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Basin F Subregional Groundwater Model

Edward Mazion, Jr., James H. May, Benita Abraham,
and Maureen K. Corcoran

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Basin F Subregional Groundwater Model

by Edward Mazion, Jr., James H. May, Benita Abraham, Maureen K. Corcoran

Geotechnical and Structures Laboratory
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Final report

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Rocky Mountain Arsenal
Commerce City, CO 80240

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Preface

This study is a subregional numerical computer groundwater model of the Basin F Area of Rocky Mountain Arsenal (RMA). The study was conducted by the U.S. Army Engineer Research and Development Center (ERDC), Geotechnical and Structures Laboratory (GSL), for the Program Manager's Office, Rocky Mountain Arsenal, Colorado, and is part of the Detailed Analysis of Alternatives (DAA) of the Rocky Mountain Arsenal Feasibility Study (FS). This modeling effort was conducted before ERDC developed the Department of Defense Groundwater Modeling System (GMS). The GMS is widely used for visualizing and numerical modeling of complex groundwater problems.

This report was written by Captain Edward Mazion, Jr., EN, Dr. James H. May, Mrs. Benita Abraham, and Ms. Maureen K. Corcoran, GSL. It was completed under the supervision of Dr. Lillian D. Wakeley, Chief, Engineering Geology & Geophysics Branch, and Dr. Robert Hall, Chief, Geosciences and Structures Division, GSL. Dr. Michael J. O'Connor was Director, GSL.

The GSL gratefully acknowledges the helpful suggestions, constructive criticisms, and information provided by Dr. James W. Warner, Mr. C. Tamayo-Lara, and Dr. A. A. Abdel-Rahman, Civil Engineering Department, Colorado State University.

At the time of publication of this report, Dr. James R. Houston was Director of ERDC, and COL John W. Morris III, EN, was Commander and Executive Director.

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1 Introduction and Purpose

Purpose of Subregional Groundwater Modeling

The groundwater flow system at Rocky Mountain Arsenal (RMA) is complex. To evaluate proposed remedial alternatives, interaction of the local groundwater flow system with the present contamination control systems must be understood. The purpose of this modeling effort is to provide a tool for evaluation and relative comparison of groundwater remedial alternatives. The model provides a method to assess the local groundwater impact of each remedial alternative. Results from the modeling effort will be used to compare the preliminary design of various remedial alternatives, and to allow general modification and reconfiguration of those designs to optimize their performance as part of the Detailed Analysis of Alternatives (DAA) of the Feasibility Study (FS).

General Description of Model Area

The RMA is located in Commerce City, Colorado, and is shown in Figure 1. The model boundary is defined in bold outline in Figure 2 and encompasses approximately 3.6 square miles. Portions of the north and west boundaries of the model coincide with the North Boundary Containment Treatment System (NBCTS) and the Northwest Boundary Containment System (NWBCS), respectively.

Groundwater movement in the study area is difficult to predict. Most groundwater flow occurs within alluvial and eolian deposits, which are referred to as "alluvium" in this report. Underlying the alluvium is the Denver Fm, which generally consists of sands, silts and clays, and is commonly less permeable than the alluvium. In parts of the study area, the alluvium is unsaturated. The water table occurs within the upper portion of the Denver Fm in areas of unsaturated alluvium.

The direction of groundwater movement within the model area is generally from southeast to northwest. This natural flow direction is influenced by contamination control systems within the model domain. There are some permeable Denver sands in direct hydraulic connection with the shallow alluvium within the model area. These Denver sands provide sources of water that affect the groundwater flow. Conceptually, some of these areas of subcropping Denver sands act as localized or point sources for the overall water budget for the

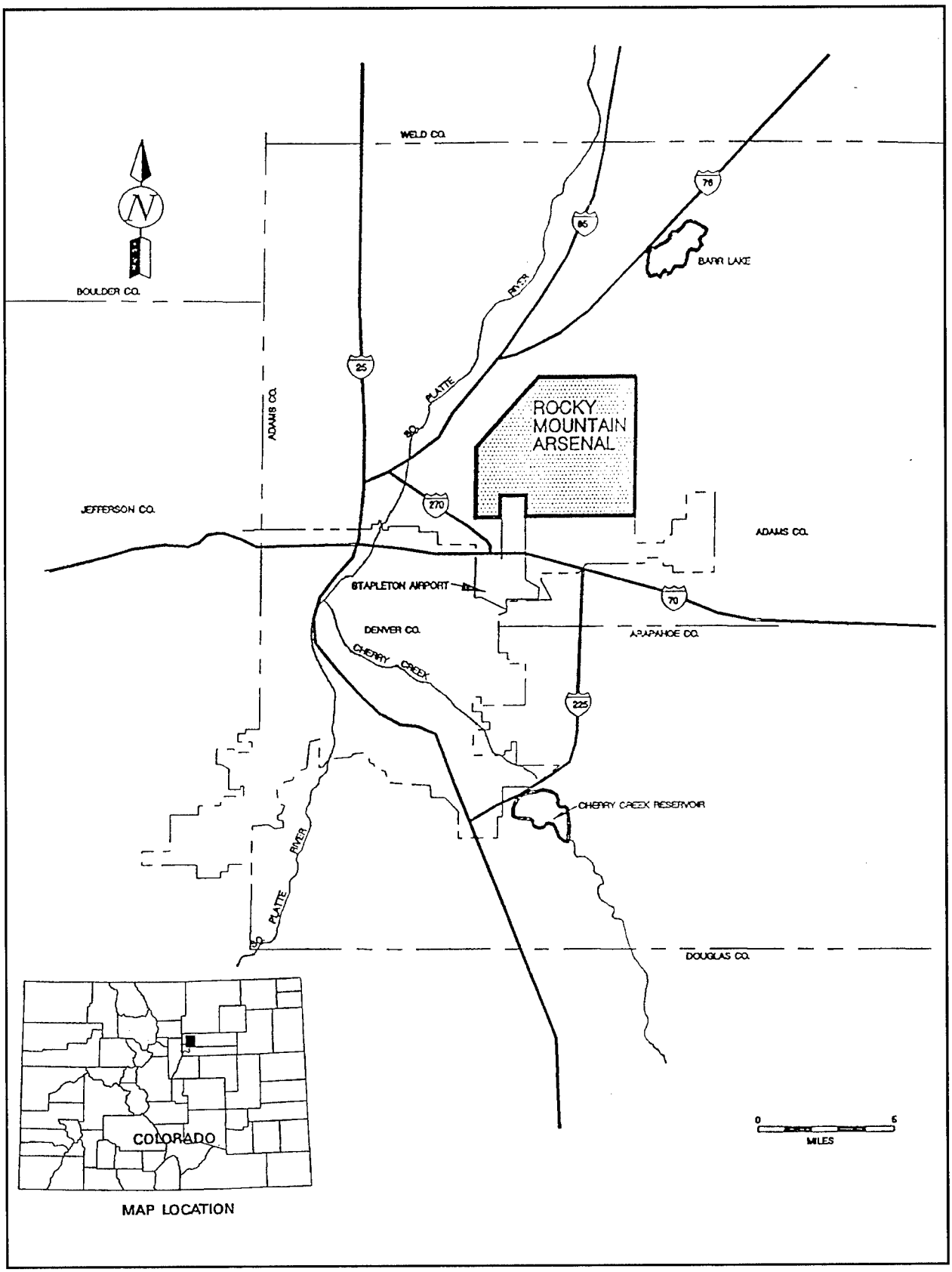


Figure 1. Rocky Mountain Arsenal location map

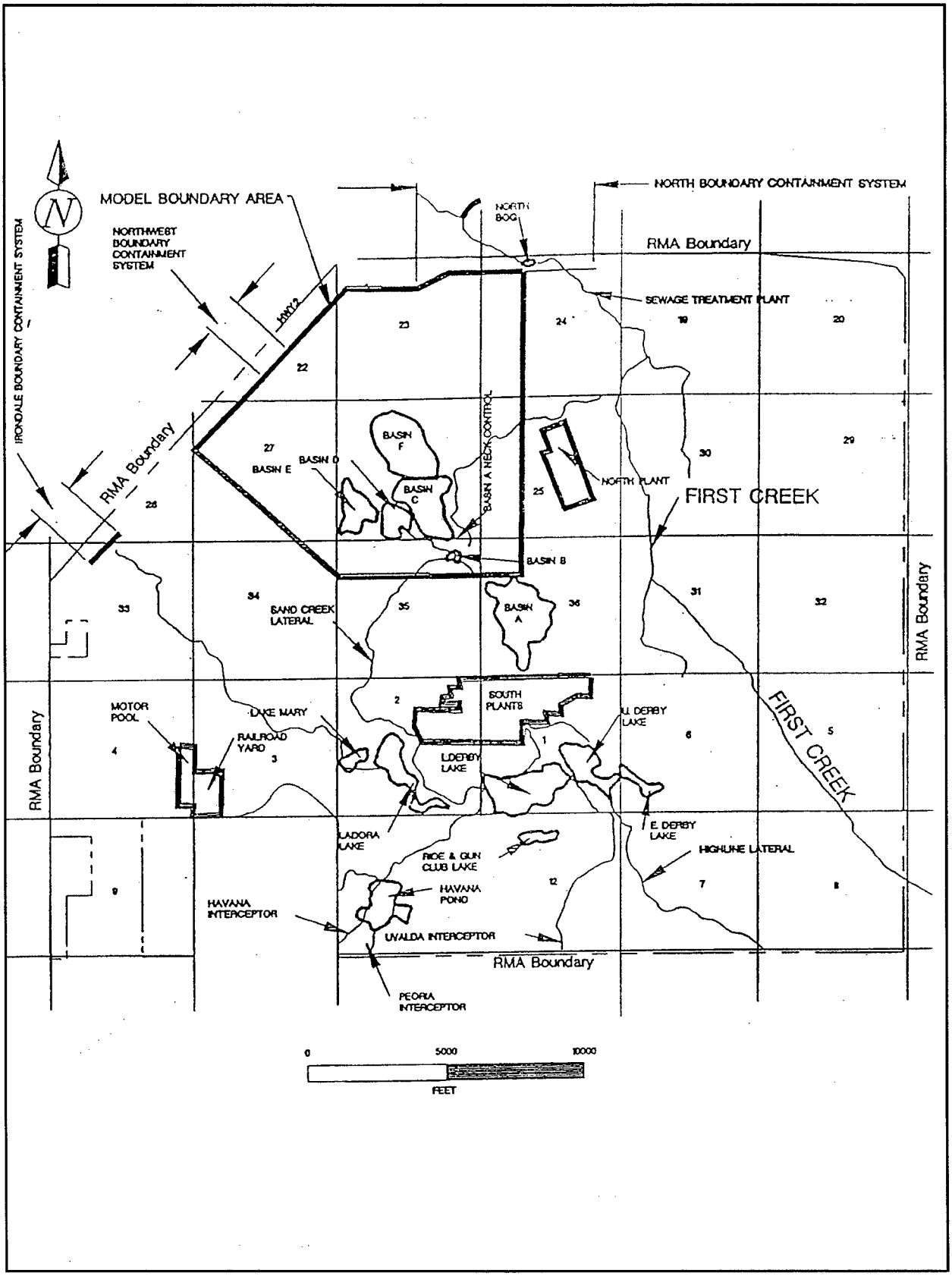


Figure 2. Model boundary area

modeled area. Infiltration from man-made basins and recharge from precipitation are other sources of water influencing groundwater flow within the model area.

Modeling Objectives

Specific objectives of the modeling effort were developed based on the FS modeling needs established by RMA. The objectives of the modeling effort as described by the U.S. Army Program Manager for RMA are as follows:

a. Represent the unconfined flow system (UFS), which is composed of saturated alluvium and upper Denver Fm, as individual geologic layers through the saturated portion.

b. Represent equivalent realistic conditions, in terms of groundwater elevations and flux, such that at steady-state calibration, hydraulic heads are within plus-or-minus 3 ft of observed conditions for 90 percent of boundary nodes.

c. Calibrate the model so that 95 percent of the simulated heads for observation wells are within plus-or-minus 3 ft of observed values.

d. Reproduce the general form and location of areas of unsaturated alluvium by model simulations.

e. Grid the model with sufficient detail to allow adequate representation of closely-spaced wells, trenches and/or low-permeability barriers, for the simulation of groundwater control alternatives that incorporate such features. The model's grid must be of such detail that the finite elements that represent Basins C and F are no more than 100 ft across in the direction perpendicular to the perimeter of the basins.

f. Incorporate particle-tracking capability into the model to allow the delineation of flow lines and to enable evaluation of groundwater control alternatives by particle capture.

g. Provide sufficient documentation to allow review and evaluation of the model code, parameters used in the model, model setup and calibration, sensitivity analysis, calibration criteria, and results.

Objectives are used to assist in defining the goals and associated scope of work of the modeling effort and address the need for modeling during the DAA of the FS, which requires comparison of remedial alternatives that have been retained. Objectives also allow for some flexibility in the analysis, such as combination or addition of remedial alternatives during subsequent phases of the FS.

Approach

To accomplish the modeling objectives, a numerical groundwater flow model of the study area was developed to represent the conceptual model of the groundwater system which has evolved from previous studies. The degree of complexity of the model is the minimum level required to incorporate available data and accomplish the modeling objectives.

The modeled area (Figure 2) was selected for the following reasons:

a. The proposed remedial alternatives are centered within the selected model area.

b. The model objectives require a detailed analysis of groundwater movement near Basins C and F.

c. Three containment systems, two of which are boundaries of the model area, are located in the study area. These containment systems provide current data on the quantity of groundwater being exchanged through the aquifer at these systems.

d. The model overlaps with previously developed models; the North Boundary Model to the north and the South Plants/Basin A Model to the south. This overlap allows comparison of model data and results. Part of the modeled area overlaps an area modeled during reevaluation of the NBCTS Interim Response Action (IRA) improvement study.

Data used for the initial model runs were obtained from existing data approved by RMA. Data sources include officially released reports, RMA's established database, and other IRAs and modeling activities. The official data base for RMA is maintained by DP Associates, Inc.

The groundwater flow system in the study area is assumed to exist in a "steady state" or "dynamic equilibrium" for a steady-state calibration. The assumption of steady-state flow conditions was also made by Warner (1979), Earth Technology Corporation (ERTEC) (1982), Morrison-Knudsen Engineers (MKE) (1989), and Harding Lawson Associates (HLA et al.) (1990).

This modeling effort accounts for groundwater flow in the upper Denver Fm. This approach differs from the majority of previous modeling efforts, which treat unsaturated alluvium areas as impermeable and do not address flow in the Denver Fm. Exchange of groundwater between the alluvium and the Denver Fm sands, basins, and precipitation infiltration is handled by areal inputs.

The model was calibrated by applying the existing concepts of flow in the modeled area to reproduce known water levels, groundwater discharge and recharge, and the flux through the aquifer system and across boundaries.

It is the intent of this modeling effort to incorporate all current pertinent hydrogeologic data into the model. Corrections to the RMA database and data from other ongoing modeling activities were incorporated when possible.

Model Selection and Applicability

The selection of the model was based on the following considerations:

a. The model should be based on existing Colorado State University (CSU) computer code because the model area overlapped areas to the north and northwest previously modeled using CSU code.

b. The model must have the ability to represent groundwater heads and flux through the UFS allowing for representation of flux across the bottom and side boundaries. Inflow to the UFS from the Denver Fm or outflow from the UFS to the Denver Fm was represented as localized sources or sinks.

c. The model must have the capability to represent local aquifer hydraulic properties that may vary as a function of groundwater elevations and aquifer saturated thickness.

d. The model must contain adequate particle-tracking capability to allow the introduction and representation of unretarded, nondegrading particles within the model domain.

e. The model must have the ability to meet each of the stated objectives.

The model selected is a single-layer, two-dimensional horizontal finite element model (GW Flow) developed by CSU. A copy of the computer code for the model is provided in Appendix A. The CSU model has the ability to adequately simulate the complex flow system and was selected for its ability to represent local aquifer hydraulic properties that may vary as a function of groundwater elevations and aquifer saturated thickness. This allows the model to simulate groundwater extraction, recharge, and flushing alternatives, which may result in substantial changes in water-table elevations and in aquifer saturated thickness.

The assumptions involved in using this groundwater flow model include:

a. The movement of ground water through the aquifer is described by Darcy's Law.

b. The aquifer flow system can be adequately simulated as a single-layer, two-dimensional horizontal areal flow system.

c. The transmissivity of the UFS at any point is equivalent to the sum of the transmissivities of the saturated alluvium and the saturated upper Denver Fm.

d. Vertical flow between the UFS and the unweathered portions of the Denver Fm only occurs through Denver Fm sands in direct contact with the base of the alluvium.

2 Conceptual Model

Hydrogeology of the modeled area has been investigated extensively in past studies, which have examined both the local and regional aspects of the groundwater flow system. Previous studies provided a good conceptual picture of the hydrogeology for the area studied. The concept of the UFS for use in numerical modeling at RMA was formulated by Dr. James May and first used in the ERTEC model (1982). The Basin F Subregional Numerical Model is based on the conceptual model outline discussed in detail in the Revised Regional Groundwater Flow Model by HLA et al. 1990.

The major difference between the conceptualization used in the Revised Regional Groundwater Model and this subregional modeling effort is how the flow through the upper Denver Fm is modeled. The Basin F Subregional Conceptual Model allows for groundwater flow through the upper Denver Fm in areas of both saturated and unsaturated alluvium, whereas the Revised Regional Groundwater model only has flow through the upper Denver Fm in areas of unsaturated alluvium. This modeling effort has groundwater flow occurring through weathered Denver Fm bedrock throughout the entire study area. Other than the flow in the upper Denver Fm, the conceptualization of the Basin F subregional model is the same as that of the revised regional model. The following paragraphs discuss only the notable features of the conceptual model.

Unconfined Flow System

Unconsolidated alluvium is the uppermost water bearing unit within the model domain. The alluvium consists of alluvial fill, eolian sands and silts, glacial outwash, fluvial sands, gravel, silts, and clays (Ebasco et al. 1989b). The thickness of the alluvium is highly variable, ranging from 0 to approximately 80 ft (HLA et al. 1990). Thicker areas of alluvium are commonly found in numerous paleochannels that are incised into the Denver Fm. The materials in the paleochannels are coarser grained and more permeable than those in areas outside the channels (MKE 1987).

Underlying the alluvium throughout the study area is the Denver Fm, which consists of shales, sandstones, siltstones, claystones, low-grade coal, and lignite (May 1982, Ebasco et al. 1989b). The Denver Fm is referred to as bedrock in this report, and the interface between the Denver Fm and the alluvium is the bedrock surface. At locations where the water table lies below the bedrock

surface, the alluvium is unsaturated. The flow system in the model area is conceptualized as a two-dimensional unconfined flow system as shown in Figure 3. The base of the UFS is interpreted as always being below the bedrock surface. Theoretically, the base of the UFS is defined as the elevation where the potentiometric head in the Denver Fm and the water table in nearby alluvial material coincide.

The UFS flow through the model area is under unconfined conditions. Deeper water-bearing zones in the same area may be confined or semi-confined. The groundwater moves through the saturated alluvium and through the weathered upper Denver Fm. The majority of flow through the upper Denver Fm of the UFS is in areas of unsaturated alluvium. It is in these areas that more severe oxidation and weathering would most likely occur. Therefore, shallow groundwater flow occurs within a single UFS that consists of alluvium and the upper Denver Fm.

Sinks and Sources

The UFS within the model domain is affected by any water exchange to or from the system. Therefore, it is important to understand the relationship between the groundwater within the UFS and any activity that adds or removes water from the UFS.

Water exchange within the UFS is characterized by all significant activities that recharge water to the UFS (sources) or remove water from the UFS (sinks). The following factors were considered as sources of water exchange for this study: (1) infiltration from basins, (2) infiltration of precipitation, (3) groundwater flow from Denver Fm sands into the UFS, (4) groundwater pumping and injection, and (5) boundary flow. A detailed analysis of each water-exchange activity will be made and discussed in subsequent parts of this report. Although downward gradients are common in the modeled area, the low permeability associated with most of the Denver Fm seems to prohibit significant downward movement of water. Water flows into the weathered Denver Fm and then flows laterally, reentering the alluvium at a lower elevation.

Summary

Groundwater flow of the model area is conceptualized as a two-layered UFS consisting of alluvium and upper Denver Fm. The groundwater flow system is affected by water exchange involving surface-water bodies, precipitation, flows from the Denver Fm, groundwater pumping and injection, and boundary flow.

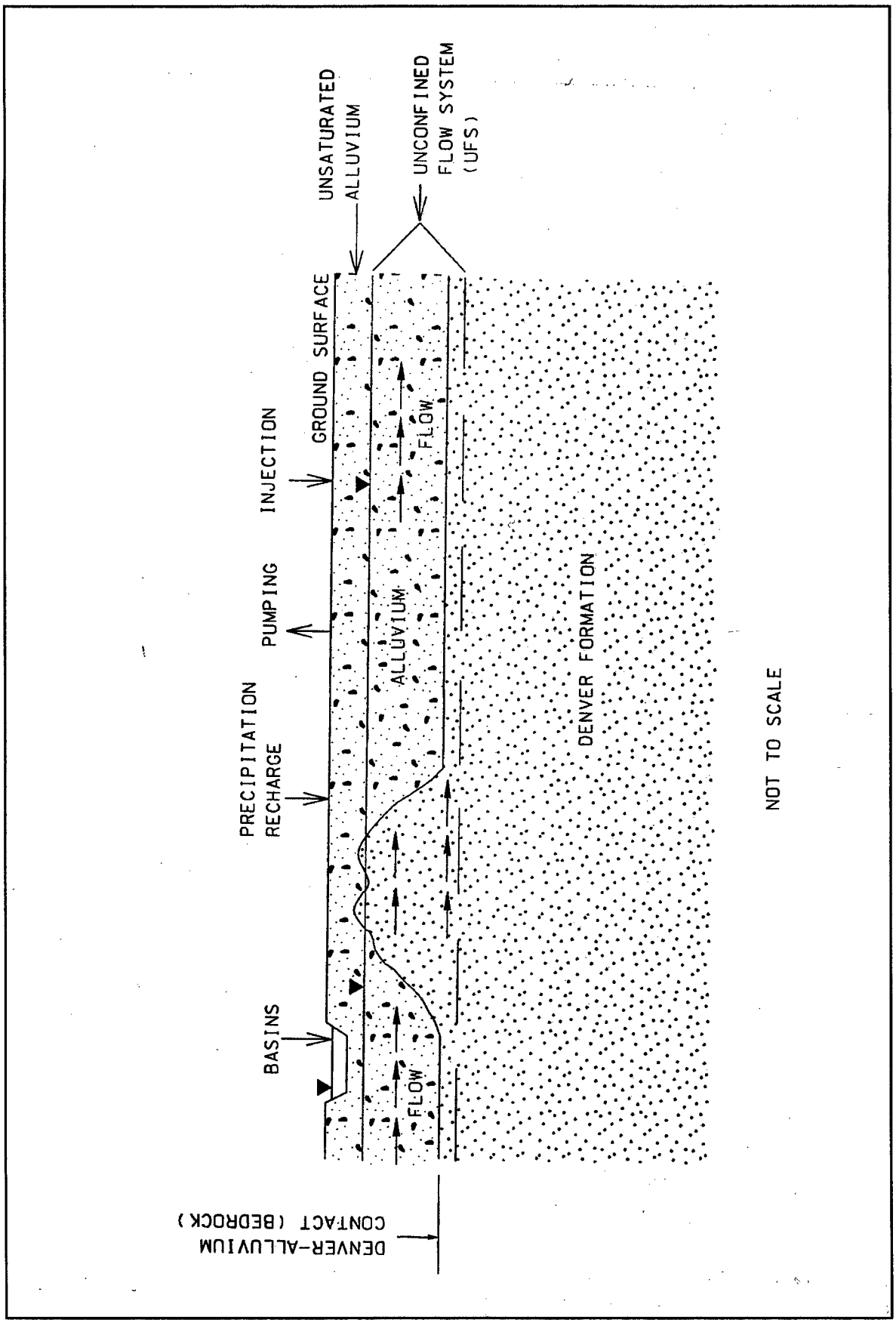


Figure 3. Conceptual model

3 Modeling Procedure

Numerical Model

The numerical model used in this study analyzes two-dimensional horizontal movement of groundwater. The use of a two-dimensional areal model is justified because the dominant flow of groundwater and contaminants is areal and because downward-moving groundwater intersects low-permeability clay zones and moves back into the alluvium. Vertical movement of groundwater between the UFS and other aquifers is not simulated in this study except as recharge or discharge to the horizontal flow system.

The finite-element procedure used to model the groundwater flow system requires the discretization of the modeled area into discrete subregions called elements. The model allows for the modeled area to be divided into distinct areas which are formed as loops (Figure 4) using the mesh generator. Once an area is broken out as a loop, it can then be divided into as many elements as required. In this study, the discretization procedure resulted in a mesh of ten loops consisting of 6,466 triangular elements and 3,359 nodes (Figure 5). Figures 6 and 7 show an enlarged portion of the mesh with the element and node numbers. The mesh encompasses an area of 3.64 square miles. The shape and discretization level of the constructed mesh were governed by the following criteria:

a. A discretization level with sufficient detail to allow the adequate representation of closely spaced wells, trenches and/or low-permeability barriers for simulation of groundwater control system alternatives.

b. An adequate representation of the three contaminant control systems located on the boundaries of the model area.

c. A discretization level with sufficient detail to represent areas where rapid changes in groundwater levels exist.

d. A minimum number of total elements and nodes needed to accomplish the objectives.

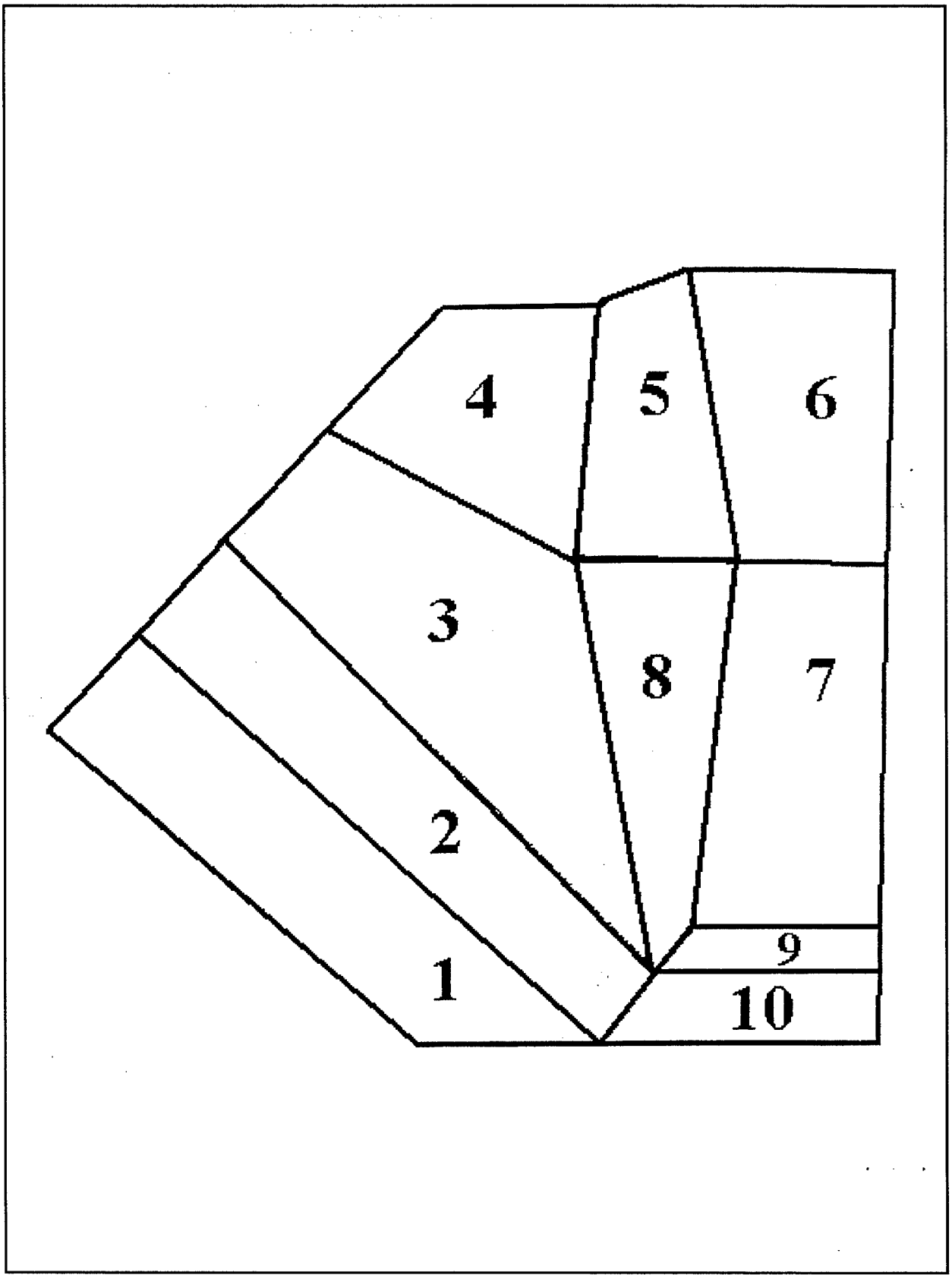


Figure 4. Mesh of ten loops

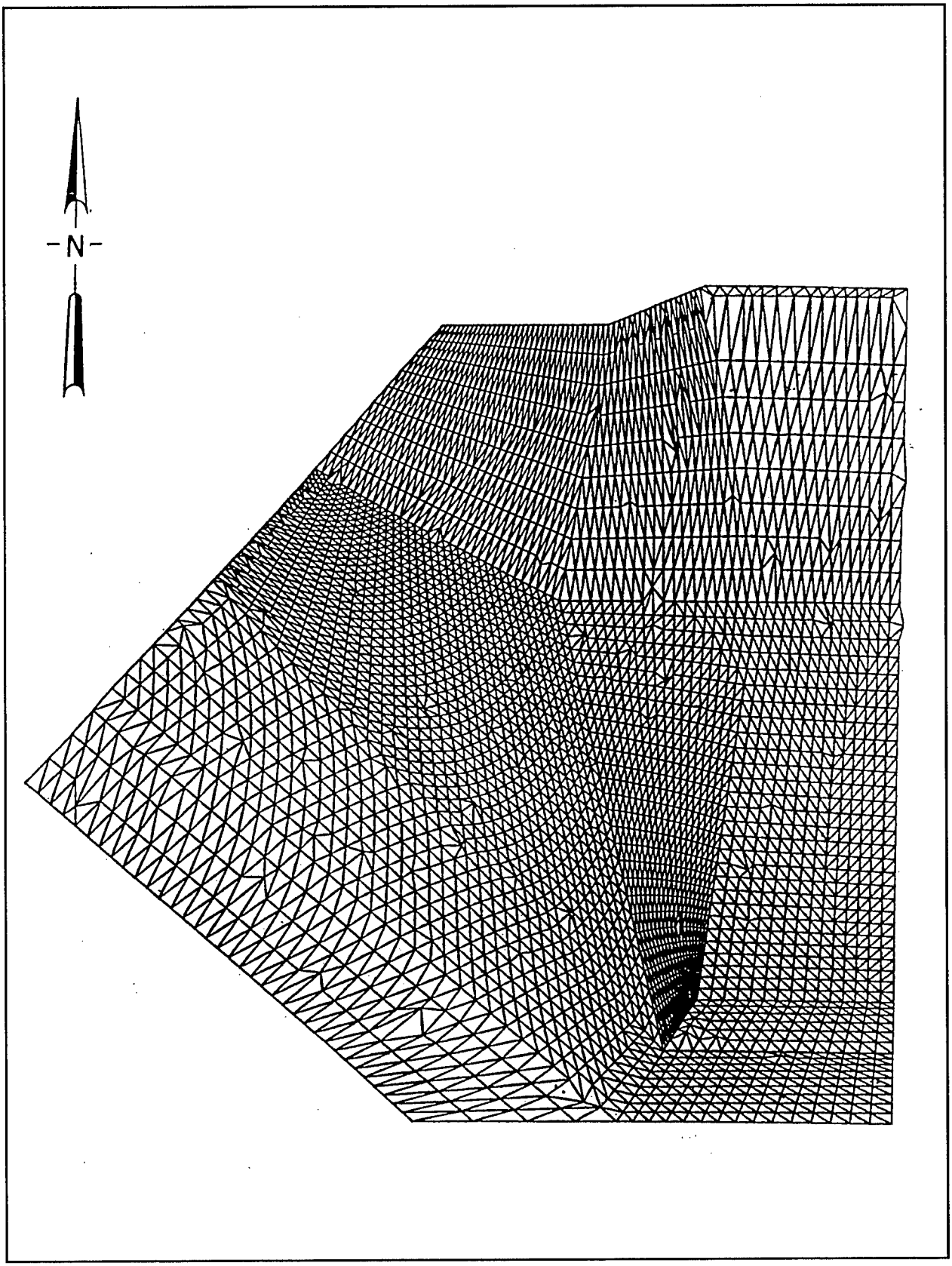


Figure 5. Finite element grid

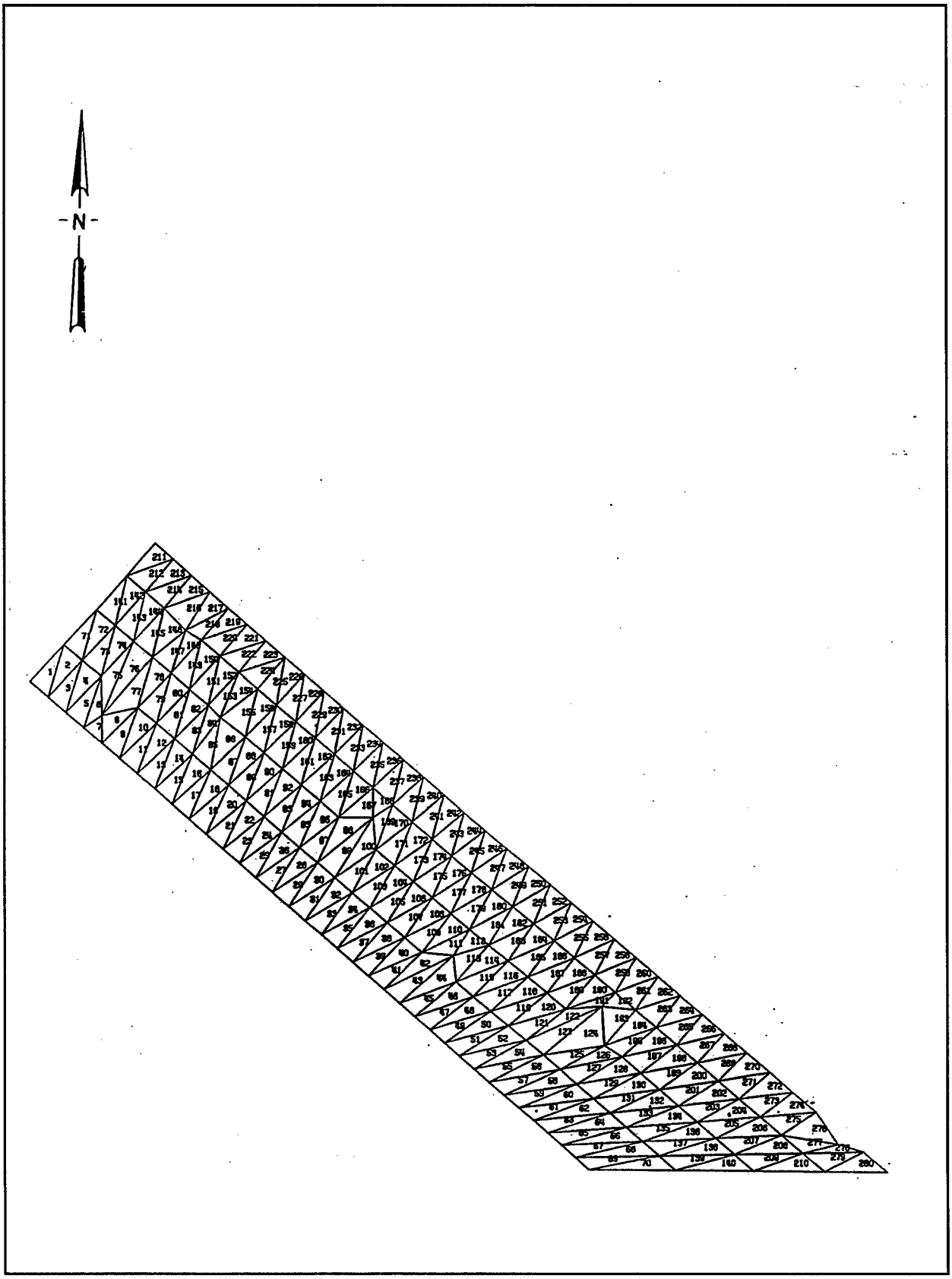


Figure 6. Grid element numbers

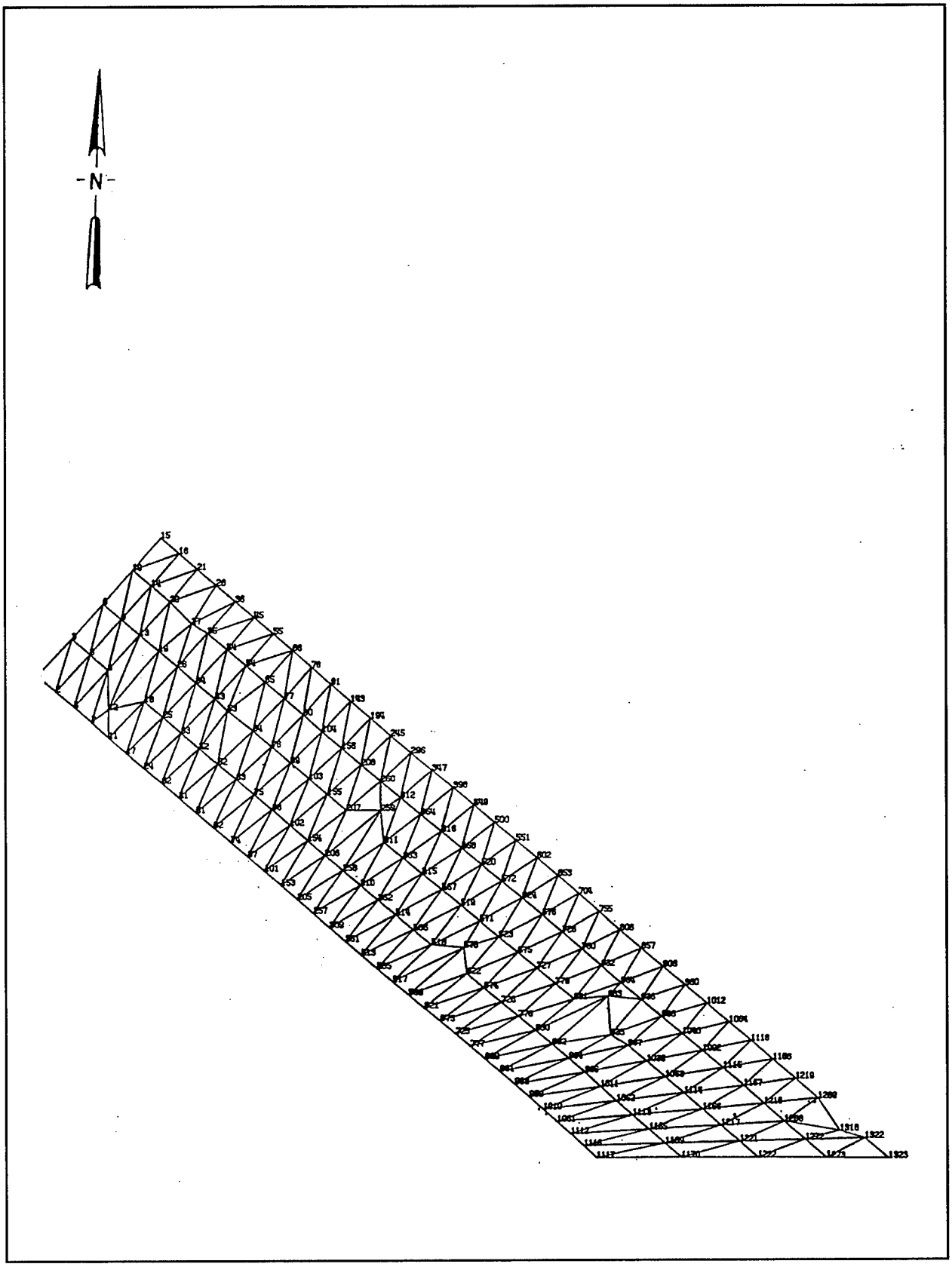


Figure 7. Grid node numbers

Model Inputs

For simulations, the CSU numerical model, GW Flow, requires input of parameters that characterize transmissive properties of the groundwater flow system and the fluxes that represent quantitative contributions to and losses from the groundwater flow system. As stated earlier, the initial input data used in this modeling effort were taken from technical reports officially released by the Program Manager's Office for Rocky Mountain Arsenal, and from the RMA official database.

The quantitative definition of the following types of information and parameters describing the groundwater flow system were required: (1) ground-surface elevations, (2) water-table elevations, (3) hydraulic conductivity, (4) spatial distribution of basin and precipitation infiltration, (5) groundwater pumping and injection, and (6) boundary conditions. Each of these component inputs is discussed in terms of the data used and the method used to assign values to nodal points/or elements within the model.

Ground-surface elevations

The ground-surface elevations were taken from the official RMA data base. The elevation of the bedrock surface and the base of the UFS were taken from the 1989 Final Water Remedial Investigation Report (FWRIR) released by RMA and prepared by Ebasco. Contour maps of bedrock elevation and base of UFS elevation in the study area were prepared as part of the FWRIR (Plates 7 and 14, Ebasco et al. 1989b). Contour maps of each surface were digitized to produce a numerical data file in the form of X coordinate, Y coordinate, and surface elevation Z at each X and Y. The procedure produced an X, Y, and Z value for each point within the digitized area at 75 ft intervals. The X, Y, Z data file representing each surface elevation was used as input for the portion of the CSU code that generates the data file required for model simulation. To generate this data file, the model applies an internal inverse distance routine to each X, Y, Z data file to determine a Z value (surface elevation) at each node location within the model domain. The resulting data file consisted of the surface elevation at each node. Additional data approved by RMA and obtained from other agencies, activities, and modeling efforts were also incorporated into the data files. Data files representing the ground surface, bedrock surface, and base of UFS surface were used as input to the model for steady-state calibration. Elevation contour maps of the ground surface, bedrock surface, and UFS base surface used for calibration are shown in Figures 8, 9, and 10, respectively.

Water-table elevations

Water-table elevations used to represent the observed steady-state flow field are based on the summer 1990 water-table elevation contour map of the UFS taken from the Comprehensive Monitoring Program's Annual Ground Water Report for 1990 (Figure 4.1-4, Stollar & Assoc. et al. 1990). The contour map of summer 1990 water-table elevation is based on hydraulic head data collected from monitoring wells, and on estimates and interpretations of the hydraulic

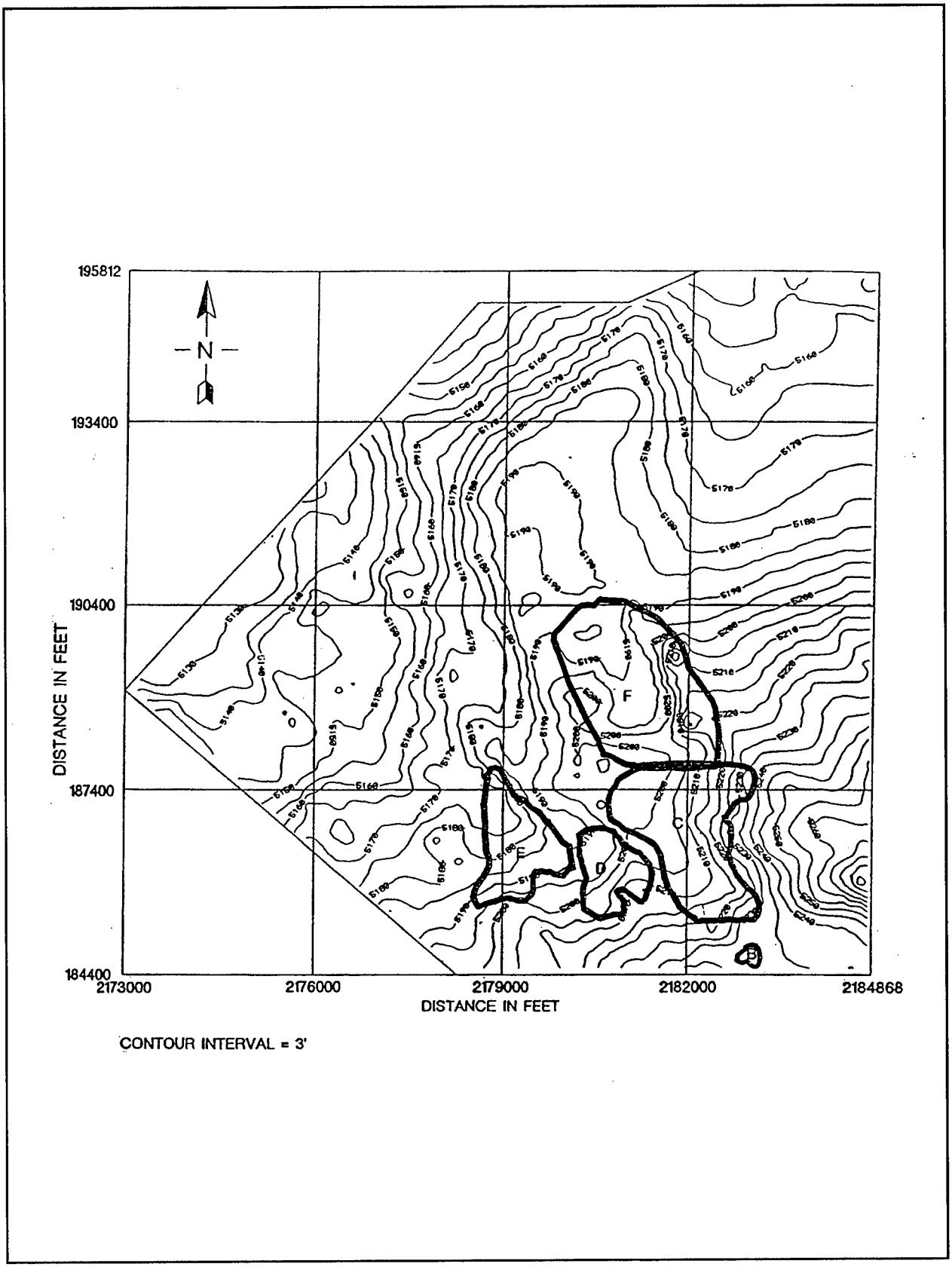


Figure 8. Ground surface elevation

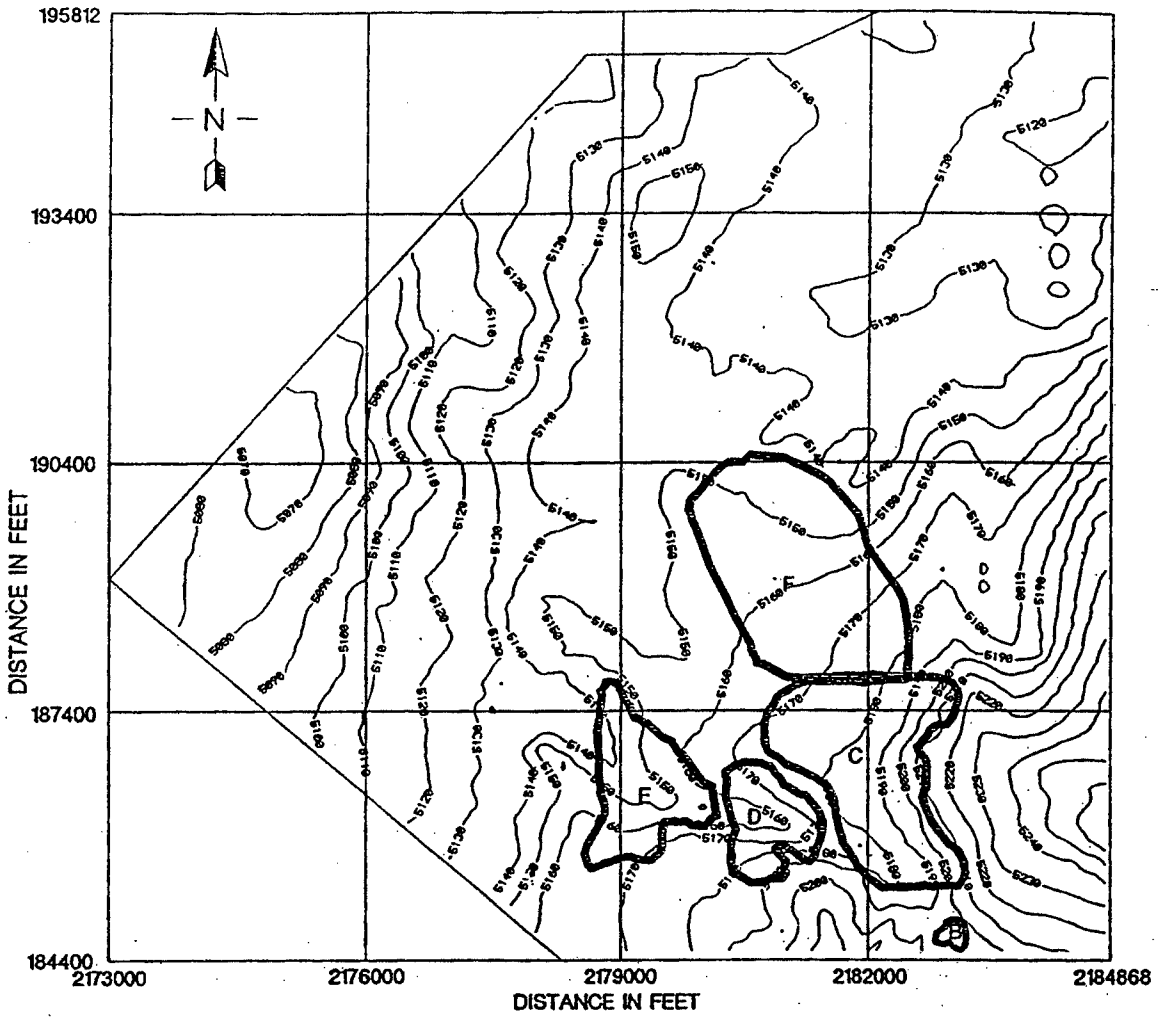


Figure 9. Bedrock surface elevation

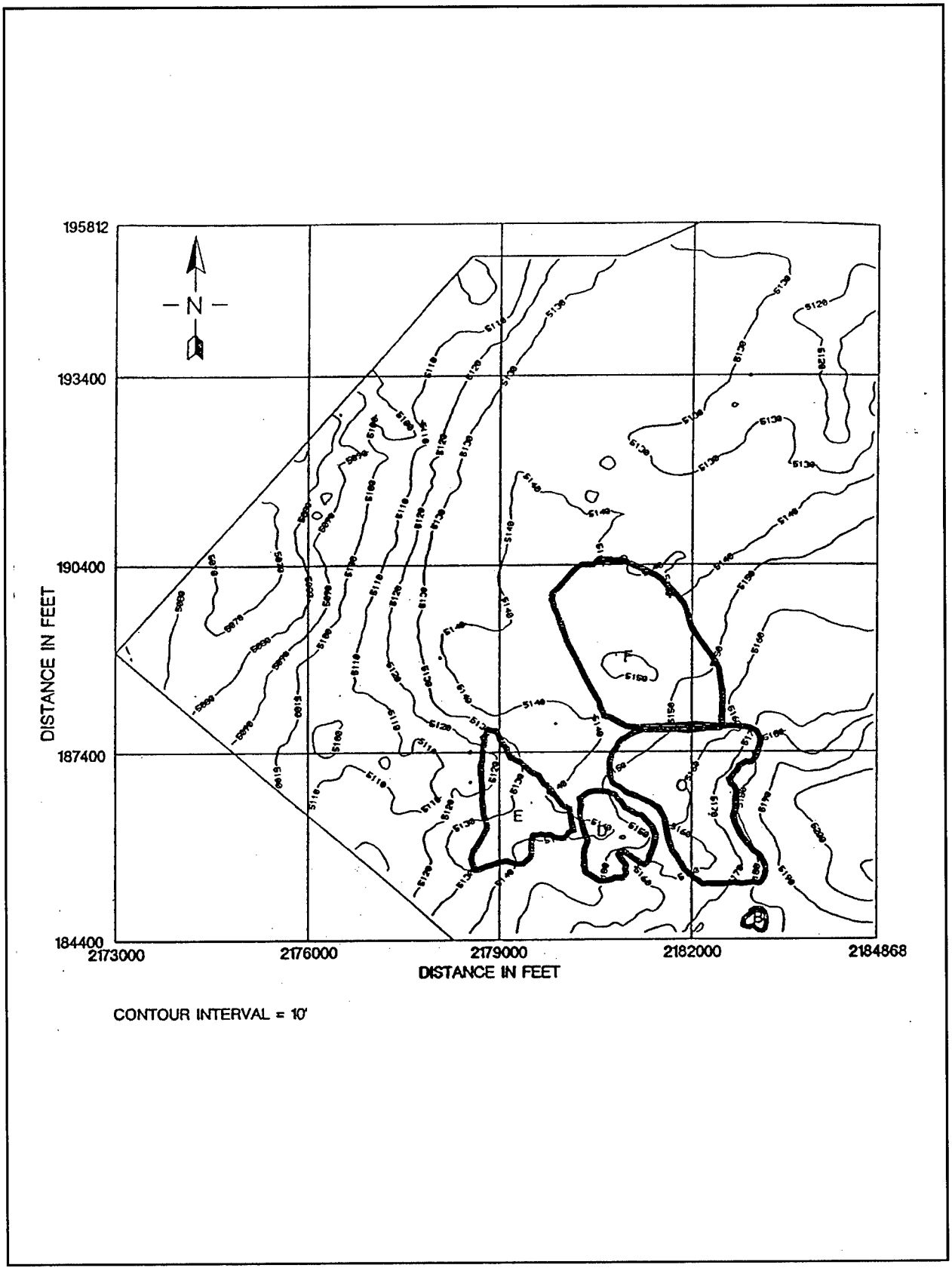


Figure 10. UFS base elevation

head made from hydrogeologic data. Because the map is interpretive, the model steady-state calibration is based primarily on observed hydraulic heads from monitoring wells. Hydraulic heads from 74 monitoring wells were selected as the basis for model calibration. Wells were selected because they did not exhibit highly variable head changes over a 5-year period or any other signs that would indicate poor well construction. Locations of observation wells used for calibration are shown in Figure 11.

The summer 1990 water-table contour map was digitized to generate the X, Y, Z data file needed to produce the data file used for model calibration. The same process used to produce model input data files for the surface elevations was taken to produce the water-table elevation input data file used as the basis for model calibration. A contour map of the water-table elevation data file used to model steady-state calibration is shown in Figure 12. The map indicates that the prevailing flow direction in the shallow groundwater is from southeast to northwest.

The summer 1990 water levels were taken as the basis for model steady-state calibration. Calibration of the model is based on the model's ability to accurately reproduce the observed water levels. The use of 1990 water levels as the basis for steady-state calibration is justified with the assumption that the water levels are in a state of dynamic equilibrium. The summer 1990 water levels were used because they were the most complete set of water levels available at the start of this modeling effort.

Hydraulic conductivity

The CSU code simulates the UFS as one aquifer requiring two different hydraulic conductivities at each node. The alluvium portion of the UFS requires a hydraulic conductivity data file different from that of the upper Denver Fm portion of the UFS.

The hydraulic conductivity value assigned to each node for the initial model calibration run was determined from a map produced in the Final Water Remedial Investigation Report (FWRIR) (Plate 16, Ebasco et al. 1989).

The hydraulic conductivity map divides the model area into different zones based on boring logs, aquifer test analyses, and geologic interpretations of depositional materials. Different material classifications were used, each characterized by a representative hydraulic conductivity and a possible range of conductivity values.

A more detailed hydraulic conductivity zonation of the study area near the Northwest Boundary System was provided by Woodward-Clyde Federal Services. These additional data were produced from boring logs and seismic tests conducted as part of their Northwest Boundary System modeling effort. Based on this new data, modifications were made to the FWRIR conductivity zones in the area west of the North Boundary System. The hydraulic conductivity zones map representing the initial hydraulic conductivity of the study area is shown in Figure 13.

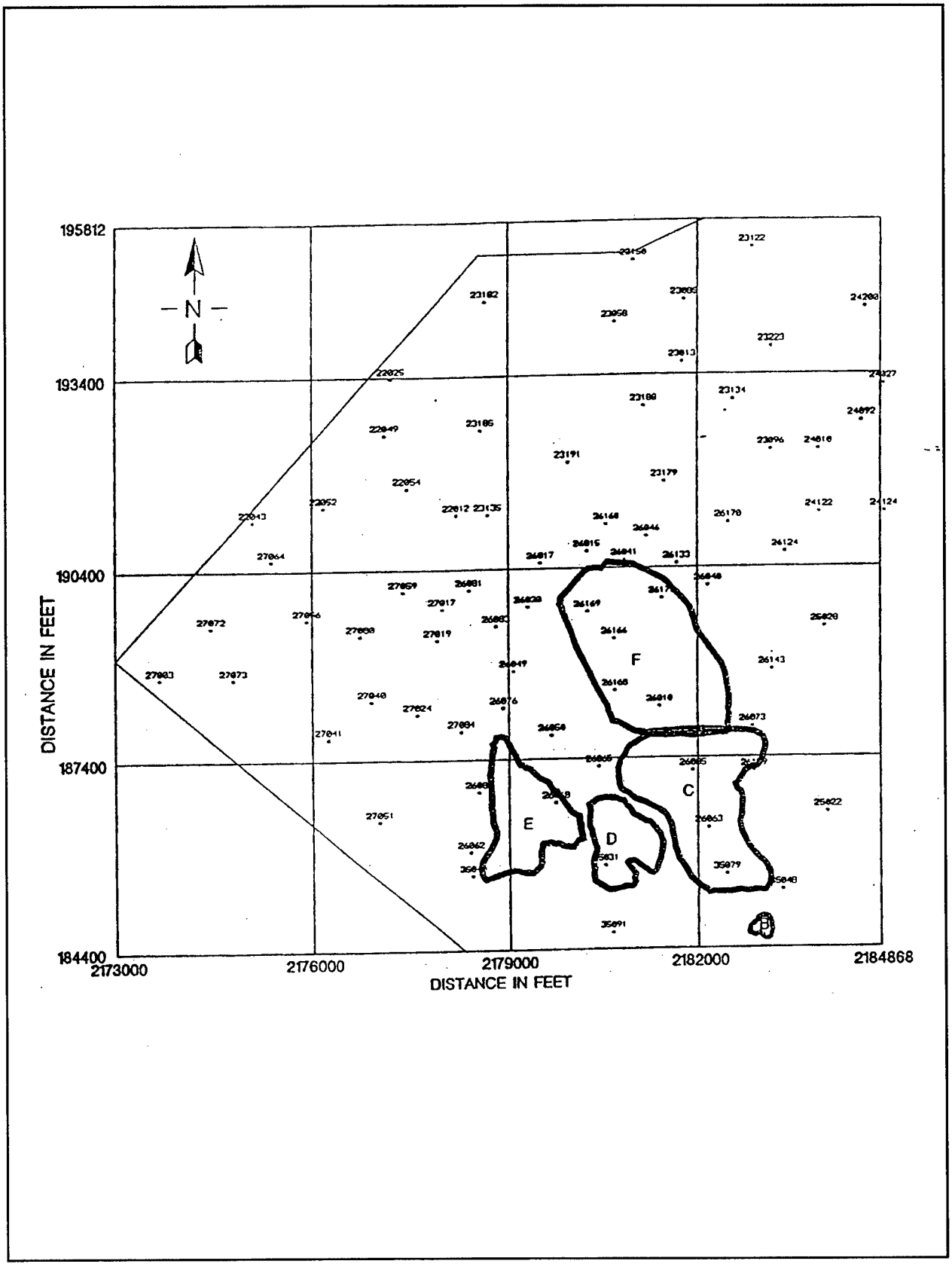


Figure 11. Calibration observation well

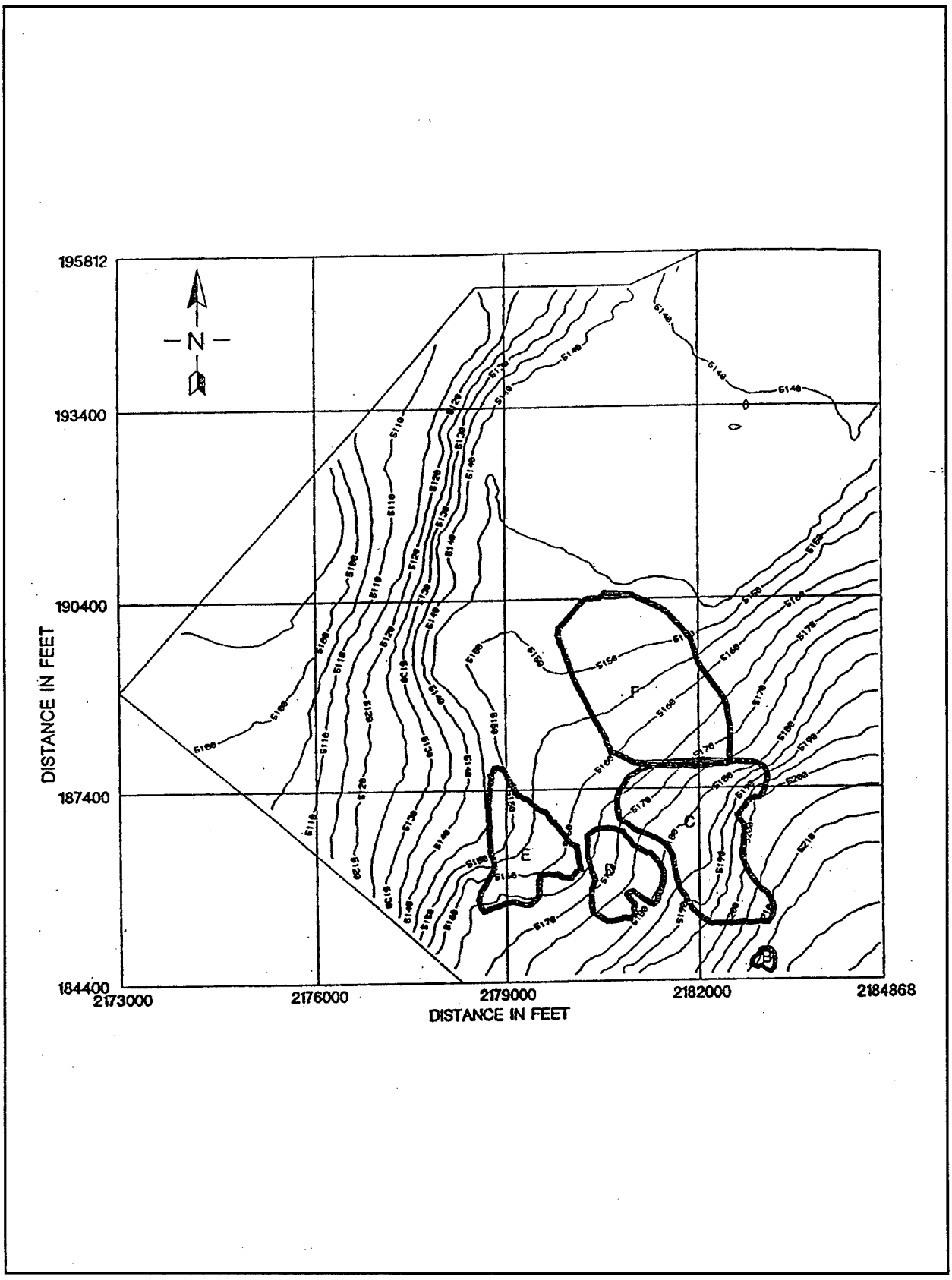


Figure 12. Summer 1990 water level elevation

The hydraulic conductivity map from the FWRIR (Plate 16, Ebasco et al. 1989) was digitized to produce a data file of X, Y, and Z coordinates consisting of hydraulic conductivity (Z values) representative of each material type on the map. The resulting data file represented known alluvium hydraulic conductivities (Z values) for specific X and Y coordinates. The X, Y, and Z data file was used by the inverse distance subroutine to determine the alluvium hydraulic conductivity at each node. The alluvium hydraulic conductivity used for calibration ranged from 2 to 1,500 ft/day.

The weathered upper Denver Fm hydraulic/conductivity data file was produced by initially assigning a constant hydraulic/conductivity value of 2.8 ft/day to the entire Denver Fm within the model area. This value was determined to be representative of the upper Denver Fm within the model area based on the hydraulic conductivity zone map produced in the FWRIR (Plate 16, Ebasco et al. 1989) and on the data produced by the Regional Groundwater Study of RMA (May 1982). The upper Denver Fm hydraulic conductivity of 2.8 ft/day is similar to the value of 3 ft/day used in the Revised Regional Groundwater Flow Model (HLA et al. 1990) in areas corresponding to the modeled area. Hydraulic conductivities ranging from 0.0014 to 283 ft/day within the Denver Fm were reported by MKE (1989). The Denver Fm hydraulic conductivities at calibration ranged from 0.1 to 14 ft/day. The variability in hydraulic conductivity values illustrates the uncertainties associated with the hydraulic conductivity of the upper Denver Fm.

The hydraulic conductivities and the saturated thickness of the UFS are required to produce the transmissivity of the UFS. The transmissivity of the UFS is the parameter required by the model and consists of the product of the hydraulic conductivity and the thickness of the material. The transmissivity for the UFS is the sum of the transmissivity of the alluvium and upper Denver Fm which is effectively a weighted average. The equation the model applies to determine the transmissivity at each node with saturated alluvium is shown in Figure 14.

A contour map of the resulting transmissivity distribution used for steady-state calibration is shown in Figure 15.

Spatial distribution of basin and precipitation infiltration

The recharge of water to the UFS is from precipitation infiltration, inflow from subcropping Denver Fm sands, and basin infiltration. Recharge to the UFS from these sources is represented by an areal flux. This areal flux is represented by applying a prescribed flux to the elements covering the desired area. Elements within the specific locations are assigned an identification code which is then used to apply the desired flux.

A percentage of precipitation moves beyond the root zone and ends up as recharge to the shallow unconfined aquifer. Estimates of the areal recharge of precipitation are variable. An infiltration study conducted by MKE in 1987 estimated an infiltration rate of 0.25 in. per year as a reasonable value for

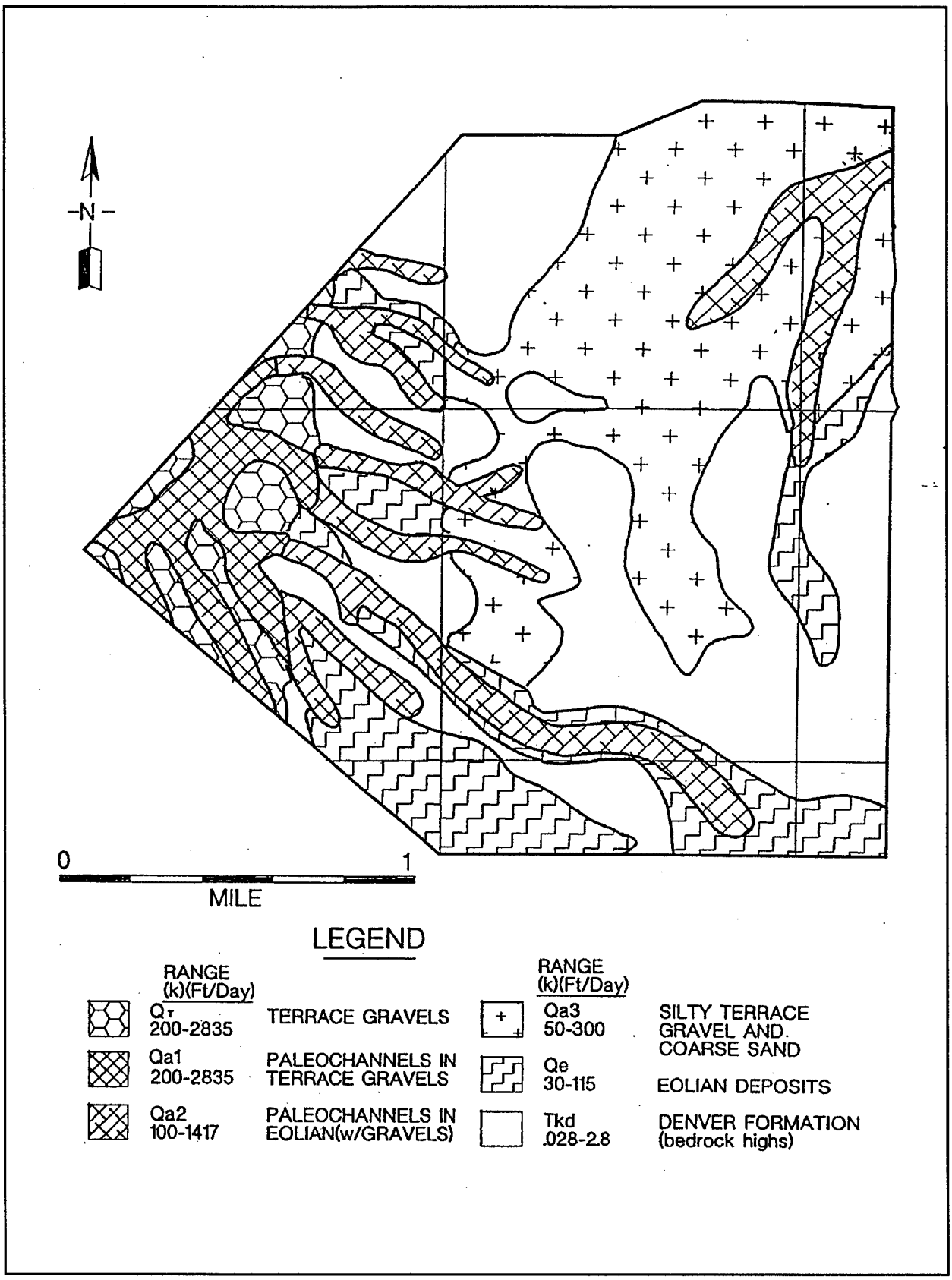


Figure 13. Hydraulic conductivity zone map

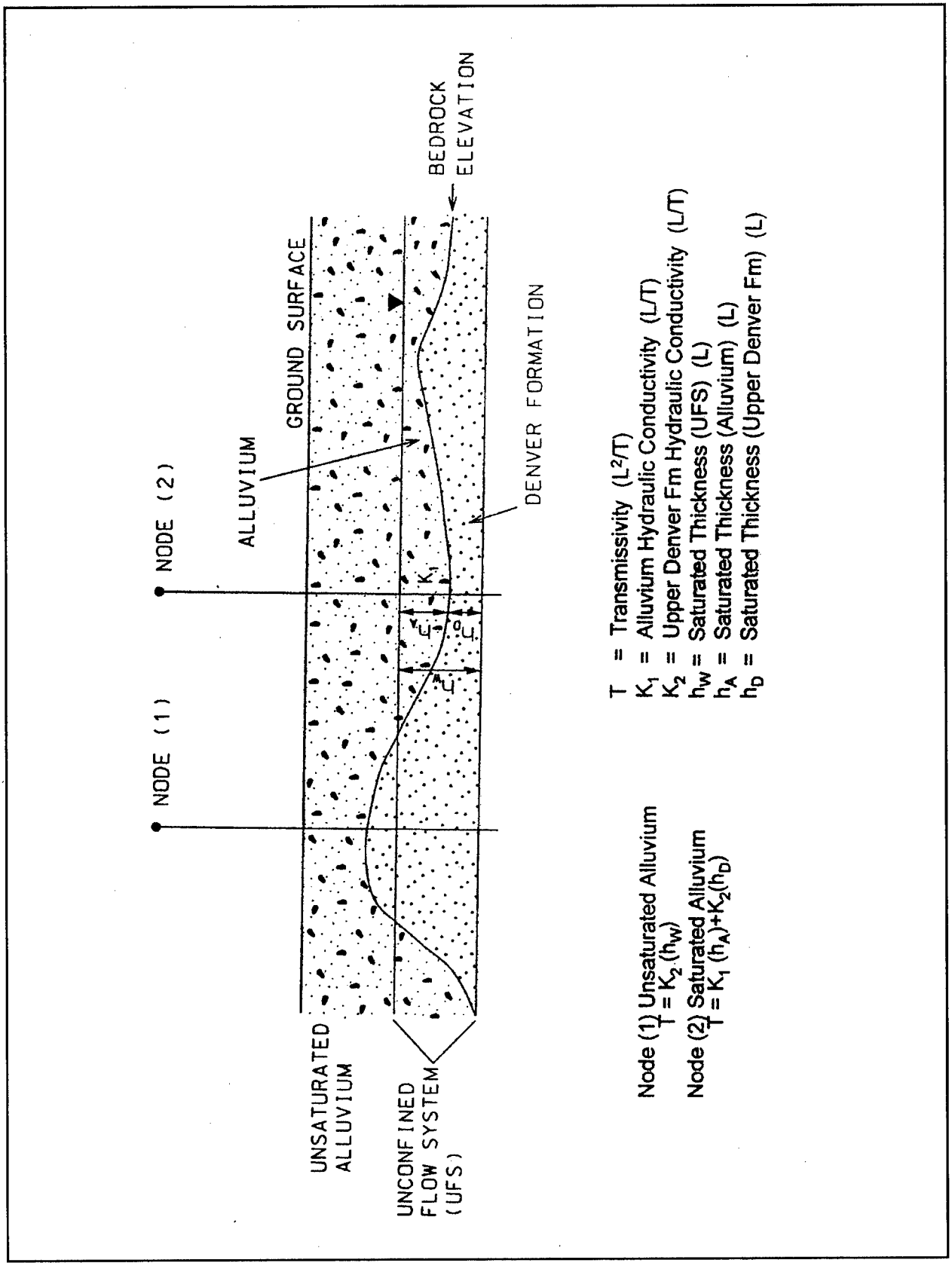


Figure 14. Equation for calculation of transmissivity

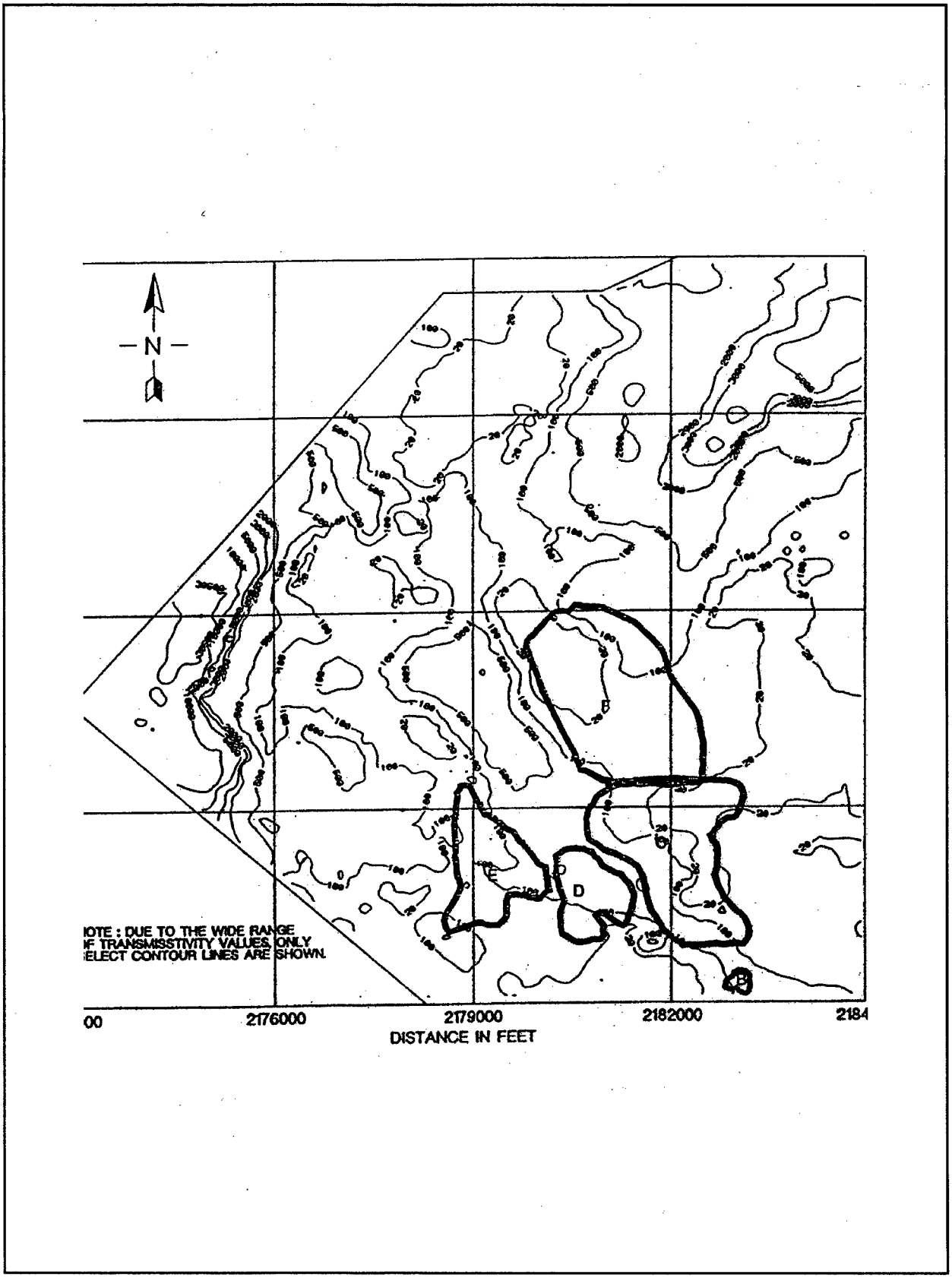


Figure 15. Model area transmissivity

vegetated areas at RMA. Other studies resulted in an estimated infiltration rate of 1.41 in. per year for similar conditions. For this modeling study an infiltration rate of 0.9 to 1.3 in. per year is applied to the model during steady-state calibration. The infiltration rate applied to the model domain is represented by an areal water flux of 0.0003 to 0.0002 ft/day/ft^2. Higher surface elevations have the rate of 0.0002 ft/day/ft^2, and lower surface elevations have the rate of 0.0003 ft/day/ft^2. This approach is consistent with the fact that lower surface elevations receive more precipitation runoff and have more infiltration. The surface elevation within the model domain slopes downward from east to west, and infiltration rates are applied accordingly. The water flux values are multiplied by the area of each element and applied over the model domain.

The second recharge source considered is from the basins within the model area. The infiltration recharge quantities from Basins B through F used for the initial calibration run were taken from the Revised Regional Model (HLA et al. 1990) and are summarized in Table 1. In order to improve the steady-state calibration, it was necessary to reduce the basin infiltration recharge rate within the model area to zero. The only recharge from these basins within the model area is from precipitation infiltration, which is consistent with the fact that the basins were no longer in use in 1990. Basin F has no precipitation infiltration recharge because the basin was lined before 1990. The infiltration associated with Basin F is collected as runoff and discharged. The Basin F runoff discharge rate is applied with the Denver sands recharge rate located near the basin.

Table 1
Basin Recharge Infiltration Rates

Recharge Basin	Area (acres)	Recharge (cfs)	Infiltration (ft/day)
B	1.77	0.006	0.006724
C	78	0.0	0.0
D	20	0.034	0.0033719
E	29.4	0.0	0.0
F	92.7	0.0	0.0

The third recharge source that was considered is the influx of water from the Denver Fm underlying the UFS. Interactions between the Denver Fm and the UFS is probably the least understood hydrogeologic process at RMA. The recharge of water to the UFS from the underlying bedrock subcropping sands is represented by an areal flux into the UFS. The locations of Denver Fm subcrops within the study area were identified from maps delineating subcrop areas for bedrock units underlying RMA (Plate 9, FWRIR, Ebasco et al. 1989). The major sand subcrops within the model domain which provide notable quantities of water into the UFS are shown in Figure 16.

The quantity of the prescribed flux from the Denver Fm sands into the UFS used for the initial calibration run was taken from the Revised Regional Groundwater Flow Model (HLA et al. 1990). The flux was changed as a calibration parameter during calibration. The flux calculated by the regional model that represents the total prescribed influx from the Denver Fm into the UFS for the

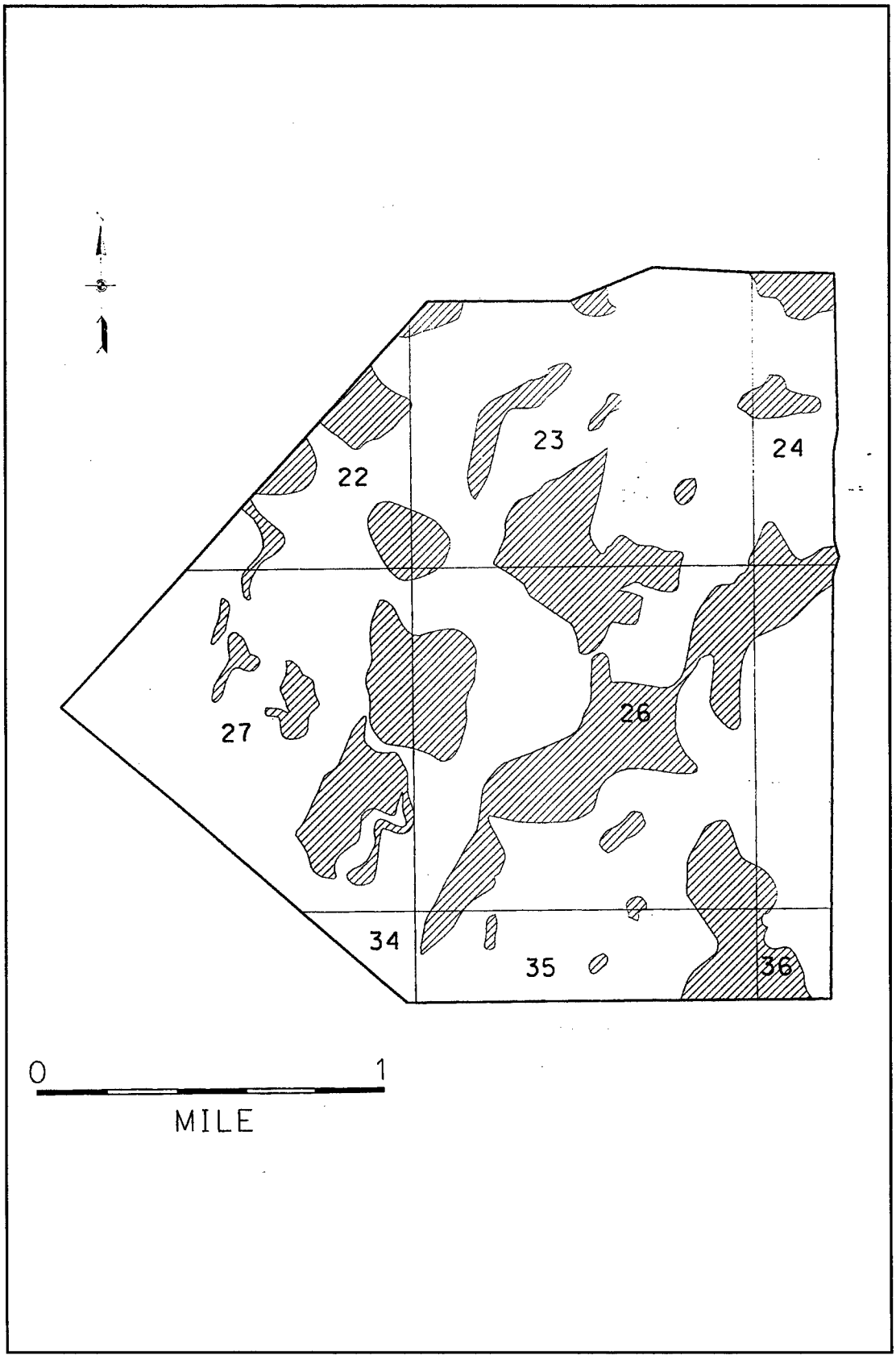


Figure 16. Denver sands subcrops

RMA was taken and equally distributed to the major sand subcrops within the RMA. The total computed inflow to the UFS within the RMA from Denver Fm sources is 0.427 cfs (191 gpm) (HLA et al. 1990). The Denver Fm sand subcrops located within the model domain represented 17 percent of the total RMA sand subcrops; an equivalent percentage of the total prescribed flux was calculated and applied to the sand subcrops for the initial calibration run.

The total inflow to the UFS within the model area from the Denver Fm used for the initial calibration run is 0.0726 cfs (32 gpm). The total inflow to the UFS from the Denver Fm subcropping sands applied in the steady-state calibration is 76 gpm.

Groundwater pumping and injection

There are three operational containment systems within the model domain currently pumping water from the UFS and/or injecting water into the UFS, the NBCTS, NWBCS, and the Basin A Neck Control System. As previously stated, the NWBCS and part of the NBCTS are boundaries of the model domain. The model domain includes pumping wells from the two systems, but the systems' injection wells are outside the model area. Thus these become discharge for the model. The entire Basin A Neck Control System is within the model domain; both the system's pumping and injections wells are represented as nodes within the model. Each well is assigned a nodal identification code, which in turn is assigned a recharge or discharge rate based on the operation of the system. The location of some system wells are too close together for the model grid; because of this some wells have the same identification code. The recharge/discharge rates for ID codes representing more than one well is the sum of the rates for each well. The slurry wall portion of the boundary systems was represented as no flow boundaries.

Well locations along with average pumping and injection rates for each system were taken from the RMA data base. Pumping rates used for model calibration are 85 gpm for the portion of the NBCTS within the model area, and 314 gpm for the NWBCS. The pumping/injection rates for the Basin A Neck System applied for calibration are 16.5 gpm. The well numbers and rates for NBCTS, NWBCS, and Basin A Neck containment system used for steady-state calibration are shown in Tables 2 through 4.

Boundary conditions

The CSU model allows four possible boundary conditions: No-Flow, Prescribed Flux, Constant Head, and General Head. The model boundary corresponding to the NBCTS and NWBCS low-permeability barriers are no-flow boundaries. All other model boundaries are Constant Head boundaries. Constant Head was the boundary condition that best represented the flow through each boundary node based on a constant head boundary condition; those computed fluxes were used to change the southern and western boundaries of the model to a prescribed flux. Boundary conditions resulting from model steady-state calibration consist of three boundary conditions as shown in Figure 17.

Table 2
North Boundary Containment System Pumping Rates for Steady-State Simulation

Well No.	Well ID Code	Rate (gpm)
23301	17	0.190
23302	18	3.762
23303	19	7.452
23304	20	1.794
23305	21	10.671
24306	22	16.546
24307	23	6.370
24308	24	4.401
24309	25	3.712
24310	26	4.728
24311	27	1.126
24312	28	4.421
24313	29	9.219
23330	11	0.002
23331	12	0.001
23332	13	4.401
23333	14	0.405
23334	15	4.356
23335	16	1.238

Table 3
Northwest Boundary Containment System Pumping Rates for Steady-State Simulation

Well No.	Well ID Code	Rate (gpm)
22301	41	122.00
22302	41	43.72
22303	40	3.23
22304	40	64.34
22305	39	51.84
22306	39	2.06
22307	38	90.98
22308	38	101.33
22309	37	3.78
22310	37	49.28
22311	30	0.03
22312	31	14.17
22313	32	6.72
22314	33	5.16
22315	34	22.34
22316	35	0.00
22317	36	0.00

Table 4
Basin A Neck Containment System Pumping/Recharge Rates for Steady-State Simulation

Discharge			Recharge[2]		
Well No.	Well ID Code	Rate (gpm)	Well No.	Well ID Code	Rate (gpm)
35301	42	0.104	46	Trench A	1.37
35302	43	2.656	47	Trench A	1.37
35303	44	2.132	48	Trench A	1.37
35304	42	1.995	49	Trench A	1.37
35305	43	5.530	50	Trench B	1.37
35306	44	1.368	51	Trench B	1.37
35307	44	0.681	52	Trench B	1.37
23311	45[1]	2.0	53	Trench B	1.37
			54	Trench C	1.37
			55	Trench C	1.37
			56	Trench C	1.37
			57	Trench C	1.37

[1] Basin F IRA discharge water is represented by ID Code 45.
[2] The system's recharge water is entered through the Basin A Neck recharge trench system. Each recharge trench is represented by a series of 4 wells.

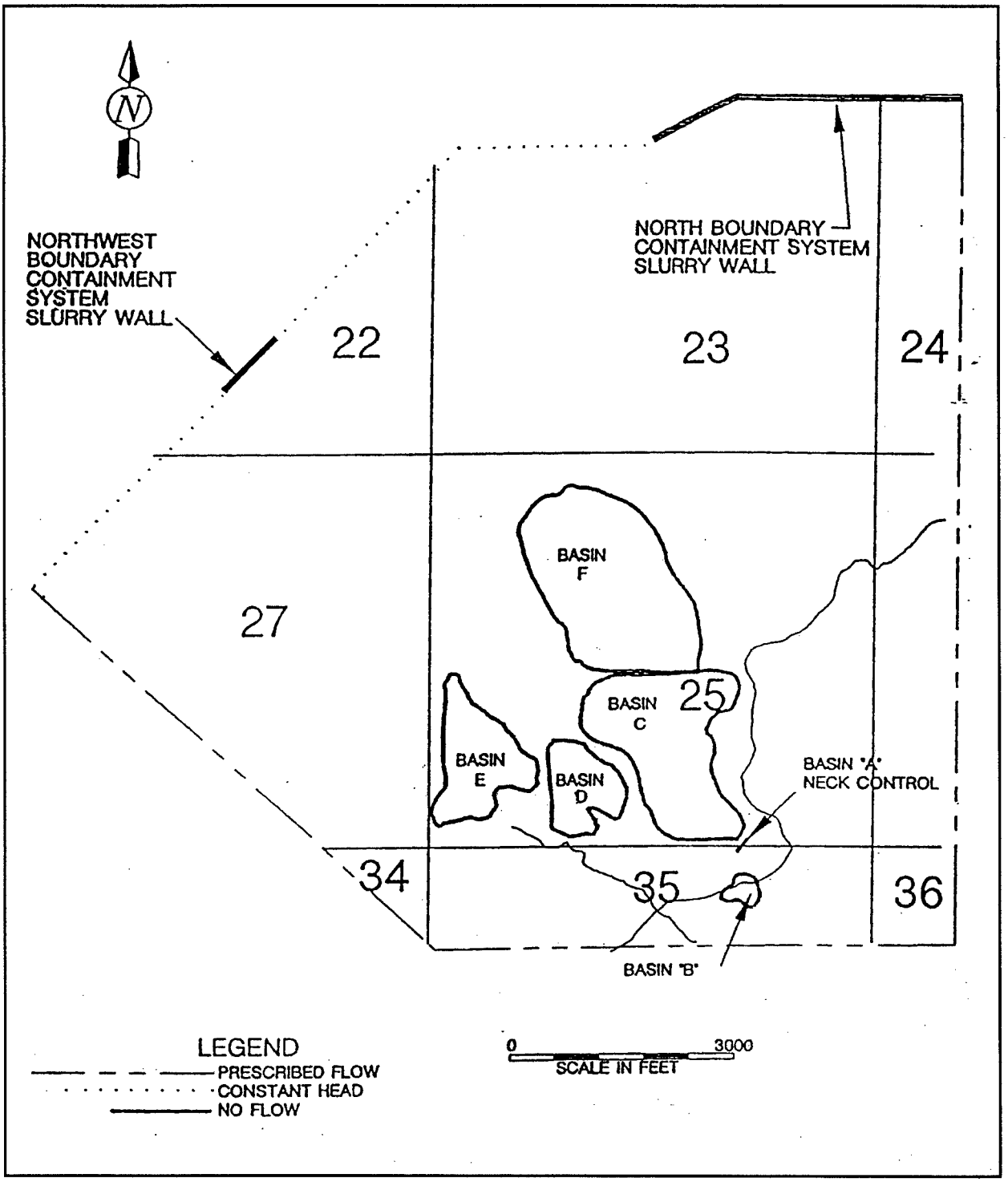


Figure 17. Model boundary conditions

4 Model Steady-State Calibration

The calibration procedure consists of adjusting model parameters so the model-computed water level elevations approximate as closely as possible measured and estimated values of water level elevations that were "observed." The parameter adjusted most during steady-state calibration of the model was hydraulic conductivity. Other parameters adjusted to a lesser degree were the prescribed inflows from the Denver Fm sand subcrops and the saturated thickness of the upper Denver Fm.

Some subareas within the model domain were subject to major changes in hydraulic conductivity during calibration. In an effort to improve model calibration, the saturated alluvium hydraulic conductivity in some areas was changed significantly from the initial values taken from the hydraulic conductivity zonation map. The alluvium nodal hydraulic conductivity used for steady-state calibration of the model is given in Figure 18.

The initial hydraulic conductivity of many major areas of saturated upper Denver Fm (bedrock highs) within the UFS was determined to be too low. Areas of saturated upper Denver Fm appeared to be more weathered than previously thought and, therefore, an increase in hydraulic conductivities was required to calibrate the model to the observed heads in areas of large bedrock highs. The largest hydraulic conductivity applied to areas of upper Denver Fm is 14 ft/day. This value may be considered high when compared with measured hydraulic conductivities for the Denver Fm (FWRIR, Ebasco et al. 1989b). The Regional Groundwater Study of RMA by May (1982) indicated that some areas of severely weathered upper Denver Fm may have hydraulic conductivities as high as 50 ft/day. This high variability in conductivity illustrates the uncertainty of flow parameters in the upper Denver Fm. The upper Denver Fm nodal hydraulic conductivity used for steady-state calibration of the model is given in Figure 19.

Changes in saturated thickness were made to the upper Denver Fm during calibration. The upper Denver Fm saturated thickness in some areas was subject to interpretation and consequently required adjustments. A study is currently being conducted to better determine the base of the UFS, which will affect the saturated thickness of the model area. The preliminary results of that study indicate that the base of the UFS is much lower than previously thought

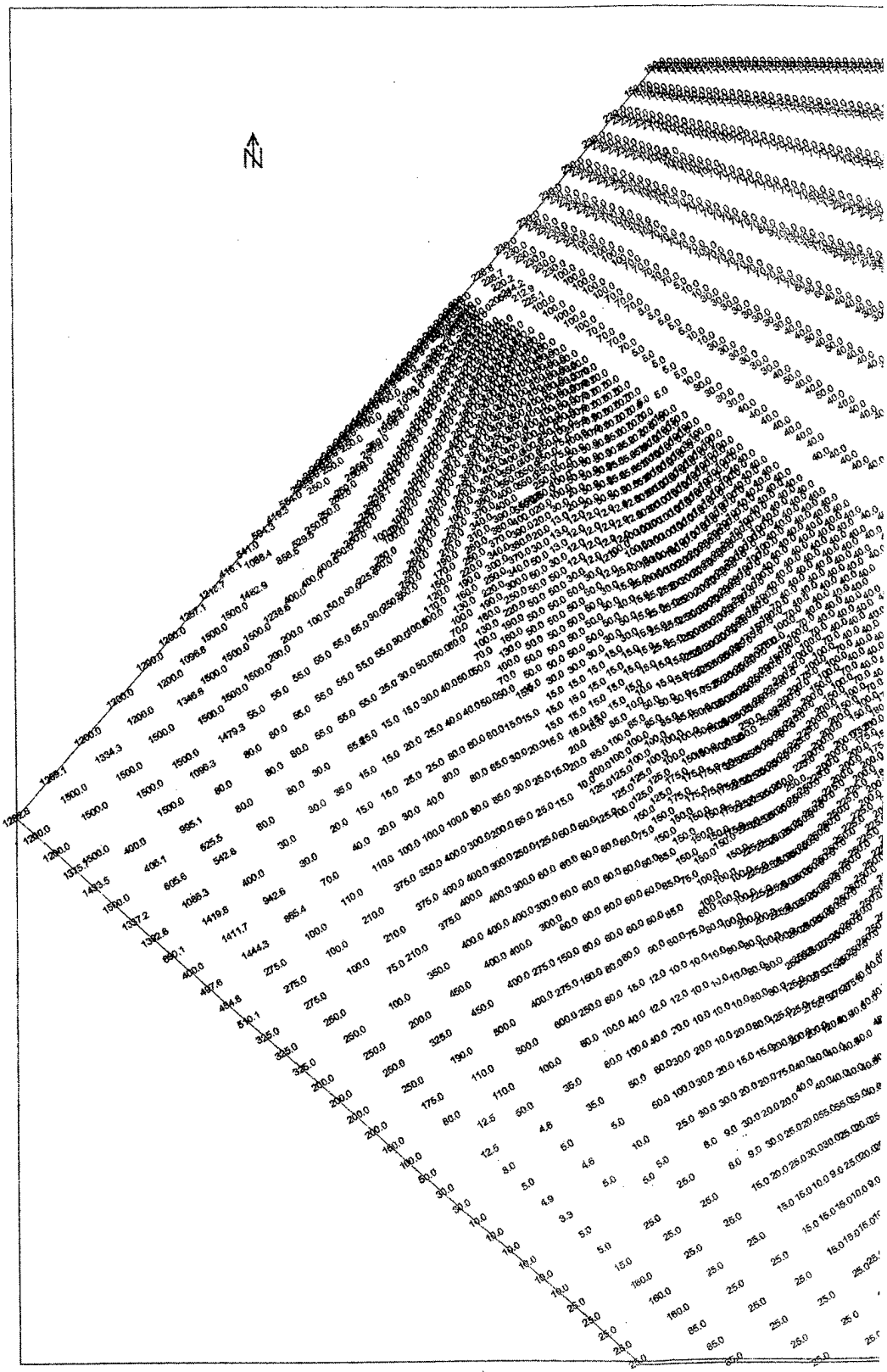
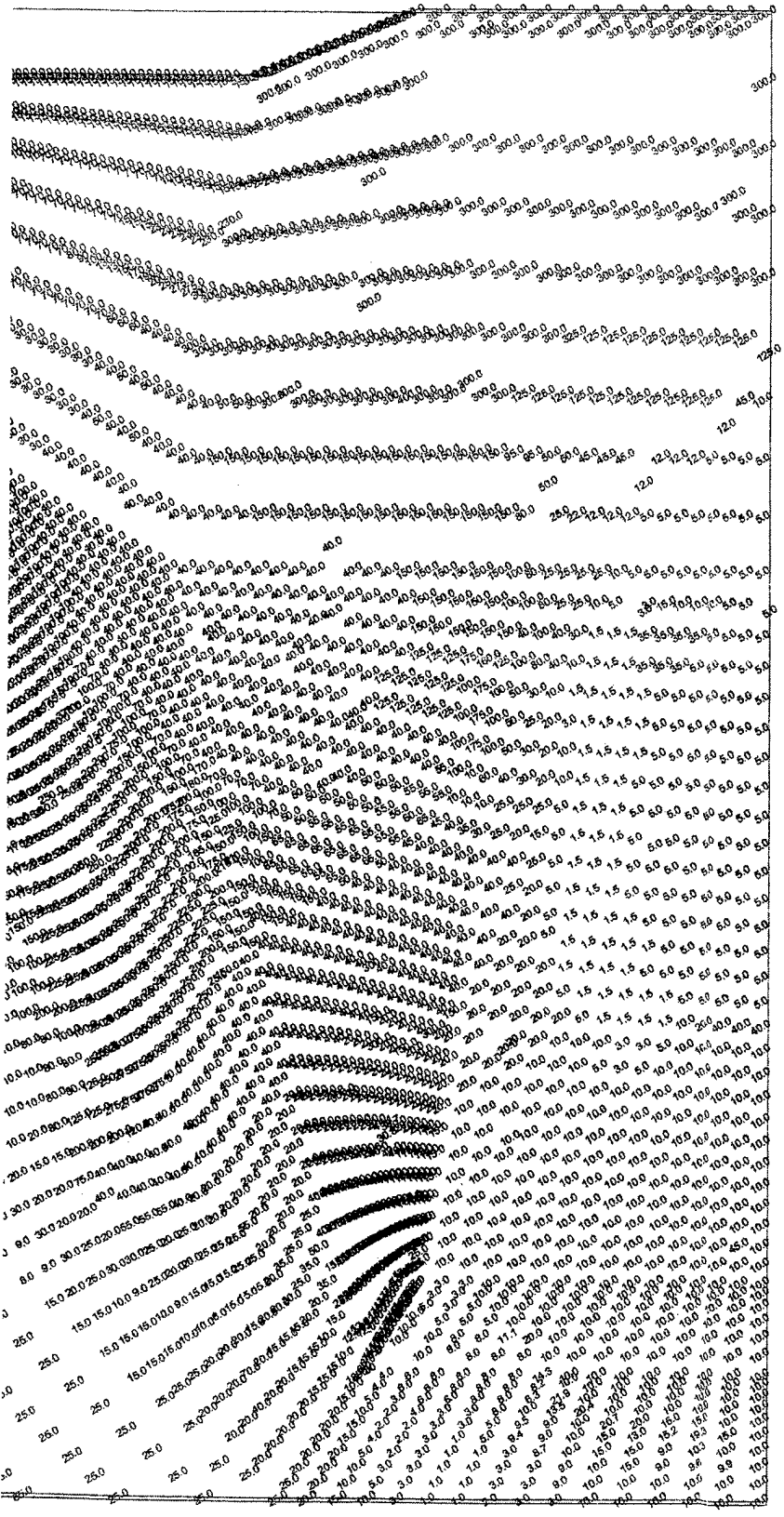


Figure 18. Alluvium model hydraulic conductivity (ft/day)



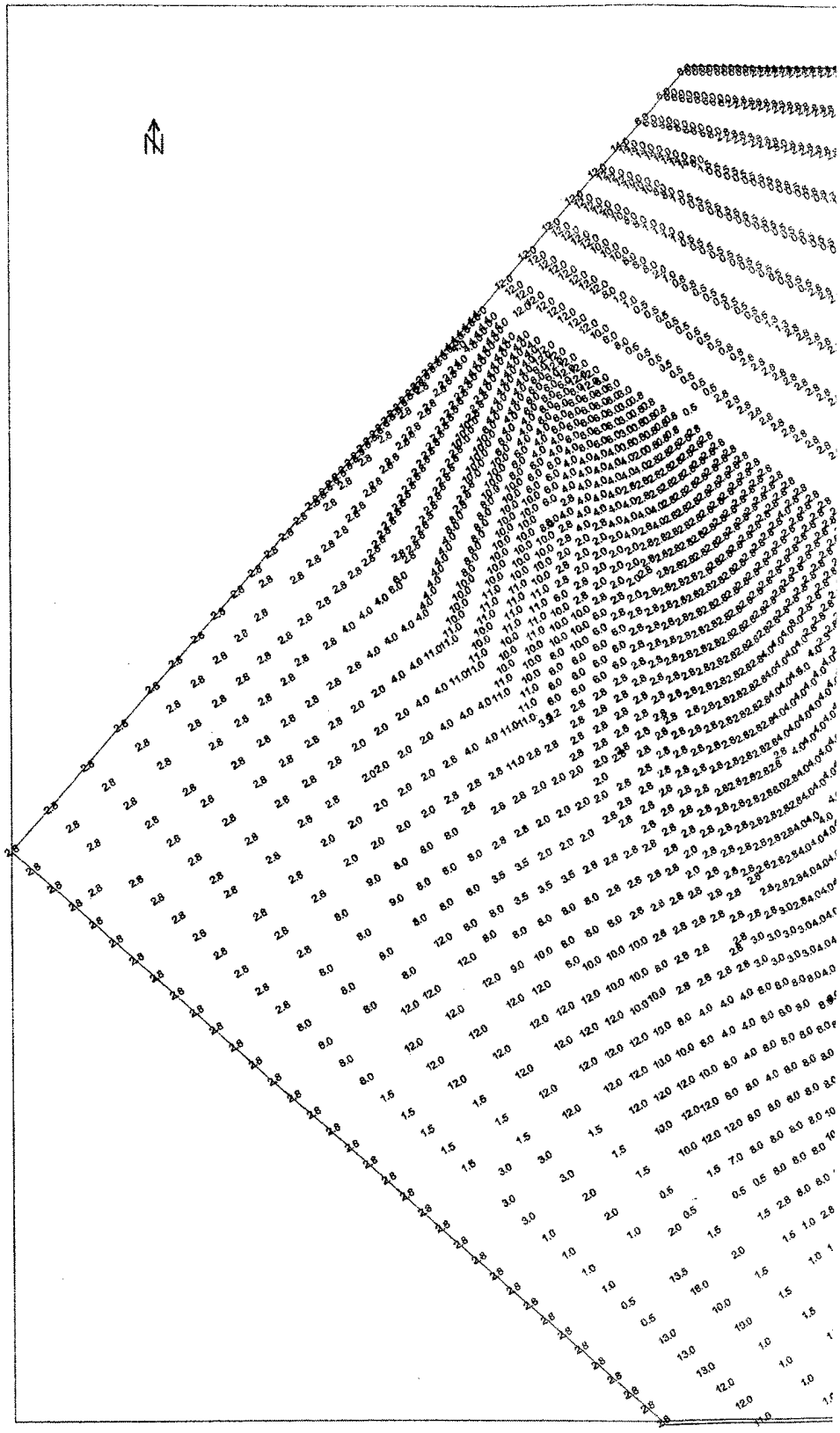
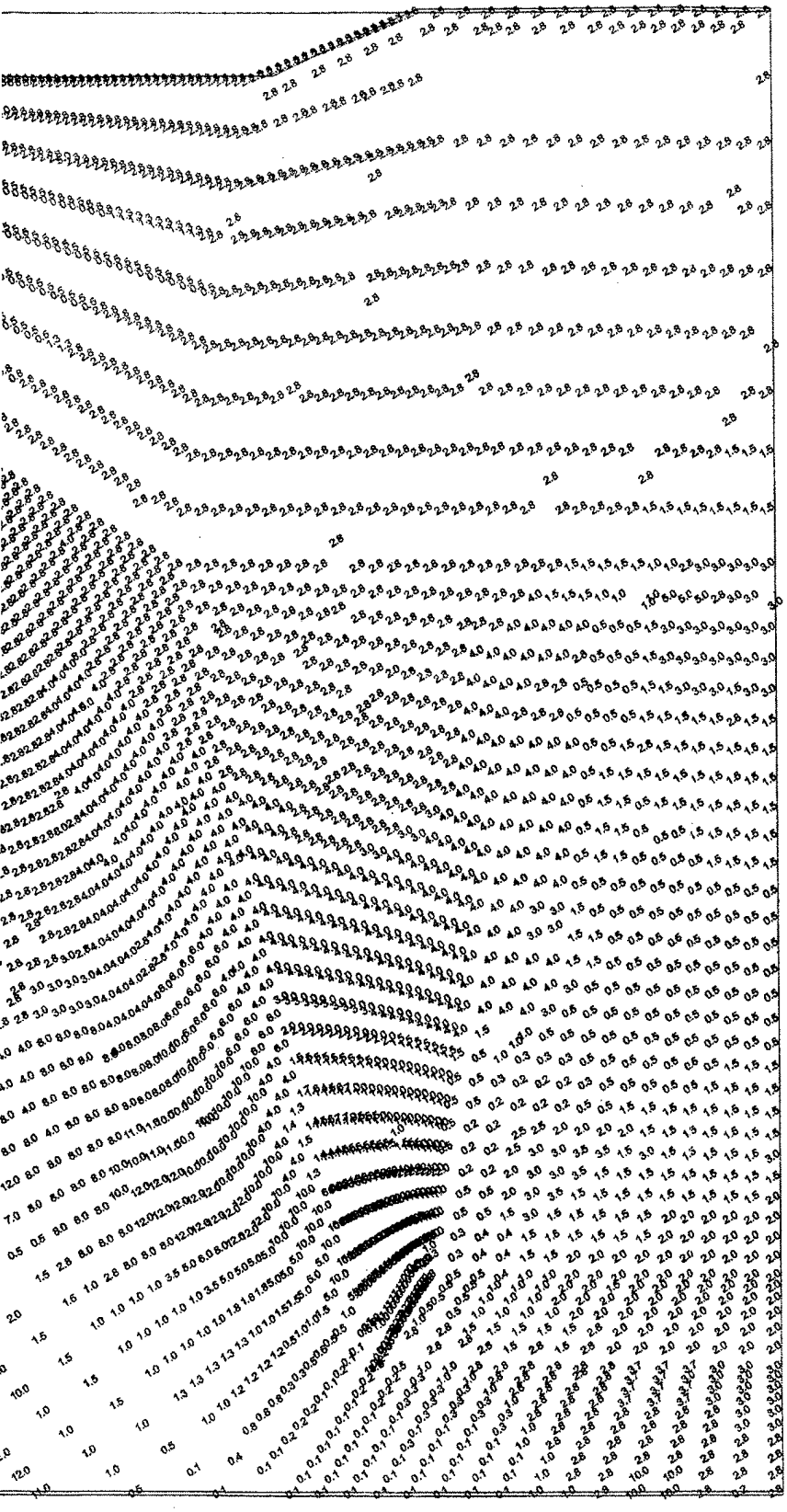


Figure 19. Denver FM model hydraulic conductivity (ft/day)



(Sturdivant 1993). This finding supports the minor changes to the saturated thickness. The saturated thickness of the alluvium and the weathered Denver Fm is given in Figures 20 and 21. The alluvium has areas that are saturated and unsaturated.

Areas of unsaturated alluvium occurring in the summer of 1990 are shown in Figure 22. The areas of unsaturated alluvium resulting from steady-state calibration are shown in Figure 23. A comparison of the two figures indicates that the calibrated model reproduced the summer 1990 unsaturated alluvium areas within previously stated criteria. In some areas of the model domain, the summer 1990 saturated areas are less than 2 ft from being unsaturated, which explains why the two figures have minor differences. The calibrated model water level elevation can be within 2 ft of the observed water level elevation and still change unsaturated areas to saturated areas, and vice versa.

During the calibration process more than 500 runs were made using the method previously described. After the completion of each calibration run, a contour map of the difference (residual) between observed and computed heads was prepared to locate areas where differences remained above plus or minus 3 ft. The residual contour map was overlaid on maps showing the saturated and unsaturated areas, the observed water-level contour, and the most recent hydraulic conductivity so that new adjustments could be made in these parameters for the next run. The model was assumed to be calibrated when the residual values were as low as possible and further runs did little to decrease the residual, and when the following criteria were met:

a. Ninety-five percent of all observation wells were within plus or minus 3 ft of their observed values (Table 5).

b. The mass balance was within 95 percent (Table 6).

c. The groundwater flows across the NBCTS, NWBCS, and the Basin A Neck system were within 95 percent of observed flows.

The computed heads from the model calibration shown in Figure 24 is a reasonable duplication of the observed heads shown in Figure 13 and the general flow pattern of the groundwater. A contour map of the differences between observed and computed heads, referred to as the calibration residual map, for the calibrated model is shown in Figure 25. Positive areas indicate where the model-computed heads are greater than observed heads, and negative values indicate locations where computed heads are less than observed heads.

Flow Paths

The particle tracking algorithm of the model was used to determine some groundwater flow paths within the model area. Several flowlines or streamlines indicating groundwater flow paths taken by particles of water moving through the model domain have been generated with the steady-state calibrated

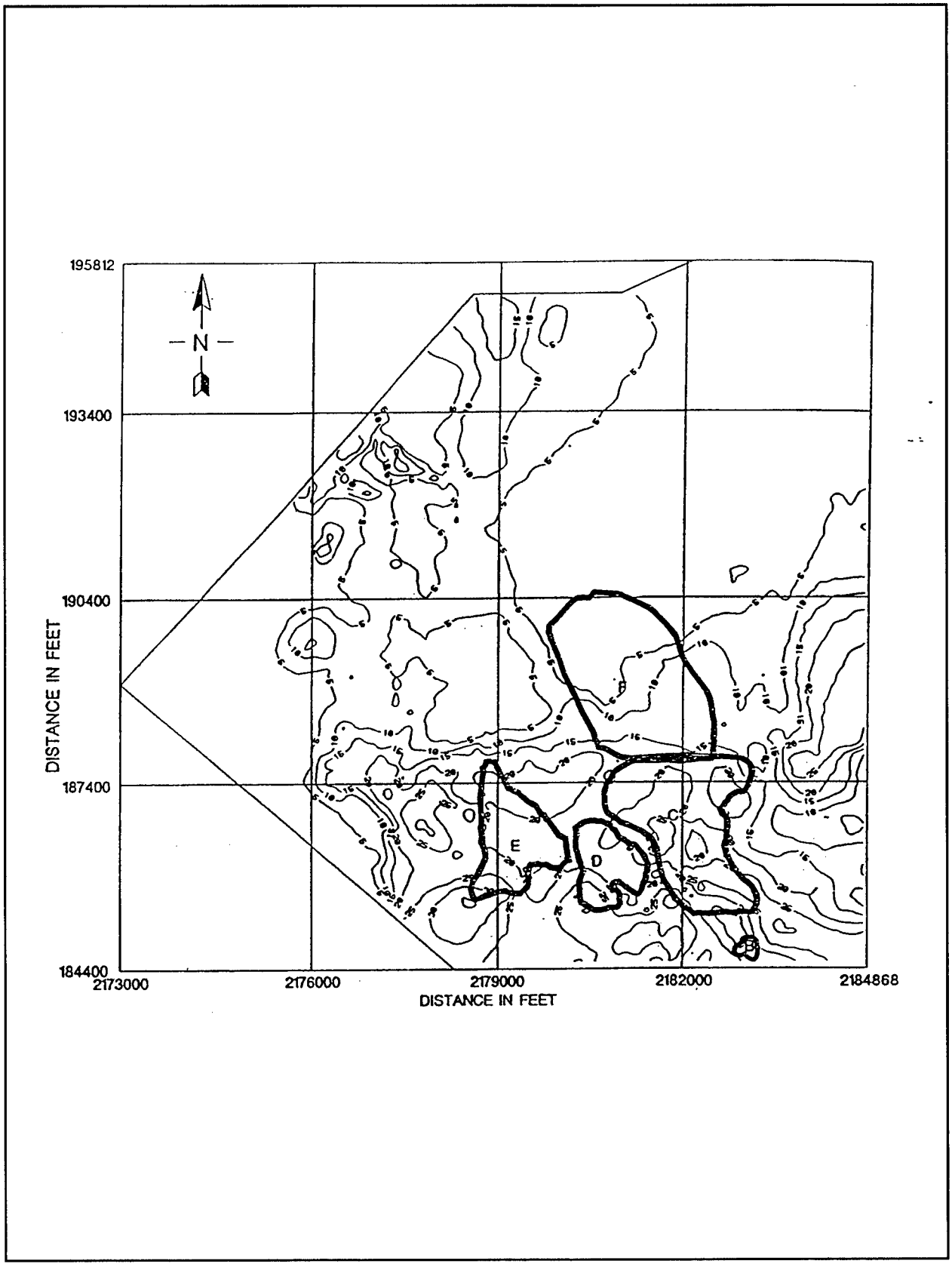


Figure 20. Denver Fm saturated thickness

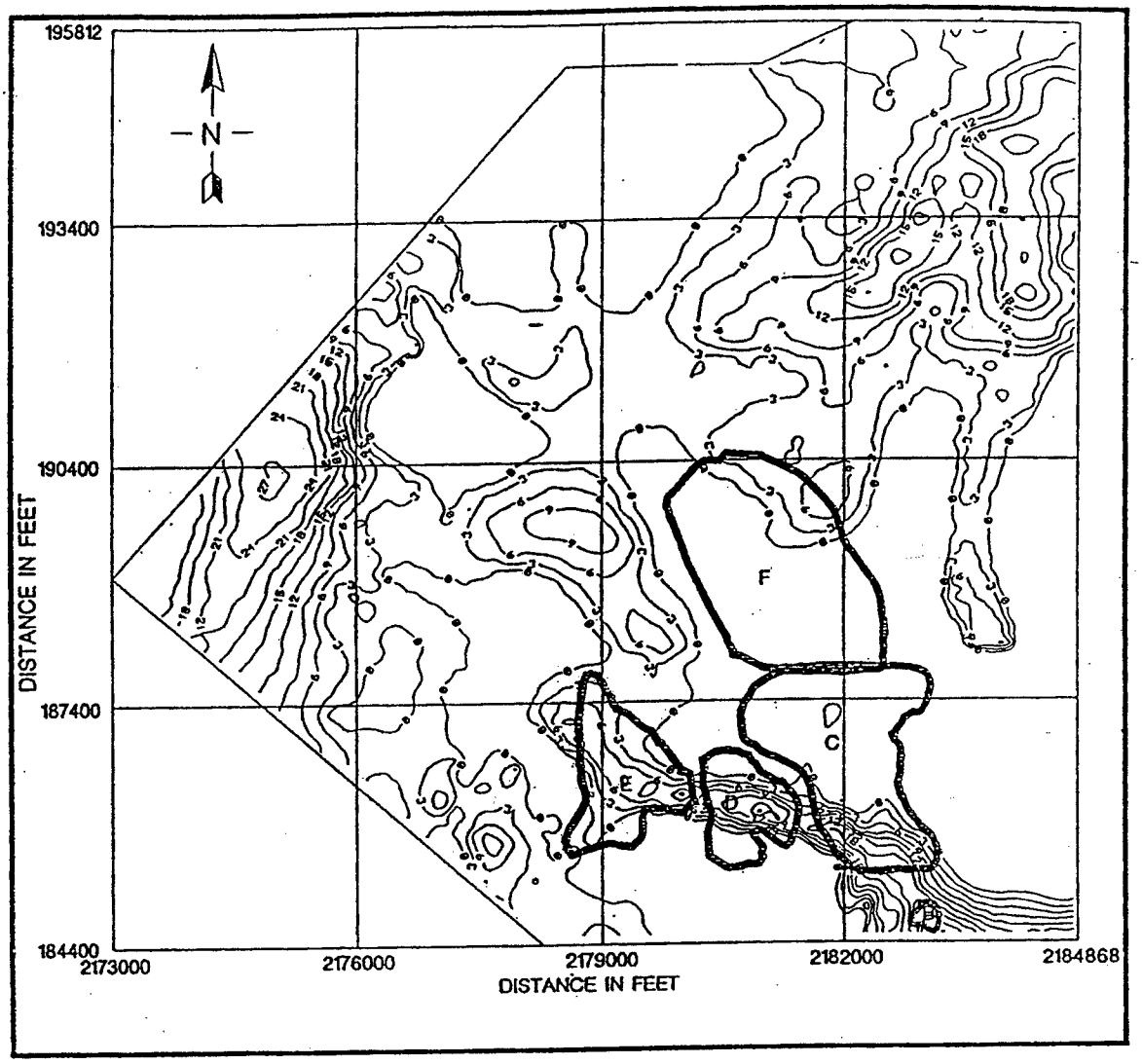


Figure 21. Alluvium saturated thickness

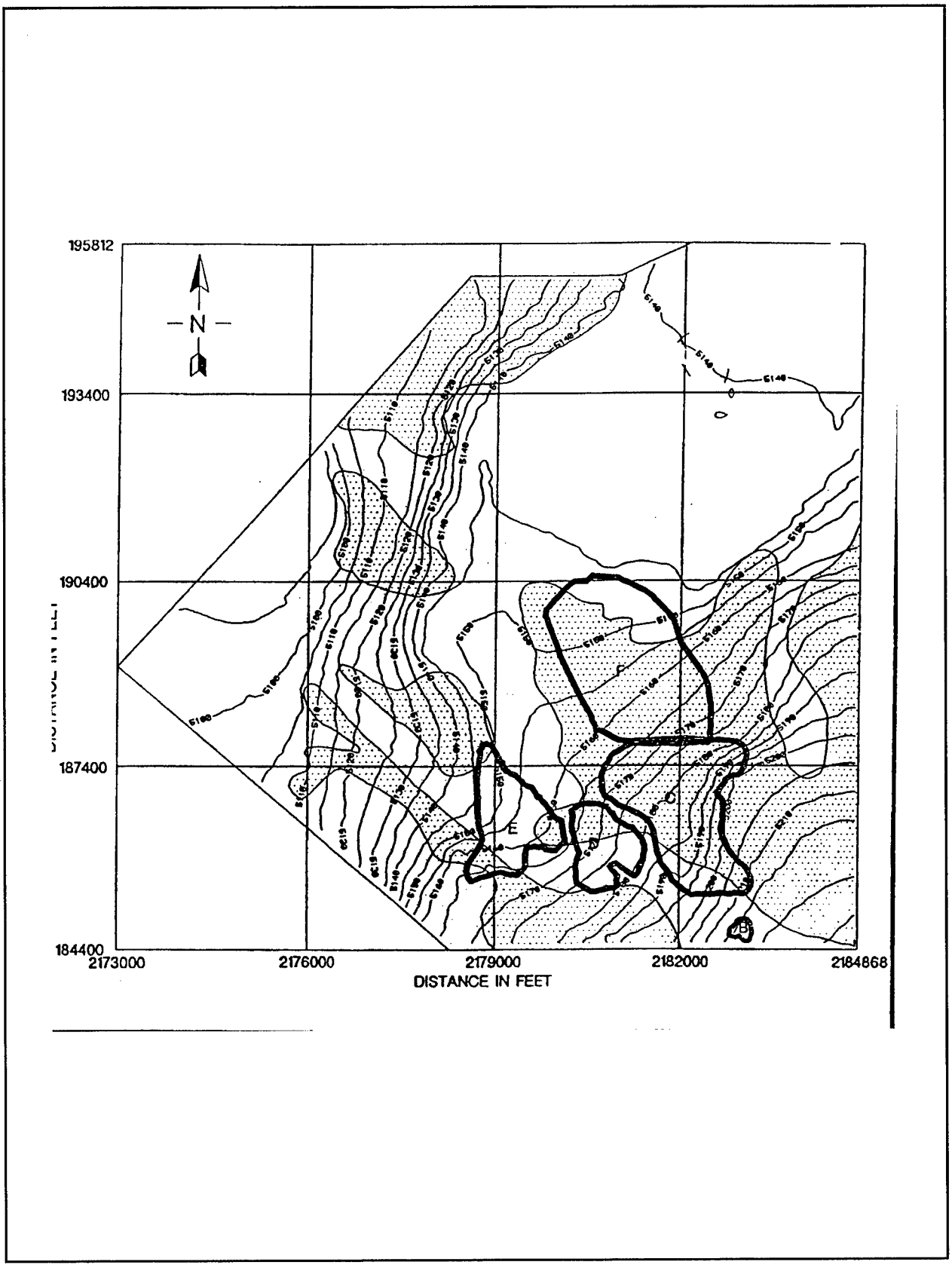


Figure 22. Summer 1990 unsaturated alluvium

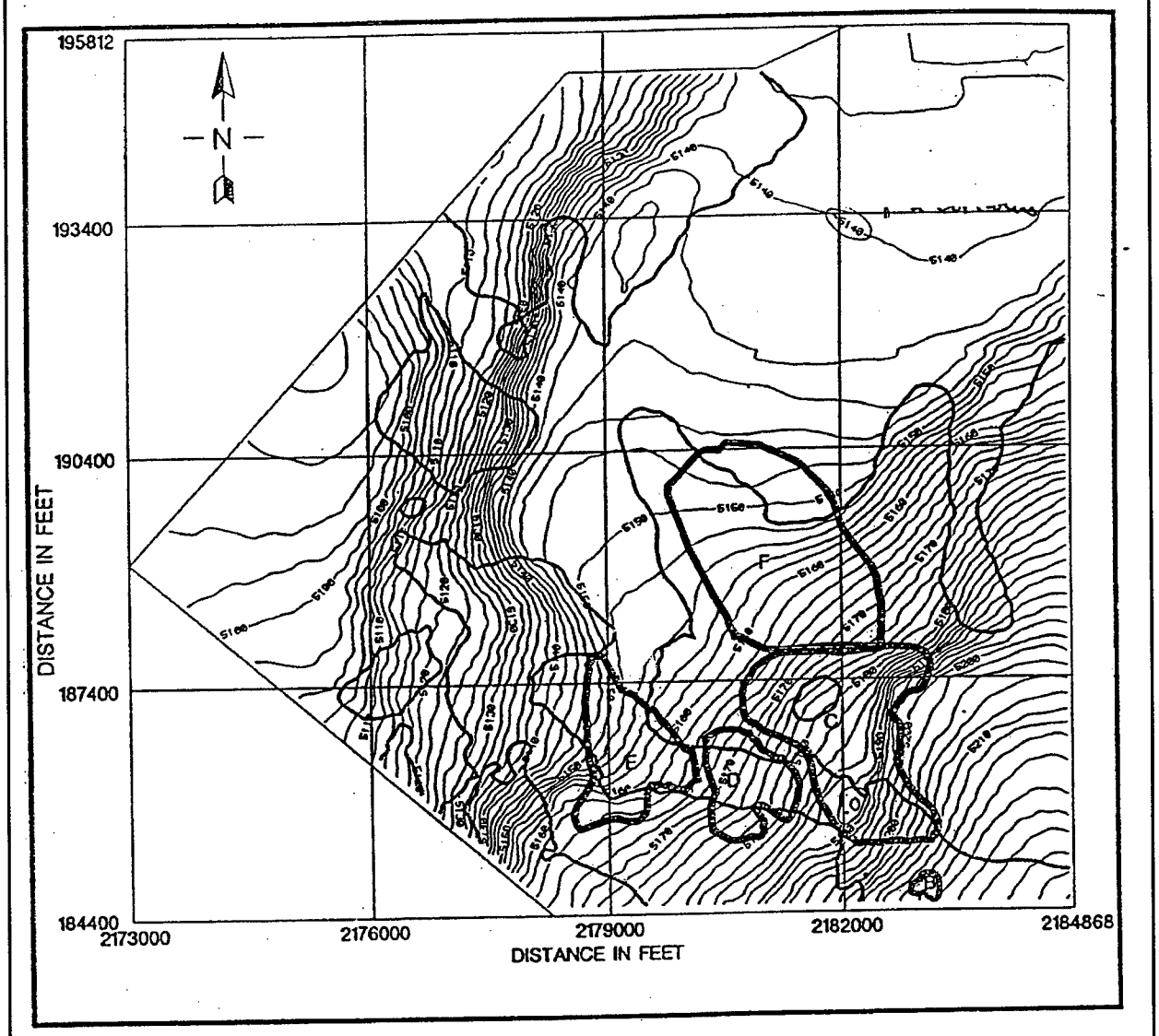


Figure 23. Unsaturated alluvium area from model calibration

Table 5
Observation Wells

Observation Well No.	Steady State Calibration			Transient Calibration		
	Observed Head ft	Calculated Head ft	Head Diff. ft	Observed Head ft	Calculated Head ft	Head Diff. ft
22012	5143.50	5140.63	2.87	5143.47	5141.04	2.43
22025	5109.27	5109.64	-0.37	5109.18	5108.90	0.28
22043	5092.42	5092.31	0.11	5091.86	5092.32	-0.46
22049	5110.36	5110.29	0.07	5110.01	5108.95	1.06
22052	5090.94	5093.38	-2.44	5090.26	5092.43	-2.17
22054	5111.90	5114.35	-2.45	5111.38	5112.70	-1.32
23013	5141.02	5139.39	1.63	5138.24	5140.63	-2.39
23058	5140.12	5139.37	0.75	5139.10	5140.81	-1.71
23085	5139.60	5138.07	1.53	5138.25	5139.54	-1.29
23096	5140.50	5140.77	-0.27	5138.97	5141.66	-2.69
23122	5136.30	5135.94	0.36	5135.63	5138.17	-2.54
23134	5139.82	5139.60	0.22	5138.18	5140.63	-2.45
23135	5145.00	5143.49	1.51	5144.10	5144.84	-0.74
23150	5139.10	5137.82	1.28	5138.05	5139.34	-1.29
23179	5140.26	5140.85	-0.59	5139.86	5141.86	-2.00
23182	5112.80	5115.02	-2.22	5112.84	5114.97	-2.13
23185	5144.70	5141.84	2.86	5139.99	5142.58	-2.59
23188	5140.15	5140.12	0.03	5138.70	5141.31	-2.61
23191	5140.37	5142.38	-2.01	5139.98	5142.98	-3.00
23223	5138.80	5138.87	-0.07	5137.20	5139.74	-2.54
24010	5140.20	5141.81	-1.61	5139.59	5142.36	-2.77
24092	5139.10	5141.70	-2.60	5139.24	5142.01	-2.77
24122	5157.06	5154.13	2.94	5155.85	5152.94	2.91
24200	5138.17	5138.76	-0.59	5137.56	5138.94	-1.38
25022	5213.78	5212.74	1.04	5212.73	5212.88	-0.15
25028	5180.40	5178.78	1.62	5179.11	5179.16	-0.05
26010	5161.95	5163.73	-1.78	5161.76	5164.11	-2.35
26015	5144.52	5145.64	-1.12	5145.66	5145.55	0.11
26017	5145.19	5147.67	-2.48	5145.45	5148.20	-2.75
26020	5149.17	5149.26	-0.09	5148.65	5149.73	-1.08
26040	5147.03	5148.36	-1.33	5147.03	5147.32	-0.29
26041	5145.37	5145.94	-0.57	5145.79	5145.65	0.14
26046	5145.30	5144.73	0.57	5145.68	5144.61	1.07
26049	5150.71	5150.76	-0.05	5150.88	5151.19	-0.31
26050	5156.97	5154.08	2.89	5156.92	5154.45	2.47
26062	5163.07	5160.09	2.98	5162.27	5160.52	1.75

(Continued)

Table 5 (Concluded)

Observation Well No.	Steady State Calibration			Transient Calibration		
	Observed Head ft	Calculated Head ft	Head Diff. ft	Observed Head ft	Calculated Head ft	Head Diff. ft
26063	5182.16	5185.03	-2.88	5183.15	5185.58	-2.43
26065	5161.70	5160.95	0.75	5161.12	5161.89	-0.77
26068	5158.96	5159.38	-0.42	5159.03	5159.96	-0.93
26073	5176.95	5178.99	-2.04	5176.06	5178.17	-2.12
26076	5151.19	5151.22	-0.03	5151.41	5151.78	-0.37
26081	5148.00	5147.39	0.61	5147.43	5147.71	-0.28
26083	5150.20	5149.13	1.07	5152.55	5149.61	2.94
26085	5179.38	5178.47	0.91	5178.84	5179.07	-0.23
26088	5142.91	5144.81	-1.91	5142.30	5145.09	-2.79
26124	5154.31	5154.45	-0.15	5154.41	5153.34	1.07
26133	5146.14	5146.42	-0.28	5146.72	5145.95	0.77
26143	5174.73	5174.56	0.17	5173.80	5173.88	-0.08
26159	5201.04	5199.01	2.03	5199.75	5198.85	0.90
26160	5143.90	5144.35	-0.45	5144.46	5144.33	0.13
26166	5151.44	5152.65	-1.20	5151.11	5152.79	-1.68
26168	5155.51	5157.33	-1.82	5155.80	5158.26	-2.46
26169	5148.09	5149.43	-1.34	5148.27	5149.46	-1.19
26170	5140.77	5142.71	-1.94	5141.82	5143.32	-1.50
26173	5147.71	5148.97	-1.26	5148.60	5148.18	0.42
27003	5097.70	5097.46	0.24	5097.81	5097.68	0.13
27017	5148.10	5145.82	2.28	5147.63	5145.76	1.87
27019	5148.53	5145.58	2.95	5148.06	5145.48	2.58
27024	5125.80	5125.96	-0.16	5124.79	5126.53	-1.74
27040	5120.80	5120.91	-0.11	5119.70	5120.86	-1.16
27041	5113.70	5112.14	1.56	5112.72	5113.98	-1.26
27051	5128.30	5126.25	2.05	5128.39	5126.01	2.38
27056	5098.40	5097.59	0.81	5097.33	5097.53	-0.20
27059	5127.30	5126.71	0.59	5126.41	5126.64	-0.23
27064	5093.69	5093.52	0.17	5093.25	5093.57	-0.32
27072	5095.80	5095.80	-0.01	5095.75	5096.06	-0.31
27073	5097.90	5098.79	-0.89	5097.93	5098.98	-1.05
27080	5120.00	5117.14	2.86	5119.07	5118.03	1.04
27084	5136.40	5138.70	-2.30	5135.82	5138.49	-2.67
35031	5174.21	5172.79	1.42	5173.22	5172.54	0.68
35040	5165.08	5162.63	2.45	5164.40	5162.94	1.46
35048	5216.78	5213.85	2.93	5216.27	5214.46	1.81
35079	5197.98	5196.61	1.37	5199.06	5198.85	0.21
35091	5182.20	5184.75	-2.55	5182.04	5184.98	-2.94

Table 6
Steady-State Mass Balance

Item	Recharge rate (gpm)	Discharge rate (gpm)
Precipitation	128.28	
Denver Sands	82.8	
Boundary Inflow	622.64	434.26
Basin A Neck Containment System	14.46	14.46
North Boundary Containment Treatment System		84.6
Northwest Boundary Containment System		314.69
Basin F IRA	2.0	2.0
Total	850.21	850.21

model. The particles move through the model domain by using computed velocity vectors from each node. Forty separate particles were released in the model domain. The resulting flowlines are shown in Figure 26. The release point for each particle was selected so that the resulting flowlines would generally follow major groundwater flow routes. The flowlines indicate that the model can generally predict contaminant flow paths within the model domain.

Water Budget

The water budget under steady-state conditions is based on various inflow and outflow components within the model area. The hydrologic budget results illustrate which inflow and outflow components have an impact on the model area.

The largest source of recharge water into the model area is boundary inflow (underflow), which accounts for 73 percent of all recharge water. The remaining 27 percent of recharge water is from precipitation (16 percent), Denver Fm sands (9 percent), and the Basin A Neck containment system (2 percent), respectively.

The water budget indicates that the largest discharge mechanisms are boundary outflow (underflow), which accounts for 50 percent of all discharge water. The remaining 50 percent of discharge water is to the NWCS (38 percent), NBCTS (10 percent), and the Basin A Neck Containment System (2 percent). These results confirm that the containment systems have a major influence on the total flow system within the model domain.

Boundary inflow (underflow) accounts for the largest amount of both recharge and discharge within the model area. The boundary volumetric flows were computed by the model based on a constant head boundary condition. A summary of the inflow and outflow components affecting the groundwater flow is shown in Table 6. The flow components and their relative locations are

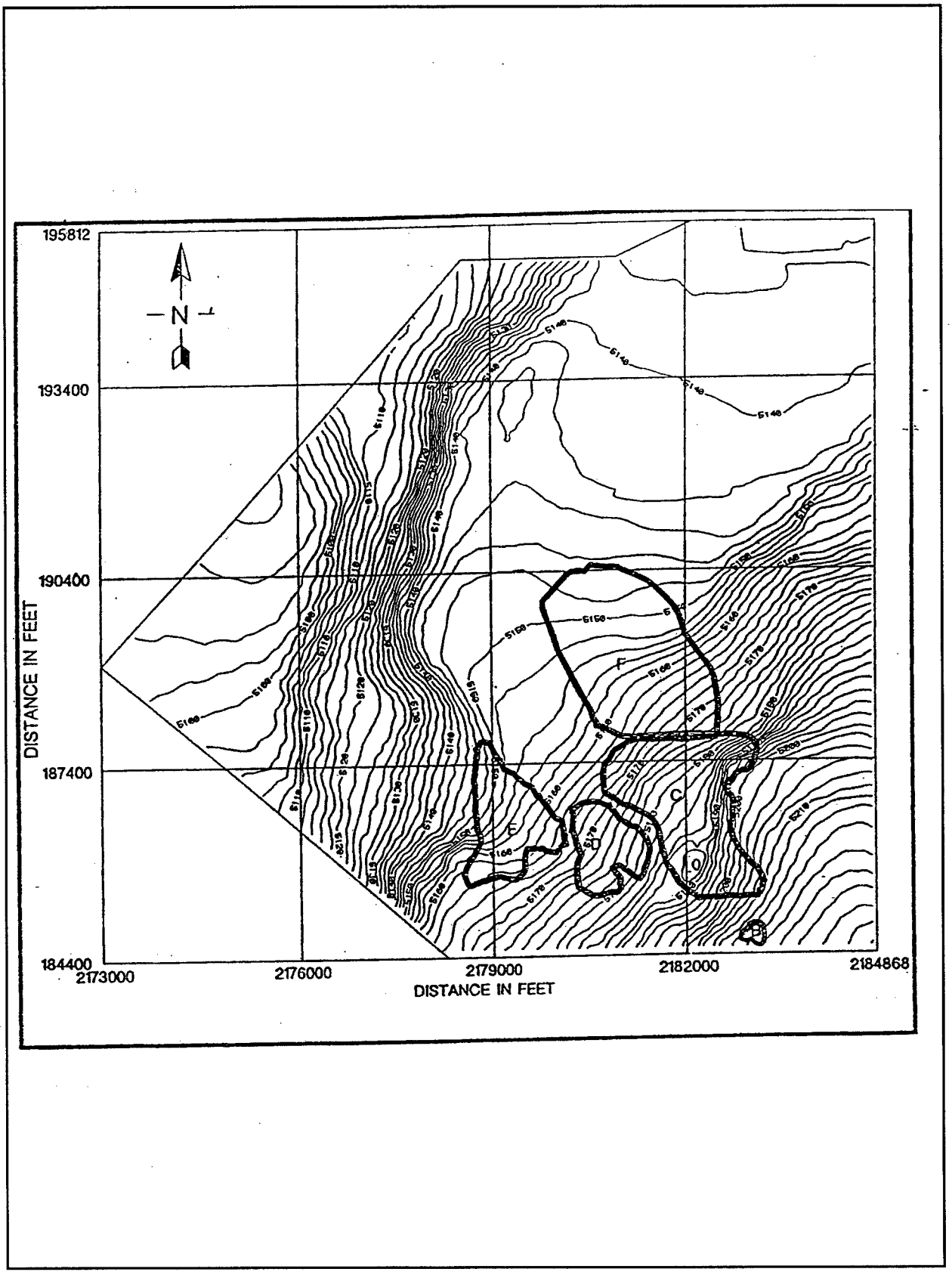


Figure 24. Computed heads from model calibration

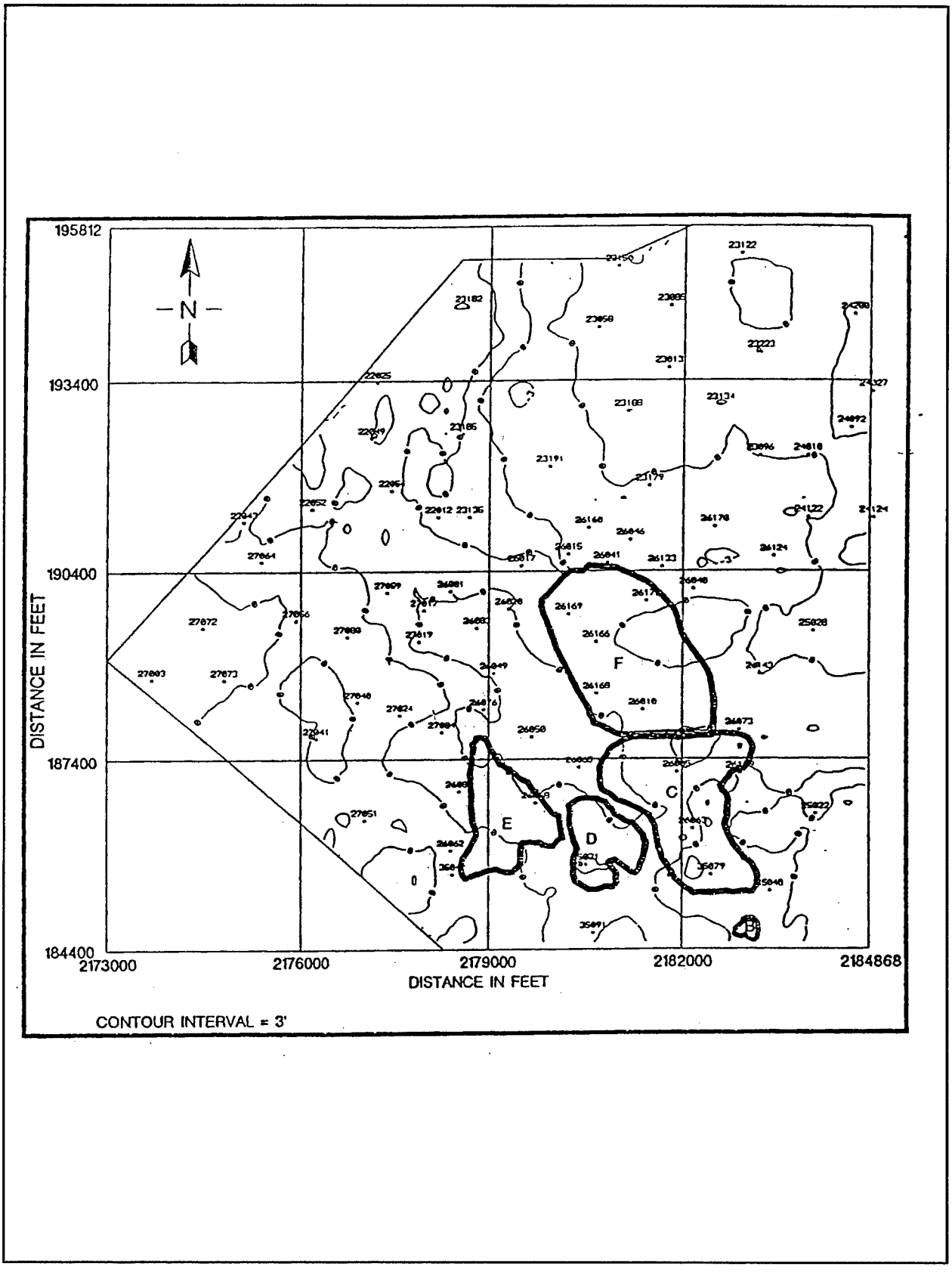


Figure 25. Calibration residual map

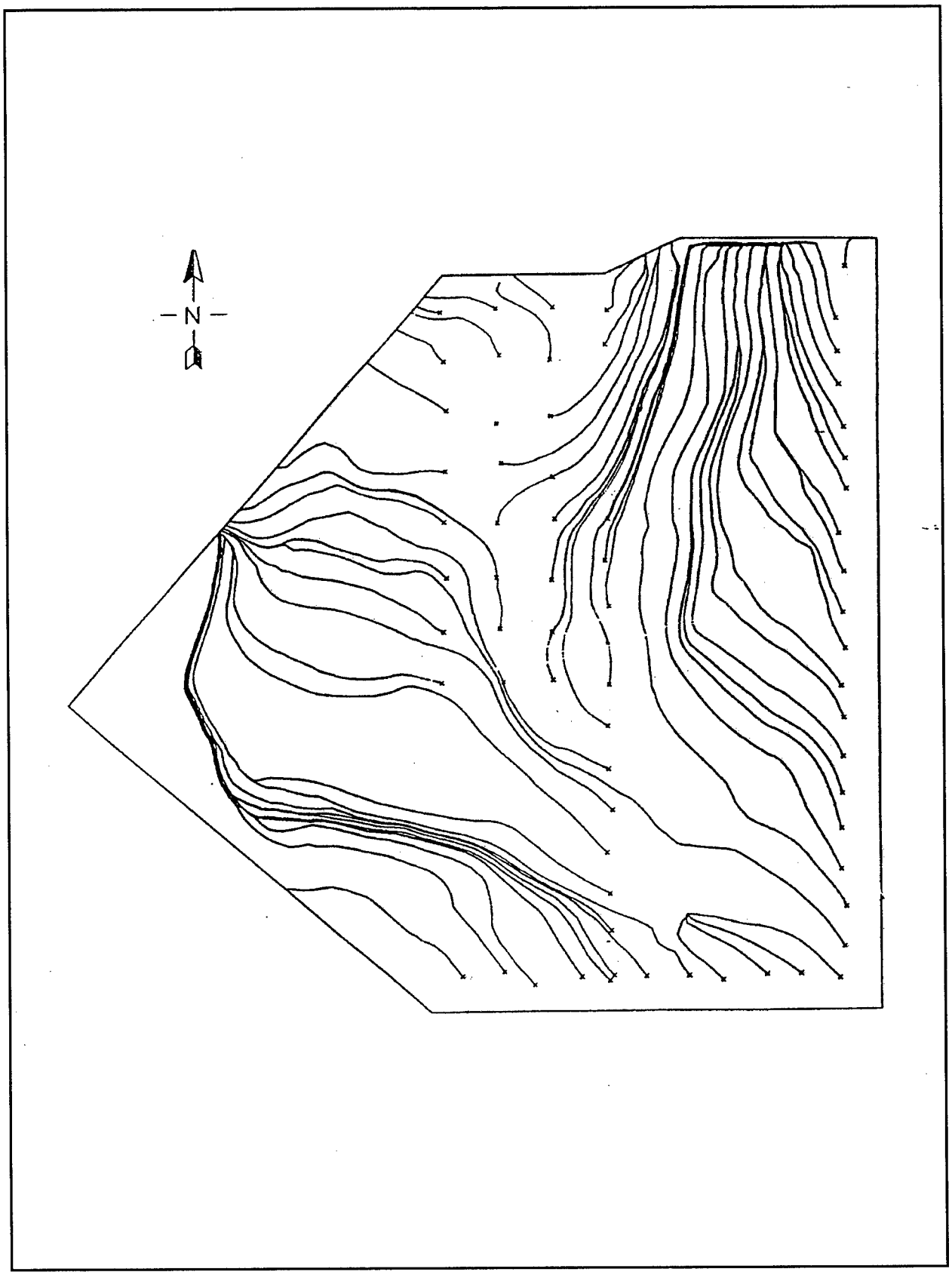


Figure 26. Model groundwater flowlines

shown graphically in Figure 27 which illustrates the flows entering and exiting the model area from recharge sources, boundary containment systems, and model boundaries.

Calibration Results

The steady-state model calibration resulted in flow paths, mass balance, and fluxes across contamination control systems that are realistic and that compare well with previous work. The results from the calibration of the Basin F Sub-regional Model are acceptable as measured by the criteria provided by Ebasco. The results of the model based on the criteria used are provided in detail within this report. A copy of the steady-state calibration input data file is given in Appendix B. Based on the successful results of the steady-state calibration, a transient calibration of the model was performed.

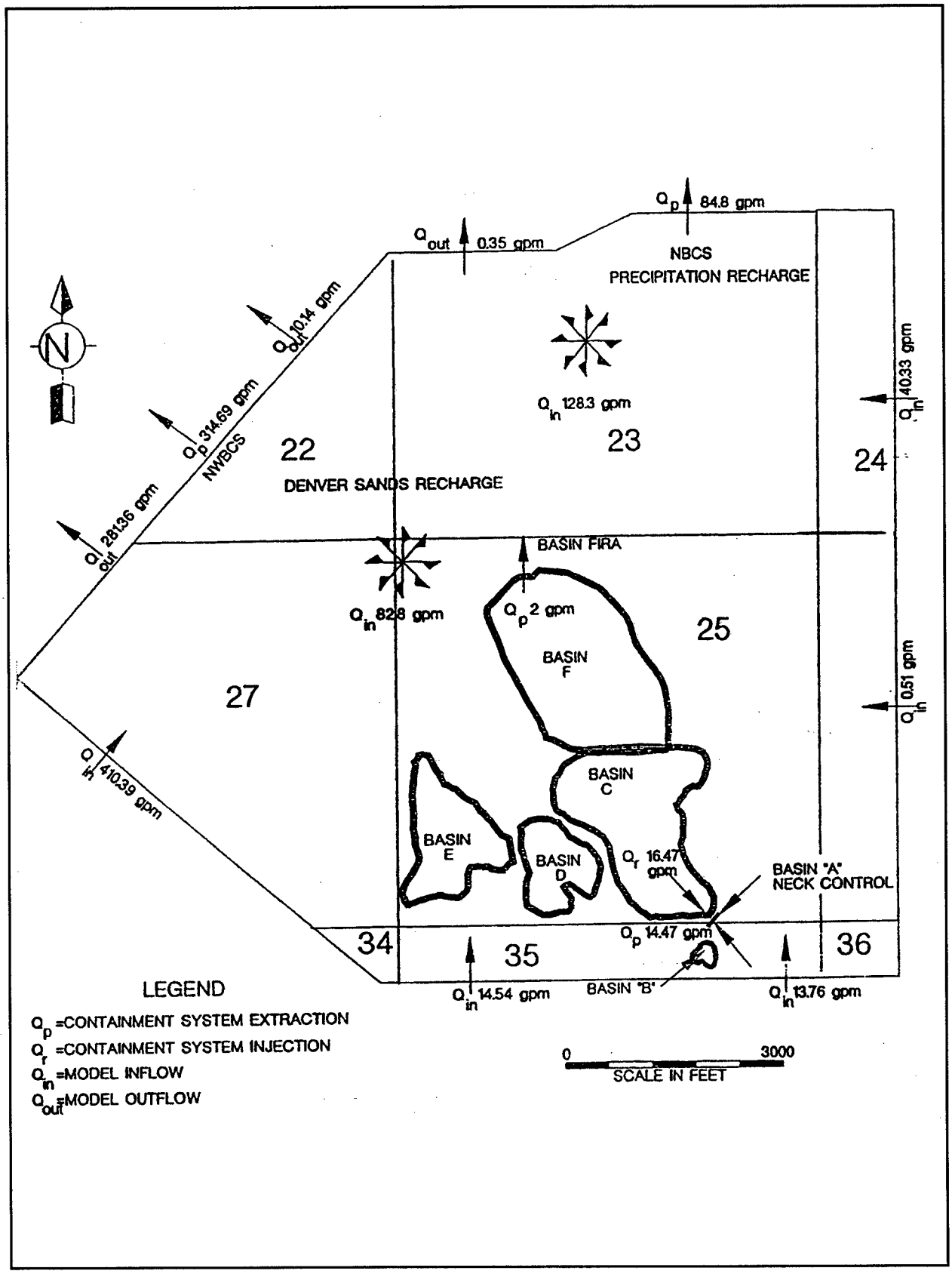


Figure 27. Steady-state mass balance

5 Transient Model Calibration

The reliability of parameters used for steady-state calibration of the groundwater model can be verified with transient simulations. Unlike the steady-state calibration, transient simulations, which indicate how the hydrologic system will respond to stress require that water levels change with time. Therefore, the steady-state calibration data must be converted to transient data. The transient calibration procedure consists of the following steps:

a. *Determine the time parameters for the transient calibration simulations.* The parameters include the length of the calibration simulation, the length of the stress period, the length of the time step, and a multiplication factor for increasing the size of the time step. The length of the simulation determines the time period to calibrate the model. The time period selected is usually based on the amount of data available on the model area. The time period selected for the transient calibration of this model is the 2nd quarter of the 1992 Fiscal Year (FY). The length of the simulation is one and a half years. The length of the stress period is quarterly (90 days), the time step is 1 hr, and the time multiplication factor is 1.5.

b. *Collect and adjust input data.* All parameters (input data) that have changed over time, and parameters not applied for steady-state calibration but are required for transient calibration were collected. The data collected consist of measured (observed) well water-level elevations, measured and estimated recharge/discharge values, and estimated storage coefficients. The observed head values for the 74 wells that the model will attempt to match during transient calibration are shown in Table 5. The observation well water level elevation data were provided by DP Associates, Inc. The measured pumping and injection rates for the NBCTS, NWBCS, and Basin A Neck containment system used for transient calibration are shown in Tables 7 through 9. Measured precipitation values used for model calibration are shown in Table 10. Table 11 summarizes the transient mass balance. Precipitation data were provided by RMA and compiled as part of their ongoing precipitation data collection program. The storage coefficients used for model calibration range from 0.05 to 0.25. The North Boundary Model Report reference indicated that results from long term (72 hr) pump testing produced a range of storage coefficient values from 0.25 down to 0.001.

Table 7
North Boundary Containment System Pumping Rates for Transient Simulation

Well No.	Well ID Code	Rate (gpm)					
		FY 91 QTR 1	FY 91 QTR 2	FY 91 QTR 3	FY 91 QTR 4	FY 92 QTR 1	FY 92 QTR 2
23301	17	0.250	0.250	0.250	0.250	0.189	0.350
23302	18	2.775	2.775	2.775	2.775	0.000	0.350
23303	19	3.875	3.875	3.875	3.875	7.490	6.800
23304	20	3.450	3.450	3.450	3.450	0.489	7.000
23305	21	5.800	5.800	5.800	5.800	0.000	1.600
24306	22	7.775	7.775	7.775	7.775	0.031	0.000
24307	23	11.43	11.43	11.43	11.43	0.092	8.000
24308	24	1.246	1.246	1.246	1.246	0.092	0.000
24309	25	1.173	1.173	1.173	1.173	0.092	0.000
24310	26	2.052	2.052	2.052	2.052	0.092	0.000
24311	27	2.346	2.346	2.346	2.346	15.01	0.000
24312	28	4.032	4.032	4.032	4.032	0.000	1.000
24313	29	15.98	15.98	15.98	15.98	0.000	0.650
23334	15	1.300	1.300	1.300	1.300	0.000	0.000

c. *Adjust and update boundary conditions.* Constant-head nodes were assigned as boundary conditions for the steady-state calibration of the model. Constant-head boundary nodes were changed to prescribed flux nodes to fix the amount of underflow through the boundaries during the application of changing stresses associated with the operation of the containment systems. The boundary fluxes used for the transient simulation were calculated by the model.

d. *Calibration of the model.* Data inputs were made, boundary conditions were adjusted, and model transient calibration simulations were performed. Model adjustable parameters were adjusted so the model-computed heads approximate as closely as possible measured (observed) monitor well head values. When 95 percent of all observation wells had a residual value within plus or minus 3 ft and previously stated criteria were met, the model was considered calibrated.

Table 8
Northwest Boundary Containment System Pumping/Recharge Rates for Transient Simulation

Well No.	Well ID Code	Rate (gpm) FY 91 QTR 1	FY 91 QTR 2	FY 91 QTR 3	FY 91 QTR 4	FY 92 QTR 1	FY 92 QTR 2
Pumping							
22301	41	47.40	47.76	16.54	3.08	8.66	17.25
22302	41	47.40	47.76	16.54	3.08	8.66	17.25
22303	40	20.03	1.27	23.32	14.78	25.04	26.09
22304	40	20.03	1.27	23.32	14.78	25.04	26.09
22305	39	0.01	0.01	0.00	21.15	16.90	14.19
22306	39	0.01	0.01	0.00	21.15	16.90	14.19
22307	38	33.71	38.88	30.41	22.06	32.07	31.27
22308	38	33.71	38.88	30.41	22.06	32.07	31.27
22309	37	15.38	15.45	44.24	26.25	27.60	29.75
22310	37	15.38	15.45	44.24	26.25	27.60	29.75
22311	30	0.04	0.02	0.19	0.19	0.205	0.157
22312	31	30.20	36.86	33.05	25.98	28.41	22.15
22313	32	19.71	24.47	14.55	0.00	22.43	25.45
22314	33	0.51	0.00	0.0015	0.00	7.17	19.70
22315	34	37.13	43.42	41.06	38.58	42.55	28.98
22316	35	35.08	7.52	0.37	0.00	0.00	0.87
22317	36	34.76	29.66	28.92	3.15	2.14	2.06
Recharge							
27422	58	0.00	0.00	0.00	36.90	17.90	50.10
27423	58	0.00	0.00	0.00	81.60	62.60	35.50
27424	59	0.00	0.00	0.00	54.80	76.60	79.60
27425	59	0.00	0.00	0.00	73.10	69.80	67.60

Transient Calibration Results

The results from the transient calibration of the Basin F Subregional Groundwater Model are acceptable, as measured by the previously stated criteria. The model calibration resulted in a close approximation of the measured head values of 74 observation wells. The parameter adjusted during the transient calibration of the model was the storage coefficient. The residual values for the 74 observation wells are given in Table 5. All wells are within the 3 ft criteria. A copy of the transient calibration input data file is given in Appendix C. Transient calibration of the Basin F Groundwater Model adds validity to the parameters and input data used for the modeling effort.

Table 9
Basin A Neck Containment System Pumping/Recharge Rates for Transient Simulation

Well No.	Well ID Code	Rate (gpm) FY 91 QTR 1	FY 91 QTR 2	FY 91 QTR 3	FY 91 QTR 4	FY 92 QTR 1	FY 92 QTR 2
Pumping							
35301	42	1.628	1.140	1.265	1.165	0.461	0.329
35302	43	3.440	2.408	2.673	2.465	2.693	1.925
35303	44	1.131	0.792	0.878	0.809	1.359	0.970
35304	42	1.628	1.140	1.265	1.165	0.461	0.329
35305	43	3.440	2.408	2.673	2.465	2.693	1.925
35306	44	1.131	0.792	0.878	0.809	1.359	0.970
35307	44	1.131	0.792	0.878	0.809	1.359	0.970
23311	45[1]	0.007	0.030	0.340	0.030	1.13061	1.500
Recharge[2]							
46	Trench A	0.189	0.146	0.180	0.187	0.298	0.338
47	Trench A	0.189	0.146	0.180	0.187	0.298	0.338
48	Trench A	0.189	0.146	0.180	0.187	0.298	0.338
49	Trench A	0.189	0.146	0.180	0.187	0.298	0.338
50	Trench B	0.474	0.366	0.450	0.468	0.348	0.438
51	Trench B	0.474	0.366	0.450	0.468	0.348	0.438
52	Trench B	0.474	0.366	0.450	0.468	0.348	0.438
53	Trench B	0.474	0.366	0.450	0.468	0.348	0.438
54	Trench C	0.259	0.200	0.245	0.256	0.234	0.294
55	Trench C	0.259	0.200	0.245	0.256	0.234	0.294
56	Trench C	0.259	0.200	0.245	0.256	0.234	0.294
57	Trench C	0.259	0.200	0.245	0.256	0.234	0.294

[1] Basin F IRA discharge water is represented by ID Code 45.
[2] The system's recharge water is entered through the Basin A Neck recharge trench system. Each recharge trench is represented by a series of 4 wells.

Table 10
Transient Precipitation Rates

Period	Total Precipitation		Infiltration Rates			
			High Elevation (8.28%)		Low Elevation (5.52%)	
	in.	ft/day	ft/day	in./qtr	ft/day	in./qtr
FY 91, QTR 1	2.58	0.002389	0.000198	0.214	0.000132	0.143
FY 91, QTR 2	1.60	0.001481	0.000123	0.133	0.000082	0.089
FY 91, QTR 3	6.55	0.006065	0.000502	0.542	0.000335	0.362
FY 91, QTR 4	8.58	0.007944	0.000658	0.711	0.000439	0.474
FY 92, QTR 1	3.56	0.003296	0.000273	0.295	0.000182	0.197
FY 92, QTR 2	7.73	0.00438	0.000363	0.392	0.000242	0.261

Table 11
Transient Mass Balance

Item	Recharge rate (gpm)	Discharge rate (gpm)
Precipitation	160.60	
Denver Sands	61.88	
Boundary Inflow	297.25	385.69
Basin A Neck Containment System	4.28	8.91
North Boundary Containment System		25.75
Northwest Boundary Containment System		336.46
Wells Section 27 (NWBCS)	232.80	
Basin F IRA	2.0	2.0
Total	758.81	758.81

6 Sensitivity Analysis

Data used in any groundwater modeling effort are estimated, interpreted, and inferred from other data. Because of the uncertainties in the values of key parameters such as the hydraulic conductivity and recharge, it was determined that a sensitivity analysis should be performed. The analysis can determine the sensitivity of the flow field to the variation of key parameters. Each parameter was uniformly varied by a multiple of the calibrated value over the model area while all other parameters and variables were held constant. The measured water levels at 74 observation wells were compared to the computed water levels for the same wells for each parameter variation to determine the effect of the parameter change on the average water levels.

The Root Mean Square Error (RMSE) method was applied to the observed and calculated heads to determine the sensitivity of the model to specific parameter adjustments. The RMSE was calculated as,

$$RMSE = \sqrt{\frac{\sum_{i=1}^{N} \left(H_i^m - H_i^c\right)^2}{N}} \quad (3)$$

where

N = number of observations
H_i^m = the measured water level, in ft
H_i^c = the computed water level, in ft

The RMSE indicates the average amount the measured water levels differ from calculated water levels. The RMSE for the transient calibrated model was 1.5 ft, which indicates that on the average the difference between the measured and calculated heads for the 74 observation wells is 1.5 ft. The smaller the RMSE value, the better the calculated head matches the measured head.

The parameter adjustments applied were 0.1, 0.5, 1.5, 2.0, and 3.0 times the calibrated values for the two parameters. The RMSE values for each parameter variation depicting the range of sensitivity are shown in Figure 28; a multiple of one indicates the calibrated RMSE value. The model flow field was defined as sensitive to changes in parameter values when the RMSE was 10 percent greater than the RMSE of the calibrated model. Based on the established criteria, the

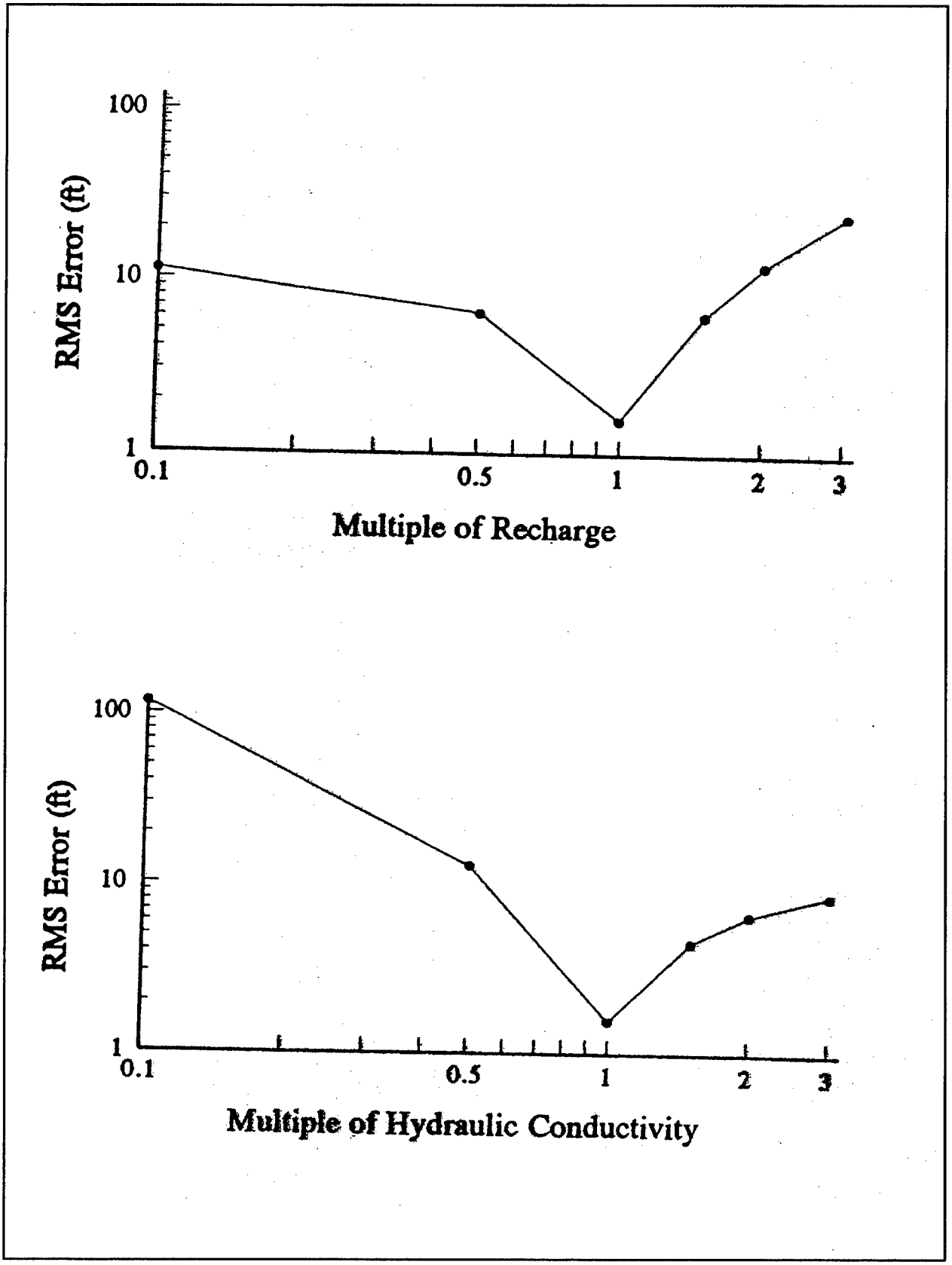


Figure 28. Sensitivity analysis results

flow field is sensitive to all hydraulic conductivity and recharge multiples, as shown in Figure 28. Therefore, the model is sensitive to adjustments in these parameters.

Sensitivity analysis is useful in evaluating the degree that errors in parameters affect the accuracy of the model. If an investigation indicates that a modification of any one of the parameters is required and the parameter's RMSE increased considerably by the change, then a new calibration would be suggested.

7 Simulation of Remedial Alternatives

Contaminant migration at RMA is largely controlled by advective flow. To assist in the evaluation of nine remedial alternatives, the Basin F Subregional Flow Model was used to simulate each alternative under steady-state conditions. The results of each simulation will be used to determine the feasibility, the effectiveness of each remedial alternative and its impact on existing control systems, and the regional groundwater flow. The alternative simulations and their results are discussed in this section.

Description of the Simulated Remedial Alternatives

A list of nine possible groundwater remedial alternatives was identified for the RMA Detailed Analysis. Illustrations of the components to be simulated for each alternative variations are given in Figures 29 through 37. In all figures, pumping wells are represented by solid circles, and recharge wells are represented by open circles. The wells are located at appropriate node locations on the grid. The locations of slurry walls are indicated as solid lines covering nodes which are used to represent the low-permeability slurry wall. The location and extent of low permeability surface cover or clay cap is indicated as a shaded area. The remedial alternative simulation identification codes and a brief description of the alternatives are as follows:

a. *NC-2.* Existing Basin F IRA pumping well only.

b. *NC-3A.* Extraction system of 13 pumping wells.

c. *NC-3B.* Extraction system of 13 pumping wells with 14 recharge wells.

d. *NC-3C.* Extraction and recharge system as simulation NC-3B with one slurry wall.

e. *NC-3D.* Extraction system of 16 pumping wells.

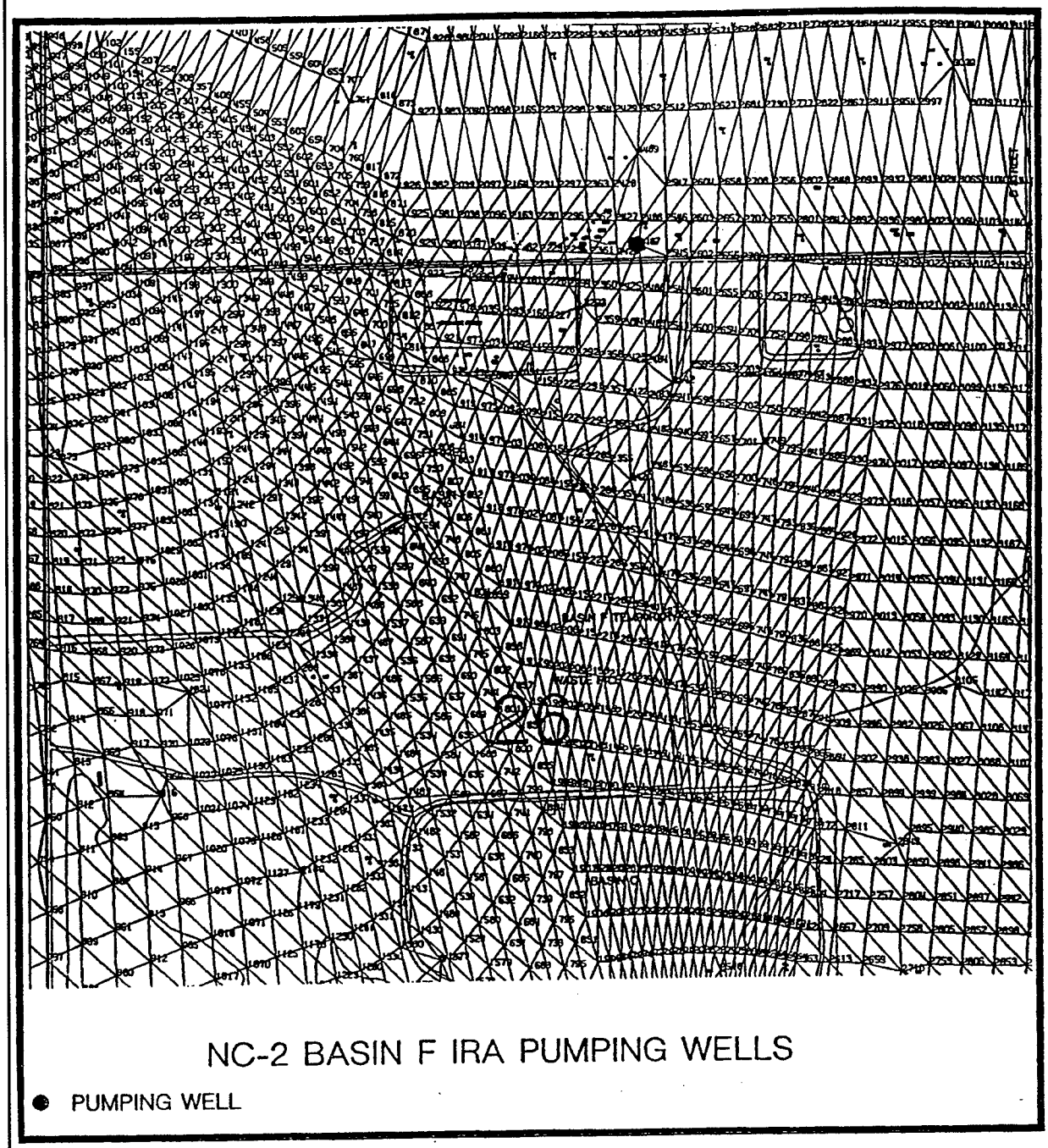


Figure 29. Remedial alternative NC-2

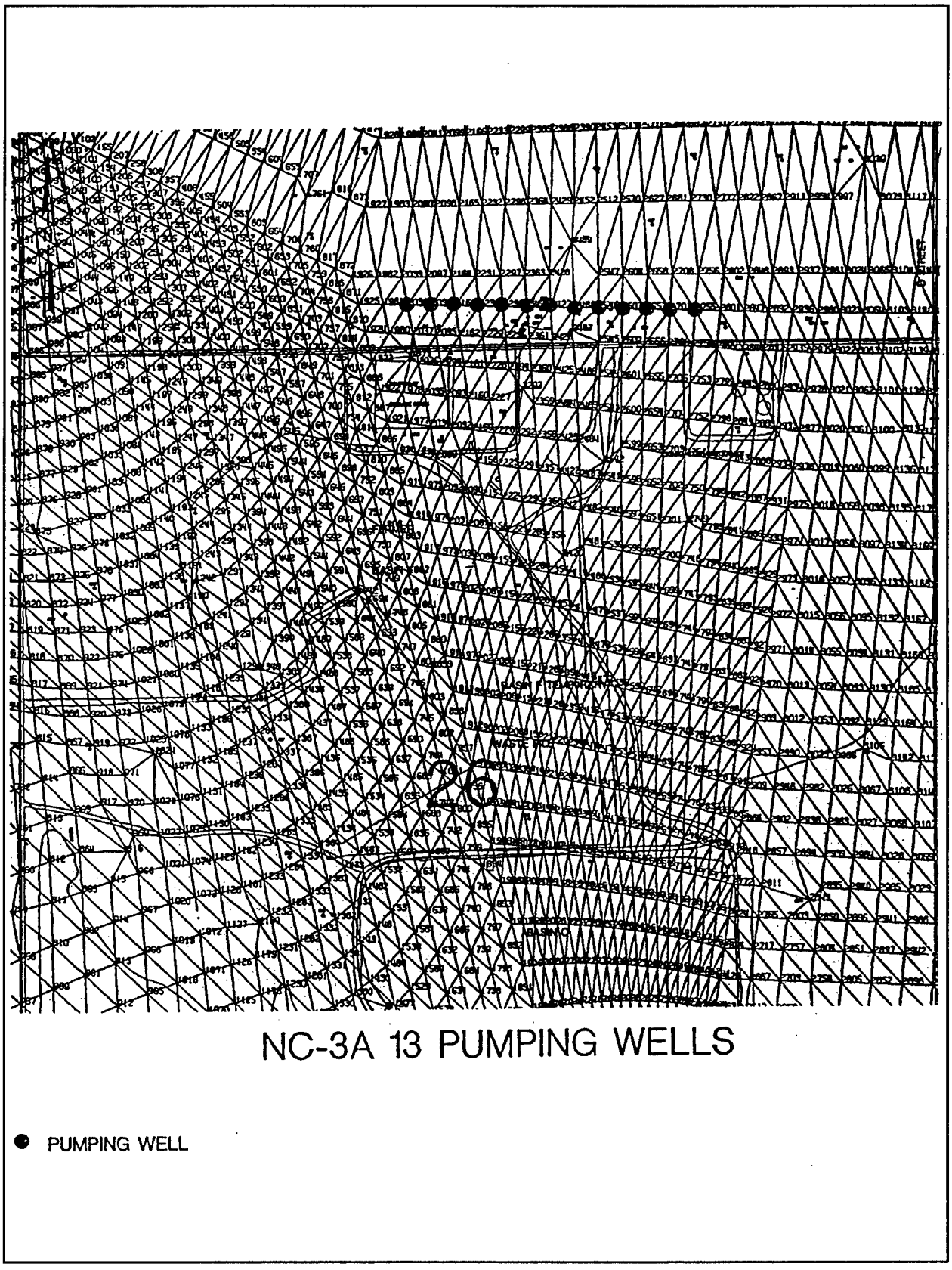


Figure 30. Remedial alternative NC-3A

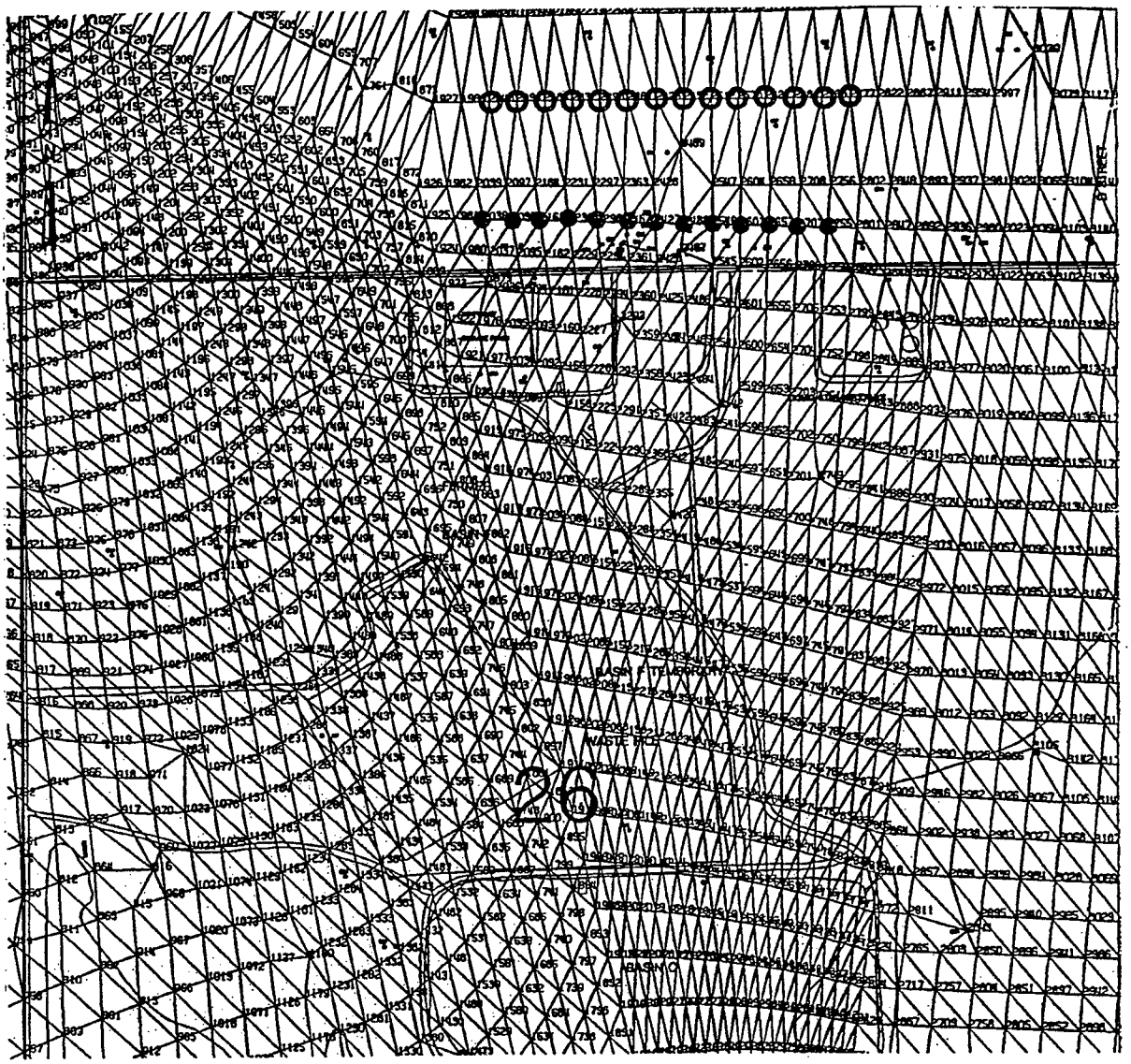


Figure 31. Remedial alternative NC-3B

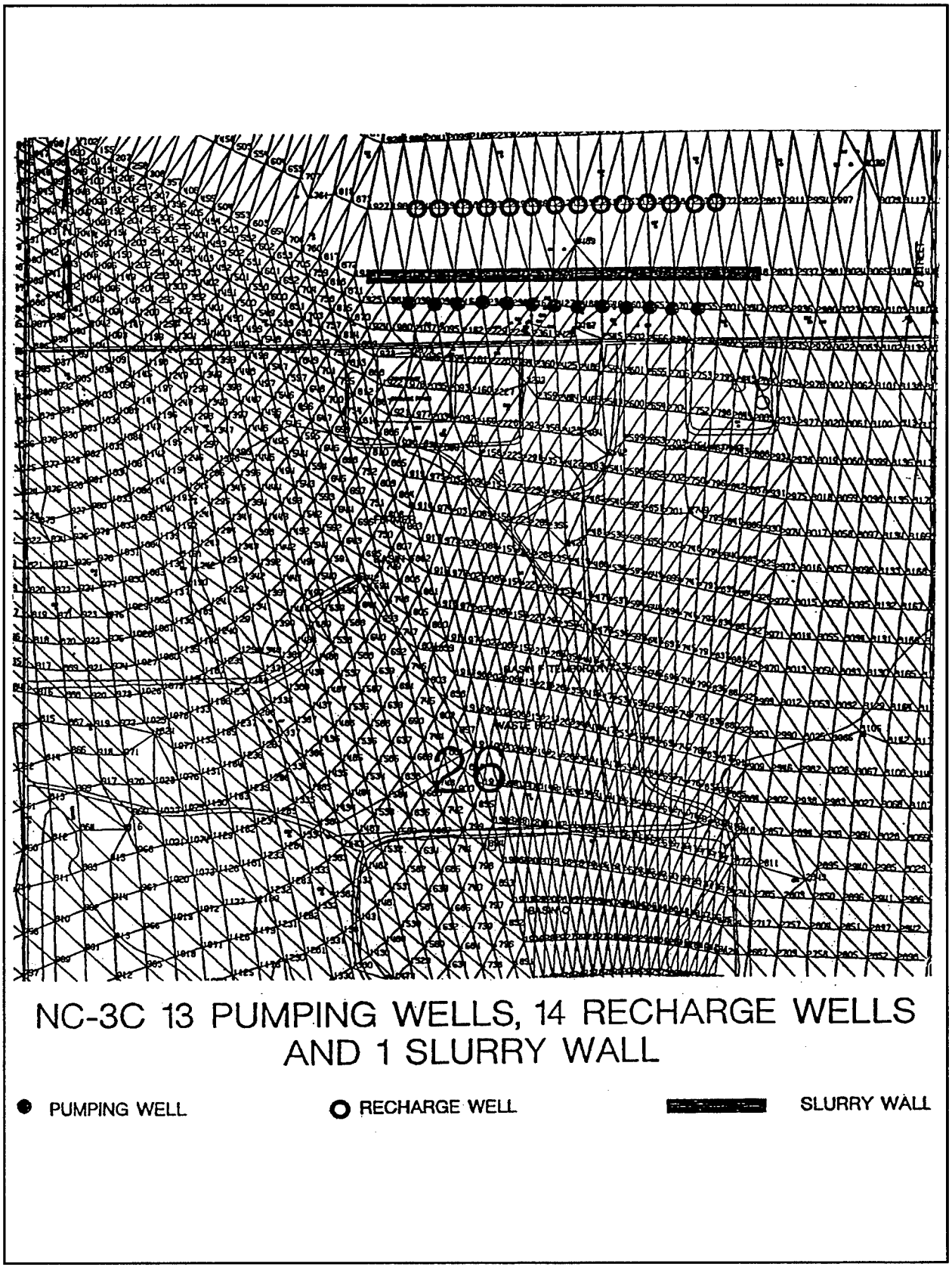


Figure 32. Remedial alternative NC-3C

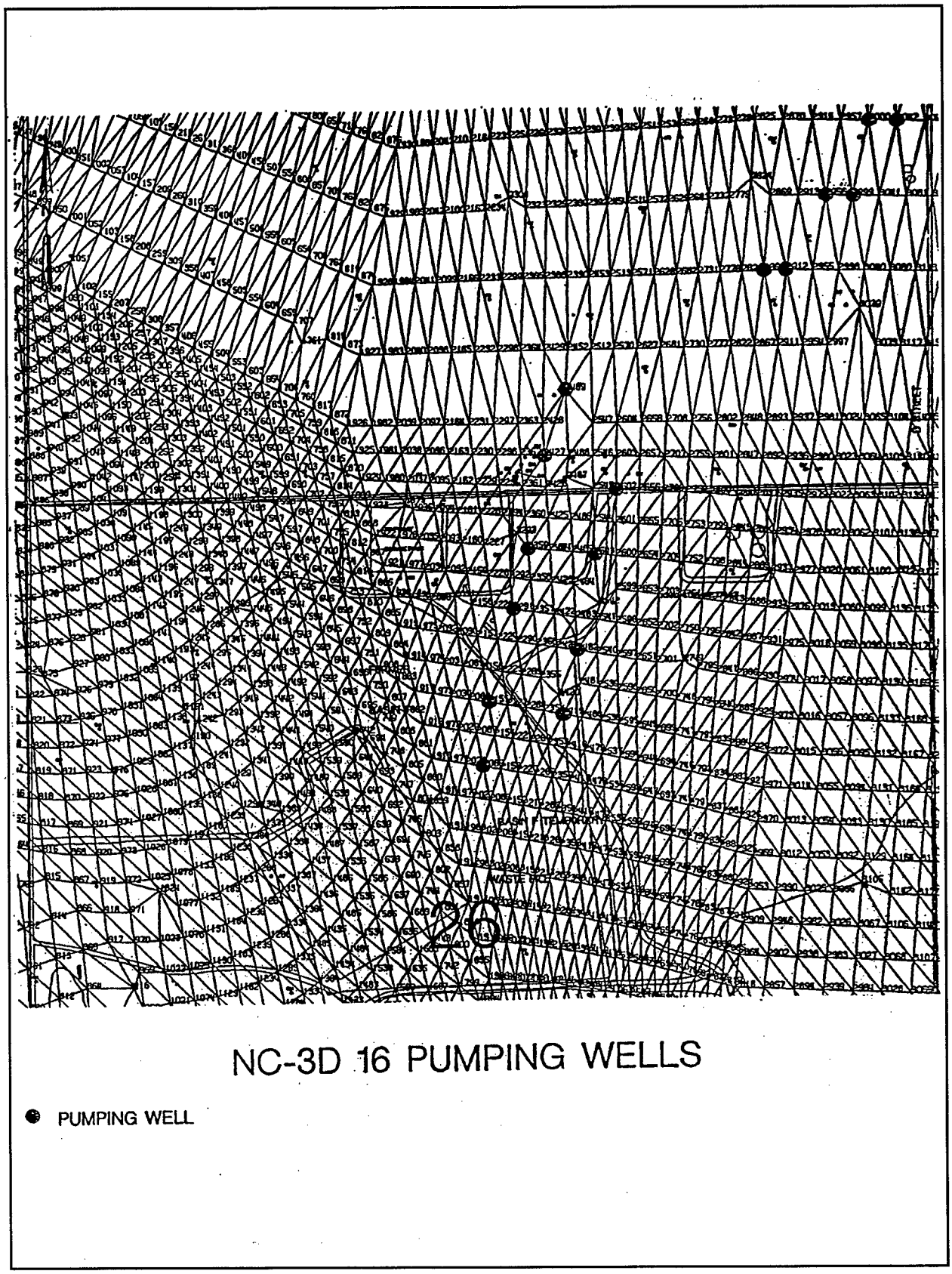


Figure 33. Remedial alternative NC-3D

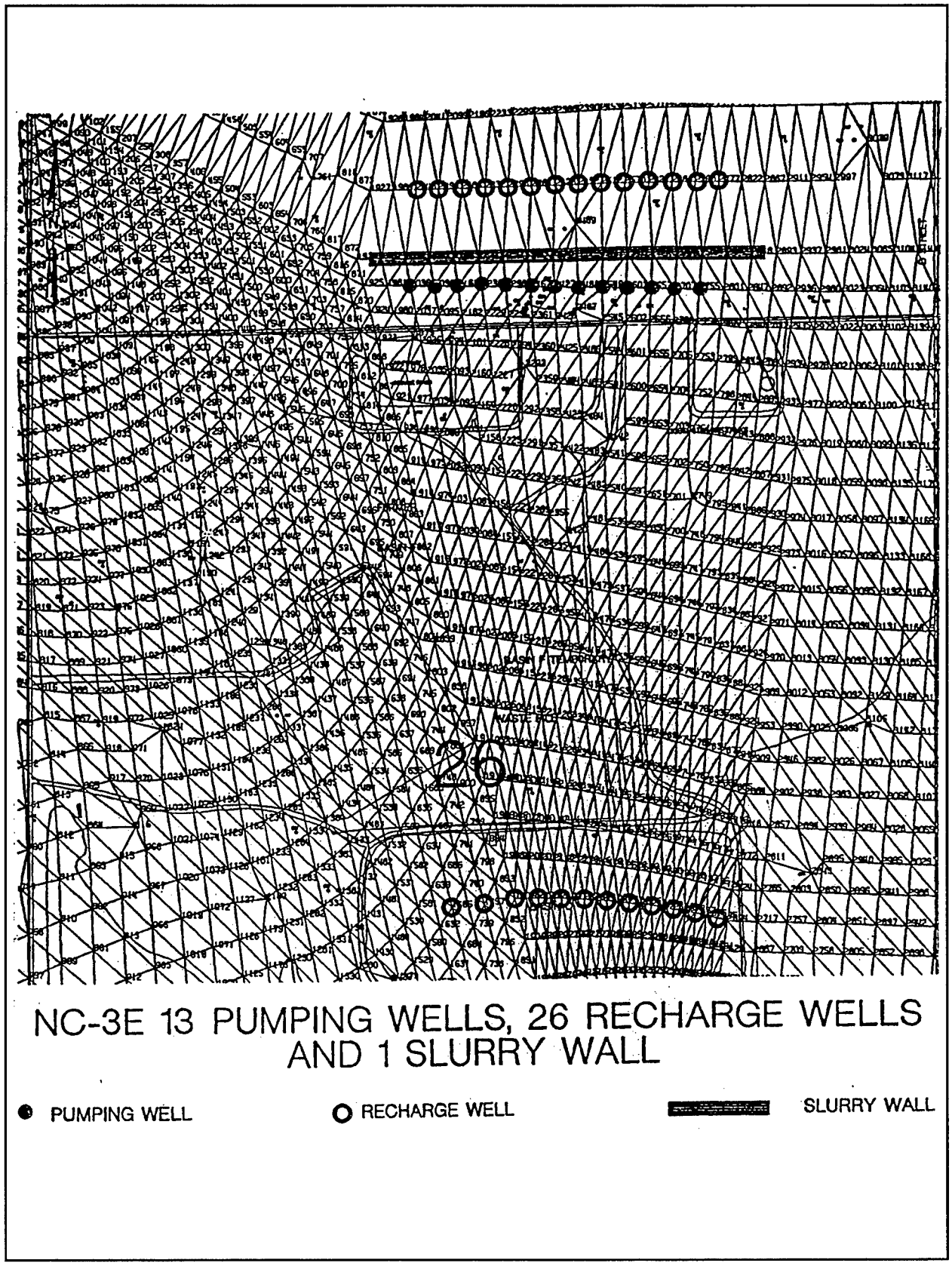


Figure 34. Remedial alternative NC-3E

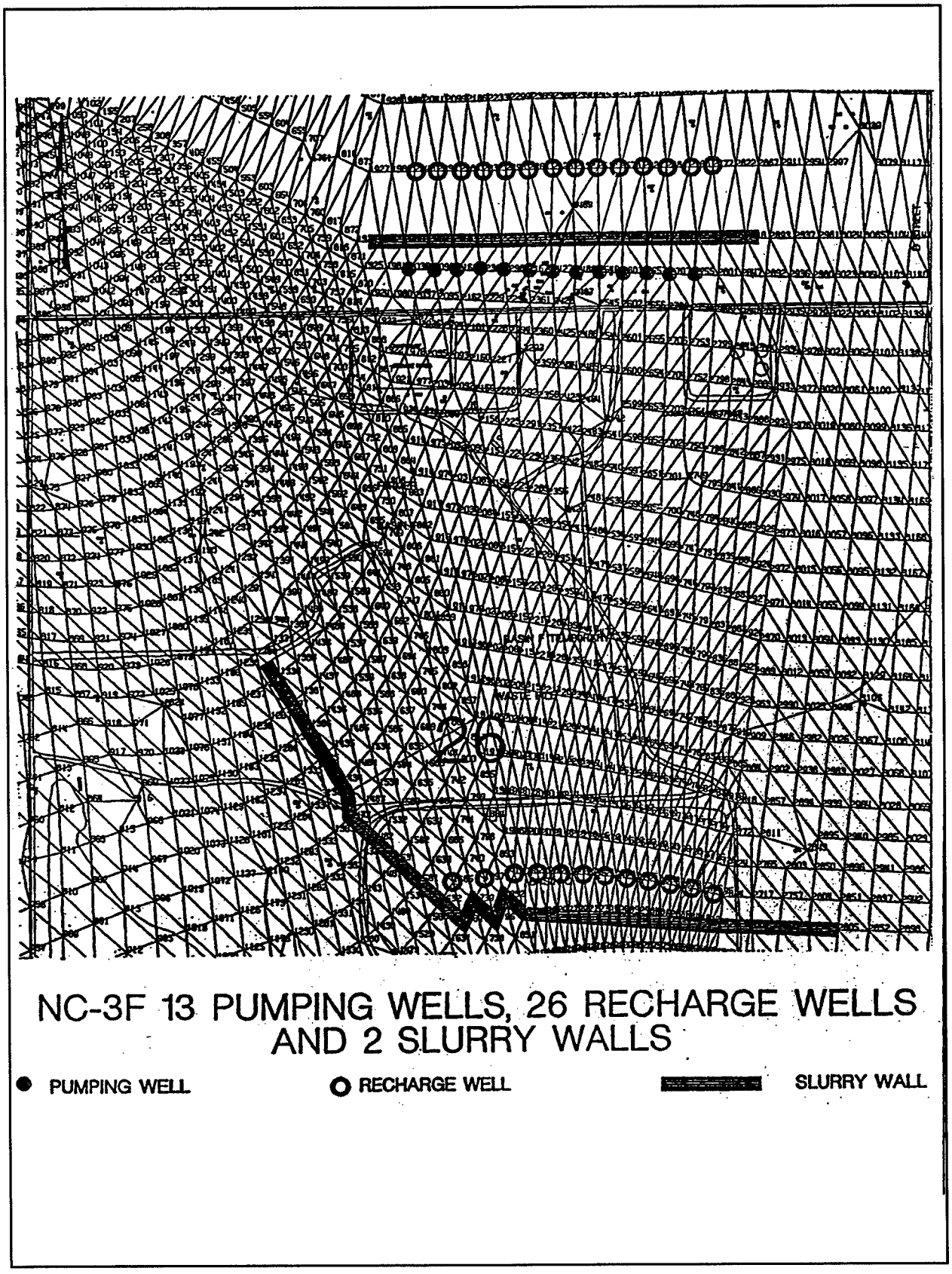


Figure 35. Remedial alternative NC-3F

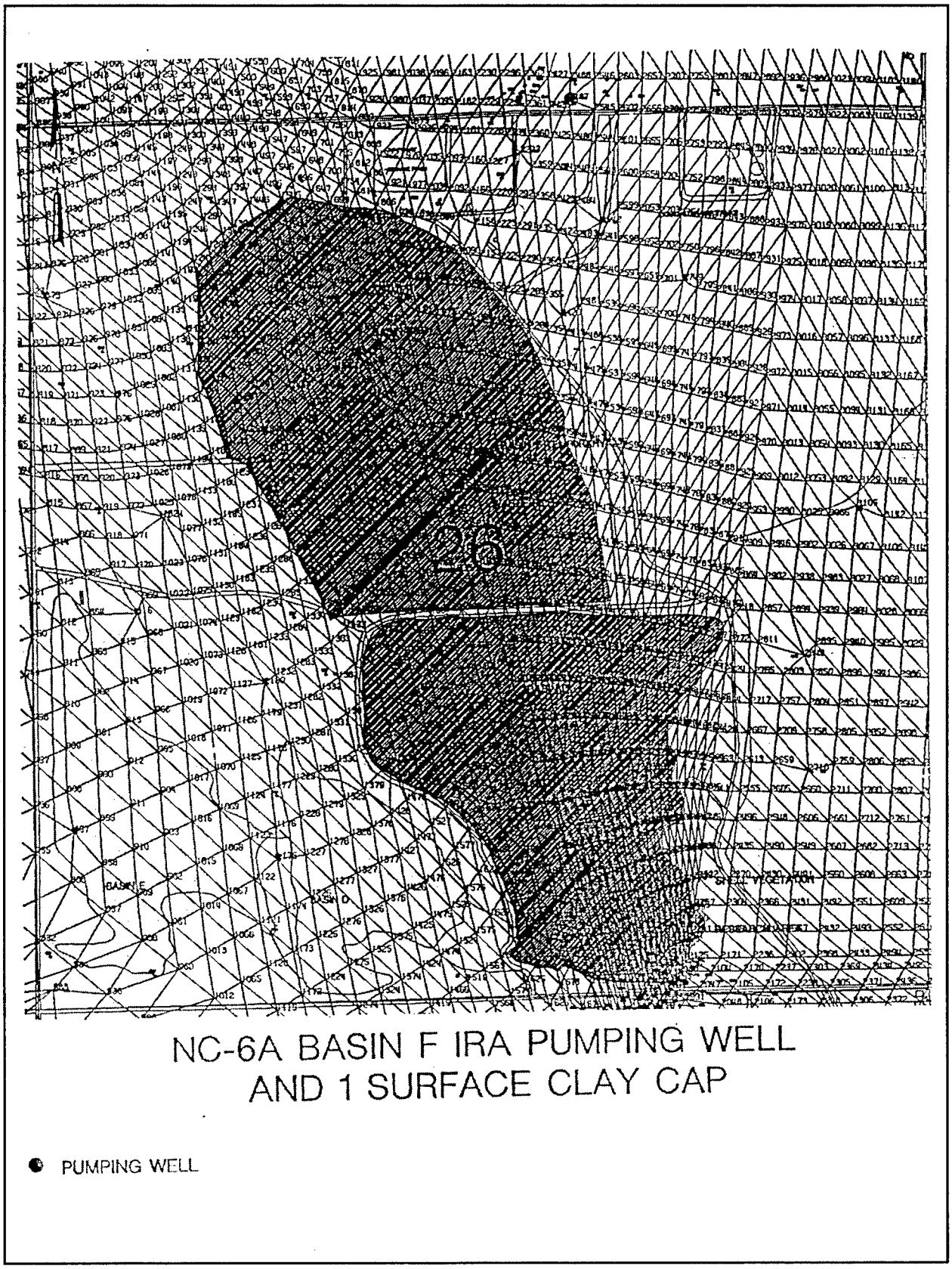


Figure 36. Remedial alternative NC-6A

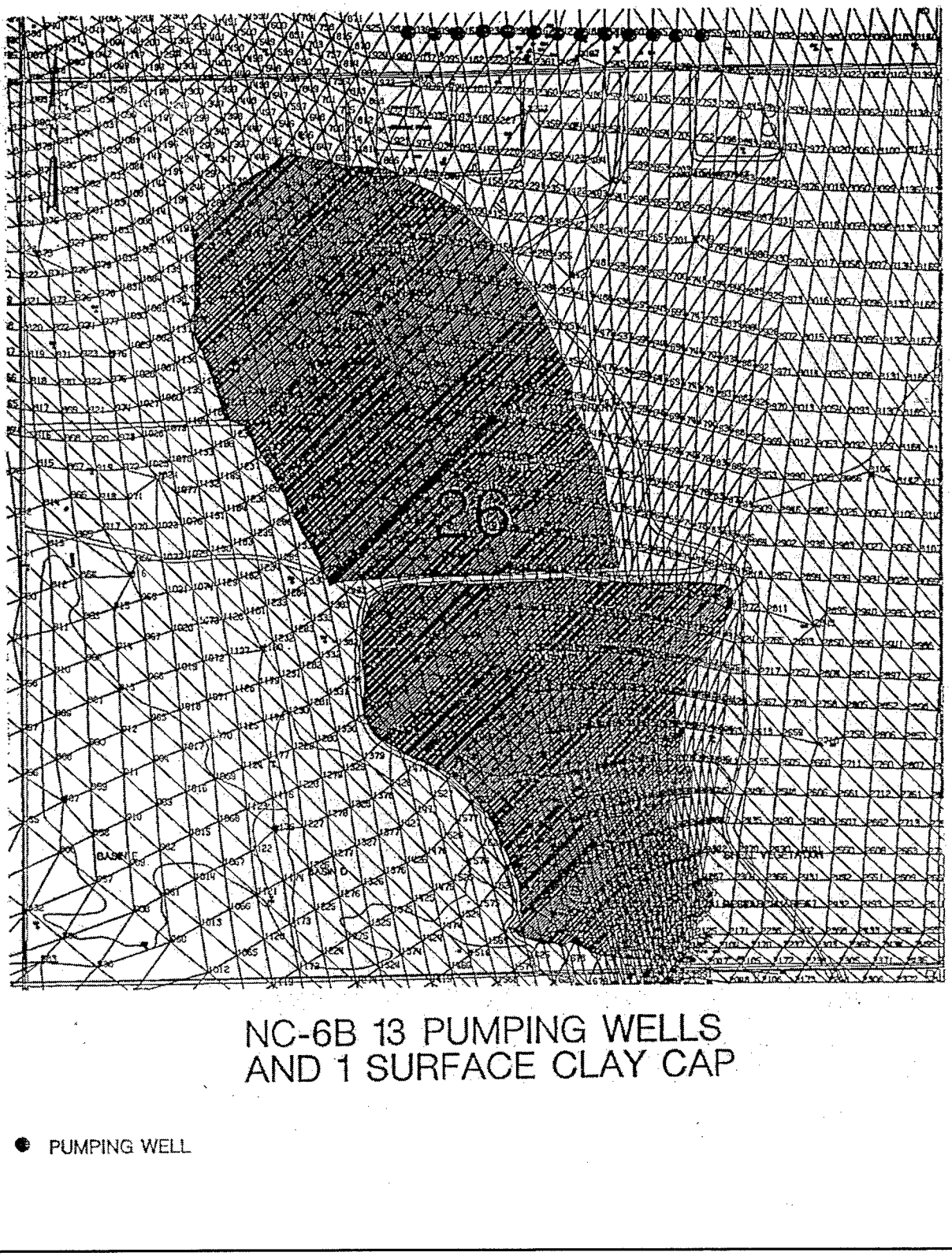


Figure 37. Remedial alternative NC-6B

f. *NC-3E.* Extraction, recharge, and slurry wall system of simulation NC-3C, with 12 additional recharge wells.

g. *NC-3F.* Extraction, recharge, and slurry wall system of simulation NC-3E, with an additional slurry wall.

h. *NC-6A.* Existing Basin F IRA pumping well with a clay cap over Basins F and C.

i. *NC-6B.* Extraction system of 13 pumping wells, with a clay cap over Basins F and C.

Simulation Approach

The approach taken for each simulation was to fix the water level elevation (constant head) at each extraction well to establish the flux to the well. The resulting flux of the extraction system must be sufficient to provide contaminant (particle) capture at the extraction wells. Contaminant capture is verified with a particle-tracking program. If the extraction rate is not sufficient to provide particle capture, then the ground-water elevations at the pumping wells are lowered and the process is repeated. The extracted water is recharged at specified locations at a rate equivalent to the extraction system rate. For simulations with slurry walls, the walls are simulated as having a thickness of three feet and a conductivity equivalent to 10^{-7} cm/sec. The clay cap covering Basin F and C was simulated by setting the effective recharge from precipitation to zero on the capped areas.

Simulation Results

The resulting pumping and recharge rates from the simulation of each remedial alternative are shown in Tables 12 through 20. The remedial alternatives have no major impact on the overall subregional groundwater flow within the model area or on the present contamination control systems. Because of the minor effect of the alternatives on the overall flow system, they will not be discussed individually or in any detail. The results from simulation of alternative NC-3A and NC-3B indicate that more water is flowing across the 9th Avenue northward from the Basin F area than was previously reported. Because the flow rate is a function of the hydraulic conductivity and the saturated thickness, the model indicates that both these parameters should be verified in the area of these alternatives. The bedrock and USF base elevations drive the saturated thickness, and it is this parameter which is most important to verify.

The quantitative results provided from the simulation of each alternative are within a reasonable margin of error and can be used for the relative comparison of the remedial alternatives to aid in the remedial alternative selection process.

Table 12
Alternative NC-2 Simulation Results

Well No.	Location		Pumping rate (gpm)
	X-Coord (ft)	Y-Coord (ft)	
23311	2181488	191226	4.713

Table 13
Alternative NC-3A Simulation Results

Well No.	Location		Pumping rate (gpm)
	X-Coord (ft)	Y-Coord (ft)	
P1	2180519	191392	1.25
P2	2180659	191387	0.50
P3	2180800	191383	0.50
P4	2180940	191378	0.50
P5	2181080	191374	0.50
P6	2181221	191369	0.50
P7	2181361	191365	0.50
P8	2181501	191360	0.50
P9	2181642	191356	0.50
P10	2181782	191352	0.75
P11	2181923	191348	1.00
P12	2182063	191344	1.00
P13	2182203	191339	1.75
Total			9.75

Table 14
Alternative NC-3B Simulation Results

Pumping				Recharge			
	Location				Location		
Well No.	X-Coord (ft)	Y-Coord (ft)	Rate (gpm)	Well No.	X-Coord (ft)	Y-Coord (ft)	Rate (gpm)
P1	2180519	191392	1.25	RW1	2180546	191984	0.696
P2	2180659	191387	0.50	RW2	2180682	191984	0.696
P3	2180800	191383	0.50	RW3	2180817	191984	0.696
P4	2180940	191378	0.50	RW4	2180953	191985	0.696
P5	2181080	191374	0.50	RW5	2181089	191985	0.696
P6	2181221	191369	0.50	RW6	2181224	191986	0.696
P7	2181361	191365	0.50	RW7	2181360	191986	0.696
P8	2181501	191360	0.50	RW8	2181495	191987	0.696
P9	2181642	191356	0.50	RW9	2181631	191988	0.696
P10	2181782	191352	0.75	RW10	2181766	191989	0.696
P11	2181923	191348	1.00	RW11	2181902	191990	0.696
P12	2182063	191344	1.00	RW12	2182037	191990	0.696
P13	2182203	191339	1.75	RW13	2182173	191992	0.696
				RW14	2182309	191992	0.696
Total			9.75	Total			9.75

Table 15
Alternative NC-3C Simulation Results

Pumping				Recharge			
	Location				Location		
Well No.	X-Coord (ft)	Y-Coord (ft)	Rate (gpm)	Well No.	X-Coord (ft)	Y-Coord (ft)	Rate (gpm)
P1	2180519	191392	1.084	RW1	2180546	191984	0.798
P2	2180659	191387	0.423	RW2	2180682	191984	0.798
P3	2180800	191383	0.421	RW3	2180817	191984	0.798
P4	2180940	191378	0.521	RW4	2180953	191985	0.798
P5	2181080	191374	0.578	RW5	2181089	191985	0.798
P6	2181221	191369	0.378	RW6	2181224	191986	0.798
P7	2181361	191365	0.673	RW7	2181360	191986	0.798
P8	2181501	191360	0.106	RW8	2181495	191987	0.798
P9	2181642	191356	0.203	RW9	2181631	191988	0.798
P10	2181782	191352	0.877	RW10	2181766	191989	0.798
P11	2181923	191348	0.877	RW11	2181902	191990	0.798
P12	2182063	191344	1.061	RW12	2182037	191990	0.798
P13	2182203	191339	3.967	RW13	2182173	191992	0.798
				RW14	2182309	191992	0.798
Total			11.17	Total			11.17

Table 16
Alternative NC-3D Simulation Results

Well No.	Location		Pumping rate (gpm)
	X-Coord (ft)	Y-Coord (ft)	
P1	2183220	193365	22.479
P2	2183377	193362	23.590
P3	2182977	192904	7.343
P4	2183130	192902	4.740
P5	2182633	192448	4.189
P6	2182759	192450	3.652
P7	2181480	191746	2.192
P8	2181361	191365	0.003
P9	2181780	191152	0.371
P10	2181264	190806	0.786
P11	2181651	190765	1.287
P12	2181177	190438	0.263
P13	2181550	190187	1.800
P14	2181029	189888	0.011
P15	2181465	189808	0.413
P16	2181197	189464	0.084
Total			73.20

Table 17
Simulation NC-3E Simulation Results

Pumping				Recharge			
	Location				Location		
Well No.	X-Coord (ft)	Y-Coord (ft)	Rate (gpm)	Well No.	X-Coord (ft)	Y-Coord (ft)	Rate (gpm)
P1	2180519	191392	1.322	RW1	2180546	191984	0.484
P2	2180659	191387	0.424	RW2	2180682	191984	0.484
P3	2180800	191383	0.407	RW3	2180817	191984	0.484
P4	2180940	191378	0.516	RW4	2180953	191985	0.484
P5	2181080	191374	0.579	RW5	2181089	191985	0.484
P6	2181221	191369	0.567	RW6	2181224	191986	0.484
P7	2181361	191365	0.368	RW7	2181360	191986	0.484
P8	2181501	191360	0.043	RW8	2181495	191987	0.484
P9	2181642	191356	0.391	RW9	2181631	191988	0.484
P10	2181782	191352	0.911	RW10	2181766	191989	0.484
P11	2181923	191348	0.908	RW11	2181902	191990	0.484
P12	2182063	191344	1.101	RW12	2182037	191990	0.484
P13	2182203	191339	4.570	RW13	2182173	191992	0.484
				RW14	2182309	191992	0.484
				RW15	2180767	187702	0.484
				RW16	2180957	187715	0.484
				RW17	2181136	187747	0.484
				RW18	2181272	187748	0.484
				RW19	2181407	187744	0.484
				RW20	2181541	187737	0.484
				RW21	2181673	187726	0.484
				RW22	2181804	187710	0.484
				RW23	2181934	187692	0.484
				RW24	2183662	187669	0.484
				RW25	2182188	187642	0.484
Total			12.11	Total			12.11

Table 18
Alternative NC-3F Simulation Results

Pumping				Recharge			
	Location				Location		
Well No.	X-Coord (ft)	Y-Coord (ft)	Rate (gpm)	Well No.	X-Coord (ft)	Y-Coord (ft)	Rate (gpm)
P1	2180519	191392	0.981	RW1	2180546	191984	0.415
P2	2180659	191387	0.340	RW2	2180682	191984	0.415
P3	2180800	191383	0.167	RW3	2180817	191984	0.415
P4	2180940	191378	0.134	RW4	2180953	191985	0.415
P5	2181080	191374	0.371	RW5	2181089	191985	0.415
P6	2181221	191369	0.396	RW6	2181224	191986	0.415
P7	2181361	191365	0.031	RW7	2181360	191986	0.415
P8	2181501	191360	0.504	RW8	2181495	191987	0.415
P9	2181642	191356	0.275	RW9	2181631	191988	0.415
P10	2181782	191352	0.860	RW10	2181766	191989	0.415
P11	2181923	191348	0.006	RW11	2181902	191990	0.415
P12	2182063	191344	1.947	RW12	2182037	191990	0.415
P13	2182203	191339	4.763	RW13	2182173	191992	0.415
				RW14	2182309	191992	0.415
				RW15	2180766	187701	0.415
				RW16	2180957	187715	0.415
				RW17	2181135	187747	0.415
				RW18	2181272	187747	0.415
				RW19	2181407	187744	0.415
				RW20	2181540	187736	0.415
				RW21	2181673	187725	0.415
				RW22	2181804	187710	0.415
				RW23	2181933	187691	0.415
				RW24	2182061	187668	0.415
				RW25	2182188	187642	0.415
				RW26	2182314	187612	0.415
Total			10.78	Total			10.78

Table 19
Alternative NC-6A Simulation Results

Well No.	Location		Pumping rate (gpm)
	X-Coord (ft)	Y-Coord (ft)	
23311	2181488	191226	4.367

Table 20
Alternative NC-6B Simulation Results

Well No.	Location		Pumping rate (gpm)
	X-Coord (ft)	Y-Coord (ft)	
P1	2180519	191392	0.948
P2	2180659	191387	0.157
P3	2180800	191383	0.155
P4	2180940	191378	0.195
P5	2181080	191374	0.125
P6	2181221	191369	0.013
P7	2181361	191365	0.011
P8	2181501	191360	0.019
P9	2181642	191356	0.015
P10	2181782	191352	0.020
P11	2181923	191348	0.029
P12	2182063	191344	0.038
P13	2182203	191339	0.483
Total			2.21

8 Summary and Conclusions

A numerical model of the Basin F subregional groundwater flow at RMA has been constructed as an evaluation tool for comparison of the preliminary design of proposed remedial alternatives and the affect of remedial alternatives on future subregional groundwater flow conditions. The groundwater model simulates steady-state and transient, two-dimensional areal flow in the UFS that is comprised of shallow alluvium and upper weathered Denver Fm materials. The hydraulic conductivity of the alluvium ranged from 2 to 1,500 ft/day. The weathered upper Denver Fm hydraulic conductivity ranged from 0.1 to 14 ft/day. The storage coefficients used for saturated and unsaturated alluvium are 0.25 and 0.05, respectively. All parameter values were within the range of observed or published data.

Sources of water to the UFS include precipitation infiltration and recharge from Denver Fm subcropping sands. The boundary conditions of the study area were modeled as constant-head boundaries and prescribed fluxes. The model domain encompasses approximately 3.6 square miles. The study area's northern and western boundaries are aligned with the NBCTS and the NWBCS. Model calibration and simulation runs are made with CSU finite element code (GW Flow). Steady-state model calibration was based on summer 1990 water-table elevations of 74 observation wells. Transient model verification was based on six quarters of water-level elevations at 74 observation wells ending with the 2nd Quarter fiscal year 1992. There was a good comparison between model calculated and observed water levels over most of the modeled area. Model water budget (mass balance) components, however, were not directly comparable over the entire study area because of limited data, but there was good comparison at the NBCTS, NWBCS, and Basin A Neck System.

The response of the model to adjustments of input parameters was evaluated by sensitivity analysis. The model calibration results degenerate with moderate changes in hydraulic conductivity and recharge rates. Therefore, the model is sensitive to adjustments in these parameters. Significant modifications to these sensitive parameters would probably require a new calibration of the model.

After steady-state calibration and transient verification, the groundwater model was used to evaluate proposed remedial alternatives. Nine remedial alternatives were simulated in an effort to evaluate the ability of each alternative to control contaminated groundwater flow, and impact on future groundwater flow conditions. It should be emphasized that the ability of the calibrated model to replicate past ground water conditions does not necessarily verify its ability to predict future conditions. The simulation is subject to various uncertainties and

assumptions inherent in groundwater modeling process. The simulation results should be regarded as estimates based on currently available data. As new information and data are acquired or revisions in the assumed conceptual model are made, the model should be updated and, if necessary, recalibrated.

The following conclusions are made from the Basin F subregional groundwater flow modeling study.

a. The upper Denver Fm is an important part of the UFS. In areas of totally unsaturated alluvium the upper weathered Denver Fm provides a mechanism for groundwater flow and contaminant transport through the UFS.

b. The general direction of groundwater movement within the study area is southeast to northwest. The southeast to northwest flow direction has local variability and is affected by the operation of current containment systems.

c. The overall effect and influence of recharge from Denver Fm subcropping sands to the UFS is small, but in some local areas the recharge from these sands can be critical to groundwater flow within the UFS.

d. Steady-state calibration results indicate that the largest source of recharge and discharge to the UFS within the study area is boundary underflow which is the result of established regional groundwater movement through the study area. The North Boundary and Northwest Boundary containment systems combined represent the second largest discharge from the UFS from the study area.

e. The uncertainty of input parameters (e.g, water-table elevation, bedrock surface elevation, UFS base elevation, hydraulic conductivity, boundary inflows, areal recharge, pumping rates) used for this modeling effort is typical of most modeling efforts. This modeling effort indicates the need for setting quality-control standards for all data. Uniform data standards will decrease the amount of data uncertainty.

f. Simulations with the calibrated model produced approximate flows in the Basin F area that were different from values reported in previous studies. The difference in flow is primarily because previous studies did not model flow in the weathered Denver Fm in this area.

g. The quantitative results provided are within a reasonable margin of error and can be used as part of the remedial alternative selection process. They should not be the sole basis for the design of any remedial systems.

9 Recommendations

Based on a review of the results of this modeling effort, the following recommendations are made.

a. The RMA program manager should institute a system that standardizes and establishes quality controls for all data collected as part of the RMA contamination remediation effort, before it becomes part of the RMA official data base.

b. A study should be undertaken to close all data gaps within the RMA boundary, specifically along major contamination pathways. All data parameters associated with groundwater flow along major pathways must be defined within a range of accuracy, if accurate groundwater flow and contaminant transport analyses are expected.

c. The base of the UFS must be accurately defined in areas where new control systems are planned. The amount of weathering or fracturing to the Denver Fm is proportional to the quantities of groundwater flow through the UFS. The saturated thickness of the upper Denver Fm can differ by as much as 30 ft depending on how the base of the UFS is defined.

d. The flow parameters of the weathered upper Denver Fm should be better defined, especially along major contamination transport pathways.

e. The bedrock and base elevation of the UFS in the area of Basin F northward across 9th Avenue need to be accurately defined. The quantity of flow crossing 9th Avenue from the Basin F area is dependent on the bedrock and base elevations which define the saturated thickness of the UFS. Three different data sources give three different elevations for the same area which is a reflection of the data uncertainty.

f. The conceptual model of the groundwater flow system at RMA must be accurately defined. The revised regional model does not simulate flow through the weathered Denver Fm except in areas where the alluvium is unsaturated. The Basin F Subregional Model simulates flow through the weathered Denver Fm in all the modeled area.

g. The design of remedial alternatives should be based on the analysis of additional data collected at proposed remedial sites along with the results of this modeling effort. Additional data would close some data gaps, reduce data uncertainty, and possibly increase design accuracy.

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Appendix A
GWFLOW Computer Code

```
      PROGRAM GWFLOW
C**** UPDATE MAY,6 92 CHANGE OUTPUT TO GALLONS & June,4 to Double
Precsision****
C**** UPDATE June,5 for updating constant head 2&3 at the 4th quarter**********
C*****GWFCNG
C     ****************************************************************
C     *                                                              *
C     *  THIS MODEL SIMULATES 2-DIMENSIONAL GROUNDWATER FLOW.        *
C     *  NUMERICAL SOLUTION BY THE GALERKIN FINITE ELEMENT METHOD    *
C     *  USING TRIANGULAR ELEMENTS AND LINEAR SHAPE FUNCTIONS.       *
C     *  WRITTEN AND PROGRAMMED BY JAMES WARNER, DEPARTMENT OF CIVIL *
C     *  ENGINEERING, COLORADO STATE UNIVERSITY, FORT COLLINS, COLO. *
C     *    UNIT 11 = INPUT DATA FILE (*.INP)                         *
C     *    UNIT 12 = OUTPUT ECHO OF INPUT DATA (*.ECH)               *
C     *    UNIT 13 = OUTPUT FOR RESIDUAL HEADS (*.DAT)               *
C     *    UNIT 7 = OUTPUT RESULTS FILE (*.RES)                      *
C     *    UNIT 8 = OUTPUT HEAD/DRAWDOWN SURFACE FILE (*.SRF)        *
C     *    UNIT 9 = OUTPUT HEAD FILE FOR SURFER      (*.DAT)         *
C     *  VERSION 1.0                                                 *
C     MODIFIED BY ABDEL-RAHMAN A. A. FOR THE CRAY Y-MP SUPER-COMPUTER
C     ****************************************************************
      PARAMETER (NNP=3500,NEL=7000,IB=75,NBS=200)
      IMPLICIT REAL*8(A-H,O-Z)
C
      COMMON /BLOCKA/ NUMNP,X(NNP),Y(NNP),NUMEL,NI(NEL),NJ(NEL),
     1NK(NEL),TITLE(20),IBAND,IFLAG(5),TOL,RELAX
      COMMON /BLOCKB/ NTIM,NPMP,PINT,TIMX,TINIT,TPDAY,SUMT,
     1TDEL,TIMY
      COMMON /BLOCKC/NCODNP,NODEID(NNP),TRANS(NNP),HYDK1(NNP),THCK(NNP),
     1REC(NNP),SC(NNP),S,HEAD(NNP),HDI(NNP)
      COMMON /BLOCKD/ NCODEL,IDELEM(NEL),RECH(NEL),VPRM(NEL),AREA(NEL),
     +              HDLEAK(NEL)
      COMMON /BLOCKE/ AF(NNP,IB),BF(NNP,IB),DF(NNP),CM(NNP,IB),RHS(NNP)
      COMMON /BLOCKF/QINRCH,QOUTRCH,QINREC,QOUTREC,QINCHN,QOUTCHN,
     1QINLEK,QOUTLEK,QSTOR,QINGHB,QOUTGHB,QINDR,QOUTDR
      COMMON /BLOCKG/ NUMBS,NGHB(NBS,2),GHBCOND(NBS),GHBHEAD(NBS),
     1SLENGTH(NBS),QGHB(NBS),QBSNODE(NNP),QDR(NNP),DRCOND(NNP),
     2DRELEV(NNP)
      COMMON /BLOCKH/ PRINTIT
      COMMON /BLOCKO/ NOBSW(300),OBSH(300),NUMOB
      CHARACTER*1 PRINTIT
      COMMON /BLOCKT/GS(NNP),ZBED(NNP),ZBASE(NNP),HYDK2(NNP)
      INTEGER NOBSW,NUMOB
C     REAL TARRAY(2)
C
C     INCLUDE 'MSFGRPH'
```

```
C
C    READ INPUT DATA
C
     CALL INPUT
C     BEFORE=SECOND(TARRAY)
C    START COMPUTATIONS
C
     NCALL = 1
C
C    CALCULATE LENGTH OF TIME STEP
C
     SUMT = 0.
     TPDAY = 0.
     DO 120 INT = 1,NPMP
       TIM = TINIT/86400.

     TPDAY = TPDAY + PINT
       DO 100 NT = 1,NTIM
         TINT = TPDAY - SUMT + .0000001
         TEPS = ABS(TINT - TIM)
         IF (TEPS.LT..0001) TIM = TINT
         TDEL = AMIN1(TIM,TINT)
         IF (S.EQ.0.) TDEL = 1.0
         SUMT = SUMT + TDEL
         TIMY = SUMT/365.25
         TIM = TIM * TIMX
         CALL ELINTF (NCALL)
         IF (IFLAG(2).EQ.1) CALL MATFLOW
         IF (IFLAG(2).EQ.0) CALL MATSOL
         CALL WATBAL
         IF (S.EQ.0.) GO TO 110
         IF (SUMT.GE.TPDAY) GO TO 110
         NCALL = NCALL + 1
 100   CONTINUE
 110   CONTINUE
       IF(PRINTIT .EQ. 'Y') CALL FLOWOUT
       ICALL = INT + 1
       IF (ICALL .LE. NPMP) CALL UPDATE
 120 CONTINUE
C>>>
```

```
      DIFF = OBSH(I)-HEAD(J)
      WRITE (13,1820) NOBSW(I),OBSH(I),HEAD(J),X(J),Y(J),DIFF
 1820 FORMAT (I10,5F10.3)
     ENDIF
 1805 CONTINUE
 1810 CONTINUE
C>>>
```

```
C
      WRITE (*,60)
   60 FORMAT (//,
     +12X'--- Name the output Echo filename(.ECH) (echo of input) ---')
      EXTEN = '.ECH'
      STATE = 'NEW'
      CALL FILWRK(STATE,EXTEN,FNAMEX)
      OPEN (12,FILE=FNAMEX)
C
      WRITE (*,70)
   70 FORMAT (//,
     +12X'      --- Name the output Results filename(.RES) ---')
      EXTEN = '.RES'
      STATE = 'NEW'
      CALL FILWRK(STATE,EXTEN,FNAMEX)
      OPEN (7,FILE=FNAMEX)
C
      WRITE (*,80)
   80 FORMAT(//
     +12X' --- Name the output Surface filename(.SRF) (head,etc.) ---')
      EXTEN = '.SRF'
      STATE = 'NEW'
      CALL FILWRK(STATE,EXTEN,FNAMEX)
      OPEN (8,FILE=FNAMEX)
C
      WRITE (*,90)NNP,NEL,IB,NBS
   90 FORMAT(//' PROGRAM GWFLOW HAS THE FOLLOWING MAXIMUM DIMENSIONS:'//
     1'        NUMBER OF NODAL POINTS      = ',I5,/
     2'        NUMBER OF ELEMENTS          = ',I5,/
     3'        BANDWIDTH                   = ',I5,/
     4'        NUMBER OF BOUNDARY SEGMENTS = ',I5,/)
C
C     ***********************************************************************
      AREATOT = 0.
      IBAND = 0
      QINRCH = 0.
      QOUTRCH = 0.
      QINREC = 0.
      QOUTREC = 0.
      QINCHN = 0.
      QOUTCHN = 0.
      QINLEK = 0.
      QOUTLEK = 0.
      QINGHB = 0.
      QOUTGHB = 0.
      QINDR = 0.
      QOUTDR = 0.
C
C     .....PRINT HEADING
      WRITE (12,100)
  100 FORMAT (///' ************************************************************
     1************************',/,
     2' *
     3          *',/,
     4' *  THIS MODEL SIMULATES 2-DIMENSIONAL GROUNDWATER FLOW.  NUMERIC
     5AL SOLUTION  *',/,
     6' *  BY THE GALERKIN FINITE ELEMENT METHOD USING TRIANGULAR ELEMEN
     7TS AND       *',/,
     8' *  LINEAR SHAPE FUNCTIONS.  WRITTEN AND PROGRAMMED BY JAMES WARN
     9ER, DEPT OF  *',/,
     1' *  CIVIL ENGINEERING, COLORADO STATE UNIVERSITY, FORT COLLINS, C
     2OLORADO.     *',/,
     3' *
     4          *'/,
     5' ***********************************************************************
```

```
   6**************')
C
C     .....READ TITLE CARD
      READ (11,110) TITLE
  110 FORMAT (20A4)
      WRITE (12,120) TITLE
  120 FORMAT (//1H ,20A4//)
      WRITE (8,110) TITLE
      WRITE (12,130)
  130 FORMAT (1H0,45X,21HI N P U T     D A T A/1H ,44X,23H----------
     1--------////)
C
C     .....READ TIME TIME PARAMETERS
C         NTIM = MAXIMUM NUMBER OF TIME STEPS
C         NPMP = NUMBER OF PUMPING PERIODS
C         PINT = FIRST PUMPING PERIOD IN DAYS
C         PRINTIT = PRINT OPTION FOR THE CURRENT PUMPING PERIOD
C         TIMX = TIME INCREMENT MULTIPLIER
C         TINIT = INITIAL TIME STEP IN SECONDS
C
      READ (11,110) TITLE
      READ (11,160)  NTIM,NPMP,PINT,PRINTIT,TIMX,TINIT
  160 FORMAT (2I5,F10.0,4X,A1,2F10.0)
      WRITE (12,170) NTIM,NPMP,PINT,PRINTIT,TIMX,TINIT
  170 FORMAT (///,23X,16HTIME  PARAMETERS//
     1 13X,48HNTIM    (MAXIMUM NUMBER OF TIME STEPS)        =,2X,I4/
     2 13X,48HNPMP    (NUMBER OF PUMPING PERIODS)           =,2X,I4/
     3 13X,48HPINT    (FIRST PUMPING PERIOD IN DAYS)        =,2X,F7.2/
     4 13X,48HPRINTIT (PRINT OPTION FOR FIRST PERIOD)       =,5X,A1  /
     5 13X,48HTIMX    (TIME INCREMENT MULTIPLIER)           =,2X,F7.2/
     6 13X,48HTINIT   (INITIAL TIME STEP IN SECONDS)        =,2X,F5.0)
C
C     .....READ SIMULATION OPTIONS
C         IFLAG1 = 0 (CONFINED AQUIFER
C         IFLAG1 = 1 (UNCONFINED AQUIFER)
C*        IFLAG1 = 2 (LEAKY AQUIFER)
C*        IFLAG1 = 3 (MODIFIED ONE LAYER MODEL)
C         IFLAG2 = 0 (SOLUTION BY GAUSS ELIMINATION)
C         IFLAG2 = 1 (SOLUTION BY POINT ITER. SUCCESSIVE OVER RELAXATIO
C         IFLAG3 = 0 (GWFLOW DATA SET -- MUST BE 0 FOR THIS PROGRAM)
C         TOL = ERROR TOLERANCE IN PISOR
C         RELAX = RELAXATION FACTOR IN PISOR
C
      READ (11,110) TITLE
      READ (11,180) IFLAG(1)
      READ (11,110) TITLE
      READ (11,180) IFLAG(2),TOL,RELAX
      READ (11,110) TITLE
      READ (11,180) IFLAG(3)
  180 FORMAT (I1,2F10.0)
      WRITE (12,190)
  190 FORMAT (///,23X,19HSIMULATION  OPTIONS/)
      IF (IFLAG(1).EQ.0) WRITE (12,200)
  200 FORMAT (18X,16HCONFINED AQUIFER)
      IF (IFLAG(1).EQ.1) WRITE (12,210)
  210 FORMAT (18X,18HUNCONFINED AQUIFER)
      IF (IFLAG(2).EQ.0) WRITE (12,220)
  220 FORMAT (18X,29HSOLUTION BY GAUSS ELIMINATION)
      IF (IFLAG(2).EQ.1) WRITE (12,230) TOL,RELAX
  230 FORMAT (18X,38HSOLUTION BY POINT ITERATIVE SUCCESSIVE/
     1 23X,25HOVER RELAXATION - (PISOR)/
     2 23X,38HTOL     (ERROR TOLERANCE)           =,2X,F11.6/
     3 23X,38HRELAX   (RELAXATION FACTOR)          =,2X,F7.2)
C
C     .....READ ELEMENT DESCRIPTORS
C         NUMNP = NUMBER OF NODAL POINTS
```

```
C        NUMEL = NUMBER OF ELEMENTS
C
      READ (11,110) TITLE
      READ (11,140) NUMNP,NUMEL
  140 FORMAT (2I5)
      IF (NUMNP .GT. NNP  .OR.  NUMEL .GT. NEL) THEN
        WRITE (*,145)
  145   FORMAT(///,20X,'***** E R R O R  -- # INP1 *****'//)
        STOP
        RETURN
      END IF
      WRITE (12,150) NUMNP,NUMEL
  150 FORMAT (///1H ,22X,'ELEMENT DISCRIPTORS'//
     113X,48HNUMNP   (NUMBER OF NODAL POINTS)              =,2X,I4/
     213X,48HNUMEL   (NUMBER OF ELEMENTS)                  =,2X,I4)
C
C     .....READ NODAL COORDINATES
      READ (11,110) TITLE
      READ (11,260) FCTR
  260 FORMAT (F10.0)
      READ (11,270) (NP,X(NP),Y(NP),I = 1,NUMNP)
  270 FORMAT (3(I5,2F10.0))
C
      DO 280 NP = 1,NUMNP
        X(NP) = X(NP) * FCTR
        Y(NP) = Y(NP) * FCTR
  280 CONTINUE
C
      WRITE (12,290)
  290 FORMAT (1H1,45X,21HI N P U T     D A T A/1H ,44X,23H----------
     1--------////1H0,5X,16HNODE COORDINATES/1H ,4X,18H----------
     2--/1H0,7X,2(4HNODE,5X,5HX LOC,7X,5HY LOC,13X)/)
      WRITE (12,300) (NP,X(NP),Y(NP),NP = 1,NUMNP)
  300 FORMAT (/( 8X,2(I5,F12.2,F12.2,12X)))
C
C     .....READ ELEMENT VERTICES
      READ (11,110) TITLE
      READ (11,310) (NE,NI(NE),NJ(NE),NK(NE),I = 1,NUMEL)
  310 FORMAT (4(4I5))
C
C     .....CALCULATE BANDWIDTH
      DO 320 I = 1,NUMEL
        IJ = IABS(NI(I) - NJ(I)) + 1
        IK = IABS(NI(I) - NK(I)) + 1
        JK = IABS(NJ(I) - NK(I)) + 1
  320 IBAND = MAX0(IBAND,IJ,IK,JK)
C
      WRITE (12,330)
  330 FORMAT (1H1,45X,21HI N P U T     D A T A/1H ,44X,23H----------
     1--------////1H0,5X,16HELEMENT VERTICES/1H ,4X,18H----------
     2--/1H0, 7X,2(7HELEMENT,3X,6HNODE I,2X,6HNODE J,2X,6HNODE K,7X)/)
      WRITE (12,340) (NE,NI(NE),NJ(NE),NK(NE),NE = 1,NUMEL)
  340 FORMAT (/( 7X,2(I5,5X,I5,3X,I5,3X,I5,8X)))
      WRITE (12,350) IBAND
  350 FORMAT (///,1H ,10X,11HBANDWIDTH =,I5)
C
      IF (IBAND .GT. IB) THEN
        WRITE (*,352)
  352   FORMAT(///,20X,'***** E R R O R  -- # INP2 *****'//)
        STOP
        RETURN
      END IF
C
C     .....CALCULATE ELEMENT AREAS
      DO 390 I = 1,NUMEL
        AREA(I) = ABS((X(NJ(I)) * Y(NK(I)) - X(NK(I)) * Y(NJ(I))
```

```
     1            + X(NK(I)) * Y(NI(I)) - X(NI(I)) * Y(NK(I))
     2            + X(NI(I)) * Y(NJ(I)) - X(NJ(I)) * Y(NI(I)))*.5
  390 AREATOT = AREATOT + AREA(I)
C
C     .....READ IDELEM ARRAY
C         RECH =DISTRIBUTED RECHARGE OR DISCHARGE IN FT**3/DAY/FT**2
C          "+" IS DISCHARGE(PUMPAGE), "-" IS RECHARGE(INJECTION)
C         RECH=FCTR1
C         VPRM =VERT.HYDRAULIC CONDUCTIVITY/THICKNESS OF CONFINING LAYE
C         VPRM=FCTR2
C         HDLEAK= CONSTANT HEAD LEVEL OVERLYING THE CONFINING LAYER
C         HDLEAK=FCTR3
C         NCODEL = NUMBER OF ELEMENT ID CODES TO BE DEFINED
C         SPECIFY OTHER CODES TO FIT YOUR NEEDS
C         *****NOTE: IF NCODEL < 0, THE FILE IS INCOMPLETE
      READ (11,110) TITLE
      READ (11,400) NCODEL
  400 FORMAT (I2)
      IF (NCODEL .LT. 0) THEN
        WRITE (*,405)
        WRITE (12,405)
        WRITE (7,405)
  405   FORMAT(///,20X,'***** E R R O R  -- # INP3 *****'///)
        STOP
        RETURN
      END IF
      DO 410 NE = 1,NUMEL
        RECH(NE) = 0.
        VPRM(NE) = 0.
        IDELEM(NE) = 0
        HDLEAK(NE) = 0.
  410 CONTINUE
      IF (NCODEL.EQ.0) GO TO 510
      READ (11,420) (NE,IDELEM(NE),I = 1,NUMEL)
  420 FORMAT (8(2I5))
      WRITE (12,430)
  430 FORMAT (1H1,45X,21HI N P U T     D A T A/1H ,44X,23H----------
     1---------////1H0,5X,22HELEMENT IDENTIFICATION/1H ,4X,23H---------
     2----------/1H0,21X,9HNUMBER OF,/1H ,9X,7HELEM ID,5X,10HOCCURENC
     3ES,10X,5HRECH ,10X,4HVPRM,10X,'HDLEAK')
      READ (11,110) TITLE
      DO 470 NID = 1,NCODEL
        KOUNT = 0
        READ (11,440) ICODE,FCTR1,FCTR2,FCTR3,FCTR4,FCTR5
  440 FORMAT (I5,5F10.0)
        DO 450 I = 1,NUMEL
          IF (IDELEM(I).NE.ICODE) GO TO 450
          KOUNT = KOUNT + 1
          RECH(I) = FCTR1
          VPRM(I) = FCTR2
          HDLEAK(I) = FCTR3
  450   CONTINUE
        WRITE (12,460) ICODE,KOUNT,FCTR1,FCTR2,FCTR3
  460 FORMAT ((10X,I5,8X,I5,8X,3(F10.7,5X)))
  470 CONTINUE
C
C     .....PRINT ELEMENT DATA FOR AREA AND ELEMENT ID
      WRITE (12,480)
  480 FORMAT (1H1,45X,21HI N P U T     D A T A/1H ,44X,23H----------
     1---------////1H0,5X,12HELEMENT DATA/1H ,4X,14H----------/1H0,2
     2(7X,7HELEMENT,7X,4HAREA,5X,7HELEM ID,4X))
      WRITE (12,490) (NE,AREA(NE),IDELEM(NE),NE = 1,NUMEL)
  490 FORMAT (2( 8X,I5,F14.1,4X,I5,5X))
      WRITE (12,500) AREATOT
  500 FORMAT (///,1H ,10X,18HMODEL AREA(FT**2)=,F20.2)
```

```
 510 CONTINUE
C
C    READ GROUND SURFACE ELEVATION (GS ARRAY) IN (FT)
C
     READ (11,110) TITLE
     READ (11,520) INP,SFCT
 520 FORMAT (I2,F10.0)
     IF (INP.EQ.1) READ (11,525) (NP,GS(NP),I = 1,NUMNP)
 525 FORMAT (5(I5,F10.0))
     DO 530 I = 1,NUMNP
       IF (INP.EQ.1) THEN
         GS(I) = GS(I) * SFCT
       ELSEIF(INP .EQ. 0)THEN
         GS(I) = SFCT
       ENDIF
 530 CONTINUE
C
     WRITE (12,531)
 531 FORMAT (1H1,/////,24X,' I N P U T     D A T A ')
     WRITE (12,532)
 532 FORMAT (24X,'-----------------------',//)
     WRITE (12,533)
 533 FORMAT (4X,' GROUND SURFACE ELEVATION ')
     WRITE (12,534)
 534 FORMAT (4X,'--------------------------')
     WRITE (12,535)
 535 FORMAT (4X,3(' NODE     GS ELEV        '))
     WRITE (12,536)
 536 FORMAT (4X,3('------  ----------      '))
     WRITE (12,537)(I,GS(I),I=1,NUMNP)
 537 FORMAT (3(I8,F14.1,4X))
C
C    READ BEDROCK ELEVATION (ZBED ARRAY) IN (FT)
C
     READ (11,110) TITLE
     READ (11,920) INP,SFCT
 920 FORMAT (I2,F10.0)
     IF (INP.EQ.1) READ (11,925) (NP,ZBED(NP),I = 1,NUMNP)
 925 FORMAT (5(I5,F10.0))
     DO 930 I = 1,NUMNP
       IF (INP.EQ.1) THEN
         ZBED(I) = ZBED(I) * SFCT
       ELSEIF(INP .EQ. 0)THEN
         ZBED(I) = SFCT
       ENDIF
 930 CONTINUE
C
     WRITE (12,931)
 931 FORMAT (1H1,/////,24X,' I N P U T     D A T A ')
     WRITE (12,932)
 932 FORMAT (24X,'-----------------------',//)
     WRITE (12,933)
 933 FORMAT (4X,' BEDROCK ELEVATION ')
     WRITE (12,934)
 934 FORMAT (4X,'-------------------')
     WRITE (12,938)
 938 FORMAT (4X,3('         BEDROCK        '))
     WRITE (12,935)
 935 FORMAT (4X,3(' NODE    ELEVATION       '))
     WRITE (12,936)
 936 FORMAT (4X,3('------  ----------      '))
     WRITE (12,937)(I,ZBED(I),I=1,NUMNP)
 937 FORMAT (3(I8,F14.1,4X))
C
C    READ BASE OF AQUIFER ELEVATION (ZBASE ARRAY) IN (FT)
```

```
C
      READ (11,110) TITLE
      READ (11,940) INP,SFCT
  940 FORMAT (I2,F10.0)
      IF (INP.EQ.1) READ (11,945) (NP,ZBASE(NP),I = 1,NUMNP)
  945 FORMAT (5(I5,F10.0))
      DO 950 I = 1,NUMNP
        IF (INP.EQ.1) THEN
          ZBASE(I) = ZBASE(I) * SFCT
        ELSEIF(INP .EQ. 0)THEN
          ZBASE(I) = SFCT
        ENDIF
  950 CONTINUE
C
      WRITE (12,951)
  951 FORMAT (1H1,/////,24X,' I N P U T     D A T A ')
      WRITE (12,952)
  952 FORMAT (24X,'----------------------',//)
      WRITE (12,953)
  953 FORMAT (4X,' BASE OF AQUIFER ')
      WRITE (12,954)
  954 FORMAT (4X,'-----------------')
      WRITE (12,958)
  958 FORMAT (4X,3('       AQUIFER BASE       '))
      WRITE (12,955)
  955 FORMAT (4X,3(' NODE    ELEVATION        '))
      WRITE (12,956)
  956 FORMAT (4X,3('------  ----------       '))
      WRITE (12,957)(I,ZBASE(I),I=1,NUMNP)
  957 FORMAT (3(I8,F14.1,4X))
C
C     READ HYDRAULIC CONDUCTIVITY FOR AQUIFER 1 ARRAY IN (FT/DAY)
C
      READ (11,110) TITLE
      READ (11,560) INP,SFCT
  560 FORMAT (I2,F10.0)
      IF (INP.EQ.1) READ (11,570) (NP,HYDK1(NP),I = 1,NUMNP)
  570 FORMAT (5(I5,F10.0))
      DO 590 I = 1,NUMNP
        IF (INP.NE.1) GO TO 580
        HYDK1(I) = HYDK1(I) * SFCT
        GO TO 590
  580   HYDK1(I) = SFCT
  590 CONTINUE
C
      WRITE (12,601)
  601 FORMAT (1H1,/////,24X,' I N P U T     D A T A ')
      WRITE (12,602)
  602 FORMAT (24X,'----------------------',//)
      WRITE (12,603)
  603 FORMAT (4X,' HYDRAULIC CONDUCTIVITY AQUIFER 1 - FT/DAY')
      WRITE (12,604)
  604 FORMAT (4X,'----------------------------------------')
      WRITE (12,605)
  605 FORMAT (4X,3(' NODE      HYDK1        '))
      WRITE (12,606)
  606 FORMAT (4X,3('------  ---------       '))
      WRITE (12,607)(I,HYDK1(I),I=1,NUMNP)
  607 FORMAT (3(I8,F12.1,4X))
C
C     READ HYDRAULIC CONDUCTIVITY FOR AQUIFER 2 ARRAY IN (FT/DAY)
C
      READ (11,110) TITLE
      READ (11,1060) INP,SFCT
 1060 FORMAT (I2,F10.0)
      IF (INP.EQ.1) READ (11,1070) (NP,HYDK2(NP),I = 1,NUMNP)
```

```
 1070 FORMAT (5(I5,F10.0))
      DO 1090 I = 1,NUMNP
        IF (INP.NE.1) GO TO 1080
        HYDK2(I) = HYDK2(I) * SFCT
        GO TO 1090
 1080   HYDK2(I) = SFCT
 1090 CONTINUE
C
      WRITE (12,1091)
 1091 FORMAT (1H1,/////,24X,' I N P U T    D A T A ')
      WRITE (12,1092)
 1092 FORMAT (24X,'----------------------',//)
      WRITE (12,1093)
 1093 FORMAT (4X,' HYDRAULIC CONDUCTIVITY AQUIFER 2 - FT/DAY')
      WRITE (12,1094)
 1094 FORMAT (4X,'-----------------------------------------')
      WRITE (12,1095)
 1095 FORMAT (4X,3(' NODE     HYDK2       '))
      WRITE (12,1096)
 1096 FORMAT (4X,3('------  ---------     '))
      WRITE (12,1097)(I,HYDK2(I),I=1,NUMNP)
 1097 FORMAT (3(I8,F12.1,4X))
C
C     .....READ STORAGE COEFFICIENT ARRAY IN (DIMENSIONLESS)
      READ (11,110) TITLE
      READ (11,610) INP,SFCT
  610 FORMAT (I2,F10.0)
      S = SFCT
      IF (INP.EQ.1) READ (11,620) (NP,SC(NP),I = 1,NUMNP)
  620 FORMAT (5(I5,F10.0))
      DO 640 I = 1,NUMNP
        IF (INP.NE.1) GO TO 630
        SC(I) = SC(I) * SFCT
        GO TO 640
  630   SC(I) = SFCT
  640 CONTINUE
C
      WRITE (12,641)
  641 FORMAT (1H1,/////,24X,' I N P U T    D A T A ')
      WRITE (12,642)
  642 FORMAT (24X,'----------------------',//)
      WRITE (12,643)
  643 FORMAT (4X,' STORAGE COEFFICIENT ')
      WRITE (12,644)
  644 FORMAT (4X,'---------------------')
      WRITE (12,648)
  648 FORMAT (4X,3('         STOR        '))
      WRITE (12,645)
  645 FORMAT (4X,3(' NODE    COEFF       '))
      WRITE (12,646)
  646 FORMAT (4X,3('------  --------     '))
      WRITE (12,647)(I,SC(I),I=1,NUMNP)
  647 FORMAT (3(I8,F10.6,5X))
C
C     .....READ INITIAL HEAD ARRAY IN (FT)
      READ (11,110) TITLE
      READ (11,650) INP,SFCT
  650 FORMAT (I2,F10.0)
      IF (INP.EQ.1) READ (11,660) (NP,HEAD(NP),I = 1,NUMNP)
  660 FORMAT (5(I5,F10.0))
      DO 680 I = 1,NUMNP
        IF (INP.NE.1) GO TO 670
        HEAD(I) = HEAD(I) * SFCT
        GO TO 680
  670   HEAD(I) = SFCT
```

```
 680 CONTINUE
C
C     .....SET INITIAL HEAD VALUE
      DO 690 I = 1,NUMNP
 690 HDI(I) = HEAD(I)
C
      WRITE (12,691)
 691 FORMAT (1H1,/////,24X,' I N P U T     D A T A ')
      WRITE (12,692)
 692 FORMAT (24X,'----------',//)
      WRITE (12,693)
 693 FORMAT (4X,' INITIAL HEAD - FEET ')
      WRITE (12,694)
 694 FORMAT (4X,'----------')
      WRITE (12,695)
 695 FORMAT (4X,3(' NODE      HEAD        '))
      WRITE (12,696)
 696 FORMAT (4X,3('------   --------      '))
      WRITE (12,697)(I,HEAD(I),I=1,NUMNP)
 697 FORMAT (3(I8,F13.1,5X))
C
C     CALCULATE  TRANSMISSIVITY ARRAY IN (FT*2/DAY)
C
      IFLAG(1)=3
      CALL TRANADJ
C
      WRITE (12,1201)
1201 FORMAT (1H1,/////,24X,' I N P U T     D A T A ')
      WRITE (12,1202)
1202 FORMAT (24X,'----------',//)
      WRITE (12,1203)
1203 FORMAT (4X,' TRANSMISSIVITY - FT**2/DAY')
      WRITE (12,1204)
1204 FORMAT (4X,'----------')
      WRITE (12,1205)
1205 FORMAT (4X,3(' NODE      TRANS       '))
      WRITE (12,1206)
1206 FORMAT (4X,3('------   ---------     '))
      WRITE (12,1207)(I,TRANS(I),I=1,NUMNP)
1207 FORMAT (3(I8,F12.1,4X))
C
C     .....READ NODEID ARRAY
C          NODE ID CODES FOR 1 - 10 ARE RESERVED FOR CONSTANT HEAD NODES
C          REC =POINT RECHARGE OR DISCHARGE IN GPM
C            "+" IS DISCHARGE(PUMPAGE),"-" IS RECHARGE(INJECTION)
C          REC=FCTR1
C          DRCOND=RIVER/DRAIN CONDUCTANCE (- IS RIVER)
C          DRELEV=RIVER/DRAIN HEAD
C          NCODNP = NUMBER OF NODE ID CODES TO BE DEFINED
C          SPECIFY OTHER CODES TO FIT YOUR NEEDS
C
      READ (11,110) TITLE
      READ (11,700) NCODNP
  700 FORMAT (I2)
      DO 710 NP = 1,NUMNP
        REC(NP) = 0.
        NODEID(NP) = 0
        QBSNODE(NP) = 0.
        DRELEV(NP) = 0.
        DRCOND(NP) = 0.
  710 CONTINUE
      DO 715 NS = 1,NBS
        QGHB(NS) = 0.
  715 CONTINUE
C
      IF (NCODNP.LE.0) GO TO 780
```

```
      READ (11,720) (NP,NODEID(NP),I = 1,NUMNP)
  720 FORMAT (8(2I5))
      WRITE (12,730)
  730 FORMAT (1H1,45X,21HI N P U T     D A T A/1H ,44X,23H----------
     1---------////1H0,5X,19HNODE IDENTIFICATION/1H ,4X,21H----------
     2--------/1H0,21X,9HNUMBER OF,/1H ,9X,7HNODE ID,5X,10HOCCURENCES,11
     3X,3HREC,9X,6HDRCOND,6X,6HDRELEV)
      READ (11,110) TITLE
      DO 770 NID = 1,NCODNP
        KOUNT = 0
        READ (11,740) ICODE,FCTR1,FCTR2,FCTR3,FCTR4,FCTR5
  740   FORMAT (I5,5F10.0)
        DO 750 I = 1,NUMNP
          IF (NODEID(I).NE.ICODE) GO TO 750
          KOUNT = KOUNT + 1
          REC(I) = FCTR1
          DRCOND(I) = FCTR2
          DRELEV(I) = FCTR3
  750   CONTINUE
        WRITE (12,760) ICODE,KOUNT,FCTR1,FCTR2,FCTR3
  760   FORMAT ((10X,I5,8X,I5,8X,1(F10.2,5X),2(F10.2,2X)))
  770 CONTINUE
C
      WRITE (12,771)
  771 FORMAT (1H1,/////,24X,' I N P U T     D A T A ')
      WRITE (12,772)
  772 FORMAT (24X,'----------',//)
      WRITE (12,773)
  773 FORMAT (4X,' NODEID ARRAY ')
      WRITE (12,774)
  774 FORMAT (4X,'----------')
      WRITE (12,775)
  775 FORMAT (4X,3(' NODE     NODEID      '))
      WRITE (12,776)
  776 FORMAT (4X,3('------  --------      '))
      WRITE (12,777)(I,NODEID(I),I=1,NUMNP)
  777 FORMAT (3(I8,I10,5X))
C
C     .....CONVERT REC FROM GPM TO FT**3/DAY
  780 DO 790 NP = 1,NUMNP
        REC(NP) = REC(NP)/7.48052 * 60 * 24
  790 CONTINUE
C
C     ..... INPUT THE GHB DATA
      READ(11,110) TITLE
      READ(11,800) NUMBS
  800 FORMAT (I5)
      IF (NUMBS .LE. 0) GO TO 890
      IF (NUMBS .GT. NBS) THEN
        WRITE (*,805)
  805   FORMAT(///,20X,'***** E R R O R  -- # INP4 *****'//)
        STOP
        RETURN
      END IF
      READ(11,110) TITLE
      DO 810 NS=1,NUMBS
        GHBCOND(NS) = 0.
        GHBHEAD(NS) = 0.
        SLENGTH(NS) = 0.
        QGHB(NS) = 0.
  810 CONTINUE
C
      DO 820 NS=1,NUMBS
        READ(11,830) ISEGMENT,NGHB(NS,1),NGHB(NS,2),
     +             GHBCOND(NS),GHBHEAD(NS)
```

```
 830   FORMAT(3I5,F10.7,F10.1)
       IF (NGHB(NS,2) .LT. NGHB(NS,1)) THEN
          N1=NGHB(NS,1)
          N2=NGHB(NS,2)
          NGHB(NS,1)=N2
          NGHB(NS,2)=N1
       END IF
       SLENGTH(NS)=SQRT(  ( (X(NGHB(NS,1))-X(NGHB(NS,2)))**2 ) +
     1                ( (Y(NGHB(NS,1))-Y(NGHB(NS,2)))**2 )  )
 820 CONTINUE
C
C
     WRITE(12,771)
     WRITE(12,772)
     WRITE(12,851)
 851 FORMAT(5X,'GENERAL HEAD BOUNDARY SEGMENTS')
     WRITE(12,850)
 850 FORMAT(/5X' SEGMENT NODE1 NODE2      COND      HEAD    LENGTH')
     WRITE(12,852)
 852 FORMAT(5X,' ----  ----- -----      ----      ----    ------')
     DO 860 NS=1,NUMBS
      WRITE(12,865)NS,(NGHB(NS,J),J=1,2),GHBCOND(NS),GHBHEAD(NS),
     1          SLENGTH(NS)
 865  FORMAT (5X,I5,3X,2(I5,1X),2X,F10.7,F10.1,F10.1)
 860 CONTINUE
     GO TO 900
C
 890 WRITE(12,771)
     WRITE(12,772)

     WRITE(12,892)
 892 FORMAT (//,15X,'NO HEAD-DEPENDENT FLUX (GHB) SEGMENTS'///)
 900 CONTINUE
C
C+++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
+++++++++++++++++++++
C      READ OBSERVED HEAD DATA
C+++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
+++++++++++++++++++++
     READ (11,110)TITLE
     READ (11,1840) NUMOB
1840 FORMAT (I5)
     DO 1860 I=1,NUMOB
     READ (11,1850) NOBSW(I),OBSH(I)
1850 FORMAT (I10,F10.0)
1860 CONTINUE
C     ************************************************************
 999 RETURN
     END
C*******************************************************************************
     SUBROUTINE FILWRK(STATE,EXTEN,FNAMEX)
C       THIS SUBROUTINE PROMPTS THE USER FOR A FILE NAME FOR INPUT OR
C     OUTPUT AND APPENDS A DEFAULT EXTENTION IF THE USER CHOOSES
C       STATE = 1ST/OLD/NEW = CHARACTER VAR. WHICH INDICATES IF THIS
C             THE FIRST TIME ANY FILE CALLED, OR IF IT IS AN OLD
C             (EXISTING) FILE OR NEW (TO BE CREATED) FILE.
C     ****************************************************************
C
     CHARACTER    STATE*3, EXTEN*4, FNAMEX*20, ANSWER*1
     LOGICAL EXISTS

C
     ANSWER = 'Y'
   10 FORMAT (A)
C
```

```
C     .....PROMPT FOR THE FILE NAME, WITH OR WITHOUT THE EXTENTION
C           IF THE FIRST PROMPT FOR A NAME, PROMPT FOR BASE FILE NAME
      IF(STATE .NE. '1ST') GO TO 199
   99 WRITE(*,100)
  100 FORMAT(20X,'               (D:FNAME?):=>')
      READ(*,10) FNAMEX
      I=INDEX(FNAMEX,' ')
      IF(I.EQ.1) GOTO 99
C
C     .....FIND THE LENGTH OF THE BASE FILE NAME (FNAME)
C          IF JJ IS LESS THAN II, AN EXTENTION IS ALREADY IN THE NAME
  199 I=INDEX(FNAMEX,' ')
      J=INDEX(FNAMEX,'.')
      IF(J.EQ.0) J=I
      II=I-1
      JJ=J-1
      LEN=MIN(II,JJ)
C
C     .....IF NO EXTEN GIVEN, SUGGEST THE DEFAULT INITIALLY
C          NOTE: STATE = 1ST NOW CHANGED TO = OLD
      IF (STATE .EQ. '1ST') THEN
        IF (JJ.GE.II) FNAMEX=FNAMEX(1:LEN)//EXTEN
        STATE = 'OLD'
      ELSE IF (STATE.NE.'1ST' .AND. ANSWER.EQ.'Y') THEN
        FNAMEX=FNAMEX(1:LEN)//EXTEN
      END IF
C
C     .....ASK FOR APPROVAL FOR THE FILE NAME "FNAMEX"
  299 CONTINUE
      IF(ANSWER .EQ. 'Y') WRITE(*,300) FNAMEX
  300 FORMAT(20X,'For this file, the default name is: ',A,/
     +       20X,'      Is this ACCEPTable (Y/N?):=>')
      IF(ANSWER .EQ. 'N') WRITE(*,310) FNAMEX
  310 FORMAT(20X,'For this file, the NEW name is: ',A,/
     +       20X,'      Is this ACCEPTable (Y/N?):=>')
  320 READ(*,10) ANSWER
      IF (ANSWER .NE. 'Y'  .AND.  ANSWER .NE. 'N') THEN
        WRITE (*,330)
  330   FORMAT(20X,'      Is this ACCEPTable (Y/N?):=>')
        GO TO 320
      END IF
      IF (ANSWER .EQ. 'N') GO TO 99
  399 WRITE(*,400) FNAMEX
  400 FORMAT(20X,'  Using file named = ',A)
C
C     ..... DETERMINE THE STATUS OF THE FILE "FNAMEX" AND COMPARE THIS
C           TO THE EXPECTED STATUS "STATE"
      INQUIRE(FILE=FNAMEX,EXIST=EXISTS)
      IF (.NOT.EXISTS .AND. STATE.EQ.'OLD') THEN
        WRITE(*,500) FNAMEX
  500   FORMAT(20X,'***** ERROR -- cannot find file:',A,/
     +         40X,    ' -- TRY AGAIN'//)
        GO TO 99
      ELSE IF (EXISTS .AND. STATE.EQ.'NEW') THEN
  510   WRITE(*,520) FNAMEX
  520   FORMAT(20X,'***** WARNING -- file:',A,/
     +       20X,'      already exists -- OK TO OVERWRITE (Y/N?):=>')
        READ(*,10)ANSWER
        IF (ANSWER.NE.'Y' .AND. ANSWER.NE.'N') GO TO 510
        IF (ANSWER.EQ.'N') GO TO 99
      END IF
C
  999 RETURN
      END
C*********************************************************************
```

```
      SUBROUTINE UPDATE
C
C     THIS SUBROUTINE IS USED TO SELECTIVELY UPDATE SOME OR ANY OF THE
C     MODEL INPUT DATA AT THE END OF EACH PUMPING PERIOD.
C     ****************************************************************
      PARAMETER (NNP=3500,NEL=7000,IB=75,NBS=200)
C**** IMPLICIT REAL*8(A-H,O-Z)
      COMMON /BLOCKA/ NUMNP,X(NNP),Y(NNP),NUMEL,NI(NEL),NJ(NEL),
     1NK(NEL),TITLE(20),IBAND,IFLAG(5),TOL,RELAX
      COMMON /BLOCKB/ NTIM,NPMP,PINT,TIMX,TINIT,TPDAY,SUMT,
     1TDEL,TIMY
      COMMON /BLOCKC/NCODNP,NODEID(NNP),TRANS(NNP),HYDK1(NNP),THCK(NNP),
     1REC(NNP),SC(NNP),S,HEAD(NNP),HDI(NNP)
      COMMON /BLOCKD/ NCODEL,IDELEM(NEL),RECH(NEL),VPRM(NEL),AREA(NEL),
     +              HDLEAK(NEL)
      COMMON /BLOCKF/QINRCH,QOUTRCH,QINREC,QOUTREC,QINCHN,QOUTCHN,
     1QINLEK,QOUTLEK,QSTOR,QINGHB,QOUTGHB,QINDR,QOUTDR
      COMMON /BLOCKG/ NUMBS,NGHB(NBS,2),GHBCOND(NBS),GHBHEAD(NBS),
     1SLENGTH(NBS),QGHB(NBS),QBSNODE(NNP),QDR(NNP),DRCOND(NNP),
     2DRELEV(NNP)
      COMMON /BLOCKH/ PRINTIT
      CHARACTER PRINTIT*1,CHANGEM*4
C     ****************************************************************
C
C     ***************************************************************
C     UPDATE CONSTANT HEAD FOR NODEID 2&3
C     ***************************************************************
C     IF(SUMT.GE.270.AND.SUMT.LE.360)THEN
C     DO 2000 I=1,NUMNP
C        IF(NODEID(I).NE.10)GOTO 2000
C          HEAD(I)=HEAD(I)+1.5
C          HDI(I)=HDI(I)+1.5
C          WRITE(6,*)I,HEAD(I)
C2000  CONTINUE
C     ENDIF
C     ****************************************************************
C     .....UPDATE PUMPING PERIOD DATA
  100 WRITE (12,110)
  110 FORMAT (1H1,45X,23HU P D A T E     D A T A/1H ,44X,25H----------
     1----------////)
      READ (11,120) TITLE
      WRITE (12,130) TITLE
  120 FORMAT (20A4)
  130 FORMAT (//1H ,20A4/,'----------',/)
C
C     .....UPDATE TIME PARAMETERS
      READ (11,120) TITLE
      READ (11,140) PINT,PRINTIT,CHANGEM
  140 FORMAT (F10.0,4X,A1,1X,A4)
      WRITE (12,150) PINT,PRINTIT,CHANGEM
  150 FORMAT (
     +       /6X,'PINT (PUMPING PERIOD IN DAYS)          =',2X,F7.2,
     +       /6X,'PRINTIT (PRINT SOLUTION FOR THIS PERIOD) =',2X,A1,
     +       /6X,'CHANGEM (UPDATE OPTION FOR THIS PERIOD)  =',2X,A4)
C
      IF (CHANGEM .EQ. 'NONE') GO TO 1000
      IF (CHANGEM .EQ. 'LMNT') GO TO 300
C
C     .....UPDATE NODE ID CODES
      IF (NCODNP .LE. 0) GO TO 300
      DO 160 NP = 1,NUMNP
  160 REC(NP) = 0.
      WRITE (12,180)
  180 FORMAT (//1H0,5X,'NODE IDENTIFICATION'/5X,'----------',
     1'-------'/1H0,21X,'NUMBER OF'/10X,'NODE ID'5X'OCCURENCES',11X
```

```
     2,'REC',9X,6HDRCOND,6X,6HDRELEV)
      READ (11,120) TITLE
      DO 220 NID = 1,NCODNP
        KOUNT = 0
        READ (11,190) ICODE,FCTR1,FCTR2,FCTR3
  190 FORMAT (I5,3F10.0)
        DO 200 I = 1,NUMNP
          IF (NODEID(I).NE.ICODE) GO TO 200
          KOUNT = KOUNT + 1
          REC(I) = FCTR1
          DRCOND(I) = FCTR2
          DRELEV(I) = FCTR3
  200   CONTINUE
        WRITE (12,210) ICODE,KOUNT,FCTR1,FCTR2,FCTR3
  210 FORMAT ((10X,I5,8X,I5,8X,1(F10.2,5X),2(F10.2,2X)))
  220 CONTINUE
C
C     .....CONVERT REC FROM GPM TO FT**3/DAY
      DO 230 NP = 1,NUMNP
        REC(NP) = REC(NP)/7.48052 * 60 * 24
  230 CONTINUE
C
      IF (CHANGEM .EQ. 'NODE') GO TO 1000
C
C     .....UPDATE ELEMENT ID CODES
  300 IF (NCODEL.EQ.0) GO TO 1000
      DO 410 NE = 1,NUMEL
        RECH(NE) = 0.
        VPRM(NE) = 0.
        HDLEAK(NE)=0.
  410 CONTINUE
      WRITE (12,430)
  430 FORMAT (1H1,45X,21H                    /1H ,44X,23H
     1        ////1H0,5X,22HELEMENT IDENTIFICATION/1H ,4X,23H----------
     2----------/1H0,21X,9HNUMBER OF,/1H ,9X,7HELEM ID,5X,10HOCCURENC
     3ES,10X,5HRECH ,10X,4HVPRM,10X,'HDLEAK')
      READ (11,120) TITLE
      DO 470 NID = 1,NCODEL
        KOUNT = 0
        READ (11,440) ICODE,FCTR1,FCTR2,FCTR3,FCTR4,FCTR5
  440 FORMAT (I5,5F10.0)
        DO 450 I = 1,NUMEL
          IF (IDELEM(I).NE.ICODE) GO TO 450
          KOUNT = KOUNT + 1
          RECH(I) = FCTR1
          VPRM(I) = FCTR2
          HDLEAK(I) = FCTR3
  450   CONTINUE
        WRITE (12,460) ICODE,KOUNT,FCTR1,FCTR2,FCTR3
  460 FORMAT ((10X,I5,8X,I5,8X,3(F10.7,5X)))
  470 CONTINUE
C
 1000 CONTINUE
  999 RETURN
      END
C*********************************************************************
*
      SUBROUTINE ELINTF(NCALL)
C     THIS SUBROUTINE PERFORMS THE INTEGRATIONS REQUIRED FOR THE FLOW
C     EQUATION.  THESE INTEGRATIONS ARE CARRIED OUT IN A PIECEWISE
C     MANNER ON AN ELEMENT BASIS.  GLOBAL MATRICES ARE THEN FORMED BY
C     SUMMING FOR A GIVEN NODE THE CONTRIBUTION TO THAT NODE FROM EACH
C     ELEMENT.  THESE GLOBAL MATRICES FOR THE FLOW EQUATION ARE BANDED
C     AND SYMMETRIC.
C     ******************************************************************
```

```
      PARAMETER (NNP=3500,NEL=7000,IB=75,NBS=200)
C**** IMPLICIT REAL*8(A-H,O-Z)
      COMMON /BLOCKA/ NUMNP,X(NNP),Y(NNP),NUMEL,NI(NEL),NJ(NEL),
     1NK(NEL),TITLE(20),IBAND,IFLAG(5),TOL,RELAX
      COMMON /BLOCKC/NCODNP,NODEID(NNP),TRANS(NNP),HYDK1(NNP),THCK(NNP),
     1REC(NNP),SC(NNP),S,HEAD(NNP),HDI(NNP)
      COMMON /BLOCKD/ NCODEL,IDELEM(NEL),RECH(NEL),VPRM(NEL),AREA(NEL),
     +              HDLEAK(NEL)
      COMMON /BLOCKE/ AF(NNP,IB),BF(NNP,IB),DF(NNP),CM(NNP,IB),RHS(NNP)
      COMMON /BLOCKG/ NUMBS,NGHB(NBS,2),GHBCOND(NBS),GHBHEAD(NBS),
     1SLENGTH(NBS),QGHB(NBS),QBSNODE(NNP),QDR(NNP),DRCOND(NNP),
     2DRELEV(NNP)
      COMMON /BLOCKT/GS(NNP),ZBED(NNP),ZBASE(NNP),HYDK2(NNP)
C     ****************************************************************
      IF (IFLAG(1).EQ.0.AND.NCALL.GT.1) GO TO 170
      IF (IFLAG(1).EQ.2.AND.NCALL.GT.1) GO TO 170
      IF (IFLAG(1).EQ.1 .OR. IFLAG(1) .EQ. 3)CALL TRANADJ
C
C     PERFORM ELEMENT INTEGRATIONS ( A MATRIX - FLOW)
C
  110 DO 120 I = 1,NUMNP
      DO 120 J = 1,IBAND
  120 AF(I,J) = 0.
C
      DO 130 I = 1,NUMEL
        TA4=(TRANS(NI(I)) + TRANS(NJ(I)) + TRANS(NK(I)))/(AREA(I)*12.)
        E1 = ((Y(NJ(I)) - Y(NK(I))) * (Y(NJ(I)) - Y(NK(I)))
     1       +(X(NK(I)) - X(NJ(I))) * (X(NK(I)) - X(NJ(I)))) * TA4
        E2 = ((Y(NK(I)) - Y(NI(I))) * (Y(NJ(I)) - Y(NK(I)))
     1       +(X(NI(I)) - X(NK(I))) * (X(NK(I)) - X(NJ(I)))) * TA4
        E3 = ((Y(NI(I)) - Y(NJ(I))) * (Y(NJ(I)) - Y(NK(I)))
     1       +(X(NJ(I)) - X(NI(I))) * (X(NK(I)) - X(NJ(I)))) * TA4
        E4 = ((Y(NK(I)) - Y(NI(I))) * (Y(NK(I)) - Y(NI(I)))
     1       +(X(NI(I)) - X(NK(I))) * (X(NI(I)) - X(NK(I)))) * TA4
        E5 = ((Y(NI(I)) - Y(NJ(I))) * (Y(NK(I)) - Y(NI(I)))
     1       +(X(NJ(I)) - X(NI(I))) * (X(NI(I)) - X(NK(I)))) * TA4
        E6 = ((Y(NI(I)) - Y(NJ(I))) * (Y(NI(I)) - Y(NJ(I)))
     1       +(X(NJ(I)) - X(NI(I))) * (X(NJ(I)) - X(NI(I)))) * TA4
C
C     .....LOCATE IN BANDED GLOBAL MATRIX (SYMMETRIC)
        IJ = IABS(NI(I) - NJ(I)) + 1
        IK = IABS(NI(I) - NK(I)) + 1
        JK = IABS(NJ(I) - NK(I)) + 1
        AF(NI(I),1) = AF(NI(I),1) + E1
        IF (NI(I).LT.NJ(I)) AF(NI(I),IJ) = AF(NI(I),IJ) + E2
        IF (NJ(I).LT.NI(I)) AF(NJ(I),IJ) = AF(NJ(I),IJ) + E2
        IF (NI(I).LT.NK(I)) AF(NI(I),IK) = AF(NI(I),IK) + E3
        IF (NK(I).LT.NI(I)) AF(NK(I),IK) = AF(NK(I),IK) + E3
        AF(NJ(I),1) = AF(NJ(I),1) + E4
        IF (NJ(I).LT.NK(I)) AF(NJ(I),JK) = AF(NJ(I),JK) + E5
        IF (NK(I).LT.NJ(I)) AF(NK(I),JK) = AF(NK(I),JK) + E5
        AF(NK(I),1) = AF(NK(I),1) + E6
C
C       .....ADJUST COEFF. MATRIX FOR LEAKAGE TERMS
        IF(IDELEM(I).NE.0 .AND. VPRM(I).NE.0.0) THEN
          AF(NI(I),1) = AF(NI(I),1) - 2.*VPRM(I)*AREA(I)/12.
          IF (NI(I).LT.NJ(I)) AF(NI(I),IJ) = AF(NI(I),IJ)
     +                              - VPRM(I)*AREA(I)/12.
          IF (NJ(I).LT.NI(I)) AF(NJ(I),IJ) = AF(NJ(I),IJ)
     +                              - VPRM(I)*AREA(I)/12.
          IF (NI(I).LT.NK(I)) AF(NI(I),IK) = AF(NI(I),IK)
     +                              - VPRM(I)*AREA(I)/12.
          IF (NK(I).LT.NI(I)) AF(NK(I),IK) = AF(NK(I),IK)
     +                              - VPRM(I)*AREA(I)/12.
          AF(NJ(I),1) = AF(NJ(I),1) - 2.*VPRM(I)*AREA(I)/12.
          IF (NJ(I).LT.NK(I)) AF(NJ(I),JK) = AF(NJ(I),JK)
```

```
     +                                - VPRM(I)*AREA(I)/12.
          IF (NK(I).LT.NJ(I)) AF(NK(I),JK) = AF(NK(I),JK)
     +                                - VPRM(I)*AREA(I)/12.
          AF(NK(I),1) = AF(NK(I),1) - 2.*VPRM(I)*AREA(I)/12.
        END IF
  130 CONTINUE
C
C     .....ADJUST COEFF. FOR HEAD-DEPENDANT NODES (DRAINS/RIVERS)
      DO 135 NP = 1, NUMNP
        IF(NODEID(NP).GE.1 .AND. NODEID(NP).LE.10) GO TO 135
        AF(NP,1) = AF(NP,1) + ABS(DRCOND(NP))
  135 CONTINUE
C
C     .....ADJUST COEFF. FOR GHB CONTRIBUTION FOR BOUNDARY SEGMENT NODES
      IF (NUMBS .GT. 0) THEN
        DO 140 NS = 1,NUMBS
          AF(NGHB(NS,1),1) = AF(NGHB(NS,1),1) +
     +                ((1/2.)* SLENGTH(NS)*GHBCOND(NS))
          AF(NGHB(NS,2),1) = AF(NGHB(NS,2),1) +
     +                ((1/2.)* SLENGTH(NS)*GHBCOND(NS))
  140   CONTINUE
      END IF
C     **********************************************************************
      IF (NCALL.GT.1) GO TO 170
C     **********************************************************************
C
C     .....PERFORM ELEMENT INTEGRATIONS ( B MATRIX - FLOW)
      DO 145 I = 1,NUMNP
      DO 145 J = 1,IBAND
  145 BF(I,J) = 0.
C
      DO 160 I = 1,NUMEL
        E1 = (3*SC(NI(I)) +   SC(NJ(I)) +   SC(NK(I))) * AREA(I)/30.
        E2 = (2*SC(NI(I)) + 2*SC(NJ(I)) +   SC(NK(I))) * AREA(I)/60.
        E3 = (2*SC(NI(I)) +   SC(NJ(I)) + 2*SC(NK(I))) * AREA(I)/60.
        E4 = (  SC(NI(I)) + 3*SC(NJ(I)) +   SC(NK(I))) * AREA(I)/30.
        E5 = (  SC(NI(I)) + 2*SC(NJ(I)) + 2*SC(NK(I))) * AREA(I)/60.
        E6 = (  SC(NI(I)) +   SC(NJ(I)) + 3*SC(NK(I))) * AREA(I)/30.
C
C     .....MASS LUMPING
        E1 = E1 + E2 + E3
        E4 = E2 + E4 + E5
        E6 = E3 + E5 + E6
        E2 = 0.
        E3 = 0.
        E5 = 0.
C
C     ......LOCATE IN BANDED GLOBAL MATRIX (SYMMETRIC)
  150   IJ = IABS(NI(I) - NJ(I)) + 1
        IK = IABS(NI(I) - NK(I)) + 1
        JK = IABS(NJ(I) - NK(I)) + 1
        BF(NI(I),1) = BF(NI(I),1) + E1
        IF (NI(I).LT.NJ(I)) BF(NI(I),IJ) = BF(NI(I),IJ) + E2
        IF (NJ(I).LT.NI(I)) BF(NJ(I),IJ) = BF(NJ(I),IJ) + E2
        IF (NI(I).LT.NK(I)) BF(NI(I),IK) = BF(NI(I),IK) + E3
        IF (NK(I).LT.NI(I)) BF(NK(I),IK) = BF(NK(I),IK) + E3
        BF(NJ(I),1) = BF(NJ(I),1) + E4
        IF (NJ(I).LT.NK(I)) BF(NJ(I),JK) = BF(NJ(I),JK) + E5
        IF (NK(I).LT.NJ(I)) BF(NK(I),JK) = BF(NK(I),JK) + E5
        BF(NK(I),1) = BF(NK(I),1) + E6
  160 CONTINUE
C
C     .....PERFORM ELEMENT INTEGRATION ( MATRICES D,E&F - FLOW)
C         LOCATE IN GLOBAL MATRIX
  170 DO 180 NP = 1,NUMNP
```

```
 180 DF(NP) = 0.
C
    DO 200 NE = 1,NUMEL
      QLEK = 0.
      QRECH = 0.
      IF (VPRM(NE) .NE. 0.0) THEN
        QLEK = - VPRM(NE) * AREA(NE) * HDLEAK(NE) / 3.
      END IF
      QRECH = RECH(NE) * AREA(NE)/3.
      DF(NI(NE)) = DF(NI(NE)) + QRECH + QLEK
      DF(NJ(NE)) = DF(NJ(NE)) + QRECH + QLEK
      DF(NK(NE)) = DF(NK(NE)) + QRECH + QLEK
 200 CONTINUE
C
C    .....ADD HEAD-DEPENDANT NODES (DRAINS AND RIVERS) AND POINT SOURCE
C         (WELLS) TO SOURCE VECTOR, EXCLUDING CONSTANT HEAD FLOWS
C          DRCOND = +, DRAIN        DRCOND = -, RIVER
    DO 220 NP=1,NUMNP
      IF (NODEID(NP).GE.1 .AND. NODEID(NP).LE.10) THEN
        REC(NP) = 0.0
        DRCOND(NP) = 0.0
      END IF
      IF (HEAD(NP).GT.DRELEV(NP) .AND. DRCOND(NP).GT.0.0) THEN
        DF(NP) = DF(NP) - DRCOND(NP)*DRELEV(NP)
      ELSEIF (HEAD(NP).LE.DRELEV(NP) .AND. DRCOND(NP).LT.0.0) THEN
        DF(NP) = DF(NP) - ( ABS(DRCOND(NP)) )*DRELEV(NP)
      ELSE
        DF(NP) = DF(NP) + REC(NP)
      END IF
 220 CONTINUE
C
C    .....ADD GHB CONTRIBUTIONS TO POINT SOURCE VECTOR
    IF (NUMBS .GT. 0) THEN
      DO 235 NS = 1,NUMBS
        DO 230 NP = 1,NUMNP
          IF (NP .EQ. NGHB(NS,1)) THEN
            DF(NP)=DF(NP)-0.5*SLENGTH(NS)*GHBCOND(NS)*GHBHEAD(NS)
          ELSE IF (NP .EQ. NGHB(NS,2)) THEN
            DF(NP)=DF(NP)-0.5*SLENGTH(NS)*GHBCOND(NS)*GHBHEAD(NS)
          END IF
 230      CONTINUE
 235    CONTINUE
    END IF
C
 999 RETURN
    END
C*******************************************************************************
*
    SUBROUTINE MATSOL
    PARAMETER (NNP=3500,NEL=7000,IB=75,NBS=200)
C*****IMPLICIT REAL*8(A-H,O-Z)
    COMMON /BLOCKA/ NUMNP,X(NNP),Y(NNP),NUMEL,NI(NEL),NJ(NEL),
   1NK(NEL),TITLE(20),IBAND,IFLAG(5),TOL,RELAX
    COMMON /BLOCKB/ NTIM,NPMP,PINT,TIMX,TINIT,TPDAY,SUMT,
   1TDEL,TIMY
    COMMON /BLOCKC/NCODNP,NODEID(NNP),TRANS(NNP),HYDK1(NNP),THCK(NNP),
   1REC(NNP),SC(NNP),S,HEAD(NNP),HDI(NNP)
    COMMON /BLOCKE/ AF(NNP,IB),BF(NNP,IB),DF(NNP),CM(NNP,IB),RHS(NNP)
    COMMON /BLOCKG/ NUMBS,NGHB(NBS,2),GHBCOND(NBS),GHBHEAD(NBS),
   1SLENGTH(NBS),QGHB(NBS),QBSNODE(NNP),QDR(NNP),DRCOND(NNP),
   2DRELEV(NNP)
    DIMENSION TMP(NNP)
    COMMON /BLOCKH/ PRINTIT
    CHARACTER*1 PRINTIT
C   ****************************************************************
C    THIS SUBROUTINE ASSEMBLES AND SOLVES THE FLOW EQUATION
```

```
C     (MATRIX(AF)+(MATRIX(BF)/TDEL))=LHS COEFFICIENT MATRIX(CM)
C     (((MATRIX(BF)/TDEL) * VECTOR(HEAD)) - VECTOR(DF))=KNOWN RHS VECTOR
C     SOLUTION IS BY BANDED GAUSSIAN ELIMINATION
C     ********************************************************************
C
C     .....COEFFICIENT MATRIX
      DO 100 I = 1,NUMNP
        DO 100 J = 1,IBAND
          CM(I,J) = AF(I,J) + BF(I,J)/TDEL
  100 CONTINUE
C
C     .....RHS VECTOR
      CALL MULT (NUMNP,IBAND,BF,HEAD,RHS)
      DO 110 I = 1,NUMNP
  110 RHS(I) = RHS(I)/TDEL - DF(I)
C
C     .....BLAST CONSTANT HEAD NODES
      DO 115 I = 1,NUMNP
        TMP(I) = RHS(I)
  115 CONTINUE
C
      DO 120 I = 1,NUMNP
        IF ((NODEID(I) .EQ. 0) .OR. (NODEID(I) .GT. 10)) GO TO 120
        RHS(I) = RHS(I) - CM(I,1) * HEAD(I)
        CM(I,1) = 1.0E+10
        RHS(I) = RHS(I) + CM(I,1) * HEAD(I)
  120 CONTINUE
C
C     .....SOLVE MATRIX EQUATION BY GAUSS ELIMINATION
      CALL UDU(NUMNP,IBAND,CM,RHS)
C
      WRITE (7,155) SUMT
      WRITE (*,155) SUMT
  155 FORMAT (/,5X,28HMATSOL-UDU GAUSS ELIMINATION,10X,5HTIME=,F12.7)
      DO 160 I = 1,NUMNP
  160 HEAD(I) = RHS(I)
C
C     .....CALCULATE FLOW FROM CONSTANT HEAD NODES
      DO 170 I = 1,NUMNP
        DO 165 J = 1,IBAND
          CM(I,J) = AF(I,J) + BF(I,J)/TDEL
  165   CONTINUE
        RHS(I) = TMP(I)
  170 CONTINUE
C
      CALL MULT (NUMNP,IBAND,CM,HEAD,DF)
C
      DO 175 I = 1,NUMNP
        IF ((NODEID(I) .EQ. 0) .OR. (NODEID(I) .GT. 10)) GO TO 175
        REC(I) = RHS(I) - DF(I)
  175 CONTINUE
C
 1000 RETURN
      END
      SUBROUTINE UDU(NUMNP,IBAND,A,B)
      PARAMETER (NNP=3500,NEL=7000,IB=75,NBS=200)
C**** IMPLICIT REAL*8(A-H,O-Z)
      DIMENSION A(NNP,IB),B(NNP)
C     ********************************************************************
C
C     THIS SUBROUTINE SOLVES THE MATRIX EQUATION  AX=B  BY GAUSSIAN
C     ELIMINATION.  THE MATRIX (A) IS A BANDED SYMMETRIC MATRIX  AND (X)
C     AND (B) ARE COLUMN VECTORS.  THE RESULT IS RETURNED IN VECTOR (B).
C     NUMNP = NUMBER OF EQUATIONS  AND  IBAND=BANDWIDTH
C
C     ********************************************************************
```

```
C
      NEM1 = NUMNP - 1
C
      DO 120 I = 1,NEM1
        JEND = NUMNP - I + 1
        IF (JEND.GT.IBAND) JEND = IBAND
C
        DO 110 J = 2,JEND
          J1 = I + J - 1
C
          FAC = A(I,J)/A(I,1)
C
          K1 = 0
          DO 100 K = J,JEND
C
            K1 = K1 + 1
            A(J1,K1) = A(J1,K1) - A(I,K) * FAC
  100     CONTINUE
          A(I,J) = FAC
C
          B(J1) = B(J1) - B(I) * A(I,J)
  110   CONTINUE
  120 CONTINUE
C
C     BACK SUBSTITUTION
C
      B(NUMNP) = B(NUMNP)/A(NUMNP,1)
C
      DO 140 I = 1,NEM1
        I1 = NUMNP - I
        B(I1) = B(I1)/A(I1,1)
        JEND = NUMNP - I1 + 1
        IF (JEND.GT.IBAND) JEND = IBAND
        DO 130 J = 2,JEND
          J1 = I1 + J - 1
          B(I1) = B(I1) - A(I1,J) * B(J1)
  130   CONTINUE
  140 CONTINUE
C
  999 RETURN
      END
C*******************************************************************************
*
      SUBROUTINE MULT(NUMNP,IBAND,A,X,Y)
      PARAMETER (NNP=3500,NEL=7000,IB=75,NBS=200)
C*****IMPLICIT REAL*8(A-H,O-Z)
      DIMENSION A(NNP,IB),X(NNP),Y(NNP)
C     ******************************************************************
C
C     THIS SUBROUTINE MULTIPLIES A BANDED SYMMETRIC MATRIX TIMES A
C     VECTOR. THE PRODUCT OF MATRIX(A) AND VECTOR(X) IS VECTOR(Y).
C
C     ******************************************************************
C
C     IBAND MUST BE .LE. (NUMNP/2)
C     CHECK LIMITS ON IBAND
C
      IBT2 = IBAND * 2
C
      IF (IBT2 .GT. NUMNP) THEN
        WRITE (7,100)
        WRITE (*,100)
  100   FORMAT (///,9X,'*** E R R O R ***  # MULT1 ',/
     1       ' IBAND MUST BE LESS OR EQUAL TO (NUMNP/2)',//)
        STOP
```

```
      END IF
C     ***********************************************************************
C
C     (1) ROW
  110 Y(1) = 0.
      DO 120 J = 1,IBAND
  120 Y(1) = A(1,J) * X(J) + Y(1)
C
C     (2) TO (IBAND) ROW
      DO 150 I = 2,IBAND
        Y(I) = 0.
        IR = I - 1
        DO 130 J = 1,IBAND
          IR = IR + 1
  130   Y(I) = A(I,J) * X(IR) + Y(I)
        JC = 1
        IR = I
        DO 140 K = 2,I
          JC = JC + 1
          IR = IR - 1
  140   Y(I) = A(IR,JC) * X(IR) + Y(I)
  150 CONTINUE
C
C     (IBAND+1) TO (NUMNP-(IBAND-1)) ROW
      KR = NUMNP - IBAND + 1
      IBP1 = IBAND + 1
      DO 180 I = IBP1,KR
        Y(I) = 0.
        IR = I - 1
        DO 160 J = 1,IBAND
          IR = IR + 1
  160   Y(I) = A(I,J) * X(IR) + Y(I)
        JC = 1
        IR = I
        DO 170 K = 2,IBAND
          JC = JC + 1
          IR = IR - 1
  170   Y(I) = A(IR,JC) * X(IR) + Y(I)
  180 CONTINUE
C
C     (NUMNP-IBAND+2) TO (NUMNP) ROW
      KR = NUMNP - IBAND + 2
      KC = IBAND - 1
      DO 210 I = KR,NUMNP
        Y(I) = 0.
        IR = I - 1
        DO 190 J = 1,KC
          IR = IR + 1
  190   Y(I) = A(I,J) * X(IR) + Y(I)
        JC = 1
        IR = I
        DO 200 K = 2,IBAND
          JC = JC + 1
          IR = IR - 1
  200   Y(I) = A(IR,JC) * X(IR) + Y(I)
        KC = KC - 1
  210 CONTINUE
C
  999 RETURN
      END
C***********************************************************************
*
      SUBROUTINE MATFLOW
C     THIS SUBROUTINE ASSEMBLES AND SOLVES THE FLOW EQUATION
C     (MATRIX(AF)+(MATRIX(BF)/TDEL))=LHS COEFFICIENT MATRIX
```

```
C    (((MATRIX(BF)/TDEL) * VECTOR(HEAD)) - VECTOR(DF)) = KNOWN RHS VECTOR
C    SOLUTION IS BY THE POINT SUCCESIVE OVERRELAXATION ITERATIVE METHOD
C    ****************************************************************
     PARAMETER (NNP=3500,NEL=7000,IB=75,NBS=200)
C*****IMPLICIT REAL*8(A-H,O-Z)
     COMMON /BLOCKA/ NUMNP,X(NNP),Y(NNP),NUMEL,NI(NEL),NJ(NEL),
    1NK(NEL),TITLE(20),IBAND,IFLAG(5),TOL,RELAX
     COMMON /BLOCKB/ NTIM,NPMP,PINT,TIMX,TINIT,TPDAY,SUMT,
    +TDEL,TIMY
     COMMON /BLOCKC/NCODNP,NODEID(NNP),TRANS(NNP),HYDK1(NNP),THCK(NNP),
    1REC(NNP),SC(NNP),S,HEAD(NNP),HDI(NNP)
     COMMON /BLOCKE/ AF(NNP,IB),BF(NNP,IB),DF(NNP),CM(NNP,IB),RHS(NNP)
     COMMON /BLOCKH/ PRINTIT
     CHARACTER*1 PRINTIT
C    ****************************************************************
C
C    .....ABSOLUTE CONVERGENCE TEST
C    .....(1) ROW
     SUM = 0.
     DO 100 J = 2,IBAND
  100 SUM = (AF(1,J) + BF(1,J)/TDEL) + SUM
     IF (SUM.GT.(AF(1,1) + BF(1,1)/TDEL)) GO TO 170
C
C    .....(2) TO (IBAND) ROW
     DO 130 I = 2,IBAND
       SUM = 0.
       DO 110 J = 2,IBAND
  110    SUM = (AF(I,J) + BF(I,J)/TDEL) + SUM
       JC = 1
       IR = I
       DO 120 K = 2,I
         JC = JC + 1
         IR = IR - 1
  120    SUM = (AF(IR,JC) + BF(IR,JC)/TDEL) + SUM
       IF (SUM.GT.(AF(I,1) + BF(I,1)/TDEL)) GO TO 170
  130 CONTINUE
C
C    .....(IBAND+1) TO (NUMNP) ROW
     IBP1 = IBAND + 1
     DO 160 I = IBP1,NUMNP
       SUM = 0.
       DO 140 J = 2,IBAND
  140    SUM = (AF(I,J) + BF(I,J)/TDEL) + SUM
       JC = 1
       IR = I
       DO 150 K = 2,IBAND
         JC = JC + 1
         IR = IR - 1
  150    SUM = (AF(IR,JC) + BF(IR,JC)/TDEL) + SUM
       IF (SUM.GT.(AF(I,1) + BF(I,1)/TDEL)) GO TO 170
  160 CONTINUE
     GO TO 190
  170 WRITE (7,180)
     WRITE (*,180)
  180 FORMAT (///,1H0,
    +10X,'          ***** E R R O R  -- #PISOR1 ***WARNING***'/
    +10X,'         ABSOLUTE CONVERGENCE TEST FAILED IN MATFLOW'///)
  190 CONTINUE
C
C    .....CHECK ON TOL VS. AQUIFER THICKNESS
     DO 195 IPNT = 1,NUMNP
       IF (TRANS(IPNT) .LE. 0.1) GO TO 195
       TOLCHK = TOL / ( TRANS(IPNT)/HYDK1(IPNT) )
       IF (TOLCHK .GE. 0.01) THEN
         WRITE (*,194) IPNT
         WRITE (7,194) IPNT
```

```
 194    FORMAT(//,
   +    10X,'      ***** E R R O R -- PISOR2 *** WARNING ***'/
   +    10X,'AT NODE ',I4,' THE TOLERANCE (TOL) IS WITHIN 1 PERCENT O
   +    F THE THICKNESS',//)
        GO TO 198
      END IF
 195 CONTINUE
 198 CONTINUE
C
C    .....RHS VECTOR
     CALL MULT (NUMNP,IBAND,BF,HEAD,RHS)
     DO 200 I = 1,NUMNP
 200 RHS(I) = RHS(I)/TDEL - DF(I)
C    **********************************************************************
     ITMAX = 200
C    **********************************************************************
     DO 390 IT = 1,ITMAX
       ERROR = 0.0
C
C    .....(1) ROW
       SUM = 0.
       DO 210 J = 2,IBAND
 210   SUM = (AF(1,J) + BF(1,J)/TDEL) * HEAD(J) + SUM
       IF (NODEID(1).EQ.0.OR.NODEID(1).GT.10) GO TO 220
       REC(1) = RHS(1) - SUM - ((AF(1,1) + BF(1,1)/TDEL) * HEAD(1))
       GO TO 230
 220   HNEW = (RHS(1) - SUM)/(AF(1,1) + BF(1,1)/TDEL)
       RESID = HNEW - HEAD(1)
       HEAD(1) = HEAD(1) + RELAX * RESID
       RESID = ABS(RESID)
       ERROR = AMAX1(ERROR,RESID)
 230   CONTINUE
C
C    .....(2) TO (IBAND) ROW
       DO 270 I = 2,IBAND
         SUM = 0.
         IR = I
         DO 240 J = 2,IBAND
           IR = IR + 1
 240       SUM = (AF(I,J) + BF(I,J)/TDEL) * HEAD(IR) + SUM
         JC = 1
         IR = I
         DO 250 K = 2,I
           JC = JC + 1
           IR = IR - 1
 250       SUM = (AF(IR,JC) + BF(IR,JC)/TDEL) * HEAD(IR) + SUM
         IF (NODEID(I).EQ.0.OR.NODEID(I).GT.10) GO TO 260
         REC(I) = RHS(I) - SUM - ((AF(I,1) + BF(I,1)/TDEL) * HEAD(I))
         GO TO 270
 260       HNEW = (RHS(I) - SUM)/(AF(I,1) + BF(I,1)/TDEL)
         RESID = HNEW - HEAD(I)
         HEAD(I) = HEAD(I) + RELAX * RESID
         RESID = ABS(RESID)
         ERROR = AMAX1(ERROR,RESID)
 270   CONTINUE
C
C    .....(IBAND+1) TO (NUMNP-(IBAND-1)) ROW
       KR = NUMNP - IBAND + 1
       IBP1 = IBAND + 1
       DO 310 I = IBP1,KR
         SUM = 0.
         IR = I
         DO 280 J = 2,IBAND
           IR = IR + 1
 280       SUM = (AF(I,J) + BF(I,J)/TDEL) * HEAD(IR) + SUM
```

```
      JC = 1
      IR = I
      DO 290 K = 2,IBAND
        JC = JC + 1
        IR = IR - 1
290     SUM = (AF(IR,JC) + BF(IR,JC)/TDEL) * HEAD(IR) + SUM
      IF (NODEID(I).EQ.0.OR.NODEID(I).GT.10) GO TO 300
      REC(I) = RHS(I) - SUM - ((AF(I,1) + BF(I,1)/TDEL) * HEAD(I))
      GO TO 310
300     HNEW = (RHS(I) - SUM)/(AF(I,1) + BF(I,1)/TDEL)
      RESID = HNEW - HEAD(I)
      HEAD(I) = HEAD(I) + RELAX * RESID
      RESID = ABS(RESID)
      ERROR = AMAX1(ERROR,RESID)
310   CONTINUE
C
C     .....(NUMNP-IBAND+2) TO (NUMNP-1) ROW
      NUMNP1 = NUMNP - 1
      KR = NUMNP - IBAND + 2
      KC = IBAND - 1
      DO 350 I = KR,NUMNP1
        SUM = 0.
        IR = I
        DO 320 J = 2,KC
          IR = IR + 1
320     SUM = (AF(I,J) + BF(I,J)/TDEL) * HEAD(IR) + SUM
      JC = 1
      IR = I
      DO 330 K = 2,IBAND
        JC = JC + 1
        IR = IR - 1
330     SUM = (AF(IR,JC) + BF(IR,JC)/TDEL) * HEAD(IR) + SUM
      IF (NODEID(I).EQ.0.OR.NODEID(I).GT.10) GO TO 340
      REC(I) = RHS(I) - SUM - ((AF(I,1) + BF(I,1)/TDEL) * HEAD(I))
      GO TO 350
340     HNEW = (RHS(I) - SUM)/(AF(I,1) + BF(I,1)/TDEL)
      RESID = HNEW - HEAD(I)
      HEAD(I) = HEAD(I) + RELAX * RESID
      RESID = ABS(RESID)
      ERROR = AMAX1(ERROR,RESID)
      KC = KC - 1
350   CONTINUE
C
C     .....(NUMNP) ROW
      SUM = 0.
      JC = 1
      IR = NUMNP
      DO 360 K = 2,IBAND
        JC = JC + 1
        IR = IR - 1
360   SUM = (AF(IR,JC) + BF(IR,JC)/TDEL) * HEAD(IR) + SUM
      IF (NODEID(NUMNP).EQ.0.OR.NODEID(NUMNP).GT.10) GO TO 370
      REC(NUMNP) = RHS(NUMNP) - SUM - ((AF(NUMNP,1) + BF(NUMNP,1)/TDE
     1  L) * HEAD(NUMNP))
      GO TO 380
370   HNEW = (RHS(NUMNP) - SUM)/(AF(NUMNP,1) + BF(NUMNP,1)/TDEL)
      RESID = HNEW - HEAD(NUMNP)
      HEAD(NUMNP) = HEAD(NUMNP) + RELAX * RESID
      RESID = ABS(RESID)
      ERROR = AMAX1(ERROR,RESID)
380   IF (ERROR.LE.TOL) GO TO 410
390 CONTINUE
C
    WRITE (7,400)
    WRITE (*,400)
400 FORMAT (/////,1H1,
```

```
     +10X,'      ***** E R R O R  -- #PISOR3 *****',/
     +10X,'STOP--MAXIMUM ALLOWABLE NUMBER OF ITERATIONS HAS BEEN',/
     +10X,'REACHED IN SUBROUTINE MATFLOW (NO SOLUTION REACHED)'///)
      STOP
C
  410 WRITE (7,420) IT,SUMT
      WRITE (*,420) IT,SUMT
  420 FORMAT (/,5X'MATFLOW ITERATIONS='I5,10X'TIME='F12.7)
C
  440 RETURN
      END
      SUBROUTINE WATBAL
C     ******************************************************************
C     THIS SUBROUTINE CALCULATES A WATER BALANCE
C     ******************************************************************
      PARAMETER (NNP=3500,NEL=7000,IB=75,NBS=200)
C*****IMPLICIT REAL*8(A-H,O-Z)
      COMMON /BLOCKA/ NUMNP,X(NNP),Y(NNP),NUMEL,NI(NEL),NJ(NEL),
     1NK(NEL),TITLE(20),IBAND,IFLAG(5),TOL,RELAX
      COMMON /BLOCKB/ NTIM,NPMP,PINT,TIMX,TINIT,TPDAY,SUMT,
     1TDEL,TIMY
      COMMON /BLOCKC/NCODNP,NODEID(NNP),TRANS(NNP),HYDK1(NNP),THCK(NNP),
     1REC(NNP),SC(NNP),S,HEAD(NNP),HDI(NNP)
      COMMON /BLOCKD/ NCODEL,IDELEM(NEL),RECH(NEL),VPRM(NEL),AREA(NEL),
     +              HDLEAK(NEL)
      COMMON /BLOCKF/QINRCH,QOUTRCH,QINREC,QOUTREC,QINCHN,QOUTCHN,
     1QINLEK,QOUTLEK,QSTOR,QINGHB,QOUTGHB,QINDR,QOUTDR
      COMMON /BLOCKG/ NUMBS,NGHB(NBS,2),GHBCOND(NBS),GHBHEAD(NBS),
     1SLENGTH(NBS),QGHB(NBS),QBSNODE(NNP),QDR(NNP),DRCOND(NNP),
     2DRELEV(NNP)
      COMMON /BLOCKH/ PRINTIT
      CHARACTER*1 PRINTIT
C     ******************************************************************
C
C     .....CALCULATE FLUX FROM DISTRIBUTED RECHARGE AND DISCHARGE SOURCE
      DO 110 NE = 1,NUMEL
        IF (RECH(NE).GT.0.0) GO TO 100
        QINRCH = RECH(NE) * AREA(NE) * TDEL + QINRCH
        GO TO 110
  100   QOUTRCH = RECH(NE) * AREA(NE) * TDEL + QOUTRCH
  110 CONTINUE
C
C     .....CALCULATE FLUX FROM POINT RECHARGE AND DISCHARGE SOURCES
C          (EXCLUDING CONSTANT HEAD NODES)
      DO 130 NP = 1,NUMNP
        IF (NODEID(NP).GE.1.AND.NODEID(NP).LE.10) GO TO 130
        IF (REC(NP).GT.0.0) GO TO 120
        QINREC = REC(NP) * TDEL + QINREC
        GO TO 130
  120   QOUTREC = REC(NP) * TDEL + QOUTREC
  130 CONTINUE
C
C     .....CALCULATE FLUX FROM POINT RECHARGE AND DISCHARGE SOURCES
C          (AT CONSTANT HEAD NODES ONLY)
      DO 150 NP = 1,NUMNP
        IF (NODEID(NP).EQ.0.OR.NODEID(NP).GT.10) GO TO 150
        IF (REC(NP).GT.0.0) GO TO 140
        QINCHN = REC(NP) * TDEL + QINCHN
        GO TO 150
  140   QOUTCHN = REC(NP) * TDEL + QOUTCHN
  150 CONTINUE
C
C     .....CALCULATE FLUX FROM VERTICAL LEAKAGE
      DO 170 NE = 1,NUMEL
        IF (VPRM(NE).EQ.0.0) GO TO 170
```

```
      HEADBAR = (HEAD(NI(NE)) + HEAD(NJ(NE)) + HEAD(NK(NE)))/3.
      VLEK = VPRM(NE) * (HEADBAR - HDLEAK(NE)) * AREA(NE)
      IF (VLEK.GT.0.0) GO TO 160
      QINLEK = VLEK * TDEL + QINLEK
      GO TO 170
  160   QOUTLEK = VLEK * TDEL + QOUTLEK
  170 CONTINUE
C
C     .....CALCULATE FLUX FROM HEAD-DEPENDANT NODES (DRAINS AND RIVERS)
C           DRCOND = +, DRAIN          DRCOND = -, RIVER
      DO 180 NP=1,NUMNP
        IF (NODEID(NP).GE.1 .AND. NODEID(NP).LE.10) GO TO 180
        IF (DRCOND(NP) .EQ. 0.0) THEN
          GO TO 180
        ELSEIF (HEAD(NP).LE.DRELEV(NP) .AND. DRCOND(NP).GT.0.0) THEN
          GO TO 180
        ELSEIF (HEAD(NP).LE.DRELEV(NP) .AND. DRCOND(NP).LT.0.0) THEN
          QDR(NP) = (ABS(DRCOND(NP))) * (HEAD(NP)-DRELEV(NP))
          QINDR = QINDR + QDR(NP)*TDEL
        ELSE
          QDR(NP) = DRCOND(NP) * (HEAD(NP)-DRELEV(NP))
          QOUTDR = QOUTDR + QDR(NP)*TDEL
        END IF
  180 CONTINUE
C
C     .....CALCULATE GHB FLOW IN OR OUT OF THE DOMAIN
C
      IF (NUMBS .GT. 0) THEN
        DO 200 NS = 1,NUMBS
          QBSNODE(NGHB(NS,1))= (SLENGTH(NS)*GHBCOND(NS))*
     1      (HEAD(NGHB(NS,1))/3.+HEAD(NGHB(NS,2))/6.-GHBHEAD(NS)/2.)
          QBSNODE(NGHB(NS,2))= (SLENGTH(NS)*GHBCOND(NS))*
     1      (HEAD(NGHB(NS,2))/3.+HEAD(NGHB(NS,1))/6.-GHBHEAD(NS)/2.)
          QGHB(NS)= QBSNODE(NGHB(NS,1)) + QBSNODE(NGHB(NS,2))
          IF (QGHB(NS) .GT. 0.) GO TO 190
            QINGHB=QINGHB+QGHB(NS)*TDEL
          GO TO 200
  190       QOUTGHB=QOUTGHB+QGHB(NS)*TDEL
  200   CONTINUE
      END IF
C
C     .....CALCULATE CHANGE IN STORAGE IN THE AQUIFER
      QSTOR = 0.
      DO 260 NE = 1,NUMEL
        HEADBAR = (HEAD(NI(NE)) + HEAD(NJ(NE)) + HEAD(NK(NE)))/3.
        HDIBAR = (HDI(NI(NE)) + HDI(NJ(NE)) + HDI(NK(NE)))/3.
        SA = (SC(NI(NE)) + SC(NJ(NE)) + SC(NK(NE)))/3.
  260 QSTOR = SA * (HDIBAR - HEADBAR) * AREA(NE) + QSTOR
C
  999 RETURN
      END
C*****************************************************************************
*
      SUBROUTINE FLOWOUT
      PARAMETER (NNP=3500,NEL=7000,IB=75,NBS=200)
C**** IMPLICIT REAL*8(A-H,O-Z)
      COMMON /BLOCKA/ NUMNP,X(NNP),Y(NNP),NUMEL,NI(NEL),NJ(NEL),
     1NK(NEL),TITLE(20),IBAND,IFLAG(5),TOL,RELAX
      COMMON /BLOCKB/ NTIM,NPMP,PINT,TIMX,TINIT,TPDAY,SUMT,
     1TDEL,TIMY
      COMMON /BLOCKC/NCODNP,NODEID(NNP),TRANS(NNP),HYDK1(NNP),THCK(NNP),
     1REC(NNP),SC(NNP),S,HEAD(NNP),HDI(NNP)
      COMMON /BLOCKF/QINRCH,QOUTRCH,QINREC,QOUTREC,QINCHN,QOUTCHN,
     1QINLEK,QOUTLEK,QSTOR,QINGHB,QOUTGHB,QINDR,QOUTDR
      COMMON /BLOCKG/ NUMBS,NGHB(NBS,2),GHBCOND(NBS),GHBHEAD(NBS),
     1SLENGTH(NBS),QGHB(NBS),QBSNODE(NNP),QDR(NNP),DRCOND(NNP),
```

```
     2DRELEV(NNP)
      COMMON /BLOCKH/ PRINTIT
      DIMENSION ND(5),DRWDN(5)
      CHARACTER*1 PRINTIT
C     ********************************************************************
C     THIS SUBROUTINE PRINTS THE MAJOR OUTPUT FROM THE MODEL.
C     IT PRINTS A HEAD MAP, DRAWDOWN MAP, CUMULATIVE MASS BALANCE,
C     FLOW BY NODE ID AND FLOW FROM CONSTANT HEAD NODES.
C     ********************************************************************
C
C     .....PRINT HEAD VALUES -- FT
      WRITE (7,100)
  100 FORMAT (1H1,4X,23HHEAD DISTRIBUTION -- FT/5X,23H----------
     1-----)
      IF (S.EQ.0.) GO TO 130
      WRITE (7,110) SUMT
  110 FORMAT (1H0,4X,13HTIME(DAYS) = ,F10.3)
      WRITE (7,120) TIMY
  120 FORMAT (5X,13HTIME(YEARS)= ,F10.5)
      GO TO 150
  130 WRITE (7,140)
  140 FORMAT (1H0,4X,21HSTEADY STATE SOLUTION)
  150 WRITE (7,160)
  160 FORMAT (///1H ,9X,4HNODE,10X,4HHEAD,12X,4HNODE,10X,4HHEAD
     1 )
      WRITE (7,170) (NP,HEAD(NP),NP = 1,NUMNP)
  170 FORMAT (2(10X,I5,5X,F12.3))
C
C     .....PRINT DRAWDOWN VALUES -- FT
      WRITE (7,180)
  180 FORMAT (1H1,4X,27HDRAWDOWN DISTRIBUTION -- FT/5X,27H----------
     1----------)
      IF (S.EQ.0.) GO TO 190
      WRITE (7,110) SUMT
      WRITE (7,120) TIMY
      GO TO 200
  190 WRITE (7,140)
  200 WRITE (7,210)
  210 FORMAT (///1H ,9X,4HNODE,9X,8HDRAWDOWN,9X,4HNODE,9X,8HDRAWDOWN
     1)
      IR = 0
      KR = 1
      KC = 2
  220 DO 230 NP = KR,KC
        IR = IR + 1
        ND(IR) = NP
  230 DRWDN(IR) = HDI(NP) - HEAD(NP)
      WRITE (7,240) (ND(I),DRWDN(I),I = 1,IR)
  240 FORMAT (2(10X,I5,5X,F12.3))
      IF (KC.EQ.NUMNP) GO TO 250
      IR = 0
      KR = KC + 1
      KC = KC + 2
      IF (KC.GT.NUMNP) KC = NUMNP
      GO TO 220
C
C     .....PRINT CUMULATIVE WATER BALANCE -- GALLONS
  250 WRITE (7,260)
  260 FORMAT (///1H1,4X,36HCUMULATIVE WATER BALANCE -- GALLONS/5X,31H--
     1--------------------------)
      WRITE (7,110) SUMT
       WRITE (7,120) TIMY
CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
      QINRCH=QINRCH*7.48048
      QOUTRCH=QOUTRCH*7.48048
```

```
      QINREC=QINREC*7.48048
      QOUTREC=QOUTREC*7.48048
      QINDR=QINDR*7.48048
      QOUTDR=QOUTDR*7.48048
      QINGHB=QINGHB*7.48048
      QOUTGHB=QOUTGHB*7.48048
      QINLEK=QINLEK*7.48048
      QOUTLEK=QOUTLEK*7.48048
      QINCHN=QINCHN*7.48048
      QOUTCHN=QOUTCHN*7.48048
CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
      WRITE (7,270) QINRCH,QOUTRCH
  270 FORMAT (//,15X,38HQINRCH  (RECHARGE-DISTRIBUTED)      =,F15.3,/,1
     15X,38HQOUTRCH (DISCHARGE-DISTRIBUTED)     =,F15.3)
      WRITE (7,280) QINREC,QOUTREC
  280 FORMAT (/,15X,38HQINREC  (RECHARGE-POINT)          =,F15.3,/,15
     1X,38HQOUTREC (DISCHARGE-POINT)          =,F15.3)
      WRITE (7,285) QINDR,QOUTDR
  285 FORMAT (/,15X,38HQINDR  (RECHARGE-RIVER)          =,F15.3,/,15
     1X,38HQOUTDR  (DISCHARGE-DRAIN/RIVER)     =,F15.3)
      WRITE (7,287) QINGHB,QOUTGHB
  287 FORMAT (/,15X,38HQINGHB (HEAD-DEP. INFLOW)          =,F15.3,/,15
     1X,38HQOUTGHB (HEAD-DEP. OUTFLOW)         =,F15.3)
      WRITE (7,290) QINLEK,QOUTLEK
  290 FORMAT (/,15X,38HQINLEK  (RECHARGE-LEAKAGE)         =,F15.3,/,15
     1X,38HQOUTLEK (DISCHARGE-LEAKAGE)         =,F15.3)
      WRITE (7,310) QINCHN,QOUTCHN
  310 FORMAT (/,15X,38HQINCHN  (RECHARGE-CONST HEAD NODES)  =,F15.3,/,15
     1X,38HQOUTCHN (DISCHARGE-CONST HEAD NODES) =,F15.3)
C
      QIN = QINRCH + QINREC + QINLEK + QINCHN + QINGHB + QINDR
      QOUT = QOUTRCH + QOUTREC + QOUTLEK + QOUTCHN + QOUTGHB + QOUTDR
      WRITE (7,320) QIN,QOUT
  320 FORMAT (56X,12H----------/,40X,13HTOTAL QIN   =,F15.3/,40X,13HTO
     1TAL QOUT  =,F15.3)
      QSTOR=QSTOR*7.48048
      WRITE (7,330) QSTOR
  330 FORMAT (/,15X,38HQSTOR  (WATER RELEASED FROM STORAGE) =,F15.3)
C
C     .....CALCULATE & PRINT MASS BALANCE RESIDUAL & ERROR AS A PER CENT
      QRESID = QIN + QOUT - QSTOR
      QRESID = ABS(QRESID)
      WRITE (7,340) QRESID
  340 FORMAT (//,25X,28HMASS BALANCE RESIDUAL      =,F15.3)
      QERRIN = 0.
      IF (QIN.NE.0.0) QERRIN = ABS(QRESID)/( - QIN) * 100.
      QERROUT = 0.
      IF (QOUT.NE.0.0) QERROUT = ABS(QRESID)/QOUT * 100.
      QERRSTR = 0.
      IF (QSTOR.NE.0.0) QERRSTR = ABS(QRESID)/ABS(QSTOR) * 100.
      WRITE (7,350) QERRIN,QERROUT,QERRSTR
  350 FORMAT (25X,28HERROR AS PERCENT OF QIN    =,F15.3/,25X,28HERROR AS
     1 PERCENT OF QOUT   =,F15.3/,25X,28HERROR AS PERCENT OF QSTOR  =,F1
     25.3)
CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
      QINRCH=QINRCH/7.48048
      QOUTRCH=QOUTRCH/7.48048
      QINREC=QINREC/7.48048
      QOUTREC=QOUTREC/7.48048
      QINDR=QINDR/7.48048
      QOUTDR=QOUTDR/7.48048
      QINGHB=QINGHB/7.48048
      QOUTGHB=QOUTGHB/7.48048
      QINLEK=QINLEK/7.48048
      QOUTLEK=QOUTLEK/7.48048
      QINCHN=QINCHN/7.48048
```

```
      QOUTCHN=QOUTCHN/7.48048
      QSTOR=QSTOR/7.48048
CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
C
C     .....PRINT FLOW BY NODE ID -- GPM
      WRITE (7,360)
  360 FORMAT (///1H0,4X,23HFLOW BY NODE ID -- GPM/3X,28H----------
     1----------)
      DO 400 NC = 1,NCODNP
        QINNID = 0.
        QOUTNID = 0.
        DO 380 NP = 1,NUMNP
          IF (NODEID(NP).NE.NC) GO TO 380
          IF (REC(NP).LE.0.) GO TO 370
          QOUTNID = QOUTNID + REC(NP) / 86400.
          GO TO 380
  370       QINNID = QINNID + REC(NP) / 86400.
  380     CONTINUE
        IF (QINNID.EQ.0.0.AND.QOUTNID.EQ.0.0) GO TO 400
CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
        QINNID=QINNID*448.8288
        QOUTNID=QOUTNID*448.8288
CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
        WRITE (7,390) NC,QINNID,NC,QOUTNID
  390 FORMAT (/5X,5HQIN (,I5,2H)=,5X,F12.5/5X,5HQOUT(,I5,2H)=,5X,F12.5)
CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
        QINNID=QINNID/448.8288
        QOUTNID=QOUTNID/448.8288
CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
  400 CONTINUE
C
C     .....PRINT FLOW BY NODE ID FOR DRAINS AND RIVERS
      DO 420 NC = 11,NCODNP
        QINNID = 0.
        QOUTNID = 0.
        DO 410 NP = 1,NUMNP
          IF (NODEID(NP).NE.NC) GO TO 410
          IF (DRCOND(NP).EQ.0) GO TO 410
          IF (QDR(NP).LE.0.) GO TO 405
          QOUTNID = QOUTNID + QDR(NP) / 86400.
          GO TO 410
  405       QINNID = QINNID + QDR(NP) / 86400.
  410     CONTINUE
        IF (QINNID.EQ.0.0.AND.QOUTNID.EQ.0.0) GO TO 420
CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
        QINNID=QINNID*448.8288
        QOUTNID=QOUTNID*448.8288
CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
        WRITE (7,415) NC,QINNID,NC,QOUTNID
  415 FORMAT (/5X,5HQIN (,I5,2H)=,5X,F12.5,' (RIVER NODE)'/
     +5X,5HQOUT(,I5,2H)=,5X,F12.5,' (RIVER/DRAIN NODE)')
CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
        QINNID=QINNID/448.8288
        QOUTNID=QOUTNID/448.8288
CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
  420 CONTINUE
C
C     .....PRINT FLOW BY BOUNDARY SEGMENTS
      IF (NUMBS .GT. 0) THEN
        WRITE(7,430)
  430   FORMAT(//1H0,4X,'FLOW FROM GHB SEGMENTS -- GPM'/,5X,
     1  'POSITIVE IS OUTFLOW, NEGATIVE IS INFLOW')
        DO 440 NS = 1,NUMBS
          QGHB(NS)= QGHB(NS)/86400.
CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
```

```
      QGHB(NS)=QGHB(NS)*448.8288
CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
       WRITE(7,435)NS,QGHB(NS)
 435    FORMAT(5X, 5HSIDE(,I5,2H)=,5X,F12.5)
CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
      QGHB(NS)=QGHB(NS)/448.8288
CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
       QGHB(NS)=QGHB(NS)*86400.
 440   CONTINUE
 445 END IF
C
C    .....PRINT FLOW FROM CONSTANT HEAD NODES -- GPM
     WRITE (7,450)
 450 FORMAT (///1H0,4X,42HFLOW FROM CONSTANT HEAD NODES -- GPM    /,5
    1X,31HPOSITIVE IS DISCHARGE (PUMPAGE)/,5X,32HNEGATIVE IS RECHARGE (
    2INJECTION))
     DO 460 NP = 1,NUMNP
       IF (NODEID(NP).EQ.0.OR.NODEID(NP).GT.10) GO TO 460
       REC(NP) = REC(NP) / 86400.
CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
       REC(NP)=REC(NP)*448.8288
CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
       WRITE (7,455) NP,REC(NP)
CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
       REC(NP)=REC(NP)/448.8288
CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
       REC(NP) = REC(NP) * 86400.
 455   FORMAT (5X,5HNODE(,I5,2H)=,5X,F12.5)
 460 CONTINUE
C
C    .....WRITE HEADS FOR PLOTTING
     WRITE(8,480)SUMT
 480 FORMAT (' HEAD SOLUTION -- TIME = ',F10.5,' DAYS.')
     WRITE (8,485)(NP,HEAD(NP),NP=1,NUMNP)
 485 FORMAT (5(I5,F10.2))
C
C    .....WRITE DRAWDOWNS FOR PLOTTING
 500 WRITE (8,510) SUMT
 510 FORMAT (' DRAWDOWNS -- TIME = ',F10.5,' DAYS.')
     IR = 0
     KR = 1
     KC = 5
 520 DO 530 NP = KR,KC
       IR = IR + 1
       ND(IR) = NP
 530 DRWDN(IR) = HDI(NP) - HEAD(NP)
     WRITE (8,540) (ND(I),DRWDN(I),I = 1,IR)
 540 FORMAT (5(I5,F10.2))
     IF (KC.EQ.NUMNP) GO TO 1000
     IR = 0
     KR = KC + 1
     KC = KC + 5
     IF (KC.GT.NUMNP) KC = NUMNP
     GO TO 520
C    ******************************************************************
1000 CONTINUE
     CALL LAYER
 999 RETURN
     END
     SUBROUTINE TRANADJ
C    ******************************************************************
C    THIS SUBROUTINE ADJUSTS THE TRANSMISSIVITY FOR THE MODIFIED
C    ONE LAYER MODEL AT THE ROCKY MOUNTAIN ARSENAL.
C    ******************************************************************
     PARAMETER (NNP=3500,NEL=7000,IB=75,NBS=200)
C*****IMPLICIT REAL*8(A-H,O-Z)
```

```
      COMMON /BLOCKA/ NUMNP,X(NNP),Y(NNP),NUMEL,NI(NEL),NJ(NEL),
     1NK(NEL),TITLE(20),IBAND,IFLAG(5),TOL,RELAX
      COMMON /BLOCKC/NCODNP,NODEID(NNP),TRANS(NNP),HYDK1(NNP),THCK(NNP),
     1REC(NNP),SC(NNP),S,HEAD(NNP),HDI(NNP)
      COMMON /BLOCKD/ NCODEL,IDELEM(NEL),RECH(NEL),VPRM(NEL),AREA(NEL),
     +              HDLEAK(NEL)
      COMMON /BLOCKT/GS(NNP),ZBED(NNP),ZBASE(NNP),HYDK2(NNP)
C     ******************************************************************
C
C     ADJUST TRANSMISSIVITY FOR MODIFIED ONE LAYER MODEL
C
      IF(IFLAG(1) .EQ. 3)THEN
      DO 100 I = 1,NUMNP
      IF(HEAD(I) .GT. GS(I))THEN
        TRANS(I)=HYDK1(I)*  (GS(I)-ZBED(I))+HYDK2(I)*(ZBED(I)-ZBASE(I))
      ELSEIF(HEAD(I) .LE.  GS(I) .AND. HEAD(I) .GT. ZBED(I))THEN
        TRANS(I)=HYDK1(I)*(HEAD(I)-ZBED(I))+HYDK2(I)*(ZBED(I)-ZBASE(I))
      ELSEIF(HEAD(I) .LE. ZBED(I) .AND. HEAD(I) .GT. ZBASE(I))THEN
        TRANS(I)=HYDK2(I)*(HEAD(I)-ZBASE(I))
      ELSE
        TRANS(I)=0.
      ENDIF
  100 CONTINUE
C
C     SET MINIMUM TRANSMISSIVITY
C
      DO 150 I=1,NUMNP
        TMIN=HYDK2(I)*1.
        IF(TRANS(I) .LT. TMIN)TRANS(I)=TMIN
  150 CONTINUE
      ENDIF
C
C     ADJUST TRANSMISSIVITY FOR UNCONFINED AQUIFER
C
      IF(IFLAG(1) .EQ. 1)THEN
      DO 200 I=1,NUMNP
      IF(HEAD(I) .GT. GS(I))THEN
        TRANS(I)=HYDK1(I)*(GS(I)-ZBED(I))
      ELSEIF(HEAD(I) .LE. GS(I) .AND. HEAD(I) .GT. ZBED(I))THEN
        TRANS(I)=HYDK1(I)*(HEAD(I)-ZBED(I))
      ELSE
        TRANS(I)=0.
      ENDIF
  200 CONTINUE
C
C     SET MINIMUM TRANSMISSIVITY
C
      DO 250 I=1,NUMNP
        TMIN=HYDK1(I)*1.
        IF(TRANS(I) .LT. TMIN)TRANS(I)=TMIN
  250 CONTINUE
      ENDIF
  999 RETURN
      END
      SUBROUTINE LAYER
C     ******************************************************************
C     THIS SUBROUTINE IDENTIFIES WHICH AQUIFER THE WATER LEVEL AT NODE I
C     IS IN (BEDROCK OR ALLUVIUM).
C     ******************************************************************
      PARAMETER (NNP=3500,NEL=7000,IB=75,NBS=200)
C**** IMPLICIT REAL*8(A-H,O-Z)
      COMMON /BLOCKA/ NUMNP,X(NNP),Y(NNP),NUMEL,NI(NEL),NJ(NEL),
     1NK(NEL),TITLE(20),IBAND,IFLAG(5),TOL,RELAX
      COMMON /BLOCKC/NCODNP,NODEID(NNP),TRANS(NNP),HYDK1(NNP),THCK(NNP),
     1REC(NNP),SC(NNP),S,HEAD(NNP),HDI(NNP)
```

```
      COMMON /BLOCKD/ NCODEL,IDELEM(NEL),RECH(NEL),VPRM(NEL),AREA(NEL),
     +               HDLEAK(NEL)
      COMMON /BLOCKT/GS(NNP),ZBED(NNP),ZBASE(NNP),HYDK2(NNP)
C     ****************************************************************
C
C     IDENTIFY LAYER
C
      WRITE(7,30)
   30 FORMAT(//)
C>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
C      OPEN (10,FILE="hwhere.dat",STATUS="NEW")
C>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
      DO 100 I =1,NUMNP
      IF(HEAD(I) .GT. GS(I))THEN
        WRITE(7,10)I
   10 FORMAT(' THE WATER LEVEL AT NODE ',I5,' IS ABOVE GROUND SURFACE.')
      ELSEIF(HEAD(I) .LE.  GS(I) .AND. HEAD(I) .GT. ZBED(I))THEN
C       WRITE(7,15)I
C  15 FORMAT(' THE WATER LEVEL AT NODE ',I5,' IS IN THE ALLUVIUM.')
      ELSEIF(HEAD(I) .LE. ZBED(I) .AND. HEAD(I) .GT. ZBASE(I))THEN
        WRITE(7,20)I
   20 FORMAT(' THE WATER LEVEL AT NODE ',I5,' IS IN THE BEDROCK.')
      ELSE
        WRITE(7,25)I
   25 FORMAT(' NODE ',I5,' IS DRY.')
      ENDIF
  100 CONTINUE
  999 RETURN
      END
```

Appendix B
Steady-State Calibration Input File

```
WES MESH
 NTIM, NPMP,   PINT, PRINTIT, TIMX,   TINIT (2I5,F10.0,4X,A1,2F10.0)
50050   1 50000.00   Y    1.500 3600.000     5.0
SIMULATION OPTION IFLAG1(I1)-(0=CONFINED,1=UNCONFINED&3=M ODIFIED ONE LAYER MODEL)
3
SIMULATION OPTION IFLAG2,TOL,RELAX (I1,2F10.0) - (0=GAUSS & 1=PISOR)
0 0.000000 0.000000
SIMULATION OPTION IFLAG3 (I1) - (0=GWFLOW DATA & 1=GWTRAN DATA)
0
NUMNP,NUMEL,IBAND  (3I5)
 3359 6466  69
NODAL COORDINATES: FCTR (F10.0); NODE, X,Y  (3(I5,2F10.0))
  400.000
   1   0.000   17.540   2   0.432   17.169   3   0.800   18.411
   4   0.861   16.801   5   1.239   18.038   6   1.550   19.250
   7   1.287   16.435   8   1.676   17.666   9   1.991   18.875
  10   2.250   20.056  11   1.709   16.071  12   1.700   16.737
  13   2.432   18.500  14   2.689   19.681  15   2.900   20.830
  16   3.333   20.455  17   2.129   15.710  18   2.546   16.924
  19   2.874   18.124  20   3.130   19.303  21   3.769   20.076
  22   3.385   21.360  23   3.831   20.961  24   2.545   15.351
  25   2.979   16.556  26   3.315   17.749  27   3.648   18.770
  28   4.209   19.695  29   4.278   20.560  30   3.841   21.860
  31   4.299   21.437  32   2.958   14.995  33   3.410   16.188
  34   3.757   17.373  35   4.018   18.544  36   4.653   19.311
  37   4.729   20.157  38   4.759   21.014  39   4.267   22.330
  40   4.739   21.885  41   3.367   14.641  42   3.840   15.821
  43   4.199   16.997  44   4.464   18.163  45   5.100   18.924
  46   5.181   19.752  47   5.220   20.591  48   5.212   21.441
  49   4.663   22.771  50   5.150   22.304  51   3.774   14.290
  52   4.268   15.455  53   4.485   16.708  54   4.913   17.779
  55   5.551   18.535  56   5.637   19.346  57   5.683   20.166
  58   5.684   20.997  59   5.636   21.839  60   5.030   23.182
  61   5.253   22.980  62   4.177   13.941  63   4.695   15.091
  64   5.084   16.244  65   5.364   17.395  66   6.006   18.142
  67   6.094   18.938  68   6.147   19.741  69   6.157   20.552
  70   5.963   21.392  71   6.031   22.208  72   5.367   23.563
  73   5.884   23.054  74   4.577   13.594  75   5.120   14.727
  76   5.527   15.868  77   5.816   17.008  78   6.464   17.747
  79   6.555   18.528  80   6.612   19.315  81   6.630   20.109
  82   6.604   20.911  83   6.528   21.724  84   6.398   22.549
  85   5.674   23.915  86   6.208   23.386  87   4.974   13.250
  88   5.544   14.365  89   5.970   15.491  90   6.271   16.620
  91   6.926   17.349  92   7.017   18.116  93   7.305   19.052
  94   7.103   19.665  95   7.086   20.450  96   7.023   21.243
  97   6.908   22.046  98   6.736   22.861  99   5.952   24.237
 100   6.502   23.689 101   5.368   12.908 102   5.966   14.004
 103   6.413   15.114 104   6.727   16.231 105   6.200   24.530
 106   6.335   24.677 107   6.468   24.824 108   6.601   24.970
 109   6.733   25.115 110   6.864   25.259 111   6.993   25.403
 112   7.122   25.546 113   7.251   25.689 114   7.378   25.831
 115   7.504   25.972 116   7.629   26.112 117   7.754   26.252
 118   7.877   26.391 119   8.000   26.530 120   8.122   26.668
 121   8.242   26.805 122   8.362   26.942 123   8.481   27.078
```

124	8.599	27.213	125	8.716	27.347	126	8.833	27.481
127	8.948	27.614	128	9.062	27.747	129	9.176	27.879
130	9.288	28.010	131	9.400	28.141	132	9.510	28.271
133	9.620	28.400	134	10.123	28.982	135	10.618	29.553
136	11.104	30.112	137	11.583	30.660	138	12.055	31.197
139	12.518	31.722	140	12.973	32.236	141	13.420	32.739
142	13.860	33.230	143	7.391	16.948	144	7.482	17.702
145	7.545	18.460	146	7.575	19.222	147	7.567	19.989
148	7.515	20.764	149	7.415	21.547	150	7.260	22.341
151	7.046	23.145	152	6.767	23.962	153	5.758	12.569
154	6.387	13.644	155	6.857	14.736	156	7.186	15.840
157	6.548	24.520	158	7.008	24.296	159	7.127	24.461
160	6.855	24.945	161	7.363	24.789	162	7.479	24.951
163	7.265	25.413	164	7.710	25.273	165	7.825	25.432
166	7.678	25.883	167	8.051	25.748	168	8.162	25.905
169	8.273	26.060	170	8.090	26.373	171	8.493	26.369
172	8.602	26.521	173	8.443	26.870	174	8.816	26.824
175	8.923	26.973	176	9.028	27.122	177	9.132	27.270
178	9.236	27.417	179	9.203	27.718	180	9.441	27.707
181	9.543	27.851	182	9.643	27.994	183	9.743	28.136
184	9.842	28.277	185	10.336	28.872	186	10.822	29.456
187	11.300	30.029	188	11.770	30.590	189	12.233	31.141
190	12.688	31.680	191	13.135	32.208	192	13.574	32.724
193	14.006	33.230	194	7.861	16.544	195	7.950	17.287
196	8.014	18.031	197	8.048	18.778	198	8.047	19.530
199	8.006	20.287	200	7.918	21.051	201	7.779	21.824
202	7.584	22.607	203	7.327	23.400	204	7.435	23.587
205	6.146	12.232	206	6.806	13.285	207	7.300	14.359
208	7.646	15.448	209	7.541	23.773	210	7.647	23.958
211	7.752	24.141	212	7.856	24.323	213	7.960	24.504
214	8.063	24.683	215	8.165	24.861	216	8.267	25.038
217	8.368	25.214	218	8.468	25.388	219	8.567	25.561
220	8.666	25.732	221	8.764	25.903	222	8.862	26.072
223	8.958	26.240	224	9.054	26.406	225	9.150	26.572
226	9.244	26.736	227	9.338	26.898	228	9.431	27.060
229	9.524	27.220	230	9.616	27.379	231	9.707	27.536
232	9.797	27.693	233	9.887	27.847	234	9.976	28.001
235	10.064	28.154	236	10.549	28.762	237	11.027	29.359
238	11.497	29.945	239	11.958	30.520	240	12.413	31.084
241	12.859	31.637	242	13.298	32.179	243	13.729	32.710
244	14.152	33.230	245	8.334	16.137	246	8.420	16.869
247	8.484	17.602	248	8.521	18.335	249	8.526	19.072
250	8.494	19.813	251	8.418	20.559	252	8.294	21.312
253	8.117	22.074	254	7.881	22.845	255	7.974	23.052
256	7.945	23.494	257	6.530	11.897	258	7.224	12.927
259	8.115	14.355	260	8.108	15.054	261	8.160	23.460
262	8.253	23.662	263	8.344	23.863	264	8.435	24.061
265	8.526	24.258	266	8.615	24.454	267	8.705	24.648
268	8.793	24.840	269	8.881	25.031	270	8.969	25.220
271	9.055	25.408	272	9.142	25.594	273	9.227	25.778
274	9.313	25.961	275	9.397	26.142	276	9.481	26.322
277	9.564	26.500	278	9.647	26.676	279	9.729	26.851
280	9.811	27.024	281	9.892	27.196	282	9.972	27.366
283	10.052	27.534	284	10.131	27.701	285	10.210	27.866
286	10.490	28.442	287	10.764	28.651	288	11.233	29.261
289	11.694	29.861	290	12.147	30.450	291	12.593	31.027
292	13.031	31.594	293	13.462	32.150	294	13.884	32.696
295	14.300	33.230	296	8.810	15.728	297	8.892	16.450
298	8.955	17.171	299	8.994	17.892	300	9.004	18.615
301	8.979	19.340	302	8.914	20.070	303	8.804	20.804
304	8.643	21.546	305	8.426	22.296	306	8.507	22.522
307	8.588	22.746	308	8.668	22.968	309	6.911	11.565
310	7.641	12.570	311	8.189	13.603	312	8.572	14.658
313	8.747	23.189	314	8.826	23.407	315	8.905	23.624
316	8.983	23.838	317	9.061	24.051	318	9.138	24.262
319	9.214	24.471	320	9.291	24.678	321	9.366	24.883
322	9.442	25.086	323	9.516	25.288	324	9.591	25.487
325	9.664	25.685	326	9.738	25.880	327	9.811	26.074
328	9.883	26.266	329	9.955	26.455	330	10.026	26.643
331	10.097	26.830	332	10.168	27.014	333	10.238	27.196
334	10.307	27.376	335	10.376	27.555	336	10.445	27.731
337	10.513	27.906	338	10.980	28.540	339	11.440	29.164
340	11.893	29.777	341	12.337	30.379	342	12.775	30.971
343	13.204	31.551	344	13.626	32.122	345	14.041	32.681
346	14.448	33.230	347	9.290	15.316	348	9.367	16.029
349	9.428	16.740	350	9.468	17.450	351	9.342	18.400
352	9.462	18.870	353	9.407	19.583	354	9.309	20.301
355	9.164	21.024	356	8.965	21.753	357	9.034	21.998
358	9.101	22.241	359	9.169	22.482	360	9.236	22.721
361	7.288	11.235	362	8.056	12.214	363	8.633	13.225
364	9.039	14.261	365	9.303	22.957	366	9.369	23.191
367	9.435	23.423	368	9.501	23.653	369	9.567	23.880

370	9.631	24.106	371	9.696	24.329	372	9.760	24.549
373	9.824	24.768	374	9.888	24.984	375	9.951	25.199
376	10.014	25.411	377	10.076	25.620	378	10.138	25.828
379	10.200	26.033	380	10.257	26.267	381	10.322	26.437
382	10.383	26.636	383	10.443	26.833	384	10.503	27.027
385	10.562	27.219	386	10.622	27.409	387	10.680	27.596
388	10.739	27.782	389	11.197	28.429	390	11.649	29.066
391	12.092	29.692	392	12.528	30.308	393	12.957	30.914
394	13.378	31.508	395	13.792	32.093	396	14.198	32.667
397	14.597	33.230	398	9.774	14.900	399	9.752	15.802
400	9.902	16.308	401	9.941	17.007	402	9.956	17.705
403	9.943	18.402	404	9.896	19.101	405	9.809	19.802
406	9.678	20.506	407	9.497	21.217	408	9.553	21.481
409	9.609	21.742	410	9.664	22.001	411	9.719	22.258
412	9.774	22.512	413	7.663	10.908	414	8.469	11.860
415	9.078	12.847	416	9.507	13.863	417	9.828	22.763
418	9.883	23.012	419	9.937	23.259	420	9.991	23.503
421	10.044	23.744	422	10.098	23.983	423	10.151	24.219
424	10.204	24.453	425	10.256	24.684	426	10.309	24.913
427	10.361	25.139	428	10.412	25.363	429	10.464	25.584
430	10.515	25.803	431	10.566	26.019	432	10.617	26.233
433	10.668	26.444	434	10.718	26.652	435	10.768	26.858
436	10.818	27.062	437	10.867	27.263	438	10.917	27.461
439	10.966	27.657	440	11.415	28.318	441	11.858	28.968
442	12.293	29.608	443	12.720	30.237	444	13.141	30.857
445	13.553	31.465	446	13.959	32.064	447	14.357	32.652
448	14.747	33.230	449	10.262	14.482	450	10.324	15.182
451	10.377	15.876	452	10.414	16.565	453	10.431	17.252
454	10.422	17.936	455	10.381	18.621	456	10.305	19.307
457	10.187	19.995	458	10.022	20.686	459	10.065	20.969
460	10.109	21.249	461	10.153	21.526	462	10.196	21.801
463	10.239	22.072	464	10.282	22.341	465	8.034	10.583
466	8.881	11.506	467	9.522	12.468	468	9.977	13.462
469	10.325	22.606	470	10.368	22.869	471	10.411	23.129
472	10.453	23.387	473	10.495	23.641	474	10.538	23.893
475	10.580	24.141	476	10.622	24.387	477	10.663	24.630
478	10.705	24.870	479	10.747	25.108	480	10.788	25.342
481	10.829	25.574	482	10.870	25.803	483	10.911	26.029
484	10.952	26.252	485	10.993	26.473	486	11.033	26.690
487	11.073	26.905	488	11.114	27.117	489	11.154	27.326
490	11.194	27.532	491	11.634	28.206	492	12.068	28.869
493	12.494	29.523	494	12.913	30.166	495	13.325	30.799
496	13.729	31.422	497	14.126	32.035	498	14.516	32.638
499	14.898	33.230	500	10.753	14.062	501	10.807	14.755
502	10.853	15.442	503	10.887	16.123	504	10.904	16.800
505	10.898	17.473	506	10.864	18.145	507	10.796	18.816
508	10.689	19.488	509	10.539	20.163	510	10.571	20.464
511	10.603	20.762	512	10.635	21.057	513	10.667	21.348
514	10.699	21.637	515	10.731	21.923	516	10.762	22.205
517	8.402	10.261	518	9.291	11.154	519	9.968	12.089
520	10.449	13.061	521	10.794	22.484	522	10.826	22.760
523	10.857	23.033	524	10.889	23.303	525	10.921	23.569
526	10.952	23.833	527	10.984	24.093	528	11.097	24.200
529	11.047	24.604	530	11.078	24.855	531	11.110	25.103
532	11.141	25.347	533	11.173	25.589	534	11.204	25.827
535	11.235	26.062	536	11.267	26.294	537	11.298	26.523
538	11.329	26.749	539	11.360	26.971	540	11.391	27.190
541	11.423	27.407	542	11.855	28.094	543	12.279	28.771
544	12.697	29.438	545	13.107	30.095	546	13.510	30.742
547	13.906	31.379	548	14.295	32.006	549	14.676	32.623
550	15.050	33.230	551	11.248	13.638	552	11.291	14.327
553	11.450	15.273	554	11.361	15.681	555	11.376	16.349
556	11.372	17.012	557	11.342	17.672	558	11.282	18.329
559	11.186	18.987	560	11.049	19.645	561	10.938	20.150
562	11.090	20.280	563	11.111	20.593	564	11.132	20.902
565	11.153	21.207	566	11.173	21.509	567	11.194	21.808
568	11.215	22.103	569	8.767	9.941	570	10.038	11.083
571	10.413	11.710	572	10.923	12.658	573	11.237	22.395
574	11.258	22.683	575	11.279	22.968	576	11.300	23.250
577	11.322	23.527	578	11.343	23.802	579	11.365	24.073
580	11.387	24.340	581	11.408	24.604	582	11.430	24.865
583	11.452	25.122	584	11.474	25.376	585	11.496	25.626
586	11.518	25.873	587	11.540	26.116	588	11.563	26.356
589	11.585	26.593	590	11.607	26.826	591	11.630	27.055
592	11.653	27.281	593	12.076	27.981	594	12.492	28.672
595	12.900	29.353	596	13.302	30.023	597	13.697	30.684
598	14.108	31.388	599	14.464	31.977	600	14.837	32.608
601	15.203	33.230	602	11.746	13.211	603	11.778	13.897
604	11.809	14.573	605	11.834	15.240	606	11.847	15.899
607	11.843	16.553	608	11.817	17.202	609	11.764	17.847
610	11.677	18.491	611	11.553	19.134	612	11.562	19.471
613	11.571	19.805	614	11.581	20.134	615	11.591	20.460

616	11.601	20.783	617	11.611	21.101	618	11.621	21.416
619	11.632	21.727	620	11.643	22.034	621	9.129	9.623
622	10.108	10.452	623	10.858	11.331	624	11.399	12.253
625	11.654	22.338	626	11.665	22.637	627	11.676	22.933
628	11.688	23.225	629	11.700	23.514	630	11.712	23.798
631	11.724	24.079	632	11.736	24.356	633	11.748	24.629
634	11.761	24.899	635	11.774	25.165	636	11.787	25.427
637	11.800	25.685	638	11.814	25.939	639	11.827	26.190
640	11.841	26.437	641	11.855	26.680	642	11.869	26.919
643	11.884	27.155	644	12.298	27.869	645	12.705	28.573
646	13.105	29.267	647	13.498	29.952	648	13.884	30.627
649	14.263	31.292	650	14.635	31.948	651	14.999	32.594
652	15.357	33.230	653	12.249	12.782	654	12.268	13.465
655	12.290	14.137	656	12.308	14.798	657	12.317	15.451
658	12.312	16.096	659	12.289	16.735	660	12.240	17.369
661	12.225	18.215	662	12.049	18.629	663	12.047	18.984
664	12.046	19.335	665	12.045	19.682	666	12.044	20.024
667	12.043	20.363	668	12.043	20.698	669	12.043	21.029
670	12.044	21.355	671	12.045	21.677	672	12.046	21.996
673	9.488	9.308	674	10.514	10.103	675	11.304	10.952
676	11.876	11.847	677	12.047	22.310	678	12.049	22.620
679	12.051	22.926	680	12.053	23.228	681	12.055	23.526
682	12.058	23.820	683	12.061	24.110	684	12.065	24.396
685	12.069	24.678	686	12.073	24.955	687	12.077	25.229
688	12.082	25.498	689	12.087	25.763	690	12.092	26.025
691	12.097	26.282	692	12.103	26.535	693	12.109	26.784
694	12.116	27.029	695	12.521	27.756	696	12.919	28.473
697	13.311	29.181	698	13.695	29.880	699	14.072	30.569
700	14.443	31.248	701	14.806	31.918	702	15.162	32.579
703	15.512	33.230	704	12.754	12.350	705	12.760	13.031
706	12.771	13.700	707	12.781	14.357	708	12.786	15.004
709	12.779	15.642	710	12.757	16.272	711	12.712	16.896
712	12.641	17.515	713	12.538	18.130	714	12.525	18.503
715	12.514	18.871	716	12.413	19.450	717	12.491	19.594
718	12.480	19.949	719	12.470	20.299	720	12.460	20.646
721	12.451	20.988	722	12.442	21.325	723	12.433	21.658
724	12.425	21.987	725	9.843	8.995	726	10.918	9.755
727	11.750	10.572	728	12.356	11.439	729	12.417	22.311
730	12.410	22.631	731	12.403	22.946	732	12.397	23.257
733	12.390	23.564	734	12.385	23.866	735	12.379	24.164
736	12.374	24.458	737	12.370	24.747	738	12.366	25.032
739	12.362	25.312	740	12.359	25.588	741	12.356	25.860
742	12.354	26.127	743	12.352	26.390	744	12.350	26.648
745	12.349	26.902	746	12.745	27.643	747	13.135	28.374
748	13.517	29.095	749	13.893	29.808	750	14.261	30.511
751	14.623	31.205	752	14.978	31.889	753	15.326	32.564
754	15.668	33.230	755	13.264	11.915	756	13.255	12.596
757	13.254	13.263	758	13.255	13.916	759	13.140	14.600
760	13.244	15.189	761	13.221	15.812	762	13.180	16.426
763	13.114	17.035	764	13.020	17.638	765	12.997	18.027
766	12.975	18.413	767	12.953	18.793	768	12.932	19.169
769	12.912	19.540	770	12.892	19.906	771	12.872	20.267
772	12.853	20.624	773	12.835	20.977	774	12.817	21.324
775	12.799	21.667	776	12.782	22.005	777	10.195	8.685
778	11.321	9.408	779	12.196	10.192	780	12.838	11.030
781	12.766	22.338	782	12.750	22.667	783	12.735	22.991
784	12.720	23.310	785	12.706	23.625	786	12.692	23.935
787	12.679	24.240	788	12.666	24.541	789	12.654	24.836
790	12.642	25.127	791	12.631	25.414	792	12.620	25.695
793	12.610	25.972	794	12.601	26.245	795	12.592	26.512
796	12.583	26.775	797	12.970	27.529	798	13.351	28.274
799	13.725	29.009	800	14.092	29.736	801	14.452	30.453
802	14.805	31.161	803	15.152	31.860	804	15.491	32.549
805	15.824	33.230	806	13.777	11.477	807	13.835	12.220
808	13.738	12.824	809	13.729	13.475	810	13.720	14.113
811	13.706	14.739	812	13.682	15.355	813	13.642	15.961
814	13.581	16.560	815	13.494	17.152	816	13.462	17.558
817	13.430	17.960	818	13.398	18.357	819	13.367	18.749
820	13.337	19.135	821	13.308	19.517	822	13.279	19.894
823	13.251	20.266	824	13.223	20.632	825	13.196	20.994
826	13.170	21.351	827	13.144	21.702	828	13.119	22.049
829	10.544	8.377	830	11.723	9.063	831	12.643	9.812
832	13.322	10.619	833	13.094	22.391	834	13.071	22.727
835	12.972	23.157	836	13.025	23.386	837	13.003	23.707
838	12.982	24.024	839	12.961	24.336	840	12.941	24.642
841	12.922	24.944	842	12.903	25.240	843	12.885	25.532
844	12.867	25.818	845	12.850	26.100	846	12.834	26.376
847	12.818	26.648	848	13.197	27.415	849	13.568	28.174
850	13.933	28.923	851	14.291	29.663	852	14.643	30.395
853	14.988	31.117	854	15.326	31.830	855	15.657	32.535
856	15.982	33.230	857	14.294	11.036	858	14.251	11.719
859	14.223	12.385	860	14.202	13.035	861	14.185	13.670

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994 13.755 24.399 995 13.715 24.725 996 13.676 25.045
997 13.638 25.359 998 13.601 25.666 999 13.565 25.968
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1003 14.565 28.662 1004 14.897 29.445 1005 15.222 30.219
1006 15.541 30.984 1007 15.854 31.741 1008 16.160 32.490
1009 16.460 33.230 1010 11.908 7.169 1011 13.314 7.690
1012 15.866 9.697 1013 15.765 10.391 1014 15.686 11.063
1015 15.624 11.715 1016 15.575 12.347 1017 15.532 12.962
1018 15.490 13.560 1019 15.445 14.144 1020 15.391 14.713
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1024 15.183 16.955 1025 15.049 17.123 1026 14.983 17.570
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1078 15.380 17.192 1079 15.308 17.647 1080 15.236 18.096
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1087 14.770 21.054 1088 14.708 21.451 1089 14.647 21.841
1090 14.587 22.224 1091 14.529 22.601 1092 15.769 8.542
1093 14.472 22.971 1094 14.416 23.334 1095 14.361 23.691
1096 14.307 24.042 1097 14.255 24.386 1098 14.204 24.723
1099 14.153 25.054 1100 14.105 25.378 1101 14.057 25.696
1102 14.010 26.007 1103 14.344 26.842 1104 14.670 27.669
1105 14.991 28.488 1106 15.305 29.299 1107 15.613 30.101

1108	15.915	30.896	1109	16.211	31.682	1110	16.500	32.460
1111	16.783	33.230	1112	12.570	6.580	1113	14.101	7.011
1114	15.326	7.527	1115	16.264	8.123	1116	12.897	6.289
1117	13.220	6.000	1118	16.933	8.789	1119	16.786	9.496
1120	16.667	10.177	1121	16.572	10.835	1122	16.495	11.471
1123	16.431	12.087	1124	16.373	12.682	1125	16.318	13.260
1126	16.260	13.822	1127	16.193	14.368	1128	16.107	14.871
1129	16.021	15.368	1130	15.937	15.859	1131	15.854	16.342
1132	15.772	16.818	1133	15.692	17.288	1134	15.613	17.750
1135	15.535	18.206	1136	15.458	18.655	1137	15.383	19.097
1138	15.309	19.532	1139	15.237	19.960	1140	15.166	20.382
1141	15.096	20.796	1142	15.027	21.204	1143	14.959	21.605
1144	14.893	21.998	1145	14.829	22.385	1146	14.765	22.766
1147	14.703	23.139	1148	14.642	23.505	1149	14.582	23.865
1150	14.524	24.217	1151	14.467	24.563	1152	14.411	24.902
1153	14.357	25.234	1154	14.304	25.559	1155	14.252	25.878
1156	14.576	26.726	1157	14.894	27.567	1158	15.206	28.400
1159	15.511	29.225	1160	15.811	30.042	1161	16.104	30.851
1162	16.391	31.652	1163	16.671	32.445	1164	16.946	33.230
1165	14.492	6.673	1166	15.774	7.146	1167	16.762	7.701
1168	17.471	8.332	1169	14.882	6.336	1170	15.270	6.000
1171	17.300	9.046	1172	17.160	9.733	1173	17.046	10.396
1174	16.954	11.035	1175	16.820	11.773	1176	16.810	12.248
1177	16.748	12.825	1178	16.686	13.384	1179	16.618	13.926
1180	16.670	14.417	1181	16.430	14.957	1182	16.338	15.462
1183	16.247	15.959	1184	16.158	16.450	1185	16.070	16.933
1186	15.984	17.409	1187	15.899	17.878	1188	15.815	18.340
1189	15.733	18.794	1190	15.652	19.242	1191	15.573	19.682
1192	15.495	20.115	1193	15.418	20.541	1194	15.343	20.959
1195	15.270	21.371	1196	15.197	21.775	1197	15.126	22.172
1198	15.057	22.562	1199	14.989	22.945	1200	14.922	23.320
1201	14.857	23.689	1202	14.793	24.050	1203	14.730	24.404
1204	14.669	24.751	1205	14.610	25.090	1206	14.551	25.423
1207	14.494	25.748	1208	14.809	26.611	1209	15.118	27.465
1210	15.421	28.312	1211	15.718	29.151	1212	16.009	29.983
1213	16.293	30.806	1214	16.571	31.622	1215	16.844	32.430
1216	17.110	33.230	1217	16.223	6.764	1218	17.261	7.278
1219	18.014	7.871	1220	17.817	8.594	1221	16.671	6.382
1222	17.120	6.000	1223	17.654	9.288	1224	17.521	9.957
1225	17.411	10.600	1226	17.320	11.220	1227	17.242	11.818
1228	17.173	12.394	1229	17.106	12.951	1230	17.036	13.490
1231	16.934	14.024	1232	16.833	14.551	1233	16.733	15.070
1234	16.635	15.582	1235	16.538	16.087	1236	16.443	16.583
1237	16.350	17.073	1238	16.258	17.555	1239	16.168	18.029
1240	16.079	18.496	1241	15.991	18.955	1242	15.757	19.500
1243	15.821	19.852	1244	15.738	20.288	1245	15.657	20.718
1246	15.577	21.140	1247	15.499	21.554	1248	15.422	21.961
1249	15.347	22.361	1250	15.273	22.752	1251	15.201	23.137
1252	15.130	23.514	1253	15.061	23.883	1254	14.993	24.245
1255	14.927	24.600	1256	14.863	24.947	1257	14.800	25.286
1258	14.738	25.618	1259	15.044	26.494	1260	15.344	27.363
1261	15.638	28.224	1262	15.926	29.078	1263	16.208	29.923
1264	16.483	30.761	1265	16.753	31.592	1266	17.017	32.415
1267	17.274	33.230	1268	17.762	6.854	1269	18.560	7.408
1270	18.336	8.140	1271	18.149	8.843	1272	18.265	6.428
1273	18.770	6.000	1274	17.995	9.518	1275	17.867	10.167
1276	17.761	10.790	1277	17.672	11.390	1278	17.593	11.968
1279	17.520	12.524	1280	17.447	13.061	1281	17.337	13.610
1282	17.229	14.151	1283	17.122	14.685	1284	17.017	15.211
1285	16.913	15.729	1286	16.811	16.239	1287	16.711	16.741
1288	16.612	17.236	1289	16.515	17.722	1290	16.420	18.201
1291	16.326	18.672	1292	16.234	19.136	1293	16.144	19.591
1294	16.055	20.039	1295	15.968	20.479	1296	15.882	20.911
1297	15.798	21.335	1298	15.716	21.752	1299	15.635	22.161
1300	15.556	22.562	1301	15.479	22.955	1302	15.403	23.340
1303	15.329	23.718	1304	15.256	24.087	1305	15.186	24.449
1306	15.116	24.803	1307	15.049	25.149	1308	14.983	25.488
1309	15.280	26.378	1310	15.570	27.261	1311	15.855	28.136
1312	16.134	29.003	1313	16.407	29.864	1314	16.675	30.716
1315	16.936	31.562	1316	17.191	32.400	1317	17.440	33.230
1318	19.080	6.648	1319	18.858	7.684	1320	18.646	8.396
1321	18.469	9.079	1322	19.663	6.472	1323	20.220	6.000
1324	18.323	9.734	1325	18.200	10.363	1326	18.097	10.966
1327	18.008	11.545	1328	17.928	12.102	1329	17.850	12.638
1330	17.733	13.201	1331	17.618	13.757	1332	17.504	14.305
1333	17.392	14.844	1334	17.282	15.376	1335	17.174	15.899
1336	17.067	16.414	1337	16.962	16.921	1338	16.859	17.420
1339	16.757	17.911	1340	16.692	18.190	1341	16.560	18.868
1342	16.463	19.334	1343	16.369	19.793	1344	16.276	20.243
1345	16.185	20.685	1346	16.096	21.119	1347	16.008	21.545
1348	15.922	21.963	1349	15.838	22.372	1350	15.756	22.774
1351	15.675	23.167	1352	15.597	23.553	1353	15.519	23.930

1354 15.444 24.299 1355 15.370 24.660 1356 15.299 25.013
1357 15.228 25.357 1358 15.516 26.261 1359 15.798 27.158
1360 16.074 28.047 1361 16.344 28.929 1362 16.608 29.804
1363 16.867 30.671 1364 17.119 31.532 1365 17.366 32.384
1366 17.607 33.230 1367 19.382 7.227 1368 19.144 7.949
1369 18.944 8.641 1370 18.778 9.307 1371 19.908 6.767
1372 20.437 6.306 1373 20.782 6.000 1374 18.637 9.937
1375 18.519 10.545 1376 18.419 11.127 1377 18.330 11.685
1378 18.247 12.221 1379 18.123 12.799 1380 18.001 13.369
1381 17.881 13.930 1382 17.762 14.483 1383 17.646 15.028
1384 17.531 15.564 1385 17.418 16.092 1386 17.307 16.611
1387 17.198 17.122 1388 17.090 17.624 1389 16.985 18.118
1390 16.881 18.604 1391 16.780 19.081 1392 16.680 19.549
1393 16.582 20.010 1394 16.485 20.462 1395 16.391 20.905
1396 16.255 21.220 1397 16.208 21.767 1398 16.119 22.185
1399 16.032 22.594 1400 15.947 22.996 1401 15.864 23.389
1402 15.782 23.773 1403 15.703 24.149 1404 15.625 24.517
1405 15.549 24.876 1406 15.475 25.227 1407 15.754 26.144
1408 16.027 27.055 1409 16.294 27.958 1410 16.555 28.855
1411 16.810 29.744 1412 17.060 30.626 1413 17.304 31.501
1414 17.542 32.369 1415 17.774 33.230 1416 19.643 7.501
1417 19.418 8.202 1418 19.230 8.873 1419 19.071 9.514
1420 20.143 7.052 1421 20.645 6.602 1422 20.989 6.309
1423 21.353 6.000 1424 18.938 10.127 1425 18.825 10.713
1426 18.726 11.274 1427 18.636 11.810 1428 18.506 12.403
1429 18.513 13.180 1430 18.251 13.561 1431 18.126 14.128
1432 18.003 14.685 1433 17.882 15.234 1434 17.764 15.774
1435 17.647 16.305 1436 17.532 16.827 1437 17.419 17.341
1438 17.308 17.846 1439 17.199 18.343 1440 17.092 18.830
1441 16.987 19.309 1442 16.884 19.779 1443 16.783 20.240
1444 16.684 20.693 1445 16.587 21.137 1446 16.492 21.572
1447 16.398 21.999 1448 16.307 22.416 1449 16.218 22.825
1450 16.130 23.225 1451 16.045 23.617 1452 15.961 24.000
1453 15.880 24.374 1454 15.800 24.739 1455 15.723 25.095
1456 15.992 26.027 1457 16.256 26.952 1458 16.514 27.869
1459 16.766 28.780 1460 17.013 29.684 1461 17.254 30.581
1462 17.489 31.471 1463 17.719 32.354 1464 17.943 33.230
1465 19.893 7.764 1466 20.368 7.327 1467 19.681 8.444
1468 19.503 9.093 1469 19.353 9.713 1470 20.842 6.889
1471 21.187 6.608 1472 21.549 6.312 1473 21.934 6.000
1474 19.226 10.304 1475 19.116 10.868 1476 19.018 11.406
1477 18.882 12.013 1478 18.747 12.610 1479 18.614 13.198
1480 18.484 13.777 1481 18.355 14.347 1482 18.229 14.909
1483 18.104 15.461 1484 17.982 16.004 1485 17.862 16.538
1486 17.744 17.062 1487 17.628 17.578 1488 17.514 18.085
1489 17.402 18.583 1490 17.292 19.072 1491 17.184 19.551
1492 17.078 20.022 1493 16.975 20.483 1494 16.873 20.936
1495 16.774 21.380 1496 16.676 21.814 1497 16.581 22.239
1498 16.488 22.656 1499 16.397 23.063 1500 16.307 23.461
1501 16.220 23.850 1502 16.135 24.231 1503 16.053 24.602
1504 15.972 24.964 1505 16.232 25.909 1506 16.487 26.848
1507 16.736 27.780 1508 16.979 28.706 1509 17.217 29.624
1510 17.449 30.536 1511 17.676 31.441 1512 17.897 32.339
1513 18.112 33.230 1514 20.132 8.017 1515 20.581 7.591
1516 21.030 7.165 1517 19.933 8.675 1518 19.765 9.301
1519 19.622 9.898 1520 21.376 6.896 1521 21.737 6.614
1522 22.119 6.316 1523 22.525 6.000 1524 19.500 10.467
1525 19.394 11.008 1526 19.251 11.628 1527 19.110 12.239
1528 18.972 12.840 1529 18.836 13.432 1530 18.702 14.015
1531 18.570 14.588 1532 18.440 15.152 1533 18.313 15.707
1534 18.187 16.252 1535 18.064 16.788 1536 17.943 17.314
1537 17.825 17.831 1538 17.708 18.339 1539 17.594 18.837
1540 17.481 19.326 1541 17.371 19.806 1542 17.264 20.276
1543 17.158 20.737 1544 17.054 21.189 1545 16.953 21.631
1546 16.854 22.064 1547 16.757 22.487 1548 16.662 22.902
1549 16.570 23.306 1550 16.480 23.702 1551 16.391 24.088
1552 16.305 24.465 1553 16.222 24.832 1554 16.473 25.792
1555 16.718 26.745 1556 16.958 27.691 1557 17.193 28.631
1558 17.422 29.564 1559 17.645 30.490 1560 17.863 31.410
1561 18.076 32.323 1562 18.282 33.230 1563 20.360 8.258
1564 20.785 7.844 1565 21.208 7.432 1566 21.555 7.173
1567 20.173 8.893 1568 20.014 9.497 1569 19.879 10.071
1570 21.917 6.903 1571 22.297 6.619 1572 22.698 6.319
1573 23.126 6.000 1574 20.251 9.681 1575 19.762 10.617
1576 19.613 11.250 1577 19.467 11.874 1578 19.323 12.488
1579 19.182 13.093 1580 19.042 13.688 1581 18.905 14.273
1582 18.771 14.848 1583 18.638 15.414 1584 18.508 15.970
1585 18.380 16.517 1586 18.255 17.053 1587 18.132 17.581
1588 18.011 18.098 1589 17.892 18.606 1590 17.776 19.104
1591 17.662 19.592 1592 17.550 20.071 1593 17.441 20.540
1594 17.334 21.000 1595 17.229 21.450 1596 17.126 21.890
1597 17.026 22.320 1598 16.928 22.741 1599 16.832 23.152

1600	16.739	23.553	1601	16.648	23.945	1602	16.559	24.327
1603	16.473	24.700	1604	16.714	25.673	1605	16.951	26.641
1606	17.182	27.601	1607	17.407	28.556	1608	17.628	29.503
1609	17.842	30.445	1610	18.051	31.380	1611	18.255	32.308
1612	18.454	33.230	1613	20.577	8.489	1614	20.978	8.087
1615	21.376	7.689	1616	21.725	7.440	1617	22.088	7.181
1618	20.401	9.100	1619	20.122	10.232	1620	22.466	6.910
1621	22.864	6.625	1622	23.286	6.322	1623	23.736	6.000
1624	20.618	9.296	1625	20.476	9.853	1626	20.823	9.480
1627	19.969	10.878	1628	19.817	11.515	1629	19.668	12.142
1630	19.522	12.759	1631	19.377	13.365	1632	19.236	13.962
1633	19.096	14.549	1634	18.959	15.126	1635	18.825	15.693
1636	18.692	16.250	1637	18.563	16.796	1638	18.435	17.333
1639	18.310	17.860	1640	18.188	18.377	1641	18.068	18.884
1642	18.080	19.295	1643	17.835	19.868	1644	17.722	20.345
1645	17.611	20.813	1646	17.503	21.270	1647	17.397	21.717
1648	17.294	22.154	1649	17.193	22.581	1650	17.094	22.998
1651	16.998	23.406	1652	16.905	23.803	1653	16.813	24.190
1654	16.724	24.567	1655	16.957	25.555	1656	17.185	26.536
1657	17.406	27.511	1658	17.623	28.480	1659	17.834	29.443
1660	18.040	30.399	1661	18.241	31.349	1662	18.436	32.293
1663	18.626	33.230	1664	20.783	8.708	1665	21.161	8.320
1666	21.534	7.936	1667	21.887	7.696	1668	22.250	7.448
1669	22.627	7.189	1670	20.978	8.916	1671	20.317	10.512
1672	23.023	6.917	1673	23.440	6.630	1674	23.883	6.325
1675	24.356	6.000	1676	21.162	9.114	1677	20.659	10.152
1678	20.994	9.799	1679	21.322	9.451	1680	20.161	11.162
1681	20.007	11.801	1682	19.856	12.430	1683	19.707	13.048
1684	19.560	13.656	1685	19.417	14.254	1686	19.275	14.842
1687	19.136	15.419	1688	19.000	15.986	1689	18.866	16.543
1690	18.735	17.090	1691	18.606	17.626	1692	18.480	18.152
1693	18.357	18.668	1694	18.235	19.173	1695	18.117	19.668
1696	18.001	20.153	1697	17.887	20.627	1698	17.776	21.091
1699	17.667	21.545	1700	17.561	21.989	1701	17.458	22.422
1702	17.357	22.845	1703	17.258	23.258	1704	17.162	23.660
1705	17.068	24.053	1706	16.978	24.435	1707	17.201	25.436
1708	17.419	26.432	1709	17.632	27.421	1710	17.840	28.405
1711	18.042	29.382	1712	18.239	30.353	1713	18.431	31.318
1714	18.617	32.277	1715	18.799	33.230	1716	21.333	8.542
1717	21.682	8.173	1718	22.039	7.941	1719	22.404	7.703
1720	22.781	7.456	1721	23.174	7.197	1722	21.495	8.754
1723	20.498	10.814	1724	23.588	6.924	1725	24.025	6.636
1726	24.490	6.328	1727	24.986	6.000	1728	20.829	10.473
1729	21.153	10.137	1730	21.644	9.109	1731	21.470	9.807
1732	21.890	8.526	1733	21.725	9.218	1734	21.958	8.648
1735	20.340	11.466	1736	20.184	12.106	1737	20.030	12.736
1738	19.880	13.356	1739	19.732	13.964	1740	19.587	14.563
1741	19.444	15.150	1742	19.304	15.727	1743	19.188	16.142
1744	19.032	16.850	1745	18.899	17.395	1746	18.770	17.929
1747	18.643	18.453	1748	18.518	18.967	1749	18.397	19.470
1750	18.278	19.962	1751	18.161	20.444	1752	18.047	20.915
1753	17.936	21.375	1754	17.828	21.825	1755	17.722	22.264
1756	17.619	22.693	1757	17.518	23.111	1758	17.420	23.518
1759	17.324	23.915	1760	17.232	24.301	1761	17.327	25.140
1762	17.655	26.327	1763	17.859	27.331	1764	18.057	28.329
1765	18.251	29.321	1766	18.439	30.307	1767	18.622	31.287
1768	18.800	32.262	1769	18.973	33.230	1770	21.820	8.400
1771	22.181	8.176	1772	22.549	7.947	1773	22.927	7.710
1774	23.319	7.464	1775	23.729	7.205	1776	20.666	11.136
1777	24.161	6.932	1778	24.618	6.641	1779	25.105	6.331
1780	25.626	6.000	1781	20.986	10.812	1782	21.300	10.493
1783	21.563	9.899	1784	21.805	9.322	1785	22.026	8.767
1786	26.276	6.000	1787	26.935	6.000	1788	27.604	6.000
1789	28.283	6.000	1790	28.972	6.000	1791	29.670	6.000
1792	21.820	8.400	1793	20.506	11.788	1794	20.349	12.429
1795	20.194	13.060	1796	20.042	13.679	1797	19.893	14.288
1798	19.747	14.885	1799	19.603	15.472	1800	19.462	16.048
1801	19.324	16.613	1802	19.189	17.167	1803	19.056	17.710
1804	18.926	18.242	1805	18.799	18.763	1806	18.675	19.274
1807	18.553	19.773	1808	18.434	20.262	1809	18.318	20.739
1810	18.204	21.206	1811	18.063	21.675	1812	17.986	22.107
1813	17.880	22.541	1814	17.778	22.964	1815	17.678	23.376
1816	17.581	23.778	1817	17.487	24.168	1818	17.692	25.198
1819	17.891	26.222	1820	18.086	27.241	1821	18.276	28.253
1822	18.460	29.260	1823	18.640	30.261	1824	18.814	31.257
1825	18.983	32.246	1826	19.148	33.230	1827	22.315	8.400
1828	22.685	8.179	1829	23.065	7.952	1830	23.456	7.717
1831	23.863	7.472	1832	24.290	7.213	1833	20.822	11.475
1834	24.741	6.939	1835	25.220	6.647	1836	25.730	6.335
1837	21.132	11.168	1838	21.404	10.569	1839	21.655	9.987
1840	21.920	9.232	1841	22.091	8.882	1842	26.364	6.338
1843	27.007	6.341	1844	27.659	6.344	1845	28.320	6.347

1846	28.990	6.350	1847	29.670	6.354	1848	22.037	8.787
1849	20.661	12.128	1850	20.503	12.769	1851	20.347	13.399
1852	20.195	14.017	1853	20.045	14.625	1854	19.898	15.221
1855	19.754	15.806	1856	19.613	16.380	1857	19.475	16.942
1858	19.340	17.493	1859	19.167	18.202	1860	19.077	18.563
1861	18.950	19.080	1862	18.826	19.587	1863	18.705	20.082
1864	18.587	20.566	1865	18.471	21.039	1866	18.359	21.500
1867	18.249	21.951	1868	18.142	22.390	1869	18.038	22.818
1870	17.937	23.234	1871	17.838	23.640	1872	17.743	24.034
1873	17.939	25.078	1874	18.129	26.117	1875	18.315	27.150
1876	18.495	28.177	1877	18.671	29.199	1878	18.842	30.215
1879	19.007	31.226	1880	19.168	32.231	1881	19.323	33.230
1882	22.568	9.070	1883	22.814	8.400	1884	23.194	8.182
1885	23.586	7.958	1886	23.991	7.724	1887	24.414	7.480
1888	24.859	7.221	1889	20.968	11.831	1890	25.330	6.946
1891	25.830	6.652	1892	21.248	11.229	1893	21.507	10.642
1894	21.746	10.072	1895	21.992	9.345	1896	22.156	8.994
1897	26.449	6.658	1898	27.076	6.663	1899	27.712	6.669
1900	28.356	6.674	1901	29.009	6.680	1902	29.670	6.685
1903	22.240	9.137	1904	20.806	12.482	1905	20.647	13.123
1906	20.492	13.751	1907	20.339	14.368	1908	20.189	14.973
1909	20.043	15.567	1910	19.899	16.150	1911	19.758	16.721
1912	19.620	17.280	1913	19.485	17.828	1914	19.353	18.364
1915	19.224	18.889	1916	19.098	19.402	1917	18.975	19.904
1918	18.855	20.394	1919	18.737	20.873	1920	18.623	21.340
1921	18.512	21.795	1922	18.404	22.239	1923	18.298	22.672
1924	18.196	23.093	1925	18.096	23.502	1926	18.000	23.900
1927	18.186	24.958	1928	18.368	26.011	1929	18.544	27.059
1930	18.716	28.101	1931	18.883	29.138	1932	19.198	30.540
1933	19.201	31.195	1934	19.353	32.215	1935	19.500	33.230
1936	22.713	9.305	1937	23.020	8.787	1938	23.316	8.400
1939	23.708	8.185	1940	24.112	7.963	1941	24.532	7.732
1942	24.971	7.487	1943	25.435	7.229	1944	21.095	11.878
1945	25.926	6.953	1946	21.363	11.287	1947	21.609	10.711
1948	21.835	10.153	1949	22.064	9.459	1950	22.219	9.102
1951	26.530	6.960	1952	27.143	6.967	1953	27.763	6.974
1954	28.391	6.981	1955	29.026	6.988	1956	29.670	6.996
1957	22.430	9.450	1958	19.680	33.300	1959	19.860	33.371
1960	20.944	12.517	1961	20.797	13.145	1962	20.652	13.763
1963	20.510	14.370	1964	20.371	14.966	1965	20.235	15.552
1966	20.102	16.127	1967	19.971	16.692	1968	19.844	17.247
1969	19.719	17.790	1970	19.597	18.323	1971	19.479	18.846
1972	19.362	19.358	1973	19.249	19.859	1974	19.139	20.350
1975	19.032	20.830	1976	18.927	21.300	1977	18.825	21.759
1978	18.726	22.208	1979	18.853	22.728	1980	18.537	23.074
1981	18.447	23.491	1982	18.360	23.897	1983	18.526	24.959
1984	18.687	26.016	1985	18.843	27.070	1986	18.995	28.119
1987	19.141	29.163	1988	19.283	30.204	1989	19.421	31.240
1990	19.553	32.273	1991	22.858	9.538	1992	23.214	9.137
1993	23.635	8.910	1994	23.823	8.400	1995	24.226	8.189
1996	24.644	7.969	1997	25.079	7.739	1998	25.536	7.495
1999	26.018	7.237	2000	21.221	11.922	2001	21.476	11.342
2002	21.710	10.777	2003	21.923	10.231	2004	22.137	9.573
2005	22.281	9.206	2006	26.609	7.244	2007	27.206	7.252
2008	27.811	7.260	2009	28.424	7.268	2010	29.043	7.276
2011	29.670	7.284	2012	22.607	9.727	2013	19.752	32.330
2014	20.038	33.441	2015	19.952	32.958	2016	20.215	33.510
2017	21.081	12.548	2018	20.945	13.165	2019	20.811	13.772
2020	20.680	14.369	2021	20.552	14.957	2022	20.427	15.535
2023	20.304	16.103	2024	20.184	16.662	2025	20.067	17.211
2026	19.953	17.751	2027	19.841	18.281	2028	19.733	18.802
2029	19.627	19.313	2030	19.523	19.814	2031	19.423	20.306
2032	19.325	20.788	2033	19.230	21.260	2034	19.138	21.723
2035	19.049	22.177	2036	18.962	22.620	2037	18.878	23.055
2038	18.797	23.479	2039	18.719	23.894	2040	18.865	24.959
2041	19.005	26.021	2042	19.142	27.080	2043	19.273	28.136
2044	19.400	29.189	2045	19.522	30.239	2046	19.639	31.286
2047	23.089	9.727	2048	23.398	9.450	2049	23.704	9.137
2050	24.014	8.787	2051	24.334	8.400	2052	24.750	8.192
2053	25.181	7.975	2054	25.632	7.746	2055	26.106	7.503
2056	21.345	11.964	2057	21.589	11.394	2058	21.810	10.840
2059	22.010	10.306	2060	22.197	9.671	2061	22.342	9.306
2062	26.684	7.511	2063	27.268	7.519	2064	27.858	7.527
2065	28.456	7.535	2066	29.060	7.543	2067	29.670	7.551
2068	22.770	9.967	2069	19.857	31.331	2070	20.147	32.444
2071	20.074	31.377	2072	20.391	33.580	2073	20.330	33.123
2074	20.566	33.649	2075	21.217	12.577	2076	21.092	13.182
2077	20.970	13.778	2078	20.850	14.366	2079	20.732	14.945
2080	20.618	15.515	2081	20.506	16.077	2082	20.396	16.630
2083	20.290	17.174	2084	20.186	17.710	2085	20.085	18.237
2086	19.986	18.756	2087	19.890	19.266	2088	19.797	19.767
2089	19.707	20.260	2090	19.619	20.744	2091	19.585	21.310

2092 19.451 21.687 2093 19.371 22.145 2094 19.294 22.594
2095 19.220 23.035 2096 19.148 23.468 2097 19.079 23.892
2098 19.204 24.960 2099 19.324 26.026 2100 19.440 27.091
2101 19.551 28.154 2102 19.657 29.215 2103 19.759 30.274
2104 23.251 9.967 2105 23.569 9.727 2106 23.881 9.450
2107 24.194 9.137 2108 24.514 8.787 2109 24.850 8.400
2110 25.277 8.195 2111 25.723 7.980 2112 26.191 7.753
2113 21.469 12.002 2114 21.700 11.442 2115 21.909 10.900
2116 22.095 10.377 2117 22.258 9.770 2118 22.401 9.403
2119 26.756 7.760 2120 27.326 7.767 2121 27.903 7.774
2122 28.486 7.781 2123 29.075 7.788 2124 29.670 7.796
2125 22.920 10.170 2126 19.996 30.309 2127 20.290 31.422
2128 20.232 30.344 2129 20.538 32.557 2130 20.505 31.467
2131 20.740 33.718 2132 20.732 32.614 2133 22.459 9.496
2134 22.874 10.110 2135 22.515 9.586 2136 22.827 10.046
2137 22.571 9.671 2138 22.778 9.978 2139 22.624 9.754
2140 22.728 9.907 2141 22.677 9.832 2142 21.353 12.603
2143 21.238 13.197 2144 21.127 13.782 2145 21.018 14.360
2146 20.912 14.931 2147 20.808 15.493 2148 20.707 16.049
2149 20.608 16.596 2150 20.512 17.136 2151 20.419 17.668
2152 20.328 18.192 2153 20.239 18.709 2154 20.154 19.218
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2158 19.837 21.178 2159 19.764 21.649 2160 19.694 22.113
2161 19.626 22.568 2162 19.561 23.016 2163 19.499 23.457
2164 19.439 23.889 2165 19.543 24.961 2166 19.642 26.032
2167 19.737 27.102 2168 19.828 28.172 2169 19.914 29.241
2170 23.729 9.967 2171 23.401 10.170 2172 24.048 9.727
2173 24.365 9.450 2174 24.686 9.137 2175 25.018 8.787
2176 25.369 8.400 2177 25.880 8.285 2178 26.271 7.986
2179 21.592 12.038 2180 21.810 11.488 2181 22.006 10.956
2182 22.180 10.445 2183 22.318 9.868 2184 26.824 7.991
2185 27.383 7.997 2186 27.946 8.002 2187 28.516 8.008
2188 29.090 8.013 2189 29.670 8.019 2190 .827 2270 22.505 10.684 2271 22.661 10.782
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2419 21.161 19.520 2420 21.100 19.802 2421 21.083 20.515
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2500 27.743 9.450 2501 28.225 9.450 2502 28.707 9.450
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2686 23.239 30.791 2687 23.226 32.042 2688 23.522 34.210
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2695 22.486 17.216 2696 22.491 17.722 2697 22.497 18.229
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2767 27.991 10.916 2768 28.417 10.911 2769 28.839 10.906
2770 29.670 10.896 2771 29.256 10.901 2772 23.568 14.912
2773 23.390 14.966 2774 23.210 15.017 2775 23.030 15.067
2776 22.849 15.114 2777 23.271 24.981 2778 23.450 26.105
2779 23.582 27.250 2780 23.666 28.422 2781 23.702 29.624
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ELEMENT VERTICES (4(4I5))

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6465  10 6466  10
ELEM  ID DEFINIT.: ID, RECH(FT/D, - IS RECHARGE), VPRM(1/D), HDLEAK (I5,3F10.0)
  1  -0.0003  0.0000  0.00
  2  -0.0003  0.0000  0.00
  3  -0.0003  0.0000  0.00
  4  -0.0003  0.0000  0.00
  5  -0.0002  0.0000  0.00
  6  -0.0002  0.0000  0.00
  7  -0.0002  0.0000  0.00
  8  -0.0002  0.0000  0.00
  9  -0.0002  0.0000  0.00
 10  -0.0002  0.0000  0.00
 31  -0.00147  0.0000  0.00
 33  -0.00115  0.0000  0.00
 35  -0.0000  0.0000  0.00
 65  -0.0120  0.0000  0.00
GS ARRAY: INP,SFCT (I2,F10.0); NODE,GROUND SURFACE ELEVATION (5(I5,F10.0))
1  1.0000
  1 5129.4447  2 5140.7201  3 5127.1738  4 5142.5613  5 5127.4628
  6 5127.8363  7 5146.9969  8 5129.4176  9 5128.1809  10 5126.1001
 11 5149.0465  12 5146.0134  13 5129.8582  14 5128.0755  15 5127.7593
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16 5128.3173 17 5149.5409 18 5136.1113 19 5132.0060 20 5129.1152
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26 5133.6523 27 5130.2817 28 5130.6920 29 5130.9855 30 5128.3482
31 5128.3110 32 5147.3604 33 5138.9418 34 5134.8354 35 5131.3708
36 5132.4126 37 5132.5294 38 5129.7477 39 5127.4007 40 5126.8978
41 5145.4277 42 5140.2176 43 5139.7340 44 5132.0192 45 5134.6688
46 5139.1257 47 5131.8738 48 5128.2196 49 5125.2732 50 5124.6316
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56 5145.7745 57 5139.3132 58 5131.6952 59 5127.3056 60 5124.9845
61 5125.3871 62 5144.0027 63 5140.9668 64 5140.8888 65 5138.3786
66 5146.7521 67 5142.7706 68 5145.7494 69 5140.6834 70 5130.4015
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86 5131.7367 87 5147.5869 88 5142.6679 89 5143.7520 90 5139.4782
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2721 5267.2319 2722 5273.4817 2723 5273.4424 2724 5218.7512 2725 5213.7857
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2776 5206.9441 2777 5172.3208 2778 5168.8736 2779 5165.9929 2780 5163.7625
2781 5161.6529 2782 5155.9543 2783 5153.3453 2784 5148.4024 2785 5149.9320
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2791 5211.2898 2792 5208.0219 2793 5203.8936 2794 5199.3713 2795 5196.1894
2796 5193.1307 2797 5190.1592 2798 5187.4631 2799 5187.2157 2800 5182.7249
2801 5179.0456 2802 5176.4397 2803 5224.2271 2804 5236.6743 2805 5238.7816
2806 5242.2974 2807 5244.4446 2808 5253.3643 2809 5256.9040 2810 5256.6123
2811 5220.5373 2812 5259.1104 2813 5259.3625 2814 5260.5530 2815 5261.8388
2816 5266.4763 2817 5266.2837 2818 5218.7300 2819 5216.2204 2820 5211.2146
2821 5208.8715 2822 5171.9529 2823 5168.6928 2824 5165.3342 2825 5163.0794
2826 5159.5321 2827 5156.6231 2828 5153.3479 2829 5147.9793 2830 5153.6114
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2876 5154.3484 2877 5155.9077 2878 5152.9345 2879 5219.4809 2880 5218.1991
2881 5215.1442 2882 5211.9364 2883 5208.5923 2884 5204.1396 2885 5200.9943

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2921 5150.3021 2922 5154.6161 2923 5149.1607 2924 5219.5749 2925 5216.0349
2926 5212.2820 2927 5208.3522 2928 5204.6842 2929 5203.0607 2930 5201.4478
2931 5196.9884 2932 5191.6441 2933 5186.9564 2934 5186.7966 2935 5183.5959
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2951 5256.3383 2952 5258.7073 2953 5219.4294 2954 5172.4850 2955 5169.7917
2956 5166.9430 2957 5165.0563 2958 5163.7441 2959 5159.3174 2960 5159.3398
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3016 5205.8753 3017 5204.5372 3018 5199.1287 3019 5194.7970 3020 5191.9199
3021 5188.4740 3022 5185.4428 3023 5182.2413 3024 5178.8233 3025 5219.3059
3026 5222.5606 3027 5226.9349 3028 5231.7226 3029 5237.9005 3030 5243.7826
3031 5247.0299 3032 5250.7739 3033 5250.3008 3034 5251.4718 3035 5250.2593
3036 5251.7406 3037 5254.0502 3038 5258.4186 3039 5172.1687 3040 5171.0194
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3096 5208.7491 3097 5205.9992 3098 5201.4484 3099 5197.9178 3100 5194.5791
3101 5191.3727 3102 5187.4241 3103 5183.4978 3104 5180.1774 3105 5220.3119
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3131 5215.9175 3132 5213.5419 3133 5211.2267 3134 5207.1194 3135 5202.9117
3136 5198.6489 3137 5195.5500 3138 5192.1111 3139 5188.1436 3140 5184.3660
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3156 5176.9654 3157 5172.2446 3158 5175.1151 3159 5169.0916 3160 5172.4148
3161 5169.1349 3162 5166.0355 3163 5169.6833 3164 5222.1906 3165 5220.2446
3166 5217.8993 3167 5215.3157 3168 5213.0779 3169 5208.9868 3170 5204.6254
3171 5200.1691 3172 5196.0956 3173 5192.1267 3174 5188.6273 3175 5184.3443
3176 5180.5605 3177 5226.1307 3178 5227.7679 3179 5230.9370 3180 5235.0141
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3231 5221.0320 3232 5217.1543 3233 5212.5090 3234 5207.3805 3235 5202.4571
3236 5198.1275 3237 5194.2611 3238 5190.6773 3239 5230.1044 3240 5232.6799
3241 5234.7908 3242 5238.0394 3243 5241.1301 3244 5246.4021 3245 5242.9023
3246 5242.1537 3247 5191.6634 3248 5188.4660 3249 5192.1634 3250 5183.8619
3251 5188.7610 3252 5181.2391 3253 5185.1043 3254 5181.3916 3255 5177.9629
3256 5181.6634 3257 5230.7965 3258 5227.6106 3259 5225.0391 3260 5222.1277
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3271 5239.5068 3272 5240.6405 3273 5239.3944 3274 5196.2606 3275 5192.8718
3276 5197.2158 3277 5189.4390 3278 5193.8413 3279 5185.6968 3280 5189.9114
3281 5185.9470 3282 5180.8394 3283 5186.3278 3284 5232.6348 3285 5231.3684
3286 5225.9544 3287 5223.1157 3288 5216.9960 3289 5212.4935 3290 5208.9657
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3301 5202.6956 3302 5195.3355 3303 5200.5434 3304 5189.3813 3305 5195.9747
3306 5189.7482 3307 5185.2260 3308 5232.0536 3309 5226.6601 3310 5221.4359
3311 5217.6188 3312 5214.8509 3313 5211.2355 3314 5206.1633 3315 5231.5254
3316 5232.7580 3317 5232.3479 3318 5231.4862 3319 5233.7011 3320 5207.7430
3321 5204.5900 3322 5200.6454 3323 5196.2365 3324 5191.3772 3325 5225.6911
3326 5221.2906 3327 5219.3427 3328 5217.9320 3329 5213.7498 3330 5226.8882
3331 5227.4140 3332 5228.2045 3333 5232.0643 3334 5210.2995 3335 5205.4077
3336 5200.5153 3337 5195.3114 3338 5222.3849 3339 5222.7765 3340 5223.6359
3341 5217.7607 3342 5226.1544 3343 5230.7802 3344 5232.1914 3345 5210.6133
3346 5205.7282 3347 5200.1882 3348 5224.9434 3349 5223.1982 3350 5217.0881
3351 5226.0454 3352 5229.7503 3353 5210.9046 3354 5205.4543 3355 5223.0537
3356 5216.6667 3357 5224.9144 3358 5211.7149 3359 5218.3934
ZBED ARRAY: INP,SFCT (I2,F10.0); NODE , BEDROCK ELEVATION (5(I5,F10.0))
1 1.0000
1 5080.0613 2 5080.5223 3 5080.8140 4 5082.3097 5 5083.4592
6 5083.9279 7 5083.6762 8 5083.4239 9 5083.1709 10 5083.5861
11 5081.7525 12 5082.6807 13 5080.5572 14 5080.6219 15 5080.1033
16 5076.1856 17 5078.0083 18 5078.8291 19 5075.2575 20 5076.4334
21 5071.6757 22 5073.7695 23 5070.9392 24 5076.8517 25 5074.8233
26 5072.9252 27 5070.9712 28 5068.7307 29 5068.1716 30 5069.1693
31 5068.0597 32 5081.2807 33 5076.8411 34 5073.3741 35 5069.6959
36 5069.0304 37 5067.0263 38 5066.9614 39 5067.3373 40 5066.7689
41 5084.4025 42 5081.2007 43 5076.4314 44 5073.0688 45 5072.2090
46 5067.8995 47 5066.9638 48 5066.7720 49 5068.7559 50 5067.4170
51 5087.6836 52 5084.2106 53 5079.7203 54 5078.0043 55 5076.9939
56 5071.5494 57 5068.7428 58 5067.3435 59 5067.0194 60 5069.9307
61 5069.8999 62 5089.7568 63 5087.5179 64 5085.8933 65 5083.0935
66 5082.8875 67 5079.1482 68 5074.7661 69 5069.6822 70 5067.7736
71 5068.3992 72 5070.4899 73 5069.4196 74 5091.5724 75 5089.7901
76 5089.5706 77 5087.6988 78 5088.3113 79 5086.2470 80 5085.4446
81 5077.4266 82 5070.9848 83 5072.0056 84 5070.7821 85 5072.0903
86 5069.8976 87 5095.0114 88 5093.0893 89 5091.9702 90 5094.0088
91 5098.9900 92 5092.2848 93 5095.2155 94 5088.8985 95 5078.6189
96 5075.8709 97 5079.7856 98 5075.1107 99 5073.0000 100 5073.7086
101 5096.8919 102 5097.9074 103 5096.5976 104 5098.8947 105 5075.1000
106 5076.5500 107 5078.6900 108 5081.4300 109 5082.9200 110 5083.6700
111 5084.6200 112 5085.2500 113 5085.9600 114 5085.8200 115 5084.6700
116 5083.2200 117 5083.1400 118 5083.2800 119 5083.1500 120 5085.0000
121 5088.4900 122 5092.2500 123 5094.7100 124 5097.1900 125 5098.6400
126 5099.9100 127 5101.4400 128 5101.8200 129 5101.4600 130 5101.8300
131 5103.9200 132 5105.8500 133 5107.2500 134 5109.4610 135 5112.4164
136 5114.4387 137 5116.6502 138 5118.7221 139 5119.3426 140 5118.2811
141 5116.4974 142 5116.8024 143 5106.1227 144 5098.9378 145 5097.8942
146 5096.8100 147 5090.6532 148 5084.0561 149 5087.1256 150 5086.6407
151 5076.3418 152 5072.1200 153 5098.6670 154 5101.1801 155 5100.0032
156 5104.0566 157 5076.1400 158 5076.0800 159 5077.8600 160 5082.5600
161 5081.5800 162 5082.7900 163 5086.7100 164 5087.2200 165 5087.8600
166 5086.2500 167 5088.1000 168 5087.2600 169 5087.0300 170 5083.8400
171 5088.2200 172 5090.8400 173 5094.0200 174 5098.4000 175 5100.4300
176 5103.5900 177 5105.5400 178 5104.1600 179 5101.9700 180 5101.9600
181 5102.3900 182 5103.1600 183 5105.1400 184 5107.5000 185 5109.9532
186 5112.8173 187 5114.9326 188 5117.9119 189 5119.4029 190 5119.4904
191 5118.6184 192 5117.2004 193 5118.4752 194 5110.6681 195 5102.8741
196 5102.9685 197 5102.7200 198 5099.1300 199 5093.6643 200 5089.6068
201 5093.8940 202 5089.5607 203 5080.2354 204 5080.9906 205 5099.4602
206 5108.5011 207 5105.5800 208 5106.8293 209 5082.0700 210 5082.4700
211 5082.9800 212 5083.5600 213 5084.1800 214 5085.2100 215 5087.4700
216 5089.7100 217 5089.8900 218 5090.2700 219 5090.2300 220 5090.4300
221 5093.3400 222 5097.0900 223 5100.2100 224 5101.2500 225 5100.7700
226 5100.8400 227 5101.3700 228 5103.5400 229 5104.5500 230 5103.2300
231 5102.0600 232 5102.2400 233 5103.7900 234 5105.6400 235 5107.8800
236 5111.0574 237 5113.4613 238 5115.9790 239 5118.7634 240 5120.5297
241 5119.9386 242 5118.4444 243 5117.3191 244 5119.0432 245 5112.2912
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251 5095.6143 252 5095.8686 253 5099.6765 254 5092.9896 255 5093.3480
256 5087.4053 257 5101.7996 258 5109.7262 259 5113.8927 260 5110.7273
261 5090.5366 262 5093.0114 263 5088.8800 264 5088.0100 265 5086.7100
266 5088.6400 267 5090.3200 268 5092.9400 269 5095.8300 270 5097.7100
271 5100.3200 272 5102.4400 273 5104.6800 274 5107.4300 275 5108.6800
276 5104.5200 277 5101.0800 278 5102.0100 279 5103.7100 280 5103.6000
281 5103.1200 282 5102.8800 283 5103.0200 284 5104.1600 285 5106.3400
286 5111.2031 287 5112.3243 288 5114.3180 289 5117.1471 290 5119.3305
291 5120.7435 292 5120.5128 293 5119.0757 294 5117.8798 295 5119.1289
296 5117.3110 297 5112.4324 298 5117.6928 299 5117.6830 300 5113.7100
301 5111.7100 302 5104.3739 303 5099.5338 304 5102.5559 305 5104.8371
306 5107.0686 307 5106.1531 308 5104.8509 309 5105.0459 310 5110.8925
311 5115.6484 312 5117.7383 313 5104.1021 314 5104.9608 315 5105.9034
316 5106.4960 317 5107.0803 318 5108.8859 319 5090.7500 320 5094.3200
321 5099.5000 322 5104.5900 323 5107.9200 324 5109.1300 325 5109.0300
326 5107.7900 327 5105.2900 328 5103.4600 329 5102.9700 330 5103.6600
331 5103.6700 332 5103.3700 333 5103.2200 334 5103.7900 335 5105.0000

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351 5116.2000 352 5115.8300 353 5112.6600 354 5106.0047 355 5105.1789
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361 5109.0110 362 5112.5258 363 5118.2338 364 5120.1271 365 5115.1691
366 5114.5740 367 5114.5822 368 5115.1190 369 5114.0337 370 5112.8155
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376 5109.1100 377 5107.1600 378 5104.9600 379 5103.6400 380 5104.1100
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386 5105.7500 387 5107.4900 388 5109.6100 389 5116.3399 390 5116.6445
391 5119.2292 392 5121.6618 393 5122.7179 394 5121.2116 395 5119.1546
396 5118.9989 397 5120.5476 398 5120.4017 399 5119.1333 400 5120.4863
401 5123.9266 402 5122.8255 403 5120.9200 404 5117.7100 405 5113.9700
406 5111.2200 407 5113.9934 408 5118.3369 409 5119.3188 410 5122.0386
411 5122.5205 412 5121.8650 413 5113.4927 414 5117.0696 415 5119.4593
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476 5110.3694 477 5109.5227 478 5109.1080 479 5108.9113 480 5108.9008
481 5109.2517 482 5109.4824 483 5111.0573 484 5111.9566 485 5113.4489
486 5114.7766 487 5116.5878 488 5117.9197 489 5119.2861 490 5119.9940
491 5119.7009 492 5119.4646 493 5121.7466 494 5125.2326 495 5125.0203
496 5121.3819 497 5119.1925 498 5119.5380 499 5121.1915 500 5125.2314
501 5122.8792 502 5122.7222 503 5126.1240 504 5128.2836 505 5127.5235
506 5126.7033 507 5125.5901 508 5125.0545 509 5121.6923 510 5121.4037
511 5122.4366 512 5124.7564 513 5127.0963 514 5128.6538 515 5129.8339
516 5128.1703 517 5119.8870 518 5119.8977 519 5122.2349 520 5124.4237
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2796 5140.2906 2797 5137.6939 2798 5138.2156 2799 5138.1270 2800 5137.5000
2801 5137.0000 2802 5136.5000 2803 5190.4100 2804 5207.7600 2805 5217.4900
2806 5222.9000 2807 5231.5800 2808 5235.8000 2809 5240.3500 2810 5244.9700
2811 5189.4800 2812 5250.8700 2813 5253.3900 2814 5256.8900 2815 5259.9100
2816 5260.7600 2817 5261.4800 2818 5178.9441 2819 5178.1363 2820 5176.7945
2821 5176.3789 2822 5132.5402 2823 5122.3654 2824 5123.1079 2825 5131.0067
2826 5132.9778 2827 5133.8173 2828 5132.7157 2829 5131.2876 2830 5130.7134
2831 5130.3875 2832 5130.4543 2833 5174.8156 2834 5172.9003 2835 5170.8190
2836 5169.3092 2837 5166.7114 2838 5162.7066 2839 5158.2983 2840 5152.4452
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2851 5216.8700 2852 5223.1100 2853 5229.5300 2854 5233.2500 2855 5237.4800
2856 5245.0100 2857 5182.4700 2858 5251.0500 2859 5253.8500 2860 5257.4900
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2876 5130.7650 2877 5131.7055 2878 5130.5164 2879 5175.0807 2880 5173.0451
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2906 5249.0300 2907 5249.3200 2908 5247.1800 2909 5179.2591 2910 5176.9083
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2951 5244.2700 2952 5244.3400 2953 5177.0775 2954 5138.8020 2955 5133.4212
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2991 5228.0700 2992 5235.2400 2993 5239.2800 2994 5231.7800 2995 5242.0500
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3001 5126.2180 3002 5128.8612 3003 5118.6427 3004 5129.6106 3005 5125.5923
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3016 5171.5672 3017 5169.7655 3018 5168.4986 3019 5165.0347 3020 5159.5750
3021 5153.7112 3022 5145.9821 3023 5141.5082 3024 5138.2800 3025 5182.5585
3026 5187.6260 3027 5187.9752 3028 5188.2731 3029 5202.3400 3030 5206.2100
3031 5210.9200 3032 5217.7700 3033 5226.4300 3034 5221.8500 3035 5229.4100
3036 5234.4600 3037 5240.5100 3038 5244.0500 3039 5138.8720 3040 5138.0516
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3096 5173.0661 3097 5170.0723 3098 5167.3559 3099 5163.4813 3100 5159.4137
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3106 5175.0071 3107 5178.9821 3108 5180.8432 3109 5199.3300 3110 5204.7600
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3141 5138.6603 3142 5170.1820 3143 5173.5518 3144 5178.7452 3145 5180.0070
3146 5201.2700 3147 5226.8600 3148 5220.8000 3149 5211.1800 3150 5233.8200
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3156 5131.9040 3157 5118.7380 3158 5120.1385 3159 5122.8287 3160 5118.6317
3161 5126.2779 3162 5130.0848 3163 5130.3962 3164 5168.3392 3165 5168.4885
3166 5168.7830 3167 5168.1438 3168 5164.3754 3169 5161.3247 3170 5159.2318
3171 5156.0151 3172 5152.1009 3173 5149.3131 3174 5144.6337 3175 5139.2400
3176 5138.5268 3177 5170.5973 3178 5174.9737 3179 5178.9761 3180 5182.3243
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3226 5137.1301 3227 5131.6594 3228 5173.9652 3229 5174.6218 3230 5174.8148
3231 5174.2325 3232 5172.1274 3233 5167.8794 3234 5163.1052 3235 5159.0304
3236 5155.6857 3237 5151.6508 3238 5149.0562 3239 5179.5748 3240 5184.6707
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3246 5219.3462 3247 5149.8390 3248 5148.5210 3249 5153.0100 3250 5145.3800
3251 5150.0800 3252 5133.7600 3253 5147.1000 3254 5135.6000 3255 5137.7149
3256 5144.9490 3257 5180.0098 3258 5180.8722 3259 5179.7077 3260 5177.8644
3261 5175.6782 3262 5172.5909 3263 5167.1320 3264 5162.0877 3265 5157.9064
3266 5152.8467 3267 5186.3117 3268 5193.9428 3269 5199.8707 3270 5209.0741
3271 5217.3953 3272 5228.1720 3273 5223.1565 3274 5155.8475 3275 5153.1500
3276 5157.0039 3277 5151.1600 3278 5152.9922 3279 5148.8200 3280 5154.6253
3281 5152.8843 3282 5148.2897 3283 5161.0736 3284 5186.9905 3285 5186.3503
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3291 5167.6827 3292 5162.3668 3293 5193.6312 3294 5199.2913 3295 5207.9394
3296 5215.3882 3297 5221.5977 3298 5224.9284 3299 5163.7973 3300 5160.2872
3301 5167.6136 3302 5161.4204 3303 5169.3927 3304 5159.9306 3305 5166.0881
3306 5168.9176 3307 5165.0062 3308 5192.3642 3309 5190.1012 3310 5187.1263
3311 5183.7950 3312 5179.8619 3313 5174.8588 3314 5169.5548 3315 5199.7950
3316 5206.7900 3317 5213.2964 3318 5220.4677 3319 5222.2765 3320 5173.8276
3321 5175.3582 3322 5172.1788 3323 5174.9068 3324 5177.6147 3325 5197.9694
3326 5195.7525 3327 5191.9717 3328 5186.8146 3329 5180.1582 3330 5205.3070
3331 5211.0751 3332 5218.4727 3333 5219.8086 3334 5181.8609 3335 5178.1015
3336 5180.0722 3337 5177.4881 3338 5203.5633 3339 5200.1796 3340 5196.2907
3341 5189.7805 3342 5208.8253 3343 5216.2014 3344 5217.4568 3345 5184.9544
3346 5186.5548 3347 5182.2767 3348 5205.2564 3349 5199.6137 3350 5193.0807
3351 5213.4518 3352 5214.5486 3353 5195.1027 3354 5189.3706 3355 5208.2324
3356 5202.4761 3357 5210.3834 3358 5199.0197 3359 5205.7303
ZBASE ARRAY: INP,SFCT (I2,F10.0); NODE,AQUIFER BASE ELEVATION (5(I5,F10.0))
1 1.0000
1 5079.06 2 5079.52 3 5079.81 4 5081.31 5 5082.46
6 5082.93 7 5082.68 8 5082.42 9 5082.17 10 5082.47
11 5080.75 12 5081.68 13 5079.56 14 5079.62 15 5079.10
16 5075.19 17 5077.01 18 5077.83 19 5073.79 20 5075.43
21 5070.68 22 5072.77 23 5069.94 24 5075.85 25 5073.82
26 5071.03 27 5068.78 28 5067.23 29 5067.17 30 5068.17
31 5067.06 32 5080.28 33 5075.84 34 5072.37 35 5068.30
36 5067.53 37 5066.03 38 5065.96 39 5066.34 40 5065.77
41 5083.40 42 5080.20 43 5075.43 44 5072.07 45 5071.21
46 5066.90 47 5065.96 48 5065.77 49 5067.76 50 5066.42
51 5086.68 52 5083.21 53 5078.72 54 5077.00 55 5075.12
56 5070.39 57 5067.74 58 5066.34 59 5066.02 60 5068.93
61 5068.90 62 5088.76 63 5086.52 64 5084.89 65 5082.09
66 5079.91 67 5074.15 68 5071.24 69 5068.68 70 5066.77
71 5067.40 72 5069.49 73 5068.42 74 5090.57 75 5088.79
76 5088.57 77 5086.70 78 5085.86 79 5078.66 80 5074.50
81 5071.77 82 5069.98 83 5071.01 84 5069.65 85 5071.09
86 5068.90 87 5094.01 88 5092.09 89 5090.97 90 5093.01
91 5097.24 92 5086.21 93 5079.24 94 5075.30 95 5073.32
96 5074.87 97 5078.79 98 5074.11 99 5071.00 100 5072.71
101 5095.89 102 5096.91 103 5095.60 104 5097.89 105 5073.10
106 5074.55 107 5076.69 108 5079.43 109 5080.92 110 5081.89
111 5083.55 112 5083.56 113 5084.23 114 5083.99 115 5070.91
116 5071.25 117 5072.20 118 5072.56 119 5073.22 120 5073.52
121 5075.48 122 5077.18 123 5082.31 124 5082.57 125 5081.21
126 5083.41 127 5084.30 128 5086.67 129 5088.07 130 5090.97
131 5092.43 132 5093.22 133 5093.16 134 5105.07 135 5105.64
136 5105.71 137 5105.31 138 5104.04 139 5101.97 140 5100.36
141 5099.99 142 5099.95 143 5103.28 144 5097.94 145 5089.22
146 5080.73 147 5076.94 148 5080.59 149 5086.13 150 5085.64
151 5075.28 152 5070.12 153 5097.67 154 5100.18 155 5099.00
156 5100.53 157 5074.14 158 5074.08 159 5075.86 160 5069.60
161 5071.21 162 5070.74 163 5084.86 164 5071.77 165 5073.06
166 5072.65 167 5075.40 168 5075.16 169 5075.51 170 5074.21
171 5076.20 172 5077.15 173 5077.11 174 5080.58 175 5071.71
176 5087.22 177 5087.99 178 5086.56 179 5086.57 180 5088.24
181 5090.37 182 5092.48 183 5093.81 184 5093.98 185 5105.23
186 5106.02 187 5106.26 188 5105.58 189 5104.16 190 5101.96
191 5100.33 192 5099.91 193 5099.98 194 5104.59 195 5101.87
196 5099.44 197 5091.03 198 5085.74 199 5083.93 200 5087.87
201 5091.24 202 5088.56 203 5079.24 204 5078.96 205 5098.46
206 5102.85 207 5103.14 208 5102.45 209 5080.70 210 5080.47
211 5080.98 212 5076.78 213 5082.18 214 5083.21 215 5085.47
216 5087.71 217 5087.89 218 5075.84 219 5079.34 220 5088.43
221 5092.00 222 5092.78 223 5093.77 224 5094.21 225 5095.87
226 5096.43 227 5087.89 228 5088.86 229 5089.71 230 5088.89
231 5088.61 232 5089.15 233 5090.36 234 5092.58 235 5093.72
236 5105.99 237 5106.61 238 5106.56 239 5105.67 240 5103.73
241 5101.56 242 5100.12 243 5099.78 244 5100.15 245 5106.09

246 5105.68 247 5105.36 248 5104.00 249 5097.62 250 5095.10
251 5092.93 252 5092.55 253 5094.05 254 5079.34 255 5075.74
256 5086.41 257 5100.80 258 5105.14 259 5095.91 260 5106.63
261 5078.32 262 5076.96 263 5077.42 264 5086.01 265 5084.71
266 5086.64 267 5088.32 268 5090.94 269 5094.38 270 5094.47
271 5081.18 272 5082.95 273 5095.82 274 5096.19 275 5097.30
276 5098.34 277 5099.48 278 5100.89 279 5101.05 280 5102.44
281 5101.80 282 5100.88 283 5101.02 284 5102.16 285 5105.09
286 5105.88 287 5106.46 288 5107.21 289 5107.17 290 5106.21
291 5103.91 292 5101.07 293 5099.86 294 5099.63 295 5100.33
296 5099.00 297 5107.93 298 5107.65 299 5106.64 300 5105.20
301 5103.76 302 5100.32 303 5097.06 304 5093.02 305 5095.35
306 5094.91 307 5095.02 308 5095.15 309 5104.05 310 5108.10
311 5097.55 312 5098.78 313 5094.76 314 5094.89 315 5095.11
316 5095.72 317 5095.56 318 5095.91 319 5088.75 320 5092.32
321 5096.67 322 5097.14 323 5083.17 324 5086.65 325 5098.90
326 5099.99 327 5099.92 328 5100.94 329 5101.83 330 5102.62
331 5092.66 332 5092.05 333 5092.61 334 5090.42 335 5090.60
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346 5100.68 347 5102.24 348 5111.36 349 5110.72 350 5110.10
351 5107.68 352 5107.90 353 5106.11 354 5103.64 355 5099.13
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361 5108.01 362 5110.94 363 5100.04 364 5102.52 365 5095.86
366 5098.03 367 5098.06 368 5098.07 369 5098.58 370 5098.21
371 5098.69 372 5098.72 373 5099.24 374 5098.97 375 5086.93
376 5100.74 377 5101.66 378 5101.78 379 5101.86 380 5102.98
381 5102.91 382 5092.73 383 5094.08 384 5093.35 385 5091.79
386 5103.75 387 5106.49 388 5107.07 389 5107.33 390 5107.31
391 5108.57 392 5107.36 393 5104.15 394 5100.69 395 5099.34
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401 5114.62 402 5114.04 403 5112.88 404 5111.33 405 5108.93
406 5106.36 407 5102.09 408 5101.86 409 5102.38 410 5101.76
411 5101.82 412 5101.72 413 5112.42 414 5112.57 415 5112.88
416 5101.36 417 5100.58 418 5101.34 419 5101.29 420 5101.17
421 5101.15 422 5101.29 423 5101.15 424 5101.73 425 5101.74
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436 5093.12 437 5106.85 438 5107.48 439 5107.67 440 5107.59
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446 5099.05 447 5099.66 448 5101.76 449 5100.24 450 5108.01
451 5112.73 452 5118.52 453 5118.96 454 5118.88 455 5117.49
456 5114.63 457 5111.72 458 5107.95 459 5107.63 460 5106.87
461 5106.53 462 5105.98 463 5105.72 464 5105.57 465 5114.41
466 5114.19 467 5114.00 468 5100.89 469 5105.22 470 5105.01
471 5105.09 472 5104.15 473 5104.09 474 5103.66 475 5103.79
476 5104.24 477 5104.21 478 5104.74 479 5105.23 480 5105.14
481 5105.13 482 5105.75 483 5095.46 484 5095.29 485 5094.21
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556 5124.91 557 5125.41 558 5125.40 559 5124.18 560 5122.85
561 5121.56 562 5120.33 563 5118.83 564 5118.14 565 5117.01
566 5115.64 567 5114.05 568 5113.20 569 5117.98 570 5116.17
571 5115.66 572 5103.84 573 5112.08 574 5115.33 575 5113.96
576 5113.70 577 5112.13 578 5110.05 579 5108.53 580 5109.29
581 5109.43 582 5109.48 583 5109.15 584 5109.15 585 5108.39
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591 5110.47 592 5110.85 593 5110.14 594 5112.60 595 5112.67
596 5111.20 597 5106.07 598 5099.54 599 5099.05 600 5101.08
601 5103.85 602 5107.00 603 5108.09 604 5115.62 605 5124.84
606 5126.26 607 5127.22 608 5127.59 609 5128.49 610 5128.28
611 5126.93 612 5126.48 613 5126.74 614 5126.94 615 5126.46
616 5125.68 617 5122.72 618 5121.53 619 5119.29 620 5118.72
621 5118.64 622 5117.50 623 5108.00 624 5103.40 625 5117.99
626 5121.12 627 5120.62 628 5120.04 629 5115.73 630 5114.63
631 5114.18 632 5114.18 633 5113.49 634 5113.37 635 5112.38
636 5110.79 637 5110.26 638 5110.08 639 5099.06 640 5110.56
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656 5120.77 657 5129.62 658 5130.74 659 5131.70 660 5133.03
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676 5102.51 677 5128.00 678 5127.13 679 5126.20 680 5123.13
681 5119.88 682 5118.15 683 5118.72 684 5116.60 685 5114.90
686 5115.13 687 5114.90 688 5112.04 689 5112.89 690 5101.90
691 5112.34 692 5112.77 693 5112.72 694 5113.26 695 5114.80
696 5115.68 697 5115.13 698 5113.20 699 5106.36 700 5100.04
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1486	5148.28	1487	5146.75	1488	5145.72	1489	5144.90	1490	5144.52
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1561	5128.38	1562	5125.30	1563	5156.00	1564	5156.00	1565	5157.00
1566	5164.00	1567	5158.00	1568	5155.77	1569	5138.57	1570	5165.00
1571	5167.00	1572	5182.00	1573	5179.00	1574	5147.35	1575	5145.00
1576	5149.87	1577	5151.22	1578	5151.11	1579	5148.32	1580	5143.35
1581	5137.94	1582	5139.63	1583	5143.01	1584	5141.67	1585	5140.72
1586	5149.14	1587	5147.79	1588	5146.62	1589	5145.58	1590	5144.86
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1601	5139.92	1602	5139.02	1603	5138.70	1604	5137.21	1605	5135.13
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1626	5154.85	1627	5155.31	1628	5151.87	1629	5151.69	1630	5150.45
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1671	5152.00	1672	5177.00	1673	5174.00	1674	5176.00	1675	5176.00
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1736	5151.33	1737	5151.29	1738	5148.37	1739	5146.61	1740	5142.60
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1776	5156.86	1777	5181.00	1778	5177.00	1779	5171.00	1780	5177.00
1781	5154.62	1782	5154.00	1783	5159.00	1784	5153.00	1785	5157.63
1786	5182.00	1787	5183.00	1788	5183.00	1789	5182.00	1790	5181.00
1791	5181.00	1792	5166.52	1793	5152.40	1794	5153.29	1795	5150.03
1796	5147.42	1797	5141.96	1798	5142.93	1799	5145.24	1800	5149.38
1801	5151.23	1802	5150.96	1803	5148.99	1804	5147.32	1805	5145.87
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1811	5142.48	1812	5142.85	1813	5142.40	1814	5141.80	1815	5140.57
1816	5139.47	1817	5139.26	1818	5135.63	1819	5134.18	1820	5133.62
1821	5133.99	1822	5133.63	1823	5132.76	1824	5131.72	1825	5130.93
1826	5128.95	1827	5161.00	1828	5161.00	1829	5159.00	1830	5168.00
1831	5172.00	1832	5181.00	1833	5154.50	1834	5177.00	1835	5173.00
1836	5177.00	1837	5151.82	1838	5153.00	1839	5159.00	1840	5154.00
1841	5153.78	1842	5182.00	1843	5186.00	1844	5185.00	1845	5184.00
1846	5185.00	1847	5185.00	1848	5157.00	1849	5153.39	1850	5152.00
1851	5148.86	1852	5146.85	1853	5146.27	1854	5146.70	1855	5144.55
1856	5149.91	1857	5151.01	1858	5149.65	1859	5147.58	1860	5146.61
1861	5145.29	1862	5144.46	1863	5144.14	1864	5143.38	1865	5141.67
1866	5141.27	1867	5142.18	1868	5142.60	1869	5141.11	1870	5139.45
1871	5138.36	1872	5138.88	1873	5134.07	1874	5133.86	1875	5133.44
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3161 5125.28 3162 5129.08 3163 5129.40 3164 5162.33 3165 5161.83
3166 5161.66 3167 5161.43 3168 5159.78 3169 5155.90 3170 5153.26
3171 5151.04 3172 5148.90 3173 5146.40 3174 5143.56 3175 5137.74
3176 5137.53 3177 5163.37 3178 5164.86 3179 5166.00 3180 5163.32
3181 5167.06 3182 5167.12 3183 5167.09 3184 5167.08 3185 5167.08
3186 5179.33 3187 5138.35 3188 5129.66 3189 5139.55 3190 5117.87
3191 5128.97 3192 5120.59 3193 5117.51 3194 5122.43 3195 5132.49
3196 5129.30 3197 5162.57 3198 5161.93 3199 5161.60 3200 5161.09
3201 5159.40 3202 5156.13 3203 5152.90 3204 5150.64 3205 5148.63
3206 5146.20 3207 5143.43 3208 5140.72 3209 5163.93 3210 5165.16
3211 5166.27 3212 5166.49 3213 5166.52 3214 5175.04 3215 5166.49
3216 5166.50 3217 5166.45 3218 5143.13 3219 5139.83 3220 5143.11
3221 5125.77 3222 5139.83 3223 5120.29 3224 5125.23 3225 5122.69
3226 5134.95 3227 5128.78 3228 5162.95 3229 5162.13 3230 5161.58
3231 5161.11 3232 5159.57 3233 5156.75 3234 5153.71 3235 5151.46
3236 5149.54 3237 5147.17 3238 5144.36 3239 5164.26 3240 5165.32
3241 5165.56 3242 5165.56 3243 5165.30 3244 5171.13 3245 5165.26
3246 5165.34 3247 5145.47 3248 5143.58 3249 5145.87 3250 5138.79
3251 5144.31 3252 5128.35 3253 5139.77 3254 5132.39 3255 5134.43
3256 5138.48 3257 5163.33 3258 5162.28 3259 5161.48 3260 5160.82
3261 5158.99 3262 5156.22 3263 5153.66 3264 5151.74 3265 5149.97
3266 5147.87 3267 5164.26 3268 5164.46 3269 5164.49 3270 5164.00
3271 5164.00 3272 5168.17 3273 5163.82 3274 5148.36 3275 5147.19
3276 5149.65 3277 5144.15 3278 5147.30 3279 5142.54 3280 5145.67
3281 5143.32 3282 5141.35 3283 5145.71 3284 5163.16 3285 5162.23
3286 5161.36 3287 5160.42 3288 5158.63 3289 5156.46 3290 5154.23
3291 5152.30 3292 5150.37 3293 5163.38 3294 5163.25 3295 5163.00
3296 5162.88 3297 5162.68 3298 5164.93 3299 5151.44 3300 5150.20
3301 5151.82 3302 5148.81 3303 5151.18 3304 5146.91 3305 5149.68
3306 5148.07 3307 5146.25 3308 5162.20 3309 5161.06 3310 5159.93
3311 5158.42 3312 5156.59 3313 5154.73 3314 5153.06 3315 5161.99
3316 5162.03 3317 5161.72 3318 5161.60 3319 5161.80 3320 5153.27
3321 5152.65 3322 5151.78 3323 5150.52 3324 5150.16 3325 5160.76
3326 5159.41 3327 5157.94 3328 5156.31 3329 5154.73 3330 5160.80
3331 5160.60 3332 5160.36 3333 5160.62 3334 5153.82 3335 5153.02
3336 5152.34 3337 5151.60 3338 5159.49 3339 5158.06 3340 5156.55
3341 5155.09 3342 5159.32 3343 5159.05 3344 5159.28 3345 5153.96
3346 5153.32 3347 5152.88 3348 5157.92 3349 5156.47 3350 5155.09
3351 5157.75 3352 5157.79 3353 5153.89 3354 5153.43 3355 5156.30
3356 5154.93 3357 5156.24 3358 5153.87 3359 5154.81
HYDK1 ARRAY: INP,SFCT (I2,F10.0); NODE,HYDR. COND (AQ.1) (FT/DAY) 5(I5,F10.0)
1 1.0000
1 1282.5900 2 1200.0000 3 1259.1100 4 1200.0000 5 1500.0000
6 1200.0000 7 1375.7300 8 1500.0000 9 1334.2900 10 1200.0000
11 1433.5200 12 1500.0000 13 1500.0000 14 1200.0000 15 1200.0000
16 1200.0000 17 1500.0000 18 400.0000 19 1500.0000 20 1500.0000
21 1346.6300 22 1200.0000 23 1096.7500 24 1337.2000 25 406.1300
26 1500.0000 27 1500.0000 28 1500.0000 29 1500.0000 30 1257.0600
31 1500.0000 32 1392.5800 33 605.5600 34 995.1000 35 1096.3200
36 1479.2800 37 1500.0000 38 1500.0000 39 1218.7400 40 1500.0000
41 690.0800 42 1086.3000 43 525.4500 44 80.0000 45 80.0000
46 55.0000 47 1500.0000 48 1500.0000 49 416.1100 50 1462.9400
51 400.0000 52 1419.7600 53 542.8100 54 80.0000 55 80.0000
56 80.0000 57 55.0000 58 200.0000 59 1238.6400 60 540.9600
61 1088.3900 62 497.5800 63 1411.7200 64 400.0000 65 80.0000
66 80.0000 67 80.0000 68 55.0000 69 55.0000 70 200.0000
71 400.0000 72 594.3200 73 858.4700 74 454.7900 75 1444.2600
76 942.6100 77 30.0000 78 30.0000 79 30.0000 80 55.0000
81 55.0000 82 55.0000 83 100.0000 84 400.0000 85 419.3000
86 529.5100 87 510.0600 88 275.0000 89 865.4300 90 30.0000
91 20.0000 92 35.0000 93 55.0000 94 55.0000 95 55.0000
96 55.0000 97 50.0000 98 400.0000 99 553.9500 100 250.0000
101 325.0000 102 275.0000 103 100.0000 104 70.0000 105 250.0000
106 250.0000 107 250.0000 108 250.0000 109 250.0000 110 250.0000
111 250.0000 112 250.0000 113 250.0000 114 250.0000 115 150.0000
116 150.0000 117 150.0000 118 150.0000 119 100.0000 120 100.0000
121 100.0000 122 100.0000 123 150.0000 124 200.0000 125 200.0000
126 200.0000 127 200.0000 128 200.0000 129 200.0000 130 200.0000
131 200.0000 132 200.0000 133 200.0000 134 228.8200 135 230.0000
136 230.0000 137 230.0000 138 230.0000 139 230.0000 140 230.0000
141 150.0000 142 150.0000 143 40.0000 144 15.0000 145 15.0000
146 25.0000 147 55.0000 148 55.0000 149 55.0000 150 50.0000
151 250.0000 152 250.0000 153 325.0000 154 275.0000 155 100.0000

156 110.0000 157 250.0000 158 250.0000 159 250.0000 160 250.0000
161 250.0000 162 250.0000 163 250.0000 164 250.0000 165 250.0000
166 100.0000 167 150.0000 168 150.0000 169 125.0000 170 100.0000
171 100.0000 172 100.0000 173 100.0000 174 100.0000 175 215.0000
176 200.0000 177 200.0000 178 200.0000 179 200.0000 180 200.0000
181 200.0000 182 200.0000 183 200.0000 184 200.0000 185 228.7200
186 230.0000 187 230.0000 188 230.0000 189 230.0000 190 230.0000
191 230.0000 192 150.0000 193 150.0000 194 110.0000 195 20.0000
196 15.0000 197 15.0000 198 15.0000 199 25.0000 200 55.0000
201 90.0000 202 225.0000 203 250.0000 204 250.0000 205 325.0000
206 250.0000 207 100.0000 208 210.0000 209 250.0000 210 250.0000
211 250.0000 212 235.0700 213 100.0000 214 100.0000 215 100.0000
216 100.0000 217 100.0000 218 100.0000 219 125.0000 220 100.0000
221 100.0000 222 100.0000 223 100.0000 224 100.0000 225 100.0000
226 100.0000 227 100.0000 228 200.0000 229 200.0000 230 200.0000
231 200.0000 232 200.0000 233 200.0000 234 200.0000 235 200.0000
236 220.1600 237 230.0000 238 230.0000 239 230.0000 240 230.0000
241 230.0000 242 230.0000 243 150.0000 244 150.0000 245 375.0000
246 100.0000 247 30.0000 248 25.0000 249 20.0000 250 15.0000
251 30.0000 252 90.0000 253 250.0000 254 250.0000 255 250.0000
256 100.0000 257 200.0000 258 250.0000 259 75.0000 260 210.0000
261 100.0000 262 100.0000 263 100.0000 264 100.0000 265 100.0000
266 100.0000 267 100.0000 268 100.0000 269 100.0000 270 100.0000
271 100.0000 272 100.0000 273 100.0000 274 200.0000 275 100.0000
276 100.0000 277 100.0000 278 100.0000 279 100.0000 280 200.0000
281 200.0000 282 200.0000 283 200.0000 284 200.0000 285 200.0000
286 205.7800 287 214.2000 288 230.0000 289 230.0000 290 230.0000
291 230.0000 292 230.0000 293 230.0000 294 150.0000 295 150.0000
296 375.0000 297 350.0000 298 100.0000 299 40.0000 300 25.0000
301 25.0000 302 30.0000 303 50.0000 304 100.0000 305 250.0000
306 250.0000 307 250.0000 308 250.0000 309 200.0000 310 250.0000
311 100.0000 312 210.0000 313 100.0000 314 100.0000 315 100.0000
316 100.0000 317 100.0000 318 100.0000 319 100.0000 320 100.0000
321 100.0000 322 375.0000 323 375.0000 324 400.0000 325 250.0000
326 160.0000 327 160.0000 328 160.0000 329 160.0000 330 400.0000
331 400.0000 332 200.0000 333 200.0000 334 200.0000 335 200.0000
336 200.0000 337 200.0000 338 212.8800 339 230.0000 340 230.0000
341 230.0000 342 230.0000 343 230.0000 344 230.0000 345 150.0000
346 150.0000 347 375.0000 348 400.0000 349 400.0000 350 100.0000
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361 200.0000 362 250.0000 363 200.0000 364 350.0000 365 190.0000
366 210.0000 367 220.0000 368 230.0000 369 100.0000 370 150.0000
371 200.0000 372 250.0000 373 300.0000 374 350.0000 375 390.0000
376 400.0000 377 300.0000 378 300.0000 379 300.0000 380 300.0000
381 400.0000 382 400.0000 383 200.0000 384 200.0000 385 200.0000
386 200.0000 387 200.0000 388 200.0000 389 225.1000 390 230.0000
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401 300.0000 402 80.0000 403 80.0000 404 80.0000 405 40.0000
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411 160.0000 412 190.0000 413 200.0000 414 250.0000 415 325.0000
416 450.0000 417 220.0000 418 250.0000 419 280.0000 420 310.0000
421 340.0000 422 370.0000 423 380.0000 424 390.0000 425 400.0000
426 400.0000 427 450.0000 428 450.0000 429 350.0000 430 400.0000
431 400.0000 432 400.0000 433 200.0000 434 200.0000 435 200.0000
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441 100.0000 442 100.0000 443 230.0000 444 230.0000 445 230.0000
446 100.0000 447 150.0000 448 150.0000 449 400.0000 450 400.0000
451 400.0000 452 300.0000 453 200.0000 454 65.0000 455 65.0000
456 80.0000 457 50.0000 458 50.0000 459 70.0000 460 100.0000
461 130.0000 462 160.0000 463 190.0000 464 220.0000 465 150.0000
466 175.0000 467 190.0000 468 450.0000 469 250.0000 470 300.0000
471 340.0000 472 370.0000 473 380.0000 474 390.0000 475 400.0000
476 400.0000 477 550.0000 478 550.0000 479 400.0000 480 400.0000
481 400.0000 482 500.0000 483 500.0000 484 100.0000 485 100.0000
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496 100.0000 497 100.0000 498 150.0000 499 150.0000 500 400.0000
501 400.0000 502 400.0000 503 300.0000 504 250.0000 505 65.0000
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546 100.0000 547 100.0000 548 100.0000 549 150.0000 550 150.0000
551 400.0000 552 275.0000 553 300.0000 554 300.0000 555 60.0000
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561 15.0000 562 15.0000 563 50.0000 564 50.0000 565 50.0000

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576 30.0000 577 20.0000 578 20.0000 579 20.0000 580 250.0000
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696 70.0000 697 70.0000 698 100.0000 699 100.0000 700 100.0000
701 100.0000 702 150.0000 703 150.0000 704 60.0000 705 100.0000
706 60.0000 707 60.0000 708 60.0000 709 60.0000 710 60.0000
711 60.0000 712 125.0000 713 125.0000 714 100.0000 715 85.0000
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761 60.0000 762 60.0000 763 60.0000 764 100.0000 765 125.0000
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776 50.0000 777 10.0000 778 4.8800 779 4.6200 780 5.0000
781 30.0000 782 12.0000 783 12.0000 784 12.0000 785 12.0000
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796 70.0000 797 70.0000 798 70.0000 799 70.0000 800 70.0000
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866 85.0000 867 150.0000 868 150.0000 869 125.0000 870 125.0000
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896 70.0000 897 70.0000 898 70.0000 899 5.0000 900 5.0000
901 70.0000 902 70.0000 903 70.0000 904 70.0000 905 100.0000
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3316   5.0000 3317   5.0000 3318   5.0000 3319   5.0000 3320   5.0000
3321   5.0000 3322   5.0000 3323   5.0000 3324   5.0000 3325   5.0000
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3341   5.0000 3342   5.0000 3343   5.0000 3344   5.0000 3345   5.0000
3346   5.0000 3347   5.0000 3348   5.0000 3349   5.0000 3350   5.0000
3351   5.0000 3352   5.0000 3353   5.0000 3354   5.0000 3355   5.0000
3356   5.0000 3357   5.0000 3358   5.0000 3359   5.0000
HYDK2 ARRAY: INP,SFCT (I2,F10.0); NODE,HYDR. COND (AQ.2)  (FT/DAY) 5(I5,F10.0)
 1  1.0000
   1  2.8100   2  2.8100   3  2.8100   4  2.8100   5  2.8100
   6  2.8100   7  2.8100   8  2.8100   9  2.8100  10  2.8100
  11  2.8100  12  2.8100  13  2.8100  14  2.8100  15  2.8100
  16  2.8100  17  2.8100  18  2.8100  19  2.8100  20  2.8100
  21  2.8100  22  2.8100  23  2.8100  24  2.8100  25  2.8100
  26  2.8100  27  2.8100  28  2.8100  29  2.8100  30  2.8100
  31  2.8100  32  2.8100  33  2.8100  34  2.8100  35  2.8100
  36  2.8100  37  2.8100  38  2.8100  39  2.8100  40  2.8100
  41  2.8100  42  2.8100  43  2.8100  44  2.8100  45  2.8100
  46  2.8100  47  2.8100  48  2.8100  49  2.8100  50  2.8100
  51  2.8100  52  2.8100  53  2.8100  54  2.8100  55  2.8100
  56  2.8100  57  2.8100  58  2.8100  59  2.8100  60  2.8100
  61  2.8100  62  2.8100  63  2.8100  64  2.8100  65  2.8100
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3346  3.0000 3347  3.0000 3348  1.5000 3349  1.5000 3350  1.5000
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3356  1.5000 3357  1.5000 3358  1.5000 3359  1.5000
STORAGE COEFF. ARRAY: INP,SFCT (I2,F10.0); NODE, STORAGE (5(I5,F10.0))
 0  0.000000
INITIAL HEAD ARRAY: INP,SFCT (I2,F10.0);' NODE, HEAD (FT) (5(I5,F10.0))
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  6 5095.4489   7 5097.5197   8 5096.4103   9 5095.5517  10 5094.9426
 11 5098.1018  12 5097.4000  13 5095.7237  14 5095.0452  15 5094.5582
 16 5094.6151  17 5098.7487  18 5097.1177  19 5095.8701  20 5095.1945
 21 5094.7364  22 5094.2898  23 5094.3969  24 5099.6407  25 5097.5819
 26 5096.1891  27 5095.4000  28 5094.8695  29 5094.4950  30 5093.8055
 31 5094.0408  32 5100.7049  33 5098.4969  34 5096.6158  35 5095.5290
 36 5094.9972  37 5094.6841  38 5094.2342  39 5093.0204  40 5093.4629
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   34 22.34000    0.000    0.00
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   38 96.15500    0.000    0.00
   39 26.95000    0.000    0.00
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55	-1.37220	0.000	0.00
56	-1.37220	0.000	0.00
57	-1.37220	0.000	0.00
58	-23.20311	0.000	0.00
59	-32.59635	0.000	0.00
60	10.43251	0.000	0.00
61	-10.66527	0.000	0.00
62	13.99796	0.000	0.00
63	-14.66118	0.000	0.00
64	-128.92235	0.000	0.00
65	-49.29010	0.000	0.00
66	-74.88134	0.000	0.00
67	-47.90265	0.000	0.00
68	-33.75900	0.000	0.00
69	-17.15627	0.000	0.00
70	-10.84279	0.000	0.00
71	0.08778	0.000	0.00
72	-0.91838	0.000	0.00
73	-1.26183	0.000	0.00
74	2.89217	0.000	0.00
75	-3.65212	0.000	0.00
76	-0.82462	0.000	0.00
77	1.15807	0.000	0.00
78	0.04578	0.000	0.00
79	1.50739	0.000	0.00
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81	-0.30926	0.000	0.00
82	0.48161	0.000	0.00
83	1.78905	0.000	0.00
84	2.36220	0.000	0.00
85	4.32788	0.000	0.00
86	-0.70411	0.000	0.00
87	14.83922	0.000	0.00
88	-9.34534	0.000	0.00
89	-2.06994	0.000	0.00
90	0.43317	0.000	0.00
91	-3.32842	0.000	0.00
92	1.02510	0.000	0.00
93	-12.06293	0.000	0.00
94	-2.42988	0.000	0.00
95	-0.20277	0.000	0.00
96	-0.14065	0.000	0.00
97	-0.03595	0.000	0.00
98	0.02014	0.000	0.00
99	0.04814	0.000	0.00
100	0.03351	0.000	0.00
101	0.00319	0.000	0.00
102	-0.11040	0.000	0.00
103	-0.21168	0.000	0.00
104	-0.84220	0.000	0.00
105	-1.25172	0.000	0.00
106	-1.76521	0.000	0.00
107	-2.12352	0.000	0.00
108	-1.14096	0.000	0.00
109	-1.60693	0.000	0.00
110	-0.81172	0.000	0.00
111	-0.96258	0.000	0.00
112	-1.32251	0.000	0.00
113	-0.37529	0.000	0.00
114	-0.19330	0.000	0.00
115	0.17916	0.000	0.00
116	-0.03592	0.000	0.00
117	0.30297	0.000	0.00
118	0.05533	0.000	0.00
119	-0.07739	0.000	0.00
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121	0.07446	0.000	0.00
122	0.01886	0.000	0.00
123	0.08251	0.000	0.00
124	0.03870	0.000	0.00
125	-0.00964	0.000	0.00
126	0.12024	0.000	0.00
127	0.08606	0.000	0.00
128	0.06078	0.000	0.00

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130 -0.01410    0.000     0.00
131 -0.00386    0.000     0.00
132  0.01421    0.000     0.00
133  0.03494    0.000     0.00
134 39.23580    0.000     0.00
135  0.00009    0.000     0.00
136 -36.68778   0.000     0.00
137  0.07398    0.000     0.00
138 -0.23079    0.000     0.00
139  0.09306    0.000     0.00
140 -12.83460   0.000     0.00
141  0.06554    0.000     0.00
142 -9.88016    0.000     0.00
143  0.05595    0.000     0.00
144 -10.22465   0.000     0.00
145 -0.01773    0.000     0.00
146 -3.35205    0.000     0.00
147  0.05104    0.000     0.00
148 -3.43141    0.000     0.00
149  0.04181    0.000     0.00
150 -1.95707    0.000     0.00
151 -0.01034    0.000     0.00
152 -0.93717    0.000     0.00
153 -0.13829    0.000     0.00
154 -0.25992    0.000     0.00
155 -0.35574    0.000     0.00
156 -0.09060    0.000     0.00
157 -0.38049    0.000     0.00
158  0.16756    0.000     0.00
159 -0.29091    0.000     0.00
160 -0.00831    0.000     0.00
161 -0.24350    0.000     0.00
162 -0.23695    0.000     0.00
163 -0.22881    0.000     0.00
GHB CONDITIONS: NUMBS (I5)
  0
OBSERVED HEAD DATA(WELL NODEID,OBSERVED HEAD)(I10,F10.0)
 74
  22012 5143.500
  22025 5109.270
  22043 5092.420
  22049 5110.360
  22052 5090.940
  22054 5111.900
  23013 5141.020
  23058 5140.120
  23085 5139.600
  23096 5140.500
  23122 5136.300
  23134 5139.820
  23135 5145.000
  23150 5139.100
  23179 5140.260
  23182 5112.800
  23185 5144.700
  23188 5140.150
  23191 5140.370
  23223 5138.800
  24010 5140.200
  24092 5139.100
  24122 5157.060
  24200 5138.170
  25022 5213.780
  25028 5180.400
  26010 5161.950
  26015 5144.520
  26017 5145.190
  26020 5149.170
  26040 5147.030
  26041 5145.370
  26046 5145.300
  26049 5150.710
  26050 5156.970
  26062 5163.070
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  26076 5151.190
  26081 5148.000
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26088 5142.910
26124 5154.310
26133 5146.140
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26160 5143.900
26166 5151.440
26168 5155.510
26169 5148.090
26170 5140.770
26173 5147.710
27003 5097.700
27017 5148.100
27019 5148.530
27024 5125.800
27040 5120.800
27041 5113.700
27051 5128.300
27056 5098.400
27059 5127.300
27064 5093.690
27072 5095.800
27073 5097.900
27080 5120.000
27084 5136.400
35031 5174.210
35040 5165.080
35048 5216.780
35079 5197.980
35091 5182.200
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Appendix C
Transient Calibration Input File

```
WES MESH
 NTIM, NPMP,   PINT, PRINTIT, TIMX,   TINIT (2I5,F10.0,4X,A1,2F10.0)
  100  6   90.00  Y   1.500 3600.000
SIMULATION OPTION IFLAG1(I1)-(0=CONFINED,1=UNCONFINED&3=M ODIFIED ONE LAYER MODEL)
3
SIMULATION OPTION IFLAG2,TOL,RELAX (I1,2F10.0) - (0=GAUSS & 1=PISOR)
0 0.000000 0.000000
SIMULATION OPTION IFLAG3 (I1) - (0=GWFLOW DATA & 1=GWTRAN DATA)
0
NUMNP,NUMEL,IBAND (3I5)
 3359 6466  69
NODAL COORDINATES: FCTR (F10.0); NODE, X,Y  (3(I5,2F10.0))
  400.000
  1   0.000   17.540  2   0.432   17.169  3   0.800   18.411
  4   0.861   16.801  5   1.239   18.038  6   1.550   19.250
  7   1.287   16.435  8   1.676   17.666  9   1.991   18.875
  10  2.250   20.056  11  1.709   16.071  12  1.700   16.737
  13  2.432   18.500  14  2.689   19.681  15  2.900   20.830
  16  3.333   20.455  17  2.129   15.710  18  2.546   16.924
  19  2.500   17.490  20  3.130   19.303  21  3.769   20.076
  22  3.385   21.360  23  3.831   20.961  24  2.545   15.351
  25  2.979   16.556  26  3.315   17.749  27  3.648   18.770
  28  4.209   19.695  29  4.278   20.560  30  3.841   21.860
  31  4.299   21.437  32  2.958   14.995  33  3.410   16.188
  34  3.757   17.373  35  4.018   18.544  36  4.653   19.311
  37  4.729   20.157  38  4.759   21.014  39  4.267   22.330
  40  4.739   21.885  41  3.367   14.641  42  3.840   15.821
  43  4.199   16.997  44  4.464   18.163  45  5.100   18.924
  46  5.181   19.752  47  5.220   20.591  48  5.212   21.441
  49  4.663   22.771  50  5.150   22.304  51  3.774   14.290
  52  4.268   15.455  53  4.485   16.708  54  4.913   17.779
  55  5.551   18.535  56  5.637   19.346  57  5.683   20.166
  58  5.684   20.997  59  5.636   21.839  60  5.030   23.182
  61  5.253   22.980  62  4.177   13.941  63  4.695   15.091
  64  5.084   16.244  65  5.364   17.395  66  6.006   18.142
  67  6.094   18.938  68  6.147   19.741  69  6.157   20.552
  70  5.963   21.392  71  6.031   22.208  72  5.367   23.563
  73  5.884   23.054  74  4.577   13.594  75  5.120   14.727
  76  5.527   15.868  77  5.816   17.008  78  6.464   17.747
  79  6.555   18.528  80  6.612   19.315  81  6.630   20.109
  82  6.604   20.911  83  6.528   21.724  84  6.398   22.549
  85  5.674   23.915  86  6.208   23.386  87  4.974   13.250
  88  5.544   14.365  89  5.970   15.491  90  6.271   16.620
  91  6.926   17.349  92  7.017   18.116  93  7.305   19.052
  94  7.103   19.665  95  7.086   20.450  96  7.023   21.243
  97  6.908   22.046  98  6.736   22.861  99  5.952   24.237
  100 6.502   23.689  101 5.368   12.908  102 5.966   14.004
  103 6.413   15.114  104 6.727   16.231  105 6.200   24.530
  106 6.335   24.677  107 6.468   24.824  108 6.601   24.970
  109 6.733   25.115  110 6.864   25.259  111 6.993   25.403
  112 7.122   25.546  113 7.251   25.689  114 7.378   25.831
  115 7.504   25.972  116 7.629   26.112  117 7.754   26.252
  118 7.877   26.391  119 8.000   26.530  120 8.122   26.668
  121 8.242   26.805  122 8.362   26.942  123 8.481   27.078
  124 8.599   27.213  125 8.716   27.347  126 8.833   27.481
  127 8.948   27.614  128 9.062   27.747  129 9.176   27.879
  130 9.288   28.010  131 9.400   28.141  132 9.510   28.271
  133 9.620   28.400  134 10.123  28.982  135 10.618  29.553
  136 11.104  30.112  137 11.583  30.660  138 12.055  31.197
  139 12.518  31.722  140 12.973  32.236  141 13.420  32.739
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142	13.860	33.230	143	7.391	16.948	144	7.482	17.702
145	7.545	18.460	146	7.575	19.222	147	7.567	19.989
148	7.515	20.764	149	7.415	21.547	150	7.260	22.341
151	7.046	23.145	152	6.767	23.962	153	5.758	12.569
154	6.387	13.644	155	6.857	14.736	156	7.186	15.840
157	6.548	24.520	158	7.008	24.296	159	7.127	24.461
160	6.855	24.945	161	7.363	24.789	162	7.479	24.951
163	7.265	25.413	164	7.710	25.273	165	7.825	25.432
166	7.678	25.883	167	8.051	25.748	168	8.162	25.905
169	8.273	26.060	170	8.090	26.373	171	8.493	26.369
172	8.602	26.521	173	8.443	26.870	174	8.816	26.824
175	8.923	26.973	176	9.028	27.122	177	9.132	27.270
178	9.236	27.417	179	9.203	27.718	180	9.441	27.707
181	9.543	27.851	182	9.643	27.994	183	9.743	28.136
184	9.842	28.277	185	10.336	28.872	186	10.822	29.456
187	11.300	30.029	188	11.770	30.590	189	12.233	31.141
190	12.688	31.680	191	13.135	32.208	192	13.574	32.724
193	14.006	33.230	194	7.861	16.544	195	7.950	17.287
196	8.014	18.031	197	8.048	18.778	198	8.047	19.530
199	8.006	20.287	200	7.918	21.051	201	7.779	21.824
202	7.584	22.607	203	7.327	23.400	204	7.435	23.587
205	6.146	12.232	206	6.806	13.285	207	7.300	14.359
208	7.646	15.448	209	7.541	23.773	210	7.647	23.958
211	7.752	24.141	212	7.856	24.323	213	7.960	24.504
214	8.063	24.683	215	8.165	24.861	216	8.267	25.038
217	8.368	25.214	218	8.468	25.388	219	8.567	25.561
220	8.666	25.732	221	8.764	25.903	222	8.862	26.072
223	8.958	26.240	224	9.054	26.406	225	9.150	26.572
226	9.244	26.736	227	9.338	26.898	228	9.431	27.060
229	9.524	27.220	230	9.616	27.379	231	9.707	27.536
232	9.797	27.693	233	9.887	27.847	234	9.976	28.001
235	10.064	28.154	236	10.549	28.762	237	11.027	29.359
238	11.497	29.945	239	11.958	30.520	240	12.413	31.084
241	12.859	31.637	242	13.298	32.179	243	13.729	32.710
244	14.152	33.230	245	8.334	16.137	246	8.420	16.869
247	8.484	17.602	248	8.521	18.335	249	8.526	19.072
250	8.494	19.813	251	8.418	20.559	252	8.294	21.312
253	8.117	22.074	254	7.881	22.845	255	7.974	23.052
256	7.945	23.494	257	6.530	11.897	258	7.224	12.927
259	8.115	14.355	260	8.108	15.054	261	8.160	23.460
262	8.253	23.662	263	8.344	23.863	264	8.435	24.061
265	8.526	24.258	266	8.615	24.454	267	8.705	24.648
268	8.793	24.840	269	8.881	25.031	270	8.969	25.220
271	9.055	25.408	272	9.142	25.594	273	9.227	25.778
274	9.313	25.961	275	9.397	26.142	276	9.481	26.322
277	9.564	26.500	278	9.647	26.676	279	9.729	26.851
280	9.811	27.024	281	9.892	27.196	282	9.972	27.366
283	10.052	27.534	284	10.131	27.701	285	10.210	27.866
286	10.490	28.442	287	10.764	28.651	288	11.233	29.261
289	11.694	29.861	290	12.147	30.450	291	12.593	31.027
292	13.031	31.594	293	13.462	32.150	294	13.884	32.696
295	14.300	33.230	296	8.810	15.728	297	8.892	16.450
298	8.955	17.171	299	8.994	17.892	300	9.004	18.615
301	8.979	19.340	302	8.914	20.070	303	8.804	20.804
304	8.643	21.546	305	8.426	22.296	306	8.507	22.522
307	8.588	22.746	308	8.668	22.968	309	6.911	11.565
310	7.641	12.570	311	8.189	13.603	312	8.572	14.658
313	8.747	23.189	314	8.826	23.407	315	8.905	23.624
316	8.983	23.838	317	9.061	24.051	318	9.138	24.262
319	9.214	24.471	320	9.291	24.678	321	9.366	24.883
322	9.442	25.086	323	9.516	25.288	324	9.591	25.487
325	9.664	25.685	326	9.738	25.880	327	9.811	26.074
328	9.883	26.266	329	9.955	26.455	330	10.026	26.643
331	10.097	26.830	332	10.168	27.014	333	10.238	27.196
334	10.307	27.376	335	10.376	27.555	336	10.445	27.731
337	10.513	27.906	338	10.980	28.540	339	11.440	29.164
340	11.893	29.777	341	12.337	30.379	342	12.775	30.971
343	13.204	31.551	344	13.626	32.122	345	14.041	32.681
346	14.448	33.230	347	9.290	15.316	348	9.367	16.029
349	9.428	16.740	350	9.468	17.450	351	9.342	18.400
352	9.462	18.870	353	9.407	19.583	354	9.309	20.301
355	9.164	21.024	356	8.965	21.753	357	9.034	21.998
358	9.101	22.241	359	9.169	22.482	360	9.236	22.721
361	7.288	11.235	362	8.056	12.214	363	8.633	13.225
364	9.039	14.261	365	9.303	22.957	366	9.369	23.191
367	9.435	23.423	368	9.501	23.653	369	9.567	23.880
370	9.631	24.106	371	9.696	24.329	372	9.760	24.549
373	9.824	24.768	374	9.888	24.984	375	9.951	25.199
376	10.014	25.411	377	10.076	25.620	378	10.138	25.828
379	10.200	26.033	380	10.257	26.267	381	10.322	26.437
382	10.383	26.636	383	10.443	26.833	384	10.503	27.027
385	10.562	27.219	386	10.622	27.409	387	10.680	27.596
388	10.739	27.782	389	11.197	28.429	390	11.649	29.066

391	12.092	29.692	392	12.528	30.308	393	12.957	30.914
394	13.378	31.508	395	13.792	32.093	396	14.198	32.667
397	14.597	33.230	398	9.774	14.900	399	9.752	15.802
400	9.902	16.308	401	9.941	17.007	402	9.956	17.705
403	9.943	18.402	404	9.896	19.101	405	9.809	19.802
406	9.678	20.506	407	9.497	21.217	408	9.553	21.481
409	9.609	21.742	410	9.664	22.001	411	9.719	22.258
412	9.774	22.512	413	7.663	10.908	414	8.469	11.860
415	9.078	12.847	416	9.507	13.863	417	9.828	22.763
418	9.883	23.012	419	9.937	23.259	420	9.991	23.503
421	10.044	23.744	422	10.098	23.983	423	10.151	24.219
424	10.204	24.453	425	10.256	24.684	426	10.309	24.913
427	10.361	25.139	428	10.412	25.363	429	10.464	25.584
430	10.515	25.803	431	10.566	26.019	432	10.617	26.233
433	10.668	26.444	434	10.718	26.652	435	10.768	26.858
436	10.818	27.062	437	10.867	27.263	438	10.917	27.461
439	10.966	27.657	440	11.415	28.318	441	11.858	28.968
442	12.293	29.608	443	12.720	30.237	444	13.141	30.857
445	13.553	31.465	446	13.959	32.064	447	14.357	32.652
448	14.747	33.230	449	10.262	14.482	450	10.324	15.182
451	10.377	15.876	452	10.414	16.565	453	10.431	17.252
454	10.422	17.936	455	10.381	18.621	456	10.305	19.307
457	10.187	19.995	458	10.022	20.686	459	10.065	20.969
460	10.109	21.249	461	10.153	21.526	462	10.196	21.801
463	10.239	22.072	464	10.282	22.341	465	8.034	10.583
466	8.881	11.506	467	9.522	12.468	468	9.977	13.462
469	10.325	22.606	470	10.368	22.869	471	10.411	23.129
472	10.453	23.387	473	10.495	23.641	474	10.538	23.893
475	10.580	24.141	476	10.622	24.387	477	10.663	24.630
478	10.705	24.870	479	10.747	25.108	480	10.788	25.342
481	10.829	25.574	482	10.870	25.803	483	10.911	26.029
484	10.952	26.252	485	10.993	26.473	486	11.033	26.690
487	11.073	26.905	488	11.114	27.117	489	11.154	27.326
490	11.194	27.532	491	11.634	28.206	492	12.068	28.869
493	12.494	29.523	494	12.913	30.166	495	13.325	30.799
496	13.729	31.422	497	14.126	32.035	498	14.516	32.638
499	14.898	33.230	500	10.753	14.062	501	10.807	14.755
502	10.853	15.442	503	10.887	16.123	504	10.904	16.800
505	10.898	17.473	506	10.864	18.145	507	10.796	18.816
508	10.689	19.488	509	10.539	20.163	510	10.571	20.464
511	10.603	20.762	512	10.635	21.057	513	10.667	21.348
514	10.699	21.637	515	10.731	21.923	516	10.762	22.205
517	8.402	10.261	518	9.291	11.154	519	9.968	12.089
520	10.449	13.061	521	10.794	22.484	522	10.826	22.760
523	10.857	23.033	524	10.889	23.303	525	10.921	23.569
526	10.952	23.833	527	10.984	24.093	528	11.097	24.200
529	11.047	24.604	530	11.078	24.855	531	11.110	25.103
532	11.141	25.347	533	11.173	25.589	534	11.204	25.827
535	11.235	26.062	536	11.267	26.294	537	11.298	26.523
538	11.329	26.749	539	11.360	26.971	540	11.391	27.190
541	11.423	27.407	542	11.855	28.094	543	12.279	28.771
544	12.697	29.438	545	13.107	30.095	546	13.510	30.742
547	13.906	31.379	548	14.295	32.006	549	14.676	32.623
550	15.050	33.230	551	11.248	13.638	552	11.291	14.327
553	11.450	15.273	554	11.361	15.681	555	11.376	16.349
556	11.372	17.012	557	11.342	17.672	558	11.282	18.329
559	11.186	18.987	560	11.049	19.645	561	10.938	20.150
562	11.090	20.280	563	11.111	20.593	564	11.132	20.902
565	11.153	21.207	566	11.173	21.509	567	11.194	21.808
568	11.215	22.103	569	8.767	9.941	570	10.038	11.083
571	10.413	11.710	572	10.923	12.658	573	11.237	22.395
574	11.258	22.683	575	11.279	22.968	576	11.300	23.250
577	11.322	23.527	578	11.343	23.802	579	11.365	24.073
580	11.387	24.340	581	11.408	24.604	582	11.430	24.865
583	11.452	25.122	584	11.474	25.376	585	11.496	25.626
586	11.518	25.873	587	11.540	26.116	588	11.563	26.356
589	11.585	26.593	590	11.607	26.826	591	11.630	27.055
592	11.653	27.281	593	12.076	27.981	594	12.492	28.672
595	12.900	29.353	596	13.302	30.023	597	13.697	30.684
598	14.108	31.388	599	14.464	31.977	600	14.837	32.608
601	15.203	33.230	602	11.746	13.211	603	11.778	13.897
604	11.809	14.573	605	11.834	15.240	606	11.847	15.899
607	11.843	16.553	608	11.817	17.202	609	11.764	17.847
610	11.677	18.491	611	11.553	19.134	612	11.562	19.471
613	11.571	19.805	614	11.581	20.134	615	11.591	20.460
616	11.601	20.783	617	11.611	21.101	618	11.621	21.416
619	11.632	21.727	620	11.643	22.034	621	9.129	9.623
622	10.108	10.452	623	10.858	11.331	624	11.399	12.253
625	11.654	22.338	626	11.665	22.637	627	11.676	22.933
628	11.688	23.225	629	11.700	23.514	630	11.712	23.798
631	11.724	24.079	632	11.736	24.356	633	11.748	24.629
634	11.761	24.899	635	11.774	25.165	636	11.787	25.427
637	11.800	25.685	638	11.814	25.939	639	11.827	26.190

640	11.841	26.437	641	11.855	26.680	642	11.869	26.919
643	11.884	27.155	644	12.298	27.869	645	12.705	28.573
646	13.105	29.267	647	13.498	29.952	648	13.884	30.627
649	14.263	31.292	650	14.635	31.948	651	14.999	32.594
652	15.357	33.230	653	12.249	12.782	654	12.268	13.465
655	12.290	14.137	656	12.308	14.798	657	12.317	15.451
658	12.312	16.096	659	12.289	16.735	660	12.240	17.369
661	12.225	18.215	662	12.049	18.629	663	12.047	18.984
664	12.046	19.335	665	12.045	19.682	666	12.044	20.024
667	12.043	20.363	668	12.043	20.698	669	12.043	21.029
670	12.044	21.355	671	12.045	21.677	672	12.046	21.996
673	9.488	9.308	674	10.514	10.103	675	11.304	10.952
676	11.876	11.847	677	12.047	22.310	678	12.049	22.620
679	12.051	22.926	680	12.053	23.228	681	12.055	23.526
682	12.058	23.820	683	12.061	24.110	684	12.065	24.396
685	12.069	24.678	686	12.073	24.955	687	12.077	25.229
688	12.082	25.498	689	12.087	25.763	690	12.092	26.025
691	12.097	26.282	692	12.103	26.535	693	12.109	26.784
694	12.116	27.029	695	12.521	27.756	696	12.919	28.473
697	13.311	29.181	698	13.695	29.880	699	14.072	30.569
700	14.443	31.248	701	14.806	31.918	702	15.162	32.579
703	15.512	33.230	704	12.754	12.350	705	12.760	13.031
706	12.771	13.700	707	12.781	14.357	708	12.786	15.004
709	12.779	15.642	710	12.757	16.272	711	12.712	16.896
712	12.641	17.515	713	12.538	18.130	714	12.525	18.503
715	12.514	18.871	716	12.413	19.450	717	12.491	19.594
718	12.480	19.949	719	12.470	20.299	720	12.460	20.646
721	12.451	20.988	722	12.442	21.325	723	12.433	21.658
724	12.425	21.987	725	9.843	8.995	726	10.918	9.755
727	11.750	10.572	728	12.356	11.439	729	12.417	22.311
730	12.410	22.631	731	12.403	22.946	732	12.397	23.257
733	12.390	23.564	734	12.385	23.866	735	12.379	24.164
736	12.374	24.458	737	12.370	24.747	738	12.366	25.032
739	12.362	25.312	740	12.359	25.588	741	12.356	25.860
742	12.354	26.127	743	12.352	26.390	744	12.350	26.648
745	12.349	26.902	746	12.745	27.643	747	13.135	28.374
748	13.517	29.095	749	13.893	29.808	750	14.261	30.511
751	14.623	31.205	752	14.978	31.889	753	15.326	32.564
754	15.668	33.230	755	13.264	11.915	756	13.255	12.596
757	13.254	13.263	758	13.255	13.916	759	13.140	14.600
760	13.244	15.189	761	13.221	15.812	762	13.180	16.426
763	13.114	17.035	764	13.020	17.638	765	12.997	18.027
766	12.975	18.413	767	12.953	18.793	768	12.932	19.169
769	12.912	19.540	770	12.892	19.906	771	12.872	20.267
772	12.853	20.624	773	12.835	20.977	774	12.817	21.324
775	12.799	21.667	776	12.782	22.005	777	10.195	8.685
778	11.321	9.408	779	12.196	10.192	780	12.838	11.030
781	12.766	22.338	782	12.750	22.667	783	12.735	22.991
784	12.720	23.310	785	12.706	23.625	786	12.692	23.935
787	12.679	24.240	788	12.666	24.541	789	12.654	24.836
790	12.642	25.127	791	12.631	25.414	792	12.620	25.695
793	12.610	25.972	794	12.601	26.245	795	12.592	26.512
796	12.583	26.775	797	12.970	27.529	798	13.351	28.274
799	13.725	29.009	800	14.092	29.736	801	14.452	30.453
802	14.805	31.161	803	15.152	31.860	804	15.491	32.549
805	15.824	33.230	806	13.777	11.477	807	13.835	12.220
808	13.738	12.824	809	13.729	13.475	810	13.720	14.113
811	13.706	14.739	812	13.682	15.355	813	13.642	15.961
814	13.581	16.560	815	13.494	17.152	816	13.462	17.558
817	13.430	17.960	818	13.398	18.357	819	13.367	18.749
820	13.337	19.135	821	13.308	19.517	822	13.279	19.894
823	13.251	20.266	824	13.223	20.632	825	13.196	20.994
826	13.170	21.351	827	13.144	21.702	828	13.119	22.049
829	10.544	8.377	830	11.723	9.063	831	12.643	9.812
832	13.322	10.619	833	13.094	22.391	834	13.071	22.727
835	12.972	23.157	836	13.025	23.386	837	13.003	23.707
838	12.982	24.024	839	12.961	24.336	840	12.941	24.642
841	12.922	24.944	842	12.903	25.240	843	12.885	25.532
844	12.867	25.818	845	12.850	26.100	846	12.834	26.376
847	12.818	26.648	848	13.197	27.415	849	13.568	28.174
850	13.933	28.923	851	14.291	29.663	852	14.643	30.395
853	14.988	31.117	854	15.326	31.830	855	15.657	32.535
856	15.982	33.230	857	14.294	11.036	858	14.251	11.719
859	14.223	12.385	860	14.202	13.035	861	14.185	13.670
862	14.166	14.292	863	14.139	14.901	864	14.100	15.500
865	14.043	16.090	866	13.962	16.672	867	13.920	17.095
868	13.878	17.514	869	13.837	17.927	870	13.797	18.334
871	13.757	18.736	872	13.719	19.133	873	13.681	19.525
874	13.643	19.911	875	13.480	20.202	876	13.571	20.668
877	13.536	21.038	878	13.502	21.403	879	13.468	21.763
880	13.436	22.118	881	10.890	8.071	882	12.123	8.718
883	13.495	9.875	884	13.807	10.207	885	13.403	22.467
886	13.372	22.810	887	13.342	23.149	888	13.312	23.482

889 13.283 23.810 890 13.254 24.132 891 13.227 24.449
892 13.200 24.761 893 13.174 25.068 894 13.149 25.369
895 13.124 25.665 896 13.100 25.955 897 13.077 26.241
898 13.055 26.520 899 13.424 27.301 900 13.787 28.073
901 14.143 28.836 902 14.492 29.591 903 14.835 30.336
904 15.171 31.073 905 15.501 31.801 906 15.824 32.520
907 16.140 33.230 908 14.814 10.592 909 14.753 11.278
910 14.709 11.945 911 14.676 12.595 912 14.650 13.228
913 14.624 13.846 914 14.593 14.451 915 14.553 15.044
916 14.795 15.505 917 14.423 16.198 918 14.371 16.638
919 14.320 17.073 920 14.269 17.502 921 14.220 17.925
922 14.172 18.343 923 14.124 18.754 924 14.077 19.161
925 14.031 19.561 926 13.986 19.957 927 13.942 20.346
928 13.899 20.730 929 13.856 21.108 930 13.814 21.480
931 13.774 21.847 932 13.734 22.209 933 11.232 7.768
934 12.522 8.374 935 13.565 8.938 936 14.295 9.793
937 13.695 22.564 938 13.656 22.914 939 13.619 23.259
940 13.582 23.597 941 13.547 23.930 942 13.512 24.258
943 13.478 24.580 944 13.445 24.896 945 13.413 25.206
946 13.381 25.511 947 13.351 25.811 948 13.321 26.104
949 13.292 26.392 950 13.652 27.187 951 14.006 27.972
952 14.353 28.750 953 14.694 29.518 954 15.028 30.278
955 15.356 31.029 956 15.677 31.771 957 15.991 32.505
958 16.299 33.230 959 11.571 7.467 960 15.338 10.146
961 15.258 10.835 962 15.197 11.504 963 15.150 12.154
964 15.113 12.787 965 15.079 13.403 966 15.044 14.004
967 15.002 14.592 968 14.947 15.167 969 14.876 15.731
970 14.815 16.188 971 14.755 16.638 972 14.696 17.083
973 14.637 17.521 974 14.580 17.954 975 14.524 18.380
976 14.523 18.750 977 14.414 19.216 978 14.361 19.625
979 14.309 20.028 980 14.257 20.425 981 14.207 20.816
982 14.157 21.201 983 14.109 21.580 984 14.061 21.953
985 14.014 22.320 986 12.919 8.032 987 13.984 8.671
988 14.784 9.378 989 13.969 22.682 990 13.924 23.037
991 13.880 23.387 992 13.838 23.730 993 13.796 24.068
994 13.755 24.399 995 13.715 24.725 996 13.676 25.045
997 13.638 25.359 998 13.601 25.666 999 13.565 25.968
1000 13.530 26.264 1001 13.882 27.072 1002 14.227 27.872
1003 14.565 28.662 1004 14.897 29.445 1005 15.222 30.219
1006 15.541 30.984 1007 15.854 31.741 1008 16.160 32.490
1009 16.460 33.230 1010 11.908 7.169 1011 13.314 7.690
1012 15.866 9.697 1013 15.765 10.391 1014 15.686 11.063
1015 15.624 11.715 1016 15.575 12.347 1017 15.532 12.962
1018 15.490 13.560 1019 15.445 14.144 1020 15.391 14.713
1021 15.322 15.270 1022 15.252 15.743 1023 15.183 16.209
1024 15.183 16.955 1025 15.049 17.123 1026 14.983 17.570
1027 14.919 18.011 1028 14.855 18.446 1029 14.793 18.875
1030 14.731 19.297 1031 14.671 19.714 1032 14.612 20.123
1033 14.554 20.527 1034 14.497 20.925 1035 14.441 21.316
1036 14.386 21.701 1037 14.332 22.079 1038 14.279 22.452
1039 14.431 8.290 1040 15.276 8.961 1041 14.227 22.818
1042 14.220 23.155 1043 14.127 23.531 1044 14.079 23.879
1045 14.032 24.220 1046 13.985 24.555 1047 13.940 24.884
1048 13.896 25.206 1049 13.853 25.522 1050 13.811 25.832
1051 13.932 26.433 1052 14.112 26.957 1053 14.448 27.770
1054 14.778 28.575 1055 15.101 29.372 1056 15.417 30.160
1057 15.728 30.940 1058 16.032 31.712 1059 16.329 32.475
1060 16.621 33.230 1061 12.240 6.873 1062 13.708 7.350
1063 14.879 7.909 1064 16.398 9.244 1065 16.274 9.944
1066 16.176 10.620 1067 16.098 11.275 1068 16.035 11.909
1069 15.982 12.523 1070 15.934 13.120 1071 15.884 13.700
1072 15.829 14.265 1073 15.761 14.816 1074 15.683 15.304
1075 15.605 15.786 1076 15.529 16.261 1077 15.454 16.730
1078 15.380 17.192 1079 15.308 17.647 1080 15.236 18.096
1081 15.166 18.538 1082 15.097 18.974 1083 15.029 19.403
1084 14.963 19.826 1085 14.897 20.242 1086 14.833 20.651
1087 14.770 21.054 1088 14.708 21.451 1089 14.647 21.841
1090 14.587 22.224 1091 14.529 22.601 1092 15.769 8.542
1093 14.472 22.971 1094 14.416 23.334 1095 14.361 23.691
1096 14.307 24.042 1097 14.255 24.386 1098 14.204 24.723
1099 14.153 25.054 1100 14.105 25.378 1101 14.057 25.696
1102 14.010 26.007 1103 14.344 26.842 1104 14.670 27.669
1105 14.991 28.488 1106 15.305 29.299 1107 15.613 30.101
1108 15.915 30.896 1109 16.211 31.682 1110 16.500 32.460
1111 16.783 33.230 1112 12.570 6.580 1113 14.101 7.011
1114 15.326 7.527 1115 16.264 8.123 1116 12.897 6.289
1117 13.220 6.000 1118 16.933 8.789 1119 16.786 9.496
1120 16.667 10.177 1121 16.572 10.835 1122 16.495 11.471
1123 16.431 12.087 1124 16.373 12.682 1125 16.318 13.260
1126 16.260 13.822 1127 16.193 14.368 1128 16.107 14.871
1129 16.021 15.368 1130 15.937 15.859 1131 15.854 16.342
1132 15.772 16.818 1133 15.692 17.288 1134 15.613 17.750
1135 15.535 18.206 1136 15.458 18.655 1137 15.383 19.097

1138	15.309	19.532	1139	15.237	19.960	1140	15.166	20.382
1141	15.096	20.796	1142	15.027	21.204	1143	14.959	21.605
1144	14.893	21.998	1145	14.829	22.385	1146	14.765	22.766
1147	14.703	23.139	1148	14.642	23.505	1149	14.582	23.865
1150	14.524	24.217	1151	14.467	24.563	1152	14.411	24.902
1153	14.357	25.234	1154	14.304	25.559	1155	14.252	25.878
1156	14.576	26.726	1157	14.894	27.567	1158	15.206	28.400
1159	15.511	29.225	1160	15.811	30.042	1161	16.104	30.851
1162	16.391	31.652	1163	16.671	32.445	1164	16.946	33.230
1165	14.492	6.673	1166	15.774	7.146	1167	16.762	7.701
1168	17.471	8.332	1169	14.882	6.336	1170	15.270	6.000
1171	17.300	9.046	1172	17.160	9.733	1173	17.046	10.396
1174	16.954	11.035	1175	16.820	11.773	1176	16.810	12.248
1177	16.748	12.825	1178	16.686	13.384	1179	16.618	13.926
1180	16.670	14.417	1181	16.430	14.957	1182	16.338	15.462
1183	16.247	15.959	1184	16.158	16.450	1185	16.070	16.933
1186	15.984	17.409	1187	15.899	17.878	1188	15.815	18.340
1189	15.733	18.794	1190	15.652	19.242	1191	15.573	19.682
1192	15.495	20.115	1193	15.418	20.541	1194	15.343	20.959
1195	15.270	21.371	1196	15.197	21.775	1197	15.126	22.172
1198	15.057	22.562	1199	14.989	22.945	1200	14.922	23.320
1201	14.857	23.689	1202	14.793	24.050	1203	14.730	24.404
1204	14.669	24.751	1205	14.610	25.090	1206	14.551	25.423
1207	14.494	25.748	1208	14.809	26.611	1209	15.118	27.465
1210	15.421	28.312	1211	15.718	29.151	1212	16.009	29.983
1213	16.293	30.806	1214	16.571	31.622	1215	16.844	32.430
1216	17.110	33.230	1217	16.223	6.764	1218	17.261	7.278
1219	18.014	7.871	1220	17.817	8.594	1221	16.671	6.382
1222	17.120	6.000	1223	17.654	9.288	1224	17.521	9.957
1225	17.411	10.600	1226	17.320	11.220	1227	17.242	11.818
1228	17.173	12.394	1229	17.106	12.951	1230	17.036	13.490
1231	16.934	14.024	1232	16.833	14.551	1233	16.733	15.070
1234	16.635	15.582	1235	16.538	16.087	1236	16.443	16.583
1237	16.350	17.073	1238	16.258	17.555	1239	16.168	18.029
1240	16.079	18.496	1241	15.991	18.955	1242	15.757	19.500
1243	15.821	19.852	1244	15.738	20.288	1245	15.657	20.718
1246	15.577	21.140	1247	15.499	21.554	1248	15.422	21.961
1249	15.347	22.361	1250	15.273	22.752	1251	15.201	23.137
1252	15.130	23.514	1253	15.061	23.883	1254	14.993	24.245
1255	14.927	24.600	1256	14.863	24.947	1257	14.800	25.286
1258	14.738	25.618	1259	15.044	26.494	1260	15.344	27.363
1261	15.638	28.224	1262	15.926	29.078	1263	16.208	29.923
1264	16.483	30.761	1265	16.753	31.592	1266	17.017	32.415
1267	17.274	33.230	1268	17.762	6.854	1269	18.560	7.408
1270	18.336	8.140	1271	18.149	8.843	1272	18.265	6.428
1273	18.770	6.000	1274	17.995	9.518	1275	17.867	10.167
1276	17.761	10.790	1277	17.672	11.390	1278	17.593	11.968
1279	17.520	12.524	1280	17.447	13.061	1281	17.337	13.610
1282	17.229	14.151	1283	17.122	14.685	1284	17.017	15.211
1285	16.913	15.729	1286	16.811	16.239	1287	16.711	16.741
1288	16.612	17.236	1289	16.515	17.722	1290	16.420	18.201
1291	16.326	18.672	1292	16.234	19.136	1293	16.144	19.591
1294	16.055	20.039	1295	15.968	20.479	1296	15.882	20.911
1297	15.798	21.335	1298	15.716	21.752	1299	15.635	22.161
1300	15.556	22.562	1301	15.479	22.955	1302	15.403	23.340
1303	15.329	23.718	1304	15.256	24.087	1305	15.186	24.449
1306	15.116	24.803	1307	15.049	25.149	1308	14.983	25.488
1309	15.280	26.378	1310	15.570	27.261	1311	15.855	28.136
1312	16.134	29.003	1313	16.407	29.864	1314	16.675	30.716
1315	16.936	31.562	1316	17.191	32.400	1317	17.440	33.230
1318	19.080	6.648	1319	18.858	7.684	1320	18.646	8.396
1321	18.469	9.079	1322	19.663	6.472	1323	20.220	6.000
1324	18.323	9.734	1325	18.200	10.363	1326	18.097	10.966
1327	18.008	11.545	1328	17.928	12.102	1329	17.850	12.638
1330	17.733	13.201	1331	17.618	13.757	1332	17.504	14.305
1333	17.392	14.844	1334	17.282	15.376	1335	17.174	15.899
1336	17.067	16.414	1337	16.962	16.921	1338	16.859	17.420
1339	16.757	17.911	1340	16.692	18.190	1341	16.560	18.868
1342	16.463	19.334	1343	16.369	19.793	1344	16.276	20.243
1345	16.185	20.685	1346	16.096	21.119	1347	16.008	21.545
1348	15.922	21.963	1349	15.838	22.372	1350	15.756	22.774
1351	15.675	23.167	1352	15.597	23.553	1353	15.519	23.930
1354	15.444	24.299	1355	15.370	24.660	1356	15.299	25.013
1357	15.228	25.357	1358	15.516	26.261	1359	15.798	27.158
1360	16.074	28.047	1361	16.344	28.929	1362	16.608	29.804
1363	16.867	30.671	1364	17.119	31.532	1365	17.366	32.384
1366	17.607	33.230	1367	19.382	7.227	1368	19.144	7.949
1369	18.944	8.641	1370	18.778	9.307	1371	19.908	6.767
1372	20.437	6.306	1373	20.782	6.000	1374	18.637	9.937
1375	18.519	10.545	1376	18.419	11.127	1377	18.330	11.685
1378	18.247	12.221	1379	18.123	12.799	1380	18.001	13.369
1381	17.881	13.930	1382	17.762	14.483	1383	17.646	15.028
1384	17.531	15.564	1385	17.418	16.092	1386	17.307	16.611

1387 17.198 17.122 1388 17.090 17.624 1389 16.985 18.118
1390 16.881 18.604 1391 16.780 19.081 1392 16.680 19.549
1393 16.582 20.010 1394 16.485 20.462 1395 16.391 20.905
1396 16.255 21.220 1397 16.208 21.767 1398 16.119 22.185
1399 16.032 22.594 1400 15.947 22.996 1401 15.864 23.389
1402 15.782 23.773 1403 15.703 24.149 1404 15.625 24.517
1405 15.549 24.876 1406 15.475 25.227 1407 15.754 26.144
1408 16.027 27.055 1409 16.294 27.958 1410 16.555 28.855
1411 16.810 29.744 1412 17.060 30.626 1413 17.304 31.501
1414 17.542 32.369 1415 17.774 33.230 1416 19.643 7.501
1417 19.418 8.202 1418 19.230 8.873 1419 19.071 9.514
1420 20.143 7.052 1421 20.645 6.602 1422 20.989 6.309
1423 21.353 6.000 1424 18.938 10.127 1425 18.825 10.713
1426 18.726 11.274 1427 18.636 11.810 1428 18.506 12.403
1429 18.513 13.180 1430 18.251 13.561 1431 18.126 14.128
1432 18.003 14.685 1433 17.882 15.234 1434 17.764 15.774
1435 17.647 16.305 1436 17.532 16.827 1437 17.419 17.341
1438 17.308 17.846 1439 17.199 18.343 1440 17.092 18.830
1441 16.987 19.309 1442 16.884 19.779 1443 16.783 20.240
1444 16.684 20.693 1445 16.587 21.137 1446 16.492 21.572
1447 16.398 21.999 1448 16.307 22.416 1449 16.218 22.825
1450 16.130 23.225 1451 16.045 23.617 1452 15.961 24.000
1453 15.880 24.374 1454 15.800 24.739 1455 15.723 25.095
1456 15.992 26.027 1457 16.256 26.952 1458 16.514 27.869
1459 16.766 28.780 1460 17.013 29.684 1461 17.254 30.581
1462 17.489 31.471 1463 17.719 32.354 1464 17.943 33.230
1465 19.893 7.764 1466 20.368 7.327 1467 19.681 8.444
1468 19.503 9.093 1469 19.353 9.713 1470 20.842 6.889
1471 21.187 6.608 1472 21.549 6.312 1473 21.934 6.000
1474 19.226 10.304 1475 19.116 10.868 1476 19.018 11.406
1477 18.882 12.013 1478 18.747 12.610 1479 18.614 13.198
1480 18.484 13.777 1481 18.355 14.347 1482 18.229 14.909
1483 18.104 15.461 1484 17.982 16.004 1485 17.862 16.538
1486 17.744 17.062 1487 17.628 17.578 1488 17.514 18.085
1489 17.402 18.583 1490 17.292 19.072 1491 17.184 19.551
1492 17.078 20.022 1493 16.975 20.483 1494 16.873 20.936
1495 16.774 21.380 1496 16.676 21.814 1497 16.581 22.239
1498 16.488 22.656 1499 16.397 23.063 1500 16.307 23.461
1501 16.220 23.850 1502 16.135 24.231 1503 16.053 24.602
1504 15.972 24.964 1505 16.232 25.909 1506 16.487 26.848
1507 16.736 27.780 1508 16.979 28.706 1509 17.217 29.624
1510 17.449 30.536 1511 17.676 31.441 1512 17.897 32.339
1513 18.112 33.230 1514 20.132 8.017 1515 20.581 7.591
1516 21.030 7.165 1517 19.933 8.675 1518 19.765 9.301
1519 19.622 9.898 1520 21.376 6.896 1521 21.737 6.614
1522 22.119 6.316 1523 22.525 6.000 1524 19.500 10.467
1525 19.394 11.008 1526 19.251 11.628 1527 19.110 12.239
1528 18.972 12.840 1529 18.836 13.432 1530 18.702 14.015
1531 18.570 14.588 1532 18.440 15.152 1533 18.313 15.707
1534 18.187 16.252 1535 18.064 16.788 1536 17.943 17.314
1537 17.825 17.831 1538 17.708 18.339 1539 17.594 18.837
1540 17.481 19.326 1541 17.371 19.806 1542 17.264 20.276
1543 17.158 20.737 1544 17.054 21.189 1545 16.953 21.631
1546 16.854 22.064 1547 16.757 22.487 1548 16.662 22.902
1549 16.570 23.306 1550 16.480 23.702 1551 16.391 24.088
1552 16.305 24.465 1553 16.222 24.832 1554 16.473 25.792
1555 16.718 26.745 1556 16.958 27.691 1557 17.193 28.631
1558 17.422 29.564 1559 17.645 30.490 1560 17.863 31.410
1561 18.076 32.323 1562 18.282 33.230 1563 20.360 8.258
1564 20.785 7.844 1565 21.208 7.432 1566 21.555 7.173
1567 20.173 8.893 1568 20.014 9.497 1569 19.879 10.071
1570 21.917 6.903 1571 22.297 6.619 1572 22.698 6.319
1573 23.126 6.000 1574 20.251 9.681 1575 19.762 10.617
1576 19.613 11.250 1577 19.467 11.874 1578 19.323 12.488
1579 19.182 13.093 1580 19.042 13.688 1581 18.905 14.273
1582 18.771 14.848 1583 18.638 15.414 1584 18.508 15.970
1585 18.380 16.517 1586 18.255 17.053 1587 18.132 17.581
1588 18.011 18.098 1589 17.892 18.606 1590 17.776 19.104
1591 17.662 19.592 1592 17.550 20.071 1593 17.441 20.540
1594 17.334 21.000 1595 17.229 21.450 1596 17.126 21.890
1597 17.026 22.320 1598 16.928 22.741 1599 16.832 23.152
1600 16.739 23.553 1601 16.648 23.945 1602 16.559 24.327
1603 16.473 24.700 1604 16.714 25.673 1605 16.951 26.641
1606 17.182 27.601 1607 17.407 28.556 1608 17.628 29.503
1609 17.842 30.445 1610 18.051 31.380 1611 18.255 32.308
1612 18.454 33.230 1613 20.577 8.489 1614 20.978 8.087
1615 21.376 7.689 1616 21.725 7.440 1617 22.088 7.181
1618 20.401 9.100 1619 20.122 10.232 1620 22.466 6.910
1621 22.864 6.625 1622 23.286 6.322 1623 23.736 6.000
1624 20.618 9.296 1625 20.476 9.853 1626 20.823 9.480
1627 19.969 10.878 1628 19.817 11.515 1629 19.668 12.142
1630 19.522 12.759 1631 19.377 13.365 1632 19.236 13.962
1633 19.096 14.549 1634 18.959 15.126 1635 18.825 15.693

1636 18.692 16.250 1637 18.563 16.796 1638 18.435 17.333
1639 18.310 17.860 1640 18.188 18.377 1641 18.068 18.884
1642 18.080 19.295 1643 17.835 19.868 1644 17.722 20.345
1645 17.611 20.813 1646 17.503 21.270 1647 17.397 21.717
1648 17.294 22.154 1649 17.193 22.581 1650 17.094 22.998
1651 16.998 23.406 1652 16.905 23.803 1653 16.813 24.190
1654 16.724 24.567 1655 16.957 25.555 1656 17.185 26.536
1657 17.406 27.511 1658 17.623 28.480 1659 17.834 29.443
1660 18.040 30.399 1661 18.241 31.349 1662 18.436 32.293
1663 18.626 33.230 1664 20.783 8.708 1665 21.161 8.320
1666 21.534 7.936 1667 21.887 7.696 1668 22.250 7.448
1669 22.627 7.189 1670 20.978 8.916 1671 20.317 10.512
1672 23.023 6.917 1673 23.440 6.630 1674 23.883 6.325
1675 24.356 6.000 1676 21.162 9.114 1677 20.659 10.152
1678 20.994 9.799 1679 21.322 9.451 1680 20.161 11.162
1681 20.007 11.801 1682 19.856 12.430 1683 19.707 13.048
1684 19.560 13.656 1685 19.417 14.254 1686 19.275 14.842
1687 19.136 15.419 1688 19.000 15.986 1689 18.866 16.543
1690 18.735 17.090 1691 18.606 17.626 1692 18.480 18.152
1693 18.357 18.668 1694 18.235 19.173 1695 18.117 19.668
1696 18.001 20.153 1697 17.887 20.627 1698 17.776 21.091
1699 17.667 21.545 1700 17.561 21.989 1701 17.458 22.422
1702 17.357 22.845 1703 17.258 23.258 1704 17.162 23.660
1705 17.068 24.053 1706 16.978 24.435 1707 17.201 25.436
1708 17.419 26.432 1709 17.632 27.421 1710 17.840 28.405
1711 18.042 29.382 1712 18.239 30.353 1713 18.431 31.318
1714 18.617 32.277 1715 18.799 33.230 1716 21.333 8.542
1717 21.682 8.173 1718 22.039 7.941 1719 22.404 7.703
1720 22.781 7.456 1721 23.174 7.197 1722 21.495 8.754
1723 20.498 10.814 1724 23.588 6.924 1725 24.025 6.636
1726 24.490 6.328 1727 24.986 6.000 1728 20.829 10.473
1729 21.153 10.137 1730 21.644 9.109 1731 21.470 9.807
1732 21.890 8.526 1733 21.725 9.218 1734 21.958 8.648
1735 20.340 11.466 1736 20.184 12.106 1737 20.030 12.736
1738 19.880 13.356 1739 19.732 13.964 1740 19.587 14.563
1741 19.444 15.150 1742 19.304 15.727 1743 19.188 16.142
1744 19.032 16.850 1745 18.899 17.395 1746 18.770 17.929
1747 18.643 18.453 1748 18.518 18.967 1749 18.397 19.470
1750 18.278 19.962 1751 18.161 20.444 1752 18.047 20.915
1753 17.936 21.375 1754 17.828 21.825 1755 17.722 22.264
1756 17.619 22.693 1757 17.518 23.111 1758 17.420 23.518
1759 17.324 23.915 1760 17.232 24.301 1761 17.327 25.140
1762 17.655 26.327 1763 17.859 27.331 1764 18.057 28.329
1765 18.251 29.321 1766 18.439 30.307 1767 18.622 31.287
1768 18.800 32.262 1769 18.973 33.230 1770 21.820 8.400
1771 22.181 8.176 1772 22.549 7.947 1773 22.927 7.710
1774 23.319 7.464 1775 23.729 7.205 1776 20.666 11.136
1777 24.161 6.932 1778 24.618 6.641 1779 25.105 6.331
1780 25.626 6.000 1781 20.986 10.812 1782 21.300 10.493
1783 21.563 9.899 1784 21.805 9.322 1785 22.026 8.767
1786 26.276 6.000 1787 26.935 6.000 1788 27.604 6.000
1789 28.283 6.000 1790 28.972 6.000 1791 29.670 6.000
1792 21.820 8.400 1793 20.506 11.788 1794 20.349 12.429
1795 20.194 13.060 1796 20.042 13.679 1797 19.893 14.288
1798 19.747 14.885 1799 19.603 15.472 1800 19.462 16.048
1801 19.324 16.613 1802 19.189 17.167 1803 19.056 17.710
1804 18.926 18.242 1805 18.799 18.763 1806 18.675 19.274
1807 18.553 19.773 1808 18.434 20.262 1809 18.318 20.739
1810 18.204 21.206 1811 18.063 21.675 1812 17.986 22.107
1813 17.880 22.541 1814 17.778 22.964 1815 17.678 23.376
1816 17.581 23.778 1817 17.487 24.168 1818 17.692 25.198
1819 17.891 26.222 1820 18.086 27.241 1821 18.276 28.253
1822 18.460 29.260 1823 18.640 30.261 1824 18.814 31.257
1825 18.983 32.246 1826 19.148 33.230 1827 22.315 8.400
1828 22.685 8.179 1829 23.065 7.952 1830 23.456 7.717
1831 23.863 7.472 1832 24.290 7.213 1833 20.822 11.475
1834 24.741 6.939 1835 25.220 6.647 1836 25.730 6.335
1837 21.132 11.168 1838 21.404 10.569 1839 21.655 9.987
1840 21.920 9.232 1841 22.091 8.882 1842 26.364 6.338
1843 27.007 6.341 1844 27.659 6.344 1845 28.320 6.347
1846 28.990 6.350 1847 29.670 6.354 1848 22.037 8.787
1849 20.661 12.128 1850 20.503 12.769 1851 20.347 13.399
1852 20.195 14.017 1853 20.045 14.625 1854 19.898 15.221
1855 19.754 15.806 1856 19.613 16.380 1857 19.475 16.942
1858 19.340 17.493 1859 19.167 18.202 1860 19.077 18.563
1861 18.950 19.080 1862 18.826 19.587 1863 18.705 20.082
1864 18.587 20.566 1865 18.471 21.039 1866 18.359 21.500
1867 18.249 21.951 1868 18.142 22.390 1869 18.038 22.818
1870 17.937 23.234 1871 17.838 23.640 1872 17.743 24.034
1873 17.939 25.078 1874 18.129 26.117 1875 18.315 27.150
1876 18.495 28.177 1877 18.671 29.199 1878 18.842 30.215
1879 19.007 31.226 1880 19.168 32.231 1881 19.323 33.230
1882 22.568 9.070 1883 22.814 8.400 1884 23.194 8.182

1885	23.586	7.958	1886	23.991	7.724	1887	24.414	7.480
1888	24.859	7.221	1889	20.968	11.831	1890	25.330	6.946
1891	25.830	6.652	1892	21.248	11.229	1893	21.507	10.642
1894	21.746	10.072	1895	21.992	9.345	1896	22.156	8.994
1897	26.449	6.658	1898	27.076	6.663	1899	27.712	6.669
1900	28.356	6.674	1901	29.009	6.680	1902	29.670	6.685
1903	22.240	9.137	1904	20.806	12.482	1905	20.647	13.123
1906	20.492	13.751	1907	20.339	14.368	1908	20.189	14.973
1909	20.043	15.567	1910	19.899	16.150	1911	19.758	16.721
1912	19.620	17.280	1913	19.485	17.828	1914	19.353	18.364
1915	19.224	18.889	1916	19.098	19.402	1917	18.975	19.904
1918	18.855	20.394	1919	18.737	20.873	1920	18.623	21.340
1921	18.512	21.795	1922	18.404	22.239	1923	18.298	22.672
1924	18.196	23.093	1925	18.096	23.502	1926	18.000	23.900
1927	18.186	24.958	1928	18.368	26.011	1929	18.544	27.059
1930	18.716	28.101	1931	18.883	29.138	1932	19.198	30.540
1933	19.201	31.195	1934	19.353	32.215	1935	19.500	33.230
1936	22.713	9.305	1937	23.020	8.787	1938	23.316	8.400
1939	23.708	8.185	1940	24.112	7.963	1941	24.532	7.732
1942	24.971	7.487	1943	25.435	7.229	1944	21.095	11.878
1945	25.926	6.953	1946	21.363	11.287	1947	21.609	10.711
1948	21.835	10.153	1949	22.064	9.459	1950	22.219	9.102
1951	26.530	6.960	1952	27.143	6.967	1953	27.763	6.974
1954	28.391	6.981	1955	29.026	6.988	1956	29.670	6.996
1957	22.430	9.450	1958	19.680	33.300	1959	19.860	33.371
1960	20.944	12.517	1961	20.797	13.145	1962	20.652	13.763
1963	20.510	14.370	1964	20.371	14.966	1965	20.235	15.552
1966	20.102	16.127	1967	19.971	16.692	1968	19.844	17.247
1969	19.719	17.790	1970	19.597	18.323	1971	19.479	18.846
1972	19.362	19.358	1973	19.249	19.859	1974	19.139	20.350
1975	19.032	20.830	1976	18.927	21.300	1977	18.825	21.759
1978	18.726	22.208	1979	18.853	22.728	1980	18.537	23.074
1981	18.447	23.491	1982	18.360	23.897	1983	18.526	24.959
1984	18.687	26.016	1985	18.843	27.070	1986	18.995	28.119
1987	19.141	29.163	1988	19.283	30.204	1989	19.421	31.240
1990	19.553	32.273	1991	22.858	9.538	1992	23.214	9.137
1993	23.635	8.910	1994	23.823	8.400	1995	24.226	8.189
1996	24.644	7.969	1997	25.079	7.739	1998	25.536	7.495
1999	26.018	7.237	2000	21.221	11.922	2001	21.476	11.342
2002	21.710	10.777	2003	21.923	10.231	2004	22.137	9.573
2005	22.281	9.206	2006	26.609	7.244	2007	27.206	7.252
2008	27.811	7.260	2009	28.424	7.268	2010	29.043	7.276
2011	29.670	7.284	2012	22.607	9.727	2013	19.752	32.330
2014	20.038	33.441	2015	19.952	32.958	2016	20.215	33.510
2017	21.081	12.548	2018	20.945	13.165	2019	20.811	13.772
2020	20.680	14.369	2021	20.552	14.957	2022	20.427	15.535
2023	20.304	16.103	2024	20.184	16.662	2025	20.067	17.211
2026	19.953	17.751	2027	19.841	18.281	2028	19.733	18.802
2029	19.627	19.313	2030	19.523	19.814	2031	19.423	20.306
2032	19.325	20.788	2033	19.230	21.260	2034	19.138	21.723
2035	19.049	22.177	2036	18.962	22.620	2037	18.878	23.055
2038	18.797	23.479	2039	18.719	23.894	2040	18.865	24.959
2041	19.005	26.021	2042	19.142	27.080	2043	19.273	28.136
2044	19.400	29.189	2045	19.522	30.239	2046	19.639	31.286
2047	23.089	9.727	2048	23.398	9.450	2049	23.704	9.137
2050	24.014	8.787	2051	24.334	8.400	2052	24.750	8.192
2053	25.181	7.975	2054	25.632	7.746	2055	26.106	7.503
2056	21.345	11.964	2057	21.589	11.394	2058	21.810	10.840
2059	22.010	10.306	2060	22.197	9.671	2061	22.342	9.306
2062	26.684	7.511	2063	27.268	7.519	2064	27.858	7.527
2065	28.456	7.535	2066	29.060	7.543	2067	29.670	7.551
2068	22.770	9.967	2069	19.857	31.331	2070	20.147	32.444
2071	20.074	31.377	2072	20.391	33.580	2073	20.330	33.123
2074	20.566	33.649	2075	21.217	12.577	2076	21.092	13.182
2077	20.970	13.778	2078	20.850	14.366	2079	20.732	14.945
2080	20.618	15.515	2081	20.506	16.077	2082	20.396	16.630
2083	20.290	17.174	2084	20.186	17.710	2085	20.085	18.237
2086	19.986	18.756	2087	19.890	19.266	2088	19.797	19.767
2089	19.707	20.260	2090	19.619	20.744	2091	19.585	21.310
2092	19.451	21.687	2093	19.371	22.145	2094	19.294	22.594
2095	19.220	23.035	2096	19.148	23.468	2097	19.079	23.892
2098	19.204	24.960	2099	19.324	26.026	2100	19.440	27.091
2101	19.551	28.154	2102	19.657	29.215	2103	19.759	30.274
2104	23.251	9.967	2105	23.569	9.727	2106	23.881	9.450
2107	24.194	9.137	2108	24.514	8.787	2109	24.850	8.400
2110	25.277	8.195	2111	25.723	7.980	2112	26.191	7.753
2113	21.469	12.002	2114	21.700	11.442	2115	21.909	10.900
2116	22.095	10.377	2117	22.258	9.770	2118	22.401	9.403
2119	26.756	7.760	2120	27.326	7.767	2121	27.903	7.774
2122	28.486	7.781	2123	29.075	7.788	2124	29.670	7.796
2125	22.920	10.170	2126	19.996	30.309	2127	20.290	31.422
2128	20.232	30.344	2129	20.538	32.557	2130	20.505	31.467
2131	20.740	33.718	2132	20.732	32.614	2133	22.459	9.496

2134 22.874 10.110 2135 22.515 9.586 2136 22.827 10.046
2137 22.571 9.671 2138 22.778 9.978 2139 22.624 9.754
2140 22.728 9.907 2141 22.677 9.832 2142 21.353 12.603
2143 21.238 13.197 2144 21.127 13.782 2145 21.018 14.360
2146 20.912 14.931 2147 20.808 15.493 2148 20.707 16.049
2149 20.608 16.596 2150 20.512 17.136 2151 20.419 17.668
2152 20.328 18.192 2153 20.239 18.709 2154 20.154 19.218
2155 20.071 19.720 2156 19.990 20.214 2157 19.912 20.700
2158 19.837 21.178 2159 19.764 21.649 2160 19.694 22.113
2161 19.626 22.568 2162 19.561 23.016 2163 19.499 23.457
2164 19.439 23.889 2165 19.543 24.961 2166 19.642 26.032
2167 19.737 27.102 2168 19.828 28.172 2169 19.914 29.241
2170 23.729 9.967 2171 23.401 10.170 2172 24.048 9.727
2173 24.365 9.450 2174 24.686 9.137 2175 25.018 8.787
2176 25.369 8.400 2177 25.880 8.285 2178 26.271 7.986
2179 21.592 12.038 2180 21.810 11.488 2181 22.006 10.956
2182 22.180 10.445 2183 22.318 9.868 2184 26.824 7.991
2185 27.383 7.997 2186 27.946 8.002 2187 28.516 8.008
2188 29.090 8.013 2189 29.670 8.019 2190 22.929 10.733
2191 22.973 10.567 2192 20.171 29.266 2193 20.468 30.379
2194 20.427 29.292 2195 20.719 31.512 2196 20.703 30.414
2197 20.913 33.787 2198 20.913 33.398 2199 20.933 31.557
2200 22.379 9.967 2201 22.855 10.473 2202 22.439 10.065
2203 22.794 10.421 2204 22.499 10.164 2205 22.732 10.365
2206 22.559 10.263 2207 22.620 10.362 2208 21.085 33.856
2209 21.487 12.626 2210 21.384 13.208 2211 21.283 13.784
2212 21.185 14.352 2213 21.090 14.914 2214 20.990 15.490
2215 20.907 16.018 2216 20.819 16.560 2217 20.733 17.095
2218 20.650 17.624 2219 20.570 18.146 2220 20.492 18.661
2221 20.417 19.170 2222 20.344 19.671 2223 20.273 20.166
2224 20.205 20.655 2225 20.140 21.137 2226 20.077 21.612
2227 20.016 22.080 2228 19.958 22.542 2229 19.902 22.997
2230 19.849 23.445 2231 19.799 23.887 2232 19.882 24.962
2233 19.960 26.037 2234 20.035 27.113 2235 20.105 28.189
2236 23.878 10.170 2237 24.204 9.967 2238 23.450 10.564
2239 24.525 9.727 2240 24.848 9.450 2241 25.178 9.137
2242 25.524 8.787 2243 25.892 8.400 2244 26.347 8.201
2245 21.714 12.070 2246 21.919 11.530 2247 22.102 11.009
2248 22.263 10.510 2249 26.889 8.204 2250 27.436 8.208
2251 27.987 8.211 2252 28.544 8.214 2253 29.104 8.217
2254 29.670 8.220 2255 22.956 10.939 2256 22.884 10.905
2257 23.027 10.970 2258 20.382 28.207 2259 20.682 29.318
2260 20.658 28.225 2261 20.937 30.448 2262 20.937 29.343
2263 21.117 32.726 2264 21.145 31.602 2265 21.170 30.483
2266 22.345 10.571 2267 22.811 10.868 2268 22.426 10.629
2269 22.736 10.827 2270 22.505 10.684 2271 22.661 10.782
2272 22.583 10.735 2273 21.255 33.924 2274 21.308 32.782
2275 21.620 12.647 2276 21.528 13.217 2277 21.439 13.783
2278 21.352 14.342 2279 21.268 14.896 2280 21.186 15.444
2281 21.106 15.986 2282 21.029 16.522 2283 20.954 17.053
2284 20.882 17.578 2285 20.812 18.098 2286 20.744 18.612
2287 20.679 19.120 2288 20.616 19.622 2289 20.556 20.118
2290 20.498 20.609 2291 20.442 21.094 2292 20.389 21.574
2293 20.485 22.243 2294 20.290 22.515 2295 20.244 22.978
2296 20.200 23.434 2297 20.159 23.885 2298 20.221 24.963
2299 20.279 26.043 2300 20.368 27.295 2301 23.922 10.562
2302 24.350 10.170 2303 24.676 9.967 2304 23.499 10.965
2305 25.001 9.727 2306 25.331 9.450 2307 25.672 9.137
2308 26.033 8.787 2309 26.420 8.400 2310 21.834 12.100
2311 22.027 11.570 2312 22.197 11.059 2313 26.951 8.400
2314 27.487 8.400 2315 28.026 8.400 2316 28.570 8.400
2317 29.118 8.400 2318 29.670 8.400 2319 23.000 11.363
2320 22.915 11.342 2321 22.829 11.318 2322 23.083 11.381
2323 20.629 27.135 2324 20.933 28.243 2325 20.926 27.146
2326 21.191 29.369 2327 21.208 28.261 2328 21.357 31.646
2329 21.403 30.517 2330 21.445 29.395 2331 22.291 11.106
2332 22.743 11.291 2333 22.384 11.150 2334 22.655 11.261
2335 22.475 11.190 2336 22.566 11.227 2337 21.425 33.992
2338 21.425 33.608 2339 21.568 31.691 2340 21.593 34.060
2341 21.752 12.664 2342 21.671 13.224 2343 21.594 13.779
2344 21.518 14.329 2345 21.445 14.875 2346 21.374 15.416
2347 21.305 15.952 2348 21.239 16.483 2349 21.175 17.010
2350 21.113 17.531 2351 21.053 18.048 2352 20.996 18.561
2353 20.941 19.068 2354 20.889 19.571 2355 20.838 20.069
2356 20.790 20.563 2357 20.745 21.051 2358 20.701 21.535
2359 20.660 22.014 2360 20.622 22.489 2361 20.585 22.958
2362 20.551 23.423 2363 20.519 23.883 2364 20.560 24.964
2365 20.596 26.048 2366 23.967 10.960 2367 24.390 10.559
2368 24.818 10.170 2369 25.146 9.967 2370 23.550 11.373
2371 25.475 9.727 2372 25.814 9.450 2373 26.168 9.137
2374 26.545 8.787 2375 21.954 12.126 2376 22.134 11.606
2377 27.059 8.787 2378 27.576 8.787 2379 28.095 8.787
2380 28.618 8.787 2381 29.142 8.787 2382 29.670 8.787

2383 23.044 11.793 2384 22.947 11.784 2385 22.849 11.773
2386 22.751 11.758 2387 23.139 11.798 2388 20.914 26.054
2389 21.222 27.158 2390 21.232 26.060 2391 21.483 28.279
2392 21.518 27.169 2393 21.635 30.552 2394 21.907 28.983
2395 21.758 28.296 2396 22.239 11.639 2397 22.651 11.741
2398 22.344 11.669 2399 22.549 11.720 2400 22.447 11.696
2401 21.687 32.893 2402 21.778 31.735 2403 21.866 30.586
2404 21.760 34.128 2405 21.876 32.949 2406 21.883 12.679
2407 21.814 13.228 2408 21.747 13.773 2409 21.683 14.314
2410 21.621 14.852 2411 21.561 15.385 2412 21.503 15.915
2413 21.448 16.442 2414 21.394 16.964 2415 21.343 17.483
2416 21.294 17.998 2417 21.247 18.509 2418 21.203 19.016
2419 21.161 19.520 2420 21.100 19.802 2421 21.083 20.515
2422 21.047 21.008 2423 21.014 21.496 2424 20.982 21.981
2425 20.953 22.462 2426 20.926 22.939 2427 20.902 23.412
2428 20.879 23.882 2429 20.899 24.966 2430 24.014 11.366
2431 24.431 10.955 2432 24.854 10.556 2433 25.281 10.170
2434 25.612 9.967 2435 23.602 11.789 2436 25.948 9.727
2437 26.296 9.450 2438 26.664 9.137 2439 22.072 12.150
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2443 28.663 9.137 2444 29.166 9.137 2445 29.670 9.137
2446 23.089 12.228 2447 22.981 12.231 2448 22.871 12.232
2449 22.760 12.229 2450 22.648 12.223 2451 23.197 12.222
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2458 22.535 12.214 2459 22.306 12.188 2460 22.421 12.202
2461 21.988 31.779 2462 21.985 31.380 2463 22.203 29.471
2464 21.926 34.196 2465 21.926 33.820 2466 22.196 31.824
2467 22.013 12.691 2468 21.955 13.229 2469 21.900 13.764
2470 21.847 14.296 2471 21.796 14.826 2472 21.747 15.353
2473 21.700 15.877 2474 21.656 16.398 2475 21.613 16.917
2476 21.573 17.432 2477 21.535 17.945 2478 21.498 18.455
2479 21.464 18.963 2480 21.432 19.467 2481 21.402 19.969
2482 21.375 20.467 2483 21.349 20.963 2484 21.326 21.457
2485 21.304 21.947 2486 21.285 22.435 2487 21.220 23.065
2488 21.253 23.401 2489 21.200 24.365 2490 24.061 11.780
2491 24.473 11.359 2492 24.891 10.950 2493 25.313 10.554
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2497 26.419 9.727 2498 26.779 9.450 2499 27.261 9.450
2500 27.743 9.450 2501 28.225 9.450 2502 28.707 9.450
2503 29.189 9.450 2504 29.670 9.450 2505 23.136 12.670
2506 23.016 12.683 2507 22.894 12.694 2508 22.771 12.702
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2545 21.609 22.900 2546 21.604 23.391 2547 21.600 23.880
2548 24.109 12.200 2549 24.516 11.771 2550 24.928 11.352
2551 25.346 10.945 2552 25.768 10.551 2553 26.194 10.170
2554 26.535 9.967 2555 23.709 12.641 2556 26.888 9.727
2557 27.356 9.727 2558 27.822 9.727 2559 28.286 9.727
2560 28.749 9.727 2561 29.210 9.727 2562 29.670 9.727
2563 23.316 13.091 2564 23.185 13.117 2565 23.052 13.140
2566 22.918 13.161 2567 22.783 13.178 2568 22.648 13.194
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2572 22.404 27.203 2573 22.578 28.350 2574 22.235 13.223
2575 22.374 13.216 2576 22.705 29.522 2577 22.434 33.114
2578 22.611 31.911 2579 22.784 30.723 2580 22.418 34.397
2581 22.418 34.003 2582 22.579 34.464 2583 22.740 34.530
2584 22.203 13.739 2585 22.173 14.254 2586 22.144 14.768
2587 22.118 15.282 2588 22.093 15.794 2589 22.070 16.306
2590 22.049 16.817 2591 22.031 17.327 2592 22.014 17.836
2593 21.999 18.345 2594 21.986 18.852 2595 21.975 19.359
2596 21.965 19.864 2597 21.958 20.369 2598 21.953 20.873
2599 21.949 21.376 2600 21.948 21.878 2601 21.948 22.380
2602 21.950 22.880 2603 21.955 23.380 2604 21.961 23.879
2605 24.159 12.628 2606 24.560 12.189 2607 24.967 11.761
2608 25.380 11.345 2609 25.797 10.940 2610 26.219 10.549
2611 26.644 10.170 2612 26.992 9.967 2613 23.764 13.077
2614 27.446 9.967 2615 27.896 9.967 2616 28.344 9.967
2617 28.789 9.967 2618 29.231 9.967 2619 29.670 9.967
2620 23.378 13.536 2621 23.234 13.570 2622 23.089 13.602
2623 22.944 13.631 2624 22.798 13.658 2625 22.650 13.682
2626 22.502 13.703 2627 22.254 24.974 2628 22.500 26.085
2629 22.699 27.215 2630 22.851 28.368 2631 22.353 13.722

2632 22.955 29.548 2633 22.817 31.955 2634 23.012 30.757
2635 22.802 33.223 2636 23.022 31.999 2637 23.050 34.195
2638 23.256 34.530 2639 22.334 14.229 2640 22.317 14.736
2641 22.302 15.243 2642 22.288 15.750 2643 22.276 16.257
2644 22.267 16.765 2645 22.259 17.272 2646 22.253 17.780
2647 22.248 18.287 2648 22.246 18.795 2649 22.245 19.303
2650 22.246 19.811 2651 22.249 20.319 2652 22.254 20.827
2653 22.261 21.335 2654 22.269 21.844 2655 22.280 22.352
2656 22.292 22.861 2657 22.306 23.369 2658 22.322 23.878
2659 24.209 13.063 2660 24.604 12.616 2661 25.006 12.178
2662 25.414 11.752 2663 25.827 11.338 2664 26.244 10.936
2665 26.665 10.546 2666 27.090 10.170 2667 23.821 13.521
2668 27.531 10.170 2669 27.968 10.170 2670 28.400 10.170
2671 28.828 10.170 2672 29.251 10.170 2673 29.670 10.170
2674 23.440 13.988 2675 23.285 14.030 2676 23.128 14.069
2677 22.971 14.106 2678 22.813 14.140 2679 22.654 14.172
2680 22.495 14.202 2681 22.593 24.976 2682 22.817 26.091
2683 22.994 27.227 2684 23.123 28.386 2685 23.205 29.573
2686 23.239 30.791 2687 23.226 32.042 2688 23.522 34.210
2689 23.763 34.530 2690 22.489 14.702 2691 22.485 15.202
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2701 22.540 20.268 2702 22.555 20.780 2703 22.572 21.294
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2734 23.454 29.598 2735 23.466 30.824 2736 23.698 32.037
2737 24.115 34.208 2738 24.264 34.530 2739 22.667 15.159
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2743 22.713 17.157 2744 22.729 17.662 2745 22.746 18.169
2746 22.765 18.678 2747 22.785 19.188 2748 22.807 19.701
2749 22.913 20.282 2750 22.857 20.733 2751 22.884 21.252
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2755 23.008 23.348 2756 23.043 23.878 2757 24.313 13.955
2758 24.697 13.490 2759 25.088 13.035 2760 25.485 12.590
2761 25.888 12.156 2762 26.297 11.734 2763 26.709 11.323
2764 27.126 10.926 2765 23.937 14.429 2766 27.560 10.921
2767 27.991 10.916 2768 28.417 10.911 2769 28.839 10.906
2770 29.670 10.896 2771 29.256 10.901 2772 23.568 14.912
2773 23.390 14.966 2774 23.210 15.017 2775 23.030 15.067
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2782 23.917 30.818 2783 24.165 32.032 2784 24.404 34.206
2785 24.756 34.530 2786 22.869 15.605 2787 22.891 16.100
2788 22.915 16.597 2789 22.940 17.098 2790 22.966 17.601
2791 22.994 18.108 2792 23.024 18.617 2793 23.055 19.130
2794 23.087 19.645 2795 23.122 20.164 2796 23.157 20.685
2797 23.195 21.210 2798 23.234 21.737 2799 23.274 22.268
2800 23.316 22.801 2801 23.359 23.338 2802 23.405 23.878
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2806 25.522 13.021 2807 25.920 12.578 2808 26.324 12.146
2809 26.732 11.725 2810 27.144 11.316 2811 23.996 14.894
2812 27.630 11.318 2813 28.002 11.302 2814 28.425 11.295
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2818 23.634 15.384 2819 23.444 15.443 2820 23.253 15.499
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2824 23.895 27.530 2825 23.937 28.440 2826 24.132 29.617
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2833 23.095 16.044 2834 23.129 16.538 2835 23.165 17.036
2836 23.203 17.539 2837 23.242 18.045 2838 23.282 18.556
2839 23.324 19.070 2840 23.367 19.588 2841 23.412 20.110
2842 23.458 20.637 2843 23.506 21.167 2844 23.555 21.701
2845 23.605 22.239 2846 23.708 22.757 2847 23.711 23.328
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2854 26.351 12.565 2855 26.755 12.135 2856 27.163 11.716
2857 24.057 15.366 2858 27.591 11.707 2859 28.015 11.697
2860 28.850 11.679 2861 28.434 11.688 2862 29.262 11.670
2863 29.670 11.661 2864 23.702 15.864 2865 23.500 15.926
2866 23.298 15.986 2867 23.948 24.987 2868 24.082 26.119
2869 24.169 27.274 2870 24.346 28.433 2871 24.557 29.609
2872 24.802 30.805 2873 25.079 32.022 2874 25.267 34.212
2875 25.837 34.220 2876 26.650 34.530 2877 26.385 34.222
2878 27.104 34.530 2879 23.344 16.477 2880 23.391 16.974

2881 23.439 17.475 2882 23.489 17.981 2883 23.540 18.493
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2893 24.127 23.878 2894 24.476 15.348 2895 24.842 14.859
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2911 24.287 24.991 2912 24.398 26.126 2913 24.557 27.268
2914 24.751 28.426 2915 24.978 29.602 2916 25.237 30.798
2917 25.527 32.017 2918 25.969 32.012 2919 26.800 34.208
2920 26.404 32.007 2921 27.551 34.530 2922 27.222 34.222
2923 27.990 34.530 2924 23.615 16.909 2925 23.675 17.410
2926 23.736 17.916 2927 23.798 18.429 2928 23.861 18.947
2929 23.926 19.472 2930 23.992 20.002 2931 24.059 20.538
2932 24.127 21.080 2933 24.197 21.628 2934 24.268 22.182
2935 24.340 22.742 2936 24.414 23.307 2937 24.488 23.879
2938 24.533 15.827 2939 24.893 15.330 2940 25.261 14.841
2941 25.637 14.361 2942 26.020 13.890 2943 26.409 13.429
2944 26.803 12.979 2945 27.203 12.540 2946 24.181 16.331
2947 27.623 12.528 2948 28.453 12.502 2949 28.040 12.515
2950 28.862 12.490 2951 29.268 12.477 2952 29.670 12.465
2953 23.840 16.843 2954 24.625 24.994 2955 24.766 26.121
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2962 26.510 30.779 2963 27.615 34.225 2964 27.257 31.997
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2968 29.262 34.530 2969 23.910 17.343 2970 23.982 17.850
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2974 24.281 19.946 2975 24.359 20.488 2976 24.438 21.036
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2992 28.462 12.923 2993 28.868 12.909 2994 28.053 12.937
2995 29.271 12.895 2996 29.670 12.881 2997 24.972 24.991
2998 25.131 26.116 2999 25.324 27.255 3000 25.549 28.412
3001 25.806 29.588 3002 26.213 29.580 3003 26.924 30.772
3004 26.615 29.573 3005 27.675 31.992 3006 27.332 30.766
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3010 29.670 34.530 3011 29.185 34.232 3012 24.310 17.325
3013 24.377 17.832 3014 24.444 18.347 3015 24.512 18.868
3016 24.581 19.397 3017 24.652 19.932 3018 24.724 20.475
3019 24.796 21.025 3020 24.870 21.582 3021 24.945 22.146
3022 25.021 22.717 3023 25.098 23.295 3024 25.176 23.880
3025 24.649 16.806 3026 24.996 16.294 3027 25.353 15.790
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ELEMENT VERTICES (4(4I5))

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6393  10 6394  10 6395  10 6396  10 6397  10 6398  10 6399  10 6400  10
6401  10 6402  10 6403  10 6404  10 6405  10 6406  10 6407  10 6408  10
6409  10 6410  10 6411  10 6412  10 6413  10 6414  10 6415  10 6416  10
6417  10 6418  10 6419  10 6420  10 6421  10 6422  10 6423  10 6424  10
6425  10 6426  10 6427  10 6428  10 6429  10 6430  10 6431  10 6432  10
6433  10 6434  10 6435  10 6436  10 6437  10 6438  10 6439  10 6440  10
6441  10 6442  10 6443  10 6444  10 6445  10 6446  10 6447  10 6448  10
6449  10 6450  10 6451  10 6452  10 6453  10 6454  10 6455  10 6456  10
6457  10 6458  10 6459  10 6460  10 6461  10 6462  10 6463  10 6464  10
6465  10 6466  10
ELEM  ID DEFINIT.: ID, RECH(FT/D, - IS RECHARGE), VPRM(1/D), HDLEAK (I5,3F10.0)
   1  -0.0002   0.0000    0.00
   2  -0.0002   0.0000    0.00
   3  -0.0002   0.0000    0.00
   4  -0.0002   0.0000    0.00
   5  -0.0001   0.0000    0.00
   6  -0.0001   0.0000    0.00
   7  -0.0001   0.0000    0.00
   8  -0.0001   0.0000    0.00
   9  -0.0001   0.0000    0.00
  10  -0.0001   0.0000    0.00
  31  -0.00137  0.0000    0.00
  33  -0.00105  0.0000    0.00
  35  -0.0000   0.0000    0.00
  65  -0.0122   0.0000    0.00
GS ARRAY: INP,SFCT (I2,F10.0); NODE,GROUND SURFACE  ELEVATION (5(I5,F10.0))
 1   1.0000
   1 5129.4447   2 5140.7201   3 5127.1738   4 5142.5613   5 5127.4628
   6 5127.8363   7 5146.9969   8 5129.4176   9 5128.1809  10 5126.1001
  11 5149.0465  12 5146.0134  13 5129.8582  14 5128.0755  15 5127.7593
  16 5128.3173  17 5149.5409  18 5136.1113  19 5132.0060  20 5129.1152
  21 5129.5118  22 5127.4042  23 5129.4233  24 5149.4295  25 5137.5508
  26 5133.6523  27 5130.2817  28 5130.6920  29 5130.9855  30 5128.3482
  31 5128.3110  32 5147.3604  33 5138.9418  34 5134.8354  35 5131.3708
  36 5132.4126  37 5132.5294  38 5129.7477  39 5127.4007  40 5126.8978
  41 5145.4277  42 5140.2176  43 5139.7340  44 5132.0192  45 5134.6688
  46 5139.1257  47 5131.8738  48 5128.2196  49 5125.2732  50 5124.6316
  51 5144.0722  52 5140.9371  53 5144.4277  54 5133.6414  55 5142.0246
  56 5145.7745  57 5139.3132  58 5131.6952  59 5127.3056  60 5124.9845
  61 5125.3871  62 5144.0027  63 5140.9668  64 5140.8888  65 5138.3786
  66 5146.7521  67 5142.7706  68 5145.7494  69 5140.6834  70 5130.4015
  71 5127.5075  72 5124.8194  73 5129.1586  74 5146.3063  75 5141.9699
  76 5142.3294  77 5143.7993  78 5149.3982  79 5142.1211  80 5141.2800
  81 5144.5470  82 5138.5232  83 5132.6192  84 5133.1101  85 5124.2292
  86 5131.7367  87 5147.5869  88 5142.6679  89 5143.7520  90 5139.4782
  91 5149.2820  92 5144.0778  93 5140.1538  94 5140.1272  95 5147.4070
  96 5143.7915  97 5135.9312  98 5134.8949  99 5126.4638 100 5134.1607
 101 5150.0397 102 5143.8583 103 5145.4244 104 5138.7897 105 5129.1356
 106 5129.6980 107 5130.0544 108 5130.9097 109 5130.5803 110 5129.8408
 111 5129.4233 112 5128.2862 113 5127.9575 114 5128.2347 115 5128.8917
 116 5129.4118 117 5130.1017 118 5130.2315 119 5130.7475 120 5131.0832
 121 5131.9723 122 5132.1816 123 5133.3349 124 5133.8261 125 5134.7322
 126 5136.6558 127 5137.5922 128 5140.1378 129 5141.3690 130 5143.1901
 131 5145.0101 132 5146.6565 133 5147.0012 134 5152.0882 135 5150.1761
 136 5144.4124 137 5139.6006 138 5137.8374 139 5137.1530 140 5136.0884
 141 5134.7577 142 5135.1677 143 5147.0164 144 5147.9447 145 5142.2229
 146 5140.7246 147 5143.1180 148 5152.1801 149 5146.9775 150 5138.5277
 151 5136.4771 152 5137.8729 153 5153.2567 154 5147.1131 155 5147.3761
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 161 5137.6215 162 5133.2993 163 5129.2588 164 5130.1452 165 5130.0770
 166 5129.5220 167 5130.5756 168 5131.0647 169 5131.5057 170 5130.8787
 171 5132.1919 172 5133.0184 173 5132.3611 174 5134.8312 175 5135.0997
 176 5136.3452 177 5137.3232 178 5138.7193 179 5140.4988 180 5142.5122
 181 5143.3007 182 5145.5075 183 5147.0363 184 5148.2888 185 5152.6919
 186 5151.5309 187 5145.2934 188 5140.2156 189 5138.5773 190 5137.7948
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 206 5152.2968 207 5148.6800 208 5145.5643 209 5137.1035 210 5136.1374
 211 5136.1150 212 5136.8297 213 5137.1921 214 5135.4977 215 5133.5114
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3306 5189.7482 3307 5185.2260 3308 5232.0536 3309 5226.6601 3310 5221.4359
3311 5217.6188 3312 5214.8509 3313 5211.2355 3314 5206.1633 3315 5231.5254
3316 5232.7580 3317 5232.3479 3318 5231.4862 3319 5233.7011 3320 5207.7430
3321 5204.5900 3322 5200.6454 3323 5196.2365 3324 5191.3772 3325 5225.6911
3326 5221.2906 3327 5219.3427 3328 5217.9320 3329 5213.7498 3330 5226.8882
3331 5227.4140 3332 5228.2045 3333 5232.0643 3334 5210.2995 3335 5205.4077
3336 5200.5153 3337 5195.3114 3338 5222.3849 3339 5222.7765 3340 5223.6359
3341 5217.7607 3342 5226.1544 3343 5230.7802 3344 5232.1914 3345 5210.6133
3346 5205.7282 3347 5200.1882 3348 5224.9434 3349 5223.1982 3350 5217.0881
3351 5226.0454 3352 5229.7503 3353 5210.9046 3354 5205.4543 3355 5223.0537
3356 5216.6667 3357 5224.9144 3358 5211.7149 3359 5218.3934
ZBED ARRAY: INP,SFCT (I2,F10.0); NODE , BEDROCK ELEVATION (5(I5,F10.0))
1 1.0000
1 5080.0613 2 5080.5223 3 5080.8140 4 5082.3097 5 5083.4592
6 5083.9279 7 5083.6762 8 5083.4239 9 5083.1709 10 5083.5861
11 5081.7525 12 5082.6807 13 5080.5572 14 5080.6219 15 5080.1033
16 5076.1856 17 5078.0083 18 5078.8291 19 5075.2575 20 5076.4334
21 5071.6757 22 5073.7695 23 5070.9392 24 5076.8517 25 5074.8233
26 5072.9252 27 5070.9712 28 5068.7307 29 5068.1716 30 5069.1693
31 5068.0597 32 5081.2807 33 5076.8411 34 5073.3741 35 5069.6959
36 5069.0304 37 5067.0263 38 5066.9614 39 5067.3373 40 5066.7689
41 5084.4025 42 5081.2007 43 5076.4314 44 5073.0688 45 5072.2090
46 5067.8995 47 5066.9638 48 5066.7720 49 5068.7559 50 5067.4170
51 5087.6836 52 5084.2106 53 5079.7203 54 5078.0043 55 5076.9939
56 5071.5494 57 5068.7428 58 5067.3435 59 5067.0194 60 5069.9307
61 5069.8999 62 5089.7568 63 5087.5179 64 5085.8933 65 5083.0935
66 5082.8875 67 5079.1482 68 5074.7661 69 5069.6822 70 5067.7736
71 5068.3992 72 5070.4899 73 5069.4196 74 5091.5724 75 5089.7901
76 5089.5706 77 5087.6988 78 5088.3113 79 5086.2470 80 5085.4446
81 5077.4266 82 5070.9848 83 5072.0056 84 5070.7821 85 5072.0903
86 5069.8976 87 5095.0114 88 5093.0893 89 5091.9702 90 5094.0088
91 5098.9900 92 5092.2848 93 5095.2155 94 5088.8985 95 5078.6189
96 5075.8709 97 5079.7856 98 5075.1107 99 5073.0000 100 5073.7086
101 5096.8919 102 5097.9074 103 5096.5976 104 5098.8947 105 5075.1000
106 5076.5500 107 5078.6900 108 5081.4300 109 5082.9200 110 5083.6700
111 5084.6200 112 5085.2500 113 5085.9600 114 5085.8200 115 5084.6700
116 5083.2200 117 5083.1400 118 5083.2800 119 5083.1500 120 5085.0000
121 5088.4900 122 5092.2500 123 5094.7100 124 5097.1900 125 5098.6400
126 5099.9100 127 5101.4400 128 5101.8200 129 5101.4600 130 5101.8300
131 5103.9200 132 5105.8500 133 5107.2500 134 5109.4610 135 5112.4164
136 5114.4387 137 5116.6502 138 5118.7221 139 5119.3426 140 5118.2811
141 5116.4974 142 5116.8024 143 5106.1227 144 5098.9378 145 5097.8942
146 5096.8100 147 5090.6532 148 5084.0561 149 5087.1256 150 5086.6407
151 5076.3418 152 5072.1200 153 5098.6670 154 5101.1801 155 5100.0032
156 5104.0566 157 5076.1400 158 5076.0800 159 5077.8600 160 5082.5600
161 5081.5800 162 5082.7900 163 5086.7100 164 5087.2200 165 5087.8600
166 5086.2500 167 5088.1000 168 5087.2600 169 5087.0300 170 5083.8400
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176 5103.5900 177 5105.5400 178 5104.1600 179 5101.9700 180 5101.9600
181 5102.3900 182 5103.1600 183 5105.1400 184 5107.5000 185 5109.9532
186 5112.8173 187 5114.9326 188 5117.9119 189 5119.4029 190 5119.4904
191 5118.6184 192 5117.2004 193 5118.4752 194 5110.6681 195 5102.8741
196 5102.9685 197 5102.7200 198 5099.1300 199 5093.6643 200 5089.6068

201 5093.8940 202 5089.5607 203 5080.2354 204 5080.9906 205 5099.4602
206 5108.5011 207 5105.5800 208 5106.8293 209 5082.0700 210 5082.4700
211 5082.9800 212 5083.5600 213 5084.1800 214 5085.2100 215 5087.4700
216 5089.7100 217 5089.8900 218 5090.2700 219 5090.2300 220 5090.4300
221 5093.3400 222 5097.0900 223 5100.2100 224 5101.2500 225 5100.7700
226 5100.8400 227 5101.3700 228 5103.5400 229 5104.5500 230 5103.2300
231 5102.0600 232 5102.2400 233 5103.7900 234 5105.6400 235 5107.8800
236 5111.0574 237 5113.4613 238 5115.9790 239 5118.7634 240 5120.5297
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261 5090.5366 262 5093.0114 263 5088.8800 264 5088.0100 265 5086.7100
266 5088.6400 267 5090.3200 268 5092.9400 269 5095.8300 270 5097.7100
271 5100.3200 272 5102.4400 273 5104.6800 274 5107.4300 275 5108.6800
276 5104.5200 277 5101.0800 278 5102.0100 279 5103.7100 280 5103.6000
281 5103.1200 282 5102.8800 283 5103.0200 284 5104.1600 285 5106.3400
286 5111.2031 287 5112.3243 288 5114.3180 289 5117.1471 290 5119.3305
291 5120.7435 292 5120.5128 293 5119.0757 294 5117.8798 295 5119.1289
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301 5111.7100 302 5104.3739 303 5099.5338 304 5102.5559 305 5104.8371
306 5107.0686 307 5106.1531 308 5104.8509 309 5105.0459 310 5110.8925
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316 5106.4960 317 5107.0803 318 5108.8859 319 5090.7500 320 5094.3200
321 5099.5000 322 5104.5900 323 5107.9200 324 5109.1300 325 5109.0300
326 5107.7900 327 5105.2900 328 5103.4600 329 5102.9700 330 5103.6600
331 5103.6700 332 5103.3700 333 5103.2200 334 5103.7900 335 5105.0000
336 5106.8800 337 5109.0200 338 5113.1522 339 5114.8593 340 5118.3780
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366 5114.5740 367 5114.5822 368 5115.1190 369 5114.0337 370 5112.8155
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391 5119.2292 392 5121.6618 393 5122.7179 394 5121.2116 395 5119.1546
396 5118.9989 397 5120.5476 398 5120.4017 399 5119.1333 400 5120.4863
401 5123.9266 402 5122.8255 403 5120.9200 404 5117.7100 405 5113.9700
406 5111.2200 407 5113.9934 408 5118.3369 409 5119.3188 410 5122.0386
411 5122.5205 412 5121.8650 413 5113.4927 414 5117.0696 415 5119.4593
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441 5118.1872 442 5120.3578 443 5123.4783 444 5123.5742 445 5120.8679
446 5119.3688 447 5119.1418 448 5120.8120 449 5122.2425 450 5120.0125
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476 5110.3694 477 5109.5227 478 5109.1080 479 5108.9113 480 5108.9008
481 5109.2517 482 5109.4824 483 5111.0573 484 5111.9566 485 5113.4489
486 5114.7766 487 5116.5878 488 5117.9197 489 5119.2861 490 5119.9940
491 5119.7009 492 5119.4646 493 5121.7466 494 5125.2326 495 5125.0203
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506 5126.7033 507 5125.5901 508 5125.0545 509 5121.6923 510 5121.4037
511 5122.4366 512 5124.7564 513 5127.0963 514 5128.6538 515 5129.8339
516 5128.1703 517 5119.8870 518 5119.8977 519 5122.2349 520 5124.4237
521 5128.0542 522 5124.3269 523 5123.1174 524 5118.3164 525 5116.3532
526 5112.2552 527 5110.0300 528 5110.5000 529 5109.7169 530 5109.6563
531 5109.5122 532 5109.5764 533 5109.8290 534 5110.7003 535 5112.5729
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551 5143.0100 552 5142.0400 553 5127.9676 554 5130.0916 555 5136.3645
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576 5118.3667 577 5113.8300 578 5113.0300 579 5109.5275 580 5110.9145
581 5110.5637 582 5111.3590 583 5110.1533 584 5110.1871 585 5110.7221
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606 5144.8762 607 5145.0879 608 5139.5298 609 5136.1436 610 5134.1326
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641 5121.0939 642 5123.1747 643 5123.2163 644 5124.4131 645 5124.2763
646 5127.6734 647 5131.0656 648 5128.3592 649 5122.7892 650 5119.5098
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911 5139.0100 912 5140.1300 913 5143.5000 914 5147.3100 915 5154.3990
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1021 5151.4532 1022 5148.4672 1023 5147.0577 1024 5145.8726 1025 5145.7912
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1046 5140.1522 1047 5140.3615 1048 5140.5737 1049 5140.9223 1050 5141.1548
1051 5141.6969 1052 5140.9310 1053 5140.3481 1054 5142.5770 1055 5144.7913
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1096 5140.8166 1097 5140.4218 1098 5141.0604 1099 5141.0239 1100 5141.8639
1101 5141.9125 1102 5142.2859 1103 5143.4199 1104 5143.8702 1105 5145.6851
1106 5147.0065 1107 5140.2468 1108 5130.7666 1109 5130.5199 1110 5134.9930
1111 5133.2911 1112 5162.0200 1113 5166.9300 1114 5170.9400 1115 5176.6800
1116 5164.7100 1117 5166.8200 1118 5179.3100 1119 5175.4100 1120 5158.5200
1121 5147.2600 1122 5154.8700 1123 5157.9000 1124 5156.0100 1125 5154.4600
1126 5153.6700 1127 5153.7900 1128 5153.9700 1129 5147.4751 1130 5146.4907
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2306 5212.4600 2307 5217.1700 2308 5222.7800 2309 5225.6600 2310 5181.4500
2311 5184.1900 2312 5186.1900 2313 5229.1800 2314 5231.1000 2315 5232.7300
2316 5234.1400 2317 5237.0800 2318 5242.8100 2319 5191.2700 2320 5190.4700
2321 5189.7800 2322 5192.0400 2323 5133.7264 2324 5134.6243 2325 5133.5651
2326 5135.0839 2327 5135.6599 2328 5138.5696 2329 5137.7241 2330 5135.0657
2331 5186.6400 2332 5189.2000 2333 5187.1000 2334 5188.6400 2335 5187.5800
2336 5188.1100 2337 5131.8185 2338 5132.6257 2339 5137.5176 2340 5131.3678
2341 5177.8300 2342 5175.2700 2343 5173.6800 2344 5172.3100 2345 5170.2100
2346 5169.7874 2347 5168.9050 2348 5166.6471 2349 5163.4590 2350 5160.2010
2351 5156.2992 2352 5151.3393 2353 5147.7384 2354 5143.7719 2355 5142.3307
2356 5141.3672 2357 5139.6528 2358 5139.7614 2359 5139.7666 2360 5138.9864
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2366 5203.6000 2367 5207.2500 2368 5211.6500 2369 5213.9700 2370 5199.9400
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2401 5133.9331 2402 5136.8246 2403 5136.1437 2404 5131.0947 2405 5133.2682
2406 5178.1800 2407 5175.7400 2408 5174.1900 2409 5172.8700 2410 5170.9400
2411 5170.2668 2412 5169.3498 2413 5167.5668 2414 5164.6992 2415 5161.2907
2416 5157.1301 2417 5151.4283 2418 5146.5492 2419 5143.6870 2420 5142.3986
2421 5141.4551 2422 5140.0102 2423 5139.0813 2424 5139.4543 2425 5139.0783
2426 5139.3419 2427 5140.3000 2428 5137.3643 2429 5131.2332 2430 5209.0800
2431 5211.7600 2432 5215.8400 2433 5217.9600 2434 5220.2600 2435 5205.7800
2436 5224.3500 2437 5230.5800 2438 5233.5700 2439 5182.2600 2440 5236.6200
2441 5238.1400 2442 5239.3600 2443 5242.6100 2444 5249.8200 2445 5257.1900
2446 5191.8200 2447 5190.3100 2448 5188.7700 2449 5187.6000 2450 5186.4600
2451 5193.3500 2452 5129.6642 2453 5128.9000 2454 5135.9521 2455 5135.9073
2456 5139.2861 2457 5182.8700 2458 5185.3300 2459 5183.6600 2460 5184.4400
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2466 5135.2930 2467 5178.5700 2468 5176.2700 2469 5174.8000 2470 5173.5300
2471 5171.7100 2472 5170.6904 2473 5169.9542 2474 5168.6106 2475 5165.9181
2476 5162.4933 2477 5158.8588 2478 5153.1160 2479 5146.9552 2480 5141.5785
2481 5140.6505 2482 5141.3977 2483 5141.0923 2484 5139.9646 2485 5138.8242
2486 5138.3307 2487 5138.6863 2488 5139.2850 2489 5132.9591 2490 5213.4900
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2496 5206.4600 2497 5232.3300 2498 5235.9800 2499 5239.5700 2500 5242.2300
2501 5244.4600 2502 5249.4100 2503 5258.2600 2504 5263.8000 2505 5189.0800
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2541 5141.3642 2542 5141.3198 2543 5138.8612 2544 5138.0462 2545 5137.2482
2546 5138.1740 2547 5136.8229 2548 5213.0300 2549 5217.4200 2550 5222.1400
2551 5225.4700 2552 5228.6000 2553 5230.7000 2554 5234.2100 2555 5200.9900
2556 5237.9600 2557 5242.4300 2558 5247.6700 2559 5251.2100 2560 5257.6700
2561 5264.2400 2562 5267.9400 2563 5187.3300 2564 5185.4300 2565 5184.1200
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2576 5137.7141 2577 5131.7893 2578 5133.9916 2579 5134.3126 2580 5128.6953
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2616 5255.4900 2617 5260.7500 2618 5265.0400 2619 5268.5500 2620 5185.9200
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2626 5177.9400 2627 5129.6830 2628 5125.6215 2629 5134.0384 2630 5139.1772
2631 5177.0500 2632 5138.0628 2633 5133.7694 2634 5134.0942 2635 5131.3683
2636 5132.8537 2637 5128.9312 2638 5126.3980 2639 5175.8800 2640 5174.6000
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2651 5139.5133 2652 5139.6090 2653 5141.1321 2654 5140.7127 2655 5138.3271
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2691 5174.3410 2692 5172.8773 2693 5171.5690 2694 5169.9267 2695 5167.6279
2696 5164.1162 2697 5160.1269 2698 5154.3408 2699 5147.8899 2700 5142.9574
2701 5140.2804 2702 5138.1321 2703 5139.4795 2704 5140.7424 2705 5138.9218
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2716 5240.2900 2717 5190.1200 2718 5246.5400 2719 5251.1300 2720 5256.9900
2721 5259.6800 2722 5261.1200 2723 5265.4100 2724 5185.0100 2725 5183.0500
2726 5181.2500 2727 5179.6400 2728 5178.1200 2729 5176.9000 2730 5131.3070
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2736 5131.5267 2737 5130.2413 2738 5128.1739 2739 5175.2178 2740 5173.4684
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2746 5157.5909 2747 5151.2621 2748 5145.3367 2749 5142.0943 2750 5138.7037
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2766 5247.2100 2767 5250.8200 2768 5256.0000 2769 5259.4100 2770 5263.3000
2771 5260.2800 2772 5184.9900 2773 5182.8700 2774 5177.9411 2775 5177.6146
2776 5175.9061 2777 5131.9321 2778 5122.8209 2779 5124.1917 2780 5133.5870
2781 5135.3191 2782 5134.1283 2783 5132.1760 2784 5130.6406 2785 5130.3432
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2796 5140.2906 2797 5137.6939 2798 5138.2156 2799 5138.1270 2800 5137.5000
2801 5137.0000 2802 5136.5000 2803 5190.4100 2804 5207.7600 2805 5217.4900
2806 5222.9000 2807 5231.5800 2808 5235.8000 2809 5240.3500 2810 5244.9700
2811 5189.4800 2812 5250.8700 2813 5253.3900 2814 5256.8900 2815 5259.9100
2816 5260.7600 2817 5261.4800 2818 5178.9441 2819 5178.1363 2820 5176.7945
2821 5176.3789 2822 5132.5402 2823 5122.3654 2824 5123.1079 2825 5131.0067
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2906 5249.0300 2907 5249.3200 2908 5247.1800 2909 5179.2591 2910 5176.9083
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2916 5129.6477 2917 5131.9544 2918 5131.1679 2919 5131.3691 2920 5131.1868
2921 5129.5396 2922 5130.3875 2923 5127.6990 2924 5175.3915 2925 5173.2525
2926 5169.8495 2927 5166.9478 2928 5164.7195 2929 5163.2186 2930 5160.7179
2931 5158.4963 2932 5155.0542 2933 5150.5204 2934 5143.3274 2935 5138.3800
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2946 5185.6438 2947 5234.7800 2948 5241.7600 2949 5238.4700 2950 5243.6500
2951 5244.2700 2952 5244.3400 2953 5177.0775 2954 5138.8020 2955 5133.4212
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2991 5228.0700 2992 5235.2400 2993 5239.2800 2994 5231.7800 2995 5242.0500
2996 5243.9000 2997 5139.7694 2998 5136.7372 2999 5126.4523 3000 5125.5744
3001 5126.2180 3002 5128.8612 3003 5118.6427 3004 5129.6106 3005 5125.5923
3006 5117.5007 3007 5126.4758 3008 5122.2377 3009 5124.9433 3010 5123.4452
3011 5124.4461 3012 5179.1053 3013 5176.4364 3014 5174.2582 3015 5173.1668
3016 5171.5672 3017 5169.7655 3018 5168.4986 3019 5165.0347 3020 5159.5750
3021 5153.7112 3022 5145.9821 3023 5141.5082 3024 5138.2800 3025 5182.5585
3026 5187.6260 3027 5187.9752 3028 5188.2731 3029 5202.3400 3030 5206.2100
3031 5210.9200 3032 5217.7700 3033 5226.4300 3034 5221.8500 3035 5229.4100
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3091 5121.6226 3092 5179.9604 3093 5178.6910 3094 5178.3035 3095 5176.9902
3096 5173.0661 3097 5170.0723 3098 5167.3559 3099 5163.4813 3100 5159.4137
3101 5153.9817 3102 5146.7438 3103 5138.8700 3104 5139.1147 3105 5176.3146

3106 5175.0071 3107 5178.9821 3108 5180.8432 3109 5199.3300 3110 5204.7600
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3141 5138.6603 3142 5170.1820 3143 5173.5518 3144 5178.7452 3145 5180.0070
3146 5201.2700 3147 5226.8600 3148 5220.8000 3149 5211.1800 3150 5233.8200
3151 5204.7900 3152 5240.0600 3153 5130.5269 3154 5130.5329 3155 5127.1599
3156 5131.9040 3157 5118.7380 3158 5120.1385 3159 5122.8287 3160 5118.6317
3161 5126.2779 3162 5130.0848 3163 5130.3962 3164 5168.3392 3165 5168.4885
3166 5168.7830 3167 5168.1438 3168 5164.3754 3169 5161.3247 3170 5159.2318
3171 5156.0151 3172 5152.1009 3173 5149.3131 3174 5144.6337 3175 5139.2400
3176 5138.5268 3177 5170.5973 3178 5174.9737 3179 5178.9761 3180 5182.3243
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3226 5137.1301 3227 5131.6594 3228 5173.9652 3229 5174.6218 3230 5174.8148
3231 5174.2325 3232 5172.1274 3233 5167.8794 3234 5163.1052 3235 5159.0304
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3241 5193.3338 3242 5200.6889 3243 5210.7149 3244 5231.1322 3245 5223.8048
3246 5219.3462 3247 5149.8390 3248 5148.5210 3249 5153.0100 3250 5145.3800
3251 5150.0800 3252 5133.7600 3253 5147.1000 3254 5135.6000 3255 5137.7149
3256 5144.9490 3257 5180.0098 3258 5180.8722 3259 5179.7077 3260 5177.8644
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3266 5152.8467 3267 5186.3117 3268 5193.9428 3269 5199.8707 3270 5209.0741
3271 5217.3953 3272 5228.1720 3273 5223.1565 3274 5155.8475 3275 5153.1500
3276 5157.0039 3277 5151.1600 3278 5152.9922 3279 5148.8200 3280 5154.6253
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3301 5167.6136 3302 5161.4204 3303 5169.3927 3304 5159.9306 3305 5166.0881
3306 5168.9176 3307 5165.0062 3308 5192.3642 3309 5190.1012 3310 5187.1263
3311 5183.7950 3312 5179.8619 3313 5174.8588 3314 5169.5548 3315 5199.7950
3316 5206.7900 3317 5213.2964 3318 5220.4677 3319 5222.2765 3320 5173.8276
3321 5175.3582 3322 5172.1788 3323 5174.9068 3324 5177.6147 3325 5197.9694
3326 5195.7525 3327 5191.9717 3328 5186.8146 3329 5180.1582 3330 5205.3070
3331 5211.0751 3332 5218.4727 3333 5219.8086 3334 5181.8609 3335 5178.1015
3336 5180.0722 3337 5177.4881 3338 5203.5633 3339 5200.1796 3340 5196.2907
3341 5189.7805 3342 5208.8253 3343 5216.2014 3344 5217.4568 3345 5184.9544
3346 5186.5548 3347 5182.2767 3348 5205.2564 3349 5199.6137 3350 5193.0807
3351 5213.4518 3352 5214.5486 3353 5195.1027 3354 5189.3706 3355 5208.2324
3356 5202.4761 3357 5210.3834 3358 5199.0197 3359 5205.7303
ZBASE ARRAY: INP,SFCT (I2,F10.0); NODE,AQUIFER BASE ELEVATION (5(I5,F10.0))
1 1.0000
1 5079.06 2 5079.52 3 5079.81 4 5081.31 5 5082.46
6 5082.93 7 5082.68 8 5082.42 9 5082.17 10 5082.47
11 5080.75 12 5081.68 13 5079.56 14 5079.62 15 5079.10
16 5075.19 17 5077.01 18 5077.83 19 5073.79 20 5075.43
21 5070.68 22 5072.77 23 5069.94 24 5075.85 25 5073.82
26 5071.03 27 5068.78 28 5067.23 29 5067.17 30 5068.17
31 5067.06 32 5080.28 33 5075.84 34 5072.37 35 5068.30
36 5067.53 37 5066.03 38 5065.96 39 5066.34 40 5065.77
41 5083.40 42 5080.20 43 5075.43 44 5072.07 45 5071.21
46 5066.90 47 5065.96 48 5065.77 49 5067.76 50 5066.42
51 5086.68 52 5083.21 53 5078.72 54 5077.00 55 5075.12
56 5070.39 57 5067.74 58 5066.34 59 5066.02 60 5068.93
61 5068.90 62 5088.76 63 5086.52 64 5084.89 65 5082.09
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71 5067.40 72 5069.49 73 5068.42 74 5090.57 75 5088.79
76 5088.57 77 5086.70 78 5085.86 79 5078.66 80 5074.50
81 5071.77 82 5069.98 83 5071.01 84 5069.65 85 5071.09
86 5068.90 87 5094.01 88 5092.09 89 5090.97 90 5093.01
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96 5074.87 97 5078.79 98 5074.11 99 5071.00 100 5072.71
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111 5083.55 112 5083.56 113 5084.23 114 5083.99 115 5070.91
116 5071.25 117 5072.20 118 5072.56 119 5073.22 120 5073.52
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126 5083.41 127 5084.30 128 5086.67 129 5088.07 130 5090.97
131 5092.43 132 5093.22 133 5093.16 134 5105.07 135 5105.64
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141 5099.99 142 5099.95 143 5103.28 144 5097.94 145 5089.22
146 5080.73 147 5076.94 148 5080.59 149 5086.13 150 5085.64

151	5075.28	152	5070.12	153	5097.67	154	5100.18	155	5099.00
156	5100.53	157	5074.14	158	5074.08	159	5075.86	160	5069.60
161	5071.21	162	5070.74	163	5084.86	164	5071.77	165	5073.06
166	5072.65	167	5075.40	168	5075.16	169	5075.51	170	5074.21
171	5076.20	172	5077.15	173	5077.11	174	5080.58	175	5071.71
176	5087.22	177	5087.99	178	5086.56	179	5086.57	180	5088.24
181	5090.37	182	5092.48	183	5093.81	184	5093.98	185	5105.23
186	5106.02	187	5106.26	188	5105.58	189	5104.16	190	5101.96
191	5100.33	192	5099.91	193	5099.98	194	5104.59	195	5101.87
196	5099.44	197	5091.03	198	5085.74	199	5083.93	200	5087.87
201	5091.24	202	5088.56	203	5079.24	204	5078.96	205	5098.46
206	5102.85	207	5103.14	208	5102.45	209	5080.70	210	5080.47
211	5080.98	212	5076.78	213	5082.18	214	5083.21	215	5085.47
216	5087.71	217	5087.89	218	5075.84	219	5079.34	220	5088.43
221	5092.00	222	5092.78	223	5093.77	224	5094.21	225	5095.87
226	5096.43	227	5087.89	228	5088.86	229	5089.71	230	5088.89
231	5088.61	232	5089.15	233	5090.36	234	5092.58	235	5093.72
236	5105.99	237	5106.61	238	5106.56	239	5105.67	240	5103.73
241	5101.56	242	5100.12	243	5099.78	244	5100.15	245	5106.09
246	5105.68	247	5105.36	248	5104.00	249	5097.62	250	5095.10
251	5092.93	252	5092.55	253	5094.05	254	5079.34	255	5075.74
256	5086.41	257	5100.80	258	5105.14	259	5095.91	260	5106.63
261	5078.32	262	5076.96	263	5077.42	264	5086.01	265	5084.71
266	5086.64	267	5088.32	268	5090.94	269	5094.38	270	5094.47
271	5081.18	272	5082.95	273	5095.82	274	5096.19	275	5097.30
276	5098.34	277	5099.48	278	5100.89	279	5101.05	280	5102.44
281	5101.80	282	5100.88	283	5101.02	284	5102.16	285	5105.09
286	5105.88	287	5106.46	288	5107.21	289	5107.17	290	5106.21
291	5103.91	292	5101.07	293	5099.86	294	5099.63	295	5100.33
296	5099.00	297	5107.93	298	5107.65	299	5106.64	300	5105.20
301	5103.76	302	5100.32	303	5097.06	304	5093.02	305	5095.35
306	5094.91	307	5095.02	308	5095.15	309	5104.05	310	5108.10
311	5097.55	312	5098.78	313	5094.76	314	5094.89	315	5095.11
316	5095.72	317	5095.56	318	5095.91	319	5088.75	320	5092.32
321	5096.67	322	5097.14	323	5083.17	324	5086.65	325	5098.90
326	5099.99	327	5099.92	328	5100.94	329	5101.83	330	5102.62
331	5092.66	332	5092.05	333	5092.61	334	5090.42	335	5090.60
336	5105.57	337	5106.02	338	5107.34	339	5107.08	340	5107.64
341	5106.58	342	5104.06	343	5100.99	344	5099.63	345	5099.52
346	5100.68	347	5102.24	348	5111.36	349	5110.72	350	5110.10
351	5107.68	352	5107.90	353	5106.11	354	5103.64	355	5099.13
356	5095.32	357	5094.72	358	5094.99	359	5095.79	360	5094.64
361	5108.01	362	5110.94	363	5100.04	364	5102.52	365	5095.86
366	5098.03	367	5098.06	368	5098.07	369	5098.58	370	5098.21
371	5098.69	372	5098.72	373	5099.24	374	5098.97	375	5086.93
376	5100.74	377	5101.66	378	5101.78	379	5101.86	380	5102.98
381	5102.91	382	5092.73	383	5094.08	384	5093.35	385	5091.79
386	5103.75	387	5106.49	388	5107.07	389	5107.33	390	5107.31
391	5108.57	392	5107.36	393	5104.15	394	5100.69	395	5099.34
396	5099.59	397	5101.13	398	5102.40	399	5109.13	400	5115.31
401	5114.62	402	5114.04	403	5112.88	404	5111.33	405	5108.93
406	5106.36	407	5102.09	408	5101.86	409	5102.38	410	5101.76
411	5101.82	412	5101.72	413	5112.42	414	5112.57	415	5112.88
416	5101.36	417	5100.58	418	5101.34	419	5101.29	420	5101.17
421	5101.15	422	5101.29	423	5101.15	424	5101.73	425	5101.74
426	5101.68	427	5102.29	428	5092.46	429	5102.96	430	5103.84
431	5104.31	432	5094.09	433	5095.01	434	5094.93	435	5093.44
436	5093.12	437	5106.85	438	5107.48	439	5107.67	440	5107.59
441	5107.77	442	5108.47	443	5107.81	444	5104.40	445	5100.44
446	5099.05	447	5099.66	448	5101.76	449	5100.24	450	5108.01
451	5112.73	452	5118.52	453	5118.96	454	5118.88	455	5117.49
456	5114.63	457	5111.72	458	5107.95	459	5107.63	460	5106.87
461	5106.53	462	5105.98	463	5105.72	464	5105.57	465	5114.41
466	5114.19	467	5114.00	468	5100.89	469	5105.22	470	5105.01
471	5105.09	472	5104.15	473	5104.09	474	5103.66	475	5103.79
476	5104.24	477	5104.21	478	5104.74	479	5105.23	480	5105.14
481	5105.13	482	5105.75	483	5095.46	484	5095.29	485	5094.21
486	5092.95	487	5107.57	488	5108.08	489	5108.66	490	5108.73
491	5108.19	492	5108.19	493	5109.26	494	5108.90	495	5104.53
496	5100.01	497	5098.83	498	5099.92	499	5102.35	500	5101.23
501	5102.88	502	5112.72	503	5116.12	504	5122.62	505	5123.02
506	5122.38	507	5121.96	508	5120.30	509	5114.05	510	5113.23
511	5111.95	512	5112.04	513	5110.47	514	5110.35	515	5108.43
516	5107.79	517	5116.35	518	5115.45	519	5114.85	520	5096.42
521	5109.88	522	5106.74	523	5110.30	524	5107.53	525	5107.88
526	5105.83	527	5106.51	528	5107.31	529	5106.73	530	5107.10
531	5107.32	532	5107.20	533	5107.58	534	5107.12	535	5096.76
536	5094.01	537	5093.98	538	5108.62	539	5108.63	540	5109.54
541	5109.62	542	5109.25	543	5110.53	544	5111.47	545	5109.75
546	5105.37	547	5099.77	548	5098.82	549	5100.14	550	5103.10
551	5114.00	552	5116.04	553	5115.97	554	5114.09	555	5124.48
556	5124.91	557	5125.41	558	5125.40	559	5124.18	560	5122.85
561	5121.56	562	5120.33	563	5118.83	564	5118.14	565	5117.01

566	5115.64	567	5114.05	568	5113.20	569	5117.98	570	5116.17
571	5115.66	572	5103.84	573	5112.08	574	5115.33	575	5113.96
576	5113.70	577	5112.13	578	5110.05	579	5108.53	580	5109.29
581	5109.43	582	5109.48	583	5109.15	584	5109.15	585	5108.39
586	5108.70	587	5095.57	588	5095.20	589	5109.37	590	5109.96
591	5110.47	592	5110.85	593	5110.14	594	5112.60	595	5112.67
596	5111.20	597	5106.07	598	5099.54	599	5099.05	600	5101.08
601	5103.85	602	5107.00	603	5108.09	604	5115.62	605	5124.84
606	5126.26	607	5127.22	608	5127.59	609	5128.49	610	5128.28
611	5126.93	612	5126.48	613	5126.74	614	5126.94	615	5126.46
616	5125.68	617	5122.72	618	5121.53	619	5119.29	620	5118.72
621	5118.64	622	5117.50	623	5108.00	624	5103.40	625	5117.99
626	5121.12	627	5120.62	628	5120.04	629	5115.73	630	5114.63
631	5114.18	632	5114.18	633	5113.49	634	5113.37	635	5112.38
636	5110.79	637	5110.26	638	5110.08	639	5099.06	640	5110.56
641	5111.59	642	5111.33	643	5112.22	644	5113.87	645	5114.15
646	5113.96	647	5112.19	648	5106.19	649	5099.75	650	5099.31
651	5101.80	652	5105.10	653	5105.75	654	5106.15	655	5110.00
656	5120.77	657	5129.62	658	5130.74	659	5131.70	660	5133.03
661	5134.94	662	5132.48	663	5132.13	664	5130.51	665	5131.21
666	5130.11	667	5130.40	668	5130.46	669	5129.87	670	5130.12
671	5129.31	672	5128.72	673	5122.54	674	5118.00	675	5110.00
676	5102.51	677	5128.00	678	5127.13	679	5126.20	680	5123.13
681	5119.88	682	5118.15	683	5118.72	684	5116.60	685	5114.90
686	5115.13	687	5114.90	688	5112.04	689	5112.89	690	5101.90
691	5112.34	692	5112.77	693	5112.72	694	5113.26	695	5114.80
696	5115.68	697	5115.13	698	5113.20	699	5106.36	700	5100.04
701	5099.76	702	5102.69	703	5105.72	704	5119.50	705	5107.40
706	5115.00	707	5117.13	708	5131.55	709	5132.76	710	5134.63
711	5137.55	712	5138.90	713	5139.07	714	5139.71	715	5138.59
716	5136.39	717	5135.72	718	5134.00	719	5133.11	720	5132.90
721	5132.56	722	5131.78	723	5131.95	724	5130.82	725	5126.31
726	5117.00	727	5119.00	728	5103.00	729	5130.65	730	5130.08
731	5128.75	732	5127.53	733	5125.03	734	5124.64	735	5119.83
736	5120.50	737	5118.42	738	5121.75	739	5118.80	740	5117.95
741	5105.96	742	5116.51	743	5115.06	744	5115.75	745	5114.91
746	5116.37	747	5116.41	748	5116.75	749	5114.64	750	5106.76
751	5101.19	752	5101.02	753	5103.84	754	5106.73	755	5122.64
756	5114.00	757	5118.00	758	5116.00	759	5119.13	760	5134.63
761	5136.33	762	5138.97	763	5141.94	764	5142.27	765	5141.54
766	5140.92	767	5139.48	768	5137.95	769	5137.56	770	5135.98
771	5134.68	772	5134.03	773	5133.59	774	5133.07	775	5132.63
776	5132.25	777	5128.69	778	5111.00	779	5120.74	780	5116.00
781	5131.84	782	5131.50	783	5130.67	784	5128.92	785	5128.19
786	5125.28	787	5124.35	788	5122.14	789	5124.18	790	5120.71
791	5120.34	792	5109.20	793	5118.75	794	5117.76	795	5117.45
796	5116.34	797	5117.70	798	5118.44	799	5117.86	800	5116.06
801	5109.05	802	5101.27	803	5102.68	804	5105.38	805	5107.40
806	5125.03	807	5107.00	808	5115.00	809	5121.00	810	5119.75
811	5125.34	812	5139.92	813	5140.70	814	5143.47	815	5143.38
816	5143.03	817	5142.61	818	5141.44	819	5139.56	820	5138.60
821	5138.02	822	5136.79	823	5135.68	824	5134.86	825	5134.08
826	5133.94	827	5133.39	828	5132.96	829	5115.00	830	5113.00
831	5128.60	832	5130.64	833	5132.86	834	5132.72	835	5131.82
836	5132.16	837	5130.36	838	5129.82	839	5126.40	840	5127.69
841	5127.51	842	5125.61	843	5125.33	844	5122.89	845	5122.30
846	5120.27	847	5119.67	848	5119.77	849	5119.54	850	5120.23
851	5117.86	852	5109.75	853	5104.14	854	5103.63	855	5106.99
856	5109.07	857	5128.64	858	5123.10	859	5113.00	860	5120.00
861	5118.00	862	5124.71	863	5131.05	864	5144.99	865	5144.25
866	5143.91	867	5143.88	868	5143.67	869	5143.08	870	5141.29
871	5139.66	872	5138.77	873	5138.29	874	5136.98	875	5136.24
876	5135.84	877	5135.20	878	5134.59	879	5134.33	880	5134.04
881	5110.00	882	5120.00	883	5136.74	884	5137.00	885	5133.63
886	5133.40	887	5133.09	888	5132.55	889	5131.76	890	5128.58
891	5127.30	892	5129.45	893	5128.23	894	5127.49	895	5126.15
896	5124.15	897	5123.62	898	5121.70	899	5122.42	900	5122.13
901	5121.51	902	5119.19	903	5112.63	904	5105.94	905	5105.28
906	5108.27	907	5110.30	908	5133.00	909	5129.00	910	5120.00
911	5120.00	912	5115.00	913	5122.50	914	5131.31	915	5141.40
916	5146.33	917	5144.72	918	5144.34	919	5144.25	920	5144.18
921	5142.39	922	5140.92	923	5139.46	924	5138.76	925	5137.94
926	5137.53	927	5136.94	928	5136.35	929	5135.70	930	5135.36
931	5135.09	932	5134.42	933	5113.00	934	5124.08	935	5130.00
936	5138.00	937	5134.37	938	5133.99	939	5133.66	940	5133.00
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946	5129.30	947	5127.76	948	5126.59	949	5124.92	950	5124.08
951	5124.44	952	5123.30	953	5122.01	954	5115.10	955	5107.09
956	5109.88	957	5110.59	958	5111.56	959	5124.00	960	5136.00
961	5131.00	962	5125.00	963	5126.00	964	5121.00	965	5122.94
966	5128.72	967	5133.21	968	5141.80	969	5146.25	970	5145.54
971	5144.99	972	5144.82	973	5144.16	974	5142.17	975	5140.26
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1191 5141.16 1192 5141.65 1193 5141.54 1194 5141.20 1195 5140.19
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1201 5138.25 1202 5137.70 1203 5137.18 1204 5136.13 1205 5135.77
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1211 5130.15 1212 5128.22 1213 5126.46 1214 5122.92 1215 5121.77
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1226 5142.19 1227 5141.65 1228 5136.00 1229 5133.81 1230 5134.23
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1251 5139.50 1252 5139.31 1253 5139.28 1254 5138.43 1255 5137.72
1256 5136.52 1257 5136.12 1258 5134.98 1259 5132.91 1260 5132.51
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1266 5123.58 1267 5120.53 1268 5158.00 1269 5149.00 1270 5146.00
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1276 5137.30 1277 5143.36 1278 5144.00 1279 5138.26 1280 5136.81
1281 5138.13 1282 5138.82 1283 5140.69 1284 5136.62 1285 5141.47
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1301 5140.10 1302 5139.98 1303 5139.96 1304 5139.57 1305 5139.55
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1371 5156.00 1372 5167.00 1373 5177.00 1374 5141.31 1375 5135.35
1376 5146.04 1377 5145.57 1378 5145.49 1379 5141.77 1380 5135.49
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1391 5143.70 1392 5143.94 1393 5144.13 1394 5144.38 1395 5144.49

1396	5144.18	1397	5143.58	1398	5142.36	1399	5141.62	1400	5141.18
1401	5140.83	1402	5140.59	1403	5140.35	1404	5140.10	1405	5139.78
1406	5138.77	1407	5135.15	1408	5133.86	1409	5133.56	1410	5132.57
1411	5131.72	1412	5131.69	1413	5130.06	1414	5126.84	1415	5123.22
1416	5153.00	1417	5152.00	1418	5149.00	1419	5151.00	1420	5156.00
1421	5164.00	1422	5171.00	1423	5182.00	1424	5136.85	1425	5139.95
1426	5148.09	1427	5147.00	1428	5146.71	1429	5142.33	1430	5135.70
1431	5134.44	1432	5139.11	1433	5140.55	1434	5141.51	1435	5142.38
1436	5148.21	1437	5147.08	1438	5145.82	1439	5144.69	1440	5144.16
1441	5144.41	1442	5144.32	1443	5144.36	1444	5144.47	1445	5144.58
1446	5144.46	1447	5143.57	1448	5142.67	1449	5141.76	1450	5141.18
1451	5140.81	1452	5140.61	1453	5140.46	1454	5140.20	1455	5139.78
1456	5135.63	1457	5134.41	1458	5133.95	1459	5133.06	1460	5132.01
1461	5131.68	1462	5130.16	1463	5127.04	1464	5123.92	1465	5155.00
1466	5158.00	1467	5153.00	1468	5154.00	1469	5145.60	1470	5163.00
1471	5169.00	1472	5175.00	1473	5174.00	1474	5138.18	1475	5144.55
1476	5149.00	1477	5149.96	1478	5148.25	1479	5143.07	1480	5135.49
1481	5135.70	1482	5140.96	1483	5142.28	1484	5141.31	1485	5140.43
1486	5148.28	1487	5146.75	1488	5145.72	1489	5144.90	1490	5144.52
1491	5144.45	1492	5144.43	1493	5144.45	1494	5144.55	1495	5144.58
1496	5144.29	1497	5143.53	1498	5142.32	1499	5141.57	1500	5141.13
1501	5140.65	1502	5140.41	1503	5140.16	1504	5139.54	1505	5136.69
1506	5134.92	1507	5134.36	1508	5133.31	1509	5132.12	1510	5131.61
1511	5130.31	1512	5127.94	1513	5124.31	1514	5156.00	1515	5156.00
1516	5159.00	1517	5159.62	1518	5160.00	1519	5141.47	1520	5166.00
1521	5170.00	1522	5166.00	1523	5185.00	1524	5138.83	1525	5147.00
1526	5149.52	1527	5150.35	1528	5147.98	1529	5143.86	1530	5136.96
1531	5137.70	1532	5143.65	1533	5142.03	1534	5141.08	1535	5140.26
1536	5148.24	1537	5146.85	1538	5145.66	1539	5144.92	1540	5144.57
1541	5144.41	1542	5144.37	1543	5144.43	1544	5144.56	1545	5144.63
1546	5144.17	1547	5143.27	1548	5142.30	1549	5141.42	1550	5140.78
1551	5139.49	1552	5139.26	1553	5139.18	1554	5137.25	1555	5134.99
1556	5134.58	1557	5133.74	1558	5132.49	1559	5131.66	1560	5130.43
1561	5128.38	1562	5125.30	1563	5156.00	1564	5156.00	1565	5157.00
1566	5164.00	1567	5158.00	1568	5155.77	1569	5138.57	1570	5165.00
1571	5167.00	1572	5182.00	1573	5179.00	1574	5147.35	1575	5145.00
1576	5149.87	1577	5151.22	1578	5151.11	1579	5148.32	1580	5143.35
1581	5137.94	1582	5139.63	1583	5143.01	1584	5141.67	1585	5140.72
1586	5149.14	1587	5147.79	1588	5146.62	1589	5145.58	1590	5144.86
1591	5144.52	1592	5144.35	1593	5144.25	1594	5144.40	1595	5144.54
1596	5144.44	1597	5143.95	1598	5143.08	1599	5142.14	1600	5141.29
1601	5139.92	1602	5139.02	1603	5138.70	1604	5137.21	1605	5135.13
1606	5134.58	1607	5133.99	1608	5132.55	1609	5131.82	1610	5130.64
1611	5128.52	1612	5126.11	1613	5165.54	1614	5157.00	1615	5159.00
1616	5165.00	1617	5163.00	1618	5161.00	1619	5140.19	1620	5164.00
1621	5182.00	1622	5177.00	1623	5179.00	1624	5159.80	1625	5141.92
1626	5154.85	1627	5155.31	1628	5151.87	1629	5151.69	1630	5150.45
1631	5147.33	1632	5143.78	1633	5138.65	1634	5144.54	1635	5142.71
1636	5141.27	1637	5140.48	1638	5149.09	1639	5147.62	1640	5146.46
1641	5145.44	1642	5144.71	1643	5144.41	1644	5144.20	1645	5144.12
1646	5144.41	1647	5144.47	1648	5144.10	1649	5143.35	1650	5142.87
1651	5141.58	1652	5140.29	1653	5139.07	1654	5138.70	1655	5137.18
1656	5135.09	1657	5134.47	1658	5134.22	1659	5132.97	1660	5131.90
1661	5130.88	1662	5129.65	1663	5126.51	1664	5161.00	1665	5170.53
1666	5161.00	1667	5165.00	1668	5163.00	1669	5163.00	1670	5163.00
1671	5152.00	1672	5177.00	1673	5174.00	1674	5176.00	1675	5176.00
1676	5159.00	1677	5144.87	1678	5150.15	1679	5154.00	1680	5156.23
1681	5150.68	1682	5151.26	1683	5150.41	1684	5136.45	1685	5143.21
1686	5141.17	1687	5143.96	1688	5142.06	1689	5140.89	1690	5150.16
1691	5148.56	1692	5147.27	1693	5145.94	1694	5144.96	1695	5144.50
1696	5144.22	1697	5143.87	1698	5143.99	1699	5144.31	1700	5143.99
1701	5143.19	1702	5142.63	1703	5141.85	1704	5140.85	1705	5139.18
1706	5138.56	1707	5136.83	1708	5134.89	1709	5134.26	1710	5134.08
1711	5133.13	1712	5132.20	1713	5131.13	1714	5130.10	1715	5127.50
1716	5158.00	1717	5160.00	1718	5165.00	1719	5163.00	1720	5163.00
1721	5177.00	1722	5163.14	1723	5157.46	1724	5171.00	1725	5177.00
1726	5177.00	1727	5173.00	1728	5154.00	1729	5154.00	1730	5156.00
1731	5160.00	1732	5157.00	1733	5154.00	1734	5156.00	1735	5154.94
1736	5151.33	1737	5151.29	1738	5148.37	1739	5146.61	1740	5142.60
1741	5145.65	1742	5143.53	1743	5141.60	1744	5151.11	1745	5149.65
1746	5148.13	1747	5146.73	1748	5145.48	1749	5144.60	1750	5144.32
1751	5143.85	1752	5143.17	1753	5143.21	1754	5143.29	1755	5143.14
1756	5142.39	1757	5141.98	1758	5140.95	1759	5139.88	1760	5138.87
1761	5136.75	1762	5134.60	1763	5133.98	1764	5134.07	1765	5133.37
1766	5132.47	1767	5131.62	1768	5130.21	1769	5128.34	1770	5158.00
1771	5163.72	1772	5163.00	1773	5160.00	1774	5173.00	1775	5170.00
1776	5156.86	1777	5181.00	1778	5177.00	1779	5171.00	1780	5177.00
1781	5154.62	1782	5154.00	1783	5159.00	1784	5153.00	1785	5157.63
1786	5182.00	1787	5183.00	1788	5183.00	1789	5182.00	1790	5181.00
1791	5181.00	1792	5166.52	1793	5152.40	1794	5153.29	1795	5150.03
1796	5147.42	1797	5141.96	1798	5142.93	1799	5145.24	1800	5149.38
1801	5151.23	1802	5150.96	1803	5148.99	1804	5147.32	1805	5145.87
1806	5144.73	1807	5144.36	1808	5143.90	1809	5143.10	1810	5142.36

1811	5142.48	1812	5142.85	1813	5142.40	1814	5141.80	1815	5140.57
1816	5139.47	1817	5139.26	1818	5135.63	1819	5134.18	1820	5133.62
1821	5133.99	1822	5133.63	1823	5132.76	1824	5131.72	1825	5130.93
1826	5128.95	1827	5161.00	1828	5161.00	1829	5159.00	1830	5168.00
1831	5172.00	1832	5181.00	1833	5154.50	1834	5177.00	1835	5173.00
1836	5177.00	1837	5151.82	1838	5153.00	1839	5159.00	1840	5154.00
1841	5153.78	1842	5182.00	1843	5186.00	1844	5185.00	1845	5184.00
1846	5185.00	1847	5185.00	1848	5157.00	1849	5153.39	1850	5152.00
1851	5148.86	1852	5146.85	1853	5146.27	1854	5146.70	1855	5144.55
1856	5149.91	1857	5151.01	1858	5149.65	1859	5147.58	1860	5146.61
1861	5145.29	1862	5144.46	1863	5144.14	1864	5143.38	1865	5141.67
1866	5141.27	1867	5142.18	1868	5142.60	1869	5141.11	1870	5139.45
1871	5138.36	1872	5138.88	1873	5134.07	1874	5133.86	1875	5133.44
1876	5133.86	1877	5133.77	1878	5133.07	1879	5132.06	1880	5131.33
1881	5129.73	1882	5158.00	1883	5162.00	1884	5160.00	1885	5168.00
1886	5173.00	1887	5178.00	1888	5178.00	1889	5153.01	1890	5176.00
1891	5178.00	1892	5178.09	1893	5153.00	1894	5159.00	1895	5153.00
1896	5152.00	1897	5182.00	1898	5187.00	1899	5187.00	1900	5188.00
1901	5190.00	1902	5191.00	1903	5153.00	1904	5153.10	1905	5151.69
1906	5148.19	1907	5145.35	1908	5143.57	1909	5146.24	1910	5148.68
1911	5150.31	1912	5150.68	1913	5148.73	1914	5147.38	1915	5145.99
1916	5144.53	1917	5144.14	1918	5143.64	1919	5141.85	1920	5139.41
1921	5140.57	1922	5141.94	1923	5141.48	1924	5139.76	1925	5140.40
1926	5136.59	1927	5132.93	1928	5133.31	1929	5133.15	1930	5133.72
1931	5133.94	1932	5133.21	1933	5132.49	1934	5131.47	1935	5130.26
1936	5158.00	1937	5162.00	1938	5161.00	1939	5168.00	1940	5173.00
1941	5178.00	1942	5180.00	1943	5179.00	1944	5153.22	1945	5178.00
1946	5152.40	1947	5154.00	1948	5160.00	1949	5155.00	1950	5153.00
1951	5183.00	1952	5188.00	1953	5189.00	1954	5191.00	1955	5194.00
1956	5194.00	1957	5151.00	1958	5130.75	1959	5130.94	1960	5153.27
1961	5152.02	1962	5148.55	1963	5145.97	1964	5144.35	1965	5147.06
1966	5148.77	1967	5150.31	1968	5151.12	1969	5149.05	1970	5147.33
1971	5145.82	1972	5144.52	1973	5143.90	1974	5143.91	1975	5141.63
1976	5139.28	1977	5140.01	1978	5140.98	1979	5140.90	1980	5139.30
1981	5140.20	1982	5140.30	1983	5131.23	1984	5132.57	1985	5132.92
1986	5133.72	1987	5134.02	1988	5133.69	1989	5132.57	1990	5131.79
1991	5161.00	1992	5151.83	1993	5163.00	1994	5167.00	1995	5170.00
1996	5178.00	1997	5182.00	1998	5182.00	1999	5179.00	2000	5153.51
2001	5153.07	2002	5154.00	2003	5162.00	2004	5158.00	2005	5153.00
2006	5184.00	2007	5189.00	2008	5191.00	2009	5194.00	2010	5197.00
2011	5197.00	2012	5152.00	2013	5131.93	2014	5131.00	2015	5131.54
2016	5131.28	2017	5153.49	2018	5152.36	2019	5149.09	2020	5146.57
2021	5145.09	2022	5147.08	2023	5145.26	2024	5150.48	2025	5150.62
2026	5149.17	2027	5147.63	2028	5146.12	2029	5144.92	2030	5144.07
2031	5143.68	2032	5142.08	2033	5139.43	2034	5138.34	2035	5140.13
2036	5140.93	2037	5139.60	2038	5140.10	2039	5140.20	2040	5129.51
2041	5131.76	2042	5132.82	2043	5133.74	2044	5134.09	2045	5133.82
2046	5133.00	2047	5162.00	2048	5163.00	2049	5161.00	2050	5163.00
2051	5168.00	2052	5178.00	2053	5183.00	2054	5183.00	2055	5181.00
2056	5153.80	2057	5153.72	2058	5155.00	2059	5163.00	2060	5158.00
2061	5153.00	2062	5186.00	2063	5190.00	2064	5193.00	2065	5196.00
2066	5200.00	2067	5200.00	2068	5161.00	2069	5133.24	2070	5132.09
2071	5133.33	2072	5131.50	2073	5131.72	2074	5131.14	2075	5153.72
2076	5152.72	2077	5149.64	2078	5147.15	2079	5145.76	2080	5147.75
2081	5145.76	2082	5150.49	2083	5150.66	2084	5148.90	2085	5147.73
2086	5146.27	2087	5144.87	2088	5144.06	2089	5142.47	2090	5140.75
2091	5139.86	2092	5138.50	2093	5139.21	2094	5140.27	2095	5140.71
2096	5139.12	2097	5140.00	2098	5128.13	2099	5131.30	2100	5132.79
2101	5133.76	2102	5134.11	2103	5134.00	2104	5164.00	2105	5162.00
2106	5164.00	2107	5165.00	2108	5169.00	2109	5177.00	2110	5183.00
2111	5185.00	2112	5184.02	2113	5154.27	2114	5154.33	2115	5156.00
2116	5164.00	2117	5157.00	2118	5152.00	2119	5188.94	2120	5192.00
2121	5197.00	2122	5201.00	2123	5203.00	2124	5203.00	2125	5165.00
2126	5134.09	2127	5133.52	2128	5134.13	2129	5132.23	2130	5133.64
2131	5130.94	2132	5132.24	2133	5151.00	2134	5164.00	2135	5150.00
2136	5163.00	2137	5151.00	2138	5161.00	2139	5152.00	2140	5159.00
2141	5156.00	2142	5153.97	2143	5153.08	2144	5150.15	2145	5147.72
2146	5146.38	2147	5148.13	2148	5146.71	2149	5150.83	2150	5150.53
2151	5148.83	2152	5147.28	2153	5146.13	2154	5145.18	2155	5144.47
2156	5141.77	2157	5140.45	2158	5140.58	2159	5138.61	2160	5138.45
2161	5139.34	2162	5140.26	2163	5138.56	2164	5136.78	2165	5130.24
2166	5130.60	2167	5133.01	2168	5133.82	2169	5134.08	2170	5165.00
2171	5165.00	2172	5170.00	2173	5173.00	2174	5174.00	2175	5178.00
2176	5184.00	2177	5188.00	2178	5188.00	2179	5154.66	2180	5154.96
2181	5157.00	2182	5164.00	2183	5157.00	2184	5192.01	2185	5195.00
2186	5200.00	2187	5204.00	2188	5205.00	2189	5207.00	2190	5169.00
2191	5169.00	2192	5134.00	2193	5134.14	2194	5133.86	2195	5133.71
2196	5134.12	2197	5130.50	2198	5131.60	2199	5133.68	2200	5158.00
2201	5168.00	2202	5160.00	2203	5167.00	2204	5161.00	2205	5166.00
2206	5163.00	2207	5165.00	2208	5130.39	2209	5154.00	2210	5153.00
2211	5150.65	2212	5148.23	2213	5146.97	2214	5148.20	2215	5147.10
2216	5151.70	2217	5150.01	2218	5148.91	2219	5147.37	2220	5146.00
2221	5145.04	2222	5144.69	2223	5141.88	2224	5139.49	2225	5139.80

2226	5139.48	2227	5138.43	2228	5138.56	2229	5140.03	2230	5139.04
2231	5138.86	2232	5131.98	2233	5130.11	2234	5133.19	2235	5133.76
2236	5169.00	2237	5174.00	2238	5170.00	2239	5177.00	2240	5179.00
2241	5181.00	2242	5185.00	2243	5189.00	2244	5190.00	2245	5155.05
2246	5151.59	2247	5158.00	2248	5159.03	2249	5193.00	2250	5197.06
2251	5203.00	2252	5206.00	2253	5207.00	2254	5211.00	2255	5168.00
2256	5168.00	2257	5168.00	2258	5133.71	2259	5133.69	2260	5133.71
2261	5134.13	2262	5133.57	2263	5132.20	2264	5133.78	2265	5134.03
2266	5160.80	2267	5168.00	2268	5160.80	2269	5167.00	2270	5160.90
2271	5161.50	2272	5161.08	2273	5130.05	2274	5132.15	2275	5156.00
2276	5152.86	2277	5151.17	2278	5148.76	2279	5147.57	2280	5148.71
2281	5147.67	2282	5151.78	2283	5149.74	2284	5148.38	2285	5146.99
2286	5145.78	2287	5144.89	2288	5144.43	2289	5141.92	2290	5139.36
2291	5139.24	2292	5139.71	2293	5137.75	2294	5137.79	2295	5139.66
2296	5139.50	2297	5138.54	2298	5133.24	2299	5129.62	2300	5133.34
2301	5173.00	2302	5177.00	2303	5179.00	2304	5171.00	2305	5181.00
2306	5183.00	2307	5187.00	2308	5191.00	2309	5192.00	2310	5155.45
2311	5156.19	2312	5158.00	2313	5194.00	2314	5198.00	2315	5203.00
2316	5206.00	2317	5208.00	2318	5213.00	2319	5166.00	2320	5166.00
2321	5165.00	2322	5166.00	2323	5132.73	2324	5133.59	2325	5132.57
2326	5133.52	2327	5134.54	2328	5133.77	2329	5134.01	2330	5133.54
2331	5159.00	2332	5164.00	2333	5160.00	2334	5163.00	2335	5161.00
2336	5162.00	2337	5129.34	2338	5130.98	2339	5133.70	2340	5129.23
2341	5154.83	2342	5153.27	2343	5152.00	2344	5149.31	2345	5148.21
2346	5148.98	2347	5148.10	2348	5150.90	2349	5149.85	2350	5148.42
2351	5146.80	2352	5145.38	2353	5144.65	2354	5142.77	2355	5141.33
2356	5140.37	2357	5138.65	2358	5138.76	2359	5138.77	2360	5137.99
2361	5139.08	2362	5139.50	2363	5137.96	2364	5132.25	2365	5128.95
2366	5175.00	2367	5178.00	2368	5182.00	2369	5184.00	2370	5171.00
2371	5185.00	2372	5189.00	2373	5194.00	2374	5195.00	2375	5155.87
2376	5156.78	2377	5197.00	2378	5198.00	2379	5202.00	2380	5206.00
2381	5212.00	2382	5217.91	2383	5165.00	2384	5165.00	2385	5164.00
2386	5163.00	2387	5166.00	2388	5128.60	2389	5133.25	2390	5128.14
2391	5135.21	2392	5134.31	2393	5133.97	2394	5136.57	2395	5137.34
2396	5157.41	2397	5162.00	2398	5158.04	2399	5161.00	2400	5159.00
2401	5131.97	2402	5133.80	2403	5133.91	2404	5128.22	2405	5131.71
2406	5160.00	2407	5152.74	2408	5152.19	2409	5149.87	2410	5149.94
2411	5149.61	2412	5148.38	2413	5147.20	2414	5145.58	2415	5148.14
2416	5146.65	2417	5145.17	2418	5143.97	2419	5142.69	2420	5141.40
2421	5140.46	2422	5139.01	2423	5138.08	2424	5138.45	2425	5138.08
2426	5137.95	2427	5138.68	2428	5136.36	2429	5130.23	2430	5177.00
2431	5181.00	2432	5185.00	2433	5187.00	2434	5188.00	2435	5174.00
2436	5191.00	2437	5195.00	2438	5197.00	2439	5157.00	2440	5197.00
2441	5197.00	2442	5201.00	2443	5207.00	2444	5209.22	2445	5210.00
2446	5166.00	2447	5165.00	2448	5165.00	2449	5164.00	2450	5164.00
2451	5166.00	2452	5128.66	2453	5127.90	2454	5134.80	2455	5134.91
2456	5138.29	2457	5159.00	2458	5163.00	2459	5160.00	2460	5162.00
2461	5133.70	2462	5134.12	2463	5135.63	2464	5127.90	2465	5129.07
2466	5133.58	2467	5155.57	2468	5154.27	2469	5152.80	2470	5150.00
2471	5150.71	2472	5150.20	2473	5148.85	2474	5147.90	2475	5146.44
2476	5144.50	2477	5146.47	2478	5145.11	2479	5143.63	2480	5140.58
2481	5139.65	2482	5140.40	2483	5140.09	2484	5138.96	2485	5137.82
2486	5137.33	2487	5137.69	2488	5138.28	2489	5131.96	2490	5179.49
2491	5181.00	2492	5187.00	2493	5190.00	2494	5192.00	2495	5193.00
2496	5174.46	2497	5195.00	2498	5197.00	2499	5197.00	2500	5197.00
2501	5202.00	2502	5205.78	2503	5206.71	2504	5204.68	2505	5166.00
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2511	5165.00	2512	5128.05	2513	5127.37	2514	5135.10	2515	5138.99
2516	5156.02	2517	5158.00	2518	5155.99	2519	5133.85	2520	5136.38
2521	5127.22	2522	5131.36	2523	5133.43	2524	5133.46	2525	5126.66
2526	5154.82	2527	5153.43	2528	5152.00	2529	5151.59	2530	5152.75
2531	5151.28	2532	5150.15	2533	5149.18	2534	5148.06	2535	5146.47
2536	5144.69	2537	5143.19	2538	5141.62	2539	5139.21	2540	5139.56
2541	5140.36	2542	5140.32	2543	5137.86	2544	5137.05	2545	5136.25
2546	5136.17	2547	5135.82	2548	5179.03	2549	5181.42	2550	5187.00
2551	5192.00	2552	5194.00	2553	5195.00	2554	5196.00	2555	5168.99
2556	5197.00	2557	5197.00	2558	5200.00	2559	5202.95	2560	5203.65
2561	5204.82	2562	5200.70	2563	5164.00	2564	5163.43	2565	5162.12
2566	5160.86	2567	5159.71	2568	5158.60	2569	5157.51	2570	5128.06
2571	5126.33	2572	5133.17	2573	5139.24	2574	5155.65	2575	5156.58
2576	5136.71	2577	5130.79	2578	5132.99	2579	5133.31	2580	5126.17
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2591	5148.27	2592	5146.88	2593	5144.83	2594	5143.08	2595	5141.57
2596	5138.96	2597	5138.74	2598	5139.46	2599	5140.50	2600	5139.66
2601	5137.04	2602	5131.90	2603	5132.00	2604	5131.70	2605	5173.18
2606	5179.83	2607	5185.00	2608	5192.00	2609	5195.00	2610	5196.00
2611	5196.00	2612	5197.00	2613	5163.00	2614	5199.00	2615	5204.00
2616	5202.80	2617	5203.35	2618	5203.86	2619	5200.84	2620	5162.00
2621	5162.00	2622	5160.86	2623	5159.58	2624	5158.32	2625	5157.12
2626	5155.94	2627	5128.68	2628	5124.62	2629	5132.74	2630	5138.18
2631	5155.05	2632	5137.06	2633	5132.77	2634	5133.09	2635	5130.37
2636	5131.85	2637	5127.21	2638	5125.35	2639	5155.00	2640	5153.60

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3356 5154.93 3357 5156.24 3358 5153.87 3359 5154.81
HYDK1 ARRAY: INP,SFCT (I2,F10.0); NODE,HYDR. COND (AQ.1) (FT/DAY) 5(I5,F10.0)
1 1.0000
1 1282.5900 2 1200.0000 3 1259.1100 4 1200.0000 5 1500.0000
6 1200.0000 7 1375.7300 8 1500.0000 9 1334.2900 10 1200.0000
11 1433.5200 12 1500.0000 13 1500.0000 14 1200.0000 15 1200.0000
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3176 25.0000 3177 1.5000 3178 1.5000 3179 1.5000 3180 1.5000
3181 1.5000 3182 40.0000 3183 40.0000 3184 20.0000 3185 10.0000
3186 40.0000 3187 10.0000 3188 5.0000 3189 5.0000 3190 12.0000
3191 5.0000 3192 125.0000 3193 12.0000 3194 12.0000 3195 125.0000
3196 45.0000 3197 1.5000 3198 1.5000 3199 1.5000 3200 1.5000
3201 1.5000 3202 1.5000 3203 1.5000 3204 1.5000 3205 1.5000
3206 1.5000 3207 1.5000 3208 5.0000 3209 1.5000 3210 1.5000
3211 1.5000 3212 1.5000 3213 5.0000 3214 5.0000 3215 5.0000
3216 5.0000 3217 5.0000 3218 3.0000 3219 5.0000 3220 3.0000
3221 5.0000 3222 5.0000 3223 5.0000 3224 5.0000 3225 5.0000
3226 10.0000 3227 5.0000 3228 1.5000 3229 1.5000 3230 1.5000
3231 1.5000 3232 1.5000 3233 1.5000 3234 1.5000 3235 1.5000
3236 1.5000 3237 1.5000 3238 1.5000 3239 1.5000 3240 5.0000
3241 5.0000 3242 5.0000 3243 5.0000 3244 5.0000 3245 5.0000
3246 5.0000 3247 35.0000 3248 15.0000 3249 35.0000 3250 5.0000
3251 10.0000 3252 5.0000 3253 5.0000 3254 5.0000 3255 5.0000
3256 5.0000 3257 1.5000 3258 5.0000 3259 5.0000 3260 5.0000
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3266 35.0000 3267 1.5000 3268 5.0000 3269 5.0000 3270 5.0000
3271 5.0000 3272 5.0000 3273 5.0000 3274 35.0000 3275 35.0000
3276 35.0000 3277 10.0000 3278 35.0000 3279 5.0000 3280 10.0000
3281 5.0000 3282 5.0000 3283 5.0000 3284 5.0000 3285 5.0000
3286 5.0000 3287 5.0000 3288 5.0000 3289 5.0000 3290 5.0000
3291 5.0000 3292 5.0000 3293 5.0000 3294 5.0000 3295 5.0000
3296 5.0000 3297 5.0000 3298 5.0000 3299 5.0000 3300 5.0000
3301 5.0000 3302 5.0000 3303 5.0000 3304 5.0000 3305 5.0000
3306 5.0000 3307 5.0000 3308 5.0000 3309 5.0000 3310 5.0000
3311 5.0000 3312 5.0000 3313 5.0000 3314 5.0000 3315 5.0000
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3321 5.0000 3322 5.0000 3323 5.0000 3324 5.0000 3325 5.0000
3326 5.0000 3327 5.0000 3328 5.0000 3329 5.0000 3330 5.0000
3331 5.0000 3332 5.0000 3333 5.0000 3334 5.0000 3335 5.0000
3336 5.0000 3337 5.0000 3338 5.0000 3339 5.0000 3340 5.0000
3341 5.0000 3342 5.0000 3343 5.0000 3344 5.0000 3345 5.0000
3346 5.0000 3347 5.0000 3348 5.0000 3349 5.0000 3350 5.0000
3351 5.0000 3352 5.0000 3353 5.0000 3354 5.0000 3355 5.0000
3356 5.0000 3357 5.0000 3358 5.0000 3359 5.0000
HYDK2 ARRAY: INP,SFCT (I2,F10.0); NODE,HYDR. COND (AQ.2) (FT/DAY) 5(I5,F10.0)
1 1.0000
1 2.8100 2 2.8100 3 2.8100 4 2.8100 5 2.8100
6 2.8100 7 2.8100 8 2.8100 9 2.8100 10 2.8100
11 2.8100 12 2.8100 13 2.8100 14 2.8100 15 2.8100
16 2.8100 17 2.8100 18 2.8100 19 2.8100 20 2.8100
21 2.8100 22 2.8100 23 2.8100 24 2.8100 25 2.8100
26 2.8100 27 2.8100 28 2.8100 29 2.8100 30 2.8100
31 2.8100 32 2.8100 33 2.8100 34 2.8100 35 2.8100
36 2.8100 37 2.8100 38 2.8100 39 2.8100 40 2.8100
41 2.8100 42 2.8100 43 2.8100 44 2.8100 45 2.8100
46 2.8100 47 2.8100 48 2.8100 49 2.8100 50 2.8100

51 2.8100 52 2.8100 53 2.8100 54 2.8100 55 2.8100
56 2.8100 57 2.8100 58 2.8100 59 2.8100 60 2.8100
61 2.8100 62 2.8100 63 2.8100 64 2.8100 65 2.8100
66 2.8100 67 2.8100 68 2.8100 69 2.8100 70 2.8100
71 2.8100 72 2.8100 73 2.8100 74 2.8100 75 2.8100
76 2.8100 77 2.8100 78 2.0000 79 2.8100 80 2.8100
81 2.8100 82 2.8100 83 2.8100 84 2.8100 85 2.8100
86 2.8100 87 2.8100 88 2.8100 89 2.8100 90 2.8100
91 2.0000 92 2.0000 93 2.0000 94 2.0000 95 2.0000
96 2.8100 97 4.0000 98 2.8100 99 2.8100 100 2.8100
101 2.8100 102 8.0000 103 8.0000 104 8.0000 105 2.8000
106 2.8000 107 2.8000 108 2.8000 109 2.8000 110 2.8000
111 2.8000 112 2.8000 113 2.8000 114 2.8000 115 2.8000
116 2.8000 117 2.8000 118 2.8000 119 2.8000 120 2.8000
121 2.8000 122 2.8000 123 2.8000 124 2.8000 125 2.8000
126 4.0000 127 4.0000 128 4.0000 129 4.0000 130 4.0000
131 4.0000 132 4.0000 133 4.0000 134 12.0000 135 12.0000
136 12.0000 137 12.0000 138 12.0000 139 14.0000 140 6.0000
141 6.0000 142 6.0000 143 9.0000 144 2.0000 145 2.0000
146 2.0000 147 2.0000 148 2.0000 149 4.0000 150 4.0000
151 2.8100 152 2.8100 153 2.8100 154 8.0000 155 8.0000
156 8.0000 157 2.8000 158 2.8000 159 2.8000 160 2.8000
161 2.8000 162 2.8000 163 2.8000 164 2.8000 165 2.8000
166 2.8000 167 2.8000 168 2.8000 169 2.8000 170 2.8000
171 2.8000 172 2.8000 173 2.8000 174 2.8000 175 2.8000
176 2.8000 177 2.8000 178 4.0000 179 4.0000 180 4.0000
181 4.0000 182 4.0000 183 4.0000 184 4.0000 185 12.0000
186 12.0000 187 12.0000 188 12.0000 189 12.0000 190 14.0000
191 6.0000 192 6.0000 193 6.0000 194 9.0000 195 8.0000
196 2.0000 197 2.0000 198 2.0000 199 2.0000 200 4.0000
201 4.0000 202 4.0000 203 2.8100 204 2.8100 205 2.8100
206 8.0000 207 8.0000 208 8.0000 209 2.8100 210 2.8100
211 2.8100 212 2.8000 213 2.8000 214 2.8000 215 2.8000
216 2.8000 217 2.8000 218 2.8000 219 2.8000 220 2.8000
221 2.8000 222 2.8000 223 2.8000 224 2.8000 225 2.8000
226 2.8000 227 2.8000 228 4.0000 229 4.0000 230 4.0000
231 4.0000 232 4.0000 233 4.0000 234 4.0000 235 4.0000
236 12.0000 237 12.0000 238 12.0000 239 12.0000 240 12.0000
241 14.0000 242 6.0000 243 6.0000 244 6.0000 245 8.0000
246 8.0000 247 8.0000 248 2.0000 249 2.0000 250 2.0000
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276 2.8000 277 2.8000 278 2.8000 279 4.0000 280 4.0000
281 4.0000 282 4.0000 283 4.0000 284 4.0000 285 4.0000
286 12.0000 287 12.0000 288 12.0000 289 12.0000 290 12.0000
291 12.0000 292 14.0000 293 6.0000 294 6.0000 295 6.0000
296 12.0000 297 8.0000 298 8.0000 299 8.0000 300 2.8100
301 2.8100 302 4.0000 303 4.0000 304 11.0000 305 4.0000
306 4.0000 307 4.0000 308 4.0000 309 2.8100 310 1.5000
311 12.0000 312 12.0000 313 4.0000 314 4.0000 315 4.0000
316 4.0000 317 8.0000 318 8.0000 319 2.8000 320 2.8000
321 2.8000 322 10.0000 323 10.0000 324 10.0000 325 10.0000
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356 11.0000 357 11.0000 358 10.0000 359 10.0000 360 10.0000
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406 4.0000 407 11.0000 408 11.0000 409 10.0000 410 10.0000
411 11.0000 412 11.0000 413 2.8000 414 1.5000 415 12.0000
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431 4.0000 432 4.0000 433 6.0000 434 6.0000 435 6.0000
436 6.0000 437 6.0000 438 12.0000 439 12.0000 440 12.0000
441 12.0000 442 10.0000 443 8.0000 444 10.0000 445 14.0000
446 6.0000 447 6.0000 448 6.0000 449 12.0000 450 9.0000
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521 11.0000 522 11.0000 523 10.0000 524 10.0000 525 10.0000
526 10.0000 527 8.0000 528 8.0000 529 6.0000 530 6.0000
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536 6.0000 537 6.0000 538 6.0000 539 6.0000 540 12.0000
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546 8.0000 547 14.0000 548 6.0000 549 6.0000 550 6.0000
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596 1.0000 597 1.0000 598 8.0000 599 6.0000 600 2.8100
601 6.0000 602 12.0000 603 12.0000 604 12.0000 605 10.0000
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636 4.0000 637 6.0000 638 6.0000 639 6.0000 640 6.0000
641 6.0000 642 12.0000 643 12.0000 644 6.0000 645 1.0000
646 8.0000 647 1.0000 648 0.5000 649 1.5000 650 2.8000
651 2.8100 652 2.8100 653 12.0000 654 12.0000 655 12.0000
656 10.0000 657 10.0000 658 8.0000 659 2.8000 660 2.8000
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666 2.8000 667 2.8000 668 2.8000 669 6.0000 670 6.0000
671 6.0000 672 6.0000 673 2.8100 674 3.0000 675 3.0000
676 1.5000 677 6.0000 678 2.8000 679 2.0000 680 2.0000
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686 4.0000 687 4.0000 688 4.0000 689 6.0000 690 6.0000
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701 2.8000 702 2.8000 703 2.8000 704 12.0000 705 12.0000
706 12.0000 707 10.0000 708 10.0000 709 10.0000 710 2.8000
711 2.8000 712 2.8000 713 2.8100 714 2.8100 715 2.8100
716 2.8100 717 2.8100 718 2.8100 719 2.8100 720 2.8100
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726 1.0000 727 2.0000 728 1.5000 729 2.8000 730 2.8000
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776 2.8000 777 2.8100 778 1.0000 779 2.0000 780 1.5000
781 2.8000 782 2.0000 783 2.0000 784 2.0000 785 2.0000
786 4.0000 787 4.0000 788 4.0000 789 2.8000 790 4.0000
791 4.0000 792 0.8000 793 3.0000 794 3.0000 795 3.0000
796 3.0000 797 0.5000 798 0.5000 799 0.7500 800 0.5000
801 0.5000 802 0.5000 803 2.8000 804 2.8100 805 2.8100
806 10.0000 807 12.0000 808 12.0000 809 10.0000 810 8.0000
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846 0.8000 847 0.8000 848 0.5000 849 0.5000 850 0.7500
851 0.5000 852 0.5000 853 0.5000 854 2.8000 855 2.8100
856 2.8100 857 1.5000 858 12.0000 859 12.0000 860 10.0000
861 8.0000 862 4.0000 863 2.8000 864 2.8000 865 2.8000
866 2.8000 867 2.0000 868 2.0000 869 2.8100 870 2.8100
871 2.8100 872 2.8100 873 2.8100 874 2.8100 875 2.8100
876 2.8100 877 2.8100 878 2.8100 879 2.8100 880 2.8100

881 2.8000 882 1.0000 883 2.0000 884 0.5000 885 2.8100
886 2.8100 887 2.8100 888 2.8100 889 2.8000 890 4.0000
891 4.0000 892 2.8000 893 2.8000 894 2.8000 895 0.8000
896 0.8000 897 0.8000 898 0.8000 899 0.5000 900 0.5000
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911 8.0000 912 8.0000 913 4.0000 914 4.0000 915 2.8000
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936 1.5000 937 2.8100 938 2.8100 939 2.8100 940 2.8100
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991 2.8100 992 2.8100 993 2.8100 994 2.8100 995 2.8100
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1031 2.8100 1032 2.8100 1033 2.8100 1034 2.8100 1035 2.8100
1036 2.8100 1037 2.8100 1038 2.8100 1039 10.0000 1040 1.5000
1041 2.8100 1042 2.8100 1043 2.8100 1044 2.8100 1045 2.8100
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1071 8.0000 1072 8.0000 1073 8.0000 1074 3.0000 1075 3.0000
1076 2.8100 1077 2.8100 1078 2.8100 1079 2.8100 1080 2.8100
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1096 2.8100 1097 2.8100 1098 2.8100 1099 2.8100 1100 2.8100
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1161 0.5000 1162 2.8000 1163 2.8100 1164 2.8100 1165 12.0000
1166 1.0000 1167 1.5000 1168 1.0000 1169 12.0000 1170 11.0000
1171 1.0000 1172 1.0000 1173 8.0000 1174 8.0000 1175 10.0000
1176 10.0000 1177 8.0000 1178 8.0000 1179 8.0000 1180 8.0000
1181 8.0000 1182 3.0000 1183 3.0000 1184 2.8100 1185 2.8100
1186 2.8100 1187 2.8100 1188 2.8100 1189 8.0000 1190 2.8100
1191 2.8100 1192 2.8100 1193 2.8100 1194 2.8100 1195 2.8100
1196 2.8100 1197 2.8100 1198 2.8100 1199 2.8100 1200 2.8100
1201 2.8100 1202 2.8100 1203 2.8100 1204 2.8100 1205 2.8100
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1231 8.0000 1232 8.0000 1233 4.0000 1234 4.0000 1235 4.0000
1236 4.0000 1237 4.0000 1238 4.0000 1239 4.0000 1240 2.8100
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1251 2.8100 1252 2.8100 1253 2.8100 1254 2.8100 1255 2.8100
1256 2.8100 1257 2.8100 1258 2.8100 1259 2.8100 1260 2.8100
1261 1.2500 1262 0.5000 1263 0.5000 1264 0.7500 1265 2.8000
1266 2.8100 1267 2.8100 1268 0.5000 1269 1.0000 1270 1.3000
1271 1.0000 1272 0.1000 1273 0.1000 1274 1.0000 1275 3.5000
1276 8.0000 1277 12.0000 1278 12.0000 1279 11.0000 1280 11.0000
1281 8.0000 1282 8.0000 1283 8.0000 1284 4.0000 1285 4.0000
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1296 4.0000 1297 4.0000 1298 4.0000 1299 2.8100 1300 2.8100
1301 2.8100 1302 2.8100 1303 2.8100 1304 2.8100 1305 2.8100
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1311 1.2500 1312 0.5000 1313 0.5000 1314 0.7500 1315 2.8000
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1326 12.0000 1327 12.0000 1328 12.0000 1329 11.0000 1330 10.0000
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1346 4.0000 1347 4.0000 1348 4.0000 1349 2.8100 1350 2.8100
1351 2.8100 1352 2.8100 1353 2.8100 1354 2.8100 1355 2.8100
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3301 3.0000 3302 3.0000 3303 3.0000 3304 3.0000 3305 3.0000
3306 3.0000 3307 3.0000 3308 0.5000 3309 0.5000 3310 0.5000
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3316 0.5000 3317 0.5000 3318 0.5000 3319 0.5000 3320 1.5000
3321 3.0000 3322 3.0000 3323 3.0000 3324 3.0000 3325 0.5000
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3356 1.5000 3357 1.5000 3358 1.5000 3359 1.5000
STORAGE COEFF. ARRAY: INP,SFCT (I2,F10.0); NODE, STORAGE (5(I5,F10.0))
1 1.000000

1	0.25	2	0.25	3	0.25	4	0.25	5	0.25
6	0.25	7	0.25	8	0.25	9	0.25	10	0.25
11	0.25	12	0.25	13	0.25	14	0.25	15	0.25
16	0.25	17	0.25	18	0.25	19	0.25	20	0.25
21	0.25	22	0.25	23	0.25	24	0.25	25	0.25
26	0.25	27	0.25	28	0.25	29	0.25	30	0.25
31	0.25	32	0.25	33	0.25	34	0.25	35	0.25
36	0.25	37	0.25	38	0.25	39	0.25	40	0.25
41	0.25	42	0.25	43	0.25	44	0.25	45	0.25
46	0.25	47	0.25	48	0.25	49	0.25	50	0.25
51	0.25	52	0.25	53	0.25	54	0.25	55	0.25
56	0.25	57	0.25	58	0.25	59	0.25	60	0.25
61	0.25	62	0.25	63	0.25	64	0.25	65	0.25
66	0.25	67	0.25	68	0.25	69	0.25	70	0.25
71	0.25	72	0.25	73	0.25	74	0.25	75	0.25
76	0.25	77	0.25	78	0.25	79	0.25	80	0.25
81	0.25	82	0.25	83	0.25	84	0.25	85	0.25
86	0.25	87	0.25	88	0.25	89	0.25	90	0.25
91	0.25	92	0.25	93	0.25	94	0.25	95	0.25
96	0.25	97	0.25	98	0.25	99	0.25	100	0.25
101	0.25	102	0.25	103	0.25	104	0.25	105	0.25
106	0.25	107	0.25	108	0.25	109	0.25	110	0.25
111	0.25	112	0.25	113	0.25	114	0.25	115	0.25
116	0.25	117	0.25	118	0.25	119	0.25	120	0.25
121	0.25	122	0.25	123	0.05	124	0.05	125	0.05
126	0.05	127	0.05	128	0.05	129	0.05	130	0.05
131	0.05	132	0.25	133	0.25	134	0.05	135	0.05
136	0.05	137	0.05	138	0.05	139	0.05	140	0.05
141	0.05	142	0.05	143	0.05	144	0.25	145	0.25
146	0.25	147	0.25	148	0.25	149	0.25	150	0.25
151	0.25	152	0.25	153	0.25	154	0.25	155	0.25
156	0.25	157	0.25	158	0.25	159	0.25	160	0.25
161	0.05	162	0.05	163	0.25	164	0.05	165	0.05
166	0.25	167	0.25	168	0.25	169	0.25	170	0.25
171	0.25	172	0.25	173	0.25	174	0.25	175	0.25
176	0.05	177	0.05	178	0.05	179	0.05	180	0.05
181	0.05	182	0.05	183	0.25	184	0.25	185	0.25
186	0.05	187	0.05	188	0.05	189	0.05	190	0.05
191	0.05	192	0.05	193	0.05	194	0.05	195	0.05
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206	0.05	207	0.25	208	0.25	209	0.25	210	0.25
211	0.25	212	0.25	213	0.05	214	0.05	215	0.05
216	0.05	217	0.05	218	0.05	219	0.25	220	0.25
221	0.25	222	0.25	223	0.25	224	0.25	225	0.25
226	0.25	227	0.25	228	0.05	229	0.05	230	0.05
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236	0.05	237	0.05	238	0.05	239	0.05	240	0.05
241	0.05	242	0.05	243	0.05	244	0.05	245	0.05
246	0.25	247	0.05	248	0.25	249	0.25	250	0.25
251	0.25	252	0.25	253	0.05	254	0.25	255	0.25
256	0.25	257	0.25	258	0.05	259	0.05	260	0.05
261	0.25	262	0.05	263	0.05	264	0.05	265	0.05
266	0.05	267	0.05	268	0.05	269	0.05	270	0.05
271	0.05	272	0.25	273	0.25	274	0.25	275	0.25
276	0.25	277	0.25	278	0.25	279	0.05	280	0.05
281	0.05	282	0.05	283	0.05	284	0.25	285	0.25
286	0.05	287	0.05	288	0.05	289	0.05	290	0.05
291	0.05	292	0.05	293	0.05	294	0.05	295	0.05
296	0.05	297	0.25	298	0.05	299	0.05	300	0.05
301	0.25	302	0.25	303	0.25	304	0.05	305	0.05
306	0.05	307	0.05	308	0.05	309	0.25	310	0.25
311	0.05	312	0.05	313	0.05	314	0.05	315	0.05
316	0.05	317	0.05	318	0.05	319	0.05	320	0.05
321	0.05	322	0.05	323	0.05	324	0.25	325	0.25
326	0.25	327	0.25	328	0.25	329	0.25	330	0.25
331	0.25	332	0.05	333	0.05	334	0.05	335	0.05
336	0.05	337	0.05	338	0.05	339	0.05	340	0.05
341	0.05	342	0.05	343	0.05	344	0.05	345	0.05
346	0.05	347	0.05	348	0.25	349	0.25	350	0.25
351	0.25	352	0.25	353	0.25	354	0.25	355	0.25
356	0.05	357	0.05	358	0.05	359	0.05	360	0.05
361	0.25	362	0.25	363	0.05	364	0.05	365	0.05
366	0.05	367	0.05	368	0.05	369	0.05	370	0.05
371	0.05	372	0.05	373	0.05	374	0.05	375	0.05
376	0.25	377	0.25	378	0.25	379	0.25	380	0.25
381	0.25	382	0.25	383	0.05	384	0.05	385	0.05
386	0.05	387	0.05	388	0.05	389	0.05	390	0.05
391	0.05	392	0.05	393	0.05	394	0.05	395	0.05
396	0.05	397	0.05	398	0.25	399	0.25	400	0.25
401	0.05	402	0.25	403	0.25	404	0.25	405	0.25
406	0.25	407	0.05	408	0.05	409	0.05	410	0.05
411	0.05	412	0.05	413	0.05	414	0.25	415	0.25

416	0.25	417	0.05	418	0.05	419	0.05	420	0.05
421	0.05	422	0.05	423	0.05	424	0.05	425	0.05
426	0.05	427	0.25	428	0.25	429	0.25	430	0.25
431	0.25	432	0.25	433	0.05	434	0.05	435	0.05
436	0.05	437	0.05	438	0.05	439	0.05	440	0.05
441	0.05	442	0.05	443	0.05	444	0.05	445	0.05
446	0.05	447	0.05	448	0.05	449	0.25	450	0.25
451	0.25	452	0.05	453	0.05	454	0.25	455	0.25
456	0.05	457	0.05	458	0.05	459	0.05	460	0.05
461	0.05	462	0.05	463	0.05	464	0.05	465	0.05
466	0.25	467	0.25	468	0.25	469	0.05	470	0.05
471	0.05	472	0.05	473	0.05	474	0.05	475	0.05
476	0.05	477	0.25	478	0.25	479	0.25	480	0.25
481	0.25	482	0.25	483	0.25	484	0.05	485	0.05
486	0.05	487	0.05	488	0.05	489	0.05	490	0.05
491	0.05	492	0.05	493	0.05	494	0.05	495	0.05
496	0.05	497	0.05	498	0.05	499	0.05	500	0.05
501	0.25	502	0.25	503	0.05	504	0.05	505	0.05
506	0.25	507	0.25	508	0.25	509	0.05	510	0.05
511	0.05	512	0.05	513	0.05	514	0.05	515	0.05
516	0.05	517	0.05	518	0.25	519	0.25	520	0.25
521	0.05	522	0.05	523	0.05	524	0.05	525	0.05
526	0.05	527	0.25	528	0.25	529	0.25	530	0.25
531	0.25	532	0.25	533	0.25	534	0.25	535	0.25
536	0.05	537	0.05	538	0.05	539	0.05	540	0.05
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546	0.05	547	0.05	548	0.05	549	0.05	550	0.05
551	0.05	552	0.05	553	0.05	554	0.05	555	0.05
556	0.05	557	0.25	558	0.25	559	0.25	560	0.25
561	0.25	562	0.05	563	0.05	564	0.05	565	0.05
566	0.05	567	0.05	568	0.05	569	0.05	570	0.05
571	0.25	572	0.05	573	0.05	574	0.05	575	0.05
576	0.05	577	0.25	578	0.25	579	0.25	580	0.25
581	0.25	582	0.25	583	0.25	584	0.25	585	0.25
586	0.25	587	0.05	588	0.05	589	0.05	590	0.05
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596	0.05	597	0.05	598	0.05	599	0.05	600	0.05
601	0.05	602	0.25	603	0.25	604	0.05	605	0.05
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611	0.25	612	0.25	613	0.25	614	0.25	615	0.25
616	0.05	617	0.05	618	0.05	619	0.05	620	0.05
621	0.25	622	0.25	623	0.25	624	0.25	625	0.25
626	0.05	627	0.05	628	0.25	629	0.25	630	0.25
631	0.25	632	0.25	633	0.25	634	0.25	635	0.25
636	0.25	637	0.25	638	0.25	639	0.05	640	0.05
641	0.05	642	0.05	643	0.05	644	0.05	645	0.05
646	0.05	647	0.05	648	0.05	649	0.05	650	0.05
651	0.05	652	0.05	653	0.25	654	0.25	655	0.25
656	0.05	657	0.05	658	0.05	659	0.05	660	0.05
661	0.25	662	0.25	663	0.25	664	0.25	665	0.25
666	0.25	667	0.25	668	0.05	669	0.05	670	0.05
671	0.05	672	0.05	673	0.25	674	0.25	675	0.25
676	0.25	677	0.05	678	0.05	679	0.25	680	0.25
681	0.25	682	0.25	683	0.25	684	0.25	685	0.25
686	0.25	687	0.25	688	0.25	689	0.25	690	0.25
691	0.05	692	0.05	693	0.05	694	0.05	695	0.05
696	0.05	697	0.05	698	0.05	699	0.05	700	0.05
701	0.05	702	0.05	703	0.05	704	0.05	705	0.05
706	0.25	707	0.05	708	0.05	709	0.05	710	0.05
711	0.05	712	0.05	713	0.25	714	0.25	715	0.25
716	0.25	717	0.25	718	0.25	719	0.25	720	0.25
721	0.05	722	0.05	723	0.05	724	0.05	725	0.05
726	0.25	727	0.25	728	0.05	729	0.05	730	0.05
731	0.25	732	0.25	733	0.25	734	0.25	735	0.25
736	0.05	737	0.05	738	0.25	739	0.25	740	0.25
741	0.05	742	0.05	743	0.05	744	0.05	745	0.05
746	0.05	747	0.05	748	0.05	749	0.05	750	0.05
751	0.05	752	0.05	753	0.05	754	0.05	755	0.05
756	0.25	757	0.25	758	0.05	759	0.05	760	0.05
761	0.05	762	0.05	763	0.05	764	0.05	765	0.05
766	0.25	767	0.25	768	0.25	769	0.25	770	0.25
771	0.25	772	0.25	773	0.25	774	0.05	775	0.05
776	0.05	777	0.05	778	0.25	779	0.25	780	0.25
781	0.05	782	0.25	783	0.25	784	0.25	785	0.25
786	0.25	787	0.05	788	0.05	789	0.25	790	0.25
791	0.25	792	0.05	793	0.25	794	0.05	795	0.05
796	0.05	797	0.05	798	0.05	799	0.05	800	0.05
801	0.05	802	0.05	803	0.05	804	0.05	805	0.05
806	0.05	807	0.05	808	0.25	809	0.05	810	0.05
811	0.05	812	0.05	813	0.05	814	0.05	815	0.05
816	0.25	817	0.25	818	0.25	819	0.25	820	0.25
821	0.25	822	0.25	823	0.25	824	0.25	825	0.25
826	0.05	827	0.05	828	0.05	829	0.05	830	0.05

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3331    0.05 3332    0.05 3333    0.05 3334    0.05 3335    0.05
3336    0.05 3337    0.05 3338    0.05 3339    0.05 3340    0.05
3341    0.05 3342    0.05 3343    0.05 3344    0.05 3345    0.05
3346    0.05 3347    0.05 3348    0.05 3349    0.05 3350    0.05
3351    0.05 3352    0.05 3353    0.05 3354    0.05 3355    0.05
3356    0.05 3357    0.05 3358    0.05 3359    0.05
INITIAL HEAD ARRAY: INP,SFCT (I2,F10.0);' NODE, HEAD (FT) (5(I5,F10.0))
1   1.0000
  1 5096.6416   2 5096.9222   3 5096.0072   4 5097.2566   5 5096.1058
  6 5095.4489   7 5097.5197   8 5096.4103   9 5095.5517  10 5094.9426
 11 5098.1018  12 5097.4000  13 5095.7237  14 5095.0452  15 5094.5582
 16 5094.6151  17 5098.7487  18 5097.1177  19 5095.8701  20 5095.1945
 21 5094.7364  22 5094.2898  23 5094.3969  24 5099.6407  25 5097.5819
 26 5096.1891  27 5095.4000  28 5094.8695  29 5094.4950  30 5093.8055
 31 5094.0408  32 5100.7049  33 5098.4969  34 5096.6158  35 5095.5290
 36 5094.9972  37 5094.6841  38 5094.2342  39 5093.0204  40 5093.4629
 41 5101.2944  42 5099.5577  43 5097.1556  44 5095.7473  45 5095.2060
 46 5094.8395  47 5094.5189  48 5093.7911  49 5092.0584  50 5092.9724
 51 5102.0816  52 5100.5874  53 5098.1000  54 5096.1319  55 5095.3406
 56 5095.0299  57 5094.7682  58 5094.2201  59 5093.4537  60 5091.9879
 61  5092.42  62 5102.5952  63 5101.3349  64 5100.1215  65 5097.2687
 66 5096.4186  67 5095.2875  68 5094.9906  69 5094.7538  70  5093.69
 71 5092.8689  72 5091.7190  73 5091.9577  74 5103.0545  75 5101.6677
 76 5100.7341  77 5099.0190  78 5098.8655  79 5096.7758  80 5095.2894
 81 5094.9846  82 5094.5922  83 5093.6887  84 5092.4709  85 5091.2493
 86 5091.6292  87 5103.8159  88 5102.5153  89 5100.7280  90 5100.3641
 91 5101.4928  92 5099.6511  93 5098.3000  94 5095.9851  95 5095.2630
 96 5094.5672  97 5093.4982  98 5092.2104  99 5091.0390 100 5091.2684
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106 5090.7118 107 5090.6264 108 5090.4775 109 5090.3755 110 5090.5518
111 5090.7060 112 5090.6289 113 5090.6759 114 5091.0854 115 5091.7825
116 5091.7667 117 5092.1056 118 5092.9925 119 5095.7855 120 5096.5672
121 5098.9009 122 5100.0793 123 5100.0875 124 5100.1844 125 5101.4691
126 5103.3603 127 5104.3199 128 5105.1740 129 5105.2526 130 5106.2501
131 5106.9484 132 5107.4545 133 5107.8327 134 5108.7454 135 5108.6177
136 5108.6163 137 5108.9217 138 5109.4748 139 5110.0195 140 5110.6026
141 5112.4271 142 5114.6155 143 5105.0312 144 5103.9725 145 5102.3584
146 5099.3070 147 5096.8488 148 5095.8335 149 5094.7474 150 5093.6215
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251 5102.0836 252 5098.1489 253 5095.7569 254 5093.6027 255 5092.6491
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266 5094.7293 267 5096.6665 268 5097.9405 269 5099.7300 270 5100.5131
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311 5113.5122 312 5114.7187 313 5096.5406 314 5097.0882 315 5097.7313
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   25  1.17280    0.000    0.00
   26  2.05240    0.000    0.00
   27  2.34560    0.000    0.00
   28  4.03150    0.000    0.00
   29 15.97940    0.000    0.00
   30  0.03996    0.000    0.00
   31 30.19968    0.000    0.00
   32 19.70567    0.000    0.00
   33  0.51365    0.000    0.00
   34 37.13810    0.000    0.00
   35 35.08466    0.000    0.00
   36 34.76495    0.000    0.00
   37 30.76035    0.000    0.00
   38 67.41947    0.000    0.00
   39  0.01939    0.000    0.00
   40 40.05722    0.000    0.00
   41 94.80523    0.000    0.00
   42  3.25534    0.000    0.00
   43  6.87944    0.000    0.00
   44  3.39189    0.000    0.00
   45  0.00667    0.000    0.00
   46 -0.75715    0.000    0.00
   47 -0.75715    0.000    0.00
   48 -0.75715    0.000    0.00
   49 -0.75715    0.000    0.00
   50 -1.89467    0.000    0.00
   51 -1.89467    0.000    0.00
   52 -1.89467    0.000    0.00
   53 -1.89467    0.000    0.00
   54 -1.03401    0.000    0.00
   55 -1.03401    0.000    0.00
   56 -1.03401    0.000    0.00
   57 -1.03401    0.000    0.00
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58 0.00000 0.000 0.00
59 0.00000 0.000 0.00
60 -23.05097 0.000 0.00
61 -32.90975 0.000 0.00
62 7.42662 0.000 0.00
63 -12.03665 0.000 0.00
64 13.11146 0.000 0.00
65 -16.16509 0.000 0.00
66 -131.29794 0.000 0.00
67 -51.27368 0.000 0.00
68 -74.93688 0.000 0.00
69 -47.20008 0.000 0.00
70 -33.12642 0.000 0.00
71 -16.89155 0.000 0.00
72 -10.22913 0.000 0.00
73 1.10799 0.000 0.00
74 -0.40557 0.000 0.00
75 -1.28843 0.000 0.00
76 2.28924 0.000 0.00
77 -3.03639 0.000 0.00
78 -0.18435 0.000 0.00
79 1.53042 0.000 0.00
80 -0.24032 0.000 0.00
81 1.50910 0.000 0.00
82 0.76961 0.000 0.00
83 -0.20735 0.000 0.00
84 0.47021 0.000 0.00
85 1.74270 0.000 0.00
86 2.34524 0.000 0.00
87 3.92467 0.000 0.00
88 -0.90622 0.000 0.00
89 14.37600 0.000 0.00
90 -8.73412 0.000 0.00
91 -1.38269 0.000 0.00
92 0.33634 0.000 0.00
93 -3.32862 0.000 0.00
94 1.03531 0.000 0.00
95 -11.18642 0.000 0.00
96 -2.32159 0.000 0.00
97 -0.30986 0.000 0.00
98 -0.09587 0.000 0.00
99 -0.02074 0.000 0.00
100 -0.00151 0.000 0.00
101 0.00702 0.000 0.00
102 -0.02442 0.000 0.00
103 -0.09075 0.000 0.00
104 -0.20197 0.000 0.00
105 -0.19096 0.000 0.00
106 -0.59290 0.000 0.00
107 -0.82305 0.000 0.00
108 -1.44399 0.000 0.00
109 -2.08795 0.000 0.00
110 -1.41528 0.000 0.00
111 -2.09593 0.000 0.00
112 -1.23989 0.000 0.00
113 -0.97725 0.000 0.00
114 -1.46235 0.000 0.00
115 -0.54612 0.000 0.00
116 -0.36533 0.000 0.00
117 0.06802 0.000 0.00
118 -0.13435 0.000 0.00
119 0.22637 0.000 0.00
120 -0.00942 0.000 0.00
121 -0.13265 0.000 0.00
122 0.16430 0.000 0.00
123 0.02671 0.000 0.00
124 -0.02792 0.000 0.00
125 0.03127 0.000 0.00
126 -0.00940 0.000 0.00
127 -0.04960 0.000 0.00
128 0.07216 0.000 0.00
129 0.03457 0.000 0.00
130 0.01848 0.000 0.00
131 0.03328 0.000 0.00
132 -0.02891 0.000 0.00
133 -0.02201 0.000 0.00
134 -0.00408 0.000 0.00
135 0.01442 0.000 0.00
136 38.95630 0.000 0.00
137 -0.03792 0.000 0.00
138 -34.33861 0.000 0.00
139 0.02185 0.000 0.00
140 4.08017 0.000 0.00

```
141  0.03844   0.000   0.00
142 -9.77792   0.000   0.00
143  0.03035   0.000   0.00
144 -8.18122   0.000   0.00
145  0.01095   0.000   0.00
146 -9.97479   0.000   0.00
147 -0.07544   0.000   0.00
148 -3.49700   0.000   0.00
149 -0.00732   0.000   0.00
150 -3.47277   0.000   0.00
151  0.00342   0.000   0.00
152 -1.81462   0.000   0.00
153 -0.01941   0.000   0.00
154 -0.82363   0.000   0.00
155 -0.11265   0.000   0.00
156 -0.21490   0.000   0.00
157 -0.28868   0.000   0.00
158 -0.05096   0.000   0.00
159 -0.30613   0.000   0.00
160  0.16872   0.000   0.00
161 -0.22511   0.000   0.00
162 -0.03323   0.000   0.00
163 -0.18955   0.000   0.00
164 -0.22527   0.000   0.00
165 -0.19265   0.000   0.00
GHB CONDITIONS: NUMBS (I5)
  0
OBSERVED HEAD DATA(WELL NODEID,OBSERVED HEAD)(I10,F10.0)
 74
  22012 5143.470
  22025 5109.180
  22043 5091.860
  22049 5110.010
  22052 5090.260
  22054 5111.380
  23013 5138.240
  23058 5139.100
  23085 5138.250
  23096 5138.970
  23122 5135.630
  23134 5138.180
  23135 5144.100
  23150 5138.050
  23179 5139.860
  23182 5112.840
  23185 5139.990
  23188 5138.700
  23191 5139.980
  23223 5137.200
  24010 5139.590
  24092 5139.240
  24122 5155.854
  24200 5137.560
  25022 5212.730
  25028 5179.110
  26010 5161.760
  26015 5145.660
  26017 5145.450
  26020 5148.650
  26040 5147.030
  26041 5145.790
  26046 5145.680
  26049 5150.880
  26050 5156.920
  26062 5162.270
  26063 5183.150
  26065 5161.120
  26068 5159.030
  26073 5176.060
  26076 5151.410
  26081 5147.430
  26083 5152.550
  26085 5178.840
  26088 5142.300
  26124 5154.410
  26133 5146.720
  26143 5173.800
  26159 5199.750
  26160 5144.460
  26166 5151.110
  26168 5155.800
  26169 5148.270
  26170 5141.820
```

```
 26173 5148.600
 27003 5097.810
 27017 5147.630
 27019 5148.060
 27024 5124.790
 27040 5119.700
 27041 5112.720
 27051 5128.390
 27056 5097.330
 27059 5126.410
 27064 5093.250
 27072 5095.750
 27073 5097.930
 27080 5119.070
 27084 5135.820
 35031 5173.220
 35040 5164.400
 35048 5216.270
 35079 5199.060
 35091 5182.040
UPDATES FOR PUMPING PERIOD # 2
 PINT PRINTIT CHANGEM   (F10.0,4X,A1,1X,A4)
 90.00   Y BOTH
 NODEID REC   DRCOND   DRELEV (I5,3F10.0)
  1  0.00000   0.000   0.00
  2  0.00000   0.000   0.00
  3  0.00000   0.000   0.00
  4  0.00000   0.000   0.00
  5  0.00000   0.000   0.00
  6  0.00000   0.000   0.00
  7  0.00000   0.000   0.00
  8  0.00000   0.000   0.00
  9  0.00000   0.000   0.00
 10  0.00000   0.000   0.00
 11  0.00000   0.000   0.00
 12  0.00000   0.000   0.00
 13  0.00000   0.000   0.00
 14  0.00000   0.000   0.00
 15  1.30000   0.000   0.00
 16  0.00000   0.000   0.00
 17  0.25000   0.000   0.00
 18  2.77500   0.000   0.00
 19  3.87500   0.000   0.00
 20  3.45000   0.000   0.00
 21 05.80000   0.000   0.00
 22 07.55000   0.000   0.00
 23 11.43480   0.000   0.00
 24  1.24610   0.000   0.00
 25  1.17280   0.000   0.00
 26  2.05240   0.000   0.00
 27  2.34560   0.000   0.00
 28  4.03150   0.000   0.00
 29 15.97940   0.000   0.00
 30  0.02058   0.000   0.00
 31 36.86463   0.000   0.00
 32 24.46959   0.000   0.00
 33  0.00000   0.000   0.00
 34 43.42014   0.000   0.00
 35  7.51994   0.000   0.00
 36 29.65931   0.000   0.00
 37 30.89646   0.000   0.00
 38 77.76269   0.000   0.00
 39  0.02205   0.000   0.00
 40  2.54340   0.000   0.00
 41 95.52829   0.000   0.00
 42  2.27906   0.000   0.00
 43  4.81629   0.000   0.00
 44  2.37466   0.000   0.00
 45  0.03000   0.000   0.00
 46 -0.58528   0.000   0.00
 47 -0.58528   0.000   0.00
 48 -0.58528   0.000   0.00
 49 -0.58528   0.000   0.00
 50 -1.46459   0.000   0.00
 51 -1.46459   0.000   0.00
 52 -1.46459   0.000   0.00
 53 -1.46459   0.000   0.00
 54 -0.79929   0.000   0.00
 55 -0.79929   0.000   0.00
 56 -0.79929   0.000   0.00
 57 -0.79929   0.000   0.00
 58  0.00000   0.000   0.00
 59  0.00000   0.000   0.00
```

60	-23.10441	0.000	0.00
61	-32.98300	0.000	0.00
62	7.22125	0.000	0.00
63	-12.17736	0.000	0.00
64	12.89926	0.000	0.00
65	-16.47956	0.000	0.00
66	-131.70788	0.000	0.00
67	-51.75439	0.000	0.00
68	-75.43665	0.000	0.00
69	-47.76448	0.000	0.00
70	-33.54935	0.000	0.00
71	-17.21722	0.000	0.00
72	-10.51823	0.000	0.00
73	0.90592	0.000	0.00
74	-0.62149	0.000	0.00
75	-1.53413	0.000	0.00
76	2.28684	0.000	0.00
77	-3.07490	0.000	0.00
78	-0.30108	0.000	0.00
79	1.40027	0.000	0.00
80	-0.26193	0.000	0.00
81	1.41266	0.000	0.00
82	0.69999	0.000	0.00
83	-0.25962	0.000	0.00
84	0.46693	0.000	0.00
85	1.77473	0.000	0.00
86	2.40992	0.000	0.00
87	4.03353	0.000	0.00
88	-0.88352	0.000	0.00
89	13.98297	0.000	0.00
90	-8.64160	0.000	0.00
91	-1.46789	0.000	0.00
92	0.23492	0.000	0.00
93	-3.41963	0.000	0.00
94	0.91972	0.000	0.00
95	-11.76557	0.000	0.00
96	-2.51123	0.000	0.00
97	-0.33915	0.000	0.00
98	-0.12151	0.000	0.00
99	-0.02259	0.000	0.00
100	-0.00195	0.000	0.00
101	0.00854	0.000	0.00
102	-0.02180	0.000	0.00
103	-0.08627	0.000	0.00
104	-0.18999	0.000	0.00
105	-0.19146	0.000	0.00
106	-0.67064	0.000	0.00
107	-0.95578	0.000	0.00
108	-1.53340	0.000	0.00
109	-2.08650	0.000	0.00
110	-1.28399	0.000	0.00
111	-1.86141	0.000	0.00
112	-1.04165	0.000	0.00
113	-0.97542	0.000	0.00
114	-1.41333	0.000	0.00
115	-0.47715	0.000	0.00
116	-0.30227	0.000	0.00
117	0.13341	0.000	0.00
118	-0.09126	0.000	0.00
119	0.25947	0.000	0.00
120	0.01432	0.000	0.00
121	-0.11622	0.000	0.00
122	0.18468	0.000	0.00
123	0.04034	0.000	0.00
124	-0.01680	0.000	0.00
125	0.04141	0.000	0.00
126	-0.00137	0.000	0.00
127	-0.04376	0.000	0.00
128	0.07866	0.000	0.00
129	0.04039	0.000	0.00
130	0.02082	0.000	0.00
131	0.03242	0.000	0.00
132	-0.03133	0.000	0.00
133	-0.02600	0.000	0.00
134	-0.01430	0.000	0.00
135	0.00299	0.000	0.00
136	38.63945	0.000	0.00
137	-0.04397	0.000	0.00
138	-35.01601	0.000	0.00
139	0.02333	0.000	0.00
140	3.31579	0.000	0.00
141	0.04310	0.000	0.00
142	-10.56950	0.000	0.00

```
143  0.03033    0.000    0.00
144 -8.79322    0.000    0.00
145  0.00783    0.000    0.00
146 -10.23647   0.000    0.00
147 -0.07204    0.000    0.00
148 -3.60679    0.000    0.00
149  0.00162    0.000    0.00
150 -3.50922    0.000    0.00
151  0.00566    0.000    0.00
152 -1.88993    0.000    0.00
153 -0.02974    0.000    0.00
154 -0.88228    0.000    0.00
155 -0.13993    0.000    0.00
156 -0.24174    0.000    0.00
157 -0.33718    0.000    0.00
158 -0.06852    0.000    0.00
159 -0.35708    0.000    0.00
160  0.17013    0.000    0.00
161 -0.27335    0.000    0.00
162 -0.04197    0.000    0.00
163 -0.23405    0.000    0.00
164 -0.25312    0.000    0.00
165 -0.23064    0.000    0.00
 EL.ID  RECH.    VPRM    HDLEAK (I5,3F10.0)
  1  -0.0001   0.0000    0.00
  2  -0.0001   0.0000    0.00
  3  -0.0001   0.0000    0.00
  4  -0.0001   0.0000    0.00
  5  -0.0001   0.0000    0.00
  6  -0.0001   0.0000    0.00
  7  -0.0001   0.0000    0.00
  8  -0.0001   0.0000    0.00
  9  -0.0001   0.0000    0.00
 10  -0.0001   0.0000    0.00
 31 -0.00127   0.0000    0.00
 33 -0.00095   0.0000    0.00
 35  -0.0000   0.0000    0.00
 65  -0.0121   0.0000    0.00
UPDATES FOR PUMPING PERIOD # 3
  PINT PRINTIT CHANGEM   (F10.0,4X,A1,1X,A4)
  90.00   Y BOTH
  NODEID  REC   DRCOND   DRELEV (I5,3F10.0)
  1  0.00000   0.000    0.00
  2  0.00000   0.000    0.00
  3  0.00000   0.000    0.00
  4  0.00000   0.000    0.00
  5  0.00000   0.000    0.00
  6  0.00000   0.000    0.00
  7  0.00000   0.000    0.00
  8  0.00000   0.000    0.00
  9  0.00000   0.000    0.00
 10  0.00000   0.000    0.00
 11  0.00000   0.000    0.00
 12  0.00000   0.000    0.00
 13  0.00000   0.000    0.00
 14  0.00000   0.000    0.00
 15  1.30000   0.000    0.00
 16  0.00000   0.000    0.00
 17  0.25000   0.000    0.00
 18  2.77500   0.000    0.00
 19  3.87500   0.000    0.00
 20  3.45000   0.000    0.00
 21 05.80000   0.000    0.00
 22 07.55000   0.000    0.00
 23 11.43480   0.000    0.00
 24  1.24610   0.000    0.00
 25  1.17280   0.000    0.00
 26  2.05240   0.000    0.00
 27  2.34560   0.000    0.00
 28  4.03150   0.000    0.00
 29 15.97940   0.000    0.00
 30  0.19274   0.000    0.00
 31 33.04775   0.000    0.00
 32 14.54943   0.000    0.00
 33  0.00147   0.000    0.00
 34 41.06178   0.000    0.00
 35  0.03678   0.000    0.00
 36 28.92083   0.000    0.00
 37 88.40443   0.000    0.00
 38 60.81731   0.000    0.00
 39  0.00000   0.000    0.00
 40 46.64159   0.000    0.00
 41 33.07129   0.000    0.00
```

42	2.52935	0.000	0.00
43	5.34522	0.000	0.00
44	2.63544	0.000	0.00
45	0.34000	0.000	0.00
46	-0.71898	0.000	0.00
47	-0.71898	0.000	0.00
48	-0.71898	0.000	0.00
49	-0.71898	0.000	0.00
50	-1.79915	0.000	0.00
51	-1.79915	0.000	0.00
52	-1.79915	0.000	0.00
53	-1.79915	0.000	0.00
54	-0.98188	0.000	0.00
55	-0.98188	0.000	0.00
56	-0.98188	0.000	0.00
57	-0.98188	0.000	0.00
58	0.00000	0.000	0.00
59	0.00000	0.000	0.00
60	-22.88391	0.000	0.00
61	-32.69602	0.000	0.00
62	7.72661	0.000	0.00
63	-11.79272	0.000	0.00
64	13.31648	0.000	0.00
65	-16.02127	0.000	0.00
66	-131.21848	0.000	0.00
67	-51.31587	0.000	0.00
68	-75.03797	0.000	0.00
69	-47.36816	0.000	0.00
70	-33.23750	0.000	0.00
71	-16.95750	0.000	0.00
72	-10.25068	0.000	0.00
73	1.17436	0.000	0.00
74	-0.27658	0.000	0.00
75	-1.07084	0.000	0.00
76	2.57730	0.000	0.00
77	-2.94757	0.000	0.00
78	-0.16336	0.000	0.00
79	1.51965	0.000	0.00
80	-0.13665	0.000	0.00
81	1.53121	0.000	0.00
82	0.79904	0.000	0.00
83	-0.15677	0.000	0.00
84	0.60121	0.000	0.00
85	1.94643	0.000	0.00
86	2.58615	0.000	0.00
87	4.21659	0.000	0.00
88	-0.74147	0.000	0.00
89	14.23038	0.000	0.00
90	-8.56693	0.000	0.00
91	-1.34039	0.000	0.00
92	0.37196	0.000	0.00
93	-3.28508	0.000	0.00
94	1.05341	0.000	0.00
95	-11.26855	0.000	0.00
96	-2.21504	0.000	0.00
97	-0.18506	0.000	0.00
98	-0.05602	0.000	0.00
99	-0.00224	0.000	0.00
100	0.01838	0.000	0.00
101	0.03041	0.000	0.00
102	-0.00079	0.000	0.00
103	-0.06093	0.000	0.00
104	-0.15411	0.000	0.00
105	-0.15653	0.000	0.00
106	-0.65339	0.000	0.00
107	-0.93338	0.000	0.00
108	-1.47155	0.000	0.00
109	-1.96785	0.000	0.00
110	-1.11149	0.000	0.00
111	-1.68677	0.000	0.00
112	-0.90345	0.000	0.00
113	-0.96083	0.000	0.00
114	-1.36506	0.000	0.00
115	-0.42062	0.000	0.00
116	-0.24974	0.000	0.00
117	0.19012	0.000	0.00
118	-0.04424	0.000	0.00
119	0.30299	0.000	0.00
120	0.05118	0.000	0.00
121	-0.08671	0.000	0.00
122	0.22669	0.000	0.00
123	0.07738	0.000	0.00
124	0.01878	0.000	0.00

```
125  0.07814    0.000     0.00
126  0.03233    0.000     0.00
127 -0.01562    0.000     0.00
128  0.11471    0.000     0.00
129  0.07784    0.000     0.00
130  0.05755    0.000     0.00
131  0.05949    0.000     0.00
132 -0.00982    0.000     0.00
133 -0.00167    0.000     0.00
134  0.01341    0.000     0.00
135  0.02861    0.000     0.00
136 39.19635    0.000     0.00
137 -0.01628    0.000     0.00
138 -33.73046   0.000     0.00
139  0.05476    0.000     0.00
140  4.89590    0.000     0.00
141  0.07699    0.000     0.00
142 -8.84549    0.000     0.00
143  0.05894    0.000     0.00
144 -7.30433    0.000     0.00
145  0.04155    0.000     0.00
146 -9.48743    0.000     0.00
147 -0.03417    0.000     0.00
148 -3.26882    0.000     0.00
149  0.04060    0.000     0.00
150 -3.39075    0.000     0.00
151  0.04195    0.000     0.00
152 -1.80363    0.000     0.00
153  0.00156    0.000     0.00
154 -0.82881    0.000     0.00
155 -0.11060    0.000     0.00
156 -0.21099    0.000     0.00
157 -0.30121    0.000     0.00
158 -0.03226    0.000     0.00
159 -0.32007    0.000     0.00
160  0.21661    0.000     0.00
161 -0.23617    0.000     0.00
162  0.00867    0.000     0.00
163 -0.19588    0.000     0.00
164 -0.21054    0.000     0.00
165 -0.19116    0.000     0.00
 EL.ID  RECH.    VPRM     HDLEAK (I5,3F10.0)
  1  -0.0005  0.0000     0.00
  2  -0.0005  0.0000     0.00
  3  -0.0005  0.0000     0.00
  4  -0.0005  0.0000     0.00
  5  -0.0003  0.0000     0.00
  6  -0.0003  0.0000     0.00
  7  -0.0003  0.0000     0.00
  8  -0.0003  0.0000     0.00
  9  -0.0003  0.0000     0.00
 10  -0.0003  0.0000     0.00
 31 -0.00167  0.0000     0.00
 33 -0.00135  0.0000     0.00
 35  -0.0000  0.0000     0.00
 65  -0.0125  0.0000     0.00
UPDATES FOR PUMPING PERIOD # 4
  PINT PRINTIT CHANGEM    (F10.0,4X,A1,1X,A4)
   90.00   Y BOTH
  NODEID  REC   DRCOND    DRELEV (I5,3F10.0)
  1  0.00000   0.000     0.00
  2  0.00000   0.000     0.00
  3  0.00000   0.000     0.00
  4  0.00000   0.000     0.00
  5  0.00000   0.000     0.00
  6  0.00000   0.000     0.00
  7  0.00000   0.000     0.00
  8  0.00000   0.000     0.00
  9  0.00000   0.000     0.00
 10  0.00000   0.000     0.00
 11  0.00000   0.000     0.00
 12  0.00000   0.000     0.00
 13  0.00000   0.000     0.00
 14  0.00000   0.000     0.00
 15  1.30000   0.000     0.00
 16  0.00000   0.000     0.00
 17  0.25000   0.000     0.00
 18  2.77500   0.000     0.00
 19  3.87500   0.000     0.00
 20  3.45000   0.000     0.00
 21 05.80000   0.000     0.00
 22 07.55000   0.000     0.00
 23 11.43480   0.000     0.00
```

24	1.24610	0.000	0.00
25	1.17280	0.000	0.00
26	2.05240	0.000	0.00
27	2.34560	0.000	0.00
28	4.03150	0.000	0.00
29	15.97940	0.000	0.00
30	0.18829	0.000	0.00
31	25.97548	0.000	0.00
32	0.00000	0.000	0.00
33	0.00000	0.000	0.00
34	38.58411	0.000	0.00
35	0.00000	0.000	0.00
36	3.15367	0.000	0.00
37	52.50426	0.000	0.00
38	44.11461	0.000	0.00
39	42.30467	0.000	0.00
40	29.56212	0.000	0.00
41	6.16184	0.000	0.00
42	2.32960	0.000	0.00
43	4.92309	0.000	0.00
44	2.42731	0.000	0.00
45	0.03000	0.000	0.00
46	-0.74859	0.000	0.00
47	-0.74859	0.000	0.00
48	-0.74859	0.000	0.00
49	-0.74859	0.000	0.00
50	-1.87325	0.000	0.00
51	-1.87325	0.000	0.00
52	-1.87325	0.000	0.00
53	-1.87325	0.000	0.00
54	-1.02232	0.000	0.00
55	-1.02232	0.000	0.00
56	-1.02232	0.000	0.00
57	-1.02232	0.000	0.00
58	-118.5000	0.000	0.00
59	-127.9000	0.000	0.00
60	-17.71239	0.000	0.00
61	-22.12447	0.000	0.00
62	50.72384	0.000	0.00
63	17.27286	0.000	0.00
64	35.22105	0.000	0.00
65	-1.34117	0.000	0.00
66	-121.26754	0.000	0.00
67	-45.00870	0.000	0.00
68	-71.07982	0.000	0.00
69	-44.30846	0.000	0.00
70	-31.62340	0.000	0.00
71	-16.23601	0.000	0.00
72	-9.79893	0.000	0.00
73	1.49720	0.000	0.00
74	0.12815	0.000	0.00
75	-0.42506	0.000	0.00
76	2.95559	0.000	0.00
77	-2.86587	0.000	0.00
78	-0.02110	0.000	0.00
79	1.61913	0.000	0.00
80	-0.07500	0.000	0.00
81	1.61076	0.000	0.00
82	0.86090	0.000	0.00
83	-0.09300	0.000	0.00
84	0.68635	0.000	0.00
85	2.05889	0.000	0.00
86	2.69191	0.000	0.00
87	4.32885	0.000	0.00
88	-0.65747	0.000	0.00
89	14.60113	0.000	0.00
90	-8.60446	0.000	0.00
91	-1.24765	0.000	0.00
92	0.47570	0.000	0.00
93	-3.19278	0.000	0.00
94	1.15228	0.000	0.00
95	-10.84634	0.000	0.00
96	-1.99252	0.000	0.00
97	-0.07599	0.000	0.00
98	-0.01265	0.000	0.00
99	0.01300	0.000	0.00
100	0.03294	0.000	0.00
101	0.04603	0.000	0.00
102	0.01340	0.000	0.00
103	-0.04176	0.000	0.00
104	-0.12707	0.000	0.00
105	-0.12731	0.000	0.00
106	-0.62565	0.000	0.00

```
107 -0.88692    0.000    0.00
108 -1.39383    0.000    0.00
109 -1.85832    0.000    0.00
110 -0.97858    0.000    0.00
111 -1.56996    0.000    0.00
112 -0.81940    0.000    0.00
113 -0.95340    0.000    0.00
114 -1.33726    0.000    0.00
115 -0.38681    0.000    0.00
116 -0.21748    0.000    0.00
117  0.22642    0.000    0.00
118 -0.01387    0.000    0.00
119  0.33195    0.000    0.00
120  0.07627    0.000    0.00
121 -0.06629    0.000    0.00
122  0.25605    0.000    0.00
123  0.10376    0.000    0.00
124  0.04618    0.000    0.00
125  0.10832    0.000    0.00
126  0.06101    0.000    0.00
127  0.00873    0.000    0.00
128  0.14589    0.000    0.00
129  0.11220    0.000    0.00
130  0.08979    0.000    0.00
131  0.08157    0.000    0.00
132  0.00681    0.000    0.00
133  0.01894    0.000    0.00
134  0.03924    0.000    0.00
135  0.05227    0.000    0.00
136 39.79051    0.000    0.00
137  0.00875    0.000    0.00
138 -32.39414   0.000    0.00
139  0.08263    0.000    0.00
140  6.50840    0.000    0.00
141  0.10681    0.000    0.00
142 -7.08708    0.000    0.00
143  0.08303    0.000    0.00
144 -5.81684    0.000    0.00
145  0.07082    0.000    0.00
146 -8.77293    0.000    0.00
147 -0.00244    0.000    0.00
148 -2.95715    0.000    0.00
149  0.07242    0.000    0.00
150 -3.29710    0.000    0.00
151  0.07241    0.000    0.00
152 -1.73120    0.000    0.00
153  0.02928    0.000    0.00
154 -0.78648    0.000    0.00
155 -0.08276    0.000    0.00
156 -0.18935    0.000    0.00
157 -0.26297    0.000    0.00
158 -0.00479    0.000    0.00
159 -0.28098    0.000    0.00
160  0.25095    0.000    0.00
161 -0.19811    0.000    0.00
162  0.04913    0.000    0.00
163 -0.15818    0.000    0.00
164 -0.17334    0.000    0.00
165 -0.15430    0.000    0.00
 EL.ID  RECH.    VPRM    HDLEAK (I5,3F10.0)
  1  -0.0007   0.0000    0.00
  2  -0.0007   0.0000    0.00
  3  -0.0007   0.0000    0.00
  4  -0.0007   0.0000    0.00
  5  -0.0004   0.0000    0.00
  6  -0.0004   0.0000    0.00
  7  -0.0004   0.0000    0.00
  8  -0.0004   0.0000    0.00
  9  -0.0004   0.0000    0.00
 10  -0.0004   0.0000    0.00
 31  -0.00187  0.0000    0.00
 33  -0.00155  0.0000    0.00
 35  -0.0000   0.0000    0.00
 65  -0.0127   0.0000    0.00
UPDATES FOR PUMPING PERIOD # 5
  PINT PRINTIT CHANGEM   (F10.0,4X,A1,1X,A4)
  90.00   Y BOTH
  NODEID REC   DRCOND   DRELEV (I5,3F10.0)
  1  0.00000   0.000    0.00
  2  0.00000   0.000    0.00
  3  0.00000   0.000    0.00
  4  0.00000   0.000    0.00
  5  0.00000   0.000    0.00
```

6	0.00000	0.000	0.00
7	0.00000	0.000	0.00
8	0.00000	0.000	0.00
9	0.00000	0.000	0.00
10	0.00000	0.000	0.00
11	0.00000	0.000	0.00
12	0.00000	0.000	0.00
13	0.00000	0.000	0.00
14	0.00000	0.000	0.00
15	0.00000	0.000	0.00
16	0.00000	0.000	0.00
17	0.48920	0.000	0.00
18	0.00000	0.000	0.00
19	7.49010	0.000	0.00
20	0.48920	0.000	0.00
21	0.00000	0.000	0.00
22	0.03060	0.000	0.00
23	0.09170	0.000	0.00
24	0.09170	0.000	0.00
25	0.09170	0.000	0.00
26	0.09170	0.000	0.00
27	15.01090	0.000	0.00
28	0.00000	0.000	0.00
29	0.00000	0.000	0.00
30	0.20471	0.000	0.00
31	28.41458	0.000	0.00
32	22.42945	0.000	0.00
33	7.17198	0.000	0.00
34	42.55147	0.000	0.00
35	0.00000	0.000	0.00
36	2.14414	0.000	0.00
37	55.19799	0.000	0.00
38	64.14255	0.000	0.00
39	33.79919	0.000	0.00
40	50.08436	0.000	0.00
41	17.32765	0.000	0.00
42	0.92288	0.000	0.00
43	5.39639	0.000	0.00
44	4.07741	0.000	0.00
45	1.13000	0.000	0.00
46	-1.19145	0.000	0.00
47	-1.19145	0.000	0.00
48	-1.19145	0.000	0.00
49	-1.19145	0.000	0.00
50	-1.39227	0.000	0.00
51	-1.39227	0.000	0.00
52	-1.39227	0.000	0.00
53	-1.39227	0.000	0.00
54	-0.93545	0.000	0.00
55	-0.93545	0.000	0.00
56	-0.93545	0.000	0.00
57	-0.93545	0.000	0.00
58	-80.5000	0.000	0.00
59	-146.4000	0.000	0.00
60	-18.51770	0.000	0.00
61	-23.56409	0.000	0.00
62	47.41259	0.000	0.00
63	15.35095	0.000	0.00
64	34.31006	0.000	0.00
65	-2.34470	0.000	0.00
66	-122.19400	0.000	0.00
67	-45.76328	0.000	0.00
68	-71.65788	0.000	0.00
69	-44.82061	0.000	0.00
70	-31.96739	0.000	0.00
71	-16.46625	0.000	0.00
72	-10.00371	0.000	0.00
73	1.30624	0.000	0.00
74	-0.07701	0.000	0.00
75	-0.64529	0.000	0.00
76	2.69993	0.000	0.00
77	-3.00184	0.000	0.00
78	-0.22025	0.000	0.00
79	1.45063	0.000	0.00
80	-0.19831	0.000	0.00
81	1.46994	0.000	0.00
82	0.74520	0.000	0.00
83	-0.19792	0.000	0.00
84	0.59689	0.000	0.00
85	1.97730	0.000	0.00
86	2.59441	0.000	0.00
87	4.23060	0.000	0.00
88	-0.76006	0.000	0.00

```
 89 14.28135   0.000    0.00
 90 -8.65298   0.000    0.00
 91 -1.39405   0.000    0.00
 92  0.31116   0.000    0.00
 93 -3.34841   0.000    0.00
 94  0.99290   0.000    0.00
 95 -11.46323  0.000    0.00
 96 -2.26792   0.000    0.00
 97 -0.19606   0.000    0.00
 98 -0.07682   0.000    0.00
 99 -0.00372   0.000    0.00
100  0.01745   0.000    0.00
101  0.03180   0.000    0.00
102  0.00069   0.000    0.00
103 -0.05143   0.000    0.00
104 -0.13769   0.000    0.00
105 -0.15037   0.000    0.00
106 -0.66432   0.000    0.00
107 -0.93938   0.000    0.00
108 -1.44717   0.000    0.00
109 -1.90127   0.000    0.00
110 -1.01388   0.000    0.00
111 -1.60379   0.000    0.00
112 -0.86075   0.000    0.00
113 -0.96707   0.000    0.00
114 -1.36161   0.000    0.00
115 -0.40842   0.000    0.00
116 -0.23566   0.000    0.00
117  0.20981   0.000    0.00
118 -0.03072   0.000    0.00
119  0.31499   0.000    0.00
120  0.06079   0.000    0.00
121 -0.07956   0.000    0.00
122  0.23587   0.000    0.00
123  0.08404   0.000    0.00
124  0.02925   0.000    0.00
125  0.09295   0.000    0.00
126  0.04730   0.000    0.00
127 -0.00303   0.000    0.00
128  0.12969   0.000    0.00
129  0.09626   0.000    0.00
130  0.06977   0.000    0.00
131  0.06301   0.000    0.00
132 -0.01039   0.000    0.00
133 -0.00007   0.000    0.00
134  0.01780   0.000    0.00
135  0.03278   0.000    0.00
136 48.45687   0.000    0.00
137 -0.00969   0.000    0.00
138 -18.91841  0.000    0.00
139  0.06495   0.000    0.00
140  8.40587   0.000    0.00
141  0.08947   0.000    0.00
142 -4.91285   0.000    0.00
143  0.06648   0.000    0.00
144 -4.83322   0.000    0.00
145  0.05237   0.000    0.00
146 -8.63157   0.000    0.00
147 -0.02273   0.000    0.00
148 -3.01054   0.000    0.00
149  0.05080   0.000    0.00
150 -3.36621   0.000    0.00
151  0.04903   0.000    0.00
152 -1.81056   0.000    0.00
153  0.00352   0.000    0.00
154 -0.85614   0.000    0.00
155 -0.11386   0.000    0.00
156 -0.23077   0.000    0.00
157 -0.30701   0.000    0.00
158 -0.05082   0.000    0.00
159 -0.32887   0.000    0.00
160  0.20291   0.000    0.00
161 -0.24634   0.000    0.00
162 -0.00073   0.000    0.00
163 -0.20574   0.000    0.00
164 -0.21815   0.000    0.00
165 -0.19985   0.000    0.00
 EL.ID RECH.    VPRM    HDLEAK (I5,3F10.0)
  1  -0.0003  0.0000    0.00
  2  -0.0003  0.0000    0.00
  3  -0.0003  0.0000    0.00
  4  -0.0003  0.0000    0.00
  5  -0.0002  0.0000    0.00
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  6  -0.0002   0.0000     0.00
  7  -0.0002   0.0000     0.00
  8  -0.0002   0.0000     0.00
  9  -0.0002   0.0000     0.00
 10  -0.0002   0.0000     0.00
 31  -0.00147  0.0000     0.00
 33  -0.00115  0.0000     0.00
 35  -0.0000   0.0000     0.00
 65  -0.0123   0.0000     0.00
UPDATES FOR PUMPING PERIOD # 6
  PINT PRINTIT CHANGEM   (F10.0,4X,A1,1X,A4)
  90.00   Y BOTH
  NODEID REC   DRCOND   DRELEV (I5,3F10.0)
  1  0.00000   0.000     0.00
  2  0.00000   0.000     0.00
  3  0.00000   0.000     0.00
  4  0.00000   0.000     0.00
  5  0.00000   0.000     0.00
  6  0.00000   0.000     0.00
  7  0.00000   0.000     0.00
  8  0.00000   0.000     0.00
  9  0.00000   0.000     0.00
 10  0.00000   0.000     0.00
 11  0.00000   0.000     0.00
 12  0.00000   0.000     0.00
 13  0.00000   0.000     0.00
 14  0.00000   0.000     0.00
 15  0.00000   0.000     0.00
 16  0.00000   0.000     0.00
 17  0.35000   0.000     0.00
 18  0.35000   0.000     0.00
 19  6.80000   0.000     0.00
 20  7.00000   0.000     0.00
 21  1.60000   0.000     0.00
 22  0.00000   0.000     0.00
 23  8.00000   0.000     0.00
 24  0.00000   0.000     0.00
 25  0.00000   0.000     0.00
 26  0.00000   0.000     0.00
 27  0.00000   0.000     0.00
 28  1.00000   0.000     0.00
 29  0.65000   0.000     0.00
 30  0.15706   0.000     0.00
 31 22.14596   0.000     0.00
 32 25.45446   0.000     0.00
 33 19.70187   0.000     0.00
 34 28.98331   0.000     0.00
 35  0.86893   0.000     0.00
 36  2.05765   0.000     0.00
 37 59.49770   0.000     0.00
 38 62.53163   0.000     0.00
 39 28.37652   0.000     0.00
 40 52.17334   0.000     0.00
 41 34.49748   0.000     0.00
 42  0.65835   0.000     0.00
 43  3.84962   0.000     0.00
 44  2.90870   0.000     0.00
 45  2.59667   0.000     0.00
 46 -1.50010   0.000     0.00
 47 -1.50010   0.000     0.00
 48 -1.50010   0.000     0.00
 49 -1.50010   0.000     0.00
 50 -1.75295   0.000     0.00
 51 -1.75295   0.000     0.00
 52 -1.75295   0.000     0.00
 53 -1.75295   0.000     0.00
 54 -1.17778   0.000     0.00
 55 -1.17778   0.000     0.00
 56 -1.17778   0.000     0.00
 57 -1.17778   0.000     0.00
 58 -85.6000   0.000     0.00
 59 -147.2000  0.000     0.00
 60 -18.34052  0.000     0.00
 61 -23.24230  0.000     0.00
 62  48.47391  0.000     0.00
 63  16.04468  0.000     0.00
 64  34.79456  0.000     0.00
 65  -1.97255  0.000     0.00
 66-121.89045  0.000     0.00
 67 -45.55314  0.000     0.00
 68 -71.50349  0.000     0.00
 69 -44.69394  0.000     0.00
 70 -31.88868  0.000     0.00
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71	-16.42216	0.000	0.00
72	-9.97397	0.000	0.00
73	1.32381	0.000	0.00
74	-0.08586	0.000	0.00
75	-0.71857	0.000	0.00
76	2.68563	0.000	0.00
77	-2.97095	0.000	0.00
78	-0.20337	0.000	0.00
79	1.47848	0.000	0.00
80	-0.16834	0.000	0.00
81	1.50463	0.000	0.00
82	0.77276	0.000	0.00
83	-0.16725	0.000	0.00
84	0.63591	0.000	0.00
85	2.02043	0.000	0.00
86	2.63226	0.000	0.00
87	4.26361	0.000	0.00
88	-0.73163	0.000	0.00
89	14.25241	0.000	0.00
90	-8.60653	0.000	0.00
91	-1.37175	0.000	0.00
92	0.33379	0.000	0.00
93	-3.32285	0.000	0.00
94	1.01634	0.000	0.00
95	-11.38817	0.000	0.00
96	-2.20689	0.000	0.00
97	-0.16137	0.000	0.00
98	-0.06382	0.000	0.00
99	-0.00435	0.000	0.00
100	0.01728	0.000	0.00
101	0.03292	0.000	0.00
102	0.00347	0.000	0.00
103	-0.04543	0.000	0.00
104	-0.13280	0.000	0.00
105	-0.15136	0.000	0.00
106	-0.67041	0.000	0.00
107	-0.94702	0.000	0.00
108	-1.45167	0.000	0.00
109	-1.90036	0.000	0.00
110	-1.01014	0.000	0.00
111	-1.60177	0.000	0.00
112	-0.86123	0.000	0.00
113	-0.96708	0.000	0.00
114	-1.36174	0.000	0.00
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116	-0.23589	0.000	0.00
117	0.20948	0.000	0.00
118	-0.03100	0.000	0.00
119	0.31463	0.000	0.00
120	0.06037	0.000	0.00
121	-0.07998	0.000	0.00
122	0.23517	0.000	0.00
123	0.08327	0.000	0.00
124	0.02841	0.000	0.00
125	0.09209	0.000	0.00
126	0.04655	0.000	0.00
127	-0.00365	0.000	0.00
128	0.12885	0.000	0.00
129	0.09501	0.000	0.00
130	0.06831	0.000	0.00
131	0.06156	0.000	0.00
132	-0.01185	0.000	0.00
133	-0.00229	0.000	0.00
134	0.01516	0.000	0.00
135	0.03099	0.000	0.00
136	50.48515	0.000	0.00
137	-0.01100	0.000	0.00
138	-16.12913	0.000	0.00
139	0.06391	0.000	0.00
140	7.86760	0.000	0.00
141	0.08855	0.000	0.00
142	-5.19966	0.000	0.00
143	0.06573	0.000	0.00
144	-4.97598	0.000	0.00
145	0.05112	0.000	0.00
146	-8.64833	0.000	0.00
147	-0.02448	0.000	0.00
148	-3.00482	0.000	0.00
149	0.04838	0.000	0.00
150	-3.36518	0.000	0.00
151	0.04567	0.000	0.00
152	-1.82073	0.000	0.00
153	-0.00088	0.000	0.00

154	-0.86951	0.000	0.00
155	-0.12011	0.000	0.00
156	-0.23708	0.000	0.00
157	-0.31814	0.000	0.00
158	-0.06010	0.000	0.00
159	-0.34123	0.000	0.00
160	0.19381	0.000	0.00
161	-0.25853	0.000	0.00
162	-0.01081	0.000	0.00
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EL.ID	RECH.	VPRM	HDLEAK (I5,3F10.0)
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4	-0.0004	0.0000	0.00
5	-0.0002	0.0000	0.00
6	-0.0002	0.0000	0.00
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10	-0.0002	0.0000	0.00
31	-0.00157	0.0000	0.00
33	-0.00125	0.0000	0.00
35	-0.0000	0.0000	0.00
65	-0.0124	0.0000	0.00

REPORT DOCUMENTATION PAGE

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14. ABSTRACT

The groundwater flow system at Rocky Mountain Arsenal (RMA) is complex. To evaluate proposed remedial alternatives, interaction of the local groundwater flow system with the present contamination control systems must be understood. The purpose of this modeling effort is to provide a tool for evaluation and relative comparison of groundwater remedial alternatives. The model provides a method to assess the local groundwater impact of each remedial alternative. Results from the modeling effort will be used to compare the preliminary design of various remedial alternatives and allow general modification and reconfiguration of those designs to optimize their performance as part of the Detailed Analysis of Alternatives (DAA) of the Feasibility Study (FS).

Specific objectives of the modeling effort were developed based on the FS modeling needs established by RMA. Objectives are used to assist in defining the goals and associated scope of work of the modeling effort and address the need for modeling during the DAA of the FS, which requires comparison of remedial alternatives that have been retained. Objectives also allow for some flexibility in the analysis, such as combination or addition of remedial alternatives during subsequent phases of the FS.

(Continued)

15. SUBJECT TERMS

Basin F
Groundwater modeling
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14. (Concluded)

This modeling effort accounts for groundwater flow in the upper Denver Fm. This approach differs from the majority of previous modeling efforts, which treat unsaturated alluvium areas as impermeable and do not address flow in the Denver Fm. Exchange of groundwater between the alluvium and the Denver Fm sands, basins, and precipitation infiltration is handled by areal inputs.

The model was calibrated by applying the existing concepts of flow in the modeled area to reproduce known water levels, groundwater discharge and recharge, and the flux through the aquifer system and across boundaries.

It is the intent of this modeling effort to incorporate all current pertinent hydrogeologic data into the model. Corrections to the RMA database and data from other ongoing modeling activities were incorporated when possible.