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NAS PENSACOLA GROUNDWATER FLOW MODEL

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Release of this document requires prior notification of the Commanding Officer of the Naval Air Station, Pensacola, Florida.

Table of Contents

1.0 INTRODUCTION 1-1
1.1 General Setting 1-1
1.2 Model Uses and the Study Objective 1-3

2.0 CONCEPTUAL MODEL 2-1
2.1 Data Collection Effort 2-1
2.1.1 Establishment of Monitoring Network 2-1
2.1.2 Installation of Additional Piezometers 2-1
2.1.3 Staff Gauges/stream Gauging Stations 2-3
2.1.4 Abbreviated Well Network 2-3
2.1.5 Synoptic Water Level Measurements 2-3
2.1.6 Aquifer Testing 2-3
2.2 Aquifer System Framework 2-6
2.2.1 Regional Aquifer Framework 2-6
2.2.2 Local Aquifer Framework 2-6

3.0 COMPUTER CODE AND MODELING PLATFORM 3-1

4.0 GROUNDWATER FLOW MODEL CONSTRUCTION 4-1
4.1 Preliminary Assumptions 4-1
4.2 Horizontal Grid Design 4-1
4.3 Vertical Grid Design 4-1
4.4 Temporal Domain 4-6
4.5 Aquifer Hydraulics 4-6
4.6 Recharge and Evapotranspiration 4-8
4.7 Wetlands and Streams 4-8
4.8 Hydrologic Boundaries 4-12
4.8.1 Inactive Cells 4-12
4.8.2 Constant Head Boundaries 4-12
4.8.3 Sources and Sinks 4-14
4.9 Calibration Well Network 4-14
4.10 Calibration Target 4-14

5.0 MODEL CALIBRATION 5-1
5.1 Solver 5-1
5.2 Calibration Procedure 5-1
5.2.1 Calibration Results 5-6
5.2.2 Average Error of the System 5-6
5.2.3 Residual Analysis 5-8
5.2.4 Water Budget 5-9
5.3 Sensitivity Analyses 5-9

Table of Contents -Continued

5.3.1 Hydraulic Conductivity Sensitivity 5-11
5.3.2 Recharge Sensitivity 5-16

6.0 SUMMARY AND CONCLUSION 6-1

7.0 REFERENCES 7-1

List of Figures

Figure 1-1 Basewide Map of NAS Pensacola..... 1-2
Figure 2-1 Locations of Installed Wells 2-2
Figure 2-2 Locations of Staff Gauges 2-4
Figure 2-3 Abbreviated Well Network 2-5
Figure 2-4 Cross Section of Conceptual Model 2-7
Figure 4-1 Groundwater Flow Model 4-2
Figure 4-2a Topographic Surface of NAS Pensacola. View to the West..... 4-3
Figure 4-2b Topographic Surface of NAS Pensacola. View to the East..... 4-4
Figure 4-3 Bottom clay layer..... 4-5
Figure 4-4 Recharge Zones 4-9
Figure 4-5 Location of Wetlands and Streams 4-10
Figure 4-6 Inactive (gray) Cells within Model Grid 4-12
Figure 4-7 Constant (specified head) Boundaries 4-13
Figure 4-8 Groundwater Flow Model Calibration Well Network 4-15
Figure 5-1 Solution Array 5-3
Figure 5-2 Hydraulic Conductivity Distribution for Calibrated Flow Model 5-4
Figure 5-3 Spatial Variation of Recharge for Calibrated Flow Model 5-5
Figure 5-4 Calculated Heads Versus Observed Heads 5-7
Figure 5-5 Residual Plot NAS Pensacola..... 5-10
Figure 5-6 Hydraulic Conductivity Property 1 5-12
Figure 5-7 Hydraulic Conductivity Property 2 5-13
Figure 5-8 Hydraulic Conductivity Property 3 5-14
Figure 5-9 Hydraulic Conductivity Property 4 5-15
Figure 5-10 Recharge Property 5-17
Figure 5-11 Recharge Property 2 5-18

List of Tables

Table 4.1 Shallow Zone Transmissivity by Aquifer Test Method (ft^2/d) 4-7
Table 4.2 Intermediate Zone Transmissivity by Aquifer Test Method (ft^2/d) 4-7
Table 6.1 Summary of Calibrated Groundwater Flow Model Construction 6-1

List of Appendices

Appendix A Synoptic Water Level Measurement
Appendix B Aquifer Testing
Appendix C MODFLOW Input/Output Files

List of Attachments

Attachment 1 Data Logger Files
Attachment 2 Aqtesolv Input Files/Analytical Curve Matches

1.0 INTRODUCTION

As the Installation Restoration (IR) Program at Naval Air Station Pensacola migrates from site assessment to the site remediation phase, the need for understanding the occurrence and movement of shallow groundwater has become essential. This understanding is critical and integral to selecting and implementing remedial options, and to the evaluation of less proactive approaches such as natural attenuation. The basic tool in these types of activities is the groundwater model. While models certainly are not the ultimate answer, they provide an aid to integrate with all other site data, and to arrive at the most reasonable decisions.

Several site-specific numerical and analytical groundwater models have been constructed for NASP. However, these models were constructed almost as "islands unto themselves" as they did not consider hydrologic information outside of the site boundary. Consequently, this base-wide model has been developed to provide that larger framework. Its intended use is to provide the initial boundary conditions for a site such that the site-specific model can be constructed much more rapidly and with more validity and accuracy.

1.1 General Setting

Naval Air Station (NAS) Pensacola is located in the Gulf Coast lowlands on a peninsula bounded by Pensacola Bay to the south and east and Bayou Grande to the North (Figure 1-1). The main topographic feature is a bluff paralleling the southern and eastern shorelines of the peninsula. Landward of the bluff is a gently rolling upland with elevations up to 40 feet above msl (United States Geological Survey [USGS] 1970a and 1970b). In the eastern part of the base, a low and nearly level marine terrace lies east of the bluff with elevations of approximately 5 feet or less above msl, comprising the areas of Chevalier Field and Magazine Point.

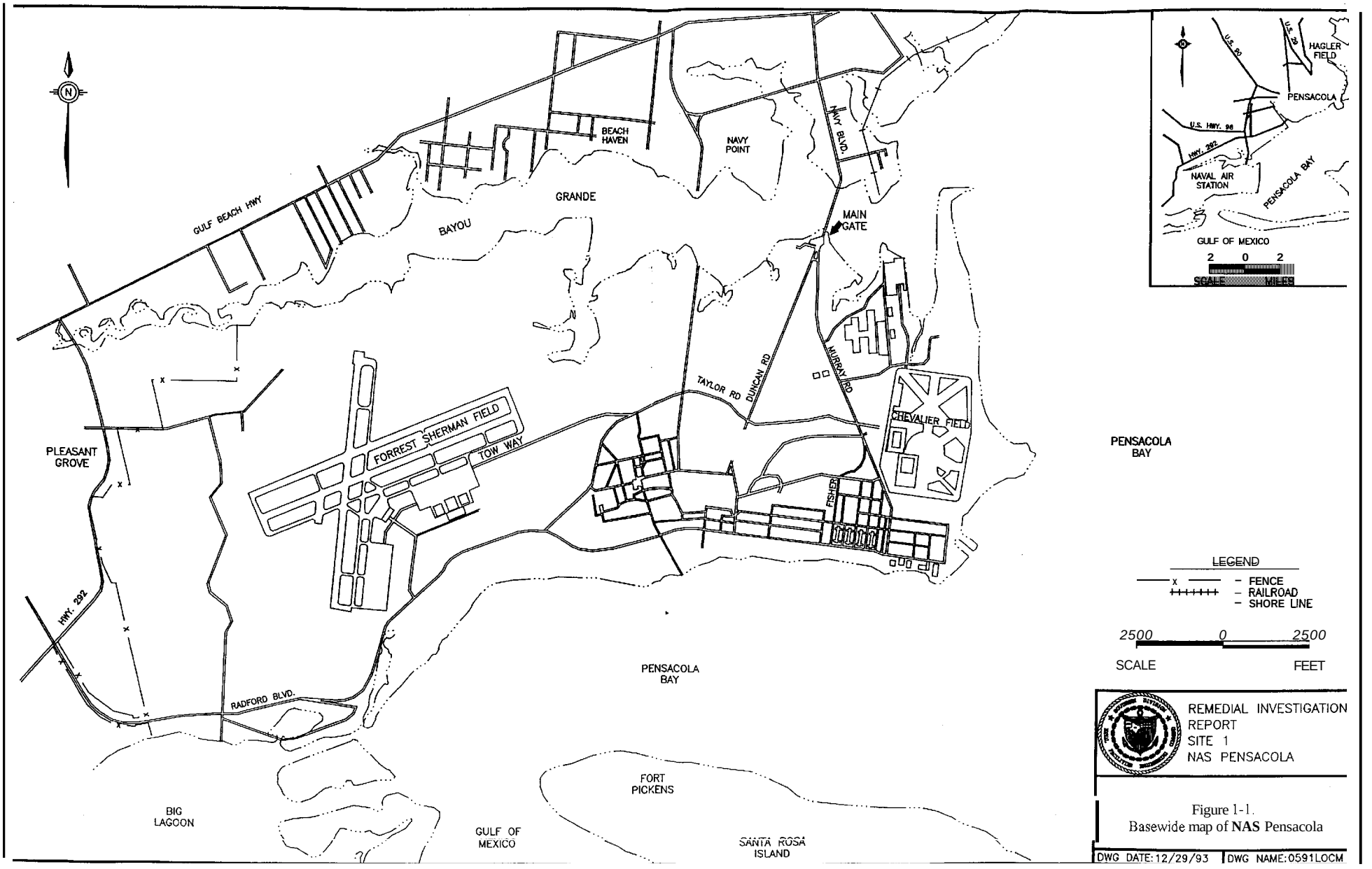


Figure 1-1.
Basewide map of **NAS** Pensacola

Stratigraphy beneath the Florida Panhandle, in general, consists of quaternary terrace marine and fluvial deposits, underlain by a thick sequence of interlayered fine-grained clastic deposits and carbonate strata of tertiary age (Southeastern Geological Survey [SEGS 1986]).

1.2 Model Uses and the Study Objective

The purpose of a base-wide model for NAS Pensacola is to provide boundary conditions for future site-specific groundwater flow models. The level of detail necessary to address all areas of concern **(AOCs)** on **NAS** Pensacola with a single model would be an extremely detailed and time consuming task. The present model will facilitate the establishment of boundary conditions for specific **AOCs** where strong hydrogeologic features are not present, e.g., groundwater divides, rivers, no-flow boundaries, etc. Model boundaries can be established from groundwater flux into and out of an AOC using the base-wide flow model. The flux data can be used to construct constant flow or constant head boundaries if needed.

Groundwater flow models are mainly used in two different modes: crisis mode and management mode. Crisis mode groundwater flow models are usually used to answer pressing questions concerning such issues as where contamination is going, or, how long will it take for contamination to move off site? Crisis mode models tend to be shelved after they have given answers deemed adequate for the present crisis, but their degree of validity may be questionable. The validity of a crisis mode model is dependent upon the amount of available data for construction. Management mode models are constructed for the long term management of an aquifer system, such as a municipal well field. The advantage of a management mode model is that its validity is continually tested and modifications to the model are continually being implemented as new data about the site is acquired. The **NAS** Pensacola groundwater flow model is a management mode model which can be used through reduction of the domain, to rapidly construct valid site-specific crisis-mode models on a case-by-case basis. As more site specific models are constructed they can be incorporated into the larger base wide model, thus improving the base wide model's overall performance.

2.0 CONCEPTUAL MODEL

The conceptual model presented in this section is based primarily on the work conducted by Ecology and Environment (E&E, 1990-1992) and EnSafe/Allen and Hoshall (E/A&H, 1992-present). Formulating the most appropriate conceptual model is the critical step in creating a useful groundwater flow model.

2.1 Data Collection Effort

The data collection effort consisted of establishing a monitoring well network, installation of additional wells/piezometers, installation of staff gauges and stream gauging stations, establishment of an abbreviated well network for long-term water level measurements, synoptic water level measurements, and aquifer testing (see Section 2.1.1).

2.1.1 Establishment of Monitoring Network

Over 800 monitoring wells/piezometers are available facility wide. The network consists of wells from:

1) Installation Restoration (IR) Program work (Geraghty and Miller, Ecology & Environmental, EnSafe/Allen & Hoshall)
2) Underground storage tank (UST) work (ABB)
3) Public Works Center (PWC) UST work.

IR wells will be the primary supplier of wells for providing the monitoring well network, and to provide hydraulic data.

2.1.2 Installation of Additional Piezometers

Due to the biased coverage of previously existing monitoring wells/piezometers on the facility (model domain), twenty-seven additional piezometers were installed (Figure 2-1). Many of these

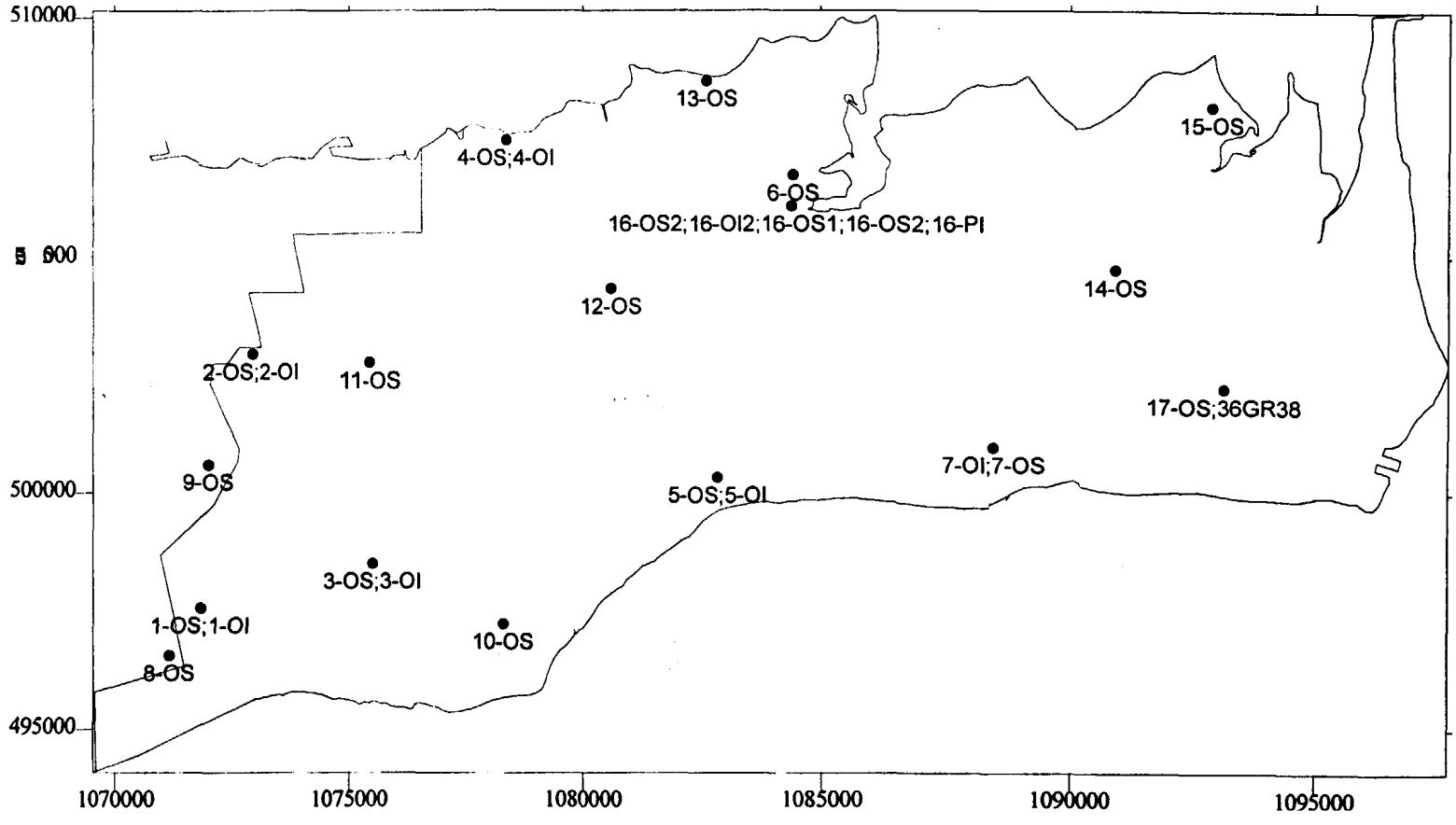


Figure 2-1. Location of wells installed in support of NAS Pensacola numeric groundwater flow model. (NOTE: All Figure axes are in feet unless otherwise noted)

wells were installed as well pairs. One well of the pair is screened in the top of the surficial layer, the second is screened deeper in the surficial layer. This arrangement was used to gauge the potential for vertical flow, if any.

2.1.3 Staff Gauges/Stream Gauging Stations

Seventeen staff/stream gauges were established at regular distances around the perimeter of the facility and at locations on-base where groundwater discharge is thought to be occurring, or where stream flow has been observed (Figure 2-2).

2.1.4 Abbreviated Well Network

The abbreviated well network was used for the long-term water level measurements. It consists of 181 wells chosen randomly from the over 800 available monitoring wells/piezometers base-wide (Figure 2-3). Water levels were measured in accordance with *CSAP*.

2.1.5 Synoptic Water Level Measurements

Synoptic water level measurements were taken at 35 locations throughout NAS Pensacola from November 1996 to February 1997 (Appendix A). Water level measurements at all 35 locations were collected on a weekly basis from December 20, 1996 through February 7, 1997. Synoptic water levels were collected to assess the spatial variability of seasonal changes in ground water elevation.

2.1.6 Aquifer Testing

See Section 4.5

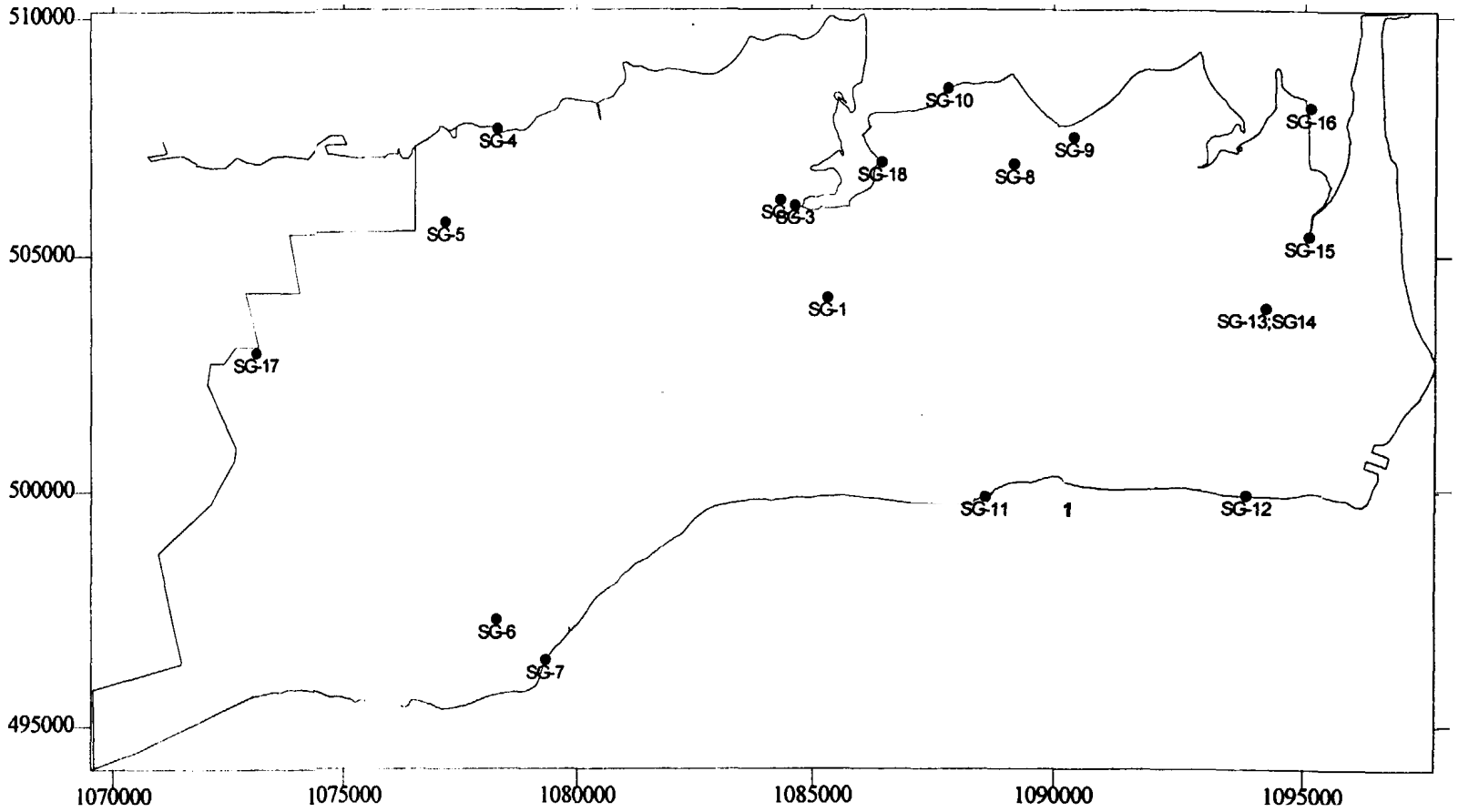


Figure 2-2. Location of staff gauges installed in support of NAS Pensacola groundwater flow model.

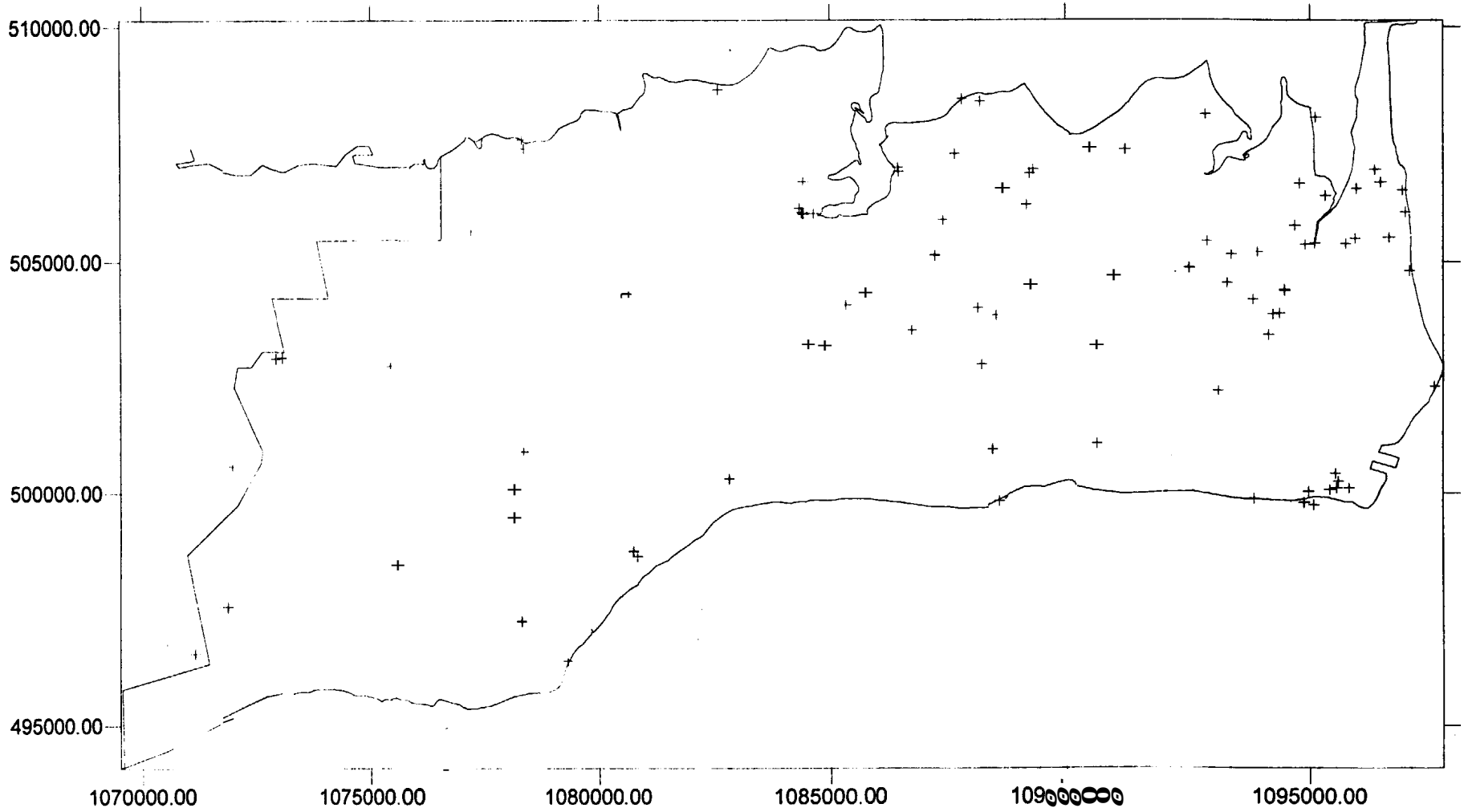


Figure 2-3. Abbreviated well network

2.2 Aquifer System Framework

2.2.1 Regional Aquifer Framework

The near surface hydrogeology in the Pensacola, Florida area is composed of clastic deposits and is approximately 300 feet thick at NAS Pensacola. Geologically, the near surface hydrogeology correlates with near-surface Quaternary terrace marine fluvial deposits, down to the Tertiary Citronelle Formation (SEGS 1986).

2.2.2 Local Aquifer Framework

The aquifer framework below NAS Pensacola can be described as 2 Layers (Figure 2-4). The first layer exposed at the surface is composed primarily of sand and is approximately 40 feet thick. Porosity is approximately 40%, typical for sand (Domenico an Schwartz, 1990). Layer 1 is assumed homogeneous, isotropic, and unconfined. There appears to be some hydrogeologic stratification but none significant enough to merit separating the unconfined aquifer into 2 layers as initially proposed (EnSafe, September, 1996). Layer 2 is composed primarily of clay; and is characterized by conductivities which classify it as functionally impermeable. All documented groundwater contamination is restricted to Layer 1. Given this and the low permeability of Layer 2, it then becomes the lower limit of the modeling effort.

Streams located on NAS Pensacola are typically very shallow. Streams tend to act as sources or sinks (i.e., losing or gaining streams). The natural streams on NAS Pensacola have little or no effect on local groundwater hydraulics. The major conduits of surface water flow are cement lined or piped drainage for storm waters. These basin are effectively isolated from the underlying flow system in most cases.

Wetlands were originally thought to be major sinks for groundwater in the system, but upon evaluation of groundwater elevation data in the vicinity of the wetlands it is seen that the

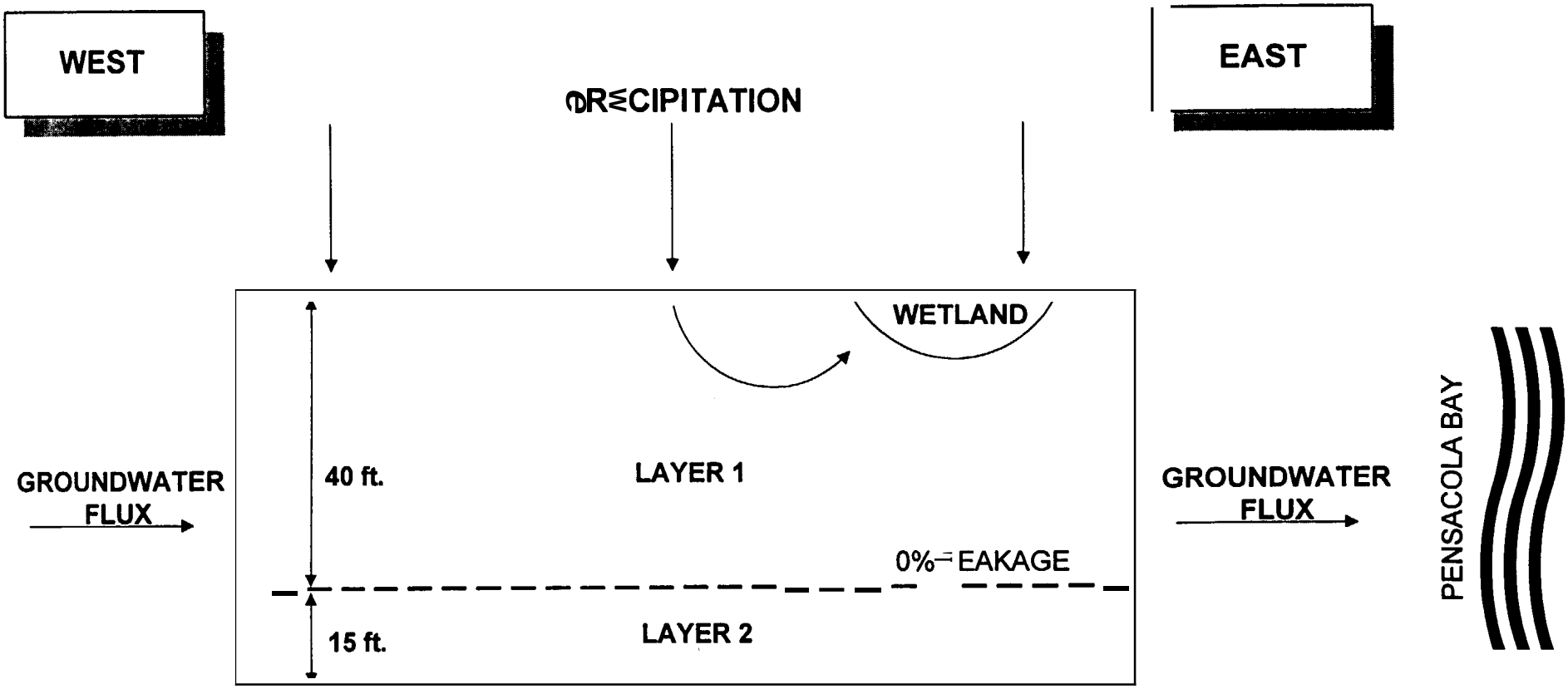


FIGURE 2-4. CROSS SECTION OF CONCEPTUAL MODEL FOR NAS PENSACOLA

piezometric surface is negligibly influenced by nearby wetlands. Regional upgradient direction for Layer 1 is to the west. In addition to upgradient flux, recharge to Layer 1 is presumed to be the result of direct infiltration of precipitation minus transpiration and evaporation; except for paved areas, runoff is expected to be minimal. Discharge is expected to occur at Bayou Grande in the North and Pensacola Bay to the east and south. Regional flow is expected to be from west to east. The initial Conceptual Model described the surficial as being comprised of two layers, a shallow (0-20 ft. below ground surface (BGS)) and an intermediate (20-40 BGS) layer. The shallow layer, based on slug and specific capacity test data, had characteristically high hydraulic conductivities while similar test data on the intermediate zone indicated relatively low hydraulic conductivities. Based on a) little heterogeneity between layers lithologically; b) aquifer test data which disputed the previous data regarding vertical differences in K; and c) unhindered hydraulic connection between the shallow and intermediate zones, the basis conceptual model for this effort was revised to regard the surficial as a single layer. This change is further elaborated on in later sections.

3.0 COMPUTER CODE AND MODELING PLATFORM

The computer code selected for the NAS Pensacola flow model is MODFLOW (McDonald and Harbaugh, 1988). The MODFLOW code satisfies the code selection criteria set forth in Anderson and Woesner, 1992: (1) Has the code been verified? (2) **Does** the code contain a water balance calculation? (3) Has the code been successfully used in other field studies?

The platform selected for the NAS Pensacola flow model is Visual MODFLOW 1.49-VB (Waterloo Hydrogeologic Software, 1995). This platform was chosen because of its graphical pre-processing and post-processing user interface. The implementation and subsequent modification of input data is achieved much more efficiently with Visual MODFLOW as compared to **DOS** based pre-processors, e.g., MODINP by Techsoft, Inc. The post-processor in Visual MODFLOW gives an adequate visual depiction of the solution array as well as residual statistics and water balance calculations. Also, the ability to read drawing exchange format **(DXF)** files allows grid design directly over a map of the model domain. This feature also allows a more accurate depiction of Surfer (Golden Software, Inc., 1994) output, such as the interpolated distribution of hydraulic conductivity, by directly depicting Surfer output graphics within Visual **MODFLOW.**

4.0 GROUNDWATER FLOW MODEL CONSTRUCTION

4.1 Preliminary Assumptions

1) All flow is horizontal.

2) Steady-state conditions exist in the aquifer.

3) No sources or sinks exist within the aquifer.

4) One fluid (freshwater only).

4.2 Horizontal Grid Design

The model has been constructed as a uniform grid that consists of 145 columns and 85 rows (Figure 4-1). The grid was designed with a uniform grid spacing because of the general nature of the model. Variable grid spacing is not appropriate because no one portion of the model is more important than any other and because no large-scale significant hydraulic features (e.g., sinks or sources) are present within the domain. Each grid cell is 200 ft by 200 ft. The 200 ft grid size was chosen to balance the need for detail with the need for generality. The total east-west length of the model domain is 29,000 ft (5.49 miles or 8.84 km). The total north-south length of the model domain is 17,000 ft (3.22 miles or 5.18 km). No modifications have been made to the horizontal grid design after initial construction.

4.3 Vertical Grid Design

The top of the final model is defined by the topographic surface of the peninsula (Figures 4-2a and 2b). The available topographic data obtained from a 1992 fly-over, covers most but not all of the peninsula. The western boundary a been established at the western limit of the available topographic data. The bottom of the model is based upon the elevation of the lower confining clay layer that underlies the entire facility (Figure 4-3). The elevation of the clay layer was determined from 49 onsite well logs. Clay depths were then extrapolated throughout the model domain by kriging, a common geostatistical technique. The kriged data was then imported into Visual MODFLOW.

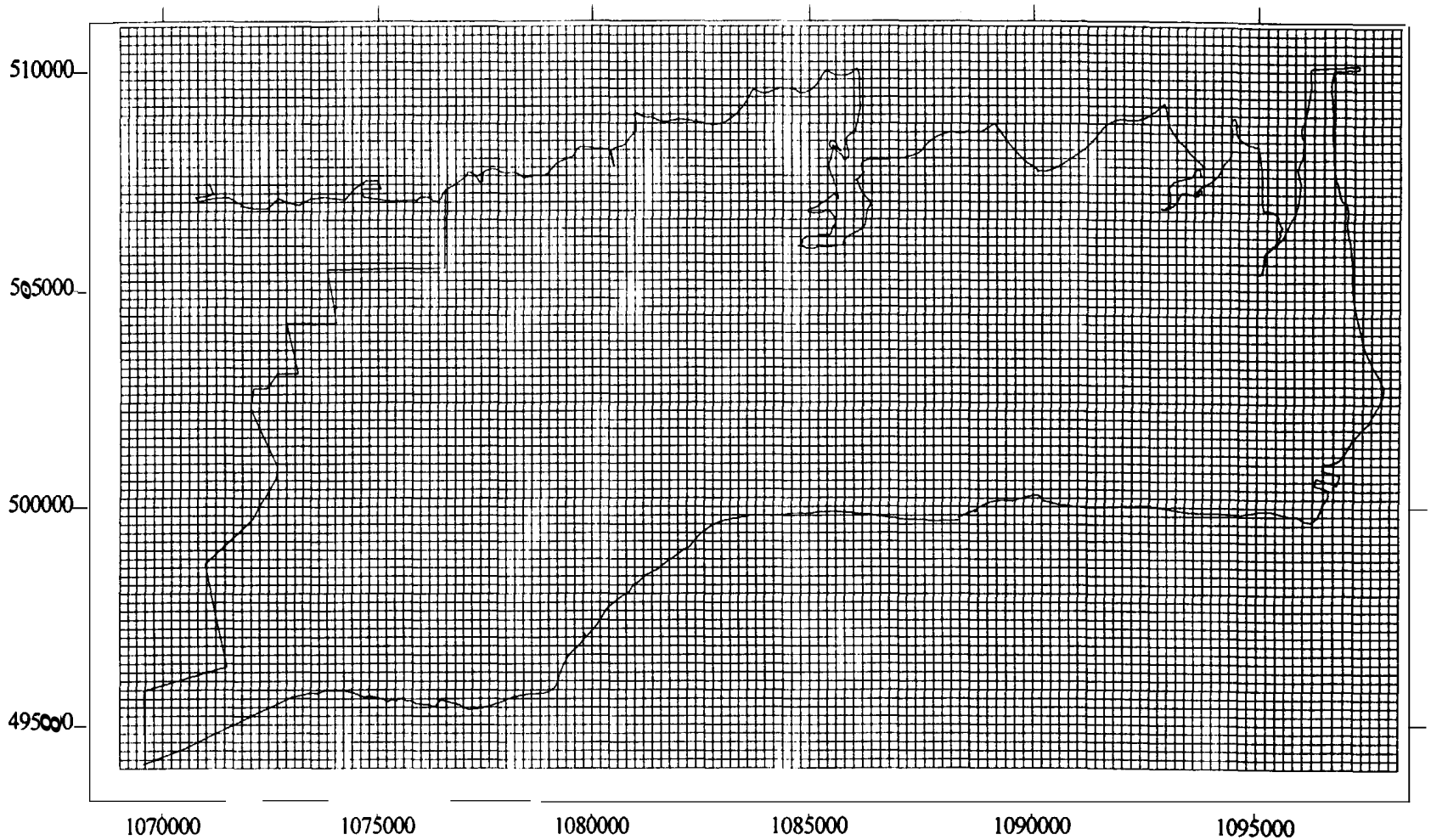


Figure 4-1. NAS Pensacola groundwater flow model finite difference grid.

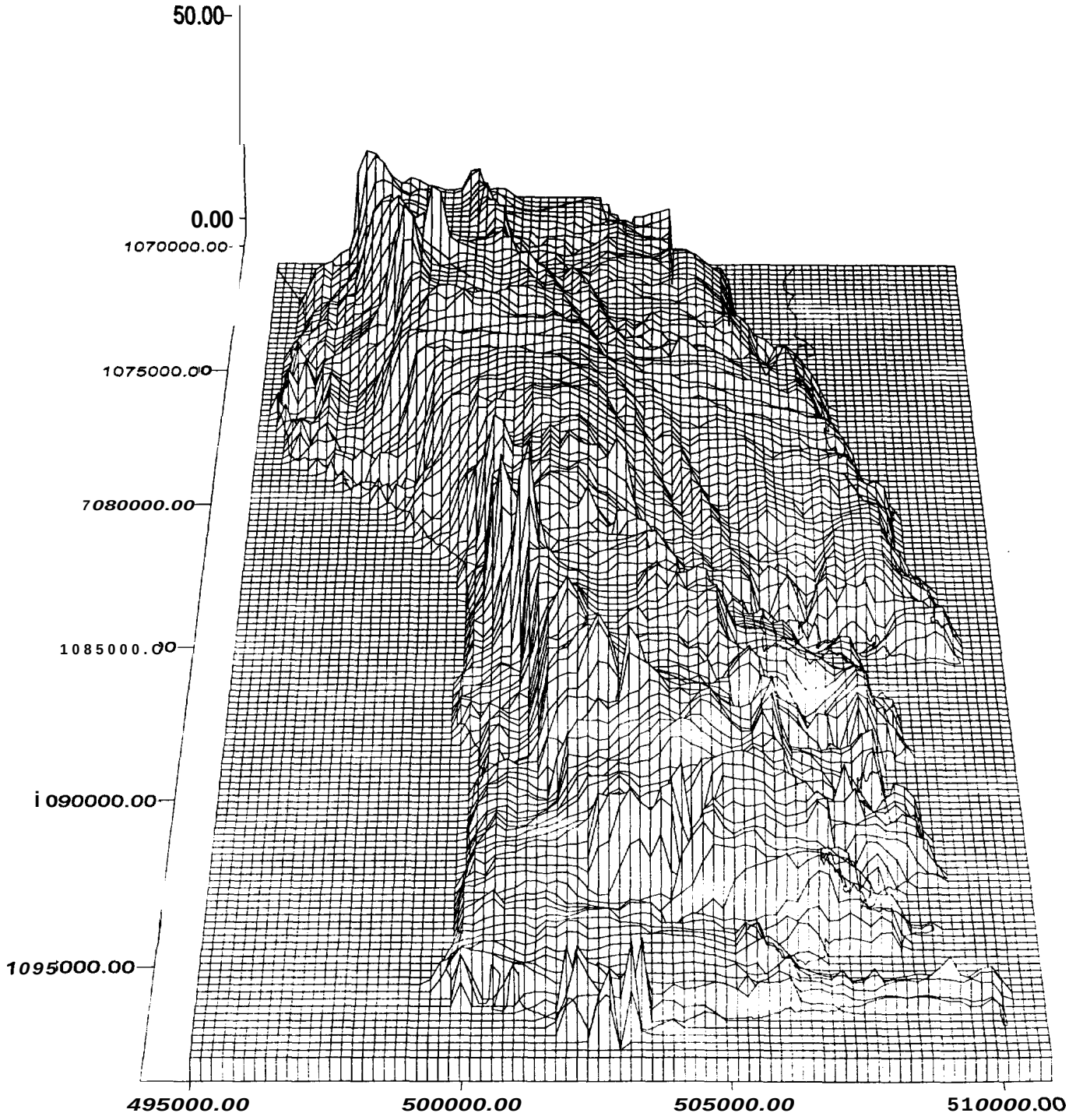


Figure 4-2a Topographic surface of NAS Pensacola. View to the west. 56x vertical exaggeration.

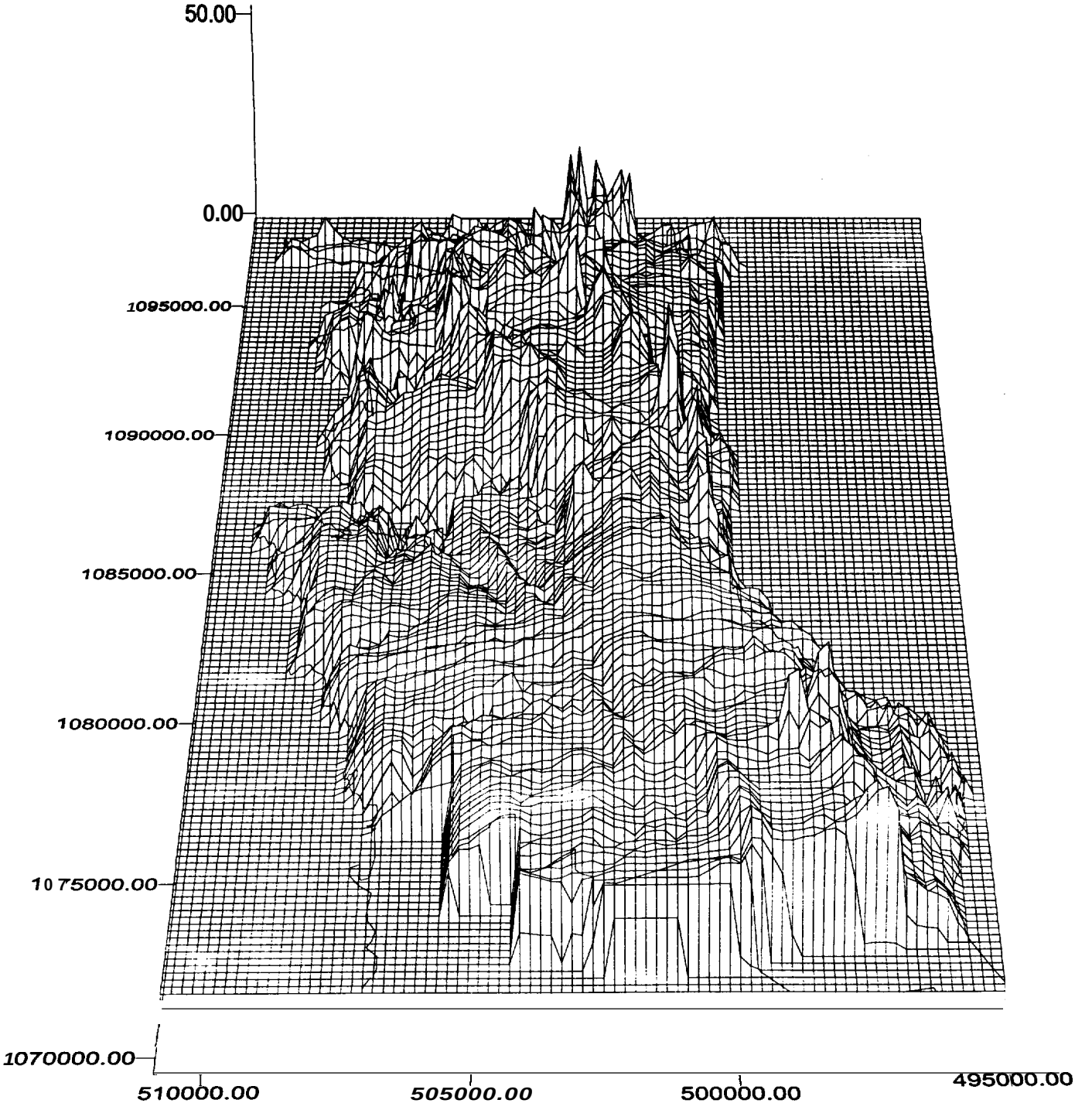


Figure 4-2b. Topographic surface of NAS Pensacola. View to the east. 56x vertical exaggeration

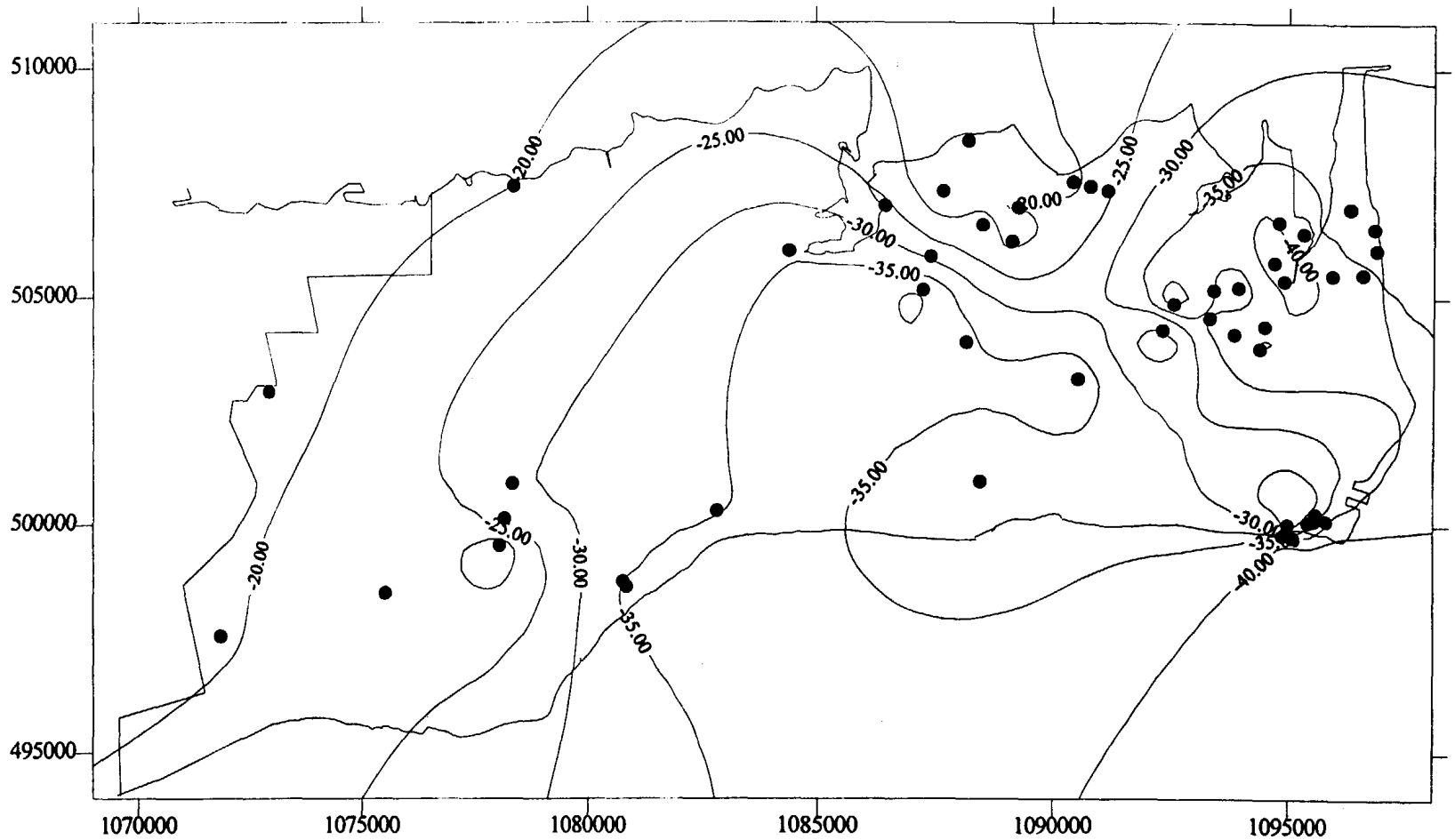


Figure 4-3. Elevation of clay layer (lower model boundry) below mean sea level. Elevation located outside of the the peninsula boundry fall in inactive regions of the model and thus do not effect model results. Black dots mark locations of the boring logs used to delineate the clay layer.

Aquifer Test Data generated previously, and as part of this modeling effort, suggested inconsistencies in K distributions vertically. Slug tests and specific capacity tests from the eastern side of the base indicated that the shallow sediments (0 to 20 ft below ground surface (BGS)) were characterized by relatively high hydraulic conductivity. Similar slug tests from 20 to 40 ft BGS indicate material of relatively low conductivity. The pump test from the northern central section of the base (see Section 4.5 and Appendix B) indicates that sediments from 0 to 20 ft BGS have hydraulic conductivities relatively low compared to sediments from 20 to 40 ft BGS. In summary, aquifer slug test data indicates decreasing hydraulic conductivity with depth while pump test data indicates increasing hydraulic conductivity with depth. Given the highly controlled nature of the pumping tests and the resulting data, the latter observations are considered valid for the region in which the pumping test was performed. However, given the complete range of data, it is indicative that hydraulic conductivities may vary widely, both horizontally and vertically. What is certain is that the upper and lower surficial are directly hydraulically connected and respond similarly to the same stresses (see Appendix B). Thus, vertical domain of the model is portrayed as a single layer.

4.4 Temporal Domain

The present model is steady state.

4.5 Aquifer Hydraulics

The hydraulic conductivities used for this model are based upon two pumping tests performed during the fourth quarter of 1996, one in the shallow zone and the other in the intermediate zone. Pump tests were done in these separate zones to support the initial 2 layer model design, but are still applicable to the final 1 layer model. Several monitoring wells were used in each test thus providing a range of transmissivity values. Operating under the premise that this range characterizes the surficial layer, the geometric mean (GM) of this range was calculated for the shallow and the intermediate layer. The GMs of the hydraulic conductivities for the shallow and

intermediate layers combined were then assigned uniformly to the surficial layer over the entire model domain.

The calculated transmissivities for the shallow layer are presented in Table **4.1.**

Table 4.1

Shallow Zone Transmissivity by Aquifer Test Method (ft^2/d)

Well	Theis	Cooper Jacob	Papadapoulos-Cooper	Neuman	Theis Recovery
OS1	1811	1207	---	1408	1030
OS2	2425	2508	---	3280	5731

The geometric mean of the shallow transmissivity values is **2101.9** ft^2/d or a hydraulic conductivity of **52** ft/d assuming **an** aquifer thickness of **40 ft.** The storativity for the shallow layer is **.00155.**

The calculated transmissivities for the intermediate layer are presented in Table **4.2.**

Table 4.2

Intermediate Zone Transmissivity by Aquifer Test Method (ft^2/d)

Well	Theis	Cooper Jacob	Papadapoulos-Cooper	Neuman	Theis Recovery
OI1	2694	1516	3258	---	9144
012	1372	8058	7372	---	7153
PI1	---	---	---	---	6580

The geometric mean of the intermediate transmissivity values is **5140.8** ft^2/d or a hydraulic conductivity of 128 ft/d assuming an aquifer thickness of 40 ft. The storativity for the intermediate layer is 0.032.

The initial hydraulic conductivity used is 90 ft/d, which is the arithmetic mean of the above shallow and intermediate geometric mean hydraulic conductivities. This value was initially

assigned universally over the entire active model domain. It was later altered within range over the domain to achieve calibration.

4.6 Recharge and Evapotranspiration

The recharge package in Visual MODFLOW is used to account for both precipitation and evapotranspiration. This is done by subtracting the evapotranspiration rate in inches per year from the precipitation rate in inches per year. By eliminating the evapotranspiration package errors in estimating the extinction depth of evapotranspiration are avoided.

Two recharge values are used in the model depending on the location of the cell (Figure 4-4). Cells in unindustrialized region receive 60 inches per year (average annual precipitation Water Resources Atlas of Florida) precipitation and lose 30 inches per year evapotranspiration (average annual evaporation Water Resources Atlas of Florida), the net flux is 30 inches per year recharge. Cells in industrialized areas that completely fall on concrete taxiways, runways, large buildings, or parking lots receive 60 inches per year recharge and lose 60 inches per year evapotranspiration, receiving a net influx of zero inches per year. Wetlands did not exert clear influence on the base-wide piezometric surface, supporting their minimal influence on recharge.

4.7 Wetlands and Streams

Initially wetlands were thought to play a significant role in the groundwater hydraulic of NAS Pensacola and function primarily as groundwater sinks (Figure 4-5). Upon further data evaluation, i.e. several rounds of groundwater depth gauging, and during preliminary model runs, the importance of wetlands on the piezometric surface are not significant enough to merit the increased complexity with their inclusion. However, the resolution of the piezometric surface on a site-specific scale (< 200 ft grid spacing) may indicate some wetland influence. Consequently, their incorporation into site-specific models should be evaluated on a case-by-case basis. Also, vertical flow potentials did not reflect recharge from the shallow aquifer.

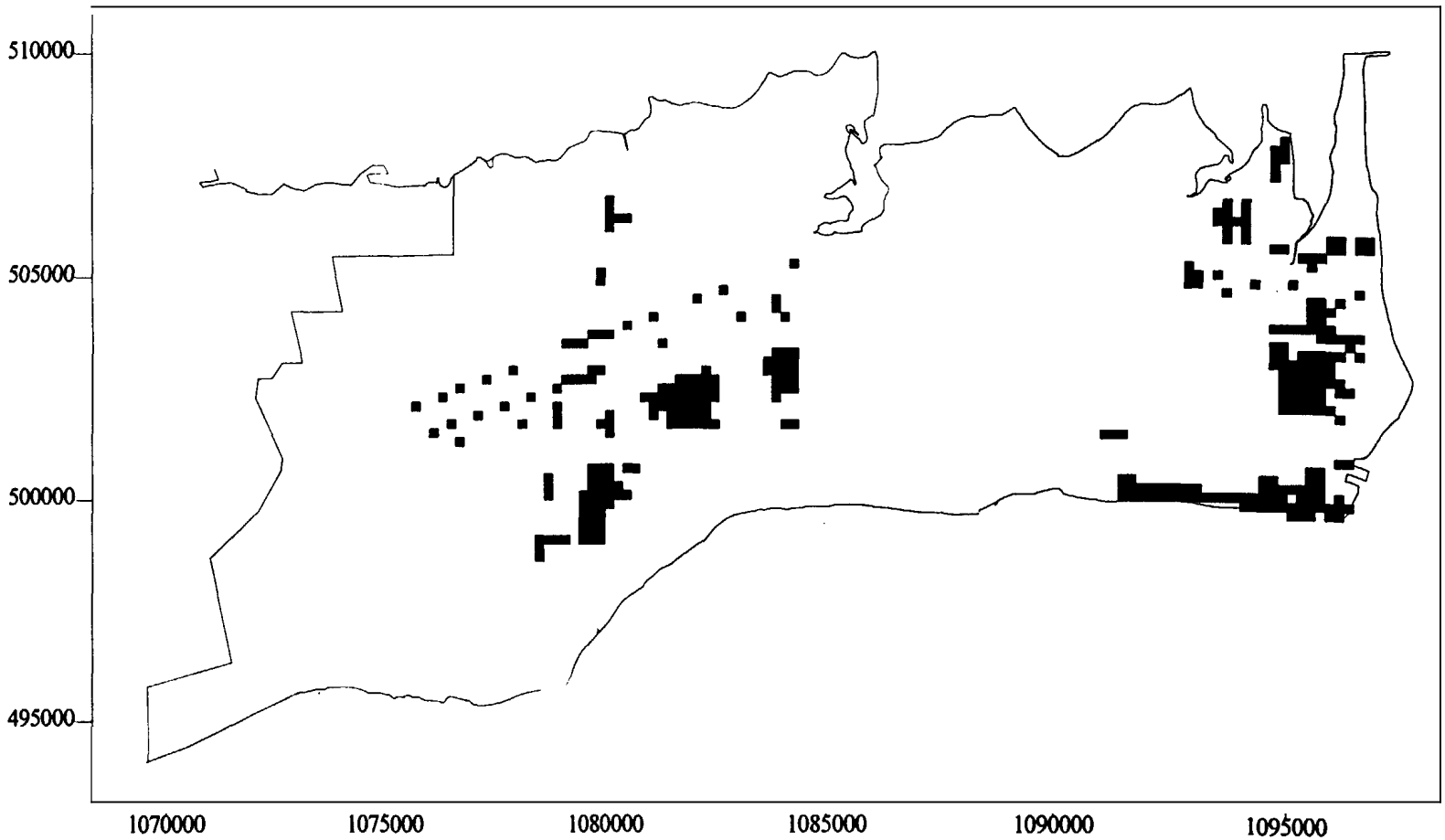


Figure 4-4. Recharge zones for NAS Pensacola groundwater flow model.

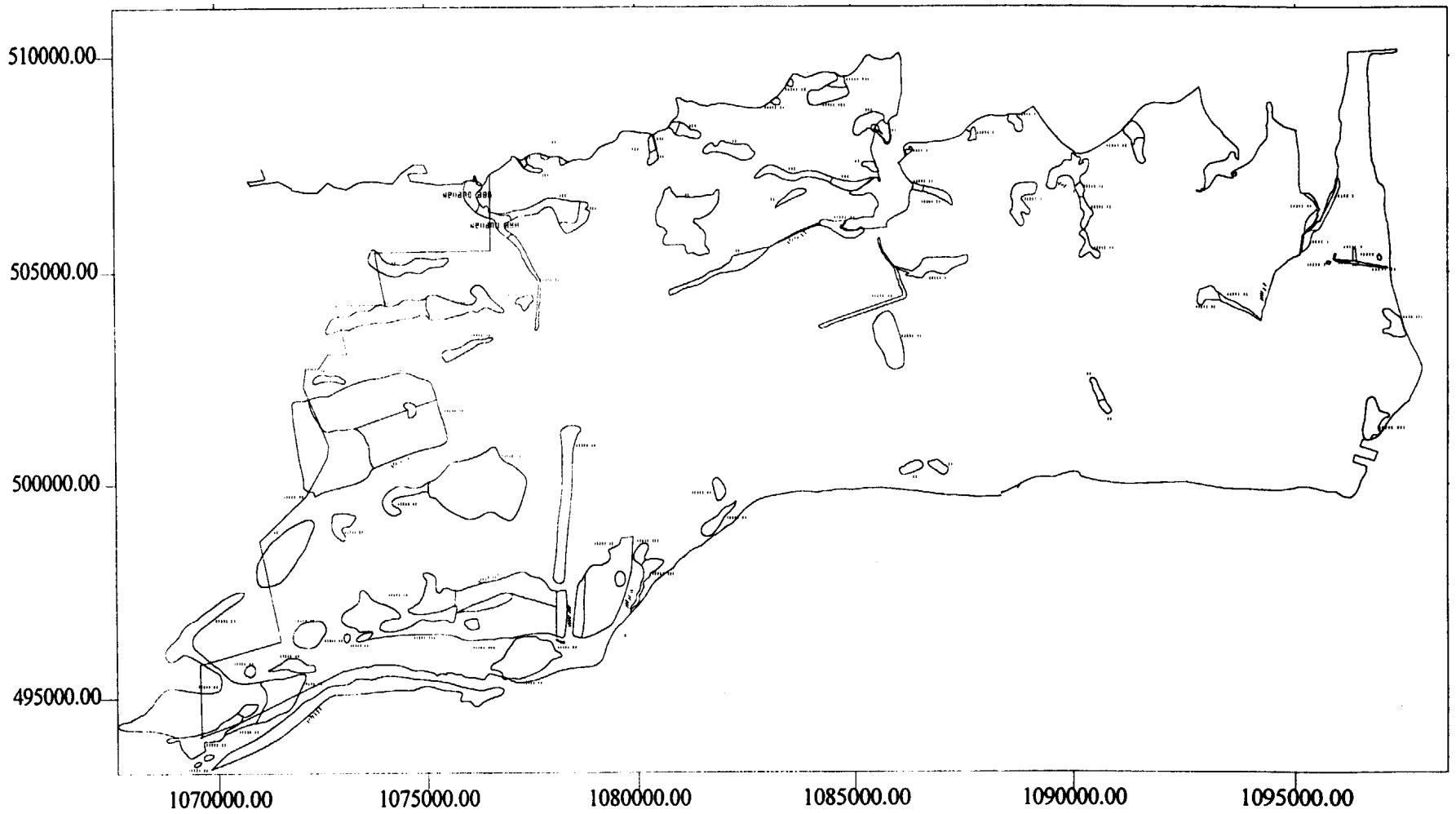


Figure 4-5. Location of wetlands on NAS Pensacola.

Streams, or channelized stream drainage, of spill ways form the storm water drainage system for NAS Pensacola. Only one stream was included in the model. It runs from just west of the helipad on Chevalier Field northward to the yacht basin. It is represented by specified head cells starting at 0.92 feet at SG-15 and linearly decreasing to 0.0 feet at the mouth of the bayou. Because of scale resolution this stream has almost no effect on the overall calibration and the morphology of the piezometric surface surrounding it. Based on the data collection effort, streams or channelized stream drainage on NAS Pensacola experience very limited flow and do not create large depressions in the surrounding piezometric surface. Given the limited flow and limited influence on the piezometric surface, the importance of streams on the piezometric surface on a base-wide scale are not significant enough to merit the increased complexity with their inclusion. Their incorporation into site-specific models should be evaluated for each site.

4.8 Hydrologic Boundaries

4.8.1 Inactive Cells

Inactive cells have been placed in the model domain coincident with Bayou Grande and Pensacola Bay (Figure 4-6). These regions represent large bodies of water at sea level. Inactive cells have also been placed on the western edge of the model where no hydrogeologic data has been collected and/or no topographic data is available.

4.8.2 Constant Head Boundaries

Constant head cells encompass the entire boundary of the active cell region of the flow model (Figure 4-7). The shoreline cells are all set to zero (i.e., mean sea level). The constant head values for the western boundary were derived from the analytical solution as computed with Surfer (Golden Software, 1994). The Surfer grid file was used to assign values to the western constant head boundary. United States Geologic Survey topographic maps indicate that the area west of the base is higher; thus using the assumption that the water table morphology is similar to the topography, placing a no-flow boundary would be invalid and produce a deficit in the water

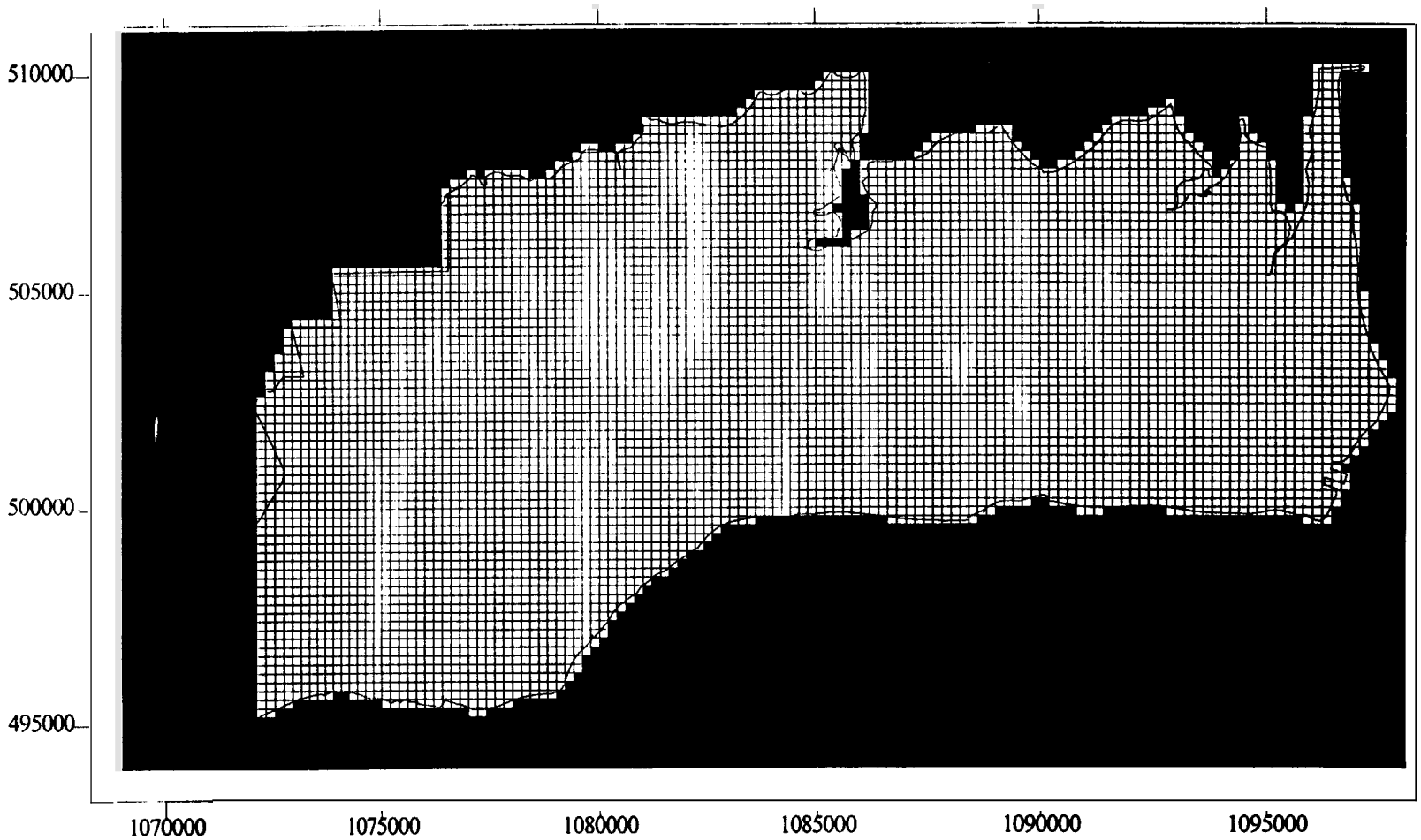


Figure 4-6. Inactive region (black) within the NAS Pensacola groundwater flow model.

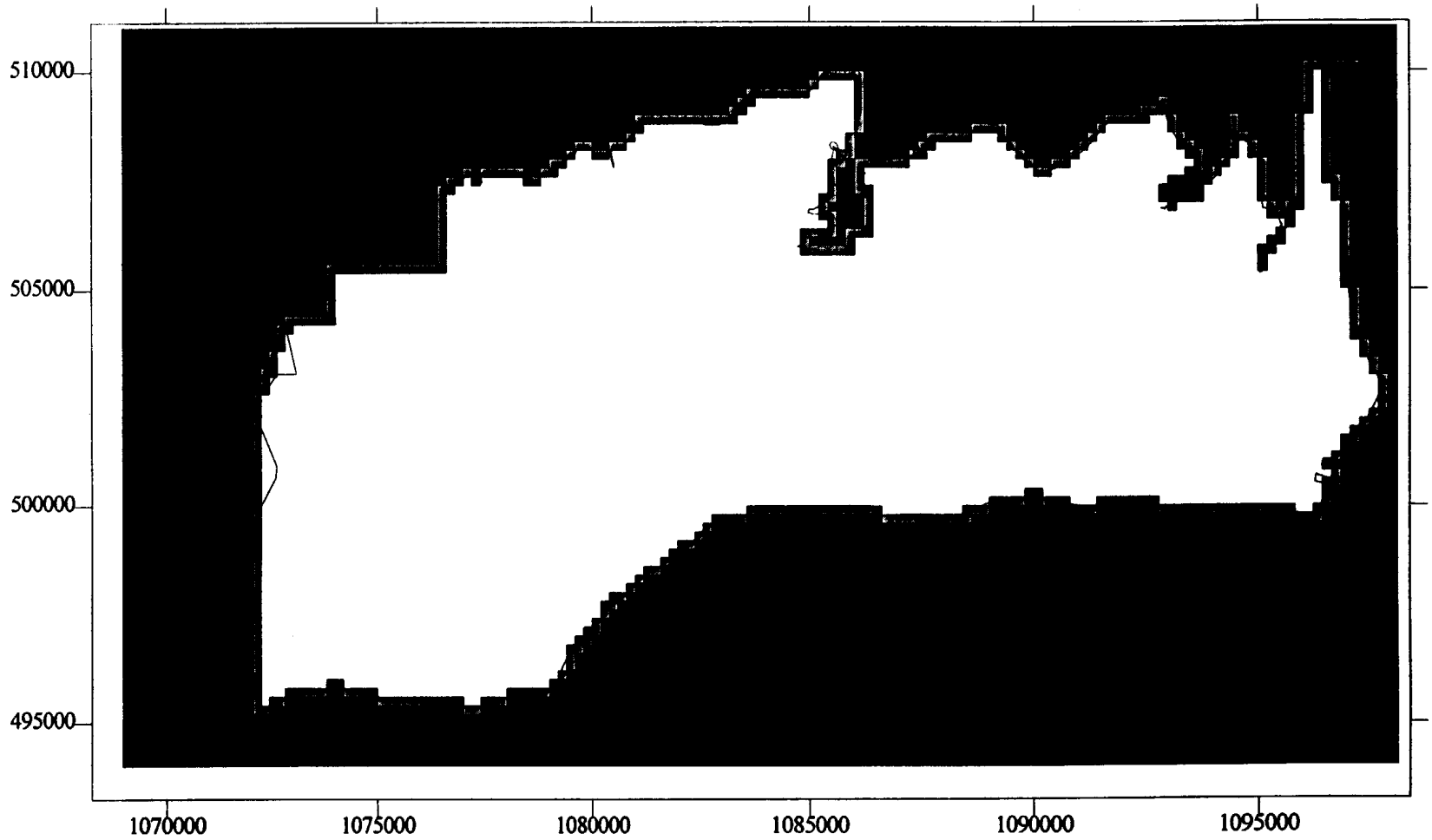


Figure 4-7. Constant (specified head) boundaries shown as grey cells along shoreline and west boundary.

balance of the system. The node centered grid in Surfer was then converted to cell centered values by averaging the surrounding four nodal values and then assigning the value to the appropriate cell in the Visual MODFLOW model grid. Ten equally spaced points along the western boundary of the groundwater flow model were defined from the Surfer grid file in this manner and the values between these points were linearly extrapolated using Visual MODFLOW.

4.8.3 Sources and Sinks

The sources of groundwater to the modeled system are rainfall and flux from the aquifer across the western specified head boundary. Major sinks within the system are Bayou Grande and Pensacola Bay.

4.9 Calibration Well Network

Visual MODFLOW allows the delineation of a calibration well network to be integrated into a flow model (Figure 4-8). Calibration statistics were generated using water level measurements from December 1996 at 37 well locations thus defined as the calibration well network. The aerial distribution of wells within the network were chosen to create an even distribution of calibration points throughout the active model domain.

4.10 Calibration Target

The piezometric surface as defined by the 37 calibration network well locations on December 1996 is the calibration target. Diurnal changes in sea level in Pensacola Bay and Bayou Grande during individual water level collection events were determined to be insignificant in effecting the groundwater elevation within the network wells (see synoptic water level measurements in Appendix A). This is probably due to the large distance from the shoreline for the majority of the calibration wells. After each model run, calibration network statistics were computed and an observed head vs computed head graph is generated. The calibration statistics consist of the mean error, mean absolute error, and root mean square. The acceptable error of the model was deemed to be an absolute error of less than 10% of the entire thickness of the aquifer. A residual

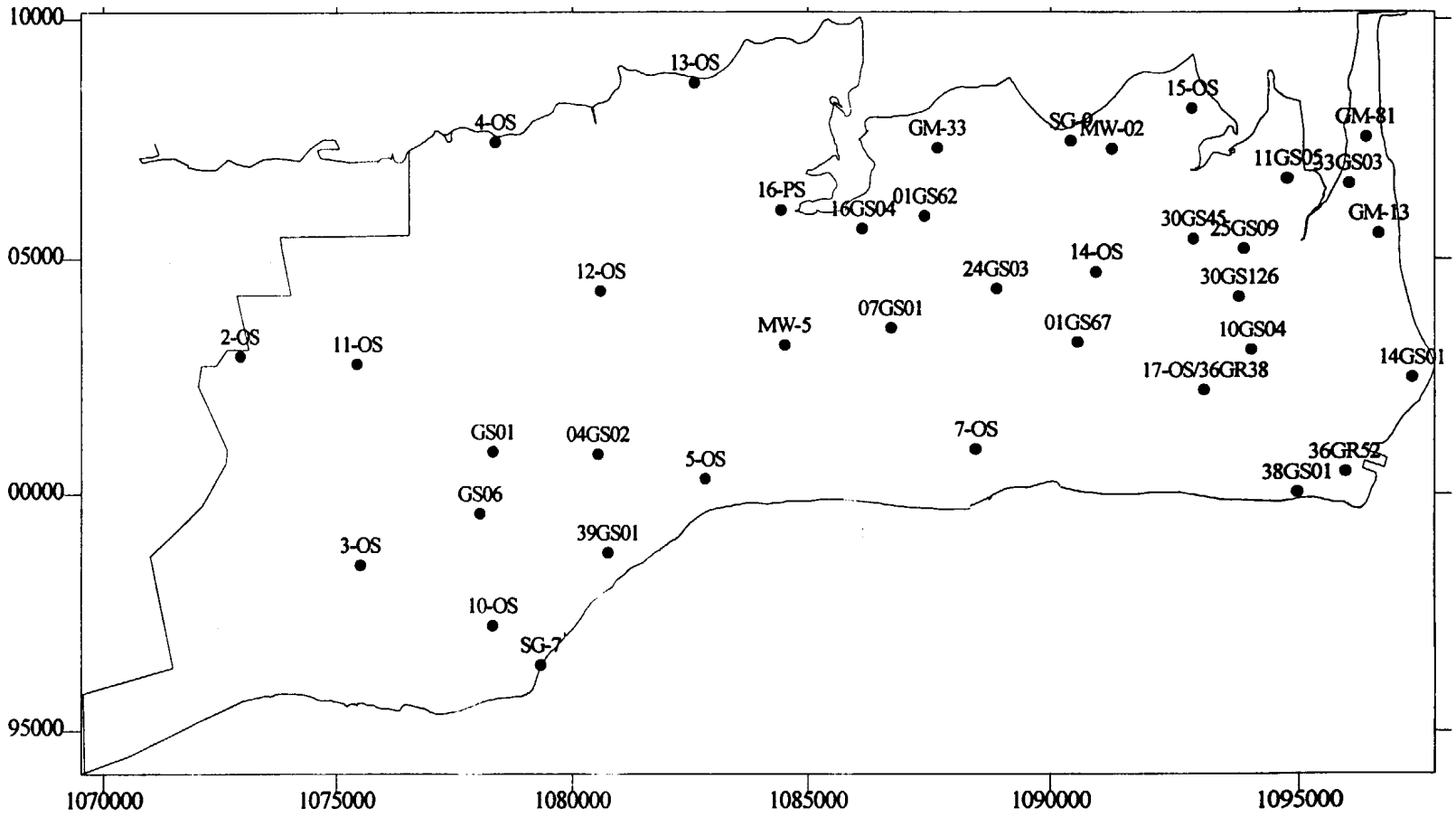


Figure 4-8. Groundwater flow model calibration well network.

plot was also generated to show the aerial distribution of error. The residual plot was based upon the difference between the calculated head values versus the observed head values at the 37 aforementioned calibration points. In addition the percent discrepancy of the amount of water moving into the model from all sources and the amount of water moving out of the model through all sinks was also noted.

5.0 MODEL CALIBRATION

5.1 Solver

Four solver packages are provided with Visual MODFLOW v1.49 VB: strongly implicit procedure package (SIP), slice-successive over relaxation package (SOR), preconditioned conjugate-gradient package (PCG2), and the Waterloo Hydrogeologic Software solver package (WHS Solver). With the relatively small dimensions of the model grid and the brief run-times of this model the choice of solver is not a large issue. The SIP package was used to calculate the solution array. A convergence criteria of .001 was chosen along with a seed of 1.0 (default value). The starting head in layer 1 is 1.66 feet (default value). The starting guess of 1.66 feet is an initial estimate of the solution array. As long as the model solution converges and nothing else is changed except the starting guess, the final distribution of heads will be the same irrespective of the starting guess.

5.2 Calibration Procedure

Calibration of numerical models is an inverse process. That is, the solution array of heads (H) for NAS Pensacola is from December 1996 and is known. The major unknown parameters are recharge (R), hydraulic conductivity (K), and boundary conditions (BC). By defining the unknown parameters an array of heads is generated by Visual MODLFOW that can be compared to the observed heads from December 1996. This relationship can be written as head is a function of recharge, hydraulic conductivity, and boundary conditions, or:

$$H = f(R, K, BC)$$

Multiple variables on the right side of the equation renders solutions non-unique. The number of possible solutions can be constrained in two ways: 1) Assessing regional trends in site parameters, (i.e., measuring hydraulic conductivity through pumping tests, or using rain gauges to ascertain recharge rates). 2) Constraining the allowable range for each variable by assessing the possible values based upon best professional judgement.

The major unknown parameters at NAS Pensacola are recharge and hydraulic conductivity based upon regional geology. The boundary conditions are assumed to be known. Thus the calibration effort was centered upon the manipulation of recharge and hydraulic conductivity.

Calibration was done through an iterative process where hydraulic conductivities were manipulated within the same orders of magnitude as determined by the onsite pumping test and slug test data (<1000 ft/d). As mentioned earlier recharge rates were manipulated to account for impermeable man made structures, and calibration was done by adjusting the hydraulic conductivity. Hydraulic conductivities were chosen to be the prime calibration variable due to data availability and validity. Each calibration point in the model was individually tested and manually adjusted to find what value of hydraulic conductivity would minimize the residual in the region at and around the calibration point, and resulted in several "zones" characterized by differing hydraulic conductivities. This procedure takes into account the effect of different hydraulic conductivities on nearby calibration points. The solution arrays for the calibrated model can be found in Figure 5-1. The solution arrays for hydraulic conductivity and recharge can be found in Figures 5-2 and 5-3. One notable feature of the solution array is the large variation in hydraulic conductivity (e.g. order of magnitude changes) over very short distances (Figure 5-2). Geologic processes, such as the deposition of sediments, tend to be gradational in nature. That is, the variation in physical properties such as grain size or hydraulic conductivity will have continuity from one observation point to the other (i.e. an aquifer will sequentially take on all intermediate values of hydraulic conductivity between two observation points of differing hydraulic conductivity). The lack of continuity in the variables at NAS Pensacola may be partly because numeric flow models are built on discrete grids. Variations in regional variables smaller than the grid spacing will not be discernable in the final solution array. The real reason for the large jumps in hydraulic conductivity is probably linked to the redirection of recharge via the storm water drainage system. Sheet drainage from impervious surfaces for example, unpaved soil adjacent to a slightly sloping parking lot could receive magnitudes of order more recharge than unpaved soil in an undeveloped area. The zones of hydraulic conductivity in Figure 5-2 can be correlated with surface features

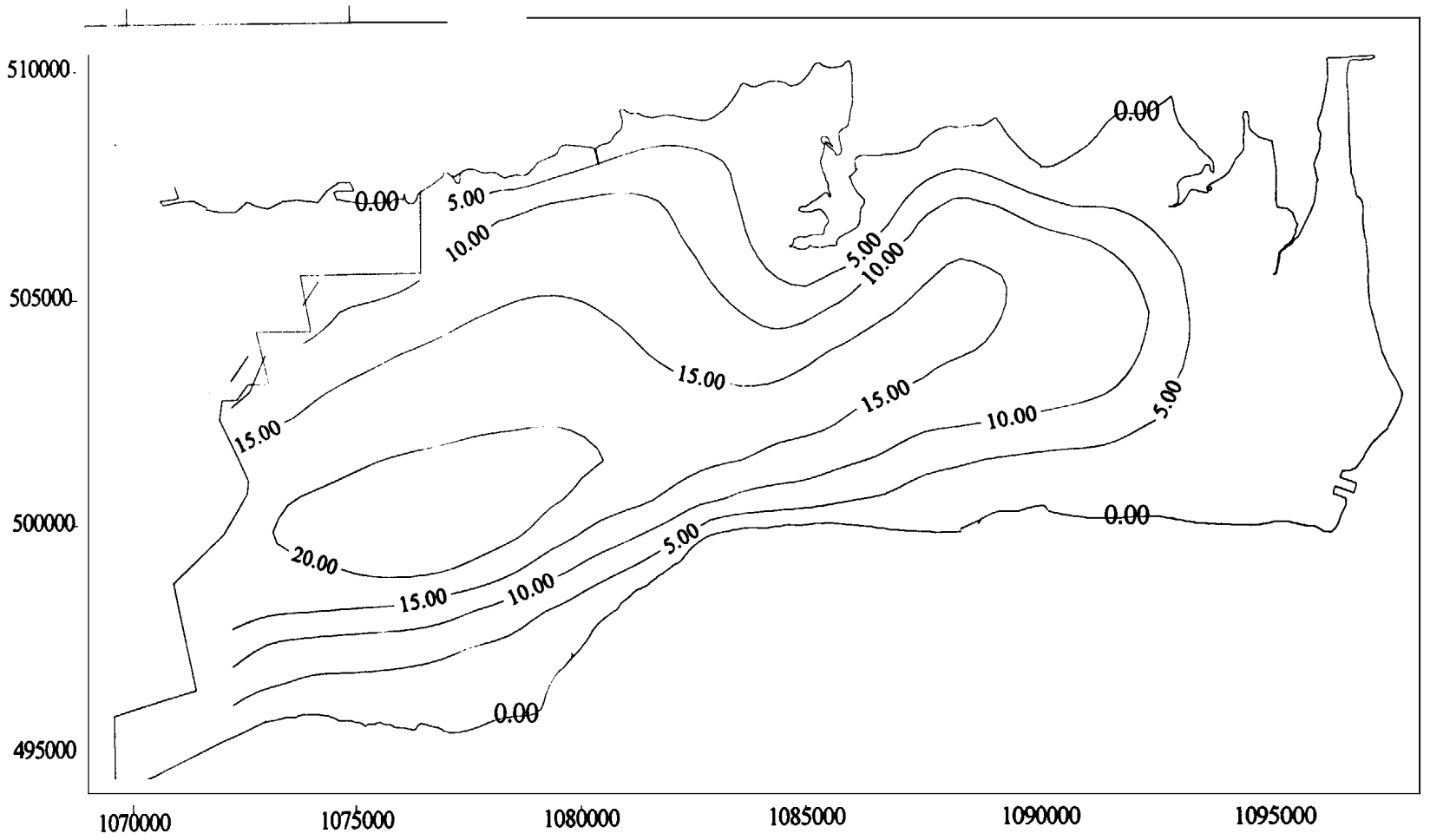


Figure 5-1. Contoured solution array for NAS Pensacola groundwater flow model. Contour interval is 5 feet. Shoreline was manually set to an elevation of 0.0 feet.

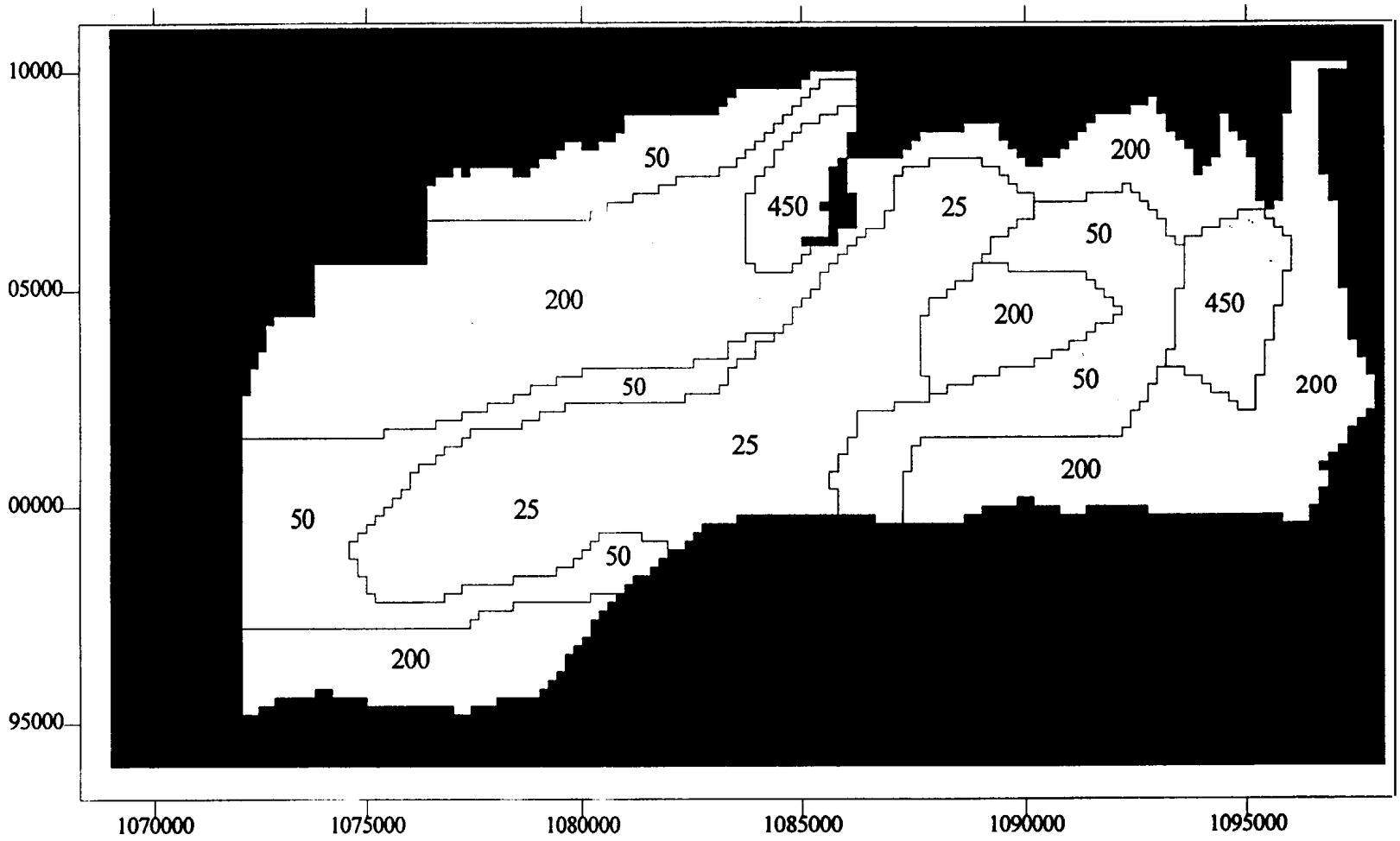


Figure 5-2. Hydraulic conductivity (ft/d) distribution for calibrated flow model.

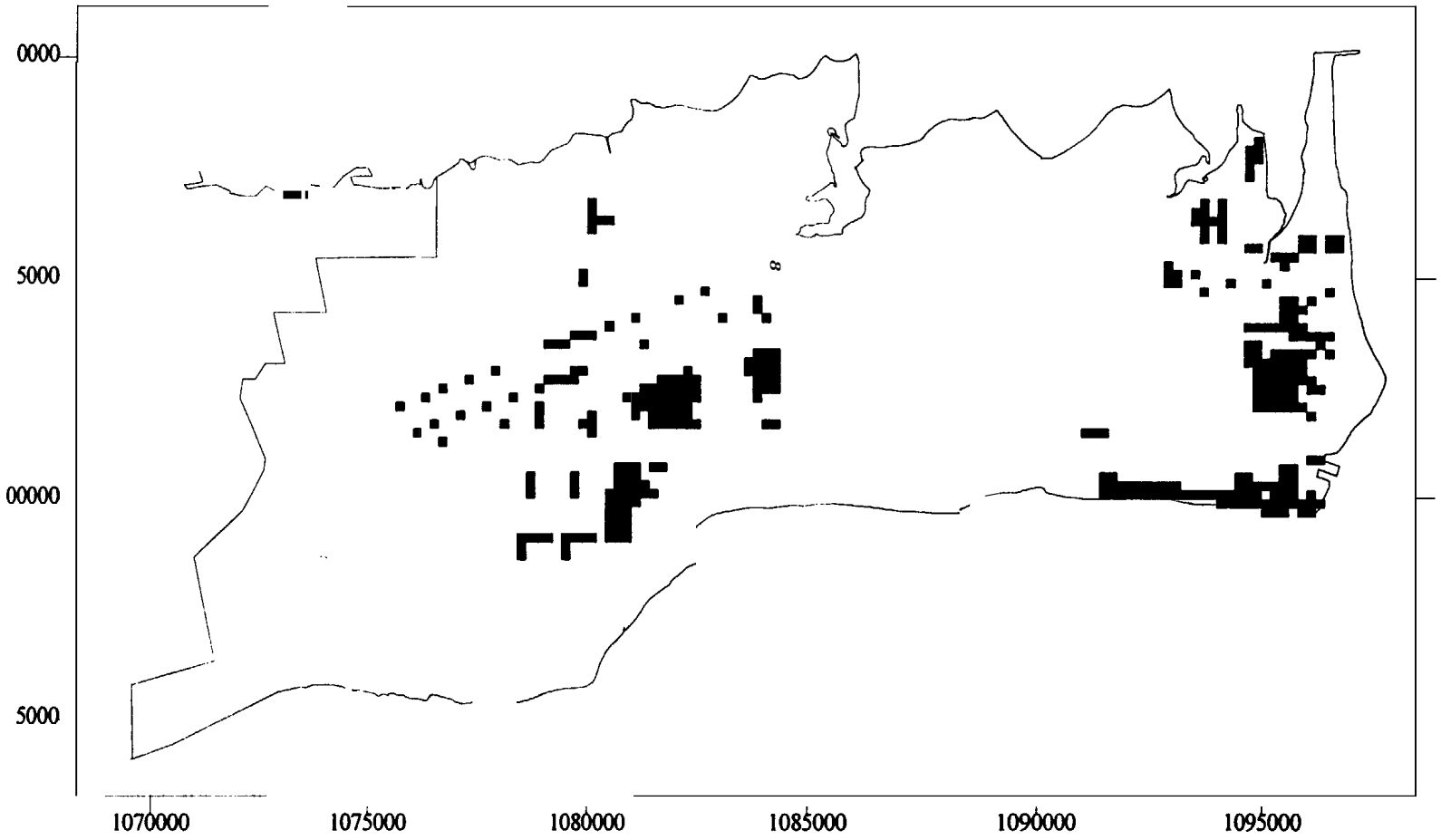


Figure 5-3. Recharge distribution for calibrated flow model. The whole model domain receives 30.0 in/yr except for the dark regions which receive 0.0 in/yr.

such as wetlands, pine forests, topographic variations, and anthropogenic features. Being that these are all surface features, suggests that the calibrated flow pattern may have a direct link to recharge variation as well as variations in hydraulic conductivity. Hydraulic conductivities were chosen to be manipulated because site-specific data is available. Calibration could probably have been achieved by manipulating recharge data but would have been much more speculative. Although the effects of recharge influenced the final hydraulic conductivity array, the conductivity values still fell within the observed range for the base.

5.2.1 Calibration Results

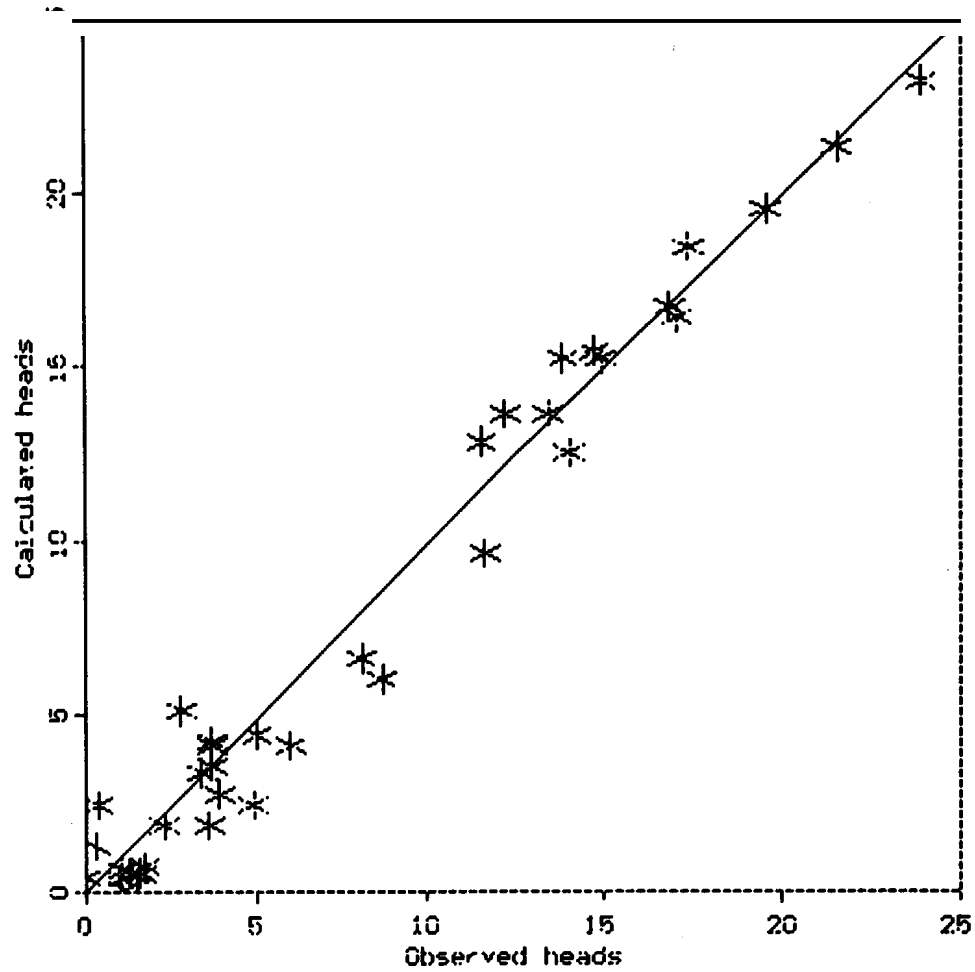
5.2.2 Average Error of the System

Residual statistics for the calibrated NAS Pensacola groundwater flow model consist of Mean error (ME), mean average error (MAE), and standard deviation (SD).

The ME is where n = number of samples, h_m = measured head, and h_s = simulated (calculated) head:

$$ME = 1/n \sum_{i=1}^{n} (h_m - h_s)_i$$

The ME for the NAS Pensacola flow model is -0.38 feet. The mean error is the difference between the measured heads and the calculated heads. The mean error for the whole model can be seen by plotting the calculated groundwater elevation versus the observed groundwater elevation for each monitoring point (Figure 54). For a perfect calibration, i.e., calculated equals observed, all the points will lie on a line with a y-intercept of (0,0) and a slope of +1. Errors in the calibration will cause the calibration points to deviate above or below the perfect calibration line. In certain situations, error caused by points above the perfect calibration line are matched by error below the perfect calibration line. This causes the average error to be zero, a perfect calibration according to the mean error, when obviously it is not. This happens because the errors



Mean error: -0.3811331 Mean abs. err: 1.02173 RMS error: 1.235

Figure 5-4. Average error of the system for the NAS Pensacola groundwater flow model.

above and below the perfect calibration line have canceled each other out. Thus, the mean error is not the best measure of model calibration.

The MAE for the NAS Pensacola flow model is 1.02 feet. The mean absolute error is the absolute value of the mean error. This is a better measure of error because it eliminates error cancellation that occurs by computing the mean error. When all calculated errors exceed or all calculated errors fall below the observed values the mean error and the absolute error will be equal. The use of the standard deviation in conjunction with the mean absolute error provides some statistical information about how well the model is calibrated.

$$MAE = 1/n \sum_{i=1}^{n} |(h_m - h_s)_i|$$

and 3) Standard deviation (SD):

$$SD = [1/n \sum_{i=1}^{n} (h_m - h_s)_i^2]^{0.5}$$

The SD of the error for the NAS Pensacola flow model is 1.412 feet.

The NAS Pensacola ground water flow model was considered calibrated when the mean absolute error of the system (in feet) fell below 5% of the saturated thickness of the aquifer. With an average saturated thickness of 40 ft and a mean absolute error of 1.02 ft, the error of the system is 2.5% of the saturated thickness.

5.2.3 Residual Analysis

Residual plots are far more useful than calibration statistics. With residual plots regions of good calibration can be differentiated from region of poor calibration. The parameters defining the

regions of poor calibration can then be modified. The residual plot in Figure 5-5 was created by subtracting the analytical solution surface, (surface generated by Surfer from December 1996 groundwater elevation data), from the Visual MODFLOW solution array. Regions with negative residuals indicate the modeled results are too high. Regions with positive residuals indicate the modeled surface is too low.

Three regions with residuals of note are indicated in Figure 5-5 as residual A, B, and C. An evaluation of the features of these three areas yields some potential explanations for the residuals. All three areas are characterized by many shallow but extensive wetland areas and/or thick tree cover. The wetlands are floored with a thin veneer of decaying organic material. These features could inhibit recharge to the aquifer, resulting in lower recharge than what was used in the model. Again, however, no single wetland encompassed a single cell area, so that adjusting recharge for these areas would be conjectural. Tree cover may induce higher evapotranspiration rates due to interception in these regions as well as increase transpiration rates.

5.2.4 Water Budget

Another way of judging model calibration is to evaluate the water budget. The difference between inflow and outflow into the active model domain should be less than 0.1% (Konikow, 1978). The NAS Pensacola groundwater flow model has a discrepancy of 0.05%.

5.3 Sensitivity Analyses

Sensitivity analyses are performed to quantify the uncertainty in the calibrated model due to uncertainties in input parameters. Through the sensitivity analyses the overall calibration can be gauged against variations in individual calibration values. Statistical values used for evaluating sensitivity analysis were identical to those used for calibration, that is, mean error, mean absolute error, and standard deviation. Individual parameters were varied above, through, and below their final calibration value. The resulting residual statistics were graphed versus the changing parameter. Ideally, the final calibration value fell within the trough of the curve indicating a

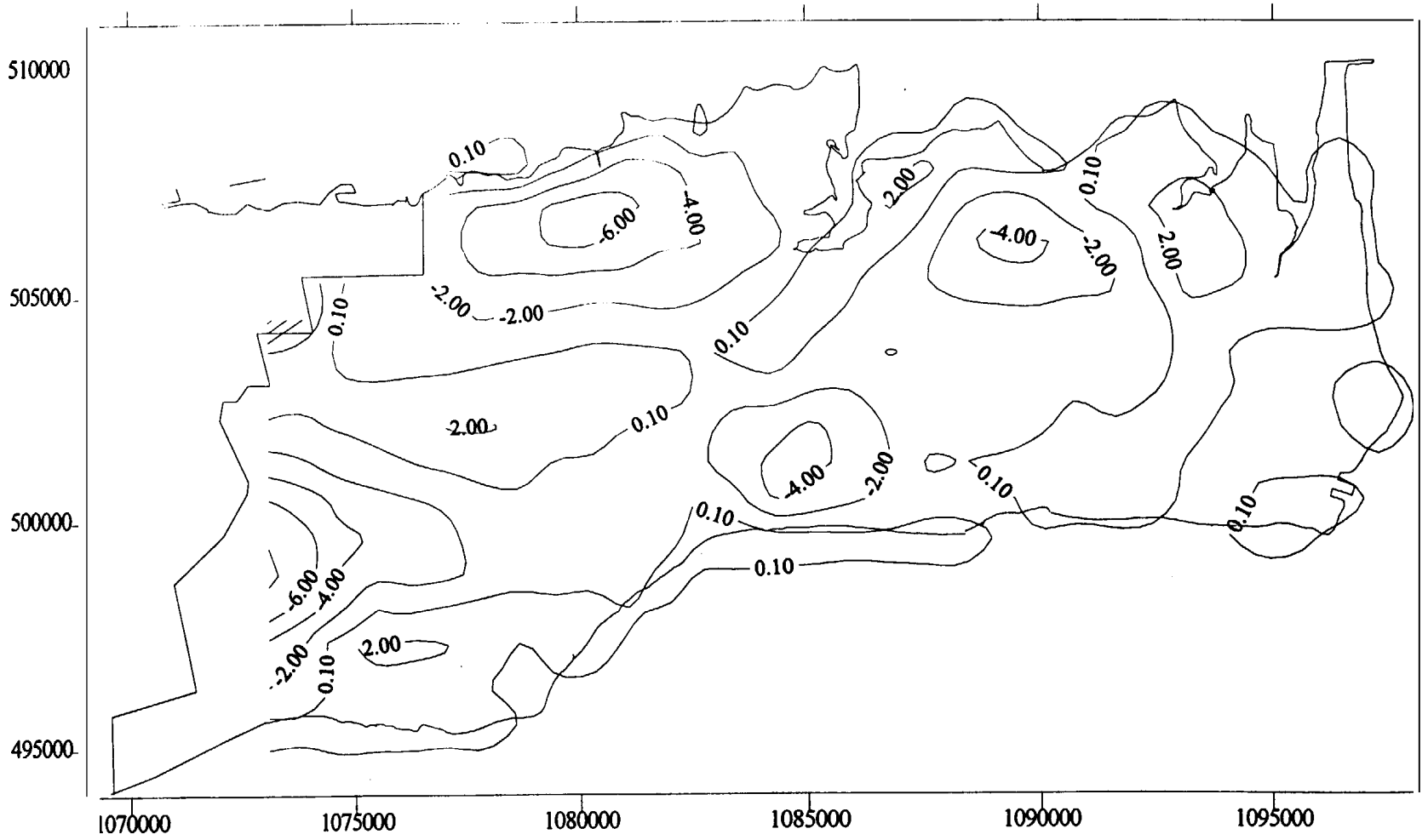


Figure 5-5. **Residual plot of NAS Pensacola Negative residuals are where** the **calculated piezometric surface is** too **high. Positive residuals are** where the **calculated piezometric surface is** too **low.**

minimization of error. As parameter values were moved above and below the final calibration value, the residual statistics increase (i.e., the error of the system increases). As mentioned in Section 5.2, hydraulic conductivity and local variations in recharge were used to calibrate the NAS Pensacola flow model. Thus, hydraulic conductivity and recharge sensitivity analysis for NAS Pensacola was performed by varying the model value for each zone of hydraulic conductivity or recharge individually.

5.3.1 Hydraulic Conductivity Sensitivity

Four different property zones of hydraulic conductivity were applied to calibrate the NAS Pensacola flow model. These values range from 25 ft/d to 450 ft/d varying spatially over different portions of the model domain. The values used for the sensitivity analysis were +/-20% above or below the optimum value.

The fifty ft/d hydraulic conductivity zone (Figure *5-6)* reaches a MAE and SD minimum at a value of approximately 50 ft/d (Figure 5-6). By looking at values above and below 50 ft/d it can be seen that the model is only slightly sensitive to changes in the value assigned to this zone.

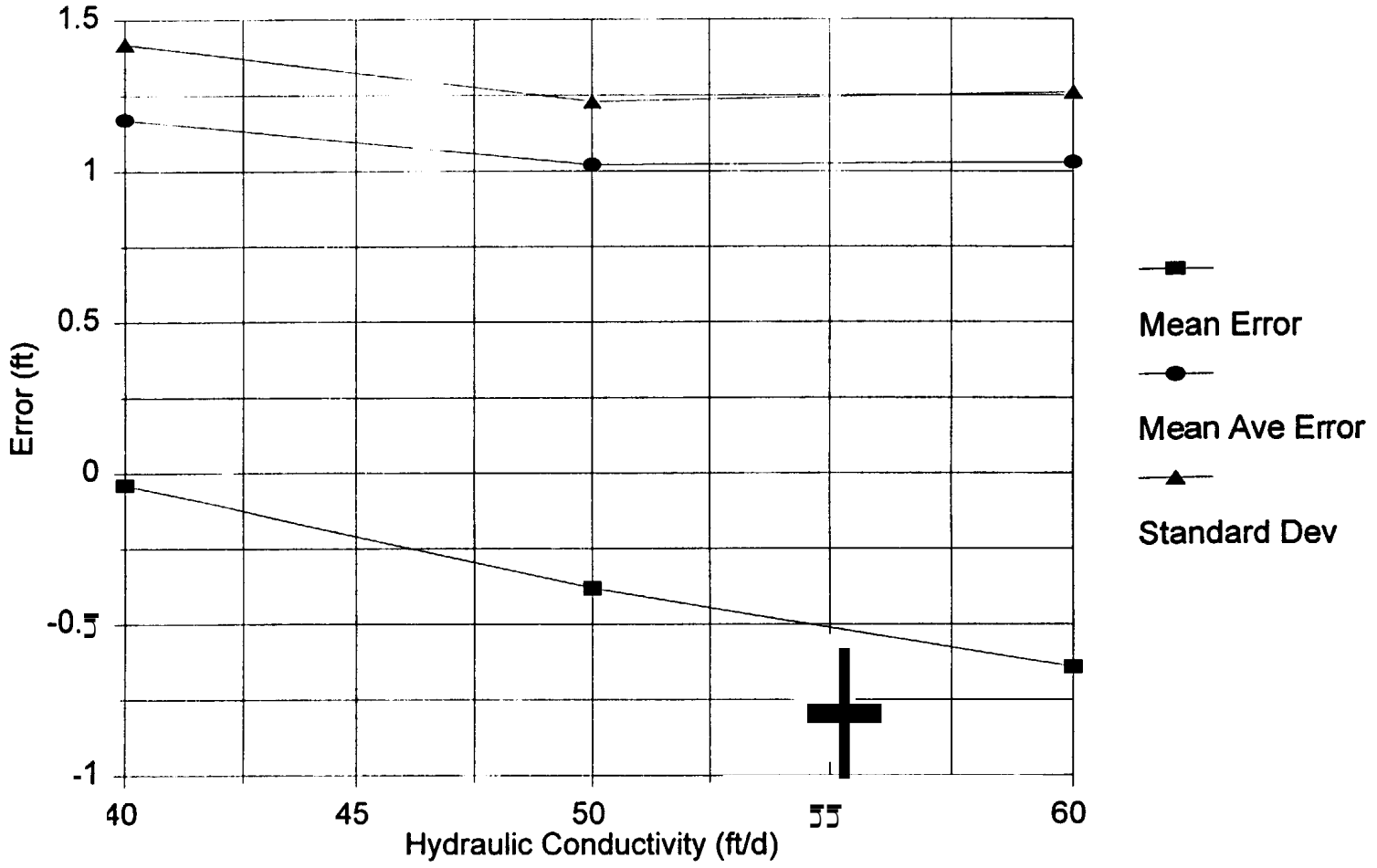
The two hundred ft/d hydraulic conductivity zone (Figure 5-7) reaches a MAE and SD minimum at a value of approximately 200 ft/d (Figure 5-7). By looking at values above and below 200 ft/d it can be seen that the model is very insensitive to changes in the value assigned to this zone.

The twenty five ft/d hydraulic conductivity zone (Figure *5-8)* reaches a MAE and SD minimum at a value of 25 ft/d (Figure 5-8). By looking at values above and below 25 ft/d it can be seen that the model is only slightly sensitive to changes in the value assigned to this zone.

The four hundred fifty ft/d hydraulic conductivity zone (Figure *5-9)* reaches a MAE and SD minimum somewhere between 300 ft/d and 500 ft/d (Figure *5-9).* Values below and above this range appear to be very insensitive to changes in the value assigned to this zone.

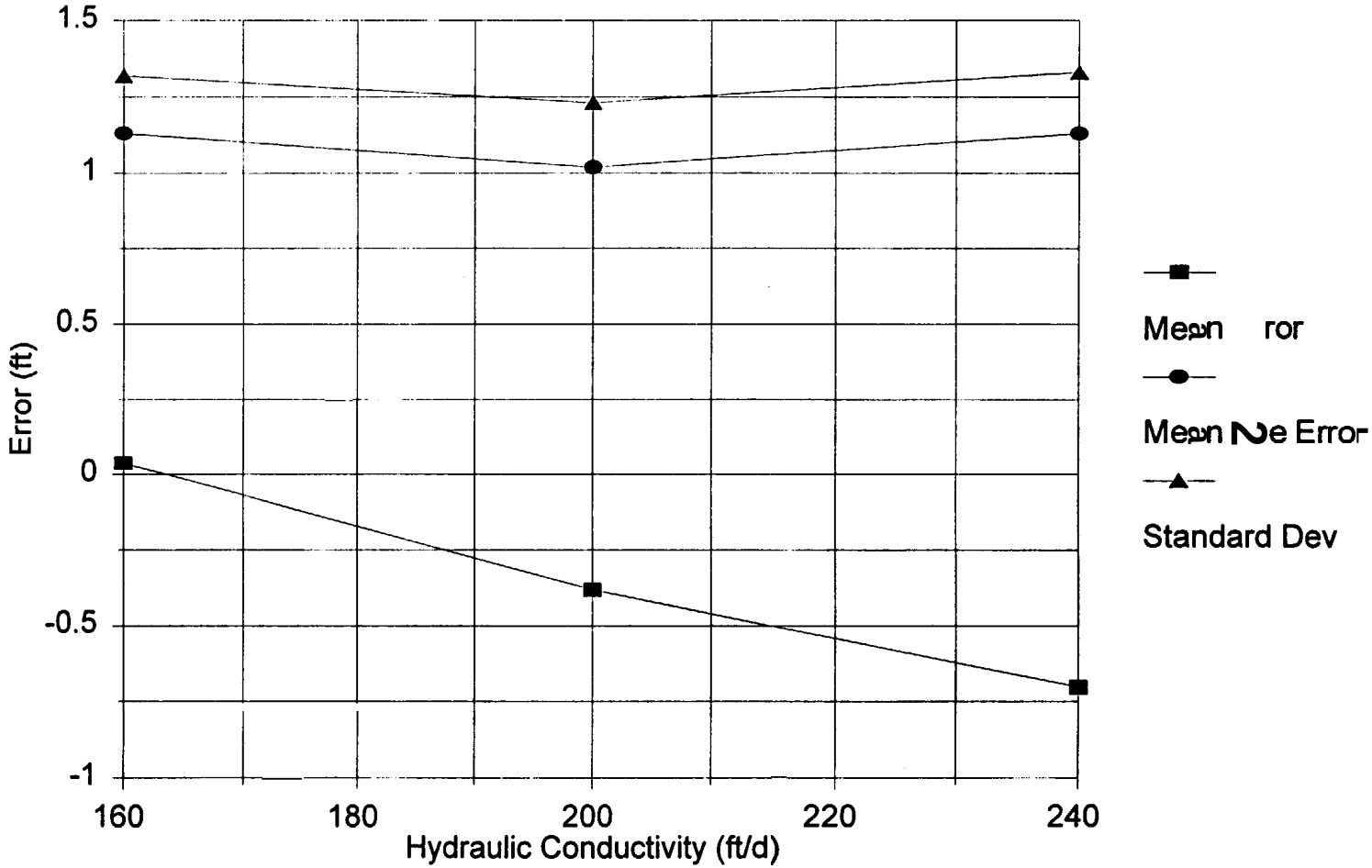
50 ft/d Hydraulic Conductivity Zones

Figure 5-6



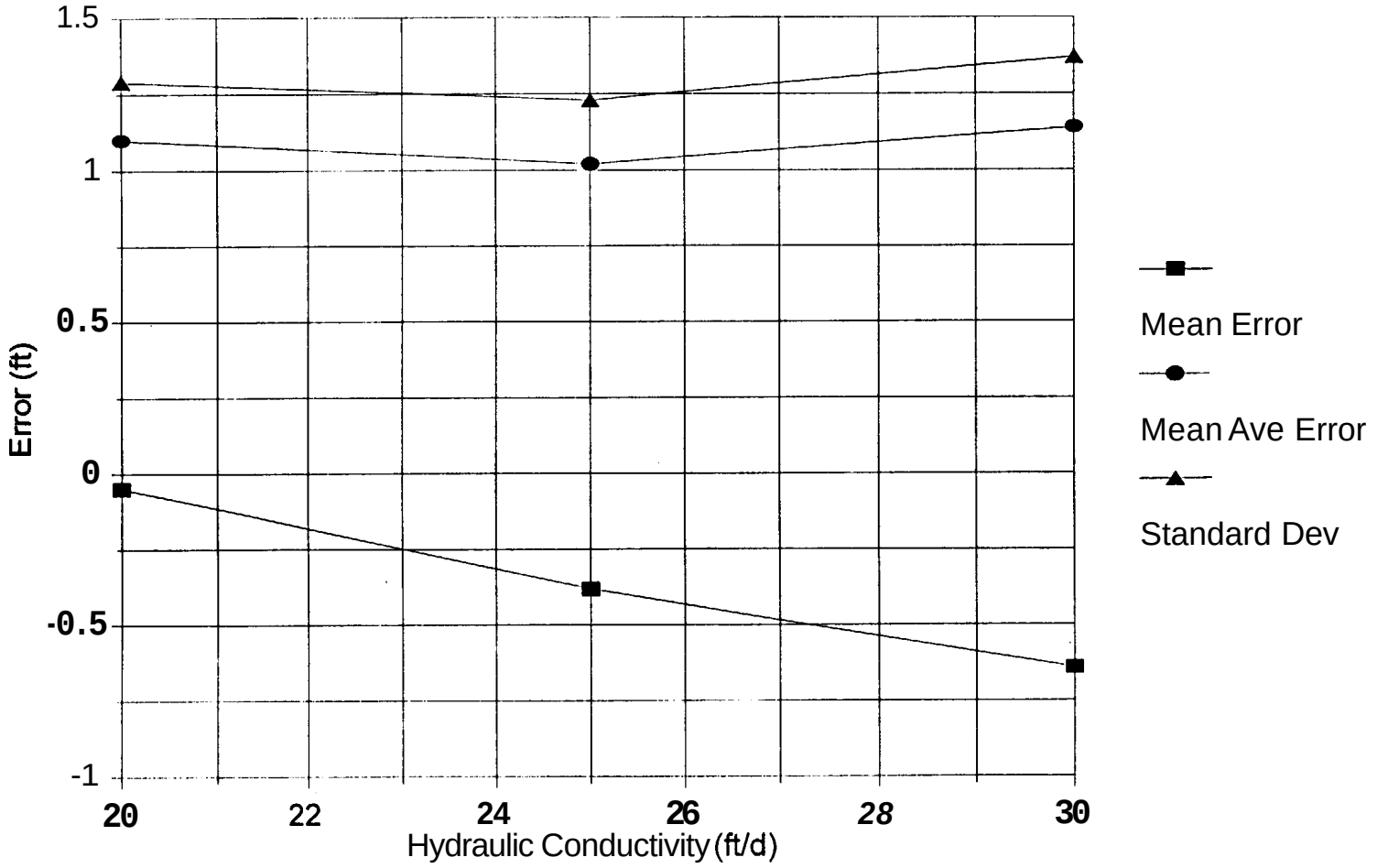
200 ft/d Hydraulic Conductivity Zones

Figure 5-7



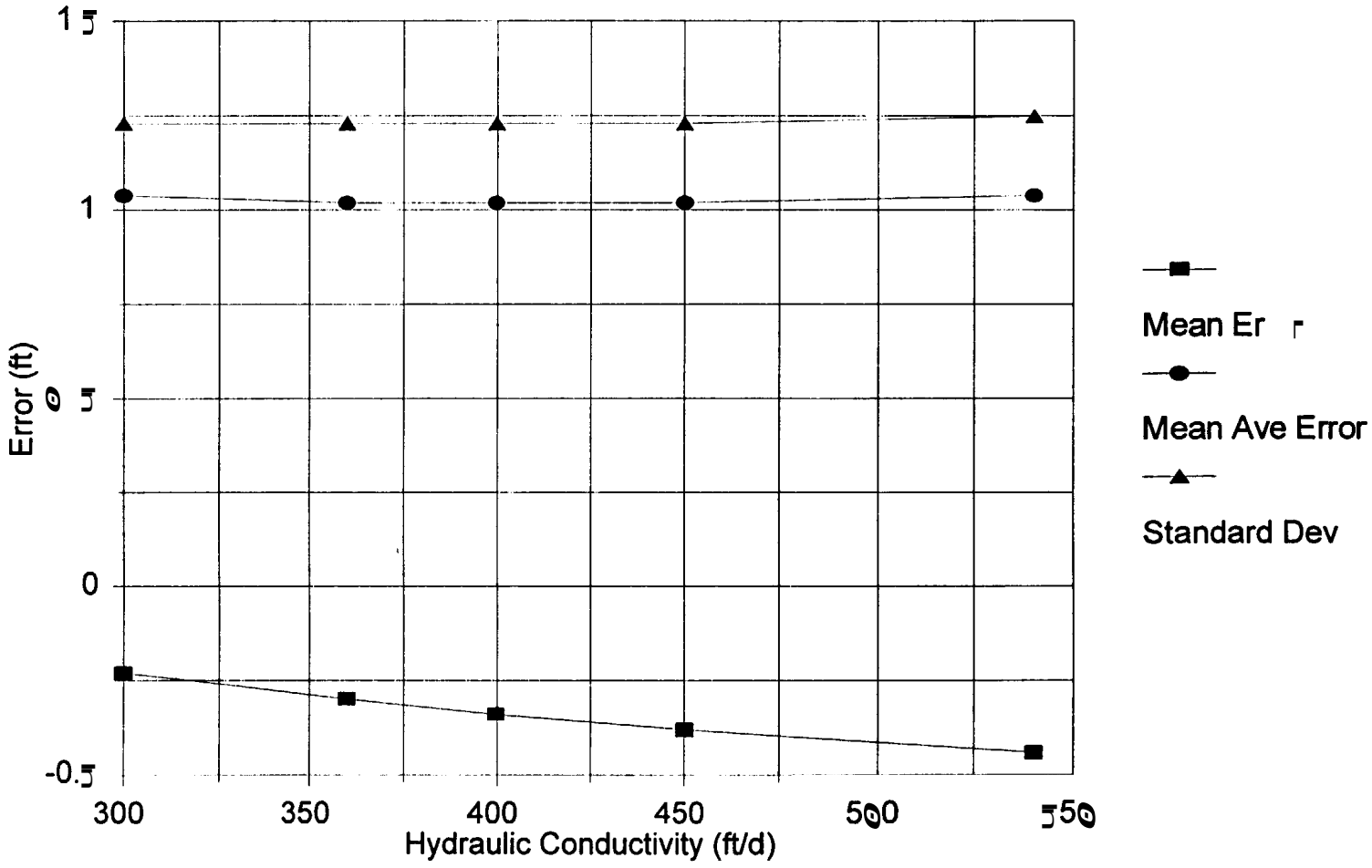
25 ft/d Hydraulic Conductivity Zone

Figure 5-8



450 ft/d Hydraulic Conductivity Zones

Figure 5-9



5.3.2 Recharge Sensitivity

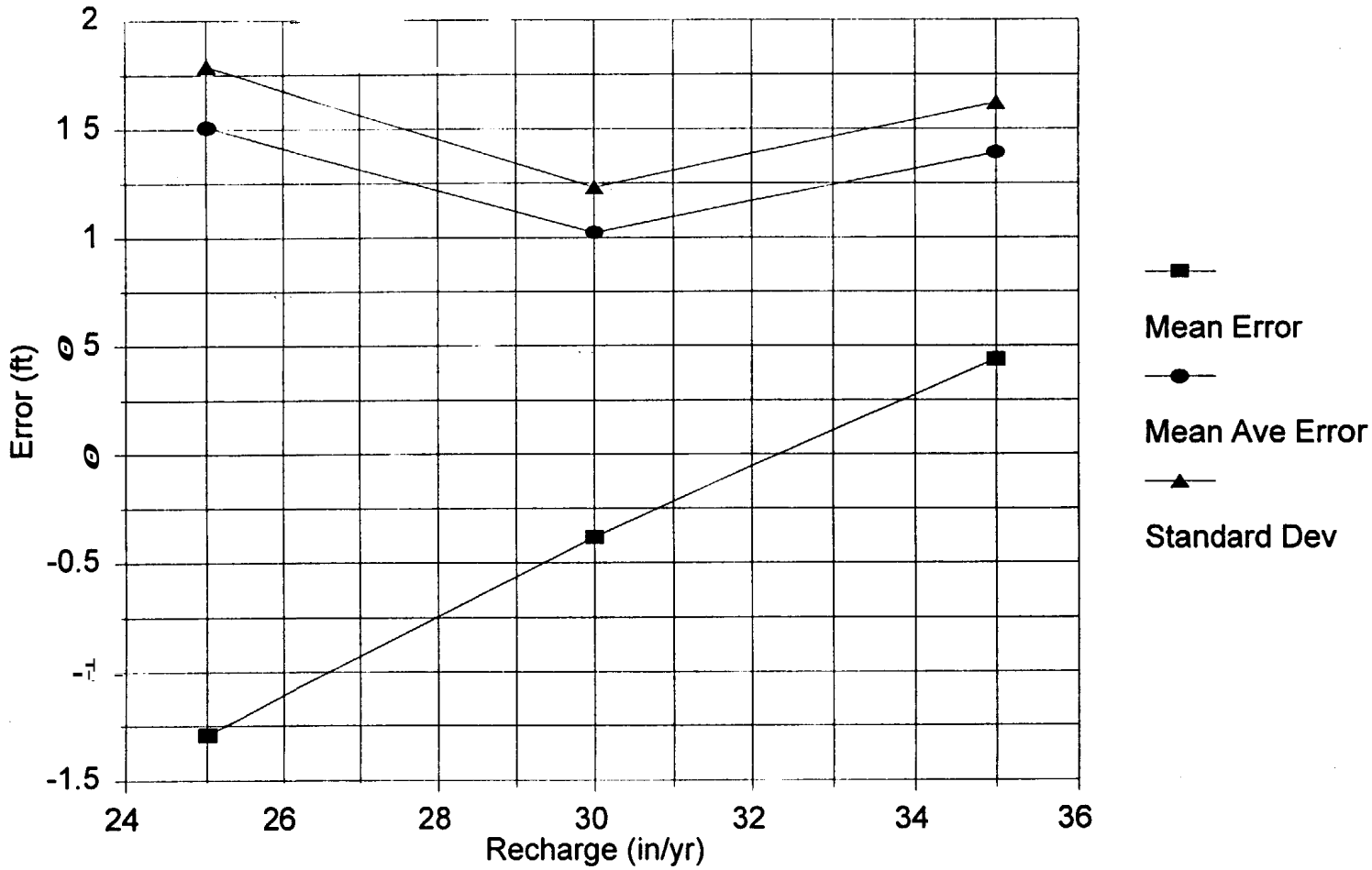
Two different property zones of recharge were created for the NAS Pensacola flow model. As noted in Section 4.5 the amount of evapotranspiration (in/yr) is subtracted from the recharge rate where applicable. The value 30 idyr is left over after subtracting 30 idyr as the local evapotranspiration rate. The initial values of 60 idyr for precipitation and 30 in/yr for evapotranspiration were taken from The Water Resources Atlas of Florida, 1988.

Recharge Property 1 (Figure 5-10) defines the regional rainfall rate over almost the entire base. It reaches a minimum MAE and SD at 30 in/yr. Variations of the rate above and below 30 in/yr create greater amounts of error and move the residuals away from zero.

Recharge Property 2 (Figure 5-11) defines rain falling on concrete runways and buildings. This rainfall is not allowed to infiltrate the ground where it has fallen. This water is either moved elsewhere on base via the storm water drainage system or completely evaporates. The sensitivity curve is therefore one sided with the minimum residual found when Recharge Property 2 is assigned the value of 0.0 idyr.

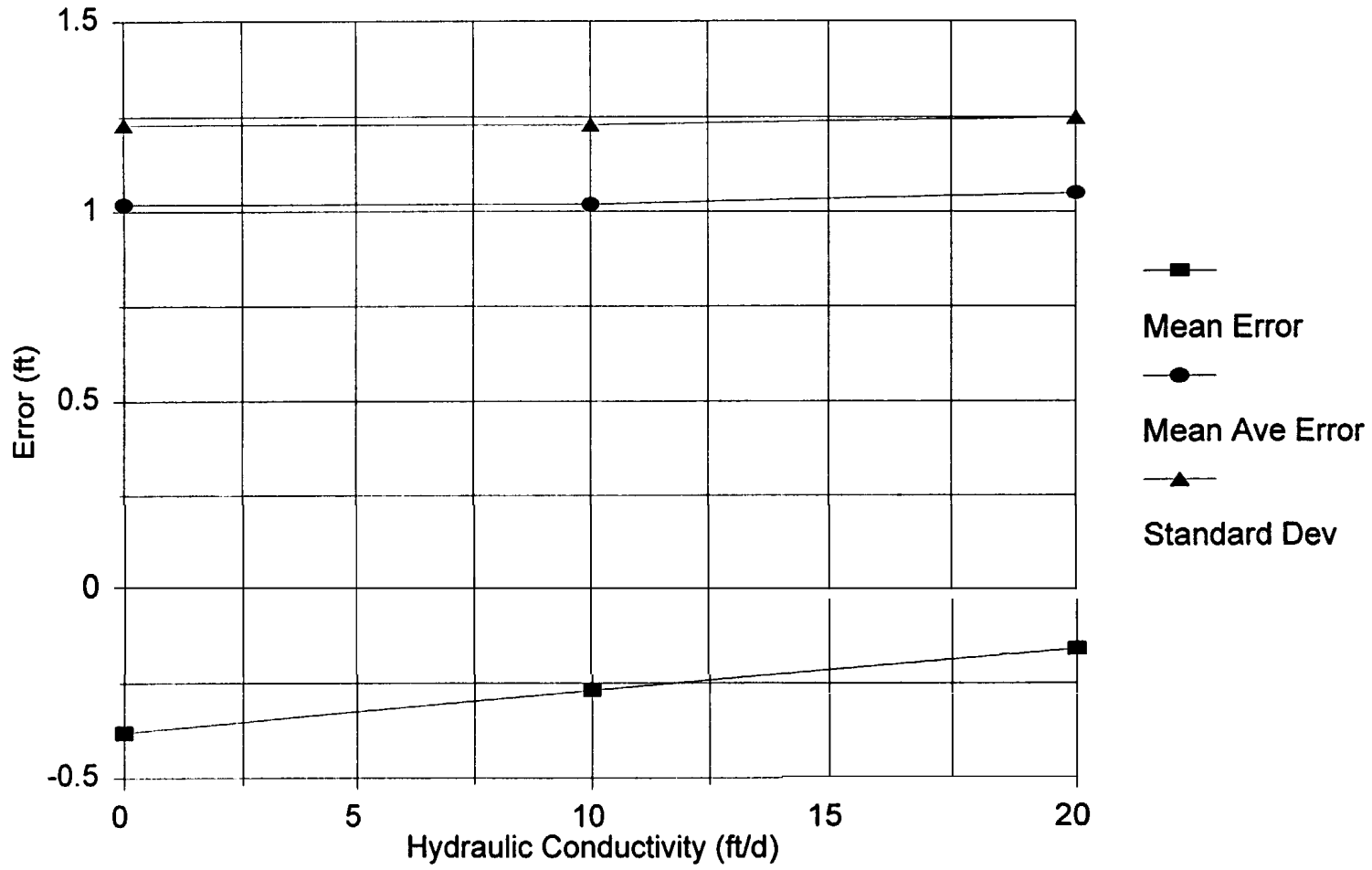
30 in/yr Recharge Zones

Figure 5-10



0.0 in/yr Recharge Zone

Figure 5-11



6.0 SUMMARY AND CONCLUSION

The objective of the modeling effort has been met. That is, it provides a framework supported by more regional hydrologic information, for constructing site-scale models on a case-by-case basis. Site variables of consequence includes hydraulic conductivity distribution and aquifer recharge. Hydraulic conductivities appear fairly uniform vertically, in the lack of lithological heterogeneity and the same-order-of-magnitude values obtained during aquifer testing. Recharge, on the other hand, remains an enigma due to the many variables affecting it on NAS Pensacola: spatially inconsistent precipitation, particularly in summer; spatially inconsistent evapotranspiration due to vegetation and wetland areas; and the influence of paved areas and storm water drainage. Defining the effects of recharge more throughly would also probably smooth out the hydraulic conductivity array and eliminate large jumps in hydraulic conductivity over short distances. This model is steady-state; an ability to construct a transient model of this area will particularly rely on empirical data regarding aquifer recharge. Table 6.1 contains a summary of the construction of the calibrated NAS Pensacola groundwater flow model.

Table 6.1

Summary of Calibrated NAS Pensacola Groundwater Flow Model Construction

Parameter or condition	values
Model grid resolution	200 ft
Number of layers	1
Model layer thickness	Varies with topography (25.9 ft to 86.5 ft)
Layer top elevation	Varies with topography (-4.2 ft to 56.5 ft)
Bottom of model	Varies by depth to clay aquitard
Horizontal conductivities	Spatially variable array ranging from 25 ft/d to 450 ft/d
Vertical conductivities	Equal to corresponding horizontal
Porosity	0.4 (Domenico and Schwartz)
Storage coefficients*	0.00155 mean site value

Table 6.1

***Summary* f Calibrated NAS Pensacola Groundwater low Model onstruction**

Parameter or condition	**values**
Boundary conditions	Specified head on all sides
Fixed heads	Interpolated from 12/96 data
Initial heads	Interpolated from 12/96 data
Recharge	Spatially variable ranging from 0.0 in/yr to 60 in/yr (from Water Resources Atlas of Florida)
Evapotranspiration	Spatially variable ranging from 30 in/yr to 60 in/yr (from Water Resources Atlas of Florida)

* Storage coefficients are not utilized in steady-state model such as the present one.

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APPENDIX A

SYNOPTIC WATER LEVEL MEASUREMENT

Synoptic Water Level Measurements

(Groundwater elevation in feet above mean sea level)

SITE	WELL	11-21-96	12-20-96	12-27-96	01-03-97	01-10-97	01-15-97	01-23-97	01-31-97	02-07-97
OU-10	GM-12R	1.87	0.94	0.83	1.86	2.46	2.08	1.83	2.17	1.95
	33GI10	1.89	0.96	0.85	1.87	2.46	2.08	2.03	2.17	1.96
11	11GS13	1.35	0.4	0.4	1.43	1.96	1.53	1.5	1.67	1.43
	11GI14	1.13	0.19	0.06	1.11	1.26	1.24	1.18	1.26	1.17
38	38GS08	1.03	-0.33	-0.41	0.6	0.84	0.6	0.61	0.69	0.67
	38GI08	1.04	-0.3	-0.41	0.6	0.84	0.62	0.62	0.69	0.68
30	30GS18	6.36	5.54	5.37	6.43	7.09	6.63	6.64	6.93	6.62
	30GI19	6.29	5.38	5.25	6.3	6.7	6.44	6.45	6.63	6.42
27	27GS20	7.24	5.97	5.91	6.87	7.07	7.09	7.09	7.08	6.96
	27GI05	6.59	5.38	5.29	6.26	6.53	6.45	6.47	6.48	6.36
BG WELL	01GS67	13.82	12.2	12.1	12.98	12.93	13.16	13.18	13.09	12.98
BG WELL	01GI68	12.64	11.11	11.01	11.92	12.02	12.38	12.24	12.07	11.97
1	01GS53	15.93	14.15		14.84	14.98	14.99	15.01	14.92	14.79
	01GI66	13.97	12.33	12.19	13.1	13.2	13.32	13.34	13.29	13.17
	01GS64						9.87	9.99	9.99	10.05
	01GI65						8.34	8.41	8.48	8.51
CTO-119	7-OS	3.67	2.48	2.43	3.47	4.27	3.72	3.66	3.73	3.57
WELLS	7-01	4.9	3.65	3.57	4.56	4.98	4.8	4.74	4.75	4.63
	4-OS	3.41	2.08	2.02	3.07	3.35	3.39	3.56	3.71	3.65
	4-01	3.41	2.06	1.99	3.06	3.34	3.36	3.55	3.69	3.64

Synoptic Water Level Measurements (continued)										
SITE	WELL	11-21-96	12-20-96	12-27-96	01-03-97	01-10-97	01-15-97	01-23-97	01-31-97	02-07-97
	2-OS	13.84	13.16	13.14	14.31	14.54	14.37	14.41	14.69	14.4
	2-OI	14.17	13.58	13.55	14.74	15	14.8	14.89	15.21	14.88
	1-OS	17.53	16.15	16.08	17.11		17.58	17.66	17.53	17.53
	1-OI	17.59	16.25	16.17	17.21		17.67	17.74	17.62	17.64
	3-OS	18.6	17.21	17.14	18.11	18.46	18.54	18.96	18.63	18.58
	3-OI	18.87	17.53	17.46	18.46	18.69	18.87	18.97	18.98	18.92
	10-OS	4.47	3.55	3.58	4.53	4.74	4.58	4.6	4.7	4.56
STAFF	SG-4	0.94					0.33			-0.013
GAUGES	SG-5	6.75	6.63	6.67	6.66	6.45	6.53	6.57	6.69	5.66
	SG-6	4.17	4.09	4.57	4.12	4.29	3.97	3.99	3.13	4.11
	SG-8	2.12	2.12	1.12	2.1	2.1	1.12	2.12	2.11	2.12
	SG-13	7.51	8.16	7.91	7.91	8.53	8.05	8.03	8.43	8.03
	SG-14	2.57	2.51	2.59	2.57	2.39	2.47	2.31	2.21	2.35
	SG-15	0.98	0.95	0.98	0.99	1.02	1.04	1	1.04	1.03
	SG-17	13.49	13.53	13.51	13.53	13.55	13.53	13.53	12.75	13.52

APPENDIX B

AQUIFER TESTING

Table of Contents

1.0 METHODOLOGY **1**
1.1 Well/Piezometer Installation 1
1.2 Specific Capacity Testing 6
1.3 Short Term Step Testing 7
1.4 Constant Rate Testing 8
1.5 Recovery Testing **9**

2.0 Results **10**
2.1 Step Testing **10**
2.2 Constant Rate Testing **10**
2.3 Recovery Monitoring **19**

3.0 CONCLUSIONS **20**

List of Figures

Figure **1-1** Locations of Wells Installed. 3
Figure **1-2** Aquifer Test Site **4**
Figure **1-3** Generalized Lithologic Log -Aquifer Test Site **5**
Figure **2-1** Shallow Zone Test Summary **12**
Figure **2-2** Intermediate Zone Test Summary **13**

List of Tables

Table **1.1** Well Construction Data -Aquifer Test Site **1**
Table **1.2** Specific Capacity Results 6
Table **2.1** Step Test Results **10**
Table **2.2** Shallow Zone Constant Rate Test Summary **14**
Table **2.3** **Summary** of Shallow Zone Aquifer Parameters 16
Table **2.4** Intermediate Zone Constant Rate Test Summary 17
Table ***2.5*** Summary of Intermediate Zone Aquifer Parameters **18**

AQUIFER TESTING AND ANALYSIS

Introduction

This section presents a summary of the aquifer testing conducted at NAS Pensacola, provides an evaluation of the data collected, and reports on the consequent analysis of those data. The purpose of the aquifer testing was multi-fold, including support information for the modeling effort, filling of data gaps regarding aquifer characteristics (particularly on the western side of the base), collection of auxiliary data to refine the conceptual model of the base, investigation of surface water/groundwater interaction, and determination of the hydraulic connection between the upper (shallow) and lower (intermediate) intervals of the surficial zone of the Sand-and-Gravel Aquifer. The testing included constant rate testing followed by recovery periods for each of the tested zones. The following sections present the methodology of the testing, the results of the testing, and conclusions that can be made based on integration of the data. Attachments 1 and 2 include the data collected during the aquifer testing, and will be referred to during the following discussion.

1.0 METHODOLOGY

1.1 Well/Piezometer Installation

Previous work at NAS Pensacola had indicated that the surficial aquifer was comprised of two surficial hydrostratigraphic units (the shallow and intermediate), differing in permeability but not markedly in lithology, with both units hydraulically connected. Utilizing this as a basis for the conceptual model, the aquifer testing was designed to investigate both the shallow and intermediate depth intervals. The strategy employed consisted of a)the installation of a fully penetrating production well (one for the shallow zone, and one for the intermediate zone), and observation piezometers situated five feet and 40 feet from the test well, respectively, for each of the tested intervals [due to potential production well inefficiencies, use of observation well data versus production well data to calculate aquifer parameters was the intention and scope of the effort] b)

step testing and determination of the maximum discharge rate for each production well c) constant rate testing of each zone, followed by a recovery monitoring period.

Location, Site-Specific Lithology, and Well Construction

The general location for the tests is shown in Figure 1-1. This area was chosen for several reasons, including: it is not associated with an IRP site, and disposal of tests discharge water did not present a logistical problem; it is located near both a freshwater wetland and a small arm of Bayou Grande (Bayou Redoubt), which would aid in determination of the effects of surface water and tidal fluctuations on local groundwater. The site-specific layout is provided in Figure 1-2. The lithology noted during the drilling did not differ from that encountered at other areas of the base. All of the wells and piezometers were installed and developed according to the procedures listed in the CSAP for NAS Pensacola. Figure 1-3 presents a generalized lithologic log for the aquifer test site, and Table 1.1 provides the construction information for the installed wells.

Table 1.1
Well Construction Data - Aquifer Test Site
NAS Pensacola

Well ID	Well Diameter (in)	Well Depth (ft)	Screen Length (ft)	T.O.C. Elevation (ft)
16-PS	4	25	20	9.94
16-OS1	1.5	22	2.5	12.54
16-OS2	1.5	22	2.5	12.84
16-PI	4	45	20	10.16
16-OI1	2	45	20	10.35
16-012	2	45	20	10.41

In stalled wells consisted of the production wells (PS [shallow] and PI [intermediate]), two piezometers five radial feet from the test wells (OS1 [shallow] and 011 [intermediate]), and two

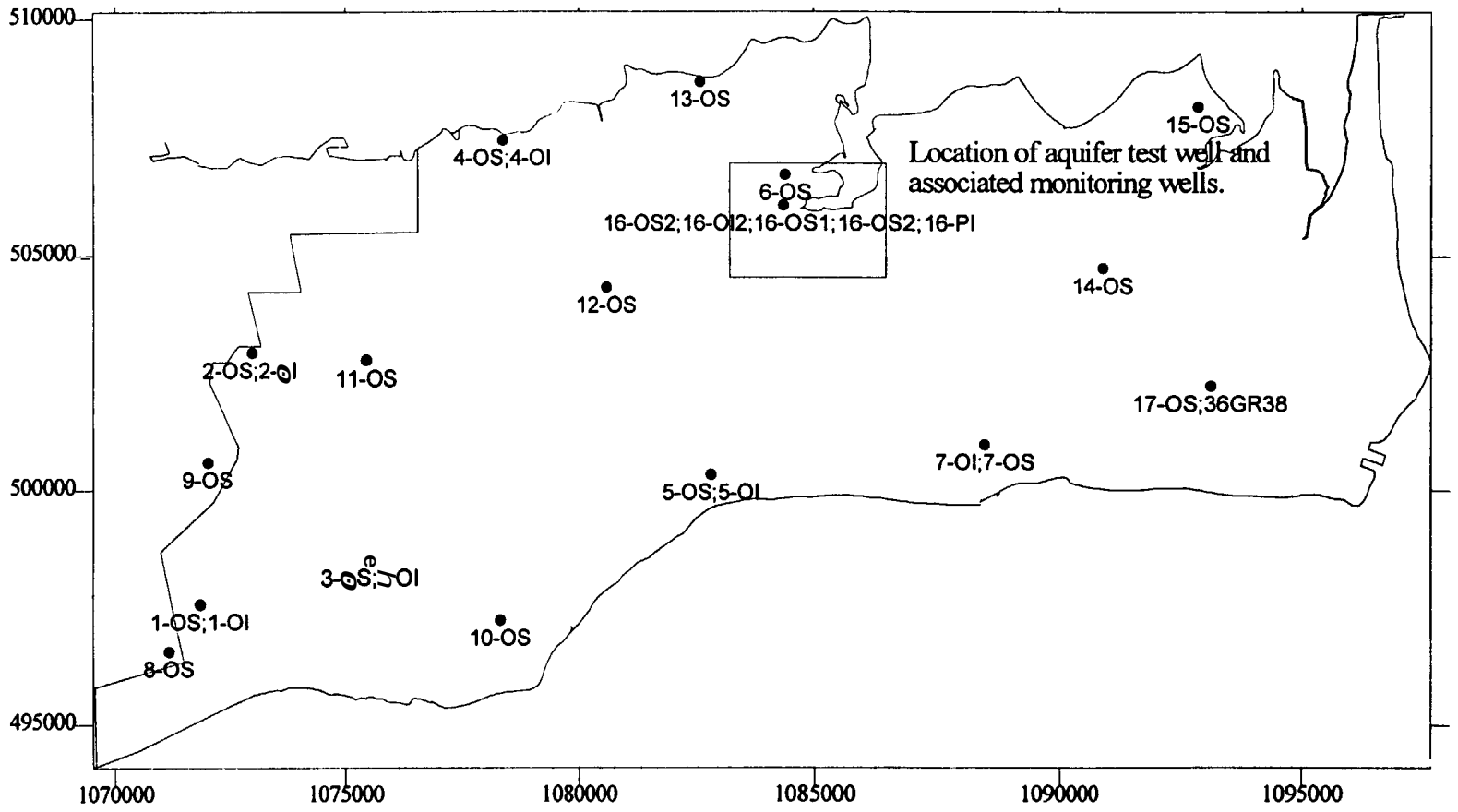
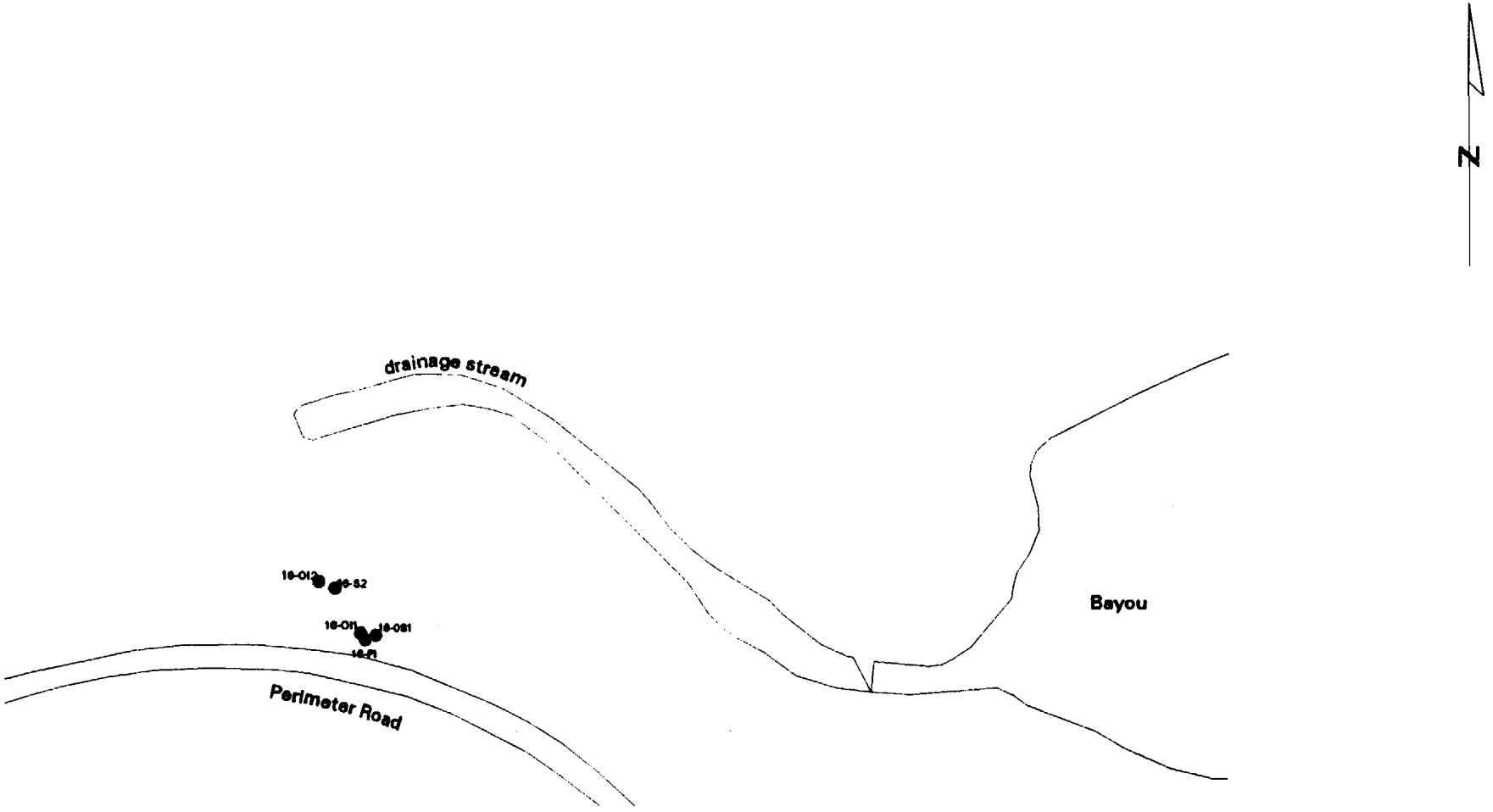


Figure 2-1. Location of wells installed in support of NAS Pensacola numeric groundwater flow model.



NAS Pensacola

Figure B-2

Aquifer Test Site

DRILLING CONTRACTOR G+E Drilling, Inc.

BY Jeff Lunsford DATE 8/97 CHK BY

NAVY CLEAN
ENSAFE/ALLEN & HOSHALL
(901) 383-9115

JOB NO.	CLIENT:	LOCATION
CTO-119	US Navy Southern Div / NAS Pensacola	Pump Test Area

DRILLING METHOD: H.S. Auger assisted with Mud Jetting Sampling Technique

BORING NO. 16-PI

SHEET 1 OF 1

LOCATION OF BORING: 051 ⊗ 052 (Bayou Grande); PI-⊗; ⊗-PS; Forrest Sherman Airfield; Perimeter Rd.; N

DATUM: ELEVATION:

SAMPLING METHOD: 24" Split Spoon (SS) + 30" Shelby Tube (ST)

					DRILLING START	DRILLING FINISH
WATER LEVEL					TIME 1515	TIME 1030
TIME						
DATE					DATE 10/15	DATE 10/16
CASING DEPTH					1996	

SURFACE CONDITIONS:

SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	TIME	SAMPLE NO. / SAMPLE DEPTH	BLOWS/FT SAMPLER	VAPOR CONCENTRATIONS (PPM)	DEPTH IN FEET BLS	SOIL GRAPH	Description
								"Typical" Subsurface Conditions at CTO-119 Pump Test Area (Specific Sample Observations Taken From well 16-PI Local)
						0		0-.2' BLS Level Scrub vegetation Covered land surface w/ Degraded Asphalt Pavement Remnants
							SP/SM	
							SP	.2-25' BLS Med. Brown to Light Gray, Slightly Silty, Fine to Med. Grain Qtz Sand (Observ. from Auger Cuttings) Becoming G.W. Saturated @ 7' BLS
						20		
						30	SP	25-35' BLS Above Sand grades into Lt. Tan to Buff white Clean Qtz Sand, Predominately Med Grain w/ minor Fine and Coarse Grains (≈10% ea.)
SS	24/24	1610	1/35-37			40	SP	35-42' BLS Same Light color sand as above w/ thin tan, iron oxide staining (3-5cm) at 41.7' BLS
SS	24/24	1630	2/40-42					
							SP/SC	42-45' BLS Above sand grades into Silty clayey sand, sandy clay (Extrapolated Interpretation from Above/Below sample observation)
ST	36/30	1700	3/45-47				CH	45-47' BLS Fat, Plastic, Gray, Slightly Sandy (Fine) Marine Clay, (Low Perm. / Confining in Appearance)

47 Ft BLS B.O.H.

Figure B-3 Generalized Lithologic Log - Aquifer Test Site, NAS Pensacola

piezometers **40** radial feet from the test wells **(OS2** [shallow] **and** OI2 [intermediate]). In addition to well installation, two staff gauges were installed to visually monitor surface water. ***SG2*** was placed north of the well clusters in the small drainage stream, and **SG3** was placed in Bayou Redoubt approximately 300 feet due east of the well clusters.

1.2 Specific Capacity Testing

Short-term stepped specific capacity testing was conducted on both the shallow and intermediate production wells immediately following well development. The method of specific capacity testing and the data evaluation was consistent with procedures in the ***CSAP,*** and the Monitoring Well Design, Installation, Construction, and Development Guidelines for Southern Division. The purpose of this testing was to provide some preliminary estimate of the potential discharge rate for the upcoming aquifer testing for each well, and to design and select the pump/discharge system appropriately. Table 1.2 presents the results of the specific capacity testing.

Table 1.2
Specific Capacity Results
NAS Pensacola

Zone	Q (gpm)	Water Level (B.T.O.C)	Drawdown (ft)	Specific Capacity (gpm/ft)
Shallow	0	8.08	—	—
(16-PS)	4	11.75	3.67	1.09
		13.40	5.32	1.13
	8	15.10	7.02	0.98
Intermediate	0	8.27	—	—
(16-PI)	4	9.65	1.38	2.90
	5	10.23	1.96	2.55

Table 1.2
Specific Capacity Results
NAS Pensacola

6	10.5	*2.23*	*2.69*
8	11.4	3.13	*2.55*
9	11.8	*3.53*	*2.55*

Note: ***Water levels cited are stabilized.***

Data extrapolation and evaluation indicated that the shallow well would potentially sustain a discharge rate of 10 gpm, and the intermediate well would potentially sustain a discharge rate of **40** gpm. The shallow well was subsequently outfitted with a Grundfos electric submersible pump, and the intermediate well was **outfitted** with a similar pump. PVC discharge hose connected each of the pumps to the surface, where discharge was routed through approximately 250 feet of 2-inch PVC piping to a manifolded PVC T-junction and drilled spray-outlet pipe, and finally to ground surface. This spray discharge, approximately 250 feet due east **from** the tests well head, allowed diffused discharge of test water such that it would not affect, or at least minimize the consequent effect on test results (i.e. detected as recharge effects). After each well was outfitted, step testing was conducted to determine the eventual discharge rate for the ensuing constant rate tests.

1.3 Short Term Step Testing

Following outfitting **of** the test wells, and prior to constant rate testing, short-term step drawdown tests were conducted on each of the test wells. The primary purpose of this testing was to a) tests the pump/discharge system design for adequacy for **the** upcoming constant rate test, b) to determine the optimum discharge rate for the constant rate test. Although these tests are often executed as a means to determining well efficiency (and, when production well data is used to calculate aquifer parameters, data correction based on well inefficiency), this goal was less critical due to the plan of using observation piezometers as the primary sources of data for aquifer parameter determinations.

Prior to conducting these tests, automatic data loggers and pressure transducers were placed in the observation piezometers; measurements within the test wells themselves were made using electronic water level indicators. For the shallow zone step- and constant rate tests, the following configuration was used to measure water levels:

- Pressure transducers placed in the two shallow piezometers (OS1, OS2) and the two intermediate piezometers (011, 012);

- Hourly measurements were made visually or by electronic water level indicator on staff gauges (SG2, SG3) and the shallow production well (PS);

- In addition to measuring water levels, a function transducer was used to constantly measure the ambient barometric pressure in the event that corrections to the data needed to be made based on changes in the weather.

For the intermediate zone step- and constant rate tests, a similar water level measurement configuration was used, with the exception that shallow zone piezometers were monitored hourly using an electronic water level indicator.

The procedure for conducting the step-tests was to:

- start pumping at low discharge rate; measure the drawdown (s) in the tested well and adjacent piezometers (discharge at this rate continued until stabilization of water levels).

- increase the discharge rate (beginning another "step"); follow the same measurement procedures as in the first step.

- continue increasing discharge in a stepped fashion until a) maximum rate of the pump was reached, or b) maximum rate of withdrawal for the well was reached.

The results of the step-testing will be discussed in the following section.

1.4 Constant Rate Testing

Following the step-testing, each of the test wells was allowed a minimum of 24-hours recovery period prior to starting the ensuing constant rate test. The purpose of the constant rate tests was to stress the aquifer at the point of the test well by as much as the capabilities of the test well would allow. The intent of this procedure was two-fold: this serves as the best simulation of long-term high volume extraction typical of most remedial systems, and also serves to establish stabilization within the aquifer under stressed conditions, providing representative data as to more regional hydrologic conditions not evident under ambient conditions. These can include groundwater surface water interactions, aquifer dewatering and delayed yield response, and hydrologic boundaries. The methodology employed for both the shallow and intermediate zone constant rate tests was consistent with the CSAP. Additionally, each of the constant rate tests was executed for a minimum of 24 hours.

The results of the constant rate tests will be discussed in the following section.

1.5 Recovery Testing

Following the constant rate testing, the recovery of the groundwater level was monitored in each of the tested intervals. The configuration of pressure transducers that was utilized during the constant rate tests was retained for the recovery periods. The purpose of the recovery monitoring was to provide a secondary set of measurements to calculate transmissivity using residual drawdown plots; storativity was not calculated from the recovery data. For each test, the recovery was measured for a minimum of 24 hours.

2.0 Results

2.1 Step Testing

Table 2.1 presents the summary of results of the step testing conducted on both the shallow and intermediate test wells.

Table 2.1
Step Test Results
NAS Pensacola

Zone	Step	Q (gpm)	Water Level (B.T.O.C)	Drawdown (ft)
Shallow	0	0	8.52	—
	1	4	11.73	3.21
	2	10.5	17.96	9.44
Intermediate	0	0	8.78	—
	1	32	21.37	12.59
	2	42	25.15	16.37
	3	44	25.40	16.62

As a result of the step testing, the maximum discharge rates for the ensuing constant rate tests were determined to be 10.5 gpm for the shallow and 44 gpm for the intermediate.

2.2 Constant Rate Testing

The constant rate test for the intermediate zone was conducted on 11 December 1996, and the test for the shallow zone was conducted on 16 December 1996. Each test will be discussed separately in the following section. All analyses were conducted using AQTESOLV, a commercially available aquifer test analysis software package. Due to its proprietary nature, the reader is referred to the program documentation for analytical techniques and assumptions contained within the software. The raw data logger files for the constant rate and recovery tests are contained in Attachment 1, and the AQTESOLV input files and curve matches are contained in Attachment 2.

Tidal Effects on Site Groundwater Levels

Figures **2-1** and **2-2** present graphical summary compilations of water levels during the shallow and intermediate zone tests, respectively. These figures offer clear evidence, through the correlation of tidal changes measured in SG-3 and groundwater level changes in the onsite wells, that the most influential outside factor in changes in groundwater is the tidal influence (there was only one rain event during the entire time of testing, as depicted on Figure **2-1;** the immediate changes due to rainfall were most dramatic in the freshwater drainage stream on the north side of the site and less evident in onsite groundwater levels). As a result of this determination, the resulting tests data was reduced to account for obvious tidal effects. Only that data clearly not tidally affected was utilized for the aquifer parameter calculations.

Shallow Zone Test

The shallow zone test was conducted for a total of 1420 minutes. Again, Figure **2-1** presents a compilation of the water levels measured during the shallow zone test, and Table 2.2 presents a compilation of the water level drawdowns. The trend of water level measurements in the groundwater levels and the bayou surface water in SG-3 is clear; there is a perfect correlation between the two. Consequently, there is a direct correlation between near-shore groundwater levels and tidal effects. The tide began rising in the bayou approximately 300 minutes after the start of the test, and these effects are evident (after a short time lag) in the groundwater levels. Due to the potential corrections inherent in tidal influences, the data to be analyzed for the shallow test was limited to **400** minutes, that portion which is unaffected by apparent tidal changes. This reduction is legitimized by the fact there are no clearly dominant changes in groundwater trends after 400 minutes with the exception of those coincident with tides. Thus, it is concluded that ambient conditions are primarily influenced by tides and that stable pumping conditions had been reached by 400 minutes elapsed time.

Shallow Zone Test

Gauges, Shallow and Intermediate Wells

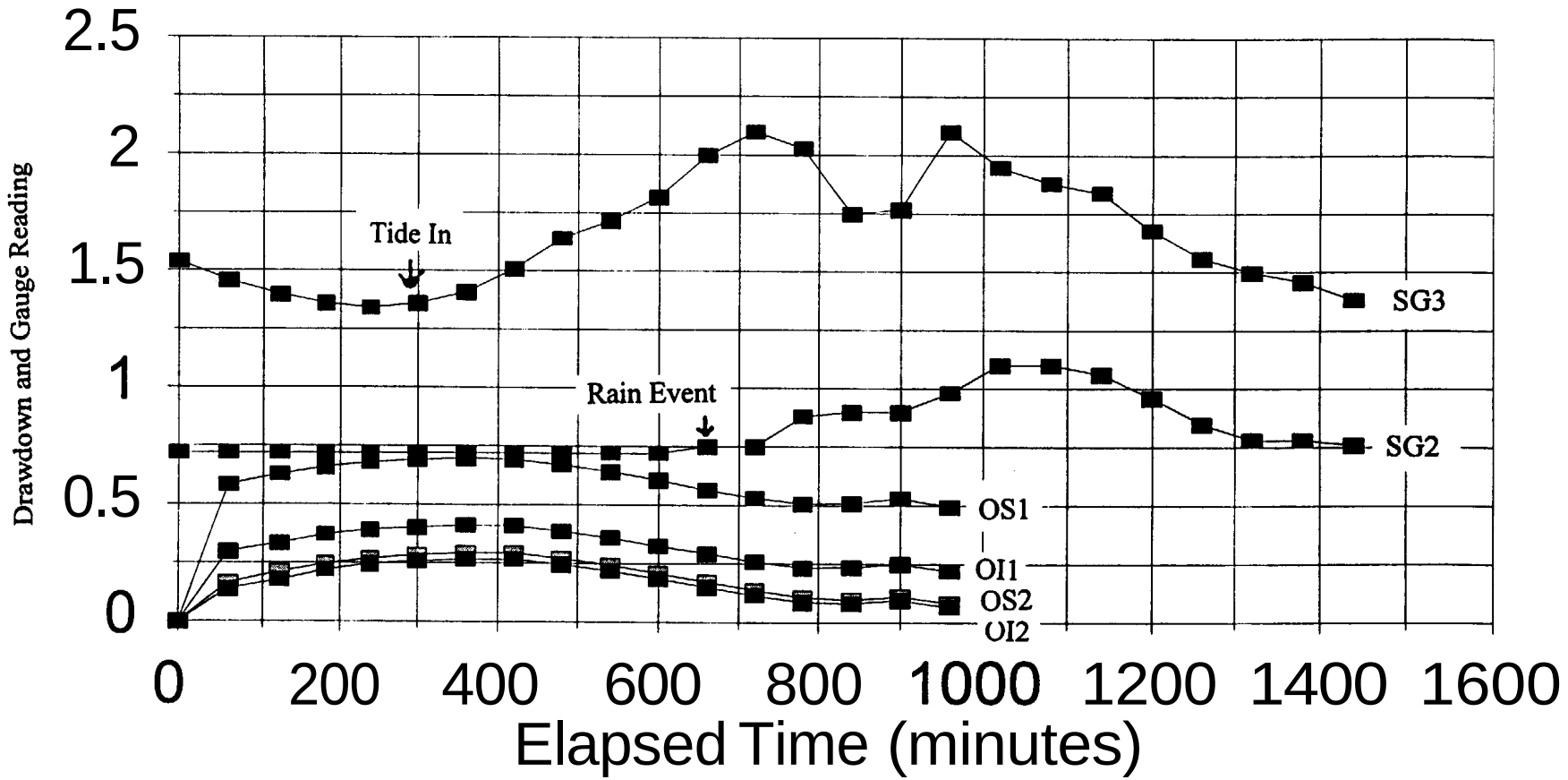


Figure B-4 **Shallow Zone** Test *Summary*

Intermediate Zone Test

Guages, Shallow and Intermediate Wells

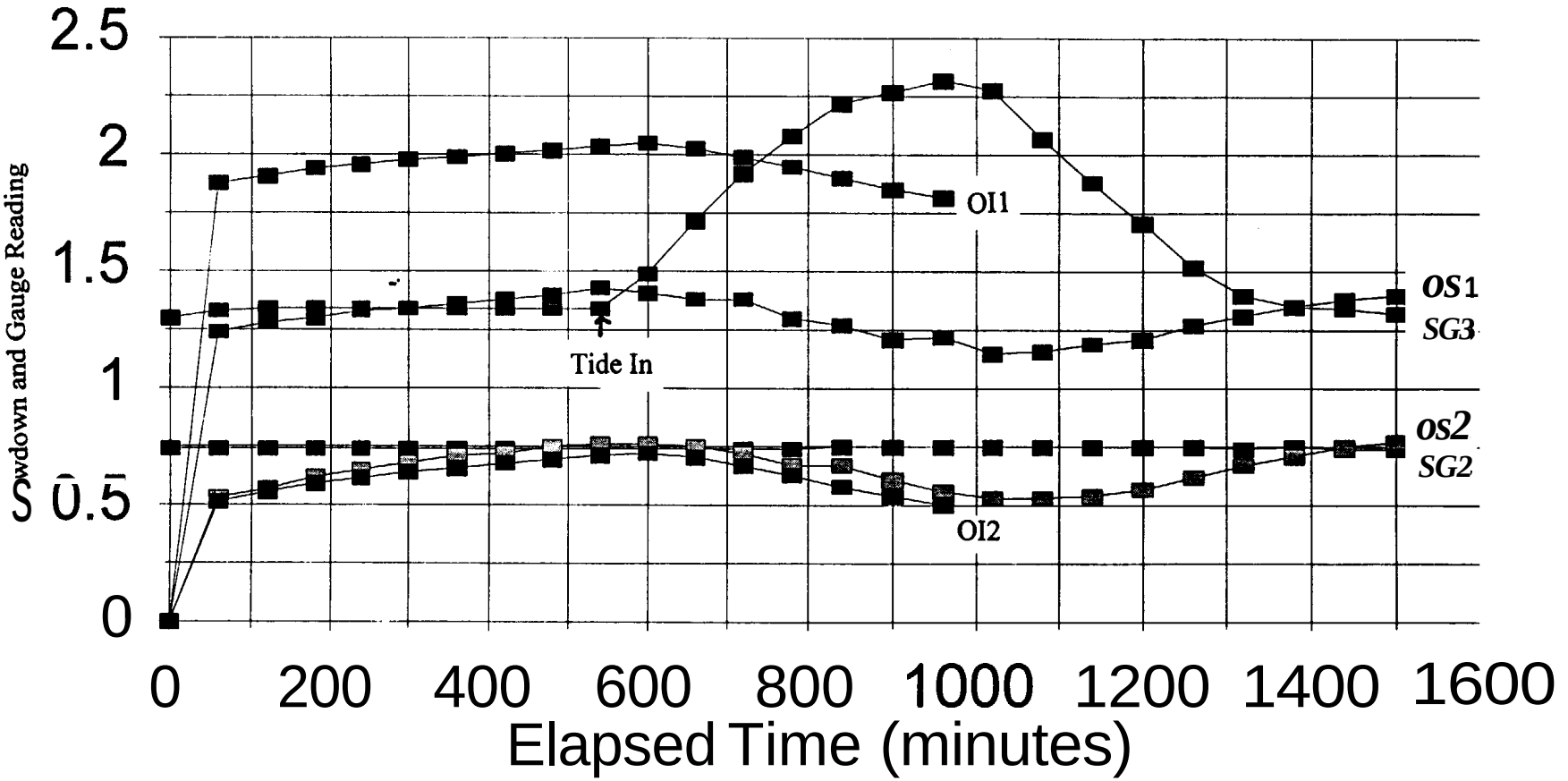


Figure B-5 Intermediate Zone Test Summary

It is notable that drawdowns in the intermediate zone piezometers were similar to those in the shallow zone. This is clear evidence that the two zones experience unhindered hydraulic connection, and that withdrawal demands on the upper 20 feet of aquifer will also rely on fulfilling those demands from water derived from the lower 20 feet.

Because of the lithology encountered during drilling, the shallow zone test results were analyzed using unconfined solutions. The data from the observation piezometers were used to calculate transmissivity and storage, and the production well results were used to calculate transmissivity. In general, curve matches were quite good. It is notable that the drawdown curves for the shallow zone, and in particular OS2, exhibit characteristic unconfined (ie. Neuman) response, with secondary drawdown beginning approximately 11 minutes elapsed time. Table 2.3 presents the summary of the resultant calculated parameter values using various analytical techniques.

Table 2.2
Shallow Zone Constant Rate Test Summary
NAS Pensacola

Time	SG 2	SG 3	PS	OS 1	OS 2	011	012
0	0.72	1.54	8.41	—	—	—	—
60	0.72	1.46	17.59	0.584	0.164	0.299	0.141
120	0.72	1.40	17.63	0.629	0.214	0.333	7
180	0.72	1.36	17.41	0.66	0.246	0.371	0.22
240	0.72	1.34	17.69	0.679	0.268	0 393	1
300	0.72	1.36	17.7	0.689	0.284	0.403	0.258
360	0.72	1.41	17.7	0.698	0.293	0.412	0 5'
420	0.72	1.51	17.7	0.692	0.293	0.409	0.267
480	0.72	1.64	17.65	0.67	0.271	0.387	0.245
540	0.72	1.72	17.59	0.641	0.243	0.359	0.217

Table 2.2
Shallow Zone Constant Rate Test Summary
NAS Pensacola

600	0.72	1.82	17.55	0.607	0.208	0.324	0.185
660	0.75	2	17.56	0.565	0.173	0.293	0.151
720	0.75	2.1	17.5	0.531	0.138	0.258	0.116
780	0.88	2.03	17.51	0.509	0.107	0.233	0.088
840	0.9	1.75	17.53	0.512	0.097	0.236	0.081
900	0.9	1.77	17.55	0.531	0.113	0.252	0.097
960	0.98	2.1	17.55	0.496	0.085	0.22	0.066
1020	1.1	1.95	17.53				
1080	1.1	1.88	17.52				
1140	1.06	1.84	17.57				
1200	0.96	1.68	17.62				
1260	0.85	1.56	17.63				
1320	0.78	1.5	17.52				
1380	0.78	1.46	17.85				
1440	0.76	1.38	17.88				

Note: Time shown is elapsed time in minutes.
Staff gauge readings are not relative to MSL, but taken directly from the gauge.
Measurements past 1020 elapsed minutes for OS1, OS2, OI1 and 012 were collected, but are not synoptic with elapsed times shown (see data logger file).

Table 2.3
Summary of Shallow Zone Aquifer Parameters
NAS Pensacola

Well ID	Analytical Method	Results (ft^2/d)	Storativity
16-OS1	Theis	1.26	.009
	Cooper-Jacob	1.33	.004
	Theis Recovery	0.72	
	Neuman	0.98	*
16-os2	Theis (early)	3.52	.002
	Theis (late)	1.68	.007
	Cooper-Jacob	3.02	.002
	Theis Recovery	3.98	
	Neuman	2.28	*
16-PS	Theis Recovery	1.295	

Note: *Due to hardware/software limitations, Neuman curve matches could not be graphically presented.*

Intermediate Zone Testing

The intermediate zone test was conducted for a total of 1480 minutes. Figure 2-1 presents a compilation of the water levels during the test, and Table 2.4 presents a summary of the drawdowns. As was the case with the shallow zone test, the water levels open to the intermediate zone respond to tidal changes. The first notable tidal change during the tests, as measured in the staff gauge was at 500 minutes, with groundwater levels responding at approximately 600 minutes. Consequently, only the first 600 minutes of data were used in the tests analyses.

The intermediate test results were analyzed using confined (e.g. the ambient water levels rose above the top of the zone) solutions. The data from the observation piezometers were used to calculate transmissivity and storage, and the production well results were used to calculate transmissivity. Notably, drawdown in the outlying piezometers indicated slightly greater drawdown in the shallow zone than the intermediate zone. Table 2.5 presents the resultant calculated parameter values using various analytical techniques.

Table 2.4
Intermediate Zone Constant Rate Test Summary
NAS Pensacola

Time	SG2	SG 3	PI	OS 1	OS 2	0 1 1	0 1 2	OS1 dd	OS2 dd
0	0.74	1.3	8.72	11.14	11.45	0	0	0	0
60	0.74	1.33	25	12.38	11.98	1.877	0.513	1.24	.53
120	0.74	1.34	24.9	12.42	12.02	1.909	0.557	1.28	.57
180	0.74	1.34	24.85	12.44	12.07	1.94	0.592	1.3	.62
240	0.74	1 4	24.9	12 47	12.1	1.959	0.614	1.33	.65
300	0.74	1.34	24.91	12.48	12.13	1.978	0.639	1.34	.68
360	0.74	1.34	24.93	12.5	12.16	1.99	0.658	1.36	.71
420	0.74	1.34	24.92	12.52	12.17	2.006	0.677	1.38	.72
480	0.74	1.34	24.93	12.54	12.2	2.019	0.696	1.4	.75
540	0.74	1.34	25.02	12.57	12.21	2.038	0.712	1.43	.76
600	0.74	1.49	25.09	12.55	12.21	2.05	0.721	1.41	.76
660	0.74	1.72	25.12	12.52	12.2	2.028	0.706	1.38	.75
720	0.74	1.92	25.07	12.52	12.17	1.99	0.668	1.38	.72
780	0.74	2.08	25.11	12.44	12.12	1.95	0.627	1.3	.67

Table 2.4
Intermediate Zone Constant Rate Test Summary
NAS Pensacola

840	0.75	2.22	25.02	12.41	12.12	1.902	0.579	1.27	.67
900	0.75	2.27	24.91	12.35	12.06	1.852	0.539	1.21	.61
960	0.75	2.32	24.86	12.36	12.01	1.817	0.504	1.22	.56
1020	0.75	2.28	24.85	12.29	11.98			1.15	.53
1080	0.75	2.07	24.87	12.3	11.98			1.16	.53
1140	0.75	1.88	24.88	12.33	11.99			1.19	.54
1200	0.75	1.71	24.54	12.35	12.02			1.21	.57
1260	0.75	1.52	25.04	12.41	12.07			1.27	.62
1320	0.74	1.4	25.09	12.45	12.12			1.31	.67
1380	0.75	1.35	25.15	12.49	12.16			1.35	.71
1440	0.74	1.34	25.1	12.52	12.2			1.38	.75
1500	0.74	1.32	25.14	12.54	12.22			1.4	.77

Note: Time shown is elapsed time in minutes.
Staff gauge readings are not relative to MSL, but taken directly from the gauge.
Measurements past 1020 elapsed minutes for OS1, OS2, OI1 and 012 were collected, but are not synoptic with elapsed times shown (see data logger file).

Table 2.5
Summary of Intermediate Zone Aquifer Parameters
NAS Pensacola

		Results	
Well ID	**Analytical Method**	**T (ft^2/d)**	**Storativity**

Table 2.5
Summary of Intermediate Zone Aquifer Parameters
NAS Pensacola

16-011	Theis	1.87	.002
	Cooper-Jacob	1.05	.003
	Papadapoulos-Cooper	2.26	.001
	Theis Recovery	0.82	
16-012	Theis	5.12	.001
	Cooper-Jacob	5.96	.001
	Papadapoulos-Cooper	5.12	.001
	Theis Recovery	4.97	
16-PI	Theis Recovery	2.844	

2.3 Recovery Monitoring

Recovery periods for both the shallow and intermediate zones lasted for a minimum of 24 hours. Attachment 1 contains the raw transducer data generated during the recovery monitoring period for both the shallow and intermediate zones, and Attachment 2 contains the reduced recovery data files used for analysis and the curve matches. The Theis recovery method was used for the analyses. Tables 2.3 and 2.5 present the results of the recovery calculations.

3.0 CONCLUSIONS

Relatively long-term (24 hours) constant rate aquifer tests were conducted on the shallow and intermediate zones of the surficial Sand-and-Gravel aquifer at NAS Pensacola. No significant problems were encountered during the tests, and the data are useable for aquifer parameter determinations.

Tidal changes exerted a good deal of influence on site groundwater levels; as a result only that portion of data clearly not affected by tidal changes was used for analyses. The shallow zone data (both constant rate and recovery) were analyzed using unconfined solutions, and were in reasonable agreement with each other. The intermediate zone data (again, both constant rate and recovery) were analyzed using confined solutions, and were also in reasonable agreement. Contrary to previous aquifer tests (slug and specific capacity tests) conducted on the eastern side of NASP, these results indicate that the transmissivity in the lower portion of the surficial is greater than that of the upper portion.

Perhaps one of the most significant aspects of this testing was the determination of the degree to which each zone is affected during extraction in the other. While some effects were to be expected, similar drawdowns were experienced by opposing zone wells at the same horizontal distances from extraction wells. This fact will clearly affect remedial design, and should be considered during feasibility study and design project phases. For the purpose of modeling, the degree of this hydraulic connection lends support to not separating the shallow and intermediate zones into distinct layers, but rather to consider them as one.

ATTACHMENT 1

DATA LOGGER FILES FOR SHALLOW AND INTERMEDIATE CONSTANT RATE AND RECOVERY TEST

SHALLOW ZONE CONSTANT RATE TEST

Input 1: OI1
Input 2: 012
Input 3: Barometric
Input 4: OS1
Input 5: OS2

Setups:	INPUT 1	INPUT 2	INPUT 3	INPUT 4	INPUT 5
Type	Level (F)	Level (F)	Function	Level (F)	Level (F)
Mode	Surface	Surface	Surface	Surface	
I.D.	054002				
Reference	0.000	0.000	0.000	0.000	
PSI at Ref.	8.413	8.247	4.813	4.414	
SG	1.000	1.000	1.000	1.000	
Linearity	0.012	0.002	0.045	0.044	0.054
Scale factor	9.971	9.992	7.981	9.985	9.974
Offset	-0.002	-0.010	8.018	0.049	0.017
Delay mSEC	50.000	50.000	50.000	50.000	50.000

Step 0 12/16 07:49:24

Elapsed Time	INPUT 1	INPUT 2	INPUT 3	INPUT 4	INPUT 5
0.0000	0.000	0.000	14.772	0.000	0.000
0.0083	-0.003	0.000	14.772	0.000	0.000
0.0166	-0.003	0.000	14.772	0.000	0.000
0.0250	0.000	0.000	14.772	0.000	0.000
0.0333	0.000	0.000	14.772	0.000	0.000
0.0416	-0.003	0.000	14.772	0.000	-0.003
0.0500	-0.003	0.000	14.772	0.000	0.000
0.0583	-0.003	0.000	14.772	-0.003	0.000
0.0666	-0.003	0.000	14.772	-0.006	0.000
0.0750	-0.003	0.000	14.772	-0.006	0.000
0.0833	-0.003	0.000	14.772	-0.009	0.000
0.0916	-0.003	0.000	14.772	-0.012	0.000
0.1000	-0.003	0.000	14.772	-0.018	0.000
0.1083	-0.006	0.000	14.772	-0.022	0.000
0.1166	-0.006	0.000	14.772	-0.028	0.000
0.1250	-0.006	0.000	14.772	-0.034	0.000
0.1333	-0.009	0.000	14.772	-0.037	0.000
0.1416	-0.009	0.000	14.772	-0.044	0.000
0.1500	-0.012	0.000	14.772	-0.050	0.000

0.1583	-0.012	0.000	14.772	-0.056	0.000
0.1666	-0.015	0.000	14.772	-0.060	0.000
0.1750	-0.015	0.000	14.772	-0.066	0.000
0.1833	-0.015	0.000	14.772	-0.072	0.000
0.1916	-0.018	0.000	14.772	-0.079	0.000
0.2000	-0.018	0.000	14.772	-0.085	0.000
0.2083	-0.022	0.000	14.772	-0.088	0.000
0.2166	-0.022	0.000	14.772	-0.094	-0.003
0.2250	-0.025	0.000	14.772	-0.101	0.000
0.2333	-0.025	0.000	14.772	-0.107	-0.003
0.2416	-0.028	-0.003	14.772	-0.110	-0.003
0.2500	-0.028	-0.003	14.772	-0.116	-0.003
0.2583	-0.028	-0.003	14.772	-0.120	-0.003
0.2666	-0.031	-0.003	14.772	-0.126	-0.003
0.2750	-0.034	-0.003	14.772	-0.129	-0.003
0.2833	-0.034	-0.003	14.771	-0.132	-0.003
0.2916	-0.034	-0.003	14.772	-0.139	-0.003
0.3000	-0.037	-0.003	14.772	-0.142	-0.003
0.3083	-0.040	-0.006	14.772	-0.148	-0.003
0.3166	-0.040	-0.003	14.772	-0.151	-0.003
0.3250	-0.040	-0.006	14.771	-0.154	-0.006
0.3333	-0.044	-0.003	14.771	-0.158	-0.006
0.3500	-0.044	-0.006	14.772	-0.167	-0.006
0.3666	-0.047	-0.003	14.772	-0.173	-0.006
0.3833	-0.050	-0.006	14.772	-0.180	-0.006
0.4000	-0.053	-0.006	14.772	-0.189	-0.006
0.4166	-0.056	-0.006	14.771	-0.196	-0.006
0.4333	-0.059	-0.006	14.771	-0.202	-0.006
0.4500	-0.059	-0.006	14.771	-0.208	-0.006
0.4666	-0.063	-0.009	14.771	-0.215	-0.009
0.4833	-0.066	-0.009	14.771	-0.221	-0.009
0.5000	-0.066	-0.009	14.771	-0.227	-0.009
0.5166	-0.069	-0.009	14.771	-0.230	-0.009
0.5333	-0.072	-0.009	14.771	-0.240	-0.009
0.5500	-0.075	-0.009	14.772	-0.243	-0.009
0.5666	-0.075	-0.009	14.772	-0.246	-0.009
0.5833	-0.078	-0.012	14.772	-0.252	-0.009
0.6000	-0.081	-0.012	14.771	-0.259	-0.012
0.6166	-0.081	-0.012	14.772	-0.262	-0.012
0.6333	-0.085	-0.012	14.772	-0.268	-0.015
0.6500	-0.088	-0.015	14.772	-0.275	-0.015
0.6666	-0.088	-0.012	14.771	-0.278	-0.015
0.6833	-0.091	-0.015	14.772	-0.284	-0.015
0.7000	-0.094	-0.015	14.772	-0.287	-0.015
0.7166	-0.094	-0.015	14.772	-0.294	-0.015

0.7333	-0.097	-0.015	14.772	-0.297	-0.018
0.7500	-0.100	-0.015	14.772	-0.300	-0.018
0.7666	-0.100	-0.018	14.772	-0.306	-0.018
0.7833	-0.103	-0.018	14.772	-0.309	-0.018
0.8000	-0.103	-0.018	14.772	-0.313	-0.018
0.8166	-0.107	-0.018	14.772	-0.316	-0.018
0.8333	-0.107	-0.022	4.772	-0.322	-0.022
0.8500	-0.110	-0.022	4.772	-0.325	-0.022
0.8666	-0.110	-0.022	4.772	-0.325	-0.022
0.8833	-0.113	-0.022	4.772	-0.331	-0.022
0.9000	-0.116	-0.022	4.772	-0.335	-0.022
0.9166	-0.116	-0.022	4.772	-0.338	-0.025
0.9333	-0.119	-0.025	4.772	-0.338	-0.025
0.9500	-0.119	-0.025	14.772	-0.344	-0.025
0.9666	-0.119	-0.025	14.772	-0.344	-0.025
0.9833	-0.122	-0.025	14.772	-0.347	-0.025
1.0000	-0.122	-0.025	14.772	-0.350	-0.025
1.2000	-0.141	-0.031	14.772	-0.379	-0.031
1.4000	-0.151	-0.034	14.772	-0.398	-0.037
1.6000	-0.160	-0.037	14.772	-0.417	-0.041
1.8000	-0.170	-0.044	14.772	-0.429	-0.047
2.0000	-0.176	-0.047	14.771	-0.439	-0.050
2.2000	-0.182	-0.050	14.772	-0.452	-0.053
2.4000	-0.189	-0.053	14.772	-0.458	-0.053
2.6000	-0.192	-0.056	14.772	-0.464	-0.056
2.8000	-0.198	-0.056	14.772	-0.467	-0.059
3.0000	-0.201	-0.059	14.772	-0.471	-0.063
3.2000	-0.201	-0.059	14.772	-0.477	-0.063
3.4000	-0.207	-0.063	14.772	-0.480	-0.066
3.6000	-0.207	-0.063	14.772	-0.483	-0.066
3.8000	-0.207	-0.066	14.772	-0.486	-0.066
4.0000	-0.211	-0.066	14.772	-0.486	-0.069
4.2000	-0.214	-0.066	14.772	-0.490	-0.069
4.4000	-0.214	-0.069	14.772	-0.486	-0.069
4.6000	-0.214	-0.069	14.772	-0.490	-0.072
4.8000	-0.217	-0.069	14.772	-0.493	-0.072
5.0000	-0.217	-0.069	14.772	-0.496	-0.075
5.2000	-0.220	-0.069	14.772	-0.496	-0.075
5.4000	-0.220	-0.072	14.772	-0.499	-0.075
5.6000	-0.220	-0.072	14.772	-0.499	-0.075
5.8000	-0.223	-0.072	14.772	-0.502	-0.078
6.0000	-0.223	-0.075	14.772	-0.502	-0.078
6.2000	-0.223	-0.075	14.772	-0.502	-0.078
6.4000	-0.226	-0.075	14.772	-0.502	-0.078
6.6000	-0.223	-0.075	14.772	-0.502	-0.078

6.8000	-0.226	-0.075	14.771	-0.505	-0.078
7.0000	-0.226	-0.075	14.772	-0.505	-0.082
7.2000	-0.226	-0.075	14.772	-0.505	-0.082
7.4000	-0.230	-0.078	14.772	-0.509	-0.082
7.6000	-0.230	-0.078	14.772	-0.509	-0.085
7.8000	-0.230	-0.078	14.772	-0.512	-0.085
8.0000	-0.233	-0.078	14.771	-0.509	-0.085
8.2000	-0.233	-0.081	14.771	-0.512	-0.085
8.4000	-0.233	-0.081	14.771	-0.512	-0.085
8.6000	-0.233	-0.081	14.771	-0.512	-0.085
8.8000	-0.236	-0.081	14.771	-0.515	-0.088
9.0000	-0.236	-0.081	14.771	-0.515	-0.085
9.2000	-0.236	-0.081	14.771	-0.515	-0.088
9.4000	-0.236	-0.081	14.771	-0.515	-0.088
9.6000	-0.236	-0.081	14.771	-0.515	-0.088
9.8000	-0.236	-0.081	14.771	-0.515	-0.088
10.0000	-0.236	-0.085	14.771	-0.515	-0.088
12.0000	-0.242	-0.088	14.770	-0.521	-0.094
14.0000	-0.248	-0.091	14.771	-0.527	-0.101
16.0000	-0.252	-0.097	14.771	-0.531	-0.104
18.0000	-0.255	-0.097	14.771	-0.534	-0.107
20.0000	-0.255	-0.100	14.772	-0.537	-0.110
22.0000	-0.258	-0.100	14.772	-0.540	-0.113
24.0000	-0.258	-0.104	14.770	-0.543	-0.116
26.0000	-0.264	-0.110	14.770	-0.543	-0.119
28.0000	-0.267	-0.110	14.770	-0.546	-0.123
30.0000	-0.267	-0.113	14.770	-0.550	-0.126
32.0000	-0.267	-0.113	14.771	-0.553	-0.129
34.0000	-0.270	-0.116	14.770	-0.556	-0.129
36.0000	-0.277	-0.122	14.770	-0.559	-0.135
38.0000	-0.280	-0.122	14.771	-0.562	-0.138
40.0000	-0.277	-0.122	14.771	-0.562	-0.138
42.0000	-0.280	-0.126	14.771	-0.565	-0.142
44.0000	-0.283	-0.129	14.772	-0.569	-0.145
46.0000	-0.289	-0.132	14.771	-0.572	-0.148
48.0000	-0.289	-0.135	14.772	-0.575	-0.148
50.0000	-0.289	-0.135	14.773	-0.575	-0.154
52.0000	-0.293	-0.138	14.773	-0.578	-0.154
54.0000	-0.296	-0.141	14.773	-0.581	-0.157
56.0000	-0.296	-0.141	14.773	-0.581	-0.157
58.0000	-0.299	-0.144	14.773	-0.584	-0.160
60.0000	-0.299	-0.141	14.775	-0.584	-0.164
62.0000	-0.302	-0.144	14.775	-0.588	-0.167
64.0000	-0.305	-0.151	14.772	-0.588	-0.164
66.0000	-0.305	-0.151	14.772	-0.591	-0.170

68.0000	-0.305	-0.151	14.772	-0.591	-0.170
70.0000	-0.308	-0.154	14.772	-0.594	-0.173
72.0000	-0.311	-0.157	14.772	-0.597	-0.176
74.0000	-0.311	-0.157	14.772	-0.597	-0.179
76.0000	-0.311	-0.157	14.771	-0.600	-0.179
78.0000	-0.315	-0.160	14.771	-0.603	-0.183
80.0000	-0.315	-0.160	14.771	-0.603	-0.183
82.0000	-0.318	-0.163	14.771	-0.603	-0.183
84.0000	-0.318	-0.167	14.771	-0.607	-0.189
86.0000	-0.321	-0.167	14.771	-0.610	-0.189
88.0000	-0.321	-0.167	14.771	-0.610	-0.192
90.0000	-0.324	-0.173	14.772	-0.613	-0.192
92.0000	-0.327	-0.173	14.772	-0.613	-0.192
94.0000	-0.330	-0.176	14.773	-0.613	-0.195
96.0000	-0.330	-0.176	14.772	-0.616	-0.195
98.0000	-0.333	-0.179	14.772	-0.616	-0.198
100.000	-0.333	-0.179	14.772	-0.619	-0.202
120.000	-0.346	-0.192	14.769	-0.629	-0.214
140.000	-0.356	-0.204	14.767	-0.641	-0.227
160.000	-0.365	-0.214	14.760	-0.651	-0.239
180.000	-0.371	-0.220	14.755	-0.660	-0.246
200.000	-0.381	-0.230	14.751	-0.667	-0.255
220.000	-0.387	-0.239	14.745	-0.673	-0.265
240.000	-0.393	-0.245	14.740	-0.679	-0.268
260.000	-0.396	-0.249	14.733	-0.682	-0.274
280.000	-0.403	-0.255	14.727	-0.689	-0.280
300.000	-0.403	-0.258	14.718	-0.689	-0.284
320.000	-0.409	-0.264	14.712	-0.695	-0.287
340.000	-0.409	-0.264	14.704	-0.695	-0.290
360.000	-0.412	-0.267	14.701	-0.698	-0.293
380.000	-0.412	-0.271	14.696	-0.698	-0.296
400.000	-0.412	-0.267	14.693	-0.698	-0.296
420.000	-0.409	-0.267	14.690	-0.692	-0.293
440.000	-0.403	-0.261	14.684	-0.686	-0.287
460.000	-0.396	-0.255	14.684	-0.679	-0.280
480.000	-0.387	-0.245	14.680	-0.670	-0.271
500.000	-0.378	-0.239	14.678	-0.663	-0.265
520.000	-0.371	-0.230	14.672	-0.651	-0.252
540.000	-0.359	-0.217	14.669	-0.641	-0.243
560.000	-0.346	-0.204	14.657	-0.625	-0.230
580.000	-0.340	-0.198	14.658	-0.619	-0.220
600.000	-0.324	-0.185	14.657	-0.607	-0.208
620.000	-0.311	-0.170	14.641	-0.591	-0.195
640.000	-0.305	-0.163	14.646	-0.581	-0.186
660.000	-0.293	-0.151	14.645	-0.565	-0.173

680.000	-0.283	-0.141	14.653	-0.559	-0.164
700.000	-0.270	-0.129	14.650	-0.546	-0.151
720.000	-0.258	-0.116	14.651	-0.531	-0.138
740.000	-0.242	-0.104	14.657	-0.518	-0.126
760.000	-0.236	-0.094	14.661	-0.509	-0.116
780.000	-0.233	-0.088	14.670	-0.509	-0.107
800.000	-0.226	-0.078	14.679	-0.502	-0.097
820.000	-0.230	-0.078	14.680	-0.505	-0.094
840.000	-0.236	-0.081	14.684	-0.512	-0.097
860.000	-0.242	-0.088	14.688	-0.521	-0.104
880.000	-0.252	-0.094	14.693	-0.531	-0.110
900.000	-0.252	-0.097	14.693	-0.531	-0.113
920.000	-0.248	-0.091	14.691	-0.527	-0.110
940.000	-0.230	-0.078	14.694	-0.509	-0.097
960.000	-0.220	-0.066	14.699	-0.496	-0.085
980.000	-0.207	-0.053	14.703	-0.483	-0.072
1000.00	-0.198	-0.047	14.706	-0.477	-0.066
1060.00	-0.198	-0.040	14.707	-0.477	-0.053
1120.00	-0.201	-0.037	14.720	-0.480	-0.053
1180.00	-0.211	-0.050	14.727	-0.490	-0.063
1240.00	-0.245	-0.085	14.731	-0.521	-0.094
1300.00	-0.283	-0.126	14.736	-0.562	-0.135
1360.00	-0.315	-0.160	14.740	-0.600	-0.170
1420.00	-0.346	-0.192	14.747	-0.629	-0.205

SHALLOW ZONE RECOVERY TEST

Input 1: 011
Input 2: 012
Input 3: Barometric
Input 4: OS1
Input 5: OS2

Setups:	INPUT 1	INPUT 2	INPUT 3	INPUT 4	INPUT 5
Type	Level (F)	Level (F)	Function	Level (F)	Level (F)
Mode	Surface	Surface	Surface	Surface	
I.D.	054002				
Reference	0.000	0.000	0.000	0.000	
PSI at Ref.	8.413	8.247	4.813	4.414	
SG	1.000	1.000	1.000	1.000	
Linearity	0.012	0.002	0.045	0.044	0.054
Scale factor	9.971	9.992	7.981	9.985	9.974
Offset	-0.002	-0.010	8.018	0.049	0.017
Delay mSEC	50.000	50.000	50.000	50.000	50.000

Step 1 12/1708:28:35

Elapsed Time	INPUT 1	INPUT 2	INPUT 3	INPUT 4	INPUT 5
0.0000	-0.374	-0.223	14.756	-0.654	-0.233
0.0083	-0.374	-0.223	14.756	-0.654	-0.233
0.0166	-0.374	-0.223	14.756	-0.654	-0.233
0.0250	-0.374	-0.223	14.756	-0.651	-0.233
0.0333	-0.374	-0.223	14.756	-0.651	-0.233
0.0416	-0.374	-0.223	14.756	-0.651	-0.233
0.0500	-0.374	-0.223	14.756	-0.648	-0.233
0.0583	-0.374	-0.223	14.756	-0.644	-0.233
0.0666	-0.371	-0.223	14.756	-0.641	-0.233'
0.0750	-0.371	-0.223	14.756	-0.638	-0.233
0.0833	-0.371	-0.223	14.756	-0.635	-0.233
0.0916	-0.371	-0.223	14.756	-0.632	-0.233
0.1000	-0.368	-0.223	14.756	-0.629	-0.233
0.1083	-0.368	-0.223	14.756	-0.625	-0.233
0.1 166	-0.368	-0.223	14.756	-0.622	-0.233
0.1250	-0.368	-0.223	14.756	-0.616	-0.233
0.1333	-0.365	-0.223	14.756	-0.613	-0.233
0.1416	-0.365	-0.220	14.756	-0.610	-0.233
0.1500	-0.365	-0.223	14.756	-0.603	-0.233

0.1583	-0.365	-0.223	14.756	-0.600	-0.233
0.1666	-0.362	-0.223	14.756	-0.597	-0.233
0.1750	-0.362	-0.223	14.756	-0.594	-0.233
0.1833	-0.362	-0.223	14.756	-0.588	-0.233
0.1916	-0.359	-0.220	14.756	-0.584	-0.233
0.2000	-0.359	-0.220	14.756	-0.581	-0.233
0.2083	-0.356	-0.223	14.756	-0.575	-0.233
0.2166	-0.356	-0.220	14.756	-0.572	-0.233
0.2250	-0.356	-0.220	14.756	-0.569	-0.233
0.2333	-0.356	-0.220	14.756	-0.562	-0.233
0.2416	-0.352	-0.220	14.756	-0.559	-0.233
0.2500	-0.349	-0.220	14.756	-0.556	-0.233
0.2583	-0.349	-0.220	14.756	-0.550	-0.230
0.2666	-0.349	-0.220	14.756	-0.546	-0.233
0.2750	-0.346	-0.220	14.756	-0.543	-0.233
0.2833	-0.349	-0.220	14.756	-0.540	-0.230
0.2916	-0.346	-0.220	14.756	-0.534	-0.230
0.3000	-0.343	-0.220	14.756	-0.531	-0.230
0.3083	-0.343	-0.220	14.756	-0.527	-0.233
0.3166	-0.343	-0.220	14.756	-0.524	-0.230
0.3250	-0.340	-0.220	14.756	-0.518	-0.230
0.3333	-0.340	-0.220	14.756	-0.515	-0.230
0.3500	-0.337	-0.220	14.756	-0.509	-0.230
0.3666	-0.333	-0.220	14.756	-0.499	-0.230
0.3833	-0.333	-0.217	14.756	-0.493	-0.230
0.4000	-0.330	-0.217	14.756	-0.486	-0.230
0.4166	-0.327	-0.217	14.756	-0.480	-0.227
0.4333	-0.324	-0.217	14.756	-0.471	-0.227
0.4500	-0.321	-0.217	14.756	-0.464	-0.227
0.4666	-0.321	-0.217	14.756	-0.458	-0.227
0.4833	-0.318	-0.214	14.756	-0.452	-0.227
0.5000	-0.315	-0.214	14.756	-0.445	-0.227
0.5166	-0.315	-0.214	14.756	-0.439	-0.224
0.5333	-0.311	-0.214	14.756	-0.433	-0.224
0.5500	-0.308	-0.214	14.756	-0.426	-0.224
0.5666	-0.305	-0.214	14.756	-0.423	-0.224
0.5833	-0.302	-0.214	14.756	-0.417	-0.224
0.6000	-0.302	-0.211	14.756	-0.411	-0.224
0.6166	-0.299	-0.211	14.756	-0.404	-0.224
0.6333	-0.296	-0.211	14.756	-0.401	-0.220
0.6500	-0.296	-0.211	14.756	-0.398	-0.220
0.6666	-0.293	-0.208	14.756	-0.392	-0.220
0.6833	-0.289	-0.211	14.756	-0.385	-0.220
0.7000	-0.289	-0.208	14.756	-0.379	-0.217
0.7166	-0.286	-0.208	14.756	-0.376	-0.217

0.7333	-0.286	-0.208	4.756	-0.373	-0.2 17
0.7500	-0.283	-0.208	4.756	-0.366	-0.217
0.7666	-0.280	-0.204	4.756	-0.363	-0.217
0.7833	-0.280	-0.204	4.756	-0.360	-0.217
0.8000	-0.277	-0.204	4.756	-0.354	-0.2 14
0.8 166	-0.277	-0.204	14.756	-0.350	-0.2 14
0.8333	-0.274	-0.204	14.756	-0.347	-0.214
0.8500	-0.270	-0.204	14.756	-0.344	-0.214
0.8666	-0.270	-0.204	14.756	-0.341	-0.214
0.8833	-0.267	-0.204	14.756	-0.338	-0.214
0.9000	-0.267	-0.201	14.756	-0.335	-0.214
0.9 166	-0.264	-0.201	14.756	-0.33 1	-0.21 1
0.9333	-0.264	-0.201	14.756	-0.328	-0.21 1
0.9500	-0.26 1	-0.201	14.756	-0.325	-0.21 1
0.9666	-0.26 1	-0.201	14.756	-0.322	-0.2 11
0.9833	-0.258	-0.20 1	14.756	-0.3 19	-0.21 1
1.0000	-0.258	-0.198	14.756	-0.3 16	-0.21 1
1.2000	-0.239	-0.192	14.756	-0.28 1	-0.202
1.4000	-0.226	-0.185	14.756	-0.259	-0.198
1.6000	-0.2 17	-0.182	14.756	-0.243	-0.192
1.8000	-0.207	-0.179	14.756	-0.227	-0.192
2.0000	-0.201	-0.176	14.756	-0.2 18	-0.186
2.2000	-0.195	-0.176	14.756	-0.208	-0.183
2.4000	-0.192	-0.173	14.756	-0.202	-0.179
2.6000	-0.185	-0.170	14.756	-0.196	-0.176
2.8000	-0.182	-0.167	14.756	-0.189	-0.176
3.0000	-0.179	-0.167	14.756	-0.186	-0.173
3.2000	-0.176	-0.163	14.756	-0.183	-0.173
3.4000	-0.176	-0.163	14.756	-0.180	-0.170
3.6000	-0.173	-0.160	14.756	-0.177	-0.170
3.8000	-0.170	-0.160	14.756	-0.173	-0.167
4.0000	-0.170	-0.160	14.756	-0.170	-0.167
4.2000	-0.166	-0.157	14.756	-0.170	-0.164
4.4000	-0.163	-0.157	14.756	-0.167	-0.164
4.6000	-0.163	-0.157	14.756	-0.167	-0.164
4.8000	-0.163	-0.154	14.756	-0.164	-0.164
5.0000	-0.160	-0.154	14.756	-0.164	-0.160
5.2000	-0.160	-0.154	14.756	-0.161	-0.160
5.4000	-0.160	-0.154	14.756	-0.161	-0.160
5.6000	-0.160	-0.154	14.756	-0.161	-0.160
5.8000	-0.160	-0.154	14.756	-0.161	-0.160
6.0000	-0.157	-0.154	14.756	-0.158	-0.157
6.2000	-0.157	-0.154	14.756	-0.158	-0.157
6.4000	-0.157	-0.151	14.756	-0.158	-0.157
6.6000	-0.154	-0.151	14.756	-0.158	-0.157

6.8000	-0.154	-0.151	14.756	-0.154	-0.157
7.0000	-0.154	-0.151	14.756	-0.154	-0.157
7.2000	-0.154	-0.148	14.756	-0.154	-0.157
7.4000	-0.151	-0.151	14.756	-0.154	-0.154
7.6000	-0.154	-0.151	14.756	-0.154	-0.154
7.8000	-0.154	-0.151	14.756	-0.151	-0.154
8.0000	-0.151	-0.148	14.756	-0.151	-0.154
8.2000	-0.151	-0.148	14.756	-0.151	-0.154
8.4000	-0.151	-0.148	14.756	-0.151	-0.154
8.6000	-0.151	-0.148	14.756	-0.151	-0.154
8.8000	-0.151	-0.148	14.756	-0.148	-0.154
9.0000	-0.151	-0.148	14.757	-0.148	-0.151
9.2000	-0.151	-0.148	14.756	-0.148	-0.151
9.4000	-0.148	-0.144	14.756	-0.148	-0.151
9.6000	-0.148	-0.144	14.756	-0.148	-0.151
9.8000	-0.148	-0.144	14.756	-0.145	-0.151
10.0000	-0.148	-0.144	14.756	-0.145	-0.151
12.0000	-0.141	-0.141	14.757	-0.132	-0.148
14.0000	-0.138	-0.138	14.757	-0.142	-0.145
16.0000	-0.138	-0.135	14.757	-0.139	-0.145
18.0000	-0.138	-0.138	14.757	-0.139	-0.142
20.0000	-0.135	-0.135	14.758	-0.135	-0.142
22.0000	-0.135	-0.135	14.759	-0.135	-0.138
24.0000	-0.132	-0.132	14.758	-0.132	-0.138
26.0000	-0.132	-0.132	14.759	-0.132	-0.138
28.0000	-0.132	-0.132	14.758	-0.132	-0.135
30.0000	-0.132	-0.132	14.758	-0.132	-0.135
32.0000	-0.129	-0.129	14.757	-0.129	-0.135
34.0000	-0.129	-0.132	14.758	-0.132	-0.135
36.0000	-0.132	-0.132	14.759	-0.132	-0.135
38.0000	-0.132	-0.129	14.761	-0.132	-0.135
40.0000	-0.132	-0.129	14.762	-0.132	-0.135
42.0000	-0.132	-0.132	14.762	-0.132	-0.135
44.0000	-0.132	-0.132	14.764	-0.132	-0.135
46.0000	-0.132	-0.132	14.764	-0.132	-0.135
48.0000	-0.132	-0.132	14.762	-0.129	-0.132
50.0000	-0.132	-0.129	14.764	-0.129	-0.132
52.0000	-0.132	-0.132	14.764	-0.132	-0.135
54.0000	-0.132	-0.129	14.766	-0.129	-0.135
56.0000	-0.132	-0.129	14.766	-0.132	-0.135
58.0000	-0.132	-0.129	14.766	-0.129	-0.135
60.0000	-0.119	-0.129	14.766	-0.129	-0.132
62.0000	-0.129	-0.129	14.766	-0.129	-0.135
64.0000	-0.132	-0.126	14.765	-0.129	-0.132
66.0000	-0.132	-0.126	14.765	-0.129	-0.132

68.0000	-0.132	-0.126	14.766	-0.132	-0.132
70.0000	-0.132	-0.126	14.767	-0.132	-0.135
72.0000	-0.132	-0.126	14.767	-0.129	-0.135
74.0000	-0.129	-0.122	14.768	-0.129	-0.132
76.0000	-0.129	-0.122	14.768	-0.129	-0.135
78.0000	-0.129	-0.126	14.769	-0.132	-0.135
80.0000	-0.129	-0.122	14.769	-0.132	-0.135
82.0000	-0.126	-0.122	14.768	-0.129	-0.132
84.0000	-0.129	-0.122	14.768	-0.129	-0.135
86.0000	-0.126	-0.122	14.767	-0.129	-0.135
88.0000	-0.129	-0.126	14.767	-0.129	-0.135
90.0000	-0.129	-0.122	14.766	-0.129	-0.135
92.0000	-0.129	-0.122	14.765	-0.129	-0.132
94.0000	-0.129	-0.122	14.765	-0.129	-0.132
96.0000	-0.129	-0.122	14.764	-0.129	-0.132
98.0000	-0.129	-0.122	14.764	-0.129	-0.135
100.000	-0.129	-0.126	4.765	-0.129	-0.135
120.000	-0.132	-0.126	4.765	-0.132	-0.135
140.000	-0.132	-0.129	4.761	-0.132	-0.138
160.000	-0.135	-0.129	4.761	-0.135	-0.142
180.000	-0.135	-0.132	4.754	-0.135	-0.142
200.000	-0.138	-0.132	4.751	-0.139	-0.145
220.000	-0.138	-0.135	14.748	-0.139	-0.145
240.000	-0.141	-0.135	14.744	-0.142	-0.148
260.000	-0.141	-0.135	14.740	-0.142	-0.148
280.000	-0.141	-0.138	14.740	-0.145	-0.151
300.000	-0.144	-0.141	14.744	-0.145	-0.151
320.000	-0.144	-0.144	14.743	-0.145	-0.151
340.000	-0.148	-0.144	14.743	-0.145	-0.154
360.000	-0.144	-0.141	14.742	-0.145	-0.151
380.000	-0.141	-0.141	14.740	-0.142	-0.148
400.000	-0.138	-0.135	14.740	-0.139	-0.148
420.000	-0.132	-0.132	14.739	-0.135	-0.142
440.000	-0.132	-0.129	14.746	-0.132	-0.138
460.000	-0.126	-0.126	14.746	-0.126	-0.135
480.000	-0.122	-0.119	14.749	-0.123	-0.129
500.000	-0.116	-0.113	14.749	-0.116	-0.123
520.000	-0.107	-0.107	14.749	-0.107	-0.113
540.000	-0.103	-0.100	14.758	-0.101	-0.110
560.000	-0.094	-0.094	14.760	-0.091	-0.101
580.000	-0.088	-0.085	14.764	-0.085	-0.094
600.000	-0.078	-0.078	14.766	-0.075	-0.085
620.000	-0.072	-0.072	14.770	-0.072	-0.078
640.000	-0.069	-0.066	14.772	-0.066	-0.072
660.000	-0.063	-0.059	14.777	-0.060	-0.066

680.000	-0.056	-0.056	14.781	-0.056	-0.059
700.000	-0.053	-0.050	14.782	-0.050	-0.056
720.000	-0.053	-0.050	14.789	-0.050	-0.053
740.000	-0.050	-0.047	14.790	-0.047	-0.050
760.000	-0.050	-0.047	14.796	-0.047	-0.050
780.000	-0.053	-0.050	14.793	-0.050	-0.050
800.000	-0.053	-0.050	14.786	-0.050	-0.050
820.000	-0.056	-0.053	14.786	-0.053	-0.053
840.000	-0.063	-0.059	14.787	-0.060	-0.059
860.000	-0.069	-0.069	14.788	-0.069	-0.066
880.000	-0.075	-0.072	14.787	-0.072	-0.072
900.000	-0.081	-0.078	14.790	-0.079	-0.078
920.000	-0.085	-0.081	14.791	-0.082	-0.082
940.000	-0.088	-0.085	14.791	-0.085	-0.085
960.000	-0.091	-0.088	14.791	-0.088	-0.088
980.000	-0.094	-0.094	14.792	-0.094	-0.094
1000.00	-0.103	-0.100	14.790	-0.101	-0.101
1060.00	-0.122	-0.119	14.792	-0.123	-0.123
1120.00	-0.132	-0.126	14.801	-0.132	-0.129
1180.00	-0.126	-0.119	14.782	-0.126	-0.123
1240.00	-0.132	-0.122	14.777	-0.132	-0.129
1300.00	-0.132	-0.126	14.793	-0.132	-0.132
1360.00	-0.122	-0.116	14.799	-0.123	-0.116
1420.00	-0.122	-0.116	14.797	-0.123	-0.119

INTERMEDIATE ZONE CONSTANT RATE TEST

Input 1: G11
Input 2: 012
Input 3: Barometric

Setups:	INPUT 1	INPUT 2	INPUT 3
Type	Level (F)	Level (F)	Function
Mode	Surface	Surface	
I.D.	054002		
Reference	0.000	0.000	
PSI at Ref.	8.351	8.194	
SG	1.000	1.000	
Linearity	0.012	0.002	0.045
Scale factor	9.971	9.992	7.981
Offset	-0.002	-0.010	8.018
Delay mSEC	50.000	50.000	50.000

Step 0 12/11 07:28:22

Elapsed Time	INPUT 1	INPUT 2	INPUT 3
0.0000	0.000	0.000	14.802
0.0083	-0.050	0.000	14.802
0.0166	-0.066	0.000	14.802
0.0250	-0.056	0.000	14.802
0.0333	-0.094	0.000	14.802
0.0416	-0.138	-0.003	14.802
0.0500	-0.179	-0.003	14.802
0.0583	-0.220	-0.003	14.802
0.0666	-0.261	-0.003	14.802
0.0750	-0.302	-0.003	14.802
0.0833	-0.343	-0.006	14.802
0.0916	-0.387	-0.006	14.802
0.1000	-0.425	-0.006	14.802
0.1083	-0.466	-0.009	4.802
0.1166	-0.504	-0.012	4.802
0.1250	-0.538	-0.012	4.802
0.1333	-0.573	-0.015	4.802
0.1416	-0.604	-0.018	4.802
0.1500	-0.633	-0.018	4.802
0.1583	-0.661	-0.022	4.802

0.1666	-0.689	-0.025	14.802
0.1750	-0.715	-0.028	14.802
0.1833	-0.743	-0.03 1	14.801
0.1916	-0.768	-0.03 1	14.802
0.2000	-0.790	-0.034	14.802
0.2083	-0.815	-0.037	14.802
0.2 166	-0.838	-0.040	14.802
0.2250	-0.856	-0.044	14.802
0.2333	-0.878'	-0.047	14.802
0.24 16	-0.897	-0.050	14.802
0.2500	-0.91 9	-0.053	14.802
0.2583	-0.935	-0.056	14.802
0.2666	-0.954	-0.056	14.802
0.2750	-0.970	-0.059	14.802
0.2833	-0.986	-0.063	14.802
0.29 16	-1.005	-0.066	14.801
0.3000	-1.020	-0.069	14.802
0.3083	-1.033	-0.072	14.802
0.3 166	-1.045	-0.075	14.802
0.3250	-1.061	-0.075	14.802
0.3333	-1.074	-0.078	14.802
0.3500	-1.099	-0.085	14.802
0.3666	-1.124	-0.09 1	14.802
0.3833	-1.143	-0.094	14.802
0.4000	-1.165	-0.100	14.802
0.4 166	-1.184	-0.104	14.802
0.4333	-1.200	-0.1 10	14.802
0.4500	-1.216	-0.113	14.802
0.4666	-1.23 1	-0.1 19	14.802
0.4833	-1.247	-0.122	14.802
0.5000	-1.260	-0.126	14.802
0.5 166	-1.272	-0.129	14.802
0.5333	-1.282	-0.135	14.802
0.5500	-1.294	-0.138	14.802
0.5666	-1.304	-0.141	14.802
0.5833	-1.313	-0.144	14.802
0.6000	-1.320	-0.151	14.802
0.6 166	-1.332	-0.154	14.802
0.6333	-1.338	-0.154	14.802
0.6500	-1.348	-0.160	14.802
0.6666	-1.354	-0.160	14.802
0.6833	-1.364	-0.163	14.802
0.7000	-1.370	-0.167	14.802
0.7166	-1.376	-0.170	14.802
0.7333	-1.383	-0.173	14.802

0.7500	-1.389	-0.176	14.802
0.7666	-1.395	-0.179	14.802
0.7833	-1.401	-0.182	14.802
0.8000	-1.408	-0.185	14.802
0.8166	-1.414	-0.185	14.802
0.8333	-1.417	-0.189	4.802
0.8500	-1.423	-0.192	4.802
0.8666	-1.430	-0.195	4.802
0.8833	-1.433	-0.198	4.802
0.9000	-1.439	-0.198	4.802
0.9166	-1.442	-0.201	4.802
0.9333	-1.449	-0.204	4.802
0.9500	-1.452	-0.204	4.802
0.9666	-1.458	-0.208	4.802
0.9833	-1.461	-0.211	4.802
1.0000	-1.464	-0.211	4.802
1.2000	-1.505	-0.233	4.802
1.4000	-1.540	-0.252	14.802
1.6000	-1.565	-0.264	14.802
1.8000	-1.584	-0.277	14.802
2.0000	-1.603	-0.286	14.802
2.2000	-1.616	-0.296	14.802
2.4000	-1.631	-0.302	14.802
2.6000	-1.641	-0.308	14.802
2.8000	-1.650	-0.315	14.803
3.0000	-1.660	-0.321	14.803
3.2000	-1.666	-0.324	14.803
3.4000	-1.672	-0.330	14.803
3.6000	-1.682	-0.334	14.803
3.8000	-1.685	-0.337	14.803
4.0000	-1.691	-0.340	14.803
4.2000	-1.698	-0.343	14.803
4.4000	-1.701	-0.346	14.803
4.6000	-1.704	-0.349	14.802
4.8000	-1.707	-0.353	14.803
5.0000	-1.707	-0.356	4.803
5.2000	-1.710	-0.359	4.803
5.4000	-1.710	-0.359	4.803
5.6000	-1.713	-0.362	4.803
5.8000	-1.716	-0.362	4.803
6.0000	-1.720	-0.365	4.803
6.2000	-1.720	-0.365	14.803
6.4000	-1.723	-0.368	14.803
6.6000	-1.726	-0.371	14.803
6.8000	-1.726	-0.375	14.803

7.0000	-1.729	-0.375	14.803
7.2000	-1.732	-0.378	14.803
7.4000	-1.735	-0.378	14.803
7.6000	-1.735	-0.381	14.803
7.8000	-1.738	-0.381	14.803
8.0000	-1.738	-0.384	14.803
8.2000	-1.742	-0.384	14.803
8.4000	-1.738	-0.384	14.803
8.6000	-1.742	-0.387	14.803
8.8000	-1.742	-0.387	14.803
9.0000	-1.742	-0.390	14.803
9.2000	-1.745	-0.390	14.803
9.4000	-1.748	-0.390	14.803
9.6000	-1.748	-0.394	14.803
9.8000	-1.748	-0.394	14.803
10.0000	-1.751	-0.394	14.803
12.0000	-1.761	-0.403	14.804
14.0000	-1.770	-0.412	14.803
16.0000	-1.779	-0.422	14.803
18.0000	-1.786	-0.428	14.803
20.0000	-1.795	-0.438	14.802
22.0000	-1.801	-0.444	14.801
24.0000	-1.805	-0.447	14.802
26.0000	-1.814	-0.453	14.803
28.0000	-1.820	-0.463	14.802
30.0000	-1.824	-0.466	14.803
32.0000	-1.827	-0.469	14.804
34.0000	-1.833	-0.475	14.803
36.0000	-1.836	-0.479	14.804
38.0000	-1.842	-0.482	14.805
40.0000	-1.846	-0.485	14.807
42.0000	-1.849	-0.488	14.807
44.0000	-1.855	-0.494	14.807
46.0000	-1.858	-0.498	14.807
48.0000	-1.858	-0.498	14.808
50.0000	-1.861	-0.501	14.808
52.0000	-1.864	-0.501	14.809
54.0000	-1.868	-0.507	14.808
56.0000	-1.871	-0.510	14.808
58.0000	-1.874	-0.510	14.807
60.0000	-1.877	-0.513	14.807
62.0000	-1.871	-0.513	14.808
64.0000	-1.880	-0.516	14.807
66.0000	-1.877	-0.513	14.805
68.0000	-1.880	-0.520	14.805

70.0000	-1.883	-0.523	14.807
72.0000	-1.883	-0.520	14.805
74.0000	-1.883	-0.520	14.805
76.0000	-1.887	-0.523	14.805
78.0000	-1.890	-0.529	14.807
80.0000	-1.890	-0.529	14.807
82.0000	-1.887	-0.526	14.807
84.0000	-1.890	-0.529	14.808
86.0000	-1.890	-0.532	14.809
88.0000	-1.896	-0.535	14.810
90.0000	-1.890	-0.535	14.811
92.0000	-1.890	-0.535	14.811
94.0000	-1.893	-0.535	14.811
96.0000	-1.893	-0.539	14.812
98.0000	-1.896	-0.542	14.812
100.000	-1.899	-0.545	14.813
120.000	-1.909	-0.557	14.814
140.000	-1.918	-0.570	14.815
160.000	-1.924	-0.579	14.814
180.000	-1.940	-0.592	14.812
200.000	-1.943	-0.598	14.812
220.000	-1.943	-0.598	14.808
240.000	-1.959	-0.614	14.804
260.000	-1.968	-0.630	14.799
280.000	-1.975	-0.639	14.797
300.000	-1.978	-0.639	14.793
320.000	-1.978	-0.639	14.789
340.000	-1.987	-0.655	14.785
360.000	-1.990	-0.658	14.780
380.000	-1.997	-0.668	14.779
400.000	-2.003	-0.674	14.779
420.000	-2.006	-0.677	14.776
440.000	-2.013	-0.684	14.776
460.000	-2.019	-0.693	14.776
480.000	-2.019	**-0.696**	14.777
500.000	-2.028	-0.702	14.775
520.000	-2.028	-0.706	14.772
540.000	-2.038	-0.712	14.771
560.000	-2.047	-0.715	14.772
580.000	-2.047	-0.718	14.771
600.000	-2.050	-0.721	14.773
620.000	-2.044	-0.718	14.773
640.000	-2.044	-0.715	14.777
660.000	-2.028	-0.706	14.777
680.000	-2.019	-0.696	14.776

700.000	-2.006	-0.684	4.775
720.000	-1.990	-0.668	4.777
740.000	-1.972	-0.652	4.777
760.000	-1.959	-0.639	4.778
780.000	-1.950	-0.627	4.780
800.000	-1.937	-0.611	4.781
820.000	-1.918	-0.595	4.781
840.000	-1.902	-0.579	4.781
860.000	-1.877	-0.564	4.779
880.000	-1.864	-0.551	4.779
900.000	-1.852	-0.539	4.779
920.000	-1.839	-0.526	4.779
940.000	-1.830	-0.513	14.780
960.000	-1.817	-0.504	14.779
980.000	-1.805	-0.491	14.778
1000.00	-1.798	-0.485	14.776
1060.00	-1.786	-0.472	14.773
1120.00	-1.801	-0.482	14.776
1180.00	-1.836	-0.516	14.773
1240.00	-1.890	-0.567	14.770
1300.00	-1.940	-0.617	14.775
1360.00	-1.987	-0.665	14.778
1420.00	-2.009	-0.693	14.783
1480.00	-2.035	-0.715	14.797

INTERMEDIATE ZONE RECOVERY TEST

Input 1: 011
Input 2: 012
Input 3: Barometric

Setups:	N U T 1	INPUT 2	NUT 3
Type	Level (F)	Level (F)	Function
Mode	Surface	Surface	
I.D.	054002		
Reference	0.000	0.000	
PSI at Ref.	8.351	8.194	
SG	1.000	1.000	
Linearity	0.012	0.002	0.045
Scale factor	9.971	9.992	7.981
Offset	-0.002	-0.010	8.018
Delay mSEC	50.000	50.000	50.000

Step 1 12/12 08:54:49

Elapsed Time	INPUT 1	INPUT 2	INPUT 3
0.0000	-2.047	-0.73 1	14.799
0.0083	-2.03 1	-0.73 1	14.799
0.01 66	-2.035	-0.73 1	14.800
0.0250	-2.0 16	-0.73 1	14.799
0.0333	-2.000	-0.73 1	14.799
0.04 16	-1.978	-0.73 1	14.799
0.0500	-1.953	-0.73 1	14.799
0.0583	-1.924	-0.73 1	14.799
0.0666	-1.896	-0.728	14.799
0.0750	-1.864	-0.728	14.799
0.0833	-1.833	-0.728	14.799
0.0916	-1.801	-0.728	14.799
0.1000	-1.770	-0.728	14.799
0.1083	-1.742	-0.724	14.799
0.1 166	-1.713	-0.724	14.799
0.1250	-1.682	-0.724	14.799
0.1333	-1.653	-0.721	14.799
0.1416	-1.625	-0.72 1	14.799
0.1500	-1.600	-0.7 18	14.799
0.1583	-1.572	-0.715	14.799
0.1666	-1.546	-0.715	14.799

0.1750	-1.518	-0.715	14.799
0.1833	-1.493	-0.712	14.799
0.1916	-1.468	-0.709	14.799
0.2000	-1.446	-0.709	14.799
0.2083	-1.420	-0.706	14.799
0.2166	-1.398	-0.702	14.799
0.2250	-1.373	-0.699	14.799
0.2333	-1.351	-0.699	14.799
0.2416	-1.332	-0.696	14.799
0.2500	-1.310	-0.693	14.799
0.2583	-1.288	-0.690	14.799
0.2666	-1.269	-0.690	14.799
0.2750	-1.250	-0.687	14.799
0.2833	-1.231	-0.684	14.799
0.2916	-1.216	-0.680	14.799
0.3000	-1.197	-0.680	14.799
0.3083	-1.178	-0.677	14.799
0.3166	-1.162	-0.674	14.799
0.3250	-1.146	-0.671	14.799
0.3333	-1.131	-0.668	14.799
0.3500	-1.099	-0.665	14.799
0.3666	-1.071	-0.658	14.799
0.3833	-1.045	-0.655	14.799
0.4000	-1.020	-0.649	14.799
0.4166	-0.998	-0.646	14.799
0.4333	-0.976	-0.643	14.799
0.4500	-0.954	-0.636	14.799
0.4666	-0.935	-0.630	14.799
0.4833	-0.916	-0.627	14.799
0.5000	-0.897	-0.624	14.799
0.5166	-0.882	-0.620	14.799
0.5333	-0.866	-0.614	14.799
0.5500	-0.850	-0.611	14.799
0.5666	-0.838	-0.608	14.799
0.5833	-0.825	-0.605	14.799
0.6000	-0.812	-0.602	14.799
0.6166	-0.800	-0.595	14.799
0.6333	-0.787	-0.592	14.799
0.6500	-0.778	-0.589	14.799
0.6666	-0.765	-0.586	14.799
0.6833	-0.756	-0.583	14.799
0.7000	-0.746	-0.579	14.799
0.7166	-0.740	-0.576	14.799
0.7333	-0.730	-0.573	14.799
0.7500	-0.721	-0.570	14.799

0.7666	-0.715	-0.567	14.799
0.7833	-0.705	-0.564	14.799
0.8000	-0.699	-0.561	14.799
0.8166	-0.693	-0.561	14.799
0.8333	-0.686	-0.557	14.799
0.8500	-0.680	-0.554	14.799
0.8666	-0.674	-0.551	14.799
0.8833	-0.667	-0.548	14.799
0.9000	-0.661	-0.545	14.799
0.9166	-0.658	-0.545	14.799
0.9333	-0.652	-0.542	14.799
0.9500	-0.645	-0.539	14.799
0.9666	-0.642	**-0.535**	14.799
0.9833	-0.636	-0.535	14.799
1.0000	-0.633	-0.532	14.799
1.2000	-0.582	-0.507	14.799
1.4000	-0.548	-0.491	14.799
1.6000	-0.522	-0.472	14.799
1.8000	-0.500	-0.460	14.799
2.0000	-0.482	-0.450	14.799
2.2000	-0.466	-0.441	14.799
2.4000	-0.453	-0.431	14.799
2.6000	-0.437	-0.425	14.799
2.8000	-0.428	-0.419	14.799
3.0000	-0.419	-0.409	14.799
3.2000	-0.409	-0.403	14.799
3.4000	-0.406	-0.403	14.799
3.6000	-0.396	-0.397	14.799
3.8000	-0.390	-0.390	14.800
4.0000	-0.384	-0.387	14.799
4.2000	-0.378	-0.384	14.800
4.4000	-0.374	-0.381	14.800
4.6000	-0.368	-0.378	14.800
4.8000	-0.365	-0.375	14.800
5.0000	**-0.362**	-0.371	14.800
5.2000	**-0.356**	**-0.368**	14.800
5.4000	-0.352	-0.365	14.800
5.6000	-0.349	-0.362	14.800
5.8000	-0.343	-0.359	14.800
6.0000	-0.343	-0.359	14.800
6.2000	-0.340	-0.356	14.800
6.4000	-0.337	-0.353	14.800
6.6000	-0.333	-0.349	14.800
6.8000	-0.330	-0.349	14.800
7.0000	-0.327	**-0.346**	**14.800**

7.2000	-0.327	-0.346	14.800
7.4000	**-0.324**	**-0.343**	4.800
7.6000	**-0.321**	**-0.340**	4.800
7.8000	-0.318	-0.340	4.801
8.0000	-0.315	-0.337	4.800
8.2000	-0.315	-0.337	4.801
8.4000	-0.311	-0.334	4.801
8.6000	-0.308	-0.330	14.801
8.8000	-0.308	-0.330	14.801
9.0000	-0.305	-0.330	14.801
9.2000	-0.305	-0.327	14.801
9.4000	-0.302	-0.327	14.801
9.6000	-0.302	-0.327	14.801
9.8000	-0.302	-0.324	14.801
10.0000	-0.299	-0.321	14.801
12.0000	-0.283	-0.308	14.802
14.0000	-0.270	-0.299	14.802
16.0000	-0.261	-0.289	14.802
18.0000	-0.245	-0.277	14.802
20.0000	-0.245	-0.274	14.802
22.0000	-0.236	-0.267	14.802
24.0000	-0.229	-0.258	14.802
26.0000	-0.223	-0.255	14.802
28.0000	-0.220	-0.249	14.803
30.0000	-0.217	-0.245	14.803
32.0000	-0.214	-0.242	14.802
34.0000	-0.211	-0.239	14.802
36.0000	-0.204	-0.233	14.803
38.0000	-0.201	-0.230	14.803
40.0000	-0.198	-0.226	14.803
42.0000	-0.195	-0.223	14.803
44.0000	-0.192	-0.220	14.803
46.0000	-0.189	-0.217	14.803
48.0000	-0.185	-0.214	14.803
50.0000	-0.182	-0.211	14.803
52.0000	-0.182	-0.208	14.804
54.0000	-0.179	-0.204	14.803
56.0000	-0.176	-0.204	14.803
58.0000	-0.176	-0.201	14.803
60.0000	-0.173	-0.201	14.803
62.0000	-0.173	-0.198	14.803
64.0000	-0.170	-0.195	14.804
66.0000	-0.166	-0.192	14.804
68.0000	-0.163	-0.189	14.804
70.0000	-0.163	-0.189	14.804

72.0000	-0.163	-0.189	14.805
74.0000	-0.166	-0.192	14.805
76.0000	-0.157	-0.179	14.805
78.0000	-0.154	-0.176	14.805
80.0000	-0.154	-0.176	14.805
82.0000	-0.151	-0.173	14.805
84.0000	-0.154	-0.179	14.805
86.0000	-0.157	-0.176	14.805
88.0000	-0.154	-0.173	14.805
90.0000	-0.148	-0.170	14.807
92.0000	-0.148	-0.170	14.807
94.0000	-0.144	-0.167	14.805
96.0000	-0.144	-0.167	14.807
98.0000	-0.144	-0.167	14.807
100.000	-0.141	-0.160	14.807
120.000	-0.129	-0.148	14.805
140.000	-0.1 19	-0.138	14.801
160.000	-0.1 13	-0.129	14.798
180.000	-0.103	-0.1 16	14.792
200.000	-0.100	-0.1 13	14.786
220.000	-0.094	-0.1 10	14.781
240.000	-0.091	-0.104	14.778
260.000	-0.088	-0.100	14.773
280.000	-0.085	-0.094	14.769

ATTACHMENT 2

AQTESOLV INPUT FILES AND ANALYTICAL CURVE MATCHES

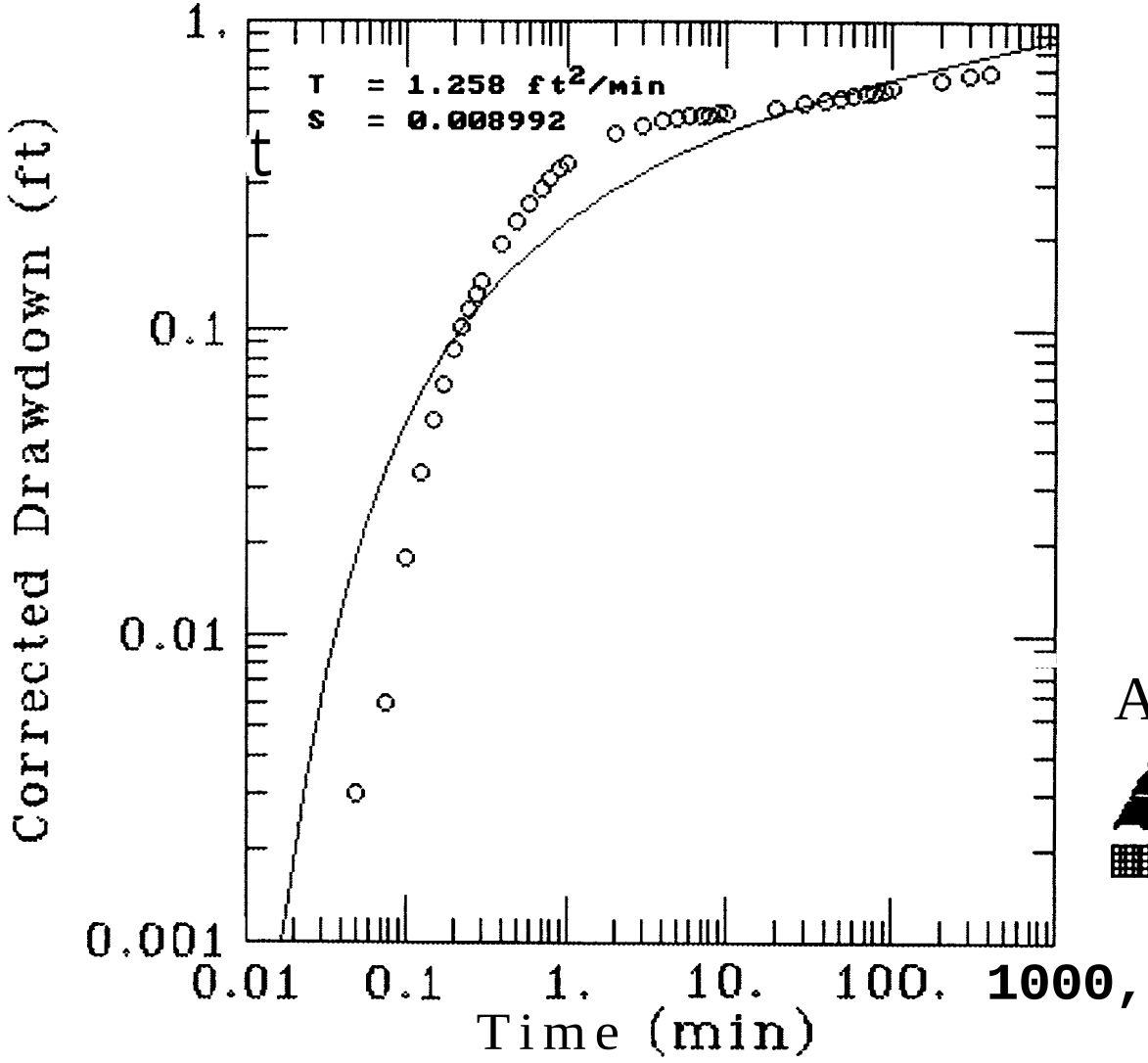
AQTESOLV INPUT FILE

Shallow Zone Test - OS1

```
wrate
 4
radius
5
sthick
14.02
tsdata
0.05   0.003   1
0.075   0.006   1
0.1   0.018   1
0.125   0.034   1
0.15   0.05   1
0.175   0.066   1
0.2   0.085   1
0.225   0.101   1
0.25   0.116   1
0.275   0.129   1
0.3   0.142   1
0.4   0.189   1
0.5   0.227   1
0.6   0.259   1
0.7   0.287   1
0.8   0.313   1
0.9   0.335   1
1   0.35   1
2   0.439   1
3   0.471   1
4   0.486   1
5   0.496   1
6   0.502   1
7   0.505   1
8   0.509   1
9   0.515   1
10   0.515   1
20   0.537   1
30   0.55   1
40   0.562   1
50   0.575   1
60   0.584   1
70   0.594   1
80   0.603   1
90   0.613   1
100   0.619   1
200   0.667   1
300   0.689   1
400   0.698   1
```

* NOTE: The first column denotes elapsed time, the second the head reading from zero, and the third is the assigned weight.

Shallow Zone Test – OS1

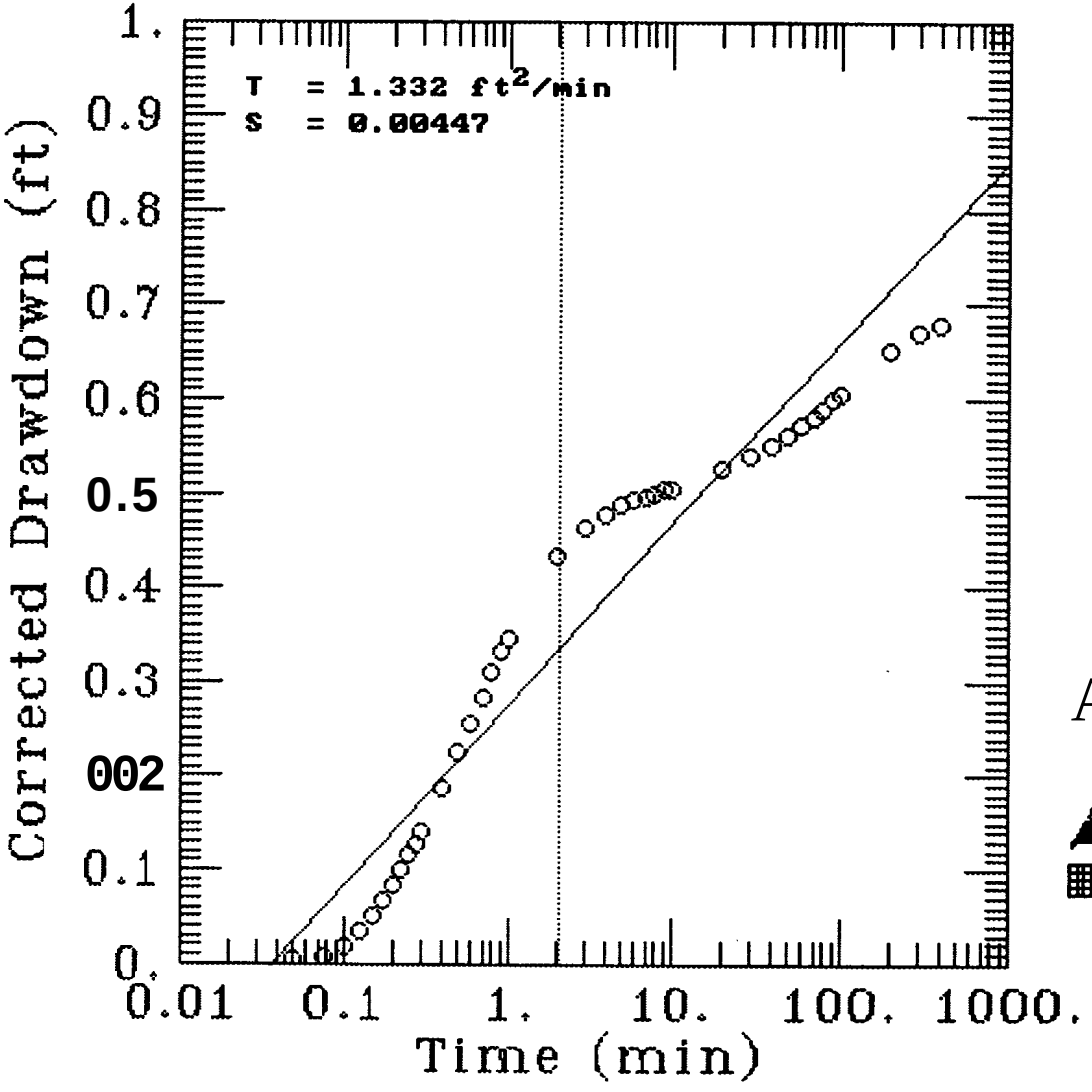


AQTESOLV

GERAGHTY & MILLER, INC.

Modeling Group

Shallow Zone Test - OS1



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Modeling Group

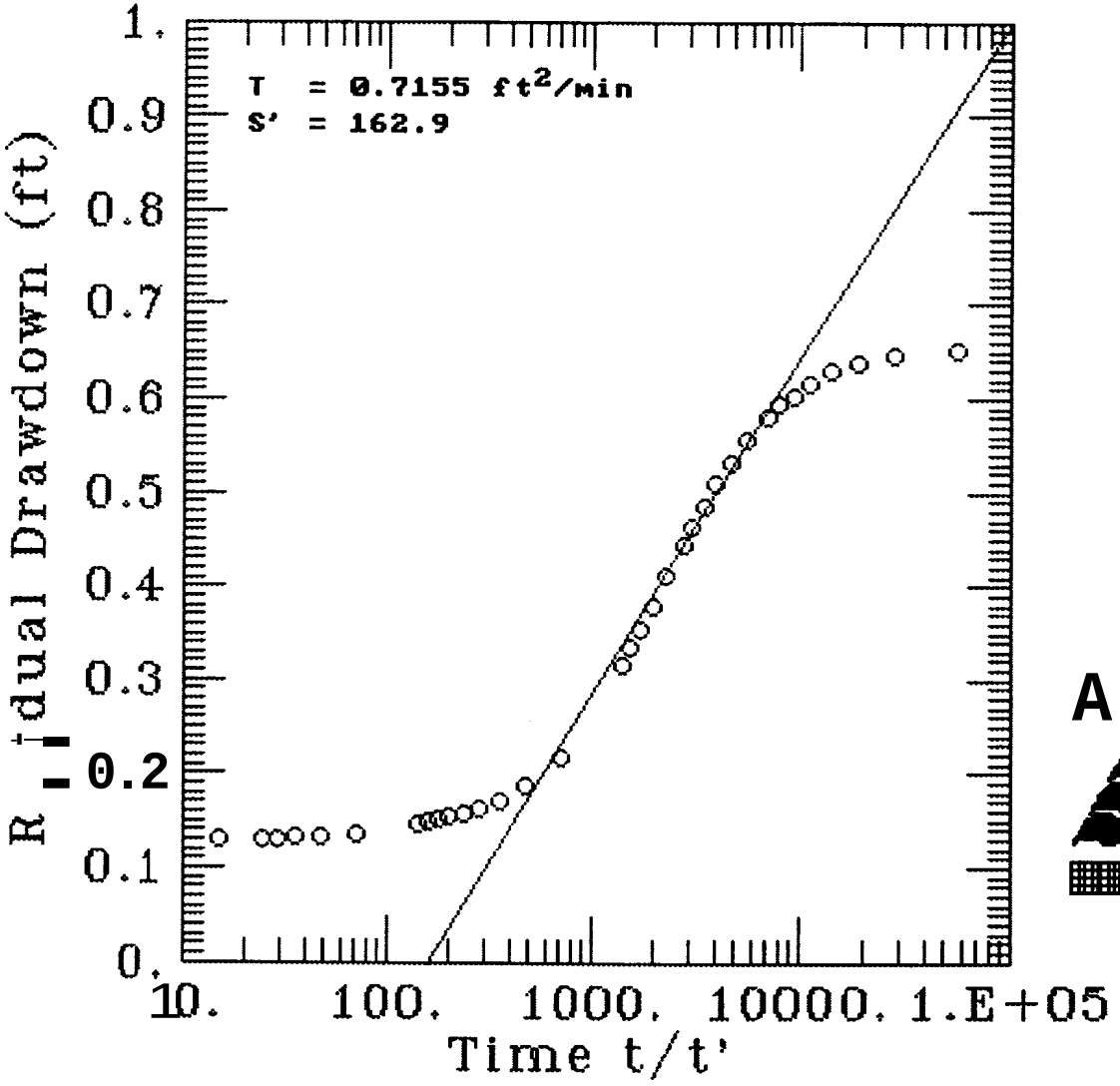
AQTESOLV INPUT FILE

Shallow Zone Recovery - **OS1**

```
wrate
 4
trecov
1420
tsdata
0.025   0.651   1
0.05   0.648   1
0.075   0.638   1
0.1   0.629   1
0.125   0.616   1
0.15   0.603   1
0.175   0.594   1
0.2   0.581   1
0.25   0.556   1
0.3   0.531   1
0.35   0.509   1
0.4   0.486   1
0.45   0.464   1
0.5   0.445   1
0.6   0.411   1
0.7   0.379   1
0.8   0.354   1
0.9   0.335   1
1   0.316   1
2   0.218   1
    0.186   1
    0.17   1
-   0.164   1
6   0.158   1
7   0.154   1
8   0.151   1
9   0.148   1
10   0.145   1
20   0.135   1
30   0.132   1
40   0.132   1
50   0.129   1
60   0.129   1
100   0.129   1
```

* NOTE: The first column denotes elapsed time, the second the head reading from zero, and the third is the assigned weight.

Shallow Zone Recovery - OS1



This Recovery

AQTESOLV

GERRGHTY & MILLER, INC.

Modelins Group

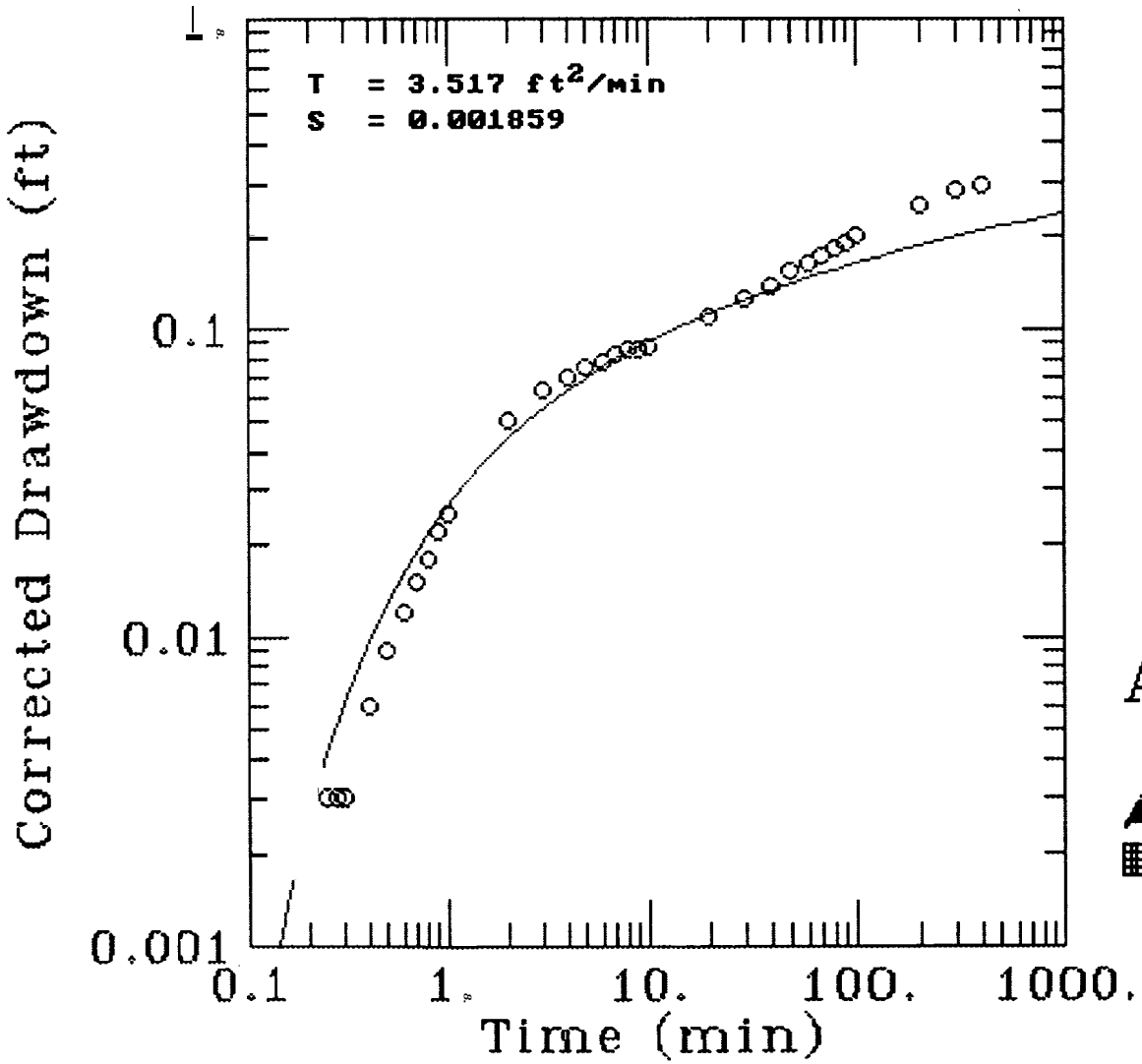
AQTESOLV INPUT FILE

Shallow Zone Test - OS2
rate
.4
radius
45
sthick
13.66
tsdata

0.25	0.003	1
0.275	0.003	1
0.3	0.003	1
0.4	0.006	1
0.5	0.009	1
0.6	0.012	1
0.7	0.015	1
0.8	0.018	1
0.9	0.022	1
1	0.025	1
2	0.05	1
3	0.063	1
4	0.069	1
5	0.075	1
6	0.078	1
7	0.082	1
8	0.085	1
9	0.085	1
0	0.088	1
	0.11	1
30	0.126	1
40	0.138	1
50	0.154	1
60	0.164	1
70	0.173	1
80	0.183	1
90	0.192	1
100	0.202	1
200	0.255	1
300	0.284	1
400	0.296	1

* NOTE: The first column denotes elapsed time, the second the head reading from zero, and the third is the assigned weight.

Shallow Zone Test – OS2



AQTESOLV

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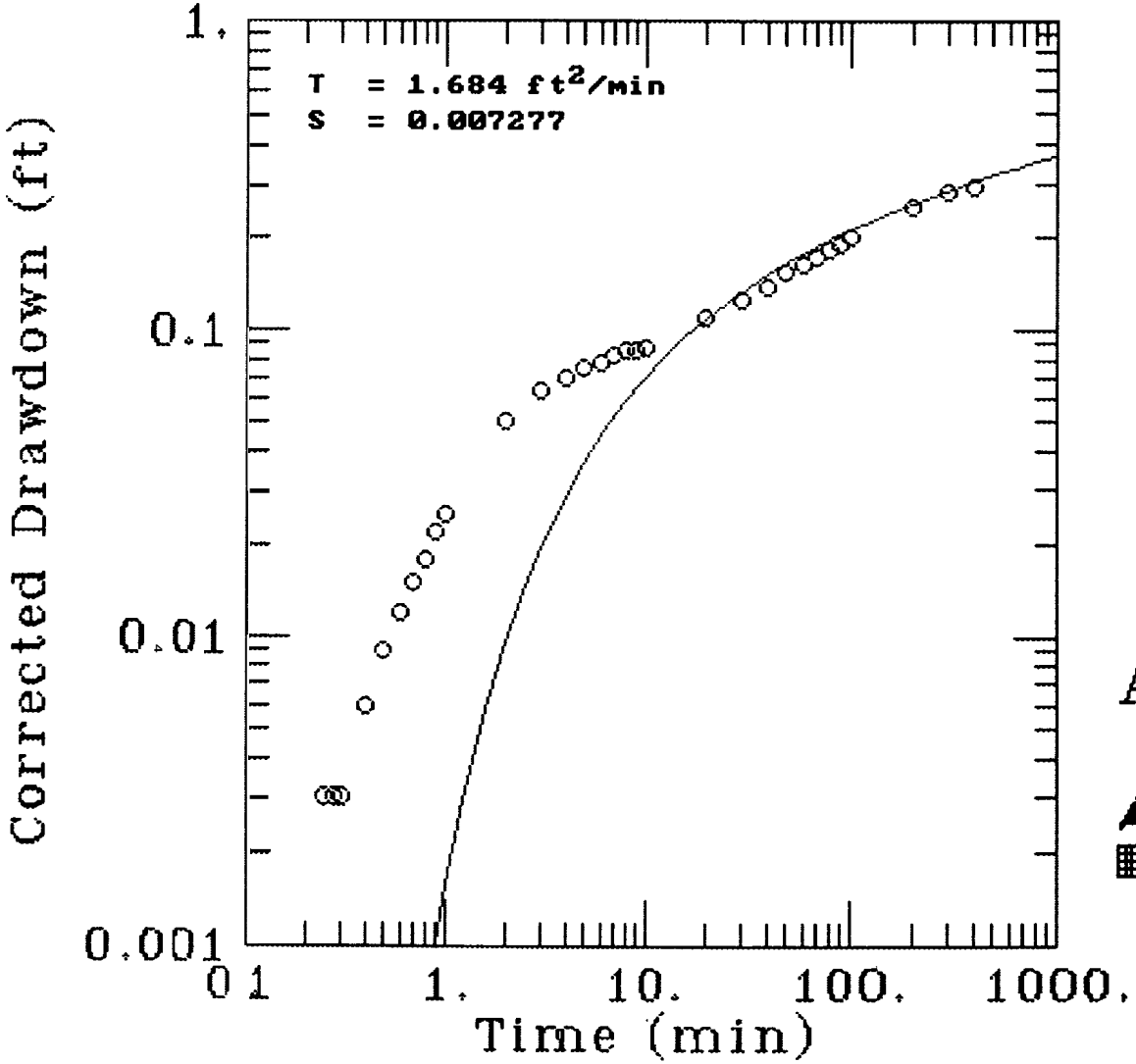
Modeling Group

Shallow Zone Test - OS2

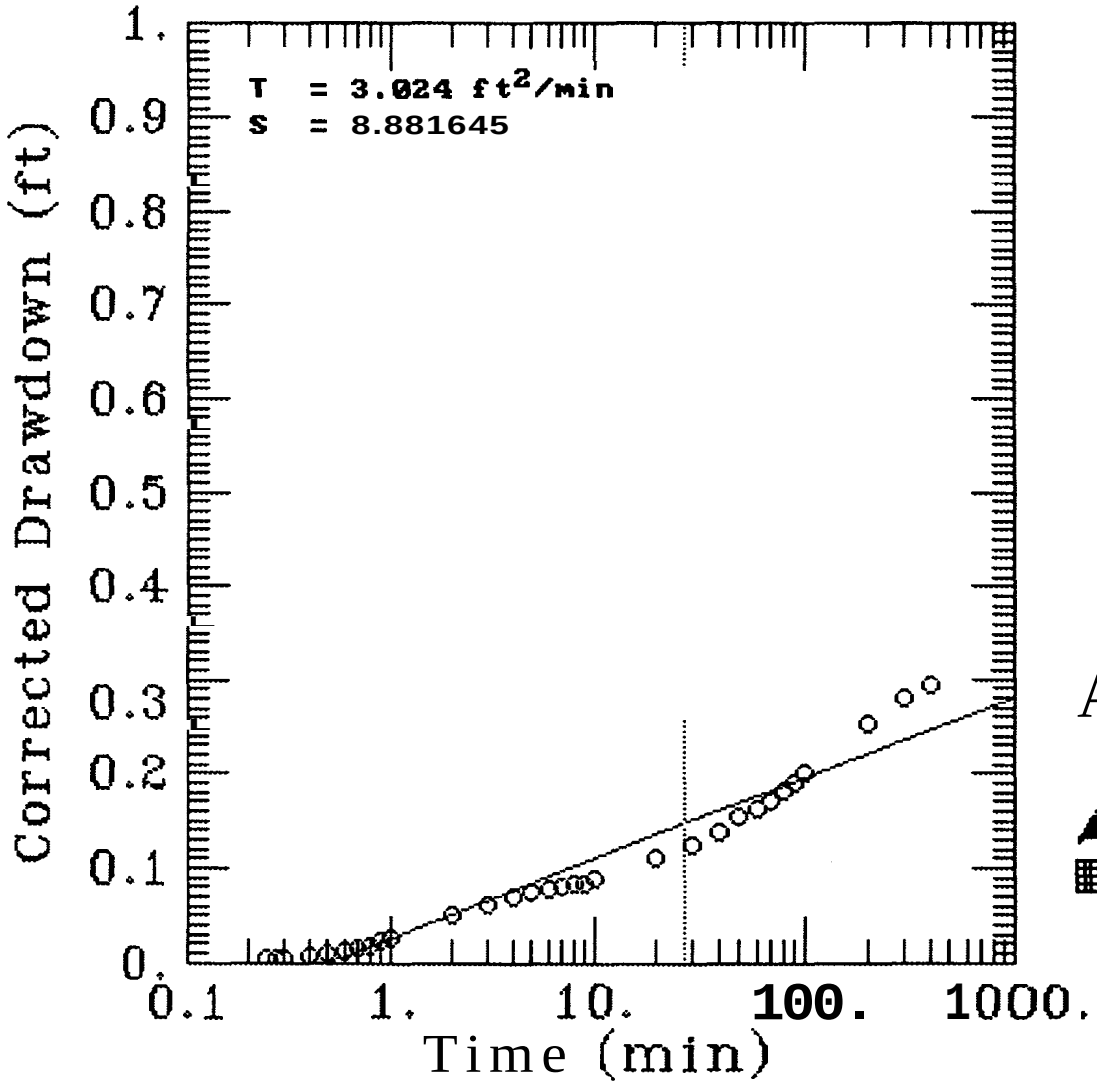


AQTESOLV

GERAGHTY & MILLER, INC.

Modeling Group

Shallow Zone Test – OS2



AQTESOLV

GERAGHTY & MILLER, INC.

Modeling Group

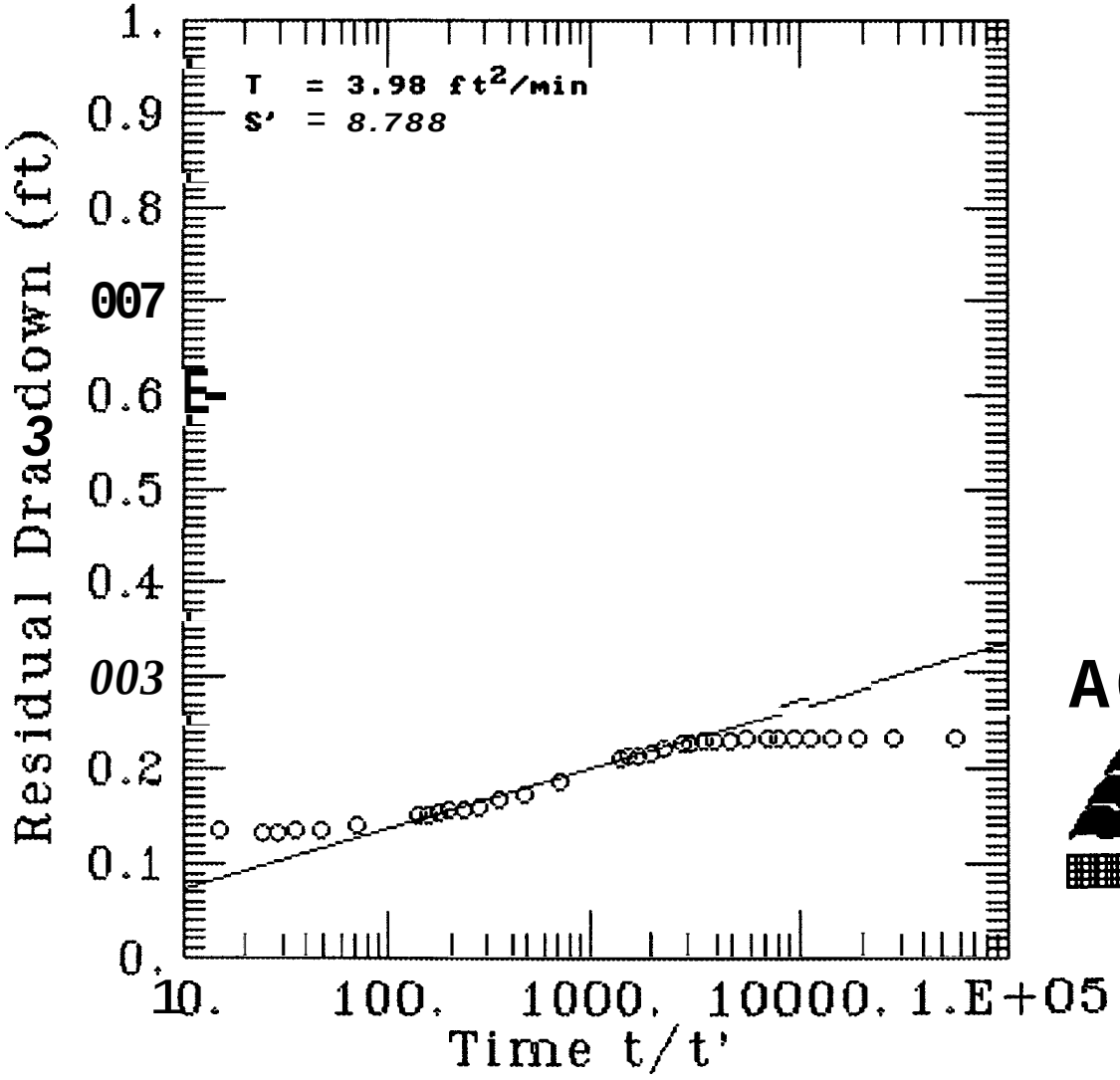
AQTESOLV INPUT FILE

Shallow Zone Recovery - **OS2**

```
wrate
.4
trecov
1420
tsdata
0.025   0.233   1
0.05   0.233   1
0.075   0.233   1
0.1   0.233   1
0.125   0.233   1
0.15   0.233   1
0.175   0.233   1
0.2   0.233   1
0.25   0.233   1
0.3   0.23   1
0.35   0.23   1
0.4   0.23   1
0.45   0.227   1
0.5   0.227   1
0.6   0.224   1
0.7   0.217   1
0.8   0.214   1
0.9   0.214   1
1   0.211   1
2   0.186   1
3   0.173   1
4   0.167   1
5   0.16   1
6   0.157   1
7   0.157   1
a   0.154   1
9   0.151   1
10   0.151   1
20   0.142   1
30   0.135   1
40   0.135   1
50   0.132   1
60   0.132   1
100   0.135   1
```

* NOTE: The first column denotes elapsed time, the second the head reading from zero, and the third is the assigned weight.

Shallow Zone Recovery - OS2



AQTESOLV

GERAGHTY & MILLER, INC.

Modeling Group

AQTESOLV INPUT FILE

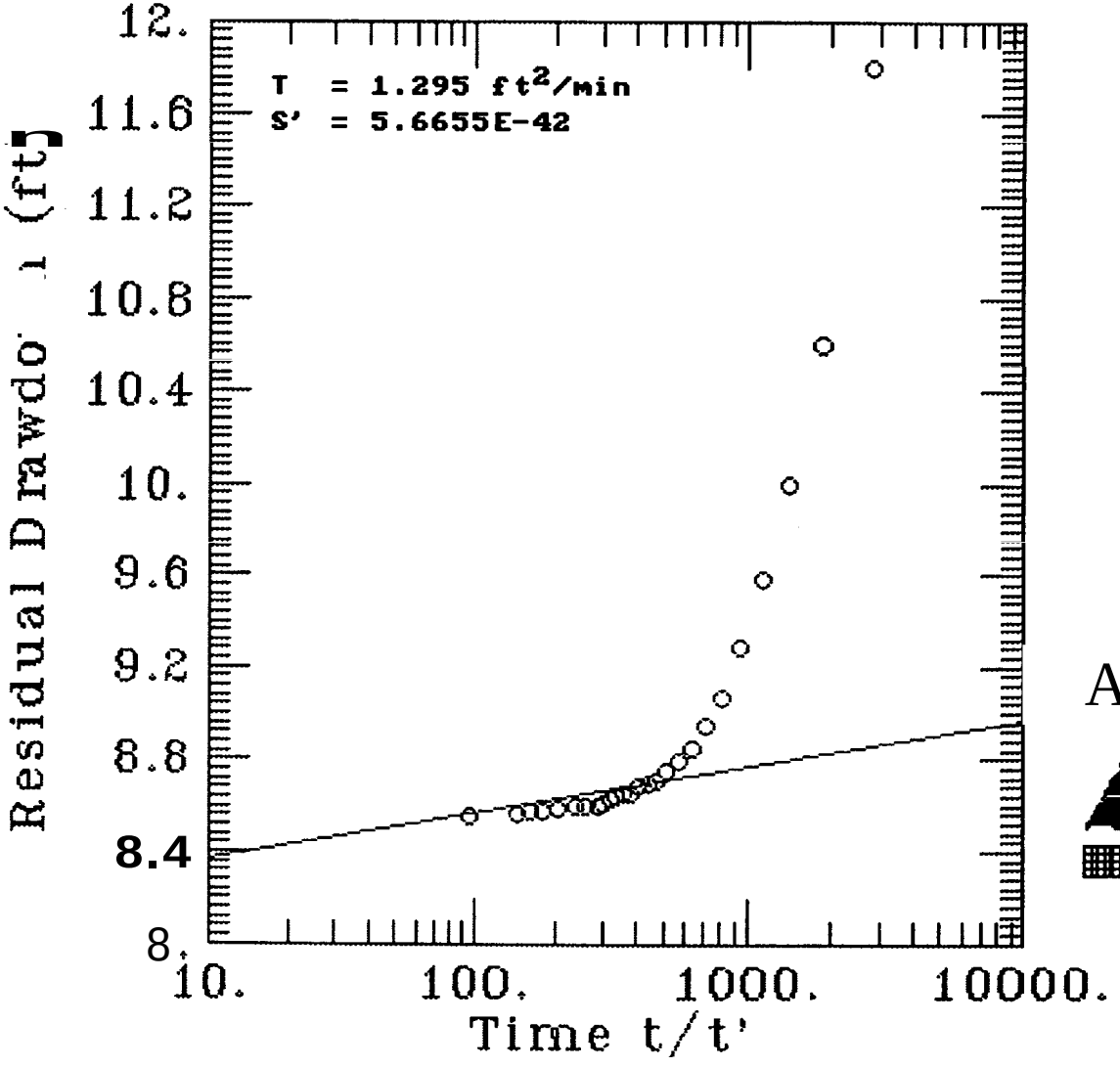
Shallow Zone Recovery - PS

wrate
.4
trecov
1420
tsdata

0.5	11.8	1
0.75	10.6	1
1	10	1
1.25	9.58	1
1.5	9.28	1
1.75	9.07	1
2	8.95	1
2.25	8.85	1
2.5	8.79	1
2.75	8.75	1
3	8.71	1
3.25	8.69	1
3.5	8.68	1
3.75	8.65	1
4	8.65	1
4.25	8.64	1
4.5	8.63	1
4.75	8.61	1
5	8.6	1
5.5	8.6	1
7	8.6	1
[illegible]	8.58	1
8	8.57	1
9	8.57	1
10	8.56	1
15	8.55	1

* **NOTE: The first column denotes elapsed time, the second the head reading from zero, and the third is the assigned weight.**

Shallow Zone Recovery - PS



AQTESOLV

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Modeling Group

AQTESOLV INPUT FILE

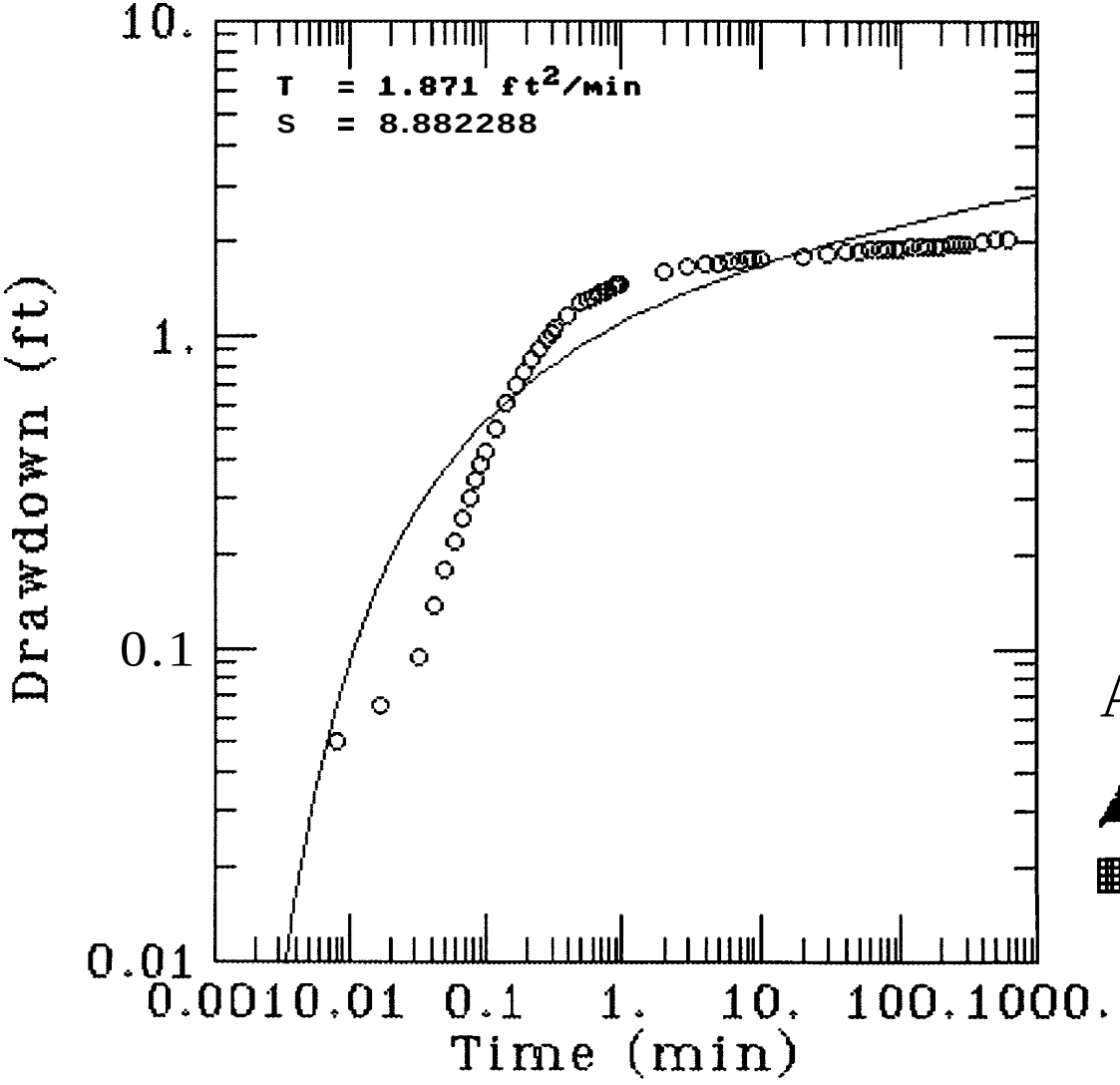
Intermediate Zone Test - OI1

```
wrate
.88
radius
5
ldwell
0.167
0.417
tsdata
0.008   0.05   1
0.017   0.066   1
0.033   0.094   1
0.042   0.138   1
0.05   0.179   1
0.058   0.22   1
0.066   0.261   1
0.075   0.302   1
0.083   0.343   1
0.091   0.387   1
0.1   0.425   1
0.116   0.504   1
0.1416   0.604   1
0.166   0.689   1
0.191   0.768   1
0.216   0.838   1
0.241   0.897   1
.275   0.97   1
.3   1.02   1
0.325   1.06   1
0.4   1.16   1
0.5   1.26   1
0.55   1.29   1
0.6   1.32   1
0.65   1.34   1
0.7   1.37   1
0.75   1.38   1
0.8   1.4   1
0.85   1.42   1
0.9   1.44   1
0.95   1.45   1
1   1.46   1
2   1.6   1
3   1.66   1
4   1.69   1
5   1.7   1
6   1.72   1
7   1.73   1
8   1.738   1
9   1.742   1
10   1.751   1
20   1.795   1
30   1.824   1
   1.846   1
   1.861   1
60   1.877   1
70   1.883   1
80   1.89   1
90   1.89   1
```

100	1.899	1
120	1.909	1
140	1.918	1
160	1.924	1
180	1.94	1
200	1.943	1
240	1.959	1
260	1.968	1
280	1.975	1
300	1.978	1
400	2.003	1
500	2.028	1
600	2.05	1

* NOTE: The first column denotes time, the second the head reading from zero, and the third the assigned weight.

Intermediate Zone Test – 011

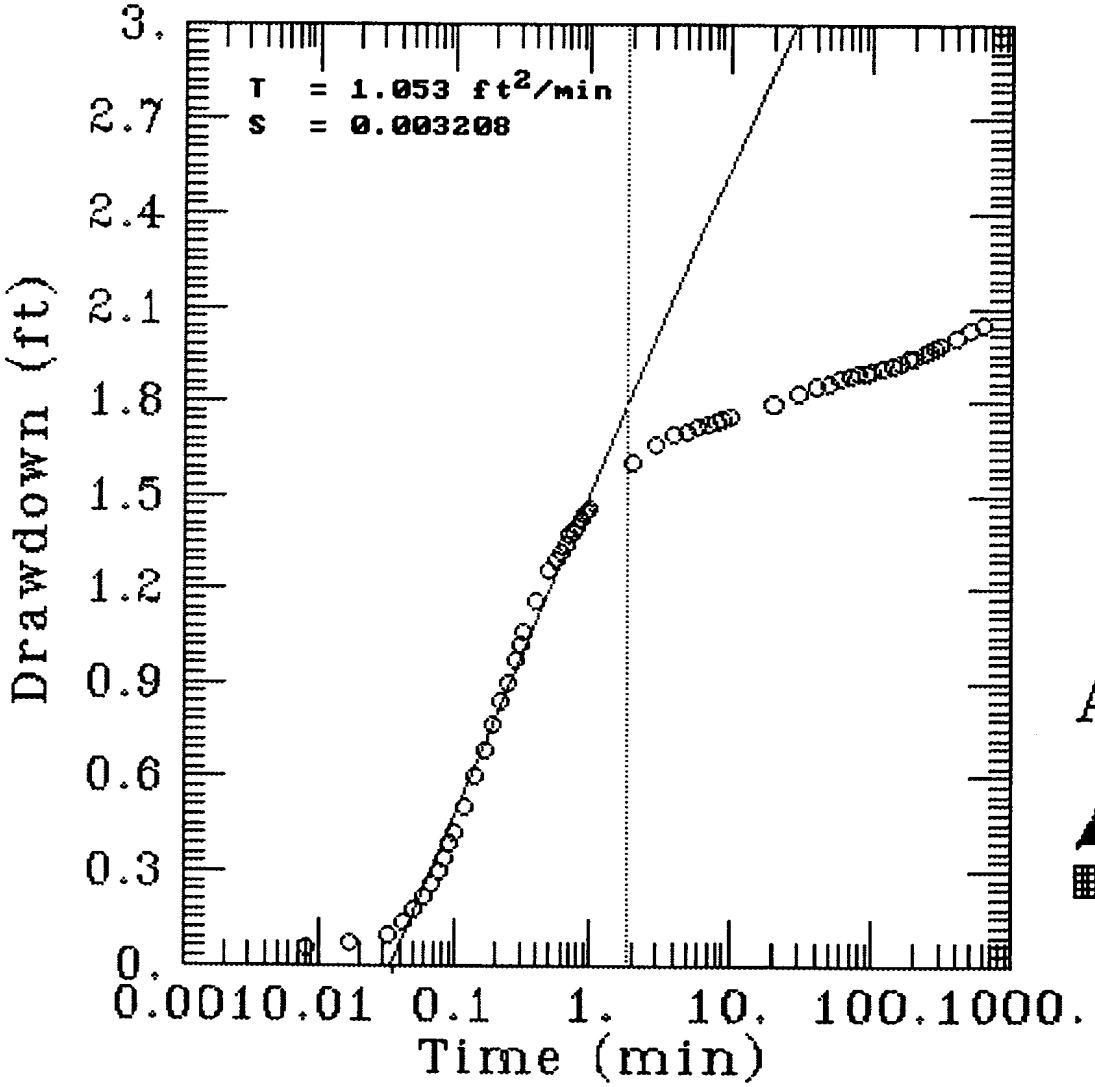


AQTESOLV

GERAGHTY & MILLER, INC.

Modelins Group

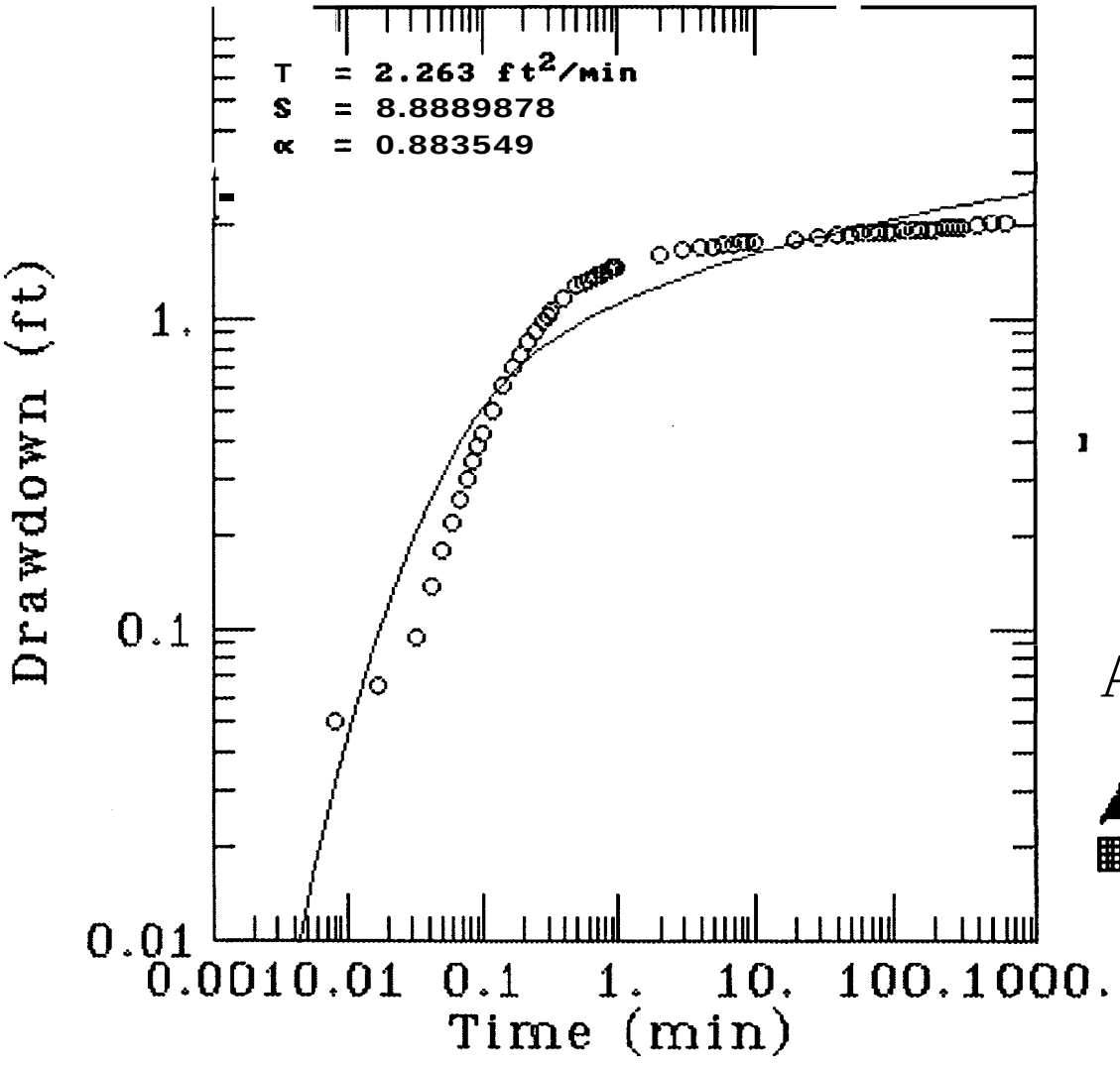
Intermediate Zone Test – OI1



AQTESOLV

GERAGHTY & MILLER, INC.

Modeling Group



AQTESOLV

GERAGHTY & MILLER, INC.

Modeling Group

AQTESOLV INPUT FILE

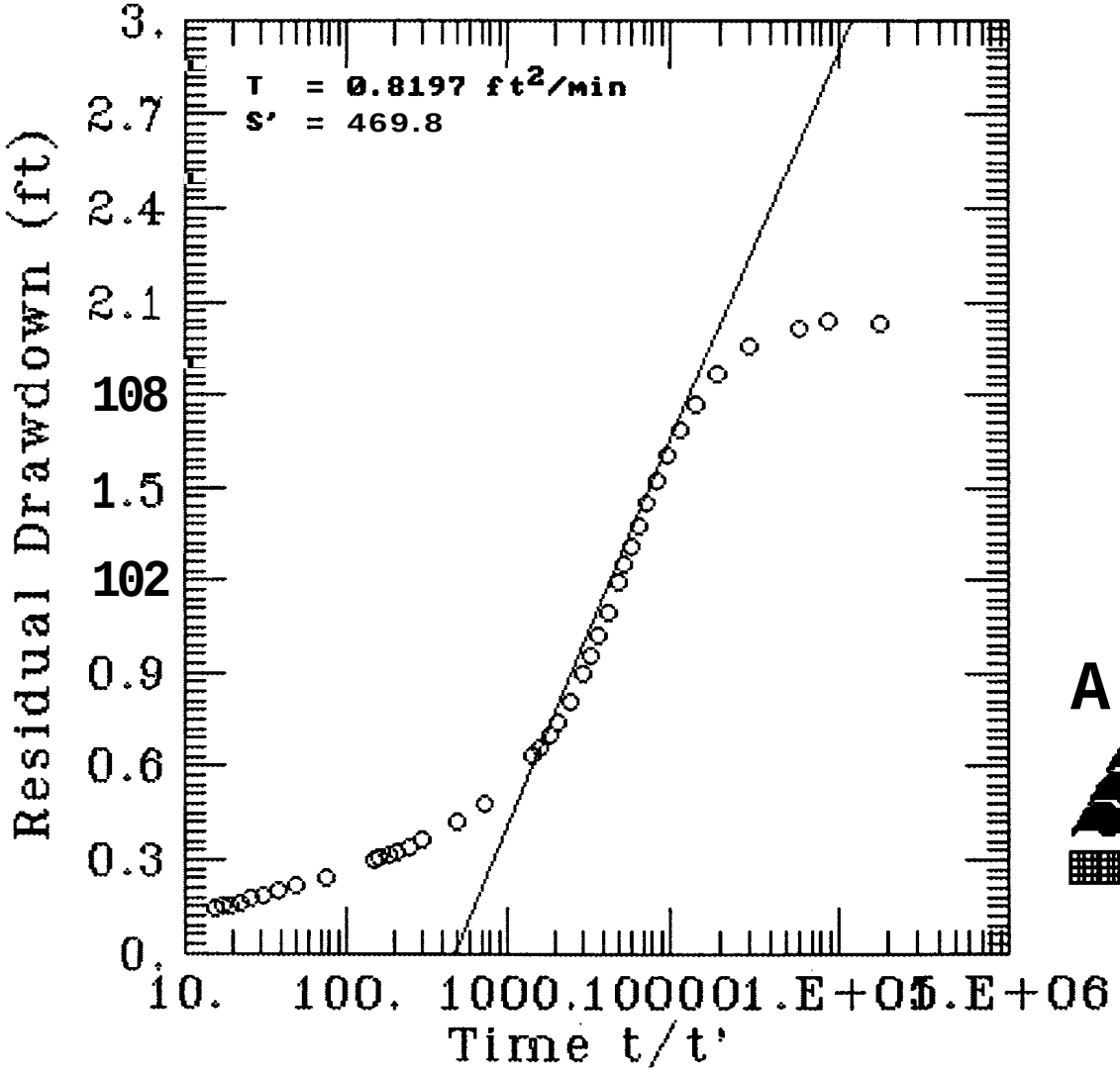
Intermediate Zone Recovery - OI1

wrate
.55
trecov
1480
tsdata

0.0083	2.031	1
0.0166	2.035	1
0.025	2.016	1
0.05	1.953	1
0.075	1.864	1
0.1	1.77	1
0.125	1.682	1
0.15	1.6	1
0.175	1.518	1
0.2	1.446	1
0.225	1.373	1
0.25	1.31	1
0.275	1.25	1
0.3	1.197	1
0.35	1.099	1
0.4	1.02	1
0.45	0.954	1
0.5	0.897	1
0.6	0.812	1
0.7	0.746	1
0.8	0.699	1
9	0.661	1
1	0.633	1
2	0.482	1
3	0.419	1
5	0.362	1
6	0.343	1
7	0.327	1
8	0.315	1
9	0.305	1
10	0.299	1
20	0.245	1
30	0.217	1
40	0.198	1
50	0.182	1
60	0.173	1
70	0.163	1
80	0.154	1
90	0.148	1
100	0.141	1

* NOTE: The first column denotes time, the second the head reading from zero, and the third is the assigned weight.

Intermediate Zone **Recovery** – OI1



AQTESOLV

GERAGHTY & MILLER, INC.

Modeling Group

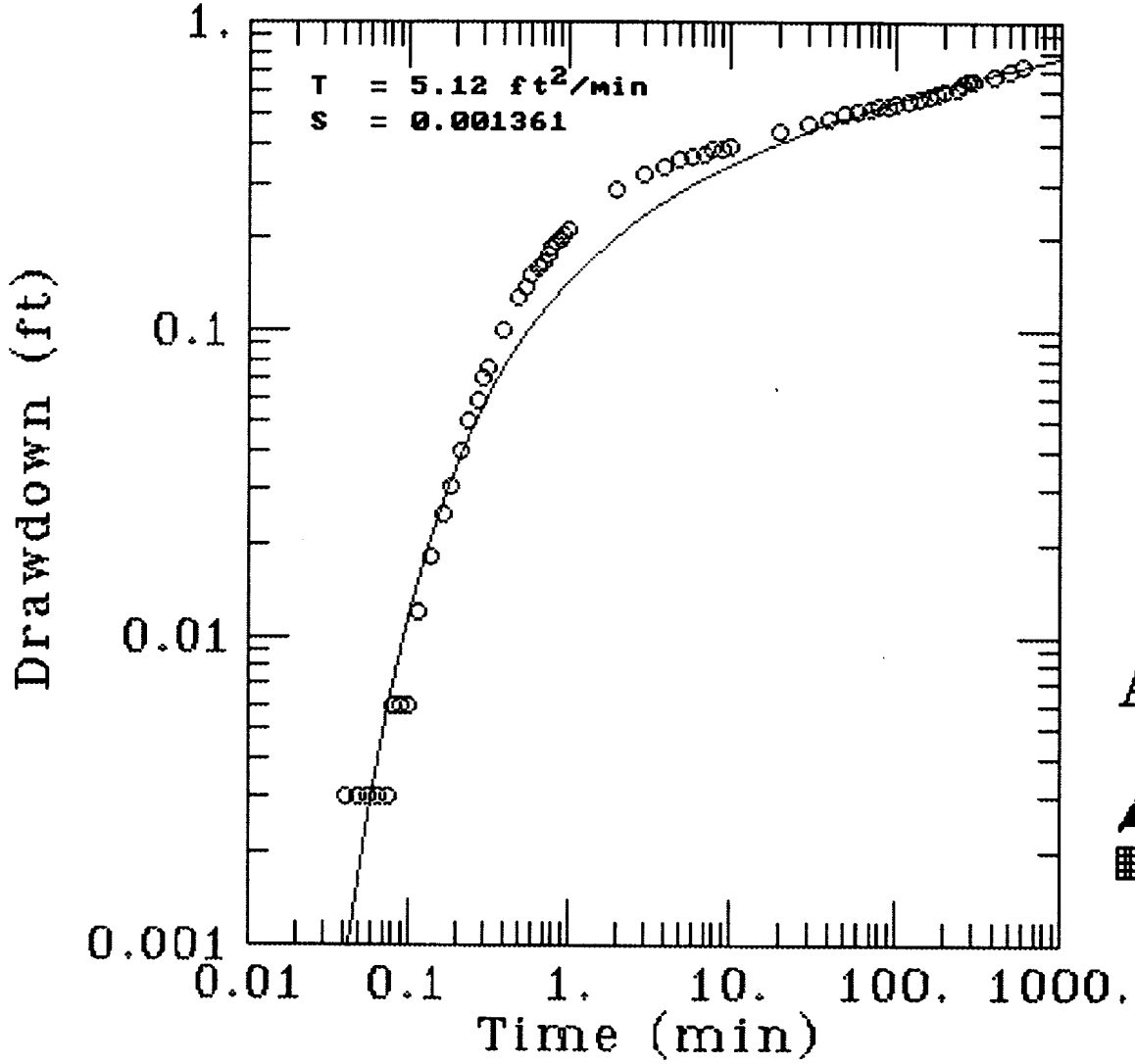
AQTESOLV INPUT FILE

Intermediate Zone Test - 012
wrate
.88
radius
45
ldwell
0.167
0.417
tsdata
0.042 0.003 1
0.05 0.003 1
0.058 0.003 1
0.066 0.003 1
0.075 0.003 1
0.083 0.006 1
0.091 0.006 1
0.1 0.006 1
0.116 0.012 1
0.1416 0.018 1
0.166 0.025 1
0.191 0.031 1
0.216 0.04 1
0.241 0.05 1
0.275 0.059 1
0.3 0.069 1
0.325 0.075 1
0.4 0.1 1
.5 0.126 1
0.55 0.138 1
0.6 0.151 1
0.65 0.16 1
0.7 0.167 1
0.75 0.176 1
0.8 0.185 1
0.85 0.192 1
0.9 0.198 1
0.95 0.204 1
1 0.211 1
2 0.286 1
3 0.321 1
4 0.34 1
5 0.356 1
6 0.365 1
7 0.375 1
8 0.384 1
9 0.39 1
10 0.394 1
20 0.438 1
30 0.466 1
40 0.485 1
50 0.501 1
60 0.513 1
0 0.523 1
0 0.529 1
90 0.535 1
100 0.545 1
120 0.557 1
140 0.57 1

160	0.579	1
180	0.592	1
200	0.598	1
240	0.614	1
260	0.63	1
280	0.639	1
300	0.639	1
400	0.674	1
500	0.702	1
600	0.721	1

* NOTE: The first column denotes elapsed time. the second the head reading from zero, and the third is the assigned weight.

Intermediate Zone Test – OI2



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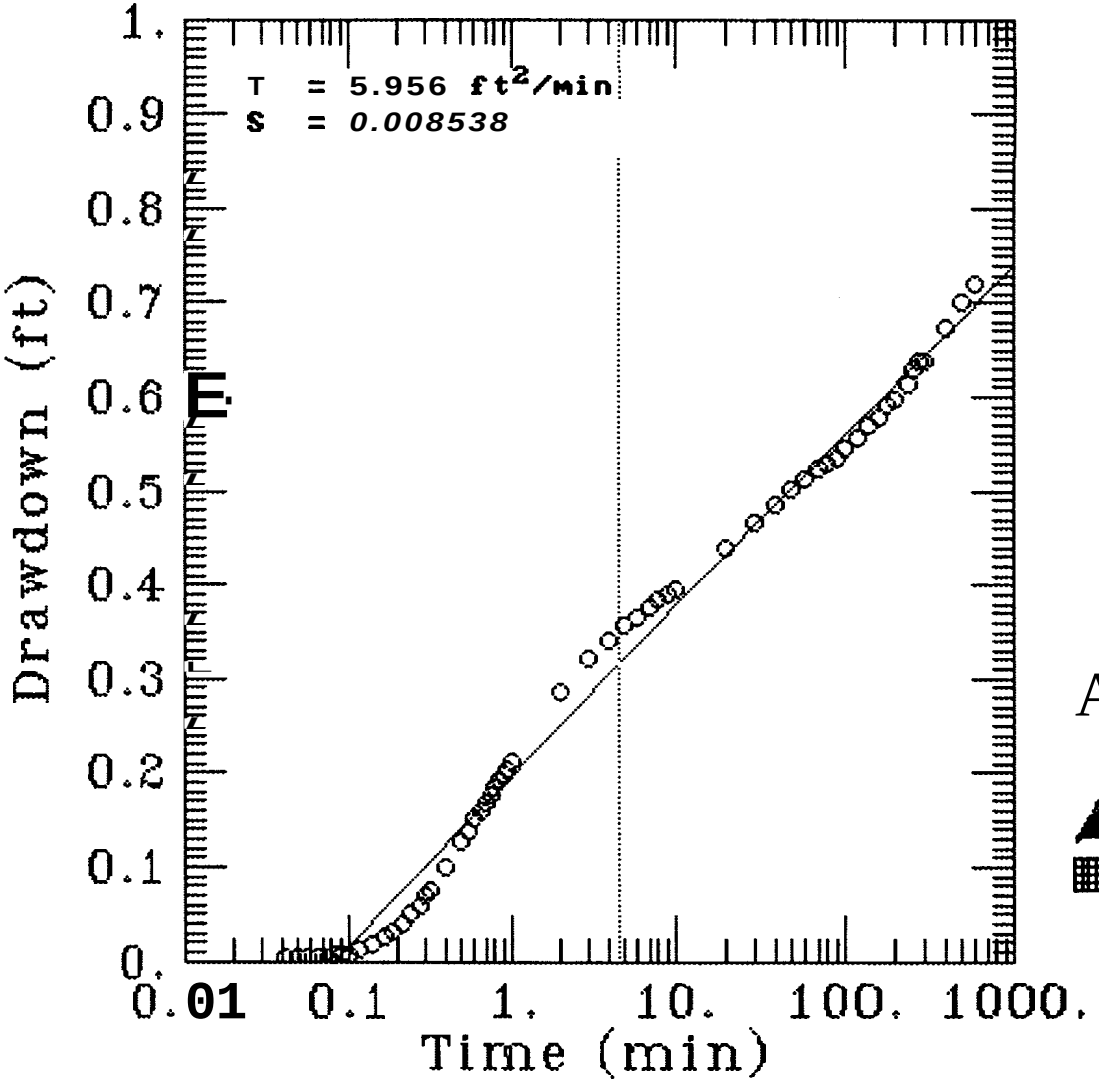
Intermediate Zone Test - OI2



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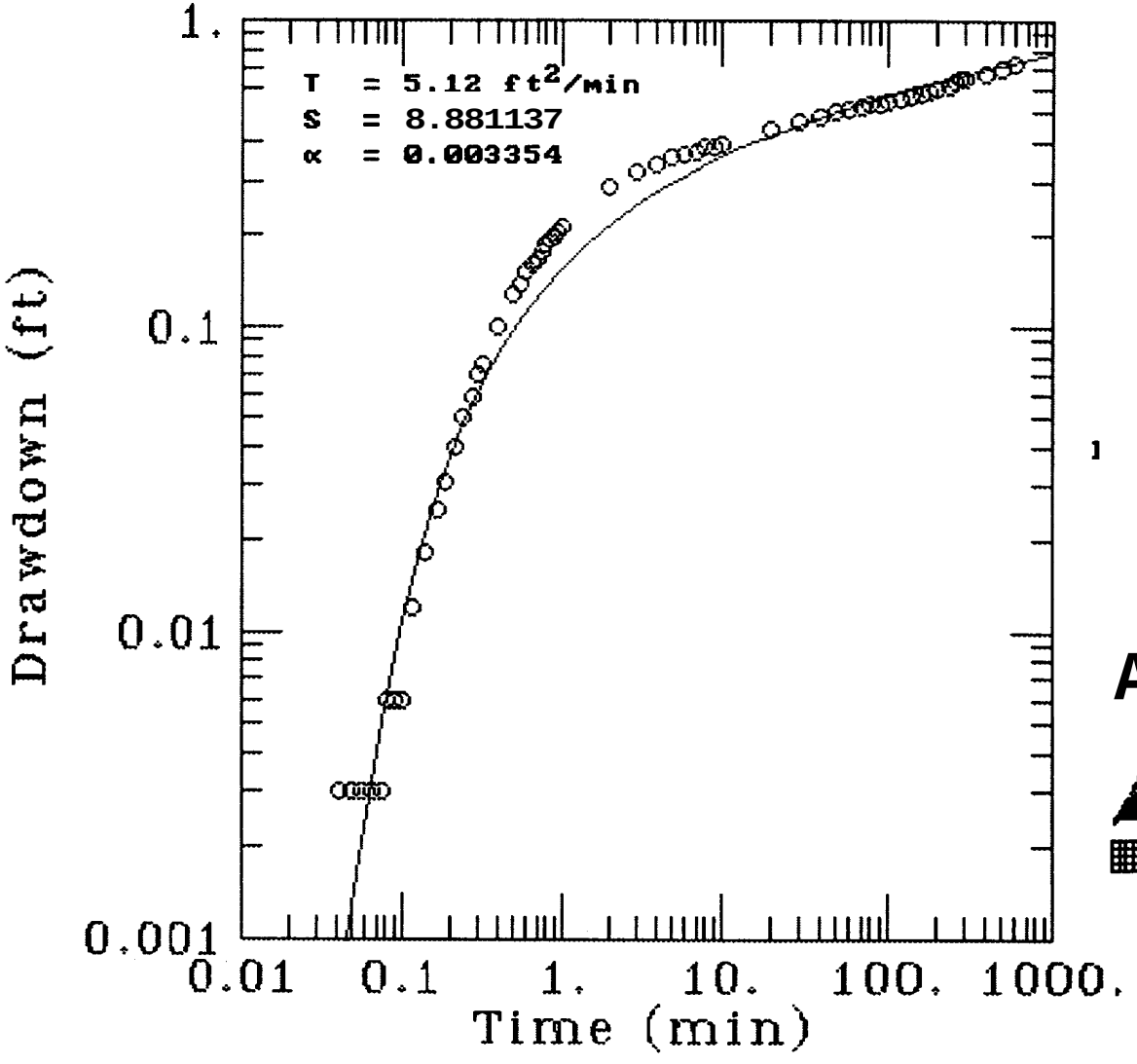
Intermediate Zone Test - OI2



AQTESOLV

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AQTESOLV INPUT FILE

Intermediate Zone Recovery - 012

wrate

.55

trecov

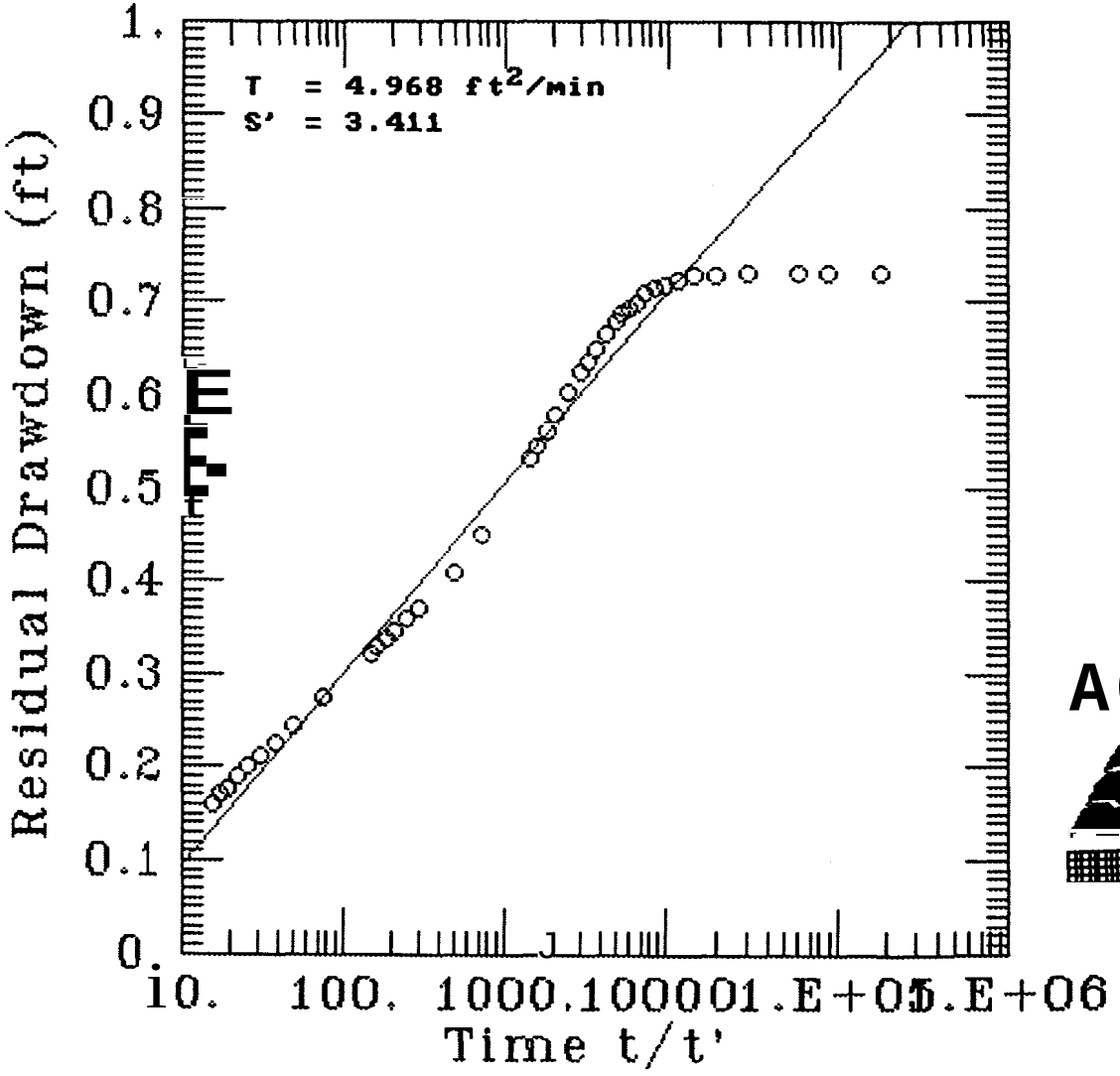
1480

tsdata

0.0083	0.731	1
0.0166	0.731	1
0.025	0.731	1
0.05	0.731	1
0.075	0.728	1
0.1	0.728	1
0.125	0.724	1
0.15	0.718	1
0.175	0.715	1
0.2	0.709	1
0.225	0.699	1
0.25	0.693	1
0.275	0.687	1
0.3	0.68	1
0.35	0.665	1
0.4	0.649	1
0.45	0.636	1
0.5	0.624	1
0.6	0.602	1
0.7	0.579	1
0.8	0.561	1
.9	0.545	1
1	0.532	1
2	0.45	1
3	0.409	1
5	0.371	1
6	0.359	1
7	0.346	1
8	0.337	1
9	0.33	1
10	0.321	1
20	0.274	1
30	0.245	1
40	0.226	1
50	0.211	1
60	0.201	1
70	0.189	1
80	0.176	1
90	0.17	1
100	0.16	1

* NOTE: The first column denotes elapsed time, the second the head reading from zero, and the third is the assigned weight.

Intermediate Zone **Recovery** – 012



AQTESOLV

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AQTESOLV INPUT FILE

Intermediate Zone **Recovery** - PI1

wrate

.55

trecov

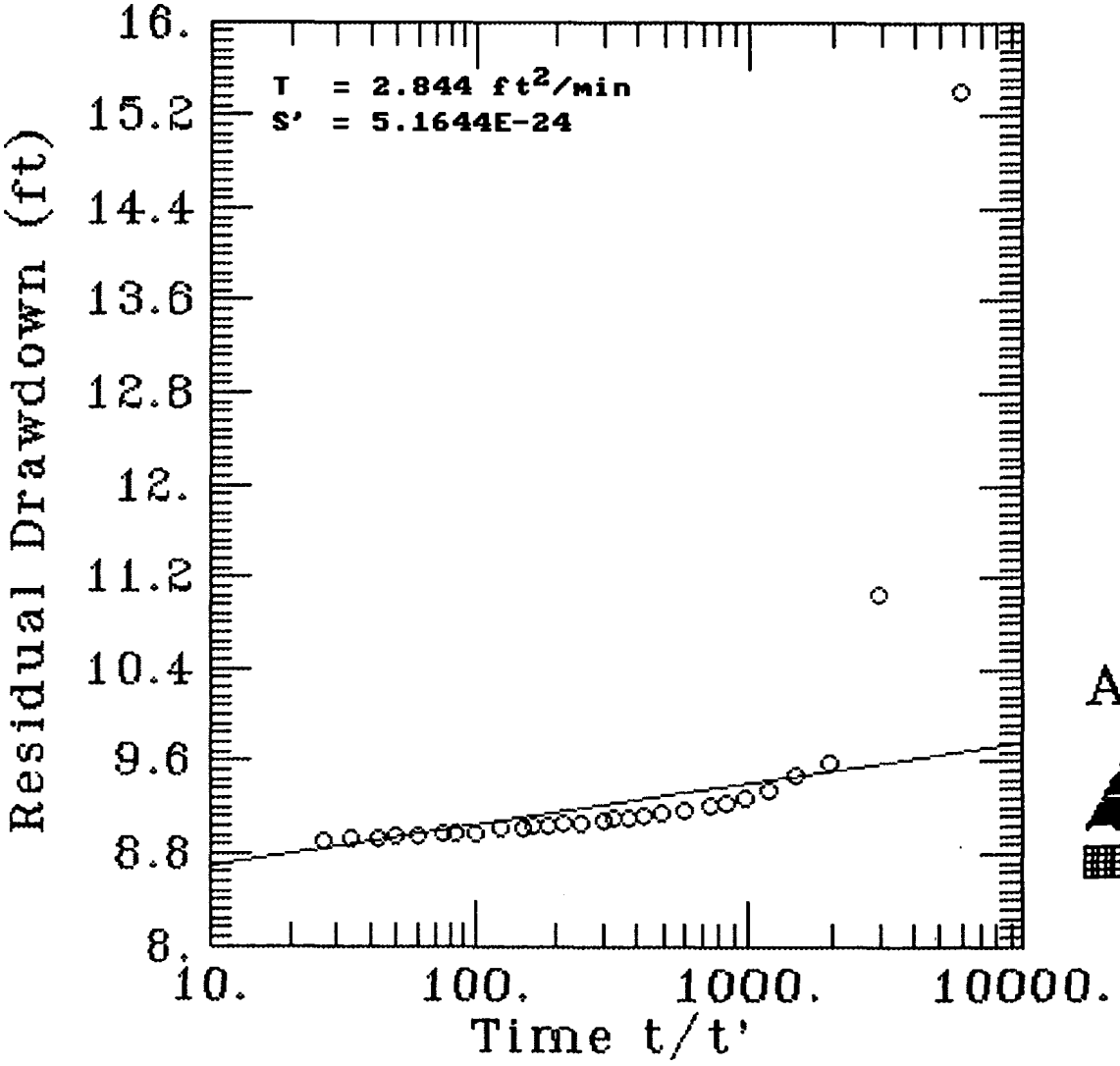
1480

tsdata

0.25	**15.4**	**1**
0.5	**11.05**	**1**
0.75	**9.59**	**1**
1	**9.47**	**1**
1.25	**9.34**	**1**
1.5	**9.29**	**1**
1.75	**9.24**	**1**
2	**9.21**	**1**
2.5	**9.18**	**1**
3	**9.15**	**1**
3.5	**9.13**	**1**
4	**9.11**	**1**
4.5	**9.1**	**1**
5	**9.08**	**1**
6	**9.07**	**1**
7	**9.05**	**1**
8	**9.04**	**1**
9	**9.03**	**1**
10	**9.02**	**1**
12	**9.01**	**1**
15	**8.98**	**1**
18	**8.98**	**1**
20	**8.97**	**1**
25	**8.96**	**1**
30	**8.95**	**1**
35	**8.93**	**1**
45	**8.92**	**1**
58	**8.91**	**1**

* NOTE: The first column denotes elapsed time, the second is the head reading fr
zero, and the third is the assigned weight.

Intermediate Zone **Recovery** – PI1



AQTESOLV

GERAGHTY & MILLER, INC.

Modeling Group

APPENDIX C

MODFLOW FILES

Table of Contents

1.0 MODFLOW Input/Output Files 1

1.1 Input - Basic Package 1

1.2 Input - Block-centered Flow Package 50

1.3 Input - Output Control Package 136

1.4 Input - Recharge Package 137

1.5 Input - Strongly Implicit Procedure Package 167

1.6 Output 168

1.0 MODFLOW INPUT/OUTPUT FILES

1.1 INPUT - BASIC PACKAGE

```
Basic Package translator - (c) 1994 Waterloo Hydrogeologic Software
MADISON.BAS Wed Nov 19 09:23:34 1997
         1        85        145         1         4
 11  0  0  0  0  0  01819  0  022  0  0  0  0  0  0  0  0  023  0  0
         0         1
         1         1(40I2)                        -1 Bnd for Layer 1
 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0-1-1-1-1-1-1 0 0 0 0
 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 . 0
 0-1-1-1-1-1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0-1 1-1 0 0 0 0 0 0 0
 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
- 1 1 1 1 1 - 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0-1 1-1 0 0 0 0 0 0 0
 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0-1-1-1-1-1-1-1
 1 1 1 1 1 - 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0-1 1-1 0 0 0 0 0 0 0
 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 - 1 - 1 1 1 1 1 1 1
 1 1 1 1 1 - 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 - 1
 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0-1 1-1 0 0 0 0 0 0 0
 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 - 1 - 1 1 1 1 1 1 1 1
 1 1 1 1 1-1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0-1-1-1
 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0-1 1-1 0 0 0 0 0 0 0
 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0-1-1-1-1-1-1-1-1-1-1-1-1 1 1 1 1 1 1 1 1
 1 1 1 1 1 - 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 - 1 - 1 - 1 - 1 - 1 1 1
-1 0 0 0 0 0 0-1 0 0 0 0 0 0-1 11-1 0 0 0 0 0 0 0
 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1-1 0 0 0 0 0 0 0 0 0 0 0-1-1-1-1 0 0 0 0 0 0 0 0 0 0-1 1 1 1 1 1 1 1
-1 0 0 0 0 0 0-1 0 0 0 0 0 0-1 11-1 0 0 0 0 0 0 0
 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0-1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1-1 0 0 0 0 0 0 0 0-1-1-1-1-1 1 1 1-1 0 0 0 0 0 0 0 0 0-1 1 1 1 1 1 1 1 1
 1-1 0 0 0 0 0-1-1 0 0 0 0 0-1 1 1-1 0 0 0 0 0 0 0
 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 0 0 0 0 0 0 0 0 0 0 0 0 0-1-1 0 0-1-1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 11-1 0 0 0 0 0 0 0-1-1 1 1 1 1 1 1 11-1 0 0 0 0 0 0 0-1 1 1 1 1 1 1 1 1 1
 1-1-1 0 0 0 0-1 1-1 0 0 0 0-1 1 1-1 0 0 0 0 0 0 0
 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
```

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 0 0 0 0 0 0 0 0 0 0 0 0 0-1 1 1-1-1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 111-1-1 0 0 0 0 0 0-1-1 1 1 1 1 1 1 1 1 1 1-1 0 0 0 0 0-1 1 1 1 1 1 1 1 1 1 1 1
 1 1-1-1 0 0 0-1 1-1 0 0 0 0-1 1 1-1 0 0 0 0 0 0 0
 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 0 0 0 0 0 0 0 0 0 0 0-1-1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1-1-1 0-1-1-1-1-1-1 1 1 1 1 1 1 1 1 1 1 1 1 1-1 0 0-1-1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1-1 0 0-1 1 1 1-1 0 0 0-1 1 1-1 0 0 0 0 0 0 0
 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
-1 0-1-1-1-1-1 0 0-1-1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 11-1 0 0-1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1-1-1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1-1-1 0-1 1 1 1 1-1 0 0 0-1 1 1-1 0 0 0 0 0 0 0
 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 - 1 - 1
 1-1 1 1 1 1 1-1-1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1-1 0 0-1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
-1-1-1-1-1 1 1 1 1 1 1-1 0 0 0-1 1 1 1-1-1 0 0 0 0 0 0
 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 - 1 - 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 11-1 0 0-1-1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 11-1
-1-1-1-1 1 1 1 1 1 1-1 0 0 0-1 1 1 1-1 0 0 0 0 0 0
 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 - 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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0.00000     1.66486     1.66486
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0.00000     1.66486     0.00000
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0.00000     1.66486     1.66486
1.66486     1.66486     1.66486     1.66486     1.66486
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0.00000     1.66486     1.66486     1.66486     1.66486     1.66486     1.66486
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0.00000     1.66486     0.00000     0.00000     0.00000     0.00000     0.00000
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0.00000     1.66486     1.66486     1.66486     1.66486     1.66486     1.66486
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1.66486     0.00000     0.00000
1.66486     0.00000     1.66486     1.66486     1.66486     1.66486     1.66486
0.00000     0.00000     1.66486
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0.00000      0.00000      1.66486
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0.00000      1.66486      1.66486      1.66486      0.00000      1.66486      1.66486
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1.66486      1.66486      1.66486
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1.66486     1.66486     0.00000
0.00000     0.00000     0.00000     0.00000     1.66486     1.66486     1.66486
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0.00000     1.66486     1.66486     1.66486     0.00000     1.66486     1.66486
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0.00000     1.66486     1.66486     1.66486     1.66486     1.66486     1.66486
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1.66486     1.66486     1.75484e-1  1.66486     1.66486     1.66486     1.66486
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0.00000     1.66486     1.66486     1.66486     1 66486
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0.00000	0.00000	0.00000				
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1.0000              11.0000
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1.2 INPUT - BLOCK-CENTERED FLOW PACKAGE

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         1        50-1.00e+030        0 1.00e+000        1        0
 1
        11 1.00e+000(10G11.4)                  -1 Anisotropy factor(s)
1.0000
         0 2.00e+002(10G11.4)                  -1 cell column delta
         0 2.00e+002(10G11.4)                  -1 cell row delta
        111.000     (10G11.4)                  -1 Conductivity Layer - 0
5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1
5.0000e+1  5.0000e+1
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5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1
5.0000e+1  5.0000e+1
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```
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5.0000e+1  5.0000e+1
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5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1
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2.0000e+2  2.0000e+2  5.0000e+1  5.0000e+1  5.0000e+1
2.0000e+2  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1
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5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1
5.0000e+1  5.0000e+1
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2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2
2.0000e+2	2.0000e+2						
2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2
2.0000e+2	2.0000e+2						
2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2
2.0000e+2	2.0000e+2						
2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2
2.0000e+2	2.0000e+2						
2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	5.0000e+1	5.0000e+1	2.0000e+2
2.0000e+2	2.0000e+2						
2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2
2.0000e+2	2.0000e+2						
2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2
2.0000e+2	2.0000e+2						
2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2
2.0000e+2	2.0000e+2						
2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2
2.0000e+2	2.0000e+2						
2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2
2.0000e+2	2.0000e+2						
2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2
2.0000e+2	2.0000e+2						
2.0000e+2	2.0000e+2	5.0000e+1	5.0000e+1	5.0000e+1			
2.0000e+2	5.0000e+1	5.0000e+1	5.0000e+1	5.0000e+1	5.0000e+1	5.0000e+1	5.0000e+1
5.0000e+1	5.0000e+1						
5.0000e+1	5.0000e+1	5.0000e+1	5.0000e+1	5.0000e+1	5.0000e+1	5.0000e+1	5.0000e+1
5.0000e+1	2.0000e+2						
2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2
2.0000e+2	2.0000e+2						
2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2
2.0000e+2	2.0000e+2						
2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2
2.0000e+2	2.0000e+2						
2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2
2.0000e+2	2.0000e+2						
2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2
2.0000e+2	2.0000e+2						
2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2
2.0000e+2	2.0000e+2						
2.0000e+2	5.0000e+1	5.0000e+1	5.0000e+1	5.0000e+1	5.0000e+1	2.0000e+2	2.0000e+2
2.0000e+2	2.0000e+2						
2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2
2.0000e+2	2.0000e+2						
2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2
2.0000e+2	2.0000e+2						
2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2
2.0000e+2	2.0000e+2						
2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2
2.0000e+2	2.0000e+2						
2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2
2.0000e+2	2.0000e+2						
2.0000e+2	2.0000e+2	5.0000e+1	5.0000e+1	5.0000e+1			
2.0000e+2	5.0000e+1	5.0000e+1	5.0000e+1	5.0000e+1	5.0000e+1	5.0000e+1	5.0000e+1
5.0000e+1	5.0000e+1						
5.0000e+1	5.0000e+1	5.0000e+1	5.0000e+1	5.0000e+1	5.0000e+1	2.0000e+2	2.0000e+2
2.0000e+2	2.0000e+2						
2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2
2.0000e+2	2.0000e+2						
2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2
2.0000e+2	2.0000e+2						
2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2
2.0000e+2	2.0000e+2						
2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2
2.0000e+2	2.0000e+2						
2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2
2.0000e+2	2.0000e+2						
2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2
2.0000e+2	2.0000e+2						

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2.0000e+2  2.0000e+2
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5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  2.0000e+2  2.0000e+2
2.0000e+2  2.0000e+2
2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2
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2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2
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5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1
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5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1
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5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1
5.0000e+1  2.0000e+2
2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  4.5000e+2  4.5000e+2  2.0000e+2  2.0000e+2
2.0000e+2  2.0000e+2
2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2
2.0000e+2  2.0000e+2
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2.0000e+2  2.0000e+2
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2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2
2.0000e+2  2.0000e+2
2.0000e+2  2.0000e+2  2.0000e+2  5.0000e+1  5.0000e+1
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5.0000e+1  5.0000e+1
5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  2.0000e+2  2.0000e+2
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2.0000e+2  2.0000e+2
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2.0000e+2  2.0000e+2
2.0000e+2  2.0000e+2  4.5000e+2  4.5000e+2  4.5000e+2  4.5000e+2  4.5000e+2  2.0000e+2
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2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2
2.0000e+2  2.0000e+2
2.0000e+2  2.0000e+2  2.0000e+2  5.0000e+1  5.0000e+1
```

```
2.0000e+2  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1
5.0000e+1  5.0000e+1
5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  2.0000e+2  2.0000e+2
2.0000e+2  2.0000e+2
2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2
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2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  5.0000e+1  5.0000e+1  5.0000e+1
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5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  2.0000e+2
2.0000e+2  2.0000e+2
4.5000e+2  4.5000e+2  4.5000e+2  4.5000e+2  4.5000e+2  4.5000e+2  4.5000e+2  2.0000e+2
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2.0000e+2  2.0000e+2  2.0000e+2  5.0000e+1  5.0000e+1
2.0000e+2  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1
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5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  2.0000e+2  2.0000e+2
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2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2
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5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  2.0000e+2  2.0000e+2
2.0000e+2  4.5000e+2
4.5000e+2  4.5000e+2  4.5000e+2  4.5000e+2  4.5000e+2  4.5000e+2  4.5000e+2  2.0000e+2
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5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  2.0000e+2  2.0000e+2
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2.0000e+2  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1
5.0000e+1  5.0000e+1
5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  2.0000e+2  2.0000e+2
2.0000e+2  2.0000e+2
2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2
2.0000e+2  2.0000e+2
2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  5.0000e+1  5.0000e+1  5.0000e+1
5.0000e+1  5.0000e+1
```

```
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5.0000e+1  5.0000e+1
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5.0000e+1  5.0000e+1
5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  2.0000e+2  2.0000e+2  2.0000e+2
4.5000e+2  4.5000e+2
4.5000e+2  4.5000e+2  4.5000e+2  4.5000e+2  4.5000e+2  4.5000e+2  4.5000e+2  2.0000e+2
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5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  2.0000e+2  2.0000e+2
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5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  2.0000e+2  2.0000e+2  2.0000e+2  4.5000e+2
4.5000e+2  4.5000e+2
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5.0000e+1  5.0000e+1
5.0000e+1  5.0000e+1  5.0000e+1  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  4.5000e+2
4.5000e+2  4.5000e+2
```

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2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.5000e+1  2.5000e+1  2.5000e+1  2.5000e+1
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5.0000e+1  5.0000e+1
5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  2.0000e+2
2.0000e+2  2.0000e+2
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2.0000e+2  2.0000e+2
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4.5000e+2  4.5000e+2  4.5000e+2  4.5000e+2  4.5000e+2  2.0000e+2  2.0000e+2  2.0000e+2
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2.5000e+1  2.5000e+1  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2
2.0000e+2  2.0000e+2
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2.5000e+1  2.5000e+1  2.5000e+1  2.5000e+1  2.5000e+1  2.5000e+1  2.5000e+1  2.5000e+1
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2.0000e+2  2.0000e+2
```

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2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  4.5000e+2  4.5000e+2  4.5000e+2
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5.0000e+1  5.0000e+1
```

```
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2.0000e+2  2.0000e+2
2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  5.0000e+1  5.0000e+1  5.0000e+1
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2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  4.5000e+2  4.5000e+2  4.5000e+2  4.5000e+2
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4.5000e+2  4.5000e+2  4.5000e+2  4.5000e+2  4.5000e+2  4.5000e+2  2.0000e+2  2.0000e+2
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2.0000e+2  2.0000e+2
2.0000e+2  2.0000e+2  2.0000e+2  5.0000e+1  5.0000e+1
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5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  2.0000e+2
2.0000e+2  2.0000e+2
2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  4.5000e+2
2.0000e+2  2.0000e+2
2.0000e+2  2.0000e+2  2.0000e+2  1.0000     1.0000     1.0000     5.0000e+1  5.0000e+1
5.0000e+1  5.0000e+1
5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1
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2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  4.5000e+2  4.5000e+2  4.5000e+2  4.5000e+2
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4.5000e+2  4.5000e+2  4.5000e+2  4.5000e+2  4.5000e+2  4.5000e+2  2.0000e+2  2.0000e+2
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2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  4.5000e+2  4.5000e+2
4.5000e+2  4.5000e+2
4.5000e+2  4.5000e+2  1.0000     1.0000     1.0000     1.0000     4.5000e+2  2.0000e+2
2.0000e+2  2.0000e+2
2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2
2.0000e+2  2.0000e+2
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2.0000e+2	2.0000e+2						
2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2
2.0000e+2	2.0000e+2						
2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	4.5000e+2	4.5000e+2	4.5000e+2	4.5000e+2
4.5000e+2	4.5000e+2						
4.5000e+2	4.5000e+2	4.5000e+2	4.5000e+2	4.5000e+2	4.5000e+2	2.0000e+2	2.0000e+2
2.0000e+2	2.5000e+1						
2.5000e+1	2.5000e+1	2.5000e+1	2.5000e+1	2.5000e+1	2.5000e+1	2.5000e+1	2.5000e+1
2.5000e+1	2.5000e+1						
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5.0000e+1	5.0000e+1						
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5.0000e+1	5.0000e+1						
5.0000e+1	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	4.5000e+2
4.5000e+2	4.5000e+2						
4.5000e+2	4.5000e+2	4.5000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2
2.0000e+2	2.0000e+2						
2.0000e+2	2.0000e+2	2.0000e+2	5.0000e+1	5.0000e+1			
2.0000e+2	5.0000e+1	5.0000e+1	5.0000e+1	5.0000e+1	5.0000e+1	5.0000e+1	5.0000e+1
5.0000e+1	5.0000e+1						
5.0000e+1	5.0000e+1	5.0000e+1	5.0000e+1	5.0000e+1	5.0000e+1	5.0000e+1	2.0000e+2
2.0000e+2	2.0000e+2						
2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	4.5000e+2	4.5000e+2	4.5000e+2
4.5000e+2	4.5000e+2						
4.5000e+2	1.0000	1.0000	1.0000	1.0000	4.5000e+2	4.5000e+2	2.0000e+2
2.0000e+2	2.0000e+2						
2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2
2.0000e+2	2.0000e+2						
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2.0000e+2	2.0000e+2						
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2.0000e+2	2.0000e+2						
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4.5000e+2	4.5000e+2						
4.5000e+2	4.5000e+2	4.5000e+2	4.5000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.5000e+1
2.5000e+1	2.5000e+1						
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2.5000e+1	2.5000e+1						
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5.0000e+1	5.0000e+1						
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5.0000e+1	5.0000e+1						
5.0000e+1	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	4.5000e+2	4.5000e+2	4.5000e+2
4.5000e+2	4.5000e+2						
4.5000e+2	4.5000e+2	4.5000e+2	4.5000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2
2.0000e+2	2.0000e+2						
2.0000e+2	2.0000e+2	2.0000e+2	5.0000e+1	5.0000e+1			
2.0000e+2	5.0000e+1	5.0000e+1	5.0000e+1	5.0000e+1	5.0000e+1	5.0000e+1	5.0000e+1
5.0000e+1	5.0000e+1						
5.0000e+1	5.0000e+1	5.0000e+1	5.0000e+1	5.0000e+1	5.0000e+1	5.0000e+1	2.0000e+2
2.0000e+2	2.0000e+2						
2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	4.5000e+2	4.5000e+2	4.5000e+2
4.5000e+2	4.5000e+2						
1.0000	1.0000	1.0000	1.0000	4.5000e+2	4.5000e+2	2.0000e+2	2.0000e+2
2.0000e+2	2.0000e+2						
2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2
2.0000e+2	2.0000e+2						
2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2
2.0000e+2	2.0000e+2						
2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2
2.0000e+2	2.0000e+2						
2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2	2.0000e+2
4.5000e+2	4.5000e+2						
4.5000e+2	4.5000e+2	4.5000e+2	4.5000e+2	2.0000e+2	2.0000e+2	2.5000e+1	2.5000e+1
2.5000e+1	2.5000e+1						

```
2.5000e+1  2.5000e+1  2.5000e+1  2.5000e+1  2.5000e+1  2.5000e+1  2.5000e+1  2.5000e+1
2.5000e+1  2.5000e+1
2.5000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1
5.0000e+1  5.0000e+1
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2.0000e+2  2.0000e+2
2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  4.5000e+2  4.5000e+2  4.5000e+2  4.5000e+2
4.5000e+2  1.0000
1.0000     1.0000     4.5000e+2  4.5000e+2  4.5000e+2  2.0000e+2  2.0000e+2  2.0000e+2
2.0000e+2  2.0000e+2
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2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  4.5000e+2  4.5000e+2  4.5000e+2  4.5000e+2
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4.5000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.5000e+1  2.5000e+1  2.5000e+1
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2.0000e+2  4.5000e+2  4.5000e+2  4.5000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2
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4.5000e+2  4.5000e+2
```

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5.0000e+1  5.0000e+1  5.0000e+1  4.5000e+2  4.5000e+2  4.5000e+2  4.5000e+2  4.5000e+2
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4.5000e+2  4.5000e+2  4.5000e+2  4.5000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2
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2.0000e+2  2.0000e+2
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2.0000e+2  2.0000e+2
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2.5000e+1  2.5000e+1  2.5000e+1  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2
2.0000e+2  2.0000e+2
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5.0000e+1  5.0000e+1  4.5000e+2  4.5000e+2  4.5000e+2  4.5000e+2  4.5000e+2  4.5000e+2
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4.5000e+2  4.5000e+2  4.5000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2
2.0000e+2  2.0000e+2
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5.0000e+1  5.0000e+1
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5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1
5.0000e+1  5.0000e+1
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4.5000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2
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2.0000e+2  2.0000e+2
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2.5000e+1  1.0000     1.0000     1.0000     1.0000     2.5000e+1  2.0000e+2  2.0000e+2
2.0000e+2  2.0000e+2
2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2
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5.0000e+1  2.5000e+1
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2.0000e+2  2.0000e+2
2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  5.0000e+1
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5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1
2.0000e+2  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1
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5.0000e+1  5.0000e+1
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2.0000e+2  2.0000e+2
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2.0000e+2  2.0000e+2
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5.0000e+1  5.0000e+1
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5.0000e+1  5.0000e+1
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2.0000e+2  2.0000e+2
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5.0000e+1  5.0000e+1
2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2
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2.0000e+2  2.0000e+2
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2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2
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5.0000e+1  5.0000e+1
5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1  5.0000e+1
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2.0000e+2  2.0000e+2
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2.0000e+2  2.0000e+2
2.0000e+2  2.0000e+2  2.0000e+2  2.0000e+2  5.0000e+1
        111.000       (10G11.4)                    -1 Aquifer Bottom - 0
-1.4175e+1 -1.4244e+1 -1.4334e+1 -1.4392e+1 -1.4404e+1 -1.4414e+1 -1.4472e+1 -1.4564e+1
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```

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```

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```

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```

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```

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```

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```

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```

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```

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```

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```

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-2.4901e+1 -2.5075e+1
```

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```

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-4.1781e+1 -4.2031e+1
-4.2047e+1 -4.2222e+1 -4.2510e+1 -4.2884e+1 -4.3103e+1 -4.3117e+1 -4.3276e+1 -4.3518e+1
-4.3812e+1 -4.3971e+1
-4.3982e+1 -4.4094e+1 -4.4252e+1 -4.4434e+1 -4.4523e+1 -4.4528e+1 -4.4577e+1 -4.4639e+1
-4.4712e+1 -4.4741e+1
-4.4743e+1 -4.4732e+1 -4.4715e+1 -4.4705e+1 -4.4702e+1
-1.9843e+1 -1.9955e+1 -2.0115e+1 -2.0244e+1 -2.0285e+1 -2.0293e+1 -2.0447e+1 -2.0639e+1
-2.0809e+1 -2.0870e+1
```

```
-2.0880e+1 -2.1060e+1 -2.1295e+1 -2.1523e+1 -2.1612e+1 -2.1624e+1 -2.1828e+1 -2.2102e+1
-2.2387e+1 -2.2501e+1
-2.2515e+1 -2.2730e+1 -2.3021e+1 -2.3330e+1 -2.3456e+1 -2.3470e+1 -2.3684e+1 -2.3969e+1
-2.4263e+1 -2.4387e+1
-2.4401e+1 -2.4615e+1 -2.4895e+1 -2.5168e+1 -2.5292e+1 -2.5307e+1 -2.5540e+1 -2.5853e+1
-2.6158e+1 -2.6307e+1
-2.6324e+1 -2.6603e+1 -2.6998e+1 -2.7424e+1 -2.7630e+1 -2.7653e+1 -2.7984e+1 -2.8475e+1
-2.9059e+1 -2.9333e+1
-2.9360e+1 -2.9714e+1 -3.0250e+1 -3.0927e+1 -3.1241e+1 -3.1269e+1 -3.1593e+1 -3.2084e+1
-3.2721e+1 -3.3024e+1
-3.3048e+1 -3.3300e+1 -3.3681e+1 -3.4171e+1 -3.4420e+1 -3.4438e+1 -3.4612e+1 -3.4872e+1
-3.5201e+1 -3.5382e+1
-3.5394e+1 -3.5510e+1 -3.5682e+1 -3.5891e+1 -3.6013e+1 -3.6021e+1 -3.6107e+1 -3.6230e+1
-3.6366e+1 -3.6448e+1
-3.6453e+1 -3.6531e+1 -3.6638e+1 -3.6741e+1 -3.6800e+1 -3.6805e+1 -3.6892e+1 -3.7006e+1
-3.7109e+1 -3.7161e+1
-3.7167e+1 -3.7275e+1 -3.7417e+1 -3.7547e+1 -3.7608e+1 -3.7615e+1 -3.7750e+1 -3.7933e+1
-3.8111e+1 -3.8192e+1
-3.8202e+1 -3.8367e+1 -3.8596e+1 -3.8834e+1 -3.8943e+1 -3.8956e+1 -3.9147e+1 -3.9420e+1
-3.9720e+1 -3.9861e+1
-3.9875e+1 -4.0084e+1 -4.0390e+1 -4.0746e+1 -4.0915e+1 -4.0931e+1 -4.1142e+1 -4.1460e+1
-4.1849e+1 -4.2036e+1
-4.2052e+1 -4.2245e+1 -4.2541e+1 -4.2920e+1 -4.3104e+1 -4.3118e+1 -4.3269e+1 -4.3503e+1
-4.3816e+1 -4.3970e+1
-4.3980e+1 -4.4073e+1 -4.4218e+1 -4.4416e+1 -4.4520e+1 -4.4526e+1 -4.4560e+1 -4.4615e+1
-4.4692e+1 -4.4740e+1
-4.4741e+1 -4.4731e+1 -4.4716e+1 -4.4697e+1 -4.4700e+1
-1.9977e+1 -2.0077e+1 -2.0201e+1 -2.0371e+1 -2.0384e+1 -2.0467e+1 -2.0594e+1 -2.0731e+1
-2.0942e+1 -2.0968e+1
-2.1069e+1 -2.1217e+1 -2.1389e+1 -2.1652e+1 -2.1698e+1 -2.1817e+1 -2.1981e+1 -2.2191e+1
-2.2497e+1 -2.2564e+1
-2.2698e+1 -2.2867e+1 -2.3103e+1 -2.3420e+1 -2.3500e+1 -2.3641e+1 -2.3804e+1 -2.4047e+1
-2.4352e+1 -2.4431e+1
-2.4575e+1 -2.4739e+1 -2.4979e+1 -2.5283e+1 -2.5356e+1 -2.5510e+1 -2.5694e+1 -2.5948e+1
-2.6307e+1 -2.6388e+1
-2.6568e+1 -2.6794e+1 -2.7100e+1 -2.7574e+1 -2.7694e+1 -2.7910e+1 -2.8174e+1 -2.8564e+1
-2.9154e+1 -2.9331e+1
-2.9576e+1 -2.9846e+1 -3.0304e+1 -3.0930e+1 -3.1153e+1 -3.1400e+1 -3.1632e+1 -3.2097e+1
-3.2647e+1 -3.2876e+1
-3.3096e+1 -3.3263e+1 -3.3663e+1 -3.4072e+1 -3.4266e+1 -3.4440e+1 -3.4549e+1 -3.4846e+1
-3.5121e+1 -3.5262e+1
-3.5391e+1 -3.5464e+1 -3.5666e+1 -3.5848e+1 -3.5942e+1 -3.6037e+1 -3.6095e+1 -3.6232e+1
-3.6366e+1 -3.6423e+1
-3.6499e+1 -3.6558e+1 -3.6660e+1 -3.6780e+1 -3.6815e+1 -3.6885e+1 -3.6956e+1 -3.7049e+1
-3.7181e+1 -3.7207e+1
-3.7281e+1 -3.7372e+1 -3.7476e+1 -3.7644e+1 -3.7671e+1 -3.7758e+1 -3.7873e+1 -3.8004e+1
-3.8222e+1 -3.8261e+1
-3.8366e+1 -3.8504e+1 -3.8672e+1 -3.8946e+1 -3.9004e+1 -3.9128e+1 -3.9285e+1 -3.9494e+1
-3.9820e+1 -3.9902e+1
-4.0042e+1 -4.0211e+1 -4.0454e+1 -4.0820e+1 -4.0925e+1 -4.1075e+1 -4.1241e+1 -4.1506e+1
-4.1884e+1 -4.2008e+1
-4.2155e+1 -4.2301e+1 -4.2564e+1 -4.2910e+1 -4.3039e+1 -4.3169e+1 -4.3277e+1 -4.3504e+1
-4.3771e+1 -4.3886e+1
-4.3983e+1 -4.4044e+1 -4.4204e+1 -4.4362e+1 -4.4444e+1 -4.4501e+1 -4.4519e+1 -4.4598e+1
-4.4653e+1 -4.4692e+1
-4.4712e+1 -4.4701e+1 -4.4706e+1 -4.4692e+1 -4.4693e+1
-2.0195e+1 -2.0246e+1 -2.0448e+1 -2.0544e+1 -2.0609e+1 -2.0734e+1 -2.0803e+1 -2.0912e+1
-2.1117e+1 -2.1195e+1
-2.1351e+1 -2.1437e+1 -2.1571e+1 -2.1816e+1 -2.1911e+1 -2.2101e+1 -2.2202e+1 -2.2360e+1
-2.2642e+1 -2.2752e+1
-2.2966e+1 -2.3076e+1 -2.3247e+1 -2.3552e+1 -2.3669e+1 -2.3889e+1 -2.4001e+1 -2.4174e+1
-2.4488e+1 -2.4606e+1
-2.4824e+1 -2.4937e+1 -2.5112e+1 -2.5438e+1 -2.5560e+1 -2.5789e+1 -2.5915e+1 -2.6110e+1
-2.6475e+1 -2.6611e+1
-2.6886e+1 -2.7041e+1 -2.7282e+1 -2.7717e+1 -2.7883e+1 -2.8232e+1 -2.8421e+1 -2.8715e+1
-2.9224e+1 -2.9423e+1
```

```
-2.9833e+1 -3.0043e+1 -3.0366e+1 -3.0910e+1 -3.1123e+1 -3.1540e+1 -3.1741e+1 -3.2048e+1
-3.2559e+1 -3.2757e+1
-3.3119e+1 -3.3286e+1 -3.3539e+1 -3.3965e+1 -3.4124e+1 -3.4398e+1 -3.4523e+1 -3.4710e+1
-3.5036e+1 -3.5153e+1
-3.5343e+1 -3.5433e+1 -3.5567e+1 -3.5808e+1 -3.5892e+1 -3.6023e+1 -3.6090e+1 -3.6189e+1
-3.6375e+1 -3.6439e+1
-3.6538e+1 -3.6593e+1 -3.6675e+1 -3.6835e+1 -3.6891e+1 -3.6982e+1 -3.7035e+1 -3.7116e+1
-3.7275e+1 -3.7332e+1
-3.7432e+1 -3.7492e+1 -3.7584e+1 -3.7763e+1 -3.7829e+1 -3.7954e+1 -3.8027e+1 -3.8139e+1
-3.8352e+1 -3.8432e+1
-3.8590e+1 -3.8679e+1 -3.8817e+1 -3.9070e+1 -3.9167e+1 -3.9361e+1 -3.9467e+1 -3.9631e+1
-3.9922e+1 -4.0035e+1
-4.0262e+1 -4.0381e+1 -4.0565e+1 -4.0884e+1 -4.1009e+1 -4.1257e+1 -4.1382e+1 -4.1574e+1
-4.1901e+1 -4.2029e+1
-4.2276e+1 -4.2395e+1 -4.2578e+1 -4.2882e+1 -4.3000e+1 -4.3218e+1 -4.3317e+1 -4.3467e+1
-4.3714e+1 -4.3808e+1
-4.3969e+1 -4.4036e+1 -4.4137e+1 -4.4303e+1 -4.4364e+1 -4.4453e+1 -4.4486e+1 -4.4534e+1
-4.4614e+1 -4.4641e+1
-4.4664e+1 -4.4667e+1 -4.4670e+1 -4.4682e+1 -4.4683e+1
-2.0382e+1 -2.0469e+1 -2.0568e+1 -2.0709e+1 -2.0823e+1 -2.0904e+1 -2.0933e+1 -2.1039e+1
-2.1291e+1 -2.1421e+1
-2.1522e+1 -2.1566e+1 -2.1698e+1 -2.1993e+1 -2.2139e+1 -2.2261e+1 -2.2322e+1 -2.2481e+1
-2.2813e+1 -2.2970e+1
-2.3107e+1 -2.3181e+1 -2.3358e+1 -2.3713e+1 -2.3875e+1 -2.4017e+1 -2.4097e+1 -2.4281e+1
-2.4648e+1 -2.4813e+1
-2.4954e+1 -2.5036e+1 -2.5227e+1 -2.5614e+1 -2.5787e+1 -2.5936e+1 -2.6027e+1 -2.6239e+1
-2.6671e+1 -2.6865e+1
-2.7044e+1 -2.7159e+1 -2.7415e+1 -2.7918e+1 -2.8138e+1 -2.8362e+1 -2.8514e+1 -2.8825e+1
-2.9394e+1 -2.9632e+1
-2.9894e+1 -3.0078e+1 -3.0426e+1 -3.1017e+1 -3.1248e+1 -3.1514e+1 -3.1710e+1 -3.2052e+1
-3.2600e+1 -3.2799e+1
-3.3030e+1 -3.3210e+1 -3.3506e+1 -3.3963e+1 -3.4117e+1 -3.4293e+1 -3.4439e+1 -3.4670e+1
-3.5024e+1 -3.5138e+1
-3.5262e+1 -3.5370e+1 -3.5542e+1 -3.5811e+1 -3.5899e+1 -3.5986e+1 -3.6062e+1 -3.6190e+1
-3.6406e+1 -3.6482e+1
-3.6549e+1 -3.6603e+1 -3.6705e+1 -3.6898e+1 -3.6976e+1 -3.7037e+1 -3.7079e+1 -3.7173e+1
-3.7369e+1 -3.7456e+1
-3.7524e+1 -3.7563e+1 -3.7664e+1 -3.7884e+1 -3.7987e+1 -3.8069e+1 -3.8115e+1 -3.8234e+1
-3.8491e+1 -3.8612e+1
-3.8715e+1 -3.8773e+1 -3.8918e+1 -3.9216e+1 -3.9354e+1 -3.9480e+1 -3.9555e+1 -3.9726e+1
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-4.1988e+1 -4.2135e+1
-4.2293e+1 -4.2401e+1 -4.2600e+1 -4.2928e+1 -4.3053e+1 -4.3193e+1 -4.3291e+1 -4.3460e+1
-4.3723e+1 -4.3815e+1
-4.3918e+1 -4.3993e+1 -4.4113e+1 -4.4289e+1 -4.4344e+1 -4.4402e+1 -4.4445e+1 -4.4508e+1
-4.4595e+1 -4.4618e+1
-4.4634e+1 -4.4645e+1 -4.4657e+1 -4.4665e+1 -4.4674e+1
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-2.1417e+1 -2.1563e+1
-2.1588e+1 -2.1618e+1 -2.1782e+1 -2.2125e+1 -2.2287e+1 -2.2317e+1 -2.2364e+1 -2.2561e+1
-2.2945e+1 -2.3118e+1
-2.3152e+1 -2.3212e+1 -2.3432e+1 -2.3842e+1 -2.4020e+1 -2.4055e+1 -2.4122e+1 -2.4352e+1
-2.4778e+1 -2.4958e+1
-2.4993e+1 -2.5063e+1 -2.5304e+1 -2.5753e+1 -2.5942e+1 -2.5980e+1 -2.6058e+1 -2.6326e+1
-2.6826e+1 -2.7037e+1
-2.7081e+1 -2.7183e+1 -2.7505e+1 -2.8083e+1 -2.8319e+1 -2.8375e+1 -2.8514e+1 -2.8901e+1
-2.9550e+1 -2.9801e+1
-2.9865e+1 -3.0041e+1 -3.0471e+1 -3.1141e+1 -3.1380e+1 -3.1445e+1 -3.1637e+1 -3.2062e+1
-3.2682e+1 -3.2885e+1
-3.2942e+1 -3.3121e+1 -3.3492e+1 -3.4010e+1 -3.4166e+1 -3.4209e+1 -3.4356e+1 -3.4651e+1
-3.5054e+1 -3.5169e+1
-3.5201e+1 -3.5309e+1 -3.5530e+1 -3.5839e+1 -3.5931e+1 -3.5953e+1 -3.6028e+1 -3.6194e+1
-3.6444e+1 -3.6526e+1
-3.6543e+1 -3.6594e+1 -3.6727e+1 -3.6952e+1 -3.7038e+1 -3.7053e+1 -3.7090e+1 -3.7212e+1
-3.7442e+1 -3.7539e+1
```

```
-3.7556e+1 -3.7588e+1 -3.7717e+1 -3.7974e+1 -3.8089e+1 -3.8110e+1 -3.8146e+1 -3.8297e+1
-3.8596e+1 -3.8730e+1
-3.8755e+1 -3.8803e+1 -3.8984e+1 -3.9330e+1 -3.9481e+1 -3.9512e+1 -3.9576e+1 -3.9790e+1
-4.0177e+1 -4.0340e+1
-4.0376e+1 -4.0458e+1 -4.0698e+1 -4.1111e+1 -4.1276e+1 -4.1315e+1 -4.1412e+1 -4.1665e+1
-4.2077e+1 -4.2232e+1
-4.2271e+1 -4.2373e+1 -4.2618e+1 -4.2991e+1 -4.3122e+1 -4.3156e+1 -4.3250e+1 -4.3459e+1
-4.3757e+1 -4.3853e+1
-4.3878e+1 -4.3951e+1 -4.4100e+1 -4.4300e+1 -4.4358e+1 -4.4373e+1 -4.4414e+1 -4.4494e+1
-4.4594e+1 -4.4620e+1
-4.4624e+1 -4.4633e+1 -4.4649e+1 -4.4663e+1 -4.4669e+1
```

1.3 INPUT - OUTPUT CONTROL PACKAGE

```
 0        0        30        31
 0        1         0         1
 1        0         1         1
```

1.4 INPUT - RECHARGE PACKAGE

```
        3        50         0
       18
       181.000        (15G11.4)                    -1 Recharge Period - 1
6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3
6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3
6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3
6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3
6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3
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6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3
6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3
6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3
6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3
6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3
6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3
6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3
6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3
6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3
6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3
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6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3
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6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3
6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3
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6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3
6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3
6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3
6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3
6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3
6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3
6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3
6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3
6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3
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6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3
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6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3
6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3
6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3
6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3
6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3
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6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3
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6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3
6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3
6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3
6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3
6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3
6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3
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6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3
6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3
6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3
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6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3
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6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3
6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3
6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3
6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3
6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3
6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3  6.8493e-3
6.8493e-3  6.8493e-3
```

1.5 INPUT - STRONGLY IMPLICIT PROCEDURE PACKAGE

```
     5000         5
1.00000   1.00000e-2         01.00000e-3        25
```

1.6 OUTPUT

```
1 U.S. GEOLOGICAL SURVEY MODULAR FINITE-DIFFERENCE GROUND-WATER MODEL
0Basic Package translator - (c) 1994 Waterloo Hydrogeologic Software            MADISON.BAS Wed Nov 19 09:23:34 1997
    1 LAYERS        85 ROWS       145 COLUMNS
   1 STRESS PERIOD(S) IN SIMULATION
 MODEL TIME UNIT IS DAYS
0I/O UNITS:
 ELEMENT OF IUNIT:  1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
        I/O UNIT: 11  0  0  0  0  0  0 1 8 1 9  0  0 22  0  0  0  0  0  0  0  0 2 3  0  0
0BAS1 -- BASIC MODEL PACKAGE, VERSION 1, 9/1/87 INPUT READ FROM UNIT  1
 ARRAYS RHS AND BUFF WILL SHARE MEMORY.
 START HEAD WILL BE SAVED
   111159 ELEMENTS IN X ARRAY ARE USED BY BAS
   111159 ELEMENTS OF X ARRAY USED OUT OF 9999999
0BCF2 -- BLOCK-CENTERED FLOW PACKAGE, VERSION 2, 7/1/91 INPUT READ FROM UNIT 11
 STEADY-STATE SIMULATION
 CELL-BY-CELL FLOWS WILL BE RECORDED ON UNIT 50
 HEAD AT CELLS THAT CONVERT TO DRY=  0.10000E+31
 WETTING CAPABILITY IS NOT ACTIVE
      LAYER  AQUIFER TYPE
      -------------------
         1          1
    24651 ELEMENTS IN X ARRAY ARE USED BY BCF
   135810 ELEMENTS OF X ARRAY USED OUT OF 9999999
0RCH1 -- RECHARGE PACKAGE,  VERSION 1, 9/1/87 INPUT READ FROM UNIT 18
 OPTION 3 -- RECHARGE TO HIGHEST ACTIVE NODE IN EACH VERTICAL COLUMN
 CELL-BY-CELL FLOW TERMS WILL BE RECORDED ON UNIT 50
    12325 ELEMENTS OF X ARRAY USED FOR RECHARGE
   148135 ELEMENTS OF X ARRAY USED OUT OF 9999999
0SIP1 -- STRONGLY IMPLICIT PROCEDURE SOLUTION PACKAGE, VERSION 1, 9/1/87 INPUT READ FROM UNIT 19
 MAXIMUM OF5000 ITERATIONS ALLOWED FOR CLOSURE
  5 ITERATION PARAMETERS
    69305 ELEMENTS IN X ARRAY ARE USED BY SIP
   217440 ELEMENTS OF X ARRAY USED OUT OF 9999999
1Basic Package translator - (c) 1994 Waterloo Hydrogeologic Software            MADISON.BAS Wed Nov 19 09:23:34 1997
0


                                  BOUNDARY ARRAY FOR LAYER  1 WILL BE READ ON UNIT  1 USING FORMAT: (40I2)
                         ----------------------------------------------------------------------------------------------
0AQUIFER HEAD WILL BE SET TO 1.00000E+30 AT ALL NO-FLOW NODES (IBOUND=0).
0


                                   INITIAL HEAD FOR LAYER  1 WILL BE READ ON UNIT  1 USING FORMAT:  (10G12.5)
                         ------------------------------------------------------------------------------------------
OHEAD PRINT FORMAT IS FORMAT NUMBER   0    DRAWDOWN PRINT FORMAT IS FORMAT NUMBER   0
OHEADS WILL BE SAVED ON UNIT 30    DRAWDOWNS WILL BE SAVED ON UNIT 31
OOUTPUT CONTROL IS SPECIFIED EVERY TIME STEP
0
```

```
                    COLUMN TO ROW ANISOTROPY WILL BE READ ON UNIT 11 USING FORMAT: (10G11.4)
                    ---------------------------------------------------------------------------

0                                                   DELR =   200.0000
0                                                   DELC =   200.0000
0

                      HYD. COND. ALONG ROWS FOR LAYER  1 WILL BE READ ON UNIT 11 USING FORMAT:  (10G11.4)
                    ---------------------------------------------------------------------------------------
0

                                BOTTOM FOR LAYER  1 WILL BE READ ON UNIT 11 USING FORMAT:  (10G11.4)
                    ---------------------------------------------------------------------------------------
0

                                         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
                                         -------------------------------------------
0                                 MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     5000
                                              ACCELERATION PARAMETER =     1.0000
                                     HEAD CHANGE CRITERION FOR CLOSURE =    0.10000E-01
                                     SIP HEAD CHANGE PRINTOUT INTERVAL =       25
0
   5 ITERATION PARAMETERS CALCULATED FROM SPECIFIED WSEED = 0.00100000 :

         0.0000000E+00  0.8221720E+00  0.9683772E+00  0.9943766E+00  0.9990000E+00
1                                     STRESS PERIOD NO.   1, LENGTH =   3.000000
                                      ---------------------------------------------

                                      NUMBER OF TIME STEPS =     1

                                       MULTIPLIER FOR DELT =     1.000

                                    INITIAL TIME STEP SIZE =   1.000000
0

                                  RECHARGE WILL BE READ ON UNIT 18 USING FORMAT:  (15G11.4)
                    ---------------------------------------------------------------------------
0
   21 ITERATIONS FOR TIME STEP   1 IN STRESS PERIOD  1
OMAXIMUM HEAD CHANGE FOR EACH ITERATION:
0 HEAD CHANGE LAYER,ROW,COL HEAD CHANGE LAYER,ROW,COL HEAD CHANGE LAYER,ROW,COL HEAD CHANGE LAYER,ROW,COL HEAD CHANGE LAYER,ROW,COL
 -----------------------------------------------------------------------------------------------------------------------------------
    11.12      (  1, 63, 17)   5.848      (  1, 61, 18)   6.784      (  1, 57, 22)   10.98      (  1, 57, 31)   8.754      (  1, 39, 69)
   0.6075      (  1, 38, 77) -0.5435      (  1, 45, 78)  -1.037      (  1, 45, 79)   1.708      (  1, 45, 50)   1.101      (  1, 36, 56)
  -0.1225      (  1, 29, 95)  0.1913      (  1, 30, 90) -0.2684      (  1, 46, 51) -0.3099      (  1, 51, 47)  0.1669      (  1, 33, 61)
   0.2439E-01  (  1, 46, 55) -0.3550E-01  (  1, 47, 66)  0.5529E-01  (  1, 52, 47) -0.7057E-01  (  1, 44, 63) -0.5162E-01  (  1, 48, 52)
  -0.5719E-02  (  1, 52, 57)
0
OHEAD/DRAWDOWN PRINTOUT FLAG = 1     TOTAL BUDGET PRINTOUT FLAG = 0     CELL-BY-CELL FLOW TERM FLAG = 1
OOUTPUT FLAGS FOR ALL LAYERS ARE THE SAME:
```

```
  HEAD    DRAWDOWN  HEAD  DRAWDOWN
 PRINTOUT  PRINTOUT  SAVE    SAVE
 ---------------------------------
     1         0       1       1
 "   CONSTANT HEAD" BUDGET VALUES WILL BE SAVED ON UNIT 50 AT END OF TIME STEP  1, STRESS PERIOD  1
 "FLOW RIGHT FACE " BUDGET VALUES WILL BE SAVED ON UNIT 50 AT END OF TIME STEP  1, STRESS PERIOD  1
 "FLOW FRONT FACE " BUDGET VALUES WILL BE SAVED ON UNIT 50 AT END OF TIME STEP  1, STRESS PERIOD  1
         RECHARGE" BUDGET VALUES WILL BE SAVED ON UNIT 50 AT END OF TIME STEP  1, STRESS PERIOD  1

 HEADS AND FLOW TERMS SAVED ON UNIT 23 FOR USE BY MT3D TRANSPORT MODEL
1                     HEAD IN LAYER  1 AT END OF TIME STEP  1 IN STRESS PERIOD  1
          ---------------------------------------------------------------------

           1          2          3          4          5          6          7          8          9         10
          11         12         13         14         15         16         17         18         19         20
          21         22         23         24         25         26         27         28         29         30
          31         32         33         34         35         36         37         38         39         40
          41         42         43         44         45         46         47         48         49         50
          51         52         53         54         55         56         57         58         59         60
          61         62         63         64         65         66         67         68         69         70
          71         72         73         74         75         76         77         78         79         80
          81         82         83         84         85         86         87         88         89         90
          91         92         93         94         95         96         97         98         99        100
         101        102        103        104        105        106        107        108        109        110
         111        112        113        114        115        116        117        118        119        120
         121        122        123        124        125        126        127        128        129        130
         131        132        133        134        135        136        137        138        139        140
         141        142        143        144        145
 ..................................... ..................................................................................
0  1  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
0  2  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
```

```
        1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
        1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
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0  4    1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
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        1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  0.0000       0.0000       0.0000       0.0000       0.0000
        0.0000      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
0  6    1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
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```

	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	0.0000	1.6666E-02	0.0000	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30					
0 7	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	0.0000	0.2869	0.2951	0.2391	0.1423	0.0000	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	0.0000	2.1019E-02	0.0000	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30					
0 8	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.4021	0.4751	0.4046	0.3069	0.1751	0.0000	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	0.0000	2.2123E-02	0.0000	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30					
0 9	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	0.0000	0.0000	0.5012	0.6761	0.7197	0.7056	0.6752	0.6712
	0.6702	0.5854	0.4754	0.3415	0.1831	0.0000	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30

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      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  0.0000
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  0.0000      2.2863E-02  0.0000      1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
0 10  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1 0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
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      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1 0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
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      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1 0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1 0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  0.0000      0.0000      0.6855      .072        1.226       1.240       1.174       1.068       0.9308
      0.7977      0.6579      0.5053      0.3339      0.1580      0.0000      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  0.0000      0.0000      0.0000
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  0.0000      2.5231E-02  0.0000      1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
0 11  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      0.0000      0.0000      0.0000      0.0000      0.0000      0.0000      0.0000      0.0000      0.0000      0.0000
      0.0000      0.0000      0.9177      1.403       1.634       1.684       1.607       1.445       1.239       1.052
      0.8713      0.6800      0.4931      0.3323      0.1617      0.0000      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  0.0000      0.0000      0.0000      0.0000      0.0000      8.8348E-02  7.2457E-02
      0.0000      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  0.0000      1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  0.0000      2.8943E-02  3.4264E-02  0.0000      1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
0 12  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      0.0000      1.087       1.550       1.769       1.873       1.911       1.904       1.870       1.818       1.762
      1.716       1.733       1.972       2.126       2.148       2.044       1.837       1.580       1.350       1.108
      0.8890      0.7005      0.5000      0.3082      0.1249      0.0000      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  0.0000      0.0000
      0.0000      0.0000      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  0.0000      0.2000      0.2716      0.2894      0.2784      0.2539      0.2301      0.1541
      0.0000      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  0.0000      1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  0.0000      3.8037E-02  3.9236E-02  0.0000      1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
0 13  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
```

	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	0.0000
	1.485	2.448	2.999	3.299	3.448	3.496	3.474	3.403	3.297	3.170
	3.035	2.920	2.850	2.744	2.561	2.290	1.975	1.700	1.412	1.149
	0.9250	0.6960	0.4669	0.2439	0.0000	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	0.0000	0.0000	0.0000	0.0000	0.0000	0.2526	0.2976
	0.2301	0.0000	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	0.0000	0.2911	0.4643	0.5384	0.5470	0.5140	0.4538	0.3749	0.2664
	0.1282	0.0000	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	0.0000	0.0000	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	0.0000	4.0842E-02	4.1234E-02	0.0000	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30					
0 14	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	0.0000	0.0000	1.0000E+30	1.0000E+30	0.0000	0.0000	1.859
	3.070	3.877	4.382	4.673	4.813	4.844	4.794	4.678	4.510	4.299
	4.059	3.804	3.531	3.217	2.846	2.458	2.120	1.775	1.468	1.206
	0.9368	0.6630	0.3963	0.1678	0.0000	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	0.0000	0.0000	0.2702	0.4084	0.4908	0.5503	0.6324	0.6316
	0.5479	0.3344	0.0000	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	0.0000	0.3770	0.6250	0.7625	0.8101	0.7898	0.7226	0.6228	0.5017	0.3617
	0.2002	0.0000	0.0000	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	0.0000	1.7138E-02	0.0000
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	0.0000	4.1715E-02	4.1996E-02	0.0000	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30					
0 15	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	0.0000	1.062	1.144	0.0000	0.0000	1.914	2.823	3.854
	4.691	5.300	5.700	5.928	6.024	6.018	5.930	5.763	5.522	5.220
	4.868	4.484	4.042	3.542	3.056	2.649	2.215	1.845	1.548	1.242
	0.9241	0.5927	0.2558	0.0000	0.0000	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	0.0000	0.0000	0.3788	0.5981	0.7963	0.9242	0.9931	1.015	0.9712
	0.9200	0.7114	0.4128	0.0000	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	0.0000
	0.4799	0.8033	0.9971	1.085	1.090	1.028	0.9145	0.7676	0.6035	0.4343
	0.2681	0.1136	0.0000	0.0000	1.0000E+30	1.0000E+30	1.0000E+30	0.0000	2.8041E-02	0.0000
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	0.0000	4.2209E-02	4.2505E-02	0.0000	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30					
0 16	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	0.0000	0.0000	1.737	2.729	3.130	3.149	3.468	4.284	4.990	5.662
	6.233	6.659	6.934	7.076	7.109	7.053	6.926	6.703	6.386	5.984
	5.505	5.017	4.412	3.798	3.300	2.809	2.330	1.927	1.609	1.263
	0.8950	0.4932	0.0000	0.0000	1.0000E+30	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.2740	0.5193	0.8388	1.762	2.383	2.643	2.707	2.589	2.141
	1.371	1.101	0.8572	0.5104	0.0000	1.0000E+30	1.0000E+30	0.0000	0.0000	0.6319

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      1.033      1.278      1.401      1.430      1.382      1.268      1.094      0.8877     0.6709     0.4619
     0.2810     0.1444   4.5987E-02   0.0000   1.0000E+30 1.0000E+30   0.0000   5.6267E-02 5.5063E-02 2.9302E-02
     0.0000   1.0000E+30 1.0000E+30 1.0000E+30   0.0000   4.3144E-02 4.3546E-02   0.0000   1.0000E+30 1.0000E+30
     1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30
0 17 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30
     1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30
     1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30
     1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30
     0.0000   1.0000E+30   0.0000   0.0000   0.0000   0.0000   0.0000   1.0000E+30 1.0000E+30   0.0000
     0.0000      2.280      3.699      4.591      5.119      5.453      5.827      6.327      6.818      7.268
      7.644      7.915      8.068      8.114      8.081      7.954      7.815      7.532      7.136      6.629
      5.963      5.304      4.761      4.092      3.478      2.902      2.430      2.047      1.667      1.276
     0.8706     0.4500     0.0000   1.0000E+30 1.0000E+30   0.0000   9.5510E-02 0.2028     0.3123     0.4063
     0.4532      1.249      2.062      2.840      4.092      4.807      5.157      5.230      5.030      4.467
      3.306      2.342      1.322      1.090     0.6949     0.0000     0.0000     0.7261      1.047      1.391
      1.645      1.787      1.829      1.795      1.692      1.517      1.263      0.9789     0.6914     0.4198
     0.2087   9.7759E-02   0.0000     0.0000   1.0000E+30   0.0000   9.4476E-02 0.1295     0.1059   6.1728E-02
     0.0000   1.0000E+30 1.0000E+30 1.0000E+30   0.0000   4.5371E-02 4.6386E-02   0.0000   1.0000E+30 1.0000E+30
     1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30
0 18 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30
     1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30
     1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30
     1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30   0.0000     0.0000
     0.7233     0.0000      1.635      2.230      2.450      2.399      1.888      0.0000     0.0000      2.388
      3.493      4.729      5.716      6.434      6.941      7.321      7.674      8.030      8.383      8.677
      8.903      9.060      9.094      9.029      8.944      8.672      8.345      8.010      7.559      7.014
      6.374      5.643      4.967      4.266      3.557      2.985      2.556      2.131      1.704      1.270
     0.8327     0.4023     0.0000   1.0000E+30 1.0000E+30   0.0000     0.1217     0.3407     0.5668     0.7696
      1.453      2.941      4.144      5.180      6.146      6.824      7.202      7.302      7.128      6.648
      5.814      4.702      2.952      1.736      1.570      1.347      1.429      1.715      1.940      2.134
      2.266      2.315      2.268      2.173      2.023      1.794      1.420      1.037     0.6587     0.2180
     0.0000     0.0000     0.0000     0.0000     0.0000     0.1324     0.2066     0.2211     0.1760     0.1102
     0.0000   1.0000E+30 1.0000E+30 1.0000E+30   0.0000   5.0786E-02 5.4543E-02   0.0000     0.0000   1.0000E+30
     1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30
0 19 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30
     1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30
     1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30
     1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30   0.0000     0.0000      1.564
      2.486      2.965      3.773      4.331      4.640      4.723      4.565      4.195      4.408      5.310
      6.121      6.917      7.602      8.147      8.567      8.904      9.207      9.487      9.742      9.909
      10.01      10.11      10.02      9.777      9.488      9.169      8.711      8.268      7.712      7.208
      6.570      5.868      5.141      4.389      3.659      3.084      2.649      2.188      1.715      1.237
     0.7571     0.2970     0.0000   1.0000E+30 1.0000E+30   0.0000     0.0000     0.4179     0.7793      1.105
      2.367      4.240      5.713      6.896      7.843      8.520      8.920      9.055      8.935      8.549
      1.879      6.912      5.528      3.620      2.395      2.249      2.493      2.641      2.753      2.841
      2.885      2.864      2.695      2.552      2.377      2.165      1.724      1.054     0.5927     0.0000
     0.0000     0.0000     0.0000     0.0000     0.1594     0.2794     0.3373     0.3322     0.2642     0.1635
     0.0000   1.0000E+30 1.0000E+30 1.0000E+30   0.0000   6.2566E-02 7.9197E-02 5.1128E-02   0.0000   1.0000E+30
     1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30
0 20 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30
     1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30
     1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30
     1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30 1.0000E+30     0.9444      2.050      3.274
```

```
        4.255       5.011       5.709       6.254       6.629       6.852       6.955       7.022       7.281       7.772
        8.307       8.836       9.305       9.690      10.00       10.27       10.52       10.73       10.96       11.00
       10.91       10.78       10.58       10.28       9.860       9.461       9.014       8.535       8.010       7.426
        6.776       6.061       5.285       4.437       3.740       3.233       2.737       2.227       1.705       1.176
       0.6322      0.0000      0.0000      1.0000E+30  1.0000E+30  1.0000E+30  0.0000      0.5067      0.9746      1.412
        3.076       5.338       7.019       8.306       9.285       9.977      10.40       10.56       10.50       10.20
        9.664       8.889       7.837       6.492       4.882       4.056       3.538       3.501       3.498       3.504
        3.504       3.499       3.555       3.432       3.200       2.874       2.402       1.485       0.6238      0.0000
       0.0000      0.0000      0.0000      0.0000      0.3139      0.4474      0.4913      0.4678      0.3828      0.2405
       0.0000      1.0000E+30  1.0000E+30  1.0000E+30  0.0000      7.9970E-02  0.1072      8.2461E-02  0.0000      1.0000E+30
       1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
0 21   1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
       1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
       1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
       1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30       1.889       3.487       4.800
        5.859       6.710       7.418       7.985       8.421       8.747       8.991       9.205       9.470       9.805
       10.17       10.51       10.81       11.06       11.25       11.43       11.66       11.73       11.74       11.64
       11.45       11.15       10.87       10.55       10.17       9.756       9.302       8.807       8.264       7.662
        6.994       6.257       5.448       4.556       3.842       3.341       2.808       2.248       1.673       1.104
       0.5583      0.0000      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  0.0000      0.5991      1.154       1.706
        3.918       6.444       8.213       9.541      10.54       11.24       11.67       11.86       11.84       11.62
       11.20       10.60       9.812       8.863       7.808       6.732       5.602       5.262       5.076       4.954
        4.869       4.817       4.912       4.738       4.415       3.964       3.337       2.452       1.302       0.4029
       0.0000      0.3355      0.4374      0.4913      0.6043      0.6667      0.6743      0.6265      0.5219      0.3784
       0.1867      0.0000      1.0000E+30  0.0000      0.0000      0.1099      0.1460      0.1282      6.9172E-02  0.0000
       1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
0 22   1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
       1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
       1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
       1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30       2.833       4.178       6.200
        7.312       8.205       8.936       9.534      10.02       10.41       10.73       11.00       11.26       11.52
       11.76       11.97       12.13       12.25       12.32       12.33       12.37       12.29       12.11       11.94
       11.73       11.46       11.17       10.84       10.46       10.05       9.590       9.085       8.529       7.915
        7.232       6.475       5.639       4.713       3.976       3.455       2.878       2.254       1.602       0.9740
       0.4681      0.0000      0.0000      1.0000E+30  1.0000E+30  1.0000E+30  0.0000      0.7034      1.302       2.799
        5.496       7.689       9.366      10.66       11.63       12.32       12.75       12.96       12.98       12.82
       12.50       12.04       11.44       10.75       10.06       9.133       8.086       7.576       7.217       6.946
        6.720       6.502       6.290       5.979       5.562       5.028       4.344       3.492       2.487       1.378
       0.7661      0.8512      0.8744      0.8780      0.9072      0.9037      0.8752      0.8045      0.6630      0.4863
       0.2900      0.0000      0.0000      0.0000      9.7444E-02  0.1735      0.1977      0.1724      0.1039      0.0000
       1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
0 23   1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
       1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
       1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
       1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30       3.778       5.655       7.058
        8.166       9.064       9.803      10.41       10.92       11.34       11.69       11.98       12.24       12.45
       12.63       12.77       12.87       12.92       12.91       12.84       12.70       12.58       12.42       12.23
       12.02       11.76       11.46       11.13       10.76       10.34       9.880       9.370       8.808       8.185
        7.493       6.721       5.862       4.908       4.145       3.597       2.968       2.256       1.472       0.6956
       0.3161      8.4335E-02  0.0000      1.0000E+30  1.0000E+30  1.0000E+30  0.0000      0.8721      1.653       4.073
        6.855       8.890      10.44       11.65       12.57       13.23       13.65       13.87       13.91       13.80
       13.56       13.19       12.71       12.16       11.53       10.85       9.979       9.383       8.935       8.572
        8.231       7.902       7.543       7.126       6.630       6.035       5.325       4.497       3.576       2.605
```

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        1.687       1.376       1.286       1.235       1.205       1.164       1.081       0.9581      0.8128      0.6216
       0.4266      0.2325      0.1328      0.0000      0.1764      0.2487      0.2579      0.2165      0.1298      0.0000
       1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
0 24   1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
       1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
       1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
       1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30   4.722       6.281       7.560
        8.608       9.476      10.20       10.80       11.30       11.71       12.06       12.36       12.60       12.80
        12.96       13.09      13.16       13.19       13.17       13.09       12.99       12.86       12.71       12.53
        12.31       12.05      11.75       11.42       11.05       10.64       10.17       9.664       9.100       8.476
        7.780       7.000      6.125       5.147       4.361       3.781       3.108       2.296       1.302      0.0000
       0.0000      0.0000      0.0000      1.0000E+30  0.0000      0.0000      0.0000       1.768       3.675       6.181
        8.337       10.07      11.45       12.54       13.38       13.98       14.38       14.60       14.66       14.57
        14.37       14.10      13.66       13.14       12.54       11.93       11.30       10.77       10.31       9.901
        9.501       9.093      8.652       8.162       7.607       6.966       6.234       5.414       4.522       3.576
        2.566       1.817      1.651       1.568       1.479       1.379       1.268       1.106      0.9337      0.7411
       0.5410      0.3488      0.1755      0.2444      0.3211      0.3467      0.3276      0.2627      0.1536      0.0000
       1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
0 25   1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
       1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
       1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
       1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30   5.667       7.020       8.168
        9.136       9.953      10.64       11.21       11.70       12.10       12.44       12.73       12.96       13.15
        13.29       13.40      13.46       13.48       13.45       13.38       13.28       13.16       13.00       12.82
        12.59       12.34      12.04       11.71       11.35       10.93       10.48       9.971       9.411       8.792
        8.100       7.320      6.439       5.444       4.638       4.048       3.342       2.480       1.391      0.0000
       1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  0.0000      0.3361       1.677       4.076       6.069       8.009
        9.734       11.18      12.38       13.34       14.08       14.62       14.97       15.17       15.22       15.14
        14.93       14.66      14.33       13.84       13.35       12.84       12.33       11.86       11.42       11.00
        10.58       10.13      9.637       9.093       8.491       7.816       7.061       6.234       5.349       4.422
        3.456       2.471      1.927       1.813       1.711       1.562       1.419       1.250       1.060      0.8496
       0.6264      0.4237      0.2996      0.3988      0.4559      0.4490      0.4015      0.3087      0.1752      0.0000
       1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
0 26   1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
       1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
       1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
       1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30   6.611       7.814       8.846
        9.730       10.48      11.12       11.66       12.12       12.50       12.83       13.10       13.31       13.49
        13.62       13.71      13.76       13.77       13.74       13.67       13.58       13.45       13.29       13.10
        12.88       12.62      12.33       12.01       11.64       11.24       10.79       10.29       9.744       9.136
        8.456       7.688      6.816       5.815       4.983       4.388       3.691       2.844       1.730      0.0000
       0.0000      0.0000      0.0000      0.0000      0.0000       1.724       4.121       6.169       7.951       9.573
        11.00       12.22      13.22       14.04       14.68       15.14       15.44       15.59       15.61       15.51
        15.32       15.03      14.76       14.39       13.99       13.57       13.15       12.73       12.33       11.93
        11.51       11.05      10.52       9.934       9.292       8.584       7.803       6.958       6.065       5.137
        4.188       3.243      2.378       1.994       1.884       1.739       1.583       1.401       1.193      0.9555
       0.6718      0.5477      0.5553      0.5800      0.5834      0.5495      0.4782      0.3487      0.1885      0.0000
       1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
0 27   1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
       1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
       1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
       1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30   7.556       8.649       9.575
        10.37       11.05      11.63       12.13       12.55       12.91       13.22       13.47       13.67       13.83
```

	13.94	14.02	14.06	14.06	14.03	13.96	13.86	13.73	13.57	13.38
	13.16	12.91	12.62	12.30	11.95	11.55	11.11	10.63	10.10	9.507
	8.851	8.113	7.272	6.284	5.380	4.801	4.154	3.421	2.589	1.650
	1.328	1.253	1.105	0.9453	2.041	4.308	6.282	8.019	9.561	10.93
	12.12	13.13	13.96	14.64	15.17	15.54	15.76	15.85	15.82	15.68
	15.52	15.33	15.12	14.81	14.48	14.14	13.79	13.43	13.08	12.72
	12.33	11.88	11.32	10.70	10.02	9.275	8.462	7.587	6.668	5.719
	4.750	3.769	2.779	2.207	2.077	1.926	1.758	1.568	1.347	1.094
	0.7959	0.7809	0.7753	0.7644	0.7332	0.6729	0.5704	0.4110	0.2200	0.0000
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30					
0 28	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	4.407	4.722	5.037	5.352	5.666	5.981
	6.296	6.611	6.926	7.241	7.555	7.870	8.185	8.500	9.528	10.34
	11.03	11.64	12.16	12.61	13.00	13.33	13.61	13.83	14.02	14.16
	14.26	14.33	14.36	14.35	14.31	14.24	14.14	14.01	13.85	13.66
	13.44	13.19	12.91	12.60	12.25	11.86	11.44	10.97	10.46	9.900
	9.279	8.589	7.819	6.958	6.003	5.249	4.666	4.052	3.484	2.946
	2.687	2.474	2.129	2.907	4.766	6.543	8.169	9.633	10.94	12.08
	13.07	13.89	14.58	15.13	15.54	15.81	15.95	15.96	15.84	15.65
	15.56	15.44	15.31	15.10	14.82	14.55	14.27	13.98	13.68	13.37
	13.05	12.66	12.06	11.39	10.67	9.891	9.040	8.124	7.160	6.165
	5.164	4.140	3.069	2.423	2.278	2.118	1.944	1.752	1.536	1.279
	0.9200	0.9900	0.9826	0.9487	0.8838	0.8120	0.6764	0.4955	0.2705	0.0000
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30					
0 29	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	5.246	5.688	6.081	6.445	6.790	7.123
	7.446	7.766	8.085	8.404	8.727	9.061	9.425	9.863	10.50	11.13
	11.71	12.23	12.69	13.10	13.44	13.74	13.99	14.20	14.37	14.49
	14.58	14.63	14.65	14.63	14.58	14.51	14.41	14.28	14.12	13.93
	13.72	13.47	13.19	12.89	12.55	12.18	11.77	11.32	10.84	10.31
	9.727	9.094	8.404	7.663	6.885	6.106	5.483	4.934	4.461	4.151
	3.891	3.726	3.976	5.440	6.966	8.429	9.784	11.02	12.11	13.05
	13.86	14.53	15.07	15.50	15.79	15.96	16.01	15.95	15.82	15.65
	15.57	15.45	15.31	15.14	14.94	14.72	14.48	14.23	13.98	13.71
	13.45	13.19	12.73	12.02	11.26	10.44	9.542	8.572	7.547	6.470
	5.441	4.383	3.288	2.639	2.485	2.316	2.137	1.950	1.754	1.549
	1,350	1.274	1.213	1.159	1.060	0.9455	0.7844	0.5774	0.3186	0.0000
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30					
0 30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	6.085	6.599	7.046	7.447	7.815	8.160
	8.492	8.817	9.138	9.457	9.780	10.12	10.49	10.91	11.40	11.90
	12.38	12.82	13.22	13.58	13.89	14.15	14.38	14.56	14.71	14.a2
	14.89	14.93	14.94	14.91	14.85	14.78	14.67	14.54	14.38	14.20
	13.98	13.74	13.47	13.18	12.85	12.49	12.10	11.67	11.22	10.72
	10.18	9.607	8.991	8.349	7.698	7.068	6.510	6.014	5.581	5.221
	4.915	4.677	5.858	7.418	8.780	10.03	11.17	12.20	13.10	13.87
	14.52	15.05	15.46	15.76	15.94	16.01	15.95	15.84	15.77	15.67
	15.57	15.46	15.32	15.15	14.97	14.76	14.54	14.31	14.07	13.82
	13.56	13.30	13.06	12.56	11.79	10.93	9.980	8.948	7.857	6.706
	5.585	4.479	3.410	2.861	2.696	2.515	2.331	2.149	1.969	1.794

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        1.636       1.524       1.435       1.356       1.244       1.083       0.8946      0.6658      0.3813      0.0000
       1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
0 31   1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
       1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
       1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30   6.924       7.478       7.956       8.379       8.760       9.114
        9.452       9.779      10.10       10.41       10.73       11.06       11.41       11.79       12.20       12.61
       13.02       13.40       13.75       14.06       14.33       14.56       14.76       14.92       15.05       15.14
       15.20       15.22       15.22       15.18       15.11       15.04       14.93       14.80       14.64       14.46
       14.25       14.01       13.75       13.46       13.15       12.80       12.43       12.03       11.59       11.13
       10.64       10.11        9.561       8.995       8.433       7.897       7.408       6.967       6.563       6.172
        5.809       6.368       7.867       9.181       10.35       11.41       12.37       13.22       13.96       14.57
       15.07       15.47       15.75       15.93       15.98       15.97       15.87       15.82       15.76       15.67
       15.56       15.45       15.31       15.16       14.98       14.79       14.59       14.37       14.14       13.90
       13.64       13.38       13.11       12.82       12.27       11.38       10.37        9.266       8.111       6.895
        5.669       4.344       3.411       3.118       2.904       2.708       2.517       2.340       2.168       2.005
        1.856       1.735       1.627       1.528       1.396       1.208       1.001       0.7632      0.4951      0.2078
       0.0000      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
0 32   1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
       1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
       1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30   7.762       8.334       8.825       9.256       9.643      10.00
       10.34       10.66       10.97       11.28       11.59       11.91       12.23       12.57       12.93       13.28
       13.62       13.95       14.25       14.52       14.76       14.96       15.13       15.27       15.38       15.45
       15.50       15.51       15.50       15.45       15.39       15.30       15.19       15.05       14.89       14.71
       14.50       14.27       14.02       13.74       13.44       13.11       12.76       12.37       11.96       11.54
       11.09       10.61       10.10        9.594       9.094       8.627       8.205       7.827       7.473       7.042
        7.378       8.510       9.665       10.74       11.72       12.61       13.41       14.10       14.69       15.16
       15.54       15.80       15.96       15.99       15.93       15.90       15.86       15.80       15.73       15.64
       15.54       15.43       15.30       15.15       14.99       14.81       14.61       14.41       14.19       13.95
       13.71       13.44       13.15       12.84       12.49       11.80       10.70        9.526       8.324       7.088
        5.800       4.386       3.486       3.268       3.070       2.879       2.693       2.517       2.349       2.192
        2.047       1.917       1.794       1.664       1.520       1.316       1.096       0.8451      0.5823      0.2937
       0.0000      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
0 33   1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
       1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
       1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30   8.601       9.172       9.660      10.09       10.47       10.82
       11.16       11.47       11.78       12.07       12.37       12.67       12.97       13.28       13.59       13.89
       14.19       14.41       14.73       14.97       15.17       15.35       15.49       15.61       15.70       15.76
       15.79       15.79       15.77       15.72       15.64       15.55       15.43       15.30       15.14       14.95
       14.75       14.52       14.28       14.01       13.72       13.40       13.07       12.72       12.34       11.94
       11.52       11.08       10.61       10.14        9.676       9.266       8.907       8.613       8.407       8.442
        9.310       10.26       11.21       12.09       12.91       13.64       14.29       14.85       15.30       15.66
       15.91       16.05       16.07       15.99       15.91       15.87       15.82       15.76       15.69       15.60
       15.50       15.39       15.26       15.12       14.97       14.80       14.62       14.43       14.22       13.99
       13.75       13.49       13.20       12.86       12.48       11.99       10.98        9.685       8.455       7.209
        5.893       4.457       3.577       3.390       3.206       3.024       2.846       2.673       2.508       2.354
        2.210       2.077       1.952       1.790       1.614       1.403       1.183       0.9311      0.6515      0.3415
       0.0000      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
0 34   1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
       1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30   8.044
        8.320       8.600       8.880       9.160       9.440      10.00       10.47       10.88       11.25       11.59
       11.91       12.22       12.51       12.80       13.08       13.36       13.64       13.92       14.19       14.46
       14.72       14.96       15.19       15.39       15.57       15.72       15.84       15.94       16.01       16.05
       16.07       16.06       16.02       15.97       15.89       15.79       15.67       15.53       15.37       15.19
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      14.98       14.77       14.53       14.21       13.99       13.70       13.38       13.05       12.70       12.33
      11.94       11.53       11.09       10.65       10.19       9.809       9.502       9.268       9.078       9.841
      10.83       11.70       12.51       13.25       13.92       14.52       15.04       15.47       15.81       16.06
      16.20       16.22       16.09       15.91       15.87       15.83       15.77       15.71       15.63       15.55
      15.45       15.34       15.22       15.08       14.94       14.78       14.61       14.43       14.23       14.01
      13.78       13.53       13.25       12.90       12.54       11.87       10.80       9.647       8.470       7.245
      5.935       4.518       3.665       3.492       3.320       3.147       2.976       2.807       2.645       2.492
      2.348       2.213       2.085       1.916       1.706       1.496       1.264       1.003       0.7091      0.3766
     0.0000      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
0 35 1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
     1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  8.765       8.405
      8.992       9.395       9.742       10.07       10.42       10.84       11.25       11.63       11.98       12.31
      12.62       12.91       13.20       13.47       13.73       13.99       14.25       14.50       14.75       14.99
      15.21       15.43       15.62       15.80       15.95       16.07       16.18       16.26       16.31       16.33
      16.34       16.32       16.27       16.21       16.12       16.02       15.89       15.75       15.59       15.41
      15.20       15.00       14.77       14.52       14.26       13.98       13.68       13.37       13.04       12.70
      12.34       11.96       11.54       11.12       10.63       10.24       9.987       9.839       10.28       11.31
      12.17       12.93       13.61       14.22       14.77       15.25       15.65       15.98       16.22       16.36
      16.40       16.32       16.10       15.87       15.82       15.76       15.70       15.64       15.56       15.47
      15.38       15.27       15.16       15.03       14.89       14.74       14.58       14.41       14.22       14.02
      13.80       13.57       13.33       12.91       12.33       11.53       10.56       9.501       8.384       7.199
      5.923       4.559       3.746       3.582       3.417       3.251       3.084       2.919       2.758       2.606
      2.463       2.326       2.192       2.016       1.797       1.574       1.334       1.067       0.7637      0.4123
     0.0000      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
0 36 1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
     1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  9.126       9.352
      9.766       10.17       10.53       10.89       11.24       11.62       11.99       12.34       12.67       12.98
      13.28       13.56       13.83       14.08       14.33       14.58       14.81       15.05       15.27       15.48
      15.68       15.86       16.03       16.18       16.31       16.42       16.50       16.56       16.60       16.61
      16.60       16.56       16.51       16.44       16.34       16.23       16.11       15.96       15.80       15.62
      15.43       15.22       14.99       14.75       14.50       14.24       13.97       13.67       13.37       13.06
      12.75       12.41       11.96       11.63       11.34       10.97       10.84       11.11       11.89       12.65
      13.35       13.97       14.53       15.03       15.47       15.84       16.14       16.37       16.51       16.57
      16.53       16.37       16.07       15.80       15.74       15.68       15.61       15.54       15.47       15.38
      15.29       15.19       15.08       14.96       14.82       14.68       14.53       14.37       14.20       14.01
      13.80       13.58       13.22       12.66       12.01       11.21       10.30       9.288       8.213       7.065
      5.837       4.562       3.823       3.665       3.503       3.340       3.175       3.010       2.847       2.697
      2.556       2.419       2.273       2.087       1.856       1.633       1.391       1.124       0.8242      0.4661
     0.0000      1.0000E+30  1.0000E+30  1.0000E 30   .0000E+30
0 37 1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30   .0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
     1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  9.486       10.03
      10.48       10.88       11.26       11.62       11.98       12.33       12.67       13.00       13.31       13.61
      13.89       14.16       14.41       14.66       14.89       15.12       15.34       15.55       15.74       15.93
      16.11       16.27       16.42       16.54       16.65       16.74       16.81       16.85       16.87       16.87
      16.85       16.80       16.74       16.65       16.55       16.44       16.31       16.17       16.00       15.82
      15.63       15.42       15.20       14.97       14.73       14.49       14.23       13.96       13.67       13.40
      13.14       12.92       12.60       12.32       12.25       12.14       12.23       12.67       13.22       13.80
      14.35       14.85       15.29       15.68       16.01       16.28       16.49       16.63       16.70       16.69
      16.58       16.36       16.00       15.71       15.64       15.57       15.50       15.43       15.36       15.27
      15.19       15.09       14.98       14.86       14.74       14.61       14.47       14.32       14.16       13.99
      13.70       13.34       12.87       12.31       11.65       10.87       9.992       9.022       7.973       6.839
      5.633       4.480       3.906       3.146       3.580       3.414       3.250       3.086       2.927       2.779
      2.644       2.520       2.352       2.133       1.905       1.674       1.431       1.175       0.9005      0.5854
```

	0.2483	0.0000	1.0000E+30	1.0000E+30	1.0000E+30					
0 38	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	9.996	10.29	10.72
	11.15	11.56	11.94	12.30	12.64	12.98	13.30	13.62	13.91	14.19
	14.46	14.71	14.96	15.19	15.41	15.62	15.82	16.01	16.19	16.36
	16.51	16.65	16.78	16.89	16.98	17.05	17.10	17.13	17.14	17.12
	17.08	17.03	16.96	16.88	16.78	16.65	16.51	16.36	16.19	16.01
	15.82	15.60	15.39	15.17	14.94	14.71	14.48	14.24	13.93	13.68
	13.46	13.32	13.26	13.08	13.04	13.21	13.46	13.85	14.29	14.74
	15.16	15.55	15.89	16.18	16.41	16.59	16.71	16.77	16.77	16.70
	16.54	16.28	15.90	15.59	15.51	15.44	15.37	15.30	15.22	15.15
	15.06	14.97	14.87	14.75	14.63	14.51	14.39	14.25	14.00	13.70
	13.32	12.92	12.45	11.89	11.24	10.49	9.644	8.702	7.664	6.515
	5.212	4.284	4.027	3.827	3.641	3.475	3.309	3.145	2.983	2.836
	2.706	2.584	2.414	2.184	1.956	1.725	1.482	1.239	0.9767	0.6864
	0.3672	0.0000	1.0000E+30	1.0000E+30	1.0000E+30					
0 39	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	10.36	10.87	11.34
	11.78	12.18	12.56	12.92	13.25	13.58	13.89	14.18	14.47	14.73
	14.99	15.23	15.46	15.68	15.88	16.08	16.26	16.44	16.60	16.75
	16.88	17.01	17.12	17.21	17.28	17.34	17.38	17.40	17.39	17.37
	17.32	17.26	17.18	17.10	16.99	16.84	16.69	16.54	16.37	16.19
	15.99	15.78	15.56	15.34	15.12	14.91	14.71	14.54	14.39	14.19
	14.02	13.91	13.88	13.84	13.81	14.02	14.31	14.72	15.11	15.47
	15.80	16.09	16.33	16.52	16.66	16.76	16.80	16.78	16.72	16.59
	16.40	16.12	15.75	15.45	15.35	15.27	15.20	15.14	15.07	15.00
	14.92	14.83	14.75	14.63	14.50	14.38	14.16	13.89	13.55	13.21
	12.84	12.43	11.97	11.42	10.79	10.06	9.239	8.320	7.302	6.182
	5.010	4.303	4.084	3.879	3.694	3.518	3.351	3.187	3.025	2.878
	2.746	2.617	2.435	2.199	1.973	1.751	1.529	1.286	1.042	0.7753
	0.4923	0.2090	0.0000	1.0000E+30	1.0000E+30					
0 40	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	11.08	10.72	11.42	11.93
	12.37	12.77	13.14	13.49	13.82	14.13	14.43	14.71	14.98	15.24
	15.48	15.71	15.93	16.13	16.32	16.50	16.67	16.83	16.98	17.11
	17.23	17.34	17.43	17.51	17.57	17.62	17.64	17.65	17.64	17.60
	17.55	17.49	17.38	17.30	17.24	17.20	17.09	16.95	16.78	16.59
	16.38	16.16	15.93	15.71	15.49	15.28	15.10	14.98	14.94	14.85
	14.75	14.67	14.61	14.57	14.60	14.74	15.00	15.39	15.72	16.01
	16.26	16.46	16.61	16.71	16.77	16.77	16.73	16.65	16.52	16.34
	16.12	15.86	15.54	15.31	15.15	15.07	15.01	14.95	14.88	14.04
	14.75	14.66	14.47	14.27	14.10	13.90	13.58	13.29	12.97	12.63
	12.27	11.87	11.41	10.88	10.27	9.564	8.768	7.874	6.872	5.734
	4.846	4.437	4.137	3.898	3.719	3.541	3.375	3.213	3.053	2.904
	2.768	2.632	2.438	2.202	1.982	1.777	1.561	1.331	1.092	0.8404
	0.5772	0.3037	0.0000	1.0000E+30	1.0000E+30					
0 41	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	11.44	11.65	12.09	12.53
	12.94	13.33	13.68	14.02	14.34	14.64	14.93	15.20	15.46	15.71
	15.94	16.15	16.36	16.55	16.73	16.90	17.06	17.20	17.33	17.45
	17.55	17.64	17.72	17.79	17.83	17.88	17.90	17.89	17.87	17.80
	17.76	17.73	17.74	17.68	17.66	17.71	17.64	17.51	17.34	17.13
	16.90	16.65	16.40	16.16	15.94	15.74	15.57	15.49	15.44	15.39

	15.33	15.26	15.30	15.25	15.24	15.34	15.56	15.90	16.17	16.38
	16.55	16.67	16.74	16.75	16.72	16.63	16.51	16.35	16.16	15.93
	15.69	15.43	15.20	15.03	14.85	14.80	14.80	14.73	14.65	14.48
	14.29	14.11	13.81	13.58	13.36	13.14	12.87	12.58	12.28	11.96
	11.61	11.22	10.78	10.27	9.674	8.997	8.229	7.365	6.406	5.396
	4.788	4.486	4.209	3.959	3.734	3.535	3.380	3.224	3.067	2.918
	2.790	2.627	2.409	2.187	1.975	1.777	1.568	1.347	1.116	0.8769
	0.6324	0.3883	0.1577	0.0000	1.0000E+30					
0 42	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	11.80	12.27	12.69	13.09
	13.48	13.84	14.19	14.51	14.82	15.12	15.40	15.66	15.91	16.14
	16.36	16.57	16.76	16.94	17.11	17.27	17.41	17.54	17.65	17.76
	17.85	17.92	18.00	18.05	18.09	18.13	18.15	18.12	18.12	18.18
	18.17	18.19	18.26	18.25	18.26	18.23	18.14	18.00	17.81	17.57
	17.31	17.04	16.76	16.48	16.25	16.07	15.93	15.84	15.84	15.82
	15.81	15.83	15.89	15.86	15.77	15.82	15.98	16.26	16.46	16.60
	16.69	16.73	16.71	16.64	16.51	16.34	16.12	15.88	15.62	15.33
	15.03	14.77	14.57	14.48	14.51	14.48	14.32	14.16	13.98	13.67
	13.43	13.21	12.97	12.74	12.52	12.29	12.04	11.77	11.48	11.18
	10.85	10.48	10.06	9.568	9.004	8.358	7.621	6.783	5.820	5.052
	4.748	4.475	4.224	3.990	3.771	3.552	3.369	3.219	3.060	2.912
	2.784	2.610	2.382	2.163	1.953	1.748	1.548	1.335	1.111	0.8799
	0.6477	0.4199	0.2031	0.0000	1.0000E+30					
0 43	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	12.31	12.52	12.86	13.24	13.61
	13.97	14.32	14.65	14.97	15.27	15.55	15.82	16.08	16.32	16.54
	16.75	16.95	17.13	17.30	17.46	17.60	17.74	17.85	17.95	18.05
	18.13	18.19	18.26	18.31	18.32	18.36	18.40	18.53	18.62	18.74
	18.81	18.84	18.86	18.80	18.76	18.69	18.58	18.42	18.20	17.93
	17.63	17.30	17.01	16.74	16.51	16.35	16.24	16.22	16.29	16.30
	16.31	16.36	16.35	16.29	16.18	16.19	16.28	16.47	16.59	16.66
	16.67	16.63	16.54	16.38	16.15	15.87	15.53	15.21	14.88	14.52
	14.10	13.80	13.60	13.54	13.71	13.63	13.34	13.12	12.91	12.66
	12.43	12.20	11.97	11.75	11.53	11.31	11.08	10.83	10.56	10.28
	9.976	9.632	9.240	8.786	8.260	7.650	6.945	6.152	5.329	4.863
	4.635	4.406	4.185	3.974	3.771	3.573	3.385	3.200	3.027	2.883
	2.757	2.576	2.344	2.128	1.928	1.712	1.502	1.294	1.073	0.8459
	0.6199	0.4012	0.1959	0.0000	1.0000E+30					
0 44	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	12.67	13.02	13.37	13.72	14.08
	14.42	14.75	15.08	15.38	15.68	15.95	16.22	16.47	16.70	16.92
	17.12	17.30	17.47	17.63	17.78	17.92	18.04	18.15	18.24	18.33
	18.40	18.43	18.50	18.56	18.73	18.85	18.95	19.17	19.27	19.34
	19.36	19.39	19.41	19.42	19.37	19.28	19.14	18.95	18.70	18.34
	17.99	17.65	17.33	17.05	16.83	16.66	16.59	16.62	16.72	16.74
	16.73	16.71	16.66	16.57	16.44	16.46	16.49	16.55	16.58	16.57
	16.51	16.39	16.21	15.97	15.64	15.22	14.72	14.32	13.94	13.52
	13.12	12.82	12.57	12.43	12.45	12.34	12.14	11.92	11.71	11.48
	11.26	11.04	10.82	10.61	10.40	10.19	9.977	9.752	9.514	9.259
	8.978	8.670	8.322	7.917	7.440	6.870	6.186	5.373	4.862	4.675
	4.483	4.289	4.097	3.910	3.725	3.544	3.365	3.186	3.001	2.836
	2.713	2.521	2.289	2.076	1.878	1.668	1.451	1.230	1.002	0.7717
	0.5451	0.3307	0.1412	0.0000	1.0000E+30					

0 45	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	13.13	13.48	13.82	14.16	14.49
	14.82	15.15	15.46	15.77	16.05	16.32	16.58	16.83	17.05	17.26
	17.46	17.63	17.78	17.92	18.08	18.22	18.34	18.44	18.49	18.58
	18.67	18.85	19.00	19.12	19.39	19.55	19.68	19.80	19.83	19.85
	19.98	20.05	20.07	20.09	20.00	19.87	19.72	19.51	19.24	18.89
	18.46	18.09	17.73	17.42	17.17	17.00	16.92	16.97	17.00	16.98
	16.94	16.87	16.79	16.68	16.57	16.50	16.46	16.44	16.40	16.32
	16.19	16.00	15.75	15.42	14.99	14.43	13.84	13.45	13.06	12.68
	12.35	11.99	11.64	11.36	11.17	10.98	10.78	10.57	10.35	10.13
	9.922	9.713	9.509	9.308	9.112	8.918	8.724	8.525	8.317	8.093
	7.851	7.588	7.293	6.952	6.542	6.034	5.372	4.778	4.610	4.451
	4.290	4.127	3.963	3.799	3.635	3.470	3.304	3.137	2.966	2.192
	2.628	2.430	2.218	2.007	1.798	1.589	1.367	1.134	0.8952	0.6541
	0.4185	0.1970	0.0000	1.0000E+30	1.0000E+30					
0 46	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	13.58	13.89	14.21	14.53	14.86
	15.19	15.51	15.82	16.11	16.39	16.66	16.92	17.16	17.38	17.59
	17.77	17.93	18.05	18.20	18.35	18.49	18.62	18.73	18.96	19.14
	19.28	19.56	19.69	19.85	20.02	20.17	20.29	20.39	20.49	20.52
	20.70	20.74	20.71	20.63	20.47	20.25	20.13	19.92	19.64	19.29
	18.86	18.50	18.07	17.72	17.44	17.24	17.12	17.13	17.10	17.05
	16.96	16.85	16.72	16.59	16.44	16.31	16.21	16.14	16.04	15.90
	15.72	15.47	15.15	14.74	14.24	13.64	13.12	12.75	12.35	11.92
	11.47	10.99	10.50	10.03	9.714	9.466	9.242	9.027	8.815	8.604
	8.399	8.202	8.009	7.824	7.644	7.471	7.303	1.132	6.958	6.772
	6.577	6.367	6.137	5.876	5.564	5.177	4.666	4.421	4.308	4.186
	4.057	3.923	3.785	3.644	3.500	3.353	3.203	3.047	2.886	2.719
	2.545	2.353	2.148	1.936	1.717	1.483	1.255	1.009	0.7527	0.4905
	0.2373	0.0000	1.0000E+30	1.0000E+30	1.0000E+30					
0 47	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	14.03	14.25	14.54	14.86	15.18
	15.51	15.83	16.13	16.42	16.70	16.97	17.22	17.46	17.68	17.89
	18.08	18.25	18.55	18.80	18.98	19.12	19.27	19.42	19.74	19.94
	20.12	20.27	20.50	20.70	20.85	20.92	21.06	21.15	21.26	21.24
	21.31	21.29	21.19	21.03	20.77	20.54	20.41	20.19	19.90	19.57
	19.18	18.78	18.33	17.95	17.64	17.39	17.21	17.09	17.04	16.93
	16.79	16.63	16.46	16.28	16.09	15.87	15.72	15.65	15.51	15.33
	15.09	14.78	14.40	13.93	13.36	12.70	12.29	11.93	11.52	11.04
	10.49	9.857	9.137	8.377	7.994	7.726	7.495	7.279	7.070	6.868
	6.670	6.480	6.299	6.130	5.972	5.824	5.684	5.548	5.412	5.213
	5.127	4.979	4.826	4.665	4.484	4.263	4.044	4.034	3.971	3.804
	3.785	3.678	3.565	3.447	3.323	3.194	3.059	2.917	2.767	2.607
	2.434	2.246	2.043	1.831	1.607	1.370	1.123	0.8582	0.5775	0.2771
	0.0000	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30					
0 48	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	14.49	14.81	15.16	15.51	15.86
	16.19	16.52	16.83	17.12	17.40	17.66	17.91	18.15	18.37	18.59
	18.80	19.04	19.42	19.68	19.86	19.99	20.17	20.32	20.50	20.64
	20.83	21.12	21.45	21.65	21.77	21.84	21.89	21.92	21.91	21.86
	21.80	21.69	21.53	21.31	21.04	20.75	20.56	20.31	20.01	19.67
	19.30	18.91	18.50	18.12	17.77	17.47	17.22	17.00	16.82	16.62
	16.42	16.21	15.99	15.78	15.56	15.35	15.16	14.99	14.81	14.58

	14.29	13.94	13.51	12.97	12.32	11.70	11.41	11.04.	10.60	10.07
	9.426	8.625	7.612	6.979	6.127	6.492	6.270	6.058	5.853	5.654
	5.461	5.275	5.101	4.941	4,797	4.667	4.549	4.439	4.332	4.224
	4.106	3.998	3.898	3.813	3.728	3.666	3.675	3.658	3.614	3.552
	3.477	3.394	3.304	3.207	3.104	2.992	2.872	2.745	2.609	2.457
	2.290	2.105	1.905	1.693	1.469	1.227	0.9659	0.6870	0.3832	0.0000
	0.0000	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30					
0 49	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	14.94	15.49	15.96	16.38	16.77
	17.13	17.46	17.78	18.07	18.35	18.61	18.86	19.10	19.32	19.54
	19.76	20.00	20.26	20.48	20.66	20.80	20.93	21.07	21.16	21.43
	21.71	22.04	22.28	22.44	22.51	22.54	22.53	22.48	22.40	22.28
	22.13	21.94	21.70	21.43	21.14	20.84	20.56	20.27	19.95	19.60
	19.23	18.83	18.43	18.03	17.65	17.30	16.97	16.67	16.39	16.11
	15.84	15.57	15.30	15.05	14.80	14.57	14.35	14.14	13.91	13.65
	13.33	12.94	12.46	11.87	11.17	10.76	10.45	10.08	9.616	9.051
	8.340	7.404	6.532	6.347	6.136	5.921	5.708	5.500	5.297	5.099
	4.906	4.721	4.548	4.391	4.252	4.132	4.029	3.937	3.849	3.762
	3.671	3.583	3.500	3.426	3.361	3.312	3.290	3.266	3.232	3.188
	3.133	3.071	3.002	2.925	2.840	2.744	2.641	2.530	2.407	2.267
	2.106	1.926	1.731	1.526	1.305	1.060	0.7901	0.5063	0.2309	0.0000
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30					
0 50	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	15.40	16.07	16.63	17.10	17.53
	17.91	18.25	18.58	18.87	19.15	19.41	19.66	19.90	20.12	20.34
	20.56	20.78	21.00	21.19	21.35	21.47	21.57	21.73	21.98	22.33
	22.59	22.81	22.97	23.06	23.08	23.05	22.98	22.86	22.70	22.51
	22.28	22.01	21.70	21.37	21.02	20.69	20.37	20.04	19.70	19.34
	18.96	18.55	18.13	17.71	17.29	16.88	16.48	16.10	15.73	15.38
	15.03	14.70	14.38	14.08	13.80	13.54	13.29	13.06	12.80	12.52
	12.19	11.78	11.26	10.61	9.978	9.724	9.412	9.035	8.574	8.003
	7.297	6.450	5.873	5.683	5.490	5.291	5.088	4.885	4.683	4.483
	4.288	4.102	3.929	3.773	3.638	3.531	3.450	3.383	3.321	3.258
	3.190	3.119	3.050	2.987	2.933	2.892	2.864	2.841	2.817	2.789
	2.753	2.710	2.659	2.600	2.531	2.452	2.365	2.269	2.159	2.030
	1.881	1.711	1.526	1.333	1.121	0.8748	0.5937	0.2821	0.0000	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30					
0 51	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	15.85	16.59	17.20	17.71	18.15
	18.55	18.91	19.23	19.53	19.81	20.07	20.32	20.56	20.78	21.00
	21.21	21.42	21.62	21.79	21.94	22.04	22.25	22.49	22.80	23.06
	23.26	23.41	23.50	23.52	23.48	23.39	23.25	23.06	22.83	22.57
	22.27	21.92	21.53	21.10	20.69	20.32	19.97	19.61	19.25	18.89
	18.50	18.08	17.63	17.17	16.70	16.23	15.76	15.29	14.83	14.39
	13.97	13.57	13.19	12.84	12.52	12.24	11.98	11.73	11.47	11.19
	10.85	10.44	9.919	9.238	8.859	8.587	8.278	7.914	7.471	6.914
	6.215	5.390	5.112	4.965	4.795	4.610	4.417	4.216	4.012	3.807
	3.606	3.418	3.242	3.082	2.946	2.855	2.806	2.775	2.746	2.712
	2.666	2.610	2.549	2.494	2.448	2.414	2.390	2.373	2.361	2.350
	2.334	2.311	2.277	2.234	2.180	2.117	2.045	1.961	1.864	1.751
	1.616	1.462	1.293	1.118	0.9249	0.6825	0.3951	0.0000	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30					
0 52	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30

	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	16.31	17.06	17.68	18.21	18.67
	19.08	19.44	19.77	20.06	20.34	20.60	20.85	21.08	21.31	21.52
	21.73	21.93	22.12	22.30	22.45	22.65	22.95	23.20	23.43	23.62
	23.76	23.84	23.86	23.83	23.73	23.58	23.37	23.10	22.79	22.47
	22.10	21.67	21.17	20.60	20.11	19.70	19.37	18.95	18.58	18.25
	17.84	17.40	16.92	16.41	15.89	15.34	14.79	14.23	13.68	13.14
	12.63	12.16	11.71	11.30	10.95	10.64	10.38	10.13	9.884	9.618
	9.312	8.933	8.429	7.852	7.599	7.321	7.028	6.701	6.305	5.788
	5.071	4.378	4.332	4.214	4.062	3.889	3.700	3.497	3.287	3.073
	2.861	2.668	2.486	2.311	2.154	2.083	2.093	2.115	2.128	2.129
	2.107	2.060	1.998	1.944	1.906	1.880	1.864	1.857	1.859	1.870
	1.878	1.876	1.860	1.831	1.790	1.742	1.682	1.610	1.529	1.438
	1.324	1.190	1.031	0.8827	0.7342	0.5443	0.3219	8.8586E-02	0.0000	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30					
0 53	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	16.76	17.48	18.09	18.62	19.08
	19.49	19.85	20.18	20.47	20.75	21.00	21.25	21.48	21.71	21.92
	22.13	22.33	22.52	22.69	22.86	23.17	23.46	23.69	23.87	24.00
	24.08	24.11	24.07	23.98	23.82	23.61	23.33	22.98	22.55	22.21
	21.77	21.26	20.67	20.00	19.44	18.98	18.63	18.25	17.86	17.45
	17.01	16.52	16.00	15.44	14.85	14.23	13.58	12.91	12.24	11.60
	10.99	10.43	9.894	9.408	9.013	8.699	8.443	8.219	8.003	7.778
	7.526	7.232	6.890	6.621	6.187	5.888	5.631	5.374	5.078	4.681
	4.130	3.682	3.568	3.445	3.302	3.135	2.943	2.733	2.513	2.282
	2.046	1.852	1.669	1.460	1.215	1.170	1.312	1.411	1.473	1.521
	1.525	1.478	1.390	1.334	1.310	1.293	1.285	1.288	1.308	1.354
	1.392	1.414	1.415	1.398	1.370	1.333	1.284	1.216	1.155	1.099
	1.014	0.9032	0.7726	0.6577	0.5511	0.4092	0.2298	0.0000	0.0000	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30					
0 54	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	17.22	17.83	18.42	18.94	19.39
	19.80	20.15	20.47	20.76	21.03	21.28	21.52	21.76	21.98	22.20
	22.41	22.61	22.80	22.98	23.24	23.56	23.81	23.99	24.13	24.21
	24.24	24.21	24.12	23.97	23.76	23.49	23.15	22.73	22.22	21.81
	21.30	20.70	20.01	19.27	18.65	18.12	17.69	17.32	16.91	16.46
	15.98	15.45	14.88	14.26	13.60	12.89	12.12	11.32	10.49	9.702
	8.998	8.345	7.699	7.075	6.642	6.345	6.125	5.944	5.779	5.612
	5.431	5.234	5.029	4.874	4.436	4.211	4.034	3.890	3.766	3.541
	3.174	2.864	2.757	2.644	2.513	2.350	2.151	1.920	1.695	1.439
	1.131	0.9672	0.8205	0.5850	0.0000	0.0000	0.5152	0.6908	0.7820	0.9106
	0.9472	0.8887	0.7446	0.6876	0.6642	0.6527	0.6504	0.6599	0.6952	0.8099
	0.8857	0.9351	0.9502	0.9443	0.9275	0.9006	0.8664	0.8167	0.7766	0.7357
	0.6787	0.5987	0.5142	0.4399	0.3786	0.2840	0.1588	0.0000	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30					
0 55	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	17.35	18.05	18.65	19.17	19.61
	20.00	20.35	20.66	20.94	21.20	21.44	21.68	21.91	22.13	22.36
	22.57	22.78	22.98	23.23	23.52	23.77	23.97	24.12	24.21	24.24
	24.22	24.14	24.01	23.81	23.55	23.22	22.82	22.35	21.78	21.29
	20.70	19.99	19.17	18.41	17.74	17.16	16.65	16.19	15.76	15.27
	14.74	14.17	13.54	12.87	12.13	11.32	10.41	9.424	8.377	7.372
	6.586	5.880	5.086	4.121	3.704	3.485	3.344	3.237	3.143	3.051
	2.953	2.848	2.733	2.592	2.375	2.259	2.181	2.171	2.356	2,352

	2.169	1.971	1.891	1.804	1.696	1.547	1.333	1.041	0.8461	0.5870
	0.0000	0.0000	0.0000	0.0000	1.0000E+30	1.0000E+30	0.0000	0.0000	0.0000	0.3443
	0.4189	0.3386	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3060
	0.4111	0.4522	0.4660	0.4673	0.4599	0.4459	0.4273	0.4057	0.3892	0.3726
	0.3542	0.3012	0.2571	0.2256	0.2160	0.1608	8.8625E-02	0.0000	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E 30	1.0000E+30					
0 56	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E 30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E 30	1.0000E+30	17.49	18.21	18.81	19.31	19.74
	20.11	20.44	20.73	21.00	21.24	21.48	21.71	21.94	22.17	22.40
	22.62	22.84	23.09	23.37	23.61	23.81	23.96	24.06	24.10	24.10
	24.03	23.91	23.73	23.48	23.18	22.80	22.35	21.83	21.24	20.64
	19.95	19.16	18.25	17.43	16.71	16.09	15.55	14.99	14.43	13.87
	13.28	12.66,	11.99	11.26	10.44	9.521	8.463	7.232	5.826	4.378
	3.648	3.054	2.168	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.9271	1.148
	1.116	1.017	0.9738	0.9240	0.8568	0.7487	0.5344	0.0000	0.0000	0.0000
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	0.0000
	0.0000	0.0000	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	6.8664E-02	5.7219E-02	0.0000	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30					
0 57	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	17.62	18.33	18.91	19.38	19.79
	20.13	20.43	20.70	20.94	21.17	21.39	21.61	21.84	22.07	22.32
	22.56	22.81	23.08	23.30	23.50	23.65	23.76	23.81	23.82	23.77
	23.67	23.50	23.28	22.99	22.64	22.21	21.70	21.12	20.49	19.81
	19.05	18.19	17.20	16.32	15.55	14.90	14.22	13.51	12.85	12.20
	11.56	10.90	10.22	9.431	8.535	7.517	6.315	4.800	2.820	0.0000
	0.0000	0.0000	0.0000	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	0.0000	0.0000	0.0000	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30					
0 58	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	17.76	18.42	18.95	19.38	19.74
	20.05	20.32	20.55	20.77	20.97	21.17	21.38	21.60	21.85	22.11
	22.38	22.62	22.85	23.04	23.19	23.30	23.37	23.38	23.35	23.26
	23.11	22.91	22.64	22.31	21.91	21.42	20.85	20.21	19.52	18.79
	17.98	17.06	16.01	15.07	14.22	13.48	12.62	11.68	10.94	10.23
	9.531	8.849	8.233	7.373	6.396	5.324	4.072	2.352	0.0000	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30					
0 59	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	17.89	18.48	18.94	19.31	19.62

```
        19.87       20.10       20.29       20.48       20.65       20.82       21.00       21.21       21.49       21.76
        22.00       22.22       22.41       22.57       22.68       22.75       22.78       22.76       22.68       22.55
        22.36       22.10       21.79       21.42       20.96       20.41       19.76       19.04       18.30       17.53
        16.69       15.76       14.68       13.67       12.74       11.87       10.80       9.928       9.244       8.516
        7.762       7.020       6.150       5.063       3.960       2.904       1.856       0.0000      1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
0 60  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  18.02       18.50       18.87       19.16       19.39
        19.59       19.76       19.92       20.06       20.19       20.32       20.46       20.62       20.90       21.15
        21.38       21.59       21.76       21.89       21.97       22.01       21.99       21.93       21.81       21.63
        21.38       21.08       20.71       20.28       19.76       19.14       18.41       17.57       16.80       16.01
        15.17       14.29       13.21       12.17       11.14       10.11       9.259       8.691       8.003       7.235
        6.391       5.447       4.262       3.052       1.794       0.0000      0.0000      1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
0 61  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  18.16       18.49       18.73       18.92       19.07
        19.20       19.31       19.41       19.51       19.60       19.68       19.77       19.86       19.97       20.29
        20.54       20.75       20.90       21.00       21.05       21.05       21.00       20.89       20.72       20.47
        20.17       19.80       19.38       18.88       18.30       17.62       16.84       15.96       15.24       14.47
        13.62       12.70       11.65       10.61       9.467       8.606       8.056       7.418       6.687       5.859
        4.926       3.901       2.804       1.526       0.0000      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
0 62  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  18.29       18.42       18.50       18.56       18.62
        18.67       18.72       18.77       18.82       18.86       18.90       18.94       18.96       18.95       19.22
        19.49       19.68       19.82       19.89       19.91       19.88       19.78       19.63       19.39       19.08
        18.70       18.26       17.76       17.21       16.58       15.86       15.04       14.11       13.40       12.64
        11.80       10.87       9.769       8.806       7.953       7.399       6.774       6.076       5.293       4.388
        3.339       2.203       1,307       0.0000      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
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	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30					
0 63	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	18.43	18.26	18.14	18.07	18.03
	18.01	17.99	17.99	17.98	17.98	17.97	17.96	17.95	17.92	17.94
	18.22	18.40	18.51	18.55	18.54	18.47	18.34	18.13	17.84	17.45
	16.97	16.41	15.85	15.24	14.58	13.84	13.00	11.98	11.21	10.48
	9.711	8.849	7.989	7.321	6.735	6.093	5.389	4.645	3.827	2.846
	1.610	0.0000	0.0000	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30					
0 64	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	18.56	17.91	17.59	17.40	17.27
	17.18	17.10	17.04	16.99	16.94	16.89	16.84	16.78	16.69	16.55
	16.74	16.89	16.96	16.96	16.91	16.81	16.64	16.40	16.04	15.55
	14.97	14.19	13.56	12.94	12.28	11.56	10.73	9.881	9.240	8.589
	7.932	7.268	6.701	6.061	5.395	4.663	3.853	3.096	2.324	1.344
	0.0000	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30					
0 65	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	17.40	17.06	16.76	16.52	16.32
	16.16	16.03	15.92	15.82	15.73	15.65	15.56	15.46	15.34	15.20
	15.04	15.14	15.13	15.08	14.99	14.86	14.67	14.40	14.00	13.34
	12.73	12.09	11.53	10.92	10.28	9.623	8.928	8.324	7.719	7.126
	6.526	5.908	5.294	4.643	3.934	3.093	2.036	1.342	0.8348	0.0000
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30					
0 66	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	16.24	15.99	15.69	15.41	15.16
	14.94	14.75	14.59	14.45	14.33	14.21	14.10	13.97	13.81	13.61

	13.27	13.12	12.97	12.85	12.72	12.57	12.38	12.13	11.77	11.32
	10.93	10.56	10.00	9.345	8.730	8.100	7.394	6.539	5.968	5.441
	4.892	4.315	3.718	3.087	2.388	1.486	0.5266	0.0000	0.0000	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30					
0 67	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	15.08	14.78	14.42	14.08	13.76
	13.49	13.25	13.05	12.87	12.71	12.57	12.43	12.29	12.13	11.92
	11.64	11.26	11.03	10.87	10.72	10.57	10.39	10.19	9.963	9.804
	9.472	9.010	8.339	7.478	6.930	6.409	5.778	5.105	4.710	4.254
	3.746	3.203	2.630	2.036	1.411	0.7364	0.0000	0.0000	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30					
0 68	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	13.92	13.43	12.94	12.50	12.11
	11.77	11.48	11.23	11.02	10.84	10.68	10.53	10.39	10.23	10.06
	9.855	9.624	9.438	9.284	9.144	9.002	8.845	8.667	8.468	8.248
	7.924	7.430	6.605	5.964	5.643	5.287	4.917	4.600	4.216	3.771
	3.277	2.742	2.177	1.597	1.011	0.4476	0.0000	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30					
0 69	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	12.76	11.85	11.16	10.61	10.14
	9.743	9.401	9.109	8.862	8.655	8.483	8.334	8.203	8.079	7.953
	7.819	7.680	7.552	7.435	7.320	7.200	7.070	6.923	6.758	6.565
	6.312	5.938	5.501	5.358	5.109	4.807	4.473	4.125	3.735	3.296
	2.807	2.270	1.699	1.118	0.5435	0.0000	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30

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      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
0 70  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30   11.60       10.58       9.823       9.215       8.708
       8.275       7.902       7.585       7.318       7.100       6.924       6.781       6.664       6.564       6.474
       6.387       6.299       6.212       6.124       6.032       5.932       5.821       5.698       5.561       5.408
       5.239       5.070       4.970       4.809       4.584       4.310       3.995       3.648       3.261       2.828
       2.337       1.784       1.186      0.5867      0.0000      0.0000      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
0 71  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30   10.44       9.717       9.058       8.482       7.982
       7.545       7.167       6.845       6.575       6.356       6.184       6.053       5.953       5.873       5.804
       5.739       5.675       5.607       5.535       5.456       5.368       5.269       5.158       5.035       4.899
       4.750       4.597       4.451       4.214       4.057       3.797       3.499       3.166       2.792       2.368
       1.873       1.294      0.6313      0.0000      0.0000      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
0 72  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30   9.280       8.712       8.140       7.604       7.118
       6.686       6.310       5.986       5.714       5.496       5.335       5.227       5.156       5.106       5.066
       5.030       4.992       4.947       4.894       4.832       4.758       4.674       4.577       4.467       4.346
       4.212       4.068       3.911       3.730       3.517       3.270       2.992       2.680       2.328       1.922
       1.438      0.8388      0.0000      0.0000      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
0 73  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30   8.120       7.629       7.107       6.595       6.119
       5.695       5.324       5.000       4.721       4.498       4.358       4.292,      4.266       4.257       4.256
       4.257       4.252       4.235       4.204       4.159       4.102       4.033       3.952       3.858       3.753
```

```
        3.635       3.500       3.345       3.167       2.960       2.729       2.473       2.189       1.870       1.502
        1.073      0.5739      0.0000   1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
     1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
     1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
     1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
     1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
     1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
     1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
     1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
     1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
0 74 1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
     1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30       6.960       6.490       5.975       5.460       4.979
        4.565       4.206       3.883       3.583       3.329       3.217       3.235       3.281       3.326       3.372
        3.422       3.457       3.471       3.464       3.438       3.398       3.346       3.281       3.206       3.121
        3.021       2.899       2.752       2.579       2.381       2.163       1.933       1.687       1.412       1.096
       0.7314      0.3382      0.0000   1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
     1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
     1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
     1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
     1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
     1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
     1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
     1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
     1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
0 75 1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
     1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30       5.800       5.295       4.740       4.187       3.669
        3.272       2.946       2.638       2.295       1.907       1.835       2.051       2.206       2.309       2.405
        2.524       2.611       2.659       2.675       2.667       2.643       2.606       2.559       2.506       2.445
        2.372       2.267       2.128       1.962       1.769       1.554       1.357       1.162      0.9475      0.6920
       0.3692      0.0000   1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
     1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
     1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
     1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
     1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
     1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
     1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
     1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
     1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
0 76 1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
     1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30       4.640       4.038       3.386       2.756       2.101
        1.771       1.542       1.310      0.9329      0.0000      0.0000      0.8135       1.083       1.206       1.324
        1.572       1.727       1.805       1.837       1.842       1.829       1.807       1.778       1.748       1.719
        1.689       1.609       1.475       1.318       1.119      0.8652      0.7212      0.6036      0.4768      0.3053
       0.0000   1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
     1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
     1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
     1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
     1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
     1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
     1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
     1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
```

	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30					
0 77	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	3.480	2.709	1.870	1.199	0.0000
	0.0000	0.0000	0.0000	0.0000	1.0000E+30	1.0000E+30	0.0000	0.0000	0.0000	0.0000
	0.6243	0.8380	0.9183	0.9481	0.9555	0.9508	0.9411	0.9287	0.9191	0.9258
	0.9919	0.9455	0.7847	0.6552	0.4585	0.0000	0.0000	0.0000	0.0000	0.0000
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30					
0 78	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	2.320	1.302	0.0000	0.0000	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.3472	0.3371	0.0000	0.0000	0.0000	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30					
0 79	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.160	0.0000	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	0.0000	0.0000	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30					
0 80	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30
	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30	1.0000E+30

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        1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
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        1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
0 81    1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
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        1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
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        1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
0 82    1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
        1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
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        1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
        1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
        1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
        1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
        1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
        1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
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        1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
0 83    1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
        1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
        1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
        1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
        1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
        1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
        1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
        1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
        1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
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        1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
        1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
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      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
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      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
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      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
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      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
0 85  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
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      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
      1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30  1.0000E+30
OHEAD WILL BE SAVED ON UNIT 30 AT END OF TIME STEP  1, STRESS PERIOD  1
ODRAWDOWN WILL BE SAVED ON UNIT 31 AT END OF TIME STEP  1, STRESS PERIOD  1
0

                    VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP  1 IN STRESS PERIOD  1
                    ------------------------------------------------------------------------------
0                CUMULATIVE VOLUMES      L**3                                RATES FOR THIS TIME STEP      L**3/T
                 ------------------                                          ------------------------

                      IN:                                                          IN:

                         STORAGE =   0.00000                                       STORAGE =   0.00000
                  CONSTANT HEAD =     42331.                                   CONSTANT HEAD =     42331.
                        RECHARGE =   0.14349E+07                                   RECHARGE =   0.14349E+07
0                       TOTAL IN =   0.14772E+07                                   TOTAL IN =   0.14772E+07
0                     OUT:                                                         OUT:

                         STORAGE =   0.00000                                       STORAGE =   0.00000
                  CONSTANT HEAD =   0.14764E+07                                   CONSTANT HEAD =   0.14764E+07
                        RECHARGE =   0.00000                                       RECHARGE =   0.00000
```

```
0                    TOTAL OUT =   0.14764E+07                                    TOTAL OUT =   0.14764E+07
0                     IN - OUT =    771.88                                       IN - OUT =    771.00
0            PERCENT DISCREPANCY =              0.05                   PERCENT DISCREPANCY =              0.05


0

        TIME SUMMARY AT END OF TIME STEP  1 IN STRESS PERIOD  1
                            SECONDS        MINUTES         HOURS          DAYS           YEARS
                        ---------------------------------------------------------------------------
     TIME STEP LENGTH        86400.0        1440.00        24.0000        1.00000       0.273785E-02
   STRESS PERIOD TIME        06400.0        1440.00        24.0000        1.00000       0.273785E-02
 TOTAL SIMULATION TIME       86400.0        1440.00        24.0000        1.00000       0.273785E-02
1
```