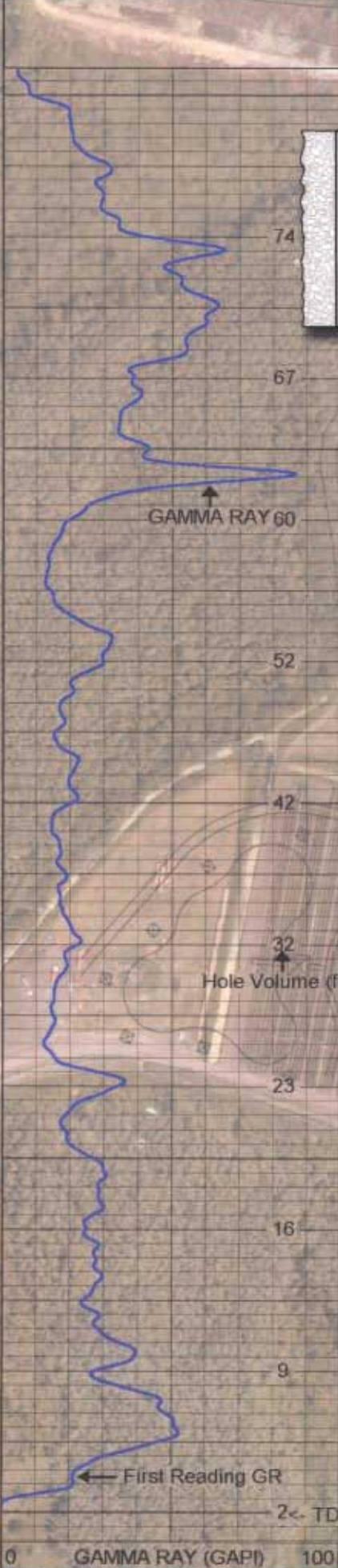


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WELLFIELD COMPLETION REPORT FOR THE TOWN OF AVE MARIA WELLS P-1 THROUGH P-3

P-1

P-2

P-3

Prepared by:

CH2MHILL

JUNE 2005

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- C Daily Construction Reports
- D Lithologic Description of Formation Samples
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- F Borehole Video Survey - Video Tapes

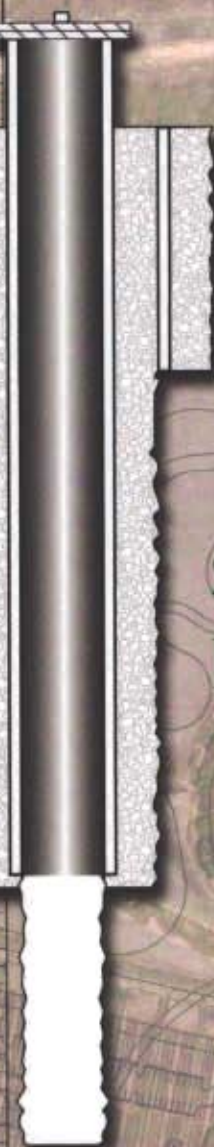
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Acronyms and Abbreviations

bls	Below land surface
cu ft	Cubic feet
FAC	Florida Administrative Code
ft	Feet
ft ² /d	Squared feet per day
gpd	Gallons per day
gpd/ft	Gallons per day per foot
gpm	Gallons per minute
gpm/ft	Gallons per minute per foot
ID	Inside diameter
MCL	Maximum contaminant level
µS/cm	Microseimans per centimeter
mg/L	Milligrams per liter
ND	Not detected
NPT	National Pipe Thread
NTD	New Town Development
OD	Outside diameter
pCi/L	Picocuries per liter
psi	Pounds per square inch
PVC	Polyvinyl Chloride
SDR	Standard Dimension Ratios
SFWMD	South Florida Water Management District
T	Transmissivity
TDS	Total dissolved solids
µg/L	Micrograms per liter
WUP	Water Use Permit



SECTION 1 INTRODUCTION

P-1

P-2

P-3

SECTION 1

Introduction

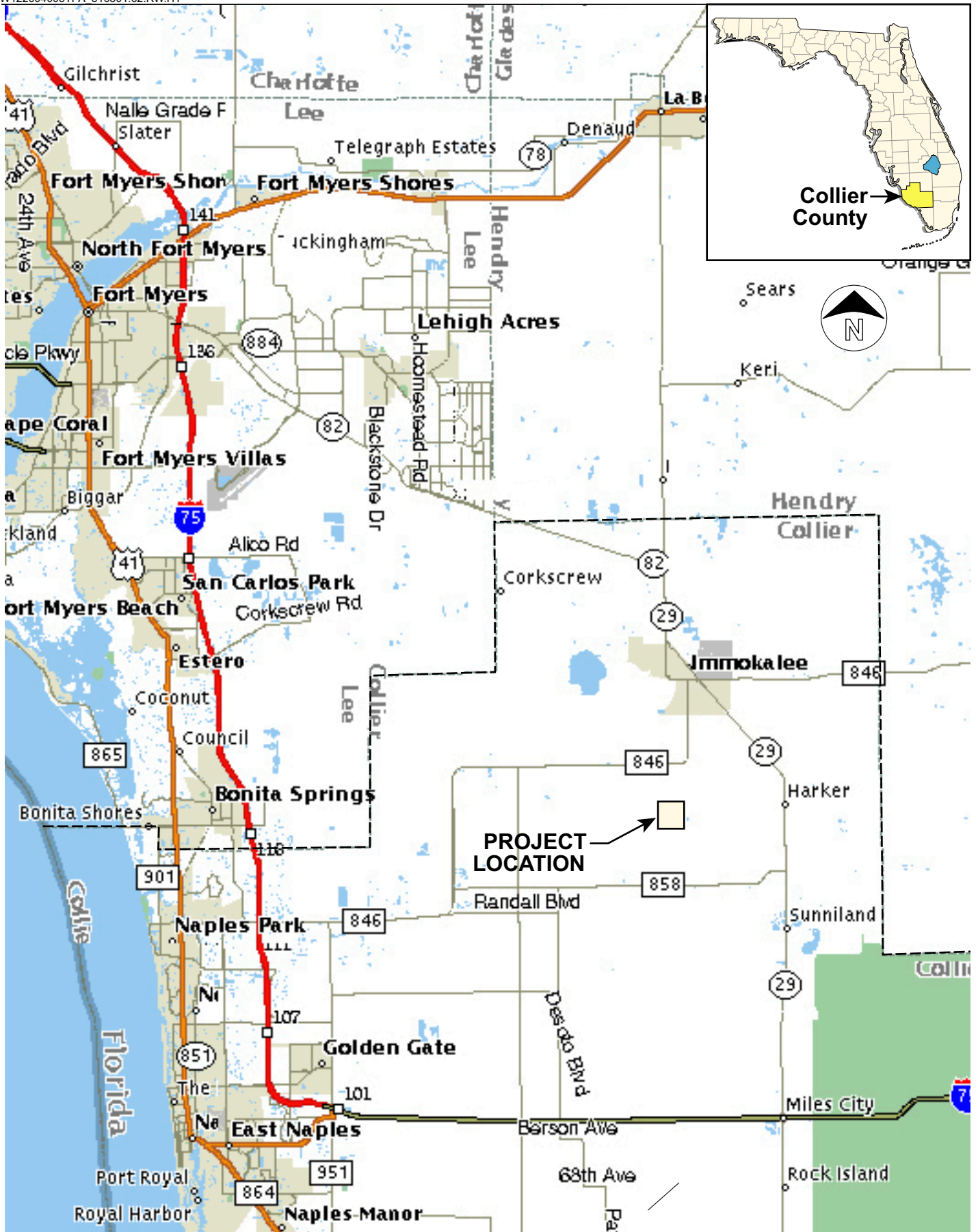
A new town, Ave Maria, and an associated university, Ave Maria University, is under development in Collier County Florida. The Ave Maria Utility Company will be providing water and wastewater infrastructure for the proposed town and university. CH2M HILL has been tasked with designing, constructing, and operating the water supply and treatment facilities, as well as the wastewater treatment and disposal facilities.

The focus of this report is to summarize the construction and testing of the production wells that will supply the raw water source for membrane treatment at the Ave Maria water treatment facility. As part of this project, three wells were constructed into the lower Tamiami aquifer. **Figure 1-1** is a location map of the wellfield. **Figure 1-2** presents a detailed site map showing the location of each well.

CH2M HILL served as the engineer of record for the design, construction, and testing of the production wells. Diversified Drilling Corporation of Fort Myers, Florida was selected as the prime contractor for construction of the production wells. MV Geophysical Surveys, Inc. was responsible for conducting geophysical logging operations during construction of the wells. Background water quality analysis was performed by Sanders Laboratory of Nokomis, Florida.

Typically, well construction permitting in southwest Florida is regulated by the South Florida Water Management District (SFWMD); however, in Collier County, the permit is issued directly from the county. At the time of the proposed drilling start date, the water use permit (WUP) for the Ave Maria University and Town was still in the review process and had not been issued. Since the proposed wells were associated with the WUP, a production well construction permit could not be obtained. To maintain the construction schedule, the wells were permitted as “test” wells. Permits were obtained by the drilling contractor prior to construction activities. Following completion of the wells, the contractor submitted well completion report forms for each well to the SFWMD. After the water use permit (WUP) for the Ave Maria University and Town was issued, the “test” wells were re-permitted as supply wells. In the WUP (No. 11-02298-W), the production wells are designated PWS-1 through PWS-3. However, in this report, the wells are designated Wells P-1 through P-3. Copies of the well construction permits and well completion reports for Wells P-1 through P-3 are provided in **Appendix A**.

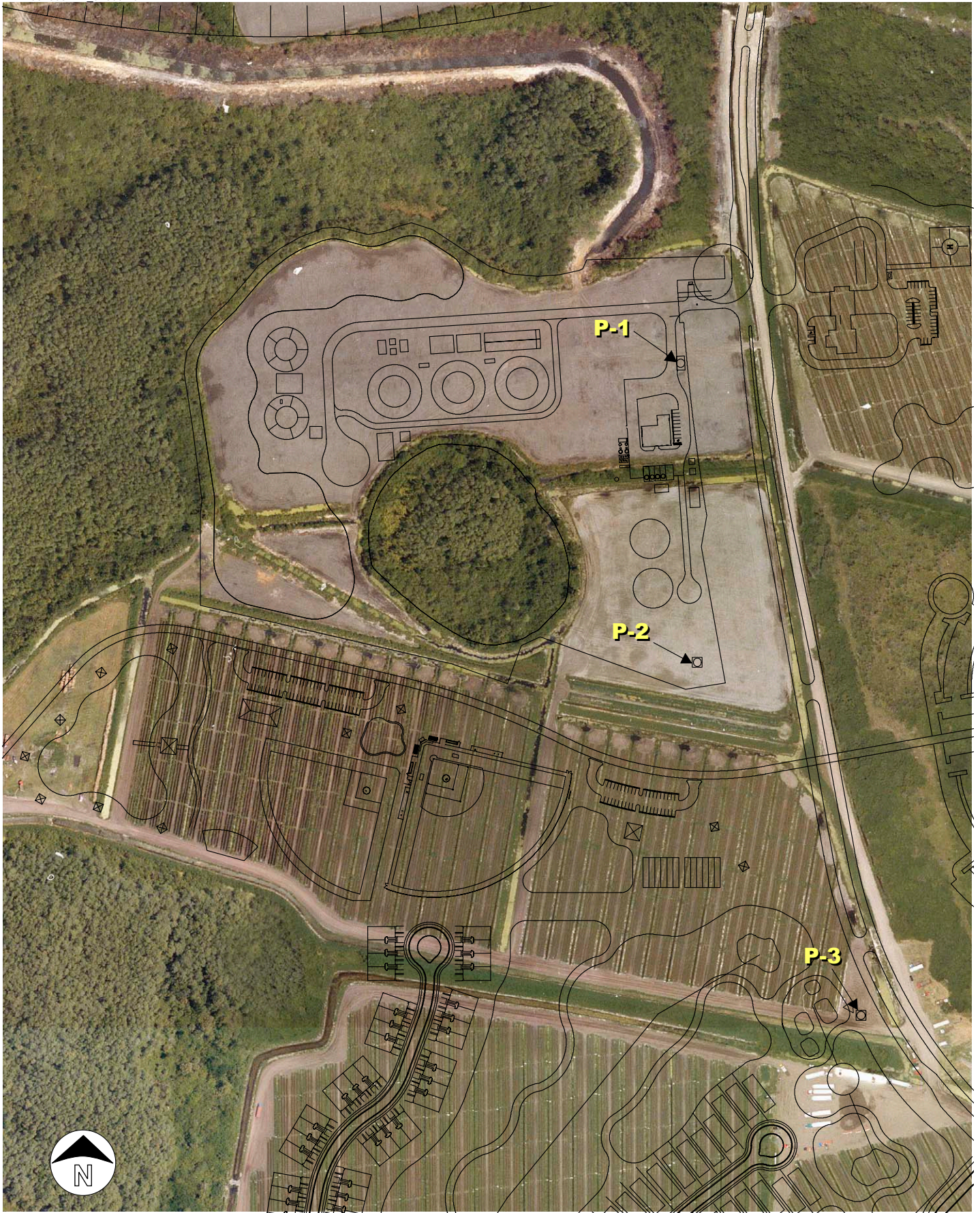
The results of the construction and testing of production Wells P-1 through P-3 are outlined in the following sections of this report.



Source: 2004 MapQuest.com, Inc.

FIGURE 1-1

Ave Maria Project Location

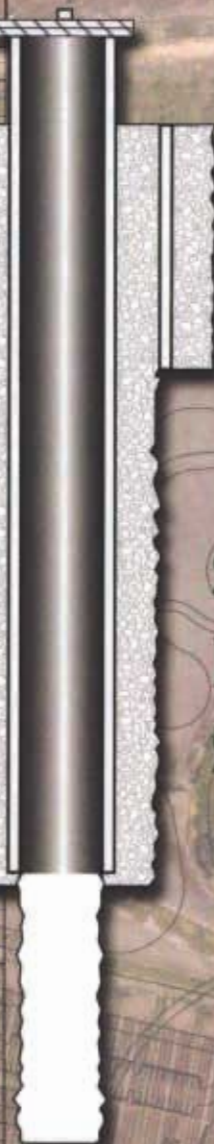
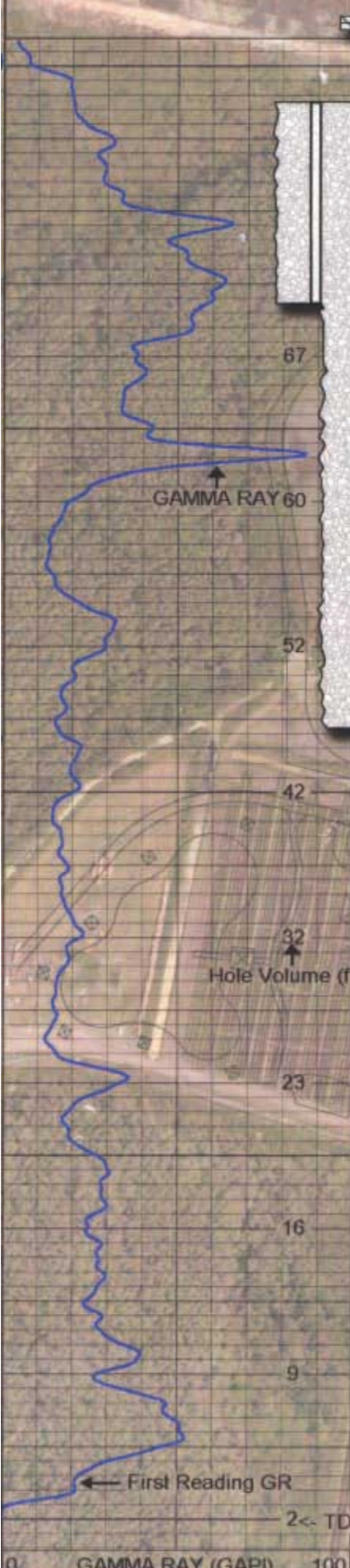


0 100 200 400 600 Feet

FIGURE 1-2

Production Well Locations

Wellfield Completion Report for the Town of Ave Maria - Wells P-1 through P-3



SECTION 2 HYDROGEOLOGIC SETTING

P-1

P-2

P-3

SECTION 2

Hydrogeologic Setting

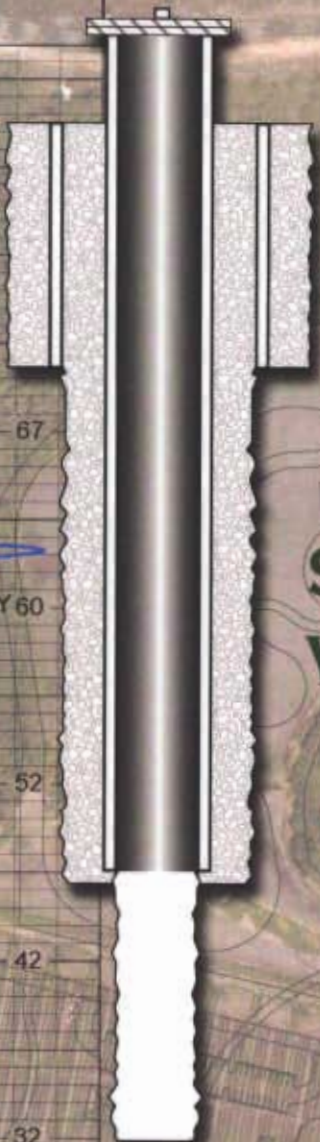
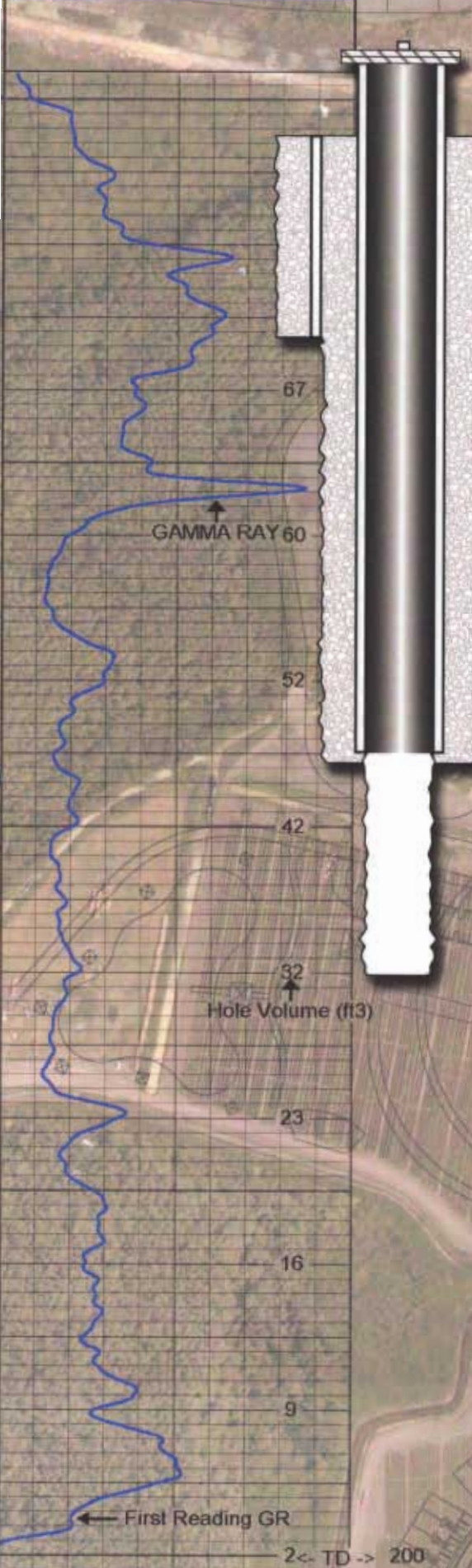
Groundwater in Collier County's aquifer systems are developed within a thick carbonate platform which overlies the Early Jurassic period (150 to 195 million years old) basement rocks. The sediments consist primarily of carbonates and Miocene-age siliciclastics. Sediments within this carbonate platform range in age from Early Jurassic to Recent. The aquifer systems in the Ave Maria project location are contained within sediments ranging in age from late Paleocene (55 million years old) to Holocene (Recent).

2.1 Surficial Aquifer System

The Surficial Aquifer System includes the Surficial aquifer and lower Tamiami aquifer. The hydrogeologic unit of importance at the project location is the lower Tamiami aquifer. The lower Tamiami aquifer is separated from the unconsolidated surficial deposits by a confining aquitard consisting of varying amounts of phosphatic clay. The surficial aquifer extends to approximately 30 feet below land surface (bls) near the project location. The confining unit that divides the surficial aquifer and the lower Tamiami aquifer begins at approximately 30 feet bls and is between 20 feet to 40 feet thick at the project site. The lower Tamiami aquifer underlies the confining unit described above, and has a vertical thickness of approximately 110 feet to 120 feet at the wellfield location. This aquifer yields moderate to large amounts of water. The lower Tamiami aquifer will supply the raw ground water for treatment at the Ave Maria water treatment facilities.

2.2 The Intermediate Aquifer System

The Intermediate Aquifer System separates the high quality water of the Surficial Aquifer System from the poorer water quality of the Floridan Aquifer System. Within this system is the sandstone, mid-Hawthorn and lower Hawthorn aquifers and the interbedded confining units. Only the upper Hawthorn confining unit of the Intermediate Aquifer System was penetrated at the project location. The confining unit underlays the lower Tamiami aquifer and consists of low permeability clays. At the wellfield location this unit extends from approximately 170 feet bls to beyond the penetrated depth of this investigation which terminated at 200 feet bls.



SECTION 3 WELL CONSTRUCTION

P-1

P-2

P-3

SECTION 3

Well Construction

This section describes the construction of Wells P-1, P-2, and P-3. Hydrogeologic testing and water quality results are discussed in Sections 4 and 5, respectively.

For the construction each well, surface casing was set at approximately 20 feet bls to stabilize the unconsolidated subsurface supporting the rig. An exploratory pilot hole was drilled to a depth of 200 feet bls at the first well (Well P-3) and the pilot hole was geophysically logged to evaluate the geology at the site. Based on the geophysical logs, the final casing setting depth and production interval was determined. The pilot hole was then backfilled and reamed to accommodate the 12-inch-diameter PVC casing. The production interval (open hole) of the well was then completed using reverse-air open circulation methods. For the construction of the remaining wells (Wells P-1 and P-2), a pilot hole was drilled to the approximate final casing depth. Geophysical logging was then completed to verify the final casing depth and the pilot hole was reamed to accommodate the final casing. The open hole portion of the well was then completed using reverse-air open circulation methods. Tabulated summaries of construction and testing activities and copies of the daily construction reports are presented in **Appendices B and C**, respectively.

Formation samples were collected at 10-foot intervals during the drilling of the pilot holes. Data from the pilot hole formation samples (drill cuttings) and from geophysical logging were evaluated to provide geologic and hydrogeologic information (which were used to assist in the selection of the casing setting depths). Lithologic descriptions of the formation samples collected during construction of wells are presented in **Appendix D**.

The final depth of the open hole interval was determined from data collected during reverse-air specific capacity and water quality testing during drilling of the open hole. The following sections summarize the construction and testing results of the individual production wells.

3.1 Well Construction

3.1.1 Well P-1 Construction Summary

Construction of Well P-1 began on August 31, 2004 and ended on September 28, 2004, with the completion of a variable rate pumping test. Well P-1 was completed with 20-inch-diameter steel surface casing, and 12-inch-diameter SDR 17 PVC final casing. **Table 3-1** provides a summary of the casing depths and the quantities of cement used during casing installation. A completion diagram of Well P-1 is provided in **Figure 3-1**.

Construction of Well P-1 began with an 8-inch-diameter pilot hole drilled by mud-rotary to a depth of 20 feet bls. The pilot hole was reamed to a nominal 25-inch-diameter to a depth of 20 feet bls and 20 feet of 20-inch-diameter, 0.375-inch thick wall steel casing was installed to stabilize the subsurface supporting the rig. The annular space between the borehole and outside of the steel casing was grouted to land surface with neat cement.

Following installation of the steel surface casing, an 8-inch-diameter pilot hole was mud-rotary drilled to a depth of 64 feet bls. Geophysical logging was performed on the pilot hole including caliper, natural gamma radiation, dual induction, and spontaneous potential logs. The pilot hole was reamed to a nominal 19-inch-diameter to 62 feet bls. The final 12-inch-diameter PVC casing was then installed to a depth of 61 feet bls and its annular space grouted to land surface.

Following final casing installation, an 11-inch-diameter borehole was then reverse-air drilled to approximately 83 feet bls. Airlift specific capacity tests were conducted at depths of 75 feet and 83 feet bls. Pilot hole water samples were also collected at the 75 feet and 83 feet bls during the airlift specific capacity testing and measured for conductivity. On September 10, 2004, the well was air developed using a single line air pumping system and utilizing the casing/borehole as the eductor line, to remove any loose or potentially loose formation material.

A final geophysical logging event was then conducted including caliper, natural gamma radiation, spontaneous potential, dual induction, fluid temperature, fluid resistivity, and flowmeter logs. Fluid temperature, fluid resistivity, and flowmeter logs were conducted under static and dynamic (pumping at 450 gpm) conditions.

A pump was installed and a variable rate pumping test was initiated on September 21, 2004. The pumping test included the collection pumping water levels, flow rates, and recovery water level data. It also included the collection of water samples for field and laboratory analysis. During the pumping test, the well was monitored for sand production. No sand was produced from the well at pumping rates up to 1,190 gpm.

Well P-1 was completed aboveground with a 12-inch-diameter blind flange with a bolted steel plate. Four cement posts were installed around the perimeter of the well to protect it during future construction activities. A summary of construction and testing activities and a copy of the daily construction reports are presented in **Appendices B and C**, respectively.

TABLE 3-1

Well P-1 Summary of Casing Setting Depths and Cement Quantities

Wellfield Completion Report for the Town of Ave Maria - Wells P-1 through P-3

Casing	Casing Material	Casing OD (inch)	Casing ID (inch)	Casing Thickness (inch)	Casing Depth (ft bls)	Date	Cement Stage	Type of Cement	Quantity of Cement (cu ft)
Surface	Steel	20.00	19.25	0.375	20	31 Aug 04	#1	Neat	35
Remarks: Tremied into annulus from 20 feet bls									
Total cubic feet:									35
Final	PVC	12.75	11.25	.0750	60	8 Sep 04	#1	Neat	53
<i>(Certain-Teed SDR-17)</i>									
Remarks: Pressure grout from bottom of casing									
						9 Sep 04	#2	Neat	6
Remarks: Tremied into annulus from 11 feet bls									
Total cubic feet:									59
Total cubic feet:									94

Target slurry volumes per sack: neat = 1.18 cu ft/ft

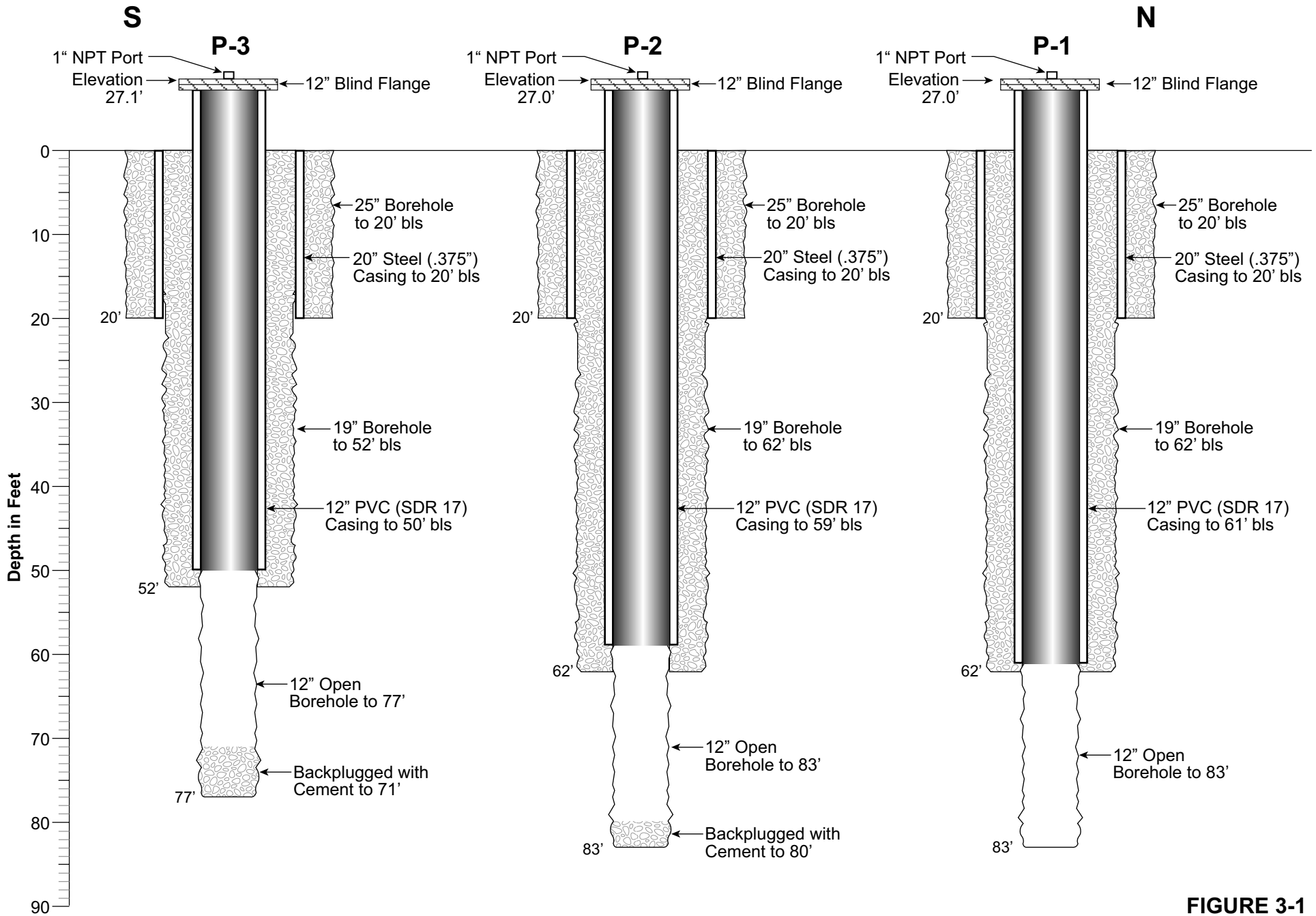


FIGURE 3-1

Well Construction Details

Wellfield Completion Report for the Town of Ave Maria - Wells P-1 through P-3

3.1.2 Well P-2 Construction Summary

Construction of Well P-2 began on August 19, 2004 and ended on September 28, 2004, with the completion of a variable rate pumping test. Well P-2 was completed with 20-inch-diameter steel surface casing, and 12-inch-diameter SDR 17 PVC final casing. **Table 3-2** provides a summary of the casing depths and quantities of cement used during casing installation. A completion diagram of Well P-2 is provided in **Figure 3-2**.

TABLE 3-2

Well P-2 Summary of Casing Setting Depths and Cement Quantities

Wellfield Completion Report for the Town of Ave Maria - Wells P-1 through P-3

Casing	Casing Material	Casing OD (inch)	Casing ID (inch)	Casing Thickness (inch)	Casing Depth (ft bls)	Date	Cement Stage	Type of Cement	Quantity of Cement (cu ft)
Surface	Steel	20.00	19.25	0.375	20	20 Aug 04	#1	Neat	35
Remarks: Tremied into annulus from 20 feet bls									
Total cubic feet:									35
Final	PVC (Certain-Teed SDR-17)	12.75	11.25	0.750	59	24 Aug 04	#1	Neat	65
Remarks: Pressure grout from bottom of casing									
						25 Aug 04	#2	Neat	8
Remarks: Tremied into annulus from 10 feet bls									
Total cubic feet:									73
Total cubic feet:									108

Target slurry volumes per sack: neat = 1.18 cu ft/ft

Construction of Well P-2 began with an 8-inch-diameter pilot hole drilled by mud-rotary to a depth of 20 feet bls. The pilot hole was reamed to a nominal 25-inch-diameter to a depth of 20 feet bls and 20 feet of 20-inch-diameter, 0.375-inch thick wall steel casing was installed to stabilize the subsurface supporting the rig. The annular space between the borehole and outside of the steel casing was grouted to land surface with neat cement.

Following installation of the steel surface casing, an 8-inch-diameter pilot hole was mud-rotary drilled to a depth of 62 feet bls. Geophysical logging was then conducted on the pilot hole including caliper, natural gamma radiation, dual induction, and spontaneous potential logs. The pilot hole was reamed to a nominal 19-inch-diameter to 62 feet bls. The final 12-inch-diameter PVC casing was installed to a depth of 59 feet bls and its annular space grouted to land surface.

The 11-inch-diameter open borehole was then reverse-air drilled to approximately 83 feet bls. Airlift specific capacity tests were conducted at approximately 70 feet and 83 feet bls. Pilot hole water samples were also collected at the 70 feet and 83 feet bls during specific capacity testing for field conductivity measurements. At a depth of approximately 83 feet bls, a zone of unconsolidated quartz sand was encountered. On August 25, 2004, the borehole was back-plugged with neat cement to 80 feet bls to isolate the sand zone at the bottom of the borehole. The well was then air developed using a single line air pumping system and utilizing the casing/borehole as the eductor line. The purpose of development was to verify that no sand was being produced from the well and to remove any type of loose or potentially loose formation material from the borehole.

A final set of geophysical logs were completed including caliper, natural gamma radiation, spontaneous potential, dual induction, fluid temperature, fluid resistivity, and flowmeter logs. Fluid temperature, fluid resistivity, and flowmeter logs were conducted under static and dynamic (pumping at 500 gpm) conditions. After the logging event, ambient background water quality samples were collected for field and laboratory analysis.

On September 24, 2004, a pump was installed and a variable rate pumping test was conducted. The pumping test included the collection pumping water level, flow rate, and recovery water level data. During the pumping test, the well was monitored for sand production. No sand was produced from the well at pumping rates up to 1,200 gpm.

The well was finished above ground with a 12-inch-diameter blind flange with a bolted steel plate. Four cement posts were installed around the perimeter of the well to protect it during future construction activities. A summary of construction and testing activities and a copy of the daily construction reports are presented in **Appendices B and C**, respectively.

3.1.3 Well P-3 Construction Summary

Construction of Well P-3 began on August 2, 2004 and ended on September 28, 2004, with the completion of a variable rate pumping test. Well P-3 was completed with 20-inch-diameter steel surface casing, and 12-inch-diameter SDR 17 PVC final casing. **Table 3-3** provides a summary of the casing depths and the quantities of cement used during casing installation. A completion diagram of Well P-3 is provided in **Figure 3-3**.

TABLE 3-3

Well P-3 Summary of Casing Setting Depths and Cement Quantities

Wellfield Completion Report for the Town of Ave Maria - Wells P-1 through P-3

Casing	Casing Material	Casing OD (inch)	Casing ID (inch)	Casing Thickness (inch)	Casing Depth (ft bls)	Date	Cement Stage	Type of Cement	Quantity of Cement (cu ft)
Surface	Steel	20.00	19.25	0.375	20	20 Aug 04	#1	Neat	35
Remarks: Tremied into annulus from 20 feet bls									
Total cubic feet:									35
Final	PVC	12.75	11.25	0.750	50	11 Aug 04	#1	Neat	60
		<i>(Certain-Teed SDR-17)</i>		Remarks: Pressure grout from bottom of casing					
Total cubic feet:									60
Total cubic feet:									95

Target slurry volumes per sack: neat = 1.18 cu ft/ft

Construction of Well P-3 began with an 8-inch-diameter pilot hole drilled by mud-rotary to a depth of 20 feet bls. The pilot hole was reamed to a nominal 25-inch-diameter to a depth of 20 feet bls and 20 feet of 20-inch-diameter, 0.375-inch thick wall steel casing was installed to stabilize the subsurface supporting the rig. The annular space between the borehole and outside of the steel casing was grouted to land surface with neat cement.

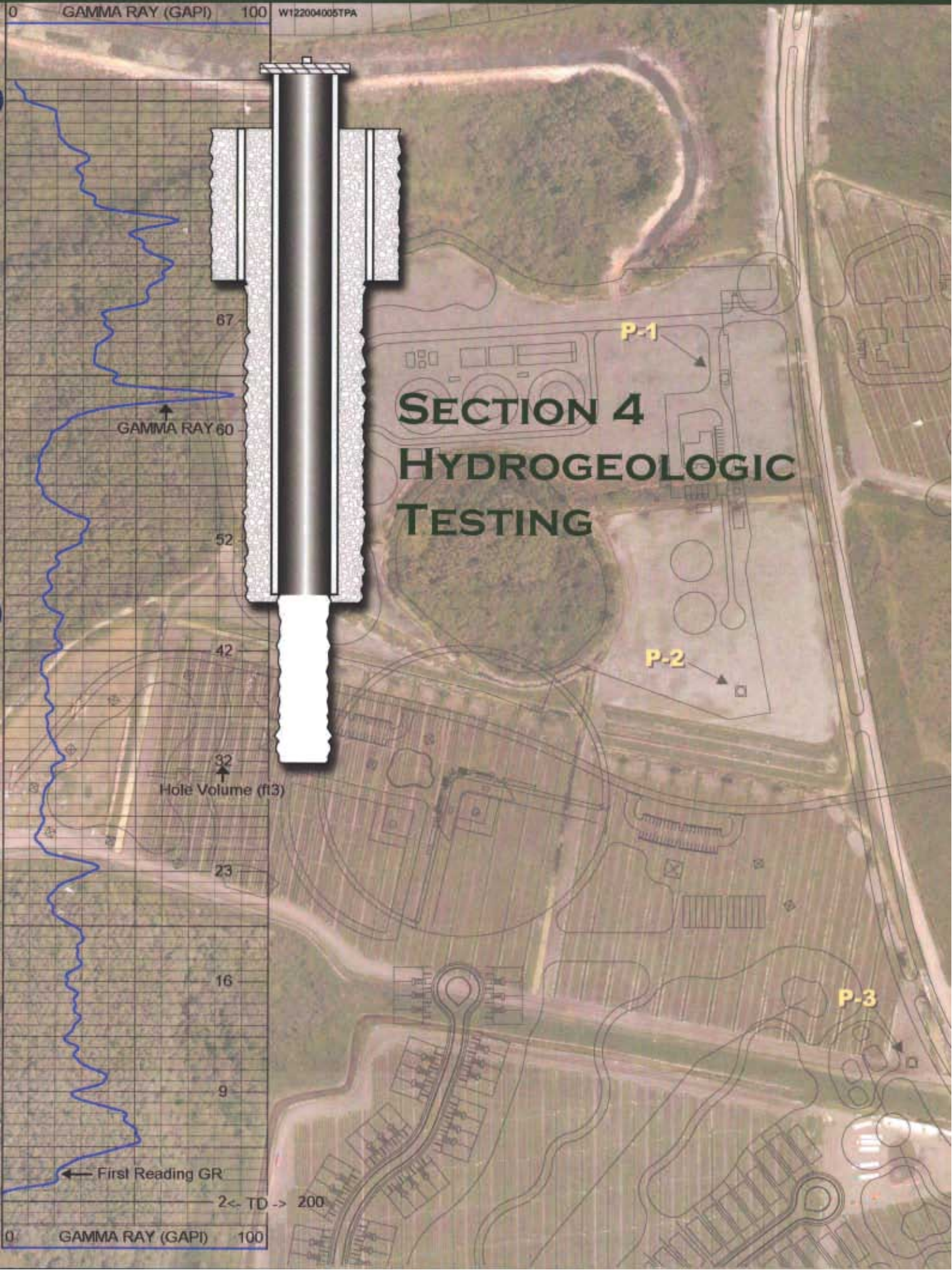
Following installation of the steel surface casing, an 8-inch-diameter pilot hole was mud-rotary drilled to a depth of 200 feet bls. Geophysical logging was performed on the pilot hole including caliper, natural gamma radiation, dual induction, and spontaneous potential logs. The pilot hole was then back-filled with approximately 60 cubic feet of gravel and capped with a 3-foot drillable cement bridge plug to a depth of 57 feet bls. The pilot hole was then reamed to a nominal 19-inch-diameter to 52 feet bls and 50 feet of 12-inch-diameter PVC casing was installed and pressure grouted into place with neat cement.

Following final casing installation, an 11-inch-diameter borehole was reverse-air drilled to approximately 77 feet bls. Airlift specific capacity tests were conducted at depths of 64 feet and 73 feet bls. Water samples were also collected during specific capacity testing for field conductivity measurements. At approximately 75 feet bls, unconsolidated quartz sand was encountered. Geophysical logging was conducted including caliper, natural gamma radiation, spontaneous potential, dual induction, fluid temperature, fluid resistivity, and flowmeter logs. Fluid temperature, fluid resistivity, and flowmeter logs were conducted under static and dynamic (pumping at 500 gpm) conditions. It was discovered that a large fracture existed at the bottom of the borehole consisting of unconsolidated sand. The borehole was then back-plugged with neat cement to a depth of 75 feet bls to seal the unconsolidated sand within the fracture.

During initial development activities, it became apparent that the well was still producing significant amounts of sand from the large fracture at the bottom of the borehole. To further isolate the sand zone, the borehole was backfilled with gravel and capped with neat cement to a final depth of 71 feet bls. The well was then air developed using a single line air pumping system and utilizing the casing/borehole as the eductor line. No sand was produced during air lift development of the well. A final video survey of the well was completed on September 14, 2004.

A pump was installed and a variable rate pumping test was initiated on September 24, 2004. The pump test included the collection of pumping water levels, flow rates, and recovery water level data. Prior to initiating the pumping test, background water quality samples were collected on September 22, 2004 for field and laboratory analysis. During the pumping test, the well was monitored for sand production. No sand was produced from the well at pumping rates up to 910 gpm.

The well was finished aboveground with a 12-inch-diameter blind flange with a bolted steel plate. Four cement posts were installed around the perimeter of the well to protect it during future construction activities. A summary of construction and testing activities and a copy of the daily construction reports are presented in **Appendices B and C**, respectively.



SECTION 4 HYDROGEOLOGIC TESTING

P-1

P-2

P-3

GAMMA RAY 60

Hole Volume (ft3)

← First Reading GR

2 ← TD → 200

Hydrogeologic Testing

Hydrogeologic testing during the construction of the new production wells included the description of formation samples, reverse-air drilling specific capacity testing, water sampling, geophysical logging, and aquifer performance testing. Results of the hydrogeologic testing were used to determine the characteristics of the strata intercepted by the borehole, which, in turn, were used to determine the final designs of the wells. The results also characterized the regional hydrogeology which will be useful for planning future wellfield expansions.

4.1 Formation Sampling

Formation samples (drill cuttings) from the production wells were collected at 10-foot intervals from land surface to the total depth of the well and were characterized for rock type, color, consolidation and porosity. A summary of geologic formations and lithology encountered at each well can be found in **Table 4-1**. Detailed lithologic descriptions of the samples are provided in **Appendix D**.

4.2 Geophysical Logging

Geophysical logs were performed in the pilot hole intervals and the final open hole intervals of each well to correlate formation samples taken during drilling, to identify formation boundaries, and to obtain specific geologic and hydrogeologic data pertaining to the underground formations. These data were then used to assist in the selection of the casing setting depths. **Tables 4-2 through 4-4** provide a summary of geophysical logging conducted during well construction. Copies of the geophysical logs performed on each well are provided in **Appendix E**.

Borehole video logs were performed to the total depth of each well. These videos were performed to obtain additional physical data on the wells and to provide a visual record of the completed well. Copies of the video survey (provided as video tapes) performed on each well and the respective video survey summaries forms are provided in **Appendix F** (Volume III contains the video tapes).

The following subsections detail the geophysical logging results at each well location.

TABLE 4-1

Summary of Geologic Formations Encountered

Wellfield Completion Report for the Town of Ave Maria - Wells P-1 through P-3

Geologic Unit	Hydrologic Unit	Generalized Lithology	P-1	P-2	P-3
Undifferentiated	Water Table Aquifer	Sand, Limestone, Shell fragments	0-30	0-30	0-30
Tamiami Formation	Confining Zone	Clay, pale olive	30-64	30-56	30-56
Tamiami Formation	Lower Tamiami Aquifer	Limestone, sand, sandy clay, shell	64-?	56-?	56-170
Peace River Formation	Upper Hawthorn Confining Zone	Clay, greenish gray	-	-	170-?

? – Unknown Formation Contact

All numbers reference feet bls

4.2.1 Well P-1 Geophysical Logging

The first logging event was conducted in the mudded pilot hole to 64 feet bls. The logs performed included caliper, natural gamma radiation, dual induction, and spontaneous potential. Based on the gamma radiation signature and the formation samples, the base of the Tamiami aquifer was identified at approximately 64 feet bls. The caliper log did not identify any significant cavernous regions or fracturing that would inhibit the setting of casing at 61 feet bls. **Table 4-2** summarizes the geophysical logging conducted during construction of Well P-1.

TABLE 4-2

Well P-1 Geophysical Logging Activities

Wellfield Completion Report for the Town of Ave Maria - Wells P-1 through P-3

Logging Event	Date	Well Progress and Casing Depth	Geophysical Logs Conducted ¹	Purpose
1	September 1, 2004	8-inch Mudded Pilot Hole to 64 feet bls	C, GR, DI, SP	Determine Final Casing Setting Depth
2	September 14, 2004	12-inch Reverse-air Open Hole to 83 feet bls	C, GR, SP, DI, SFT, SFC, SF, DFT, DF, DFC, Video	Evaluate Hydrogeological Characteristics of Open Hole Interval, and Provide Visual Record of Completed Well

¹ Legend:

C – Caliper

GR - Natural Gamma Ray

SP - Spontaneous Potential

SFC – Static Fluid Conductivity

SFT - Static Fluid Temperature

SF – Static Flow

DI – Dual Induction

DFT – Dynamic Fluid Temperature

DFC – Dynamic Fluid Conductivity

DF – Dynamic Flow

The second and final logging event was conducted after the final casing was set and the 12-inch-diameter open hole was completed to 83 feet bls. The logs were conducted in the open borehole full of formation water and included caliper, natural gamma radiation, dual induction, spontaneous potential, fluid conductivity, fluid temperature, flow, and video. The purpose of the logging event was to characterize the hydrogeological conditions of the well site and to provide well performance and water quality data of open hole interval. Caliper logs indicate a generally gauged borehole with a small opening or fracture at approximately 64 feet bls. Natural gamma radiation logs suggest a lithology consistent with regional geology. The fluid conductivity log indicates water quality to be relatively fresh throughout the entire open hole interval with a conductivity recorded to be approximately 690 $\mu\text{S}/\text{cm}$. At a pumping rate of 450 gpm, the flow log suggests that the majority of the flow from the well is generated within the interval from 83 feet bls (total depth) to approximately 70 feet bls.

4.2.2 Well P-2 Geophysical Logging

The first logging event was conducted in the mudded pilot hole to 62 feet bls. The logs included caliper, natural gamma radiation, dual induction, and spontaneous potential. Based on the gamma radiation signature and the formation samples, the base of the Tamiami aquifer was identified at approximately 56 feet bls. The caliper log did not identify any significant cavernous regions or fracturing that would inhibit the setting of casing at 59

feet bls. **Table 4-3** summarizes the geophysical logging conducted during construction of Well P-2.

TABLE 4-3
Well P-2 Geophysical Logging Activities
Wellfield Completion Report for the Town of Ave Maria - Wells P-1 through P-3

Logging Event	Date	Well Progress and Casing Depth	Geophysical Logs Conducted ¹	Purpose
1	August 23, 2004	8-inch Mudded Pilot Hole to 62 feet bls	C, GR, DI, SP	Determine Final Casing Setting Depth
2	August 27, 2004	12-inch Reverse-air Open Hole to 80 feet bls	C, GR, SP, DI, SFT, SFC, SF, DFT, DF, DFC, Video	Evaluate Hydrogeological Characteristics of Open Hole Interval, and Provide Visual Record of Completed Well

¹ Legend:

C – Caliper	SF – Static Flow
GR - Natural Gamma Ray	DI – Dual Induction
SP - Spontaneous Potential	DFT – Dynamic Fluid Temperature
SFC – Static Fluid Conductivity	DFR – Dynamic Fluid Conductivity
SFT - Static Fluid Temperature	DF – Dynamic Flow

The second and final logging event was conducted after the final casing was set and the 12-inch-diameter open hole was completed to 80 feet bls. The logs were conducted in the open borehole full of formation water and included caliper, natural gamma radiation, dual induction, spontaneous potential, fluid conductivity, fluid temperature, flow, and video. The purpose of the logging event was to characterize the hydrogeological conditions of the well site and to provide well performance and water quality data of open hole interval. Caliper logs indicate a vuggy borehole with no noticeable fractures. Natural gamma radiation logs suggest a lithology consistent with regional geology. The fluid conductivity log indicates water quality to be relatively fresh throughout the entire open hole interval with a conductivity of 670 $\mu\text{S}/\text{cm}$. At approximately 75 feet bls both the static and dynamic fluid conductivity log indicate a slight freshening of water quality as conductivity decreases from approximately 675 $\mu\text{S}/\text{cm}$ to 615 $\mu\text{S}/\text{cm}$. This is supported by a shift in the temperature log at the same interval. At a pumping rate of approximately 500 gpm, the flow log suggests that the production generated from the borehole increases linearly from the bottom of the borehole to the base of the casing.

4.2.3 Well P-3 Geophysical Logging

The first logging event was conducted in the mudded pilot hole to 200 feet bls. The logs included caliper, natural gamma radiation, dual induction, and spontaneous potential. Based on the gamma radiation signature and the formation samples, the base of the Tamiami aquifer was identified at approximately 55 feet bls and extended to approximately 170 feet bls. The caliper log did not identify any significant cavernous regions or fracturing that would inhibit the setting of casing at 50 feet bls. **Table 4-4** summarizes the geophysical logging conducted during construction of Well P-3.

TABLE 4-4
Well P-3 Geophysical Logging Activities
Wellfield Completion Report for the Town of Ave Maria - Wells P-1 through P-3

Logging Event	Date	Well Progress and Casing Depth	Geophysical Logs Conducted ¹	Purpose
1	August 5, 2004	8-inch Mudded Pilot Hole to 200 feet bls	C, GR, DI, SP	Evaluate Tamiami and Upper Peace River Formations; Determine Final Casing Setting Depth
2	August 18, 2004	12-inch Reverse-air Open Hole to 77 feet bls	C, GR, SP, DI, SFT, SFC, SF, DFT, DF, DFC	Evaluate Hydrogeological Characteristics of Open Hole Interval
3	September 14, 2004	12-inch Reverse-air Open Hole to 77 feet bls	Video	Provide Visual Record of Completed Well

¹ Legend:

C – Caliper
GR - Natural Gamma Ray
SP - Spontaneous Potential
SFR – Static Fluid Conductivity
SFT - Static Fluid Temperature

SF – Static Flow
DI – Dual Induction
DFT – Dynamic Fluid Temperature
DFR – Dynamic Fluid Conductivity
DF – Dynamic Flow

The second and final logging event was conducted after the 12-inch-diameter open hole was completed to 77 feet bls and prior to back-plugging with cement to 71 feet bls. The logs were conducted in the open borehole full of formation water and included caliper, natural gamma radiation, dual induction, spontaneous potential, fluid conductivity, fluid temperature, flow. The video log was completed September 14, 2004 after back-plugging and further development of the well. The purpose of the final logging event was to characterize the hydrogeological conditions of the well site and to provide well performance and water quality data of open hole interval. Caliper logs indicate a fracture at 75 feet bls that was producing large amounts of sand during development. Natural gamma radiation logs suggest a lithology consistent with regional geology. The fluid conductivity log indicates water quality to be relatively fresh throughout the entire open hole interval with a conductivity of approximately 720 $\mu\text{S}/\text{cm}$. At a pumping rate of approximately 1,050 gpm, the flow log suggests that the majority of the production generated from the borehole is from the fracture at 75 feet bls. The flow log, however, indicated an adequate amount of flow generated above the fracture; subsequently, the borehole was backplugged to 71 feet bls to eliminate the sand produced from the fractured interval.

4.2.4 Video Logging

Borehole video logs were performed on the production well pilot holes to the total depth of each well. These videos were performed to obtain additional physical (visual) data on the wells. Brief summaries of each of the videos surveys are provided in **Appendix F.1**.

4.3 Reverse-Air Drilling Specific Capacity Tests

The specific capacity of a well is defined as the rate of discharge per unit of drawdown. It is expressed as gallons per minute per foot of drawdown (gpm/ft).

Reverse-air specific capacity tests were conducted at two select intervals during reverse-air drilling of the open hole to evaluate the hydraulic characteristics of the well as the borehole was being advanced. Each test was conducted for approximately 15 minutes, during which time formation water was removed from the well at a known rate and a measurement of the associated drawdown was recorded to provide data for specific capacity calculations. Water was removed from the well by reverse-air method and flow was determined by volume calculations versus time. The rate of reverse-air flow ranged from 80 gpm to 120 gpm. **Tables 4-5** provides a summary of the reverse-air specific capacity data from each of the production wells.

4.3.1 Well P-1 Reverse-Air Specific Capacity Testing

Specific capacity testing at Well P-1 was conducted twice during advancement of the open hole at depths of 75 feet bls and at 83 feet bls (total depth). Specific capacity measured at 75 feet bls was 66 gpm/ft. Final specific capacity recorded at 83 feet bls was 90 gpm/ft, an increase of approximately 36 percent. A summary of the reverse-air specific capacity results can be found in **Table 4-5**.

TABLE 4-5
Reverse-Air Drilling Specific Capacity Data for Wells P-1 through P-3
Wellfield Completion Report for the Town of Ave Maria - Wells P-1 through P-3

Well	Depth (feet bls)	Flow Rate (gpm)	Drawdown (feet)	Specific Capacity (gpm/ft)
P-1	75	86	1.30	66.15
	83	95	1.05	90.48
P-2	70	120	2.15	55.81
	83	120	1.46	82.19
P-3	64	80	2.31	34.63
	73	90	2.11	42.65

4.3.2 Well P-2 Reverse-Air Specific Capacity Testing

Testing at Well P-2 was conducted at 70 feet bls and 83 feet bls, resulting in specific capacities of 56 gpm/ft and 82 gpm/ft, respectively. The large increase in specific capacity between 70 feet bls and 83 feet bls indicates significant production from the bottom portion of the borehole. A summary of the specific capacity testing results is provided in **Table 4-5**.

4.3.3 Well P-3 Reverse-Air Specific Capacity Testing

Well P-3 was the least productive well of the three production wells. Testing was performed when the borehole reached 64 feet bls and at the bottom of the borehole at 73 feet bls with specific capacity calculated to be 35 gpm/ft and 43 gpm/ft respectively. Results of specific capacity testing at P-3 is summarized in **Table 4-5**.

4.4 Variable Rate Step Drawdown Testing

Variable Rate Step Drawdown tests were conducted on Wells P-1 through P-3 and involved pumping the wells at four distinct rates and measuring the associated drawdown. The

duration of the first step was approximately 2 hours. The final three steps varied between 1 and 2 hours in duration. The purpose of pumping tests was to calculate the specific capacity of each well, and to evaluate the hydraulic characteristics and water quality of the lower Tamiami aquifer. A summary of the specific capacity results for each well is provided in **Table 4-6**.

TABLE 4-6
Summary of Variable Rate Step Test Specific Capacity Results
Wellfield Completion Report for the Town of Ave Maria - Wells P-1 through P-3

Well	Step	Flow rate (gpm)	Test Duration (hours)	Drawdown (feet)	Specific Capacity (gpm/ft)
P-1	1	550	1.9	11.0	50.0
	2	750	1.1	18.5	40.5
	3	1,020	1.1	27.7	36.8
	4	1,190	1.1	34.5	34.5
P-2	1	500	2.1	8.8	56.8
	2	750	1.0	16.2	46.3
	3	1,000	1.0	22.9	43.7
	4	1,220	2.1	31.3	39.0
P-3	1	500	2.1	12.9	38.8
	2	660	1.0	21.6	30.6
	3	750	1.0	25.3	29.6
	4	910	2.1	32.8	27.7

Each pumping test on Wells P-1 through P-3 included the collection of background water levels, pumping drawdown and flow data, and recovery water level data. It also includes the collection of water samples for analysis as discussed in Section 6. *In-Situ Minitroll* pressure transducer/data loggers were used in all wells during pumping and recovery periods. Well pumping rates were measured using a 6-inch by 8-inch orifice plate.

Well drawdown data from each pumping test were analyzed to determine the transmissivity (T) of the penetrated aquifer. Transmissivity is a measure of the capacity of an aquifer to transmit water and is defined as the amount of water that can flow through a vertical section of an aquifer of a certain width extending the full saturated height of the aquifer under a certain hydraulic gradient. Transmissivity is expressed in square feet per day (ft²/day) and gallons per day per foot (gpd/ft).

Two analysis methods were used to calculate transmissivity. The Theis recovery straight line method was used to calculate aquifer transmissivity from the recovery data. The Eden and Hazel multiple step drawdown method was used to calculate transmissivity using data from each step of the variable rate pumping test. The analysis was performed using *Aquifer Win 32* software by Environmental Simulations, Inc. Only data from the pump wells were used for aquifer analysis. After review of the data from the observation wells it was determined that the distance of the observation wells from the pumped well was too great and the pumping duration too short, prohibiting the observation wells from approaching

steady state conditions adequate for aquifer analysis. A discussion of each pumping test and the methods used to analyze the data is provided below. Results from the test analyses along with the analyses plots are presented in **Appendix G**. Water level data during pumping and recovery periods for each of the pumping tests are provided in **Appendix H**.

4.4.1 Well P-1 Variable Rate Step Test

On September 21, 2004, a variable rate pumping test of Well P-1 began. The well was pumped at four distinct rates of 550 gpm, 750 gpm, 1,020 gpm, and 1,190 gpm. The static water level before pumping began was 7.6 feet bls. The pumping duration for step 1 was 1.9 hours, and the remaining steps were approximately 1.1 hours each. Final specific capacities from each step are summarized in **Table 4-6**. After pumping was terminated, the water level in the well was allowed to recover to static conditions.

Water levels were also recorded at Wells P-2 and P-3 during pumping and recovery. Well P-2 is located approximately 760 feet to the south of Well P-1 and Well P-3 is located approximately 1700 feet to the south of Well P-1. A plot of the water level data from the pumped well and each observation well during the testing period is presented in **Figure 4-1**. Tabulated data from the pumping test is presented in **Appendix H**.

Pumping and recovery data from the Well P-1 were analyzed using Eden Hazel step test and Theis recovery methods to calculate transmissivity. Using the Theis Recovery method, an aquifer transmissivity of 33,790 ft²/day (252,749 gpd/ft) was determined. The Eden and Hazel multiple step drawdown method calculated a transmissivity of 62,920 ft²/day (470,642 gpd/ft). The average transmissivity from the two methods is 48,355 ft²/day or 361,695 gpd/ft.

Test analyses plots and tabulated drawdown versus time data are presented in **Appendix G and Appendix H**, respectively. A summary of test analyses results for Well P-1 is provided in **Table 4-7**.

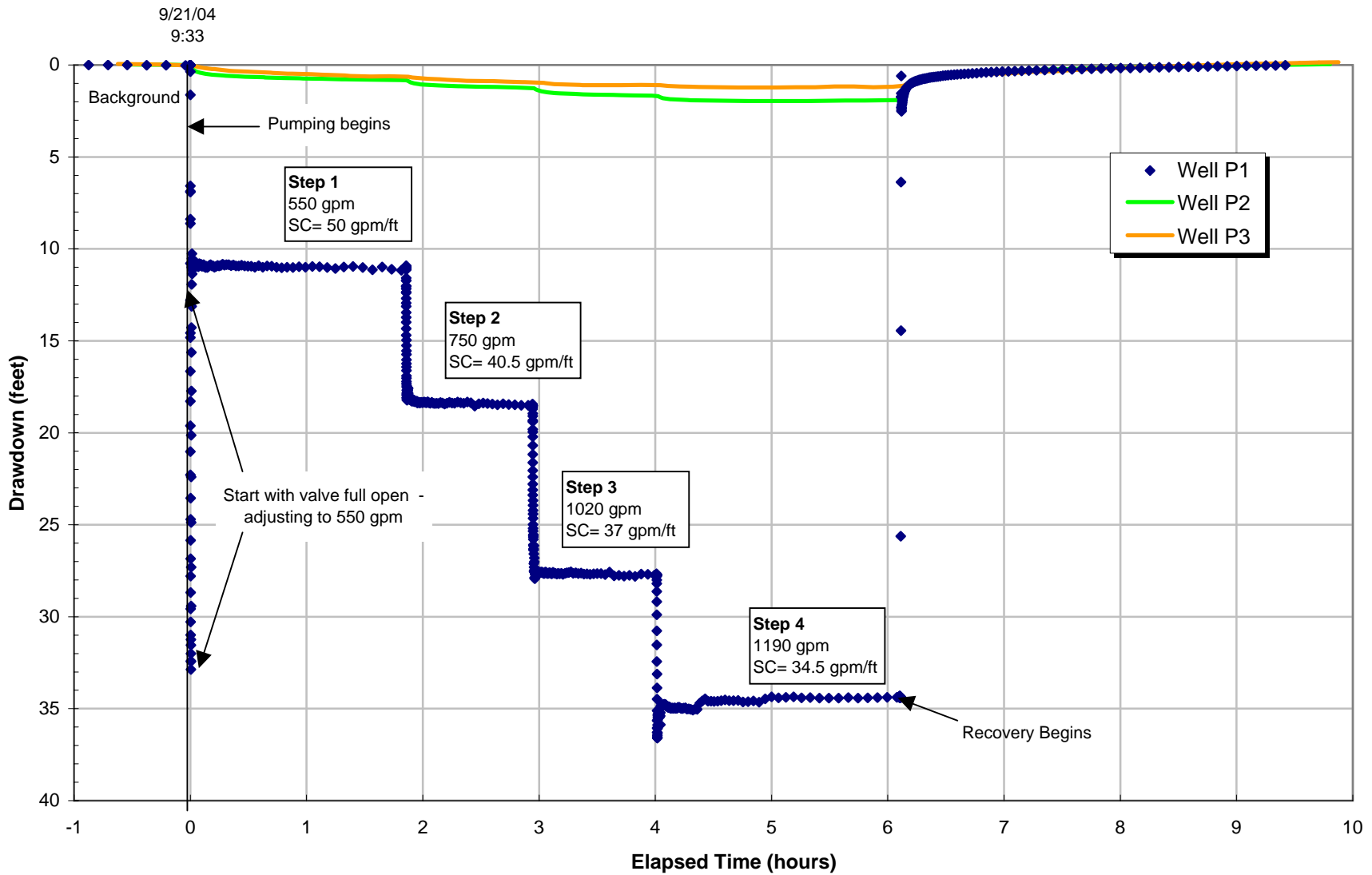


Figure 4-1

Well P-1 Variable Rate Pumping Test

Wellfield Completion Report for the Town of Ave Maria - Wells P-1 through P-3



Table 4-7

Summary of Aquifer Analysis Results

Wellfield Completion Report for the Town of Ave Maria - Wells P-1 through P-3

Pumping Well	Discharge (gpm)	Test Duration (hours)	Drawdown (feet)	Specific Capacity (gpm/ft)	Transmissivity (gpd/ft)	Transmissivity (ft ² /d)	Analysis Method
P-1	550	1.9	11.0	50	-	-	-
	750	1.1	18.5	41	-	-	-
	1020	1.1	27.7	37	-	-	-
	1190	1.1	34.5	34	470,642	62,920	Eden Hazel
					252,749	33,790	Theis Recovery
				Avg	361,695	48,355	
P-2	500	2.1	8.8	57	-	-	-
	750	1.0	16.2	46	-	-	-
	1000	1.0	22.9	44	-	-	-
	1220	2.1	31.3	39	484,487	64,771	Eden Hazel
					303,666	40,597	Theis Recovery
				Avg	394,076	52,684	
P-3	500	2.1	12.9	39	-	-	-
	660	1.0	21.6	31	-	-	-
	750	1.0	25.3	30	-	-	-
	910	2.1	32.8	28	-	-	-
					204,585	27,351	Theis Recovery
				Avg	204,585	27,351	
Overall Average					343,226	45,886	

Theis Recovery - Theis & Jacob straight line method

Eden and Hazel - multiple step drawdown analysis

gpm gallons per minute

ft²/d square feet per day

gpd/ft gallons per day per foot

All analysis derived from electronic data

4.4.2 Well P-2 Variable Rate Step Test

A variable rate pumping test of Well P-2 was conducted on September 24, 2004. The well was pumped in four steps at rates of 500 gpm, 750 gpm, 1,000 gpm, and 1,220 gpm. The static water level prior to the test was approximately 10.0 feet bls. The pumping duration for step 1 and step 4 was 2.1 hours, the duration of step 2 and step 3 was 1 hour. A summary of the specific capacities from the variable rate testing is shown in **Table 4-6**. After pumping was terminated, the water level in the well was recorded until near static conditions returned in Well P-2.

Water levels were also recorded at Wells P-1 and P-3 during pumping and recovery. Well P-1 is located approximately 760 feet to the north of Well P-2 and Well P-3 is located approximately 990 feet to the south of Well P-2. A plot of the water level data from the pumped well and each observation well during the testing period is presented in **Figure 4-2**. Tabulated data from the pumping test is presented in **Appendix H**.

Pumping and recovery data from the Well P-2 were analyzed using Eden Hazel step test and Theis recovery methods to calculate transmissivity. Using the Theis Recovery method, an aquifer transmissivity of 40,597 ft²/day (303,666 gpd/ft) was determined. The Eden and Hazel multiple step drawdown method calculated a transmissivity of 64,771 ft²/day (484,487 gpd/ft). The average transmissivity from the two methods is 52,684 ft²/day or 394,076 gpd/ft.

A summary of test analyses results for Well P-2 is provided in **Table 4-7**. Test analyses plots and tabulated drawdown versus time data are presented in **Appendix G and Appendix H**, respectively.

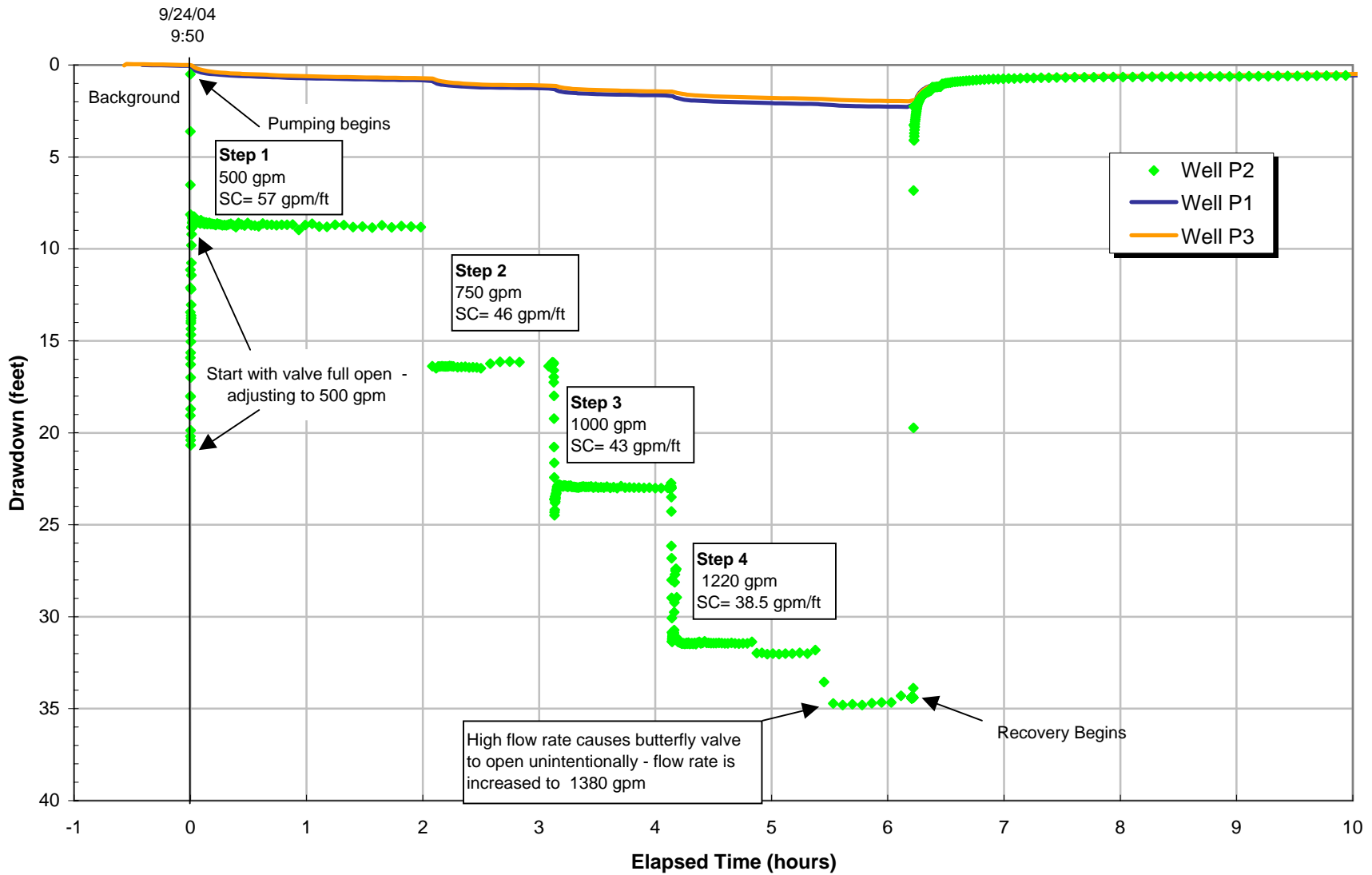


Figure 4-2
Well P-2 Variable Rate Pumping Test
Wellfield Completion Report for the Town of Ave Maria - Wells P-1 through P-3

4.4.3 Well P-3 Variable Rate Step Test

On September 23, 2004, a variable rate pumping test of Well P-3 was conducted. The well was pumped in four steps at rates of 500 gpm, 660 gpm, 750 gpm, and 910 gpm. The static water level before pumping began was approximately 7.1 feet bls. The pumping duration for step 1 and step 4 was approximately 2.1 hours; the duration of step 2 and step 3 was approximately 1 hour. During step 2 of the pumping test, the transducer stopped responding. The remaining data was collected manually with a tape water level meter. Prior to beginning the recovery portion of the test, however, the transducer resumed taking readings, thus, the data for the recovery period was recorded on the data logger system. Final specific capacities from each step are summarized in **Table 4-6**. After pumping was terminated, the water level in the well was allowed to recover to static conditions.

Water levels were also recorded at Wells P-1 and P-2 during pumping and recovery periods. Well P-1 is located approximately 1,700 feet to the north of Well P-3 and Well P-2 is located approximately 990 feet to the north of Well P-3. A plot of the water level data from the pumped well and each observation well during the testing period is presented in **Figure 4-3**. Tabulated drawdown data is presented in **Appendix H**.

Pumping and recovery data from the Well P-3 were analyzed by the Theis recovery method to calculate transmissivity. An aquifer transmissivity of 27,351 ft²/day (204,585 gpd/ft) was determined using this method. The Eden and Hazel multiple step drawdown method was not used because of the limited data collected during step 2 through step 4, as discussed previously.

A summary of test analyses results for Well P-3 is provided in **Table 4-7**. Test analyses plots and tabulated drawdown versus time data are presented in **Appendix G and Appendix H**, respectively.

4.5 Summary of Calculated Aquifer Characteristics

Because of limitations in analyzing variable rate pumping tests, the data from the observation wells was not used to calculate transmissivity of the aquifer. Analysis of the pumping and recovery data from the pumped wells was analyzed using Theis recovery and Eden Hazel multiple step drawdown method. The average transmissivity of the aquifer, based on the pumping test analysis, is 45,886 ft²/day (343,226 gpd/ft). A summary of the calculated hydraulic transmissivities from the individual pumping tests are provided in **Table 4-7**. Test analyses plots and tabulated drawdown versus time data are presented in **Appendix G and Appendix H**, respectively.

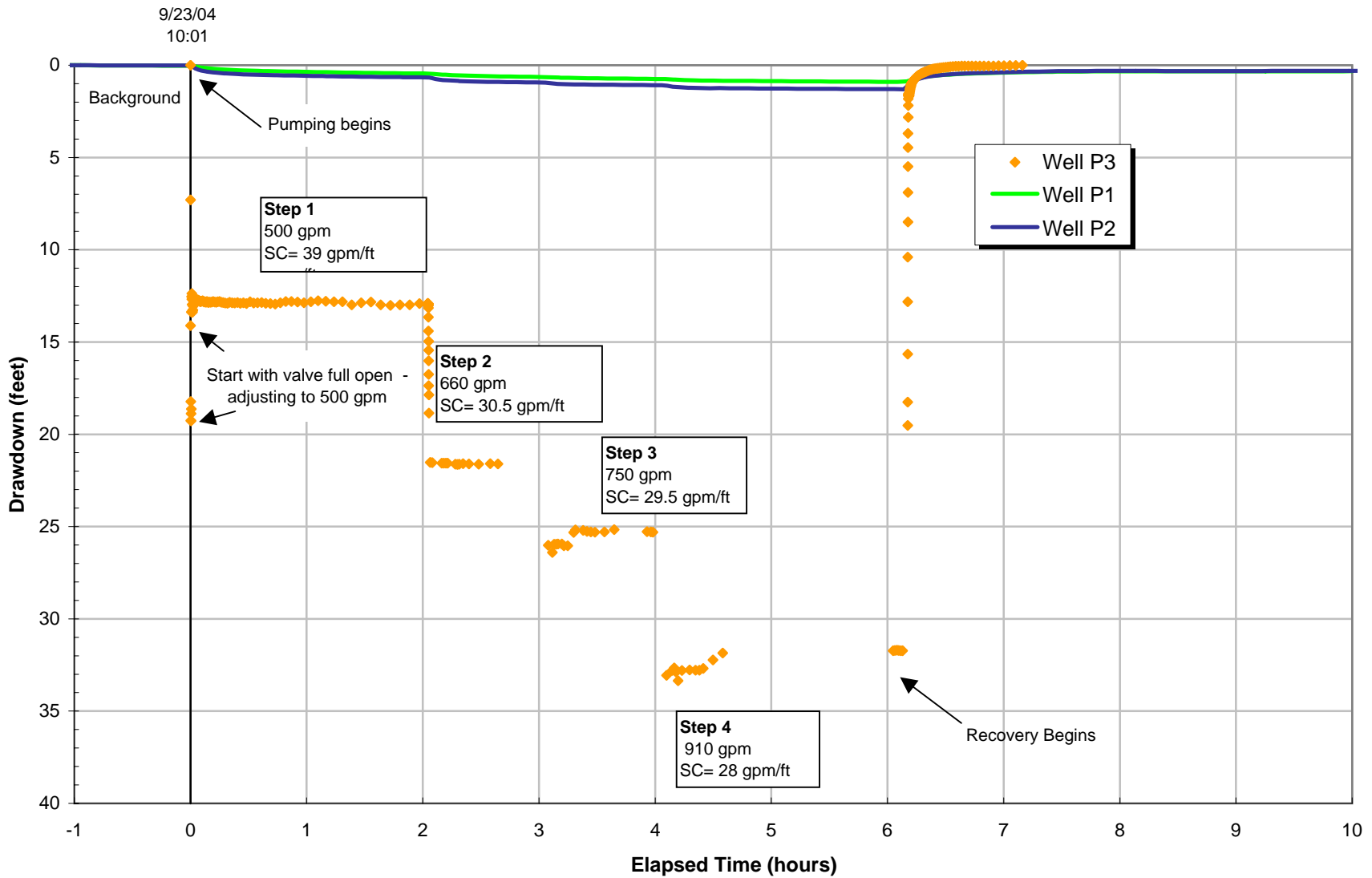


Figure 4-3

Well P-3 Variable Rate Pumping Test

Wellfield Completion Report for the Town of Ave Maria - Wells P-1 through P-3





SECTION 5 WATER QUALITY TESTING

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SECTION 5

Water Quality Testing

Water samples were collected during advancement of the open hole interval to provide data pertinent to decisions regarding the final subsurface design of the wells. Water samples were collected during reverse-air specific capacity testing to provide a generalized profile of water quality of the open hole interval with respect to depth. The samples were field analyzed for specific conductance. Open circulation reverse-air drilling techniques were used during the pilot hole drilling below the base of the 12-inch casing to the total depth of each well. Therefore, pilot hole water quality from each interval reflects a mixture of formation water from the open hole interval from the base of final casing to the depth at which drilling had reached during the time of sample collection. This provided relative water quality changes as the borehole was advanced. Water samples were collected at the end of specific capacity testing prior to each drill stem connection. **Table 5-1** summarizes field measured specific conductance water quality data from each production well.

TABLE 5-1
Summary of Reverse-Air Drilling Water Quality Sampling - Specific Conductance Results
Wellfield Completion Report for the Town of Ave Maria - Wells P-1 through P-3

Well	Depth (feet bls)	Specific Conductance (mg/L)
P-1	75	705
	83	703
P-2	70	751
	83	741
P-3	64	632
	73	630

Following completion of each well, water quality samples were collected and analyzed for primary and secondary drinking water standards. Water samples were collected and analyzed by Sanders Laboratories. Sampling was conducted after the wells were fully developed. At Well P-1, samples were collected during the variable rate pumping test. At Well P-2, sampling was completed after the final set of dynamic logs were completed. Water quality sampling at Well P-3 was conducted prior to the variable rate pumping test. A summary of the water quality results is presented in **Table 5-2** and is discussed in the sections below. The laboratory reports are found in **Appendix I**.

TABLE 5-2
 Background Water Quality Results Summary
 Wellfield Completion Report for the Town of Ave Maria - Wells P-1 through P-3

Well: P-1 P-2 P-3				
Sample Date: 09/21/2004 08/30/2004 09/22/2004				
State Primary Drinking Water Standards: Inorganic				
Analyte	MCL ^A (mg/L)	P-1	P-2	P-3
Antimony	0.006	<0.003	<0.003	<0.003
Arsenic	0.01	0.001	0.001	<0.001
Barium	2	0.012	0.008	0.016
Beryllium	0.004	<0.0001	<0.0001	<0.0001
Cadmium	0.005	<0.001	<0.001	<0.001
Chromium	0.1	<0.001	<0.001	<0.001
Cyanide	0.2	<0.005	<0.005	<0.005
Fluoride	4	0.20	0.21	0.20
Lead	0.015	<0.001	<0.001	<0.001
Mercury	0.002	<0.001	<0.001	<0.001
Nickel	0.1	0.002	<0.002	<0.002
Nitrate (as N)	10	<0.01	<0.01	<0.01
Nitrite (as N)	1	<0.01	<0.01	<0.01
Selenium	0.05	<0.001	0.001 ^C	<0.001
Sodium	160	28.3	28.3	24.0
Thallium	0.002	<0.002	<0.002	<0.002
State Primary Drinking Water Standards: Volatile Organics				
Analyte	MCL (µg/L)	P-1	P-2	P-3
1,1-Dichloroethene	7	<0.5	<0.5	<0.5
1,1,1-Trichloroethane	200	<0.3	<0.3	<0.3
1,1,2-Trichloroethane	5	<0.3	<0.3	<0.3
1,2-Dichloroethane	3	<0.2	<0.2	<0.2
1,2-Dichloropropane	5	<0.3	<0.3	<0.3
1,2,4-Trichlorobenzene	70	<0.5	<0.5	<0.5
Benzene	1	<0.5	<0.5	<0.5
Carbon Tetrachloride	3	<0.3	<0.3	<0.3
Cis-1,2-Dichloroethylene	70	<0.2	<0.2	<0.2
Dichloromethane (Methylene Chloride)	5	<0.5	<0.5	<0.5
Ethylbenzene	700	<0.5	<0.5	<0.5
Monochlorobenzene (Chlorobenzene)	100	<0.5	<0.5	<0.5
o-Dichlorobenzene (1,2-Dichlorobenzene)	600	<0.5	<0.5	<0.5
p-Dichlorobenzene (1,4-Dichlorobenzene)	75	<0.5	<0.5	<0.5
Styrene	100	<0.5	<0.5	<0.5
Tetrachloroethylene	3	<0.2	<0.2	<0.2
Toluene	1,000	<0.5	<0.5	<0.5
Trans-1,2-Dichloroethylene	100	<0.5	<0.5	<0.5
Trichloroethylene	3	<0.2	<0.2	<0.2
Vinyl Chloride	1	<0.5	<0.5	<0.5
Xylenes (Total)	10,000	<0.5	<0.5	<0.5
State Primary Drinking Water Standards: Pesticides and PCB's				
Analyte	MCL (µg/L)	P-1	P-2	P-3
2,4,5-TP (Silvex)	50	<0.25	<0.25	<0.25
2,4-D	70	<1	<1	<1
Alachlor	2	<0.2	<0.2	<0.2
Atrazine	3	<0.06	<0.06	<0.06
Benzo(a)pyrene	0.2	<0.1	<0.1	<0.1

TABLE 5-2

Background Water Quality Results Summary

Wellfield Completion Report for the Town of Ave Maria - Wells P-1 through P-3

Carbofuran	40	<0.5	<0.5	<0.5
Chlordane	2	<0.05	<0.05	<0.05
Dalapon	200	<1	<1	<1
Di(2-ethylhexyl)adipate	400	<0.3	<0.3	<0.3
Di(2-ethylhexyl)phthalate (bis(2-ethylhexyl)phthalate)	6	<1.0	<1.0	<1.0
Dibromochloropropane	0.2	<0.005	<0.005	<0.005
Dinoseb	7	<0.5	<0.5	<0.5
Diquat	20	<1	<1	<1
Endothall	100	<20	<20	<20
Endrin	2	<0.1	<0.1	<0.1
1,2-Dibromoethane (Ethylene Dibromide – EDB)	0.02	<0.005	<0.005	<0.005
Glyphosate (Roundup)	700	<10	<10	<10
Heptachlor	0.4	<0.08	<0.08	<0.08
Heptachlor Epoxide	0.2	<0.1	<0.1	<0.1
Hexachlorobenzene	1	<0.05	<0.05	<0.05
Hexachlorocyclopentadiene	50	<0.2	<0.2	<0.2
Lindane (G-BHC)	0.2	<0.06	<0.06	<0.06
Methoxychlor	40	<0.05	<0.05	<0.05
Oxamyl (Vydate)	200	<0.5	<0.5	<0.5
Pentachlorophenol	1	<0.1	<0.1	<0.1
Picloram	500	<0.75	<0.75	<0.75
Polychlorinated Biphenyl (PCB)	0.5	<0.2	<0.2	<0.2
Simazine	4	<0.07	<0.07	<0.07
Toxaphene	3	<0.5	<0.5	<0.5
State Primary Drinking Water Standards: Radionuclides				
Analyte	MCL (mg/L)	P-1	P-2	P-3
Radium 226	5 pCi/L ^B	2.6 +/- 0.1	0.7 +/- 0.3	0.5 +/- 0.07
Radium 228		1.2 +/- 0.2	<0.9 +/- 0.6	2.8 +/- 0.2
Gross Alpha	15 pCi/L	2.3 +/- 0.7	<1.7 +/- 1.0	3.7 +/- 0.6
State Secondary Drinking Water Standards				
Analyte	MCL (mg/L)	P-1	P-2	P-3
Aluminum	0.2	0.016	0.008	0.022
Chloride	250	45	28	35
Copper	1	0.001 ^{C,D}	0.001 ^C	0.001 ^C
Fluoride	2	0.20	0.21	0.20
Iron	0.3	0.259	<0.006	0.726
Manganese	0.05	0.009	0.003	0.008
Silver	0.1	<0.001 ^D	<0.001	<0.001 ^D
Sulfate	250	18	9	9
Zinc	5	0.005	<0.002	0.012
Color	15 PCU	75	32	90
Odor	3 TON	1	3	1
PH	6.5-8.5	6.58	7.28	6.07
Total Dissolved Solids (TDS)	500	432	352	392
Foaming Agents (MBAS)	0.5	0.053	<0.05	<0.05
Additional Membrane Specific Analytes				
Analyte	MCL (mg/L)	P-1	P-2	P-3
Calcium	--	88.6	89.9 ^D	84.3 ^D
Magnesium	--	17.8 ^D	12.8	10.5 ^D
Potassium	--	7.69 ^D	4.83 ^D	7.85 ^D

TABLE 5-2

Background Water Quality Results Summary

Wellfield Completion Report for the Town of Ave Maria - Wells P-1 through P-3

Ammonia	--	1.06	0.91	1.31
Strontium	--	0.23	0.24	0.21
Silica	--	21.8	15.6	26.5
Iron (dissolved) - field filtered	--	0.234	0.006	0.66
Iron (total)	--	0.259	0.006	0.726
Manganese (dissolved) - field filtered	--	0.009	0.003	0.008
Manganese (total)	--	0.009	0.003	0.008
Boron	--	0.065	0.068	0.064
Hydrogen Sulfide (field measured)	--	ND	ND	ND
Hydrogen Sulfide (lab measured)	--	<0.10	0.20	0.20
Total Organic Carbon	--	15	11	16
Total Phosphorous	--	0.09	0.072	0.067
Phosphate	--	0.07	0.048	0.052
Alkalinity	--	288	300	272
Specific Conductance $\mu\text{S}/\text{cm}$ (field)	--	704	616	662
Water Temperature $^{\circ}\text{C}$	--	25.0	27.0	25.6

Notes:

- A. Maximum Contaminant Level (MCL) per Rules 62-550.310, FAC.
- B. The MCL for Radium 226 and Radium 228 combined is 5 pCi/L
- C. The analyte was detected in both the sample and the associated blank method
- D. The reported value failed to meet established quality control criteria

Concentrations expressed in milligrams/liter (mg/L) or micrograms/liter ($\mu\text{g}/\text{L}$) unless otherwise indicated.

Total Trihalomethanes equal the sum of:

- Trichloromethane (chloroform)
- Dibromochloromethane
- Bromodichloromethane
- Tribromomethane (bromoform)

Abbreviations:

- pCi/L: Picocuries/liter
- MDL: Minimum Detection Limit
- MFL: Million Fibers/Liter > 10 μm .
- $\mu\text{g}/\text{L}$: Micrograms/Liter
- TON: Threshold Odor Number
- PCU: Color Units
- CFU: Colony Forming Units/100 mL
- ND: Non Detect

5.1 Well P-1 Water Quality

Specific conductance was measured twice during the advancement of the open hole, at 75 feet bls and 83 feet bls. Water quality remained constant as specific conductance was measured to be 705 $\mu\text{S}/\text{cm}$ and 703 $\mu\text{S}/\text{cm}$ at 75 feet and 83 feet bls, respectively. **Table 5-1** presents a summary of the reverse-air water sample results for P-1.

The native water from P-1 is fresh as anticipated from the lower Tamiami aquifer. The total dissolved solids (TDS) recorded at Well P-1 was 432 mg/L. No primary and secondary drinking water standards maximum contaminant limit (MCL) were exceeded with the exception of the secondary analyte color. A summary of the ambient background water quality results from Well P-1 is shown in **Table 5-2**.

5.2 Well P-2 Water Quality

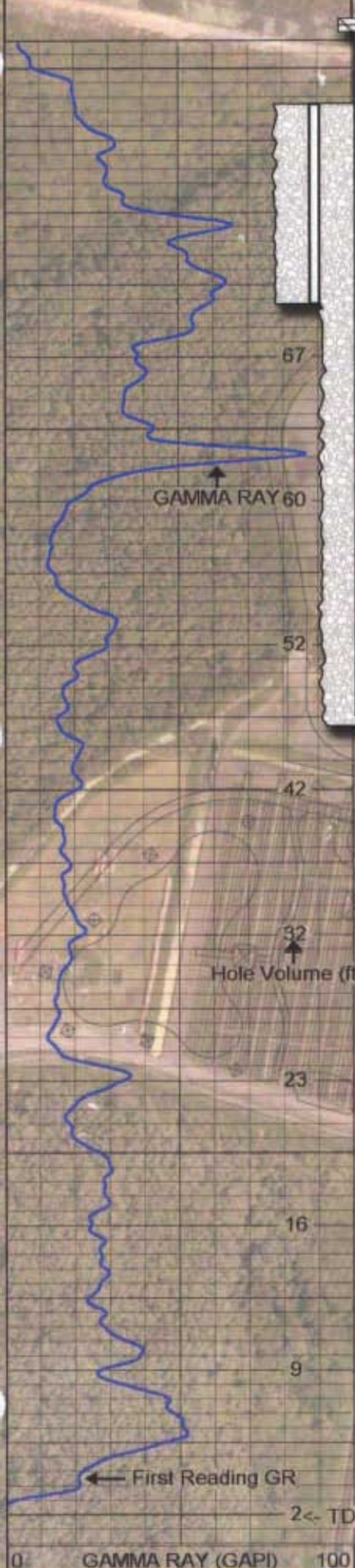
Water quality remained relatively constant during drilling of the pilot hole. Specific conductance measured at 70 feet and 83 feet bls was 751 and 741 $\mu\text{S}/\text{cm}$, respectively. **Table 5-1** presents a summary of pilot hole water sample results for P-2.

Water from Well P-2 is relatively fresh with a TDS value of 352 mg/L. No primary analyte exceeded the MCL standard. The only secondary analyte over the MCL standard was color. A summary of the ambient background water quality results from Well P-2 is shown in **Table 5-2**.

5.3 Well P-3 Water Quality

Specific conductance was measured during the advancement of the open hole at 64 feet bls and 73 feet bls. Water quality remained constant as specific conductance was measured to be 632 $\mu\text{S}/\text{cm}$ and 630 $\mu\text{S}/\text{cm}$ at 64 feet and 73 feet bls, respectively. **Table 5-1** presents a summary of the reverse-air water sample results for Well P-3.

Water generated from Well P-3 is of good quality. The salinity of the well in terms of TDS was 392 mg/L. No primary analyte exceeded the MCL standard. Two secondary analytes exceeded their respective MCL standard, pH and color. The field measured value for pH was 6.07, which is 0.43 below the MCL range (this low value is likely a result of sample error or equipment calibration error).



SECTION 6 SUMMARY AND RECOMMENDATIONS

P-1

P-2

P-3

Summary and Recommendations

6.1 Summary

This report has been prepared to document the drilling and testing of the Ave Maria Tamiami production wells, as well as to provide additional hydrogeological information of the region for potential future expansion of the wellfield.

Construction of each production well included two concentric casings, a 20-inch-diameter steel surface casing set at approximately 20 feet bls and a final 12-inch-diameter PVC casing set to depths ranging from 50 feet to 61 feet bls. The final completion depths ranged from 77 feet bls in Well P-3 to 83 feet bls in Well P-1.

The production zone of all the wells is completed into the lower Tamiami aquifer of the Surficial Aquifer System, and are confined from the water table aquifer (surficial aquifer) by a low permeability unit of clay.

Extensive hydrogeologic testing was conducted during construction of these wells. This testing included lithologic sampling, pilot hole water quality sampling, geophysical logging, air-lift specific capacity testing, pumping tests, and ambient background water quality testing. The hydrogeologic testing focused on identifying the productive interval of the lower Tamiami aquifer and determining if the water quality was compatible with membrane treatment technology.

Specific capacities of Wells P-1, P-2, and P-3 at a flow rate of 750 gpm are 41 gm/ft, 46 gm/ft, and 30 gm/ft, respectively. Aquifer transmissivity of the region is approximately 45,886 ft²/day (343,226 gpd/ft).

Well P-3 was tested at pumping rates up to 900 gpm, and Wells P-1 and P-2 were tested at rates up to 1,200 gpm. All of the wells produce water free of turbidity and sand and are capable of supplying water at their individual rated capacity of 700 gpm.

Water quality of the wellfield is suitable for the designed membrane treatment as TDS values range from 352 mg/L at Well P-2 to 432 mg/L at Well P-1. If the wells are operated simultaneously at their designed rate, the blended water from the wellfield received at the plant would have a TDS of approximately 390 mg/L, not taking into account up-coning of saltier water that may occur over time as a result of sustained pumping activities.

6.2 Recommendations

Data obtained during the construction and testing of Wells P-1 through Well P-3 confirm that the intercepted lower Tamiami aquifer of the Surficial Aquifer System provides suitable water quality and productivity for Ave Maria's proposed water treatment facility.

Water levels in the wells should be monitored during pumping and static periods and changes in specific capacity of the wells noted. Periodic acidization of the wells may be required to reduce depositions near the well bore and to reduce turbidity. Significant declines (greater than 30 percent) in specific capacity may indicate that acidization is required.

Wells P-1 and P-2 are the most productive and can operate at higher flow rates with less drawdown impacts, therefore, should be used preferentially whenever higher production rates are necessary.

Water quality from each well should be monitored on a weekly basis during the first 6 months of wellfield start up. This sampling may be reduced following a review of the data. Parameters should include at a minimum chloride and specific conductivity.

Wellfield optimization modeling should be considered following start up of the wellfield. This modeling will aid in optimizing well pumpage rotation and flow rates of the new wellfield to minimize any possible adverse impacts. Further calibrations can also be made to the model to simulate the current wellfield operation which can be used to model additional wellfield expansions in the future.



SECTION 7 BIBLIOGRAPHY AND REFERENCES CITED



SECTION 7

Bibliography and References Cited

CH2M HILL, 2002. *Well Completion Report and Hydrogeological Investigation for the Bonita Springs Utilities Reverse Osmosis Test Production Well, Bonita Springs, Florida*. Prepared for Bonita Springs Utilities.

CH2M HILL, September 1999. *Well Completion Report - Potable Water Aquifer Storage Recovery Phase II Drilling and Testing at the San Carlos Estates ASR Site, Bonita Springs, Florida*. Prepared for Bonita Springs Utilities.

CH2M HILL, February 1998. *Potable Water Aquifer Storage Recovery for the Bonita Springs Utilities Water System Phase I - Feasibility Study*. Prepared for Bonita Springs Utilities.

CH2M HILL, August 1998. *Application for Water Use Permit Modification, Bonita Springs Utilities East and West Wellfields*. Prepared for Bonita Springs Utilities.

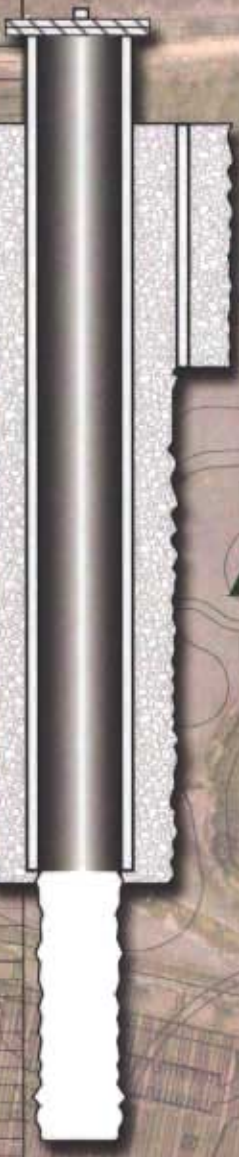
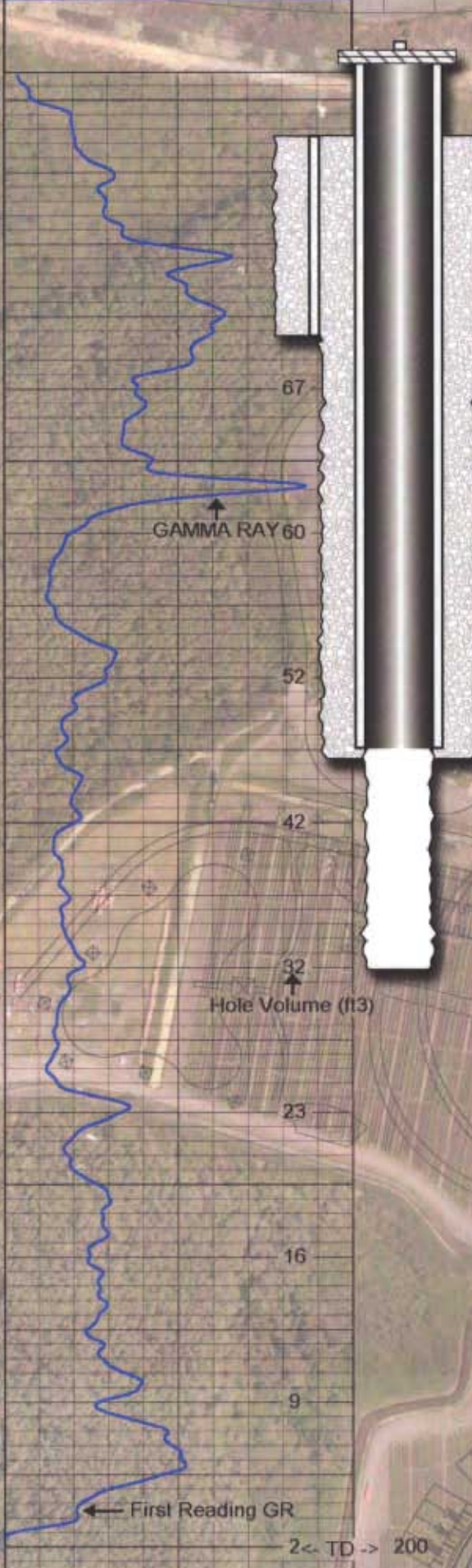
Florida Department of Environmental Protection, FAC - 62-621.

Groundwater and Wells. 1975. Johnson Division, UOP Inc., St. Paul, Minnesota.

Durward H. Boggess, 2002. Florida Geological Survey Special Publication No. 49, *Geology and Hydrology of Lee County, Florida*.

South Florida Water Management District, April 1992. Technical Publication 92-04, *A Three-Dimensional Finite Difference Groundwater Flow Model of Western Collier County, Florida*.

South Florida Water Management District, February 1986. Technical Publication 86-1, *Preliminary Assessment of Groundwater Resources of Western Collier County, Florida*.



APPENDICES

P-1

P-2

P-3

APPENDIX A

Regulatory Permits and Well Completion Reports

**COLLIER COUNTY
BOARD OF COUNTY COMMISSIONERS**

PERMIT

PERMIT #: 2004072706
ISSUED: 07-27-04
MASTER #: 2004072706 COA #: N/A

PERMIT TYPE: WELL
APPLIED DATE: 07-27-04

VALID #: 706
APPROVAL DATE: 07-27-04

JOB ADDRESS: 5000 CAMP KEAIS RD

JOB DESCRIPTION: CC07274L TEST WELL #1

JOB PHONE:

SUBDIVISION #: 100 - acreage

BLOCK: 001

LOT: .000

FLOOD MAP: 0300

ZONE: D

ELEVATION:

FOLIO #: 0000000226280002

SECTION-TOWNSHIP-RANGE 29 48 5

OWNER INFORMATION:

BARRON COLLIER PARTNERSHIP
2600 GOLDEN GATE PKWY STE 200

NAPLES, FLC095 341053227

CONTRACTOR INFORMATION:

DIVERSIFIED DRILLING CORP.
P.O. BOX 290699

TAMPA, FL 33687-

CERTIFICATE #: 23271

PHONE: (239)368-6404

FCC CODE: 800 - WELLS

CONSTRUCTION CODE: 10 / OTHER

JOB VALUE:

TOTAL SQFT:

SETBACKS FRONT:

REAR:

LEFT:

RIGHT:

SEWER:

SEPTIC

WATER:

WELL

CONTACT NAME: BILL

CONTACT PHONE: (239)368-6404

Per Collier County Ordinance No. 2002-01, as it may be amended, all work must comply with all applicable laws, codes, ordinances, and any additional stipulations or conditions of this permit. This permit expires if work authorized by the permit is not commenced within six (6) months from the date of issuance of the permit. Additional fees for failing to obtain permits prior to the commencement of construction may be imposed. Permittee(s) further understands that any contractor that may be employed must be a licensed contractor and that the structure must not be used or occupied until a Certificate of Occupancy is issued.

NOTICE: PRIOR TO THE REMOVAL OF ASBESTOS PRODUCTS OR THE DEMOLITION OF A STRUCTURE, FEDERAL AND STATE LAWS REQUIRE THE PERMITTEE (EITHER THE OWNER OR CONTRACTOR) TO SUBMIT A NOTICE OF THE INTENDED WORK TO THE STATE DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP). FOR MORE INFORMATION, CONTACT DEP AT (239) 332-6975.

In addition to the conditions of this permit, there may be additional restrictions applicable to this property that may be found in the public records of this county, and there may be additional permits required from other governmental entities such as water management districts, state agencies, or federal agencies.

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

**COLLIER COUNTY
BOARD OF COUNTY COMMISSIONERS**

PERMIT

PERMIT #: 2004072711
ISSUED: 07-27-04
MASTER #:

PERMIT TYPE: WELL
APPLIED DATE: 07-27-04

VALID #: 711
APPROVAL DATE: 07-27-04

COA #: N/A

JOB ADDRESS: 5000 CAMP KEAIS RD
JOB DESCRIPTION: CC07274-M TEST WELL #2

JOB PHONE:

SUBDIVISION #: 100 - acreage BLOCK: 001 LOT: .000
FLOOD MAP: 0300 ZONE: D ELEVATION:
FOLIO #: 0000000226280002 SECTION-TOWNSHIP-RANGE 29 48 5

OWNER INFORMATION:
BARRON COLLIER PARTNERSHIP
2600 GOLDEN GATE PKWY STE 200

CONTRACTOR INFORMATION:
DIVERSIFIED DRILLING CORP.
P.O. BOX 290699

NAPLES, FLC095 341053227

TAMPA, FL 33687-

CERTIFICATE #: 23271 PHONE: (239)368-6404

FCC CODE: 800 - WELLS
CONSTRUCTION CODE: 10 / OTHER
JOB VALUE: TOTAL SQFT:

SETBACKS FRONT: REAR: LEFT: RIGHT:
SEWER: SEPTIC WATER: WELL
CONTACT NAME: BILL
CONTACT PHONE: (239)368-6404

Per Collier County Ordinance No. 2002-01, as it may be amended, all work must comply with all applicable laws, codes, ordinances, and any additional stipulations or conditions of this permit. This permit expires if work authorized by the permit is not commenced within six (6) months from the date of issuance of the permit. Additional fees for failing to obtain permits prior to the commencement of construction may be imposed. Permittee(s) further understands that any contractor that may be employed must be a licensed contractor and that the structure must not be used or occupied until a Certificate Occupancy is issued.

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**COLLIER COUNTY
BOARD OF COUNTY COMMISSIONERS**

PERMIT

PERMIT #: 2004072713

ISSUED: 07-27-04

MASTER #:

COA #: N/A

PERMIT TYPE: WELL

APPLIED DATE: 07-27-04

VALID #: 713

APPROVAL DATE: 07-27-04

JOB ADDRESS: 5000 CAMP KEAIS RD

JOB DESCRIPTION: CC07274-N TEST WELL #3

JOB PHONE:

SUBDIVISION #: 100 - acreage

BLOCK: 001

LOT: .000

FLOOD MAP: 0300

ZONE: D

ELEVATION:

FOLIO #: 0000000226280002

SECTION-TOWNSHIP-RANGE 29 48 5

OWNER INFORMATION:

BARRON COLLIER PARTNERSHIP
2600 GOLDEN GATE PKWY STE 200

NAPLES, FL C095 341053227

CONTRACTOR INFORMATION:

DIVERSIFIED DRILLING CORP.
P.O. BOX 290699

TAMPA, FL 33687-

CERTIFICATE #: 23271

PHONE: (239)368-6404

FCC CODE: 800 - WELLS

CONSTRUCTION CODE: 10 / OTHER

JOB VALUE:

TOTAL SQFT:

SETBACKS FRONT:

REAR:

LEFT:

RIGHT:

SEWER:

SEPTIC

WATER:

WELL

CONTACT NAME: BILL

CONTACT PHONE: (239)368-6404

Per Collier County Ordinance No. 2002-01, as it may be amended, all work must comply with all applicable laws, codes, ordinances, and any additional stipulations or conditions of this permit. This permit expires if work authorized by the permit is not commenced within six (6) months from the date of issuance of the permit. Additional fees for failing to obtain permits prior to the commencement of construction may be imposed. Permittee(s) further understands that any contractor that may be employed must be a licensed contractor and that the structure must not be used or occupied until a Certificate of Occupancy is issued.

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In addition to the conditions of this permit, there may be additional restrictions applicable to this property that may be found in the public records of this county, and there may be additional permits required from other governmental entities such as water management districts, state agencies, or federal agencies.

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Well Completion Report

Form 20637
Rev. 11/91

CONSTRUCTION PERMIT NO. 2004072706

Ave Maria Utility Co. 2600 Golden Gate Pky Naples FL 34105
City Collier License No. 23271 Completion Date 9/16/04 Casing Depth 61' Well ID 82.5' Well # PW1

Contractor's Signature
Ross Americal

Registration No.

TYPE OF WORK: Construct Repair () Abandon ()
WELL USE: Private Well () Public () Monitor () Test
Irrigation () Fire Well () Other _____
METHOD: Rotary with MUD or Air () Cable Tool () Jet ()
Casing Driven () Other _____

STATIC WATER LEVEL 7.4 Ft. below top of casing
PUMPING WATER LEVEL 14.9 Ft. after 1 Hrs. at 450 GPM
PUMP SIZE 4" H.P. CAPACITY 450 GPM
PUMP TYPE Centrifugal INTAKE DEPTH 20'
From top of ground

LOCATION
Located Near 5000 Camp Kassis Rd
County Collier
Section 29 Township 48 Range 5

Unit _____ Block _____ Lot _____ Subdivision _____
Cuttings sent to District? Yes No

LOCATE IN SECTION

No cuttings sent "COLLECT" will be accepted

Note: PWS Wells attach a site map if well location is different from site location on permit application.

GROUT Thickness & Depth	Casing & Screen		Depth (ft)		DRILL CUTTINGS LOG Examine cuttings every 20 feet at formation changes Give color, grain size, and type of material Note cavities depth to producing zones
	Thickness & Depth	Diameter & Finish	From	To	
	<u>2 1/2"</u>	<u>20"</u>	<u>20'</u>		<u>Steel Casing</u>
	<u>2 1/2"</u>	<u>12"</u>	<u>61'</u>		<u>PVC</u>
			<u>0</u>	<u>10'</u>	<u>Sand-Shell</u>
			<u>10'</u>	<u>20'</u>	<u>Limestone</u>
			<u>20'</u>	<u>30'</u>	<u>Limestone</u>
			<u>30'</u>	<u>40'</u>	<u>Clay</u>
			<u>40'</u>	<u>50'</u>	<u>Clay</u>
			<u>50'</u>	<u>62'</u>	<u>Clay-rock</u>
			<u>62'</u>	<u>64'</u>	<u>Limestone</u>
			<u>64'</u>	<u>75'</u>	<u>Tan, grey limestone</u>
			<u>75'</u>	<u>81'</u>	<u>Tan Limestone</u>
			<u>81'</u>	<u>82.5'</u>	<u>Phosphate, clay</u>

Number of bags
80

Casing: Black Steel Galv. () PVC Fiberglass ()

Screen: Type _____ Slot size _____

Screened from _____ (ft.) to _____ (ft.)

Type of grout with % additives neat

Water: Clear () Colored () Sulphur () Salty () Iron

Conductivity _____ Chlorides _____ mg/l



Well Completion Report

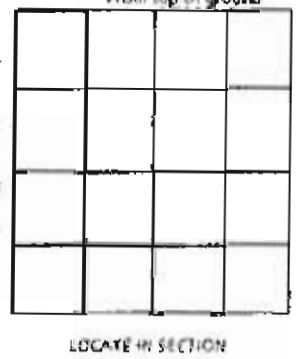
Form #0637
v. 11/91

CONSTRUCTION PERMIT NO. 2004072711 FLORIDA COUNTY
WELL-DRILLER

Owner: Ave Maria Utility 2600 Golden Gate Blvd Naples, FL 34105
Contractor's Signature: [Signature] License No: 23271 Completion Date: 8-25-04 City: 58' State: 80' Well ID: PW2

Driller's Name: _____ Registration No: _____
TYPE OF WORK: Construct Repair () Abandon ()
WELL USE: Private Well () Public () Monitor () Test
Irrigation () Fire Well () Other _____
METHOD: Rotary with MUD or Air () Cable Tool () Jet ()
Casing Driven () Other _____
STATIC WATER LEVEL: 6.92 Ft. below top of casing
PUMPING WATER LEVEL: 14.1 Ft. after 1 Hrs. at 450 GPM
PUMP SIZE: 4" H.P. CAPACITY: 450 GPM
PUMP TYPE: Centrifugal INTAKE DEPTH: 20'

LOCATION
Located Near: 5000 Camp Kears Rd
County: Collier
29 48 5
1/4 1/4 Section Township Range
Unit Block Lot Subdivision
Cutoffs sent to District? Yes No



Grout	Casing & Screen	Depth (ft.)		OIL & CUTTINGS LOG Examine cuttings every 20 ft or at formation changes. Give color, grain size, and type of material. Note cavities, depth to producing zones.
		From	To	
		2"	20"	Steel casing
		2"	121"	PVC casing
			0' 9'	Sand
			9' 10'	Shell, sandy clay
			10' 20'	Limestone
			20' 30'	Limestone Shelly material
			30' 40'	Green clay
			50' 58'	Green clay
			58' 62'	Limestone
			62' 70'	Limestone Tan & Grey
			70' 80'	Limestone Tan
Number of bags				
				87

Casing: Black Steel Galv. () PVC Fiberglass ()
Screen: Type _____ Slot size _____
Screened from _____ (ft.) to _____ (ft.)
Type of grout with % additives: neat
Water: Clear () Colored () Sulphur () Salty () Iron
Conductivity _____ Chlorides _____ mg/l

No cuttings sent "COLLECT" on 8 by accepted
Note: PWS Wells attach a site map if well location is different from site location on permit application.



Well Completion Report

CONSTRUCTION PERMIT NO 2004012713 CALHOUN COUNTY SHEET 001-001-001

Five Maria Utility 2600 Golden Gate Blvd Naples FL 34105
City 50' State 73' Zip PW3
Contractor's sign Ross Amend License No. 23271 Completion Date 8-15-04

Driller's Name _____ Registration No. _____

TYPE OF WORK: Construct Repair () Abandon ()
WELL USE: Private Well () Public () Monitor () Test
Irrigation () Fire Well () Other _____
METHOD: Rotary with MUD or Air (). Cable Tool (). Jet ()
Casing Driven (). Other _____

STATIC WATER LEVEL 6.85 Ft. below top of casing
PUMPING WATER LEVEL 13.8 Ft. after 1 Hrs. at 450 GPM
PUMP SIZE 4" H.P. CAPACITY 450 GPM
PUMP TYPE Centrifugal INTAKE DEPTH 20'
From top of ground

LOCATION
Located Near 5000 Camp
Ken's Rd.
County Collier
29 48 5
Unit _____ Block _____ Lot _____ Subdivision _____
Cuffings sent to District? () Yes
 No

No cuttings sent "COLLECT" will be accepted
Note: PWS Wells attach a site map if well location is different from site location on permit application.

Grout	Casing & Screen		Depth (ft.)		DRILL CUTTINGS LOG Examine cuttings every 20 ft. or at formation changes. Give color, grain size, and type of material. Note cavities, depth to producing zones.
	Thickness & Depth	Diameter & Depth	From	To	
	<u>2 1/2"</u>	<u>20"</u>	<u>20'</u>	<u>50'</u>	<u>Steel casing</u>
					<u>PVC casing</u>
			<u>0</u>	<u>10'</u>	<u>Sand</u>
			<u>10'</u>	<u>20'</u>	<u>Limestone</u>
			<u>20'</u>	<u>30'</u>	<u>Tan marl, sandy clay</u>
			<u>30'</u>	<u>40'</u>	<u>Green clay</u>
			<u>40'</u>	<u>50'</u>	<u>Green clay</u>
			<u>50'</u>	<u>60'</u>	<u>Grey limestone</u>
			<u>60'</u>	<u>73'</u>	<u>Limestone, shelly rock</u>
Number of bags					
<u>90</u>					

Casing: Black Steel Galv. () PVC Fiberglass ()
Screen: Type _____ Slot size _____
Screened from _____ (ft.) to _____ (ft.)
Type of grout with % additives neat
Water: Clear () Colored () Sulphur () Salty () Iron
Conductivity _____ Chlorides _____ mg/l

**COLLIER COUNTY
BOARD OF COUNTY COMMISSIONERS**

PERMIT

PERMIT #: 2005021665 PERMIT TYPE: WELL VALID #: 665
ISSUED: 02-16-05 APPLIED DATE: 02-16-05 APPROVAL DATE: 02-16-05
MASTER #: COA #: N/A

JOB ADDRESS: 5000 CAMP KEAIS RD
JOB DESCRIPTION: CC02165J TEST WELL #1/MODIF. PUBLIC WATE JOB PHONE:

SUBDIVISION #: 100 - acreage BLOCK: 001 LOT: .000
FLOOD MAP: 0300 ZONE: D ELEVATION:
FOLIO #: 0000000226280002 SECTION-TOWNSHIP-RANGE 29 48 5

OWNER INFORMATION: CONTRACTOR INFORMATION:
BARRON COLLIER PARTNERSHIP DIVERSIFIED DRILLING CORP.
2600 GOLDEN GATE PKWY STE 200 P.O. BOX 290699
NAPLES, FLC095 341053227 TAMPA, FL 33687-
CERTIFICATE #: 23271 PHONE: (239)368-6404

FCC CODE: 800 - WELLS
CONSTRUCTION CODE: 10 / OTHER
JOB VALUE: TOTAL SQFT:

SETBACKS FRONT: REAR: LEFT: RIGHT:
SEWER: SEPTIC WATER: WELL
CONTACT NAME: BILL
CONTACT PHONE: (239)368-6404

Per Collier County Ordinance No. 2002-01, as it may be amended, all work must comply with all applicable laws, codes, ordinances, and any additional stipulations or conditions of this permit. This permit expires if work authorized by the permit is not commenced within six (6) months from the date of issuance of the permit. Additional fees for failing to obtain permits prior to the commencement of construction may be imposed. Permittee(s) further understands that any contractor that may be employed must be a licensed contractor and that the structure must not be used or occupied until a Certificate of Occupancy is issued.

NOTICE: PRIOR TO THE REMOVAL OF ASBESTOS PRODUCTS OR THE DEMOLITION OF A STRUCTURE, FEDERAL AND STATE LAWS REQUIRE THE PERMITTEE (EITHER THE OWNER OR CONTRACTOR) TO SUBMIT A NOTICE OF THE INTENDED WORK TO THE STATE DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP). FOR MORE INFORMATION, CONTACT DEP AT (239) 332-6975.

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WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

**COLLIER COUNTY
BOARD OF COUNTY COMMISSIONERS**

PERMIT

PERMIT #: 2005021667 PERMIT TYPE: WELL VALID #: 667
ISSUED: 02-16-05 APPLIED DATE: 02-16-05 APPROVAL DATE: 02-16-05
MASTER #: COA #: N/A

JOB ADDRESS: 5000 CAMP KEAIS RD
JOB DESCRIPTION: CC02165-K TEST WELL #2 MODIF TO PUBLIC W JOB PHONE:

SUBDIVISION #: 100 - acreage BLOCK: 001 LOT: .000
FLOOD MAP: 0300 ZONE: D ELEVATION:
FOLIO #: 0000000226280002 SECTION-TOWNSHIP-RANGE 29 48 5

OWNER INFORMATION:

BARRON COLLIER PARTNERSHIP
2600 GOLDEN GATE PKWY STE 200
NAPLES, FLC095 341053227

CONTRACTOR INFORMATION:

DIVERSIFIED DRILLING CORP.
P.O. BOX 290699
TAMPA, FL 33687-

CERTIFICATE #: 23271 PHONE: (239)368-6404

FCC CODE: 800 - WELLS
CONSTRUCTION CODE: 10 / OTHER
JOB VALUE: TOTAL SQFT:

SETBACKS FRONT: REAR: LEFT: RIGHT:
SEWER: SEPTIC WATER: WELL
CONTACT NAME: BILL
CONTACT PHONE: (239)368-6404

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**COLLIER COUNTY
BOARD OF COUNTY COMMISSIONERS**

PERMIT

PERMIT #: 2005021669 PERMIT TYPE: WELL VALID #: 669
ISSUED: 02-16-05 APPLIED DATE: 02-16-05 APPROVAL DATE: 02-16-05
MASTER #: COA #: N/A

JOB ADDRESS: 5000 CAMP KEAIS RD
JOB DESCRIPTION: CC02165-L TEST WELL #3 MODIF TO PUBLIC W JOB PHONE:

SUBDIVISION #: 100 - acreage BLOCK: 001 LOT: .000
FLOOD MAP: 0300 ZONE: D ELEVATION:
FOLIO #: 0000000226280002 SECTION-TOWNSHIP-RANGE 29 48 5

OWNER INFORMATION: CONTRACTOR INFORMATION:
BARRON COLLIER PARTNERSHIP DIVERSIFIED DRILLING CORP.
2600 GOLDEN GATE PKWY STE 200 P.O. BOX 290699
NAPLES, FLC095 341053227 TAMPA, FL 33687-
CERTIFICATE #: 23271 PHONE: (239)368-6404

FCC CODE: 800 - WELLS
CONSTRUCTION CODE: 10 / OTHER
JOB VALUE: TOTAL SQFT:

SETBACKS FRONT: REAR: LEFT: RIGHT:
SEWER: SEPTIC WATER: WELL
CONTACT NAME: BILL
CONTACT PHONE: (239)368-6404

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APPENDIX B

Summary of Construction Activities

Production Well - 1 Construction Activities

Date	Activity
August 31, 2004	Mobilize to site, begin drilling activities, set 20 feet of 20-inch diameter steel surface casing.
September 1, 2004	Resume drilling 8-inch nominal pilot hole utilizing mud rotary drilling methods, conduct first geophysical logging event, and ream 8-inch pilot hole to 19-inch diameter hole using mud rotary drilling.
September 2, 2004	Complete reaming of 8-inch pilot hole to 19-inch diameter hole to approximately 62 feet bls. Secure site in preparation for Hurricane Frances.
September 3-7, 2004	No Activity - Hurricane Frances.
September 8, 2004	Set and cement 61 feet of 12-inch SDR-17 PVC Casing
September 9, 2004	Drill nominal 12-inch open hole to approximately 82 feet bls using reverse-air drilling methods.
September 10, 2004	Initiated and completed airlift development activities. Secured site in preparation for Hurricane Ivan.
September 14, 2004	Conduct Final Geophysical Logging Event #2.
September 21, 2004	Conduct variable rate pump test. Background water quality samples collected.
September 29, 2004	Install protective barriers around wellhead.
October 6, 2004	Final Inspection Activities.

Production Well - 2 Construction Activities

Date	Activity
August 19, 2004	Mobilization and site preparation/prepare for drilling operations
August 20, 2004	Begin drilling, Set 20 feet of 20-inch steel surface casing.
August 23, 2004	Continue drilling 8-inch pilot hole to 62 feet bls using mud rotary drilling method. Conduct first geophysical logging event. Begin reaming 8-inch pilot hole to 19-inch diameter.
August 24, 2004	Continue reaming 8-inch pilot hole to 19-inch diameter. Set 59 feet of 12-inch casing.
August 25, 2004	Drill open hole to approximately 82.5 feet bls. Back-plug from 82.5 feet bls to approximately 80 feet bls with neat cement.
August 26, 2004	Initiated and completed airlift development activities.
August 27, 2004	Conduct final geophysical logging event #2.
August 30, 2004	Collect background water samples.
September 24, 2004	Conduct variable rate pump test.
September 29, 2004	Install protective barriers around wellhead.
October 6, 2004	Final Inspection Activities.

Production Well - 3 Construction Activities

Date	Activity
July 30, 2004	Begin Mobilization to P-3.
August 3, 2004	Begin drilling, Set and cement 20-feet of 20-inch diameter steel surface casing. 30 bags of neat cement used.
August 4, 2004	Resume drilling 8-inch nominal pilot hole utilizing mud rotary drilling methods. Complete pilot hole to a total depth 200 feet bls.
August 5, 2004	Conduct geophysical logging event # 1.
August 6, 2004	Set Drillable Bridge Plug.
August 11, 2004	Ream 8-inch pilot hole to 19-inch diameter hole using mud rotary drilling. Set and cement 50 feet of 12-inch casing.
August 12-16, 2004	Limited Activities – Hurricane Charley
August 17, 2004	SDS tagged cement depth inside 12-inch PVC casing. Tagged depth = 47 feet bls. SDS employ mud rotary techniques to drill from ~47 – 50 feet bls and then switch to reverse air. Reverse air (RA) drilling initiated. SDS stop at 77 feet bls.
August 18, 2004	Conduct final geophysical logging event #2.
August 19, 2004	Begin back-plugging well.
August 25, 2004	Back-plug well to approximately 75 feet bls, total cement used = 7 sacks
August 26, 2004	Airlift development preparation.
August 27, 2004	Airlift development activities produces sand. Well back-plugged further using 5 bags of gravel and 1 bag of neat cement.
August 30, 2004	Tagged backplugged depth at 71 feet bls. Successfully resume and complete airlift development activities.
September 14, 2004	Conduct Final Video Log.
September 22, 2004	Collect background water sample.
September 23, 2004	Conduct variable rate pump test .
September 29, 2004	Protective barriers installed around wellhead.
October 6, 2004	Final Inspection Activities.

APPENDIX C

Daily Construction Reports

CH2M HILL Daily Summary

Day/Date: Friday, July 30, 2004 **Project:** Ave Maria
Project No.: 316301 **Contractor:** Diversified Drilling Corp. (DDC)
Client: Ave Maria Town & University **Well No:** P-3

P-3

Activity:	Site preparation, install shallow make-up well
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0730- DDC prepare site and rig maintenance in preparation for drilling activities. Drill 25 foot bore hole and installed 4-inch diameter shallow water supply well. Casing installed to 15 feet bls.

1645 End of Day. DDC offsite. DDC will continue rigging up for drilling operations on Tuesday August 3. CH2M HILL site coverage provided via phone.

Recorded By: Carlton Ivery/CH2M HILL

CH2M HILL Daily Summary

Day/Date: Monday, August 2, 2004 **Project:** Ave Maria
Project No.: 316301 **Contractor:** Diversified Drilling Corporation (DDC)
Client: Ave Maria Town & University **Well No:** P-3

P-3	
Activity:	Continued site preparation/prepare for drilling operations
Starting Depth:	NA
Ending Depth:	NA
Materials used:	NA

- 0730- DDC prepare site and rig maintenance in preparation for drilling activities. Develop 4-inch diameter shallow water supply well using airlift development techniques.
- 1645 End of Day. DDC offsite. DDC will continue rigging up for drilling operations on 3 Aug 04. CH2M HILL site coverage provided via phone.

Recorded By: Carlton Ivery/CH2M HILL

CH2M HILL Daily Summary

Day/Date: Tuesday, August 3, 2004	Project: Ave Maria
Project No.: 316301	Contractor: Diversified Drilling Corp.
Client: Ave Maria Town & University	Well No: P-3

P-3	
Activity:	Mud Rotary Drilling and Surface Casing Installation Activities
Starting Depth:	Land Surface
Ending Depth:	20 feet Below Land Surface (bls)
Materials used:	20 feet of 20-inch Steel Surface Casing

- 0705 C. Ivery enroute. Call From Ross/ DDC. ~ 1 hour prep time before drilling
- 0830 C. Ivery onsite. Review day's activities with Ross & Daniel/DDC.
- 0845 C. Ivery contact Mike Weatherby to review procedures and day's activities. DDC start mud rotary drilling. DDC's goal is to drill 200 feet bls and log entire length. Today's activities will be limited to setting 20 feet of 20-inch steel surface casing.
- 1025 Samples collected and logged from 0-20 feet bls. DDC currently prepping 20' of 20" steel surface casing (adding centralizers)
- 1040 Casing installed. Prep for cementing.
- 1045 Heavy down pour of rain. Work paused. Waiting arrival of cement.
- 1055 DDC drop off 30 bags of neat cement
- 1109 Contact M. Weatherby with update.
- 1114 Start mixing cement and treming into annulus.
- 1127 Stop treming cement - 30 bags of portland cement used. Minimum cement return noted at surface
- 1130 Pumping chase
- 1200 End of Day. DDC to police area, C. Ivery enroute to Ft. Myers for supplies.

Recorded By: Carlton Ivery/CH2M HILL

CH2M HILL Daily Summary

Day/Date: Wednesday, August 4, 2004 **Project:** Ave Maria
Project No.: 316301 **Contractor:** Diversified Drilling Corp.
Client: Ave Maria Town & University **Well No:** P-3

P-3	
Activity:	Resume drilling 8-inch nominal pilot hole utilizing mud rotary drilling methods.
Starting Depth:	20 feet bls
Ending Depth:	200 feet bls

0700 C. Ivery enroute to Ave Maria. Call Ross/DDC. Informed of H&S inspection.
0800 C. Ivery onsite. DDC prep for drilling activities.
0837 Start drilling 1st sample to be collected from 20-30 feet bls
0850 1st sample collected from 20-30 feet bls.
0925 Ralph/DDC foreman onsite to inspect drilling operations.
1005 Ralph offsite. Andrew Ozolnieks/CCI/BSU & Alan Cyrier/CCI/ATL onsite to conduct H&S inspection.
1040 Andrew & Alan offsite. Review H&S concerns with Ross/DDC. DDC currently working on 110-120' depth.
1140 DDC currently at 160-170'. Slower drilling due to clays. Good water producing zone at ~ 55-75 feet bls noted by Ross/DDC lead driller.
1245 On 170-180 foot zone nearing 176 feet bls. Slow going due to stiff clays according to Ross/DDC
1545 End of day. Last sample collected from 190-200 feet bls. DDC pulled rods and policed area. Steve Miller to log bore tomorrow at 0830. DDC will run clean swipe before logging. All personnel offsite.

Recorded By: Carlton Ivery/CH2M HILL

CH2M HILL Daily Summary

Day/Date: Thursday, August 5, 2004	Project: Ave Maria
Project No.: 316301	Contractor: Diversified Drilling Corp.
Client: Ave Maria Town & University	Well No: P-3

P-3	
Activity:	First Geophysical Logging Event. Prep to ream 8-inch pilot to 25-inch diameter hole using mud rotary drilling.
Starting Depth:	Surface
Ending Depth:	200 feet bls

- 0730 DDC prep to circulate mud to clean out pilot hole in preparation for first geophysical logging event. Run clean wipe at 200' bore hole prior to logging
- 0820 Call M. Weatherby to review lithology logs and to discuss procedures after logging.
- 0855 Steve Miller/MV geophysical onsite to conduct gamma/caliper and dual induction/SP logs.
- 0919 Start logging
- 1030 Logging completed and bore hole secured. DDC enroute to field yard for supplies. Will await call from M. Weatherby or P. Larkin before continuing activities at P-3. Steve preparing hard copy and electronic logs.
- 1105 Obtained logs from Steve Miller. Steve Miller offsite. C. Ivery enroute to hotel to emails logs and lithology description to P. Larkin and M. Weatherby.
- 1235 Gamma/caliper and dual induction/SP electronic logs emailed to P. Larkin and M. Weatherby.
- 1432 Received email from P. Larkin following procedures will be incorporated Friday, 6 Aug 04:
 - DDC will backfill pilot hole with clean gravel to approx. 55' bls.
 - Set cement bridge-plug 55' to at least 50'
 - Ream to approx 51' bls (51' to the reamer bit).
 - Set casing approx 50' bls.
 - Drill open hole through production interval and beyond to approximately 95'
 - Cement cap from 95' feet to 75-80'
- 1445 Contacted Ross/DDC to discuss procedures for tomorrow, 6 Aug 04.
- 1500 End of Day.

Recorded By: Carlton Ivery/CH2M HILL

CH2M HILL Daily Summary

Day/Date: Friday, August 6, 2004	Project: Ave Maria
Project No.: 316301	Contractor: Diversified Drilling Corp.
Client: Ave Maria Town & University	Well No: P-3

P-3	
Activity:	Set Drillable Bridge Plug and Cement Cap.
Starting Depth:	200 feet bls
Ending Depth:	57 feet bls
Materials used:	30 Bags of Gravel & 4 Bags of Neat Cement.

- 0800 C. Ivery onsite. Waiting arrival of DDC. DDC to backplug and ream well according to Aug. 5, 2004 email from Pete Larkin to DDC & C. Ivery.
- 0840 DDC onsite with load of gravel to back plug bore hole. ¼" - ½" White River Gravel by Florida Stone. Each bag ½ ft³ (14L). Approximate coverage 2-3 ft² by 2" deep according to bag. 2 pallets at 60 bags/pallet total 120 bags of ¼" - ½" White River Gravel onsite.
- 0938 4" drill pipe set at ~58' bls. DDC to pour gravel down drill pipe.
- 0946 Start pouring gravel
- 1005 Heavy down pour. Back plugging paused.
- 1105 Tagged gravel plug depth ~ 57' bls. DDC to mix four bags of neat cement and pour/tremie on top of gravel plug.
- 1115 C. Ivery contact P. Larkin with summary of activities.
- 1200 End of Day. DDC police and secure area. DDC & C. Ivery offsite. Reaming activities to be begin 9 Aug 04.

Recorded By: Carlton Ivery/CH2M HILL

CH2M HILL Daily Summary

Day/Date: Monday, August 9, 2004 **Project:** Ave Maria
Project No.: 316301 **Contractor:** Diversified Drilling Corp.
Client: Ave Maria Town & University **Well No:** P-3

P-3

Activity:	Limited Activities. DDC Service Drilling Equipment.
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0710 Received call from Ross/DDC stating mechanical problems. DDC would not make it to site until late this afternoon. Agreed no activity for today. Will resume tomorrow with reaming activities.

Recorded By: Carlton Ivery/CH2M HILL

CH2M HILL Daily Summary

Day/Date: Tuesday, August 10, 2004 **Project:** Ave Maria
Project No.: 316301 **Contractor:** Diversified Drilling Corp.
Client: Ave Maria Town & University **Well No:** P-3

P-3	
Activity:	Limited Activities. DDC Service Drilling Equipment.

0700 Same as yesterday. No activity for today. DDC perform repairs to drill rig.

Recorded By: Carlton Ivery/CH2M HILL

CH2M HILL Daily Summary

Day/Date: Wednesday, August 11, 2004 **Project:** Ave Maria
Project No.: 316301 **Contractor:** Diversified Drilling Corp.
Client: Ave Maria Town & University **Well No:** P-3

P-3	
Activity:	Ream 8-inch pilot hole to 19-inch diameter hole using mud rotary drilling. Set 50 feet of 12-inch casing.
Starting Depth:	Surface
Ending Depth:	51 feet bls
Materials used:	51 feet 12-inch SDR-17 PVC Casing & 51 Bags Neat Cement

0700 DDC onsite prep for reaming after making final adjustments to mud system pump.
 0815 C. Ivery onsite. DDC currently reaming with 19 inch bit. Currently at 33 feet bls.
 0830 Obtain cement plan from DDC. DDC continue reaming.
 0940 Reaming activities completed. DDC currently circulating mud to clean out bore hole.
 1028 Lowering 1st section of PVC pipe (11 ft)
 1030 Connecting 1st and 2nd sections. 2nd section 30 ft.
 1033 Lowering 1 and 2. 41 ft. of casing lowered
 1036 Connecting 2 and 3. 3rd section = 20' length.
 1039 Lowering 2 and 3. 51 ft. of casing lowered.
 1043 Approximately 1.5-2 feet above grade riser - to top of coupling
 1046 DDC prep for cement casing
 1129 Setup for cementing complete. Tremie pipe set at ~ 45 feet bls (~ 5 above bottom of casing)
 1133 Start mixing portland cement
 1135 Start pumping. Wt = 14.9 lbs/gal
 1139 Wt = 15.1 lbs/gal, no pressure reading
 1142 Wt = 15.3 lbs/gal, no pressure reading
 1145 Sample collected. End of 1st Pallet.
 1151 Pumping chase. Good cement return noted at surface. Pressure = 10 psi.
 1158 Pumping chase completed, tremie pulled/raised approximately 5 feet.
 1240 DDC police and secured area. Request permission to return to site and pull tremie pipe at 1630. C. Ivery to call P. Larkin or M. Weatherby for approval. All personnel offsite.
 1315 Contact Ross/DDC, DDC to pull tremie pipe and secure site tomorrow in preparation for Hurricane Charley. DDC crew take remainder of day off to prep homes for hurricane.

Recorded By: Carlton Ivery/CH2M HILL

CH2M HILL Daily Summary

Day/Date: Thursday, August 12, 2004 **Project:** Ave Maria
Project No.: 316301 **Contractor:** Diversified Drilling Corp.
Client: Ave Maria Town & University **Well No:** P-3

P-3

Activity:	Limited Activities - Hurricane Charley preparation
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0800- DDC secure site in preparation for Hurricane Charley. Tremie line pulled and drilling mast
1030 lowered.

1035 Site secure. All personnel offsite.

Recorded By: Carlton Ivery/CH2M HILL

CH2M HILL Daily Summary

Day/Date: Friday, August 13, 2004 **Project:** Ave Maria
Project No.: 316301 **Contractor:** Diversified Drilling Corp.
Client: Ave Maria Town & University **Well No:** P-3

P-3	
Activity:	Hurricane Charley - No Activities

0700- No activity due to Hurricane Charley.
1700

Recorded By: Carlton Ivery/CH2M HILL

CH2M HILL Daily Summary

Day/Date: Monday, August 16, 2004 **Project:** Ave Maria
Project No.: 316301 **Contractor:** Diversified Drilling Corp.
Client: Ave Maria Town & University **Well No:** P-3

P-3

Activity:	Service equipment & prep for reverse air drilling on Tuesday 17 Aug 04.
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0730- Limited activity. DDC pump out/clean out cutting tank, in preparation for RA drilling on
1500 Tuesday, August 17, 2004.

Recorded By: Carlton Ivery/CH2M HILL

CH2M HILL Daily Summary

Day/Date: Tuesday, August 17, 2004	Project: Ave Maria
Project No.: 316301	Contractor: Diversified Drilling Corp.
Client: Ave Maria Town & University	Well No: P-3

P-3	
Activity:	Mud Rotary/Reverse Air Drilling Activities
Starting Depth:	47 feet bls
Ending Depth:	77 feet bls

- 0800 DDC onsite prep for RA drilling. DDC to use "light" mud to drill through concrete plug and 2-3 feet into gravel plug.
- 0900 Tagged inner casing cement depth ~ 47 feet bls. DDC removing mud at ~ 50 feet bls. Prep to switch RA drilling.
- 1029 Start RA drilling.
- 1125 DDC currently at 64' BLS. Spec. capacity test PWL = 6.71 feet BTOC, Q = 120 Gal/1.5 mins = 80 gpm. Water sample collected. Spec. Cond. = 632 $\mu\text{s}/\text{cm}^{\circ}\text{C}$ at 33.2 $^{\circ}\text{C}$ and Cond = 734 $\mu\text{s}/\text{cm}^{\circ}\text{C}$ at 33.2 $^{\circ}\text{C}$
- 1135 SWL = 4.40 feet BTOC.
- 1155 DDC encountered "sand plug" near 77 feet bls. Pulled up to 75 feet bls to clean line. DDC to continue drilling.
- 1208 Call Pete Larkin to discuss sand issue.
- 1211 DDC to stop RA drilling and perform limited pump test. May drill beyond sand plug.
- 1221 Rods and drill bit pulled from well - DDC prep for pump test.
- 1225 SWL = 4.47 feet BTOC
- 1230 Q= 120 Gal/1.33 mins = 90 gpm; PWL = 6.58 feet BTOC.
- 1257 Based on conversation with Pete Larkin and Mike Weatherby, DDC to drill down to 80 feet bls. DDC to RA develop well at ~72-73 feet bls.
- 1341 Call Pete with update. Currently at 77' still producing a lot of sand. DDC prefer to stop. Little progress and filling up sand separator and line.
- 1345 Stop RA drilling. DDC pull up to 73' BLS. Water sample collected. Spec. Cond. = 630 $\mu\text{s}/\text{cm}^{\circ}\text{C}$ at 29.4 $^{\circ}\text{C}$ and Cond = 683 $\mu\text{s}/\text{cm}^{\circ}\text{C}$ at 29.4 $^{\circ}\text{C}$.
- 1350 RA development initiated.
- 1530 End RA development. Well still producing large quantity of sand.
- 1550 End of Day. All personnel offsite.

Recorded By: Carlton Ivery/CH2M HILL

CH2M HILL Daily Summary

Day/Date: Wednesday, August 18, 2004 **Project:** Ave Maria
Project No.: 316301 **Contractor:** Diversified Drilling Corp.
Client: Ave Maria Town & University **Well No:** P-3

P-3

Activity:	Conduct final geophysical logging event #2
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0950 C. Ivery onsite. Waiting arrival of DDC and Steve Miller.
1005 DDC and Steve Miller onsite. Prep for Static and Dynamic logs.
1020 Static WL = 4.05 feet below top of coupling
1030 Start static logs (caliper/gamma & fluid conductivity temperature/fluid resistivity temperature)
1140 Static logs (caliper/gamma & FCT/FRT) successfully completed.
1155 Start dynamic logs (flow meter & video). Q = 1050 gpm
1212 Pumping WL = 13.00 feet below top of coupling
1227 Pumping WL = 12.50 feet below top of coupling
1545 All logs finally completed. Obtained hard copies, CD, and video tape from Steve Miller. All personnel offsite. CI enroute to email logs and FedEx video tape

Recorded By: Carlton Ivery/CH2M HILL

CH2M HILL Daily Summary

Day/Date: Thursday, August 19, 2004 **Project:** Ave Maria
Project No.: 316301 **Contractor:** Diversified Drilling Corp.
Client: Ave Maria Town & University **Well No:** P-2 & P-3

P-3	
Activity:	Backplugging
Starting Depth:	76 feet bls
Ending Depth:	73 feet bls
Materials used:	3 bags of neat cement.

- 0810 DDC prep to backplug P-3 from ~76-73 feet bls using tremie technique and 3 bags of neat cement.
- 0910 Backplugging activities at P-3 completed. DDC will tagged backplug depth tomorrow, 20 Aug 04. DDC prep to mob to P-2.

P-2	
Activity:	Site Mobilization & Preparation.

- 0940 At P-2, DDC prepare site and rig maintenance in preparation for drilling activities.
- 1445 End of Day. DDC offsite. DDC will continue rigging up for drilling operations on 20 Aug 04.

Recorded By: Carlton Ivery/CH2M HILL

CH2M HILL Daily Summary

Day/Date: Friday, August 20, 2004	Project: Ave Maria
Project No.: 316301	Contractor: Diversified Drilling Corp.
Client: Ave Maria Town & University	Well No: P-2 & P-3

P-3	
Activity:	Continued Backplugging Activities
Tag Depth:	75 feet bls
Materials used:	1 bag of neat cement.

- 0805 DDC onsite at P-3. Prep to tag backplug depth.
- 0840 DDC tagged depth at ~75 feet bls. DDC to mix and add (using tremie method) an additional bag (1) of neat cement.
- 0910 Additional bag of neat cement mixture added to P-3. DDC to continue mobilization and preparation activities at P-2.

P-2	
Activity:	Continued Site Preparation, Mud Rotary Drilling, and Surface Casing Installation Activities
Starting Depth:	Surface
Ending Depth:	20 feet bls
Materials used:	20 feet of 20-inch Steel Surface Casing

- 1000 DDC continue mobilization and site preparation activities at P-2. Today's activities will be limited to setting 20 feet of 20-inch steel surface casing.
- 1115 Start mud rotary drilling activities at P-2.
- 1225 DDC currently near 20 feet bls.
- 1245 Samples collected and logged from 0-20 feet bls. DDC currently prepping 20' of 20" steel surface casing (adding centralizers) and circulating mud to clean out bore hole.
- 1330 Lead bit pulled from bore hole
- 1335 Casing installed. Prep for cementing
- 1350 Start mixing cement and treming into annulus.
- 1405 Stop treming cement - 30 bags of portland cement used. Minimum cement return noted at surface
- 1409 Pumping chase
- 1440 C. Ivery offsite. DDC to police area.

Recorded By: Carlton Ivery/CH2M HILL

CH2M HILL Daily Summary

Day/Date: Monday, August 23, 2004 **Project:** Ave Maria
Project No.: 316301 **Contractor:** Diversified Drilling Corp.
Client: Ave Maria Town & University **Well No:** P-2 & P-3

P-3	
Activity:	Backplugging Activities.
Starting Depth:	~75 feet bls
Materials used:	1 bag of neat cement.

- 0730 DDC tags P-3 cement backplug depth at ~75 feet bls. Plug came up only ~ 3-4 inches after 1 bag of neat cement was added on Friday, August 20, 2004.
- 1420 Additional bag of neat cement mixture added to P-3.
- 1430 C. Ivery offsite.

P-2	
Activity:	Continued Mud Rotary Drilling Activities. Conduct First Geophysical Logging Event. Ream 8-inch Pilot Hole to 25-inch Diameter Hole
Starting Depth:	20 feet bls
Ending Depth:	62 feet bls

- 0715 DDC onsite at P-2. Prep to continue mud rotary drilling activities.
- 0745 C. Ivery onsite. DDC cutting steel casing at P-2. Prep to drill to ~60 feet bls, log bore hole and ream bore hole.
- 0820 DDC start drilling 20-30' Interval
- 0940 Final sample collected from 58-62' BLS. DDC prep for logging. Currently circulating mud to clean out bore hole.
- 1000 Steve Miller/MV geophysical onsite to conduct gamma/caliper and dual induction/SP logs.
- 1020 Start Logging.
- 1125 Logging activities completed. Steve to print hand copy.
- 1210 Logs obtained from Steve Miller. Steve offsite.
- 1220 DDC prep to ream bore hole.
- 1240 DDC start reaming.
- 1350 DDC reamed to ~34' BLS. DDC prep to mix and add (using tremie method) an additional bag of neat cement to P-3. Afterwards DDC to prep PVC casing for installation tomorrow at P-2.

Recorded By: Carlton Ivery/CH2M HILL

CH2M HILL Daily Summary

Day/Date: Tuesday, August 24, 2004 **Project:** Ave Maria
Project No.: 316301 **Contractor:** Diversified Drilling Corp.
Client: Ave Maria Town & University **Well No:** P-2

P-2	
Activity:	Ream 8-inch pilot hole to 19-inch diameter hole using mud rotary drilling. Set 59 feet of 12-inch casing.
Starting Depth:	34 feet bls
Ending Depth:	62 feet bls
Materials used:	59 feet of 12-inch SDR 17 PVC casing, 55 bags of neat cement;

- 0900 DDC onsite. Prep for continued reaming and PVC casing installation. Andrew onsite to conduct his inspection.
- 0925 C. Ivery onsite. H&S inspection completed - Andrew offsite. DDC continue preparation activities.
- 0950 DDC tagged P-3 depth at 75 feet bls.
- 0955 Contact Pete Larkin with tag results. Pete approved adding of two bags of neat. DDC continued preparation activities at P-2.
- 1010 Back at P-2. Continue preparation of casing and reaming activities.
- 1100 DDC reaming currently at 45 feet bls
- 1130 DDC on bottom ~ 62 feet bls. Prep to install casing to 59 feet bls. Note 4 DDC personnel onsite.
- 1145 Circulating mud to clean hole. Adding coupling with black spins.
- 1155 DDC pulling rods
- 1206 Adding centralizers to 1st section of 12" SDR 17 PVC casing.
- 1210 1st section lowered (20')
- 1212 Connecting sections 1 and 2 (20')
- 1215 Lowering 1 and 2 - total 40 feet lowered
- 1217 Adding centralizer to section 3 and connecting section 3 (20') with 1 and 2
- 1221 Lowering section 3
- 1225 Adding cement header to well and prep pressure drop tube. Tube set at 50 feet bls.
- 1253 Start pumping neat.
- 1300 Wt - 15.2 lbs/gal, pressure = 0 psi

- 1302 Pressure = 8 psi
- 1304 Pressure = 11 psi
- 1306 Pressure = 16 psi
- 1307 55 bags of neat used. Pressure = 20 psi
- 1309 No return noted at surface. Pressure= 21 psi.
- 1340 Pumping chase. Did not work line plugged. Pack up - heavy lightening in area.
- 1400 All personnel offsite.

Recorded By: Carlton Ivery/CH2M HILL

CH2M HILL Daily Summary

Day/Date: Wednesday, August 25, 2004	Project: Ave Maria
Project No.: 316301	Contractor: Diversified Drilling Corp.
Client: Ave Maria Town & University	Well No: P-2 & P-3

P-3	
Activity:	Continued Backplugging Activities
Starting Depth:	Approximately 75 feet bls
Ending Depth:	Unknown
Materials used:	2 bags of neat cement

- 1545 Onsite at P-3. DDC prep to mix and add (using tremie method) two additional bags of neat cement.
- 1610 Additional 2 bags of neat cement mixture added to P-3. DDC police area. All personnel offsite.

P-2	
Activity:	Mud Rotary/Reverse Air Drilling Activities, Backplugging Activities
Starting Depth:	40 feet bls
Ending Depth:	82.5 feet bls
Materials used:	12 Bags of Neat Cement

- 0830 Onsite at P-2. DDC prep to pull rods plugged with cement from well.
- 0850 Rods pulled. No problems encountered. Tagged annular cement depth = ~ 10 feet bls.
- 0855 DDC prep to drill out cement plug and switch to RA drilling. Tagged inner cement depth ~40 feet bls.
- 1030 DDC at 64 feet bls. Circulating mud and prep to switch to RA drilling.
- 1120 RA drilling initiated. Based on conversation with Pete Larkin, DDC to drill to ~ 80 feet bls.
- 1216 At 70 feet bls: SWL = 6.92 feet BTOC.
- 1221 At 70 feet bls: PWL - 9.07 feet BTOC; Q~120 gpm
- 1230 At 70 feet bls: Spec. Capacity ~ 55.8 gal/ft. Spec. Cond. = 751 $\mu\text{s}/\text{cm}^{\circ}\text{C}$ at 27.9°C; Cond. = 793 $\mu\text{s}/\text{cm}$ at 27.9°C.

- 1300 At 80 feet bls water sample collected pH = 7.92 at 27.3°C; Spec. Cond. = 741 $\mu\text{s}/\text{cm}^{\circ}\text{C}$ at 26.5°C; Cond. = 761 $\mu\text{s}/\text{cm}$ at 26.5°C.
- 1315 Stop RA drilling. Sand encountered at ~ 82.5 – 83 feet bls. DDC prep for Spec. Capacity Test.
- 1320 At ~82.5 feet bls: SWL = 6.93 feet BTOC
- 1332 At ~82.5 feet bls: PWL = 8.38; Q~120 gpm
- 1335 At ~82.5 feet bls: Spec. Capacity ~ 82.8 gal/ft.
- 1340 Heavy rain and lightening. Activities paused.
- 1430 Prep to backplug open hole 2-3 feet to ~ 80 feet bls and fill annulus between PVC and steel casings with neat cement (using tremie method).
- 1505 DDC mixing ~ 12 bags of neat cement to fill the annulus and to place 2-3 foot cement cap on the bottom of P-2.
- 1510 Start filling/pumping neat mixture into annulus.
- 1515 Filling annulus between PVC and steel casings completed. DDC switch to backplugging/capping bottom of borehole.
- 1520 Backplugging/capping bottom of bore hole completed. DDC flushing lines and tremie pipe.

Recorded By: Carlton Ivery/CH2M HILL

CH2M HILL Daily Summary

Day/Date: Wednesday, August 26, 2004 **Project:** Ave Maria
Project No.: 316301 **Contractor:** Diversified Drilling Corp.
Client: Ave Maria Town & University **Well No:** P-2 & P-3

P-3

Activity:	Tag Cement back-plug
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0815 DDC Onsite. Prep for airlift development activities
0830 Tag P-3 at 75 feet bls (slightly higher ~2-3 inches)
0900 Contact Pete Larkin regarding P-3. Discuss DDC's request to add gravel to 74 feet bls and cap off gravel plug with additional bag(s) of neat. DDC enroute to pickup and/or purchase misc., bolts to secure development header.

P-2

Activity:	Airlift Development
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0815 DDC Onsite. Prep for airlift development activities
0850 Tag P-2 at 80 feet bls. Prep to develop P-2.
1120 DDC to set airline between 48-50 feet bls.
1218 Airlift development activities initiated
1428 Airlift development activities completed. DDC prep to move airlift development equipment (header, air compressor, etc.) to P-3 and setup for airlift development activities

Recorded By: Carlton Ivery/CH2M HILL

CH2M HILL Daily Summary

Day/Date: Friday, August 27, 2004	Project: Ave Maria
Project No.: 316301	Contractor: Diversified Drilling Corp.
Client: Ave Maria Town & University	Well No: P-2 & P-3

P-3	
Activity:	Airlift Development & Backplugging Activities
Materials used:	5 Bags of Gravel and 1 Bag of Neat Cement.

- 1400 Airlift development activities initiated at P-3
- 1445 Airlift development activities at P-3 stopped. Well consistently producing 30+ ml of sand/1000 ml water. DDC prep to backplug the open hole with 4-5 bags of gravel followed by 1-2 bags of neat cement. Call Pete Larkin to discuss results.
- 1600 Backplugging of P-3 completed. 5 bags of gravel and one bag of neat used. DDC to tag backplug depth on Monday, 30 Aug 04. DDC policed area and secured wells. All personnel offsite

P-2	
Activity:	Conduct Final Geophysical Logging Event #2;

- 08:30 C. Ivery onsite. DDC prep for Static and Dynamic logging event. Static WL = 7.10 feet below top of coupling
- 1005 Steve Miller onsite. Prep for Static and Dynamic logs.
- 1030 Start static logs (caliper/gamma, dual induction & fluid conductivity temperature/fluid resistivity temperature)
- 1135 Static logs (caliper/gamma & FCT/FRT) successfully completed.
- 1145 Start dynamic logs (flow meter & video). Q = 500 gpm
- 1200 Pumping WL = 16.05 feet below top of coupling
- 1350 All logs finally completed. Obtained hard copies, CD, and video tape from Steve Miller. All personnel offsite. CI enroute to email logs and FedEx video tape

Recorded By: Carlton Ivery/CH2M HILL

CH2M HILL Daily Summary

Day/Date: Monday, August 30, 2004 **Project:** Ave Maria
Project No.: 316301 **Contractor:** Diversified Drilling Corp.
Client: Ave Maria Town & University **Well No:** P-2 & P-3

P-3

Activity:	Airlift Development Activities
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08:45 C. Peters arrives onsite. DDC onsite. DDC tagged P-3 depth at 71 feet bls.
10:54 DDC prep to start airlift development of P-3. Air hose set at 45 feet bls.
11:02 Start airlift development of P-3. C. Peter to surge well every 15 minutes.
12:10 Begin surging more rapidly.
12:20 Resume airlift, collect sand sample every 1 minute for 5 mins. No sand (only 1 or 2 particles)
12:30 DDC offsite, well resume tomorrow at 08:30. C. Peters offsite.

P-2

Activity:	Primary and Secondary Drinking Water Standards - Sample Collection Activities
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07:30 C. Peters enroute to project site. Discuss today's activities with Carlton Ivery. DDC to setup centrifugal pump at P-2, add sample tap to discharge hose, and pump P-2 a minimum of 30 minutes prior to lab collection of samples.
08:45 C. Peters arrives onsite. DDC onsite. Waiting for lab arrival.
09:00 DDC start pumping P-2 with centrifugal pump.
09:43 DDC move drill rig to P-1 location. Still waiting on lab to arrival to collect samples. Sample tap installed discharge line. DDC to head back to their yard to pickup steel surface casing for P-1. DDC to drill and set surface casing tomorrow. Today sample P-2 and airlift develop P-3.
10:08 Sanders lab onsite to collect water samples from P-2.
10:54 Sanders lab offsite, samples collected.
12:30 DDC offsite, well resume tomorrow at 08:30. C. Peters offsite.

Recorded By: Chris Peters/CH2M HILL

CH2M HILL Daily Summary

Day/Date: Tuesday, August 31, 2004 **Project:** Ave Maria
Project No.: 316301 **Contractor:** Diversified Drilling Corporation (DDC)
Client: Ave Maria Town & University **Well No:** P-1

P-1	
Activity:	Site Preparation, Mud Rotary Drilling, Surface Casing Installation Activities
Starting Depth:	Surface
Ending Depth:	20 feet bls.
Materials used:	Drilling Mud & 30 Bags of Neat Cement

09:20 C. Peters arrives onsite at P-1. DDC onsite. Prep to mix/hydrate drilling mud.
11:00 DDC starts mixing/hydrating drilling mud.
11:25 DDC start drilling activities
12:40 DDC at 20 feet bls. Circulate hole to remove cuttings. Prep surface casing.
13:25 Surface casing hanging over bore hole.
13:28 Surface casing lowered in bore hole.
14:05 DDC start mixing grout. Tremie pipe set at 18 feet bls.
14:07 DDC start pumping grout.
14:12 Cement returns note at surface. Total of 30 bags pumped.
14:30 DDC and C. Peters offsite.

Recorded By: Chris Peters/CH2M HILL

CH2M HILL Daily Summary

Day/Date: Wednesday, September 1, 2004 **Project:** Ave Maria
Project No.: 316301 **Contractor:** Diversified Drilling Corp.
Client: Ave Maria Town & University **Well No:** P-1

P-1	
Activity:	Resume drilling 8-inch nominal pilot hole utilizing mud rotary drilling methods, conduct first geophysical logging event, and ream 8-inch pilot hole to 19-inch diameter hole using mud rotary drilling.
Starting Depth:	20 feet bls
Ending Depth:	~64 feet bls

07:35 C. Ivery enroute to Ave Maria. Call Ross/DDC. Informed of H&S inspection. DDC to resume drilling activities.
 09:40 C. Ivery onsite. Andrew Ozolnieks/CCI/BSU & Alan Cyrier/CCI/ATL onsite to conduct H&S inspection.
 10:00 DDC currently at 64 feet bls. DDC prep for Geophysical Logging Event.
 10:20 Steve Miller/MV geophysical onsite to conduct gamma/caliper and dual induction/SP logs.
 1035 Andrew and Alan offsite. Start gamma/caliper logs.
 1110 End gamma/caliper logs and start dual induction/SP logs.
 1230 Obtained logs from Steve Miller.
 1240 Steve Miller offsite. DDC prep for reaming bore hole and setting of casing tomorrow.
 1400 DDC reamed 8-inch pilot hole to 19-inch diameter hole using mud rotary drilling from ~ 20 feet bls to ~32 feet bls. C. Ivery to complete lithology description from surface to ~64 feet bls and then emails logs and lithology description to P. Larkin and M. Weatherby.

Recorded By: Carlton Ivery/CH2M HILL

CH2M HILL Daily Summary

Day/Date: Thursday, September 2, 2004 **Project:** Ave Maria
Project No.: 316301 **Contractor:** Diversified Drilling Corp.
Client: Ave Maria Town & University **Well No:** P-1

P-1	
Activity:	Ream 8-inch pilot hole to 19-inch diameter hole using mud rotary drilling from 32 feet bls to ~62 feet bls. Secure site in preparation for Hurricane Frances
Starting Depth:	32 feet bls
Ending Depth:	62 feet bls

0700 DDC onsite prep for reaming after making final adjustments to drill rig.
0730 C. Ivery onsite.
0745 DDC resume reaming activities.
0927 Reaming activities completed. DDC currently circulating mud to clean out bore hole.
1030 All activities completed. Drill mast lowered and site secured in preparation for Hurricane Frances. All personnel offsite.

Recorded By: Carlton Ivery/CH2M HILL

CH2M HILL Daily Summary

Day/Date: Friday, September 3, 2004 **Project:** Ave Maria
Project No.: 316301 **Contractor:** Diversified Drilling Corp.
Client: Ave Maria Town & University **Well No:** P-1

P-1	
Activity:	Hurricane Charley - No Activities

0700- No activity due to Hurricane Charley.
1700

Recorded By: Carlton Ivery/CH2M HILL

CH2M HILL Daily Summary

Day/Date: Monday, September 6, 2004 **Project:** Ave Maria
Project No.: 316301 **Contractor:** Diversified Drilling Corporation (DDC)
Client: Ave Maria Town & University **Well No:** P-1

P-1	
Activity:	Holiday & Hurricane Charley - No Activities

0700- No activity due to Hurricane Charley.
1700

Recorded By: Carlton Ivery/CH2M HILL

CH2M HILL Daily Summary

Day/Date: Tuesday, September 7, 2004 **Project:** Ave Maria
Project No.: 316301 **Contractor:** Diversified Drilling Corporation (DDC)
Client: Ave Maria Town & University **Well No:** P-1

P-1	
Activity:	Hurricane Charley - No Activities

0700- No activity due to Hurricane Charley.
1700

Recorded By: Carlton Ivery/CH2M HILL

CH2M HILL Daily Summary

Day/Date: Wednesday, September 8, 2004	Project: Ave Maria
Project No.: 316301	Contractor: Diversified Drilling Corp.
Client: Ave Maria Town & University	Well No: P-1

P-1	
Activity:	Set 61 feet of 12-inch SDR-17 PVC Casing.
Starting Depth:	surface
Ending Depth:	61
Materials used:	61 feet of 12-inch SDR-17 PVC Casing and 45 bags of neat cement.

0715 DDC onsite. Prep casing and perform clean swipe of bore hole.

0910 C. Ivery onsite. DDC continue preparation to set casing (61')

0930 Lead drill bit and rods pulled

0945 1st section (20') lowered. Centered on near bottom.

0951 Connecting sections 1 and 2

0957 Lowering sections 1 and 2

1000 Connecting sections 2 and 3

1003 Lowering sections 2 and 3

1010 Cement header connected

1012 Prep for cementing casing.

1020 Cement line set at 64' BLS

1043 Mixing cement

1045 Start pumping neat cement

1047 Wt = 15.2 lbs/gal; press. = 0

1051 Wt = 15.1 lbs/gal. Sample collected. Pressure = 5 psi

1056 Wt. = 15 lbs/gal. Pressure = 10 psi

1100 Pressure = 14 psi

1105 45 Bags of neat cement used. Current pressure = 17 psi.

1107 DDC pumping chase. No return noted at surface. DDC to top off tomorrow.

1115 Valve at header won't close. Pressure = 15 psi. DDC to leave line connected to air pump to maintain pressure.

1120 DDC placed plug at end pump hose. Disconnected from air pump.

Recorded By: Carlton Ivery/CH2M HILL

CH2M HILL Daily Summary

Day/Date: Thursday, September 9, 2004 **Project:** Ave Maria
Project No.: 316301 **Contractor:** Diversified Drilling Corp.
Client: Ave Maria Town & University **Well No:** P-1

P-1	
Activity:	Mud Rotary/Reverse Air Drilling Activities and Casing Cementing Activities
Starting Depth:	59' BLS
Ending Depth:	82.5' BLS
Materials used:	5 Bags of Neat Cement.

0830 DDC onsite. Prep to tag cement and switch to RA drilling.

0930 DDC tagged annulus cement depth at ~11' BLS. Prep to tag inner casing cement depth and mud drill to ~64' BLS before switching over to RA.

0955 Tagged inner cement depth at 59' BLS. DDC start mud rotary drilling. Will drill to ~ 65' BLS then switch to RA drilling.

1045 DDC at bottom (~65'). Switched to RA drilling.

1120 DDC near 70' BLS with RA drilling

1135 DDC at 75' BLS. Cutting sample collected 64-75'. Prep to perform Spec. capacity test.

1152 SWL at 75' BLS = 7.40

1202 PWL = 8.7 BLS; Q=86 gpm; Spec. Capacity = 65.38

1205 Resume RA drilling

1207 At 75'BLS: Cond. = 731 µm/cm @ 26.7°C and Spec. Cond = 705 µm/cm°C @ 26.7°C; pH = 8.07

1230 At 82.5' BLS limestone and clayey sand. Contact Mike Weatherby. Will perform Spec. capacity test and stop well here.

1242 At 82.5' BLS: SWL = 7.40 @ 82.5' BLS

1255 At 82.5' BLS: PWL = 8.45; Q = 95 gpm; Spec. Capacity = 90. Spec. Cond = 703 µm/cm°C @ 26.0°C; Cond = 716µm/cm @ 26.0°C; pH = 7.79 @ 26.6°C

1307 DDC prep for cementing annulus. Currently developing well/bore hole using RA.

1415 RA development stops. Prep to fill annulus ~ 2' BLS.

1417 Start mixing 5 bags of cement

1430 Pumping cement complete.

Recorded By: Carlton Ivery/CH2M HILL

CH2M HILL Daily Summary

Day/Date: Friday, September 10, 2004 **Project:** Ave Maria
Project No.: 316301 **Contractor:** DDC
Client: New Town Development **Well No:** P-1

P-1

Activity:	Airlift Development and Hurricane Ivan Preparation Activities.
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- 0915 Onsite at P-1. DDC tag annulus. Cement depth ~ 2'BLS. DDC prep for airlift. Development of P-1. Also pick up and clean area/Drill sites in preparation for Hurricane Ivan.
- 1035 DDC conduct misc. setup and repair activities in preparation airlift development.
- 1200 Airlift development activities initiated. DDC proceed to "stub up" P-2 & P-3 casing above permit required elevation.
- 1440 Airlift development activities completed. DDC prep to move airlift development equipment (header, air compressor, etc.,) to P-3 and setup for airlift development activities
- 1525 Drill sites (P-1, P-2, & P-3) policed and secured. Drill mast lowered. All in preparation for Hurricane Ivan. All personnel offsite.

Recorded By: Carlton Ivery/CH2M HILL

Exhibit 1

P-1 Sand Quantity Results

Ave Maria Town & University, Immoklee Florida

Surge Time	Sand Quantity (mL) per 1 L of Water						Calculated Flowrate				Specific Conductance (ms/cmC ⁰)	Temperature (C ⁰)
	1 min Prior to Surging	1 min After Surging	2 min After Surging	3 min After Surging	4 min After Surging	5 mins After Surging	A1 (Inches)	A2 (Feet)	Q1 (Gal/Mins) ¹	Q2 (Gal/Mins) ²		
10-Sep-2004												
12:05 - 12:20	-----	1	2	0.5	0.6	0.2	7	0.58	752	752	714	25.2
12:30 - 12:40	0.9	0.7	1	0.5	0.3	0.2	7	0.58	752	752	710	25.6
12:47 - 12:58	0.1	0.1	0.05 - Light Film/Few Grains On Bottom	0.1	<0.05 - Almost Non Detect	<0.05 - Almost Non Detect	6.5	0.54	900	900	707	25.7
13:10 - 13:27	0.1	0.05 - Light Film/Few Grains On Bottom	0.1	0.05 - Light Film/Few Grains On Bottom	0.05 - Light Film/Few Grains On Bottom	<0.05 - Almost Non Detect	7	0.58	752	752	705	25.6
13:40 -13:55	<0.05 - Almost Non Detect	<0.05 - Almost Non Detect	<0.05 - Almost Non Detect	Not Detected	<0.05 - Almost Non Detect	Not Detected	7	0.58	752	752	700	26
13:52 - 14:05	0.05 - Light Film/Few Grains On Bottom	<0.05 - Almost Non Detect	0.05 - Light Film/Few Grains On Bottom	0.05 - Light Film/Few Grains On Bottom	<0.05 - Almost Non Detect	Not Detected	7	0.58	752	752	703	25.8
14:20 - 14:30	Not Detected	<0.05 - Almost Non Detect	Not Detected	<0.05 - Almost Non Detect	Not Detected	Not Detected	7.5	0.63	617	617	705	25.9

--- No Data Collected

Missouri Water Well Manual¹

$Q \text{ (gpm)} = 8.22(D-A)^{1.88} \times D^{0.6}$: Where Q = Q1, A = A1, and D = 12 inches

Note: A = A1 = 0 For Full Pipe

Circular Wier²

$Q \text{ (ft}^3\text{/s)} = 8.69(1 - A/D)^{1.88} \times D^{2.48}$:Where A = A2, and D = 1 foot

$Q2 \text{ (gpm)} = 449 \times Q$

CH2M HILL Daily Summary

Day/Date: Tuesday, September 14, 2004 **Project:** Ave Maria
Project No.: 316301 **Contractor:** Diversified Drilling Corp.
Client: Ave Maria Town & University **Well No:** P-1 & P-3

P-3

Activity: Conduct Final Video Log.

1400 All personnel mob to P-3 to conduct video log.
1425 At P-3, prep to video well.
1553 Video of P-3 complete, awaiting printout of P-1 logs and videos for P-1 and P-3. DDC prep to secure area at P-1.
1605 DDC offsite
1630 Logs obtained from Steve Miller
1640 C. Ivery and S. Miller offsite

P-1

Activity: Conduct Final Geophysical Logging Event #2

0730 C. Ivery onsite. DDC prep for Static and Dynamic logging event.
0750 Steve Miller onsite. Prep for Static and Dynamic logs. SWL = 7.42 feet BTOC
0815 Start static logs (caliper/gamma, dual induction, & fluid conductivity temperature/fluid resistivity temperature)
1000 Static logs (caliper/gamma, DI, & FCT/FRT) successfully completed. Prep to conduct dynamic logs (flow meter & video), however, centrifugal pump failure.
1020 Contact P. Larkin to discuss DDC request to use total of three trash pumps to pump well, since they could not repair the onsite centrifugal pump or find another pump.
1150 DDC personnel with two 2-inch trash pumps.
1205 Pumping using three (two 2-inch and one 3-inch) trash pumps. Combine flowrate ~ 450 gpm.
1208 PWL ~ 14.9 feet BTOC.
1310 Start dynamic logs.
1400 Dynamic logs successfully completed.

Recorded By: Carlton Ivery/CH2M HILL

CH2M HILL Daily Summary

Day/Date: Wednesday, September 15, 2004 **Project:** Ave Maria
Project No.: 316301 **Contractor:** Diversified Drilling Corp.
Client: Ave Maria Town & University **Well No:** P-1, P-2 & P-3,

P-1, P-2 & P-3,	
Activity:	Limited Misc. Demobilization and Pump Test Setup Activities

0730- DDC begin misc. demobilization and pump test setup activities. Cleaned out cuttings tank
1600 cleaned drill sites and moved all heavy equipment to P-3 area. Limited CH2M HILL site coverage provided by Andrew O. and C. Ivery (via phone).

Recorded By: Carlton Ivery/CH2M HILL

CH2M HILL Daily Summary

Day/Date: Thursday, September 16, 2004 **Project:** Ave Maria
Project No.: 316301 **Contractor:** Diversified Drilling Corp.
Client: Ave Maria Town & University **Well No:** P-1, P-2 & P-3,

P-1, P-2 & P-3,	
Activity:	Limited Misc. Demobilization and Pump Test Setup Activities

0730- DDC continued misc. demobilization and pump test setup activities. Worked in shop
1600 preparing pump and other misc., equipment for pump test and removed cutting tank from Ave Maria site. No CH2M HILL Coverage.

Recorded By: Carlton Ivery/CH2M HILL

CH2M HILL Daily Summary

Day/Date: Thursday, September 16, 2004 **Project:** Ave Maria
Project No.: 316301 **Contractor:** Diversified Drilling Corp.
Client: Ave Maria Town & University **Well No:** P-1

P-1	
Activity:	Continued Pump Test Setup Activities

0730- DDC continued pump test setup activities. Set submersible pump ~ 50 feet bls. Set up
1600 discharge line for pump test Limited CH2M HILL site coverage provided by C. Ivery (via
phone).

Recorded By: Carlton Ivery/CH2M HILL

CH2M HILL Daily Summary

Day/Date: Monday, September 20, 2004 **Project:** Ave Maria
Project No.: 316301 **Contractor:** Diversified Drilling Corp.
Client: Ave Maria Town & University **Well No:** P-1

P-1	
Activity:	Continued Pump Test Setup Activities

0730- DDC continued pump test setup activities. DDC connect up orifice tube to discharge line to
1600 measure flowrate. Installed mini trolls in P-1, P-2, & P-3. Marked flowrate settings for pump
test tomorrow, 21 Sep 04.

Recorded By: Pete Larkin/CH2M HILL

CH2M HILL Daily Summary

Day/Date: Tuesday, September 21, 2004 **Project:** Ave Maria
Project No.: 316301 **Contractor:** Diversified Drilling Corporation (DDC)
Client: Ave Maria Town & University **Well No:** P-1

P-1	
Activity:	Variable Rate Pump Test

0830 Pete Larkin onsite.

0900 Prepare for pump test. Static Water level = 10.93 bmp (6.63 feet bls). Flow will be measured using 12" pipe orifice. Check dimensions and set up of pipe orifice.

0930 Begin step 1. 550 gpm

0940 Test for sand with Imhoff Cone = non detect (ND)

1120 Specific capacity = 50 gpm/ft at 550 gpm.

1125 Begin Step 2. 750 gpm.

1130 No sand detected.

1230 Specific capacity = 40 gpm/ft at 750gpm.

1230 Start step 3. 1020 gpm.

1310 No sand detected. Sander Laboratory onsite to collect background sample.

1325 Specific capacity = 37 gpm/ft at 1020 gpm.

1335 Begin step 4. 1190 gpm.

1341 Trace sand detected (few grains)

1345 Specific capacity = 34 gpm/ft at 1190 gpm.

1430 C. Ivery onsite. Pump test at P-1 in progress and monitoring tests at P-2 & P-3. Meet w/Pete Larkin to review testing procedures and to discuss/review status of current test.

1500 P. Larkin offsite

1539 Stop Step 4 Test and begin Recovery Test.

1610 Area and well secured. All personnel offsite. C. Ivery to meet w/Pete Larkin to return laptop, load Win-situ Program on C. Ivery's laptop, and transfer edata.

Recorded By: Pete Larkin/CH2M HILL & Carlton Ivery/CH2M HILL

CH2M HILL Daily Summary

Day/Date: Wednesday, September 22, 2004	Project: Ave Maria
Project No.: 316301	Contractor: Diversified Drilling Corp.
Client: Ave Maria Town & University	Well No: P-1 & P-3

P-1, & P-3	
Activity:	P-1: Conclude Long Term Pump Test; P-3: Setup to Conduct Long Term Pump Test and Groundwater Sampling Event.

- 0730 C. Ivery onsite. DDC prep to pull pump and transducer probe from P-1. Will reset probe back in P-1 and move pump to P-3.
- 0800 Contact P. Larkin, experiencing problems with laptop computer connecting to P-1 probe.
- 0835 C. Ivery offsite. Enroute to purchase additional equipment to connect laptop to probes. DDC to pull pump and set in P-3 due to Sander Lab's eta of 1100 am.
- 1000 C. Ivery still searching for proper communication adapter. Received called from Sanders Lab, eta of 13:00.
- 1115 C. Ivery onsite. DDC completed pump test preparation at P-3.
- 1130 Due to remaining time (front gate locked at 1700) decision made to postpone pump test until tomorrow, 23 Sep 04. Not enough time to conduct full 6-hour pump test
- 1150 DDC set submersible pump at intake at 43 feet BTOC and probe set at 40 feet BTOC. Well currently pumping at 662 gpm.
- 1245 Sanders Lab onsite, prep to collect groundwater samples from P-3.
- 1315 Sanders Lab complete sampling activities
- 1322 Pump off and Monitoring Event #1 Test stopped. DDC prep to pull transducer. C. Ivery to take transducer and meet with Pete Larkin to review data and test purchased communication devise adapter.
- 1400 All personnel offsite.

Recorded By: Pete Larkin/CH2M HILL & Carlton Ivery/CH2M HILL

CH2M HILL Daily Summary

Day/Date: Thursday, September 23, 2004 **Project:** Ave Maria
Project No.: 316301 **Contractor:** Diversified Drilling Corp.
Client: Ave Maria Town & University **Well No:** P-1, P-2 & P-3

P-1, P-2 & P-3	
Activity:	Conduct Long-term Pump Test at P-3 and Monitoring Event Tests at P-1 & P-2.

- 0835 C. Ivery onsite at P-3. DDC policing area and working on support truck.
- 0840 C. Ivery enroute to stop Recovery Test at P-1 and stop Event Test at P-2. Will start Event #2 Test at P-1 and P-2.
- 0846 P-1: Event #1 Monitoring Test stopped and Event # 2 Monitoring Test started.
- 0854 P-2: Event #1 Monitoring Test stopped and Event # 2 Monitoring Test started.
- 0920 P-3: SWL = 7.59 feet BTOC.
- 1000 P-3: Start Step 1 Test. Probe currently logging.
- 1001 Pump on currently pumping 500 gpm (10"). Submersible pump intake set at 43 feet BTOC while transducer probe set at 40' BTOC.
- 1609 DDC shutdown pump and generator. Recovery test initiated.
- 1620 DDC offsite. CI off site to prep and submit field recorded pump test data.
- .

Recorded By: Carlton Ivery/CH2M HILL

CH2M HILL Daily Summary

Day/Date: Friday, September 24, 2004 Project: Ave Maria
Project No.: 316301 Contractor: Diversified Drilling Corp.
Client: Ave Maria Town & University Well No: P-1, P-2 & P-3

P-1, P-2 & P-3	
Activity:	Conduct Long-term Pump Test at P-2 and Monitoring Event Tests at P-1 & P-3.

0700 DDC onsite. Prep to pull pump from P-3 and set pump in P-2. DDC to reset transducer probe in P-3. Probe pulled during removal of pump.

0900 C. Ivery onsite at P-2. DDC continue preparation. Pump intake set at ~ 53 feet BTOF and probe set at ~ 50 feet BTOF.

0912 - P-3: Recovery Test stopped and Event # 2 Monitoring Test started.
0915

0922 - P-1: Event # 2 Monitoring Test stopped and Event # 3 Monitoring Test started.
0925

0936 P-2: Morning SWL = 13.53 feet Was Measured From Top of 3/4-inch Riser Pipe = 11.53 Feet Top of Flange

0950 P-2: Start Step 1 Test. Probe currently logging.

0951 Pump on currently pumping 500 gpm (10"). Submersible pump intake set at 43 feet BTOC while transducer probe set at 40' BTOC.

1603 DDC shutdown pump and generator. Recovery test initiated.

1625 DDC offsite. CI off site to prep and submit field recorded pump test data.

Recorded By: Carlton Ivery/CH2M HILL

CH2M HILL Daily Summary

Day/Date: Monday, September 27, 2004 **Project:** Ave Maria
Project No.: 316301 **Contractor:** Diversified Drilling Corp.
Client: Ave Maria Town & University **Well No:** P-1, P-2 & P-3,

P-1, P-2 & P-3,	
Activity:	Limited Misc. Demobilization Activities

0730- DDC begin misc. sitewide demobilization activities. Removed submersible pump from P-2.
1600 Picked and demob drill rig from site.

Recorded By: Carlton Ivery/CH2M HILL

CH2M HILL Daily Summary

Day/Date: Tuesday, September 28, 2004 **Project:** Ave Maria
Project No.: 316301 **Contractor:** Diversified Drilling Corp.
Client: Ave Maria Town & University **Well No:** P-1, P-2 & P-3

P-1, P-2, & P-3

Activity:	Competed Pump Test Activities and Continued Site Demobilization Activities.
------------------	---

0925 C. Ivery enroute to Ave Maria Project Site.

1145 C. Ivery onsite. DDC to arrive within the next 1-2 hours. C. Ivery prep to stop all tests at P-1, P-2, and P-3.

1205 *P-1:* Event # 3 Monitoring Test stopped.

1214 *P-2:* Recovery Log Test stopped.

1225 *P-3:* Event # 2 Monitoring Test stopped.

1243 *P-3:* Pulled and packed probe for shipment to Tampa and Gainesville Offices

1302 *P-2:* Pulled and packed probe for shipment to Tampa and Gainesville Offices

1315 *P-1:* Pulled and packed probe for shipment to Tampa and Gainesville Offices. Waiting arrival of DDC.

1320 DDC onsite. Unload misc. supplies to support barricades around each well and continue demob activities.

1400 DDC load submersible pump and continue demob activities. C. Ivery offsite.

Recorded By: Carlton Ivery/CH2M HILL

CH2M HILL Daily Summary

Day/Date: Wednesday, September 29, 2004 **Project:** Ave Maria
Project No.: 316301 **Contractor:** Diversified Drilling Corp.
Client: Ave Maria Town & University **Well No:** P-1, P-2 & P-3

P-1, P-2, & P-3

Activity:	Well Security and Protection Activities
------------------	---

0800 - DDC onsite to place protective barricades around each well. Four 4-inch diameter PVC
1500 casing/post to be placed around each well. Each casing/post to be filled with concrete.
Orange plastic fencing to be wrapped around the posts. No CH2M HILL site coverage.

Recorded By: Carlton Ivery/CH2M HILL

CH2M HILL Daily Summary

Day/Date: Wednesday, October 6, 2004 Project: Ave Maria
Project No.: 316301 Contractor: Diversified Drilling Corp.
Client: Ave Maria Town & University Well No: P-1, P-2 & P-3

P-1, P-2, & P-3

Activity: Final Inspection Activities.

- 0840 C. Ivery enroute to drop off drill cuttings (chip trays) for Pete Larkin at Ft. Myers field office.
- 1400 C. Ivery onsite. Prep for final inspection and check security of well.
- 1500 C. Ivery offsite. DDC water and mud trucks remain onsite. Area cleaned and secured.

Recorded By: Carlton Ivery/CH2M HILL



Photo 1
Standing East of P-1 Along Entrance Road
and Facing West.



Photo 2
Standing East of P-2 and Facing West.



Photo 3
Side View -Standing West of P-3 and Facing
East Toward Roadway.

APPENDIX D

Lithologic Description of Formation Samples

Well Name: P-1
Location: Ave Maria
Contractor: Diversified Drilling Contractors
Drilling Method: Mud-Rotary / Reverse-air
Bit-Size: 7.875-inch to 62 ft bls 11.25-inch to 82 ft bls
Total Depth: 82 feet bls
Casing Depth: 61 feet bls
Resident Observer: Carlton Ivery/CH2M HILL



CH2MHILL

From:	To:	Production Well P-1 Lithologic Description
0	10	SAND pale yellowish brown (10YR 6/2) to moderate yellowish brown (10YR 5/4), very fine grained, well consolidated, high porosity, minor shell fragments near 10 feet.
10	20	LIMESTONE yellowish gray (5Y 7/2), med fine to coarse grained, moderate to high consolidation and porosity.
20	30	LIMESTONE As Above with minor shell fragments.
30	40	CLAY, pale olive (10Y 6/2), marly, pasty, low to moderate plasticity and consolidation.
40	50	CLAY grayish olive (10Y 4/2), pasty, moderate to high plasticity and consolidation, pasty.
50	60	CLAY (80%) grayish olive (10Y 4/2), pasty, low to moderate plasticity and consolidation; LIMESTONE (20%), greenish gray (5GY 6/1), med fine to coarse grained, low consolidation and porosity.
60	64	LIMESTONE, greenish gray (5GY 6/1), med fine to coarse grained, moderate to high consolidation and porosity.
64	75	LIMESTONE yellowish gray (5Y 7/2), med fine to coarse grained, moderate to high consolidation and porosity.
75	82	LIMESTONE, As above.

Note: Depths are referenced to existing land surface

Well Name: P-2
Location: Ave Maria
Contractor: Diversified Drilling Contractors
Drilling Method: Mud-Rotary / Reverse-air
Bit-Size: 7.875-inch to 62 ft bls 11.25-inch to 83 ft bls
Total Depth: 83 feet bls
Casing Depth: 59 feet bls
Resident Observer: Carlton Ivery/CH2M HILL



CH2MHILL

From:	To:	Production Well P-2 Lithologic Description
0	10	SAND pale yellowish brown (10YR 6/2) to moderate yellowish brown (10YR 5/4), very fine grained, well consolidated, high porosity, minor shell fragments near 10 feet.
10	20	LIMESTONE yellowish gray (5Y 7/2), med fine to coarse grained, moderate to high consolidation and porosity.
20	30	LIMESTONE As Above with minor shell fragments.
30	40	CLAY pale olive (10Y 6/2), pasty, low to moderate plasticity and consolidation; LIMESTONE (5%), yellowish gray (5Y 7/2), med to coarse grained, low consolidation and porosity.
40	50	CLAY pale olive (10Y 6/2), pasty, low to moderate plasticity and consolidation, with minor limestone fragments.
50	58	CLAY As Above
58	62	LIMESTONE yellowish gray (5Y 7/2), med fine to coarse grained, moderate to high consolidation and porosity.
62	70	LIMESTONE yellowish gray (5Y 7/2) to med gray (N5), very fine to med grained, high consolidation and porosity.
70	80	LIMESTONE yellowish gray (5Y 7/2) to very light gray (N8), very fine to med grained, high consolidation and porosity, trace shell fragemnts.
80	83	LIMESTONE (50%) yellowish gray (5Y 7/2) to very light gray (N8), very fine to med grained, high consolidation and porosity from 80-81 ft bls; SAND (45%) very light gray (N8) to med gray (N5), very fine grained, well consolidated, mod to high porosity from 81 ft bls.

Note: Depths are referenced to existing land surface

Well Name: P-3
Location: Ave Maria
Contractor: Diversified Drilling Contractors
Drilling Method: Mud-Rotary
Bit-Size: 7.875-inch
Total Depth: 200 feet bls
Resident Observer: Carlton Ivery/CH2M HILL



From:	To:	Production Well P-3 Lithologic Description
0	10	SAND pale yellowish brown (10YR 6/2), fine grained, well consolidated, high porosity.
10	20	LIMESTONE (95%) very pale orange (10YR 8/2) to yellowish gray (5Y 7/2), med to coarse grained, low to moderate consolidation and porosity. Sand (5%), As Above.
20	30	CLAY (95%), marly, pale olive (10Y 6/2), pasty, low plasticity, low to moderate consolidation; LIMESTONE (5%), yellowish gray (5Y 7/2), fine to med grained, low consolidation and porosity.
30	40	CLAY (95%), marly, pale olive (10Y 6/2), pasty, low to moderate plasticity and consolidation; LIMESTONE (5%), yellowish gray (5Y 7/2), fine to med grained, low consolidation and porosity.
40	50	CLAY grayish olive (10Y 4/2), moderate to high plasticity, slightly pasty, moderate consolidation, dark greenish gray lenses, trace phosphates.
50	60	LIMESTONE (80%) yellowish gray (5Y 7/2), med to coarse grained, low to moderate consolidation and porosity; CLAY(20%) grayish olive (10Y 4/2), moderate to high plasticity, slightly pasty, moderate consolidation, dark greenish gray lenses, trace phosphates.
60	70	LIMESTONE (95%) yellowish gray (5Y 7/2), med to coarse grained, low to moderate consolidation and porosity, trace shell fragments; CLAY(5%) grayish olive (10Y 4/2), moderate to high plasticity, slightly pasty, moderate consolidation, dark greenish gray lenses, trace phosphates.
70	80	LIMESTONE yellowish gray (5Y 7/2), med to coarse grained, low to moderate consolidation and porosity, trace shell fragments and phosphates.
80	90	SANDY CLAY (85%) olive gray (5Y 4/1) to dark greenish gray (5GY 4/1), low to moderate plasticity, slightly pasty, fine to medium quartz sand; LIMESTONE (15%) yellowish gray (5Y 7/2), med to coarse grained, low to moderate consolidation and porosity, trace shell fragments and phosphates.
90	100	SANDY CLAY pale olive gray (10Y 6/2) to greenish gray (5GY 6/1), low plasticity, slightly pasty, very fine sand grained, moderate to high consolidation, low porosity.
100	110	SANDY CLAY, As Above.
110	120	SANDY CLAY (95%) dusky yellow green (5GY 5/2) with greenish gray (5G 6/1) lenses, low to moderate plasticity, slightly pasty, very fine grained sand, moderate to high consolidation; LIMESTONE (<5%) yellowish gray (5Y 7/2), fine to med grained, low consolidation and porosity.
120	130	SANDY CLAY (95%) dusky yellow green (5GY 5/2) with greenish gray (5G 6/1) lenses, low to moderate plasticity, slightly pasty, very fine grained sand, moderate to high consolidation; LIMESTONE (<5%) yellowish gray (5Y 7/2), med fine to coarse grained, low consolidation and porosity.
130	140	CLAY (70%), marly, pale olive (10Y 6/2) to greenish gray (5GY 6/1), pasty, low plasticity, low to moderate consolidation; LIMESTONE (25%) and SHELL (5%), yellowish gray (5Y 7/2), fine to med grained, low consolidation and porosity.
140	150	SHELL (40%) and LIMESTONE (35%), pale greenish yellow (10Y 8/2) to yellowish gray (5Y 7/2), fine to med grained, low consolidation and porosity; CLAY (25%), marly, pale olive (10Y 6/2) to greenish gray (5GY 6/1), pasty, low plasticity.
150	160	SANDY CLAY pale olive (10Y 6/2) to greenish gray (5GY 6/1), pasty, moderate to high plasticity, moderate consolidation, minor limestone and shell fragments.
160	170	SANDY CLAY, As Above.
170	180	CLAY As Above with color change greenish gray (5GY 6/1) to yellowish gray (5Y 7/2)
180	190	CLAY As Above with color change greenish gray (5GY 6/1), stiff, trace phosphates.
190	200	CLAY As Above with color change pale olive (10Y 6/2), stiff with fine to medium sand grained lenses, trace phosphates.

Note: Depths are referenced to existing land surface

APPENDIX E

Geophysical Logs

Well P-1

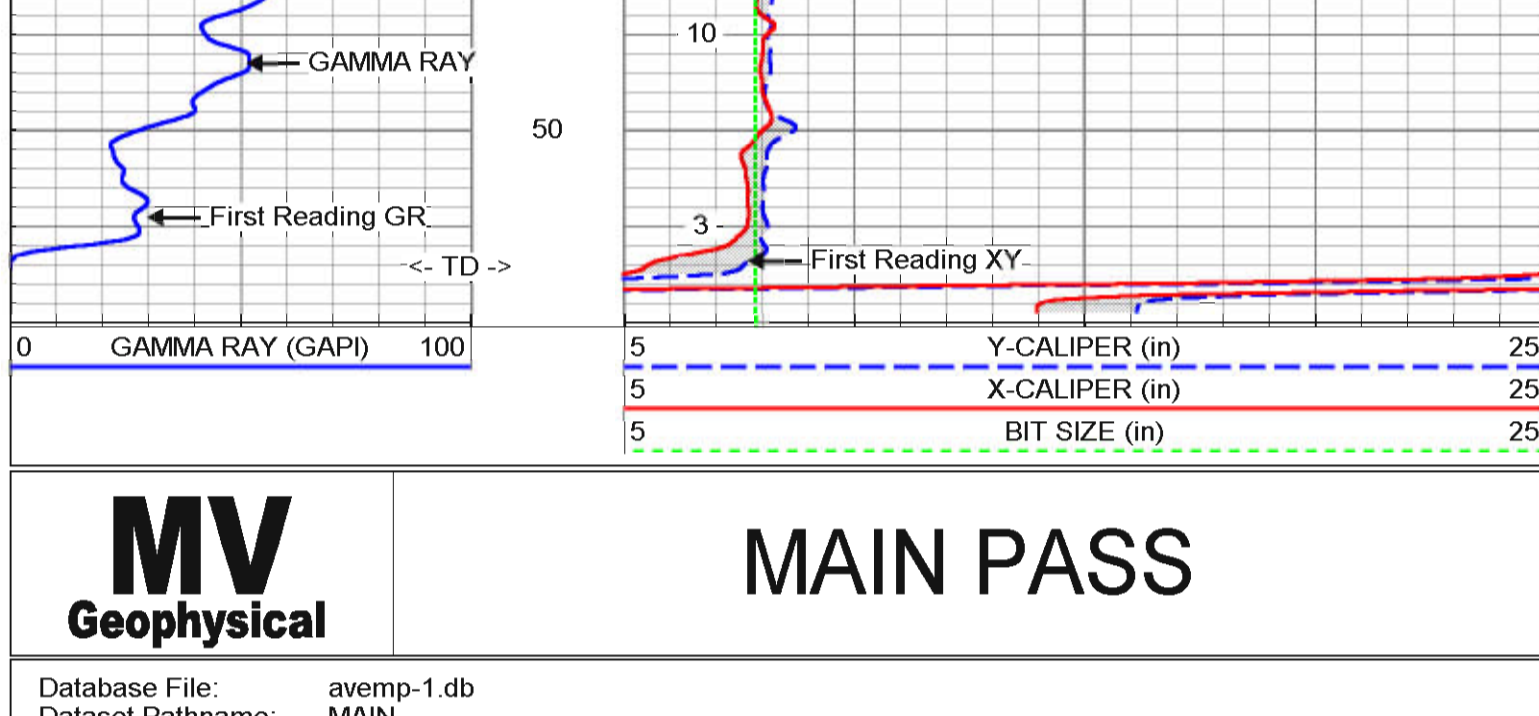
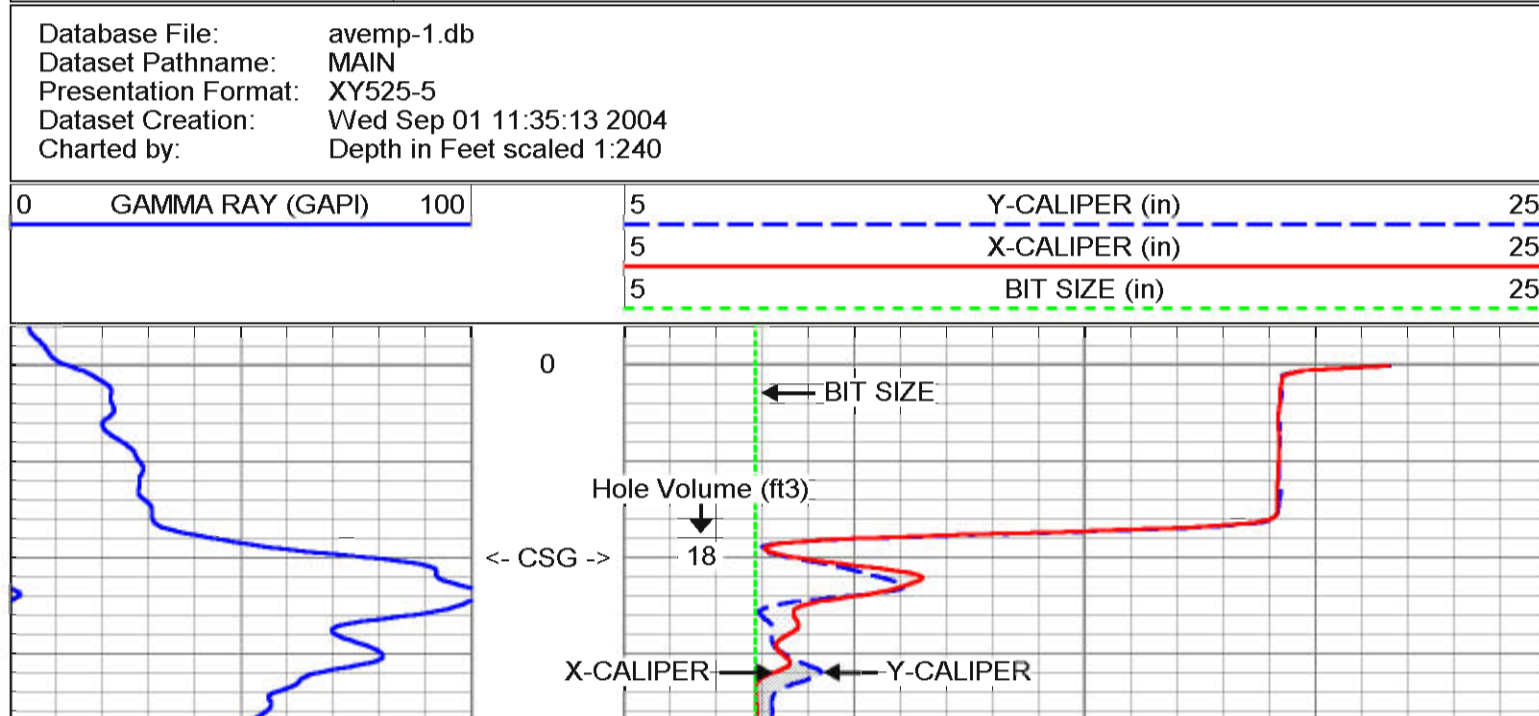
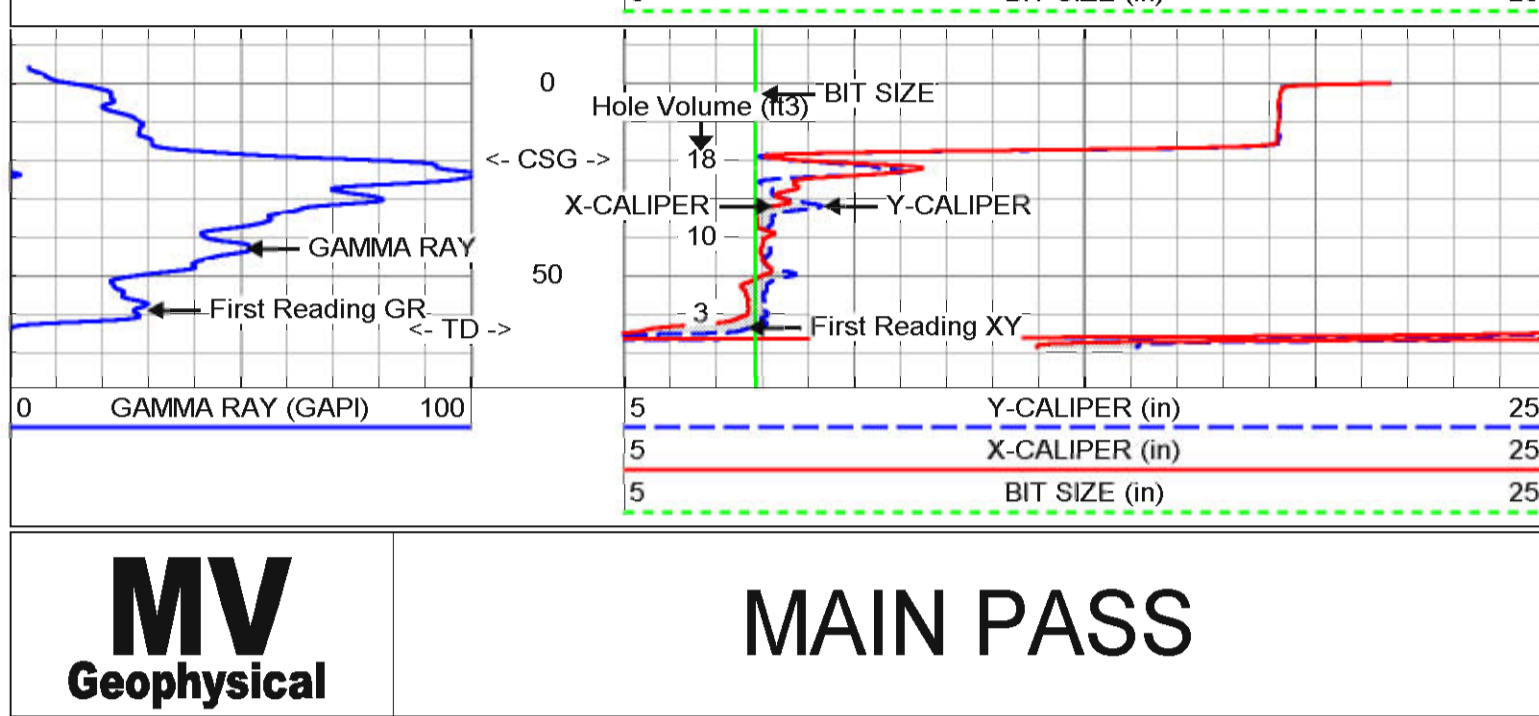
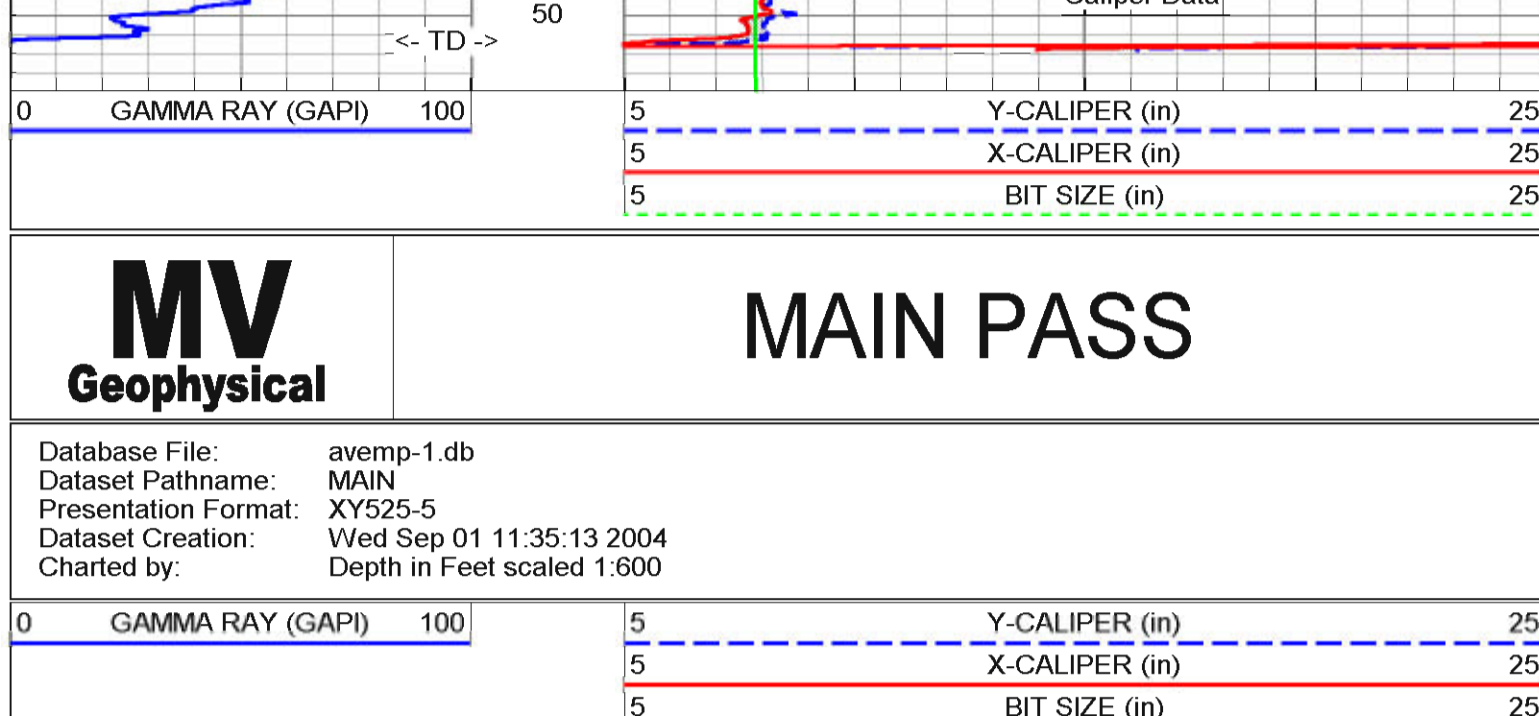
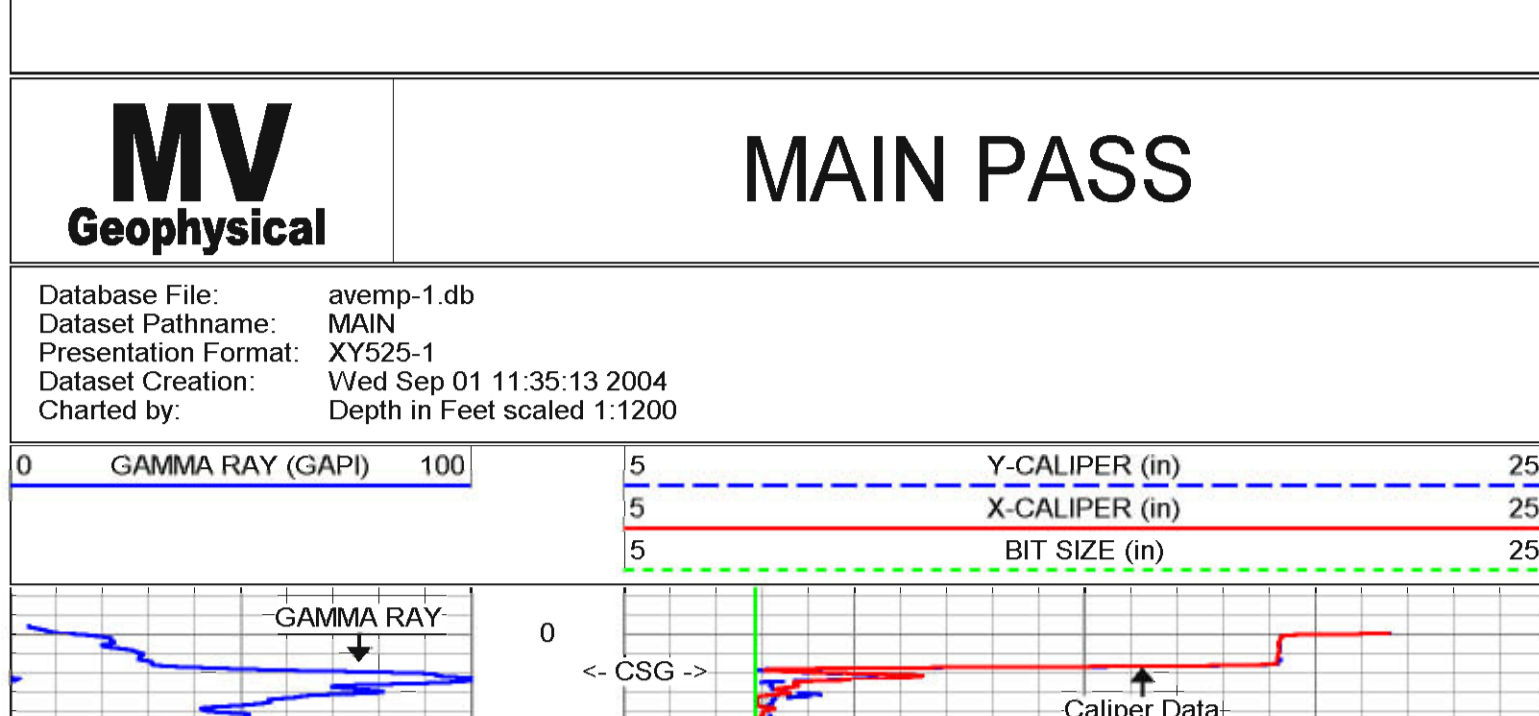
Company	Diversified Drilling Corp.	Well	Ave Maria P-1
Field	Ave Maria University	County	Collier
State/Prv	Florida	Location	Ave Maria WWTP & WTP CH2M Hill, Inc.
Company	Diversified Drilling Corporation	Well	Ave Maria P-1
Field	Ave Maria University	County	Collier
State/Prv	Florida	Location	Ave Maria WWTP & WTP CH2M Hill, Inc.
Other Services		Permanent Datum	G.L.
DULSP		Log Measured From	G.L.
		Drilling Measured From	G.L.
		Elevation	
		K/B	
		D/F	
		G.L.	
Date	1-SEP-2004	Run Number	ONE
Depth Driller	64	Depth Logger	64
Bottom Logged Interval	64	Top Log Interval	64
Open Hole Size	7.875"	Type Fluid	NWD
Density / Viscosity	NA	Max. Recorded Temp.	NA
Estimated Cement Top	NA	Time to Set (min)	NA
Time to Set (min)	NA	Time to Set (hr)	NA
Time to Set (hr)	NA	Time to Set (day)	NA
Equipment Number	M/CS-41	Location	FI Myers
Recorded By	S Miller	Witnessed By	C Inery (CH2M)
Run Number	7.875"	Bit	64
From	ONE	To	64
Size	20"	Weight	64
From	ONE	To	64
Top	YVGRF	Bottom	YVGRF
Surface String	20"	Surface String	20"
Production String	0.519 WVI	Production String	0.519 WVI
Lineer	2004130	P.O. #	
Job No.		* FIELD PRINT *	

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

X-Y Caliper Arm Extensions: 33"

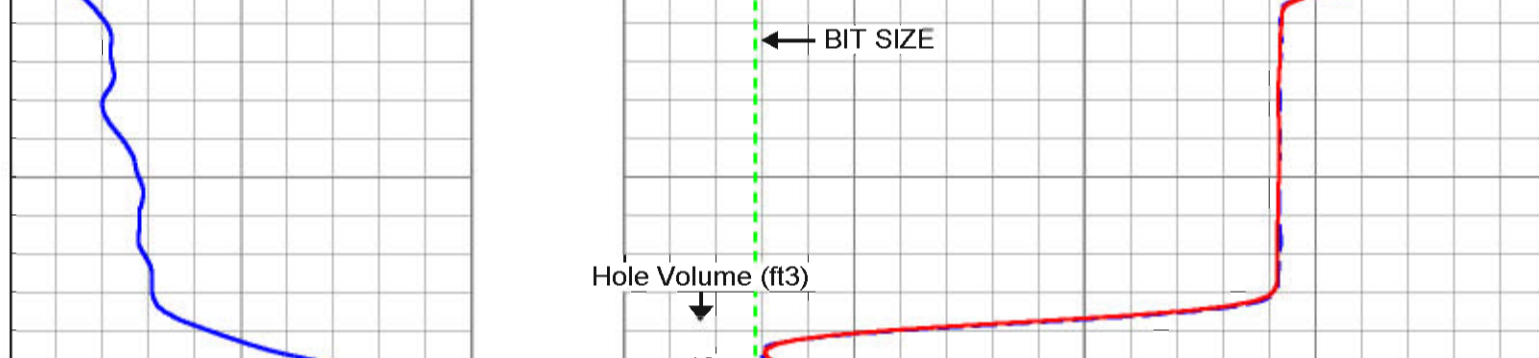


XY Caliper Calibration Report

Serial Number:	01S		
Tool Model:	XYCS		
Performed:	Wed Sep 01 11:02:38 2004		
Small Ring:	8	in	
Large Ring:	19.25	in	
	X Caliper	Y Caliper	
Reading with Small Ring:	524.805	515.38	cps
Reading with Large Ring:	694.2	697.311	cps
Gain:	0.0664128	0.0618366	
Offset:	-26.8538	-23.8694	

Gamma Ray Calibration Report

Serial Number:	01		
Tool Model:	GROH		
Performed:	Wed Sep 01 10:51:56 2004		
Calibrator Value:	120	GAPI	
Background Reading:	5.631	cps	
Calibrator Reading:	124.61	cps	
Sensitivity:	1.00858	GAPI/cps	



GR 5.00 ft

XCAL 0.50 ft

YCAL 0.50 ft

Dataset: run1/pass3
 Total Length: 9.35 ft
 Total Weight: 150.00 lb

Company: Diversified Drilling Corp.
Well: Ave Maria P-1
Field: Ave Maria University
County: Collier
Location: Ave Maria WWRP & WRP
State/Prv: Florida

Company: Diversified Drilling Corporation
Well: Ave Maria P-1
Field: Ave Maria University
County: Collier
Location: Ave Maria WWRP & WRP
State/Prv: Florida

Date: 14-SEP-2004
Run Number: TWO
Depth Driller: 82.5'
Depth Logger: 81'
Bottom Logged Interval: 01'-11'
Type Fluid: WATER
Type Fluid Viscosity: NA
Max. Recorded Temp.: NA
Estimated Cement Top: 08:00 9/14/04
Time Well Ready: 09:00 9/14/04
Equipment Number: MWGS-1
Location: Ft. Myers
Recorded By: S. Miller
Witnessed By: C. Lavery (CH2M)

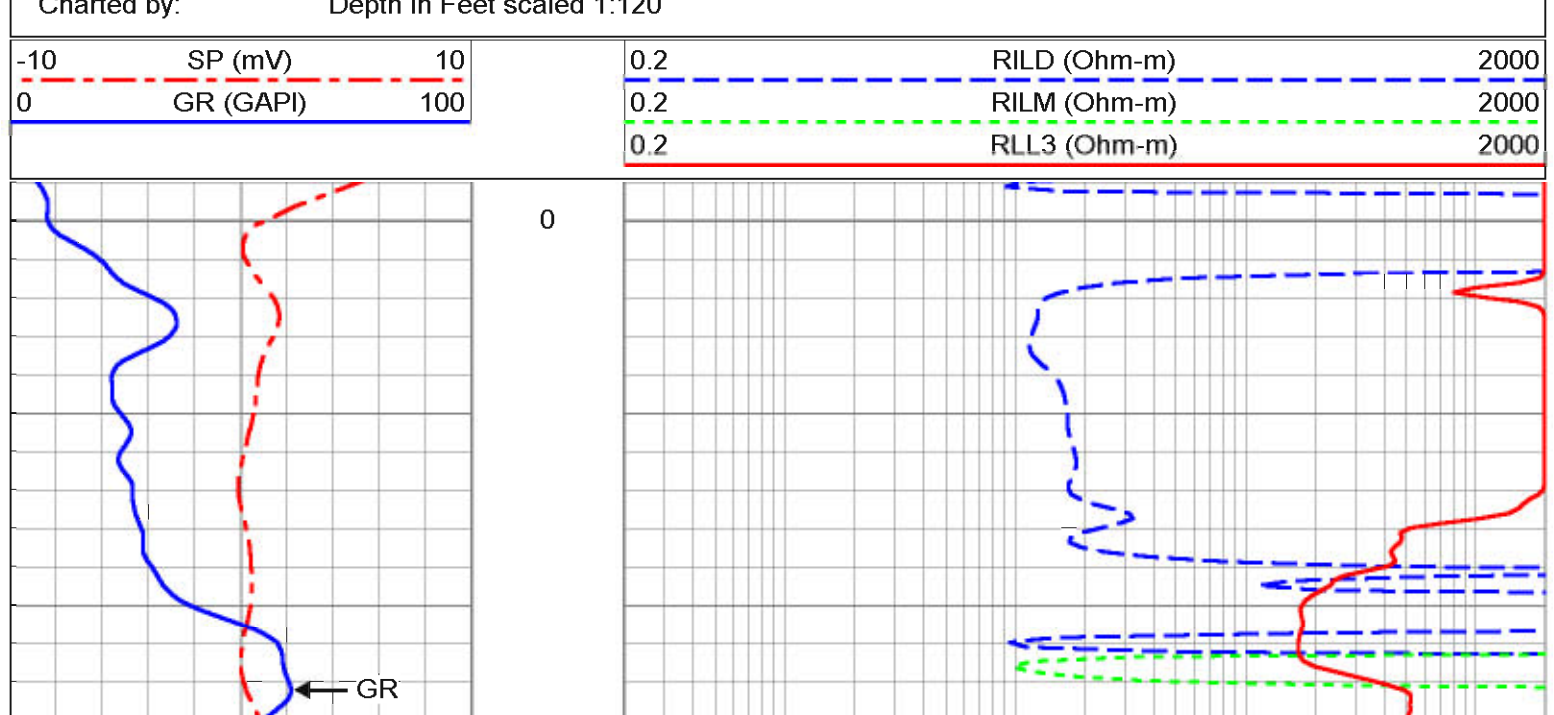
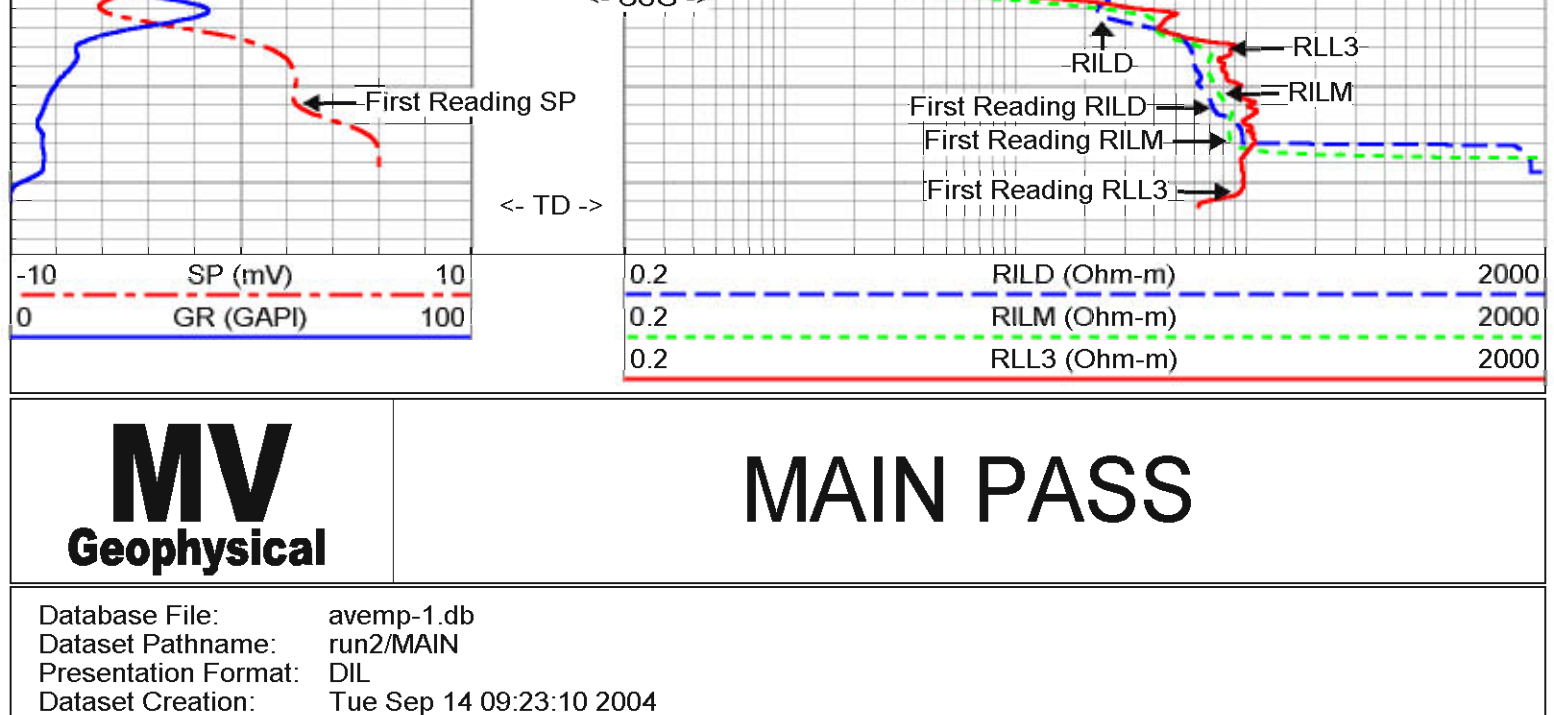
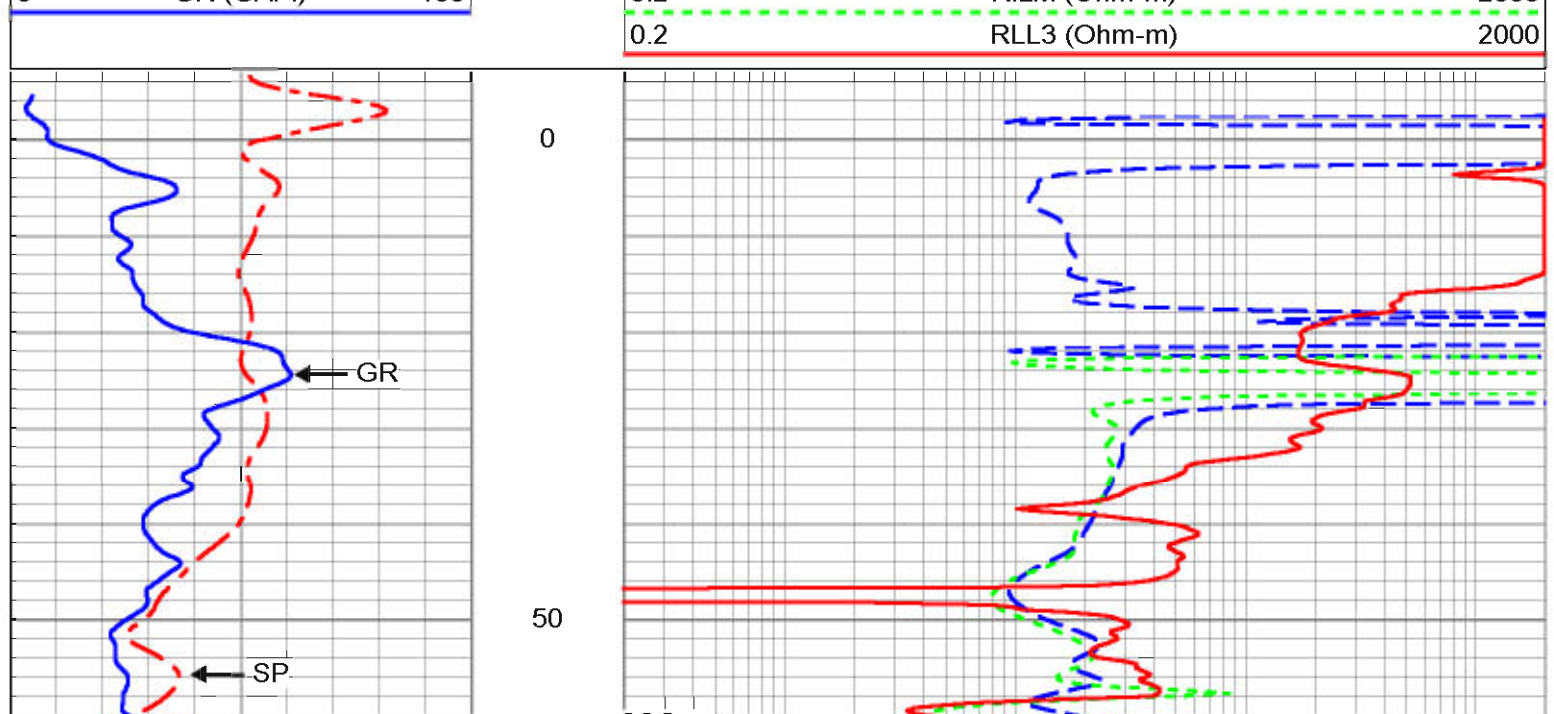
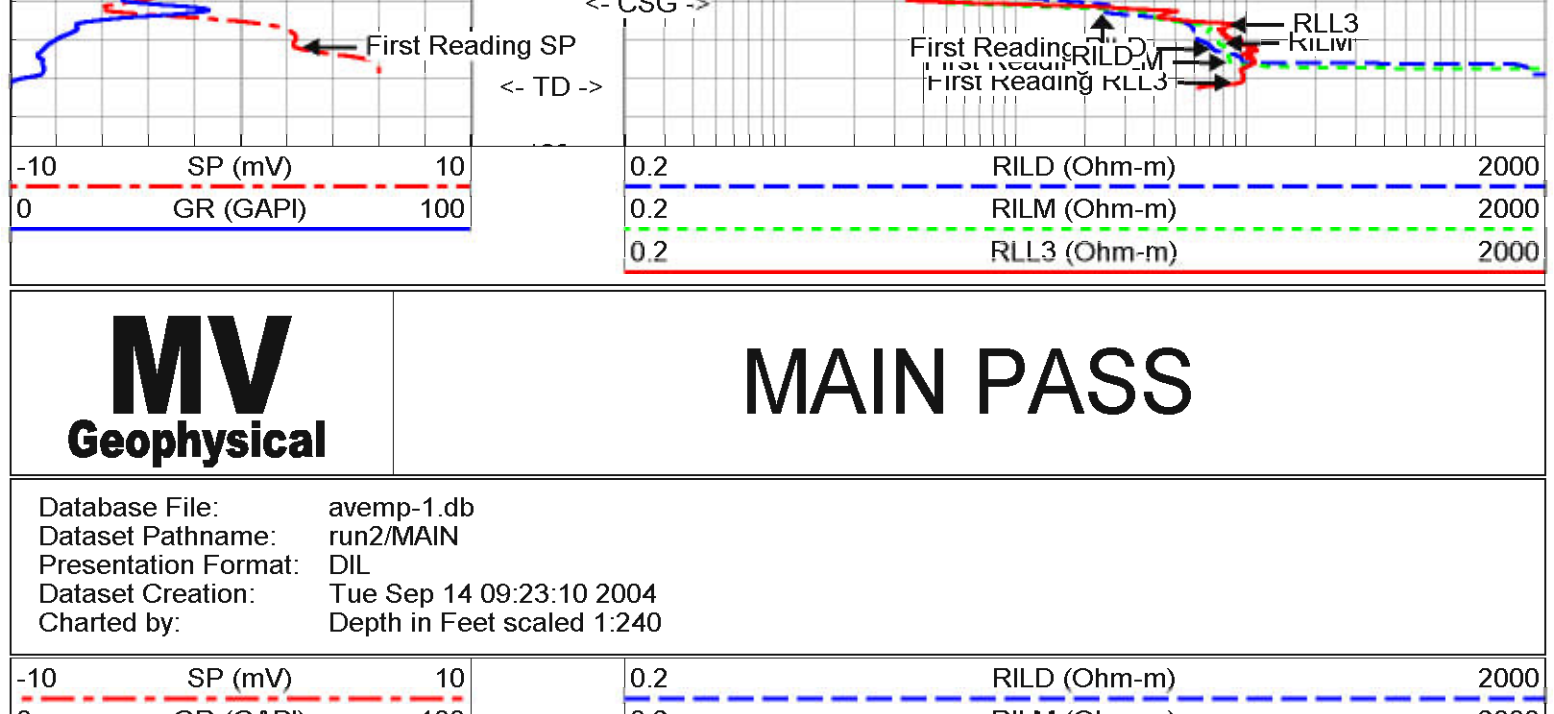
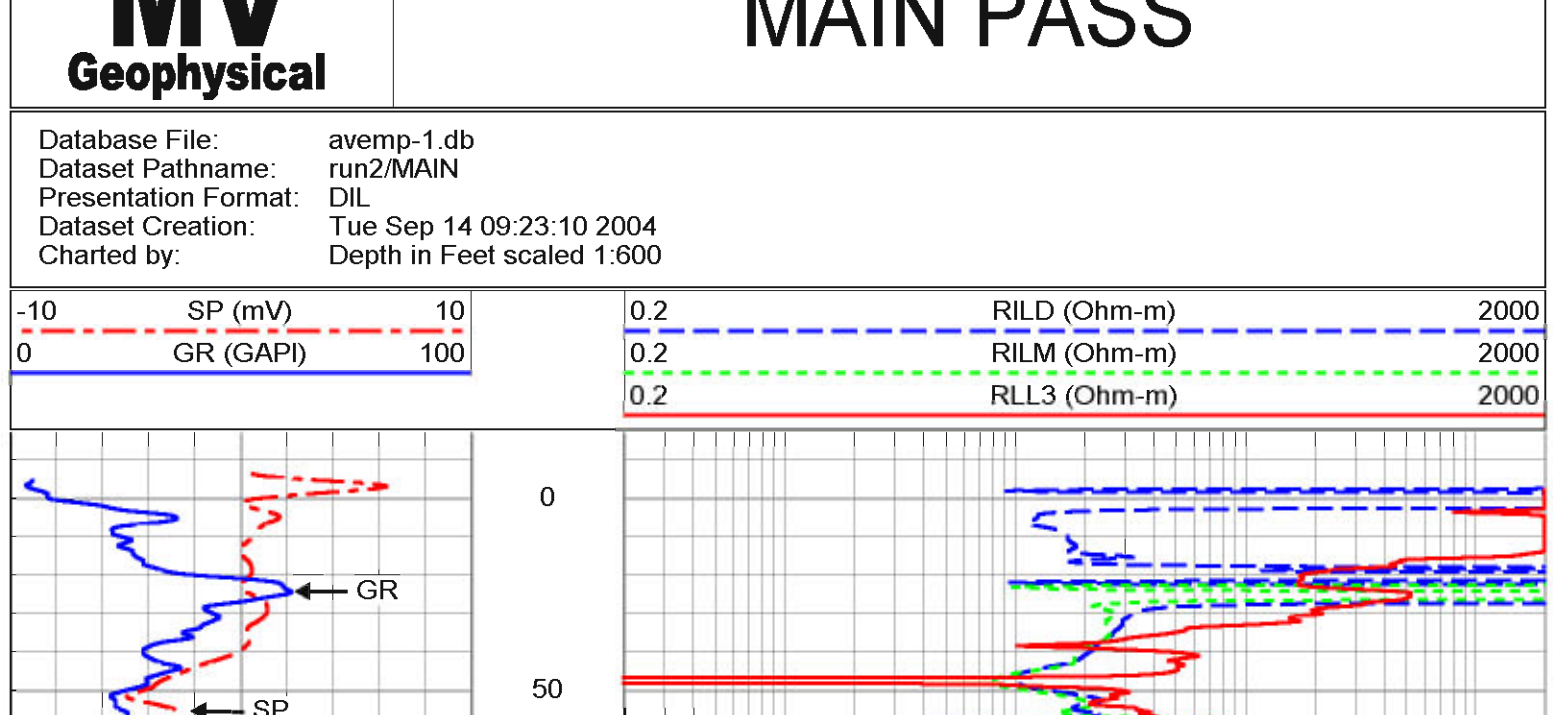
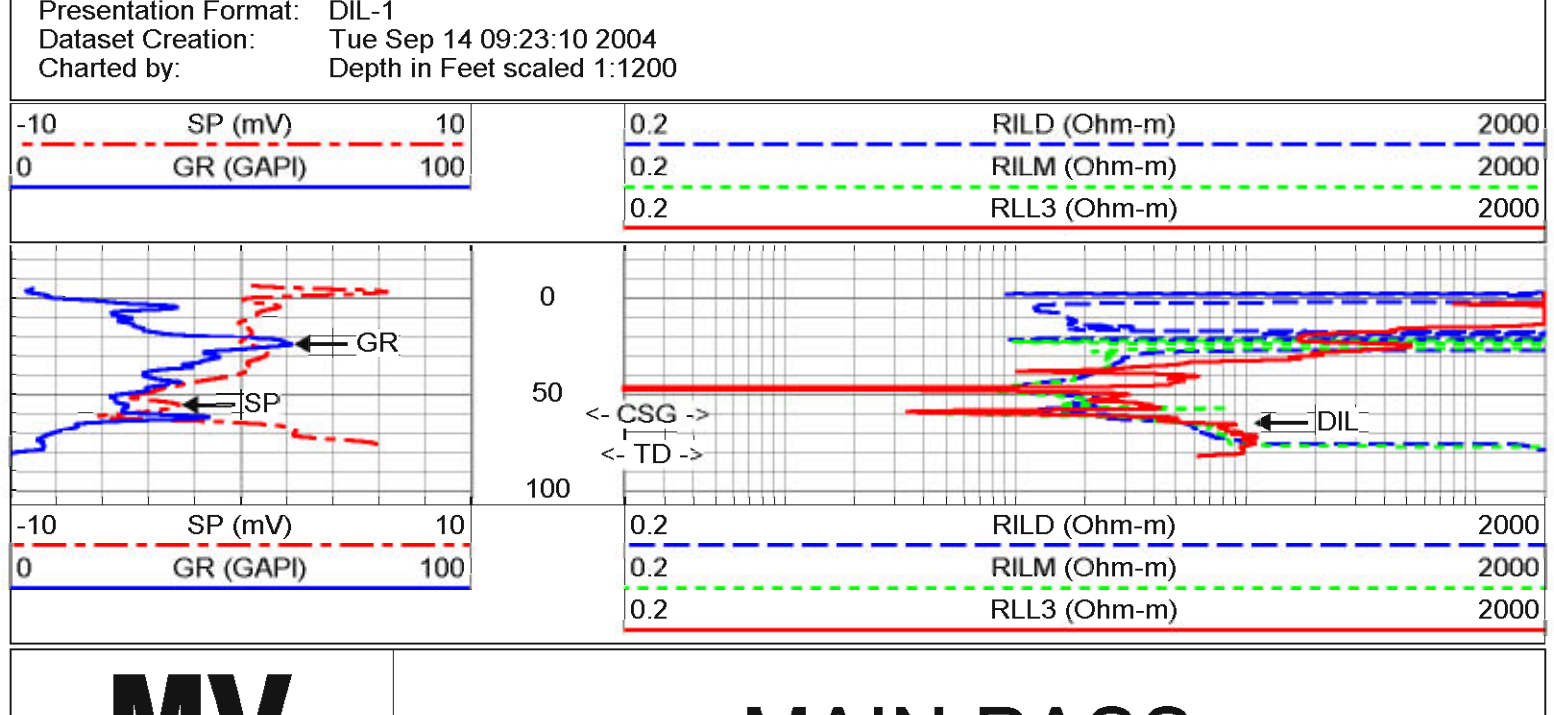
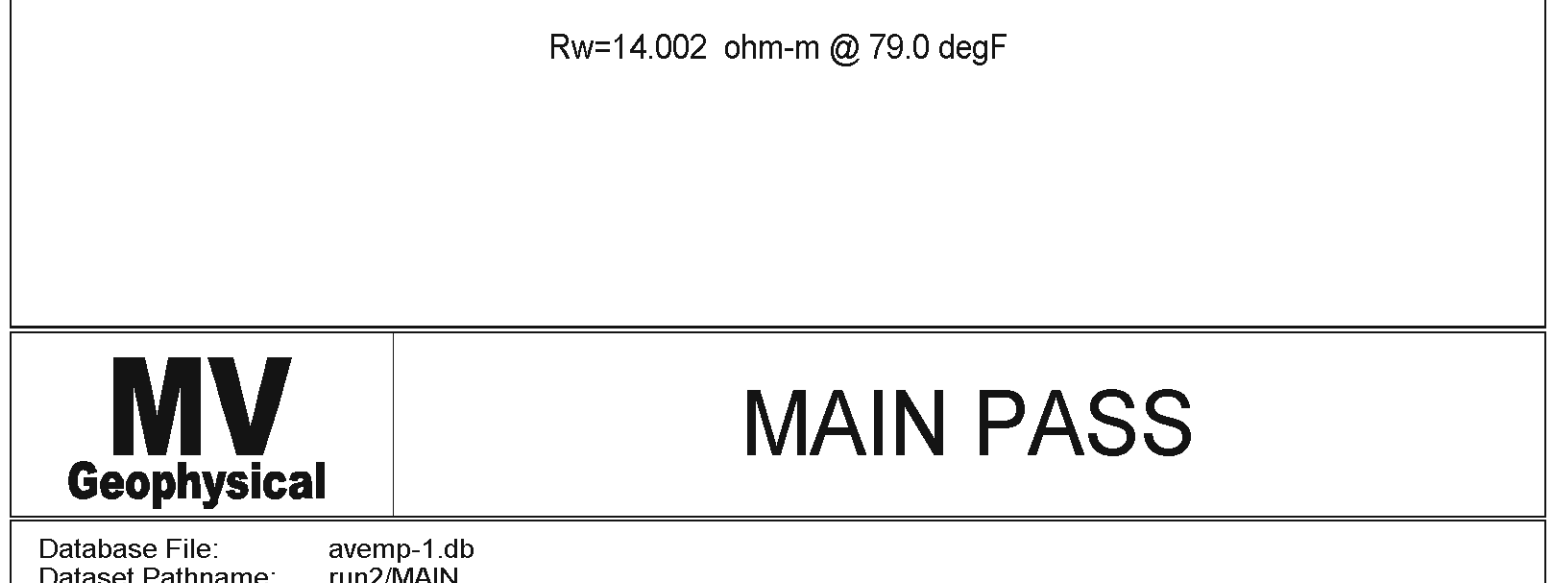
Run Number: TWO
Borehole Record: 7.875' to 61'
Casing Record: 20' to 82.5'
First String: 12' SD# 17
Second String: 11.125' TD
Third String: 20' SURFACE
Log Depth String: SURFACE

Permanent Datum: G.L.
Log Measured From: G.L.
Drilling Measured From: G.L.

Elevation: G.L.
K.B. Elevation: G.L.
D.F. Elevation: G.L.

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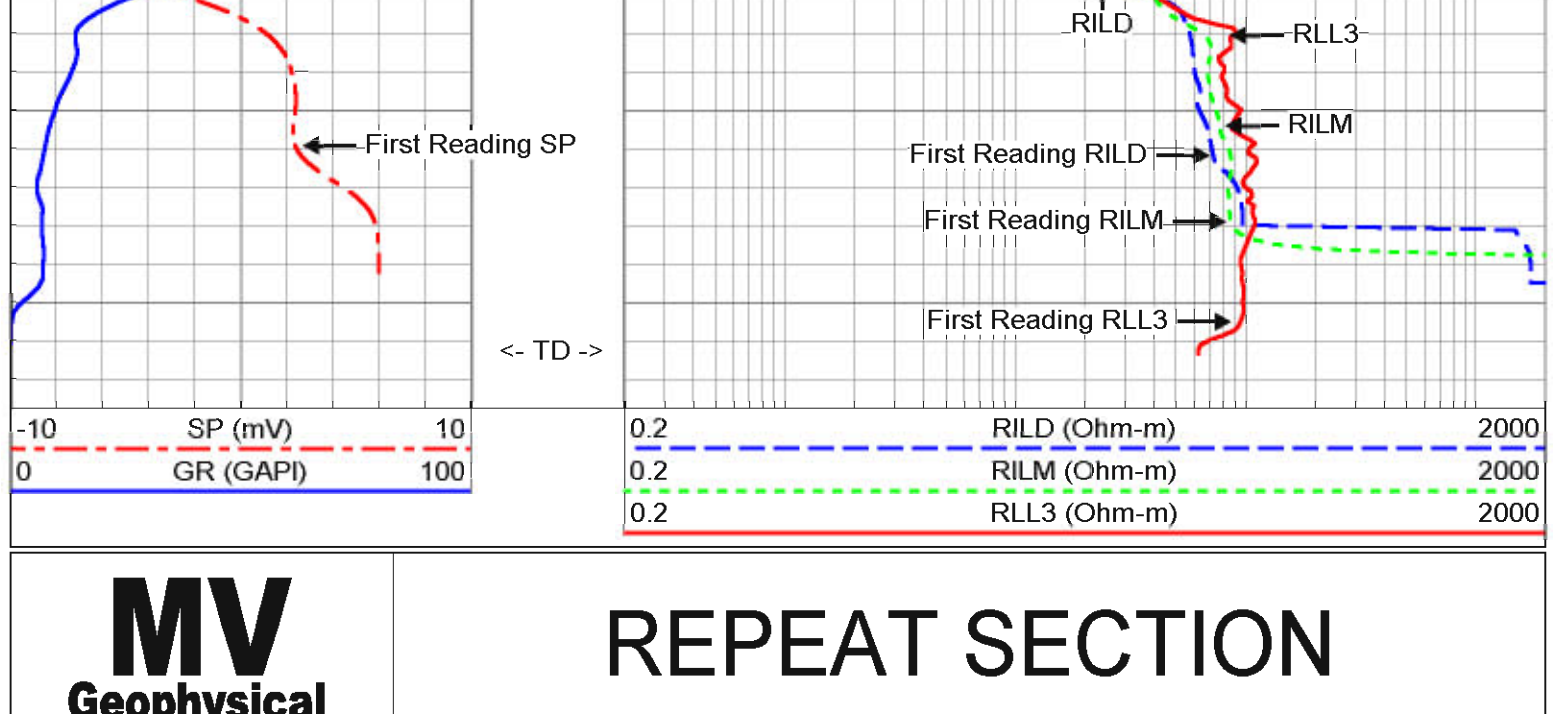
Dual Induction Calibration Report

Serial-Model: 5390-R
Surface Cal Performed: Mon Feb 24 16:52:46 2003
Downhole Cal Performed: Tue Sep 14 08:53:38 2004
After Survey Verification Performed: Tue Sep 14 09:07:25 2004

Surface Calibration		Readings		References		Results		
Loop:	Air	Loop	Air	Loop	m	b		
Deep	0.041	0.637	V	0.000	400.000	mmho-m	670.900	-27.223
Medium	-0.006	0.700	V	0.000	464.000	mmho-m	656.366	4.251
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.011	0.647	V	0.000	400.000	mmho-m	628.552	-6.783
Medium	-0.011	0.749	V	0.000	464.000	mmho-m	610.612	6.720

Downhole Calibration		Readings		References		Results		
Internal:	Zero	Cal	mmho-m	Zero	Cal	mmho-m	m	b
Deep	-18.877	398.830	mmho-m	-19.983	406.966	mmho-m	1.022	-0.688
Medium	13.617	489.391	mmho-m	-2.972	495.796	mmho-m	1.048	-17.248
Shallow	2.501	0.023	V	494.500	2.000	Ohm-m	198.777	-2.622

After Survey Verification		Readings		Targets		Results		
Internal:	Zero	Cal	mmho-m	Zero	Cal	mmho-m	m'	b'
Deep	-17.809	399.526	mmho-m	-18.878	398.830	mmho-m	1.022	-0.688
Medium	14.763	490.220	mmho-m	13.617	489.391	mmho-m	1.048	-17.248
Shallow	495.247	2.244	Ohm-m	494.500	2.000	Ohm-m	0.999	-0.242



Dataset: run2/pass6
Total Length: 20.90 ft
Total Weight: 345.00 lb
O.D.: 4.00 in



FLUID CONDUCTIVITY TEMPERATURE LOG

Company Diversified Drilling Corp.
 Well Ave Maria P-1
 Field Ave Maria University
 County Collier
 State/Prv Florida

Company Diversified Drilling Corporation
 Well Ave Maria P-1
 Field Ave Maria University
 County Collier
 State/Prv Florida

Location Ave Maria WWTP & WTP
 CH2M Hill, Inc.

Permanent Datum G.L.
 Log Measured From G.L.
 Drilling Measured From G.L.

Date 14-SEP-2004
 Run Number TWO
 Depth Driller 82.5'
 Depth Logger 82.5'
 Bottom Logged Interval 81'
 Top Log Interval 61'
 Open Hole Size 11"
 Type Fluid WATER
 Density / Viscosity N/A
 Max. Recorded Temp. NA
 Estimated Cement Top NA
 Time Well Ready 08:00 9/14/04
 Time Logger on Bottom 09:30 9/14/04
 Equipment Number MWGS-1
 Location Ft. Myers
 Recorded By S. Miller
 Witnessed By C. Ivary (CH2M)

Other Services
 XYGR
 DIL/SP
 FLO,VIDEO
 Elevation

Borehole Record
 Run Number ONE
 Bit 7.875"
 From 20'
 To 64'
 TWTWO 11"
 From 61'
 To 82.5'

Tubing Record
 Size 20"
 Weight SURFACE
 From SURFACE
 To 20'
 Bottom 61'

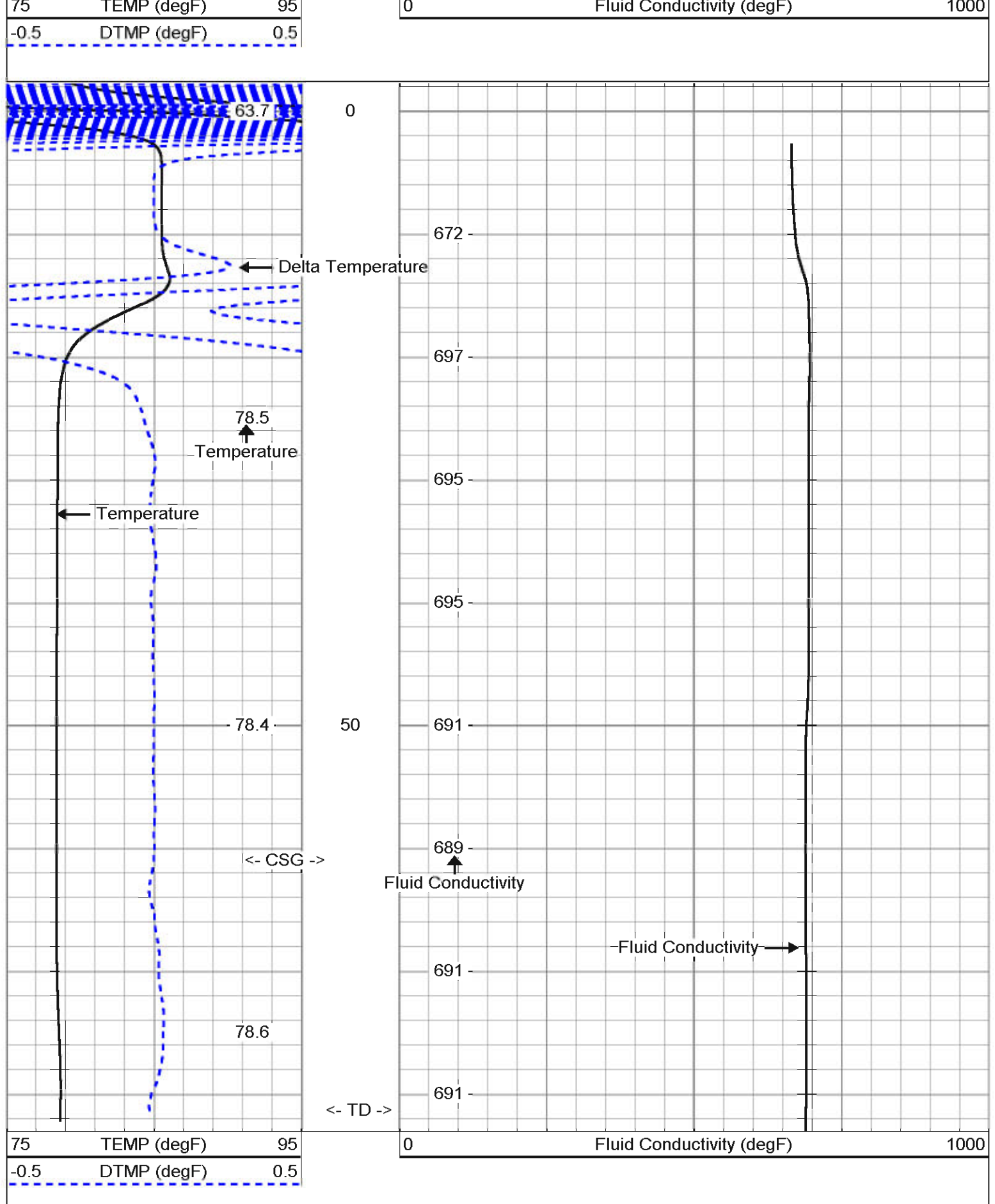
Invoice No. 2004132 P.O.# Job No.: *FIELD PRINT*

Comments
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STATIC and DYNAMIC DOWN passes were performed.
 Cw=714.2 uS/cm @ 79.0 degF (Dynamic Sample). Q =~450 gpm.
 FLUID RESISTIVITY CALIBRATION REPORT (Performed: 16-AUG-04 13:00)
 OHM-M CPS
 335.0 4565.33
 820.1 4400.12
 1525.1 3890.11
 TEMPERATURE CALIBRATION REPORT (Performed: 16-AUG-04 13:45)
 DEG-F CPS
 34.6 2346.14
 144.6 6955.44

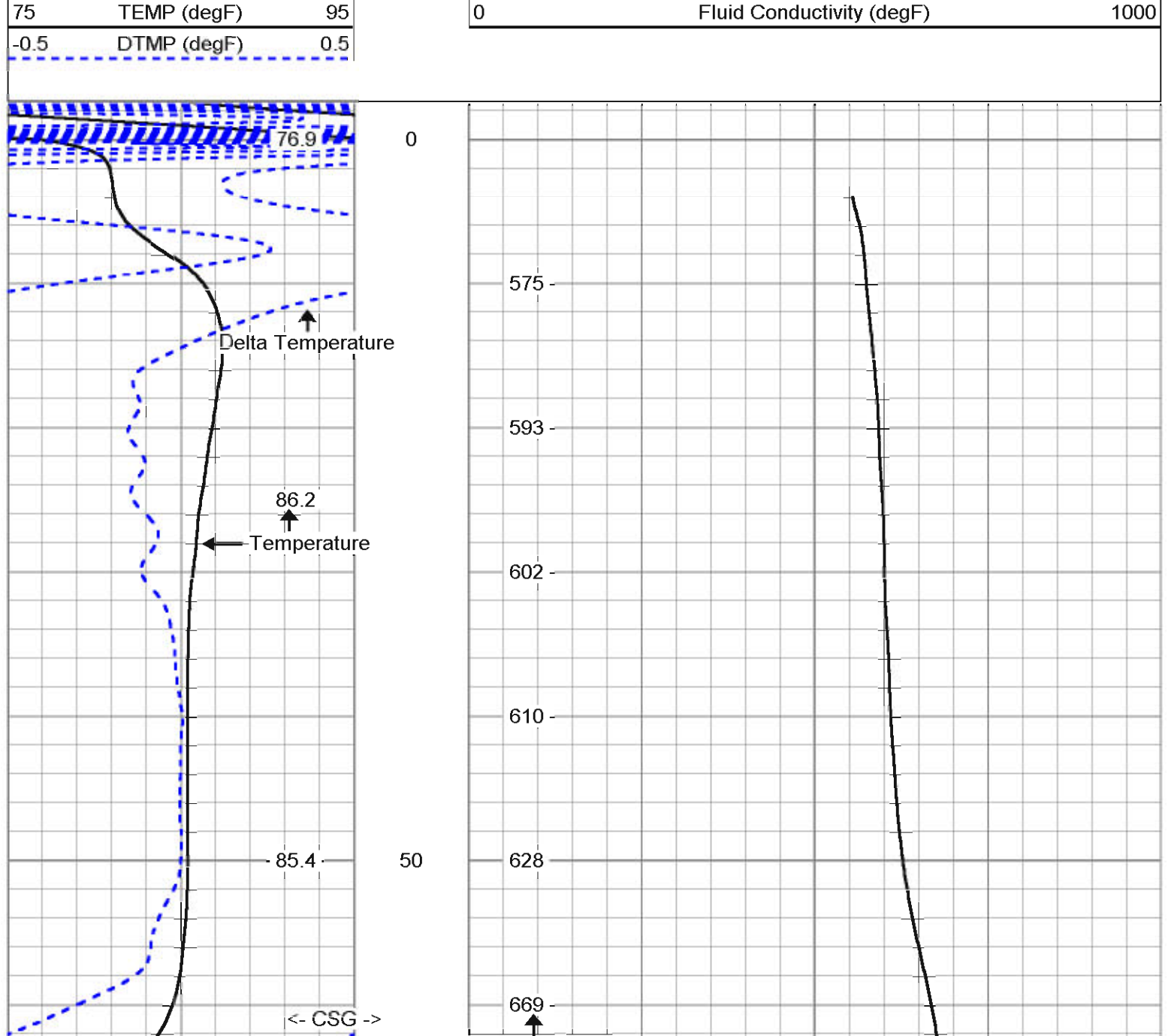
MV Geophysical DYNAMIC FCT DOWN

Database File: avemp-1.db
 Dataset Pathname: run2/DFCT
 Presentation Format: FCTAVE2
 Dataset Creation: Tue Sep 14 15:04:46 2004
 Charted by: Depth in Feet scaled 1:120



MV Geophysical STATIC FCT DOWN

Database File: avemp-1.db
 Dataset Pathname: run2/SFCT
 Presentation Format: FCTAVE2
 Dataset Creation: Tue Sep 14 11:50:47 2004
 Charted by: Depth in Feet scaled 1:120



Company	Diversified Drilling Corp.	
Well	Ave Maria P-1	
Field	Ave Maria University	
County	Collier	
State/Prv	Florida	
Location	Ave Maria WWTP & WTP	Other Services X/Y/G/R DIL/SP FCT, VIDEO
Company	Diversified Drilling Corporation	
Well	Ave Maria P-1	
Field	Ave Maria University	
County	Collier	
State/Prv	Florida	
Permanent Datum	G.L.	Elevation
Log Measured From	G.L.	K.B. D.F. G.L.
Drilling Measured From	G.L.	
Date	14-SEP-2004	
Run Number	TWO	
Depth Driller	82.5'	
Depth Logger	82.5'	
Bottom Logged Interval	81'	
Top Log Interval	41'	
Open Hole Size	11"	
Type Fluid	WATER	
Density / Viscosity	NA/NA	
Max. Recorded Temp.	NA	
Estimated Cement Top	NA	
Time Well Ready	08:00 9/14/04	
Time Logger on Bottom	13:30 9/14/04	
Location	MMGS-1	
Equipment Number	F. Myers	
Recorded By	S. Miller	
Witnessed By	C. Veary (CH2M)	
Run Number	Boothole Record	Roasso (DDCI)
ONE	Bit From To	Tubing Record From To
TWO	7.875' 20' 64'	61' 82.5'
	11" 61'	
Casing Record	Size	Wgt/Ft
Surface String	20"	0.375 Wt
Prod. String	12" SDR 17	11.125" ID
Production String		
Liner		
Job No.:	2004132	P. O. #:
		* FIELD PRINT *

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Comments

STATIC and DYNAMIC DOWN passes were performed.
 Cw=714.2 uS/cm @ 79.0 degF (Dynamic Sample). Q ~450 gpm.
 FLUID RESISTIVITY CALIBRATION REPORT (Performed: 16-AUG-04 13:00)

OHM-M	CPS
335.0	4565.33
820.1	4400.12
1525.1	3890.11

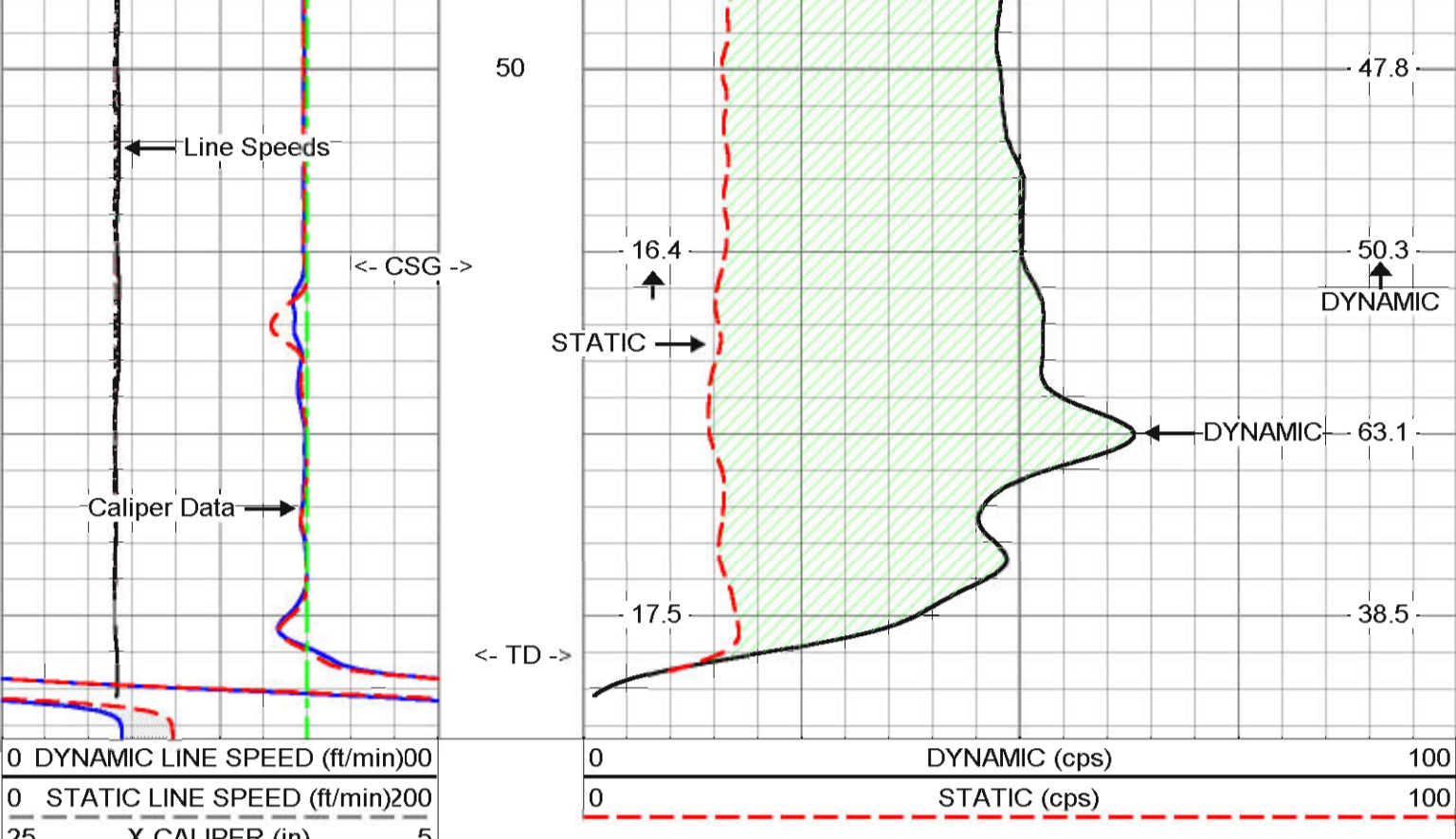
TEMPERATURE CALIBRATION REPORT (Performed: 16-AUG-04 13:45)

DEG-F	CPS
34.6	2346.14
144.6	6955.44

MV Geophysical S/D DOWN @ 50 fpm

Database File: avemp-1.db
 Dataset Pathname: run2/sd50
 Presentation Format: QGG2
 Dataset Creation: Tue Sep 14 15:31:56 2004
 Charted by: Depth in Feet scaled 1:120

0 DYNAMIC LINE SPEED (ft/min)	00	0	DYNAMIC (cps)	100
0 STATIC LINE SPEED (ft/min)	200	0	STATIC (cps)	100
25 X-CALIPER (in)	5			
25 Y CALIPER (in)	5			
25 BIT SIZE (in)	5			

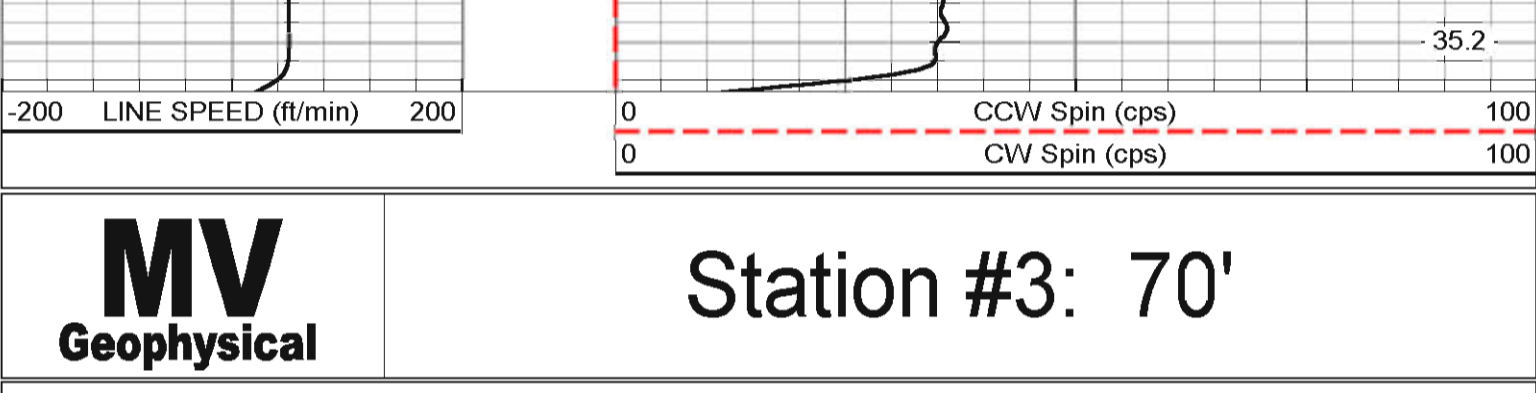


0 DYNAMIC LINE SPEED (ft/min)	00	0	DYNAMIC (cps)	100
0 STATIC LINE SPEED (ft/min)	200	0	STATIC (cps)	100
25 X-CALIPER (in)	5			
25 Y CALIPER (in)	5			
25 BIT SIZE (in)	5			

MV Geophysical Station #4: 65'

Database File: avemp-1.db
 Dataset Pathname: run2/pass19
 Presentation Format: FLOW
 Dataset Creation: Tue Sep 14 12:42:13 2004 by Log VER_5.3
 Charted by: Depth in Feet scaled 1:240

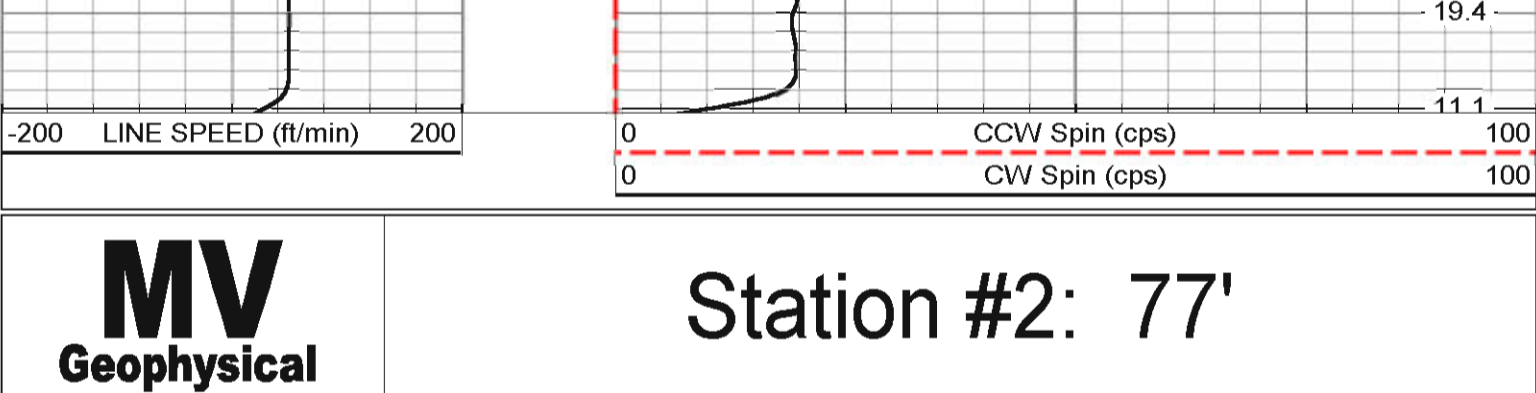
-200 LINE SPEED (ft/min)	200	0	CCW Spin (cps)	100
		0	CW Spin (cps)	100



MV Geophysical Station #3: 70'

Database File: avemp-1.db
 Dataset Pathname: run2/pass18
 Presentation Format: FLOW
 Dataset Creation: Tue Sep 14 12:40:42 2004 by Log VER_5.3
 Charted by: Depth in Feet scaled 1:240

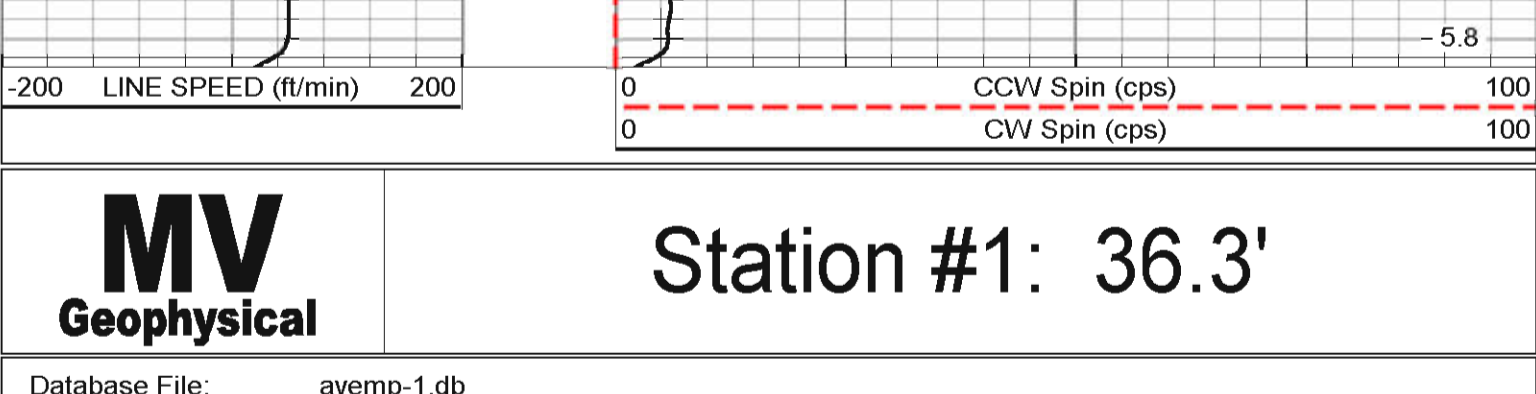
-200 LINE SPEED (ft/min)	200	0	CCW Spin (cps)	100
		0	CW Spin (cps)	100



MV Geophysical Station #2: 77'

Database File: avemp-1.db
 Dataset Pathname: run2/pass17
 Presentation Format: FLOW
 Dataset Creation: Tue Sep 14 12:39:14 2004 by Log VER_5.3
 Charted by: Depth in Feet scaled 1:240

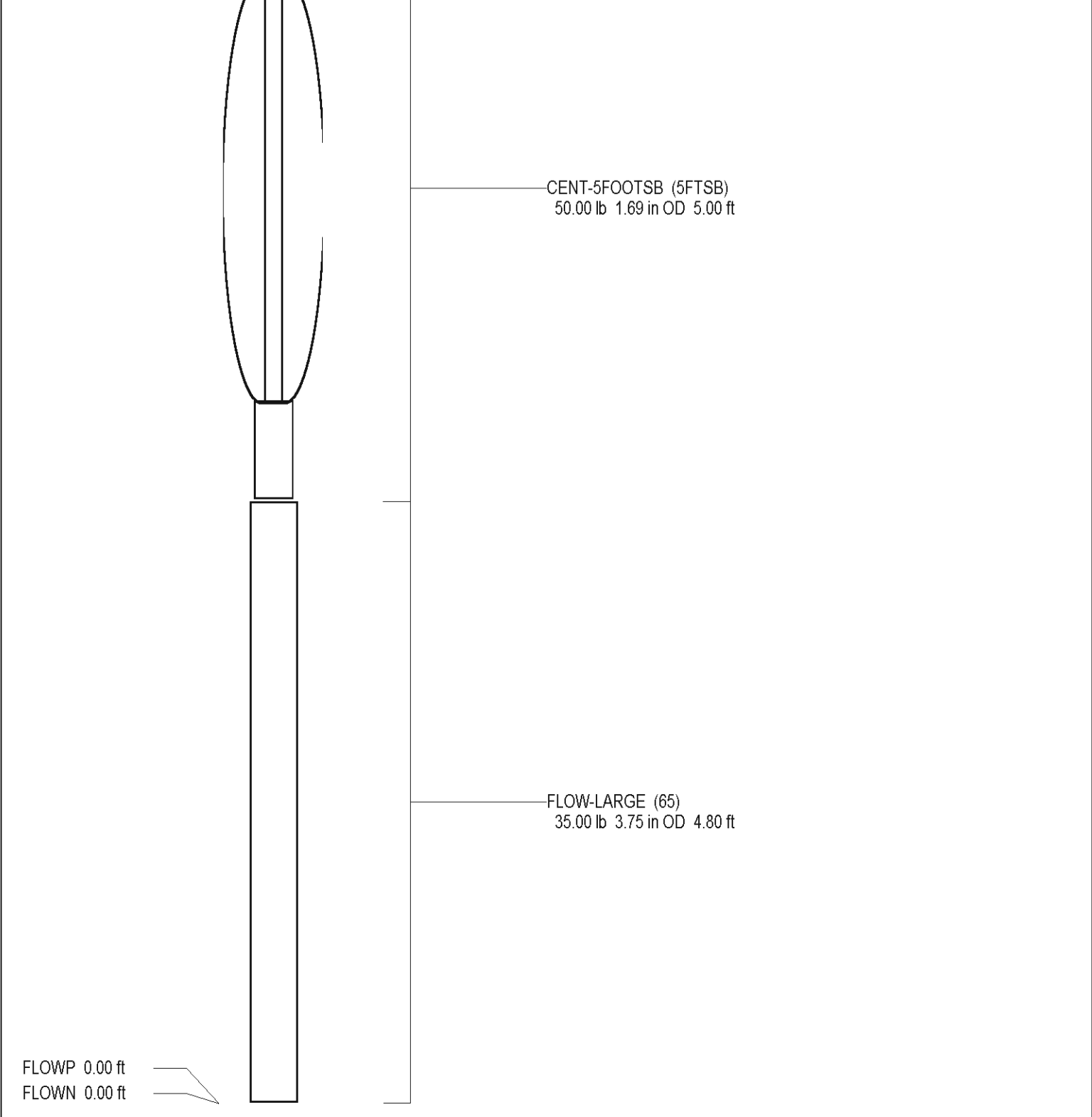
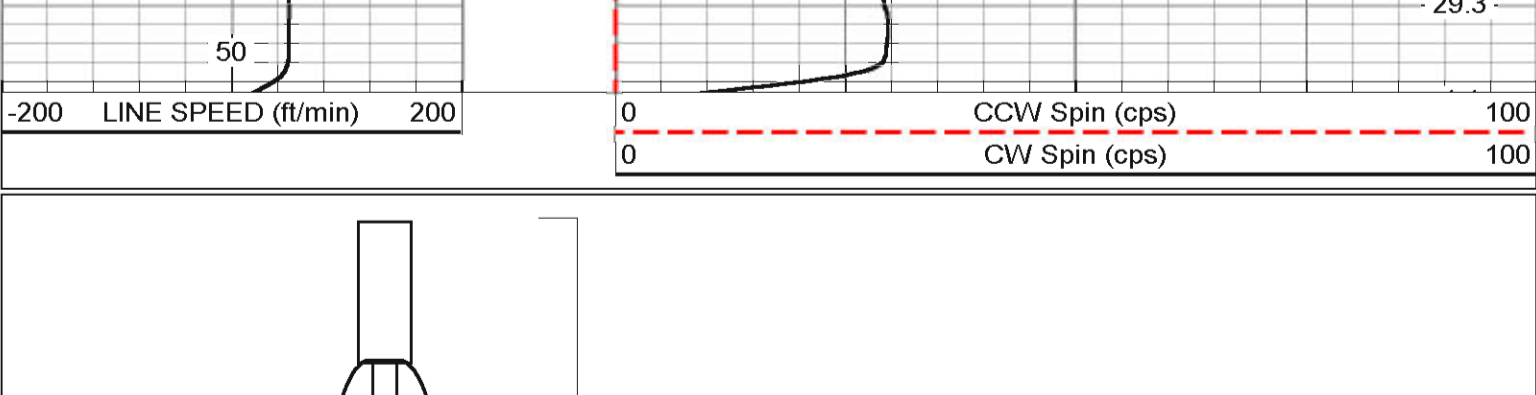
-200 LINE SPEED (ft/min)	200	0	CCW Spin (cps)	100
		0	CW Spin (cps)	100



MV Geophysical Station #1: 36.3'

Database File: avemp-1.db
 Dataset Pathname: run2/pass13
 Presentation Format: FLOW
 Dataset Creation: Tue Sep 14 12:32:56 2004 by Log VER_5.3
 Charted by: Depth in Feet scaled 1:240

-200 LINE SPEED (ft/min)	200	0	CCW Spin (cps)	100
		0	CW Spin (cps)	100



Company: Diversified Drilling Corp.
 Well: Ave Maria P-1
 Field: Ave Maria University
 County: Collier
 State/Priv: Florida

Location: Ave Maria WWTP & WTP
 CH2M Hill, Inc.

Permanent Datum: G.L.
 Log Measured From: G.L.
 Drilling Measured From: G.L.

Date: 14-SEP-2004

Run Number: TMO
 Depth Drier: 82.5'
 Bottom Logger: 82.5'
 Bottom Logged Interval: SURFACE

Type Fluid: WATER
 Density/Viscosity: N/A
 Max. Recorded Temp.: N/A

Time Well Ready: 08:00 9/14/04
 Time Logger on Bottom: 08:30 9/14/04
 Equipment Number: MWS-1
 Location: Ft. Myers
 Recorded By: S Miller
 Witnessed By: CIVERY (CH2M)

Batch/Job Record:
 Run Number: 7
 ONE: 7.875'
 TWO: 11'

Size: 20"
 Weight: 64
 From: 82.5'

Wt/ft: 0.375
 Surface String: 12" SUR 17
 Pipe String: 11.125" ID
 Bottom: SURFACE
 From: SURFACE
 To: 61'

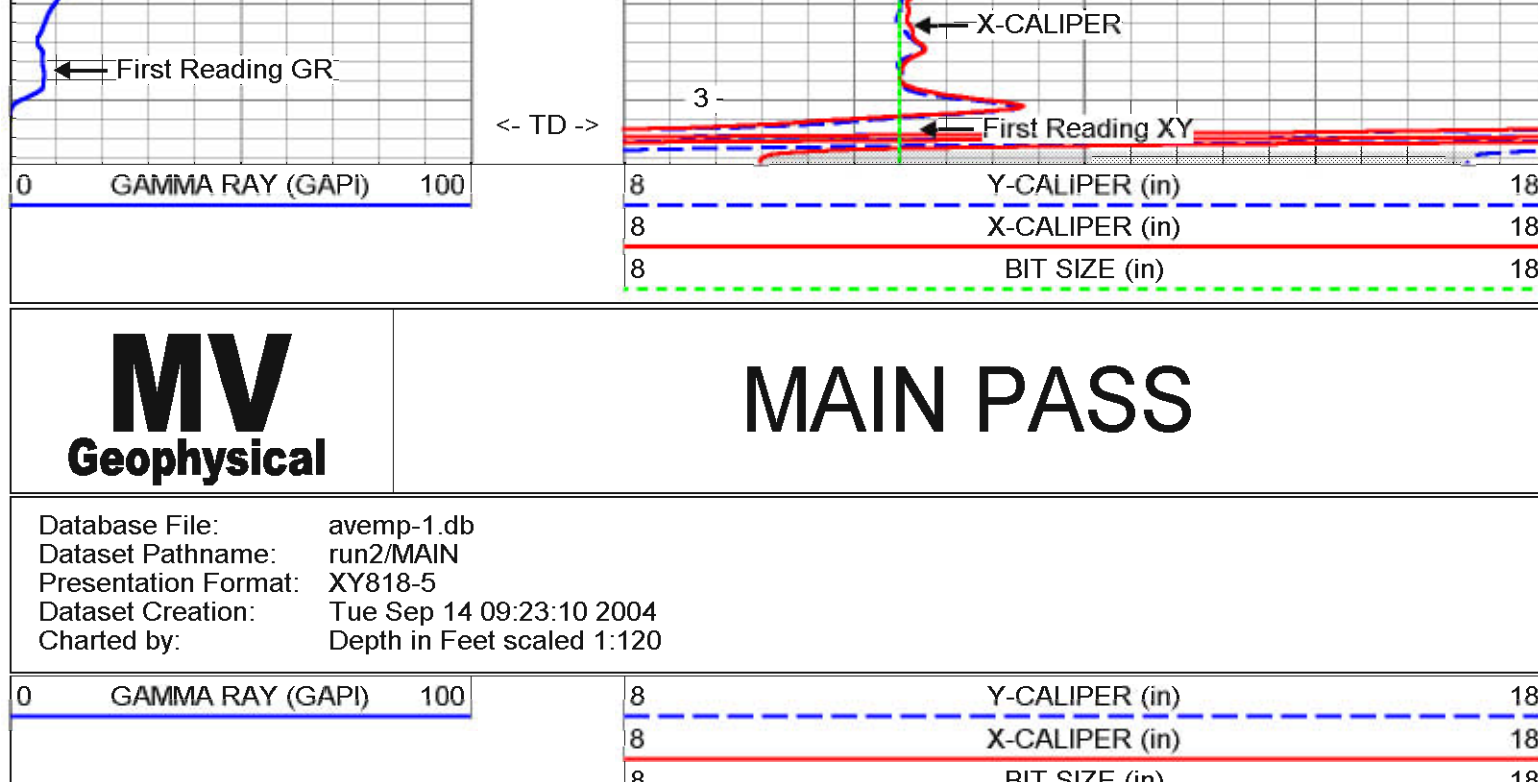
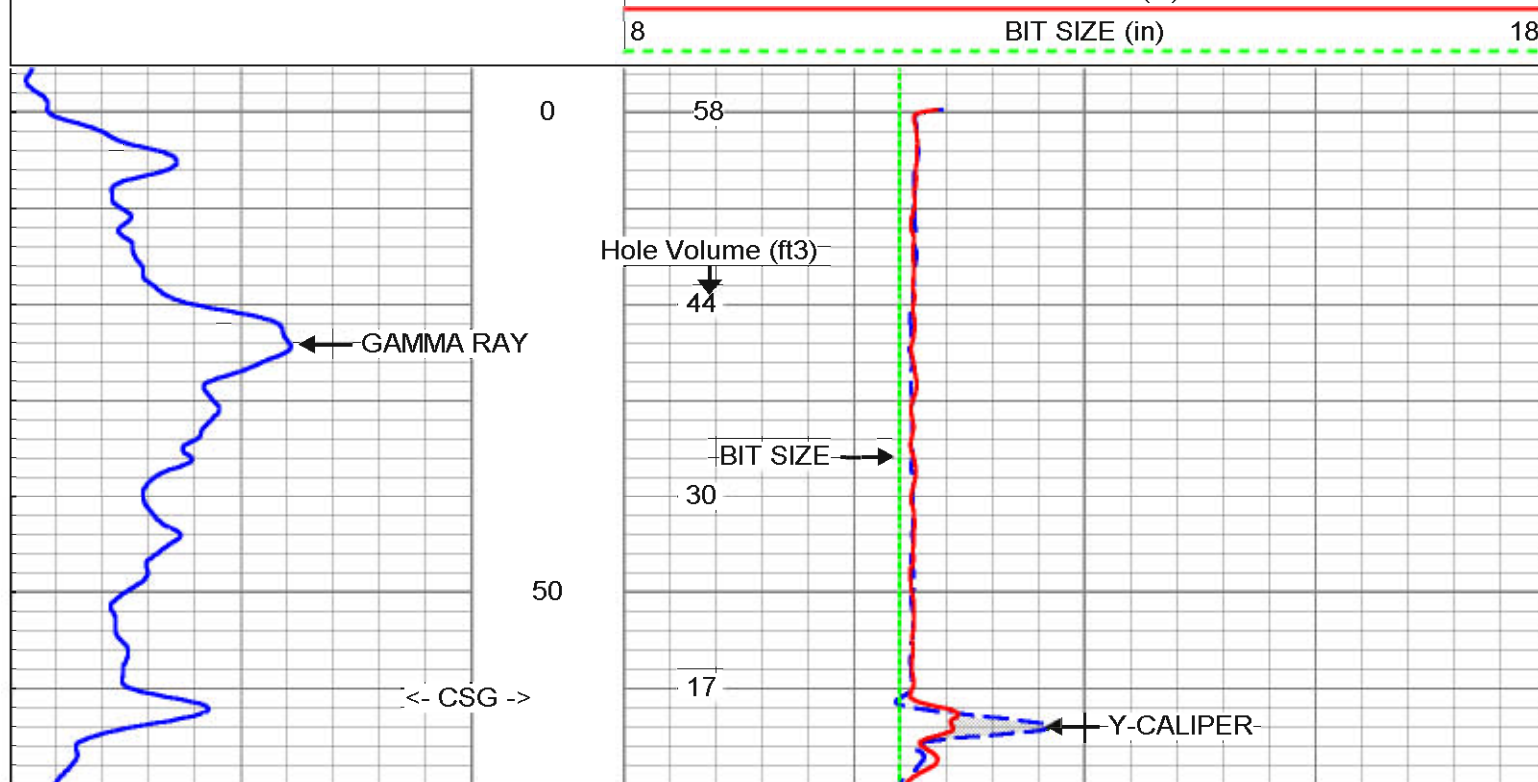
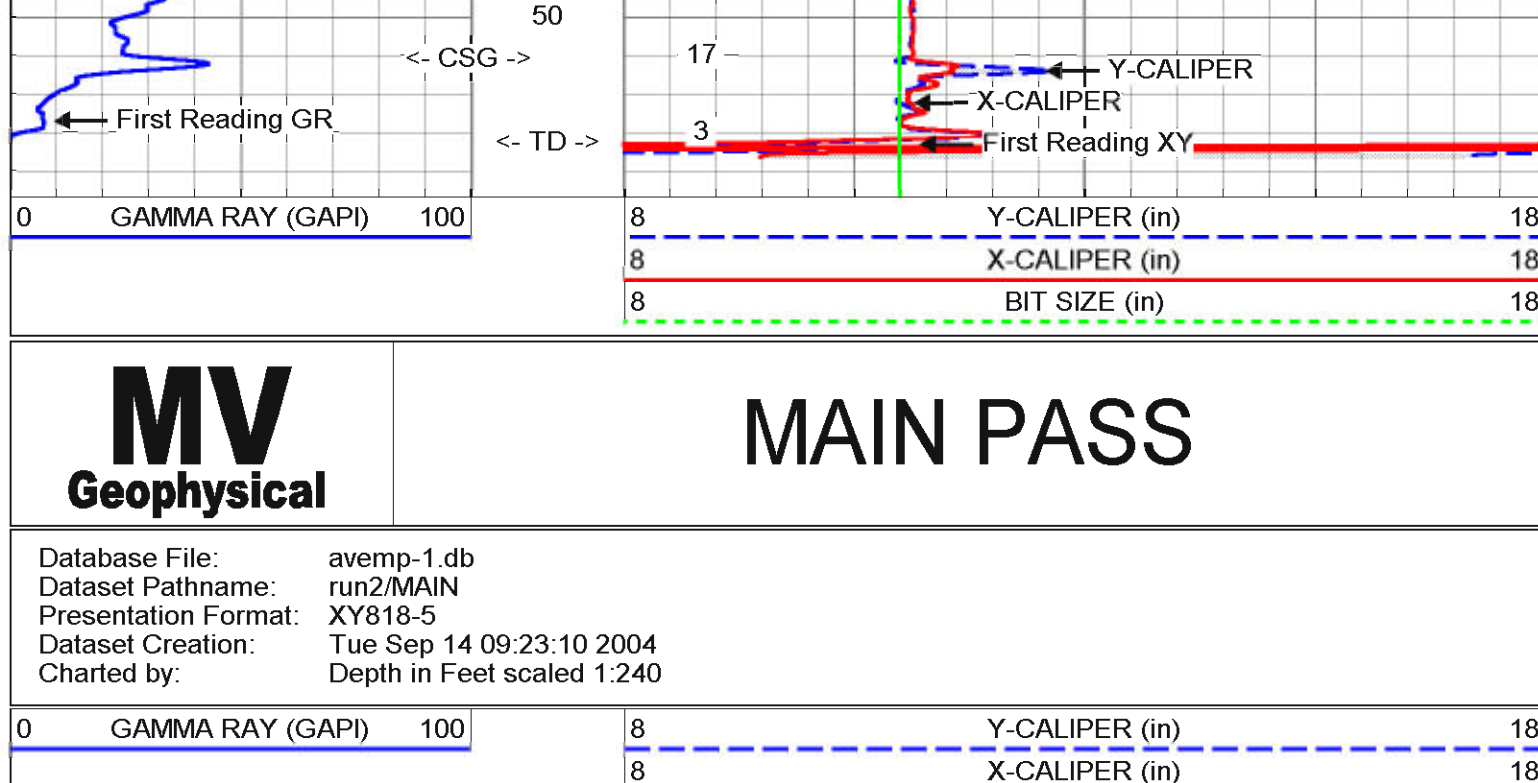
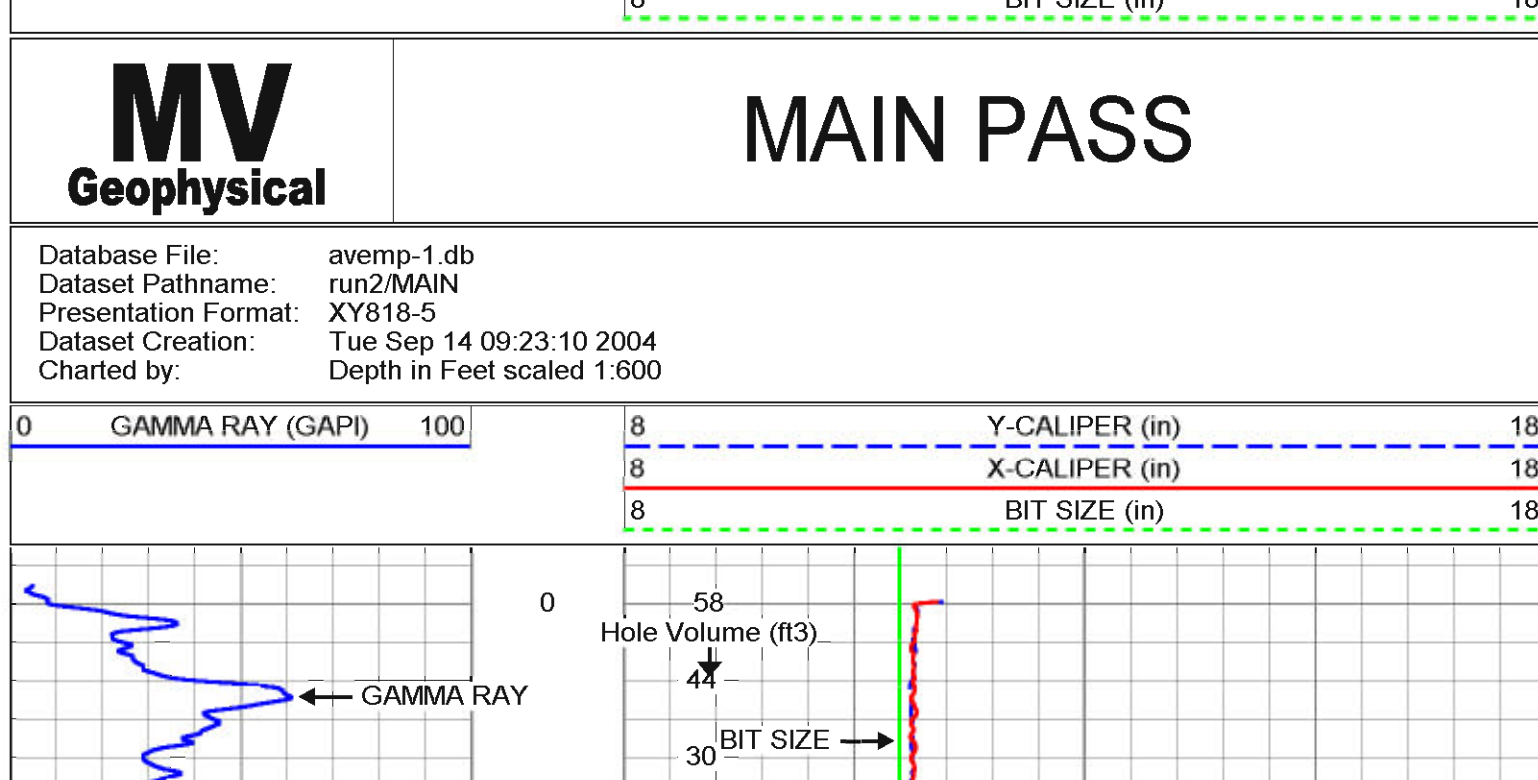
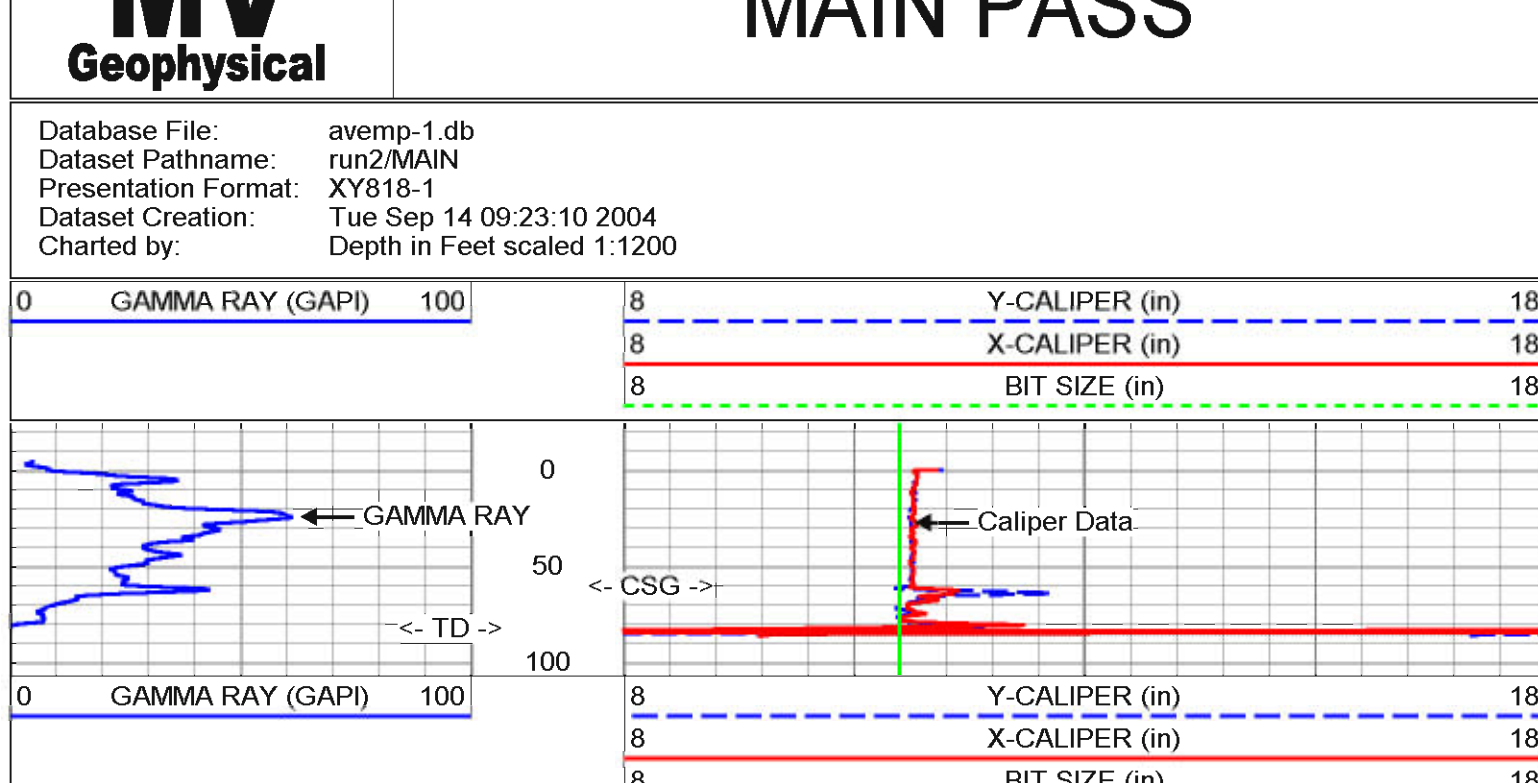
Job No.: *FIELD PRINT*

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Comments

X-Y Caliper Arm Extensions: 33"

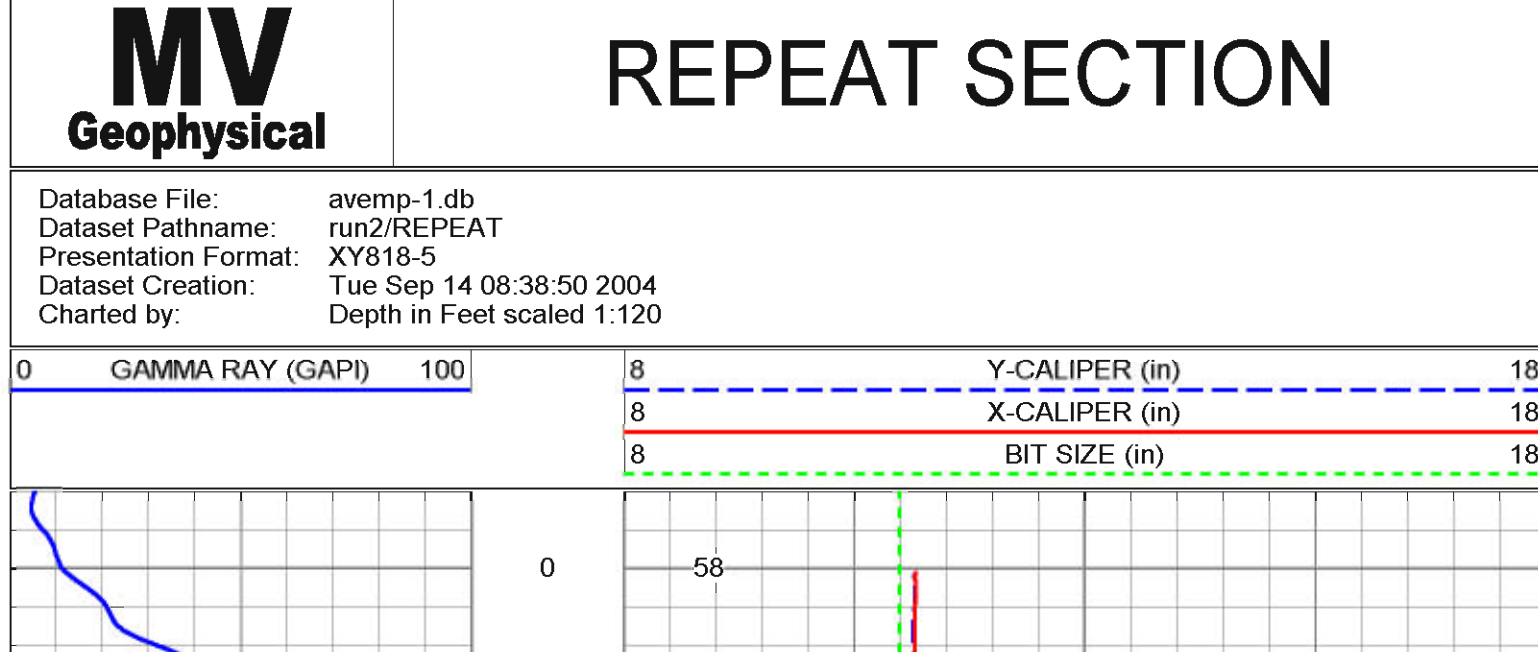
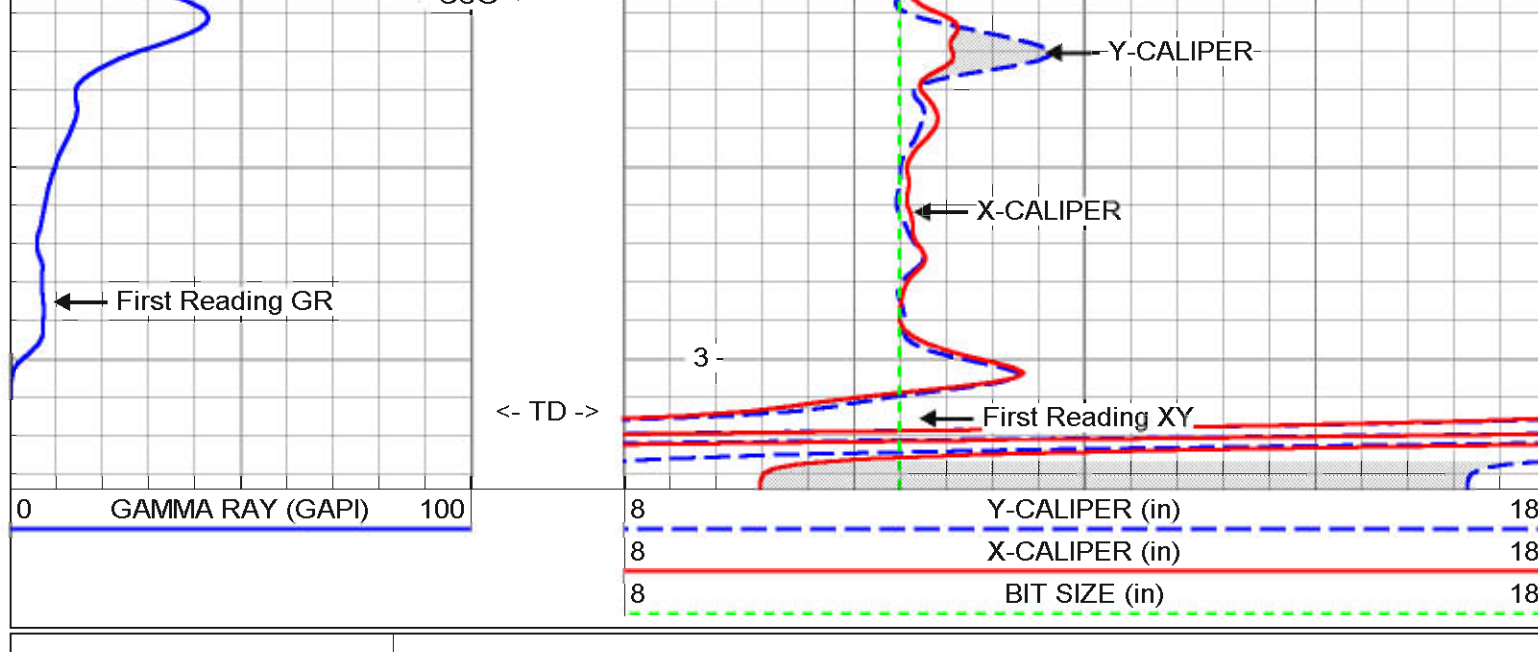


XY Caliper Calibration Report

Serial Number:	01S	
Tool Model:	XYCS	
Performed:	Tue Sep 14 08:44:29 2004	
Small Ring:	11.125 in	
Large Ring:	19.25 in	
	X Caliper	Y Caliper
Reading with Small Ring:	552.4	562.75
	694.21	697.312
		cps
Gain:	0.057295	0.0603811
Offset:	-20.5247	-22.8545

Gamma Ray Calibration Report

Serial Number:	01
Tool Model:	GROH
Performed:	Tue Sep 14 08:31:57 2004
Calibrator Value:	120 GAPI
Background Reading:	5.631 cps
Calibrator Reading:	124.621 cps
Sensitivity:	1.00849 GAPI/cps



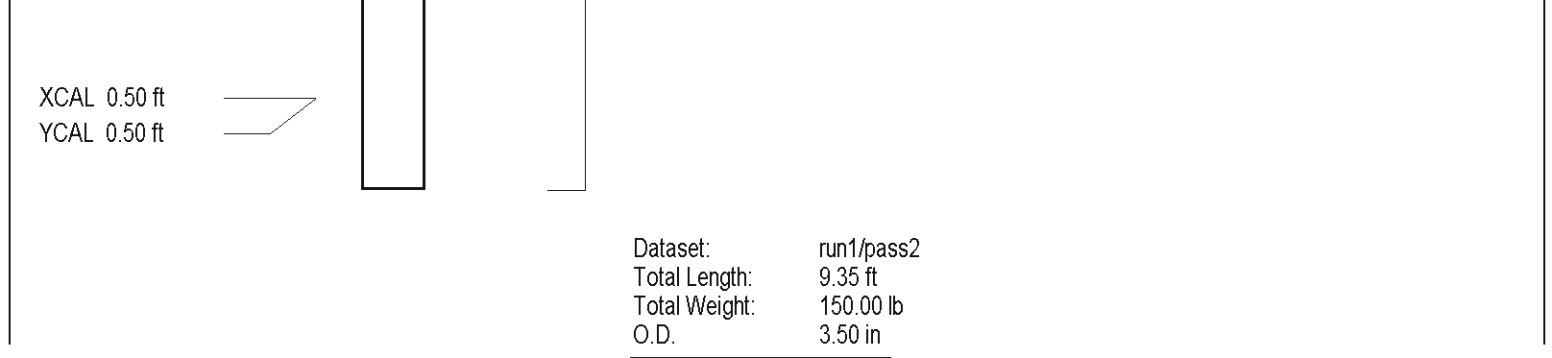
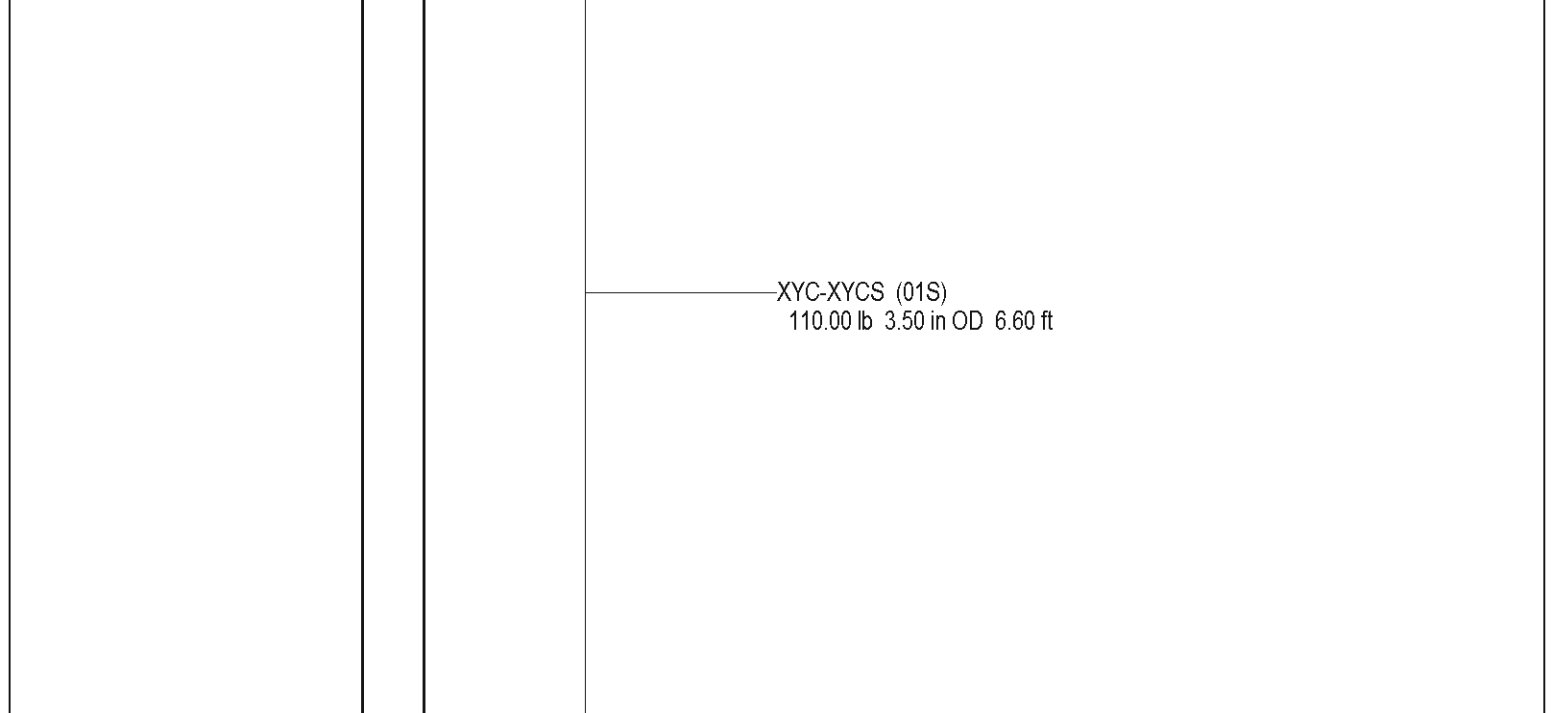
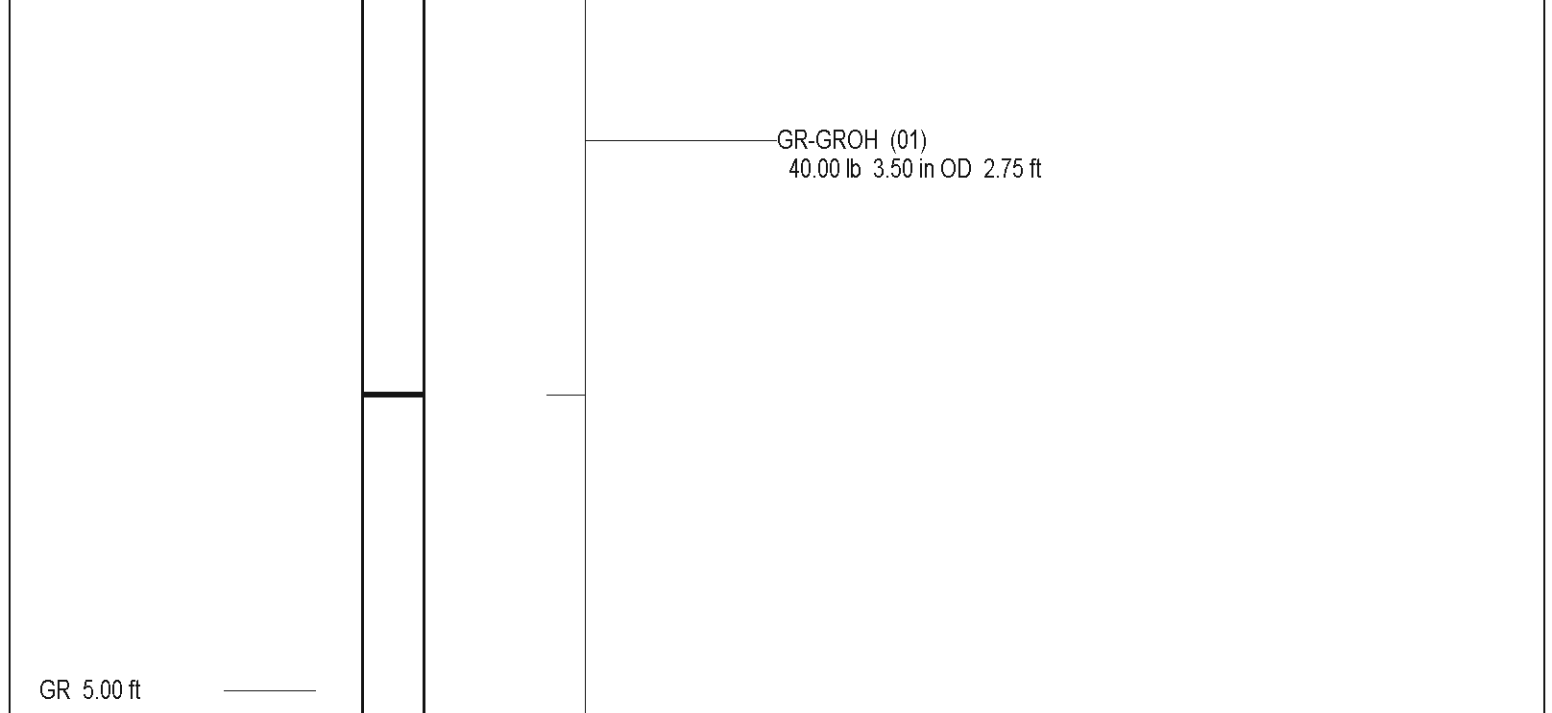
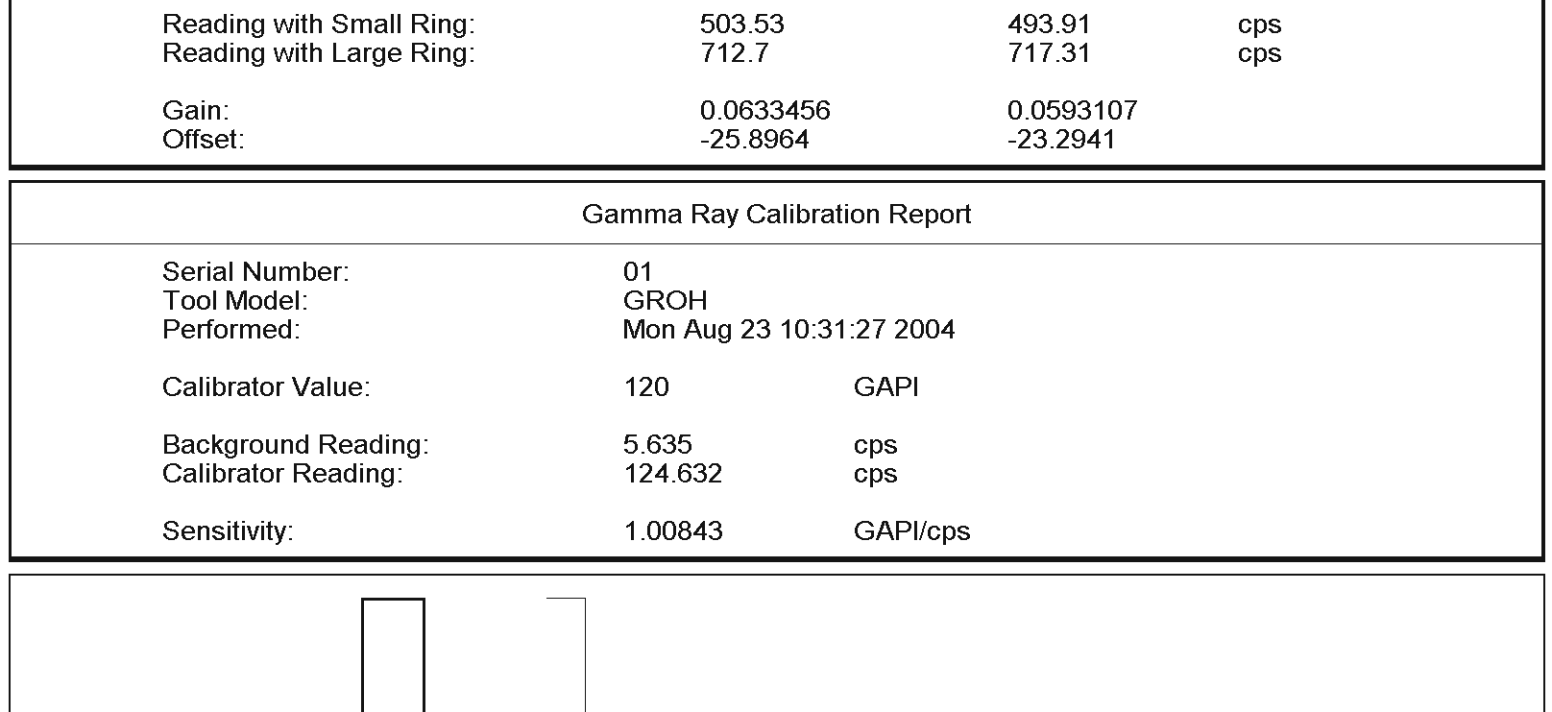
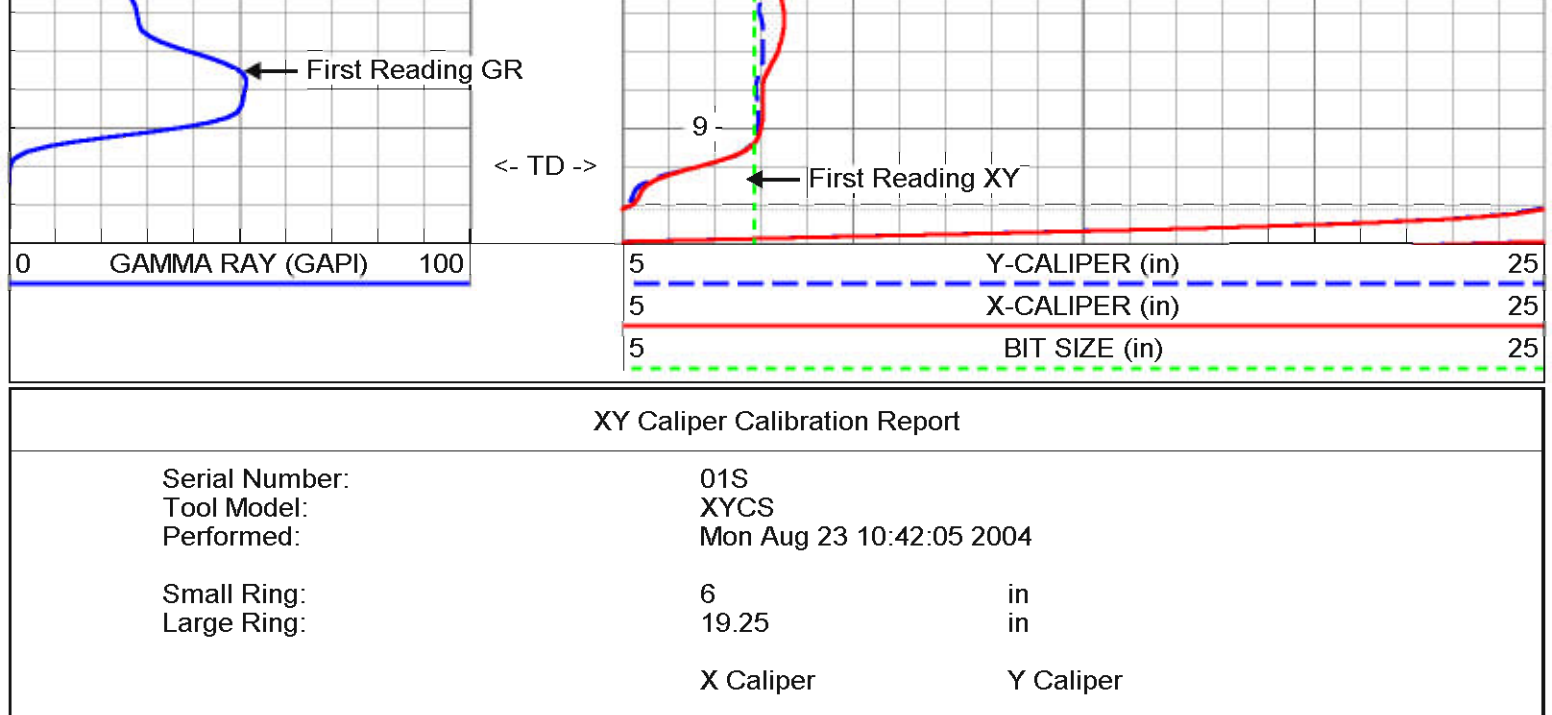
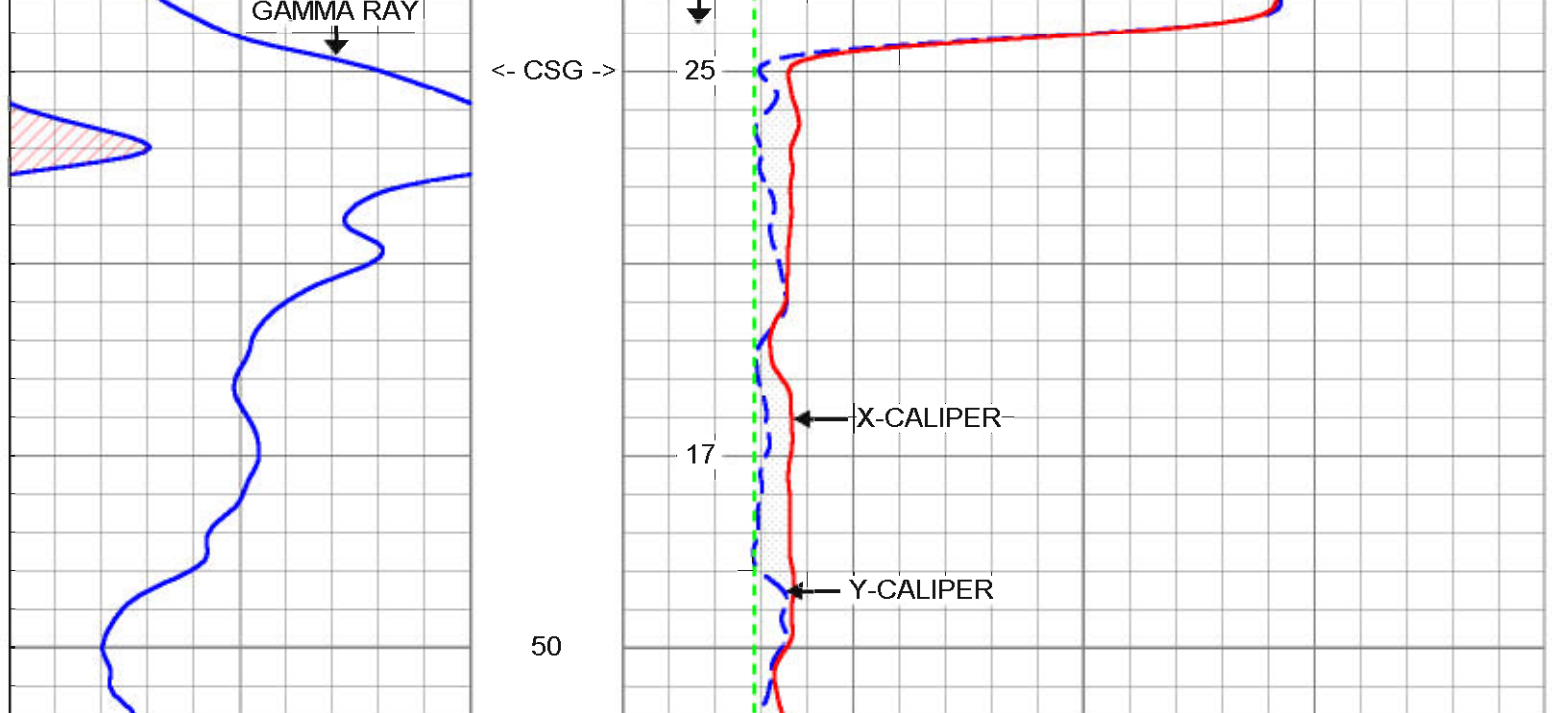
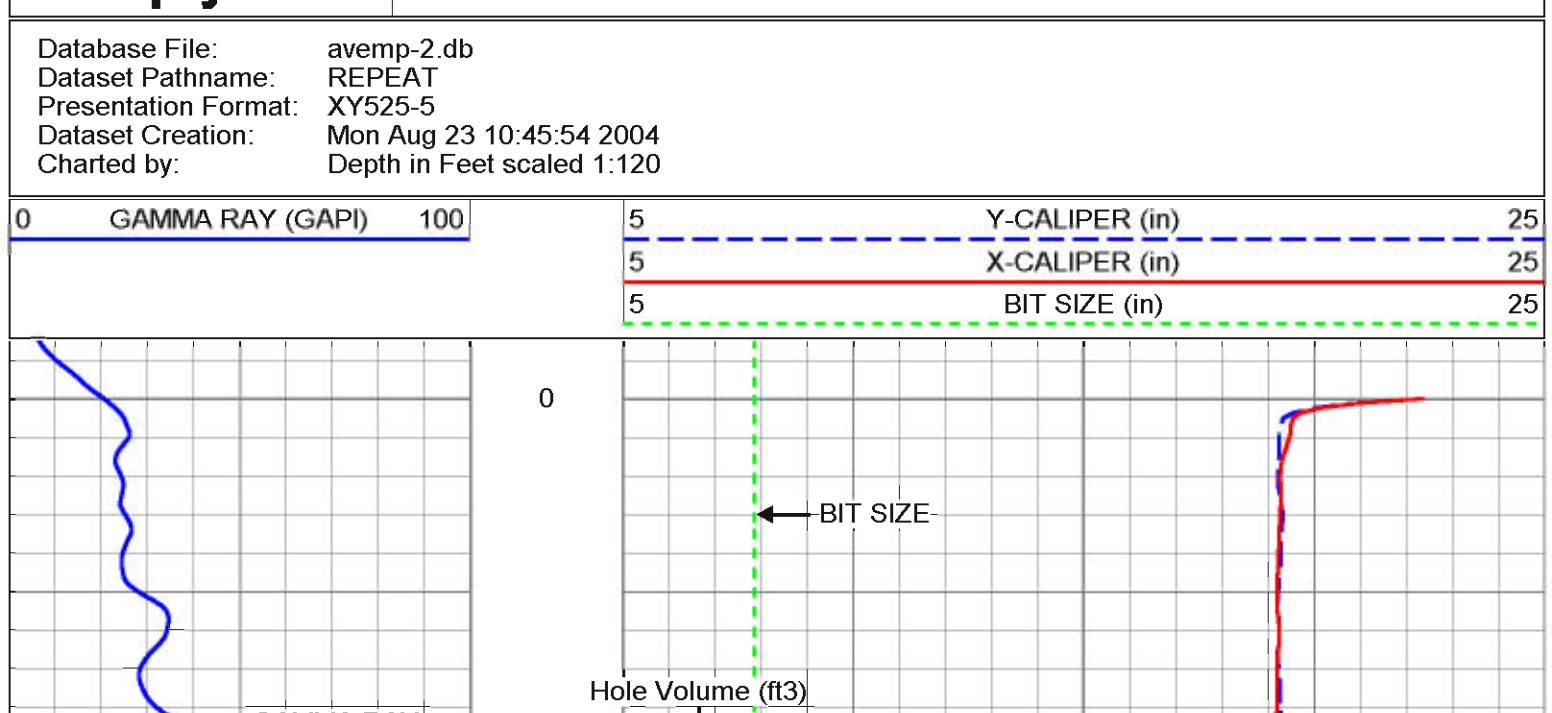
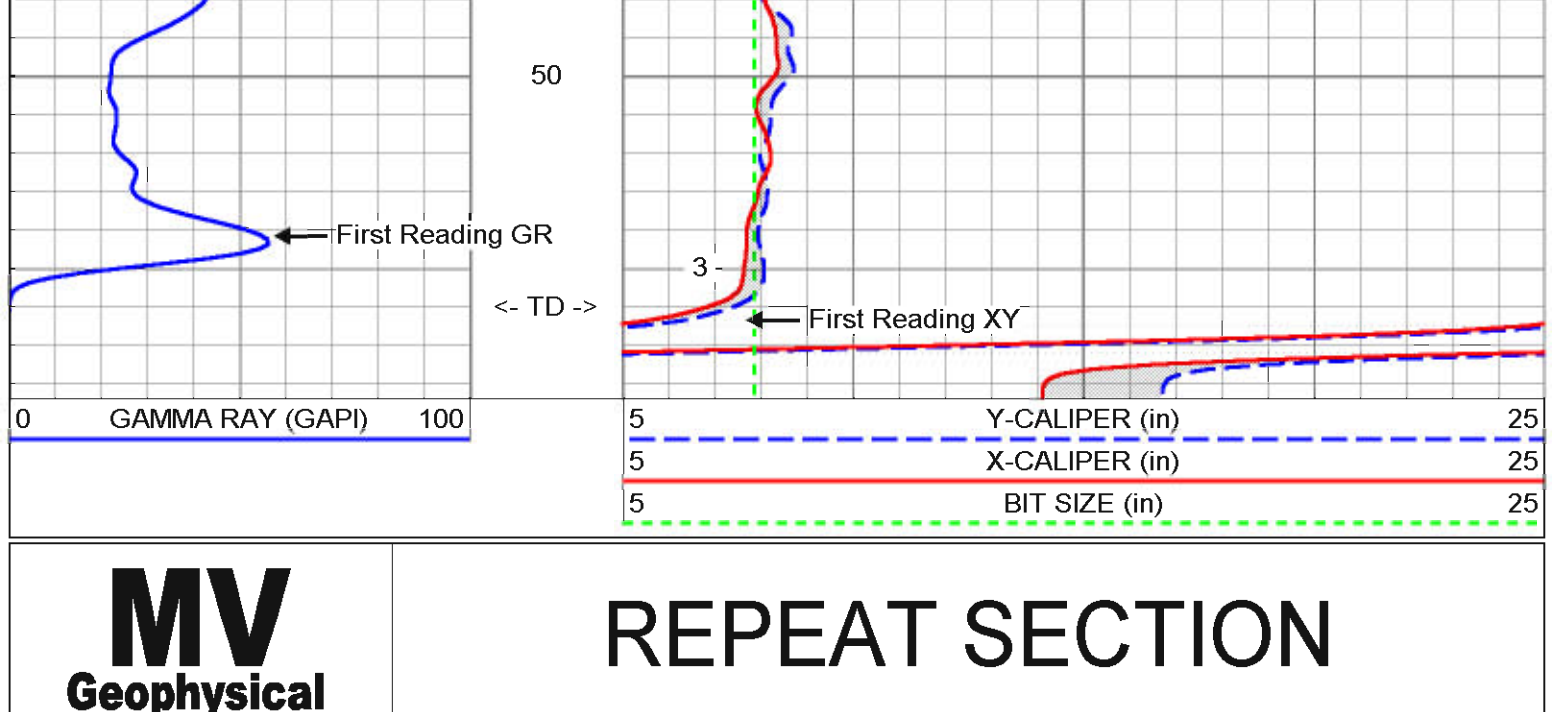
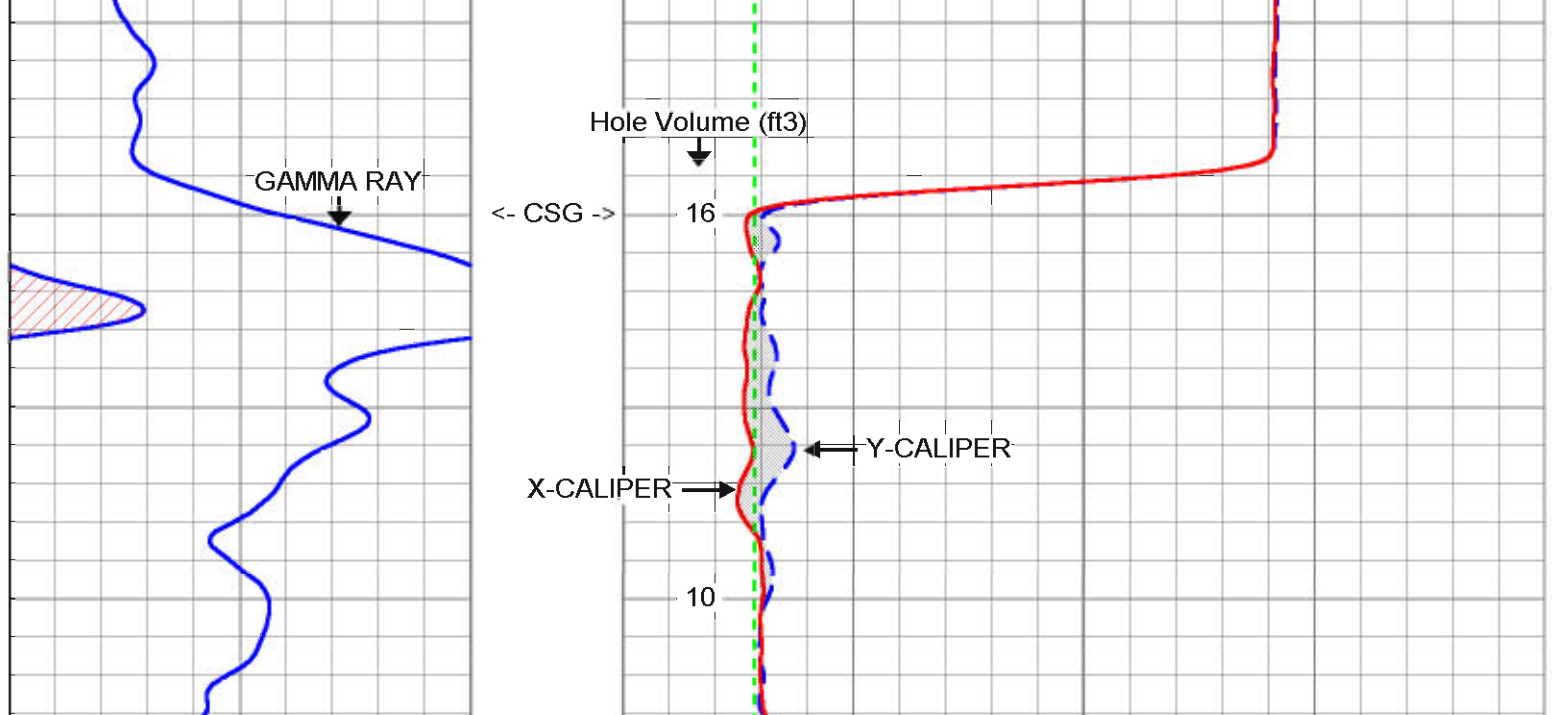
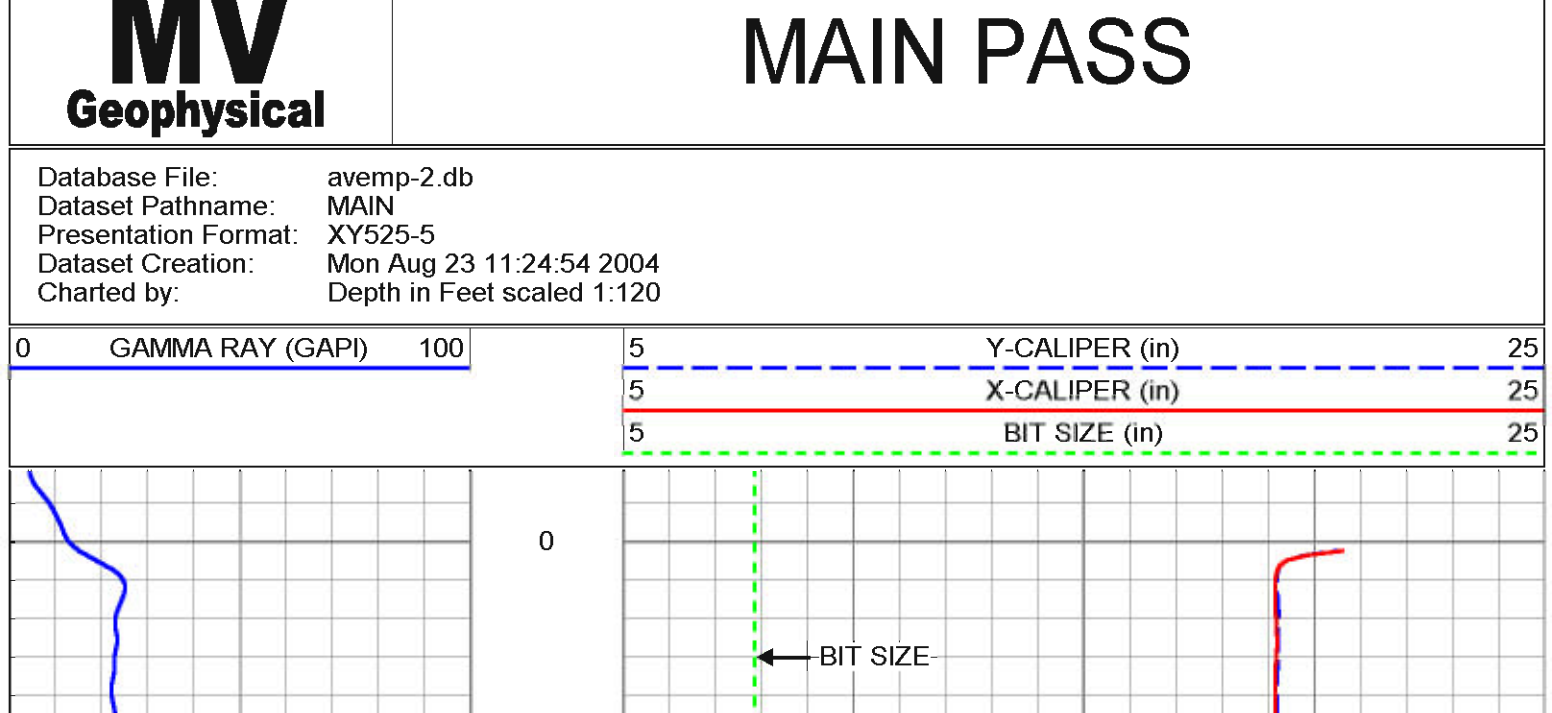
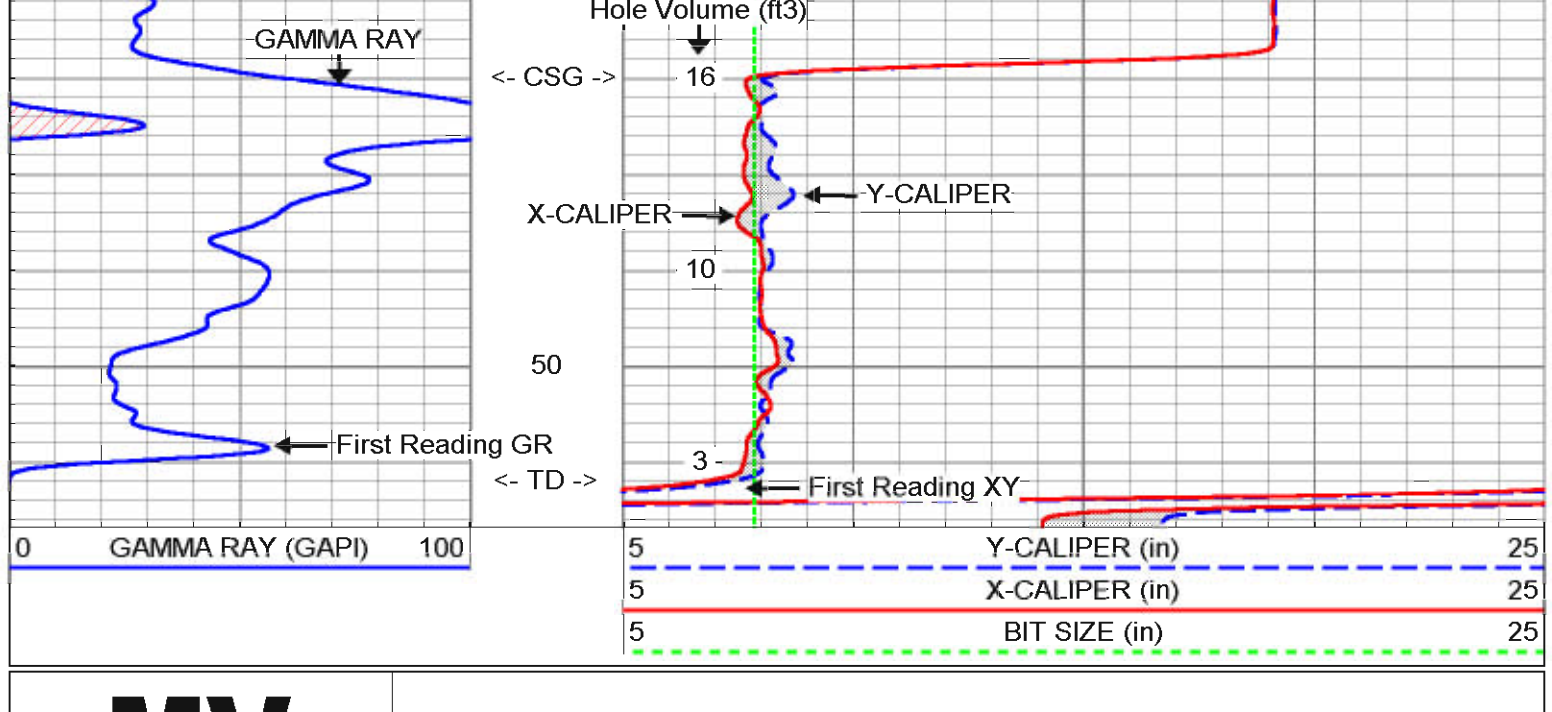
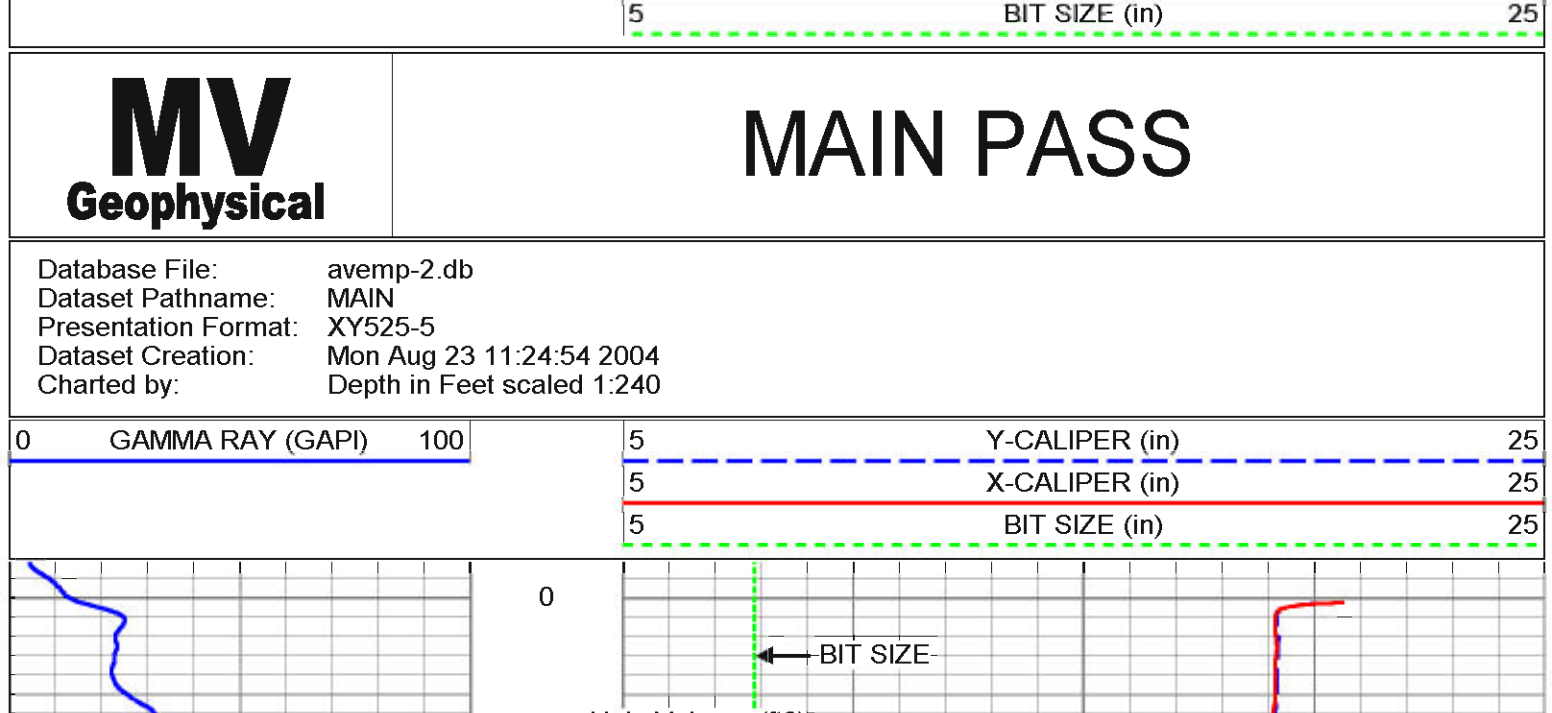
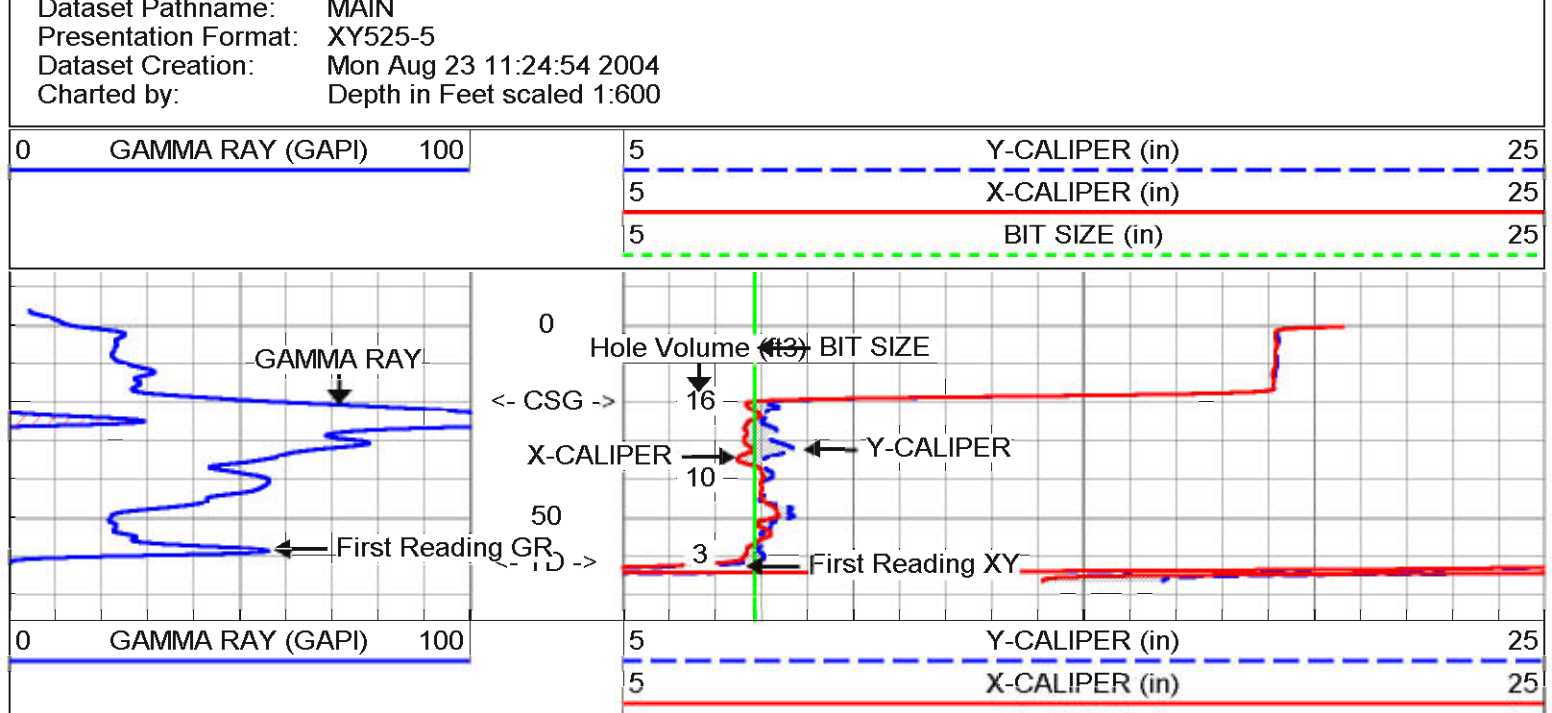
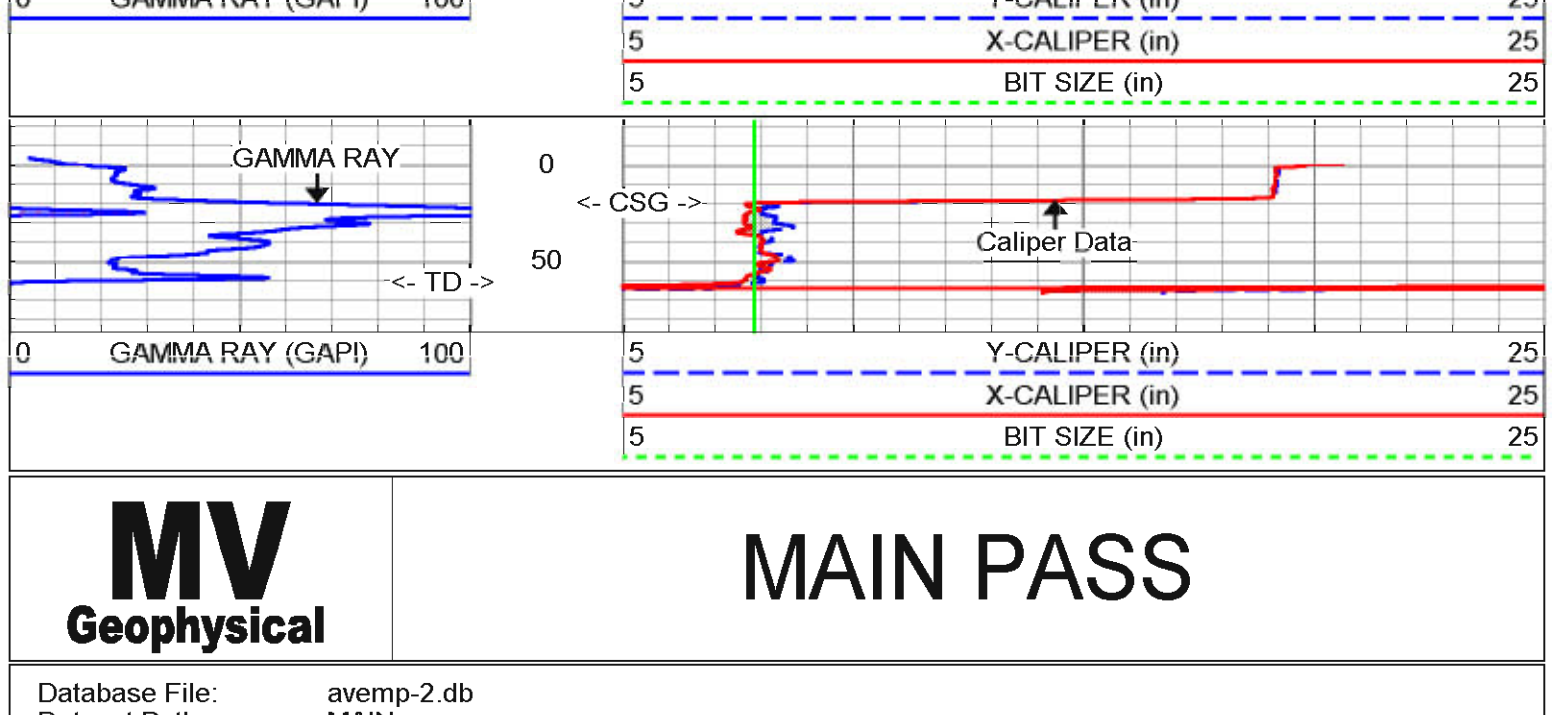
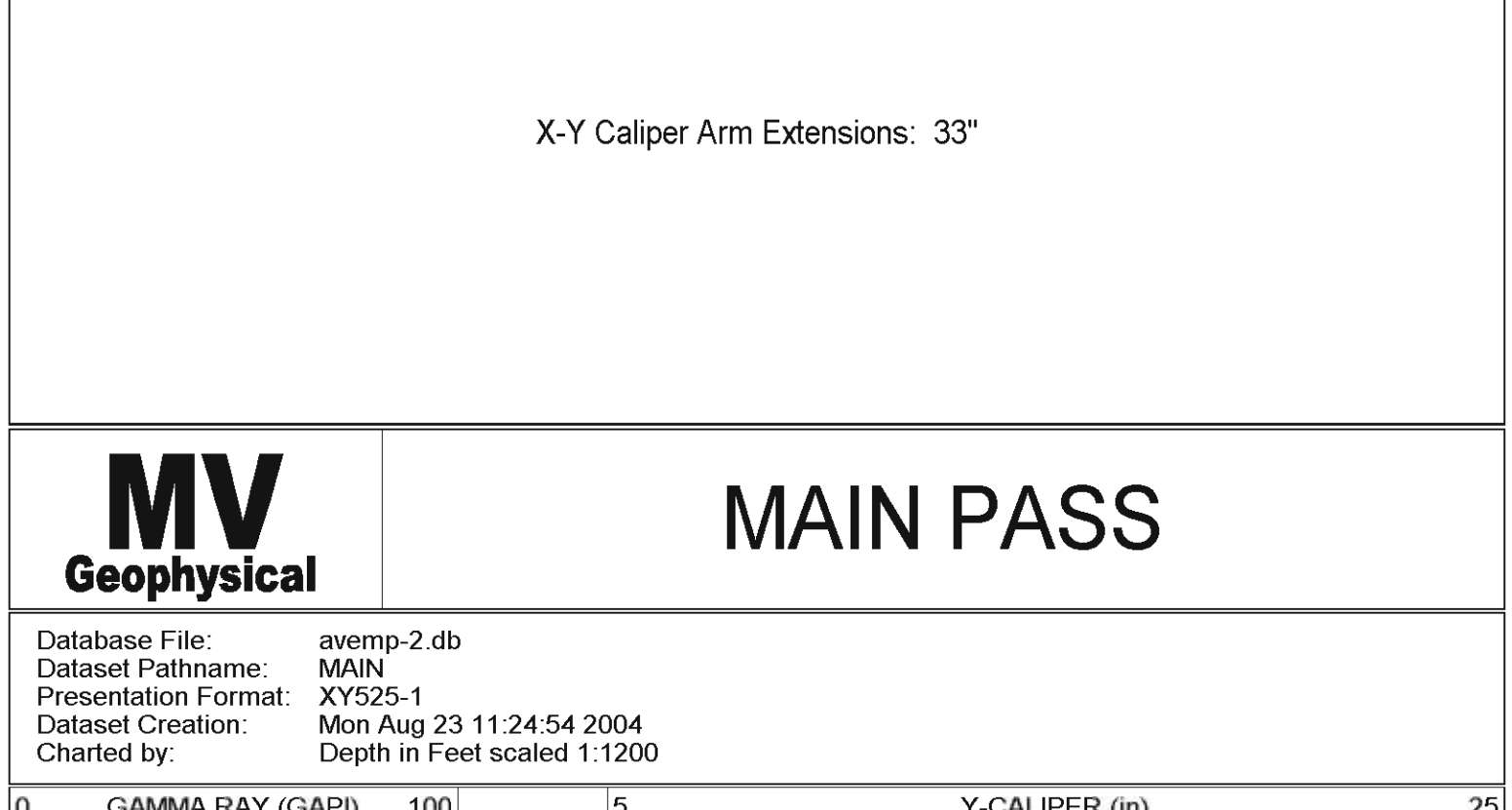
Dataset: run2/pass3
 Total Length: 9.35 ft
 Total Weight: 150.00 lb
 O.D.: 3.50 in

Well P-2

Company	Diversified Drilling Corp.	Well	Ave Maria P-2	Field	Ave Maria University	County	Collier	State/Prv	Florida
Company	Diversified Drilling Corporation	Well	Ave Maria P-2	Field	Ave Maria University	County	Collier	State/Prv	Florida
Location	Ave Maria WWTP & WTP	Location	CH2M Hill, Inc.	Other Services					
Penetration	GL	Elevation	GL	Elevation	GL				
Log Measured From	GL	Drilling Measured From	GL						
Run Number	ONE	Date	23-AUG-2004						
Depth Driller	62'	Bottom Logger	62'						
Bottom Logged Interval	SURFACE	Top Log Interval	7.875'						
Open Hole Size		Type Fluid	MUD	Density / Viscosity	NA	Max. Recorded Temp.	NA	Estimated Cement Top	10:30 8/23/04
Time Well Ready		Equipment Number	MVGS-1	Time Logger on Bottom	10:30 8/23/04	Recorded By	Fl Myers	Witnessed By	C. Ivey (CH2M)
Run Number	ONE	Bit	7.875"	From	20'	To	62'	Size	20"
Weight	7.875"	Tubing Record		From		To		Weight	
Widener	0.375" WT	Top	SURFACE	Bottom	20'				
Production String									
Liner									

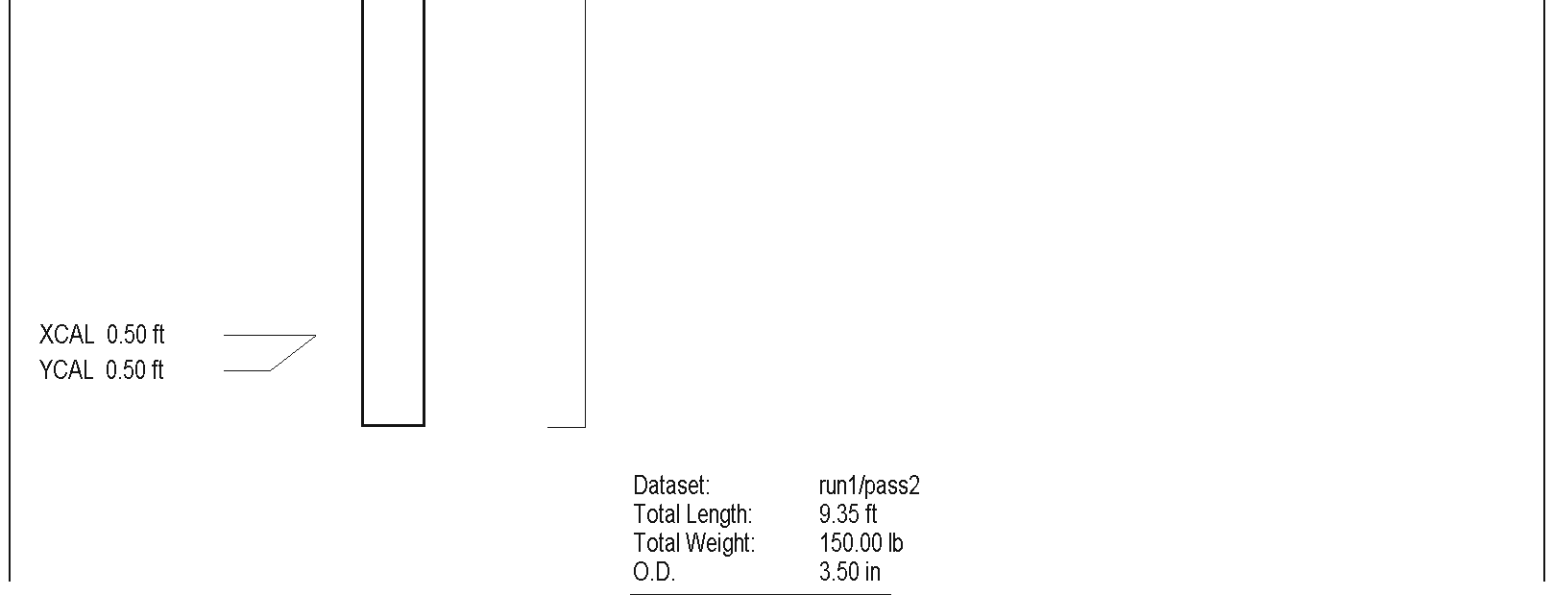
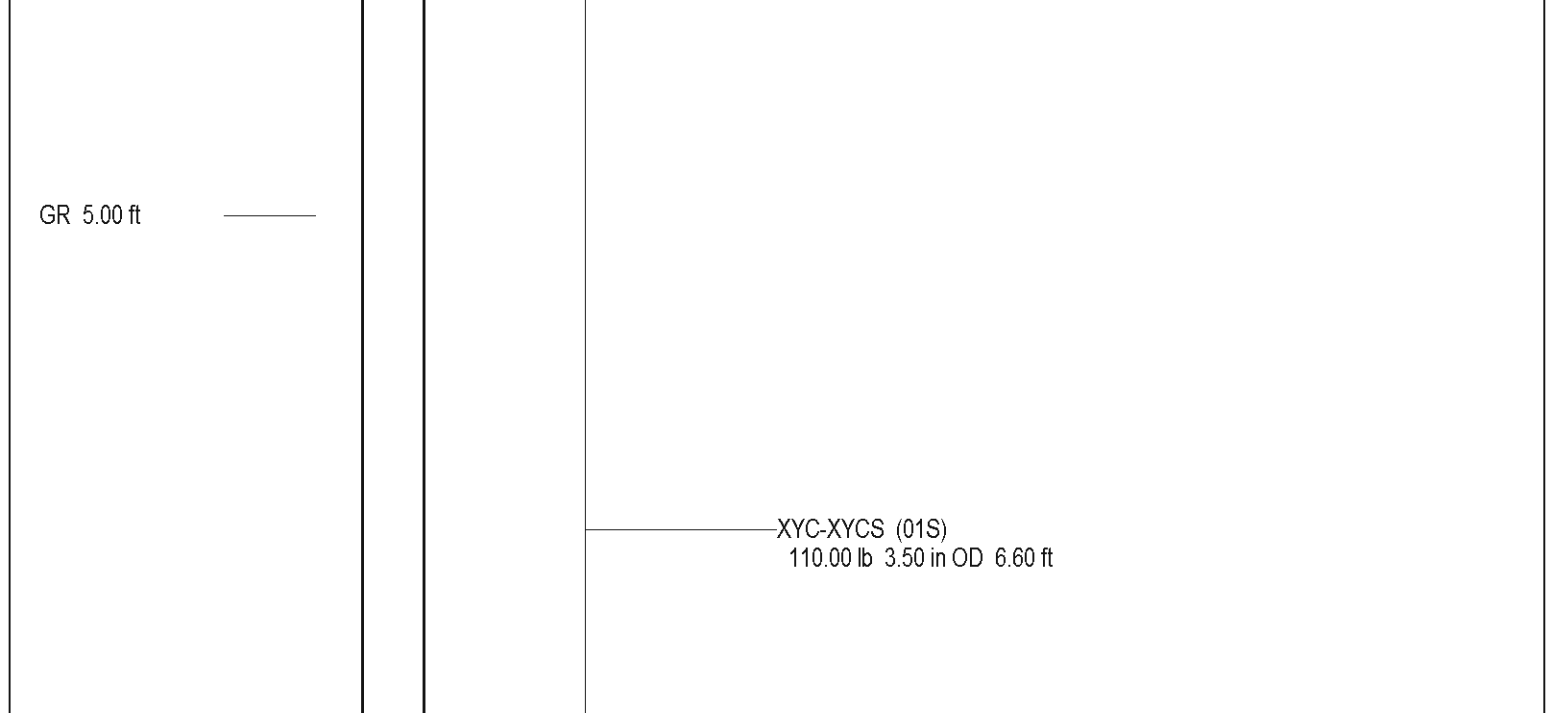
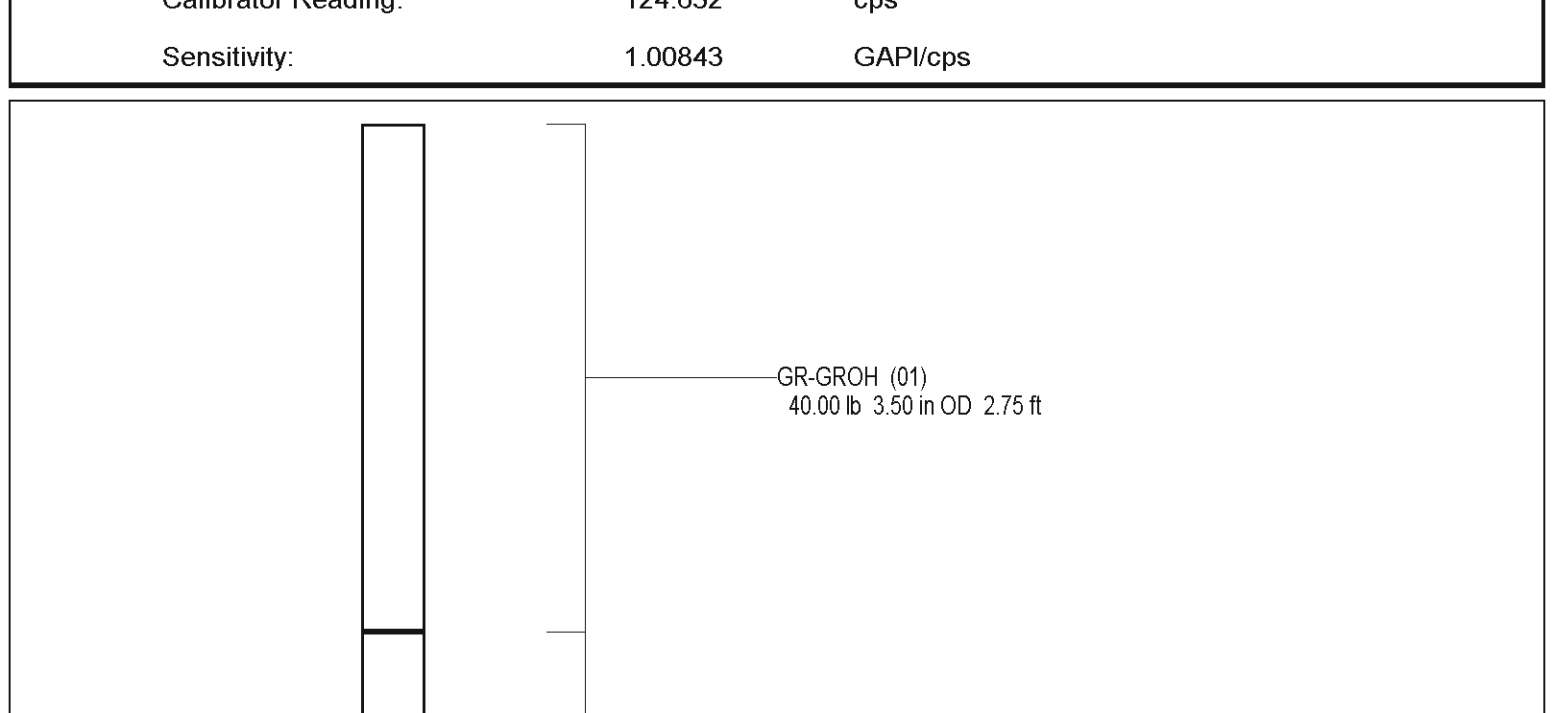
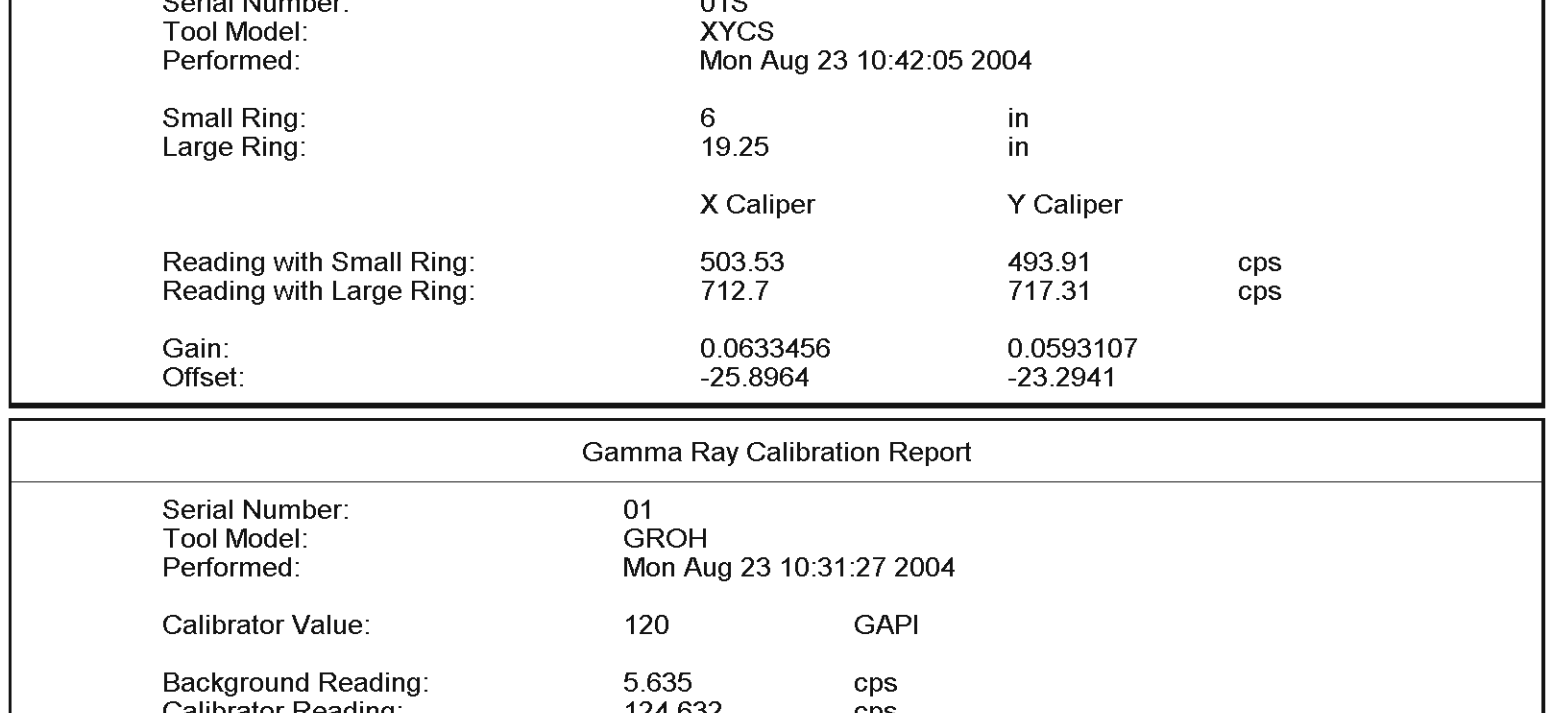
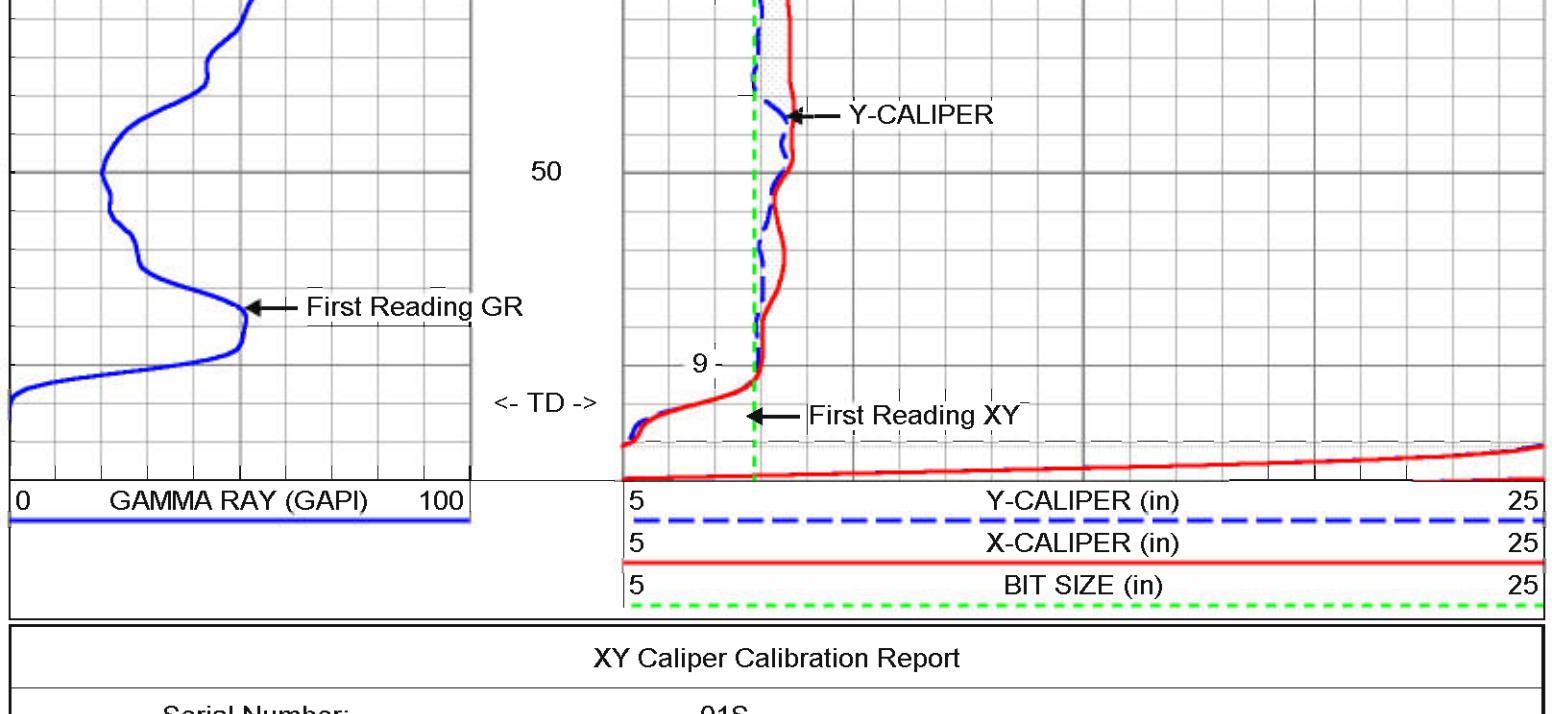
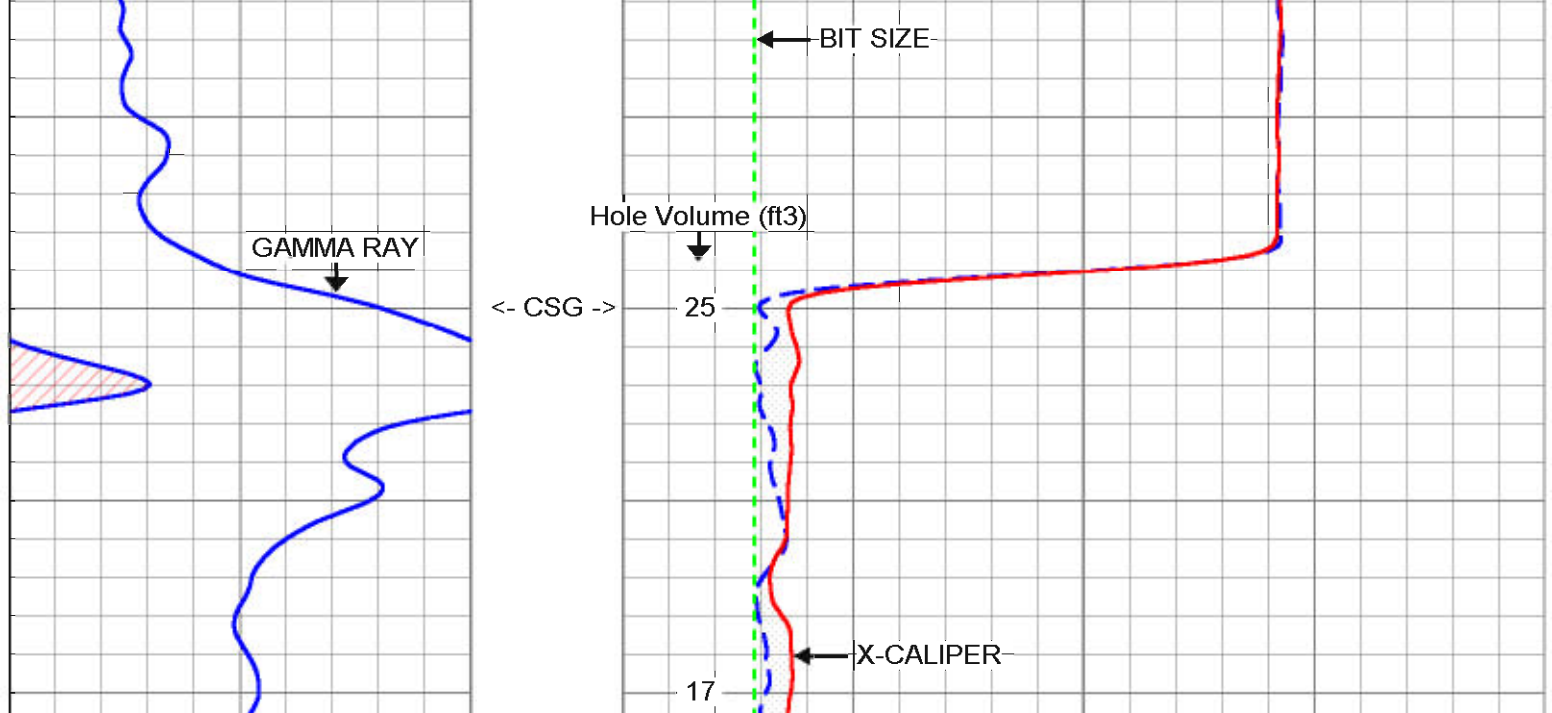
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REPEAT SECTION

Database File: avemp-2.db
Dataset Pathname: REPEAT
Presentation Format: XY525-5
Dataset Creation: Mon Aug 23 10:45:54 2004
Charted by: Depth in Feet scaled 1:1200



XY Caliper Calibration Report

Serial Number: 01S
Tool Model: XYCS
Performed: Mon Aug 23 10:42:05 2004

Small Ring: 6 in
Large Ring: 19.25 in

Reading with Small Ring: 503.53 cps
Reading with Large Ring: 712.7 cps

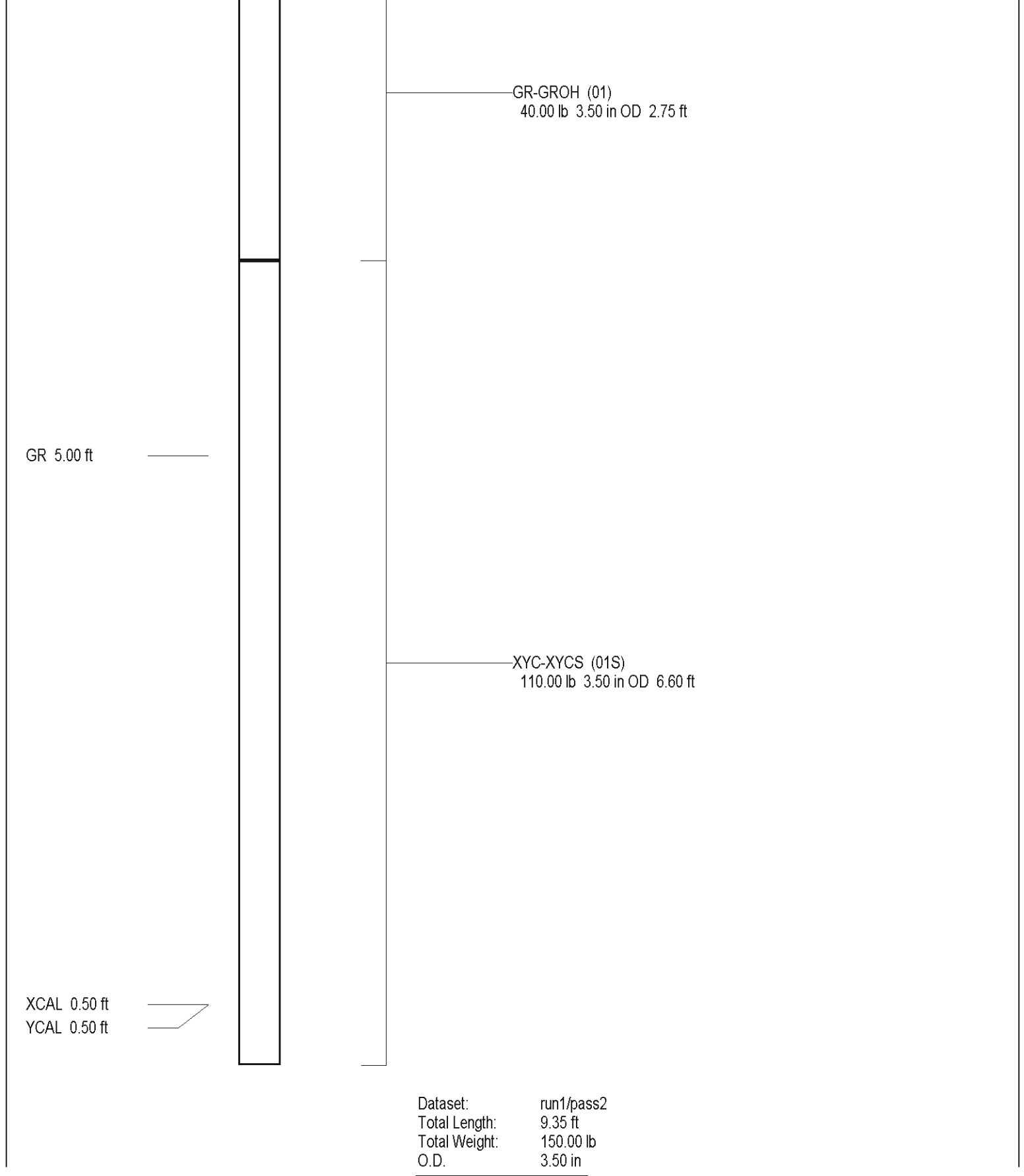
Gain: 0.0633456
Offset: -25.8964

Gamma Ray Calibration Report

Serial Number: 01
Tool Model: GROH
Performed: Mon Aug 23 10:31:27 2004

Calibrator Value: 120 GAPI
Background Reading: 5.635 cps

Calibrator Reading: 124.632 cps
Sensitivity: 1.00843 GAPI/cps



Dataset: run1/pass2
Total Length: 9.35 ft
Total Weight: 150.00 lb
O.D.: 3.50 in

FLUID CONDUCTIVITY TEMPERATURE LOG



Company Diversified Drilling Corp.
 Well Ave Maria P-2
 Field Ave Maria University
 County Collier
 State/Prv Florida

Company	Diversified Drilling Corporation	
Well	Ave Maria P-2	
Field	Ave Maria University	
County	Collier	
State/Prv	Florida	
Location	Ave Maria WWTP & WTP CH2M Hill, Inc.	Other Services XY/GR DI/SP FLO/VIDEO
Permanent Datum	G.L.	Elevation
Log Measured From	G.L.	K.B. D.F. G.L.
Drilling Measured From	G.L.	Elevation
Date	27-AUG-2004	
Run Number	TWO	
Depth Driller	80'	
Depth Logger	80'	
Bottom Logged Interval	78'	
Top Log Interval	69'	
Open Hole Size	11"	
Type Fluid	WATER	
Density / Viscosity	NA/NA	
Max. Recorded Temp.	na	
Estimated Cement Top	NA	
Time Well Ready	10:00 8/27/04	
Time Logger on Bottom	11:30 8/27/04	
Equipment Number	MVGS-1	
Location	Ft. Myers	
Recorded By	S. Miller	
Witnessed By	C. Ivory (CH2M)	
Run Number	Borehole Record	Tubing Record
ONE	Bit From To	Size Weight From To
TWO	7.875" 20' 62'	11" 59' 80'
Casing Record	Size	Wgt/Ft
Surface String	20"	0.375" WT
Prot. String	12" SDR 17	11.125" ID
Production String		
Liner		
Invoice No	2004127	

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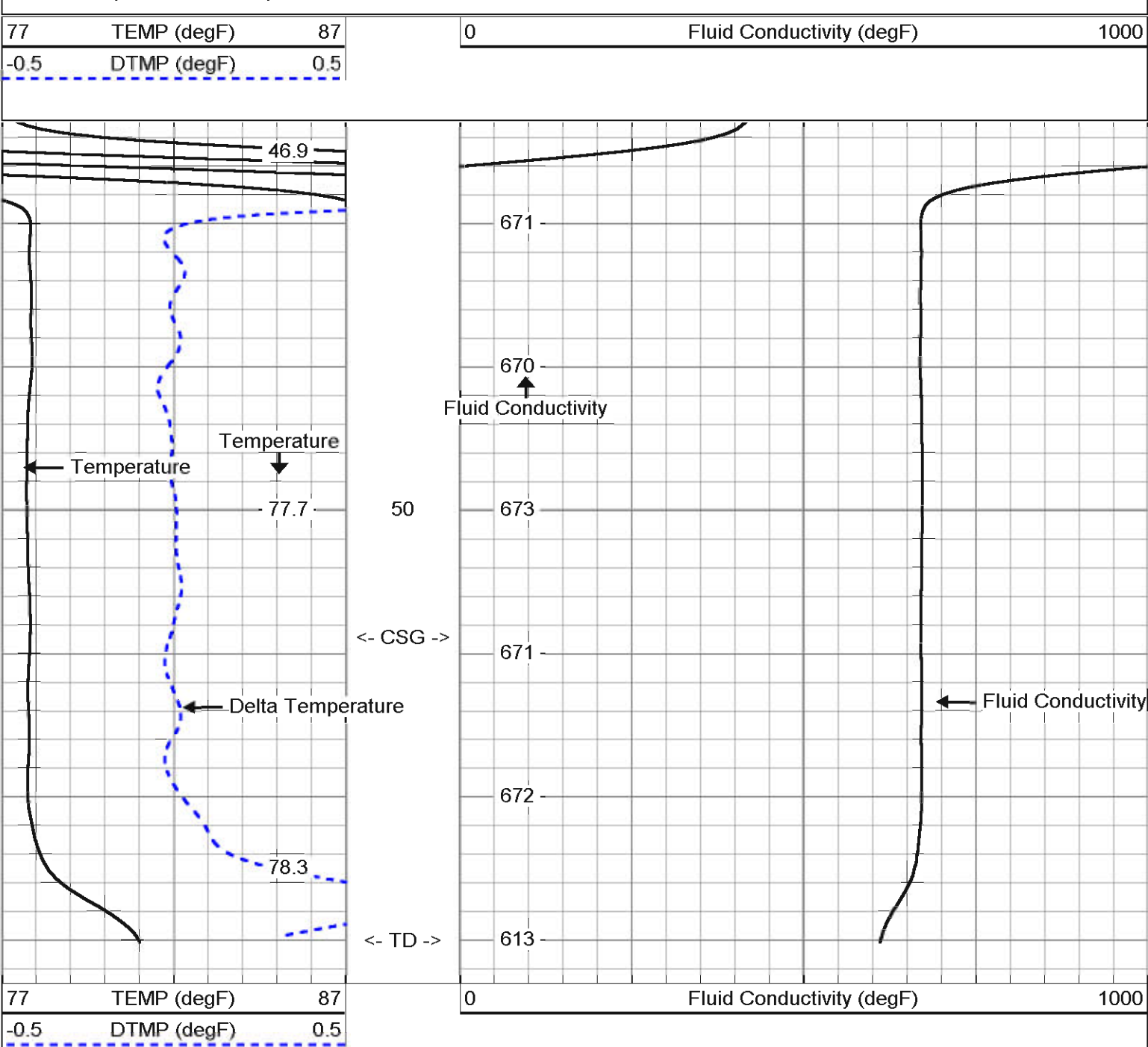
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Comments

STATIC and DYNAMIC DOWN passes were performed.
 Cw=672.2 uS/cm @ 77.3 degF (Dynamic Sample). Q ~500-550 gpm.
 FLUID RESISTIVITY CALIBRATION REPORT (Performed: 16-AUG-04 13:00)
 OHM-M CPS
 335.0 4565.33
 820.1 4400.12
 1525.1 3890.11
 TEMPERATURE CALIBRATION REPORT (Performed: 16-AUG-04 13:45)
 DEG-F CPS
 34.6 2346.14
 144.6 6955.44

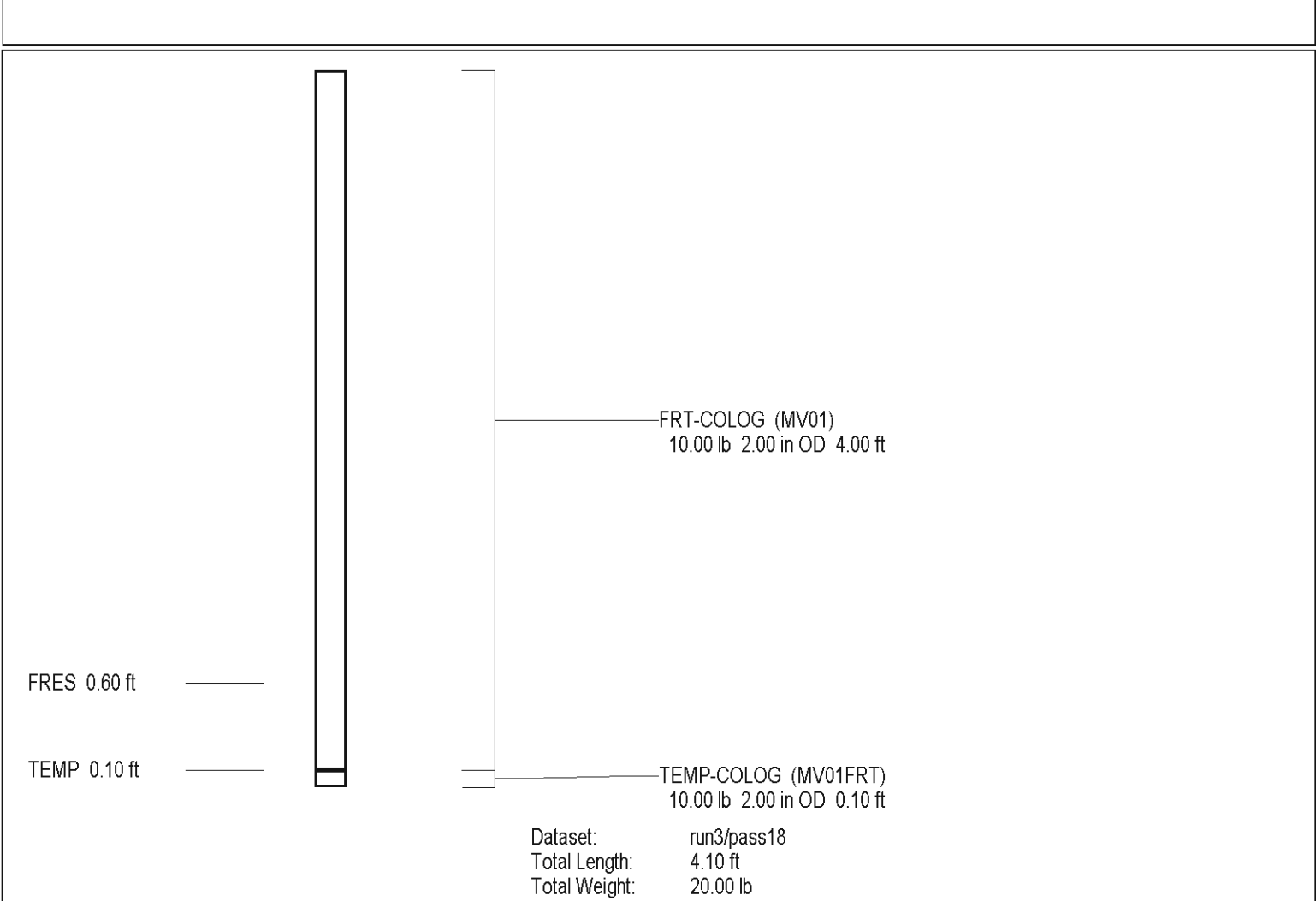
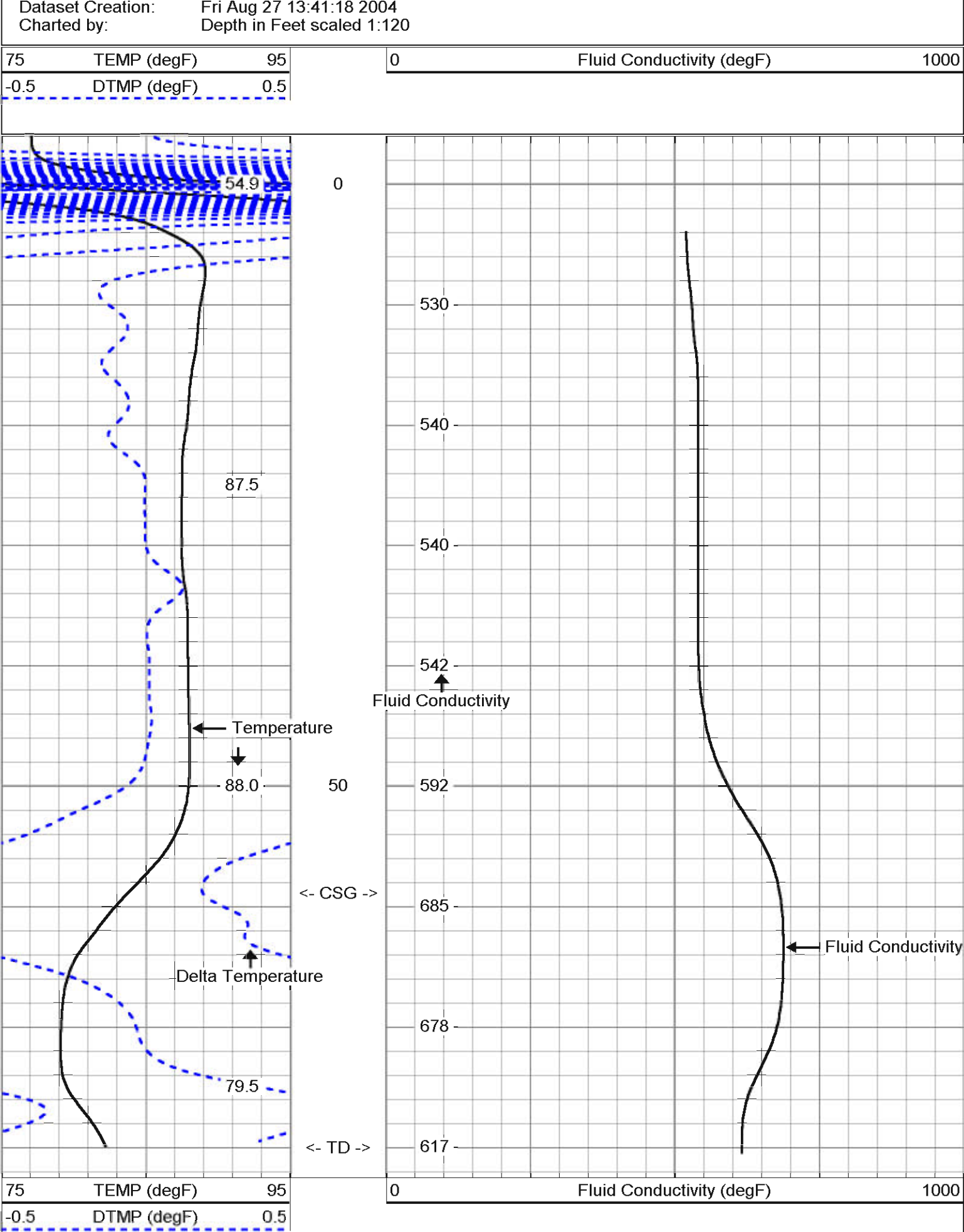
DYNAMIC FCT DOWN

Database File: avemp-2.db
 Dataset Pathname: run2/DFCT
 Presentation Format: FCTAVE
 Dataset Creation: Fri Aug 27 14:01:18 2004
 Charted by: Depth in Feet scaled 1:120



STATIC FCT DOWN

Database File: avemp-2.db
 Dataset Pathname: run2/SFCT
 Presentation Format: FCTAVE2
 Dataset Creation: Fri Aug 27 13:41:18 2004
 Charted by: Depth in Feet scaled 1:120



Company	Diversified Drilling Corp.	
Well	Ave Maria P-2	
Field	Ave Maria University	
County	Collier	
State/Prv	Florida	
Location	Ave Maria WWTP & WTP CH2M Hill, Inc.	Other Services X/YGR DL/SP FRT/VIDEO
Permanent Datum	G.L.	Elevation
Log Measured From	G.L.	K R D.L. G.L.
Drilling Measured From	G.L.	
Date	27-AUG-2004	
Run Number	TWO	
Depth Driller	80'	
Depth Logger	80'	
Bottom Logged Interval	78'	
Top Log Interval	59'	
Open Hole Size	11"	
Type Fluid	WATER	
Density / Viscosity	NANA	
Max. Recorded Temp.	na	
Estimated Cement Top	na	
Time Well Ready	10:00 8/27/04	
Time Logger on Bottom	12:00 8/27/04	
Equipment Number	MG/S-1	
Location	Fl Meers	
Recorded By	S. Miller	
Witnessed By	C. Veary (CH2M)	Rosco (DDC)
Run Number	ONE	BotHole Record
ONE	7.875'	Bit
TWO	11"	From
	59'	To
	80'	Size
		Weight
		From
		To
Casing Record	Size	Wt/Ft
Surface String	20"	20'
Prot. String	12" SDR 17	11.125" ID
Production String		
Liner		
	20041727	* FINAL PRINT *

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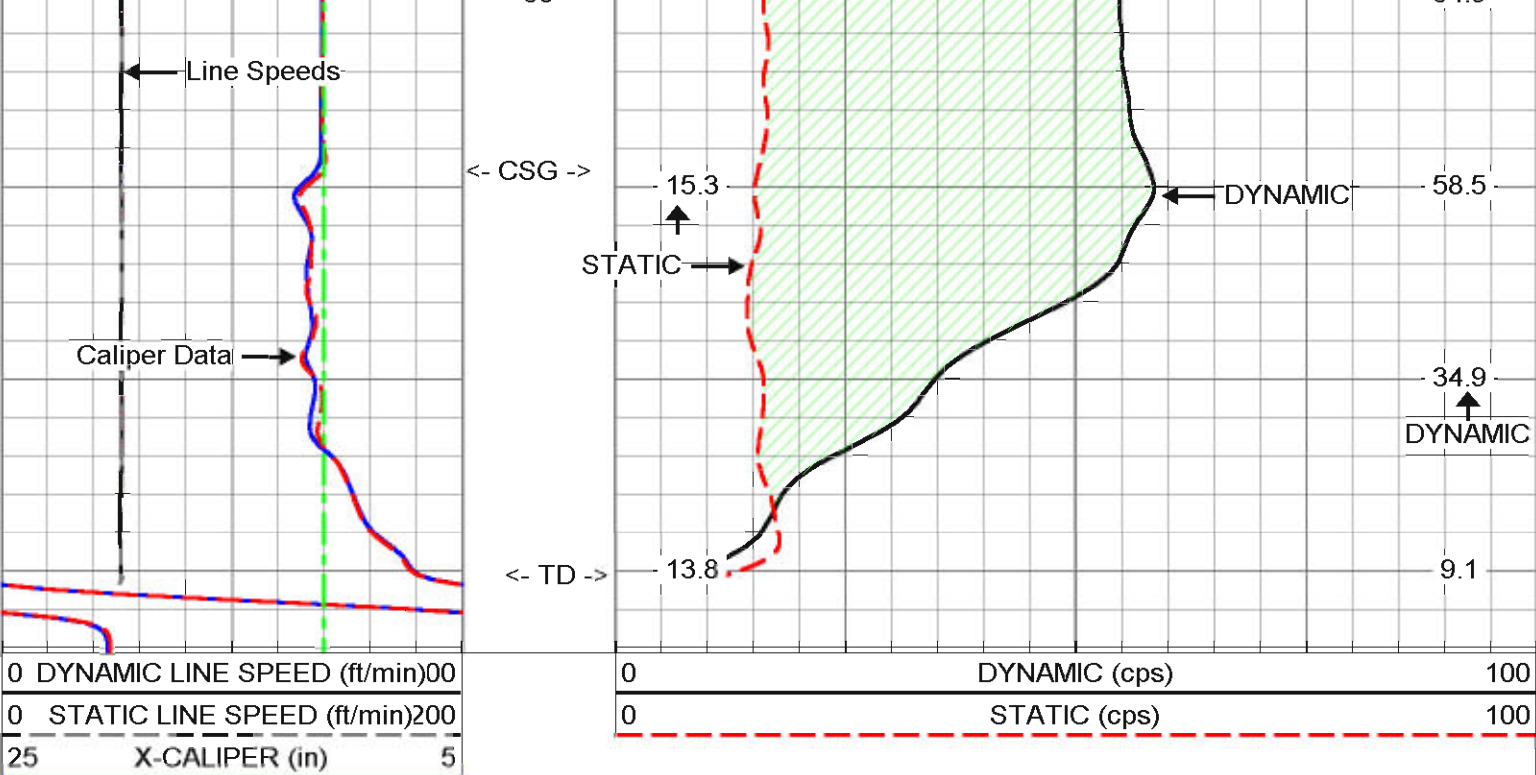
Comments

STATIC and DYNAMIC down passes were made at 50 fpm.
4 Stations were performed.
Q ~500-550 gpm

MV Geophysical S/D DOWN @ 50 fpm

Database File: avemp-2.db
Dataset Pathname: run2/SD50
Presentation Format: QGG2
Dataset Creation: Fri Aug 27 13:31:28 2004
Charted by: Depth in Feet scaled 1:120

0 DYNAMIC LINE SPEED (ft/min)	00	0	DYNAMIC (cps)	100
0 STATIC LINE SPEED (ft/min)	200	0	STATIC (cps)	100
25 X-CALIPER (in)	5			
25 Y CALIPER (in)	5			
25 BIT SIZE (in)	5			

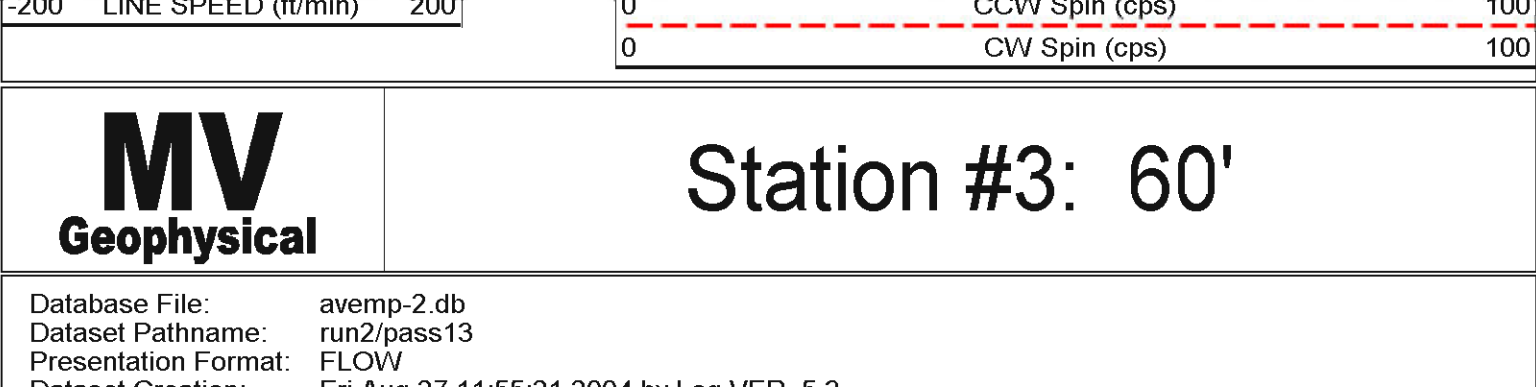


0 DYNAMIC LINE SPEED (ft/min)	00	0	DYNAMIC (cps)	100
0 STATIC LINE SPEED (ft/min)	200	0	STATIC (cps)	100
25 X-CALIPER (in)	5			
25 Y CALIPER (in)	5			
25 BIT SIZE (in)	5			

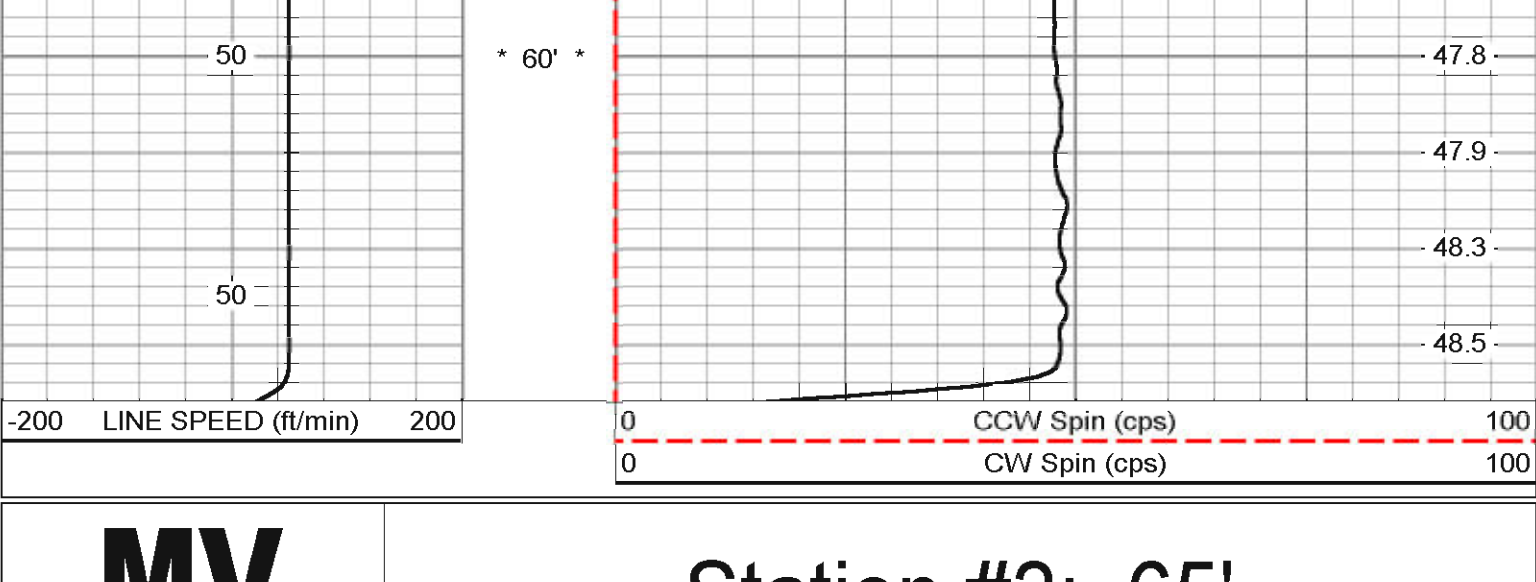
MV Geophysical Station #4: 45'

Database File: avemp-2.db
Dataset Pathname: run2/pass14
Presentation Format: FLOW
Dataset Creation: Fri Aug 27 11:56:56 2004 by Log VER_5.3
Charted by: Depth in Feet scaled 1:240

-200 LINE SPEED (ft/min)	200	0	CCW Spin (cps)	100
		0	CW Spin (cps)	100



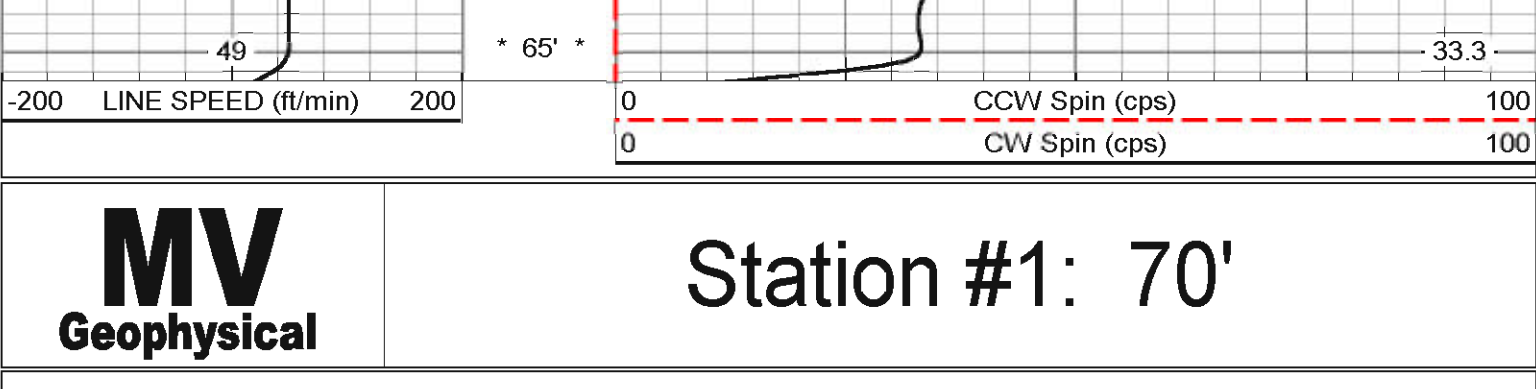
-200 LINE SPEED (ft/min)	200	0	CCW Spin (cps)	100
		0	CW Spin (cps)	100



MV Geophysical Station #2: 65'

Database File: avemp-2.db
Dataset Pathname: run2/pass12
Presentation Format: FLOW
Dataset Creation: Fri Aug 27 11:54:00 2004 by Log VER_5.3
Charted by: Depth in Feet scaled 1:240

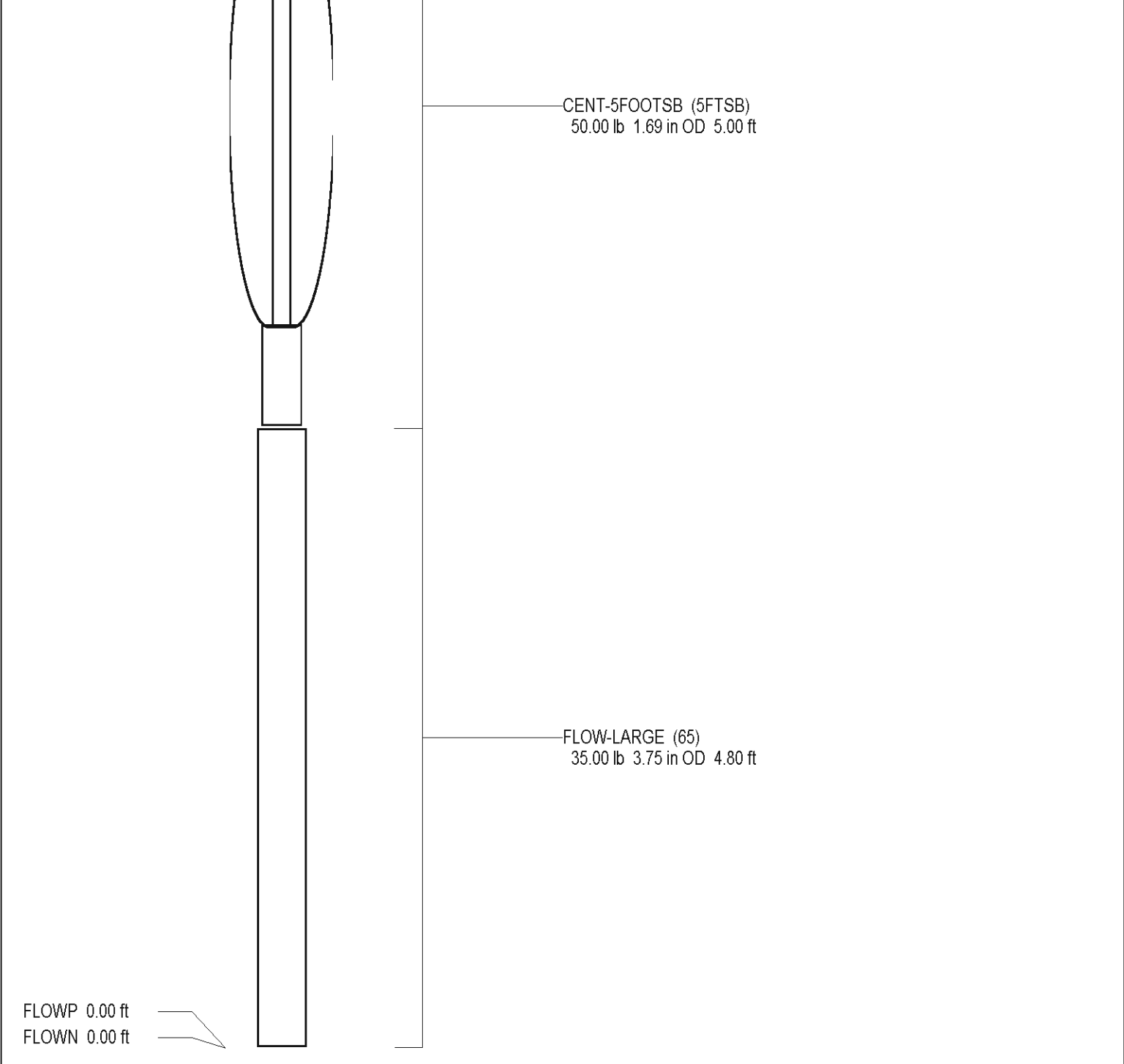
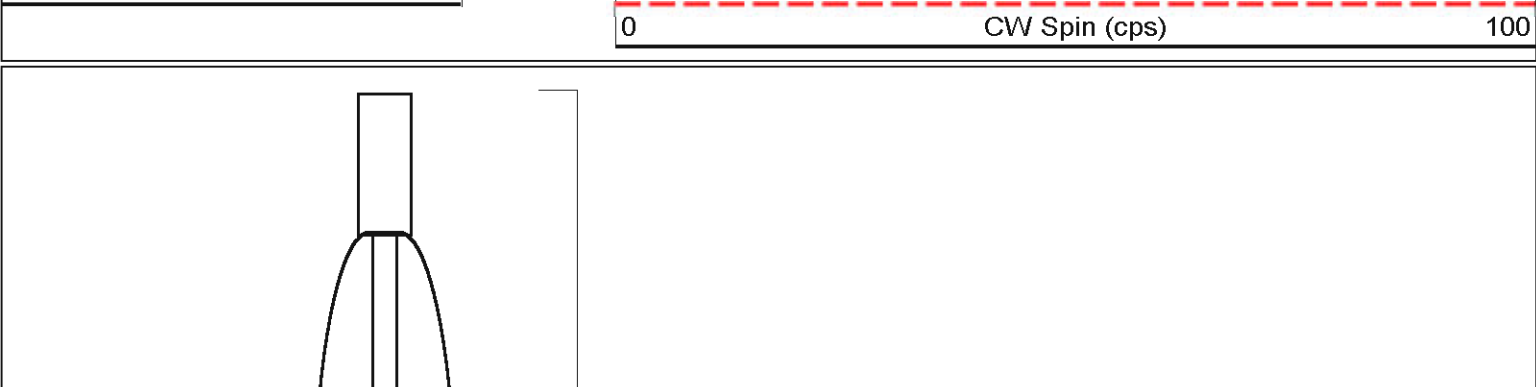
-200 LINE SPEED (ft/min)	200	0	CCW Spin (cps)	100
		0	CW Spin (cps)	100



MV Geophysical Station #1: 70'

Database File: avemp-2.db
Dataset Pathname: run2/pass11
Presentation Format: FLOW
Dataset Creation: Fri Aug 27 11:52:06 2004 by Log VER_5.3
Charted by: Depth in Feet scaled 1:240

-200 LINE SPEED (ft/min)	200	0	CCW Spin (cps)	100
		0	CW Spin (cps)	100



Dataset: run2/pass14
Total Length: 9.80 ft
Total Weight: 85.00 lb
O.D.: 3.75 in

Company	Diversified Drilling Corporation	Location	Ave Maria WWTP & WTP	Other Services	DIL/SP FRT FLOW VIDEO
Well	Ave Maria P-2	County	Collier	State/Priv	Florida
Field	Ave Maria University	City	CH2M Hill, Inc.	Permanent Datum	G.L.
State/Priv	Florida	Log Measured From	G.L.	Elevation	K.B. D.F. G.L.
Date	27-AUG-2004	Run Number	TWO	Drilling Measured From	G.L.
Well	Ave Maria P-2	Depth Dialer	80'	Top Log Interval	80'
County	Collier	Bottom Logger	80'	Bottom Logged Interval	80'
City	CH2M Hill, Inc.	Type Fluid	WATER	Top Log Interval	80'
State/Priv	Florida	Density / Viscosity	NANA	Bottom Logged Interval	80'
Permanent Datum	G.L.	Max. Recorded Temp.	NA	Estimated Cement Top	10.00 8/27/04
Log Measured From	G.L.	Time Well Ready	10.30 8/27/04	Time Logger on Bottom	10.30 8/27/04
Elevation	K.B. D.F. G.L.	Equipment Number	IM/GS-1	Location	FL Myers
Run Number	TWO	Recorded By	S Miller	Witnessed By	C Lively (CH2M)
Depth Dialer	80'	Run Number	7 8/25'	Batch/Job Record	ROSSO (DOO)
Bottom Logger	80'	Run ONE	20'	To	62'
Type Fluid	WATER	TWO	11'	Size	Weight
Density / Viscosity	NANA	Run Number	11'	To	80'
Max. Recorded Temp.	NA	Run ONE	20'	Size	Weight
Estimated Cement Top	10.00 8/27/04	Run Number	11'	To	80'
Time Well Ready	10.30 8/27/04	Run ONE	20'	Size	Weight
Time Logger on Bottom	10.30 8/27/04	Run Number	11'	To	80'
Equipment Number	IM/GS-1	Run ONE	20'	Size	Weight
Location	FL Myers	Run Number	11'	To	80'
Recorded By	S Miller	Run ONE	20'	Size	Weight
Witnessed By	C Lively (CH2M)	Run Number	11'	To	80'
Batch/Job Record	ROSSO (DOO)	Run ONE	20'	Size	Weight
To	62'	Run Number	11'	To	80'
Size	Weight	Run ONE	20'	Size	Weight
12" SURK 17	11.125" ID	Run ONE	20'	Size	Weight
1.2" SURK 17	11.125" ID	Run ONE	20'	Size	Weight
2004127	2004127	Run ONE	20'	Size	Weight

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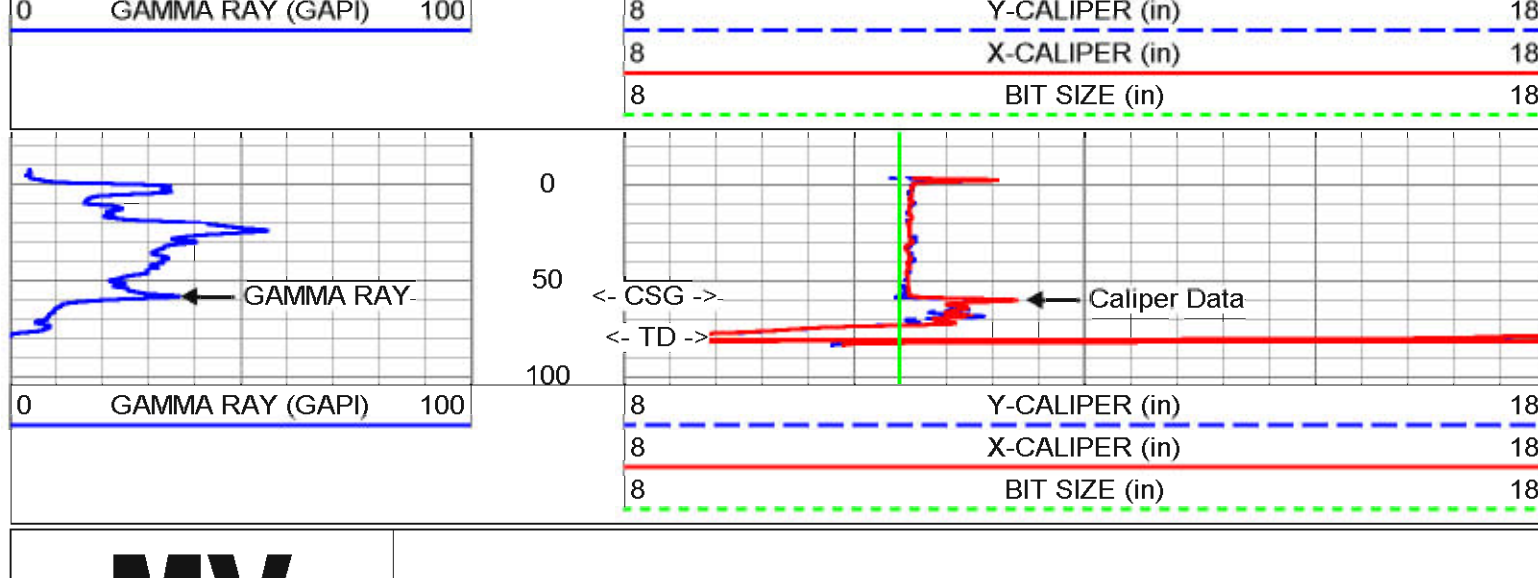
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Comments

X-Y Caliper Arm Extensions: 33"

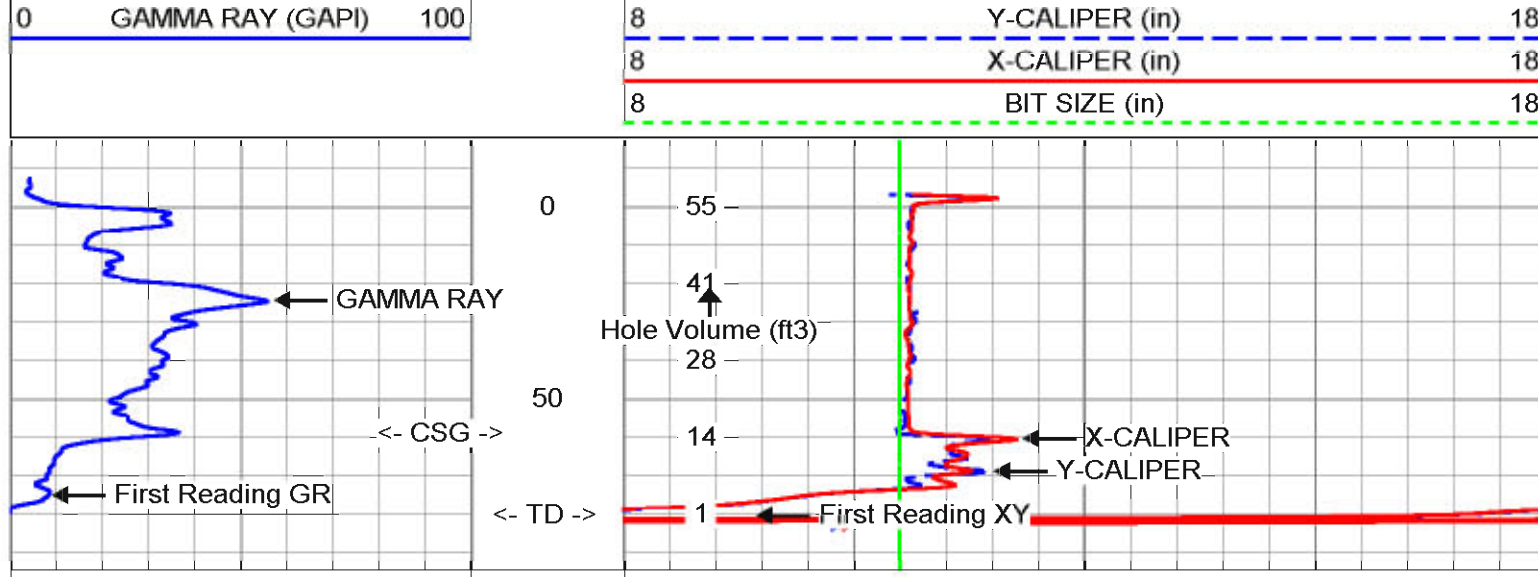
MAIN PASS

Database File: avemp-2.db
Dataset Pathname: run2/MAIN
Presentation Format: XY818-1
Dataset Creation: Fri Aug 27 13:01:37 2004
Charted by: Depth in Feet scaled 1:1200



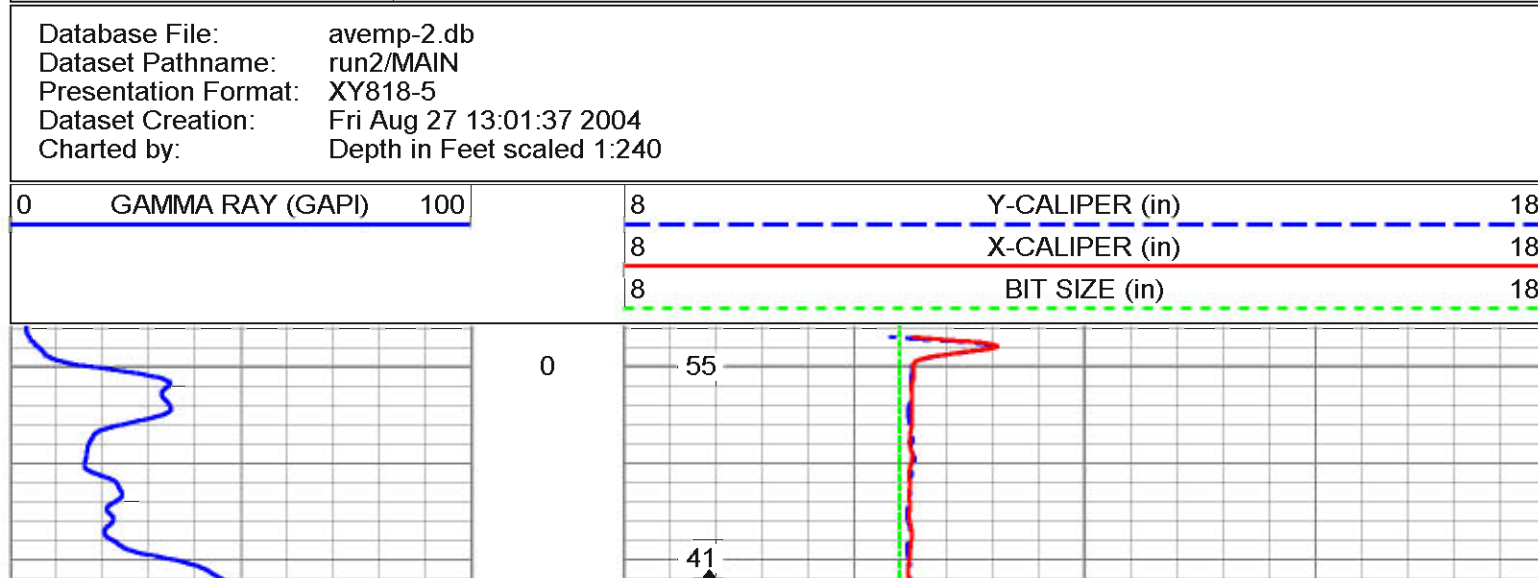
MAIN PASS

Database File: avemp-2.db
Dataset Pathname: run2/MAIN
Presentation Format: XY818-5
Dataset Creation: Fri Aug 27 13:01:37 2004
Charted by: Depth in Feet scaled 1:600



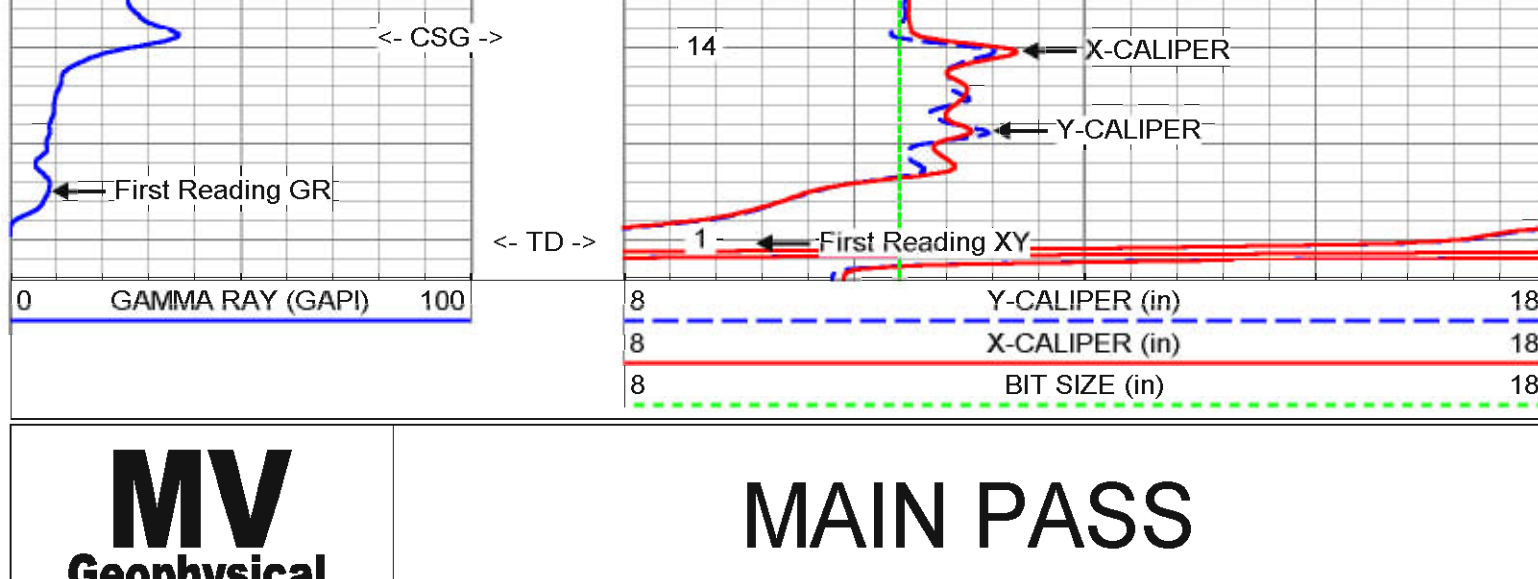
MAIN PASS

Database File: avemp-2.db
Dataset Pathname: run2/MAIN
Presentation Format: XY818-5
Dataset Creation: Fri Aug 27 13:01:37 2004
Charted by: Depth in Feet scaled 1:240



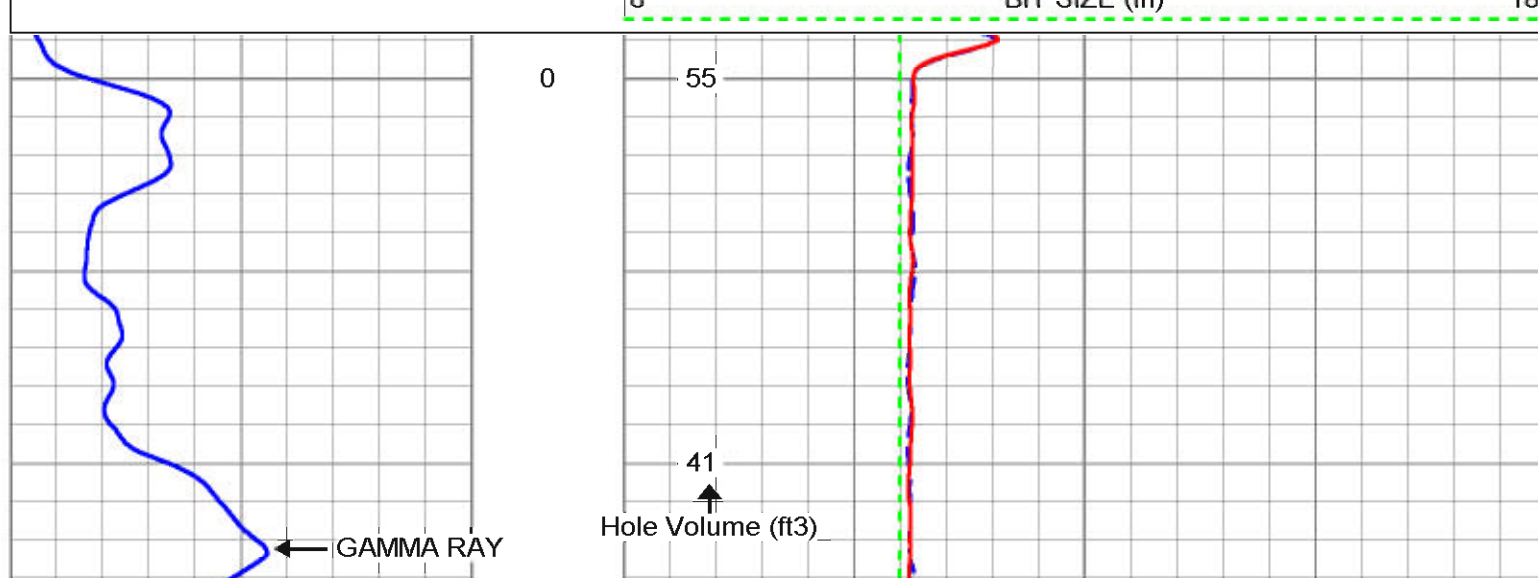
MAIN PASS

Database File: avemp-2.db
Dataset Pathname: run2/MAIN
Presentation Format: XY818-5
Dataset Creation: Fri Aug 27 10:32:33 2004
Charted by: Depth in Feet scaled 1:120



REPEAT SECTION

Database File: avemp-2.db
Dataset Pathname: run2/REPEAT
Presentation Format: XY818-5
Dataset Creation: Fri Aug 27 10:32:33 2004
Charted by: Depth in Feet scaled 1:120



XY Caliper Calibration Report

Serial Number: 01S
Tool Model: XYCS
Performed: Fri Aug 27 10:36:40 2004

Small Ring: 11.125 in
Large Ring: 25.25 in

Reading with Small Ring: 554.1 cps
Reading with Large Ring: 808.7 cps

Gain: 0.0554792
Offset: -19.616

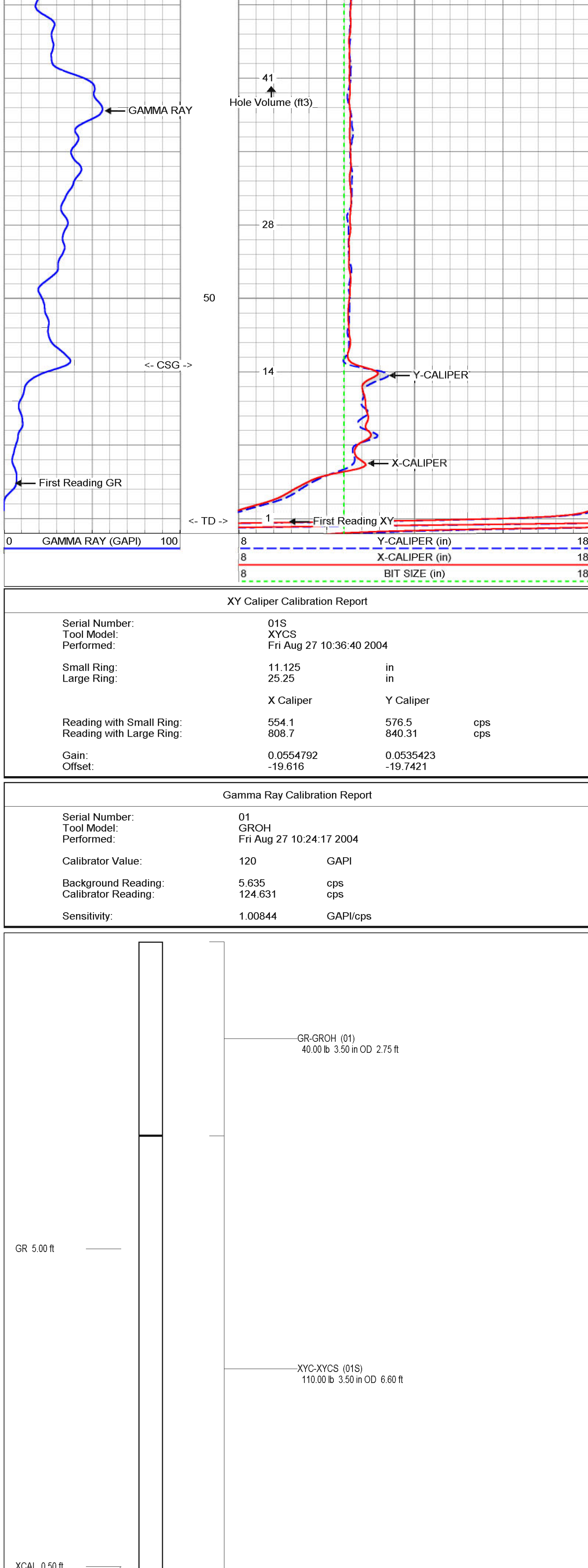
Gamma Ray Calibration Report

Serial Number: 01
Tool Model: GROH
Performed: Fri Aug 27 10:24:17 2004

Calibrator Value: 120 GAPI

Background Reading: 5.635 cps
Calibrator Reading: 124.631 cps

Sensitivity: 1.00844 GAPI/cps



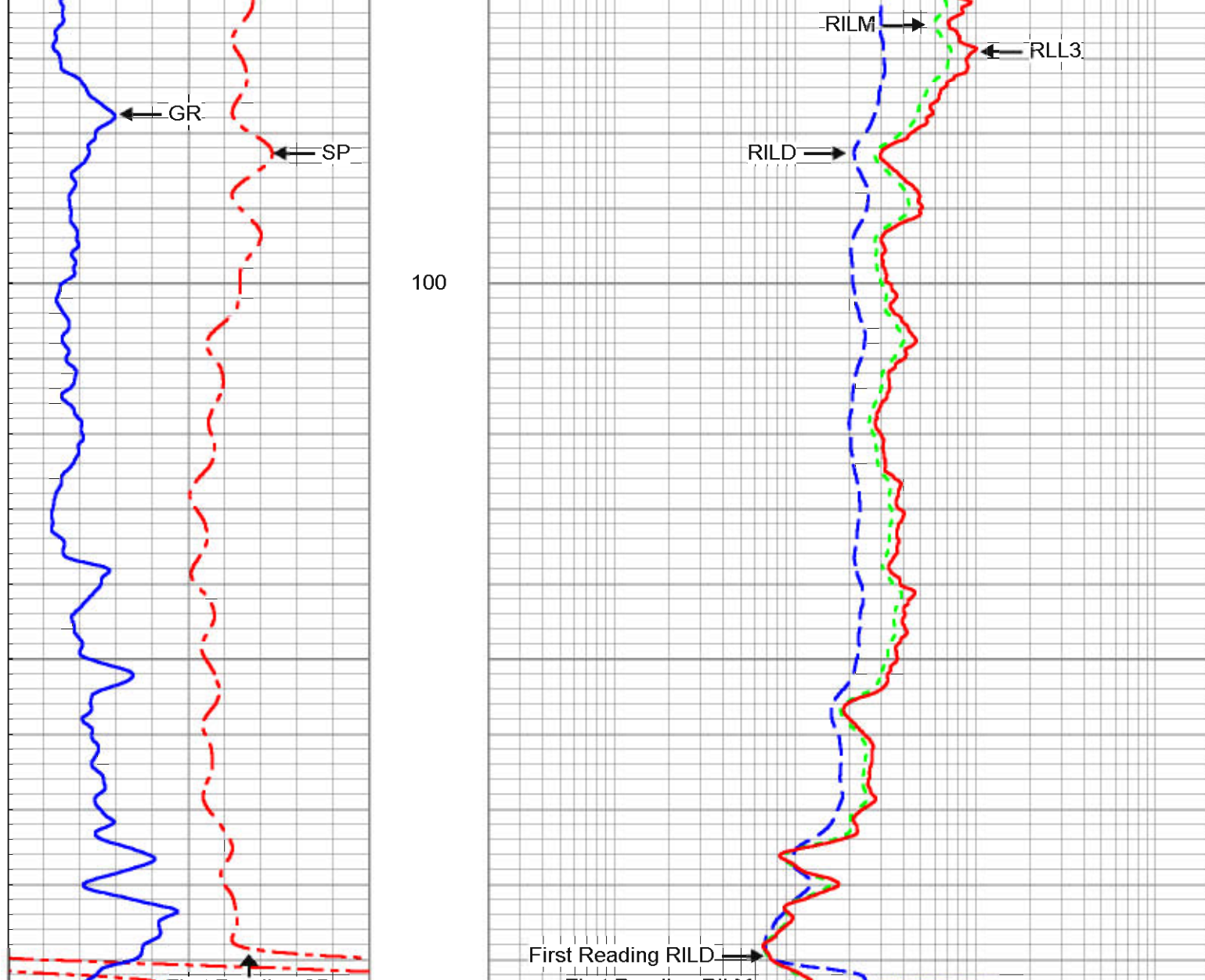
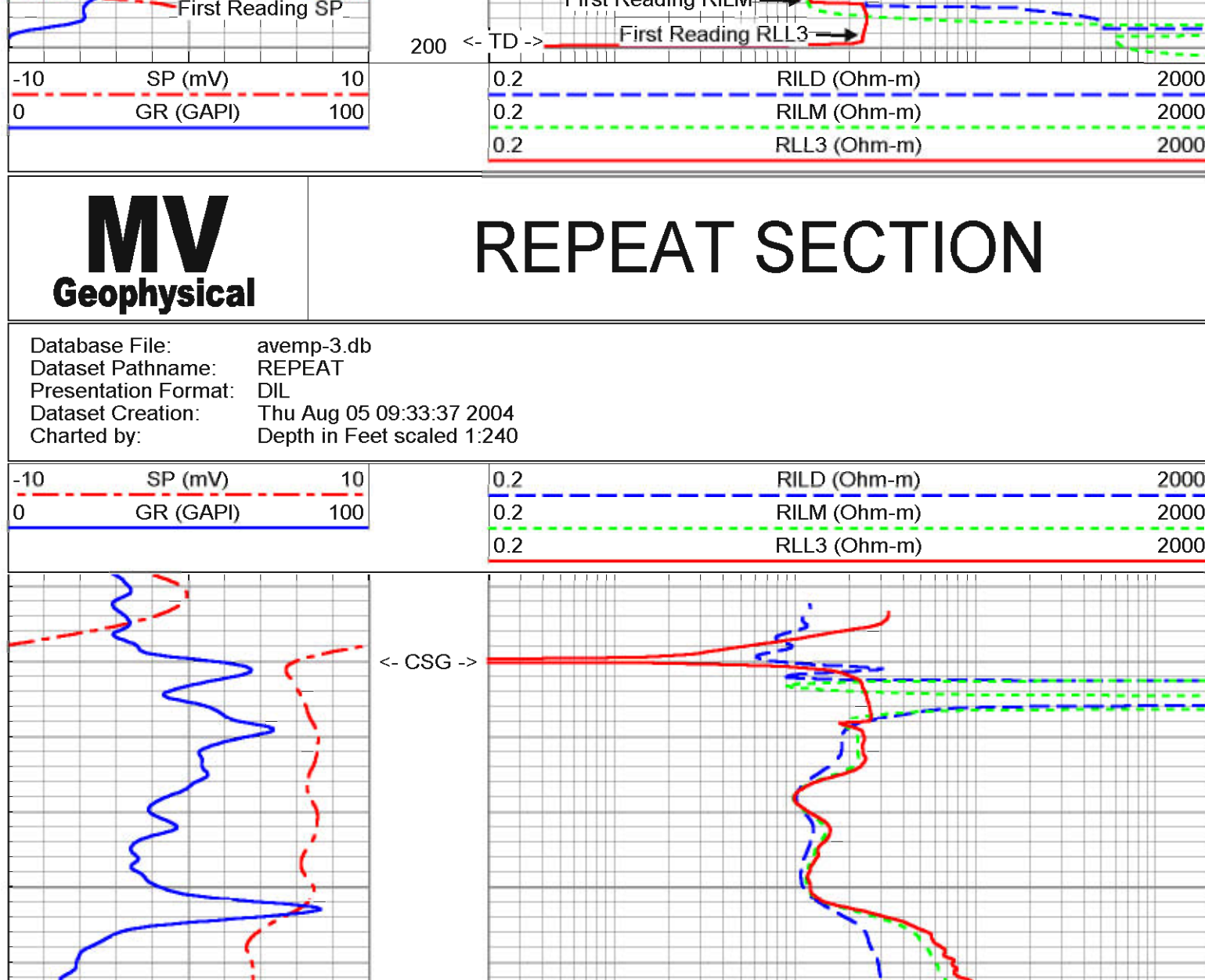
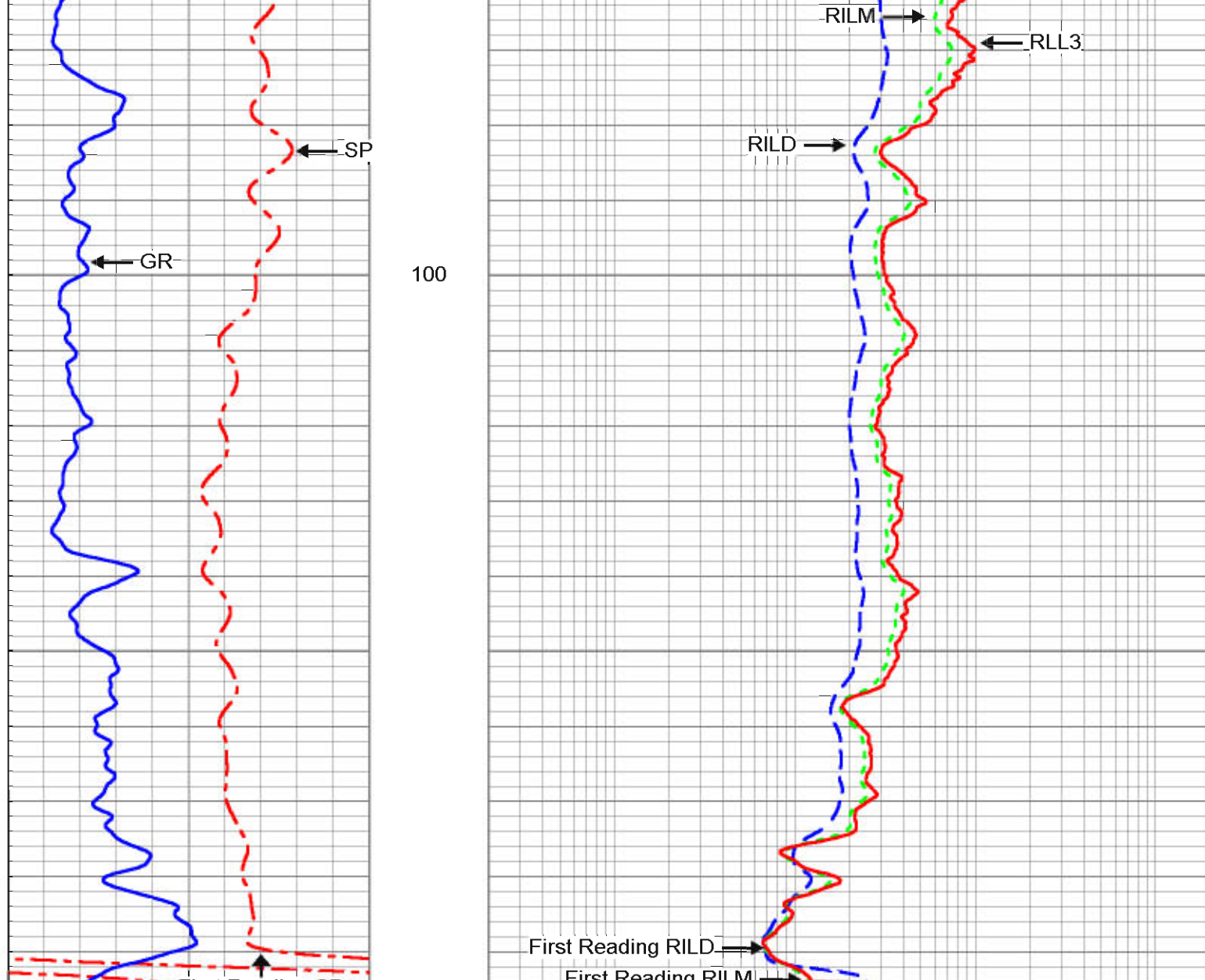
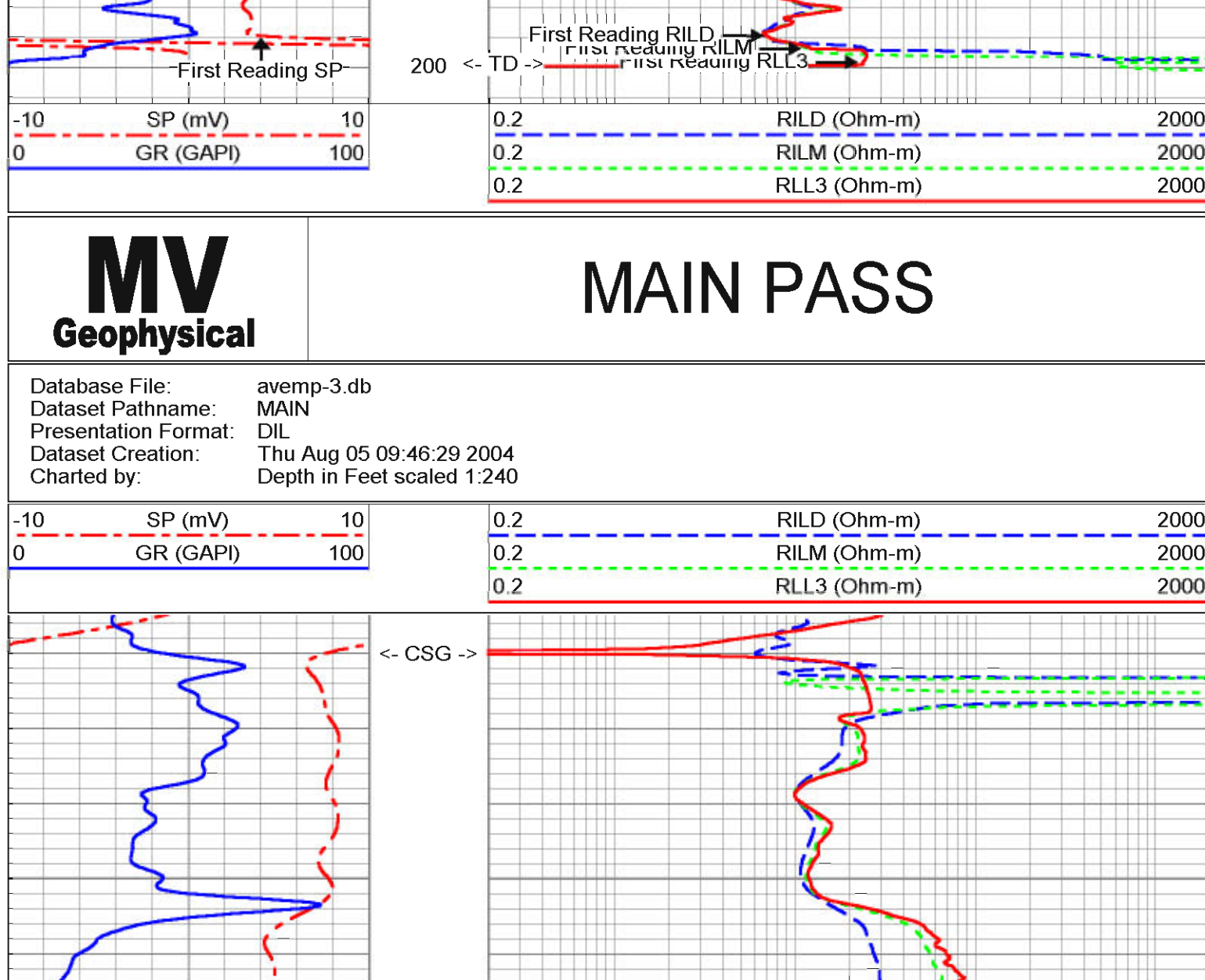
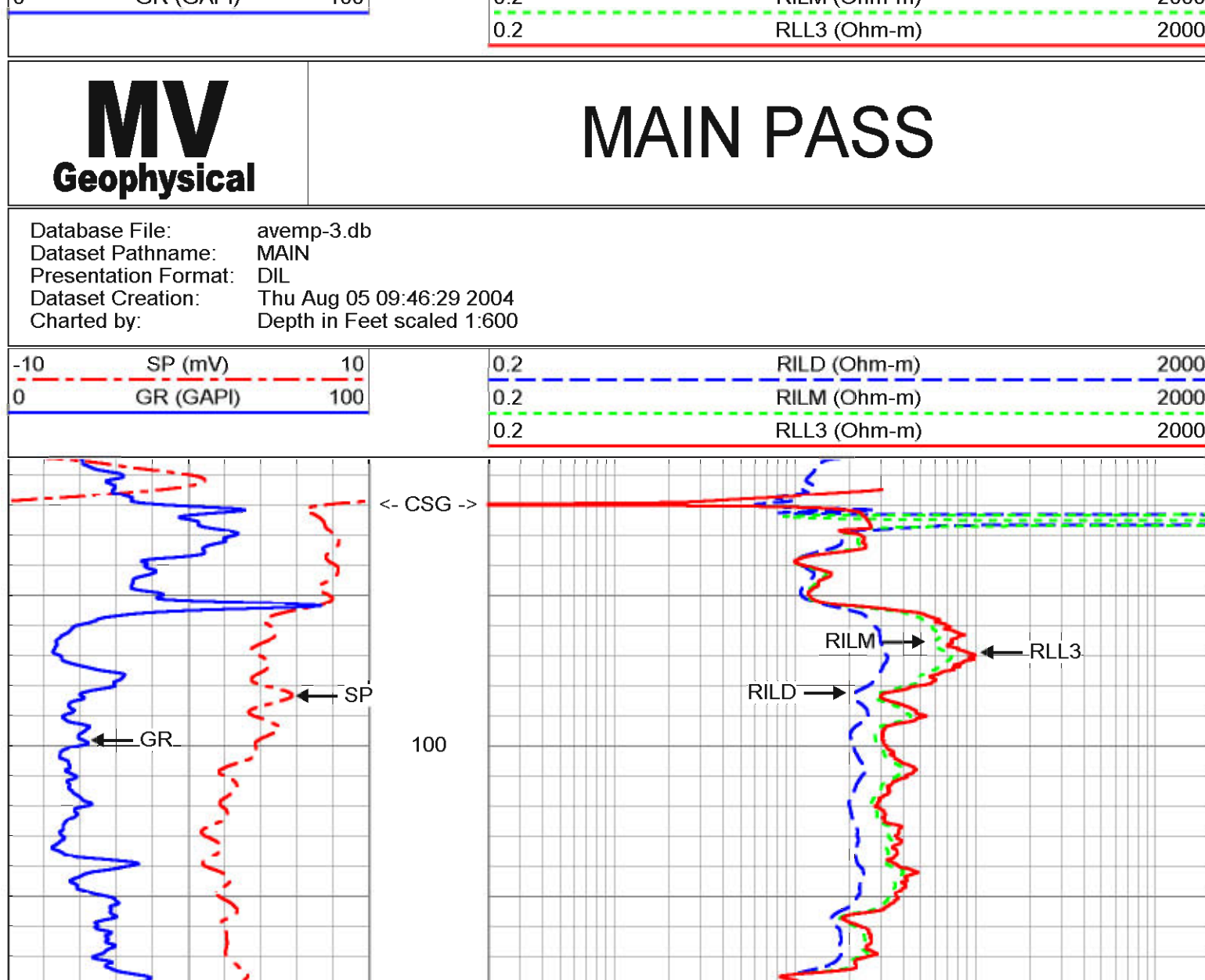
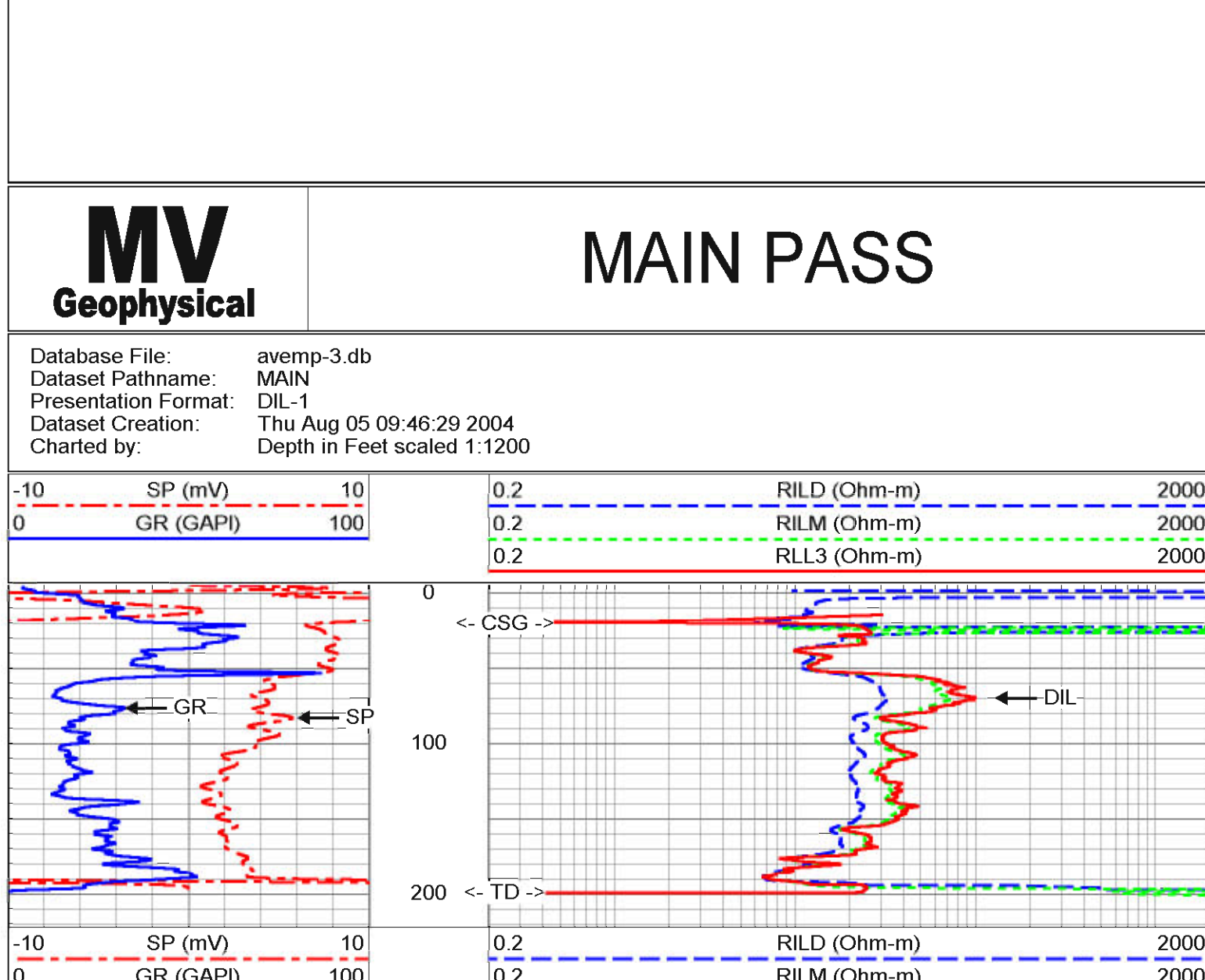
Well P-3

Company	Diversified Drilling Corp.	Well	Ave Maria P-3
Field	Ave Maria University	County	Collier
State/Prv	Florida	Location	Ave Maria WWTP & WTP CH2M Hill, Inc.
Company	Diversified Drilling Corporation	Well	Ave Maria P-3
Field	Ave Maria University	County	Collier
State/Prv	Florida	Other Services	XY/GR
Permanent Datum	G.L.	Elevation	
Log Measured From	G.L.	K/B	
Drilling Measured From	G.L.	D.F.	
Date	5-AUG-2004	Run Number	ONE
Depth Driller	200'	Depth Logger	200'
Bottom Logged Interval	198'	Top Log Interval	207'
Open Hole Size	7.875"	MUD	NA
Type Fluid	NA	Max. Recorded Temp.	NA
Density / Viscosity	NA	Equipment	NA
Estimated Cement Top	NA	Time Used on Bottom	09:00:05/04
Estimated Cement Bottom	NA	Equipment Number	10:00:05/04
Location	AV/SS-1	FI Meters	NA
Recorded By	C. Miller	Witnessed By	C. Miller
Run Number	ONE	Bit	7.875"
From	200'	To	200'
Size	20"	Weight	200'
Wt/Gr	0.313 Wt	Top SURFACE	
Bottom	20"	Bottom	
Job No.:	2004115	P.O. #:	
FIELD PRINT			

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Comments

Rm=9.871 ohm-m @ 81.1 degF



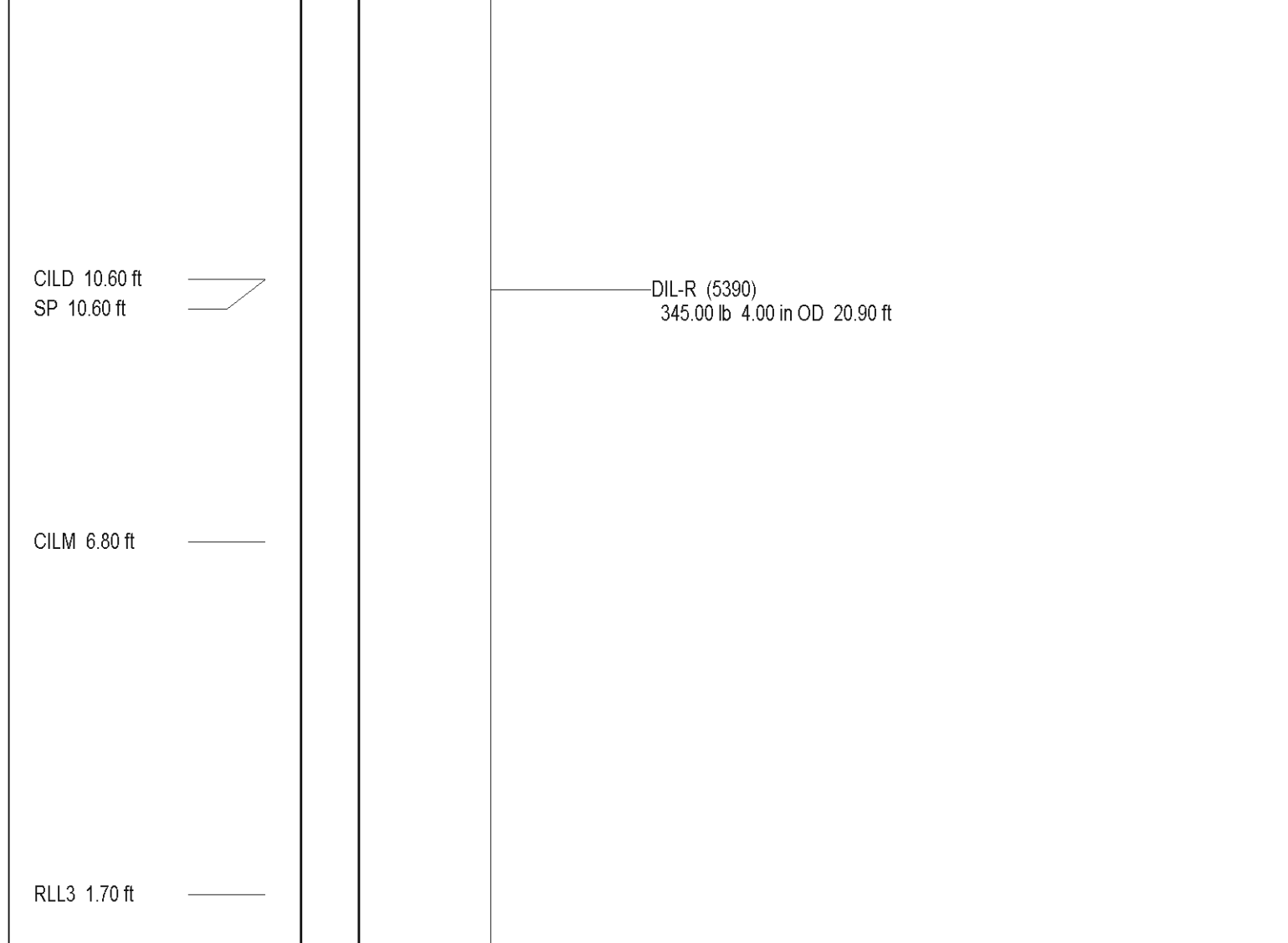
Dual Induction Calibration Report

Serial-Model:	5390-R
Surface Cal Performed:	Mon Feb 24 16:52:46 2003
Downhole Cal Performed:	Thu Aug 05 09:52:13 2004
After Survey Verification Performed:	Thu Aug 05 10:19:45 2004

Surface Calibration		Readings		References		Results		
Loop:	Air	Loop		Air	Loop	m	b	
Deep	0.041	0.637	V	0.000	400.000	mmho-m	670.900	-27.223
Medium	-0.006	0.700	V	0.000	464.000	mmho-m	656.366	4.251
Internal:	Zero	Cal		Zero	Cal	m	b	
Deep	0.011	0.647	V	0.000	400.000	mmho-m	628.552	-6.783
Medium	-0.011	0.749	V	0.000	464.000	mmho-m	610.612	6.720

Downhole Calibration		Readings		References		Results		
Internal:	Zero	Cal		Zero	Cal	m	b	
Deep	-51.497	427.821	mmho-m	-19.983	406.966	mmho-m	0.891	25.888
Medium	7.532	487.668	mmho-m	-2.972	495.796	mmho-m	1.039	-10.796
Shallow	2.489	0.022	V	494.500	2.000	Ohm-m	199.596	-2.347

After Survey Verification		Readings		Targets		Results		
Internal:	Zero	Cal		Zero	Cal	m'	b'	
Deep	-48.336	423.944	mmho-m	-51.497	427.821	mmho-m	0.891	25.888
Medium	8.361	487.147	mmho-m	-2.972	487.668	mmho-m	1.039	-10.796
Shallow	494.870	1.798	Ohm-m	494.500	2.000	Ohm-m	0.999	0.204



Dataset: run1/pass5
Total Length: 20.90 ft
Total Weight: 345.00 lb
O.D.: 4.00 in

Company: Diversified Drilling Corp.
 Well: Ave Maria P-3
 Field: Ave Maria University
 County: Collier
 State/Prv: Florida
 Location: Ave Maria WWP & WTP
 CH2M Hill, Inc.

Company: Diversified Drilling Corporation
 Well: Ave Maria P-3
 Field: Ave Maria University
 County: Collier
 State/Prv: Florida

Location: Ave Maria WWP & WTP
 CH2M Hill, Inc.

Other Services:
 XY/GRI
 FRT/FLOW
 VIDEO

Permanent Datum: G.L.
 Log Measured From: G.L.
 Drilling Measured From: G.L.

Date: 18-AUG-2004

Run Number: TMO
 Depth Driller: 78'
 Bottom Logged Interval: 77'
 Top Log Interval: 65'
 Top Log Interval: 11.25'
 Type Fluid Size: WATER
 Type Fluid: NANA
 Density / Viscosity: na
 Max. Recorded Temp.: na

Estimated Cement Top: 10:00 8/18/04
 Time Well Ready: 10:45 8/18/04
 Time Logger on Bottom: 10:45 8/18/04
 Equipment Number: AWGS-1
 Location: Ft. Myers
 Recorded By: S. Miller
 Witnessed By: C. Wery (CH2M)

Run Number: 78
 Run ONE: 78.25'
 TMO: 11.25'

Bottomhole Record:
 From: 20'
 To: 20'
 Size: 20'
 Weight: 78'

Logging Record:
 From: 20'
 To: 20'
 Size: 20'
 Weight: 78'

Casing Record:
 From: 20'
 To: 20'
 Size: 20'
 Weight: 78'

Prod. String: 12 PVC
 Production String: 12 PVC

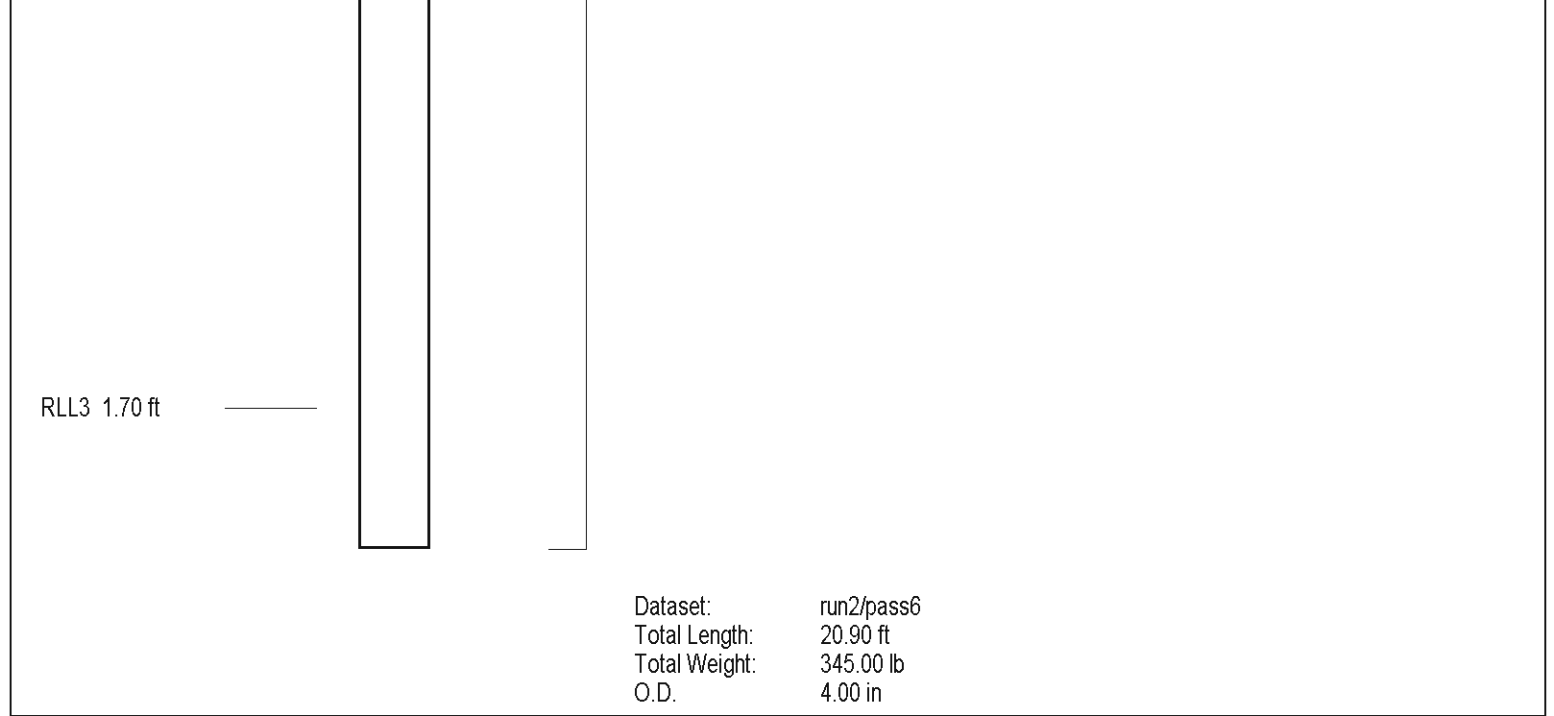
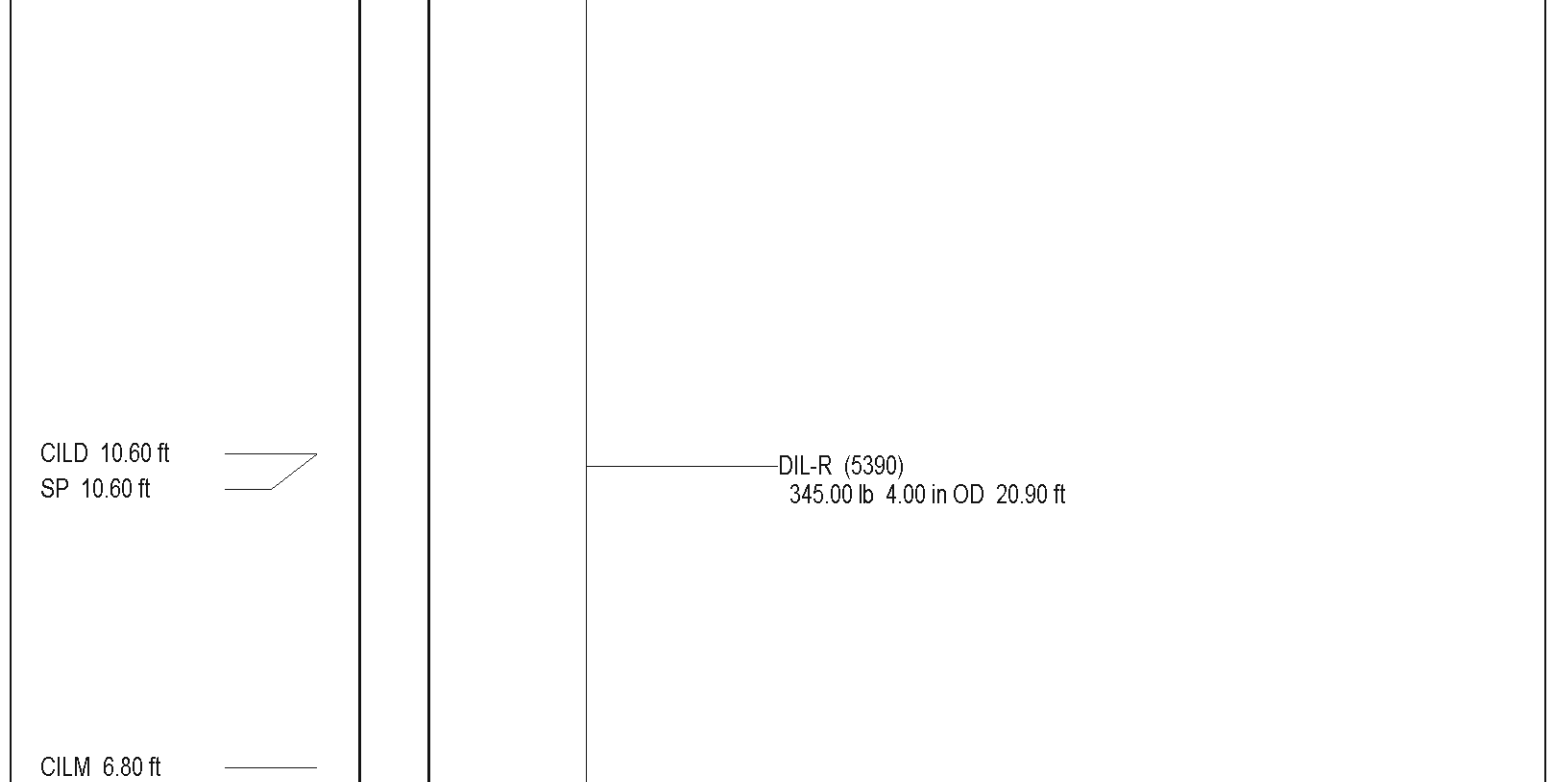
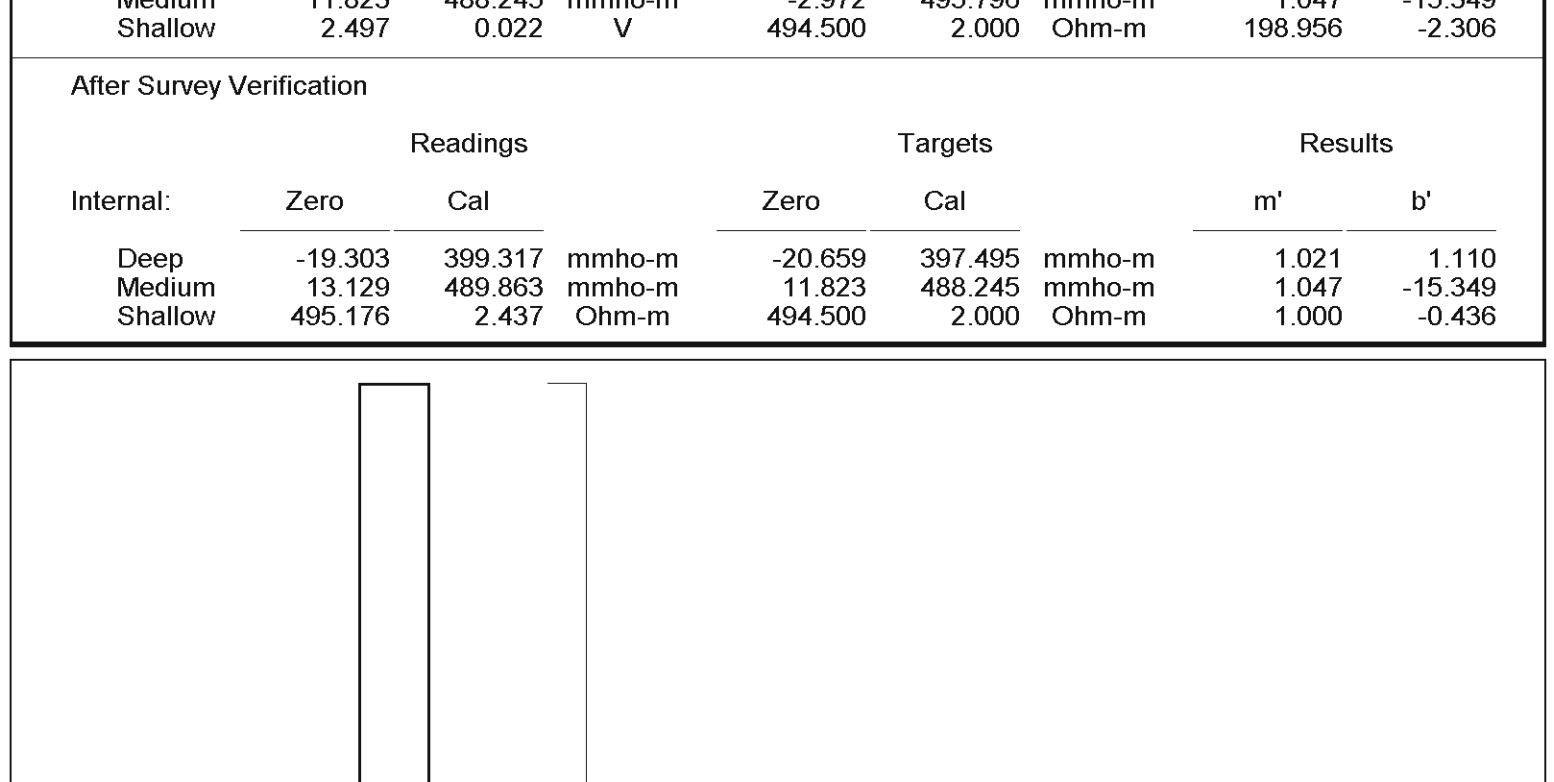
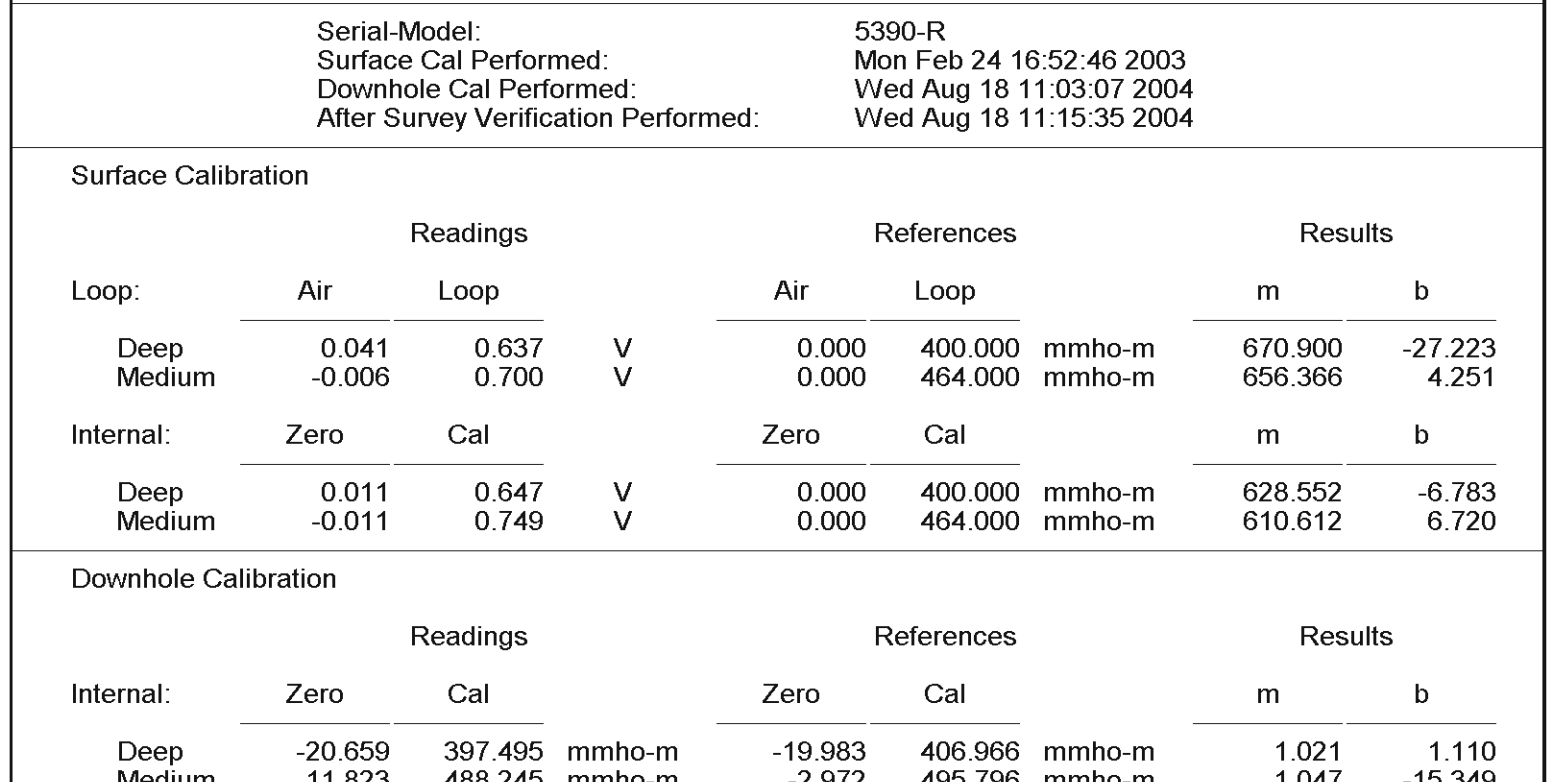
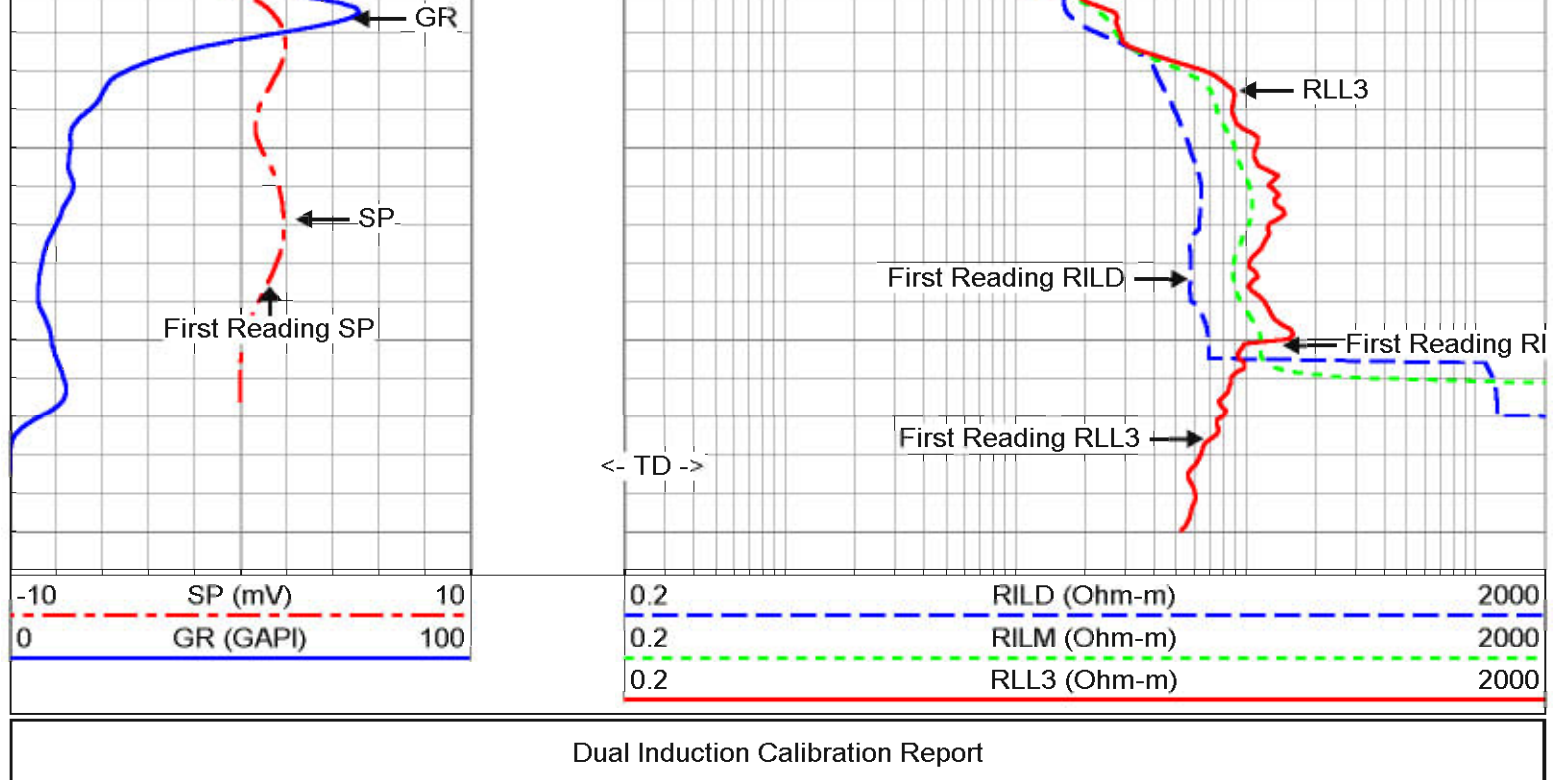
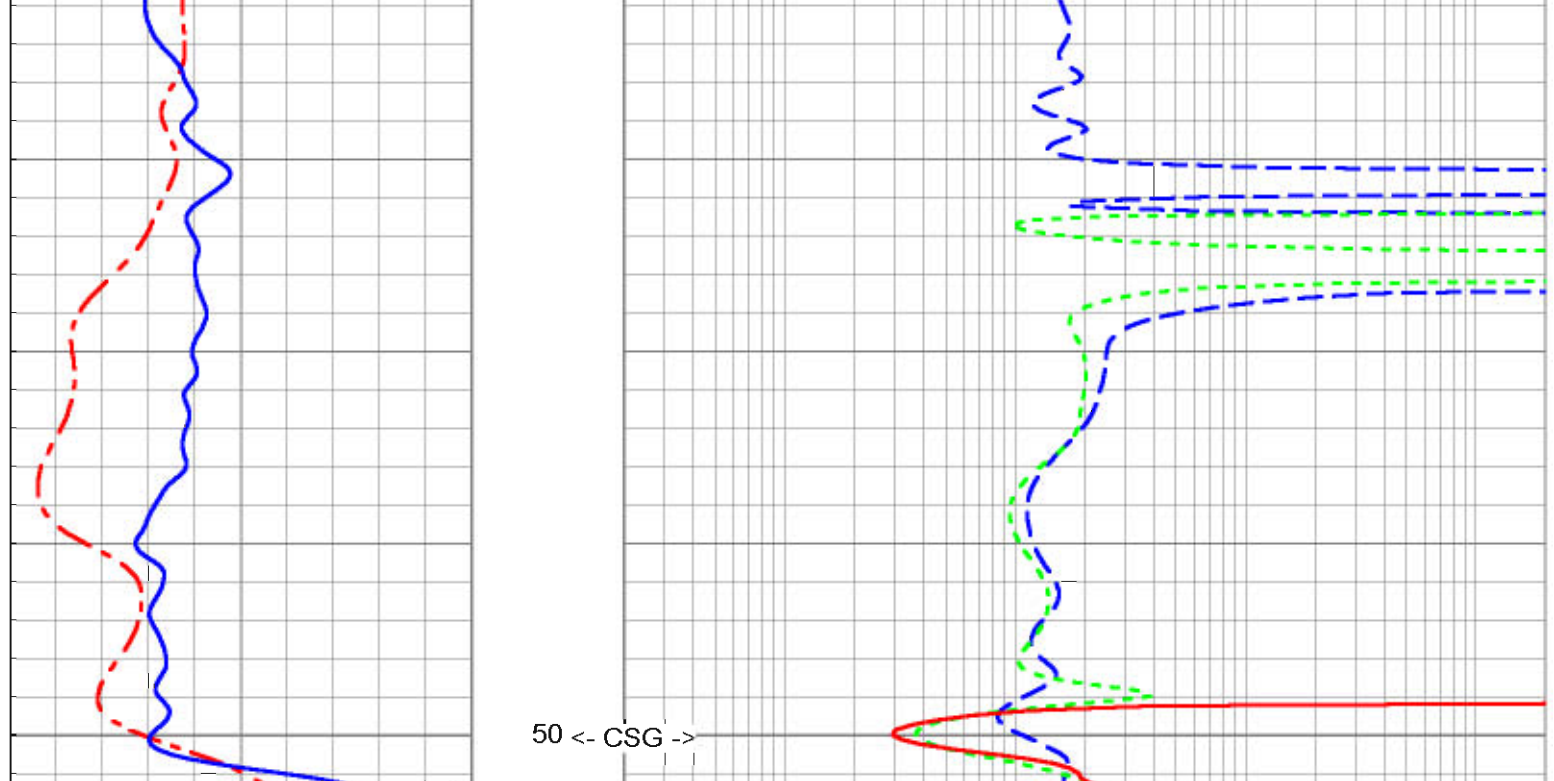
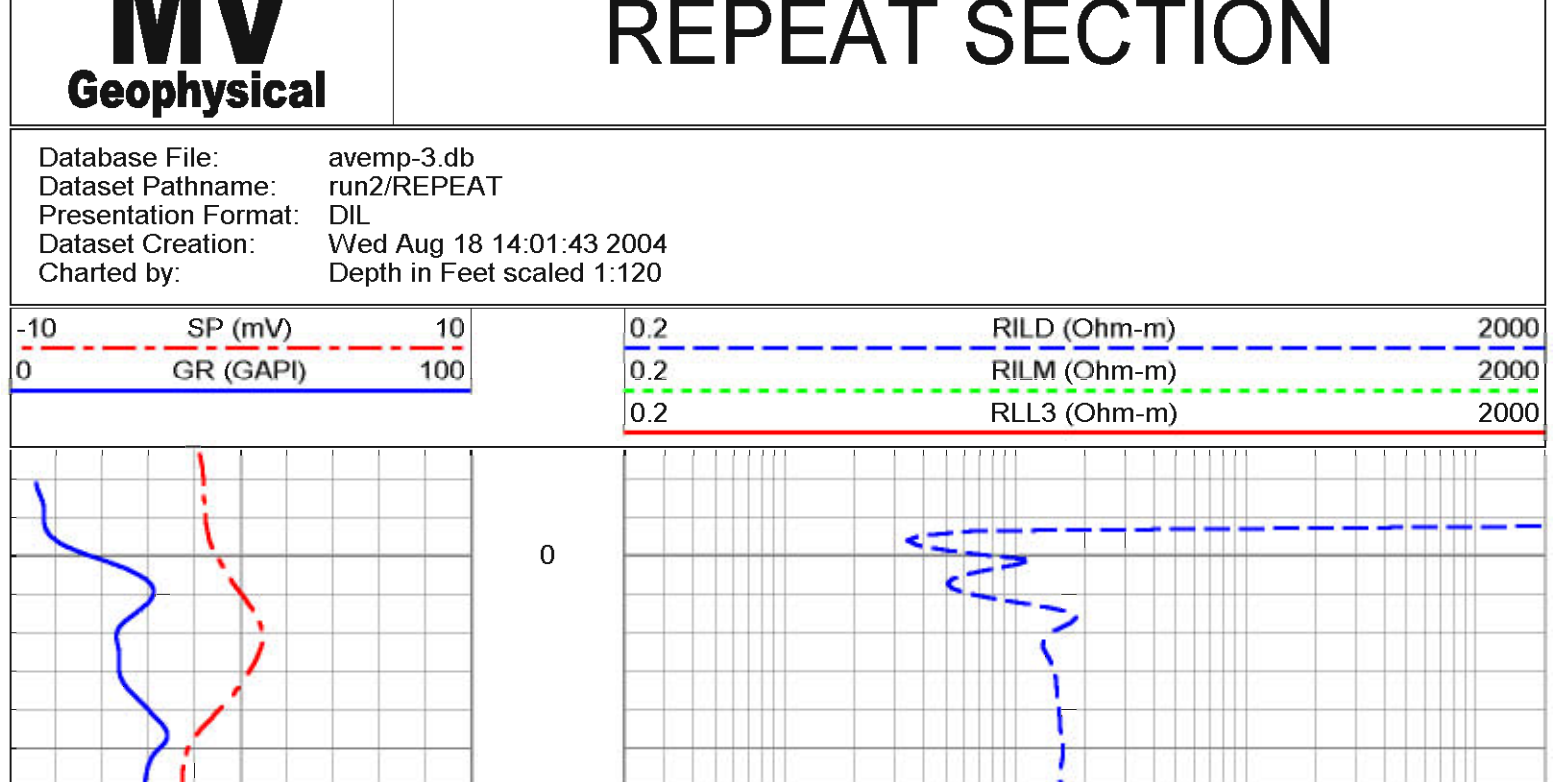
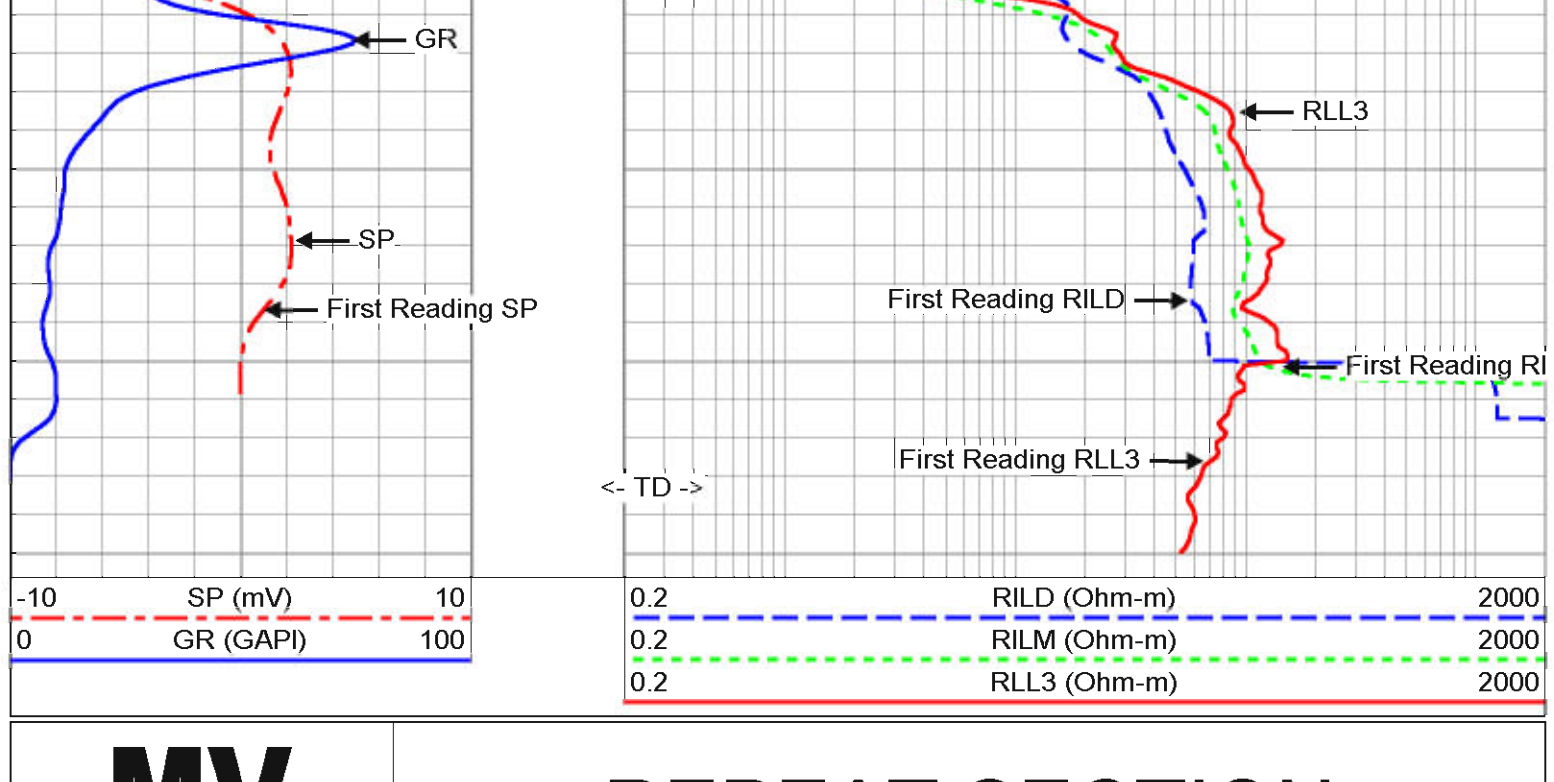
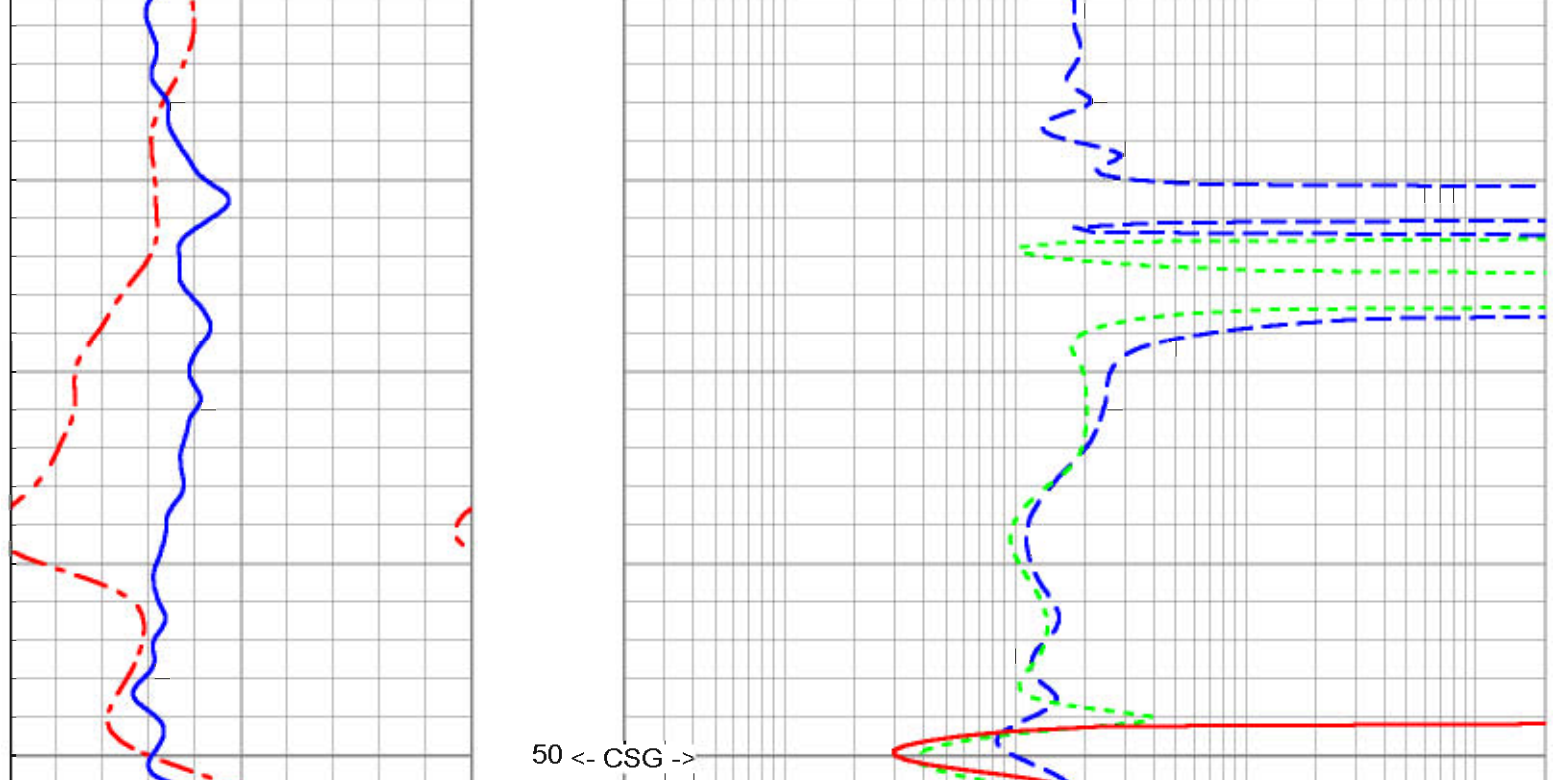
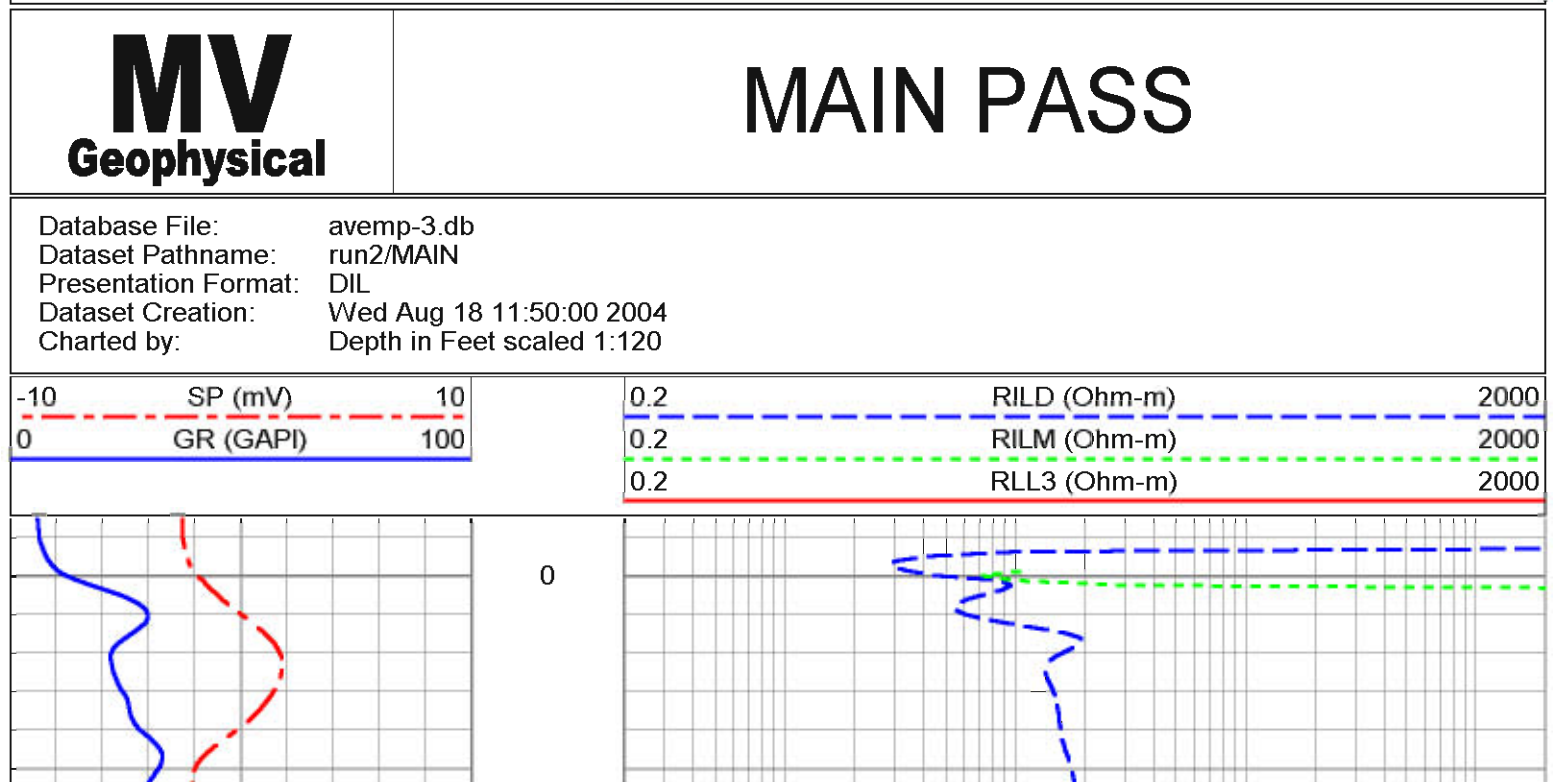
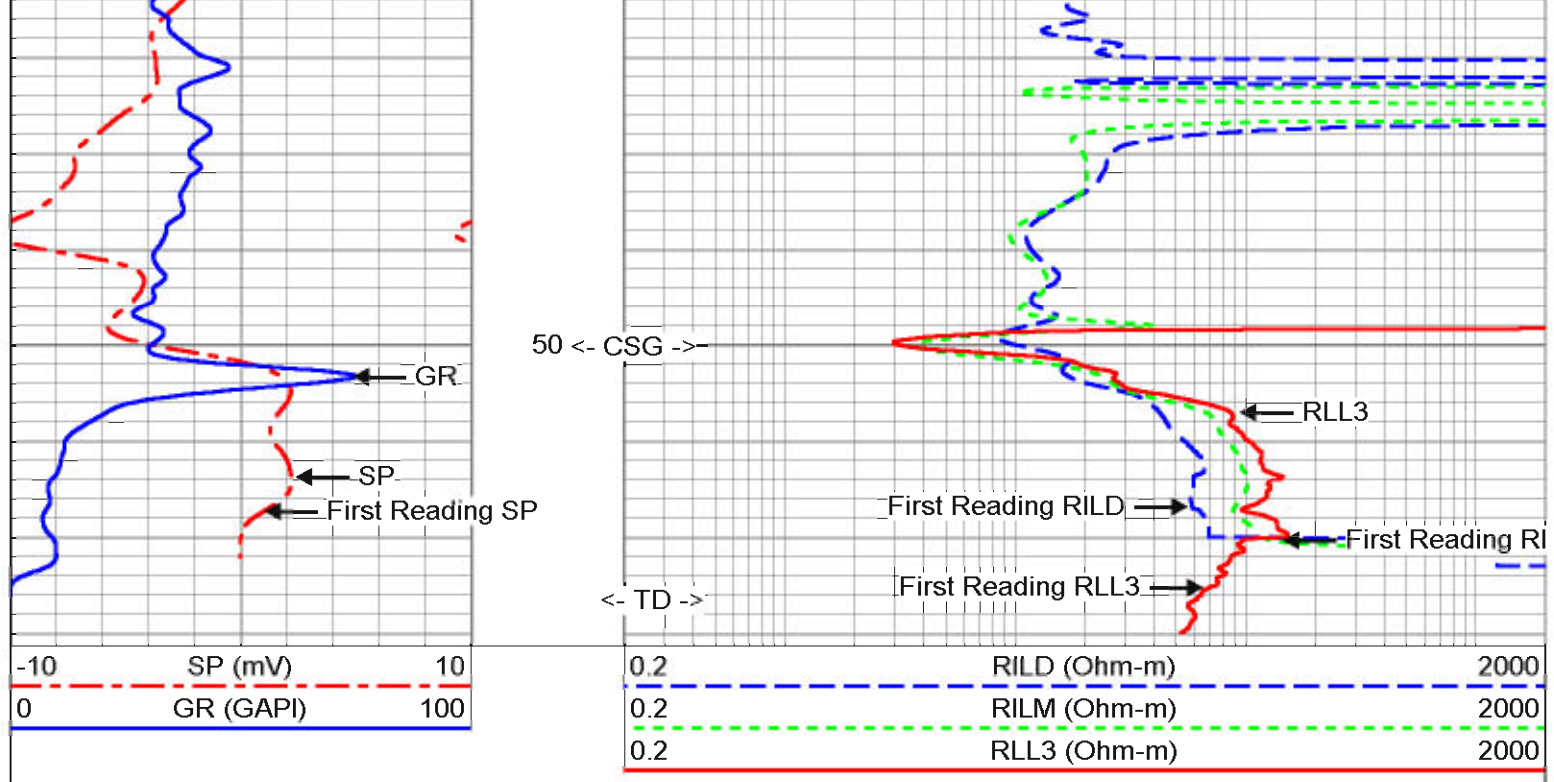
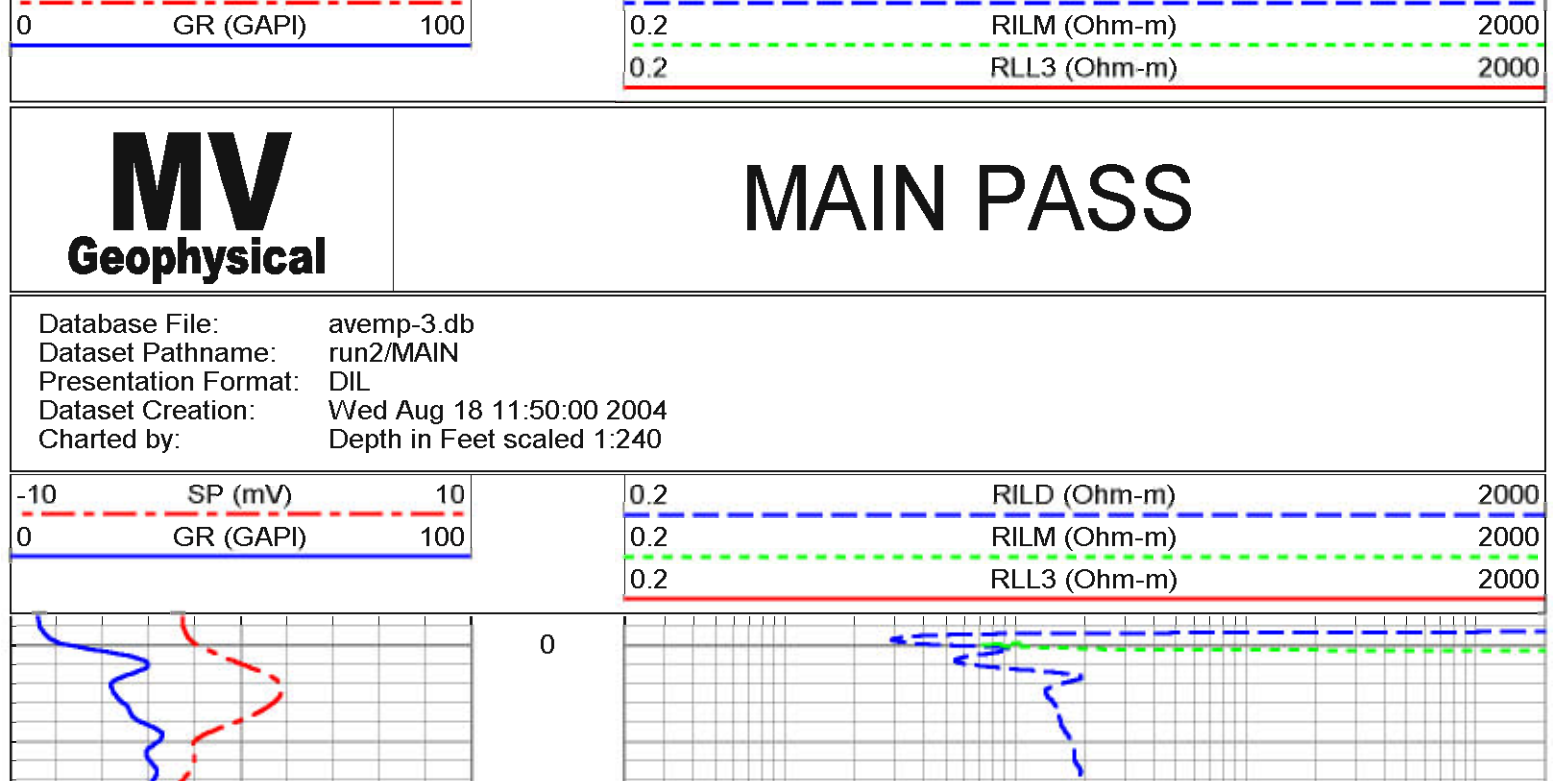
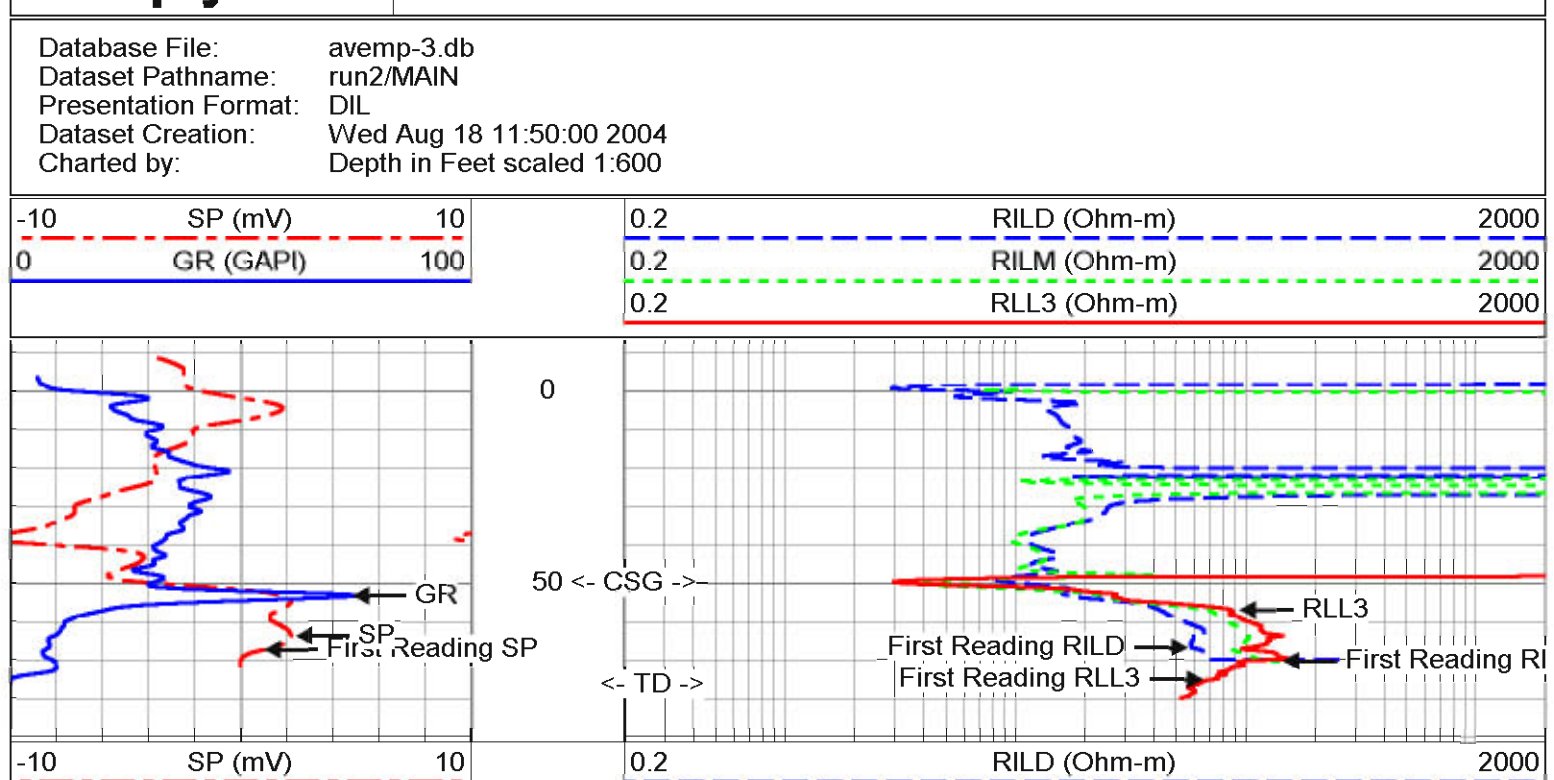
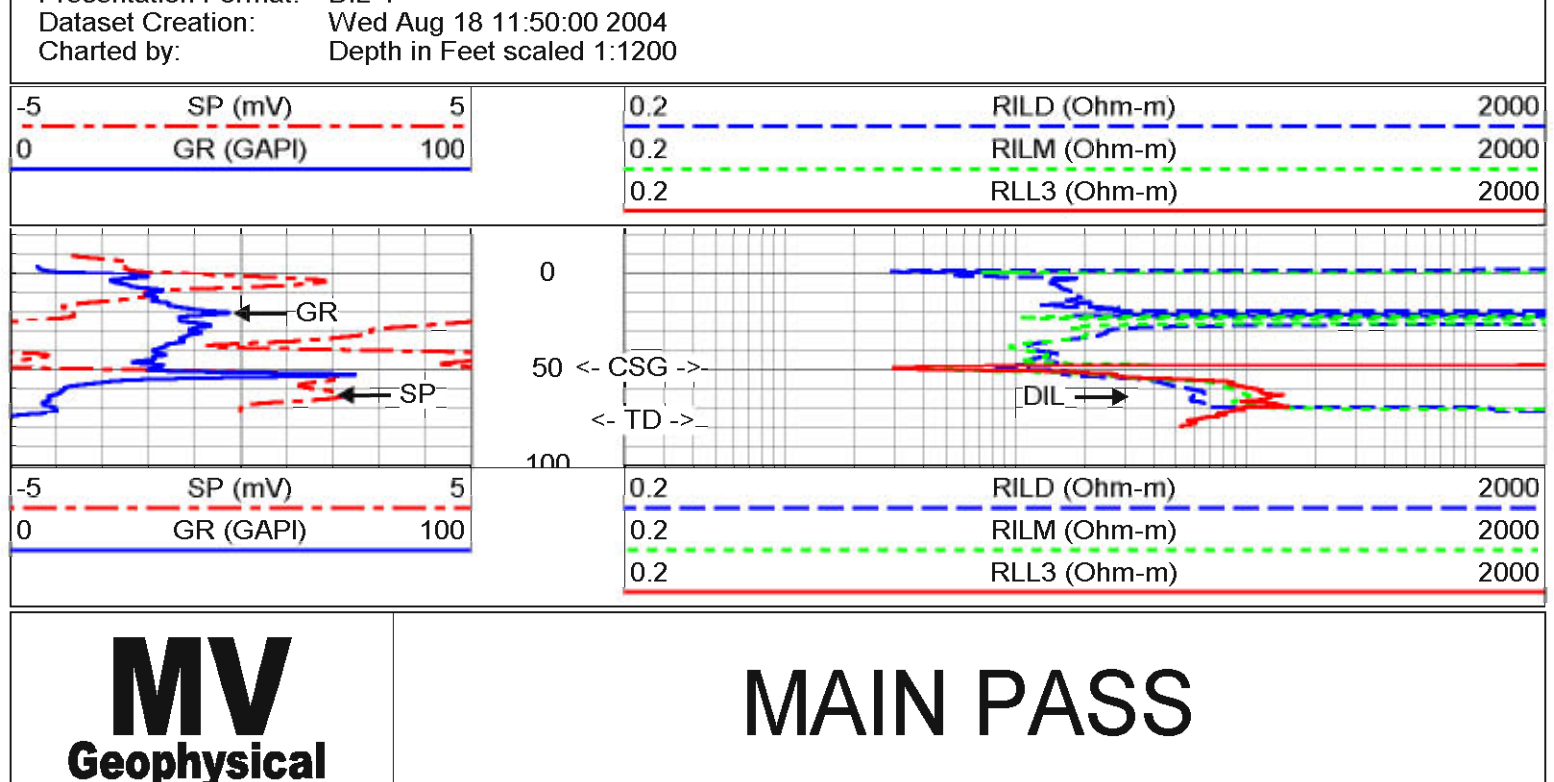
Job No.: 2004119

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Comments

Rw=14.041 ohm-m @ 78.1 degF



Dual Induction Calibration Report

Serial-Model: 5390-R
 Surface Cal Performed: Mon Feb 24 16:52:46 2003
 Downhole Cal Performed: Wed Aug 18 11:03:07 2004
 After Survey Verification Performed: Wed Aug 18 11:15:35 2004

Surface Calibration				References				Results	
Loop:	Readings		V	Air	Loop	mmho-m	mmho-m	m	b
	Air	Loop							
Deep	0.041	0.637	V	0.000	400.000	mmho-m	670.900	-27.223	
Medium	-0.006	0.700	V	0.000	464.000	mmho-m	656.366	4.251	
Internal:	Zero	Cal		Zero	Cal		m	b	
Deep	0.011	0.647	V	0.000	400.000	mmho-m	628.552	-6.783	
Medium	-0.011	0.749	V	0.000	464.000	mmho-m	610.612	6.720	

Downhole Calibration				References				Results	
Internal:	Readings		V	Zero	Cal	mmho-m	mmho-m	m	b
	Zero	Cal							
Deep	-20.659	397.495	mmho-m	-19.983	406.966	mmho-m	1.021	1.110	
Medium	11.823	488.245	mmho-m	-2.972	495.796	mmho-m	1.047	-15.349	
Shallow	2.497	0.022	V	494.500	2.000	Ohm-m	198.956	-2.306	

After Survey Verification				Targets				Results	
Internal:	Readings		V	Zero	Cal	mmho-m	mmho-m	m'	b'
	Zero	Cal							
Deep	-19.303	399.317	mmho-m	-20.659	397.495	mmho-m	1.021	1.110	
Medium	13.129	489.863	mmho-m	11.823	488.245	mmho-m	1.047	-15.349	
Shallow	495.176	2.437	Ohm-m	494.500	2.000	Ohm-m	1.000	-0.436	

Dataset: run2/pass6
 Total Length: 20.90 ft
 Total Weight: 345.00 lb
 O.D.: 4.00 in



FLOWMETER LOG

Company	Diversified Drilling Corp.	Company	Diversified Drilling Corporation
Well	Ave Maria P-3	Well	Ave Maria P-3
Field	Ave Maria University	Field	Ave Maria University
County	Collier	County	Collier
State/Prv	Florida	State/Prv	Florida
Location	Ave Maria WWTP & WTP CH2M Hill, Inc.	Other Services	X/Y/G/R D/L/F/C/T VIDEO
Permanent Datum	G.L.	Elevation	
Log Measured From	G.L.	K/B	
Drilling Measured From	G.L.	D/F	
Date	18-AUG-2004	G.L.	
Run Number	TWO		
Depth Driller	78		
Depth Logger	77		
Bottom Logged Interval	30'		
Top Log Interval	11.25'		
Open Hole Size	WATER		
Type Fluid	NA/NA		
Density / Viscosity	NA		
Max. Recorded Temp.	NA		
Estimated Cement Top	10:00 8/19/04		
Time Well Ready	12:00 8/19/04		
Time Logger on Bottom	MWGS-1		
Equipment Number	FT Myers		
Location	S. Miller		
Recorded By	C. Miller		
Witnessed By	C. Miller (ODO)		
Run Number	ONE	Bit	From
ONE	7.875"	20'	20'
TWO	11.25"	50'	78'
Casing Record	Size	Wgt/Ft	Top
Surface String	20"	0.375" WT	SURFACE
Prod. String	12" PVC	12" ID	SURFACE
Production String			50'
Liner	2004119	P.O. #	JOB No.:

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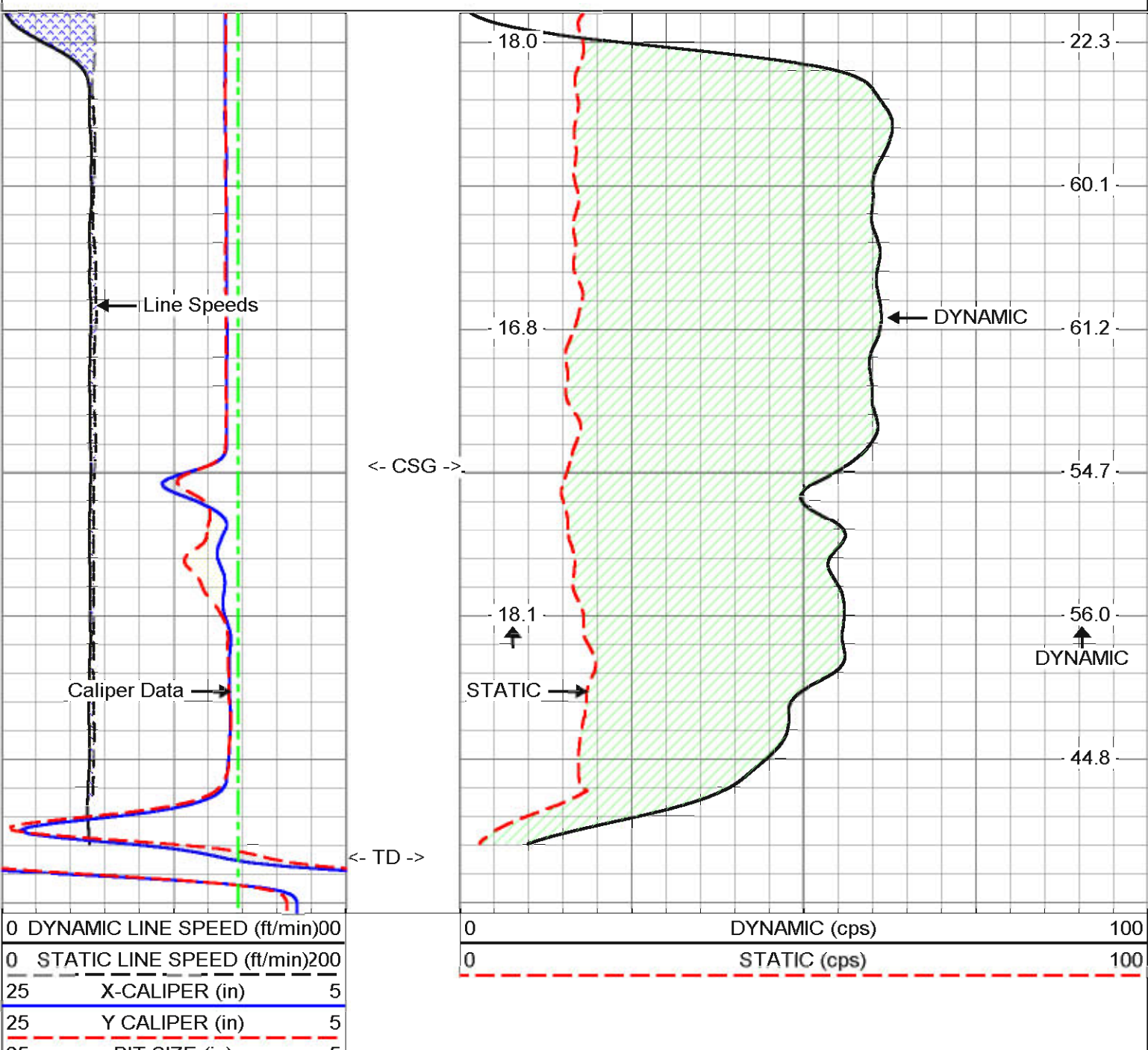
Comments

STATIC and DYNAMIC down passes were made at 50 fpm.
3 Stations were performed.
Q ~-1,050 gpm

MV Geophysical S/D DOWN @ 50 fpm

Database File: avemp-3.db
Dataset Pathname: run2/SD50
Presentation Format: QGG2
Dataset Creation: Wed Aug 18 14:59:32 2004
Charted by: Depth in Feet scaled 1:120

0 DYNAMIC LINE SPEED (ft/min)	00	0	DYNAMIC (cps)	100
0 STATIC LINE SPEED (ft/min)	200	0	STATIC (cps)	100
25 X-CALIPER (in)	5			
25 Y CALIPER (in)	5			
25 BIT SIZE (in)	5			



0 DYNAMIC LINE SPEED (ft/min)	00	0	DYNAMIC (cps)	100
0 STATIC LINE SPEED (ft/min)	200	0	STATIC (cps)	100
25 X-CALIPER (in)	5			
25 Y CALIPER (in)	5			
25 BIT SIZE (in)	5			

MV Geophysical Station #3: 60'

Database File: avemp-3.db
Dataset Pathname: run2/pass23
Presentation Format: FLOW
Dataset Creation: Wed Aug 18 13:06:25 2004 by Log_VER_5.3
Charted by: Depth in Feet scaled 1:240

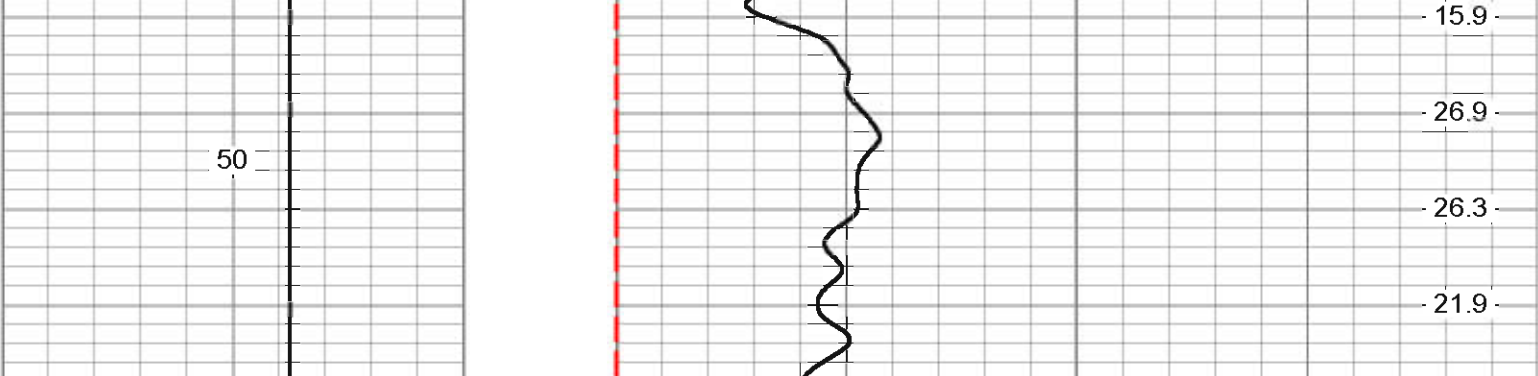
-200 LINE SPEED (ft/min)	200	0	CCW Spin (cps)	100
		0	CW Spin (cps)	100



MV Geophysical Station #2: 70'

Database File: avemp-3.db
Dataset Pathname: run2/pass22
Presentation Format: FLOW
Dataset Creation: Wed Aug 18 13:04:34 2004 by Log_VER_5.3
Charted by: Depth in Feet scaled 1:240

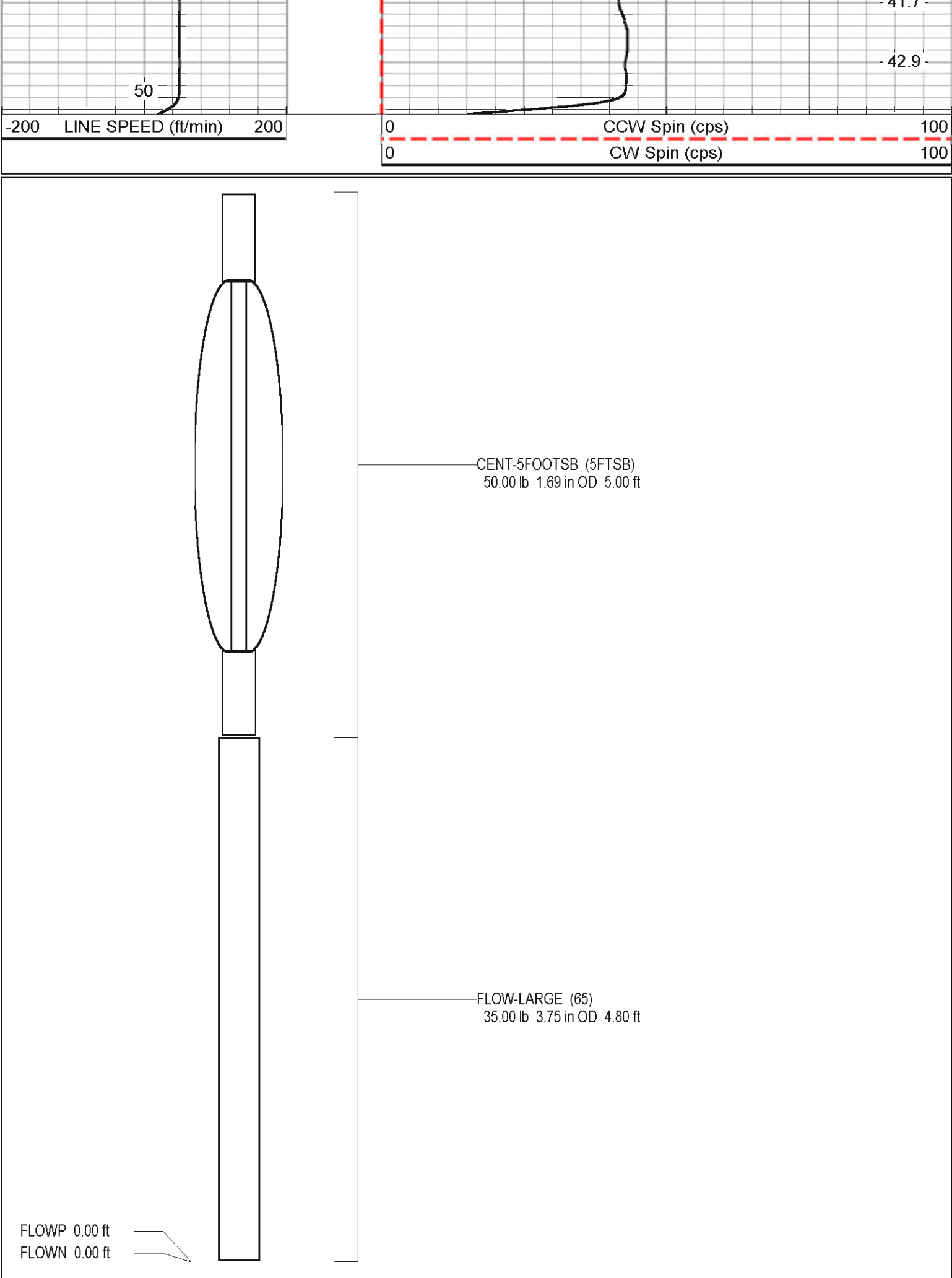
-200 LINE SPEED (ft/min)	200	0	CCW Spin (cps)	100
		0	CW Spin (cps)	100



MV Geophysical Station #1: 30'

Database File: avemp-3.db
Dataset Pathname: run2/pass17
Presentation Format: FLOW
Dataset Creation: Wed Aug 18 12:58:12 2004 by Log_VER_5.3
Charted by: Depth in Feet scaled 1:240

-200 LINE SPEED (ft/min)	200	0	CCW Spin (cps)	100
		0	CW Spin (cps)	100



Dataset: run2/pass23
Total Length: 9.80 ft
Total Weight: 85.00 lb
O.D.: 3.75 in

MV Geophysical

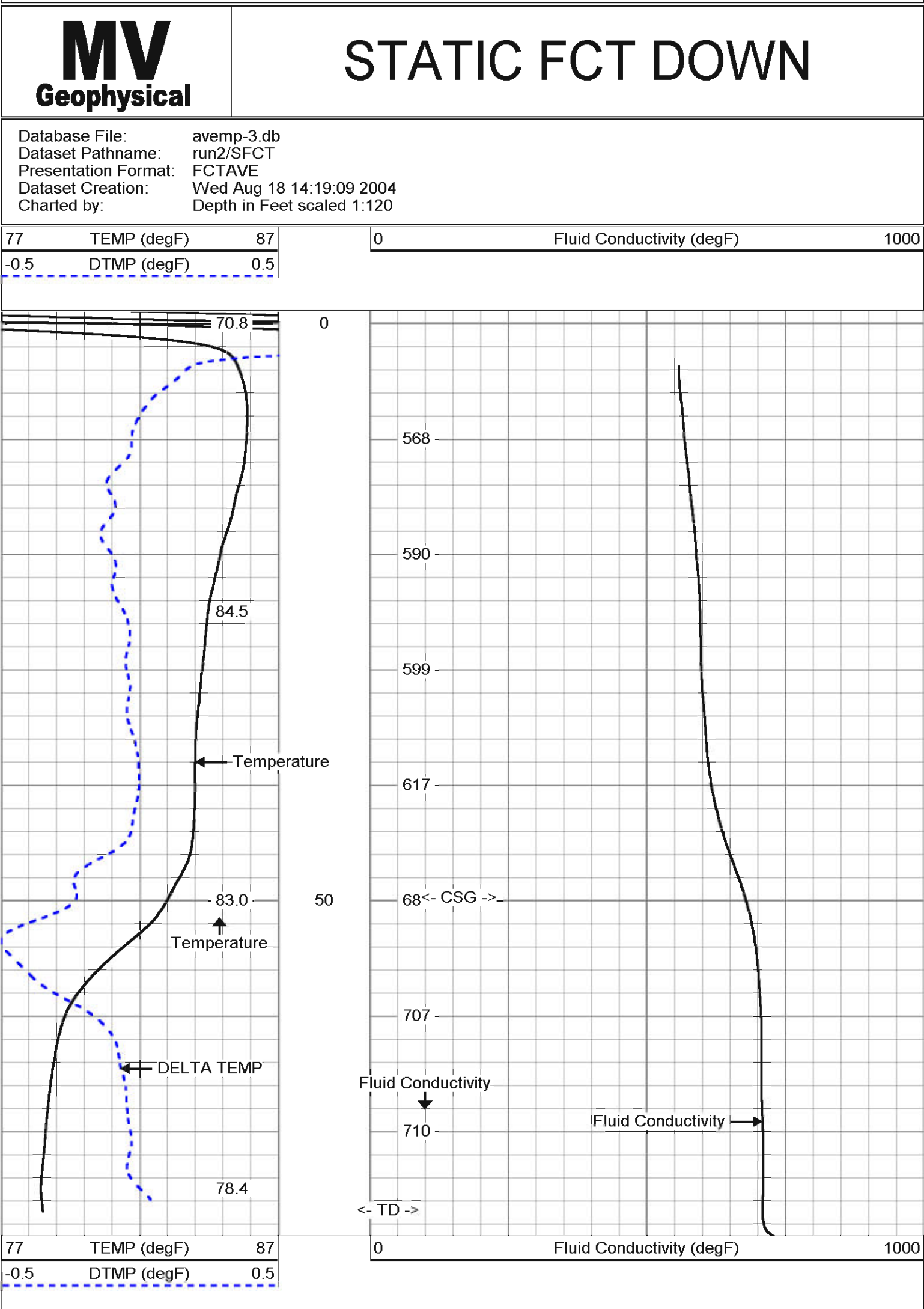
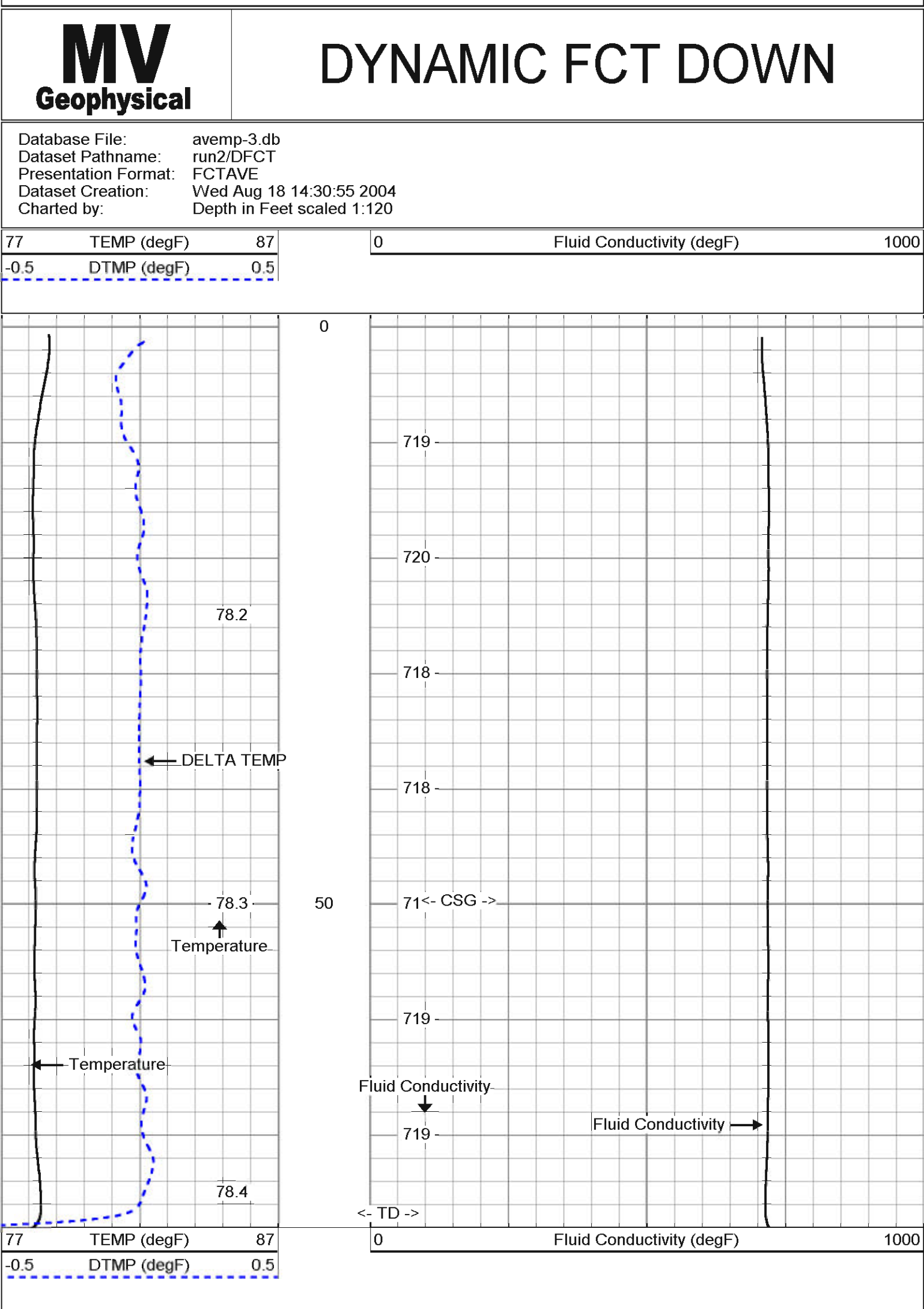
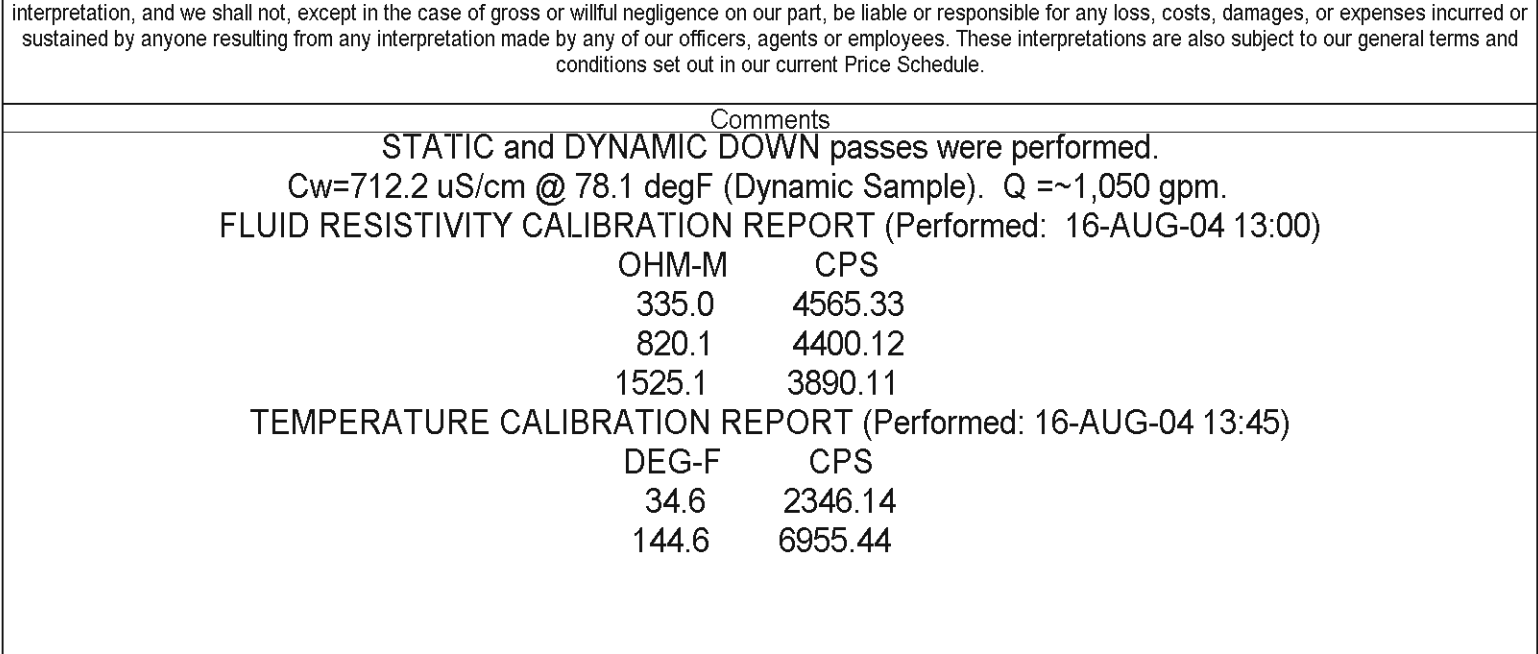
FLUID CONDUCTIVITY TEMPERATURE LOG

Company: Diversified Drilling Corporation
 Well: Ave Maria P-3
 Field: Ave Maria University
 County: Collier
 State/Prv: Florida

Location: Ave Maria WWTP & WTP
 CH2M Hill, Inc.
 Permanent Datum: G.L.
 Log Measured From: G.L.
 Drilling Measured From: G.L.
 Other Services: XY/GR, DIL, FLOW, VIDEO
 Elevation: K.B., D.F., G.L.

Date	18-AUG-2004
Run Number	TWO
Depth Driller	78
Depth Logger	77
Bottom Logged Interval	77
Top Log Interval	50'
Open Hole Size	11.28"
Type Fluid	WATER
Density / Viscosity	NA/NA
Max. Recorded Temp.	na
Estimated Cement Top	NA
Time Well Ready	10:00 8/18/04
Time Logger on Bottom	11:15 8/18/04
Equipment Number	IMVGS-1
Location	FL MYERS
Recorded By	S. Miller
Witnessed By	C. Miller (DDC)
Recorded By	C. Nevy (CH2M)
Recorded By	Ralph (DDC)
Run Number	ONE
Bit	200'
From	200'
To	200'
Size	200'
Weight	78'
From	78'
To	78'
Run Number	TWO
Bit	200'
From	200'
To	200'
Size	200'
Weight	78'
From	78'
To	78'
Casting Record	20"
Surface String	12" PVC
Prod. String	12" ID
Production String	12" ID
Liner	12" ID
Invoice No.	2004120
P.O. #	
Job No.	
	* FIELD PRINT *

Comments: STATIC and DYNAMIC DOWN passes were performed.
 Cw=712.2 uS/cm @ 78.1 degF (Dynamic Sample). Q =~1,050 gpm.
 FLUID RESISTIVITY CALIBRATION REPORT (Performed: 16-AUG-04 13:00)
 OHM-M CPS
 335.0 4565.33
 820.1 4400.12
 1525.1 3890.11
 TEMPERATURE CALIBRATION REPORT (Performed: 16-AUG-04 13:45)
 DEG-F CPS
 34.6 2346.14
 144.6 6955.44



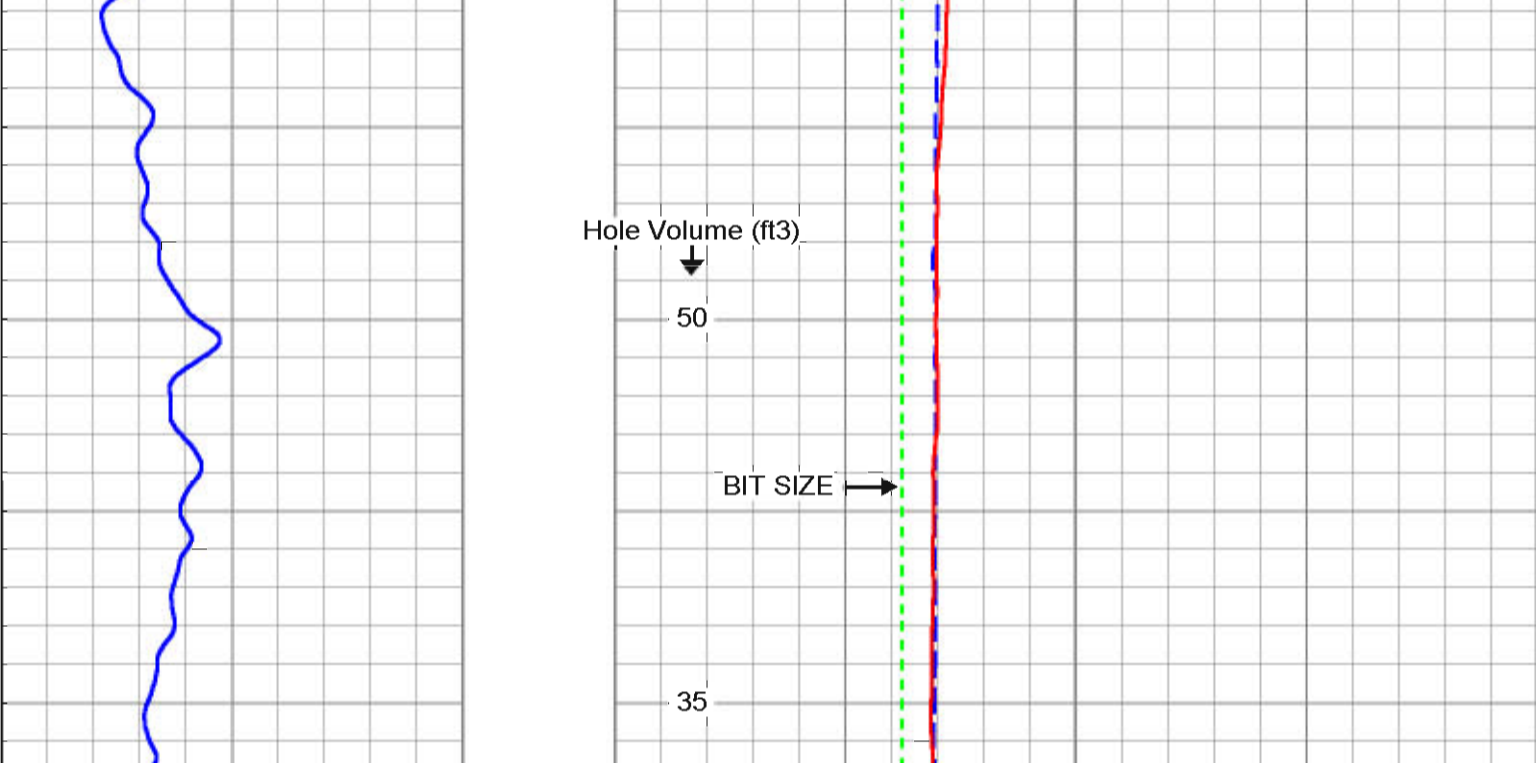
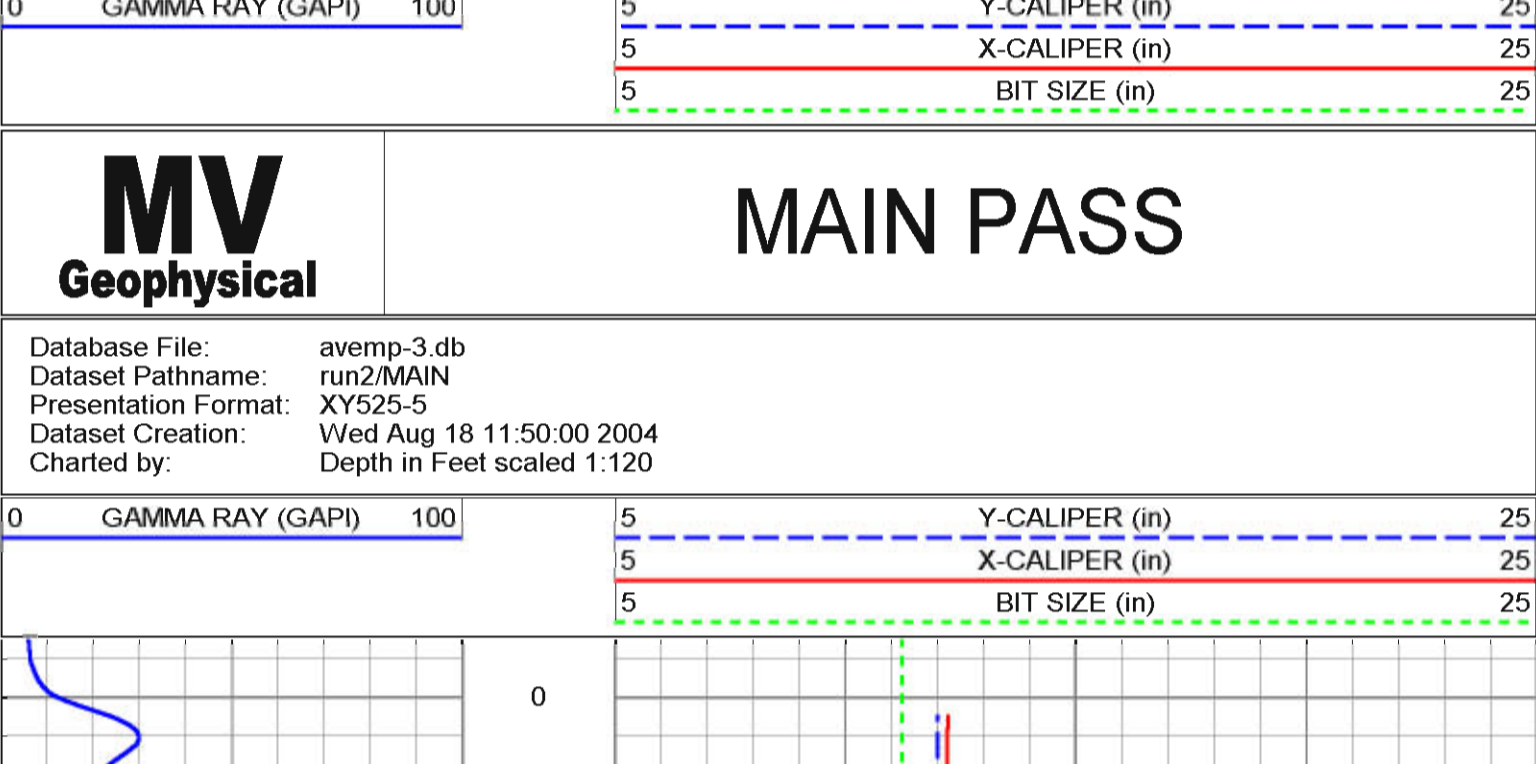
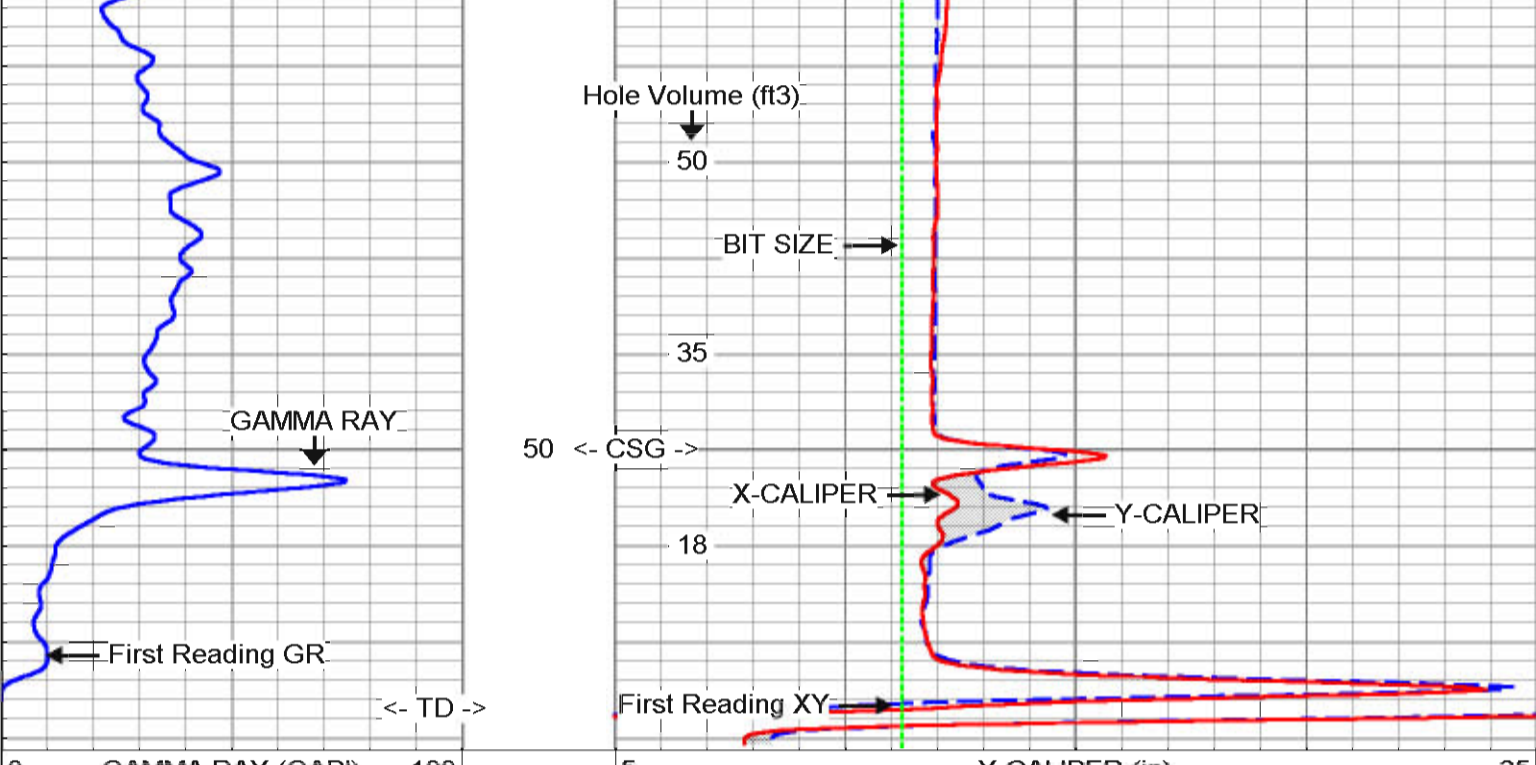
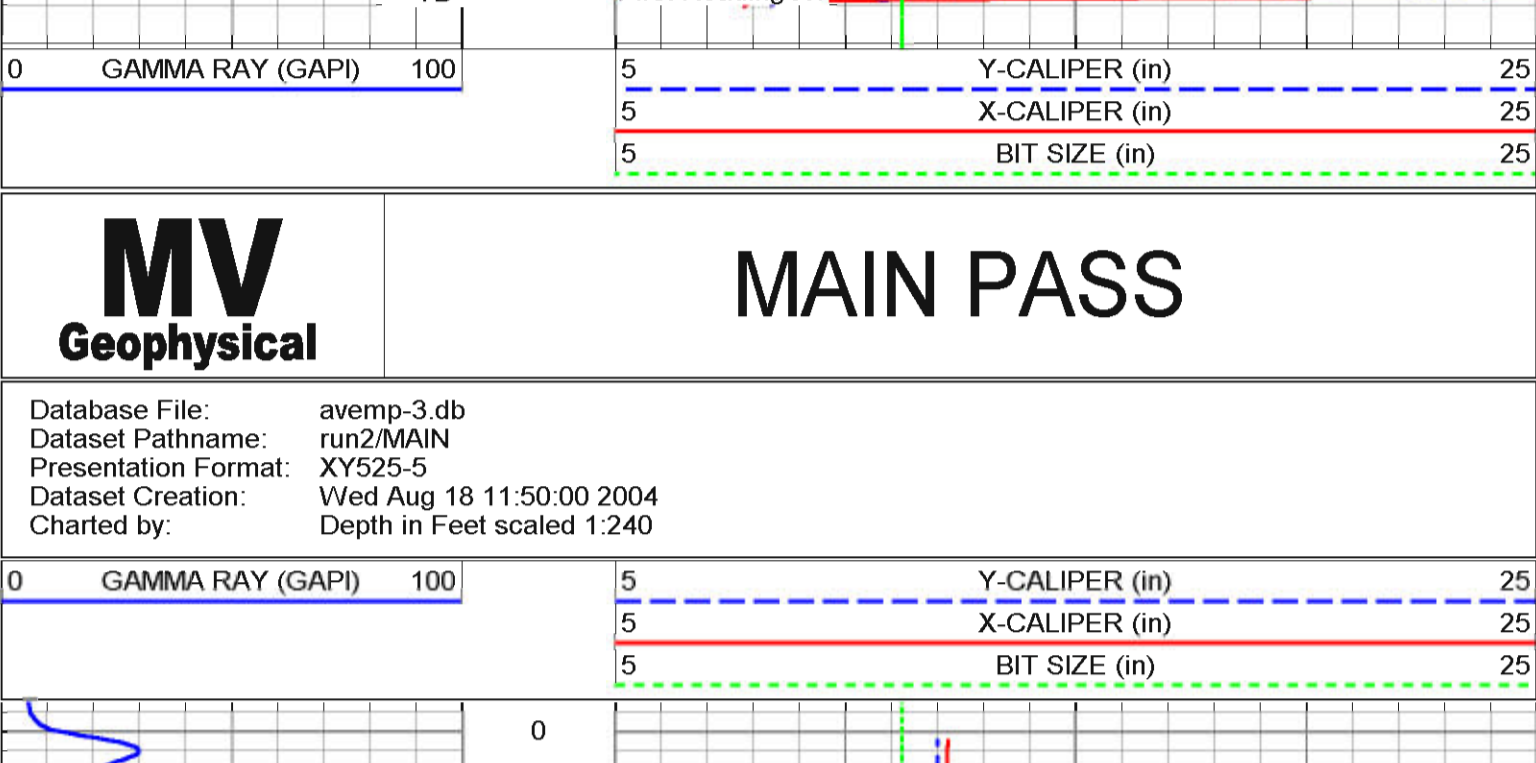
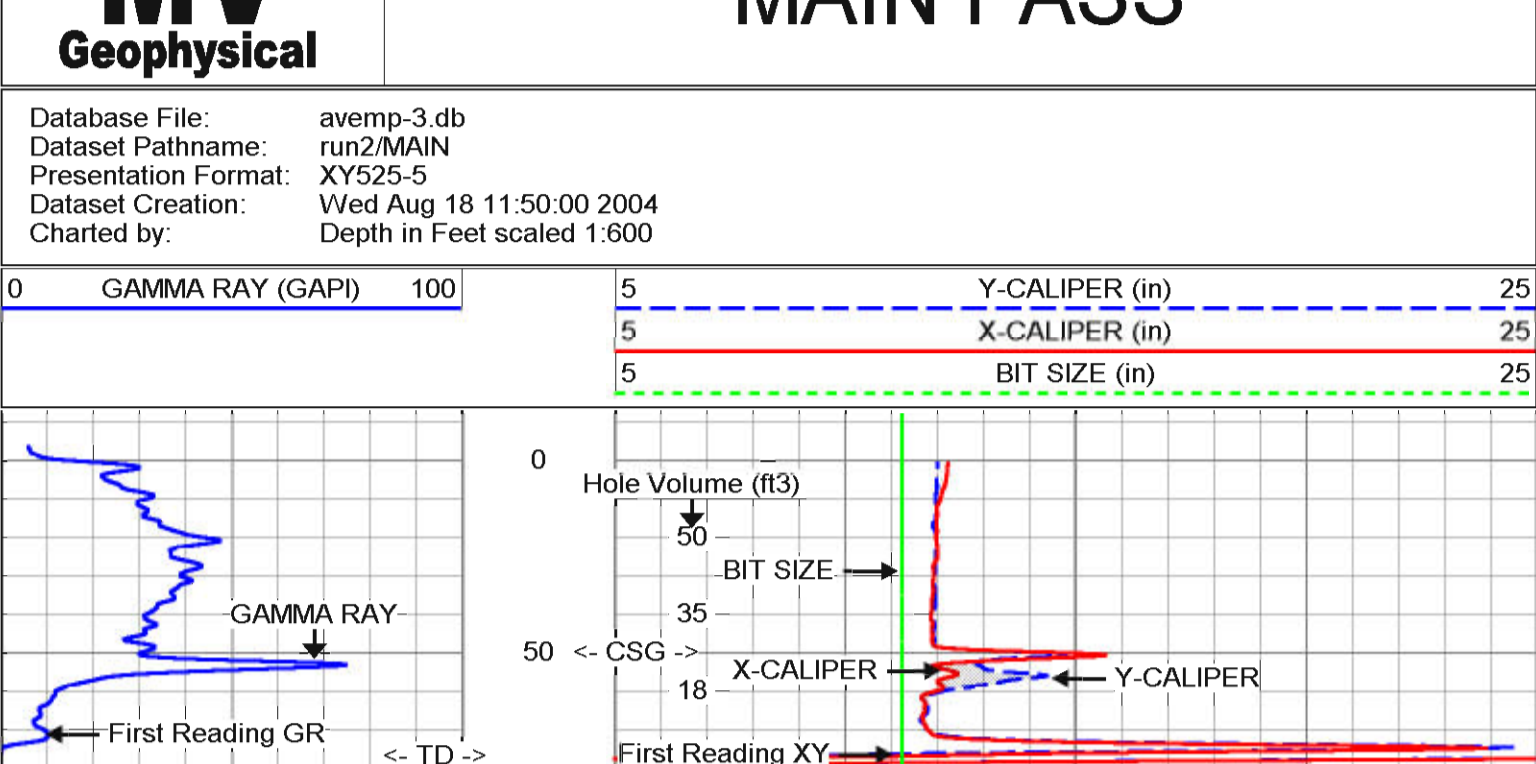
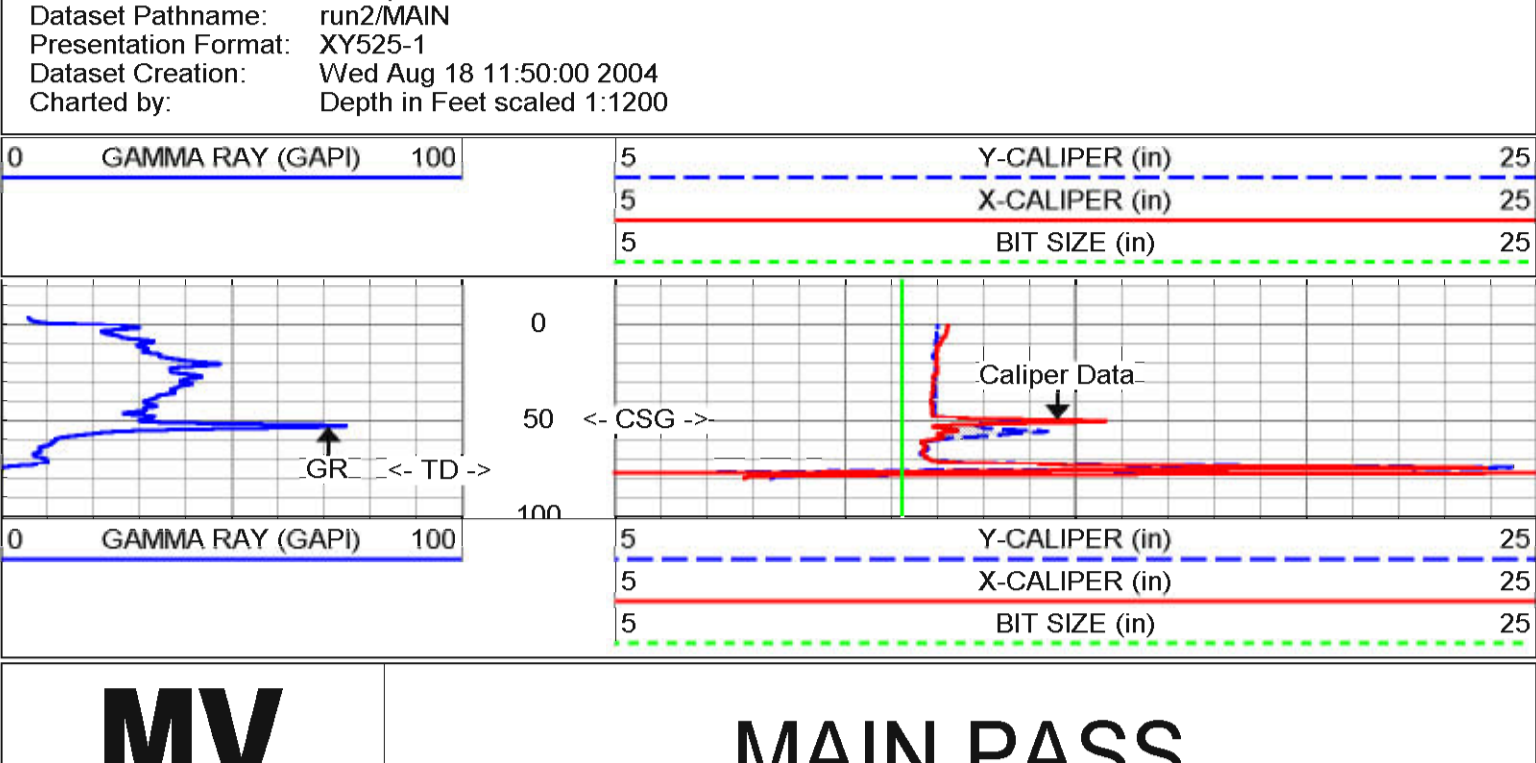
Company	Diversified Drilling Corp.	Well	Ave Maria P-3	Field	Ave Maria University	County	Collier	State/Prv	Florida	Location	Ave Maria WWTP & WTP CH2M Hill, Inc.	Other Services	DIL/SP FRT.FLOW VIDEO
Company	Diversified Drilling Corporation	Well	Ave Maria P-3	Field	Ave Maria University	County	Collier	State/Prv	Florida	Location	Ave Maria WWTP & WTP CH2M Hill, Inc.	Other Services	DIL/SP FRT.FLOW VIDEO
Date	18-AUG-2004	Permanent Datum	G.L.	Elevation	G.L.	Log Measured From	G.L.	Elevation	K.B. D.F. G.L.	Drilling Measured From	G.L.		
Run Number	TWO	Depth Driver	78"	Bottom Logged Interval	77" 78"	Top Log Interval	77" 78"	Bottom Logged Interval	77" 78"	Surface	WATER		
Top Log Interval	NA	Type Fluid	WATER	Density / Viscosity	NA	Max. Recorded Temp.	NA	Estimated Cement Top	10.00 8/18/04	Time Well Ready	10.00 8/18/04	Time Logger on Bottom	10.00 8/18/04
Equipment Number	1000	Fl. Meters	MMGS-1	Witnessed By	S. Miller	Recorded By	C. Wreny (CH2M)	Reapt (DDCI)					
Run Number	7	Depth Driver	20"	Bottom Logged Interval	20"	Top Log Interval	20"	Bottom Logged Interval	20"	Surface	WATER		
Top Log Interval	NA	Type Fluid	WATER	Density / Viscosity	NA	Max. Recorded Temp.	NA	Estimated Cement Top	10.00 8/18/04	Time Well Ready	10.00 8/18/04	Time Logger on Bottom	10.00 8/18/04
Equipment Number	1000	Fl. Meters	MMGS-1	Witnessed By	S. Miller	Recorded By	C. Wreny (CH2M)	Reapt (DDCI)					
Run Number	12	Depth Driver	20"	Bottom Logged Interval	20"	Top Log Interval	20"	Bottom Logged Interval	20"	Surface	WATER		
Top Log Interval	NA	Type Fluid	WATER	Density / Viscosity	NA	Max. Recorded Temp.	NA	Estimated Cement Top	10.00 8/18/04	Time Well Ready	10.00 8/18/04	Time Logger on Bottom	10.00 8/18/04
Equipment Number	1000	Fl. Meters	MMGS-1	Witnessed By	S. Miller	Recorded By	C. Wreny (CH2M)	Reapt (DDCI)					

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

X-Y Caliper Arm Extensions: 33"

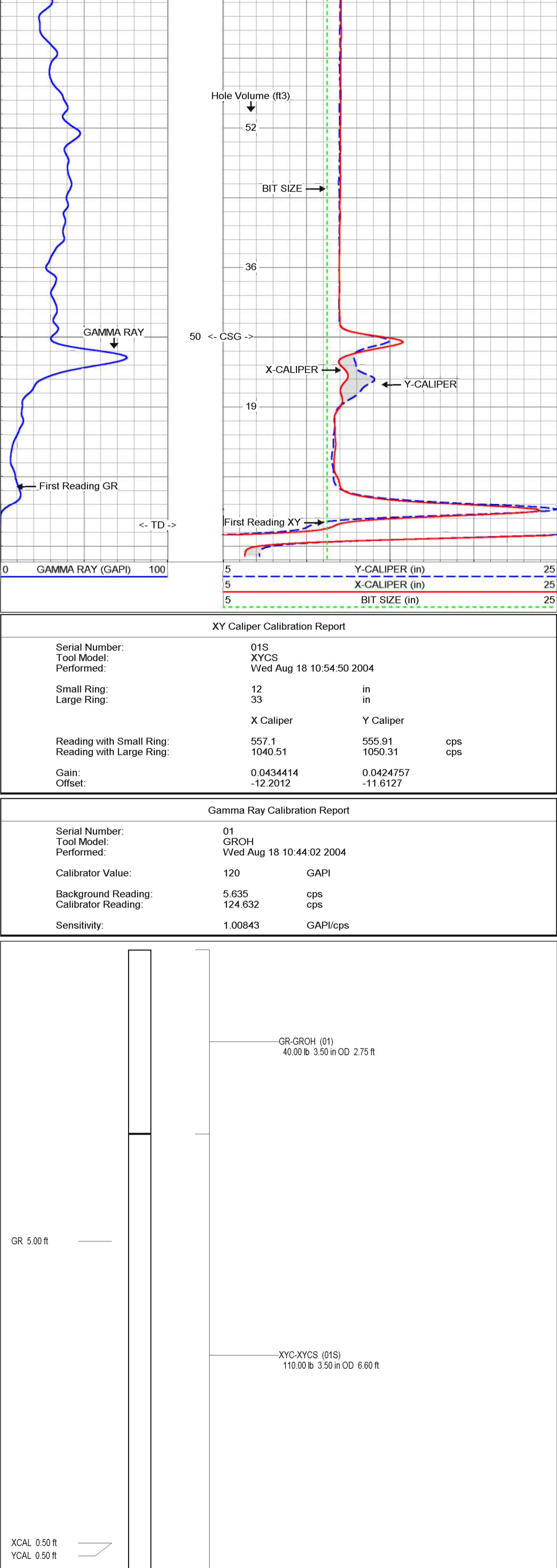


XY Caliper Calibration Report

Serial Number:	01S		
Tool Model:	XYCS		
Performed:	Wed Aug 18 10:54:50 2004		
Small Ring:	12	in	
Large Ring:	33	in	
	X Caliper	Y Caliper	
Reading with Small Ring:	557.1	1055.91	cps
Reading with Large Ring:	1040.51	5050.31	cps
Gain:	0.0434414	0.0424757	
Offset:	-12.2012	-11.6127	

Gamma Ray Calibration Report

Serial Number:	01		
Tool Model:	GROH		
Performed:	Wed Aug 18 10:44:02 2004		
Calibrator Value:	120	GAPI	
Background Reading:	5.635	cps	
Calibrator Reading:	124.632	cps	
Sensitivity:	1.00843	GAPI/cps	



APPENDIX F

Video Surveys



CH2MHILL

Record of Underwater TV Survey

Project: Ave Maria

Well: Well P-1

Survey By: MV Geophysical Surveys, Inc.

Survey Date: 09/14/2004

Witnessed By: Carlton Ivery/CH2MHILL

Reviewed By: Pete Larkin/CH2MHILL

Remarks: All depths referenced to land surface

Well Depth: 83 feet bls

Survey Interval: 61-83 feet bls

Casing: 12-inch SDR-17 PVC
to 61 feet bls

Borehole: 12-inch to 83 feet bls

Depth in Feet/Inches		Observations
From	To	
0	6' 8"	Inside casing.
6' 8"	6' 8"	Enter water.
6' 8"	22	Casing wall no problems noted, note pump suction hose.
22	22	End of pump intake.
22	42	Casing wall, no problems noted.
42	42	Casing joint, no problems noted.
42	61	Casing wall, no problems noted.
61	61	End of casing, cement plug noted around base of casing.
61	63	Enter borehole, note cement sleeve on one side of borehole wall.
63	79	Gauged borehole, limestone formation, vuggy.
79	80	Decreased visibility.
80	81	No visibility.
81	81	Total depth of borehole.

End of Video



CH2MHILL

Record of Underwater TV Survey

Project: Ave Maria

Well: Well P-2

Survey By: MV Geophysical Surveys, Inc.

Survey Date: 08/27/2004

Witnessed By: Carlton Ivery/CH2MHILL

Reviewed By: Pete Larkin/CH2MHILL

Remarks: All depths referenced to land surface

Well Depth: 83 feet bls

Survey Interval: 0-83 feet bls

Casing: 12-inch PVC SDR-17
to 59 feet bls

Borehole: 12-inch to 83 feet bls

Depth in Feet		Observations
From	To	
0	5' 6"	Inside casing.
5' 6"	5' 6"	Enter water.
5' 6"	18' 8"	Casing wall, no problems noted, note pump intake hose.
18' 8"	18' 8"	Casing joint, no problems noted.
18' 8"	19	Casing wall, no problems noted.
19	19	End of pump intake.
19	39	Casing wall, no problems noted.
39	39	Casing joint, no problems noted.
39	59	Casing wall, no problems noted.
59	59	End of casing. Cement plug noted around base of casing.
59	74	Enter borehole, gauged, vuggy, limestone formation.
74	76	Decreased visibility.
76	80	No visibility.
80	80	Total depth of borehole.

End of Video



CH2MHILL

Record of Underwater TV Survey

Project: Ave Maria

Well: P-3

Survey By: MV Geophysical Surveys, Inc.

Survey Date: 09/14/2004

Witnessed By: Carlton Ivery/CH2MHILL

Well Depth: 70 feet bls

Survey Interval: 0-70 feet bls

Reviewed By: Pete Larkin/CH2MHILL

Remarks: All depths referenced to land surface
Borehole viewed after back-plugging

Casing: 12-inch SDR-17 PVC
to 50 feet bls

Borehole: 12-inch to 70 feet bls

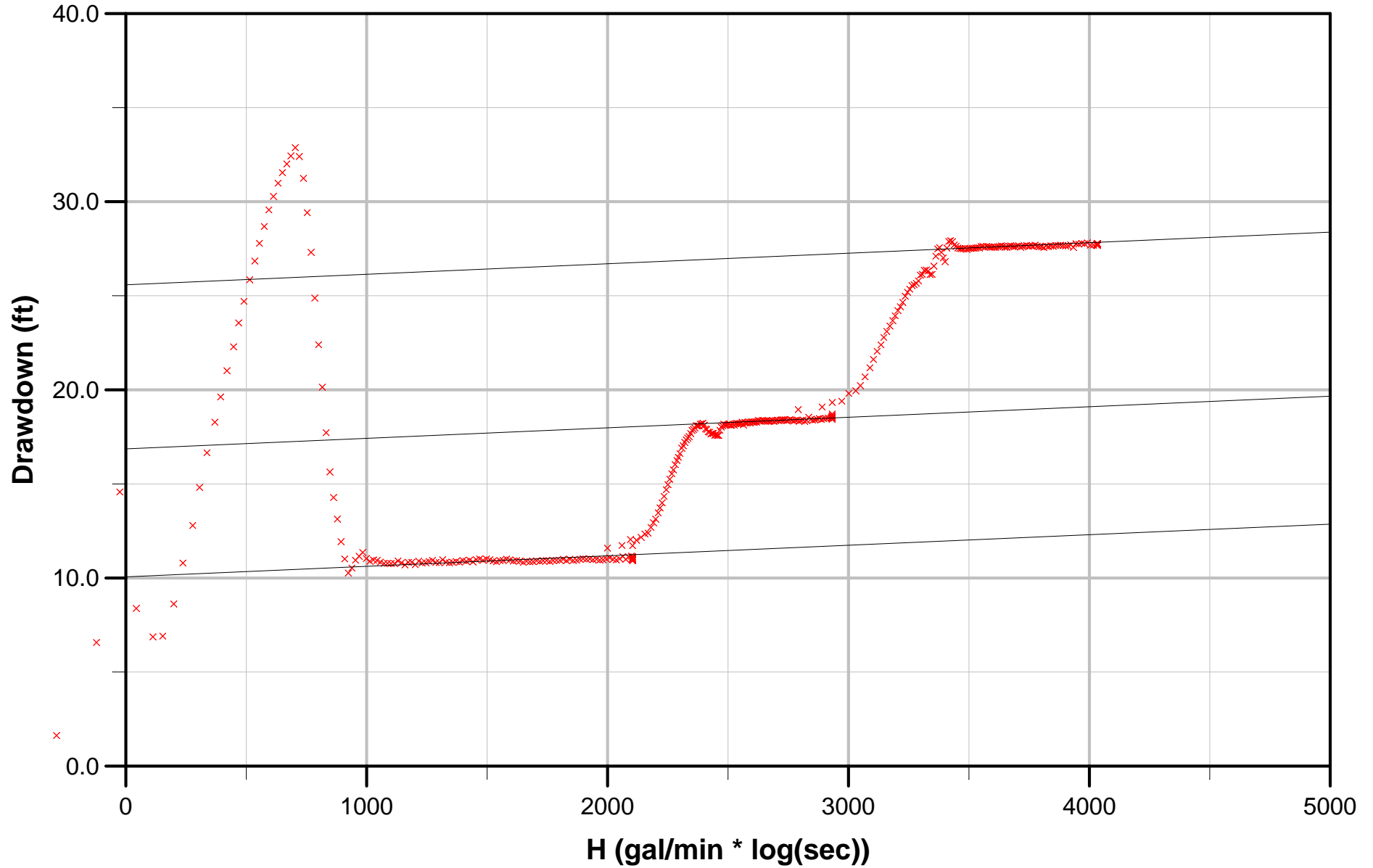
Depth in Feet/Inches		Observations
From	To	
0	3' 9"	Inside casing.
3' 9"	3' 9"	Enter water.
3' 9"	18' 8"	Low visibility, Inside casing note pump hose.
18' 8"	18' 8"	Casing joint, no problems noted.
18' 8"	38' 8"	Casing wall, no problems noted, visibility improving.
38' 8"	38' 8"	Casing joint, no problems noted.
38' 8"	50	Casing wall, no problems noted.
50	50	End of casing.
50	61	Enter borehole, most of cement plug broken away from base of casing, borehole slightly over-gauged, limestone formation, vuggy.
61	70	Gauged borehole, less vuggy.
70	70	Total Depth of borehole, note visibility remained good at TD.

End of video

APPENDIX G

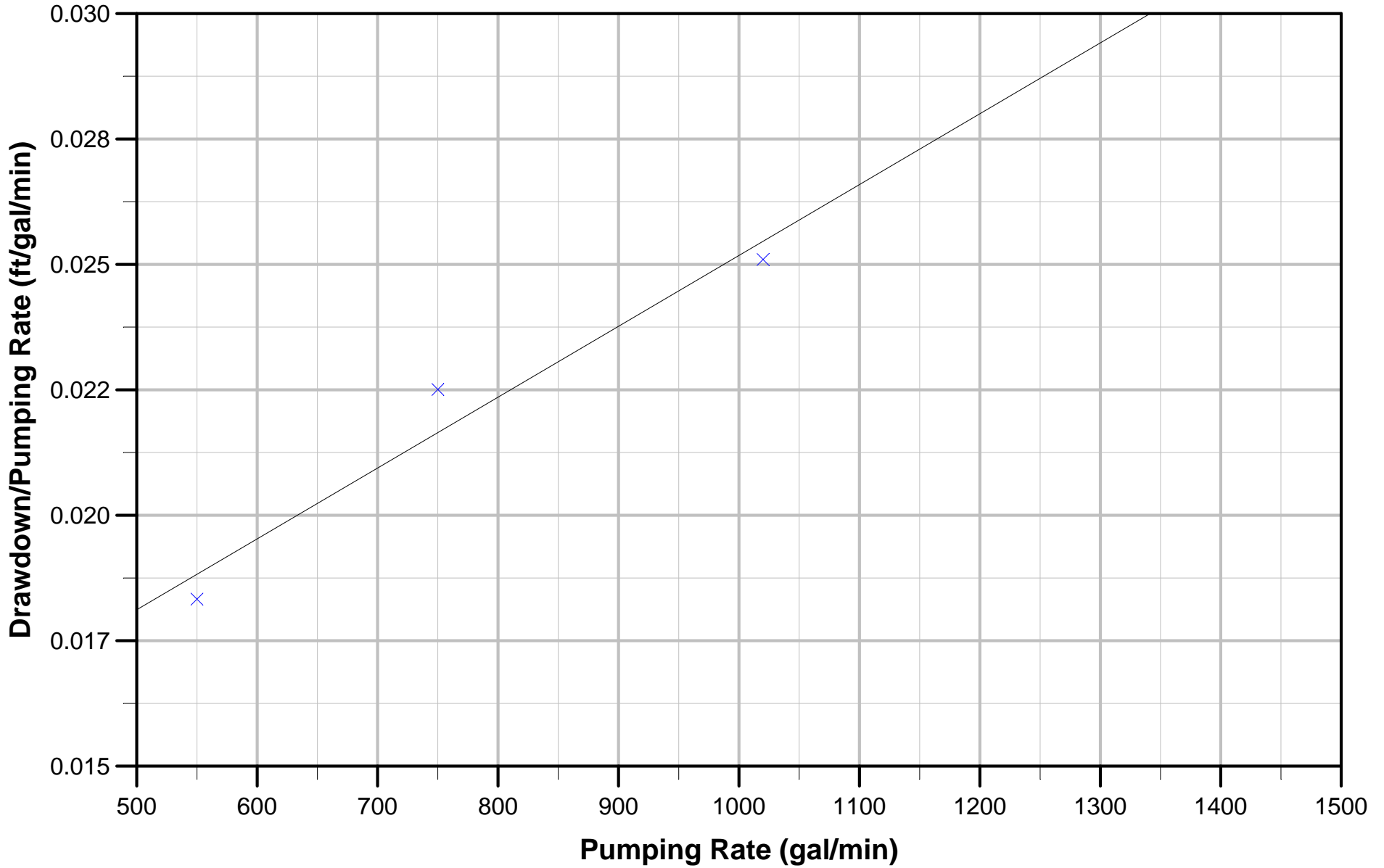
Pumping Test Analyses Plots

P-1 Step Pumping Test - Eden and Hazel Step Test Analysis - Step 1

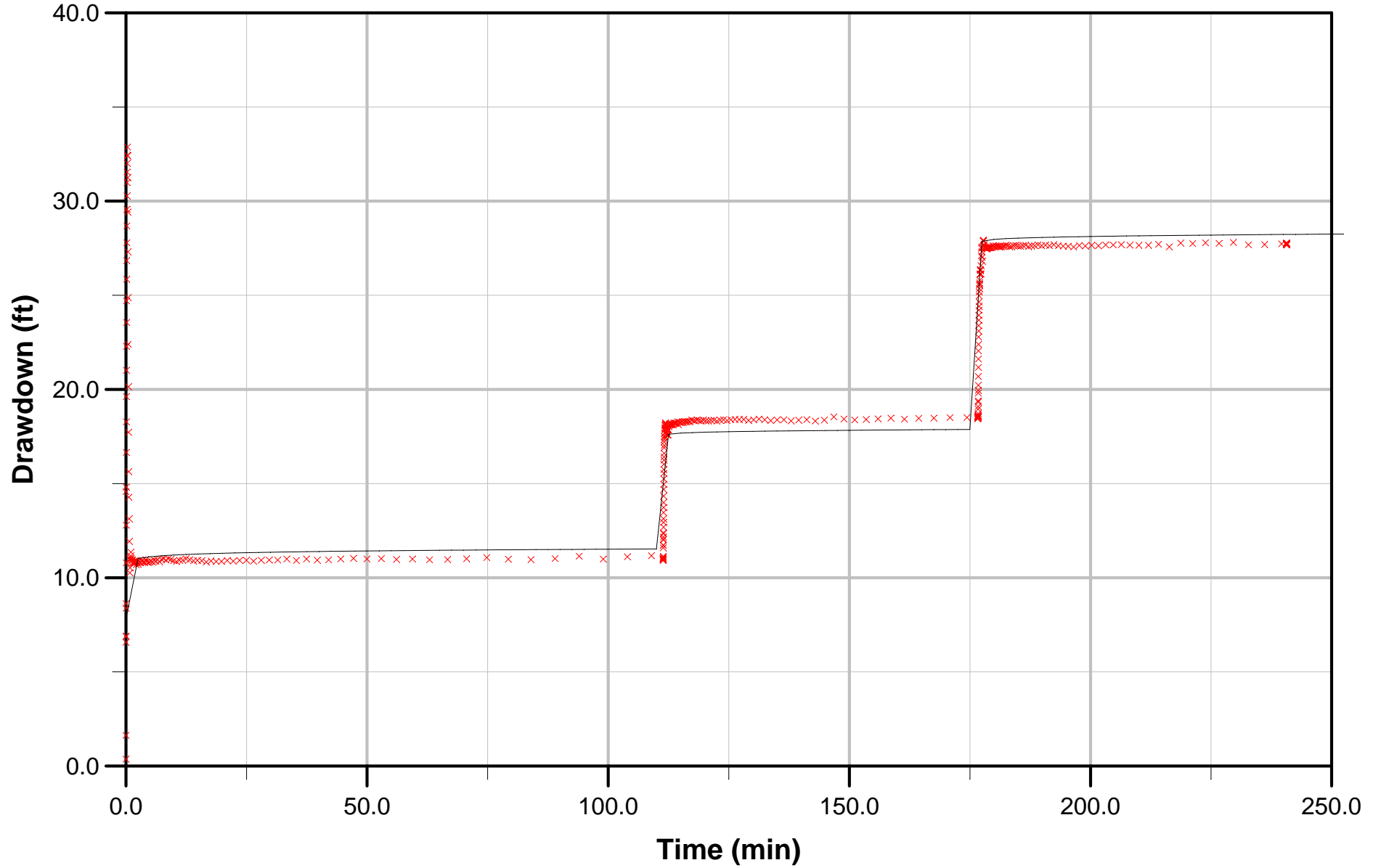


Transmissivity 62920 sq ft/d

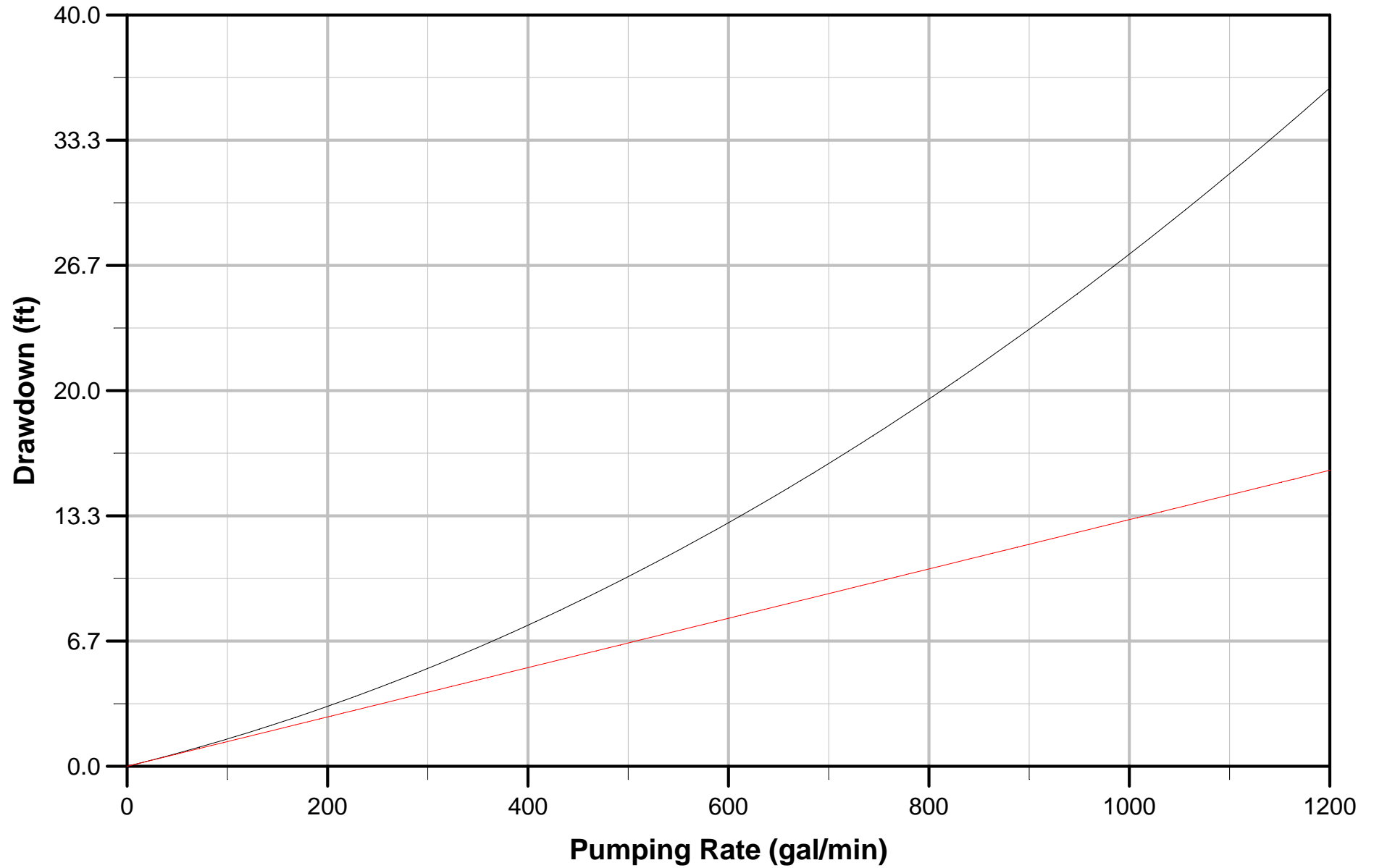
P-1 Step Pumping Test - Eden and Hazel Step Test Analysis - Step 2



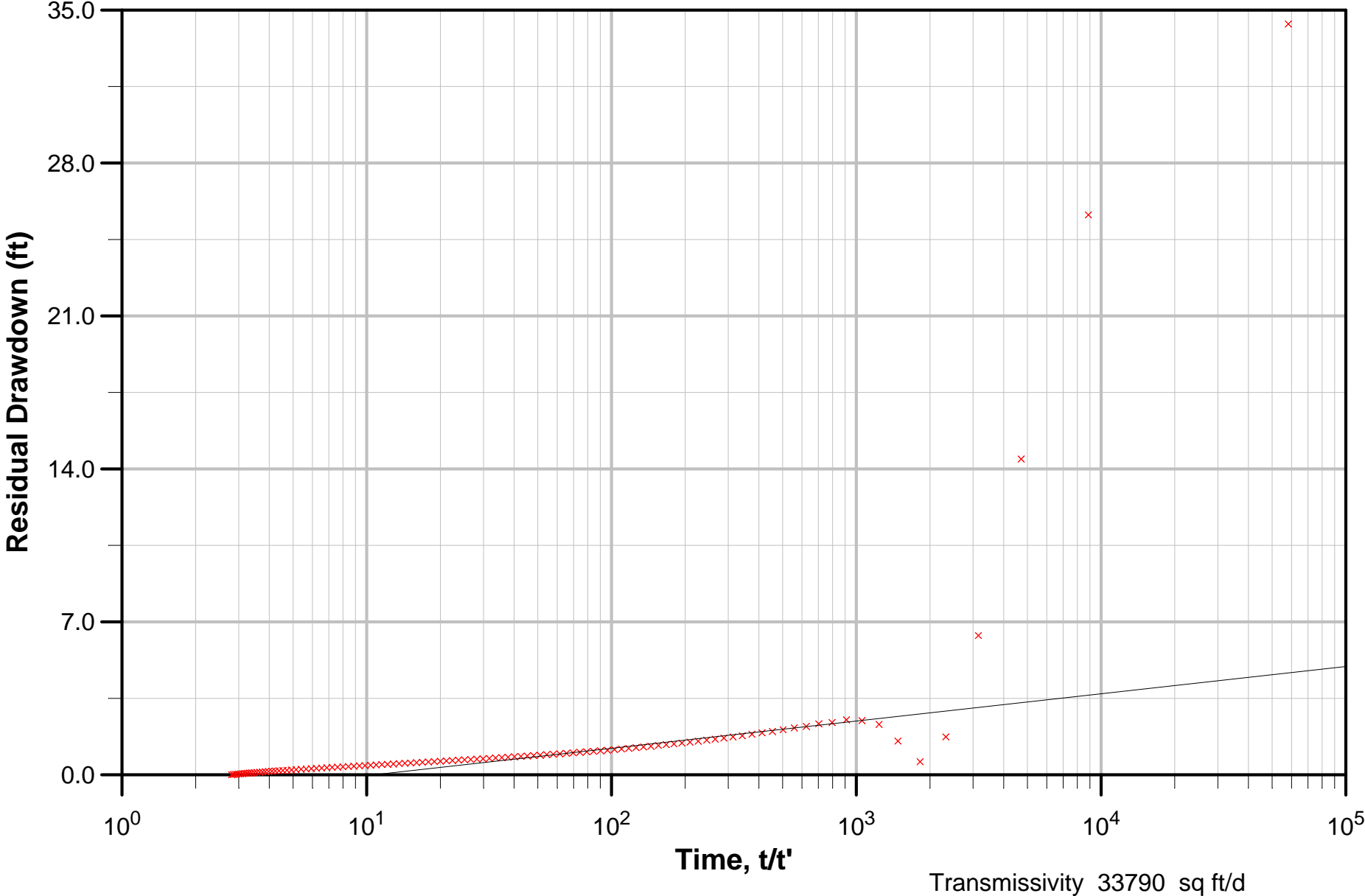
P-1 Step Pumping Test - Eden and Hazel Step Test Analysis - Predicted Well Response



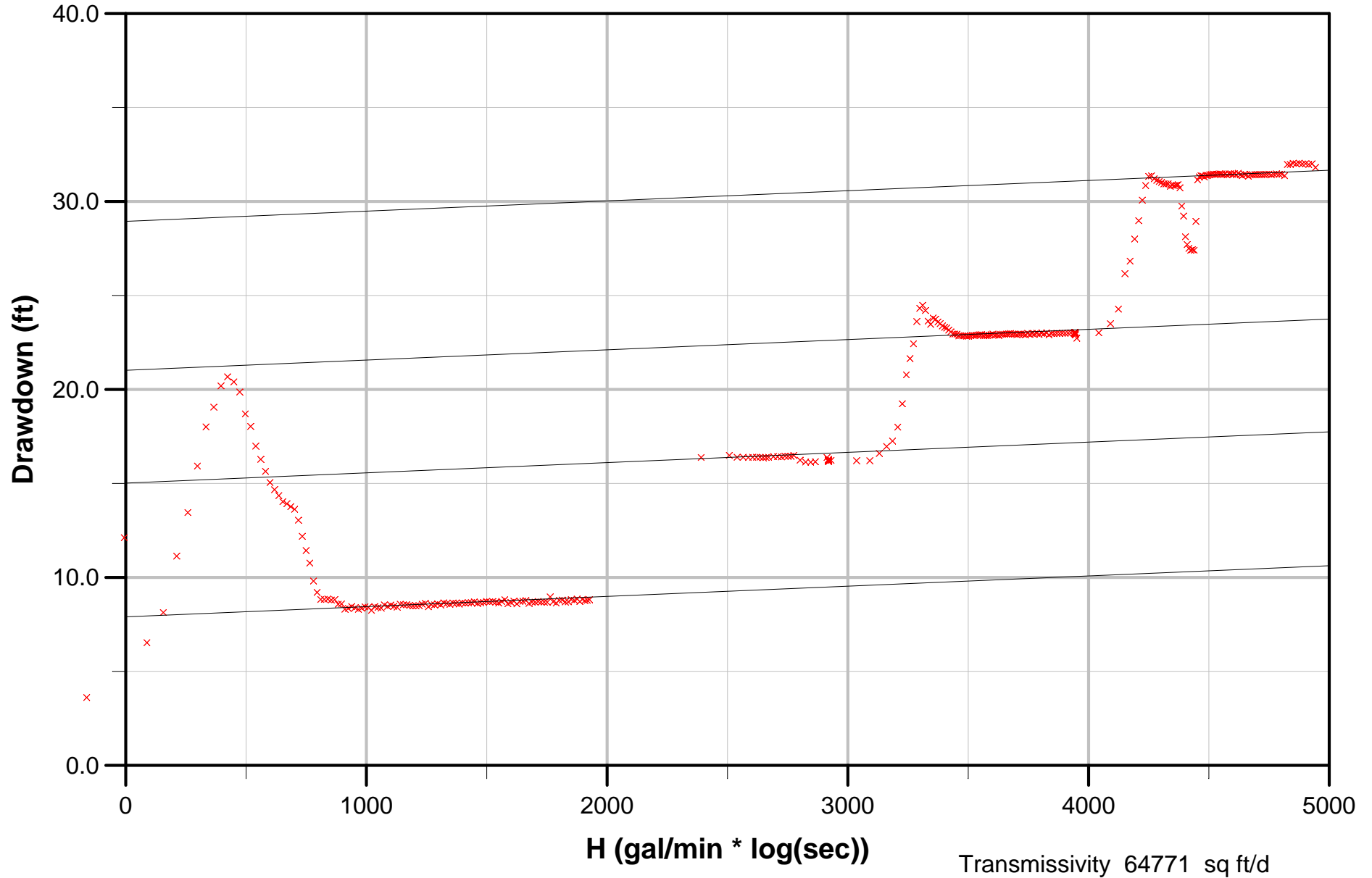
P-1 Step Pumping Test - Eden and Hazel Step Test Analysis - Yield/Drawdown



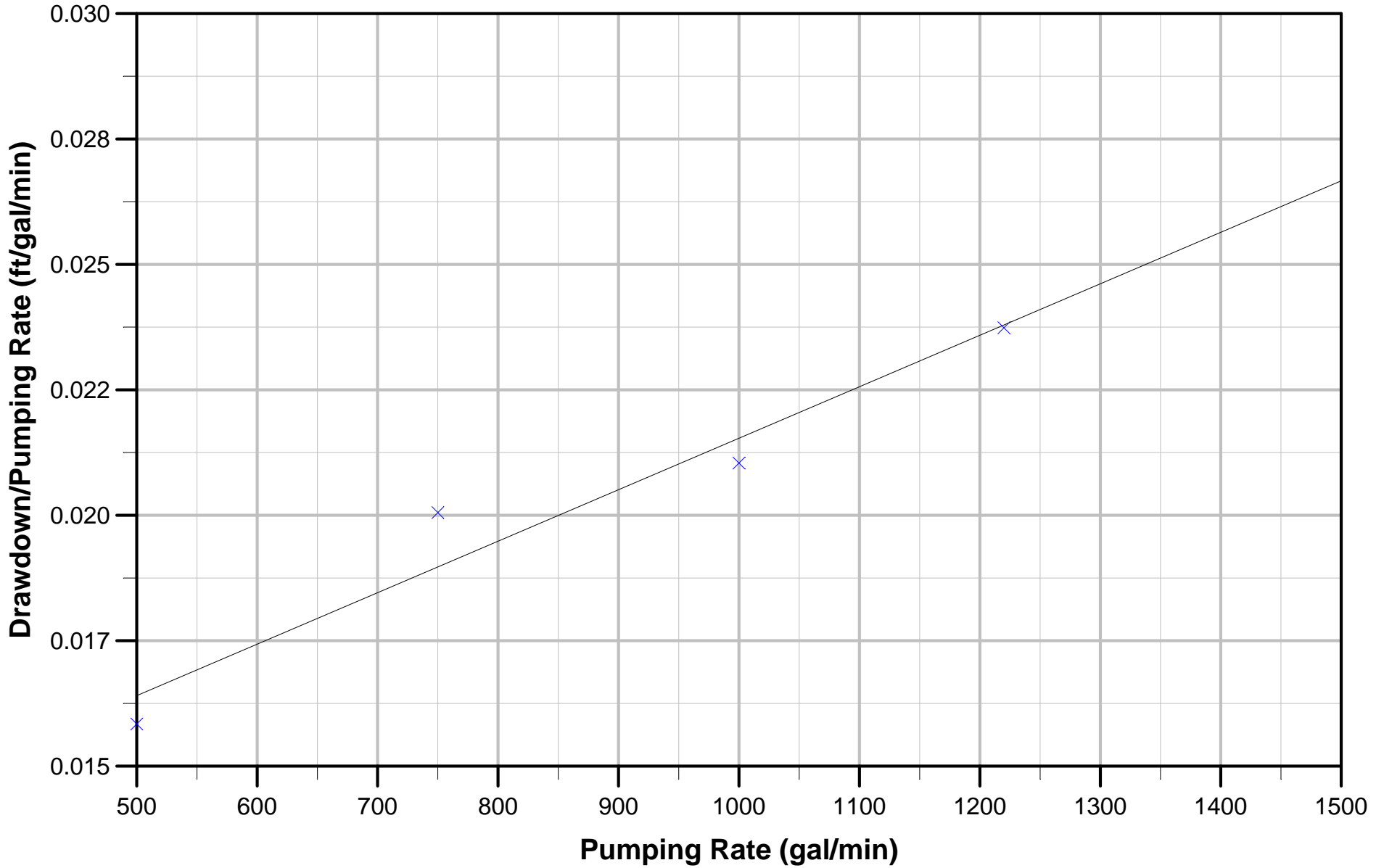
P-1 Step Pumping Test Recovery - Theis Recovery Analysis



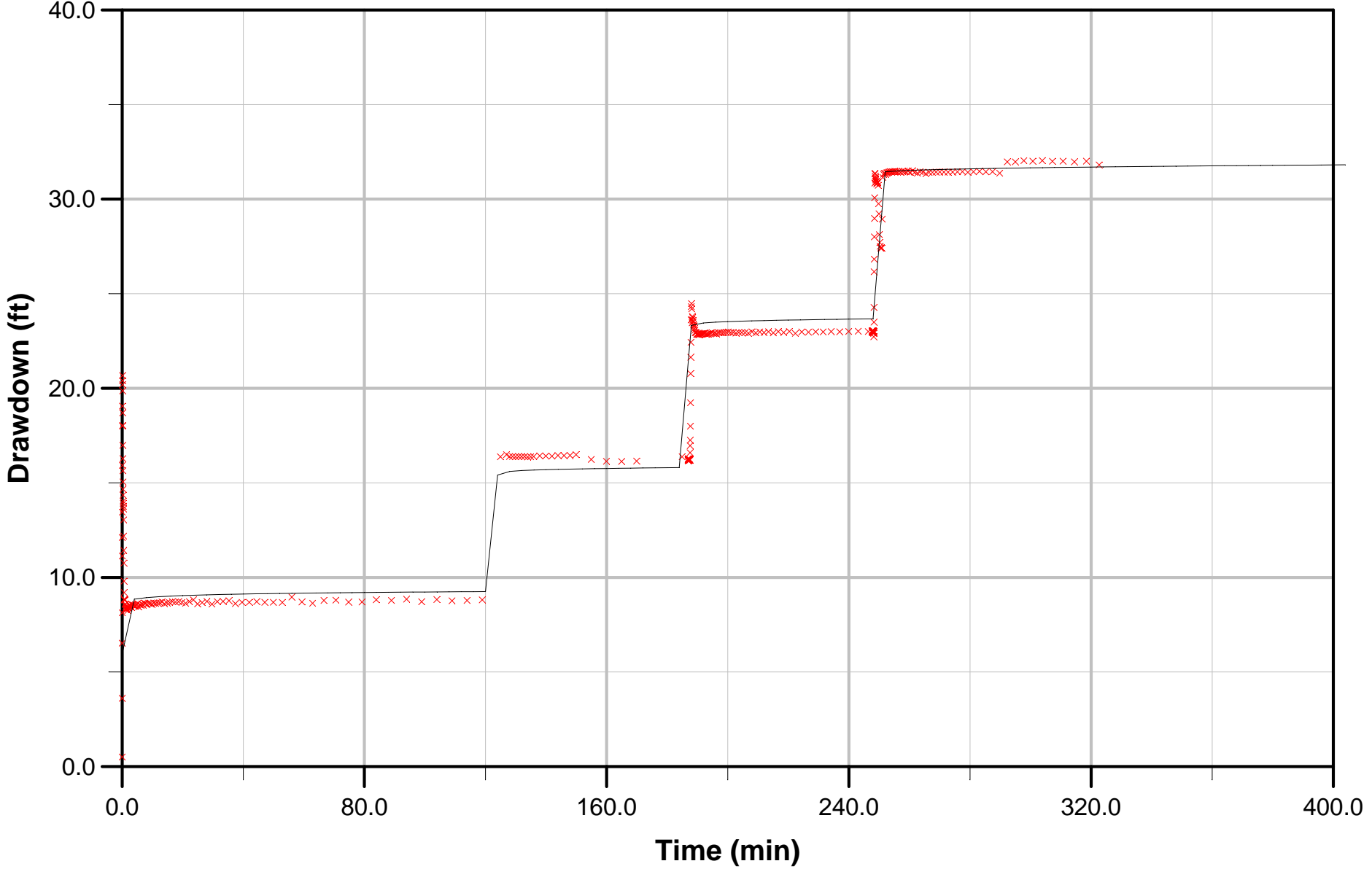
P-2 Step Pumping Test - Eden and Hazel Step Test Analysis - Step 1



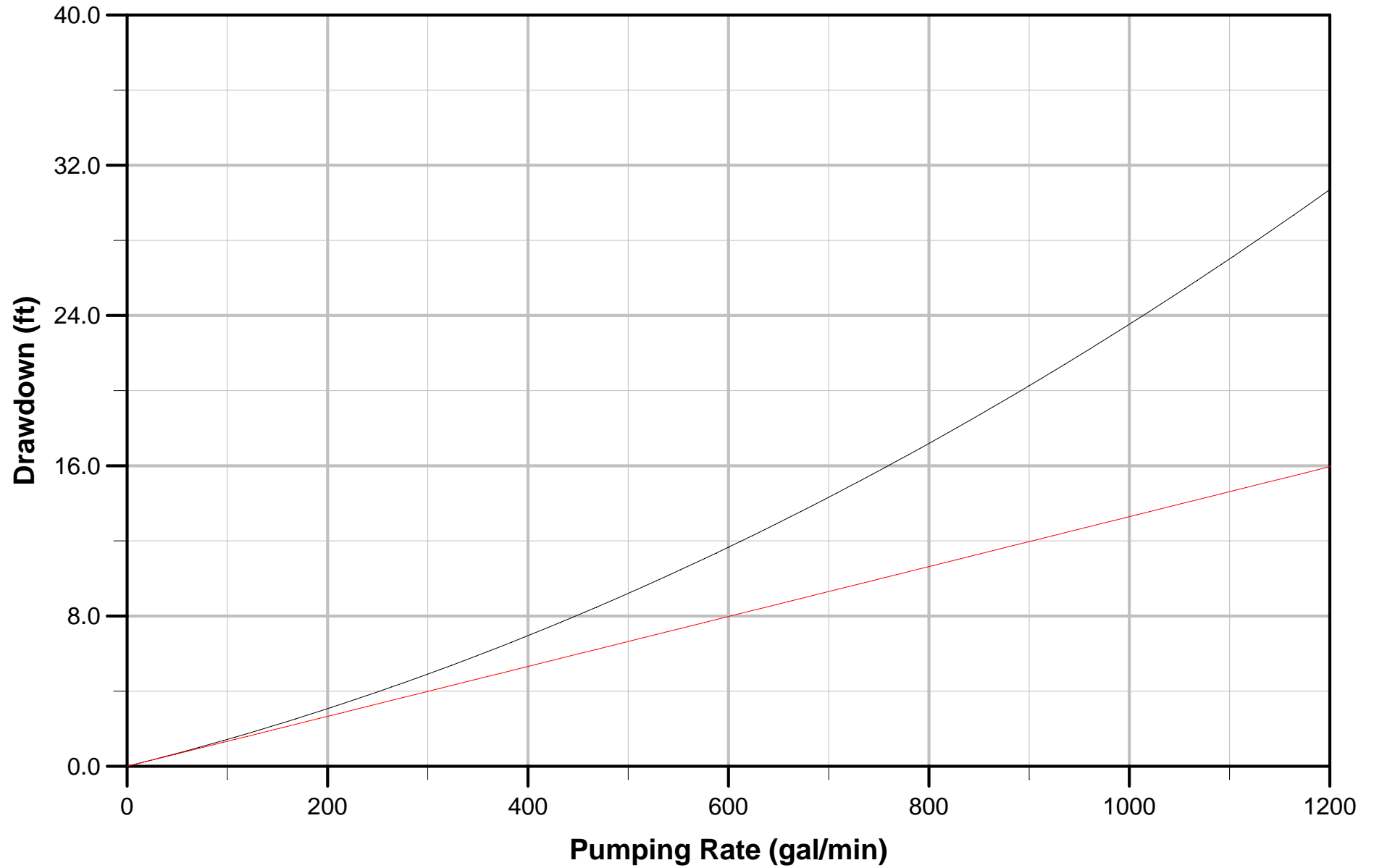
P-2 Step Pumping Test - Eden and Hazel Step Test Analysis - Step 2



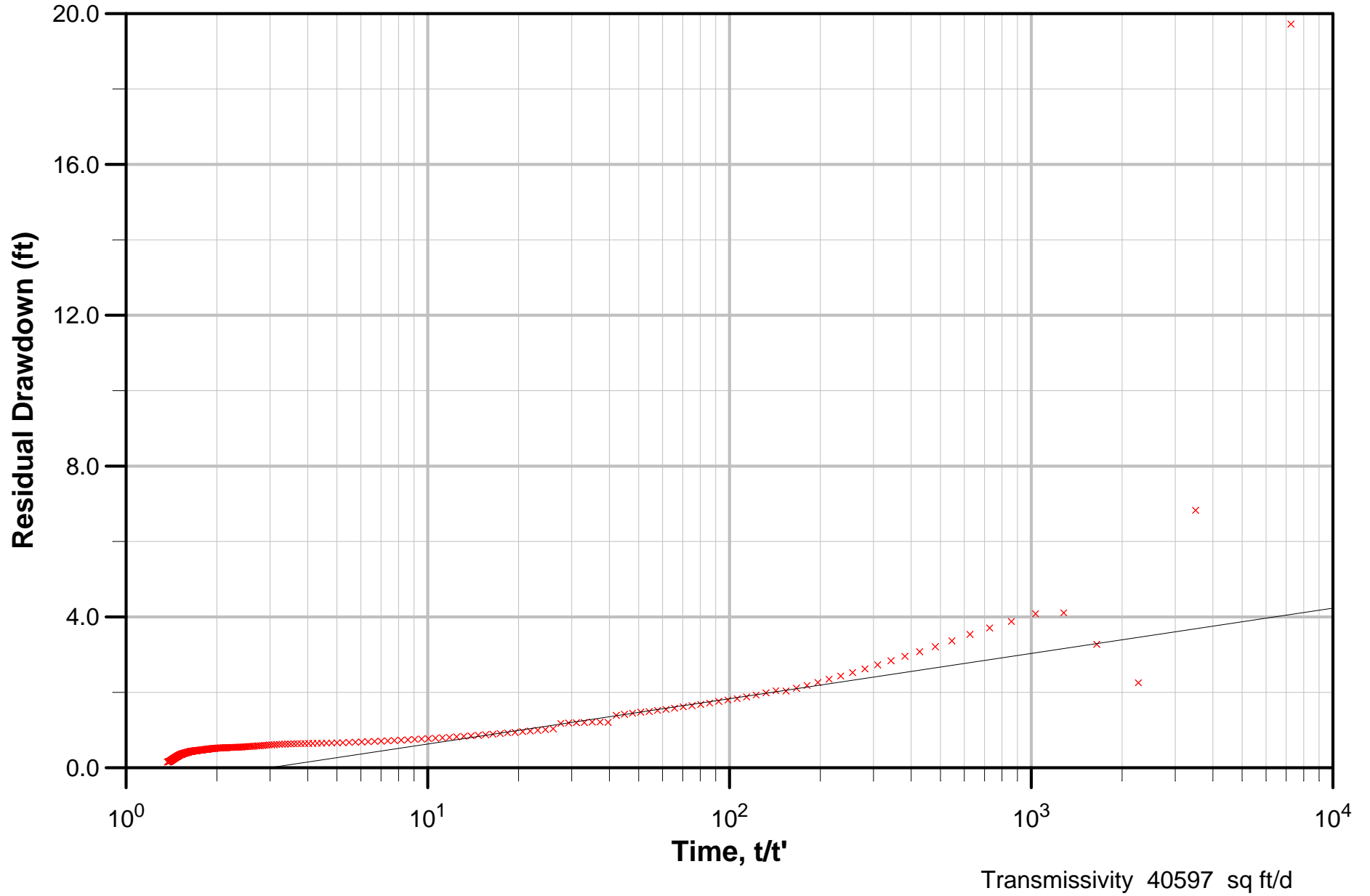
P-2 Step Pump Test - Eden and Hazel Step Test Analysis - Predicted Well Response



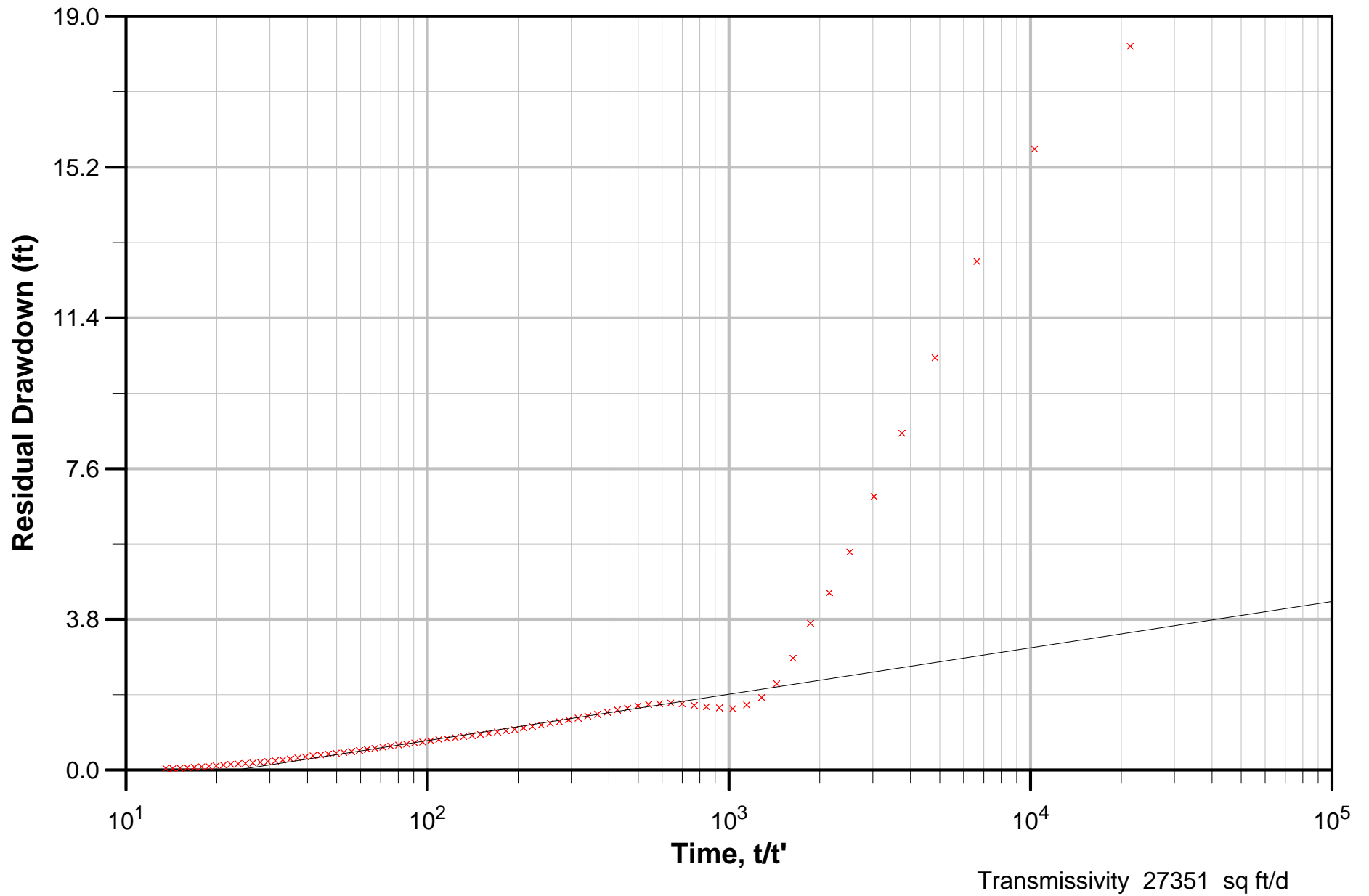
P-2 Step Pump Test - Eden and Hazel Step Test Analysis - Yield/Drawdown



P-2 Step Pumping Test Recovery - Theis Recovery Analysis



P-3 Step Pumping Test Recovery - Theis Recovery Analysis



APPENDIX H

Variable Rate Step Test Tabulates Water Level Data

P-1 Pumping

P-2 Observation

P-3 Observation

Date/Time	Elapsed Time (Hours)	Drawdown (feet)	Date/Time	Elapsed Time (Hours)	Drawdown (feet)	Date/Time	Elapsed Time (Hours)	Drawdown (feet)
9/21/04 8:31	-1.0418	0.000	9/21/04 9:01	-0.5297	-0.022	9/21/04 8:56	-0.6242	-0.051
9/21/04 8:41	-0.8751	0.000	9/21/04 9:11	-0.3630	-0.017	9/21/04 9:06	-0.4575	-0.037
9/21/04 8:51	-0.7085	0.000	9/21/04 9:21	-0.1963	-0.009	9/21/04 9:16	-0.2908	-0.021
9/21/04 9:01	-0.5418	0.004	9/21/04 9:31	-0.0297	0.000	9/21/04 9:26	-0.1242	-0.002
9/21/04 9:11	-0.3751	0.008	9/21/04 9:34	0.0078	0.051	9/21/04 9:26	-0.1186	0.000
9/21/04 9:21	-0.2085	0.017	9/21/04 9:34	0.0120	0.127	9/21/04 9:35	0.0369	0.057
9/21/04 9:31	-0.0418	0.023	9/21/04 9:34	0.0162	0.189	9/21/04 9:36	0.0425	0.066
9/21/04 9:33	-0.0013	0.025	9/21/04 9:35	0.0245	0.255	9/21/04 9:37	0.0703	0.109
9/21/04 9:33	-0.0012	0.010	9/21/04 9:35	0.0370	0.307	9/21/04 9:40	0.1203	0.162
9/21/04 9:33	-0.0011	0.004	9/21/04 9:36	0.0537	0.359	9/21/04 9:44	0.1869	0.217
9/21/04 9:33	-0.0010	0.002	9/21/04 9:38	0.0828	0.417	9/21/04 9:46	0.2092	0.228
9/21/04 9:33	-0.0009	0.000	9/21/04 9:41	0.1245	0.470	9/21/04 9:49	0.2647	0.267
9/21/04 9:33	-0.0008	0.000	9/21/04 9:41	0.1370	0.483	9/21/04 9:54	0.3425	0.317
9/21/04 9:33	-0.0008	-0.002	9/21/04 9:44	0.1870	0.522	9/21/04 9:56	0.3758	0.331
9/21/04 9:33	-0.0007	-0.002	9/21/04 9:50	0.2828	0.573	9/21/04 10:03	0.4981	0.368
9/21/04 9:33	-0.0006	-0.002	9/21/04 9:51	0.3037	0.582	9/21/04 10:06	0.5425	0.370
9/21/04 9:33	-0.0005	-0.004	9/21/04 9:59	0.4328	0.625	9/21/04 10:15	0.6925	0.420
9/21/04 9:33	-0.0004	-0.002	9/21/04 10:01	0.4703	0.636	9/21/04 10:16	0.7092	0.429
9/21/04 9:33	-0.0003	-0.004	9/21/04 10:11	0.6370	0.674	9/21/04 10:23	0.8369	0.470
9/21/04 9:33	-0.0003	-0.004	9/21/04 10:12	0.6412	0.676	9/21/04 10:26	0.8758	0.479
9/21/04 9:33	-0.0002	-0.003	9/21/04 10:21	0.8037	0.704	9/21/04 10:36	1.0425	0.494
9/21/04 9:33	-0.0001	-0.005	9/21/04 10:29	0.9370	0.728	9/21/04 10:41	1.1314	0.523
9/21/04 9:33	0.0000	-0.005	9/21/04 10:31	0.9703	0.732	9/21/04 10:46	1.2092	0.543
9/21/04 9:33	0.0000	0.366	9/21/04 10:41	1.1370	0.756	9/21/04 10:53	1.3314	0.575
9/21/04 9:33	0.0001	1.630	9/21/04 10:51	1.3037	0.775	9/21/04 10:56	1.3758	0.591
9/21/04 9:33	0.0002	6.572	9/21/04 10:53	1.3328	0.779	9/21/04 11:06	1.5425	0.623
9/21/04 9:33	0.0003	14.572	9/21/04 11:01	1.4703	0.792	9/21/04 11:07	1.5647	0.626
9/21/04 9:33	0.0003	8.384	9/21/04 11:11	1.6370	0.809	9/21/04 11:16	1.7092	0.610
9/21/04 9:33	0.0004	6.872	9/21/04 11:21	1.8037	0.825	9/21/04 11:26	1.8758	0.635
9/21/04 9:33	0.0005	6.910	9/21/04 11:25	1.8620	0.831	9/21/04 11:28	1.9092	0.679
9/21/04 9:33	0.0006	8.620	9/21/04 11:26	1.8787	0.896	9/21/04 11:34	2.0147	0.731
9/21/04 9:33	0.0008	10.795	9/21/04 11:27	1.8953	0.947	9/21/04 11:36	2.0425	0.747
9/21/04 9:33	0.0009	12.792	9/21/04 11:29	1.9245	1.001	9/21/04 11:42	2.1481	0.781
9/21/04 9:33	0.0010	14.816	9/21/04 11:31	1.9703	1.046	9/21/04 11:46	2.2092	0.809
9/21/04 9:33	0.0011	16.654	9/21/04 11:32	1.9787	1.052	9/21/04 11:51	2.3036	0.831
9/21/04 9:33	0.0013	18.279	9/21/04 11:39	2.0953	1.104	9/21/04 11:56	2.3758	0.857
9/21/04 9:33	0.0014	19.624	9/21/04 11:41	2.1370	1.117	9/21/04 12:06	2.5425	0.873
9/21/04 9:33	0.0016	21.019	9/21/04 11:51	2.3037	1.151	9/21/04 12:09	2.5981	0.882
9/21/04 9:33	0.0018	22.287	9/21/04 11:53	2.3245	1.155	9/21/04 12:16	2.7092	0.905
9/21/04 9:33	0.0020	23.558	9/21/04 12:01	2.4703	1.177	9/21/04 12:24	2.8536	0.934
9/21/04 9:33	0.0022	24.702	9/21/04 12:11	2.6370	1.198	9/21/04 12:26	2.8758	0.937
9/21/04 9:33	0.0024	25.849	9/21/04 12:16	2.7120	1.207	9/21/04 12:36	3.0425	0.978
9/21/04 9:33	0.0026	26.845	9/21/04 12:21	2.8037	1.218	9/21/04 12:36	3.0536	0.985
9/21/04 9:33	0.0028	27.786	9/21/04 12:31	2.9578	1.259	9/21/04 12:41	3.1314	1.037
9/21/04 9:33	0.0031	28.681	9/21/04 12:31	2.9703	1.317	9/21/04 12:46	3.2092	1.058
9/21/04 9:33	0.0033	29.566	9/21/04 12:32	2.9745	1.332	9/21/04 12:54	3.3536	1.087
9/21/04 9:33	0.0036	30.277	9/21/04 12:33	2.9912	1.383	9/21/04 12:56	3.3758	1.094
9/21/04 9:33	0.0039	30.985	9/21/04 12:34	3.0203	1.437	9/21/04 13:06	3.5425	1.101
9/21/04 9:33	0.0042	31.543	9/21/04 12:38	3.0745	1.489	9/21/04 13:16	3.7092	1.092
9/21/04 9:33	0.0046	32.008	9/21/04 12:41	3.1370	1.523	9/21/04 13:26	3.8758	1.085
9/21/04 9:33	0.0049	32.431	9/21/04 12:44	3.1787	1.540	9/21/04 13:36	4.0425	1.092
9/21/04 9:33	0.0053	32.868	9/21/04 12:51	3.3037	1.574	9/21/04 13:40	4.1092	1.138
9/21/04 9:33	0.0057	32.402	9/21/04 12:56	3.3787	1.592	9/21/04 13:46	4.2092	1.165
9/21/04 9:33	0.0061	31.243	9/21/04 13:01	3.4703	1.607	9/21/04 13:52	4.3092	1.188
9/21/04 9:33	0.0065	29.416	9/21/04 13:11	3.6370	1.632	9/21/04 13:56	4.3758	1.197
9/21/04 9:33	0.0069	27.306	9/21/04 13:15	3.6995	1.643	9/21/04 14:06	4.5425	1.213
9/21/04 9:34	0.0074	24.878	9/21/04 13:21	3.8037	1.654	9/21/04 14:16	4.7092	1.222
9/21/04 9:34	0.0079	22.401	9/21/04 13:31	3.9703	1.671	9/21/04 14:26	4.8758	1.229
9/21/04 9:34	0.0084	20.139	9/21/04 13:35	4.0245	1.697	9/21/04 14:36	5.0425	1.227
9/21/04 9:34	0.0090	17.722	9/21/04 13:36	4.0412	1.757	9/21/04 14:46	5.2092	1.206
9/21/04 9:34	0.0096	15.634	9/21/04 13:37	4.0662	1.809	9/21/04 14:56	5.3758	1.204
9/21/04 9:34	0.0103	14.279	9/21/04 13:41	4.1287	1.860	9/21/04 15:06	5.5425	1.161
9/21/04 9:34	0.0110	13.131	9/21/04 13:41	4.1370	1.864	9/21/04 15:16	5.7092	1.167
9/21/04 9:34	0.0117	11.925	9/21/04 13:50	4.2787	1.911	9/21/04 15:26	5.8758	1.211
9/21/04 9:34	0.0125	11.012	9/21/04 13:51	4.3037	1.916	9/21/04 15:36	6.0425	1.188
9/21/04 9:34	0.0133	10.263	9/21/04 14:01	4.4703	1.933	9/21/04 15:41	6.1369	1.126
9/21/04 9:34	0.0141	10.525	9/21/04 14:11	4.6370	1.948	9/21/04 15:42	6.1536	1.069
9/21/04 9:34	0.0151	10.944	9/21/04 14:21	4.8037	1.961	9/21/04 15:43	6.1703	1.007
9/21/04 9:34	0.0160	11.154	9/21/04 14:25	4.8578	1.963	9/21/04 15:44	6.1869	0.953
9/21/04 9:34	0.0171	11.357	9/21/04 14:31	4.9703	1.963	9/21/04 15:45	6.2036	0.902
9/21/04 9:34	0.0181	11.032	9/21/04 14:41	5.1370	1.959	9/21/04 15:46	6.2092	0.886
9/21/04 9:34	0.0193	10.884	9/21/04 14:51	5.3037	1.959	9/21/04 15:47	6.2258	0.845
9/21/04 9:34	0.0205	10.958	9/21/04 15:01	5.4703	1.950	9/21/04 15:49	6.2592	0.790
9/21/04 9:34	0.0218	10.929	9/21/04 15:11	5.6370	1.939	9/21/04 15:52	6.3147	0.740
9/21/04 9:34	0.0232	10.843	9/21/04 15:21	5.8037	1.935	9/21/04 15:55	6.3703	0.690
9/21/04 9:35	0.0247	10.776	9/21/04 15:31	5.9703	1.924	9/21/04 15:56	6.3758	0.690
9/21/04 9:35	0.0263	10.783	9/21/04 15:40	6.1162	1.905	9/21/04 15:59	6.4369	0.639
9/21/04 9:35	0.0279	10.771	9/21/04 15:40	6.1203	1.847	9/21/04 16:04	6.5147	0.589
9/21/04 9:35	0.0296	10.770	9/21/04 15:41	6.1245	1.761	9/21/04 16:06	6.5425	0.580
9/21/04 9:35	0.0315	10.904	9/21/04 15:41	6.1287	1.673	9/21/04 16:11	6.6314	0.539
9/21/04 9:35	0.0334	10.804	9/21/04 15:41	6.1328	1.591	9/21/04 16:16	6.7092	0.502
9/21/04 9:35	0.0355	10.692	9/21/04 15:41	6.1370	1.520	9/21/04 16:17	6.7258	0.489
9/21/04 9:35	0.0377	10.832	9/21/04 15:42	6.1412	1.454	9/21/04 16:26	6.8758	0.477
9/21/04 9:35	0.0400	10.834	9/21/04 15:42	6.1453	1.398	9/21/04 16:36	7.0425	0.454
9/21/04 9:36	0.0425	10.706	9/21/04 15:42	6.1495	1.346	9/21/04 16:37	7.0647	0.438
9/21/04 9:36	0.0451	10.892	9/21/04 15:43	6.1578	1.260	9/21/04 16:45	7.1981	0.386
9/21/04 9:36	0.0479	10.798	9/21/04 15:43	6.1662	1.189	9/21/04 16:46	7.2092	0.379
9/21/04 9:36	0.0508	10.820	9/21/04 15:44	6.1745	1.129	9/21/04 16:56	7.3758	0.351
9/21/04 9:36	0.0539	10.877	9/21/04 15:44	6.1828	1.078	9/21/04 17:01	7.4592	0.331
9/21/04 9:37	0.0573	10.934	9/21/04 15:45	6.1953	1.013	9/21/04 17:06	7.5425	0.294
9/21/04 9:37	0.0608	10.825	9/21/04 15:46	6.2078	0.959	9/21/04 17:08	7.5814	0.278
9/21/04 9:37	0.0644	10.818	9/21/04 15:47	6.2245	0.904	9/21/04 17:16	7.7092	0.242
9/21/04 9:37	0.0684	10.965	9/21/04 15:48	6.2453	0.846	9/21/04 17:18	7.7536	0.228
9/21/04 9:37	0.0725	10.840	9/21/04 15:49	6.2703	0.788	9/21/04 17:26	7.8758	0.194
9/21/04 9:38	0.0769	10.804	9/21/04 15:51	6.2995	0.736	9/21/04 17:30	7.9425	0.178
9/21/04 9:38	0.0816	10.828	9/21/04 15:51	6.3037	0.732	9/21/04 17:36	8.0425	0.164
9/21/04 9:38	0.0865	10.877	9/21/04 15:53	6.3370	0.683	9/21/04 17:43	8.1703	0.127

P-1 Pumping

P-2 Observation

P-3 Observation

Date/Time	Elapsed Time (Hours)	Drawdown (feet)	Date/Time	Elapsed Time (Hours)	Drawdown (feet)	Date/Time	Elapsed Time (Hours)	Drawdown (feet)
9/21/04 9:39	0.0917	10.835	9/21/04 15:56	6.3828	0.631	9/21/04 17:46	8.2092	0.121
9/21/04 9:39	0.0973	10.937	9/21/04 16:00	6.4412	0.577	9/21/04 17:56	8.3758	0.082
9/21/04 9:39	0.1031	10.883	9/21/04 16:01	6.4703	0.556	9/21/04 17:57	8.3981	0.077
9/21/04 9:40	0.1093	10.946	9/21/04 16:04	6.5120	0.526	9/21/04 18:06	8.5425	0.054
9/21/04 9:40	0.1159	10.853	9/21/04 16:09	6.6037	0.474	9/21/04 18:11	8.6369	0.027
9/21/04 9:40	0.1229	10.972	9/21/04 16:11	6.6370	0.457	9/21/04 18:16	8.7092	0.015
9/21/04 9:41	0.1303	11.014	9/21/04 16:16	6.7162	0.422			
9/21/04 9:41	0.1381	10.938	9/21/04 16:21	6.8037	0.391		End of Data	
9/21/04 9:42	0.1464	11.012	9/21/04 16:25	6.8620	0.371			
9/21/04 9:42	0.1552	10.966	9/21/04 16:31	6.9703	0.339			
9/21/04 9:43	0.1645	10.901	9/21/04 16:36	7.0453	0.319			
9/21/04 9:44	0.1744	10.859	9/21/04 16:41	7.1370	0.298			
9/21/04 9:44	0.1848	10.928	9/21/04 16:51	7.2912	0.268			
9/21/04 9:45	0.1959	10.932	9/21/04 16:51	7.3037	0.263			
9/21/04 9:46	0.2076	11.000	9/21/04 17:01	7.4703	0.231			
9/21/04 9:46	0.2200	10.962	9/21/04 17:07	7.5620	0.216			
9/21/04 9:47	0.2332	10.899	9/21/04 17:11	7.6370	0.203			
9/21/04 9:48	0.2471	10.924	9/21/04 17:21	7.8037	0.177			
9/21/04 9:49	0.2619	10.901	9/21/04 17:27	7.8953	0.165			
9/21/04 9:50	0.2775	10.831	9/21/04 17:31	7.9703	0.156			
9/21/04 9:51	0.2941	10.893	9/21/04 17:41	8.1370	0.132			
9/21/04 9:52	0.3116	10.863	9/21/04 17:51	8.3037	0.113			
9/21/04 9:53	0.3302	10.865	9/21/04 17:52	8.3078	0.113			
9/21/04 9:54	0.3499	10.919	9/21/04 18:01	8.4703	0.093			
9/21/04 9:55	0.3708	10.879	9/21/04 18:11	8.6370	0.074			
9/21/04 9:57	0.3928	10.924	9/21/04 18:18	8.7412	0.061			
9/21/04 9:58	0.4163	10.931	9/21/04 18:21	8.8037	0.055			
9/21/04 10:00	0.4411	10.881	9/21/04 18:31	8.9703	0.040			
9/21/04 10:01	0.4673	10.929	9/21/04 18:41	9.1370	0.021			
9/21/04 10:03	0.4951	10.943	9/21/04 18:48	9.2412	0.010			
9/21/04 10:05	0.5246	10.938	9/21/04 18:51	9.3037	0.003			
9/21/04 10:06	0.5558	10.994						
9/21/04 10:08	0.5889	10.914						
9/21/04 10:11	0.6239	10.996						
9/21/04 10:13	0.6610	10.932						
9/21/04 10:15	0.7003	10.946						
9/21/04 10:18	0.7419	10.996						
9/21/04 10:20	0.7861	11.030						
9/21/04 10:23	0.8328	10.996						
9/21/04 10:26	0.8823	11.014						
9/21/04 10:29	0.9347	10.974						
9/21/04 10:32	0.9902	10.994						
9/21/04 10:36	1.0490	10.950						
9/21/04 10:40	1.1113	10.968						
9/21/04 10:44	1.1773	11.008						
9/21/04 10:48	1.2472	11.071						
9/21/04 10:52	1.3213	10.986						
9/21/04 10:57	1.3997	10.962						
9/21/04 11:02	1.4828	11.018						
9/21/04 11:07	1.5661	11.141						
9/21/04 11:12	1.6494	10.990						
9/21/04 11:17	1.7328	11.111						
9/21/04 11:22	1.8161	11.167						
9/21/04 11:24	1.8561	11.004						
9/21/04 11:24	1.8562	10.909						
9/21/04 11:24	1.8563	11.028						
9/21/04 11:24	1.8564	10.951						
9/21/04 11:24	1.8564	11.032						
9/21/04 11:24	1.8565	10.997						
9/21/04 11:24	1.8566	11.034						
9/21/04 11:24	1.8567	11.017						
9/21/04 11:24	1.8568	11.110						
9/21/04 11:24	1.8569	11.136						
9/21/04 11:24	1.8569	11.717						step 2
9/21/04 11:25	1.8570	11.586						
9/21/04 11:25	1.8571	11.727						
9/21/04 11:25	1.8572	12.043						
9/21/04 11:25	1.8573	12.007						
9/21/04 11:25	1.8574	12.160						
9/21/04 11:25	1.8574	12.342						
9/21/04 11:25	1.8575	12.382						
9/21/04 11:25	1.8576	12.688						
9/21/04 11:25	1.8577	12.940						
9/21/04 11:25	1.8578	13.128						
9/21/04 11:25	1.8579	13.464						
9/21/04 11:25	1.8580	13.728						
9/21/04 11:25	1.8581	13.992						
9/21/04 11:25	1.8582	14.341						
9/21/04 11:25	1.8583	14.690						
9/21/04 11:25	1.8584	14.962						
9/21/04 11:25	1.8586	15.248						
9/21/04 11:25	1.8587	15.542						
9/21/04 11:25	1.8589	15.744						
9/21/04 11:25	1.8590	16.026						
9/21/04 11:25	1.8592	16.244						
9/21/04 11:25	1.8594	16.414						
9/21/04 11:25	1.8596	16.611						
9/21/04 11:25	1.8598	16.902						
9/21/04 11:25	1.8600	17.026						
9/21/04 11:25	1.8603	17.212						
9/21/04 11:25	1.8605	17.343						
9/21/04 11:25	1.8608	17.442						
9/21/04 11:25	1.8610	17.512						
9/21/04 11:25	1.8614	17.679						
9/21/04 11:25	1.8617	17.840						
9/21/04 11:25	1.8620	17.905						
9/21/04 11:25	1.8623	17.979						

P-1 Pumping

P-2 Observation

P-3 Observation

Date/Time	Elapsed Time (Hours)	Drawdown (feet)	Date/Time	Elapsed Time (Hours)	Drawdown (feet)	Date/Time	Elapsed Time (Hours)	Drawdown (feet)
9/21/04 11:25	1.8627	18.100						
9/21/04 11:25	1.8631	18.083						
9/21/04 11:25	1.8635	18.085						
9/21/04 11:25	1.8639	18.181						
9/21/04 11:25	1.8644	18.195						
9/21/04 11:25	1.8649	18.233						
9/21/04 11:25	1.8654	18.126						
9/21/04 11:25	1.8659	17.924						
9/21/04 11:25	1.8665	17.898						
9/21/04 11:25	1.8671	17.765						
9/21/04 11:25	1.8677	17.746						
9/21/04 11:25	1.8684	17.655						
9/21/04 11:25	1.8691	17.677						
9/21/04 11:25	1.8699	17.679						
9/21/04 11:25	1.8707	17.580						
9/21/04 11:25	1.8716	17.602						
9/21/04 11:25	1.8725	17.574						
9/21/04 11:25	1.8735	17.575						
9/21/04 11:26	1.8745	17.849						
9/21/04 11:26	1.8756	18.024						
9/21/04 11:26	1.8767	18.097						
9/21/04 11:26	1.8780	18.172						
9/21/04 11:26	1.8793	18.137						
9/21/04 11:26	1.8807	18.119						
9/21/04 11:26	1.8821	18.156						
9/21/04 11:26	1.8837	18.190						
9/21/04 11:26	1.8853	18.122						
9/21/04 11:26	1.8871	18.116						
9/21/04 11:26	1.8889	18.167						
9/21/04 11:27	1.8909	18.133						
9/21/04 11:27	1.8929	18.200						
9/21/04 11:27	1.8951	18.225						
9/21/04 11:27	1.8975	18.198						
9/21/04 11:27	1.8999	18.208						
9/21/04 11:27	1.9025	18.213						
9/21/04 11:27	1.9053	18.284						
9/21/04 11:28	1.9083	18.138						
9/21/04 11:28	1.9114	18.271						
9/21/04 11:28	1.9147	18.241						
9/21/04 11:28	1.9182	18.236						
9/21/04 11:28	1.9219	18.287						
9/21/04 11:29	1.9258	18.233						
9/21/04 11:29	1.9299	18.305						
9/21/04 11:29	1.9343	18.292						
9/21/04 11:29	1.9390	18.288						
9/21/04 11:30	1.9439	18.310						
9/21/04 11:30	1.9492	18.276						
9/21/04 11:30	1.9547	18.385						
9/21/04 11:31	1.9605	18.341						
9/21/04 11:31	1.9668	18.337						
9/21/04 11:31	1.9734	18.379						
9/21/04 11:32	1.9803	18.351						
9/21/04 11:32	1.9877	18.337						
9/21/04 11:33	1.9955	18.367						
9/21/04 11:33	2.0039	18.333						
9/21/04 11:34	2.0126	18.329						
9/21/04 11:34	2.0219	18.353						
9/21/04 11:35	2.0318	18.373						
9/21/04 11:36	2.0422	18.317						
9/21/04 11:36	2.0533	18.371						
9/21/04 11:37	2.0650	18.389						
9/21/04 11:38	2.0774	18.345						
9/21/04 11:39	2.0906	18.391						
9/21/04 11:39	2.1045	18.406						
9/21/04 11:40	2.1193	18.400						
9/21/04 11:41	2.1349	18.410						
9/21/04 11:42	2.1515	18.351						
9/21/04 11:43	2.1690	18.387						
9/21/04 11:44	2.1876	18.430						
9/21/04 11:46	2.2073	18.389						
9/21/04 11:47	2.2282	18.343						
9/21/04 11:48	2.2503	18.385						
9/21/04 11:50	2.2737	18.391						
9/21/04 11:51	2.2985	18.331						
9/21/04 11:53	2.3247	18.371						
9/21/04 11:54	2.3525	18.395						
9/21/04 11:56	2.3820	18.325						
9/21/04 11:58	2.4132	18.373						
9/21/04 12:00	2.4463	18.543						
9/21/04 12:02	2.4813	18.426						
9/21/04 12:04	2.5184	18.381						
9/21/04 12:07	2.5577	18.404						
9/21/04 12:09	2.5994	18.440						
9/21/04 12:12	2.6435	18.474						
9/21/04 12:14	2.6902	18.420						
9/21/04 12:17	2.7397	18.466						
9/21/04 12:21	2.7921	18.476						
9/21/04 12:24	2.8476	18.504						
9/21/04 12:27	2.9064	18.508						
9/21/04 12:30	2.9433	18.430						
9/21/04 12:30	2.9434	18.512						
9/21/04 12:30	2.9435	18.508						
9/21/04 12:30	2.9436	18.566						
9/21/04 12:30	2.9436	18.516						
9/21/04 12:30	2.9437	18.534						
9/21/04 12:30	2.9438	18.502						
9/21/04 12:30	2.9439	18.503						

P-1 Pumping

P-2 Observation

P-3 Observation

Date/Time	Elapsed Time (Hours)	Drawdown (feet)		Date/Time	Elapsed Time (Hours)	Drawdown (feet)		Date/Time	Elapsed Time (Hours)	Drawdown (feet)
9/21/04 12:30	2.9440	18.481								
9/21/04 12:30	2.9441	18.578								
9/21/04 12:30	2.9441	18.550								
9/21/04 12:30	2.9442	18.525								
9/21/04 12:30	2.9443	18.634								
9/21/04 12:30	2.9444	18.550								
9/21/04 12:30	2.9445	18.493								
9/21/04 12:30	2.9446	18.594								
9/21/04 12:30	2.9446	18.535								
9/21/04 12:30	2.9447	18.600								
9/21/04 12:30	2.9448	18.533								
9/21/04 12:30	2.9449	18.715	step 3							
9/21/04 12:30	2.9450	18.954								
9/21/04 12:30	2.9451	19.088								
9/21/04 12:30	2.9452	19.327								
9/21/04 12:30	2.9453	19.394								
9/21/04 12:30	2.9454	19.809								
9/21/04 12:30	2.9455	19.948								
9/21/04 12:30	2.9456	20.220								
9/21/04 12:30	2.9458	20.692								
9/21/04 12:30	2.9459	21.170								
9/21/04 12:30	2.9461	21.617								
9/21/04 12:30	2.9462	22.047								
9/21/04 12:30	2.9464	22.395								
9/21/04 12:30	2.9466	22.784								
9/21/04 12:30	2.9468	23.101								
9/21/04 12:30	2.9470	23.389								
9/21/04 12:30	2.9472	23.681								
9/21/04 12:30	2.9475	23.937								
9/21/04 12:30	2.9477	24.215								
9/21/04 12:30	2.9480	24.416								
9/21/04 12:30	2.9482	24.648								
9/21/04 12:30	2.9486	24.978								
9/21/04 12:30	2.9489	25.188								
9/21/04 12:30	2.9492	25.349								
9/21/04 12:30	2.9495	25.545								
9/21/04 12:30	2.9499	25.589								
9/21/04 12:30	2.9503	25.660								
9/21/04 12:30	2.9507	25.792								
9/21/04 12:30	2.9511	26.100								
9/21/04 12:30	2.9516	26.133								
9/21/04 12:30	2.9521	26.349								
9/21/04 12:30	2.9526	26.372								
9/21/04 12:30	2.9531	26.311								
9/21/04 12:30	2.9537	26.125								
9/21/04 12:30	2.9543	26.133								
9/21/04 12:30	2.9549	26.580								
9/21/04 12:30	2.9556	27.105								
9/21/04 12:30	2.9563	27.489								
9/21/04 12:31	2.9571	27.560								
9/21/04 12:31	2.9579	27.305								
9/21/04 12:31	2.9588	27.013								
9/21/04 12:31	2.9597	26.808								
9/21/04 12:31	2.9607	27.534								
9/21/04 12:31	2.9617	27.888								
9/21/04 12:31	2.9628	27.932								
9/21/04 12:31	2.9639	27.873								
9/21/04 12:31	2.9652	27.703								
9/21/04 12:31	2.9665	27.623								
9/21/04 12:31	2.9679	27.534								
9/21/04 12:31	2.9693	27.504								
9/21/04 12:31	2.9709	27.506								
9/21/04 12:31	2.9725	27.489								
9/21/04 12:32	2.9743	27.526								
9/21/04 12:32	2.9761	27.465								
9/21/04 12:32	2.9781	27.512								
9/21/04 12:32	2.9801	27.509								
9/21/04 12:32	2.9823	27.528								
9/21/04 12:32	2.9847	27.525								
9/21/04 12:32	2.9871	27.544								
9/21/04 12:32	2.9897	27.556								
9/21/04 12:33	2.9925	27.549								
9/21/04 12:33	2.9955	27.622								
9/21/04 12:33	2.9986	27.623								
9/21/04 12:33	3.0019	27.577								
9/21/04 12:33	3.0054	27.627								
9/21/04 12:34	3.0091	27.603								
9/21/04 12:34	3.0130	27.590								
9/21/04 12:34	3.0171	27.580								
9/21/04 12:34	3.0215	27.580								
9/21/04 12:35	3.0262	27.568								
9/21/04 12:35	3.0311	27.611								
9/21/04 12:35	3.0364	27.621								
9/21/04 12:36	3.0419	27.653								
9/21/04 12:36	3.0477	27.631								
9/21/04 12:36	3.0540	27.573								
9/21/04 12:37	3.0606	27.579								
9/21/04 12:37	3.0675	27.643								
9/21/04 12:38	3.0749	27.652								
9/21/04 12:38	3.0827	27.621								
9/21/04 12:39	3.0911	27.603								
9/21/04 12:39	3.0998	27.637								
9/21/04 12:40	3.1091	27.662								
9/21/04 12:40	3.1190	27.583								
9/21/04 12:41	3.1294	27.623								
9/21/04 12:42	3.1405	27.637								
9/21/04 12:42	3.1522	27.678								

P-1 Pumping

P-2 Observation

P-3 Observation

Date/Time	Elapsed Time (Hours)	Drawdown (feet)	Date/Time	Elapsed Time (Hours)	Drawdown (feet)	Date/Time	Elapsed Time (Hours)	Drawdown (feet)
9/21/04 12:43	3.1646	27.636						
9/21/04 12:44	3.1778	27.662						
9/21/04 12:45	3.1917	27.634						
9/21/04 12:45	3.2065	27.690						
9/21/04 12:46	3.2221	27.634						
9/21/04 12:47	3.2387	27.610						
9/21/04 12:48	3.2562	27.604						
9/21/04 12:50	3.2748	27.563						
9/21/04 12:51	3.2945	27.644						
9/21/04 12:52	3.3154	27.618						
9/21/04 12:53	3.3375	27.654						
9/21/04 12:55	3.3609	27.630						
9/21/04 12:56	3.3857	27.676						
9/21/04 12:58	3.4119	27.674						
9/21/04 12:59	3.4397	27.690						
9/21/04 13:01	3.4692	27.662						
9/21/04 13:03	3.5004	27.652						
9/21/04 13:05	3.5335	27.658						
9/21/04 13:07	3.5685	27.707						
9/21/04 13:09	3.6056	27.572						
9/21/04 13:12	3.6449	27.773						
9/21/04 13:14	3.6866	27.745						
9/21/04 13:17	3.7307	27.789						
9/21/04 13:20	3.7774	27.755						
9/21/04 13:23	3.8269	27.809						
9/21/04 13:26	3.8793	27.680						
9/21/04 13:29	3.9348	27.694						
9/21/04 13:33	3.9936	27.731						
09/21/2004 13:34	4.0099	27.739						
09/21/2004 13:34	4.0100	27.773						
09/21/2004 13:34	4.0101	27.748						
09/21/2004 13:34	4.0102	27.722						
09/21/2004 13:34	4.0102	27.740						
09/21/2004 13:34	4.0103	27.736						
09/21/2004 13:34	4.0104	27.682						
09/21/2004 13:34	4.0105	27.772						
09/21/2004 13:34	4.0106	27.742						
09/21/2004 13:34	4.0107	27.706						
09/21/2004 13:34	4.0107	27.756						
09/21/2004 13:34	4.0108	27.738						
09/21/2004 13:34	4.0109	27.766						
09/21/2004 13:34	4.0110	27.728						
09/21/2004 13:34	4.0111	27.760						
09/21/2004 13:34	4.0112	27.724						
09/21/2004 13:34	4.0112	27.750						
09/21/2004 13:34	4.0113	27.710						
09/21/2004 13:34	4.0114	27.667						
09/21/2004 13:34	4.0115	27.709						
09/21/2004 13:34	4.0116	27.727						
09/21/2004 13:34	4.0117	27.748						
09/21/2004 13:34	4.0118	27.737						
09/21/2004 13:34	4.0119	27.756						
09/21/2004 13:34	4.0120	27.725						
09/21/2004 13:34	4.0121	27.737						
09/21/2004 13:34	4.0122	27.703						
09/21/2004 13:34	4.0124	27.788	step 4					
09/21/2004 13:34	4.0125	28.006						
09/21/2004 13:34	4.0127	28.201						
09/21/2004 13:34	4.0129	28.632						
09/21/2004 13:34	4.0130	29.180						
09/21/2004 13:34	4.0132	29.892						
09/21/2004 13:34	4.0134	30.770						
09/21/2004 13:34	4.0136	31.536						
09/21/2004 13:34	4.0138	32.438						
09/21/2004 13:34	4.0141	33.117						
09/21/2004 13:34	4.0143	33.867						
09/21/2004 13:34	4.0146	34.487						
09/21/2004 13:34	4.0149	35.105						
09/21/2004 13:34	4.0151	35.647						
09/21/2004 13:34	4.0155	36.051						
09/21/2004 13:34	4.0158	36.292						
09/21/2004 13:34	4.0161	36.459						
09/21/2004 13:34	4.0165	36.599						
09/21/2004 13:34	4.0169	36.594						
09/21/2004 13:34	4.0173	36.596						
09/21/2004 13:34	4.0177	36.532						
09/21/2004 13:34	4.0182	36.435						
09/21/2004 13:34	4.0186	36.315						
09/21/2004 13:34	4.0191	36.086						
09/21/2004 13:34	4.0197	35.888						
09/21/2004 13:34	4.0203	35.619						
09/21/2004 13:34	4.0209	35.498						
09/21/2004 13:34	4.0215	35.390						
09/21/2004 13:34	4.0222	35.316						
09/21/2004 13:34	4.0229	35.288						
09/21/2004 13:35	4.0237	35.362						
09/21/2004 13:35	4.0245	35.338						
09/21/2004 13:35	4.0254	35.385						
09/21/2004 13:35	4.0263	35.400						
09/21/2004 13:35	4.0273	35.382						
09/21/2004 13:35	4.0283	35.375						
09/21/2004 13:35	4.0294	35.426						
09/21/2004 13:35	4.0305	35.439						
09/21/2004 13:35	4.0318	35.423						
09/21/2004 13:35	4.0331	35.400						
09/21/2004 13:35	4.0345	35.465						
09/21/2004 13:35	4.0359	35.445						

P-1 Pumping

P-2 Observation

P-3 Observation

Date/Time	Elapsed Time (Hours)	Drawdown (feet)	Date/Time	Elapsed Time (Hours)	Drawdown (feet)	Date/Time	Elapsed Time (Hours)	Drawdown (feet)
09/21/2004 13:35	4.0375	35.403						
09/21/2004 13:35	4.0391	35.382						
09/21/2004 13:36	4.0409	35.392						
09/21/2004 13:36	4.0427	35.864						
09/21/2004 13:36	4.0446	35.212						
09/21/2004 13:36	4.0467	34.960						
09/21/2004 13:36	4.0489	34.872						
09/21/2004 13:36	4.0513	34.815						
09/21/2004 13:36	4.0537	34.848						
09/21/2004 13:36	4.0563	34.810						
09/21/2004 13:37	4.0591	34.798						
09/21/2004 13:37	4.0621	34.827						
09/21/2004 13:37	4.0652	34.807						
09/21/2004 13:37	4.0685	34.779						
09/21/2004 13:37	4.0720	34.787						
09/21/2004 13:38	4.0757	34.765						
09/21/2004 13:38	4.0796	34.769						
09/21/2004 13:38	4.0837	34.789						
09/21/2004 13:38	4.0881	34.776						
09/21/2004 13:39	4.0928	34.862						
09/21/2004 13:39	4.0977	34.886						
09/21/2004 13:39	4.1030	34.852						
09/21/2004 13:40	4.1085	34.927						
09/21/2004 13:40	4.1143	34.945						
09/21/2004 13:40	4.1206	34.900						
09/21/2004 13:41	4.1271	34.965						
09/21/2004 13:41	4.1341	34.981						
09/21/2004 13:42	4.1415	34.969						
09/21/2004 13:42	4.1493	34.963						
09/21/2004 13:43	4.1576	34.986						
09/21/2004 13:43	4.1664	34.957						
09/21/2004 13:44	4.1757	34.977						
09/21/2004 13:44	4.1856	34.979						
09/21/2004 13:45	4.1960	34.931						
09/21/2004 13:46	4.2071	34.931						
09/21/2004 13:46	4.2188	34.983						
09/21/2004 13:47	4.2312	34.996						
09/21/2004 13:48	4.2444	34.969						
09/21/2004 13:49	4.2583	34.955						
09/21/2004 13:49	4.2731	35.018						
09/21/2004 13:50	4.2887	35.008						
09/21/2004 13:51	4.3053	35.032						
09/21/2004 13:52	4.3228	35.072						
09/21/2004 13:54	4.3414	35.020						
09/21/2004 13:55	4.3611	35.030						
09/21/2004 13:56	4.3820	34.699						
09/21/2004 13:57	4.4041	34.577						
09/21/2004 13:59	4.4275	34.464						
09/21/2004 14:00	4.4523	34.597						
09/21/2004 14:02	4.4785	34.595						
09/21/2004 14:03	4.5063	34.605						
09/21/2004 14:05	4.5358	34.589						
09/21/2004 14:07	4.5670	34.563						
09/21/2004 14:09	4.6001	34.518						
09/21/2004 14:11	4.6351	34.569						
09/21/2004 14:13	4.6722	34.562						
09/21/2004 14:16	4.7115	34.554						
09/21/2004 14:18	4.7532	34.633						
09/21/2004 14:21	4.7973	34.623						
09/21/2004 14:24	4.8440	34.571						
09/21/2004 14:27	4.8935	34.651						
09/21/2004 14:30	4.9459	34.464						
09/21/2004 14:33	5.0014	34.357						
09/21/2004 14:37	5.0602	34.415						
09/21/2004 14:40	5.1225	34.383						
09/21/2004 14:44	5.1885	34.351						
09/21/2004 14:49	5.2584	34.413						
09/21/2004 14:53	5.3325	34.391						
09/21/2004 14:58	5.4109	34.419						
09/21/2004 15:03	5.4940	34.424						
09/21/2004 15:08	5.5773	34.422						
09/21/2004 15:13	5.6607	34.401						
09/21/2004 15:18	5.7440	34.419						
09/21/2004 15:23	5.8273	34.405						
09/21/2004 15:28	5.9107	34.397						
09/21/2004 15:33	5.9940	34.379						
09/21/2004 15:38	6.0773	34.389						
09/21/2004 15:39	6.1015	34.399						
09/21/2004 15:39	6.1016	34.369						
09/21/2004 15:39	6.1017	34.355						
09/21/2004 15:39	6.1018	34.367						
09/21/2004 15:39	6.1018	34.348						
09/21/2004 15:39	6.1019	34.334						
09/21/2004 15:39	6.1020	34.387						
09/21/2004 15:39	6.1021	34.358						
09/21/2004 15:39	6.1022	34.356						
09/21/2004 15:39	6.1023	34.344						
09/21/2004 15:39	6.1023	34.350						
09/21/2004 15:39	6.1024	34.320						
09/21/2004 15:39	6.1025	34.374						
09/21/2004 15:39	6.1026	34.368						
09/21/2004 15:39	6.1027	34.366						
09/21/2004 15:39	6.1028	34.376						
09/21/2004 15:39	6.1028	34.346						
09/21/2004 15:39	6.1029	34.384						
09/21/2004 15:39	6.1030	34.372						
09/21/2004 15:39	6.1031	34.330						

P-1 Pumping

P-2 Observation

P-3 Observation

Date/Time	Elapsed Time (Hours)	Drawdown (feet)		Date/Time	Elapsed Time (Hours)	Drawdown (feet)		Date/Time	Elapsed Time (Hours)	Drawdown (feet)
09/21/2004 15:39	6.1032	34.366								
09/21/2004 15:39	6.1033	34.380								
09/21/2004 15:39	6.1034	34.354								
09/21/2004 15:39	6.1035	34.398								
09/21/2004 15:39	6.1036	34.400								
09/21/2004 15:39	6.1037	34.406								
09/21/2004 15:39	6.1038	34.384								
09/21/2004 15:39	6.1040	34.316								
09/21/2004 15:39	6.1041	34.386								
09/21/2004 15:39	6.1043	34.388								
09/21/2004 15:39	6.1045	34.384								
09/21/2004 15:39	6.1046	34.374								
09/21/2004 15:39	6.1048	34.382								
09/21/2004 15:39	6.1050	34.384								
09/21/2004 15:39	6.1052	34.370								
09/21/2004 15:39	6.1054	34.398								
09/21/2004 15:39	6.1057	34.400								
09/21/2004 15:39	6.1059	34.400								
09/21/2004 15:39	6.1062	34.386								
09/21/2004 15:39	6.1065	34.378								
09/21/2004 15:40	6.1067	34.384								
09/21/2004 15:40	6.1071	34.362								
09/21/2004 15:40	6.1074	34.381								
09/21/2004 15:40	6.1077	34.390								
09/21/2004 15:40	6.1081	34.376								
09/21/2004 15:40	6.1085	34.391								
09/21/2004 15:40	6.1089	34.394								
09/21/2004 15:40	6.1093	34.401								
09/21/2004 15:40	6.1098	34.389								
09/21/2004 15:40	6.1102	34.395								
09/21/2004 15:40	6.1107	34.399								
09/21/2004 15:40	6.1113	34.362	pump off							
09/21/2004 15:40	6.1119	25.628	recovery							
09/21/2004 15:40	6.1125	14.450								
09/21/2004 15:40	6.1131	6.374								
09/21/2004 15:40	6.1138	1.736								
09/21/2004 15:40	6.1145	0.602								
09/21/2004 15:40	6.1153	1.543								
09/21/2004 15:40	6.1161	2.305								
09/21/2004 15:40	6.1170	2.478								
09/21/2004 15:40	6.1179	2.518								
09/21/2004 15:40	6.1189	2.393								
09/21/2004 15:40	6.1199	2.335								
09/21/2004 15:40	6.1210	2.212								
09/21/2004 15:40	6.1221	2.147								
09/21/2004 15:41	6.1234	2.060								
09/21/2004 15:41	6.1247	1.980								
09/21/2004 15:41	6.1261	1.923								
09/21/2004 15:41	6.1275	1.855								
09/21/2004 15:41	6.1291	1.788								
09/21/2004 15:41	6.1307	1.732								
09/21/2004 15:41	6.1325	1.681								
09/21/2004 15:41	6.1343	1.633								
09/21/2004 15:41	6.1362	1.586								
09/21/2004 15:41	6.1383	1.540								
09/21/2004 15:42	6.1405	1.496								
09/21/2004 15:42	6.1429	1.455								
09/21/2004 15:42	6.1453	1.415								
09/21/2004 15:42	6.1479	1.381								
09/21/2004 15:42	6.1507	1.343								
09/21/2004 15:42	6.1537	1.308								
09/21/2004 15:43	6.1568	1.274								
09/21/2004 15:43	6.1601	1.244								
09/21/2004 15:43	6.1636	1.212								
09/21/2004 15:43	6.1673	1.185								
09/21/2004 15:43	6.1712	1.153								
09/21/2004 15:44	6.1753	1.125								
09/21/2004 15:44	6.1797	1.101								
09/21/2004 15:44	6.1844	1.075								
09/21/2004 15:44	6.1893	1.051								
09/21/2004 15:45	6.1946	1.030								
09/21/2004 15:45	6.2001	1.007								
09/21/2004 15:45	6.2059	0.983								
09/21/2004 15:46	6.2122	0.962								
09/21/2004 15:46	6.2187	0.939								
09/21/2004 15:47	6.2257	0.922								
09/21/2004 15:47	6.2331	0.899								
09/21/2004 15:48	6.2409	0.880								
09/21/2004 15:48	6.2492	0.862								
09/21/2004 15:49	6.2580	0.842								
09/21/2004 15:49	6.2673	0.825								
09/21/2004 15:50	6.2772	0.806								
09/21/2004 15:50	6.2876	0.789								
09/21/2004 15:51	6.2987	0.771								
09/21/2004 15:52	6.3104	0.751								
09/21/2004 15:52	6.3228	0.736								
09/21/2004 15:53	6.3360	0.719								
09/21/2004 15:54	6.3499	0.702								
09/21/2004 15:55	6.3647	0.688								
09/21/2004 15:56	6.3803	0.669								
09/21/2004 15:57	6.3969	0.653								
09/21/2004 15:58	6.4144	0.636								
09/21/2004 15:59	6.4330	0.621								
09/21/2004 16:00	6.4527	0.606								
09/21/2004 16:02	6.4736	0.590								
09/21/2004 16:03	6.4957	0.574								
09/21/2004 16:04	6.5191	0.559								

P-1 Pumping

P-2 Observation

P-3 Observation

Date/Time	Elapsed Time (Hours)	Drawdown (feet)	Date/Time	Elapsed Time (Hours)	Drawdown (feet)	Date/Time	Elapsed Time (Hours)	Drawdown (feet)
09/21/2004 16:06	6.5439	0.542						
09/21/2004 16:07	6.5701	0.528						
09/21/2004 16:09	6.5979	0.512						
09/21/2004 16:11	6.6274	0.496						
09/21/2004 16:13	6.6586	0.483						
09/21/2004 16:15	6.6917	0.468						
09/21/2004 16:17	6.7267	0.453						
09/21/2004 16:19	6.7638	0.438						
09/21/2004 16:21	6.8031	0.424						
09/21/2004 16:24	6.8448	0.409						
09/21/2004 16:26	6.8889	0.395						
09/21/2004 16:29	6.9356	0.380						
09/21/2004 16:32	6.9851	0.368						
09/21/2004 16:35	7.0375	0.352						
09/21/2004 16:39	7.0930	0.340						
09/21/2004 16:42	7.1518	0.325						
09/21/2004 16:46	7.2141	0.311						
09/21/2004 16:50	7.2801	0.298						
09/21/2004 16:54	7.3500	0.282						
09/21/2004 16:59	7.4241	0.266						
09/21/2004 17:03	7.5025	0.254						
09/21/2004 17:08	7.5856	0.239						
09/21/2004 17:13	7.6689	0.221						
09/21/2004 17:18	7.7523	0.209						
09/21/2004 17:23	7.8356	0.197						
09/21/2004 17:28	7.9189	0.185						
09/21/2004 17:33	8.0023	0.172						
09/21/2004 17:38	8.0856	0.161						
09/21/2004 17:43	8.1689	0.151						
09/21/2004 17:48	8.2523	0.143						
09/21/2004 17:53	8.3356	0.132						
09/21/2004 17:58	8.4189	0.121						
09/21/2004 18:03	8.5023	0.111						
09/21/2004 18:08	8.5856	0.099						
09/21/2004 18:13	8.6689	0.091						
09/21/2004 18:18	8.7523	0.081						
09/21/2004 18:23	8.8356	0.073						
09/21/2004 18:28	8.9189	0.065						
09/21/2004 18:33	9.0023	0.057						
09/21/2004 18:38	9.0856	0.047						
09/21/2004 18:43	9.1689	0.037						
09/21/2004 18:48	9.2523	0.031						
09/21/2004 18:53	9.3356	0.022						
09/21/2004 18:58	9.4189	0.012						
09/21/2004 19:03	9.5023	0.003						
End of Data								

P-2 Pumping

P-1 Observation

P-3 Observation

P-2 Pumping			P-1 Observation			P-3 Observation		
Date/Time	Elapsed Time (Hours)	Drawdown (feet)	Date/Time	Elapsed Time (Hours)	Drawdown (feet)	Date/Time	Elapsed Time (Hours)	Drawdown (feet)
9/24/04 9:50	0.0000	0.505	9/24/04 9:25	-0.4158	0.000	9/24/04 9:16	-0.5695	0.021
9/24/04 9:50	0.0001	3.611	9/24/04 9:30	-0.3325	0.010	9/24/04 9:17	-0.5486	-0.050
9/24/04 9:50	0.0003	12.113	9/24/04 9:35	-0.2492	0.018	9/24/04 9:21	-0.4861	-0.048
9/24/04 9:50	0.0004	6.523	9/24/04 9:40	-0.1658	0.026	9/24/04 9:26	-0.4028	-0.039
9/24/04 9:50	0.0006	8.132	9/24/04 9:45	-0.0825	0.036	9/24/04 9:31	-0.3195	-0.032
9/24/04 9:50	0.0007	11.134	9/24/04 9:50	0.0008	0.044	9/24/04 9:36	-0.2361	-0.023
9/24/04 9:50	0.0009	13.449	9/24/04 9:50	0.0050	0.059	9/24/04 9:41	-0.1528	-0.016
9/24/04 9:50	0.0011	15.924	9/24/04 9:51	0.0133	0.155	9/24/04 9:46	-0.0695	-0.006
9/24/04 9:50	0.0013	18.009	9/24/04 9:51	0.0217	0.218	9/24/04 9:50	-0.0028	0.000
9/24/04 9:50	0.0015	19.059	9/24/04 9:52	0.0342	0.276	9/24/04 9:51	0.0139	0.023
9/24/04 9:50	0.0017	20.188	9/24/04 9:53	0.0550	0.337	9/24/04 9:51	0.0222	0.067
9/24/04 9:50	0.0020	20.674	9/24/04 9:55	0.0842	0.393	9/24/04 9:52	0.0347	0.122
9/24/04 9:50	0.0022	20.403	9/24/04 9:55	0.0883	0.399	9/24/04 9:53	0.0514	0.174
9/24/04 9:50	0.0025	19.863	9/24/04 9:58	0.1342	0.452	9/24/04 9:54	0.0722	0.224
9/24/04 9:50	0.0027	18.697	9/24/04 10:00	0.1675	0.480	9/24/04 9:56	0.0972	0.266
9/24/04 9:50	0.0030	18.033	9/24/04 10:02	0.2050	0.506	9/24/04 9:56	0.1056	0.282
9/24/04 9:50	0.0033	16.985	9/24/04 10:05	0.2508	0.532	9/24/04 9:59	0.1514	0.334
9/24/04 9:50	0.0037	16.282	9/24/04 10:08	0.3092	0.558	9/24/04 10:01	0.1806	0.359
9/24/04 9:50	0.0040	15.639	9/24/04 10:10	0.3342	0.565	9/24/04 10:03	0.2139	0.384
9/24/04 9:50	0.0044	15.046	9/24/04 10:15	0.4175	0.591	9/24/04 10:06	0.2639	0.414
9/24/04 9:50	0.0048	14.667	9/24/04 10:19	0.4800	0.609	9/24/04 10:08	0.3056	0.435
9/24/04 9:50	0.0052	14.353	9/24/04 10:20	0.5008	0.615	9/24/04 10:11	0.3472	0.453
9/24/04 9:50	0.0056	14.028	9/24/04 10:25	0.5842	0.635	9/24/04 10:16	0.4306	0.478
9/24/04 9:50	0.0061	13.918	9/24/04 10:30	0.6675	0.651	9/24/04 10:17	0.4472	0.485
9/24/04 9:50	0.0065	13.765	9/24/04 10:32	0.7092	0.661	9/24/04 10:21	0.5139	0.501
9/24/04 9:50	0.0070	13.624	9/24/04 10:35	0.7508	0.671	9/24/04 10:26	0.5972	0.519
9/24/04 9:50	0.0076	13.041	9/24/04 10:40	0.8342	0.690	9/24/04 10:29	0.6597	0.535
9/24/04 9:50	0.0081	12.189	9/24/04 10:45	0.9175	0.704	9/24/04 10:31	0.6806	0.542
9/24/04 9:50	0.0088	11.428	9/24/04 10:47	0.9550	0.712	9/24/04 10:36	0.7639	0.567
9/24/04 9:50	0.0094	10.763	9/24/04 10:50	1.0008	0.718	9/24/04 10:40	0.8347	0.586
9/24/04 9:50	0.0101	9.806	9/24/04 10:55	1.0842	0.730	9/24/04 10:41	0.8472	0.586
9/24/04 9:50	0.0108	9.204	9/24/04 11:00	1.1675	0.740	9/24/04 10:46	0.9306	0.602
9/24/04 9:50	0.0116	8.823	9/24/04 11:05	1.2508	0.752	9/24/04 10:51	1.0139	0.613
9/24/04 9:50	0.0124	8.833	9/24/04 11:10	1.3342	0.762	9/24/04 10:56	1.0972	0.627
9/24/04 9:51	0.0133	8.850	9/24/04 11:10	1.3425	0.764	9/24/04 11:00	1.1722	0.636
9/24/04 9:51	0.0142	8.798	9/24/04 11:15	1.4175	0.772	9/24/04 11:01	1.1806	0.638
9/24/04 9:51	0.0151	8.814	9/24/04 11:20	1.5008	0.782	9/24/04 11:06	1.2639	0.647
9/24/04 9:51	0.0162	8.571	9/24/04 11:25	1.5842	0.792	9/24/04 11:11	1.3472	0.657
9/24/04 9:51	0.0173	8.592	9/24/04 11:30	1.6675	0.802	9/24/04 11:16	1.4306	0.666
9/24/04 9:51	0.0184	8.310	9/24/04 11:35	1.7508	0.810	9/24/04 11:21	1.5139	0.677
9/24/04 9:51	0.0196	8.353	9/24/04 11:38	1.8008	0.815	9/24/04 11:26	1.5972	0.684
9/24/04 9:51	0.0209	8.447	9/24/04 11:40	1.8342	0.817	9/24/04 11:26	1.6056	0.686
9/24/04 9:51	0.0223	8.380	9/24/04 11:45	1.9175	0.827	9/24/04 11:31	1.6806	0.693
9/24/04 9:51	0.0238	8.302	9/24/04 11:50	2.0008	0.835	9/24/04 11:36	1.7639	0.702
9/24/04 9:51	0.0254	8.360	9/24/04 11:55	2.0842	0.877	9/24/04 11:41	1.8472	0.709
9/24/04 9:51	0.0270	8.437	9/24/04 11:55	2.0883	0.897	9/24/04 11:46	1.9306	0.716
9/24/04 9:51	0.0288	8.405	9/24/04 11:56	2.1008	0.948	9/24/04 11:51	2.0139	0.727
9/24/04 9:52	0.0306	8.245	9/24/04 11:57	2.1217	1.012	9/24/04 11:55	2.0847	0.737
9/24/04 9:52	0.0325	8.451	9/24/04 11:59	2.1592	1.064	9/24/04 11:56	2.0972	0.764
9/24/04 9:52	0.0346	8.400	9/24/04 12:00	2.1675	1.073	9/24/04 11:56	2.1056	0.787
9/24/04 9:52	0.0368	8.372	9/24/04 12:03	2.2217	1.117	9/24/04 11:58	2.1306	0.842
9/24/04 9:52	0.0391	8.537	9/24/04 12:05	2.2508	1.131	9/24/04 12:00	2.1639	0.892
9/24/04 9:52	0.0416	8.455	9/24/04 12:10	2.3342	1.167	9/24/04 12:01	2.1806	0.910
9/24/04 9:52	0.0442	8.530	9/24/04 12:10	2.3425	1.169	9/24/04 12:03	2.2222	0.942
9/24/04 9:53	0.0470	8.468	9/24/04 12:15	2.4175	1.196	9/24/04 12:06	2.2639	0.970
9/24/04 9:53	0.0499	8.420	9/24/04 12:20	2.5008	1.218	9/24/04 12:08	2.3097	0.993
9/24/04 9:53	0.0531	8.571	9/24/04 12:20	2.5092	1.220	9/24/04 12:11	2.3472	1.009
9/24/04 9:53	0.0564	8.545	9/24/04 12:25	2.5842	1.228	9/24/04 12:16	2.4306	1.043
9/24/04 9:53	0.0599	8.540	9/24/04 12:30	2.6675	1.238	9/24/04 12:16	2.4347	1.045
9/24/04 9:54	0.0636	8.514	9/24/04 12:35	2.7508	1.244	9/24/04 12:21	2.5139	1.066
9/24/04 9:54	0.0675	8.480	9/24/04 12:40	2.8342	1.254	9/24/04 12:26	2.5972	1.078
9/24/04 9:54	0.0716	8.484	9/24/04 12:45	2.9175	1.258	9/24/04 12:31	2.6806	1.084
9/24/04 9:54	0.0760	8.502	9/24/04 12:50	3.0008	1.268	9/24/04 12:36	2.7639	1.093
9/24/04 9:55	0.0807	8.576	9/24/04 12:51	3.0175	1.272	9/24/04 12:38	2.7972	1.096
9/24/04 9:55	0.0856	8.622	9/24/04 12:55	3.0842	1.280	9/24/04 12:41	2.8472	1.100
9/24/04 9:55	0.0908	8.439	9/24/04 12:58	3.1383	1.323	9/24/04 12:46	2.9306	1.103
9/24/04 9:56	0.0964	8.553	9/24/04 12:59	3.1508	1.375	9/24/04 12:51	3.0139	1.109
9/24/04 9:56	0.1022	8.536	9/24/04 13:00	3.1675	1.417	9/24/04 12:56	3.0972	1.121
9/24/04 9:56	0.1084	8.598	9/24/04 13:00	3.1758	1.431	9/24/04 12:59	3.1472	1.146
9/24/04 9:57	0.1150	8.534	9/24/04 13:03	3.2258	1.482	9/24/04 13:00	3.1722	1.196
9/24/04 9:57	0.1220	8.650	9/24/04 13:05	3.2508	1.500	9/24/04 13:01	3.1806	1.208
9/24/04 9:57	0.1294	8.613	9/24/04 13:09	3.3217	1.534	9/24/04 13:03	3.2181	1.251
9/24/04 9:58	0.1372	8.568	9/24/04 13:10	3.3342	1.538	9/24/04 13:06	3.2639	1.285
9/24/04 9:58	0.1455	8.641	9/24/04 13:15	3.4175	1.564	9/24/04 13:07	3.2889	1.301
9/24/04 9:59	0.1543	8.620	9/24/04 13:20	3.5008	1.581	9/24/04 13:11	3.3472	1.324
9/24/04 10:00	0.1636	8.585	9/24/04 13:21	3.5217	1.585	9/24/04 13:16	3.4306	1.349
9/24/04 10:00	0.1735	8.645	9/24/04 13:25	3.5842	1.597	9/24/04 13:16	3.4347	1.352
9/24/04 10:01	0.1839	8.628	9/24/04 13:30	3.6675	1.609	9/24/04 13:21	3.5139	1.368
9/24/04 10:01	0.1950	8.652	9/24/04 13:35	3.7508	1.619	9/24/04 13:26	3.5972	1.381
9/24/04 10:02	0.2067	8.658	9/24/04 13:40	3.8342	1.631	9/24/04 13:31	3.6806	1.395
9/24/04 10:03	0.2191	8.705	9/24/04 13:42	3.8717	1.637	9/24/04 13:33	3.7139	1.402
9/24/04 10:04	0.2323	8.615	9/24/04 13:45	3.9175	1.639	9/24/04 13:36	3.7639	1.404
9/24/04 10:05	0.2462	8.660	9/24/04 13:50	4.0008	1.647	9/24/04 13:41	3.8472	1.418
9/24/04 10:05	0.2610	8.673	9/24/04 13:55	4.0842	1.659	9/24/04 13:46	3.9306	1.429
9/24/04 10:06	0.2766	8.723	9/24/04 13:59	4.1508	1.703	9/24/04 13:51	4.0139	1.436
9/24/04 10:07	0.2932	8.703	9/24/04 14:00	4.1675	1.762	9/24/04 13:56	4.0972	1.448
9/24/04 10:08	0.3107	8.718	9/24/04 14:00	4.1717	1.770	9/24/04 13:58	4.1431	1.452

P-2 Pumping

P-1 Observation

P-3 Observation

Date/Time	Elapsed Time (Hours)	Drawdown (feet)		Date/Time	Elapsed Time (Hours)	Drawdown (feet)		Date/Time	Elapsed Time (Hours)	Drawdown (feet)
9/24/04 10:09	0.3293	8.681		9/24/04 14:02	4.2050	1.822		9/24/04 14:01	4.1806	1.507
9/24/04 10:11	0.3490	8.636		9/24/04 14:04	4.2383	1.873		9/24/04 14:01	4.1847	1.509
9/24/04 10:12	0.3699	8.722		9/24/04 14:05	4.2508	1.885		9/24/04 14:03	4.2222	1.560
9/24/04 10:13	0.3919	8.812		9/24/04 14:08	4.3092	1.927		9/24/04 14:06	4.2639	1.605
9/24/04 10:15	0.4154	8.595		9/24/04 14:10	4.3342	1.936		9/24/04 14:06	4.2681	1.610
9/24/04 10:16	0.4402	8.673		9/24/04 14:15	4.4175	1.966		9/24/04 14:11	4.3472	1.656
9/24/04 10:18	0.4664	8.735		9/24/04 14:18	4.4633	1.978		9/24/04 14:11	4.3556	1.660
9/24/04 10:19	0.4942	8.588		9/24/04 14:20	4.5008	1.984		9/24/04 14:16	4.4306	1.685
9/24/04 10:21	0.5237	8.722		9/24/04 14:25	4.5842	2.004		9/24/04 14:21	4.5139	1.708
9/24/04 10:23	0.5549	8.732		9/24/04 14:30	4.6675	2.016		9/24/04 14:21	4.5222	1.711
9/24/04 10:25	0.5880	8.769		9/24/04 14:34	4.7383	2.030		9/24/04 14:26	4.5972	1.724
9/24/04 10:27	0.6230	8.618		9/24/04 14:35	4.7508	2.034		9/24/04 14:31	4.6806	1.738
9/24/04 10:29	0.6601	8.687		9/24/04 14:40	4.8342	2.044		9/24/04 14:36	4.7639	1.749
9/24/04 10:32	0.6994	8.687		9/24/04 14:45	4.9175	2.064		9/24/04 14:40	4.8389	1.761
9/24/04 10:34	0.7411	8.721		9/24/04 14:50	5.0008	2.078		9/24/04 14:41	4.8472	1.761
9/24/04 10:37	0.7852	8.683		9/24/04 14:52	5.0300	2.082		9/24/04 14:46	4.9306	1.777
9/24/04 10:40	0.8319	8.687		9/24/04 14:55	5.0842	2.087		9/24/04 14:51	5.0139	1.791
9/24/04 10:43	0.8814	8.678		9/24/04 15:00	5.1675	2.097		9/24/04 14:56	5.0972	1.802
9/24/04 10:46	0.9338	8.962		9/24/04 15:05	5.2508	2.107		9/24/04 14:57	5.1264	1.813
9/24/04 10:49	0.9893	8.702		9/24/04 15:10	5.3342	2.115		9/24/04 15:01	5.1806	1.809
9/24/04 10:53	1.0481	8.633		9/24/04 15:14	5.4008	2.133		9/24/04 15:06	5.2639	1.820
9/24/04 10:56	1.1104	8.783		9/24/04 15:15	5.4175	2.143		9/24/04 15:11	5.3472	1.829
9/24/04 11:00	1.1764	8.798		9/24/04 15:20	5.5008	2.171		9/24/04 15:16	5.4306	1.850
9/24/04 11:05	1.2463	8.695		9/24/04 15:22	5.5342	2.184		9/24/04 15:18	5.4722	1.864
9/24/04 11:09	1.3204	8.703		9/24/04 15:25	5.5842	2.208		9/24/04 15:21	5.5139	1.871
9/24/04 11:14	1.3988	8.817		9/24/04 15:30	5.6675	2.226		9/24/04 15:26	5.5972	1.898
9/24/04 11:19	1.4819	8.785		9/24/04 15:33	5.7258	2.236		9/24/04 15:30	5.6722	1.914
9/24/04 11:24	1.5652	8.849		9/24/04 15:35	5.7508	2.240		9/24/04 15:31	5.6806	1.919
9/24/04 11:29	1.6486	8.714		9/24/04 15:40	5.8342	2.250		9/24/04 15:36	5.7639	1.928
9/24/04 11:34	1.7319	8.830		9/24/04 15:45	5.9175	2.256		9/24/04 15:41	5.8472	1.942
9/24/04 11:39	1.8152	8.766		9/24/04 15:50	6.0008	2.266		9/24/04 15:46	5.9306	1.948
9/24/04 11:44	1.8986	8.785		9/24/04 15:55	6.0842	2.272		9/24/04 15:51	6.0139	1.958
9/24/04 11:49	1.9819	8.815		9/24/04 16:00	6.1675	2.274		9/24/04 15:54	6.0722	1.964
9/24/04 11:55	2.0819	16.380	step 2	9/24/04 16:04	6.2300	2.123	recovery	9/24/04 15:56	6.0972	1.967
9/24/04 11:57	2.1152	16.490		9/24/04 16:04	6.2342	2.032		9/24/04 16:01	6.1806	1.969
9/24/04 11:58	2.1319	16.390		9/24/04 16:04	6.2383	1.946		9/24/04 16:04	6.2389	1.891
9/24/04 11:59	2.1486	16.390		9/24/04 16:04	6.2425	1.867		9/24/04 16:05	6.2472	1.804
9/24/04 12:00	2.1652	16.380		9/24/04 16:05	6.2467	1.799		9/24/04 16:05	6.2556	1.722
9/24/04 12:01	2.1819	16.390		9/24/04 16:05	6.2508	1.738		9/24/04 16:06	6.2639	1.642
9/24/04 12:02	2.1986	16.390		9/24/04 16:05	6.2550	1.684		9/24/04 16:06	6.2681	1.605
9/24/04 12:03	2.2152	16.390		9/24/04 16:06	6.2633	1.593		9/24/04 16:06	6.2764	1.539
9/24/04 12:04	2.2319	16.370		9/24/04 16:06	6.2717	1.518		9/24/04 16:07	6.2847	1.484
9/24/04 12:05	2.2486	16.380		9/24/04 16:07	6.2800	1.456		9/24/04 16:07	6.2931	1.432
9/24/04 12:06	2.2652	16.390		9/24/04 16:07	6.2883	1.405		9/24/04 16:08	6.3056	1.363
9/24/04 12:08	2.2986	16.430		9/24/04 16:08	6.3008	1.339		9/24/04 16:09	6.3181	1.306
9/24/04 12:10	2.3319	16.420		9/24/04 16:09	6.3133	1.288		9/24/04 16:10	6.3347	1.242
9/24/04 12:12	2.3652	16.410		9/24/04 16:10	6.3300	1.230		9/24/04 16:11	6.3472	1.201
9/24/04 12:14	2.3986	16.450		9/24/04 16:10	6.3342	1.216		9/24/04 16:11	6.3514	1.189
9/24/04 12:16	2.4319	16.440		9/24/04 16:11	6.3508	1.172		9/24/04 16:12	6.3722	1.132
9/24/04 12:18	2.4652	16.450		9/24/04 16:12	6.3758	1.117		9/24/04 16:14	6.3972	1.077
9/24/04 12:20	2.4986	16.490		9/24/04 16:14	6.4092	1.059		9/24/04 16:15	6.4264	1.025
9/24/04 12:25	2.5819	16.240		9/24/04 16:15	6.4175	1.045		9/24/04 16:16	6.4306	1.018
9/24/04 12:30	2.6652	16.140		9/24/04 16:17	6.4467	1.008		9/24/04 16:18	6.4639	0.970
9/24/04 12:35	2.7486	16.130		9/24/04 16:20	6.4967	0.954		9/24/04 16:20	6.5097	0.918
9/24/04 12:40	2.8319	16.150		9/24/04 16:20	6.5008	0.950		9/24/04 16:21	6.5139	0.915
9/24/04 12:55	3.0819	16.380		9/24/04 16:24	6.5633	0.901		9/24/04 16:24	6.5639	0.867
9/24/04 12:57	3.1152	16.212		9/24/04 16:25	6.5842	0.887		9/24/04 16:26	6.5972	0.844
9/24/04 12:57	3.1153	16.226		9/24/04 16:29	6.6508	0.849		9/24/04 16:28	6.6389	0.817
9/24/04 12:57	3.1154	16.202		9/24/04 16:30	6.6675	0.839		9/24/04 16:31	6.6806	0.796
9/24/04 12:57	3.1155	16.211		9/24/04 16:35	6.7508	0.803		9/24/04 16:35	6.7472	0.764
9/24/04 12:57	3.1156	16.213		9/24/04 16:36	6.7675	0.797		9/24/04 16:36	6.7639	0.760
9/24/04 12:57	3.1156	16.242		9/24/04 16:40	6.8342	0.776		9/24/04 16:41	6.8472	0.730
9/24/04 12:57	3.1157	16.175		9/24/04 16:45	6.9175	0.752		9/24/04 16:44	6.9056	0.711
9/24/04 12:57	3.1158	16.201		9/24/04 16:46	6.9425	0.746		9/24/04 16:46	6.9306	0.707
9/24/04 12:57	3.1159	16.282		9/24/04 16:50	7.0008	0.732		9/24/04 16:51	7.0139	0.686
9/24/04 12:57	3.1160	16.224		9/24/04 16:55	7.0842	0.718		9/24/04 16:56	7.0972	0.671
9/24/04 12:57	3.1161	16.199		9/24/04 17:00	7.1675	0.704		9/24/04 16:59	7.1597	0.661
9/24/04 12:57	3.1161	16.224		9/24/04 17:04	7.2383	0.694		9/24/04 17:01	7.1806	0.659
9/24/04 12:57	3.1162	16.169		9/24/04 17:05	7.2508	0.694		9/24/04 17:06	7.2639	0.648
9/24/04 12:57	3.1163	16.227		9/24/04 17:10	7.3342	0.682		9/24/04 17:11	7.3472	0.636
9/24/04 12:57	3.1164	16.205		9/24/04 17:15	7.4175	0.674		9/24/04 17:16	7.4306	0.629
9/24/04 12:57	3.1165	16.182		9/24/04 17:20	7.5008	0.666		9/24/04 17:21	7.5139	0.623
9/24/04 12:57	3.1166	16.218		9/24/04 17:25	7.5842	0.660		9/24/04 17:26	7.5972	0.615
9/24/04 12:57	3.1166	16.195		9/24/04 17:30	7.6675	0.654		9/24/04 17:28	7.6306	0.611
9/24/04 12:57	3.1167	16.203		9/24/04 17:35	7.7508	0.651		9/24/04 17:31	7.6806	0.611
9/24/04 12:57	3.1168	16.223		9/24/04 17:40	7.8342	0.647		9/24/04 17:36	7.7639	0.606
9/24/04 12:57	3.1169	16.190		9/24/04 17:42	7.8758	0.643		9/24/04 17:41	7.8472	0.602
9/24/04 12:57	3.1170	16.231		9/24/04 17:45	7.9175	0.643		9/24/04 17:46	7.9306	0.599
9/24/04 12:57	3.1171	16.201		9/24/04 17:50	8.0008	0.639		9/24/04 17:51	8.0139	0.597
9/24/04 12:57	3.1172	16.263		9/24/04 17:55	8.0842	0.635		9/24/04 17:56	8.0972	0.597
9/24/04 12:57	3.1173	16.246		9/24/04 18:00	8.1675	0.633		9/24/04 18:01	8.1806	0.595
9/24/04 12:57	3.1174	16.208		9/24/04 18:05	8.2508	0.629		9/24/04 18:06	8.2639	0.595
9/24/04 12:57	3.1176	16.220		9/24/04 18:10	8.3342	0.627		9/24/04 18:11	8.3472	0.593
9/24/04 12:57	3.1177	16.236		9/24/04 18:15	8.4175	0.625		9/24/04 18:16	8.4306	0.595
9/24/04 12:57	3.1179	16.229		9/24/04 18:20	8.5008	0.623		9/24/04 18:21	8.5139	0.591
9/24/04 12:57	3.1180	16.184		9/24/04 18:25	8.5842	0.619		9/24/04 18:26	8.5972	0.588
9/24/04 12:57	3.1182	16.224		9/24/04 18:30	8.6675	0.617		9/24/04 18:31	8.6806	0.586

P-2 Pumping

P-1 Observation

P-3 Observation

P-2 Pumping			P-1 Observation			P-3 Observation		
Date/Time	Elapsed Time (Hours)	Drawdown (feet)	Date/Time	Elapsed Time (Hours)	Drawdown (feet)	Date/Time	Elapsed Time (Hours)	Drawdown (feet)
9/24/04 12:57	3.1184	16.250	9/24/04 18:35	8.7508	0.613	9/24/04 18:36	8.7639	0.581
9/24/04 12:57	3.1185	16.246	9/24/04 18:40	8.8342	0.611	9/24/04 18:41	8.8472	0.577
9/24/04 12:57	3.1187	16.237	9/24/04 18:45	8.9175	0.609	9/24/04 18:46	8.9306	0.572
9/24/04 12:57	3.1189	16.184	9/24/04 18:50	9.0008	0.605	9/24/04 18:51	9.0139	0.565
9/24/04 12:57	3.1192	16.190	9/24/04 18:55	9.0842	0.603	9/24/04 18:54	9.0681	0.561
9/24/04 12:57	3.1194	16.214	9/24/04 19:00	9.1675	0.597	9/24/04 18:56	9.0972	0.558
9/24/04 12:57	3.1196	16.211	9/24/04 19:05	9.2508	0.595	9/24/04 19:01	9.1806	0.554
9/24/04 12:57	3.1199	16.218	9/24/04 19:08	9.3050	0.591	9/24/04 19:06	9.2639	0.545
9/24/04 12:57	3.1202	16.224	9/24/04 19:10	9.3342	0.591	9/24/04 19:11	9.3472	0.538
9/24/04 12:57	3.1205	16.263	9/24/04 19:15	9.4175	0.589	9/24/04 19:16	9.4306	0.531
9/24/04 12:57	3.1208	16.250	9/24/04 19:20	9.5008	0.585	9/24/04 19:21	9.5139	0.526
9/24/04 12:57	3.1211	16.231	9/24/04 19:25	9.5842	0.581	9/24/04 19:26	9.5972	0.520
9/24/04 12:57	3.1215	16.198	9/24/04 19:30	9.6675	0.577	9/24/04 19:30	9.6722	0.510
9/24/04 12:57	3.1218	16.200	9/24/04 19:35	9.7508	0.573	9/24/04 19:31	9.6806	0.513
9/24/04 12:57	3.1222	16.228	9/24/04 19:40	9.8342	0.571	9/24/04 19:36	9.7639	0.508
9/24/04 12:57	3.1226	16.203	9/24/04 19:45	9.9175	0.567	9/24/04 19:41	9.8472	0.501
9/24/04 12:57	3.1231	16.209	9/24/04 19:50	10.0008	0.565	9/24/04 19:46	9.9306	0.494
9/24/04 12:57	3.1235	16.213	9/24/04 19:55	10.0842	0.561	9/24/04 19:51	10.0139	0.490
9/24/04 12:57	3.1240	16.224	9/24/04 20:00	10.1675	0.559	9/24/04 19:56	10.0972	0.485
9/24/04 12:57	3.1245	16.207	9/24/04 20:05	10.2508	0.555	9/24/04 20:01	10.1806	0.483
9/24/04 12:57	3.1250	16.209	9/24/04 20:10	10.3342	0.553	9/24/04 20:06	10.2639	0.478
9/24/04 12:57	3.1256	16.598	9/24/04 20:15	10.4175	0.551	9/24/04 20:11	10.3472	0.474
9/24/04 12:57	3.1262	16.964	9/24/04 20:20	10.5008	0.549	9/24/04 20:16	10.4306	0.471
9/24/04 12:57	3.1268	17.258	9/24/04 20:25	10.5842	0.547	9/24/04 20:21	10.5139	0.467
9/24/04 12:57	3.1275	17.996	9/24/04 20:30	10.6675	0.545	9/24/04 20:26	10.5972	0.467
9/24/04 12:57	3.1282	19.233	9/24/04 20:35	10.7508	0.543	9/24/04 20:31	10.6806	0.464
9/24/04 12:57	3.1290	20.775	9/24/04 20:40	10.8342	0.541	9/24/04 20:34	10.7389	0.460
9/24/04 12:57	3.1298	21.638	9/24/04 20:41	10.8592	0.539	9/24/04 20:36	10.7639	0.460
9/24/04 12:57	3.1307	22.432	9/24/04 20:45	10.9175	0.539	9/24/04 20:41	10.8472	0.460
9/24/04 12:58	3.1316	23.614	9/24/04 20:50	11.0008	0.539	9/24/04 20:46	10.9306	0.458
9/24/04 12:58	3.1326	24.317	9/24/04 20:55	11.0842	0.537	9/24/04 20:51	11.0139	0.455
9/24/04 12:58	3.1336	24.477	9/24/04 21:00	11.1675	0.535	9/24/04 20:56	11.0972	0.455
9/24/04 12:58	3.1347	24.197	9/24/04 21:05	11.2508	0.535	9/24/04 21:01	11.1806	0.455
9/24/04 12:58	3.1359	23.632	9/24/04 21:10	11.3342	0.535	9/24/04 21:06	11.2639	0.453
9/24/04 12:58	3.1371	23.462	9/24/04 21:15	11.4175	0.533	9/24/04 21:11	11.3472	0.453
9/24/04 12:58	3.1384	23.798	9/24/04 21:20	11.5008	0.533	9/24/04 21:16	11.4306	0.451
9/24/04 12:58	3.1398	23.740	9/24/04 21:25	11.5842	0.531	9/24/04 21:21	11.5139	0.448
9/24/04 12:58	3.1412	23.588	9/24/04 21:30	11.6675	0.531	9/24/04 21:26	11.5972	0.448
9/24/04 12:58	3.1428	23.504	9/24/04 21:35	11.7508	0.529	9/24/04 21:31	11.6806	0.448
9/24/04 12:58	3.1444	23.377	9/24/04 21:40	11.8342	0.529	9/24/04 21:36	11.7639	0.446
9/24/04 12:58	3.1462	23.304	9/24/04 21:45	11.9175	0.527	9/24/04 21:41	11.8472	0.444
9/24/04 12:58	3.1480	23.270	9/24/04 21:50	12.0008	0.527	9/24/04 21:46	11.9306	0.444
9/24/04 12:59	3.1500	23.156	9/24/04 21:55	12.0842	0.526	9/24/04 21:51	12.0139	0.442
9/24/04 12:59	3.1521	23.067	9/24/04 22:00	12.1675	0.523	9/24/04 21:56	12.0972	0.442
9/24/04 12:59	3.1542	22.945	9/24/04 22:05	12.2508	0.523	9/24/04 22:01	12.1806	0.439
9/24/04 12:59	3.1566	22.948	9/24/04 22:10	12.3342	0.521	9/24/04 22:06	12.2639	0.435
9/24/04 12:59	3.1591	22.942	9/24/04 22:15	12.4175	0.522	9/24/04 22:11	12.3472	0.435
9/24/04 12:59	3.1617	22.846	9/24/04 22:20	12.5008	0.519	9/24/04 22:16	12.4306	0.432
9/24/04 12:59	3.1644	22.860	9/24/04 22:25	12.5842	0.517	9/24/04 22:21	12.5139	0.430
9/24/04 13:00	3.1674	22.849	9/24/04 22:30	12.6675	0.517	9/24/04 22:26	12.5972	0.428
9/24/04 13:00	3.1705	22.862	9/24/04 22:35	12.7508	0.513	9/24/04 22:31	12.6806	0.426
9/24/04 13:00	3.1738	22.827	9/24/04 22:40	12.8342	0.511	9/24/04 22:36	12.7639	0.421
9/24/04 13:00	3.1773	22.833	9/24/04 22:45	12.9175	0.511	9/24/04 22:41	12.8472	0.419
9/24/04 13:00	3.1810	22.864	9/24/04 22:50	13.0008	0.507	9/24/04 22:46	12.9306	0.419
9/24/04 13:01	3.1849	22.888	9/24/04 22:55	13.0842	0.507	9/24/04 22:51	13.0139	0.414
9/24/04 13:01	3.1891	22.866	9/24/04 23:00	13.1675	0.505	9/24/04 22:52	13.0389	0.410
9/24/04 13:01	3.1934	22.888	9/24/04 23:05	13.2508	0.503	9/24/04 22:56	13.0972	0.412
9/24/04 13:01	3.1981	22.898	9/24/04 23:10	13.3342	0.501	9/24/04 23:01	13.1806	0.407
9/24/04 13:02	3.2031	22.913	9/24/04 23:15	13.4175	0.499	9/24/04 23:06	13.2639	0.407
9/24/04 13:02	3.2083	22.917	9/24/04 23:20	13.5008	0.497	9/24/04 23:11	13.3472	0.403
9/24/04 13:02	3.2138	22.857	9/24/04 23:25	13.5842	0.495	9/24/04 23:16	13.4306	0.400
9/24/04 13:03	3.2197	22.865	9/24/04 23:30	13.6675	0.492	9/24/04 23:21	13.5139	0.398
9/24/04 13:03	3.2259	22.865	9/24/04 23:35	13.7508	0.492	9/24/04 23:26	13.5972	0.396
9/24/04 13:04	3.2325	22.884	9/24/04 23:40	13.8342	0.488	9/24/04 23:31	13.6806	0.391
9/24/04 13:04	3.2394	22.914	9/24/04 23:45	13.9175	0.488	9/24/04 23:36	13.7639	0.391
9/24/04 13:04	3.2468	22.947	9/24/04 23:50	13.9750	0.486	9/24/04 23:41	13.8472	0.387
9/24/04 13:05	3.2547	22.891	9/24/04 23:55	14.0008	0.484	9/24/04 23:46	13.9306	0.384
9/24/04 13:05	3.2630	22.899	9/24/04 23:59	14.0842	0.482	9/24/04 23:51	14.0139	0.382
9/24/04 13:06	3.2717	22.873	9/25/04 0:00	14.1675	0.480	9/24/04 23:56	14.0972	0.380
9/24/04 13:06	3.2811	22.934	9/25/04 0:05	14.2508	0.480	9/25/04 0:01	14.1806	0.378
9/24/04 13:07	3.2909	22.942	9/25/04 0:10	14.3342	0.478	9/25/04 0:06	14.2639	0.375
9/24/04 13:08	3.3014	22.934	9/25/04 0:15	14.4175	0.476	9/25/04 0:11	14.3472	0.375
9/24/04 13:08	3.3124	22.949	9/25/04 0:20	14.5008	0.474	9/25/04 0:16	14.4306	0.373
9/24/04 13:09	3.3241	22.962	9/25/04 0:25	14.5842	0.472	9/25/04 0:21	14.5139	0.371
9/24/04 13:10	3.3366	22.978	9/25/04 0:30	14.6675	0.470	9/25/04 0:26	14.5972	0.371
9/24/04 13:11	3.3497	22.948	9/25/04 0:35	14.7508	0.468	9/25/04 0:31	14.6806	0.368
9/24/04 13:11	3.3637	22.946	9/25/04 0:40	14.8342	0.466	9/25/04 0:36	14.7639	0.366
9/24/04 13:12	3.3784	22.914	9/25/04 0:45	14.9175	0.464	9/25/04 0:41	14.8472	0.366
9/24/04 13:13	3.3941	22.947	9/25/04 0:50	15.0008	0.462	9/25/04 0:46	14.9306	0.362
9/24/04 13:14	3.4106	22.947	9/25/04 0:55	15.0842	0.462	9/25/04 0:51	15.0139	0.362
9/24/04 13:15	3.4282	22.940	9/25/04 1:00	15.1675	0.460	9/25/04 0:52	15.0389	0.359
9/24/04 13:16	3.4467	22.908	9/25/04 1:05	15.2508	0.456	9/25/04 0:56	15.0972	0.359
9/24/04 13:18	3.4664	22.987	9/25/04 1:10	15.3342	0.456	9/25/04 1:01	15.1806	0.357
9/24/04 13:19	3.4873	22.931	9/25/04 1:15	15.4175	0.454	9/25/04 1:06	15.2639	0.355
9/24/04 13:20	3.5094	22.979	9/25/04 1:20	15.5008	0.452	9/25/04 1:11	15.3472	0.352
9/24/04 13:22	3.5328	22.948	9/25/04 1:25	15.5842	0.450	9/25/04 1:16	15.4306	0.350
9/24/04 13:23	3.5576	22.989	9/25/04 1:30	15.6675	0.448	9/25/04 1:21	15.5139	0.346

P-2 Pumping

P-1 Observation

P-3 Observation

Date/Time	Elapsed Time (Hours)	Drawdown (feet)		Date/Time	Elapsed Time (Hours)	Drawdown (feet)		Date/Time	Elapsed Time (Hours)	Drawdown (feet)
9/24/04 13:25	3.5839	22.929		9/25/04 1:35	15.7508	0.446		9/25/04 1:26	15.5972	0.348
9/24/04 13:26	3.6117	22.998		9/25/04 1:40	15.8342	0.444		9/25/04 1:31	15.6806	0.343
9/24/04 13:28	3.6411	22.948		9/25/04 1:45	15.9175	0.442		9/25/04 1:36	15.7639	0.339
9/24/04 13:30	3.6724	23.006		9/25/04 1:50	16.0008	0.440		9/25/04 1:41	15.8472	0.336
9/24/04 13:32	3.7054	22.901		9/25/04 1:55	16.0842	0.440		9/25/04 1:46	15.9306	0.332
9/24/04 13:34	3.7404	22.978		9/25/04 1:57	16.1217	0.436		9/25/04 1:51	16.0139	0.332
9/24/04 13:36	3.7776	22.966		9/25/04 2:00	16.1675	0.436		9/25/04 1:56	16.0972	0.330
9/24/04 13:39	3.8169	22.985		9/25/04 2:05	16.2508	0.434		9/25/04 2:01	16.1806	0.327
9/24/04 13:41	3.8585	22.978		9/25/04 2:10	16.3342	0.432		9/25/04 2:06	16.2639	0.320
9/24/04 13:44	3.9026	22.994		9/25/04 2:15	16.4175	0.428		9/25/04 2:11	16.3472	0.318
9/24/04 13:47	3.9493	22.987		9/25/04 2:20	16.5008	0.426		9/25/04 2:16	16.4306	0.316
9/24/04 13:50	3.9988	23.004		9/25/04 2:25	16.5842	0.424		9/25/04 2:21	16.5139	0.311
9/24/04 13:53	4.0512	23.017		9/25/04 2:30	16.6675	0.422		9/25/04 2:26	16.5972	0.309
9/24/04 13:56	4.1067	23.000		9/25/04 2:35	16.7508	0.418		9/25/04 2:31	16.6806	0.307
9/24/04 13:57	4.1287	23.039		9/25/04 2:40	16.8342	0.416		9/25/04 2:36	16.7639	0.302
9/24/04 13:57	4.1288	22.981		9/25/04 2:45	16.9175	0.414		9/25/04 2:41	16.8472	0.300
9/24/04 13:57	4.1289	23.001		9/25/04 2:50	17.0008	0.410		9/25/04 2:46	16.9306	0.295
9/24/04 13:57	4.1289	22.990		9/25/04 2:55	17.0842	0.408		9/25/04 2:51	17.0139	0.291
9/24/04 13:57	4.1290	23.012		9/25/04 3:00	17.1675	0.406		9/25/04 2:56	17.0972	0.286
9/24/04 13:57	4.1291	23.046		9/25/04 3:05	17.2508	0.404		9/25/04 3:01	17.1806	0.284
9/24/04 13:57	4.1292	22.982		9/25/04 3:10	17.3342	0.400		9/25/04 3:06	17.2639	0.279
9/24/04 13:57	4.1293	22.990		9/25/04 3:15	17.4175	0.398		9/25/04 3:11	17.3472	0.275
9/24/04 13:57	4.1294	22.993		9/25/04 3:20	17.5008	0.396		9/25/04 3:16	17.4306	0.272
9/24/04 13:57	4.1294	23.038		9/25/04 3:25	17.5842	0.392		9/25/04 3:21	17.5139	0.268
9/24/04 13:57	4.1295	22.995		9/25/04 3:30	17.6675	0.390		9/25/04 3:26	17.5972	0.266
9/24/04 13:57	4.1296	23.003		9/25/04 3:35	17.7508	0.386		9/25/04 3:31	17.6806	0.261
9/24/04 13:57	4.1297	23.001		9/25/04 3:40	17.8342	0.384		9/25/04 3:36	17.7639	0.259
9/24/04 13:57	4.1298	22.988		9/25/04 3:45	17.9175	0.382		9/25/04 3:41	17.8472	0.254
9/24/04 13:57	4.1299	22.995		9/25/04 3:50	18.0008	0.380		9/25/04 3:46	17.9306	0.252
9/24/04 13:57	4.1299	23.004		9/25/04 3:55	18.0842	0.376		9/25/04 3:51	18.0139	0.247
9/24/04 13:57	4.1300	22.993		9/25/04 4:00	18.1675	0.374		9/25/04 3:56	18.0972	0.243
9/24/04 13:57	4.1301	22.939		9/25/04 4:05	18.2508	0.370		9/25/04 4:01	18.1806	0.240
9/24/04 13:57	4.1302	23.010		9/25/04 4:10	18.3342	0.366		9/25/04 4:06	18.2639	0.234
9/24/04 13:57	4.1303	22.997		9/25/04 4:15	18.4175	0.362		9/25/04 4:11	18.3472	0.229
9/24/04 13:57	4.1304	22.978		9/25/04 4:20	18.5008	0.360		9/25/04 4:16	18.4306	0.224
9/24/04 13:57	4.1305	23.006		9/25/04 4:25	18.5842	0.356		9/25/04 4:21	18.5139	0.222
9/24/04 13:57	4.1306	22.959		9/25/04 4:30	18.6675	0.352		9/25/04 4:26	18.5972	0.215
9/24/04 13:57	4.1307	22.971		9/25/04 4:35	18.7508	0.348		9/25/04 4:31	18.6806	0.211
9/24/04 13:57	4.1308	22.997		9/25/04 4:40	18.8342	0.344		9/25/04 4:36	18.7639	0.208
9/24/04 13:57	4.1309	22.984		9/25/04 4:45	18.9175	0.340		9/25/04 4:41	18.8472	0.206
9/24/04 13:57	4.1310	22.999		9/25/04 4:50	19.0008	0.336		9/25/04 4:46	18.9306	0.197
9/24/04 13:57	4.1312	23.012		9/25/04 4:55	19.0842	0.333		9/25/04 4:51	19.0139	0.195
9/24/04 13:57	4.1313	22.997		9/25/04 5:00	19.1675	0.331		9/25/04 4:56	19.0972	0.188
9/24/04 13:58	4.1315	22.989		9/25/04 5:05	19.2508	0.325		9/25/04 5:01	19.1806	0.183
9/24/04 13:58	4.1316	22.978		9/25/04 5:10	19.3342	0.321		9/25/04 5:06	19.2639	0.179
9/24/04 13:58	4.1318	22.999		9/25/04 5:15	19.4175	0.317		9/25/04 5:11	19.3472	0.174
9/24/04 13:58	4.1320	22.993		9/25/04 5:20	19.5008	0.313		9/25/04 5:16	19.4306	0.167
9/24/04 13:58	4.1322	22.958		9/25/04 5:25	19.5842	0.309		9/25/04 5:21	19.5139	0.165
9/24/04 13:58	4.1324	23.038		9/25/04 5:30	19.6675	0.307		9/25/04 5:26	19.5972	0.160
9/24/04 13:58	4.1326	23.016		9/25/04 5:35	19.7508	0.301		9/25/04 5:31	19.6806	0.158
9/24/04 13:58	4.1329	22.993		9/25/04 5:40	19.8342	0.299		9/25/04 5:36	19.7639	0.156
9/24/04 13:58	4.1331	22.994		9/25/04 5:45	19.9175	0.293		9/25/04 5:41	19.8472	0.154
9/24/04 13:58	4.1334	22.979		9/25/04 5:50	20.0008	0.289		9/25/04 5:46	19.9306	0.147
9/24/04 13:58	4.1336	23.003		9/25/04 5:55	20.0842	0.287		9/25/04 5:51	20.0139	0.142
9/24/04 13:58	4.1339	23.031		9/25/04 6:00	20.1675	0.281		9/25/04 5:56	20.0972	0.140
9/24/04 13:58	4.1342	22.932		9/25/04 6:05	20.2508	0.277		9/25/04 6:01	20.1806	0.135
9/24/04 13:58	4.1344	22.992		9/25/04 6:10	20.3342	0.273		9/25/04 6:06	20.2639	0.131
9/24/04 13:58	4.1349	23.025		9/25/04 6:15	20.4175	0.271		9/25/04 6:11	20.3472	0.124
9/24/04 13:58	4.1353	22.988		9/25/04 6:20	20.5008	0.265		9/25/04 6:16	20.4306	0.119
9/24/04 13:58	4.1357	22.984		9/25/04 6:25	20.5842	0.261		9/25/04 6:21	20.5139	0.117
9/24/04 13:58	4.1361	22.951		9/25/04 6:30	20.6675	0.257		9/25/04 6:26	20.5972	0.115
9/24/04 13:58	4.1365	22.898		9/25/04 6:35	20.7508	0.255		9/25/04 6:31	20.6806	0.108
9/24/04 13:58	4.1370	22.728		9/25/04 6:40	20.8342	0.251		9/25/04 6:36	20.7639	0.106
9/24/04 13:58	4.1374	23.014		9/25/04 6:45	20.9175	0.247		9/25/04 6:41	20.8472	0.101
9/24/04 13:58	4.1379	23.494	step 4	9/25/04 6:50	21.0008	0.243		9/25/04 6:46	20.9306	0.094
9/24/04 13:58	4.1385	24.273		9/25/04 6:55	21.0842	0.239		9/25/04 6:51	21.0139	0.092
9/24/04 13:58	4.1390	26.158		9/25/04 7:00	21.1675	0.237		9/25/04 6:56	21.0972	0.090
9/24/04 13:58	4.1397	26.824		9/25/04 7:05	21.2508	0.233		9/25/04 7:01	21.1806	0.087
9/24/04 13:58	4.1403	28.006		9/25/04 7:10	21.3342	0.229		9/25/04 7:06	21.2639	0.083
9/24/04 13:58	4.1410	28.977		9/25/04 7:15	21.4175	0.225		9/25/04 7:11	21.3472	0.076
9/24/04 13:58	4.1417	30.072		9/25/04 7:20	21.5008	0.223		9/25/04 7:16	21.4306	0.071
9/24/04 13:58	4.1425	30.849		9/25/04 7:25	21.5842	0.219		9/25/04 7:21	21.5139	0.069
9/24/04 13:58	4.1433	31.333		9/25/04 7:30	21.6675	0.215		9/25/04 7:26	21.5972	0.064
9/24/04 13:58	4.1442	31.366		9/25/04 7:35	21.7508	0.213		9/25/04 7:31	21.6806	0.058
9/24/04 13:58	4.1451	31.212		9/25/04 7:40	21.8342	0.209		9/25/04 7:36	21.7639	0.055
9/24/04 13:58	4.1460	31.125		9/25/04 7:45	21.9175	0.206		9/25/04 7:41	21.8472	0.053
9/24/04 13:58	4.1471	31.064		9/25/04 7:50	22.0008	0.204		9/25/04 7:46	21.9306	0.048
9/24/04 13:59	4.1482	31.012		9/25/04 7:55	22.0842	0.202		9/25/04 7:51	22.0139	0.044
9/24/04 13:59	4.1493	30.931		9/25/04 8:00	22.1675	0.198		9/25/04 7:56	22.0972	0.039
9/24/04 13:59	4.1505	30.930		9/25/04 8:05	22.2508	0.198		9/25/04 8:01	22.1806	0.032
9/24/04 13:59	4.1519	30.937		9/25/04 8:10	22.3342	0.196		9/25/04 8:06	22.2639	0.030
9/24/04 13:59	4.1532	30.806		9/25/04 8:15	22.4175	0.194				
9/24/04 13:59	4.1547	30.865		9/25/04 8:20	22.5008	0.192				
9/24/04 13:59	4.1563	30.845								
9/24/04 13:59	4.1579	30.868								
9/24/04 13:59	4.1597	30.896								
9/24/04 13:59	4.1615	30.729								

P-2 Pumping

P-1 Observation

P-3 Observation

P-2 Pumping			P-1 Observation			P-3 Observation		
Date/Time	Elapsed Time (Hours)	Drawdown (feet)	Date/Time	Elapsed Time (Hours)	Drawdown (feet)	Date/Time	Elapsed Time (Hours)	Drawdown (feet)
9/24/04 13:59	4.1634	29.755	9/25/04 8:25	22.5842	0.192	9/25/04 8:11	22.3472	0.028
9/24/04 14:00	4.1655	29.226	9/25/04 8:30	22.6675	0.190	9/25/04 8:16	22.4306	0.028
9/24/04 14:00	4.1677	28.124	9/25/04 8:35	22.7508	0.190	9/25/04 8:21	22.5139	0.026
9/24/04 14:00	4.1700	27.707	9/25/04 8:40	22.8342	0.190	9/25/04 8:26	22.5972	0.021
9/24/04 14:00	4.1725	27.505	9/25/04 8:45	22.9175	0.188	9/25/04 8:31	22.6806	0.021
9/24/04 14:00	4.1751	27.403	End of Data			9/25/04 8:36	22.7639	0.019
9/24/04 14:00	4.1779	27.435	End of Data			End of data		
9/24/04 14:00	4.1809	27.404						
9/24/04 14:01	4.1840	28.943						
9/24/04 14:01	4.1873	31.151						
9/24/04 14:01	4.1908	31.308						
9/24/04 14:01	4.1945	31.372						
9/24/04 14:02	4.1984	31.362						
9/24/04 14:02	4.2025	31.305						
9/24/04 14:02	4.2069	31.387						
9/24/04 14:02	4.2116	31.397						
9/24/04 14:03	4.2165	31.412						
9/24/04 14:03	4.2217	31.442						
9/24/04 14:03	4.2273	31.457						
9/24/04 14:04	4.2331	31.441						
9/24/04 14:04	4.2394	31.449						
9/24/04 14:04	4.2459	31.453						
9/24/04 14:05	4.2529	31.472						
9/24/04 14:05	4.2603	31.458						
9/24/04 14:06	4.2681	31.428						
9/24/04 14:06	4.2764	31.466						
9/24/04 14:07	4.2852	31.414						
9/24/04 14:07	4.2945	31.477						
9/24/04 14:08	4.3044	31.470						
9/24/04 14:09	4.3148	31.442						
9/24/04 14:09	4.3259	31.474						
9/24/04 14:10	4.3376	31.418						
9/24/04 14:11	4.3500	31.498						
9/24/04 14:11	4.3632	31.413						
9/24/04 14:12	4.3771	31.372						
9/24/04 14:13	4.3919	31.452						
9/24/04 14:14	4.4075	31.424						
9/24/04 14:15	4.4241	31.342						
9/24/04 14:16	4.4416	31.415						
9/24/04 14:17	4.4602	31.415						
9/24/04 14:18	4.4799	31.430						
9/24/04 14:20	4.5008	31.439						
9/24/04 14:21	4.5229	31.430						
9/24/04 14:22	4.5463	31.424						
9/24/04 14:24	4.5711	31.430						
9/24/04 14:25	4.5973	31.445						
9/24/04 14:27	4.6251	31.450						
9/24/04 14:29	4.6546	31.417						
9/24/04 14:31	4.6858	31.445						
9/24/04 14:33	4.7189	31.469						
9/24/04 14:35	4.7539	31.447						
9/24/04 14:37	4.7910	31.450						
9/24/04 14:39	4.8303	31.372						
9/24/04 14:42	4.8720	31.971						
9/24/04 14:45	4.9161	31.969						
9/24/04 14:47	4.9628	32.034						
9/24/04 14:50	5.0123	32.006						
9/24/04 14:53	5.0647	32.038						
9/24/04 14:57	5.1202	32.001						
9/24/04 15:00	5.1790	32.008						
9/24/04 15:04	5.2413	31.967						
9/24/04 15:08	5.3073	32.006						
9/24/04 15:12	5.3772	31.807						
9/24/04 15:17	5.4513	33.551						
9/24/04 15:21	5.5297	34.711						
9/24/04 15:26	5.6128	34.801						
9/24/04 15:31	5.6961	34.755						
9/24/04 15:36	5.7795	34.798						
9/24/04 15:41	5.8628	34.698						
9/24/04 15:46	5.9461	34.659						
9/24/04 15:51	6.0295	34.657						
9/24/04 15:56	6.1128	34.293						
9/24/04 16:02	6.2053	34.392	Pump off recovery					
9/24/04 16:02	6.2054	34.351						
9/24/04 16:02	6.2055	34.405						
9/24/04 16:02	6.2055	34.386						
9/24/04 16:02	6.2056	34.421						
9/24/04 16:02	6.2057	34.440						
9/24/04 16:02	6.2058	34.406						
9/24/04 16:02	6.2059	34.386						
9/24/04 16:02	6.2060	34.376						
9/24/04 16:02	6.2060	34.421						
9/24/04 16:02	6.2061	34.410						
9/24/04 16:02	6.2062	34.397						
9/24/04 16:02	6.2063	34.436						
9/24/04 16:02	6.2064	34.430						
9/24/04 16:02	6.2065	34.406						

P-2 Pumping

P-1 Observation

P-3 Observation

P-2 Pumping			P-1 Observation			P-3 Observation		
Date/Time	Elapsed Time (Hours)	Drawdown (feet)	Date/Time	Elapsed Time (Hours)	Drawdown (feet)	Date/Time	Elapsed Time (Hours)	Drawdown (feet)
9/24/04 16:02	6.2065	34.427						
9/24/04 16:02	6.2066	34.397						
9/24/04 16:02	6.2067	34.439						
9/24/04 16:02	6.2068	34.376						
9/24/04 16:02	6.2069	34.413						
9/24/04 16:02	6.2070	34.395						
9/24/04 16:02	6.2071	34.380						
9/24/04 16:02	6.2072	34.402						
9/24/04 16:02	6.2073	34.389						
9/24/04 16:02	6.2074	34.413						
9/24/04 16:02	6.2075	34.406						
9/24/04 16:02	6.2076	34.389						
9/24/04 16:02	6.2078	34.400						
9/24/04 16:02	6.2079	34.389						
9/24/04 16:02	6.2081	34.410						
9/24/04 16:02	6.2082	34.363						
9/24/04 16:02	6.2084	34.380						
9/24/04 16:02	6.2086	34.395						
9/24/04 16:02	6.2088	34.369						
9/24/04 16:02	6.2090	34.391						
9/24/04 16:02	6.2092	34.386						
9/24/04 16:02	6.2095	34.399						
9/24/04 16:02	6.2097	34.419						
9/24/04 16:02	6.2100	34.408						
9/24/04 16:02	6.2102	34.384						
9/24/04 16:02	6.2105	34.365						
9/24/04 16:02	6.2109	34.374						
9/24/04 16:02	6.2112	34.375						
9/24/04 16:02	6.2115	34.384						
9/24/04 16:02	6.2119	34.388						
9/24/04 16:02	6.2123	34.414						
9/24/04 16:02	6.2127	34.390						
9/24/04 16:02	6.2131	34.347						
9/24/04 16:02	6.2136	34.360						
9/24/04 16:02	6.2140	34.397						
9/24/04 16:03	6.2145	34.375						
9/24/04 16:03	6.2151	34.406						
9/24/04 16:03	6.2157	34.390						
9/24/04 16:03	6.2163	34.412						
9/24/04 16:03	6.2169	34.384						
9/24/04 16:03	6.2176	34.408						
9/24/04 16:03	6.2183	34.397						
9/24/04 16:03	6.2191	34.401						
9/24/04 16:03	6.2199	33.877						
9/24/04 16:03	6.2208	19.722						
9/24/04 16:03	6.2217	6.826						
9/24/04 16:03	6.2227	2.253						
9/24/04 16:03	6.2237	3.273						
9/24/04 16:03	6.2248	4.107						
9/24/04 16:03	6.2259	4.084						
9/24/04 16:03	6.2272	3.878						
9/24/04 16:03	6.2285	3.706						
9/24/04 16:03	6.2298	3.536						
9/24/04 16:04	6.2313	3.364						
9/24/04 16:04	6.2329	3.211						
9/24/04 16:04	6.2345	3.078						
9/24/04 16:04	6.2363	2.956						
9/24/04 16:04	6.2381	2.838						
9/24/04 16:04	6.2400	2.728						
9/24/04 16:04	6.2421	2.621						
9/24/04 16:04	6.2443	2.524						
9/24/04 16:04	6.2467	2.429						
9/24/04 16:05	6.2491	2.346						
9/24/04 16:05	6.2517	2.260						
9/24/04 16:05	6.2545	2.180						
9/24/04 16:05	6.2575	2.110						
9/24/04 16:05	6.2606	2.036						
9/24/04 16:05	6.2639	2.041						
9/24/04 16:06	6.2674	1.985						
9/24/04 16:06	6.2711	1.927						
9/24/04 16:06	6.2750	1.878						
9/24/04 16:06	6.2791	1.832						
9/24/04 16:07	6.2835	1.794						
9/24/04 16:07	6.2882	1.762						
9/24/04 16:07	6.2931	1.716						
9/24/04 16:08	6.2983	1.678						
9/24/04 16:08	6.3039	1.647						
9/24/04 16:08	6.3097	1.615						
9/24/04 16:09	6.3160	1.579						
9/24/04 16:09	6.3225	1.547						
9/24/04 16:09	6.3295	1.520						
9/24/04 16:10	6.3369	1.491						
9/24/04 16:10	6.3447	1.475						
9/24/04 16:11	6.3530	1.447						
9/24/04 16:11	6.3618	1.419						
9/24/04 16:12	6.3711	1.391						
9/24/04 16:12	6.3810	1.204						

P-2 Pumping

P-1 Observation

P-3 Observation

P-2 Pumping			P-1 Observation			P-3 Observation		
Date/Time	Elapsed Time (Hours)	Drawdown (feet)	Date/Time	Elapsed Time (Hours)	Drawdown (feet)	Date/Time	Elapsed Time (Hours)	Drawdown (feet)
9/24/04 16:13	6.3914	1.213						
9/24/04 16:14	6.4025	1.212						
9/24/04 16:14	6.4142	1.200						
9/24/04 16:15	6.4266	1.195						
9/24/04 16:16	6.4398	1.187						
9/24/04 16:17	6.4537	1.175						
9/24/04 16:18	6.4685	1.033						
9/24/04 16:19	6.4841	1.012						
9/24/04 16:20	6.5007	0.993						
9/24/04 16:21	6.5182	0.975						
9/24/04 16:22	6.5368	0.958						
9/24/04 16:23	6.5565	0.938						
9/24/04 16:24	6.5774	0.924						
9/24/04 16:26	6.5995	0.907						
9/24/04 16:27	6.6229	0.891						
9/24/04 16:28	6.6477	0.877						
9/24/04 16:30	6.6739	0.862						
9/24/04 16:32	6.7017	0.847						
9/24/04 16:34	6.7312	0.834						
9/24/04 16:35	6.7624	0.821						
9/24/04 16:37	6.7955	0.807						
9/24/04 16:39	6.8305	0.795						
9/24/04 16:42	6.8676	0.785						
9/24/04 16:44	6.9069	0.771						
9/24/04 16:47	6.9486	0.761						
9/24/04 16:49	6.9927	0.752						
9/24/04 16:52	7.0394	0.740						
9/24/04 16:55	7.0889	0.732						
9/24/04 16:58	7.1413	0.721						
9/24/04 17:01	7.1968	0.712						
9/24/04 17:05	7.2556	0.706						
9/24/04 17:09	7.3179	0.699						
9/24/04 17:13	7.3839	0.690						
9/24/04 17:17	7.4538	0.685						
9/24/04 17:21	7.5279	0.678						
9/24/04 17:26	7.6063	0.673						
9/24/04 17:31	7.6894	0.665						
9/24/04 17:36	7.7727	0.662						
9/24/04 17:41	7.8561	0.658						
9/24/04 17:46	7.9394	0.655						
9/24/04 17:51	8.0227	0.652						
9/24/04 17:56	8.1061	0.650						
9/24/04 18:01	8.1894	0.646						
9/24/04 18:06	8.2727	0.644						
9/24/04 18:11	8.3561	0.642						
9/24/04 18:16	8.4394	0.640						
9/24/04 18:21	8.5227	0.638						
9/24/04 18:26	8.6061	0.636						
9/24/04 18:31	8.6894	0.633						
9/24/04 18:36	8.7727	0.632						
9/24/04 18:41	8.8561	0.629						
9/24/04 18:46	8.9394	0.625						
9/24/04 18:51	9.0227	0.622						
9/24/04 18:56	9.1061	0.618						
9/24/04 19:01	9.1894	0.611						
9/24/04 19:06	9.2727	0.609						
9/24/04 19:11	9.3561	0.604						
9/24/04 19:16	9.4394	0.600						
9/24/04 19:21	9.5227	0.595						
9/24/04 19:26	9.6061	0.591						
9/24/04 19:31	9.6894	0.586						
9/24/04 19:36	9.7727	0.584						
9/24/04 19:41	9.8561	0.577						
9/24/04 19:46	9.9394	0.574						
9/24/04 19:51	10.0227	0.571						
9/24/04 19:56	10.1061	0.569						
9/24/04 20:01	10.1894	0.565						
9/24/04 20:06	10.2727	0.563						
9/24/04 20:11	10.3561	0.560						
9/24/04 20:16	10.4394	0.556						
9/24/04 20:21	10.5227	0.554						
9/24/04 20:26	10.6061	0.551						
9/24/04 20:31	10.6894	0.549						
9/24/04 20:36	10.7727	0.547						
9/24/04 20:41	10.8561	0.546						
9/24/04 20:46	10.9394	0.543						
9/24/04 20:51	11.0227	0.543						
9/24/04 20:56	11.1061	0.541						
9/24/04 21:01	11.1894	0.540						
9/24/04 21:06	11.2727	0.538						
9/24/04 21:11	11.3561	0.538						
9/24/04 21:16	11.4394	0.536						
9/24/04 21:21	11.5227	0.536						
9/24/04 21:26	11.6061	0.535						
9/24/04 21:31	11.6894	0.535						
9/24/04 21:36	11.7727	0.533						
9/24/04 21:41	11.8561	0.531						

P-2 Pumping

P-1 Observation

P-3 Observation

Date/Time	Elapsed Time (Hours)	Drawdown (feet)	Date/Time	Elapsed Time (Hours)	Drawdown (feet)	Date/Time	Elapsed Time (Hours)	Drawdown (feet)
9/24/04 21:46	11.9394	0.529						
9/24/04 21:51	12.0227	0.527						
9/24/04 21:56	12.1061	0.527						
9/24/04 22:01	12.1894	0.525						
9/24/04 22:06	12.2727	0.525						
9/24/04 22:11	12.3561	0.523						
9/24/04 22:16	12.4394	0.520						
9/24/04 22:21	12.5227	0.518						
9/24/04 22:26	12.6061	0.518						
9/24/04 22:31	12.6894	0.513						
9/24/04 22:36	12.7727	0.512						
9/24/04 22:41	12.8561	0.509						
9/24/04 22:46	12.9394	0.505						
9/24/04 22:51	13.0227	0.505						
9/24/04 22:56	13.1061	0.503						
9/24/04 23:01	13.1894	0.500						
9/24/04 23:06	13.2727	0.499						
9/24/04 23:11	13.3561	0.494						
9/24/04 23:16	13.4394	0.492						
9/24/04 23:21	13.5227	0.490						
9/24/04 23:26	13.6061	0.488						
9/24/04 23:31	13.6894	0.484						
9/24/04 23:36	13.7727	0.484						
9/24/04 23:41	13.8561	0.481						
9/24/04 23:46	13.9394	0.479						
9/24/04 23:51	14.0227	0.477						
9/24/04 23:56	14.1061	0.473						
9/25/04 0:01	14.1894	0.471						
9/25/04 0:06	14.2727	0.469						
9/25/04 0:11	14.3561	0.469						
9/25/04 0:16	14.4394	0.466						
9/25/04 0:21	14.5227	0.464						
9/25/04 0:26	14.6061	0.462						
9/25/04 0:31	14.6894	0.462						
9/25/04 0:36	14.7727	0.460						
9/25/04 0:41	14.8561	0.458						
9/25/04 0:46	14.9394	0.456						
9/25/04 0:51	15.0227	0.453						
9/25/04 0:56	15.1061	0.453						
9/25/04 1:01	15.1894	0.451						
9/25/04 1:06	15.2727	0.449						
9/25/04 1:11	15.3561	0.447						
9/25/04 1:16	15.4394	0.445						
9/25/04 1:21	15.5227	0.443						
9/25/04 1:26	15.6061	0.441						
9/25/04 1:31	15.6894	0.438						
9/25/04 1:36	15.7727	0.436						
9/25/04 1:41	15.8561	0.434						
9/25/04 1:46	15.9394	0.434						
9/25/04 1:51	16.0227	0.430						
9/25/04 1:56	16.1061	0.427						
9/25/04 2:01	16.1894	0.425						
9/25/04 2:06	16.2727	0.423						
9/25/04 2:11	16.3561	0.419						
9/25/04 2:16	16.4394	0.415						
9/25/04 2:21	16.5227	0.412						
9/25/04 2:26	16.6061	0.410						
9/25/04 2:31	16.6894	0.406						
9/25/04 2:36	16.7727	0.406						
9/25/04 2:41	16.8561	0.402						
9/25/04 2:46	16.9394	0.399						
9/25/04 2:51	17.0227	0.397						
9/25/04 2:56	17.1061	0.393						
9/25/04 3:01	17.1894	0.389						
9/25/04 3:06	17.2727	0.387						
9/25/04 3:11	17.3561	0.385						
9/25/04 3:16	17.4394	0.382						
9/25/04 3:21	17.5227	0.378						
9/25/04 3:26	17.6061	0.376						
9/25/04 3:31	17.6894	0.372						
9/25/04 3:36	17.7727	0.369						
9/25/04 3:41	17.8561	0.372						
9/25/04 3:46	17.9394	0.363						
9/25/04 3:51	18.0227	0.361						
9/25/04 3:56	18.1061	0.359						
9/25/04 4:01	18.1894	0.354						
9/25/04 4:06	18.2727	0.350						
9/25/04 4:11	18.3561	0.346						
9/25/04 4:16	18.4394	0.341						
9/25/04 4:21	18.5227	0.337						
9/25/04 4:26	18.6061	0.333						
9/25/04 4:31	18.6894	0.331						
9/25/04 4:36	18.7727	0.325						
9/25/04 4:41	18.8561	0.320						
9/25/04 4:46	18.9394	0.316						
9/25/04 4:51	19.0227	0.311						
9/25/04 4:56	19.1061	0.307						

P-2 Pumping

P-1 Observation

P-3 Observation

Date/Time	Elapsed Time (Hours)	Drawdown (feet)	Date/Time	Elapsed Time (Hours)	Drawdown (feet)	Date/Time	Elapsed Time (Hours)	Drawdown (feet)
9/25/04 5:01	19.1894	0.305						
9/25/04 5:06	19.2727	0.301						
9/25/04 5:11	19.3561	0.292						
9/25/04 5:16	19.4394	0.292						
9/25/04 5:21	19.5227	0.286						
9/25/04 5:26	19.6061	0.281						
9/25/04 5:31	19.6894	0.277						
9/25/04 5:36	19.7727	0.273						
9/25/04 5:41	19.8561	0.268						
9/25/04 5:46	19.9394	0.266						
9/25/04 5:51	20.0227	0.262						
9/25/04 5:56	20.1061	0.258						
9/25/04 6:01	20.1894	0.253						
9/25/04 6:06	20.2727	0.249						
9/25/04 6:11	20.3561	0.245						
9/25/04 6:16	20.4394	0.240						
9/25/04 6:21	20.5227	0.236						
9/25/04 6:26	20.6061	0.232						
9/25/04 6:31	20.6894	0.228						
9/25/04 6:36	20.7727	0.223						
9/25/04 6:41	20.8561	0.219						
9/25/04 6:46	20.9394	0.217						
9/25/04 6:51	21.0227	0.210						
9/25/04 6:56	21.1061	0.208						
9/25/04 7:01	21.1894	0.204						
9/25/04 7:06	21.2727	0.200						
9/25/04 7:11	21.3561	0.200						
9/25/04 7:16	21.4394	0.193						
9/25/04 7:21	21.5227	0.189						
9/25/04 7:26	21.6061	0.185						
9/25/04 7:31	21.6894	0.182						
9/25/04 7:36	21.7727	0.178						
9/25/04 7:41	21.8561	0.174						
9/25/04 7:46	21.9394	0.172						
9/25/04 7:51	22.0227	0.167						
9/25/04 7:56	22.1061	0.166						
9/25/04 8:01	22.1894	0.163						
9/25/04 8:06	22.2727	0.163						
9/25/04 8:11	22.3561	0.163						
9/25/04 8:16	22.4394	0.159						
9/25/04 8:21	22.5227	0.159						
9/25/04 8:26	22.6061	0.154						
9/25/04 8:31	22.6894	0.154						
9/25/04 8:36	22.7727	0.152						
End of Data								

P-3 Pumping

Date/Time	Elapsed Time (Hours)	Drawdown (feet)	
9/23/04 10:01	0.0000	0.000	step 1
9/23/04 10:01	0.0008	7.306	pumping starts
9/23/04 10:01	0.0017	14.116	
9/23/04 10:01	0.0026	18.231	
9/23/04 10:01	0.0036	19.253	
9/23/04 10:01	0.0046	19.275	
9/23/04 10:01	0.0057	18.879	
9/23/04 10:01	0.0068	18.632	
9/23/04 10:01	0.0081	13.369	
9/23/04 10:01	0.0094	12.545	
9/23/04 10:01	0.0108	12.368	
9/23/04 10:01	0.0122	12.685	
9/23/04 10:01	0.0138	12.971	
9/23/04 10:02	0.0154	13.364	
9/23/04 10:02	0.0172	13.394	
9/23/04 10:02	0.0190	13.288	
9/23/04 10:02	0.0209	13.258	
9/23/04 10:02	0.0230	13.055	
9/23/04 10:02	0.0252	12.927	
9/23/04 10:02	0.0276	12.798	
9/23/04 10:02	0.0300	12.755	
9/23/04 10:03	0.0326	12.700	
9/23/04 10:03	0.0354	12.691	
9/23/04 10:03	0.0384	12.682	
9/23/04 10:03	0.0415	12.645	
9/23/04 10:03	0.0448	12.663	
9/23/04 10:04	0.0483	12.716	
9/23/04 10:04	0.0520	12.698	
9/23/04 10:04	0.0559	12.744	
9/23/04 10:04	0.0600	12.719	
9/23/04 10:05	0.0644	12.737	
9/23/04 10:05	0.0691	12.737	
9/23/04 10:05	0.0740	12.771	
9/23/04 10:05	0.0793	12.780	
9/23/04 10:06	0.0848	12.812	
9/23/04 10:06	0.0906	12.792	
9/23/04 10:06	0.0969	12.788	
9/23/04 10:07	0.1034	12.757	
9/23/04 10:07	0.1104	12.792	
9/23/04 10:08	0.1178	12.829	
9/23/04 10:08	0.1256	12.813	
9/23/04 10:09	0.1339	12.852	
9/23/04 10:09	0.1427	12.808	
9/23/04 10:10	0.1520	12.861	
9/23/04 10:10	0.1619	12.836	
9/23/04 10:11	0.1723	12.847	
9/23/04 10:12	0.1834	12.834	
9/23/04 10:12	0.1951	12.808	
9/23/04 10:13	0.2075	12.834	
9/23/04 10:14	0.2207	12.850	
9/23/04 10:15	0.2346	12.816	
9/23/04 10:16	0.2494	12.806	
9/23/04 10:17	0.2650	12.848	
9/23/04 10:18	0.2816	12.854	
9/23/04 10:19	0.2991	12.886	
9/23/04 10:20	0.3177	12.905	
9/23/04 10:21	0.3374	12.850	
9/23/04 10:22	0.3583	12.868	
9/23/04 10:23	0.3804	12.887	
9/23/04 10:25	0.4038	12.862	
9/23/04 10:26	0.4286	12.905	
9/23/04 10:28	0.4548	12.871	
9/23/04 10:30	0.4826	12.917	
9/23/04 10:31	0.5121	12.821	
9/23/04 10:33	0.5433	12.889	
9/23/04 10:35	0.5764	12.876	
9/23/04 10:37	0.6114	12.862	
9/23/04 10:40	0.6485	12.903	
9/23/04 10:42	0.6878	12.919	
9/23/04 10:44	0.7295	12.949	
9/23/04 10:47	0.7736	12.880	
9/23/04 10:50	0.8203	12.802	
9/23/04 10:53	0.8698	12.805	
9/23/04 10:56	0.9222	12.834	
9/23/04 10:59	0.9777	12.871	
9/23/04 11:03	1.0365	12.823	
9/23/04 11:07	1.0988	12.764	
9/23/04 11:11	1.1648	12.791	
9/23/04 11:15	1.2347	12.821	
9/23/04 11:19	1.3088	12.816	
9/23/04 11:24	1.3872	12.981	
9/23/04 11:29	1.4703	12.871	
9/23/04 11:34	1.5536	12.837	
9/23/04 11:39	1.6370	12.985	
9/23/04 11:44	1.7203	13.010	
9/23/04 11:49	1.8036	12.985	
9/23/04 11:54	1.8870	12.981	
9/23/04 11:59	1.9703	12.919	
9/23/04 12:03	2.0420	12.971	

P-2 Pumping

Date/Time	Elapsed Time (Hours)	Drawdown (feet)	
9/23/04 8:54	-1.1111	0.000	
9/23/04 8:59	-1.0278	0.000	
9/23/04 9:04	-0.9445	0.004	
9/23/04 9:09	-0.8611	0.004	
9/23/04 9:14	-0.7778	0.008	
9/23/04 9:19	-0.6945	0.008	
9/23/04 9:24	-0.6111	0.010	
9/23/04 9:29	-0.5278	0.010	
9/23/04 9:34	-0.4445	0.011	
9/23/04 9:39	-0.3611	0.012	
9/23/04 9:44	-0.2778	0.013	
9/23/04 9:49	-0.1945	0.012	
9/23/04 9:54	-0.1111	0.015	
9/23/04 9:59	-0.0278	0.019	
9/23/04 10:01	0.0139	0.055	step 1
9/23/04 10:02	0.0264	0.111	
9/23/04 10:03	0.0431	0.176	
9/23/04 10:04	0.0556	0.212	
9/23/04 10:04	0.0639	0.234	
9/23/04 10:06	0.0931	0.287	
9/23/04 10:08	0.1306	0.339	
9/23/04 10:09	0.1389	0.345	
9/23/04 10:12	0.1931	0.390	
9/23/04 10:14	0.2222	0.410	
9/23/04 10:18	0.2889	0.442	
9/23/04 10:19	0.3056	0.446	
9/23/04 10:24	0.3889	0.474	
9/23/04 10:28	0.4597	0.494	
9/23/04 10:29	0.4722	0.496	
9/23/04 10:34	0.5556	0.513	
9/23/04 10:39	0.6389	0.528	
9/23/04 10:44	0.7222	0.541	
9/23/04 10:45	0.7431	0.545	
9/23/04 10:49	0.8056	0.552	
9/23/04 10:54	0.8889	0.563	
9/23/04 10:59	0.9722	0.573	
9/23/04 11:04	1.0556	0.582	
9/23/04 11:09	1.1389	0.588	
9/23/04 11:11	1.1722	0.597	
9/23/04 11:14	1.2222	0.599	
9/23/04 11:19	1.3056	0.608	
9/23/04 11:24	1.3889	0.616	
9/23/04 11:29	1.4722	0.623	
9/23/04 11:34	1.5556	0.629	
9/23/04 11:39	1.6389	0.636	
9/23/04 11:44	1.7222	0.642	
9/23/04 11:49	1.8056	0.646	
9/23/04 11:50	1.8264	0.649	
9/23/04 11:54	1.8889	0.653	
9/23/04 11:59	1.9722	0.657	
9/23/04 12:04	2.0556	0.666	step 2
9/23/04 12:05	2.0764	0.700	
9/23/04 12:07	2.1097	0.754	
9/23/04 12:09	2.1389	0.782	
9/23/04 12:11	2.1722	0.805	
9/23/04 12:14	2.2222	0.827	
9/23/04 12:19	2.3056	0.853	
9/23/04 12:19	2.3139	0.857	
9/23/04 12:24	2.3889	0.870	
9/23/04 12:29	2.4722	0.885	
9/23/04 12:34	2.5556	0.897	
9/23/04 12:39	2.6389	0.906	
9/23/04 12:40	2.6514	0.908	
9/23/04 12:44	2.7222	0.917	
9/23/04 12:49	2.8056	0.923	
9/23/04 12:54	2.8889	0.932	
9/23/04 12:59	2.9722	0.938	
9/23/04 13:04	3.0556	0.945	
9/23/04 13:05	3.0764	0.960	
9/23/04 13:09	3.1389	1.001	step 3
9/23/04 13:10	3.1597	1.011	
9/23/04 13:14	3.2222	1.026	
9/23/04 13:19	3.3056	1.037	
9/23/04 13:24	3.3889	1.041	
9/23/04 13:29	3.4722	1.050	
9/23/04 13:34	3.5556	1.057	
9/23/04 13:35	3.5806	1.063	
9/23/04 13:39	3.6389	1.061	
9/23/04 13:44	3.7222	1.065	
9/23/04 13:49	3.8056	1.070	
9/23/04 13:54	3.8889	1.074	
9/23/04 13:59	3.9722	1.080	
9/23/04 14:04	4.0556	1.087	
9/23/04 14:07	4.1056	1.117	step 4
9/23/04 14:09	4.1389	1.158	
9/23/04 14:10	4.1514	1.168	
9/23/04 14:14	4.2222	1.202	
9/23/04 14:18	4.2847	1.220	
9/23/04 14:19	4.3056	1.224	

P-1 Pumping

Date/Time	Elapsed Time (Hours)	Drawdown (feet)	
9/23/04 8:46	-1.2463	0.000	
9/23/04 8:51	-1.1630	-0.006	
9/23/04 8:56	-1.0797	-0.004	
9/23/04 9:01	-0.9963	0.000	
9/23/04 9:06	-0.9130	0.004	
9/23/04 9:11	-0.8297	0.008	
9/23/04 9:16	-0.7463	0.010	
9/23/04 9:21	-0.6630	0.014	
9/23/04 9:26	-0.5797	0.014	
9/23/04 9:31	-0.4963	0.016	
9/23/04 9:36	-0.4130	0.018	
9/23/04 9:41	-0.3297	0.020	
9/23/04 9:46	-0.2463	0.022	
9/23/04 9:51	-0.1630	0.024	
9/23/04 9:56	-0.0797	0.026	
9/23/04 10:01	0.0037	0.030	step 1
9/23/04 10:03	0.0328	0.052	
9/23/04 10:05	0.0745	0.108	
9/23/04 10:06	0.0870	0.119	
9/23/04 10:09	0.1328	0.159	
9/23/04 10:11	0.1703	0.183	
9/23/04 10:14	0.2245	0.211	
9/23/04 10:16	0.2537	0.222	
9/23/04 10:21	0.3370	0.252	
9/23/04 10:23	0.3745	0.262	
9/23/04 10:26	0.4203	0.272	
9/23/04 10:31	0.5037	0.290	
9/23/04 10:36	0.5870	0.308	
9/23/04 10:38	0.6245	0.314	
9/23/04 10:41	0.6703	0.320	
9/23/04 10:46	0.7537	0.332	
9/23/04 10:51	0.8370	0.344	
9/23/04 10:56	0.9203	0.353	
9/23/04 11:01	1.0037	0.363	
9/23/04 11:01	1.0120	0.365	
9/23/04 11:06	1.0870	0.373	
9/23/04 11:11	1.1703	0.381	
9/23/04 11:16	1.2537	0.389	
9/23/04 11:21	1.3370	0.397	
9/23/04 11:26	1.4203	0.405	
9/23/04 11:31	1.5037	0.413	
9/23/04 11:33	1.5412	0.417	
9/23/04 11:36	1.5870	0.419	
9/23/04 11:41	1.6703	0.427	
9/23/04 11:46	1.7537	0.433	
9/23/04 11:51	1.8370	0.439	
9/23/04 11:56	1.9203	0.445	
9/23/04 12:01	2.0037	0.451	
9/23/04 12:06	2.0870	0.468	step 2
9/23/04 12:06	2.0912	0.469	
9/23/04 12:11	2.1703	0.510	
9/23/04 12:12	2.1953	0.520	
9/23/04 12:16	2.2537	0.536	
9/23/04 12:21	2.3370	0.558	
9/23/04 12:26	2.4162	0.572	
9/23/04 12:26	2.4203	0.572	
9/23/04 12:31	2.5037	0.584	
9/23/04 12:36	2.5870	0.594	
9/23/04 12:41	2.6703	0.605	
9/23/04 12:46	2.7537	0.614	
9/23/04 12:51	2.8370	0.622	
9/23/04 12:52	2.8537	0.623	
9/23/04 12:56	2.9203	0.629	
9/23/04 13:01	3.0037	0.635	
9/23/04 13:06	3.0870	0.647	step 3
9/23/04 13:11	3.1703	0.671	
9/23/04 13:12	3.1870	0.675	
9/23/04 13:16	3.2537	0.687	
9/23/04 13:21	3.3370	0.695	
9/23/04 13:26	3.4203		

P-3 Pumping

P-2 Pumping

P-1 Pumping

P-3 Pumping			P-2 Pumping			P-1 Pumping		
Date/Time	Elapsed Time (Hours)	Drawdown (feet)	Date/Time	Elapsed Time (Hours)	Drawdown (feet)	Date/Time	Elapsed Time (Hours)	Drawdown (feet)
9/23/04 12:03	2.0421	12.969	9/23/04 14:24	4.3889	1.237	9/23/04 14:51	4.8370	0.855
9/23/04 12:03	2.0421	12.965	9/23/04 14:29	4.4722	1.246	9/23/04 14:56	4.9203	0.859
9/23/04 12:03	2.0422	13.000	9/23/04 14:34	4.5556	1.244	9/23/04 15:01	5.0037	0.863
9/23/04 12:03	2.0423	12.974	9/23/04 14:39	4.6389	1.248	9/23/04 15:06	5.0870	0.867
9/23/04 12:03	2.0424	12.967	9/23/04 14:44	4.7222	1.250	9/23/04 15:11	5.1703	0.871
9/23/04 12:03	2.0425	12.988	9/23/04 14:49	4.8056	1.255	9/23/04 15:16	5.2537	0.875
9/23/04 12:03	2.0426	12.977	9/23/04 14:54	4.8889	1.259	9/23/04 15:21	5.3370	0.877
9/23/04 12:03	2.0426	12.961	9/23/04 14:59	4.9722	1.261	9/23/04 15:26	5.4120	0.881
9/23/04 12:03	2.0427	12.995	9/23/04 15:04	5.0556	1.267	9/23/04 15:26	5.4203	0.881
9/23/04 12:03	2.0428	12.931	9/23/04 15:05	5.0681	1.270	9/23/04 15:31	5.5037	0.885
9/23/04 12:03	2.0429	12.961	9/23/04 15:09	5.1389	1.272	9/23/04 15:36	5.5870	0.887
9/23/04 12:03	2.0430	12.993	9/23/04 15:14	5.2222	1.278	9/23/04 15:41	5.6703	0.889
9/23/04 12:03	2.0431	12.949	9/23/04 15:19	5.3056	1.278	9/23/04 15:46	5.7537	0.891
9/23/04 12:03	2.0431	13.009	9/23/04 15:24	5.3889	1.282	9/23/04 15:51	5.8370	0.893
9/23/04 12:03	2.0432	12.927	9/23/04 15:29	5.4722	1.284	9/23/04 15:56	5.9203	0.897
9/23/04 12:03	2.0433	12.977	9/23/04 15:34	5.5556	1.286	9/23/04 16:01	6.0037	0.897
9/23/04 12:03	2.0434	12.991	9/23/04 15:39	5.6389	1.288	9/23/04 16:06	6.0870	0.901
9/23/04 12:03	2.0435	12.922	9/23/04 15:44	5.7222	1.293	9/23/04 16:11	6.1703	0.875 recovery
9/23/04 12:03	2.0436	12.904	9/23/04 15:49	5.8056	1.293	9/23/04 16:12	6.1912	0.826
9/23/04 12:03	2.0436	12.977	9/23/04 15:54	5.8889	1.298	9/23/04 16:14	6.2162	0.772
9/23/04 12:03	2.0437	12.954	9/23/04 15:59	5.9722	1.299	9/23/04 16:15	6.2453	0.720
9/23/04 12:03	2.0438	12.957	9/23/04 16:04	6.0556	1.299	9/23/04 16:16	6.2537	0.711
9/23/04 12:03	2.0439	12.964	9/23/04 16:09	6.1389	1.303	9/23/04 16:18	6.2870	0.667
9/23/04 12:03	2.0441	12.934	9/23/04 16:10	6.1597	1.207	9/23/04 16:21	6.3370	0.617
9/23/04 12:03	2.0442	12.954	9/23/04 16:11	6.1681	1.142	9/23/04 16:21	6.3412	0.613
9/23/04 12:03	2.0443	12.938	9/23/04 16:11	6.1764	1.082	9/23/04 16:26	6.4203	0.562
9/23/04 12:03	2.0445	12.950	9/23/04 16:12	6.1847	1.028	9/23/04 16:26	6.4245	0.560
9/23/04 12:03	2.0446	12.932	9/23/04 16:12	6.1972	0.962	9/23/04 16:31	6.5037	0.520
9/23/04 12:03	2.0448	12.932	9/23/04 16:13	6.2097	0.906	9/23/04 16:33	6.5328	0.508
9/23/04 12:03	2.0449	12.933	9/23/04 16:14	6.2222	0.861	9/23/04 16:36	6.5870	0.490
9/23/04 12:03	2.0451	12.979	9/23/04 16:14	6.2264	0.848	9/23/04 16:41	6.6703	0.465
9/23/04 12:03	2.0453	12.947	9/23/04 16:15	6.2472	0.792	9/23/04 16:43	6.7078	0.457
9/23/04 12:03	2.0455	12.975	9/23/04 16:17	6.2722	0.734	9/23/04 16:46	6.7537	0.447
9/23/04 12:03	2.0457	12.979	9/23/04 16:19	6.3056	0.678	9/23/04 16:51	6.8370	0.429
9/23/04 12:03	2.0459	12.977	9/23/04 16:19	6.3097	0.672	9/23/04 16:56	6.9203	0.415
9/23/04 12:03	2.0461	12.993	9/23/04 16:22	6.3556	0.618	9/23/04 17:00	6.9828	0.405
9/23/04 12:03	2.0464	12.956	9/23/04 16:24	6.3889	0.586	9/23/04 17:01	7.0037	0.403
9/23/04 12:03	2.0466	12.940	9/23/04 16:25	6.4139	0.567	9/23/04 17:06	7.0870	0.391
9/23/04 12:03	2.0469	12.942	9/23/04 16:29	6.4722	0.528	9/23/04 17:11	7.1703	0.381
9/23/04 12:03	2.0472	13.002	9/23/04 16:31	6.5014	0.515	9/23/04 17:16	7.2537	0.371
9/23/04 12:04	2.0475	13.000	9/23/04 16:34	6.5556	0.492	9/23/04 17:21	7.3370	0.363
9/23/04 12:04	2.0479	12.954	9/23/04 16:38	6.6264	0.463	9/23/04 17:26	7.4203	0.357
9/23/04 12:04	2.0482	13.155	9/23/04 16:39	6.6389	0.461	9/23/04 17:28	7.4620	0.353
9/23/04 12:04	2.0486	13.658	9/23/04 16:44	6.7222	0.436	9/23/04 17:31	7.5037	0.351
9/23/04 12:04	2.0490	14.407	9/23/04 16:49	6.8056	0.414	9/23/04 17:36	7.5870	0.347
9/23/04 12:04	2.0494	14.965	9/23/04 16:49	6.8139	0.412	9/23/04 17:41	7.6703	0.341
9/23/04 12:04	2.0498	15.441	9/23/04 16:54	6.8889	0.399	9/23/04 17:46	7.7537	0.336
9/23/04 12:04	2.0502	16.020	9/23/04 16:59	6.9722	0.384	9/23/04 17:51	7.8370	0.332
9/23/04 12:04	2.0507	16.752	9/23/04 17:04	7.0556	0.371	9/23/04 17:56	7.9203	0.332
9/23/04 12:04	2.0512	17.365	9/23/04 17:09	7.1347	0.360	9/23/04 18:01	8.0037	0.330
9/23/04 12:04	2.0517	17.871	9/23/04 17:09	7.1389	0.360	9/23/04 18:06	8.0870	0.328
9/23/04 12:04	2.0523	18.857	9/23/04 17:14	7.2222	0.351	9/23/04 18:11	8.1703	0.328
9/23/04 12:05	2.0640	21.520	9/23/04 17:19	7.3056	0.341	9/23/04 18:16	8.2537	0.328
9/23/04 12:06	2.0807	21.530	9/23/04 17:24	7.3889	0.332	9/23/04 18:21	8.3370	0.330
9/23/04 12:11	2.1640	21.570	9/23/04 17:29	7.4722	0.326	9/23/04 18:26	8.4203	0.330
9/23/04 12:12	2.1807	21.570	9/23/04 17:34	7.5556	0.320	9/23/04 18:31	8.5037	0.330
9/23/04 12:13	2.1973	21.560	9/23/04 17:39	7.6389	0.318	9/23/04 18:36	8.5870	0.332
9/23/04 12:14	2.2140	21.560	9/23/04 17:44	7.7222	0.313	9/23/04 18:41	8.6703	0.332
9/23/04 12:18	2.2807	21.620	9/23/04 17:48	7.7972	0.309	9/23/04 18:46	8.7537	0.332
9/23/04 12:19	2.2973	21.630	9/23/04 17:49	7.8056	0.309	9/23/04 18:51	8.8370	0.332
9/23/04 12:20	2.3140	21.620	9/23/04 17:54	7.8889	0.309	9/23/04 18:56	8.9203	0.334
9/23/04 12:22	2.3473	21.590	9/23/04 17:59	7.9722	0.306	9/23/04 19:01	9.0037	0.332
9/23/04 12:25	2.3973	21.610	9/23/04 18:04	8.0556	0.307	9/23/04 19:06	9.0870	0.332
9/23/04 12:30	2.4807	21.620	9/23/04 18:09	8.1389	0.307	9/23/04 19:11	9.1703	0.332
9/23/04 12:36	2.5807	21.590	9/23/04 18:14	8.2222	0.309	9/23/04 19:16	9.2537	0.332
9/23/04 12:40	2.6473	21.600	9/23/04 18:19	8.3056	0.309	9/23/04 19:21	9.3370	0.332
9/23/04 13:06	3.0807	26.010	9/23/04 18:24	8.3889	0.313	9/23/04 19:26	9.4203	0.330
9/23/04 13:08	3.1140	26.400	9/23/04 18:29	8.4722	0.313	9/23/04 19:31	9.5037	0.330
9/23/04 13:09	3.1307	25.960	9/23/04 18:34	8.5556	0.313	9/23/04 19:36	9.5870	0.330
9/23/04 13:10	3.1473	25.960	9/23/04 18:39	8.6389	0.313	9/23/04 19:41	9.6703	0.330
9/23/04 13:11	3.1640	25.950	9/23/04 18:44	8.7222	0.313	9/23/04 19:46	9.7537	0.328
9/23/04 13:13	3.1973	25.950	9/23/04 18:49	8.8056	0.315	9/23/04 19:51	9.8370	0.328
9/23/04 13:14	3.2140	26.040	9/23/04 18:54	8.8889	0.315	9/23/04 19:56	9.9203	0.328
9/23/04 13:16	3.2473	26.040	9/23/04 18:59	8.9722	0.315	9/23/04 20:01	10.0037	0.326
9/23/04 13:19	3.2973	25.320	9/23/04 19:04	9.0556	0.313	9/23/04 20:06	10.0870	0.326
9/23/04 13:20	3.3140	25.180	9/23/04 19:09	9.1389	0.313	9/23/04 20:11	10.1703	0.324
9/23/04 13:24	3.3807	25.200	9/23/04 19:14	9.2222	0.313	9/23/04 20:16	10.2537	0.324
9/23/04 13:26	3.4140	25.260	9/23/04 19:19	9.3056	0.311	9/23/04 20:21	10.3370	0.324
9/23/04 13:28	3.4473	25.290	9/23/04 19:24	9.3889	0.311	9/23/04 20:26	10.4203	0.324
9/23/04 13:30	3.4807	25.300	9/23/04 19:29	9.4722	0.309	9/23/04 20:31	10.5037	0.322
9/23/04 13:35	3.5640	25.290	9/23/04 19:34	9.5556	0.309	9/23/04 20:36	10.5870	0.320
9/23/04 13:40	3.6473	25.170	9/23/04 19:39	9.6389	0.307	9/23/04 20:41	10.6703	0.322
9/23/04 13:57	3.9307	25.280	9/23/04 19:44	9.7222	0.306	9/23/04 20:46	10.7537	0.322
9/23/04 13:59	3.9640	25.290	9/23/04 19:49	9.8056	0.304	9/23/04 20:51	10.8370	0.320
9/23/04 14:00	3.9807	25.300	9/23/04 19:54	9.8889	0.304	9/23/04 20:56	10.9203	0.318
9/23/04 14:07	4.0973	33.060	9/23/04 19:59	9.9722	0.302	9/23/04 21:01	11.0037	0.318
9/23/04 14:10	4.1473	32.800	9/23/04 20:04	10.0556	0.302	9/23/04 21:06	11.0870	0.315
9/23/04 14:11	4.1640	32.660	9/23/04 20:09	10.1389	0.300	9/23/04 21:11	11.1703	0.316
9/23/04 14:12	4.1807	32.880	9/23/04 20:14	10.2222	0.298	9/23/04 21:16	11.2537	0.316

P-3 Pumping

P-2 Pumping

P-1 Pumping

P-3 Pumping			P-2 Pumping			P-1 Pumping		
Date/Time	Elapsed Time (Hours)	Drawdown (feet)	Date/Time	Elapsed Time (Hours)	Drawdown (feet)	Date/Time	Elapsed Time (Hours)	Drawdown (feet)
9/23/04 14:13	4.1973	33.360	9/23/04 20:19	10.3056	0.298	9/23/04 21:21	11.3370	0.316
9/23/04 14:15	4.2307	32.800	9/23/04 20:24	10.3889	0.298	9/23/04 21:26	11.4203	0.316
9/23/04 14:19	4.2973	32.770	9/23/04 20:29	10.4722	0.296	9/23/04 21:31	11.5037	0.314
9/23/04 14:22	4.3473	32.780	9/23/04 20:34	10.5556	0.296	9/23/04 21:36	11.5870	0.314
9/23/04 14:24	4.3807	32.790	9/23/04 20:39	10.6389	0.293	9/23/04 21:41	11.6703	0.312
9/23/04 14:26	4.4140	32.680	9/23/04 20:44	10.7222	0.291	9/23/04 21:46	11.7537	0.310
9/23/04 14:31	4.4973	32.230	9/23/04 20:49	10.8056	0.291	9/23/04 21:51	11.8370	0.310
9/23/04 14:36	4.5807	31.850	9/23/04 20:54	10.8889	0.292	9/23/04 21:56	11.9203	0.310
9/23/04 16:04	6.0473	31.730	9/23/04 20:59	10.9722	0.289	9/23/04 22:01	12.0037	0.308
9/23/04 16:03	6.0640	31.720	9/23/04 21:04	11.0556	0.287	9/23/04 22:06	12.0870	0.308
9/23/04 16:04	6.0807	31.700	9/23/04 21:09	11.1389	0.287	9/23/04 22:11	12.1703	0.307
9/23/04 16:05	6.0973	31.720	9/23/04 21:14	11.2222	0.285	9/23/04 22:16	12.2537	0.305
9/23/04 16:06	6.1140	31.730	9/23/04 21:19	11.3056	0.285	9/23/04 22:21	12.3370	0.304
9/23/04 16:07	6.1307	31.730	9/23/04 21:24	11.3889	0.285	9/23/04 22:26	12.4203	0.304
9/23/04 16:09	6.1740	19.519	9/23/04 21:29	11.4722	0.285	9/23/04 22:31	12.5037	0.302
9/23/04 16:09	6.1743	18.249	9/23/04 21:34	11.5556	0.283	9/23/04 22:36	12.5870	0.302
9/23/04 16:09	6.1746	15.654	9/23/04 21:39	11.6389	0.281	9/23/04 22:41	12.6703	0.302
9/23/04 16:09	6.1749	12.824	9/23/04 21:44	11.7222	0.280	9/23/04 22:46	12.7537	0.300
9/23/04 16:09	6.1753	10.396	9/23/04 21:49	11.8056	0.278	9/23/04 22:51	12.8370	0.298
9/23/04 16:09	6.1756	8.491	9/23/04 21:54	11.8889	0.277	9/23/04 22:56	12.9203	0.298
9/23/04 16:09	6.1760	6.892	9/23/04 21:59	11.9722	0.276	9/23/04 23:01	13.0037	0.296
9/23/04 16:09	6.1765	5.497	9/23/04 22:04	12.0556	0.274	9/23/04 23:06	13.0870	0.294
9/23/04 16:09	6.1769	4.464	9/23/04 22:09	12.1389	0.275	9/23/04 23:11	13.1703	0.294
9/23/04 16:09	6.1773	3.700	9/23/04 22:14	12.2222	0.272	9/23/04 23:16	13.2537	0.292
9/23/04 16:09	6.1778	2.818	9/23/04 22:19	12.3056	0.272	9/23/04 23:21	13.3370	0.290
9/23/04 16:09	6.1783	2.176	9/23/04 22:24	12.3889	0.270	9/23/04 23:26	13.4203	0.290
9/23/04 16:09	6.1788	1.827	9/23/04 22:29	12.4722	0.268	9/23/04 23:31	13.5037	0.288
9/23/04 16:09	6.1794	1.642	9/23/04 22:34	12.5556	0.268	9/23/04 23:36	13.5870	0.288
9/23/04 16:09	6.1800	1.544	9/23/04 22:39	12.6389	0.266	9/23/04 23:41	13.6703	0.286
9/23/04 16:10	6.1806	1.568	9/23/04 22:44	12.7222	0.264	9/23/04 23:46	13.7537	0.286
9/23/04 16:10	6.1813	1.593	9/23/04 22:49	12.8056	0.264	9/23/04 23:51	13.8370	0.284
9/23/04 16:10	6.1821	1.628	9/23/04 22:54	12.8889	0.263	9/23/04 23:56	13.9203	0.284
9/23/04 16:10	6.1828	1.670	9/23/04 22:59	12.9722	0.261	9/24/04 0:01	14.0037	0.282
9/23/04 16:10	6.1836	1.689	9/23/04 23:04	13.0556	0.261	9/24/04 0:06	14.0870	0.280
9/23/04 16:10	6.1845	1.671	9/23/04 23:09	13.1389	0.264	9/24/04 0:11	14.1703	0.280
9/23/04 16:10	6.1854	1.656	9/23/04 23:10	13.1514	0.257	9/24/04 0:16	14.2537	0.278
9/23/04 16:10	6.1864	1.618	9/23/04 23:14	13.2222	0.257	9/24/04 0:21	14.3370	0.276
9/23/04 16:10	6.1874	1.560	9/23/04 23:19	13.3056	0.255	9/24/04 0:26	14.4203	0.276
9/23/04 16:10	6.1885	1.515	9/23/04 23:24	13.3889	0.255	9/24/04 0:31	14.5037	0.272
9/23/04 16:10	6.1897	1.459	9/23/04 23:29	13.4722	0.253	9/24/04 0:36	14.5870	0.272
9/23/04 16:10	6.1909	1.403	9/23/04 23:34	13.5556	0.251	9/24/04 0:41	14.6703	0.270
9/23/04 16:10	6.1922	1.359	9/23/04 23:39	13.6389	0.251	9/24/04 0:46	14.7537	0.270
9/23/04 16:10	6.1936	1.310	9/23/04 23:44	13.7222	0.246	9/24/04 0:51	14.8370	0.268
9/23/04 16:10	6.1951	1.263	9/23/04 23:49	13.8056	0.246	9/24/04 0:56	14.9203	0.266
9/23/04 16:10	6.1966	1.216	9/23/04 23:54	13.8889	0.246	9/24/04 1:01	15.0037	0.264
9/23/04 16:11	6.1983	1.177	9/23/04 23:59	13.9722	0.244	9/24/04 1:06	15.0870	0.262
9/23/04 16:11	6.2000	1.135	9/24/04 0:04	14.0556	0.242	9/24/04 1:11	15.1703	0.262
9/23/04 16:11	6.2018	1.099	9/24/04 0:09	14.1389	0.242	9/24/04 1:16	15.2537	0.260
9/23/04 16:11	6.2038	1.060	9/24/04 0:14	14.2222	0.240	9/24/04 1:21	15.3370	0.258
9/23/04 16:11	6.2059	1.020	9/24/04 0:19	14.3056	0.237	9/24/04 1:26	15.4203	0.258
9/23/04 16:11	6.2081	0.990	9/24/04 0:24	14.3889	0.235	9/24/04 1:31	15.5037	0.256
9/23/04 16:11	6.2104	0.960	9/24/04 0:29	14.4722	0.235	9/24/04 1:36	15.5870	0.256
9/23/04 16:11	6.2129	0.927	9/24/04 0:34	14.5556	0.236	9/24/04 1:41	15.6703	0.254
9/23/04 16:12	6.2155	0.897	9/24/04 0:39	14.6389	0.231	9/24/04 1:46	15.7537	0.254
9/23/04 16:12	6.2183	0.869	9/24/04 0:44	14.7222	0.229	9/24/04 1:51	15.8370	0.250
9/23/04 16:12	6.2212	0.844	9/24/04 0:49	14.8056	0.229	9/24/04 1:56	15.9203	0.250
9/23/04 16:12	6.2243	0.816	9/24/04 0:54	14.8889	0.227	9/24/04 2:01	16.0037	0.248
9/23/04 16:12	6.2276	0.793	9/24/04 0:59	14.9722	0.225	9/24/04 2:06	16.0870	0.248
9/23/04 16:13	6.2311	0.770	9/24/04 1:04	15.0556	0.223	9/24/04 2:11	16.1703	0.246
9/23/04 16:13	6.2348	0.738	9/24/04 1:09	15.1389	0.220	9/24/04 2:16	16.2537	0.246
9/23/04 16:13	6.2387	0.706	9/24/04 1:14	15.2222	0.220	9/24/04 2:21	16.3370	0.244
9/23/04 16:13	6.2429	0.683	9/24/04 1:19	15.3056	0.216	9/24/04 2:26	16.4203	0.242
9/23/04 16:14	6.2473	0.653	9/24/04 1:24	15.3889	0.218	9/24/04 2:31	16.5037	0.240
9/23/04 16:14	6.2519	0.630	9/24/04 1:29	15.4722	0.216	9/24/04 2:36	16.5870	0.240
9/23/04 16:14	6.2569	0.602	9/24/04 1:34	15.5556	0.214	9/24/04 2:41	16.6703	0.238
9/23/04 16:14	6.2621	0.577	9/24/04 1:39	15.6389	0.212	9/24/04 2:46	16.7537	0.236
9/23/04 16:15	6.2676	0.547	9/24/04 1:44	15.7222	0.212	9/24/04 2:51	16.8370	0.236
9/23/04 16:15	6.2735	0.522	9/24/04 1:49	15.8056	0.210	9/24/04 2:56	16.9203	0.234
9/23/04 16:15	6.2797	0.494	9/24/04 1:54	15.8889	0.209	9/24/04 3:01	17.0037	0.234
9/23/04 16:16	6.2863	0.467	9/24/04 1:59	15.9722	0.207	9/24/04 3:06	17.0870	0.232
9/23/04 16:16	6.2933	0.444	9/24/04 2:02	16.0306	0.206	9/24/04 3:11	17.1703	0.230
9/23/04 16:17	6.3006	0.426	9/24/04 2:04	16.0556	0.208	9/24/04 3:16	17.2537	0.230
9/23/04 16:17	6.3085	0.403	9/24/04 2:09	16.1389	0.206	9/24/04 3:21	17.3370	0.228
9/23/04 16:18	6.3168	0.380	9/24/04 2:14	16.2222	0.203	9/24/04 3:26	17.4203	0.228
9/23/04 16:18	6.3256	0.358	9/24/04 2:19	16.3056	0.201	9/24/04 3:31	17.5037	0.226
9/23/04 16:19	6.3349	0.332	9/24/04 2:24	16.3889	0.199	9/24/04 3:36	17.5870	0.224
9/23/04 16:19	6.3447	0.305	9/24/04 2:29	16.4722	0.197	9/24/04 3:41	17.6703	0.224
9/23/04 16:20	6.3552	0.280	9/24/04 2:34	16.5556	0.199	9/24/04 3:46	17.7537	0.222
9/23/04 16:21	6.3662	0.256	9/24/04 2:39	16.6389	0.195	9/24/04 3:51	17.8370	0.220
9/23/04 16:21	6.3780	0.233	9/24/04 2:44	16.7222	0.195	9/24/04 3:56	17.9203	0.220
9/23/04 16:22	6.3904	0.215	9/24/04 2:49	16.8056	0.192	9/24/04 4:01	18.0037	0.220
9/23/04 16:23	6.4035	0.196	9/24/04 2:54	16.8889	0.193	9/24/04 4:06	18.0870	0.220
9/23/04 16:24	6.4175	0.178	9/24/04 2:59	16.9722	0.193	9/24/04 4:11	18.1703	0.218
9/23/04 16:25	6.4322	0.167	9/24/04 3:04	17.0556	0.188	9/24/04 4:16	18.2537	0.218
9/23/04 16:26	6.4479	0.156	9/24/04 3:09	17.1389	0.188	9/24/04 4:21	18.3370	0.216
9/23/04 16:27	6.4644	0.145	9/24/04 3:14	17.2222	0.186	9/24/04 4:26	18.4203	0.216
9/23/04 16:28	6.4820	0.127	9/24/04 3:19	17.3056	0.186	9/24/04 4:31	18.5037	0.216
9/23/04 16:29	6.5006	0.107	9/24/04 3:24	17.3889	0.184			
9/23/04 16:30	6.5203	0.091	9/24/04 3:29	17.4722	0.182			

P-3 Pumping

Date/Time	Elapsed Time (Hours)	Drawdown (feet)
9/23/04 16:31	6.5411	0.081
9/23/04 16:32	6.5632	0.069
9/23/04 16:34	6.5866	0.058
9/23/04 16:35	6.6114	0.049
9/23/04 16:37	6.6377	0.037
9/23/04 16:39	6.6655	0.038
End of data		

P-2 Pumping

Date/Time	Elapsed Time (Hours)	Drawdown (feet)
9/24/04 3:34	17.5556	0.182
9/24/04 3:39	17.6389	0.179
9/24/04 3:44	17.7222	0.179
9/24/04 3:49	17.8056	0.177
9/24/04 3:54	17.8889	0.177
9/24/04 3:59	17.9722	0.175
9/24/04 4:04	18.0556	0.175
9/24/04 4:09	18.1389	0.175
9/24/04 4:14	18.2222	0.173
9/24/04 4:19	18.3056	0.173
9/24/04 4:24	18.3889	0.173
9/24/04 4:29	18.4722	0.171
9/24/04 4:34	18.5556	0.171
9/24/04 4:39	18.6389	0.171
9/24/04 4:44	18.7222	0.169
9/24/04 4:49	18.8056	0.169
9/24/04 4:54	18.8889	0.169
9/24/04 4:59	18.9722	0.169
9/24/04 5:04	19.0556	0.167
9/24/04 5:09	19.1389	0.167
9/24/04 5:14	19.2222	0.167
9/24/04 5:19	19.3056	0.164
9/24/04 5:24	19.3889	0.165
9/24/04 5:29	19.4722	0.164
9/24/04 5:34	19.5556	0.164
9/24/04 5:39	19.6389	0.162
End of Data		

P-1 Pumping

Date/Time	Elapsed Time (Hours)	Drawdown (feet)
9/24/04 4:36	18.5870	0.214
9/24/04 4:41	18.6703	0.214
9/24/04 4:46	18.7537	0.214
9/24/04 4:51	18.8370	0.214
9/24/04 4:56	18.9203	0.212
9/24/04 5:01	19.0037	0.214
9/24/04 5:06	19.0870	0.212
9/24/04 5:11	19.1703	0.212
9/24/04 5:16	19.2537	0.210
9/24/04 5:21	19.3370	0.210
9/24/04 5:26	19.4203	0.210
9/24/04 5:31	19.5037	0.210
9/24/04 5:36	19.5870	0.210
9/24/04 5:41	19.6703	0.208
End of Data		

APPENDIX I

Background Water Quality Laboratory Reports

Lab Project Summary

P1

Lab Project #: N0409355
Client: CH2M Hill
4350 W. Cypress St

Total Pages: 10

Tampa FL 33607
Phone: 813-874-6522
Fax: 813-874-3056
E-mail:
Client Project Name: Ave Maria
Laboratory Contact: Andy Konopacki

QUALIFIER DEFINITIONS

B: Results based upon colony counts outside the acceptable range.
J3: The reported value failed to meet the established quality control criteria.
J4: The sample matrix interfered with the ability to make an accurate determination.
J5: The data is questionable because of improper lab or field protocols.
K: Off scale low, actual value is less than the value given.
L: Off scale high, actual value is known to be greater than the value given.
Q: Sample held beyond acceptable holding time.
U: The compound was analyzed for, but not detected.
V: The analyte was detected in both the sample and the associated method blank.
Y: The sample was unpreserved or improperly preserved.
Z: Too many colonies present (TNTC).
* Meets and/or exceeds acceptable drinking water limits, per FAC 62-550.
** This is an uncertified result.
HACH results are uncertified.

A statement of estimated uncertainty of results is available upon request.
Laboratory report shall not be reproduced except in full, without the written approval of Sanders Laboratories
Sanders Laboratories follows DEP standard operating procedures for field sampling.

Reports are archived for a minimum of 5 years. Copies of reports which are less than 1 year old are available for a fee of \$25.00 per report. Reports older than 1 year are available for a fee of \$50.00 per report. Copies will be provided within 1 week of the time of the request.

Client Project: Ave Maria
 Lab Project: N0409355
 Report Date: 10/19/04



Laboratory Results

CH2M Hill
 4350 W. Cypress St
 Tampa, FL 33607

Lab ID	Sample Description	Sample Source	Received Date/Time	Sample Date/Time
N0409355-01	P-1 grab	Ground Water	9/21/04 16:00	9/21/04 13:30

Analysis	Method	Results	Qual	Detection Limit	Units	AnalysisDate/Time	Analyst	Cert ID
Alkalinity	310.1	288		6	mg/L	9/23/04 11:00	JL	E84380
Aluminum	200.7	0.016		0.005	mg/L	9/29/04 9:40	BY	E84380
Ammonia-N	350.3	1.06		0.05	mg/L	9/24/04 9:00	JL	E84380
Antimony	200.7	0.003	U	0.003	mg/L	9/29/04 9:40	BY	E84380
Arsenic	200.7	0.001		0.001	mg/L	9/29/04 9:40	BY	E84380
Barium	200.7	0.012		0.003	mg/L	9/29/04 9:40	BY	E84380
Beryllium	200.7	0.0001	U	0.0001	mg/L	9/29/04 9:40	BY	E84380
Cadmium	200.7	0.001	U	0.001	mg/L	9/29/04 9:40	BY	E84380
Calcium	200.7	88.6		0.009	mg/L	9/29/04 9:40	BY	E84380
Chloride	4500Cl-B	45		10	mg/L	9/22/04 9:00	JL	E84380
Chromium	200.7	0.001	U	0.001	mg/L	9/29/04 9:40	BY	E84380
Color-Apparent	2120B	75		5	PtCo units	9/21/04 16:30	JL	E84380
Copper	200.7	0.001	V, J3	0.001	mg/L	9/29/04 9:40	BY	E84380
Dissolved Oxygen-field	360.1	4.68	***	0.01	mg/L	9/21/04 13:30	NO	E84380
Hydrogen Sulfide-field	HACH	absent		n/a	none	9/21/04 13:30	NO	E84380
Iron	200.7	0.259		0.006	mg/L	9/29/04 9:40	BY	E84380
Iron-Dissolved	200.7	0.234		0.006	mg/L	10/19/04 12:18	JPW	E84380
Lead	200.7	0.001		0.001	mg/L	9/29/04 9:40	BY	E84380

Client Project: Ave Maria

Lab Project: N0409355

Report Date: 10/19/04

Laboratory Results

<u>Lab ID</u>	<u>Sample Description</u>	<u>Sample Source</u>				<u>Received Date/Time</u>	<u>Sample Date/Time</u>	
N0409355-01	P-1 grab	Ground Water				9/21/04 16:00	9/21/04 13:30	
<u>Analysis</u>	<u>Method</u>	<u>Results</u>	<u>Qual</u>	<u>Detection Limit</u>	<u>Units</u>	<u>AnalysisDate/Time</u>	<u>Analyst</u>	<u>Cert ID</u>
Magnesium	200.7	17.8	J3	0.006	mg/L	9/29/04 9:40	BY	E84380
Manganese	200.7	0.009		0.001	mg/L	9/29/04 9:40	BY	E84380
Manganese-Dissolved	200.7	0.009		0.001	mg/L	10/19/04 12:18	JPW	E84380
Mercury	245.1	0.001	U	0.001	mg/L	9/28/04 12:22	BY	E84380
Nickel	200.7	0.002		0.002	mg/L	9/29/04 9:40	BY	E84380
Nitrate-N	353.2	0.01	U	0.01	mg/L	9/22/04 10:12	SJ	E84380
Nitrite-N	353.2	0.01	U	0.01	mg/L	9/22/04 19:48	SJ	E84380
Odor	SM2150B	1	U	1	TON	9/21/04 16:30	EW	E84380
Ortho-phosphate	365.2	0.070		0.010	mg/L	9/22/04 10:10	JL	E84380
pH - field	150.1	6.58		0.01	std units	9/21/04 13:30	NO	E84380
Phosphorus, Total	365.2	0.090		0.010	mg/L	10/13/04 13:00	JL	E84380
Potassium	200.7	7.69	J3	0.016	mg/L	9/29/04 9:40	BY	E84380
See attached results	Subcontract					9/22/04 8:50	SUB	
Selenium	200.7	0.001	U	0.001	mg/L	9/29/04 9:40	BY	E84380
Silica	370.1	21.8		5.0	mg/L	9/23/04 9:30	JL	E84380
Silver	200.7	0.001	U,J3	0.001	mg/L	9/29/04 9:40	BY	E84380
Sodium	200.7	28.3		0.200	mg/L	9/29/04 9:40	BY	E84380
Specific Conductance-field	120.1	704		0.1	umhos/cm	9/21/04 13:30	NO	E84380
Sulfate	375.4	18		5	mg/L	10/1/04 13:00	EW	E84380
Thallium	200.7	0.002	U	0.002	mg/L	9/29/04 9:40	BY	E84380
Total Coliform, MF	9222B	1	U,Q	1	col/100ml	9/22/04 8:00	RG	E84380

Client Project: Ave Maria

Lab Project: N0409355

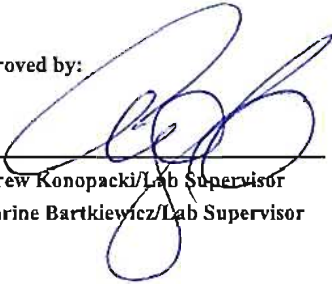
Report Date: 10/19/04

Laboratory Results

<u>Lab ID</u>	<u>Sample Description</u>	<u>Sample Source</u>	<u>Received Date/Time</u>	<u>Sample Date/Time</u>
N0409355-01	P-1 grab	Ground Water	9/21/04 16:00	9/21/04 13:30

<u>Analysis</u>	<u>Method</u>	<u>Results</u>	<u>Qual</u>	<u>Detection Limit</u>	<u>Units</u>	<u>AnalysisDate/Time</u>	<u>Analyst</u>	<u>Cert ID</u>
Total Dissolved Solids	160.1	432		10	mg/L	9/22/04 12:00	EW	E84380
Water Temperature-field	170.1	25.0		0.1	C	9/21/04 13:30	NO	E84380
Weather-field	DEPSOP	cloudy, rain		n/a	none	9/21/04 13:30	NO	E84380
Zinc	200.7	0.005		0.002	mg/L	9/29/04 9:40	BY	E84380

Approved by:



Andrew Konopacki/Lab Supervisor
Kathrine Bartkiewicz/Lab Supervisor

Comments: ***Strong discharge, aeration of sample may have occurred.

Test Results meet all the requirements of the NELAC standards.

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 fax 813-855-2218

Sanders Laboratories
1050 Endeavor Court
Nokomis, FL 34275

October 7, 2004
Project No: 45420

Laboratory Report

Project Name N0409366
Sample Description N0409366-011
Matrix Groundwater
SAL Sample Number 45420.01
Date/Time Collected 09/21/04 13:30
Date/Time Received 09/22/04 12:27

Parameters	Units	Results	Method	Detection Limit	Date/Time Analyzed	Date/Time Prep	Analyst
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Volatile Organic Compounds (Primary DW)

1,1,1-Trichloroethane	ug/l	0.3 U	EPA 502.2	0.3	09/23/04 20:47		JRW
1,1,2-Trichloroethane	ug/l	0.3 U	EPA 502.2	0.3	09/23/04 20:47		JRW
1,1-Dichloroethylene	ug/l	0.5 U	EPA 502.2	0.5	09/23/04 20:47		JRW
1,2,4 Trichlorobenzene	ug/l	0.5 U	EPA 502.2	0.5	09/23/04 20:47		JRW
1,2-Dichloroethane	ug/l	0.2 U	EPA 502.2	0.2	09/23/04 20:47		JRW
1,2-Dichloropropane	ug/l	0.3 U	EPA 502.2	0.3	09/23/04 20:47		JRW
Benzene	ug/l	0.5 U	EPA 502.2	0.5	09/23/04 20:47		JRW
Carbon tetrachloride	ug/l	0.3 U	EPA 502.2	0.3	09/23/04 20:47		JRW
cis-1,2-Dichloroethylene	ug/l	0.2 U	EPA 502.2	0.2	09/23/04 20:47		JRW
Dichloromethane	ug/l	0.5 U	EPA 502.2	0.5	09/23/04 20:47		JRW
Ethylbenzene	ug/l	0.5 U	EPA 502.2	0.5	09/23/04 20:47		JRW
Monochlorobenzene	ug/l	0.5 U	EPA 502.2	0.5	09/23/04 20:47		JRW
o-Dichlorobenzene	ug/l	0.5 U	EPA 502.2	0.5	09/23/04 20:47		JRW
para-Dichlorobenzene	ug/l	0.5 U	EPA 502.2	0.5	09/23/04 20:47		JRW
Styrene	ug/l	0.5 U	EPA 502.2	0.5	09/23/04 20:47		JRW
Tetrachloroethylene	ug/l	0.2 U	EPA 502.2	0.2	09/23/04 20:47		JRW
Toluene	ug/l	0.5 U	EPA 502.2	0.5	09/23/04 20:47		JRW
trans-1,2-Dichloroethylene	ug/l	0.5 U	EPA 502.2	0.5	09/23/04 20:47		JRW
Trichloroethylene	ug/l	0.2 U	EPA 502.2	0.2	09/23/04 20:47		JRW
Vinyl chloride	ug/l	0.5 U	EPA 502.2	0.5	09/23/04 20:47		JRW
Xylenes (Total)	ug/l	0.5 U	EPA 502.2	0.5	09/23/04 20:47		JRW
m/p-xylenes	ug/l	0.5 U	EPA 502.2	0.5	09/23/04 20:47		JRW
o-xylene	ug/l	0.5 U	EPA 502.2	0.5	09/23/04 20:47		JRW

Trihalomethane Analyses

Bromodichloromethane	ug/l	0.3 U	EPA 502.2	0.3	09/23/04 20:47		JRW
Bromoform	ug/l	0.5 U	EPA 502.2	0.5	09/23/04 20:47		JRW
Chloroform	ug/l	0.2 U	EPA 502.2	0.2	09/23/04 20:47		JRW
Dibromochloromethane	ug/l	0.5 U	EPA 502.2	0.5	09/23/04 20:47		JRW
Total Trihalomethanes	ug/l	0.2 U	EPA 502.2	0.2	09/23/04 20:47		JRW

Chlorinated Pesticides (Primary DW)

Date Extracted		09/24/04	EPA 508.1			09/24/04 08:30	ARM
Chlordane	ug/l	0.05 U	EPA 508.1	0.05	09/27/04 18:36	09/24/04 08:30	DB
Toxaphene	ug/l	0.5 U	EPA 508.1	0.5	09/27/04 18:36	09/24/04 08:30	DB
Polychlorinated biphenyls (PCBs)	ug/l	0.2 U	EPA 508.1	0.2	09/27/04 18:36	09/24/04 08:30	DB

Chlorinated Herbicides (Primary DW)

Date Extracted		09/23/04	EPA 515.3			09/23/04 09:00	POM
Dalapon	ug/l	1 U	EPA 515.3	1	09/25/04 01:46	09/23/04 09:00	BTJ

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 fax 813-855-2218

Sanders Laboratories
1050 Endeavor Court
Nokomis, FL 34275

October 7, 2004
Project No: 45420

Laboratory Report

Project Name N0409366
Sample Description N0409366-011
Matrix Groundwater
SAL Sample Number 45420.01
Date/Time Collected 09/21/04 13:30
Date/Time Received 09/22/04 12:27

Parameters	Units	Results	Method	Detection Limit	Date/Time Analyzed	Date/Time Prep	Analyst
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Chlorinated Herbicides (Primary DW)

2,4-D	ug/l	1 U	EPA 515.3	1	09/25/04 01:46	09/23/04 09:00	BTJ
Pentachlorophenol	ug/l	0.1 U	EPA 515.3	0.1	09/25/04 01:46	09/23/04 09:00	BTJ
2,4,5-TP (Silvex)	ug/l	0.25 U	EPA 515.3	0.25	09/25/04 01:46	09/23/04 09:00	BTJ
Dinoseb	ug/l	0.5 U	EPA 515.3	0.5	09/25/04 01:46	09/23/04 09:00	BTJ
Picloram	ug/l	0.75 U	EPA 515.3	0.75	09/25/04 01:46	09/23/04 09:00	BTJ

Semivolatile Analyses (Primary DW)

Date Extracted		09/24/04	EPA 525.2			09/24/04 08:30	ARM
Alachlor	ug/l	0.2 U	EPA 525.2	0.2	09/28/04 01:57	09/24/04 08:30	BTJ
Atrazine	ug/l	0.06 U	EPA 525.2	0.06	09/28/04 01:57	09/24/04 08:30	BTJ
Benzo(a)pyrene	ug/l	0.1 U	EPA 525.2	0.1	09/28/04 01:57	09/24/04 08:30	BTJ
Di(2-ethylhexyl)adipate	ug/l	0.3 U	EPA 525.2	0.3	09/28/04 01:57	09/24/04 08:30	BTJ
Di(2-ethylhexyl)phthalate	ug/l	1.0 U	EPA 525.2	1.0	09/28/04 01:57	09/24/04 08:30	BTJ
Endrin	ug/l	0.1 U	EPA 525.2	0.1	09/28/04 01:57	09/24/04 08:30	BTJ
Heptachlor	ug/l	0.08 U	EPA 525.2	0.08	09/28/04 01:57	09/24/04 08:30	BTJ
Heptachlor Epoxide	ug/l	0.1 U	EPA 525.2	0.1	09/28/04 01:57	09/24/04 08:30	BTJ
Hexachlorobenzene	ug/l	0.05 U	EPA 525.2	0.05	09/28/04 01:57	09/24/04 08:30	BTJ
Hexachlorocyclopentadiene	ug/l	0.2 U	EPA 525.2	0.2	09/28/04 01:57	09/24/04 08:30	BTJ
Lindane	ug/l	0.06 U	EPA 525.2	0.06	09/28/04 01:57	09/24/04 08:30	BTJ
Methoxychlor	ug/l	0.05 U	EPA 525.2	0.05	09/28/04 01:57	09/24/04 08:30	BTJ
Simazine	ug/l	0.07 U	EPA 525.2	0.07	09/28/04 01:57	09/24/04 08:30	BTJ

Pesticide Analyses (Primary DW)

Date Extracted		09/27/04	EPA 549.2			09/27/04 10:00	BML
Diquat	ug/l	1 U	EPA 549.2	1	09/27/04 17:45	09/27/04 10:00	BML

Total Haloacetic Acids Analyses

Date Extracted		09/27/04	EPA 552.2			09/27/04 08:45	ARM
Monochloroacetic Acid	ug/l	1 U	EPA 552.2	1	09/28/04 04:27	09/27/04 08:45	BTJ
Monobromoacetic Acid	ug/l	1 U	EPA 552.2	1	09/28/04 04:27	09/27/04 08:45	BTJ
Dichloroacetic Acid	ug/l	1 U	EPA 552.2	1	09/28/04 04:27	09/27/04 08:45	BTJ
Trichloroacetic Acid	ug/l	1 U	EPA 552.2	1	09/28/04 04:27	09/27/04 08:45	BTJ
Dibromoacetic Acid	ug/l	1 U	EPA 552.2	1	09/28/04 04:27	09/27/04 08:45	BTJ
Total Haloacetic Acids	ug/l	1 U	EPA 552.2	1	09/28/04 04:27	09/27/04 08:45	BTJ

Pesticide Analyses (Primary DW)

Date Extracted		09/28/04	EPA 504.1			09/28/04 13:30	BML
Dibromochloropropane	ug/l	0.005 U	EPA 504.1	0.005	09/29/04 22:56	09/28/04 13:30	DB
Ethylene Dibromide (EDB)	ug/l	0.005 U	EPA 504.1	0.005	09/29/04 22:56	09/28/04 13:30	DB

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 fax 813-855-2218

Sanders Laboratories
1050 Endeavor Court
Nokomis, FL 34275

October 7, 2004
Project No: 45420

Laboratory Report

Project Name N0409355
Sample Description N0409355-011
Matrix Groundwater
SAL Sample Number 45420.01
Date/Time Collected 09/21/04 13:30
Date/Time Received 09/22/04 12:27

Parameters	Units	Results	Method	Detection Limit	Date/Time Analyzed	Date/Time Prep	Analyst
Carbamate Pesticides (Primary DW)							
Carbofuran	ug/l	0.5 U	EPA 531.1	0.5	09/23/04 07:02		DF
Oxamyl (Vydate)	ug/l	0.5 U	EPA 531.1	0.5	09/23/04 07:02		DF
Pesticide Analyses (Primary DW)							
Glyphosate	ug/l	10 U	EPA 547	10	09/24/04 16:49		BML
Pesticide Analyses (Primary DW)							
Date Extracted		09/24/04	EPA 548.1			09/24/04 14:30	DB
Endothal	ug/l	20 U	EPA 548.1	20	09/29/04 22:24	09/24/04 14:30	DB
Inorganics							
Cyanide	mg/l	0.005 U	SM 4500 CN	0.005	10/05/04 14:00	10/05/04 08:40	MAM
Fluoride	mg/l	0.20	EPA 300.0	0.003	09/28/04 22:11		DF
Hydrogen Sulfide (Unionized)	mg/l	0.1 U	EPA 376.1	0.1	09/23/04 12:52		WMC
Foaming Agents	mg/l	0.053	SM 5540 C	0.05	09/23/04 09:00		WMC
Total Organic Carbon	mg/l	15	EPA 415.1	1	09/29/04 18:29		MAM
Metals							
Boron	mg/l	0.065	EPA 200.7	0.05	09/27/04 09:20	09/24/04 12:10	LLS
Strontium	mg/l	0.23	EPA 6010	0.01	09/27/04 09:20	09/24/04 12:10	LLS
Radiochemistry							
Gross Alpha (Incl. Uranium)	pCi/l	2.3±0.7	EPA 900.0	1.6	09/30/04 06:52	09/28/04 08:00	AWW
Radium-226	pCi/l	2.6±0.1	EPA 903.1	0.08	10/02/04 16:00	09/25/04 11:20	AWW
Radium-228	pCi/l	1.2±0.2	EPA RA-05	0.9	10/06/04 16:30	10/06/04 13:00	AWW

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 fax 813-855-2218

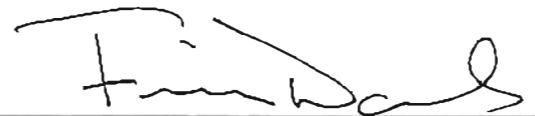
Sanders Laboratories
1050 Endeavor Court
Nokomis, FL 34275

October 7, 2004
Project No: 45420

Laboratory Report

Footnotes

- * Test results presented in this report meet all the requirements of the NELAC standards.
- ** A statement of estimated uncertainty of test results is available upon request.
- U Analyte was not detected; indicated concentration is method detection limit.





CHAIN-OF-CUSTODY RECORD

PROJECT # NO409355

Page 1 of 2

Sample Supply: GW (2-550 DW Stds)

Customer Type _____

Field Report # _____

Kit # _____

REQUESTED DUE DATE: 9/28/04

Client CH2M Hill
 Address _____
 Phone _____ Fax _____

Report To: _____
 Bill To: _____
 P.O. # _____
 Project Name East Innis
 Project Location: _____

Samply By (PRINT)		Sample			PRESERVATIVES					ANALYSES REQUEST										Sample ID #	
Sampler Signature		DATE	TIME	TYPE	4°C	UNPRESERVED	H ₂ SO ₄	HNO ₃	HCL	Thio	TDS, Cl ⁻ , SO ₄ , PH, Odor	Odor	Nor ₂ NO ₃	As Metals	TC	Fe, Manganese (Disolved)	NH ₃ , TP	ALK. DP, Si/Liq (Field)	PH (Cond. Temp)	To HES, Weather	Sample ID #
Noah Okrych		9-2-04	1330	G	X	X					X									X	-01A
Noah Okrych					X						X										-01B
					X							X									-01C
							X						X								-01D
									X					X							-01E
							X								X						-01F
					X											X					-01G
					X											X					-01H

Bottle Lot #	SHIPMENT METHOD	VIA	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	OUT / DATE	RETURNED / DATE	Noah Okrych	9-2-04	1600	T. Bright	9/21/04	1600
COMMENTS:		COOLER #						
		COOLER SEAL INTACT						
		Yes No						



CHAIN-OF-CUSTODY RECORD

PROJECT # N0409355

Page 2 of 2

Client CH2M Hill
 Address _____
 Phone _____ Fax _____

Report To: _____
 Bill To: _____
 P.O. # _____
 Project Name East Innis
 Project Location: _____

Sample Supply: GW (62-550 DW STS)
 Customer Type: _____
 Field Report #: _____
 Kit #: _____
 REQUESTED DUE DATE: 9/28/04

Sampled By (PRINT)		Sample			PRESERVATIVES					ANALYSES REQUEST								Sample ID #									
Sampler Signature		DATE	TIME	TYPE	4°C	UNPRESERVED	H ₂ SO ₄	HNO ₃	HCL	Cr-MBAs, F-	UVC, TTHM	Pest/PCB	Sc. Boron	HAs	TOC, HAAs	GA. Pds 226/228											
<u>Noah Olaych</u>		<u>9-21-04</u>	<u>1330</u>	<u>G</u>						X	X	X	X	X	X												<u>-01I</u>
Bottle Lot #		SHIPMENT METHOD	VIA		RELINQUISHED BY / AFFILIATION			DATE	TIME	ACCEPTED BY / AFFILIATION			DATE	TIME													
		OUT / DATE			<u>Noah Olaych</u>			<u>9-21-04</u>	<u>1330</u>	<u>T. Bright</u>			<u>9/21/04</u>	<u>1600</u>													
COMMENTS:		COOLER #		COOLER SEAL INTACT																							
				Yes No																							

Lab Project Summary

Lab Project #: N0408336
Client: CH2M Hill
4350 W. Cypress St

Total Pages: 13

Phone: Tampa FL 33607
813-874-6522
Fax: 813-874-3056
E-mail:
Client Project Name: Ave Maria
Laboratory Contact: Andy Konopacki

QUALIFIER DEFINITIONS

B: Results based upon colony counts outside the acceptable range.
J3: The reported value failed to meet the established quality control criteria.
J4: The sample matrix interfered with the ability to make an accurate determination.
J5: The data is questionable because of improper lab or field protocols.
K: Off scale low, actual value is less than the value given.
L: Off scale high, actual value is known to be greater than the value given.
Q: Sample held beyond acceptable holding time.
U: The compound was analyzed for, but not detected.
V: The analyte was detected in both the sample and the associated method blank.
Y: The sample was unpreserved or improperly preserved.
Z: Too many colonies present (TNTC).
* Meets and/or exceeds acceptable drinking water limits, per FAC 62-550.
** This is an uncertified result.
HACH results are uncertified.

A statement of estimated uncertainty of results is available upon request.
Laboratory report shall not be reproduced except in full, without the written approval of Sanders Laboratories.
Sanders Laboratories follows DEP standard operating procedures for field sampling.

Reports are archived for a minimum of 5 years. Copies of reports which are less than 1 year old are available for a fee of \$25.00 per report. Reports older than 1 year are available for a fee of \$50.00 per report. Copies will be provided within 1 week of the time of the request.



Laboratory Results

CH2M Hill
4350 W. Cypress St
Tampa, FL 33607

Lab ID	Sample Description	Sample Source	Received Date/Time	Sample Date/Time
N0408336-01	P-2 grab	Ground Water	8/30/04 13:45	8/30/04 10:30

Analysis	Method	Results	Qual	Detection Limit	Units	AnalysisDate/Time	Analyst	Cert ID
Air Temperature-field	170.1	31.3		0.1	C	8/30/04 10:30	SO	E84380
Alkalinity	310.1	300		15	mg/L	9/1/04 9:00	JL	E84380
Aluminum	200.7	0.008		0.005	mg/L	9/8/04 15:26	JPW	E84380
Ammonia-N	350.3	0.91		0.05	mg/L	9/1/04 10:30	JL	E84380
Antimony	200.7	0.003	U	0.003	mg/L	9/8/04 15:26	JPW	E84380
Arsenic	200.7	0.001		0.001	mg/L	9/8/04 15:26	JPW	E84380
Barium	200.7	0.008		0.003	mg/L	9/8/04 15:26	JPW	E84380
Beryllium	200.7	0.0001	U	0.0001	mg/L	9/8/04 15:26	JPW	E84380
Cadmium	200.7	0.001	U	0.001	mg/L	9/8/04 15:26	JPW	E84380
Calcium	200.7	89.9	J3	0.180	mg/L	9/8/04 15:26	JPW	E84380
Chloride	4500Cl-B	28		2	mg/L	8/31/04 12:00	JL	E84380
Chromium	200.7	0.001	U	0.001	mg/L	9/8/04 15:26	JPW	E84380
Color-Apparent	2120B	32		1	PtCo units	8/31/04 11:00	JL	E84380
Copper	200.7	0.001	U,V	0.001	mg/L	9/8/04 15:26	JPW	E84380
Dissolved Oxygen-field	360.1	4.25		0.01	mg/L	8/30/04 10:30	SO	E84380
Hydrogen Sulfide-field	HACH	absent		n/a	none	8/30/04 10:30	SO	E84380
Iron	200.7	0.006	U	0.006	mg/L	9/8/04 15:26	JPW	E84380
Iron-Dissolved	200.7	0.006	U	0.006	mg/L	9/7/04 11:47	JPW	E84380

Client Project: Ave Maria

Lab Project: N0408336

Report Date: 09/16/04

Laboratory Results

<u>Lab ID</u>	<u>Sample Description</u>	<u>Sample Source</u>			<u>Received Date/Time</u>	<u>Sample Date/Time</u>		
N0408336-01	P-2 grab	Ground Water			8/30/04 13:45	8/30/04 10:30		
<u>Analysis</u>	<u>Method</u>	<u>Results</u>	<u>Qual</u>	<u>Detection Limit</u>	<u>Units</u>	<u>AnalysisDate/Time</u>	<u>Analyst</u>	<u>Cert ID</u>
Lead	200.7	0.001	U	0.001	mg/L	9/8/04 15:26	JPW	E84380
Magnesium	200.7	12.8		0.006	mg/L	9/8/04 15:26	JPW	E84380
Manganese	200.7	0.003		0.001	mg/L	9/8/04 15:26	JPW	E84380
Manganese-Dissolved	200.7	0.003		0.001	mg/L	9/7/04 11:47	JPW	E84380
Mercury	245.1	0.001	U	0.001	mg/L	9/16/04 12:43	BY	E84380
Nickel	200.7	0.002	U	0.002	mg/L	9/8/04 15:26	JPW	E84380
Nitrate-N	353.2	0.01	U	0.01	mg/L	8/31/04 14:53	SJ	E84380
Nitrite-N	353.2	0.01	U	0.01	mg/L	8/30/04 15:43	SJ	E84380
Odor	SM2150B	3		1	TON	8/30/04 14:00	EW	E84380
Ortho-phosphate	365.2	0.048		0.010	mg/L	8/31/04 11:00	JL	E84380
pH - field	150.1	7.28		0.01	std units	8/30/04 10:30	SO	E84380
Phosphorus, Total	365.2	0.072		0.010	mg/L	8/31/04 14:30	JL	E84380
Potassium	200.7	4.83	J3	0.016	mg/L	9/8/04 15:26	JPW	E84380
See attached results	Subcontract					9/1/04 15:49	SUB	
Selenium	200.7	0.001	U,V	0.001	mg/L	9/8/04 15:26	JPW	E84380
Silica	370.1	15.6		2.0	mg/L	9/1/04 12:00	JL	E84380
Silver	200.7	0.001	U	0.001	mg/L	9/8/04 15:26	JPW	E84380
Sodium	200.7	28.3		0.200	mg/L	9/8/04 15:26	JPW	E84380
Specific Conductance-field	120.1	616		0.1	umhos/cm	8/30/04 10:30	SO	E84380
Sulfate	375.4	9		5	mg/L	9/3/04 12:00	EW	E84380
Thallium	200.7	0.002	U	0.002	mg/L	9/8/04 15:26	JPW	E84380

Client Project: Ave Maria
 Lab Project: N0408336
 Report Date: 09/16/04

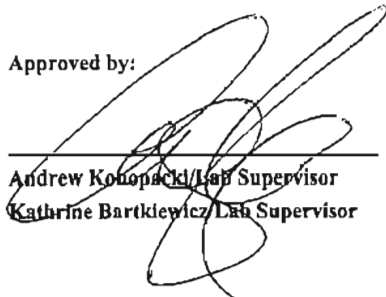
Laboratory Results

<u>Lab ID</u>	<u>Sample Description</u>	<u>Sample Source</u>	<u>Received Date/Time</u>	<u>Sample Date/Time</u>
N0408336-01	P-2 grab	Ground Water	8/30/04 13:45	8/30/04 10:30

<u>Analysis</u>	<u>Method</u>	<u>Results</u>	<u>Qual</u>	<u>Detection Limit</u>	<u>Units</u>	<u>AnalysisDate/Time</u>	<u>Analyst</u>	<u>Cert ID</u>
Total Chlorine Residual	330.5	0.1	U	0.1	mg/L	8/30/04 10:30	SO	E84380
Total Coliform, MF	9222B	1	U	1	col/100ml	8/30/04 16:30	RG	E84380
Total Dissolved Solids	160.1	352		10	mg/L	9/1/04 13:00	EW	E84380
Water Temperature-field	170.1	27.0		0.1	C	8/30/04 10:30	SO	E84380
Weather-field	DEPSOP	clear		n/a	none	8/30/04 10:30	SO	E84380
Zinc	200.7	0.002	U	0.002	mg/L	9/8/04 15:26	JPW	E84380

Approved by:

Comments:


 Andrew Kotopack/Lab Supervisor
 Kathrine Bartkiewicz/Lab Supervisor

Test Results meet all the requirements of the NELAC standards.



9/16/04

CH2M Hill
4350 W. Cypress St.
Tampa, FL 33607

To: Pete Larkin

Re: Qualifiers on Report N0408336.

Sanders Laboratories performed sampling and analysis on Well P2 at Ave Maria on August 30th, 2004. Sanders Laboratories associated project number is N0408336.

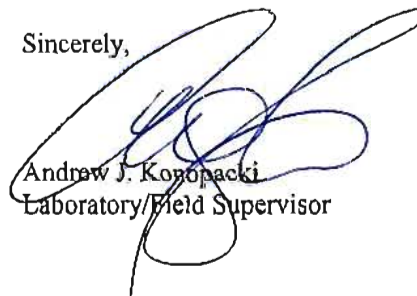
This report has a qualifier code "J3" on Calcium and Potassium. This qualifier for both Calcium and Potassium was used due to the matrix spike being outside the acceptable limits. This matrix spike is performed on one sample for every batch of ten samples. The matrix spike for this batch of samples was on a different sample.

Also, a "V" qualifier code is used for Copper and Selenium. The method digested blank had a measurement of 0.002 mg/L for Copper and 0.001 mg/L for Selenium. These numbers are at or above the method detection limit, therefore the "V" qualifier code.

All other quality control for these samples was within the acceptable limits.

If there are any questions please contact me at 941-488-8103.

Sincerely,



Andrew J. Konopacki
Laboratory/Field Supervisor

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 fax 813-855-2218

Sanders Laboratories
1050 Endeavor Court
Nokomis, FL 34275

September 13, 2004
Project No: 44896

Laboratory Report

Project Name N0408336
Sample Description N0408336-01
Matrix Groundwater
SAL Sample Number 44896.01
Date/Time Collected 08/30/04 10:30
Date/Time Received 08/31/04 10:00

Parameters	Units	Results	Method	Detection Limit	Date/Time Analyzed	Date/Time Prep	Analyst
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Volatile Organic Compounds (Primary DW)

1,1,1-Trichloroethane	ug/l	0.3 U	EPA 502.2	0.3	09/01/04 10:47		JRW
1,1,2-Trichloroethane	ug/l	0.3 U	EPA 502.2	0.3	09/01/04 10:47		JRW
1,1-Dichloroethylene	ug/l	0.5 U	EPA 502.2	0.5	09/01/04 10:47		JRW
1,2,4 Trichlorobenzene	ug/l	0.5 U	EPA 502.2	0.5	09/01/04 10:47		JRW
1,2-Dichloroethane	ug/l	0.2 U	EPA 502.2	0.2	09/01/04 10:47		JRW
1,2-Dichloropropane	ug/l	0.3 U	EPA 502.2	0.3	09/01/04 10:47		JRW
Benzene	ug/l	0.5 U	EPA 502.2	0.5	09/01/04 10:47		JRW
Carbon tetrachloride	ug/l	0.3 U	EPA 502.2	0.3	09/01/04 10:47		JRW
cis-1,2-Dichloroethylene	ug/l	0.2 U	EPA 502.2	0.2	09/01/04 10:47		JRW
Dichloromethane	ug/l	0.5 U	EPA 502.2	0.5	09/01/04 10:47		JRW
Ethylbenzene	ug/l	0.5 U	EPA 502.2	0.5	09/01/04 10:47		JRW
Monochlorobenzene	ug/l	0.5 U	EPA 502.2	0.5	09/01/04 10:47		JRW
o-Dichlorobenzene	ug/l	0.5 U	EPA 502.2	0.5	09/01/04 10:47		JRW
para-Dichlorobenzene	ug/l	0.5 U	EPA 502.2	0.5	09/01/04 10:47		JRW
Styrene	ug/l	0.5 U	EPA 502.2	0.5	09/01/04 10:47		JRW
Tetrachloroethylene	ug/l	0.2 U	EPA 502.2	0.2	09/01/04 10:47		JRW
Toluene	ug/l	0.5 U	EPA 502.2	0.5	09/01/04 10:47		JRW
trans-1,2-Dichloroethylene	ug/l	0.5 U	EPA 502.2	0.5	09/01/04 10:47		JRW
Trichloroethylene	ug/l	0.2 U	EPA 502.2	0.2	09/01/04 10:47		JRW
Vinyl chloride	ug/l	0.5 U	EPA 502.2	0.5	09/01/04 10:47		JRW
Xylenes (Total)	ug/l	0.5 U	EPA 502.2	0.5	09/01/04 10:47		JRW
m/p-xylenes	ug/l	0.5 U	EPA 502.2	0.5	09/01/04 10:47		JRW
o-xylene	ug/l	0.5 U	EPA 502.2	0.5	09/01/04 10:47		JRW

Trihalomethane Analyses

Bromodichloromethane	ug/l	0.3 U	EPA 502.2	0.3	09/01/04 10:47		JRW
Bromoform	ug/l	0.5 U	EPA 502.2	0.5	09/01/04 10:47		JRW
Chloroform	ug/l	0.2 U	EPA 502.2	0.2	09/01/04 10:47		JRW
Dibromochloromethane	ug/l	0.5 U	EPA 502.2	0.5	09/01/04 10:47		JRW
Total Trihalomethanes	ug/l	0.2 U	EPA 502.2	0.2	09/01/04 10:47		JRW

Chlorinated Pesticides (Primary DW)

Date Extracted		09/09/04	EPA 508.1			09/09/04 08:30	GLG
Chlordane	ug/l	0.05 U	EPA 508.1	0.05	09/10/04 18:21	09/09/04 08:30	DB
Toxaphene	ug/l	0.5 U	EPA 508.1	0.5	09/10/04 18:21	09/09/04 08:30	DB
Polychlorinated biphenyls (PCBs)	ug/l	0.2 U	EPA 508.1	0.2	09/10/04 18:21	09/09/04 08:30	DB

Chlorinated Herbicides (Primary DW)

Date Extracted		09/02/04	EPA 515.3			09/02/04 08:30	GLG
Dalapon	ug/l	1 U	EPA 515.3	1	09/03/04 14:24	09/02/04 08:30	BTJ

SOUTHERN ANALYTICAL LABORATORIES, INC.

1,10 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 fax 813-855-2218

Sanders Laboratories
1050 Endeavor Court
Nokomis, FL 34275

September 13, 2004
Project No: 44896

Laboratory Report

Project Name N0408336
Sample Description N0408336-01
Matrix Groundwater
SAL Sample Number 44896.01
Date/Time Collected 08/30/04 10:30
Date/Time Received 08/31/04 10:00

Parameters	Units	Results	Method	Detection Limit	Date/Time Analyzed	Date/Time Prep	Analyst
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Chlorinated Herbicides (Primary DW)

2,4-D	ug/l	1 U	EPA 515.3	1	09/03/04 14:24	09/02/04 08:30	BTJ
Pentachlorophenol	ug/l	0.1 U	EPA 515.3	0.1	09/03/04 14:24	09/02/04 08:30	BTJ
2,4,5-TP (Silvex)	ug/l	0.25 U	EPA 515.3	0.25	09/03/04 14:24	09/02/04 08:30	BTJ
Dinoseb	ug/l	0.5 U	EPA 515.3	0.5	09/03/04 14:24	09/02/04 08:30	BTJ
Picloram	ug/l	0.75 U	EPA 515.3	0.75	09/03/04 14:24	09/02/04 08:30	BTJ

Semivolatile Analyses (Primary DW)

Date Extracted		09/09/04	EPA 525.2			09/09/04 08:30	GLG
Alachlor	ug/l	0.2 U	EPA 525.2	0.2	09/11/04 19:40	09/09/04 08:30	BTJ
Atrazine	ug/l	0.06 U	EPA 525.2	0.06	09/11/04 19:40	09/09/04 08:30	BTJ
Benzo(a)pyrene	ug/l	0.1 U	EPA 525.2	0.1	09/11/04 19:40	09/09/04 08:30	BTJ
Di(2-ethylhexyl)adipate	ug/l	0.3 U	EPA 525.2	0.3	09/11/04 19:40	09/09/04 08:30	BTJ
Di(2-ethylhexyl)phthalate	ug/l	1.0 U	EPA 525.2	1.0	09/11/04 19:40	09/09/04 08:30	BTJ
Endrin	ug/l	0.1 U	EPA 525.2	0.1	09/11/04 19:40	09/09/04 08:30	BTJ
Heptachlor	ug/l	0.08 U	EPA 525.2	0.08	09/11/04 19:40	09/09/04 08:30	BTJ
Heptachlor Epoxide	ug/l	0.1 U	EPA 525.2	0.1	09/11/04 19:40	09/09/04 08:30	BTJ
Hexachlorobenzene	ug/l	0.05 U	EPA 525.2	0.05	09/11/04 19:40	09/09/04 08:30	BTJ
Hexachlorocyclopentadiene	ug/l	0.2 U	EPA 525.2	0.2	09/11/04 19:40	09/09/04 08:30	BTJ
Lindane	ug/l	0.06 U	EPA 525.2	0.06	09/11/04 19:40	09/09/04 08:30	BTJ
Methoxychlor	ug/l	0.05 U	EPA 525.2	0.05	09/11/04 19:40	09/09/04 08:30	BTJ
Simazine	ug/l	0.07 U	EPA 525.2	0.07	09/11/04 19:40	09/09/04 08:30	BTJ

Pesticide Analyses (Primary DW)

Date Extracted		09/03/04	EPA 549.2			09/03/04 09:00	ARM
Diquat	ug/l	1 U	EPA 549.2	1	09/08/04 19:20	09/03/04 09:00	JKS

Total Haloacetic Acids Analyses

Date Extracted		09/01/04	EPA 552.2			09/01/04 09:00	BML
Monochloroacetic Acid	ug/l	1 U	EPA 552.2	1	09/04/04 05:18	09/01/04 09:00	BTJ
Monobromoacetic Acid	ug/l	1 U	EPA 552.2	1	09/04/04 05:18	09/01/04 09:00	BTJ
Dichloroacetic Acid	ug/l	1 U	EPA 552.2	1	09/04/04 05:18	09/01/04 09:00	BTJ
Trichloroacetic Acid	ug/l	1 U	EPA 552.2	1	09/04/04 05:18	09/01/04 09:00	BTJ
Dibromoacetic Acid	ug/l	1 U	EPA 552.2	1	09/04/04 05:18	09/01/04 09:00	BTJ
Total Haloacetic Acids	ug/l	1 U	EPA 552.2	1	09/04/04 05:18	09/01/04 09:00	BTJ

Pesticide Analyses (Primary DW)

Date Extracted		09/01/04	EPA 504.1			09/01/04 15:45	BML
Dibromochloropropane	ug/l	0.005 U	EPA 504.1	0.005	09/03/04 15:54	09/01/04 15:45	DB
Ethylene Dibromide (EDB)	ug/l	0.005 U	EPA 504.1	0.005	09/03/04 15:54	09/01/04 15:45	DB

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 B13-855-1844 fax B13-855-2218

Sanders Laboratories
1050 Endeavor Court
Nokomis, FL 34275

September 13, 2004
Project No: 44896

Laboratory Report

Project Name **N0408336**
Sample Description **N0408336-01**
Matrix **Groundwater**
SAL Sample Number **44896.01**
Date/Time Collected **08/30/04 10:30**
Date/Time Received **08/31/04 10:00**

Parameters	Units	Results	Method	Detection Limit	Date/Time Analyzed	Date/Time Prep	Analyst
<u>Carbamate Pesticides (Primary DW)</u>							
Carbofuran	ug/l	0.5 U	EPA 531.1	0.5	09/07/04 16:03		JKS
Oxamyl (Vydate)	ug/l	0.5 U	EPA 531.1	0.5	09/07/04 16:03		JKS
<u>Pesticide Analyses (Primary DW)</u>							
Glyphosate	ug/l	10 U	EPA 547	10	09/01/04 14:36		JKS
<u>Pesticide Analyses (Primary DW)</u>							
Date Extracted		09/01/04	EPA 548.1			09/01/04 11:30	ARM
Endothall	ug/l	20 U	EPA 548.1	20	09/03/04 22:10	09/01/04 11:30	DB
<u>Inorganics</u>							
Cyanide	mg/l	0.005 U	SM 4500 CN	0.005	09/09/04 15:00	09/09/04 10:35	JEH
Fluoride	mg/l	0.21	EPA 300.0	0.003	09/01/04 07:28		DF
Hydrogen Sulfide (Unionized)	mg/l	0.2	EPA 376.1	0.1	09/07/04 11:11		WMC
Foaming Agents	mg/l	0.05 U	SM 5540 C	0.05	09/01/04 10:15		WMC
Total Organic Carbon	mg/l	11	EPA 415.1	1	09/02/04 00:05		MAM
<u>Metals</u>							
Boron	mg/l	0.068	EPA 200.7	0.05	09/08/04 09:30	09/01/04 09:40	LLS
Strontium	mg/l	0.24	EPA 6010	0.01	09/02/04 13:20	09/01/04 09:40	LLS

SOUTHERN ANALYTICAL LABORATORIES, INC.

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Sanders Laboratories
1050 Endeavor Court
Nokomis, FL 34275

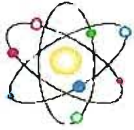
September 13, 2004
Project No: 44896

Laboratory Report

Footnotes

- Test results presented in this report meet all the requirements of the NELAC standards.
- ** A statement of estimated uncertainty of test results is available upon request.
- U Analyte was not detected; indicated concentration is method detection limit.





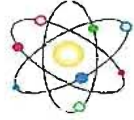
Florida Radiochemistry Services, Inc.

Sample Login

Client:	Sanders Laboratories, Inc.	Date / Time Received	Work order #
		08/31/04 11:00	0408228
Client Contact:	Tami Bright		
Client P.O.	N0408336		
Project I.D.	N0408336		
Lab Sample I.D.	Client Sample I.D.	Sample Date/Time	Analysis Requested
0408228-01	N0408336-01	08/30/04 10:30	Ga, Ra226, Ra228

Analysis Results

Gross Alpha	<1.7		
Error +/-	1.0		
MDL	1.7		
EPA Method	900.0		
Prep Date	09/07/04		
Analysis Date	09/08/04		
Analyst	MJN		
Radium 226	0.7	Radium 228	<0.9
Error +/-	0.3	Error +/-	0.6
MDL	0.2	MDL	0.9
EPA Method	903.1	EPA Method	Ra-05
Prep Date	09/07/04	Prep Date	09/07/04
Analysis Date	09/14/04	Analysis Date	09/09/04
Analyst	MJN	Analyst	PJ
Units	pCi/l	Units	pCi/l



Florida Radiochemistry Services, Inc.

QA Page

Analyte	Sample #	Date Analyzed	Sample Result	Amount Spiked	Spike Result	Spike /Dup Result	Spike % Rec.	Spike Dup % Rpd
Gross Alpha	0408230-02	09/08/04	<1.5	10.2	8.9	9.6	87	7.6
Radium 226	0408193-02	09/14/04	0.2	23.5	21.9	21.9	92	0.0
Radium 228	0408193-02	09/09/04	<1.0	6.3	6.1	6.2	97	1.6

	Quality Control	Limits
	% RPD	% Rec.
Gross Alpha	15.9	69-115
Radium 226	21.1	73-117
Radium 228	18.1	75-125



CHAIN-OF-CUSTODY RECORD

PROJECT # N040 8336
316-306

Page 1 of 2

Sample Supply: GW (62-550 DW STS)

Customer Type: _____

Field Report #: _____

Kit #: _____

REQUESTED DUE DATE: 9/6/04

Report To: Rete Larkin

Bill To: _____

P.O. #: _____

Project Name: _____

Project Location: _____

Client: CH₂MHU

Address: _____

Phone: _____ Fax: _____

Sampled By (PRINT)		Sample			PRESERVATIVES					ANALYSES REQUEST								Sample ID #		
Sampler Signature		DATE	TIME	TYPE	4°C	UNPRESERVED	H ₂ SO ₄	HNO ₃	HCL	Cl-354/Color, PH, TDS	Odor	Np ₂ , Np ₃	P+S Metals, Cd, Pb, K	TC	Fe, Magnesium (Disolved)	NH ₃ -TP	Silica, DE, ALE			
Shalina Odegnud		8/30/04	1030	G						X										-01
Shalina Odegnud											X									
												X								
													X							
														X						
															X					
																X				

Bottle Lot #	SHIPMENT METHOD	VIA	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	OUT / DATE RETURNED / DATE		Shalina Odegnud	8/30/04	1345	Alreager	8/30/04	1345
COMMENTS:		COOLER #						
Cl : 0.0								
H ₂ S : absent		COOLER SEAL INTACT						
		Yes No						



CHAIN-OF-CUSTODY RECORD

PROJECT # NO40 8336
316 30150

Page 2 of 2

Client City of Miami
Address _____
Phone _____ Fax _____

Report To: Pete Lanier
Bill To: _____
P.O. # _____
Project Name _____
Project Location: _____

Sample Supply: GW (62-550 DW Stds)
Customer Type: _____
Field Report #: _____
Kit #: _____
REQUESTED DUE DATE: 9/6/04

Sampled By (PRINT)		Sample			PRESERVATIVES					ANALYSES REQUEST								Sample ID #									
Sampler Signature		DATE	TIME	TYPE	4°C	UNPRESERVED	H ₂ SO ₄	HNO ₃	HCL	Cr-MBAs, F-	VOC, TTHM	Pest/PCB	Sr, Barium	HAS	TOC, HAAS	GA. Rule 226/227											
<u>Shalina Odeged</u>		<u>8/30/04</u>	<u>1030</u>	<u>G</u>						X	X	X	X	X	X												<u>-01</u>

Bottle Lot #	OUT / DATE	SHIPMENT METHOD	RETURNED DATE	VIA	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
					<u>Shalina Odeged</u>	<u>8/30/04</u>	<u>1345</u>	<u>Alreaga</u>	<u>8/30/04</u>	<u>1345</u>
COMMENTS:				COOLER #						
<u>Cl: 0.0</u>										
<u>H₂S: absent</u>				COOLER SEAL INTACT						
				Yes No						

Lab Project #: N0409360
Client: CH2M Hill
4350 W. Cypress St

Total Pages: 10

Phone: Tampa FL 33607
813-874-6522
Fax: 813-874-3056
E-mail:
Client Project Name: Ave Maria
Laboratory Contact: Andy Konopacki

QUALIFIER DEFINITIONS

- B: Results based upon colony counts outside the acceptable range.
- J3: The reported value failed to meet the established quality control criteria.
- J4: The sample matrix interfered with the ability to make an accurate determination.
- J5: The data is questionable because of improper lab or field protocols.
- K: Off scale low, actual value is less than the value given.
- L: Off scale high, actual value is known to be greater than the value given.
- Q: Sample held beyond acceptable holding time.
- U: The compound was analyzed for, but not detected.
- V: The analyte was detected in both the sample and the associated method blank.
- Y: The sample was unpreserved or improperly preserved.
- Z: Too many colonies present (TNTC).
- * Meets and/or exceeds acceptable drinking water limits, per FAC 62-550.
- ** This is an uncertified result.
- HACH results are uncertified.

A statement of estimated uncertainty of results is available upon request.
Laboratory report shall not be reproduced except in full, without the written approval of Sanders Laboratories.
Sanders Laboratories follows DEP standard operating procedures for field sampling.

Reports are archived for a minimum of 5 years. Copies of reports which are less than 1 year old are available for a fee of \$25.00 per report. Reports older than 1 year are available for a fee of \$50.00 per report. Copies will be provided within 1 week of the time of the request.

Client Project: Ave Maria
 Lab Project: N0409360
 Report Date: 10/19/04



Laboratory Results

CH2M Hill
 4350 W. Cypress St
 Tampa, FL 33607

Lab ID	Sample Description	Sample Source	Received Date/Time	Sample Date/Time
N0409360-01	p-3 grab	Ground Water	9/22/04 15:15	9/22/04 13:00

Analysis	Method	Results	Qual	Detection Limit	Units	AnalysisDate/Time	Analyst	Cert ID
Alkalinity	310.1	272		6	mg/L	9/23/04 11:00	JL	E84380
Aluminum	200.7	0.022		0.005	mg/L	9/29/04 9:40	BY	E84380
Ammonia-N	350.3	1.31		0.05	mg/L	9/24/04 9:00	JL	E84380
Antimony	200.7	0.003	U	0.003	mg/L	9/29/04 9:40	BY	E84380
Arsenic	200.7	0.001	U	0.001	mg/L	9/29/04 9:40	BY	E84380
Barium	200.7	0.016		0.003	mg/L	9/29/04 9:40	BY	E84380
Beryllium	200.7	0.0001	U	0.0001	mg/L	9/29/04 9:40	BY	E84380
Cadmium	200.7	0.001	U	0.001	mg/L	9/29/04 9:40	BY	E84380
Calcium	200.7	84.3	J3	0.009	mg/L	9/29/04 9:40	BY	E84380
Chloride	4500Cl-B	35		10	mg/L	9/27/04 12:00	JL	E84380
Chromium	200.7	0.001	U	0.001	mg/L	9/29/04 9:40	BY	E84380
Color-Apparent	2120B	90		5	PCo units	9/22/04 15:30	JL	E84380
Copper	200.7	0.001	U,V	0.001	mg/L	9/29/04 9:40	BY	E84380
Dissolved Oxygen-field	360.1	4.63		0.01	mg/L	9/22/04 13:00	NO	E84380
Hydrogen Sulfide-field	HACH	absent		n/a	none	9/22/04 13:00	NO	E84380
Iron	200.7	0.726		0.006	mg/L	9/29/04 9:40	BY	E84380
Iron-Dissolved	200.7	0.660		0.006	mg/L	10/19/04 12:18	JPW	E84380
Lead	200.7	0.001	U	0.001	mg/L	9/29/04 9:40	BY	E84380

Client Project: Ave Maria

Lab Project: N0409360

Report Date: 10/19/04

Laboratory Results

<u>Lab ID</u>	<u>Sample Description</u>	<u>Sample Source</u>	<u>Received Date/Time</u>	<u>Sample Date/Time</u>
N0409360-01	p-3 grab	Ground Water	9/22/04 15:15	9/22/04 13:00

<u>Analysis</u>	<u>Method</u>	<u>Results</u>	<u>Qual</u>	<u>Detection Limit</u>	<u>Units</u>	<u>AnalysisDate/Time</u>	<u>Analyst</u>	<u>Cert ID</u>
Magnesium	200.7	10.5	J3	0.006	mg/L	9/29/04 9:40	BY	E84380
Manganese	200.7	0.008		0.001	mg/L	9/29/04 9:40	BY	E84380
Manganese-Dissolved	200.7	0.008		0.001	mg/L	10/19/04 12:18	JPW	E84380
Mercury	245.1	0.001	U	0.001	mg/L	9/28/04 12:22	BY	E84380
Nickel	200.7	0.002	U	0.002	mg/L	9/29/04 9:40	BY	E84380
Nitrate-N	353.2	0.01	U	0.01	mg/L	9/22/04 15:45	SJ	E84380
Nitrite-N	353.2	0.01	U	0.01	mg/L	9/22/04 15:22	SJ	E84380
Odor	SM2150B	1	U	1	TON	9/22/04 15:30	JL	E84380
Ortho-phosphate	365.2	0.052		0.010	mg/L	9/23/04 7:45	JL	E84380
pH - field	150.1	6.07		0.01	std units	9/22/04 13:00	NO	E84380
Phosphorus, Total	365.2	0.067		0.010	mg/L	9/24/04 12:00	JL	E84380
Potassium	200.7	7.85	J3	0.016	mg/L	9/29/04 9:40	BY	E84380
See attached results	Subcontract					9/23/04 10:29	SUB	
Selenium	200.7	0.001	U	0.001	mg/L	9/29/04 9:40	BY	E84380
Silica	370.1	26.5		5.0	mg/L	9/23/04 9:30	JL	E84380
Silver	200.7	0.001	U,J3	0.001	mg/L	9/29/04 9:40	BY	E84380
Sodium	200.7	24.0		0.200	mg/L	9/29/04 9:40	BY	E84380
Specific Conductance-field	120.1	662		0.1	umhos/cm	9/22/04 13:00	NO	E84380
Sulfate	375.4	9		5	mg/L	10/1/04 13:00	EW	E84380
Thallium	200.7	0.002	U	0.002	mg/L	9/29/04 9:40	BY	E84380
Total Coliform, MF	9222B	TNTC-NO N	Z	1	col/100ml	9/22/04 16:00	RG	E84380

Client Project: Ave Maria
 Lab Project: N0409360
 Report Date: 10/19/04

Laboratory Results

<u>Lab ID</u>	<u>Sample Description</u>	<u>Sample Source</u>	<u>Received Date/Time</u>	<u>Sample Date/Time</u>
N0409360-01	p-3 grab	Ground Water	9/22/04 15:15	9/22/04 13:00

<u>Analysis</u>	<u>Method</u>	<u>Results</u>	<u>Qual</u>	<u>Detection Limit</u>	<u>Units</u>	<u>AnalysisDate/Time</u>	<u>Analyst</u>	<u>Cert ID</u>
Total Dissolved Solids	160.1	392		10	mg/L	9/24/04 12:30	EW	E84380
Water Temperature-field	170.1	25.6		0.1	C	9/22/04 13:00	NO	E84380
Weather-field	DEPSOP	cloudy		n/a	none	9/22/04 13:00	NO	E84380
Zinc	200.7	0.012		0.002	mg/L	9/29/04 9:40	BY	E84380

Approved by:

Comments:


 Andrew Konopacki/Lab Supervisor
 Kathrine Bartkiewicz/Lab Supervisor

Test Results meet all the requirements of the NELAC standards.

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 fax 813-855-2218

Sanders Laboratories
1050 Endeavor Court
Nokomis, FL 34275

October 7, 2004
Project No: 45438

Laboratory Report

Project Name N0409360
Sample Description N0409360-011
Matrix Groundwater
SAL Sample Number 45438.01
Date/Time Collected 09/22/04 13:00
Date/Time Received 09/23/04 14:30

Parameters	Units	Results	Method	Detection Limit	Date/Time Analyzed	Date/Time Prep	Analyst
<u>Volatile Organic Compounds (Primary DW)</u>							
1,1,1-Trichloroethane	ug/l	0.3 U	EPA 502.2	0.3	09/24/04 05:05		JRW
1,1,2-Trichloroethane	ug/l	0.3 U	EPA 502.2	0.3	09/24/04 05:05		JRW
1,1-Dichloroethylene	ug/l	0.5 U	EPA 502.2	0.5	09/24/04 05:05		JRW
1,2,4 Trichlorobenzene	ug/l	0.5 U	EPA 502.2	0.5	09/24/04 05:05		JRW
1,2-Dichloroethane	ug/l	0.2 U	EPA 502.2	0.2	09/24/04 05:05		JRW
1,2-Dichloropropane	ug/l	0.3 U	EPA 502.2	0.3	09/24/04 05:05		JRW
Benzene	ug/l	0.5 U	EPA 502.2	0.5	09/24/04 05:05		JRW
Carbon tetrachloride	ug/l	0.3 U	EPA 502.2	0.3	09/24/04 05:05		JRW
cis-1,2-Dichloroethylene	ug/l	0.2 U	EPA 502.2	0.2	09/24/04 05:05		JRW
Dichloromethane	ug/l	0.5 U	EPA 502.2	0.5	09/24/04 05:05		JRW
Ethylbenzene	ug/l	0.5 U	EPA 502.2	0.5	09/24/04 05:05		JRW
Monochlorobenzene	ug/l	0.5 U	EPA 502.2	0.5	09/24/04 05:05		JRW
o-Dichlorobenzene	ug/l	0.5 U	EPA 502.2	0.5	09/24/04 05:05		JRW
para-Dichlorobenzene	ug/l	0.5 U	EPA 502.2	0.5	09/24/04 05:05		JRW
Styrene	ug/l	0.5 U	EPA 502.2	0.5	09/24/04 05:05		JRW
Tetrachloroethylene	ug/l	0.2 U	EPA 502.2	0.2	09/24/04 05:05		JRW
Toluene	ug/l	0.5 U	EPA 502.2	0.5	09/24/04 05:05		JRW
trans-1,2-Dichloroethylene	ug/l	0.5 U	EPA 502.2	0.5	09/24/04 05:05		JRW
Trichloroethylene	ug/l	0.2 U	EPA 502.2	0.2	09/24/04 05:05		JRW
Vinyl chloride	ug/l	0.5 U	EPA 502.2	0.5	09/24/04 05:05		JRW
Xylenes (Total)	ug/l	0.5 U	EPA 502.2	0.5	09/24/04 05:05		JRW
m/p-xylenes	ug/l	0.5 U	EPA 502.2	0.5	09/24/04 05:05		JRW
o-xylene	ug/l	0.5 U	EPA 502.2	0.5	09/24/04 05:05		JRW
<u>Trihalomethane Analyses</u>							
Bromodichloromethane	ug/l	0.3 U	EPA 502.2	0.3	09/24/04 05:05		JRW
Bromoform	ug/l	0.5 U	EPA 502.2	0.5	09/24/04 05:05		JRW
Chloroform	ug/l	0.2 U	EPA 502.2	0.2	09/24/04 05:05		JRW
Dibromochloromethane	ug/l	0.5 U	EPA 502.2	0.5	09/24/04 05:05		JRW
Total Trihalomethanes	ug/l	0.2 U	EPA 502.2	0.2	09/24/04 05:05		JRW
<u>Chlorinated Pesticides (Primary DW)</u>							
Date Extracted		09/24/04	EPA 508.1			09/24/04 08:30	ARM
Chlordane	ug/l	0.05 U	EPA 508.1	0.05	09/27/04 19:57	09/24/04 08:30	DB
Toxaphene	ug/l	0.5 U	EPA 508.1	0.5	09/27/04 19:57	09/24/04 08:30	DB
Polychlorinated biphenyls (PCBs)	ug/l	0.2 U	EPA 508.1	0.2	09/27/04 19:57	09/24/04 08:30	DB
<u>Chlorinated Herbicides (Primary DW)</u>							
Date Extracted		09/28/04	EPA 515.3			09/28/04 10:00	POM
Dalapon	ug/l	1 U	EPA 515.3	1	10/02/04 07:00	09/28/04 10:00	BTJ

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 fax 813-855-2218

Sanders Laboratories
1050 Endeavor Court
Nokomis, FL 34275

October 7, 2004
Project No: 45438

Laboratory Report

Project Name N0409360
Sample Description N0409360-011
Matrix Groundwater
SAL Sample Number 45438.01
Date/Time Collected 09/22/04 13:00
Date/Time Received 09/23/04 14:30

Parameters	Units	Results	Method	Detection Limit	Date/Time Analyzed	Date/Time Prep	Analyst
<u>Chlorinated Herbicides (Primary DW)</u>							
2,4-D	ug/l	1 U	EPA 515.3	1	10/02/04 07:00	09/28/04 10:00	BTJ
Pentachlorophenol	ug/l	0.1 U	EPA 515.3	0.1	10/02/04 07:00	09/28/04 10:00	BTJ
2,4,5-TP (Silvex)	ug/l	0.25 U	EPA 515.3	0.25	10/02/04 07:00	09/28/04 10:00	BTJ
Dinoseb	ug/l	0.5 U	EPA 515.3	0.5	10/02/04 07:00	09/28/04 10:00	BTJ
Picloram	ug/l	0.75 U	EPA 515.3	0.75	10/02/04 07:00	09/28/04 10:00	BTJ
<u>Semivolatile Analyses (Primary DW)</u>							
Date Extracted		09/24/04	EPA 525.2			09/24/04 08:30	ARM
Alachlor	ug/l	0.2 U	EPA 525.2	0.2	09/28/04 03:54	09/24/04 08:30	BTJ
Atrazine	ug/l	0.06 U	EPA 525.2	0.06	09/28/04 03:54	09/24/04 08:30	BTJ
Benzo(a)pyrene	ug/l	0.1 U	EPA 525.2	0.1	09/28/04 03:54	09/24/04 08:30	BTJ
Di(2-ethylhexyl)adipate	ug/l	0.3 U	EPA 525.2	0.3	09/28/04 03:54	09/24/04 08:30	BTJ
Di(2-ethylhexyl)phthalate	ug/l	1.0 U	EPA 525.2	1.0	09/28/04 03:54	09/24/04 08:30	BTJ
Endrin	ug/l	0.1 U	EPA 525.2	0.1	09/28/04 03:54	09/24/04 08:30	BTJ
Heptachlor	ug/l	0.08 U	EPA 525.2	0.08	09/28/04 03:54	09/24/04 08:30	BTJ
Heptachlor Epoxide	ug/l	0.1 U	EPA 525.2	0.1	09/28/04 03:54	09/24/04 08:30	BTJ
Hexachlorobenzene	ug/l	0.05 U	EPA 525.2	0.05	09/28/04 03:54	09/24/04 08:30	BTJ
Hexachlorocyclopentadiene	ug/l	0.2 U	EPA 525.2	0.2	09/28/04 03:54	09/24/04 08:30	BTJ
Lindane	ug/l	0.06 U	EPA 525.2	0.06	09/28/04 03:54	09/24/04 08:30	BTJ
Methoxychlor	ug/l	0.05 U	EPA 525.2	0.05	09/28/04 03:54	09/24/04 08:30	BTJ
Simazine	ug/l	0.07 U	EPA 525.2	0.07	09/28/04 03:54	09/24/04 08:30	BTJ
<u>Pesticide Analyses (Primary DW)</u>							
Date Extracted		09/27/04	EPA 549.2			09/27/04 10:00	BML
Diquat	ug/l	1 U	EPA 549.2	1	09/27/04 18:29	09/27/04 10:00	BML
<u>Total Haloacetic Acids Analyses</u>							
Date Extracted		09/28/04	EPA 552.2			09/28/04 09:15	ARM
Monochloroacetic Acid	ug/l	1 U	EPA 552.2	1	09/30/04 20:24	09/28/04 09:15	BTJ
Monobromoacetic Acid	ug/l	1 U	EPA 552.2	1	09/30/04 20:24	09/28/04 09:15	BTJ
Dichloroacetic Acid	ug/l	1 U	EPA 552.2	1	09/30/04 20:24	09/28/04 09:15	BTJ
Trichloroacetic Acid	ug/l	1 U	EPA 552.2	1	09/30/04 20:24	09/28/04 09:15	BTJ
Dibromoacetic Acid	ug/l	1 U	EPA 552.2	1	09/30/04 20:24	09/28/04 09:15	BTJ
Total Haloacetic Acids	ug/l	1 U	EPA 552.2	1	09/30/04 20:24	09/28/04 09:15	BTJ
<u>Pesticide Analyses (Primary DW)</u>							
Date Extracted		09/28/04	EPA 504.1			09/28/04 13:30	BML
Dibromochloropropane	ug/l	0.005 U	EPA 504.1	0.005	09/29/04 02:10	09/28/04 13:30	DB
Ethylene Dibromide (EDB)	ug/l	0.005 U	EPA 504.1	0.005	09/29/04 02:10	09/28/04 13:30	DB

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 fax 813-855-2218

Sanders Laboratories
1050 Endeavor Court
Nokomis, FL 34275

October 7, 2004
Project No: 45438

Laboratory Report

Project Name **N0409360**
Sample Description **N0409360-011**
Matrix **Groundwater**
SAL Sample Number **45438.01**
Date/Time Collected **09/22/04 13:00**
Date/Time Received **09/23/04 14:30**

Parameters	Units	Results	Method	Detection Limit	Date/Time Analyzed	Date/Time Prep	Analyst
<u>Carbamate Pesticides (Primary DW)</u>							
Carbofuran	ug/l	0.5 U	EPA 531.1	0.5	09/29/04 01:24		DF
Oxamyl (Vydate)	ug/l	0.5 U	EPA 531.1	0.5	09/29/04 01:24		DF
<u>Pesticide Analyses (Primary DW)</u>							
Glyphosate	ug/l	10 U	EPA 547	10	09/24/04 17:27		BML
<u>Pesticide Analyses (Primary DW)</u>							
Date Extracted		09/24/04	EPA 548.1			09/24/04 14:30	DB
Endothall	ug/l	20 U	EPA 548.1	20	09/30/04 00:04	09/24/04 14:30	DB
<u>Inorganics</u>							
Cyanide	mg/l	0.005 U	SM 4500 CN	0.005	09/30/04 16:00	09/30/04 15:00	MAM
Fluoride	mg/l	0.20	EPA 300.0	0.003	09/29/04 01:17		DF
Hydrogen Sulfide (Unionized)	mg/l	0.20	EPA 376.1	0.1	10/04/04 08:10	09/29/04 15:00	AJH
Foaming Agents	mg/l	0.05 U	SM 5540 C	0.05	09/24/04 11:16		WMC
Total Organic Carbon	mg/l	16	EPA 415.1	1	09/29/04 18:42		MAM
<u>Metals</u>							
Boron	mg/l	0.064	EPA 200.7	0.05	09/27/04 09:20	09/24/04 12:10	LLS
Strontium	mg/l	0.21	EPA 8010	0.01	09/27/04 09:20	09/24/04 12:10	LLS
<u>Radiochemistry</u>							
Gross Alpha (Incl. Uranium)	pCi/l	3.7±0.8	EPA 900.0	1.3	09/30/04 06:52	09/28/04 08:00	AWW
Radium-226	pCi/l	0.5±0.07	EPA 903.1	0.1	10/03/04 14:20	09/25/04 10:50	AWW
Radium-228	pCi/l	2.8±0.2	EPA RA-05	0.9	10/06/04 16:30	10/06/04 13:00	AWW

SOUTHERN ANALYTICAL LABORATORIES, INC.

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Sanders Laboratories
1050 Endeavor Court
Nokomis, FL 34275

October 7, 2004
Project No: 45438

Laboratory Report

Footnotes

- * Test results presented in this report meet all the requirements of the NELAC standards.
- ** A statement of estimated uncertainty of test results is available upon request.
- U Analyte was not detected; indicated concentration is method detection limit.





CHAIN-OF-CUSTODY RECORD

PROJECT # NO409360

Page 1 of 2

Sample Supply: GW (62-SSD DW Stds)

Customer Type: _____

Field Report #: _____

Kit #: _____

REQUESTED DUE DATE: 9/29/04

Client CH2M Hill

Address _____

Phone _____ Fax _____

Report To: _____

Bill To: _____

P.O. # 800626

Project Name East Immokalee / Ave Maria

Project Location: _____

Sampled By (PRINT)		Sample			PRESERVATIVES					ANALYSES REQUEST								Sample ID #	
Sampler Signature		DATE	TIME	TYPE	4°C	UNPRESERVED	H ₂ O ₂	HNO ₃	HCL	TPS (U-S&W, PH, Color)	Odor	NO ₂ , NO ₃	PS Metals & Mg, K	TC	Fe, Mn, Ni, Pb, Se, Cd, Cr, Cu, Zn	NH ₃ , TP	AIR, DP, Silica		
Noah Olenych		7-20-04	1300	c						X									-01A
Noah Olenych											X								-01B
												X							-01C
													X						-01D
														X					-01E
															X				-01F
																X			-01G
																	X		-01H

Bottle Lot #	OUT / DATE	SHIPMENT METHOD	RETURNED DATE	VIA	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
					Noah Olenych	9-22-04	1515	Alreager	9/22/04	1515

COMMENTS:	COOLER #	COOLER SEAL INTACT
		Yes No



CHAIN-OF-CUSTODY RECORD

PROJECT # N0409360

Page 2 of 2

Sample Supply: GW (62-SSD DW Stds)

Customer Type: _____

Field Report #: _____

Kit #: _____

REQUESTED DUE DATE: 9/29/04

Client CH2M Hill
 Address _____
 Phone _____ Fax _____

Report To: _____
 Bill To: _____
 P.O. # _____
 Project Name East Tamolake Ave Mound
 Project Location: _____

Sampled By (PRINT)		Sample			PRESERVATIVES					ANALYSES REQUEST								Sample ID #					
Sampler Signature		DATE	TIME	TYPE	4°C	UNPRESERVED	H ₂ SO ₄	HNO ₃	HCL	Cd., MBAS, F.	VOC, THM	Pest/PCB	Sr., Barion	H ₂ S	TDC, HAAS	GA. Peds 216/223							
Bottle #	<u>P-3</u>	<u>9/22/04</u>	<u>1300</u>	<u>G</u>						<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>								<u>-01I</u>

Bottle Lot #	SHIPMENT METHOD	OUT / DATE	RETURNED / DATE	VIA	RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME
					<u>Wahlh</u>		<u>9-22/04</u>	<u>1515</u>	<u>Alreger</u>		<u>9/22/04</u>	<u>1515</u>
COMMENTS:				COOLER #								
				COOLER SEAL INTACT								
				Yes No								