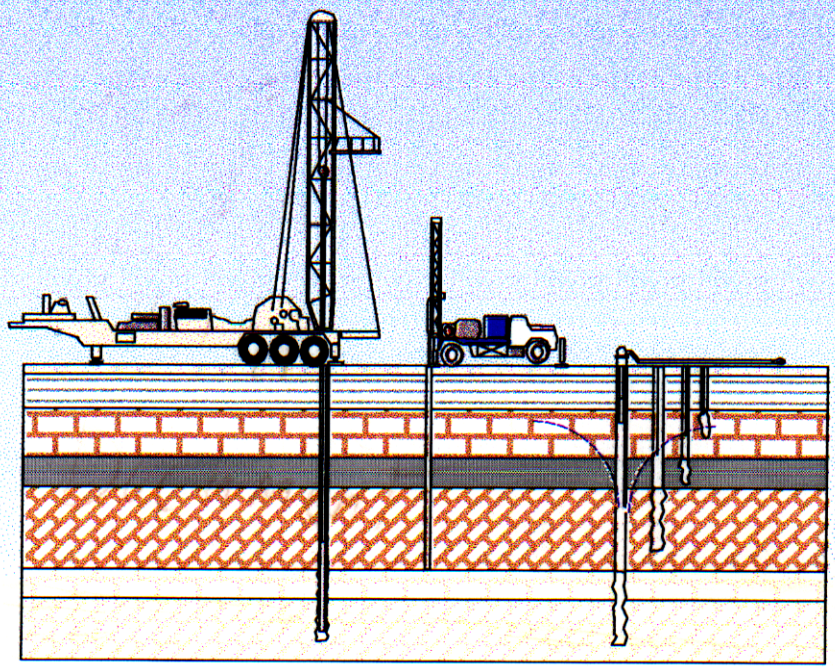
ROMP 5 CECIL WEBB
MONITOR WELL SITE
CHARLOTTE COUNTY, FLORIDA

VOLUMES THREE AND FOUR

MONITOR WELL CONSTRUCTION AND AQUIFER PERFORMANCE TESTING



Geohydrologic Data Section
Resource Data Department
Southwest Florida Water Management District
September 1997

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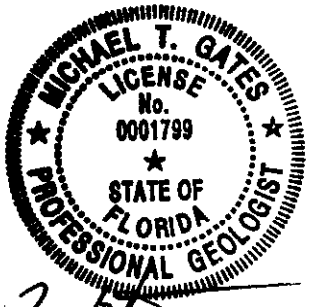
The geological evaluations and interpretations contained in the *ROMP 5 Monitor Well Construction and Aquifer Performance Testing Report* have been prepared by or approved by a Certified Professional Geologist in the State of Florida, in accordance with Chapter 492, Florida Statutes.



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1.0 INTRODUCTION

The ROMP 5 (WRAP S-2) Cecil Webb well site is one of six Regional Observation and Monitor-Well Program (ROMP) well sites constructed for the Southern District Water Resource Assessment Project (SDWRAP). The SDWRAP is a long-term study of the ground-water systems in DeSoto County, Hardee County, and portions of Charlotte, Polk, and Sarasota Counties (Figure 1).

The ROMP 5 Well Site was obtained by the Southwest Florida Water Management District (SWFWMD) in December 1992 for construction of a multiple well monitor site. Drilling, testing, and monitor well construction at ROMP 5 was planned in several phases. The data collected during these phases is presented as a four volume report: Volume One - **Core Drilling and Testing**, Volume Two - **Exploratory Drilling and Testing**, Volumes Three and Four - **Monitor Well Construction and Aquifer Performance Testing**.

The first phase, exploratory coring from land surface to 1,304 feet below land surface (bls), began June 1993 and was completed in December 1993. The next phase of work, deep exploratory drilling (below 1,304 ft bls) and testing and monitor well construction was initiated in February 1995. The exploratory drilling and testing was completed in June 1996 and monitor well construction was completed in September 1996. The last phase of work at ROMP 5, aquifer performance testing, began in January 1997 and was completed in April 1997. This report, **Volumes Three and Four - Monitor Well Construction and Aquifer Performance Testing**, presents the well construction information and the hydraulic data collected during the aquifer performance tests.

2.0 SITE LOCATION

The ROMP 5 (WRAP S-2) Cecil Webb well site is located in Charlotte County, on the south side of Highway 74 (Figure 2). ROMP 5 is located within the Cecil M. Webb Wildlife Management Area in the northwest quarter of the northwest quarter of Section 3, Township 41 South, Range 25 East at latitude 26° 56' 44" , longitude 81° 48' 29" (Figure 3). Land surface elevation at the well site is 40 ft above the National Geodetic Vertical Datum of 1929 (NGVD).

3.0 MONITOR WELL CONSTRUCTION

Drilling and construction of six permanent monitor wells at the ROMP 5 Cecil Webb Monitor Well Site began in March 1996 and was completed in July 1996. All permanent monitor wells were drilled by the District contractor, Diversified Drilling, Inc., using a Speedstar 25 drilling rig. Mud- rotary and reverse-air methods of drilling were utilized to construct the monitor wells.

Permanent monitor wells constructed include: a 12-inch diameter surficial aquifer monitor well (MW-1), an 8-inch diameter upper permeable zone intermediate aquifer system monitor well (MW-2), a 12-inch diameter lower permeable zone intermediate aquifer system monitor well (MW-3), a 12-inch diameter Suwannee Limestone/Upper Floridan aquifer monitor well (MW-4), a 4-inch diameter surficial aquifer permanent observation well (MW-5), and a 6-inch diameter Avon Park Formation/Upper Floridan aquifer monitor well (MW-6). The Avon Park well construction was begun with the SWFWMD owned SS 40 drilling rig in 1995, and was later modified by the District contractor, Diversified Drilling, Inc in 1996.

Two temporary observation wells were previously constructed at the ROMP 5 site by the District-owned CME 75 drilling rig. The upper permeable zone intermediate aquifer system observation well and the Suwannee/Upper Floridan observation well, are presented in Figures 4 and 5, respectively. Well construction details for the monitor wells are presented in Table 1. Figure 6 presents a diagram of the hydrogeology of the ROMP 5 well site.

3.1 Surficial Aquifer Monitor Well

A 22-inch diameter borehole was drilled from land surface to 85 feet bls using the mud-rotary drilling method. Following drilling to 85 feet bls, clean water was flushed through the drill rods to clean the mudded hole and the drill rods were removed. Eighty feet of 12-inch diameter schedule 40 poly-vinyl chloride (PVC) .020 well screen (85 to 5 feet bls) and seven feet of 12-inch diameter schedule 40 PVC casing (5 feet bls to 2 feet above land surface) (als) was installed to the bottom of the borehole. A 6-20 grain size silica sand pack was installed in the annulus from 85 feet bls to 2.5 feet bls. Portland cement was installed from 2.5 feet bls to land surface. The well was developed using a mechanical surging device and airlifted until the water appeared clear. The well was capped with a 12-inch diameter PVC cap and an

18-inch locking steel cover was constructed around the well. Figure 7 presents the as-built diagram for the surficial aquifer monitor well (MW-1).

3.2 Upper Permeable Zone Intermediate Aquifer System Monitor Well

A 17.5-inch diameter borehole was drilled from land surface to 60 feet bls using the mud-rotary drilling method. Sixty-one feet of 12-inch diameter welded steel casing was installed to the bottom of the borehole. The casing was pressure grouted in place using the casing method of grouting (formerly known as the Haliburton method) (Driscoll, 1986). An 11.5-inch drill bit was installed into the 12-inch casing and mud-rotary drilling resumed from 60 feet bls to 230 feet bls. After flushing the hole with clean water, 100 feet of schedule 40 PVC .020-inch slotted well screen (230 to 130 feet bls) and 133 feet of schedule 40 PVC casing (130 feet bls to 3 feet als) was installed to the bottom of the borehole. A 6-20 grain sand pack was installed in the annulus from 230 feet bls to 126 feet bls. Bentonite pellets were installed from 126 feet bls to 118 feet bls to form a grout seal above the sand. Portland cement grout slurry was installed from 118 feet bls to land surface using the tremie method of grouting. The well was developed by airlifting. An eight-inch PVC cap was installed on the casing and an 18-inch diameter locking steel cover was constructed around the well. Figure 8 presents the as-built diagram for the upper permeable zone intermediate aquifer monitor well (MW-2).

3.3 Lower Permeable Zone Intermediate Aquifer System Monitor Well

The potentiometric surface of the lower permeable zone of the intermediate aquifer system is above land surface at ROMP 5. The mud-rotary method of drilling was used to keep the well from flowing while drilling and constructing the well. A 23.5-inch diameter borehole was drilled from land surface to 65 feet bls using the mud-rotary drilling method. Sixty-five feet of 18-inch diameter welded steel casing was installed to the bottom of the borehole. The casing was pressure grouted in place using the casing method of grouting. Following grouting, a 17.5-inch bit was installed into the 18-inch casing and mud-rotary drilling resumed from 65 feet bls to 440 feet bls. Twelve-inch diameter welded steel casing was installed from 440 feet bls to 0.5 feet als. The 12-inch casing was pressure grouted in place using the casing method of grouting. Following grouting, an 11.5-inch drill bit was installed into the 12-inch casing and drilling resumed from 440 feet bls to 565 feet bls using the mud-rotary method. The reverse-air method of drilling was used for drilling from 565 feet bls to 600 feet bls. The well was developed using the airlifting method until all drilling mud was flushed from the well. Head levels in the well rose to approximately 10 feet als

after the drilling mud was flushed from the well. A 12-inch x 8-inch diameter steel tee was installed on top of the 12-inch steel casing to stop the flow of water from the well. Figure 9 presents the as-built diagram for the Lower Permeable Zone Intermediate Aquifer System monitor well (MW-3).

3.4 Suwannee Limestone/Upper Floridan Aquifer Monitor Well

The potentiometric surface of the Upper Floridan Aquifer is above land surface at ROMP 5. The mud-rotary method of drilling was used to keep the well from flowing while constructing the well. A 23.5-inch diameter borehole was drilled from land surface to 65 feet bls using the mud-rotary drilling method. Sixty-five feet of 18-inch diameter welded steel casing was installed to the bottom of the borehole. The casing was pressure grouted in place using the casing method of grouting. A 17.5-inch bit was installed into the 18-inch casing and mud-rotary drilling resumed from 65 feet bls to 720 feet bls. Twelve-inch diameter welded steel casing was installed from 720 feet bls to 2 feet als. The 12-inch casing was pressure grouted in place using the casing method of grouting. An 11.5-inch drill bit was installed into the 12-inch casing and drilling resumed from 720 feet bls to 780 feet bls using the mud-rotary method. The reverse-air method of drilling was used for drilling from 780 feet bls to 810 feet bls. Thick sequences of quartz sand encountered at 810 feet bls necessitated the use of drilling mud to continue drilling. The mud-rotary method was used again for drilling from 810 feet bls to 970 feet bls. The well was developed using the airlifting method until all drilling mud and sand was flushed from the well. Head levels in the well rose to approximately 10 feet als after removing the drilling mud from the well. A 12-inch x 8-inch diameter steel tee was installed on top of the 12-inch steel casing to stop the flow of water from the well. Figure 10 presents the as-built diagram for the Suwannee Limestone/Upper Floridan Aquifer monitor well (MW-4).

3.5 Permanent Surficial Aquifer Observation Well

A 12.25-inch diameter borehole was drilled from land surface to 85 feet bls using the mud-rotary method. The drilling mud was flushed from the hole and 80 feet of 4-inch diameter Tri-Lock® schedule 40 PVC 0.010-inch slot well screen (85 feet bls to 5 feet bls) and 7 feet of 4-inch diameter Tri-Lock® schedule 40 PVC casing (5 feet bls to 2 feet als) was installed into the borehole. A 150 gallon mixture of hexaphos® and water was poured into the well to breakdown the remaining drilling mud in the borehole. A 6-20 grain-size silica sand pack was installed from 85 feet bls to 4 feet bls in the annulus of the well. Bentonite chips were installed above the sand from 4 feet bls to 2 feet bls to form a seal. Portland cement was

installed from 2 feet bls to land surface. The well was developed using the airlifting method. A 12-inch diameter locking steel cover was installed around the well. Figure 11 presents the as-built diagram for the permanent surficial observation well (MW-5).

3.6 Avon Park/Upper Floridan Aquifer Monitor Well

The Avon Park well was previously constructed by the District owned Speedstar SS-40 drilling rig in July 1995. The well consisted of 18-inch steel casing from land surface to 180 feet bls, 12-inch steel casing from 180 feet bls to 1,080 feet bls, and an 11-inch open hole interval of 1,080 feet bls to 1, 650 feet bls.

The District contractor (Diversified Drilling, Inc.) set-up on the Avon Park well and drilled a 5.675-inch diameter borehole from the previous total depth of 1,650 feet bls to 1,776 feet bls. Drilling was terminated at 1,176 feet bls. Ground-water samples collected from this depth were near sea-water concentrations (see **Volume II - Exploratory Drilling and Testing**). Following all testing activities, the borehole was tremie grouted from 1,776 feet bls to 1,716 feet bls. Limestone gravel was installed in the borehole from 1,716 feet bls to 1,645 feet bls. Portland cement was tremie grouted from 1,645 feet bls to 1,465 feet bls and gravel was installed again from 1,465 feet bls to 1,445 feet bls. The borehole was then tremie grouted from 1,465 to 1,400 feet bls, the bottom of the open hole interval. Thirteen-hundred fifty-three feet of 6-inch schedule 40 PVC (1,350 feet bls to 3 feet als) was installed into the well. A 6-inch x 11-inch cement basket was attached to the bottom of the 6-inch PVC prior to installation. A bentonite seal was installed in the annular space, above the cement basket from 1,350 feet bls to 1,330 feet bls prior to grouting. The annular space was then tremie grouted from 1,330 feet bls to land surface. Development of the well was achieved by allowing the well to flow during the tremie grouting procedure. The 6-inch casing was equipped with a 6-inch valve above land surface. Figure 12 presents the as-built diagram for the Avon Park/Upper Floridan Aquifer monitor well (MW-6).

4.0 AQUIFER PERFORMANCE TESTING

Aquifer performance tests (APT's) were conducted on all permanent wells, except the Avon Park/Upper Floridan monitor well (MW-6), from January 1997 to April 1997 at the ROMP 5 wellsite. The APT's were conducted to determine the hydraulic characteristics (hydraulic conductivity, transmissivity, storativity) of the water bearing units in the vicinity of ROMP 5. The data collected from the APT's is

used in the development of computer ground-water models that simulate the flow system in the SDWRAP. Table 2 presents the hydraulic values for each aquifer tested.

4.1 Surficial Aquifer System

The surficial aquifer system APT was conducted from January 13, 1997 to January 16, 1997. Background water levels were collected in the surficial aquifer system from December 13, 1996 to January 31, 1997. Figure 13 presents a hydrograph of the surficial aquifer at ROMP 5. A step-test was conducted on the surficial aquifer on 1-6-97 and the IAS Upper Permeable Zone APT was conducted from 1-6-97 to 1-8-97. The water level changes in the surficial aquifer during these events can be seen on the hydrograph in figure 13.

The 12-inch diameter surficial aquifer monitor well (MW-1) was pumped with a 1.5 horsepower (HP) electrical submersible pump at 65 gallons per minute (gpm) for 64.5 hours. The discharge water was pumped approximately 1000 feet away from the well through a 2-inch diameter discharge hose. During the drawdown and recovery phase of the APT, water levels were measured in the 12-inch surficial pumped well (MW-1), the 4-inch surficial observation well (OB) located 45 feet from the pumped well, and the 8-inch diameter upper intermediate aquifer well. The water level measurements were recorded using pressure transducers and an In-Situ® data logger. Five hundred minutes into the drawdown phase of the APT heavy rain occurred which caused water levels in the surficial aquifer to rise. This rain event is noted on the drawdown curves of both the surficial pumped well and OB well (Figure 14). The data effected by the rain event was not used in the determination of the hydraulic values.

The data collected from the surficial APT was analyzed using Waterloo Hydrogeologic Inc., AquiferTest® software. The drawdown curve of the 4-inch surficial OB well (MW-5) was analyzed using the *Neuman Method (Unconfined)* and the *Cooper & Jacob Method* (*with Jacob correction for unconfined conditions*). The recovery curve for MW-5 was analyzed using the *Theis & Jacob Recovery Test Method* (*with Jacob correction for unconfined conditions*). The following are the averaged values for the three methods:

Transmissivity (T) = 2.78 X 10^3 $feet^2$/day
Horizontal hydraulic conductivity (K_h) = 3.27 x 10^1 feet/day

The drawdown and recovery curves analyzed by the Neuman, Cooper Jacob, and Theis & Jacob methods are presented in Figures 15, 16, and 17, respectively. The water level measurements collected by the data logger for the surficial APT are presented in Appendix A.

4.2 Upper Permeable Zone Intermediate Aquifer System

The APT for the upper permeable zone of the intermediate aquifer system was conducted from January 6, 1997 to January 8, 1997. Background water levels were recorded from December 31, 1996 to January 13, 1997 in the surficial monitor well, and lower permeable zone IAS monitor well. Equipment failure prevented the collection of water level data in the upper permeable zone (IAS) well (prior to drawdown), and in the lower permeable zone (IAS) well (during recovery). Figure 18 presents a hydrograph of the available water levels collected from December 31, 1996 to January 13, 1997. The 8-inch diameter upper permeable IAS monitor well (MW-2) (Figure 8) was pumped with a 10 HP electrical submersible pump at 237 gpm for 37.5 hours. The discharge water was pumped approximately 1,000 feet away through two 2-inch diameter discharge hoses.

Water level changes were recorded in all on-site monitor wells during the drawdown and recovery phases of the APT. The water levels measurements were recorded using pressure transducers and an In-Situ® data logger. During the pumping phase of the test maximum drawdown in the pumped well was 40 feet. Maximum drawdown in the observation well was 16 feet. The drawdown and recovery curves of the 8-inch diameter upper permeable zone IAS pumped well and the 2-inch diameter upper permeable zone IAS observation well (located 93 feet from the pumped well) are shown in Figure 19.

The data collected from the upper permeable zone APT was analyzed using Waterloo Hydrogeologic Inc., AquiferTest® software. The drawdown curve of the 2-inch temporary upper permeable zone IAS OB well was analyzed using the *Cooper & Jacob Time Drawdown Method* and the *Hantush Method (leaky, no aquitard storage)*. The recovery curve of the 2-inch OB well was analyzed using the *Theis & Jacob Recovery Test Method (confined)*. The following are the averaged values for the three methods:

Transmissivity (T) = 1.39 X 10^3 $feet^2$/day
Horizontal hydraulic conductivity (K_h) = 1.39 x 10^1 feet/day
Storativity (S) = 2.12 X 10^{-3}

The drawdown and recovery curves analyzed by the Cooper & Jacob, Hantush, and Theis & Jacob methods are presented in Figures 20, 21, and 22, respectively. The water level measurements collected by the data logger for the upper permeable zone IAS APT are presented in Appendix B.

4.3 Lower Permeable Zone Intermediate Aquifer System

The APT for the lower permeable zone of the IAS was conducted from April 2, 1997 to April 3, 1997. Background water levels were recorded in all on-site monitor wells from March 27, 1997 to April 7, 1997. Figure 23 presents hydrographs of the upper permeable zone (IAS), lower permeable zone (IAS), Suwannee, and Avon Park monitor wells from March 27, 1997 to April 7, 1997. The 12-inch diameter lower permeable zone IAS monitor well (MW-3) was pumped with a 30 HP right-angle drive, diesel turbine pump at 930 gpm for 21 hours. The discharge water was pumped 600 feet away through a 6-inch diameter discharge hose .

During the APT, water level changes were recorded in all wells using pressure transducers and an In-Situ® data logger. Maximum drawdown in the pumped well was 19 feet at 930 gpm. No observation well was constructed at this site for the lower permeable zone. Figure 24 presents the drawdown and recovery curves of the 12-inch lower permeable zone pumped well. During the drawdown phase, the water levels in the 12-inch Suwannee/Upper Floridan monitor well (MW-4) declined approximately 1.5 feet. During the recovery phase of the test the water level in the 12-inch Suwannee well rose to the pre-pumping level (Figure 23). These water level changes indicate a hydraulic connection between the lower permeable zone of the IAS and the Upper Floridan aquifer.

The data collected from the upper permeable zone IAS APT was analyzed using Waterloo Hydrogeologic, Inc., AquiferTest® software. The recovery curve of the 12-inch pumped well was analyzed using the *Theis & Jacob Recovery Test Method (confined)*. **No observation well was available at this site for the APT.** The approximate hydraulic values for the Upper Permeable of the IAS at ROMP 5 are:

Transmissivity (T) = 2.97 X 10^3 feet^2/day
Horizontal hydraulic conductivity (K_h) = 1.98 x 10^1 feet/day

The recovery curve analyzed by the Theis & Jacob method is presented in Figure 25. The water level measurements collected by the data logger for the lower permeable zone IAS APT are presented in Appendix C.

4.4 Suwannee/Upper Floridan Aquifer

The Suwannee/Upper Florida aquifer APT was conducted from April 9, 1997 to April 10, 1997. Background water levels were collected in all on-site monitor wells from April 4, 1997 to April 17, 1997. Figure 26 presents hydrographs of the monitor wells. The 12-inch Suwannee/Upper Floridan aquifer well (MW-4) was pumped with a 30 HP right-angle drive diesel turbine pump at 349 gpm for 24 hours. The discharge water was pumped 600 feet away through a 6-inch diameter discharge hose.

An In-Situ® data logger and water level transducers recorded water level changes in all on-site monitor wells during the APT. Maximum drawdown in the pumped well was 61 feet while pumping at 349 gpm. The maximum drawdown in the Suwannee/Upper Floridan aquifer OB well (located 130 feet from pumped well) was 8.5 feet. Figure 27 presents the drawdown and recovery curves of the Suwannee/Upper Floridan pumped and observation wells. During the drawdown phase of the test, the water level in the 12-inch lower permeable zone IAS monitor well declined approximately 0.7 feet. During the recovery phase, the water levels in this well returned to the pre-pumping level (Figure 26).

The data collected from the Suwannee/Upper Floridan aquifer APT was analyzed using Waterloo Hydrogeologic, Inc., AquiferTest® software. The drawdown curve of the 2-inch Suwannee/Upper Floridan OB well was analyzed using the *Cooper & Jacob Time Drawdown Method* and the *Hantush Method (leaky, no aquitard storage)*. The recovery curve was analyzed using the *Theis & Jacob Recovery Test Method (confined)*. The following values represent the average of the three methods:

Transmissivity (T) = 2.61 X 10^3 $feet^2$/day
Horizontal hydraulic conductivity (K_h) = 1.04 x 10^1 feet/day
Storativity (S) = 4.08 X 10^{-1}

The drawdown and recovery curves analyzed by the Cooper & Jacob Time Drawdown, Hantush, and Theis & Jacob methods are presented in Figures 28, 29, and 30, respectively. The water level measurements collected by the data logger for the Suwannee/Upper Floridan aquifer APT are presented in Appendix D.

5.0 SUMMARY

Six permanent monitor wells were constructed during phase three (March 1996 to July 1996) of the hydrogeologic investigation at the ROMP 5 Cecil Webb monitor well site. The monitor wells were constructed to collect long-term water level and water quality information from the surficial aquifer system, upper and lower permeable zones of the intermediate aquifer system, the Suwannee permeable zone of Upper Floridan aquifer, and the Avon Park permeable zone of the Upper Floridan aquifer. The ROMP 5 permanent monitor wells will be equipped with continuous water level recorders. The record of the monitor well water levels will be compiled and maintained by the District's Hydrologic Data Section.

The fourth and final phase of the ROMP 5 investigation, aquifer performance testing, was conducted from January 1997 to April 1997. Aquifer performance tests were conducted on the surficial aquifer system, upper and lower permeable zones of the intermediate aquifer system, and the Suwannee permeable zone of the Upper Floridan aquifer. The APT results indicate the 85 feet thick surficial aquifer system is fairly productive with a transmissivity (T) value of 2,780 feet^2/day or 20,794 gallons/day/foot. The APT results of the 100 feet thick upper permeable zone of the IAS indicate this zone is less productive than the surficial aquifer with a transmissivity (T) value of 1,390 feet^2/day or 10,397 gallons/day/foot. The APT conducted on the 150 feet thick lower permeable zone of the IAS showed it is in hydraulic connection with the underlying Suwannee permeable zone of the Upper Floridan aquifer. This test was conducted without an observation well so the hydraulic values are less reliable than the other APT's conducted at the site. The transmissivity (T) of the lower permeable zone of the IAS is approximately 2,970 feet^2/day or 22,216 gallons/day/foot. The APT conducted on the 250 feet thick Suwannee permeable zone of the Upper Floridan aquifer indicates that this zone is comparatively low for other zones of the Upper Floridan aquifer. Transmissivity of the Suwannee permeable zone is 2,610 feet^2/day or 19,523 gallons/day/foot.

This report completes the hydrogeologic investigation performed at ROMP 5 from June 1993 to April 1997. The data collected from the ROMP 5 investigation will be used in the District's Southern District Water Resources Project.

6.0 REFERENCES

Cooper, H. H., Jr., and Jacob, C. E., 1946, A Generalized Graphical Method for Evaluating Formation Constants and Summarizing Well-Field History: American Geophysical Union Transactions, Vol. 27, No. 4, pp. 526-534.

Driscoll, F.G., 1986, Groundwater and Wells: Johnson Filtration Systems, Inc.,pp 3288-329.

Hantush, M. S., 1956, Analysis of Data from Pumping Tests in Leaky Aquifers: American Geophysical Union Transactions, Vol. 37, No. 6, pp. 702-714.

Jacob, C. E., 1963, The Recovery Method for Determining the Coefficient of Transmissibility: U. S. Geological Survey Water Supply Paper 1536-I, pp. 283-292.

Neuman, S. P., 1975, Analysis of Pumping Test Data from Anisotropic Unconfined Aquifers Considering Delayed Gravity Response: Water Resources Research, Vol. 11, No. 2. pp. 329-342.

Theis, C. V., 1935, The Relation Between the Lowering of the Piezometric Surface and the Rate and Duration of Discharge of a Well Using Ground-Water Storage: American Geophysical Union Transactions, Vol. 16, pp.519-524.

FIGURES

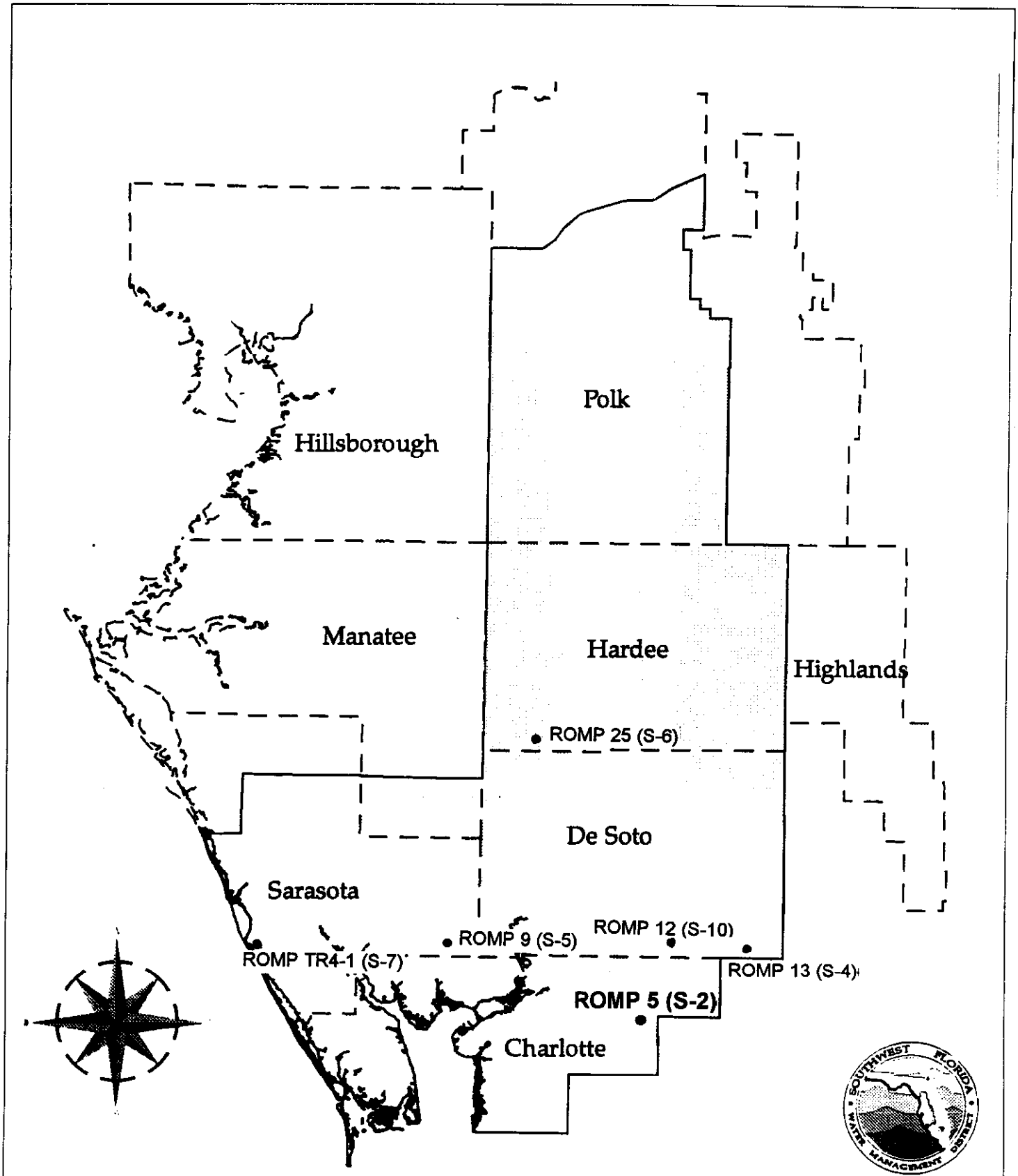

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FIGURE 1. ROMP 5 CECIL WEBB

Southern District Water Resources Assessment Project Area

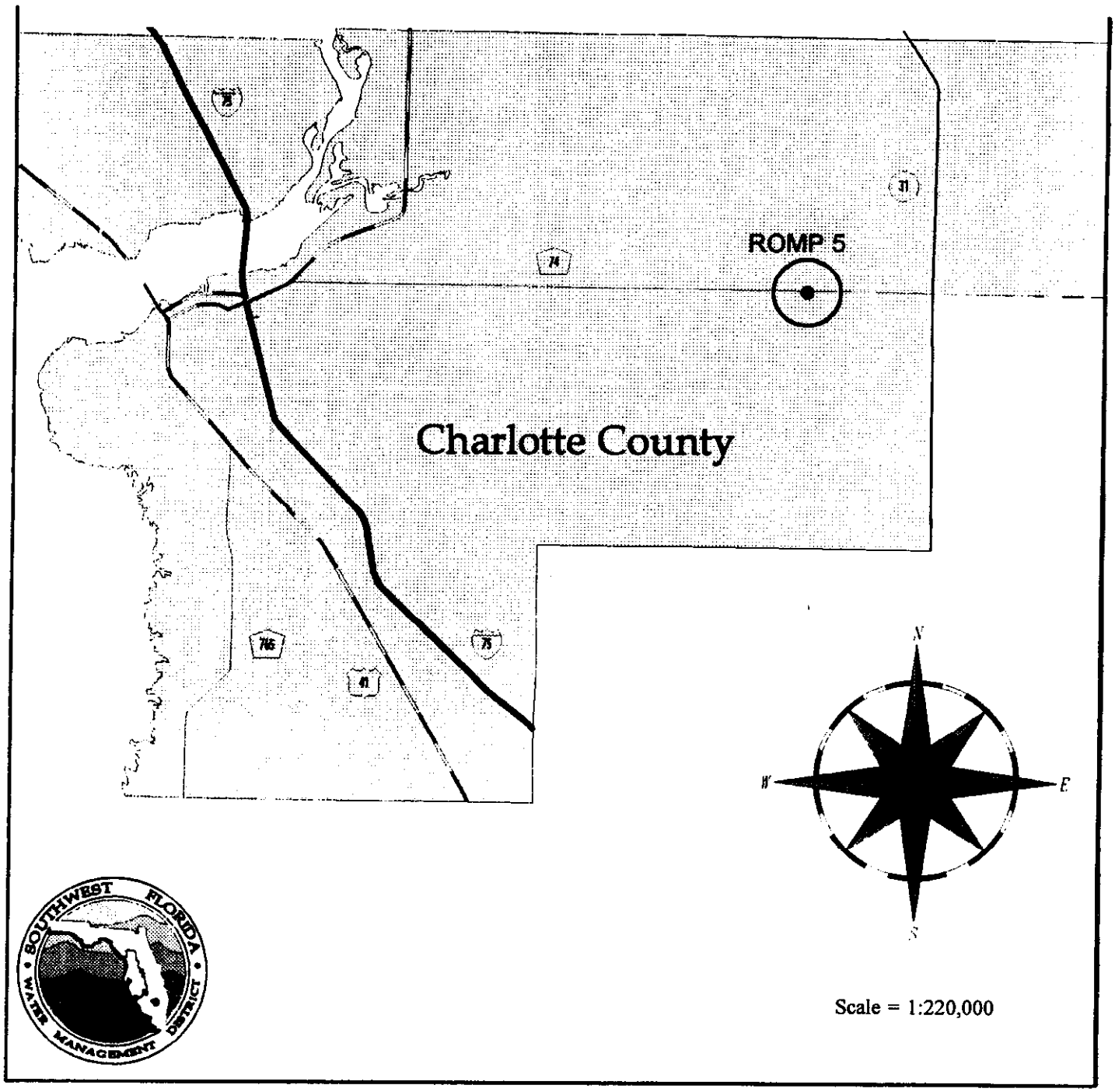

FIGURE 2. ROMP 5 CECIL WEBB

General Location Map

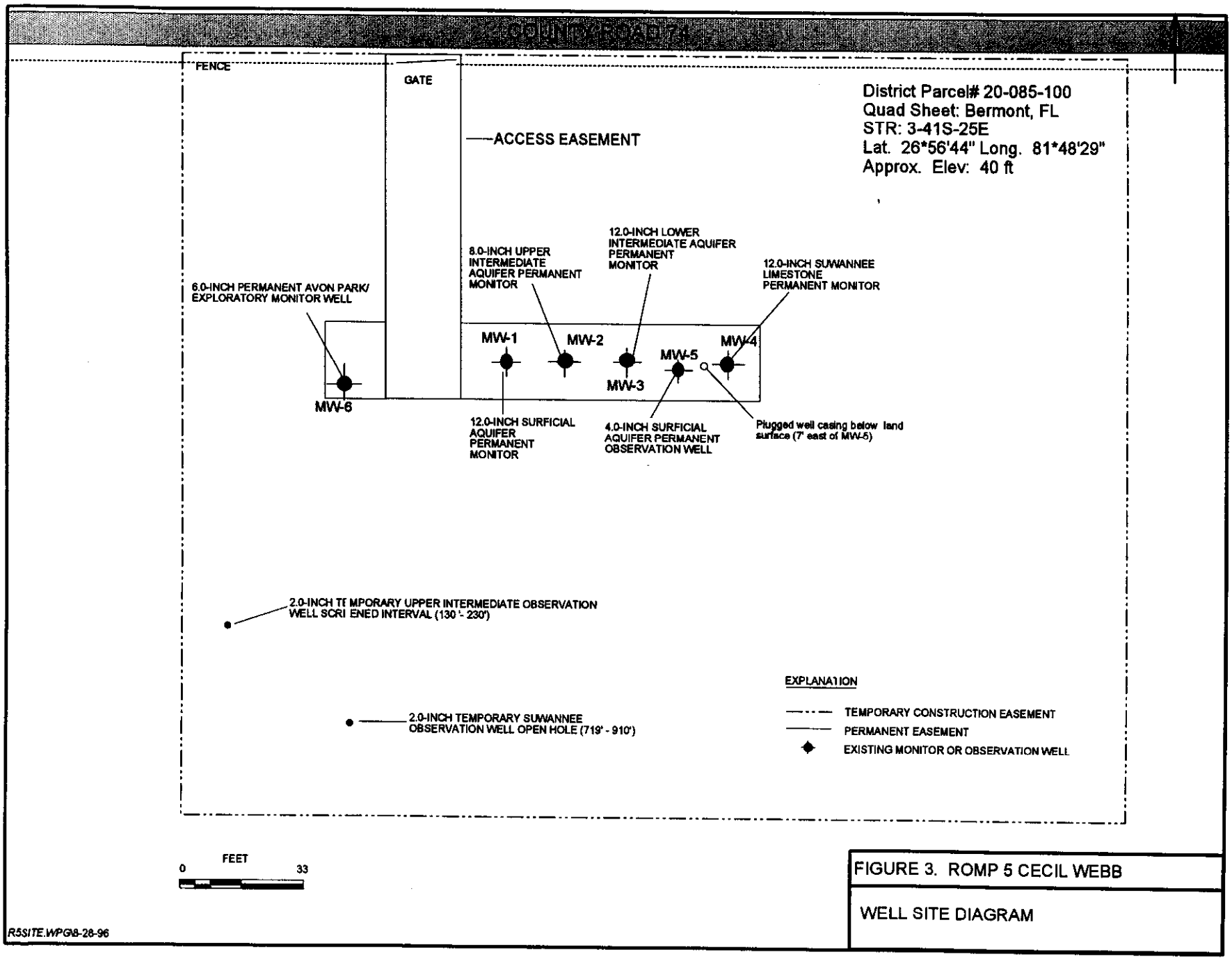

FIGURE 3. ROMP 5 CECIL WEBB

WELL SITE DIAGRAM

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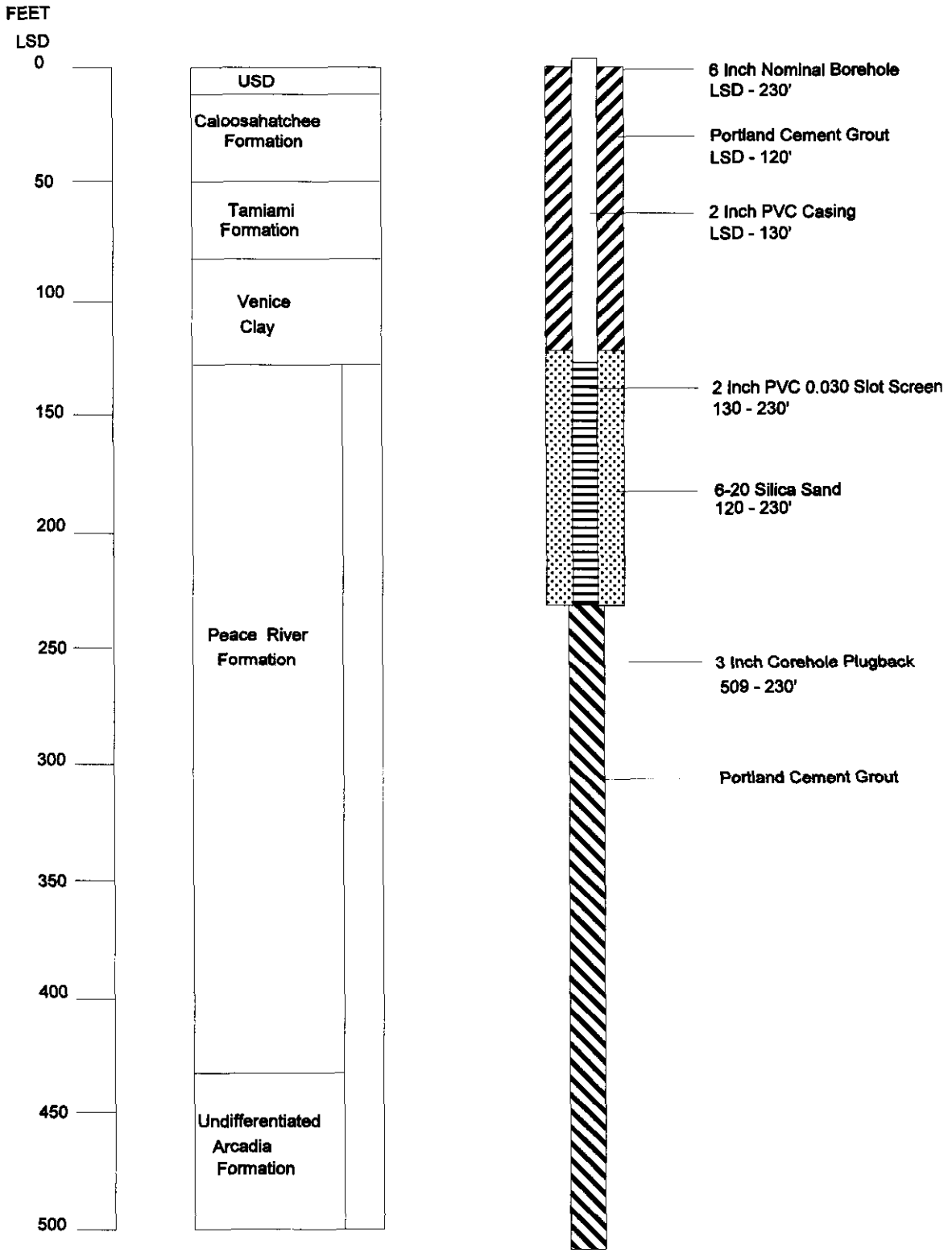

FIGURE 4. ROMP5 CECIL WEBB

Temporary Upper Permeable Zone IAS Observation Well As-Built Diagram

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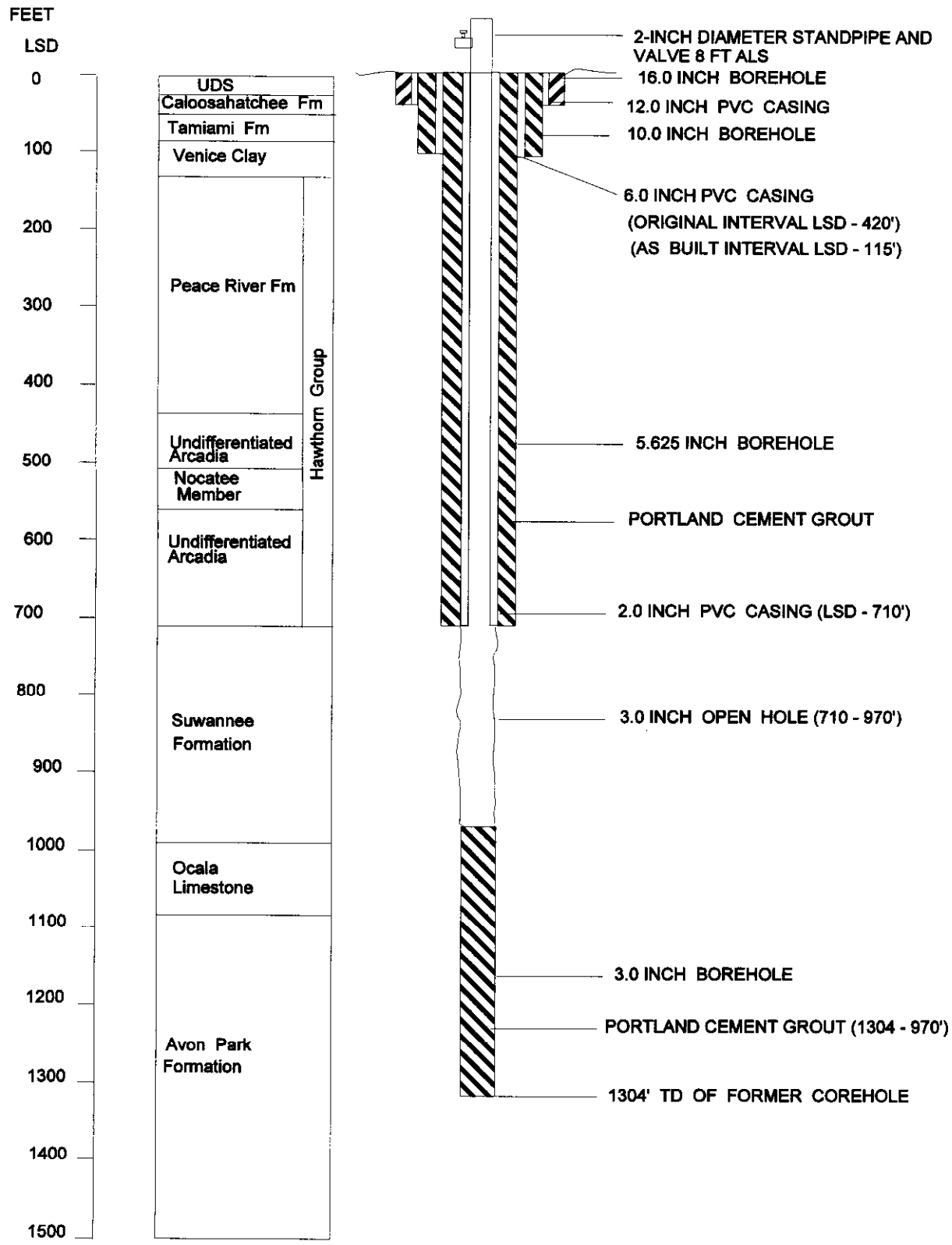

FIGURE 5. ROMP 5 CECIL WEBB

Temporary Suwannee/Upper Floridan Aquifer Observation Well As-Built Diagram

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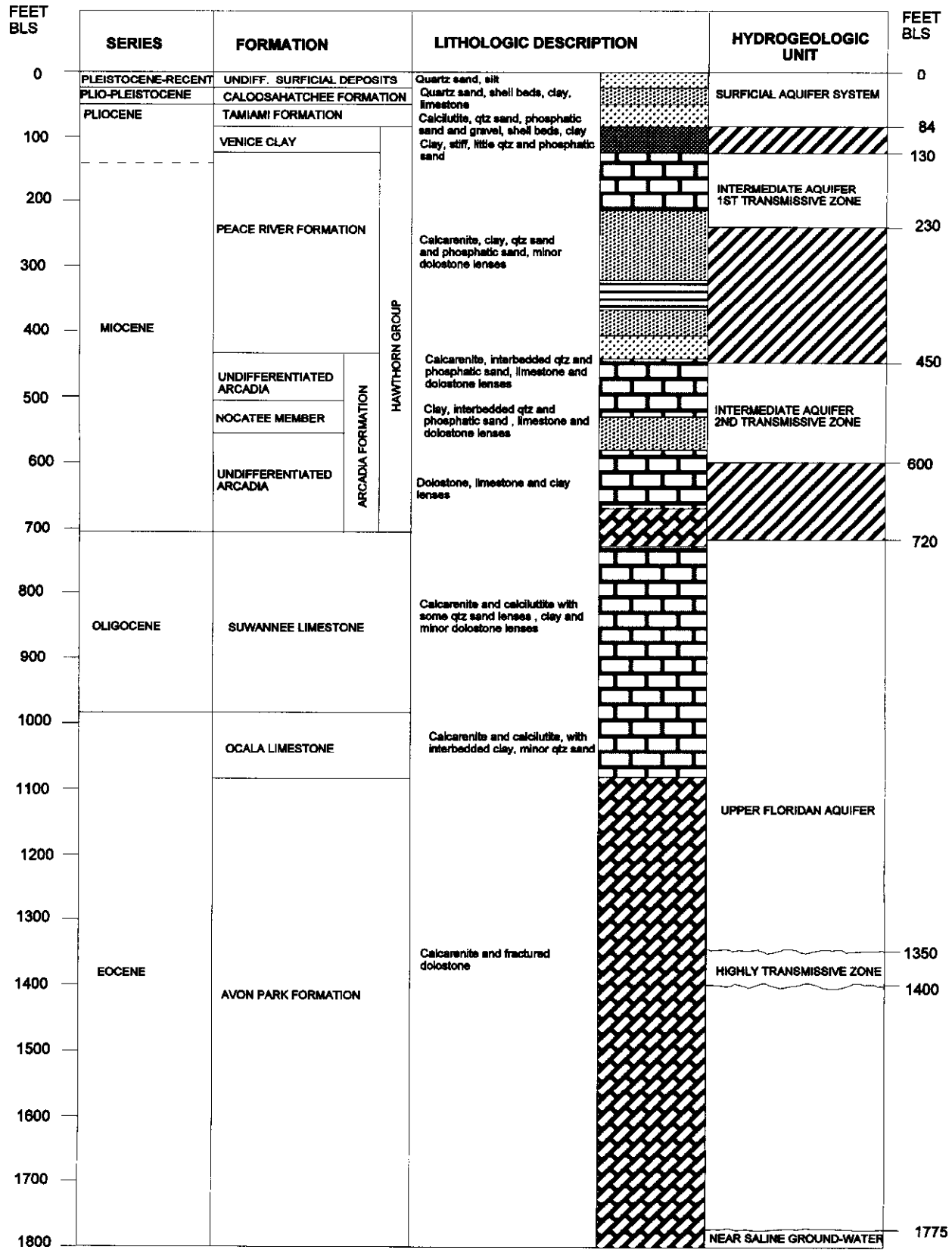

FIGURE 6. ROMP 5 CECIL WEBB

Hydrogeology

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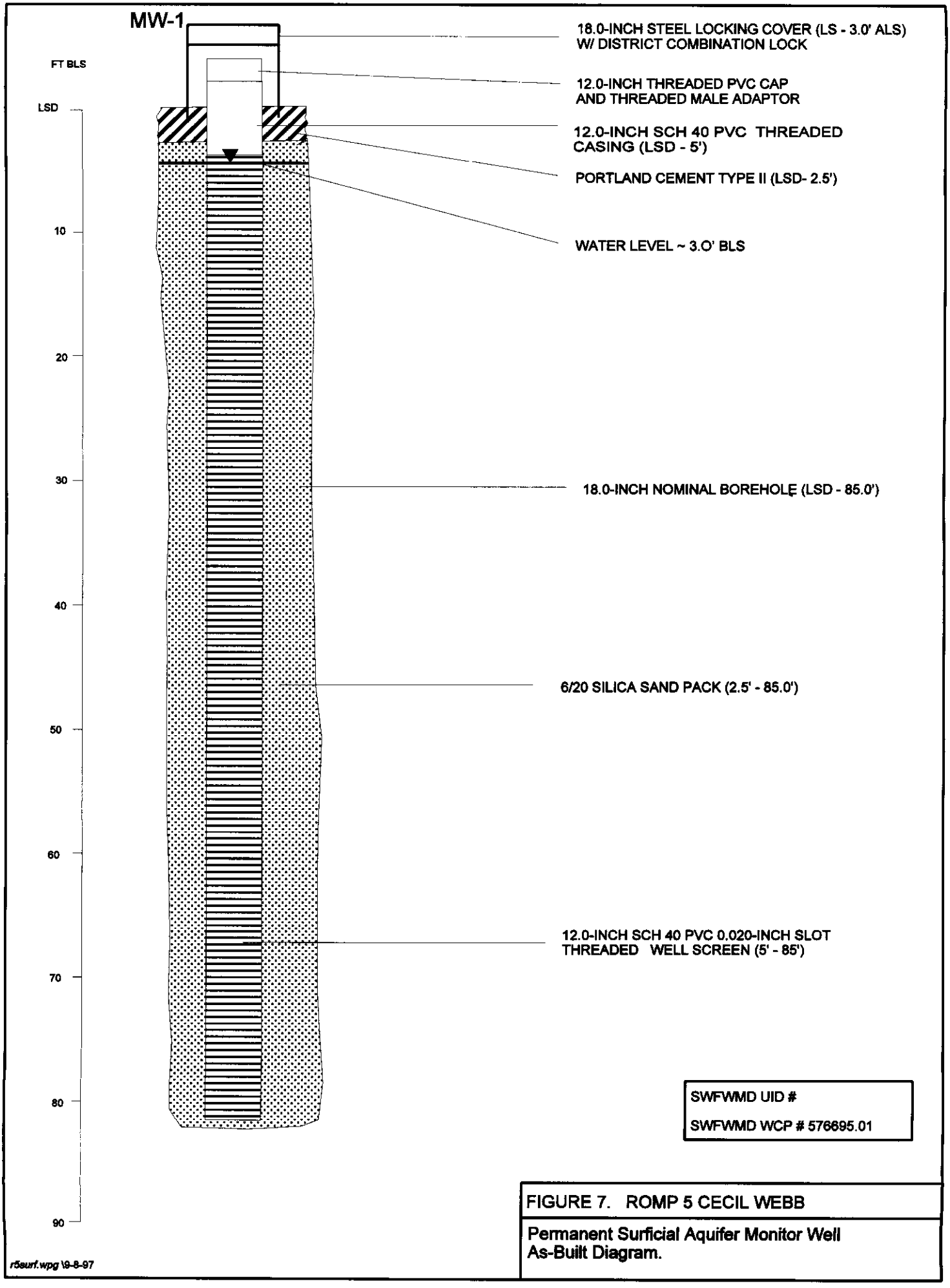
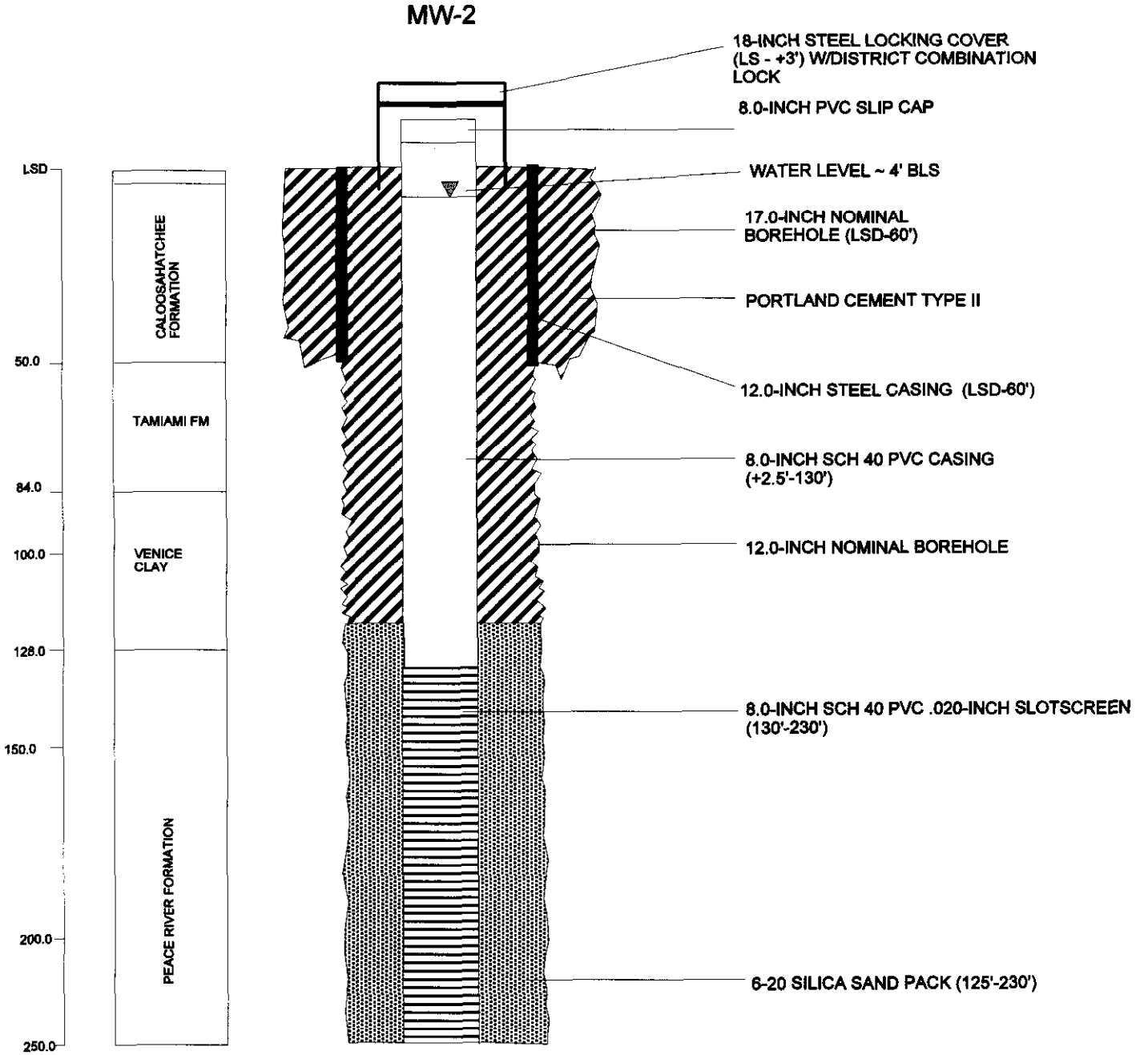


FIGURE 7. ROMP 5 CECIL WEBB

Permanent Surficial Aquifer Monitor Well As-Built Diagram.



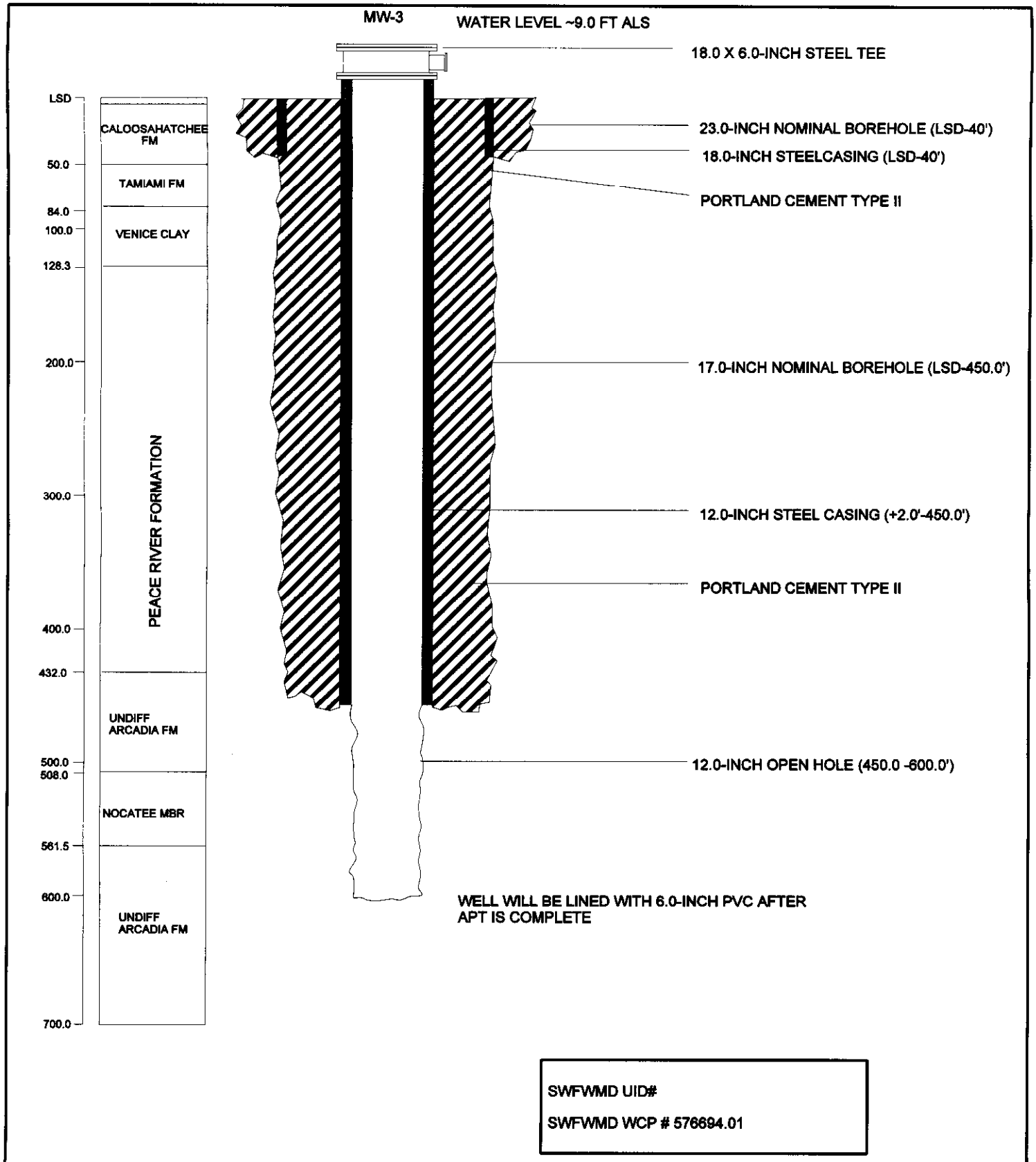
SWFWMD UID#

SWFWMD WCP# 576697.01

FIGURE 8. ROMP 5 CECIL WEBB

Permanent Upper Permeable Zone IAS Monitor Well As- Built Diagram.

R51STZN.WPG \9-8-967



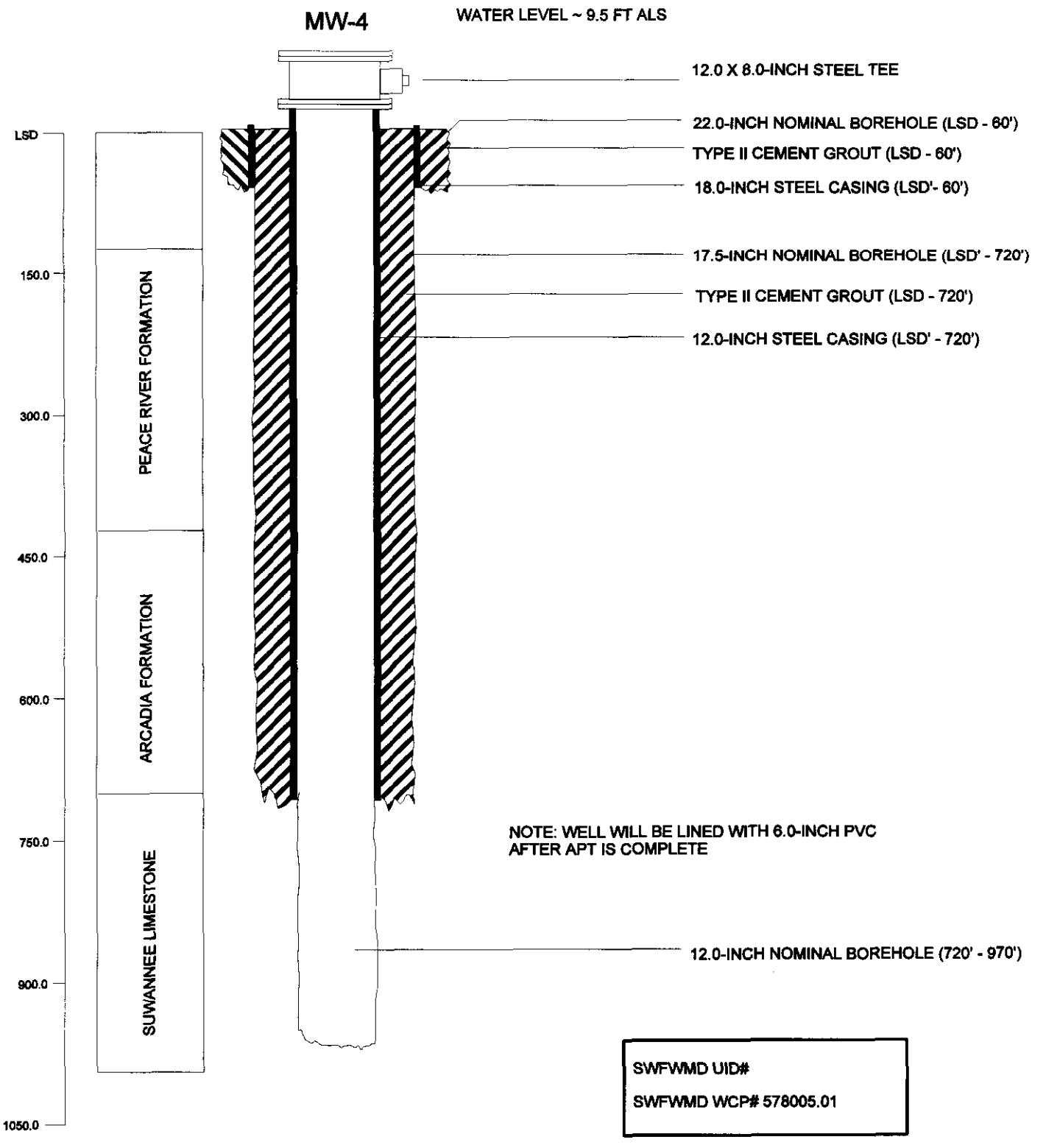
SWFWMD UID#

SWFWMD WCP # 576694.01

FIGURE 9. ROMP 5 CECIL WEBB

Permanent Lower Permeable Zone IAS Monitor Well As-built Diagram.

R65NDZN.WPG 9-8-97



Specific Capacity: 10.25 gpm/ft

FIGURE 10. ROMP 5 CECIL WEBB

Permanent Suwannee/Upper Floridan Aquifer Monitor Well As-Built Diagram.

R5SUW.WPG \9-8-97

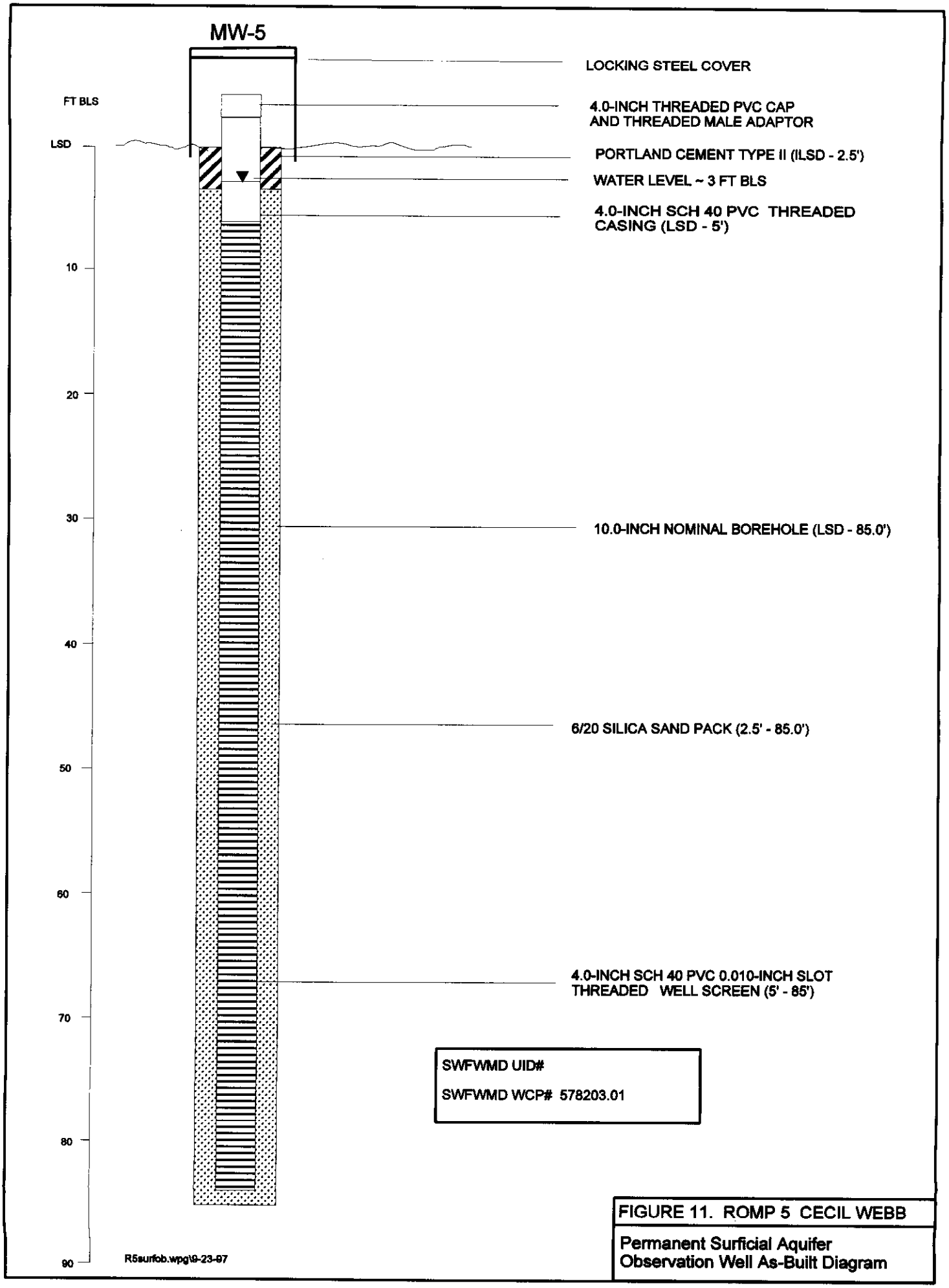


FIGURE 11. ROMP 5 CECIL WEBB

Permanent Surficial Aquifer
Observation Well As-Built Diagram

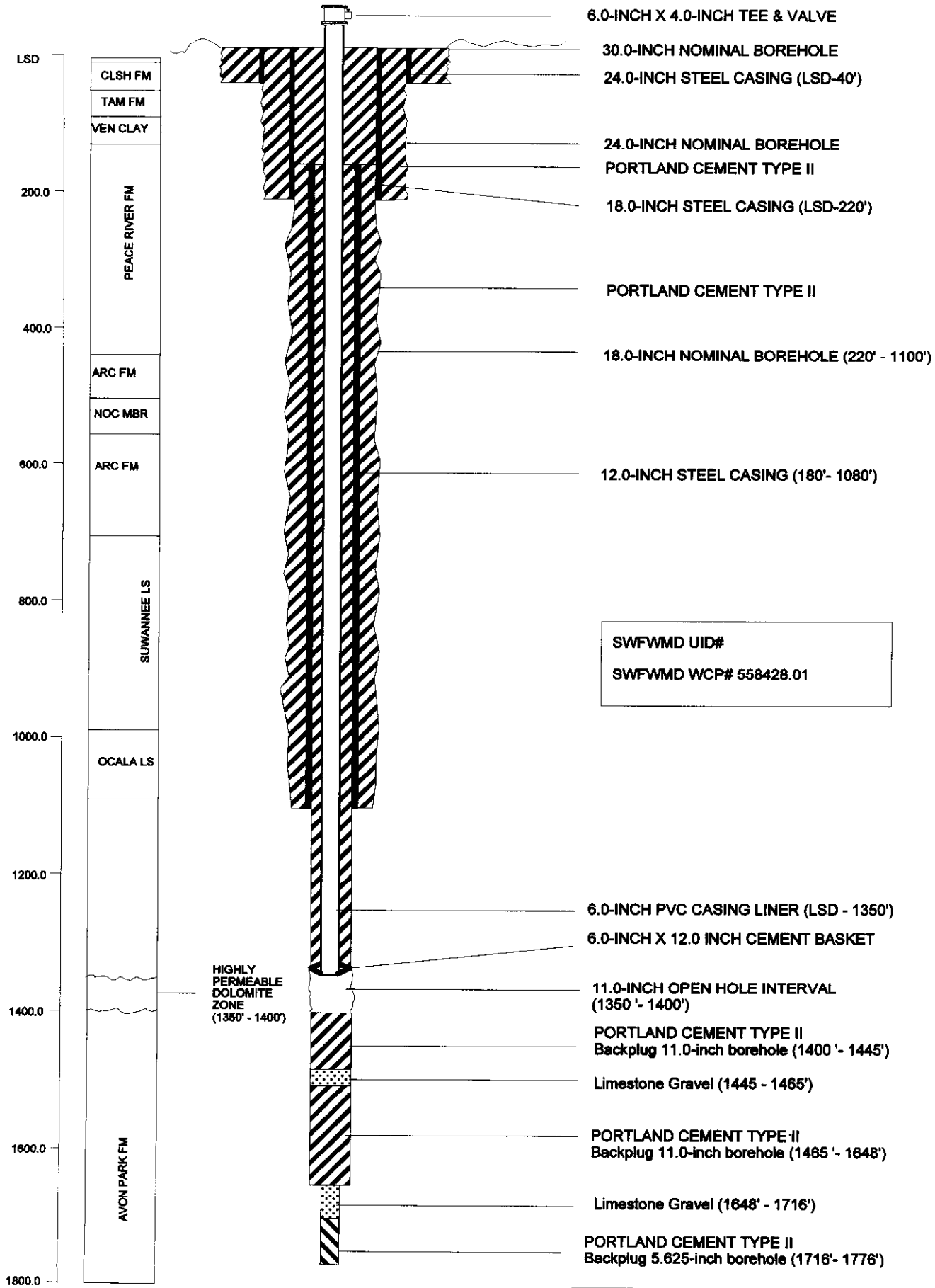


FIGURE 12. ROMP 5 CECIL WEBB

Permanent Avon Park/Upper Floridan Aquifer Monitor Well As-Built Diagram.

ROMP 5 Surficial Aquifer Hydrograph
December 13, 1996 to January 31, 1997

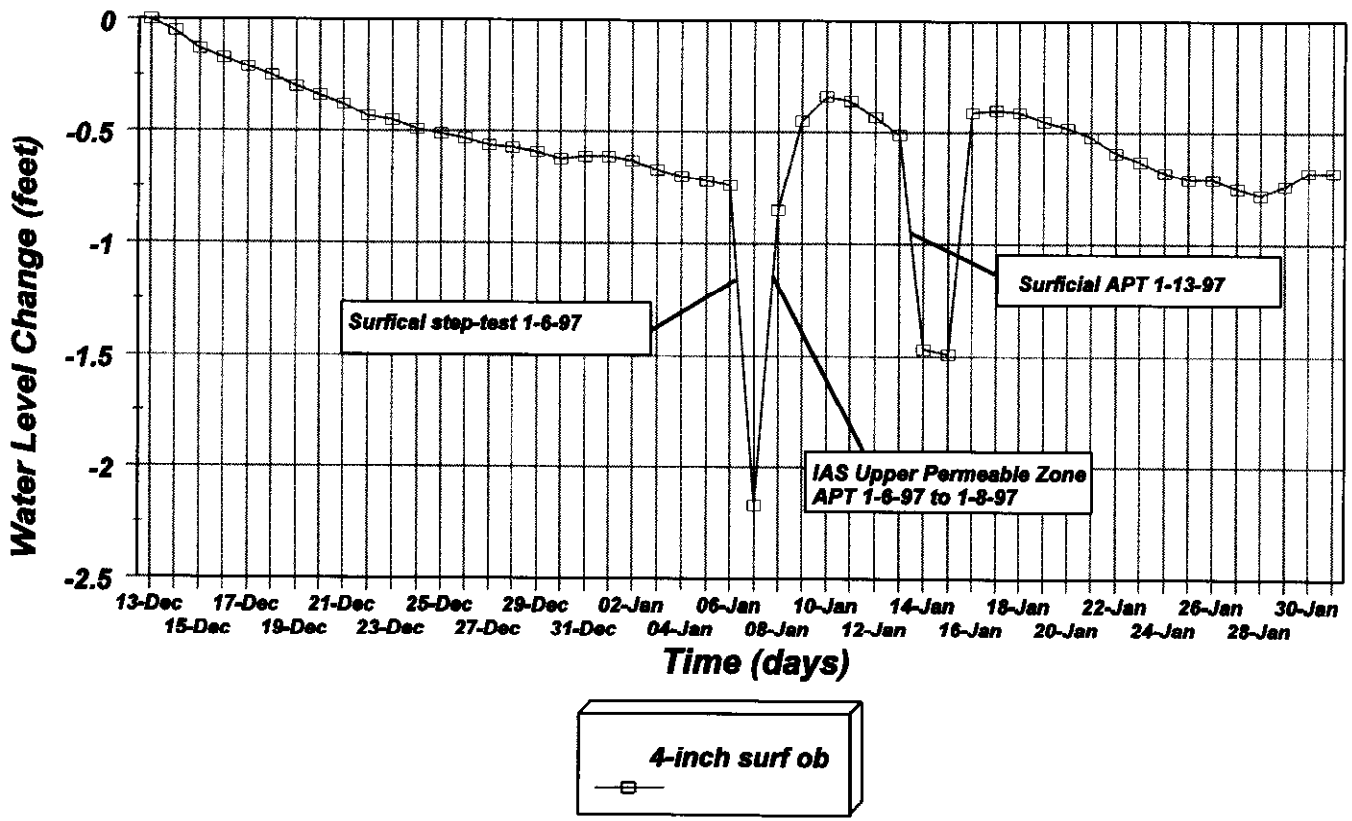


FIGURE 13. ROMP5 CECIL WEBB

Surficial Aquifer Hydrograph

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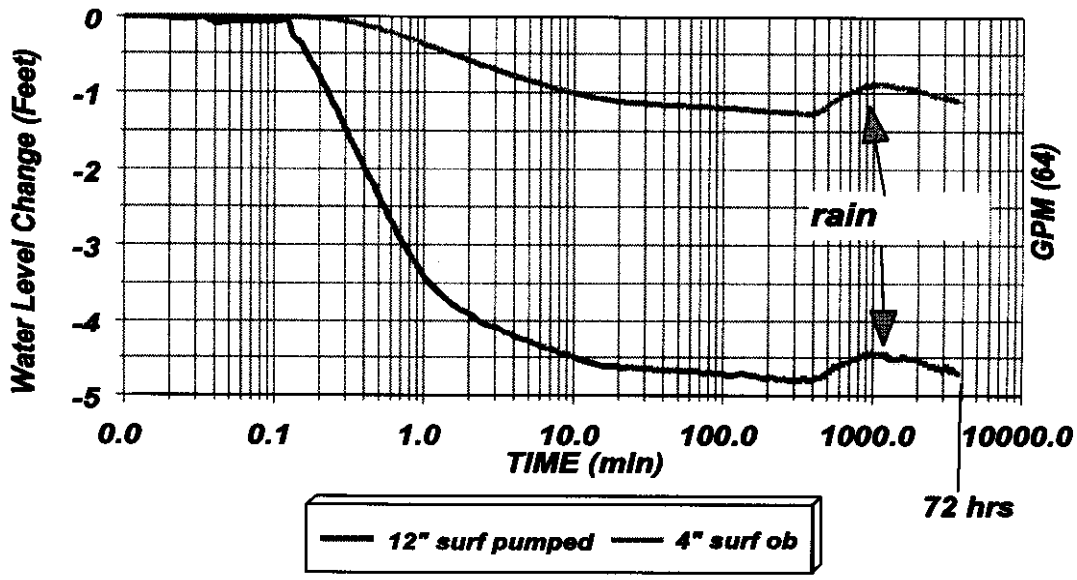
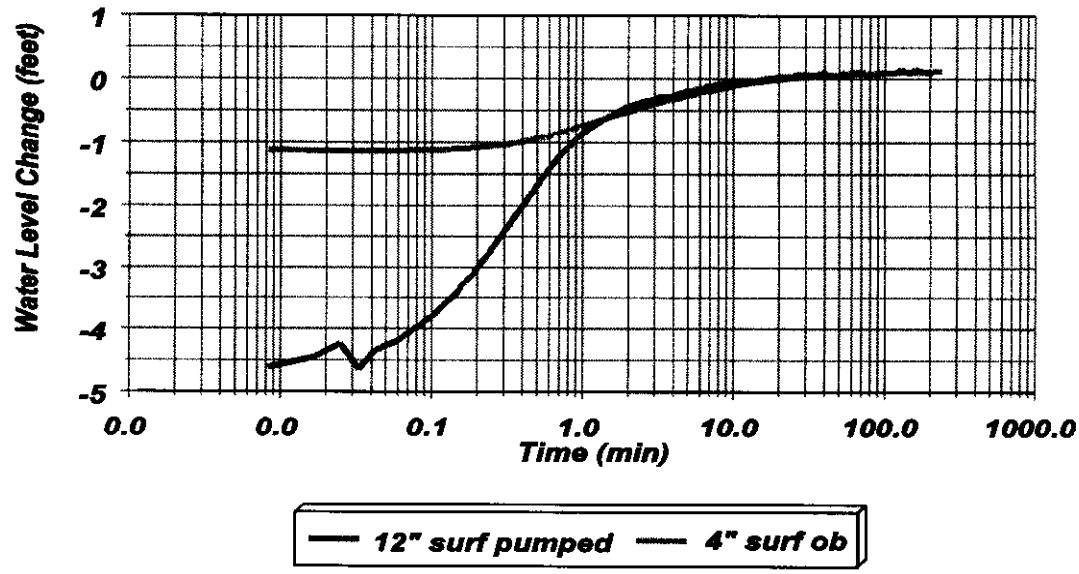
SURFICIAL APT (Drawdown)
1-13-97 to 1-16-97



SURFICIAL APT (Recovery)
1-13-97 to 1-16-97



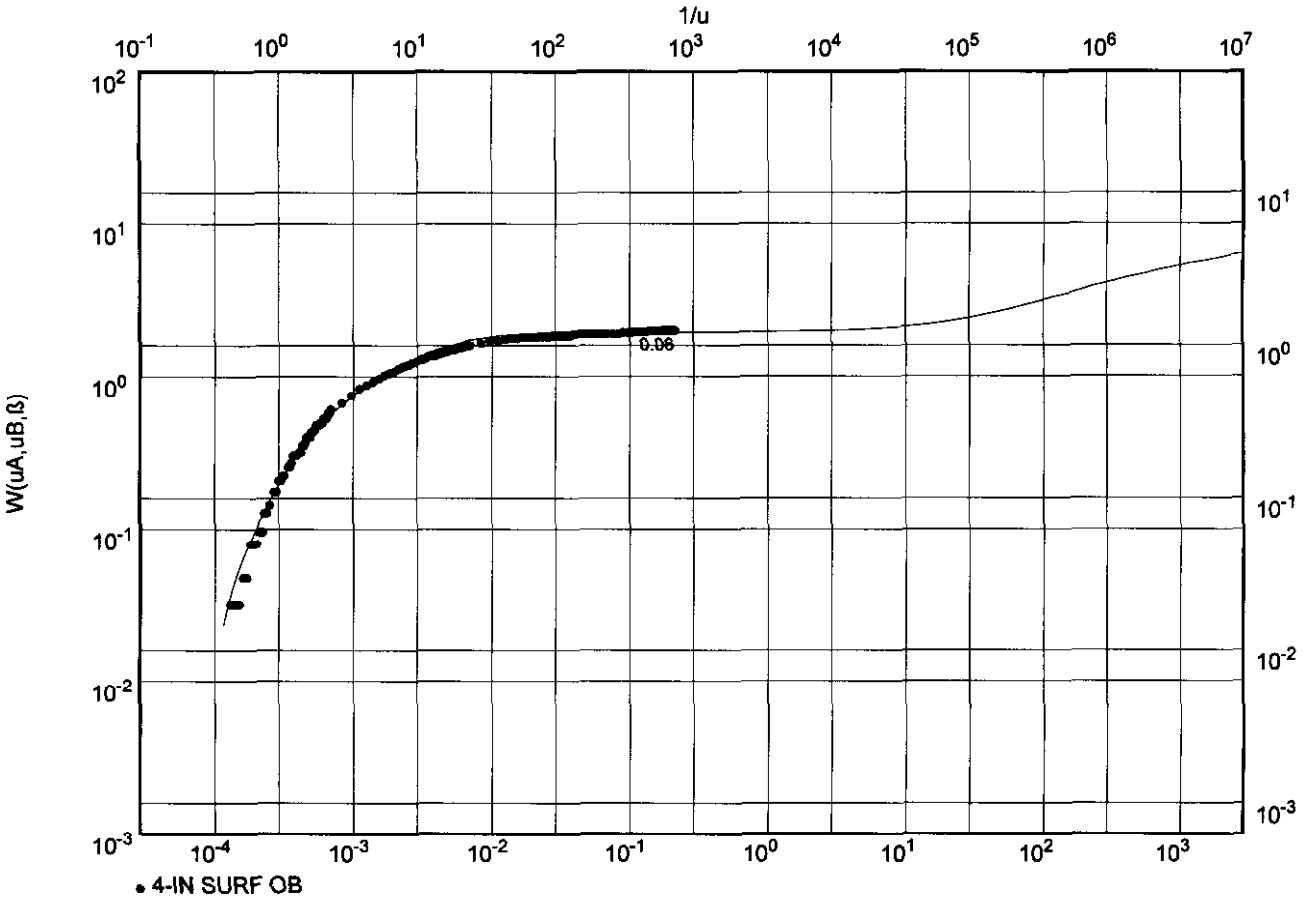
Surfddrc.wpg 9-4-97

FIGURE 14. ROMP 5 CECIL WEBB

Surficial APT Drawdown and Recovery Curves

SWFWMD Geohydrologic Data Section 2379 Broad Street Brooksville, Florida 34609-6899	Pumping test analysis NEUMAN's method Unconfined aquifer with delayed watertable response	FIGURE 15. ROMP 5 Cecil Webb, Page 1 Project: ROMP 5 Cecil Webb Evaluated by: MTG | Date: 9-8-97

Pumping Test No. 1 DRAWDOWN PHASE	Test conducted on: 1-13-97
12-in Surficial Pumped Well	
Discharge 65.00 U.S.gal/min	



Transmissivity [ft²/d]: 1.58×10^3

Hydraulic conductivity [ft/d]: 1.86×10^1

Aquifer thickness [ft]: 85.00

Analysis of drawdown data in 4-in observation well located 45 feet from pumped well

12-in well pumed for 64.5 hours

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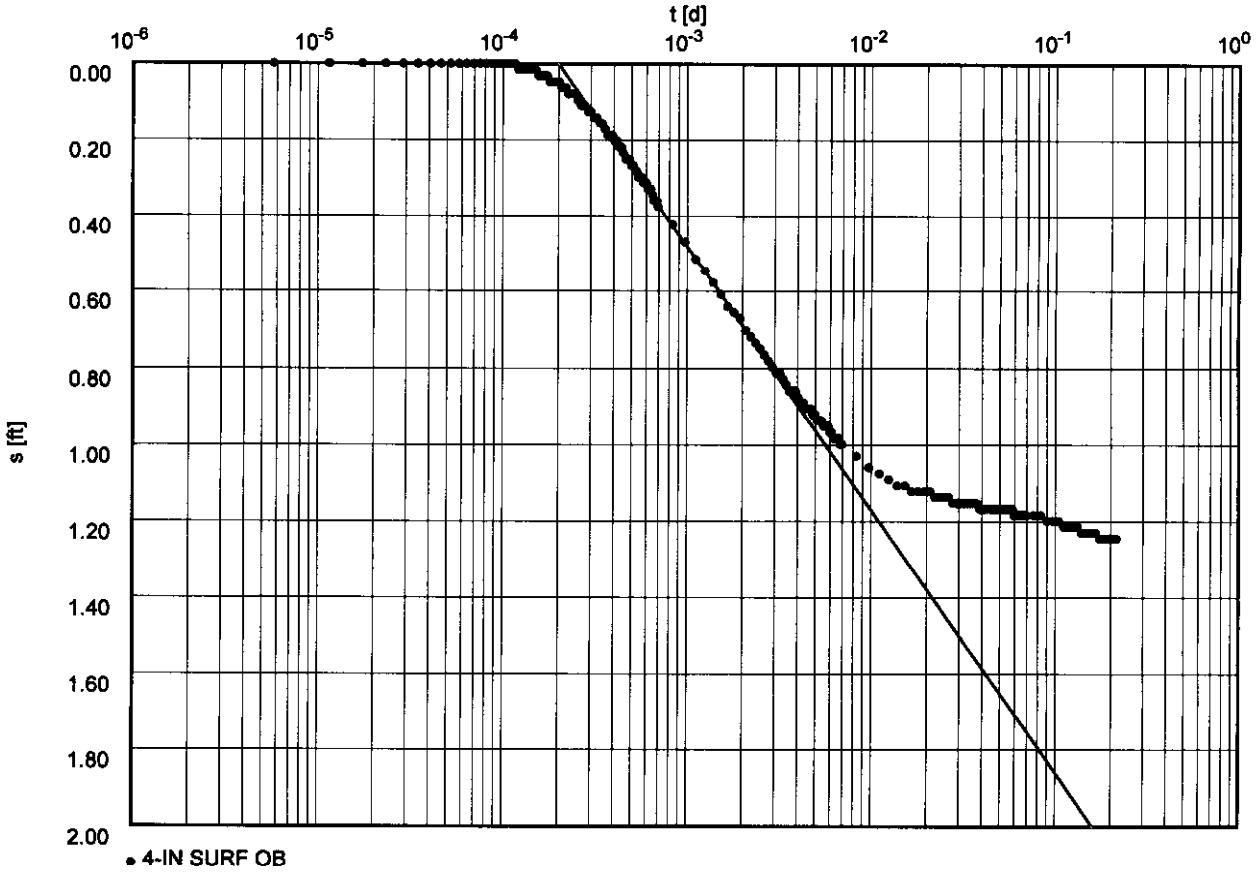
SWFWMD Geohydrologic Data Section 2379 Broad Street Brooksville, FL 34609-6899	Pumping test analysis Time-Drawdown-method after COOPER & JACOB Unconfined aquifer	Figure 16. ROMP 5 Cecil Webb, Page 1 Project: ROMP 5 Cecil Webb Evaluated by: MTG | Date: 9-8-97

Pumping Test No. 1 DRAWDOWN PHASE	Test conducted on: 1-13-97
12-in Surficial Pumped Well	
Discharge 65.00 U.S.gal/min	



Transmissivity [ft²/d]: 3.32×10^3

Hydraulic conductivity [ft/d]: 3.91×10^1

Aquifer thickness [ft]: 85.00

Analysis of drawdown data in 4-inch surficial observation well located 45 feet from pumped well

12-inch well pumped for 64.5 hours

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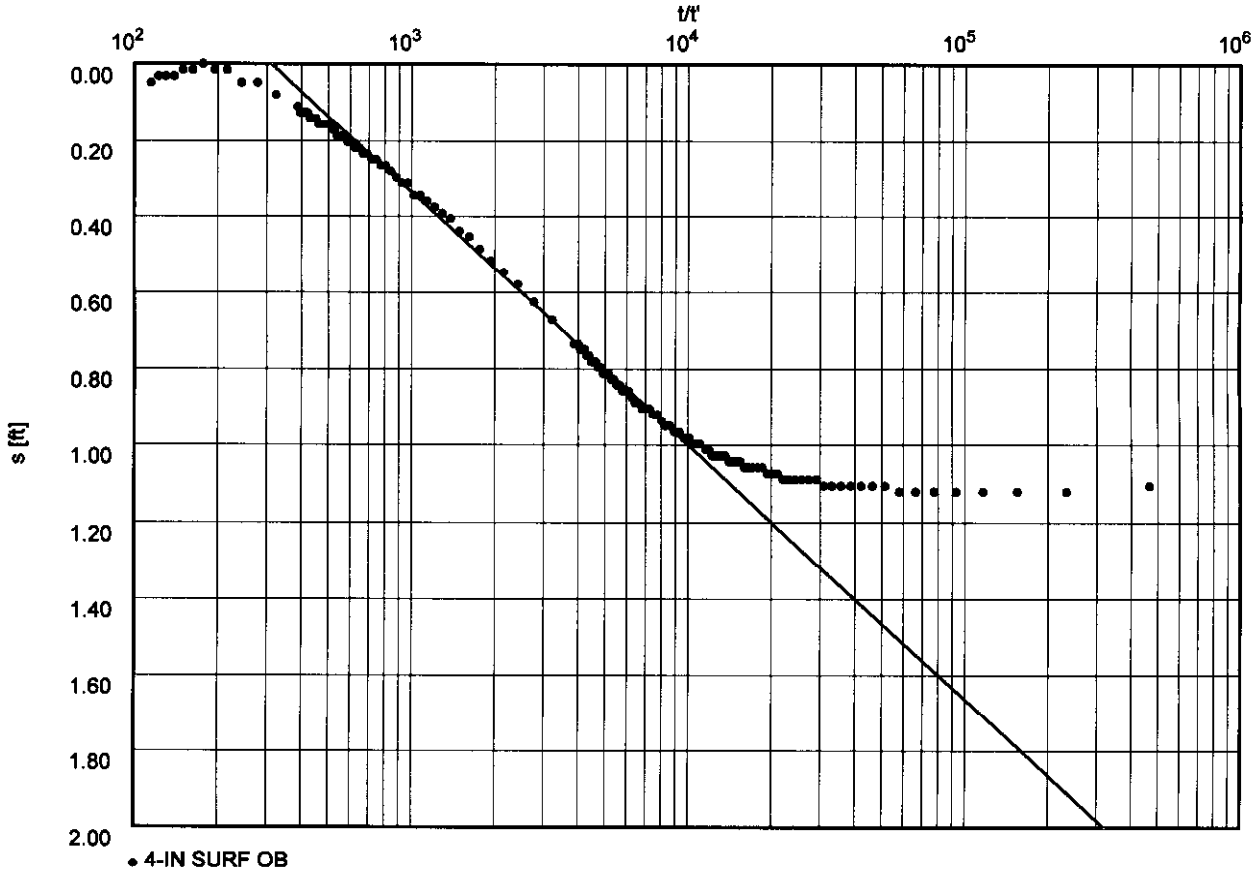
SWFWMD Geohydrologic Data Section 2379 Broad Street Brooksville, FL 34609-6899	Pumping test analysis Recovery method after THEIS & JACOB Unconfined aquifer	FIGURE 17. ROMP 5 Cecil Webb, Page 1 Project: ROMP 5 Cecil Webb Evaluated by: MTG | Date: 9-8-97

Pumping Test No. 1 RECOVERY PHASE	Test conducted on: 1-16-97
12" Surficial Pumped Well	
Discharge 65.00 U.S.gal/min	
	Pumping test duration: 2.68750 d



Transmissivity [ft²/d]: 3.44×10^3

Hydraulic conductivity [ft/d]: 4.05×10^1

Aquifer thickness [ft]: 85.00

Analysis of recovery data in 4-in surficial observation well located 45 feet from pumped well

12-in well pumped for 64.5 hrs

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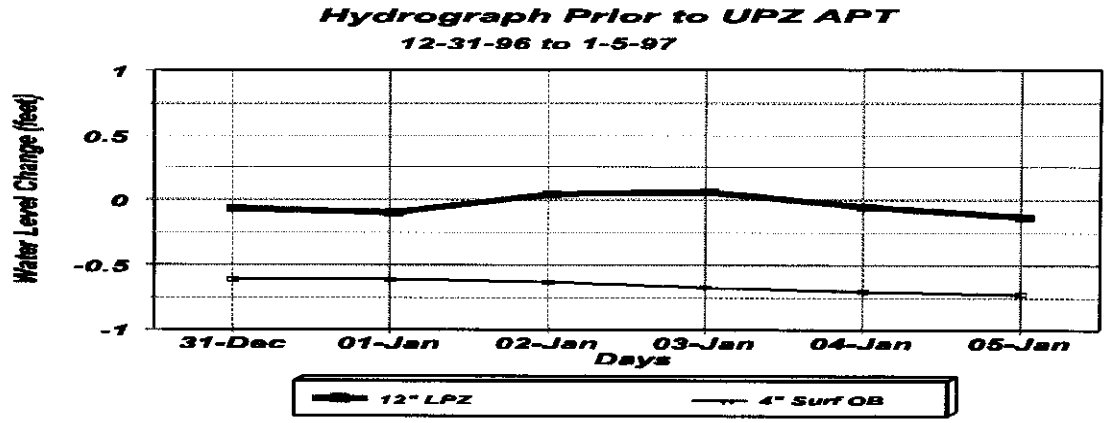
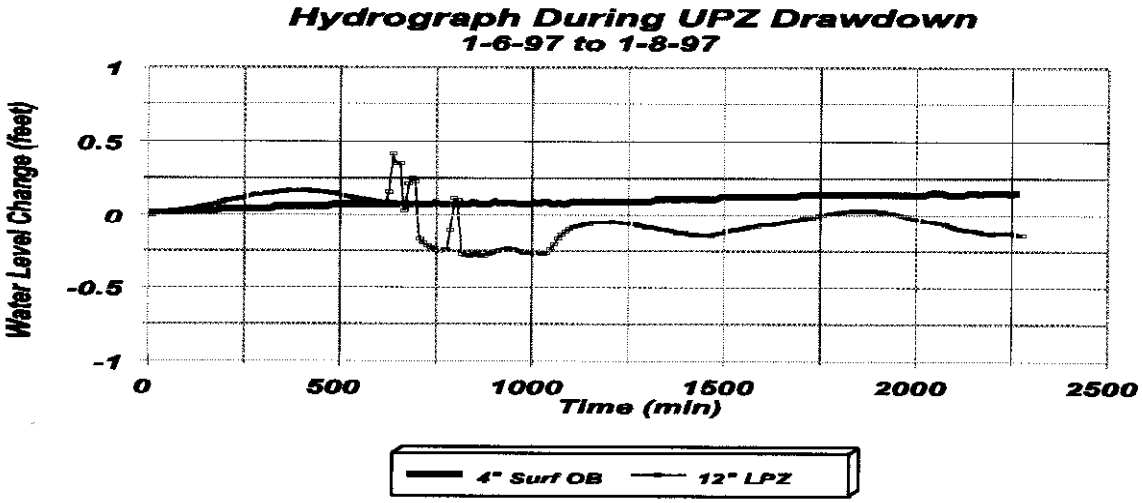




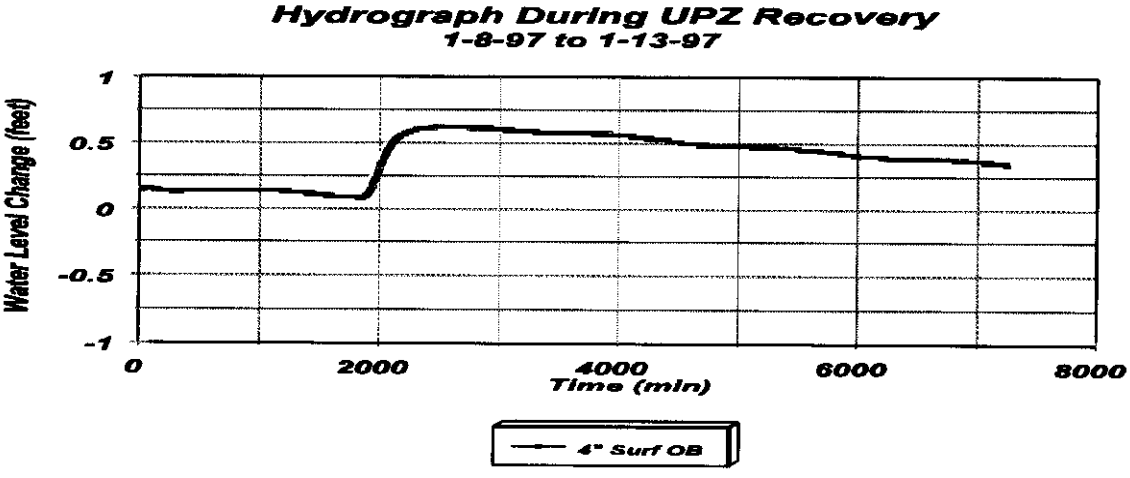
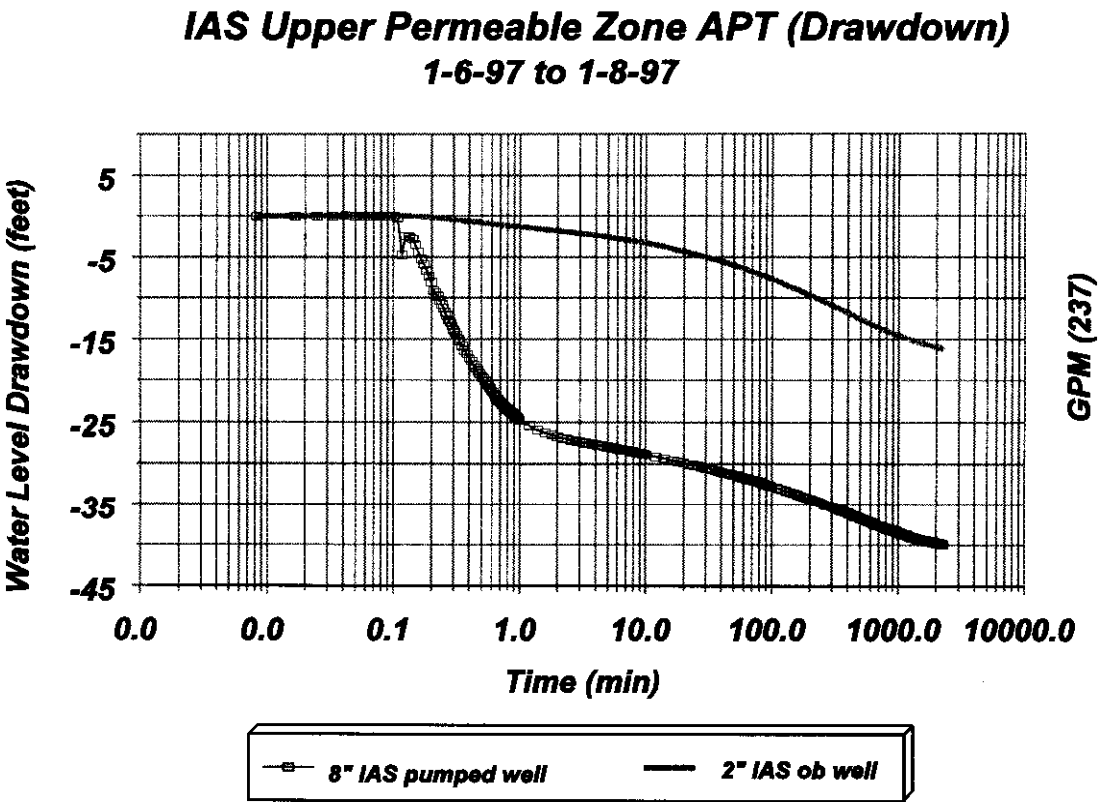


FIGURE 18. ROMP 5 CECIL WEBB

Upper Permeable Zone (IAS)
APT Hydrographs.



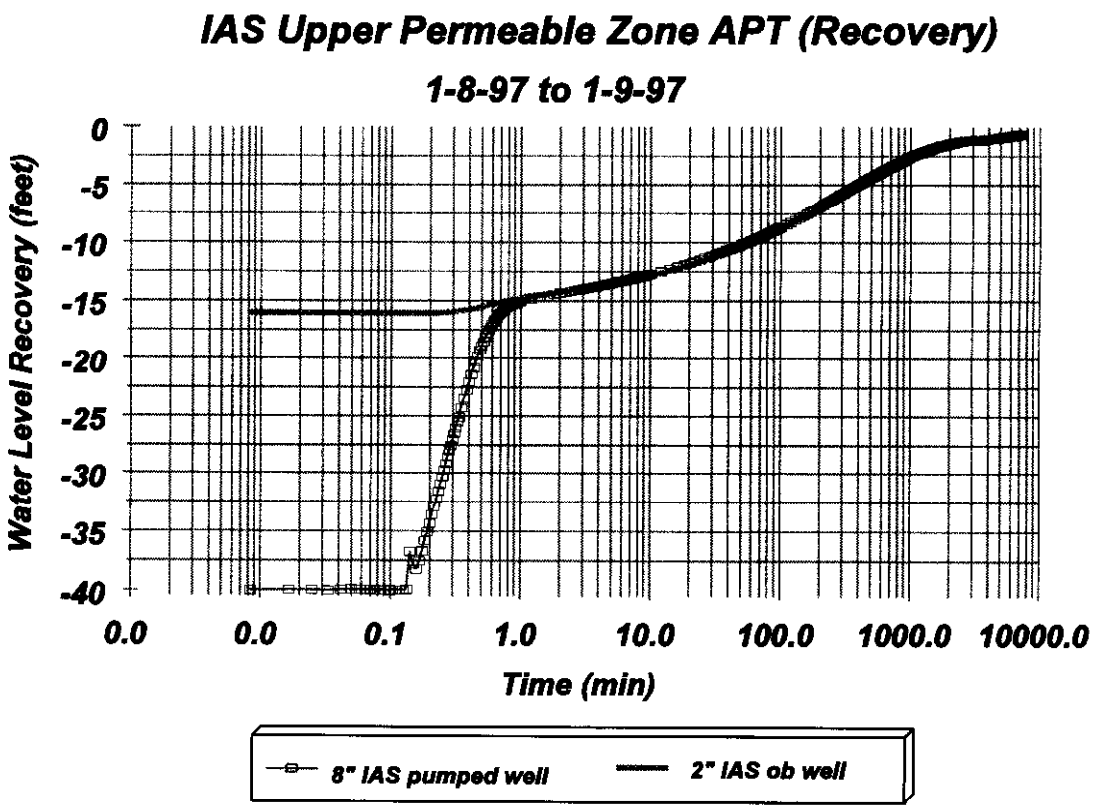
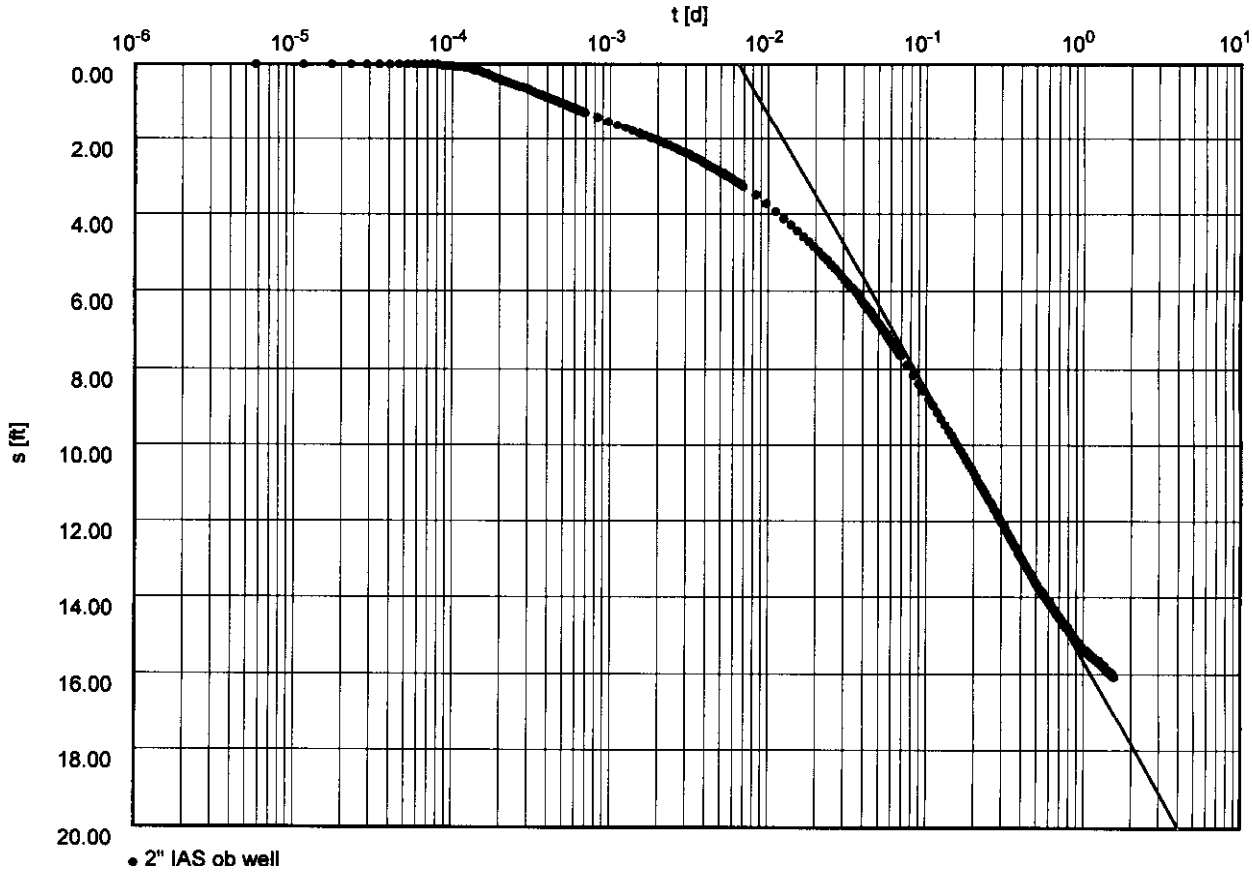


FIGURE 19. ROMP 5 CECIL WEBB

Upper Permeable Zone IAS Drawdown and Recovery Curves.

SWFWMD Geohydrologic Data Section 2379 Broad Street Brooksville, FL 34609-6899	Pumping test analysis Time-Drawdown-method after COOPER & JACOB Confined aquifer	FIGURE 20. ROMP 5 CECIL WEBB, Page 1 Project: ROMP 5 UPZ APT Evaluated by: MTG | Date: 9-8-1997

Pumping Test No. 1 DRAWDOWN DATA	Test conducted on: 1-6-97 to 1-8-97
8-inch Upper Permeable Zone IAS Well	
Discharge 237.00 U.S.gal/min	



Transmissivity [ft²/d]: 1.16×10^{3}

Hydraulic conductivity [ft/d]: 1.16×10^{1}

Aquifer thickness [ft]: 100.00

Storativity: 1.96×10^{-3}

Analysis of drawdown data in 2-inch observation well located 93 feet from pumped well

8-inch well pumped for 37.5 hours

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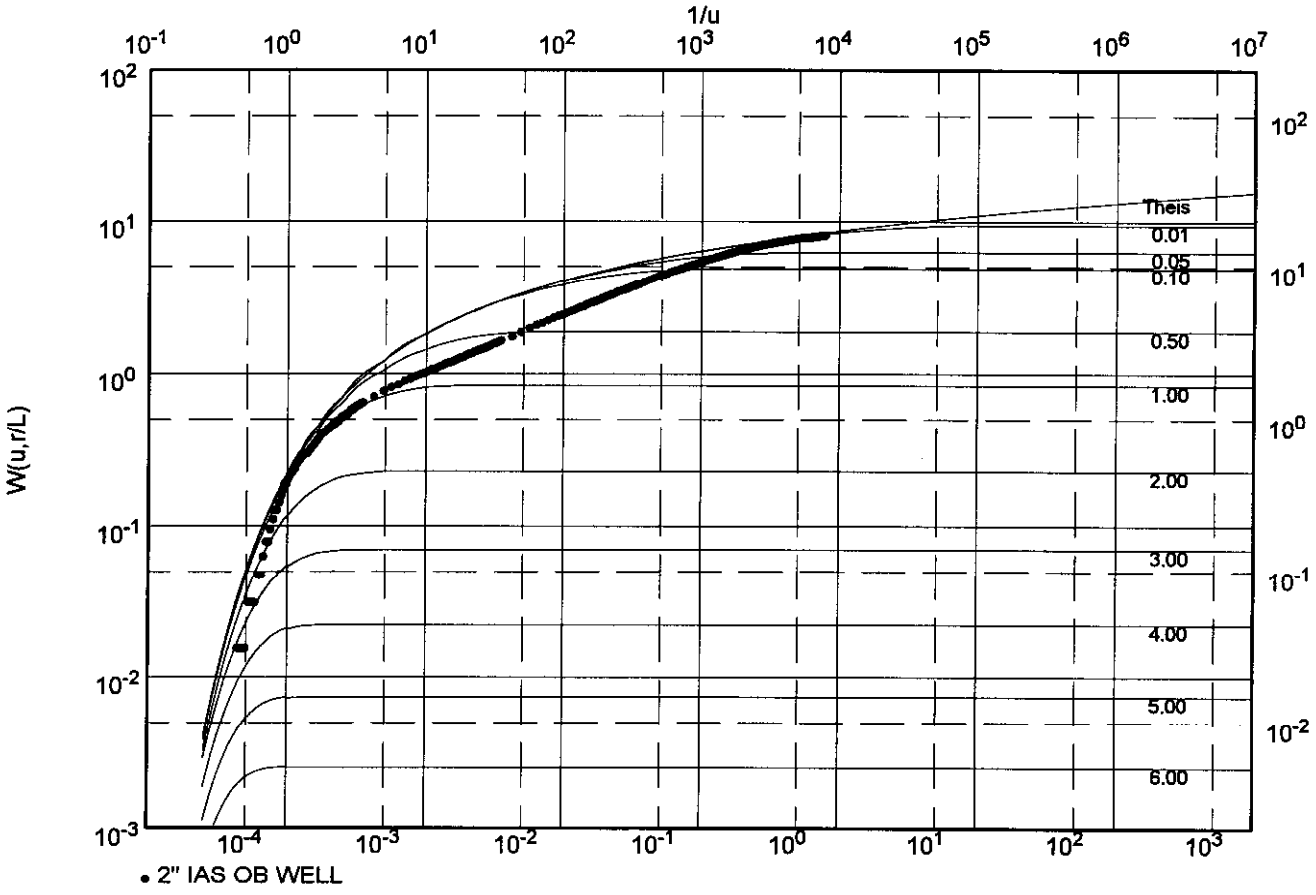
SWFWMD Geohydrologic Data Section 2379 Broad Street Brooksville, FL 34609-6899	Pumping test analysis HANTUSH's method Leaky aquifer, no aquitard storage	FIGURE 21. ROMP 5 CECIL WEBB, Pa Project: ROMP 5 UPZ APT Evaluated by: MTG | Date: 9-8-1997

Pumping Test No. 1 DRAWDOWN DATA	Test conducted on: 1-6-97 to 1-8-97
8-inch Upper Permeable Zone IAS Well	
Discharge 237.00 U.S.gal/min	



Transmissivity [ft²/d]: 1.81×10^{3}

Hydraulic conductivity [ft/d]: 1.81×10^{1}

Aquifer thickness [ft]: 100.00

Storativity: 1.64×10^{-4}

Analysis of drawdown data in 2-inch observation well located 93 feet from pumped well

8-inch well pumped for 37.5 hours

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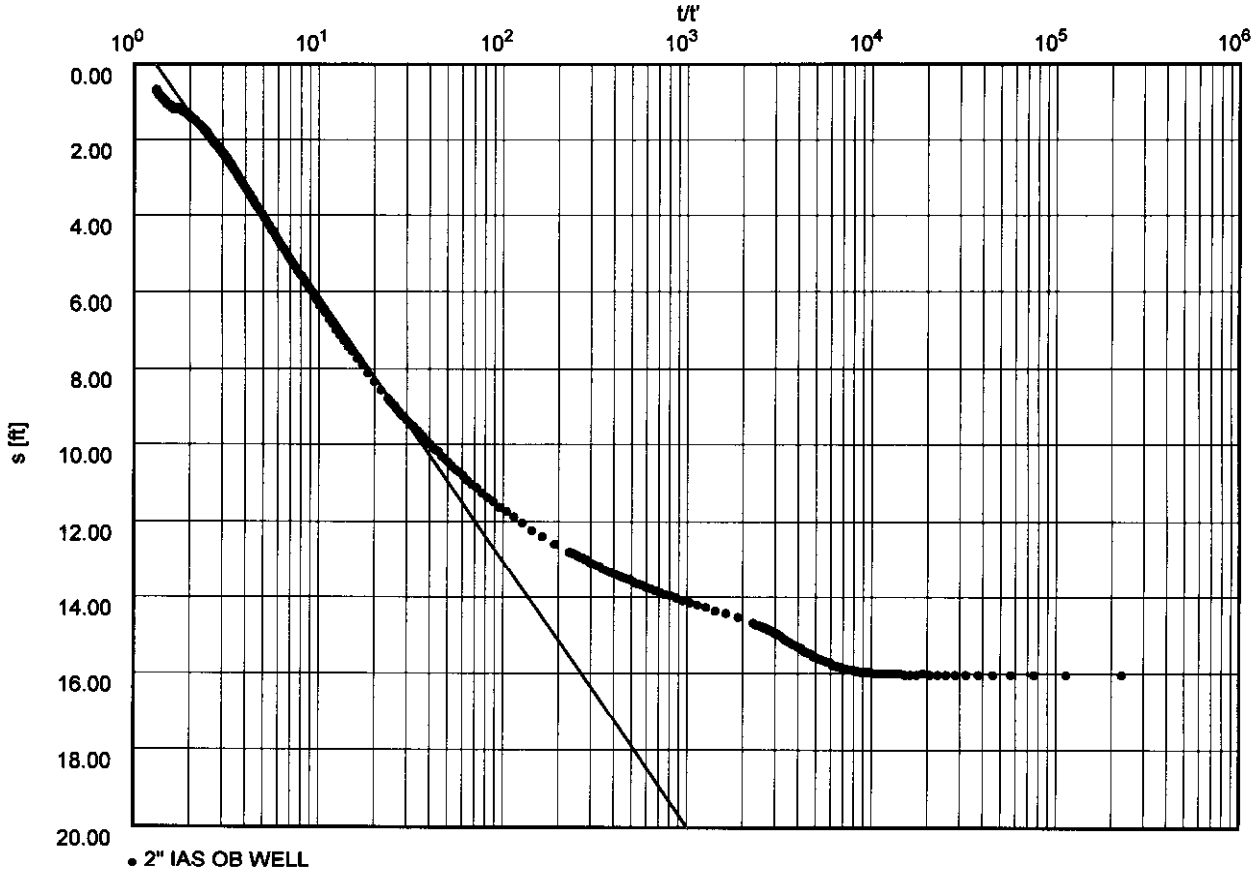
SWFWMD Geohydrologic Data Section 2379 Broad Street Brooksville, FL 34609-6899	Pumping test analysis Recovery method after THEIS & JACOB Confined aquifer	FIGURE 22. ROMP 5 CECIL WEBB, Page 1 Project: ROMP 5 UPZ APT Evaluated by: mtg | Date: 9-9-1997

Pumping Test No. 1 RECOVERY DATA	Test conducted on: 1-6-97 to 1-8-97
8-in Upper Permeable Zone IAS Well	
Discharge 237.00 U.S.gal/min	
	Pumping test duration: 1.58000 d



Transmissivity [ft²/d]: 1.20×10^3

Hydraulic conductivity [ft/d]: 1.20×10^1

Aquifer thickness [ft]: 100.00

Analysis of recovery data in 2-in observation well located 93 feet from pumped well

8-in well pumped for 37.5 hours

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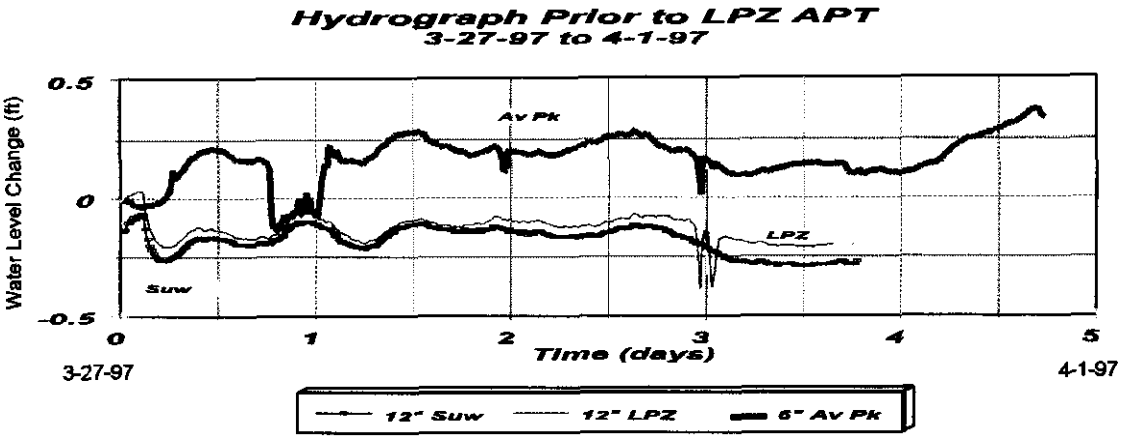
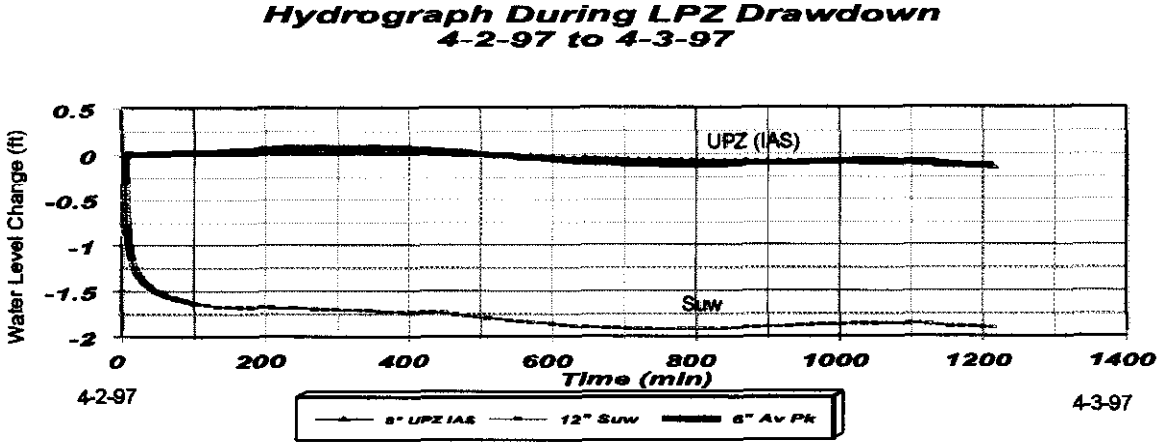




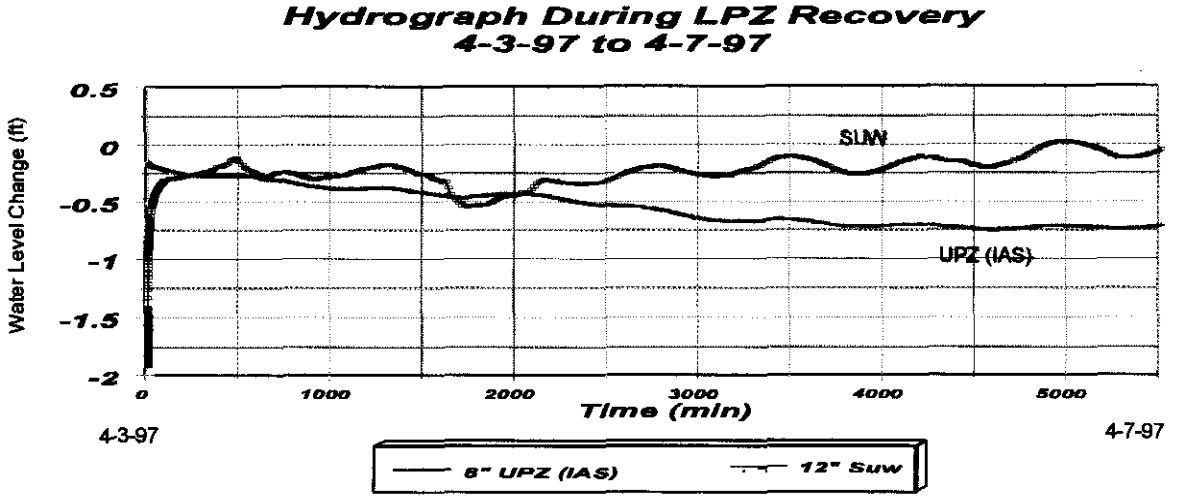
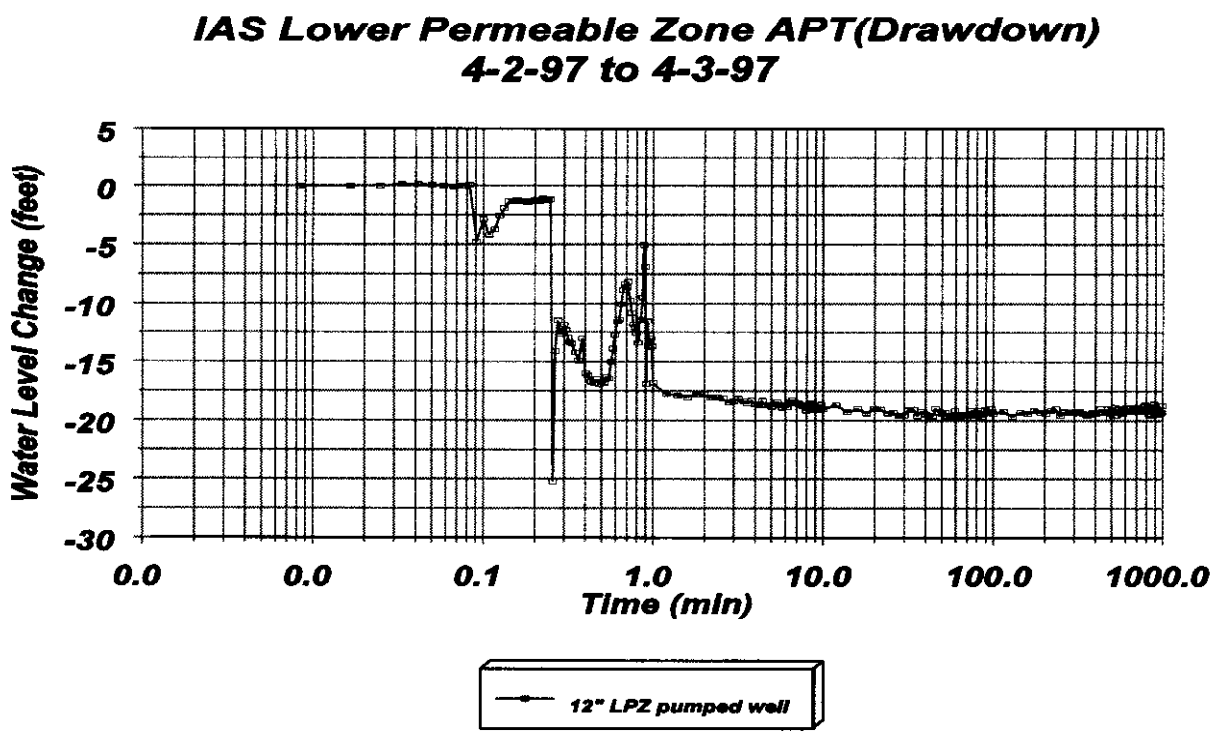


FIGURE 23. ROMP 5 CECIL WEBB

Lower Permeable Zone (IAS)
APT Hydrographs.

Fig23.wpg



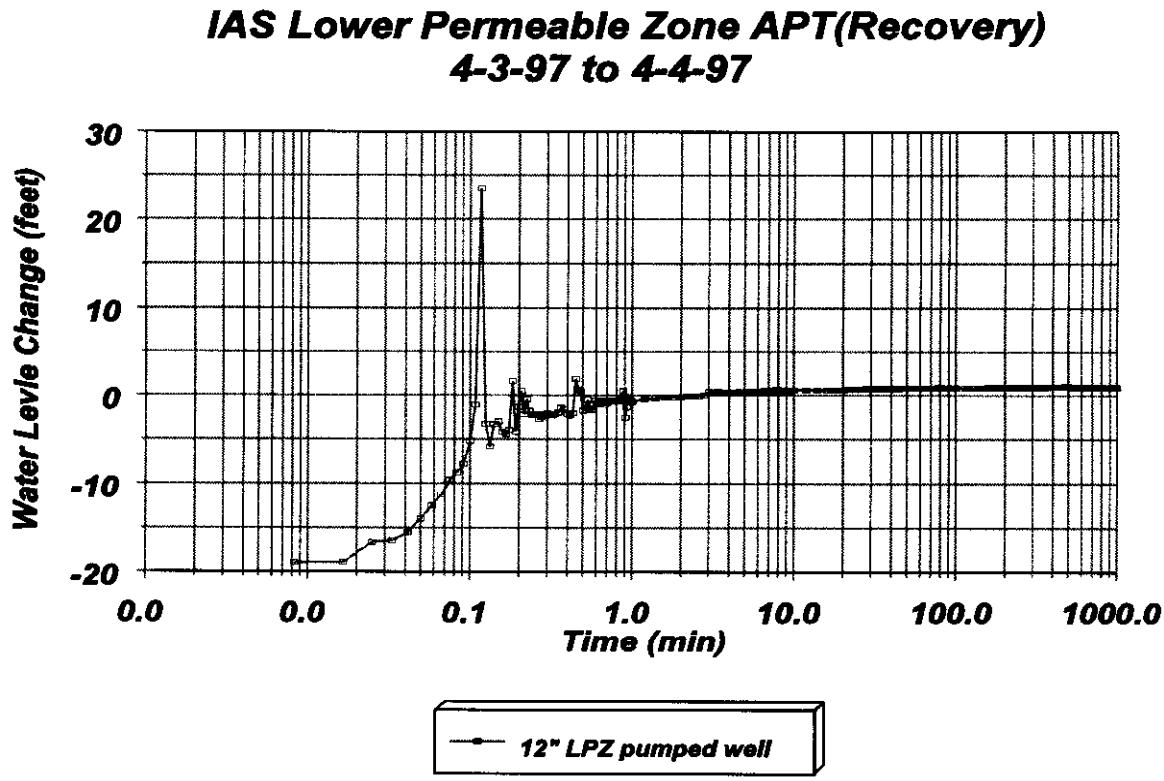
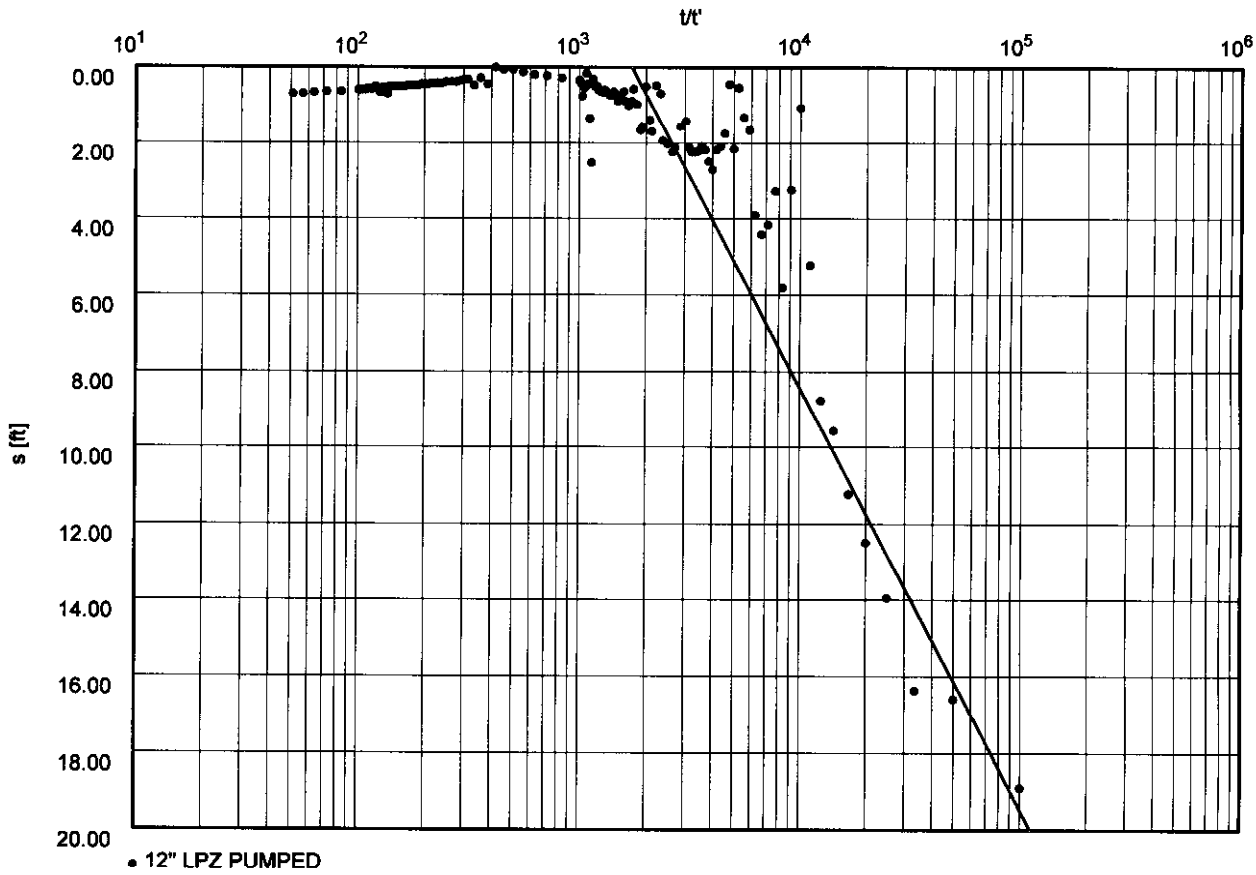


FIGURE 24. ROMP 5 CECIL WEBB

Lower Permeable Zone (IAS)
Drawdown and Recovery Curves.

SWFWMD Geohydrologic Data Section 2379 Broad Street Brooksville, FL 34609-6899	Pumping test analysis Recovery method after THEIS & JACOB Confined aquifer	FIGURE 25. ROMP 5 CECIL WEBB, Page 1 Project: ROMP 5 LPZ APT Evaluated by: MTG | Date: 9-10-97

Pumping Test No. 1 RECOVERY DATA	Test conducted on: 4-2-97 to 4-3-97
12-inch Lower Permeable Zone IAS Well	
Discharge 930.00 U.S.gal/min	
	Pumping test duration: 0.69444 d



Transmissivity [ft²/d]: 2.97×10^3

Hydraulic conductivity [ft/d]: 1.98×10^1

Aquifer thickness [ft]: 150.00

Analysis of 12-inch pumped well - no observation well available

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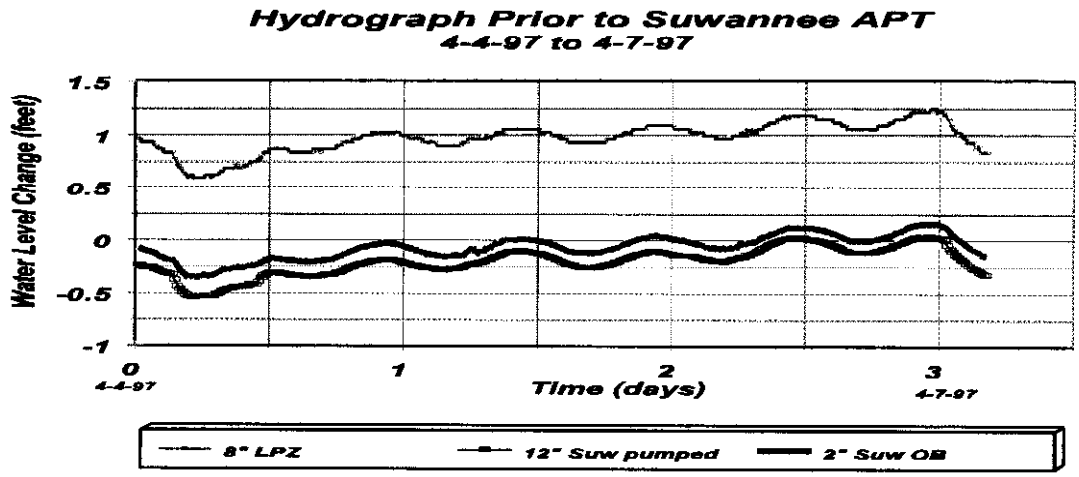
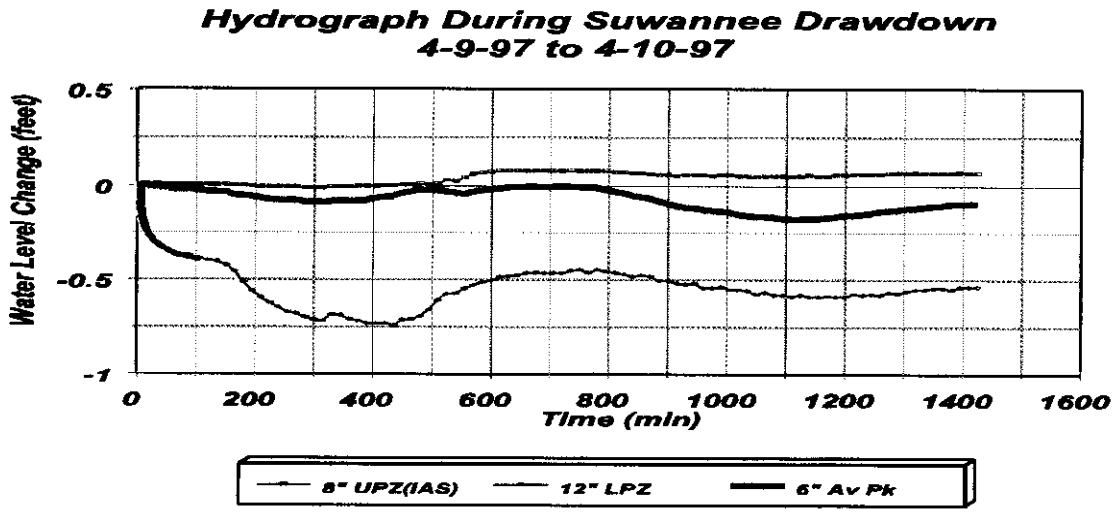




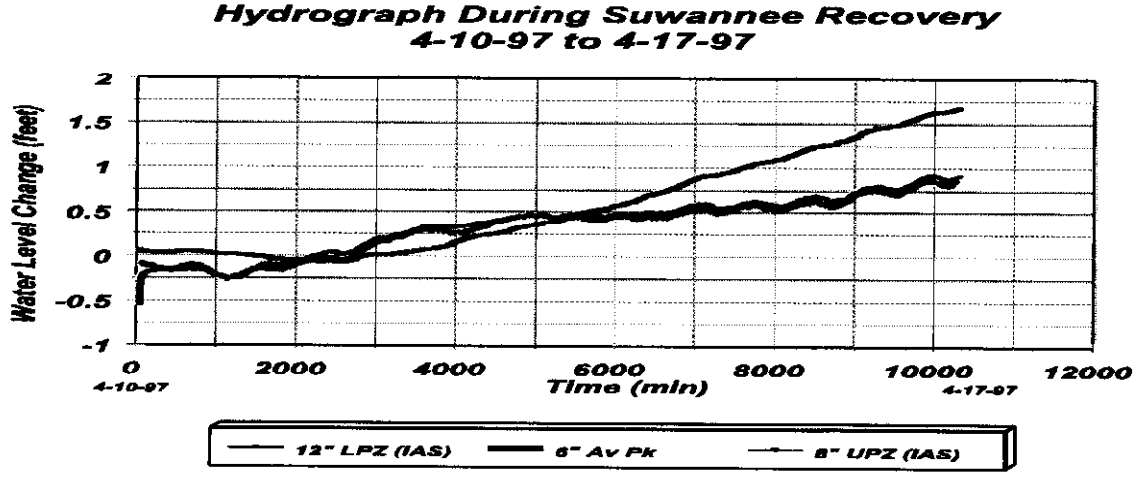
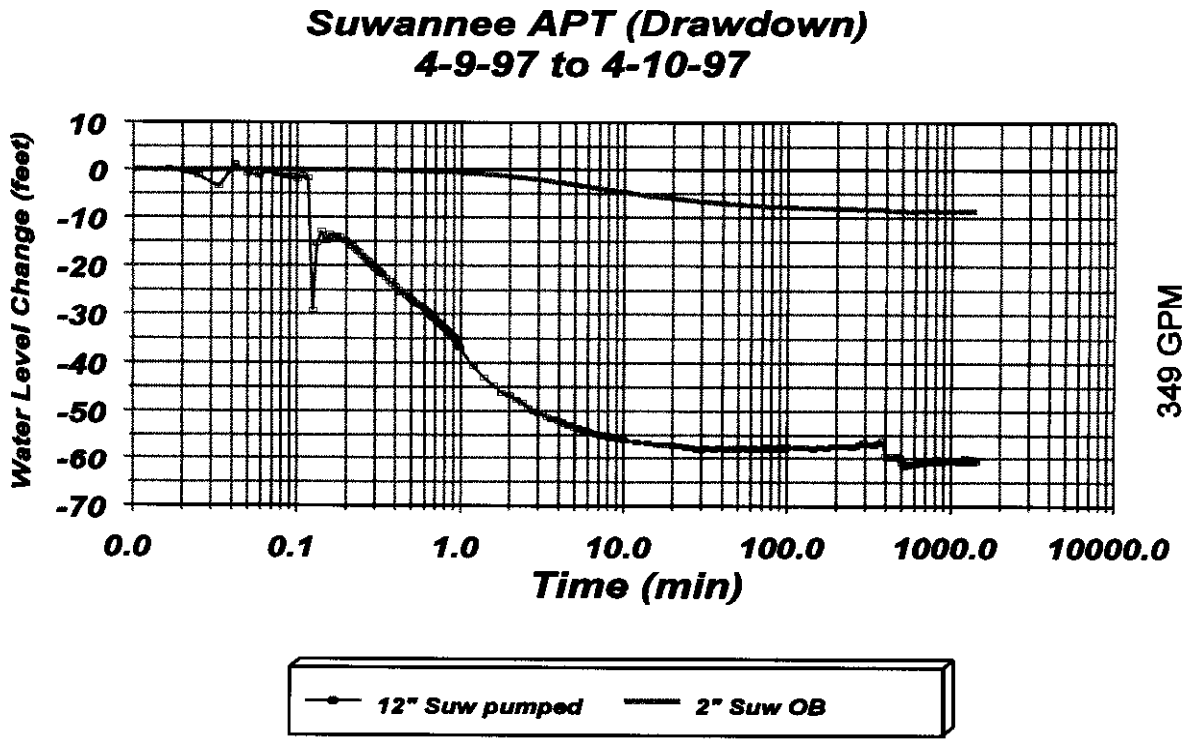


FIGURE 26. ROMP 5 CECIL WEBB

Suwannee/Upper Floridan APT Hydrographs.



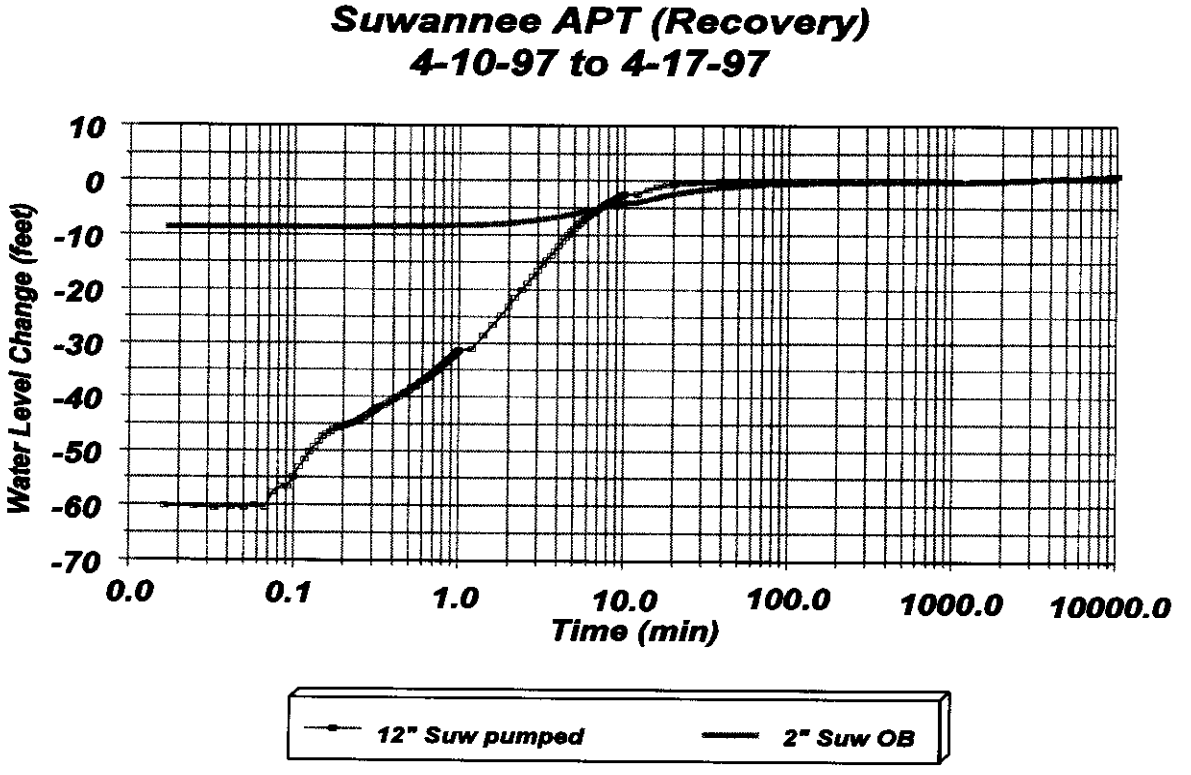


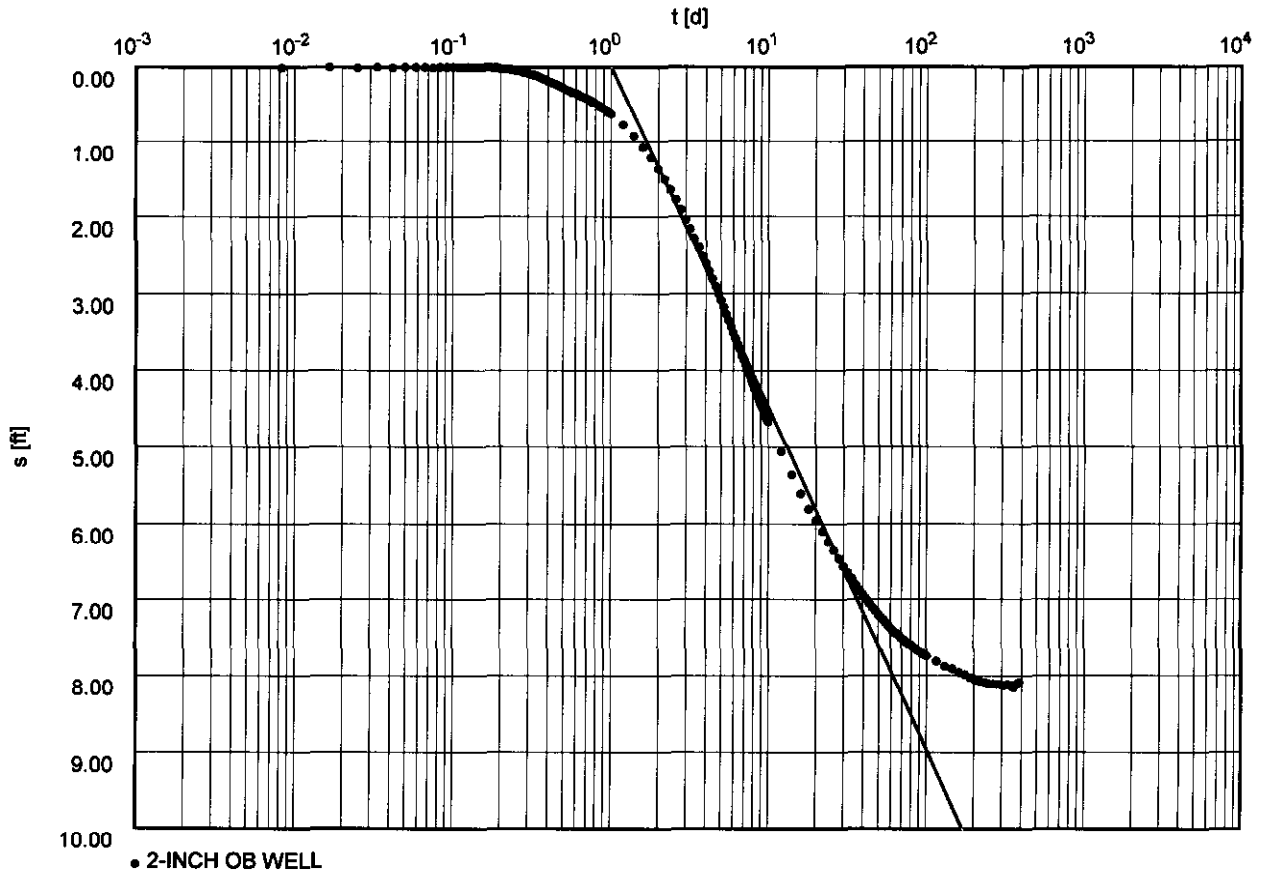
FIGURE 27. ROMP 5 CECIL WEBB

Suwannee/Upper Floridan
Drawdown and Recovery Curves.

Fig27.wpg

SWFWMD Geohydrologic Data Section 2379 Broad Street Brooksville, FL 34609-6899	Pumping test analysis Time-Drawdown-method after COOPER & JACOB Confined aquifer	FIGURE 28. ROMP 5 CECIL WEBB, Page 1 Project: ROMP 5 Suwannee APT Evaluated by: MTG | Date: 9-15-97

Pumping Test No. 1-DRAWDOWN PHASE	Test conducted on: 4-9-97
12" Suwannee (pumped)	
Discharge 349.00 U.S.gal/min	



Transmissivity [ft²/d]: 2.74×10^{3}

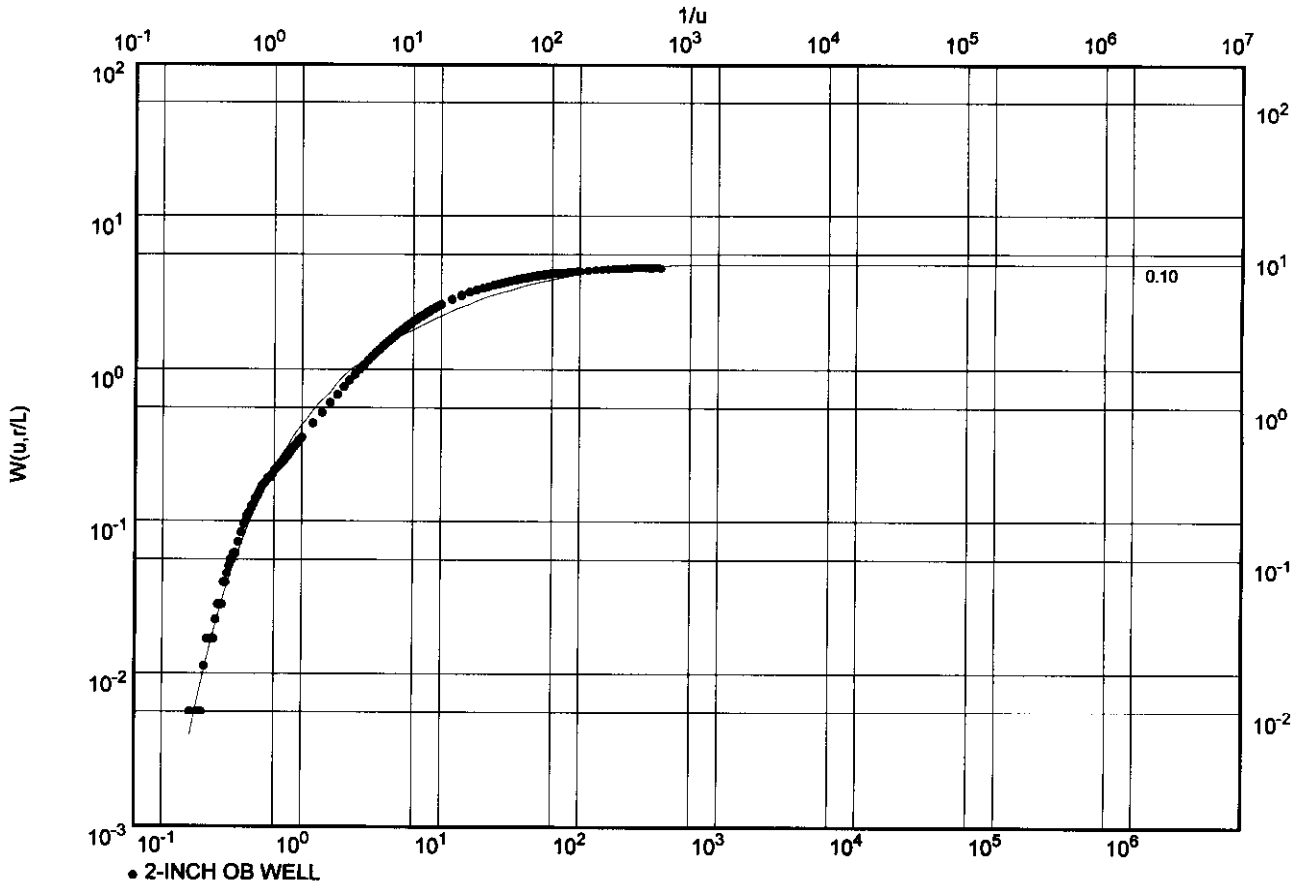
Hydraulic conductivity [ft/d]: 1.09×10^{1}

Aquifer thickness [ft]: 250.00

Storativity: 3.67×10^{-1}

SWFWMD Geohydrologic Data Section 2379 Broad Street Brooksville, FL 34609-6899	Pumping test analysis HANTUSH's method Leaky aquifer, no aquitard storage	FIGURE 29. ROMP 5 Cecil Webb, Page 1 Project: ROMP 5 SUWANNE APT Evaluated by: MTG | Date: 9-15-97

Pumping Test No. 1-DRAWDOWN PHASE	Test conducted on: 4-9-97
12" Suwannee (pumped well)	
Discharge 349.00 U.S.gal/min	



Transmissivity [ft²/d]: 3.00×10^{3}

Hydraulic conductivity [ft/d]: 1.20×10^{1}

Aquifer thickness [ft]: 250.00

Storativity: 4.48×10^{-1}

Hydraulic resistance (c) [d]: 5.62×10^{2}

Analysis of drawdown data in 2-inch observation well located 130 feet from 12-inch pumped well

12-inch well pumped for 24 hours

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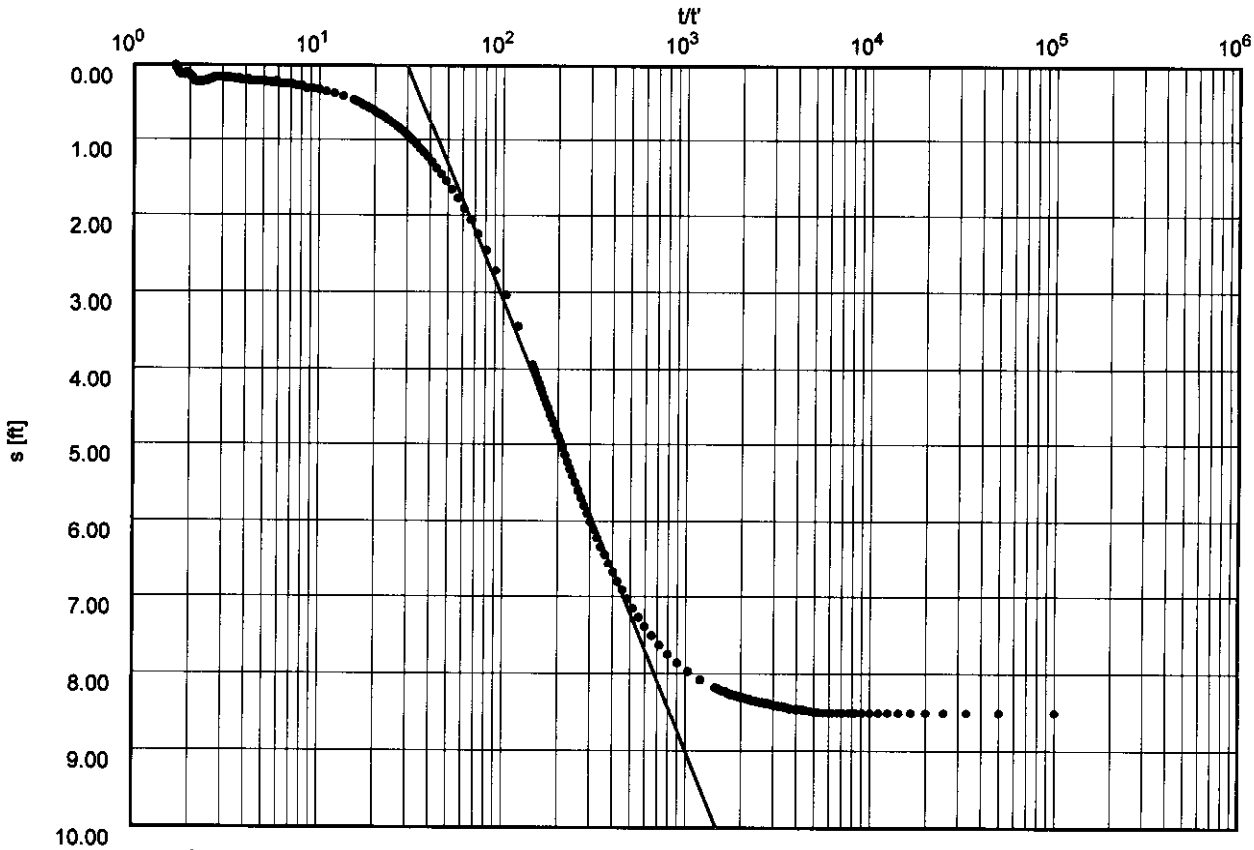
SWFWMD Geohydrologic Data Section 2379 Broad Street Brooksville, FL 34609-6899	Pumping test analysis Recovery method after THEIS & JACOB Confined aquifer	Figure 30. ROMP 5 CECIL WEBB, Page 1 Project: ROMP 5 Suwannee APT Evaluated by: MTG | Date: 9-15-1997

Pumping Test No. 1-RECOVERY PHASE	Test conducted on: 4-10-97 to 4-17-97
12-inch Suwannee (pumped)	
Discharge 349.00 U.S.gal/min	
	Pumping test duration: 1.00000 d



• 2-INCH OB WELL

Transmissivity [ft²/d]: 2.08×10^3

Hydraulic conductivity [ft/d]: 8.33×10^0

Aquifer thickness [ft]: 250.00

Analysis of recovery data in 2-inch ob well located 130 feet from pumped well

12-inch well pumped for 24 hours

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TABLES

Table 1. Well Construction Details

Well No.	Formation Monitored	Aquifer Monitored	Casing Interval	Monitored Interval
MW-1	UDS, Caloosahatchee, Tamiami Fm.	Surficial	12" PVC Casing (+2.5 - 5')	12" PVC Screen (5' -85')
MW-2	Peace River Fm.	Upper Permeable Zone Intermediate Aquifer System	8" PVC Casing (+2.5' - 130')	8" PVC Screen (130' - 230')
MW-3	Undifferentiated Arcaida Fm, Nocatee Fm.	Lower Permeable Zone Intermediate Aquifer System	12" Steel Casing (+2.5 - 450')	12" Open Hole (450' - 600')
MW-4	Suwannee Limestone	Upper Floridan Aquifer	12" Steel Casing (+2.5' - 720')	12" Open Hole (720' - 970')
MW-5	UDS, Caloosahatchee, Tamiami Fm	Surficial	4" PVC Casing (+2.5' - 5')	4" PVC Screen (5' 85')
MW-6	Avon Park Fm.	Upper Floridan Aquifer	6" PVC Casing (+3.0' - 1,350')	11" Open Hole (1,350-1,400')
Temporary	Peace River Fm	Upper Permeable Zone Intermediate Aquifer System	2" PVC Casing (+3' - 130')	2" PVC Screen (130' - 230')
Temporary	Suwannee Limestone	Upper Floridan Aquifer	2"PVC Casing (+4 - 710')	3" Open Hole (710' - 970')

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Table 2. Aquifer Hydraulic Values

Aquifer Tested	Well Analyzed	Test Phase	Method	Transmissivity (T) (Feet^2/day)	Hydraulic Conductivity (K_h) (Feet/day)	Storativtiy (S)
Surficial	4" OB	Drawdown	Neuman	1.58×10^3	1.86×10^1	N/A
	4" OB	Drawdown	Cooper & Jacob	3.32×10^3	3.91×10^1	N/A
	4" OB	Recovery	Theis & Jacob	3.44×10^3	4.05×10^1	N/A
			Average	**2.78×10^3**	**3.27×10^1**	N/A
Upper Permeable Zone Intermediate Aquifer System	2" OB	Drawdown	Cooper & Jacob	1.16×10^3	1.16×10^1	1.96×10^{-3}
	2" OB	Drawdown	Hantush	1.81×10^3	1.81×10^1	1.64×10^{-4}
	2" OB	Recovery	Theis & Jacob	1.20×10^3	1.20×10^1	N/A
			Average	**1.39×10^3**	**1.39×10^1**	**2.12×10^{-3}**
Lower Permeable Zone Intermediate Aquifer System	12" Pumped	Recovery	Theis & Jacob	2.97×10^3	1.98×10^1	N/A
Suwannee Upper Floridan	2" OB	Drawdown	Cooper & Jacob	2.74×10^3	1.09×10^1	3.67×10^{-1}
	2" OB	Drawdown	Hantush	3.00×10^3	1.20×10^1	4.48×10^{-1}
	2" OB	Recovery	Theis & Jacob	2.08×10^3	8.33×10^0	N/A
			Average	**2.61×10^3**	**1.04×10^1**	**4.08×10^{-1}**

apttbl.wpd

APPENDIX A

Data Logger Water Level Measurements for Surficial APT.

SE2000
Environmental Logger
01/13 18:55
Unit# 577 Test 2

Setups:	INPUT 1	INPUT 2	INPUT 3
Type	Level (F)	Level (F)	Level (F)
Mode	Surface	Surface	Surface
Reference	0.000	0.000	0.000
PSI at Ref.	15.318	22.862	8.661
SG	1.000	1.000	1.000
Linearity	0.036	0.014	0.073
Scale factor	99.651	49.817	14.905
Offset	-0.083	-0.107	0.009
Delay mSEC	50.000	50.000	50.000

Step 0 01/13 16:39:11 *SURFD-A.WB2*

SURFICIAL DRAWDOWN PHASE

Elapsed Time (days)	Input 1 (ft Surficial pressure)	Input 2 (ft Shallow Well)	Input 3 (ft Upper Floridan Well)
0.025	-0.031	0.000	0.000
0.033	0.000	0.000	0.000
0.042	-0.094	0.000	0.000
0.050	-0.062	0.000	0.000
0.058	-0.062	0.000	0.000
0.067	-0.062	0.000	0.000
0.075	-0.062	0.000	-0.004
0.083	-0.062	0.000	0.000
0.092	-0.062	0.000	0.000
0.100	-0.062	0.000	0.000
0.108	-0.062	0.000	0.000
0.117	-0.031	0.000	0.000
0.125	-0.062	0.000	0.000
0.133	-0.282	0.000	-0.004
0.142	-0.313	0.000	0.000
0.150	-0.345	0.000	0.000
0.158	-0.439	0.000	0.000
0.167	-0.533	0.000	0.000
0.175	-0.596	-0.015	0.000
0.183	-0.658	-0.015	-0.004
0.192	-0.721	-0.015	-0.004
0.200	-0.784	-0.015	-0.004
0.208	-0.878	-0.015	0.000
0.217	-0.909	-0.015	0.000
0.225	-0.972	-0.031	0.000
0.233	-1.035	-0.031	0.000
0.242	-1.097	-0.031	-0.004
0.250	-1.160	-0.031	-0.004
0.258	-1.192	-0.047	0.000
0.267	-1.254	-0.047	0.000
0.275	-1.317	-0.047	0.000
0.283	-1.380	-0.047	0.000
0.292	-1.411	-0.047	0.000
0.300	-1.474	-0.062	-0.004
0.308	-1.505	-0.062	0.000
0.317	-1.568	-0.062	0.000

SE2000
Environmental Logger
01/16 09:36
Unit# 577 Test 2

Setups:	INPUT 1	INPUT 2	INPUT 3
Type	Level (F)	Level (F)	Level (F)
Mode	Surface	Surface	Surface
Reference	0.000	0.000	0.000
PSI at Ref.	15.318	22.862	8.661
SG	1.000	1.000	1.000
Linearity	0.036	0.014	0.073
Scale factor	99.651	49.817	14.905
Offset	-0.083	-0.107	0.009
Delay mSEC	50.000	50.000	50.000

Step 1 01/16 09:00:10

SURFICIAL RECOVERY PHASE

Elapsed Time (days)	Input 1 (ft Surficial pressure)	Input 2 (ft Shallow Well)	Input 3 (ft Upper Floridan Well)
0.000	-4.705	-1.129	0.594
0.008	-4.611	-1.113	0.594
0.017	-4.454	-1.129	0.594
0.025	-4.234	-1.129	0.594
0.033	-4.642	-1.129	0.594
0.042	-4.360	-1.129	0.594
0.050	-4.266	-1.129	0.594
0.058	-4.203	-1.129	0.594
0.067	-4.109	-1.129	0.594
0.075	-4.015	-1.113	0.594
0.083	-3.952	-1.113	0.594
0.092	-3.858	-1.113	0.594
0.100	-3.795	-1.113	0.594
0.108	-3.732	-1.113	0.594
0.117	-3.638	-1.113	0.594
0.125	-3.576	-1.113	0.594
0.133	-3.513	-1.097	0.594
0.142	-3.450	-1.097	0.594
0.150	-3.387	-1.097	0.594
0.158	-3.293	-1.097	0.594
0.167	-3.231	-1.097	0.594
0.175	-3.168	-1.097	0.594
0.183	-3.136	-1.082	0.594
0.192	-3.074	-1.082	0.594
0.200	-3.011	-1.082	0.594
0.208	-2.948	-1.066	0.594
0.217	-2.885	-1.066	0.594
0.225	-2.854	-1.066	0.594
0.233	-2.791	-1.066	0.594
0.242	-2.760	-1.066	0.594
0.250	-2.697	-1.050	0.594
0.258	-2.635	-1.050	0.594
0.267	-2.603	-1.050	0.594
0.275	-2.540	-1.050	0.594
0.283	-2.509	-1.035	0.594
0.292	-2.478	-1.035	0.594

SURFICIAL DRAWDOWN PHASE

Elapsed Time (min)	Input 1 12" Surficial pressure	Input 2 4" Surficial kPa	Input 3 8" Upper Perm Zone (kPa)
0.325	-1.599	-0.078	0.000
0.333	-1.662	-0.078	0.000
0.350	-1.725	-0.078	0.000
0.367	-1.819	-0.094	0.000
0.383	-1.882	-0.109	0.000
0.400	-1.976	-0.109	0.000
0.417	-2.039	-0.125	0.000
0.433	-2.101	-0.125	0.000
0.450	-2.164	-0.141	-0.004
0.467	-2.227	-0.141	0.000
0.483	-2.321	-0.156	0.000
0.500	-2.352	-0.156	0.000
0.517	-2.415	-0.172	0.000
0.533	-2.478	-0.188	0.000
0.550	-2.509	-0.188	0.000
0.567	-2.572	-0.188	0.000
0.583	-2.635	-0.203	0.000
0.600	-2.666	-0.203	0.000
0.617	-2.697	-0.219	0.000
0.633	-2.760	-0.219	0.000
0.650	-2.791	-0.235	0.000
0.667	-2.854	-0.250	0.000
0.683	-2.885	-0.250	0.000
0.700	-2.917	-0.250	0.000
0.717	-2.948	-0.266	0.000
0.733	-2.980	-0.266	0.000
0.750	-3.011	-0.282	0.000
0.767	-3.042	-0.282	0.000
0.783	-3.074	-0.298	0.000
0.800	-3.105	-0.298	0.000
0.817	-3.136	-0.298	0.000
0.833	-3.168	-0.313	0.000
0.850	-3.199	-0.313	0.000
0.867	-3.199	-0.313	0.000
0.883	-3.231	-0.329	0.000
0.900	-3.262	-0.329	0.000
0.917	-3.293	-0.329	-0.004
0.933	-3.325	-0.345	0.000
0.950	-3.356	-0.360	0.000
0.967	-3.356	-0.360	0.000
0.983	-3.387	-0.360	0.000
1.000	-3.419	-0.376	0.000
1.200	-3.576	-0.423	0.000
1.400	-3.701	-0.470	0.000
1.600	-3.795	-0.517	0.000
1.800	-3.858	-0.548	0.000
2.000	-3.889	-0.580	0.000
2.200	-3.952	-0.611	0.000
2.400	-4.015	-0.643	0.000
2.600	-4.046	-0.658	0.000
2.800	-4.078	-0.674	0.000
3.000	-4.078	-0.705	0.000

SURFICIAL RECOVERY PHASE

Elapsed Time (min)	Input 1 12" Surficial pressure	Input 2 4" Surficial kPa	Input 3 8" Upper Perm Zone (kPa)
0.300	-2.415	-1.035	0.594
0.308	-2.384	-1.035	0.594
0.317	-2.352	-1.035	0.594
0.325	-2.321	-1.019	0.594
0.333	-2.258	-1.019	0.594
0.350	-2.195	-1.003	0.594
0.367	-2.133	-1.003	0.599
0.383	-2.070	-0.988	0.594
0.400	-2.007	-0.988	0.594
0.417	-1.944	-0.972	0.594
0.433	-1.882	-0.972	0.594
0.450	-1.819	-0.956	0.594
0.467	-1.788	-0.956	0.594
0.483	-1.725	-0.941	0.594
0.500	-1.662	-0.925	0.594
0.517	-1.631	-0.925	0.594
0.533	-1.568	-0.909	0.594
0.550	-1.537	-0.909	0.594
0.567	-1.505	-0.909	0.594
0.583	-1.443	-0.894	0.594
0.600	-1.411	-0.894	0.594
0.617	-1.380	-0.878	0.594
0.633	-1.348	-0.862	0.594
0.650	-1.317	-0.862	0.594
0.667	-1.286	-0.862	0.594
0.683	-1.254	-0.846	0.594
0.700	-1.223	-0.846	0.594
0.717	-1.192	-0.831	0.594
0.733	-1.160	-0.831	0.594
0.750	-1.129	-0.815	0.594
0.767	-1.129	-0.815	0.594
0.783	-1.097	-0.815	0.594
0.800	-1.066	-0.799	0.594
0.817	-1.066	-0.799	0.594
0.833	-1.035	-0.784	0.594
0.850	-1.003	-0.784	0.594
0.867	-0.972	-0.784	0.594
0.883	-0.972	-0.768	0.594
0.900	-0.941	-0.768	0.594
0.917	-0.941	-0.752	0.594
0.933	-0.909	-0.752	0.594
0.950	-0.909	-0.752	0.594
0.967	-0.878	-0.737	0.594
0.983	-0.878	-0.737	0.594
1.000	-0.846	-0.737	0.594
1.200	-0.721	-0.674	0.594
1.400	-0.627	-0.627	0.594
1.600	-0.564	-0.580	0.594
1.800	-0.501	-0.548	0.594
2.000	-0.439	-0.517	0.594
2.200	-0.407	-0.486	0.594
2.400	-0.376	-0.454	0.594

SURFICIAL DRAWDOWN PHASE

Elapsed Time (min)	Input 1 12" Surficial corrected	Input 2 4" Surficial Diff.	Input 3 8" Upper Perm Zone (NAS)
3.200	-4.109	-0.721	0.000
3.400	-4.140	-0.737	0.000
3.600	-4.172	-0.752	0.000
3.800	-4.172	-0.768	0.000
4.000	-4.203	-0.784	0.000
4.200	-4.234	-0.799	0.000
4.400	-4.234	-0.815	0.000
4.600	-4.266	-0.815	0.000
4.800	-4.266	-0.831	0.000
5.000	-4.266	-0.846	0.000
5.200	-4.297	-0.862	0.000
5.400	-4.297	-0.862	0.000
5.600	-4.328	-0.862	0.000
5.800	-4.328	-0.878	0.000
6.000	-4.328	-0.894	0.000
6.200	-4.360	-0.894	0.000
6.400	-4.360	-0.909	0.000
6.600	-4.360	-0.909	0.000
6.800	-4.391	-0.909	0.000
7.000	-4.391	-0.925	0.000
7.200	-4.391	-0.925	0.000
7.400	-4.391	-0.941	0.000
7.600	-4.423	-0.941	0.000
7.800	-4.423	-0.941	0.000
8.000	-4.423	-0.956	0.000
8.200	-4.454	-0.956	0.000
8.400	-4.423	-0.956	0.000
8.600	-4.454	-0.972	0.000
8.800	-4.454	-0.972	0.000
9.000	-4.454	-0.988	0.000
9.200	-4.454	-0.988	0.000
9.400	-4.454	-0.988	0.000
9.600	-4.454	-0.988	0.000
9.800	-4.485	-1.003	0.000
10.000	-4.485	-1.003	0.000
12.000	-4.548	-1.035	0.000
14.000	-4.579	-1.066	0.000
16.000	-4.611	-1.082	0.004
18.000	-4.611	-1.097	0.000
20.000	-4.611	-1.113	0.000
22.000	-4.642	-1.113	0.004
24.000	-4.611	-1.129	0.004
26.000	-4.642	-1.129	0.004
28.000	-4.642	-1.129	0.004
30.000	-4.642	-1.129	0.004
32.000	-4.642	-1.144	0.004
34.000	-4.642	-1.144	0.009
36.000	-4.674	-1.144	0.009
38.000	-4.642	-1.144	0.009
40.000	-4.674	-1.160	0.009
42.000	-4.642	-1.160	0.009
44.000	-4.674	-1.160	0.009

SURFICIAL RECOVERY PHASE

Elapsed Time (min)	Input 1 12" Surficial corrected	Input 2 8" Surficial Diff.	Input 3 8" Upper Perm Zone (NAS)
2.600	-0.345	-0.439	0.594
2.800	-0.345	-0.407	0.594
3.000	-0.313	-0.392	0.594
3.200	-0.282	-0.376	0.594
3.400	-0.282	-0.360	0.594
3.600	-0.282	-0.345	0.594
3.800	-0.282	-0.345	0.589
4.000	-0.250	-0.313	0.594
4.200	-0.250	-0.313	0.594
4.400	-0.219	-0.298	0.594
4.600	-0.219	-0.282	0.594
4.800	-0.188	-0.266	0.594
5.000	-0.188	-0.266	0.594
5.200	-0.188	-0.250	0.594
5.400	-0.188	-0.250	0.594
5.600	-0.156	-0.235	0.594
5.800	-0.156	-0.235	0.589
6.000	-0.156	-0.219	0.594
6.200	-0.156	-0.219	0.594
6.400	-0.125	-0.203	0.594
6.600	-0.125	-0.203	0.594
6.800	-0.125	-0.188	0.594
7.000	-0.125	-0.188	0.594
7.200	-0.125	-0.188	0.594
7.400	-0.094	-0.172	0.594
7.600	-0.094	-0.156	0.594
7.800	-0.094	-0.156	0.594
8.000	-0.094	-0.156	0.594
8.200	-0.094	-0.156	0.594
8.400	-0.062	-0.156	0.594
8.600	-0.062	-0.141	0.594
8.800	-0.062	-0.141	0.594
9.000	-0.062	-0.141	0.594
9.200	-0.062	-0.125	0.594
9.400	-0.062	-0.125	0.594
9.600	-0.062	-0.125	0.594
9.800	-0.031	-0.125	0.594
10.000	-0.031	-0.109	0.594
12.000	-0.062	-0.078	0.599
14.000	-0.031	-0.047	0.599
16.000	0.000	-0.047	0.594
18.000	0.000	-0.015	0.599
20.000	0.031	-0.015	0.599
22.000	0.031	0.000	0.599
24.000	0.031	0.015	0.599
26.000	0.062	0.015	0.599
28.000	0.062	0.031	0.599
30.000	0.062	0.031	0.599
32.000	0.062	0.031	0.599
34.000	0.062	0.047	0.599
36.000	0.062	0.047	0.603
38.000	0.094	0.047	0.599

SURFICIAL DRAWDOWN PHASE

Elapsed Time (min)	Input 1 12" Surficial (psig)	Input 2 4" Surficial (psi)	Input 3 8" Upper Perm Zone (kPa)
46.000	-4.674	-1.160	0.009
48.000	-4.642	-1.160	0.004
50.000	-4.674	-1.160	0.009
52.000	-4.674	-1.160	0.004
54.000	-4.674	-1.160	0.009
56.000	-4.674	-1.176	0.004
58.000	-4.674	-1.176	0.004
60.000	-4.674	-1.176	0.004
62.000	-4.674	-1.176	0.004
64.000	-4.674	-1.176	0.004
66.000	-4.674	-1.176	0.004
68.000	-4.674	-1.176	0.000
70.000	-4.674	-1.176	0.004
72.000	-4.705	-1.176	0.004
74.000	-4.705	-1.176	0.000
76.000	-4.705	-1.176	0.004
78.000	-4.705	-1.176	0.004
80.000	-4.674	-1.176	0.000
82.000	-4.674	-1.176	0.004
84.000	-4.705	-1.176	0.004
86.000	-4.705	-1.192	0.004
88.000	-4.705	-1.192	0.004
90.000	-4.705	-1.192	0.004
92.000	-4.705	-1.192	0.004
94.000	-4.705	-1.192	0.004
96.000	-4.705	-1.192	0.004
98.000	-4.705	-1.192	0.004
100.000	-4.705	-1.192	0.004
110.000	-4.736	-1.192	0.004
120.000	-4.736	-1.192	0.004
130.000	-4.705	-1.207	0.004
140.000	-4.705	-1.207	0.004
150.000	-4.736	-1.207	0.004
160.000	-4.736	-1.223	0.009
170.000	-4.736	-1.223	0.009
180.000	-4.768	-1.223	0.009
190.000	-4.768	-1.223	0.009
200.000	-4.768	-1.239	0.009
210.000	-4.736	-1.239	0.009
220.000	-4.768	-1.239	0.014
230.000	-4.768	-1.239	0.014
240.000	-4.799	-1.239	0.018
250.000	-4.768	-1.254	0.014
260.000	-4.768	-1.254	0.018
270.000	-4.799	-1.254	0.018
280.000	-4.799	-1.254	0.018
290.000	-4.799	-1.254	0.018
300.000	-4.799	-1.254	0.023
310.000	-4.799	-1.254	0.023
320.000	-4.799	-1.254	0.018
330.000	-4.799	-1.270	0.018
340.000	-4.799	-1.270	0.018

SURFICIAL RECOVERY PHASE

Elapsed Time (min)	Input 1 12" Surficial (psig)	Input 2 4" Surficial (psi)	Input 3 8" Upper Perm Zone (kPa)
40.000	0.094	0.047	0.599
42.000	0.062	0.047	0.603
44.000	0.062	0.047	0.603
46.000	0.062	0.062	0.599
48.000	0.062	0.062	0.603
50.000	0.062	0.062	0.603
52.000	0.094	0.062	0.603
54.000	0.094	0.062	0.603
56.000	0.062	0.062	0.603
58.000	0.094	0.062	0.603
60.000	0.094	0.078	0.608
62.000	0.094	0.078	0.603
64.000	0.094	0.078	0.603
66.000	0.094	0.078	0.608
68.000	0.094	0.078	0.608
70.000	0.094	0.078	0.608
72.000	0.094	0.078	0.608
74.000	0.094	0.078	0.608
76.000	0.125	0.078	0.608
78.000	0.031	0.078	0.613
80.000	0.062	0.078	0.608
82.000	0.062	0.094	0.613
84.000	0.062	0.078	0.613
86.000	0.094	0.094	0.613
88.000	0.062	0.094	0.613
90.000	0.062	0.094	0.618
92.000	0.062	0.094	0.618
94.000	0.062	0.094	0.618
96.000	0.094	0.094	0.618
98.000	0.094	0.094	0.618
100.000	0.094	0.094	0.622
110.000	0.094	0.094	0.627
120.000	0.094	0.109	0.632
130.000	0.156	0.109	0.632
140.000	0.094	0.109	0.641
150.000	0.094	0.109	0.641
160.000	0.156	0.109	0.641
170.000	0.125	0.109	0.646
180.000	0.125	0.109	0.655
190.000	0.094	0.109	0.655
200.000	0.094	0.109	0.655
210.000	0.125	0.125	0.660
220.000	0.125	0.125	0.665
230.000	0.125	0.125	0.665
240.000	0.125	0.125	0.665

SURFICIAL DRAWDOWN PHASE

Elapsed Time (min)	Input 1 12" Surficial pumped	Input 2 4" Surficial OB	Input 3 3" Upper Perm Zone (IAS)
350.000	-4.736	-1.254	0.018
360.000	-4.799	-1.270	0.023
370.000	-4.799	-1.270	0.023
380.000	-4.799	-1.270	0.023
390.000	-4.799	-1.270	0.023
400.000	-4.799	-1.270	0.028
410.000	-4.768	-1.254	0.037
420.000	-4.768	-1.254	0.037
430.000	-4.768	-1.239	0.037
440.000	-4.736	-1.223	0.042
450.000	-4.768	-1.223	0.042
460.000	-4.768	-1.207	0.047
470.000	-4.736	-1.192	0.051
480.000	-4.705	-1.176	0.056
490.000	-4.705	-1.176	0.056
500.000	-4.705	-1.160	0.056
510.000	-4.705	-1.144	0.056
520.000	-4.674	-1.129	0.061
530.000	-4.674	-1.113	0.066
540.000	-4.642	-1.097	0.070
550.000	-4.642	-1.097	0.070
560.000	-4.579	-1.082	0.070
570.000	-4.642	-1.066	0.075
580.000	-4.611	-1.066	0.075
590.000	-4.611	-1.050	0.070
600.000	-4.611	-1.050	0.080
610.000	-4.579	-1.035	0.075
620.000	-4.579	-1.035	0.080
630.000	-4.579	-1.019	0.080
640.000	-4.579	-1.019	0.080
650.000	-4.579	-1.019	0.084
660.000	-4.579	-1.003	0.089
670.000	-4.548	-1.003	0.084
680.000	-4.579	-1.003	0.084
690.000	-4.548	-0.988	0.089
700.000	-4.548	-0.988	0.089
710.000	-4.548	-0.988	0.094
720.000	-4.548	-0.988	0.094
730.000	-4.548	-0.972	0.099
740.000	-4.517	-0.972	0.103
750.000	-4.517	-0.972	0.103
760.000	-4.517	-0.956	0.108
770.000	-4.517	-0.956	0.103
780.000	-4.517	-0.956	0.108
790.000	-4.517	-0.956	0.108
800.000	-4.517	-0.956	0.113
810.000	-4.517	-0.941	0.113
820.000	-4.485	-0.941	0.113
830.000	-4.485	-0.941	0.117
840.000	-4.485	-0.925	0.122
850.000	-4.454	-0.925	0.117
860.000	-4.454	-0.909	0.122

SURFICIAL RECOVERY PHASE

Elapsed Time (min)	Input 1 12" Surficial pumped	Input 2 4" Surficial OB	Input 3 3" Upper Perm Zone (IAS)

SURFICIAL DRAWDOWN PHASE

Elapsed Time (min)	Input 1 12" Surficial pressure	Input 2 4" Surficial OB	Input 3 8" Upper Perm Zone (IAS)
870.000	-4.454	-0.909	0.122
880.000	-4.454	-0.909	0.127
890.000	-4.454	-0.909	0.127
900.000	-4.454	-0.909	0.127
910.000	-4.423	-0.909	0.127
920.000	-4.423	-0.909	0.127
930.000	-4.423	-0.909	0.127
940.000	-4.454	-0.909	0.127
950.000	-4.454	-0.909	0.132
960.000	-4.454	-0.909	0.132
970.000	-4.423	-0.894	0.136
980.000	-4.423	-0.894	0.132
990.000	-4.454	-0.894	0.132
1000.000	-4.454	-0.894	0.132
1010.000	-4.454	-0.894	0.132
1020.000	-4.454	-0.894	0.136
1030.000	-4.454	-0.894	0.132
1040.000	-4.454	-0.894	0.136
1050.000	-4.454	-0.894	0.136
1060.000	-4.423	-0.894	0.136
1070.000	-4.454	-0.894	0.141
1080.000	-4.423	-0.894	0.141
1090.000	-4.454	-0.894	0.146
1100.000	-4.423	-0.894	0.146
1110.000	-4.454	-0.894	0.146
1120.000	-4.454	-0.878	0.150
1130.000	-4.454	-0.894	0.150
1140.000	-4.454	-0.894	0.155
1150.000	-4.454	-0.894	0.155
1160.000	-4.423	-0.894	0.155
1170.000	-4.454	-0.894	0.160
1180.000	-4.423	-0.894	0.165
1190.000	-4.454	-0.894	0.169
1200.000	-4.485	-0.894	0.169
1210.000	-4.485	-0.894	0.174
1220.000	-4.454	-0.894	0.179
1230.000	-4.454	-0.894	0.184
1240.000	-4.454	-0.894	0.184
1250.000	-4.454	-0.894	0.188
1260.000	-4.454	-0.894	0.188
1270.000	-4.454	-0.894	0.188
1280.000	-4.548	-0.909	0.193
1290.000	-4.517	-0.909	0.193
1300.000	-4.517	-0.909	0.193
1310.000	-4.517	-0.909	0.193
1320.000	-4.517	-0.909	0.198
1330.000	-4.517	-0.909	0.198
1340.000	-4.517	-0.909	0.198
1350.000	-4.517	-0.909	0.198
1360.000	-4.517	-0.909	0.198
1370.000	-4.517	-0.909	0.198
1380.000	-4.517	-0.909	0.202

SURFICIAL RECOVERY PHASE

Elapsed Time (min)	Input 1 12" Surficial pressure	Input 2 4" Surficial OB	Input 3 8" Upper Perm Zone (IAS)

SURFICIAL DRAWDOWN PHASE

Elapsed Time (min)	Input 1 12" Surficial (ft)	Input 2 4" Surficial (ft)	Input 3 6" Upper Perm Zone (ft)
1390.000	-4.548	-0.909	0.207
1400.000	-4.548	-0.925	0.202
1410.000	-4.517	-0.925	0.207
1420.000	-4.548	-0.925	0.207
1430.000	-4.517	-0.925	0.207
1440.000	-4.517	-0.925	0.212
1450.000	-4.517	-0.925	0.212
1460.000	-4.517	-0.925	0.212
1470.000	-4.517	-0.925	0.212
1480.000	-4.517	-0.925	0.217
1490.000	-4.517	-0.925	0.217
1500.000	-4.548	-0.925	0.217
1510.000	-4.548	-0.941	0.217
1520.000	-4.548	-0.941	0.217
1530.000	-4.485	-0.925	0.221
1540.000	-4.485	-0.925	0.221
1550.000	-4.485	-0.925	0.221
1560.000	-4.485	-0.925	0.221
1570.000	-4.485	-0.925	0.221
1580.000	-4.517	-0.925	0.221
1590.000	-4.517	-0.925	0.226
1600.000	-4.517	-0.925	0.226
1610.000	-4.485	-0.925	0.226
1620.000	-4.485	-0.925	0.226
1630.000	-4.485	-0.941	0.231
1640.000	-4.454	-0.925	0.231
1650.000	-4.485	-0.941	0.231
1660.000	-4.517	-0.941	0.231
1670.000	-4.517	-0.941	0.231
1680.000	-4.517	-0.941	0.231
1690.000	-4.517	-0.941	0.231
1700.000	-4.517	-0.941	0.235
1710.000	-4.517	-0.941	0.240
1720.000	-4.517	-0.941	0.240
1730.000	-4.517	-0.941	0.240
1740.000	-4.517	-0.941	0.245
1750.000	-4.517	-0.941	0.245
1760.000	-4.517	-0.941	0.240
1770.000	-4.517	-0.941	0.240
1780.000	-4.517	-0.941	0.245
1790.000	-4.517	-0.941	0.245
1800.000	-4.517	-0.941	0.245
1810.000	-4.517	-0.956	0.245
1820.000	-4.517	-0.956	0.250
1830.000	-4.517	-0.956	0.250
1840.000	-4.517	-0.956	0.254
1850.000	-4.517	-0.956	0.254
1860.000	-4.517	-0.956	0.254
1870.000	-4.517	-0.956	0.259
1880.000	-4.517	-0.956	0.259
1890.000	-4.517	-0.956	0.264
1900.000	-4.517	-0.956	0.264

SURFICIAL RECOVERY PHASE

Elapsed Time (min)	Input 1 12" Surficial (ft)	Input 2 4" Surficial (ft)	Input 3 6" Upper Perm Zone (ft)

SURFICIAL DRAWDOWN PHASE

Elapsed Time (min)	Input 1 12" Surficial pumped	Input 2 4" Surficial OB	Input 3 8" Upper Perm Zone (IAS)
1910.000	-4.517	-0.956	0.268
1920.000	-4.517	-0.956	0.273
1930.000	-4.517	-0.956	0.268
1940.000	-4.517	-0.956	0.273
1950.000	-4.517	-0.956	0.273
1960.000	-4.517	-0.972	0.268
1970.000	-4.548	-0.972	0.278
1980.000	-4.548	-0.972	0.278
1990.000	-4.517	-0.956	0.283
2000.000	-4.548	-0.972	0.283
2010.000	-4.548	-0.972	0.283
2020.000	-4.517	-0.972	0.287
2030.000	-4.548	-0.972	0.292
2040.000	-4.548	-0.972	0.292
2050.000	-4.517	-0.972	0.297
2060.000	-4.548	-0.972	0.297
2070.000	-4.548	-0.972	0.297
2080.000	-4.548	-0.972	0.297
2090.000	-4.548	-0.972	0.292
2100.000	-4.548	-0.988	0.297
2110.000	-4.548	-0.988	0.301
2120.000	-4.548	-0.988	0.301
2130.000	-4.548	-0.988	0.297
2140.000	-4.548	-0.972	0.306
2150.000	-4.548	-0.988	0.306
2160.000	-4.548	-0.988	0.311
2170.000	-4.579	-0.988	0.311
2180.000	-4.579	-0.988	0.311
2190.000	-4.579	-0.988	0.316
2200.000	-4.579	-0.988	0.311
2210.000	-4.579	-0.988	0.316
2220.000	-4.579	-0.988	0.320
2230.000	-4.579	-0.988	0.320
2240.000	-4.548	-0.988	0.316
2250.000	-4.579	-0.988	0.320
2260.000	-4.579	-0.988	0.320
2270.000	-4.579	-0.988	0.325
2280.000	-4.579	-0.988	0.325
2290.000	-4.579	-1.003	0.330
2300.000	-4.579	-1.003	0.330
2310.000	-4.579	-1.003	0.330
2320.000	-4.579	-1.003	0.335
2330.000	-4.611	-1.003	0.330
2340.000	-4.611	-1.003	0.330
2350.000	-4.611	-1.003	0.335
2360.000	-4.611	-1.019	0.339
2370.000	-4.611	-1.003	0.335
2380.000	-4.611	-1.019	0.339
2390.000	-4.611	-1.003	0.344
2400.000	-4.611	-1.019	0.339
2410.000	-4.611	-1.019	0.339
2420.000	-4.611	-1.019	0.339

SURFICIAL RECOVERY PHASE

Elapsed Time (min)	Input 1 12" Surficial pumped	Input 2 4" Surficial OB	Input 3 8" Upper Perm Zone (IAS)

SURFICIAL DRAWDOWN PHASE

Elapsed Time (min)	Input 1 12" Surficial pumped	Input 2 4" Surficial OB	Input 3 8" Upper Perm Zone (IAS)
2430.000	-4.611	-1.019	0.339
2440.000	-4.611	-1.019	0.339
2450.000	-4.611	-1.019	0.339
2460.000	-4.611	-1.019	0.344
2470.000	-4.611	-1.019	0.344
2480.000	-4.579	-1.019	0.349
2490.000	-4.611	-1.019	0.349
2500.000	-4.611	-1.019	0.353
2510.000	-4.611	-1.035	0.353
2520.000	-4.611	-1.035	0.358
2530.000	-4.611	-1.035	0.353
2540.000	-4.611	-1.035	0.358
2550.000	-4.579	-1.035	0.358
2560.000	-4.642	-1.035	0.363
2570.000	-4.642	-1.035	0.368
2580.000	-4.611	-1.035	0.368
2590.000	-4.642	-1.050	0.372
2600.000	-4.642	-1.050	0.372
2610.000	-4.642	-1.050	0.377
2620.000	-4.642	-1.050	0.382
2630.000	-4.642	-1.035	0.386
2640.000	-4.642	-1.035	0.391
2650.000	-4.642	-1.035	0.391
2660.000	-4.642	-1.035	0.396
2670.000	-4.642	-1.035	0.396
2680.000	-4.642	-1.035	0.401
2690.000	-4.642	-1.035	0.401
2700.000	-4.642	-1.050	0.405
2710.000	-4.642	-1.050	0.405
2720.000	-4.642	-1.035	0.410
2730.000	-4.642	-1.050	0.415
2740.000	-4.611	-1.035	0.415
2750.000	-4.611	-1.035	0.419
2760.000	-4.611	-1.035	0.419
2770.000	-4.611	-1.035	0.424
2780.000	-4.642	-1.050	0.424
2790.000	-4.642	-1.050	0.424
2800.000	-4.642	-1.050	0.429
2810.000	-4.642	-1.050	0.424
2820.000	-4.642	-1.050	0.424
2830.000	-4.642	-1.066	0.424
2840.000	-4.642	-1.050	0.429
2850.000	-4.674	-1.066	0.424
2860.000	-4.674	-1.050	0.429
2870.000	-4.674	-1.066	0.434
2880.000	-4.674	-1.066	0.434
2890.000	-4.674	-1.066	0.434
2900.000	-4.674	-1.066	0.434
2910.000	-4.674	-1.066	0.434
2920.000	-4.674	-1.066	0.438
2930.000	-4.674	-1.066	0.438
2940.000	-4.674	-1.066	0.438

SURFICIAL RECOVERY PHASE

Elapsed Time (min)	Input 1 12" Surficial pumped	Input 2 4" Surficial OB	Input 3 8" Upper Perm Zone (IAS)

SURFICIAL DRAWDOWN PHASE

Elapsed Time (min)	Input 1: 12" Surficial pumped	Input 2: 4" Surficial OB	Input 3: 8" Upper Perm Zone (IAS)
2950.000	-4.674	-1.066	0.443
2960.000	-4.611	-1.066	0.438
2970.000	-4.642	-1.066	0.443
2980.000	-4.611	-1.050	0.452
2990.000	-4.642	-1.050	0.462
3000.000	-4.642	-1.050	0.457
3010.000	-4.642	-1.066	0.452
3020.000	-4.674	-1.066	0.457
3030.000	-4.642	-1.066	0.457
3040.000	-4.674	-1.066	0.452
3050.000	-4.642	-1.066	0.457
3060.000	-4.642	-1.066	0.467
3070.000	-4.642	-1.066	0.462
3080.000	-4.642	-1.066	0.462
3090.000	-4.642	-1.066	0.471
3100.000	-4.642	-1.066	0.476
3110.000	-4.642	-1.066	0.481
3120.000	-4.642	-1.066	0.490
3130.000	-4.642	-1.066	0.495
3140.000	-4.579	-1.066	0.490
3150.000	-4.642	-1.066	0.500
3160.000	-4.642	-1.066	0.500
3170.000	-4.642	-1.066	0.500
3180.000	-4.674	-1.066	0.500
3190.000	-4.674	-1.082	0.495
3200.000	-4.674	-1.066	0.495
3210.000	-4.674	-1.082	0.490
3220.000	-4.674	-1.082	0.495
3230.000	-4.674	-1.082	0.495
3240.000	-4.674	-1.082	0.495
3250.000	-4.674	-1.082	0.500
3260.000	-4.674	-1.082	0.504
3270.000	-4.674	-1.082	0.504
3280.000	-4.674	-1.082	0.504
3290.000	-4.674	-1.082	0.509
3300.000	-4.674	-1.082	0.509
3310.000	-4.674	-1.082	0.514
3320.000	-4.674	-1.082	0.514
3330.000	-4.674	-1.082	0.519
3340.000	-4.674	-1.082	0.523
3350.000	-4.674	-1.082	0.523
3360.000	-4.674	-1.082	0.523
3370.000	-4.674	-1.082	0.528
3380.000	-4.611	-1.082	0.528
3390.000	-4.674	-1.082	0.537
3400.000	-4.674	-1.082	0.537
3410.000	-4.674	-1.082	0.537
3420.000	-4.674	-1.082	0.537
3430.000	-4.674	-1.082	0.542
3440.000	-4.674	-1.082	0.542
3450.000	-4.674	-1.082	0.547
3460.000	-4.705	-1.082	0.547

SURFICIAL RECOVERY PHASE

Elapsed Time (min)	Input 1: 12" Surficial pumped	Input 2: 4" Surficial OB	Input 3: 8" Upper Perm Zone (IAS)

SURFICIAL DRAWDOWN PHASE

Elapsed Time (min)	Input 1 12" Surficial pumped	Input 2 4" Surficial OB	Input 3 6" Upper Perm Zone (IAS)
3470.000	-4.674	-1.097	0.552
3480.000	-4.674	-1.097	0.552
3490.000	-4.674	-1.097	0.552
3500.000	-4.674	-1.097	0.556
3510.000	-4.705	-1.097	0.556
3520.000	-4.705	-1.097	0.556
3530.000	-4.674	-1.097	0.561
3540.000	-4.674	-1.097	0.556
3550.000	-4.674	-1.097	0.561
3560.000	-4.674	-1.097	0.561
3570.000	-4.674	-1.097	0.566
3580.000	-4.674	-1.097	0.566
3590.000	-4.674	-1.097	0.570
3600.000	-4.674	-1.097	0.575
3610.000	-4.674	-1.097	0.570
3620.000	-4.674	-1.097	0.575
3630.000	-4.674	-1.097	0.575
3640.000	-4.705	-1.097	0.575
3650.000	-4.705	-1.097	0.580
3660.000	-4.674	-1.097	0.580
3670.000	-4.705	-1.097	0.580
3680.000	-4.705	-1.097	0.585
3690.000	-4.705	-1.097	0.580
3700.000	-4.705	-1.113	0.585
3710.000	-4.705	-1.097	0.585
3720.000	-4.705	-1.097	0.585
3730.000	-4.705	-1.097	0.585
3740.000	-4.705	-1.113	0.589
3750.000	-4.736	-1.113	0.589

SURFICIAL RECOVERY PHASE

Elapsed Time (min)	Input 1 12" Surficial pumped	Input 2 4" Surficial OB	Input 3 6" Upper Perm Zone (IAS)

APPENDIX B

Data Logger Water Level Measurements for Upper Permeable Zone (IAS) APT.

SE2000
Environmental Logger
01/22 09:17
Unit# 577 Test 1

Setups:	INPUT 1	INPUT 2	INPUT 3	INPUT 4	INPUT 5	INPUT 6	INPUT 7
Type	Level (F)	Level (F)	Level (F)	Level (F)	Level (F)	Level (F)	Level (F)
Mode	Surface	Surface	Surface	Surface	Surface	Surface	Surface
Reference	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PSI at Ref.	37.215	23.412	22.720	3.160	3.281	2.523	10.644
SG	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Linearity	0.036	-0.081	0.014	0.073	0.106	0.078	0.081
Scale factor	99.651	99.925	49.817	14.905	15.039	15.068	15.012
Offset	-0.083	-0.112	-0.107	0.009	-0.040	0.040	-0.016
Delay mSEC	50.000	50.000	50.000	50.000	50.000	50.000	50.000

Step 0 01/06 22:27:16

UPPER PERMEABLE ZONE (INTERMEDIATE AQUIFER SYSTEM) DRAWDOWN PHASE

Time (hrs)	Input 1 PSI (Water Level)	Input 2 PSI (Top of Casing)	Input 3 PSI (Barometer)	Input 4 PSI (Differential)	Input 5 PSI (Surface Temp)
0	0	0	0	0.004	0
0.0083	0	0	0	0.004	0
0.0166	0	0	0	0.004	0
0.025	0	0	0	0.004	0
0.0333	0	0	0	0.004	0
0.0416	0.031	0	0	0.004	0
0.05	0	0	0	0.004	0
0.0583	0	0	0	0.004	0.004
0.0666	0	0	0	0.004	0
0.075	0	0	0	0.004	0
0.0833	0	0	0	0.004	0
0.0916	0	0	0	0.004	0.004
0.1	0	0	0	0.004	0
0.1083	-0.188	0	0	0	0
0.1166	-4.768	0	0	0.004	0
0.125	-2.447	-0.031	0	0.004	0
0.1333	-2.541	-0.031	0	0	0
0.1416	-2.792	-0.031	0	0.004	0
0.15	-3.482	-0.062	0	0	0
0.1583	-4.392	-0.062	0	0.004	0
0.1666	-5.239	-0.062	0	0.004	0
0.175	-5.866	-0.094	0	0.004	0
0.1833	-6.682	-0.094	0	0.004	0
0.1916	-7.31	-0.125	0	0.004	0
0.2	-8.031	-0.157	0	0.004	0
0.2083	-9.067	-0.157	0	0.004	0
0.2166	-9.318	-0.188	0	0.004	0
0.225	-9.725	-0.22	0	0.004	0
0.2333	-10.227	-0.251	0	0.004	0
0.2416	-10.761	-0.251	0	0.004	0
0.25	-11.2	-0.282	0	0	0
0.2583	-11.702	-0.314	0	0	0
0.2666	-12.11	-0.345	0	0	0
0.275	-12.643	-0.377	0	0.004	0
0.2833	-12.926	-0.377	0	0.004	0
0.2916	-13.365	-0.408	0	0	0
0.3	-13.835	-0.44	0	0	0
0.3083	-14.118	-0.44	0	0.004	0
0.3166	-14.463	-0.471	0	0	0
0.325	-14.871	-0.471	0	0.004	0
0.3333	-15.153	-0.503	0	0.004	0
0.35	-15.718	-0.534	0	0.004	0
0.3666	-16.283	-0.565	0	0.004	0
0.3833	-16.816	-0.597	0	0.004	0
0.4	-17.286	-0.597	0	0.004	0
0.4166	-17.632	-0.628	0	0.004	0
0.4333	-18.134	-0.66	0	0.004	0
0.45	-18.51	-0.691	0	0.004	0
0.4666	-18.792	-0.723	0	0.004	0
0.4833	-19.169	-0.754	0	0.004	0
0.5	-19.514	-0.786	0	0.004	0
0.5166	-19.734	-0.817	0	0.004	0
0.5333	-20.047	-0.817	0	0.004	0
0.55	-20.361	-0.848	0	0.004	0

SE2000
Environmental Logger
01/13 13:01
Unit# 577 Test 1

Setups:	INPUT 1	INPUT 2	INPUT 3	INPUT 4	INPUT 5	INPUT 6	INPUT 7
Type	Level (F)	Level (F)	Level (F)	Level (F)	Level (F)	Level (F)	Level (F)
Mode	Surface	Surface	Surface	Surface	Surface	Surface	Surface
Reference	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PSI at Ref.	37.215	23.412	22.720	3.160	3.281	2.523	10.644
SG	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Linearity	0.036	-0.081	0.014	0.073	0.106	0.078	0.081
Scale factor	99.651	99.925	49.817	14.905	15.039	15.068	15.012
Offset	-0.083	-0.112	-0.107	0.009	-0.040	0.040	-0.016
Delay mSEC	50.000	50.000	50.000	50.000	50.000	50.000	50.000

Step 1 01/08 12:24:53

UPPER PERMEABLE ZONE (INTERMEDIATE AQUIFER SYSTEM) RECOVERY PHASE

Time (hrs)	Input 1 PSI (Water Level)	Input 2 PSI (Top of Casing)	Input 3 PSI (Barometer)	Input 4 PSI (Differential)	Input 5 PSI (Surface Temp)
0	-39.874	-16.035	0.156	-0.136	-0.071
0.0083	-39.937	-16.035	0.156	-0.136	-0.071
0.0166	-39.905	-16.035	0.156	-0.131	-0.066
0.025	-39.905	-16.035	0.156	-0.136	-0.071
0.0333	-39.937	-16.035	0.156	-0.136	-0.066
0.0416	-39.874	-16.035	0.156	-0.136	-0.071
0.05	-39.843	-16.035	0.156	-0.136	-0.071
0.0583	-39.874	-16.035	0.156	-0.136	-0.076
0.0666	-39.874	-16.035	0.156	-0.136	-0.071
0.075	-39.905	-16.035	0.156	-0.136	-0.066
0.0833	-39.905	-16.035	0.156	-0.136	-0.071
0.0916	-39.905	-16.035	0.156	-0.136	-0.071
0.1	-39.937	-16.035	0.156	-0.136	-0.071
0.1083	-39.905	-16.035	0.156	-0.136	-0.066
0.1166	-39.905	-16.004	0.156	-0.136	-0.071
0.125	-39.905	-16.035	0.156	-0.136	-0.061
0.1333	-39.874	-16.035	0.156	-0.131	-0.076
0.1416	-36.674	-16.035	0.156	-0.136	-0.071
0.15	-37.71	-16.035	0.156	-0.136	-0.076
0.1583	-38.149	-16.004	0.156	-0.136	-0.066
0.1666	-37.459	-16.004	0.156	-0.136	-0.071
0.175	-36.643	-16.004	0.156	-0.136	-0.066
0.1833	-35.796	-16.004	0.156	-0.136	-0.071
0.1916	-35.043	-16.004	0.156	-0.136	-0.066
0.2	-34.321	-16.004	0.156	-0.136	-0.061
0.2083	-33.569	-16.004	0.156	-0.136	-0.066
0.2166	-32.878	-16.004	0.156	-0.136	-0.066
0.225	-32.22	-16.004	0.156	-0.136	-0.071
0.2333	-31.529	-15.972	0.156	-0.136	-0.071
0.2416	-30.902	-15.972	0.156	-0.136	-0.066
0.25	-30.275	-15.972	0.156	-0.131	-0.071
0.2583	-29.678	-15.972	0.156	-0.141	-0.066
0.2666	-29.114	-15.941	0.141	-0.131	-0.066
0.275	-28.549	-15.941	0.156	-0.136	-0.071
0.2833	-27.984	-15.941	0.156	-0.131	-0.061
0.2916	-27.482	-15.909	0.141	-0.136	-0.066
0.3	-26.949	-15.909	0.141	-0.136	-0.066
0.3083	-26.447	-15.878	0.141	-0.136	-0.066
0.3166	-25.977	-15.878	0.141	-0.136	-0.071
0.325	-25.506	-15.846	0.141	-0.136	-0.071
0.3333	-25.067	-15.846	0.156	-0.136	-0.066
0.35	-24.22	-15.815	0.156	-0.136	-0.061
0.3666	-23.404	-15.783	0.156	-0.131	-0.066
0.3833	-22.683	-15.721	0.156	-0.136	-0.071
0.4	-21.992	-15.689	0.156	-0.131	-0.066
0.4166	-21.365	-15.658	0.156	-0.131	-0.066
0.4333	-20.737	-15.626	0.156	-0.131	-0.066
0.45	-20.235	-15.595	0.156	-0.131	-0.071
0.4666	-19.734	-15.563	0.156	-0.131	-0.066
0.4833	-19.263	-15.5	0.141	-0.131	-0.071
0.5	-18.855	-15.469	0.141	-0.131	-0.066
0.5166	-18.479	-15.438	0.141	-0.136	-0.066
0.5333	-18.102	-15.406	0.156	-0.136	-0.066
0.55	-17.788	-15.343	0.156	-0.131	-0.071
0.5666	-17.475	-15.312	0.156	-0.131	-0.066

UPPER PERMEABLE ZONE (INTERMEDIATE AQUIFER SYSTEM) DRAWDOWN PHASE

Elapsed Time (min)	Input 1 8" Observation piezometer	Input 2 Intermediate piezometer OB-1	Input 3 4" Recovery well OB-2	Input 4 12" Lower pump	Input 5 12" Observation
0.5666	-20.581	-0.88	0	0.004	0
0.5833	-20.894	-0.88	0	0.004	0
0.6	-21.239	-0.911	0	0.004	0
0.6166	-21.396	-0.943	0	0.004	0
0.6333	-21.679	-0.943	0	0.004	0
0.65	-21.93	-0.974	0	0.004	0
0.6666	-22.181	-0.974	0	0.004	0
0.6833	-22.432	-1.006	0	0.004	0
0.7	-22.526	-1.037	0	0.004	0
0.7166	-22.683	-1.037	0	0.004	0
0.7333	-22.871	-1.068	0	0.004	0
0.75	-22.996	-1.068	0	0.004	0
0.7666	-23.122	-1.1	0	0.004	0
0.7833	-23.247	-1.1	0	0.004	0.004
0.8	-23.404	-1.131	0	0.004	0
0.8166	-23.467	-1.163	0	0.004	0
0.8333	-23.592	-1.163	0	0.004	0
0.85	-23.718	-1.163	0	0.004	0
0.8666	-23.843	-1.194	0	0.004	0
0.8833	-23.906	-1.194	0	0.004	0
0.9	-24.063	-1.226	0	0.004	0
0.9166	-24.157	-1.226	0	0.004	0
0.9333	-24.251	-1.257	0	0.004	0
0.95	-24.345	-1.257	0	0.004	0
0.9666	-24.471	-1.257	0	0.004	0
0.9833	-24.596	-1.289	0	0.004	0
1	-24.69	-1.289	0	0.004	0
1.2	-25.381	-1.414	0.015	0.004	0
1.4	-25.914	-1.54	0.015	0.004	0
1.6	-26.228	-1.634	0.015	0.004	0
1.8	-26.447	-1.697	0.015	0.004	0.004
2	-26.698	-1.792	0.015	0.004	0.004
2.2	-26.855	-1.854	0	0.004	0.004
2.4	-26.981	-1.917	0.015	0.009	0
2.6	-27.106	-1.98	0.015	0.004	0.004
2.8	-27.2	-2.012	0.015	0.004	0.004
3	-27.263	-2.075	0.015	0.009	0.004
3.2	-27.357	-2.137	0.015	0.009	0.004
3.4	-27.451	-2.169	0.015	0.004	0
3.6	-27.482	-2.232	0.015	0.009	0.004
3.8	-27.545	-2.263	0.015	0.009	0.004
4	-27.608	-2.326	0.015	0.004	0.004
4.2	-27.671	-2.358	0.015	0.009	0.004
4.4	-27.733	-2.389	0.015	0.009	0.004
4.6	-27.733	-2.42	0.015	0.009	0.004
4.8	-27.828	-2.483	0.015	0.009	0.004
5	-27.89	-2.515	0.015	0.009	0.004
5.2	-27.953	-2.546	0.015	0.009	0.004
5.4	-27.953	-2.578	0.015	0.009	0.004
5.6	-28.016	-2.641	0.015	0.009	0.004
5.8	-28.079	-2.672	0	0.009	0.004
6	-28.141	-2.703	0.015	0.009	0.004
6.2	-28.173	-2.735	0.015	0.009	0.004
6.4	-28.235	-2.766	0.015	0.009	0.004
6.6	-28.235	-2.798	0.015	0.009	0.004
6.8	-28.267	-2.829	0.015	0.009	0.004
7	-28.298	-2.861	0.015	0.009	0.004
7.2	-28.33	-2.892	0.015	0.009	0.009
7.4	-28.361	-2.923	0.015	0.009	0.004
7.6	-28.455	-2.923	0.015	0.009	0.009
7.8	-28.424	-2.986	0.015	0.009	0.004
8	-28.486	-2.986	0.015	0.009	0.009
8.2	-28.549	-3.018	0.015	0.009	0.004
8.4	-28.612	-3.049	0.015	0.009	0.009
8.6	-28.643	-3.081	0.015	0.014	0.009
8.8	-28.612	-3.112	0.015	0.009	0.009
9	-28.643	-3.144	0.015	0.009	0.009
9.2	-28.706	-3.144	0.015	0.014	0.009
9.4	-28.737	-3.175	0.015	0.014	0.009
9.6	-28.737	-3.206	0.015	0.014	0.009
9.8	-28.8	-3.238	0.015	0.014	0.009
10	-28.831	-3.269	0.015	0.009	0.009

UPPER PERMEABLE ZONE (INTERMEDIATE AQUIFER SYSTEM) RECOVERY PHASE

Elapsed Time (min)	Input 1 8" Observation piezometer	Input 2 Intermediate piezometer OB-1	Input 3 4" Recovery well OB-2	Input 4 12" Lower pump	Input 5 12" Observation
0.5833	-17.224	-15.28	0.156	-0.131	-0.066
0.6	-16.973	-15.249	0.156	-0.131	-0.066
0.6166	-16.753	-15.217	0.156	-0.131	-0.071
0.6333	-16.565	-15.186	0.156	-0.131	-0.066
0.65	-16.408	-15.155	0.156	-0.131	-0.066
0.6666	-16.251	-15.123	0.141	-0.131	-0.071
0.6833	-16.094	-15.092	0.141	-0.131	-0.066
0.7	-15.969	-15.029	0.141	-0.131	-0.071
0.7166	-15.843	-14.997	0.141	-0.131	-0.066
0.7333	-15.749	-14.966	0.141	-0.131	-0.066
0.75	-15.624	-14.966	0.141	-0.131	-0.066
0.7666	-15.561	-14.934	0.141	-0.131	-0.066
0.7833	-15.467	-14.903	0.141	-0.131	-0.066
0.8	-15.404	-14.872	0.156	-0.131	-0.066
0.8166	-15.373	-14.872	0.156	-0.131	-0.066
0.8333	-15.31	-14.84	0.156	-0.131	-0.066
0.85	-15.279	-14.809	0.156	-0.131	-0.066
0.8666	-15.216	-14.809	0.141	-0.131	-0.071
0.8833	-15.184	-14.777	0.141	-0.136	-0.066
0.9	-15.153	-14.777	0.156	-0.131	-0.066
0.9166	-15.122	-14.746	0.141	-0.136	-0.071
0.9333	-15.09	-14.746	0.141	-0.136	-0.071
0.95	-15.059	-14.746	0.141	-0.131	-0.071
0.9666	-15.028	-14.714	0.141	-0.136	-0.071
0.9833	-14.996	-14.714	0.156	-0.131	-0.066
1	-14.965	-14.683	0.156	-0.131	-0.066
1.2	-14.745	-14.526	0.141	-0.136	-0.071
1.4	-14.62	-14.431	0.141	-0.136	-0.071
1.6	-14.494	-14.368	0.141	-0.136	-0.071
1.8	-14.369	-14.274	0.141	-0.136	-0.066
2	-14.275	-14.211	0.141	-0.136	-0.071
2.2	-14.212	-14.148	0.141	-0.136	-0.071
2.4	-14.118	-14.085	0.141	-0.136	-0.061
2.6	-14.055	-14.023	0.141	-0.136	-0.071
2.8	-13.992	-13.96	0.141	-0.141	-0.071
3	-13.93	-13.928	0.141	-0.136	-0.071
3.2	-13.867	-13.865	0.141	-0.136	-0.071
3.4	-13.804	-13.834	0.141	-0.136	-0.071
3.6	-13.741	-13.771	0.141	-0.136	-0.071
3.8	-13.71	-13.74	0.141	-0.136	-0.066
4	-13.647	-13.677	0.141	-0.136	-0.066
4.2	-13.616	-13.645	0.141	-0.136	-0.061
4.4	-13.584	-13.614	0.141	-0.131	-0.061
4.6	-13.522	-13.551	0.156	-0.136	-0.066
4.8	-13.49	-13.519	0.141	-0.131	-0.071
5	-13.428	-13.488	0.141	-0.136	-0.066
5.2	-13.396	-13.457	0.141	-0.136	-0.071
5.4	-13.365	-13.425	0.141	-0.136	-0.066
5.6	-13.302	-13.394	0.141	-0.136	-0.071
5.8	-13.271	-13.362	0.141	-0.136	-0.071
6	-13.239	-13.331	0.141	-0.136	-0.066
6.2	-13.208	-13.299	0.141	-0.136	-0.066
6.4	-13.177	-13.268	0.141	-0.136	-0.071
6.6	-13.145	-13.237	0.141	-0.136	-0.071
6.8	-13.114	-13.174	0.156	-0.136	-0.066
7	-13.082	-13.174	0.141	-0.136	-0.076
7.2	-13.051	-13.142	0.141	-0.136	-0.071
7.4	-13.02	-13.111	0.156	-0.136	-0.066
7.6	-12.988	-13.079	0.156	-0.136	-0.061
7.8	-12.957	-13.048	0.156	-0.131	-0.061
8	-12.926	-12.985	0.156	-0.136	-0.061
8.2	-12.894	-12.985	0.156	-0.136	-0.061
8.4	-12.863	-12.954	0.156	-0.136	-0.071
8.6	-12.831	-12.954	0.141	-0.131	-0.066
8.8	-12.8	-12.922	0.156	-0.131	-0.066
9	-12.769	-12.891	0.156	-0.136	-0.066
9.2	-12.737	-12.859	0.156	-0.136	-0.061
9.4	-12.706	-12.828	0.156	-0.131	-0.066
9.6	-12.675	-12.828	0.156	-0.131	-0.061
9.8	-12.643	-12.796	0.156	-0.126	-0.047
10	-12.643	-12.796	0.156	-0.126	-0.071
12	-12.424	-12.576	0.156	-0.136	-0.057

UPPER PERMEABLE ZONE (INTERMEDIATE AQUIFER SYSTEM) DRAWDOWN PHASE

Elapsed Time (min)	Input 1 (ft, Upper perm. pumped)	Input 2 (ft, Upper perm. OB)	Input 3 (ft, Aquitard OB)	Input 4 (ft, Lower perm.)	Input 5 (ft, Surficial)
12	-29.082	-3.489	0.015	0.014	0.009
14	-29.302	-3.71	0.015	0.014	0.014
16	-29.553	-3.93	0.015	0.009	0.009
18	-29.647	-4.118	0.015	0.009	0.009
20	-29.804	-4.275	0.015	0.009	0.009
22	-29.992	-4.433	0.015	0.009	-0.009
24	-30.118	-4.59	0.015	0.014	0.004
26	-30.212	-4.716	0.015	0.014	0.009
28	-30.369	-4.841	0.015	0.014	0.014
30	-30.431	-4.967	0.015	0.014	0.014
32	-30.526	-5.093	0.015	0.014	0.014
34	-30.651	-5.187	0.015	0.018	0.014
36	-30.777	-5.313	0.015	0.014	0.014
38	-30.839	-5.407	0.015	0.018	0.019
40	-30.965	-5.502	0.015	0.023	0.023
42	-31.09	-5.627	0.015	0.018	0.019
44	-31.059	-5.722	0.015	0.018	0.023
46	-31.184	-5.816	0.015	0.018	0.023
48	-31.278	-5.91	0.015	0.018	0.023
50	-31.341	-5.942	0.015	0.028	0.028
52	-31.373	-6.036	0.015	0.028	0.028
54	-31.404	-6.131	0.015	0.028	0.028
56	-31.561	-6.225	0.015	0.028	0.028
58	-31.592	-6.319	0.015	0.028	0.028
60	-31.686	-6.382	0.015	0.028	0.028
62	-31.718	-6.476	0.015	0.028	0.028
64	-31.78	-6.508	0.015	0.028	0.033
66	-31.875	-6.602	0.015	0.028	0.028
68	-31.937	-6.696	0.015	0.028	0.028
70	-31.969	-6.759	0.015	0.028	0.033
72	-31.969	-6.822	0.015	0.032	0.033
74	-31.969	-6.885	0.015	0.032	0.033
76	-32.031	-6.948	0.031	0.032	0.038
78	-32.125	-7.011	0.015	0.032	0.038
80	-32.188	-7.074	0.015	0.032	0.033
82	-32.251	-7.137	0.015	0.037	0.033
84	-32.314	-7.2	0.015	0.032	0.033
86	-32.376	-7.262	0.031	0.037	0.033
88	-32.439	-7.325	0.015	0.037	0.038
90	-32.502	-7.388	0.015	0.037	0.038
92	-32.533	-7.42	0.031	0.042	0.038
94	-32.565	-7.483	0.031	0.042	0.038
96	-32.565	-7.545	0.031	0.042	0.042
98	-32.627	-7.608	0.031	0.042	0.042
100	-32.753	-7.64	0.031	0.047	0.047
110	-32.941	-7.891	0.031	0.047	0.047
120	-33.098	-8.143	0.031	0.051	0.052
130	-33.255	-8.363	0.031	0.061	0.061
140	-33.412	-8.552	0.031	0.07	0.071
150	-33.569	-8.772	0.031	0.065	0.066
160	-33.757	-8.929	0.031	0.075	0.076
170	-33.882	-9.117	0.031	0.079	0.08
180	-34.039	-9.306	0.031	0.089	0.09
190	-34.165	-9.463	0.047	0.098	0.095
200	-34.259	-9.621	0.047	0.103	0.099
210	-34.416	-9.746	0.047	0.108	0.099
220	-34.478	-9.904	0.047	0.112	0.104
230	-34.604	-10.029	0.047	0.117	0.114
240	-34.667	-10.155	0.047	0.122	0.118
250	-34.792	-10.281	0.047	0.131	0.123
260	-34.98	-10.407	0.047	0.136	0.128
270	-35.106	-10.532	0.047	0.141	0.133
280	-35.137	-10.627	0.047	0.141	0.133
290	-35.137	-10.721	0.047	0.145	0.137
300	-35.263	-10.847	0.047	0.15	0.137
310	-35.388	-10.973	0.047	0.15	0.142
320	-35.419	-11.067	0.047	0.155	0.142
330	-35.514	-11.161	0.062	0.159	0.147
340	-35.639	-11.256	0.062	0.164	0.147
350	-35.702	-11.35	0.062	0.164	0.152
360	-35.796	-11.444	0.062	0.169	0.152
370	-35.827	-11.507	0.062	0.169	0.156

UPPER PERMEABLE ZONE (INTERMEDIATE AQUIFER SYSTEM) RECOVERY PHASE

Elapsed Time (min)	Input 1 (ft, Upper perm. pumped)	Input 2 (ft, Upper perm. OB)	Input 3 (ft, Aquitard OB)	Input 4 (ft, Lower perm.)	Input 5 (ft, Surficial)
14	-12.204	-12.388	0.156	-0.136	-0.071
16	-12.047	-12.23	0.156	-0.136	-0.071
18	-11.859	-12.042	0.156	-0.136	-0.066
20	-11.702	-11.884	0.156	-0.141	-0.057
22	-11.577	-11.727	0.156	-0.131	-0.061
24	-11.42	-11.633	0.156	-0.131	-0.066
26	-11.294	-11.476	0.156	-0.131	-0.061
28	-11.2	-11.381	0.156	-0.136	-0.061
30	-11.075	-11.256	0.156	-0.126	-0.061
32	-10.949	-11.13	0.156	-0.131	-0.061
34	-10.855	-11.035	0.156	-0.131	-0.057
36	-10.761	-10.941	0.156	-0.131	-0.061
38	-10.635	-10.815	0.156	-0.126	-0.057
40	-10.541	-10.721	0.156	-0.126	-0.057
42	-10.478	-10.658	0.156	-0.126	-0.052
44	-10.384	-10.564	0.156	-0.117	-0.052
46	-10.29	-10.47	0.156	-0.112	-0.042
48	-10.227	-10.375	0.156	-0.112	-0.047
50	-10.133	-10.312	0.156	-0.108	-0.047
52	-10.039	-10.187	0.156	-0.108	-0.042
54	-9.976	-10.155	0.156	-0.117	-0.047
56	-9.914	-10.092	0.156	-0.112	-0.047
58	-9.851	-9.998	0.156	-0.112	-0.042
60	-9.757	-9.935	0.156	-0.112	-0.047
62	-9.694	-9.872	0.156	-0.112	-0.042
64	-9.631	-9.778	0.156	-0.112	-0.038
66	-9.569	-9.715	0.156	-0.112	-0.042
68	-9.506	-9.652	0.156	-0.108	-0.038
70	-9.443	-9.621	0.156	-0.112	-0.042
72	-9.38	-9.526	0.156	-0.112	-0.042
74	-9.318	-9.495	0.156	-0.112	-0.042
76	-9.255	-9.432	0.156	-0.108	-0.033
78	-9.192	-9.369	0.156	-0.108	-0.042
80	-9.161	-9.306	0.156	-0.108	-0.038
82	-9.098	-9.243	0.156	-0.108	-0.038
84	-9.035	-9.212	0.156	-0.112	-0.038
86	-8.973	-9.149	0.156	-0.108	-0.033
88	-8.941	-9.086	0.156	-0.108	-0.038
90	-8.878	-9.023	0.156	-0.108	-0.033
92	-8.816	-8.96	0.156	-0.103	-0.033
94	-8.784	-8.929	0.156	-0.098	-0.023
96	-8.722	-8.866	0.156	-0.094	-0.019
98	-8.69	-8.835	0.156	-0.103	-0.023
100	-8.627	-8.772	0.141	-0.098	-9.763
110	-8.408	-8.552	0.156	-0.098	-9.763
120	-8.188	-8.331	0.156	-0.089	-9.763
130	-8	-8.111	0.141	-0.079	-9.763
140	-7.812	-7.891	0.141	-0.065	-9.763
150	-7.655	-7.734	0.141	-0.065	-9.763
160	-7.467	-7.545	0.141	-0.056	-9.763
170	-7.31	-7.42	0.141	-0.051	-9.763
180	-7.153	-7.262	0.141	-0.047	-9.763
190	-6.996	-7.105	0.141	-0.042	-9.763
200	-6.87	-6.979	0.141	-0.037	-9.763
210	-6.714	-6.822	0.141	-0.037	-9.763
220	-6.588	-6.696	0.141	-0.032	-9.763
230	-6.463	-6.539	0.141	-0.018	-9.763
240	-6.368	-6.445	0.141	-9.375	-9.763
250	-6.243	-6.351	0.125	-9.375	-9.763
260	-6.117	-6.225	0.125	-9.375	-9.763
270	-6.023	-6.099	0.141	-9.375	-9.763
280	-5.898	-5.973	0.125	-9.375	-9.763
290	-5.804	-5.91	0.125	-9.375	-9.763
300	-5.71	-5.785	0.141	-9.375	-9.763
310	-5.647	-5.722	0.125	-9.375	-9.763
320	-5.521	-5.596	0.141	-9.375	-9.763
330	-5.427	-5.533	0.141	-9.375	-9.763
340	-5.365	-5.47	0.141	-9.375	-9.763
350	-5.27	-5.344	0.141	-9.375	-9.763
360	-5.208	-5.282	0.141	-9.375	-9.763
370	-5.114	-5.187	0.141	-9.375	-9.763
380	-5.051	-5.124	0.141	-9.375	-9.763

UPPER PERMEABLE ZONE (INTERMEDIATE AQUIFER SYSTEM) DRAWDOWN PHASE

Elapsed Time (min)	Input 1 2" Upper perm Subsoil DD	Input 2 2" Upper perm DD	Input 3 4" Subsoil DD	Input 4 12" Lower perm	Input 5 12" Subperm
380	-35.89	-11.601	0.062	0.169	0.156
390	-35.953	-11.696	0.062	0.169	0.156
400	-36.016	-11.759	0.062	0.173	0.156
410	-36.141	-11.853	0.062	0.169	0.156
420	-36.172	-11.916	0.062	0.164	0.152
430	-36.298	-12.01	0.062	0.164	0.142
440	-36.298	-12.073	0.062	0.159	0.142
450	-36.361	-12.105	0.062	0.159	0.137
460	-36.486	-12.199	0.062	0.155	0.133
470	-36.517	-12.293	0.062	0.15	0.128
480	-36.549	-12.356	0.078	0.15	0.123
490	-36.58	-12.419	0.078	0.141	0.118
500	-36.643	-12.482	0.078	0.136	0.114
510	-36.768	-12.545	0.078	0.131	0.109
520	-36.768	-12.608	0.078	0.126	0.104
530	-36.831	-12.671	0.078	0.122	0.099
540	-36.863	-12.702	0.078	0.117	0.095
550	-36.894	-12.796	0.078	0.112	0.09
560	-36.988	-12.859	0.078	0.112	0.09
570	-36.957	-12.922	0.078	0.103	0.08
580	-37.082	-12.954	0.078	0.098	0.08
590	-37.082	-13.016	0.078	0.094	0.08
600	-37.145	-13.079	0.078	0.079	0.076
610	-37.176	-13.142	0.078	0.089	0.071
620	-37.27	-13.174	0.078	0.159	0.066
630	-37.27	-13.237	0.078	0.418	0.066
640	-37.302	-13.268	0.078	0.352	0.057
650	-37.427	-13.331	0.078	0.352	0.047
660	-37.49	-13.362	0.078	0.032	0.004
670	-37.49	-13.425	0.078	0.216	-0.014
680	-37.553	-13.457	0.078	0.253	-0.047
690	-37.553	-13.519	0.078	0.23	-0.061
700	-37.615	-13.551	0.078	-0.164	-0.085
710	-37.584	-13.614	0.078	-0.192	-0.099
720	-37.615	-13.645	0.078	-0.211	-0.114
730	-37.678	-13.677	0.078	-0.225	-0.118
740	-37.678	-13.74	0.078	-0.235	-0.133
750	-37.772	-13.771	0.094	-0.249	-0.137
760	-37.835	-13.802	0.078	-0.239	-0.152
770	-37.804	-13.834	0.078	-0.244	-0.161
780	-37.835	-13.865	0.078	-0.108	-0.166
790	-37.866	-13.865	0.078	0.117	-0.171
800	-37.866	-13.897	0.078	0.103	-0.161
810	-38.023	-13.96	0.078	-0.272	-0.166
820	-37.961	-13.991	0.078	-0.277	-0.175
830	-37.992	-14.023	0.078	-0.282	-0.171
840	-37.992	-14.054	0.078	-0.272	-0.175
850	-38.055	-14.085	0.094	-0.267	-0.166
860	-38.149	-14.117	0.078	-0.282	-0.175
870	-38.117	-14.148	0.078	-0.282	-0.166
880	-38.055	-14.117	0.078	-0.267	-0.161
890	-38.117	-14.211	0.078	-0.258	-0.166
900	-38.18	-14.211	0.094	-0.253	-0.156
910	-38.18	-14.243	0.094	-0.244	-0.152
920	-38.211	-14.274	0.078	-0.239	-0.152
930	-38.274	-14.306	0.094	-0.235	-0.147
940	-38.243	-14.337	0.078	-0.239	-0.152
950	-38.306	-14.368	0.094	-0.244	-0.156
960	-38.243	-14.4	0.078	-0.253	-0.175
970	-38.4	-14.431	0.078	-0.258	-0.171
980	-38.306	-14.431	0.078	-0.258	-0.171
990	-38.4	-14.463	0.078	-0.258	-0.175
1000	-38.431	-14.494	0.078	-0.263	-0.185
1010	-38.462	-14.526	0.094	-0.263	-0.18
1020	-38.4	-14.526	0.078	-0.267	-0.18
1030	-38.557	-14.557	0.094	-0.263	-0.18
1040	-38.494	-14.589	0.094	-0.239	-0.166
1050	-38.588	-14.62	0.078	-0.202	-0.133
1060	-38.557	-14.62	0.078	-0.164	-0.095
1070	-38.651	-14.651	0.094	-0.136	-0.071
1080	-38.557	-14.683	0.078	-0.117	-0.052
1090	-38.619	-14.714	0.078	-0.098	-0.042

UPPER PERMEABLE ZONE (INTERMEDIATE AQUIFER SYSTEM) RECOVERY PHASE

Elapsed Time (min)	Input 1 8" Upper Perm Subsoil	Input 2 2" Upper perm DD	Input 3 4" Subsoil DD	Input 4 12" Lower perm	Input 5 12" Subperm
390	-4.957	-5.061	0.141	-9.375	-9.763
400	-4.894	-4.967	0.141	-9.375	-9.763
410	-4.831	-4.904	0.141	-9.375	-9.763
420	-4.768	-4.841	0.141	-9.375	-9.763
430	-4.706	-4.779	0.141	-9.375	-9.763
440	-4.643	-4.716	0.141	-9.375	-9.763
450	-4.58	-4.653	0.141	-9.375	-9.763
460	-4.517	-4.59	0.141	-9.375	-9.763
470	-4.455	-4.527	0.141	-9.375	-9.763
480	-4.392	-4.464	0.141	-9.375	-9.763
490	-4.329	-4.401	0.141	-9.375	-9.763
500	-4.298	-4.37	0.141	-9.375	-9.763
510	-4.235	-4.307	0.141	-9.375	-9.763
520	-4.172	-4.244	0.141	-9.375	-9.763
530	-4.141	-4.213	0.141	-9.375	-9.763
540	-4.078	-4.15	0.141	-9.375	-9.763
550	-4.047	-4.087	0.141	-9.375	-9.763
560	-3.984	-4.055	0.141	-9.375	-9.763
570	-3.921	-3.992	0.141	-9.375	-9.763
580	-3.89	-3.961	0.141	-9.375	-9.763
590	-3.827	-3.93	0.141	-9.375	-9.763
600	-3.796	-3.867	0.141	-9.375	-9.763
610	-3.764	-3.835	0.141	-9.375	-9.763
620	-3.702	-3.804	0.141	-9.375	-9.763
630	-3.67	-3.741	0.141	-9.375	-9.763
640	-3.639	-3.71	0.141	-9.375	-9.763
650	-3.608	-3.678	0.141	-9.375	-9.763
660	-3.545	-3.615	0.141	-9.375	-9.763
670	-3.513	-3.584	0.141	-9.375	-9.763
680	-3.482	-3.552	0.141	-9.375	-9.763
690	-3.451	-3.521	0.141	-9.375	-9.763
700	-3.388	-3.458	0.141	-9.375	-9.763
710	-3.357	-3.427	0.141	-9.375	-9.763
720	-3.325	-3.395	0.141	-9.375	-9.763
730	-3.294	-3.364	0.141	-9.375	-9.763
740	-3.262	-3.332	0.141	-9.375	-9.763
750	-3.231	-3.301	0.141	-9.375	-9.763
760	-3.168	-3.269	0.141	-9.375	-9.763
770	-3.168	-3.238	0.141	-9.375	-9.763
780	-3.106	-3.206	0.141	-9.375	-9.763
790	-3.106	-3.175	0.141	-9.375	-9.763
800	-3.043	-3.144	0.141	-9.375	-9.763
810	-3.011	-3.112	0.141	-9.375	-9.763
820	-3.011	-3.081	0.141	-9.375	-9.763
830	-2.98	-3.049	0.141	-9.375	-9.763
840	-2.949	-3.018	0.141	-9.375	-9.763
850	-2.917	-2.986	0.141	-9.375	-9.763
860	-2.886	-2.955	0.141	-9.375	-9.763
870	-2.855	-2.923	0.141	-9.375	-9.763
880	-2.823	-2.892	0.141	-9.375	-9.763
890	-2.792	-2.861	0.141	-9.375	-9.763
900	-2.76	-2.829	0.141	-9.375	-9.763
910	-2.729	-2.829	0.141	-9.375	-9.763
920	-2.729	-2.798	0.141	-9.375	-9.763
930	-2.698	-2.766	0.141	-9.375	-9.763
940	-2.666	-2.735	0.141	-9.375	-9.763
950	-2.635	-2.703	0.141	-9.375	-9.763
960	-2.604	-2.672	0.141	-9.375	-9.763
970	-2.572	-2.672	0.141	-9.375	-9.763
980	-2.572	-2.641	0.141	-9.375	-9.763
990	-2.541	-2.609	0.141	-9.375	-9.763
1000	-2.509	-2.578	0.141	-9.375	-9.763
1010	-2.478	-2.578	0.141	-9.375	-9.763
1020	-2.478	-2.546	0.141	-9.375	-9.763
1030	-2.447	-2.515	0.141	-9.375	-9.763
1040	-2.415	-2.515	0.141	-9.375	-9.763
1050	-2.415	-2.483	0.141	-9.375	-9.763
1060	-2.384	-2.452	0.141	-9.375	-9.763
1070	-2.353	-2.452	0.141	-9.375	-9.763
1080	-2.353	-2.42	0.141	-9.375	-9.763
1090	-2.321	-2.42	0.141	-9.375	-9.763
1100	-2.321	-2.389	0.141	-9.375	-9.763

UPPER PERMEABLE ZONE (INTERMEDIATE AQUIFER SYSTEM) DRAWDOWN PHASE

Elapsed Time (min)	Input 1 8" Upper point pumped	Input 2 2" Upper point OW	Input 3 4" Mid-point OW	Input 4 12" Lower point	Input 5 12" Sunderland
1100	-38.651	-14.714	0.094	-0.084	-0.028
1110	-38.682	-14.746	0.094	-0.075	-0.023
1120	-38.682	-14.777	0.094	-0.07	-0.019
1130	-38.682	-14.777	0.094	-0.061	-0.014
1140	-38.713	-14.809	0.094	-0.061	-0.014
1150	-38.682	-14.777	0.094	-0.051	-0.009
1160	-38.713	-14.84	0.094	-0.051	-0.009
1170	-38.745	-14.872	0.094	-0.051	-0.009
1180	-38.808	-14.903	0.094	-0.051	-0.019
1190	-38.839	-14.903	0.094	-0.051	-0.023
1200	-38.808	-14.934	0.094	-0.047	-0.023
1210	-38.902	-14.966	0.094	-0.051	-0.028
1220	-38.87	-14.966	0.094	-0.051	-0.033
1230	-38.87	-14.997	0.094	-0.056	-0.038
1240	-38.964	-14.997	0.094	-0.056	-0.042
1250	-39.027	-15.029	0.094	-0.061	-0.052
1260	-38.964	-15.06	0.094	-0.065	-0.057
1270	-39.058	-15.06	0.094	-0.07	-0.066
1280	-39.058	-15.092	0.094	-0.075	-0.076
1290	-38.964	-15.092	0.094	-0.084	-0.076
1300	-39.027	-15.123	0.094	-0.084	-0.085
1310	-39.027	-15.155	0.094	-0.089	-0.085
1320	-39.027	-15.155	0.109	-0.094	-0.095
1330	-39.058	-15.186	0.109	-0.103	-0.099
1340	-39.09	-15.186	0.109	-0.103	-0.104
1350	-39.121	-15.186	0.109	-0.108	-0.109
1360	-39.09	-15.217	0.109	-0.112	-0.118
1370	-39.121	-15.249	0.109	-0.122	-0.123
1380	-39.121	-15.249	0.109	-0.126	-0.133
1390	-39.184	-15.28	0.109	-0.126	-0.133
1400	-39.184	-15.28	0.109	-0.131	-0.137
1410	-39.247	-15.312	0.109	-0.136	-0.142
1420	-39.278	-15.312	0.109	-0.136	-0.142
1430	-39.247	-15.343	0.109	-0.141	-0.147
1440	-39.215	-15.343	0.109	-0.141	-0.152
1450	-39.309	-15.375	0.109	-0.141	-0.147
1460	-39.309	-15.375	0.109	-0.141	-0.152
1470	-39.278	-15.406	0.109	-0.131	-0.142
1480	-39.341	-15.406	0.109	-0.126	-0.133
1490	-39.309	-15.406	0.125	-0.122	-0.128
1500	-39.309	-15.406	0.125	-0.112	-0.118
1510	-39.404	-15.375	0.125	-0.103	-0.114
1520	-39.372	-15.438	0.125	-0.103	-0.109
1530	-39.341	-15.438	0.125	-0.098	-0.104
1540	-39.341	-15.438	0.125	-0.094	-0.099
1550	-39.404	-15.469	0.125	-0.089	-0.09
1560	-39.404	-15.469	0.125	-0.079	-0.085
1570	-39.309	-15.469	0.125	-0.079	-0.085
1580	-39.404	-15.469	0.125	-0.075	-0.08
1590	-39.341	-15.469	0.125	-0.065	-0.071
1600	-39.404	-15.5	0.125	-0.065	-0.071
1610	-39.404	-15.532	0.125	-0.065	-0.066
1620	-39.341	-15.532	0.125	-0.061	-0.066
1630	-39.404	-15.532	0.125	-0.056	-0.061
1640	-39.435	-15.532	0.125	-0.051	-0.052
1650	-39.435	-15.563	0.125	-0.047	-0.047
1660	-39.498	-15.563	0.125	-0.042	-0.047
1670	-39.498	-15.563	0.125	-0.037	-0.038
1680	-39.529	-15.563	0.125	-0.032	-0.033
1690	-39.498	-15.595	0.125	-0.028	-0.028
1700	-39.498	-15.595	0.141	-0.018	-0.023
1710	-39.498	-15.595	0.141	-0.014	-0.019
1720	-39.498	-15.626	0.141	-0.014	-0.014
1730	-39.498	-15.626	0.141	-0.004	-0.004
1740	-39.498	-15.626	0.141	0	-0.004
1750	-39.498	-15.626	0.141	0.004	0
1760	-39.529	-15.658	0.141	0.009	0.004
1770	-39.498	-15.658	0.141	0.014	0.014
1780	-39.56	-15.658	0.141	0.018	0.014
1790	-39.56	-15.689	0.141	0.023	0.019
1800	-39.56	-15.689	0.141	0.023	0.019
1810	-39.56	-15.689	0.141	0.028	0.023

UPPER PERMEABLE ZONE (INTERMEDIATE AQUIFER SYSTEM) RECOVERY PHASE

Elapsed Time (min)	Input 1 8" Upper point pumped	Input 2 2" Upper point OW	Input 3 4" Mid-point OW	Input 4 12" Lower point	Input 5 12" Sunderland
1110	-2.29	-2.389	0.141	-9.375	-9.763
1120	-2.29	-2.358	0.141	-9.375	-9.763
1130	-2.258	-2.358	0.141	-9.375	-9.763
1140	-2.258	-2.326	0.141	-9.375	-9.763
1150	-2.227	-2.326	0.141	-9.375	-9.763
1160	-2.227	-2.295	0.141	-9.375	-9.763
1170	-2.196	-2.263	0.141	-9.375	-9.763
1180	-2.196	-2.263	0.125	-9.375	-9.763
1190	-2.196	-2.232	0.141	-9.375	-9.763
1200	-2.164	-2.232	0.141	-9.375	-9.763
1210	-2.133	-2.232	0.141	-9.375	-9.763
1220	-2.133	-2.2	0.125	-9.375	-9.763
1230	-2.133	-2.2	0.125	-9.375	-9.763
1240	-2.102	-2.169	0.125	-9.375	-9.763
1250	-2.102	-2.169	0.125	-9.375	-9.763
1260	-2.07	-2.169	0.125	-9.375	-9.763
1270	-2.07	-2.137	0.125	-9.375	-9.763
1280	-2.07	-2.137	0.125	-9.375	-9.763
1290	-2.039	-2.106	0.125	-9.375	-9.763
1300	-2.039	-2.106	0.125	-9.375	-9.763
1310	-2.007	-2.106	0.125	-9.375	-9.763
1320	-2.007	-2.075	0.125	-9.375	-9.763
1330	-2.007	-2.075	0.125	-9.375	-9.763
1340	-1.976	-2.075	0.125	-9.375	-9.763
1350	-1.976	-2.043	0.125	-9.375	-9.763
1360	-1.976	-2.043	0.125	-9.375	-9.763
1370	-1.945	-2.043	0.125	-9.375	-9.763
1380	-1.945	-2.012	0.109	-9.375	-9.763
1390	-1.913	-2.012	0.109	-9.375	-9.763
1400	-1.913	-1.98	0.109	-9.375	-9.763
1410	-1.913	-1.98	0.125	-9.375	-9.763
1420	-1.882	-1.949	0.109	-9.375	-9.763
1430	-1.882	-1.949	0.109	-9.375	-9.763
1440	-1.851	-1.949	0.109	-9.375	-9.763
1450	-1.851	-1.917	0.109	-9.375	-9.763
1460	-1.851	-1.917	0.109	-9.375	-9.763
1470	-1.819	-1.886	0.109	-9.375	-9.763
1480	-1.819	-1.886	0.109	-9.375	-9.763
1490	-1.788	-1.886	0.109	-9.375	-9.763
1500	-1.788	-1.854	0.109	-9.375	-9.763
1510	-1.756	-1.854	0.109	-9.375	-9.763
1520	-1.756	-1.823	0.109	-9.375	-9.763
1530	-1.756	-1.823	0.109	-9.375	-9.763
1540	-1.725	-1.823	0.094	-9.375	-9.763
1550	-1.725	-1.792	0.094	-9.375	-9.763
1560	-1.725	-1.792	0.094	-9.375	-9.763
1570	-1.725	-1.792	0.109	-9.375	-9.763
1580	-1.694	-1.76	0.094	-9.375	-9.763
1590	-1.694	-1.76	0.094	-9.375	-9.763
1600	-1.694	-1.76	0.094	-9.375	-9.763
1610	-1.662	-1.76	0.094	-9.375	-9.763
1620	-1.662	-1.729	0.094	-9.375	-9.763
1630	-1.631	-1.729	0.094	-9.375	-9.763
1640	-1.631	-1.729	0.094	-9.375	-9.763
1650	-1.631	-1.697	0.094	-9.375	-9.763
1660	-1.631	-1.697	0.094	-9.375	-9.763
1670	-1.631	-1.697	0.094	-9.375	-9.763
1680	-1.6	-1.697	0.094	-9.375	-9.763
1690	-1.6	-1.666	0.094	-9.375	-9.763
1700	-1.6	-1.666	0.094	-9.375	-9.763
1710	-1.6	-1.666	0.094	-9.375	-9.763
1720	-1.568	-1.634	0.094	-9.375	-9.763
1730	-1.568	-1.634	0.094	-9.375	-9.763
1740	-1.568	-1.634	0.094	-9.375	-9.763
1750	-1.568	-1.634	0.094	-9.375	-9.763
1760	-1.537	-1.634	0.094	-9.375	-9.763
1770	-1.537	-1.603	0.094	-9.375	-9.763
1780	-1.537	-1.603	0.094	-9.375	-9.763
1790	-1.537	-1.603	0.094	-9.375	-9.763
1800	-1.505	-1.603	0.094	-9.375	-9.763
1810	-1.505	-1.572	0.078	-9.375	-9.763
1820	-1.505	-1.603	0.078	-9.375	-9.763

UPPER PERMEABLE ZONE (INTERMEDIATE AQUIFER SYSTEM) DRAWDOWN PHASE

Elapsed Time (min)	Input 1 48" Upper perm. pumped	Input 2 36" Upper perm. OB	Input 3 24" Upper perm. IB	Input 4 12" Lower perm.	Input 5 12" Subvertical
1820	-39.592	-15.669	0.141	0.028	0.023
1830	-39.655	-15.658	0.141	0.037	0.028
1840	-39.592	-15.721	0.141	0.032	0.023
1850	-39.592	-15.721	0.141	0.032	0.023
1860	-39.623	-15.721	0.141	0.032	0.023
1870	-39.655	-15.752	0.141	0.032	0.023
1880	-39.592	-15.752	0.141	0.032	0.023
1890	-39.686	-15.752	0.141	0.028	0.019
1900	-39.655	-15.783	0.141	0.023	0.014
1910	-39.686	-15.783	0.141	0.023	0.014
1920	-39.686	-15.783	0.141	0.018	0.009
1930	-39.717	-15.815	0.141	0.014	0.004
1940	-39.717	-15.815	0.141	0.009	0
1950	-39.655	-15.783	0.141	0.004	0
1960	-39.686	-15.783	0.141	0	-0.009
1970	-39.749	-15.846	0.141	-0.009	-0.014
1980	-39.686	-15.846	0.141	-0.014	-0.023
1990	-39.717	-15.846	0.141	-0.023	-0.028
2000	-39.717	-15.878	0.141	-0.028	-0.038
2010	-39.717	-15.878	0.141	-0.037	-0.042
2020	-39.811	-15.878	0.141	-0.042	-0.047
2030	-39.749	-15.878	0.141	-0.042	-0.047
2040	-39.78	-15.909	0.156	-0.047	-0.057
2050	-39.717	-15.909	0.156	-0.051	-0.052
2060	-39.78	-15.909	0.156	-0.051	-0.052
2070	-39.749	-15.909	0.156	-0.065	-0.066
2080	-39.749	-15.941	0.141	-0.075	-0.066
2090	-39.78	-15.941	0.141	-0.084	-0.08
2100	-39.811	-15.941	0.141	-0.094	-0.08
2110	-39.811	-15.972	0.141	-0.098	-0.085
2120	-39.843	-15.972	0.141	-0.103	-0.09
2130	-39.811	-15.972	0.141	-0.108	-0.09
2140	-39.811	-15.941	0.156	-0.108	-0.09
2150	-39.874	-15.972	0.156	-0.112	-0.095
2160	-39.78	-16.004	0.156	-0.117	-0.095
2170	-39.874	-16.004	0.141	-0.122	-0.095
2180	-39.874	-16.004	0.156	-0.126	-0.099
2190	-39.905	-16.004	0.156	-0.131	-0.095
2200	-39.905	-15.972	0.156	-0.122	-0.095
2210	-39.905	-16.035	0.156	-0.126	-0.095
2220	-39.905	-16.035	0.156	-0.126	-0.099
2230	-39.937	-16.035	0.156	-0.122	-0.085
2240	-39.937	-16.035	0.156	-0.126	-0.085
2250	-39.905	-16.066	0.141	-0.131	-0.085
2260	-39.905	-16.066	0.156	-0.136	-0.08
2270	-39.937	-16.066	0.156	-0.136	-0.076

UPPER PERMEABLE ZONE (INTERMEDIATE AQUIFER SYSTEM) RECOVERY PHASE

Elapsed Time (min)	Input 1 48" Upper perm. pumped	Input 2 36" Upper perm. OB	Input 3 24" Subvertical IB	Input 4 12" Lower perm.	Input 5 12" Subvertical
1830	-1.505	-1.572	0.078	-9.375	-9.763
1840	-1.505	-1.572	0.094	-9.375	-9.763
1850	-1.505	-1.572	0.094	-9.375	-9.763
1860	-1.505	-1.572	0.094	-9.375	-9.763
1870	-1.505	-1.54	0.109	-9.375	-9.763
1880	-1.474	-1.54	0.109	-9.375	-9.763
1890	-1.474	-1.54	0.125	-9.375	-9.763
1900	-1.443	-1.54	0.141	-9.375	-9.763
1910	-1.443	-1.54	0.156	-9.375	-9.763
1920	-1.443	-1.509	0.172	-9.375	-9.763
1930	-1.443	-1.509	0.203	-9.375	-9.763
1940	-1.411	-1.509	0.219	-9.375	-9.763
1950	-1.411	-1.477	0.235	-9.375	-9.763
1960	-1.411	-1.477	0.266	-9.375	-9.763
1970	-1.411	-1.477	0.282	-9.375	-9.763
1980	-1.411	-1.477	0.313	-9.375	-9.763
1990	-1.411	-1.446	0.345	-9.375	-9.763
2000	-1.38	-1.446	0.36	-9.375	-9.763
2010	-1.38	-1.477	0.392	-9.375	-9.763
2020	-1.38	-1.477	0.407	-9.375	-9.763
2030	-1.38	-1.446	0.423	-9.375	-9.763
2040	-1.38	-1.446	0.439	-9.375	-9.763
2050	-1.38	-1.446	0.454	-9.375	-9.763
2060	-1.38	-1.446	0.47	-9.375	-9.763
2070	-1.38	-1.446	0.486	-9.375	-9.763
2080	-1.349	-1.446	0.501	-9.375	-9.763
2090	-1.349	-1.414	0.517	-9.375	-9.763
2100	-1.349	-1.414	0.517	-9.375	-9.763
2110	-1.349	-1.414	0.533	-9.375	-9.763
2120	-1.349	-1.414	0.533	-9.375	-9.763
2130	-1.349	-1.414	0.548	-9.375	-9.763
2140	-1.317	-1.414	0.548	-9.375	-9.763
2150	-1.317	-1.383	0.564	-9.375	-9.763
2160	-1.317	-1.383	0.564	-9.375	-9.763
2170	-1.317	-1.383	0.564	-9.375	-9.763
2180	-1.317	-1.383	0.564	-9.375	-9.763
2190	-1.317	-1.383	0.58	-9.375	-9.763
2200	-1.317	-1.383	0.58	-9.375	-9.763
2210	-1.286	-1.383	0.58	-9.375	-9.763
2220	-1.286	-1.383	0.58	-9.375	-9.763
2230	-1.286	-1.383	0.596	-9.375	-9.763
2240	-1.286	-1.351	0.596	-9.375	-9.763
2250	-1.286	-1.351	0.596	-9.375	-9.763
2260	-1.286	-1.351	0.596	-9.375	-9.763
2270	-1.254	-1.351	0.596	-9.375	-9.763
2280	-1.254	-1.351	0.611	-9.375	-9.763
2290	-1.254	-1.32	0.611	-9.375	-9.763
2300	-1.254	-1.32	0.611	-9.375	-9.763
2310	-1.254	-1.32	0.611	-9.375	-9.763
2320	-1.254	-1.32	0.611	-9.375	-9.763
2330	-1.223	-1.32	0.611	-9.375	-9.763
2340	-1.223	-1.32	0.611	-9.375	-9.763
2350	-1.223	-1.289	0.611	-9.375	-9.763
2360	-1.223	-1.289	0.611	-9.375	-9.763
2370	-1.223	-1.289	0.611	-9.375	-9.763
2380	-1.223	-1.289	0.611	-9.375	-9.763
2390	-1.192	-1.289	0.611	-9.375	-9.763
2400	-1.192	-1.289	0.611	-9.375	-9.763
2410	-1.192	-1.289	0.627	-9.375	-9.763
2420	-1.192	-1.257	0.627	-9.375	-9.763
2430	-1.192	-1.289	0.611	-9.375	-9.763
2440	-1.192	-1.257	0.627	-9.375	-9.763
2450	-1.192	-1.257	0.627	-9.375	-9.763
2460	-1.192	-1.257	0.627	-9.375	-9.763
2470	-1.192	-1.257	0.627	-9.375	-9.763
2480	-1.192	-1.257	0.627	-9.375	-9.763
2490	-1.16	-1.257	0.627	-9.375	-9.763
2500	-1.16	-1.257	0.627	-9.375	-9.763
2510	-1.16	-1.257	0.627	-9.375	-9.763
2520	-1.16	-1.226	0.627	-9.375	-9.763
2530	-1.16	-1.257	0.627	-9.375	-9.763
2540	-1.16	-1.226	0.627	-9.375	-9.763

UPPER PERMEABLE ZONE (INTERMEDIATE AQUIFER SYSTEM) DRAWDOWN PHASE

Column1 Time, (min)	Input 1 ΔP Upper perm pumped	Input 2 ΔP Upper perm OB	Input 3 ΔP Skin/well OB	Input 4 ΔP Lower perm	Input 5 ΔP Superimpos

UPPER PERMEABLE ZONE (INTERMEDIATE AQUIFER SYSTEM) RECOVERY PHASE

Column1 Time, (min)	Input 1 ΔP Upper perm pumped	Input 2 ΔP Upper perm OB	Input 3 ΔP Skin/well OB	Input 4 ΔP Lower perm	Input 5 ΔP Superimpos
2550	-1.16	-1.226	0.627	-9.375	-9.763
2560	-1.16	-1.226	0.627	-9.375	-9.763
2570	-1.16	-1.226	0.627	-9.375	-9.763
2580	-1.16	-1.226	0.627	-9.375	-9.763
2590	-1.16	-1.226	0.627	-9.375	-9.763
2600	-1.16	-1.226	0.627	-9.375	-9.763
2610	-1.16	-1.226	0.627	-9.375	-9.763
2620	-1.16	-1.226	0.627	-9.375	-9.763
2630	-1.16	-1.226	0.627	-9.375	-9.763
2640	-1.129	-1.226	0.627	-9.375	-9.763
2650	-1.16	-1.226	0.627	-9.375	-9.763
2660	-1.129	-1.226	0.627	-9.375	-9.763
2670	-1.129	-1.226	0.627	-9.375	-9.763
2680	-1.129	-1.226	0.627	-9.375	-9.763
2690	-1.129	-1.226	0.627	-9.375	-9.763
2700	-1.129	-1.194	0.627	-9.375	-9.763
2710	-1.129	-1.194	0.627	-9.375	-9.763
2720	-1.129	-1.226	0.627	-9.375	-9.763
2730	-1.129	-1.226	0.627	-9.375	-9.763
2740	-1.129	-1.226	0.611	-9.375	-9.763
2750	-1.129	-1.194	0.627	-9.375	-9.763
2760	-1.129	-1.226	0.611	-9.375	-9.763
2770	-1.129	-1.194	0.627	-9.375	-9.763
2780	-1.129	-1.194	0.627	-9.375	-9.763
2790	-1.129	-1.194	0.627	-9.375	-9.763
2800	-1.129	-1.194	0.627	-9.375	-9.763
2810	-1.129	-1.194	0.627	-9.375	-9.763
2820	-1.129	-1.194	0.627	-9.375	-9.763
2830	-1.129	-1.194	0.611	-9.375	-9.763
2840	-1.129	-1.194	0.627	-9.375	-9.763
2850	-1.129	-1.194	0.627	-9.375	-9.763
2860	-1.129	-1.194	0.627	-9.375	-9.763
2870	-1.129	-1.194	0.627	-9.375	-9.763
2880	-1.098	-1.194	0.611	-9.375	-9.763
2890	-1.098	-1.194	0.627	-9.375	-9.763
2900	-1.098	-1.194	0.611	-9.375	-9.763
2910	-1.098	-1.163	0.611	-9.375	-9.763
2920	-1.098	-1.163	0.611	-9.375	-9.763
2930	-1.098	-1.163	0.611	-9.375	-9.763
2940	-1.098	-1.163	0.611	-9.375	-9.763
2950	-1.098	-1.163	0.611	-9.375	-9.763
2960	-1.098	-1.163	0.611	-9.375	-9.763
2970	-1.098	-1.163	0.611	-9.375	-9.763
2980	-1.098	-1.163	0.611	-9.375	-9.763
2990	-1.098	-1.163	0.611	-9.375	-9.763
3000	-1.098	-1.163	0.611	-9.375	-9.763
3010	-1.098	-1.163	0.611	-9.375	-9.763
3020	-1.066	-1.163	0.611	-9.375	-9.763
3030	-1.098	-1.163	0.611	-9.375	-9.763
3040	-1.098	-1.163	0.596	-9.375	-9.763
3050	-1.066	-1.163	0.611	-9.375	-9.763
3060	-1.098	-1.163	0.596	-9.375	-9.763
3070	-1.098	-1.163	0.611	-9.375	-9.763
3080	-1.066	-1.163	0.596	-9.375	-9.763
3090	-1.066	-1.163	0.596	-9.375	-9.763
3100	-1.066	-1.163	0.596	-9.375	-9.763
3110	-1.066	-1.163	0.596	-9.375	-9.763
3120	-1.066	-1.131	0.596	-9.375	-9.763
3130	-1.066	-1.163	0.596	-9.375	-9.763
3140	-1.066	-1.131	0.596	-9.375	-9.763
3150	-1.066	-1.131	0.596	-9.375	-9.763
3160	-1.066	-1.131	0.596	-9.375	-9.763
3170	-1.066	-1.131	0.596	-9.375	-9.763
3180	-1.066	-1.131	0.596	-9.375	-9.763
3190	-1.066	-1.131	0.596	-9.375	-9.763
3200	-1.066	-1.131	0.596	-9.375	-9.763
3210	-1.066	-1.131	0.596	-9.375	-9.763
3220	-1.066	-1.131	0.596	-9.375	-9.763
3230	-1.066	-1.131	0.596	-9.375	-9.763
3240	-1.066	-1.131	0.596	-9.375	-9.763
3250	-1.066	-1.131	0.596	-9.375	-9.763
3260	-1.066	-1.131	0.596	-9.375	-9.763

UPPER PERMEABLE ZONE (INTERMEDIATE AQUIFER SYSTEM) DRAWDOWN PHASE

Elapsed Time (min)	Input 1 8" Upper perm. Piezom	Input 2 2" Upper perm GB	Input 3 4" Semi-conf GB	Input 4 12" Lower perm	Input 5 12" Groundwater

UPPER PERMEABLE ZONE (INTERMEDIATE AQUIFER SYSTEM) RECOVERY PHASE

Elapsed Time (min)	Input 1 8" Upper perm piezom	Input 2 2" Upper perm GB	Input 3 4" Semi-conf GB	Input 4 12" Lower perm	Input 5 12" Groundwater
3270	-1.066	-1.131	0.596	-9.375	-9.763
3280	-1.066	-1.131	0.596	-9.375	-9.763
3290	-1.066	-1.131	0.58	-9.375	-9.763
3300	-1.066	-1.131	0.58	-9.375	-9.763
3310	-1.066	-1.131	0.58	-9.375	-9.763
3320	-1.066	-1.131	0.58	-9.375	-9.763
3330	-1.066	-1.131	0.58	-9.375	-9.763
3340	-1.066	-1.131	0.58	-9.375	-9.763
3350	-1.066	-1.131	0.58	-9.375	-9.763
3360	-1.098	-1.163	0.58	-9.375	-9.763
3370	-1.066	-1.131	0.58	-9.375	-9.763
3380	-1.066	-1.131	0.58	-9.375	-9.763
3390	-1.098	-1.131	0.58	-9.375	-9.763
3400	-1.066	-1.131	0.58	-9.375	-9.763
3410	-1.098	-1.163	0.58	-9.375	-9.763
3420	-1.066	-1.163	0.58	-9.375	-9.763
3430	-1.098	-1.163	0.58	-9.375	-9.763
3440	-1.066	-1.131	0.58	-9.375	-9.763
3450	-1.098	-1.163	0.58	-9.375	-9.763
3460	-1.098	-1.163	0.58	-9.375	-9.763
3470	-1.098	-1.163	0.58	-9.375	-9.763
3480	-1.098	-1.163	0.58	-9.375	-9.763
3490	-1.098	-1.163	0.58	-9.375	-9.763
3500	-1.066	-1.163	0.58	-9.375	-9.763
3510	-1.066	-1.163	0.58	-9.375	-9.763
3520	-1.098	-1.163	0.58	-9.375	-9.763
3530	-1.098	-1.163	0.58	-9.375	-9.763
3540	-1.098	-1.163	0.58	-9.375	-9.763
3550	-1.098	-1.163	0.58	-9.375	-9.763
3560	-1.098	-1.163	0.58	-9.375	-9.763
3570	-1.098	-1.163	0.58	-9.375	-9.763
3580	-1.098	-1.163	0.58	-9.375	-9.763
3590	-1.098	-1.131	0.58	-9.375	-9.763
3600	-1.066	-1.131	0.58	-9.375	-9.763
3610	-1.098	-1.163	0.58	-9.375	-9.763
3620	-1.098	-1.131	0.58	-9.375	-9.763
3630	-1.098	-1.163	0.58	-9.375	-9.763
3640	-1.066	-1.131	0.58	-9.375	-9.763
3650	-1.066	-1.131	0.58	-9.375	-9.763
3660	-1.066	-1.131	0.58	-9.375	-9.763
3670	-1.066	-1.131	0.58	-9.375	-9.763
3680	-1.066	-1.131	0.58	-9.375	-9.763
3690	-1.066	-1.131	0.58	-9.375	-9.763
3700	-1.066	-1.131	0.58	-9.375	-9.763
3710	-1.066	-1.131	0.58	-9.375	-9.763
3720	-1.066	-1.131	0.58	-9.375	-9.763
3730	-1.066	-1.131	0.58	-9.375	-9.763
3740	-1.066	-1.131	0.58	-9.375	-9.763
3750	-1.035	-1.131	0.58	-9.375	-9.763
3760	-1.066	-1.131	0.58	-9.375	-9.763
3770	-1.066	-1.131	0.58	-9.375	-9.763
3780	-1.035	-1.1	0.564	-9.375	-9.763
3790	-1.035	-1.131	0.58	-9.375	-9.763
3800	-1.035	-1.131	0.58	-9.375	-9.763
3810	-1.035	-1.1	0.58	-9.375	-9.763
3820	-1.035	-1.1	0.58	-9.375	-9.763
3830	-1.035	-1.1	0.58	-9.375	-9.763
3840	-1.035	-1.1	0.58	-9.375	-9.763
3850	-1.035	-1.1	0.564	-9.375	-9.763
3860	-1.035	-1.1	0.564	-9.375	-9.763
3870	-1.035	-1.1	0.564	-9.375	-9.763
3880	-1.035	-1.1	0.564	-9.375	-9.763
3890	-1.035	-1.1	0.58	-9.375	-9.763
3900	-1.035	-1.1	0.564	-9.375	-9.763
3910	-1.003	-1.1	0.564	-9.375	-9.763
3920	-1.035	-1.068	0.564	-9.375	-9.763
3930	-1.003	-1.068	0.564	-9.375	-9.763
3940	-1.003	-1.068	0.564	-9.375	-9.763
3950	-1.003	-1.068	0.564	-9.375	-9.763
3960	-1.003	-1.068	0.564	-9.375	-9.763
3970	-1.003	-1.068	0.564	-9.375	-9.763
3980	-1.003	-1.068	0.564	-9.375	-9.763

UPPER PERMEABLE ZONE (INTERMEDIATE AQUIFER SYSTEM) DRAWDOWN PHASE

Elapsed Time (min)	Input 1 6" Upper perm pumped	Input 2 2" Upper perm OB	Input 3 4" Surficial OB	Input 4 12" Lower perm	Input 5 12" Suwannee

UPPER PERMEABLE ZONE (INTERMEDIATE AQUIFER SYSTEM) RECOVERY PHASE

Elapsed Time (min)	Input 1 6" Upper perm pumped	Input 2 2" Upper perm OB	Input 3 4" Surficial OB	Input 4 12" Lower perm	Input 5 12" Suwannee
3990	-1.003	-1.068	0.564	-9.375	-9.763
4000	-1.003	-1.068	0.564	-9.375	-9.763
4010	-1.003	-1.068	0.564	-9.375	-9.763
4020	-1.003	-1.068	0.564	-9.375	-9.763
4030	-1.003	-1.068	0.564	-9.375	-9.763
4040	-1.003	-1.068	0.564	-9.375	-9.763
4050	-0.972	-1.068	0.564	-9.375	-9.763
4060	-0.972	-1.037	0.564	-9.375	-9.763
4070	-1.003	-1.068	0.564	-9.375	-9.763
4080	-0.972	-1.068	0.564	-9.375	-9.763
4090	-1.003	-1.068	0.548	-9.375	-9.763
4100	-1.003	-1.037	0.548	-9.375	-9.763
4110	-0.972	-1.068	0.548	-9.375	-9.763
4120	-0.972	-1.068	0.548	-9.375	-9.763
4130	-0.972	-1.037	0.548	-9.375	-9.763
4140	-0.972	-1.068	0.548	-9.375	-9.763
4150	-0.972	-1.037	0.548	-9.375	-9.763
4160	-0.972	-1.068	0.548	-9.375	-9.763
4170	-1.003	-1.068	0.548	-9.375	-9.763
4180	-1.003	-1.037	0.548	-9.375	-9.763
4190	-0.972	-1.068	0.548	-9.375	-9.763
4200	-0.972	-1.037	0.548	-9.375	-9.763
4210	-0.972	-1.068	0.548	-9.375	-9.763
4220	-0.972	-1.037	0.533	-9.375	-9.763
4230	-0.972	-1.068	0.533	-9.375	-9.763
4240	-0.972	-1.037	0.548	-9.375	-9.763
4250	-0.972	-1.037	0.533	-9.375	-9.763
4260	-0.972	-1.037	0.533	-9.375	-9.763
4270	-0.972	-1.037	0.533	-9.375	-9.763
4280	-0.972	-1.037	0.533	-9.375	-9.763
4290	-0.972	-1.037	0.533	-9.375	-9.763
4300	-0.972	-1.037	0.533	-9.375	-9.763
4310	-0.972	-1.037	0.533	-9.375	-9.763
4320	-0.972	-1.037	0.533	-9.375	-9.763
4330	-0.972	-1.037	0.533	-9.375	-9.763
4340	-0.972	-1.037	0.533	-9.375	-9.763
4350	-0.972	-1.037	0.533	-9.375	-9.763
4360	-0.972	-1.037	0.533	-9.375	-9.763
4370	-0.972	-1.037	0.533	-9.375	-9.763
4380	-0.941	-1.037	0.533	-9.375	-9.763
4390	-0.972	-1.037	0.517	-9.375	-9.763
4400	-0.941	-1.037	0.517	-9.375	-9.763
4410	-0.941	-1.037	0.517	-9.375	-9.763
4420	-0.941	-1.037	0.517	-9.375	-9.763
4430	-0.941	-1.006	0.517	-9.375	-9.763
4440	-0.941	-1.006	0.517	-9.375	-9.763
4450	-0.941	-1.006	0.517	-9.375	-9.763
4460	-0.941	-1.006	0.517	-9.375	-9.763
4470	-0.941	-1.006	0.517	-9.375	-9.763
4480	-0.941	-1.006	0.517	-9.375	-9.763
4490	-0.941	-1.006	0.517	-9.375	-9.763
4500	-0.941	-1.006	0.501	-9.375	-9.763
4510	-0.941	-1.006	0.501	-9.375	-9.763
4520	-0.941	-1.006	0.501	-9.375	-9.763
4530	-0.941	-1.006	0.501	-9.375	-9.763
4540	-0.941	-1.006	0.501	-9.375	-9.763
4550	-0.941	-1.006	0.501	-9.375	-9.763
4560	-0.941	-1.006	0.501	-9.375	-9.763
4570	-0.941	-1.006	0.501	-9.375	-9.763
4580	-0.941	-1.006	0.501	-9.375	-9.763
4590	-0.909	-1.006	0.501	-9.375	-9.763
4600	-0.941	-1.006	0.501	-9.375	-9.763
4610	-0.909	-1.006	0.501	-9.375	-9.763
4620	-0.941	-0.974	0.501	-9.375	-9.763
4630	-0.909	-0.974	0.501	-9.375	-9.763
4640	-0.909	-0.974	0.501	-9.375	-9.763
4650	-0.909	-0.974	0.501	-9.375	-9.763
4660	-0.909	-0.974	0.486	-9.375	-9.763
4670	-0.909	-0.974	0.486	-9.375	-9.763
4680	-0.909	-0.974	0.486	-9.375	-9.763
4690	-0.909	-0.974	0.486	-9.375	-9.763
4700	-0.909	-0.974	0.501	-9.375	-9.763

UPPER PERMEABLE ZONE (INTERMEDIATE AQUIFER SYSTEM) DRAWDOWN PHASE

Elapsed Time (min)	Input 1 8" Upper Intm. pumped	Input 2 2" Upper Intm. OB	Input 3 2" Shallow OB	Input 4 12" Lower perm.	Input 5 12" Basewise

UPPER PERMEABLE ZONE (INTERMEDIATE AQUIFER SYSTEM) RECOVERY PHASE

Elapsed Time (min)	Input 1 8" Upper perm. pumped	Input 2 2" Upper perm. OB	Input 3 2" Shallow OB	Input 4 12" Lower perm.	Input 5 12" Basewise
4710	-0.909	-0.974	0.486	-9.375	-9.763
4720	-0.909	-0.974	0.486	-9.375	-9.763
4730	-0.909	-0.974	0.486	-9.375	-9.763
4740	-0.909	-0.974	0.486	-9.375	-9.763
4750	-0.909	-0.974	0.486	-9.375	-9.763
4760	-0.909	-0.974	0.486	-9.375	-9.763
4770	-0.909	-0.974	0.486	-9.375	-9.763
4780	-0.909	-0.974	0.486	-9.375	-9.763
4790	-0.909	-0.974	0.486	-9.375	-9.763
4800	-0.909	-0.974	0.486	-9.375	-9.763
4810	-0.909	-0.974	0.486	-9.375	-9.763
4820	-0.909	-0.943	0.486	-9.375	-9.763
4830	-0.878	-0.943	0.486	-9.375	-9.763
4840	-0.878	-0.974	0.486	-9.375	-9.763
4850	-0.878	-0.943	0.486	-9.375	-9.763
4860	-0.878	-0.943	0.486	-9.375	-9.763
4870	-0.878	-0.943	0.486	-9.375	-9.763
4880	-0.878	-0.974	0.486	-9.375	-9.763
4890	-0.878	-0.943	0.486	-9.375	-9.763
4900	-0.878	-0.943	0.486	-9.375	-9.763
4910	-0.878	-0.943	0.486	-9.375	-9.763
4920	-0.878	-0.943	0.486	-9.375	-9.763
4930	-0.878	-0.943	0.486	-9.375	-9.763
4940	-0.878	-0.943	0.486	-9.375	-9.763
4950	-0.878	-0.943	0.486	-9.375	-9.763
4960	-0.878	-0.943	0.486	-9.375	-9.763
4970	-0.878	-0.943	0.486	-9.375	-9.763
4980	-0.878	-0.943	0.486	-9.375	-9.763
4990	-0.878	-0.943	0.486	-9.375	-9.763
5000	-0.878	-0.943	0.486	-9.375	-9.763
5010	-0.878	-0.943	0.486	-9.375	-9.763
5020	-0.878	-0.943	0.486	-9.375	-9.763
5030	-0.878	-0.943	0.486	-9.375	-9.763
5040	-0.878	-0.911	0.486	-9.375	-9.763
5050	-0.878	-0.943	0.486	-9.375	-9.763
5060	-0.847	-0.911	0.486	-9.375	-9.763
5070	-0.847	-0.911	0.486	-9.375	-9.763
5080	-0.847	-0.943	0.486	-9.375	-9.763
5090	-0.847	-0.911	0.486	-9.375	-9.763
5100	-0.847	-0.911	0.47	-9.375	-9.763
5110	-0.847	-0.911	0.486	-9.375	-9.763
5120	-0.847	-0.911	0.47	-9.375	-9.763
5130	-0.847	-0.911	0.486	-9.375	-9.763
5140	-0.847	-0.911	0.486	-9.375	-9.763
5150	-0.847	-0.911	0.47	-9.375	-9.763
5160	-0.847	-0.911	0.486	-9.375	-9.763
5170	-0.847	-0.911	0.486	-9.375	-9.763
5180	-0.847	-0.911	0.47	-9.375	-9.763
5190	-0.847	-0.911	0.486	-9.375	-9.763
5200	-0.847	-0.911	0.47	-9.375	-9.763
5210	-0.847	-0.911	0.47	-9.375	-9.763
5220	-0.847	-0.911	0.47	-9.375	-9.763
5230	-0.847	-0.911	0.47	-9.375	-9.763
5240	-0.815	-0.88	0.47	-9.375	-9.763
5250	-0.815	-0.88	0.486	-9.375	-9.763
5260	-0.815	-0.88	0.47	-9.375	-9.763
5270	-0.815	-0.911	0.47	-9.375	-9.763
5280	-0.815	-0.88	0.47	-9.375	-9.763
5290	-0.815	-0.88	0.47	-9.375	-9.763
5300	-0.815	-0.88	0.47	-9.375	-9.763
5310	-0.815	-0.88	0.47	-9.375	-9.763
5320	-0.815	-0.88	0.47	-9.375	-9.763
5330	-0.815	-0.88	0.47	-9.375	-9.763
5340	-0.815	-0.88	0.47	-9.375	-9.763
5350	-0.815	-0.88	0.47	-9.375	-9.763
5360	-0.815	-0.88	0.47	-9.375	-9.763
5370	-0.815	-0.88	0.47	-9.375	-9.763
5380	-0.784	-0.88	0.47	-9.375	-9.763
5390	-0.815	-0.848	0.47	-9.375	-9.763
5400	-0.784	-0.848	0.47	-9.375	-9.763
5410	-0.784	-0.848	0.47	-9.375	-9.763
5420	-0.784	-0.848	0.47	-9.375	-9.763

UPPER PERMEABLE ZONE (INTERMEDIATE AQUIFER SYSTEM) DRAWDOWN PHASE

Elapsed Time (min)	Input 1 8" Upper perm. pushing	Input 2 2" Upper perm. OB	Input 3 4" Surficial OB	Input 4 12" Lower perm	Input 5 12" Sumstone

UPPER PERMEABLE ZONE (INTERMEDIATE AQUIFER SYSTEM) RECOVERY PHASE

Elapsed Time (min)	Input 1 8" Upper perm pushing	Input 2 2" Upper perm OB	Input 3 4" Surficial OB	Input 4 12" Lower perm	Input 5 12" Sumstone
5430	-0.784	-0.848	0.47	-9.375	-9.763
5440	-0.784	-0.848	0.47	-9.375	-9.763
5450	-0.784	-0.848	0.47	-9.375	-9.763
5460	-0.784	-0.848	0.47	-9.375	-9.763
5470	-0.784	-0.848	0.47	-9.375	-9.763
5480	-0.784	-0.848	0.454	-9.375	-9.763
5490	-0.784	-0.848	0.454	-9.375	-9.763
5500	-0.784	-0.848	0.454	-9.375	-9.763
5510	-0.784	-0.848	0.454	-9.375	-9.763
5520	-0.784	-0.848	0.454	-9.375	-9.763
5530	-0.784	-0.848	0.454	-9.375	-9.763
5540	-0.784	-0.848	0.454	-9.375	-9.763
5550	-0.784	-0.848	0.454	-9.375	-9.763
5560	-0.784	-0.848	0.454	-9.375	-9.763
5570	-0.784	-0.848	0.454	-9.375	-9.763
5580	-0.784	-0.848	0.454	-9.375	-9.763
5590	-0.784	-0.848	0.454	-9.375	-9.763
5600	-0.784	-0.848	0.454	-9.375	-9.763
5610	-0.784	-0.848	0.454	-9.375	-9.763
5620	-0.784	-0.848	0.454	-9.375	-9.763
5630	-0.784	-0.848	0.454	-9.375	-9.763
5640	-0.784	-0.848	0.454	-9.375	-9.763
5650	-0.784	-0.848	0.454	-9.375	-9.763
5660	-0.784	-0.848	0.454	-9.375	-9.763
5670	-0.784	-0.848	0.439	-9.375	-9.763
5680	-0.784	-0.848	0.439	-9.375	-9.763
5690	-0.784	-0.848	0.439	-9.375	-9.763
5700	-0.784	-0.848	0.439	-9.375	-9.763
5710	-0.784	-0.848	0.439	-9.375	-9.763
5720	-0.784	-0.848	0.439	-9.375	-9.763
5730	-0.784	-0.848	0.439	-9.375	-9.763
5740	-0.752	-0.848	0.439	-9.375	-9.763
5750	-0.784	-0.817	0.439	-9.375	-9.763
5760	-0.752	-0.817	0.439	-9.375	-9.763
5770	-0.752	-0.817	0.439	-9.375	-9.763
5780	-0.752	-0.817	0.439	-9.375	-9.763
5790	-0.752	-0.817	0.439	-9.375	-9.763
5800	-0.752	-0.817	0.439	-9.375	-9.763
5810	-0.752	-0.817	0.439	-9.375	-9.763
5820	-0.752	-0.817	0.439	-9.375	-9.763
5830	-0.752	-0.817	0.439	-9.375	-9.763
5840	-0.752	-0.817	0.423	-9.375	-9.763
5850	-0.752	-0.817	0.423	-9.375	-9.763
5860	-0.752	-0.817	0.423	-9.375	-9.763
5870	-0.752	-0.817	0.423	-9.375	-9.763
5880	-0.752	-0.817	0.423	-9.375	-9.763
5890	-0.752	-0.817	0.423	-9.375	-9.763
5900	-0.752	-0.817	0.423	-9.375	-9.763
5910	-0.752	-0.817	0.423	-9.375	-9.763
5920	-0.752	-0.817	0.423	-9.375	-9.763
5930	-0.752	-0.817	0.423	-9.375	-9.763
5940	-0.752	-0.817	0.423	-9.375	-9.763
5950	-0.752	-0.817	0.423	-9.375	-9.763
5960	-0.721	-0.786	0.407	-9.375	-9.763
5970	-0.752	-0.817	0.423	-9.375	-9.763
5980	-0.721	-0.817	0.407	-9.375	-9.763
5990	-0.721	-0.786	0.407	-9.375	-9.763
6000	-0.721	-0.786	0.407	-9.375	-9.763
6010	-0.721	-0.786	0.407	-9.375	-9.763
6020	-0.721	-0.786	0.407	-9.375	-9.763
6030	-0.752	-0.786	0.407	-9.375	-9.763
6040	-0.721	-0.786	0.407	-9.375	-9.763
6050	-0.721	-0.786	0.407	-9.375	-9.763
6060	-0.721	-0.786	0.407	-9.375	-9.763
6070	-0.721	-0.786	0.407	-9.375	-9.763
6080	-0.721	-0.786	0.407	-9.375	-9.763
6090	-0.721	-0.786	0.407	-9.375	-9.763
6100	-0.721	-0.786	0.407	-9.375	-9.763
6110	-0.721	-0.786	0.407	-9.375	-9.763
6120	-0.721	-0.786	0.407	-9.375	-9.763
6130	-0.721	-0.786	0.407	-9.375	-9.763
6140	-0.721	-0.786	0.407	-9.375	-9.763

UPPER PERMEABLE ZONE (INTERMEDIATE AQUIFER SYSTEM) DRAWDOWN PHASE

Elapsed Time (min)	Input 1 8" Upper perm. pumped	Input 2 2" Upper perm. OB	Input 3 4" Subclay OB	Input 4 12" Lower perm	Input 5 12" Downgrade

UPPER PERMEABLE ZONE (INTERMEDIATE AQUIFER SYSTEM) RECOVERY PHASE

Elapsed Time (min)	Input 1 8" Upper perm. pumped	Input 2 2" Upper perm. OB	Input 3 4" Subclay OB	Input 4 12" Lower perm	Input 5 12" Downgrade
6150	-0.721	-0.786	0.407	-9.375	-9.763
6160	-0.721	-0.786	0.407	-9.375	-9.763
6170	-0.721	-0.786	0.407	-9.375	-9.763
6180	-0.721	-0.786	0.392	-9.375	-9.763
6190	-0.721	-0.786	0.407	-9.375	-9.763
6200	-0.721	-0.786	0.407	-9.375	-9.763
6210	-0.721	-0.786	0.392	-9.375	-9.763
6220	-0.721	-0.786	0.392	-9.375	-9.763
6230	-0.721	-0.786	0.392	-9.375	-9.763
6240	-0.721	-0.786	0.392	-9.375	-9.763
6250	-0.721	-0.786	0.392	-9.375	-9.763
6260	-0.721	-0.786	0.392	-9.375	-9.763
6270	-0.721	-0.786	0.392	-9.375	-9.763
6280	-0.721	-0.786	0.392	-9.375	-9.763
6290	-0.721	-0.786	0.392	-9.375	-9.763
6300	-0.721	-0.786	0.392	-9.375	-9.763
6310	-0.721	-0.786	0.392	-9.375	-9.763
6320	-0.721	-0.786	0.392	-9.375	-9.763
6330	-0.721	-0.754	0.392	-9.375	-9.763
6340	-0.721	-0.786	0.392	-9.375	-9.763
6350	-0.721	-0.754	0.392	-9.375	-9.763
6360	-0.721	-0.754	0.392	-9.375	-9.763
6370	-0.721	-0.786	0.392	-9.375	-9.763
6380	-0.69	-0.754	0.392	-9.375	-9.763
6390	-0.721	-0.754	0.392	-9.375	-9.763
6400	-0.69	-0.754	0.392	-9.375	-9.763
6410	-0.721	-0.754	0.392	-9.375	-9.763
6420	-0.69	-0.754	0.392	-9.375	-9.763
6430	-0.69	-0.786	0.392	-9.375	-9.763
6440	-0.69	-0.754	0.392	-9.375	-9.763
6450	-0.69	-0.754	0.392	-9.375	-9.763
6460	-0.69	-0.754	0.392	-9.375	-9.763
6470	-0.69	-0.754	0.392	-9.375	-9.763
6480	-0.69	-0.754	0.392	-9.375	-9.763
6490	-0.69	-0.754	0.392	-9.375	-9.763
6500	-0.69	-0.754	0.392	-9.375	-9.763
6510	-0.69	-0.754	0.392	-9.375	-9.763
6520	-0.69	-0.754	0.392	-9.375	-9.763
6530	-0.69	-0.754	0.392	-9.375	-9.763
6540	-0.69	-0.754	0.392	-9.375	-9.763
6550	-0.69	-0.754	0.392	-9.375	-9.763
6560	-0.69	-0.754	0.392	-9.375	-9.763
6570	-0.69	-0.754	0.392	-9.375	-9.763
6580	-0.69	-0.754	0.392	-9.375	-9.763
6590	-0.658	-0.754	0.392	-9.375	-9.763
6600	-0.658	-0.754	0.392	-9.375	-9.763
6610	-0.658	-0.723	0.392	-9.375	-9.763
6620	-0.658	-0.723	0.392	-9.375	-9.763
6630	-0.658	-0.723	0.392	-9.375	-9.763
6640	-0.658	-0.723	0.392	-9.375	-9.763
6650	-0.658	-0.723	0.392	-9.375	-9.763
6660	-0.658	-0.723	0.392	-9.375	-9.763
6670	-0.658	-0.723	0.392	-9.375	-9.763
6680	-0.658	-0.723	0.392	-9.375	-9.763
6690	-0.658	-0.723	0.392	-9.375	-9.763
6700	-0.658	-0.723	0.392	-9.375	-9.763
6710	-0.658	-0.723	0.392	-9.375	-9.763
6720	-0.627	-0.723	0.392	-9.375	-9.763
6730	-0.627	-0.691	0.392	-9.375	-9.763
6740	-0.658	-0.691	0.392	-9.375	-9.763
6750	-0.627	-0.691	0.392	-9.375	-9.763
6760	-0.658	-0.691	0.392	-9.375	-9.763
6770	-0.627	-0.691	0.392	-9.375	-9.763
6780	-0.627	-0.691	0.392	-9.375	-9.763
6790	-0.627	-0.691	0.376	-9.375	-9.763
6800	-0.627	-0.691	0.376	-9.375	-9.763
6810	-0.627	-0.691	0.376	-9.375	-9.763
6820	-0.627	-0.691	0.376	-9.375	-9.763
6830	-0.627	-0.691	0.376	-9.375	-9.763
6840	-0.627	-0.691	0.376	-9.375	-9.763
6850	-0.627	-0.691	0.376	-9.375	-9.763
6860	-0.627	-0.691	0.376	-9.375	-9.763

UPPER PERMEABLE ZONE (INTERMEDIATE AQUIFER SYSTEM) DRAWDOWN PHASE

Elapsed Time (min)	Input 1 (2" Upper perm Pumped)	Input 2 (2" Upper perm OB)	Input 3 (2" Subperm OB)	Input 4 (12" Upper perm)	Input 5 (12" Subperm)

UPPER PERMEABLE ZONE (INTERMEDIATE AQUIFER SYSTEM) RECOVERY PHASE

Elapsed Time (min)	Input 1 (2" Upper perm Pumped)	Input 2 (2" Upper perm OB)	Input 3 (2" Subperm OB)	Input 4 (12" Upper perm)	Input 5 (12" Subperm)
6870	-0.627	-0.691	0.392	-9.375	-9.763
6880	-0.627	-0.66	0.376	-9.375	-9.763
6890	-0.627	-0.691	0.376	-9.375	-9.763
6900	-0.627	-0.691	0.376	-9.375	-9.763
6910	-0.627	-0.691	0.376	-9.375	-9.763
6920	-0.596	-0.691	0.376	-9.375	-9.763
6930	-0.596	-0.66	0.376	-9.375	-9.763
6940	-0.596	-0.66	0.376	-9.375	-9.763
6950	-0.596	-0.66	0.376	-9.375	-9.763
6960	-0.596	-0.66	0.376	-9.375	-9.763
6970	-0.596	-0.66	0.376	-9.375	-9.763
6980	-0.596	-0.66	0.376	-9.375	-9.763
6990	-0.596	-0.66	0.376	-9.375	-9.763
7000	-0.596	-0.66	0.376	-9.375	-9.763
7010	-0.596	-0.66	0.376	-9.375	-9.763
7020	-0.596	-0.66	0.376	-9.375	-9.763
7030	-0.596	-0.66	0.376	-9.375	-9.763
7040	-0.596	-0.66	0.36	-9.375	-9.763
7050	-0.596	-0.66	0.376	-9.375	-9.763
7060	-0.596	-0.66	0.36	-9.375	-9.763
7070	-0.596	-0.66	0.36	-9.375	-9.763
7080	-0.596	-0.66	0.376	-9.375	-9.763
7090	-0.596	-0.66	0.36	-9.375	-9.763
7100	-0.596	-0.66	0.36	-9.375	-9.763
7110	-0.596	-0.66	0.36	-9.375	-9.763
7120	-0.596	-0.66	0.36	-9.375	-9.763
7130	-0.596	-0.66	0.36	-9.375	-9.763
7140	-0.596	-0.66	0.36	-9.375	-9.763
7150	-0.596	-0.66	0.36	-9.375	-9.763
7160	-0.596	-0.66	0.36	-9.375	-9.763
7170	-0.596	-0.66	0.36	-9.375	-9.763
7180	-0.564	-0.66	0.36	-9.375	-9.763
7190	-0.596	-0.66	0.36	-9.375	-9.763
7200	-0.596	-0.691	0.36	-9.375	-9.763
7210	-0.596	-0.66	0.36	-9.375	-9.763
7220	-0.627	-0.691	0.345	-9.375	-9.763

APPENDIX C

Data Logger Water Level Measurements for Lower Permeable Zone (IAS) APT.

SE2000 *lint-c.wpd*

Environmental Logger

04/02 10:48

Unit# 577 Test 0

Setups:	INPUT 1	INPUT 2	INPUT 3	INPUT 4	INPUT 5
Type	Level (F)	Level (F)	Level (F)	Level (F)	Level (F)
Mode	Surface	Surface	Surface	Surface	Surface
I.D.	100	15	15	15	15
Reference	0.000	0.000	0.000	0.000	0.000
PSI at Ref.	19.409	6.662	2.507	1.812	11.237
SG	1.000	1.000	1.000	1.000	1.000
Linearity	0.144	0.073	0.081	0.147	0.110
Scale factor	99.286	14.989	15.012	14.930	15.035
Offset	-0.222	0.034	-0.016	0.116	-0.026
Delay mSEC	50.000	50.000	50.000	50.000	50.000

Step 0 04/02 09:43:06

LOWER PERMEABLE ZONE (IAS) APT DRAWDOWN PHASE

Elapsed Time (min)	Input 1 (PSI Level (Feet) Water)	Input 2 (PSI Level (Feet) Water)	Input 3 (PSI Level (Feet) Water)	Input 4 (PSI Level (Feet) Water)
0	0.062	0.004	0.009	0.009
0.0083	0	0.004	0.009	0.009
0.0166	0.031	0	0.009	0.009
0.025	0.031	0.004	0.009	0.009
0.0333	0.156	0.004	0.009	0.009
0.0416	0.156	0.004	0.009	0.009
0.05	0.125	0.004	0.009	0.009
0.0583	0.062	0.004	0.009	0.009
0.0666	0	0.004	0.004	0.009
0.075	0.031	0.004	0.009	0.009
0.0833	0.125	0.004	0.004	0.009
0.0916	-4.721	0.004	0.004	0.009
0.1	-2.814	0.004	0.004	0.009
0.1083	-4.158	0	0.009	0.009
0.1166	-3.689	0.004	0.009	0.009
0.125	-2.501	0.004	0.009	0.009
0.1333	-1.876	0.004	0.009	0.009
0.1416	-1.313	0	0.009	0.009
0.15	-1.25	0	0.004	0.009
0.1583	-1.188	0.004	0.004	0.009
0.1666	-1.313	0	0.004	0.009
0.175	-1.282	0.004	0.004	0.009
0.1833	-1.344	0	0	0.004
0.1916	-1.25	0.004	0	0.009
0.2	-1.219	0	0	0.009
0.2083	-1.156	0	0	0.009
0.2166	-1.25	0.004	-0.004	0.009
0.225	-1.063	0	-0.004	0.004
0.2333	-1.219	0.004	-0.004	0.004
0.2416	-1.156	0	-0.004	0.009
0.25	-1.125	0.004	-0.009	0.009
0.2583	-25.23	0.004	-0.009	0.009
0.2666	-14.069	0.004	-0.014	0.009
0.275	-11.412	0.004	-0.014	0.009
0.2833	-12.631	0.004	-0.018	0.004
0.2916	-12.412	0.004	-0.014	0.004
0.3	-11.818	0	-0.018	0.009
0.3083	-12.287	0	-0.018	0.009
0.3166	-12.944	0.004	-0.018	0.004
0.325	-13.319	0.004	-0.023	0.009
0.3333	-13.444	0.004	-0.033	0.009

SE2000

Environmental Logger

05/05 07:49

Unit# 577 Test 0

Setups:	INPUT 1	INPUT 2	INPUT 3	INPUT 4	INPUT 5
Type	Level (F)	Level (F)	Level (F)	Level (F)	Level (F)
Mode	Surface	Surface	Surface	Surface	Surface
I.D.	100	15	15	15	15
Reference	0.000	0.000	0.000	0.000	0.000
PSI at Ref.	32.777	6.360	2.496	1.669	11.065
SG	1.000	1.000	1.000	1.000	1.000
Linearity	0.144	0.073	0.081	0.147	0.110
Scale factor	99.286	14.989	15.012	14.930	15.035
Offset	-0.222	0.034	-0.016	0.116	-0.026
Delay mSEC	50.000	50.000	50.000	50.000	50.000

Step 1 04/03 06:32:01

LOWER PERMEABLE ZONE (IAS) RECOVERY PHASE

Elapsed Time (min)	Input 1 (PSI Level (Feet) Water)	Input 2 (PSI Level (Feet) Water)	Input 3 (PSI Level (Feet) Water)	Input 4 (PSI Level (Feet) Water)
0	-18.915	-0.146	-1.902	-0.146
0.0083	-18.884	-0.146	-1.902	-0.146
0.0166	-16.602	-0.146	-1.902	-0.146
0.025	-16.383	-0.146	-1.902	-0.146
0.0333	-15.508	-0.146	-1.902	-0.146
0.0416	-13.945	-0.146	-1.902	-0.146
0.05	-12.475	-0.146	-1.902	-0.146
0.0583	-11.225	-0.146	-1.907	-0.146
0.0666	-9.568	-0.146	-1.907	-0.146
0.075	-8.755	-0.146	-1.902	-0.146
0.0833	-7.723	-0.146	-1.902	-0.146
0.0916	-5.222	-0.146	-1.907	-0.146
0.1	-1.063	-0.151	-1.902	-0.146
0.1083	23.581	-0.151	-1.902	-0.146
0.1166	-3.252	-0.151	-1.907	-0.146
0.125	-5.816	-0.151	-1.902	-0.146
0.1333	-3.263	-0.146	-1.902	-0.146
0.1416	-2.97	-0.151	-1.902	-0.146
0.15	-4.159	-0.151	-1.898	-0.146
0.1583	-4.409	-0.151	-1.898	-0.146
0.1666	-3.908	-0.151	-1.898	-0.146
0.175	1.657	-0.151	-1.893	-0.146
0.1833	-4.159	-0.151	-1.888	-0.146
0.1916	-1.313	-0.151	-1.888	-0.146
0.2	0.532	-0.151	-1.883	-0.146
0.2083	-2.157	-0.151	-1.883	-0.146
0.2166	-0.438	-0.151	-1.879	-0.146
0.225	-1.751	-0.151	-1.874	-0.146
0.2333	-2.22	-0.151	-1.869	-0.146
0.2416	-2.095	-0.151	-1.864	-0.146
0.25	-2.189	-0.151	-1.864	-0.146
0.2583	-2.72	-0.151	-1.855	-0.146
0.2666	-2.501	-0.151	-1.855	-0.146
0.275	-2.189	-0.151	-1.846	-0.146
0.2833	-2.095	-0.151	-1.846	-0.146
0.2916	-2.032	-0.151	-1.841	-0.146
0.3	-2.22	-0.151	-1.831	-0.146
0.3083	-2.251	-0.151	-1.831	-0.146
0.3166	-2.251	-0.151	-1.822	-0.146
0.325	-2.126	-0.151	-1.817	-0.146
0.3333	-1.939	-0.151	-1.812	-0.146

LOWER PERMEABLE ZONE (IAS) APT DRAWDOWN PHASE

Elapsed Time (min)	Input 1 28' Lower Perm Packer	Input 2 6" Upper Perm	Input 3 12" Silw	Input 4 5' Avon Pk
0.35	-14.194	0.004	-0.033	0.009
0.3666	-14.851	0	-0.042	0.009
0.3833	-13.038	0.004	-0.037	0.009
0.4	-15.945	0.004	-0.066	0.009
0.4166	-16.133	0	-0.066	0.009
0.4333	-16.664	0	-0.075	0.009
0.45	-16.789	0.004	-0.08	0.009
0.4666	-16.445	0	-0.089	0.009
0.4833	-16.914	0.004	-0.099	0.009
0.5	-16.695	0.004	-0.104	0.009
0.5166	-16.758	0.004	-0.113	0.009
0.5333	-16.258	0.004	-0.123	0.009
0.55	-16.414	0.004	-0.137	0.014
0.5666	-15.007	0.004	-0.137	0.014
0.5833	-13.851	0.004	-0.151	0.009
0.6	-12.694	0.004	-0.16	0.009
0.6166	-11.537	0.004	-0.165	0.014
0.6333	-11.349	0.004	-0.175	0.009
0.65	-10.005	0	-0.184	0.009
0.6666	-8.817	0.009	-0.189	0.014
0.6833	-8.317	0.004	-0.198	0.014
0.7	-8.567	0.004	-0.203	0.014
0.7166	-8.129	0.004	-0.213	0.014
0.7333	-9.724	0.004	-0.222	0.014
0.75	-10.755	0.004	-0.222	0.014
0.7666	-11.756	0.009	-0.231	0.014
0.7833	-12.068	0.004	-0.231	0.014
0.8	-12.537	0.004	-0.241	0.014
0.8166	-13.382	0.009	-0.246	0.014
0.8333	-11.506	0.004	-0.246	0.014
0.85	-11.349	0.004	-0.255	0.014
0.8666	-9.442	0.004	-0.26	0.009
0.8833	-5.034	0.004	-0.265	0.009
0.9	13.884	0.004	-0.269	0.014
0.9166	-6.878	0.004	-0.274	0.009
0.9333	-16.821	0.009	-0.279	0.009
0.95	-11.474	0.009	-0.284	0.009
0.9666	-13.694	0.004	-0.284	0.014
0.9833	-13.006	0.004	-0.288	0.009
1	-13.663	0.004	-0.293	0.009
1.2	-16.758	0.009	-0.34	0.014
1.4	-17.727	0.009	-0.407	0.014
1.6	-17.852	0.009	-0.463	0.014
1.8	-17.977	0.009	-0.511	0.014
2	-17.79	0.009	-0.563	0.018
2.2	-17.758	0.009	-0.605	0.014
2.4	-18.008	0.009	-0.643	0.014
2.6	-17.977	0.014	-0.681	0.014
2.8	-18.071	0.009	-0.71	0.014
3	-18.415	0.009	-0.738	0.014
3.2	-18.321	0.009	-0.766	0.014
3.4	-18.102	0.009	-0.79	0.014
3.6	-18.321	0.014	-0.814	0.014
3.8	-18.509	0.014	-0.833	0.014
4	-18.227	0.014	-0.851	0.014
4.2	-18.571	0.009	-0.866	0.014
4.4	-18.602	0.014	-0.885	0.014
4.6	-18.259	0.009	-0.908	0.014

LOWER PERMEABLE ZONE (IAS) RECOVERY PHASE

Elapsed Time (min)	Input 1 28' Lower Perm Packer	Input 2 6" Upper Perm	Input 3 12" Silw	Input 4 5' Avon Pk
0.35	-1.407	-0.151	-1.803	-0.146
0.3666	-1.563	-0.151	-1.793	-0.146
0.3833	-2.126	-0.151	-1.784	-0.146
0.4	-2.251	-0.151	-1.775	-0.146
0.4166	-2.032	-0.151	-1.765	-0.146
0.4333	1.939	-0.151	-1.751	-0.146
0.45	0.688	-0.151	-1.741	-0.146
0.4666	0.469	-0.151	-1.732	-0.146
0.4833	-1.688	-0.151	-1.723	-0.146
0.5	-1.376	-0.151	-1.708	-0.146
0.5166	-0.5	-0.151	-1.694	-0.146
0.5333	-1.563	-0.155	-1.689	-0.146
0.55	-1.657	-0.151	-1.675	-0.146
0.5666	-0.969	-0.151	-1.661	-0.146
0.5833	-0.563	-0.151	-1.652	-0.146
0.6	-0.875	-0.155	-1.642	-0.146
0.6166	-1.001	-0.155	-1.633	-0.146
0.6333	-0.875	-0.151	-1.618	-0.146
0.65	-0.625	-0.155	-1.609	-0.146
0.6666	-0.75	-0.155	-1.6	-0.146
0.6833	-0.875	-0.155	-1.59	-0.146
0.7	-0.719	-0.155	-1.576	-0.146
0.7166	-0.625	-0.155	-1.566	-0.146
0.7333	-0.719	-0.155	-1.557	-0.146
0.75	-0.719	-0.155	-1.547	-0.146
0.7666	-0.657	-0.155	-1.538	-0.146
0.7833	-0.594	-0.155	-1.529	-0.146
0.8	-0.657	-0.155	-1.519	-0.146
0.8166	-0.625	-0.155	-1.51	-0.146
0.8333	-0.594	-0.155	-1.505	-0.146
0.85	-0.5	-0.155	-1.491	-0.146
0.8666	0.5	-0.155	-1.486	-0.146
0.8833	-0.313	-0.155	-1.476	-0.146
0.9	-2.533	-0.155	-1.467	-0.146
0.9166	-1.344	-0.155	-1.458	-0.146
0.9333	-0.438	-0.155	-1.448	-0.146
0.95	-0.156	-0.155	-1.443	-0.146
0.9666	-0.531	-0.155	-1.434	-0.146
0.9833	-0.75	-0.155	-1.424	-0.146
1	-0.406	-0.155	-1.415	-0.146
1.2	-0.344	-0.155	-1.33	-0.146
1.4	-0.281	-0.155	-1.259	-0.146
1.6	-0.219	-0.155	-1.207	-0.146
1.8	-0.188	-0.155	-1.155	-0.146
2	-0.125	-0.16	-1.117	-0.146
2.2	-0.062	-0.155	-1.079	-0.146
2.4	-0.062	-0.16	-1.051	-0.146
2.6	0	-0.16	-1.022	-0.146
2.8	0.438	-0.16	-0.999	-0.146
3	0.282	-0.16	-0.97	-0.146
3.2	0.469	-0.16	-0.951	-0.146
3.4	0.313	-0.16	-0.928	-0.146
3.6	0.344	-0.16	-0.909	-0.146
3.8	0.375	-0.16	-0.89	-0.146
4	0.375	-0.16	-0.875	-0.146
4.2	0.375	-0.16	-0.861	-0.146
4.4	0.407	-0.16	-0.847	-0.146
4.6	0.407	-0.165	-0.833	-0.146

LOWER PERMEABLE ZONE (IAS) APT DRAWDOWN PHASE

Elapsed Time (min)	Input 1 12" Lower perm. Pressure	Input 2 8" Upper perm.	Input 3 12" Stat	Input 4 6" Avon Pk
4.8	-18.634	0.009	-0.913	0.009
5	-18.634	0.014	-0.927	0.014
5.2	-18.759	0.014	-0.941	0.014
5.4	-18.571	0.014	-0.951	0.018
5.6	-18.384	0.014	-0.965	0.014
5.8	-18.634	0.009	-0.979	0.014
6	-18.853	0.004	-0.984	0.014
6.2	-18.602	0.009	-0.998	0.014
6.4	-18.821	0.014	-1.008	0.014
6.6	-18.415	0.014	-1.017	0.014
6.8	-18.196	0.014	-1.031	0.014
7	-18.415	0.014	-1.041	0.014
7.2	-18.509	0.014	-1.046	0.014
7.4	-18.509	0.014	-1.055	0.014
7.6	-18.602	0.014	-1.064	0.014
7.8	-18.696	0.014	-1.069	0.014
8	-18.634	0.009	-1.079	0.014
8.2	-19.134	0.009	-1.088	0.014
8.4	-18.915	0.014	-1.093	0.014
8.6	-18.602	0.014	-1.098	0.014
8.8	-18.446	0.014	-1.112	0.014
9	-19.009	0.014	-1.117	0.014
9.2	-19.103	0.014	-1.121	0.014
9.4	-19.04	0.014	-1.126	0.014
9.6	-18.79	0.014	-1.135	0.014
9.8	-18.759	0.014	-1.14	0.014
10	-18.571	0.014	-1.145	0.009
12	-19.009	0.014	-1.202	0.009
14	-18.634	0.014	-1.244	0.009
16	-19.259	0.009	-1.273	0.009
18	-18.978	0.014	-1.301	0.009
20	-19.353	0.014	-1.329	0.009
22	-18.946	0.014	-1.344	0.009
24	-19.009	0.014	-1.367	0.009
26	-19.353	0.014	-1.391	0.014
28	-19.321	0.014	-1.405	0.009
30	-19.54	0.014	-1.415	0.014
32	-19.54	0.014	-1.424	0.018
34	-19.071	0.014	-1.438	0.014
36	-19.009	0.014	-1.452	0.014
38	-19.572	0.014	-1.471	0.014
40	-19.196	0.014	-1.476	0.014
42	-19.415	0.014	-1.495	0.014
44	-19.572	0.009	-1.495	0.014
46	-19.572	0.014	-1.505	0.014
48	-18.946	0.014	-1.509	0.014
50	-19.259	0.014	-1.519	0.014
52	-19.353	0.014	-1.528	0.014
54	-19.259	0.009	-1.533	0.014
56	-19.572	0.014	-1.542	0.018
58	-19.728	0.014	-1.547	0.018
60	-19.603	0.014	-1.552	0.014
62	-19.134	0.014	-1.557	0.018
64	-19.478	0.014	-1.561	0.018
66	-19.603	0.014	-1.561	0.028
68	-19.509	0.014	-1.561	0.028
70	-19.447	0.014	-1.571	0.028
72	-19.478	0.014	-1.58	0.028

LOWER PERMEABLE ZONE (IAS) RECOVERY PHASE

Elapsed Time (min)	Input 1 12" Lower Perm. Pressure	Input 2 8" Upper perm	Input 3 12" Stat	Input 4 6" Avon Pk
4.8	0.407	-0.165	-0.828	-0.146
5	0.438	-0.165	-0.814	-0.146
5.2	0.438	-0.165	-0.805	-0.146
5.4	0.438	-0.165	-0.795	-0.146
5.6	0.469	-0.165	-0.786	-0.146
5.8	0.469	-0.165	-0.776	-0.146
6	0.469	-0.165	-0.767	-0.146
6.2	0.469	-0.165	-0.762	-0.146
6.4	0.5	-0.165	-0.752	-0.146
6.6	0.5	-0.165	-0.743	-0.146
6.8	0.5	-0.165	-0.738	-0.146
7	0.5	-0.165	-0.734	-0.146
7.2	0.5	-0.165	-0.724	-0.146
7.4	0.5	-0.165	-0.719	-0.146
7.6	0.688	-0.165	-0.715	-0.146
7.8	0.532	-0.165	-0.705	-0.146
8	0.532	-0.165	-0.7	-0.146
8.2	0.657	-0.165	-0.696	-0.146
8.4	0.563	-0.17	-0.686	-0.146
8.6	0.5	-0.17	-0.681	-0.146
8.8	0.563	-0.165	-0.677	-0.146
9	0.563	-0.17	-0.672	-0.146
9.2	0.563	-0.165	-0.667	-0.146
9.4	0.563	-0.17	-0.663	-0.146
9.6	0.594	-0.17	-0.658	-0.146
9.8	0.594	-0.17	-0.653	-0.146
10	0.594	-0.17	-0.648	-0.146
12	0.594	-0.17	-0.615	-0.146
14	0.625	-0.17	-0.587	-0.146
16	0.625	-0.174	-0.558	-0.146
18	0.657	-0.174	-0.535	-0.146
20	0.688	-0.179	-0.521	-0.146
22	0.688	-0.179	-0.506	-0.146
24	0.719	-0.179	-0.487	-0.146
26	0.782	-0.179	-0.473	-0.146
28	0.782	-0.179	-0.459	-0.146
30	0.782	-0.184	-0.45	-0.146
32	0.751	-0.184	-0.44	-0.146
34	0.782	-0.184	-0.435	-0.146
36	0.782	-0.184	-0.426	-0.146
38	0.782	-0.184	-0.416	-0.146
40	0.782	-0.184	-0.407	-0.146
42	0.782	-0.189	-0.402	-0.146
44	0.813	-0.189	-0.393	-0.146
46	0.813	-0.189	-0.393	-0.146
48	0.813	-0.193	-0.383	-0.146
50	0.813	-0.193	-0.379	-0.146
52	0.813	-0.193	-0.374	-0.146
54	0.813	-0.193	-0.369	-0.146
56	0.844	-0.193	-0.36	-0.146
58	0.844	-0.193	-0.355	-0.146
60	0.844	-0.198	-0.355	-0.146
62	0.844	-0.198	-0.341	-0.146
64	0.844	-0.198	-0.345	-0.146
66	0.844	-0.198	-0.341	-0.146
68	0.844	-0.203	-0.336	-0.146
70	0.844	-0.203	-0.331	-0.146
72	0.844	-0.203	-0.331	-0.146

LOWER PERMEABLE ZONE (IAS) APT DRAWDOWN PHASE

Elapsed Time (min)	Input 1 12" Lower Perm. passed	Input 2 8" Upper perm	Input 3 12" Silty	Input 4 8" Avon Pk
74	-19.509	0.014	-1.58	0.028
76	-19.134	0.014	-1.585	0.028
78	-19.509	0.014	-1.59	0.032
80	-19.728	0.014	-1.59	0.032
82	-19.321	0.014	-1.594	0.028
84	-19.509	0.014	-1.604	0.028
86	-19.103	0.014	-1.604	0.032
88	-19.634	0.014	-1.609	0.032
90	-19.384	0.014	-1.618	0.028
92	-19.04	0.014	-1.613	0.032
94	-19.228	0.014	-1.618	0.032
96	-19.29	0.014	-1.623	0.032
98	-19.259	0.018	-1.628	0.032
100	-18.978	0.018	-1.628	0.032
115	-19.384	0.014	-1.646	0.037
130	-19.196	0.014	-1.665	0.042
145	-19.634	0.014	-1.665	0.047
160	-19.29	0.018	-1.67	0.051
175	-19.384	0.018	-1.67	0.065
190	-19.134	0.018	-1.665	0.07
205	-19.29	0.023	-1.67	0.075
220	-19.353	0.018	-1.68	0.075
235	-19.103	0.023	-1.675	0.08
250	-18.978	0.023	-1.68	0.084
265	-19.54	0.028	-1.689	0.084
280	-19.228	0.023	-1.694	0.08
295	-19.29	0.023	-1.694	0.089
310	-19.228	0.028	-1.703	0.08
325	-19.321	0.033	-1.699	0.089
340	-19.196	0.028	-1.703	0.089
355	-19.384	0.028	-1.713	0.08
370	-19.54	0.023	-1.713	0.075
385	-19.478	0.028	-1.727	0.07
400	-19.29	0.023	-1.722	0.061
415	-19.353	0.023	-1.722	0.051
430	-19.259	0.018	-1.722	0.042
445	-18.978	0.014	-1.727	0.037
460	-19.29	0.009	-1.746	0.028
475	-19.196	0.009	-1.76	0.014
490	-18.978	0.004	-1.774	0.004
505	-19.697	0	-1.788	-0.004
520	-19.04	0	-1.798	-0.009
535	-18.79	-0.004	-1.812	-0.023
550	-19.509	-0.009	-1.822	-0.032
565	-18.946	-0.009	-1.831	-0.037
580	-19.259	-0.014	-1.84	-0.047
595	-19.353	-0.018	-1.85	-0.056
610	-19.134	-0.028	-1.864	-0.065
625	-18.821	-0.033	-1.874	-0.08
640	-18.915	-0.033	-1.883	-0.084
655	-19.196	-0.037	-1.888	-0.089
670	-19.165	-0.042	-1.893	-0.094
685	-19.04	-0.042	-1.897	-0.098
700	-18.821	-0.047	-1.902	-0.103
715	-18.853	-0.052	-1.907	-0.103
730	-19.165	-0.052	-1.907	-0.103
745	-19.071	-0.056	-1.911	-0.108
760	-19.196	-0.056	-1.911	-0.103

LOWER PERMEABLE ZONE (IAS) RECOVERY PHASE

Elapsed Time (min)	Input 1 12" Lower Perm. passed	Input 2 8" Upper perm	Input 3 12" Silty	Input 4 8" Avon Pk
74	0.844	-0.203	-0.322	-0.146
76	0.876	-0.203	-0.317	-0.146
78	0.876	-0.203	-0.317	-0.146
80	0.876	-0.208	-0.312	-0.146
82	0.876	-0.208	-0.308	-0.146
84	0.876	-0.208	-0.303	-0.146
86	0.876	-0.208	-0.303	-0.146
88	0.876	-0.208	-0.303	-0.146
90	0.876	-0.208	-0.298	-0.146
92	0.876	-0.208	-0.303	-0.146
94	0.876	-0.212	-0.298	-0.146
96	0.876	-0.212	-0.298	-0.146
98	0.876	-0.212	-0.298	-0.146
100	0.876	-0.212	-0.298	-0.146
115	0.876	-0.217	-0.289	-0.146
130	0.876	-0.222	-0.289	-0.146
145	0.907	-0.231	-0.284	-0.146
160	0.907	-0.236	-0.284	-0.146
175	0.907	-0.241	-0.274	-0.146
190	0.907	-0.245	-0.27	-0.146
205	0.907	-0.25	-0.27	-0.146
220	0.907	-0.255	-0.265	-0.146
235	0.907	-0.255	-0.265	-0.146
250	0.907	-0.26	-0.255	-0.146
265	0.907	-0.26	-0.246	-0.146
280	0.938	-0.264	-0.246	-0.146
295	0.938	-0.264	-0.237	-0.146
310	0.938	-0.264	-0.227	-0.146
325	0.969	-0.264	-0.222	-0.146
340	0.938	-0.264	-0.213	-0.146
355	0.969	-0.264	-0.203	-0.146
370	1.001	-0.264	-0.184	-0.146
385	1.001	-0.264	-0.184	-0.146
400	1.001	-0.264	-0.18	-0.146
415	1.032	-0.264	-0.17	-0.146
430	1.032	-0.26	-0.156	-0.146
445	1.032	-0.26	-0.132	-0.146
460	1.063	-0.26	-0.118	-0.146
475	1.063	-0.26	-0.109	-0.146
490	1.032	-0.26	-0.137	-0.146
505	1.001	-0.26	-0.166	-0.146
520	0.969	-0.264	-0.189	-0.146
535	0.969	-0.264	-0.203	-0.146
550	0.938	-0.269	-0.218	-0.146
565	0.938	-0.264	-0.227	-0.146
580	0.907	-0.269	-0.241	-0.146
595	0.907	-0.274	-0.26	-0.146
610	0.876	-0.274	-0.284	-0.146
625	0.876	-0.279	-0.293	-0.146
640	0.876	-0.283	-0.298	-0.146
655	0.907	-0.288	-0.274	-0.146
670	0.938	-0.293	-0.255	-0.146
685	0.938	-0.298	-0.241	-0.146
700	0.938	-0.298	-0.237	-0.146
715	0.969	-0.302	-0.237	-0.146
730	0.969	-0.307	-0.232	-0.146
745	0.938	-0.312	-0.237	-0.146
760	0.938	-0.316	-0.241	-0.146

LOWER PERMEABLE ZONE (IAS) APT DRAWDOWN PHASE

Elapsed Time (min)	Input 1 12' Lower perm. pumped	Input 2 6' Upper perm.	Input 3 12' Silty	Input 4 6' Avon Pk
775	-18.978	-0.056	-1.907	-0.108
790	-18.728	-0.061	-1.907	-0.108
805	-18.602	-0.061	-1.907	-0.108
820	-18.946	-0.066	-1.907	-0.108
835	-19.134	-0.066	-1.902	-0.098
850	-19.353	-0.066	-1.893	-0.094
865	-18.946	-0.066	-1.888	-0.089
880	-19.478	-0.071	-1.888	-0.089
895	-18.79	-0.071	-1.883	-0.089
910	-18.54	-0.071	-1.883	-0.089
925	-19.384	-0.071	-1.878	-0.084
940	-19.165	-0.071	-1.869	-0.075
955	-19.415	-0.071	-1.864	-0.075
970	-18.665	-0.071	-1.859	-0.07
985	-19.353	-0.075	-1.859	-0.075
1000	-19.259	-0.075	-1.855	-0.065
1015	-18.665	-0.08	-1.85	-0.065
1030	-18.946	-0.085	-1.85	-0.065
1045	-18.915	-0.085	-1.85	-0.065
1060	-18.853	-0.09	-1.845	-0.07
1075	-18.978	-0.09	-1.845	-0.075
1090	-18.853	-0.094	-1.85	-0.075
1105	-18.946	-0.099	-1.845	-0.075
1120	-18.29	-0.104	-1.859	-0.094
1135	-18.946	-0.113	-1.869	-0.103
1150	-19.071	-0.123	-1.878	-0.113
1165	-18.728	-0.123	-1.878	-0.117
1180	-18.446	-0.127	-1.883	-0.122
1195	-19.071	-0.132	-1.888	-0.127
1210	-18.853	-0.137	-1.897	-0.141

LOWER PERMEABLE ZONE (IAS) RECOVERY PHASE

Elapsed Time (min)	Input 1 12' Lower Perm pumped	Input 2 6' Upper perm.	Input 3 12' Silty	Input 4 6' Avon Pk
775	0.938	-0.326	-0.246	-0.146
790	0.938	-0.326	-0.251	-0.146
805	0.938	-0.335	-0.255	-0.146
820	0.938	-0.34	-0.265	-0.146
835	0.907	-0.345	-0.274	-0.146
850	0.907	-0.35	-0.279	-0.146
865	0.907	-0.354	-0.284	-0.146
880	0.907	-0.359	-0.293	-0.146
895	0.907	-0.359	-0.293	-0.146
910	0.876	-0.364	-0.298	-0.146
925	0.907	-0.364	-0.289	-0.146
940	0.907	-0.369	-0.284	-0.146
955	0.907	-0.369	-0.284	-0.146
970	0.907	-0.373	-0.279	-0.146
985	0.907	-0.373	-0.274	-0.146
1000	0.938	-0.378	-0.274	-0.146
1015	0.907	-0.378	-0.274	-0.146
1030	0.938	-0.378	-0.265	-0.146
1045	0.938	-0.378	-0.265	-0.146
1060	0.938	-0.383	-0.26	-0.146
1075	0.938	-0.383	-0.255	-0.146
1090	0.938	-0.378	-0.246	-0.146
1105	0.969	-0.378	-0.237	-0.146
1120	0.969	-0.378	-0.232	-0.146
1135	0.969	-0.378	-0.218	-0.146
1150	0.969	-0.378	-0.218	-0.146
1165	0.969	-0.378	-0.208	-0.146
1180	1.001	-0.373	-0.203	-0.146
1195	1.001	-0.373	-0.199	-0.146
1210	1.001	-0.373	-0.194	-0.146
1225	1.001	-0.373	-0.189	-0.146
1240	1.001	-0.373	-0.189	-0.146
1255	1.032	-0.373	-0.18	-0.146
1270	1.001	-0.369	-0.175	-0.146
1285	1.032	-0.373	-0.175	-0.146
1300	1.032	-0.373	-0.175	-0.146
1315	1.032	-0.373	-0.175	-0.146
1330	1.001	-0.373	-0.175	-0.146
1345	1.001	-0.378	-0.184	-0.146
1360	1.001	-0.378	-0.189	-0.146
1375	1.001	-0.383	-0.194	-0.146
1390	1.001	-0.388	-0.199	-0.146
1405	1.001	-0.392	-0.213	-0.146
1420	0.969	-0.392	-0.218	-0.146
1435	0.969	-0.402	-0.232	-0.146
1450	0.938	-0.407	-0.241	-0.146
1465	0.938	-0.407	-0.251	-0.146
1480	0.938	-0.411	-0.255	-0.146
1495	0.938	-0.411	-0.255	-0.146
1510	0.938	-0.416	-0.255	-0.146
1525	0.907	-0.421	-0.27	-0.146
1540	0.876	-0.425	-0.284	-0.146
1555	0.876	-0.425	-0.293	-0.146
1570	0.844	-0.43	-0.303	-0.146
1585	0.844	-0.43	-0.308	-0.146
1600	0.844	-0.44	-0.317	-0.146
1615	0.844	-0.44	-0.322	-0.146
1630	0.782	-0.444	-0.374	-0.146

LOWER PERMEABLE ZONE (IAS) APT DRAWDOWN PHASE

Elapsed Time (min)	Input 1 12" Lower perm. pumped	Input 2 6" Upper perm	Input 3 12" Stat	Input 4 6" Avon Pk

LOWER PERMEABLE ZONE (IAS) RECOVERY PHASE

Elapsed Time (min)	Input 1 12" Lower Perm pumped	Input 2 6" Upper perm	Input 3 12" Stat	Input 4 6" Avon Pk
1645	0.719	-0.454	-0.431	-0.146
1660	0.688	-0.459	-0.459	-0.146
1675	0.657	-0.454	-0.487	-0.146
1690	0.625	-0.459	-0.511	-0.146
1705	0.594	-0.463	-0.53	-0.146
1720	0.625	-0.459	-0.53	-0.146
1735	0.594	-0.454	-0.535	-0.146
1750	0.594	-0.449	-0.53	-0.146
1765	0.594	-0.444	-0.53	-0.146
1780	0.594	-0.444	-0.53	-0.146
1795	0.625	-0.444	-0.521	-0.146
1810	0.625	-0.44	-0.521	-0.146
1825	0.594	-0.44	-0.525	-0.146
1840	0.625	-0.435	-0.521	-0.146
1855	0.625	-0.435	-0.506	-0.146
1870	0.657	-0.435	-0.497	-0.146
1885	0.657	-0.43	-0.478	-0.146
1900	0.688	-0.425	-0.468	-0.146
1915	0.688	-0.425	-0.459	-0.146
1930	0.688	-0.425	-0.454	-0.146
1945	0.688	-0.421	-0.445	-0.146
1960	0.719	-0.421	-0.44	-0.146
1975	0.688	-0.425	-0.44	-0.146
1990	0.688	-0.421	-0.44	-0.146
2005	0.719	-0.421	-0.435	-0.146
2020	0.719	-0.421	-0.431	-0.146
2035	0.751	-0.425	-0.416	-0.146
2050	0.751	-0.425	-0.421	-0.146
2065	0.751	-0.425	-0.421	-0.146
2080	0.782	-0.425	-0.388	-0.146
2095	0.813	-0.43	-0.355	-0.146
2110	0.844	-0.435	-0.331	-0.146
2125	0.844	-0.435	-0.317	-0.146
2140	0.876	-0.435	-0.308	-0.146
2155	0.876	-0.44	-0.303	-0.146
2170	0.876	-0.444	-0.308	-0.146
2185	0.876	-0.449	-0.308	-0.146
2200	0.876	-0.454	-0.312	-0.146
2215	0.876	-0.459	-0.312	-0.146
2230	0.876	-0.459	-0.322	-0.146
2245	0.844	-0.468	-0.326	-0.146
2260	0.844	-0.473	-0.331	-0.146
2275	0.844	-0.478	-0.331	-0.146
2290	0.844	-0.482	-0.331	-0.146
2305	0.844	-0.492	-0.336	-0.146
2320	0.844	-0.492	-0.336	-0.146
2335	0.844	-0.497	-0.341	-0.146
2350	0.844	-0.501	-0.341	-0.146
2365	0.844	-0.501	-0.341	-0.146
2380	0.876	-0.506	-0.336	-0.146
2395	0.876	-0.511	-0.336	-0.146
2410	0.844	-0.515	-0.336	-0.146
2425	0.876	-0.515	-0.331	-0.146
2440	0.876	-0.52	-0.326	-0.146
2455	0.876	-0.52	-0.326	-0.146
2470	0.876	-0.525	-0.322	-0.146
2485	0.876	-0.525	-0.317	-0.146
2500	0.907	-0.525	-0.308	-0.146

LOWER PERMEABLE ZONE (IAS) APT DRAWDOWN PHASE

Elapsed Time (min)	Input 1 12" Lower perm. pumped	Input 2 6" Upper perm.	Input 3 12" Saw	Input 4 6" Avon Pk

LOWER PERMEABLE ZONE (IAS) RECOVERY PHASE

Elapsed Time (min)	Input 1 12" Lower Perm. pumped	Input 2 6" Upper perm	Input 3 12" Saw	Input 4 6" Avon Pk
2515	0.907	-0.525	-0.298	-0.146
2530	0.938	-0.53	-0.289	-0.146
2545	0.938	-0.53	-0.279	-0.146
2560	0.938	-0.53	-0.265	-0.146
2575	0.938	-0.53	-0.255	-0.146
2590	0.969	-0.53	-0.246	-0.146
2605	0.969	-0.53	-0.237	-0.146
2620	0.969	-0.534	-0.227	-0.146
2635	1.001	-0.534	-0.218	-0.146
2650	1.001	-0.539	-0.213	-0.146
2665	1.001	-0.539	-0.208	-0.146
2680	1.001	-0.539	-0.199	-0.146
2695	1.032	-0.544	-0.194	-0.146
2710	1.032	-0.549	-0.194	-0.146
2725	1.032	-0.549	-0.189	-0.146
2740	1.032	-0.553	-0.184	-0.146
2755	1.032	-0.553	-0.18	-0.146
2770	1.032	-0.563	-0.18	-0.146
2785	1.032	-0.563	-0.18	-0.146
2800	1.032	-0.568	-0.184	-0.146
2815	1.032	-0.572	-0.189	-0.146
2830	1.032	-0.577	-0.194	-0.146
2845	1.001	-0.587	-0.203	-0.146
2860	1.001	-0.591	-0.208	-0.146
2875	1.001	-0.596	-0.218	-0.146
2890	0.969	-0.601	-0.222	-0.146
2905	0.969	-0.605	-0.232	-0.146
2920	0.969	-0.615	-0.237	-0.146
2935	0.969	-0.615	-0.241	-0.146
2950	0.969	-0.62	-0.246	-0.146
2965	0.938	-0.629	-0.251	-0.146
2980	0.938	-0.634	-0.255	-0.146
2995	0.938	-0.634	-0.26	-0.146
3010	0.938	-0.643	-0.26	-0.146
3025	0.938	-0.643	-0.265	-0.146
3040	0.907	-0.648	-0.27	-0.146
3055	0.907	-0.653	-0.27	-0.146
3070	0.907	-0.658	-0.274	-0.146
3085	0.907	-0.658	-0.274	-0.146
3100	0.907	-0.658	-0.27	-0.146
3115	0.907	-0.658	-0.265	-0.146
3130	0.907	-0.658	-0.265	-0.146
3145	0.907	-0.662	-0.265	-0.146
3160	0.907	-0.667	-0.26	-0.146
3175	0.938	-0.662	-0.251	-0.146
3190	0.938	-0.662	-0.241	-0.146
3205	0.969	-0.658	-0.232	-0.146
3220	0.969	-0.662	-0.222	-0.146
3235	0.969	-0.662	-0.222	-0.146
3250	0.969	-0.662	-0.218	-0.146
3265	0.969	-0.662	-0.208	-0.146
3280	0.969	-0.662	-0.203	-0.146
3295	0.969	-0.662	-0.199	-0.146
3310	1.001	-0.662	-0.184	-0.146
3325	0.969	-0.662	-0.18	-0.146
3340	1.001	-0.653	-0.161	-0.146
3355	1.032	-0.653	-0.151	-0.146
3370	1.032	-0.648	-0.147	-0.146

LOWER PERMEABLE ZONE (IAS) APT DRAWDOWN PHASE

Elapsed Time (min)	Input 1 12" Lower perm pumped	Input 2 6" Upper perm	Input 3 12" Sure	Input 4 6" Avon Pk

LOWER PERMEABLE ZONE (IAS) RECOVERY PHASE

Elapsed Time (min)	Input 1 12" Lower Perm pumped	Input 2 6" Upper perm	Input 3 12" Sure	Input 4 6" Avon Pk
3385	1.032	-0.648	-0.132	-0.146
3400	1.063	-0.643	-0.118	-0.146
3415	1.063	-0.643	-0.113	-0.146
3430	1.063	-0.643	-0.104	-0.146
3445	1.063	-0.643	-0.109	-0.146
3460	1.063	-0.648	-0.104	-0.146
3475	1.063	-0.648	-0.099	-0.146
3490	1.063	-0.648	-0.099	-0.146
3505	1.063	-0.648	-0.099	-0.146
3520	1.063	-0.653	-0.104	-0.146
3535	1.063	-0.653	-0.109	-0.146
3550	1.063	-0.658	-0.113	-0.146
3565	1.063	-0.658	-0.118	-0.146
3580	1.063	-0.662	-0.123	-0.146
3595	1.032	-0.662	-0.128	-0.146
3610	1.032	-0.667	-0.132	-0.146
3625	1.032	-0.672	-0.142	-0.146
3640	1.032	-0.677	-0.151	-0.146
3655	1.001	-0.681	-0.161	-0.146
3670	1.001	-0.681	-0.166	-0.146
3685	1.001	-0.686	-0.18	-0.146
3700	0.969	-0.691	-0.189	-0.146
3715	0.969	-0.699	-0.203	-0.146
3730	0.969	-0.699	-0.213	-0.146
3745	0.938	-0.704	-0.222	-0.146
3760	0.938	-0.709	-0.232	-0.146
3775	0.938	-0.709	-0.237	-0.146
3790	0.938	-0.713	-0.246	-0.146
3805	0.938	-0.713	-0.246	-0.146
3820	0.938	-0.713	-0.251	-0.146
3835	0.938	-0.713	-0.251	-0.146
3850	0.938	-0.713	-0.251	-0.146
3865	0.938	-0.713	-0.251	-0.146
3880	0.938	-0.718	-0.251	-0.146
3895	0.938	-0.718	-0.251	-0.146
3910	0.938	-0.713	-0.246	-0.146
3925	0.938	-0.718	-0.241	-0.146
3940	0.938	-0.713	-0.237	-0.146
3955	0.969	-0.713	-0.227	-0.146
3970	0.969	-0.709	-0.222	-0.146
3985	0.969	-0.709	-0.213	-0.146
4000	1.001	-0.709	-0.203	-0.146
4015	1.001	-0.709	-0.199	-0.146
4030	1.001	-0.704	-0.184	-0.146
4045	1.032	-0.704	-0.175	-0.146
4060	1.032	-0.699	-0.166	-0.146
4075	1.032	-0.699	-0.156	-0.146
4090	1.063	-0.699	-0.147	-0.146
4105	1.063	-0.695	-0.137	-0.146
4120	1.063	-0.695	-0.128	-0.146
4135	1.063	-0.695	-0.123	-0.146
4150	1.063	-0.695	-0.118	-0.146
4165	1.095	-0.695	-0.109	-0.146
4180	1.095	-0.695	-0.104	-0.146
4195	1.095	-0.691	-0.099	-0.146
4210	1.095	-0.695	-0.104	-0.146
4225	1.095	-0.695	-0.104	-0.146
4240	1.095	-0.699	-0.109	-0.146

LOWER PERMEABLE ZONE (IAS) APT DRAWDOWN PHASE

Elapsed Time (min)	Input 1 12" Lower perm pumped	Input 2 6" Upper perm	Input 3 12" Slow	Input 4 6" Avon Pk

LOWER PERMEABLE ZONE (IAS) RECOVERY PHASE

Elapsed Time (min)	Input 1 12" Lower Perm pumped	Input 2 6" Upper perm	Input 3 12" Slow	Input 4 6" Avon Pk
4255	1.095	-0.704	-0.109	-0.146
4270	1.095	-0.704	-0.113	-0.146
4285	1.095	-0.709	-0.123	-0.146
4300	1.095	-0.709	-0.128	-0.146
4315	1.063	-0.713	-0.137	-0.146
4330	1.063	-0.713	-0.137	-0.146
4345	1.063	-0.718	-0.142	-0.146
4360	1.063	-0.718	-0.142	-0.146
4375	1.063	-0.718	-0.142	-0.146
4390	1.063	-0.723	-0.142	-0.146
4405	1.032	-0.723	-0.142	-0.146
4420	1.032	-0.723	-0.147	-0.146
4435	1.032	-0.728	-0.151	-0.146
4450	1.032	-0.732	-0.161	-0.146
4465	1.032	-0.732	-0.166	-0.146
4480	1.001	-0.737	-0.18	-0.146
4495	1.001	-0.742	-0.175	-0.146
4510	1.001	-0.742	-0.184	-0.146
4525	1.001	-0.747	-0.194	-0.146
4540	0.969	-0.747	-0.194	-0.146
4555	0.969	-0.747	-0.194	-0.146
4570	0.969	-0.747	-0.194	-0.146
4585	0.969	-0.751	-0.199	-0.146
4600	0.969	-0.751	-0.189	-0.146
4615	0.969	-0.747	-0.184	-0.146
4630	1.001	-0.742	-0.175	-0.146
4645	1.001	-0.742	-0.166	-0.146
4660	1.001	-0.737	-0.161	-0.146
4675	1.032	-0.742	-0.156	-0.146
4690	1.001	-0.742	-0.151	-0.146
4705	1.063	-0.737	-0.132	-0.146
4720	1.032	-0.737	-0.132	-0.146
4735	1.063	-0.732	-0.118	-0.146
4750	1.032	-0.732	-0.113	-0.146
4765	1.063	-0.728	-0.099	-0.146
4780	1.063	-0.728	-0.08	-0.146
4795	1.095	-0.723	-0.066	-0.146
4810	1.095	-0.718	-0.057	-0.146
4825	1.126	-0.713	-0.038	-0.146
4840	1.126	-0.713	-0.024	-0.146
4855	1.126	-0.709	-0.015	-0.146
4870	1.157	-0.709	-0.006	-0.146
4885	1.157	-0.709	0.004	-0.146
4900	1.188	-0.709	0.013	-0.146
4915	1.157	-0.709	0.018	-0.146
4930	1.188	-0.709	0.023	-0.146
4945	1.188	-0.709	0.028	-0.146
4960	1.188	-0.709	0.028	-0.146
4975	1.188	-0.709	0.028	-0.146
4990	1.188	-0.713	0.023	-0.146
5005	1.188	-0.709	0.028	-0.146
5020	1.188	-0.709	0.023	-0.146
5035	1.188	-0.713	0.018	-0.146
5050	1.188	-0.713	0.013	-0.146
5065	1.188	-0.713	0.009	-0.146
5080	1.157	-0.713	0.004	-0.146
5095	1.157	-0.713	-0.001	-0.146
5110	1.157	-0.713	-0.006	-0.146

LOWER PERMEABLE ZONE (IAS) APT DRAWDOWN PHASE

Elapsed Time (min)	Input 1 12" Lower perm pumped	Input 2 6" Upper perm	Input 3 12" Sum	Input 4 6" Avon Pk

LOWER PERMEABLE ZONE (IAS) RECOVERY PHASE

Elapsed Time (min)	Input 1 12" Lower Perm pumped	Input 2 6" Upper perm	Input 3 12" Sum	Input 4 6" Avon Pk
5125	1.157	-0.718	-0.01	-0.146
5140	1.157	-0.723	-0.024	-0.146
5155	1.157	-0.723	-0.033	-0.146
5170	1.126	-0.728	-0.042	-0.146
5185	1.126	-0.728	-0.052	-0.146
5200	1.126	-0.732	-0.066	-0.146
5215	1.095	-0.737	-0.076	-0.146
5230	1.095	-0.742	-0.095	-0.146
5245	1.063	-0.742	-0.099	-0.146
5260	1.063	-0.742	-0.109	-0.146
5275	1.063	-0.742	-0.113	-0.146
5290	1.063	-0.742	-0.113	-0.146
5305	1.063	-0.742	-0.113	-0.146
5320	1.063	-0.737	-0.113	-0.146
5335	1.063	-0.737	-0.113	-0.146
5350	1.063	-0.732	-0.113	-0.146
5365	1.063	-0.737	-0.113	-0.146
5380	1.063	-0.732	-0.109	-0.146
5395	1.063	-0.728	-0.104	-0.146
5410	1.095	-0.728	-0.095	-0.146
5425	1.095	-0.723	-0.09	-0.146
5440	1.095	-0.718	-0.08	-0.146
5455	1.095	-0.718	-0.076	-0.146
5470	1.126	-0.713	-0.066	-0.146
5485	1.126	-0.713	-0.061	-0.146
5500	1.157	-0.704	-0.042	-0.146
5515	1.157	-0.704	-0.033	-0.146
5530	1.157	-0.699	-0.028	-0.146
5545	1.157	-0.699	-0.015	-0.146
5560	1.188	-0.691	-0.001	-0.146
5575	1.188	-0.686	0.009	-0.146
5590	1.22	-0.686	0.018	-0.146
5605	1.22	-0.681	0.028	-0.146
5620	1.22	-0.677	0.037	-0.146
5635	1.22	-0.677	0.042	-0.146
5650	1.22	-0.681	0.042	-0.146
5665	1.22	-0.681	0.037	-0.146
5680	1.22	-0.681	0.037	-0.146
5695	1.251	-0.677	0.047	-0.146
5710	1.251	-0.681	0.037	-0.146
5725	1.22	-0.681	0.037	-0.146
5740	1.22	-0.681	0.032	-0.146
5755	1.22	-0.686	0.028	-0.146
5770	1.188	-0.686	0.009	-0.146
5785	1.157	-0.686	-0.038	-0.146
5800	1.095	-0.686	-0.076	-0.146
5815	1.063	-0.686	-0.099	-0.146
5830	1.032	-0.686	-0.132	-0.146
5845	1.032	-0.686	-0.151	-0.146
5860	1.001	-0.686	-0.175	-0.146
5875	0.969	-0.691	-0.189	-0.146
5890	0.938	-0.695	-0.213	-0.146
5905	0.938	-0.691	-0.232	-0.146
5920	0.938	-0.691	-0.251	-0.146
5935	0.876	-0.695	-0.265	-0.146
5950	0.907	-0.695	-0.279	-0.146
5965	0.844	-0.695	-0.293	-0.146
5980	0.844	-0.695	-0.312	-0.146

LOWER PERMEABLE ZONE (IAS) APT DRAWDOWN PHASE

Elapsed Time (min)	Input 1 12" Lower perm pumped	Input 2 8" Upper perm	Input 3 12" Slot	Input 4 6" Aviori Px

LOWER PERMEABLE ZONE (IAS) RECOVERY PHASE

Elapsed Time (min)	Input 1 12" Lower Perm pumped	Input 2 8" Upper perm	Input 3 12" Slot	Input 4 6" Aviori Px
5995	0.844	-0.695	-0.317	-0.146

APPENDIX D

Data Logger Water Level Measurements for Suwannee/Upper Floridan aquifer APT.

SE2000 *suwd-d.wpd*

Environmental Logger

04/09 06:47

Unit# 577 Test 2

Setups:	INPUT 1	INPUT 2	INPUT 3	INPUT 4	INPUT 5
Type	Level (F)	Level (F)	Level (F)	Level (F)	Level (F)
Mode	Surface	Surface	Surface	Surface	Surface
I.D.	100	15	15	15	15
Reference	0.000	0.000	0.000	0.000	0.000
PSI at Ref.	37.226	6.352	2.580	1.669	11.179
SG	1.000	1.000	1.000	1.000	1.000
Linearity	0.144	0.073	0.081	0.147	0.110
Scale factor	99.286	14.989	15.012	14.930	15.035
Offset	-0.222	0.034	-0.016	0.116	-0.026
Delay mSEC	50.000	50.000	50.000	50.000	50.000

Step 0 04/09 06:31:30

Suwannee/UFA APT Drawdown Phase

Elapsed Time (Hours)	Input 1 (Feet of Water)	Input 2 (Feet of Water)	Input 3 (Feet of Water)	Input 4 (Feet of Water)	Input 5 (Feet of Water)
0	-0.125	0	0	0.004	-0.009
0.0083	0.406	0	0.004	0.014	-0.009
0.0166	0.125	0	0.009	0.004	0
0.025	-1.188	0	0	0.009	-0.009
0.0333	-3.472	0	0.004	0.009	0
0.0416	1.251	0	0.004	0.009	0.009
0.05	-0.782	0.004	0.009	0.009	0
0.0583	-1.22	0	0.004	0.009	0
0.0666	-0.312	0	0	0.004	0
0.075	-0.938	0	0.004	0.009	-0.009
0.0833	-1.313	0	0.009	0.009	0
0.0916	-1.376	0	0	0.009	0.004
0.1	-2.002	0	0	0.009	-0.004
0.1083	-1.22	0	0.004	0.009	0
0.1166	-1.626	0	0.004	0.004	-0.004
0.125	-29.246	0	0	0.009	-0.004
0.1333	-15.39	0	0	0.009	0.004
0.1416	-12.7	0	0.004	0.009	-0.004
0.15	-14.953	0	0.004	0.009	-0.004
0.1583	-13.326	0	0	0.009	-0.009
0.1666	-13.889	0	0.004	0.009	-0.004
0.175	-13.701	0	-0.004	0.009	-0.009
0.1833	-14.014	0	0	0.009	-0.014
0.1916	-14.702	0	0	0.009	-0.014
0.2	-14.859	0	-0.004	0.009	-0.023
0.2083	-15.422	0	0	0.009	-0.028
0.2166	-15.953	0	-0.004	0.009	-0.028
0.225	-16.423	0	-0.009	0.009	-0.028
0.2333	-16.923	0	0	0.009	-0.033
0.2416	-17.142	0	-0.009	0.009	-0.043
0.25	-17.893	0	-0.009	0.009	-0.047
0.2583	-18.299	0	-0.004	0.009	-0.052
0.2666	-18.831	0	-0.009	0.009	-0.052
0.275	-19.019	0	-0.014	0.004	-0.067
0.2833	-19.613	0	-0.009	0.009	-0.067
0.2916	-19.957	0	-0.014	0.009	-0.081
0.3	-20.52	0	-0.014	0.009	-0.086
0.3083	-20.833	0	-0.014	0.009	-0.095
0.3166	-21.052	0	-0.018	0.009	-0.1
0.325	-21.49	0	-0.018	0.009	-0.105
0.3333	-21.771	0	-0.014	0.009	-0.114
0.35	-22.365	0	-0.014	0.009	-0.134
0.3666	-23.116	0	-0.028	0.009	-0.148
0.3833	-23.679	0	-0.023	0.009	-0.167
0.4	-24.148	0	-0.023	0.009	-0.186
0.4166	-24.836	0	-0.033	0.009	-0.201

SE2000

Environmental Logger

05/05 08:34

Unit# 577 Test 2

Setups:	INPUT 1	INPUT 2	INPUT 3	INPUT 4	INPUT 5
Type	Level (F)	Level (F)	Level (F)	Level (F)	Level (F)
Mode	Surface	Surface	Surface	Surface	Surface
I.D.	100	15	15	15	15
Reference	0.000	0.000	0.000	0.000	0.000
PSI at Ref.	37.226	6.352	2.580	1.669	11.179
SG	1.000	1.000	1.000	1.000	1.000
Linearity	0.144	0.073	0.081	0.147	0.110
Scale factor	99.286	14.989	15.012	14.930	15.035
Offset	-0.222	0.034	-0.016	0.116	-0.026
Delay mSEC	50.000	50.000	50.000	50.000	50.000

Step 1 04/10 06:37:32

Suwannee/UFA APT Recovery Phase

Elapsed Time (Hours)	Input 1 (Feet of Water)	Input 2 (Feet of Water)	Input 3 (Feet of Water)	Input 4 (Feet of Water)	Input 5 (Feet of Water)
0	-60.326	0.071	-0.534	-0.089	-8.514
0.0083	-60.17	0.071	-0.53	-0.094	-8.514
0.0166	-60.264	0.071	-0.544	-0.094	-8.514
0.025	-60.545	0.071	-0.534	-0.094	-8.514
0.0333	-60.326	0.071	-0.534	-0.094	-8.514
0.0416	-60.451	0.071	-0.534	-0.094	-8.514
0.05	-59.982	0.071	-0.534	-0.094	-8.514
0.0583	-60.357	0.071	-0.544	-0.094	-8.514
0.0666	-57.669	0.071	-0.534	-0.094	-8.514
0.075	-56.637	0.071	-0.534	-0.094	-8.514
0.0833	-56.606	0.071	-0.539	-0.094	-8.514
0.0916	-54.855	0.071	-0.534	-0.094	-8.514
0.1	-52.948	0.071	-0.53	-0.094	-8.514
0.1083	-51.572	0.071	-0.534	-0.094	-8.514
0.1166	-50.134	0.071	-0.534	-0.094	-8.514
0.125	-49.134	0.071	-0.534	-0.094	-8.514
0.1333	-48.227	0.071	-0.534	-0.094	-8.514
0.1416	-47.258	0.071	-0.534	-0.094	-8.514
0.15	-46.757	0.071	-0.534	-0.094	-8.514
0.1583	-46.382	0.071	-0.534	-0.094	-8.514
0.1666	-45.882	0.071	-0.534	-0.094	-8.514
0.175	-45.6	0.071	-0.534	-0.094	-8.514
0.1833	-45.632	0.071	-0.534	-0.094	-8.514
0.1916	-45.35	0.071	-0.534	-0.094	-8.514
0.2	-45.131	0.071	-0.534	-0.094	-8.514
0.2083	-45.038	0.071	-0.534	-0.094	-8.514
0.2166	-44.788	0.066	-0.534	-0.094	-8.514
0.225	-44.631	0.066	-0.534	-0.094	-8.514
0.2333	-44.475	0.066	-0.534	-0.094	-8.514
0.2416	-44.193	0.071	-0.534	-0.094	-8.509
0.25	-43.912	0.066	-0.534	-0.094	-8.509
0.2583	-43.787	0.071	-0.534	-0.094	-8.509
0.2666	-43.38	0.066	-0.534	-0.094	-8.504
0.275	-43.224	0.071	-0.534	-0.094	-8.504
0.2833	-42.974	0.066	-0.534	-0.094	-8.499
0.2916	-42.599	0.071	-0.53	-0.094	-8.49
0.3	-42.474	0.066	-0.534	-0.094	-8.485
0.3083	-42.224	0.066	-0.53	-0.094	-8.48
0.3166	-41.911	0.066	-0.534	-0.094	-8.476
0.325	-41.755	0.066	-0.53	-0.094	-8.471
0.3333	-41.504	0.066	-0.53	-0.094	-8.471
0.35	-41.16	0.066	-0.53	-0.094	-8.461
0.3666	-40.785	0.066	-0.53	-0.094	-8.456
0.3833	-40.441	0.066	-0.53	-0.094	-8.447
0.4	-40.222	0.066	-0.525	-0.094	-8.437
0.4166	-39.941	0.066	-0.53	-0.094	-8.433

Suwannee/UFA APT Drawdown Phase

Elapsed Time (min)	Input 1 14" Sand pressure	Input 2 6" Sand pressure (psig)	Input 3 12" Lower piezo (psig)	Input 4 6" 2" PVC	Input 5 2" Sand (psi)
0.4333	-25.43	0	-0.028	0.009	-0.22
0.45	-25.587	0	-0.028	0.009	-0.229
0.4666	-26.087	0	-0.037	0.009	-0.248
0.4833	-26.4	0	-0.033	0.009	-0.263
0.5	-26.869	0	-0.033	0.009	-0.282
0.5166	-27.182	0	-0.042	0.009	-0.296
0.5333	-27.526	0	-0.042	0.009	-0.311
0.55	-27.964	0	-0.037	0.009	-0.32
0.5666	-28.12	0	-0.042	0.009	-0.335
0.5833	-28.433	0.004	-0.047	0.009	-0.344
0.6	-28.839	0.004	-0.047	0.009	-0.354
0.6166	-29.308	0	-0.042	0.009	-0.363
0.6333	-29.559	0.004	-0.047	0.009	-0.378
0.65	-30.059	0	-0.052	0.009	-0.387
0.6666	-30.466	0.004	-0.052	0.009	-0.397
0.6833	-30.841	0	-0.047	0.009	-0.411
0.7	-30.966	0.004	-0.056	0.009	-0.421
0.7166	-31.56	0.004	-0.056	0.009	-0.43
0.7333	-31.654	0.004	-0.052	0.009	-0.44
0.75	-32.029	0.004	-0.052	0.009	-0.454
0.7666	-32.154	0.004	-0.056	0.009	-0.469
0.7833	-32.623	0.004	-0.066	0.009	-0.473
0.8	-32.811	0.004	-0.061	0.009	-0.488
0.8166	-33.124	0.004	-0.056	0.009	-0.502
0.8333	-33.437	0	-0.056	0.009	-0.512
0.85	-33.593	0.004	-0.061	0.009	-0.526
0.8666	-33.906	0.004	-0.061	0.009	-0.536
0.8833	-34.406	0.004	-0.066	0.009	-0.545
0.9	-34.437	0.004	-0.066	0.009	-0.564
0.9166	-34.719	0.004	-0.071	0.009	-0.574
0.9333	-35.094	0.004	-0.071	0.009	-0.583
0.95	-35.876	0.004	-0.071	0.009	-0.598
0.9666	-36.314	0.004	-0.071	0.009	-0.607
0.9833	-36.658	0.004	-0.075	0.009	-0.622
1	-36.908	0.004	-0.071	0.009	-0.631
1.2	-40.66	0.004	-0.085	0.009	-0.78
1.4	-43.005	0.004	-0.094	0.009	-0.933
1.6	-44.6	0.004	-0.104	0.009	-1.076
1.8	-46.257	0.004	-0.118	0.009	-1.224
2	-46.538	0.004	-0.123	0.009	-1.368
2.2	-47.695	0.004	-0.132	0.009	-1.512
2.4	-48.133	0.004	-0.137	0.009	-1.65
2.6	-49.259	0.009	-0.142	0.009	-1.784
2.8	-49.978	0.004	-0.146	0.009	-1.913
3	-50.447	0.009	-0.151	0.009	-2.042
3.2	-50.447	0.009	-0.156	0.009	-2.162
3.4	-51.135	0.009	-0.16	0.009	-2.282
3.6	-51.541	0.009	-0.17	0.009	-2.391
3.8	-51.604	0.009	-0.17	0.009	-2.506
4	-52.01	0.009	-0.175	0.004	-2.611
4.2	-52.26	0.009	-0.175	0.009	-2.712
4.4	-52.698	0.009	-0.179	0.004	-2.812
4.6	-53.011	0.009	-0.184	0.009	-2.908
4.8	-52.792	0.009	-0.184	0.009	-3.003
5	-53.542	0.009	-0.189	0.004	-3.094
5.2	-53.386	0.009	-0.194	0.004	-3.18
5.4	-53.73	0.009	-0.194	0.004	-3.266
5.6	-53.917	0.009	-0.194	0.004	-3.348
5.8	-54.292	0.009	-0.198	0.004	-3.429
6	-54.105	0.009	-0.198	0.009	-3.505
6.2	-54.292	0.009	-0.203	0.004	-3.582
6.4	-54.605	0.009	-0.208	0.004	-3.658

Suwannee/UFA APT Recovery Phase

Elapsed Time (min)	Input 1 14" Sand pressure	Input 2 6" Sand pressure (psig)	Input 3 12" Lower piezo (psig)	Input 4 6" 2" PVC	Input 5 2" Sand (psi)
0.4333	-39.566	0.066	-0.525	-0.094	-8.423
0.45	-39.284	0.066	-0.525	-0.094	-8.418
0.4666	-39.097	0.066	-0.525	-0.094	-8.409
0.4833	-38.878	0.066	-0.525	-0.094	-8.399
0.5	-38.377	0.066	-0.525	-0.094	-8.394
0.5166	-38.127	0.071	-0.525	-0.094	-8.385
0.5333	-38.065	0.066	-0.525	-0.094	-8.38
0.55	-37.783	0.066	-0.52	-0.094	-8.371
0.5666	-37.283	0.066	-0.525	-0.094	-8.366
0.5833	-37.064	0.066	-0.534	-0.094	-8.361
0.6	-36.908	0.066	-0.52	-0.094	-8.352
0.6166	-36.532	0.066	-0.525	-0.089	-8.347
0.6333	-36.282	0.066	-0.52	-0.094	-8.337
0.65	-36.032	0.066	-0.52	-0.094	-8.332
0.6666	-35.782	0.066	-0.52	-0.094	-8.328
0.6833	-35.532	0.066	-0.52	-0.094	-8.318
0.7	-35.313	0.066	-0.52	-0.094	-8.313
0.7166	-34.969	0.066	-0.52	-0.094	-8.309
0.7333	-34.75	0.066	-0.52	-0.094	-8.299
0.75	-34.469	0.066	-0.515	-0.094	-8.294
0.7666	-34.25	0.066	-0.511	-0.089	-8.285
0.7833	-33.999	0.066	-0.515	-0.094	-8.28
0.8	-33.749	0.066	-0.515	-0.094	-8.27
0.8166	-33.53	0.066	-0.511	-0.094	-8.266
0.8333	-33.28	0.066	-0.511	-0.094	-8.256
0.85	-33.061	0.066	-0.511	-0.094	-8.251
0.8666	-32.842	0.066	-0.511	-0.094	-8.242
0.8833	-32.623	0.066	-0.511	-0.094	-8.232
0.9	-32.373	0.066	-0.506	-0.094	-8.228
0.9166	-32.154	0.066	-0.506	-0.094	-8.218
0.9333	-31.935	0.066	-0.506	-0.089	-8.213
0.95	-31.717	0.066	-0.506	-0.094	-8.204
0.9666	-31.498	0.066	-0.506	-0.094	-8.194
0.9833	-31.279	0.066	-0.506	-0.094	-8.189
1	-31.091	0.066	-0.501	-0.094	-8.18
1.2	-28.652	0.066	-0.497	-0.094	-8.084
1.4	-26.65	0.066	-0.487	-0.094	-7.97
1.6	-24.711	0.066	-0.478	-0.094	-7.86
1.8	-23.022	0.066	-0.473	-0.089	-7.746
2	-21.458	0.066	-0.463	-0.089	-7.631
2.2	-20.082	0.066	-0.454	-0.094	-7.512
2.4	-18.769	0.066	-0.449	-0.089	-7.388
2.6	-17.611	0.066	-0.444	-0.089	-7.269
2.8	-16.516	0.066	-0.435	-0.089	-7.149
3	-15.516	0.061	-0.43	-0.089	-7.03
3.2	-14.577	0.066	-0.421	-0.089	-6.911
3.4	-13.733	0.061	-0.416	-0.089	-6.796
3.6	-12.951	0.061	-0.411	-0.089	-6.677
3.8	-11.95	0.061	-0.407	-0.089	-6.562
4	-11.136	0.061	-0.397	-0.089	-6.443
4.2	-10.448	0.061	-0.397	-0.089	-6.338
4.4	-9.823	0.061	-0.392	-0.089	-6.223
4.6	-9.259	0.061	-0.388	-0.089	-6.113
4.8	-8.759	0.061	-0.378	-0.089	-6.008
5	-8.258	0.061	-0.378	-0.089	-5.899
5.2	-7.727	0.061	-0.373	-0.089	-5.798
5.4	-7.289	0.061	-0.369	-0.089	-5.698
5.6	-6.913	0.061	-0.364	-0.089	-5.598
5.8	-6.538	0.061	-0.359	-0.089	-5.498
6	-6.225	0.061	-0.359	-0.089	-5.407
6.2	-5.912	0.061	-0.355	-0.089	-5.316
6.4	-5.631	0.061	-0.35	-0.089	-5.23

Suwannee/UFA APT Drawdown Phase

Elapsed Time (min)	Input 1 (2" Upper Sandstone)	Input 2 (2" Upper Suwannee (UFA))	Input 3 (12" Lower Suwannee (UFA))	Input 4 (6" Ocala FM)	Input 5 (2" Suwannee (OS))
6.6	-54.574	0.009	-0.208	0.004	-3.725
6.8	-54.793	0.009	-0.208	0.004	-3.797
7	-54.73	0.009	-0.213	0.004	-3.864
7.2	-55.074	0.009	-0.213	0.004	-3.926
7.4	-55.23	0.009	-0.213	0.004	-3.993
7.6	-54.918	0.009	-0.222	0.004	-4.05
7.8	-55.105	0.009	-0.217	0.004	-4.112
8	-55.074	0.009	-0.222	0.004	-4.174
8.2	-55.574	0.009	-0.222	0.004	-4.227
8.4	-55.262	0.009	-0.231	0	-4.284
8.6	-55.699	0.009	-0.227	0	-4.342
8.8	-55.574	0.009	-0.231	0	-4.389
9	-55.637	0.009	-0.227	0.004	-4.437
9.2	-55.699	0.009	-0.227	0.004	-4.49
9.4	-55.574	0.009	-0.227	0.004	-4.533
9.6	-55.605	0.014	-0.231	0.004	-4.585
9.8	-55.824	0.009	-0.236	0.004	-4.628
10	-56.012	0.009	-0.236	0.004	-4.671
12	-56.512	0.009	-0.25	-0.004	-5.058
14	-56.637	0.009	-0.265	-0.004	-5.364
16	-56.981	0.009	-0.274	-0.004	-5.612
18	-57.044	0.009	-0.274	0	-5.808
20	-57.106	0.009	-0.284	0.004	-5.961
22	-57.294	0.009	-0.298	-0.004	-6.104
24	-57.481	0.009	-0.302	-0.004	-6.238
26	-57.669	0.009	-0.307	-0.004	-6.352
28	-57.919	0.014	-0.307	0	-6.462
30	-58.044	0.009	-0.317	-0.004	-6.557
32	-57.669	0.009	-0.321	-0.009	-6.648
34	-57.794	0.009	-0.321	-0.009	-6.734
36	-58.075	0.009	-0.326	-0.009	-6.81
38	-57.7	0.009	-0.331	-0.009	-6.877
40	-57.731	0.009	-0.336	-0.009	-6.939
42	-57.825	0.009	-0.336	-0.009	-7.001
44	-58.075	0.009	-0.34	-0.009	-7.059
46	-57.669	0.009	-0.34	-0.004	-7.106
48	-57.638	0.009	-0.35	-0.014	-7.154
50	-58.044	0.009	-0.35	-0.014	-7.197
52	-57.856	0.009	-0.35	-0.014	-7.24
54	-57.606	0.009	-0.355	-0.014	-7.273
56	-57.856	0.009	-0.359	-0.014	-7.312
58	-57.95	0.004	-0.364	-0.018	-7.35
60	-57.919	0.004	-0.364	-0.018	-7.378
62	-57.575	0.004	-0.364	-0.018	-7.407
64	-57.763	0.004	-0.373	-0.023	-7.436
66	-57.825	0.004	-0.373	-0.018	-7.459
68	-57.763	0.009	-0.369	-0.023	-7.483
70	-57.825	0.009	-0.373	-0.018	-7.507
72	-57.763	0.009	-0.373	-0.018	-7.531
74	-57.45	0.009	-0.369	-0.018	-7.55
76	-57.7	0.009	-0.378	-0.018	-7.569
78	-57.888	0.009	-0.373	-0.018	-7.588
80	-57.606	0.009	-0.383	-0.018	-7.603
82	-57.763	0.009	-0.373	-0.018	-7.622
84	-57.638	0.009	-0.373	-0.014	-7.636
86	-57.95	0.009	-0.383	-0.018	-7.65
88	-57.669	0.009	-0.383	-0.018	-7.665
90	-57.575	0.009	-0.383	-0.023	-7.679
92	-57.45	0.009	-0.388	-0.023	-7.688
94	-57.638	0.009	-0.392	-0.023	-7.703
96	-57.95	0.009	-0.388	-0.023	-7.717
98	-57.95	0.004	-0.392	-0.023	-7.731

Suwannee/UFA APT Recovery Phase

Elapsed Time (min)	Input 1 (2" Upper Sandstone)	Input 2 (2" Upper Suwannee (UFA))	Input 3 (12" Lower Suwannee (UFA))	Input 4 (6" Ocala FM)	Input 5 (2" Suwannee (OS))
6.6	-5.349	0.061	-0.35	-0.089	-5.139
6.8	-5.099	0.056	-0.345	-0.089	-5.053
7	-4.911	0.061	-0.34	-0.089	-4.972
7.2	-4.723	0.061	-0.34	-0.089	-4.891
7.4	-4.411	0.061	-0.336	-0.089	-4.815
7.6	-4.192	0.056	-0.336	-0.089	-4.733
7.8	-4.004	0.056	-0.331	-0.089	-4.657
8	-3.816	0.056	-0.331	-0.089	-4.59
8.2	-3.66	0.056	-0.331	-0.089	-4.514
8.4	-3.503	0.056	-0.326	-0.089	-4.447
8.6	-3.347	0.056	-0.321	-0.089	-4.375
8.8	-3.159	0.056	-0.321	-0.089	-4.313
9	-3.003	0.056	-0.321	-0.089	-4.246
9.2	-2.878	0.056	-0.317	-0.089	-4.179
9.4	-2.753	0.056	-0.317	-0.089	-4.117
9.6	-2.627	0.056	-0.312	-0.094	-4.06
9.8	-2.44	0.056	-0.312	-0.089	-4.002
10	-2.471	0.056	-0.312	-0.094	-3.945
12	-1.626	0.056	-0.298	-0.089	-3.438
14	-1.126	0.056	-0.284	-0.089	-3.037
16	-0.844	0.056	-0.274	-0.089	-2.721
18	-0.656	0.056	-0.269	-0.094	-2.454
20	-0.5	0.056	-0.26	-0.094	-2.243
22	-0.406	0.056	-0.255	-0.094	-2.057
24	-0.344	0.056	-0.246	-0.089	-1.909
26	-0.281	0.052	-0.246	-0.098	-1.77
28	-0.25	0.052	-0.241	-0.098	-1.655
30	-0.187	0.052	-0.236	-0.098	-1.55
32	-0.156	0.052	-0.236	-0.098	-1.459
34	-0.156	0.052	-0.231	-0.098	-1.378
36	-0.125	0.052	-0.227	-0.098	-1.301
38	-0.093	0.052	-0.222	-0.098	-1.234
40	-0.062	0.052	-0.222	-0.098	-1.172
42	-0.062	0.056	-0.213	-0.094	-1.119
44	-0.062	0.052	-0.217	-0.098	-1.062
46	-0.031	0.052	-0.213	-0.098	-1.014
48	-0.031	0.052	-0.208	-0.098	-0.971
50	0	0.052	-0.203	-0.098	-0.928
52	0	0.052	-0.203	-0.098	-0.894
54	0	0.052	-0.203	-0.098	-0.856
56	0	0.052	-0.203	-0.098	-0.827
58	0.031	0.052	-0.198	-0.098	-0.794
60	0.031	0.052	-0.198	-0.098	-0.765
62	0.031	0.052	-0.194	-0.098	-0.736
64	0.031	0.052	-0.194	-0.098	-0.717
66	0.031	0.052	-0.194	-0.098	-0.693
68	0.031	0.052	-0.194	-0.098	-0.669
70	0.062	0.052	-0.194	-0.098	-0.655
72	0.031	0.052	-0.189	-0.103	-0.636
74	0.062	0.047	-0.189	-0.103	-0.617
76	0.062	0.047	-0.189	-0.103	-0.598
78	0.062	0.047	-0.189	-0.103	-0.583
80	0.062	0.047	-0.189	-0.103	-0.569
82	0.062	0.047	-0.184	-0.103	-0.555
84	0.062	0.047	-0.184	-0.103	-0.54
86	0.062	0.047	-0.184	-0.103	-0.526
88	0.062	0.047	-0.184	-0.103	-0.516
90	0.062	0.047	-0.179	-0.103	-0.502
92	0.062	0.047	-0.179	-0.103	-0.492
94	0.062	0.047	-0.179	-0.108	-0.478
96	0.062	0.047	-0.179	-0.103	-0.473
98	0.062	0.047	-0.179	-0.103	-0.464

Suwannee/UFA APT Drawdown Phase

Elapsed Time (min)	Input 1 102' Suw Aquifer	Input 2 75' Upper Perm (UFA)	Input 3 127' Lower Perm (UFA)	Input 4 5' Av Pz	Input 5 2' Suw OB
100	-57.45	0.009	-0.388	-0.023	-7.741
115	-57.575	0.009	-0.397	-0.028	-7.812
130	-57.512	0.009	-0.402	-0.028	-7.875
145	-57.825	0.009	-0.421	-0.032	-7.908
160	-57.419	0.004	-0.454	-0.047	-7.956
175	-57.669	0.004	-0.511	-0.047	-7.989
190	-57.325	0	-0.558	-0.056	-8.027
205	-57.325	-0.004	-0.591	-0.061	-8.056
220	-57.294	-0.004	-0.62	-0.07	-8.084
235	-57.387	-0.004	-0.643	-0.07	-8.089
250	-57.45	-0.004	-0.667	-0.075	-8.108
265	-57.231	-0.004	-0.676	-0.07	-8.108
280	-56.825	-0.009	-0.695	-0.084	-8.123
295	-56.418	-0.009	-0.71	-0.08	-8.118
310	-56.825	-0.009	-0.714	-0.084	-8.127
325	-56.887	-0.004	-0.681	-0.08	-8.118
340	-57.012	-0.004	-0.686	-0.075	-8.127
355	-56.731	-0.004	-0.705	-0.08	-8.156
370	-56.512	0	-0.714	-0.075	-8.118
385	-56.043	0	-0.728	-0.07	-8.094
400	-59.419	0	-0.728	-0.061	-8.323
415	-60.076	0.004	-0.728	-0.056	-8.456
430	-59.388	0.004	-0.738	-0.051	-8.476
445	-59.92	0.009	-0.71	-0.037	-8.504
460	-60.045	0.009	-0.705	-0.028	-8.523
475	-59.545	0.014	-0.691	-0.018	-8.528
490	-59.857	0.009	-0.657	-0.023	-8.538
505	-61.014	0.014	-0.605	-0.018	-8.58
520	-61.733	0.033	-0.572	-0.028	-8.633
535	-61.201	0.028	-0.568	-0.037	-8.652
550	-61.483	0.047	-0.544	-0.042	-8.662
565	-61.108	0.066	-0.525	-0.028	-8.657
580	-61.139	0.071	-0.511	-0.023	-8.647
595	-61.233	0.075	-0.501	-0.014	-8.609
610	-61.264	0.08	-0.482	-0.014	-8.59
625	-60.451	0.08	-0.478	-0.004	-8.571
640	-60.795	0.08	-0.473	-0.004	-8.561
655	-60.607	0.08	-0.463	0	-8.552
670	-61.076	0.08	-0.459	0	-8.542
685	-60.795	0.08	-0.463	-0.004	-8.528
700	-60.482	0.08	-0.463	0	-8.523
715	-60.826	0.08	-0.463	0	-8.504
730	-60.514	0.085	-0.449	0	-8.485
745	-60.764	0.08	-0.444	-0.004	-8.49
760	-60.607	0.08	-0.459	-0.009	-8.48
775	-60.951	0.08	-0.444	-0.009	-8.504
790	-60.639	0.08	-0.454	-0.018	-8.518
805	-60.264	0.075	-0.459	-0.028	-8.509
820	-60.138	0.075	-0.468	-0.037	-8.504
835	-60.232	0.071	-0.478	-0.047	-8.504
850	-60.482	0.071	-0.473	-0.056	-8.514
865	-60.576	0.066	-0.478	-0.065	-8.49
880	-60.857	0.061	-0.501	-0.08	-8.514
895	-60.514	0.061	-0.501	-0.094	-8.528
910	-60.67	0.056	-0.515	-0.103	-8.538
925	-60.451	0.061	-0.52	-0.108	-8.542
940	-60.545	0.061	-0.515	-0.113	-8.547
955	-60.545	0.061	-0.539	-0.122	-8.552
970	-60.639	0.056	-0.539	-0.127	-8.552
985	-60.545	0.061	-0.534	-0.131	-8.557
1000	-60.545	0.061	-0.549	-0.136	-8.561
1015	-60.732	0.056	-0.549	-0.145	-8.566

Suwannee/UFA APT Recovery Phase

Elapsed Time (min)	Input 1 102' Suw Aquifer	Input 2 75' Upper Perm (UFA)	Input 3 127' Lower Perm (UFA)	Input 4 5' Av Pz	Input 5 2' Suw OB
100	0.093	0.047	-0.179	-0.108	-0.454
115	0.093	0.047	-0.175	-0.103	-0.397
130	0.093	0.042	-0.17	-0.108	-0.358
145	0.093	0.042	-0.17	-0.108	-0.339
160	0.093	0.042	-0.165	-0.108	-0.311
175	0.093	0.037	-0.17	-0.113	-0.301
190	0.062	0.037	-0.175	-0.122	-0.296
205	0.093	0.037	-0.165	-0.127	-0.263
220	0.093	0.037	-0.151	-0.131	-0.263
235	0.093	0.033	-0.151	-0.136	-0.244
250	0.093	0.037	-0.151	-0.141	-0.244
265	0.093	0.037	-0.146	-0.145	-0.239
280	0.093	0.037	-0.146	-0.145	-0.239
295	0.093	0.037	-0.142	-0.145	-0.201
310	0.093	0.037	-0.142	-0.145	-0.229
325	0.093	0.037	-0.142	-0.145	-0.21
340	0.093	0.037	-0.146	-0.155	-0.224
355	0.062	0.037	-0.142	-0.15	-0.205
370	0.062	0.037	-0.142	-0.155	-0.205
385	0.062	0.037	-0.146	-0.155	-0.201
400	0.062	0.037	-0.146	-0.16	-0.201
415	0.062	0.042	-0.142	-0.155	-0.196
430	0.062	0.047	-0.146	-0.155	-0.196
445	0.062	0.042	-0.137	-0.15	-0.205
460	0.062	0.042	-0.132	-0.141	-0.181
475	0.062	0.047	-0.151	-0.141	-0.186
490	0.031	0.047	-0.156	-0.141	-0.186
505	0.031	0.052	-0.156	-0.131	-0.186
520	0.031	0.056	-0.156	-0.122	-0.186
535	0.031	0.056	-0.156	-0.117	-0.172
550	0.031	0.056	-0.156	-0.113	-0.181
565	0.031	0.056	-0.156	-0.117	-0.181
580	0.031	0.056	-0.156	-0.108	-0.167
595	0.031	0.056	-0.156	-0.108	-0.167
610	0.031	0.052	-0.146	-0.103	-0.167
625	0.031	0.052	-0.146	-0.098	-0.162
640	0.031	0.052	-0.146	-0.103	-0.162
655	0.031	0.052	-0.151	-0.098	-0.162
670	0.031	0.052	-0.146	-0.098	-0.157
685	0.031	0.052	-0.151	-0.103	-0.157
700	0.031	0.052	-0.151	-0.103	-0.153
715	0.031	0.052	-0.151	-0.108	-0.153
730	0.031	0.052	-0.156	-0.108	-0.153
745	0.031	0.047	-0.156	-0.113	-0.153
760	0.031	0.052	-0.156	-0.113	-0.148
775	0.031	0.047	-0.151	-0.113	-0.148
790	0.031	0.047	-0.156	-0.122	-0.148
805	0.031	0.047	-0.16	-0.127	-0.148
820	0	0.042	-0.165	-0.136	-0.153
835	0	0.042	-0.17	-0.145	-0.157
850	0	0.042	-0.175	-0.15	-0.162
865	0	0.037	-0.179	-0.155	-0.162
880	0	0.037	-0.189	-0.164	-0.167
895	-0.031	0.033	-0.194	-0.178	-0.177
910	-0.031	0.033	-0.198	-0.188	-0.181
925	-0.031	0.033	-0.208	-0.197	-0.186
940	-0.031	0.033	-0.213	-0.202	-0.191
955	-0.031	0.028	-0.213	-0.207	-0.191
970	-0.031	0.028	-0.217	-0.211	-0.196
985	-0.031	0.028	-0.222	-0.216	-0.201
1000	-0.062	0.028	-0.227	-0.226	-0.205
1015	-0.062	0.028	-0.227	-0.226	-0.201

Suwannee/UFA APT Drawdown Phase

Elapsed Time (min)	Input 1 12" Suw pumped	Input 2 6" Upper [illegible] (UAS)	Input 3 12" Lower [illegible] (UAS)	Input 4 6" Av Pk	Input 5 2" Suw OB
1030	-60.576	0.056	-0.553	-0.155	-8.576
1045	-60.67	0.052	-0.572	-0.16	-8.58
1060	-60.514	0.056	-0.563	-0.16	-8.576
1075	-60.764	0.056	-0.577	-0.164	-8.59
1090	-60.357	0.056	-0.577	-0.169	-8.59
1105	-60.732	0.052	-0.586	-0.174	-8.58
1120	-60.389	0.056	-0.577	-0.169	-8.58
1135	-60.795	0.061	-0.586	-0.169	-8.576
1150	-60.42	0.056	-0.586	-0.169	-8.58
1165	-60.389	0.056	-0.582	-0.164	-8.576
1180	-60.42	0.061	-0.586	-0.16	-8.576
1195	-60.295	0.061	-0.586	-0.155	-8.576
1210	-60.451	0.066	-0.572	-0.15	-8.571
1225	-59.982	0.066	-0.577	-0.145	-8.571
1240	-60.201	0.066	-0.572	-0.141	-8.566
1255	-60.795	0.066	-0.577	-0.131	-8.561
1270	-60.389	0.071	-0.563	-0.127	-8.561
1285	-60.732	0.071	-0.568	-0.122	-8.547
1300	-60.138	0.071	-0.558	-0.117	-8.552
1315	-60.482	0.071	-0.549	-0.117	-8.552
1330	-60.514	0.071	-0.549	-0.108	-8.552
1345	-60.639	0.071	-0.539	-0.103	-8.552
1360	-60.201	0.071	-0.539	-0.098	-8.538
1375	-60.795	0.071	-0.549	-0.094	-8.533
1390	-60.232	0.075	-0.534	-0.094	-8.523
1405	-60.295	0.071	-0.534	-0.094	-8.528
1420	-60.764	0.071	-0.534	-0.089	-8.509

Suwannee/UFA APT Recovery Phase

Elapsed Time (min)	Input 1 12" Suw pumped	Input 2 6" Upper [illegible] (UAS)	Input 3 12" Lower [illegible] (UAS)	Input 4 6" Av Pk	Input 5 2" Suw OB
1030	-0.062	0.028	-0.231	-0.23	-0.205
1045	-0.062	0.028	-0.231	-0.23	-0.21
1060	-0.062	0.028	-0.236	-0.235	-0.215
1075	-0.093	0.023	-0.241	-0.244	-0.215
1090	-0.093	0.023	-0.246	-0.244	-0.22
1105	-0.093	0.023	-0.25	-0.249	-0.22
1120	-0.093	0.023	-0.25	-0.249	-0.22
1135	-0.093	0.023	-0.25	-0.249	-0.224
1150	-0.093	0.023	-0.246	-0.235	-0.215
1165	-0.093	0.023	-0.246	-0.235	-0.215
1180	-0.093	0.023	-0.241	-0.23	-0.215
1195	-0.093	0.023	-0.241	-0.226	-0.21
1210	-0.093	0.018	-0.246	-0.23	-0.22
1225	-0.093	0.018	-0.246	-0.226	-0.215
1240	-0.093	0.018	-0.246	-0.226	-0.215
1255	-0.093	0.018	-0.241	-0.221	-0.21
1270	-0.093	0.018	-0.236	-0.216	-0.21
1285	-0.093	0.018	-0.231	-0.207	-0.201
1300	-0.062	0.014	-0.227	-0.202	-0.201
1315	-0.062	0.014	-0.222	-0.193	-0.196
1330	-0.062	0.014	-0.203	-0.188	-0.186
1345	-0.031	0.014	-0.189	-0.183	-0.172
1360	-0.031	0.014	-0.175	-0.174	-0.162
1375	-0.031	0.009	-0.165	-0.169	-0.153
1390	0	0.009	-0.16	-0.164	-0.148
1405	0	0.009	-0.151	-0.16	-0.143
1420	0	0.004	-0.146	-0.155	-0.138
1435	0	0.004	-0.142	-0.15	-0.129
1450	0	0.004	-0.137	-0.145	-0.124
1465	0.031	0	-0.127	-0.141	-0.124
1480	0.031	0	-0.123	-0.136	-0.119
1495	0.031	0	-0.118	-0.131	-0.114
1510	0.031	0	-0.113	-0.122	-0.105
1525	0.031	0	-0.104	-0.122	-0.1
1540	0.031	-0.004	-0.094	-0.127	-0.095
1555	0.031	-0.004	-0.094	-0.127	-0.1
1570	0.031	-0.009	-0.094	-0.131	-0.1
1585	0.031	-0.009	-0.094	-0.131	-0.1
1600	0.031	-0.014	-0.094	-0.136	-0.1
1615	0.031	-0.018	-0.099	-0.145	-0.1
1630	0.031	-0.023	-0.099	-0.145	-0.11
1645	0.031	-0.018	-0.094	-0.141	-0.105
1660	0.031	-0.028	-0.099	-0.145	-0.11
1675	0	-0.033	-0.104	-0.15	-0.114
1690	0.031	-0.033	-0.104	-0.15	-0.119
1705	0.031	-0.033	-0.099	-0.145	-0.114
1720	0.031	-0.028	-0.094	-0.145	-0.11
1735	0.031	-0.028	-0.099	-0.145	-0.114
1750	0.031	-0.033	-0.099	-0.145	-0.114
1765	0.031	-0.037	-0.099	-0.145	-0.114
1780	0	-0.037	-0.104	-0.15	-0.114
1795	0	-0.037	-0.099	-0.145	-0.114
1810	0	-0.042	-0.104	-0.145	-0.124
1825	0	-0.042	-0.099	-0.145	-0.114
1840	0	-0.042	-0.099	-0.131	-0.114
1855	0	-0.042	-0.099	-0.136	-0.114
1870	0	-0.047	-0.094	-0.131	-0.114
1885	0.031	-0.042	-0.089	-0.122	-0.1
1900	0.031	-0.042	-0.085	-0.122	-0.1
1915	0.031	-0.042	-0.075	-0.113	-0.095
1930	0.031	-0.042	-0.075	-0.103	-0.09
1945	0.031	-0.042	-0.066	-0.094	-0.081

Suwannee/UFA APT Drawdown Phase

Elapsed Time (min)	Input 1 12" Suw pumped	Input 2 6" Upper perm (RK5)	Input 3 12" Lower perm (RK6)	Input 4 6" AU Pz	Input 5 2" Suw OB

Suwannee/UFA APT Recovery Phase

Elapsed Time (min)	Input 1 12" Suw pumped	Input 2 6" Upper perm (RK5)	Input 3 12" Lower perm (RK6)	Input 4 6" AU Pz	Input 5 2" Suw OB
1960	0.031	-0.042	-0.061	-0.089	-0.076
1975	0.031	-0.042	-0.056	-0.084	-0.071
1990	0.031	-0.042	-0.052	-0.08	-0.062
2005	0.062	-0.047	-0.052	-0.075	-0.062
2020	0.062	-0.047	-0.047	-0.075	-0.057
2035	0.062	-0.052	-0.047	-0.07	-0.052
2050	0.062	-0.052	-0.047	-0.07	-0.047
2065	0.062	-0.056	-0.042	-0.065	-0.043
2080	0.062	-0.052	-0.033	-0.061	-0.033
2095	0.093	-0.052	-0.028	-0.051	-0.023
2110	0.093	-0.056	-0.023	-0.051	-0.019
2125	0.093	-0.056	-0.014	-0.042	-0.014
2140	0.093	-0.056	-0.009	-0.042	-0.009
2155	0.093	-0.056	0	-0.037	0
2170	0.093	-0.061	0	-0.037	0
2185	0.125	-0.052	0.014	-0.028	0.014
2200	0.125	-0.056	0.014	-0.028	0.019
2215	0.125	-0.056	0.014	-0.032	0.019
2230	0.125	-0.061	0.018	-0.028	0.023
2245	0.125	-0.061	0.014	-0.037	0.019
2260	0.125	-0.066	0.009	-0.042	0.014
2275	0.125	-0.061	0.018	-0.037	0.023
2290	0.125	-0.056	0.023	-0.032	0.028
2305	0.125	-0.056	0.023	-0.037	0.028
2320	0.156	-0.052	0.037	-0.023	0.043
2335	0.156	-0.052	0.042	-0.018	0.047
2350	0.156	-0.052	0.042	-0.023	0.047
2365	0.156	-0.056	0.047	-0.018	0.047
2380	0.156	-0.052	0.052	-0.023	0.052
2395	0.156	-0.056	0.052	-0.018	0.052
2410	0.156	-0.056	0.052	-0.023	0.052
2425	0.156	-0.056	0.052	-0.023	0.057
2440	0.156	-0.056	0.047	-0.028	0.052
2455	0.125	-0.061	0.042	-0.032	0.047
2470	0.156	-0.061	0.042	-0.032	0.047
2485	0.156	-0.061	0.042	-0.037	0.047
2500	0.125	-0.066	0.037	-0.042	0.043
2515	0.125	-0.066	0.028	-0.051	0.038
2530	0.125	-0.066	0.033	-0.047	0.038
2545	0.125	-0.066	0.033	-0.047	0.038
2560	0.125	-0.066	0.033	-0.047	0.038
2575	0.125	-0.061	0.033	-0.042	0.038
2590	0.125	-0.061	0.033	-0.042	0.043
2605	0.156	-0.056	0.033	-0.042	0.043
2620	0.125	-0.052	0.037	-0.032	0.047
2635	0.156	-0.052	0.042	-0.032	0.047
2650	0.156	-0.047	0.047	-0.023	0.052
2665	0.156	-0.042	0.052	-0.014	0.062
2680	0.156	-0.033	0.061	-0.004	0.067
2695	0.156	-0.037	0.061	0	0.067
2710	0.156	-0.028	0.066	0.009	0.076
2725	0.187	-0.018	0.075	0.018	0.086
2740	0.187	-0.009	0.089	0.032	0.1
2755	0.187	-0.009	0.094	0.037	0.1
2770	0.218	-0.004	0.104	0.051	0.11
2785	0.218	0	0.108	0.056	0.119
2800	0.218	0.004	0.118	0.07	0.124
2815	0.218	0.009	0.123	0.075	0.134
2830	0.25	0.014	0.132	0.084	0.143
2845	0.25	0.014	0.142	0.098	0.153
2860	0.25	0.014	0.146	0.098	0.153
2875	0.25	0.014	0.151	0.103	0.157

Suwannee/UFA APT Drawdown Phase

Elapsed Time (min)	Input 1 12" Side Pumped	Input 2 2" Upper Aquifer (ft/d)	Input 3 12" Lower Aquifer (ft/d)	Input 4 2" Av Pk	Input 5 2" Slow OB

Suwannee/UFA APT Recovery Phase

Elapsed Time (min)	Input 1 12" Side Pumped	Input 2 2" Upper Aquifer (ft/d)	Input 3 12" Lower Aquifer (ft/d)	Input 4 2" Av Pk	Input 5 2" Slow OB
2890	0.25	0.018	0.16	0.113	0.162
2905	0.25	0.018	0.165	0.117	0.167
2920	0.281	0.023	0.175	0.131	0.177
2935	0.281	0.023	0.179	0.136	0.181
2950	0.281	0.023	0.189	0.141	0.177
2965	0.281	0.028	0.198	0.155	0.186
2980	0.281	0.023	0.198	0.16	0.196
2995	0.281	0.023	0.203	0.164	0.196
3010	0.281	0.023	0.208	0.169	0.191
3025	0.281	0.018	0.203	0.164	0.181
3040	0.281	0.018	0.203	0.169	0.191
3055	0.281	0.018	0.203	0.164	0.191
3070	0.281	0.018	0.198	0.16	0.177
3085	0.281	0.018	0.203	0.169	0.191
3100	0.281	0.018	0.198	0.164	0.172
3115	0.281	0.018	0.203	0.169	0.186
3130	0.281	0.023	0.208	0.178	0.201
3145	0.281	0.023	0.217	0.183	0.181
3160	0.312	0.028	0.227	0.197	0.229
3175	0.312	0.028	0.227	0.197	0.196
3190	0.312	0.037	0.241	0.211	0.239
3205	0.312	0.037	0.236	0.207	0.224
3220	0.312	0.037	0.241	0.211	0.215
3235	0.312	0.033	0.241	0.207	0.196
3250	0.312	0.037	0.246	0.216	0.224
3265	0.312	0.037	0.246	0.216	0.234
3280	0.312	0.042	0.25	0.221	0.224
3295	0.312	0.042	0.255	0.226	0.239
3310	0.312	0.037	0.255	0.221	0.224
3325	0.312	0.042	0.265	0.23	0.239
3340	0.312	0.042	0.26	0.235	0.244
3355	0.312	0.042	0.265	0.24	0.244
3370	0.312	0.052	0.269	0.244	0.239
3385	0.344	0.052	0.279	0.254	0.277
3400	0.344	0.052	0.284	0.254	0.253
3415	0.344	0.056	0.288	0.263	0.268
3430	0.344	0.056	0.293	0.268	0.272
3445	0.344	0.056	0.298	0.268	0.268
3460	0.375	0.061	0.303	0.277	0.277
3475	0.375	0.066	0.307	0.282	0.282
3490	0.375	0.066	0.307	0.282	0.277
3505	0.375	0.066	0.312	0.287	0.291
3520	0.375	0.071	0.317	0.291	0.301
3535	0.375	0.071	0.317	0.291	0.301
3550	0.375	0.075	0.331	0.301	0.306
3565	0.375	0.08	0.331	0.306	0.315
3580	0.375	0.08	0.336	0.306	0.315
3595	0.406	0.08	0.336	0.306	0.315
3610	0.406	0.08	0.336	0.301	0.315
3625	0.375	0.085	0.336	0.301	0.32
3640	0.406	0.085	0.336	0.301	0.32
3655	0.406	0.085	0.331	0.296	0.315
3670	0.406	0.085	0.331	0.291	0.315
3685	0.406	0.085	0.331	0.287	0.315
3700	0.406	0.09	0.331	0.301	0.32
3715	0.406	0.094	0.34	0.31	0.33
3730	0.406	0.094	0.336	0.301	0.33
3745	0.406	0.099	0.336	0.301	0.33
3760	0.406	0.099	0.34	0.301	0.335
3775	0.406	0.099	0.336	0.291	0.33
3790	0.406	0.104	0.321	0.291	0.33
3805	0.406	0.108	0.34	0.291	0.33

Suwannee/UFA APT Drawdown Phase

Elapsed Time (min)	Input 1 12" Suw pumped	Input 7 6" Upper perm (HAS)	Input 3 10" Lower perm (UAS)	Input 4 4" Av PR	Input 5 2" Suw OB

Suwannee/UFA APT Recovery Phase

Elapsed Time (min)	Input 1 12" Suw pumped	Input 8 3" Upper perm (HAS)	Input 3 10" Lower perm (UAS)	Input 4 4" Av PR	Input 5 2" Suw OB
3820	0.406	0.108	0.34	0.291	0.335
3835	0.406	0.113	0.34	0.291	0.335
3850	0.406	0.113	0.336	0.282	0.33
3865	0.406	0.123	0.336	0.277	0.335
3880	0.406	0.132	0.336	0.268	0.339
3895	0.406	0.132	0.331	0.263	0.33
3910	0.406	0.137	0.331	0.259	0.33
3925	0.406	0.142	0.321	0.249	0.325
3940	0.406	0.151	0.331	0.254	0.33
3955	0.406	0.161	0.336	0.263	0.335
3970	0.406	0.165	0.336	0.263	0.339
3985	0.406	0.165	0.336	0.254	0.335
4000	0.406	0.175	0.34	0.263	0.339
4015	0.406	0.175	0.34	0.263	0.339
4030	0.406	0.18	0.336	0.259	0.339
4045	0.406	0.184	0.34	0.263	0.339
4060	0.406	0.189	0.345	0.268	0.344
4075	0.437	0.198	0.35	0.277	0.354
4090	0.406	0.203	0.35	0.277	0.354
4105	0.406	0.203	0.35	0.277	0.354
4120	0.437	0.208	0.355	0.282	0.354
4135	0.437	0.213	0.359	0.287	0.359
4150	0.437	0.213	0.359	0.287	0.359
4165	0.437	0.217	0.359	0.296	0.359
4180	0.437	0.222	0.364	0.301	0.363
4195	0.437	0.222	0.364	0.306	0.363
4210	0.437	0.227	0.369	0.306	0.363
4225	0.437	0.232	0.374	0.315	0.368
4240	0.437	0.232	0.374	0.32	0.373
4255	0.437	0.236	0.378	0.324	0.373
4270	0.437	0.236	0.378	0.334	0.373
4285	0.437	0.236	0.378	0.329	0.373
4300	0.437	0.236	0.378	0.329	0.373
4315	0.437	0.236	0.378	0.334	0.373
4330	0.437	0.241	0.374	0.334	0.368
4345	0.437	0.241	0.378	0.339	0.373
4360	0.437	0.246	0.383	0.343	0.373
4375	0.437	0.246	0.383	0.353	0.373
4390	0.437	0.251	0.388	0.362	0.373
4405	0.469	0.251	0.392	0.372	0.378
4420	0.469	0.255	0.397	0.381	0.378
4435	0.469	0.255	0.397	0.386	0.378
4450	0.469	0.255	0.397	0.39	0.378
4465	0.469	0.255	0.397	0.39	0.378
4480	0.469	0.26	0.397	0.395	0.378
4495	0.437	0.265	0.397	0.4	0.378
4510	0.437	0.265	0.397	0.4	0.378
4525	0.437	0.265	0.397	0.395	0.373
4540	0.437	0.27	0.402	0.405	0.378
4555	0.469	0.274	0.407	0.409	0.382
4570	0.469	0.274	0.407	0.409	0.382
4585	0.469	0.279	0.411	0.414	0.392
4600	0.469	0.284	0.416	0.419	0.392
4615	0.469	0.284	0.416	0.414	0.387
4630	0.469	0.288	0.421	0.419	0.397
4645	0.469	0.293	0.43	0.428	0.411
4660	0.469	0.303	0.435	0.433	0.406
4675	0.469	0.307	0.435	0.433	0.411
4690	0.469	0.312	0.435	0.437	0.406
4705	0.5	0.317	0.44	0.437	0.406
4720	0.5	0.317	0.449	0.442	0.416
4735	0.5	0.322	0.449	0.447	0.416

Suwannee/UFA APT Drawdown Phase

Elapsed Time (min)	Input 1 12" Suw pumped	Input 2 6" Upper perm (IAS)	Input 3 10" Lower perm (IAS)	Input 4 4" Av Pz	Input 5 2" Suw OB

Suwannee/UFA APT Recovery Phase

Elapsed Time (min)	Input 1 12" Suw pumped	Input 2 6" Upper perm (IAS)	Input 3 10" Lower perm (IAS)	Input 4 4" Av Pz	Input 5 2" Suw OB
4750	0.5	0.326	0.449	0.452	0.43
4765	0.5	0.326	0.449	0.452	0.426
4780	0.5	0.331	0.454	0.447	0.426
4795	0.5	0.331	0.454	0.452	0.43
4810	0.5	0.331	0.454	0.447	0.421
4825	0.5	0.336	0.454	0.452	0.426
4840	0.5	0.341	0.459	0.456	0.43
4855	0.5	0.345	0.468	0.466	0.44
4870	0.5	0.35	0.463	0.466	0.44
4885	0.5	0.35	0.468	0.466	0.445
4900	0.5	0.35	0.463	0.466	0.43
4915	0.5	0.355	0.468	0.47	0.44
4930	0.5	0.355	0.468	0.466	0.44
4945	0.5	0.355	0.463	0.461	0.435
4960	0.5	0.36	0.463	0.461	0.44
4975	0.5	0.364	0.468	0.466	0.445
4990	0.5	0.369	0.473	0.47	0.449
5005	0.531	0.369	0.473	0.47	0.449
5020	0.5	0.369	0.468	0.466	0.445
5035	0.5	0.374	0.468	0.466	0.445
5050	0.5	0.374	0.468	0.466	0.449
5065	0.531	0.379	0.468	0.466	0.449
5080	0.5	0.379	0.468	0.466	0.449
5095	0.531	0.383	0.468	0.466	0.449
5110	0.5	0.383	0.463	0.461	0.449
5125	0.5	0.379	0.459	0.452	0.44
5140	0.5	0.379	0.454	0.442	0.44
5155	0.5	0.383	0.454	0.442	0.435
5170	0.5	0.383	0.449	0.433	0.435
5185	0.5	0.388	0.454	0.437	0.435
5200	0.5	0.393	0.449	0.433	0.435
5215	0.5	0.393	0.445	0.423	0.43
5230	0.5	0.397	0.449	0.423	0.435
5245	0.5	0.402	0.449	0.423	0.435
5260	0.5	0.407	0.454	0.428	0.44
5275	0.5	0.412	0.454	0.428	0.445
5290	0.5	0.416	0.459	0.428	0.445
5305	0.5	0.421	0.463	0.433	0.449
5320	0.5	0.426	0.463	0.433	0.454
5335	0.531	0.431	0.463	0.428	0.454
5350	0.531	0.435	0.468	0.428	0.454
5365	0.531	0.44	0.468	0.433	0.459
5380	0.531	0.45	0.478	0.437	0.464
5395	0.531	0.454	0.478	0.437	0.464
5410	0.531	0.459	0.482	0.442	0.473
5425	0.531	0.464	0.482	0.442	0.473
5440	0.531	0.469	0.482	0.437	0.473
5455	0.531	0.473	0.482	0.437	0.473
5470	0.531	0.478	0.487	0.437	0.473
5485	0.531	0.483	0.487	0.442	0.478
5500	0.531	0.487	0.487	0.442	0.478
5515	0.531	0.492	0.487	0.442	0.478
5530	0.531	0.492	0.482	0.433	0.473
5545	0.531	0.492	0.478	0.433	0.469
5560	0.531	0.497	0.482	0.433	0.473
5575	0.531	0.502	0.478	0.428	0.469
5590	0.531	0.502	0.478	0.428	0.469
5605	0.531	0.506	0.468	0.428	0.469
5620	0.531	0.506	0.468	0.423	0.469
5635	0.531	0.506	0.473	0.423	0.464
5650	0.531	0.511	0.468	0.433	0.464
5665	0.531	0.516	0.468	0.428	0.464

Suwannee/UFA APT Drawdown Phase

Elapsed Time (min)	Input 1 [illegible]	Input 2 [illegible]	Input 3 [illegible]	Input 4 [illegible]	Input 5 [illegible]

Suwannee/UFA APT Recovery Phase

Elapsed Time (min)	Input 1 [illegible]	Input 2 [illegible]	Input 3 [illegible]	Input 4 [illegible]	Input 5 [illegible]
5680	0.531	0.521	0.463	0.423	0.459
5695	0.531	0.521	0.468	0.423	0.459
5710	0.531	0.525	0.468	0.423	0.459
5725	0.531	0.53	0.463	0.423	0.459
5740	0.531	0.53	0.463	0.423	0.459
5755	0.531	0.53	0.459	0.419	0.454
5770	0.531	0.535	0.463	0.423	0.454
5785	0.5	0.535	0.459	0.419	0.449
5800	0.5	0.535	0.454	0.419	0.449
5815	0.5	0.54	0.454	0.419	0.445
5830	0.5	0.54	0.454	0.419	0.445
5845	0.5	0.544	0.454	0.423	0.445
5860	0.531	0.549	0.459	0.428	0.449
5875	0.5	0.549	0.463	0.428	0.445
5890	0.531	0.554	0.463	0.428	0.445
5905	0.531	0.554	0.468	0.437	0.445
5920	0.531	0.563	0.473	0.447	0.464
5935	0.531	0.568	0.478	0.456	0.454
5950	0.531	0.573	0.478	0.456	0.459
5965	0.531	0.573	0.482	0.461	0.469
5980	0.531	0.578	0.482	0.456	0.464
5995	0.531	0.578	0.478	0.452	0.459
6010	0.531	0.578	0.478	0.452	0.454
6025	0.531	0.582	0.478	0.452	0.459
6040	0.531	0.587	0.478	0.456	0.459
6055	0.531	0.587	0.478	0.452	0.459
6070	0.531	0.596	0.478	0.447	0.464
6085	0.531	0.601	0.478	0.452	0.469
6100	0.531	0.601	0.482	0.452	0.469
6115	0.531	0.606	0.482	0.452	0.473
6130	0.531	0.611	0.482	0.452	0.478
6145	0.531	0.615	0.478	0.442	0.473
6160	0.531	0.62	0.492	0.456	0.478
6175	0.531	0.62	0.487	0.452	0.483
6190	0.531	0.625	0.478	0.437	0.473
6205	0.531	0.625	0.463	0.419	0.464
6220	0.563	0.639	0.478	0.433	0.478
6235	0.531	0.634	0.463	0.414	0.464
6250	0.531	0.649	0.473	0.428	0.478
6265	0.531	0.649	0.468	0.419	0.469
6280	0.563	0.658	0.478	0.428	0.478
6295	0.563	0.663	0.473	0.423	0.478
6310	0.563	0.672	0.492	0.437	0.497
6325	0.563	0.682	0.497	0.447	0.497
6340	0.563	0.686	0.497	0.447	0.502
6355	0.563	0.691	0.501	0.447	0.502
6370	0.594	0.696	0.511	0.452	0.512
6385	0.594	0.696	0.506	0.452	0.507
6400	0.594	0.701	0.506	0.456	0.512
6415	0.563	0.696	0.492	0.437	0.493
6430	0.563	0.701	0.492	0.437	0.497
6445	0.563	0.71	0.501	0.442	0.507
6460	0.563	0.71	0.497	0.442	0.502
6475	0.563	0.715	0.497	0.437	0.502
6490	0.563	0.715	0.492	0.437	0.497
6505	0.563	0.72	0.501	0.442	0.502
6520	0.594	0.729	0.501	0.452	0.502
6535	0.594	0.729	0.506	0.452	0.507
6550	0.594	0.729	0.497	0.442	0.507
6565	0.563	0.734	0.492	0.437	0.502
6580	0.563	0.739	0.497	0.442	0.507
6595	0.563	0.734	0.482	0.423	0.493

Suwannee/UFA APT Drawdown Phase

Elapsed Time (min)	Input 1 12" Suw pumped	Input 2 8" Upper perm (IAS)	Input 3 12" Lower perm (IAS)	Input 4 8" Av Pk	Input 5 2" Suw OB

Suwannee/UFA APT Recovery Phase

Elapsed Time (min)	Input 1 12" Suw pumped	Input 2 8" Upper perm (IAS)	Input 3 12" Lower perm (IAS)	Input 4 8" Av Pk	Input 5 2" Suw OB
6610	0.563	0.739	0.487	0.428	0.497
6625	0.563	0.748	0.497	0.442	0.507
6640	0.594	0.758	0.506	0.461	0.512
6655	0.594	0.758	0.511	0.461	0.516
6670	0.594	0.767	0.511	0.466	0.521
6685	0.594	0.772	0.516	0.475	0.526
6700	0.594	0.777	0.516	0.475	0.531
6715	0.594	0.777	0.516	0.475	0.526
6730	0.625	0.786	0.525	0.485	0.54
6745	0.625	0.791	0.52	0.48	0.54
6760	0.625	0.8	0.539	0.489	0.545
6775	0.625	0.805	0.535	0.485	0.55
6790	0.625	0.814	0.549	0.499	0.56
6805	0.625	0.819	0.549	0.494	0.56
6820	0.657	0.824	0.553	0.499	0.564
6835	0.625	0.829	0.558	0.499	0.564
6850	0.657	0.833	0.563	0.503	0.569
6865	0.657	0.843	0.568	0.513	0.574
6880	0.657	0.848	0.572	0.518	0.579
6895	0.657	0.857	0.577	0.522	0.588
6910	0.657	0.862	0.587	0.527	0.593
6925	0.688	0.867	0.587	0.527	0.598
6940	0.657	0.871	0.587	0.527	0.593
6955	0.688	0.876	0.587	0.527	0.593
6970	0.688	0.881	0.591	0.532	0.598
6985	0.688	0.885	0.591	0.527	0.603
7000	0.688	0.895	0.596	0.532	0.603
7015	0.688	0.9	0.601	0.536	0.607
7030	0.688	0.9	0.591	0.532	0.603
7045	0.657	0.9	0.591	0.527	0.598
7060	0.688	0.909	0.596	0.536	0.603
7075	0.688	0.914	0.596	0.536	0.603
7090	0.688	0.919	0.601	0.541	0.607
7105	0.688	0.919	0.601	0.541	0.607
7120	0.688	0.919	0.591	0.532	0.598
7135	0.688	0.923	0.591	0.532	0.593
7150	0.657	0.923	0.587	0.527	0.593
7165	0.657	0.919	0.577	0.518	0.584
7180	0.657	0.919	0.568	0.508	0.574
7195	0.657	0.919	0.563	0.503	0.569
7210	0.625	0.919	0.553	0.499	0.56
7225	0.625	0.923	0.553	0.494	0.555
7240	0.625	0.923	0.549	0.494	0.555
7255	0.625	0.928	0.549	0.494	0.555
7270	0.625	0.933	0.553	0.499	0.555
7285	0.625	0.938	0.549	0.499	0.55
7300	0.625	0.938	0.549	0.503	0.55
7315	0.625	0.942	0.553	0.503	0.555
7330	0.625	0.942	0.549	0.503	0.55
7345	0.625	0.947	0.553	0.503	0.55
7360	0.625	0.952	0.558	0.513	0.555
7375	0.625	0.952	0.558	0.513	0.555
7390	0.625	0.961	0.563	0.527	0.564
7405	0.625	0.961	0.563	0.527	0.56
7420	0.625	0.961	0.553	0.518	0.55
7435	0.625	0.966	0.563	0.527	0.56
7450	0.657	0.971	0.568	0.532	0.56
7465	0.657	0.98	0.568	0.536	0.564
7480	0.657	0.98	0.577	0.541	0.569
7495	0.657	0.99	0.582	0.546	0.579
7510	0.657	0.99	0.587	0.551	0.579
7525	0.657	0.994	0.587	0.551	0.579

Suwannee/UFA APT Drawdown Phase

Elapsed Time (min)	Input 1 12" Suw pumped	Input 2 6" Upper piezo (DUS)	Input 3 10" Lower piezo (DLS)	Input 4 6" Av Pk	Input 5 2" Suw OB

Suwannee/UFA APT Recovery Phase

Elapsed Time (min)	Input 1 12" Suw pumped	Input 2 6" Upper piezo (DUS)	Input 3 10" Lower piezo (DLS)	Input 4 6" Av Pk	Input 5 2" Suw OB
7540	0.688	1.004	0.596	0.565	0.588
7555	0.688	1.004	0.606	0.565	0.593
7570	0.688	1.013	0.61	0.574	0.603
7585	0.688	1.013	0.61	0.574	0.603
7600	0.688	1.018	0.61	0.569	0.593
7615	0.688	1.023	0.615	0.574	0.603
7630	0.688	1.023	0.61	0.574	0.603
7645	0.688	1.028	0.615	0.579	0.607
7660	0.688	1.037	0.62	0.579	0.612
7675	0.688	1.037	0.624	0.579	0.612
7690	0.688	1.047	0.629	0.588	0.612
7705	0.688	1.051	0.629	0.588	0.622
7720	0.688	1.051	0.634	0.588	0.622
7735	0.688	1.056	0.629	0.588	0.627
7750	0.688	1.061	0.624	0.584	0.617
7765	0.688	1.061	0.624	0.584	0.617
7780	0.688	1.061	0.62	0.579	0.612
7795	0.688	1.066	0.62	0.574	0.612
7810	0.688	1.066	0.62	0.574	0.607
7825	0.688	1.07	0.61	0.569	0.607
7840	0.688	1.07	0.61	0.56	0.603
7855	0.688	1.075	0.61	0.56	0.603
7870	0.657	1.075	0.601	0.555	0.598
7885	0.688	1.08	0.601	0.555	0.598
7900	0.657	1.08	0.601	0.555	0.598
7915	0.688	1.085	0.596	0.551	0.593
7930	0.688	1.089	0.596	0.551	0.593
7945	0.657	1.089	0.591	0.541	0.588
7960	0.657	1.089	0.587	0.536	0.584
7975	0.657	1.089	0.582	0.536	0.579
7990	0.657	1.099	0.587	0.541	0.588
8005	0.657	1.099	0.582	0.541	0.584
8020	0.657	1.099	0.577	0.536	0.579
8035	0.657	1.099	0.572	0.532	0.579
8050	0.657	1.099	0.572	0.532	0.574
8065	0.657	1.108	0.582	0.541	0.584
8080	0.657	1.113	0.591	0.546	0.588
8095	0.657	1.118	0.587	0.546	0.588
8110	0.657	1.122	0.587	0.546	0.588
8125	0.688	1.132	0.596	0.555	0.603
8140	0.688	1.137	0.606	0.565	0.607
8155	0.688	1.137	0.606	0.565	0.607
8170	0.688	1.146	0.61	0.569	0.612
8185	0.688	1.151	0.62	0.579	0.622
8200	0.719	1.156	0.62	0.574	0.622
8215	0.688	1.156	0.62	0.574	0.627
8230	0.719	1.17	0.634	0.584	0.641
8245	0.719	1.17	0.634	0.588	0.641
8260	0.719	1.184	0.653	0.602	0.655
8275	0.719	1.184	0.653	0.602	0.66
8290	0.719	1.189	0.653	0.602	0.66
8305	0.75	1.194	0.658	0.607	0.66
8320	0.75	1.198	0.662	0.607	0.665
8335	0.75	1.203	0.662	0.612	0.67
8350	0.75	1.208	0.672	0.616	0.674
8365	0.782	1.217	0.681	0.626	0.689
8380	0.75	1.217	0.677	0.621	0.689
8395	0.782	1.227	0.681	0.626	0.689
8410	0.75	1.222	0.672	0.612	0.684
8425	0.75	1.222	0.672	0.612	0.684
8440	0.782	1.241	0.691	0.635	0.698
8455	0.782	1.246	0.691	0.631	0.698

Suwannee/UFA APT Drawdown Phase

Elapsed Time (min)	Input 1 2" Suw permeant	Input 2 2" Lower zone (UFA)	Input 3 2" Lower zone (UFA)	Input 4 2" Av Pz	Input 5 2" Suw OB

Suwannee/UFA APT Recovery Phase

Elapsed Time (min)	Input 1 2" Suw permeant	Input 2 2" Upper zone (UFA)	Input 3 2" Lower zone (UFA)	Input 4 2" Av Pz	Input 5 2" Suw OB
8470	0.782	1.25	0.696	0.635	0.703
8485	0.782	1.255	0.696	0.64	0.708
8500	0.782	1.25	0.686	0.621	0.698
8515	0.782	1.255	0.691	0.621	0.698
8530	0.75	1.25	0.672	0.607	0.684
8545	0.75	1.25	0.667	0.602	0.679
8560	0.75	1.26	0.677	0.612	0.689
8575	0.75	1.26	0.672	0.602	0.679
8590	0.75	1.265	0.672	0.607	0.679
8605	0.75	1.265	0.667	0.602	0.679
8620	0.75	1.265	0.653	0.588	0.665
8635	0.719	1.265	0.643	0.579	0.655
8650	0.75	1.269	0.643	0.579	0.655
8665	0.719	1.269	0.639	0.574	0.646
8680	0.719	1.269	0.639	0.574	0.646
8695	0.719	1.279	0.643	0.579	0.651
8710	0.719	1.279	0.639	0.579	0.641
8725	0.719	1.279	0.634	0.574	0.646
8740	0.719	1.288	0.648	0.588	0.651
8755	0.75	1.303	0.662	0.607	0.665
8770	0.719	1.298	0.653	0.598	0.66
8785	0.719	1.298	0.653	0.598	0.655
8800	0.719	1.298	0.658	0.607	0.651
8815	0.75	1.307	0.662	0.616	0.66
8830	0.75	1.307	0.662	0.616	0.66
8845	0.75	1.312	0.662	0.616	0.655
8860	0.75	1.312	0.667	0.621	0.665
8875	0.75	1.321	0.672	0.631	0.66
8890	0.75	1.321	0.681	0.645	0.67
8905	0.75	1.331	0.696	0.664	0.684
8920	0.782	1.34	0.71	0.682	0.694
8935	0.782	1.345	0.719	0.697	0.708
8950	0.782	1.345	0.714	0.692	0.703
8965	0.813	1.355	0.733	0.711	0.713
8980	0.813	1.355	0.733	0.711	0.718
8995	0.813	1.359	0.738	0.715	0.727
9010	0.813	1.369	0.743	0.72	0.732
9025	0.813	1.374	0.748	0.72	0.737
9040	0.844	1.393	0.757	0.72	0.756
9055	0.844	1.402	0.767	0.725	0.761
9070	0.844	1.407	0.771	0.73	0.765
9085	0.844	1.412	0.781	0.739	0.77
9100	0.844	1.416	0.781	0.739	0.775
9115	0.844	1.421	0.785	0.744	0.775
9130	0.875	1.43	0.795	0.753	0.789
9145	0.875	1.426	0.79	0.748	0.78
9160	0.875	1.435	0.795	0.753	0.789
9175	0.875	1.435	0.795	0.748	0.789
9190	0.875	1.44	0.795	0.748	0.785
9205	0.875	1.445	0.8	0.753	0.789
9220	0.844	1.445	0.795	0.748	0.785
9235	0.875	1.454	0.804	0.753	0.794
9250	0.875	1.459	0.804	0.758	0.799
9265	0.875	1.459	0.804	0.758	0.799
9280	0.875	1.459	0.804	0.753	0.799
9295	0.875	1.464	0.804	0.753	0.799
9310	0.875	1.464	0.8	0.748	0.794
9325	0.875	1.464	0.79	0.739	0.785
9340	0.875	1.464	0.785	0.734	0.785
9355	0.875	1.468	0.785	0.73	0.78
9370	0.844	1.468	0.781	0.725	0.77
9385	0.844	1.473	0.785	0.73	0.785

Suwannee/UFA APT Drawdown Phase

Elapsed Time (min)	Input 1 12" Suw (pumped)	Input 2 6" Upper perm (UAS)	Input 3 12" Lower perm (UAS)	Input 4 6" AV Pk	Input 5 2" Suw OS

Suwannee/UFA APT Recovery Phase

Elapsed Time (min)	Input 1 12" Suw (pumped)	Input 2 6" Upper perm (UAS)	Input 3 12" Lower perm (UAS)	Input 4 6" AV Pk	Input 5 2" Suw OS
9400	0.875	1.478	0.781	0.73	0.78
9415	0.875	1.478	0.776	0.725	0.775
9430	0.844	1.478	0.776	0.72	0.775
9445	0.844	1.483	0.771	0.72	0.775
9460	0.844	1.483	0.767	0.711	0.77
9475	0.844	1.483	0.767	0.711	0.77
9490	0.844	1.487	0.762	0.711	0.765
9505	0.844	1.487	0.767	0.711	0.77
9520	0.844	1.492	0.767	0.715	0.77
9535	0.844	1.492	0.767	0.715	0.765
9550	0.844	1.497	0.767	0.72	0.775
9565	0.844	1.502	0.781	0.73	0.78
9580	0.875	1.511	0.785	0.739	0.789
9595	0.875	1.516	0.79	0.744	0.794
9610	0.875	1.521	0.795	0.748	0.799
9625	0.907	1.525	0.809	0.763	0.809
9640	0.907	1.53	0.809	0.763	0.813
9655	0.907	1.535	0.819	0.772	0.818
9670	0.907	1.539	0.823	0.781	0.823
9685	0.907	1.544	0.833	0.786	0.837
9700	0.907	1.549	0.838	0.791	0.842
9715	0.938	1.554	0.842	0.796	0.847
9730	0.938	1.563	0.852	0.805	0.856
9745	0.938	1.568	0.861	0.814	0.866
9760	0.938	1.577	0.871	0.824	0.876
9775	0.969	1.582	0.88	0.833	0.88
9790	0.969	1.587	0.89	0.838	0.89
9805	1.001	1.592	0.894	0.847	0.895
9820	1.001	1.596	0.899	0.847	0.9
9835	1.001	1.601	0.904	0.852	0.904
9850	1.001	1.601	0.909	0.852	0.909
9865	1.001	1.606	0.909	0.857	0.914
9880	1.001	1.615	0.918	0.861	0.923
9895	1.001	1.615	0.918	0.861	0.919
9910	1.001	1.62	0.918	0.861	0.928
9925	1.001	1.625	0.923	0.861	0.928
9940	1.001	1.625	0.923	0.861	0.928
9955	1.001	1.63	0.923	0.861	0.928
9970	1.001	1.634	0.923	0.861	0.928
9985	1.001	1.634	0.918	0.852	0.923
10000	1.001	1.634	0.918	0.847	0.923
10015	1.001	1.634	0.913	0.843	0.919
10030	1.001	1.634	0.909	0.838	0.914
10045	1.001	1.634	0.899	0.828	0.909
10060	1.001	1.634	0.894	0.824	0.904
10075	0.969	1.639	0.89	0.819	0.895
10090	0.969	1.644	0.89	0.819	0.9
10105	0.969	1.644	0.89	0.819	0.89
10120	0.969	1.644	0.88	0.814	0.89
10135	0.969	1.648	0.885	0.814	0.88
10150	0.969	1.648	0.88	0.814	0.885
10165	0.969	1.653	0.88	0.814	0.88
10180	0.969	1.653	0.88	0.819	0.876
10195	0.969	1.663	0.89	0.828	0.88
10210	0.969	1.663	0.899	0.843	0.88
10225	0.969	1.667	0.904	0.861	0.895
10240	0.969	1.672	0.909	0.871	0.89
10255	0.969	1.677	0.913	0.876	0.9
10270	1.001	1.677	0.918	0.885	0.914