4.0	4.0	Installed Piezometer
S3	27/05/22		1.70	2.7	With rock coring but unable to recover core sample
S4	27/05/22		0.65	0.65	

BOREHOLE NUMBER	DATE TESTED	GROUND LEVEL (M)	DEPTH TO BEDROCK (M)	TOTAL DEPTH (M)	REMARKS
S5	27/05/22		0.0-0.40	0.4	Bedrock near surface. Upper Globigerina Limestone
S6	27/05/22	25.2	4.45	4.45	On field terrace Middle Globigerina Limestone
S7	27/05/22		0.40	0.4	Bedrock near surface. Middle Globigerina Limestone
S8	27/05/22	0.0 – 1.0			Saltmarsh section exposure at coastline

FIGURE 28: LOCATIONS FOR WATER LEVEL MEASUREMENT AND PIEZOMETER INSTALLATION WITHIN THE SALT MARSH. P= PIEZOMETER INSTALLED; W= WATER LEVEL MONITORING

FIGURE 29: PROPOSED BOREHOLE LOCATION PLAN SOIL SAMPLING IN THE SALTMARSH CATCHMENT. FOR VARIOUS REASONS, THESE BOREHOLE LOCATIONS WERE LATER MODIFIED

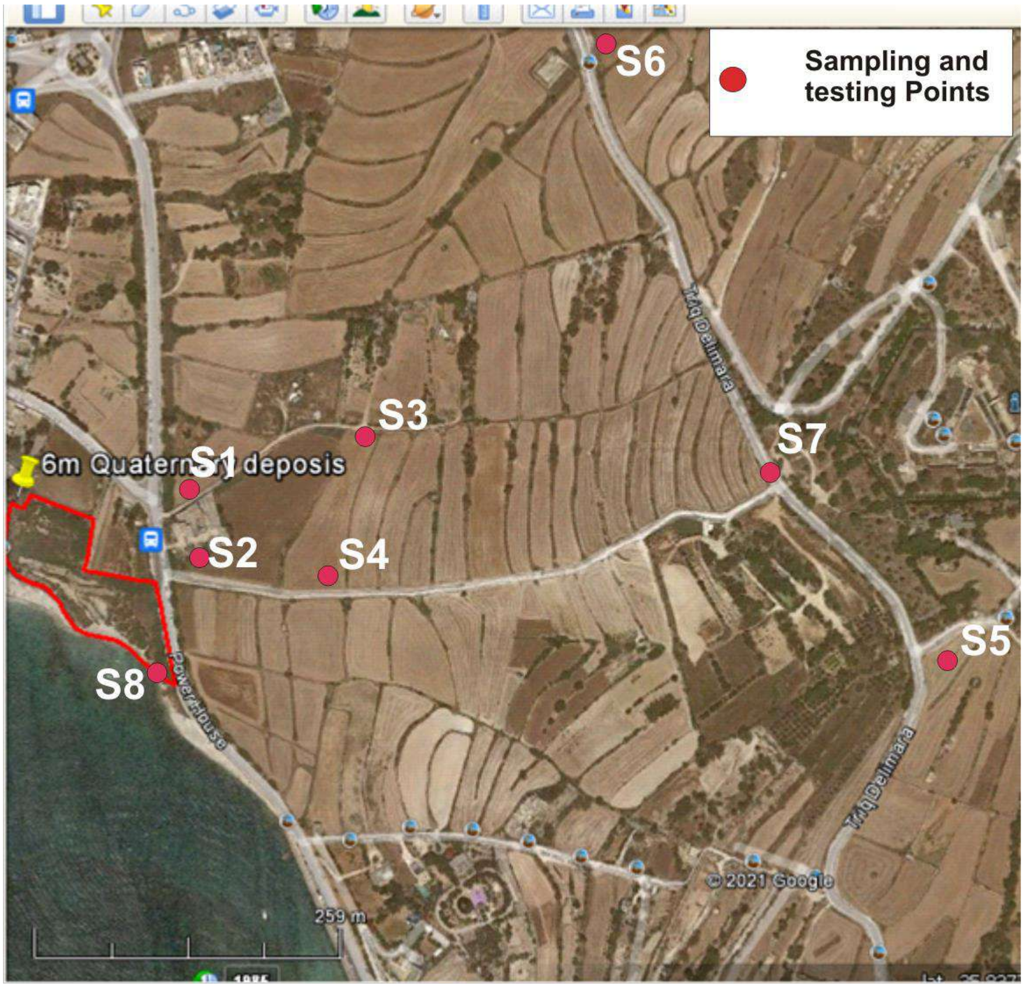


FIGURE 30: REVISED BOREHOLE LOCATIONS WITHIN THE CATCHMENT OF THE SALT MARSH, OUTSIDE THE SALT MARSH AREA

FIGURE 31: APPROXIMATE BOUNDARY OF THE QUATERNARY DEPOSITS (YELLOW LINE)

Soil density, porosity, specific yield and field capacity were estimated from soil samples and soil profile assessments to provide an improved approximation of aquifer recharge. Lab testing included:

- Grain size analyses using the ribboning method
- Bulk density
- Porosity
- Saturation
- Field capacity
- Specific yield

The Pond-Infiltration test was performed to estimate the saturated hydraulic conductivity (permeability) (K*sat*) of the flooded saltmarsh. This essentially gives the vertical hydraulic conductivity. The procedure consisted of forming a circular pond with a dike around and 400 cm in diameter. A circular shape is often preferred when compared to a rectangular one.

Water was added to the pond until a sufficient depth of the soil is fully soaked. Water was ponded and the rate of water fall was noted. Since the flow is almost entirely due to gravity, the hydraulic gradient will be unity and the hydraulic conductivity was calculated using Darcy’s law:

EQUATION 4: DARCY'S LAW

From Darcy's law

$$V = K_T \frac{\phi + Z + h}{Z} \qquad (18.8)$$

where, V = infiltration rate (cm/s),
K_T = hydraulic conductivity (cm/s),
ϕ = suction at the bottom of the transmission zone (cm),
Z = depth of transmission zone (cm), and
h = height of water in the cylinder (cm).

The influence of ϕ and h relative to Z diminishes as the depth of transmission zone and the moisture content of the soil increases. The hydraulic gradient as such tends towards 1 in case of deep uniform soil profile and

$$V = K_T$$

Other field parameters included in the assessment included:

- **Soil Field Capacity Sfc (Available form tables)**

Estimates of soil field capacity can be obtained simply by knowing the texture of the soil. The amount of sand, silt and clay present in the soil determines the soil texture

Sfc = Porosity – Specific yield = P- Sy

The specific yield = Effective porosity

- **Storativity** = effective porosity = Specific yield

This parameter, if required shall be obtained from the measured soil Texture. (Tables available at USGS- GEOLOGICAL SURVEY WATER-SUPPLY PAPER 1662-D)

- **Aquifer storativity and specific yield**

Specific yield and specific retention are aquifer characteristics that are important in determining the volume of water in storage in an aquifer. Storativity (S) is a dimensionless measure of the volume of water that will be discharged from an aquifer per unit area of the aquifer and per unit reduction in hydraulic head. For a confined aquifer, storativity results only from the rock and fluid compressibilities and is typically very small (~10−4–10−5).

For an unconfined aquifer, the small effect of rock and fluid compressibility is generally neglected, and S is equal to the specific yield (Sy), which is defined as the volume of water that will drain under the force of gravity from unit bulk volume of the aquifer. This will be equal to the effective porosity, minus the fractional volume of water retained under gravity drainage by capillary forces.

In unconfined aquifers the storativity is, for all practical purposes, equal to the specific yield and, therefore, it should range between 0.1 and 0.3.

- **Transmissivity and Storativity**

Transmissivity (T) describes an aquifer's capacity to transmit water. Transmissivity is equal to the product of the aquifer thickness (m) and hydraulic conductivity (K) and it is described in units of m/day or m/s per metre of aquifer thickness.

It necessary to use transmissivity and storativity coefficients to calculate the response of an aquifer to stresses and to predict future water-level trends. These terms also are required as input for most flow and transport computer models.

2.2 SUMMARY

The field parameters listed below were required to be inputted in the hydrological model. Whilst some of this data may already be available, other parameters were collected to ensure sufficient detail in the computation of the model and in the understanding of the hydrological regime within the marshland. In order to measure such parameters, clearances from the ERA and Nature Trust Malta were sought by submitting an environmental permit application. All permit conditions issued were strictly followed throughout the implementation of the project.

- Geology – Rock unit thickness (m)
- Aquifer thickness (m)
- Precipitation (mm) using a rain gauge set up at the site and/or Met Office data at nearest met station in Marsaxlokk to be acquired.
- Hydraulic Conductivity of soil (m/s)
- Hydraulic Conductivity of rock (m/s)
- Run-off Coefficient/s (using published information) depending on the soil cover and use – this was acquired from published tables as it was not possible to set up a run-off measuring device such as a V-Notch considering that there is no proper water course within the catchment.
- Evapotranspiration (mm) – acquired from published data for the Maltese Islands and through simple onsite measurements of the pool water levels
- Salt Marsh and Quaternary deposits sediment characterisation – Field sampling and measurement of:
  - Density
  - Total Porosity,
  - Effective porosity,
  - *In Situ* Permeability and conversion to Hydraulic Conductivity
- Water wells and pumping wells if relevant in m^3 /day
- Piezometric level in aquifer monitoring by installation of a piezometer in small testing boreholes:
  - Piezometric level in Quaternary Deposits
  - Total and effective porosity
  - Bulk density
  - Hydraulic conductivity

- Depth variation of the pools through a contour mapping survey
- Salt marsh water levels were taken at two points: the deepest (largest) and shallowest pools through the installation of a graduated wooden meter (Figure 32) that was measured regularly during the rainy season, particularly during/after each rainfall/storm event. Ordinary datum was referred to for water depth by linking measurements taken at the two points with LIDAR data when the pools contained enough water to be interconnected with each other. For changes in water volume, a contour map of the salt marsh derived from LIDAR data with 20cm contour intervals was used since the maximum water depth does not exceed 1m. During periods of drought, readings were taken on a monthly basis in line with Guidance Document 19[15]. Grid contour mapping:
    - Water level monitoring for volume estimates
        - Run-off
        - Storm waves
    - Evapotranspiration (also by assessing daily temperature fluctuations)
    - Depth to bedrock
    - Bedrock type
- CCTV: Monitor storm wave events (SE storm events in particular)
- Storm events: leading to recharge of the salt marsh from storm waves and sea spray

FIGURE 32: WATER LEVEL METER

2.3 HYDRODYNAMIC MODEL

The basis for the hydrological model at il-Ballut ta' Marsaxlokk is conceptually founded on the theoretical principles of the water balance equation, whereby all the outputs from the waterbody (evaporation, transpiration, infiltration etc) are subtracted from all the freshwater and saline inputs as shown in Figure 33:

$$\textbf{In} - \textbf{Out} = \Delta\ \textbf{Storage}$$

[15] EC (2009). Common Implementation Strategy for the Water Framework Directive (2000/60/EC): Guidance Document No. 19. Guidance on surface water chemical monitoring under the Water Framework Directive.

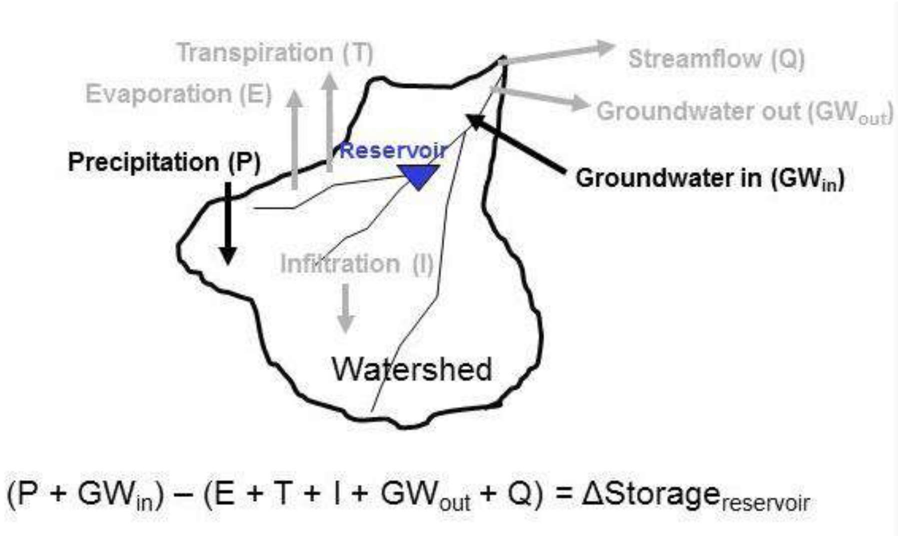


FIGURE 33: SCHEMATIC REPRESENTATION OF THE WATER BALANCE EQUATION FOR THE WATERSHED

Where: *P= Precipitation; GWin= Water flow into the Watershed; E+T= Evapotranspiration; I=Infiltration (Rainfall); Gwout=Water flow out of the Watershed; Q=Stream flow*

Δ Storage(reservoir) = Water storage in the Salt Marsh

In order to compile the conceptual and mathematical models, a number of field parameters need to be inputted into the model. According to Schedule V of S.L. 549.100, the following hydro morphological quality elements were collected from il-Ballut ta' Marsaxlokk:

- Flow regime (water flow regime corresponding to undisturbed conditions)
- Morphological conditions (depth variations, substrate conditions, structure and condition of mediolittoral zones, corresponding to undisturbed conditions)

The conceptual model will be developed following the collection of a large amount of relevant hydrogeologic, hydrologic, geological, and meteorological data of the study area obtained from different sources

The conceptual site model is expected to reveal that no groundwater modelling is necessary considering that the rocks encountered within the watershed of il-Ballut ta' Marsaxlokk are composed of impermeable Upper Globigerina Limestone and Lower Globigerina Limestone which are not regarded as aquifers. Furthermore, it is pertinent to note that the predominant rock outcropping within the watershed is composed of impermeable marls and marly limestone.

As is the case with the il-Ballut salt marsh, supplementary sources and sinks of the water body budget can take the form of atmospheric recharge, evaporation, overland runoff following precipitation events and direct withdrawal. In order to compute the model, the following steps shall be followed:

1. Delineate the watershed (consideration of the whole SAC area).

2. Obtain hydrologic and geographic data. Data shall include: rainfall, run-off coefficients, evapotranspiration, percolation, basin water levels, topography, soil cover, land use soil characteristics
3. Select modelling approach
4. Calibrate and verify model
5. Use model for assessment /prediction/ design. The model shall also be used to determine the impact on hydrology if the salt marsh is enlarged.
6. All restoration options proposed shall include costing calculations and the resultant impact on ecology (BQEs) in line with the provisions of S.L.549.100 which transposes the WFD (2000/60/EC).

2.3.1 Modelling groundwater flow using FREEWAT

The chosen mathematical model, FREEWAT aims at promoting the application of EU water-related directives by creating a public domain, QGIS-integrated platform, developed to simulate several hydrological processes in order to address decision-making in water resources management. The FREEWAT platform is a QGIS plug-in, which combines the abilities of GIS for geo-processing and post-processing tools with several codes of the MODFLOW, USGS family for the simulation of the:

» hydrological cycle,
» hydrochemical or
» economic-social processes.

The FREEWAT platform was tested in 14 case studies in EU and non-EU countries aiming at specific water resources issues [16,17,18,19,20,21]. FloPy is used as reference Python library to connect with hydrological codes. The FREEWAT platform includes the following modules for pre-processing and model implementation:

» A pre-processing tool allowing to import, analyse, and visualize time series data which can be used for model calibration.
» MODFLOW_2005 to perform groundwater flow simulation in the saturated and unsaturated zones.

---

[16] Dadaser-Celik, F., & Celik, M. (2017). Modelling surface water-groundwater interactions at the Palas Basin (Turkey) using FREEWAT. Acque Sotterranee-Italian Journal of Groundwater, 6(3).

[17] Grodzynskyi, M., & Svidzinska, D. (2017). Modelling the impact of rural land use scenarios on water management: a FREEWAT approach to the Bakumivka catchment case study, Ukraine. Acque Sotterranee-Italian Journal of Groundwater, 6(3).

[18] Kopač, I., & Vremec, M. (2017). Slovenian test case Vrbanski Plato aquifer in the EU HORIZON 2020 FREEWAT project. Acque Sotterranee-Italian Journal of Groundwater, 6(3).

[19] Perdikaki, M., Pouliaris, C., Borsi, I., Rossetto, R., & Kallioras, A. (2017). Management of coastal hydrosystems through the application of free and open source software tool FREEWAT. European Water, 57, 383-388.

[20] Positano, P., & Nannucci, M. (2017). The H2O20 FREEWAT participated approach for the Follonica-Scarlino aquifer case study. A common space to generate shared knowledge on the value of water. Acque Sotterranee–Ital. J. Groundwater, 6(3/149), 27-38.

[21] Cannata, M., Neumann, J., & Rossetto, R. (2018). Open source GIS platform for water resource modelling: FREEWAT approach in the Lugano Lake. Spatial Information Research, 26(3), 241-251.

A module for sensitivity analysis, calibration, and parameter estimation using the UCODE_2014 which improves the model fit, by reducing the difference between model-simulated heads and flows and the observed data is also available. The model also encompasses tools for the analysis, interpretation, and visualization of hydrogeological and hydrochemical data:

- A module to simulate solute transport in groundwater flow systems using MT3DMS
- A module for water management and planning of rural environments by integrating MODFLOW-OWHM

Groundwater is stored in the aquifer represented by the Quaternary deposits. These extend eastward to about 140m measured from the road leading to DPS and extend by 200m measured in a north south direction. In this way the model is made up of 14 rows and 20 columns. Each cell measures 10m x 10m. Boundary conditions represent any flow or head constraints within the flow domain, with respect to the hydrogeological conditions which occur at the lateral boundaries of the investigated aquifer system.

MODFLOW_2005 provides the ability to compare simulated heads and flows to measured data values, which is called the Observation Process (OBS), and OBS in MODFLOW_2005 is derived from OBS in MODFLOW_2000. The OBS is the first step for the calibration of a model and the application of the sensitivity analysis for FREEWAT. The types of observations which could be used in the OBS process include:

- hydraulic heads;
- changes in hydraulic head over time;
- flows to or from surface-water bodies represented using the General head boundary (GHB), Drain (DRN), River(RIV), or Streamflow Routing (STR) Packages; and
- flow to or from constant-head cells

The OAT is a (FREEWAT module) pre-processing tool which facilitates the import analysis and visualization of time series data in order to enhance model development and model calibration. The simulation is also capable of modelling stress periods.

The model inflows during the simulation period include the following calibrations and balances:

- Lateral groundwater inflows from the alluvial cone
- Lateral groundwater inflows from the quaternary aquifer system
- Saline water inflow at (General head boundary conditions of the conceptual model).
- Percolation and distributed recharge based on rainfall rate.

The model outflows during the simulation period include:

- Groundwater pumping during the irrigation period (Well boundary conditions – and Distributed evapotranspiration loss from the water
- Lateral groundwater outflows from the alluvial cone

FREEWAT provides integration of UCODE_2014 for the sensitivity analysis and simulated and observed ground water levels as well as simulated Piezometric Map versus measured piezometric levels. If the need arises, the selected model can also include groundwater modelling in which case the hydraulic conductivity and storativity of Lower Globigerina Limestone shall be taken from published information.

In the Maltese Islands, fluctuations in run-off and aquifer discharge are primarily caused by climatic variables like drought and severe storms. The model produced in MODFLOW shall be used to simulate the salt marsh recharge response to probable climatic scenarios by applying changes in precipitation, temperature and dry season length.

These meteorological changes shall be calculated and analysed using the Thorntwaite-Mather monthly water balance model (TMWB) which uses a temperature-based method to determine potential evapotranspiration and net precipitation method to generate an appropriate recharge rate which shall be applied to the model in MODFLOW.

2.3.2 Model Implementation

2.3.2.1 Input data files/1

The folder input_data contains the following subfolders with data files necessary to implement the model:

- map subfolder map.tif is a raster file with a base map containing the study area;
- Salt marsh QGIS shapefile

2.3.2.2 Programs executables

The folder bin contains MODFLOW-2005 executable (mf2005.exe). It can be downloaded from the following web site, along with MODFLOW User Manual and a set of exercises: https://water.usgs.gov/ogw/modflow/MODFLOW.html#downloads It should be noted that mf2005.exe executable must be downloaded only, no installation is required.

2.3.2.3 Preliminary steps

To start building the model with FREEWAT, a new folder was created so as to save all files related to it: C:/FREEWAT/t0 (sm01-saltmarsh01)

Inside this folder, the provided folder input_data was pasted, with input files useful to build the model, and bin, with programs executables. QGIS was used to create a new project.

A Model Layer was set up using FREEWAT and the following data were used:

- Model name: sm01
- Grid Layer: grid
- Layer Name: sm_aquifer
- TOP: 3.2m
- BOTTOM: -2.4m
- Layer Type: convertible (unconfined)
- Wetting Capability: No
- Interblock Trasmissivity: harmonic

The ‘upper_aquifer ’ layer was selected in the LP (layers panel) and its Attribute Table was opened. Subsequently, the Toggle editing mode was activated (the expression bar will appear). The field to be edited was selected from the drop-down menu (i.e., STRT, KX, KY, KZ) and, in the expression bar, the following was inputted: 16 for STRT; 3e-5 for KX, KY and KZ. (Note: STRT is in m MSL; KX, KY and KZ are in m/s). The values were updated for each field. The edits were saved and the toggle editing mode was deactivated. The inactive cells were defined although in the case of the saltmarsh, all cells are active.

Boundary Conditions

The boundary conditions defined during SP 1 were specified as shown in Figure 34:

- Specified-head along the eastern boundary
- No-flow at the northern and southern boundaries and at the bottom of the system
- Saltmarsh along the western boundary

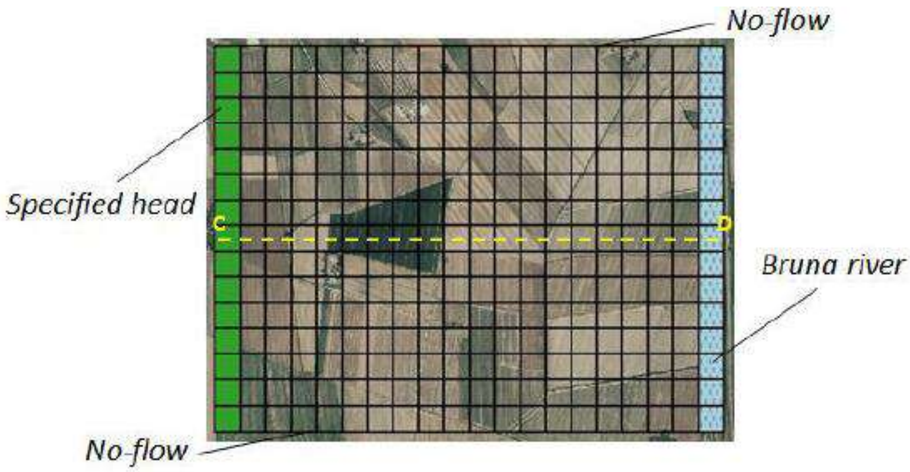


FIGURE 34: REPRESENTATION OF BOUNDARY CONDITIONS DURING SP 1 IN THE 3RD LAYER (PLAN VIEW).

Specified-head boundary condition

To represent specified-head boundary condition along the Eastern (western) boundary, cells along the 1st column were selected as shown in Figure 35. This was done by selecting the ‘upper_aquifer ’ layer in the LP and the expression was inserted by using Select features using an expression Є. This will result in the selected (yellow) cells in the Map canvas. If not, it was ensured that the first visible layer was ‘upper_aquifer’, by unchecking all the other overlaid layers in the LP.

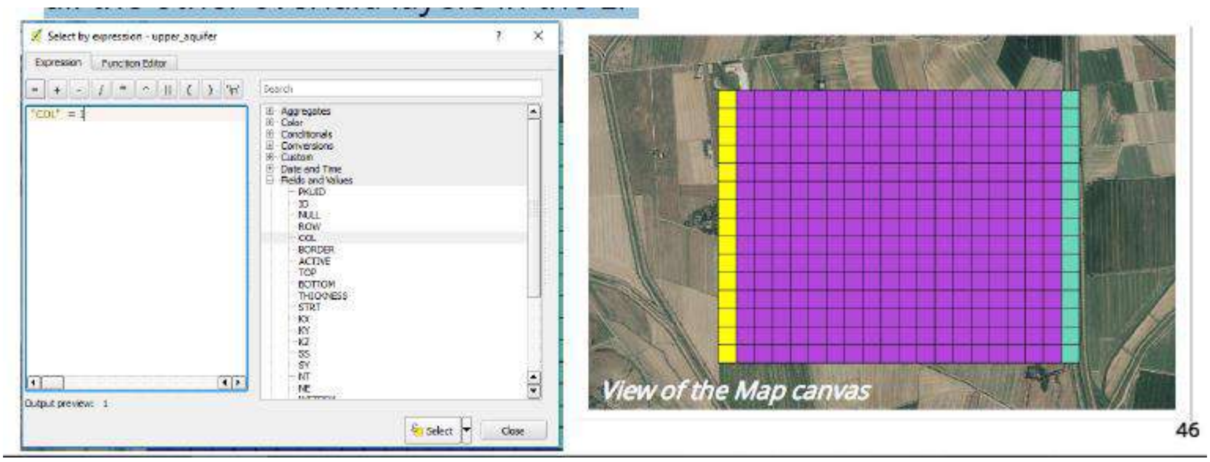


FIGURE 35: VIEW OF THE MAP CANVAS

2.4 ECOLOGICAL BROAD-BRUSH SURVEY

As part of the present study, AIS undertook an ecological broad-brush survey of the salt marsh in February and March, 2022 to document the natural features present within the site. The broad-brush survey permitted an investigation on the site's ecology, locating the presence of protected, rare, endangered or otherwise important habitats and associated species. Macrophytes were assessed through visual observation and the different habitats were subsequently mapped to show their overall coverage and distribution across the site. The macrophytes present were recorded to species level. Additionally, an aerial shot of the entire salt marsh was captured through a drone survey during February and May 2022.

Benthic invertebrates were collected from the largest pool at il-Ballut ta' Marsaxlokk. This coincided with the same sampling station (Station 1) established in the NP02/21 project as shown in Figure 38 and Table 4. Figure 36 shows an aerial image of the location of the station whereas Figure 37 shows the section of the largest pool from which samples were collected. Benthic invertebrates were collected from two samples of soft sediments using a manually-operated Peterson grab. The samples were filtered in situ using a 0.5mm mesh sieve. The collected species were identified to the lowest taxonomic rank possible. Multivariate analysis of this BQE involved the computing of species richness, abundance and Shannon-Weiner diversity.

The present study overlaps with the NP02/21 project since the former elapses from November 2021 to June 2022 whereas the latter runs from November 2021 to November 2023. Although they differ in their scope, the projects share some similarities in data acquisition. Table 6 shows a comparative review of the two projects and highlights the data to be collected for the present study i.e. macroinvertebrates and the data to be used from the NP02/21 project. The latter is also described in Section 2.5.

FIGURE 36: SAMPLING STATION FOR THE COLLECTION OF BENTHIC INVERTEBRATES FROM THE LARGEST POOL AT IL-BALLUT TA' MARSAXLOKK

FIGURE 37: SECTION OF LARGEST POOL AT IL-BALLUT TA' MARSAXLOKK FROM WHICH BENTHIC INVERTEBRATES WERE SAMPLED (STATION 1)

2.5 ADDITIONAL DATA SOURCES

Data published from previous surveys at the site were requested from the ERA in order to obtain a better understanding of the salt marsh's hydrological dynamics throughout the years and to import existing data into the hydrological model.

For the NP02/2021 project, it is important to note that the monitoring programme and the calculation of the BQEs is currently underway. Therefore, some data on the BQEs were not available for inclusion in the present work since the technical assessment is due by the end of June 2022 and certain BQEs, macrophytes and benthic invertebrates are to be surveyed/sampled as part of the NP02/2021 project. Therefore, data on these BQEs were collected as part of this technical assessment as described in Section 2.4.

The data to be used from the NP02/2021 project for the present work included: physico-chemical parameters, nutrients and chlorophyll *a* (see Table 6). Such data were required to substantiate the field observations made by the key experts. Therefore, there was no need for the recollection of such data. Instead, the experts referred to data collected from such projects coupled with observations made directly by the ecologist on site.

Given the limited data which will be attainable from the NP02/2021 project (November 2021 to November 2023), historical biotic and abiotic data from the T07 project (February 2012 to January 2013) (see Figure 39 and Table 5) will be used. However, due to the gradual coastal erosion that occurred over the last decade, the pool from which the two monitoring stations were established is no longer existent and the coordinates of these monitoring stations are now located seaward from their original position within the salt marsh (Figure 40).

Historical data will also be obtained from the postgraduate dissertation by Henwood (2006)[22] to assess the hydromorphology at il-Ballut ta' Marsaxlokk and the link to the site's ecology. Data from these assessments will be used as a reference for the biological, physico-chemical and hydromorphological elements of the site.

FIGURE 38: THE TWO MONITORING STATIONS AS PER NP02/2021

[22] Henwood, J. (2006). Algal Assemblages of Three Maltese Saline Wetlands. (Unpublished Master's dissertation). University of Malta, Msida, Malta.

TABLE 4: THE TWO MONITORING STATIONS AS PER NP02/2021

WATER BODY	MONITORING STATION	SECTION	LATITUDE	LONGITUDE	QUALITY ELEMENTS	PARAMETERS
Il-Ballut ta' Marsaxlokk MT TW 03	Station 1	Largest pool	35.83911399	14.54896896	Biological	Benthic invertebrates, Phytoplankton
					Physico-chemical	All
					Hydromorphological	Water level
					Chemical	All chemicals in water and sediments (inc. support physico-chemical parameters)
	Station 2	Smaller pool	35.83886748	14.54914896	Physico-chemical	All

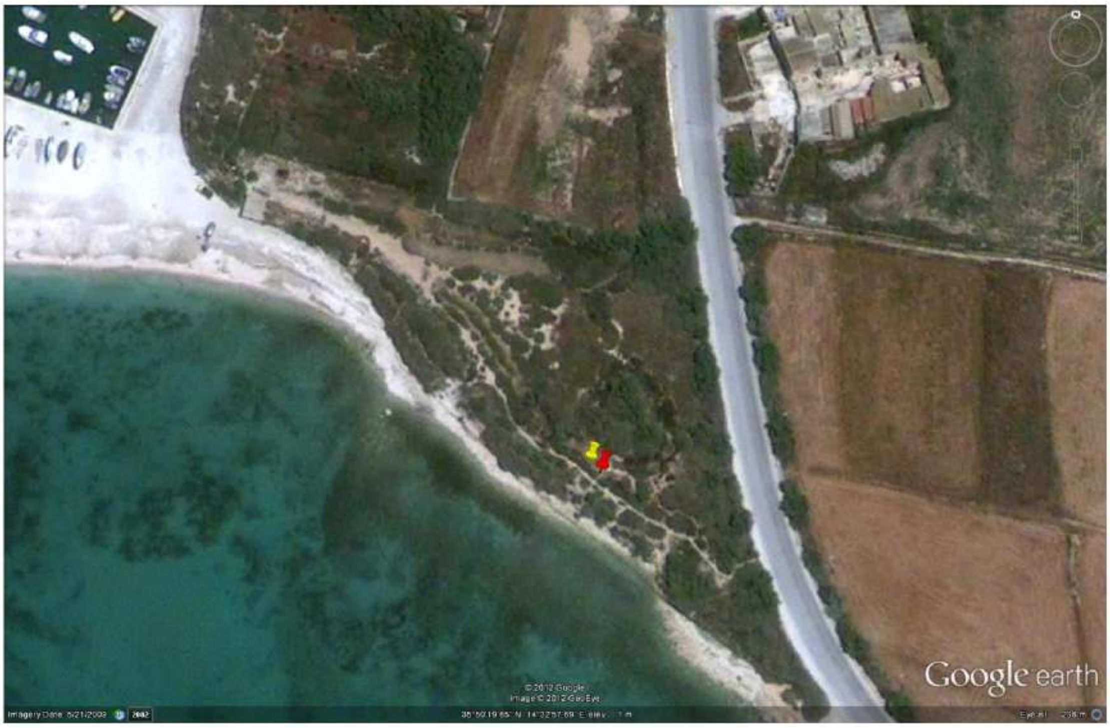


FIGURE 39: T07 PROJECT SAMPLING STATIONS FOR WATER SAMPLES AND PHYSICOCHEMICAL PARAMETERS (RED) AND HYDROMORPHOLOGICAL MEASUREMENTS (YELLOW) AT IL-BALLUT TA MARSAXLOKK AS SHOWN IN 2012

TABLE 5: GIS COORDINATE POINTS AND MEASUREMENTS TAKEN

Colour	Purpose	Geographic Coordinates
Red	Water samples are taken and physicochemical parameters are measured	35°50’18.77” N 14°32’58.13” E
Yellow	Hydromorphological measurements	35°50’18.77” N 14°32’58.13” E

Figure 40: Regression of the salt marsh at il-Ballut ta' Marsaxlokk from 2012 to 2021. The position of the T07 project sampling stations for Water samples and physicochemical parameters (red) and hydromorphological measurements (yellow) becomes increasingly seaward over time

TABLE 6: COMPARATIVE REVIEW OF THE CONCURRENT PROJECTS – PRESENT STUDY AND NP02/21 WHAT ABOUT HABITATS/BROAD BRUSH SURVEYS? KIDNLY INDICATE WHETHER COLLECTED UNDER THIS STUDY OR DATA FROM NP02/21

Project	Scope	Project Duration	Sampling Station	Data Collected	Data from Additional Sources
Present Study	To establish the hydrological regime within il-Ballut ta' Marsaxlokk	November 2021-June 2022	Station 1 (same coordinates as NP02/21)	Biological • Macroinvertebrates Physico-chemical (from pond at discharge point of the two 80mm pipes and Pool no.1) • pH • Salinity • Dissolved oxygen • Temperature • Conductivity • Pressure • Chlorophyll *a*	NP02/21 Physico-chemical • pH • Salinity • Dissolved oxygen • Temperature • Concentration • Water depth of the largest pool Nutrients and Chlorophyll *a* • Nitrates • Nitrites • Total nitrogen • Orthophosphates • Ammoniacal nitrogen • Phosphorus • Biological Oxygen Demand • Organic carbon • Chlorophyll *a*

Project	Scope	Project Duration	Sampling Station	Data Collected	Data from Additional Sources
NP02/21	To develop assessment methods for the monitoring of local inland and transitional water bodies and to determine their ecological, chemical and conservation status	November 2021-November 2023	Station 1 and Station 2 as outlined in Table 4	Biological, physico-chemical, hydromorphological as outlined in Table 4	/

Part of the biotic data to be adopted from the T07 project includes data on macroinvertebrates as well as the results provided for the Shannon-Wiener Diversity Index (H_{SH}). The output of the index was used to provide an indication of the assessment of ecological status of the site under study. In order to quantify the distance from a hypothetic standard conditions, the calculated H_{SH} was compared with the standard value calculated from transitional water environment of the appropriate type.

For the T07 project, values were those provided by Italian legal framework, namely the DECRETO MINISTERIALE AMBIENTE N. 260, 'CRITERI TECNICI PER LA CLASSIFICAZIONE DELLO STATO DEI CORPI IDRICI SUPERFICIALI - MODIFICA NORME TECNICHE DLGS 152/2006', which recalls and modify the technical attachments of the DECRETO LEGISLATIVO 152/2006, which in turn adopts the standards and methods of the WFD. Table 7 shows the type-related reference values for transitional waters.

TABLE 7: TYPE-RELATED REFERENCE VALUES FOR TRANSITIONAL WATERS

MORPHOLOGY	TIDAL FLUCTUATION	SALINITY	H_{SH}	*N^O OF SPECIES*
Coastal lagoon	Not tidal	N/A	3.30	25
Coastal lagoon	Microtidal	Oligo/mid/poly-	3.40	28
Coastal lagoon	Microtidal	Eu/hyper-	4.23	46

Given the high fluctuation of the salinity level due to the influence of marine inflow and rainfall, as a transitional water body, the salt marsh of il-Ballut ta' Marsaxlokk falls into the second definition. The evaluation of the ecological quality of the water body in the T07 project is given by the ratio between the experimental and the reference value, rounded up. This value allows the identification of the ecological status classification according to the values and limits indicated in Table 8. This assessment of ecological status will also be adopted for the present study.

TABLE 8: CLASS LIMIT VALUES FOR TRANSITIONAL WATERS

HIGH/GOOD	GOOD/MODERATE	MODERATE/POOR	POOR/BAD
0.96	0.71	0.57	0.46

According to the definitions from the WATER FRAMEWORK DIRECTIVE (2000/60/EC), the mentioned class limit values summarise the conditions indicated in Table 9 with respect to macrobenthic assemblages.

TABLE 9: DESCRIPTION OF THE STATUS OF THE MACROBENTHIC COMMUNITIES ACCORDING TO THE ECOLOGICAL STATUS FOR TRANSITIONAL WATERS

HIGH	GOOD	MODERATE	POOR	BAD
The level of diversity and abundance of	The level of diversity and	The level of diversity and	Evidence of major	Evidence of severe

HIGH	GOOD	MODERATE	POOR	BAD
invertebrate taxa is within the range normally associated with undisturbed conditions. All the disturbance sensitive taxa associated with undisturbed conditions are present.	abundance of invertebrate taxa is slightly outside the range associated with the type-specific conditions. Most of the sensitive taxa of the type-specific communities are present.	abundance of invertebrate taxa is moderately outside the range associated with the type-specific conditions. Taxa indicative of pollution are present. Many of the sensitive taxa of the type-specific communities are absent.	alterations. The relevant biological communities deviate substantially from those normally associated with the surface water body type under undisturbed conditions.	alterations. Large portions of the relevant biological communities normally associated with the surface water body type under undisturbed conditions are absent.

3 RESULTS

3.1 HYDROLOGY

Assessing the hydrologic conditions of watersheds is a vital component in quantifying and managing water supply. Monitoring the hydrologic conditions of the salt marsh recharge has shown that such conditions can fluctuate tremendously in small watersheds such as that at il-Ballut ta' Marsaxlokk, mainly due to its local climate -rainfall in particular, soil type and aquifer attributes.

3.1.1 Rainfall and Seawater Input

The rainy season in the Maltese islands starts in September. Thus, the first monitoring session of the hydrological conditions of the salt marsh was carried out in early September, 2021. During this time, the salt marsh was in a dry state. Figure 41 shows the three main pools (Pools numbers 1, 2 and 3) as well as the overflow pools (O1 and O2) which receive excess water from the main pools during rainfall events. The same map was used to depict the habitats of the salt marsh as described in Section 3.6.1.1.

The water level at the salt marsh has been observed and monitored during the last eight months, between September, 2021 and May, 2022. During this period, it has been noted that the salt marsh has been recharged predominantly by surface rainwater run-off. The water level increased significantly during the initial months of the rainy season and decreased substantially following prolonged intervals without rain. Such intervals were especially noted between January and February 2022 when water levels in the salt marsh decreased steadily due to limited to no rainfall which is uncharacteristic during this time of the year.

Figure 42 shows the cumulative rainfall at il-Ballut ta' Marsaxlokk since 1st September, 2021 as registered at the nearby Bengħisa Meteo Station. On the 4th October 2021, the rainfall level at the salt marsh stood at 39.6 mm. The water level was measured following the first rainfall event. Figure 43 shows that Pool No. 1 contained water whereas the adjacent overflow pool (O2) was desiccated at the time.

As a result of additional rainfall events, the total rainfall increased to 217 mm when the water level was measured on the 27th October. All pools (Pool numbers 1, 2 and 3 and overflow pools O1 and O2) were consequently inundated with water as shown in Figure 44, Figure 45 and Figure 46. Figure 47 shows the status of coastal erosion noted on the same day. The natural components of sand and pebbles constituted the beach. This beach composition contrasts with the status of the sandy beach as noted on 2nd March, 2022 (Figure 60) wherein large boulders and construction bricks had been washed up on the beach.

The maximum water level was recorded on 12th November, 2021 (the 73rd day) from the Pool No. 3. On this day, the rainfall level since 1st September, 2021 increased to 286 mm. Figure 48 shows the water conditions at Pool No. 1 and adjacent overflow pool (O2) whereas Figure 49 shows such conditions in Pool No. 3. As a result of cumulative rainfall events, these pools were able to attain the maximum recorded water level of the study period.

An increase in cumulative rainfall up to 6th December (the 97th day of the rainy season) is depicted in Figure 42. This was the last reported substantial rainfall event. Since that time, rainfall events were rather scarce which consequently led to a steady decline in the water level within the pools. In fact, the water level at the Nature Trust Tool Room, which typically experiences flooding during rainfall events, was already decreasing as noted on the same day (Figure 50). Figure 51 shows the water level condition in Pool No. 1 on the same day.

The curve in Figure 42 begins to plateau after the 6th December 2021 as rainfall was rather low and widely spaced in time. On the 16th December, 2021, it was noted that the water level in the marshland was decreasing and consequently exposed large swathes of terrain. Pool No. 1 and adjacent overflow pool (O2) experienced gradual desiccation as shown in Figure 52 and Figure 53. Figure 54 shows that the water level in Pool No. 3 and adjacent overflow pool (O1) was noted to retreat from the Nature Trust Tools Room.

On the 21st December, water was noted to be restricted solely to the pools of the marshland. This decreasing trend persisted with time as the pools experienced gradual desiccation from the months of January (refer to Figure 55 and Figure 56) up until the most recent observations of the salt marsh in May.

During early March, the level of water in Pool No. 1 decreased low enough to expose opportunistic algae growing along the vertical banks as shown in Figure 57. Pool No. 2 experienced gradual desiccation as shown in Figure 58 whereas Pool No. 3 was predominantly dried out as shown in Figure 59 and Figure 61. However, other sections of the pools such as that of Pool No. 3 have become completely desiccated as shown in Figure 62.

As of 7th April 2022, it was noted that the saltmarsh was entirely dry including a pond on the NW flat plain which was previously reported to retain water even during the summer months. The only site that has retained water consistently includes a pond which is about 80cm in diameter. This pond is found in the trench hosting the reed beds and leading run-off from the catchment into the saltmarsh (refer to Figure 67).

An aerial image of il-Ballut ta' Marsaxlokk captured through a drone survey as part of the NP02/21 project is shown in Figure 63. Pool numbers 1, 2 and 3 are filled with water since this section of the aerial image was captured in February. The overflow pools (O1 and O2) were dry at the time of the drone survey. However, these tend to receive water from the three main pools following a rainfall event as previously described.

Table 10 lists the relative water levels measured. These values are so as to observe the changes in the water with rainfall and after rainfall in particular. From the water level measurements, it was noted that during intervals without rainfall the water level fell continuously indicating that recharge was only by runoff. There was no recharge by groundwater.

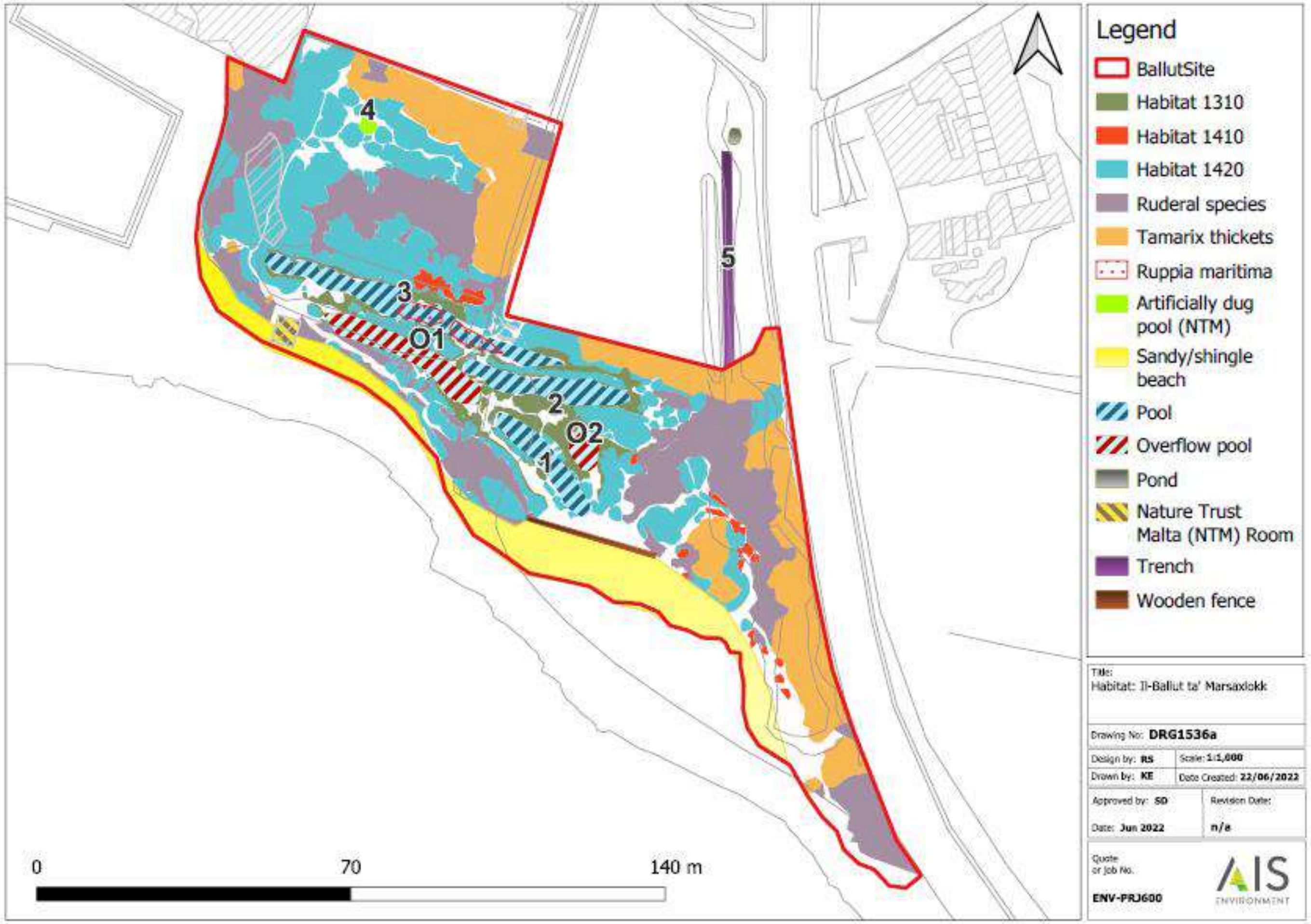


FIGURE 41: LOCATION OF THE THREE MAIN POOLS/GULLIES (POOL NOS. 1, 2 AND 3), ARTIFICIALLY DUG POOL (POOL NO. 4), OVERFLOW POOLS (O1 AND O2) AND DEEP TRENCH (NO. 5) AT IL-BALLUT TA' MARSAXLOKK

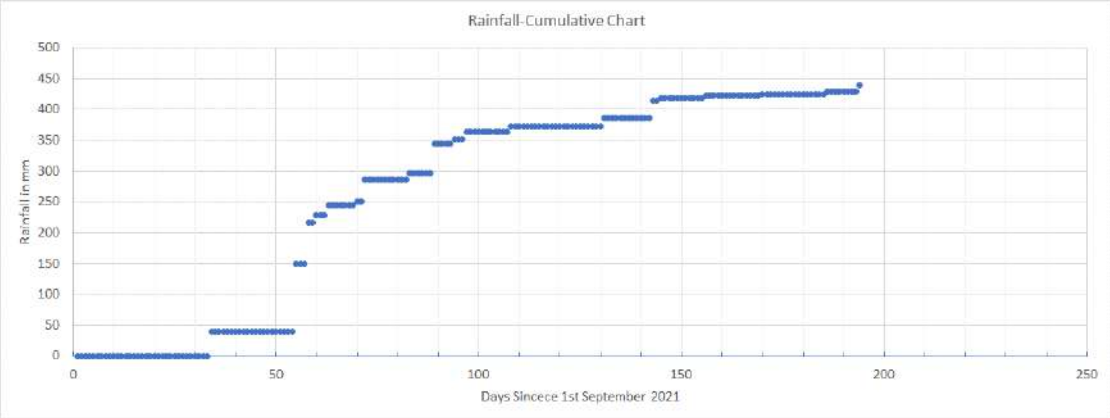


FIGURE 42: CUMULATIVE RAINFALL AT IL-BALLUT TA' MARSAXLOKK SINCE 1ST SEPTEMBER, 2021

TABLE 10: LISTING OF WATER LEVEL MEASURED DURING NOVEMBER AND DECEMBER 2021

DATE	CUMULATIVE RAINFALL	WATER LEVEL
15/11/21	286	399
19/11/21	286	475
26/11/21	296	378
29/11/21	344	371
06/12/21	363	410
08/12/21	363	423
10/12/21	363	360
16/12/21	363	489
21/12/21	373	564
26/12/21	363	606

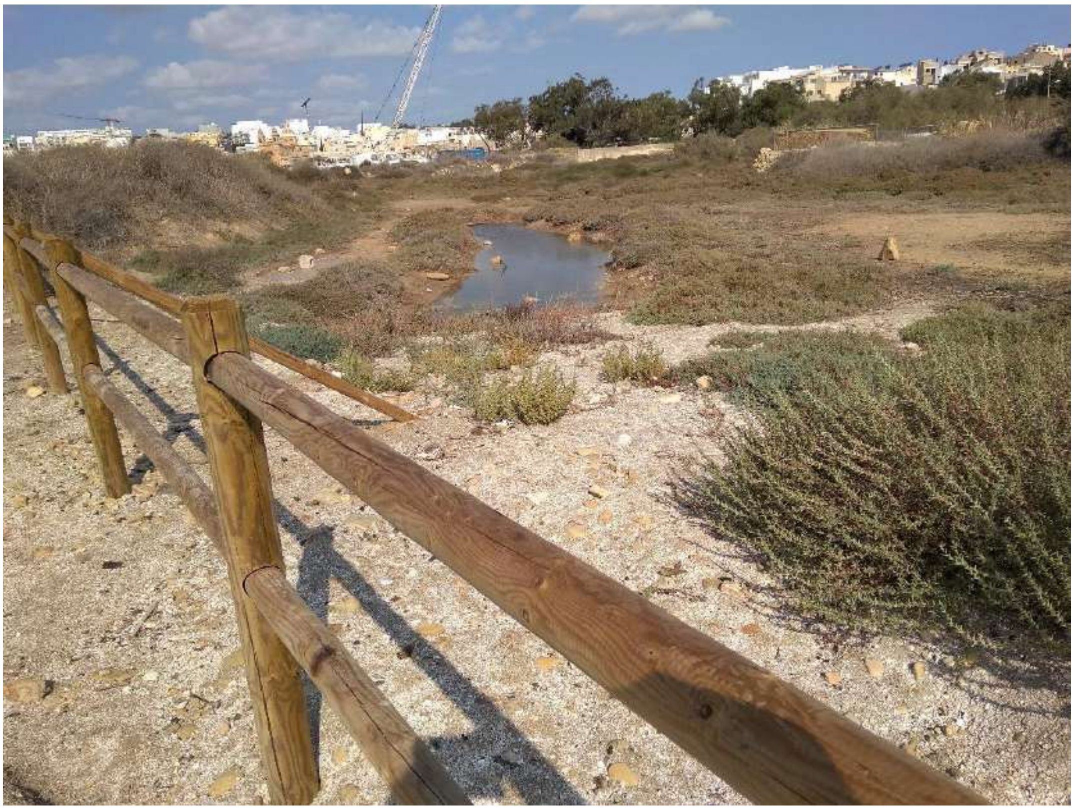


FIGURE 43: POOL NO. 1 WITH WATER AND DESICCATED OVERFLOW POOL (O2) AS NOTED ON 4TH OCTOBER, 2021

FIGURE 44: POOL NO. 1 AND ADJACENT OVERFLOW POOL (O2) FILLED WITH WATER AS A RESULT OF RAINFALL EVENTS AS NOTED ON 27TH OCTOBER, 2021

FIGURE 45: POOL NO. 3 AND OVERFLOW POOL (O1) FILLED WITH WATER AS A RESULT OF RAINFALL EVENTS AS NOTED ON 27TH OCTOBER, 2021

FIGURE 46: POOL NO. 1 (LEFT) AND POOL NO. 2 (RIGHT) FILLED WITH WATER AS A RESULT OF RAINFALL EVENTS AS NOTED ON 27TH OCTOBER, 2021

FIGURE 47: STATUS OF COASTAL EROSION AS NOTED ON 27TH OCTOBER, 2021

FIGURE 48: POOL NO. 1 AND ADJACENT OVERFLOW POOL (O2) FILLED WITH THE MAXIMUM RECORDED LEVEL OF WATER AS NOTED ON 12TH NOVEMBER, 2021

FIGURE 49: MAXIMUM WATER LEVEL RECORDED AT THE NATURE TRUST TOOLS ROOM NEAR POOL NO. 3 AND ADJACENT OVERFLOW POOL (O1) AS NOTED ON 12TH NOVEMBER, 2021

FIGURE 50: DECREASING WATER LEVEL AT NATURE TRUST TOOLS ROOM AS NOTED ON 6TH DECEMBER, 2021

FIGURE 51: WATER LEVEL CONDITION IN POOL NO. 1 AS NOTED ON 6TH DECEMBER, 2021

FIGURE 52: GRADUAL DESICCATION IN POOL NO. 1 AND ADJACENT OVERFLOW POOL (O2) AS NOTED ON 16TH DECEMBER, 2021

FIGURE 53: GRADUAL DESICCATION IN OVERFLOW POOL (O2) AS NOTED ON 16TH DECEMBER, 2021

FIGURE 54: WATER LEVEL IN POOL NO. 3 AND ADJACENT OVERFLOW POOL (O1) RETREATING FROM THE NATURE TRUST TOOLS ROOM AS NOTED ON 16TH DECEMBER, 2021

FIGURE 55: GRADUAL DESICCATION IN POOL NO. 1 AND ALMOST COMPLETE DESICCATION IN ADJACENT OVERFLOW POOL (O2) AS NOTED ON 7TH JANUARY, 2022

FIGURE 56: WATER LEVEL AT POOL NO. 3 AND ADJACENT OVERFLOW POOL (O1) AS SEEN FROM THE NATURE TRUST TOOLS ROOM ON 7TH JANUARY, 2022

FIGURE 57: WATER LEVEL AT POOL NO. 1 EXPOSING OPPORTUNISTIC ALGAE ALONG VERTICAL BANKS AS NOTED ON 2ND MARCH, 2022

FIGURE 58: GRADUAL DESICCATION OF POOL NO. 2 AS NOTED ON 2ND MARCH, 2022

FIGURE 59: ALMOST COMPLETE DESICCATION OF POOL NO. 3 AS NOTED ON 2ND MARCH, 2022

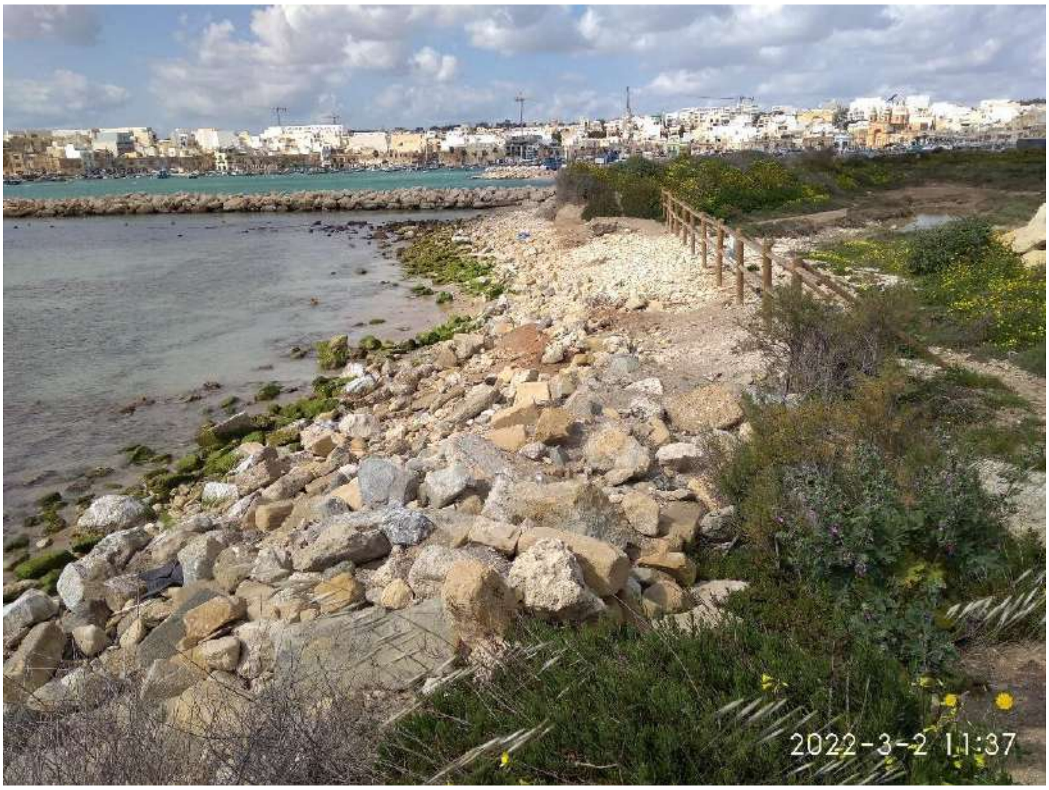


FIGURE 60: STATUS OF COASTAL EROSION AS NOTED ON 2ND MARCH, 2022

FIGURE 61: PREDOMINANTLY DESICCATED POOL NO. 3 AS NOTED ON 8TH MARCH, 2022

FIGURE 62: A SECTION OF POOL NO. 3 SHOWING COMPLETE DESICCATION AS NOTED ON 8TH MARCH, 2022

FIGURE 63: AERIAL IMAGE OF IL-BALLUT TA' MARSAXLOKK CAPTURED THROUGH A DRONE SURVEY AS PART OF THE NP02/21 PROJECT

Apart from direct precipitation input, the salt marsh is also recharged from rainwater run-off coming from the catchment including the road leading to the Delimara Power Station by two 800mm pipes hidden in the grass in a cistern as shown in Figure 64. Figure 65 shows the location of a small pond containing freshwater about 0.5m in diameter at the discharge of the two pipes (Figure 66). Run-off is conveyed through a deep trench (1m to 1.5m in depth) bounded by reed beds to the saltmarsh as shown in Figure 67.

In addition to surface run-off recharge, the marshland is occasionally supplemented by sea water recharge. A strong wind event characterized by having a changing direction from northeast-east-southeast and a wind force of 6-7 in March caused high sea waves at Marsaxlokk bay. Despite this event, there was no direct recharge of the salt marsh from the sea although coastal erosion was substantial. However, another strong wind event occurred on 21st April with a southeast wind force of 6 (= 48km/h) (Figure 68). Seawater forced its way through the wave breakers and entered directly and indirectly through sea spray into the saltmarsh for the first time since monitoring started in September 2021. The ponds were completely dry before this gale event. It is therefore important to keep in mind the potential contribution from seawater during gale force winds. Estimated volumes of seawater that entered the pools are shown in Table 11.

TABLE 11: ESTIMATED VOLUME OF SEAWATER ENTERING THE POOLS WITHIN IL-BALLUT TA' MARSAXLOKK FOLLOWING A STORM EVENT ON 21ST APRIL 2022

POOL NUMBER	VOLUME (M^3)
1	23 (Figure 69 and Figure 70)
2	16 (Figure 70)
3	0.2 (Figure 71)
4	0.2 (Figure 72)

FIGURE 64: PIPELINE UNDER THE ROAD

FIGURE 65: LOCATION OF POND (STILL HOLDING FRESHWATER IN APRIL 2022) AND LOCATION OF INVESTIGATION HOLES WITH INSTALLED PIEZOMETERS S1 AND S2

FIGURE 66: POND WITH WATER AT THE DISCHARGE POINT OF THE BURIED PIPELINE CROSSING THE ROAD LEADING TO THE DELIMARA POWER STATION

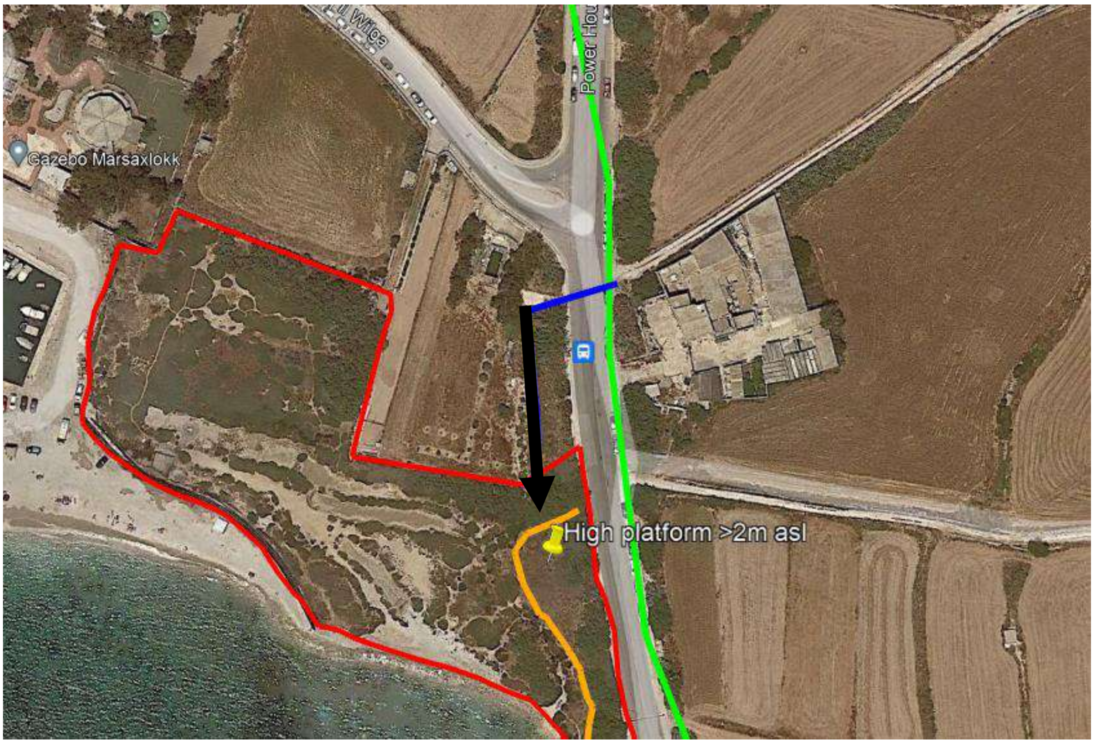


FIGURE 67: PIPELINE (BLUE LINE) TRAVERSING THE ROAD AND THEN DISCHARGING INTO THE CHANNEL (BLACK ARROW) THAT CONVEYS RUN-OFF TO THE SALT MARSH. PART OF THE CATCHMENT BOUNDARY (GREEN LINE), THE SALT MARSH BOUNDARY (RED LINE) AND THE BOUNDARY ENCOMPASSING THE HIGH PLATFORM ABOVE SEA LEVEL (ORANGE LINE) ARE ALSO SHOWN

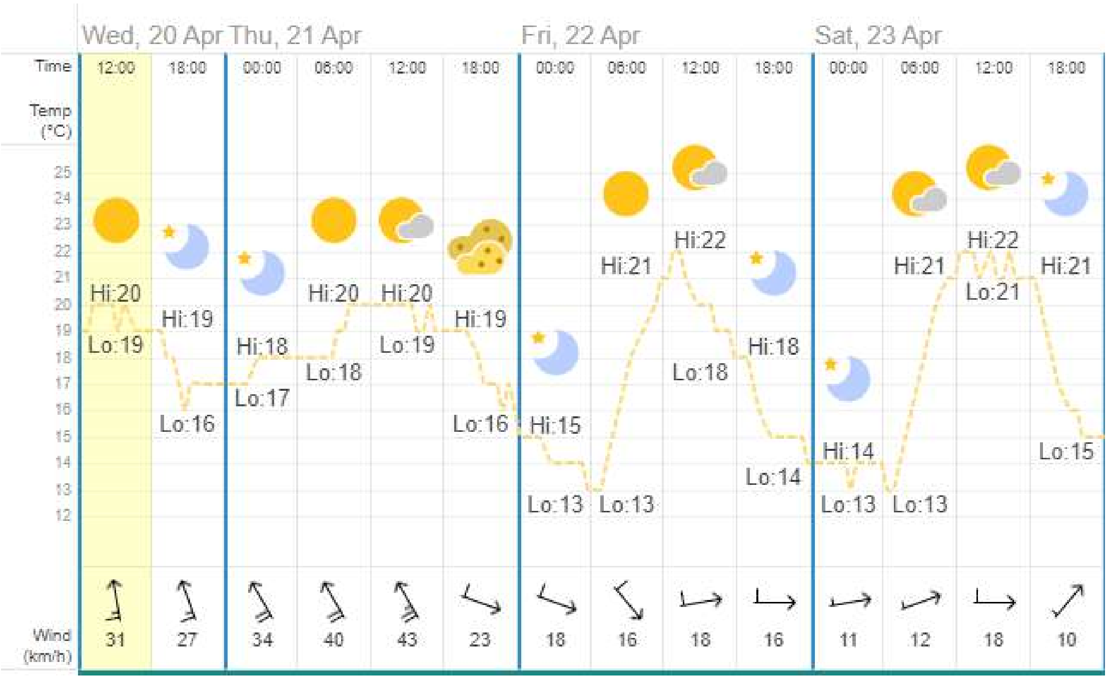


FIGURE 68: WEATHER REPORT FOR 20TH APRIL TO 23RD APRIL 2022. WIND GALE FORCE EVENT OCCURRED ON THURSDAY 21ST APRIL 2022

FIGURE 69: STORM WATER FILLING POOL NO. 1 FOLLOWING GALE FORCE WINDS OF 21ST APRIL

FIGURE 70: POND NO. 1 (RIGHT) AND POND NO. 2 (LEFT) WITH AROUND 23M^3 AND 16M^3 OF SEAWATER RESPECTIVELY FROM THE STORM EVENT (PHOTO 23 APRIL 2022)

FIGURE 71: POND NO. 3 WITH AN ADDITIONAL 0.2M^3 OF SEAWATER FROM THE STORM EVENT

FIGURE 72: POND NO. 4 WITH AN ADDITIONAL 0.2 M^3 OF SEAWATER FROM THE STORM EVENT

An important impact of storm waves is coastal erosion. Figure 73 shows two screenshots of the shore profile in 2021 (on the left) and 2002 (on the right). It is at once evident that the coastal profile in 2002 was straight while that in 2021 is concave. Moreover, the area of the two screenshots is as follows:

- Area 2002: 6,500m^2
- Area 2021: 5,000m^2

This suggests that ongoing coastal erosion is substantial.

FIGURE 73: TWO SCREENSHOTS: ON THE LEFT COASTAL PROFILE IN 2021 ON THE RIGHT COASTAL PROFILE IN 2002

Photographs of the coastal profile taken in November 2021 and April 2022 also show that there has been substantial coastal erosion (Figure 74 and
Figure 75). This phenomenon appears to have increased since the time of the construction of the new temporary break water (Figure 76) constructed by Infrastructure Malta during the rebuilding of il-Menqa.

FIGURE 74: PHOTOGRAPH SHOWING THE COASTAL PROFILE ON 27 NOV 2021

FIGURE 75: PHOTOGRAPH SHOWING THE COASTAL PROFILE ON 23 APRIL 2022

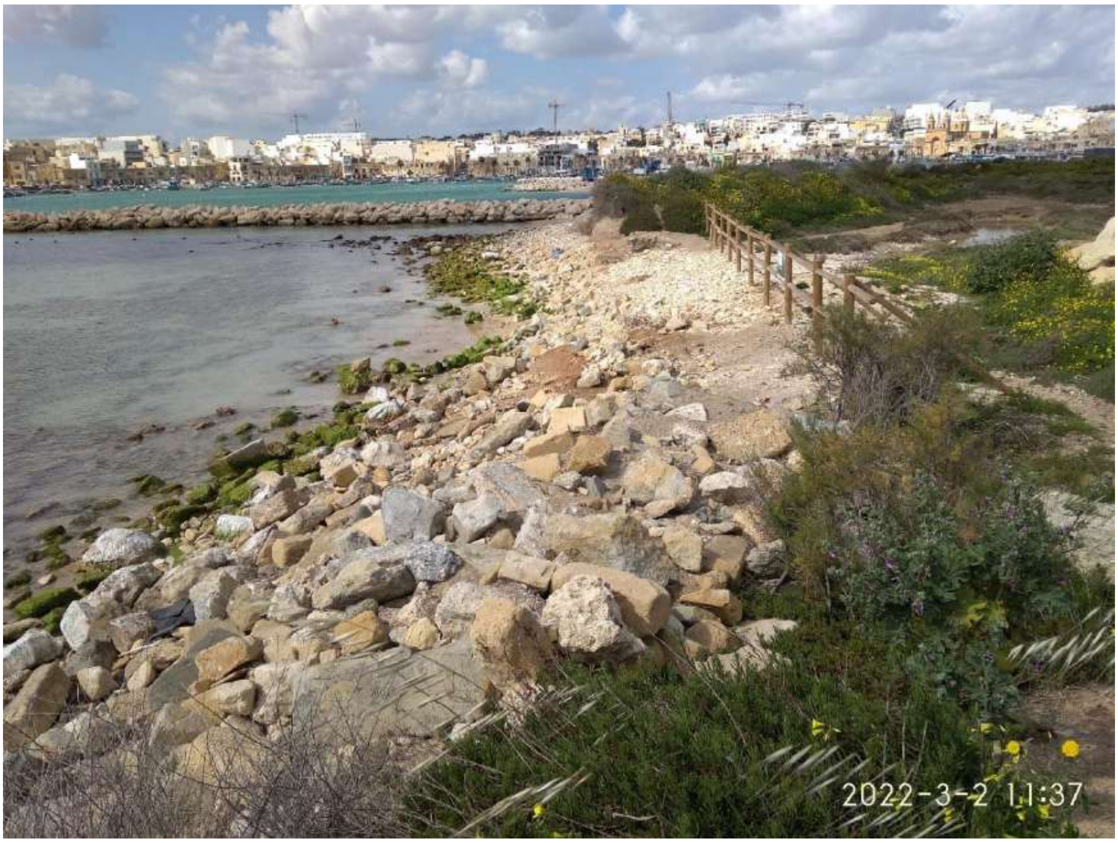


FIGURE 76: PHOTOGRAPH TAKEN IN MARCH 2022 SHOWING A BREAKWATER RECENTLY CONSTRUCTED BY TRANSPORT MALTA

3.1.2 Groundwater

Water level as recorded by the piezometers is approximately 55cm below Ground level. This is the groundwater level which lies more or less at sea level. Table 12 shows the data collected for numerous parameters collected from piezometers installed within the salt marsh of Ballut ta' Marsaxlokk on the 25th and 30th April and 10th May 2022. P1 and P2 represent the locations of the piezometers which were used to measure groundwater levels, as shown in Figure 25. S1 and S2 represent the locations of the soil samples recovered from boreholes located within the catchment of the salt marsh, outside the salt marsh area as shown in Figure 30.

TABLE 12: DATA FOR NUMEROUS PARAMETERS COLLECTED FROM PIEZOMETERS INSTALLED WITHIN THE SALT MARSH OF BALLUT TA' MARSAXLOKK ON THE 25TH AND 30TH APRIL AND 10TH MAY 2022

PIEZOMETER	DATE	HEIGHT OF STANDPIPE ABOVE GROUND LEVEL (CM)	MEASURED WATER LEVEL (CM)	DEPTH FROM GROUND LEVEL (CM)	GROUND LEVEL (CM)	WATER LEVEL ABOVE OD (CM)	CONDUCTIVITY (MICRO SIEMENS)	TEMPERATURE (^{O}C)
P1	25/04/22	89	119	30	83	53	/	/
P2	25/04/22	48	90	42	67	25	93,217	/
S1	25/04/22	53	268	215	268	53	14,185	/
S2	25/04/22	64	226	162	282	48	15,036	19
P1	30/04/22	89	141	52	83	31	7,800	17
P2	30/04/22	48	93	45	67	17	24,800	18
S1	30/04/22	53	264	211	268	57	14,800	20
S2	30/04/22	64	223	159	210	51	6,766	17
P1	10/05/22	89	143	54	83	29		
P2	10/05/22	48	96	48	67	19		

PIEZOMETER	DATE	HEIGHT OF STANDPIPE ABOVE GROUND LEVEL (CM)	MEASURED WATER LEVEL (CM)	DEPTH FROM GROUND LEVEL (CM)	GROUND LEVEL (CM)	WATER LEVEL ABOVE OD (CM)	CONDUCTIVITY (MICRO SIEMENS)	TEMPERATURE (^{O}C)
S1	10/05/22	53	271	218	268	50		
S2	10/05/22	64	228	154	210	56		
S3-S6	NA	NA	NA	NA	NA	NA	NA	NA

Permeability measurements using the Falling Head method are shown in Table 13 and Table 14. All levels are measured from top of standard pipe. In the case of the former, the original water level was recorded at 223cm whereas the Ground Level was recorded at 210cm (LIDAR). In the case of the latter, the original water level was recorded at 268cm whereas the Ground Level was recorded at 210cm (LIDAR).

TABLE 13: RESULTS FOR PIEZOMETER S2 RECORDED ON 23RD APRIL 2022

TIME	WATER LEVEL	TIME	WATER LEVEL
17.53	191	17.45	214
17.54	194	17.46	215
17.55	196	17.47	216
17.56	198	17.48	217
17.57	200	18.00	205
17.58	202	18.02	208
17.42	210	18.52	219
17.43	213		

TABLE 14: RESULTS FOR PIEZOMETER S1 RECORDED ON 30TH APRIL 2022

TIME	WATER LEVEL
17.31	224
17.32	243
17.34	251
17.35	257
17.36	259
17.37	262
17.38	263
17.39	263

3.1.2.1 Run-Off Estimates

It has been concluded that although groundwater exists in the Quaternary deposits, the water table is near sea level and is not capable of recharging the salt marsh.

Runoff is required to recharge the saltmarsh which is estimated to require (approximately):

- 1,400 m^3 to recharge the pool area (Approximate Area= 2,800 m^2)
- An extra 600 m^3 to flood the Raised platform area with a recharge to an average water depth of approximately 25cm. Flooded area = 2,400 m^2 (approximately)

Daily water losses to percolation are estimated to be around 20 m^3. Daily water losses to evapotranspiration depends on the month of the year and were estimated using the USGS Thornthwaite program. The values obtained from such an analysis range from 30mm per month in January and February to 107mm in August.

Runoff required to recharge the salt marsh is generated by:

- the catchment of Il-Ballut ta' Marsaxlokk having an area of 471,000m^2. This catchment is set on agricultural land and has a runoff coefficient of 15%
- Power House road leading to Delimara Power Station having an area of 14,000 m^2. The road is paved and has a runoff coefficient of 70% to 95% but will be kept at 90%.

TABLE 15: MONTHLY RAINFALL DATA TO BE INPUTTED INTO THE USGSD WATER BALANCE THORNTHWAITE PROGRAM

MONTH	YEAR	MONTH NUMBER	AVG MONTHLY TEMPERATURE (°C)	RAIN BENGHISA (MM)
August	2021	8	27	11.0
September	2021	9	24.2	0.0
October	2021	10	20.9	228.0
November	2021	11	17.3	196.0
December	2021	12	14.1	6.4
January	2022	1	12.5	34.0
February	2022	2	12.4	3.0
March	2022	3	13.6	14.0
April	2022	4	15.4	3.0
May	2022	5	19.7	6.0
June	2022	6	23.7	0.0
July	2022	7	26	0.0

TABLE 16: MONTHLY WATER BALANCE ESTIMATED (OUTPUT) USING THE USGS THORNTHWAITE PROGRAM

Date	PET	P	P-PET	Soil Moisture	AET	PET-AET	Snow Storage	Surplus	ROtotal
Aug-2021	139.9	11.0	-129.4	52.9	107.5	32.4	0.0	0.0	13.2
Sep-2021	95.6	0.0	-95.6	27.6	25.3	70.3	0.0	0.0	6.3
Oct-2021	66.6	228.0	150.0	177.6	66.6	0.0	0.0	0.0	14.6
Nov-2021	43.1	196.0	143.1	200.0	43.1	0.0	0.0	120.7	71.7
Dec-2021	33.4	6.4	-27.3	172.7	33.4	0.0	0.0	0.0	31.3
Jan-2022	31.9	34.0	0.4	173.1	31.9	0.0	0.0	0.0	17.2
Feb-2022	33.5	3.0	-30.6	146.6	29.4	4.1	0.0	0.0	7.9
Mar-2022	48.0	14.0	-34.7	121.2	38.7	9.3	0.0	0.0	4.6
Apr-2022	62.4	3.0	-59.6	85.1	39.0	23.5	0.0	0.0	2.1
May-2022	96.8	6.0	-91.1	46.3	44.4	52.3	0.0	0.0	1.3
Jun-2022	128.5	0.0	-128.5	16.6	29.8	98.7	0.0	0.0	0.5
Jul-2022	151.1	0.0	-151.1	4.1	12.5	138.6	0.0	0.0	0.2

3.1.2.2 Runoff Generated by Precipitation

The run-off generated by precipitation at the Powerhouse Road is shown in Table 17.

TABLE 17: RUN-OFF GENERATED BY PRECIPITATION AT THE POWERHOUSE ROAD

PARAMETER	VALUE
Hypothetical rainfall	14mm for March 2022
Runoff Coefficient	0.90
Area of road inside the catchment	14,000m^2
Runoff generated	= 166 m^3

The runoff generated by the catchment for March 2022 was subsequently calculated as shown in Table 18.

TABLE 18: RUN-OFF GENERATED BY THE CATCHMENT

PARAMETER	VALUE
Area of the catchment	471,000 m^2
Run off available (Thornthwaite)	4.6mm
Volume of Runoff generated	2,200 m^3

3.2 GEOLOGY

The soil profile of the coastline when exposed by wave erosion was noted to consist of:

- White Middle Globigerina Limestone layer which may be weathered at the sea level and has a thickness ranging between 0 cm to 60 cm (see Figure 77)
- A grey root zone which is 20 cm thick with cobbles and pebbles
- A brown top soil layer which is 40 cm thick with pebbles and cobbles

FIGURE 77: EXPOSED MIDDLE GLOBIGERINA LIMESTONE FOLLOWING WAVE EROSION AND OVERLYING SOIL. PHOTO TAKEN ON 12TH NOVEMBER, 2021

The weathered layer (overburden) in the upper sector of the catchment seems to be very thin and the probability of occurrence of an aquifer is null. Recent excavation at the top of the road under construction, and leading to St. Peter's Pool, has exposed weathered Middle Globigerina Marly limestone close to the proposed sampling point S5 (Figure 78). Solid, impermeable rock is expected 1m or 2m below Ground Level.

Borehole S3 and S4 tested bedrock at shallow depth above sea level and no water was encountered. Thus, it is very probable that the aquifer is saturated with brackish water considering that the water table is close to sea level and is very close to the coastline. The base of the aquifer lies at 2.6m below sea level and the water table lies at about 0.53m above sea level. For the purpose of the Mathematical model this aquifer shall be defined by a rectangle measuring 200m by 140m (Figure 79).

FIGURE 78: PHOTOGRAPH SHOWING WEATHERED EXPOSED MIDDLE GLOBIGERINA MARLS WITHIN THE SALTMARSH CATCHMENT, SOME 80M NW OF SAMPLING POINT S5

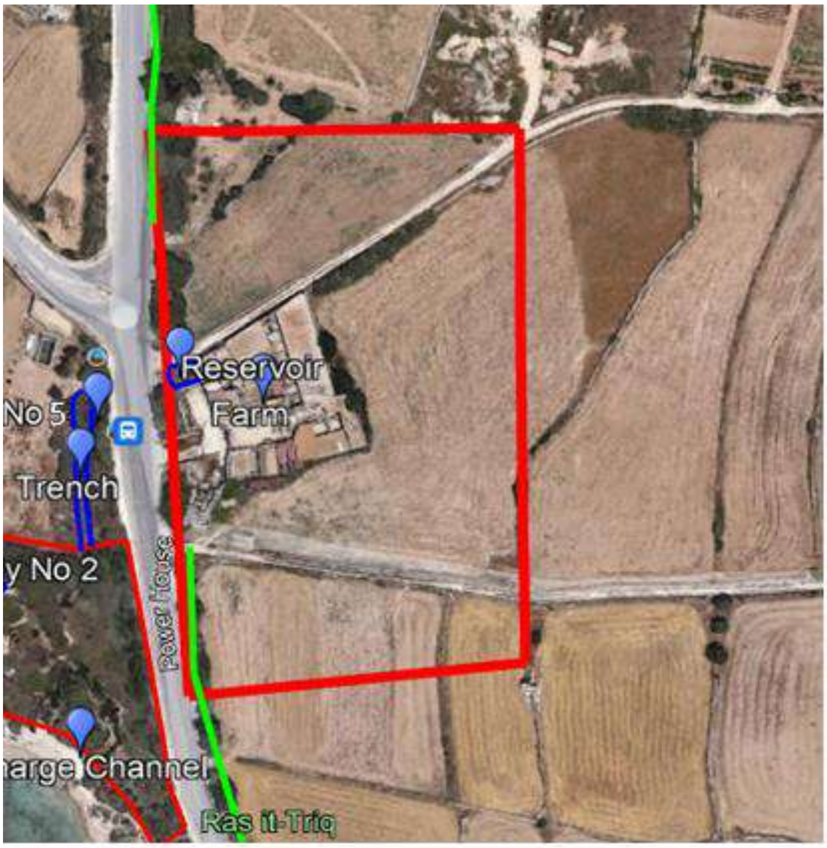


FIGURE 79: GOOGLE IMAGE SHOWING A RECTANGLE MARKING THE EXTENT OF THE AQUIFER THAT SHALL BE TAKEN FOR THE DEFINITION OF THE MATHEMATICAL MODEL

3.2.1 Permeability Tests

Permeability tests on Location S1 yielded a Hydraulic conductivity of $1.49X10^{-4}$ m/s (Figure 80).

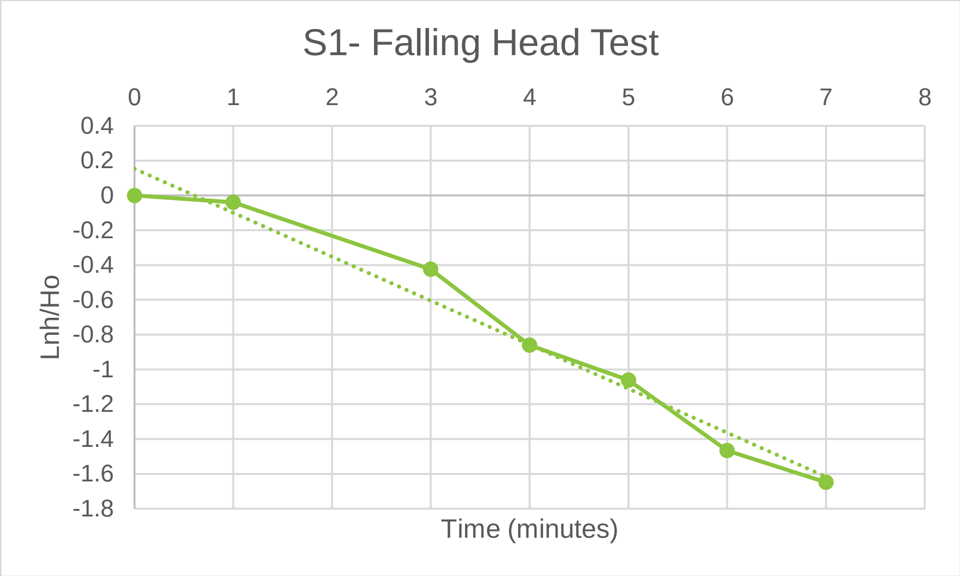


FIGURE 80: FALLING HEAD TEST AT S1

Permeability tests on Location S2 yielded a Hydraulic conductivity of Ks = $1.40X10^{-4}$ m/s (Figure 81).

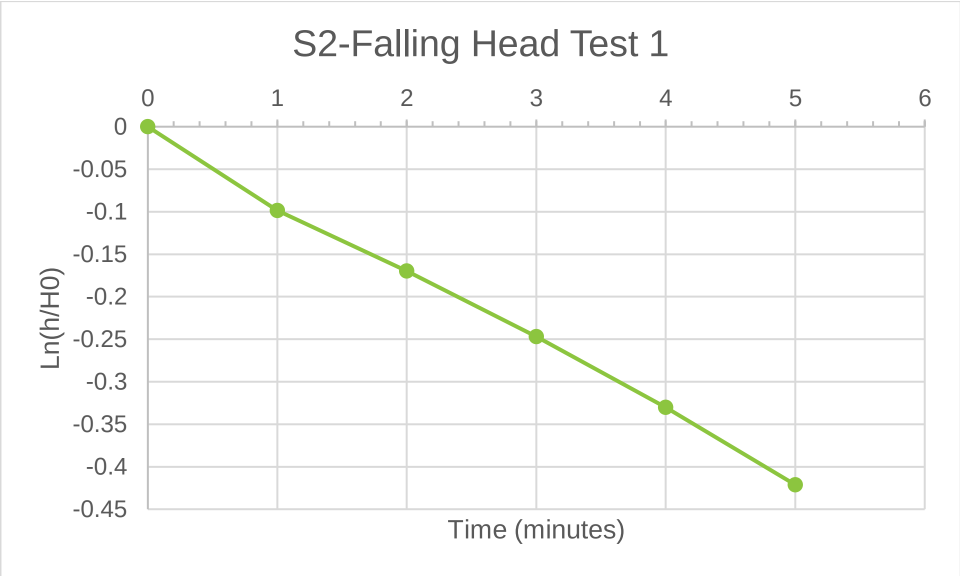


FIGURE 81: FALLING HEAD TEST AT S2

During the periodic walk over surveys of the site, the rate of fall of the water level (Ks) in the pools which was usually measured over several days yielded the following result: Ks = $2.49X10^{-7}$m/s.

3.2.2 Geomorphology and Soil

3.2.2.1 Geomorphologic features

The main geomorphologic features within the area of influence of the site are (Figure 82):

- Marsaxlokk Bay is deep embayment - the marine extension of Wied ta' Hal Ginwi and represents the submerged part of a broad valley which was drowned following a marked rise in sea level following the last glaciations.

- Wied tal- Ballut is a minor tributary of the river system

- The Middle Globigerina Limestone slopes of il-Ballut discharge run-off into the bay. Other slopes bounding the bay are the Hal Ginwi and Il-Fiddien Lower Globigerina Limestone slopes.

- The Ballut Salt Marsh appears to represent the emergent part of a shore platform formed by the recession of the contact Middle Globigerina Limestone /Lower Globigerina Limestone. On the coastline it is bounded by a man-made sand ridge.

Wied Tal-Ballut is a tributary of this broad valley, at the site represented by an erosional channel now filled with marine sand and gravel following the last post glacial rise in sea level.

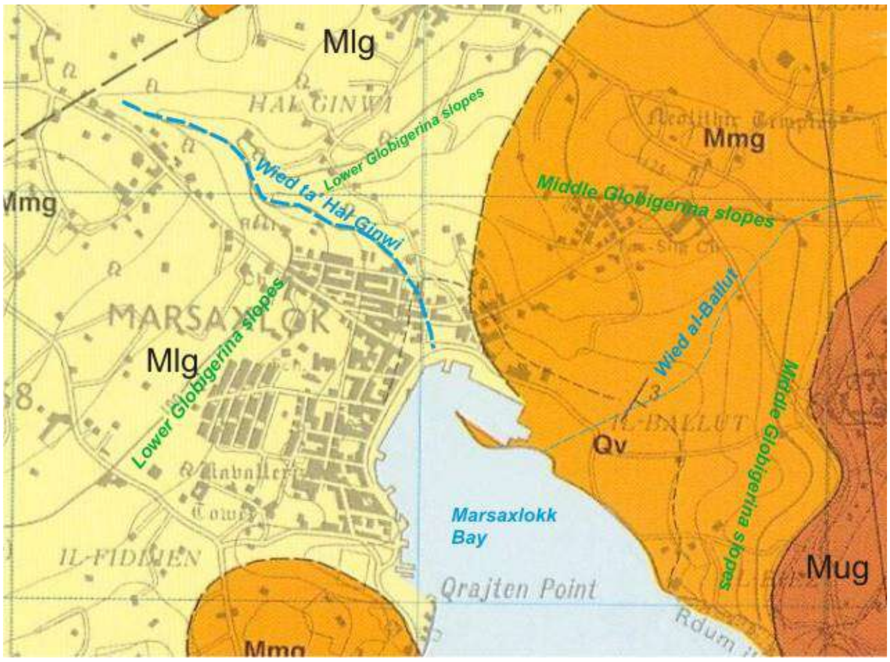


FIGURE 82: MAIN GEOMORPHOLOGIC FEATURES OF THE SITE

It is interesting to note that in Lang's 1960 soil map (see Figure 83) the site is called a fish pond and not a salt marsh suggesting that there has been a lot of disturbance since that time. The shape of the water depth contours also suggest that the seabed is in fact a buried valley. Water Depths are under 1 fathom (2.8m) at il Menqa and the inner reaches of the bay and increase gradually to 5 fathoms (14m) at the mouth of the bay.

3.2.2.2 Soil

Soil testing including determination of particle size distribution was carried out in accordance to BS 1377-2:1990 Clause 9.2/9.3. Test results of the particle size distribution are listed in Table 19 below.

For the sample from field location S2, it was noted that when the soil is dry, the silt is light brown and very hard and brown when wet. It is blocky with scattered gravel up to 5mm dimeter usually angular sometimes platy but not rounded.

TABLE 19: SOIL SAMPLES SUMMARY OF THE SIEVE ANALYSIS RESULTS

TEST NO	BOREHOLE NUMBER	SAMPLE NO	DATE SAMPLED	% SILT AND CLAY	% SAND	% MOISTURE	CLASSIFICATION	BULK DENSITY (G/CM^3)
TCR1	S1	S1-1	13/04/22	8.8	72.5	15.7	Silty Sand	1.089
TCR 2	S2	S2-2	13/04/22	7.8	55.8	24.7	Silty sand	1.205
TCR 3	S1	S1-2	13/04/22	7.7	35.3	9.7	Sand	1.153
TCR 4	S2	S2-1	13/04/22	31.1	28.8	17.4	Silty sand	1.085
TCR 5	S2	1m	13/04/22	60.0	35.1	34.1	Silty clay loam	1.825*
TCR 6	P1	P1-1	28/03/22	28.6	55.8	19.0	loam	1.319
TCR 7	P1	P1-2	28/03/22	38.0	59.7	31.2	loam	1.964*
TCR 8	P2	P2-1	28/03/22	67.6	26.6	14.1	Silty clay loam	1.650*
TCR 9	P2	P2-2	28/03/22	70.0	21.0	31.0	Silty clay loam	1.655*
TCR 10	S5	S5	27/05/22	33.9	42.8	7.2	loam	0.960
TCR 11	S3	S1	27/05/22	25.0	32.4	9.7	Silty clay loam	1.230
TCR 12	S6	S6	27/05/22	31.7	59.2	12.5	Sandy clay loam	1.080
TCR 13	S4	S4	27/05/22	27.9	57.2	8.9	Sandy clay loam	1.17

The soils found in the area of influence and in the environs of the site are (Figure 83 and Figure 84):

- Tal–Barrani soil Series and
- San Biagio Soil Series

San Biagio soil series corresponding more or less to the extent of the Middle Globigerina Limestone outcrop (see Figure 82) while the Tal-Barrani soil series corresponds the Lower Globigerina Limestone outcrop in Wied ta' Hal Ginwi. According to Lang's soil classification, the soil at il-Ballut belongs to the San Biagio Soil Series.

San Biagio soil series are shallow to moderately deep, whitish, medium texture, with a week subangular blocky structure. They are slightly decalcified with an A C R profile developed on calcareous parent material. They occur on gentle slopes at the foot of Globigerina scarps and on dissected low plateaus and are generated from Globigerina Limestone. The phosphatic nodules present are incorporated in the parent material during the original rock weathering as well as during terracing and levelling works. The total calcium carbonate content ranges from 57 to 80%. The organic matter content is 2%.

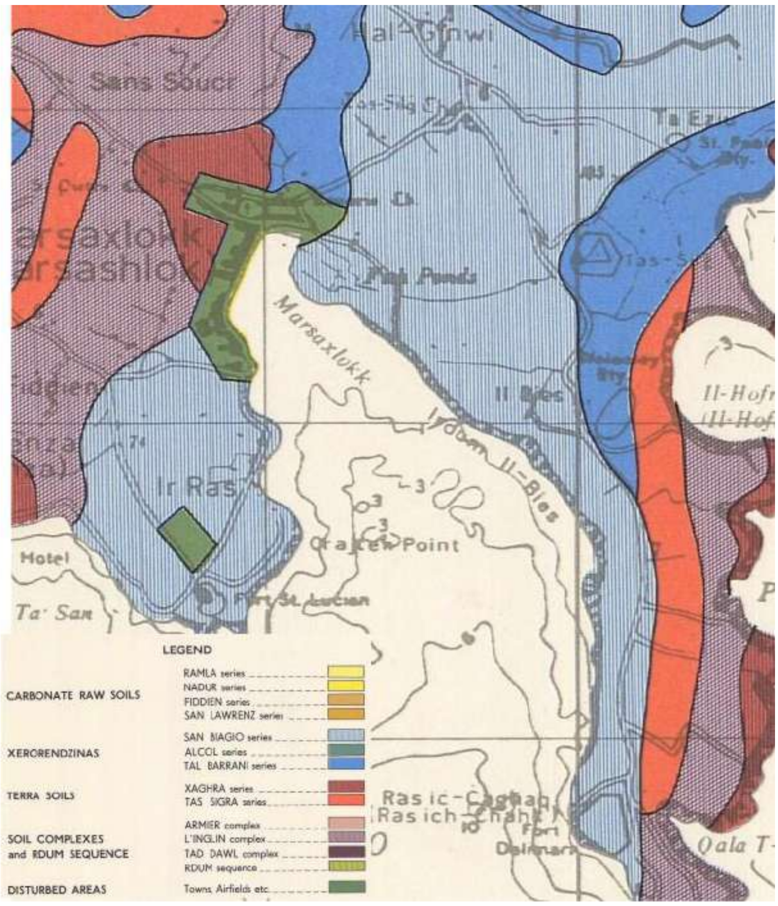


FIGURE 83: LANG'S SOIL MAP (PART OF) OF THE SITE AND ITS ENVIRONS (LANG, 1960)

FIGURE 84: PHOTOGRAPH SHOWING A TYPICAL SOIL PROFILE LOCATED AT THE SITE OF BH-S2

- **Soil Landscapes-Malsis 2003**

Soil Landscapes are areas of land with unique landform features and characteristic soil types. Because landscapes and their soils are formed by the same natural processes, Soil Landscapes are closely linked to other natural features such as vegetation, geology and hydrology.

The soil Landscapes Map produced by the MALSIS 2003 program is shown in Figure 85. According to this soil map the soil at Delimara is classified as a Calcisol.

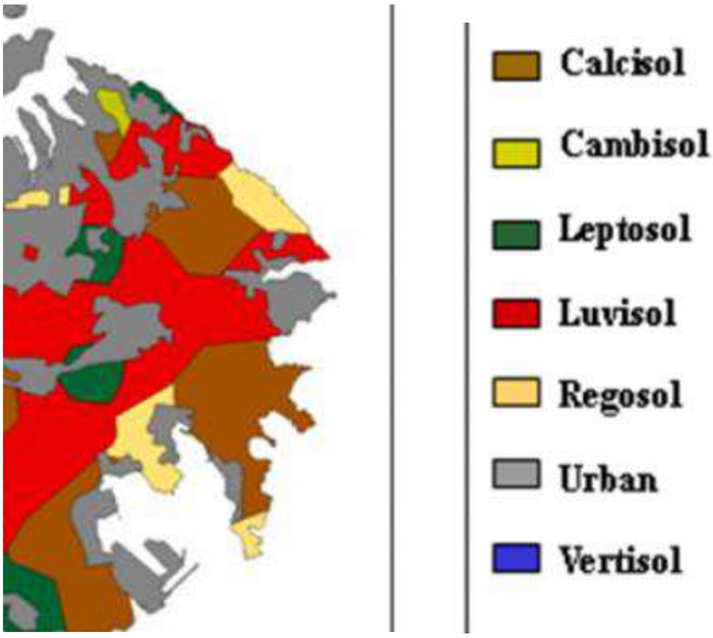


FIGURE 85: SOIL LANDSCAPES MAP OF THE DELIMARA PENINSULA[23]

According to the World Reference Base for Soil Resources (WRB), a Calcisol is a soil with a substantial secondary accumulation of lime. Calcisols are common in calcareous parent materials and widespread in arid and semi-arid environments. Formerly Calcisols were internationally known as Desert soils and Takyrs.

Calcisols are developed in mostly alluvial, colluvial and aeolian deposits of base-rich weathering material. They are found on level to hilly land in arid and semi-arid regions. The natural vegetation is sparse and dominated by xerophytic shrubs and trees and/or ephemeral grasses. A soil section of the Salt Marsh is shown in Figure 86. As has already been noted this is artificial as this is not the soil in place.

[23] Vella, S. J. (2003). Soil Survey and Soil Mapping in the Maltese Islands: the 2003 Position. European Soil Bureau – Research Report No. 9.
Https://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.380.1490&rep=rep1&type=pdf

FIGURE 86: PHOTOGRAPH SHOWING EXPOSED SOIL PROFILE AT THE SALT MARSH

3.2.3 Geology, Hydrology and Hydromorphology

The watershed exists on a relatively isolated slope along the Delimara ridge surrounded by relatively steep slopes on all sides descending into the bay. The geology consists of a topsoil and weathered layer forming an apron of unknown thickness covering an underlying impermeable Middle Globigerina Limestone rock unit (Figure 87). This rock stratum typically comprises pale-grey globigerinid biomicrites. The fauna associated with this layer include the echinoids *Schizaster eurynotus* and *Brissopsis* and the bivalves. *Chlamys* and *Flabellipecten*. Thalassinoidean burrow systems are also prominently developed. Some vertebrate remnants include the crocodile *Tomistoma*, the turtle *Trionyx* and the seal *Phoca*. The maximum thickness of this Globigerina layer is of 110m near Delimara Point, Malta.[24]

The detached nature of the watershed reduces the probability of groundwater input into the aquifer from adjacent catchments, offering a more closed system of recharge and discharge, simplifying the water budget analysis.

[24] Pedley, H.M., House, M.R., and Waugh, B., 1976, The geology of Malta and Gozo: Proceedings of the Geologists' Association 87, pp. 325–341.

FIGURE 87: GEOLOGY OF THE SALT MARSH AND CATCHMENT (SOURCE: OED, 1993)

Il-Mara member of the Lower Coralline Limestone formation has been encountered in the subsurface of the proposed site some 17m below the site (Figure 88). This rock unit is absent from the Northern areas of Malta. The Name il-Mara derives from the locality of il-Mara in eastern Malta where this member is best developed and was accessible in a Quarry cut in the cliff face and which now has been backfilled with fly ash. Best exposures lie along the Xghajra coastline. It is composed of massive bedded pale-yellow limestone characterised by the giant foraminifera known as Lepidocyclina.

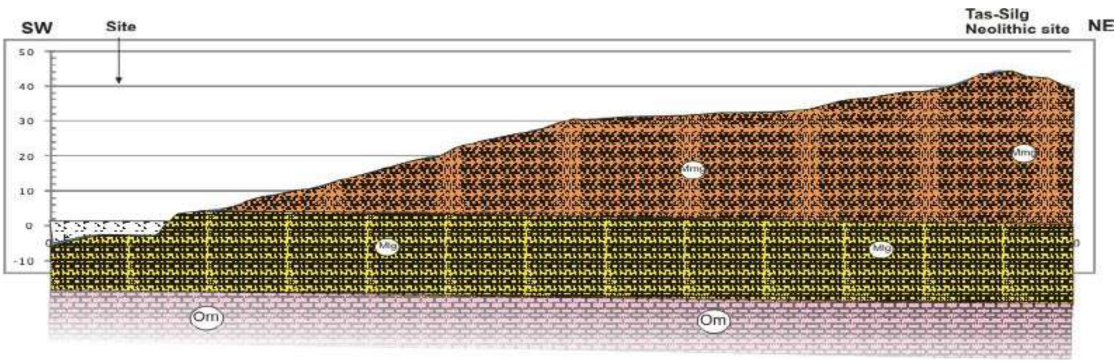


FIGURE 88: SCHEMATIC GEOLOGICAL CROSS-SECTION ACROSS THE STUDY AREA FROM THE SITE ON THE LEFT TO THE TAS-SILG NEOLITHIC SITE.

The Upper Globigerina Limestone member forms a spur at Tas-Silg Battery and only covers a small percentage of the total area of the Ballut watershed. The tripartite subdivision of the Upper Globigerina Limestone member comprises:

- Yellow mottled foraminiferal wackestone facies at the base
- Coccolith grey marly facies – middle bed
- Yellow foraminiferal wackestone facies

These three beds comprise the topmost member of the Globigerina Limestone and usually are more or less equal in thickness. The basal and upper beds are composed of yellow foraminiferal wackestones. Goethite concretions are common and impart an orange mottling to the Limestone due to oxidation. As with the Lower Globigerina layer, bedding is absent due to intense Thalassinoidean bioturbation. Macrofauna is mainly represented by disarticulated and often fragmented pectinid shells. They exhibit honeycomb weathering due to intense bioturbation by Thalassinoides. The Middle grey marly bed consists of a usually grey coccolith bearing marly limestones petrographically described as mudstones together with planktonic and benthonic foraminifera. This bed contains bored lignite.

Quaternary deposits occurring in the form of valley fill have been identified within the Study Area and are 4m to 6m thick. These deposits are of primary importance as they appear to form a local aquifer capable of sustaining freshwater vegetation like reed beds. A site investigation has revealed that the site is located on an ancient beach and that the 0.5m thick topsoil and slope scree is underlain by marine beach sand and gravel 3m to 6m thick resting on impermeable Middle Globigerina Limestone.

3.3 HYDROLOGY, HYDROGEOLOGY AND HYDROMORPHOLOGY

3.3.1 Hydrological features

The hydrological features at the site are:

- The Catchment of the watercourse of Wied Tal-Ballut which discharges into the site
- The catchment of the road leading to the Delimara Power House
- The mean sea level aquifer represented by a layer of Quaternary Deposits which could act as an aquifer resting on the impermeable bed composed of Middle Globigerina marls and marly limestone
- Il-Ballut Salt Marsh and
- A disused network of irrigation channels

The last hydrological feature in the aforementioned list, i.e. the disused concrete irrigation channels, are found at the eastern margin of the saltmarsh watershed (see Figure 90 and in greater detail in Figure 91) and once (in the 1980s) received recycled water from Sant Antnin recycling plant. Since that time these have fallen into disuse as agricultural activities at Delimara nowadays consist mainly of cultivation of wheat and Barley for livestock during the wet season. These have been observed as shown in Figure 92 but not recorded.

The catchment of il-Ballut ta' Marsaxlokk (See Figure 89) measures about 471,000 m^2 and extends to il-Batterija tas–Silg to the NE and the tas-Silg Archaeological site to the North.

FIGURE 89: MAP SHOWING THE CATCHMENT OF IL-BALLUT TA' MARSAXLOKK

FIGURE 90: LOCATION OF DISUSED CONCRETE IRRIGATION CHANNEL RELATIVE TO THE LOCATION OF THE SALT MARSH

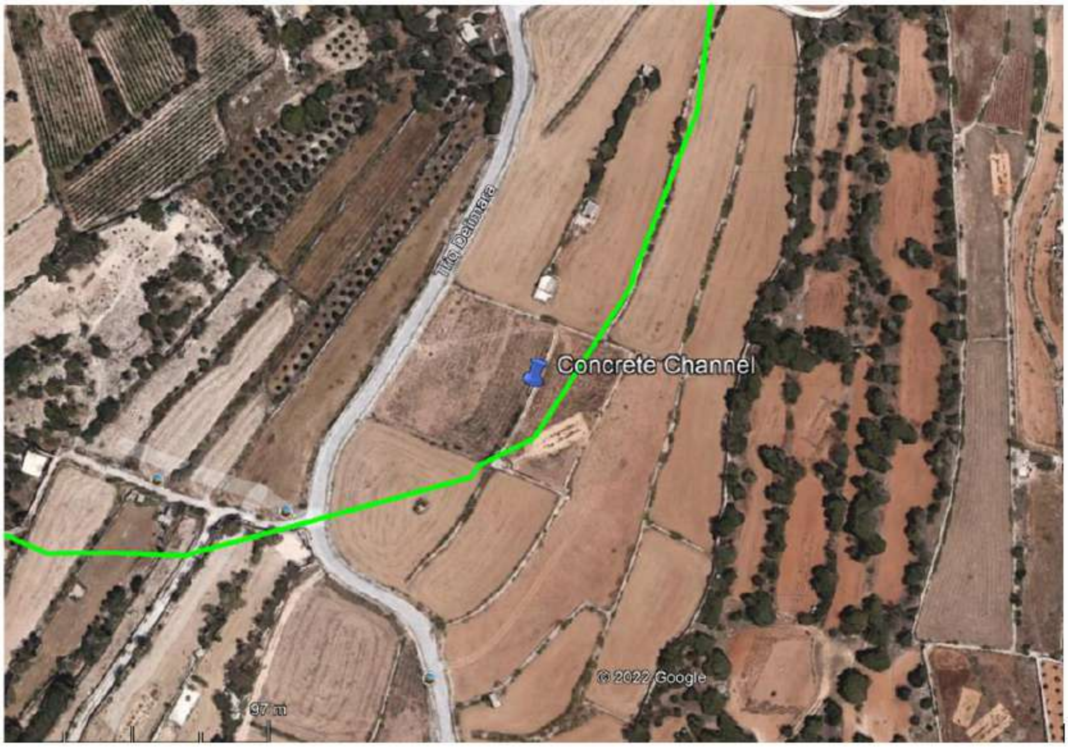


FIGURE 91: LOCATION OF A DISUSED CONCRETE IRRIGATION CHANNEL, GREEN LINE MARKS THE WATERSHED OF THE SALTMARSH

FIGURE 92: PHOTOGRAPH SHOWING THE IRRIGATION CHANNEL AT TAS-SILG. CHANNEL IS ABOUT 30CM WIDE

The road leading to Delimara Power Station (DPS) is built on a raised embankment and obstructs the discharge of runoff into the marshland. For this reason, a small reservoir has been built to catch runoff from the Il-Ballut ta' Marsaxlokk catchment. From this point, runoff crosses the road in two subsurface pipes each 80cm in diameter and is discharged into the trench which conveys runoff to the saltmarsh (Figure 93).

The maximum height of the water eventually retained by the salt marsh depends on the ground level of a trench which discharges excess runoff water into the sea. From Lidar Data it has been concluded that the maximum height of the water that can be presently reached in the salt marsh is +0.90m.

Some of the runoff generated by the road is also discharged directly on the margin of the saltmarsh through metal drains purposely embedded in the road (Figure 94). Part of this water coming from the northwest sector of the catchment is however partly diverted by Triq il-Wilga and discharges into Xatt is-Sajjieda (Figure 95).

FIGURE 93: GOOGLE IMAGE SHOWING THE PATH TAKEN BY RUNOFF TO REACH THE SALT MARSH

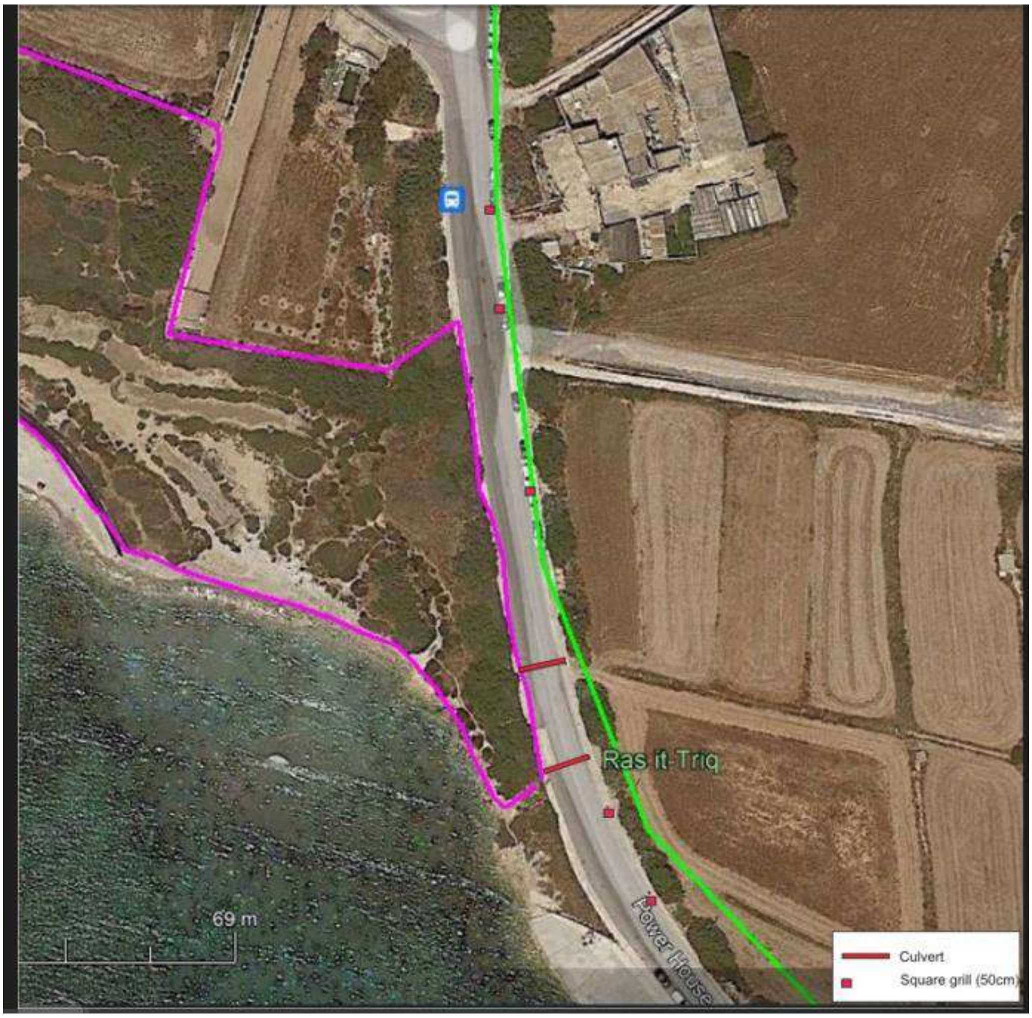


FIGURE 94: GOOGLE IMAGE SHOWING THE CULVERTS AND GRILLS THAT ARE SEEN IN POWERHOUSE ROAD DISCHARGED INTO THE SALTMARSH

FIGURE 95: GOOGLE IMAGE SHOWING THE PATH TAKEN BY RUN-OFF – NOTE PART DIVERSION TO TRIQ IL-WILGA

Rainwater run-off is intercepted by a small reservoir about 1.5m deep measuring about 4m by 4m and conveyed to a trench on opposite side of the road via two 80cm diameter pipes buried underneath the road leading to the DPS. From this point runoff travels along a trench dug parallel to the road and is eventually discharged into the salt marsh

Run-off is also intercepted by the Road leading to the Delimara Power Station, from the SW direction. Run-off is drained by two narrow cast iron grills and culverts crossing the road which discharge directly into the salt marsh.

The rock exposed at sea level and above at the site is the Middle Globigerina Limestone Marls and marly limestones which are mostly impermeable. Therefore, there is no mean sea level aquifer at the site.

Ground investigation has also identified an aquifer represented by the Quaternary deposits which at the point investigated is 4m to 4.6m thick and is composed of red silty sand.

3.3.2 Hydromorphological Characteristics

The salt marsh may conveniently be divided into two main sectors (Figure 96). On the SW sector close to the coastline, the marshland comprises of three artificial pools/gullies of variable depth relative to the surrounding terrain which ranges from 30cm to 60cm.

The ground levels of the area covered by the three pools ranges from 35cm to 65cm above sea level while ground level at the raised rectangular platform ranges from to 65cm to 85cm on average (Figure 97).

The pools in the SW sector have the following approximate dimensions:

- Pool No. 1: 3m wide and 25m long
- Pool No. 2: 4m wide and 36m long
- Pool No. 3: 5m wide and 60m long

Other important features within the perimeter of the salt marsh or next to it include (Figure 97):

- Pool No. 4, measuring about 12m^2 and is 60cm deep
- Pool No. 5, a smaller pool measuring about 50cm in diameter which has been observed to be filled with fresh water
- Trench that conveys runoff from the Ballut catchment to the saltmarsh
- A Reservoir cut in the country lane next to a farm, which collects runoff from the catchment of Il-Ballut ta' Marsaxlokk (Figure 98). This small reservoir measures about 4m^2 and is connected to the trench lying across the road by two subsurface 80cm diameter pipes. These two pipes convey rainwater runoff to the salt marsh.

The above runoff-route explains the main source of freshwater input into the saltmarsh, particularly when there is sufficient rainfall to generate runoff.

The northwest sector comprises a rectangular platform measuring approximately 70m by 40m. This sector is almost entirely covered by vegetation. It is slightly raised above the level of the three pools as on average it stands at about 0.70m above sea level. It also contains a pond currently about 60cm deep and covering an area of about 15m^2 dug by Nature Trust Malta Operatives that manage the site. This pond identified as Pool No. 4, is usually the last pond to dry up, following months without sufficient precipitation.

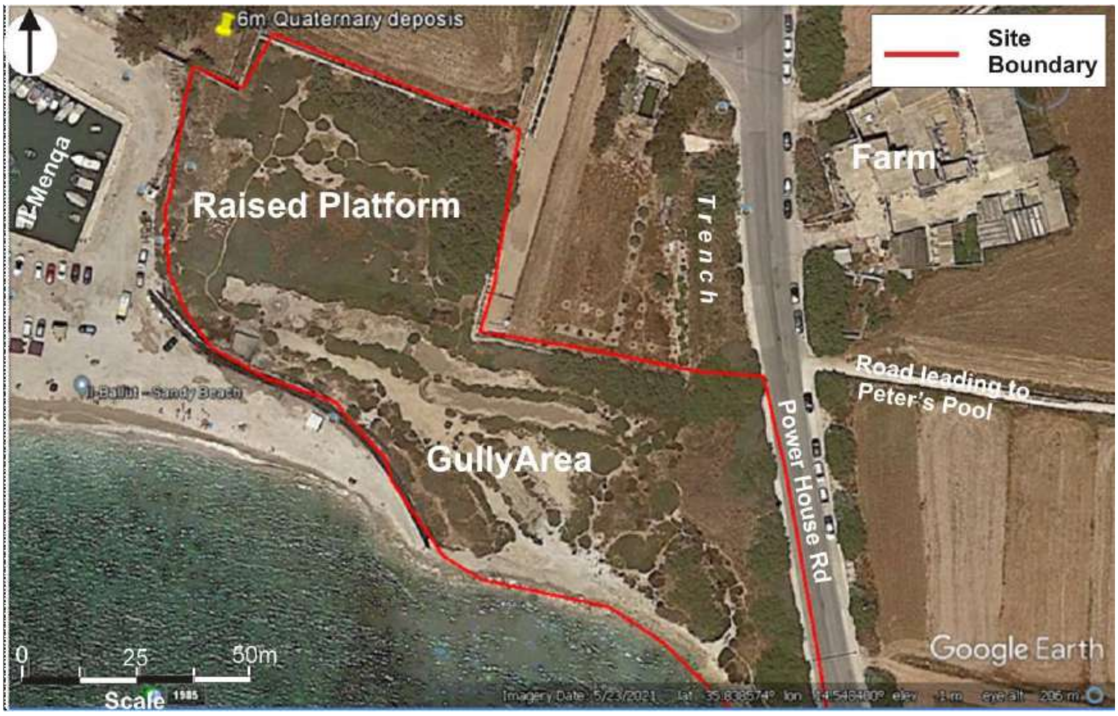


FIGURE 96: GOOGLE IMAGE SHOWING THE SALTMARSH MORPHOLOGY SUBDIVISION

FIGURE 97: GOOGLE IMAGE SHOWING THE SALT MARSH INCLUDING ITS BOUNDARY (RED LINE) ITS SPECIAL FEATURES AND THE SURROUNDING TERRAIN.

FIGURE 98: GOOGLE IMAGE SHOWING DETAILS OF THE RESERVOIR AND THE TRENCH ACROSS POWER HOUSE ROAD

The highest water level in the saltmarsh is primarily determined by the ground level of a trench that leads excess runoff from the pool area to the coastline on the east (Figure 99). The ground level of the discharge point to the sea varies on a seasonal basis as it is directly affected by wave erosion. During the present study, it was measured at about 90cm above sea level (LIDAR data). Whenever there is abundant rainfall, once the water level in the salt marsh reaches +0.90m (approximately) excess water is discharged into the sea through the channel that connects the salt marsh to the coastline.

FIGURE 99: GOOGLE IMAGE SHOWING THE DISCHARGE POINT OF THE SALT MARSH

The contour map shown in Figure 23 has been derived from the CLOUdISLE LIDAR map (2018) gives an idea of the ground levels found in the salt marsh. The Gully area has predominant contour of 0.5m, while the rectangular raised platform lies at an approximate level of about 0.7m to 0.8m. The three pools and the Trench running parallel to Power House Road clearly stand out. Figure 100 and Figure 101 are Cross-sections across the saltmarsh. These clearly show the ground levels that are being dealt with in this project.

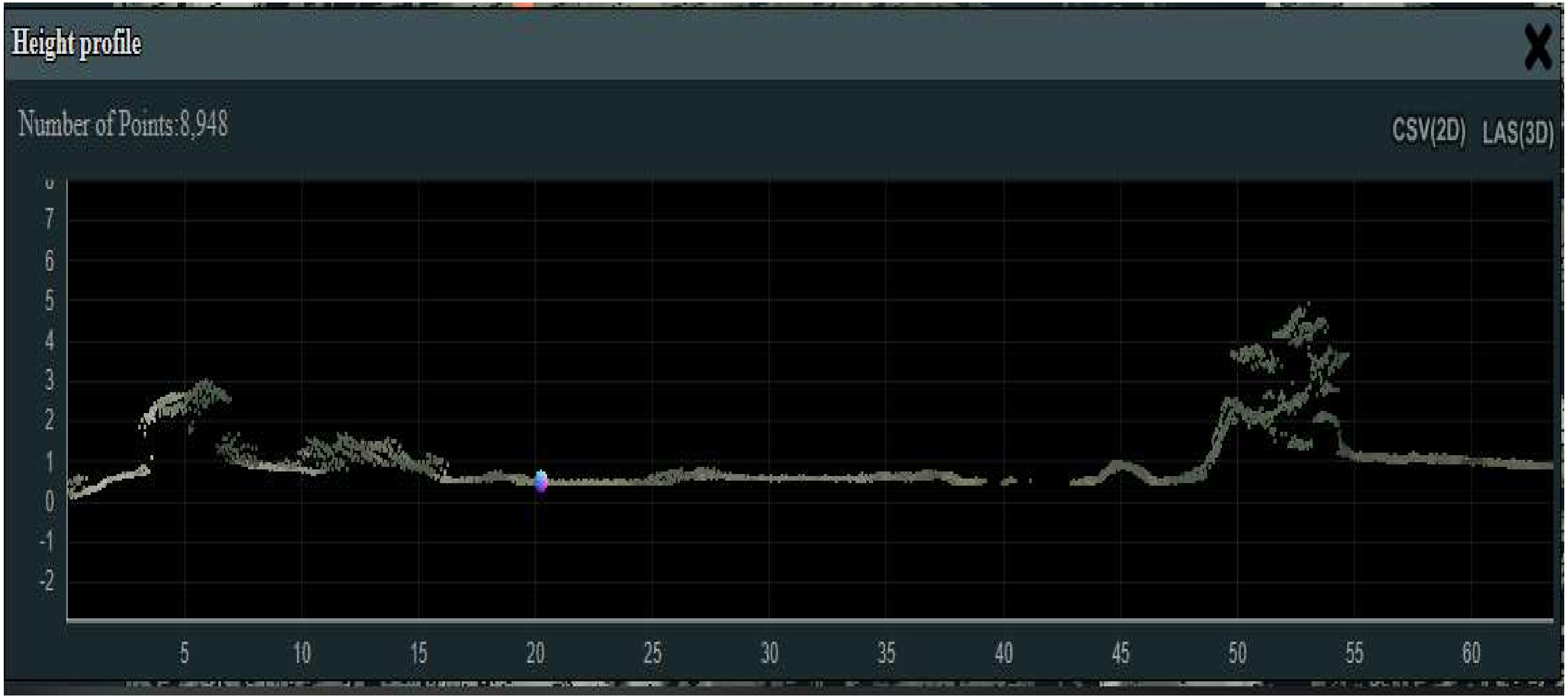


FIGURE 100: SE- NW SECTIONS FROM THE COASTLINE ACROSS POOL NO. 1 TO POOL NO. 3 ON THE RIGHT (ALTITUDE AND DISTANCE ARE IN M)

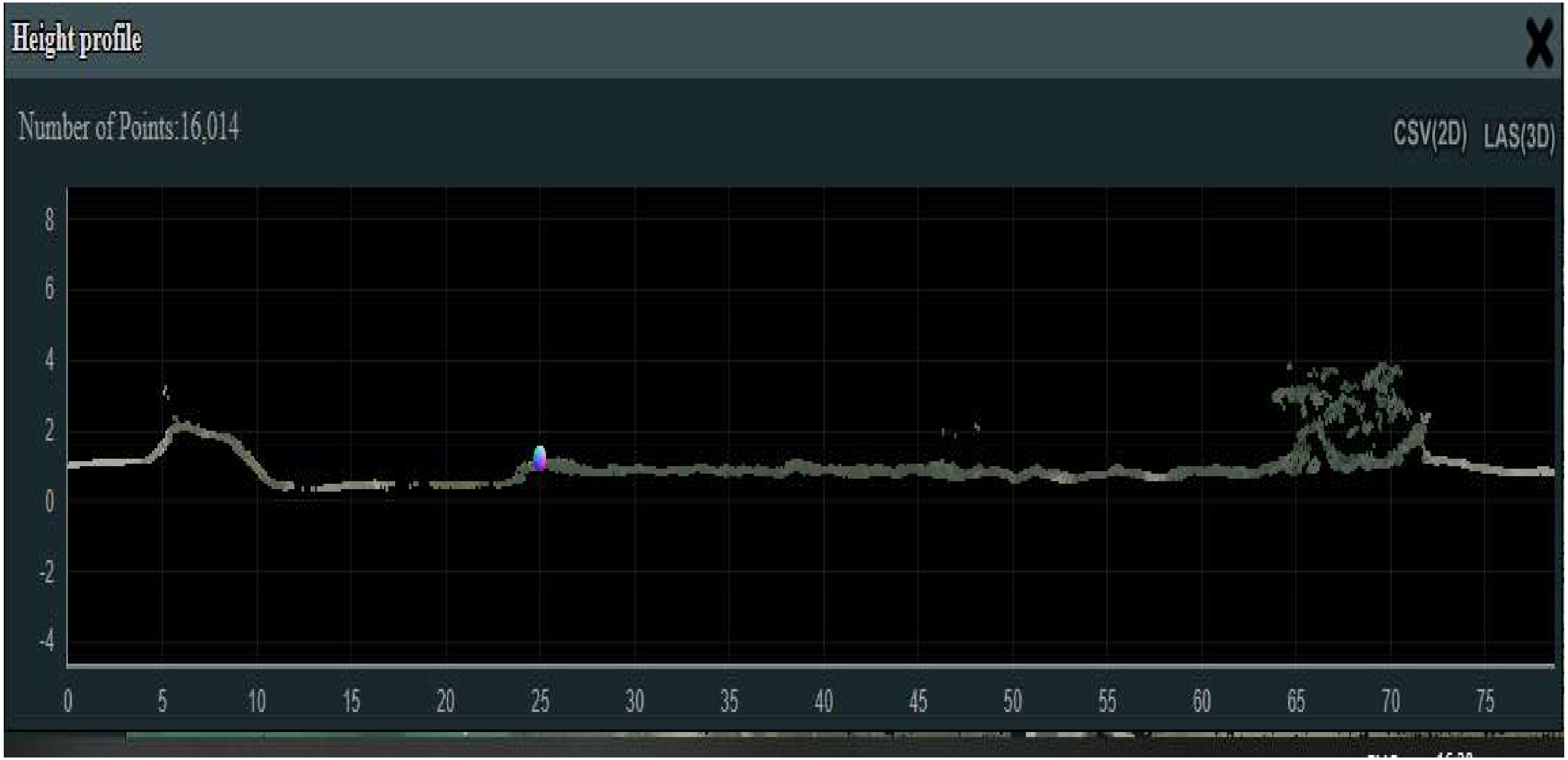


FIGURE 101: CROSS-SECTION USING LIDAR DATA FROM THE SE COASTLINE ACROSS POOL NO. 3 AND TO THE PLATFORM ON THE RIGHT 35CM TO 50CM IN THE POOL AREA TO 65CM TO 85CM IN THE RAISED PLATFORM AREA. (ALTITUDE AND DISTANCE ARE IN M)

3.4 HYDRODYNAMIC MODEL

3.4.1 Geographic Setting

The hydrological system studied is a layer of Quaternary deposits filling an ancient valley located in the catchment of the saltmarsh at il-Ballut Ta' Marsaxlokk. The salt marsh is recharged by:

- Rainfall accompanied by sufficient surface runoff from the catchment
- Sufficient rainfall to trigger rise of the water table above the deepest point of the saltmarsh estimated to be 0.35m above sea level.

3.4.2 Hydrostratigraphic Setup

FREEWAT V.2.9 (2019)-GIS-integrated FREEWAT platform for the simulation of groundwater flow in hydrogeological systems - shall be used to model a simple unconfined aquifer composed of Quaternary valley fill, 4.6m thick discharging into the sea. The original conceptual model produced considered a continuous Quaternary layer extending along the whole Catchment of il-Ballut ta' Marsaxlokk which could recharge (or not recharge) the Salt marsh (Figure 102).

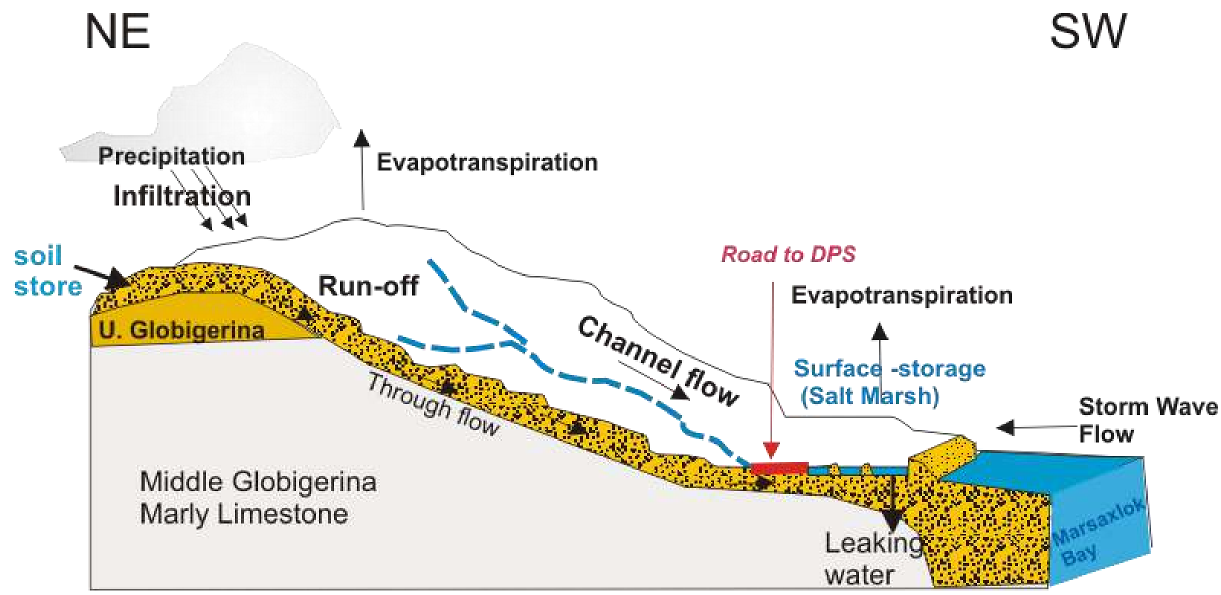


FIGURE 102: SCHEMATIC REPRESENTATION OF THE ORIGINAL CONCEPTUAL MODEL

Ground investigation has revealed that only the Quaternary valley fill could in fact act as an aquifer capable of storing groundwater.

From the ground investigation one hydrostratigraphic unit has been identified at il- Ballut consisting of:

- An upper light brown to pink sandy silty unit 6.6m thick hosting a porous phreatic aquifer (Top at +2.60m and Base at -2.40m)
- resting on impermeable marls of the Middle Globigerina Limestone Mb and connected to the saltmarsh with lowest level standing at 0.35m above sea level

The porous aquifer is hydraulically connected to the sea where the water level is considered to be 0.0m. At the saltmarsh, the water level stands at 0.25m below the deepest point in the pond (0.35m above sea level). Water level stands at 0.25m above sea level. Figure 103 shows the potentiometric map for the aquifer, wherein water flow is from east to west as the system discharges into the sea at the west end. This is shown in Figure 104 and graphically in Figure 105. “No-flow” conditions are set along the northern and southern boundary and also at the bottom of the aquifer which stands on Middle Globigerina marl.

From the cross-section derived from LIDAR data, the following data were obtained:

- Water level P1 = 31cm above sea level
- Water level S1 = 57cm
- Top Aquifer: + 3.2m
- Base Aquifer: -2.4m
- Aquifer thickness = 5.6m

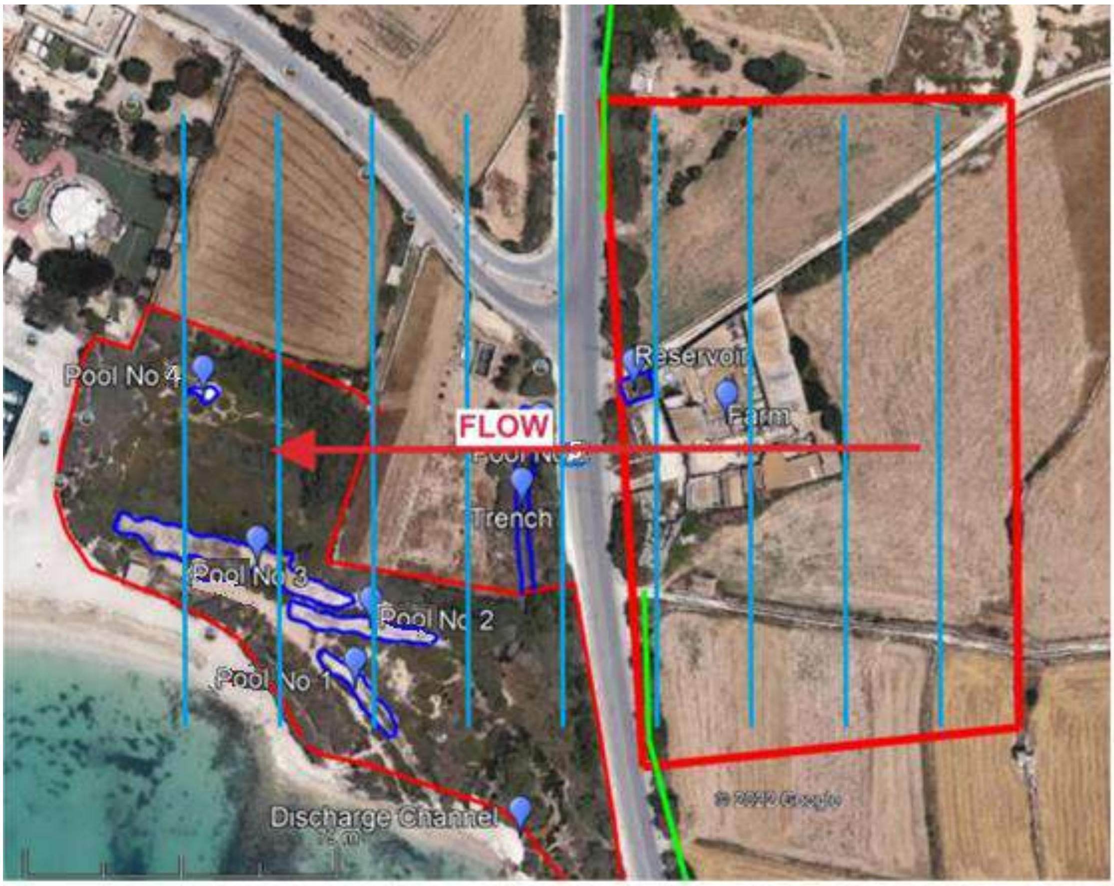


FIGURE 103: POTENTIOMETRIC MAP OF THE AQUIFER

FIGURE 104: CROSS-SECTION ACROSS THE AQUIFER FROM THE EAST (LEFT) TO THE COASTLINE ON THE RIGHT (WEST) DERIVED FROM LIDAR DATA

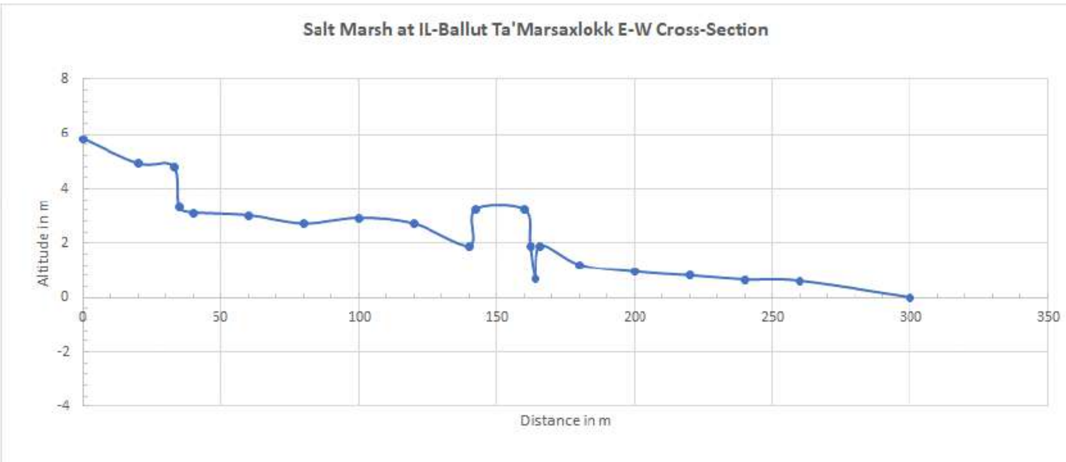


FIGURE 105: CROSS-SECTION ACROSS THE AQUIFER IDENTIFIED DURING GROUND INVESTIGATION FROM THE EAST (LEFT) TO THE COASTLINE ON THE WEST (RIGHT)

3.4.3 Introduction to the Modelling process

The first part of the study dealt with the definition of the conceptual model for the investigation of the aquifer under constant conditions.

In the second part of the study the model was run under stress conditions defined by varying monthly precipitation data to investigate the piezometric level with monthly rainfall. A rise of the water table of 0.25 cm will initiate recharge of the saltmarsh during one annual rainfall cycle. This can be achieved by a rise in sea level (Global warming) or by deepening the pools by about 30cm.

3.4.3.1 Hydrodynamic conditions I

Ground investigation has revealed that an aquifer is established in the Quaternary deposits within the watershed of il-Ballut ta’ Marsaxlokk. The maximum thickness of the Quaternary deposits measured was 5.6m.

- Top aquifer at Southern end of study area (Piezometer S2): +0.51
- Hydrodynamic gradient: 0.20 per 100m
- Top aquifer at Northern end of study area (Piezometer S2+ 140m): +0.77

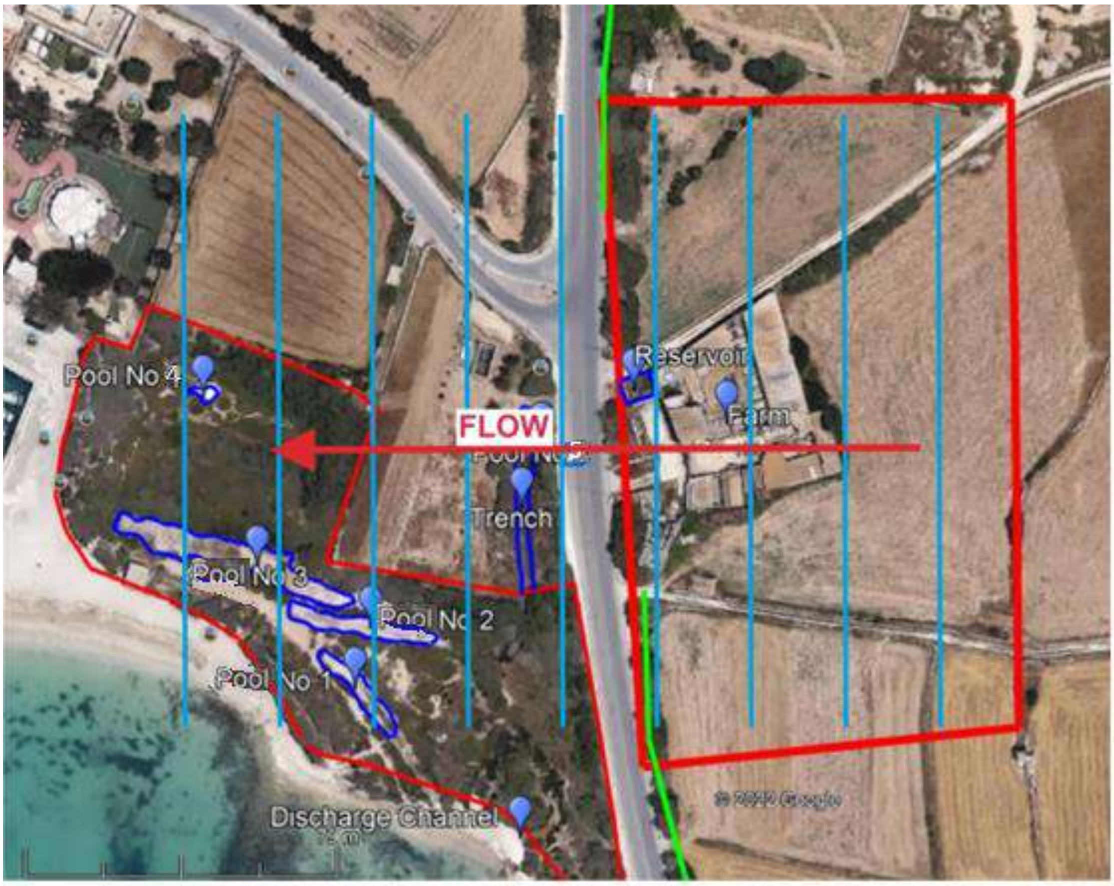


FIGURE 106: HYDRODYNAMIC OF THE GROUNDWATER FLOW SYSTEM (PLAN VIEW; VALUES IN M ABOVE THE MEAN SEA LEVEL

The system discharges groundwater from east to west into the sea. No-Flow conditions are set along the northern and southern boundary of the aquifer as in these directions the Quaternary deposits taper out to zero thickness (Figure 106).

3.4.3.2 Hydrodynamic conditions II

Figure 107 shows the two piezometers set up in the Quaternary deposits and the corresponding hydraulic head which according to the water levels measured has a hydrodynamic gradient of 0.26m per 130m or 0.20 per 100m.

– Modelling groundwater flow using FREEWAT V.2.9 (2019) to model a simple unconfined aquifer composed of Quaternary valley fill, 4.6m thick discharging into the sea

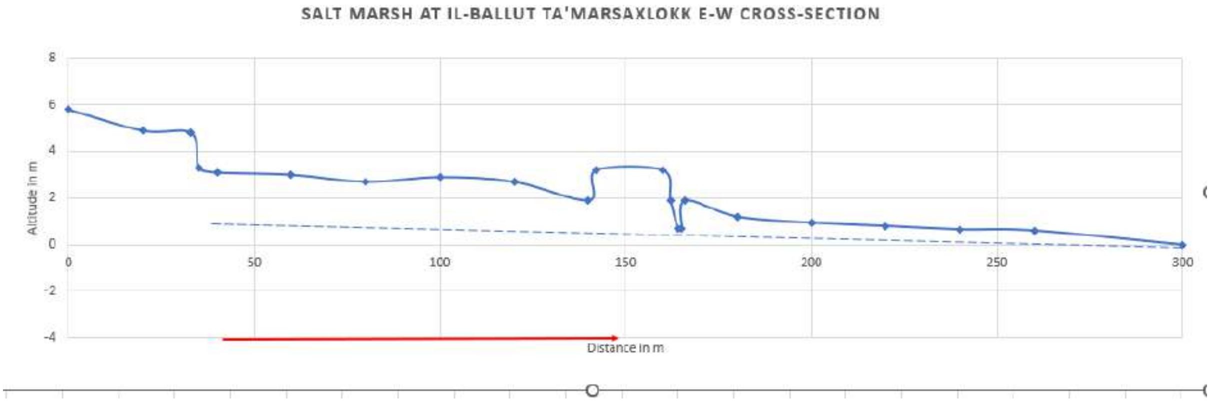


FIGURE 107: CROSS-SECTION ACROSS THE VALLEY FILL. DASHED BLUE LINE REPRESENTS THE WATER TABLE. RED LINE REPRESENTS THE EXTENT OF THE MODEL P1 AND S1 REPRESENT THE PIEZOMETERS INSTALLED ALONG THE SECTION

- Objectives 1: Once the conceptual model has been defined a numerical model was built to simulate the groundwater flow under steady state conditions and to investigate the relationships between groundwater and surface water in terms of water budget.
- Objective 2: To investigate the hydraulic head changes during the rainy season with varying monthly rainfall (under Stress conditions) starting from September 2021 to June 2022.

The model layer is assumed to be hydraulically homogeneous and isotropic, with values of their hydraulic conductivities (K) shown in Figure 107**Error! Reference source not found.**. Top and bottom surfaces are represented as flat. The model section across the aquifer is shown in Figure 108.

Measured Specific Conductivity (kx and ky): 1.49 x 10^{-4} m/s

Kz= 1.40X10^{-5}

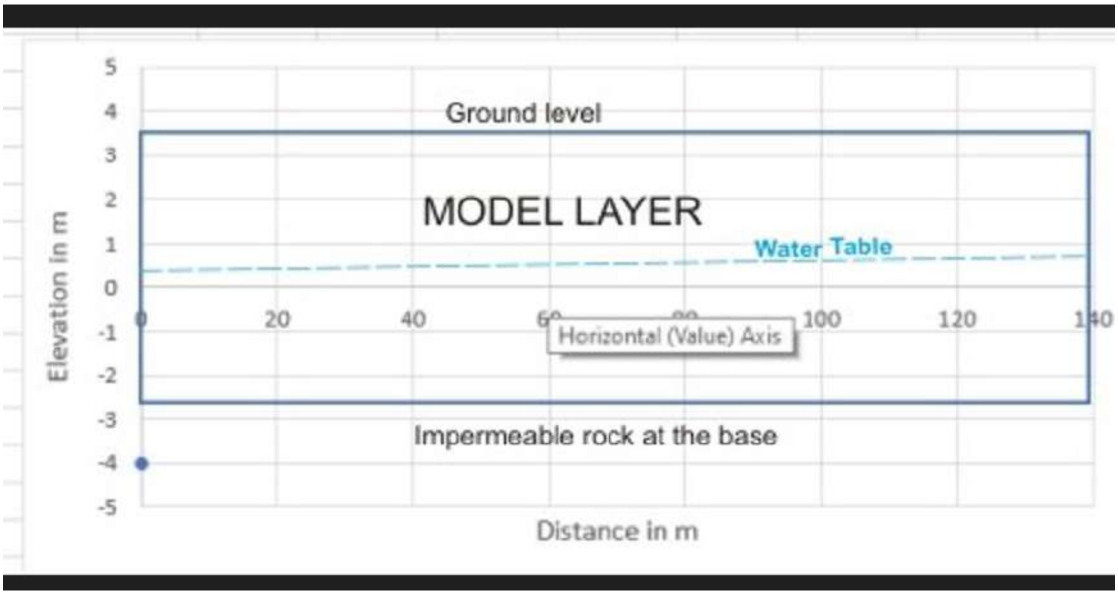


FIGURE 108: MODEL SECTION ACROSS THE AQUIFER - REPRESENTATION OF HUS (VERTICAL CROSS-SECTION) ALSO SHOWING THE HYDROSTATIC HEAD

3.4.3.3 Boundary conditions

The above-mentioned hydrodynamic conditions will be represented as follows **Error! Reference source not found.**(Figure 109):

- the system discharges to the sea along the western boundary;
- the head at the eastern boundary shall be used to specify the hydraulic head there;
- no-flow boundaries are set to all model layers at the northern and southern boundaries and at the bottom of the system.

3.4.3.4 Geometry of the Domain Under investigation

For horizontal discretization, the investigated domain is 150 m wide in a north south direction and 140m long along the east-west direction. The domain was subdivided (discretized) in 10 m x 10 m cells. The horizontal grid consisted of 20 rows and 14 columns (Figure 109). The model was first run for a single stress period under constant conditions. The hydraulic head obtained is illustrated below (Figure 110):

For vertical subdivision (discretization), the HUs will be represented by one unconfined, homogeneous model layer with flat surfaces (see Figure 108):

- model top (HU1) is set at 3.6 m above the mean sea level (MSL);
- bottom of model layer 1 (unconfined aquifer) is set at -2.4m below MSL

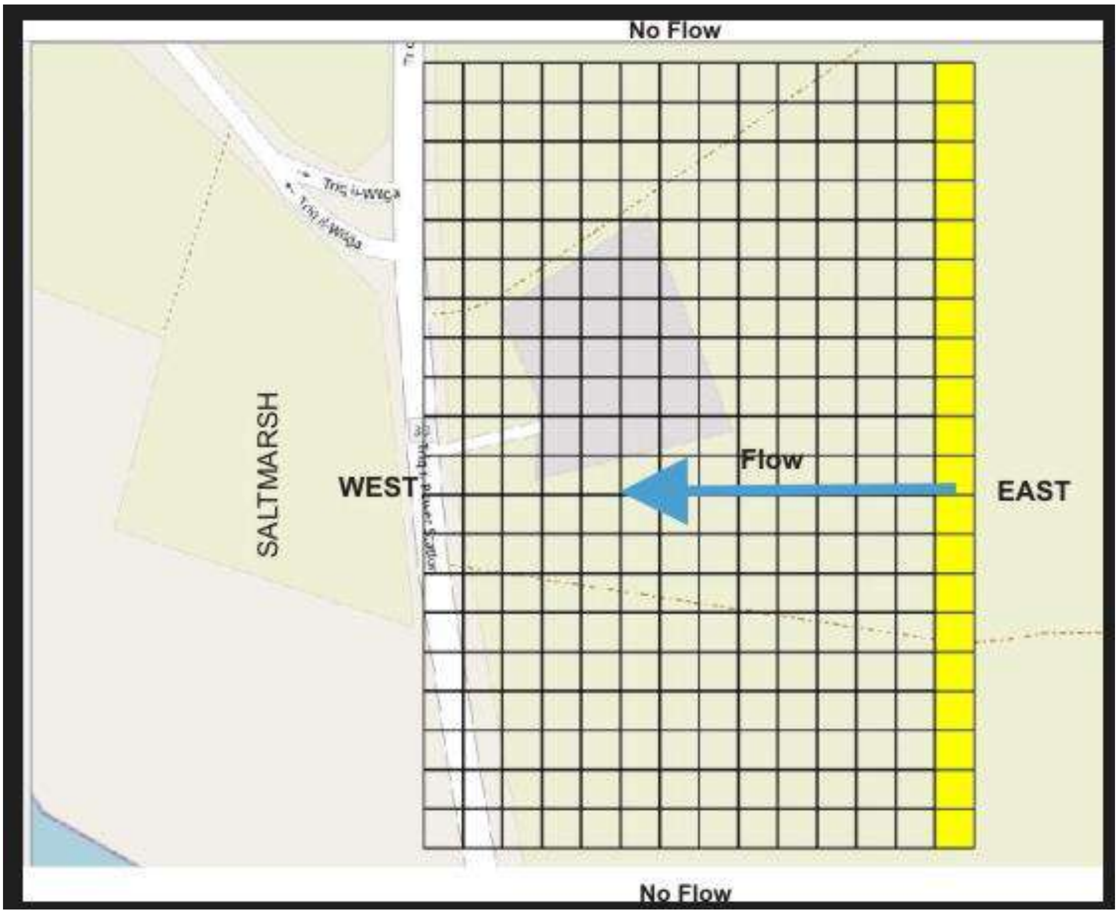


FIGURE 109: HORIZONTAL DISCRETISATION INTO 20 BY 14 CELLS WITH NO FLOW BOUNDARY CONDITIONS ON THE NORTH, SOUTH AND EAST

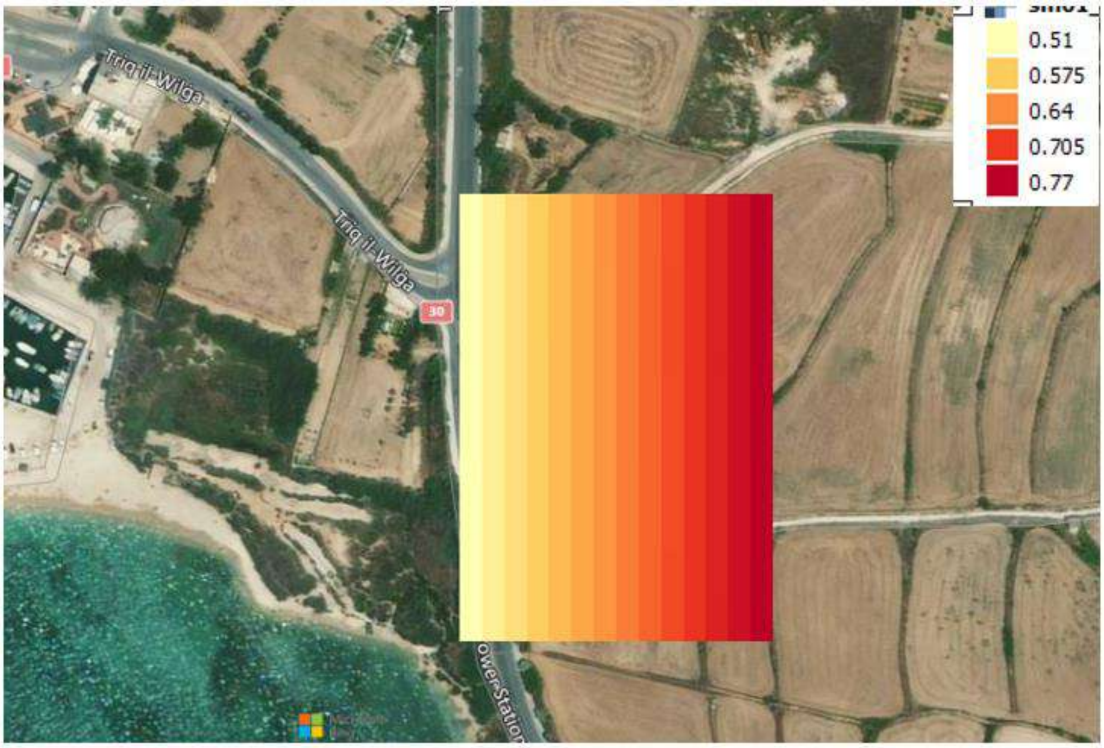


FIGURE 110: FREEWAT OUTPUT – HYDRAULIC HEAD ACROSS THE AQUIFER IN M

Time discretization was also used wherein the model was run over 13 Stress Periods (SPs), time-intervals within which all defined conditions/stresses (e.g., recharge, wells) stay constant. All the SPs are steady-state, which means that the solution of the model (the hydraulic head) does not change in time. FREEWAT includes also the possibility to define transient SPs, during which it is possible to simulate the evolution of the system over time. The following scheme is adopted for this study as shown in Figure 111.

Date	DAYS	Stress Period	From (sec)	To (sec)	Length (days)	State	Time step	Stresses involved
	1	1	0	86400	1	Steady-State	1	None
Sep-21	30	1	86400	2678400	30	Steady-State	1	recharge
Oct-21	31	1	2678400	5356800	31	Steady-State	1	recharge
Nov-21	30	1	5356800	7948800	30	Steady-State	1	recharge
Dec-21	31	1	7948800	10627200	31	Steady-State	1	recharge
Jan-22	31	1	10627200	13305600	31	Steady-State	1	recharge
Feb-22	28	1	13305600	15724800	28	Steady-State	1	recharge
Mar-22	31	1	15724800	18403200	31	Steady-State	1	recharge
Apr-22	30	1	18403200	20995200	30	Steady-State	1	recharge
May-22	31	1	20995200	23673600	31	Steady-State	1	recharge
Jun-22	30	1	23673600	26265600	30	Steady-State	1	recharge
Jul-22	31	1	26265600	28944000	31	Steady-State	1	recharge
Aug-22	31	1	28944000	31622400	31	Steady-State	1	recharge

FIGURE 111: TIME DISCRETIZATION SCHEME ADOPTED FOR THE PRESENT STUDY

To achieve the specific objectives of this part of the task, the model was implemented and run over the first two SPs. The Model Run showing SPs is shown in Appendix II.

The area of the 3 existing major pools No 1, 2 and 3 that make up the salt marsh and retain water for about 6 months cover an approximate area of 520m^2. Assuming an average water depth of 25cm the total water requirement is: 130m3. The runoff generated by the road having an area of 14000 m^2, by 20mm of rainfall and a runoff coefficient of 90%, is 250 m^3. This volume would be enough to recharge the 3 existing pools (1, 2 and 3) and pools of similar area in the potential extension to the salt marsh. This is even more so when the runoff generated by the catchment of the saltmarsh is taken into account.

If all the pools (the existing pools and pools of similar area in the proposed extension) are deepened to sea level they will recharge from the aquifer and will never dry up, not even during the summer months. The necessary recharge required will be to compensate for evaporation at an average of about 8mm per day (USDA Technical Bulletin 271).

Approximate Volume required is: 520 m^2 X0.008m/day = 4 m^3/day which is insignificant considering that this volume shall come from the sea level aquifer which is directly connected to the sea. This has been simulated by adding a well to the model which extracts 4 m^3/day from the aquifer. There was no significant change to the hydrodynamic water head (see Figure 112). To simulate the effect of daily evaporation from the pools a well was inserted in column 2 row 11 of the grid.

A new stress period of one day was added to the model (Stress period No 14) with the well pumping at 4m^3/day. The effect on the hydrodynamic head (the water table) was insignificant when the model was run.

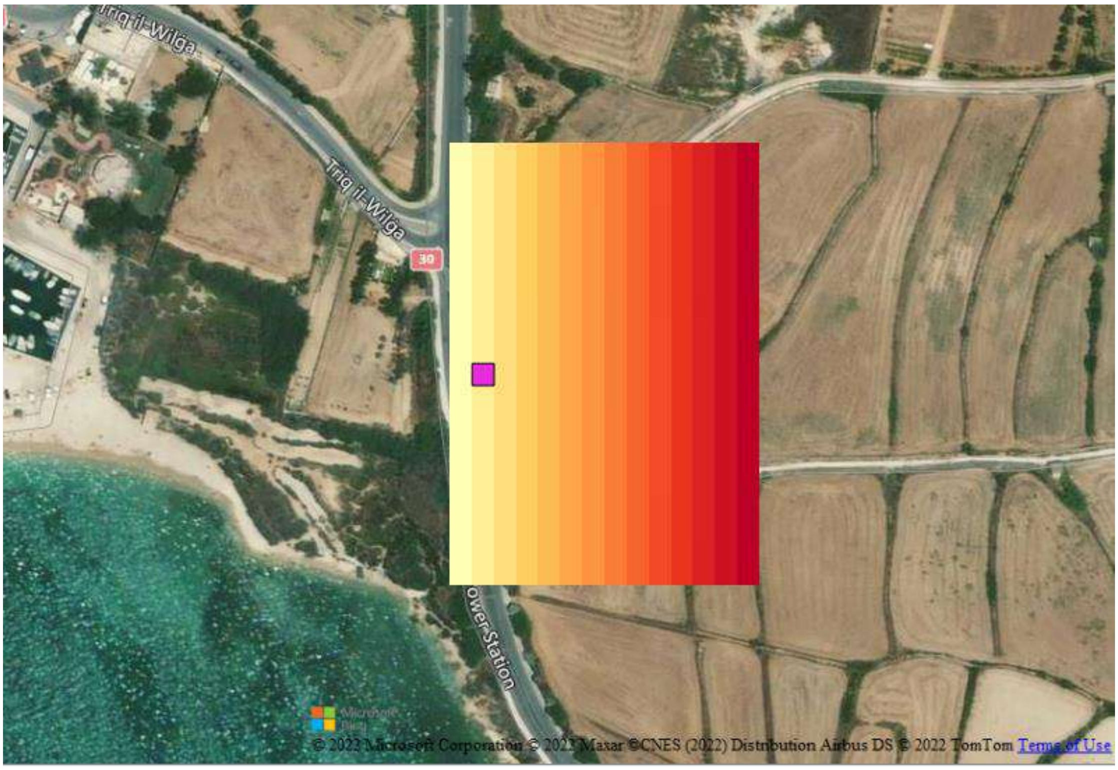


FIGURE 112: MATHEMATICAL MODEL SHOWING A PUMPING WELL IN COLUMN 2 CELL NO 11 (PINK SQUARE) OF THE GRID.

Modelling was undertaken for ground water. Frequent field monitoring has amply demonstrated that the salt marsh does not recharge by groundwater but by runoff from the catchment of il-Ballut ta' Marsaxlokk. If the saltmarsh is enlarged to include the field to the west overlooking the trench discharging into existing saltmarsh, the impact would depend on the final level of the extension. Water level measured in Piezometers P1 was +0.35m above sea level. If ponds are dug to depths below 0.35m above sea level they will fill with brackish water from the aquifer and by run off when this is available. If ponds are dug to depths over +0.35m above sea level they will be recharged by runoff only.

3.5 PHYSICO-CHEMICAL PARAMETERS

Measurement of physico-chemical parameters is dependent on the availability of water in the pools. Figure 19 and Table 4 show the two water monitoring stations adopted for the NP02/2021 project (November 2021 to November 2023) whereas Figure 39 and Table 5 show the sampling stations for water samples and physicochemical parameters and hydromorphological measurements for the T07 project (February 2012 to January 2013). It is important to note that the stations for the different projects do not have the same exact coordinates, however, the physico-chemical parameters for each project may still be compared. Based on these studies, one can state that the pools of the salt marsh retain water between September and March, with the volume of water gradually decreasing as the spring season approaches. Between April and August, most of the ponds are in a completely desiccated state. The physico-chemical data recorded for each month during the sampling period for the T07 and NP02/2021 projects are shown in Figure 113 to Figure 117.

3.5.1 pH levels

The pH of the measured ponds recorded for both projects (Figure 113) was slightly alkaline throughout the study periods except during February and March 2012 when the pH was slightly acidic. Overall, the pH increased from February 2012 to January 2013 (excluding the dry period from April to August when no water was present). The pH similarly increased from November 2021 to March 2022. The difference between these two sampling periods is that in 2012/2013, the pH peaked in September and maintained an overall steady alkaline value, whereas in the second study period, the pH peaked in March 2022.

The varying pH of the water bodies at the salt marsh may be correlated with precipitation input. The inherently acidic nature of rain lowers the pH of the pools. This may justify the slightly acidic state of the pools during February and March of 2012 when rainfall events frequented this period and the lack thereof resulted in higher pH values in the subsequent months. In 2021, rainfall events were more frequent between October and November and although the pH levels of the pools were alkaline towards the end of 2021, they were still lower in pH than those in the subsequent months when rainfall events became increasingly scarce.

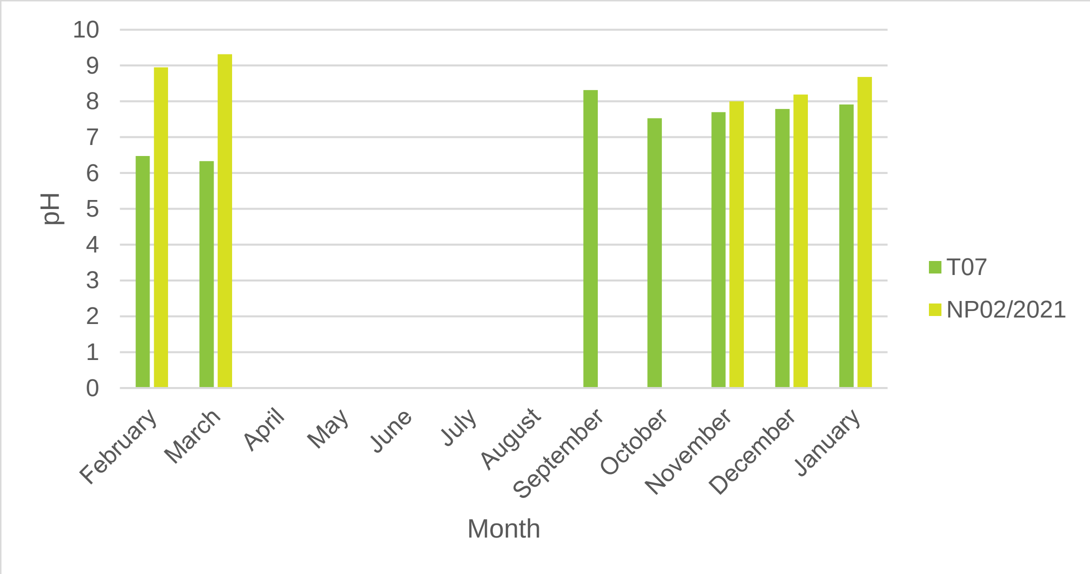


FIGURE 113: MONTHLY PH RECORDS DURING THE SAMPLING PERIOD FEBRUARY 2012 – JANUARY 2013 FOR THE T07 PROJECT AND AT STATION 1 DURING THE SAMPLING PERIOD NOVEMBER 2021 – APRIL 2022 FOR THE NP02/2021 PROJECT

3.5.2 Salinity

Salinity differed between the two studies when comparing the same months (Figure 114). Between November and January, salinity was higher in 2012 than in 2021/2022. Although the salinity was considered to be brackish water during this period for both studies, there may have been less input of freshwater from rainfall or surface run-off during the November 2012 to January 2013 period since the salinity values were closer to saline water (>30 PSU) as they ranged between 27 and 29 PSU. This level of salinity may also have been influenced by input of seawater through storm events. Conversely, those values for the 2021/2022 period were influenced by freshwater input since they varied between 10 and 21 PSU. From February to March of 2012, the salinity was quite low, with the lowest recorded value of 3.85 PSU in March. Conversely, salinity increased during the same months in 2022, with the value recorded for March being close to brine salinity (>50psu) since it was recorded as 49.103 PSU. This may be due to the poor freshwater input from rainfall during this period as discussed in Section 3.1.1.

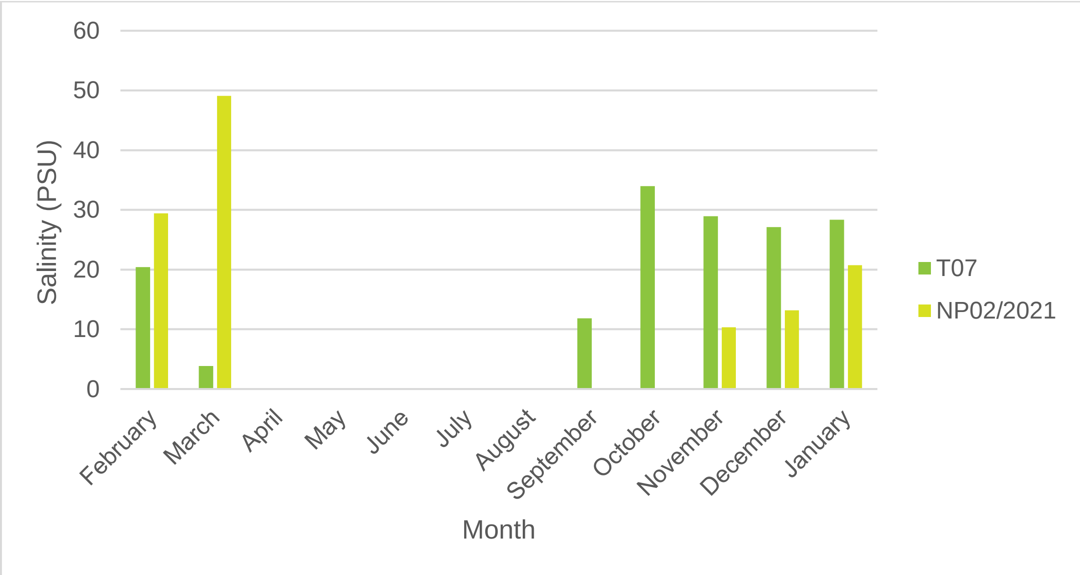


FIGURE 114: DATA FOR SALINITY (PSU) RECORDED FOR EACH MONTH DURING THE SAMPLING PERIOD FEBRUARY 2012 – JANUARY 2013 FOR THE T07 PROJECT AND AT STATION 1 DURING THE SAMPLING PERIOD NOVEMBER 2021 – APRIL 2022 FOR THE NP02/2021 PROJECT

3.5.3 Dissolved oxygen

The results from the T07 project and the NP02/2021 project show that dissolved oxygen is inconsistent between different years (Figure 115). The most notable discrepancy was in the month of March of 2012 whereby the former study recorded the lowest value of dissolved oxygen during this month, just below 25%, whereas in the latter study, dissolved oxygen in March 2022 was the second highest recorded value of the entire study period, exceeding 120%. This discrepancy may be attributed to increased rainfall events in early 2012 in contrast to increased rainfall events in late 2021. Rainfall causes surface run-off laden with agricultural residues such as fertilisers to be collected in the pools which subsequently causes algal blooms in response to the high nutrient load. The eutrophication event in turn decreases dissolved oxygen levels. Dissolved oxygen was rather low during September and October of 2012 which may be attributed to high water temperatures during these months. This contrasts the surge in oxygen content in February 2012 when the water temperature was low, as is typical of the winter period. Turbulence caused by strong winds and heavy rain as well as thriving photosynthetic vegetation also contribute to increased levels of dissolved oxygen.

During the 2021/2022 survey, levels of dissolved oxygen experienced less severe temporal fluctuations than those of the 2012/2013 survey as the percentages remain relatively high. The surge in January 2022 might be caused by thriving vegetation and colder temperatures typically associated with the winter season. In fact, this peak is correlated with the lowest recorded water temperature during the same month.

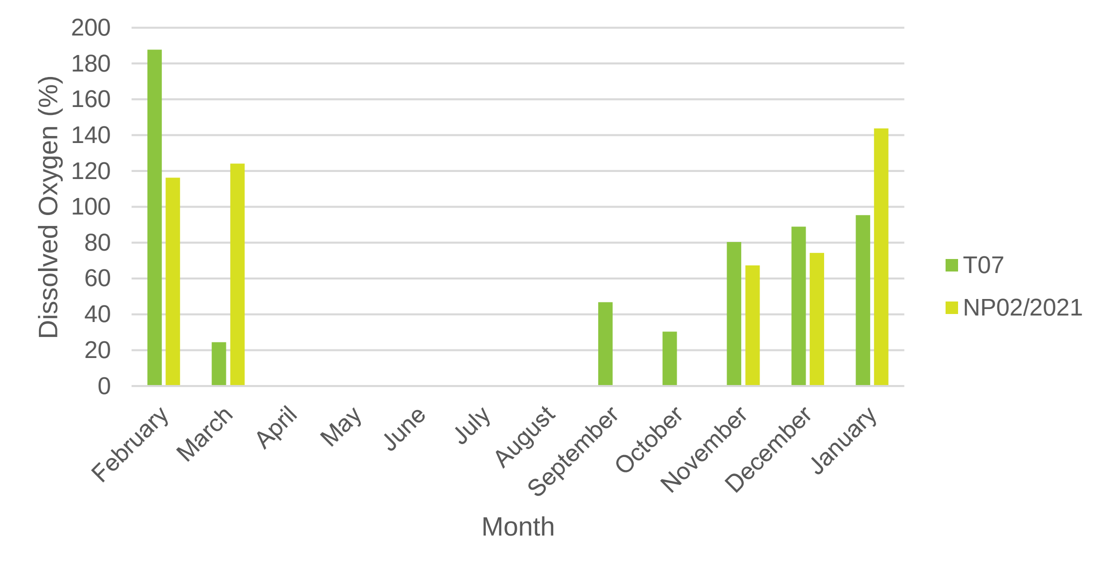


FIGURE 115: DATA FOR DISSOLVED OXYGEN (%) RECORDED FOR EACH MONTH DURING THE SAMPLING PERIOD FEBRUARY 2012 – JANUARY 2013 FOR THE T07 PROJECT AND AT STATION 1 DURING THE SAMPLING PERIOD NOVEMBER 2021 – APRIL 2022 FOR THE NP02/2021 PROJECT

3.5.4 Temperature

The trend for water temperature of the pools varied slightly between the two study periods, with lower temperatures recorded during the February 2012 to January 2013 period than the November 2021 to March 2022 period during all months except December (Figure 116). The highest water temperature recorded during the T07 project was during September 2012 reaching close to 30ºC, whereas that for the NP02/21 was around 20ºC during November 2021. The lowest temperature recorded during the T07 project was 13.4ºC during February whereas that recorded for the NP02/21 project was 15.9ºC during December. Water temperature is negatively correlated with the level of dissolved oxygen within the pools. Higher water temperatures typically result in decreased levels of dissolved oxygen and vice versa. In fact, during the hotter months such as September 2012, dissolved oxygen was relatively low. Conversely, during the colder months such as February, November and December 2012 and January 2013, dissolved oxygen was relatively high. Similarly, during the period between January and March of 2022, dissolved oxygen was well above 100%.

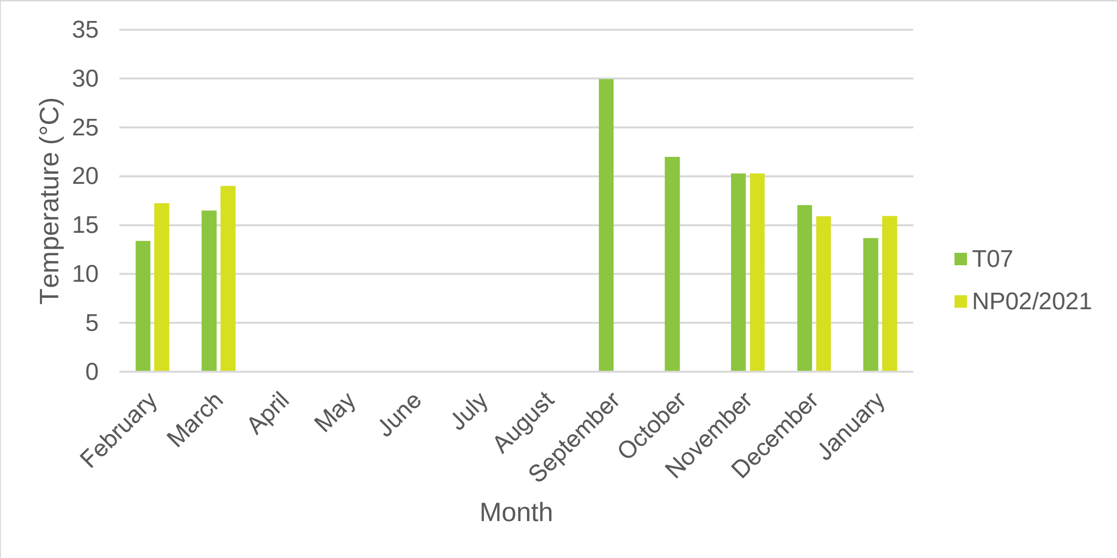


FIGURE 116: DATA FOR TEMPERATURE (°C) RECORDED FOR EACH MONTH DURING THE SAMPLING PERIOD FEBRUARY 2012 – JANUARY 2013 FOR THE T07 PROJECT AND AT STATION 1 DURING THE SAMPLING PERIOD NOVEMBER 2021 – APRIL 2022 FOR THE NP02/2021 PROJECT

3.5.5 Water depth

As previously stated, the depth of water in the pools increases during the wet season due to rainfall input and recharge from surface run-off. As the spring season approaches, the depth decreases due to increased evaporation and decreased input from rainfall and surface run-off. The pools become completely desiccated by April and remain so until August. The results from the T07 project and the NP02/2021 project show that the water depth is inconsistent between different years (Figure 117). In 2012, the water depth decreased from February to March and increased from September to January of the following year after the pools experienced a dry period between April and August of 2012. In 2021, the maximum depth of 286 mm recorded was in November and decreased till March 2022 until the pool dried up completely. This discrepancy is related to the input of consecutive rainfall events which occurred between September and December in 2012 and between October and November in 2021.

It is important to note that the differences in physico-chemical parameters between the two sites may be attributed to the different sampling locations apart from the potential differences in freshwater/seawater input.

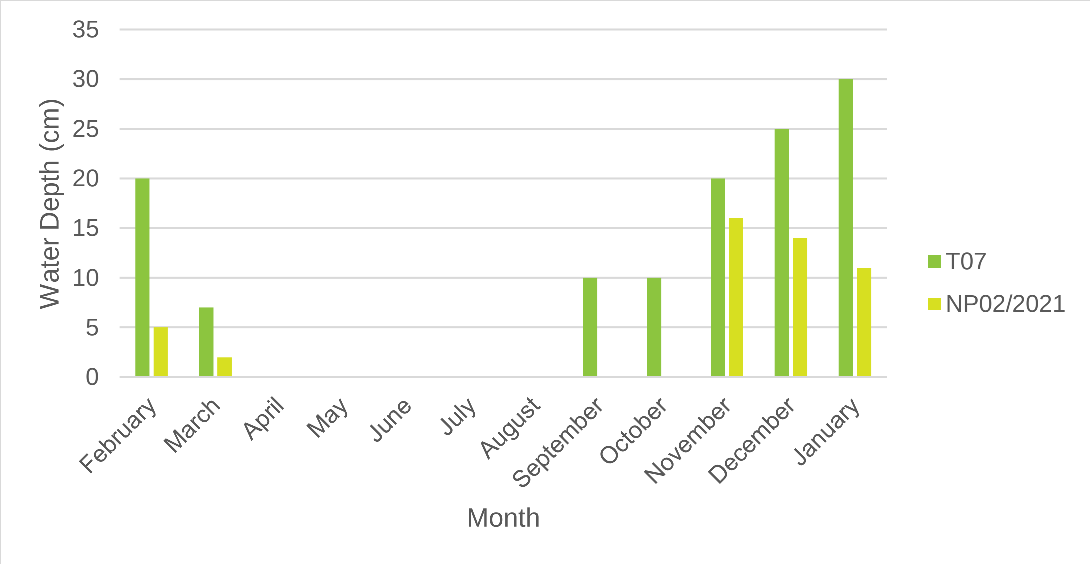


Figure 117: Data for water depth (cm) recorded for each month during the sampling period February 2012 – January 2013 for the T07 Project and at Station 1 during the sampling period November 2021 – April 2022 for the NP02/2021 project

3.5.6 Turbidity

Turbidity was measured monthly as part of the NP02/21 project. Values of this parameter were relatively low during the months between November 2021 and January 2022. Turbidity almost doubled from January to February and subsequently peaked during March 2022. This may have been due to the gradually decreasing depth of the pools as a result of increasing rates of evaporation, rendering salts and particulate manner increasingly concentrated.

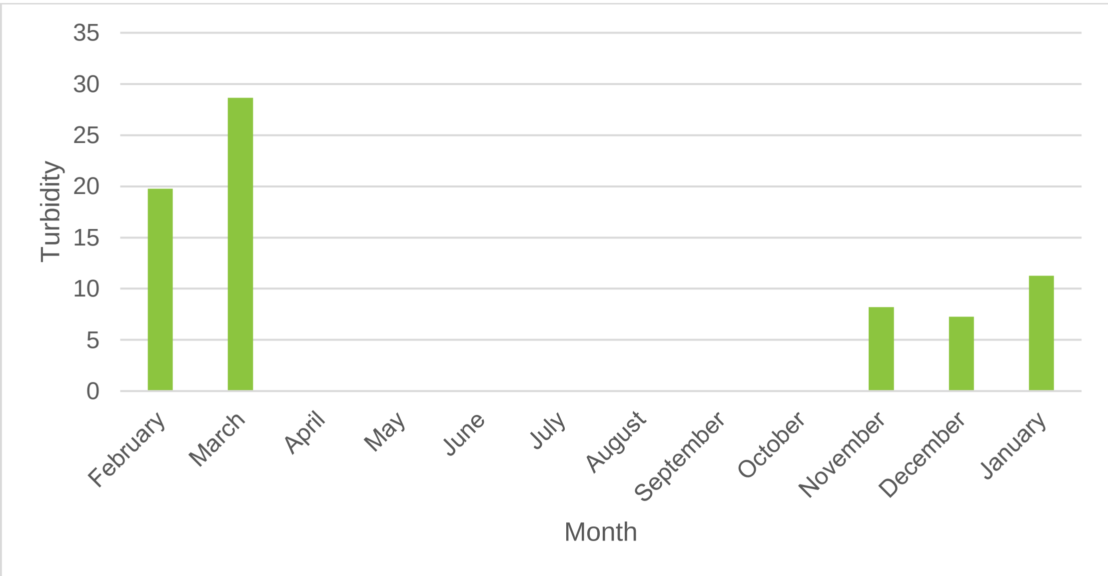


Figure 118: Data for turbidity recorded for each month at Station 1 during the sampling period November 2021 – April 2022 for the NP02/2021 project

3.5.7 Nutrients and Chlorophyll *a*

Values of nutrients and chlorophyll *a* recorded as part of the T07 project (covering February 2012 to January 2013 and the NP02/21 project (covering November 2021 to April 2022) are shown graphically in Figure 119 to Figure 129. Values for the months between April and August for the former period are absent due to the lack of water present within the pools during the dry period. The absence of values in other months indicates that such values were below the detection limit and were hence recorded as negligible.

Data recorded for nitrates during the respective sampling periods of each project are shown in Figure 119. During the NP02/2021 project, values for nitrates peaked in December 2021 and March 2022. A pertinent source of nitrates is agricultural run-off which is laden with nutrients. The observed peaks correspond to those of chlorophyll *a* as shown in since high nutrient loads render algal blooms. Nitrites increased from November 2021 to December 2021 and fell sharply in January 2022 as shown in Figure 120.

The values for total nitrogen fluctuated between February 2012 and January 2013 although the highest value for total nitrogen was recorded in October of 2012 (Figure 121). This corresponds to low dissolved oxygen recorded during this month. A high nutrient load is a precursor to algal blooms which in turn decrease dissolved oxygen levels as a consequence of eutrophication.

Values for orthophosphates and phosphorus showed a gradual decreasing trend from the start of the monitoring period in November 2021 till March 2022 as shown in Figure 122 and Figure 126 respectively.

Ammonium, ammoniacal nitrogen and Biological Oxygen Demand (BOD) recorded during the February 20212 to January 2013 period (former) and the November 2021 to April 2022 period (latter two) were below the detection limit for most months. The former was only detected during September and October (Figure 123) whereas the latter two were recorded during November and December (Figure 124 and Figure 127).

For values of total phosphates recorded during the February 2012 to January 2013 period, an increasing trend was noted between February and March of 2012 which was followed by a decreasing trend from October 2012 to January 2013 (Figure 125).

During the sampling period covering November 2021 to April 2022, values for Total Organic Carbon (TOC) fluctuated between consecutive months but was notably high during December of 2021 and February and March of 2022 (Figure 128).

During the sampling period covering February 2012 to January 2013, values for chlorophyll *a* were below the detection limit for all sampling months, indicating that chlorophyll levels were negligible as shown in Figure 128. Conversely, values for this attribute recorded during the period covering November 2021 to April 2022 were relatively high, most notably peaking during December and March. As previously mentioned, these peaks correspond to those of the values recorded for nitrates (Figure 119).

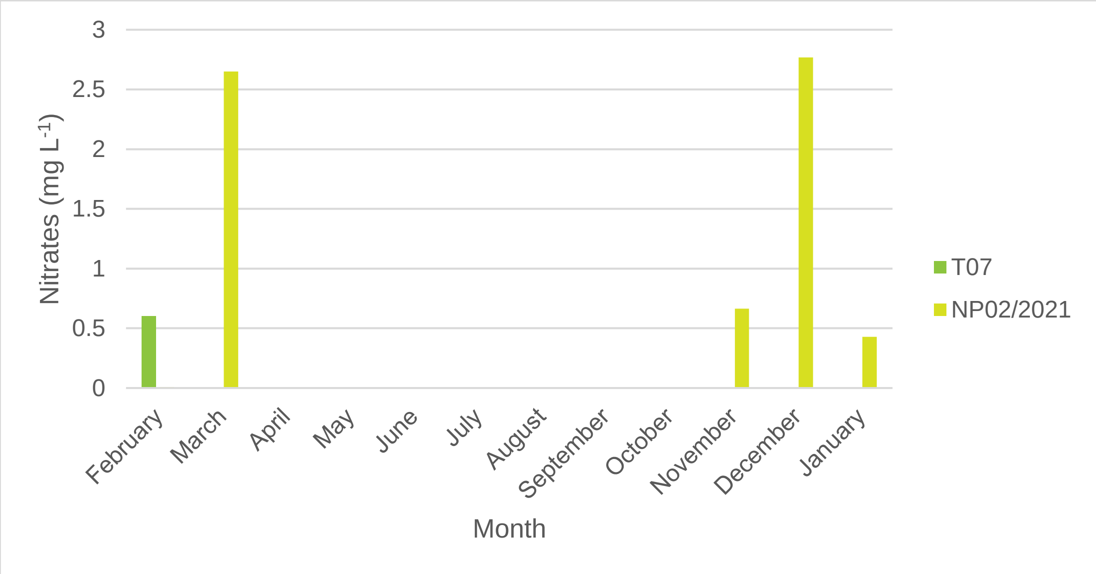


FIGURE 119: DATA FOR NITRATES (MG L^{-1}) RECORDED FOR EACH MONTH DURING THE SAMPLING PERIOD FEBRUARY 2012 – JANUARY 2013 FOR THE T07 PROJECT AND AT STATION 1 DURING THE SAMPLING PERIOD NOVEMBER 2021 – APRIL 2022 FOR THE NP02/2021 PROJECT

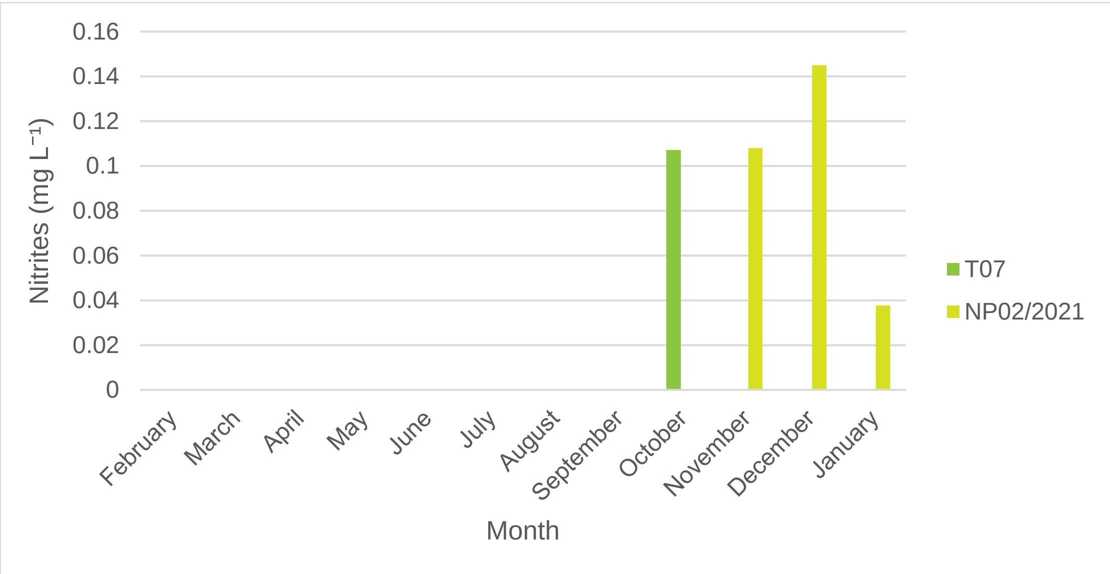


FIGURE 120: DATA FOR NITRITES (MG L^{-1}) RECORDED FOR EACH MONTH DURING THE SAMPLING PERIOD FEBRUARY 2012 – JANUARY 2013 FOR THE T07 PROJECT AND AT STATION 1 DURING THE SAMPLING PERIOD NOVEMBER 2021 – APRIL 2022 FOR THE NP02/2021 PROJECT

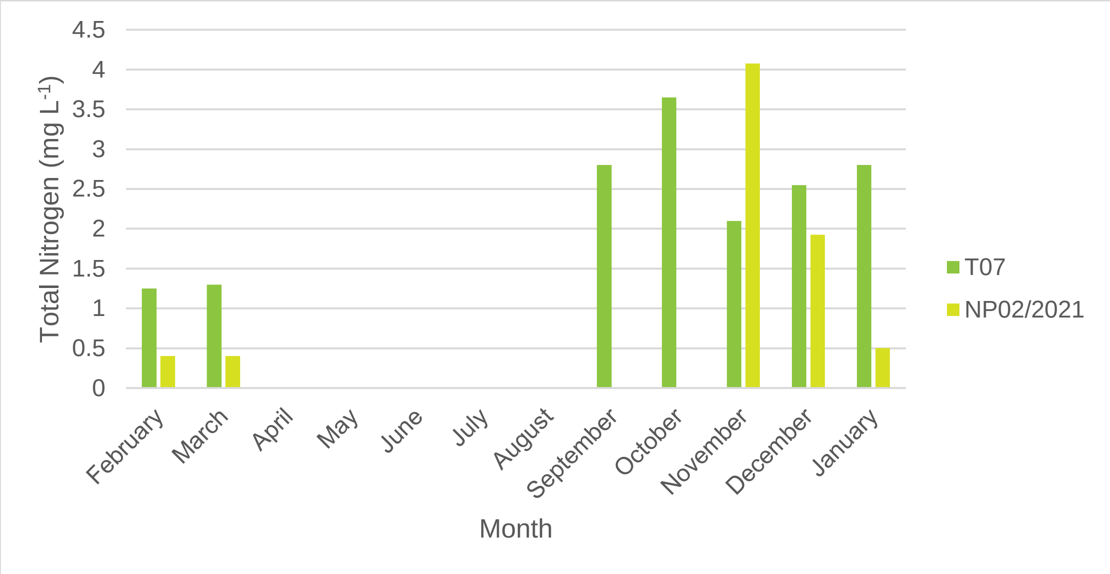


FIGURE 121: DATA FOR TOTAL NITROGEN (MG L^{-1}) RECORDED FOR EACH MONTH DURING THE SAMPLING PERIOD FEBRUARY 2012 – JANUARY 2013 FOR THE T07 PROJECT AND AT STATION 1 DURING THE SAMPLING PERIOD NOVEMBER 2021 – APRIL 2022 FOR THE NP02/2021 PROJECT

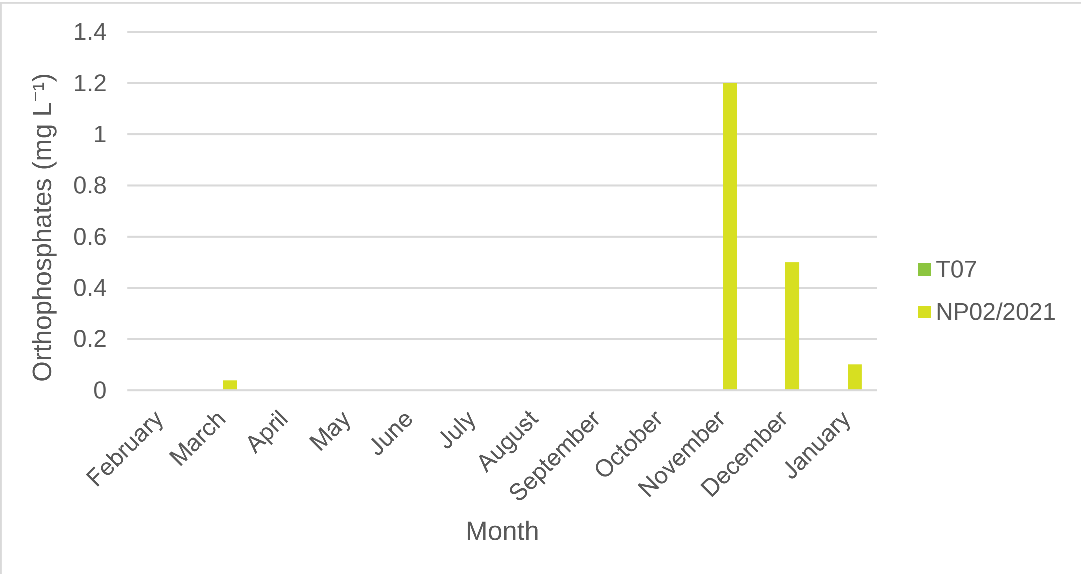


FIGURE 122: DATA FOR ORTHOPHOSPHATES (MG L^{-1}) RECORDED FOR EACH MONTH DURING THE SAMPLING PERIOD FEBRUARY 2012 – JANUARY 2013 FOR THE T07 PROJECT AND AT STATION 1 DURING THE SAMPLING PERIOD NOVEMBER 2021 – APRIL 2022 FOR THE NP02/2021 PROJECT

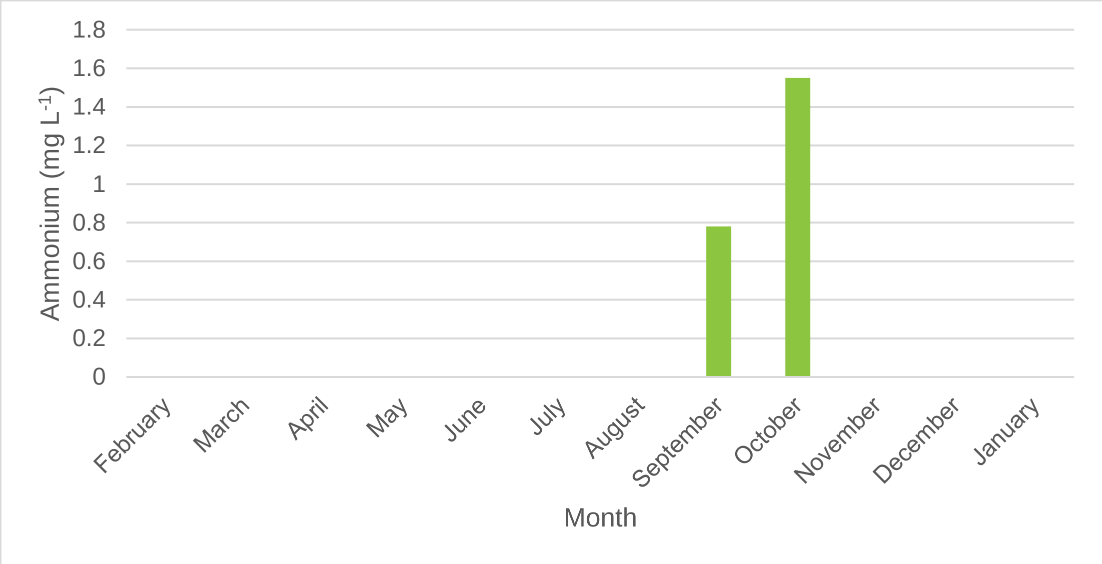


FIGURE 123: DATA FOR AMMONIUM (MG L^{-1}) RECORDED FOR EACH MONTH DURING THE SAMPLING PERIOD FEBRUARY 2012 – JANUARY 2013 FOR THE T07 PROJECT

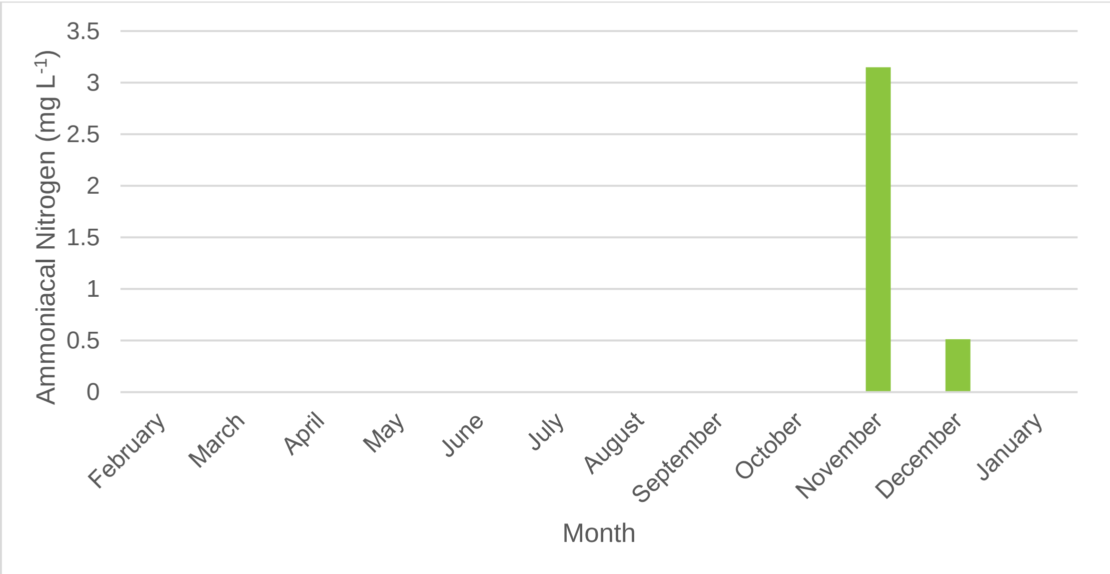


FIGURE 124: DATA FOR AMMONIACAL NITROGEN (MG L^{-1}) RECORDED FOR EACH MONTH AT STATION 1 DURING THE SAMPLING PERIOD NOVEMBER 2021 – APRIL 2022 FOR THE NP02/2021 PROJECT

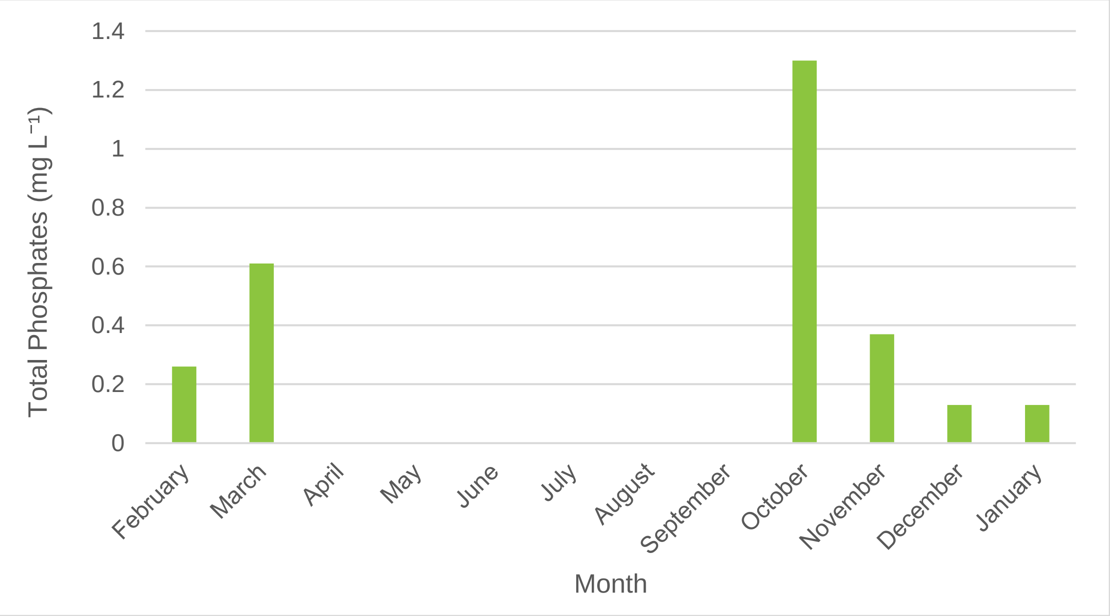


FIGURE 125: DATA FOR TOTAL PHOSPHATES (MG L^{-1}) RECORDED FOR EACH MONTH DURING THE SAMPLING PERIOD FEBRUARY 2012 – JANUARY 2013 FOR THE T07 PROJECT

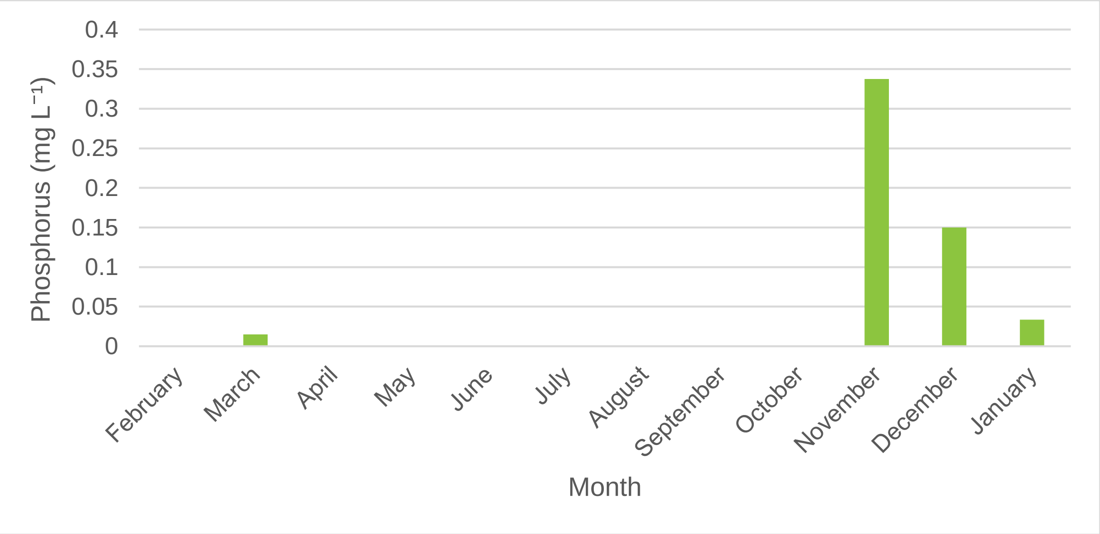


FIGURE 126: DATA FOR PHOSPHORUS (MG L^{-1}) RECORDED FOR EACH MONTH AT STATION 1 DURING THE SAMPLING PERIOD NOVEMBER 2021 – APRIL 2022 FOR THE NP02/2021 PROJECT

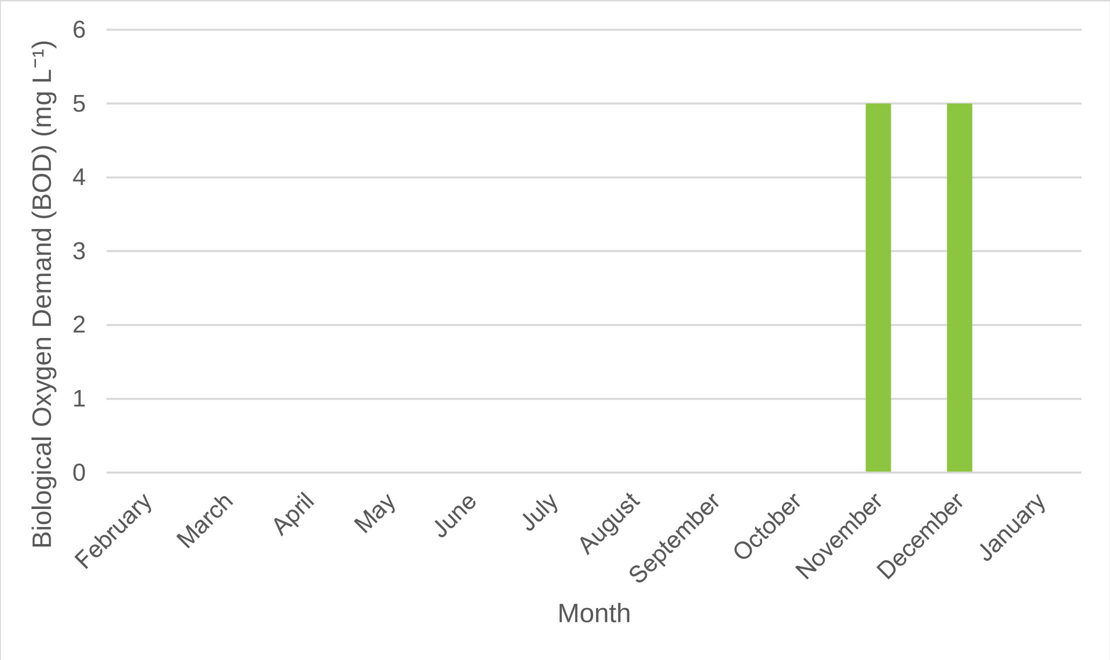


FIGURE 127: DATA FOR BIOLOGICAL OXYGEN DEMAND (BOD) (MG L^{-1}) RECORDED FOR EACH MONTH AT STATION 1 DURING THE SAMPLING PERIOD NOVEMBER 2021 – APRIL 2022 FOR THE NP02/2021 PROJECT

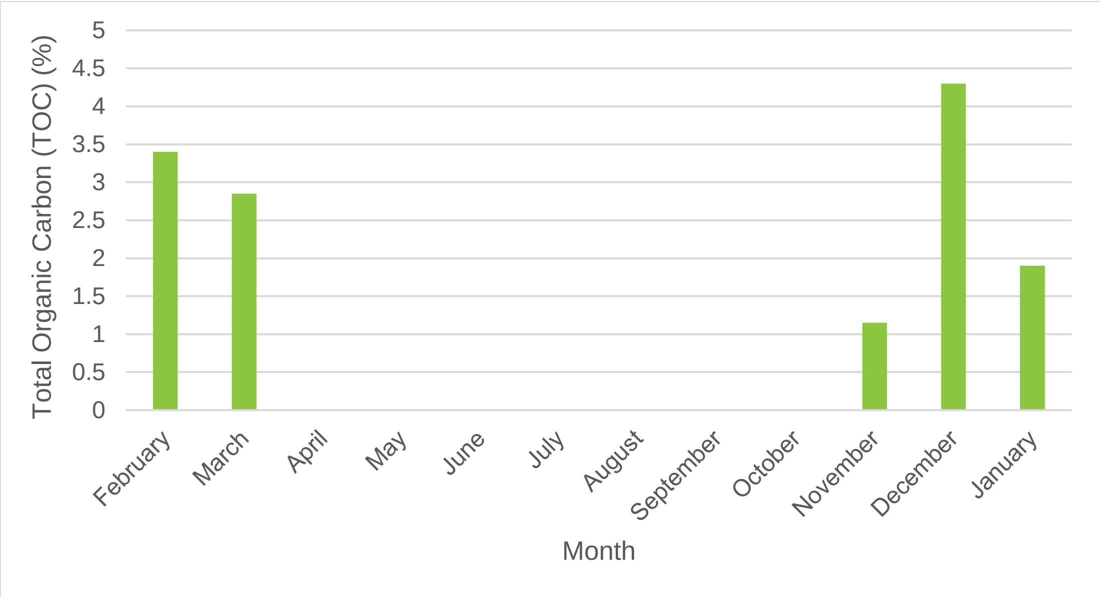


FIGURE 128: DATA FOR TOTAL ORGANIC CARBON (%) RECORDED FOR EACH MONTH AT STATION 1 DURING THE SAMPLING PERIOD NOVEMBER 2021 – APRIL 2022 FOR THE NP02/2021 PROJECT

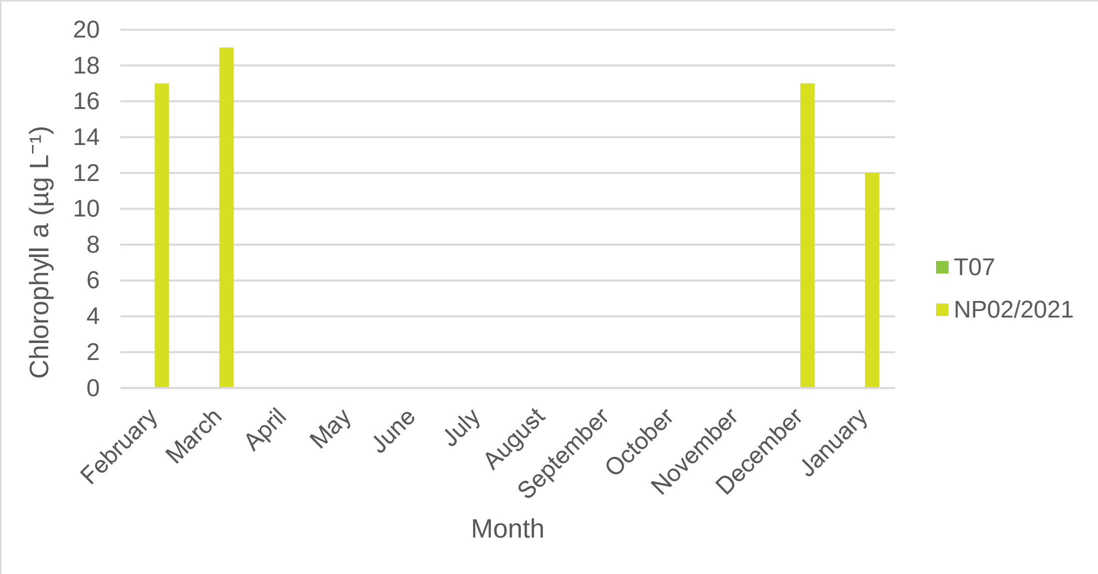


FIGURE 129: DATA FOR CHLOROPHYLL *A* (μG L^{-1}) RECORDED FOR EACH MONTH DURING THE SAMPLING PERIOD FEBRUARY 2012 – JANUARY 2013 FOR THE T07 PROJECT AND AT STATION 1 DURING THE SAMPLING PERIOD NOVEMBER 2021 – APRIL 2022 FOR THE NP02/2021 PROJECT

3.5.8 Additional ponds

As part of the present study, physico-chemical data were collected from the pond at the discharge point of the two 800mm pipes as shown in Figure 65. The data were collected in early May 2022 to establish the water characteristics of the pond, the results of which are shown in Figure 130. With an average salinity of 1.35 PSU, the pond is regarded as oligohaline and is hence regarded as brackish water (0.5-30 PSU). Dissolved oxygen was recorded to be rather low which may be attributed to the relatively shallow nature of the pond and the potential high levels of nutrients discharged into the pond from surface run-off.

Due to the strong wind event which was characterized by a southeast wind force of 6 (= 48km/h) the physico-chemical data were collected from Pool No. 1 (easternmost pool closest to the sea) in early May 2022 to establish the water characteristics of the pool following this event, the results of which are shown in Figure 131. The graph shows that salinity is rather high, exceeding 50 PSU which classifies such water to be brine (>50 PSU) which may be attributed to the input of seawater as a result of the storm event, augmented by the increasing rate of evaporation as a result of the approaching summer season.

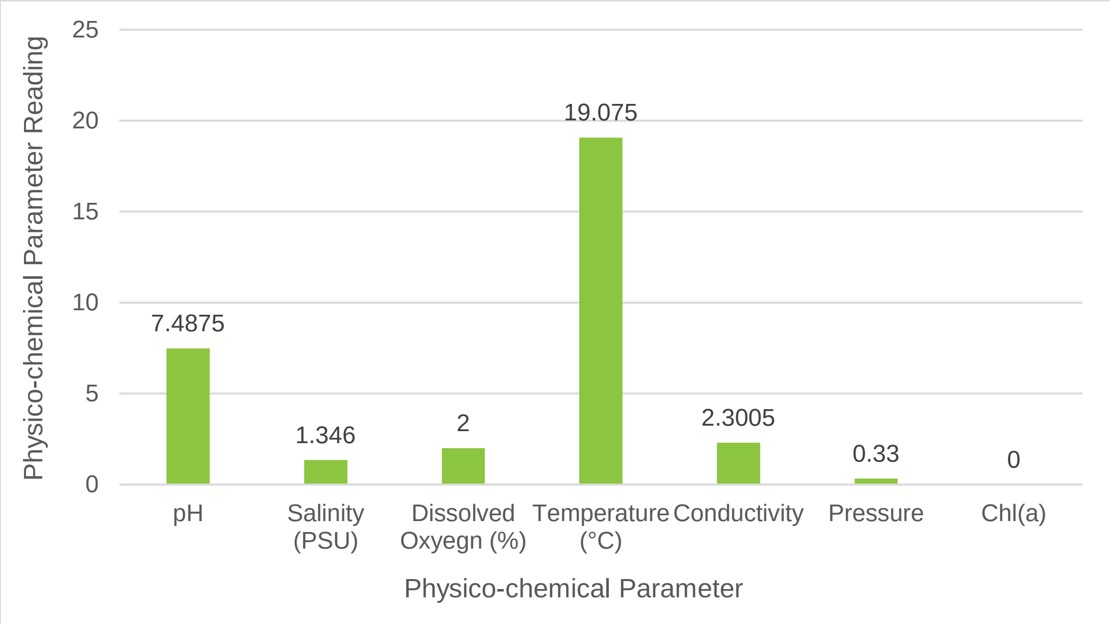


FIGURE 130: PHYSICO-CHEMICAL DATA RECORDED FOR THE POND AT THE DISCHARGE OF THE TWO 800MM PIPES LOCATED NORTH OF THE SALT MARSH OF BALLUT TA' MARSAXLOKK

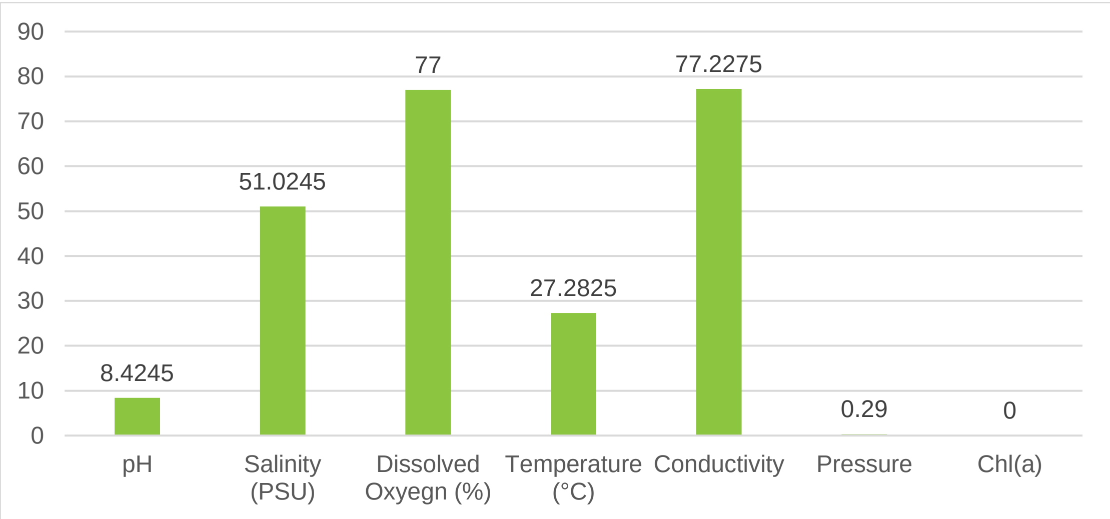


FIGURE 131: PHYSICO-CHEMICAL DATA RECORDED FROM POOL NO 1

3.6 ECOLOGY

At present, the saline marshland covers an area of around 1 hectare and supports numerous habitats of ecological importance. According to the Standard Data Form (SDF)[25] for il-Ballut ta' Marsaxlokk, these are:

---

[25] ERA (2019). Natura 2000 - Standard Data Form. Il-Ballut ta' Marsaxlokk. https://era.org.mt/wp-content/uploads/2019/05/20180601_MT0000014-Ballut-Marsaxlokk-SAC.pdf

Habitat 1310 - Salicornia and other annuals colonizing mud and sand

The annual species *Salicornia ramosissima* dominates this habitat which occupies an area of 200m^2, less than 0.9% of the total surface area of this SAC. It is located within and at the bank of the lagoons. The space available for colonisation is restricted and the habitat is subjected to competition with other habitats, namely Habitats 1410 - Mediterranean salt meadows (*Juncetalia maritimi*) and 1420 - Mediterranean and thermo-Atlantic halophilous scrubs (*Sarcocornetea fruticosi*), the latter of which dominates the salt marsh. Consequently, this habitat is designated with a conservation status as Unfavourable-Inadequate.

Habitat 1410 - Mediterranean salt meadows (Juncetalia maritimi)

This habitat comprises *Juncus maritimus* and the sparsely distributed *Carex extensa*. It occupies an area of 760m^2, just over 0.3% of the total surface area of this SAC. The distribution of this habitat is restricted mainly to the lagoon banks. This habitat type, together with its representative species, are very rare in the Maltese Islands, some of which are critically endangered. The habitat is bordered by the extent of the nature reserve, agricultural land to the north, the road to the east, and buildings to the west. This increases the vulnerability of the habitat to climate change and sea level rise as its potential to retreat is hindered making it unable to adapt to any potential impacts. The conservation status of this habitat is designated as Unfavourable-Bad.

Habitat 1420 - Mediterranean and thermo-Atlantic halophilous scrubs (Sarcocornetea fruticosi)

This habitat has the widest distribution within the site, occupying an area of 7,800m^2, which is equivalent to 3.3% of the total surface area of this SAC. Typical plant species constituting this habitat include *Arthrocnemum macrostachyum* (Shrubby glasswort), *Halimione portulacoides* (Sea purslane), *Limbarda crithmoides* (Golden samphire) and *Suaeda vera* (Shrubby Seablight). It occupies a low-lying marshland at il-Ballut within 50m from the sea, from the banks throughout the rest of the marshland area, including further away from the lagoons. Similarly, to the aforementioned habitat, this habitat is restricted in its potential to retreat due to the surrounding components. The conservation status of this habitat is designated as Unfavourable-Bad.

Habitat 92D0 - Southern riparian galleries and thickets (Nerio-Tamaricetea and Securinegion tinctoriae)

This habitat consists of galleries and thickets of Tamarisk (excluding *Tamarix africana*), oleander, and chaste trees. This habitat was present up until 2008, although the species *Vitex agnus-castus* (Chaste Tree) which previously occurred at the salt marsh was noted as extinct before 2008. Ecological surveys carried out between 2012 and 2014 for the drafting of the Natura 2000 Management Plan did not reveal the presence of this habitat on site.

3.6.1 Survey Findings

3.6.1.1 Habitats

Through the ecological broad-brush survey carried out as part of the present study, the main habitats occupying il-Ballut ta' Marsaxlokk have been mapped for the present study as shown in Figure 132. Mediterranean and thermo-Atlantic halophilous scrubs (Sarcocornetea fruticose) (Habitat 1420) was predominantly distributed throughout the site as shown in Figure 133. The vegetation map drawn for the Natura 2000 Management Plan covering 2006-2010 (Figure 140) does not indicate the habitats but depicts the specific species that were recorded on site at the time of the survey. The recorded species which constitute Habitat 1420 as per the SDF of the site include *Suaeda vera*, *Atriplex halimus*, *Halimione portulacoides* and *Limbarda critmoides*. Collectively, these species had a wide distribution across the site.

Salicornia and other annuals colonising mud and sand (Habitat 1310) occupied a coverage to a lesser extent than Habitat 1420 within the salt marsh and predominantly flanked several pools on either side (Figure 134) but were also present within some of the pools when these were dried up. This distribution overall corroborates that of the Management Plan of 2006-2010 (Figure 140) and 2013 (Figure 143) as well as the AA Technical Report (Figure 145). In the T07 project, Figure 141 depicts the habitat as being present within the pools (= annual glasswort community). However, in Figure 142, the exact location of Habitat 1310 is unspecified since it was depicted to overlap with Habitat 1420. As adopted from the T07 project, the difference between Figure 141 and Figure 142 is that the former map describes the habitats in accordance to the Palaearctic Habitats classification, whereas the latter describes the habitats in accordance to the Habitats Directive (92/43/EEC).

The location and distribution of Mediterranean salt meadows (Juncetalia maritimi) (Habitat 1410) (Figure 135) recorded as part of the present study is similar to that recorded in the Management Plan covering 2006-2010 (=*Juncus maritimus*) (Figure 140) and the T07 project (= Tall rush bed) (Figure 141) which flanked one side of the westernmost pool. However, the distribution of Habitat 1410 in the T07 project is inconsistent as it is located within the reclaimed region (in accordance to the Management Plan of 2006-2010) as shown in Figure 142. The distribution of this habitat as depicted by the Management Plan of 2013 in Figure 143 as well as by the AA Technical Report in Figure 145 shows that it was recorded in both locations within the site.

Southern riparian galleries and thickets (Nerio-Tamaricetea and Securinegion tinctoriae) (Habitat 92D0) previously occupied most of the area bordering the site as recorded in the T07 project (Figure 133). However, the Management Plan of 2006-2010 (Figure 140) did not record this habitat and the Management Plan of 2013 (Figure 143) confirms that Habitat 92D0 is no longer present. This can be further corroborated with the findings of the broad-brush survey carried out as part of the present study.

As opposed to the distribution of ruderals recorded during the T07 project which occupied the inner sections of the site (Figure 141), that recorded as part of the present study (Figure 132) occupied the perimeter of the western section of the site as well as the eastern site (Figure 137 and Figure 138 respectively), with a couple of patches interspersed between other habitat types. The ruderal community recorded in the T07 project also overlapped with other habitats, namely the Halo-nitrophile grass swards, the sea purslane-woody glasswort scrubs. In the Management Plan covering 2006-2010, the ruderal community was recorded to be limited to part of the reclaimed region on the western side of the salt marsh (Figure 140). According to the Management Plan of 2013, the ruderal community was recorded along the embankment behind the sandy beach as well as in disturbed areas within the salt marsh.

In the present study, the broad-brush survey highlighted that the distribution of the Tamarisk thicket is limited to the northern and eastern border of the site (Figure 136 and Figure 132), a pattern of regression when compared to the distribution from the T07 project wherein the Tamarisk thicket bordered most of the site and overlapped with Halo-nitrophilous scrubs (Figure 141). However, the distribution of the Tamarisk thicket depicted in the Management Plan covering 2006-2010 (Figure 140) and the Management Plan of 2013 (Figure 144) is limited to the corner flanking the two agricultural fields above the site.

The distribution of *Ruppia maritima*, Beaked Tassel Pondweed (= Tasselweed community) was mutual between the T07 project (Figure 141) and the present study (Figure 132), occupying the ponds when these contained water. Its presence was also noted within the pools in the Management Plan of 2013. *R. maritima* was not recorded during the survey undertaken as part of the Management Plan 2006-2010. However, translocation of its seeds or mature specimens from the salt pans at is-Salina to the pools was recommended. The opportunistic algal species, *Ulva intestinalis* (Figure 139), was also noted in a pool when this supported a sufficient quantity of water. This species was also recorded on site by Henwood (2006).[22]

Invasive species are patchily distributed within the salt marsh and there is potential for their spread within the site, thereby potentially outcompeting ecologically important habitats. This is a cause for concern since species such as the invasive *Oxalis pes-caprae* (Cape sorrel) partially constitute the ruderal community. However, measures could be taken to remove the ruderal community and replace it with keystone species which are characteristic of Annex I habitats, namely Habitat 1410 and Habitat 1410. Figure 152 shows the potential future expansion of these habitats if they're planted in areas currently occupied by ruderal and invasive species.

At present, the areas covered by Habitat 1410 and Habitat 1420 are around 100m^2 and 2,350m^2 respectively, based on the areas mapped in Figure 132. With the expansion of these habitats as envisaged in Figure 152, these values would increase to about 700m^2 and 2550m^2 for Habitat 1410 and Habitat 1420 respectively.

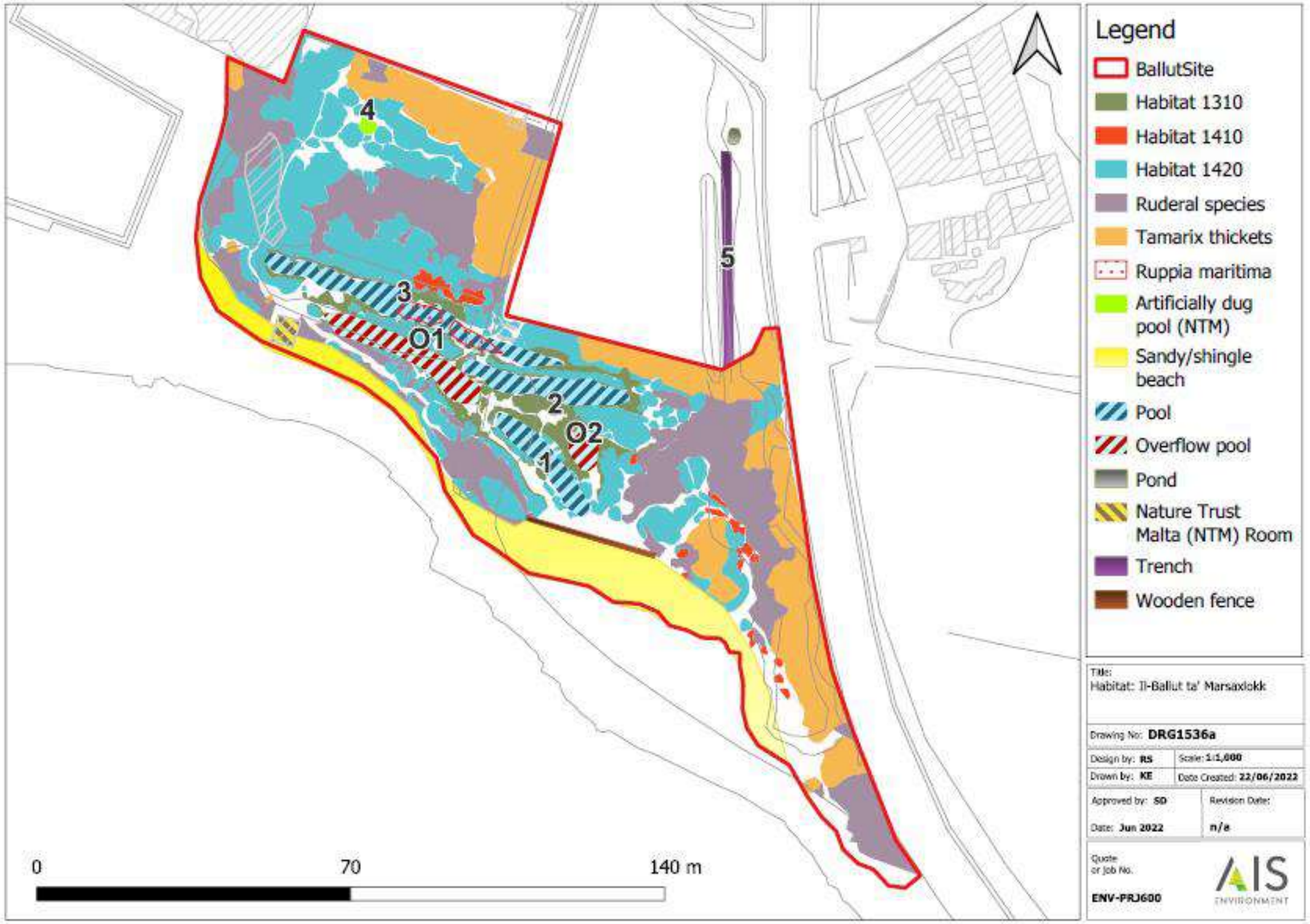


FIGURE 132: MAIN HABITATS OCCUPYING IL-BALLUT TA' MARSAXLOKK

FIGURE 133: SALT MARSH DOMINATED BY MEDITERRANEAN AND THERMO-ATLANTIC HALOPHILOUS SCRUBS (SARCOCORNETEA FRUTICOSI) (HABITAT 1420)

FIGURE 134: *SALICORNIA* AND OTHER ANNUALS COLONIZING MUD AND SAND (HABITAT 1310) AT THE BANK OF A POOL

FIGURE 135: MEDITERRANEAN SALT MEADOWS (*JUNCETALIA MARITIMI*) (HABITAT 1410)

FIGURE 136: *TAMARISK AFRICANA* BORDERING DOMINANT SALT MARSH PLANT COMMUNITY IN THE NORTHERN AREA OF THE SITE

FIGURE 137: RUDERAL SPECIES AT THE WESTERN PERIMETER OF SALT MARSH

FIGURE 138: RUDERAL SPECIES TOWARDS THE EAST OF THE SALT MARSH

FIGURE 139: OPPORTUNISTIC ALGAL SPECIES

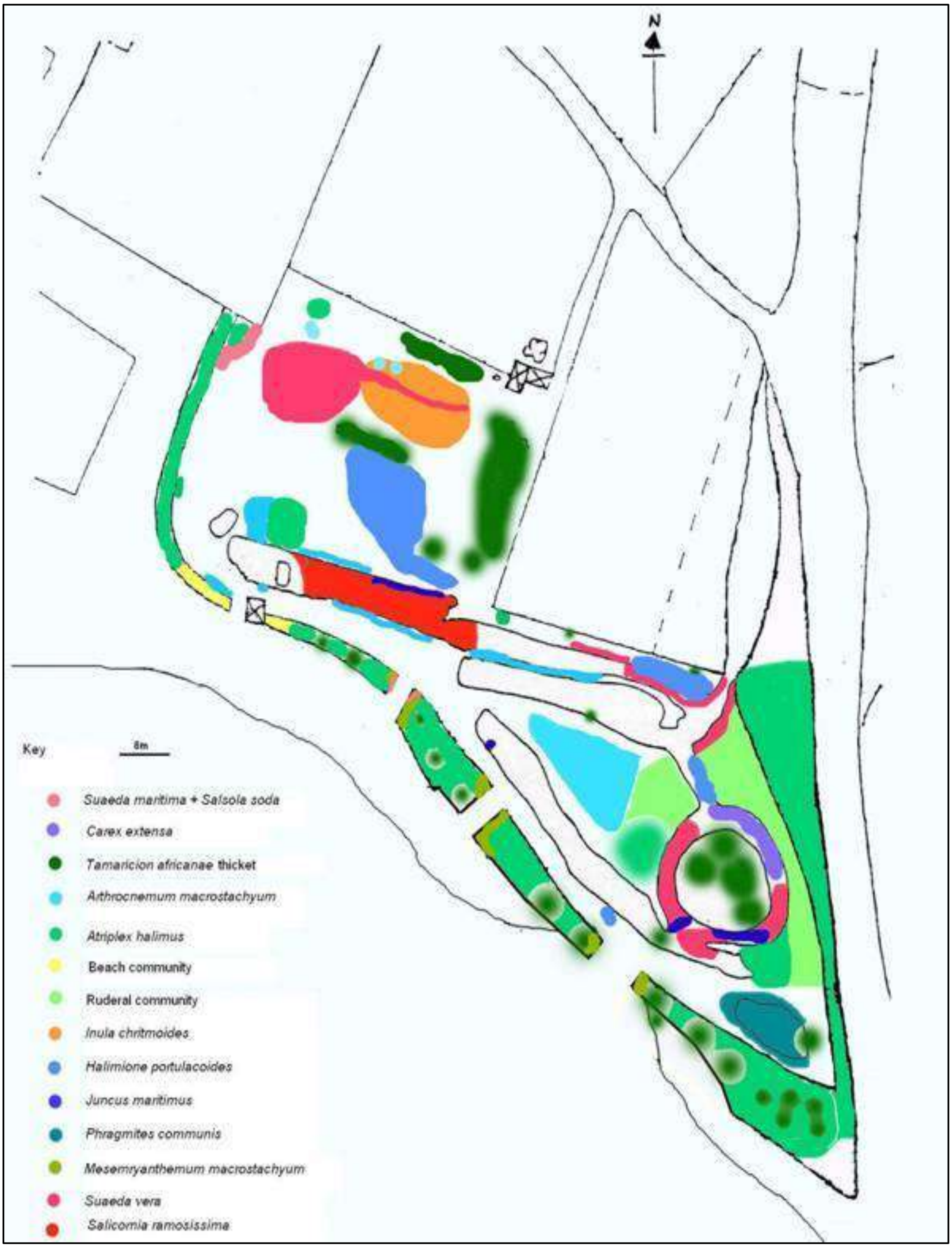


FIGURE 140: MAIN VEGETATION OCCURRING AT IL-BALLUT TA' MARSAXLOKK AS RECORDED DURING SEPTEMBER 2004, ADOPTED FROM THE NATURA 2000 MANAGEMENT PLAN 2006-2010

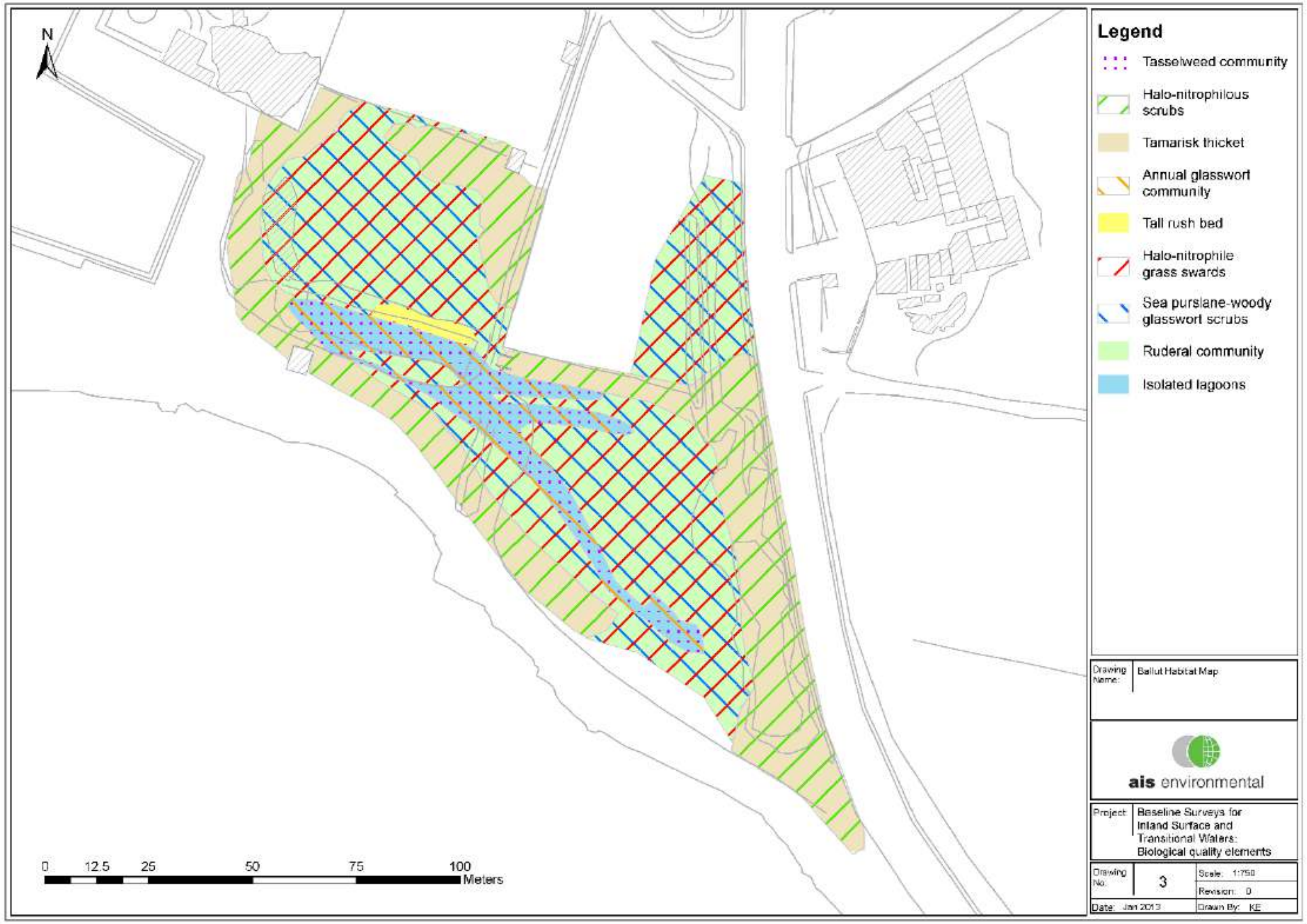


FIGURE 141: BALLUT TA' MARSAXLOKK HABITATS IN ACCORDANCE TO THE PALAEARCTIC HABITATS CLASSIFICATION, ADOPTED FROM THE T07 PROJECT

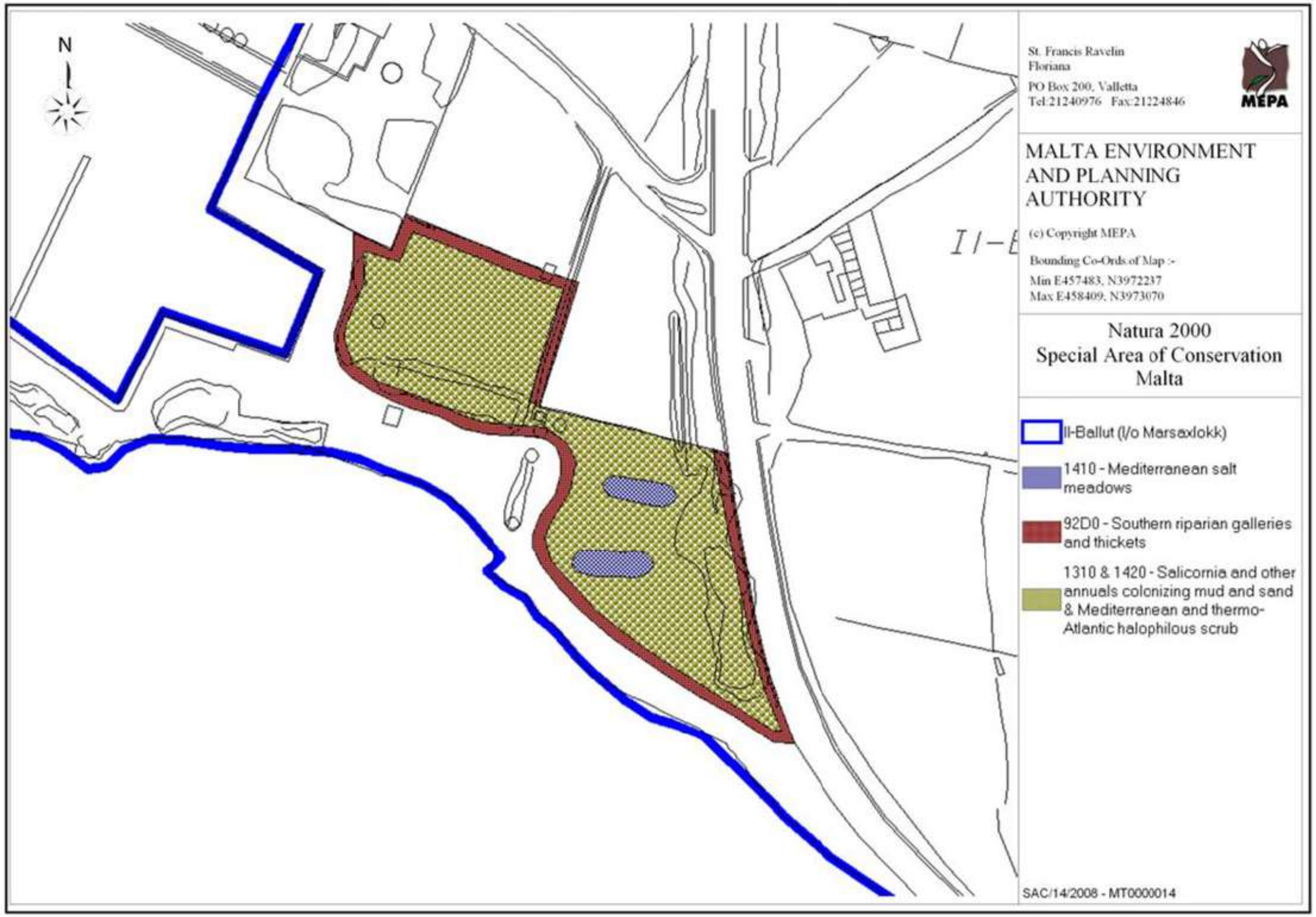


FIGURE 142: MAP INDICATING THE DISTRIBUTION OF RELEVANT HABITATS IN ACCORDANCE TO ANNEX I OF THE HABITATS DIRECTIVE (92/43/EEC) WITHIN THE BALLUT TA' MARSAXLOKK SAC OF INTERNATIONAL IMPORTANCE, ADOPTED FROM THE T07 PROJECT

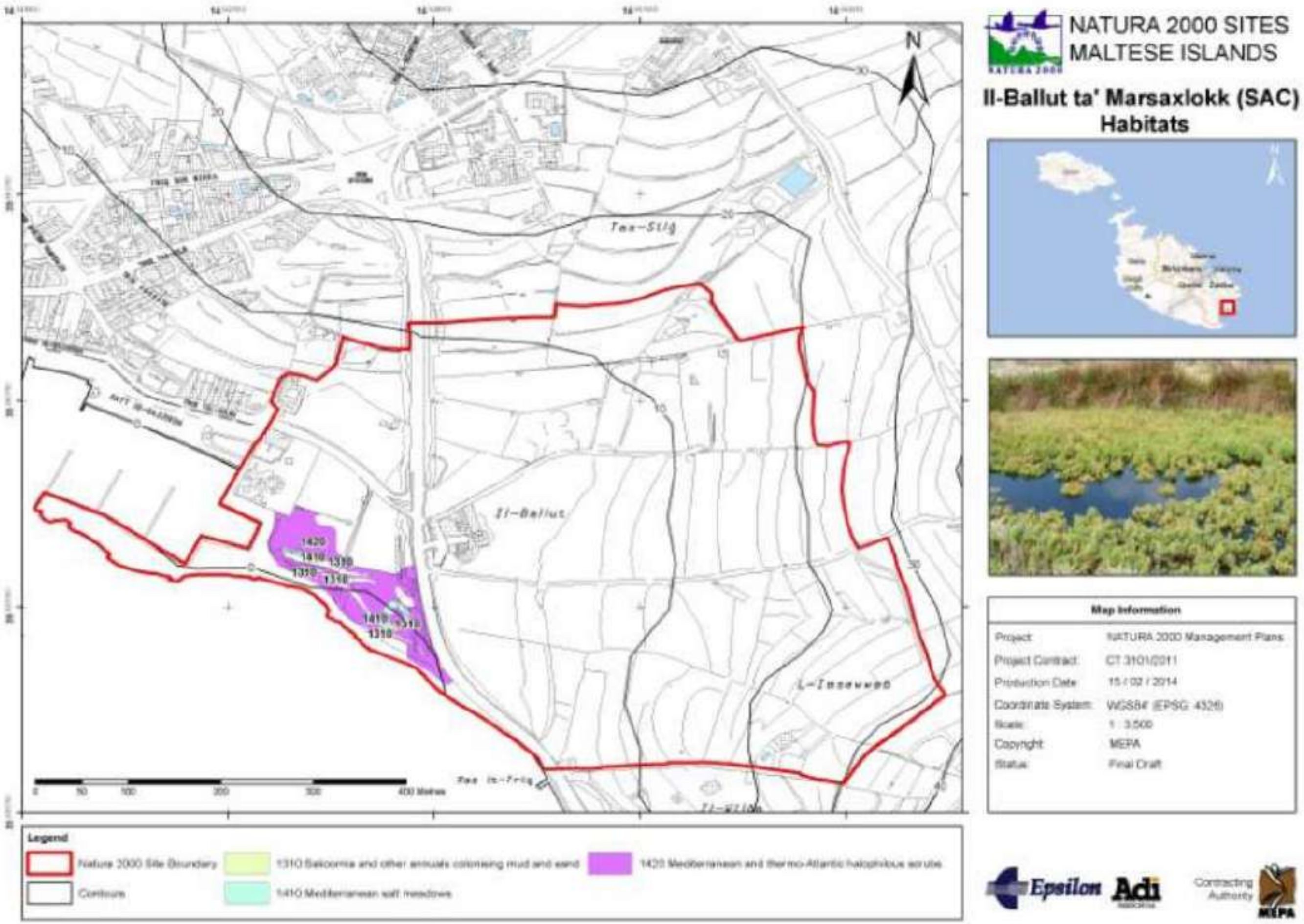


FIGURE 143: MAP INDICATING THE DISTRIBUTION OF RELEVANT HABITATS IN ACCORDANCE TO ANNEX I OF THE HABITATS DIRECTIVE (92/43/EEC) WITHIN THE BALLUT TA' MARSAXLOKK SAC OF INTERNATIONAL IMPORTANCE, ADOPTED FROM NATURA 2000 MANAGEMENT PLAN 2013

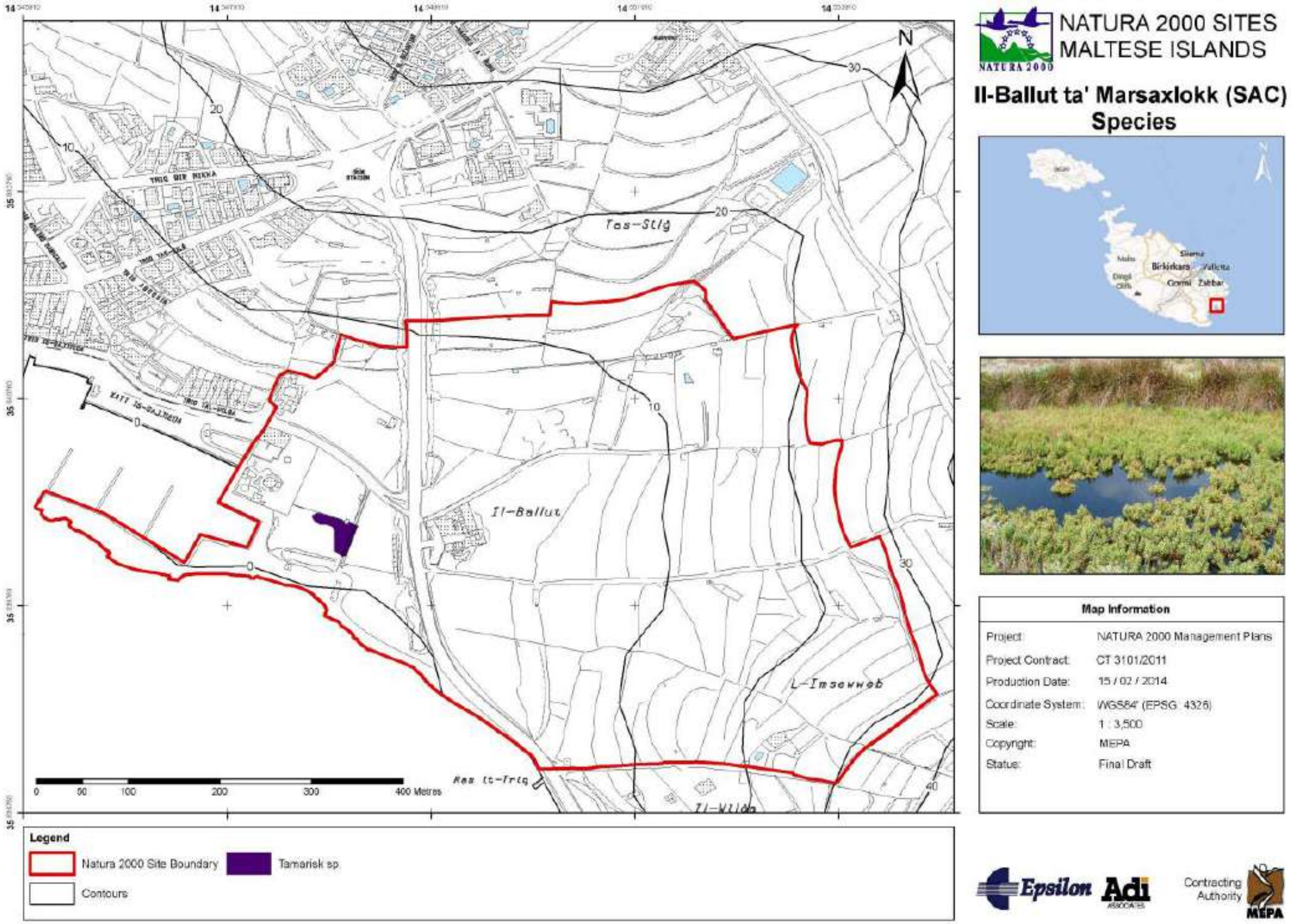


FIGURE 144: MAP INDICATING THE DISTRIBUTION OF TAMARISK TREES WITHIN THE BALLUT TA' MARSAXLOKK SAC, ADOPTED FROM NATURA 2000 MANAGEMENT PLAN 2013

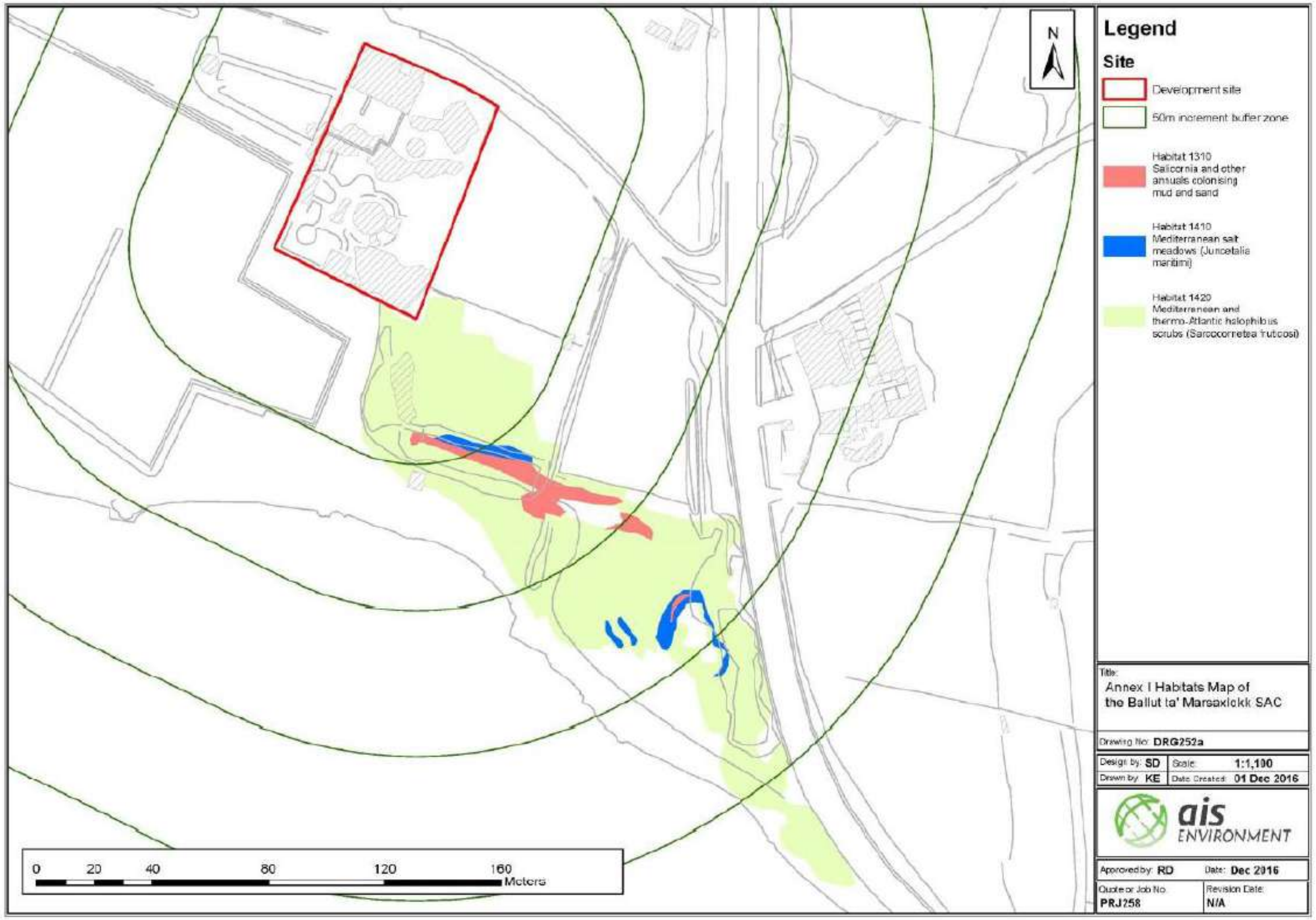


FIGURE 145: ANNEX I HABITATS AT BALLUT TA' MARSAXLOKK, ADOPTED FROM APPROPRIATE ASSESSMENT TECHNICAL REPORT (2018)

Under Annex B (for species) and Annex D (for habitats) of Article 17, Member States are to report all species listed in Annex II, IV and V of the HABITATS DIRECTIVE (92/43/EEC) as well as all habitats listed in Annex I including their distribution, range, approximate population size (for species), surface area covered (for habitats) and any other relevant information. The Management Plan of 2013 stated the conservation status of the Annex I habitats at il-Ballut ta' Marsaxlokk as per Article 17 of the HABITATS DIRECTIVE (92/43/EEC) as shown in Table 20. The trend for the parameters of area, structure and function (including typical species) and future prospects (as regards area, structure and function) for the three habitats at il-Ballut ta' Marsaxlokk is categorised as poor.

According to the Management Plan of 2013, Mediterranean and thermo-Atlantic halophilous scrubs (Sarcocornetea fruticose) (Habitat 1420) covers a significant area of the nature reserve (7,800m^2), however, this habitat is restricted in its potential to retreat due to the surrounding components. The structure and function of this habitat is considered to be inadequate and stable since its dominance is favoured by the relatively stable conditions at the salt marsh since 2005. Despite the substantial coverage and stability of the habitat within the site, the future prospects of the habitat are envisaged to be inadequate and deteriorating mainly due to bad prospects for the area, the inadequate prospects for the structure and function of the habitat, and the threat from sea level rise.

Mediterranean salt meadows (Juncetalia maritimi) (Habitat 1410) cover an area of 760m^2 and is bordered by the extent of the nature reserve, agricultural land to the north, the road to the east, and buildings to the west. This increases the vulnerability of the habitat to climate change and sea level rise as its potential to retreat is hindered making it unable to adapt to any potential impacts. Such restrictions have warranted the conservation status for the area as bad and increasing. The structure of the habitat is considered to be well conserved although prospects for its function are less favourable, warranting the parameter overall as an inadequate but improving conservation status. Similarly, to Habitat 1420, the future prospects of the habitat are envisaged to be inadequate and deteriorating.

Salicornia and other annuals colonising mud and sand (Habitat 1310) has the most limited distribution, covering an area of 200m^2. The space available for colonisation is restricted and the habitat is subjected to competition with other habitats, namely Habitats 1410 - Mediterranean salt meadows (Juncetalia maritimi) and 1420 - Mediterranean and thermo-Atlantic halophilous scrubs (Sarcocornetea fruticosi), the latter of which dominates the salt marsh. All three parameters are warranted a conservation status of bad and deteriorating due to the habitat's restricted distribution and domination by Habitats 1420 and 1410 as well as the threat from sea level rise.

TABLE 20: CONSERVATION STATUS OF ANNEX I HABITATS AT IL-BALLUT TA' MARSAXLOKK AS PER ARTICLE 17 OF THE HABITATS DIRECTIVE (92/43/EEC), ADOPTED FROM MANAGEMENT PLAN 2013

ANNEX I HABITAT	AREA	STRUCTURE & FUNCTION (INCLUDING TYPICAL SPECIES)	FUTURE PROSPECTS (AS REGARDS AREA, STRUCTURE & FUNCTION)
Mediterranean and thermo-Atlantic halophilous scrubs (Sarcocornetea	**Bad** and **increasing**	**Inadequate** and **stable**	**Inadequate** and **deteriorating**

ANNEX I HABITAT	AREA	STRUCTURE & FUNCTION (INCLUDING TYPICAL SPECIES)	FUTURE PROSPECTS (AS REGARDS AREA, STRUCTURE & FUNCTION)
fruticose) (Habitat 1420)			
Salicornia and other annuals colonising mud and sand (Habitat 1310)	**Bad** and **deteriorating**	**Bad** and **deteriorating**	**Bad** and **deteriorating**
Mediterranean salt meadows (Juncetalia maritimi) (Habitat 1410)	**Bad** and **increasing**	**Inadequate** but **improving**	**Inadequate** and **deteriorating**

3.6.1.2 Vegetative Species

In addition to identifying habitat distribution and coverage at il-Ballut ta' Marsaxlokk, the scope of the broad-brush survey was also to identify the individual vegetative species present. Table 21 provides a comparative inventory of the vegetative species recorded in different surveys, those undertaken for the Management Plan covering 2006-2010, the Management Plan for 2013, the T07 project and the present broad-brush survey.

The characteristic plant species which constitute the habitats identified on site in accordance to the Habitats Directive (92/43/EEC) were present in all four surveys carried out throughout the years. Almost all of the species constituting the sand dune/sandy beach community have only been recorded in the two Management Plans, with the exception of *Matthiola tricuspidata* (Three-horned Stocks) which was also recorded in the T07 project and the present study. In addition to those species constituting the habitats, three other species were recorded in all four surveys, these being *Atriplex halimus* (Shrubby orache),*Tamarix africana* (African Tamarisk) and *Matthiola tricuspidata* (Three-horned Stocks).

Several species were solely recorded in the T07 project; *Frankenia pulverulenta* (Annual Sea Heath), *Lolium rigidum* (Stiff ryegrass), *Lolium*. x *hubbardii* (Ryegrass hybrid), *Parapholis filiformis* (Slender sea hard grass), *Parapholis incurva* (Curved sicklegrass) and *Sphenopus divaricatus* (Coastal Grass). *Salsola soda* (Opposite-leaved Saltwort) was recorded in the Management Plan covering 2006-2010 but was never recorded again. The occurrence of *Phalaris minor* (Dwarf Canary Grass) was unique to the present study.

A number of ruderal species constitute the ruderal community and have the potential to encroach the area, replacing more ecologically important species and habitats. The species which occurred the most frequently throughout the years include *Oxalis pes-caprae* (Cape sorrel), *Galactites tomentosa* (Boar thistle), *Matthiola tricuspidata* (Three-horned Stocks) and *Melilotus messanensis* (Southern Melilot).

Over the years, the coverage of several plant species has fluctuated. Henwood (2005)[26] noted that a number of species have increased their overall coverage throughout the site, these being *Arthrocnemum macrostachyum* (Shrubby glasswort), *Atriplex halimus* (Shrubby orache), *Halimione portulacoides* (Sea purslane), *Limbarda crithmoides* (Golden samphire), *Suaeda vera* (Shrubby Seablight), *Suaeda maritima* (Herbaceous seepweed), *Tamarix* spp. (Tamarisk) and ruderals such as *Oxalis pes-caprae* (Cape sorrel). Conversely, the same study noted that the coverage of *Juncus maritimus* (Sea Rush) had decreased. Moreover, populations of *Carex extensa* (Long-bracted sedge) and *Phragmites australis* (Common Reed) were characterised as being stable. However, the Management Plan for 2013 noted a decrease in coverage for *Phragmites australis*. During a site visit at Ballut ta' Marsaxlokk, Nature Trust Malta have informed the authors that *Carex extensa* (Long-bracted sedge) and *Phragmites australis* (Common Reed) are no longer present naturally and attempts at their reintroduction at the salt marsh are being made.

Henwood (2005)[26] also noted that a number of species are no longer present at the salt marsh. *Salsola melitensis* (Maltese Salt Tree), *Vitex agnus-castus* (Chaste Tree) and *Limonium virgatum* (Violet Sea Lavender), *Juncus acutus* (Sharp-Pointed Rush), *Triglochin barrelieri* (Bulbous Arrowgrass), *Ruppia cirrhosa* (Spiral Ditchgrass), *Ruppia maritima* (Beaked Tassel Pondweed) have been regarded as extinct from the site. The loss of these species may be attributed to various causes including: interspecific competition, diseases, fires, vandalism, misidentifications and historical hydromorphological changes to the area namely through habitat engineering works and erosion. The explanation for such absences is unclear, since the literature citing the presence of such species does not provide adequate information on the location, extent and abundance of such species.

[26] Henwood, J. (2005): Updated Flora and Fauna species list of il-Ballut Wetland (Marsaxlokk). Unpublished 11pp

TABLE 21: VEGETATIVE SPECIES RECORDED DURING SURVEYS CARRIED OUT AS PART OF THE MANAGEMENT PLAN (2006-2010), MANAGEMENT PLAN (2013), T07 PROJECT AND THE PRESENT STUDY

HABITAT/ COMMUNITY	SPECIES	MANAGEMENT PLAN (2006-2010)	MANAGEMENT PLAN (2013)	T07	PRESENT STUDY
Habitat 1310	*Salicornia ramosissima* (Twiggy glasswort)	✓	✓	✓	✓
	Salsola soda (Opposite-leaved Saltwort)	✓			
Habitat 1420	*Arthrocnemum macrostachyum* (Shrubby glasswort)	✓	✓	✓	✓
	Halimione portulacoides (Sea purslane)	✓	✓	✓	✓
	Limbarda crithmoides (Golden samphire)	✓	✓	✓	✓
	Suaeda vera (Shrubby Seablight)	✓	✓		✓
	Atriplex halimus (Shrubby orache)	✓	✓	✓	✓
Habitat 1410	*Juncus maritimus* (Sea Rush)	✓	✓	✓	✓
	Carex extensa (Long-bracted sedge)	✓	✓	✓	
Beach Community	*Atriplex* spp. (Saltbushes)	✓			
	Pancratium maritimum (Sea daffodil)	✓	✓		
	Salsola kali (Saltwort)	✓	✓		

HABITAT/ COMMUNITY	SPECIES	MANAGEMENT PLAN (2006-2010)	MANAGEMENT PLAN (2013)	T07	PRESENT STUDY
	Cakile maritima (Sea Rocket)	✓	✓		✓
	Matthiola tricuspidata (Three-horned Stocks)	✓	✓	✓	✓
	Ruppia maritima (Beaked Tassel Pondweed)			✓	✓
	Tamarix africana (African Tamarisk)	✓	✓	✓	✓
	Tamarix gallica (Common Tamarisk)			✓	✓
	Phragmites australis (Common reed)	✓	✓	✓	
	Melilotus messanensis (Sicilian Melilot)	✓		✓	✓
	Suaeda maritima (Herbaceous seepweed)	✓		✓	✓
	Frankenia pulverulenta (Annual Sea Heath)			✓	
	Lolium rigidum (Stiff ryegrass)			✓	
	Lolium. x *hubbardii* (Ryegrass hybrid)			✓	
	Parapholis filiformis (Slender sea hard grass)			✓	
	Parapholis incurva (Curved sicklegrass)			✓	

HABITAT/ COMMUNITY	SPECIES	MANAGEMENT PLAN (2006-2010)	MANAGEMENT PLAN (2013)	T07	PRESENT STUDY
	Phalaris minor (Dwarf Canary Grass)				✓
	Sphenopus divaricatus (Coastal Grass)			✓	
Extinct Species	*Vitex agnus-castus* (Chaste Tree)	x	x	x	x
	Limonium virgatum (Violet Sea Lavender)	x	x	x	x
	Ruppia cirrhosa (Spiral Ditchgrass)	x	x	x	x
	Juncus acutus (Sharp-Pointed Rush)	x	x	x	x
Ruderal Community	*Ferula communis* (Giant Fennel)			✓	✓
	Lavatera arborea (Tree mallow)			✓	✓
	Euphorbia segetalis (Pine spurge)			✓	✓
	Mercurialis annua (Annual Mercury)			✓	
	Urtica dubia (Large-leaved neetle)			✓	
	Oxalis pes-caprae (Cape sorrel)	✓		✓	✓

HABITAT/ COMMUNITY	SPECIES	MANAGEMENT PLAN (2006-2010)	MANAGEMENT PLAN (2013)	T07	PRESENT STUDY
	Galactites tomentosa (Boar thistle)	✓		✓	✓
	Sonchus oleraceus (Smooth sow-thistle)			✓	✓
	Avena sterilis. (Sterile oat)			✓	✓
	Hordeum maritimum (Sea oats)				✓
	Matthiola tricuspidata (Three-horned Stocks)	✓		✓	✓
	Ricinus communis (Castor Oil Tree)	✓	✓		
	Melilotus messanensis (Southern Melilot)	✓		✓	✓
	Foeniculum vulgare (Fennel)	✓			✓

Many species which constitute the richness of the saltmarsh were introduced on site by man as shown in Table 22. The introduction of several species can be regarded as successful as they are still present to this day. However, other species have declined in their distribution or were completely lost from the site as previously mentioned.

TABLE 22: VEGETATIVE SPECIES INTRODUCED AT IL-BALLUT TA' MARSAXLOKK

INTRODUCED SPECIES	DESCRIPTION
Atriplex halimus (Shrubby orache)	Planted on the embankment in order to stabilize it.
Halimione portulacoides (Sea purslane)	Introduced in 1989 from the now extinct Ras iċ-Ċagħaq wetland.
Tamarix spp. (Tamarisk)	Planted on the embankment in order to stabilize it.
Carex extensa (Long-bracted sedge)	Introduced as seeds from population from only known location of Wied Musa.
Phragmites australis (Common reed)	Reintroduced and initially regenerated well after receding since 1997
Vitex agnus-castus (Chaste Tree) and *Limonium virgatum* (Violet Sea Lavender)	Introduced but now extinct.
Sphenopus divaricatus (Coastal Grass)	Introduced as seeds in 2012/2013, originated from a newly discovered population at Manoel Island.
Juncus maritimus (Sea Rush)	N/A
Pancratium maritimum (Sea daffodil)	N/A

Aquatic Flora

When the pools at il-Ballut ta' Marsaxlokk contain water, they support a vast array of aquatic flora, ranging from microscopic phytoplankton to macroscopic algal species. The broad-brush survey for the present study did not involve an in-depth characterisation of the aquatic flora. As previously mentioned, the algal opportunistic species, *Ulva intestinalis* was noted in one of the pools containing water. This species was also mutually recorded by Henwood (2006) and the Management Plan covering 2006-2010. Henwood (2006), the Management Plan covering 2006-2010 and the T07 project have noted records of various aquatic flora in the pools of the marshland as shown in Table 23. *Chlamydomonas* sp. and *Chlorella* sp. were mutual amongst Henwood (2006) and the T07 project, *Navicula* sp. was common in both the Management Plan covering 2006-2010 and the T07 project whereas *Ulva intestinalis* was mutual amongst the two Managements Plans and the present study.

The type of environment within which each species is found i.e. aquatic and terrestrial is specified and the type of aquatic environment i.e. marine, brackish and freshwater habitats which are typical of the relevant species listed is also specified. A number of the recorded phytoplankton species can occupy marine, brackish, freshwater and terrestrial environments, although these were identified to genus level, certain species of which may require more specialised environments. These included *Anabaena* sp., *Chlorella* sp., *Navicula* sp., *Nitzschia* sp. and *Oscillatoria* sp. A number of the recorded phytoplankton species may inhabit marine and freshwater environments including *Achnanthes brevipes* var. *intermedia*, *Amphora ovalis*, *Nitzschia longissimi* and *Phacus* sp. However, other phytoplankton species recorded were typically exclusive of freshwater environments, including *Apiocystis* sp., *Closterium navicular*, *Eudorina* sp., *Gomphonema augur*, *Navicula subminuscula* and *Nitzschia reversa*.

Almost all the macrophytes recorded from the pool are green algae, belonging to the Chlorophyta division, except for *Vaucheria* spp. which is yellow-green algal species belonging to the phylum Ochrophyta. All species can occur in marine, brackish and freshwater environments except for *Ulva flexuosa* which typically occupies marine and freshwater environments. The Management Plan covering 2006-2010 noted several aquatic macrophyte species occupying the beach. The presence of the marine seagrass species *Cymodocea nodosa* indicates that seagrass beds of this species are present along the seabed within the area of Marsaxlokk Bay. The remaining macrophytes are species of green algae, *Caulerpa prolifera* and *Ulva prolifera* which have a wider tolerance to salinity compared to the seagrass species.

For the T07 project, the abundance of phytoplankton assemblages was recorded during four surveys carried out every three months during the sampling period as shown in Table 24. Abundance of each species was recorded as the number of cells per litre (L). During the month of June, no assemblages were recorded due to the typical absence of water in the pools at the salt marsh during the dry season which spans from April to August. The lowest total abundance of phytoplankton was recorded during March, increasing drastically in September and attaining the highest value in December. This pattern may be due to the washing of inorganic nutrients toward the ponds caused by the first rainfalls, while the progressive depletion of nutrients, together with the reduction of the photoperiod, lead to a more balanced algal community in the following season. Species characterising eutrophicated sites, such as cyanobacteria, are scarcely represented, suggesting a moderate intake of nutrients from the surrounding environments.

Chlamydomonas sp. was amongst the most abundant species in September and reached the highest abundance in December, exceeding 60,000 individual cells. Due to its ubiquitous nature, *Chlamydomonas* can occupy marine, brackish, freshwater and terrestrial environments. In September, other abundant species included *Cryptomonas cf*. *ovata*, *Eudorina* sp. and *Closterium* sp. In December, *Dictyosphaerium* sp. was also highly abundant. Several phytoplankton species recorded are tolerant to organic pollution potentially decreasing the water quality of the pools. These species include

Chlamydomonas, sp. *Nitzschia* spp., *Oscillatoria* sp. and *Phacus* sp.[27] Such organic pollution may originate from agricultural run-off from surrounding land uses, although loading into the salt marsh may be to a moderate extent as previously stated.

[27] Bruun, K. (2012). Algae can function as indicators of water pollution. Waterline. Washington State Lake Protection Association. https://www.walpa.org/waterline/june-2012/algae-can-function-as-indicators-of-water-pollution/

TABLE 23: AQUATIC FLORAL SPECIES RECORDED DURING SURVEYS CARRIED OUT AS PART OF HENWOOD (2006), MANAGEMENT PLAN (2006-2010), T07 PROJECT AND THE PRESENT STUDY M = MARINE, B = BRACKISH WATER, F = FRESHWATER, T = TERRESTRIAL

		Henwood (2006)	Management Plan (2006-2010)	T07	Present Study
Phytoplankton	*Achnanthes brevipes var. intermedia* (M, F)		✓		
	Amphora ovalis (M, F)			✓	
	Anabaena sp. (M, B, F, T)			✓	
	Apiocystis sp. (F)			✓	
	Chlamydomonas sp. (M, B, F, T)	✓		✓	
	Chlorella sp. (M, B, F, T)	✓		✓	
	Closterium navicular (F)			✓	
	Closterium sp. (F, T)			✓	
	Cosmarium sp. (M, F, T)			✓	
	Cryptomonas cf. ovata (B, T)			✓	
	Dictyosphaerium sp. (M, F, T)			✓	
	Eudorina sp. (F)			✓	
	Gomphonema augur (F)			✓	
	Navicula accomoda (B, F)			✓	
	Navicula marginulata (B, F)			✓	
	Navicula sp. (M, B, F, T)		✓	✓	

		Henwood (2006)	Management Plan (2006-2010)	T07	Present Study
	Navicula subminuscula (F)			✓	
	Nitzschia longissimi (M, F)		✓		
	Nitzschia reversa (F)			✓	
	Nitzschia sp. (M, B, F, T)			✓	
	Oscillatoria sp. (M, B, F, T)			✓	
	Phacus sp. (M, F)			✓	
	Prorocentrum sp. (M, B, F)			✓	
	Synedra pulchella (B, F)		✓		
	Tetraselmis sp. (M, B, F)	✓			
Macrophytes	*Cladophora* sp. (M, B, F)	✓			
	Ulva flexuosa (M, F)	✓			
	Ulva intestinalis (M, B, F)	✓	✓		✓
	Vaucheria spp. (M, B, F, T)		✓		
	Wittrockiella sp. (M, B, T)	✓			
Marine Macrophytes (Beach)	*Cymodocea nodosa* (M)		✓		
	Caulerpa prolifera (M, B)		✓		
	Ulva prolifera (M, B, F)		✓		

TABLE 24: PHYTOPLANKTONIC ASSEMBLAGES FROM THE FOUR SURVEYS FOR BALLUT TA' MARSAXLOKK UNDERTAKEN AS PART OF THE T07 PROJECT

Ballut ta' Marsaxlokk – Phytoplanktonic Assemblage

March		June		September		December	
Species	**Abundance**	**Species**	**Abundance**	**Species**	**Abundance**	**Species**	**Abundance**
BACILLARIOPHYCEAE *Closterium navicula*	115	--	--	CHLOROPHYCEAE *Apiocystis* sp.	418	CYANOPHYCEAE *Anabaena* sp.	157
BACILLARIOPHYCEAE *Gomphonema augur*	<30	--	--	CYANOPHYCEAE *Anabaena* sp.	2,228	BACILLARIOPHYCEAE *Amphora ovalis*	627
BACILLARIOPHYCEAE *Navicula accomoda*	937	--	--	CHLOROPHYCEAE *Chlamydomonas* sp.	11,560	BACILLARIOPHYCEAE *Closterium* sp.	313
BACILLARIOPHYCEAE *Navicula subminuscola*	240	--	--	BACILLARIOPHYCEAE *Closterium* sp.	7,103	CHLOROPHYCEAE *Chlamydomonas* sp.	60,638
BACILLARIOPHYCEAE *Navicula* sp.	479	--	--	ZYGNEMOPHYCEAE *Cosmarium* sp.	696	ZYGNEMOPHYCEAE *Cosmarium* sp.	313
BACILLARIOPHYCEAE *Nitzschia* sp.	<30	--	--	CRYPTOPHYCEAE *Cryptomonas* cf. *ovata*	12,814	CHLOROPHYCEAE *Dictyosphaerium* sp.	11,595
EUGLENOPHYCEAE *Phacus* sp.	<30	--	--	CHLOROPHYCEAE *Eudorina* sp.	8,078	BACILLARIOPHYCEAE *Nitzschia reversa*	470
		--	--	BACILLARIOPHYCEAE *Navicula marginulata*	1,114	DINOPHYCEAE *Prorocentrum* sp.	157
		--	--	BACILLARIOPHYCEAE *Nitzschia* sp.	139		
		--	--	CYANOPHYCEAE *Oscillatoria* sp.	139		
		--	--	EUGLENOPHYCEAE *Phacus* sp.	139		
DETECTION LIMIT	30	DETECTION LIMIT	60	DETECTION LIMIT	120	DETECTION LIMIT	120

Vegetative Species within the Trench

The individual vegetative species were also identified for those occupying the ditch located towards the northern boundary of the saline marshland. These species are listed in Table 25. The species diversity of this area is dominated by alien (invasive and naturalised) species which include *Arundo donax* (Great Reed) at the roadside perimeter, *Mesembryanthemum lancifolium* (Lance-leaved Ice Plant), *Phalaris minor* (Lesser Canary Grass) and *Ricinus communis* (Castor Oil Tree). Two species identified are protected by law; *Capparis orientalis* (Caper bush) and *Tamarix africana* (African Tamarisk).

TABLE 25: LIST OF VEGETATIVE SPECIES IDENTIFIED WITHIN THE DITCH LOCATED TOWARDS THE NORTHERN BOUNDARY OF THE SALINE MARSHLAND

Species	Status
Arundo donax (Great Reed)	Invasive alien
Capparis orientalis (Caper bush)	Protected by law under Schedule VIII of FLORA, FAUNA AND NATURAL HABITATS PROTECTION REGULATIONS (S.L. 549.44)
Lavatera arborea (Tree Mallow)	/
Mesembryanthemum lancifolium (Lance-leaved Ice Plant)	Invasive alien
Opuntia ficus-indica (Prickly Pear)	Naturalised alien
Phalaris minor (Lesser Canary Grass)	/
Ricinus communis (Castor Oil Tree)	Invasive alien, listed under Schedule II of TREES AND WOODLANDS PROTECTION REGULATIONS (S.L.549.123)
Tamarix africana (African Tamarisk)	Protected by law under Schedule I of TREES AND WOODLANDS PROTECTION REGULATIONS (S.L.549.123)

3.6.1.3 Macroinvertebrates

The ecological dynamics at il-Ballut ta' Marsaxlokk incorporate both floral and faunal species which inhabit the aquatic and terrestrial habitats within the site. The hydrological regime of the salt marsh inevitably impacts the aquatic biota such as the macroinvertebrates occupying the pools. In this respect, data on macroinvertebrates were compiled from various sources as well as collected as part of the present study. Especially for the aquatic fauna, such data will elucidate how the lifecycles of such biota correspond to the instability of water availability and its physico-chemical properties throughout the year. Table 26 provides a comparative inventory of the macroinvertebrate species recorded in different surveys, those undertaken for the Management Plan covering 2006-2010, the Management Plan for 2013, the T07 project and the present study. The type of environment within which each species is found i.e. aquatic and terrestrial is specified and the type of aquatic environment i.e. marine, brackish and freshwater habitats which are typical of the relevant species listed is specified.

Due to time constraints, analysis of aquatic macroinvertebrates for the present study was carried out only for the month of March. Therefore, a comparative assessment of diversity and ecological status of the pools at the salt marsh can only be carried out for March. However, the T07 project provides information on biological attributes for a one-year period which still provides a more holistic appraisal of the site’s ecology. Three of the four species recorded during the present study are exclusively freshwater species and include the mollusc, *Lymnaea* sp. Dixidae sp. and *Dytiscus* sp. The remaining insect species, *Chironomus plumosus* can occupy, brackish, freshwater and terrestrial environments.

The surveys carried out as part of the site’s Management Plan covering 2006-2010 and that of 2013 were general and noted mollusc, arachnid, crustaceans and a few insect species at the salt marsh. These species were highlighted mainly since some are listed in the Red Data Book. These include:

- the vulnerable *Brachygluta globulicolis aubei* and
- the rare *Brachygluta simplex hipponensis* which both locally have a restricted distribution
- the endangered *Hydrobia acuta* and
- the endemic *Stenosis melitana*

Some of the species recorded by the Management Plans are exclusively marine such as *Leucophytia bidentata*, *Melarhaphe neritoides* and *Truncatella subcylindrica*, whereas others are typical of brackish and/or freshwater environments. The insect species recorded in the latest Management Plan are marine and/or terrestrial in nature.

The T07 project gave a more detailed account on the macroinvertebrates present, specifically within the selected pool of the salt marsh. A number of recorded species, particularly those which were identified at higher taxon levels, inhabit marine, brackish and freshwater environments, namely Chironomidae sp., Culicidae sp. and Nematoda sp. Other species are typical of both brackish and freshwater environments, including *Corixa* sp., *Enochrus* sp. and Gyrinidae sp. However, a number of recorded species are exclusive to freshwater (*Anax* sp. and *Plea* sp.)

Other invertebrates present which were solely listed in the Natura 2000 Standard Data Form for the site include two terrestrial dipterans (i) *Nemotelus brachystomus* which is exclusively found at il-Ballut and (iii) *Aphaniosoma grisescens*, both of which are considered to be very rare and (iv) *Armadilloniscus ellipticus*, a terrestrial isopod which is exclusively found at il-Ballut.

TABLE 26: MACROINVERTEBRATE SPECIES RECORDED FROM THE POOLS AT IL-BALLUT TA' MARSAXLOKK DURING SURVEYS CARRIED OUT AS PART OF THE MANAGEMENT PLAN (2006-2010), MANAGEMENT PLAN (2013), T07 PROJECT AND THE PRESENT STUDY. M = MARINE, B = BRACKISH WATER, F = FRESHWATER, T = TERRESTRIAL

TAXONOMIC GROUP	SPECIES	MANAGEMENT PLAN (2006-2010)	MANAGEMENT PLAN (2013)	T07	PRESENT STUDY
Molluscs	*Eupaludestrina stagnorum* (B, F)	✓			
	Hydrobia acuta (B)	✓	✓		
	Leucophytia bidentata (M)	✓			
	Lymnaea sp. (F)				✓
	Melarhaphe neritoides (M)	✓			
	Truncatella subcylindrica (M)	✓			
Arachnid	*Argiope trifasciata* (T)	✓			
Branchiopod	*Daphnia pulex* (B, F)	✓			
Copepod	Harpacticoida (M, B, F, T)	✓			
Insects	*Agabus* sp. (M, F)			✓	
	Anax sp. (F)			✓	
	Brachygluta globulicolis (M, T)		✓		
	Brachygluta simplex hipponensis (M, T)		✓		
	Chironomidae sp. (M, B, F, T)			✓	

Taxonomic Group	Species	Management Plan (2006-2010)	Management Plan (2013)	T07	Present Study
	Chironomus plumosus (B, F, T)				✓
	Corixa sp. (B, F)			✓	
	Culicidae sp. (M, B, F, T)			✓	
	Dixidae sp. (F)				✓
	Dytiscus sp. (F)				✓
	Enochrus sp. (B, F)			✓	
	Gammaridae sp. (M, B, F)			✓	
	Gyrinidae sp. (B, F)			✓	
	Nematoda sp. (M, B, F, T)			✓	
	Plea sp. (F)			✓	
	Stenosis melitana (T)		✓		
	Stratiomyidae sp. (F, T)			✓	
	Syrphidae sp. (B, F, T)			✓	

Results of the macroinvertebrate analysis for the T07 project as well as for the present study (March) are shown in Table 27. The T07 project recorded a higher number of species and overall abundance compared to those recorded during the present study. This discrepancy may be associated with the level of water present in the pool at the time of sampling during the T07 project and the NP02/21 project which ran in parallel to the present study. This may be especially so since the biocenosis of the pools are strongly influenced by the presence of water as described further below.

In the T07 project, several macroinvertebrate species were common in all sampling months when water was present. These included *Enochrus* sp., Chironomidae sp., Culicidae sp., *Corixa* sp. and *Anax* sp.

Enochrus sp. and *Corixa* sp. are found in brackish and freshwater environments. The species of the former genus are among the most common species water scavenger beetles in Europe.[28] The available literature suggests that the presence of *Enochrus* in temporary pools is dependent on availability of water. Depending on the species, larvae may be found during any season. Individuals may be present during the dry season as unhatched eggs, whereas juveniles in their larval stages may burrow in the substrate to avoid the drought associated with the dry season. Adults typically disperse from the pool to avoid drought.[29]

Some members of Corixidae, the family of the *Corixa* genus are able to tolerate low levels of oxygen and thrive well in poor water quality conditions since the latter favours the abundance of food sources of these waterbugs.[30] due to their high tolerance to such conditions, they are usually one of the first macroinvertebrate members to occupy early successional stages in new water bodies including ponds, lakes, rivers, streams, small waters in peatlands, marshes or swamps, and puddles including artificial water bodies.[31] A particular species, *Corixa punctata* has been recorded to have one generation per year, with eggs hatching in spring and bearing a short growth period ranging between 2 and 4 months, reaching the adult stage by summer.[32] For other species such as *Corixa affinis*, individuals overwinter in the egg stage and similarly to the aforementioned species, reaches adulthood by summer.[31]

Members of Chironomidae typically have a high abundance and are ubiquitous in their distribution, occurring in freshwater, brackish, terrestrial and marine environments. Similarly to the T07 project, a member of Chironomidae, *Chironomus plumosus* was recorded in the present study and had the highest abundance. Larvae of this family can tolerate high variations in physico-chemical parameters such as dissolved oxygen, temperature, pH, salinity, depth, current and productivity. The seasonal availability of larval and adult stages varies between species, however, as an aquatic insect, members of this family require water to lay their eggs and the adult stage is quite short as adults die shortly after mating.[33] Similarly to Chironomidae, members of Culicidae have a global distribution and are ubiquitous in their distribution, occurring in freshwater, brackish, terrestrial and marine environments. They also occupy rural

---

[28] Darilmaz, M. C. & Kiyak, S. (2009). The Genus *Enochrus* Thomson (Coleoptera: Hydrophilidae) from Turkey, checklist and new records. Archives of Biological Sciences, 61(4), 767-772. doi: 10.2298/ABS0904767D

[29] Byttebier, B., Fischer, S. & Torres, P. L. M. (2012). Seasonal dynamics of larvae and adults of two *Enochrus* Thomson (Coleoptera: Hydrophilidae) species in temporary and permanent water bodies of an urban park in Buenos Aires. Revista Chilena de Historia Natural, 85(3), 281-289. doi: 10.4067/S0716-078X2012000300003

[30] Lock, K., Adriaens, T., Van De Meutter, F. & Goethals, P. (2013). Effect of water quality on waterbugs (Hemiptera: Gerromorpha & Nepomorpha) in Flanders (Belgium): results from a large-scale field survey. Annales de Limnologie - International Journal of Limnology, 49(2), 121–128. doi:10.1051/limn/2013047

[31] Papáček, M. (2001). Small aquatic and ripicolous bugs (Heteroptera: Nepomorpha) as predators and prey: The question of economic importance. European Journal of Entomology, 98, 1-12.

[32] Cayrou, J. & Céréghino, R. (2005). Life-cycle phenology of some aquatic insects: implications for pond conservation. Aquatic Conservation: Marine and Freshwater Ecosystems, 15, 559–571. doi: 10.1002/aqc.739

[33] Karima, Z. (2021). Chironomidae: Biology, Ecology and Systematics. doi: 10.5772/intechopen.95577

and urban habitats. The aquatic environment is required for deposition of eggs and development of later life stages in some members.[34]

The Shannon-Wiener Diversity Index (H_{SH}) was used as an indication of macroinvertebrate species diversity within the sampled pool for the T07 project and the present study. The normalised results were used to calculate the Shannon equitability index (E_{SH}) to allow the comparison between the retrieved assemblage and a hypothetical one of homogeneous species evenness. Table 28 shows that the species diversity of macroinvertebrates was higher in the T07 project than the present study for the month of March. For the T07 project, the month of March recorded the highest diversity, followed by December, with September having the lowest species diversity. This correlates with the assessment of ecological status of the pool under study. For the present study, the results indicate a “Bad” ecological status for March, whereas for the T07 project, a “Good” ecological status was warranted for March, “Bad” status for September and “Moderate” status for December. For the present study, the “Bad” status may have resulted from the fact that the pools were already experiencing gradual desiccation during the month of March. This would inevitably influence the macroinvertebrate community as population numbers dwindle when individuals leave the pools for more favourable environments. The definitions of status as per the WATER FRAMEWORK DIRECTIVE (2000/60/EC) are shown in Table 9 in the Section 3.6.1.3. No results for the month of June during the T07 project are provided due to the absence of water during the dry season which typically ranges between April and August.

The composition of the observed biocenosis appears to be strongly influenced by the periodical evaporation of the area. The recolonisation process begins at the end of the dry season, when freshwater from precipitation and land drainage accumulates in the pools after a period of drought. The first assemblages are highly unbalanced towards opportunistic species (e.g. chironomids, culicids) that start their reproductive cycle. For this reason, September recorded high population numbers pertaining to lower species diversities.

[34] Wallace, J. R. (2009). Diptera (Biting Flies). In Likens, G. E. (Ed.), Encyclopedia of Inland Waters (pp. 280-287). Academic Press.

Table 27: Macrobenthic assemblages from the four surveys for Ballut ta' Marsaxlokk adopted from the T07 Project and for the survey carried out for the present study (March)

	March		June		September		December	
	T07	Present Study						
Species	Abundance		Species	Abundance	Species	Abundance	Species	Abundance
Insecta *Agabus* sp. (adult)	9	--	--	--	Insecta *Agabus* sp. (adult)	3	Insecta Chironomidae sp.	1
Insecta *Agabus* sp. (larvae)	9	--	--	--	Insecta Chironomidae sp.	207	Insecta *Corixa* sp. (adult)	6
Insecta *Anax* sp.	1	--	--	--	Insecta *Corixa* sp. (nymph)	1	Insecta Culicidae sp.	21
Insecta Chironomidae sp.	24	--	--	--	Insecta Culicidae sp.	45	Insecta *Enochrus* spp. (adult)	6
Insecta *Chironomus plumosus*		20	--	--	Insecta *Enochrus* sp. (adult)	35	Crustacea Gammaridae sp.	6
Insecta *Corixa* sp. (adult/nymph)	27	--	--	--	Insecta Syrphidae sp.	9	Nematoda Nematoda sp.	1
Insecta Culicidae sp.	1	--	--	--			Insecta *Plea* sp. (adult)	5
Insecta Dixidae sp.		1	--	--				
Insecta *Dytiscus* sp.		1	--	--				
Insecta *Enochrus* sp. (adult)	2	--	--	--				
Insecta Gyrinidae sp. (larvae)	12	--	--	--				
Mollusca *Lymnaea* sp.		5	--	--				

	March		June		September		December	
INSECTA Stratiomyidae sp.	1	--	--	--				
TOTAL ABUNDANCE	86	27	TOTAL ABUNDANCE	--	TOTAL ABUNDANCE	300	TOTAL ABUNDANCE	46

TABLE 28: ASSESSMENT OF BIODIVERSITY INDICES AND ECOLOGICAL STATUS FOR BALLUT TA' MARSAXLOKK ADOPTED FROM THE T07 PROJECT AND FOR THE SURVEY CARRIED OUT FOR THE PRESENT STUDY (MARCH)

MARCH			JUNE		SEPTEMBER		DECEMBER	
	T07	Present study	T07		T07		T07	
H_{SH}	2.467	0.779	H_{SH}	--	H_{SH}	1.387	H_{SH}	2.254
E_{SH}	0.778	0.562	E_{SH}	--	E_{SH}	0.537	E_{SH}	0.803
Class	Good	Bad	Class	--	Class	Bad	Class	Moderate

4 DISCUSSION

4.1 DESIGNATION OF THE WATER BODY

According to the 2nd Water Catchment Management Plan (WCMP), Il-Ballut ta' Marsaxlokk is designated as a Heavily Modified Water Body (HMWB). In accordance to the WFD, a HMWB is "*a body of surface water which as a result of physical alterations by human activity is substantially changed in character, as designated by the Member State in accordance with the provisions of Annex II*".

WFD CIS Guidance Document No.4 describes the steps required to lead to the identification of HMWB in further detail as reproduced hereunder:

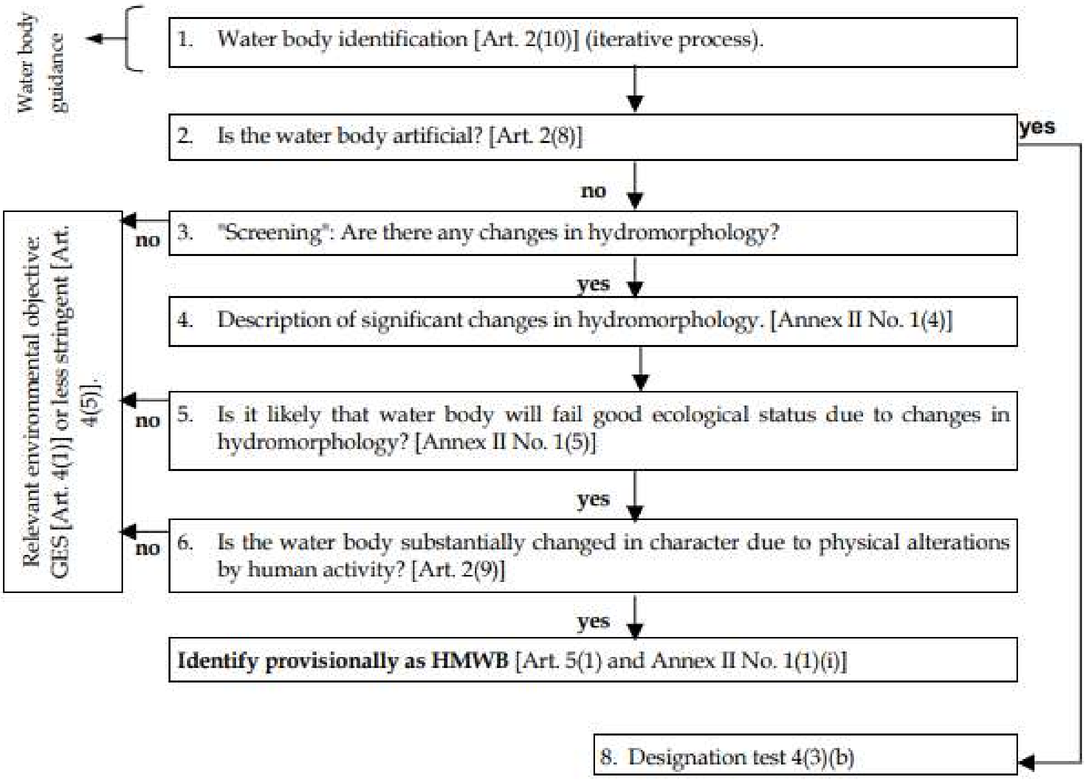


FIGURE 146: STEPS LEADING TO THE PROVISIONAL IDENTIFICATION OF HMWB

4.1.1 Step 2: Is the water body artificial?

This step defines whether the water body has been "created by human activity" or otherwise. An artificial water body is defined as "*a surface water body which has been created in a location where no significant water existed before and which has not been created by the direct physical alteration of an existing water body or movement or realignment of an existing water body*". The Guidance document also states that this does not necessarily mean that there was only dry land present before, and includes ponds (as in the case of il-Ballut ta' Marsaxlokk) "*which were not regarded as a discrete and significant element of surface water and therefore not identified as a water body*".

Even though this definition may be applicable to the site, one must first consider all of the historical events that have occurred within the site. Historically, the area that is currently known as il-Ballut ta'

Marsaxlokk comprised of fish ponds, which stored water and contained fish caught by local fishermen for harvest.

The functionality of the fish ponds was abruptly halted by a natural catastrophic event i.e. an earthquake-induced major tidal wave (see Section 1.1.1), which led to sediment deposition inside these pools. This event altered the geomorphological terrain of the area and rendered the pools unusable.

Figure 3 shows how the area comprising the canal (= Il-Kanal) already began functioning as a saline marshland in the 1950s (see Section 1.1.1). This marshland formed naturally with opportunistic species colonising the pool's sediments which were not inundated with water. As ecological succession took place in the area, the site become more specialised and formed typical marshland habitats. Such natural events shaped the flora and fauna of the area which in turn adapted to such changes becoming highly dependent on seasonality.

The above historical account, suggests that the water body was formed naturally following a catastrophic event. This suggests that il-Ballut ta' Marsaxlokk should not be designated as an artificial water body.

4.1.2 Step 3: Screening: Are there any changes in hydromorphology ?

Step 3 is a process which filters out water bodies that should not be considered any further for HMWB designation tests. This step is mostly applicable to water bodies which are likely to fail to achieve Good Ecological Statues (GES) without experiencing any hydromorphological changes.

Since il-Ballut has experienced significant changes in hydromorphology over the years, the assessment should proceed to Step 4.

4.1.3 Step 4: Description of significant changes in hydromorphology

There are three components to define surface waters as required in Art. 5(1):

1. Main specified uses of the water body

The extensive network of canals, gutters and reservoirs connected to the marshland is proof that the main and original intended use of the water body is for draining excess run-off water originating from the Delimara and Tas-Silg catchment areas.

A consequential but very important use of the site is for ecological purposes. The site is recognised for its natural importance and designated as a Natura 2000 Special Area of Conservation which consists of various Annex I habitat types, and rare habitats within the Maltese context.

2. Significant anthropogenic pressures; and

Anthropogenic pressures at il-Ballut remain valid to this date, as the site is currently experiencing significant coastal erosion effects caused by modifications to the infrastructure along the Marsaxlokk Bay's coastline which have changed the bay's wave hydrodynamics. Over the years this has caused a significant reduction in the footprint of the site, its peripheral habitats and the area that accommodates brackish water pools within the marshland. Additional anthropogenic influences to the site include rainwater runoff influx from chemical pesticides used in the agriculture industry, internal combustion engine pollutants, detergents, industrial activity, illegal fly tipping of waste etc.

3. Significant impacts of these pressures on hydromorphology

Seawater input became significantly restricted when a sand embankment was constructed in the 1980s which segregated the marshland from the southern beach and the sea. Culverts were also laid to connect the marshland directly to the sea. However, such direct connections have been discontinued in recent years due to significant debris accumulation within the culverts. As a result of historical modifications, there is very limited water circulation in the area. Former freshwater springs that fed some of the waters in Marsaxlokk, have since dried up and any connections with the sea have either been blocked artificially or cannot be kept open due to present day infrastructural interventions that lead to increased rates of siltation. These systems they have been continuously engineered throughout history and are thus considered as heavily modified systems. For example, the 100mm pipe once connected the salt marsh to il-Menqa area. Due to continued infrastructural works on the Menqa area and adjacent coastline, this direct connection to the sea has been blocked, resulting in the drying up of the marshland during the summer months.

The site has been subjected to numerous physical alterations by human activity (see Section 1.1.1). It has also undergone permanent and substantial changes in morphology and hydrology from its pristine state and is likely to fail good ecological status (GES) due to changes in hydromorphology e.g.: water scarcity during the summer season. The Management Plan for the site states that a culvert in the form of a 100mm pipe present along the western border of the habitat functioned to regulate water by preventing flooding in adjacent fields during heavy rainfall events as well as permit a connection between the marshland and the sea.[2]. However, due to recent works at a boat shelter area within the harbour known as il-Menqa, this culvert has been blocked on the seaward side thereby hindering its function.

4.1.4 Step 5: Likelihood of failing GES

Since the Water Framework Directive (WFD) and Habitats Directive (HD) both aim to achieve good status in EU Member States, their objectives and measures often overlap. In fact, the 2nd WCMP states that "*where the maintenance or improvement of the status of water is an important factor in habitats and/ or species protection, these management plans have synergized water and habitat requirements by means of individual operational objectives and related measures*."

It has been agreed within the EU that for each Directive, each parameter should be assessed separately through an evaluation matrix to evaluate conservation status. The resulting assessments are then combined to give a global assessment of conservation status for the respective habitat/species/water body.

For status assessment, Article 17 of the Habitats Directive lists the parameters for species, habitats and chemicals. Similarly, Annex V 1.1.3 of the Water Framework Directive lists the biological quality elements and the supporting hydromorphological and chemical and physico-chemical quality elements for transitional water bodies. These parameters and indicators are listed in **Error! Reference source not found.**.

TABLE 29: PARAMETERS AND INDICATORS FOR STATUS ASSESSMENT

Directive	Category	Parameters and indicators
Habitats Directive	Species	1. Range 2. Population 3. Habitat for the species 4. Future prospects
	Habitats	1. Range 2. Area 3. Structure and functions 4. Future prospects
	Chemical	1. Priority list pollutants 2. Other pollutants
Water Framework Directive – transitional waters	Biology (BQEs)	1. Composition, abundance and biomass of phytoplankton 2. Composition and abundance of other aquatic flora 3. Composition and abundance of benthic invertebrate fauna 4. Composition and abundance of fish fauna
	Hydro morphology	1. Morphological conditions (depth variation; quantity, structure and substrate of the bed; and structure of the intertidal zone) 2. Tidal regime (freshwater flow and wave exposure)
	Physicochemical	1. Transparency 2. Thermal conditions 3. Oxygenation conditions 4. Salinity 5. Nutrient conditions
	Chemical	1. Priority list pollutants 2. Other pollutants
	Supporting parameters	1. Acidity (pH) 2. Dissolved sulphate (SO_4) 3. Dissolved nitrate (NO_3)

Directive	Category	Parameters and indicators
		4. Dissolved organic carbon

Due to the significant hydromorphological fluxes in water permanence observed on an annual basis at il-Ballut ta' Marsaxlokk, it is very likely that the site would fail to achieve GES during certain times of the year. The complete scarcity of water during the summer season resets the ecosystems and thus effects various biological (BQE) parameters that determine the site's GES. Whilst some aquatic species are able to withstand the dry season via several forms of drought-tolerant survival strategies, other species can only be replenished on site following significant rain downpours via: runoff dispersion, egg-laying in inundated pools and/or other forms of dispersal.

This implies that biodiversity values take time to recover and can only reach their maximum ecological continuum within the water body sparsely during short periods of the year. As pools get drier with rising air temperatures, BQE biodiversity and abundance indices are likely to reduce once again. This scenario is mostly applicable to the following BQEs: macroinvertebrates, phytoplankton and fish. These BQEs are closely interlinked to hydromorphological changes and the physico-chemical parameters governing the water pool basins. Without sufficient water and adequate abiotic/biotic conditions, the species comprising these BQEs are not able to thrive and thus fail to achieve GES.

As described in Section 3.6.1.3, the T07 project recorded a higher number of macroinvertebrate species, higher species diversity and overall abundance when compared to the macroinvertebrate results obtained from the present study. This result shows how hydromorphological changes can significantly influence and modify the fundamental indices and parameters used to assess BQEs and thus GES. In fact, the higher macroinvertebrate values observed for the T07 project may be attributed to a combination of increased rainfall and a continuous influx of seawater from il-Menqa area (given that the seawater gutter was most likely fully operational at the time).

For the T07 project, the highest diversity values were obtained in March, with September having the lowest species diversity (excluding June which could not be assessed). The composition of the observed biocenosis appears to be strongly influenced by the periodical evaporation of the area on a seasonal repeated cycle. The first assemblages emerging during the recolonisation process are highly unbalanced towards opportunistic species (e.g. chironomids, culicids) that start their reproductive cycle. For this reason, September recorded high population numbers pertaining to lower species diversities.

It is important to note that the current ecological status assessment at il-Ballut ta' Marsaxlokk was based on data on macroinvertebrate biodiversity, which ranged in status from good to moderate to bad depending on seasonality. Only macroinvertebrates were used to derive ecological status since data on other BQEs are difficult to obtain due to the seasonally-dependent occurrence (macrophytes and phytobenthos), limited available quantitative data (phytoplankton) or complete absence throughout the year (fish).

Hydromorphological changes that seek to achieve permanent water supply within the site are likely to increase the abundance and biodiversity of the macrophytes, phytoplankton and fish (BQEs) that are typical of transitional water bodies, as discussed previously for macroinvertebrates. Hydromorphological cycles of freshwater and brackish groundwater would reduce the current fluctuations in water permanence and thus enable improvements in the status of the aforementioned Biological Quality Elements. Such changes would also allow the site to achieve maximum ecological continuum through natural succession without depending on the critical recolonisation cycle of pioneering and opportunistic species. However, achievement of Good Ecological Status (GES) is still questionable noting the limitations in the morphological aspects of the site, therefore the site is still considered to be a Heavily Modified Water Body at this stage.

For example, increased water permanence would enable macrophytes such as *Ruppia maritima* to occur for a longer duration throughout the year rather than die off as a result of desiccation. This aquatic macrophyte provides ecological benefits including food and shelter for macroinvertebrates, and is also a food source for birds such as migrant and wintering waterfowl, wading birds and shorebirds.[35] Water permanence would also increase phytoplankton biodiversity and facilitate the potential introduction of the Mediterranean Killifish, *Aphanius fasciatus* which once occupied the pools before 1992 (personal communication, Nature Trust Malta 2022).

4.1.5 Step 6: Is the water body substantially changed in character due to physical alterations by human activity?

If a water body is to be provisionally identified as heavily modified the following criteria apply:

1. The failure to achieve good status results from physical alterations to the hydromorphological characteristics of a water body

As previously stated, the site is likely to fail to achieve GES due to the physical alterations of the sites' hydromorphological characteristics that do not permit it to achieve water permanence throughout the year.

2. Water body substantially changed in character

The site's hydrology and morphology have been substantially changed in character permanently through various historical physical alterations that do not allow permanence of water within the site.

3. Substantial change must be the result of the specified uses listed in Article 4(3)

Bank reinforcements/embankments, land drainage, land claim, low/reduced flows, artificial discharge regime, change in groundwater level, soil erosion/silting are some of the uses listed in Article 4(3) that

[35] Kantrud, H.A. (1991). Wigeongrass (*Ruppia Maritima* L.): A Literature Review. US Fish and Wildlife Services, Fish and Wildlife Research, 10, 58pp.

are applicable to the site in question. Additional details about these uses are provided in various sections throughout this report.

4.1.6 GEP vs GES

GEP is a less stringent objective than GES because it makes allowances or slight changes from the maximum ecological potential (MEP) for the ecological impacts resulting from those physical alterations that (i) are necessary to support a specified use or (ii) must be maintained to avoid adverse effects on the wider environment. The MEP is the state where the biological status reflects, as far as possible, that of the closest comparable surface water body taking into account the modified characteristics of the water body[36].

In the case of il-Ballut ta' Marsaxlokk, the achievement of GES is questionable when noting the limitation in the morphological and hydrological aspects of the site. It is necessary to consider GEP until further hydrological improvements are carried out successfully. Various recommendations are being proposed to achieve water permanence within the marshland's pool basins which should improve the status of various BQEs and eventually achieve GEP.

4.2 HYDROMORPHOLOGY

The present assessment of the hydrological regime at il-Ballut ta' Marsaxlokk elucidates dynamic hydromorphological conditions operating within the salt marsh and their role as elements in supporting the Biological Quality Elements. The salt marsh is recharged by precipitation as well as through surface run-off conveyed through a deep trench. Run-off is generated by the catchment of il-Ballut ta' Marsaxlokk and the road leading to the Delimara Power Station with the former source having a greater contribution to the latter.

Occasional input from the sea under certain weather conditions as well as evaporation effects both contribute to increased salinity levels within the pools. Such inputs are a result of naturally operating process, although careful anthropogenic intervention may contribute to restoring the salt marsh in achieving Favourable Conservation Status and Good Ecological Potential of the aquatic ecosystems. As described in detail in Section 4.4, increased salinity levels within the pools affect the inhabiting insect community since these individuals tend to leave the pools when the dry season approaches. Reducing the salinity levels would increase the richness and complexity of the aquatic faunal community. Moreover, although the Mediterranean Killifish *Aphanius fasciatus* can tolerate hypersaline conditions, its potential introduction in moderately saline water i.e. brackish water may be more beneficial since it would favour a wider range of faunal species. As described in Section 5, the volume of water within the ponds may be increased by deepening the pools through dredging so as to promote water permanence in the pools. This would permit direct water recharge from the underlying mean sea water aquifer (which is partially saline) or quaternary layer aquifer. As previously stated, a permanent water supply within the pools may improve the aquatic ecology from the status quo, positively impacting the inhabiting BQEs.

---

[36] Common Implementation Strategy for the Water Framework Directive (2000/60/EC): Guidance Document No 4 - Identification and Designation of Heavily Modified and Artificial Water Bodies. Luxembourg: Office for Official Publications of the European Communities.

The results of the present study also confirm that groundwater is present within Quaternary deposits, however since the water table is near sea level it has no contribution in recharging the salt marsh. The most important result of the ground investigation was that the Quaternary deposits consisting of valley fill and slope scree host a porous and permeable aquifer but which was restricted to the lower reaches of il-Ballut ta' Marsaxlokk.

Under the local climatic regime of a long dry summer and a short, wet season with frequent heavy showers soils are usually easily eroded. However, this has been prevented by terracing. In fact, over the years, in order to preserve this scanty soil resource, the local farmer has actually remodelled the land surface especially the hill slopes by terracing and building of rubble walls to protect the soil from the agents of erosion. The only areas which have escaped profound human intervention are the nearly level areas of deep soil in the erosional and structural valleys as well as the hard limestone plateau where the principal human intervention was the construction of rubble walls. However, even here man has re-sculptured the land surface. In these areas the soil was carefully removed and the irregular, usually sloping rock outcrop was hewn and levelled.

Soil material was carefully and regularly spread over the entire surface. The excess material was usually disposed of by building rubble walls which act as wind breakers as well as prevented run-off water from eroding the soil.

Such terracing has been even more drastic in the Globigerina areas as the limestone is very soft and hence man could cut even deeper thus giving rise to terraces separated by a depth interval which could be a metre or two. In these circumstances the scarce soil material has been supplemented by fine rock fragments and rock flour produced during terracing of the hill slopes as well as during the excavation of water reservoirs and building stone quarrying. The catchment of Il-Ballut ta' Marsaxlokk is characterised by high terraces suggesting a thick soil layer.

4.3 GLOBAL WARMING – RISE IN SEA LEVEL

According the tide level chart downloaded from COPERNICUS (Figure 147) sea level is steadily rising at the rate of 2.7mm/year. Projections for the future produce a much higher sea level rise depending on emissions and global warming.

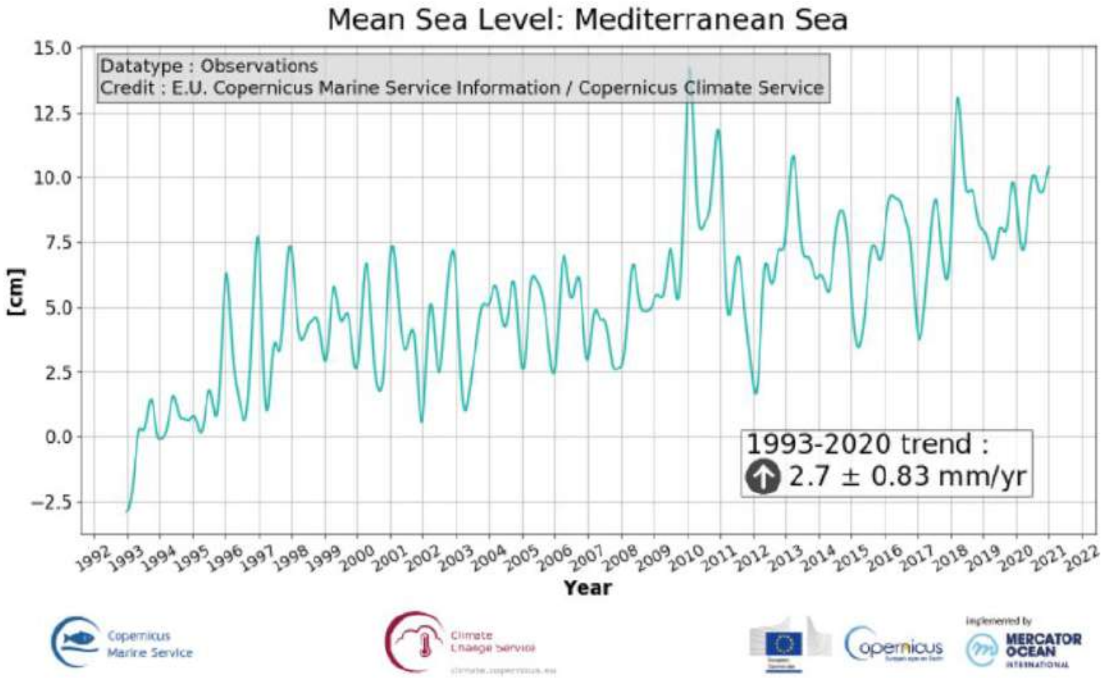


FIGURE 147: TIME SERIES OF MEAN SEA LEVEL TRENDS OVER MEDITERRANEAN SEA BETWEEN 1993 AND 2021[37]

Since 1901, Global Mean Sea Level (GMSL) has risen by 0.20 [0.15–0.25] m, and the rate of rise is accelerating.[38,39] There will be continued rise in GMSL through the 21st century under all assessed SSPs (virtually certain).[45]

GMSL rise through the middle of the 21st century exhibits limited dependence on emissions scenario; 30 between 1995–2014 and 2050, GMSL is likely to rise by 0.15–0.23 m under SSP1-1.9 and 0.20–0.30 m 31 under SSP5-8.5. [40,45]

Beyond 2050, GMSL and RSL 32 projections are increasingly sensitive to the differences among emission scenarios. Considering only 33 processes in which there is at least medium confidence (thermal expansion, land water storage, land ice 34 surface mass balance, and some ice sheet dynamic

---

[37] Copernicus (2021). Mediterranean Sea Mean Sea Level time series and trend from Observations Reprocessing. doi: https://doi.org/10.48670/moi-00264

[38] Fox-Kemper, B., Hewitt, H., Xiao, C., & Al, E. (2021). Ocean, cryosphere, and sea-level change. In *Climate change 2021: The physical science basis*

[39] Gulev, S. K., Thorne, P. W., Ahn, J., Dentener, F. J., Domingues, C. M., Gerland, S., Gong, D., Kaufman, D. S., Nnamchi, H. C., Quaas, J., Rivera, J. A., Sathyendranath, S., Smith, S. L., Trewin, B., von Shuckmann, K., and Vose, R. S.: Changing State of the Climate System, in: Climate Change 2021: The Physical Science Basis. Contribution of Working Group I to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change, edited by: Masson-Delmotte, V., Zhai, P., Pirani, A., Connors, S. L., Péan, C., Berger, S., Caud, N., Chen, Y., Goldfarb, L., Gomis, M. I., Huang, M., Leitzell, K., Lonnoy, E., Matthews, J. B. R., Maycock, T. K., Waterfield, T., Yelekçi, O., Yu, R., and Zhou, B., Cambridge University Press, https://www.ipcc.ch/report/ar6/wg1/downloads/ report/IPCC_AR6_WGI_Chapter_02.pdf

[40] IPPC (2021). The Working Group I (WGI) contribution to the Intergovernmental Panel on Climate Change (IPCC) Sixth Assessment Report (AR6). Technical Summary.

processes), GMSL between 1995–2014 and 2100 is likely to rise by 0.28–0.55 m under SSP1-1.9, 0.33–0.61 m under SSP1-2.6, 0.44–0.76 m under SSP2-4.5, 0.55–36 0.90 m under SSP3-7.0, and 0.63–1.02 m under SSP5-8.5. Under high-emission scenarios, ice37 sheet processes in which there is low confidence and deep uncertainty might contribute more than one 38 additional metres to GMSL rise by 2100. [47,45]

4.4 ECOLOGY

The biocenosis of the pools is highly influenced by periodic evaporation. The macroinvertebrates recorded from the pools such as the predominant members of Chironomidae and Culicidae are dependent on the presence of water primarily during the larval stages of their life cycle. Intra-annual hydrological variability influences nutrient concentration, species composition and competitive interactions. In fact, through this study it has been observed that as the pond salinity level starts to increase through water evaporation, the insect community is likely to leave the pools, which can be transiently colonised by some r-selected species (e.g. nematodes) before drying up. The recolonisation process seems to begin at the end of the dry season, when freshwater from precipitation and land drainage starts to accumulate in the pools.

A study carried out by Gascon, Boix, Sala and Quintana (2008)[41] studied the relationship between macroinvertebrate life strategies and habitat traits in Emporda' wetlands (NE Iberian Peninsula). The aforementioned authors state that macroinvertebrate community composition and structure are significantly affected by hydroperiod length. They also state that macroinvertebrates community dynamics are more likely to be influenced by pond type (classified according to water permanence) characteristics rather than intra- and inter-annual hydrological variability. This implies that the benthic species composition is likely to be different in permanent ponds when compared to temporary ones. Furthermore, the study reports that most of the species analysed belong to functional response groups which are tolerant to drought effects and respond similarly to water fluctuations. Such organisms typically adopt life cycle strategies that seek active dispersion and need water for reproduction. Species which however are not very tolerant to desiccation survival, showed a wider spectrum of responses to water permanence and are thus more likely to accommodate permanent ponds. Wiggins *et al*. (1980)[42] argue that in permanent ponds, one would expect to find species community from all functional response groups (both desiccation tolerant and intolerant), but in the Emporda' study the authors observed significant differences in the dominant taxa present in permanent pools.

Waterkeyn, Vanshoenwinkel, Grillas and Brendonck (2010)[43], studied the effects of salinity on seasonal community patterns of crustaceans living in temporary pools in the Camargue, France. Their study shows how crustacean communities hatching from a resting bank exposed to different salinity

---

[41] Gascón, S., Boix, D., Sala, J., Quintana, X.D. (2007). Relation between macroinvertebrate life strategies and habitat traits in Mediterranean salt marsh ponds (Empordà wetlands, NE Iberian Peninsula). In: Oertli, B., Céréghino, R., Biggs, J., Declerck, S., Hull, A., Miracle, M.R. (eds) Pond Conservation in Europe. Developments in Hydrobiology 210, vol 210. Springer, Dordrecht. https://doi.org/10.1007/978-90-481-9088-1_7

[42] Wiggins, G. B., R. J. Macklay & I. M. Smith, 1980. Evolutionary and ecological strategies of animals in annual temporary pools. Archiv fu¨r Hydrobiologie supplement 58: 97–206.

[43] Waterkeyn, A., Vanschoenwinkel, B., Grillas, P. & Brendonck, L. (2010). Effect of salinity on seasonal community patterns of Mediterranean temporary wetland crustaceans: a mesocosm study. DOI: 10.4319/lo.2010.55.4.1712.

treatments for 7 months had a significant effect on the establishment of large branchipods and copepods. Increasing salinity led to the absence of large branchipods at the highest salinity levels, thus giving rise to increased species richness and densities of the less dominant cladocerans. This implies that pools that undergo fluctuations in hydroperiod (caused by inappropriate water management, aridification etc.) could be exposed to similar salinisation effects, which are also termed as secondary salinisation effects. The study also shows how crustacean succession was significantly altered by increasing salinity, as salinity slows down development rates, population growth and maturation rates of some crustaceans and invertebrate communities.

Overall, the most frequently occurring and abundant species at the marshland are tolerant to a number of environmental factors such as drought, low levels of dissolved oxygen, poor water quality conditions and can thrive in varying aquatic environments in terms of salinity. Therefore, restoration interventions that seek to improve the hydromorphological characteristics of the site, are expected to give rise to minimal effects on the aquatic macroinvertebrate ecology of the pools, especially at the trial stages. Any intentional hydromorphological changes should be focused to create the right conditions for higher ecological succession of the marshland community system, thus leading to the reintroduction of species which are currently absent from the site.

Ivajnšič, Šajna & Kaligarič (2016)[44], studied primary succession on re-created coastal wetlands to assess the success of coastal halophyte vegetation restoration. They state that successful restoration of plant communities in marshland habitats depends on the availability of target species and suitable abiotic conditions, with emphasis being made on the tide regime and salinity levels. The establishment rate is also dependent on the presence of seeds, or a seed bank at the site, or on seed dispersal to the site. Interestingly, the authors of said study also state that the spatial distribution of salt marsh vegetation (including Habitat 1420 which is present at il-Ballut) is organised in characteristic patches, following the zonation of plant communities. In most cases, the zonation pattern seems to be dependent on the micro-elevation about the relative sea level of the marsh, which induces a certain inundation and salinity gradient. Artificial mudflats created from material dredged from the same marshland gave rise to significant increases in species cover over a 6-year natural succession period. This period was initially characterised by primary succession, and eventually shifted to higher forms of succession.

Another study conducted by El-Sheikh *et al.* (2012)[45] shows how ecological succession of vegetation took place at Lake Burullus following the deposition of dredged material. Over a ten-year period, the number of vegetation species increased to 41 and communities which are comparable to marshland habitats, including *Arthrocnemum macrostachyum* and *Limbarda crithmoides* started to dominate the site, signifying the tendency to establish climax vegetation of Mediterranean coastal areas. The most

[44] Ivajnšič, D., Šajna,N. & Kaligarič, M. (2016). Primary succession on re-created coastal wetland leads to successful restoration of coastal halophyte vegetation, Landscape and Urban Planning, Volume 150. Pages 79-86, https://doi.org/10.1016/j.landurbplan.2016.03.005.

[45] El-Sheikh M.A., Al-Sodany Y.M., Eid, E.M. & Shaltout, K.H. 2012. Ten years primary succession on a newly created landfill at a lagoon of the Mediterranean Sea (Lake Burullus RAMSAR Site). Retrieved from: http://damanhour.edu.eg/pdf/researches/1-s2.0-S0367253012000515-main.pdf

notable edaphic variables that affected succession of such vegetation groups included soil moisture level, salinity, organic matter, minerals, soil texture and anthropogenic disturbance.

Owing to the nature of the salt marsh, the vegetation constituting the three main habitats (Habitat 1420, Habitat 1410 and Habitat 1310) of the salt marsh at il-Ballut possess some degree of salt tolerance. Of these three habitats, *Salicornia ramosissima* (Habitat 1310) has the greatest exposure to high salinities since its roots are often immersed in the pools, apart from occupying the banks of the pools. Any hydromorphological interventions must take into account the salinity requirements of the vegetation habitats, especially that of *Salicornia* habitat due to its direct interaction with water and its limited coverage within the salt marsh. Despite its halophytic nature, salinity negatively impacts seed germination and stimulates dormancy in seeds of species such as *S. ramosissima*.[46] Moreover, the available literature suggests that optimum growth of *S. ramosissima* is supported by lower salinities and negatively impacted by moderate and high salinities.[47]

The soft sediment composition of the benthic layer of the pools as well as the physico-chemical characteristics of the aquatic environment limits the biodiversity potential of aquatic macrophytes to opportunistic green algal and yellow-green algal species. When the pools contain water, they are inhabited by *Ruppia maritima* which perishes when the pools gradually become desiccated. This plant species is supported by brackish water environments with salinities ranging between 12 PSU and 27 PSU depending on the life stage of the plant.[48]

The Mediterranean Killifish, *Aphanius fasciatus* originally occupied the pools of il-Ballut ta' Marsaxlokk before the 1992 (Nature Trust Malta, personal communication 2022). Prior to the 1980s, the connection between the salt marsh and the sea was not restricted, enabling proper flushing of the salt marsh which may have contributed to the previously stable Killifish population. However, with the construction of the sand embankment in the 1980s and the overall degrading state of the habitat, Killifish numbers began to dwindle. This species is legally protected since it is listed in Appendices II and III of the Bern Convention (Convention on the Conservation of European Wildlife and Natural Habitats), and in Annex II of the Habitats Directive (92/43/EEC). Locally, the only truly brackish water fish.[49] In the 1990s, efforts to prevent the loss of this species involved removing some individuals to undergo breeding programs and then transferring of individuals to il-Maghluq ta Marsascala and is-Salini. Eventually, the unfavourable conditions at il-Ballut ta' Marsaxlokk rendered the loss of the population of the Killifish from this site (Nature Trust Malta, personal communication 2021).

---

[46] Polo, A., Fragoso, A., Infante-Izquierdo, M. D., Nieva, F. J. J., Muñoz-Rodríguez, A. F. & Castillo, J. M. (2021). *Seed bank dynamics of the annual halophyte Salicornia ramosissima: towards a sustainable exploitation of its wild populations. Plant Ecology*, 222, 647–657. doi:10.1007/s11258-021-01134-4

[47] Silva, H., Caldeira, G. & Freitas, H. (2007). *Salicornia ramosissima* population dynamics and tolerance of salinity. Ecological Research, 22(1), pp. 125–134. doi:10.1007/s11284-006-0008-x

[48] Mayer, F. L. Jr. & Low, J. B. (1970). The Effect of Salinity on Widgeongrass. The Journal of Wildlife Management, 34(3), pp. 658-661.

[49] Environment and Resources Authority (2019). BIOSNIPPET ISSUE 31. *Aphanius fasciatus*. https://era.org.mt/wp-content/uploads/2019/09/BioSnippet_31-Mediterranean_Killifish.pdf

According to literature published prior to 2002, *A. fasciatus* was recorded in Kalafrana, St. Georges Bay (Birzebbuga), Marsaxlokk, Marsascala, Marsa, Salina, Simar, and Ghadira, all on the island of Malta, and from il-Qawra on the island of Gozo. However, in 2002, the fish species was recorded from only four localities, these being, Marsa, Salina, Simar, and Ghadira. At present, populations of *A. fasciatus* are found naturally at is-Salini and il-Maghluq ta Marsascala, Għadira and is-Simar. The population in Marsa is extinct.[50,51]

As a euryhaline species, *A. fasciatus* is able to tolerate a wide range of salinity, from hyposaline to hypersaline conditions. In addition, the species is tolerable to wide variations in oxygen levels, being able to survive in hypoxic conditions. Such abiotic conditions are typical of coastal marshland habitats. The four local populations (is-Salini, il-Maghluq ta' Marsascala, Għadira and is-Simar) of the Killifish are considered to be hydrologically isolated which consequently limits gene flow between such populations and hence restricts genetic variation.

In 2015, the 'Mediterranean Killifish Conservation Project' led by Nature Trust Malta and the Malta Aquaculture Research Centre was established to conserve this fish species within the Maltese Islands, efforts of which are still ongoing at present. One of the aims of this project is to translocate individuals of the Killifish population from il-Maghluq ta' Marsascala to il-Ballut ta' Marsaxlokk once the former population becomes sufficiently conserved.[51]

More than half the population at il-Maghluq ta' Marsascala comprises female individuals. Despite the potential for high reproductive effort, the number of individuals constituting the population at this site is relatively low. This finding is ascribed to low survival rates of juveniles. Moreover, the overall population is considered to be small due to a number of impacting abiotic factors. These include stress-induced mortality by wide fluctuations in dissolved oxygen and water temperature, freshwater run-off altering the salinity, seasonal depth variation, presence of waterfowl, and anthropogenic impacts such as engineering works, nutrient loading from fertiliser and pesticide run-off and dumping of waste. Killifish individuals were concentrated within the innermost sections of the water body away from the seaward side. This restricted distribution was due to the presence of the predatory striped mullet, *Mugil cephalus* as well as waterfowl at the seaward end. The innermost section of the water body supported the Killifish population due to favourable conditions for reproduction and feeding.[52] As part of its omnivorous diet, *A. fasciatus* feeds on crustaceans, bivalves, eggs of invertebrates, adult and larval mosquitoes as well as diatoms.[53]

[50] Deidun, A., Arcidiacono, I., Tigano, C., & Schembri, P. J. (2002). Present distribution of the threatened Killifish *Aphanius fasciatus*. (Actinopterygii, Cyprinodontidae) in the Maltese Islands. The Central Mediterranean Naturalist, 3(4), 177-180.

[51] Nature Trust Malta & Malta Aquaculture Research Centre (2015). Mediterranean Killifish Conservation Project - Malta

[52] Mangion, M. Z., Deidun, A. & Vassallo Agius, R. (2011). Management of threatened *Aphanius fasciatus* at Il-Maghluq, Malta. Proceedings of the Tenth International Conference on the Mediterranean Coastal Environment, MEDCOAST 11, E. Özhan (Editor), 25-29 October 2011, Rhodes, Greece.

[53] Leonardos, I. (2008). The feeding ecology of *Aphanius fasciatus* (Valenciennes, 1821) in the lagoonal system of Messolongi (western Greece). Scientia Marina, 72(2). https://doi.org/10.3989/scimar.2008.72n2393

The population dynamics of Killifish inhabiting il-Maghluq ta' Marsascala can be used as a reference study for the potential introduction of this species at il-Ballut ta' Marsaxlokk. Measures to be implemented to improve the hydrological sustainability of il-Ballut should be able to alleviate stress-induced mortality factors namely, fluctuations in physico-chemicals and depth, predation and anthropogenic impacts, which are currently impacting Killifish populations at il-Maghluq ta' Marsascala. This would provide favourable conditions for survival and increase the success rate of reintroduction at il-Ballut ta’ Marsaxlokk.

5 RECOMMENDATIONS

A number of recommendations are being proposed to improve the hydrological conditions that govern the ecological dynamics of the site. Most of these measures seek to increase the water permanence within the site to obtain higher species abundance and richness. The measures also aim to develop the ecological status of the site's habitats and species thus improving the site's biodiversity components and biological quality elements (BQEs).

The table hereunder lists all of the proposed recommendations and also discusses the linkages between hydromorphological conditions and the biological quality elements (BQEs). These improvements would allow the site to achieve ecological continuum through natural succession without depending on the critical recolonisation cycle of pioneering and opportunistic species. Due to the severe limitations in the morphological aspects of the site, the achievement of GES at il-Ballut ta' Masaxlokk is questionable and thus the site is still considered to be a Heavily Modified Water Body. Therefore, the measures seek to achieve GEP until further improvements are carried out successfully at the site.

The ERA may potentially allocate €315,000 for the implementation of restoration measures to emanate from this study. All measures proposed have been developed to minimise disruption or adverse modifications of the existing ecology of the salt marsh at il-Ballut ta' Marsaxlokk.

All of the proposed restoration options should be discussed with the relevant stakeholders to ensure that they are involved in the identification and improvement of potential management actions, so that the site's best interests may be safeguarded.

Proposed Measure	Description	Predicted Outcome	Effect on BQEs & Site	Interested parties	Estimated Cost	Scenario
Additional protection of the marshland from erosion effects	Various measures have already been carried out in the area to reduce the sea erosion effects from the south-eastern and southern borders of the marshland's coastline. Most of these measures have served to extend the lifetime of the species and habitats present on site. Additional coastal sea defence systems such as groynes, sea walls, revetments, breakwater and/or gabions specifically designed to eliminate completely the erosion effects from this area should be considered and studied in further detail. Given the shallowness of the sea in the area, such sea defences could be supported further by reengineering works of the coastline and beach via land reclamation works, thus allowing: • Expansion of the site footprint with improved seawater input (discussed in the following recommendations) • Restoration of marshland habitat areas that have been lost historically • Additional design flexibility in curbing sea erosion effects in the area The material used for such effects may be sourced from dredging works of the marshland's pools, proposed in another measure hereunder, and from third party sources, potentially even inert debris from construction sites. In fact, the existing pools comprise of significant debris layers from previous land reclamation works carried out at DPS.	Past interventions to limit coastal erosion effects on the site (artificial embankment & recent deposition of material on the beach) appear to have caused a reduction in the direct seawater flow to the site. This was also influenced by the apparent blockage of the sea water culvert that previously provided a direct influx of seawater into the site. These effects have led to decreased pool water permanence rates especially since the islands are becoming increasingly xeric and with rainfall events not generating considerable runoff volumes. The reduction in seawater input also contributed towards reduced pool salinity levels during the winter season. Aquatic macroinvertebrates have become increasingly accustomed to less haline conditions at il-Ballut, although it must be acknowledged that most species have a relatively wide halophilic tolerance limit which may not have been exceed during recent intra-annual salinity variations. Through additional sea defence systems planned by Infrastructure Malta, as well as future plans to render the locality of Marsaxlokk "Tsunami Ready"[54], one expects that sea erosion effects on the marshland may be almost completely phased out. Accompanying seaward land reclamation works, could permit careful designs and consideration for seawater input flow into the marshland without causing significant erosion effects on the new artificial coastline. This would allow for the creation of a meandering transitional ecosystem with varying abiotic and biotic conditions, thus increasing the site's species richness and biodiversity whilst inducing ecological succession.	Current assessments state that coastal erosion is affecting the size of the water body. Improved protection from erosion effects will safeguard the water body and provide room for habitat expansion. This recommendation is likely to maintain invertebrate BQE status during the winter season and potentially improve its status in the long term. Improving seawater input into the site may reduce desiccation periods and thus obtain more biodiverse habitats. This may eventually lead to the improvement of the current invertebrate BQE status during the summer season. Other BQEs which are currently being assessed as part of NP02/2021 are also likely to slightly improve or maintain their status over time with the implementation of such a recommendation.	Nature Trust Malta, ERA, Infrastructure Malta, Marsaxlokk Local Council.	TBD	High Priority This measure provides long-term protection and improvement of the site's ecological potential, paving way for the reintroduction of lost habitats, increased biodiversity and improved/ maintained BQE status. This measure may be difficult to implement without an effective strategy, vision, monitoring and adequate funding.

[54] https://timesofmalta.com/articles/view/malta-told-prepare-tsunami-years.964979

Proposed Measure	Description	Predicted Outcome	Effect on BQEs & Site	Interested parties	Estimated Cost	Scenario
Increasing water permanence of pools through dredging	Since the salt marsh is very close to the water table it is recommended to deepen pool No.1 and use its current layout as a trial pit to attempt the retention of some water (brackish) even during the Summer months. This trial pit can also serve to assess siltation/sedimentation rates as a factor which is directly dependent on rainfall runoff. If the trial study is successful, increasing the depth of all the marshland's ponds by at least 30cm would permit direct water recharge from the underlying mean sea water aquifer or quaternary layer aquifer. This implies that the permanence of water in such pools would be increased, potentially lasting through the summer season. The pool interconnecting channels should also be dredged to increase the connectivity between the pools and the species present in such ecosystems. Given that silting and sedimentation are likely to occur within the dredged pool basin over time, the proposed dredging activities may need to be carried out every few years to preserve the pre-established basin depths and maintain a continuous supply of water from the underlying aquifer. The installation of monitoring silt-traps would provide a better understanding of the siltation rates and effects occurring within the site, and thus predict when dredging works may be required in the future. Such investigations may also reveal that additional measures may be necessary to slow down the rate of runoff siltation. A detailed description on this action is provided in Section 5.1 Since dredging of the pools on a regular basis is not highly recommended, it may be necessary to install even larger silt trapping systems that	Increased water permanence is likely to give rise to increased biodiversity and ecological succession of the pools within a number of years (est. 5-10 years). This is considered to be a drastic but welcomed change to improve the current ecological dynamics and potential of the site. Most species at il-Ballut have grown accustomed to a prolonged period of drought and have adopted various survival strategies including spore dispersal, diapause and aestivation behaviour as well as water induced reproduction/ revival. Through increased water permanence, such species may still thrive but may be outcompeted by other less drought tolerant species. Employing a mixture of differing pool conditions should help to significantly increase the site's richness and complexity and thus improve the monitoring status of various BQEs, which cannot be assessed throughout the year due to desiccation. Careful reintroduction of certain ecologically important species into marshland aquatic habitats may accelerate this process even further.	Invertebrates BQE is expected to improve significantly during the summer season as water permanence is increased. This would allow such lifeforms to extend their lifecycle, contributing towards increased biodiversity and formulating new interspecific relationships to be established between such organisms. This action is also expected to positively influence the status of other BQEs at il-Ballut ta' Marsaxlokk (phytobenthos, phytoplankton, macrophytes, fish). Reduced desiccation periods are also expected to improve the status of macrophytes such as *Salicornia* which tend to dry up and shrivel very quickly during the summer period. It also allows for the potential reintroduction of brackish water tolerant fish such as *A.fasciatus* (fish BQE). This would allow the site to achieve its maximum ecological potential for a currently non-existent BQE.	Nature Trust Malta, Birdlife Malta, ERA.	€5,000.00	High priority Trial pit is a high priority action Short to medium term results are expected. Action is moderately difficulty to implement if permanence of pools is desired. Measure requires regular follow ups and monitoring by site manager to assess water levels, siltation rates and physico-chemical parameters.

PROPOSED MEASURE	DESCRIPTION	PREDICTED OUTCOME	EFFECT ON BQES & SITE	INTERESTED PARTIES	ESTIMATED COST	SCENARIO
	would enable the trapping of larger volumes of silt and sediment and thus preserve the topography of the existing pool basins. Such traps would have to be inspected by NTM officers on a regular basis to ensure that no organisms are trapped within them. Furthermore, these silt traps would need to be cleaned on a regular basis to ensure they remain effective in trapping sediment, particularly during the rainy season.					
Increased water permanence through seawater inputs	Increasing the water permanence of pools (especially during the drought season) may also be possible through two management options. Direct management interventions (Option A) involve the pumping of seawater into the pools on a pre-determined schedule or whenever required to maintain physico-chemical parameters. The measure involves the mobilisation of pumps and flexible pipes/hoses that would be used by the site manager or contractor to pump water directly from the adjacent sea and into the pools of the marshland. Indirect management interventions involve seawater influx to the marshland from an underground pipework system. The status of the existing pipework infrastructure at il-Menqa area is unknown due to recent works carried out in the area. Re-establishment of this pipework connection is not recommended as il-Menqa area is exposed to high pollution risks from maritime vessels and experiences an overall lack of water circulation/flow. New alternative seawater connections may be considered at the southern section of the marshland (most exposed areas - Option B). The location of new connection points may overlap with the area proposed for revetment	A sea pipe connection and/or the direct pumping of seawater into the marshland would recreate the now seemingly diminished volume of seawater flow into the marshland. As stated in the earlier sections of the report, the macroinvertebrate species which were present at il-Ballut in March 2022 tolerated salinity levels of 50 psu. Thus, the influx of seawater with a salinity of around 38psu, is likely to cause a reduction in pool salinity levels during this time of the year. Through evaporation effects, the salinity levels are expected to increase yet again during the following drought season. Depending on the ecological communities that are likely to form, it may be possible to pump additional seawater in the subsequent summer months to regulate water permanence rates and salinity levels. Nevertheless, other saline marshlands located in the Maltese islands have recorded salinity values which are higher than 100psu, thus implying that local ecosystems can withstand and adapt to hyperhaline conditions. Assuming that this measure will be done in parallel with the dredging of the pool basins, the continuous supply of water from the mean sea level aquifer not only increases water permanence, but also reduces the salinity levels during the 'drought' periods when compared to the status quo. Therefore, when dredging is done in parallel with the influx of seawater either from pumping or via permanent connections to the sea, one should not expect a significant fluctuation in salinity levels.	Despite introducing an influx of water with a higher salinity content when compared to the previous action, the results have shown that the species present on site are tolerant to a wide spectrum of salinity ranges. Thus, for Option A the BQE statuses are expected to achieve similar results to those discussed in the action above. For Option B, the outcome on BQE status is more difficult to predict as the result is dependent on the design of the culvert and the ease in overcoming the gravitational forces to maintain increased water permanence rates in all of the pool basins. If the system proves to be effective, one would expect an overall improvement in the status of all BQEs.	Nature Trust Malta, ERA, Birdlife Malta.	€ 5,000.00 p.a (Option A) TBD (Option B)	Moderate priority (Option A) Direct pumping of seawater provides a short term, quick and direct management interventions to rectify any hydrological issues or concerns encountered on site. This action is labour intensive and requires regular monitoring by site manager. Low priority (Option B) The setting up of a permanent seawater culvert is costly to implement and maintain, complicated to design, and does not necessarily obtain the required results to improve the status of the site and its BQEs.

PROPOSED MEASURE	DESCRIPTION	PREDICTED OUTCOME	EFFECT ON BQES & SITE	INTERESTED PARTIES	ESTIMATED COST	SCENARIO
	works proposed by IM. However, the installation of a sea pipe connection to maintain water permanence within the marshland is not the preferred option as one would need to ensure that the seawater flow is possible against gravity and maintained upstream in topographically elevated areas. A sea pipe connection would also require regular maintenance to prevent blockage of debris/waste and biofouling.					
Cleaning of northern deep trench	The deep trench located north of the saltmarsh should be regularly cleaned and dredged to lower it at least to the same level as the marshland. This would promote the conveyance of surface run-off originating from the two 80cm drainage pipes that feed the marshland. Deeper dredging of the trench may be considered to provide a suitable habitat for the reintroduction of *A.fasciatus*. Further details and cross-sections are provided in Section 5.2. The excavation of 1.2m from the existing level should provide around 1.0m of bathymetric depth for the freshwater species to thrive. This would result in an approximate water volume of $80m^3$.	This action seeks to increase the pools' water permanence rates whilst maintaining the current abiotic and biotic conditions of the site. This very subtle measure is not expected to lead to drastic changes to the current structure and function of the ecosystem, as the pools would still be expected to dry up during the drought season.	No significant change to BQE status is envisaged. This is an important measure to maintain status of BQE and to ensure it does not deteriorate in the future due to unforeseen blockages of rainwater runoff.	Nature Trust Malta, ERA, third party land owner.	€5,000.00 p.a	<u>High priority</u> Short-medium term action and fairly easy to implement to safeguard the main source of water flow into the site. Measure requires follow-up clean-ups and maintenance.
Redirection of surface runoff	Surface run-off originating from Triq Power House which naturally flows down Triq il- Wilġa may be redirected to the salt marsh through a series of culvert modifications. Power house has a runoff coefficient of over 90%, which could be used to replenish the saltmarsh if runoff is managed properly and diverted to the site. Presently a substantial fraction of the runoff generated is lost to the sea.	This action seeks to increase the pools' water permanence rates whilst maintaining the current abiotic and biotic conditions of the site. This very subtle measure is not expected to lead to drastic changes to the current structure and function of the ecosystem, as the pools would still be expected to dry up during the drought season, unless done in parallel with the dredging of the pool basins.	Current invertebrate BQE status during the winter season is likely to be maintained for a longer period. If done in parallel with other actions, it may be possible to significantly improve the invertebrate BQE status during the drought season and thus achieve improved biodiversity and higher ecological succession. This may even positively impact other BQEs	Nature Trust Malta, ERA, Marsaxlokk local council, Infrastructure Malta/Transport Malta.	TBD	<u>Medium priority</u> Short-medium term measure with long lasting effects to improve water recharge rates without considerably changing the dynamics of the marshland. If done in parallel with other actions that seek to increase water permanence, the

PROPOSED MEASURE	DESCRIPTION	PREDICTED OUTCOME	EFFECT ON BQES & SITE	INTERESTED PARTIES	ESTIMATED COST	SCENARIO
	This can be done either by directing the run-off to the deep trench which naturally conveys the run-off to the salt marsh. Alternatively, surface-run off can be directed from Triq il-Wilġa directly to the salt marsh between the agricultural fields located immediately north of the salt marsh. Road works may be necessary to accommodate this action. Further discussions with interested parties (see respective column) are necessary to design and develop this action further. The installation of oil/water interceptors are strongly recommended to limit pollution risks.		which are currently not assessed at the site in question.			marshlands are likely to flood more frequently.
Raised platform to circumvent vegetation trampling impacts	Nature Trust Malta intends to construct a raised platform to act as a footpath around the site. This platform would facilitate access to certain areas without causing significant vegetation trampling effects. Studies should be carried out to identify the most suitable routes to meet the site manager's accessibility requirements. Care should be taken to ensure that the raised platform does not impede in any way the growth and the health status of the underlying assemblages. Shadowing effects should be given particular emphasis as most of the species on site are not currently subjected to prolonged shadowing.	If carefully designed and effectively monitored, this simple measure is likely to aid the future prospects of the site and the spread of protected species and growth of Annex I habitats in currently degraded areas.	Invertebrate biodiversity within pool basins may increase slightly as trampling impacts become less frequent with the implementation of this action. Nevertheless, the status of the invertebrate BQE is unlikely to be significantly affected. This action is also expected to have positive results on other BQEs. The range, habitat extent and future prospects of Annex I habitats, especially Habitat 1310 and 1420 are also likely to improve, as trampling effects become scarcer.	Nature Trust Malta, ERA, Birdlife Malta, Marsaxlokk local council	€ 20,000.00 approx. depending on extent of area	<u>High priority</u> Long lasting improvements to increase habitat expansion potential.
Reintroduction of vegetation assemblages	There is potential to re introduce certain plant species such as *Phragmites australis*, *Carex extensa*, *Vitex agnus-castus, Limonium virgatum, Pancratium maritimum, Cakile maritima*, *Ruppia cirrhosa, Juncus* spp. and *Salicornia* spp. which previously occupied and now are extinct from the area or which currently have a very limited distribution on site.	The reintroduction of such species helps to accelerate the ecological succession and habitat expansion of the site that is predicted to occur via the implementation of some of the proposed measures. Significant efforts should be made to expand the range of Habitat 1310 which is locally extremely scarce. Through the amalgamation and combination of the proposed measures, it may also be possible to reintroduce such species and habitats in the areas earmarked for extension of the site (refer to Figure 152). This does not only include the agricultural land	This measure seeks to increase the site's macrophyte biodiversity, rendering it more congruent with the typical ecological characteristics of local marshland sites. This measure may help to obtain a good status for the Macrophyte BQEs, whose status is currently undetermined. Additionally, the habitat range and	Nature Trust Malta, ERA	€ 10,000.00 approx. depending on extent of area	<u>High priority</u> Medium to long term with significant improvement in characteristic habitat and species ranges. This action is important to combat the habitat losses that have occurred historically at the

PROPOSED MEASURE	DESCRIPTION	PREDICTED OUTCOME	EFFECT ON BQES & SITE	INTERESTED PARTIES	ESTIMATED COST	SCENARIO
	Following several cultivation attempts made by the site manager and other eNGOs, it appears that the reintroduction potential of such species may be possible at il-Ballut ta' Marsaxlokk to a certain extent.	earmarked for such expansion in the site's Management Plan but may also potentially include future seaward reclamation works.	future prospects of various Annex I habitats, particularly Habitat 1310, may be improved.			marshland through sea erosion effects.
Reintroduction of *Aphanius fasciatus* communities and macroinvertebrates	One may consider the reintroduction of killifish and other macroinvertebrate species which are typical of brackish marshlands in the Maltese islands. The introduction of such a species is dependent on the implementation of other measures proposed in this list, particularly dredging of the pool basins, increased water permanence and pool connectivity. Bathymetric maps of similar marshlands in Malta show that the species can live in relatively shallow areas less than 1.0m deep. Through re-engineering works it may be possible to dredge deeper and wider in some of the pool basins with the scope of partially reintroducing the original use of the site as a fish pond for *Aphanius fasciatus*. This may be possible in pools which are located in close proximity to areas comprising of ruderal or invasive species, or else at the northern trench which provides direct freshwater input to the waterbody. Even though the species is tolerant to widely fluctuating physico-chemical parameters, especially salinity, it is important that the population resides in pools with sufficient water availability throughout the year. The macroinvertebrate community is also an important trophic level for killifish, and it should reach sufficient numbers prior to reintroduction of the fish species to avoid over predation effects.	The reintroduction of this species is expected to yield a surge in the richness and diversity of such specialised communities in the pools, leading to an increased ecological potential. Care must be taken to ensure that the biodiversity of macroinvertebrates within the pools is maintained at sufficient levels that prevents over predation. Regular counts should be carried out to monitor both trophic levels effectively. The successful reintroduction of *A.fasciatus* could attract a larger number and variety of migrating birds to the area. Monitoring of population numbers is very important to obtain a better understanding of population dynamics and predator-prey relationships.	Increased water permanence is likely to cause changes in the macroinvertebrate species diversity and population numbers without any added management interventions. This is expected to improve the invertebrate BQE status during the summer season. The successful reintroduction of killifish would also permit the monitoring of the fish BQE status which is currently unassessed.	Nature Trust Malta, ERA	€30,000.00 approx. depending on effort and quantities	<u>Medium priority</u> Long term measure to be implemented only if other management actions are successful and have led to an improvement in BQE and Annex I habitat status. Action is difficult to implement but achieves maximum ecological succession potential of the site and restores original community structure and function.

PROPOSED MEASURE	DESCRIPTION	PREDICTED OUTCOME	EFFECT ON BQES & SITE	INTERESTED PARTIES	ESTIMATED COST	SCENARIO
Removal of invasive and ruderal species	Any ruderal and/or invasive alien species occupying various parts of the site (especially it's fringes and the western section) should be removed manually by workers on a regular basis, guided by professional horticulturists and botanical experts. These ecologically degraded areas should be planted with ecologically important vegetative species such as *Juncus maritimus* and *Salicornia ramosissima*, thereby expanding their distribution within the site. Frequent monitoring of the vegetation cover throughout the site would be required to limit the presence and potential expansion of ruderal species.	The removal of such species paves the way for the natural colonisation of marshland species as well as the artificial reintroduction of cultivated indigenous species. Such a measure will help to extend the range of certain protected species and Annex I habitats, and thus improve the ecological potential of the site. The extent of habitat and species reintroductions is shown in Figure 152.	The removal of ruderal and/or invasive alien species helps to maintain the conservation status of various Annex I habitats which may be threatened by the spread of non-indigenous species. This action is also beneficial as it provides the opportunity to expand the range of the current Annex I habitats recorded at the site and to make room for the reintroduction of rare, indigenous and/or endemic species to the marshland. The macrophyte BQE, although currently unassessed, is likely to achieve a good status through the implementation of such a measure.	Nature Trust Malta, ERA.	€ 20,000.00 approx. depending on extent of area	<u>High priority</u> Short to medium term. Requires regular monitoring and follow-ups. Leads to long lasting improvements on the status and range of typical marshland species and habitats.
Improved monitoring systems to assess hydrological and ecological changes	The installation of CCTV cameras in strategic positions should be considered to facilitate monitoring activities and improve record keeping. Whilst the current CCTV system provide some coverage of the site, we recommend that any camera blind spots in the area are circumvented by installing additional cameras. The cameras should clearly show the rainwater runoff routes, the marshland/sea interface and all of the pool basins discussed in this report. This is a particularly important measure to document erosion effects, assess water flow dynamics and localised weather phenomena, document avian species which may frequent the site, facilitate habitat range mapping and carry out historical comparison exercises. The installation of water level metres should also be carried out at each pool basin to allow NTM site officers to take regular (daily/weekly) readings. Multi-parametric probes should also be used *in-situ* to measure and record various	Continuous visual data collection will improve the knowledge of the site's dynamics and will also help to monitor the progress being made through the implementation of the various measures being proposed on site. Site manager or assistants to keep logs of any noticeable events and of regular physico-chemical readings taken from the site.	The status of the site's BQEs are unlikely to improve in the short term. Through effective monitoring, this measure will seek to provide further information about the site, improve record keeping and thus safeguard and maintain the current status of the site.	Nature Trust Malta, ERA.	€ 20,000.00	Short to medium term. Requires regular monitoring and follow ups. Leads to improved knowledge and deductions from site observations.

PROPOSED MEASURE	DESCRIPTION	PREDICTED OUTCOME	EFFECT ON BQES & SITE	INTERESTED PARTIES	ESTIMATED COST	SCENARIO
	physico-chemical parameters (salinity, pH, DOC, temperature etc.), similar to ones assessed in this study. Any monitoring of BQE supporting parameters should be carried out in line with the requirements of the WFD monitoring programme to facilitate synergies between historic and future datasets. An additional monitoring recommendation is the installation of a silt trapping system (consisting of multiple silt traps) that would allow NTM site officers to assess the extent of siltation and sedimentation taking place following each rainfall event. The silt traps should be placed at strategic locations within the site's predicted rainfall runoff route to maximise downstream capture volumes. This action is discussed in further detail in Section 5.1					

5.1 SILT TRAP MONITORING SPECIFICATIONS

The site manager or monitoring specialist should follow the below recommendations when implementing the silt trap monitoring strategy on site:

- The silt traps should be installed as per the schematic drawing, specifications and locations shown in Figure 148 and Figure 149.
- Care must be taken to:
    - ensure sufficient depth of soils to permit complete burial of the silt traps below ground level (avoiding areas where bedrock is shallow);
    - evading areas frequented by the public or easily accessible to the public;
    - avoiding locations comprising of the most sensitive habitats and species.
- Photographs of the silt trap and immediate surroundings (upstream and downstream of the silt trap) should be taken on a regular basis to maintain a photographic record for each silt trap.
- The condition of each silt trap and the adjacent catchment should be observed, with particular emphasis on any erosion features of sediment build-up due to rainfall events or man-made activities.
- The depth of sediment that has been captured on the floor of the silt trap, should be measured with a ruler.
- All the water retained within the silt trap should be carefully removed with a bailer or low intensity pump, making sure that the sediment in the base of the silt trap is not disturbed.
- All the sediment retained within the base of silt trap should be removed and placed in a fully plastic container for transport back to the laboratory. The plastic container will be labelled with the following information:
    - Sample Date and Time
    - Location of Sample
    - Name of Sampler
- The amount of rainfall that has fallen since the last sampling visit should be recorded by making use of rainfall gauges. These should be installed in the immediate vicinity e.g.: at the NTM tool room.
- The make-up of each sample should be described (e.g. clay, silt, sand, gravel, organic matter).
- Each sample should then be dried and weighed.
- A field record sheet is to be compiled for each round of sampling to document clearly what was done in the field, when and what measurements were recorded.
- A particle size distribution (PSD) test shall be carried out on the collected samples to confirm grain size distribution of the sediment trapped at each monitoring location.

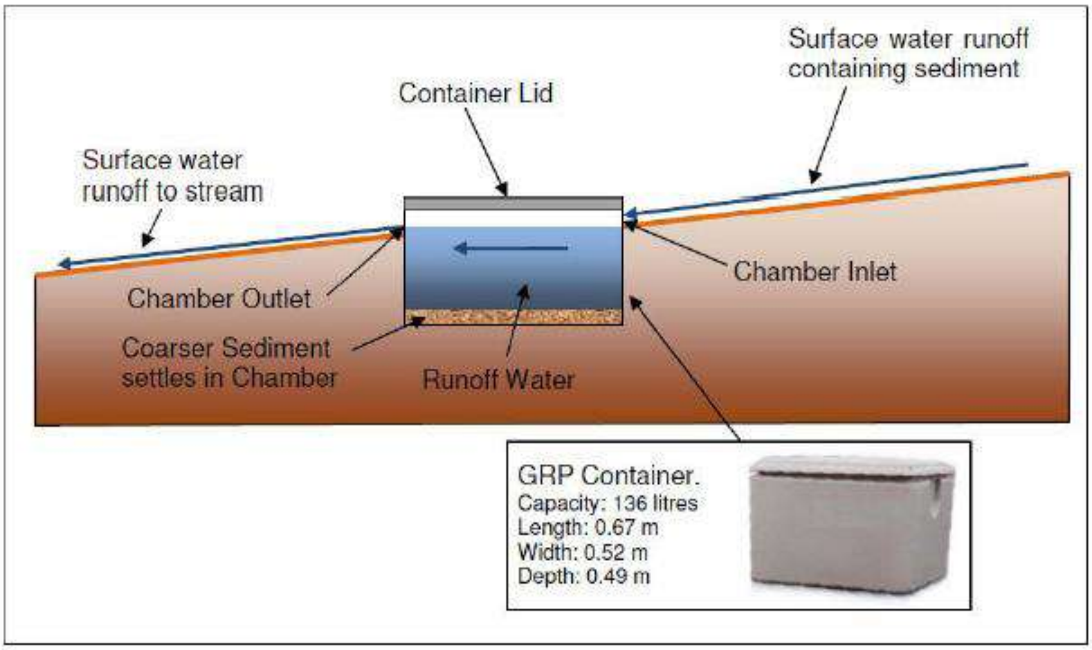


FIGURE 148: SCHEMATIC DRAWING OF A SILT-TRAP SETUP

FIGURE 149: PROPOSED SILT MONITORING LOCATIONS MARKED WITH A WHITE STAR SYMBOL

5.2 HABITAT EXPANSION CONSIDERATIONS

Invasive species are patchily distributed within the salt marsh and there is potential for their spread within the site, thereby potentially outcompeting ecologically important habitats. This is a cause for concern since species such as the invasive *Oxalis pes-caprae* (Cape sorrel) partially constitute the ruderal community.

However, measures could be taken to remove invasive species and replace them with keystone species which are characteristic of Annex I habitats, namely Habitat 1410 and Habitat 1420. Figure 152 shows the potential future expansion of these habitats if they're planted in areas currently occupied by ruderal and invasive species.

The map considers the expansion of these habitats along the western, eastern and southern sections of the marshland. It does not consider habitat expansion in the adjacent third party agricultural land and also does not include any additional pool basins that may be considered in the area proposed for land reclamation works.

At present, the areas covered by Habitat 1410 and Habitat 1420 encompassed within the site boundary are around 100m^2 and 2,350m^2 respectively, based on the areas mapped in Figure 132. With the expansion of these habitats as envisaged in Figure 152, these values would increase to about 700m^2 and 2550m^2 for Habitat 1410 and Habitat 1420 respectively. Expansion of habitats may also be extended to the trench area outside the site boundary north of the site which at present supports a species diversity dominated by alien (invasive and naturalised) species (see Table 25). Figure 152 shows that these species may be replaced with Habitat 1310 surrounding the water body within the trench, Habitat 1420 encircling the former habitat and a band of Tamarisk trees flanking Habitat 1420 on the roadward side. The Tamarisk band would replace the *Arundo donax* reeds which currently border the trench and would serve as a continuation of the border currently present within the boundary of the salt marsh. With the expansion of these habitats within the trench, the additional areas would be around 157 m^2 for Habitat 1310, 332m^2 for Habitat 1420 and 130m^2 for the Tamarisk thickets.

One of the recommendations provided in Section 5 proposes dredging of the trench which acts as the main channel for freshwater runoff flow into the site. Excavating the trench by about 30cm would be sufficient to reach the MSL aquifer and obtain a continuous water recharge to ensure that the trench does not dry up. Nevertheless, Section 5 also proposes the potential reintroduction of *A.fasciatus* into the marshland. This may only possible if such individuals are introduced into marshland basins that are sufficiently deep and large enough to accommodate them successfully. This option is attractive because the trench does not currently comprise of any protected species or habitats that may be adversely affected by the significant morphological changes being proposed. Therefore, the trench can be dredged about 1.2-1.5m deep, to obtain a bathymetric depth of about 1.0m. A cross-sectional view of the proposed intervention is shown hereunder.

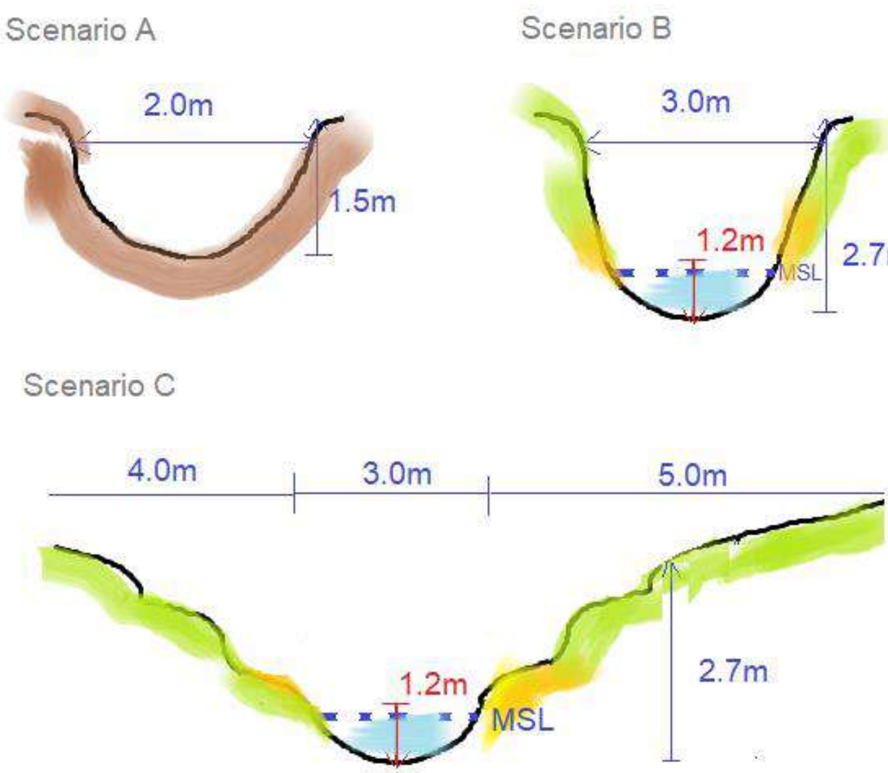


FIGURE 150: CROSS-SECTIONAL DRAWING SHOWING THE CURRENT INDICATIVE DIMENSIONS OF THE TRENCH (SCENARIO A) AND THE PROPOSED DREDGING ACTIVITIES (SCENARIO B & C). SCENARIO C ALSO CONSIDERS MODIFICATIONS TO SLOPE INCLINATION TO FACILITATE HABITAT EXPANSION RANGES. SHADED AREAS IN BROWN INDICATE PRESENCE OF RUDERAL SPECIES, WHILST YELLOW AND GREEN AREAS INDICATE PRESENCE OF RESTORED MARSHLAND COMMUNITIES

Since the trench is about 50m in length, dredging it by 1.2-1.5m creates a basin that can accommodate a significant volume of water for the retention of *A.fasciatus* populations (approximately 120m^3):

$$V = \frac{\pi R_a R_b H}{2}$$

Where:

- V = Volume of an elliptical cylinder divided by 2 (half elliptical cylinder, refer to Figure 151 for graphical representation)
- R_a = 1.0m (depth of basin below MSL);
- R_b = 1.5m (radial width of basin);
- H = length of basin (50m)

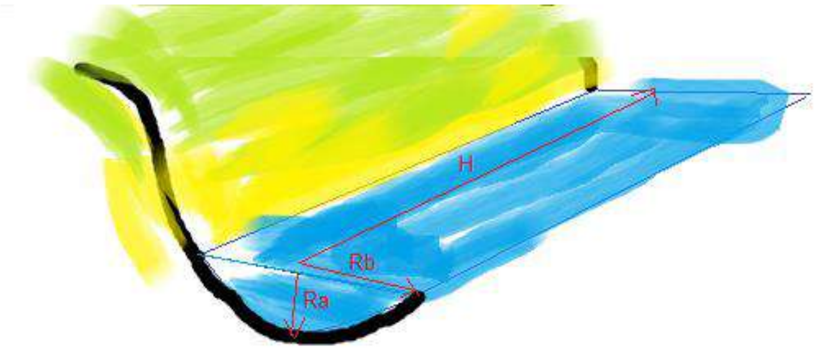
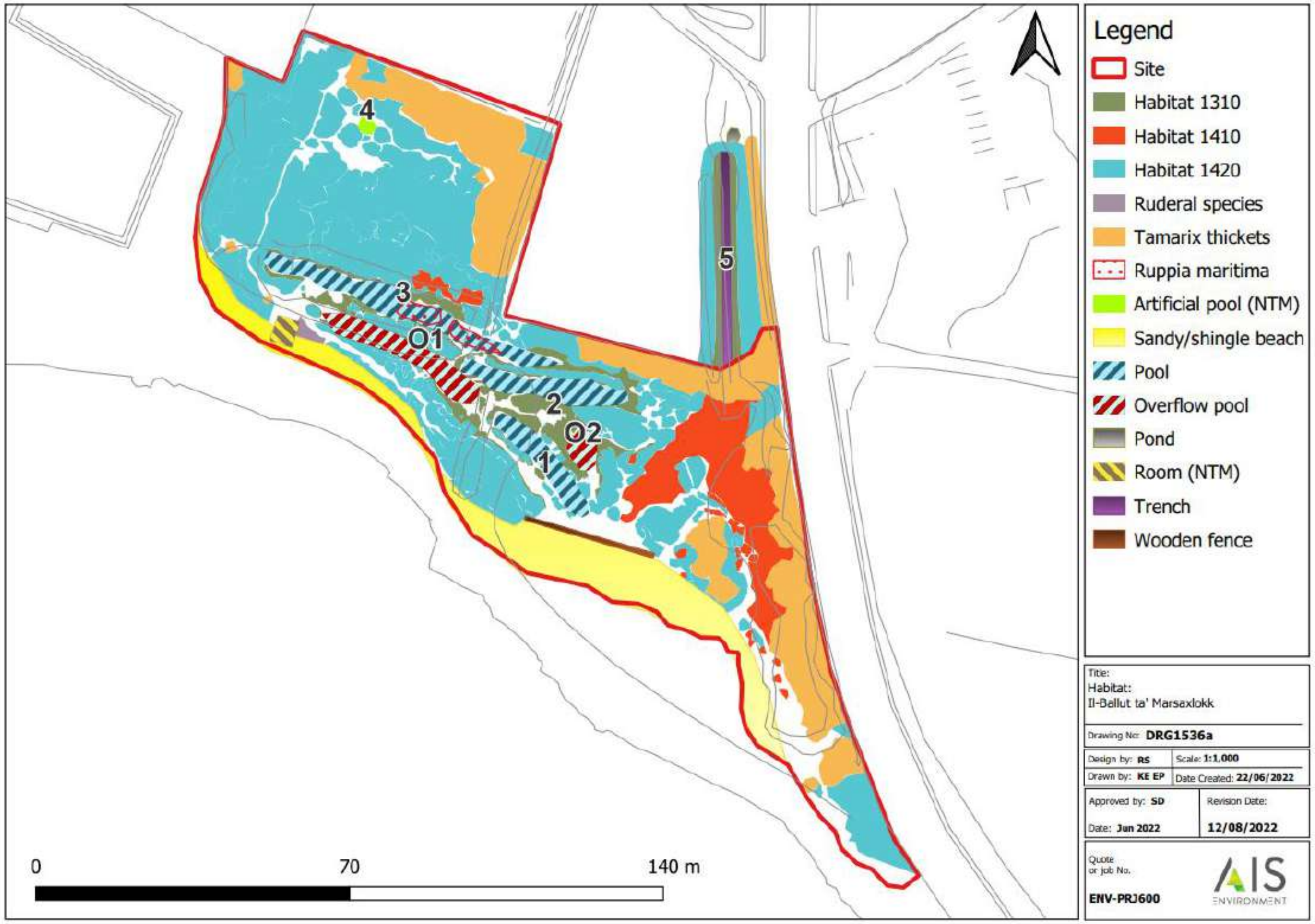


FIGURE 151: SPATIAL PARAMETERS USED TO CALCULATE THE POTENTIAL VOLUME OF WATER WITHIN THE TRENCH

This depth and volume should be sufficient to maintain a small sized population of killifish given that the species is found at similar bathymetric depths in other marshlands in Malta. Further geotechnical and engineering considerations must be undertaken to ensure that this recommendation can be refined and carried out successfully without causing any risks of slope collapse. The possibility of implementing Scenario C should be explored further because it offers the best solution in terms of slope stability and potential area for habitat restoration. Since the trench is located within the confinements of a third party property, further discussions and permissions may be required to proceed with this option.



Legend
Site
Habitat 1310
Habitat 1410
Habitat 1420
Ruderal species
Tamarix thickets
Ruppia maritima
Artificial pool (NTM)
Sandy/shingle beach
Pool
Overflow pool
Pond
Room (NTM)
Trench
Wooden fence
4
5
3
O1
2
O2
1
0
70
140 m
Title:
Habitat:
Il-Ballut ta' Marsaxlokk
Drawing No: DRG1536a
Design by: RS
Scale: 1:1,000
Drawn by: KE EP
Date Created: 22/06/2022
Approved by: SD
Date: Jun 2022
Revision Date:
12/08/2022
Quote or job No.
ENV-PRJ600

FIGURE 152: POTENTIAL EXPANSION FROM THE STATUS QUO OF HABITAT 1410 AND HABITAT 1420 IN REPLACEMENT OF RUDERAL SPECIES

APPENDIX I

WALKOVER SURVEYS – SUMMARY

DATE	CUMULATIVE RAIN AT BENGHISA, MM	REMARKS
4/9/21	0.0	No rainfall all Gulleys are dry. Rain at some localities none at MXlokk
4/10/21	39.6	Water filling gulleys estimated max depth of 25cm Probably from the salt marsh catchment only no runoff from the Balluta catchment
27/10/21	176	All Gulleys are full
12/11/21	286.6	All Saltmarsh is flooded max waterlevel reached estimated to be +0.91 above sea level
15/11/21	286	Water level in saltmarsh lowered by 40mm in 76 hours
19/11/21	296	Water now receed from NW platform and ocupies the three gullys only
25/11/21		• 25 Nov from 6.00 am to 12.00 watch for storm wavesd Southeast force 4 to 5 becoming force 5 to 6 and veering Westerly force 4 • Malta Weather Report : Wind Southeast force 4 to 5 becoming force 5 to 6 and veering Westerly force 4 to 5 • Rainfall 25 Nov started at about 6am stropped at about 11.0am • Rainfall = 34.6mm
26/11/21	344	Following over 44mmm of rainfall the entire saltmarsh including the NW platform has been flooded.
29/11/21	364	A walkover survey was undertaken to examine the impact of storm waves during wind force 6-7WNW. No impact (flooding) was noted
6/12/21	364	Saltmarsh is stil flooded including NW platform Average water depth on platform was 70mm approximately +0.75m above sea level

Date	Cumulative rain at Benghisa, mm	Remarks
8/12/21	364	Average water depth on platform was 70mm approximately +0.75m above sea level
10/12/21	364	
16/12/21	364	Water has now retreated from the NW platform and occupies the three GULLYS only and Pond No 4 about 60cm deep from the surrounding platform
12/12/21		Water has now retreated from the NW platform and occupies the three GULLYS only and Pond No 4 about 60cm deep from the surrounding platform
26/12/21		Water has now retreated from the NW platform and occupies the three GULLYS only and Pond No 4 about 60cm deep from the surrounding platform
07/01/22	385	Water level going down. Level since 26 Dec went down by 26mm
08/01/22	385	
21/01/22	423.4	
4/02/22	423.4	Water now only in gullys. Lowering of water level since 7 Jan =121mm: = Approx 4mm/day
7/02/22		Meeting with ERA on site
1/03/22		Scope of visit was to see Jeff for permission to do sampling. Not seen.
02/03/22	427	Main Pond No 3 is almost dry only separated ponds remain in it . Ponds No 1 and No 2 smaller ponds now have only 5cm to 15cm max of water iin a small pond. Are almost dry. Water depth in pond No 4 is now 5cm. The pond is 60cm deep from the surrounding plain which is at +0.80m Bottom of pond is at +0.20m OD No water seen in channel (pond No 5)

DATE	CUMULATIVE RAIN AT BENGHISA, MM	REMARKS
		Lidar level on top of NT Room =+ 2.93 OD Max water level reached in November Near NT Room was 0.73+0.17= 0.90 Ground level (LIDAR) in gully deepest level:= +0.34m OD
12/03/22	430	Seen for first time TWO large diameter (80cm) pipes draining catchment and discharging in deep channel and reed beds. Seen pond STILL containing water at the pipe discharge point Met Jeff Fenech owner of fields where we can do sampling and testing S1, S2, S3, and S4,
21/3/22	440	18th to 20th March Strong Wind from ESE-Rain 19 march 0.6mm Wind today at Benghisa 11 to 15knts But it is NE.  18th to 20th March strong wind from ESE Rain 19 march 0.6mm totalto date. 440mm Wind today at Benghisa 11 to 15knts But it is NE No impact on saltmarsh NO seawater inflow seen.
		Installed 2 piezometers P1 and P2 in salt marsh No rain since 21st March Gully No 1 some 20cm of water max at deepest point > Mostly dry Pool No 5 in flat plain almost dry Water still filling small pool at discharge point of 2X 80cm pipes, runoff crossing road into trench Other sampling points S1 and S2 originally planned now waiting for response from Jeff Fenech one of the owners of the farm and fields

DATE	CUMULATIVE RAIN AT BENGHISA, MM	REMARKS
13/4/22	442	Drilled and sampled S1 and S2. Located S5 and S6. S6 in road. S5 location agreed with farmer. Rock Upper Globigerina Limestone at shallow depth
23/4/22	442	Measured water levels at S1, S2 and P1, P2 Did falling head permeability test on standpipes S2 Water seen in Pond No 1 and Pond No 2 and in a little pond No 4 on NW platform from sea waves due to strong gale force SE winds on 20 and 21 April 2022. Max speed was 48km/h Due to very strong wind on 20 and 21 April easterly winds ponds no 1 and No 2 (nearest to the sea filled from the sea to a depth of about 25cm direct and by sea spray Wind speed see below https://www.wunderground.com/history/weekly/mt/luqa/LMML/date/2022-4-20 Measured water levels at S1, S2 and P1, P2 Did falling head permeability test on standpipes S2 Water seen in Pond No 1 and Pond No 2 and pond in flat area due to strong winds on 20 an d21 April 2022. Due to very strong wind on 20 and 21 April easterly winds ponds no 1 and No 2 (nearest to the sea filled from the sea to a depth of about 25cm direct and by sea spray Some water was also seen in pond No 4 NW platform originally dry. Wind speed see below https://www.wunderground.com/history/weekly/mt/luqa/LMML/date/2022-4-20
10/5/22	448.8	• Measured water levels • Did falling head permeability test on P1 – unsuccessful head of water added falls to original level iimmediateely something is wrong • Only Gully No 1 East contains about max 25cm of water • Others are empty Rainfall on 8 andf 9 Aprl total was 9mm • Rainfall total at Benghiisa up to 10 May= 448.8mm • Pond in reed culvert still full of fresh water

DATE	CUMULATIVE RAIN AT BENGHISA, MM	REMARKS
27/5/22		Walkover survey and drilling Drilled holes S3 and S4 and S5 and S6 and collected soil samples S3 g level 7.4m depth to bedrock1.5m S4 GLevel 5.6m depth tob/rock 65cm S5 Glevel 55.6m top b/rock 30cm S6 G level 25.3 top b/rock 4.5m in valley fill Salt marsh is mostly dry restricted ponds with some water At salt marsh pond 1 some water Gully No 2 No water Gully No 3 No water Pond No 4 some water about 25cm probably water table at bottom. Pond No 5 in reed beds still fulll of freshwater see photo plastic bottles floating. At the Coastline 5m wide sand dike and about 1.5m high now built on coastline salrtmarsh. see photo. (is being carried away by sea waves- caried completely away with the next storm.)

APPENDIX II

MODEL RUN SHOWING SPS

```
                                  MODFLOW-2005
      U.S. GEOLOGICAL SURVEY MODULAR FINITE-DIFFERENCE GROUND-
WATER FLOW MODEL
                            VERSION 1.11.00 8/8/2013

 LIST FILE: sm01.list
                         UNIT    2

 OPENING sm01.dis
 FILE TYPE:DIS   UNIT   11   STATUS:OLD
 FORMAT:FORMATTED              ACCESS:SEQUENTIAL

 OPENING sm01.bas
 FILE TYPE:BAS6   UNIT   13   STATUS:OLD
 FORMAT:FORMATTED              ACCESS:SEQUENTIAL

 OPENING sm01.lpf
 FILE TYPE:LPF   UNIT   15   STATUS:OLD
 FORMAT:FORMATTED              ACCESS:SEQUENTIAL

 OPENING sm01.wel
 FILE TYPE:WEL   UNIT   20   STATUS:OLD
 FORMAT:FORMATTED              ACCESS:SEQUENTIAL

 OPENING sm01.oc
 FILE TYPE:OC   UNIT  314   STATUS:OLD
 FORMAT:FORMATTED              ACCESS:SEQUENTIAL

 OPENING sm01.pcg
 FILE TYPE:PCG   UNIT   27   STATUS:OLD
 FORMAT:FORMATTED              ACCESS:SEQUENTIAL

 OPENING sm01.cbc
 FILE TYPE:DATA(BINARY)   UNIT  953   STATUS:REPLACE
 FORMAT:BINARY                 ACCESS:SEQUENTIAL

 OPENING sm01.hds
 FILE TYPE:DATA(BINARY)   UNIT   51   STATUS:REPLACE
 FORMAT:BINARY                 ACCESS:SEQUENTIAL

 BAS -- BASIC PACKAGE, VERSION 7, 5/2/2005 INPUT READ FROM UNIT
13

 MODFLOW was compiled using mixed precision
 Precision of REAL variables:           6
 Precision of DOUBLE PRECISION variables:          15

 DISCRETIZATION INPUT DATA READ FROM UNIT   11
 # DIS package for  MODFLOW-2005, generated by Flopy.
    1 LAYERS        20 ROWS        14 COLUMNS
```

```
   14 STRESS PERIOD(S) IN SIMULATION
 MODEL TIME UNIT IS SECONDS
 MODEL LENGTH UNIT IS METERS
  Confining bed flag for each layer:
   0

                     DELR =  10.00000

                     DELC =  10.00000



           TOP ELEVATION OF LAYER 1
 READING ON UNIT   11 WITH FORMAT: (14E15.6)



             MODEL LAYER BOTTOM EL. FOR LAYER   1
 READING ON UNIT   11 WITH FORMAT: (14E15.6)


 STRESS PERIOD     LENGTH       TIME STEPS     MULTIPLIER FOR DELT
SS FLAG
 -----------------------------------------------------------------
-----------
        1         86400.00          1                     1.000
SS
        2         2592000.         30                     1.000
SS
        3         2678400.         31                     1.000
SS
        4         2592000.         30                     1.000
SS
        5         2678400.         31                     1.000
SS
        6         2678400.         31                     1.000
SS
        7         2419200.         28                     1.000
SS
        8         2678400.         31                     1.000
SS
        9         2592000.         30                     1.000
SS
       10         2678400.         31                     1.000
SS
       11         2592000.         30                     1.000
SS
       12         2678400.         31                     1.000
SS
       13         2678400.         31                     1.000
SS
       14         2592000.          1                     1.000
SS

 STEADY-STATE SIMULATION
```

```
 # BAS6 package for  MODFLOW-2005, generated by Flopy.
 THE FREE FORMAT OPTION HAS BEEN SELECTED



                     BOUNDARY ARRAY FOR LAYER   1
 READING ON UNIT   13 WITH FORMAT: (14I10)

 AQUIFER HEAD WILL BE SET TO  -9999.0     AT ALL NO-FLOW NODES
(IBOUND=0).



                       INITIAL HEAD FOR LAYER   1
 READING ON UNIT   13 WITH FORMAT: (14E15.6)
 # OC package for  MODFLOW-2005, generated by Flopy.

 OUTPUT CONTROL IS SPECIFIED ONLY AT TIME STEPS FOR WHICH OUTPUT
IS DESIRED
 COMPACT CELL-BY-CELL BUDGET FILES WILL BE WRITTEN
 AUXILIARY DATA WILL BE SAVED IN CELL-BY-CELL BUDGET FILES
 HEAD PRINT FORMAT CODE IS   0    DRAWDOWN PRINT FORMAT CODE IS
0
 HEADS WILL BE SAVED ON UNIT   51    DRAWDOWNS WILL BE SAVED ON
UNIT    0

 LPF -- LAYER-PROPERTY FLOW PACKAGE, VERSION 7, 5/2/2005
         INPUT READ FROM UNIT   15
 # LPF package for  MODFLOW-2005, generated by Flopy.
 CELL-BY-CELL FLOWS WILL BE SAVED ON UNIT  953
 HEAD AT CELLS THAT CONVERT TO DRY= -1.00000E+30
 No named parameters
 STORAGECOEFFICIENT OPTION:
 Read storage coefficient rather than specific storage

   LAYER FLAGS:
 LAYER       LAYTYP        LAYAVG         CHANI        LAYVKA
LAYWET
 ------------------------------------------------------------------
----------
    1            1             0     1.000E+00             0
0

   INTERPRETATION OF LAYER FLAGS:
                        INTERBLOCK     HORIZONTAL    DATA IN
         LAYER TYPE   TRANSMISSIVITY   ANISOTROPY   ARRAY VKA
WETTABILITY
 LAYER      (LAYTYP)      (LAYAVG)       (CHANI)      (LAYVKA)
(LAYWET)
 ------------------------------------------------------------------
----------
    1   CONVERTIBLE      HARMONIC     1.000E+00    VERTICAL K
NON-WETTABLE
```

```
 WETTING CAPABILITY IS NOT ACTIVE IN ANY LAYER



              HYD. COND. ALONG ROWS FOR LAYER   1
 READING ON UNIT   15 WITH FORMAT: (14E15.6)



                VERTICAL HYD. COND. FOR LAYER   1
 READING ON UNIT   15 WITH FORMAT: (14E15.6)

 WEL -- WELL PACKAGE, VERSION 7, 5/2/2005 INPUT READ FROM UNIT
20
 # WEL package for  MODFLOW-2005, generated by Flopy.
 No named parameters
 MAXIMUM OF      1 ACTIVE WELLS AT ONE TIME
 CELL-BY-CELL FLOWS WILL BE SAVED ON UNIT  953


     0 Well parameters

 PCG -- CONJUGATE-GRADIENT SOLUTION PACKAGE, VERSION 7, 5/2/2005
 # PCG package for  MODFLOW-2005, generated by Flopy.
 MAXIMUM OF     20 CALLS OF SOLUTION ROUTINE
 MAXIMUM OF     10 INTERNAL ITERATIONS PER CALL TO SOLUTION
ROUTINE
 MATRIX PRECONDITIONING TYPE :    1



                                    SOLUTION BY THE CONJUGATE-
GRADIENT METHOD
                                   -------------------------------
------------
                    MAXIMUM NUMBER OF CALLS TO PCG ROUTINE =
20
                        MAXIMUM ITERATIONS PER CALL TO PCG =
10
                               MATRIX PRECONDITIONING TYPE =
1
        RELAXATION FACTOR (ONLY USED WITH PRECOND. TYPE 1) =
0.10000E+01
 PARAMETER OF POLYNOMIAL PRECOND. = 2 (2) OR IS CALCULATED :
0
                         HEAD CHANGE CRITERION FOR CLOSURE =
0.10000E-02
                     RESIDUAL CHANGE CRITERION FOR CLOSURE =
0.10000E-02
            PCG HEAD AND RESIDUAL CHANGE PRINTOUT INTERVAL =
999
     PRINTING FROM SOLVER IS LIMITED(1) OR SUPPRESSED (>1) =
0
                              STEADY-STATE DAMPING PARAMETER =
0.10000E+01
```

```
                              TRANSIENT DAMPING PARAMETER =
0.10000E+01
1
                           STRESS PERIOD NO.    1, LENGTH =
86400.00
                           --------------------------------------
---------

                             NUMBER OF TIME STEPS =     1

                              MULTIPLIER FOR DELT =     1.000

                           INITIAL TIME STEP SIZE =   86400.00

 WELL NO.  LAYER   ROW   COL   STRESS RATE
 --------------------------------------------------
      1      1     11      2       0.000

      1 WELL

 SOLVING FOR HEAD


     3 CALLS TO PCG ROUTINE FOR TIME STEP   1 IN STRESS PERIOD
1
     9 TOTAL ITERATIONS

 MAXIMUM HEAD CHANGE FOR EACH ITERATION (1 INDICATES THE FIRST
INNER ITERATION):

    HEAD CHANGE    HEAD CHANGE    HEAD CHANGE    HEAD CHANGE
HEAD CHANGE
   LAYER,ROW,COL  LAYER,ROW,COL  LAYER,ROW,COL  LAYER,ROW,COL
LAYER,ROW,COL
 -----------------------------------------------------------------
----------
  1 -0.2410      0 -0.6356E-01  0  0.1923E-01  0  0.7183E-02  0
0.2547E-02
   (  1, 20,  2)  (  1,  1,  8)  (  1, 20,  7)  (  1, 20,  5)  (
1, 18,  9)
  0 -0.8797E-03  1  0.2522E-02  0  0.5979E-03  1 -0.2209E-03
   (  1,  2, 10)  (  1, 16,  8)  (  1, 20,  6)  (  1, 11,  9)

 MAXIMUM RESIDUAL FOR EACH ITERATION (1 INDICATES THE FIRST INNER
ITERATION):

    RESIDUAL       RESIDUAL       RESIDUAL       RESIDUAL
RESIDUAL
   LAYER,ROW,COL  LAYER,ROW,COL  LAYER,ROW,COL  LAYER,ROW,COL
LAYER,ROW,COL
 -----------------------------------------------------------------
----------
  1 -0.1277E-04  0  0.6696E-05  0  0.3624E-05  0 -0.1600E-05  0 -
0.6091E-06
   (  1, 20, 12)  (  1,  1, 11)  (  1,  1, 13)  (  1,  2, 13)  (
1,  2, 13)
```

```
  0  0.2119E-06  1  0.2345E-06  0  0.1200E-06  1  0.7992E-07
   (  1,  2, 12)  (  1, 20, 13)  (  1,  1,  2)  (  1,  1,  2)



 OUTPUT CONTROL FOR STRESS PERIOD    1   TIME STEP    1
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  1,
STRESS PERIOD   1
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  1,
STRESS PERIOD   1
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  1,
STRESS PERIOD   1
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  1,
STRESS PERIOD   1
1
             HEAD IN LAYER   1 AT END OF TIME STEP   1 IN STRESS
PERIOD    1
  -------------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

...................................................................
.......................................................
   1   0.5100      0.5310      0.5516      0.5721      0.5925
0.6127      0.6328      0.6527      0.6725      0.6922
       0.7118      0.7313      0.7507      0.7700
   2   0.5100      0.5309      0.5516      0.5721      0.5925
0.6127      0.6328      0.6527      0.6726      0.6923
       0.7118      0.7313      0.7507      0.7700
   3   0.5100      0.5309      0.5515      0.5720      0.5924
0.6127      0.6328      0.6528      0.6726      0.6923
       0.7119      0.7314      0.7507      0.7700
   4   0.5100      0.5309      0.5515      0.5720      0.5924
0.6126      0.6328      0.6528      0.6726      0.6923
       0.7119      0.7314      0.7508      0.7700
   5   0.5100      0.5309      0.5515      0.5720      0.5924
0.6126      0.6327      0.6527      0.6726      0.6923
       0.7119      0.7314      0.7508      0.7700
   6   0.5100      0.5309      0.5515      0.5720      0.5924
0.6126      0.6327      0.6527      0.6726      0.6924
       0.7120      0.7314      0.7508      0.7700
   7   0.5100      0.5308      0.5515      0.5720      0.5923
0.6126      0.6327      0.6527      0.6726      0.6923
       0.7120      0.7314      0.7508      0.7700
   8   0.5100      0.5308      0.5515      0.5720      0.5923
0.6126      0.6327      0.6527      0.6726      0.6923
       0.7120      0.7314      0.7508      0.7700
   9   0.5100      0.5308      0.5515      0.5720      0.5923
0.6126      0.6327      0.6527      0.6725      0.6923
```

```
        0.7119      0.7314      0.7508      0.7700
  10    0.5100      0.5308      0.5515      0.5720      0.5924
0.6126      0.6327      0.6527      0.6725      0.6923
        0.7119      0.7314      0.7508      0.7700
  11    0.5100      0.5308      0.5515      0.5720      0.5924
0.6126      0.6327      0.6527      0.6725      0.6923
        0.7119      0.7314      0.7508      0.7700
  12    0.5100      0.5308      0.5515      0.5720      0.5924
0.6126      0.6327      0.6527      0.6725      0.6923
        0.7119      0.7314      0.7508      0.7700
  13    0.5100      0.5308      0.5514      0.5720      0.5924
0.6126      0.6327      0.6527      0.6725      0.6923
        0.7119      0.7314      0.7508      0.7700
  14    0.5100      0.5308      0.5514      0.5720      0.5924
0.6126      0.6327      0.6527      0.6725      0.6923
        0.7119      0.7314      0.7508      0.7700
  15    0.5100      0.5308      0.5514      0.5719      0.5923
0.6126      0.6327      0.6527      0.6726      0.6923
        0.7119      0.7314      0.7508      0.7700
  16    0.5100      0.5308      0.5514      0.5719      0.5923
0.6126      0.6327      0.6527      0.6726      0.6923
        0.7119      0.7314      0.7508      0.7700
  17    0.5100      0.5308      0.5514      0.5719      0.5923
0.6126      0.6327      0.6527      0.6726      0.6923
        0.7119      0.7314      0.7508      0.7700
  18    0.5100      0.5308      0.5514      0.5719      0.5923
0.6125      0.6327      0.6527      0.6726      0.6923
        0.7120      0.7314      0.7508      0.7700
  19    0.5100      0.5307      0.5514      0.5719      0.5923
0.6125      0.6327      0.6527      0.6726      0.6924
        0.7120      0.7315      0.7508      0.7700
  20    0.5100      0.5307      0.5513      0.5718      0.5922
0.6125      0.6327      0.6527      0.6727      0.6924
        0.7121      0.7315      0.7509      0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    1, STRESS
PERIOD    1
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    1,
STRESS PERIOD   1
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                   IN:
           ---                                   ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =          15.6506       CONSTANT HEAD =
1.8114E-04
               WELLS =           0.0000               WELLS =
0.0000
```

```
            TOTAL IN =          15.6506             TOTAL IN =
1.8114E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =          15.6584        CONSTANT HEAD =
1.8123E-04
               WELLS =           0.0000                WELLS =
0.0000

           TOTAL OUT =          15.6584            TOTAL OUT =
1.8123E-04

            IN - OUT =      -7.7219E-03             IN - OUT =
-8.9378E-08

 PERCENT DISCREPANCY =            -0.05     PERCENT DISCREPANCY =
-0.05




         TIME SUMMARY AT END OF TIME STEP    1 IN STRESS PERIOD
1
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME  86400.      1440.0      24.000     1.00000
2.73785E-03
         TOTAL TIME  86400.      1440.0      24.000     1.00000
2.73785E-03
1
1
                            STRESS PERIOD NO.    2, LENGTH =
2592000.
                            --------------------------------------
---------

                              NUMBER OF TIME STEPS =    30

                               MULTIPLIER FOR DELT =     1.000

                            INITIAL TIME STEP SIZE =   86400.00

 WELL NO.  LAYER   ROW   COL   STRESS RATE
 --------------------------------------------------
      1       1     11      2     -0.4000E-02

      1 WELL
```

```
 SOLVING FOR HEAD

 CELL CONVERSIONS FOR ITER.=  2  LAYER=  1  STEP=  1  PERIOD=   2
(ROW,COL)
    DRY( 11,  2)


     4 CALLS TO PCG ROUTINE FOR TIME STEP   1 IN STRESS PERIOD
2
    20 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    2   TIME STEP    1
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  1,
STRESS PERIOD   2
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  1,
STRESS PERIOD   2
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  1,
STRESS PERIOD   2
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  1,
STRESS PERIOD   2
1
              HEAD IN LAYER   1 AT END OF TIME STEP   1 IN STRESS
PERIOD    2
  ------------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

..................................................................
......................................................
   1   0.5100      0.5309      0.5518      0.5724      0.5929
0.6132      0.6333      0.6533      0.6731      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5518      0.5724      0.5929
0.6132      0.6334      0.6534      0.6732      0.6929
       0.7124      0.7317      0.7509      0.7700
   3   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5726      0.5931
0.6134      0.6335      0.6535      0.6733      0.6930
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5311      0.5521      0.5729      0.5934
0.6136      0.6337      0.6536      0.6734      0.6930
       0.7125      0.7318      0.7509      0.7700
   6   0.5100      0.5313      0.5524      0.5732      0.5937
0.6139      0.6340      0.6538      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
```

```
   7   0.5100       0.5315       0.5528       0.5736       0.5941
0.6143       0.6343       0.6540       0.6736       0.6932
        0.7125       0.7318       0.7510       0.7700
   8   0.5100       0.5319       0.5535       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6932
        0.7126       0.7318       0.7510       0.7700
   9   0.5100       0.5325       0.5548       0.5755       0.5956
0.6153       0.6349       0.6545       0.6739       0.6933
        0.7126       0.7318       0.7510       0.7700
  10   0.5100       0.5334       0.5576       0.5772       0.5964
0.6158       0.6352       0.6546       0.6740       0.6934
        0.7126       0.7318       0.7510       0.7700
  11   0.5100      -1.0000E+30   0.5649       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6934
        0.7127       0.7318       0.7510       0.7700
  12   0.5100       0.5334       0.5577       0.5772       0.5964
0.6157       0.6352       0.6546       0.6740       0.6934
        0.7127       0.7318       0.7510       0.7700
  13   0.5100       0.5327       0.5550       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6933
        0.7126       0.7318       0.7510       0.7700
  14   0.5100       0.5321       0.5537       0.5745       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
        0.7126       0.7318       0.7510       0.7700
  15   0.5100       0.5317       0.5530       0.5738       0.5942
0.6143       0.6343       0.6540       0.6737       0.6932
        0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6538       0.6735       0.6931
        0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5313       0.5523       0.5730       0.5935
0.6138       0.6338       0.6537       0.6734       0.6930
        0.7124       0.7317       0.7509       0.7700
  18   0.5100       0.5312       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6733       0.6929
        0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
        0.7123       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5520       0.5727       0.5932
0.6134       0.6335       0.6534       0.6732       0.6928
        0.7123       0.7316       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    1, STRESS
PERIOD    2
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    1,
STRESS PERIOD   2
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
```

```
           ---                                         ---
             STORAGE =          0.0000                   STORAGE =
0.0000
       CONSTANT HEAD =         31.1633             CONSTANT HEAD =
1.7954E-04
               WELLS =          0.0000                     WELLS =
0.0000

            TOTAL IN =         31.1633                  TOTAL IN =
1.7954E-04

          OUT:                                        OUT:
          ----                                        ----
             STORAGE =          0.0000                   STORAGE =
0.0000
       CONSTANT HEAD =         31.1349             CONSTANT HEAD =
1.7913E-04
               WELLS =          0.0000                     WELLS =
0.0000

           TOTAL OUT =         31.1349                 TOTAL OUT =
1.7913E-04

            IN - OUT =      2.8385E-02                  IN - OUT =
4.1792E-07

 PERCENT DISCREPANCY =           0.09     PERCENT DISCREPANCY =
0.23




         TIME SUMMARY AT END OF TIME STEP    1 IN STRESS PERIOD
2
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME  86400.      1440.0      24.000     1.00000
2.73785E-03
         TOTAL TIME 1.72800E+05  2880.0      48.000      2.0000
5.47570E-03
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   2 IN STRESS PERIOD
2
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    2   TIME STEP    2
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
```

```
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  2,
STRESS PERIOD   2
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  2,
STRESS PERIOD   2
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  2,
STRESS PERIOD   2
 UBDSV4 SAVING "            WELLS" ON UNIT 953 AT TIME STEP  2,
STRESS PERIOD   2
1
              HEAD IN LAYER   1 AT END OF TIME STEP   2 IN STRESS
PERIOD    2
  ------------------------------------------------------------------
-----------

           1            2            3            4            5
6          7            8            9           10
          11           12           13           14

....................................................................
.....................................................
   1   0.5100       0.5310       0.5518       0.5725       0.5929
0.6132       0.6333       0.6533       0.6731       0.6928
       0.7123       0.7317       0.7509       0.7700
   2   0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6533       0.6731       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5310       0.5519       0.5726       0.5931
0.6134       0.6335       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5729       0.5934
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5313       0.5524       0.5732       0.5937
0.6140       0.6340       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7509       0.7700
   7   0.5100       0.5315       0.5528       0.5737       0.5941
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5319       0.5535       0.5744       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7127       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5548       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5334       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
```

```
  12   0.5100       0.5334       0.5577       0.5772       0.5964
0.6157       0.6352       0.6546       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5327       0.5549       0.5756       0.5956
0.6153       0.6349       0.6545       0.6739       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5537       0.5745       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5313       0.5523       0.5730       0.5935
0.6138       0.6339       0.6537       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5312       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5520       0.5727       0.5932
0.6134       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    2, STRESS
PERIOD    2
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    2,
STRESS PERIOD   2
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =          46.6662       CONSTANT HEAD =
1.7943E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =          46.6662            TOTAL IN =
1.7943E-04

          OUT:                                    OUT:
          ----                                    ----
             STORAGE =           0.0000             STORAGE =
0.0000
```

```
       CONSTANT HEAD =          46.6179         CONSTANT HEAD =
1.7920E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =          46.6179             TOTAL OUT =
1.7920E-04

            IN - OUT =       4.8275E-02              IN - OUT =
2.3023E-07

 PERCENT DISCREPANCY =           0.10     PERCENT DISCREPANCY =
0.13




         TIME SUMMARY AT END OF TIME STEP    2 IN STRESS PERIOD
2
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.72800E+05  2880.0      48.000      2.0000
5.47570E-03
         TOTAL TIME 2.59200E+05  4320.0      72.000      3.0000
8.21355E-03
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   3 IN STRESS PERIOD
2
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    2   TIME STEP    3
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  3,
STRESS PERIOD   2
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  3,
STRESS PERIOD   2
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  3,
STRESS PERIOD   2
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  3,
STRESS PERIOD   2
1
              HEAD IN LAYER   1 AT END OF TIME STEP   3 IN STRESS
PERIOD    2
  -----------------------------------------------------------------
-----------
```

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	0.5100	0.5310	0.5518	0.5725	0.5929	0.6132	0.6334	0.6533	0.6732	0.6928	0.7123	0.7317	0.7509	0.7700
2	0.5100	0.5310	0.5518	0.5725	0.5930	0.6133	0.6334	0.6534	0.6732	0.6928	0.7123	0.7317	0.7509	0.7700
3	0.5100	0.5310	0.5519	0.5726	0.5931	0.6134	0.6335	0.6534	0.6732	0.6929	0.7124	0.7317	0.7509	0.7700
4	0.5100	0.5311	0.5520	0.5727	0.5932	0.6135	0.6336	0.6535	0.6733	0.6929	0.7124	0.7317	0.7509	0.7700
5	0.5100	0.5312	0.5522	0.5729	0.5934	0.6137	0.6338	0.6537	0.6734	0.6930	0.7125	0.7318	0.7509	0.7700
6	0.5100	0.5313	0.5524	0.5732	0.5937	0.6140	0.6340	0.6538	0.6735	0.6931	0.7125	0.7318	0.7510	0.7700
7	0.5100	0.5316	0.5528	0.5737	0.5942	0.6143	0.6343	0.6541	0.6737	0.6932	0.7126	0.7318	0.7510	0.7700
8	0.5100	0.5320	0.5536	0.5744	0.5948	0.6148	0.6346	0.6543	0.6738	0.6933	0.7126	0.7319	0.7510	0.7700
9	0.5100	0.5326	0.5549	0.5756	0.5956	0.6153	0.6349	0.6545	0.6740	0.6934	0.7127	0.7319	0.7510	0.7700
10	0.5100	0.5334	0.5576	0.5772	0.5964	0.6158	0.6352	0.6547	0.6741	0.6934	0.7127	0.7319	0.7510	0.7700
11	0.5100	-1.0000E+30	0.5648	0.5791	0.5970	0.6160	0.6353	0.6547	0.6741	0.6935	0.7127	0.7319	0.7510	0.7700
12	0.5100	0.5334	0.5577	0.5772	0.5964	0.6158	0.6352	0.6547	0.6741	0.6934	0.7127	0.7319	0.7510	0.7700
13	0.5100	0.5327	0.5549	0.5756	0.5956	0.6153	0.6349	0.6545	0.6740	0.6934	0.7127	0.7319	0.7510	0.7700
14	0.5100	0.5320	0.5536	0.5745	0.5948	0.6148	0.6346	0.6543	0.6739	0.6933	0.7126	0.7319	0.7510	0.7700
15	0.5100	0.5316	0.5529	0.5738	0.5942	0.6144	0.6343	0.6541	0.6737	0.6932	0.7126	0.7318	0.7510	0.7700
16	0.5100	0.5314	0.5525	0.5733	0.5938	0.6140	0.6341	0.6539	0.6736	0.6931	0.7125	0.7318	0.7510	0.7700

```
  17   0.5100       0.5312       0.5523       0.5730       0.5935
0.6138       0.6339       0.6537       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5312       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    3, STRESS
PERIOD    2
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    3,
STRESS PERIOD   2
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                       IN:
           ---                                       ---
             STORAGE =           0.0000                STORAGE =
0.0000
       CONSTANT HEAD =          62.1628          CONSTANT HEAD =
1.7936E-04
               WELLS =           0.0000                  WELLS =
0.0000

            TOTAL IN =          62.1628               TOTAL IN =
1.7936E-04

          OUT:                                      OUT:
          ----                                      ----
             STORAGE =           0.0000                STORAGE =
0.0000
       CONSTANT HEAD =          62.1045          CONSTANT HEAD =
1.7924E-04
               WELLS =           0.0000                  WELLS =
0.0000

           TOTAL OUT =          62.1045              TOTAL OUT =
1.7924E-04

            IN - OUT =       5.8247E-02               IN - OUT =
1.1544E-07

 PERCENT DISCREPANCY =           0.09     PERCENT DISCREPANCY =
0.06
```

```
         TIME SUMMARY AT END OF TIME STEP    3 IN STRESS PERIOD
2
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.59200E+05  4320.0      72.000      3.0000
8.21355E-03
         TOTAL TIME 3.45600E+05  5760.0      96.000      4.0000
1.09514E-02
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   4 IN STRESS PERIOD
2
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    2   TIME STEP    4
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  4,
STRESS PERIOD   2
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  4,
STRESS PERIOD   2
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  4,
STRESS PERIOD   2
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  4,
STRESS PERIOD   2
1
              HEAD IN LAYER   1 AT END OF TIME STEP   4 IN STRESS
PERIOD    2
  ---------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

.................................................................
.....................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6533      0.6731      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5310      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
```

```
        0.7123        0.7317        0.7509        0.7700
    4   0.5100        0.5311        0.5520        0.5727        0.5932
0.6135        0.6336        0.6536        0.6733        0.6929
        0.7124        0.7317        0.7509        0.7700
    5   0.5100        0.5312        0.5522        0.5729        0.5934
0.6137        0.6338        0.6537        0.6734        0.6930
        0.7124        0.7317        0.7509        0.7700
    6   0.5100        0.5313        0.5524        0.5732        0.5937
0.6140        0.6340        0.6539        0.6736        0.6931
        0.7125        0.7318        0.7509        0.7700
    7   0.5100        0.5316        0.5529        0.5737        0.5942
0.6143        0.6343        0.6541        0.6737        0.6932
        0.7126        0.7318        0.7510        0.7700
    8   0.5100        0.5320        0.5536        0.5744        0.5948
0.6148        0.6346        0.6543        0.6739        0.6933
        0.7126        0.7319        0.7510        0.7700
    9   0.5100        0.5326        0.5549        0.5755        0.5955
0.6153        0.6349        0.6545        0.6740        0.6934
        0.7127        0.7319        0.7510        0.7700
   10   0.5100        0.5335        0.5576        0.5772        0.5964
0.6157        0.6352        0.6546        0.6741        0.6934
        0.7127        0.7319        0.7510        0.7700
   11   0.5100      -1.0000E+30   0.5648        0.5791        0.5970
0.6160        0.6353        0.6547        0.6741        0.6935
        0.7127        0.7319        0.7510        0.7700
   12   0.5100        0.5335        0.5577        0.5772        0.5964
0.6157        0.6352        0.6546        0.6741        0.6934
        0.7127        0.7319        0.7510        0.7700
   13   0.5100        0.5327        0.5549        0.5756        0.5956
0.6153        0.6349        0.6545        0.6740        0.6934
        0.7127        0.7319        0.7510        0.7700
   14   0.5100        0.5320        0.5536        0.5745        0.5948
0.6148        0.6346        0.6543        0.6738        0.6933
        0.7126        0.7319        0.7510        0.7700
   15   0.5100        0.5316        0.5529        0.5738        0.5942
0.6144        0.6343        0.6541        0.6737        0.6932
        0.7126        0.7318        0.7510        0.7700
   16   0.5100        0.5314        0.5525        0.5733        0.5938
0.6141        0.6341        0.6539        0.6736        0.6931
        0.7125        0.7318        0.7510        0.7700
   17   0.5100        0.5312        0.5522        0.5730        0.5935
0.6138        0.6339        0.6538        0.6735        0.6930
        0.7125        0.7318        0.7509        0.7700
   18   0.5100        0.5311        0.5521        0.5728        0.5933
0.6136        0.6337        0.6536        0.6734        0.6930
        0.7124        0.7317        0.7509        0.7700
   19   0.5100        0.5311        0.5520        0.5727        0.5932
0.6135        0.6336        0.6536        0.6733        0.6929
        0.7124        0.7317        0.7509        0.7700
   20   0.5100        0.5311        0.5520        0.5727        0.5932
0.6135        0.6336        0.6535        0.6733        0.6929
        0.7124        0.7317        0.7509        0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    4, STRESS
PERIOD    2
1
```

```
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    4,
STRESS PERIOD   2
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =          77.6586       CONSTANT HEAD =
1.7935E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =          77.6586            TOTAL IN =
1.7935E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =          77.5940       CONSTANT HEAD =
1.7928E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =          77.5940           TOTAL OUT =
1.7928E-04

            IN - OUT =       6.4545E-02            IN - OUT =
7.2847E-08

 PERCENT DISCREPANCY =           0.08     PERCENT DISCREPANCY =
0.04




         TIME SUMMARY AT END OF TIME STEP    4 IN STRESS PERIOD
2
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.       1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 3.45600E+05  5760.0      96.000      4.0000
1.09514E-02
         TOTAL TIME 4.32000E+05  7200.0      120.00      5.0000
1.36893E-02
```

```
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   5 IN STRESS PERIOD
2
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    2   TIME STEP    5
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  5,
STRESS PERIOD   2
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  5,
STRESS PERIOD   2
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  5,
STRESS PERIOD   2
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  5,
STRESS PERIOD   2
1
              HEAD IN LAYER   1 AT END OF TIME STEP   5 IN STRESS
PERIOD    2
  ---------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

.................................................................
.....................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5310      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5932
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5729      0.5934
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7318      0.7509      0.7700
   6   0.5100      0.5313      0.5524      0.5732      0.5937
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
```

```
   9   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7127       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    5, STRESS
PERIOD    2
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    5,
STRESS PERIOD   2
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =          93.1532         CONSTANT HEAD =
1.7934E-04
```

```
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =          93.1532              TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =          93.0852         CONSTANT HEAD =
1.7930E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =          93.0852             TOTAL OUT =
1.7930E-04

            IN - OUT =       6.8077E-02              IN - OUT =
4.0935E-08

 PERCENT DISCREPANCY =           0.07     PERCENT DISCREPANCY =
0.02




         TIME SUMMARY AT END OF TIME STEP    5 IN STRESS PERIOD
2
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 4.32000E+05  7200.0      120.00      5.0000
1.36893E-02
         TOTAL TIME 5.18400E+05  8640.0      144.00      6.0000
1.64271E-02
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   6 IN STRESS PERIOD
2
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    2   TIME STEP    6
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  6,
STRESS PERIOD   2
```

```
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  6,
STRESS PERIOD   2
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  6,
STRESS PERIOD   2
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  6,
STRESS PERIOD   2
1
              HEAD IN LAYER   1 AT END OF TIME STEP   6 IN STRESS
PERIOD    2
  -----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

.................................................................
.....................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6731      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5310      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5932
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5729      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5313      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6736      0.6931
       0.7125      0.7318      0.7509      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  11   0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
       0.7127      0.7319      0.7510      0.7700
  12   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  13   0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
```

```
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5520       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    6, STRESS
PERIOD    2
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    6,
STRESS PERIOD   2
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =         108.6480         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =         108.6480              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =         108.5775         CONSTANT HEAD =
1.7931E-04
               WELLS =           0.0000                 WELLS =
0.0000
```

```
           TOTAL OUT =         108.5775               TOTAL OUT =
1.7931E-04

            IN - OUT =       7.0518E-02                IN - OUT =
2.8274E-08

 PERCENT DISCREPANCY =             0.06     PERCENT DISCREPANCY =
0.02




         TIME SUMMARY AT END OF TIME STEP    6 IN STRESS PERIOD
2
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 5.18400E+05  8640.0      144.00      6.0000
1.64271E-02
         TOTAL TIME 6.04800E+05  10080.      168.00      7.0000
1.91650E-02
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   7 IN STRESS PERIOD
2
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    2   TIME STEP    7
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  7,
STRESS PERIOD   2
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  7,
STRESS PERIOD   2
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  7,
STRESS PERIOD   2
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  7,
STRESS PERIOD   2
1
              HEAD IN LAYER   1 AT END OF TIME STEP   7 IN STRESS
PERIOD    2
  -----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14
```

```
.................................................................
.....................................................
   1  0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
      0.7123       0.7317       0.7509       0.7700
   2  0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
      0.7123       0.7317       0.7509       0.7700
   3  0.5100       0.5310       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
      0.7123       0.7317       0.7509       0.7700
   4  0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
      0.7124       0.7317       0.7509       0.7700
   5  0.5100       0.5312       0.5522       0.5729       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
      0.7124       0.7317       0.7509       0.7700
   6  0.5100       0.5313       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
      0.7125       0.7318       0.7510       0.7700
   7  0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
      0.7126       0.7318       0.7510       0.7700
   8  0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
      0.7126       0.7319       0.7510       0.7700
   9  0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
      0.7127       0.7319       0.7510       0.7700
  10  0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
      0.7127       0.7319       0.7510       0.7700
  11  0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
      0.7127       0.7319       0.7510       0.7700
  12  0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
      0.7127       0.7319       0.7510       0.7700
  13  0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
      0.7127       0.7319       0.7510       0.7700
  14  0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
      0.7127       0.7319       0.7510       0.7700
  15  0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
      0.7126       0.7318       0.7510       0.7700
  16  0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
      0.7125       0.7318       0.7510       0.7700
  17  0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
      0.7125       0.7318       0.7509       0.7700
  18  0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
```

```
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    7, STRESS
PERIOD    2
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    7,
STRESS PERIOD   2
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000                 STORAGE =
0.0000
       CONSTANT HEAD =         124.1426           CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                   WELLS =
0.0000

            TOTAL IN =         124.1426                TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000                 STORAGE =
0.0000
       CONSTANT HEAD =         124.0706           CONSTANT HEAD =
1.7932E-04
               WELLS =           0.0000                   WELLS =
0.0000

           TOTAL OUT =         124.0706               TOTAL OUT =
1.7932E-04

            IN - OUT =       7.1976E-02                IN - OUT =
1.6866E-08

 PERCENT DISCREPANCY =           0.06     PERCENT DISCREPANCY =
0.01
```

```
         TIME SUMMARY AT END OF TIME STEP    7 IN STRESS PERIOD
2
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    ----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 6.04800E+05  10080.      168.00      7.0000
1.91650E-02
         TOTAL TIME 6.91200E+05  11520.      192.00      8.0000
2.19028E-02
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   8 IN STRESS PERIOD
2
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    2   TIME STEP    8
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  8,
STRESS PERIOD   2
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  8,
STRESS PERIOD   2
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  8,
STRESS PERIOD   2
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  8,
STRESS PERIOD   2
1
              HEAD IN LAYER   1 AT END OF TIME STEP   8 IN STRESS
PERIOD    2
  -----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

...................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5310      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5932
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
```

```
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
        0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6736       0.6931
        0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
        0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
        0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
        0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
        0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
        0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
        0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
        0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
        0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
        0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
        0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
        0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
        0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
        0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
        0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    8, STRESS
PERIOD    2
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    8,
STRESS PERIOD   2
  ------------------------------------------------------------------
--------------
```

```
     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                   IN:
           ---                                   ---
             STORAGE =            0.0000            STORAGE =
0.0000
       CONSTANT HEAD =          139.6373      CONSTANT HEAD =
1.7934E-04
               WELLS =            0.0000              WELLS =
0.0000

            TOTAL IN =          139.6373           TOTAL IN =
1.7934E-04

          OUT:                                  OUT:
          ----                                  ----
             STORAGE =            0.0000            STORAGE =
0.0000
       CONSTANT HEAD =          139.5643      CONSTANT HEAD =
1.7932E-04
               WELLS =            0.0000              WELLS =
0.0000

           TOTAL OUT =          139.5643          TOTAL OUT =
1.7932E-04

            IN - OUT =        7.3013E-02           IN - OUT =
1.2078E-08

 PERCENT DISCREPANCY =            0.05     PERCENT DISCREPANCY =
0.01




         TIME SUMMARY AT END OF TIME STEP    8 IN STRESS PERIOD
2
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 6.91200E+05  11520.      192.00      8.0000
2.19028E-02
         TOTAL TIME 7.77600E+05  12960.      216.00      9.0000
2.46407E-02
1

 SOLVING FOR HEAD
```

```
     1 CALLS TO PCG ROUTINE FOR TIME STEP   9 IN STRESS PERIOD
2
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    2   TIME STEP    9
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  9,
STRESS PERIOD   2
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  9,
STRESS PERIOD   2
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  9,
STRESS PERIOD   2
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  9,
STRESS PERIOD   2
1
              HEAD IN LAYER   1 AT END OF TIME STEP   9 IN STRESS
PERIOD    2
  -----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

...................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5310      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5932
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
```

```
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    9, STRESS
PERIOD    2
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    9,
STRESS PERIOD   2
  ---------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =         155.1320        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000
```

```
             TOTAL IN =         155.1320              TOTAL IN =
1.7934E-04

          OUT:                                      OUT:
          ----                                      ----
              STORAGE =           0.0000               STORAGE =
0.0000
        CONSTANT HEAD =         155.0583         CONSTANT HEAD =
1.7933E-04
                WELLS =           0.0000                 WELLS =
0.0000

            TOTAL OUT =         155.0583             TOTAL OUT =
1.7933E-04

             IN - OUT =       7.3654E-02              IN - OUT =
7.3924E-09

  PERCENT DISCREPANCY =             0.05     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    9 IN STRESS PERIOD
2
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 7.77600E+05  12960.      216.00      9.0000
2.46407E-02
         TOTAL TIME 8.64000E+05  14400.      240.00     10.0000
2.73785E-02
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  10 IN STRESS PERIOD
2
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    2   TIME STEP   10
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 10,
STRESS PERIOD   2
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 10,
STRESS PERIOD   2
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 10,
STRESS PERIOD   2
```

```
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 10,
STRESS PERIOD   2
1
              HEAD IN LAYER   1 AT END OF TIME STEP  10 IN STRESS
PERIOD    2
  ----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

..................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5932
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  11   0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
       0.7127      0.7319      0.7510      0.7700
  12   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  13   0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  14   0.5100      0.5320      0.5536      0.5745      0.5948
0.6148      0.6346      0.6543      0.6739      0.6933
       0.7126      0.7319      0.7510      0.7700
```

```
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   10, STRESS
PERIOD    2
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   10,
STRESS PERIOD   2
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =         170.6267       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =         170.6267            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =         170.5526       CONSTANT HEAD =
1.7933E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =         170.5526           TOTAL OUT =
1.7933E-04
```

```
            IN - OUT =       7.4112E-02              IN - OUT =
5.3551E-09

 PERCENT DISCREPANCY =           0.04     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   10 IN STRESS PERIOD
2
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 8.64000E+05  14400.      240.00     10.0000
2.73785E-02
         TOTAL TIME 9.50400E+05  15840.      264.00      11.000
3.01164E-02
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  11 IN STRESS PERIOD
2
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    2   TIME STEP   11
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 11,
STRESS PERIOD   2
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 11,
STRESS PERIOD   2
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 11,
STRESS PERIOD   2
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 11,
STRESS PERIOD   2
1
              HEAD IN LAYER   1 AT END OF TIME STEP  11 IN STRESS
PERIOD    2
  ---------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

.................................................................
.....................................................
```

```
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5932
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  11   0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
       0.7127      0.7319      0.7510      0.7700
  12   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  13   0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  14   0.5100      0.5320      0.5536      0.5745      0.5948
0.6148      0.6346      0.6543      0.6739      0.6933
       0.7126      0.7319      0.7510      0.7700
  15   0.5100      0.5316      0.5529      0.5738      0.5942
0.6144      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
  16   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6341      0.6539      0.6736      0.6931
       0.7125      0.7318      0.7510      0.7700
  17   0.5100      0.5312      0.5522      0.5730      0.5935
0.6138      0.6339      0.6538      0.6735      0.6930
       0.7125      0.7318      0.7509      0.7700
  18   0.5100      0.5311      0.5521      0.5728      0.5933
0.6136      0.6337      0.6536      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
  19   0.5100      0.5311      0.5520      0.5727      0.5932
0.6135      0.6336      0.6536      0.6733      0.6929
```

```
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   11, STRESS
PERIOD    2
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   11,
STRESS PERIOD   2
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =         186.1214         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =         186.1214              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =         186.0470         CONSTANT HEAD =
1.7933E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =         186.0470             TOTAL OUT =
1.7933E-04

            IN - OUT =       7.4402E-02              IN - OUT =
3.3178E-09

 PERCENT DISCREPANCY =           0.04     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   11 IN STRESS PERIOD
2
                    SECONDS      MINUTES       HOURS        DAYS
YEARS
```

```
                    ----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 9.50400E+05  15840.      264.00      11.000
3.01164E-02
         TOTAL TIME 1.03680E+06  17280.      288.00      12.000
3.28542E-02
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  12 IN STRESS PERIOD
2
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    2   TIME STEP   12
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 12,
STRESS PERIOD   2
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 12,
STRESS PERIOD   2
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 12,
STRESS PERIOD   2
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 12,
STRESS PERIOD   2
1
              HEAD IN LAYER   1 AT END OF TIME STEP  12 IN STRESS
PERIOD    2
  ------------------------------------------------------------------
-----------

          1           2           3           4           5
6         7           8           9          10
         11          12          13          14

....................................................................
.......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5932
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
```

```
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   12, STRESS
PERIOD    2
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   12,
STRESS PERIOD   2
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
```

```
      ------------------                   ------------------------

            IN:                                        IN:
            ---                                        ---
              STORAGE =            0.0000                STORAGE =
0.0000
        CONSTANT HEAD =          201.6161          CONSTANT HEAD =
1.7934E-04
                WELLS =            0.0000                  WELLS =
0.0000

             TOTAL IN =          201.6161               TOTAL IN =
1.7934E-04

           OUT:                                       OUT:
           ----                                       ----
              STORAGE =            0.0000                STORAGE =
0.0000
        CONSTANT HEAD =          201.5415          CONSTANT HEAD =
1.7933E-04
                WELLS =            0.0000                  WELLS =
0.0000

            TOTAL OUT =          201.5415              TOTAL OUT =
1.7933E-04

             IN - OUT =        7.4600E-02               IN - OUT =
2.3865E-09

 PERCENT DISCREPANCY =             0.04     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   12 IN STRESS PERIOD
2
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.03680E+06  17280.      288.00      12.000
3.28542E-02
         TOTAL TIME 1.12320E+06  18720.      312.00      13.000
3.55921E-02
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  13 IN STRESS PERIOD
2
     1 TOTAL ITERATIONS
```

```
 OUTPUT CONTROL FOR STRESS PERIOD    2   TIME STEP   13
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 13,
STRESS PERIOD   2
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 13,
STRESS PERIOD   2
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 13,
STRESS PERIOD   2
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 13,
STRESS PERIOD   2
1
              HEAD IN LAYER   1 AT END OF TIME STEP  13 IN STRESS
PERIOD    2
  ----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

..................................................................
.......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5932
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
```

```
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   13, STRESS
PERIOD    2
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   13,
STRESS PERIOD   2
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                   IN:
           ---                                   ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =         217.1108       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =         217.1108            TOTAL IN =
1.7934E-04

          OUT:                                  OUT:
```

```
          ----                                         ----
             STORAGE =            0.0000                  STORAGE =
0.0000
       CONSTANT HEAD =          217.0361            CONSTANT HEAD =
1.7934E-04
               WELLS =            0.0000                    WELLS =
0.0000

           TOTAL OUT =          217.0361                TOTAL OUT =
1.7934E-04

            IN - OUT =        7.4738E-02                 IN - OUT =
1.5134E-09

 PERCENT DISCREPANCY =              0.03      PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   13 IN STRESS PERIOD
2
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.12320E+06  18720.      312.00      13.000
3.55921E-02
         TOTAL TIME 1.20960E+06  20160.      336.00      14.000
3.83299E-02
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  14 IN STRESS PERIOD
2
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    2   TIME STEP   14
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 14,
STRESS PERIOD   2
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 14,
STRESS PERIOD   2
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 14,
STRESS PERIOD   2
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 14,
STRESS PERIOD   2
1
```

```
              HEAD IN LAYER   1 AT END OF TIME STEP  14 IN STRESS
PERIOD    2
  ----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

..................................................................
.....................................................
   1    0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
        0.7123      0.7317      0.7509      0.7700
   2    0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
        0.7123      0.7317      0.7509      0.7700
   3    0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
        0.7123      0.7317      0.7509      0.7700
   4    0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
        0.7124      0.7317      0.7509      0.7700
   5    0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
        0.7124      0.7317      0.7509      0.7700
   6    0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
        0.7125      0.7318      0.7510      0.7700
   7    0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
        0.7126      0.7318      0.7510      0.7700
   8    0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
        0.7126      0.7319      0.7510      0.7700
   9    0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
        0.7127      0.7319      0.7510      0.7700
  10    0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
        0.7127      0.7319      0.7510      0.7700
  11    0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
        0.7127      0.7319      0.7510      0.7700
  12    0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
        0.7127      0.7319      0.7510      0.7700
  13    0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
        0.7127      0.7319      0.7510      0.7700
  14    0.5100      0.5320      0.5536      0.5745      0.5948
0.6148      0.6346      0.6543      0.6739      0.6933
        0.7126      0.7319      0.7510      0.7700
  15    0.5100      0.5316      0.5529      0.5738      0.5942
0.6144      0.6343      0.6541      0.6737      0.6932
        0.7126      0.7318      0.7510      0.7700
```

```
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   14, STRESS
PERIOD    2
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   14,
STRESS PERIOD   2
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =         232.6056        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

            TOTAL IN =         232.6056             TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =         232.5307        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

           TOTAL OUT =         232.5307            TOTAL OUT =
1.7934E-04

            IN - OUT =       7.4829E-02             IN - OUT =
1.0768E-09
```

```
 PERCENT DISCREPANCY =           0.03     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   14 IN STRESS PERIOD
2
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.20960E+06  20160.      336.00      14.000
3.83299E-02
         TOTAL TIME 1.29600E+06  21600.      360.00      15.000
4.10678E-02
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  15 IN STRESS PERIOD
2
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    2   TIME STEP   15
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 15,
STRESS PERIOD   2
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 15,
STRESS PERIOD   2
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 15,
STRESS PERIOD   2
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 15,
STRESS PERIOD   2
1
              HEAD IN LAYER   1 AT END OF TIME STEP  15 IN STRESS
PERIOD    2
  -----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

...................................................................
.......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
```

```
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
```

```
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   15, STRESS
PERIOD    2
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   15,
STRESS PERIOD   2
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =         248.1003         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =         248.1003              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =         248.0254         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =         248.0254             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.4890E-02              IN - OUT =
6.8394E-10

 PERCENT DISCREPANCY =           0.03     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   15 IN STRESS PERIOD
2
                    SECONDS      MINUTES       HOURS        DAYS
YEARS
                    -----------------------------------------------
-------------
```

```
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.29600E+06  21600.      360.00      15.000
4.10678E-02
         TOTAL TIME 1.38240E+06  23040.      384.00      16.000
4.38056E-02
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  16 IN STRESS PERIOD
2
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    2   TIME STEP   16
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 16,
STRESS PERIOD   2
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 16,
STRESS PERIOD   2
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 16,
STRESS PERIOD   2
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 16,
STRESS PERIOD   2
1
              HEAD IN LAYER   1 AT END OF TIME STEP  16 IN STRESS
PERIOD    2
  ----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

..................................................................
.....................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133     0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133     0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134     0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135     0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137     0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140     0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
```

```
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
        0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
        0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
        0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
        0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
        0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
        0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
        0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
        0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
        0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
        0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
        0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
        0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
        0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
        0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   16, STRESS
PERIOD    2
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   16,
STRESS PERIOD   2
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
```

```
          ---                                       ---
             STORAGE =           0.0000                STORAGE =
0.0000
       CONSTANT HEAD =         263.5950          CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                  WELLS =
0.0000

            TOTAL IN =         263.5950               TOTAL IN =
1.7934E-04

          OUT:                                      OUT:
          ----                                      ----
             STORAGE =           0.0000                STORAGE =
0.0000
       CONSTANT HEAD =         263.5201          CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                  WELLS =
0.0000

           TOTAL OUT =         263.5201              TOTAL OUT =
1.7934E-04

            IN - OUT =       7.4921E-02               IN - OUT =
4.9477E-10

 PERCENT DISCREPANCY =           0.03     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   16 IN STRESS PERIOD
2
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.38240E+06  23040.      384.00      16.000
4.38056E-02
         TOTAL TIME 1.46880E+06  24480.      408.00      17.000
4.65435E-02
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  17 IN STRESS PERIOD
2
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    2   TIME STEP   17
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
```

```
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 17,
STRESS PERIOD   2
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 17,
STRESS PERIOD   2
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 17,
STRESS PERIOD   2
 UBDSV4 SAVING "            WELLS" ON UNIT 953 AT TIME STEP 17,
STRESS PERIOD   2
1
              HEAD IN LAYER   1 AT END OF TIME STEP  17 IN STRESS
PERIOD    2
  -----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

.................................................................
.....................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  11   0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
       0.7127      0.7319      0.7510      0.7700
```

```
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   17, STRESS
PERIOD    2
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   17,
STRESS PERIOD   2
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =         279.0898         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =         279.0898              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =
0.0000
```

```
       CONSTANT HEAD =         279.0148          CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                  WELLS =
0.0000

           TOTAL OUT =         279.0148              TOTAL OUT =
1.7934E-04

            IN - OUT =       7.4921E-02               IN - OUT =
3.0559E-10

 PERCENT DISCREPANCY =            0.03     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   17 IN STRESS PERIOD
2
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.46880E+06  24480.      408.00      17.000
4.65435E-02
         TOTAL TIME 1.55520E+06  25920.      432.00      18.000
4.92813E-02
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  18 IN STRESS PERIOD
2
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    2   TIME STEP   18
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 18,
STRESS PERIOD   2
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 18,
STRESS PERIOD   2
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 18,
STRESS PERIOD   2
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 18,
STRESS PERIOD   2
1
              HEAD IN LAYER   1 AT END OF TIME STEP  18 IN STRESS
PERIOD    2
  -------------------------------------------------------------------
-----------
```

```
              1              2              3              4              5
6             7              8              9             10
             11             12             13             14

.....................................................................
.........................................................
    1   0.5100        0.5310        0.5518        0.5725        0.5930
0.6133        0.6334        0.6534        0.6732        0.6928
        0.7123        0.7317        0.7509        0.7700
    2   0.5100        0.5310        0.5519        0.5725        0.5930
0.6133        0.6334        0.6534        0.6732        0.6928
        0.7123        0.7317        0.7509        0.7700
    3   0.5100        0.5311        0.5519        0.5726        0.5931
0.6134        0.6335        0.6535        0.6732        0.6929
        0.7123        0.7317        0.7509        0.7700
    4   0.5100        0.5311        0.5520        0.5727        0.5933
0.6135        0.6336        0.6536        0.6733        0.6929
        0.7124        0.7317        0.7509        0.7700
    5   0.5100        0.5312        0.5522        0.5730        0.5935
0.6137        0.6338        0.6537        0.6734        0.6930
        0.7124        0.7317        0.7509        0.7700
    6   0.5100        0.5314        0.5525        0.5733        0.5938
0.6140        0.6340        0.6539        0.6735        0.6931
        0.7125        0.7318        0.7510        0.7700
    7   0.5100        0.5316        0.5529        0.5737        0.5942
0.6143        0.6343        0.6541        0.6737        0.6932
        0.7126        0.7318        0.7510        0.7700
    8   0.5100        0.5320        0.5536        0.5744        0.5948
0.6148        0.6346        0.6543        0.6738        0.6933
        0.7126        0.7319        0.7510        0.7700
    9   0.5100        0.5326        0.5549        0.5755        0.5955
0.6153        0.6349        0.6545        0.6740        0.6934
        0.7127        0.7319        0.7510        0.7700
   10   0.5100        0.5335        0.5576        0.5772        0.5964
0.6157        0.6352        0.6546        0.6741        0.6934
        0.7127        0.7319        0.7510        0.7700
   11   0.5100       -1.0000E+30    0.5648        0.5791        0.5970
0.6160        0.6353        0.6547        0.6741        0.6935
        0.7127        0.7319        0.7510        0.7700
   12   0.5100        0.5335        0.5576        0.5772        0.5964
0.6157        0.6352        0.6546        0.6741        0.6934
        0.7127        0.7319        0.7510        0.7700
   13   0.5100        0.5326        0.5549        0.5756        0.5955
0.6153        0.6349        0.6545        0.6740        0.6934
        0.7127        0.7319        0.7510        0.7700
   14   0.5100        0.5320        0.5536        0.5745        0.5948
0.6148        0.6346        0.6543        0.6739        0.6933
        0.7126        0.7319        0.7510        0.7700
   15   0.5100        0.5316        0.5529        0.5738        0.5942
0.6144        0.6343        0.6541        0.6737        0.6932
        0.7126        0.7318        0.7510        0.7700
   16   0.5100        0.5314        0.5525        0.5733        0.5938
0.6140        0.6341        0.6539        0.6736        0.6931
        0.7125        0.7318        0.7510        0.7700
```

```
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   18, STRESS
PERIOD    2
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   18,
STRESS PERIOD   2
  ----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =         294.5845        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

            TOTAL IN =         294.5845             TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =         294.5096        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

           TOTAL OUT =         294.5096            TOTAL OUT =
1.7934E-04

            IN - OUT =       7.4921E-02             IN - OUT =
2.1828E-10

 PERCENT DISCREPANCY =           0.03     PERCENT DISCREPANCY =
0.00
```

```
        TIME SUMMARY AT END OF TIME STEP   18 IN STRESS PERIOD
2
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.55520E+06  25920.      432.00      18.000
4.92813E-02
         TOTAL TIME 1.64160E+06  27360.      456.00      19.000
5.20192E-02
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  19 IN STRESS PERIOD
2
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    2   TIME STEP   19
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 19,
STRESS PERIOD   2
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 19,
STRESS PERIOD   2
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 19,
STRESS PERIOD   2
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 19,
STRESS PERIOD   2
1
              HEAD IN LAYER   1 AT END OF TIME STEP  19 IN STRESS
PERIOD    2
  ----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

..................................................................
.....................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
```

```
         0.7123       0.7317       0.7509       0.7700
   4     0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
         0.7124       0.7317       0.7509       0.7700
   5     0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
         0.7124       0.7317       0.7509       0.7700
   6     0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
         0.7125       0.7318       0.7510       0.7700
   7     0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
         0.7126       0.7318       0.7510       0.7700
   8     0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
         0.7126       0.7319       0.7510       0.7700
   9     0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
         0.7127       0.7319       0.7510       0.7700
  10     0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
         0.7127       0.7319       0.7510       0.7700
  11     0.5100     -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
         0.7127       0.7319       0.7510       0.7700
  12     0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
         0.7127       0.7319       0.7510       0.7700
  13     0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
         0.7127       0.7319       0.7510       0.7700
  14     0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
         0.7126       0.7319       0.7510       0.7700
  15     0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
         0.7126       0.7318       0.7510       0.7700
  16     0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
         0.7125       0.7318       0.7510       0.7700
  17     0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
         0.7125       0.7318       0.7509       0.7700
  18     0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
         0.7124       0.7317       0.7509       0.7700
  19     0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
         0.7124       0.7317       0.7509       0.7700
  20     0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
         0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   19, STRESS
PERIOD    2
1
```

```
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   19,
STRESS PERIOD   2
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                    IN:
           ---                                    ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =         310.0792       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =         310.0792            TOTAL IN =
1.7934E-04

          OUT:                                   OUT:
          ----                                   ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =         310.0043       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =         310.0043           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.4921E-02            IN - OUT =
1.3097E-10

 PERCENT DISCREPANCY =           0.02     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   19 IN STRESS PERIOD
2
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.64160E+06  27360.      456.00      19.000
5.20192E-02
         TOTAL TIME 1.72800E+06  28800.      480.00      20.000
5.47570E-02
```

```
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  20 IN STRESS PERIOD
2
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    2   TIME STEP   20
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 20,
STRESS PERIOD   2
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 20,
STRESS PERIOD   2
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 20,
STRESS PERIOD   2
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 20,
STRESS PERIOD   2
1
              HEAD IN LAYER   1 AT END OF TIME STEP  20 IN STRESS
PERIOD    2
  -----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

..................................................................
.........................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
```

```
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   20, STRESS
PERIOD    2
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   20,
STRESS PERIOD   2
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                   IN:
           ---                                   ---
             STORAGE =           0.0000            STORAGE =
0.0000
       CONSTANT HEAD =         325.5739      CONSTANT HEAD =
1.7934E-04
```

```
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =         325.5739            TOTAL IN =
1.7934E-04

          OUT:                                   OUT:
          ----                                   ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =         325.4990       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =         325.4990           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.4921E-02            IN - OUT =
8.7311E-11

 PERCENT DISCREPANCY =             0.02     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   20 IN STRESS PERIOD
2
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.72800E+06  28800.      480.00      20.000
5.47570E-02
         TOTAL TIME 1.81440E+06  30240.      504.00      21.000
5.74949E-02
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  21 IN STRESS PERIOD
2
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    2   TIME STEP   21
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 21,
STRESS PERIOD   2
```

```
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 21,
STRESS PERIOD   2
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 21,
STRESS PERIOD   2
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 21,
STRESS PERIOD   2
1
              HEAD IN LAYER   1 AT END OF TIME STEP  21 IN STRESS
PERIOD    2
  -----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

.................................................................
.....................................................
   1    0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
        0.7123      0.7317      0.7509      0.7700
   2    0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
        0.7123      0.7317      0.7509      0.7700
   3    0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
        0.7123      0.7317      0.7509      0.7700
   4    0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
        0.7124      0.7317      0.7509      0.7700
   5    0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
        0.7124      0.7317      0.7509      0.7700
   6    0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
        0.7125      0.7318      0.7510      0.7700
   7    0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
        0.7126      0.7318      0.7510      0.7700
   8    0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
        0.7126      0.7319      0.7510      0.7700
   9    0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
        0.7127      0.7319      0.7510      0.7700
  10    0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
        0.7127      0.7319      0.7510      0.7700
  11    0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
        0.7127      0.7319      0.7510      0.7700
  12    0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
        0.7127      0.7319      0.7510      0.7700
  13    0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
```

```
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   21, STRESS
PERIOD    2
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   21,
STRESS PERIOD   2
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =         341.0686        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

            TOTAL IN =         341.0686             TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =         340.9937        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000
```

```
           TOTAL OUT =        340.9937              TOTAL OUT =
1.7934E-04

            IN - OUT =      7.4921E-02               IN - OUT =
5.8208E-11

 PERCENT DISCREPANCY =           0.02     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   21 IN STRESS PERIOD
2
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    ----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.81440E+06  30240.      504.00      21.000
5.74949E-02
         TOTAL TIME 1.90080E+06  31680.      528.00      22.000
6.02327E-02
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  22 IN STRESS PERIOD
2
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    2   TIME STEP   22
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 22,
STRESS PERIOD   2
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 22,
STRESS PERIOD   2
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 22,
STRESS PERIOD   2
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 22,
STRESS PERIOD   2
1
              HEAD IN LAYER   1 AT END OF TIME STEP  22 IN STRESS
PERIOD    2
  ----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14
```

```
.........................................................................
.....................................................
   1  0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
      0.7123      0.7317      0.7509      0.7700
   2  0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
      0.7123      0.7317      0.7509      0.7700
   3  0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
      0.7123      0.7317      0.7509      0.7700
   4  0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
      0.7124      0.7317      0.7509      0.7700
   5  0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
      0.7124      0.7317      0.7509      0.7700
   6  0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
      0.7125      0.7318      0.7510      0.7700
   7  0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
      0.7126      0.7318      0.7510      0.7700
   8  0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
      0.7126      0.7319      0.7510      0.7700
   9  0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
      0.7127      0.7319      0.7510      0.7700
  10  0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
      0.7127      0.7319      0.7510      0.7700
  11  0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
      0.7127      0.7319      0.7510      0.7700
  12  0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
      0.7127      0.7319      0.7510      0.7700
  13  0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
      0.7127      0.7319      0.7510      0.7700
  14  0.5100      0.5320      0.5536      0.5745      0.5948
0.6148      0.6346      0.6543      0.6739      0.6933
      0.7126      0.7319      0.7510      0.7700
  15  0.5100      0.5316      0.5529      0.5738      0.5942
0.6144      0.6343      0.6541      0.6737      0.6932
      0.7126      0.7318      0.7510      0.7700
  16  0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6341      0.6539      0.6736      0.6931
      0.7125      0.7318      0.7510      0.7700
  17  0.5100      0.5312      0.5522      0.5730      0.5935
0.6138      0.6339      0.6538      0.6735      0.6930
      0.7125      0.7318      0.7509      0.7700
  18  0.5100      0.5311      0.5521      0.5728      0.5933
0.6136      0.6337      0.6536      0.6734      0.6930
```

```
       0.7124      0.7317      0.7509      0.7700
  19   0.5100      0.5311      0.5520      0.5727      0.5932
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
  20   0.5100      0.5311      0.5519      0.5726      0.5932
0.6135      0.6336      0.6535      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   22, STRESS
PERIOD    2
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   22,
STRESS PERIOD   2
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000                 STORAGE =
0.0000
       CONSTANT HEAD =         356.5634           CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                   WELLS =
0.0000

            TOTAL IN =         356.5634                TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000                 STORAGE =
0.0000
       CONSTANT HEAD =         356.4884           CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                   WELLS =
0.0000

           TOTAL OUT =         356.4884               TOTAL OUT =
1.7934E-04

            IN - OUT =       7.4921E-02                IN - OUT =
5.8208E-11

 PERCENT DISCREPANCY =           0.02     PERCENT DISCREPANCY =
0.00
```

```
         TIME SUMMARY AT END OF TIME STEP   22 IN STRESS PERIOD
2
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.90080E+06  31680.      528.00      22.000
6.02327E-02
         TOTAL TIME 1.98720E+06  33120.      552.00      23.000
6.29706E-02
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  23 IN STRESS PERIOD
2
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    2   TIME STEP   23
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 23,
STRESS PERIOD   2
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 23,
STRESS PERIOD   2
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 23,
STRESS PERIOD   2
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 23,
STRESS PERIOD   2
1
              HEAD IN LAYER   1 AT END OF TIME STEP  23 IN STRESS
PERIOD    2
  ---------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

..................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
```

```
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   23, STRESS
PERIOD    2
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   23,
STRESS PERIOD   2
  ------------------------------------------------------------------
--------------
```

```
     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =         372.0581       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =         372.0581            TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =         371.9832       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =         371.9832           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.4951E-02            IN - OUT =
2.9104E-11

 PERCENT DISCREPANCY =           0.02     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   23 IN STRESS PERIOD
2
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.98720E+06  33120.      552.00      23.000
6.29706E-02
         TOTAL TIME 2.07360E+06  34560.      576.00      24.000
6.57084E-02
1

 SOLVING FOR HEAD
```

```
     1 CALLS TO PCG ROUTINE FOR TIME STEP  24 IN STRESS PERIOD
2
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    2   TIME STEP   24
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 24,
STRESS PERIOD   2
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 24,
STRESS PERIOD   2
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 24,
STRESS PERIOD   2
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 24,
STRESS PERIOD   2
1
              HEAD IN LAYER   1 AT END OF TIME STEP  24 IN STRESS
PERIOD    2
  ------------------------------------------------------------------
-----------

            1            2            3            4            5
6           7            8            9           10
           11           12           13           14

..................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
```

```
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  11   0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
       0.7127      0.7319      0.7510      0.7700
  12   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  13   0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  14   0.5100      0.5320      0.5536      0.5745      0.5948
0.6148      0.6346      0.6543      0.6739      0.6933
       0.7126      0.7319      0.7510      0.7700
  15   0.5100      0.5316      0.5529      0.5738      0.5942
0.6144      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
  16   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6341      0.6539      0.6736      0.6931
       0.7125      0.7318      0.7510      0.7700
  17   0.5100      0.5312      0.5522      0.5730      0.5935
0.6138      0.6339      0.6538      0.6735      0.6930
       0.7125      0.7318      0.7509      0.7700
  18   0.5100      0.5311      0.5521      0.5728      0.5933
0.6136      0.6337      0.6536      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
  19   0.5100      0.5311      0.5520      0.5727      0.5932
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
  20   0.5100      0.5311      0.5519      0.5726      0.5932
0.6135      0.6336      0.6535      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   24, STRESS
PERIOD    2
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   24,
STRESS PERIOD   2
  ----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =         387.5529        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000
```

```
            TOTAL IN =         387.5529               TOTAL IN =
1.7934E-04

          OUT:                                      OUT:
          ----                                      ----
             STORAGE =           0.0000                STORAGE =
0.0000
       CONSTANT HEAD =         387.4779          CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                  WELLS =
0.0000

           TOTAL OUT =         387.4779              TOTAL OUT =
1.7934E-04

            IN - OUT =       7.4982E-02               IN - OUT =
2.9104E-11

 PERCENT DISCREPANCY =             0.02     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   24 IN STRESS PERIOD
2
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.07360E+06  34560.      576.00      24.000
6.57084E-02
         TOTAL TIME 2.16000E+06  36000.      600.00      25.000
6.84463E-02
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  25 IN STRESS PERIOD
2
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    2   TIME STEP   25
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 25,
STRESS PERIOD   2
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 25,
STRESS PERIOD   2
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 25,
STRESS PERIOD   2
```

```
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 25,
STRESS PERIOD   2
1
              HEAD IN LAYER   1 AT END OF TIME STEP  25 IN STRESS
PERIOD    2
  ----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

..................................................................
.....................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  11   0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
       0.7127      0.7319      0.7510      0.7700
  12   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  13   0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  14   0.5100      0.5320      0.5536      0.5745      0.5948
0.6148      0.6346      0.6543      0.6739      0.6933
       0.7126      0.7319      0.7510      0.7700
```

```
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   25, STRESS
PERIOD    2
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   25,
STRESS PERIOD   2
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =         403.0476       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =         403.0476            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =         402.9726       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =         402.9726           TOTAL OUT =
1.7934E-04
```

```
            IN - OUT =       7.5012E-02              IN - OUT =
1.4552E-11

 PERCENT DISCREPANCY =           0.02     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   25 IN STRESS PERIOD
2
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.16000E+06  36000.      600.00      25.000
6.84463E-02
         TOTAL TIME 2.24640E+06  37440.      624.00      26.000
7.11841E-02
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  26 IN STRESS PERIOD
2
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    2   TIME STEP   26
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 26,
STRESS PERIOD   2
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 26,
STRESS PERIOD   2
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 26,
STRESS PERIOD   2
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 26,
STRESS PERIOD   2
1
              HEAD IN LAYER   1 AT END OF TIME STEP   26 IN STRESS
PERIOD    2
  -----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

...................................................................
.......................................................
```

```
   1   0.5100        0.5310        0.5518        0.5725        0.5930
0.6133        0.6334        0.6534        0.6732        0.6928
       0.7123        0.7317        0.7509        0.7700
   2   0.5100        0.5310        0.5519        0.5725        0.5930
0.6133        0.6334        0.6534        0.6732        0.6928
       0.7123        0.7317        0.7509        0.7700
   3   0.5100        0.5311        0.5519        0.5726        0.5931
0.6134        0.6335        0.6535        0.6732        0.6929
       0.7123        0.7317        0.7509        0.7700
   4   0.5100        0.5311        0.5520        0.5727        0.5933
0.6135        0.6336        0.6536        0.6733        0.6929
       0.7124        0.7317        0.7509        0.7700
   5   0.5100        0.5312        0.5522        0.5730        0.5935
0.6137        0.6338        0.6537        0.6734        0.6930
       0.7124        0.7317        0.7509        0.7700
   6   0.5100        0.5314        0.5525        0.5733        0.5938
0.6140        0.6340        0.6539        0.6735        0.6931
       0.7125        0.7318        0.7510        0.7700
   7   0.5100        0.5316        0.5529        0.5737        0.5942
0.6143        0.6343        0.6541        0.6737        0.6932
       0.7126        0.7318        0.7510        0.7700
   8   0.5100        0.5320        0.5536        0.5744        0.5948
0.6148        0.6346        0.6543        0.6738        0.6933
       0.7126        0.7319        0.7510        0.7700
   9   0.5100        0.5326        0.5549        0.5755        0.5955
0.6153        0.6349        0.6545        0.6740        0.6934
       0.7127        0.7319        0.7510        0.7700
  10   0.5100        0.5335        0.5576        0.5772        0.5964
0.6157        0.6352        0.6546        0.6741        0.6934
       0.7127        0.7319        0.7510        0.7700
  11   0.5100      -1.0000E+30   0.5648        0.5791        0.5970
0.6160        0.6353        0.6547        0.6741        0.6935
       0.7127        0.7319        0.7510        0.7700
  12   0.5100        0.5335        0.5576        0.5772        0.5964
0.6157        0.6352        0.6546        0.6741        0.6934
       0.7127        0.7319        0.7510        0.7700
  13   0.5100        0.5326        0.5549        0.5756        0.5955
0.6153        0.6349        0.6545        0.6740        0.6934
       0.7127        0.7319        0.7510        0.7700
  14   0.5100        0.5320        0.5536        0.5745        0.5948
0.6148        0.6346        0.6543        0.6739        0.6933
       0.7126        0.7319        0.7510        0.7700
  15   0.5100        0.5316        0.5529        0.5738        0.5942
0.6144        0.6343        0.6541        0.6737        0.6932
       0.7126        0.7318        0.7510        0.7700
  16   0.5100        0.5314        0.5525        0.5733        0.5938
0.6140        0.6341        0.6539        0.6736        0.6931
       0.7125        0.7318        0.7510        0.7700
  17   0.5100        0.5312        0.5522        0.5730        0.5935
0.6138        0.6339        0.6538        0.6735        0.6930
       0.7125        0.7318        0.7509        0.7700
  18   0.5100        0.5311        0.5521        0.5728        0.5933
0.6136        0.6337        0.6536        0.6734        0.6930
       0.7124        0.7317        0.7509        0.7700
  19   0.5100        0.5311        0.5520        0.5727        0.5932
0.6135        0.6336        0.6536        0.6733        0.6929
```

```
       0.7124      0.7317      0.7509      0.7700
  20   0.5100      0.5311      0.5519      0.5726      0.5932
0.6135      0.6336      0.6535      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   26, STRESS
PERIOD    2
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   26,
STRESS PERIOD   2
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =         418.5424       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =         418.5424            TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =         418.4673       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =         418.4673           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5043E-02            IN - OUT =
1.4552E-11

 PERCENT DISCREPANCY =           0.02     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   26 IN STRESS PERIOD
2
                    SECONDS      MINUTES       HOURS         DAYS
YEARS
```

```
                    ----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.24640E+06  37440.      624.00      26.000
7.11841E-02
         TOTAL TIME 2.33280E+06  38880.      648.00      27.000
7.39220E-02
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  27 IN STRESS PERIOD
2
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    2   TIME STEP   27
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 27,
STRESS PERIOD   2
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 27,
STRESS PERIOD   2
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 27,
STRESS PERIOD   2
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 27,
STRESS PERIOD   2
1
              HEAD IN LAYER   1 AT END OF TIME STEP  27 IN STRESS
PERIOD    2
  ------------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

...................................................................
.......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
```

```
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   27, STRESS
PERIOD    2
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   27,
STRESS PERIOD   2
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
```

```
    ------------------                 ------------------------

          IN:                                     IN:
          ---                                     ---
            STORAGE =           0.0000              STORAGE =
0.0000
      CONSTANT HEAD =         434.0371        CONSTANT HEAD =
1.7934E-04
              WELLS =           0.0000                WELLS =
0.0000

           TOTAL IN =         434.0371             TOTAL IN =
1.7934E-04

         OUT:                                    OUT:
         ----                                    ----
            STORAGE =           0.0000              STORAGE =
0.0000
      CONSTANT HEAD =         433.9620        CONSTANT HEAD =
1.7934E-04
              WELLS =           0.0000                WELLS =
0.0000

          TOTAL OUT =         433.9620            TOTAL OUT =
1.7934E-04

           IN - OUT =       7.5073E-02             IN - OUT =
1.4552E-11

 PERCENT DISCREPANCY =            0.02     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   27 IN STRESS PERIOD
2
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.33280E+06  38880.      648.00      27.000
7.39220E-02
         TOTAL TIME 2.41920E+06  40320.      672.00      28.000
7.66598E-02
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  28 IN STRESS PERIOD
2
     1 TOTAL ITERATIONS
```

```
 OUTPUT CONTROL FOR STRESS PERIOD    2   TIME STEP   28
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 28,
STRESS PERIOD   2
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 28,
STRESS PERIOD   2
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 28,
STRESS PERIOD   2
 UBDSV4 SAVING "            WELLS" ON UNIT 953 AT TIME STEP 28,
STRESS PERIOD   2
1
              HEAD IN LAYER   1 AT END OF TIME STEP  28 IN STRESS
PERIOD    2
  ---------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

.................................................................
.....................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
```

```
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   28, STRESS
PERIOD    2
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   28,
STRESS PERIOD   2
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =         449.5319        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

            TOTAL IN =         449.5319             TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
```

```
          ----                                       ----
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =         449.4568        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

           TOTAL OUT =         449.4568            TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5104E-02             IN - OUT =
1.4552E-11

 PERCENT DISCREPANCY =             0.02     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   28 IN STRESS PERIOD
2
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.41920E+06  40320.      672.00      28.000
7.66598E-02
         TOTAL TIME 2.50560E+06  41760.      696.00      29.000
7.93977E-02
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  29 IN STRESS PERIOD
2
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    2   TIME STEP   29
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 29,
STRESS PERIOD   2
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 29,
STRESS PERIOD   2
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 29,
STRESS PERIOD   2
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 29,
STRESS PERIOD   2
1
```

```
             HEAD IN LAYER   1 AT END OF TIME STEP  29 IN STRESS
PERIOD    2
  ---------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

.................................................................
....................................................
   1    0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
        0.7123      0.7317      0.7509      0.7700
   2    0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
        0.7123      0.7317      0.7509      0.7700
   3    0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
        0.7123      0.7317      0.7509      0.7700
   4    0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
        0.7124      0.7317      0.7509      0.7700
   5    0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
        0.7124      0.7317      0.7509      0.7700
   6    0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
        0.7125      0.7318      0.7510      0.7700
   7    0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
        0.7126      0.7318      0.7510      0.7700
   8    0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
        0.7126      0.7319      0.7510      0.7700
   9    0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
        0.7127      0.7319      0.7510      0.7700
  10    0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
        0.7127      0.7319      0.7510      0.7700
  11    0.5100    -1.0000E+30   0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
        0.7127      0.7319      0.7510      0.7700
  12    0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
        0.7127      0.7319      0.7510      0.7700
  13    0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
        0.7127      0.7319      0.7510      0.7700
  14    0.5100      0.5320      0.5536      0.5745      0.5948
0.6148      0.6346      0.6543      0.6739      0.6933
        0.7126      0.7319      0.7510      0.7700
  15    0.5100      0.5316      0.5529      0.5738      0.5942
0.6144      0.6343      0.6541      0.6737      0.6932
        0.7126      0.7318      0.7510      0.7700
```

```
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   29, STRESS
PERIOD    2
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   29,
STRESS PERIOD   2
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =         465.0266       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =         465.0266            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =         464.9515       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =         464.9515           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5134E-02            IN - OUT =
1.4552E-11
```

```
 PERCENT DISCREPANCY =           0.02     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   29 IN STRESS PERIOD
2
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.50560E+06  41760.      696.00      29.000
7.93977E-02
         TOTAL TIME 2.59200E+06  43200.      720.00      30.000
8.21355E-02
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  30 IN STRESS PERIOD
2
     1 TOTAL ITERATIONS

 MAXIMUM HEAD CHANGE FOR EACH ITERATION (1 INDICATES THE FIRST
INNER ITERATION):

    HEAD CHANGE    HEAD CHANGE    HEAD CHANGE    HEAD CHANGE
HEAD CHANGE
   LAYER,ROW,COL  LAYER,ROW,COL  LAYER,ROW,COL  LAYER,ROW,COL
LAYER,ROW,COL
 ------------------------------------------------------------------
----------
  1  0.1091E-08
   (  1,   4,   7)

 MAXIMUM RESIDUAL FOR EACH ITERATION (1 INDICATES THE FIRST INNER
ITERATION):

    RESIDUAL       RESIDUAL       RESIDUAL       RESIDUAL
RESIDUAL
   LAYER,ROW,COL  LAYER,ROW,COL  LAYER,ROW,COL  LAYER,ROW,COL
LAYER,ROW,COL
 ------------------------------------------------------------------
----------
  1 -0.1532E-11
   (  1, 12,   2)



 OUTPUT CONTROL FOR STRESS PERIOD    2   TIME STEP   30
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
```

```
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 30,
STRESS PERIOD   2
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 30,
STRESS PERIOD   2
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 30,
STRESS PERIOD   2
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 30,
STRESS PERIOD   2
1
              HEAD IN LAYER   1 AT END OF TIME STEP  30 IN STRESS
PERIOD    2
  -----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

.................................................................
.....................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  11   0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
       0.7127      0.7319      0.7510      0.7700
```

```
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   30, STRESS
PERIOD    2
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   30,
STRESS PERIOD   2
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =         480.5214       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =         480.5214            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =
0.0000
```

```
       CONSTANT HEAD =         480.4462          CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                  WELLS =
0.0000

           TOTAL OUT =         480.4462              TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5165E-02               IN - OUT =
1.4552E-11

 PERCENT DISCREPANCY =           0.02     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   30 IN STRESS PERIOD
2
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.59200E+06  43200.      720.00      30.000
8.21355E-02
         TOTAL TIME 2.67840E+06  44640.      744.00      31.000
8.48734E-02
1
1
                            STRESS PERIOD NO.    3, LENGTH =
2678400.
                            --------------------------------------
---------

                              NUMBER OF TIME STEPS =    31

                               MULTIPLIER FOR DELT =     1.000

                            INITIAL TIME STEP SIZE =   86400.00

 WELL NO.  LAYER   ROW   COL   STRESS RATE
 --------------------------------------------------
      1      1     11      2     -100.00

      1 WELL

 SOLVING FOR HEAD


     1 CALLS TO PCG ROUTINE FOR TIME STEP   1 IN STRESS PERIOD
3
     1 TOTAL ITERATIONS
```

```
 OUTPUT CONTROL FOR STRESS PERIOD    3   TIME STEP    1
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  1,
STRESS PERIOD   3
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  1,
STRESS PERIOD   3
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  1,
STRESS PERIOD   3
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  1,
STRESS PERIOD   3
1
              HEAD IN LAYER   1 AT END OF TIME STEP   1 IN STRESS
PERIOD    3
  -------------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

...................................................................
.......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
```

```
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    1, STRESS
PERIOD    3
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    1,
STRESS PERIOD   3
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =         496.0161        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

            TOTAL IN =         496.0161             TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
```

```
          ----                                        ----
             STORAGE =           0.0000                STORAGE =
0.0000
       CONSTANT HEAD =         495.9409          CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                  WELLS =
0.0000

           TOTAL OUT =         495.9409              TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02               IN - OUT =
0.0000

 PERCENT DISCREPANCY =             0.02     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    1 IN STRESS PERIOD
3
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME  86400.      1440.0      24.000     1.00000
2.73785E-03
         TOTAL TIME 2.76480E+06  46080.      768.00      32.000
8.76112E-02
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   2 IN STRESS PERIOD
3
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    3   TIME STEP    2
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  2,
STRESS PERIOD   3
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  2,
STRESS PERIOD   3
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  2,
STRESS PERIOD   3
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  2,
STRESS PERIOD   3
1
```

```
                HEAD IN LAYER   1 AT END OF TIME STEP   2 IN STRESS
PERIOD    3
  ------------------------------------------------------------------
-----------

            1            2            3            4            5
6           7            8            9           10
           11           12           13           14

....................................................................
..................................................................
   1   0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100     -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
```

```
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    2, STRESS
PERIOD    3
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    2,
STRESS PERIOD   3
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =         511.5109         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =         511.5109              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =         511.4357         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =         511.4357             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000
```

```
 PERCENT DISCREPANCY =           0.01     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    2 IN STRESS PERIOD
3
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.72800E+05  2880.0      48.000      2.0000
5.47570E-03
         TOTAL TIME 2.85120E+06  47520.      792.00      33.000
9.03491E-02
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   3 IN STRESS PERIOD
3
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    3   TIME STEP    3
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  3,
STRESS PERIOD   3
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  3,
STRESS PERIOD   3
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  3,
STRESS PERIOD   3
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  3,
STRESS PERIOD   3
1
              HEAD IN LAYER   1 AT END OF TIME STEP   3 IN STRESS
PERIOD    3
  -----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

...................................................................
...............................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
```

```
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
```

```
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    3, STRESS
PERIOD    3
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    3,
STRESS PERIOD   3
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =         527.0056         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =         527.0056              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =         526.9304         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =         526.9304             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.01     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    3 IN STRESS PERIOD
3
                    SECONDS      MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
```

```
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.59200E+05  4320.0      72.000      3.0000
8.21355E-03
         TOTAL TIME 2.93760E+06  48960.      816.00      34.000
9.30869E-02
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   4 IN STRESS PERIOD
3
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    3   TIME STEP    4
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  4,
STRESS PERIOD   3
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  4,
STRESS PERIOD   3
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  4,
STRESS PERIOD   3
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  4,
STRESS PERIOD   3
1
              HEAD IN LAYER   1 AT END OF TIME STEP   4 IN STRESS
PERIOD    3
  ----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

..................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
```

```
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    4, STRESS
PERIOD    3
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    4,
STRESS PERIOD   3
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
```

```
          ---                                        ---
             STORAGE =           0.0000                STORAGE =
0.0000
       CONSTANT HEAD =         542.5004          CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                  WELLS =
0.0000

            TOTAL IN =         542.5004               TOTAL IN =
1.7934E-04

          OUT:                                       OUT:
          ----                                       ----
             STORAGE =           0.0000                STORAGE =
0.0000
       CONSTANT HEAD =         542.4252          CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                  WELLS =
0.0000

           TOTAL OUT =         542.4252              TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02               IN - OUT =
0.0000

 PERCENT DISCREPANCY =             0.01     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    4 IN STRESS PERIOD
3
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 3.45600E+05  5760.0      96.000      4.0000
1.09514E-02
         TOTAL TIME 3.02400E+06  50400.      840.00      35.000
9.58248E-02
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   5 IN STRESS PERIOD
3
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    3   TIME STEP    5
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
```

```
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  5,
STRESS PERIOD   3
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  5,
STRESS PERIOD   3
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  5,
STRESS PERIOD   3
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  5,
STRESS PERIOD   3
1
              HEAD IN LAYER   1 AT END OF TIME STEP   5 IN STRESS
PERIOD    3
  ------------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

..................................................................
.........................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  11   0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
       0.7127      0.7319      0.7510      0.7700
```

```
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    5, STRESS
PERIOD    3
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    5,
STRESS PERIOD   3
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                   IN:
           ---                                   ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =         557.9951       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =         557.9951            TOTAL IN =
1.7934E-04

          OUT:                                  OUT:
          ----                                  ----
             STORAGE =           0.0000             STORAGE =
0.0000
```

```
      CONSTANT HEAD =          557.9199          CONSTANT HEAD =
1.7934E-04
               WELLS =            0.0000                   WELLS =
0.0000

          TOTAL OUT =          557.9199              TOTAL OUT =
1.7934E-04

           IN - OUT =        7.5195E-02               IN - OUT =
0.0000

 PERCENT DISCREPANCY =             0.01     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    5 IN STRESS PERIOD
3
                    SECONDS     MINUTES      HOURS        DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 4.32000E+05  7200.0      120.00      5.0000
1.36893E-02
         TOTAL TIME 3.11040E+06  51840.      864.00      36.000
9.85626E-02
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   6 IN STRESS PERIOD
3
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    3   TIME STEP    6
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  6,
STRESS PERIOD   3
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  6,
STRESS PERIOD   3
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  6,
STRESS PERIOD   3
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  6,
STRESS PERIOD   3
1
              HEAD IN LAYER   1 AT END OF TIME STEP   6 IN STRESS
PERIOD    3
  -----------------------------------------------------------------
-----------
```

```
             1            2            3            4            5
6            7            8            9           10
            11           12           13           14

.....................................................................
.......................................................
   1    0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
        0.7123       0.7317       0.7509       0.7700
   2    0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
        0.7123       0.7317       0.7509       0.7700
   3    0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
        0.7123       0.7317       0.7509       0.7700
   4    0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
        0.7124       0.7317       0.7509       0.7700
   5    0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
        0.7124       0.7317       0.7509       0.7700
   6    0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
        0.7125       0.7318       0.7510       0.7700
   7    0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
        0.7126       0.7318       0.7510       0.7700
   8    0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
        0.7126       0.7319       0.7510       0.7700
   9    0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
        0.7127       0.7319       0.7510       0.7700
  10    0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
        0.7127       0.7319       0.7510       0.7700
  11    0.5100     -1.0000E+30    0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
        0.7127       0.7319       0.7510       0.7700
  12    0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
        0.7127       0.7319       0.7510       0.7700
  13    0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
        0.7127       0.7319       0.7510       0.7700
  14    0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
        0.7126       0.7319       0.7510       0.7700
  15    0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
        0.7126       0.7318       0.7510       0.7700
  16    0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
        0.7125       0.7318       0.7510       0.7700
```

```
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    6, STRESS
PERIOD    3
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    6,
STRESS PERIOD   3
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =           0.0000                STORAGE =
0.0000
       CONSTANT HEAD =         573.4899          CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                  WELLS =
0.0000

            TOTAL IN =         573.4899               TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
             STORAGE =           0.0000                STORAGE =
0.0000
       CONSTANT HEAD =         573.4147          CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                  WELLS =
0.0000

           TOTAL OUT =         573.4147              TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02               IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.01     PERCENT DISCREPANCY =
0.00
```

```
        TIME SUMMARY AT END OF TIME STEP    6 IN STRESS PERIOD
3
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 5.18400E+05  8640.0      144.00      6.0000
1.64271E-02
         TOTAL TIME 3.19680E+06  53280.      888.00      37.000
0.10130
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   7 IN STRESS PERIOD
3
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    3   TIME STEP    7
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  7,
STRESS PERIOD   3
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  7,
STRESS PERIOD   3
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  7,
STRESS PERIOD   3
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  7,
STRESS PERIOD   3
1
              HEAD IN LAYER   1 AT END OF TIME STEP   7 IN STRESS
PERIOD    3
  ----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

..................................................................
...........................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
```

```
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135      0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137      0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140      0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143      0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148      0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153      0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157      0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100     -1.0000E+30  0.5648       0.5791       0.5970
0.6160      0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157      0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153      0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148      0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144      0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140      0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138      0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136      0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135      0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135      0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    7, STRESS
PERIOD    3
1
```

```
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    7,
STRESS PERIOD   3
  -------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =         588.9846       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =         588.9846            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =         588.9094       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =         588.9094           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02            IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.01     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    7 IN STRESS PERIOD
3
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 6.04800E+05  10080.      168.00      7.0000
1.91650E-02
         TOTAL TIME 3.28320E+06  54720.      912.00      38.000
0.10404
```

```
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   8 IN STRESS PERIOD
3
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    3   TIME STEP    8
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  8,
STRESS PERIOD   3
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  8,
STRESS PERIOD   3
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  8,
STRESS PERIOD   3
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  8,
STRESS PERIOD   3
1
              HEAD IN LAYER   1 AT END OF TIME STEP   8 IN STRESS
PERIOD    3
  ----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

..................................................................
.......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
```

```
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    8, STRESS
PERIOD    3
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    8,
STRESS PERIOD   3
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =            0.0000             STORAGE =
0.0000
       CONSTANT HEAD =          604.4794       CONSTANT HEAD =
1.7934E-04
```

```
               WELLS =            0.0000                  WELLS =
0.0000

            TOTAL IN =          604.4794               TOTAL IN =
1.7934E-04

          OUT:                                      OUT:
          ----                                      ----
             STORAGE =            0.0000                STORAGE =
0.0000
       CONSTANT HEAD =          604.4042          CONSTANT HEAD =
1.7934E-04
               WELLS =            0.0000                  WELLS =
0.0000

           TOTAL OUT =          604.4042              TOTAL OUT =
1.7934E-04

            IN - OUT =        7.5195E-02               IN - OUT =
0.0000

 PERCENT DISCREPANCY =            0.01     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    8 IN STRESS PERIOD
3
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 6.91200E+05  11520.      192.00      8.0000
2.19028E-02
         TOTAL TIME 3.36960E+06  56160.      936.00      39.000
0.10678
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   9 IN STRESS PERIOD
3
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    3   TIME STEP    9
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  9,
STRESS PERIOD   3
```

```
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  9,
STRESS PERIOD   3
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  9,
STRESS PERIOD   3
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  9,
STRESS PERIOD   3
1
              HEAD IN LAYER   1 AT END OF TIME STEP   9 IN STRESS
PERIOD    3
  ------------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

....................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  11   0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
       0.7127      0.7319      0.7510      0.7700
  12   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  13   0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
```

```
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    9, STRESS
PERIOD    3
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    9,
STRESS PERIOD   3
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =         619.9741         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =         619.9741              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =         619.8989         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000
```

```
           TOTAL OUT =         619.8989             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =            0.01     PERCENT DISCREPANCY =
0.00





         TIME SUMMARY AT END OF TIME STEP    9 IN STRESS PERIOD
3
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 7.77600E+05  12960.      216.00      9.0000
2.46407E-02
         TOTAL TIME 3.45600E+06  57600.      960.00      40.000
0.10951
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  10 IN STRESS PERIOD
3
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    3   TIME STEP   10
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 10,
STRESS PERIOD   3
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 10,
STRESS PERIOD   3
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 10,
STRESS PERIOD   3
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 10,
STRESS PERIOD   3
1
              HEAD IN LAYER   1 AT END OF TIME STEP  10 IN STRESS
PERIOD    3
  ---------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14
```

```
..........................................................................
.....................................................
   1  0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
      0.7123       0.7317       0.7509       0.7700
   2  0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
      0.7123       0.7317       0.7509       0.7700
   3  0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
      0.7123       0.7317       0.7509       0.7700
   4  0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
      0.7124       0.7317       0.7509       0.7700
   5  0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
      0.7124       0.7317       0.7509       0.7700
   6  0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
      0.7125       0.7318       0.7510       0.7700
   7  0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
      0.7126       0.7318       0.7510       0.7700
   8  0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
      0.7126       0.7319       0.7510       0.7700
   9  0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
      0.7127       0.7319       0.7510       0.7700
  10  0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
      0.7127       0.7319       0.7510       0.7700
  11  0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
      0.7127       0.7319       0.7510       0.7700
  12  0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
      0.7127       0.7319       0.7510       0.7700
  13  0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
      0.7127       0.7319       0.7510       0.7700
  14  0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
      0.7126       0.7319       0.7510       0.7700
  15  0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
      0.7126       0.7318       0.7510       0.7700
  16  0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
      0.7125       0.7318       0.7510       0.7700
  17  0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
      0.7125       0.7318       0.7509       0.7700
  18  0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
```

```
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   10, STRESS
PERIOD    3
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   10,
STRESS PERIOD   3
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =         635.4689         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =         635.4689              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =         635.3937         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =         635.3937             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.01     PERCENT DISCREPANCY =
0.00
```

```
         TIME SUMMARY AT END OF TIME STEP   10 IN STRESS PERIOD
3
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 8.64000E+05  14400.      240.00     10.0000
2.73785E-02
         TOTAL TIME 3.54240E+06  59040.      984.00      41.000
0.11225
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  11 IN STRESS PERIOD
3
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    3   TIME STEP   11
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 11,
STRESS PERIOD   3
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 11,
STRESS PERIOD   3
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 11,
STRESS PERIOD   3
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 11,
STRESS PERIOD   3
1
              HEAD IN LAYER   1 AT END OF TIME STEP   11 IN STRESS
PERIOD    3
  ---------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

.................................................................
.....................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
```

```
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   11, STRESS
PERIOD    3
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   11,
STRESS PERIOD   3
  ------------------------------------------------------------------
--------------
```

```
     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =         650.9636       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =         650.9636            TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =         650.8884       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =         650.8884           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02            IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.01     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   11 IN STRESS PERIOD
3
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 9.50400E+05  15840.      264.00      11.000
3.01164E-02
         TOTAL TIME 3.62880E+06  60480.      1008.0      42.000
0.11499
1

 SOLVING FOR HEAD
```

```
     1 CALLS TO PCG ROUTINE FOR TIME STEP  12 IN STRESS PERIOD
3
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    3   TIME STEP   12
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 12,
STRESS PERIOD   3
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 12,
STRESS PERIOD   3
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 12,
STRESS PERIOD   3
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 12,
STRESS PERIOD   3
1
              HEAD IN LAYER   1 AT END OF TIME STEP  12 IN STRESS
PERIOD    3
  ------------------------------------------------------------------
-----------

            1            2            3            4            5
6           7            8            9           10
           11           12           13           14

..................................................................
......................................................
   1   0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
```

```
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   12, STRESS
PERIOD    3
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   12,
STRESS PERIOD   3
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =         666.4584        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000
```

```
           TOTAL IN =         666.4584               TOTAL IN =
1.7934E-04

          OUT:                                      OUT:
          ----                                      ----
            STORAGE =           0.0000                STORAGE =
0.0000
      CONSTANT HEAD =         666.3832          CONSTANT HEAD =
1.7934E-04
              WELLS =           0.0000                  WELLS =
0.0000

          TOTAL OUT =         666.3832              TOTAL OUT =
1.7934E-04

           IN - OUT =       7.5195E-02               IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.01     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   12 IN STRESS PERIOD
3
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.03680E+06  17280.      288.00      12.000
3.28542E-02
         TOTAL TIME 3.71520E+06  61920.      1032.0      43.000
0.11773
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  13 IN STRESS PERIOD
3
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    3   TIME STEP   13
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 13,
STRESS PERIOD   3
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 13,
STRESS PERIOD   3
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 13,
STRESS PERIOD   3
```

```
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 13,
STRESS PERIOD   3
1
                HEAD IN LAYER   1 AT END OF TIME STEP  13 IN STRESS
PERIOD    3
  -----------------------------------------------------------------
-----------

             1            2            3            4            5
6            7            8            9           10
            11           12           13           14

...................................................................
.......................................................
   1    0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
        0.7123       0.7317       0.7509       0.7700
   2    0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
        0.7123       0.7317       0.7509       0.7700
   3    0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
        0.7123       0.7317       0.7509       0.7700
   4    0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
        0.7124       0.7317       0.7509       0.7700
   5    0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
        0.7124       0.7317       0.7509       0.7700
   6    0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
        0.7125       0.7318       0.7510       0.7700
   7    0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
        0.7126       0.7318       0.7510       0.7700
   8    0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
        0.7126       0.7319       0.7510       0.7700
   9    0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
        0.7127       0.7319       0.7510       0.7700
  10    0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
        0.7127       0.7319       0.7510       0.7700
  11    0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
        0.7127       0.7319       0.7510       0.7700
  12    0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
        0.7127       0.7319       0.7510       0.7700
  13    0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
        0.7127       0.7319       0.7510       0.7700
  14    0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
        0.7126       0.7319       0.7510       0.7700
```

```
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   13, STRESS
PERIOD    3
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   13,
STRESS PERIOD   3
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =         681.9531         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =         681.9531              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =         681.8779         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =         681.8779             TOTAL OUT =
1.7934E-04
```

```
            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.01     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   13 IN STRESS PERIOD
3
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.12320E+06  18720.      312.00      13.000
3.55921E-02
         TOTAL TIME 3.80160E+06  63360.      1056.0      44.000
0.12047
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  14 IN STRESS PERIOD
3
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    3   TIME STEP   14
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 14,
STRESS PERIOD   3
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 14,
STRESS PERIOD   3
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 14,
STRESS PERIOD   3
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 14,
STRESS PERIOD   3
1
              HEAD IN LAYER   1 AT END OF TIME STEP  14 IN STRESS
PERIOD    3
  -----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

...................................................................
......................................................
```

```
   1   0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
```

```
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   14, STRESS
PERIOD    3
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   14,
STRESS PERIOD   3
  ----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =         697.4479       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =         697.4479            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =         697.3727       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =         697.3727           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02            IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.01     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   14 IN STRESS PERIOD
3
                    SECONDS      MINUTES       HOURS        DAYS
YEARS
```

```
                    ---------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.20960E+06  20160.      336.00      14.000
3.83299E-02
         TOTAL TIME 3.88800E+06  64800.      1080.0      45.000
0.12320
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  15 IN STRESS PERIOD
3
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    3   TIME STEP   15
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 15,
STRESS PERIOD   3
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 15,
STRESS PERIOD   3
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 15,
STRESS PERIOD   3
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 15,
STRESS PERIOD   3
1
              HEAD IN LAYER   1 AT END OF TIME STEP  15 IN STRESS
PERIOD    3
  ------------------------------------------------------------------
-----------

          1           2           3           4           5
6         7           8           9          10
         11          12          13          14

..................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
```

```
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   15, STRESS
PERIOD    3
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   15,
STRESS PERIOD   3
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
```

```
     ------------------                 ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =         712.9426       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =         712.9426            TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =         712.8674       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =         712.8674           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02            IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.01     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   15 IN STRESS PERIOD
3
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.29600E+06  21600.      360.00      15.000
4.10678E-02
         TOTAL TIME 3.97440E+06  66240.      1104.0      46.000
0.12594
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  16 IN STRESS PERIOD
3
     1 TOTAL ITERATIONS
```

```
 OUTPUT CONTROL FOR STRESS PERIOD    3   TIME STEP   16
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 16,
STRESS PERIOD   3
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 16,
STRESS PERIOD   3
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 16,
STRESS PERIOD   3
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 16,
STRESS PERIOD   3
1
              HEAD IN LAYER   1 AT END OF TIME STEP  16 IN STRESS
PERIOD    3
  -----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

...................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
```

```
  11   0.5100     -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   16, STRESS
PERIOD    3
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   16,
STRESS PERIOD   3
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                   IN:
           ---                                   ---
             STORAGE =           0.0000            STORAGE =
0.0000
       CONSTANT HEAD =         728.4374      CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000              WELLS =
0.0000

            TOTAL IN =         728.4374           TOTAL IN =
1.7934E-04

          OUT:                                  OUT:
```

```
          ----                                       ----
             STORAGE =            0.0000                STORAGE =
0.0000
       CONSTANT HEAD =          728.3622          CONSTANT HEAD =
1.7934E-04
               WELLS =            0.0000                  WELLS =
0.0000

           TOTAL OUT =          728.3622              TOTAL OUT =
1.7934E-04

            IN - OUT =        7.5195E-02               IN - OUT =
0.0000

 PERCENT DISCREPANCY =              0.01     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   16 IN STRESS PERIOD
3
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.38240E+06  23040.      384.00      16.000
4.38056E-02
         TOTAL TIME 4.06080E+06  67680.      1128.0      47.000
0.12868
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  17 IN STRESS PERIOD
3
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    3   TIME STEP   17
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 17,
STRESS PERIOD   3
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 17,
STRESS PERIOD   3
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 17,
STRESS PERIOD   3
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 17,
STRESS PERIOD   3
1
```

```
               HEAD IN LAYER   1 AT END OF TIME STEP  17 IN STRESS
PERIOD    3
  ---------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

.................................................................
.....................................................
   1    0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
        0.7123      0.7317      0.7509      0.7700
   2    0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
        0.7123      0.7317      0.7509      0.7700
   3    0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
        0.7123      0.7317      0.7509      0.7700
   4    0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
        0.7124      0.7317      0.7509      0.7700
   5    0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
        0.7124      0.7317      0.7509      0.7700
   6    0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
        0.7125      0.7318      0.7510      0.7700
   7    0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
        0.7126      0.7318      0.7510      0.7700
   8    0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
        0.7126      0.7319      0.7510      0.7700
   9    0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
        0.7127      0.7319      0.7510      0.7700
  10    0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
        0.7127      0.7319      0.7510      0.7700
  11    0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
        0.7127      0.7319      0.7510      0.7700
  12    0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
        0.7127      0.7319      0.7510      0.7700
  13    0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
        0.7127      0.7319      0.7510      0.7700
  14    0.5100      0.5320      0.5536      0.5745      0.5948
0.6148      0.6346      0.6543      0.6739      0.6933
        0.7126      0.7319      0.7510      0.7700
  15    0.5100      0.5316      0.5529      0.5738      0.5942
0.6144      0.6343      0.6541      0.6737      0.6932
        0.7126      0.7318      0.7510      0.7700
```

```
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   17, STRESS
PERIOD    3
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   17,
STRESS PERIOD   3
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =         743.9321       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =         743.9321            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =         743.8569       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =         743.8569           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02            IN - OUT =
0.0000
```

```
 PERCENT DISCREPANCY =           0.01     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   17 IN STRESS PERIOD
3
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.46880E+06  24480.      408.00      17.000
4.65435E-02
         TOTAL TIME 4.14720E+06  69120.      1152.0      48.000
0.13142
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  18 IN STRESS PERIOD
3
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    3   TIME STEP   18
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 18,
STRESS PERIOD   3
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 18,
STRESS PERIOD   3
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 18,
STRESS PERIOD   3
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 18,
STRESS PERIOD   3
1
              HEAD IN LAYER   1 AT END OF TIME STEP  18 IN STRESS
PERIOD    3
  ----------------------------------------------------------------
-----------

            1           2           3           4            5
6           7           8           9          10
           11          12          13          14

...................................................................
.....................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
```

```
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
```

```
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   18, STRESS
PERIOD    3
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   18,
STRESS PERIOD   3
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =         759.4269       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =         759.4269            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =         759.3517       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =         759.3517           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02            IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.01     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   18 IN STRESS PERIOD
3
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
```

```
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.55520E+06  25920.      432.00      18.000
4.92813E-02
         TOTAL TIME 4.23360E+06  70560.      1176.0      49.000
0.13415
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  19 IN STRESS PERIOD
3
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    3   TIME STEP   19
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 19,
STRESS PERIOD   3
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 19,
STRESS PERIOD   3
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 19,
STRESS PERIOD   3
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 19,
STRESS PERIOD   3
1
              HEAD IN LAYER   1 AT END OF TIME STEP  19 IN STRESS
PERIOD    3
  ----------------------------------------------------------------
-----------

           1           2           3           4           5
6           7           8           9          10
          11          12          13          14

.................................................................
.....................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
```

```
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   19, STRESS
PERIOD    3
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   19,
STRESS PERIOD   3
  ----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
```

```
          ---                                      ---
             STORAGE =          0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        774.9216        CONSTANT HEAD =
1.7934E-04
               WELLS =          0.0000                WELLS =
0.0000

            TOTAL IN =        774.9216             TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =          0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        774.8464        CONSTANT HEAD =
1.7934E-04
               WELLS =          0.0000                WELLS =
0.0000

           TOTAL OUT =        774.8464            TOTAL OUT =
1.7934E-04

            IN - OUT =      7.5195E-02             IN - OUT =
0.0000

 PERCENT DISCREPANCY =          0.01     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   19 IN STRESS PERIOD
3
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.64160E+06  27360.      456.00      19.000
5.20192E-02
         TOTAL TIME 4.32000E+06  72000.      1200.0      50.000
0.13689
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  20 IN STRESS PERIOD
3
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    3   TIME STEP   20
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
```

```
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 20,
STRESS PERIOD   3
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 20,
STRESS PERIOD   3
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 20,
STRESS PERIOD   3
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 20,
STRESS PERIOD   3
1
              HEAD IN LAYER   1 AT END OF TIME STEP  20 IN STRESS
PERIOD    3
  ------------------------------------------------------------------
-----------

           1            2            3            4            5
6          7            8            9           10
          11           12           13           14

...................................................................
.....................................................
   1   0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100     -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
```

```
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   20, STRESS
PERIOD    3
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   20,
STRESS PERIOD   3
  ----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =         790.4164        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

            TOTAL IN =         790.4164             TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
             STORAGE =           0.0000              STORAGE =
0.0000
```

```
       CONSTANT HEAD =         790.3412         CONSTANT HEAD =
1.7934E-04
                WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =         790.3412             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =             0.01     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   20 IN STRESS PERIOD
3
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.72800E+06  28800.      480.00      20.000
5.47570E-02
         TOTAL TIME 4.40640E+06  73440.      1224.0      51.000
0.13963
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  21 IN STRESS PERIOD
3
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    3   TIME STEP   21
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 21,
STRESS PERIOD   3
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 21,
STRESS PERIOD   3
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 21,
STRESS PERIOD   3
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 21,
STRESS PERIOD   3
1
              HEAD IN LAYER   1 AT END OF TIME STEP   21 IN STRESS
PERIOD    3
  -----------------------------------------------------------------
-----------
```

```
              1              2              3              4              5
6             7              8              9             10
             11             12             13             14

.....................................................................
.........................................................
   1    0.5100         0.5310         0.5518         0.5725         0.5930
0.6133         0.6334         0.6534         0.6732         0.6928
        0.7123         0.7317         0.7509         0.7700
   2    0.5100         0.5310         0.5519         0.5725         0.5930
0.6133         0.6334         0.6534         0.6732         0.6928
        0.7123         0.7317         0.7509         0.7700
   3    0.5100         0.5311         0.5519         0.5726         0.5931
0.6134         0.6335         0.6535         0.6732         0.6929
        0.7123         0.7317         0.7509         0.7700
   4    0.5100         0.5311         0.5520         0.5727         0.5933
0.6135         0.6336         0.6536         0.6733         0.6929
        0.7124         0.7317         0.7509         0.7700
   5    0.5100         0.5312         0.5522         0.5730         0.5935
0.6137         0.6338         0.6537         0.6734         0.6930
        0.7124         0.7317         0.7509         0.7700
   6    0.5100         0.5314         0.5525         0.5733         0.5938
0.6140         0.6340         0.6539         0.6735         0.6931
        0.7125         0.7318         0.7510         0.7700
   7    0.5100         0.5316         0.5529         0.5737         0.5942
0.6143         0.6343         0.6541         0.6737         0.6932
        0.7126         0.7318         0.7510         0.7700
   8    0.5100         0.5320         0.5536         0.5744         0.5948
0.6148         0.6346         0.6543         0.6738         0.6933
        0.7126         0.7319         0.7510         0.7700
   9    0.5100         0.5326         0.5549         0.5755         0.5955
0.6153         0.6349         0.6545         0.6740         0.6934
        0.7127         0.7319         0.7510         0.7700
  10    0.5100         0.5335         0.5576         0.5772         0.5964
0.6157         0.6352         0.6546         0.6741         0.6934
        0.7127         0.7319         0.7510         0.7700
  11    0.5100        -1.0000E+30    0.5648         0.5791         0.5970
0.6160         0.6353         0.6547         0.6741         0.6935
        0.7127         0.7319         0.7510         0.7700
  12    0.5100         0.5335         0.5576         0.5772         0.5964
0.6157         0.6352         0.6546         0.6741         0.6934
        0.7127         0.7319         0.7510         0.7700
  13    0.5100         0.5326         0.5549         0.5756         0.5955
0.6153         0.6349         0.6545         0.6740         0.6934
        0.7127         0.7319         0.7510         0.7700
  14    0.5100         0.5320         0.5536         0.5745         0.5948
0.6148         0.6346         0.6543         0.6739         0.6933
        0.7126         0.7319         0.7510         0.7700
  15    0.5100         0.5316         0.5529         0.5738         0.5942
0.6144         0.6343         0.6541         0.6737         0.6932
        0.7126         0.7318         0.7510         0.7700
  16    0.5100         0.5314         0.5525         0.5733         0.5938
0.6140         0.6341         0.6539         0.6736         0.6931
        0.7125         0.7318         0.7510         0.7700
```

```
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   21, STRESS
PERIOD    3
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   21,
STRESS PERIOD   3
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =         805.9111       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =         805.9111            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =         805.8359       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =         805.8359           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02            IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.01     PERCENT DISCREPANCY =
0.00
```

```
         TIME SUMMARY AT END OF TIME STEP   21 IN STRESS PERIOD
3
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.81440E+06  30240.      504.00      21.000
5.74949E-02
         TOTAL TIME 4.49280E+06  74880.      1248.0      52.000
0.14237
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  22 IN STRESS PERIOD
3
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    3   TIME STEP   22
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 22,
STRESS PERIOD   3
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 22,
STRESS PERIOD   3
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 22,
STRESS PERIOD   3
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 22,
STRESS PERIOD   3
1
              HEAD IN LAYER   1 AT END OF TIME STEP  22 IN STRESS
PERIOD    3
  -----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

...................................................................
.....................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
```

```
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135      0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137      0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140      0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143      0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148      0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153      0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157      0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100     -1.0000E+30  0.5648       0.5791       0.5970
0.6160      0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157      0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153      0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148      0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144      0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140      0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138      0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136      0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135      0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135      0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   22, STRESS
PERIOD    3
1
```

```
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   22,
STRESS PERIOD   3
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =         821.4059         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =         821.4059              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =         821.3307         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =         821.3307             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.01     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   22 IN STRESS PERIOD
3
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.90080E+06  31680.      528.00      22.000
6.02327E-02
         TOTAL TIME 4.57920E+06  76320.      1272.0      53.000
0.14511
```

```
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  23 IN STRESS PERIOD
3
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    3   TIME STEP   23
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 23,
STRESS PERIOD   3
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 23,
STRESS PERIOD   3
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 23,
STRESS PERIOD   3
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 23,
STRESS PERIOD   3
1
              HEAD IN LAYER   1 AT END OF TIME STEP  23 IN STRESS
PERIOD    3
  -----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

...................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
```

```
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   23, STRESS
PERIOD    3
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   23,
STRESS PERIOD   3
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =         836.9006         CONSTANT HEAD =
1.7934E-04
```

```
                WELLS =          0.0000                     WELLS =
0.0000

             TOTAL IN =        836.9006                  TOTAL IN =
1.7934E-04

          OUT:                                      OUT:
          ----                                      ----
              STORAGE =          0.0000                   STORAGE =
0.0000
        CONSTANT HEAD =        836.8254             CONSTANT HEAD =
1.7934E-04
                WELLS =          0.0000                     WELLS =
0.0000

            TOTAL OUT =        836.8254                 TOTAL OUT =
1.7934E-04

             IN - OUT =      7.5195E-02                  IN - OUT =
0.0000

  PERCENT DISCREPANCY =            0.01     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   23 IN STRESS PERIOD
3
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.98720E+06  33120.      552.00      23.000
6.29706E-02
         TOTAL TIME 4.66560E+06  77760.      1296.0      54.000
0.14784
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  24 IN STRESS PERIOD
3
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    3   TIME STEP   24
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 24,
STRESS PERIOD   3
```

```
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 24,
STRESS PERIOD   3
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 24,
STRESS PERIOD   3
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 24,
STRESS PERIOD   3
1
              HEAD IN LAYER   1 AT END OF TIME STEP  24 IN STRESS
PERIOD    3
  ---------------------------------------------------------------
-----------

            1            2            3            4            5
6           7            8            9           10
           11           12           13           14

.................................................................
.....................................................
   1   0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100     -1.0000E+30    0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
```

```
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   24, STRESS
PERIOD    3
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   24,
STRESS PERIOD   3
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                   IN:
           ---                                   ---
             STORAGE =           0.0000                STORAGE =
0.0000
       CONSTANT HEAD =         852.3954          CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                  WELLS =
0.0000

            TOTAL IN =         852.3954               TOTAL IN =
1.7934E-04

          OUT:                                  OUT:
          ----                                  ----
             STORAGE =           0.0000                STORAGE =
0.0000
       CONSTANT HEAD =         852.3202          CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                  WELLS =
0.0000
```

```
            TOTAL OUT =         852.3202             TOTAL OUT =
1.7934E-04

             IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.01     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   24 IN STRESS PERIOD
3
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.07360E+06  34560.      576.00      24.000
6.57084E-02
         TOTAL TIME 4.75200E+06  79200.      1320.0      55.000
0.15058
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  25 IN STRESS PERIOD
3
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    3   TIME STEP   25
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 25,
STRESS PERIOD   3
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 25,
STRESS PERIOD   3
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 25,
STRESS PERIOD   3
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 25,
STRESS PERIOD   3
1
              HEAD IN LAYER   1 AT END OF TIME STEP  25 IN STRESS
PERIOD    3
  -----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14
```

```
.........................................................................
...........................................................
   1  0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
      0.7123       0.7317       0.7509       0.7700
   2  0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
      0.7123       0.7317       0.7509       0.7700
   3  0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
      0.7123       0.7317       0.7509       0.7700
   4  0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
      0.7124       0.7317       0.7509       0.7700
   5  0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
      0.7124       0.7317       0.7509       0.7700
   6  0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
      0.7125       0.7318       0.7510       0.7700
   7  0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
      0.7126       0.7318       0.7510       0.7700
   8  0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
      0.7126       0.7319       0.7510       0.7700
   9  0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
      0.7127       0.7319       0.7510       0.7700
  10  0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
      0.7127       0.7319       0.7510       0.7700
  11  0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
      0.7127       0.7319       0.7510       0.7700
  12  0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
      0.7127       0.7319       0.7510       0.7700
  13  0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
      0.7127       0.7319       0.7510       0.7700
  14  0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
      0.7126       0.7319       0.7510       0.7700
  15  0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
      0.7126       0.7318       0.7510       0.7700
  16  0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
      0.7125       0.7318       0.7510       0.7700
  17  0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
      0.7125       0.7318       0.7509       0.7700
  18  0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
```

```
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   25, STRESS
PERIOD    3
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   25,
STRESS PERIOD   3
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =         867.8901        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

            TOTAL IN =         867.8901             TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =         867.8149        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

           TOTAL OUT =         867.8149            TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02             IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.01     PERCENT DISCREPANCY =
0.00
```

```
         TIME SUMMARY AT END OF TIME STEP   25 IN STRESS PERIOD
3
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.16000E+06  36000.      600.00      25.000
6.84463E-02
         TOTAL TIME 4.83840E+06  80640.      1344.0      56.000
0.15332
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  26 IN STRESS PERIOD
3
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    3   TIME STEP   26
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 26,
STRESS PERIOD   3
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 26,
STRESS PERIOD   3
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 26,
STRESS PERIOD   3
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 26,
STRESS PERIOD   3
1
              HEAD IN LAYER   1 AT END OF TIME STEP   26 IN STRESS
PERIOD    3
  -----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

...................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
```

```
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   26, STRESS
PERIOD    3
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   26,
STRESS PERIOD   3
  ------------------------------------------------------------------
--------------
```

```
     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =         883.3849        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

            TOTAL IN =         883.3849             TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =         883.3097        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

           TOTAL OUT =         883.3097            TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02             IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.01     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   26 IN STRESS PERIOD
3
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.24640E+06  37440.      624.00      26.000
7.11841E-02
         TOTAL TIME 4.92480E+06  82080.      1368.0      57.000
0.15606
1

 SOLVING FOR HEAD
```

```
     1 CALLS TO PCG ROUTINE FOR TIME STEP  27 IN STRESS PERIOD
3
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    3   TIME STEP   27
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 27,
STRESS PERIOD   3
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 27,
STRESS PERIOD   3
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 27,
STRESS PERIOD   3
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 27,
STRESS PERIOD   3
1
              HEAD IN LAYER   1 AT END OF TIME STEP  27 IN STRESS
PERIOD    3
  -----------------------------------------------------------------
-----------

            1            2            3            4            5
6           7            8            9           10
           11           12           13           14

...................................................................
.......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
```

```
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   27, STRESS
PERIOD    3
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   27,
STRESS PERIOD   3
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =         898.8796       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000
```

```
            TOTAL IN =         898.8796              TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =         898.8044         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =         898.8044             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =             0.01     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   27 IN STRESS PERIOD
3
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.33280E+06  38880.      648.00      27.000
7.39220E-02
         TOTAL TIME 5.01120E+06  83520.      1392.0      58.000
0.15880
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  28 IN STRESS PERIOD
3
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    3   TIME STEP   28
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 28,
STRESS PERIOD   3
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 28,
STRESS PERIOD   3
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 28,
STRESS PERIOD   3
```

```
 UBDSV4 SAVING "          WELLS" ON UNIT 953 AT TIME STEP 28,
STRESS PERIOD   3
1
              HEAD IN LAYER   1 AT END OF TIME STEP  28 IN STRESS
PERIOD    3
  -----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

..................................................................
.......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  11   0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
       0.7127      0.7319      0.7510      0.7700
  12   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  13   0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  14   0.5100      0.5320      0.5536      0.5745      0.5948
0.6148      0.6346      0.6543      0.6739      0.6933
       0.7126      0.7319      0.7510      0.7700
```

```
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   28, STRESS
PERIOD    3
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   28,
STRESS PERIOD   3
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =         914.3744       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =         914.3744            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =         914.2992       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =         914.2992           TOTAL OUT =
1.7934E-04
```

```
            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.01     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   28 IN STRESS PERIOD
3
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.41920E+06  40320.      672.00      28.000
7.66598E-02
         TOTAL TIME 5.09760E+06  84960.      1416.0      59.000
0.16153
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  29 IN STRESS PERIOD
3
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    3   TIME STEP   29
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 29,
STRESS PERIOD   3
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 29,
STRESS PERIOD   3
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 29,
STRESS PERIOD   3
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 29,
STRESS PERIOD   3
1
              HEAD IN LAYER   1 AT END OF TIME STEP   29 IN STRESS
PERIOD    3
  ---------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

.................................................................
......................................................
```

```
   1   0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100     -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
```

```
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   29, STRESS
PERIOD    3
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   29,
STRESS PERIOD   3
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =         929.8691         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =         929.8691              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =         929.7939         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =         929.7939             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =             0.01     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   29 IN STRESS PERIOD
3
                    SECONDS      MINUTES       HOURS        DAYS
YEARS
```

```
                    ----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.50560E+06  41760.      696.00      29.000
7.93977E-02
         TOTAL TIME 5.18400E+06  86400.      1440.0      60.000
0.16427
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  30 IN STRESS PERIOD
3
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    3   TIME STEP   30
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 30,
STRESS PERIOD   3
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 30,
STRESS PERIOD   3
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 30,
STRESS PERIOD   3
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 30,
STRESS PERIOD   3
1
              HEAD IN LAYER   1 AT END OF TIME STEP  30 IN STRESS
PERIOD    3
  ------------------------------------------------------------------
-----------

          1           2           3           4           5
6         7           8           9          10
         11          12          13          14

....................................................................
.....................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
```

```
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   30, STRESS
PERIOD    3
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   30,
STRESS PERIOD   3
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
```

```
     ------------------                 ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =         945.3639        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

            TOTAL IN =         945.3639             TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =         945.2887        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

           TOTAL OUT =         945.2887            TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02             IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.01     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   30 IN STRESS PERIOD
3
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.59200E+06  43200.      720.00      30.000
8.21355E-02
         TOTAL TIME 5.27040E+06  87840.      1464.0      61.000
0.16701
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   31 IN STRESS PERIOD
3
     1 TOTAL ITERATIONS
```

```
 MAXIMUM HEAD CHANGE FOR EACH ITERATION (1 INDICATES THE FIRST
INNER ITERATION):

    HEAD CHANGE    HEAD CHANGE    HEAD CHANGE    HEAD CHANGE
HEAD CHANGE
   LAYER,ROW,COL  LAYER,ROW,COL  LAYER,ROW,COL  LAYER,ROW,COL
LAYER,ROW,COL
 ------------------------------------------------------------------
----------
  1 -0.3627E-14
   (  1,   5,   9)

 MAXIMUM RESIDUAL FOR EACH ITERATION (1 INDICATES THE FIRST INNER
ITERATION):

    RESIDUAL       RESIDUAL       RESIDUAL       RESIDUAL
RESIDUAL
   LAYER,ROW,COL  LAYER,ROW,COL  LAYER,ROW,COL  LAYER,ROW,COL
LAYER,ROW,COL
 ------------------------------------------------------------------
----------
  1 -0.5436E-17
   (  1, 12,   2)



 OUTPUT CONTROL FOR STRESS PERIOD    3   TIME STEP   31
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 31,
STRESS PERIOD   3
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 31,
STRESS PERIOD   3
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 31,
STRESS PERIOD   3
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 31,
STRESS PERIOD   3
1
              HEAD IN LAYER   1 AT END OF TIME STEP   31 IN STRESS
PERIOD    3
  -----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

...................................................................
...............................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
```

```
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
```

HEAD WILL BE SAVED ON UNIT 51 AT END OF TIME STEP 31, STRESS PERIOD 3
1
VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP 31, STRESS PERIOD 3

CUMULATIVE VOLUMES L**3 RATES FOR THIS TIME STEP L**3/T
------------------ ------------------------

IN: IN:
--- ---
STORAGE = 0.0000 STORAGE = 0.0000
CONSTANT HEAD = 960.8586 CONSTANT HEAD = 1.7934E-04
WELLS = 0.0000 WELLS = 0.0000

TOTAL IN = 960.8586 TOTAL IN = 1.7934E-04

OUT: OUT:
---- ----
STORAGE = 0.0000 STORAGE = 0.0000
CONSTANT HEAD = 960.7834 CONSTANT HEAD = 1.7934E-04
WELLS = 0.0000 WELLS = 0.0000

TOTAL OUT = 960.7834 TOTAL OUT = 1.7934E-04

IN - OUT = 7.5195E-02 IN - OUT = 0.0000

PERCENT DISCREPANCY = 0.01 PERCENT DISCREPANCY = 0.00

TIME SUMMARY AT END OF TIME STEP 31 IN STRESS PERIOD 3

	SECONDS	MINUTES	HOURS	DAYS	YEARS
TIME STEP LENGTH	86400.	1440.0	24.000	1.00000	2.73785E-03

```
 STRESS PERIOD TIME 2.67840E+06  44640.      744.00      31.000
8.48734E-02
         TOTAL TIME 5.35680E+06  89280.      1488.0      62.000
0.16975
1
1
                            STRESS PERIOD NO.    4, LENGTH =
2592000.
                            --------------------------------------
---------

                              NUMBER OF TIME STEPS =    30

                               MULTIPLIER FOR DELT =     1.000

                            INITIAL TIME STEP SIZE =   86400.00

 WELL NO.  LAYER   ROW   COL   STRESS RATE
 --------------------------------------------------
      1      1     11      2     -100.00

      1 WELL

 SOLVING FOR HEAD


     1 CALLS TO PCG ROUTINE FOR TIME STEP   1 IN STRESS PERIOD
4
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    4   TIME STEP    1
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  1,
STRESS PERIOD   4
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  1,
STRESS PERIOD   4
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  1,
STRESS PERIOD   4
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  1,
STRESS PERIOD   4
1
              HEAD IN LAYER   1 AT END OF TIME STEP   1 IN STRESS
PERIOD    4
  ----------------------------------------------------------------
-----------

           1            2            3            4            5
6          7            8            9           10
          11           12           13           14

...................................................................
.......................................................
```

```
   1    0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
        0.7123       0.7317       0.7509       0.7700
   2    0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
        0.7123       0.7317       0.7509       0.7700
   3    0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
        0.7123       0.7317       0.7509       0.7700
   4    0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
        0.7124       0.7317       0.7509       0.7700
   5    0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
        0.7124       0.7317       0.7509       0.7700
   6    0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
        0.7125       0.7318       0.7510       0.7700
   7    0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
        0.7126       0.7318       0.7510       0.7700
   8    0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
        0.7126       0.7319       0.7510       0.7700
   9    0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
        0.7127       0.7319       0.7510       0.7700
  10    0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
        0.7127       0.7319       0.7510       0.7700
  11    0.5100     -1.0000E+30    0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
        0.7127       0.7319       0.7510       0.7700
  12    0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
        0.7127       0.7319       0.7510       0.7700
  13    0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
        0.7127       0.7319       0.7510       0.7700
  14    0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
        0.7126       0.7319       0.7510       0.7700
  15    0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
        0.7126       0.7318       0.7510       0.7700
  16    0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
        0.7125       0.7318       0.7510       0.7700
  17    0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
        0.7125       0.7318       0.7509       0.7700
  18    0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
        0.7124       0.7317       0.7509       0.7700
  19    0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
```

```
       0.7124      0.7317      0.7509      0.7700
  20   0.5100      0.5311      0.5519      0.5726      0.5932
0.6135      0.6336      0.6535      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    1, STRESS
PERIOD    4
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    1,
STRESS PERIOD   4
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =         976.3534       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =         976.3534            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =         976.2782       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =         976.2782           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02            IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.01     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    1 IN STRESS PERIOD
4
                    SECONDS      MINUTES       HOURS        DAYS
YEARS
```

```
                    ----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME  86400.      1440.0      24.000     1.00000
2.73785E-03
         TOTAL TIME 5.44320E+06  90720.      1512.0      63.000
0.17248
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   2 IN STRESS PERIOD
4
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    4   TIME STEP    2
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  2,
STRESS PERIOD   4
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  2,
STRESS PERIOD   4
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  2,
STRESS PERIOD   4
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  2,
STRESS PERIOD   4
1
              HEAD IN LAYER   1 AT END OF TIME STEP   2 IN STRESS
PERIOD    4
  ------------------------------------------------------------------
-----------

          1           2           3           4           5
6         7           8           9          10
         11          12          13          14

..................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
```

```
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    2, STRESS
PERIOD    4
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    2,
STRESS PERIOD   4
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
```

```
    ------------------                   ------------------------

          IN:                                       IN:
          ---                                       ---
            STORAGE =           0.0000               STORAGE =
0.0000
      CONSTANT HEAD =         991.8481         CONSTANT HEAD =
1.7934E-04
              WELLS =           0.0000                 WELLS =
0.0000

           TOTAL IN =         991.8481              TOTAL IN =
1.7934E-04

         OUT:                                      OUT:
         ----                                      ----
            STORAGE =           0.0000               STORAGE =
0.0000
      CONSTANT HEAD =         991.7729         CONSTANT HEAD =
1.7934E-04
              WELLS =           0.0000                 WELLS =
0.0000

          TOTAL OUT =         991.7729             TOTAL OUT =
1.7934E-04

           IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =            0.01     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    2 IN STRESS PERIOD
4
                    SECONDS      MINUTES       HOURS        DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.       1440.0       24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.72800E+05   2880.0       48.000      2.0000
5.47570E-03
         TOTAL TIME 5.52960E+06  92160.       1536.0      64.000
0.17522
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   3 IN STRESS PERIOD
4
     1 TOTAL ITERATIONS
```

```
 OUTPUT CONTROL FOR STRESS PERIOD    4   TIME STEP    3
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  3,
STRESS PERIOD   4
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  3,
STRESS PERIOD   4
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  3,
STRESS PERIOD   4
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  3,
STRESS PERIOD   4
1
              HEAD IN LAYER   1 AT END OF TIME STEP   3 IN STRESS
PERIOD    4
  ----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

..................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
```

```
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    3, STRESS
PERIOD    4
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    3,
STRESS PERIOD   4
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        1007.3429       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        1007.3429            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
```

```
          ----                                        ----
             STORAGE =            0.0000                     STORAGE =
0.0000
       CONSTANT HEAD =         1007.2677               CONSTANT HEAD =
1.7934E-04
               WELLS =            0.0000                       WELLS =
0.0000

           TOTAL OUT =         1007.2677                   TOTAL OUT =
1.7934E-04

            IN - OUT =        7.5195E-02                    IN - OUT =
0.0000

 PERCENT DISCREPANCY =              0.01     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    3 IN STRESS PERIOD
4
                    SECONDS     MINUTES      HOURS        DAYS
YEARS
                    ----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.59200E+05  4320.0      72.000      3.0000
8.21355E-03
         TOTAL TIME 5.61600E+06  93600.      1560.0      65.000
0.17796
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   4 IN STRESS PERIOD
4
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    4   TIME STEP    4
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  4,
STRESS PERIOD   4
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  4,
STRESS PERIOD   4
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  4,
STRESS PERIOD   4
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  4,
STRESS PERIOD   4
1
```

```
            HEAD IN LAYER   1 AT END OF TIME STEP   4 IN STRESS
PERIOD    4
  ---------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

 ...............................................................
 ..................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  11   0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
       0.7127      0.7319      0.7510      0.7700
  12   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  13   0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  14   0.5100      0.5320      0.5536      0.5745      0.5948
0.6148      0.6346      0.6543      0.6739      0.6933
       0.7126      0.7319      0.7510      0.7700
  15   0.5100      0.5316      0.5529      0.5738      0.5942
0.6144      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
```

```
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    4, STRESS
PERIOD    4
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    4,
STRESS PERIOD   4
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =            0.0000              STORAGE =
0.0000
       CONSTANT HEAD =         1022.8376        CONSTANT HEAD =
1.7934E-04
               WELLS =            0.0000                WELLS =
0.0000

            TOTAL IN =         1022.8376             TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =            0.0000              STORAGE =
0.0000
       CONSTANT HEAD =         1022.7625        CONSTANT HEAD =
1.7934E-04
               WELLS =            0.0000                WELLS =
0.0000

           TOTAL OUT =         1022.7625            TOTAL OUT =
1.7934E-04

            IN - OUT =        7.5195E-02             IN - OUT =
0.0000
```

```
 PERCENT DISCREPANCY =           0.01     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    4 IN STRESS PERIOD
4
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 3.45600E+05  5760.0      96.000      4.0000
1.09514E-02
         TOTAL TIME 5.70240E+06  95040.      1584.0      66.000
0.18070
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   5 IN STRESS PERIOD
4
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    4   TIME STEP    5
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  5,
STRESS PERIOD   4
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  5,
STRESS PERIOD   4
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  5,
STRESS PERIOD   4
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  5,
STRESS PERIOD   4
1
              HEAD IN LAYER   1 AT END OF TIME STEP   5 IN STRESS
PERIOD    4
  ----------------------------------------------------------------
-----------

            1           2           3            4           5
6           7           8           9           10
           11          12          13           14

...................................................................
..................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
```

```
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
```

```
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    5, STRESS
PERIOD    4
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    5,
STRESS PERIOD   4
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        1038.3324         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =        1038.3324              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        1038.2572         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =        1038.2572             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.01     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    5 IN STRESS PERIOD
4
                    SECONDS      MINUTES       HOURS        DAYS
YEARS
                    -----------------------------------------------
-------------
```

```
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 4.32000E+05  7200.0      120.00      5.0000
1.36893E-02
         TOTAL TIME 5.78880E+06  96480.      1608.0      67.000
0.18344
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   6 IN STRESS PERIOD
4
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    4   TIME STEP    6
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  6,
STRESS PERIOD   4
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  6,
STRESS PERIOD   4
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  6,
STRESS PERIOD   4
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  6,
STRESS PERIOD   4
1
              HEAD IN LAYER   1 AT END OF TIME STEP   6 IN STRESS
PERIOD    4
  -----------------------------------------------------------------
-----------

           1           2           3           4           5
6           7           8           9          10
          11          12          13          14

...................................................................
.......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
```

```
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    6, STRESS
PERIOD    4
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    6,
STRESS PERIOD   4
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
```

```
          ---                                       ---
            STORAGE =            0.0000                STORAGE =
0.0000
      CONSTANT HEAD =         1053.8271          CONSTANT HEAD =
1.7934E-04
              WELLS =            0.0000                  WELLS =
0.0000

           TOTAL IN =         1053.8271               TOTAL IN =
1.7934E-04

          OUT:                                      OUT:
          ----                                      ----
            STORAGE =            0.0000                STORAGE =
0.0000
      CONSTANT HEAD =         1053.7520          CONSTANT HEAD =
1.7934E-04
              WELLS =            0.0000                  WELLS =
0.0000

          TOTAL OUT =         1053.7520              TOTAL OUT =
1.7934E-04

           IN - OUT =        7.5195E-02               IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.01     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    6 IN STRESS PERIOD
4
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 5.18400E+05  8640.0      144.00      6.0000
1.64271E-02
         TOTAL TIME 5.87520E+06  97920.      1632.0      68.000
0.18617
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   7 IN STRESS PERIOD
4
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    4   TIME STEP    7
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
```

```
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  7,
STRESS PERIOD   4
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  7,
STRESS PERIOD   4
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  7,
STRESS PERIOD   4
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  7,
STRESS PERIOD   4
1
              HEAD IN LAYER   1 AT END OF TIME STEP   7 IN STRESS
PERIOD    4
  ------------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

....................................................................
.......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  11   0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
       0.7127      0.7319      0.7510      0.7700
```

```
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    7, STRESS
PERIOD    4
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    7,
STRESS PERIOD   4
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        1069.3219        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

            TOTAL IN =        1069.3219             TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
             STORAGE =           0.0000              STORAGE =
0.0000
```

```
       CONSTANT HEAD =        1069.2467         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =        1069.2467             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.01     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    7 IN STRESS PERIOD
4
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 6.04800E+05  10080.      168.00      7.0000
1.91650E-02
         TOTAL TIME 5.96160E+06  99360.      1656.0      69.000
0.18891
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   8 IN STRESS PERIOD
4
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    4   TIME STEP    8
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  8,
STRESS PERIOD   4
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  8,
STRESS PERIOD   4
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  8,
STRESS PERIOD   4
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  8,
STRESS PERIOD   4
1
              HEAD IN LAYER   1 AT END OF TIME STEP   8 IN STRESS
PERIOD    4
  -----------------------------------------------------------------
-----------
```

```
              1            2            3            4            5
6             7            8            9           10
             11           12           13           14

.....................................................................
........................................................
   1   0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
```

```
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    8, STRESS
PERIOD    4
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    8,
STRESS PERIOD   4
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        1084.8167       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        1084.8167            TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        1084.7415       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =        1084.7415           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02            IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.01     PERCENT DISCREPANCY =
0.00
```

```
         TIME SUMMARY AT END OF TIME STEP    8 IN STRESS PERIOD
4
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 6.91200E+05  11520.      192.00      8.0000
2.19028E-02
         TOTAL TIME 6.04800E+06 1.00800E+05  1680.0      70.000
0.19165
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   9 IN STRESS PERIOD
4
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    4   TIME STEP    9
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  9,
STRESS PERIOD   4
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  9,
STRESS PERIOD   4
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  9,
STRESS PERIOD   4
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  9,
STRESS PERIOD   4
1
              HEAD IN LAYER   1 AT END OF TIME STEP   9 IN STRESS
PERIOD    4
  -----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

...................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
```

```
          0.7123       0.7317       0.7509       0.7700
    4     0.5100       0.5311       0.5520       0.5727       0.5933
 0.6135       0.6336       0.6536       0.6733       0.6929
          0.7124       0.7317       0.7509       0.7700
    5     0.5100       0.5312       0.5522       0.5730       0.5935
 0.6137       0.6338       0.6537       0.6734       0.6930
          0.7124       0.7317       0.7509       0.7700
    6     0.5100       0.5314       0.5525       0.5733       0.5938
 0.6140       0.6340       0.6539       0.6735       0.6931
          0.7125       0.7318       0.7510       0.7700
    7     0.5100       0.5316       0.5529       0.5737       0.5942
 0.6143       0.6343       0.6541       0.6737       0.6932
          0.7126       0.7318       0.7510       0.7700
    8     0.5100       0.5320       0.5536       0.5744       0.5948
 0.6148       0.6346       0.6543       0.6738       0.6933
          0.7126       0.7319       0.7510       0.7700
    9     0.5100       0.5326       0.5549       0.5755       0.5955
 0.6153       0.6349       0.6545       0.6740       0.6934
          0.7127       0.7319       0.7510       0.7700
   10     0.5100       0.5335       0.5576       0.5772       0.5964
 0.6157       0.6352       0.6546       0.6741       0.6934
          0.7127       0.7319       0.7510       0.7700
   11     0.5100     -1.0000E+30  0.5648       0.5791       0.5970
 0.6160       0.6353       0.6547       0.6741       0.6935
          0.7127       0.7319       0.7510       0.7700
   12     0.5100       0.5335       0.5576       0.5772       0.5964
 0.6157       0.6352       0.6546       0.6741       0.6934
          0.7127       0.7319       0.7510       0.7700
   13     0.5100       0.5326       0.5549       0.5756       0.5955
 0.6153       0.6349       0.6545       0.6740       0.6934
          0.7127       0.7319       0.7510       0.7700
   14     0.5100       0.5320       0.5536       0.5745       0.5948
 0.6148       0.6346       0.6543       0.6739       0.6933
          0.7126       0.7319       0.7510       0.7700
   15     0.5100       0.5316       0.5529       0.5738       0.5942
 0.6144       0.6343       0.6541       0.6737       0.6932
          0.7126       0.7318       0.7510       0.7700
   16     0.5100       0.5314       0.5525       0.5733       0.5938
 0.6140       0.6341       0.6539       0.6736       0.6931
          0.7125       0.7318       0.7510       0.7700
   17     0.5100       0.5312       0.5522       0.5730       0.5935
 0.6138       0.6339       0.6538       0.6735       0.6930
          0.7125       0.7318       0.7509       0.7700
   18     0.5100       0.5311       0.5521       0.5728       0.5933
 0.6136       0.6337       0.6536       0.6734       0.6930
          0.7124       0.7317       0.7509       0.7700
   19     0.5100       0.5311       0.5520       0.5727       0.5932
 0.6135       0.6336       0.6536       0.6733       0.6929
          0.7124       0.7317       0.7509       0.7700
   20     0.5100       0.5311       0.5519       0.5726       0.5932
 0.6135       0.6336       0.6535       0.6733       0.6929
          0.7124       0.7317       0.7509       0.7700

  HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    9, STRESS
PERIOD    4
1
```

```
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    9,
STRESS PERIOD   4
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        1100.3114       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        1100.3114            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        1100.2362       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =        1100.2362           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02            IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.01     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    9 IN STRESS PERIOD
4
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    ------------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 7.77600E+05  12960.      216.00      9.0000
2.46407E-02
         TOTAL TIME 6.13440E+06 1.02240E+05  1704.0      71.000
0.19439
```

```
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  10 IN STRESS PERIOD
4
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    4   TIME STEP   10
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 10,
STRESS PERIOD   4
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 10,
STRESS PERIOD   4
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 10,
STRESS PERIOD   4
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 10,
STRESS PERIOD   4
1
              HEAD IN LAYER   1 AT END OF TIME STEP  10 IN STRESS
PERIOD    4
  -----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

...................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
```

```
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   10, STRESS
PERIOD    4
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   10,
STRESS PERIOD    4
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        1115.8062         CONSTANT HEAD =
1.7934E-04
```

```
               WELLS =           0.0000                   WELLS =
0.0000

            TOTAL IN =        1115.8062                TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
             STORAGE =           0.0000                 STORAGE =
0.0000
       CONSTANT HEAD =        1115.7310           CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                   WELLS =
0.0000

           TOTAL OUT =        1115.7310               TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02                IN - OUT =
0.0000

 PERCENT DISCREPANCY =             0.01     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   10 IN STRESS PERIOD
4
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 8.64000E+05  14400.      240.00     10.0000
2.73785E-02
         TOTAL TIME 6.22080E+06 1.03680E+05  1728.0      72.000
0.19713
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  11 IN STRESS PERIOD
4
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    4   TIME STEP   11
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 11,
STRESS PERIOD   4
```

```
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 11,
STRESS PERIOD   4
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 11,
STRESS PERIOD   4
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 11,
STRESS PERIOD   4
1
              HEAD IN LAYER   1 AT END OF TIME STEP  11 IN STRESS
PERIOD    4
  ---------------------------------------------------------------
-----------

            1            2            3            4            5
6           7            8            9           10
           11           12           13           14

.................................................................
......................................................
   1   0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100     -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
```

```
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   11, STRESS
PERIOD    4
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   11,
STRESS PERIOD   4
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000                STORAGE =
0.0000
       CONSTANT HEAD =        1131.3009          CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                  WELLS =
0.0000

            TOTAL IN =        1131.3009               TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000                STORAGE =
0.0000
       CONSTANT HEAD =        1131.2257          CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                  WELLS =
0.0000
```

```
           TOTAL OUT =        1131.2257             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02               IN - OUT =
0.0000

 PERCENT DISCREPANCY =            0.01     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   11 IN STRESS PERIOD
4
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 9.50400E+05  15840.      264.00      11.000
3.01164E-02
         TOTAL TIME 6.30720E+06 1.05120E+05  1752.0      73.000
0.19986
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  12 IN STRESS PERIOD
4
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    4   TIME STEP   12
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 12,
STRESS PERIOD   4
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 12,
STRESS PERIOD   4
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 12,
STRESS PERIOD   4
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 12,
STRESS PERIOD   4
1
              HEAD IN LAYER   1 AT END OF TIME STEP  12 IN STRESS
PERIOD    4
  -----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14
```

```
.......................................................................
..........................................................
   1   0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
```

```
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135      0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135      0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   12, STRESS
PERIOD    4
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   12,
STRESS PERIOD   4
  -------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        1146.7957       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        1146.7957            TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        1146.7205       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =        1146.7205           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02            IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.01     PERCENT DISCREPANCY =
0.00
```

```
         TIME SUMMARY AT END OF TIME STEP   12 IN STRESS PERIOD
4
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.03680E+06  17280.      288.00      12.000
3.28542E-02
         TOTAL TIME 6.39360E+06 1.06560E+05  1776.0      74.000
0.20260
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  13 IN STRESS PERIOD
4
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    4   TIME STEP   13
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 13,
STRESS PERIOD   4
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 13,
STRESS PERIOD   4
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 13,
STRESS PERIOD   4
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 13,
STRESS PERIOD   4
1
              HEAD IN LAYER   1 AT END OF TIME STEP  13 IN STRESS
PERIOD    4
  -----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

...................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
```

```
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   13, STRESS
PERIOD    4
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   13,
STRESS PERIOD   4
  ------------------------------------------------------------------
--------------
```

```
     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        1162.2904       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        1162.2904            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        1162.2152       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =        1162.2152           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02            IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.01     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   13 IN STRESS PERIOD
4
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.12320E+06  18720.      312.00      13.000
3.55921E-02
         TOTAL TIME 6.48000E+06 1.08000E+05  1800.0      75.000
0.20534
1

 SOLVING FOR HEAD
```

```
     1 CALLS TO PCG ROUTINE FOR TIME STEP  14 IN STRESS PERIOD
4
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    4   TIME STEP   14
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 14,
STRESS PERIOD   4
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 14,
STRESS PERIOD   4
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 14,
STRESS PERIOD   4
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 14,
STRESS PERIOD   4
1
              HEAD IN LAYER   1 AT END OF TIME STEP  14 IN STRESS
PERIOD    4
  -----------------------------------------------------------------
-----------

            1            2            3            4            5
6           7            8            9           10
           11           12           13           14

...................................................................
.......................................................
   1   0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
```

```
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   14, STRESS
PERIOD    4
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   14,
STRESS PERIOD   4
  ----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                   IN:
           ---                                   ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        1177.7852       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000
```

```
            TOTAL IN =        1177.7852              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        1177.7100         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =        1177.7100             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =             0.01     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   14 IN STRESS PERIOD
4
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.20960E+06  20160.      336.00      14.000
3.83299E-02
         TOTAL TIME 6.56640E+06 1.09440E+05  1824.0      76.000
0.20808
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  15 IN STRESS PERIOD
4
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    4   TIME STEP   15
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 15,
STRESS PERIOD   4
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 15,
STRESS PERIOD   4
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 15,
STRESS PERIOD   4
```

```
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 15,
STRESS PERIOD    4
1
              HEAD IN LAYER   1 AT END OF TIME STEP  15 IN STRESS
PERIOD    4
  -----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

...................................................................
.....................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  11   0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
       0.7127      0.7319      0.7510      0.7700
  12   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  13   0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  14   0.5100      0.5320      0.5536      0.5745      0.5948
0.6148      0.6346      0.6543      0.6739      0.6933
       0.7126      0.7319      0.7510      0.7700
```

```
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   15, STRESS
PERIOD    4
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   15,
STRESS PERIOD   4
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                   IN:
           ---                                   ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        1193.2799       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        1193.2799            TOTAL IN =
1.7934E-04

          OUT:                                  OUT:
          ----                                  ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        1193.2047       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =        1193.2047           TOTAL OUT =
1.7934E-04
```

```
            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.01     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   15 IN STRESS PERIOD
4
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.29600E+06  21600.      360.00      15.000
4.10678E-02
         TOTAL TIME 6.65280E+06 1.10880E+05  1848.0      77.000
0.21081
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  16 IN STRESS PERIOD
4
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    4   TIME STEP   16
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 16,
STRESS PERIOD   4
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 16,
STRESS PERIOD   4
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 16,
STRESS PERIOD   4
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 16,
STRESS PERIOD   4
1
              HEAD IN LAYER   1 AT END OF TIME STEP  16 IN STRESS
PERIOD    4
  ---------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

...................................................................
.......................................................
```

```
   1   0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100     -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
```

```
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   16, STRESS
PERIOD    4
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   16,
STRESS PERIOD   4
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        1208.7747       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        1208.7747            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        1208.6995       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =        1208.6995           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02            IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.01     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   16 IN STRESS PERIOD
4
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
```

```
                    ----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.38240E+06  23040.      384.00      16.000
4.38056E-02
         TOTAL TIME 6.73920E+06 1.12320E+05  1872.0      78.000
0.21355
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  17 IN STRESS PERIOD
4
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    4   TIME STEP   17
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 17,
STRESS PERIOD   4
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 17,
STRESS PERIOD   4
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 17,
STRESS PERIOD   4
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 17,
STRESS PERIOD   4
1
              HEAD IN LAYER   1 AT END OF TIME STEP  17 IN STRESS
PERIOD    4
  ---------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

.................................................................
.....................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
```

```
   6  0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
      0.7125      0.7318      0.7510      0.7700
   7  0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
      0.7126      0.7318      0.7510      0.7700
   8  0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
      0.7126      0.7319      0.7510      0.7700
   9  0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
      0.7127      0.7319      0.7510      0.7700
  10  0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
      0.7127      0.7319      0.7510      0.7700
  11  0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
      0.7127      0.7319      0.7510      0.7700
  12  0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
      0.7127      0.7319      0.7510      0.7700
  13  0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
      0.7127      0.7319      0.7510      0.7700
  14  0.5100      0.5320      0.5536      0.5745      0.5948
0.6148      0.6346      0.6543      0.6739      0.6933
      0.7126      0.7319      0.7510      0.7700
  15  0.5100      0.5316      0.5529      0.5738      0.5942
0.6144      0.6343      0.6541      0.6737      0.6932
      0.7126      0.7318      0.7510      0.7700
  16  0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6341      0.6539      0.6736      0.6931
      0.7125      0.7318      0.7510      0.7700
  17  0.5100      0.5312      0.5522      0.5730      0.5935
0.6138      0.6339      0.6538      0.6735      0.6930
      0.7125      0.7318      0.7509      0.7700
  18  0.5100      0.5311      0.5521      0.5728      0.5933
0.6136      0.6337      0.6536      0.6734      0.6930
      0.7124      0.7317      0.7509      0.7700
  19  0.5100      0.5311      0.5520      0.5727      0.5932
0.6135      0.6336      0.6536      0.6733      0.6929
      0.7124      0.7317      0.7509      0.7700
  20  0.5100      0.5311      0.5519      0.5726      0.5932
0.6135      0.6336      0.6535      0.6733      0.6929
      0.7124      0.7317      0.7509      0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   17, STRESS
PERIOD    4
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   17,
STRESS PERIOD   4
  ----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
```

```
     ------------------                   ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =            0.0000              STORAGE =
0.0000
       CONSTANT HEAD =         1224.2694        CONSTANT HEAD =
1.7934E-04
               WELLS =            0.0000                WELLS =
0.0000

            TOTAL IN =         1224.2694             TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =            0.0000              STORAGE =
0.0000
       CONSTANT HEAD =         1224.1942        CONSTANT HEAD =
1.7934E-04
               WELLS =            0.0000                WELLS =
0.0000

           TOTAL OUT =         1224.1942            TOTAL OUT =
1.7934E-04

            IN - OUT =        7.5195E-02             IN - OUT =
0.0000

 PERCENT DISCREPANCY =              0.01     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   17 IN STRESS PERIOD
4
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.46880E+06  24480.      408.00      17.000
4.65435E-02
         TOTAL TIME 6.82560E+06 1.13760E+05  1896.0      79.000
0.21629
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  18 IN STRESS PERIOD
4
     1 TOTAL ITERATIONS
```

```
 OUTPUT CONTROL FOR STRESS PERIOD    4   TIME STEP   18
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 18,
STRESS PERIOD   4
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 18,
STRESS PERIOD   4
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 18,
STRESS PERIOD   4
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 18,
STRESS PERIOD   4
1
              HEAD IN LAYER   1 AT END OF TIME STEP  18 IN STRESS
PERIOD    4
  ----------------------------------------------------------------
-----------

            1            2            3            4            5
6           7            8            9           10
           11           12           13           14

..................................................................
......................................................
   1   0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
```

```
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   18, STRESS
PERIOD    4
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   18,
STRESS PERIOD   4
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        1239.7642        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

            TOTAL IN =        1239.7642             TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
```

```
          ----                                        ----
             STORAGE =            0.0000                  STORAGE =
0.0000
       CONSTANT HEAD =         1239.6890            CONSTANT HEAD =
1.7934E-04
               WELLS =            0.0000                    WELLS =
0.0000

           TOTAL OUT =         1239.6890                TOTAL OUT =
1.7934E-04

            IN - OUT =        7.5195E-02                 IN - OUT =
0.0000

 PERCENT DISCREPANCY =              0.01     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   18 IN STRESS PERIOD
4
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.55520E+06  25920.      432.00      18.000
4.92813E-02
         TOTAL TIME 6.91200E+06 1.15200E+05  1920.0      80.000
0.21903
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  19 IN STRESS PERIOD
4
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    4   TIME STEP   19
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 19,
STRESS PERIOD   4
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 19,
STRESS PERIOD   4
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 19,
STRESS PERIOD   4
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 19,
STRESS PERIOD   4
1
```

```
               HEAD IN LAYER   1 AT END OF TIME STEP  19 IN STRESS
PERIOD    4
  -------------------------------------------------------------------
-----------

            1            2            3            4            5
6           7            8            9           10
           11           12           13           14

....................................................................
...............................................................
   1    0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
        0.7123       0.7317       0.7509       0.7700
   2    0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
        0.7123       0.7317       0.7509       0.7700
   3    0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
        0.7123       0.7317       0.7509       0.7700
   4    0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
        0.7124       0.7317       0.7509       0.7700
   5    0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
        0.7124       0.7317       0.7509       0.7700
   6    0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
        0.7125       0.7318       0.7510       0.7700
   7    0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
        0.7126       0.7318       0.7510       0.7700
   8    0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
        0.7126       0.7319       0.7510       0.7700
   9    0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
        0.7127       0.7319       0.7510       0.7700
  10    0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
        0.7127       0.7319       0.7510       0.7700
  11    0.5100     -1.0000E+30    0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
        0.7127       0.7319       0.7510       0.7700
  12    0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
        0.7127       0.7319       0.7510       0.7700
  13    0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
        0.7127       0.7319       0.7510       0.7700
  14    0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
        0.7126       0.7319       0.7510       0.7700
  15    0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
        0.7126       0.7318       0.7510       0.7700
```

```
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   19, STRESS
PERIOD    4
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   19,
STRESS PERIOD   4
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        1255.2589         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =        1255.2589              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        1255.1837         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =        1255.1837             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000
```

```
 PERCENT DISCREPANCY =           0.01     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   19 IN STRESS PERIOD
4
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.64160E+06  27360.      456.00      19.000
5.20192E-02
         TOTAL TIME 6.99840E+06 1.16640E+05  1944.0      81.000
0.22177
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  20 IN STRESS PERIOD
4
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    4   TIME STEP   20
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 20,
STRESS PERIOD   4
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 20,
STRESS PERIOD   4
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 20,
STRESS PERIOD   4
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 20,
STRESS PERIOD   4
1
              HEAD IN LAYER   1 AT END OF TIME STEP   20 IN STRESS
PERIOD    4
  ----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

...................................................................
.......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
```

```
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
```

```
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   20, STRESS
PERIOD    4
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   20,
STRESS PERIOD   4
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        1270.7537       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        1270.7537            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        1270.6785       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =        1270.6785           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02            IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.01     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   20 IN STRESS PERIOD
4
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
```

```
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.72800E+06  28800.      480.00      20.000
5.47570E-02
         TOTAL TIME 7.08480E+06 1.18080E+05  1968.0      82.000
0.22450
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  21 IN STRESS PERIOD
4
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    4   TIME STEP   21
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 21,
STRESS PERIOD   4
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 21,
STRESS PERIOD   4
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 21,
STRESS PERIOD   4
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 21,
STRESS PERIOD   4
1
              HEAD IN LAYER   1 AT END OF TIME STEP  21 IN STRESS
PERIOD    4
  ----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

..................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
```

```
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   21, STRESS
PERIOD    4
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   21,
STRESS PERIOD   4
  ----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
```

```
          ---                                      ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        1286.2484        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

            TOTAL IN =        1286.2484             TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        1286.1732        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

           TOTAL OUT =        1286.1732            TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02             IN - OUT =
0.0000

 PERCENT DISCREPANCY =             0.01     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   21 IN STRESS PERIOD
4
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.81440E+06  30240.      504.00      21.000
5.74949E-02
         TOTAL TIME 7.17120E+06 1.19520E+05  1992.0      83.000
0.22724
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   22 IN STRESS PERIOD
4
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    4   TIME STEP   22
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
```

```
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 22,
STRESS PERIOD   4
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 22,
STRESS PERIOD   4
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 22,
STRESS PERIOD   4
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 22,
STRESS PERIOD   4
1
              HEAD IN LAYER   1 AT END OF TIME STEP  22 IN STRESS
PERIOD    4
  ------------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

..................................................................
.....................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  11   0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
       0.7127      0.7319      0.7510      0.7700
```

```
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   22, STRESS
PERIOD    4
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   22,
STRESS PERIOD   4
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        1301.7432         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =        1301.7432              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =
0.0000
```

```
       CONSTANT HEAD =        1301.6680         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =        1301.6680             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.01     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   22 IN STRESS PERIOD
4
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.90080E+06  31680.      528.00      22.000
6.02327E-02
         TOTAL TIME 7.25760E+06 1.20960E+05  2016.0      84.000
0.22998
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  23 IN STRESS PERIOD
4
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    4   TIME STEP   23
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 23,
STRESS PERIOD   4
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 23,
STRESS PERIOD   4
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 23,
STRESS PERIOD   4
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 23,
STRESS PERIOD   4
1
              HEAD IN LAYER   1 AT END OF TIME STEP  23 IN STRESS
PERIOD    4
  -----------------------------------------------------------------
-----------
```

```
            1            2            3            4            5
6           7            8            9           10
           11           12           13           14

.....................................................................
........................................................
   1   0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
```

```
  17   0.5100      0.5312      0.5522      0.5730      0.5935
0.6138      0.6339      0.6538      0.6735      0.6930
       0.7125      0.7318      0.7509      0.7700
  18   0.5100      0.5311      0.5521      0.5728      0.5933
0.6136      0.6337      0.6536      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
  19   0.5100      0.5311      0.5520      0.5727      0.5932
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
  20   0.5100      0.5311      0.5519      0.5726      0.5932
0.6135      0.6336      0.6535      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   23, STRESS
PERIOD    4
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   23,
STRESS PERIOD   4
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        1317.2379       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        1317.2379            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        1317.1627       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =        1317.1627           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02            IN - OUT =
0.0000

 PERCENT DISCREPANCY =             0.01     PERCENT DISCREPANCY =
0.00
```

```
         TIME SUMMARY AT END OF TIME STEP   23 IN STRESS PERIOD
4
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.98720E+06  33120.      552.00      23.000
6.29706E-02
         TOTAL TIME 7.34400E+06 1.22400E+05  2040.0      85.000
0.23272
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  24 IN STRESS PERIOD
4
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    4   TIME STEP   24
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 24,
STRESS PERIOD   4
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 24,
STRESS PERIOD   4
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 24,
STRESS PERIOD   4
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 24,
STRESS PERIOD   4
1
              HEAD IN LAYER   1 AT END OF TIME STEP  24 IN STRESS
PERIOD    4
  ----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

..................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
```

```
        0.7123       0.7317       0.7509       0.7700
    4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
        0.7124       0.7317       0.7509       0.7700
    5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
        0.7124       0.7317       0.7509       0.7700
    6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
        0.7125       0.7318       0.7510       0.7700
    7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
        0.7126       0.7318       0.7510       0.7700
    8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
        0.7126       0.7319       0.7510       0.7700
    9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
        0.7127       0.7319       0.7510       0.7700
   10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
        0.7127       0.7319       0.7510       0.7700
   11   0.5100      -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
        0.7127       0.7319       0.7510       0.7700
   12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
        0.7127       0.7319       0.7510       0.7700
   13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
        0.7127       0.7319       0.7510       0.7700
   14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
        0.7126       0.7319       0.7510       0.7700
   15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
        0.7126       0.7318       0.7510       0.7700
   16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
        0.7125       0.7318       0.7510       0.7700
   17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
        0.7125       0.7318       0.7509       0.7700
   18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
        0.7124       0.7317       0.7509       0.7700
   19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
        0.7124       0.7317       0.7509       0.7700
   20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
        0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   24, STRESS
PERIOD    4
1
```

```
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   24,
STRESS PERIOD   4
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000                STORAGE =
0.0000
       CONSTANT HEAD =        1332.7327          CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                  WELLS =
0.0000

            TOTAL IN =        1332.7327               TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000                STORAGE =
0.0000
       CONSTANT HEAD =        1332.6575          CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                  WELLS =
0.0000

           TOTAL OUT =        1332.6575              TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02               IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.01     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   24 IN STRESS PERIOD
4
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.07360E+06  34560.      576.00      24.000
6.57084E-02
         TOTAL TIME 7.43040E+06 1.23840E+05  2064.0      86.000
0.23546
```

```
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  25 IN STRESS PERIOD
4
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    4   TIME STEP   25
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 25,
STRESS PERIOD   4
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 25,
STRESS PERIOD   4
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 25,
STRESS PERIOD   4
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 25,
STRESS PERIOD   4
1
              HEAD IN LAYER   1 AT END OF TIME STEP  25 IN STRESS
PERIOD    4
  ----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

..................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
```

```
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   25, STRESS
PERIOD    4
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   25,
STRESS PERIOD   4
  ----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        1348.2274         CONSTANT HEAD =
1.7934E-04
```

```
              WELLS =          0.0000                WELLS =
0.0000

           TOTAL IN =       1348.2274             TOTAL IN =
1.7934E-04

          OUT:                                 OUT:
          ----                                 ----
            STORAGE =          0.0000              STORAGE =
0.0000
      CONSTANT HEAD =       1348.1522        CONSTANT HEAD =
1.7934E-04
              WELLS =          0.0000                WELLS =
0.0000

          TOTAL OUT =       1348.1522            TOTAL OUT =
1.7934E-04

           IN - OUT =      7.5195E-02             IN - OUT =
0.0000

 PERCENT DISCREPANCY =          0.01     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   25 IN STRESS PERIOD
4
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.16000E+06  36000.      600.00      25.000
6.84463E-02
         TOTAL TIME 7.51680E+06 1.25280E+05  2088.0      87.000
0.23819
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  26 IN STRESS PERIOD
4
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    4   TIME STEP   26
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 26,
STRESS PERIOD   4
```

```
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 26,
STRESS PERIOD   4
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 26,
STRESS PERIOD   4
 UBDSV4 SAVING "            WELLS" ON UNIT 953 AT TIME STEP 26,
STRESS PERIOD   4
1
              HEAD IN LAYER   1 AT END OF TIME STEP  26 IN STRESS
PERIOD    4
  ------------------------------------------------------------------
-----------

            1            2            3            4            5
6           7            8            9           10
           11           12           13           14

....................................................................
.......................................................
   1    0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
        0.7123       0.7317       0.7509       0.7700
   2    0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
        0.7123       0.7317       0.7509       0.7700
   3    0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
        0.7123       0.7317       0.7509       0.7700
   4    0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
        0.7124       0.7317       0.7509       0.7700
   5    0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
        0.7124       0.7317       0.7509       0.7700
   6    0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
        0.7125       0.7318       0.7510       0.7700
   7    0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
        0.7126       0.7318       0.7510       0.7700
   8    0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
        0.7126       0.7319       0.7510       0.7700
   9    0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
        0.7127       0.7319       0.7510       0.7700
  10    0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
        0.7127       0.7319       0.7510       0.7700
  11    0.5100     -1.0000E+30    0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
        0.7127       0.7319       0.7510       0.7700
  12    0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
        0.7127       0.7319       0.7510       0.7700
  13    0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
```

```
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148      0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144      0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140      0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138      0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136      0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135      0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135      0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   26, STRESS
PERIOD    4
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   26,
STRESS PERIOD   4
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        1363.7222        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

            TOTAL IN =        1363.7222             TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        1363.6470        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000
```

```
           TOTAL OUT =        1363.6470             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =             0.01     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   26 IN STRESS PERIOD
4
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.24640E+06  37440.      624.00      26.000
7.11841E-02
         TOTAL TIME 7.60320E+06 1.26720E+05  2112.0      88.000
0.24093
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  27 IN STRESS PERIOD
4
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    4   TIME STEP   27
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 27,
STRESS PERIOD   4
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 27,
STRESS PERIOD   4
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 27,
STRESS PERIOD   4
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 27,
STRESS PERIOD   4
1
              HEAD IN LAYER   1 AT END OF TIME STEP  27 IN STRESS
PERIOD    4
  ---------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14
```

```
.....................................................................
................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  11   0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
       0.7127      0.7319      0.7510      0.7700
  12   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  13   0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  14   0.5100      0.5320      0.5536      0.5745      0.5948
0.6148      0.6346      0.6543      0.6739      0.6933
       0.7126      0.7319      0.7510      0.7700
  15   0.5100      0.5316      0.5529      0.5738      0.5942
0.6144      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
  16   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6341      0.6539      0.6736      0.6931
       0.7125      0.7318      0.7510      0.7700
  17   0.5100      0.5312      0.5522      0.5730      0.5935
0.6138      0.6339      0.6538      0.6735      0.6930
       0.7125      0.7318      0.7509      0.7700
  18   0.5100      0.5311      0.5521      0.5728      0.5933
0.6136      0.6337      0.6536      0.6734      0.6930
```

```
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   27, STRESS
PERIOD    4
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   27,
STRESS PERIOD   4
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        1379.2169         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =        1379.2169              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        1379.1417         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =        1379.1417             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.01     PERCENT DISCREPANCY =
0.00
```

```
         TIME SUMMARY AT END OF TIME STEP   27 IN STRESS PERIOD
4
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.33280E+06  38880.      648.00      27.000
7.39220E-02
         TOTAL TIME 7.68960E+06 1.28160E+05  2136.0      89.000
0.24367
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  28 IN STRESS PERIOD
4
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    4   TIME STEP   28
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 28,
STRESS PERIOD   4
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 28,
STRESS PERIOD   4
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 28,
STRESS PERIOD   4
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 28,
STRESS PERIOD   4
1
              HEAD IN LAYER   1 AT END OF TIME STEP  28 IN STRESS
PERIOD    4
  ----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

..................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
```

```
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   28, STRESS
PERIOD    4
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   28,
STRESS PERIOD   4
  ------------------------------------------------------------------
--------------
```

```
     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        1394.7117        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

            TOTAL IN =        1394.7117             TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        1394.6365        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

           TOTAL OUT =        1394.6365            TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02             IN - OUT =
0.0000

 PERCENT DISCREPANCY =             0.01     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   28 IN STRESS PERIOD
4
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.41920E+06  40320.      672.00      28.000
7.66598E-02
         TOTAL TIME 7.77600E+06 1.29600E+05  2160.0      90.000
0.24641
1

 SOLVING FOR HEAD
```

```
     1 CALLS TO PCG ROUTINE FOR TIME STEP  29 IN STRESS PERIOD
4
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    4   TIME STEP   29
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 29,
STRESS PERIOD   4
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 29,
STRESS PERIOD   4
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 29,
STRESS PERIOD   4
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 29,
STRESS PERIOD   4
1
              HEAD IN LAYER   1 AT END OF TIME STEP  29 IN STRESS
PERIOD    4
  ----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

..................................................................
.....................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
```

```
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   29, STRESS
PERIOD    4
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   29,
STRESS PERIOD   4
  ----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                   IN:
           ---                                   ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        1410.2064       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000
```

```
             TOTAL IN =        1410.2064                TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =            0.0000               STORAGE =
0.0000
       CONSTANT HEAD =         1410.1312         CONSTANT HEAD =
1.7934E-04
               WELLS =            0.0000                 WELLS =
0.0000

            TOTAL OUT =        1410.1312              TOTAL OUT =
1.7934E-04

             IN - OUT =       7.5195E-02               IN - OUT =
0.0000

 PERCENT DISCREPANCY =            0.01     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   29 IN STRESS PERIOD
4
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.50560E+06  41760.      696.00      29.000
7.93977E-02
         TOTAL TIME 7.86240E+06 1.31040E+05  2184.0      91.000
0.24914
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  30 IN STRESS PERIOD
4
     1 TOTAL ITERATIONS

 MAXIMUM HEAD CHANGE FOR EACH ITERATION (1 INDICATES THE FIRST
INNER ITERATION):

    HEAD CHANGE    HEAD CHANGE    HEAD CHANGE    HEAD CHANGE
HEAD CHANGE
   LAYER,ROW,COL  LAYER,ROW,COL  LAYER,ROW,COL  LAYER,ROW,COL
LAYER,ROW,COL
 ------------------------------------------------------------------
----------
  1 -0.2360E-15
   (  1,  3,  8)
```

```
 MAXIMUM RESIDUAL FOR EACH ITERATION (1 INDICATES THE FIRST INNER
ITERATION):

    RESIDUAL        RESIDUAL        RESIDUAL        RESIDUAL
RESIDUAL
   LAYER,ROW,COL  LAYER,ROW,COL  LAYER,ROW,COL  LAYER,ROW,COL
LAYER,ROW,COL
 ------------------------------------------------------------------
----------
  1  0.1223E-18
   (  1,  2, 11)



 OUTPUT CONTROL FOR STRESS PERIOD    4   TIME STEP   30
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 30,
STRESS PERIOD   4
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 30,
STRESS PERIOD   4
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 30,
STRESS PERIOD   4
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 30,
STRESS PERIOD   4
1
              HEAD IN LAYER   1 AT END OF TIME STEP   30 IN STRESS
PERIOD    4
  ------------------------------------------------------------------
-----------

           1            2            3            4            5
6          7            8            9           10
          11           12           13           14

...................................................................
.......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
```

```
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   30, STRESS
PERIOD    4
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   30,
STRESS PERIOD   4
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
```

```
     ------------------                  ------------------------

            IN:                                     IN:
            ---                                     ---
              STORAGE =           0.0000              STORAGE =
0.0000
        CONSTANT HEAD =        1425.7012        CONSTANT HEAD =
1.7934E-04
                WELLS =           0.0000                WELLS =
0.0000

             TOTAL IN =        1425.7012             TOTAL IN =
1.7934E-04

           OUT:                                    OUT:
           ----                                    ----
              STORAGE =           0.0000              STORAGE =
0.0000
        CONSTANT HEAD =        1425.6260        CONSTANT HEAD =
1.7934E-04
                WELLS =           0.0000                WELLS =
0.0000

            TOTAL OUT =        1425.6260            TOTAL OUT =
1.7934E-04

             IN - OUT =       7.5195E-02             IN - OUT =
0.0000

  PERCENT DISCREPANCY =             0.01     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   30 IN STRESS PERIOD
4
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.59200E+06  43200.      720.00      30.000
8.21355E-02
         TOTAL TIME 7.94880E+06 1.32480E+05  2208.0      92.000
0.25188
1
1
                            STRESS PERIOD NO.    5, LENGTH =
2678400.
                            ---------------------------------------
---------
```

```
                                    NUMBER OF TIME STEPS =     31

                                     MULTIPLIER FOR DELT =     1.000

                                  INITIAL TIME STEP SIZE =   86400.00

 WELL NO.  LAYER   ROW   COL   STRESS RATE
 --------------------------------------------------
      1      1     11     2     -100.00

      1 WELL

 SOLVING FOR HEAD


     1 CALLS TO PCG ROUTINE FOR TIME STEP   1 IN STRESS PERIOD
5
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    5   TIME STEP    1
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  1,
STRESS PERIOD   5
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  1,
STRESS PERIOD   5
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  1,
STRESS PERIOD   5
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  1,
STRESS PERIOD   5
1
              HEAD IN LAYER   1 AT END OF TIME STEP   1 IN STRESS
PERIOD    5
  ------------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

..................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
```

```
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    1, STRESS
PERIOD    5
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    1,
STRESS PERIOD   5
  ------------------------------------------------------------------
--------------
```

```
     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        1441.1959         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =        1441.1959              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        1441.1207         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =        1441.1207             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.01     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    1 IN STRESS PERIOD
5
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME  86400.      1440.0      24.000     1.00000
2.73785E-03
         TOTAL TIME 8.03520E+06 1.33920E+05  2232.0      93.000
0.25462
1

 SOLVING FOR HEAD
```

```
     1 CALLS TO PCG ROUTINE FOR TIME STEP   2 IN STRESS PERIOD
5
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    5   TIME STEP    2
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  2,
STRESS PERIOD   5
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  2,
STRESS PERIOD   5
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  2,
STRESS PERIOD   5
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  2,
STRESS PERIOD   5
1
              HEAD IN LAYER   1 AT END OF TIME STEP   2 IN STRESS
PERIOD    5
  ----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

..................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
```

```
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    2, STRESS
PERIOD    5
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    2,
STRESS PERIOD   5
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        1456.6907        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000
```

```
            TOTAL IN =        1456.6907               TOTAL IN =
1.7934E-04

          OUT:                                      OUT:
          ----                                      ----
             STORAGE =           0.0000                STORAGE =
0.0000
       CONSTANT HEAD =        1456.6155          CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                  WELLS =
0.0000

           TOTAL OUT =        1456.6155              TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02               IN - OUT =
0.0000

 PERCENT DISCREPANCY =             0.01     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    2 IN STRESS PERIOD
5
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.72800E+05  2880.0      48.000      2.0000
5.47570E-03
         TOTAL TIME 8.12160E+06 1.35360E+05  2256.0      94.000
0.25736
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   3 IN STRESS PERIOD
5
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    5   TIME STEP    3
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  3,
STRESS PERIOD   5
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  3,
STRESS PERIOD   5
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  3,
STRESS PERIOD   5
```

```
 UBDSV4 SAVING "          WELLS" ON UNIT 953 AT TIME STEP  3,
STRESS PERIOD   5
1
             HEAD IN LAYER   1 AT END OF TIME STEP   3 IN STRESS
PERIOD    5
  -------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

...............................................................
...................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  11   0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
       0.7127      0.7319      0.7510      0.7700
  12   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  13   0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  14   0.5100      0.5320      0.5536      0.5745      0.5948
0.6148      0.6346      0.6543      0.6739      0.6933
       0.7126      0.7319      0.7510      0.7700
```

```
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    3, STRESS
PERIOD    5
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    3,
STRESS PERIOD   5
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        1472.1854        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

            TOTAL IN =        1472.1854             TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        1472.1102        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

           TOTAL OUT =        1472.1102            TOTAL OUT =
1.7934E-04
```

```
            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.01     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    3 IN STRESS PERIOD
5
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.59200E+05  4320.0      72.000      3.0000
8.21355E-03
         TOTAL TIME 8.20800E+06 1.36800E+05  2280.0      95.000
0.26010
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   4 IN STRESS PERIOD
5
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    5   TIME STEP    4
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  4,
STRESS PERIOD   5
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  4,
STRESS PERIOD   5
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  4,
STRESS PERIOD   5
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  4,
STRESS PERIOD   5
1
              HEAD IN LAYER   1 AT END OF TIME STEP   4 IN STRESS
PERIOD    5
  -----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

...................................................................
.......................................................
```

```
   1   0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
```

```
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    4, STRESS
PERIOD    5
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    4,
STRESS PERIOD   5
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                   IN:
           ---                                   ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        1487.6802       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        1487.6802            TOTAL IN =
1.7934E-04

          OUT:                                  OUT:
          ----                                  ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        1487.6050       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =        1487.6050           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02            IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.01     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    4 IN STRESS PERIOD
5
                    SECONDS      MINUTES      HOURS        DAYS
YEARS
```

```
                    ----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 3.45600E+05  5760.0      96.000      4.0000
1.09514E-02
         TOTAL TIME 8.29440E+06 1.38240E+05  2304.0      96.000
0.26283
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   5 IN STRESS PERIOD
5
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    5   TIME STEP    5
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  5,
STRESS PERIOD   5
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  5,
STRESS PERIOD   5
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  5,
STRESS PERIOD   5
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  5,
STRESS PERIOD   5
1
              HEAD IN LAYER   1 AT END OF TIME STEP   5 IN STRESS
PERIOD    5
  -----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

..................................................................
.....................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
```

```
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    5, STRESS
PERIOD    5
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    5,
STRESS PERIOD   5
  ----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
```

```
     ------------------                   ------------------------

           IN:                                        IN:
           ---                                        ---
             STORAGE =            0.0000              STORAGE =
0.0000
       CONSTANT HEAD =         1503.1749         CONSTANT HEAD =
1.7934E-04
               WELLS =            0.0000                WELLS =
0.0000

            TOTAL IN =         1503.1749             TOTAL IN =
1.7934E-04

          OUT:                                       OUT:
          ----                                       ----
             STORAGE =            0.0000              STORAGE =
0.0000
       CONSTANT HEAD =         1503.0997         CONSTANT HEAD =
1.7934E-04
               WELLS =            0.0000                WELLS =
0.0000

           TOTAL OUT =         1503.0997            TOTAL OUT =
1.7934E-04

            IN - OUT =        7.5195E-02             IN - OUT =
0.0000

 PERCENT DISCREPANCY =            0.01     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    5 IN STRESS PERIOD
5
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 4.32000E+05  7200.0      120.00      5.0000
1.36893E-02
         TOTAL TIME 8.38080E+06 1.39680E+05  2328.0      97.000
0.26557
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   6 IN STRESS PERIOD
5
     1 TOTAL ITERATIONS
```

```
 OUTPUT CONTROL FOR STRESS PERIOD    5   TIME STEP    6
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  6,
STRESS PERIOD   5
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  6,
STRESS PERIOD   5
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  6,
STRESS PERIOD   5
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  6,
STRESS PERIOD   5
1
              HEAD IN LAYER   1 AT END OF TIME STEP   6 IN STRESS
PERIOD    5
  ---------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

.................................................................
.....................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
```

```
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    6, STRESS
PERIOD    5
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    6,
STRESS PERIOD   5
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        1518.6697        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

            TOTAL IN =        1518.6697             TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
```

```
          ----                                        ----
             STORAGE =           0.0000                STORAGE =
0.0000
       CONSTANT HEAD =        1518.5945          CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                  WELLS =
0.0000

           TOTAL OUT =        1518.5945              TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02               IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00





         TIME SUMMARY AT END OF TIME STEP    6 IN STRESS PERIOD
5
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 5.18400E+05  8640.0      144.00      6.0000
1.64271E-02
         TOTAL TIME 8.46720E+06 1.41120E+05  2352.0      98.000
0.26831
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   7 IN STRESS PERIOD
5
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    5   TIME STEP    7
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  7,
STRESS PERIOD   5
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  7,
STRESS PERIOD   5
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  7,
STRESS PERIOD   5
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  7,
STRESS PERIOD   5
1
```

```
              HEAD IN LAYER   1 AT END OF TIME STEP   7 IN STRESS
PERIOD    5
  ---------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

.................................................................
...................................................
   1    0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
        0.7123      0.7317      0.7509      0.7700
   2    0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
        0.7123      0.7317      0.7509      0.7700
   3    0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
        0.7123      0.7317      0.7509      0.7700
   4    0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
        0.7124      0.7317      0.7509      0.7700
   5    0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
        0.7124      0.7317      0.7509      0.7700
   6    0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
        0.7125      0.7318      0.7510      0.7700
   7    0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
        0.7126      0.7318      0.7510      0.7700
   8    0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
        0.7126      0.7319      0.7510      0.7700
   9    0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
        0.7127      0.7319      0.7510      0.7700
  10    0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
        0.7127      0.7319      0.7510      0.7700
  11    0.5100    -1.0000E+30   0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
        0.7127      0.7319      0.7510      0.7700
  12    0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
        0.7127      0.7319      0.7510      0.7700
  13    0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
        0.7127      0.7319      0.7510      0.7700
  14    0.5100      0.5320      0.5536      0.5745      0.5948
0.6148      0.6346      0.6543      0.6739      0.6933
        0.7126      0.7319      0.7510      0.7700
  15    0.5100      0.5316      0.5529      0.5738      0.5942
0.6144      0.6343      0.6541      0.6737      0.6932
        0.7126      0.7318      0.7510      0.7700
```

```
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    7, STRESS
PERIOD    5
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    7,
STRESS PERIOD   5
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        1534.1644        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

            TOTAL IN =        1534.1644             TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        1534.0892        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

           TOTAL OUT =        1534.0892            TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02             IN - OUT =
0.0000
```

```
 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    7 IN STRESS PERIOD
5
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 6.04800E+05  10080.      168.00      7.0000
1.91650E-02
         TOTAL TIME 8.55360E+06 1.42560E+05  2376.0      99.000
0.27105
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   8 IN STRESS PERIOD
5
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    5   TIME STEP    8
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  8,
STRESS PERIOD   5
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  8,
STRESS PERIOD   5
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  8,
STRESS PERIOD   5
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  8,
STRESS PERIOD   5
1
              HEAD IN LAYER   1 AT END OF TIME STEP   8 IN STRESS
PERIOD    5
  -----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

...................................................................
.....................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
```

```
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
```

```
       0.7124      0.7317      0.7509      0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    8, STRESS
PERIOD    5
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    8,
STRESS PERIOD   5
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        1549.6592         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =        1549.6592              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        1549.5840         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =        1549.5840             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    8 IN STRESS PERIOD
5
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
```

```
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 6.91200E+05  11520.      192.00      8.0000
2.19028E-02
         TOTAL TIME 8.64000E+06 1.44000E+05  2400.0     100.000
0.27379
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   9 IN STRESS PERIOD
5
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    5   TIME STEP    9
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  9,
STRESS PERIOD   5
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  9,
STRESS PERIOD   5
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  9,
STRESS PERIOD   5
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  9,
STRESS PERIOD   5
1
              HEAD IN LAYER   1 AT END OF TIME STEP   9 IN STRESS
PERIOD    5
  ----------------------------------------------------------------
-----------

           1           2           3           4           5
6           7           8           9          10
          11          12          13          14

..................................................................
.....................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
```

```
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    9, STRESS
PERIOD    5
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    9,
STRESS PERIOD   5
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
```

```
          ---                                    ---
            STORAGE =          0.0000              STORAGE =
0.0000
      CONSTANT HEAD =       1565.1539        CONSTANT HEAD =
1.7934E-04
              WELLS =          0.0000                WELLS =
0.0000

           TOTAL IN =       1565.1539             TOTAL IN =
1.7934E-04

          OUT:                                   OUT:
          ----                                   ----
            STORAGE =          0.0000              STORAGE =
0.0000
      CONSTANT HEAD =       1565.0787        CONSTANT HEAD =
1.7934E-04
              WELLS =          0.0000                WELLS =
0.0000

          TOTAL OUT =       1565.0787            TOTAL OUT =
1.7934E-04

           IN - OUT =      7.5195E-02             IN - OUT =
0.0000

 PERCENT DISCREPANCY =          0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    9 IN STRESS PERIOD
5
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 7.77600E+05  12960.      216.00      9.0000
2.46407E-02
         TOTAL TIME 8.72640E+06 1.45440E+05  2424.0      101.00
0.27652
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  10 IN STRESS PERIOD
5
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    5   TIME STEP   10
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
```

```
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 10,
STRESS PERIOD   5
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 10,
STRESS PERIOD   5
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 10,
STRESS PERIOD   5
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 10,
STRESS PERIOD   5
1
              HEAD IN LAYER   1 AT END OF TIME STEP  10 IN STRESS
PERIOD    5
  -----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

.................................................................
...................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  11   0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
       0.7127      0.7319      0.7510      0.7700
```

```
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   10, STRESS
PERIOD    5
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   10,
STRESS PERIOD   5
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        1580.6487        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

            TOTAL IN =        1580.6487             TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000              STORAGE =
0.0000
```

```
       CONSTANT HEAD =        1580.5735         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =        1580.5735             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   10 IN STRESS PERIOD
5
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 8.64000E+05  14400.      240.00     10.0000
2.73785E-02
         TOTAL TIME 8.81280E+06 1.46880E+05  2448.0      102.00
0.27926
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  11 IN STRESS PERIOD
5
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    5   TIME STEP   11
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 11,
STRESS PERIOD   5
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 11,
STRESS PERIOD   5
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 11,
STRESS PERIOD   5
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 11,
STRESS PERIOD   5
1
              HEAD IN LAYER   1 AT END OF TIME STEP  11 IN STRESS
PERIOD    5
  -----------------------------------------------------------------
-----------
```

```
             1            2            3            4            5
6            7            8            9           10
            11           12           13           14

.....................................................................
........................................................
   1   0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100     -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
```

```
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   11, STRESS
PERIOD    5
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   11,
STRESS PERIOD   5
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        1596.1434         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =        1596.1434              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        1596.0682         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =        1596.0682             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =             0.00     PERCENT DISCREPANCY =
0.00
```

```
         TIME SUMMARY AT END OF TIME STEP   11 IN STRESS PERIOD
5
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 9.50400E+05  15840.      264.00      11.000
3.01164E-02
         TOTAL TIME 8.89920E+06 1.48320E+05  2472.0      103.00
0.28200
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  12 IN STRESS PERIOD
5
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    5   TIME STEP   12
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 12,
STRESS PERIOD   5
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 12,
STRESS PERIOD   5
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 12,
STRESS PERIOD   5
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 12,
STRESS PERIOD   5
1
              HEAD IN LAYER   1 AT END OF TIME STEP  12 IN STRESS
PERIOD    5
  -----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

...................................................................
.....................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
```

```
        0.7123       0.7317       0.7509       0.7700
   4    0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
        0.7124       0.7317       0.7509       0.7700
   5    0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
        0.7124       0.7317       0.7509       0.7700
   6    0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
        0.7125       0.7318       0.7510       0.7700
   7    0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
        0.7126       0.7318       0.7510       0.7700
   8    0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
        0.7126       0.7319       0.7510       0.7700
   9    0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
        0.7127       0.7319       0.7510       0.7700
  10    0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
        0.7127       0.7319       0.7510       0.7700
  11    0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
        0.7127       0.7319       0.7510       0.7700
  12    0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
        0.7127       0.7319       0.7510       0.7700
  13    0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
        0.7127       0.7319       0.7510       0.7700
  14    0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
        0.7126       0.7319       0.7510       0.7700
  15    0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
        0.7126       0.7318       0.7510       0.7700
  16    0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
        0.7125       0.7318       0.7510       0.7700
  17    0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
        0.7125       0.7318       0.7509       0.7700
  18    0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
        0.7124       0.7317       0.7509       0.7700
  19    0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
        0.7124       0.7317       0.7509       0.7700
  20    0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
        0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   12, STRESS
PERIOD    5
1
```

```
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   12,
STRESS PERIOD   5
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        1611.6382       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        1611.6382            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        1611.5630       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =        1611.5630           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02            IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   12 IN STRESS PERIOD
5
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.03680E+06  17280.      288.00      12.000
3.28542E-02
         TOTAL TIME 8.98560E+06 1.49760E+05  2496.0      104.00
0.28474
```

```
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  13 IN STRESS PERIOD
5
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    5   TIME STEP   13
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 13,
STRESS PERIOD   5
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 13,
STRESS PERIOD   5
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 13,
STRESS PERIOD   5
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 13,
STRESS PERIOD   5
1
              HEAD IN LAYER   1 AT END OF TIME STEP  13 IN STRESS
PERIOD    5
  ----------------------------------------------------------------
-----------

            1            2            3            4            5
6           7            8            9           10
           11           12           13           14

..................................................................
......................................................
   1    0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
        0.7123       0.7317       0.7509       0.7700
   2    0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
        0.7123       0.7317       0.7509       0.7700
   3    0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
        0.7123       0.7317       0.7509       0.7700
   4    0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
        0.7124       0.7317       0.7509       0.7700
   5    0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
        0.7124       0.7317       0.7509       0.7700
   6    0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
        0.7125       0.7318       0.7510       0.7700
   7    0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
        0.7126       0.7318       0.7510       0.7700
   8    0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
        0.7126       0.7319       0.7510       0.7700
```

```
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   13, STRESS
PERIOD    5
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   13,
STRESS PERIOD   5
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        1627.1329         CONSTANT HEAD =
1.7934E-04
```

```
              WELLS =           0.0000                   WELLS =
0.0000

           TOTAL IN =        1627.1329                TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
            STORAGE =           0.0000                 STORAGE =
0.0000
      CONSTANT HEAD =        1627.0577           CONSTANT HEAD =
1.7934E-04
              WELLS =           0.0000                   WELLS =
0.0000

          TOTAL OUT =        1627.0577               TOTAL OUT =
1.7934E-04

           IN - OUT =       7.5195E-02                IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   13 IN STRESS PERIOD
5
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.12320E+06  18720.      312.00      13.000
3.55921E-02
         TOTAL TIME 9.07200E+06 1.51200E+05  2520.0      105.00
0.28747
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  14 IN STRESS PERIOD
5
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    5   TIME STEP   14
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 14,
STRESS PERIOD   5
```

```
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 14,
STRESS PERIOD   5
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 14,
STRESS PERIOD   5
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 14,
STRESS PERIOD   5
1
              HEAD IN LAYER   1 AT END OF TIME STEP  14 IN STRESS
PERIOD    5
  ---------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

.................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  11   0.5100    -1.0000E+30   0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
       0.7127      0.7319      0.7510      0.7700
  12   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  13   0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
```

```
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   14, STRESS
PERIOD    5
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   14,
STRESS PERIOD   5
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        1642.6277         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =        1642.6277              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        1642.5525         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000
```

```
           TOTAL OUT =        1642.5525            TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02             IN - OUT =
0.0000

 PERCENT DISCREPANCY =            0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   14 IN STRESS PERIOD
5
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.20960E+06  20160.      336.00      14.000
3.83299E-02
         TOTAL TIME 9.15840E+06 1.52640E+05  2544.0      106.00
0.29021
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  15 IN STRESS PERIOD
5
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    5   TIME STEP   15
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 15,
STRESS PERIOD   5
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 15,
STRESS PERIOD   5
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 15,
STRESS PERIOD   5
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 15,
STRESS PERIOD   5
1
              HEAD IN LAYER   1 AT END OF TIME STEP  15 IN STRESS
PERIOD    5
  -----------------------------------------------------------------
-----------

            1           2           3            4            5
6           7           8           9           10
           11          12          13           14
```

```
.............................................................
..................................................
   1  0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
      0.7123      0.7317      0.7509      0.7700
   2  0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
      0.7123      0.7317      0.7509      0.7700
   3  0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
      0.7123      0.7317      0.7509      0.7700
   4  0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
      0.7124      0.7317      0.7509      0.7700
   5  0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
      0.7124      0.7317      0.7509      0.7700
   6  0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
      0.7125      0.7318      0.7510      0.7700
   7  0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
      0.7126      0.7318      0.7510      0.7700
   8  0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
      0.7126      0.7319      0.7510      0.7700
   9  0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
      0.7127      0.7319      0.7510      0.7700
  10  0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
      0.7127      0.7319      0.7510      0.7700
  11  0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
      0.7127      0.7319      0.7510      0.7700
  12  0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
      0.7127      0.7319      0.7510      0.7700
  13  0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
      0.7127      0.7319      0.7510      0.7700
  14  0.5100      0.5320      0.5536      0.5745      0.5948
0.6148      0.6346      0.6543      0.6739      0.6933
      0.7126      0.7319      0.7510      0.7700
  15  0.5100      0.5316      0.5529      0.5738      0.5942
0.6144      0.6343      0.6541      0.6737      0.6932
      0.7126      0.7318      0.7510      0.7700
  16  0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6341      0.6539      0.6736      0.6931
      0.7125      0.7318      0.7510      0.7700
  17  0.5100      0.5312      0.5522      0.5730      0.5935
0.6138      0.6339      0.6538      0.6735      0.6930
      0.7125      0.7318      0.7509      0.7700
  18  0.5100      0.5311      0.5521      0.5728      0.5933
0.6136      0.6337      0.6536      0.6734      0.6930
```

```
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   15, STRESS
PERIOD    5
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   15,
STRESS PERIOD   5
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        1658.1224         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =        1658.1224              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        1658.0472         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =        1658.0472             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00
```

```
         TIME SUMMARY AT END OF TIME STEP   15 IN STRESS PERIOD
5
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.29600E+06  21600.      360.00      15.000
4.10678E-02
         TOTAL TIME 9.24480E+06 1.54080E+05  2568.0      107.00
0.29295
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  16 IN STRESS PERIOD
5
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    5   TIME STEP   16
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 16,
STRESS PERIOD   5
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 16,
STRESS PERIOD   5
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 16,
STRESS PERIOD   5
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 16,
STRESS PERIOD   5
1
              HEAD IN LAYER   1 AT END OF TIME STEP  16 IN STRESS
PERIOD    5
  -----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

...................................................................
.......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
```

```
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   16, STRESS
PERIOD    5
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   16,
STRESS PERIOD   5
  -------------------------------------------------------------------
--------------
```

```
     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        1673.6172       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        1673.6172            TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        1673.5420       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =        1673.5420           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02            IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   16 IN STRESS PERIOD
5
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.38240E+06  23040.      384.00      16.000
4.38056E-02
         TOTAL TIME 9.33120E+06 1.55520E+05  2592.0      108.00
0.29569
1

 SOLVING FOR HEAD
```

```
     1 CALLS TO PCG ROUTINE FOR TIME STEP  17 IN STRESS PERIOD
5
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    5   TIME STEP   17
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 17,
STRESS PERIOD   5
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 17,
STRESS PERIOD   5
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 17,
STRESS PERIOD   5
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 17,
STRESS PERIOD   5
1
              HEAD IN LAYER   1 AT END OF TIME STEP  17 IN STRESS
PERIOD    5
  ------------------------------------------------------------------
-----------

            1            2            3            4            5
6           7            8            9           10
           11           12           13           14

..................................................................
.......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
```

```
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   17, STRESS
PERIOD    5
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   17,
STRESS PERIOD   5
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        1689.1119        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000
```

```
            TOTAL IN =        1689.1119              TOTAL IN =
1.7934E-04

          OUT:                                      OUT:
          ----                                      ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        1689.0367         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =        1689.0367             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   17 IN STRESS PERIOD
5
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.46880E+06  24480.      408.00      17.000
4.65435E-02
         TOTAL TIME 9.41760E+06 1.56960E+05  2616.0      109.00
0.29843
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  18 IN STRESS PERIOD
5
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    5   TIME STEP   18
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 18,
STRESS PERIOD   5
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 18,
STRESS PERIOD   5
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 18,
STRESS PERIOD   5
```

```
 UBDSV4 SAVING "          WELLS" ON UNIT 953 AT TIME STEP 18,
STRESS PERIOD    5
1
            HEAD IN LAYER   1 AT END OF TIME STEP  18 IN STRESS
PERIOD    5
  ---------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

.................................................................
.....................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  11   0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
       0.7127      0.7319      0.7510      0.7700
  12   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  13   0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  14   0.5100      0.5320      0.5536      0.5745      0.5948
0.6148      0.6346      0.6543      0.6739      0.6933
       0.7126      0.7319      0.7510      0.7700
```

```
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   18, STRESS
PERIOD    5
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   18,
STRESS PERIOD   5
  ----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =            0.0000             STORAGE =
0.0000
       CONSTANT HEAD =         1704.6067       CONSTANT HEAD =
1.7934E-04
               WELLS =            0.0000               WELLS =
0.0000

            TOTAL IN =         1704.6067            TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
             STORAGE =            0.0000             STORAGE =
0.0000
       CONSTANT HEAD =         1704.5315       CONSTANT HEAD =
1.7934E-04
               WELLS =            0.0000               WELLS =
0.0000

           TOTAL OUT =         1704.5315           TOTAL OUT =
1.7934E-04
```

```
            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   18 IN STRESS PERIOD
5
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.55520E+06  25920.      432.00      18.000
4.92813E-02
         TOTAL TIME 9.50400E+06 1.58400E+05  2640.0      110.00
0.30116
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  19 IN STRESS PERIOD
5
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    5   TIME STEP   19
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 19,
STRESS PERIOD   5
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 19,
STRESS PERIOD   5
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 19,
STRESS PERIOD   5
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 19,
STRESS PERIOD   5
1
              HEAD IN LAYER   1 AT END OF TIME STEP   19 IN STRESS
PERIOD    5
  -----------------------------------------------------------------
-----------

           1           2           3            4           5
6          7           8           9           10
          11          12          13           14

..................................................................
......................................................
```

```
   1   0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
```

```
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   19, STRESS
PERIOD    5
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   19,
STRESS PERIOD   5
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        1720.1014       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        1720.1014            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        1720.0262       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =        1720.0262           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02            IN - OUT =
0.0000

 PERCENT DISCREPANCY =            0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   19 IN STRESS PERIOD
5
                    SECONDS      MINUTES       HOURS        DAYS
YEARS
```

```
                    ----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.64160E+06  27360.      456.00      19.000
5.20192E-02
        TOTAL TIME 9.59040E+06 1.59840E+05  2664.0      111.00
0.30390
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  20 IN STRESS PERIOD
5
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    5   TIME STEP   20
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 20,
STRESS PERIOD   5
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 20,
STRESS PERIOD   5
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 20,
STRESS PERIOD   5
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 20,
STRESS PERIOD   5
1
              HEAD IN LAYER   1 AT END OF TIME STEP  20 IN STRESS
PERIOD    5
  ------------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

...................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
```

```
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   20, STRESS
PERIOD     5
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   20,
STRESS PERIOD   5
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
```

```
     ------------------                   ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =            0.0000              STORAGE =
0.0000
       CONSTANT HEAD =         1735.5962        CONSTANT HEAD =
1.7934E-04
               WELLS =            0.0000                WELLS =
0.0000

            TOTAL IN =         1735.5962             TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =            0.0000              STORAGE =
0.0000
       CONSTANT HEAD =         1735.5210        CONSTANT HEAD =
1.7934E-04
               WELLS =            0.0000                WELLS =
0.0000

           TOTAL OUT =         1735.5210            TOTAL OUT =
1.7934E-04

            IN - OUT =        7.5195E-02             IN - OUT =
0.0000

 PERCENT DISCREPANCY =              0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   20 IN STRESS PERIOD
5
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.72800E+06  28800.      480.00      20.000
5.47570E-02
         TOTAL TIME 9.67680E+06 1.61280E+05  2688.0      112.00
0.30664
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  21 IN STRESS PERIOD
5
     1 TOTAL ITERATIONS
```

```
 OUTPUT CONTROL FOR STRESS PERIOD    5   TIME STEP   21
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 21,
STRESS PERIOD   5
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 21,
STRESS PERIOD   5
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 21,
STRESS PERIOD   5
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 21,
STRESS PERIOD   5
1
              HEAD IN LAYER   1 AT END OF TIME STEP  21 IN STRESS
PERIOD    5
  ----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

..................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
```

```
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   21, STRESS
PERIOD    5
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   21,
STRESS PERIOD    5
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =            0.0000              STORAGE =
0.0000
       CONSTANT HEAD =         1751.0909        CONSTANT HEAD =
1.7934E-04
               WELLS =            0.0000                WELLS =
0.0000

            TOTAL IN =         1751.0909             TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
```

```
          ----                                        ----
             STORAGE =             0.0000                 STORAGE =
0.0000
       CONSTANT HEAD =          1751.0157           CONSTANT HEAD =
1.7934E-04
               WELLS =             0.0000                   WELLS =
0.0000

           TOTAL OUT =          1751.0157               TOTAL OUT =
1.7934E-04

            IN - OUT =         7.5195E-02                IN - OUT =
0.0000

 PERCENT DISCREPANCY =               0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   21 IN STRESS PERIOD
5
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.81440E+06  30240.      504.00      21.000
5.74949E-02
         TOTAL TIME 9.76320E+06 1.62720E+05  2712.0      113.00
0.30938
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  22 IN STRESS PERIOD
5
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    5   TIME STEP   22
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 22,
STRESS PERIOD   5
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 22,
STRESS PERIOD   5
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 22,
STRESS PERIOD   5
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 22,
STRESS PERIOD   5
1
```

```
            HEAD IN LAYER   1 AT END OF TIME STEP  22 IN STRESS
PERIOD    5
  ---------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

 .................................................................
 ......................................................
   1    0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
        0.7123      0.7317      0.7509      0.7700
   2    0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
        0.7123      0.7317      0.7509      0.7700
   3    0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
        0.7123      0.7317      0.7509      0.7700
   4    0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
        0.7124      0.7317      0.7509      0.7700
   5    0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
        0.7124      0.7317      0.7509      0.7700
   6    0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
        0.7125      0.7318      0.7510      0.7700
   7    0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
        0.7126      0.7318      0.7510      0.7700
   8    0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
        0.7126      0.7319      0.7510      0.7700
   9    0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
        0.7127      0.7319      0.7510      0.7700
  10    0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
        0.7127      0.7319      0.7510      0.7700
  11    0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
        0.7127      0.7319      0.7510      0.7700
  12    0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
        0.7127      0.7319      0.7510      0.7700
  13    0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
        0.7127      0.7319      0.7510      0.7700
  14    0.5100      0.5320      0.5536      0.5745      0.5948
0.6148      0.6346      0.6543      0.6739      0.6933
        0.7126      0.7319      0.7510      0.7700
  15    0.5100      0.5316      0.5529      0.5738      0.5942
0.6144      0.6343      0.6541      0.6737      0.6932
        0.7126      0.7318      0.7510      0.7700
```

```
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   22, STRESS
PERIOD    5
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   22,
STRESS PERIOD   5
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        1766.5857        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

            TOTAL IN =        1766.5857             TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        1766.5105        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

           TOTAL OUT =        1766.5105            TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02             IN - OUT =
0.0000
```

```
 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   22 IN STRESS PERIOD
5
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.90080E+06  31680.      528.00      22.000
6.02327E-02
         TOTAL TIME 9.84960E+06 1.64160E+05  2736.0      114.00
0.31211
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  23 IN STRESS PERIOD
5
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    5   TIME STEP   23
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 23,
STRESS PERIOD   5
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 23,
STRESS PERIOD   5
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 23,
STRESS PERIOD   5
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 23,
STRESS PERIOD   5
1
              HEAD IN LAYER   1 AT END OF TIME STEP   23 IN STRESS
PERIOD    5
  -----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

...................................................................
..........................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
```

```
   2   0.5100        0.5310        0.5519        0.5725        0.5930
0.6133        0.6334        0.6534        0.6732        0.6928
       0.7123        0.7317        0.7509        0.7700
   3   0.5100        0.5311        0.5519        0.5726        0.5931
0.6134        0.6335        0.6535        0.6732        0.6929
       0.7123        0.7317        0.7509        0.7700
   4   0.5100        0.5311        0.5520        0.5727        0.5933
0.6135        0.6336        0.6536        0.6733        0.6929
       0.7124        0.7317        0.7509        0.7700
   5   0.5100        0.5312        0.5522        0.5730        0.5935
0.6137        0.6338        0.6537        0.6734        0.6930
       0.7124        0.7317        0.7509        0.7700
   6   0.5100        0.5314        0.5525        0.5733        0.5938
0.6140        0.6340        0.6539        0.6735        0.6931
       0.7125        0.7318        0.7510        0.7700
   7   0.5100        0.5316        0.5529        0.5737        0.5942
0.6143        0.6343        0.6541        0.6737        0.6932
       0.7126        0.7318        0.7510        0.7700
   8   0.5100        0.5320        0.5536        0.5744        0.5948
0.6148        0.6346        0.6543        0.6738        0.6933
       0.7126        0.7319        0.7510        0.7700
   9   0.5100        0.5326        0.5549        0.5755        0.5955
0.6153        0.6349        0.6545        0.6740        0.6934
       0.7127        0.7319        0.7510        0.7700
  10   0.5100        0.5335        0.5576        0.5772        0.5964
0.6157        0.6352        0.6546        0.6741        0.6934
       0.7127        0.7319        0.7510        0.7700
  11   0.5100      -1.0000E+30   0.5648        0.5791        0.5970
0.6160        0.6353        0.6547        0.6741        0.6935
       0.7127        0.7319        0.7510        0.7700
  12   0.5100        0.5335        0.5576        0.5772        0.5964
0.6157        0.6352        0.6546        0.6741        0.6934
       0.7127        0.7319        0.7510        0.7700
  13   0.5100        0.5326        0.5549        0.5756        0.5955
0.6153        0.6349        0.6545        0.6740        0.6934
       0.7127        0.7319        0.7510        0.7700
  14   0.5100        0.5320        0.5536        0.5745        0.5948
0.6148        0.6346        0.6543        0.6739        0.6933
       0.7126        0.7319        0.7510        0.7700
  15   0.5100        0.5316        0.5529        0.5738        0.5942
0.6144        0.6343        0.6541        0.6737        0.6932
       0.7126        0.7318        0.7510        0.7700
  16   0.5100        0.5314        0.5525        0.5733        0.5938
0.6140        0.6341        0.6539        0.6736        0.6931
       0.7125        0.7318        0.7510        0.7700
  17   0.5100        0.5312        0.5522        0.5730        0.5935
0.6138        0.6339        0.6538        0.6735        0.6930
       0.7125        0.7318        0.7509        0.7700
  18   0.5100        0.5311        0.5521        0.5728        0.5933
0.6136        0.6337        0.6536        0.6734        0.6930
       0.7124        0.7317        0.7509        0.7700
  19   0.5100        0.5311        0.5520        0.5727        0.5932
0.6135        0.6336        0.6536        0.6733        0.6929
       0.7124        0.7317        0.7509        0.7700
  20   0.5100        0.5311        0.5519        0.5726        0.5932
0.6135        0.6336        0.6535        0.6733        0.6929
```

```
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   23, STRESS
PERIOD    5
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   23,
STRESS PERIOD   5
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        1782.0804       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        1782.0804            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        1782.0052       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =        1782.0052           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02            IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   23 IN STRESS PERIOD
5
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
```

```
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.98720E+06  33120.      552.00      23.000
6.29706E-02
         TOTAL TIME 9.93600E+06 1.65600E+05  2760.0      115.00
0.31485
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  24 IN STRESS PERIOD
5
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    5   TIME STEP   24
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 24,
STRESS PERIOD   5
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 24,
STRESS PERIOD   5
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 24,
STRESS PERIOD   5
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 24,
STRESS PERIOD   5
1
              HEAD IN LAYER   1 AT END OF TIME STEP  24 IN STRESS
PERIOD    5
  ------------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

..................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
```

```
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   24, STRESS
PERIOD    5
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   24,
STRESS PERIOD   5
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
```

```
          ---                                   ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        1797.5752        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

            TOTAL IN =        1797.5752             TOTAL IN =
1.7934E-04

          OUT:                                  OUT:
          ----                                  ----
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        1797.5000        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

           TOTAL OUT =        1797.5000            TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02             IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   24 IN STRESS PERIOD
5
                    SECONDS     MINUTES      HOURS        DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.07360E+06  34560.      576.00      24.000
6.57084E-02
         TOTAL TIME 1.00224E+07 1.67040E+05  2784.0      116.00
0.31759
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  25 IN STRESS PERIOD
5
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    5   TIME STEP   25
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
```

```
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 25,
STRESS PERIOD   5
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 25,
STRESS PERIOD   5
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 25,
STRESS PERIOD   5
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 25,
STRESS PERIOD   5
1
              HEAD IN LAYER   1 AT END OF TIME STEP  25 IN STRESS
PERIOD    5
  -----------------------------------------------------------------
-----------

           1            2            3            4            5
6          7            8            9           10
          11           12           13           14

.................................................................
..................................................
   1   0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
```

```
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   25, STRESS
PERIOD    5
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   25,
STRESS PERIOD   5
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        1813.0699         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =        1813.0699              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =
0.0000
```

```
       CONSTANT HEAD =        1812.9948          CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                  WELLS =
0.0000

           TOTAL OUT =        1812.9948              TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02               IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   25 IN STRESS PERIOD
5
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    ---------------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.16000E+06  36000.      600.00      25.000
6.84463E-02
         TOTAL TIME 1.01088E+07 1.68480E+05  2808.0      117.00
0.32033
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  26 IN STRESS PERIOD
5
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    5   TIME STEP   26
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 26,
STRESS PERIOD   5
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 26,
STRESS PERIOD   5
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 26,
STRESS PERIOD   5
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 26,
STRESS PERIOD   5
1
              HEAD IN LAYER   1 AT END OF TIME STEP  26 IN STRESS
PERIOD    5
  -----------------------------------------------------------------
-----------
```

```
              1             2             3             4             5
6             7             8             9            10
             11            12            13            14

.....................................................................
.........................................................
   1   0.5100        0.5310        0.5518        0.5725        0.5930
0.6133        0.6334        0.6534        0.6732        0.6928
       0.7123        0.7317        0.7509        0.7700
   2   0.5100        0.5310        0.5519        0.5725        0.5930
0.6133        0.6334        0.6534        0.6732        0.6928
       0.7123        0.7317        0.7509        0.7700
   3   0.5100        0.5311        0.5519        0.5726        0.5931
0.6134        0.6335        0.6535        0.6732        0.6929
       0.7123        0.7317        0.7509        0.7700
   4   0.5100        0.5311        0.5520        0.5727        0.5933
0.6135        0.6336        0.6536        0.6733        0.6929
       0.7124        0.7317        0.7509        0.7700
   5   0.5100        0.5312        0.5522        0.5730        0.5935
0.6137        0.6338        0.6537        0.6734        0.6930
       0.7124        0.7317        0.7509        0.7700
   6   0.5100        0.5314        0.5525        0.5733        0.5938
0.6140        0.6340        0.6539        0.6735        0.6931
       0.7125        0.7318        0.7510        0.7700
   7   0.5100        0.5316        0.5529        0.5737        0.5942
0.6143        0.6343        0.6541        0.6737        0.6932
       0.7126        0.7318        0.7510        0.7700
   8   0.5100        0.5320        0.5536        0.5744        0.5948
0.6148        0.6346        0.6543        0.6738        0.6933
       0.7126        0.7319        0.7510        0.7700
   9   0.5100        0.5326        0.5549        0.5755        0.5955
0.6153        0.6349        0.6545        0.6740        0.6934
       0.7127        0.7319        0.7510        0.7700
  10   0.5100        0.5335        0.5576        0.5772        0.5964
0.6157        0.6352        0.6546        0.6741        0.6934
       0.7127        0.7319        0.7510        0.7700
  11   0.5100      -1.0000E+30     0.5648        0.5791        0.5970
0.6160        0.6353        0.6547        0.6741        0.6935
       0.7127        0.7319        0.7510        0.7700
  12   0.5100        0.5335        0.5576        0.5772        0.5964
0.6157        0.6352        0.6546        0.6741        0.6934
       0.7127        0.7319        0.7510        0.7700
  13   0.5100        0.5326        0.5549        0.5756        0.5955
0.6153        0.6349        0.6545        0.6740        0.6934
       0.7127        0.7319        0.7510        0.7700
  14   0.5100        0.5320        0.5536        0.5745        0.5948
0.6148        0.6346        0.6543        0.6739        0.6933
       0.7126        0.7319        0.7510        0.7700
  15   0.5100        0.5316        0.5529        0.5738        0.5942
0.6144        0.6343        0.6541        0.6737        0.6932
       0.7126        0.7318        0.7510        0.7700
  16   0.5100        0.5314        0.5525        0.5733        0.5938
0.6140        0.6341        0.6539        0.6736        0.6931
       0.7125        0.7318        0.7510        0.7700
```

```
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   26, STRESS
PERIOD    5
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   26,
STRESS PERIOD   5
  ----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000                STORAGE =
0.0000
       CONSTANT HEAD =        1828.5647          CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                  WELLS =
0.0000

            TOTAL IN =        1828.5647               TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000                STORAGE =
0.0000
       CONSTANT HEAD =        1828.4895          CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                  WELLS =
0.0000

           TOTAL OUT =        1828.4895              TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02               IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00
```

```
         TIME SUMMARY AT END OF TIME STEP   26 IN STRESS PERIOD
5
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.24640E+06  37440.      624.00      26.000
7.11841E-02
         TOTAL TIME 1.01952E+07 1.69920E+05  2832.0      118.00
0.32307
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  27 IN STRESS PERIOD
5
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    5   TIME STEP   27
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 27,
STRESS PERIOD   5
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 27,
STRESS PERIOD   5
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 27,
STRESS PERIOD   5
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 27,
STRESS PERIOD   5
1
              HEAD IN LAYER   1 AT END OF TIME STEP  27 IN STRESS
PERIOD    5
  -----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

...................................................................
.....................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
```

```
        0.7123       0.7317       0.7509       0.7700
   4    0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
        0.7124       0.7317       0.7509       0.7700
   5    0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
        0.7124       0.7317       0.7509       0.7700
   6    0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
        0.7125       0.7318       0.7510       0.7700
   7    0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
        0.7126       0.7318       0.7510       0.7700
   8    0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
        0.7126       0.7319       0.7510       0.7700
   9    0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
        0.7127       0.7319       0.7510       0.7700
  10    0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
        0.7127       0.7319       0.7510       0.7700
  11    0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
        0.7127       0.7319       0.7510       0.7700
  12    0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
        0.7127       0.7319       0.7510       0.7700
  13    0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
        0.7127       0.7319       0.7510       0.7700
  14    0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
        0.7126       0.7319       0.7510       0.7700
  15    0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
        0.7126       0.7318       0.7510       0.7700
  16    0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
        0.7125       0.7318       0.7510       0.7700
  17    0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
        0.7125       0.7318       0.7509       0.7700
  18    0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
        0.7124       0.7317       0.7509       0.7700
  19    0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
        0.7124       0.7317       0.7509       0.7700
  20    0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
        0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   27, STRESS
PERIOD    5
1
```

```
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   27,
STRESS PERIOD   5
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000                STORAGE =
0.0000
       CONSTANT HEAD =        1844.0594          CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                  WELLS =
0.0000

            TOTAL IN =        1844.0594               TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000                STORAGE =
0.0000
       CONSTANT HEAD =        1843.9843          CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                  WELLS =
0.0000

           TOTAL OUT =        1843.9843              TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02               IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   27 IN STRESS PERIOD
5
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.33280E+06  38880.      648.00      27.000
7.39220E-02
         TOTAL TIME 1.02816E+07 1.71360E+05  2856.0      119.00
0.32580
```

```
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  28 IN STRESS PERIOD
5
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    5   TIME STEP   28
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 28,
STRESS PERIOD   5
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 28,
STRESS PERIOD   5
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 28,
STRESS PERIOD   5
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 28,
STRESS PERIOD   5
1
              HEAD IN LAYER   1 AT END OF TIME STEP  28 IN STRESS
PERIOD    5
  -----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

...................................................................
.......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
```

```
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   28, STRESS
PERIOD    5
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   28,
STRESS PERIOD   5
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                       IN:
           ---                                       ---
             STORAGE =           0.0000                STORAGE =
0.0000
       CONSTANT HEAD =        1859.5542          CONSTANT HEAD =
1.7934E-04
```

```
              WELLS =           0.0000                  WELLS =
0.0000

           TOTAL IN =        1859.5542               TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
            STORAGE =           0.0000                STORAGE =
0.0000
      CONSTANT HEAD =        1859.4790          CONSTANT HEAD =
1.7934E-04
              WELLS =           0.0000                  WELLS =
0.0000

          TOTAL OUT =        1859.4790              TOTAL OUT =
1.7934E-04

           IN - OUT =       7.5195E-02               IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   28 IN STRESS PERIOD
5
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.41920E+06  40320.      672.00      28.000
7.66598E-02
         TOTAL TIME 1.03680E+07 1.72800E+05  2880.0      120.00
0.32854
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  29 IN STRESS PERIOD
5
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    5   TIME STEP   29
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 29,
STRESS PERIOD   5
```

```
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 29,
STRESS PERIOD   5
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 29,
STRESS PERIOD   5
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 29,
STRESS PERIOD   5
1
              HEAD IN LAYER   1 AT END OF TIME STEP  29 IN STRESS
PERIOD    5
  -----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

.................................................................
.....................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  11   0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
       0.7127      0.7319      0.7510      0.7700
  12   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  13   0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
```

```
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   29, STRESS
PERIOD    5
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   29,
STRESS PERIOD   5
  ----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        1875.0490        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

            TOTAL IN =        1875.0490             TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        1874.9738        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000
```

```
           TOTAL OUT =        1874.9738               TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02                IN - OUT =
0.0000

 PERCENT DISCREPANCY =            0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   29 IN STRESS PERIOD
5
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.50560E+06  41760.      696.00      29.000
7.93977E-02
         TOTAL TIME 1.04544E+07 1.74240E+05  2904.0      121.00
0.33128
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  30 IN STRESS PERIOD
5
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    5   TIME STEP   30
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 30,
STRESS PERIOD   5
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 30,
STRESS PERIOD   5
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 30,
STRESS PERIOD   5
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 30,
STRESS PERIOD   5
1
              HEAD IN LAYER   1 AT END OF TIME STEP   30 IN STRESS
PERIOD    5
  ------------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14
```

```
.....................................................................
........................................................
   1  0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
      0.7123       0.7317       0.7509       0.7700
   2  0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
      0.7123       0.7317       0.7509       0.7700
   3  0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
      0.7123       0.7317       0.7509       0.7700
   4  0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
      0.7124       0.7317       0.7509       0.7700
   5  0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
      0.7124       0.7317       0.7509       0.7700
   6  0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
      0.7125       0.7318       0.7510       0.7700
   7  0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
      0.7126       0.7318       0.7510       0.7700
   8  0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
      0.7126       0.7319       0.7510       0.7700
   9  0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
      0.7127       0.7319       0.7510       0.7700
  10  0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
      0.7127       0.7319       0.7510       0.7700
  11  0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
      0.7127       0.7319       0.7510       0.7700
  12  0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
      0.7127       0.7319       0.7510       0.7700
  13  0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
      0.7127       0.7319       0.7510       0.7700
  14  0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
      0.7126       0.7319       0.7510       0.7700
  15  0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
      0.7126       0.7318       0.7510       0.7700
  16  0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
      0.7125       0.7318       0.7510       0.7700
  17  0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
      0.7125       0.7318       0.7509       0.7700
  18  0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
```

```
       0.7124      0.7317      0.7509      0.7700
  19   0.5100      0.5311      0.5520      0.5727      0.5932
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
  20   0.5100      0.5311      0.5519      0.5726      0.5932
0.6135      0.6336      0.6535      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   30, STRESS
PERIOD    5
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   30,
STRESS PERIOD   5
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        1890.5437       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        1890.5437            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        1890.4685       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =        1890.4685           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02            IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00
```

```
        TIME SUMMARY AT END OF TIME STEP   30 IN STRESS PERIOD
5
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.59200E+06  43200.      720.00      30.000
8.21355E-02
         TOTAL TIME 1.05408E+07 1.75680E+05  2928.0      122.00
0.33402
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  31 IN STRESS PERIOD
5
     1 TOTAL ITERATIONS

 MAXIMUM HEAD CHANGE FOR EACH ITERATION (1 INDICATES THE FIRST
INNER ITERATION):

    HEAD CHANGE    HEAD CHANGE    HEAD CHANGE    HEAD CHANGE
HEAD CHANGE
   LAYER,ROW,COL  LAYER,ROW,COL  LAYER,ROW,COL  LAYER,ROW,COL
LAYER,ROW,COL
 ------------------------------------------------------------------
----------
  1  0.2530E-15
   (  1,   4,   9)

 MAXIMUM RESIDUAL FOR EACH ITERATION (1 INDICATES THE FIRST INNER
ITERATION):

    RESIDUAL       RESIDUAL       RESIDUAL       RESIDUAL
RESIDUAL
   LAYER,ROW,COL  LAYER,ROW,COL  LAYER,ROW,COL  LAYER,ROW,COL
LAYER,ROW,COL
 ------------------------------------------------------------------
----------
  1  0.1104E-18
   (  1,   6,   9)



 OUTPUT CONTROL FOR STRESS PERIOD    5   TIME STEP   31
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 31,
STRESS PERIOD   5
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 31,
STRESS PERIOD   5
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 31,
STRESS PERIOD   5
```

```
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 31,
STRESS PERIOD    5
1
              HEAD IN LAYER   1 AT END OF TIME STEP  31 IN STRESS
PERIOD    5
  ----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

..................................................................
...........................................................
   1    0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
        0.7123      0.7317      0.7509      0.7700
   2    0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
        0.7123      0.7317      0.7509      0.7700
   3    0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
        0.7123      0.7317      0.7509      0.7700
   4    0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
        0.7124      0.7317      0.7509      0.7700
   5    0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
        0.7124      0.7317      0.7509      0.7700
   6    0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
        0.7125      0.7318      0.7510      0.7700
   7    0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
        0.7126      0.7318      0.7510      0.7700
   8    0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
        0.7126      0.7319      0.7510      0.7700
   9    0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
        0.7127      0.7319      0.7510      0.7700
  10    0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
        0.7127      0.7319      0.7510      0.7700
  11    0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
        0.7127      0.7319      0.7510      0.7700
  12    0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
        0.7127      0.7319      0.7510      0.7700
  13    0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
        0.7127      0.7319      0.7510      0.7700
  14    0.5100      0.5320      0.5536      0.5745      0.5948
0.6148      0.6346      0.6543      0.6739      0.6933
        0.7126      0.7319      0.7510      0.7700
```

```
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   31, STRESS
PERIOD    5
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   31,
STRESS PERIOD   5
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000                STORAGE =
0.0000
       CONSTANT HEAD =        1906.0385          CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                  WELLS =
0.0000

            TOTAL IN =        1906.0385               TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000                STORAGE =
0.0000
       CONSTANT HEAD =        1905.9633          CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                  WELLS =
0.0000

           TOTAL OUT =        1905.9633              TOTAL OUT =
1.7934E-04
```

```
             IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   31 IN STRESS PERIOD
5
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.67840E+06  44640.      744.00      31.000
8.48734E-02
         TOTAL TIME 1.06272E+07 1.77120E+05  2952.0      123.00
0.33676
1
1
                            STRESS PERIOD NO.    6, LENGTH =
2678400.
                            ---------------------------------------
---------

                              NUMBER OF TIME STEPS =    31

                               MULTIPLIER FOR DELT =     1.000

                            INITIAL TIME STEP SIZE =   86400.00

 WELL NO.  LAYER   ROW   COL   STRESS RATE
 --------------------------------------------------
      1      1     11      2     -100.00

      1 WELL

 SOLVING FOR HEAD


     1 CALLS TO PCG ROUTINE FOR TIME STEP   1 IN STRESS PERIOD
6
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    6   TIME STEP    1
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  1,
STRESS PERIOD   6
```

```
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  1,
STRESS PERIOD   6
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  1,
STRESS PERIOD   6
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  1,
STRESS PERIOD   6
1
              HEAD IN LAYER   1 AT END OF TIME STEP   1 IN STRESS
PERIOD    6
  ---------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

.................................................................
.....................................................
   1    0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2    0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3    0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4    0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5    0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6    0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7    0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8    0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9    0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10    0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  11    0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
       0.7127      0.7319      0.7510      0.7700
  12    0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  13    0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
```

```
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    1, STRESS
PERIOD    6
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    1,
STRESS PERIOD   6
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        1921.5332       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        1921.5332            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        1921.4580       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000
```

```
           TOTAL OUT =        1921.4580             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =            0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    1 IN STRESS PERIOD
6
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME  86400.      1440.0      24.000     1.00000
2.73785E-03
         TOTAL TIME 1.07136E+07 1.78560E+05  2976.0      124.00
0.33949
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   2 IN STRESS PERIOD
6
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    6   TIME STEP    2
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  2,
STRESS PERIOD   6
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  2,
STRESS PERIOD   6
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  2,
STRESS PERIOD   6
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  2,
STRESS PERIOD   6
1
              HEAD IN LAYER   1 AT END OF TIME STEP   2 IN STRESS
PERIOD    6
  ------------------------------------------------------------------
-----------

           1           2           3            4            5
6          7           8           9           10
          11          12          13           14
```

```
......................................................................
..........................................................
   1   0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
```

```
       0.7124      0.7317      0.7509      0.7700
  19   0.5100      0.5311      0.5520      0.5727      0.5932
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
  20   0.5100      0.5311      0.5519      0.5726      0.5932
0.6135      0.6336      0.6535      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    2, STRESS
PERIOD    6
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    2,
STRESS PERIOD   6
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        1937.0280         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =        1937.0280              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        1936.9528         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =        1936.9528             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00
```

```
          TIME SUMMARY AT END OF TIME STEP    2 IN STRESS PERIOD
6
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.72800E+05  2880.0      48.000      2.0000
5.47570E-03
         TOTAL TIME 1.08000E+07 1.80000E+05  3000.0      125.00
0.34223
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   3 IN STRESS PERIOD
6
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    6   TIME STEP    3
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  3,
STRESS PERIOD   6
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  3,
STRESS PERIOD   6
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  3,
STRESS PERIOD   6
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  3,
STRESS PERIOD   6
1
              HEAD IN LAYER   1 AT END OF TIME STEP   3 IN STRESS
PERIOD    6
  ------------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

..................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
```

```
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    3, STRESS
PERIOD    6
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    3,
STRESS PERIOD   6
  ------------------------------------------------------------------
--------------
```

```
     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =          0.0000               STORAGE =
0.0000
       CONSTANT HEAD =       1952.5227         CONSTANT HEAD =
1.7934E-04
               WELLS =          0.0000                 WELLS =
0.0000

            TOTAL IN =       1952.5227              TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
             STORAGE =          0.0000               STORAGE =
0.0000
       CONSTANT HEAD =       1952.4475         CONSTANT HEAD =
1.7934E-04
               WELLS =          0.0000                 WELLS =
0.0000

           TOTAL OUT =       1952.4475             TOTAL OUT =
1.7934E-04

            IN - OUT =      7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =            0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    3 IN STRESS PERIOD
6
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.59200E+05  4320.0      72.000      3.0000
8.21355E-03
         TOTAL TIME 1.08864E+07 1.81440E+05  3024.0      126.00
0.34497
1

 SOLVING FOR HEAD
```

```
     1 CALLS TO PCG ROUTINE FOR TIME STEP   4 IN STRESS PERIOD
6
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    6   TIME STEP    4
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  4,
STRESS PERIOD   6
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  4,
STRESS PERIOD   6
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  4,
STRESS PERIOD   6
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  4,
STRESS PERIOD   6
1
              HEAD IN LAYER   1 AT END OF TIME STEP   4 IN STRESS
PERIOD    6
  ------------------------------------------------------------------
-----------

            1            2            3            4            5
6           7            8            9           10
           11           12           13           14

....................................................................
......................................................
   1   0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
```

```
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    4, STRESS
PERIOD    6
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    4,
STRESS PERIOD   6
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        1968.0175        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000
```

```
            TOTAL IN =        1968.0175               TOTAL IN =
1.7934E-04

          OUT:                                      OUT:
          ----                                      ----
             STORAGE =           0.0000                STORAGE =
0.0000
       CONSTANT HEAD =        1967.9423          CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                  WELLS =
0.0000

           TOTAL OUT =        1967.9423              TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02               IN - OUT =
0.0000

 PERCENT DISCREPANCY =             0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    4 IN STRESS PERIOD
6
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 3.45600E+05  5760.0      96.000      4.0000
1.09514E-02
         TOTAL TIME 1.09728E+07 1.82880E+05  3048.0      127.00
0.34771
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP    5 IN STRESS PERIOD
6
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    6   TIME STEP    5
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  5,
STRESS PERIOD   6
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  5,
STRESS PERIOD   6
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  5,
STRESS PERIOD   6
```

```
 UBDSV4 SAVING "          WELLS" ON UNIT 953 AT TIME STEP  5,
STRESS PERIOD   6
1
            HEAD IN LAYER   1 AT END OF TIME STEP   5 IN STRESS
PERIOD    6
  ---------------------------------------------------------------
----------

          1           2           3           4           5
6         7           8           9          10
         11          12          13          14

.................................................................
...................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  11   0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
       0.7127      0.7319      0.7510      0.7700
  12   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  13   0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  14   0.5100      0.5320      0.5536      0.5745      0.5948
0.6148      0.6346      0.6543      0.6739      0.6933
       0.7126      0.7319      0.7510      0.7700
```

```
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    5, STRESS
PERIOD    6
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    5,
STRESS PERIOD   6
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        1983.5122       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        1983.5122            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        1983.4370       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =        1983.4370           TOTAL OUT =
1.7934E-04
```

```
            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    5 IN STRESS PERIOD
6
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 4.32000E+05  7200.0      120.00      5.0000
1.36893E-02
         TOTAL TIME 1.10592E+07 1.84320E+05  3072.0      128.00
0.35044
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   6 IN STRESS PERIOD
6
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    6   TIME STEP    6
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  6,
STRESS PERIOD   6
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  6,
STRESS PERIOD   6
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  6,
STRESS PERIOD   6
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  6,
STRESS PERIOD   6
1
              HEAD IN LAYER   1 AT END OF TIME STEP   6 IN STRESS
PERIOD    6
  -----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

...................................................................
.......................................................
```

```
   1   0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
```

```
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    6, STRESS
PERIOD    6
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    6,
STRESS PERIOD   6
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        1999.0070       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        1999.0070            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        1998.9318       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =        1998.9318           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02            IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    6 IN STRESS PERIOD
6
                    SECONDS      MINUTES       HOURS        DAYS
YEARS
```

```
                    ----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 5.18400E+05  8640.0      144.00      6.0000
1.64271E-02
         TOTAL TIME 1.11456E+07 1.85760E+05  3096.0      129.00
0.35318
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   7 IN STRESS PERIOD
6
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    6   TIME STEP    7
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  7,
STRESS PERIOD   6
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  7,
STRESS PERIOD   6
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  7,
STRESS PERIOD   6
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  7,
STRESS PERIOD   6
1
              HEAD IN LAYER   1 AT END OF TIME STEP   7 IN STRESS
PERIOD    6
  ------------------------------------------------------------------
-----------

          1           2           3           4           5
6         7           8           9          10
         11          12          13          14

...................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
```

```
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    7, STRESS
PERIOD    6
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    7,
STRESS PERIOD   6
  ---------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
```

```
     ------------------                   ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =            0.0000              STORAGE =
0.0000
       CONSTANT HEAD =         2014.5017        CONSTANT HEAD =
1.7934E-04
               WELLS =            0.0000                WELLS =
0.0000

            TOTAL IN =         2014.5017             TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =            0.0000              STORAGE =
0.0000
       CONSTANT HEAD =         2014.4265        CONSTANT HEAD =
1.7934E-04
               WELLS =            0.0000                WELLS =
0.0000

           TOTAL OUT =         2014.4265            TOTAL OUT =
1.7934E-04

            IN - OUT =        7.5195E-02             IN - OUT =
0.0000

 PERCENT DISCREPANCY =              0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    7 IN STRESS PERIOD
6
                    SECONDS      MINUTES      HOURS        DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.       1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 6.04800E+05  10080.       168.00      7.0000
1.91650E-02
         TOTAL TIME 1.12320E+07 1.87200E+05  3120.0      130.00
0.35592
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   8 IN STRESS PERIOD
6
     1 TOTAL ITERATIONS
```

```
 OUTPUT CONTROL FOR STRESS PERIOD    6   TIME STEP    8
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  8,
STRESS PERIOD   6
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  8,
STRESS PERIOD   6
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  8,
STRESS PERIOD   6
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  8,
STRESS PERIOD   6
1
              HEAD IN LAYER   1 AT END OF TIME STEP   8 IN STRESS
PERIOD    6
  ----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

..................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
```

```
  11    0.5100      -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
        0.7127       0.7319       0.7510       0.7700
  12    0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
        0.7127       0.7319       0.7510       0.7700
  13    0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
        0.7127       0.7319       0.7510       0.7700
  14    0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
        0.7126       0.7319       0.7510       0.7700
  15    0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
        0.7126       0.7318       0.7510       0.7700
  16    0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
        0.7125       0.7318       0.7510       0.7700
  17    0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
        0.7125       0.7318       0.7509       0.7700
  18    0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
        0.7124       0.7317       0.7509       0.7700
  19    0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
        0.7124       0.7317       0.7509       0.7700
  20    0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
        0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    8, STRESS
PERIOD    6
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    8,
STRESS PERIOD    6
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        2029.9965         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =        2029.9965              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
```

```
          ----                                      ----
             STORAGE =           0.0000                 STORAGE =
0.0000
       CONSTANT HEAD =        2029.9213           CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                   WELLS =
0.0000

           TOTAL OUT =        2029.9213               TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02                IN - OUT =
0.0000

 PERCENT DISCREPANCY =             0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    8 IN STRESS PERIOD
6
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 6.91200E+05  11520.      192.00      8.0000
2.19028E-02
         TOTAL TIME 1.13184E+07 1.88640E+05  3144.0      131.00
0.35866
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   9 IN STRESS PERIOD
6
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    6   TIME STEP    9
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  9,
STRESS PERIOD   6
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  9,
STRESS PERIOD   6
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  9,
STRESS PERIOD   6
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  9,
STRESS PERIOD   6
1
```

```
              HEAD IN LAYER   1 AT END OF TIME STEP   9 IN STRESS
PERIOD    6
  ---------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

.................................................................
.....................................................
   1    0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
        0.7123      0.7317      0.7509      0.7700
   2    0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
        0.7123      0.7317      0.7509      0.7700
   3    0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
        0.7123      0.7317      0.7509      0.7700
   4    0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
        0.7124      0.7317      0.7509      0.7700
   5    0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
        0.7124      0.7317      0.7509      0.7700
   6    0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
        0.7125      0.7318      0.7510      0.7700
   7    0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
        0.7126      0.7318      0.7510      0.7700
   8    0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
        0.7126      0.7319      0.7510      0.7700
   9    0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
        0.7127      0.7319      0.7510      0.7700
  10    0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
        0.7127      0.7319      0.7510      0.7700
  11    0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
        0.7127      0.7319      0.7510      0.7700
  12    0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
        0.7127      0.7319      0.7510      0.7700
  13    0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
        0.7127      0.7319      0.7510      0.7700
  14    0.5100      0.5320      0.5536      0.5745      0.5948
0.6148      0.6346      0.6543      0.6739      0.6933
        0.7126      0.7319      0.7510      0.7700
  15    0.5100      0.5316      0.5529      0.5738      0.5942
0.6144      0.6343      0.6541      0.6737      0.6932
        0.7126      0.7318      0.7510      0.7700
```

```
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    9, STRESS
PERIOD    6
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    9,
STRESS PERIOD   6
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        2045.4912        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

            TOTAL IN =        2045.4912             TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        2045.4160        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

           TOTAL OUT =        2045.4160            TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02             IN - OUT =
0.0000
```

```
 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    9 IN STRESS PERIOD
6
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 7.77600E+05  12960.      216.00      9.0000
2.46407E-02
         TOTAL TIME 1.14048E+07 1.90080E+05  3168.0      132.00
0.36140
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  10 IN STRESS PERIOD
6
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    6   TIME STEP   10
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 10,
STRESS PERIOD   6
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 10,
STRESS PERIOD   6
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 10,
STRESS PERIOD   6
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 10,
STRESS PERIOD   6
1
              HEAD IN LAYER   1 AT END OF TIME STEP  10 IN STRESS
PERIOD    6
  -----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

...................................................................
.......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
```

```
    2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
        0.7123       0.7317       0.7509       0.7700
    3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
        0.7123       0.7317       0.7509       0.7700
    4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
        0.7124       0.7317       0.7509       0.7700
    5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
        0.7124       0.7317       0.7509       0.7700
    6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
        0.7125       0.7318       0.7510       0.7700
    7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
        0.7126       0.7318       0.7510       0.7700
    8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
        0.7126       0.7319       0.7510       0.7700
    9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
        0.7127       0.7319       0.7510       0.7700
   10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
        0.7127       0.7319       0.7510       0.7700
   11   0.5100     -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
        0.7127       0.7319       0.7510       0.7700
   12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
        0.7127       0.7319       0.7510       0.7700
   13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
        0.7127       0.7319       0.7510       0.7700
   14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
        0.7126       0.7319       0.7510       0.7700
   15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
        0.7126       0.7318       0.7510       0.7700
   16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
        0.7125       0.7318       0.7510       0.7700
   17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
        0.7125       0.7318       0.7509       0.7700
   18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
        0.7124       0.7317       0.7509       0.7700
   19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
        0.7124       0.7317       0.7509       0.7700
   20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
```

```
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   10, STRESS
PERIOD    6
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   10,
STRESS PERIOD   6
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        2060.9858       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        2060.9858            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        2060.9106       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =        2060.9106           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02            IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   10 IN STRESS PERIOD
6
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
```

```
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 8.64000E+05  14400.      240.00     10.0000
2.73785E-02
         TOTAL TIME 1.14912E+07 1.91520E+05  3192.0      133.00
0.36413
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  11 IN STRESS PERIOD
6
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    6   TIME STEP   11
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 11,
STRESS PERIOD   6
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 11,
STRESS PERIOD   6
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 11,
STRESS PERIOD   6
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 11,
STRESS PERIOD   6
1
              HEAD IN LAYER   1 AT END OF TIME STEP  11 IN STRESS
PERIOD    6
  ------------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

....................................................................
.......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
```

```
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   11, STRESS
PERIOD    6
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   11,
STRESS PERIOD   6
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
```

```
          ---                                       ---
            STORAGE =           0.0000                STORAGE =
0.0000
      CONSTANT HEAD =        2076.4805          CONSTANT HEAD =
1.7934E-04
              WELLS =           0.0000                  WELLS =
0.0000

           TOTAL IN =        2076.4805               TOTAL IN =
1.7934E-04

          OUT:                                      OUT:
          ----                                      ----
            STORAGE =           0.0000                STORAGE =
0.0000
      CONSTANT HEAD =        2076.4053          CONSTANT HEAD =
1.7934E-04
              WELLS =           0.0000                  WELLS =
0.0000

          TOTAL OUT =        2076.4053              TOTAL OUT =
1.7934E-04

           IN - OUT =       7.5195E-02               IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   11 IN STRESS PERIOD
6
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 9.50400E+05  15840.      264.00      11.000
3.01164E-02
         TOTAL TIME 1.15776E+07 1.92960E+05  3216.0      134.00
0.36687
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  12 IN STRESS PERIOD
6
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    6   TIME STEP   12
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
```

```
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 12,
STRESS PERIOD   6
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 12,
STRESS PERIOD   6
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 12,
STRESS PERIOD   6
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 12,
STRESS PERIOD   6
1
              HEAD IN LAYER   1 AT END OF TIME STEP  12 IN STRESS
PERIOD    6
  -----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

.................................................................
.....................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  11   0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
       0.7127      0.7319      0.7510      0.7700
```

```
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   12, STRESS
PERIOD    6
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   12,
STRESS PERIOD   6
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        2091.9751       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        2091.9751            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =
0.0000
```

```
       CONSTANT HEAD =        2091.8999         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =        2091.8999             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   12 IN STRESS PERIOD
6
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.03680E+06  17280.      288.00      12.000
3.28542E-02
         TOTAL TIME 1.16640E+07 1.94400E+05  3240.0      135.00
0.36961
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  13 IN STRESS PERIOD
6
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    6   TIME STEP   13
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 13,
STRESS PERIOD   6
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 13,
STRESS PERIOD   6
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 13,
STRESS PERIOD   6
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 13,
STRESS PERIOD   6
1
              HEAD IN LAYER   1 AT END OF TIME STEP  13 IN STRESS
PERIOD    6
  -----------------------------------------------------------------
-----------
```

```
              1            2            3            4            5
6             7            8            9           10
             11           12           13           14

.....................................................................
........................................................
   1   0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100     -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
```

```
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   13, STRESS
PERIOD    6
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   13,
STRESS PERIOD   6
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        2107.4697       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        2107.4697            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        2107.3945       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =        2107.3945           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02            IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00
```

```
         TIME SUMMARY AT END OF TIME STEP   13 IN STRESS PERIOD
6
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.12320E+06  18720.      312.00      13.000
3.55921E-02
         TOTAL TIME 1.17504E+07 1.95840E+05  3264.0      136.00
0.37235
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  14 IN STRESS PERIOD
6
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    6   TIME STEP   14
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 14,
STRESS PERIOD   6
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 14,
STRESS PERIOD   6
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 14,
STRESS PERIOD   6
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 14,
STRESS PERIOD   6
1
              HEAD IN LAYER   1 AT END OF TIME STEP  14 IN STRESS
PERIOD    6
  ------------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

...................................................................
.....................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
```

```
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   14, STRESS
PERIOD    6
1
```

VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP 14,
STRESS PERIOD 6

CUMULATIVE VOLUMES L**3 RATES FOR THIS TIME STEP
L**3/T
------------------ ------------------------

IN: IN:
--- ---
STORAGE = 0.0000 STORAGE =
0.0000
CONSTANT HEAD = 2122.9644 CONSTANT HEAD =
1.7934E-04
WELLS = 0.0000 WELLS =
0.0000

TOTAL IN = 2122.9644 TOTAL IN =
1.7934E-04

OUT: OUT:
---- ----
STORAGE = 0.0000 STORAGE =
0.0000
CONSTANT HEAD = 2122.8892 CONSTANT HEAD =
1.7934E-04
WELLS = 0.0000 WELLS =
0.0000

TOTAL OUT = 2122.8892 TOTAL OUT =
1.7934E-04

IN - OUT = 7.5195E-02 IN - OUT =
0.0000

PERCENT DISCREPANCY = 0.00 PERCENT DISCREPANCY =
0.00

TIME SUMMARY AT END OF TIME STEP 14 IN STRESS PERIOD
6

	SECONDS	MINUTES	HOURS	DAYS	YEARS
TIME STEP LENGTH	86400.	1440.0	24.000	1.00000	2.73785E-03
STRESS PERIOD TIME	1.20960E+06	20160.	336.00	14.000	3.83299E-02
TOTAL TIME	1.18368E+07	1.97280E+05	3288.0	137.00	0.37509

```
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  15 IN STRESS PERIOD
6
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    6   TIME STEP   15
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 15,
STRESS PERIOD   6
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 15,
STRESS PERIOD   6
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 15,
STRESS PERIOD   6
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 15,
STRESS PERIOD   6
1
              HEAD IN LAYER   1 AT END OF TIME STEP  15 IN STRESS
PERIOD    6
  -----------------------------------------------------------------
-----------

            1            2            3            4            5
6           7            8            9           10
           11           12           13           14

...................................................................
.......................................................
   1   0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
```

```
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   15, STRESS
PERIOD    6
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   15,
STRESS PERIOD    6
  ----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        2138.4590         CONSTANT HEAD =
1.7934E-04
```

```
                WELLS =           0.0000                    WELLS =
0.0000

             TOTAL IN =        2138.4590                 TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
              STORAGE =           0.0000                  STORAGE =
0.0000
        CONSTANT HEAD =        2138.3838            CONSTANT HEAD =
1.7934E-04
                WELLS =           0.0000                    WELLS =
0.0000

            TOTAL OUT =        2138.3838                TOTAL OUT =
1.7934E-04

             IN - OUT =       7.5195E-02                 IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00      PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   15 IN STRESS PERIOD
6
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.29600E+06  21600.      360.00      15.000
4.10678E-02
         TOTAL TIME 1.19232E+07 1.98720E+05  3312.0      138.00
0.37782
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  16 IN STRESS PERIOD
6
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    6   TIME STEP   16
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 16,
STRESS PERIOD   6
```

```
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 16,
STRESS PERIOD   6
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 16,
STRESS PERIOD   6
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 16,
STRESS PERIOD   6
1
              HEAD IN LAYER   1 AT END OF TIME STEP  16 IN STRESS
PERIOD    6
  ----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

..................................................................
......................................................
   1    0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
        0.7123      0.7317      0.7509      0.7700
   2    0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
        0.7123      0.7317      0.7509      0.7700
   3    0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
        0.7123      0.7317      0.7509      0.7700
   4    0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
        0.7124      0.7317      0.7509      0.7700
   5    0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
        0.7124      0.7317      0.7509      0.7700
   6    0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
        0.7125      0.7318      0.7510      0.7700
   7    0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
        0.7126      0.7318      0.7510      0.7700
   8    0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
        0.7126      0.7319      0.7510      0.7700
   9    0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
        0.7127      0.7319      0.7510      0.7700
  10    0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
        0.7127      0.7319      0.7510      0.7700
  11    0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
        0.7127      0.7319      0.7510      0.7700
  12    0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
        0.7127      0.7319      0.7510      0.7700
  13    0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
```

```
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   16, STRESS
PERIOD    6
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   16,
STRESS PERIOD   6
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        2153.9536         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =        2153.9536              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        2153.8784         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000
```

```
           TOTAL OUT =        2153.8784            TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02             IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   16 IN STRESS PERIOD
6
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    ----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.38240E+06  23040.      384.00      16.000
4.38056E-02
         TOTAL TIME 1.20096E+07 2.00160E+05  3336.0      139.00
0.38056
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  17 IN STRESS PERIOD
6
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    6   TIME STEP   17
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 17,
STRESS PERIOD   6
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 17,
STRESS PERIOD   6
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 17,
STRESS PERIOD   6
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 17,
STRESS PERIOD   6
1
              HEAD IN LAYER   1 AT END OF TIME STEP  17 IN STRESS
PERIOD    6
  ----------------------------------------------------------------
-----------

            1           2           3            4            5
6           7           8           9           10
           11          12          13           14
```

```
...................................................................
.......................................................
   1  0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
      0.7123       0.7317       0.7509       0.7700
   2  0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
      0.7123       0.7317       0.7509       0.7700
   3  0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
      0.7123       0.7317       0.7509       0.7700
   4  0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
      0.7124       0.7317       0.7509       0.7700
   5  0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
      0.7124       0.7317       0.7509       0.7700
   6  0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
      0.7125       0.7318       0.7510       0.7700
   7  0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
      0.7126       0.7318       0.7510       0.7700
   8  0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
      0.7126       0.7319       0.7510       0.7700
   9  0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
      0.7127       0.7319       0.7510       0.7700
  10  0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
      0.7127       0.7319       0.7510       0.7700
  11  0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
      0.7127       0.7319       0.7510       0.7700
  12  0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
      0.7127       0.7319       0.7510       0.7700
  13  0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
      0.7127       0.7319       0.7510       0.7700
  14  0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
      0.7126       0.7319       0.7510       0.7700
  15  0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
      0.7126       0.7318       0.7510       0.7700
  16  0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
      0.7125       0.7318       0.7510       0.7700
  17  0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
      0.7125       0.7318       0.7509       0.7700
  18  0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
```

```
       0.7124      0.7317      0.7509      0.7700
  19   0.5100      0.5311      0.5520      0.5727      0.5932
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
  20   0.5100      0.5311      0.5519      0.5726      0.5932
0.6135      0.6336      0.6535      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   17, STRESS
PERIOD    6
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   17,
STRESS PERIOD   6
  -------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        2169.4482         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =        2169.4482              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        2169.3730         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =        2169.3730             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00
```

```
         TIME SUMMARY AT END OF TIME STEP   17 IN STRESS PERIOD
6
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    ----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.46880E+06  24480.      408.00      17.000
4.65435E-02
         TOTAL TIME 1.20960E+07 2.01600E+05  3360.0      140.00
0.38330
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  18 IN STRESS PERIOD
6
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    6   TIME STEP   18
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 18,
STRESS PERIOD   6
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 18,
STRESS PERIOD   6
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 18,
STRESS PERIOD   6
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 18,
STRESS PERIOD   6
1
              HEAD IN LAYER   1 AT END OF TIME STEP  18 IN STRESS
PERIOD    6
  ----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

..................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
```

```
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   18, STRESS
PERIOD    6
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   18,
STRESS PERIOD   6
  ------------------------------------------------------------------
--------------
```

```
     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        2184.9429       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        2184.9429            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        2184.8677       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =        2184.8677           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02            IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   18 IN STRESS PERIOD
6
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.55520E+06  25920.      432.00      18.000
4.92813E-02
         TOTAL TIME 1.21824E+07 2.03040E+05  3384.0      141.00
0.38604
1

 SOLVING FOR HEAD
```

```
     1 CALLS TO PCG ROUTINE FOR TIME STEP  19 IN STRESS PERIOD
6
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    6   TIME STEP   19
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 19,
STRESS PERIOD   6
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 19,
STRESS PERIOD   6
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 19,
STRESS PERIOD   6
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 19,
STRESS PERIOD   6
1
              HEAD IN LAYER   1 AT END OF TIME STEP  19 IN STRESS
PERIOD    6
  ----------------------------------------------------------------
-----------

           1            2            3            4            5
6          7            8            9           10
          11           12           13           14

..................................................................
......................................................
   1   0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
```

```
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   19, STRESS
PERIOD    6
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   19,
STRESS PERIOD   6
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        2200.4375        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000
```

```
           TOTAL IN =        2200.4375               TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
            STORAGE =           0.0000               STORAGE =
0.0000
      CONSTANT HEAD =        2200.3623         CONSTANT HEAD =
1.7934E-04
              WELLS =           0.0000                 WELLS =
0.0000

          TOTAL OUT =        2200.3623              TOTAL OUT =
1.7934E-04

           IN - OUT =       7.5195E-02               IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   19 IN STRESS PERIOD
6
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.64160E+06  27360.      456.00      19.000
5.20192E-02
         TOTAL TIME 1.22688E+07 2.04480E+05  3408.0      142.00
0.38877
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  20 IN STRESS PERIOD
6
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    6   TIME STEP   20
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 20,
STRESS PERIOD   6
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 20,
STRESS PERIOD   6
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 20,
STRESS PERIOD   6
```

```
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 20,
STRESS PERIOD   6
1
            HEAD IN LAYER   1 AT END OF TIME STEP  20 IN STRESS
PERIOD    6
  ---------------------------------------------------------------
-----------

             1           2           3           4           5
6            7           8           9          10
            11          12          13          14

.................................................................
.....................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  11   0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
       0.7127      0.7319      0.7510      0.7700
  12   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  13   0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  14   0.5100      0.5320      0.5536      0.5745      0.5948
0.6148      0.6346      0.6543      0.6739      0.6933
       0.7126      0.7319      0.7510      0.7700
```

```
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   20, STRESS
PERIOD    6
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   20,
STRESS PERIOD   6
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =           0.0000                 STORAGE =
0.0000
       CONSTANT HEAD =        2215.9321           CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                   WELLS =
0.0000

            TOTAL IN =        2215.9321                TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
             STORAGE =           0.0000                 STORAGE =
0.0000
       CONSTANT HEAD =        2215.8569           CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                   WELLS =
0.0000

           TOTAL OUT =        2215.8569               TOTAL OUT =
1.7934E-04
```

```
            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   20 IN STRESS PERIOD
6
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.72800E+06  28800.      480.00      20.000
5.47570E-02
         TOTAL TIME 1.23552E+07 2.05920E+05  3432.0      143.00
0.39151
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  21 IN STRESS PERIOD
6
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    6   TIME STEP   21
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 21,
STRESS PERIOD   6
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 21,
STRESS PERIOD   6
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 21,
STRESS PERIOD   6
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 21,
STRESS PERIOD   6
1
              HEAD IN LAYER   1 AT END OF TIME STEP  21 IN STRESS
PERIOD    6
  -----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

...................................................................
.......................................................
```

```
   1   0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100     -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
```

```
       0.7124      0.7317      0.7509      0.7700
  20   0.5100      0.5311      0.5519      0.5726      0.5932
0.6135      0.6336      0.6535      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   21, STRESS
PERIOD    6
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   21,
STRESS PERIOD   6
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        2231.4268       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        2231.4268            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        2231.3516       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =        2231.3516           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02            IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   21 IN STRESS PERIOD
6
                    SECONDS      MINUTES       HOURS         DAYS
YEARS
```

```
                    ----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.81440E+06  30240.      504.00      21.000
5.74949E-02
         TOTAL TIME 1.24416E+07 2.07360E+05  3456.0      144.00
0.39425
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  22 IN STRESS PERIOD
6
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    6   TIME STEP   22
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 22,
STRESS PERIOD   6
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 22,
STRESS PERIOD   6
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 22,
STRESS PERIOD   6
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 22,
STRESS PERIOD   6
1
              HEAD IN LAYER   1 AT END OF TIME STEP  22 IN STRESS
PERIOD    6
  ------------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

..................................................................
.....................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
```

```
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   22, STRESS
PERIOD    6
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   22,
STRESS PERIOD   6
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
```

```
     ------------------                  ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        2246.9214        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

            TOTAL IN =        2246.9214             TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        2246.8462        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

           TOTAL OUT =        2246.8462            TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02             IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   22 IN STRESS PERIOD
6
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.90080E+06  31680.      528.00      22.000
6.02327E-02
         TOTAL TIME 1.25280E+07 2.08800E+05  3480.0      145.00
0.39699
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  23 IN STRESS PERIOD
6
     1 TOTAL ITERATIONS
```

```
 OUTPUT CONTROL FOR STRESS PERIOD    6   TIME STEP   23
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 23,
STRESS PERIOD   6
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 23,
STRESS PERIOD   6
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 23,
STRESS PERIOD   6
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 23,
STRESS PERIOD   6
1
              HEAD IN LAYER   1 AT END OF TIME STEP  23 IN STRESS
PERIOD    6
  ---------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

.................................................................
.....................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
```

```
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   23, STRESS
PERIOD    6
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   23,
STRESS PERIOD   6
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        2262.4160        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

            TOTAL IN =        2262.4160             TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
```

```
          ----                                        ----
             STORAGE =            0.0000               STORAGE =
0.0000
       CONSTANT HEAD =         2262.3408         CONSTANT HEAD =
1.7934E-04
               WELLS =            0.0000                 WELLS =
0.0000

           TOTAL OUT =         2262.3408             TOTAL OUT =
1.7934E-04

            IN - OUT =        7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =              0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   23 IN STRESS PERIOD
6
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.98720E+06  33120.      552.00      23.000
6.29706E-02
         TOTAL TIME 1.26144E+07 2.10240E+05  3504.0      146.00
0.39973
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  24 IN STRESS PERIOD
6
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    6   TIME STEP   24
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 24,
STRESS PERIOD   6
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 24,
STRESS PERIOD   6
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 24,
STRESS PERIOD   6
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 24,
STRESS PERIOD   6
1
```

```
              HEAD IN LAYER   1 AT END OF TIME STEP  24 IN STRESS
PERIOD    6
  ----------------------------------------------------------------
-----------

            1            2            3            4            5
6           7            8            9           10
           11           12           13           14

..................................................................
.....................................................
   1    0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
        0.7123       0.7317       0.7509       0.7700
   2    0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
        0.7123       0.7317       0.7509       0.7700
   3    0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
        0.7123       0.7317       0.7509       0.7700
   4    0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
        0.7124       0.7317       0.7509       0.7700
   5    0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
        0.7124       0.7317       0.7509       0.7700
   6    0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
        0.7125       0.7318       0.7510       0.7700
   7    0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
        0.7126       0.7318       0.7510       0.7700
   8    0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
        0.7126       0.7319       0.7510       0.7700
   9    0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
        0.7127       0.7319       0.7510       0.7700
  10    0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
        0.7127       0.7319       0.7510       0.7700
  11    0.5100     -1.0000E+30    0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
        0.7127       0.7319       0.7510       0.7700
  12    0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
        0.7127       0.7319       0.7510       0.7700
  13    0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
        0.7127       0.7319       0.7510       0.7700
  14    0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
        0.7126       0.7319       0.7510       0.7700
  15    0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
        0.7126       0.7318       0.7510       0.7700
```

```
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   24, STRESS
PERIOD    6
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   24,
STRESS PERIOD   6
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        2277.9106       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        2277.9106            TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        2277.8354       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =        2277.8354           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02            IN - OUT =
0.0000
```

```
 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   24 IN STRESS PERIOD
6
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.07360E+06  34560.      576.00      24.000
6.57084E-02
         TOTAL TIME 1.27008E+07 2.11680E+05  3528.0      147.00
0.40246
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  25 IN STRESS PERIOD
6
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    6   TIME STEP   25
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 25,
STRESS PERIOD   6
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 25,
STRESS PERIOD   6
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 25,
STRESS PERIOD   6
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 25,
STRESS PERIOD   6
1
              HEAD IN LAYER   1 AT END OF TIME STEP   25 IN STRESS
PERIOD    6
  -----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

...................................................................
.....................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
```

```
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
```

```
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   25, STRESS
PERIOD    6
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   25,
STRESS PERIOD   6
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        2293.4053        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

            TOTAL IN =        2293.4053             TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        2293.3301        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

           TOTAL OUT =        2293.3301            TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02             IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   25 IN STRESS PERIOD
6
                    SECONDS      MINUTES       HOURS        DAYS
YEARS
                    -----------------------------------------------
-------------
```

```
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.16000E+06  36000.      600.00      25.000
6.84463E-02
         TOTAL TIME 1.27872E+07 2.13120E+05  3552.0      148.00
0.40520
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  26 IN STRESS PERIOD
6
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    6   TIME STEP   26
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 26,
STRESS PERIOD   6
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 26,
STRESS PERIOD   6
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 26,
STRESS PERIOD   6
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 26,
STRESS PERIOD   6
1
              HEAD IN LAYER   1 AT END OF TIME STEP  26 IN STRESS
PERIOD    6
  ------------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

..................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
```

```
   7  0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
      0.7126      0.7318      0.7510      0.7700
   8  0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
      0.7126      0.7319      0.7510      0.7700
   9  0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
      0.7127      0.7319      0.7510      0.7700
  10  0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
      0.7127      0.7319      0.7510      0.7700
  11  0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
      0.7127      0.7319      0.7510      0.7700
  12  0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
      0.7127      0.7319      0.7510      0.7700
  13  0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
      0.7127      0.7319      0.7510      0.7700
  14  0.5100      0.5320      0.5536      0.5745      0.5948
0.6148      0.6346      0.6543      0.6739      0.6933
      0.7126      0.7319      0.7510      0.7700
  15  0.5100      0.5316      0.5529      0.5738      0.5942
0.6144      0.6343      0.6541      0.6737      0.6932
      0.7126      0.7318      0.7510      0.7700
  16  0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6341      0.6539      0.6736      0.6931
      0.7125      0.7318      0.7510      0.7700
  17  0.5100      0.5312      0.5522      0.5730      0.5935
0.6138      0.6339      0.6538      0.6735      0.6930
      0.7125      0.7318      0.7509      0.7700
  18  0.5100      0.5311      0.5521      0.5728      0.5933
0.6136      0.6337      0.6536      0.6734      0.6930
      0.7124      0.7317      0.7509      0.7700
  19  0.5100      0.5311      0.5520      0.5727      0.5932
0.6135      0.6336      0.6536      0.6733      0.6929
      0.7124      0.7317      0.7509      0.7700
  20  0.5100      0.5311      0.5519      0.5726      0.5932
0.6135      0.6336      0.6535      0.6733      0.6929
      0.7124      0.7317      0.7509      0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   26, STRESS
PERIOD    6
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   26,
STRESS PERIOD   6
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
```

```
           ---                                       ---
              STORAGE =          0.0000                 STORAGE =
0.0000
        CONSTANT HEAD =       2308.8999           CONSTANT HEAD =
1.7934E-04
                WELLS =          0.0000                   WELLS =
0.0000

             TOTAL IN =       2308.8999                TOTAL IN =
1.7934E-04

          OUT:                                      OUT:
          ----                                      ----
              STORAGE =          0.0000                 STORAGE =
0.0000
        CONSTANT HEAD =       2308.8247           CONSTANT HEAD =
1.7934E-04
                WELLS =          0.0000                   WELLS =
0.0000

            TOTAL OUT =       2308.8247               TOTAL OUT =
1.7934E-04

             IN - OUT =      7.5195E-02                IN - OUT =
0.0000

 PERCENT DISCREPANCY =            0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   26 IN STRESS PERIOD
6
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.24640E+06  37440.      624.00      26.000
7.11841E-02
         TOTAL TIME 1.28736E+07 2.14560E+05  3576.0      149.00
0.40794
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  27 IN STRESS PERIOD
6
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    6   TIME STEP   27
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
```

```
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 27,
STRESS PERIOD   6
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 27,
STRESS PERIOD   6
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 27,
STRESS PERIOD   6
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 27,
STRESS PERIOD   6
1
              HEAD IN LAYER   1 AT END OF TIME STEP  27 IN STRESS
PERIOD    6
  ------------------------------------------------------------------
-----------

            1            2            3            4            5
6           7            8            9           10
           11           12           13           14

...................................................................
.....................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  11   0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
       0.7127      0.7319      0.7510      0.7700
```

```
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   27, STRESS
PERIOD    6
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   27,
STRESS PERIOD   6
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        2324.3945       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        2324.3945            TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
             STORAGE =           0.0000             STORAGE =
0.0000
```

```
       CONSTANT HEAD =        2324.3193         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =        2324.3193             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   27 IN STRESS PERIOD
6
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.33280E+06  38880.      648.00      27.000
7.39220E-02
         TOTAL TIME 1.29600E+07 2.16000E+05  3600.0      150.00
0.41068
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  28 IN STRESS PERIOD
6
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    6   TIME STEP   28
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 28,
STRESS PERIOD   6
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 28,
STRESS PERIOD   6
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 28,
STRESS PERIOD   6
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 28,
STRESS PERIOD   6
1
              HEAD IN LAYER   1 AT END OF TIME STEP  28 IN STRESS
PERIOD    6
  -----------------------------------------------------------------
-----------
```

....

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	0.5100	0.5310	0.5518	0.5725	0.5930	0.6133	0.6334	0.6534	0.6732	0.6928	0.7123	0.7317	0.7509	0.7700
2	0.5100	0.5310	0.5519	0.5725	0.5930	0.6133	0.6334	0.6534	0.6732	0.6928	0.7123	0.7317	0.7509	0.7700
3	0.5100	0.5311	0.5519	0.5726	0.5931	0.6134	0.6335	0.6535	0.6732	0.6929	0.7123	0.7317	0.7509	0.7700
4	0.5100	0.5311	0.5520	0.5727	0.5933	0.6135	0.6336	0.6536	0.6733	0.6929	0.7124	0.7317	0.7509	0.7700
5	0.5100	0.5312	0.5522	0.5730	0.5935	0.6137	0.6338	0.6537	0.6734	0.6930	0.7124	0.7317	0.7509	0.7700
6	0.5100	0.5314	0.5525	0.5733	0.5938	0.6140	0.6340	0.6539	0.6735	0.6931	0.7125	0.7318	0.7510	0.7700
7	0.5100	0.5316	0.5529	0.5737	0.5942	0.6143	0.6343	0.6541	0.6737	0.6932	0.7126	0.7318	0.7510	0.7700
8	0.5100	0.5320	0.5536	0.5744	0.5948	0.6148	0.6346	0.6543	0.6738	0.6933	0.7126	0.7319	0.7510	0.7700
9	0.5100	0.5326	0.5549	0.5755	0.5955	0.6153	0.6349	0.6545	0.6740	0.6934	0.7127	0.7319	0.7510	0.7700
10	0.5100	0.5335	0.5576	0.5772	0.5964	0.6157	0.6352	0.6546	0.6741	0.6934	0.7127	0.7319	0.7510	0.7700
11	0.5100	-1.0000E+30	0.5648	0.5791	0.5970	0.6160	0.6353	0.6547	0.6741	0.6935	0.7127	0.7319	0.7510	0.7700
12	0.5100	0.5335	0.5576	0.5772	0.5964	0.6157	0.6352	0.6546	0.6741	0.6934	0.7127	0.7319	0.7510	0.7700
13	0.5100	0.5326	0.5549	0.5756	0.5955	0.6153	0.6349	0.6545	0.6740	0.6934	0.7127	0.7319	0.7510	0.7700
14	0.5100	0.5320	0.5536	0.5745	0.5948	0.6148	0.6346	0.6543	0.6739	0.6933	0.7126	0.7319	0.7510	0.7700
15	0.5100	0.5316	0.5529	0.5738	0.5942	0.6144	0.6343	0.6541	0.6737	0.6932	0.7126	0.7318	0.7510	0.7700
16	0.5100	0.5314	0.5525	0.5733	0.5938	0.6140	0.6341	0.6539	0.6736	0.6931	0.7125	0.7318	0.7510	0.7700

```
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   28, STRESS
PERIOD    6
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   28,
STRESS PERIOD   6
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        2339.8892        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

            TOTAL IN =        2339.8892             TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        2339.8140        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

           TOTAL OUT =        2339.8140            TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02             IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00
```

```
         TIME SUMMARY AT END OF TIME STEP   28 IN STRESS PERIOD
6
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.41920E+06  40320.      672.00      28.000
7.66598E-02
         TOTAL TIME 1.30464E+07 2.17440E+05  3624.0      151.00
0.41342
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  29 IN STRESS PERIOD
6
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    6   TIME STEP   29
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 29,
STRESS PERIOD   6
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 29,
STRESS PERIOD   6
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 29,
STRESS PERIOD   6
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 29,
STRESS PERIOD   6
1
              HEAD IN LAYER   1 AT END OF TIME STEP  29 IN STRESS
PERIOD    6
  ---------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

.................................................................
.....................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
```

```
        0.7123        0.7317        0.7509        0.7700
   4    0.5100        0.5311        0.5520        0.5727        0.5933
0.6135        0.6336        0.6536        0.6733        0.6929
        0.7124        0.7317        0.7509        0.7700
   5    0.5100        0.5312        0.5522        0.5730        0.5935
0.6137        0.6338        0.6537        0.6734        0.6930
        0.7124        0.7317        0.7509        0.7700
   6    0.5100        0.5314        0.5525        0.5733        0.5938
0.6140        0.6340        0.6539        0.6735        0.6931
        0.7125        0.7318        0.7510        0.7700
   7    0.5100        0.5316        0.5529        0.5737        0.5942
0.6143        0.6343        0.6541        0.6737        0.6932
        0.7126        0.7318        0.7510        0.7700
   8    0.5100        0.5320        0.5536        0.5744        0.5948
0.6148        0.6346        0.6543        0.6738        0.6933
        0.7126        0.7319        0.7510        0.7700
   9    0.5100        0.5326        0.5549        0.5755        0.5955
0.6153        0.6349        0.6545        0.6740        0.6934
        0.7127        0.7319        0.7510        0.7700
  10    0.5100        0.5335        0.5576        0.5772        0.5964
0.6157        0.6352        0.6546        0.6741        0.6934
        0.7127        0.7319        0.7510        0.7700
  11    0.5100       -1.0000E+30  0.5648        0.5791        0.5970
0.6160        0.6353        0.6547        0.6741        0.6935
        0.7127        0.7319        0.7510        0.7700
  12    0.5100        0.5335        0.5576        0.5772        0.5964
0.6157        0.6352        0.6546        0.6741        0.6934
        0.7127        0.7319        0.7510        0.7700
  13    0.5100        0.5326        0.5549        0.5756        0.5955
0.6153        0.6349        0.6545        0.6740        0.6934
        0.7127        0.7319        0.7510        0.7700
  14    0.5100        0.5320        0.5536        0.5745        0.5948
0.6148        0.6346        0.6543        0.6739        0.6933
        0.7126        0.7319        0.7510        0.7700
  15    0.5100        0.5316        0.5529        0.5738        0.5942
0.6144        0.6343        0.6541        0.6737        0.6932
        0.7126        0.7318        0.7510        0.7700
  16    0.5100        0.5314        0.5525        0.5733        0.5938
0.6140        0.6341        0.6539        0.6736        0.6931
        0.7125        0.7318        0.7510        0.7700
  17    0.5100        0.5312        0.5522        0.5730        0.5935
0.6138        0.6339        0.6538        0.6735        0.6930
        0.7125        0.7318        0.7509        0.7700
  18    0.5100        0.5311        0.5521        0.5728        0.5933
0.6136        0.6337        0.6536        0.6734        0.6930
        0.7124        0.7317        0.7509        0.7700
  19    0.5100        0.5311        0.5520        0.5727        0.5932
0.6135        0.6336        0.6536        0.6733        0.6929
        0.7124        0.7317        0.7509        0.7700
  20    0.5100        0.5311        0.5519        0.5726        0.5932
0.6135        0.6336        0.6535        0.6733        0.6929
        0.7124        0.7317        0.7509        0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   29, STRESS
PERIOD    6
1
```

VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP 29,
STRESS PERIOD 6

```
     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                   IN:
           ---                                   ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        2355.3838       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        2355.3838            TOTAL IN =
1.7934E-04

          OUT:                                  OUT:
          ----                                  ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        2355.3086       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =        2355.3086           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02            IN - OUT =
0.0000

 PERCENT DISCREPANCY =             0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   29 IN STRESS PERIOD
6
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.50560E+06  41760.      696.00      29.000
7.93977E-02
         TOTAL TIME 1.31328E+07 2.18880E+05  3648.0      152.00
0.41615
```

```
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  30 IN STRESS PERIOD
6
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    6   TIME STEP   30
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 30,
STRESS PERIOD   6
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 30,
STRESS PERIOD   6
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 30,
STRESS PERIOD   6
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 30,
STRESS PERIOD   6
1
              HEAD IN LAYER   1 AT END OF TIME STEP  30 IN STRESS
PERIOD    6
  ----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

..................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
```

```
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   30, STRESS
PERIOD    6
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   30,
STRESS PERIOD   6
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        2370.8784         CONSTANT HEAD =
1.7934E-04
```

```
             WELLS =          0.0000                 WELLS =
0.0000

          TOTAL IN =       2370.8784              TOTAL IN =
1.7934E-04

          OUT:                                  OUT:
          ----                                  ----
           STORAGE =          0.0000               STORAGE =
0.0000
     CONSTANT HEAD =       2370.8032         CONSTANT HEAD =
1.7934E-04
             WELLS =          0.0000                 WELLS =
0.0000

         TOTAL OUT =       2370.8032             TOTAL OUT =
1.7934E-04

          IN - OUT =      7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =          0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   30 IN STRESS PERIOD
6
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.59200E+06  43200.      720.00      30.000
8.21355E-02
         TOTAL TIME 1.32192E+07 2.20320E+05  3672.0      153.00
0.41889
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  31 IN STRESS PERIOD
6
     1 TOTAL ITERATIONS

 MAXIMUM HEAD CHANGE FOR EACH ITERATION (1 INDICATES THE FIRST
INNER ITERATION):

    HEAD CHANGE    HEAD CHANGE    HEAD CHANGE    HEAD CHANGE
HEAD CHANGE
   LAYER,ROW,COL  LAYER,ROW,COL  LAYER,ROW,COL  LAYER,ROW,COL
LAYER,ROW,COL
```

```
 ------------------------------------------------------------------
----------
  1 -0.2365E-15
   (  1,  3,  8)

 MAXIMUM RESIDUAL FOR EACH ITERATION (1 INDICATES THE FIRST INNER
ITERATION):

    RESIDUAL       RESIDUAL       RESIDUAL       RESIDUAL
RESIDUAL
   LAYER,ROW,COL  LAYER,ROW,COL  LAYER,ROW,COL  LAYER,ROW,COL
LAYER,ROW,COL
 ------------------------------------------------------------------
----------
  1  0.1206E-18
   (  1,  2, 11)



 OUTPUT CONTROL FOR STRESS PERIOD    6   TIME STEP   31
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 31,
STRESS PERIOD   6
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 31,
STRESS PERIOD   6
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 31,
STRESS PERIOD   6
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 31,
STRESS PERIOD   6
1
              HEAD IN LAYER   1 AT END OF TIME STEP  31 IN STRESS
PERIOD    6
  -----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

...................................................................
.......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
```

```
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   31, STRESS
PERIOD    6
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   31,
STRESS PERIOD   6
  ------------------------------------------------------------------
--------------
```

```
     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        2386.3730         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =        2386.3730              TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        2386.2979         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =        2386.2979             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =             0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   31 IN STRESS PERIOD
6
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.67840E+06  44640.      744.00      31.000
8.48734E-02
         TOTAL TIME 1.33056E+07 2.21760E+05  3696.0      154.00
0.42163
1
1
                            STRESS PERIOD NO.    7, LENGTH =
2419200.
```

```
                              ---------------------------------------
---------

                                NUMBER OF TIME STEPS =    28

                                 MULTIPLIER FOR DELT =     1.000

                              INITIAL TIME STEP SIZE =   86400.00

 WELL NO.  LAYER   ROW   COL   STRESS RATE
 --------------------------------------------------
      1      1     11      2     -100.00

      1 WELL

 SOLVING FOR HEAD


     1 CALLS TO PCG ROUTINE FOR TIME STEP   1 IN STRESS PERIOD
7
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    7   TIME STEP    1
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  1,
STRESS PERIOD   7
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  1,
STRESS PERIOD   7
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  1,
STRESS PERIOD   7
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  1,
STRESS PERIOD   7
1
              HEAD IN LAYER   1 AT END OF TIME STEP   1 IN STRESS
PERIOD    7
  -----------------------------------------------------------------
-----------

          1            2            3            4            5
6         7            8            9           10
         11           12           13           14

..................................................................
......................................................
   1   0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
```

```
   4    0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
        0.7124       0.7317       0.7509       0.7700
   5    0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
        0.7124       0.7317       0.7509       0.7700
   6    0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
        0.7125       0.7318       0.7510       0.7700
   7    0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
        0.7126       0.7318       0.7510       0.7700
   8    0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
        0.7126       0.7319       0.7510       0.7700
   9    0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
        0.7127       0.7319       0.7510       0.7700
  10    0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
        0.7127       0.7319       0.7510       0.7700
  11    0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
        0.7127       0.7319       0.7510       0.7700
  12    0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
        0.7127       0.7319       0.7510       0.7700
  13    0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
        0.7127       0.7319       0.7510       0.7700
  14    0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
        0.7126       0.7319       0.7510       0.7700
  15    0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
        0.7126       0.7318       0.7510       0.7700
  16    0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
        0.7125       0.7318       0.7510       0.7700
  17    0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
        0.7125       0.7318       0.7509       0.7700
  18    0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
        0.7124       0.7317       0.7509       0.7700
  19    0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
        0.7124       0.7317       0.7509       0.7700
  20    0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
        0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    1, STRESS
PERIOD    7
1
```

```
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    1,
STRESS PERIOD   7
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        2401.8677       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        2401.8677            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        2401.7925       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =        2401.7925           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02            IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    1 IN STRESS PERIOD
7
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME  86400.      1440.0      24.000     1.00000
2.73785E-03
         TOTAL TIME 1.33920E+07 2.23200E+05  3720.0      155.00
0.42437
```

```
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   2 IN STRESS PERIOD
7
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    7   TIME STEP    2
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  2,
STRESS PERIOD   7
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  2,
STRESS PERIOD   7
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  2,
STRESS PERIOD   7
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  2,
STRESS PERIOD   7
1
              HEAD IN LAYER   1 AT END OF TIME STEP   2 IN STRESS
PERIOD    7
  ----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

..................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
```

```
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    2, STRESS
PERIOD    7
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    2,
STRESS PERIOD   7
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        2417.3623         CONSTANT HEAD =
1.7934E-04
```

```
               WELLS =          0.0000               WELLS =
0.0000

            TOTAL IN =       2417.3623            TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
             STORAGE =          0.0000             STORAGE =
0.0000
       CONSTANT HEAD =       2417.2871       CONSTANT HEAD =
1.7934E-04
               WELLS =          0.0000               WELLS =
0.0000

           TOTAL OUT =       2417.2871           TOTAL OUT =
1.7934E-04

            IN - OUT =      7.5195E-02            IN - OUT =
0.0000

 PERCENT DISCREPANCY =          0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    2 IN STRESS PERIOD
7
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.72800E+05  2880.0      48.000      2.0000
5.47570E-03
         TOTAL TIME 1.34784E+07 2.24640E+05  3744.0      156.00
0.42710
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   3 IN STRESS PERIOD
7
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    7   TIME STEP    3
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  3,
STRESS PERIOD   7
```

```
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  3,
STRESS PERIOD   7
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  3,
STRESS PERIOD   7
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  3,
STRESS PERIOD   7
1
              HEAD IN LAYER   1 AT END OF TIME STEP   3 IN STRESS
PERIOD    7
  ----------------------------------------------------------------
-----------

            1            2            3            4            5
6           7            8            9           10
           11           12           13           14

..................................................................
......................................................
   1    0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
        0.7123       0.7317       0.7509       0.7700
   2    0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
        0.7123       0.7317       0.7509       0.7700
   3    0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
        0.7123       0.7317       0.7509       0.7700
   4    0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
        0.7124       0.7317       0.7509       0.7700
   5    0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
        0.7124       0.7317       0.7509       0.7700
   6    0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
        0.7125       0.7318       0.7510       0.7700
   7    0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
        0.7126       0.7318       0.7510       0.7700
   8    0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
        0.7126       0.7319       0.7510       0.7700
   9    0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
        0.7127       0.7319       0.7510       0.7700
  10    0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
        0.7127       0.7319       0.7510       0.7700
  11    0.5100     -1.0000E+30    0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
        0.7127       0.7319       0.7510       0.7700
  12    0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
        0.7127       0.7319       0.7510       0.7700
  13    0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
```

```
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    3, STRESS
PERIOD    7
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    3,
STRESS PERIOD   7
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        2432.8569        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

            TOTAL IN =        2432.8569             TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        2432.7817        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000
```

```
           TOTAL OUT =        2432.7817              TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02               IN - OUT =
0.0000

 PERCENT DISCREPANCY =            0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    3 IN STRESS PERIOD
7
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.59200E+05  4320.0      72.000      3.0000
8.21355E-03
         TOTAL TIME 1.35648E+07 2.26080E+05  3768.0      157.00
0.42984
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   4 IN STRESS PERIOD
7
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    7   TIME STEP    4
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  4,
STRESS PERIOD   7
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  4,
STRESS PERIOD   7
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  4,
STRESS PERIOD   7
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  4,
STRESS PERIOD   7
1
              HEAD IN LAYER   1 AT END OF TIME STEP   4 IN STRESS
PERIOD    7
  ------------------------------------------------------------------
-----------

            1           2           3            4           5
6           7           8           9           10
           11          12          13           14
```

```
.....................................................................
...............................................................
   1  0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
      0.7123       0.7317       0.7509       0.7700
   2  0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
      0.7123       0.7317       0.7509       0.7700
   3  0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
      0.7123       0.7317       0.7509       0.7700
   4  0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
      0.7124       0.7317       0.7509       0.7700
   5  0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
      0.7124       0.7317       0.7509       0.7700
   6  0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
      0.7125       0.7318       0.7510       0.7700
   7  0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
      0.7126       0.7318       0.7510       0.7700
   8  0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
      0.7126       0.7319       0.7510       0.7700
   9  0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
      0.7127       0.7319       0.7510       0.7700
  10  0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
      0.7127       0.7319       0.7510       0.7700
  11  0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
      0.7127       0.7319       0.7510       0.7700
  12  0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
      0.7127       0.7319       0.7510       0.7700
  13  0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
      0.7127       0.7319       0.7510       0.7700
  14  0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
      0.7126       0.7319       0.7510       0.7700
  15  0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
      0.7126       0.7318       0.7510       0.7700
  16  0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
      0.7125       0.7318       0.7510       0.7700
  17  0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
      0.7125       0.7318       0.7509       0.7700
  18  0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
```

```
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135      0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135      0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    4, STRESS
PERIOD    7
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    4,
STRESS PERIOD   7
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000                STORAGE =
0.0000
       CONSTANT HEAD =        2448.3516          CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                  WELLS =
0.0000

            TOTAL IN =        2448.3516               TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000                STORAGE =
0.0000
       CONSTANT HEAD =        2448.2764          CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                  WELLS =
0.0000

           TOTAL OUT =        2448.2764              TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02               IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00
```

```
         TIME SUMMARY AT END OF TIME STEP    4 IN STRESS PERIOD
7
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 3.45600E+05  5760.0      96.000      4.0000
1.09514E-02
         TOTAL TIME 1.36512E+07 2.27520E+05  3792.0      158.00
0.43258
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   5 IN STRESS PERIOD
7
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    7   TIME STEP    5
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  5,
STRESS PERIOD   7
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  5,
STRESS PERIOD   7
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  5,
STRESS PERIOD   7
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  5,
STRESS PERIOD   7
1
              HEAD IN LAYER   1 AT END OF TIME STEP   5 IN STRESS
PERIOD    7
  ---------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

...................................................................
.......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
```

```
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    5, STRESS
PERIOD    7
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    5,
STRESS PERIOD   7
  -----------------------------------------------------------------
--------------
```

```
     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        2463.8462       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        2463.8462            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        2463.7710       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =        2463.7710           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02            IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    5 IN STRESS PERIOD
7
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 4.32000E+05  7200.0      120.00      5.0000
1.36893E-02
         TOTAL TIME 1.37376E+07 2.28960E+05  3816.0      159.00
0.43532
1

 SOLVING FOR HEAD
```

```
     1 CALLS TO PCG ROUTINE FOR TIME STEP   6 IN STRESS PERIOD
7
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    7   TIME STEP    6
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  6,
STRESS PERIOD   7
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  6,
STRESS PERIOD   7
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  6,
STRESS PERIOD   7
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  6,
STRESS PERIOD   7
1
              HEAD IN LAYER   1 AT END OF TIME STEP   6 IN STRESS
PERIOD    7
  -------------------------------------------------------------------
-----------

            1            2            3            4            5
6           7            8            9           10
           11           12           13           14

.....................................................................
.......................................................
   1   0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
```

```
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    6, STRESS
PERIOD    7
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    6,
STRESS PERIOD   7
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        2479.3408         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000
```

```
            TOTAL IN =        2479.3408              TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        2479.2656         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =        2479.2656             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    6 IN STRESS PERIOD
7
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 5.18400E+05  8640.0      144.00      6.0000
1.64271E-02
         TOTAL TIME 1.38240E+07 2.30400E+05  3840.0      160.00
0.43806
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP    7 IN STRESS PERIOD
7
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    7   TIME STEP    7
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  7,
STRESS PERIOD   7
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  7,
STRESS PERIOD   7
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  7,
STRESS PERIOD   7
```

```
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  7,
STRESS PERIOD   7
1
                HEAD IN LAYER   1 AT END OF TIME STEP   7 IN STRESS
PERIOD    7
  -----------------------------------------------------------------
-----------

            1            2            3            4            5
6           7            8            9           10
           11           12           13           14

...................................................................
.......................................................
   1   0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
```

```
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    7, STRESS
PERIOD    7
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    7,
STRESS PERIOD   7
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =            0.0000                STORAGE =
0.0000
       CONSTANT HEAD =         2494.8354          CONSTANT HEAD =
1.7934E-04
               WELLS =            0.0000                  WELLS =
0.0000

            TOTAL IN =         2494.8354               TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =            0.0000                STORAGE =
0.0000
       CONSTANT HEAD =         2494.7603          CONSTANT HEAD =
1.7934E-04
               WELLS =            0.0000                  WELLS =
0.0000

           TOTAL OUT =         2494.7603              TOTAL OUT =
1.7934E-04
```

```
            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    7 IN STRESS PERIOD
7
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 6.04800E+05  10080.      168.00      7.0000
1.91650E-02
         TOTAL TIME 1.39104E+07 2.31840E+05  3864.0      161.00
0.44079
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   8 IN STRESS PERIOD
7
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    7   TIME STEP    8
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  8,
STRESS PERIOD   7
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  8,
STRESS PERIOD   7
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  8,
STRESS PERIOD   7
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  8,
STRESS PERIOD   7
1
              HEAD IN LAYER   1 AT END OF TIME STEP   8 IN STRESS
PERIOD    7
  ------------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

...................................................................
.......................................................
```

```
   1   0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100     -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
```

```
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    8, STRESS
PERIOD    7
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    8,
STRESS PERIOD   7
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        2510.3301         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =        2510.3301              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        2510.2549         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =        2510.2549             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    8 IN STRESS PERIOD
7
                    SECONDS      MINUTES      HOURS        DAYS
YEARS
```

```
                    ----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 6.91200E+05  11520.      192.00      8.0000
2.19028E-02
         TOTAL TIME 1.39968E+07 2.33280E+05  3888.0      162.00
0.44353
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   9 IN STRESS PERIOD
7
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    7   TIME STEP    9
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  9,
STRESS PERIOD   7
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  9,
STRESS PERIOD   7
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  9,
STRESS PERIOD   7
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  9,
STRESS PERIOD   7
1
              HEAD IN LAYER   1 AT END OF TIME STEP   9 IN STRESS
PERIOD    7
  ------------------------------------------------------------------
-----------

          1           2           3           4           5
6         7           8           9          10
         11          12          13          14

..................................................................
......................................................
  1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
  2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
  3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
  4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
  5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
```

```
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
        0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
        0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
        0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
        0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
        0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
        0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
        0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
        0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
        0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
        0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
        0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
        0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
        0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
        0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
        0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    9, STRESS
PERIOD    7
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    9,
STRESS PERIOD   7
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
```

```
     ------------------                   ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        2525.8247       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        2525.8247            TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        2525.7495       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =        2525.7495           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02            IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    9 IN STRESS PERIOD
7
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 7.77600E+05  12960.      216.00      9.0000
2.46407E-02
         TOTAL TIME 1.40832E+07 2.34720E+05  3912.0      163.00
0.44627
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  10 IN STRESS PERIOD
7
     1 TOTAL ITERATIONS
```

```
 OUTPUT CONTROL FOR STRESS PERIOD    7   TIME STEP   10
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 10,
STRESS PERIOD   7
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 10,
STRESS PERIOD   7
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 10,
STRESS PERIOD   7
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 10,
STRESS PERIOD   7
1
              HEAD IN LAYER   1 AT END OF TIME STEP  10 IN STRESS
PERIOD    7
  ----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

..................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
```

```
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   10, STRESS
PERIOD    7
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   10,
STRESS PERIOD   7
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        2541.3193        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

            TOTAL IN =        2541.3193             TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
```

```
          ----                                         ----
             STORAGE =          0.0000                   STORAGE =
0.0000
       CONSTANT HEAD =       2541.2441             CONSTANT HEAD =
1.7934E-04
               WELLS =          0.0000                     WELLS =
0.0000

           TOTAL OUT =       2541.2441                 TOTAL OUT =
1.7934E-04

            IN - OUT =      7.5195E-02                  IN - OUT =
0.0000

 PERCENT DISCREPANCY =            0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   10 IN STRESS PERIOD
7
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 8.64000E+05  14400.      240.00     10.0000
2.73785E-02
         TOTAL TIME 1.41696E+07 2.36160E+05  3936.0      164.00
0.44901
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  11 IN STRESS PERIOD
7
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    7   TIME STEP   11
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 11,
STRESS PERIOD   7
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 11,
STRESS PERIOD   7
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 11,
STRESS PERIOD   7
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 11,
STRESS PERIOD   7
1
```

```
              HEAD IN LAYER   1 AT END OF TIME STEP  11 IN STRESS
PERIOD    7
  -------------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

......................................................................
.....................................................
   1    0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
        0.7123      0.7317      0.7509      0.7700
   2    0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
        0.7123      0.7317      0.7509      0.7700
   3    0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
        0.7123      0.7317      0.7509      0.7700
   4    0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
        0.7124      0.7317      0.7509      0.7700
   5    0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
        0.7124      0.7317      0.7509      0.7700
   6    0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
        0.7125      0.7318      0.7510      0.7700
   7    0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
        0.7126      0.7318      0.7510      0.7700
   8    0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
        0.7126      0.7319      0.7510      0.7700
   9    0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
        0.7127      0.7319      0.7510      0.7700
  10    0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
        0.7127      0.7319      0.7510      0.7700
  11    0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
        0.7127      0.7319      0.7510      0.7700
  12    0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
        0.7127      0.7319      0.7510      0.7700
  13    0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
        0.7127      0.7319      0.7510      0.7700
  14    0.5100      0.5320      0.5536      0.5745      0.5948
0.6148      0.6346      0.6543      0.6739      0.6933
        0.7126      0.7319      0.7510      0.7700
  15    0.5100      0.5316      0.5529      0.5738      0.5942
0.6144      0.6343      0.6541      0.6737      0.6932
        0.7126      0.7318      0.7510      0.7700
```

```
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   11, STRESS
PERIOD    7
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   11,
STRESS PERIOD   7
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =            0.0000              STORAGE =
0.0000
       CONSTANT HEAD =         2556.8140        CONSTANT HEAD =
1.7934E-04
               WELLS =            0.0000                WELLS =
0.0000

            TOTAL IN =         2556.8140             TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =            0.0000              STORAGE =
0.0000
       CONSTANT HEAD =         2556.7388        CONSTANT HEAD =
1.7934E-04
               WELLS =            0.0000                WELLS =
0.0000

           TOTAL OUT =         2556.7388            TOTAL OUT =
1.7934E-04

            IN - OUT =        7.5195E-02             IN - OUT =
0.0000
```

```
 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   11 IN STRESS PERIOD
7
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 9.50400E+05  15840.      264.00      11.000
3.01164E-02
         TOTAL TIME 1.42560E+07 2.37600E+05  3960.0      165.00
0.45175
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  12 IN STRESS PERIOD
7
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    7   TIME STEP   12
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 12,
STRESS PERIOD   7
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 12,
STRESS PERIOD   7
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 12,
STRESS PERIOD   7
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 12,
STRESS PERIOD   7
1
              HEAD IN LAYER   1 AT END OF TIME STEP  12 IN STRESS
PERIOD    7
  -----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

...................................................................
...................................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
```

```
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
```

```
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   12, STRESS
PERIOD    7
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   12,
STRESS PERIOD   7
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        2572.3086         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =        2572.3086              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        2572.2334         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =        2572.2334             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =             0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   12 IN STRESS PERIOD
7
                    SECONDS      MINUTES       HOURS        DAYS
YEARS
                    -----------------------------------------------
-------------
```

```
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.03680E+06  17280.      288.00      12.000
3.28542E-02
         TOTAL TIME 1.43424E+07 2.39040E+05  3984.0      166.00
0.45448
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  13 IN STRESS PERIOD
7
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    7   TIME STEP   13
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 13,
STRESS PERIOD   7
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 13,
STRESS PERIOD   7
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 13,
STRESS PERIOD   7
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 13,
STRESS PERIOD   7
1
              HEAD IN LAYER   1 AT END OF TIME STEP  13 IN STRESS
PERIOD    7
  -----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

...................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
```

```
   7  0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
      0.7126       0.7318       0.7510       0.7700
   8  0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
      0.7126       0.7319       0.7510       0.7700
   9  0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
      0.7127       0.7319       0.7510       0.7700
  10  0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
      0.7127       0.7319       0.7510       0.7700
  11  0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
      0.7127       0.7319       0.7510       0.7700
  12  0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
      0.7127       0.7319       0.7510       0.7700
  13  0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
      0.7127       0.7319       0.7510       0.7700
  14  0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
      0.7126       0.7319       0.7510       0.7700
  15  0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
      0.7126       0.7318       0.7510       0.7700
  16  0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
      0.7125       0.7318       0.7510       0.7700
  17  0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
      0.7125       0.7318       0.7509       0.7700
  18  0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
      0.7124       0.7317       0.7509       0.7700
  19  0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
      0.7124       0.7317       0.7509       0.7700
  20  0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
      0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   13, STRESS
PERIOD    7
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   13,
STRESS PERIOD   7
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
```

```
         ---                                      ---
            STORAGE =           0.0000              STORAGE =
0.0000
      CONSTANT HEAD =        2587.8032        CONSTANT HEAD =
1.7934E-04
              WELLS =           0.0000                WELLS =
0.0000

           TOTAL IN =        2587.8032             TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
            STORAGE =           0.0000              STORAGE =
0.0000
      CONSTANT HEAD =        2587.7280        CONSTANT HEAD =
1.7934E-04
              WELLS =           0.0000                WELLS =
0.0000

          TOTAL OUT =        2587.7280            TOTAL OUT =
1.7934E-04

           IN - OUT =       7.5195E-02             IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   13 IN STRESS PERIOD
7
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.12320E+06  18720.      312.00      13.000
3.55921E-02
         TOTAL TIME 1.44288E+07 2.40480E+05  4008.0      167.00
0.45722
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  14 IN STRESS PERIOD
7
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    7   TIME STEP   14
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
```

```
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 14,
STRESS PERIOD   7
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 14,
STRESS PERIOD   7
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 14,
STRESS PERIOD   7
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 14,
STRESS PERIOD   7
1
              HEAD IN LAYER   1 AT END OF TIME STEP  14 IN STRESS
PERIOD    7
  -----------------------------------------------------------------
-----------

          1            2            3            4            5
6         7            8            9           10
         11           12           13           14

...................................................................
...................................................................
   1   0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100     -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
```

```
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   14, STRESS
PERIOD    7
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   14,
STRESS PERIOD   7
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        2603.2979        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

            TOTAL IN =        2603.2979             TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
             STORAGE =           0.0000              STORAGE =
0.0000
```

```
       CONSTANT HEAD =        2603.2227         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =        2603.2227             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   14 IN STRESS PERIOD
7
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.20960E+06  20160.      336.00      14.000
3.83299E-02
         TOTAL TIME 1.45152E+07 2.41920E+05  4032.0      168.00
0.45996
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  15 IN STRESS PERIOD
7
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    7   TIME STEP   15
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 15,
STRESS PERIOD   7
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 15,
STRESS PERIOD   7
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 15,
STRESS PERIOD   7
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 15,
STRESS PERIOD   7
1
              HEAD IN LAYER   1 AT END OF TIME STEP  15 IN STRESS
PERIOD    7
  -----------------------------------------------------------------
-----------
```

```
             1             2             3             4             5
6            7             8             9            10
            11            12            13            14

.........................................................................
..........................................................
   1   0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100     -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
```

```
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   15, STRESS
PERIOD    7
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   15,
STRESS PERIOD   7
  ----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        2618.7925         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =        2618.7925              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        2618.7173         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =        2618.7173             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00
```

```
         TIME SUMMARY AT END OF TIME STEP   15 IN STRESS PERIOD
7
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.29600E+06  21600.      360.00      15.000
4.10678E-02
         TOTAL TIME 1.46016E+07 2.43360E+05  4056.0      169.00
0.46270
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  16 IN STRESS PERIOD
7
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    7   TIME STEP   16
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 16,
STRESS PERIOD   7
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 16,
STRESS PERIOD   7
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 16,
STRESS PERIOD   7
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 16,
STRESS PERIOD   7
1
              HEAD IN LAYER   1 AT END OF TIME STEP  16 IN STRESS
PERIOD    7
  -----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

...................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
```

```
        0.7123       0.7317       0.7509       0.7700
   4    0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
        0.7124       0.7317       0.7509       0.7700
   5    0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
        0.7124       0.7317       0.7509       0.7700
   6    0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
        0.7125       0.7318       0.7510       0.7700
   7    0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
        0.7126       0.7318       0.7510       0.7700
   8    0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
        0.7126       0.7319       0.7510       0.7700
   9    0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
        0.7127       0.7319       0.7510       0.7700
  10    0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
        0.7127       0.7319       0.7510       0.7700
  11    0.5100      -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
        0.7127       0.7319       0.7510       0.7700
  12    0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
        0.7127       0.7319       0.7510       0.7700
  13    0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
        0.7127       0.7319       0.7510       0.7700
  14    0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
        0.7126       0.7319       0.7510       0.7700
  15    0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
        0.7126       0.7318       0.7510       0.7700
  16    0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
        0.7125       0.7318       0.7510       0.7700
  17    0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
        0.7125       0.7318       0.7509       0.7700
  18    0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
        0.7124       0.7317       0.7509       0.7700
  19    0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
        0.7124       0.7317       0.7509       0.7700
  20    0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
        0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   16, STRESS
PERIOD    7
1
```

```
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   16,
STRESS PERIOD   7
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        2634.2871       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        2634.2871            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        2634.2119       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =        2634.2119           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02            IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   16 IN STRESS PERIOD
7
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.38240E+06  23040.      384.00      16.000
4.38056E-02
         TOTAL TIME 1.46880E+07 2.44800E+05  4080.0      170.00
0.46543
```

```
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  17 IN STRESS PERIOD
7
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    7   TIME STEP   17
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 17,
STRESS PERIOD   7
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 17,
STRESS PERIOD   7
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 17,
STRESS PERIOD   7
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 17,
STRESS PERIOD   7
1
              HEAD IN LAYER   1 AT END OF TIME STEP  17 IN STRESS
PERIOD    7
  -----------------------------------------------------------------
-----------

           1            2            3            4            5
6          7            8            9           10
          11           12           13           14

...................................................................
......................................................
   1   0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
```

```
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   17, STRESS
PERIOD    7
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   17,
STRESS PERIOD    7
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        2649.7817         CONSTANT HEAD =
1.7934E-04
```

```
              WELLS =          0.0000                   WELLS =
0.0000

           TOTAL IN =        2649.7817               TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
            STORAGE =          0.0000                 STORAGE =
0.0000
      CONSTANT HEAD =        2649.7065          CONSTANT HEAD =
1.7934E-04
              WELLS =          0.0000                   WELLS =
0.0000

          TOTAL OUT =        2649.7065              TOTAL OUT =
1.7934E-04

           IN - OUT =       7.5195E-02               IN - OUT =
0.0000

 PERCENT DISCREPANCY =          0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   17 IN STRESS PERIOD
7
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.46880E+06  24480.      408.00      17.000
4.65435E-02
         TOTAL TIME 1.47744E+07 2.46240E+05  4104.0      171.00
0.46817
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  18 IN STRESS PERIOD
7
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    7   TIME STEP   18
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 18,
STRESS PERIOD   7
```

```
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 18,
STRESS PERIOD   7
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 18,
STRESS PERIOD   7
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 18,
STRESS PERIOD   7
1
              HEAD IN LAYER   1 AT END OF TIME STEP  18 IN STRESS
PERIOD    7
  ---------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

.................................................................
......................................................
   1    0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
        0.7123      0.7317      0.7509      0.7700
   2    0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
        0.7123      0.7317      0.7509      0.7700
   3    0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
        0.7123      0.7317      0.7509      0.7700
   4    0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
        0.7124      0.7317      0.7509      0.7700
   5    0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
        0.7124      0.7317      0.7509      0.7700
   6    0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
        0.7125      0.7318      0.7510      0.7700
   7    0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
        0.7126      0.7318      0.7510      0.7700
   8    0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
        0.7126      0.7319      0.7510      0.7700
   9    0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
        0.7127      0.7319      0.7510      0.7700
  10    0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
        0.7127      0.7319      0.7510      0.7700
  11    0.5100    -1.0000E+30   0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
        0.7127      0.7319      0.7510      0.7700
  12    0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
        0.7127      0.7319      0.7510      0.7700
  13    0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
```

```
       0.7127      0.7319      0.7510      0.7700
  14   0.5100      0.5320      0.5536      0.5745      0.5948
0.6148      0.6346      0.6543      0.6739      0.6933
       0.7126      0.7319      0.7510      0.7700
  15   0.5100      0.5316      0.5529      0.5738      0.5942
0.6144      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
  16   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6341      0.6539      0.6736      0.6931
       0.7125      0.7318      0.7510      0.7700
  17   0.5100      0.5312      0.5522      0.5730      0.5935
0.6138      0.6339      0.6538      0.6735      0.6930
       0.7125      0.7318      0.7509      0.7700
  18   0.5100      0.5311      0.5521      0.5728      0.5933
0.6136      0.6337      0.6536      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
  19   0.5100      0.5311      0.5520      0.5727      0.5932
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
  20   0.5100      0.5311      0.5519      0.5726      0.5932
0.6135      0.6336      0.6535      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   18, STRESS
PERIOD    7
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   18,
STRESS PERIOD   7
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        2665.2764        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

            TOTAL IN =        2665.2764             TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        2665.2012        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000
```

```
           TOTAL OUT =        2665.2012             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =            0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   18 IN STRESS PERIOD
7
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.55520E+06  25920.      432.00      18.000
4.92813E-02
         TOTAL TIME 1.48608E+07 2.47680E+05  4128.0      172.00
0.47091
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  19 IN STRESS PERIOD
7
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    7   TIME STEP   19
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 19,
STRESS PERIOD   7
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 19,
STRESS PERIOD   7
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 19,
STRESS PERIOD   7
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 19,
STRESS PERIOD   7
1
              HEAD IN LAYER   1 AT END OF TIME STEP  19 IN STRESS
PERIOD    7
  -----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14
```

```
.....................................................................
.........................................................
   1  0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
      0.7123      0.7317      0.7509      0.7700
   2  0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
      0.7123      0.7317      0.7509      0.7700
   3  0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
      0.7123      0.7317      0.7509      0.7700
   4  0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
      0.7124      0.7317      0.7509      0.7700
   5  0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
      0.7124      0.7317      0.7509      0.7700
   6  0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
      0.7125      0.7318      0.7510      0.7700
   7  0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
      0.7126      0.7318      0.7510      0.7700
   8  0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
      0.7126      0.7319      0.7510      0.7700
   9  0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
      0.7127      0.7319      0.7510      0.7700
  10  0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
      0.7127      0.7319      0.7510      0.7700
  11  0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
      0.7127      0.7319      0.7510      0.7700
  12  0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
      0.7127      0.7319      0.7510      0.7700
  13  0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
      0.7127      0.7319      0.7510      0.7700
  14  0.5100      0.5320      0.5536      0.5745      0.5948
0.6148      0.6346      0.6543      0.6739      0.6933
      0.7126      0.7319      0.7510      0.7700
  15  0.5100      0.5316      0.5529      0.5738      0.5942
0.6144      0.6343      0.6541      0.6737      0.6932
      0.7126      0.7318      0.7510      0.7700
  16  0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6341      0.6539      0.6736      0.6931
      0.7125      0.7318      0.7510      0.7700
  17  0.5100      0.5312      0.5522      0.5730      0.5935
0.6138      0.6339      0.6538      0.6735      0.6930
      0.7125      0.7318      0.7509      0.7700
  18  0.5100      0.5311      0.5521      0.5728      0.5933
0.6136      0.6337      0.6536      0.6734      0.6930
```

```
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   19, STRESS
PERIOD    7
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   19,
STRESS PERIOD   7
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        2680.7710         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =        2680.7710              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        2680.6958         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =        2680.6958             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =             0.00     PERCENT DISCREPANCY =
0.00
```

```
         TIME SUMMARY AT END OF TIME STEP   19 IN STRESS PERIOD
7
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.64160E+06  27360.      456.00      19.000
5.20192E-02
         TOTAL TIME 1.49472E+07 2.49120E+05  4152.0      173.00
0.47365
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  20 IN STRESS PERIOD
7
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    7   TIME STEP   20
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 20,
STRESS PERIOD   7
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 20,
STRESS PERIOD   7
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 20,
STRESS PERIOD   7
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 20,
STRESS PERIOD   7
1
              HEAD IN LAYER   1 AT END OF TIME STEP  20 IN STRESS
PERIOD    7
  -----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

...................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
```

```
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   20, STRESS
PERIOD    7
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   20,
STRESS PERIOD   7
  ------------------------------------------------------------------
--------------
```

```
     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        2696.2656       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        2696.2656            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        2696.1904       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =        2696.1904           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02            IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00





         TIME SUMMARY AT END OF TIME STEP   20 IN STRESS PERIOD
7
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.72800E+06  28800.      480.00      20.000
5.47570E-02
         TOTAL TIME 1.50336E+07 2.50560E+05  4176.0      174.00
0.47639
1

 SOLVING FOR HEAD
```

```
     1 CALLS TO PCG ROUTINE FOR TIME STEP  21 IN STRESS PERIOD
7
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    7   TIME STEP   21
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 21,
STRESS PERIOD   7
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 21,
STRESS PERIOD   7
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 21,
STRESS PERIOD   7
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 21,
STRESS PERIOD   7
1
              HEAD IN LAYER   1 AT END OF TIME STEP  21 IN STRESS
PERIOD    7
  ---------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

.................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
```

```
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   21, STRESS
PERIOD    7
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   21,
STRESS PERIOD   7
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        2711.7603        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000
```

```
           TOTAL IN =        2711.7603                TOTAL IN =
1.7934E-04

          OUT:                                      OUT:
          ----                                      ----
            STORAGE =           0.0000                 STORAGE =
0.0000
      CONSTANT HEAD =        2711.6851           CONSTANT HEAD =
1.7934E-04
              WELLS =           0.0000                   WELLS =
0.0000

          TOTAL OUT =        2711.6851               TOTAL OUT =
1.7934E-04

           IN - OUT =       7.5195E-02                IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   21 IN STRESS PERIOD
7
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.81440E+06  30240.      504.00      21.000
5.74949E-02
         TOTAL TIME 1.51200E+07 2.52000E+05  4200.0      175.00
0.47912
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  22 IN STRESS PERIOD
7
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    7   TIME STEP   22
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 22,
STRESS PERIOD   7
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 22,
STRESS PERIOD   7
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 22,
STRESS PERIOD   7
```

```
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 22,
STRESS PERIOD   7
1
                HEAD IN LAYER   1 AT END OF TIME STEP  22 IN STRESS
PERIOD    7
  ---------------------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

............................................................................
............................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  11   0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
       0.7127      0.7319      0.7510      0.7700
  12   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  13   0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  14   0.5100      0.5320      0.5536      0.5745      0.5948
0.6148      0.6346      0.6543      0.6739      0.6933
       0.7126      0.7319      0.7510      0.7700
```

```
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   22, STRESS
PERIOD    7
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   22,
STRESS PERIOD   7
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        2727.2549       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        2727.2549            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        2727.1797       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =        2727.1797           TOTAL OUT =
1.7934E-04
```

```
            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   22 IN STRESS PERIOD
7
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.90080E+06  31680.      528.00      22.000
6.02327E-02
         TOTAL TIME 1.52064E+07 2.53440E+05  4224.0      176.00
0.48186
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  23 IN STRESS PERIOD
7
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    7   TIME STEP   23
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 23,
STRESS PERIOD   7
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 23,
STRESS PERIOD   7
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 23,
STRESS PERIOD   7
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 23,
STRESS PERIOD   7
1
              HEAD IN LAYER   1 AT END OF TIME STEP  23 IN STRESS
PERIOD    7
  ---------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

..................................................................
......................................................
```

```
   1   0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100     -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
```

```
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   23, STRESS
PERIOD    7
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   23,
STRESS PERIOD   7
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        2742.7495         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =        2742.7495              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        2742.6743         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =        2742.6743             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   23 IN STRESS PERIOD
7
                    SECONDS      MINUTES       HOURS        DAYS
YEARS
```

```
                    ---------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.98720E+06  33120.      552.00      23.000
6.29706E-02
         TOTAL TIME 1.52928E+07 2.54880E+05  4248.0      177.00
0.48460
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  24 IN STRESS PERIOD
7
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    7   TIME STEP   24
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 24,
STRESS PERIOD   7
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 24,
STRESS PERIOD   7
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 24,
STRESS PERIOD   7
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 24,
STRESS PERIOD   7
1
              HEAD IN LAYER   1 AT END OF TIME STEP  24 IN STRESS
PERIOD    7
  ------------------------------------------------------------------
-----------

          1           2           3           4           5
6         7           8           9          10
         11          12          13          14

....................................................................
.....................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
```

```
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   24, STRESS
PERIOD    7
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   24,
STRESS PERIOD   7
  ----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
```

```
     ------------------                   ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        2758.2441        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

            TOTAL IN =        2758.2441             TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        2758.1689        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

           TOTAL OUT =        2758.1689            TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02             IN - OUT =
0.0000

 PERCENT DISCREPANCY =             0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   24 IN STRESS PERIOD
7
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.07360E+06  34560.      576.00      24.000
6.57084E-02
         TOTAL TIME 1.53792E+07 2.56320E+05  4272.0      178.00
0.48734
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  25 IN STRESS PERIOD
7
     1 TOTAL ITERATIONS
```

```
 OUTPUT CONTROL FOR STRESS PERIOD    7   TIME STEP   25
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 25,
STRESS PERIOD   7
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 25,
STRESS PERIOD   7
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 25,
STRESS PERIOD   7
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 25,
STRESS PERIOD   7
1
              HEAD IN LAYER   1 AT END OF TIME STEP  25 IN STRESS
PERIOD    7
  ----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

..................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
```

```
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   25, STRESS
PERIOD    7
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   25,
STRESS PERIOD   7
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                       IN:
           ---                                       ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        2773.7388         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =        2773.7388              TOTAL IN =
1.7934E-04

          OUT:                                      OUT:
```

```
          ----                                        ----
               STORAGE =          0.0000               STORAGE =
0.0000
         CONSTANT HEAD =       2773.6636         CONSTANT HEAD =
1.7934E-04
                 WELLS =          0.0000                 WELLS =
0.0000

             TOTAL OUT =       2773.6636             TOTAL OUT =
1.7934E-04

              IN - OUT =      7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =          0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   25 IN STRESS PERIOD
7
                    SECONDS     MINUTES      HOURS        DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.16000E+06  36000.      600.00      25.000
6.84463E-02
         TOTAL TIME 1.54656E+07 2.57760E+05  4296.0      179.00
0.49008
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  26 IN STRESS PERIOD
7
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    7   TIME STEP   26
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 26,
STRESS PERIOD   7
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 26,
STRESS PERIOD   7
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 26,
STRESS PERIOD   7
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 26,
STRESS PERIOD   7
1
```

```
              HEAD IN LAYER   1 AT END OF TIME STEP  26 IN STRESS
PERIOD    7
  ---------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

.................................................................
.....................................................
   1    0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
        0.7123      0.7317      0.7509      0.7700
   2    0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
        0.7123      0.7317      0.7509      0.7700
   3    0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
        0.7123      0.7317      0.7509      0.7700
   4    0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
        0.7124      0.7317      0.7509      0.7700
   5    0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
        0.7124      0.7317      0.7509      0.7700
   6    0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
        0.7125      0.7318      0.7510      0.7700
   7    0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
        0.7126      0.7318      0.7510      0.7700
   8    0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
        0.7126      0.7319      0.7510      0.7700
   9    0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
        0.7127      0.7319      0.7510      0.7700
  10    0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
        0.7127      0.7319      0.7510      0.7700
  11    0.5100    -1.0000E+30   0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
        0.7127      0.7319      0.7510      0.7700
  12    0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
        0.7127      0.7319      0.7510      0.7700
  13    0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
        0.7127      0.7319      0.7510      0.7700
  14    0.5100      0.5320      0.5536      0.5745      0.5948
0.6148      0.6346      0.6543      0.6739      0.6933
        0.7126      0.7319      0.7510      0.7700
  15    0.5100      0.5316      0.5529      0.5738      0.5942
0.6144      0.6343      0.6541      0.6737      0.6932
        0.7126      0.7318      0.7510      0.7700
```

```
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   26, STRESS
PERIOD    7
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   26,
STRESS PERIOD   7
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        2789.2334       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        2789.2334            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        2789.1582       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =        2789.1582           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02            IN - OUT =
0.0000
```

```
 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   26 IN STRESS PERIOD
7
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.24640E+06  37440.      624.00      26.000
7.11841E-02
         TOTAL TIME 1.55520E+07 2.59200E+05  4320.0      180.00
0.49281
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  27 IN STRESS PERIOD
7
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    7   TIME STEP   27
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 27,
STRESS PERIOD   7
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 27,
STRESS PERIOD   7
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 27,
STRESS PERIOD   7
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 27,
STRESS PERIOD   7
1
              HEAD IN LAYER   1 AT END OF TIME STEP  27 IN STRESS
PERIOD    7
  -----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

...................................................................
..........................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
```

```
   2   0.5100        0.5310        0.5519        0.5725        0.5930
0.6133        0.6334        0.6534        0.6732        0.6928
       0.7123        0.7317        0.7509        0.7700
   3   0.5100        0.5311        0.5519        0.5726        0.5931
0.6134        0.6335        0.6535        0.6732        0.6929
       0.7123        0.7317        0.7509        0.7700
   4   0.5100        0.5311        0.5520        0.5727        0.5933
0.6135        0.6336        0.6536        0.6733        0.6929
       0.7124        0.7317        0.7509        0.7700
   5   0.5100        0.5312        0.5522        0.5730        0.5935
0.6137        0.6338        0.6537        0.6734        0.6930
       0.7124        0.7317        0.7509        0.7700
   6   0.5100        0.5314        0.5525        0.5733        0.5938
0.6140        0.6340        0.6539        0.6735        0.6931
       0.7125        0.7318        0.7510        0.7700
   7   0.5100        0.5316        0.5529        0.5737        0.5942
0.6143        0.6343        0.6541        0.6737        0.6932
       0.7126        0.7318        0.7510        0.7700
   8   0.5100        0.5320        0.5536        0.5744        0.5948
0.6148        0.6346        0.6543        0.6738        0.6933
       0.7126        0.7319        0.7510        0.7700
   9   0.5100        0.5326        0.5549        0.5755        0.5955
0.6153        0.6349        0.6545        0.6740        0.6934
       0.7127        0.7319        0.7510        0.7700
  10   0.5100        0.5335        0.5576        0.5772        0.5964
0.6157        0.6352        0.6546        0.6741        0.6934
       0.7127        0.7319        0.7510        0.7700
  11   0.5100      -1.0000E+30   0.5648        0.5791        0.5970
0.6160        0.6353        0.6547        0.6741        0.6935
       0.7127        0.7319        0.7510        0.7700
  12   0.5100        0.5335        0.5576        0.5772        0.5964
0.6157        0.6352        0.6546        0.6741        0.6934
       0.7127        0.7319        0.7510        0.7700
  13   0.5100        0.5326        0.5549        0.5756        0.5955
0.6153        0.6349        0.6545        0.6740        0.6934
       0.7127        0.7319        0.7510        0.7700
  14   0.5100        0.5320        0.5536        0.5745        0.5948
0.6148        0.6346        0.6543        0.6739        0.6933
       0.7126        0.7319        0.7510        0.7700
  15   0.5100        0.5316        0.5529        0.5738        0.5942
0.6144        0.6343        0.6541        0.6737        0.6932
       0.7126        0.7318        0.7510        0.7700
  16   0.5100        0.5314        0.5525        0.5733        0.5938
0.6140        0.6341        0.6539        0.6736        0.6931
       0.7125        0.7318        0.7510        0.7700
  17   0.5100        0.5312        0.5522        0.5730        0.5935
0.6138        0.6339        0.6538        0.6735        0.6930
       0.7125        0.7318        0.7509        0.7700
  18   0.5100        0.5311        0.5521        0.5728        0.5933
0.6136        0.6337        0.6536        0.6734        0.6930
       0.7124        0.7317        0.7509        0.7700
  19   0.5100        0.5311        0.5520        0.5727        0.5932
0.6135        0.6336        0.6536        0.6733        0.6929
       0.7124        0.7317        0.7509        0.7700
  20   0.5100        0.5311        0.5519        0.5726        0.5932
0.6135        0.6336        0.6535        0.6733        0.6929
```

```
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   27, STRESS
PERIOD    7
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   27,
STRESS PERIOD   7
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000                 STORAGE =
0.0000
       CONSTANT HEAD =        2804.7280           CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                   WELLS =
0.0000

            TOTAL IN =        2804.7280                TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000                 STORAGE =
0.0000
       CONSTANT HEAD =        2804.6528           CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                   WELLS =
0.0000

           TOTAL OUT =        2804.6528               TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02                IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   27 IN STRESS PERIOD
7
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
```

```
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.33280E+06  38880.      648.00      27.000
7.39220E-02
         TOTAL TIME 1.56384E+07 2.60640E+05  4344.0      181.00
0.49555
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  28 IN STRESS PERIOD
7
     1 TOTAL ITERATIONS

 MAXIMUM HEAD CHANGE FOR EACH ITERATION (1 INDICATES THE FIRST
INNER ITERATION):

    HEAD CHANGE    HEAD CHANGE    HEAD CHANGE    HEAD CHANGE
HEAD CHANGE
   LAYER,ROW,COL  LAYER,ROW,COL  LAYER,ROW,COL  LAYER,ROW,COL
LAYER,ROW,COL
 -------------------------------------------------------------------
----------
  1 -0.2365E-15
   (  1,  3,  8)

 MAXIMUM RESIDUAL FOR EACH ITERATION (1 INDICATES THE FIRST INNER
ITERATION):

    RESIDUAL       RESIDUAL       RESIDUAL       RESIDUAL
RESIDUAL
   LAYER,ROW,COL  LAYER,ROW,COL  LAYER,ROW,COL  LAYER,ROW,COL
LAYER,ROW,COL
 -------------------------------------------------------------------
----------
  1  0.1206E-18
   (  1,  2, 11)



 OUTPUT CONTROL FOR STRESS PERIOD    7   TIME STEP   28
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 28,
STRESS PERIOD   7
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 28,
STRESS PERIOD   7
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 28,
STRESS PERIOD   7
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 28,
STRESS PERIOD   7
1
              HEAD IN LAYER   1 AT END OF TIME STEP  28 IN STRESS
PERIOD    7
```

```
  ------------------------------------------------------------------
-----------

           1            2            3            4            5
6          7            8            9           10
          11           12           13           14

....................................................................
.......................................................
   1  0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
      0.7123       0.7317       0.7509       0.7700
   2  0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
      0.7123       0.7317       0.7509       0.7700
   3  0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
      0.7123       0.7317       0.7509       0.7700
   4  0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
      0.7124       0.7317       0.7509       0.7700
   5  0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
      0.7124       0.7317       0.7509       0.7700
   6  0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
      0.7125       0.7318       0.7510       0.7700
   7  0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
      0.7126       0.7318       0.7510       0.7700
   8  0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
      0.7126       0.7319       0.7510       0.7700
   9  0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
      0.7127       0.7319       0.7510       0.7700
  10  0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
      0.7127       0.7319       0.7510       0.7700
  11  0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
      0.7127       0.7319       0.7510       0.7700
  12  0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
      0.7127       0.7319       0.7510       0.7700
  13  0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
      0.7127       0.7319       0.7510       0.7700
  14  0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
      0.7126       0.7319       0.7510       0.7700
  15  0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
      0.7126       0.7318       0.7510       0.7700
  16  0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
```

```
       0.7125      0.7318      0.7510      0.7700
  17   0.5100      0.5312      0.5522      0.5730      0.5935
0.6138      0.6339      0.6538      0.6735      0.6930
       0.7125      0.7318      0.7509      0.7700
  18   0.5100      0.5311      0.5521      0.5728      0.5933
0.6136      0.6337      0.6536      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
  19   0.5100      0.5311      0.5520      0.5727      0.5932
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
  20   0.5100      0.5311      0.5519      0.5726      0.5932
0.6135      0.6336      0.6535      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   28, STRESS
PERIOD    7
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   28,
STRESS PERIOD   7
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        2820.2227         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =        2820.2227              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        2820.1475         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =        2820.1475             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =             0.00     PERCENT DISCREPANCY =
0.00
```

```
         TIME SUMMARY AT END OF TIME STEP   28 IN STRESS PERIOD
7
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.41920E+06  40320.      672.00      28.000
7.66598E-02
         TOTAL TIME 1.57248E+07 2.62080E+05  4368.0      182.00
0.49829
1
1
                            STRESS PERIOD NO.    8, LENGTH =
2678400.
                            ---------------------------------------
---------

                              NUMBER OF TIME STEPS =    31

                               MULTIPLIER FOR DELT =     1.000

                            INITIAL TIME STEP SIZE =   86400.00

 WELL NO.  LAYER   ROW   COL   STRESS RATE
 --------------------------------------------------
      1      1     11      2     -100.00

      1 WELL

 SOLVING FOR HEAD


     1 CALLS TO PCG ROUTINE FOR TIME STEP   1 IN STRESS PERIOD
8
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    8   TIME STEP    1
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  1,
STRESS PERIOD   8
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  1,
STRESS PERIOD   8
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  1,
STRESS PERIOD   8
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  1,
STRESS PERIOD   8
```

```
1
            HEAD IN LAYER   1 AT END OF TIME STEP   1 IN STRESS
PERIOD    8
  ---------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

.................................................................
...................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  11   0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
       0.7127      0.7319      0.7510      0.7700
  12   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  13   0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  14   0.5100      0.5320      0.5536      0.5745      0.5948
0.6148      0.6346      0.6543      0.6739      0.6933
       0.7126      0.7319      0.7510      0.7700
  15   0.5100      0.5316      0.5529      0.5738      0.5942
0.6144      0.6343      0.6541      0.6737      0.6932
```

```
       0.7126      0.7318      0.7510      0.7700
  16   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6341      0.6539      0.6736      0.6931
       0.7125      0.7318      0.7510      0.7700
  17   0.5100      0.5312      0.5522      0.5730      0.5935
0.6138      0.6339      0.6538      0.6735      0.6930
       0.7125      0.7318      0.7509      0.7700
  18   0.5100      0.5311      0.5521      0.5728      0.5933
0.6136      0.6337      0.6536      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
  19   0.5100      0.5311      0.5520      0.5727      0.5932
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
  20   0.5100      0.5311      0.5519      0.5726      0.5932
0.6135      0.6336      0.6535      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    1, STRESS
PERIOD    8
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    1,
STRESS PERIOD   8
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        2835.7173        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

            TOTAL IN =        2835.7173             TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        2835.6421        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

           TOTAL OUT =        2835.6421            TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02             IN - OUT =
0.0000
```

```
 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    1 IN STRESS PERIOD
8
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME  86400.      1440.0      24.000     1.00000
2.73785E-03
         TOTAL TIME 1.58112E+07 2.63520E+05  4392.0      183.00
0.50103
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   2 IN STRESS PERIOD
8
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    8   TIME STEP    2
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  2,
STRESS PERIOD   8
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  2,
STRESS PERIOD   8
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  2,
STRESS PERIOD   8
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  2,
STRESS PERIOD   8
1
              HEAD IN LAYER   1 AT END OF TIME STEP   2 IN STRESS
PERIOD    8
  ----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

.................................................................
...........................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
```

```
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
```

```
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    2, STRESS
PERIOD    8
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    2,
STRESS PERIOD   8
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        2851.2119         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =        2851.2119              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        2851.1367         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =        2851.1367             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    2 IN STRESS PERIOD
8
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
```

```
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.72800E+05  2880.0      48.000      2.0000
5.47570E-03
         TOTAL TIME 1.58976E+07 2.64960E+05  4416.0      184.00
0.50376
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   3 IN STRESS PERIOD
8
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    8   TIME STEP    3
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  3,
STRESS PERIOD   8
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  3,
STRESS PERIOD   8
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  3,
STRESS PERIOD   8
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  3,
STRESS PERIOD   8
1
              HEAD IN LAYER   1 AT END OF TIME STEP   3 IN STRESS
PERIOD    8
  ------------------------------------------------------------------
-----------

           1           2           3           4           5
6           7           8           9          10
          11          12          13          14

..................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
```

```
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    3, STRESS
PERIOD    8
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    3,
STRESS PERIOD   8
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
```

```
          ---                                     ---
             STORAGE =           0.0000                 STORAGE =
0.0000
       CONSTANT HEAD =        2866.7065           CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                   WELLS =
0.0000

            TOTAL IN =        2866.7065                TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
             STORAGE =           0.0000                 STORAGE =
0.0000
       CONSTANT HEAD =        2866.6313           CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                   WELLS =
0.0000

           TOTAL OUT =        2866.6313               TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02                IN - OUT =
0.0000

 PERCENT DISCREPANCY =             0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    3 IN STRESS PERIOD
8
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.59200E+05  4320.0      72.000      3.0000
8.21355E-03
         TOTAL TIME 1.59840E+07 2.66400E+05  4440.0      185.00
0.50650
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   4 IN STRESS PERIOD
8
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    8    TIME STEP    4
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
```

```
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  4,
STRESS PERIOD   8
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  4,
STRESS PERIOD   8
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  4,
STRESS PERIOD   8
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  4,
STRESS PERIOD   8
1
              HEAD IN LAYER   1 AT END OF TIME STEP   4 IN STRESS
PERIOD    8
  -----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

.................................................................
...........................................................
   1  0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
      0.7123      0.7317      0.7509      0.7700
   2  0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
      0.7123      0.7317      0.7509      0.7700
   3  0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
      0.7123      0.7317      0.7509      0.7700
   4  0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
      0.7124      0.7317      0.7509      0.7700
   5  0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
      0.7124      0.7317      0.7509      0.7700
   6  0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
      0.7125      0.7318      0.7510      0.7700
   7  0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
      0.7126      0.7318      0.7510      0.7700
   8  0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
      0.7126      0.7319      0.7510      0.7700
   9  0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
      0.7127      0.7319      0.7510      0.7700
  10  0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
      0.7127      0.7319      0.7510      0.7700
  11  0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
      0.7127      0.7319      0.7510      0.7700
```

```
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    4, STRESS
PERIOD    8
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    4,
STRESS PERIOD   8
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        2882.2012         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =        2882.2012              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =
0.0000
```

```
       CONSTANT HEAD =         2882.1260          CONSTANT HEAD =
1.7934E-04
               WELLS =            0.0000                  WELLS =
0.0000

           TOTAL OUT =         2882.1260              TOTAL OUT =
1.7934E-04

            IN - OUT =        7.5195E-02               IN - OUT =
0.0000

 PERCENT DISCREPANCY =              0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    4 IN STRESS PERIOD
8
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 3.45600E+05  5760.0      96.000      4.0000
1.09514E-02
         TOTAL TIME 1.60704E+07 2.67840E+05  4464.0      186.00
0.50924
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP    5 IN STRESS PERIOD
8
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    8   TIME STEP    5
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  5,
STRESS PERIOD   8
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  5,
STRESS PERIOD   8
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  5,
STRESS PERIOD   8
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  5,
STRESS PERIOD   8
1
              HEAD IN LAYER   1 AT END OF TIME STEP   5 IN STRESS
PERIOD    8
  ---------------------------------------------------------------------------
-----------
```

```
              1             2             3             4             5
6             7             8             9            10
             11            12            13            14

.....................................................................
........................................................
   1    0.5100        0.5310        0.5518        0.5725        0.5930
0.6133        0.6334        0.6534        0.6732        0.6928
        0.7123        0.7317        0.7509        0.7700
   2    0.5100        0.5310        0.5519        0.5725        0.5930
0.6133        0.6334        0.6534        0.6732        0.6928
        0.7123        0.7317        0.7509        0.7700
   3    0.5100        0.5311        0.5519        0.5726        0.5931
0.6134        0.6335        0.6535        0.6732        0.6929
        0.7123        0.7317        0.7509        0.7700
   4    0.5100        0.5311        0.5520        0.5727        0.5933
0.6135        0.6336        0.6536        0.6733        0.6929
        0.7124        0.7317        0.7509        0.7700
   5    0.5100        0.5312        0.5522        0.5730        0.5935
0.6137        0.6338        0.6537        0.6734        0.6930
        0.7124        0.7317        0.7509        0.7700
   6    0.5100        0.5314        0.5525        0.5733        0.5938
0.6140        0.6340        0.6539        0.6735        0.6931
        0.7125        0.7318        0.7510        0.7700
   7    0.5100        0.5316        0.5529        0.5737        0.5942
0.6143        0.6343        0.6541        0.6737        0.6932
        0.7126        0.7318        0.7510        0.7700
   8    0.5100        0.5320        0.5536        0.5744        0.5948
0.6148        0.6346        0.6543        0.6738        0.6933
        0.7126        0.7319        0.7510        0.7700
   9    0.5100        0.5326        0.5549        0.5755        0.5955
0.6153        0.6349        0.6545        0.6740        0.6934
        0.7127        0.7319        0.7510        0.7700
  10    0.5100        0.5335        0.5576        0.5772        0.5964
0.6157        0.6352        0.6546        0.6741        0.6934
        0.7127        0.7319        0.7510        0.7700
  11    0.5100     -1.0000E+30      0.5648        0.5791        0.5970
0.6160        0.6353        0.6547        0.6741        0.6935
        0.7127        0.7319        0.7510        0.7700
  12    0.5100        0.5335        0.5576        0.5772        0.5964
0.6157        0.6352        0.6546        0.6741        0.6934
        0.7127        0.7319        0.7510        0.7700
  13    0.5100        0.5326        0.5549        0.5756        0.5955
0.6153        0.6349        0.6545        0.6740        0.6934
        0.7127        0.7319        0.7510        0.7700
  14    0.5100        0.5320        0.5536        0.5745        0.5948
0.6148        0.6346        0.6543        0.6739        0.6933
        0.7126        0.7319        0.7510        0.7700
  15    0.5100        0.5316        0.5529        0.5738        0.5942
0.6144        0.6343        0.6541        0.6737        0.6932
        0.7126        0.7318        0.7510        0.7700
  16    0.5100        0.5314        0.5525        0.5733        0.5938
0.6140        0.6341        0.6539        0.6736        0.6931
        0.7125        0.7318        0.7510        0.7700
```

```
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    5, STRESS
PERIOD    8
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    5,
STRESS PERIOD   8
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        2897.6958        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

            TOTAL IN =        2897.6958             TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        2897.6206        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

           TOTAL OUT =        2897.6206            TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02             IN - OUT =
0.0000

 PERCENT DISCREPANCY =             0.00     PERCENT DISCREPANCY =
0.00
```

```
         TIME SUMMARY AT END OF TIME STEP    5 IN STRESS PERIOD
8
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 4.32000E+05  7200.0      120.00      5.0000
1.36893E-02
         TOTAL TIME 1.61568E+07 2.69280E+05  4488.0      187.00
0.51198
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   6 IN STRESS PERIOD
8
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    8   TIME STEP    6
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  6,
STRESS PERIOD   8
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  6,
STRESS PERIOD   8
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  6,
STRESS PERIOD   8
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  6,
STRESS PERIOD   8
1
              HEAD IN LAYER   1 AT END OF TIME STEP   6 IN STRESS
PERIOD    8
  -----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

...................................................................
...............................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
```

```
        0.7123       0.7317       0.7509       0.7700
   4    0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
        0.7124       0.7317       0.7509       0.7700
   5    0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
        0.7124       0.7317       0.7509       0.7700
   6    0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
        0.7125       0.7318       0.7510       0.7700
   7    0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
        0.7126       0.7318       0.7510       0.7700
   8    0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
        0.7126       0.7319       0.7510       0.7700
   9    0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
        0.7127       0.7319       0.7510       0.7700
  10    0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
        0.7127       0.7319       0.7510       0.7700
  11    0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
        0.7127       0.7319       0.7510       0.7700
  12    0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
        0.7127       0.7319       0.7510       0.7700
  13    0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
        0.7127       0.7319       0.7510       0.7700
  14    0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
        0.7126       0.7319       0.7510       0.7700
  15    0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
        0.7126       0.7318       0.7510       0.7700
  16    0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
        0.7125       0.7318       0.7510       0.7700
  17    0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
        0.7125       0.7318       0.7509       0.7700
  18    0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
        0.7124       0.7317       0.7509       0.7700
  19    0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
        0.7124       0.7317       0.7509       0.7700
  20    0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
        0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    6, STRESS
PERIOD    8
1
```

```
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    6,
STRESS PERIOD   8
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        2913.1904       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        2913.1904            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        2913.1152       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =        2913.1152           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02            IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    6 IN STRESS PERIOD
8
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 5.18400E+05  8640.0      144.00      6.0000
1.64271E-02
         TOTAL TIME 1.62432E+07 2.70720E+05  4512.0      188.00
0.51472
```

```
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP    7 IN STRESS PERIOD
8
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    8   TIME STEP    7
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  7,
STRESS PERIOD   8
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  7,
STRESS PERIOD   8
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  7,
STRESS PERIOD   8
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  7,
STRESS PERIOD   8
1
              HEAD IN LAYER   1 AT END OF TIME STEP   7 IN STRESS
PERIOD    8
  ----------------------------------------------------------------
-----------

            1            2            3            4            5
6           7            8            9           10
           11           12           13           14

..................................................................
......................................................
   1   0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
```

```
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    7, STRESS
PERIOD    8
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    7,
STRESS PERIOD   8
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                   IN:
           ---                                   ---
             STORAGE =           0.0000            STORAGE =
0.0000
       CONSTANT HEAD =        2928.6851      CONSTANT HEAD =
1.7934E-04
```

```
               WELLS =            0.0000                  WELLS =
0.0000

            TOTAL IN =         2928.6851               TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
             STORAGE =            0.0000                STORAGE =
0.0000
       CONSTANT HEAD =         2928.6099          CONSTANT HEAD =
1.7934E-04
               WELLS =            0.0000                  WELLS =
0.0000

           TOTAL OUT =         2928.6099              TOTAL OUT =
1.7934E-04

            IN - OUT =        7.5195E-02               IN - OUT =
0.0000

 PERCENT DISCREPANCY =              0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    7 IN STRESS PERIOD
8
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 6.04800E+05  10080.      168.00      7.0000
1.91650E-02
         TOTAL TIME 1.63296E+07 2.72160E+05  4536.0      189.00
0.51745
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   8 IN STRESS PERIOD
8
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    8   TIME STEP    8
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  8,
STRESS PERIOD   8
```

```
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  8,
STRESS PERIOD   8
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  8,
STRESS PERIOD   8
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  8,
STRESS PERIOD   8
1
              HEAD IN LAYER   1 AT END OF TIME STEP   8 IN STRESS
PERIOD    8
  ------------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

...................................................................
.......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  11   0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
       0.7127      0.7319      0.7510      0.7700
  12   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  13   0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
```

```
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    8, STRESS
PERIOD    8
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    8,
STRESS PERIOD   8
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        2944.1797         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =        2944.1797              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        2944.1045         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000
```

```
           TOTAL OUT =        2944.1045              TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02               IN - OUT =
0.0000

 PERCENT DISCREPANCY =            0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    8 IN STRESS PERIOD
8
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 6.91200E+05  11520.      192.00      8.0000
2.19028E-02
         TOTAL TIME 1.64160E+07 2.73600E+05  4560.0      190.00
0.52019
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   9 IN STRESS PERIOD
8
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    8   TIME STEP    9
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  9,
STRESS PERIOD   8
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  9,
STRESS PERIOD   8
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  9,
STRESS PERIOD   8
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  9,
STRESS PERIOD   8
1
              HEAD IN LAYER   1 AT END OF TIME STEP   9 IN STRESS
PERIOD    8
  -----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14
```

```
.....................................................................
................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  11   0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
       0.7127      0.7319      0.7510      0.7700
  12   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  13   0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  14   0.5100      0.5320      0.5536      0.5745      0.5948
0.6148      0.6346      0.6543      0.6739      0.6933
       0.7126      0.7319      0.7510      0.7700
  15   0.5100      0.5316      0.5529      0.5738      0.5942
0.6144      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
  16   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6341      0.6539      0.6736      0.6931
       0.7125      0.7318      0.7510      0.7700
  17   0.5100      0.5312      0.5522      0.5730      0.5935
0.6138      0.6339      0.6538      0.6735      0.6930
       0.7125      0.7318      0.7509      0.7700
  18   0.5100      0.5311      0.5521      0.5728      0.5933
0.6136      0.6337      0.6536      0.6734      0.6930
```

```
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    9, STRESS
PERIOD    8
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    9,
STRESS PERIOD   8
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        2959.6743        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

            TOTAL IN =        2959.6743             TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        2959.5991        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

           TOTAL OUT =        2959.5991            TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02             IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00
```

```
        TIME SUMMARY AT END OF TIME STEP    9 IN STRESS PERIOD
8
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 7.77600E+05  12960.      216.00      9.0000
2.46407E-02
         TOTAL TIME 1.65024E+07 2.75040E+05  4584.0      191.00
0.52293
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  10 IN STRESS PERIOD
8
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    8   TIME STEP   10
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 10,
STRESS PERIOD   8
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 10,
STRESS PERIOD   8
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 10,
STRESS PERIOD   8
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 10,
STRESS PERIOD   8
1
              HEAD IN LAYER   1 AT END OF TIME STEP  10 IN STRESS
PERIOD    8
  ---------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

..................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
```

```
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   10, STRESS
PERIOD    8
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   10,
STRESS PERIOD   8
  ------------------------------------------------------------------
--------------
```

```
     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        2975.1689       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        2975.1689            TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        2975.0938       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =        2975.0938           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02            IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   10 IN STRESS PERIOD
8
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 8.64000E+05  14400.      240.00     10.0000
2.73785E-02
         TOTAL TIME 1.65888E+07 2.76480E+05  4608.0      192.00
0.52567
1

 SOLVING FOR HEAD
```

```
     1 CALLS TO PCG ROUTINE FOR TIME STEP  11 IN STRESS PERIOD
8
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    8   TIME STEP   11
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 11,
STRESS PERIOD   8
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 11,
STRESS PERIOD   8
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 11,
STRESS PERIOD   8
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 11,
STRESS PERIOD   8
1
              HEAD IN LAYER   1 AT END OF TIME STEP  11 IN STRESS
PERIOD    8
  ---------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

.................................................................
.....................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
```

```
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   11, STRESS
PERIOD    8
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   11,
STRESS PERIOD   8
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        2990.6636        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000
```

```
            TOTAL IN =        2990.6636               TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000                STORAGE =
0.0000
       CONSTANT HEAD =        2990.5884          CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                  WELLS =
0.0000

           TOTAL OUT =        2990.5884              TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02               IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   11 IN STRESS PERIOD
8
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 9.50400E+05  15840.      264.00      11.000
3.01164E-02
         TOTAL TIME 1.66752E+07 2.77920E+05  4632.0      193.00
0.52841
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  12 IN STRESS PERIOD
8
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    8   TIME STEP   12
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 12,
STRESS PERIOD   8
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 12,
STRESS PERIOD   8
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 12,
STRESS PERIOD   8
```

```
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 12,
STRESS PERIOD   8
1
            HEAD IN LAYER   1 AT END OF TIME STEP  12 IN STRESS
PERIOD    8
  ---------------------------------------------------------------
-----------

          1          2          3          4          5
6         7          8          9         10
         11         12         13         14

.................................................................
.....................................................
   1   0.5100     0.5310     0.5518     0.5725     0.5930
0.6133     0.6334     0.6534     0.6732     0.6928
       0.7123     0.7317     0.7509     0.7700
   2   0.5100     0.5310     0.5519     0.5725     0.5930
0.6133     0.6334     0.6534     0.6732     0.6928
       0.7123     0.7317     0.7509     0.7700
   3   0.5100     0.5311     0.5519     0.5726     0.5931
0.6134     0.6335     0.6535     0.6732     0.6929
       0.7123     0.7317     0.7509     0.7700
   4   0.5100     0.5311     0.5520     0.5727     0.5933
0.6135     0.6336     0.6536     0.6733     0.6929
       0.7124     0.7317     0.7509     0.7700
   5   0.5100     0.5312     0.5522     0.5730     0.5935
0.6137     0.6338     0.6537     0.6734     0.6930
       0.7124     0.7317     0.7509     0.7700
   6   0.5100     0.5314     0.5525     0.5733     0.5938
0.6140     0.6340     0.6539     0.6735     0.6931
       0.7125     0.7318     0.7510     0.7700
   7   0.5100     0.5316     0.5529     0.5737     0.5942
0.6143     0.6343     0.6541     0.6737     0.6932
       0.7126     0.7318     0.7510     0.7700
   8   0.5100     0.5320     0.5536     0.5744     0.5948
0.6148     0.6346     0.6543     0.6738     0.6933
       0.7126     0.7319     0.7510     0.7700
   9   0.5100     0.5326     0.5549     0.5755     0.5955
0.6153     0.6349     0.6545     0.6740     0.6934
       0.7127     0.7319     0.7510     0.7700
  10   0.5100     0.5335     0.5576     0.5772     0.5964
0.6157     0.6352     0.6546     0.6741     0.6934
       0.7127     0.7319     0.7510     0.7700
  11   0.5100    -1.0000E+30  0.5648     0.5791     0.5970
0.6160     0.6353     0.6547     0.6741     0.6935
       0.7127     0.7319     0.7510     0.7700
  12   0.5100     0.5335     0.5576     0.5772     0.5964
0.6157     0.6352     0.6546     0.6741     0.6934
       0.7127     0.7319     0.7510     0.7700
  13   0.5100     0.5326     0.5549     0.5756     0.5955
0.6153     0.6349     0.6545     0.6740     0.6934
       0.7127     0.7319     0.7510     0.7700
  14   0.5100     0.5320     0.5536     0.5745     0.5948
0.6148     0.6346     0.6543     0.6739     0.6933
       0.7126     0.7319     0.7510     0.7700
```

```
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   12, STRESS
PERIOD    8
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   12,
STRESS PERIOD   8
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        3006.1582       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        3006.1582            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        3006.0830       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =        3006.0830           TOTAL OUT =
1.7934E-04
```

```
            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   12 IN STRESS PERIOD
8
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.03680E+06  17280.      288.00      12.000
3.28542E-02
         TOTAL TIME 1.67616E+07 2.79360E+05  4656.0      194.00
0.53114
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  13 IN STRESS PERIOD
8
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    8   TIME STEP   13
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 13,
STRESS PERIOD   8
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 13,
STRESS PERIOD   8
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 13,
STRESS PERIOD   8
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 13,
STRESS PERIOD   8
1
              HEAD IN LAYER   1 AT END OF TIME STEP  13 IN STRESS
PERIOD    8
  -----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

...................................................................
.......................................................
```

```
   1   0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
```

```
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   13, STRESS
PERIOD    8
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   13,
STRESS PERIOD   8
  ----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        3021.6528         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =        3021.6528              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        3021.5776         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =        3021.5776             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =             0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   13 IN STRESS PERIOD
8
                    SECONDS      MINUTES       HOURS        DAYS
YEARS
```

```
                    ----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.12320E+06  18720.      312.00      13.000
3.55921E-02
         TOTAL TIME 1.68480E+07 2.80800E+05  4680.0      195.00
0.53388
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  14 IN STRESS PERIOD
8
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    8   TIME STEP   14
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 14,
STRESS PERIOD   8
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 14,
STRESS PERIOD   8
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 14,
STRESS PERIOD   8
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 14,
STRESS PERIOD   8
1
              HEAD IN LAYER   1 AT END OF TIME STEP  14 IN STRESS
PERIOD    8
  ------------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

..................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
```

```
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   14, STRESS
PERIOD    8
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   14,
STRESS PERIOD   8
  ----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
```

```
     ------------------                   ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =          0.0000               STORAGE =
0.0000
       CONSTANT HEAD =       3037.1475         CONSTANT HEAD =
1.7934E-04
               WELLS =          0.0000                 WELLS =
0.0000

            TOTAL IN =       3037.1475              TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
             STORAGE =          0.0000               STORAGE =
0.0000
       CONSTANT HEAD =       3037.0723         CONSTANT HEAD =
1.7934E-04
               WELLS =          0.0000                 WELLS =
0.0000

           TOTAL OUT =       3037.0723             TOTAL OUT =
0.0000

            IN - OUT =      7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =          0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   14 IN STRESS PERIOD
8
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.       1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.20960E+06  20160.      336.00      14.000
3.83299E-02
         TOTAL TIME 1.69344E+07 2.82240E+05  4704.0      196.00
0.53662
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  15 IN STRESS PERIOD
8
     1 TOTAL ITERATIONS
```

```
 OUTPUT CONTROL FOR STRESS PERIOD    8   TIME STEP   15
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 15,
STRESS PERIOD   8
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 15,
STRESS PERIOD   8
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 15,
STRESS PERIOD   8
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 15,
STRESS PERIOD   8
1
              HEAD IN LAYER   1 AT END OF TIME STEP  15 IN STRESS
PERIOD    8
  ----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

..................................................................
.......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
```

```
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   15, STRESS
PERIOD    8
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   15,
STRESS PERIOD    8
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        3052.6421       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        3052.6421            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
```

```
          ----                                        ----
             STORAGE =            0.0000                STORAGE =
0.0000
       CONSTANT HEAD =         3052.5669          CONSTANT HEAD =
1.7934E-04
               WELLS =            0.0000                  WELLS =
0.0000

           TOTAL OUT =         3052.5669              TOTAL OUT =
1.7934E-04

            IN - OUT =        7.5195E-02               IN - OUT =
0.0000

 PERCENT DISCREPANCY =              0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   15 IN STRESS PERIOD
8
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.29600E+06  21600.      360.00      15.000
4.10678E-02
         TOTAL TIME 1.70208E+07 2.83680E+05  4728.0      197.00
0.53936
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  16 IN STRESS PERIOD
8
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    8   TIME STEP   16
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 16,
STRESS PERIOD   8
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 16,
STRESS PERIOD   8
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 16,
STRESS PERIOD   8
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 16,
STRESS PERIOD   8
1
```

```
            HEAD IN LAYER   1 AT END OF TIME STEP  16 IN STRESS
PERIOD    8
  ---------------------------------------------------------------
-----------

          1           2           3           4           5
6         7           8           9          10
         11          12          13          14

................................................................
...................................................
  1    0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
  2    0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
  3    0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
  4    0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
  5    0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
  6    0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
  7    0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
  8    0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
  9    0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
 10    0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
 11    0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
       0.7127      0.7319      0.7510      0.7700
 12    0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
 13    0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
 14    0.5100      0.5320      0.5536      0.5745      0.5948
0.6148      0.6346      0.6543      0.6739      0.6933
       0.7126      0.7319      0.7510      0.7700
 15    0.5100      0.5316      0.5529      0.5738      0.5942
0.6144      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
```

```
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   16, STRESS
PERIOD    8
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   16,
STRESS PERIOD   8
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        3068.1367       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        3068.1367            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        3068.0615       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =        3068.0615           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02            IN - OUT =
0.0000
```

```
 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   16 IN STRESS PERIOD
8
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.38240E+06  23040.      384.00      16.000
4.38056E-02
         TOTAL TIME 1.71072E+07 2.85120E+05  4752.0      198.00
0.54209
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  17 IN STRESS PERIOD
8
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    8   TIME STEP   17
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 17,
STRESS PERIOD   8
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 17,
STRESS PERIOD   8
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 17,
STRESS PERIOD   8
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 17,
STRESS PERIOD   8
1
              HEAD IN LAYER   1 AT END OF TIME STEP   17 IN STRESS
PERIOD    8
  -----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

...................................................................
.....................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
```

```
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
```

```
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   17, STRESS
PERIOD    8
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   17,
STRESS PERIOD   8
  -------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        3083.6313       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        3083.6313            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        3083.5562       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =        3083.5562           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02            IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   17 IN STRESS PERIOD
8
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
```

```
   TIME STEP LENGTH  86400.       1440.0       24.000      1.00000
2.73785E-03
 STRESS PERIOD TIME 1.46880E+06  24480.       408.00       17.000
4.65435E-02
         TOTAL TIME 1.71936E+07 2.86560E+05  4776.0       199.00
0.54483
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  18 IN STRESS PERIOD
8
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    8   TIME STEP   18
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 18,
STRESS PERIOD   8
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 18,
STRESS PERIOD   8
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 18,
STRESS PERIOD   8
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 18,
STRESS PERIOD   8
1
              HEAD IN LAYER   1 AT END OF TIME STEP  18 IN STRESS
PERIOD    8
  ----------------------------------------------------------------
-----------

            1            2            3            4            5
6            7            8            9           10
           11           12           13           14

..................................................................
......................................................
   1   0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
```

```
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   18, STRESS
PERIOD    8
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   18,
STRESS PERIOD   8
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
```

```
          ---                                       ---
             STORAGE =           0.0000                 STORAGE =
0.0000
       CONSTANT HEAD =        3099.1260           CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                   WELLS =
0.0000

            TOTAL IN =        3099.1260                TOTAL IN =
1.7934E-04

          OUT:                                      OUT:
          ----                                      ----
             STORAGE =           0.0000                 STORAGE =
0.0000
       CONSTANT HEAD =        3099.0508           CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                   WELLS =
0.0000

           TOTAL OUT =        3099.0508               TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02                IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   18 IN STRESS PERIOD
8
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.55520E+06  25920.      432.00      18.000
4.92813E-02
         TOTAL TIME 1.72800E+07 2.88000E+05  4800.0      200.00
0.54757
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  19 IN STRESS PERIOD
8
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    8   TIME STEP   19
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
```

```
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 19,
STRESS PERIOD   8
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 19,
STRESS PERIOD   8
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 19,
STRESS PERIOD   8
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 19,
STRESS PERIOD   8
1
              HEAD IN LAYER   1 AT END OF TIME STEP  19 IN STRESS
PERIOD    8
  ------------------------------------------------------------------
-----------

          1           2           3           4           5
6         7           8           9          10
         11          12          13          14

.................................................................
...................................................
   1  0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
      0.7123      0.7317      0.7509      0.7700
   2  0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
      0.7123      0.7317      0.7509      0.7700
   3  0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
      0.7123      0.7317      0.7509      0.7700
   4  0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
      0.7124      0.7317      0.7509      0.7700
   5  0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
      0.7124      0.7317      0.7509      0.7700
   6  0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
      0.7125      0.7318      0.7510      0.7700
   7  0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
      0.7126      0.7318      0.7510      0.7700
   8  0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
      0.7126      0.7319      0.7510      0.7700
   9  0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
      0.7127      0.7319      0.7510      0.7700
  10  0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
      0.7127      0.7319      0.7510      0.7700
  11  0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
      0.7127      0.7319      0.7510      0.7700
```

```
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   19, STRESS
PERIOD    8
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   19,
STRESS PERIOD   8
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        3114.6206        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

            TOTAL IN =        3114.6206             TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
             STORAGE =           0.0000              STORAGE =
0.0000
```

```
       CONSTANT HEAD =        3114.5454          CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                  WELLS =
0.0000

           TOTAL OUT =        3114.5454              TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02               IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   19 IN STRESS PERIOD
8
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.64160E+06  27360.      456.00      19.000
5.20192E-02
         TOTAL TIME 1.73664E+07 2.89440E+05  4824.0      201.00
0.55031
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  20 IN STRESS PERIOD
8
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    8   TIME STEP   20
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 20,
STRESS PERIOD   8
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 20,
STRESS PERIOD   8
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 20,
STRESS PERIOD   8
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 20,
STRESS PERIOD   8
1
              HEAD IN LAYER   1 AT END OF TIME STEP  20 IN STRESS
PERIOD    8
  -----------------------------------------------------------------
-----------
```

```
              1             2             3             4             5
6             7             8             9            10
             11            12            13            14

....................................................................
.......................................................
    1   0.5100        0.5310        0.5518        0.5725        0.5930
0.6133        0.6334        0.6534        0.6732        0.6928
        0.7123        0.7317        0.7509        0.7700
    2   0.5100        0.5310        0.5519        0.5725        0.5930
0.6133        0.6334        0.6534        0.6732        0.6928
        0.7123        0.7317        0.7509        0.7700
    3   0.5100        0.5311        0.5519        0.5726        0.5931
0.6134        0.6335        0.6535        0.6732        0.6929
        0.7123        0.7317        0.7509        0.7700
    4   0.5100        0.5311        0.5520        0.5727        0.5933
0.6135        0.6336        0.6536        0.6733        0.6929
        0.7124        0.7317        0.7509        0.7700
    5   0.5100        0.5312        0.5522        0.5730        0.5935
0.6137        0.6338        0.6537        0.6734        0.6930
        0.7124        0.7317        0.7509        0.7700
    6   0.5100        0.5314        0.5525        0.5733        0.5938
0.6140        0.6340        0.6539        0.6735        0.6931
        0.7125        0.7318        0.7510        0.7700
    7   0.5100        0.5316        0.5529        0.5737        0.5942
0.6143        0.6343        0.6541        0.6737        0.6932
        0.7126        0.7318        0.7510        0.7700
    8   0.5100        0.5320        0.5536        0.5744        0.5948
0.6148        0.6346        0.6543        0.6738        0.6933
        0.7126        0.7319        0.7510        0.7700
    9   0.5100        0.5326        0.5549        0.5755        0.5955
0.6153        0.6349        0.6545        0.6740        0.6934
        0.7127        0.7319        0.7510        0.7700
   10   0.5100        0.5335        0.5576        0.5772        0.5964
0.6157        0.6352        0.6546        0.6741        0.6934
        0.7127        0.7319        0.7510        0.7700
   11   0.5100      -1.0000E+30   0.5648        0.5791        0.5970
0.6160        0.6353        0.6547        0.6741        0.6935
        0.7127        0.7319        0.7510        0.7700
   12   0.5100        0.5335        0.5576        0.5772        0.5964
0.6157        0.6352        0.6546        0.6741        0.6934
        0.7127        0.7319        0.7510        0.7700
   13   0.5100        0.5326        0.5549        0.5756        0.5955
0.6153        0.6349        0.6545        0.6740        0.6934
        0.7127        0.7319        0.7510        0.7700
   14   0.5100        0.5320        0.5536        0.5745        0.5948
0.6148        0.6346        0.6543        0.6739        0.6933
        0.7126        0.7319        0.7510        0.7700
   15   0.5100        0.5316        0.5529        0.5738        0.5942
0.6144        0.6343        0.6541        0.6737        0.6932
        0.7126        0.7318        0.7510        0.7700
   16   0.5100        0.5314        0.5525        0.5733        0.5938
0.6140        0.6341        0.6539        0.6736        0.6931
        0.7125        0.7318        0.7510        0.7700
```

```
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   20, STRESS
PERIOD    8
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   20,
STRESS PERIOD   8
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000                 STORAGE =
0.0000
       CONSTANT HEAD =        3130.1152           CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                   WELLS =
0.0000

            TOTAL IN =        3130.1152                TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000                 STORAGE =
0.0000
       CONSTANT HEAD =        3130.0400           CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                   WELLS =
0.0000

           TOTAL OUT =        3130.0400               TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02                IN - OUT =
0.0000

 PERCENT DISCREPANCY =             0.00     PERCENT DISCREPANCY =
0.00
```

```
         TIME SUMMARY AT END OF TIME STEP   20 IN STRESS PERIOD
8
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    ----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.72800E+06  28800.      480.00      20.000
5.47570E-02
         TOTAL TIME 1.74528E+07 2.90880E+05  4848.0      202.00
0.55305
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  21 IN STRESS PERIOD
8
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    8   TIME STEP   21
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 21,
STRESS PERIOD   8
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 21,
STRESS PERIOD   8
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 21,
STRESS PERIOD   8
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 21,
STRESS PERIOD   8
1
              HEAD IN LAYER   1 AT END OF TIME STEP  21 IN STRESS
PERIOD    8
  ----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

..................................................................
.....................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
```

```
        0.7123       0.7317       0.7509       0.7700
   4    0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
        0.7124       0.7317       0.7509       0.7700
   5    0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
        0.7124       0.7317       0.7509       0.7700
   6    0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
        0.7125       0.7318       0.7510       0.7700
   7    0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
        0.7126       0.7318       0.7510       0.7700
   8    0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
        0.7126       0.7319       0.7510       0.7700
   9    0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
        0.7127       0.7319       0.7510       0.7700
  10    0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
        0.7127       0.7319       0.7510       0.7700
  11    0.5100      -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
        0.7127       0.7319       0.7510       0.7700
  12    0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
        0.7127       0.7319       0.7510       0.7700
  13    0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
        0.7127       0.7319       0.7510       0.7700
  14    0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
        0.7126       0.7319       0.7510       0.7700
  15    0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
        0.7126       0.7318       0.7510       0.7700
  16    0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
        0.7125       0.7318       0.7510       0.7700
  17    0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
        0.7125       0.7318       0.7509       0.7700
  18    0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
        0.7124       0.7317       0.7509       0.7700
  19    0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
        0.7124       0.7317       0.7509       0.7700
  20    0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
        0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   21, STRESS
PERIOD    8
1
```

```
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   21,
STRESS PERIOD   8
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        3145.6099        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

            TOTAL IN =        3145.6099             TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        3145.5347        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

           TOTAL OUT =        3145.5347            TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02             IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   21 IN STRESS PERIOD
8
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    ------------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.81440E+06  30240.      504.00      21.000
5.74949E-02
         TOTAL TIME 1.75392E+07 2.92320E+05  4872.0      203.00
0.55578
```

```
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  22 IN STRESS PERIOD
8
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    8   TIME STEP   22
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 22,
STRESS PERIOD   8
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 22,
STRESS PERIOD   8
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 22,
STRESS PERIOD   8
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 22,
STRESS PERIOD   8
1
              HEAD IN LAYER   1 AT END OF TIME STEP  22 IN STRESS
PERIOD    8
  ----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

..................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
```

```
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   22, STRESS
PERIOD    8
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   22,
STRESS PERIOD   8
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        3161.1045        CONSTANT HEAD =
1.7934E-04
```

```
                WELLS =           0.0000                    WELLS =
0.0000

             TOTAL IN =        3161.1045                 TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
              STORAGE =           0.0000                  STORAGE =
0.0000
        CONSTANT HEAD =        3161.0293            CONSTANT HEAD =
1.7934E-04
                WELLS =           0.0000                    WELLS =
0.0000

            TOTAL OUT =        3161.0293                TOTAL OUT =
1.7934E-04

             IN - OUT =       7.5195E-02                 IN - OUT =
0.0000

 PERCENT DISCREPANCY =             0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   22 IN STRESS PERIOD
8
                    SECONDS     MINUTES      HOURS        DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.90080E+06  31680.      528.00      22.000
6.02327E-02
         TOTAL TIME 1.76256E+07 2.93760E+05  4896.0      204.00
0.55852
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  23 IN STRESS PERIOD
8
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    8   TIME STEP   23
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 23,
STRESS PERIOD   8
```

UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 23,
STRESS PERIOD 8
UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 23,
STRESS PERIOD 8
UBDSV4 SAVING " WELLS" ON UNIT 953 AT TIME STEP 23,
STRESS PERIOD 8
1
HEAD IN LAYER 1 AT END OF TIME STEP 23 IN STRESS
PERIOD 8

```
            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

...........................................................................
   1  0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
      0.7123      0.7317      0.7509      0.7700
   2  0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
      0.7123      0.7317      0.7509      0.7700
   3  0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
      0.7123      0.7317      0.7509      0.7700
   4  0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
      0.7124      0.7317      0.7509      0.7700
   5  0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
      0.7124      0.7317      0.7509      0.7700
   6  0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
      0.7125      0.7318      0.7510      0.7700
   7  0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
      0.7126      0.7318      0.7510      0.7700
   8  0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
      0.7126      0.7319      0.7510      0.7700
   9  0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
      0.7127      0.7319      0.7510      0.7700
  10  0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
      0.7127      0.7319      0.7510      0.7700
  11  0.5100    -1.0000E+30   0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
      0.7127      0.7319      0.7510      0.7700
  12  0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
      0.7127      0.7319      0.7510      0.7700
  13  0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
```

```
       0.7127      0.7319      0.7510      0.7700
  14   0.5100      0.5320      0.5536      0.5745      0.5948
0.6148      0.6346      0.6543      0.6739      0.6933
       0.7126      0.7319      0.7510      0.7700
  15   0.5100      0.5316      0.5529      0.5738      0.5942
0.6144      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
  16   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6341      0.6539      0.6736      0.6931
       0.7125      0.7318      0.7510      0.7700
  17   0.5100      0.5312      0.5522      0.5730      0.5935
0.6138      0.6339      0.6538      0.6735      0.6930
       0.7125      0.7318      0.7509      0.7700
  18   0.5100      0.5311      0.5521      0.5728      0.5933
0.6136      0.6337      0.6536      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
  19   0.5100      0.5311      0.5520      0.5727      0.5932
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
  20   0.5100      0.5311      0.5519      0.5726      0.5932
0.6135      0.6336      0.6535      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   23, STRESS
PERIOD    8
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   23,
STRESS PERIOD   8
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        3176.5991        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

            TOTAL IN =        3176.5991             TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        3176.5239        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000
```

```
            TOTAL OUT =        3176.5239             TOTAL OUT =
1.7934E-04

             IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =            0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   23 IN STRESS PERIOD
8
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.98720E+06  33120.      552.00      23.000
6.29706E-02
         TOTAL TIME 1.77120E+07 2.95200E+05  4920.0      205.00
0.56126
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  24 IN STRESS PERIOD
8
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    8   TIME STEP   24
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 24,
STRESS PERIOD   8
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 24,
STRESS PERIOD   8
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 24,
STRESS PERIOD   8
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 24,
STRESS PERIOD   8
1
              HEAD IN LAYER   1 AT END OF TIME STEP  24 IN STRESS
PERIOD    8
  -------------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14
```

```
.................................................................
.....................................................
   1  0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
      0.7123       0.7317       0.7509       0.7700
   2  0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
      0.7123       0.7317       0.7509       0.7700
   3  0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
      0.7123       0.7317       0.7509       0.7700
   4  0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
      0.7124       0.7317       0.7509       0.7700
   5  0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
      0.7124       0.7317       0.7509       0.7700
   6  0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
      0.7125       0.7318       0.7510       0.7700
   7  0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
      0.7126       0.7318       0.7510       0.7700
   8  0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
      0.7126       0.7319       0.7510       0.7700
   9  0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
      0.7127       0.7319       0.7510       0.7700
  10  0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
      0.7127       0.7319       0.7510       0.7700
  11  0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
      0.7127       0.7319       0.7510       0.7700
  12  0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
      0.7127       0.7319       0.7510       0.7700
  13  0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
      0.7127       0.7319       0.7510       0.7700
  14  0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
      0.7126       0.7319       0.7510       0.7700
  15  0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
      0.7126       0.7318       0.7510       0.7700
  16  0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
      0.7125       0.7318       0.7510       0.7700
  17  0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
      0.7125       0.7318       0.7509       0.7700
  18  0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
```

```
       0.7124      0.7317      0.7509      0.7700
  19   0.5100      0.5311      0.5520      0.5727      0.5932
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
  20   0.5100      0.5311      0.5519      0.5726      0.5932
0.6135      0.6336      0.6535      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   24, STRESS
PERIOD    8
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   24,
STRESS PERIOD   8
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        3192.0938        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

            TOTAL IN =        3192.0938             TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        3192.0186        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

           TOTAL OUT =        3192.0186            TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02             IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00
```

```
         TIME SUMMARY AT END OF TIME STEP   24 IN STRESS PERIOD
8
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.07360E+06  34560.      576.00      24.000
6.57084E-02
         TOTAL TIME 1.77984E+07 2.96640E+05  4944.0      206.00
0.56400
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  25 IN STRESS PERIOD
8
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    8   TIME STEP   25
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 25,
STRESS PERIOD   8
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 25,
STRESS PERIOD   8
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 25,
STRESS PERIOD   8
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 25,
STRESS PERIOD   8
1
              HEAD IN LAYER   1 AT END OF TIME STEP  25 IN STRESS
PERIOD    8
  -----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

...................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
```

```
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   25, STRESS
PERIOD    8
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   25,
STRESS PERIOD   8
  ------------------------------------------------------------------
--------------
```

```
     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        3207.5884       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        3207.5884            TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        3207.5132       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =        3207.5132           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02            IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   25 IN STRESS PERIOD
8
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.16000E+06  36000.      600.00      25.000
6.84463E-02
         TOTAL TIME 1.78848E+07 2.98080E+05  4968.0      207.00
0.56674
1

 SOLVING FOR HEAD
```

```
     1 CALLS TO PCG ROUTINE FOR TIME STEP  26 IN STRESS PERIOD
8
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    8   TIME STEP   26
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 26,
STRESS PERIOD   8
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 26,
STRESS PERIOD   8
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 26,
STRESS PERIOD   8
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 26,
STRESS PERIOD   8
1
              HEAD IN LAYER   1 AT END OF TIME STEP  26 IN STRESS
PERIOD    8
  ----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

..................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
```

```
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   26, STRESS
PERIOD    8
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   26,
STRESS PERIOD   8
  ----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        3223.0830        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000
```

```
            TOTAL IN =        3223.0830               TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000                STORAGE =
0.0000
       CONSTANT HEAD =        3223.0078          CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                  WELLS =
0.0000

           TOTAL OUT =        3223.0078              TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02               IN - OUT =
0.0000

 PERCENT DISCREPANCY =             0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   26 IN STRESS PERIOD
8
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.24640E+06  37440.      624.00      26.000
7.11841E-02
         TOTAL TIME 1.79712E+07 2.99520E+05  4992.0      208.00
0.56947
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  27 IN STRESS PERIOD
8
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    8   TIME STEP   27
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 27,
STRESS PERIOD   8
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 27,
STRESS PERIOD   8
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 27,
STRESS PERIOD   8
```

```
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 27,
STRESS PERIOD   8
1
            HEAD IN LAYER   1 AT END OF TIME STEP  27 IN STRESS
PERIOD    8
  ---------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

.................................................................
.....................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
      0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
      0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
      0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
      0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
      0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
      0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
      0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
      0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
      0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
      0.7127      0.7319      0.7510      0.7700
  11   0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
      0.7127      0.7319      0.7510      0.7700
  12   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
      0.7127      0.7319      0.7510      0.7700
  13   0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
      0.7127      0.7319      0.7510      0.7700
  14   0.5100      0.5320      0.5536      0.5745      0.5948
0.6148      0.6346      0.6543      0.6739      0.6933
      0.7126      0.7319      0.7510      0.7700
```

```
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   27, STRESS
PERIOD    8
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   27,
STRESS PERIOD   8
  ----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        3238.5776       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        3238.5776            TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        3238.5024       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =        3238.5024           TOTAL OUT =
1.7934E-04
```

```
            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   27 IN STRESS PERIOD
8
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.33280E+06  38880.      648.00      27.000
7.39220E-02
         TOTAL TIME 1.80576E+07 3.00960E+05  5016.0      209.00
0.57221
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  28 IN STRESS PERIOD
8
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    8   TIME STEP   28
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 28,
STRESS PERIOD   8
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 28,
STRESS PERIOD   8
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 28,
STRESS PERIOD   8
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 28,
STRESS PERIOD   8
1
              HEAD IN LAYER   1 AT END OF TIME STEP   28 IN STRESS
PERIOD    8
  -----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

...................................................................
.......................................................
```

```
   1   0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
```

```
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   28, STRESS
PERIOD    8
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   28,
STRESS PERIOD   8
  ----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        3254.0723       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        3254.0723            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        3253.9971       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =        3253.9971           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02            IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   28 IN STRESS PERIOD
8
                    SECONDS      MINUTES       HOURS         DAYS
YEARS
```

```
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.41920E+06  40320.      672.00      28.000
7.66598E-02
         TOTAL TIME 1.81440E+07 3.02400E+05  5040.0      210.00
0.57495
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  29 IN STRESS PERIOD
8
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    8   TIME STEP   29
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 29,
STRESS PERIOD   8
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 29,
STRESS PERIOD   8
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 29,
STRESS PERIOD   8
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 29,
STRESS PERIOD   8
1
              HEAD IN LAYER   1 AT END OF TIME STEP  29 IN STRESS
PERIOD    8
  ------------------------------------------------------------------
-----------

          1           2           3           4           5
6         7           8           9          10
         11          12          13          14

..................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
```

```
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   29, STRESS
PERIOD    8
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   29,
STRESS PERIOD   8
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
```

```
     ------------------                 ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        3269.5669       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        3269.5669            TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        3269.4917       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =        3269.4917           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02            IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   29 IN STRESS PERIOD
8
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.50560E+06  41760.      696.00      29.000
7.93977E-02
         TOTAL TIME 1.82304E+07 3.03840E+05  5064.0      211.00
0.57769
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  30 IN STRESS PERIOD
8
     1 TOTAL ITERATIONS
```

```
 OUTPUT CONTROL FOR STRESS PERIOD    8   TIME STEP   30
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 30,
STRESS PERIOD   8
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 30,
STRESS PERIOD   8
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 30,
STRESS PERIOD   8
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 30,
STRESS PERIOD   8
1
              HEAD IN LAYER   1 AT END OF TIME STEP  30 IN STRESS
PERIOD    8
  ---------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

.................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
```

```
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   30, STRESS
PERIOD    8
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   30,
STRESS PERIOD   8
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =            0.0000             STORAGE =
0.0000
       CONSTANT HEAD =         3285.0615       CONSTANT HEAD =
1.7934E-04
               WELLS =            0.0000               WELLS =
0.0000

            TOTAL IN =         3285.0615            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
```

```
          ----                                        ----
             STORAGE =              0.0000                 STORAGE =
0.0000
       CONSTANT HEAD =           3284.9863           CONSTANT HEAD =
1.7934E-04
               WELLS =              0.0000                   WELLS =
0.0000

           TOTAL OUT =           3284.9863               TOTAL OUT =
1.7934E-04

            IN - OUT =          7.5195E-02                IN - OUT =
0.0000

 PERCENT DISCREPANCY =                0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   30 IN STRESS PERIOD
8
                    SECONDS     MINUTES      HOURS        DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.59200E+06  43200.      720.00      30.000
8.21355E-02
         TOTAL TIME 1.83168E+07 3.05280E+05  5088.0      212.00
0.58042
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  31 IN STRESS PERIOD
8
     1 TOTAL ITERATIONS

 MAXIMUM HEAD CHANGE FOR EACH ITERATION (1 INDICATES THE FIRST
INNER ITERATION):

    HEAD CHANGE    HEAD CHANGE    HEAD CHANGE    HEAD CHANGE
HEAD CHANGE
   LAYER,ROW,COL  LAYER,ROW,COL  LAYER,ROW,COL  LAYER,ROW,COL
LAYER,ROW,COL
 ------------------------------------------------------------------
----------
  1  0.2530E-15
   (  1,   4,   9)

 MAXIMUM RESIDUAL FOR EACH ITERATION (1 INDICATES THE FIRST INNER
ITERATION):
```

```
    RESIDUAL        RESIDUAL        RESIDUAL        RESIDUAL
RESIDUAL
   LAYER,ROW,COL  LAYER,ROW,COL  LAYER,ROW,COL  LAYER,ROW,COL
LAYER,ROW,COL
 ------------------------------------------------------------------
----------
  1  0.1104E-18
   (  1,   6,   9)



 OUTPUT CONTROL FOR STRESS PERIOD    8   TIME STEP   31
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 31,
STRESS PERIOD   8
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 31,
STRESS PERIOD   8
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 31,
STRESS PERIOD   8
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 31,
STRESS PERIOD   8
1
              HEAD IN LAYER   1 AT END OF TIME STEP  31 IN STRESS
PERIOD    8
  -----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

..................................................................
.....................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
```

```
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   31, STRESS
PERIOD    8
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   31,
STRESS PERIOD   8
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
```

```
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        3300.5562         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =        3300.5562              TOTAL IN =
1.7934E-04

          OUT:                                 OUT:
          ----                                 ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        3300.4810         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =        3300.4810             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   31 IN STRESS PERIOD
8
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.67840E+06  44640.      744.00      31.000
8.48734E-02
         TOTAL TIME 1.84032E+07 3.06720E+05  5112.0      213.00
0.58316
1
1
                            STRESS PERIOD NO.    9, LENGTH =
2592000.
                            ---------------------------------------
---------

                              NUMBER OF TIME STEPS =    30

                               MULTIPLIER FOR DELT =     1.000
```

```
                                        INITIAL TIME STEP SIZE =   86400.00

 WELL NO.  LAYER   ROW   COL   STRESS RATE
 --------------------------------------------------
      1      1     11      2     -100.00

      1 WELL

 SOLVING FOR HEAD


     1 CALLS TO PCG ROUTINE FOR TIME STEP   1 IN STRESS PERIOD
9
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    9   TIME STEP    1
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  1,
STRESS PERIOD   9
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  1,
STRESS PERIOD   9
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  1,
STRESS PERIOD   9
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  1,
STRESS PERIOD   9
1
              HEAD IN LAYER   1 AT END OF TIME STEP   1 IN STRESS
PERIOD    9
  ------------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

..................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
```

```
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    1, STRESS
PERIOD    9
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    1,
STRESS PERIOD   9
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
```

```
     ------------------                   ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        3316.0508       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        3316.0508            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        3315.9756       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =        3315.9756           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02            IN - OUT =
0.0000

 PERCENT DISCREPANCY =             0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    1 IN STRESS PERIOD
9
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME  86400.      1440.0      24.000     1.00000
2.73785E-03
         TOTAL TIME 1.84896E+07 3.08160E+05  5136.0      214.00
0.58590
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   2 IN STRESS PERIOD
9
     1 TOTAL ITERATIONS
```

```
 OUTPUT CONTROL FOR STRESS PERIOD    9   TIME STEP    2
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  2,
STRESS PERIOD   9
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  2,
STRESS PERIOD   9
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  2,
STRESS PERIOD   9
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  2,
STRESS PERIOD   9
1
              HEAD IN LAYER   1 AT END OF TIME STEP   2 IN STRESS
PERIOD    9
  ----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

..................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
```

```
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    2, STRESS
PERIOD    9
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    2,
STRESS PERIOD   9
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        3331.5454         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =        3331.5454              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
```

```
          ----                                        ----
             STORAGE =           0.0000                  STORAGE =
0.0000
       CONSTANT HEAD =        3331.4702            CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                    WELLS =
0.0000

           TOTAL OUT =        3331.4702                TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02                 IN - OUT =
0.0000

 PERCENT DISCREPANCY =             0.00      PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    2 IN STRESS PERIOD
9
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.72800E+05  2880.0      48.000      2.0000
5.47570E-03
         TOTAL TIME 1.85760E+07 3.09600E+05  5160.0      215.00
0.58864
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   3 IN STRESS PERIOD
9
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    9   TIME STEP    3
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  3,
STRESS PERIOD   9
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  3,
STRESS PERIOD   9
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  3,
STRESS PERIOD   9
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  3,
STRESS PERIOD   9
1
```

```
              HEAD IN LAYER   1 AT END OF TIME STEP   3 IN STRESS
PERIOD    9
  ---------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

..................................................................
.....................................................
   1    0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
        0.7123      0.7317      0.7509      0.7700
   2    0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
        0.7123      0.7317      0.7509      0.7700
   3    0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
        0.7123      0.7317      0.7509      0.7700
   4    0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
        0.7124      0.7317      0.7509      0.7700
   5    0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
        0.7124      0.7317      0.7509      0.7700
   6    0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
        0.7125      0.7318      0.7510      0.7700
   7    0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
        0.7126      0.7318      0.7510      0.7700
   8    0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
        0.7126      0.7319      0.7510      0.7700
   9    0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
        0.7127      0.7319      0.7510      0.7700
  10    0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
        0.7127      0.7319      0.7510      0.7700
  11    0.5100    -1.0000E+30   0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
        0.7127      0.7319      0.7510      0.7700
  12    0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
        0.7127      0.7319      0.7510      0.7700
  13    0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
        0.7127      0.7319      0.7510      0.7700
  14    0.5100      0.5320      0.5536      0.5745      0.5948
0.6148      0.6346      0.6543      0.6739      0.6933
        0.7126      0.7319      0.7510      0.7700
  15    0.5100      0.5316      0.5529      0.5738      0.5942
0.6144      0.6343      0.6541      0.6737      0.6932
        0.7126      0.7318      0.7510      0.7700
```

```
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    3, STRESS
PERIOD    9
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    3,
STRESS PERIOD   9
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        3347.0400         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =        3347.0400              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        3346.9648         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =        3346.9648             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000
```

```
 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    3 IN STRESS PERIOD
9
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.59200E+05  4320.0      72.000      3.0000
8.21355E-03
         TOTAL TIME 1.86624E+07 3.11040E+05  5184.0      216.00
0.59138
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   4 IN STRESS PERIOD
9
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    9   TIME STEP    4
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  4,
STRESS PERIOD   9
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  4,
STRESS PERIOD   9
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  4,
STRESS PERIOD   9
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  4,
STRESS PERIOD   9
1
              HEAD IN LAYER   1 AT END OF TIME STEP   4 IN STRESS
PERIOD    9
  -----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

.................................................................
.....................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
```

```
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  11   0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
       0.7127      0.7319      0.7510      0.7700
  12   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  13   0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  14   0.5100      0.5320      0.5536      0.5745      0.5948
0.6148      0.6346      0.6543      0.6739      0.6933
       0.7126      0.7319      0.7510      0.7700
  15   0.5100      0.5316      0.5529      0.5738      0.5942
0.6144      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
  16   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6341      0.6539      0.6736      0.6931
       0.7125      0.7318      0.7510      0.7700
  17   0.5100      0.5312      0.5522      0.5730      0.5935
0.6138      0.6339      0.6538      0.6735      0.6930
       0.7125      0.7318      0.7509      0.7700
  18   0.5100      0.5311      0.5521      0.5728      0.5933
0.6136      0.6337      0.6536      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
  19   0.5100      0.5311      0.5520      0.5727      0.5932
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
  20   0.5100      0.5311      0.5519      0.5726      0.5932
0.6135      0.6336      0.6535      0.6733      0.6929
```

0.7124 0.7317 0.7509 0.7700

HEAD WILL BE SAVED ON UNIT 51 AT END OF TIME STEP 4, STRESS PERIOD 9
1
VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP 4, STRESS PERIOD 9

CUMULATIVE VOLUMES	L**3	RATES FOR THIS TIME STEP	L**3/T
IN:		IN:	
STORAGE =	0.0000	STORAGE =	0.0000
CONSTANT HEAD =	3362.5347	CONSTANT HEAD =	1.7934E-04
WELLS =	0.0000	WELLS =	0.0000
TOTAL IN =	3362.5347	TOTAL IN =	1.7934E-04
OUT:		OUT:	
STORAGE =	0.0000	STORAGE =	0.0000
CONSTANT HEAD =	3362.4595	CONSTANT HEAD =	1.7934E-04
WELLS =	0.0000	WELLS =	0.0000
TOTAL OUT =	3362.4595	TOTAL OUT =	1.7934E-04
IN - OUT =	7.5195E-02	IN - OUT =	0.0000
PERCENT DISCREPANCY =	0.00	PERCENT DISCREPANCY =	0.00

TIME SUMMARY AT END OF TIME STEP 4 IN STRESS PERIOD 9

SECONDS MINUTES HOURS DAYS YEARS

```
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 3.45600E+05  5760.0      96.000      4.0000
1.09514E-02
         TOTAL TIME 1.87488E+07 3.12480E+05  5208.0      217.00
0.59411
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   5 IN STRESS PERIOD
9
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    9   TIME STEP    5
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  5,
STRESS PERIOD   9
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  5,
STRESS PERIOD   9
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  5,
STRESS PERIOD   9
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  5,
STRESS PERIOD   9
1
              HEAD IN LAYER   1 AT END OF TIME STEP   5 IN STRESS
PERIOD    9
  ---------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

.................................................................
.....................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
```

```
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    5, STRESS
PERIOD    9
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    5,
STRESS PERIOD   9
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
```

```
           ---                                       ---
             STORAGE =             0.0000              STORAGE =
0.0000
       CONSTANT HEAD =          3378.0293        CONSTANT HEAD =
1.7934E-04
               WELLS =             0.0000                WELLS =
0.0000

            TOTAL IN =          3378.0293             TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =             0.0000              STORAGE =
0.0000
       CONSTANT HEAD =          3377.9541        CONSTANT HEAD =
1.7934E-04
               WELLS =             0.0000                WELLS =
0.0000

           TOTAL OUT =          3377.9541            TOTAL OUT =
1.7934E-04

            IN - OUT =         7.5195E-02             IN - OUT =
0.0000

 PERCENT DISCREPANCY =               0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    5 IN STRESS PERIOD
9
                    SECONDS      MINUTES      HOURS        DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 4.32000E+05  7200.0      120.00      5.0000
1.36893E-02
         TOTAL TIME 1.88352E+07 3.13920E+05  5232.0      218.00
0.59685
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   6 IN STRESS PERIOD
9
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    9   TIME STEP    6
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
```

```
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  6,
STRESS PERIOD   9
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  6,
STRESS PERIOD   9
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  6,
STRESS PERIOD   9
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  6,
STRESS PERIOD   9
1
              HEAD IN LAYER   1 AT END OF TIME STEP   6 IN STRESS
PERIOD    9
  ------------------------------------------------------------------
-----------

           1            2            3            4            5
6          7            8            9           10
          11           12           13           14

....................................................................
.....................................................
   1   0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
```

```
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    6, STRESS
PERIOD    9
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    6,
STRESS PERIOD   9
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        3393.5239        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

            TOTAL IN =        3393.5239             TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
             STORAGE =           0.0000              STORAGE =
0.0000
```

```
       CONSTANT HEAD =        3393.4487         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =        3393.4487             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =            0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    6 IN STRESS PERIOD
9
                    SECONDS     MINUTES      HOURS        DAYS
YEARS
                    -----------------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 5.18400E+05  8640.0      144.00      6.0000
1.64271E-02
         TOTAL TIME 1.89216E+07 3.15360E+05  5256.0      219.00
0.59959
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP    7 IN STRESS PERIOD
9
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    9   TIME STEP    7
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  7,
STRESS PERIOD   9
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  7,
STRESS PERIOD   9
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  7,
STRESS PERIOD   9
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  7,
STRESS PERIOD   9
1
              HEAD IN LAYER   1 AT END OF TIME STEP   7 IN STRESS
PERIOD    9
  ------------------------------------------------------------------
-----------
```

```
             1            2            3            4            5
6            7            8            9           10
            11           12           13           14

.....................................................................
........................................................
   1    0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
        0.7123       0.7317       0.7509       0.7700
   2    0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
        0.7123       0.7317       0.7509       0.7700
   3    0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
        0.7123       0.7317       0.7509       0.7700
   4    0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
        0.7124       0.7317       0.7509       0.7700
   5    0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
        0.7124       0.7317       0.7509       0.7700
   6    0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
        0.7125       0.7318       0.7510       0.7700
   7    0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
        0.7126       0.7318       0.7510       0.7700
   8    0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
        0.7126       0.7319       0.7510       0.7700
   9    0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
        0.7127       0.7319       0.7510       0.7700
  10    0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
        0.7127       0.7319       0.7510       0.7700
  11    0.5100      -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
        0.7127       0.7319       0.7510       0.7700
  12    0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
        0.7127       0.7319       0.7510       0.7700
  13    0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
        0.7127       0.7319       0.7510       0.7700
  14    0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
        0.7126       0.7319       0.7510       0.7700
  15    0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
        0.7126       0.7318       0.7510       0.7700
  16    0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
        0.7125       0.7318       0.7510       0.7700
```

```
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    7, STRESS
PERIOD    9
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    7,
STRESS PERIOD   9
  ----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        3409.0186         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =        3409.0186              TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        3408.9434         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =        3408.9434             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =            0.00     PERCENT DISCREPANCY =
0.00
```

```
         TIME SUMMARY AT END OF TIME STEP    7 IN STRESS PERIOD
9
                     SECONDS     MINUTES      HOURS       DAYS
YEARS
                     ----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 6.04800E+05  10080.      168.00      7.0000
1.91650E-02
         TOTAL TIME 1.90080E+07 3.16800E+05  5280.0      220.00
0.60233
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   8 IN STRESS PERIOD
9
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    9   TIME STEP    8
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  8,
STRESS PERIOD   9
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  8,
STRESS PERIOD   9
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  8,
STRESS PERIOD   9
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  8,
STRESS PERIOD   9
1
              HEAD IN LAYER   1 AT END OF TIME STEP   8 IN STRESS
PERIOD    9
  -----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

...................................................................
.....................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
```

```
          0.7123       0.7317       0.7509       0.7700
    4     0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
          0.7124       0.7317       0.7509       0.7700
    5     0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
          0.7124       0.7317       0.7509       0.7700
    6     0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
          0.7125       0.7318       0.7510       0.7700
    7     0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
          0.7126       0.7318       0.7510       0.7700
    8     0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
          0.7126       0.7319       0.7510       0.7700
    9     0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
          0.7127       0.7319       0.7510       0.7700
   10     0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
          0.7127       0.7319       0.7510       0.7700
   11     0.5100      -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
          0.7127       0.7319       0.7510       0.7700
   12     0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
          0.7127       0.7319       0.7510       0.7700
   13     0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
          0.7127       0.7319       0.7510       0.7700
   14     0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
          0.7126       0.7319       0.7510       0.7700
   15     0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
          0.7126       0.7318       0.7510       0.7700
   16     0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
          0.7125       0.7318       0.7510       0.7700
   17     0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
          0.7125       0.7318       0.7509       0.7700
   18     0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
          0.7124       0.7317       0.7509       0.7700
   19     0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
          0.7124       0.7317       0.7509       0.7700
   20     0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
          0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    8, STRESS
PERIOD    9
1
```

```
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    8,
STRESS PERIOD   9
  ---------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        3424.5132       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        3424.5132            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        3424.4380       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =        3424.4380           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02            IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    8 IN STRESS PERIOD
9
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 6.91200E+05  11520.      192.00      8.0000
2.19028E-02
         TOTAL TIME 1.90944E+07 3.18240E+05  5304.0      221.00
0.60507
```

```
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   9 IN STRESS PERIOD
9
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    9   TIME STEP    9
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  9,
STRESS PERIOD   9
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  9,
STRESS PERIOD   9
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  9,
STRESS PERIOD   9
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  9,
STRESS PERIOD   9
1
              HEAD IN LAYER   1 AT END OF TIME STEP   9 IN STRESS
PERIOD    9
  ----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

..................................................................
......................................................
   1    0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2    0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3    0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4    0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5    0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6    0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7    0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8    0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
```

```
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    9, STRESS
PERIOD    9
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    9,
STRESS PERIOD   9
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        3440.0078        CONSTANT HEAD =
1.7934E-04
```

```
              WELLS =          0.0000                WELLS =
0.0000

           TOTAL IN =       3440.0078             TOTAL IN =
1.7934E-04

          OUT:                                  OUT:
          ----                                  ----
            STORAGE =          0.0000              STORAGE =
0.0000
      CONSTANT HEAD =       3439.9326        CONSTANT HEAD =
1.7934E-04
              WELLS =          0.0000                WELLS =
0.0000

          TOTAL OUT =       3439.9326            TOTAL OUT =
1.7934E-04

           IN - OUT =      7.5195E-02             IN - OUT =
0.0000

 PERCENT DISCREPANCY =          0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    9 IN STRESS PERIOD
9
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 7.77600E+05  12960.      216.00      9.0000
2.46407E-02
         TOTAL TIME 1.91808E+07 3.19680E+05  5328.0      222.00
0.60780
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  10 IN STRESS PERIOD
9
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    9   TIME STEP   10
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 10,
STRESS PERIOD   9
```

```
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 10,
STRESS PERIOD   9
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 10,
STRESS PERIOD   9
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 10,
STRESS PERIOD   9
1
              HEAD IN LAYER   1 AT END OF TIME STEP  10 IN STRESS
PERIOD    9
  ------------------------------------------------------------------
-----------

            1            2            3            4            5
6           7            8            9           10
           11           12           13           14

..................................................................
......................................................
   1   0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100     -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
```

```
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   10, STRESS
PERIOD    9
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   10,
STRESS PERIOD   9
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        3455.5024        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

            TOTAL IN =        3455.5024             TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        3455.4272        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000
```

```
           TOTAL OUT =        3455.4272             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =            0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   10 IN STRESS PERIOD
9
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 8.64000E+05  14400.      240.00     10.0000
2.73785E-02
         TOTAL TIME 1.92672E+07 3.21120E+05  5352.0      223.00
0.61054
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  11 IN STRESS PERIOD
9
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    9   TIME STEP   11
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 11,
STRESS PERIOD   9
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 11,
STRESS PERIOD   9
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 11,
STRESS PERIOD   9
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 11,
STRESS PERIOD   9
1
              HEAD IN LAYER   1 AT END OF TIME STEP  11 IN STRESS
PERIOD    9
  ------------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14
```

```
.....................................................................
.........................................................
   1  0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
      0.7123       0.7317       0.7509       0.7700
   2  0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
      0.7123       0.7317       0.7509       0.7700
   3  0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
      0.7123       0.7317       0.7509       0.7700
   4  0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
      0.7124       0.7317       0.7509       0.7700
   5  0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
      0.7124       0.7317       0.7509       0.7700
   6  0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
      0.7125       0.7318       0.7510       0.7700
   7  0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
      0.7126       0.7318       0.7510       0.7700
   8  0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
      0.7126       0.7319       0.7510       0.7700
   9  0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
      0.7127       0.7319       0.7510       0.7700
  10  0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
      0.7127       0.7319       0.7510       0.7700
  11  0.5100      -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
      0.7127       0.7319       0.7510       0.7700
  12  0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
      0.7127       0.7319       0.7510       0.7700
  13  0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
      0.7127       0.7319       0.7510       0.7700
  14  0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
      0.7126       0.7319       0.7510       0.7700
  15  0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
      0.7126       0.7318       0.7510       0.7700
  16  0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
      0.7125       0.7318       0.7510       0.7700
  17  0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
      0.7125       0.7318       0.7509       0.7700
  18  0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
```

```
       0.7124      0.7317      0.7509      0.7700
  19   0.5100      0.5311      0.5520      0.5727      0.5932
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
  20   0.5100      0.5311      0.5519      0.5726      0.5932
0.6135      0.6336      0.6535      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   11, STRESS
PERIOD    9
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   11,
STRESS PERIOD   9
  -------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        3470.9971         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =        3470.9971              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        3470.9219         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =        3470.9219             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00
```

```
         TIME SUMMARY AT END OF TIME STEP   11 IN STRESS PERIOD
9
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 9.50400E+05  15840.      264.00      11.000
3.01164E-02
         TOTAL TIME 1.93536E+07 3.22560E+05  5376.0      224.00
0.61328
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  12 IN STRESS PERIOD
9
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    9   TIME STEP   12
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 12,
STRESS PERIOD   9
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 12,
STRESS PERIOD   9
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 12,
STRESS PERIOD   9
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 12,
STRESS PERIOD   9
1
              HEAD IN LAYER   1 AT END OF TIME STEP  12 IN STRESS
PERIOD    9
  ---------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

.................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
```

```
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   12, STRESS
PERIOD    9
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   12,
STRESS PERIOD   9
  ------------------------------------------------------------------
--------------
```

```
     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                   IN:
           ---                                   ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        3486.4917       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        3486.4917            TOTAL IN =
1.7934E-04

          OUT:                                  OUT:
          ----                                  ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        3486.4165       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =        3486.4165           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02            IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   12 IN STRESS PERIOD
9
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.03680E+06  17280.      288.00      12.000
3.28542E-02
         TOTAL TIME 1.94400E+07 3.24000E+05  5400.0      225.00
0.61602
1

 SOLVING FOR HEAD
```

```
     1 CALLS TO PCG ROUTINE FOR TIME STEP  13 IN STRESS PERIOD
9
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    9   TIME STEP   13
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 13,
STRESS PERIOD   9
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 13,
STRESS PERIOD   9
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 13,
STRESS PERIOD   9
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 13,
STRESS PERIOD   9
1
              HEAD IN LAYER   1 AT END OF TIME STEP  13 IN STRESS
PERIOD    9
  ----------------------------------------------------------------
-----------

            1            2            3            4            5
6           7            8            9           10
           11           12           13           14

..................................................................
......................................................
   1   0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
```

```
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   13, STRESS
PERIOD    9
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   13,
STRESS PERIOD   9
  ----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        3501.9863        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000
```

```
           TOTAL IN =        3501.9863               TOTAL IN =
1.7934E-04

          OUT:                                      OUT:
          ----                                      ----
            STORAGE =           0.0000                STORAGE =
0.0000
      CONSTANT HEAD =        3501.9111          CONSTANT HEAD =
1.7934E-04
              WELLS =           0.0000                  WELLS =
0.0000

          TOTAL OUT =        3501.9111              TOTAL OUT =
1.7934E-04

           IN - OUT =       7.5195E-02               IN - OUT =
0.0000

 PERCENT DISCREPANCY =            0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   13 IN STRESS PERIOD
9
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.12320E+06  18720.      312.00      13.000
3.55921E-02
         TOTAL TIME 1.95264E+07 3.25440E+05  5424.0      226.00
0.61875
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  14 IN STRESS PERIOD
9
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    9   TIME STEP   14
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 14,
STRESS PERIOD   9
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 14,
STRESS PERIOD   9
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 14,
STRESS PERIOD   9
```

```
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 14,
STRESS PERIOD   9
1
              HEAD IN LAYER   1 AT END OF TIME STEP  14 IN STRESS
PERIOD    9
  ----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

..................................................................
.....................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  11   0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
       0.7127      0.7319      0.7510      0.7700
  12   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  13   0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  14   0.5100      0.5320      0.5536      0.5745      0.5948
0.6148      0.6346      0.6543      0.6739      0.6933
       0.7126      0.7319      0.7510      0.7700
```

```
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   14, STRESS
PERIOD    9
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   14,
STRESS PERIOD   9
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        3517.4810       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        3517.4810            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        3517.4058       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =        3517.4058           TOTAL OUT =
1.7934E-04
```

```
            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   14 IN STRESS PERIOD
9
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.20960E+06  20160.      336.00      14.000
3.83299E-02
         TOTAL TIME 1.96128E+07 3.26880E+05  5448.0      227.00
0.62149
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  15 IN STRESS PERIOD
9
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    9   TIME STEP   15
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 15,
STRESS PERIOD   9
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 15,
STRESS PERIOD   9
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 15,
STRESS PERIOD   9
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 15,
STRESS PERIOD   9
1
              HEAD IN LAYER   1 AT END OF TIME STEP  15 IN STRESS
PERIOD    9
  -----------------------------------------------------------------
-----------

            1           2           3            4           5
6           7           8           9           10
           11          12          13           14

...................................................................
.......................................................
```

```
   1   0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100     -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
```

```
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   15, STRESS
PERIOD    9
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   15,
STRESS PERIOD   9
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =          0.0000                STORAGE =
0.0000
       CONSTANT HEAD =       3532.9756          CONSTANT HEAD =
1.7934E-04
               WELLS =          0.0000                  WELLS =
0.0000

            TOTAL IN =       3532.9756               TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =          0.0000                STORAGE =
0.0000
       CONSTANT HEAD =       3532.9004          CONSTANT HEAD =
1.7934E-04
               WELLS =          0.0000                  WELLS =
0.0000

           TOTAL OUT =       3532.9004              TOTAL OUT =
1.7934E-04

            IN - OUT =      7.5195E-02               IN - OUT =
0.0000

 PERCENT DISCREPANCY =            0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   15 IN STRESS PERIOD
9
                    SECONDS      MINUTES       HOURS        DAYS
YEARS
```

```
                    ----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.29600E+06  21600.      360.00      15.000
4.10678E-02
         TOTAL TIME 1.96992E+07 3.28320E+05  5472.0      228.00
0.62423
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  16 IN STRESS PERIOD
9
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    9   TIME STEP   16
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 16,
STRESS PERIOD   9
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 16,
STRESS PERIOD   9
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 16,
STRESS PERIOD   9
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 16,
STRESS PERIOD   9
1
              HEAD IN LAYER   1 AT END OF TIME STEP  16 IN STRESS
PERIOD    9
  ------------------------------------------------------------------
-----------

          1           2           3           4           5
6         7           8           9          10
         11          12          13          14

....................................................................
.......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
```

```
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   16, STRESS
PERIOD    9
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   16,
STRESS PERIOD   9
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
```

```
     ------------------                   ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        3548.4702       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        3548.4702            TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        3548.3950       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =        3548.3950           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02            IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   16 IN STRESS PERIOD
9
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.38240E+06  23040.      384.00      16.000
4.38056E-02
         TOTAL TIME 1.97856E+07 3.29760E+05  5496.0      229.00
0.62697
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  17 IN STRESS PERIOD
9
     1 TOTAL ITERATIONS
```

```
 OUTPUT CONTROL FOR STRESS PERIOD    9   TIME STEP   17
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 17,
STRESS PERIOD   9
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 17,
STRESS PERIOD   9
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 17,
STRESS PERIOD   9
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 17,
STRESS PERIOD   9
1
              HEAD IN LAYER   1 AT END OF TIME STEP  17 IN STRESS
PERIOD    9
  ----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

..................................................................
......................................................
   1  0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
      0.7123      0.7317      0.7509      0.7700
   2  0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
      0.7123      0.7317      0.7509      0.7700
   3  0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
      0.7123      0.7317      0.7509      0.7700
   4  0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
      0.7124      0.7317      0.7509      0.7700
   5  0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
      0.7124      0.7317      0.7509      0.7700
   6  0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
      0.7125      0.7318      0.7510      0.7700
   7  0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
      0.7126      0.7318      0.7510      0.7700
   8  0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
      0.7126      0.7319      0.7510      0.7700
   9  0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
      0.7127      0.7319      0.7510      0.7700
  10  0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
      0.7127      0.7319      0.7510      0.7700
```

```
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   17, STRESS
PERIOD    9
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   17,
STRESS PERIOD   9
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        3563.9648         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =        3563.9648              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
```

```
          ----                                        ----
             STORAGE =           0.0000                 STORAGE =
0.0000
       CONSTANT HEAD =        3563.8896           CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                   WELLS =
0.0000

           TOTAL OUT =        3563.8896               TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02                IN - OUT =
0.0000

 PERCENT DISCREPANCY =             0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   17 IN STRESS PERIOD
9
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.46880E+06  24480.      408.00      17.000
4.65435E-02
         TOTAL TIME 1.98720E+07 3.31200E+05  5520.0      230.00
0.62971
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  18 IN STRESS PERIOD
9
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    9   TIME STEP   18
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 18,
STRESS PERIOD   9
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 18,
STRESS PERIOD   9
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 18,
STRESS PERIOD   9
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 18,
STRESS PERIOD   9
1
```

HEAD IN LAYER 1 AT END OF TIME STEP 18 IN STRESS PERIOD 9

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	0.5100	0.5310	0.5518	0.5725	0.5930	0.6133	0.6334	0.6534	0.6732	0.6928	0.7123	0.7317	0.7509	0.7700
2	0.5100	0.5310	0.5519	0.5725	0.5930	0.6133	0.6334	0.6534	0.6732	0.6928	0.7123	0.7317	0.7509	0.7700
3	0.5100	0.5311	0.5519	0.5726	0.5931	0.6134	0.6335	0.6535	0.6732	0.6929	0.7123	0.7317	0.7509	0.7700
4	0.5100	0.5311	0.5520	0.5727	0.5933	0.6135	0.6336	0.6536	0.6733	0.6929	0.7124	0.7317	0.7509	0.7700
5	0.5100	0.5312	0.5522	0.5730	0.5935	0.6137	0.6338	0.6537	0.6734	0.6930	0.7124	0.7317	0.7509	0.7700
6	0.5100	0.5314	0.5525	0.5733	0.5938	0.6140	0.6340	0.6539	0.6735	0.6931	0.7125	0.7318	0.7510	0.7700
7	0.5100	0.5316	0.5529	0.5737	0.5942	0.6143	0.6343	0.6541	0.6737	0.6932	0.7126	0.7318	0.7510	0.7700
8	0.5100	0.5320	0.5536	0.5744	0.5948	0.6148	0.6346	0.6543	0.6738	0.6933	0.7126	0.7319	0.7510	0.7700
9	0.5100	0.5326	0.5549	0.5755	0.5955	0.6153	0.6349	0.6545	0.6740	0.6934	0.7127	0.7319	0.7510	0.7700
10	0.5100	0.5335	0.5576	0.5772	0.5964	0.6157	0.6352	0.6546	0.6741	0.6934	0.7127	0.7319	0.7510	0.7700
11	0.5100	-1.0000E+30	0.5648	0.5791	0.5970	0.6160	0.6353	0.6547	0.6741	0.6935	0.7127	0.7319	0.7510	0.7700
12	0.5100	0.5335	0.5576	0.5772	0.5964	0.6157	0.6352	0.6546	0.6741	0.6934	0.7127	0.7319	0.7510	0.7700
13	0.5100	0.5326	0.5549	0.5756	0.5955	0.6153	0.6349	0.6545	0.6740	0.6934	0.7127	0.7319	0.7510	0.7700
14	0.5100	0.5320	0.5536	0.5745	0.5948	0.6148	0.6346	0.6543	0.6739	0.6933	0.7126	0.7319	0.7510	0.7700
15	0.5100	0.5316	0.5529	0.5738	0.5942	0.6144	0.6343	0.6541	0.6737	0.6932	0.7126	0.7318	0.7510	0.7700

```
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   18, STRESS
PERIOD    9
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   18,
STRESS PERIOD   9
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        3579.4595        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

            TOTAL IN =        3579.4595             TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        3579.3843        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

           TOTAL OUT =        3579.3843            TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02             IN - OUT =
0.0000
```

```
 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   18 IN STRESS PERIOD
9
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.55520E+06  25920.      432.00      18.000
4.92813E-02
         TOTAL TIME 1.99584E+07 3.32640E+05  5544.0      231.00
0.63244
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  19 IN STRESS PERIOD
9
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    9   TIME STEP   19
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 19,
STRESS PERIOD   9
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 19,
STRESS PERIOD   9
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 19,
STRESS PERIOD   9
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 19,
STRESS PERIOD   9
1
              HEAD IN LAYER   1 AT END OF TIME STEP  19 IN STRESS
PERIOD    9
  -----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

...................................................................
.....................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
```

```
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
```

0.7124 0.7317 0.7509 0.7700

HEAD WILL BE SAVED ON UNIT 51 AT END OF TIME STEP 19, STRESS PERIOD 9
1
VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP 19, STRESS PERIOD 9

```
     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP      L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =           0.0000
       CONSTANT HEAD =        3594.9541       CONSTANT HEAD =       1.7934E-04
               WELLS =           0.0000               WELLS =           0.0000

            TOTAL IN =        3594.9541            TOTAL IN =       1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =           0.0000
       CONSTANT HEAD =        3594.8789       CONSTANT HEAD =       1.7934E-04
               WELLS =           0.0000               WELLS =           0.0000

           TOTAL OUT =        3594.8789           TOTAL OUT =       1.7934E-04

            IN - OUT =       7.5195E-02            IN - OUT =           0.0000

 PERCENT DISCREPANCY =             0.00     PERCENT DISCREPANCY =         0.00
```

TIME SUMMARY AT END OF TIME STEP 19 IN STRESS PERIOD 9

SECONDS MINUTES HOURS DAYS YEARS

```
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.64160E+06  27360.      456.00      19.000
5.20192E-02
         TOTAL TIME 2.00448E+07 3.34080E+05  5568.0      232.00
0.63518
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  20 IN STRESS PERIOD
9
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    9   TIME STEP   20
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 20,
STRESS PERIOD   9
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 20,
STRESS PERIOD   9
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 20,
STRESS PERIOD   9
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 20,
STRESS PERIOD   9
1
              HEAD IN LAYER   1 AT END OF TIME STEP  20 IN STRESS
PERIOD    9
  ------------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

....................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
```

```
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   20, STRESS
PERIOD    9
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   20,
STRESS PERIOD    9
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
```

```
          ---                                         ---
             STORAGE =            0.0000                 STORAGE =
0.0000
       CONSTANT HEAD =         3610.4487           CONSTANT HEAD =
1.7934E-04
               WELLS =            0.0000                   WELLS =
0.0000

            TOTAL IN =         3610.4487                TOTAL IN =
1.7934E-04

          OUT:                                        OUT:
          ----                                        ----
             STORAGE =            0.0000                 STORAGE =
0.0000
       CONSTANT HEAD =         3610.3735           CONSTANT HEAD =
1.7934E-04
               WELLS =            0.0000                   WELLS =
0.0000

           TOTAL OUT =         3610.3735               TOTAL OUT =
1.7934E-04

            IN - OUT =        7.5195E-02                IN - OUT =
0.0000

 PERCENT DISCREPANCY =              0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   20 IN STRESS PERIOD
9
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    ---------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.72800E+06  28800.      480.00      20.000
5.47570E-02
         TOTAL TIME 2.01312E+07 3.35520E+05  5592.0      233.00
0.63792
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  21 IN STRESS PERIOD
9
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    9   TIME STEP   21
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
```

```
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 21,
STRESS PERIOD   9
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 21,
STRESS PERIOD   9
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 21,
STRESS PERIOD   9
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 21,
STRESS PERIOD   9
1
              HEAD IN LAYER   1 AT END OF TIME STEP  21 IN STRESS
PERIOD    9
  -----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

.................................................................
.....................................................
   1  0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2  0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3  0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4  0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5  0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6  0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7  0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8  0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9  0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10  0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  11  0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
       0.7127      0.7319      0.7510      0.7700
```

```
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   21, STRESS
PERIOD    9
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   21,
STRESS PERIOD   9
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        3625.9434        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

            TOTAL IN =        3625.9434             TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000              STORAGE =
0.0000
```

```
       CONSTANT HEAD =        3625.8682         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =        3625.8682             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   21 IN STRESS PERIOD
9
                    SECONDS     MINUTES      HOURS        DAYS
YEARS
                    -----------------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.81440E+06  30240.      504.00      21.000
5.74949E-02
         TOTAL TIME 2.02176E+07 3.36960E+05  5616.0      234.00
0.64066
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  22 IN STRESS PERIOD
9
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    9   TIME STEP   22
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 22,
STRESS PERIOD   9
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 22,
STRESS PERIOD   9
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 22,
STRESS PERIOD   9
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 22,
STRESS PERIOD   9
1
              HEAD IN LAYER   1 AT END OF TIME STEP  22 IN STRESS
PERIOD    9
  ------------------------------------------------------------------
-----------
```

```
            1          2          3          4          5
6           7          8          9          10
            11         12         13         14

.............................................................
.................................................
  1   0.5100     0.5310     0.5518     0.5725     0.5930
0.6133     0.6334     0.6534     0.6732     0.6928
      0.7123     0.7317     0.7509     0.7700
  2   0.5100     0.5310     0.5519     0.5725     0.5930
0.6133     0.6334     0.6534     0.6732     0.6928
      0.7123     0.7317     0.7509     0.7700
  3   0.5100     0.5311     0.5519     0.5726     0.5931
0.6134     0.6335     0.6535     0.6732     0.6929
      0.7123     0.7317     0.7509     0.7700
  4   0.5100     0.5311     0.5520     0.5727     0.5933
0.6135     0.6336     0.6536     0.6733     0.6929
      0.7124     0.7317     0.7509     0.7700
  5   0.5100     0.5312     0.5522     0.5730     0.5935
0.6137     0.6338     0.6537     0.6734     0.6930
      0.7124     0.7317     0.7509     0.7700
  6   0.5100     0.5314     0.5525     0.5733     0.5938
0.6140     0.6340     0.6539     0.6735     0.6931
      0.7125     0.7318     0.7510     0.7700
  7   0.5100     0.5316     0.5529     0.5737     0.5942
0.6143     0.6343     0.6541     0.6737     0.6932
      0.7126     0.7318     0.7510     0.7700
  8   0.5100     0.5320     0.5536     0.5744     0.5948
0.6148     0.6346     0.6543     0.6738     0.6933
      0.7126     0.7319     0.7510     0.7700
  9   0.5100     0.5326     0.5549     0.5755     0.5955
0.6153     0.6349     0.6545     0.6740     0.6934
      0.7127     0.7319     0.7510     0.7700
 10   0.5100     0.5335     0.5576     0.5772     0.5964
0.6157     0.6352     0.6546     0.6741     0.6934
      0.7127     0.7319     0.7510     0.7700
 11   0.5100    -1.0000E+30 0.5648     0.5791     0.5970
0.6160     0.6353     0.6547     0.6741     0.6935
      0.7127     0.7319     0.7510     0.7700
 12   0.5100     0.5335     0.5576     0.5772     0.5964
0.6157     0.6352     0.6546     0.6741     0.6934
      0.7127     0.7319     0.7510     0.7700
 13   0.5100     0.5326     0.5549     0.5756     0.5955
0.6153     0.6349     0.6545     0.6740     0.6934
      0.7127     0.7319     0.7510     0.7700
 14   0.5100     0.5320     0.5536     0.5745     0.5948
0.6148     0.6346     0.6543     0.6739     0.6933
      0.7126     0.7319     0.7510     0.7700
 15   0.5100     0.5316     0.5529     0.5738     0.5942
0.6144     0.6343     0.6541     0.6737     0.6932
      0.7126     0.7318     0.7510     0.7700
 16   0.5100     0.5314     0.5525     0.5733     0.5938
0.6140     0.6341     0.6539     0.6736     0.6931
      0.7125     0.7318     0.7510     0.7700
```

```
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   22, STRESS
PERIOD    9
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   22,
STRESS PERIOD   9
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        3641.4380       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        3641.4380            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        3641.3628       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =        3641.3628           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02            IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00
```

```
        TIME SUMMARY AT END OF TIME STEP   22 IN STRESS PERIOD
9
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.90080E+06  31680.      528.00      22.000
6.02327E-02
         TOTAL TIME 2.03040E+07 3.38400E+05  5640.0      235.00
0.64339
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  23 IN STRESS PERIOD
9
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    9   TIME STEP   23
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 23,
STRESS PERIOD   9
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 23,
STRESS PERIOD   9
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 23,
STRESS PERIOD   9
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 23,
STRESS PERIOD   9
1
              HEAD IN LAYER   1 AT END OF TIME STEP  23 IN STRESS
PERIOD    9
  -----------------------------------------------------------------
-----------

            1            2            3            4            5
6           7            8            9           10
           11           12           13           14

...................................................................
......................................................
   1   0.5100       0.5310       0.5518       0.5725       0.5930
0.6133      0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133      0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134      0.6335       0.6535       0.6732       0.6929
```

```
         0.7123       0.7317       0.7509       0.7700
    4    0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
         0.7124       0.7317       0.7509       0.7700
    5    0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
         0.7124       0.7317       0.7509       0.7700
    6    0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
         0.7125       0.7318       0.7510       0.7700
    7    0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
         0.7126       0.7318       0.7510       0.7700
    8    0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
         0.7126       0.7319       0.7510       0.7700
    9    0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
         0.7127       0.7319       0.7510       0.7700
   10    0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
         0.7127       0.7319       0.7510       0.7700
   11    0.5100      -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
         0.7127       0.7319       0.7510       0.7700
   12    0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
         0.7127       0.7319       0.7510       0.7700
   13    0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
         0.7127       0.7319       0.7510       0.7700
   14    0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
         0.7126       0.7319       0.7510       0.7700
   15    0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
         0.7126       0.7318       0.7510       0.7700
   16    0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
         0.7125       0.7318       0.7510       0.7700
   17    0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
         0.7125       0.7318       0.7509       0.7700
   18    0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
         0.7124       0.7317       0.7509       0.7700
   19    0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
         0.7124       0.7317       0.7509       0.7700
   20    0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
         0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   23, STRESS
PERIOD    9
1
```

```
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   23,
STRESS PERIOD   9
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        3656.9326       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        3656.9326            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        3656.8574       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =        3656.8574           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02            IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   23 IN STRESS PERIOD
9
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    ------------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.98720E+06  33120.      552.00      23.000
6.29706E-02
         TOTAL TIME 2.03904E+07 3.39840E+05  5664.0      236.00
0.64613
```

```
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  24 IN STRESS PERIOD
9
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    9   TIME STEP   24
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 24,
STRESS PERIOD   9
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 24,
STRESS PERIOD   9
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 24,
STRESS PERIOD   9
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 24,
STRESS PERIOD   9
1
              HEAD IN LAYER   1 AT END OF TIME STEP  24 IN STRESS
PERIOD    9
  -----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

...................................................................
.......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
```

```
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   24, STRESS
PERIOD    9
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   24,
STRESS PERIOD    9
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        3672.4272         CONSTANT HEAD =
1.7934E-04
```

```
               WELLS =           0.0000                     WELLS =
0.0000

            TOTAL IN =        3672.4272                  TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
             STORAGE =           0.0000                   STORAGE =
0.0000
       CONSTANT HEAD =        3672.3521             CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                     WELLS =
0.0000

           TOTAL OUT =        3672.3521                 TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02                  IN - OUT =
0.0000

 PERCENT DISCREPANCY =             0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   24 IN STRESS PERIOD
9
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.07360E+06  34560.      576.00      24.000
6.57084E-02
         TOTAL TIME 2.04768E+07 3.41280E+05  5688.0      237.00
0.64887
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  25 IN STRESS PERIOD
9
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    9   TIME STEP   25
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 25,
STRESS PERIOD   9
```

```
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 25,
STRESS PERIOD   9
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 25,
STRESS PERIOD   9
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 25,
STRESS PERIOD   9
1
              HEAD IN LAYER   1 AT END OF TIME STEP  25 IN STRESS
PERIOD    9
  ------------------------------------------------------------------
-----------

            1            2            3            4            5
6           7            8            9           10
           11           12           13           14

....................................................................
.......................................................
   1   0.5100       0.5310       0.5518       0.5725       0.5930
0.6133      0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133      0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134      0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135      0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137      0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140      0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143      0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148      0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153      0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157      0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100     -1.0000E+30   0.5648       0.5791       0.5970
0.6160      0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157      0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153      0.6349       0.6545       0.6740       0.6934
```

```
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   25, STRESS
PERIOD    9
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   25,
STRESS PERIOD   9
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        3687.9219         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =        3687.9219              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        3687.8467         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000
```

```
           TOTAL OUT =        3687.8467             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   25 IN STRESS PERIOD
9
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.16000E+06  36000.      600.00      25.000
6.84463E-02
         TOTAL TIME 2.05632E+07 3.42720E+05  5712.0      238.00
0.65161
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  26 IN STRESS PERIOD
9
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    9   TIME STEP   26
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 26,
STRESS PERIOD   9
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 26,
STRESS PERIOD   9
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 26,
STRESS PERIOD   9
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 26,
STRESS PERIOD   9
1
              HEAD IN LAYER   1 AT END OF TIME STEP  26 IN STRESS
PERIOD    9
  -----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14
```

```
.................................................................
.....................................................
   1   0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
```

```
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   26, STRESS
PERIOD    9
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   26,
STRESS PERIOD   9
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        3703.4165        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

            TOTAL IN =        3703.4165             TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        3703.3413        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

           TOTAL OUT =        3703.3413            TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02             IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00
```

```
         TIME SUMMARY AT END OF TIME STEP   26 IN STRESS PERIOD
9
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.24640E+06  37440.      624.00      26.000
7.11841E-02
         TOTAL TIME 2.06496E+07 3.44160E+05  5736.0      239.00
0.65435
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  27 IN STRESS PERIOD
9
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    9   TIME STEP   27
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 27,
STRESS PERIOD   9
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 27,
STRESS PERIOD   9
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 27,
STRESS PERIOD   9
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 27,
STRESS PERIOD   9
1
              HEAD IN LAYER   1 AT END OF TIME STEP  27 IN STRESS
PERIOD    9
  -----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

...................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
```

```
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   27, STRESS
PERIOD    9
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   27,
STRESS PERIOD   9
  ------------------------------------------------------------------
--------------
```

```
     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        3718.9111       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        3718.9111            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        3718.8359       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =        3718.8359           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02            IN - OUT =
0.0000

 PERCENT DISCREPANCY =             0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   27 IN STRESS PERIOD
9
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    ----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.33280E+06  38880.      648.00      27.000
7.39220E-02
         TOTAL TIME 2.07360E+07 3.45600E+05  5760.0      240.00
0.65708
1

 SOLVING FOR HEAD
```

```
     1 CALLS TO PCG ROUTINE FOR TIME STEP  28 IN STRESS PERIOD
9
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    9   TIME STEP   28
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 28,
STRESS PERIOD   9
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 28,
STRESS PERIOD   9
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 28,
STRESS PERIOD   9
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 28,
STRESS PERIOD   9
1
              HEAD IN LAYER   1 AT END OF TIME STEP  28 IN STRESS
PERIOD    9
  ---------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

.................................................................
.....................................................
   1  0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
      0.7123      0.7317      0.7509      0.7700
   2  0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
      0.7123      0.7317      0.7509      0.7700
   3  0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
      0.7123      0.7317      0.7509      0.7700
   4  0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
      0.7124      0.7317      0.7509      0.7700
   5  0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
      0.7124      0.7317      0.7509      0.7700
   6  0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
      0.7125      0.7318      0.7510      0.7700
   7  0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
      0.7126      0.7318      0.7510      0.7700
   8  0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
      0.7126      0.7319      0.7510      0.7700
   9  0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
      0.7127      0.7319      0.7510      0.7700
```

```
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   28, STRESS
PERIOD    9
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   28,
STRESS PERIOD   9
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        3734.4058        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000
```

```
            TOTAL IN =        3734.4058                TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        3734.3306         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =        3734.3306             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   28 IN STRESS PERIOD
9
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.41920E+06  40320.      672.00      28.000
7.66598E-02
         TOTAL TIME 2.08224E+07 3.47040E+05  5784.0      241.00
0.65982
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  29 IN STRESS PERIOD
9
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD    9   TIME STEP   29
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 29,
STRESS PERIOD   9
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 29,
STRESS PERIOD   9
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 29,
STRESS PERIOD   9
```

```
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 29,
STRESS PERIOD   9
1
            HEAD IN LAYER   1 AT END OF TIME STEP  29 IN STRESS
PERIOD    9
  ----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

.................................................................
.....................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  11   0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
       0.7127      0.7319      0.7510      0.7700
  12   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  13   0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  14   0.5100      0.5320      0.5536      0.5745      0.5948
0.6148      0.6346      0.6543      0.6739      0.6933
       0.7126      0.7319      0.7510      0.7700
```

```
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   29, STRESS
PERIOD    9
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   29,
STRESS PERIOD   9
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        3749.9004         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =        3749.9004              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        3749.8252         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =        3749.8252             TOTAL OUT =
1.7934E-04
```

```
            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   29 IN STRESS PERIOD
9
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.50560E+06  41760.      696.00      29.000
7.93977E-02
         TOTAL TIME 2.09088E+07 3.48480E+05  5808.0      242.00
0.66256
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  30 IN STRESS PERIOD
9
     1 TOTAL ITERATIONS

 MAXIMUM HEAD CHANGE FOR EACH ITERATION (1 INDICATES THE FIRST
INNER ITERATION):

    HEAD CHANGE    HEAD CHANGE    HEAD CHANGE    HEAD CHANGE
HEAD CHANGE
   LAYER,ROW,COL  LAYER,ROW,COL  LAYER,ROW,COL  LAYER,ROW,COL
LAYER,ROW,COL
 ------------------------------------------------------------------
----------
  1  0.2530E-15
   (  1,   4,   9)

 MAXIMUM RESIDUAL FOR EACH ITERATION (1 INDICATES THE FIRST INNER
ITERATION):

    RESIDUAL       RESIDUAL       RESIDUAL       RESIDUAL
RESIDUAL
   LAYER,ROW,COL  LAYER,ROW,COL  LAYER,ROW,COL  LAYER,ROW,COL
LAYER,ROW,COL
 ------------------------------------------------------------------
----------
  1  0.1104E-18
   (  1,   6,   9)
```

```
 OUTPUT CONTROL FOR STRESS PERIOD    9   TIME STEP   30
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 30,
STRESS PERIOD   9
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 30,
STRESS PERIOD   9
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 30,
STRESS PERIOD   9
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 30,
STRESS PERIOD   9
1
              HEAD IN LAYER   1 AT END OF TIME STEP  30 IN STRESS
PERIOD    9
  ---------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

.................................................................
.....................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
```

```
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   30, STRESS
PERIOD    9
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   30,
STRESS PERIOD   9
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                   IN:
           ---                                   ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        3765.3950       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        3765.3950            TOTAL IN =
1.7934E-04

          OUT:                                  OUT:
```

```
          ----                                        ----
             STORAGE =            0.0000                    STORAGE =
0.0000
       CONSTANT HEAD =         3765.3198              CONSTANT HEAD =
1.7934E-04
               WELLS =            0.0000                      WELLS =
0.0000

           TOTAL OUT =         3765.3198                  TOTAL OUT =
1.7934E-04

            IN - OUT =        7.5195E-02                   IN - OUT =
0.0000

 PERCENT DISCREPANCY =            0.00      PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   30 IN STRESS PERIOD
9
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.59200E+06  43200.      720.00      30.000
8.21355E-02
         TOTAL TIME 2.09952E+07 3.49920E+05  5832.0      243.00
0.66530
1
1
                            STRESS PERIOD NO.   10, LENGTH =
2678400.
                            --------------------------------------
---------

                              NUMBER OF TIME STEPS =    31

                               MULTIPLIER FOR DELT =     1.000

                            INITIAL TIME STEP SIZE =   86400.00

 WELL NO.  LAYER   ROW   COL   STRESS RATE
 --------------------------------------------------
      1      1      11      2      -100.00

      1 WELL

 SOLVING FOR HEAD
```

```
     1 CALLS TO PCG ROUTINE FOR TIME STEP   1 IN STRESS PERIOD
10
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   10   TIME STEP    1
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  1,
STRESS PERIOD  10
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  1,
STRESS PERIOD  10
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  1,
STRESS PERIOD  10
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  1,
STRESS PERIOD  10
1
              HEAD IN LAYER   1 AT END OF TIME STEP   1 IN STRESS
PERIOD   10
  ------------------------------------------------------------------
-----------

           1            2            3            4            5
6          7            8            9           10
          11           12           13           14

...................................................................
.......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
```

```
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    1, STRESS
PERIOD   10
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    1,
STRESS PERIOD  10
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        3780.8896       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000
```

```
            TOTAL IN =        3780.8896               TOTAL IN =
1.7934E-04

          OUT:                                      OUT:
          ----                                      ----
             STORAGE =           0.0000                STORAGE =
0.0000
       CONSTANT HEAD =        3780.8145          CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                  WELLS =
0.0000

           TOTAL OUT =        3780.8145              TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02               IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    1 IN STRESS PERIOD
10
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME  86400.      1440.0      24.000     1.00000
2.73785E-03
         TOTAL TIME 2.10816E+07 3.51360E+05  5856.0      244.00
0.66804
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   2 IN STRESS PERIOD
10
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   10   TIME STEP    2
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  2,
STRESS PERIOD  10
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  2,
STRESS PERIOD  10
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  2,
STRESS PERIOD  10
```

```
 UBDSV4 SAVING "            WELLS" ON UNIT 953 AT TIME STEP  2,
STRESS PERIOD  10
1
              HEAD IN LAYER   1 AT END OF TIME STEP   2 IN STRESS
PERIOD   10
  ----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

..................................................................
.....................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  11   0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
       0.7127      0.7319      0.7510      0.7700
  12   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  13   0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  14   0.5100      0.5320      0.5536      0.5745      0.5948
0.6148      0.6346      0.6543      0.6739      0.6933
       0.7126      0.7319      0.7510      0.7700
```

```
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    2, STRESS
PERIOD   10
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    2,
STRESS PERIOD  10
  ----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        3796.3843       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        3796.3843            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        3796.3091       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =        3796.3091           TOTAL OUT =
1.7934E-04
```

```
            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    2 IN STRESS PERIOD
10
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.72800E+05  2880.0      48.000      2.0000
5.47570E-03
         TOTAL TIME 2.11680E+07 3.52800E+05  5880.0      245.00
0.67077
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   3 IN STRESS PERIOD
10
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   10   TIME STEP    3
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  3,
STRESS PERIOD  10
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  3,
STRESS PERIOD  10
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  3,
STRESS PERIOD  10
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  3,
STRESS PERIOD  10
1
              HEAD IN LAYER   1 AT END OF TIME STEP   3 IN STRESS
PERIOD   10
  -----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

...................................................................
.......................................................
```

```
   1   0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
```

```
       0.7124      0.7317      0.7509      0.7700
  20   0.5100      0.5311      0.5519      0.5726      0.5932
0.6135      0.6336      0.6535      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    3, STRESS
PERIOD   10
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    3,
STRESS PERIOD  10
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        3811.8789       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        3811.8789            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        3811.8037       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =        3811.8037           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02            IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    3 IN STRESS PERIOD
10
                    SECONDS      MINUTES       HOURS        DAYS
YEARS
```

```
                      ----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.59200E+05  4320.0      72.000      3.0000
8.21355E-03
         TOTAL TIME 2.12544E+07 3.54240E+05  5904.0      246.00
0.67351
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   4 IN STRESS PERIOD
10
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   10   TIME STEP    4
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  4,
STRESS PERIOD  10
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  4,
STRESS PERIOD  10
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  4,
STRESS PERIOD  10
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  4,
STRESS PERIOD  10
1
              HEAD IN LAYER   1 AT END OF TIME STEP   4 IN STRESS
PERIOD   10
  ----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

..................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
```

```
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    4, STRESS
PERIOD   10
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    4,
STRESS PERIOD  10
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
```

```
     ------------------                   ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =            0.0000             STORAGE =
0.0000
       CONSTANT HEAD =         3827.3735       CONSTANT HEAD =
1.7934E-04
               WELLS =            0.0000               WELLS =
0.0000

            TOTAL IN =         3827.3735            TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
             STORAGE =            0.0000             STORAGE =
0.0000
       CONSTANT HEAD =         3827.2983       CONSTANT HEAD =
1.7934E-04
               WELLS =            0.0000               WELLS =
0.0000

           TOTAL OUT =         3827.2983           TOTAL OUT =
1.7934E-04

            IN - OUT =        7.5195E-02            IN - OUT =
0.0000

 PERCENT DISCREPANCY =            0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    4 IN STRESS PERIOD
10
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.       1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 3.45600E+05  5760.0      96.000      4.0000
1.09514E-02
         TOTAL TIME 2.13408E+07 3.55680E+05  5928.0      247.00
0.67625
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   5 IN STRESS PERIOD
10
     1 TOTAL ITERATIONS
```

```
 OUTPUT CONTROL FOR STRESS PERIOD   10   TIME STEP    5
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  5,
STRESS PERIOD  10
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  5,
STRESS PERIOD  10
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  5,
STRESS PERIOD  10
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  5,
STRESS PERIOD  10
1
              HEAD IN LAYER   1 AT END OF TIME STEP   5 IN STRESS
PERIOD   10
  -------------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

..................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
```

```
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    5, STRESS
PERIOD   10
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    5,
STRESS PERIOD  10
  ----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        3842.8682       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        3842.8682            TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
```

```
          ----                                        ----
             STORAGE =            0.0000                 STORAGE =
0.0000
       CONSTANT HEAD =         3842.7930           CONSTANT HEAD =
1.7934E-04
               WELLS =            0.0000                   WELLS =
0.0000

           TOTAL OUT =         3842.7930               TOTAL OUT =
1.7934E-04

            IN - OUT =        7.5195E-02                IN - OUT =
0.0000

 PERCENT DISCREPANCY =              0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    5 IN STRESS PERIOD
10
                    SECONDS     MINUTES      HOURS        DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 4.32000E+05  7200.0      120.00      5.0000
1.36893E-02
         TOTAL TIME 2.14272E+07 3.57120E+05  5952.0      248.00
0.67899
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   6 IN STRESS PERIOD
10
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   10   TIME STEP    6
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  6,
STRESS PERIOD  10
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  6,
STRESS PERIOD  10
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  6,
STRESS PERIOD  10
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  6,
STRESS PERIOD  10
1
```

```
                HEAD IN LAYER   1 AT END OF TIME STEP   6 IN STRESS
PERIOD   10
  ---------------------------------------------------------------
-----------

          1           2           3           4           5
6         7           8           9          10
         11          12          13          14

.................................................................
.....................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  11   0.5100    -1.0000E+30   0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
       0.7127      0.7319      0.7510      0.7700
  12   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  13   0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  14   0.5100      0.5320      0.5536      0.5745      0.5948
0.6148      0.6346      0.6543      0.6739      0.6933
       0.7126      0.7319      0.7510      0.7700
  15   0.5100      0.5316      0.5529      0.5738      0.5942
0.6144      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
```

```
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    6, STRESS
PERIOD   10
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    6,
STRESS PERIOD  10
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        3858.3628       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        3858.3628            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        3858.2876       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =        3858.2876           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02            IN - OUT =
0.0000
```

```
 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    6 IN STRESS PERIOD
10
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 5.18400E+05  8640.0      144.00      6.0000
1.64271E-02
         TOTAL TIME 2.15136E+07 3.58560E+05  5976.0      249.00
0.68172
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   7 IN STRESS PERIOD
10
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   10   TIME STEP    7
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  7,
STRESS PERIOD  10
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  7,
STRESS PERIOD  10
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  7,
STRESS PERIOD  10
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  7,
STRESS PERIOD  10
1
              HEAD IN LAYER   1 AT END OF TIME STEP   7 IN STRESS
PERIOD   10
  -----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

...................................................................
.......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
```

```
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100     -1.0000E+30    0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
```

```
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    7, STRESS
PERIOD   10
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    7,
STRESS PERIOD  10
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        3873.8574        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

            TOTAL IN =        3873.8574             TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        3873.7822        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

           TOTAL OUT =        3873.7822            TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02             IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    7 IN STRESS PERIOD
10
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
```

```
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 6.04800E+05  10080.      168.00      7.0000
1.91650E-02
         TOTAL TIME 2.16000E+07 3.60000E+05  6000.0      250.00
0.68446
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   8 IN STRESS PERIOD
10
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   10   TIME STEP    8
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  8,
STRESS PERIOD  10
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  8,
STRESS PERIOD  10
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  8,
STRESS PERIOD  10
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  8,
STRESS PERIOD  10
1
              HEAD IN LAYER   1 AT END OF TIME STEP   8 IN STRESS
PERIOD   10
  ----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

..................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
```

```
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    8, STRESS
PERIOD   10
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    8,
STRESS PERIOD  10
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
```

```
          ---                                       ---
             STORAGE =          0.0000                 STORAGE =
0.0000
       CONSTANT HEAD =       3889.3521           CONSTANT HEAD =
1.7934E-04
               WELLS =          0.0000                   WELLS =
0.0000

            TOTAL IN =       3889.3521                TOTAL IN =
1.7934E-04

          OUT:                                      OUT:
          ----                                      ----
             STORAGE =          0.0000                 STORAGE =
0.0000
       CONSTANT HEAD =       3889.2769           CONSTANT HEAD =
1.7934E-04
               WELLS =          0.0000                   WELLS =
0.0000

           TOTAL OUT =       3889.2769               TOTAL OUT =
1.7934E-04

            IN - OUT =      7.5195E-02                IN - OUT =
0.0000

 PERCENT DISCREPANCY =            0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    8 IN STRESS PERIOD
10
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 6.91200E+05  11520.      192.00      8.0000
2.19028E-02
         TOTAL TIME 2.16864E+07 3.61440E+05  6024.0      251.00
0.68720
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   9 IN STRESS PERIOD
10
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   10   TIME STEP    9
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
```

```
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  9,
STRESS PERIOD  10
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  9,
STRESS PERIOD  10
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  9,
STRESS PERIOD  10
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  9,
STRESS PERIOD  10
1
              HEAD IN LAYER   1 AT END OF TIME STEP   9 IN STRESS
PERIOD   10
  -----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

.................................................................
...........................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  11   0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
       0.7127      0.7319      0.7510      0.7700
```

```
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    9, STRESS
PERIOD   10
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    9,
STRESS PERIOD  10
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        3904.8467         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =        3904.8467              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =
0.0000
```

```
       CONSTANT HEAD =        3904.7715         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =        3904.7715             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    9 IN STRESS PERIOD
10
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 7.77600E+05  12960.      216.00      9.0000
2.46407E-02
         TOTAL TIME 2.17728E+07 3.62880E+05  6048.0      252.00
0.68994
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  10 IN STRESS PERIOD
10
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   10   TIME STEP   10
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 10,
STRESS PERIOD  10
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 10,
STRESS PERIOD  10
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 10,
STRESS PERIOD  10
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 10,
STRESS PERIOD  10
1
              HEAD IN LAYER   1 AT END OF TIME STEP  10 IN STRESS
PERIOD   10
  -----------------------------------------------------------------
-----------
```

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	0.5100	0.5310	0.5518	0.5725	0.5930	0.6133	0.6334	0.6534	0.6732	0.6928	0.7123	0.7317	0.7509	0.7700
2	0.5100	0.5310	0.5519	0.5725	0.5930	0.6133	0.6334	0.6534	0.6732	0.6928	0.7123	0.7317	0.7509	0.7700
3	0.5100	0.5311	0.5519	0.5726	0.5931	0.6134	0.6335	0.6535	0.6732	0.6929	0.7123	0.7317	0.7509	0.7700
4	0.5100	0.5311	0.5520	0.5727	0.5933	0.6135	0.6336	0.6536	0.6733	0.6929	0.7124	0.7317	0.7509	0.7700
5	0.5100	0.5312	0.5522	0.5730	0.5935	0.6137	0.6338	0.6537	0.6734	0.6930	0.7124	0.7317	0.7509	0.7700
6	0.5100	0.5314	0.5525	0.5733	0.5938	0.6140	0.6340	0.6539	0.6735	0.6931	0.7125	0.7318	0.7510	0.7700
7	0.5100	0.5316	0.5529	0.5737	0.5942	0.6143	0.6343	0.6541	0.6737	0.6932	0.7126	0.7318	0.7510	0.7700
8	0.5100	0.5320	0.5536	0.5744	0.5948	0.6148	0.6346	0.6543	0.6738	0.6933	0.7126	0.7319	0.7510	0.7700
9	0.5100	0.5326	0.5549	0.5755	0.5955	0.6153	0.6349	0.6545	0.6740	0.6934	0.7127	0.7319	0.7510	0.7700
10	0.5100	0.5335	0.5576	0.5772	0.5964	0.6157	0.6352	0.6546	0.6741	0.6934	0.7127	0.7319	0.7510	0.7700
11	0.5100	-1.0000E+30	0.5648	0.5791	0.5970	0.6160	0.6353	0.6547	0.6741	0.6935	0.7127	0.7319	0.7510	0.7700
12	0.5100	0.5335	0.5576	0.5772	0.5964	0.6157	0.6352	0.6546	0.6741	0.6934	0.7127	0.7319	0.7510	0.7700
13	0.5100	0.5326	0.5549	0.5756	0.5955	0.6153	0.6349	0.6545	0.6740	0.6934	0.7127	0.7319	0.7510	0.7700
14	0.5100	0.5320	0.5536	0.5745	0.5948	0.6148	0.6346	0.6543	0.6739	0.6933	0.7126	0.7319	0.7510	0.7700
15	0.5100	0.5316	0.5529	0.5738	0.5942	0.6144	0.6343	0.6541	0.6737	0.6932	0.7126	0.7318	0.7510	0.7700
16	0.5100	0.5314	0.5525	0.5733	0.5938	0.6140	0.6341	0.6539	0.6736	0.6931	0.7125	0.7318	0.7510	0.7700

```
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   10, STRESS
PERIOD   10
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   10,
STRESS PERIOD  10
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        3920.3413         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =        3920.3413              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        3920.2661         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =        3920.2661             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00
```

```
         TIME SUMMARY AT END OF TIME STEP   10 IN STRESS PERIOD
10
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 8.64000E+05  14400.      240.00     10.0000
2.73785E-02
         TOTAL TIME 2.18592E+07 3.64320E+05  6072.0      253.00
0.69268
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  11 IN STRESS PERIOD
10
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   10   TIME STEP   11
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 11,
STRESS PERIOD  10
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 11,
STRESS PERIOD  10
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 11,
STRESS PERIOD  10
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 11,
STRESS PERIOD  10
1
              HEAD IN LAYER   1 AT END OF TIME STEP  11 IN STRESS
PERIOD   10
  -----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

...................................................................
.....................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
```

```
         0.7123       0.7317       0.7509       0.7700
   4     0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
         0.7124       0.7317       0.7509       0.7700
   5     0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
         0.7124       0.7317       0.7509       0.7700
   6     0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
         0.7125       0.7318       0.7510       0.7700
   7     0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
         0.7126       0.7318       0.7510       0.7700
   8     0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
         0.7126       0.7319       0.7510       0.7700
   9     0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
         0.7127       0.7319       0.7510       0.7700
  10     0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
         0.7127       0.7319       0.7510       0.7700
  11     0.5100    -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
         0.7127       0.7319       0.7510       0.7700
  12     0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
         0.7127       0.7319       0.7510       0.7700
  13     0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
         0.7127       0.7319       0.7510       0.7700
  14     0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
         0.7126       0.7319       0.7510       0.7700
  15     0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
         0.7126       0.7318       0.7510       0.7700
  16     0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
         0.7125       0.7318       0.7510       0.7700
  17     0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
         0.7125       0.7318       0.7509       0.7700
  18     0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
         0.7124       0.7317       0.7509       0.7700
  19     0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
         0.7124       0.7317       0.7509       0.7700
  20     0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
         0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   11, STRESS
PERIOD   10
1
```

```
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   11,
STRESS PERIOD  10
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        3935.8359         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =        3935.8359              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        3935.7607         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =        3935.7607             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   11 IN STRESS PERIOD
10
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 9.50400E+05  15840.      264.00      11.000
3.01164E-02
         TOTAL TIME 2.19456E+07 3.65760E+05  6096.0      254.00
0.69541
```

```
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  12 IN STRESS PERIOD
10
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   10   TIME STEP   12
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 12,
STRESS PERIOD  10
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 12,
STRESS PERIOD  10
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 12,
STRESS PERIOD  10
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 12,
STRESS PERIOD  10
1
              HEAD IN LAYER   1 AT END OF TIME STEP  12 IN STRESS
PERIOD   10
  -----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

..................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
```

```
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  11   0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
       0.7127      0.7319      0.7510      0.7700
  12   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  13   0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  14   0.5100      0.5320      0.5536      0.5745      0.5948
0.6148      0.6346      0.6543      0.6739      0.6933
       0.7126      0.7319      0.7510      0.7700
  15   0.5100      0.5316      0.5529      0.5738      0.5942
0.6144      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
  16   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6341      0.6539      0.6736      0.6931
       0.7125      0.7318      0.7510      0.7700
  17   0.5100      0.5312      0.5522      0.5730      0.5935
0.6138      0.6339      0.6538      0.6735      0.6930
       0.7125      0.7318      0.7509      0.7700
  18   0.5100      0.5311      0.5521      0.5728      0.5933
0.6136      0.6337      0.6536      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
  19   0.5100      0.5311      0.5520      0.5727      0.5932
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
  20   0.5100      0.5311      0.5519      0.5726      0.5932
0.6135      0.6336      0.6535      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   12, STRESS
PERIOD   10
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   12,
STRESS PERIOD  10
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        3951.3306        CONSTANT HEAD =
1.7934E-04
```

```
                WELLS =           0.0000                     WELLS =
0.0000

             TOTAL IN =        3951.3306                  TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
              STORAGE =           0.0000                   STORAGE =
0.0000
        CONSTANT HEAD =        3951.2554             CONSTANT HEAD =
1.7934E-04
                WELLS =           0.0000                     WELLS =
0.0000

            TOTAL OUT =        3951.2554                 TOTAL OUT =
1.7934E-04

             IN - OUT =       7.5195E-02                  IN - OUT =
0.0000

  PERCENT DISCREPANCY =             0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   12 IN STRESS PERIOD
10
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.03680E+06  17280.      288.00      12.000
3.28542E-02
         TOTAL TIME 2.20320E+07 3.67200E+05  6120.0      255.00
0.69815
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  13 IN STRESS PERIOD
10
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   10   TIME STEP   13
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 13,
STRESS PERIOD  10
```

```
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 13,
STRESS PERIOD  10
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 13,
STRESS PERIOD  10
 UBDSV4 SAVING "            WELLS" ON UNIT 953 AT TIME STEP 13,
STRESS PERIOD  10
1
              HEAD IN LAYER   1 AT END OF TIME STEP  13 IN STRESS
PERIOD   10
  ------------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

..................................................................
......................................................
   1    0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
        0.7123      0.7317      0.7509      0.7700
   2    0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
        0.7123      0.7317      0.7509      0.7700
   3    0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
        0.7123      0.7317      0.7509      0.7700
   4    0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
        0.7124      0.7317      0.7509      0.7700
   5    0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
        0.7124      0.7317      0.7509      0.7700
   6    0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
        0.7125      0.7318      0.7510      0.7700
   7    0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
        0.7126      0.7318      0.7510      0.7700
   8    0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
        0.7126      0.7319      0.7510      0.7700
   9    0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
        0.7127      0.7319      0.7510      0.7700
  10    0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
        0.7127      0.7319      0.7510      0.7700
  11    0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
        0.7127      0.7319      0.7510      0.7700
  12    0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
        0.7127      0.7319      0.7510      0.7700
  13    0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
```

```
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   13, STRESS
PERIOD   10
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   13,
STRESS PERIOD  10
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        3966.8252       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        3966.8252            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        3966.7500       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000
```

```
           TOTAL OUT =        3966.7500             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02               IN - OUT =
0.0000

 PERCENT DISCREPANCY =            0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   13 IN STRESS PERIOD
10
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.12320E+06  18720.      312.00      13.000
3.55921E-02
         TOTAL TIME 2.21184E+07 3.68640E+05  6144.0      256.00
0.70089
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  14 IN STRESS PERIOD
10
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   10   TIME STEP   14
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 14,
STRESS PERIOD  10
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 14,
STRESS PERIOD  10
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 14,
STRESS PERIOD  10
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 14,
STRESS PERIOD  10
1
              HEAD IN LAYER   1 AT END OF TIME STEP  14 IN STRESS
PERIOD   10
  ------------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14
```

```
.......................................................................
..........................................................
   1  0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
      0.7123      0.7317      0.7509      0.7700
   2  0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
      0.7123      0.7317      0.7509      0.7700
   3  0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
      0.7123      0.7317      0.7509      0.7700
   4  0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
      0.7124      0.7317      0.7509      0.7700
   5  0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
      0.7124      0.7317      0.7509      0.7700
   6  0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
      0.7125      0.7318      0.7510      0.7700
   7  0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
      0.7126      0.7318      0.7510      0.7700
   8  0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
      0.7126      0.7319      0.7510      0.7700
   9  0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
      0.7127      0.7319      0.7510      0.7700
  10  0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
      0.7127      0.7319      0.7510      0.7700
  11  0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
      0.7127      0.7319      0.7510      0.7700
  12  0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
      0.7127      0.7319      0.7510      0.7700
  13  0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
      0.7127      0.7319      0.7510      0.7700
  14  0.5100      0.5320      0.5536      0.5745      0.5948
0.6148      0.6346      0.6543      0.6739      0.6933
      0.7126      0.7319      0.7510      0.7700
  15  0.5100      0.5316      0.5529      0.5738      0.5942
0.6144      0.6343      0.6541      0.6737      0.6932
      0.7126      0.7318      0.7510      0.7700
  16  0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6341      0.6539      0.6736      0.6931
      0.7125      0.7318      0.7510      0.7700
  17  0.5100      0.5312      0.5522      0.5730      0.5935
0.6138      0.6339      0.6538      0.6735      0.6930
      0.7125      0.7318      0.7509      0.7700
  18  0.5100      0.5311      0.5521      0.5728      0.5933
0.6136      0.6337      0.6536      0.6734      0.6930
```

```
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   14, STRESS
PERIOD   10
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   14,
STRESS PERIOD  10
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000                STORAGE =
0.0000
       CONSTANT HEAD =        3982.3198          CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                  WELLS =
0.0000

            TOTAL IN =        3982.3198               TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000                STORAGE =
0.0000
       CONSTANT HEAD =        3982.2446          CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                  WELLS =
0.0000

           TOTAL OUT =        3982.2446              TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02               IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00
```

```
         TIME SUMMARY AT END OF TIME STEP   14 IN STRESS PERIOD
10
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.20960E+06  20160.      336.00      14.000
3.83299E-02
         TOTAL TIME 2.22048E+07 3.70080E+05  6168.0      257.00
0.70363
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  15 IN STRESS PERIOD
10
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   10   TIME STEP   15
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 15,
STRESS PERIOD  10
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 15,
STRESS PERIOD  10
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 15,
STRESS PERIOD  10
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 15,
STRESS PERIOD  10
1
              HEAD IN LAYER   1 AT END OF TIME STEP  15 IN STRESS
PERIOD   10
  -----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

...................................................................
.......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
```

```
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   15, STRESS
PERIOD   10
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   15,
STRESS PERIOD  10
  ------------------------------------------------------------------
--------------
```

```
     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        3997.8145        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

            TOTAL IN =        3997.8145             TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        3997.7393        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

           TOTAL OUT =        3997.7393            TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02             IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   15 IN STRESS PERIOD
10
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.29600E+06  21600.      360.00      15.000
4.10678E-02
         TOTAL TIME 2.22912E+07 3.71520E+05  6192.0      258.00
0.70637
1

 SOLVING FOR HEAD
```

```
     1 CALLS TO PCG ROUTINE FOR TIME STEP  16 IN STRESS PERIOD
10
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   10   TIME STEP   16
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 16,
STRESS PERIOD  10
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 16,
STRESS PERIOD  10
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 16,
STRESS PERIOD  10
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 16,
STRESS PERIOD  10
1
              HEAD IN LAYER   1 AT END OF TIME STEP  16 IN STRESS
PERIOD   10
  ----------------------------------------------------------------
-----------

            1            2            3            4            5
6           7            8            9           10
           11           12           13           14

..................................................................
......................................................
   1   0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
```

```
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   16, STRESS
PERIOD   10
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   16,
STRESS PERIOD  10
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        4013.3091       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000
```

```
            TOTAL IN =        4013.3091               TOTAL IN =
1.7934E-04

          OUT:                                      OUT:
          ----                                      ----
             STORAGE =           0.0000                STORAGE =
0.0000
       CONSTANT HEAD =        4013.2339          CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                  WELLS =
0.0000

           TOTAL OUT =        4013.2339              TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02               IN - OUT =
0.0000

 PERCENT DISCREPANCY =             0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   16 IN STRESS PERIOD
10
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.38240E+06  23040.      384.00      16.000
4.38056E-02
         TOTAL TIME 2.23776E+07 3.72960E+05  6216.0      259.00
0.70910
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  17 IN STRESS PERIOD
10
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   10   TIME STEP   17
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 17,
STRESS PERIOD  10
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 17,
STRESS PERIOD  10
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 17,
STRESS PERIOD  10
```

```
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 17,
STRESS PERIOD  10
1
            HEAD IN LAYER   1 AT END OF TIME STEP  17 IN STRESS
PERIOD   10
  ---------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

.................................................................
.....................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  11   0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
       0.7127      0.7319      0.7510      0.7700
  12   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  13   0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  14   0.5100      0.5320      0.5536      0.5745      0.5948
0.6148      0.6346      0.6543      0.6739      0.6933
       0.7126      0.7319      0.7510      0.7700
```

```
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   17, STRESS
PERIOD   10
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   17,
STRESS PERIOD  10
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =            0.0000              STORAGE =
0.0000
       CONSTANT HEAD =         4028.8037        CONSTANT HEAD =
1.7934E-04
               WELLS =            0.0000                WELLS =
0.0000

            TOTAL IN =         4028.8037             TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =            0.0000              STORAGE =
0.0000
       CONSTANT HEAD =         4028.7285        CONSTANT HEAD =
1.7934E-04
               WELLS =            0.0000                WELLS =
0.0000

           TOTAL OUT =         4028.7285            TOTAL OUT =
1.7934E-04
```

```
            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   17 IN STRESS PERIOD
10
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.46880E+06  24480.      408.00      17.000
4.65435E-02
         TOTAL TIME 2.24640E+07 3.74400E+05  6240.0      260.00
0.71184
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  18 IN STRESS PERIOD
10
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   10   TIME STEP   18
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 18,
STRESS PERIOD  10
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 18,
STRESS PERIOD  10
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 18,
STRESS PERIOD  10
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 18,
STRESS PERIOD  10
1
              HEAD IN LAYER   1 AT END OF TIME STEP  18 IN STRESS
PERIOD   10
  ----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

...................................................................
......................................................
```

```
   1   0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
```

```
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   18, STRESS
PERIOD   10
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   18,
STRESS PERIOD  10
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        4044.2983         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =        4044.2983              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        4044.2231         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =        4044.2231             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   18 IN STRESS PERIOD
10
                    SECONDS      MINUTES        HOURS         DAYS
YEARS
```

```
                    ----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.55520E+06  25920.      432.00      18.000
4.92813E-02
         TOTAL TIME 2.25504E+07 3.75840E+05  6264.0      261.00
0.71458
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  19 IN STRESS PERIOD
10
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   10   TIME STEP   19
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 19,
STRESS PERIOD  10
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 19,
STRESS PERIOD  10
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 19,
STRESS PERIOD  10
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 19,
STRESS PERIOD  10
1
              HEAD IN LAYER   1 AT END OF TIME STEP  19 IN STRESS
PERIOD   10
  ------------------------------------------------------------------
-----------

          1           2           3           4           5
6         7           8           9          10
         11          12          13          14

..................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
```

```
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   19, STRESS
PERIOD   10
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   19,
STRESS PERIOD  10
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
```

```
     ------------------                   ------------------------

           IN:                                       IN:
           ---                                       ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        4059.7930         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =        4059.7930              TOTAL IN =
1.7934E-04

          OUT:                                      OUT:
          ----                                      ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        4059.7178         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =        4059.7178             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =             0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   19 IN STRESS PERIOD
10
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.64160E+06  27360.      456.00      19.000
5.20192E-02
         TOTAL TIME 2.26368E+07 3.77280E+05  6288.0      262.00
0.71732
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  20 IN STRESS PERIOD
10
     1 TOTAL ITERATIONS
```

```
 OUTPUT CONTROL FOR STRESS PERIOD   10   TIME STEP   20
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 20,
STRESS PERIOD  10
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 20,
STRESS PERIOD  10
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 20,
STRESS PERIOD  10
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 20,
STRESS PERIOD  10
1
              HEAD IN LAYER   1 AT END OF TIME STEP  20 IN STRESS
PERIOD   10
  ----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

..................................................................
.......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
```

```
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   20, STRESS
PERIOD   10
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   20,
STRESS PERIOD  10
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        4075.2876         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =        4075.2876              TOTAL IN =
1.7934E-04

          OUT:                                      OUT:
```

```
          ----                                          ----
              STORAGE =            0.0000                   STORAGE =
0.0000
        CONSTANT HEAD =         4075.2124             CONSTANT HEAD =
1.7934E-04
                WELLS =            0.0000                     WELLS =
0.0000

            TOTAL OUT =         4075.2124                 TOTAL OUT =
1.7934E-04

             IN - OUT =        7.5195E-02                  IN - OUT =
0.0000

 PERCENT DISCREPANCY =            0.00       PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   20 IN STRESS PERIOD
10
                    SECONDS     MINUTES      HOURS        DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.72800E+06  28800.      480.00      20.000
5.47570E-02
         TOTAL TIME 2.27232E+07 3.78720E+05  6312.0      263.00
0.72005
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  21 IN STRESS PERIOD
10
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   10   TIME STEP   21
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 21,
STRESS PERIOD  10
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 21,
STRESS PERIOD  10
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 21,
STRESS PERIOD  10
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 21,
STRESS PERIOD  10
1
```

```
            HEAD IN LAYER   1 AT END OF TIME STEP  21 IN STRESS
PERIOD   10
  ------------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

....................................................................
...........................................................
  1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
      0.7123      0.7317      0.7509      0.7700
  2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
      0.7123      0.7317      0.7509      0.7700
  3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
      0.7123      0.7317      0.7509      0.7700
  4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
      0.7124      0.7317      0.7509      0.7700
  5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
      0.7124      0.7317      0.7509      0.7700
  6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
      0.7125      0.7318      0.7510      0.7700
  7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
      0.7126      0.7318      0.7510      0.7700
  8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
      0.7126      0.7319      0.7510      0.7700
  9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
      0.7127      0.7319      0.7510      0.7700
 10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
      0.7127      0.7319      0.7510      0.7700
 11   0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
      0.7127      0.7319      0.7510      0.7700
 12   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
      0.7127      0.7319      0.7510      0.7700
 13   0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
      0.7127      0.7319      0.7510      0.7700
 14   0.5100      0.5320      0.5536      0.5745      0.5948
0.6148      0.6346      0.6543      0.6739      0.6933
      0.7126      0.7319      0.7510      0.7700
 15   0.5100      0.5316      0.5529      0.5738      0.5942
0.6144      0.6343      0.6541      0.6737      0.6932
      0.7126      0.7318      0.7510      0.7700
```

```
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   21, STRESS
PERIOD   10
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   21,
STRESS PERIOD  10
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                       IN:
           ---                                       ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        4090.7822       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        4090.7822            TOTAL IN =
1.7934E-04

          OUT:                                      OUT:
          ----                                      ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        4090.7070       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =        4090.7070           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02            IN - OUT =
0.0000
```

```
 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   21 IN STRESS PERIOD
10
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.81440E+06  30240.      504.00      21.000
5.74949E-02
         TOTAL TIME 2.28096E+07 3.80160E+05  6336.0      264.00
0.72279
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  22 IN STRESS PERIOD
10
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   10   TIME STEP   22
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 22,
STRESS PERIOD  10
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 22,
STRESS PERIOD  10
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 22,
STRESS PERIOD  10
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 22,
STRESS PERIOD  10
1
              HEAD IN LAYER   1 AT END OF TIME STEP   22 IN STRESS
PERIOD   10
  ----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

...................................................................
.......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
```

```
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100     -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
```

```
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   22, STRESS
PERIOD   10
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   22,
STRESS PERIOD  10
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        4106.2769         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =        4106.2769              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        4106.2017         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =        4106.2017             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   22 IN STRESS PERIOD
10
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
```

```
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.90080E+06  31680.      528.00      22.000
6.02327E-02
         TOTAL TIME 2.28960E+07 3.81600E+05  6360.0      265.00
0.72553
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  23 IN STRESS PERIOD
10
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   10   TIME STEP   23
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 23,
STRESS PERIOD  10
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 23,
STRESS PERIOD  10
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 23,
STRESS PERIOD  10
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 23,
STRESS PERIOD  10
1
              HEAD IN LAYER   1 AT END OF TIME STEP  23 IN STRESS
PERIOD   10
  -----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

...................................................................
.......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
```

```
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   23, STRESS
PERIOD   10
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   23,
STRESS PERIOD  10
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
```

```
          ---                                       ---
             STORAGE =          0.0000              STORAGE =
0.0000
       CONSTANT HEAD =       4121.7715        CONSTANT HEAD =
1.7934E-04
               WELLS =          0.0000                WELLS =
0.0000

            TOTAL IN =       4121.7715             TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =          0.0000              STORAGE =
0.0000
       CONSTANT HEAD =       4121.6963        CONSTANT HEAD =
1.7934E-04
               WELLS =          0.0000                WELLS =
0.0000

           TOTAL OUT =       4121.6963            TOTAL OUT =
1.7934E-04

            IN - OUT =      7.5195E-02             IN - OUT =
0.0000

 PERCENT DISCREPANCY =            0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   23 IN STRESS PERIOD
10
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    ----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.98720E+06  33120.      552.00      23.000
6.29706E-02
         TOTAL TIME 2.29824E+07 3.83040E+05  6384.0      266.00
0.72827
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  24 IN STRESS PERIOD
10
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   10   TIME STEP   24
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
```

```
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 24,
STRESS PERIOD  10
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 24,
STRESS PERIOD  10
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 24,
STRESS PERIOD  10
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 24,
STRESS PERIOD  10
1
              HEAD IN LAYER   1 AT END OF TIME STEP  24 IN STRESS
PERIOD   10
  -----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

.................................................................
...................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  11   0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
       0.7127      0.7319      0.7510      0.7700
```

```
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   24, STRESS
PERIOD   10
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   24,
STRESS PERIOD  10
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        4137.2661         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =        4137.2661              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =
0.0000
```

```
       CONSTANT HEAD =        4137.1909         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =        4137.1909             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   24 IN STRESS PERIOD
10
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.07360E+06  34560.      576.00      24.000
6.57084E-02
         TOTAL TIME 2.30688E+07 3.84480E+05  6408.0      267.00
0.73101
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  25 IN STRESS PERIOD
10
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   10   TIME STEP   25
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 25,
STRESS PERIOD  10
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 25,
STRESS PERIOD  10
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 25,
STRESS PERIOD  10
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 25,
STRESS PERIOD  10
1
              HEAD IN LAYER   1 AT END OF TIME STEP   25 IN STRESS
PERIOD   10
  -----------------------------------------------------------------
-----------
```

```
              1            2            3            4            5
6             7            8            9           10
             11           12           13           14

.....................................................................
........................................................
   1   0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100     -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
```

```
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   25, STRESS
PERIOD   10
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   25,
STRESS PERIOD  10
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        4152.7607       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        4152.7607            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        4152.6855       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =        4152.6855           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02            IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00
```

```
         TIME SUMMARY AT END OF TIME STEP   25 IN STRESS PERIOD
10
                     SECONDS     MINUTES      HOURS       DAYS
YEARS
                     -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.16000E+06  36000.      600.00      25.000
6.84463E-02
         TOTAL TIME 2.31552E+07 3.85920E+05  6432.0      268.00
0.73374
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  26 IN STRESS PERIOD
10
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   10   TIME STEP   26
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 26,
STRESS PERIOD  10
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 26,
STRESS PERIOD  10
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 26,
STRESS PERIOD  10
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 26,
STRESS PERIOD  10
1
              HEAD IN LAYER   1 AT END OF TIME STEP  26 IN STRESS
PERIOD   10
  ------------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

....................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
```

```
        0.7123       0.7317       0.7509       0.7700
   4    0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
        0.7124       0.7317       0.7509       0.7700
   5    0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
        0.7124       0.7317       0.7509       0.7700
   6    0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
        0.7125       0.7318       0.7510       0.7700
   7    0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
        0.7126       0.7318       0.7510       0.7700
   8    0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
        0.7126       0.7319       0.7510       0.7700
   9    0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
        0.7127       0.7319       0.7510       0.7700
  10    0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
        0.7127       0.7319       0.7510       0.7700
  11    0.5100     -1.0000E+30    0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
        0.7127       0.7319       0.7510       0.7700
  12    0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
        0.7127       0.7319       0.7510       0.7700
  13    0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
        0.7127       0.7319       0.7510       0.7700
  14    0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
        0.7126       0.7319       0.7510       0.7700
  15    0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
        0.7126       0.7318       0.7510       0.7700
  16    0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
        0.7125       0.7318       0.7510       0.7700
  17    0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
        0.7125       0.7318       0.7509       0.7700
  18    0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
        0.7124       0.7317       0.7509       0.7700
  19    0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
        0.7124       0.7317       0.7509       0.7700
  20    0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
        0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   26, STRESS
PERIOD   10
1
```

```
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   26,
STRESS PERIOD  10
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        4168.2554       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        4168.2554            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        4168.1802       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =        4168.1802           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02            IN - OUT =
0.0000

 PERCENT DISCREPANCY =             0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   26 IN STRESS PERIOD
10
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.24640E+06  37440.      624.00      26.000
7.11841E-02
         TOTAL TIME 2.32416E+07 3.87360E+05  6456.0      269.00
0.73648
```

```
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  27 IN STRESS PERIOD
10
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   10   TIME STEP   27
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 27,
STRESS PERIOD  10
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 27,
STRESS PERIOD  10
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 27,
STRESS PERIOD  10
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 27,
STRESS PERIOD  10
1
              HEAD IN LAYER   1 AT END OF TIME STEP  27 IN STRESS
PERIOD   10
  ---------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

.................................................................
.....................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
```

```
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   27, STRESS
PERIOD   10
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   27,
STRESS PERIOD  10
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                   IN:
           ---                                   ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        4183.7500       CONSTANT HEAD =
1.7934E-04
```

```
                WELLS =            0.0000                  WELLS =
0.0000

             TOTAL IN =         4183.7500               TOTAL IN =
1.7934E-04

           OUT:                                    OUT:
           ----                                    ----
              STORAGE =            0.0000                STORAGE =
0.0000
        CONSTANT HEAD =         4183.6748          CONSTANT HEAD =
1.7934E-04
                WELLS =            0.0000                  WELLS =
0.0000

            TOTAL OUT =         4183.6748              TOTAL OUT =
1.7934E-04

             IN - OUT =        7.5195E-02               IN - OUT =
0.0000

 PERCENT DISCREPANCY =              0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   27 IN STRESS PERIOD
10
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.33280E+06  38880.      648.00      27.000
7.39220E-02
         TOTAL TIME 2.33280E+07 3.88800E+05  6480.0      270.00
0.73922
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  28 IN STRESS PERIOD
10
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   10   TIME STEP   28
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 28,
STRESS PERIOD  10
```

```
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 28,
STRESS PERIOD  10
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 28,
STRESS PERIOD  10
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 28,
STRESS PERIOD  10
1
              HEAD IN LAYER   1 AT END OF TIME STEP  28 IN STRESS
PERIOD   10
  ----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

..................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  11   0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
       0.7127      0.7319      0.7510      0.7700
  12   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  13   0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
```

```
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   28, STRESS
PERIOD   10
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   28,
STRESS PERIOD  10
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        4199.2446         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =        4199.2446              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        4199.1694         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000
```

```
           TOTAL OUT =        4199.1694             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =            0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   28 IN STRESS PERIOD
10
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.41920E+06  40320.      672.00      28.000
7.66598E-02
         TOTAL TIME 2.34144E+07 3.90240E+05  6504.0      271.00
0.74196
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  29 IN STRESS PERIOD
10
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   10   TIME STEP   29
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 29,
STRESS PERIOD  10
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 29,
STRESS PERIOD  10
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 29,
STRESS PERIOD  10
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 29,
STRESS PERIOD  10
1
              HEAD IN LAYER   1 AT END OF TIME STEP  29 IN STRESS
PERIOD   10
  -----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14
```

```
.................................................................
.....................................................
   1  0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
      0.7123       0.7317       0.7509       0.7700
   2  0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
      0.7123       0.7317       0.7509       0.7700
   3  0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
      0.7123       0.7317       0.7509       0.7700
   4  0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
      0.7124       0.7317       0.7509       0.7700
   5  0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
      0.7124       0.7317       0.7509       0.7700
   6  0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
      0.7125       0.7318       0.7510       0.7700
   7  0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
      0.7126       0.7318       0.7510       0.7700
   8  0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
      0.7126       0.7319       0.7510       0.7700
   9  0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
      0.7127       0.7319       0.7510       0.7700
  10  0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
      0.7127       0.7319       0.7510       0.7700
  11  0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
      0.7127       0.7319       0.7510       0.7700
  12  0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
      0.7127       0.7319       0.7510       0.7700
  13  0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
      0.7127       0.7319       0.7510       0.7700
  14  0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
      0.7126       0.7319       0.7510       0.7700
  15  0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
      0.7126       0.7318       0.7510       0.7700
  16  0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
      0.7125       0.7318       0.7510       0.7700
  17  0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
      0.7125       0.7318       0.7509       0.7700
  18  0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
```

```
       0.7124      0.7317      0.7509      0.7700
  19   0.5100      0.5311      0.5520      0.5727      0.5932
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
  20   0.5100      0.5311      0.5519      0.5726      0.5932
0.6135      0.6336      0.6535      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   29, STRESS
PERIOD   10
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   29,
STRESS PERIOD  10
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        4214.7393        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

            TOTAL IN =        4214.7393             TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        4214.6641        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

           TOTAL OUT =        4214.6641            TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02             IN - OUT =
0.0000

 PERCENT DISCREPANCY =             0.00     PERCENT DISCREPANCY =
0.00
```

```
          TIME SUMMARY AT END OF TIME STEP   29 IN STRESS PERIOD
10
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    ---------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.50560E+06  41760.      696.00      29.000
7.93977E-02
         TOTAL TIME 2.35008E+07 3.91680E+05  6528.0      272.00
0.74470
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  30 IN STRESS PERIOD
10
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   10   TIME STEP   30
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 30,
STRESS PERIOD  10
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 30,
STRESS PERIOD  10
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 30,
STRESS PERIOD  10
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 30,
STRESS PERIOD  10
1
              HEAD IN LAYER   1 AT END OF TIME STEP  30 IN STRESS
PERIOD   10
  ---------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

.................................................................
.....................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133     0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133     0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134     0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135     0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
```

```
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  11   0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
       0.7127      0.7319      0.7510      0.7700
  12   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  13   0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  14   0.5100      0.5320      0.5536      0.5745      0.5948
0.6148      0.6346      0.6543      0.6739      0.6933
       0.7126      0.7319      0.7510      0.7700
  15   0.5100      0.5316      0.5529      0.5738      0.5942
0.6144      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
  16   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6341      0.6539      0.6736      0.6931
       0.7125      0.7318      0.7510      0.7700
  17   0.5100      0.5312      0.5522      0.5730      0.5935
0.6138      0.6339      0.6538      0.6735      0.6930
       0.7125      0.7318      0.7509      0.7700
  18   0.5100      0.5311      0.5521      0.5728      0.5933
0.6136      0.6337      0.6536      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
  19   0.5100      0.5311      0.5520      0.5727      0.5932
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
  20   0.5100      0.5311      0.5519      0.5726      0.5932
0.6135      0.6336      0.6535      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   30, STRESS
PERIOD   10
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   30,
STRESS PERIOD  10
  ------------------------------------------------------------------
--------------
```

```
     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                   IN:
           ---                                   ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        4230.2339       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        4230.2339            TOTAL IN =
1.7934E-04

          OUT:                                  OUT:
          ----                                  ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        4230.1587       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =        4230.1587           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02            IN - OUT =
0.0000

 PERCENT DISCREPANCY =             0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   30 IN STRESS PERIOD
10
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.59200E+06  43200.      720.00      30.000
8.21355E-02
         TOTAL TIME 2.35872E+07 3.93120E+05  6552.0      273.00
0.74743
1

 SOLVING FOR HEAD
```

```
     1 CALLS TO PCG ROUTINE FOR TIME STEP  31 IN STRESS PERIOD
10
     1 TOTAL ITERATIONS

 MAXIMUM HEAD CHANGE FOR EACH ITERATION (1 INDICATES THE FIRST
INNER ITERATION):

    HEAD CHANGE    HEAD CHANGE    HEAD CHANGE    HEAD CHANGE
HEAD CHANGE
   LAYER,ROW,COL  LAYER,ROW,COL  LAYER,ROW,COL  LAYER,ROW,COL
LAYER,ROW,COL
 ------------------------------------------------------------------
----------
   1 -0.2365E-15
   (  1,  3,  8)

 MAXIMUM RESIDUAL FOR EACH ITERATION (1 INDICATES THE FIRST INNER
ITERATION):

    RESIDUAL       RESIDUAL       RESIDUAL       RESIDUAL
RESIDUAL
   LAYER,ROW,COL  LAYER,ROW,COL  LAYER,ROW,COL  LAYER,ROW,COL
LAYER,ROW,COL
 ------------------------------------------------------------------
----------
   1  0.1206E-18
   (  1,  2, 11)



 OUTPUT CONTROL FOR STRESS PERIOD   10   TIME STEP   31
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 31,
STRESS PERIOD  10
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 31,
STRESS PERIOD  10
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 31,
STRESS PERIOD  10
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 31,
STRESS PERIOD  10
1
              HEAD IN LAYER   1 AT END OF TIME STEP  31 IN STRESS
PERIOD   10
  -----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

...................................................................
.......................................................
```

```
   1   0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
```

```
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   31, STRESS
PERIOD   10
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   31,
STRESS PERIOD  10
  ----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        4245.7285         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =        4245.7285              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        4245.6533         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =        4245.6533             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   31 IN STRESS PERIOD
10
                    SECONDS      MINUTES      HOURS        DAYS
YEARS
```

```
                              ----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.67840E+06  44640.      744.00      31.000
8.48734E-02
        TOTAL TIME 2.36736E+07 3.94560E+05  6576.0      274.00
0.75017
1
1
                                      STRESS PERIOD NO.   11, LENGTH =
2592000.
                                      --------------------------------------
---------

                                        NUMBER OF TIME STEPS =    30

                                         MULTIPLIER FOR DELT =     1.000

                                      INITIAL TIME STEP SIZE =   86400.00

 WELL NO.  LAYER   ROW   COL   STRESS RATE
 --------------------------------------------------
      1      1     11      2     -100.00

      1 WELL

 SOLVING FOR HEAD


     1 CALLS TO PCG ROUTINE FOR TIME STEP   1 IN STRESS PERIOD
11
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   11   TIME STEP    1
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  1,
STRESS PERIOD  11
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  1,
STRESS PERIOD  11
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  1,
STRESS PERIOD  11
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  1,
STRESS PERIOD  11
1
              HEAD IN LAYER   1 AT END OF TIME STEP   1 IN STRESS
PERIOD   11
  ----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14
```

```
.........................................................................
.......................................................
   1  0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
      0.7123       0.7317       0.7509       0.7700
   2  0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
      0.7123       0.7317       0.7509       0.7700
   3  0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
      0.7123       0.7317       0.7509       0.7700
   4  0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
      0.7124       0.7317       0.7509       0.7700
   5  0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
      0.7124       0.7317       0.7509       0.7700
   6  0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
      0.7125       0.7318       0.7510       0.7700
   7  0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
      0.7126       0.7318       0.7510       0.7700
   8  0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
      0.7126       0.7319       0.7510       0.7700
   9  0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
      0.7127       0.7319       0.7510       0.7700
  10  0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
      0.7127       0.7319       0.7510       0.7700
  11  0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
      0.7127       0.7319       0.7510       0.7700
  12  0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
      0.7127       0.7319       0.7510       0.7700
  13  0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
      0.7127       0.7319       0.7510       0.7700
  14  0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
      0.7126       0.7319       0.7510       0.7700
  15  0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
      0.7126       0.7318       0.7510       0.7700
  16  0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
      0.7125       0.7318       0.7510       0.7700
  17  0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
      0.7125       0.7318       0.7509       0.7700
  18  0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
```

```
       0.7124      0.7317      0.7509      0.7700
  19   0.5100      0.5311      0.5520      0.5727      0.5932
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
  20   0.5100      0.5311      0.5519      0.5726      0.5932
0.6135      0.6336      0.6535      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    1, STRESS
PERIOD   11
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    1,
STRESS PERIOD  11
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        4261.2231         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =        4261.2231              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        4261.1479         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =        4261.1479             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =             0.00     PERCENT DISCREPANCY =
0.00
```

```
         TIME SUMMARY AT END OF TIME STEP    1 IN STRESS PERIOD
11
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME  86400.      1440.0      24.000     1.00000
2.73785E-03
         TOTAL TIME 2.37600E+07 3.96000E+05  6600.0      275.00
0.75291
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   2 IN STRESS PERIOD
11
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   11   TIME STEP    2
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  2,
STRESS PERIOD  11
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  2,
STRESS PERIOD  11
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  2,
STRESS PERIOD  11
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  2,
STRESS PERIOD  11
1
              HEAD IN LAYER   1 AT END OF TIME STEP   2 IN STRESS
PERIOD   11
  -----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

...................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
```

```
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    2, STRESS
PERIOD   11
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    2,
STRESS PERIOD  11
  ------------------------------------------------------------------
--------------
```

```
     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        4276.7178        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

            TOTAL IN =        4276.7178             TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        4276.6426        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

           TOTAL OUT =        4276.6426            TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02             IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    2 IN STRESS PERIOD
11
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.72800E+05  2880.0      48.000      2.0000
5.47570E-03
         TOTAL TIME 2.38464E+07 3.97440E+05  6624.0      276.00
0.75565
1

 SOLVING FOR HEAD
```

```
     1 CALLS TO PCG ROUTINE FOR TIME STEP   3 IN STRESS PERIOD
11
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   11   TIME STEP    3
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  3,
STRESS PERIOD  11
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  3,
STRESS PERIOD  11
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  3,
STRESS PERIOD  11
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  3,
STRESS PERIOD  11
1
              HEAD IN LAYER   1 AT END OF TIME STEP   3 IN STRESS
PERIOD   11
  -----------------------------------------------------------------
-----------

           1            2            3            4            5
6          7            8            9           10
          11           12           13           14

...................................................................
.....................................................
   1   0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
```

```
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    3, STRESS
PERIOD   11
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    3,
STRESS PERIOD  11
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        4292.2124        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000
```

```
           TOTAL IN =        4292.2124              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
            STORAGE =           0.0000               STORAGE =
0.0000
      CONSTANT HEAD =        4292.1372         CONSTANT HEAD =
1.7934E-04
              WELLS =           0.0000                 WELLS =
0.0000

          TOTAL OUT =        4292.1372             TOTAL OUT =
1.7934E-04

           IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    3 IN STRESS PERIOD
11
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.59200E+05  4320.0      72.000      3.0000
8.21355E-03
         TOTAL TIME 2.39328E+07 3.98880E+05  6648.0      277.00
0.75838
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   4 IN STRESS PERIOD
11
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   11   TIME STEP    4
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  4,
STRESS PERIOD  11
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  4,
STRESS PERIOD  11
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  4,
STRESS PERIOD  11
```

```
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  4,
STRESS PERIOD  11
1
              HEAD IN LAYER   1 AT END OF TIME STEP   4 IN STRESS
PERIOD   11
  ----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

..................................................................
.......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  11   0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
       0.7127      0.7319      0.7510      0.7700
  12   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  13   0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  14   0.5100      0.5320      0.5536      0.5745      0.5948
0.6148      0.6346      0.6543      0.6739      0.6933
       0.7126      0.7319      0.7510      0.7700
```

```
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    4, STRESS
PERIOD   11
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    4,
STRESS PERIOD  11
  ----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        4307.7070         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =        4307.7070              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        4307.6318         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =        4307.6318             TOTAL OUT =
1.7934E-04
```

```
            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    4 IN STRESS PERIOD
11
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 3.45600E+05  5760.0      96.000      4.0000
1.09514E-02
         TOTAL TIME 2.40192E+07 4.00320E+05  6672.0      278.00
0.76112
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   5 IN STRESS PERIOD
11
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   11   TIME STEP    5
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  5,
STRESS PERIOD  11
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  5,
STRESS PERIOD  11
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  5,
STRESS PERIOD  11
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  5,
STRESS PERIOD  11
1
              HEAD IN LAYER   1 AT END OF TIME STEP   5 IN STRESS
PERIOD   11
  -----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

...................................................................
.......................................................
```

```
   1   0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100     -1.0000E+30    0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
```

```
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    5, STRESS
PERIOD   11
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    5,
STRESS PERIOD  11
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        4323.2017         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =        4323.2017              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        4323.1265         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =        4323.1265             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    5 IN STRESS PERIOD
11
                    SECONDS      MINUTES       HOURS        DAYS
YEARS
```

```
                    ----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 4.32000E+05  7200.0      120.00      5.0000
1.36893E-02
         TOTAL TIME 2.41056E+07 4.01760E+05  6696.0      279.00
0.76386
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   6 IN STRESS PERIOD
11
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   11   TIME STEP    6
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  6,
STRESS PERIOD  11
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  6,
STRESS PERIOD  11
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  6,
STRESS PERIOD  11
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  6,
STRESS PERIOD  11
1
              HEAD IN LAYER   1 AT END OF TIME STEP   6 IN STRESS
PERIOD   11
  ------------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

...................................................................
.......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
```

```
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    6, STRESS
PERIOD   11
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    6,
STRESS PERIOD  11
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
```

```
    ------------------                   ------------------------

          IN:                                      IN:
          ---                                      ---
            STORAGE =           0.0000              STORAGE =
0.0000
      CONSTANT HEAD =        4338.6963        CONSTANT HEAD =
1.7934E-04
              WELLS =           0.0000                WELLS =
0.0000

           TOTAL IN =        4338.6963             TOTAL IN =
1.7934E-04

         OUT:                                     OUT:
         ----                                     ----
            STORAGE =           0.0000              STORAGE =
0.0000
      CONSTANT HEAD =        4338.6211        CONSTANT HEAD =
1.7934E-04
              WELLS =           0.0000                WELLS =
0.0000

          TOTAL OUT =        4338.6211            TOTAL OUT =
1.7934E-04

           IN - OUT =       7.5195E-02             IN - OUT =
0.0000

 PERCENT DISCREPANCY =            0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    6 IN STRESS PERIOD
11
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 5.18400E+05  8640.0      144.00      6.0000
1.64271E-02
         TOTAL TIME 2.41920E+07 4.03200E+05  6720.0      280.00
0.76660
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   7 IN STRESS PERIOD
11
     1 TOTAL ITERATIONS
```

```
 OUTPUT CONTROL FOR STRESS PERIOD   11   TIME STEP    7
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  7,
STRESS PERIOD  11
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  7,
STRESS PERIOD  11
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  7,
STRESS PERIOD  11
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  7,
STRESS PERIOD  11
1
              HEAD IN LAYER   1 AT END OF TIME STEP   7 IN STRESS
PERIOD   11
  ----------------------------------------------------------------
-----------

           1           2           3           4           5
6           7           8           9          10
          11          12          13          14

.................................................................
.....................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
```

```
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    7, STRESS
PERIOD   11
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    7,
STRESS PERIOD  11
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        4354.1909        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

            TOTAL IN =        4354.1909             TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
```

```
          ----                                      ----
             STORAGE =            0.0000              STORAGE =
0.0000
       CONSTANT HEAD =         4354.1157        CONSTANT HEAD =
1.7934E-04
               WELLS =            0.0000                WELLS =
0.0000

           TOTAL OUT =         4354.1157            TOTAL OUT =
1.7934E-04

            IN - OUT =        7.5195E-02             IN - OUT =
0.0000

 PERCENT DISCREPANCY =              0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    7 IN STRESS PERIOD
11
                    SECONDS     MINUTES      HOURS        DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 6.04800E+05  10080.      168.00      7.0000
1.91650E-02
         TOTAL TIME 2.42784E+07 4.04640E+05  6744.0      281.00
0.76934
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   8 IN STRESS PERIOD
11
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   11   TIME STEP    8
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  8,
STRESS PERIOD  11
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  8,
STRESS PERIOD  11
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  8,
STRESS PERIOD  11
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  8,
STRESS PERIOD  11
1
```

```
             HEAD IN LAYER   1 AT END OF TIME STEP   8 IN STRESS
PERIOD   11
  ---------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

.................................................................
.................................................................
   1    0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
        0.7123      0.7317      0.7509      0.7700
   2    0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
        0.7123      0.7317      0.7509      0.7700
   3    0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
        0.7123      0.7317      0.7509      0.7700
   4    0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
        0.7124      0.7317      0.7509      0.7700
   5    0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
        0.7124      0.7317      0.7509      0.7700
   6    0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
        0.7125      0.7318      0.7510      0.7700
   7    0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
        0.7126      0.7318      0.7510      0.7700
   8    0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
        0.7126      0.7319      0.7510      0.7700
   9    0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
        0.7127      0.7319      0.7510      0.7700
  10    0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
        0.7127      0.7319      0.7510      0.7700
  11    0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
        0.7127      0.7319      0.7510      0.7700
  12    0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
        0.7127      0.7319      0.7510      0.7700
  13    0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
        0.7127      0.7319      0.7510      0.7700
  14    0.5100      0.5320      0.5536      0.5745      0.5948
0.6148      0.6346      0.6543      0.6739      0.6933
        0.7126      0.7319      0.7510      0.7700
  15    0.5100      0.5316      0.5529      0.5738      0.5942
0.6144      0.6343      0.6541      0.6737      0.6932
        0.7126      0.7318      0.7510      0.7700
```

```
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    8, STRESS
PERIOD   11
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    8,
STRESS PERIOD  11
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        4369.6855       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        4369.6855            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        4369.6104       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =        4369.6104           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02            IN - OUT =
0.0000
```

```
 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    8 IN STRESS PERIOD
11
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 6.91200E+05  11520.      192.00      8.0000
2.19028E-02
         TOTAL TIME 2.43648E+07 4.06080E+05  6768.0      282.00
0.77207
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   9 IN STRESS PERIOD
11
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   11   TIME STEP    9
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  9,
STRESS PERIOD  11
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  9,
STRESS PERIOD  11
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  9,
STRESS PERIOD  11
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  9,
STRESS PERIOD  11
1
              HEAD IN LAYER   1 AT END OF TIME STEP   9 IN STRESS
PERIOD   11
  ----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

...................................................................
.....................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
```

```
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
```

```
       0.7124      0.7317      0.7509      0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    9, STRESS
PERIOD   11
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    9,
STRESS PERIOD  11
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        4385.1802         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =        4385.1802              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        4385.1050         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =        4385.1050             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    9 IN STRESS PERIOD
11
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
```

```
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 7.77600E+05  12960.      216.00      9.0000
2.46407E-02
         TOTAL TIME 2.44512E+07 4.07520E+05  6792.0      283.00
0.77481
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  10 IN STRESS PERIOD
11
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   11   TIME STEP   10
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 10,
STRESS PERIOD  11
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 10,
STRESS PERIOD  11
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 10,
STRESS PERIOD  11
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 10,
STRESS PERIOD  11
1
              HEAD IN LAYER   1 AT END OF TIME STEP  10 IN STRESS
PERIOD   11
  ------------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

..................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
```

```
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   10, STRESS
PERIOD   11
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   10,
STRESS PERIOD  11
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
```

```
          ---                                         ---
             STORAGE =           0.0000                  STORAGE =
0.0000
       CONSTANT HEAD =        4400.6748            CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                    WELLS =
0.0000

            TOTAL IN =        4400.6748                 TOTAL IN =
1.7934E-04

          OUT:                                        OUT:
          ----                                        ----
             STORAGE =           0.0000                  STORAGE =
0.0000
       CONSTANT HEAD =        4400.5996            CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                    WELLS =
0.0000

           TOTAL OUT =        4400.5996                TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02                 IN - OUT =
0.0000

 PERCENT DISCREPANCY =             0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   10 IN STRESS PERIOD
11
                    SECONDS     MINUTES      HOURS        DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 8.64000E+05  14400.      240.00     10.0000
2.73785E-02
         TOTAL TIME 2.45376E+07 4.08960E+05  6816.0      284.00
0.77755
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  11 IN STRESS PERIOD
11
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   11   TIME STEP   11
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
```

```
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 11,
STRESS PERIOD  11
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 11,
STRESS PERIOD  11
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 11,
STRESS PERIOD  11
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 11,
STRESS PERIOD  11
1
              HEAD IN LAYER   1 AT END OF TIME STEP  11 IN STRESS
PERIOD   11
  -----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

.................................................................
...........................................................
   1  0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2  0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3  0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4  0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5  0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6  0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7  0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8  0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9  0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10  0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  11  0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
       0.7127      0.7319      0.7510      0.7700
```

```
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   11, STRESS
PERIOD   11
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   11,
STRESS PERIOD  11
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                   IN:
           ---                                   ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        4416.1694       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        4416.1694            TOTAL IN =
1.7934E-04

          OUT:                                  OUT:
          ----                                  ----
             STORAGE =           0.0000             STORAGE =
0.0000
```

```
       CONSTANT HEAD =        4416.0942         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =        4416.0942             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =            0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   11 IN STRESS PERIOD
11
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 9.50400E+05  15840.      264.00      11.000
3.01164E-02
         TOTAL TIME 2.46240E+07 4.10400E+05  6840.0      285.00
0.78029
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  12 IN STRESS PERIOD
11
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   11   TIME STEP   12
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 12,
STRESS PERIOD  11
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 12,
STRESS PERIOD  11
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 12,
STRESS PERIOD  11
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 12,
STRESS PERIOD  11
1
              HEAD IN LAYER   1 AT END OF TIME STEP  12 IN STRESS
PERIOD   11
  ------------------------------------------------------------------
-----------
```

```
            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

.....................................................................
.......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  11   0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
       0.7127      0.7319      0.7510      0.7700
  12   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  13   0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  14   0.5100      0.5320      0.5536      0.5745      0.5948
0.6148      0.6346      0.6543      0.6739      0.6933
       0.7126      0.7319      0.7510      0.7700
  15   0.5100      0.5316      0.5529      0.5738      0.5942
0.6144      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
  16   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6341      0.6539      0.6736      0.6931
       0.7125      0.7318      0.7510      0.7700
```

```
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   12, STRESS
PERIOD   11
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   12,
STRESS PERIOD  11
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        4431.6641       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        4431.6641            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        4431.5889       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =        4431.5889           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02            IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00
```

```
         TIME SUMMARY AT END OF TIME STEP   12 IN STRESS PERIOD
11
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.03680E+06  17280.      288.00      12.000
3.28542E-02
         TOTAL TIME 2.47104E+07 4.11840E+05  6864.0      286.00
0.78303
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  13 IN STRESS PERIOD
11
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   11   TIME STEP   13
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 13,
STRESS PERIOD  11
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 13,
STRESS PERIOD  11
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 13,
STRESS PERIOD  11
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 13,
STRESS PERIOD  11
1
              HEAD IN LAYER   1 AT END OF TIME STEP  13 IN STRESS
PERIOD   11
  -----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

...................................................................
.....................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
```

```
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   13, STRESS
PERIOD   11
1
```

```
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   13,
STRESS PERIOD  11
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        4447.1587         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =        4447.1587              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        4447.0835         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =        4447.0835             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   13 IN STRESS PERIOD
11
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.12320E+06  18720.      312.00      13.000
3.55921E-02
         TOTAL TIME 2.47968E+07 4.13280E+05  6888.0      287.00
0.78576
```

```
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  14 IN STRESS PERIOD
11
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   11   TIME STEP   14
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 14,
STRESS PERIOD  11
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 14,
STRESS PERIOD  11
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 14,
STRESS PERIOD  11
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 14,
STRESS PERIOD  11
1
              HEAD IN LAYER   1 AT END OF TIME STEP  14 IN STRESS
PERIOD   11
  ----------------------------------------------------------------
-----------

           1            2            3            4            5
6          7            8            9           10
          11           12           13           14

..................................................................
......................................................
   1   0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
```

```
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   14, STRESS
PERIOD   11
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   14,
STRESS PERIOD  11
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        4462.6533        CONSTANT HEAD =
1.7934E-04
```

```
               WELLS =           0.0000                  WELLS =
0.0000

            TOTAL IN =        4462.6533               TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
             STORAGE =           0.0000                STORAGE =
0.0000
       CONSTANT HEAD =        4462.5781          CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                  WELLS =
0.0000

           TOTAL OUT =        4462.5781              TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02               IN - OUT =
0.0000

 PERCENT DISCREPANCY =             0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   14 IN STRESS PERIOD
11
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.20960E+06  20160.      336.00      14.000
3.83299E-02
         TOTAL TIME 2.48832E+07 4.14720E+05  6912.0      288.00
0.78850
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  15 IN STRESS PERIOD
11
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   11   TIME STEP   15
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 15,
STRESS PERIOD  11
```

```
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 15,
STRESS PERIOD  11
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 15,
STRESS PERIOD  11
 UBDSV4 SAVING "            WELLS" ON UNIT 953 AT TIME STEP 15,
STRESS PERIOD  11
1
              HEAD IN LAYER   1 AT END OF TIME STEP  15 IN STRESS
PERIOD   11
  ------------------------------------------------------------------
-----------

            1            2            3            4            5
6           7            8            9           10
           11           12           13           14

 ..................................................................
 ......................................................
   1   0.5100       0.5310       0.5518       0.5725       0.5930
0.6133      0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133      0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134      0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135      0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137      0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140      0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143      0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148      0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153      0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157      0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100     -1.0000E+30   0.5648       0.5791       0.5970
0.6160      0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157      0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153      0.6349       0.6545       0.6740       0.6934
```

```
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   15, STRESS
PERIOD   11
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   15,
STRESS PERIOD  11
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        4478.1479        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

            TOTAL IN =        4478.1479             TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        4478.0728        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000
```

```
           TOTAL OUT =        4478.0728              TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02               IN - OUT =
0.0000

 PERCENT DISCREPANCY =            0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   15 IN STRESS PERIOD
11
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.29600E+06  21600.      360.00      15.000
4.10678E-02
         TOTAL TIME 2.49696E+07 4.16160E+05  6936.0      289.00
0.79124
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  16 IN STRESS PERIOD
11
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   11   TIME STEP   16
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 16,
STRESS PERIOD  11
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 16,
STRESS PERIOD  11
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 16,
STRESS PERIOD  11
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 16,
STRESS PERIOD  11
1
              HEAD IN LAYER   1 AT END OF TIME STEP  16 IN STRESS
PERIOD   11
  ------------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14
```

```
.....................................................................
........................................................
   1  0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
      0.7123       0.7317       0.7509       0.7700
   2  0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
      0.7123       0.7317       0.7509       0.7700
   3  0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
      0.7123       0.7317       0.7509       0.7700
   4  0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
      0.7124       0.7317       0.7509       0.7700
   5  0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
      0.7124       0.7317       0.7509       0.7700
   6  0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
      0.7125       0.7318       0.7510       0.7700
   7  0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
      0.7126       0.7318       0.7510       0.7700
   8  0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
      0.7126       0.7319       0.7510       0.7700
   9  0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
      0.7127       0.7319       0.7510       0.7700
  10  0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
      0.7127       0.7319       0.7510       0.7700
  11  0.5100      -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
      0.7127       0.7319       0.7510       0.7700
  12  0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
      0.7127       0.7319       0.7510       0.7700
  13  0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
      0.7127       0.7319       0.7510       0.7700
  14  0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
      0.7126       0.7319       0.7510       0.7700
  15  0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
      0.7126       0.7318       0.7510       0.7700
  16  0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
      0.7125       0.7318       0.7510       0.7700
  17  0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
      0.7125       0.7318       0.7509       0.7700
  18  0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
```

```
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135      0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135      0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   16, STRESS
PERIOD   11
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   16,
STRESS PERIOD  11
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                    IN:
           ---                                    ---
             STORAGE =           0.0000                STORAGE =
0.0000
       CONSTANT HEAD =        4493.6426          CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                  WELLS =
0.0000

            TOTAL IN =        4493.6426               TOTAL IN =
1.7934E-04

          OUT:                                   OUT:
          ----                                   ----
             STORAGE =           0.0000                STORAGE =
0.0000
       CONSTANT HEAD =        4493.5674          CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                  WELLS =
0.0000

           TOTAL OUT =        4493.5674              TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02               IN - OUT =
0.0000

 PERCENT DISCREPANCY =             0.00     PERCENT DISCREPANCY =
0.00
```

```
         TIME SUMMARY AT END OF TIME STEP   16 IN STRESS PERIOD
11
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.38240E+06  23040.      384.00      16.000
4.38056E-02
         TOTAL TIME 2.50560E+07 4.17600E+05  6960.0      290.00
0.79398
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  17 IN STRESS PERIOD
11
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   11   TIME STEP   17
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 17,
STRESS PERIOD  11
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 17,
STRESS PERIOD  11
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 17,
STRESS PERIOD  11
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 17,
STRESS PERIOD  11
1
              HEAD IN LAYER   1 AT END OF TIME STEP  17 IN STRESS
PERIOD   11
  ---------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

...................................................................
.....................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
```

```
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   17, STRESS
PERIOD   11
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   17,
STRESS PERIOD  11
  ------------------------------------------------------------------
--------------
```

```
     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =             0.0000             STORAGE =
0.0000
       CONSTANT HEAD =          4509.1372       CONSTANT HEAD =
1.7934E-04
               WELLS =             0.0000               WELLS =
0.0000

            TOTAL IN =          4509.1372            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =             0.0000             STORAGE =
0.0000
       CONSTANT HEAD =          4509.0620       CONSTANT HEAD =
1.7934E-04
               WELLS =             0.0000               WELLS =
0.0000

           TOTAL OUT =          4509.0620           TOTAL OUT =
1.7934E-04

            IN - OUT =         7.5195E-02            IN - OUT =
0.0000

 PERCENT DISCREPANCY =             0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   17 IN STRESS PERIOD
11
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.       1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.46880E+06  24480.      408.00      17.000
4.65435E-02
         TOTAL TIME 2.51424E+07 4.19040E+05  6984.0      291.00
0.79671
1

 SOLVING FOR HEAD
```

```
     1 CALLS TO PCG ROUTINE FOR TIME STEP  18 IN STRESS PERIOD
11
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   11   TIME STEP   18
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 18,
STRESS PERIOD  11
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 18,
STRESS PERIOD  11
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 18,
STRESS PERIOD  11
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 18,
STRESS PERIOD  11
1
              HEAD IN LAYER   1 AT END OF TIME STEP  18 IN STRESS
PERIOD   11
  ------------------------------------------------------------------
-----------

            1            2            3            4            5
6           7            8            9           10
           11           12           13           14

..................................................................
.....................................................
   1   0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
```

```
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   18, STRESS
PERIOD   11
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   18,
STRESS PERIOD  11
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        4524.6318         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000
```

```
            TOTAL IN =        4524.6318               TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        4524.5566         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =        4524.5566             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =             0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   18 IN STRESS PERIOD
11
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.55520E+06  25920.      432.00      18.000
4.92813E-02
         TOTAL TIME 2.52288E+07 4.20480E+05  7008.0      292.00
0.79945
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  19 IN STRESS PERIOD
11
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   11   TIME STEP   19
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 19,
STRESS PERIOD  11
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 19,
STRESS PERIOD  11
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 19,
STRESS PERIOD  11
```

```
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 19,
STRESS PERIOD  11
1
              HEAD IN LAYER   1 AT END OF TIME STEP  19 IN STRESS
PERIOD   11
  ----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

..................................................................
.....................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  11   0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
       0.7127      0.7319      0.7510      0.7700
  12   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  13   0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  14   0.5100      0.5320      0.5536      0.5745      0.5948
0.6148      0.6346      0.6543      0.6739      0.6933
       0.7126      0.7319      0.7510      0.7700
```

```
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   19, STRESS
PERIOD   11
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   19,
STRESS PERIOD  11
  ----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        4540.1265       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        4540.1265            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        4540.0513       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =        4540.0513           TOTAL OUT =
1.7934E-04
```

```
            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   19 IN STRESS PERIOD
11
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.64160E+06  27360.      456.00      19.000
5.20192E-02
         TOTAL TIME 2.53152E+07 4.21920E+05  7032.0      293.00
0.80219
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  20 IN STRESS PERIOD
11
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   11   TIME STEP   20
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 20,
STRESS PERIOD  11
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 20,
STRESS PERIOD  11
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 20,
STRESS PERIOD  11
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 20,
STRESS PERIOD  11
1
              HEAD IN LAYER   1 AT END OF TIME STEP  20 IN STRESS
PERIOD   11
  -----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

..................................................................
.......................................................
```

```
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  11   0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
       0.7127      0.7319      0.7510      0.7700
  12   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  13   0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  14   0.5100      0.5320      0.5536      0.5745      0.5948
0.6148      0.6346      0.6543      0.6739      0.6933
       0.7126      0.7319      0.7510      0.7700
  15   0.5100      0.5316      0.5529      0.5738      0.5942
0.6144      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
  16   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6341      0.6539      0.6736      0.6931
       0.7125      0.7318      0.7510      0.7700
  17   0.5100      0.5312      0.5522      0.5730      0.5935
0.6138      0.6339      0.6538      0.6735      0.6930
       0.7125      0.7318      0.7509      0.7700
  18   0.5100      0.5311      0.5521      0.5728      0.5933
0.6136      0.6337      0.6536      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
  19   0.5100      0.5311      0.5520      0.5727      0.5932
0.6135      0.6336      0.6536      0.6733      0.6929
```

```
       0.7124      0.7317      0.7509      0.7700
  20   0.5100      0.5311      0.5519      0.5726      0.5932
0.6135      0.6336      0.6535      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   20, STRESS
PERIOD   11
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   20,
STRESS PERIOD  11
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        4555.6211         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =        4555.6211              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        4555.5459         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =        4555.5459             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   20 IN STRESS PERIOD
11
                    SECONDS      MINUTES       HOURS        DAYS
YEARS
```

```
                    ----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.72800E+06  28800.      480.00      20.000
5.47570E-02
         TOTAL TIME 2.54016E+07 4.23360E+05  7056.0      294.00
0.80493
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  21 IN STRESS PERIOD
11
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   11   TIME STEP   21
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 21,
STRESS PERIOD  11
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 21,
STRESS PERIOD  11
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 21,
STRESS PERIOD  11
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 21,
STRESS PERIOD  11
1
              HEAD IN LAYER   1 AT END OF TIME STEP  21 IN STRESS
PERIOD   11
  ----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

..................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
```

```
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   21, STRESS
PERIOD   11
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   21,
STRESS PERIOD  11
  ----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
```

```
     ------------------                   ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =            0.0000             STORAGE =
0.0000
       CONSTANT HEAD =         4571.1157       CONSTANT HEAD =
1.7934E-04
               WELLS =            0.0000               WELLS =
0.0000

            TOTAL IN =         4571.1157            TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
             STORAGE =            0.0000             STORAGE =
0.0000
       CONSTANT HEAD =         4571.0405       CONSTANT HEAD =
1.7934E-04
               WELLS =            0.0000               WELLS =
0.0000

           TOTAL OUT =         4571.0405           TOTAL OUT =
1.7934E-04

            IN - OUT =        7.5195E-02            IN - OUT =
0.0000

 PERCENT DISCREPANCY =              0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   21 IN STRESS PERIOD
11
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.       1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.81440E+06  30240.      504.00      21.000
5.74949E-02
         TOTAL TIME 2.54880E+07 4.24800E+05  7080.0      295.00
0.80767
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  22 IN STRESS PERIOD
11
     1 TOTAL ITERATIONS
```

```
 OUTPUT CONTROL FOR STRESS PERIOD   11   TIME STEP   22
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 22,
STRESS PERIOD  11
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 22,
STRESS PERIOD  11
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 22,
STRESS PERIOD  11
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 22,
STRESS PERIOD  11
1
              HEAD IN LAYER   1 AT END OF TIME STEP  22 IN STRESS
PERIOD   11
  ----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

..................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
```

```
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   22, STRESS
PERIOD   11
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   22,
STRESS PERIOD  11
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        4586.6104         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =        4586.6104              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
```

```
          ----                                          ----
             STORAGE =           0.0000                 STORAGE =
0.0000
       CONSTANT HEAD =        4586.5352           CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                   WELLS =
0.0000

           TOTAL OUT =        4586.5352               TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02                IN - OUT =
0.0000

 PERCENT DISCREPANCY =             0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   22 IN STRESS PERIOD
11
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.90080E+06  31680.      528.00      22.000
6.02327E-02
         TOTAL TIME 2.55744E+07 4.26240E+05  7104.0      296.00
0.81040
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  23 IN STRESS PERIOD
11
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   11   TIME STEP   23
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 23,
STRESS PERIOD  11
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 23,
STRESS PERIOD  11
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 23,
STRESS PERIOD  11
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 23,
STRESS PERIOD  11
1
```

```
               HEAD IN LAYER   1 AT END OF TIME STEP  23 IN STRESS
PERIOD   11
  ---------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

.................................................................
...........................................................
   1    0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
        0.7123      0.7317      0.7509      0.7700
   2    0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
        0.7123      0.7317      0.7509      0.7700
   3    0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
        0.7123      0.7317      0.7509      0.7700
   4    0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
        0.7124      0.7317      0.7509      0.7700
   5    0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
        0.7124      0.7317      0.7509      0.7700
   6    0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
        0.7125      0.7318      0.7510      0.7700
   7    0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
        0.7126      0.7318      0.7510      0.7700
   8    0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
        0.7126      0.7319      0.7510      0.7700
   9    0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
        0.7127      0.7319      0.7510      0.7700
  10    0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
        0.7127      0.7319      0.7510      0.7700
  11    0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
        0.7127      0.7319      0.7510      0.7700
  12    0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
        0.7127      0.7319      0.7510      0.7700
  13    0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
        0.7127      0.7319      0.7510      0.7700
  14    0.5100      0.5320      0.5536      0.5745      0.5948
0.6148      0.6346      0.6543      0.6739      0.6933
        0.7126      0.7319      0.7510      0.7700
  15    0.5100      0.5316      0.5529      0.5738      0.5942
0.6144      0.6343      0.6541      0.6737      0.6932
        0.7126      0.7318      0.7510      0.7700
```

```
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   23, STRESS
PERIOD   11
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   23,
STRESS PERIOD  11
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        4602.1050         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =        4602.1050              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        4602.0298         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =        4602.0298             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000
```

```
 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   23 IN STRESS PERIOD
11
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.98720E+06  33120.      552.00      23.000
6.29706E-02
         TOTAL TIME 2.56608E+07 4.27680E+05  7128.0      297.00
0.81314
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  24 IN STRESS PERIOD
11
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   11   TIME STEP   24
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 24,
STRESS PERIOD  11
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 24,
STRESS PERIOD  11
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 24,
STRESS PERIOD  11
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 24,
STRESS PERIOD  11
1
              HEAD IN LAYER   1 AT END OF TIME STEP  24 IN STRESS
PERIOD   11
  -----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

...................................................................
.....................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
```

```
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  11   0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
       0.7127      0.7319      0.7510      0.7700
  12   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  13   0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  14   0.5100      0.5320      0.5536      0.5745      0.5948
0.6148      0.6346      0.6543      0.6739      0.6933
       0.7126      0.7319      0.7510      0.7700
  15   0.5100      0.5316      0.5529      0.5738      0.5942
0.6144      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
  16   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6341      0.6539      0.6736      0.6931
       0.7125      0.7318      0.7510      0.7700
  17   0.5100      0.5312      0.5522      0.5730      0.5935
0.6138      0.6339      0.6538      0.6735      0.6930
       0.7125      0.7318      0.7509      0.7700
  18   0.5100      0.5311      0.5521      0.5728      0.5933
0.6136      0.6337      0.6536      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
  19   0.5100      0.5311      0.5520      0.5727      0.5932
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
  20   0.5100      0.5311      0.5519      0.5726      0.5932
0.6135      0.6336      0.6535      0.6733      0.6929
```

```
       0.7124      0.7317      0.7509      0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   24, STRESS
PERIOD   11
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   24,
STRESS PERIOD  11
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        4617.5996       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        4617.5996            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        4617.5244       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =        4617.5244           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02            IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   24 IN STRESS PERIOD
11
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
```

```
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.07360E+06  34560.      576.00      24.000
6.57084E-02
         TOTAL TIME 2.57472E+07 4.29120E+05  7152.0      298.00
0.81588
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  25 IN STRESS PERIOD
11
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   11   TIME STEP   25
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 25,
STRESS PERIOD  11
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 25,
STRESS PERIOD  11
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 25,
STRESS PERIOD  11
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 25,
STRESS PERIOD  11
1
              HEAD IN LAYER   1 AT END OF TIME STEP  25 IN STRESS
PERIOD   11
  ----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

..................................................................
.....................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
```

```
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   25, STRESS
PERIOD   11
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   25,
STRESS PERIOD  11
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
```

```
          ---                                        ---
            STORAGE =          0.0000             STORAGE =
0.0000
      CONSTANT HEAD =       4633.0942       CONSTANT HEAD =
1.7934E-04
              WELLS =          0.0000               WELLS =
0.0000

           TOTAL IN =       4633.0942            TOTAL IN =
1.7934E-04

          OUT:                                       OUT:
          ----                                       ----
            STORAGE =          0.0000             STORAGE =
0.0000
      CONSTANT HEAD =       4633.0190       CONSTANT HEAD =
1.7934E-04
              WELLS =          0.0000               WELLS =
0.0000

          TOTAL OUT =       4633.0190           TOTAL OUT =
1.7934E-04

           IN - OUT =      7.5195E-02            IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   25 IN STRESS PERIOD
11
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.16000E+06  36000.      600.00      25.000
6.84463E-02
         TOTAL TIME 2.58336E+07 4.30560E+05  7176.0      299.00
0.81862
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  26 IN STRESS PERIOD
11
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   11   TIME STEP   26
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
```

```
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 26,
STRESS PERIOD  11
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 26,
STRESS PERIOD  11
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 26,
STRESS PERIOD  11
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 26,
STRESS PERIOD  11
1
              HEAD IN LAYER   1 AT END OF TIME STEP  26 IN STRESS
PERIOD   11
  ------------------------------------------------------------------
-----------

           1            2            3            4            5
6          7            8            9           10
          11           12           13           14

...................................................................
.....................................................
   1  0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
      0.7123       0.7317       0.7509       0.7700
   2  0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
      0.7123       0.7317       0.7509       0.7700
   3  0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
      0.7123       0.7317       0.7509       0.7700
   4  0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
      0.7124       0.7317       0.7509       0.7700
   5  0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
      0.7124       0.7317       0.7509       0.7700
   6  0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
      0.7125       0.7318       0.7510       0.7700
   7  0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
      0.7126       0.7318       0.7510       0.7700
   8  0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
      0.7126       0.7319       0.7510       0.7700
   9  0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
      0.7127       0.7319       0.7510       0.7700
  10  0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
      0.7127       0.7319       0.7510       0.7700
  11  0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
      0.7127       0.7319       0.7510       0.7700
```

```
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   26, STRESS
PERIOD   11
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   26,
STRESS PERIOD  11
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        4648.5889         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =        4648.5889              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =
0.0000
```

```
       CONSTANT HEAD =        4648.5137         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =        4648.5137             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =             0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   26 IN STRESS PERIOD
11
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    ---------------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.24640E+06  37440.      624.00      26.000
7.11841E-02
         TOTAL TIME 2.59200E+07 4.32000E+05  7200.0      300.00
0.82136
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  27 IN STRESS PERIOD
11
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   11   TIME STEP   27
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 27,
STRESS PERIOD  11
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 27,
STRESS PERIOD  11
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 27,
STRESS PERIOD  11
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 27,
STRESS PERIOD  11
1
              HEAD IN LAYER   1 AT END OF TIME STEP  27 IN STRESS
PERIOD   11
  ------------------------------------------------------------------
-----------
```

```
              1            2            3            4            5
6             7            8            9           10
             11           12           13           14

.................................................................
.....................................................
   1   0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100     -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
```

```
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   27, STRESS
PERIOD   11
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   27,
STRESS PERIOD  11
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        4664.0835       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        4664.0835            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        4664.0083       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =        4664.0083           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02            IN - OUT =
0.0000

 PERCENT DISCREPANCY =             0.00     PERCENT DISCREPANCY =
0.00
```

```
         TIME SUMMARY AT END OF TIME STEP   27 IN STRESS PERIOD
11
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    ----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.33280E+06  38880.      648.00      27.000
7.39220E-02
         TOTAL TIME 2.60064E+07 4.33440E+05  7224.0      301.00
0.82409
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  28 IN STRESS PERIOD
11
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   11   TIME STEP   28
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 28,
STRESS PERIOD  11
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 28,
STRESS PERIOD  11
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 28,
STRESS PERIOD  11
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 28,
STRESS PERIOD  11
1
              HEAD IN LAYER   1 AT END OF TIME STEP  28 IN STRESS
PERIOD   11
  ----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

..................................................................
.....................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
```

```
         0.7123       0.7317       0.7509       0.7700
   4     0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
         0.7124       0.7317       0.7509       0.7700
   5     0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
         0.7124       0.7317       0.7509       0.7700
   6     0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
         0.7125       0.7318       0.7510       0.7700
   7     0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
         0.7126       0.7318       0.7510       0.7700
   8     0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
         0.7126       0.7319       0.7510       0.7700
   9     0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
         0.7127       0.7319       0.7510       0.7700
  10     0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
         0.7127       0.7319       0.7510       0.7700
  11     0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
         0.7127       0.7319       0.7510       0.7700
  12     0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
         0.7127       0.7319       0.7510       0.7700
  13     0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
         0.7127       0.7319       0.7510       0.7700
  14     0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
         0.7126       0.7319       0.7510       0.7700
  15     0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
         0.7126       0.7318       0.7510       0.7700
  16     0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
         0.7125       0.7318       0.7510       0.7700
  17     0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
         0.7125       0.7318       0.7509       0.7700
  18     0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
         0.7124       0.7317       0.7509       0.7700
  19     0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
         0.7124       0.7317       0.7509       0.7700
  20     0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
         0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   28, STRESS
PERIOD   11
1
```

```
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   28,
STRESS PERIOD  11
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        4679.5781        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

            TOTAL IN =        4679.5781             TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        4679.5029        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

           TOTAL OUT =        4679.5029            TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02             IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   28 IN STRESS PERIOD
11
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.41920E+06  40320.      672.00      28.000
7.66598E-02
         TOTAL TIME 2.60928E+07 4.34880E+05  7248.0      302.00
0.82683
```

```
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  29 IN STRESS PERIOD
11
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   11   TIME STEP   29
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 29,
STRESS PERIOD  11
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 29,
STRESS PERIOD  11
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 29,
STRESS PERIOD  11
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 29,
STRESS PERIOD  11
1
              HEAD IN LAYER   1 AT END OF TIME STEP  29 IN STRESS
PERIOD   11
  -----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

.................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
```

```
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   29, STRESS
PERIOD   11
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   29,
STRESS PERIOD  11
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        4695.0728         CONSTANT HEAD =
1.7934E-04
```

```
              WELLS =           0.0000               WELLS =
0.0000

           TOTAL IN =        4695.0728            TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
            STORAGE =           0.0000             STORAGE =
0.0000
      CONSTANT HEAD =        4694.9976       CONSTANT HEAD =
1.7934E-04
              WELLS =           0.0000               WELLS =
0.0000

          TOTAL OUT =        4694.9976           TOTAL OUT =
1.7934E-04

           IN - OUT =       7.5195E-02            IN - OUT =
0.0000

 PERCENT DISCREPANCY =            0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   29 IN STRESS PERIOD
11
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.50560E+06  41760.      696.00      29.000
7.93977E-02
         TOTAL TIME 2.61792E+07 4.36320E+05  7272.0      303.00
0.82957
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  30 IN STRESS PERIOD
11
     1 TOTAL ITERATIONS

 MAXIMUM HEAD CHANGE FOR EACH ITERATION (1 INDICATES THE FIRST
INNER ITERATION):

    HEAD CHANGE    HEAD CHANGE    HEAD CHANGE    HEAD CHANGE
HEAD CHANGE
   LAYER,ROW,COL  LAYER,ROW,COL  LAYER,ROW,COL  LAYER,ROW,COL
LAYER,ROW,COL
```

```
 ------------------------------------------------------------------
----------
  1 -0.2365E-15
   (  1,   3,   8)

 MAXIMUM RESIDUAL FOR EACH ITERATION (1 INDICATES THE FIRST INNER
ITERATION):

    RESIDUAL       RESIDUAL       RESIDUAL       RESIDUAL
RESIDUAL
   LAYER,ROW,COL  LAYER,ROW,COL  LAYER,ROW,COL  LAYER,ROW,COL
LAYER,ROW,COL
 ------------------------------------------------------------------
----------
  1  0.1206E-18
   (  1,   2, 11)



 OUTPUT CONTROL FOR STRESS PERIOD   11   TIME STEP   30
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 30,
STRESS PERIOD  11
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 30,
STRESS PERIOD  11
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 30,
STRESS PERIOD  11
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 30,
STRESS PERIOD  11
1
              HEAD IN LAYER   1 AT END OF TIME STEP  30 IN STRESS
PERIOD   11
  -----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

...................................................................
.......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
```

```
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   30, STRESS
PERIOD   11
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   30,
STRESS PERIOD  11
  ------------------------------------------------------------------
--------------
```

```
     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =            0.0000             STORAGE =
0.0000
       CONSTANT HEAD =         4710.5674       CONSTANT HEAD =
1.7934E-04
               WELLS =            0.0000               WELLS =
0.0000

            TOTAL IN =         4710.5674            TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
             STORAGE =            0.0000             STORAGE =
0.0000
       CONSTANT HEAD =         4710.4922       CONSTANT HEAD =
1.7934E-04
               WELLS =            0.0000               WELLS =
0.0000

           TOTAL OUT =         4710.4922           TOTAL OUT =
1.7934E-04

            IN - OUT =        7.5195E-02            IN - OUT =
0.0000

 PERCENT DISCREPANCY =              0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   30 IN STRESS PERIOD
11
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.59200E+06  43200.      720.00      30.000
8.21355E-02
         TOTAL TIME 2.62656E+07 4.37760E+05  7296.0      304.00
0.83231
1
1
                            STRESS PERIOD NO.   12, LENGTH =
2678400.
```

```
                                        ---------------------------------------
---------

                                          NUMBER OF TIME STEPS =    31

                                           MULTIPLIER FOR DELT =     1.000

                                        INITIAL TIME STEP SIZE =   86400.00

 WELL NO.  LAYER   ROW   COL   STRESS RATE
 ---------------------------------------------------
      1      1     11      2     -100.00

      1 WELL

 SOLVING FOR HEAD


     1 CALLS TO PCG ROUTINE FOR TIME STEP   1 IN STRESS PERIOD
12
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   12   TIME STEP    1
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  1,
STRESS PERIOD  12
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  1,
STRESS PERIOD  12
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  1,
STRESS PERIOD  12
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  1,
STRESS PERIOD  12
1
              HEAD IN LAYER   1 AT END OF TIME STEP   1 IN STRESS
PERIOD   12
  -----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

...................................................................
.......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
```

```
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100     -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    1, STRESS
PERIOD   12
1
```

```
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    1,
STRESS PERIOD  12
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        4726.0620       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        4726.0620            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        4725.9868       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =        4725.9868           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02            IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    1 IN STRESS PERIOD
12
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME  86400.      1440.0      24.000     1.00000
2.73785E-03
         TOTAL TIME 2.63520E+07 4.39200E+05  7320.0      305.00
0.83504
```

```
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   2 IN STRESS PERIOD
12
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   12   TIME STEP    2
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  2,
STRESS PERIOD  12
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  2,
STRESS PERIOD  12
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  2,
STRESS PERIOD  12
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  2,
STRESS PERIOD  12
1
              HEAD IN LAYER   1 AT END OF TIME STEP   2 IN STRESS
PERIOD   12
  ----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

..................................................................
.....................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
```

```
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    2, STRESS
PERIOD   12
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    2,
STRESS PERIOD  12
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        4741.5566         CONSTANT HEAD =
1.7934E-04
```

```
                WELLS =           0.0000                  WELLS =
0.0000

             TOTAL IN =        4741.5566               TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
              STORAGE =           0.0000                STORAGE =
0.0000
        CONSTANT HEAD =        4741.4814          CONSTANT HEAD =
1.7934E-04
                WELLS =           0.0000                  WELLS =
0.0000

            TOTAL OUT =        4741.4814              TOTAL OUT =
1.7934E-04

             IN - OUT =       7.5195E-02               IN - OUT =
0.0000

 PERCENT DISCREPANCY =             0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    2 IN STRESS PERIOD
12
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.72800E+05  2880.0      48.000      2.0000
5.47570E-03
         TOTAL TIME 2.64384E+07 4.40640E+05  7344.0      306.00
0.83778
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   3 IN STRESS PERIOD
12
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   12   TIME STEP    3
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  3,
STRESS PERIOD  12
```

```
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  3,
STRESS PERIOD  12
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  3,
STRESS PERIOD  12
 UBDSV4 SAVING "            WELLS" ON UNIT 953 AT TIME STEP  3,
STRESS PERIOD  12
1
              HEAD IN LAYER   1 AT END OF TIME STEP   3 IN STRESS
PERIOD   12
  -----------------------------------------------------------------
-----------

            1            2            3            4            5
6           7            8            9           10
           11           12           13           14

...................................................................
.......................................................
   1   0.5100       0.5310       0.5518       0.5725       0.5930
0.6133      0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133      0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134      0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135      0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137      0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140      0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143      0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148      0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153      0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157      0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30   0.5648       0.5791       0.5970
0.6160      0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157      0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153      0.6349       0.6545       0.6740       0.6934
```

```
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    3, STRESS
PERIOD   12
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    3,
STRESS PERIOD  12
  ----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        4757.0513        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

            TOTAL IN =        4757.0513             TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        4756.9761        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000
```

```
           TOTAL OUT =        4756.9761             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =             0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    3 IN STRESS PERIOD
12
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.59200E+05  4320.0      72.000      3.0000
8.21355E-03
         TOTAL TIME 2.65248E+07 4.42080E+05  7368.0      307.00
0.84052
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   4 IN STRESS PERIOD
12
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   12   TIME STEP    4
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  4,
STRESS PERIOD  12
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  4,
STRESS PERIOD  12
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  4,
STRESS PERIOD  12
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  4,
STRESS PERIOD  12
1
              HEAD IN LAYER   1 AT END OF TIME STEP   4 IN STRESS
PERIOD   12
  ---------------------------------------------------------------
-----------

            1           2           3            4            5
6           7           8           9           10
           11          12          13           14
```

```
.....................................................................
........................................................
   1  0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
      0.7123      0.7317      0.7509      0.7700
   2  0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
      0.7123      0.7317      0.7509      0.7700
   3  0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
      0.7123      0.7317      0.7509      0.7700
   4  0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
      0.7124      0.7317      0.7509      0.7700
   5  0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
      0.7124      0.7317      0.7509      0.7700
   6  0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
      0.7125      0.7318      0.7510      0.7700
   7  0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
      0.7126      0.7318      0.7510      0.7700
   8  0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
      0.7126      0.7319      0.7510      0.7700
   9  0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
      0.7127      0.7319      0.7510      0.7700
  10  0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
      0.7127      0.7319      0.7510      0.7700
  11  0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
      0.7127      0.7319      0.7510      0.7700
  12  0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
      0.7127      0.7319      0.7510      0.7700
  13  0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
      0.7127      0.7319      0.7510      0.7700
  14  0.5100      0.5320      0.5536      0.5745      0.5948
0.6148      0.6346      0.6543      0.6739      0.6933
      0.7126      0.7319      0.7510      0.7700
  15  0.5100      0.5316      0.5529      0.5738      0.5942
0.6144      0.6343      0.6541      0.6737      0.6932
      0.7126      0.7318      0.7510      0.7700
  16  0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6341      0.6539      0.6736      0.6931
      0.7125      0.7318      0.7510      0.7700
  17  0.5100      0.5312      0.5522      0.5730      0.5935
0.6138      0.6339      0.6538      0.6735      0.6930
      0.7125      0.7318      0.7509      0.7700
  18  0.5100      0.5311      0.5521      0.5728      0.5933
0.6136      0.6337      0.6536      0.6734      0.6930
```

```
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6335       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    4, STRESS
PERIOD   12
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    4,
STRESS PERIOD  12
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        4772.5459        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

            TOTAL IN =        4772.5459             TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        4772.4707        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

           TOTAL OUT =        4772.4707            TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02             IN - OUT =
0.0000

 PERCENT DISCREPANCY =          0.00     PERCENT DISCREPANCY =
0.00
```

```
         TIME SUMMARY AT END OF TIME STEP    4 IN STRESS PERIOD
12
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 3.45600E+05  5760.0      96.000      4.0000
1.09514E-02
         TOTAL TIME 2.66112E+07 4.43520E+05  7392.0      308.00
0.84326
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   5 IN STRESS PERIOD
12
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   12   TIME STEP    5
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  5,
STRESS PERIOD  12
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  5,
STRESS PERIOD  12
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  5,
STRESS PERIOD  12
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  5,
STRESS PERIOD  12
1
              HEAD IN LAYER   1 AT END OF TIME STEP   5 IN STRESS
PERIOD   12
  ----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

...................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
```

```
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    5, STRESS
PERIOD   12
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    5,
STRESS PERIOD  12
  ------------------------------------------------------------------
--------------
```

```
     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        4788.0405        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

            TOTAL IN =        4788.0405             TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        4787.9653        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

           TOTAL OUT =        4787.9653            TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02             IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    5 IN STRESS PERIOD
12
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 4.32000E+05  7200.0      120.00      5.0000
1.36893E-02
         TOTAL TIME 2.66976E+07 4.44960E+05  7416.0      309.00
0.84600
1

 SOLVING FOR HEAD
```

```
     1 CALLS TO PCG ROUTINE FOR TIME STEP   6 IN STRESS PERIOD
12
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   12   TIME STEP    6
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  6,
STRESS PERIOD  12
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  6,
STRESS PERIOD  12
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  6,
STRESS PERIOD  12
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  6,
STRESS PERIOD  12
1
              HEAD IN LAYER   1 AT END OF TIME STEP   6 IN STRESS
PERIOD   12
  ----------------------------------------------------------------
-----------

           1            2            3            4            5
6          7            8            9           10
          11           12           13           14

..................................................................
.....................................................
   1   0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
```

```
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    6, STRESS
PERIOD   12
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    6,
STRESS PERIOD  12
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                   IN:
           ---                                   ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        4803.5352       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000
```

```
            TOTAL IN =        4803.5352               TOTAL IN =
1.7934E-04

          OUT:                                      OUT:
          ----                                      ----
             STORAGE =           0.0000                STORAGE =
0.0000
       CONSTANT HEAD =        4803.4600          CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                  WELLS =
0.0000

           TOTAL OUT =        4803.4600              TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02               IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    6 IN STRESS PERIOD
12
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 5.18400E+05  8640.0      144.00      6.0000
1.64271E-02
         TOTAL TIME 2.67840E+07 4.46400E+05  7440.0      310.00
0.84873
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   7 IN STRESS PERIOD
12
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   12   TIME STEP    7
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  7,
STRESS PERIOD  12
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  7,
STRESS PERIOD  12
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  7,
STRESS PERIOD  12
```

```
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  7,
STRESS PERIOD  12
1
              HEAD IN LAYER   1 AT END OF TIME STEP   7 IN STRESS
PERIOD   12
  ----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

..................................................................
..........................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  11   0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
       0.7127      0.7319      0.7510      0.7700
  12   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  13   0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  14   0.5100      0.5320      0.5536      0.5745      0.5948
0.6148      0.6346      0.6543      0.6739      0.6933
       0.7126      0.7319      0.7510      0.7700
```

```
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    7, STRESS
PERIOD   12
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    7,
STRESS PERIOD  12
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =            0.0000             STORAGE =
0.0000
       CONSTANT HEAD =         4819.0298       CONSTANT HEAD =
1.7934E-04
               WELLS =            0.0000               WELLS =
0.0000

            TOTAL IN =         4819.0298            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =            0.0000             STORAGE =
0.0000
       CONSTANT HEAD =         4818.9546       CONSTANT HEAD =
1.7934E-04
               WELLS =            0.0000               WELLS =
0.0000

           TOTAL OUT =         4818.9546           TOTAL OUT =
1.7934E-04
```

```
            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    7 IN STRESS PERIOD
12
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 6.04800E+05  10080.      168.00      7.0000
1.91650E-02
         TOTAL TIME 2.68704E+07 4.47840E+05  7464.0      311.00
0.85147
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   8 IN STRESS PERIOD
12
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   12   TIME STEP    8
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  8,
STRESS PERIOD  12
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  8,
STRESS PERIOD  12
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  8,
STRESS PERIOD  12
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  8,
STRESS PERIOD  12
1
              HEAD IN LAYER   1 AT END OF TIME STEP   8 IN STRESS
PERIOD   12
  ---------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

...................................................................
.......................................................
```

```
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  11   0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
       0.7127      0.7319      0.7510      0.7700
  12   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  13   0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  14   0.5100      0.5320      0.5536      0.5745      0.5948
0.6148      0.6346      0.6543      0.6739      0.6933
       0.7126      0.7319      0.7510      0.7700
  15   0.5100      0.5316      0.5529      0.5738      0.5942
0.6144      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
  16   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6341      0.6539      0.6736      0.6931
       0.7125      0.7318      0.7510      0.7700
  17   0.5100      0.5312      0.5522      0.5730      0.5935
0.6138      0.6339      0.6538      0.6735      0.6930
       0.7125      0.7318      0.7509      0.7700
  18   0.5100      0.5311      0.5521      0.5728      0.5933
0.6136      0.6337      0.6536      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
  19   0.5100      0.5311      0.5520      0.5727      0.5932
0.6135      0.6336      0.6536      0.6733      0.6929
```

```
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    8, STRESS
PERIOD   12
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    8,
STRESS PERIOD  12
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        4834.5244         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =        4834.5244              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        4834.4492         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =        4834.4492             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =             0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    8 IN STRESS PERIOD
12
                    SECONDS      MINUTES        HOURS        DAYS
YEARS
```

```
                    ----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 6.91200E+05  11520.      192.00      8.0000
2.19028E-02
         TOTAL TIME 2.69568E+07 4.49280E+05  7488.0      312.00
0.85421
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   9 IN STRESS PERIOD
12
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   12   TIME STEP    9
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  9,
STRESS PERIOD  12
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  9,
STRESS PERIOD  12
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  9,
STRESS PERIOD  12
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  9,
STRESS PERIOD  12
1
              HEAD IN LAYER   1 AT END OF TIME STEP   9 IN STRESS
PERIOD   12
  ------------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

..................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
```

```
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    9, STRESS
PERIOD   12
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    9,
STRESS PERIOD  12
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
```

```
     ------------------                 ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        4850.0190         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =        4850.0190              TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        4849.9438         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =        4849.9438             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




        TIME SUMMARY AT END OF TIME STEP    9 IN STRESS PERIOD
12
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 7.77600E+05  12960.      216.00      9.0000
2.46407E-02
         TOTAL TIME 2.70432E+07 4.50720E+05  7512.0      313.00
0.85695
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  10 IN STRESS PERIOD
12
     1 TOTAL ITERATIONS
```

```
 OUTPUT CONTROL FOR STRESS PERIOD   12   TIME STEP   10
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 10,
STRESS PERIOD  12
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 10,
STRESS PERIOD  12
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 10,
STRESS PERIOD  12
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 10,
STRESS PERIOD  12
1
              HEAD IN LAYER   1 AT END OF TIME STEP  10 IN STRESS
PERIOD   12
  ------------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

..................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
```

```
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   10, STRESS
PERIOD   12
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   10,
STRESS PERIOD  12
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                   IN:
           ---                                   ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        4865.5137       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        4865.5137            TOTAL IN =
1.7934E-04

          OUT:                                  OUT:
```

```
          ----                                      ----
             STORAGE =             0.0000                 STORAGE =
0.0000
       CONSTANT HEAD =          4865.4385           CONSTANT HEAD =
1.7934E-04
               WELLS =             0.0000                   WELLS =
0.0000

           TOTAL OUT =          4865.4385               TOTAL OUT =
1.7934E-04

            IN - OUT =         7.5195E-02                IN - OUT =
0.0000

 PERCENT DISCREPANCY =               0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   10 IN STRESS PERIOD
12
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 8.64000E+05  14400.      240.00     10.0000
2.73785E-02
         TOTAL TIME 2.71296E+07 4.52160E+05  7536.0      314.00
0.85969
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  11 IN STRESS PERIOD
12
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   12   TIME STEP   11
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 11,
STRESS PERIOD  12
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 11,
STRESS PERIOD  12
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 11,
STRESS PERIOD  12
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 11,
STRESS PERIOD  12
1
```

```
               HEAD IN LAYER   1 AT END OF TIME STEP  11 IN STRESS
PERIOD   12
  ---------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

.................................................................
.....................................................
   1    0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
        0.7123      0.7317      0.7509      0.7700
   2    0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
        0.7123      0.7317      0.7509      0.7700
   3    0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
        0.7123      0.7317      0.7509      0.7700
   4    0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
        0.7124      0.7317      0.7509      0.7700
   5    0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
        0.7124      0.7317      0.7509      0.7700
   6    0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
        0.7125      0.7318      0.7510      0.7700
   7    0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
        0.7126      0.7318      0.7510      0.7700
   8    0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
        0.7126      0.7319      0.7510      0.7700
   9    0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
        0.7127      0.7319      0.7510      0.7700
  10    0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
        0.7127      0.7319      0.7510      0.7700
  11    0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
        0.7127      0.7319      0.7510      0.7700
  12    0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
        0.7127      0.7319      0.7510      0.7700
  13    0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
        0.7127      0.7319      0.7510      0.7700
  14    0.5100      0.5320      0.5536      0.5745      0.5948
0.6148      0.6346      0.6543      0.6739      0.6933
        0.7126      0.7319      0.7510      0.7700
  15    0.5100      0.5316      0.5529      0.5738      0.5942
0.6144      0.6343      0.6541      0.6737      0.6932
        0.7126      0.7318      0.7510      0.7700
```

```
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   11, STRESS
PERIOD   12
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   11,
STRESS PERIOD  12
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        4881.0083       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        4881.0083            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        4880.9331       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =        4880.9331           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02            IN - OUT =
0.0000
```

```
 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   11 IN STRESS PERIOD
12
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 9.50400E+05  15840.      264.00      11.000
3.01164E-02
         TOTAL TIME 2.72160E+07 4.53600E+05  7560.0      315.00
0.86242
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  12 IN STRESS PERIOD
12
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   12   TIME STEP   12
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 12,
STRESS PERIOD  12
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 12,
STRESS PERIOD  12
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 12,
STRESS PERIOD  12
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 12,
STRESS PERIOD  12
1
              HEAD IN LAYER   1 AT END OF TIME STEP  12 IN STRESS
PERIOD   12
  ----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

.................................................................
............................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
```

```
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100     -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
```

```
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   12, STRESS
PERIOD   12
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   12,
STRESS PERIOD  12
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        4896.5029       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        4896.5029            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        4896.4277       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =        4896.4277           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02            IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   12 IN STRESS PERIOD
12
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
```

```
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.03680E+06  17280.      288.00      12.000
3.28542E-02
         TOTAL TIME 2.73024E+07 4.55040E+05  7584.0      316.00
0.86516
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  13 IN STRESS PERIOD
12
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   12   TIME STEP   13
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 13,
STRESS PERIOD  12
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 13,
STRESS PERIOD  12
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 13,
STRESS PERIOD  12
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 13,
STRESS PERIOD  12
1
              HEAD IN LAYER   1 AT END OF TIME STEP  13 IN STRESS
PERIOD   12
  ----------------------------------------------------------------
-----------

           1           2           3           4           5
6           7           8           9          10
          11          12          13          14

..................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
```

```
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   13, STRESS
PERIOD   12
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   13,
STRESS PERIOD  12
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                   IN:
```

```
          ---                                   ---
             STORAGE =          0.0000             STORAGE =
0.0000
       CONSTANT HEAD =       4911.9976       CONSTANT HEAD =
1.7934E-04
               WELLS =          0.0000               WELLS =
0.0000

            TOTAL IN =       4911.9976            TOTAL IN =
1.7934E-04

          OUT:                                  OUT:
          ----                                  ----
             STORAGE =          0.0000             STORAGE =
0.0000
       CONSTANT HEAD =       4911.9224       CONSTANT HEAD =
1.7934E-04
               WELLS =          0.0000               WELLS =
0.0000

           TOTAL OUT =       4911.9224           TOTAL OUT =
1.7934E-04

            IN - OUT =      7.5195E-02            IN - OUT =
0.0000

 PERCENT DISCREPANCY =            0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   13 IN STRESS PERIOD
12
                    SECONDS     MINUTES      HOURS        DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.12320E+06  18720.      312.00      13.000
3.55921E-02
         TOTAL TIME 2.73888E+07 4.56480E+05  7608.0      317.00
0.86790
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  14 IN STRESS PERIOD
12
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   12   TIME STEP   14
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
```

```
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 14,
STRESS PERIOD  12
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 14,
STRESS PERIOD  12
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 14,
STRESS PERIOD  12
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 14,
STRESS PERIOD  12
1
              HEAD IN LAYER   1 AT END OF TIME STEP  14 IN STRESS
PERIOD   12
  -----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

.................................................................
.................................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  11   0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
       0.7127      0.7319      0.7510      0.7700
```

```
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   14, STRESS
PERIOD   12
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   14,
STRESS PERIOD  12
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        4927.4922         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =        4927.4922              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =
0.0000
```

```
       CONSTANT HEAD =        4927.4170         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =        4927.4170             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =            0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   14 IN STRESS PERIOD
12
                    SECONDS     MINUTES      HOURS        DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.20960E+06  20160.      336.00      14.000
3.83299E-02
         TOTAL TIME 2.74752E+07 4.57920E+05  7632.0      318.00
0.87064
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  15 IN STRESS PERIOD
12
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   12   TIME STEP   15
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 15,
STRESS PERIOD  12
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 15,
STRESS PERIOD  12
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 15,
STRESS PERIOD  12
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 15,
STRESS PERIOD  12
1
              HEAD IN LAYER   1 AT END OF TIME STEP  15 IN STRESS
PERIOD   12
  -----------------------------------------------------------------
-----------
```

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	0.5100	0.5310	0.5518	0.5725	0.5930	0.6133	0.6334	0.6534	0.6732	0.6928	0.7123	0.7317	0.7509	0.7700
2	0.5100	0.5310	0.5519	0.5725	0.5930	0.6133	0.6334	0.6534	0.6732	0.6928	0.7123	0.7317	0.7509	0.7700
3	0.5100	0.5311	0.5519	0.5726	0.5931	0.6134	0.6335	0.6535	0.6732	0.6929	0.7123	0.7317	0.7509	0.7700
4	0.5100	0.5311	0.5520	0.5727	0.5933	0.6135	0.6336	0.6536	0.6733	0.6929	0.7124	0.7317	0.7509	0.7700
5	0.5100	0.5312	0.5522	0.5730	0.5935	0.6137	0.6338	0.6537	0.6734	0.6930	0.7124	0.7317	0.7509	0.7700
6	0.5100	0.5314	0.5525	0.5733	0.5938	0.6140	0.6340	0.6539	0.6735	0.6931	0.7125	0.7318	0.7510	0.7700
7	0.5100	0.5316	0.5529	0.5737	0.5942	0.6143	0.6343	0.6541	0.6737	0.6932	0.7126	0.7318	0.7510	0.7700
8	0.5100	0.5320	0.5536	0.5744	0.5948	0.6148	0.6346	0.6543	0.6738	0.6933	0.7126	0.7319	0.7510	0.7700
9	0.5100	0.5326	0.5549	0.5755	0.5955	0.6153	0.6349	0.6545	0.6740	0.6934	0.7127	0.7319	0.7510	0.7700
10	0.5100	0.5335	0.5576	0.5772	0.5964	0.6157	0.6352	0.6546	0.6741	0.6934	0.7127	0.7319	0.7510	0.7700
11	0.5100	-1.0000E+30	0.5648	0.5791	0.5970	0.6160	0.6353	0.6547	0.6741	0.6935	0.7127	0.7319	0.7510	0.7700
12	0.5100	0.5335	0.5576	0.5772	0.5964	0.6157	0.6352	0.6546	0.6741	0.6934	0.7127	0.7319	0.7510	0.7700
13	0.5100	0.5326	0.5549	0.5756	0.5955	0.6153	0.6349	0.6545	0.6740	0.6934	0.7127	0.7319	0.7510	0.7700
14	0.5100	0.5320	0.5536	0.5745	0.5948	0.6148	0.6346	0.6543	0.6739	0.6933	0.7126	0.7319	0.7510	0.7700
15	0.5100	0.5316	0.5529	0.5738	0.5942	0.6144	0.6343	0.6541	0.6737	0.6932	0.7126	0.7318	0.7510	0.7700
16	0.5100	0.5314	0.5525	0.5733	0.5938	0.6140	0.6341	0.6539	0.6736	0.6931	0.7125	0.7318	0.7510	0.7700

```
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   15, STRESS
PERIOD   12
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   15,
STRESS PERIOD  12
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        4942.9868         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =        4942.9868              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        4942.9116         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =        4942.9116             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00
```

```
         TIME SUMMARY AT END OF TIME STEP   15 IN STRESS PERIOD
12
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.29600E+06  21600.      360.00      15.000
4.10678E-02
         TOTAL TIME 2.75616E+07 4.59360E+05  7656.0      319.00
0.87337
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  16 IN STRESS PERIOD
12
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   12   TIME STEP   16
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 16,
STRESS PERIOD  12
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 16,
STRESS PERIOD  12
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 16,
STRESS PERIOD  12
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 16,
STRESS PERIOD  12
1
              HEAD IN LAYER   1 AT END OF TIME STEP  16 IN STRESS
PERIOD   12
  -----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

...................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
```

```
        0.7123       0.7317       0.7509       0.7700
   4    0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
        0.7124       0.7317       0.7509       0.7700
   5    0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
        0.7124       0.7317       0.7509       0.7700
   6    0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
        0.7125       0.7318       0.7510       0.7700
   7    0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
        0.7126       0.7318       0.7510       0.7700
   8    0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
        0.7126       0.7319       0.7510       0.7700
   9    0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
        0.7127       0.7319       0.7510       0.7700
  10    0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
        0.7127       0.7319       0.7510       0.7700
  11    0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
        0.7127       0.7319       0.7510       0.7700
  12    0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
        0.7127       0.7319       0.7510       0.7700
  13    0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
        0.7127       0.7319       0.7510       0.7700
  14    0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
        0.7126       0.7319       0.7510       0.7700
  15    0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
        0.7126       0.7318       0.7510       0.7700
  16    0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
        0.7125       0.7318       0.7510       0.7700
  17    0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
        0.7125       0.7318       0.7509       0.7700
  18    0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
        0.7124       0.7317       0.7509       0.7700
  19    0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
        0.7124       0.7317       0.7509       0.7700
  20    0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
        0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   16, STRESS
PERIOD   12
1
```

```
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   16,
STRESS PERIOD  12
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        4958.4814       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        4958.4814            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        4958.4062       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =        4958.4062           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02            IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   16 IN STRESS PERIOD
12
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.38240E+06  23040.      384.00      16.000
4.38056E-02
         TOTAL TIME 2.76480E+07 4.60800E+05  7680.0      320.00
0.87611
```

```
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  17 IN STRESS PERIOD
12
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   12   TIME STEP   17
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 17,
STRESS PERIOD  12
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 17,
STRESS PERIOD  12
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 17,
STRESS PERIOD  12
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 17,
STRESS PERIOD  12
1
              HEAD IN LAYER   1 AT END OF TIME STEP  17 IN STRESS
PERIOD   12
  ------------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

..................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
```

```
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   17, STRESS
PERIOD   12
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   17,
STRESS PERIOD  12
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        4973.9761         CONSTANT HEAD =
1.7934E-04
```

```
              WELLS =          0.0000              WELLS =
0.0000

           TOTAL IN =       4973.9761           TOTAL IN =
1.7934E-04

          OUT:                                 OUT:
          ----                                 ----
            STORAGE =          0.0000            STORAGE =
0.0000
      CONSTANT HEAD =       4973.9009      CONSTANT HEAD =
1.7934E-04
              WELLS =          0.0000              WELLS =
0.0000

          TOTAL OUT =       4973.9009          TOTAL OUT =
1.7934E-04

           IN - OUT =      7.5195E-02           IN - OUT =
0.0000

 PERCENT DISCREPANCY =          0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   17 IN STRESS PERIOD
12
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.46880E+06  24480.      408.00      17.000
4.65435E-02
         TOTAL TIME 2.77344E+07 4.62240E+05  7704.0      321.00
0.87885
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  18 IN STRESS PERIOD
12
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   12   TIME STEP   18
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 18,
STRESS PERIOD  12
```

```
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 18,
STRESS PERIOD  12
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 18,
STRESS PERIOD  12
 UBDSV4 SAVING "            WELLS" ON UNIT 953 AT TIME STEP 18,
STRESS PERIOD  12
1
              HEAD IN LAYER   1 AT END OF TIME STEP  18 IN STRESS
PERIOD   12
  ----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

..................................................................
......................................................
   1    0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
        0.7123      0.7317      0.7509      0.7700
   2    0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
        0.7123      0.7317      0.7509      0.7700
   3    0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
        0.7123      0.7317      0.7509      0.7700
   4    0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
        0.7124      0.7317      0.7509      0.7700
   5    0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
        0.7124      0.7317      0.7509      0.7700
   6    0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
        0.7125      0.7318      0.7510      0.7700
   7    0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
        0.7126      0.7318      0.7510      0.7700
   8    0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
        0.7126      0.7319      0.7510      0.7700
   9    0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
        0.7127      0.7319      0.7510      0.7700
  10    0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
        0.7127      0.7319      0.7510      0.7700
  11    0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
        0.7127      0.7319      0.7510      0.7700
  12    0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
        0.7127      0.7319      0.7510      0.7700
  13    0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
```

```
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   18, STRESS
PERIOD   12
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   18,
STRESS PERIOD  12
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        4989.4707        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

            TOTAL IN =        4989.4707             TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        4989.3955        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000
```

```
           TOTAL OUT =        4989.3955             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =            0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   18 IN STRESS PERIOD
12
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.55520E+06  25920.      432.00      18.000
4.92813E-02
         TOTAL TIME 2.78208E+07 4.63680E+05  7728.0      322.00
0.88159
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  19 IN STRESS PERIOD
12
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   12   TIME STEP   19
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 19,
STRESS PERIOD  12
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 19,
STRESS PERIOD  12
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 19,
STRESS PERIOD  12
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 19,
STRESS PERIOD  12
1
              HEAD IN LAYER   1 AT END OF TIME STEP  19 IN STRESS
PERIOD   12
  -----------------------------------------------------------------
-----------

            1           2           3            4           5
6           7           8           9           10
           11          12          13           14
```

```
.............................................................
.................................................
   1  0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
      0.7123      0.7317      0.7509      0.7700
   2  0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
      0.7123      0.7317      0.7509      0.7700
   3  0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
      0.7123      0.7317      0.7509      0.7700
   4  0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
      0.7124      0.7317      0.7509      0.7700
   5  0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
      0.7124      0.7317      0.7509      0.7700
   6  0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
      0.7125      0.7318      0.7510      0.7700
   7  0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
      0.7126      0.7318      0.7510      0.7700
   8  0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
      0.7126      0.7319      0.7510      0.7700
   9  0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
      0.7127      0.7319      0.7510      0.7700
  10  0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
      0.7127      0.7319      0.7510      0.7700
  11  0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
      0.7127      0.7319      0.7510      0.7700
  12  0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
      0.7127      0.7319      0.7510      0.7700
  13  0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
      0.7127      0.7319      0.7510      0.7700
  14  0.5100      0.5320      0.5536      0.5745      0.5948
0.6148      0.6346      0.6543      0.6739      0.6933
      0.7126      0.7319      0.7510      0.7700
  15  0.5100      0.5316      0.5529      0.5738      0.5942
0.6144      0.6343      0.6541      0.6737      0.6932
      0.7126      0.7318      0.7510      0.7700
  16  0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6341      0.6539      0.6736      0.6931
      0.7125      0.7318      0.7510      0.7700
  17  0.5100      0.5312      0.5522      0.5730      0.5935
0.6138      0.6339      0.6538      0.6735      0.6930
      0.7125      0.7318      0.7509      0.7700
  18  0.5100      0.5311      0.5521      0.5728      0.5933
0.6136      0.6337      0.6536      0.6734      0.6930
```

```
       0.7124      0.7317      0.7509      0.7700
  19   0.5100      0.5311      0.5520      0.5727      0.5932
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
  20   0.5100      0.5311      0.5519      0.5726      0.5932
0.6135      0.6336      0.6535      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   19, STRESS
PERIOD   12
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   19,
STRESS PERIOD  12
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        5004.9653         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =        5004.9653              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        5004.8901         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =        5004.8901             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00
```

```
         TIME SUMMARY AT END OF TIME STEP   19 IN STRESS PERIOD
12
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.64160E+06  27360.      456.00      19.000
5.20192E-02
         TOTAL TIME 2.79072E+07 4.65120E+05  7752.0      323.00
0.88433
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  20 IN STRESS PERIOD
12
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   12   TIME STEP   20
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 20,
STRESS PERIOD  12
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 20,
STRESS PERIOD  12
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 20,
STRESS PERIOD  12
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 20,
STRESS PERIOD  12
1
              HEAD IN LAYER   1 AT END OF TIME STEP  20 IN STRESS
PERIOD   12
  ---------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

.................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
```

```
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   20, STRESS
PERIOD   12
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   20,
STRESS PERIOD  12
  ------------------------------------------------------------------
--------------
```

```
     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        5020.4600         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =        5020.4600              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        5020.3848         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =        5020.3848             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   20 IN STRESS PERIOD
12
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.72800E+06  28800.      480.00      20.000
5.47570E-02
         TOTAL TIME 2.79936E+07 4.66560E+05  7776.0      324.00
0.88706
1

 SOLVING FOR HEAD
```

```
     1 CALLS TO PCG ROUTINE FOR TIME STEP  21 IN STRESS PERIOD
12
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   12   TIME STEP   21
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 21,
STRESS PERIOD  12
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 21,
STRESS PERIOD  12
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 21,
STRESS PERIOD  12
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 21,
STRESS PERIOD  12
1
              HEAD IN LAYER   1 AT END OF TIME STEP  21 IN STRESS
PERIOD   12
  ----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

..................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
```

```
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   21, STRESS
PERIOD   12
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   21,
STRESS PERIOD  12
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        5035.9546         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000
```

```
             TOTAL IN =        5035.9546               TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
              STORAGE =           0.0000               STORAGE =
0.0000
        CONSTANT HEAD =        5035.8794         CONSTANT HEAD =
1.7934E-04
                WELLS =           0.0000                 WELLS =
0.0000

            TOTAL OUT =        5035.8794             TOTAL OUT =
1.7934E-04

             IN - OUT =       7.5195E-02              IN - OUT =
0.0000

  PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   21 IN STRESS PERIOD
12
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.81440E+06  30240.      504.00      21.000
5.74949E-02
         TOTAL TIME 2.80800E+07 4.68000E+05  7800.0      325.00
0.88980
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  22 IN STRESS PERIOD
12
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   12   TIME STEP   22
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 22,
STRESS PERIOD  12
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 22,
STRESS PERIOD  12
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 22,
STRESS PERIOD  12
```

```
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 22,
STRESS PERIOD  12
1
              HEAD IN LAYER   1 AT END OF TIME STEP  22 IN STRESS
PERIOD   12
  -----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

...................................................................
.....................................................
   1    0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2    0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3    0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4    0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5    0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6    0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7    0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8    0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9    0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10    0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  11    0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
       0.7127      0.7319      0.7510      0.7700
  12    0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  13    0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  14    0.5100      0.5320      0.5536      0.5745      0.5948
0.6148      0.6346      0.6543      0.6739      0.6933
       0.7126      0.7319      0.7510      0.7700
```

```
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   22, STRESS
PERIOD   12
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   22,
STRESS PERIOD  12
  ----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =            0.0000             STORAGE =
0.0000
       CONSTANT HEAD =         5051.4492       CONSTANT HEAD =
1.7934E-04
               WELLS =            0.0000               WELLS =
0.0000

            TOTAL IN =         5051.4492            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =            0.0000             STORAGE =
0.0000
       CONSTANT HEAD =         5051.3740       CONSTANT HEAD =
1.7934E-04
               WELLS =            0.0000               WELLS =
0.0000

           TOTAL OUT =         5051.3740           TOTAL OUT =
1.7934E-04
```

```
            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   22 IN STRESS PERIOD
12
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    ----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.90080E+06  31680.      528.00      22.000
6.02327E-02
         TOTAL TIME 2.81664E+07 4.69440E+05  7824.0      326.00
0.89254
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  23 IN STRESS PERIOD
12
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   12   TIME STEP   23
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 23,
STRESS PERIOD  12
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 23,
STRESS PERIOD  12
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 23,
STRESS PERIOD  12
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 23,
STRESS PERIOD  12
1
              HEAD IN LAYER   1 AT END OF TIME STEP   23 IN STRESS
PERIOD   12
  ----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

..................................................................
......................................................
```

```
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  11   0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
       0.7127      0.7319      0.7510      0.7700
  12   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  13   0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  14   0.5100      0.5320      0.5536      0.5745      0.5948
0.6148      0.6346      0.6543      0.6739      0.6933
       0.7126      0.7319      0.7510      0.7700
  15   0.5100      0.5316      0.5529      0.5738      0.5942
0.6144      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
  16   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6341      0.6539      0.6736      0.6931
       0.7125      0.7318      0.7510      0.7700
  17   0.5100      0.5312      0.5522      0.5730      0.5935
0.6138      0.6339      0.6538      0.6735      0.6930
       0.7125      0.7318      0.7509      0.7700
  18   0.5100      0.5311      0.5521      0.5728      0.5933
0.6136      0.6337      0.6536      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
  19   0.5100      0.5311      0.5520      0.5727      0.5932
0.6135      0.6336      0.6536      0.6733      0.6929
```

```
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   23, STRESS
PERIOD   12
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   23,
STRESS PERIOD  12
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        5066.9438        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

            TOTAL IN =        5066.9438             TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        5066.8687        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

           TOTAL OUT =        5066.8687            TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02             IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00





         TIME SUMMARY AT END OF TIME STEP   23 IN STRESS PERIOD
12
                    SECONDS      MINUTES       HOURS        DAYS
YEARS
```

```
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.98720E+06  33120.      552.00      23.000
6.29706E-02
         TOTAL TIME 2.82528E+07 4.70880E+05  7848.0      327.00
0.89528
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  24 IN STRESS PERIOD
12
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   12   TIME STEP   24
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 24,
STRESS PERIOD  12
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 24,
STRESS PERIOD  12
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 24,
STRESS PERIOD  12
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 24,
STRESS PERIOD  12
1
              HEAD IN LAYER   1 AT END OF TIME STEP  24 IN STRESS
PERIOD   12
  -----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

...................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
```

```
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   24, STRESS
PERIOD   12
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   24,
STRESS PERIOD  12
  ----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
```

```
     ------------------                  ------------------------

          IN:                                      IN:
          ---                                      ---
            STORAGE =          0.0000              STORAGE =
0.0000
      CONSTANT HEAD =       5082.4385        CONSTANT HEAD =
1.7934E-04
              WELLS =          0.0000                WELLS =
0.0000

           TOTAL IN =       5082.4385             TOTAL IN =
1.7934E-04

         OUT:                                     OUT:
         ----                                     ----
            STORAGE =          0.0000              STORAGE =
0.0000
      CONSTANT HEAD =       5082.3633        CONSTANT HEAD =
1.7934E-04
              WELLS =          0.0000                WELLS =
0.0000

          TOTAL OUT =       5082.3633            TOTAL OUT =
1.7934E-04

           IN - OUT =      7.5195E-02             IN - OUT =
0.0000

 PERCENT DISCREPANCY =          0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   24 IN STRESS PERIOD
12
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.07360E+06  34560.      576.00      24.000
6.57084E-02
         TOTAL TIME 2.83392E+07 4.72320E+05  7872.0      328.00
0.89802
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  25 IN STRESS PERIOD
12
     1 TOTAL ITERATIONS
```

```
 OUTPUT CONTROL FOR STRESS PERIOD   12   TIME STEP   25
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 25,
STRESS PERIOD  12
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 25,
STRESS PERIOD  12
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 25,
STRESS PERIOD  12
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 25,
STRESS PERIOD  12
1
              HEAD IN LAYER   1 AT END OF TIME STEP  25 IN STRESS
PERIOD   12
  ----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

..................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
```

```
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   25, STRESS
PERIOD   12
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   25,
STRESS PERIOD  12
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                   IN:
           ---                                   ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        5097.9331       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        5097.9331            TOTAL IN =
1.7934E-04

          OUT:                                  OUT:
```

```
          ----                                        ----
                 STORAGE =           0.0000                 STORAGE =
0.0000
           CONSTANT HEAD =        5097.8579           CONSTANT HEAD =
1.7934E-04
                   WELLS =           0.0000                   WELLS =
0.0000

               TOTAL OUT =        5097.8579               TOTAL OUT =
1.7934E-04

                IN - OUT =       7.5195E-02                IN - OUT =
0.0000

     PERCENT DISCREPANCY =             0.00     PERCENT DISCREPANCY =
0.00




          TIME SUMMARY AT END OF TIME STEP   25 IN STRESS PERIOD
12
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.16000E+06  36000.      600.00      25.000
6.84463E-02
         TOTAL TIME 2.84256E+07 4.73760E+05  7896.0      329.00
0.90075
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  26 IN STRESS PERIOD
12
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   12   TIME STEP   26
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 26,
STRESS PERIOD  12
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 26,
STRESS PERIOD  12
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 26,
STRESS PERIOD  12
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 26,
STRESS PERIOD  12
1
```

```
               HEAD IN LAYER   1 AT END OF TIME STEP  26 IN STRESS
PERIOD   12
  -----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

...................................................................
.....................................................
   1    0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
        0.7123      0.7317      0.7509      0.7700
   2    0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
        0.7123      0.7317      0.7509      0.7700
   3    0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
        0.7123      0.7317      0.7509      0.7700
   4    0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
        0.7124      0.7317      0.7509      0.7700
   5    0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
        0.7124      0.7317      0.7509      0.7700
   6    0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
        0.7125      0.7318      0.7510      0.7700
   7    0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
        0.7126      0.7318      0.7510      0.7700
   8    0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
        0.7126      0.7319      0.7510      0.7700
   9    0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
        0.7127      0.7319      0.7510      0.7700
  10    0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
        0.7127      0.7319      0.7510      0.7700
  11    0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
        0.7127      0.7319      0.7510      0.7700
  12    0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
        0.7127      0.7319      0.7510      0.7700
  13    0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
        0.7127      0.7319      0.7510      0.7700
  14    0.5100      0.5320      0.5536      0.5745      0.5948
0.6148      0.6346      0.6543      0.6739      0.6933
        0.7126      0.7319      0.7510      0.7700
  15    0.5100      0.5316      0.5529      0.5738      0.5942
0.6144      0.6343      0.6541      0.6737      0.6932
        0.7126      0.7318      0.7510      0.7700
```

```
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   26, STRESS
PERIOD   12
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   26,
STRESS PERIOD  12
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        5113.4277       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        5113.4277            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        5113.3525       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =        5113.3525           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02            IN - OUT =
0.0000
```

```
 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   26 IN STRESS PERIOD
12
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.24640E+06  37440.      624.00      26.000
7.11841E-02
         TOTAL TIME 2.85120E+07 4.75200E+05  7920.0      330.00
0.90349
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  27 IN STRESS PERIOD
12
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   12   TIME STEP   27
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 27,
STRESS PERIOD  12
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 27,
STRESS PERIOD  12
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 27,
STRESS PERIOD  12
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 27,
STRESS PERIOD  12
1
              HEAD IN LAYER   1 AT END OF TIME STEP  27 IN STRESS
PERIOD   12
  -----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

...................................................................
.....................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
```

```
   2  0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
      0.7123       0.7317       0.7509       0.7700
   3  0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
      0.7123       0.7317       0.7509       0.7700
   4  0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
      0.7124       0.7317       0.7509       0.7700
   5  0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
      0.7124       0.7317       0.7509       0.7700
   6  0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
      0.7125       0.7318       0.7510       0.7700
   7  0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
      0.7126       0.7318       0.7510       0.7700
   8  0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
      0.7126       0.7319       0.7510       0.7700
   9  0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
      0.7127       0.7319       0.7510       0.7700
  10  0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
      0.7127       0.7319       0.7510       0.7700
  11  0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
      0.7127       0.7319       0.7510       0.7700
  12  0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
      0.7127       0.7319       0.7510       0.7700
  13  0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
      0.7127       0.7319       0.7510       0.7700
  14  0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
      0.7126       0.7319       0.7510       0.7700
  15  0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
      0.7126       0.7318       0.7510       0.7700
  16  0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
      0.7125       0.7318       0.7510       0.7700
  17  0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
      0.7125       0.7318       0.7509       0.7700
  18  0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
      0.7124       0.7317       0.7509       0.7700
  19  0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
      0.7124       0.7317       0.7509       0.7700
  20  0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
```

```
       0.7124      0.7317      0.7509      0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   27, STRESS
PERIOD   12
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   27,
STRESS PERIOD  12
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        5128.9224         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =        5128.9224              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        5128.8472         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =        5128.8472             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   27 IN STRESS PERIOD
12
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
```

```
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.33280E+06  38880.      648.00      27.000
7.39220E-02
         TOTAL TIME 2.85984E+07 4.76640E+05  7944.0      331.00
0.90623
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  28 IN STRESS PERIOD
12
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   12   TIME STEP   28
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 28,
STRESS PERIOD  12
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 28,
STRESS PERIOD  12
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 28,
STRESS PERIOD  12
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 28,
STRESS PERIOD  12
1
              HEAD IN LAYER   1 AT END OF TIME STEP  28 IN STRESS
PERIOD   12
  ----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

..................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
```

```
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   28, STRESS
PERIOD   12
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   28,
STRESS PERIOD  12
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
```

```
          ---                                          ---
             STORAGE =          0.0000                    STORAGE =
0.0000
       CONSTANT HEAD =       5144.4170              CONSTANT HEAD =
1.7934E-04
               WELLS =          0.0000                      WELLS =
0.0000

            TOTAL IN =       5144.4170                   TOTAL IN =
1.7934E-04

          OUT:                                         OUT:
          ----                                         ----
             STORAGE =          0.0000                    STORAGE =
0.0000
       CONSTANT HEAD =       5144.3418              CONSTANT HEAD =
1.7934E-04
               WELLS =          0.0000                      WELLS =
0.0000

           TOTAL OUT =       5144.3418                  TOTAL OUT =
1.7934E-04

            IN - OUT =      7.5195E-02                   IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   28 IN STRESS PERIOD
12
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.41920E+06  40320.      672.00      28.000
7.66598E-02
         TOTAL TIME 2.86848E+07 4.78080E+05  7968.0      332.00
0.90897
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  29 IN STRESS PERIOD
12
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   12   TIME STEP   29
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
```

```
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 29,
STRESS PERIOD  12
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 29,
STRESS PERIOD  12
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 29,
STRESS PERIOD  12
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 29,
STRESS PERIOD  12
1
              HEAD IN LAYER   1 AT END OF TIME STEP  29 IN STRESS
PERIOD   12
  -----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

.................................................................
.....................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  11   0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
       0.7127      0.7319      0.7510      0.7700
```

```
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   29, STRESS
PERIOD   12
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   29,
STRESS PERIOD  12
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        5159.9116         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =        5159.9116              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =
0.0000
```

```
       CONSTANT HEAD =        5159.8364         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =        5159.8364             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   29 IN STRESS PERIOD
12
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.50560E+06  41760.      696.00      29.000
7.93977E-02
         TOTAL TIME 2.87712E+07 4.79520E+05  7992.0      333.00
0.91170
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  30 IN STRESS PERIOD
12
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   12   TIME STEP   30
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 30,
STRESS PERIOD  12
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 30,
STRESS PERIOD  12
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 30,
STRESS PERIOD  12
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 30,
STRESS PERIOD  12
1
              HEAD IN LAYER   1 AT END OF TIME STEP   30 IN STRESS
PERIOD   12
  ------------------------------------------------------------------
-----------
```

```
             1            2            3            4            5
6            7            8            9           10
            11           12           13           14

.....................................................................
.......................................................
   1    0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
        0.7123       0.7317       0.7509       0.7700
   2    0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
        0.7123       0.7317       0.7509       0.7700
   3    0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
        0.7123       0.7317       0.7509       0.7700
   4    0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
        0.7124       0.7317       0.7509       0.7700
   5    0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
        0.7124       0.7317       0.7509       0.7700
   6    0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
        0.7125       0.7318       0.7510       0.7700
   7    0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
        0.7126       0.7318       0.7510       0.7700
   8    0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
        0.7126       0.7319       0.7510       0.7700
   9    0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
        0.7127       0.7319       0.7510       0.7700
  10    0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
        0.7127       0.7319       0.7510       0.7700
  11    0.5100      -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
        0.7127       0.7319       0.7510       0.7700
  12    0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
        0.7127       0.7319       0.7510       0.7700
  13    0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
        0.7127       0.7319       0.7510       0.7700
  14    0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
        0.7126       0.7319       0.7510       0.7700
  15    0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
        0.7126       0.7318       0.7510       0.7700
  16    0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
        0.7125       0.7318       0.7510       0.7700
```

```
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   30, STRESS
PERIOD   12
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   30,
STRESS PERIOD  12
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        5175.4062        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

            TOTAL IN =        5175.4062             TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        5175.3311        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

           TOTAL OUT =        5175.3311            TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02             IN - OUT =
0.0000

 PERCENT DISCREPANCY =             0.00     PERCENT DISCREPANCY =
0.00
```

```
        TIME SUMMARY AT END OF TIME STEP   30 IN STRESS PERIOD
12
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.59200E+06  43200.      720.00      30.000
8.21355E-02
        TOTAL TIME 2.88576E+07 4.80960E+05  8016.0      334.00
0.91444
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  31 IN STRESS PERIOD
12
     1 TOTAL ITERATIONS

 MAXIMUM HEAD CHANGE FOR EACH ITERATION (1 INDICATES THE FIRST
INNER ITERATION):

    HEAD CHANGE    HEAD CHANGE    HEAD CHANGE    HEAD CHANGE
HEAD CHANGE
   LAYER,ROW,COL  LAYER,ROW,COL  LAYER,ROW,COL  LAYER,ROW,COL
LAYER,ROW,COL
 -------------------------------------------------------------------
----------
  1  0.2530E-15
   (  1,   4,   9)

 MAXIMUM RESIDUAL FOR EACH ITERATION (1 INDICATES THE FIRST INNER
ITERATION):

    RESIDUAL       RESIDUAL       RESIDUAL       RESIDUAL
RESIDUAL
   LAYER,ROW,COL  LAYER,ROW,COL  LAYER,ROW,COL  LAYER,ROW,COL
LAYER,ROW,COL
 -------------------------------------------------------------------
----------
  1  0.1104E-18
   (  1,   6,   9)



 OUTPUT CONTROL FOR STRESS PERIOD   12   TIME STEP   31
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 31,
STRESS PERIOD  12
```

```
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 31,
STRESS PERIOD  12
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 31,
STRESS PERIOD  12
 UBDSV4 SAVING "            WELLS" ON UNIT 953 AT TIME STEP 31,
STRESS PERIOD  12
1
              HEAD IN LAYER   1 AT END OF TIME STEP  31 IN STRESS
PERIOD   12
  -------------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

.....................................................................
.......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  11   0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
       0.7127      0.7319      0.7510      0.7700
  12   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  13   0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
```

```
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   31, STRESS
PERIOD   12
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   31,
STRESS PERIOD  12
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000                  STORAGE =
0.0000
       CONSTANT HEAD =        5190.9009            CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                    WELLS =
0.0000

            TOTAL IN =        5190.9009                 TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000                  STORAGE =
0.0000
       CONSTANT HEAD =        5190.8257            CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                    WELLS =
0.0000
```

```
           TOTAL OUT =        5190.8257             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =             0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   31 IN STRESS PERIOD
12
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.67840E+06  44640.      744.00      31.000
8.48734E-02
         TOTAL TIME 2.89440E+07 4.82400E+05  8040.0      335.00
0.91718
1
1
                            STRESS PERIOD NO.   13, LENGTH =
2678400.
                            ---------------------------------------
---------

                              NUMBER OF TIME STEPS =    31

                               MULTIPLIER FOR DELT =     1.000

                            INITIAL TIME STEP SIZE =   86400.00

 WELL NO.  LAYER   ROW   COL   STRESS RATE
 ---------------------------------------------------
      1      1     11      2     -100.00

      1 WELL

 SOLVING FOR HEAD


     1 CALLS TO PCG ROUTINE FOR TIME STEP   1 IN STRESS PERIOD
13
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   13   TIME STEP    1
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
```

```
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  1,
STRESS PERIOD  13
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  1,
STRESS PERIOD  13
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  1,
STRESS PERIOD  13
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  1,
STRESS PERIOD  13
1
              HEAD IN LAYER   1 AT END OF TIME STEP   1 IN STRESS
PERIOD   13
  ---------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

.................................................................
.....................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  11   0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
       0.7127      0.7319      0.7510      0.7700
  12   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
```

```
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    1, STRESS
PERIOD   13
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    1,
STRESS PERIOD  13
  -------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        5206.3955       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        5206.3955            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        5206.3203       CONSTANT HEAD =
1.7934E-04
```

```
               WELLS =          0.0000                    WELLS =
0.0000

           TOTAL OUT =       5206.3203                TOTAL OUT =
1.7934E-04

            IN - OUT =      7.5195E-02                 IN - OUT =
0.0000

 PERCENT DISCREPANCY =            0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    1 IN STRESS PERIOD
13
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME  86400.      1440.0      24.000     1.00000
2.73785E-03
         TOTAL TIME 2.90304E+07 4.83840E+05  8064.0      336.00
0.91992
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   2 IN STRESS PERIOD
13
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   13   TIME STEP    2
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  2,
STRESS PERIOD  13
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  2,
STRESS PERIOD  13
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  2,
STRESS PERIOD  13
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  2,
STRESS PERIOD  13
1
              HEAD IN LAYER   1 AT END OF TIME STEP   2 IN STRESS
PERIOD   13
  ----------------------------------------------------------------
-----------
```

```
             1           2           3           4           5
6            7           8           9          10
            11          12          13          14

.................................................................
...........................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  11   0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
       0.7127      0.7319      0.7510      0.7700
  12   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  13   0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  14   0.5100      0.5320      0.5536      0.5745      0.5948
0.6148      0.6346      0.6543      0.6739      0.6933
       0.7126      0.7319      0.7510      0.7700
  15   0.5100      0.5316      0.5529      0.5738      0.5942
0.6144      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
  16   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6341      0.6539      0.6736      0.6931
       0.7125      0.7318      0.7510      0.7700
  17   0.5100      0.5312      0.5522      0.5730      0.5935
0.6138      0.6339      0.6538      0.6735      0.6930
```

```
       0.7125      0.7318      0.7509      0.7700
  18   0.5100      0.5311      0.5521      0.5728      0.5933
0.6136      0.6337      0.6536      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
  19   0.5100      0.5311      0.5520      0.5727      0.5932
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
  20   0.5100      0.5311      0.5519      0.5726      0.5932
0.6135      0.6336      0.6535      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    2, STRESS
PERIOD   13
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    2,
STRESS PERIOD  13
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        5221.8901         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =        5221.8901              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        5221.8149         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =        5221.8149             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00
```

```
         TIME SUMMARY AT END OF TIME STEP    2 IN STRESS PERIOD
13
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.72800E+05  2880.0      48.000      2.0000
5.47570E-03
         TOTAL TIME 2.91168E+07 4.85280E+05  8088.0      337.00
0.92266
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   3 IN STRESS PERIOD
13
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   13   TIME STEP    3
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  3,
STRESS PERIOD  13
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  3,
STRESS PERIOD  13
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  3,
STRESS PERIOD  13
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  3,
STRESS PERIOD  13
1
              HEAD IN LAYER   1 AT END OF TIME STEP   3 IN STRESS
PERIOD   13
  ----------------------------------------------------------------
-----------


           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

..................................................................
..................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
```

```
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100     -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    3, STRESS
PERIOD   13
1
```

```
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    3,
STRESS PERIOD  13
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        5237.3848         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =        5237.3848              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        5237.3096         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =        5237.3096             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    3 IN STRESS PERIOD
13
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    ---------------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.59200E+05  4320.0      72.000      3.0000
8.21355E-03
         TOTAL TIME 2.92032E+07 4.86720E+05  8112.0      338.00
0.92539
```

```
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   4 IN STRESS PERIOD
13
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   13   TIME STEP    4
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  4,
STRESS PERIOD  13
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  4,
STRESS PERIOD  13
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  4,
STRESS PERIOD  13
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  4,
STRESS PERIOD  13
1
              HEAD IN LAYER   1 AT END OF TIME STEP   4 IN STRESS
PERIOD   13
  ----------------------------------------------------------------
-----------

           1           2           3           4           5
6           7           8           9          10
          11          12          13          14

..................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
```

```
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    4, STRESS
PERIOD   13
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    4,
STRESS PERIOD  13
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        5252.8794        CONSTANT HEAD =
1.7934E-04
```

```
               WELLS =           0.0000                  WELLS =
0.0000

            TOTAL IN =        5252.8794               TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000                STORAGE =
0.0000
       CONSTANT HEAD =        5252.8042          CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                  WELLS =
0.0000

           TOTAL OUT =        5252.8042              TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02               IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    4 IN STRESS PERIOD
13
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 3.45600E+05  5760.0      96.000      4.0000
1.09514E-02
         TOTAL TIME 2.92896E+07 4.88160E+05  8136.0      339.00
0.92813
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   5 IN STRESS PERIOD
13
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   13   TIME STEP    5
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  5,
STRESS PERIOD  13
```

```
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  5,
STRESS PERIOD  13
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  5,
STRESS PERIOD  13
 UBDSV4 SAVING "            WELLS" ON UNIT 953 AT TIME STEP  5,
STRESS PERIOD  13
1
              HEAD IN LAYER   1 AT END OF TIME STEP   5 IN STRESS
PERIOD   13
  ------------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

....................................................................
.......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  11   0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
       0.7127      0.7319      0.7510      0.7700
  12   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  13   0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
```

```
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    5, STRESS
PERIOD   13
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    5,
STRESS PERIOD  13
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000                 STORAGE =
0.0000
       CONSTANT HEAD =        5268.3740           CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                   WELLS =
0.0000

            TOTAL IN =        5268.3740                TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000                 STORAGE =
0.0000
       CONSTANT HEAD =        5268.2988           CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                   WELLS =
0.0000
```

```
           TOTAL OUT =        5268.2988             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    5 IN STRESS PERIOD
13
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 4.32000E+05  7200.0      120.00      5.0000
1.36893E-02
         TOTAL TIME 2.93760E+07 4.89600E+05  8160.0      340.00
0.93087
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   6 IN STRESS PERIOD
13
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   13   TIME STEP    6
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  6,
STRESS PERIOD  13
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  6,
STRESS PERIOD  13
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  6,
STRESS PERIOD  13
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  6,
STRESS PERIOD  13
1
              HEAD IN LAYER   1 AT END OF TIME STEP   6 IN STRESS
PERIOD   13
  -----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14
```

```
........................................................................
...........................................................
   1  0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
      0.7123       0.7317       0.7509       0.7700
   2  0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
      0.7123       0.7317       0.7509       0.7700
   3  0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
      0.7123       0.7317       0.7509       0.7700
   4  0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
      0.7124       0.7317       0.7509       0.7700
   5  0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
      0.7124       0.7317       0.7509       0.7700
   6  0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
      0.7125       0.7318       0.7510       0.7700
   7  0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
      0.7126       0.7318       0.7510       0.7700
   8  0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
      0.7126       0.7319       0.7510       0.7700
   9  0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
      0.7127       0.7319       0.7510       0.7700
  10  0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
      0.7127       0.7319       0.7510       0.7700
  11  0.5100     -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
      0.7127       0.7319       0.7510       0.7700
  12  0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
      0.7127       0.7319       0.7510       0.7700
  13  0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
      0.7127       0.7319       0.7510       0.7700
  14  0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
      0.7126       0.7319       0.7510       0.7700
  15  0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
      0.7126       0.7318       0.7510       0.7700
  16  0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
      0.7125       0.7318       0.7510       0.7700
  17  0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
      0.7125       0.7318       0.7509       0.7700
  18  0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
```

```
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    6, STRESS
PERIOD   13
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    6,
STRESS PERIOD  13
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        5283.8687         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =        5283.8687              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        5283.7935         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =        5283.7935             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00
```

```
         TIME SUMMARY AT END OF TIME STEP    6 IN STRESS PERIOD
13
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 5.18400E+05  8640.0      144.00      6.0000
1.64271E-02
         TOTAL TIME 2.94624E+07 4.91040E+05  8184.0      341.00
0.93361
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP   7 IN STRESS PERIOD
13
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   13   TIME STEP    7
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  7,
STRESS PERIOD  13
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  7,
STRESS PERIOD  13
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  7,
STRESS PERIOD  13
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  7,
STRESS PERIOD  13
1
              HEAD IN LAYER   1 AT END OF TIME STEP   7 IN STRESS
PERIOD   13
  ---------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

..................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
```

```
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    7, STRESS
PERIOD   13
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    7,
STRESS PERIOD  13
  ------------------------------------------------------------------
--------------
```

```
     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                   IN:
           ---                                   ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        5299.3633        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

            TOTAL IN =        5299.3633             TOTAL IN =
1.7934E-04

          OUT:                                  OUT:
          ----                                  ----
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        5299.2881        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

           TOTAL OUT =        5299.2881            TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02             IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    7 IN STRESS PERIOD
13
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 6.04800E+05  10080.      168.00      7.0000
1.91650E-02
         TOTAL TIME 2.95488E+07 4.92480E+05  8208.0      342.00
0.93634
1

 SOLVING FOR HEAD
```

```
     1 CALLS TO PCG ROUTINE FOR TIME STEP   8 IN STRESS PERIOD
13
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   13   TIME STEP    8
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  8,
STRESS PERIOD  13
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  8,
STRESS PERIOD  13
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  8,
STRESS PERIOD  13
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  8,
STRESS PERIOD  13
1
              HEAD IN LAYER   1 AT END OF TIME STEP   8 IN STRESS
PERIOD   13
  ------------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

..................................................................
......................................................
   1    0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
        0.7123      0.7317      0.7509      0.7700
   2    0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
        0.7123      0.7317      0.7509      0.7700
   3    0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
        0.7123      0.7317      0.7509      0.7700
   4    0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
        0.7124      0.7317      0.7509      0.7700
   5    0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
        0.7124      0.7317      0.7509      0.7700
   6    0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
        0.7125      0.7318      0.7510      0.7700
   7    0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
        0.7126      0.7318      0.7510      0.7700
   8    0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
        0.7126      0.7319      0.7510      0.7700
   9    0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
        0.7127      0.7319      0.7510      0.7700
```

```
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    8, STRESS
PERIOD   13
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    8,
STRESS PERIOD  13
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                   IN:
           ---                                   ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        5314.8579       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000
```

```
            TOTAL IN =        5314.8579             TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        5314.7827        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

           TOTAL OUT =        5314.7827            TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02             IN - OUT =
0.0000

 PERCENT DISCREPANCY =             0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    8 IN STRESS PERIOD
13
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 6.91200E+05  11520.      192.00      8.0000
2.19028E-02
         TOTAL TIME 2.96352E+07 4.93920E+05  8232.0      343.00
0.93908
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP    9 IN STRESS PERIOD
13
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   13   TIME STEP    9
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  9,
STRESS PERIOD  13
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  9,
STRESS PERIOD  13
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  9,
STRESS PERIOD  13
```

```
 UBDSV4 SAVING "          WELLS" ON UNIT 953 AT TIME STEP  9,
STRESS PERIOD  13
1
              HEAD IN LAYER   1 AT END OF TIME STEP   9 IN STRESS
PERIOD   13
  ----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

..................................................................
...................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  11   0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
       0.7127      0.7319      0.7510      0.7700
  12   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  13   0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  14   0.5100      0.5320      0.5536      0.5745      0.5948
0.6148      0.6346      0.6543      0.6739      0.6933
       0.7126      0.7319      0.7510      0.7700
```

```
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    9, STRESS
PERIOD   13
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    9,
STRESS PERIOD  13
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000                 STORAGE =
0.0000
       CONSTANT HEAD =        5330.3525           CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                   WELLS =
0.0000

            TOTAL IN =        5330.3525                TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000                 STORAGE =
0.0000
       CONSTANT HEAD =        5330.2773           CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                   WELLS =
0.0000

           TOTAL OUT =        5330.2773               TOTAL OUT =
1.7934E-04
```

```
            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    9 IN STRESS PERIOD
13
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 7.77600E+05  12960.      216.00      9.0000
2.46407E-02
         TOTAL TIME 2.97216E+07 4.95360E+05  8256.0      344.00
0.94182
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  10 IN STRESS PERIOD
13
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   13   TIME STEP   10
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 10,
STRESS PERIOD  13
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 10,
STRESS PERIOD  13
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 10,
STRESS PERIOD  13
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 10,
STRESS PERIOD  13
1
              HEAD IN LAYER   1 AT END OF TIME STEP  10 IN STRESS
PERIOD   13
  -----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

...................................................................
.......................................................
```

```
   1   0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100     -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
```

```
       0.7124      0.7317      0.7509      0.7700
  20   0.5100      0.5311      0.5519      0.5726      0.5932
0.6135      0.6336      0.6535      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   10, STRESS
PERIOD   13
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   10,
STRESS PERIOD  13
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        5345.8472         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =        5345.8472              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        5345.7720         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =        5345.7720             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   10 IN STRESS PERIOD
13
                    SECONDS      MINUTES       HOURS        DAYS
YEARS
```

```
                        ----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 8.64000E+05  14400.      240.00     10.0000
2.73785E-02
         TOTAL TIME 2.98080E+07 4.96800E+05  8280.0      345.00
0.94456
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  11 IN STRESS PERIOD
13
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   13   TIME STEP   11
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 11,
STRESS PERIOD  13
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 11,
STRESS PERIOD  13
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 11,
STRESS PERIOD  13
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 11,
STRESS PERIOD  13
1
              HEAD IN LAYER   1 AT END OF TIME STEP  11 IN STRESS
PERIOD   13
  ------------------------------------------------------------------
-----------

          1           2           3           4           5
6         7           8           9          10
         11          12          13          14

....................................................................
.......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133     0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133     0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134     0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135     0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137     0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
```

```
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   11, STRESS
PERIOD   13
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   11,
STRESS PERIOD  13
  ----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
```

```
    ------------------                  ------------------------

          IN:                                      IN:
          ---                                      ---
            STORAGE =          0.0000               STORAGE =
0.0000
      CONSTANT HEAD =       5361.3418         CONSTANT HEAD =
1.7934E-04
              WELLS =          0.0000                 WELLS =
0.0000

           TOTAL IN =       5361.3418              TOTAL IN =
1.7934E-04

         OUT:                                     OUT:
         ----                                     ----
            STORAGE =          0.0000               STORAGE =
0.0000
      CONSTANT HEAD =       5361.2666         CONSTANT HEAD =
1.7934E-04
              WELLS =          0.0000                 WELLS =
0.0000

          TOTAL OUT =       5361.2666             TOTAL OUT =
1.7934E-04

           IN - OUT =      7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =          0.00     PERCENT DISCREPANCY =
0.00




        TIME SUMMARY AT END OF TIME STEP   11 IN STRESS PERIOD
13
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 9.50400E+05  15840.      264.00      11.000
3.01164E-02
         TOTAL TIME 2.98944E+07 4.98240E+05  8304.0      346.00
0.94730
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  12 IN STRESS PERIOD
13
     1 TOTAL ITERATIONS
```

```
 OUTPUT CONTROL FOR STRESS PERIOD   13   TIME STEP   12
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 12,
STRESS PERIOD  13
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 12,
STRESS PERIOD  13
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 12,
STRESS PERIOD  13
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 12,
STRESS PERIOD  13
1
              HEAD IN LAYER   1 AT END OF TIME STEP  12 IN STRESS
PERIOD   13
  ------------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

....................................................................
.......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
```

```
  11   0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
       0.7127      0.7319      0.7510      0.7700
  12   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  13   0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  14   0.5100      0.5320      0.5536      0.5745      0.5948
0.6148      0.6346      0.6543      0.6739      0.6933
       0.7126      0.7319      0.7510      0.7700
  15   0.5100      0.5316      0.5529      0.5738      0.5942
0.6144      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
  16   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6341      0.6539      0.6736      0.6931
       0.7125      0.7318      0.7510      0.7700
  17   0.5100      0.5312      0.5522      0.5730      0.5935
0.6138      0.6339      0.6538      0.6735      0.6930
       0.7125      0.7318      0.7509      0.7700
  18   0.5100      0.5311      0.5521      0.5728      0.5933
0.6136      0.6337      0.6536      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
  19   0.5100      0.5311      0.5520      0.5727      0.5932
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
  20   0.5100      0.5311      0.5519      0.5726      0.5932
0.6135      0.6336      0.6535      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   12, STRESS
PERIOD   13
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   12,
STRESS PERIOD  13
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        5376.8364        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

            TOTAL IN =        5376.8364             TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
```

```
          ----                                       ----
             STORAGE =            0.0000                STORAGE =
0.0000
       CONSTANT HEAD =         5376.7612          CONSTANT HEAD =
1.7934E-04
               WELLS =            0.0000                  WELLS =
0.0000

           TOTAL OUT =         5376.7612              TOTAL OUT =
1.7934E-04

            IN - OUT =        7.5195E-02               IN - OUT =
0.0000

 PERCENT DISCREPANCY =              0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   12 IN STRESS PERIOD
13
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.03680E+06  17280.      288.00      12.000
3.28542E-02
         TOTAL TIME 2.99808E+07 4.99680E+05  8328.0      347.00
0.95003
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  13 IN STRESS PERIOD
13
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   13   TIME STEP   13
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 13,
STRESS PERIOD  13
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 13,
STRESS PERIOD  13
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 13,
STRESS PERIOD  13
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 13,
STRESS PERIOD  13
1
```

```
              HEAD IN LAYER   1 AT END OF TIME STEP  13 IN STRESS
PERIOD   13
  ---------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

.................................................................
...........................................................
   1    0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
        0.7123      0.7317      0.7509      0.7700
   2    0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
        0.7123      0.7317      0.7509      0.7700
   3    0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
        0.7123      0.7317      0.7509      0.7700
   4    0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
        0.7124      0.7317      0.7509      0.7700
   5    0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
        0.7124      0.7317      0.7509      0.7700
   6    0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
        0.7125      0.7318      0.7510      0.7700
   7    0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
        0.7126      0.7318      0.7510      0.7700
   8    0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
        0.7126      0.7319      0.7510      0.7700
   9    0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
        0.7127      0.7319      0.7510      0.7700
  10    0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
        0.7127      0.7319      0.7510      0.7700
  11    0.5100    -1.0000E+30   0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
        0.7127      0.7319      0.7510      0.7700
  12    0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
        0.7127      0.7319      0.7510      0.7700
  13    0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
        0.7127      0.7319      0.7510      0.7700
  14    0.5100      0.5320      0.5536      0.5745      0.5948
0.6148      0.6346      0.6543      0.6739      0.6933
        0.7126      0.7319      0.7510      0.7700
  15    0.5100      0.5316      0.5529      0.5738      0.5942
0.6144      0.6343      0.6541      0.6737      0.6932
        0.7126      0.7318      0.7510      0.7700
```

```
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   13, STRESS
PERIOD   13
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   13,
STRESS PERIOD  13
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        5392.3311       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        5392.3311            TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        5392.2559       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =        5392.2559           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02            IN - OUT =
0.0000
```

```
 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   13 IN STRESS PERIOD
13
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.12320E+06  18720.      312.00      13.000
3.55921E-02
         TOTAL TIME 3.00672E+07 5.01120E+05  8352.0      348.00
0.95277
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  14 IN STRESS PERIOD
13
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   13   TIME STEP   14
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 14,
STRESS PERIOD  13
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 14,
STRESS PERIOD  13
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 14,
STRESS PERIOD  13
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 14,
STRESS PERIOD  13
1
              HEAD IN LAYER   1 AT END OF TIME STEP  14 IN STRESS
PERIOD   13
  ----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

..................................................................
...............................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
```

```
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
```

```
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   14, STRESS
PERIOD   13
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   14,
STRESS PERIOD  13
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        5407.8257       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        5407.8257            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        5407.7505       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =        5407.7505           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02            IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   14 IN STRESS PERIOD
13
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
```

```
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.20960E+06  20160.      336.00      14.000
3.83299E-02
         TOTAL TIME 3.01536E+07 5.02560E+05  8376.0      349.00
0.95551
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  15 IN STRESS PERIOD
13
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   13   TIME STEP   15
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 15,
STRESS PERIOD  13
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 15,
STRESS PERIOD  13
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 15,
STRESS PERIOD  13
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 15,
STRESS PERIOD  13
1
              HEAD IN LAYER   1 AT END OF TIME STEP  15 IN STRESS
PERIOD   13
  ----------------------------------------------------------------
-----------

           1           2           3           4           5
6           7           8           9          10
           11          12          13          14

..................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
```

```
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   15, STRESS
PERIOD   13
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   15,
STRESS PERIOD  13
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
```

```
          ---                                         ---
             STORAGE =           0.0000                 STORAGE =
0.0000
       CONSTANT HEAD =        5423.3203           CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                   WELLS =
0.0000

            TOTAL IN =        5423.3203                TOTAL IN =
1.7934E-04

          OUT:                                        OUT:
          ----                                        ----
             STORAGE =           0.0000                 STORAGE =
0.0000
       CONSTANT HEAD =        5423.2451           CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                   WELLS =
0.0000

           TOTAL OUT =        5423.2451               TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02                IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   15 IN STRESS PERIOD
13
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.29600E+06  21600.      360.00      15.000
4.10678E-02
         TOTAL TIME 3.02400E+07 5.04000E+05  8400.0      350.00
0.95825
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  16 IN STRESS PERIOD
13
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   13   TIME STEP   16
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
```

```
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 16,
STRESS PERIOD  13
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 16,
STRESS PERIOD  13
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 16,
STRESS PERIOD  13
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 16,
STRESS PERIOD  13
1
              HEAD IN LAYER   1 AT END OF TIME STEP  16 IN STRESS
PERIOD   13
  -----------------------------------------------------------------
-----------

          1            2            3            4            5
6         7            8            9           10
         11           12           13           14

.................................................................
...................................................
   1  0.5100       0.5310       0.5518       0.5725       0.5930
0.6133      0.6334       0.6534       0.6732       0.6928
      0.7123       0.7317       0.7509       0.7700
   2  0.5100       0.5310       0.5519       0.5725       0.5930
0.6133      0.6334       0.6534       0.6732       0.6928
      0.7123       0.7317       0.7509       0.7700
   3  0.5100       0.5311       0.5519       0.5726       0.5931
0.6134      0.6335       0.6535       0.6732       0.6929
      0.7123       0.7317       0.7509       0.7700
   4  0.5100       0.5311       0.5520       0.5727       0.5933
0.6135      0.6336       0.6536       0.6733       0.6929
      0.7124       0.7317       0.7509       0.7700
   5  0.5100       0.5312       0.5522       0.5730       0.5935
0.6137      0.6338       0.6537       0.6734       0.6930
      0.7124       0.7317       0.7509       0.7700
   6  0.5100       0.5314       0.5525       0.5733       0.5938
0.6140      0.6340       0.6539       0.6735       0.6931
      0.7125       0.7318       0.7510       0.7700
   7  0.5100       0.5316       0.5529       0.5737       0.5942
0.6143      0.6343       0.6541       0.6737       0.6932
      0.7126       0.7318       0.7510       0.7700
   8  0.5100       0.5320       0.5536       0.5744       0.5948
0.6148      0.6346       0.6543       0.6738       0.6933
      0.7126       0.7319       0.7510       0.7700
   9  0.5100       0.5326       0.5549       0.5755       0.5955
0.6153      0.6349       0.6545       0.6740       0.6934
      0.7127       0.7319       0.7510       0.7700
  10  0.5100       0.5335       0.5576       0.5772       0.5964
0.6157      0.6352       0.6546       0.6741       0.6934
      0.7127       0.7319       0.7510       0.7700
  11  0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160      0.6353       0.6547       0.6741       0.6935
      0.7127       0.7319       0.7510       0.7700
```

```
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   16, STRESS
PERIOD   13
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   16,
STRESS PERIOD  13
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        5438.8149       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        5438.8149            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =
0.0000
```

```
       CONSTANT HEAD =        5438.7397         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =        5438.7397             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   16 IN STRESS PERIOD
13
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.38240E+06  23040.      384.00      16.000
4.38056E-02
         TOTAL TIME 3.03264E+07 5.05440E+05  8424.0      351.00
0.96099
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  17 IN STRESS PERIOD
13
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   13   TIME STEP   17
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 17,
STRESS PERIOD  13
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 17,
STRESS PERIOD  13
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 17,
STRESS PERIOD  13
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 17,
STRESS PERIOD  13
1
              HEAD IN LAYER   1 AT END OF TIME STEP  17 IN STRESS
PERIOD   13
  ------------------------------------------------------------------
-----------
```

```
              1           2           3           4           5
6             7           8           9          10
             11          12          13          14

.....................................................................
........................................................
   1    0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
        0.7123      0.7317      0.7509      0.7700
   2    0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
        0.7123      0.7317      0.7509      0.7700
   3    0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
        0.7123      0.7317      0.7509      0.7700
   4    0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
        0.7124      0.7317      0.7509      0.7700
   5    0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
        0.7124      0.7317      0.7509      0.7700
   6    0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
        0.7125      0.7318      0.7510      0.7700
   7    0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
        0.7126      0.7318      0.7510      0.7700
   8    0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
        0.7126      0.7319      0.7510      0.7700
   9    0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
        0.7127      0.7319      0.7510      0.7700
  10    0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
        0.7127      0.7319      0.7510      0.7700
  11    0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
        0.7127      0.7319      0.7510      0.7700
  12    0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
        0.7127      0.7319      0.7510      0.7700
  13    0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
        0.7127      0.7319      0.7510      0.7700
  14    0.5100      0.5320      0.5536      0.5745      0.5948
0.6148      0.6346      0.6543      0.6739      0.6933
        0.7126      0.7319      0.7510      0.7700
  15    0.5100      0.5316      0.5529      0.5738      0.5942
0.6144      0.6343      0.6541      0.6737      0.6932
        0.7126      0.7318      0.7510      0.7700
  16    0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6341      0.6539      0.6736      0.6931
        0.7125      0.7318      0.7510      0.7700
```

```
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   17, STRESS
PERIOD   13
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   17,
STRESS PERIOD  13
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        5454.3096        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

            TOTAL IN =        5454.3096             TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        5454.2344        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

           TOTAL OUT =        5454.2344            TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02             IN - OUT =
0.0000

 PERCENT DISCREPANCY =             0.00     PERCENT DISCREPANCY =
0.00
```

```
         TIME SUMMARY AT END OF TIME STEP   17 IN STRESS PERIOD
13
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.46880E+06  24480.      408.00      17.000
4.65435E-02
         TOTAL TIME 3.04128E+07 5.06880E+05  8448.0      352.00
0.96372
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  18 IN STRESS PERIOD
13
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   13   TIME STEP   18
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 18,
STRESS PERIOD  13
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 18,
STRESS PERIOD  13
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 18,
STRESS PERIOD  13
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 18,
STRESS PERIOD  13
1
              HEAD IN LAYER   1 AT END OF TIME STEP  18 IN STRESS
PERIOD   13
  -----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

...................................................................
.....................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
```

```
          0.7123       0.7317       0.7509       0.7700
    4     0.5100       0.5311       0.5520       0.5727       0.5933
 0.6135       0.6336       0.6536       0.6733       0.6929
          0.7124       0.7317       0.7509       0.7700
    5     0.5100       0.5312       0.5522       0.5730       0.5935
 0.6137       0.6338       0.6537       0.6734       0.6930
          0.7124       0.7317       0.7509       0.7700
    6     0.5100       0.5314       0.5525       0.5733       0.5938
 0.6140       0.6340       0.6539       0.6735       0.6931
          0.7125       0.7318       0.7510       0.7700
    7     0.5100       0.5316       0.5529       0.5737       0.5942
 0.6143       0.6343       0.6541       0.6737       0.6932
          0.7126       0.7318       0.7510       0.7700
    8     0.5100       0.5320       0.5536       0.5744       0.5948
 0.6148       0.6346       0.6543       0.6738       0.6933
          0.7126       0.7319       0.7510       0.7700
    9     0.5100       0.5326       0.5549       0.5755       0.5955
 0.6153       0.6349       0.6545       0.6740       0.6934
          0.7127       0.7319       0.7510       0.7700
   10     0.5100       0.5335       0.5576       0.5772       0.5964
 0.6157       0.6352       0.6546       0.6741       0.6934
          0.7127       0.7319       0.7510       0.7700
   11     0.5100      -1.0000E+30   0.5648       0.5791       0.5970
 0.6160       0.6353       0.6547       0.6741       0.6935
          0.7127       0.7319       0.7510       0.7700
   12     0.5100       0.5335       0.5576       0.5772       0.5964
 0.6157       0.6352       0.6546       0.6741       0.6934
          0.7127       0.7319       0.7510       0.7700
   13     0.5100       0.5326       0.5549       0.5756       0.5955
 0.6153       0.6349       0.6545       0.6740       0.6934
          0.7127       0.7319       0.7510       0.7700
   14     0.5100       0.5320       0.5536       0.5745       0.5948
 0.6148       0.6346       0.6543       0.6739       0.6933
          0.7126       0.7319       0.7510       0.7700
   15     0.5100       0.5316       0.5529       0.5738       0.5942
 0.6144       0.6343       0.6541       0.6737       0.6932
          0.7126       0.7318       0.7510       0.7700
   16     0.5100       0.5314       0.5525       0.5733       0.5938
 0.6140       0.6341       0.6539       0.6736       0.6931
          0.7125       0.7318       0.7510       0.7700
   17     0.5100       0.5312       0.5522       0.5730       0.5935
 0.6138       0.6339       0.6538       0.6735       0.6930
          0.7125       0.7318       0.7509       0.7700
   18     0.5100       0.5311       0.5521       0.5728       0.5933
 0.6136       0.6337       0.6536       0.6734       0.6930
          0.7124       0.7317       0.7509       0.7700
   19     0.5100       0.5311       0.5520       0.5727       0.5932
 0.6135       0.6336       0.6536       0.6733       0.6929
          0.7124       0.7317       0.7509       0.7700
   20     0.5100       0.5311       0.5519       0.5726       0.5932
 0.6135       0.6336       0.6535       0.6733       0.6929
          0.7124       0.7317       0.7509       0.7700

  HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   18, STRESS
 PERIOD   13
1
```

VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP 18,
STRESS PERIOD 13

CUMULATIVE VOLUMES L**3 RATES FOR THIS TIME STEP
L**3/T
------------------ ------------------------

IN: IN:
--- ---
STORAGE = 0.0000 STORAGE =
0.0000
CONSTANT HEAD = 5469.8042 CONSTANT HEAD =
1.7934E-04
WELLS = 0.0000 WELLS =
0.0000

TOTAL IN = 5469.8042 TOTAL IN =
1.7934E-04

OUT: OUT:
---- ----
STORAGE = 0.0000 STORAGE =
0.0000
CONSTANT HEAD = 5469.7290 CONSTANT HEAD =
1.7934E-04
WELLS = 0.0000 WELLS =
0.0000

TOTAL OUT = 5469.7290 TOTAL OUT =
1.7934E-04

IN - OUT = 7.5195E-02 IN - OUT =
0.0000

PERCENT DISCREPANCY = 0.00 PERCENT DISCREPANCY =
0.00

TIME SUMMARY AT END OF TIME STEP 18 IN STRESS PERIOD
13
SECONDS MINUTES HOURS DAYS
YEARS

TIME STEP LENGTH 86400. 1440.0 24.000 1.00000
2.73785E-03
STRESS PERIOD TIME 1.55520E+06 25920. 432.00 18.000
4.92813E-02
TOTAL TIME 3.04992E+07 5.08320E+05 8472.0 353.00
0.96646

```
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  19 IN STRESS PERIOD
13
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   13   TIME STEP   19
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 19,
STRESS PERIOD  13
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 19,
STRESS PERIOD  13
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 19,
STRESS PERIOD  13
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 19,
STRESS PERIOD  13
1
              HEAD IN LAYER   1 AT END OF TIME STEP  19 IN STRESS
PERIOD   13
  ----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

.................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
```

```
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   19, STRESS
PERIOD   13
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   19,
STRESS PERIOD  13
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                       IN:
           ---                                       ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        5485.2988         CONSTANT HEAD =
1.7934E-04
```

```
                WELLS =          0.0000                   WELLS =
0.0000

             TOTAL IN =       5485.2988                TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
              STORAGE =          0.0000                 STORAGE =
0.0000
        CONSTANT HEAD =       5485.2236           CONSTANT HEAD =
1.7934E-04
                WELLS =          0.0000                   WELLS =
0.0000

            TOTAL OUT =       5485.2236               TOTAL OUT =
1.7934E-04

             IN - OUT =      7.5195E-02                IN - OUT =
0.0000

 PERCENT DISCREPANCY =          0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   19 IN STRESS PERIOD
13
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.64160E+06  27360.      456.00      19.000
5.20192E-02
         TOTAL TIME 3.05856E+07 5.09760E+05  8496.0      354.00
0.96920
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  20 IN STRESS PERIOD
13
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   13   TIME STEP   20
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 20,
STRESS PERIOD  13
```

```
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 20,
STRESS PERIOD  13
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 20,
STRESS PERIOD  13
 UBDSV4 SAVING "            WELLS" ON UNIT 953 AT TIME STEP 20,
STRESS PERIOD  13
1
              HEAD IN LAYER   1 AT END OF TIME STEP  20 IN STRESS
PERIOD   13
  -----------------------------------------------------------------
-----------

            1            2            3            4            5
6           7            8            9           10
           11           12           13           14

...................................................................
......................................................
   1   0.5100       0.5310       0.5518       0.5725       0.5930
0.6133      0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133      0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134      0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135      0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137      0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140      0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143      0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148      0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153      0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157      0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100     -1.0000E+30   0.5648       0.5791       0.5970
0.6160      0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157      0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153      0.6349       0.6545       0.6740       0.6934
```

```
       0.7127      0.7319      0.7510      0.7700
  14   0.5100      0.5320      0.5536      0.5745      0.5948
0.6148      0.6346      0.6543      0.6739      0.6933
       0.7126      0.7319      0.7510      0.7700
  15   0.5100      0.5316      0.5529      0.5738      0.5942
0.6144      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
  16   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6341      0.6539      0.6736      0.6931
       0.7125      0.7318      0.7510      0.7700
  17   0.5100      0.5312      0.5522      0.5730      0.5935
0.6138      0.6339      0.6538      0.6735      0.6930
       0.7125      0.7318      0.7509      0.7700
  18   0.5100      0.5311      0.5521      0.5728      0.5933
0.6136      0.6337      0.6536      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
  19   0.5100      0.5311      0.5520      0.5727      0.5932
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
  20   0.5100      0.5311      0.5519      0.5726      0.5932
0.6135      0.6336      0.6535      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   20, STRESS
PERIOD   13
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   20,
STRESS PERIOD  13
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        5500.7935         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =        5500.7935              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        5500.7183         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000
```

```
           TOTAL OUT =        5500.7183             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02               IN - OUT =
0.0000

 PERCENT DISCREPANCY =             0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   20 IN STRESS PERIOD
13
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.72800E+06  28800.      480.00      20.000
5.47570E-02
         TOTAL TIME 3.06720E+07 5.11200E+05  8520.0      355.00
0.97194
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  21 IN STRESS PERIOD
13
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   13   TIME STEP   21
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 21,
STRESS PERIOD  13
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 21,
STRESS PERIOD  13
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 21,
STRESS PERIOD  13
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 21,
STRESS PERIOD  13
1
              HEAD IN LAYER   1 AT END OF TIME STEP  21 IN STRESS
PERIOD   13
  ------------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14
```

```
.....................................................................
........................................................
   1  0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
      0.7123      0.7317      0.7509      0.7700
   2  0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
      0.7123      0.7317      0.7509      0.7700
   3  0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
      0.7123      0.7317      0.7509      0.7700
   4  0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
      0.7124      0.7317      0.7509      0.7700
   5  0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
      0.7124      0.7317      0.7509      0.7700
   6  0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
      0.7125      0.7318      0.7510      0.7700
   7  0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
      0.7126      0.7318      0.7510      0.7700
   8  0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
      0.7126      0.7319      0.7510      0.7700
   9  0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
      0.7127      0.7319      0.7510      0.7700
  10  0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
      0.7127      0.7319      0.7510      0.7700
  11  0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
      0.7127      0.7319      0.7510      0.7700
  12  0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
      0.7127      0.7319      0.7510      0.7700
  13  0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
      0.7127      0.7319      0.7510      0.7700
  14  0.5100      0.5320      0.5536      0.5745      0.5948
0.6148      0.6346      0.6543      0.6739      0.6933
      0.7126      0.7319      0.7510      0.7700
  15  0.5100      0.5316      0.5529      0.5738      0.5942
0.6144      0.6343      0.6541      0.6737      0.6932
      0.7126      0.7318      0.7510      0.7700
  16  0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6341      0.6539      0.6736      0.6931
      0.7125      0.7318      0.7510      0.7700
  17  0.5100      0.5312      0.5522      0.5730      0.5935
0.6138      0.6339      0.6538      0.6735      0.6930
      0.7125      0.7318      0.7509      0.7700
  18  0.5100      0.5311      0.5521      0.5728      0.5933
0.6136      0.6337      0.6536      0.6734      0.6930
```

```
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   21, STRESS
PERIOD   13
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   21,
STRESS PERIOD  13
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        5516.2881       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        5516.2881            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        5516.2129       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =        5516.2129           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02            IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00
```

```
         TIME SUMMARY AT END OF TIME STEP   21 IN STRESS PERIOD
13
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.81440E+06  30240.      504.00      21.000
5.74949E-02
         TOTAL TIME 3.07584E+07 5.12640E+05  8544.0      356.00
0.97467
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  22 IN STRESS PERIOD
13
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   13   TIME STEP   22
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 22,
STRESS PERIOD  13
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 22,
STRESS PERIOD  13
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 22,
STRESS PERIOD  13
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 22,
STRESS PERIOD  13
1
              HEAD IN LAYER   1 AT END OF TIME STEP  22 IN STRESS
PERIOD   13
  ---------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

...................................................................
.......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
```

```
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   22, STRESS
PERIOD   13
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   22,
STRESS PERIOD  13
  ------------------------------------------------------------------
--------------
```

```
     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        5531.7827       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        5531.7827            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        5531.7075       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =        5531.7075           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02            IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   22 IN STRESS PERIOD
13
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.90080E+06  31680.      528.00      22.000
6.02327E-02
         TOTAL TIME 3.08448E+07 5.14080E+05  8568.0      357.00
0.97741
1

 SOLVING FOR HEAD
```

```
     1 CALLS TO PCG ROUTINE FOR TIME STEP  23 IN STRESS PERIOD
13
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   13   TIME STEP   23
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 23,
STRESS PERIOD  13
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 23,
STRESS PERIOD  13
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 23,
STRESS PERIOD  13
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 23,
STRESS PERIOD  13
1
              HEAD IN LAYER   1 AT END OF TIME STEP  23 IN STRESS
PERIOD   13
  ---------------------------------------------------------------
-----------

            1            2            3            4            5
6            7            8            9           10
           11           12           13           14

.................................................................
.....................................................
   1   0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
```

```
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   23, STRESS
PERIOD   13
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   23,
STRESS PERIOD  13
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        5547.2773         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000
```

```
              TOTAL IN =        5547.2773              TOTAL IN =
1.7934E-04

          OUT:                                      OUT:
          ----                                      ----
               STORAGE =           0.0000               STORAGE =
0.0000
         CONSTANT HEAD =        5547.2021         CONSTANT HEAD =
1.7934E-04
                 WELLS =           0.0000                 WELLS =
0.0000

             TOTAL OUT =        5547.2021             TOTAL OUT =
1.7934E-04

              IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =             0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   23 IN STRESS PERIOD
13
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 1.98720E+06  33120.      552.00      23.000
6.29706E-02
         TOTAL TIME 3.09312E+07 5.15520E+05  8592.0      358.00
0.98015
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  24 IN STRESS PERIOD
13
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   13   TIME STEP   24
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 24,
STRESS PERIOD  13
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 24,
STRESS PERIOD  13
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 24,
STRESS PERIOD  13
```

```
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 24,
STRESS PERIOD  13
1
             HEAD IN LAYER   1 AT END OF TIME STEP  24 IN STRESS
PERIOD   13
  ---------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

.................................................................
.....................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
   7   0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
   8   0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
       0.7126      0.7319      0.7510      0.7700
   9   0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  10   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  11   0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
       0.7127      0.7319      0.7510      0.7700
  12   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  13   0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  14   0.5100      0.5320      0.5536      0.5745      0.5948
0.6148      0.6346      0.6543      0.6739      0.6933
       0.7126      0.7319      0.7510      0.7700
```

```
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   24, STRESS
PERIOD   13
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   24,
STRESS PERIOD  13
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        5562.7720       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        5562.7720            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        5562.6968       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =        5562.6968           TOTAL OUT =
1.7934E-04
```

```
            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   24 IN STRESS PERIOD
13
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.07360E+06  34560.      576.00      24.000
6.57084E-02
         TOTAL TIME 3.10176E+07 5.16960E+05  8616.0      359.00
0.98289
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  25 IN STRESS PERIOD
13
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   13   TIME STEP   25
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 25,
STRESS PERIOD  13
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 25,
STRESS PERIOD  13
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 25,
STRESS PERIOD  13
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 25,
STRESS PERIOD  13
1
              HEAD IN LAYER   1 AT END OF TIME STEP  25 IN STRESS
PERIOD   13
  -----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

...................................................................
.......................................................
```

```
   1   0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
```

```
       0.7124      0.7317      0.7509      0.7700
  20   0.5100      0.5311      0.5519      0.5726      0.5932
0.6135      0.6336      0.6535      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   25, STRESS
PERIOD   13
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   25,
STRESS PERIOD  13
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        5578.2666         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =        5578.2666              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        5578.1914         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

           TOTAL OUT =        5578.1914             TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02              IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   25 IN STRESS PERIOD
13
                    SECONDS      MINUTES       HOURS        DAYS
YEARS
```

```
                    ----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.16000E+06  36000.      600.00      25.000
6.84463E-02
         TOTAL TIME 3.11040E+07 5.18400E+05  8640.0      360.00
0.98563
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  26 IN STRESS PERIOD
13
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   13   TIME STEP   26
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 26,
STRESS PERIOD  13
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 26,
STRESS PERIOD  13
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 26,
STRESS PERIOD  13
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 26,
STRESS PERIOD  13
1
              HEAD IN LAYER   1 AT END OF TIME STEP  26 IN STRESS
PERIOD   13
  ------------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

....................................................................
.....................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
```

```
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   26, STRESS
PERIOD   13
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   26,
STRESS PERIOD  13
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
```

```
     ------------------                  ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        5593.7612        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

            TOTAL IN =        5593.7612             TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
          ----                                    ----
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        5593.6860        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

           TOTAL OUT =        5593.6860            TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02             IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   26 IN STRESS PERIOD
13
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.24640E+06  37440.      624.00      26.000
7.11841E-02
         TOTAL TIME 3.11904E+07 5.19840E+05  8664.0      361.00
0.98836
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  27 IN STRESS PERIOD
13
     1 TOTAL ITERATIONS
```

```
 OUTPUT CONTROL FOR STRESS PERIOD   13   TIME STEP   27
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 27,
STRESS PERIOD  13
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 27,
STRESS PERIOD  13
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 27,
STRESS PERIOD  13
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 27,
STRESS PERIOD  13
1
              HEAD IN LAYER   1 AT END OF TIME STEP  27 IN STRESS
PERIOD   13
  ---------------------------------------------------------------
-----------

           1            2            3            4            5
6          7            8            9           10
          11           12           13           14

.................................................................
.....................................................
   1   0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
```

```
  11   0.5100     -1.0000E+30  0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
       0.7127      0.7319      0.7510      0.7700
  12   0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
       0.7127      0.7319      0.7510      0.7700
  13   0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
       0.7127      0.7319      0.7510      0.7700
  14   0.5100      0.5320      0.5536      0.5745      0.5948
0.6148      0.6346      0.6543      0.6739      0.6933
       0.7126      0.7319      0.7510      0.7700
  15   0.5100      0.5316      0.5529      0.5738      0.5942
0.6144      0.6343      0.6541      0.6737      0.6932
       0.7126      0.7318      0.7510      0.7700
  16   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6341      0.6539      0.6736      0.6931
       0.7125      0.7318      0.7510      0.7700
  17   0.5100      0.5312      0.5522      0.5730      0.5935
0.6138      0.6339      0.6538      0.6735      0.6930
       0.7125      0.7318      0.7509      0.7700
  18   0.5100      0.5311      0.5521      0.5728      0.5933
0.6136      0.6337      0.6536      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
  19   0.5100      0.5311      0.5520      0.5727      0.5932
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
  20   0.5100      0.5311      0.5519      0.5726      0.5932
0.6135      0.6336      0.6535      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   27, STRESS
PERIOD   13
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   27,
STRESS PERIOD  13
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
           ---                                     ---
             STORAGE =            0.0000             STORAGE =
0.0000
       CONSTANT HEAD =         5609.2559       CONSTANT HEAD =
1.7934E-04
               WELLS =            0.0000               WELLS =
0.0000

            TOTAL IN =         5609.2559            TOTAL IN =
1.7934E-04

          OUT:                                    OUT:
```

```
          ----                                      ----
             STORAGE =          0.0000                 STORAGE =
0.0000
       CONSTANT HEAD =       5609.1807           CONSTANT HEAD =
1.7934E-04
               WELLS =          0.0000                   WELLS =
0.0000

           TOTAL OUT =       5609.1807               TOTAL OUT =
1.7934E-04

            IN - OUT =      7.5195E-02                IN - OUT =
0.0000

 PERCENT DISCREPANCY =          0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   27 IN STRESS PERIOD
13
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.33280E+06  38880.      648.00      27.000
7.39220E-02
         TOTAL TIME 3.12768E+07 5.21280E+05  8688.0      362.00
0.99110
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  28 IN STRESS PERIOD
13
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   13   TIME STEP   28
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 28,
STRESS PERIOD  13
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 28,
STRESS PERIOD  13
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 28,
STRESS PERIOD  13
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 28,
STRESS PERIOD  13
1
```

```
             HEAD IN LAYER   1 AT END OF TIME STEP  28 IN STRESS
PERIOD   13
  ----------------------------------------------------------------
-----------

            1           2           3           4           5
6           7           8           9          10
           11          12          13          14

...................................................................
.....................................................
   1    0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
        0.7123      0.7317      0.7509      0.7700
   2    0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
        0.7123      0.7317      0.7509      0.7700
   3    0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
        0.7123      0.7317      0.7509      0.7700
   4    0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
        0.7124      0.7317      0.7509      0.7700
   5    0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
        0.7124      0.7317      0.7509      0.7700
   6    0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
        0.7125      0.7318      0.7510      0.7700
   7    0.5100      0.5316      0.5529      0.5737      0.5942
0.6143      0.6343      0.6541      0.6737      0.6932
        0.7126      0.7318      0.7510      0.7700
   8    0.5100      0.5320      0.5536      0.5744      0.5948
0.6148      0.6346      0.6543      0.6738      0.6933
        0.7126      0.7319      0.7510      0.7700
   9    0.5100      0.5326      0.5549      0.5755      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
        0.7127      0.7319      0.7510      0.7700
  10    0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
        0.7127      0.7319      0.7510      0.7700
  11    0.5100    -1.0000E+30   0.5648      0.5791      0.5970
0.6160      0.6353      0.6547      0.6741      0.6935
        0.7127      0.7319      0.7510      0.7700
  12    0.5100      0.5335      0.5576      0.5772      0.5964
0.6157      0.6352      0.6546      0.6741      0.6934
        0.7127      0.7319      0.7510      0.7700
  13    0.5100      0.5326      0.5549      0.5756      0.5955
0.6153      0.6349      0.6545      0.6740      0.6934
        0.7127      0.7319      0.7510      0.7700
  14    0.5100      0.5320      0.5536      0.5745      0.5948
0.6148      0.6346      0.6543      0.6739      0.6933
        0.7126      0.7319      0.7510      0.7700
  15    0.5100      0.5316      0.5529      0.5738      0.5942
0.6144      0.6343      0.6541      0.6737      0.6932
        0.7126      0.7318      0.7510      0.7700
```

```
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   28, STRESS
PERIOD   13
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   28,
STRESS PERIOD  13
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        5624.7505       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        5624.7505            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        5624.6753       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =        5624.6753           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02            IN - OUT =
0.0000
```

```
 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   28 IN STRESS PERIOD
13
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.41920E+06  40320.      672.00      28.000
7.66598E-02
         TOTAL TIME 3.13632E+07 5.22720E+05  8712.0      363.00
0.99384
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  29 IN STRESS PERIOD
13
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   13   TIME STEP   29
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 29,
STRESS PERIOD  13
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 29,
STRESS PERIOD  13
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 29,
STRESS PERIOD  13
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 29,
STRESS PERIOD  13
1
              HEAD IN LAYER   1 AT END OF TIME STEP  29 IN STRESS
PERIOD   13
  -----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

...................................................................
.....................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
```

```
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
       0.7126       0.7319       0.7510       0.7700
  15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
  16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
       0.7125       0.7318       0.7510       0.7700
  17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
       0.7125       0.7318       0.7509       0.7700
  18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
  19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
  20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
```

```
       0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   29, STRESS
PERIOD   13
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   29,
STRESS PERIOD  13
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        5640.2451        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

            TOTAL IN =        5640.2451             TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000              STORAGE =
0.0000
       CONSTANT HEAD =        5640.1699        CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                WELLS =
0.0000

           TOTAL OUT =        5640.1699            TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02             IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   29 IN STRESS PERIOD
13
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
```

```
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.50560E+06  41760.      696.00      29.000
7.93977E-02
         TOTAL TIME 3.14496E+07 5.24160E+05  8736.0      364.00
0.99658
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  30 IN STRESS PERIOD
13
     1 TOTAL ITERATIONS

 OUTPUT CONTROL FOR STRESS PERIOD   13   TIME STEP   30
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 30,
STRESS PERIOD  13
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 30,
STRESS PERIOD  13
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 30,
STRESS PERIOD  13
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 30,
STRESS PERIOD  13
1
              HEAD IN LAYER   1 AT END OF TIME STEP  30 IN STRESS
PERIOD   13
  ----------------------------------------------------------------
-----------

           1           2           3           4           5
6          7           8           9          10
          11          12          13          14

..................................................................
......................................................
   1   0.5100      0.5310      0.5518      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   2   0.5100      0.5310      0.5519      0.5725      0.5930
0.6133      0.6334      0.6534      0.6732      0.6928
       0.7123      0.7317      0.7509      0.7700
   3   0.5100      0.5311      0.5519      0.5726      0.5931
0.6134      0.6335      0.6535      0.6732      0.6929
       0.7123      0.7317      0.7509      0.7700
   4   0.5100      0.5311      0.5520      0.5727      0.5933
0.6135      0.6336      0.6536      0.6733      0.6929
       0.7124      0.7317      0.7509      0.7700
   5   0.5100      0.5312      0.5522      0.5730      0.5935
0.6137      0.6338      0.6537      0.6734      0.6930
       0.7124      0.7317      0.7509      0.7700
   6   0.5100      0.5314      0.5525      0.5733      0.5938
0.6140      0.6340      0.6539      0.6735      0.6931
       0.7125      0.7318      0.7510      0.7700
```

```
    7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
        0.7126       0.7318       0.7510       0.7700
    8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
        0.7126       0.7319       0.7510       0.7700
    9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
        0.7127       0.7319       0.7510       0.7700
   10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
        0.7127       0.7319       0.7510       0.7700
   11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
        0.7127       0.7319       0.7510       0.7700
   12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
        0.7127       0.7319       0.7510       0.7700
   13   0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
        0.7127       0.7319       0.7510       0.7700
   14   0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
        0.7126       0.7319       0.7510       0.7700
   15   0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
        0.7126       0.7318       0.7510       0.7700
   16   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
        0.7125       0.7318       0.7510       0.7700
   17   0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
        0.7125       0.7318       0.7509       0.7700
   18   0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
        0.7124       0.7317       0.7509       0.7700
   19   0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
        0.7124       0.7317       0.7509       0.7700
   20   0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
        0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   30, STRESS
PERIOD   13
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   30,
STRESS PERIOD  13
  ------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                     IN:
```

```
          ---                                       ---
             STORAGE =          0.0000              STORAGE =
0.0000
       CONSTANT HEAD =       5655.7397        CONSTANT HEAD =
1.7934E-04
               WELLS =          0.0000                WELLS =
0.0000

            TOTAL IN =       5655.7397             TOTAL IN =
1.7934E-04

          OUT:                                      OUT:
          ----                                      ----
             STORAGE =          0.0000              STORAGE =
0.0000
       CONSTANT HEAD =       5655.6646        CONSTANT HEAD =
1.7934E-04
               WELLS =          0.0000                WELLS =
0.0000

           TOTAL OUT =       5655.6646            TOTAL OUT =
1.7934E-04

            IN - OUT =      7.5195E-02             IN - OUT =
0.0000

 PERCENT DISCREPANCY =            0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   30 IN STRESS PERIOD
13
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.59200E+06  43200.      720.00      30.000
8.21355E-02
         TOTAL TIME 3.15360E+07 5.25600E+05  8760.0      365.00
0.99932
1

 SOLVING FOR HEAD
     1 CALLS TO PCG ROUTINE FOR TIME STEP  31 IN STRESS PERIOD
13
     1 TOTAL ITERATIONS

 MAXIMUM HEAD CHANGE FOR EACH ITERATION (1 INDICATES THE FIRST
INNER ITERATION):
```

```
    HEAD CHANGE    HEAD CHANGE    HEAD CHANGE    HEAD CHANGE
HEAD CHANGE
   LAYER,ROW,COL  LAYER,ROW,COL  LAYER,ROW,COL  LAYER,ROW,COL
LAYER,ROW,COL
 ------------------------------------------------------------------
----------
  1 -0.2365E-15
   (  1,  3,  8)

 MAXIMUM RESIDUAL FOR EACH ITERATION (1 INDICATES THE FIRST INNER
ITERATION):

    RESIDUAL       RESIDUAL       RESIDUAL       RESIDUAL
RESIDUAL
   LAYER,ROW,COL  LAYER,ROW,COL  LAYER,ROW,COL  LAYER,ROW,COL
LAYER,ROW,COL
 ------------------------------------------------------------------
----------
  1  0.1206E-18
   (  1,  2, 11)



 OUTPUT CONTROL FOR STRESS PERIOD   13   TIME STEP   31
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP 31,
STRESS PERIOD  13
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP 31,
STRESS PERIOD  13
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP 31,
STRESS PERIOD  13
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP 31,
STRESS PERIOD  13
1
              HEAD IN LAYER   1 AT END OF TIME STEP  31 IN STRESS
PERIOD   13
  -----------------------------------------------------------------
-----------

           1            2            3            4            5
6            7            8            9           10
          11           12           13           14

..................................................................
......................................................
   1   0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
```

```
          0.7123       0.7317       0.7509       0.7700
    4     0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
          0.7124       0.7317       0.7509       0.7700
    5     0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
          0.7124       0.7317       0.7509       0.7700
    6     0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
          0.7125       0.7318       0.7510       0.7700
    7     0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
          0.7126       0.7318       0.7510       0.7700
    8     0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
          0.7126       0.7319       0.7510       0.7700
    9     0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
          0.7127       0.7319       0.7510       0.7700
   10     0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
          0.7127       0.7319       0.7510       0.7700
   11     0.5100      -1.0000E+30   0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
          0.7127       0.7319       0.7510       0.7700
   12     0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
          0.7127       0.7319       0.7510       0.7700
   13     0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
          0.7127       0.7319       0.7510       0.7700
   14     0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
          0.7126       0.7319       0.7510       0.7700
   15     0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
          0.7126       0.7318       0.7510       0.7700
   16     0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
          0.7125       0.7318       0.7510       0.7700
   17     0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
          0.7125       0.7318       0.7509       0.7700
   18     0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
          0.7124       0.7317       0.7509       0.7700
   19     0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
          0.7124       0.7317       0.7509       0.7700
   20     0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
          0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP   31, STRESS
PERIOD   13
1
```

```
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP   31,
STRESS PERIOD  13
  -----------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        5671.2344       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

            TOTAL IN =        5671.2344            TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000             STORAGE =
0.0000
       CONSTANT HEAD =        5671.1592       CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000               WELLS =
0.0000

           TOTAL OUT =        5671.1592           TOTAL OUT =
1.7934E-04

            IN - OUT =       7.5195E-02            IN - OUT =
0.0000

 PERCENT DISCREPANCY =           0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP   31 IN STRESS PERIOD
13
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH  86400.      1440.0      24.000     1.00000
2.73785E-03
 STRESS PERIOD TIME 2.67840E+06  44640.      744.00      31.000
8.48734E-02
         TOTAL TIME 3.16224E+07 5.27040E+05  8784.0      366.00
1.0021
```

```
1
1
                            STRESS PERIOD NO.   14, LENGTH =
2592000.
                            --------------------------------------
---------

                              NUMBER OF TIME STEPS =     1

                               MULTIPLIER FOR DELT =     1.000

                            INITIAL TIME STEP SIZE =   2592000.

 WELL NO.  LAYER   ROW   COL   STRESS RATE
 --------------------------------------------------
      1      1     11      2     -100.00

      1 WELL

 SOLVING FOR HEAD


     1 CALLS TO PCG ROUTINE FOR TIME STEP   1 IN STRESS PERIOD
14
     1 TOTAL ITERATIONS

 MAXIMUM HEAD CHANGE FOR EACH ITERATION (1 INDICATES THE FIRST
INNER ITERATION):

    HEAD CHANGE    HEAD CHANGE    HEAD CHANGE    HEAD CHANGE
HEAD CHANGE
   LAYER,ROW,COL  LAYER,ROW,COL  LAYER,ROW,COL  LAYER,ROW,COL
LAYER,ROW,COL
 -----------------------------------------------------------------
----------
  1  0.2530E-15
   (  1,   4,   9)

 MAXIMUM RESIDUAL FOR EACH ITERATION (1 INDICATES THE FIRST INNER
ITERATION):

    RESIDUAL       RESIDUAL       RESIDUAL       RESIDUAL
RESIDUAL
   LAYER,ROW,COL  LAYER,ROW,COL  LAYER,ROW,COL  LAYER,ROW,COL
LAYER,ROW,COL
 -----------------------------------------------------------------
----------
  1  0.1104E-18
   (  1,   6,   9)



 OUTPUT CONTROL FOR STRESS PERIOD   14   TIME STEP    1
    SAVE HEAD FOR ALL LAYERS
    PRINT HEAD FOR ALL LAYERS
    PRINT BUDGET
```

```
    SAVE BUDGET
 UBDSV2 SAVING "   CONSTANT HEAD" ON UNIT 953 AT TIME STEP  1,
STRESS PERIOD  14
 UBDSV1 SAVING "FLOW RIGHT FACE " ON UNIT 953 AT TIME STEP  1,
STRESS PERIOD  14
 UBDSV1 SAVING "FLOW FRONT FACE " ON UNIT 953 AT TIME STEP  1,
STRESS PERIOD  14
 UBDSV4 SAVING "           WELLS" ON UNIT 953 AT TIME STEP  1,
STRESS PERIOD  14
1
              HEAD IN LAYER   1 AT END OF TIME STEP   1 IN STRESS
PERIOD   14
  ----------------------------------------------------------------
-----------

            1            2            3            4            5
6           7            8            9           10
           11           12           13           14

..................................................................
......................................................
   1   0.5100       0.5310       0.5518       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   2   0.5100       0.5310       0.5519       0.5725       0.5930
0.6133       0.6334       0.6534       0.6732       0.6928
       0.7123       0.7317       0.7509       0.7700
   3   0.5100       0.5311       0.5519       0.5726       0.5931
0.6134       0.6335       0.6535       0.6732       0.6929
       0.7123       0.7317       0.7509       0.7700
   4   0.5100       0.5311       0.5520       0.5727       0.5933
0.6135       0.6336       0.6536       0.6733       0.6929
       0.7124       0.7317       0.7509       0.7700
   5   0.5100       0.5312       0.5522       0.5730       0.5935
0.6137       0.6338       0.6537       0.6734       0.6930
       0.7124       0.7317       0.7509       0.7700
   6   0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6340       0.6539       0.6735       0.6931
       0.7125       0.7318       0.7510       0.7700
   7   0.5100       0.5316       0.5529       0.5737       0.5942
0.6143       0.6343       0.6541       0.6737       0.6932
       0.7126       0.7318       0.7510       0.7700
   8   0.5100       0.5320       0.5536       0.5744       0.5948
0.6148       0.6346       0.6543       0.6738       0.6933
       0.7126       0.7319       0.7510       0.7700
   9   0.5100       0.5326       0.5549       0.5755       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
       0.7127       0.7319       0.7510       0.7700
  10   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
       0.7127       0.7319       0.7510       0.7700
  11   0.5100      -1.0000E+30  0.5648       0.5791       0.5970
0.6160       0.6353       0.6547       0.6741       0.6935
       0.7127       0.7319       0.7510       0.7700
  12   0.5100       0.5335       0.5576       0.5772       0.5964
0.6157       0.6352       0.6546       0.6741       0.6934
```

```
        0.7127       0.7319       0.7510       0.7700
  13    0.5100       0.5326       0.5549       0.5756       0.5955
0.6153       0.6349       0.6545       0.6740       0.6934
        0.7127       0.7319       0.7510       0.7700
  14    0.5100       0.5320       0.5536       0.5745       0.5948
0.6148       0.6346       0.6543       0.6739       0.6933
        0.7126       0.7319       0.7510       0.7700
  15    0.5100       0.5316       0.5529       0.5738       0.5942
0.6144       0.6343       0.6541       0.6737       0.6932
        0.7126       0.7318       0.7510       0.7700
  16    0.5100       0.5314       0.5525       0.5733       0.5938
0.6140       0.6341       0.6539       0.6736       0.6931
        0.7125       0.7318       0.7510       0.7700
  17    0.5100       0.5312       0.5522       0.5730       0.5935
0.6138       0.6339       0.6538       0.6735       0.6930
        0.7125       0.7318       0.7509       0.7700
  18    0.5100       0.5311       0.5521       0.5728       0.5933
0.6136       0.6337       0.6536       0.6734       0.6930
        0.7124       0.7317       0.7509       0.7700
  19    0.5100       0.5311       0.5520       0.5727       0.5932
0.6135       0.6336       0.6536       0.6733       0.6929
        0.7124       0.7317       0.7509       0.7700
  20    0.5100       0.5311       0.5519       0.5726       0.5932
0.6135       0.6336       0.6535       0.6733       0.6929
        0.7124       0.7317       0.7509       0.7700

 HEAD WILL BE SAVED ON UNIT   51 AT END OF TIME STEP    1, STRESS
PERIOD   14
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP    1,
STRESS PERIOD  14
  -------------------------------------------------------------------
--------------

     CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP
L**3/T
     ------------------                 ------------------------

           IN:                                      IN:
           ---                                      ---
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        6136.0767         CONSTANT HEAD =
1.7934E-04
               WELLS =           0.0000                 WELLS =
0.0000

            TOTAL IN =        6136.0767              TOTAL IN =
1.7934E-04

          OUT:                                     OUT:
          ----                                     ----
             STORAGE =           0.0000               STORAGE =
0.0000
       CONSTANT HEAD =        6136.0015         CONSTANT HEAD =
1.7934E-04
```

```
               WELLS =            0.0000                  WELLS =
0.0000

           TOTAL OUT =         6136.0015              TOTAL OUT =
1.7934E-04

            IN - OUT =        7.5195E-02               IN - OUT =
0.0000

 PERCENT DISCREPANCY =              0.00     PERCENT DISCREPANCY =
0.00




         TIME SUMMARY AT END OF TIME STEP    1 IN STRESS PERIOD
14
                    SECONDS     MINUTES      HOURS       DAYS
YEARS
                    -----------------------------------------------
-------------
   TIME STEP LENGTH 2.59200E+06  43200.      720.00      30.000
8.21355E-02
 STRESS PERIOD TIME 2.59200E+06  43200.      720.00      30.000
8.21355E-02
         TOTAL TIME 3.42144E+07 5.70240E+05  9504.0      396.00
1.0842
1

 Run end date and time (yyyy/mm/dd hh:mm:ss): 2022/08/02 15:01:52
 Elapsed run time:  0.593 Seconds
```