Well Completion Report Exploratory Test Well ETW-1

Florida Governmental Utility Authority Mirror Lakes Water Treatment Plant Lehigh Acres, Lee County, Florida



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Appendix A Lee County Well Construction Permit and Well Completion Report

- Appendix B Geophysical Logs
- Appendix C Borehole Television Survey
- Appendix D Lithologic Log
- Appendix E Laboratory Analytical Data

1.0 Introduction



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1.1 Background

As part of the most recent Water Use Permit (WUP) renewal process, the South Florida Water Management District (SFWMD) required that the Florida Governmental Utility Authority (FGUA) evaluate the use of an Alternate Water Source (AWS) to meet future demand. Pre-application discussions with the SFWMD led to an agreement that FGUA would explore the feasibility of an AWS utilizing the brackish waters from the mid-Hawthorne Aquifer, the Lower Hawthorne Aquifer, or the upper Floridan Aquifer as a requirement of the next WUP.

1.2 Purpose

The purpose of this report is to document the hydrogeologic data collected during the drilling and testing of an exploratory test well into the mid-to-lower Hawthorne Aquifer and upper Floridan Aquifer at the project site in Lehigh Acres, Lee County, Florida (Figure 1). The data includes a summary of:

- 1. well drilling and construction details
- 2. lithostratigraphy and hydrogeology data
- 3. water quality results, and
- 4. aquifer performance testing.

The data collected from this well will be used to support the development of an Alternative Water Source (brackish water) to replace future use of the shallow Sandstone Aquifer. This well represents the first phase of the process with the goal being to identify a target aquifer/producing zone, which will serve to allow this source to be developed as the permitted source of water supply. Once the AWS has been approved by SFWMD, further work will include the construction of a test/production well, additional observation wells, to conduct an Aquifer Performance Test (APT), the development of a ground water flow model, the design of a well field, and the development of an impact analysis. All work will be submitted to SFWMD for approval before this brackish source can be permitted and development as an AWS.

1.3 Project Description

The project site is located in Section 23, Township 45 south, Range 27 east at the intersection of Bolivia Drive and Bedford Point Avenue in Lehigh Acres, Florida. Figure 2 is an aerial photograph showing the well location on the project site.

Site preparation and equipment mobilization began on April 2, 2007. Exploratory test well, ETW-1, was installed to a total depth of 1,110 feet below land surface (BLS). This well was used to evaluate the use of the mid-Hawthorne Aquifer, the Lower Hawthorne Aquifer and the upper Floridan Aquifer as a potential AWS. The well was constructed with telescoping casings with the final 6-inch PVC casing set to a depth of 770 feet BLS.

Connect Consulting, Inc. (CCI) provided oversight during well drilling, construction, and testing operations. Parsons Drilling, Inc., (PDI) a Chuluota, Florida-based drilling contractor, was responsible for all drilling, well construction, and testing services (excluding geophysical logging) associated with this well. The well construction and

1.0 Introduction

testing was completed on July 20, 2007 at which time all drilling equipment was demobilized from the site. A Lee County Well Completion Report (WCR) was completed by PDI and submitted to the Lee County Natural Resources Division. A copy of the Lee County WCR is provided in Appendix A.



Figure 1 – Site Location Map

1.0 Introduction

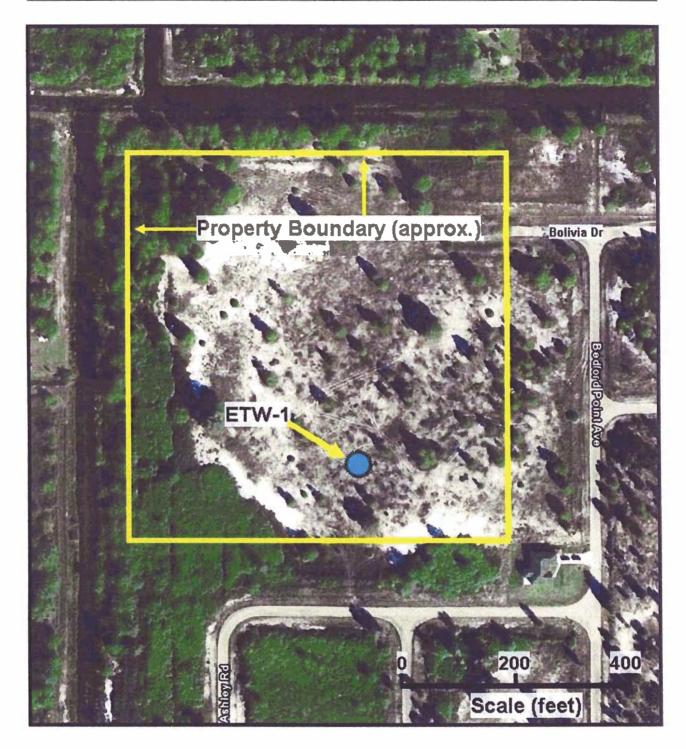


Figure 2 – Aerial Photograph of Site (pre-construction)



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Prior to mobilization of drilling equipment, PDI obtained a well construction permit from the Groundwater Permitting Unit of the Lee County Natural Resources Division on March 23, 2007. A copy of Permit No. WEL2007-01389 is included in Appendix A. After the well permit was issued, PDI began mobilizing equipment to the project site on April 2, 2007.

After mobilizing drilling equipment to the site in early April 2007, mud rotary and reverse air drilling techniques were used during drilling operations. PDI used closed circulation mud rotary drilling to advance a nominal 12-inch pilot hole from land surface to 630 feet BLS. PDI used reverse air, open circulation drilling to advance a nominal 12-inch pilot hole from 630 feet BLS to 1,110 feet BLS. **Figure 3** is a photograph of the Gardner Denver 2000 drill rig used at the project site.

CCI used formation samples (well cuttings), drill stem tests, field water quality sample analysis, and geophysical logging to determine casing setting depths. Once the casing set point was identified the contractor reamed the pilot hole, if necessary, to the diameter and depth for the selected casing setting. Four concentric casings (24-, 18-, 12-, and 6-inch diameter) were used in the construction of the telescoping style test well.

On April 9, 2007, PDI began drilling operations by advancing a nominal 30-inch diameter borehole to a depth of 41 feet. PDI then installed a 24-inch diameter, steel casing (0.375-inch thickness) to 41 feet and pressure grouted the annulus to surface using 72 cubic feet (ft³) of ASTM Type I neat cement.

After installing the 24-inch diameter surface casing, PDI advanced a nominal 23-inch borehole from 25 feet to 194 feet BLS. Based on formation samples collected, low permeability sediments beginning at a depth of 186 feet BLS, which mark the base of the surficial aquifer system. A casing setting depth of 188 feet BLS was selected for the 18-inch diameter steel casing. This depth was 2 feet into the confining sediments of the intermediate aquifer system. PDI conditioned the borehole by circulating the drilling mud to remove any residual debris from the borehole prior to setting the casing.

On April 13 and 14, 2007, PDI installed the 18-inch diameter, steel casing (0.375-inch thickness) to a depth of 188 feet. The casing was grouted in two stages beginning on April 14, 2007. The initial stage of grouting used the inside-casing tremie pressure grouting method. The grout return on the first stage was tagged at a depth of 65 feet BLS. The second grout stage was performed using the exterior tremie line method and was used to complete the grouting of the casing from 65 feet BLS to land surface. A total of 177 ft³ of ASTM Type I neat cement was used to grout the 18-inch casing to 188 feet BLS.

After installing the 18-inch casing to 188 feet BLS, PDI advanced a nominal 17-inch diameter borehole from 188 feet to a depth of 425 feet BLS. Based on the low permeability sediments encountered from 188 to 420 feet and the expected depth of the first zone of potential artesian conditions in the mid-Hawthorne Aquifer, a casing setting depth of 412 feet was selected. PDI conditioned the borehole prior to setting the casing

by circulating any remaining debris from the borehole. Figure 4 shows the geophysical logging of the 17-inch borehole.

On May 10, 2007, Aquifer Data Systems, Inc. (ADS) conducted geophysical logging of the borehole to document the borehole condition and also assist with determining the appropriate casing setting depth. The caliper log showed no unusual borehole features that would inhibit proper installation of the 12-inch casing. As a result, PDI installed the 12-inch steel casing (0.250-inch) on May 10, 2007 to a depth of 412 feet BLS and pressure grouted back to a depth of 280 feet on May 11, 2007. A second stage of grout was pumped on May 11, 2007, using the exterior tremie line method after the tremie line used for the interior pressure grouting became plugged. A third stage of grout was pumped using the exterior tremie line method on May 12, 2007, to complete the grouting of the 12-inch casing to 412 feet BLS. A total of 383 ft³ of ASTM Type I neat cement was used to grout the casing back to land surface. **Figure 5 through 12** document the various phases of well construction up to the setting of the 12-inch casing.

The use of the first three steel casings serves the following purposes:

- Provide stability of the subsurface surrounding the drilling rig during future drilling operations;
- Prevent unconsolidated sediments from collapsing into the borehole; and
- Isolate the fresh water aquifers from brackish ground water.

With the surface casings set in place, PDI installed a pressure control device onto the top of the 12-inch casing to handle potential artesian conditions while drilling through the intermediate and Floridan Aquifer systems. **Figure 12** shows the pressure control device installed on the top of the 12-inch steel casing.

On May 17, 2007, PDI began advancing a nominal 12-inch borehole from 412 feet to 1,110 feet via mud rotary method by drilling out the cement shoe in the base of the 12-inch casing. On May 23, 2007, PDI switched from drilling via mud rotary to the reverse air circulation method based on the lithology changing from unconsolidated siliclastics to limestone at approximately 600 feet BLS. On May 30, 2007, the nominal 12-inch borehole was completed to a depth of 1,110 feet BLS. The borehole was developed via airlifting for approximately 60 minutes after reaching the total depth.

On June 5, 2007, MV Geophysical Surveys, Inc. (MVGS) performed geophysical logging on the nominal 12-inch pilot hole. A series of geophysical logs were conducted on the water-filled borehole. A suite of logs included a caliper, gamma-ray, dual induction (LL3/SP), fluid resistivity, fluid temperature, and a flow meter log. The fluid resistivity, temperature, and flow meter log were run under static and dynamic conditions. **Figure 13** shows the geophysical logging of the 12-inch pilot hole. Appendix B contains the individual geophysical log plots from ETW-1. An evaluation of the geophysical logs is provided in Section 4.1. A borehole television survey was also conducted by MVGS on June 5, 2007. A copy of the borehole TV survey is contained in **Appendix C**. The visual observations from the borehole TV survey are limited due to the clarity of the water in the borehole at the time of the logging. A layer of

unconsolidated sediment at approximately 915-930 feet BLS was creating very turbid conditions during the TV survey and prevented the TV camera from reaching the total depth of the borehole. This feature can be seen on the caliper log, the gamma ray log, and the TV survey.

CCI reviewed the geophysical logs and the lithologic samples (well cuttings) from the subject borehole and identified the top of the Suwannee Limestone at a depth of approximately 780 feet BLS. CCI made a decision to set the final 6-inch PVC casing to a depth of 775 feet to:

- Set the casing in competent, well-indurated rock immediately above the solution feature observed at the top of the Suwannee Limestone.
- Seal off the lower Hawthorne Formation just above the top of the Suwannee Limestone.
- Evaluate the flow characteristics of the Suwannee Limestone with the open hole section from 775 feet to 1,110 feet BLS.
- Evaluate the water quality of the Suwannee Limestone without interference from the lower Hawthorne Formation.

On June 13, 2007, PDI conducted a "wiper pass" on the nominal 12-inch borehole to clean any debris from the borehole that would potentially inhibit the installation of the final casing. The borehole was reamed using reverse air circulation from 415 feet to 1,110 feet BLS.

After removing all of the drill string from the borehole, PDI proceeded to install the 6inch Schedule 40 PVC casing to a depth of 775 feet. PDI secured three cement baskets on the base of the casing at 775, 770, and 765 feet and then proceed to install the casing and cement grouted it in place via the exterior tremie method using a total of 597 ft³ of ASTM Type I neat cement containing 5% bentonite. **Figures 14 through 17** document the installation of the 6-inch PVC casing.

Prior to the first stage of grout, approximately 2 ft³ of #57 stone was placed in the cement baskets to reduce the potential for the cement grout to flow through the baskets. Following the additional of gravel, PDI pumped the initial cement grout seal on June 17, 2007, using approximately 42 ft³ of neat cement (no bentonite). Subsequent stages of grouting were done with neat cement and 5% (pre-mixed) bentonite. The final grouting stage was completed on July 15, 2007. **Figures 18 and 19** show the grouting operations for the 6-inch PVC casing.

PDI developed the well by over pumping and artesian flow techniques until the turbidity in the formation water was ~5.0 milligrams per liter (mg/L) or less. PDI then constructed a 6-foot by 6-foot reinforced concrete pad at the surface of the wellhead. Protective bollards were installed at the corners of the well pad, filled with concrete, and painted with high-yellow traffic paint. The aboveground portion of the well casing was equipped with a protective aluminum riser and hinged, lockable box to enclose the ball valve and pressure transducer installed on the top of the well casing. **Figures 20 and 21** show the completed wellhead.

Table 2-1 summarizes the actual well casing details and **Figure 22** is a diagram showing the well construction details for ETW-1.

Nominal Borehole Diameter (in)	Casing Dlameter (in)	Casing Material	Completion Date*	Casing / Open Hole Depth (ft)
30	24	Steel	4/ 11/2007	41
23	18	Steel	4/19/2007	188
17	12	Steel	5/12/2007	412
12	6	PVC	7/15/2007**	770
12	NA	Open Hole	5/30/2007***	1,110

Table 2-1- ETW-1 Well Construction Details

Notes: *- Denotes completion date for grouting of casing.

** - The 6-inch PVC casing was installed on June 13, 2007 using

6" x 12" cement baskets. Final grout stage was July 15, 2007.

*** - The 12" pilot hole was completed to total depth on May 30, 2007.

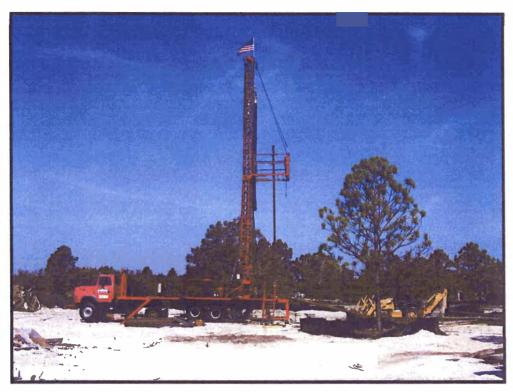


Figure 3 – Gardner Denver 2000 Drill Rig Set Up on ETW-1 (looking west)



Figure 4 – Geophysical Logging of 17-inch Borehole

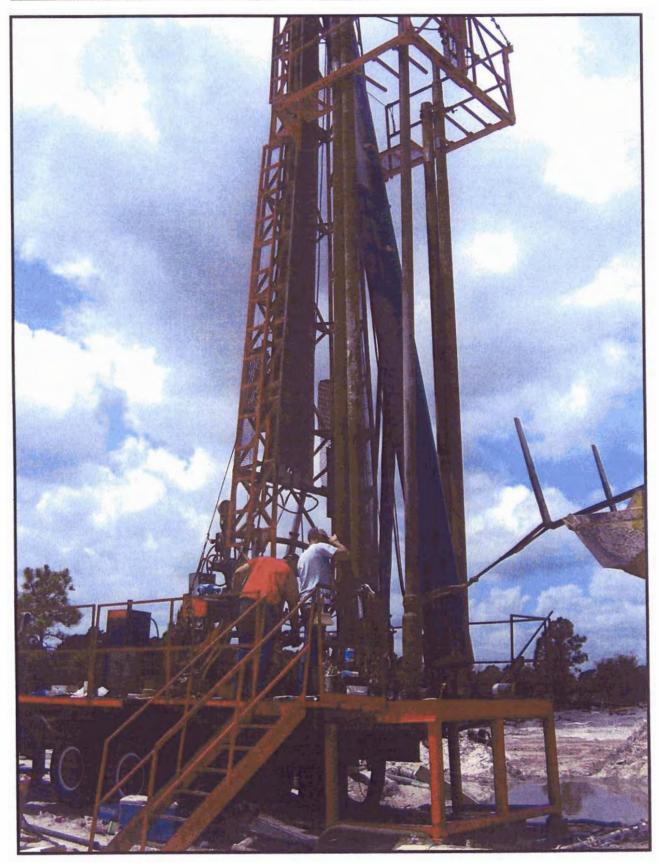


Figure 5 – Installing 18-inch Steel Casing



Figure 6 – Welding 18-inch Steel Casing

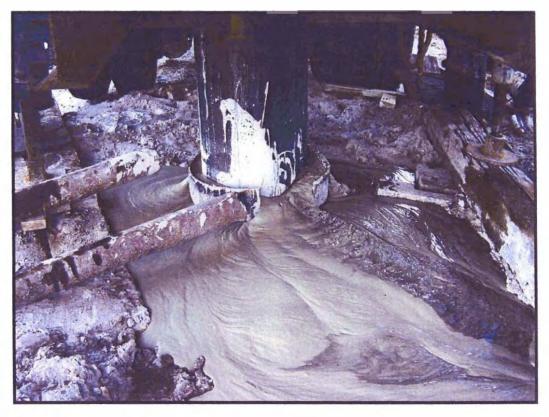


Figure 7 – Grouting of 18-inch Steel Casing

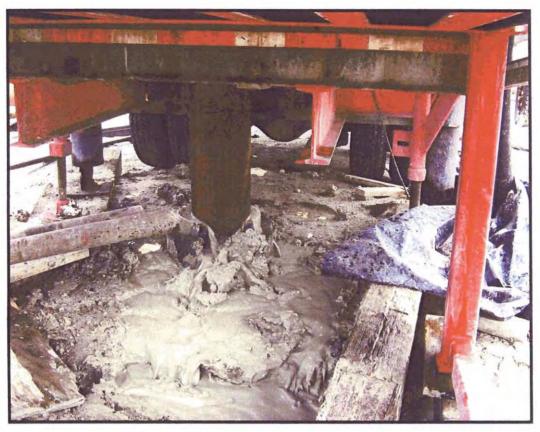


Figure 8 – Circulating Drilling Mud Prior to Grouting of 12-inch Casing



Figure 9 - Grouting of 12-inch Steel Casing

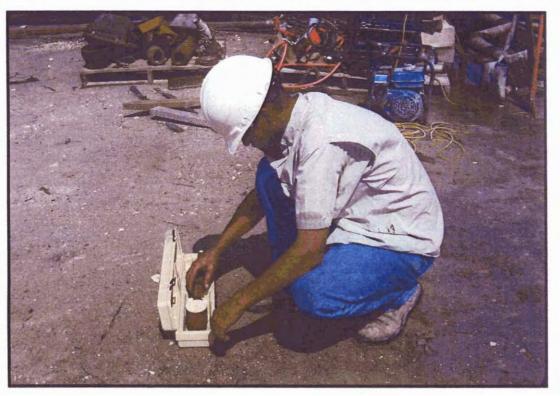


Figure 10 – Measuring Weight of Cement Grout Slurry







Figure 12 – Pressure Control Device on 12-inch Steel Casing

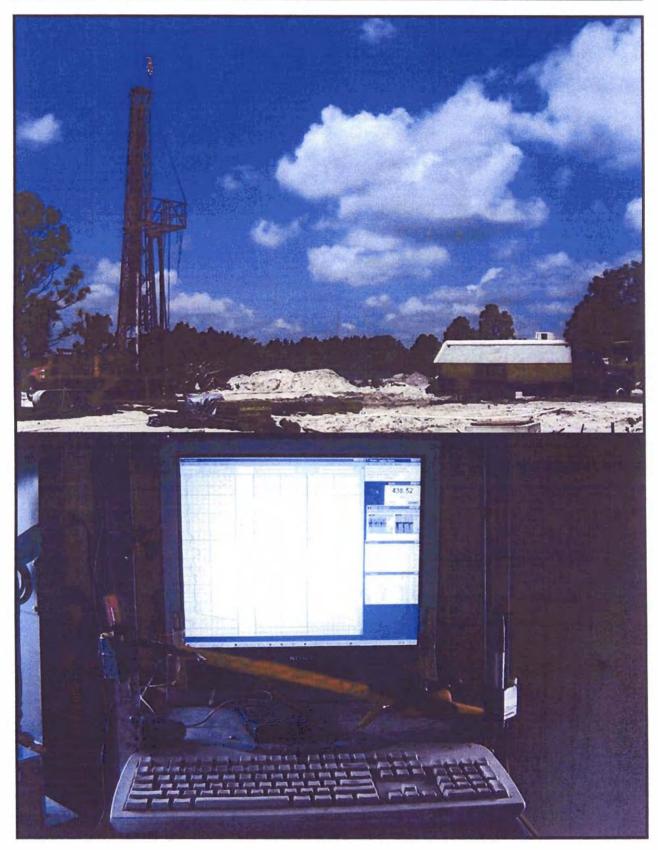






Figure 14 – Cement Baskets Attached to Base of 6-Inch PVC Casing

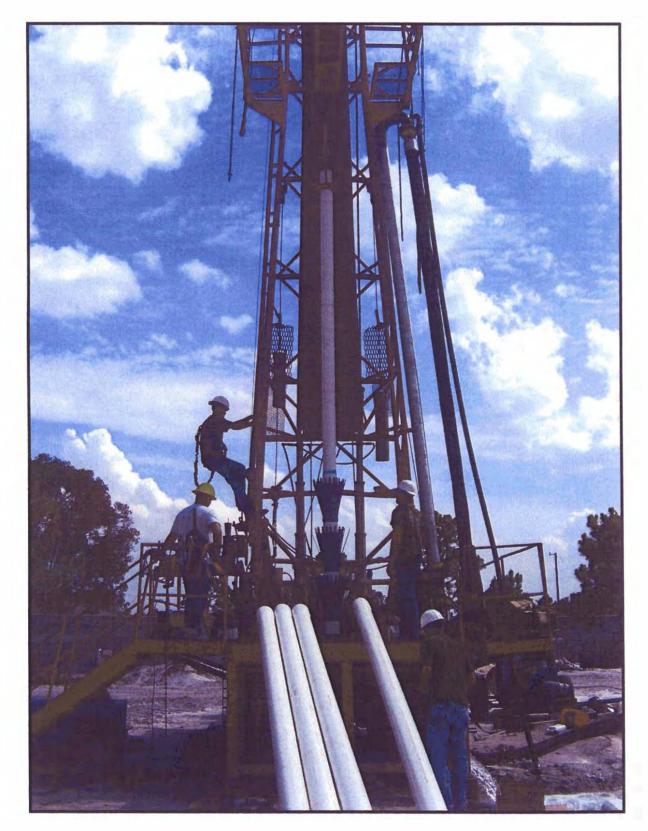


Figure 15 - Installing First Section of 6-inch PVC Casing (note baskets attached)



Figure 16 – Installing Centralizers on 6-Inch PVC Casing

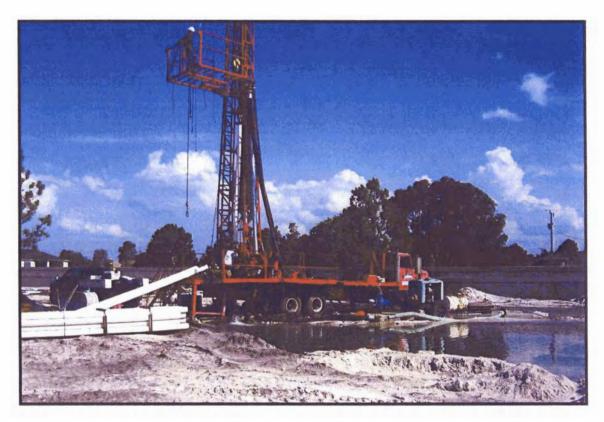


Figure 17 – Installation Set Up of 6-inch PVC Casing





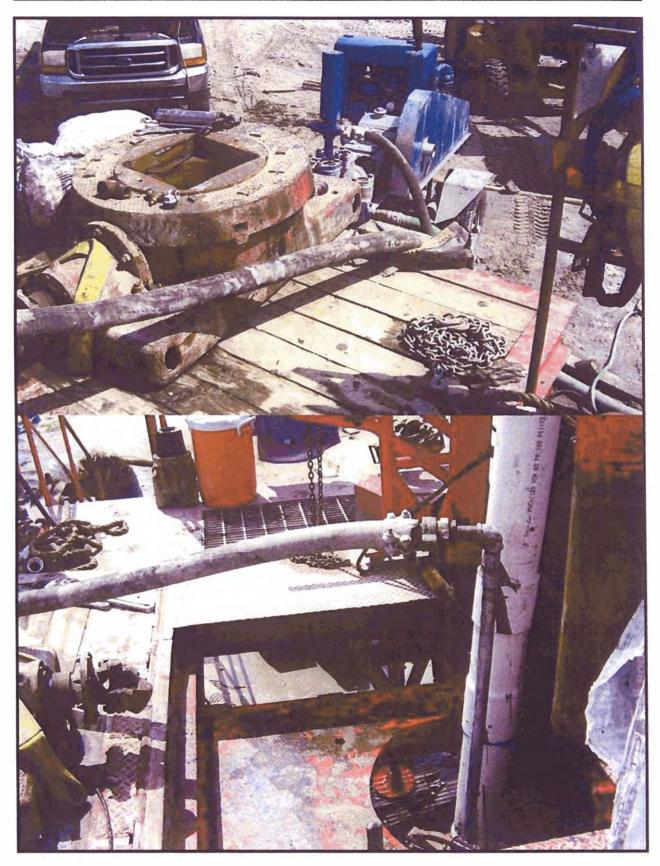
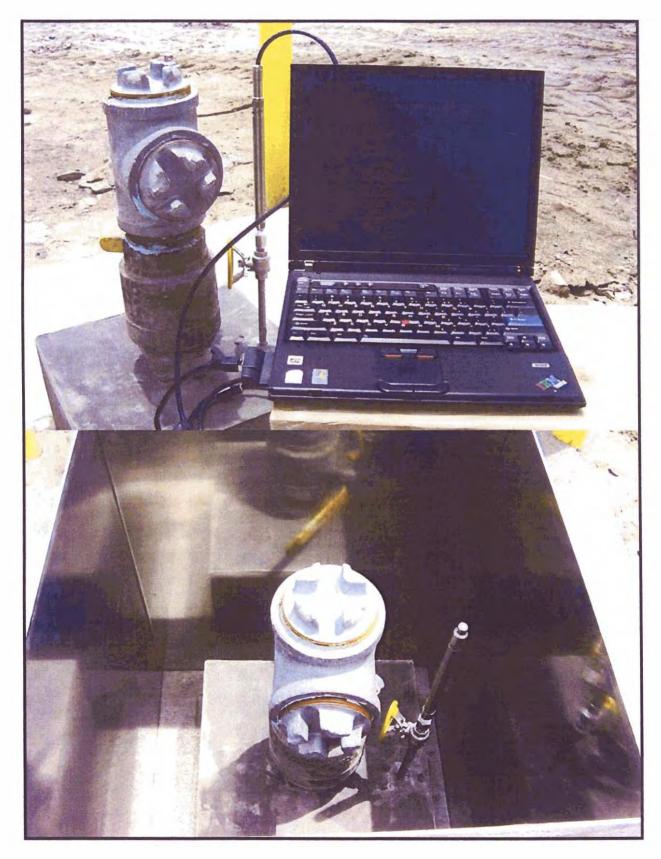


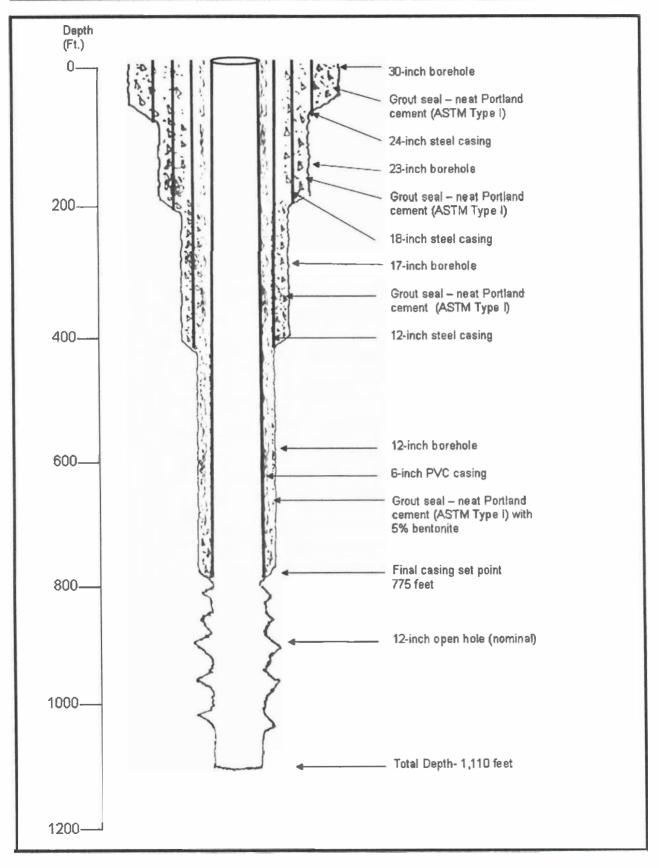
Figure 19 – Grout Pump, Discharge Hose, and Tremie Pipe















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3.1 Stratigraphy

CCI collected geologic formation samples (drill cuttings) during the drilling of the exploratory test well and separated them based on their dominant lithologic or textural characteristics and to a lesser degree color. Samples were collected every 10 feet or at each apparent formation change. Samples from 187 feet to 1,110 BLS were stored in lithologic sample bags and kept for future study. Figure 23 shows the samples collected during the drilling operations and the field microscope used for lithologic analysis and interpretation. Figure 24 shows the generalized geology and hydrogeology of Southwestern Florida. Appendix D contains the lithologic log developed from the drill cuttings.

Pliocene-Pleistocene Series

The undifferentiated sediments that comprise the Pliocene-Pleistocene age sediments occur from land surface to a depth of 58 feet BLS. These sediments generally consist of yellowish-grey to greenish-grey clay with varying amounts of shell and sand.

Tamiami Formation

The interval from 58 feet to 186 feet BLS comprises the Tamiami Formation. The Tamiami Formation consists of materials ranging from a light greenish-grey micritic limestone occurring from 70 to 105 feet BLS, to greenish-grey clayey and shelly sands occurring from 105 to 162 feet BLS, to the calcareous sandstone that marks the lower portion of the Tamiami Formation occurring from 162 to 186 feet BLS.

Miocene-Pliocene Series

Hawthorne Group

The Hawthorne Group is composed of a heterogeneous mix of siliclastics, silt, clay, calcareous clay, quartz sand, phosphate, limestone, and dolomite. The group is subdivided into two lithostratigraphic units (Scott, 1988). The upper unit is composed of predominantly siliclastic material of the Peace River Formation. The lower unit is composed principally of interbedded siliclastics and carbonates of the Arcadia Formation (Scott, 1988). At this site, the Hawthorne Group is relatively thick, occurring from 186 feet to 780 feet BLS.

Peace River Formation

The top of the Peace River Formation at this site is recognized as a light grey to olive grey sandy, shelly clay with minor phosphate content. The Peace River Formation extends from 186 feet to approximately 270 feet BLS where a light grey to olive grey, phosphatic sand is documented. The lithology at 270 feet BLS combined with the noted peak in the natural gamma ray log at a depth of 280 feet BLS appears to denote the top of the Arcadia Formation (Missimer, 2002).

Arcadia Formation

The Arcadia Formation is generally separated from the Peace River Formation by a lithologic change from predominantly unconsolidated siliclastics to mixed-siliclastics-carbonate sediments (Bennett, 2003).

The lithology encountered at 270 feet BLS was a light grey to olive grey, phosphatic sand with varying amounts of silt, shell and clay continued until a depth of 310 feet. A

very pale orange limestone containing sand and phosphates was found from 310 to 325 feet BLS. Similar lithology consisting of interbedded sandy, phosphatic clay and thin beds of slightly indurated carbonate were found between 325 feet and 480 feet BLS. At 480 feet BLS, a light grey limestone/dolostone was documented. The dolostone material continued until 520 feet BLS. The lithology below 520 feet BLS changes to a more unconsolidated siliclastic sequence composed of phosphatic clays with varying amounts of sand and thin layers of non-indurated carbonates.

The lower portion of the Arcadia Formation is also known as the basal Hawthorne Unit and consists of more carbonate material and less siliclastic material. A series of sediments known as the "marker unit" defines the top of the basal Hawthorne unit (Reese, 2000). The top of the marker unit is marked by a series of high gamma ray peaks. At this site, the top of the marker unit appears to be at 540 feet BLS based on the lithology and the two gamma ray peaks seen at approximately 540 feet and 600 feet BLS. These peaks document thin beds with elevated phosphate content. Between these intervals, the composition of the basal Hawthorne generally consists of limestone containing low phosphatic and quartz sand content.

Generally, the lithology below the marker unit is variable. At this site, the lithology of the lower part of the basal Hawthorne unit consists of light grey, sandy limestone with varying amount of phosphates. These sediments are documented from 600 feet to approximately 710 feet BLS where a dolomitic limestone or dolostone is documented. The dolomitic lithology continues from 710 feet to 750 feet BLS. At 750 feet BLS, a medium-grey, friable quartz-rich, phosphatic sandstone was documented. This calcareous sandstone unit was documented from 750 feet to 810 feet BLS. A noted spike in the gamma ray log from 750 feet to 770 feet BLS combined with the lithologic change to a calcareous sandstone from 750 feet to 810 feet BLS indicates the base of the Hawthorne Formation.

Oligocene Series

The Suwannee Limestone denotes the first occurrence of Oligocene age material. The dominant lithology of the Suwannee Limestone is a pale orange, fossiliferous limestone with minor amounts of quartz sand and a significantly lower phosphatic content. The top of the Suwannee Limestone is often recognized by a large decrease in the gamma ray response as compared to the basal Hawthorne. At this site, the gamma ray log documents this decrease at 770 to 780 feet BLS.

Although this gamma ray decrease often marks the top of the Suwannee, lithologic samples collected during drilling suggest that the calcareous sandstone at the base of the Hawthorne Formation occurs from 750 feet to 810 feet BLS. Therefore, the top of the Suwannee Limestone at this location is placed at 810 feet BLS.

The pale orange to tan, fossiliferous limestone documented at 810 feet continues to 910 feet BLS. At 910 feet BLS, a very fine grained quartz sand and clay was documented. This unconsolidated siliclastic material continues to 925 feet BLS. This layer of unconsolidated material denotes a transition from a more pure carbonate material seen in the upper portion of the Suwannee Limestone to interbedding of carbonates and siliclastic materials with increased phosphatic content in the lower portion of the

Suwannee Limestone. The increased gamma ray spikes seen in the gamma ray log from 920 feet BLS to the base of the open hole at 1,110 feet BLS supports transition.

It does not appear that the Ocala Formation was encountered in this well based on a lack of key index fossils such as the large benthic foraminifera (Operculinoids, Camerina, or Lepidocyclina) and the lack of gamma ray attenuation similar to the top of the Suwannee Limestone.

3.2 Hydrogeology

Three major aquifer systems underlie this site; the surficial aquifer system, the intermediate aquifer system, and the Floridan aquifer system. The upper Floridan Aquifer is the primary focus of this exploratory well program. These aquifer systems consist of discrete aquifers separated by low permeability sediments which act as confining units to varying degrees.

Surficial Aquifer System

The surficial aquifer system at this location is comprised of three main producing intervals separated by low permeability sediments that occur from land surface to a depth of 186 feet BLS. An unconfined aquifer is present from land surface to 25 feet BLS where a zone of lost circulation has been documented at its base. An interval primarily consisting of a yellowish-grey clay is present from 25 feet to 70 feet BLS.

A second producing interval is documented from 75 feet to 105 feet BLS where a moderately indurated shelly sandstone is found. This second producing interval is followed by another sequence of low permeability sediments consisting primarily of a olive grey, sandy clay is documented from 105 feet to 162 feet BLS.

A lithologic change from the unconsolidated siliclastics to a moderately indurated sandy limestone or calcareous sandstone occurs from 162 feet to 186 feet BLS. This sequence is part of the producing interval of the Tamiami Formation which is at the base of the surficial aquifer system.

Intermediate Aquifer System

Below the surficial aquifer system is the intermediate aquifer system which extends from 186 feet to approximately 700 feet BLS. The lower portion of the Tamiami Formation and the sediments of the Hawthorne Formation act as confining units separating the surficial aquifer system and the Floridan aquifer system. Lithologic samples obtained from the drilling of ETW-1 indicate that the Hawthorne Formation sediments consist of unconsolidated shell beds, clay beds, quartz-phosphate sand units, and some low to moderately indurated carbonates.

The intermediate aquifer in Southwest Florida contains multiple producing zones separated by low permeability, inter-aquifer confining units (Bennett, 2003). At this site, it appears some of the producing intervals in the intermediate aquifer are small and may not be extensive. The top of the intermediate aquifer system is noted by low permeability sediments including silts and clays from 186 feet to 310 feet BLS. Based on well cuttings, a minor producing interval appears from 310 feet to 325 feet BLS.

Below this interval a thick sequence of low permeability sediments occurs from 325 feet to 480 feet BLS. Another producing interval was documented from 480 feet to 510 feet BLS where a light grey, sandy phosphatic limestone was documented. This is likely what other refer to as the mid-Hawthorne aquifer. At this site, this producing interval appears to be limited in both thickness and in capacity based on lithology. Below 480 feet, another sequence of low permeability sediments interbedded with thin carbonate units extend from 480 feet to 600 feet BLS.

Floridan Aquifer System

The top of the Floridan aquifer system coincides with the top of a vertically continuous permeable carbonate sequence as defined by the Southeastern Geological Society AdHoc Committee on the Florida Hydrostratigraphic Unit Definition (1986).

The upper Floridan Aquifer consists of thin, highly permeable water-bearing intervals interspersed with thick sequences of low permeability sediments including the basal Hawthorne (base of Arcadia Formation), the Suwannee and Ocala Limestone's, and the Avon Park Formation. At this site, the top of the Floridan aquifer system occurs at a depth of 660 feet BLS, which coincides with the top of the basal Hawthorne unit or lower portion of the Arcadia Formation.

On a regional scale, two zones of high permeability exist within the upper Floridan Aquifer and typically lie between 700 and 1,300 feet BLS (Bennett, 2003). The most transmissive parts usually occur near the top coincident with the unconformities between the Miocene and Oligocene-aged formations (Hawthorne-Suwannee) and also the contact between the Suwannee and Ocala Limestone's (Miller, 1986).

At this site, only the upper regional producing interval was encountered. Within the upper producing interval, the first productive zone appears to lie between 660 and 920 feet and includes the basal Hawthorne unit and the upper portion of the Suwannee Limestone. This unit generally consists of a light grey to pale orange, moderately indurated limestone.

The contact between the basal Hawthorne unit and the Suwannee Limestone documented at 780 feet to 800 feet BLS indicates a solution feature as seen on the caliper log. The flow meter log shows a positive deflection at 780 feet indicates increased water production at this depth. A second significant solution feature documented by the caliper log between 890 and 910 feet BLS also coincides with a positive deflection on the flow meter log indicating another increased producing interval. A third solution feature documented by the caliper log at 1,030 feet BLS also coincides with a positive deflection on the flow meter log indicating another increased producing interval.

CCI selected the interval from 770 feet to 1,110 feet BLS for long term monitoring and hydraulic testing based on analysis of drilling, geophysical, and lithologic data. Data collected from future pilot holes and production wells will be used to refine the specific interval that will be targeted for full-scale production purposes.



Figure 23 – Lithologic Samples and Field Microscope

Series Geologic Unit		Approximate thickness (feet)	Lithology	Hy	vdrogeologic unit	Approximate thickness (feet)	
HOLOCENE	UNDIFFERENTIATED	0-70	Quartz sand, silt, clay, and shell	NL. STEM	WATER-TABLE AQUIFER	20 - 100	
TO PLIOCENE	NE FORMATION 0-175 Silt, sandy limestone, limestone,	0.175	Silt, sandy clay, micritic limestone, sandy, shelly	SURFICIAL AQUIEER SYSTEM	CONFINING BEDS	0-60	
		limestone, calcereous sand- stone, and quartz sand	NQV.	LOWER TAMIAMI AQUIFER	25-160		
MIOCENE AND LATE OLIGOCENE	NUL CIT		Interbedded sand, silt, gravel, clay, carbonate, and phosphatic sand	·ER	CONFINING UNIT	20-100	
	A PEACE RIVER 5 FORMATION	50-400		INTERMEDIATE AQUITER SYSTEM	SANDSTONE AQUIFER	0 -100	
	5 FORMATION			NSILE	CONFINING UNIT	10-250	
	Z ARCADIA FORMATION		Sandy limestone, shell beds, dolomite, phosphatic sand	FINAL	MID-HAWTHORN AQUIFER	0-130	
	FORMATION	400-550	and carbonate, sand, silt,	IN	CONFINING UNIT	100-400	
	H		and clay		LOWER HAWTHORN PRODUCING ZONE	0-300	
EARLY OLIGOCENE	SUWANNEE LIMESTONE	0-600	Fossiliferous, calcarentic limestone	SYSTEM	UPPER FLORIDAN	700-1,200	
IMI	OCALA LIMESTONE	0-400	Chalky to fossiliferous, calcarenitic limestone	ŀĿŔ	AQUIFER		
EOCENE ATAVE	AVON PARK FORMATION 2	900-1,200	Fine-grained, micritic to fossiliferous limestone.	AQUIFFR	MIDDLE CONFINING UNIT	500-800	
	OLDSMAR FORMATION	800-1,400	dolomitic limestone, dense dolomite, and gypsum	P.CRIDAN	LOWER FLORIDAN BOULDER AQUITER ZONE	1,400-1,800 400	
PALEOCENE		CEDAR KEYS	500-700	Dolomite and dolomitic limestone	FL.C		
	FORMATION	1.200 ?	Massive anhydrite beds		SUB-FLORIDAN CONFINING UNIT	1,200?	

4.0 Hydrogeologic Testing



Water Resource Consultants

CCI collected data during the drilling program to determine the lithologic, hydraulic, and water quality characteristics of the Upper Floridan Aquifer. These data were used to determine the final design criteria of the test well, select casing set point, and assist with the design of the production wells planned for the near future.

4.1 Geophysical Logging

Geophysical logging was conducted on the pilot hole at various stages of the drilling program. The geophysical logs provide a continuous record of the physical properties of the subsurface formations and the fluid within those formations. These logs were used to assist in the interpretation of lithology, identification of producing and confining intervals, and determine the fluid conductivity profile of the formation fluids.

The geophysical logging contractors downloaded data directly from the on site logging processor onto diskettes or CDs. MV Geophysical Surveys, Inc. (MVGS) and Aquifer Data Systems, Inc. (ADS) provided geophysical logging services. **Table 4-1** is a summary of the geophysical logging program conducted at this site. **Figures 3 and 13** show the geophysical logging operations.

Date	Logging Contractor	Logged Interval (Feet BLS)	Caliper	Gamma Ray	Dual Induction (LL3/SP)	Flow Meter	Temp	Fluid Cond.	Video
05/10/07	ADS	0-420	Х	X					
06/05/07	MVGS	0-1110	Х	X	Х	X	Х	Х	X

Table 4-1 – Summary of Geophysical Logging Operations

The geophysical logging conducted on May 10, 2007 by ADS was to assist with determining lithology and to confirm that the borehole diameter was sufficient to allow installation and grouting of the 18-inch steel casing. CCI wanted to review and interpret the gamma ray log to assist with determining if the borehole had reached the top of the marker unit of the basal Hawthorne unit (lower portion of the Arcadia Formation). The caliper log was conducted to ensure that the borehole remained open and would allow sufficient space to install and grout the 18-inch steel casing with a minimum of a 2-inch annulus.

The results of the May 10, 2007 logging indicated that the borehole had not yet reached the top of the marker unit of the basal Hawthorne and that the borehole would allow for proper casing installation and grouting.

The geophysical logging conducted on June 5, 2007 by MVGS was to provide a continuous geophysical record of the entire borehole. A down-hole TV survey was also conducted on June 5, 2007 by MVGS. The TV survey was intended to be used to observe borehole features which would assist with selecting a casing setting depth and locating producing intervals. Appendix B contains the geophysical logging output from the various log runs performed by MVGS on June 5, 2007. Appendix C contains a copy of the TV video on DVD.

Key features of the intermediate and Floridan aquifer systems documented from the geophysical logging operations conducted by MVGS on June 5, 2007 include the following:

Caliper Log

- A solution feature in the basal Hawthorne unit can be seen from 610 feet to 640 feet BLS.
- A second, smaller solution feature in the basal Hawthorne unit is observed from 680 feet to 700 feet BLS
- A significant solution feature is observed at 780 feet to 800 feet BLS which is interpreted as the unconformity contact between the basal Hawthorne unit and the Suwannee Limestone.
- A second significant solution feature is observed in the Suwannee Limestone is seen from 890 feet to 910 feet BLS.
- The caliper log confirms the depth of a zone of unconsolidated siliclastics within the Suwannee Limestone at 920 feet to 930 feet BLS.
- A small solution feature in the lower portion of the Suwannee Limestone is observed at 1,030 feet BLS.

<u>Gamma Ray Log</u>

- The small peak on the gamma ray log at 280 feet BLS is likely the contact between the Peace River Formation and the Arcadia Formation of the Hawthorne Group.
- The gamma ray peaks seen at 540 feet, 600 feet, and 640 feet BLS are interpreted as the "marker unit" which identifies the top of the basal Hawthorne unit (or Lower portion of the Arcadia Formation).
- The gamma ray peak and relatively rapid attenuation in gamma ray activity documented at 750 feet to 770 feet BLS marks the contact between the basal Hawthorne unit and the top of the Suwannee Limestone.
- The gamma ray peak noted at 920 feet BLS and subsequent peaks noted from 920 feet to total depth are interpreted as the transition from the upper part of the Suwannee Limestone to the lower portion of the Suwannee Limestone where more siliclastic an phosphatic materials exist.

Fluid Conductivity & Temperature Logs

- The fluid conductivity log documents a general trend of increasing conductivity with depth which correlates to the water quality of the fluids encountered. Higher conductance is tied to increasing chloride concentrations of the formation waters.
- The fluid conductivity profile that shows a shift at 670 feet BLS, combined with the temperature shift at the same depth are interpreted as denoting the top of the producing interval of the basal Hawthorne unit.
- A similar increase in the fluid conductivity and temperature logs are documented at 720 feet BLS denoting increasing chloride concentrations.
- The temperature fluctuations (delta T) documented from 790 feet to 820 feet BLS are interpreted as zones of increased flow and permeability. These features, which correlate with the caliper log and gamma ray log, document the

unconformity known to occur at the contact between the basal Hawthorne unit and Suwannee Limestone.

• The Delta T and shift in the fluid conductivity documented at 860 feet BLS are interpreted as zones of increased flow and permeability.

Flow Meter Log

- The positive deflections observed in the flow meter log shows two zones of increased water production. These zones correspond to the temperature log and caliper log which show solution features at 780 feet to 800 feet BLS and again at 890 feet to 910 feet BLS.
- A general positive deflection of the flow meter log observed from 790 feet to 900 feet BLS indicate that this appears to be a sequence of higher production relative to the zone above and below this.
- A second trend of positive deflection on the flow meter log is observed from 1,010 feet to 1,080 feet BLS also indicates a sequence of higher production.

Borehole TV Survey

- The TV survey documented the bottom of the 12-inch casing at 411 feet BLS. The grout seal at the base of the 12-inch casing appeared to be in good condition.
- The clarity of the TV survey was poor due to production of a very fine sand at 915 feet to 920 feet BLS. Visual observations became more difficult with depth.
- The borehole wall from 765 feet to 775 feet showed no large karst solution features, which assisted in selecting a final casing setting depth of 770 feet BLS.
- Small to medium sized solution features (cavities) were noted between 780 feet and 917 feet from close observation of the TV survey.
- The geophysical logging contractor did not want to run a TV camera below 917 feet BLS due to the lack of visibility caused by the flowing sands at this depth.

4.2 Water Quality Sampling and Analysis

Field Water Quality

CCI began collecting field water quality samples at 650 feet BLS once the drilling method changed from mud rotary to reverse air circulation. Samples were collected every 30 feet at each drill rod change. Additionally, field water quality samples were collected after the well was completed and developed. The water quality data parameters included pH, temperature, conductivity, total dissolved solids (TDS), chlorides, and total Iron. **Table 4-2** summarizes the results of field water quality sampling. As can be seen from this table, a general trend of increasing conductivity, TDS, and chlorides was documented. **Figure 25** shows the field sampling equipment used for field water quality testing.

				Param	eters		
Depth (Feet BLS)	Date	Conductivity (uS)	TDS (ppm)	Temp (°F)	рН	Chlorides (mg/L)	Total Iron (mg/L)
650	5/24/07	1,962	926	84.2	6.0-6.5	495	0.32
680	5/24/07	3,780	1,860	84.5	6.0-6.5	598	0.05
710	5/24/07	4,020	1,980	84.2	~6.0	739	NC
740	5/24/07	4,280	2,140	82.9	~6.0	739	NC
770	5/25/07	4,430	2,220	83.7	6.5	667	0.05
800	5/25/07	4,490	2,250	80.8	6.5	598	0.48
830	5/25/07	4,550	2,280	81.7	6.5	897	0.90
860	5/25/07	4,840	2,430	80.6	6.5	983	NC
890	5/25/07	4,990	2,480	82.4	6.5	983	0.08
924	5/29/07	4,950	2,460	84.0	6.0-6.5	923	1.98
954	5/29/07	5,300	2,670	85.8	6.0-6.5	1,075	NC
985	5/29/07	5,260	2,630	86.0	6.0-6.5	1,075	0.85
1,016	5/29/07	5,280	2,660	85.1	6.5	1,075	0.35
1,048	5/29/07	5,480	2,730	84.6	6.5	1,075	0.25
1,080	5/29/07	5,740	2,880	84.6	6.5	1,172	0.49
1,110	5/30/07	5,670	2,830	82.1	6.5	1,172	0.13
Finished Well	6/29/07	4,760	2,390	88.3	~6.0	1,172	0.27
Finished Well	7/14/07	4,780	2,400	88.5	~6.0	1,275	0.19

Table 4-2 – Summary of Field Water Quality

Notes:

NC - Not Collected

uS - micro Siemens

ppm - parts per million

*F -- Degrees Fahrenheit

mg/L - milligrams per liter



Figure 25 – Field Water Quality Testing Equipment

Laboratory Sampling and Analysis

CCI collected water samples for laboratory analysis on July 14, 2007 at the conclusion of well construction, development, and initial specific capacity testing. The samples included the analytical parameters that are recommended in ASTM D4195 – Water Analysis for Reverse Osmosis Application (ASTM, 2003). The samples were delivered and analyzed by US Biosystems, Inc. in Boca Raton, Florida. The results of the laboratory analyses are summarized in Table 4-3. A complete copy of the laboratory analyses and chain of custody are contained in Appendix E.

The results from the laboratory analyses will assist in the design of the planned Reverse Osmosis (RO) Water Treatment Plant (WTP) by providing a comprehensive analysis of the potential feed water. The performance of RO membranes is strongly influenced by the chemical composition of the feed water (raw ground water). Salt rejection is dependent upon the type, ratio, and total sum of specific ions. The data provided in this report will be important for determining salt rejection and permeate flow projections of an RO system using the upper Floridan Aquifer ground water.

Table 4-3 – Su	mmary of	Laboratory Analytical	Data
Parameter	Result (mg/L)*	Parameter	Result (mg/L)*
Hydrogen Sulfide (H ₂ S)	5.20	Aluminum (Total)	0.255
Total Organic Carbon	2.12	Aluminum (Dissolved)	<0.1
Carbon Dioxide(CO ₂)	4.1 (Q)	Barium	0.0288
рН	7.66	Calcium	148
Turbidity	2.0 NTU	iron (Total)	0.184
Total Dissolved Solids	2,800	Iron (Dissolved)	<0.20
Carbonate (CO ₃)	<2.0	Iron (Ferrous)	<0.10 (Q)
Bicarbonate (HCO ₃)	148	Silica ((SiO ₂)Total)	18.6
Chlorides	1,360	Silica ((SiO ₂)Dissolved)	16.1
Fluoride	0.468	Manganese (Total)	<0.01
Sulfate (SO ₄)	436	Manganese (Dissolved)	<0.01
Phosphate (PO4)	0.0177	Magnesium	143
Chlorine	<0.1 (Q)	Potassium	31.4
Nitrate (NO ₃)	<0.05	Sodium	581
		Strontium	17.2

Notes:

* - Results in milligram per liter (mg/L), unless otherwise noted.

NTU - Nephelometric Turbidity Units

Q - Holding time exceeded

4.3 **Specific Capacity Testing**

Step testing was performed on the completed well to determine the specific capacity of the well. Step testing was conducted on July 15, 2007. The specific capacity data summarized in Table 4-4 were calculated at the end of the step. The initial step was conducted by removing the stand pipe from the top of the well and allowing the well to flow under natural artesian conditions without pumping. Subsequent steps were conducted by pumping with a gasoline-driven 5-inch by 6-inch centrifugal pump with a 40 foot long, 4-inch PVC drop pipe installed in the top of the well. Figures 26 & 27 show step testing operations.

Parameter	Step No. 1*	Step No. 2	Step No.3
Flow Rate (GPM)	150	275	330
Static Water Level (ft)	5.65	5.65	5.65
Pumping Water Level (ft)	18.10	35.50	46.25
Drawdown (ft)	12.45	29.85	40.60
Specific Capacity (GPM/ft)	12.05	9.20	8.13

Summony of Stop Testing Date Table 4 4

* - manually-calculated artesian flow rate at top of 6-inch casing without pumping Note:

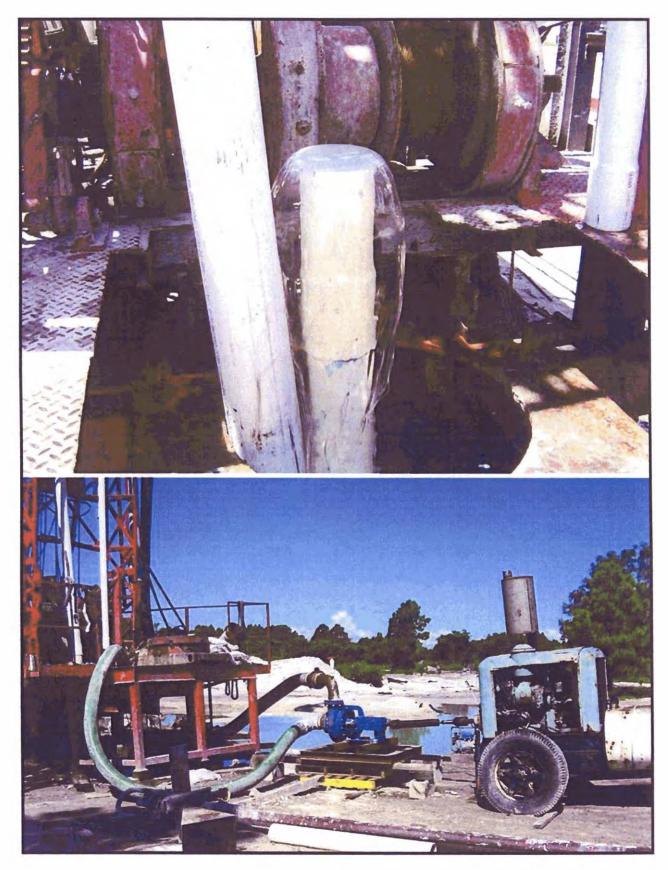


Figure 26 – Artesian Flow and Step Testing Set Up

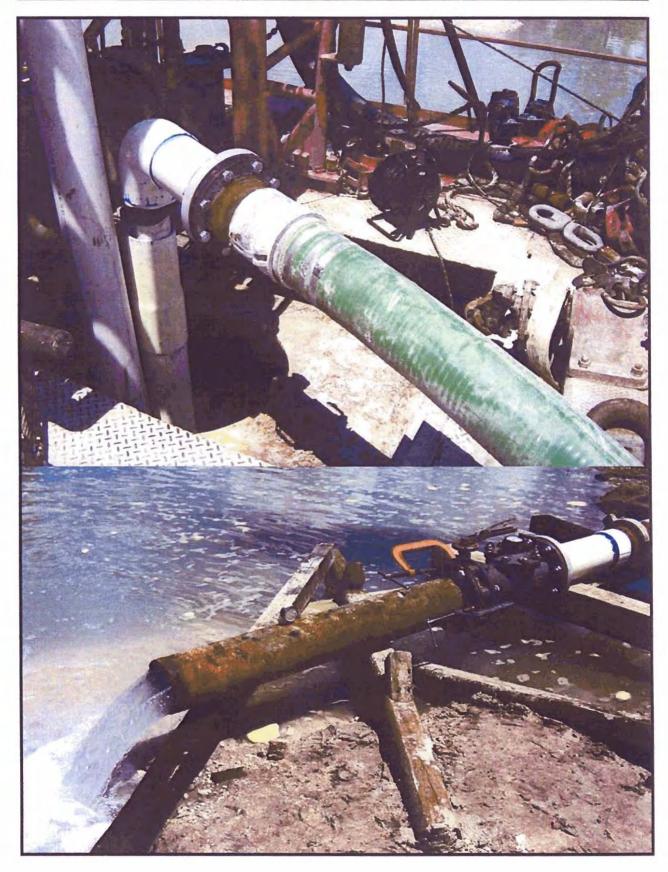


Figure 27 – Step Testing Drop Pipe and Discharge Assembly

5.0 Conclusions and Recommendations



5.0 Conclusions and Recommendations

The following conclusions are made based on the drilling and testing of the exploratory test well:

- The purpose of this study was to investigate the potential use of the brackish waters in the mid Hawthorne aquifer, the lower Hawthorne aquifer, and the upper Floridan aquifer as an Alternate Water Source.
- The site is underlain by three primary aquifer systems; the surficial aquifer system, the intermediate (Sandstone) aquifer system, and the Floridan aquifer system.
- The lithology beneath the site is a thick sequence of siliclastic and carbonate formations dominated by unconsolidated siliclastic materials, sandstone, limestone, and dolomitic limestone (dolostone) representing the three aquifer systems.
- The surficial aquifer system includes lithologic material from land surface to a depth of 186 feet at the base of the lower sandstone unit of the Tamiami Formation.
- The intermediate aquifer system occurs at the base of the surficial aquifer system at 186 feet and includes the Peace River and Arcadia Formations which are comprised of a mixture of siliclastics sediments and carbonate sequences that form the mid and lower Hawthorne aquifers to a depth of 780 feet.
- The upper Floridan aquifer system includes the basal Hawthorne unit, Suwannee Limestone, the Ocala Limestone, and the Avon Park Formation. The exploratory test well penetrated the basal Hawthorne unit and Suwannee Limestone.
- The upper Floridan aquifer should serve as a reliable AWS of brackish ground water for use in an RO WTP.
- Water quality data from laboratory analysis of the ground water samples indicates that the water is suitable for use as the feed water for an RO WTP.

The following recommendations are made based on the results of well construction and testing:

- The use of the Upper Floridan aquifer system as an AWS appears to be viable at this location.
- FGUA should include this target source of brackish water in their Water Use Permit as an AWS
- With concurrence from SFWMD, FGUA should proceed with the quantification phase of this effort. This would include:
 - Design of a full size test/production design, construction, and testing of a full-scale Test/Production well.
 - Development of an APT Plan which would include the Exploratory Test Well as an observation well and the test/production well as the pumped well. The existing monitoring well network would be proposed as Intermediate (Sandstone aquifer, both upper and lower producing zones) and water table aquifer observation wells for the APT.
 - Conduct an APT to determine aquifer characteristics for the target brackish water source.

5.0 Conclusions and Recommendations

- Develop a ground water flow model to first design an AWS well field and second to determine the impact of ground water withdrawal utilizing the upper Floridan aquifer.
- Submit APT information and analyses, the ground water flow model and Impact Analysis and the well field design to SFWMD for review, revision and approval
- FGUA can proceed with well field and piping design, RO Water Treatment Plant, and concentrate disposal well design and permitting, once the SFWMD has approved the withdrawal.

6.0 References



6.0 References

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Appendices



Appendix A Lee County Well Construction Permit and Well Completion Report



Appendix A Well Permit and Completion Report

		SOUTHWEST FLORIDA
	Water W	ell
	PERM	T
Job Address Date of Construct Total Well Depth SPIE 1 2 3, 4, 5 6 7	IN BER: WEL2007-01389 FLORIDA GOVT UTILITY AUTHORITY ERIC PARSONS 12" TEST WELL / COMMERCIAL - "W 925 BOLIVIA DR 50n: Wol Use: TES	ISSUED: 03/23/07 EXPIRES: 09/23/07 ITH CONDITIONS ST Calons/Minule. ST Calons/Minule. States of Cannot States of Cannot
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VELL USE: Private Well (· · · ·		Grouk		een	Departing	Examine cuttings formation change	
	Fire Well (***) Other (X) UD ((X) or Air ((X) Cable		Thickness		neter	From - To	gtwocobr, gan str	e & type of material th toproducing zone.
*	n (T) Other (T)	10018 / 0018 /	& Depth	-	epth	0.5		
Ţ	23 feet above Fl. below	top of casing	5" & 41'	24"	41'	5-25		, medium grain
and the second se	N/A Ft. after N/A		5" & 188'	18"	188'			Limestone
	H.P. CAPACITY		5" & 412'	12"	412	25-58		ndy, grey to olive
			5.5"&775'	6"	775		-	tone/Limestone
	Galv. ([]) PVC ([X) Fi					105-162	Sandy	Clay, olive grey
¥- Y		- · ·				162-186	5	Sandstone
	47# (T) 94# (X) % Ac					186-480	Sandy Clay	with limestone beds
Crumbles ([]) EZ Sea	i([□) Other() <u>b</u> i					480-600	Limesto	one & sandy clay
	ASlot Size	N/A	# of Bags			600-820	Limestone,	grey - v. pale orange
CREEN: Type N//			used					
SCREEN: Type <u>N//</u> Screened from <u>775</u>	(ft) to1110 (ope	n hole) (fi)	0 sed			820-1,110	Limestone	w/ sand @ 910-925 ft.

Well Permit and Completion Appendix A Report

Print Form

Appendix B Geophysical Logs



Invoice No	Production String	Surface String	Casing Record				ONE 11.875"			Witnessed By		Doppredict Dec	l ocation	Failinment Numher	Time Logger on Bottom	Time Well Ready	Estimated Cement Top	Max. Recorded Temp	Density / Viscosity	Type Fluid	Open Hole Size	Log Interval	Bottom Logged Interval		Dopth Longo	Denth Driller	Run Number	Date	W Fic Co St	'eli eic ou at	l nty e/F	۲v	Lee	W nig e	/-1 gh	Aci	res	5							Copiny	Geonhysical				
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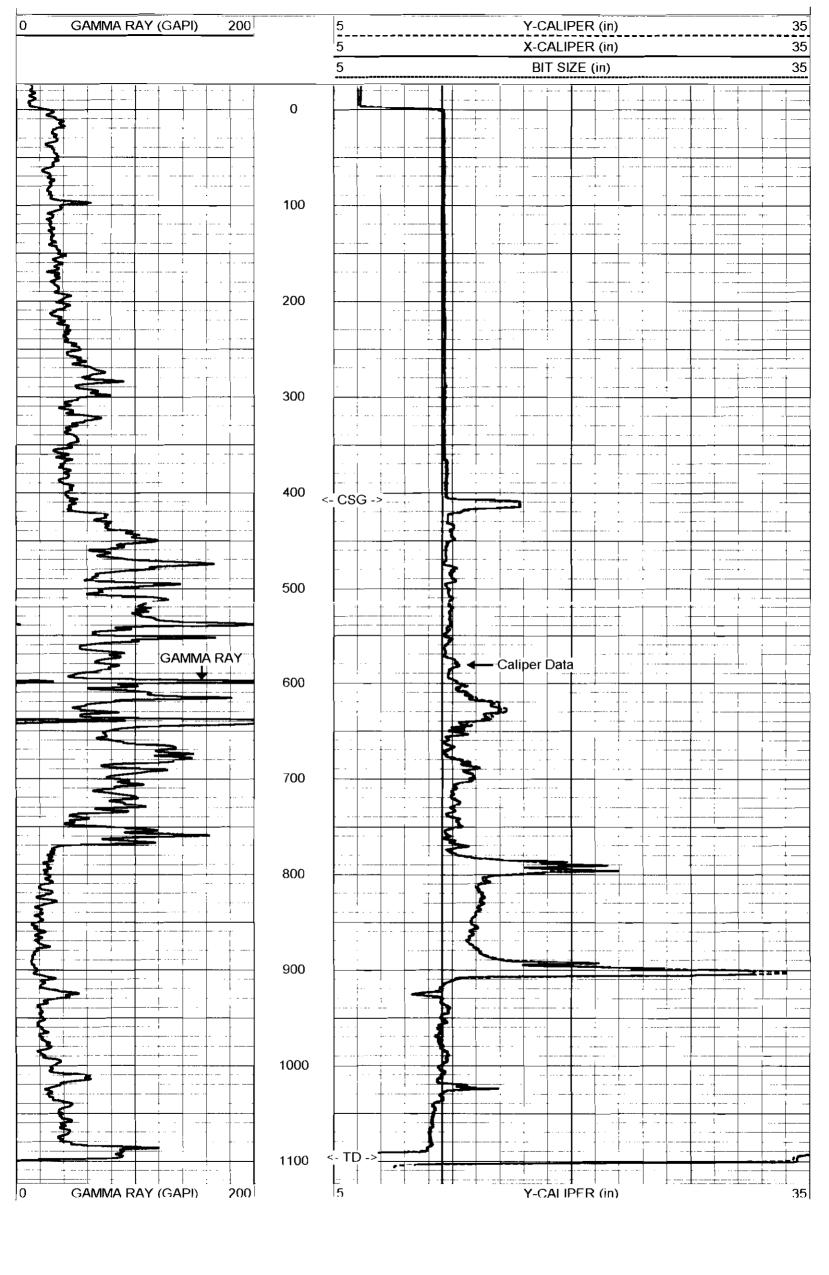


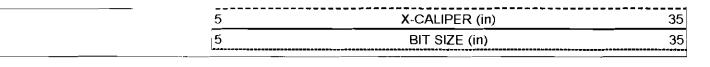
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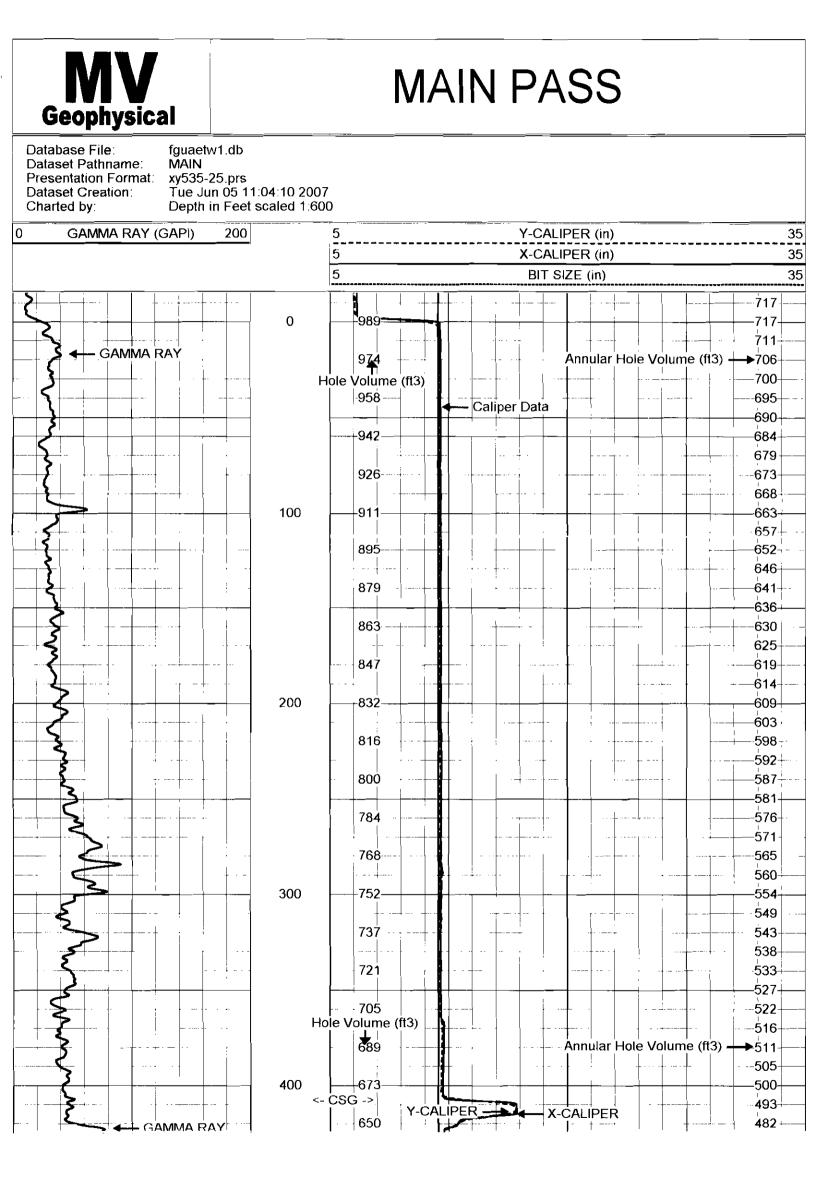
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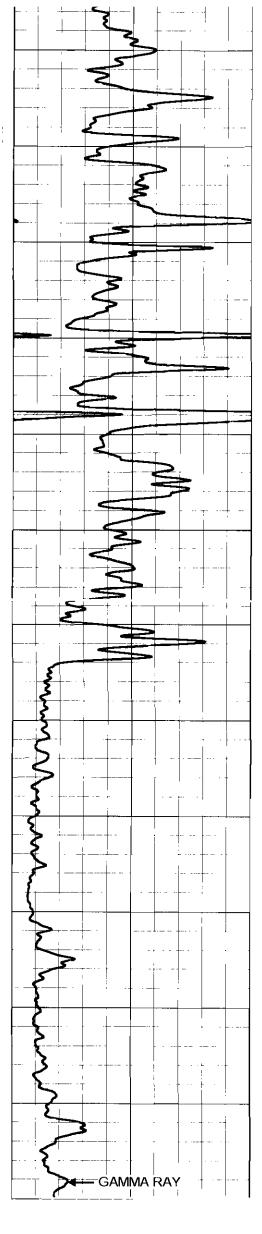
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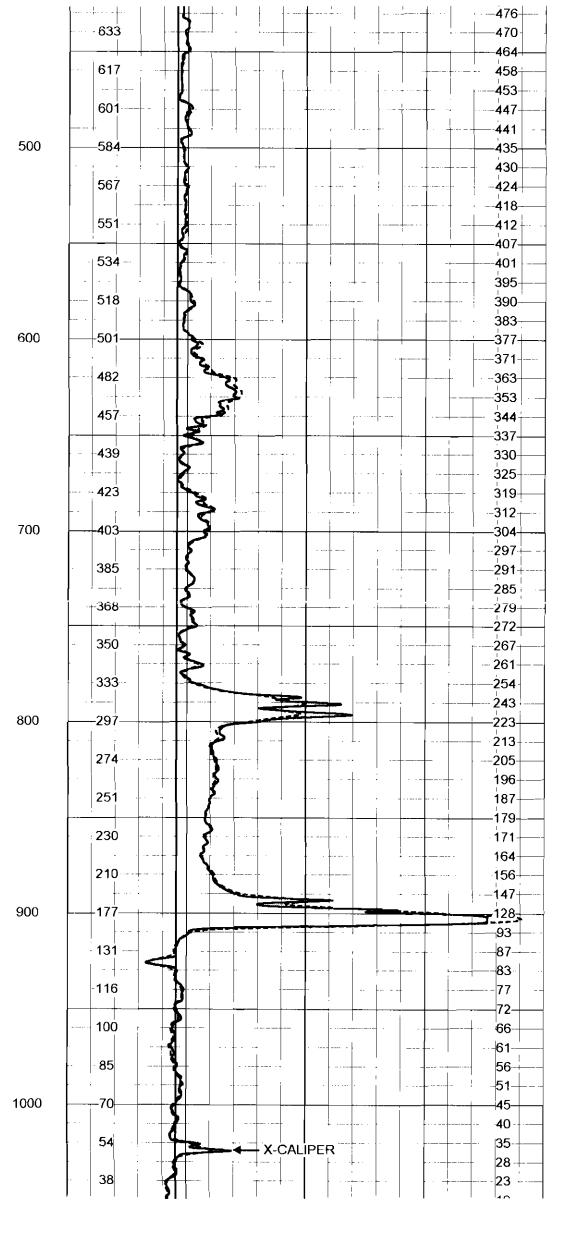
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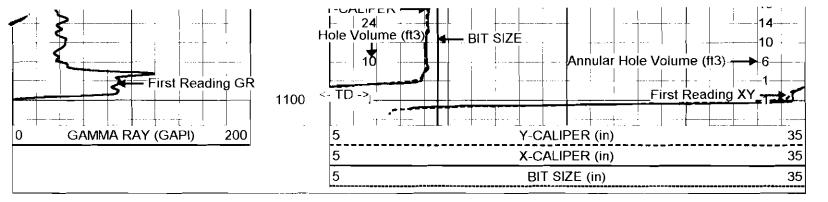


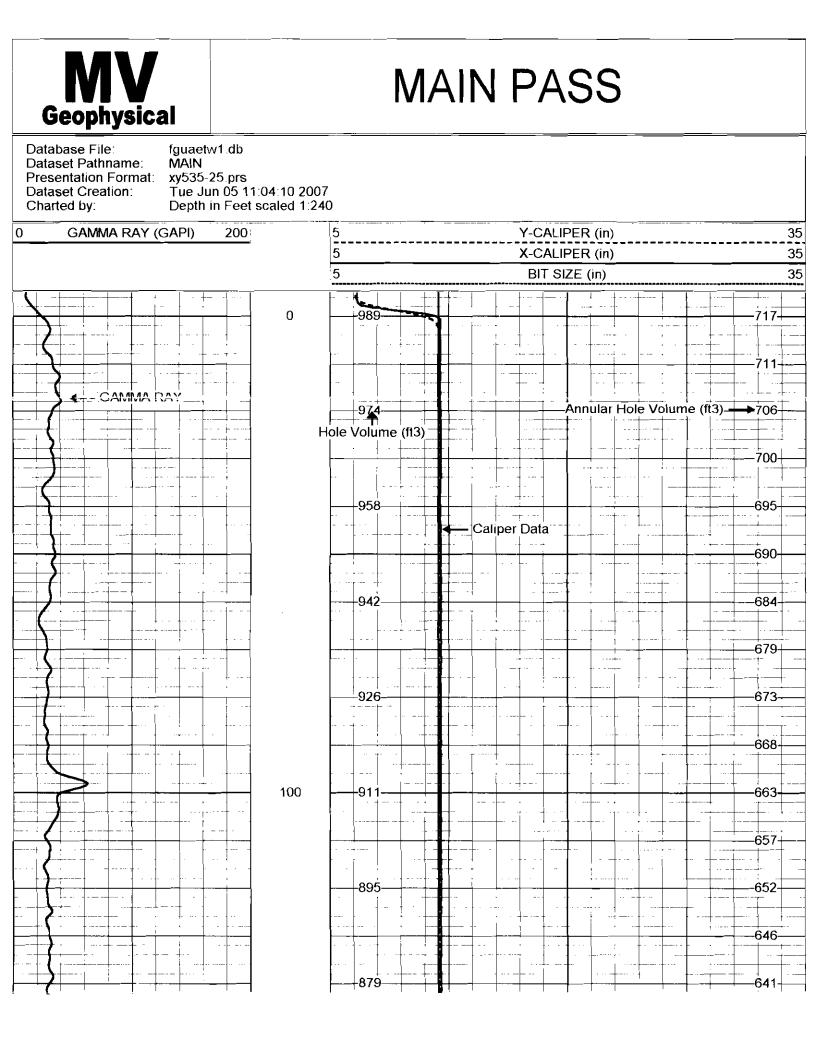


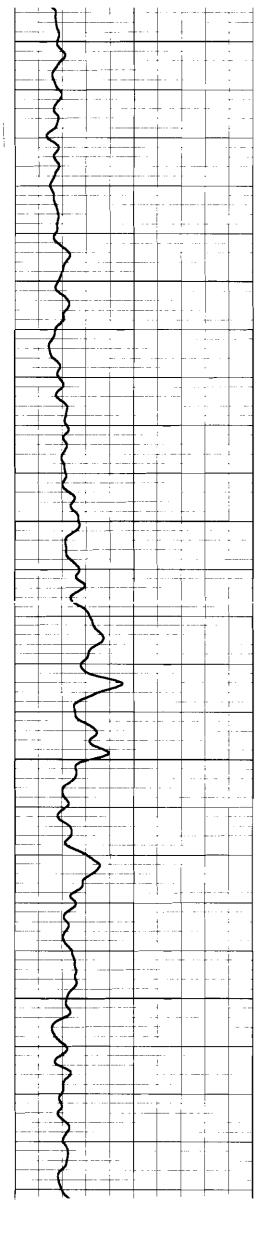


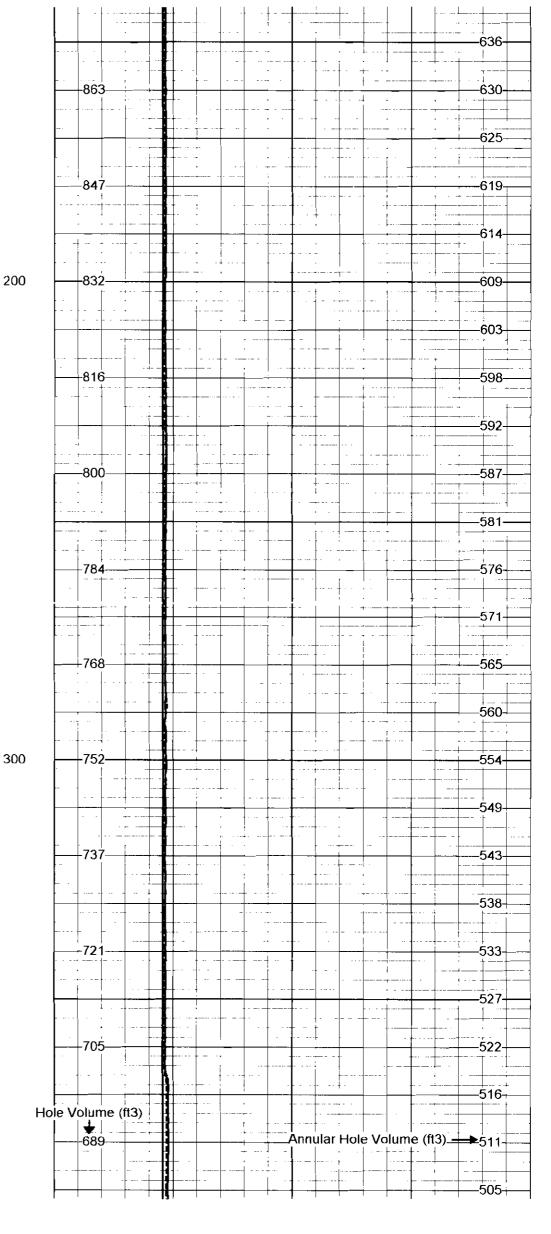


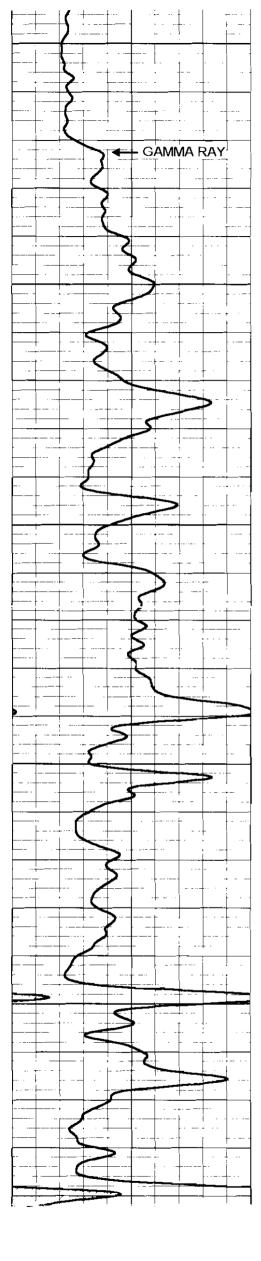


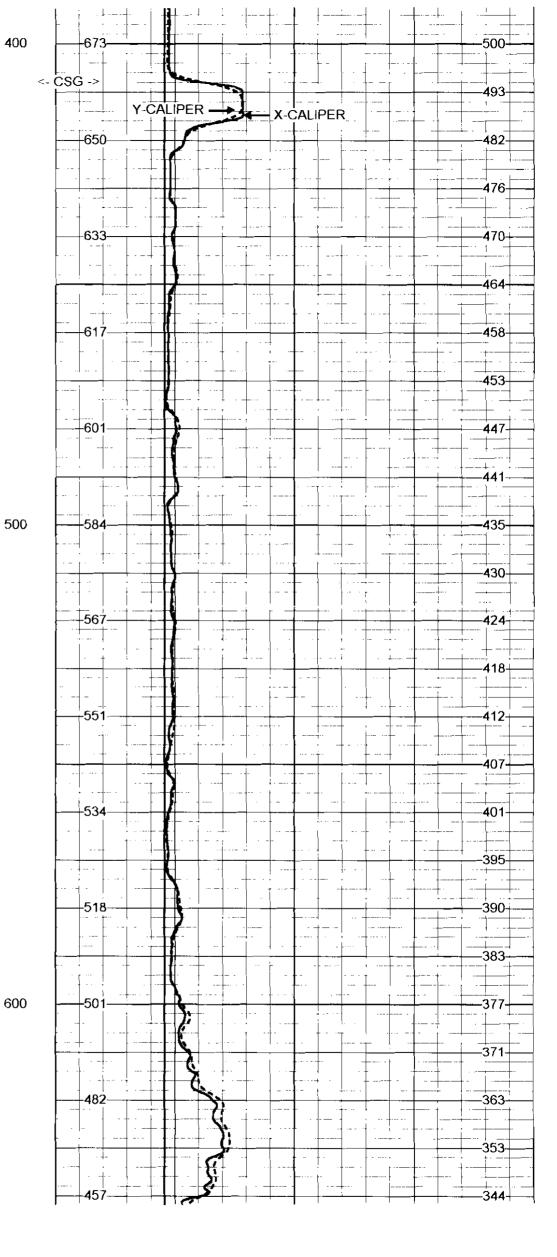


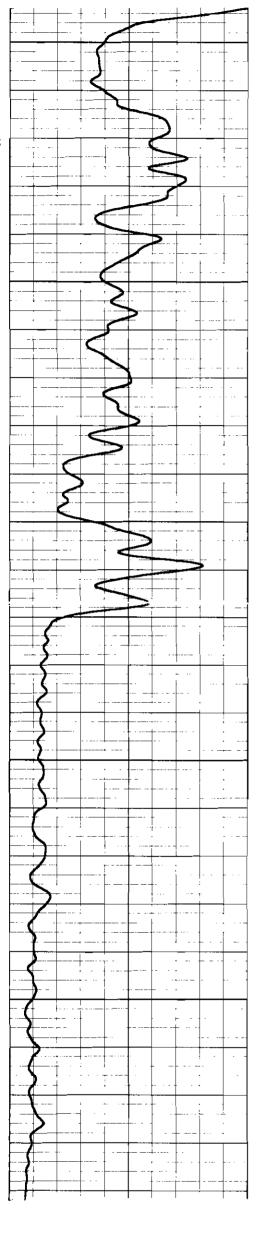


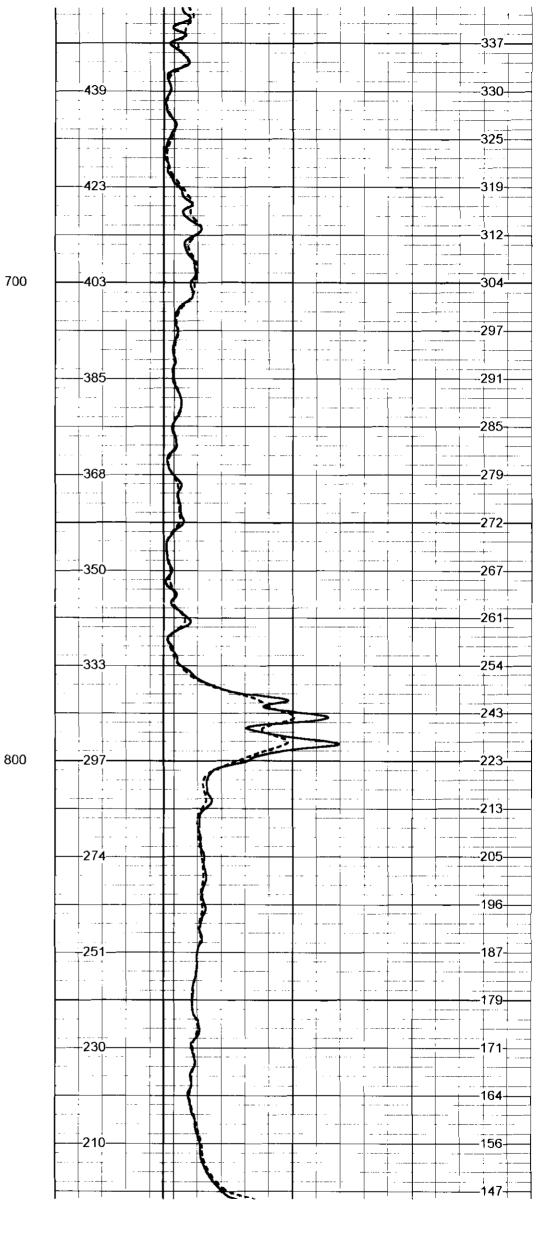






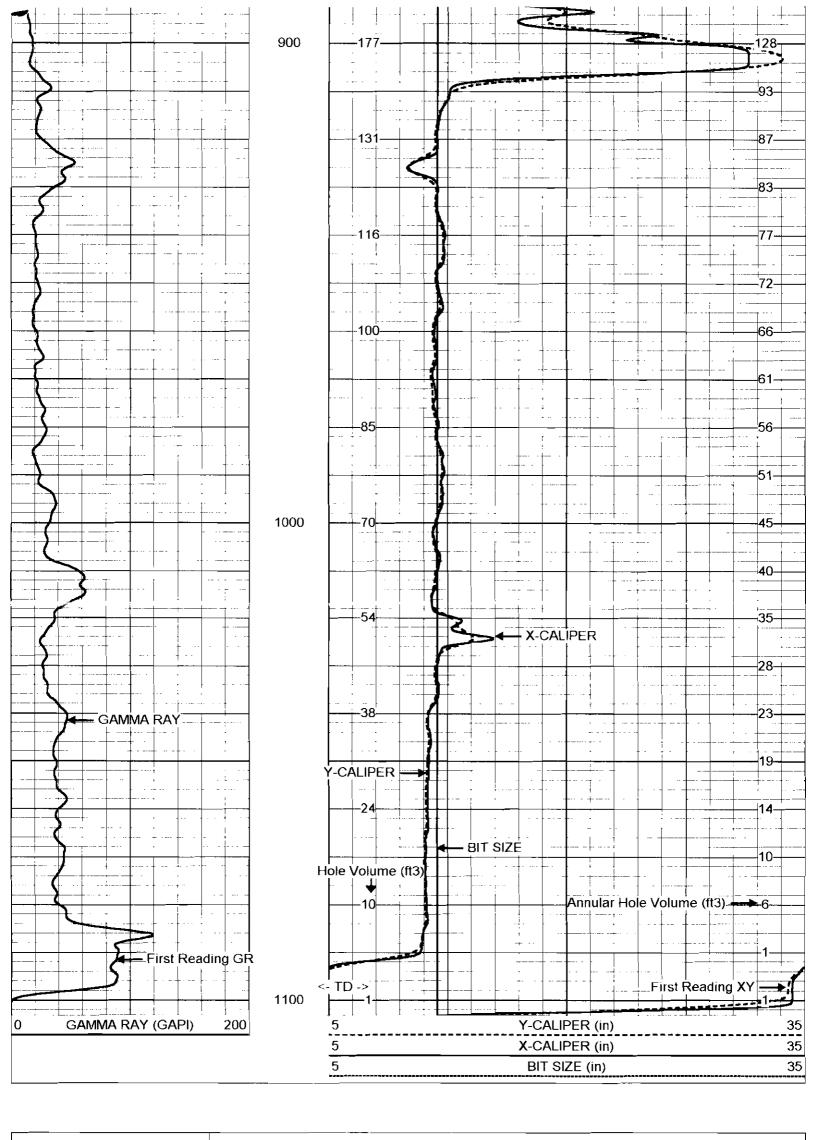


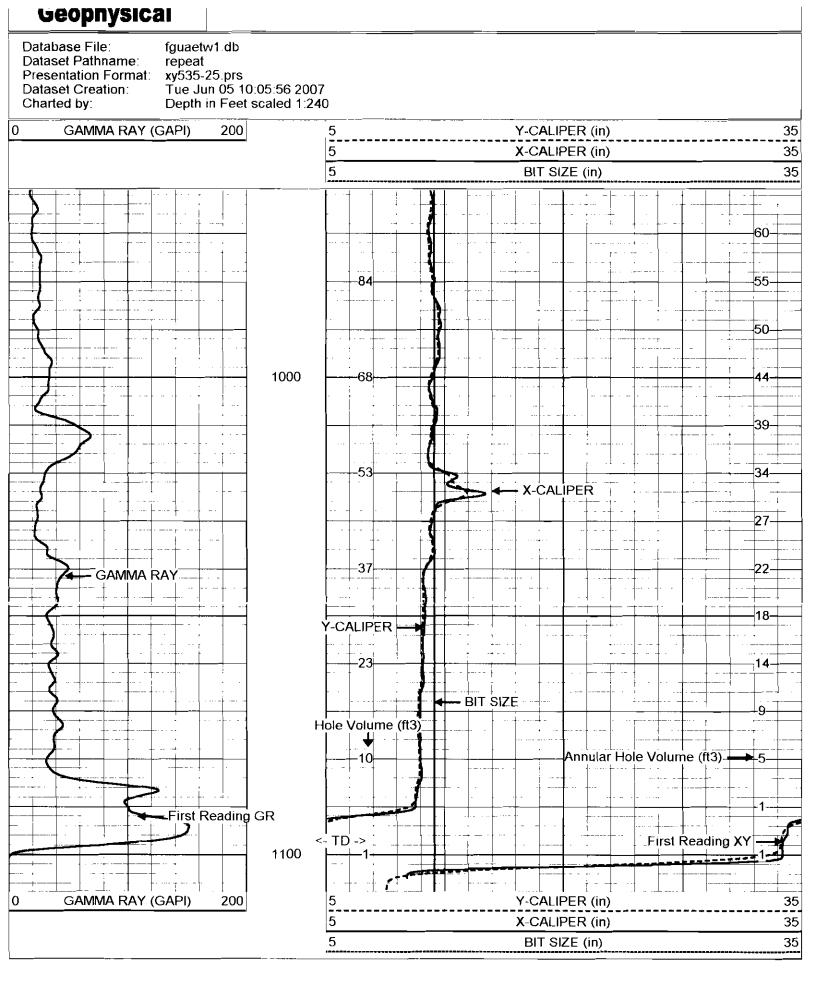




MV

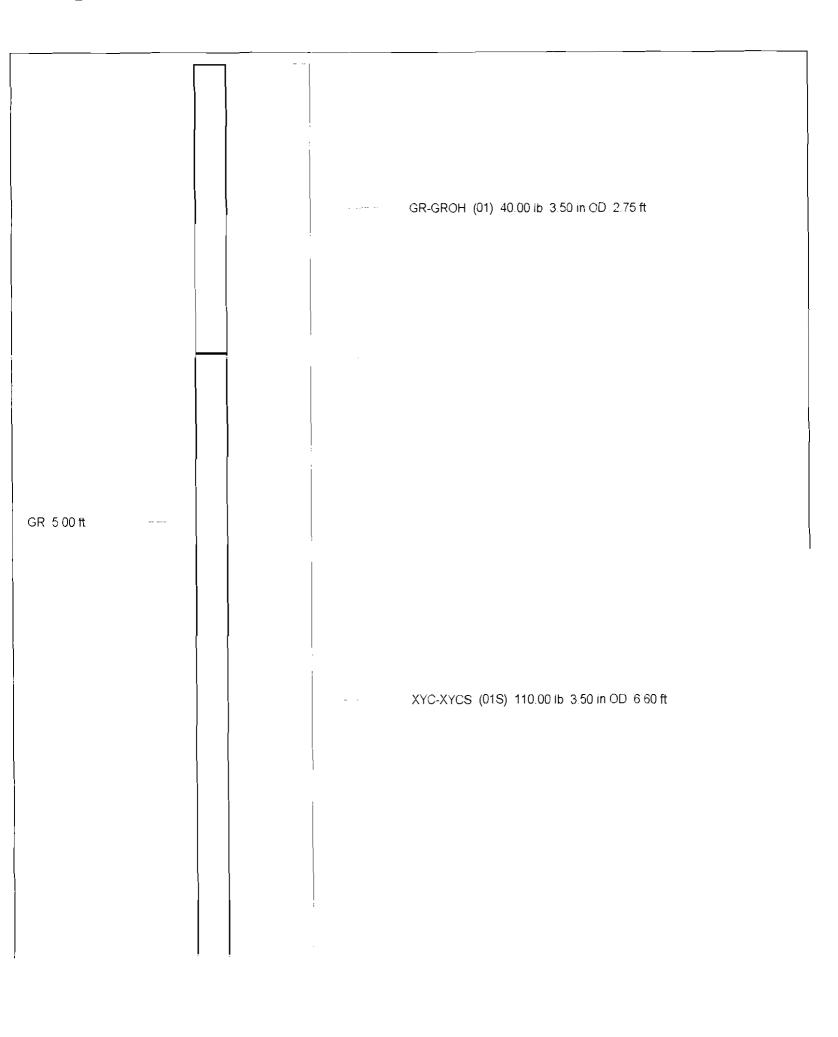
REPEAT SECTION





	XY Caliper Calibration Re	port		
Serial Number: Tool Model: Performed:	01S XYCS Tue Jun 05 10:29	:16 2007		
Small Ring: Large Ring:	12 33	in in		
	X Caliper	Y Caliper		
Reading with Small Ring Reading with Large Ring	1208.6 2004.2	1214.5 1983	cps cps	

Gain: Offset:	0.02639		0.027326 -21.1874	
	Gamma Ray Cal			
 Serial Number: Tool Model: Performed:	01 GROH Tue Jun 05 09	ð:24:47 2007		
Calibrator Value:	120	GAPI		
Background Reading: Calibrator Reading:	4 .568 123.266	cps cps		
Sensitivity:	1.01097	GAPI/cps		



XCAL 0.50 ft YCAL 0.50 ft			
	Dataset: Total Lengt Total Weig ⊘.D.	run1/pass2 h: 9.35 ft ht: 150 00 lb 3.50 in	

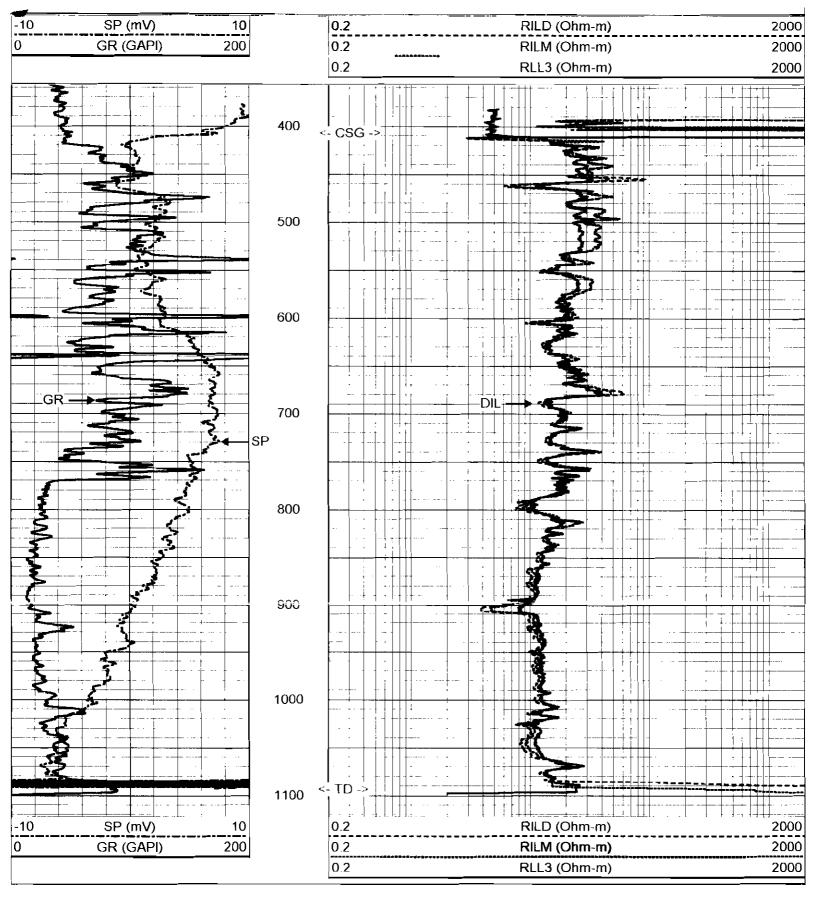
Invoice No. 200	String			Casing Record S			ONE 11.875"	iber Bit	Borehole Rec	Witnessed By	Recorded By		Equipment Number	Time Logger on Bottom	Time Well Ready	Estimated Cement Top	Max Recorded Temp				Top I og Interval			Denth Driller	Pun Number	Date	We Fie Co Sta	ell eld un	ty	E	TV ehi ee	V-1 gh		onsu			Inc. Well		Company		Geophysica					
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			12" ID	Wat/Ft			1110	To Size	 	J.McGrath (LSS) D.R		Ft. Myers	MVGS-1	11 30 6/5/2007	10:00 6/5/2007	NA	see FCT loor			400 00+	760I	1094	1110			5-JUN-2007		0 L	GL		at Mirror I ake	FGUA WTP Site 2		_ee	cany uniner		ETW-1		Connect Consulting Inc.							
5X			SURFACE	Top			 - 	Weight F	Ning Reco	D.Robertson (CCI)																-			Elevation ~31'					State/Prv Florida					ting Inc.			- O -	LL3 / SP		DI LAI INDUCTION	
* FINAL PRINT *		408' Logger	415'	Bottom				From																			G.L. ~31'	DF	K D	Elevation	DHTV	FLOW, FCT		orida											S	
	interp	ll int preta	erp atic	vreta an, a	atio and	ns a we	sha	ıll n	ot,	exc	cep	t in	the	e ca	se (of g	ross	s or	' Wil	ful	neg	glig	en	ce d	on	out	par	t, b	e lia	ble o	r re	spor	nsible	o not gu for any	loss	, cc	osts, i	dar	mages	s, or	expe	ense	s ind	curre	ed o	
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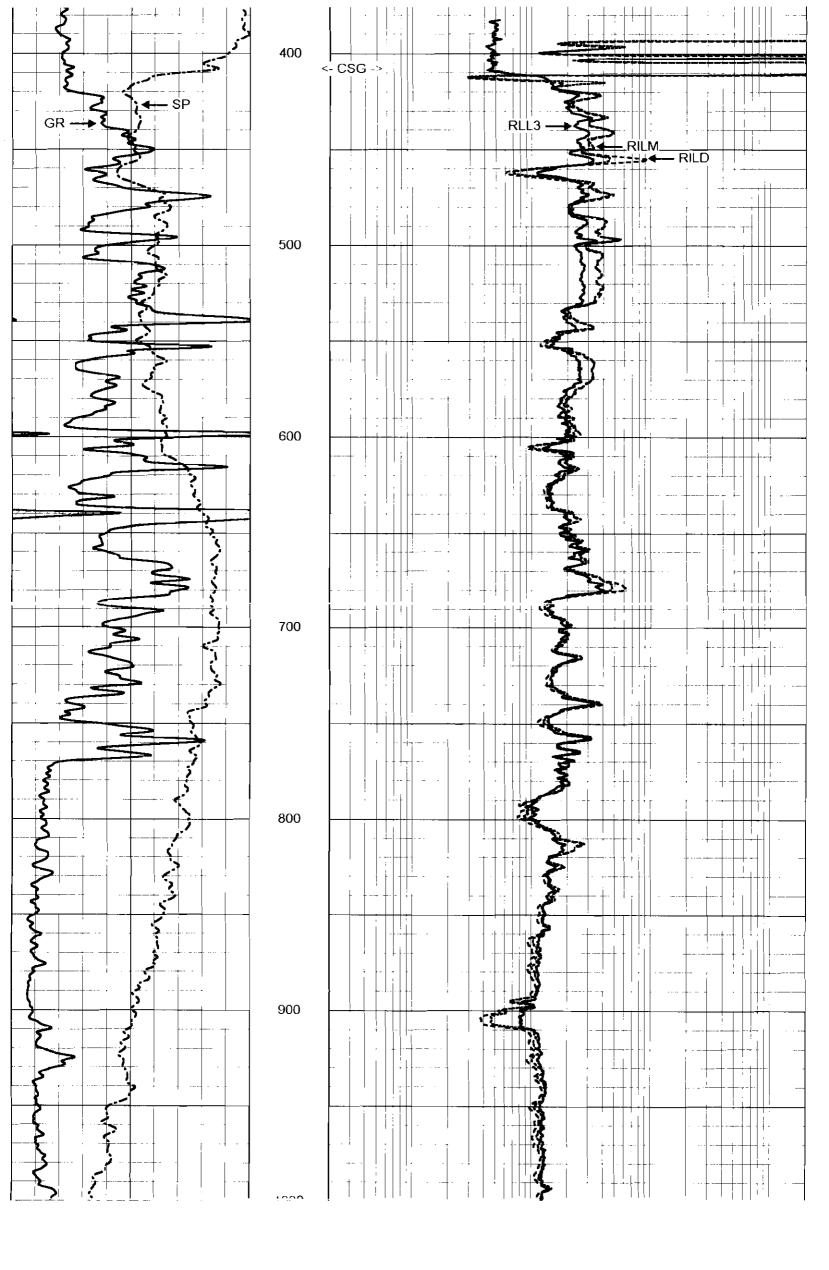
MAIN PASS

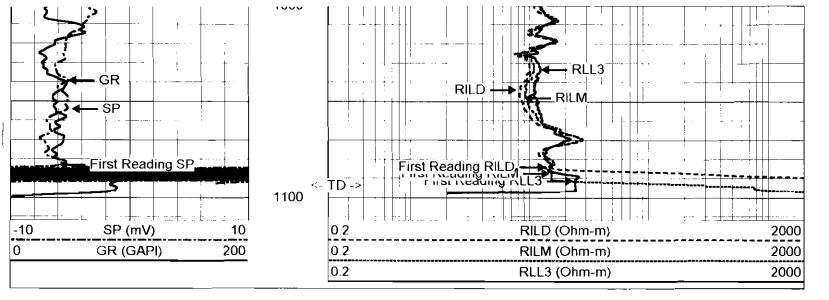
Database File: Dataset Pathname: Presentation Format: Dataset Creation: Charted by:

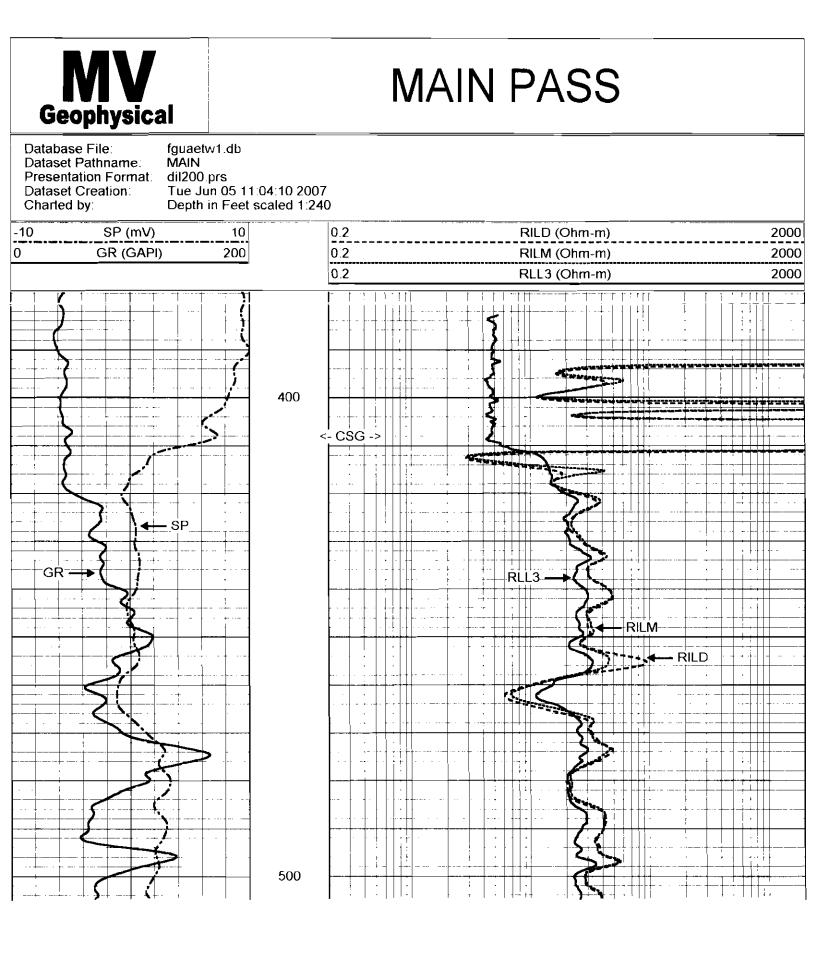
fguaetw1.db MAIN dil1200.prs Tue Jun 05 11:04:10 2007 Depth in Feet scaled 1:1200

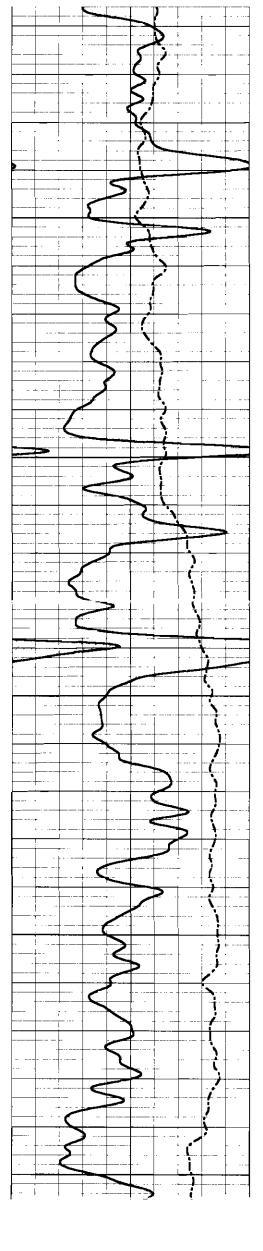


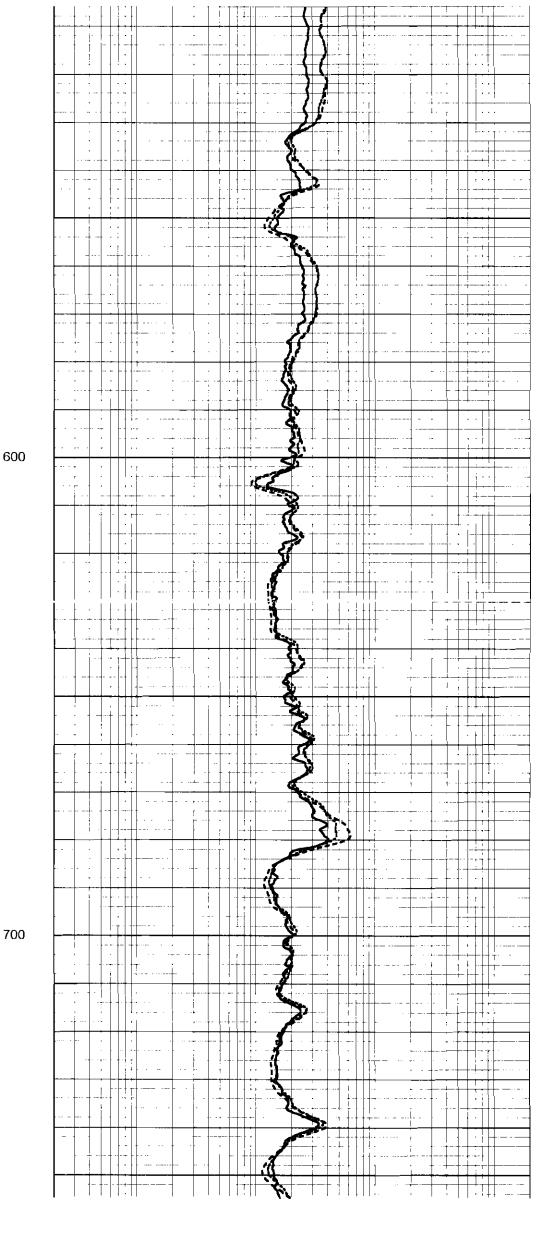
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Datas Prese	ntation Format: et Creation:	fguaetw1.db MAIN dil200.prs Tue Jun 0 5 11:04: Depth in Feet scal			
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0	GR (GAPI)	200	0 2	RILM (Ohm-m)	2000
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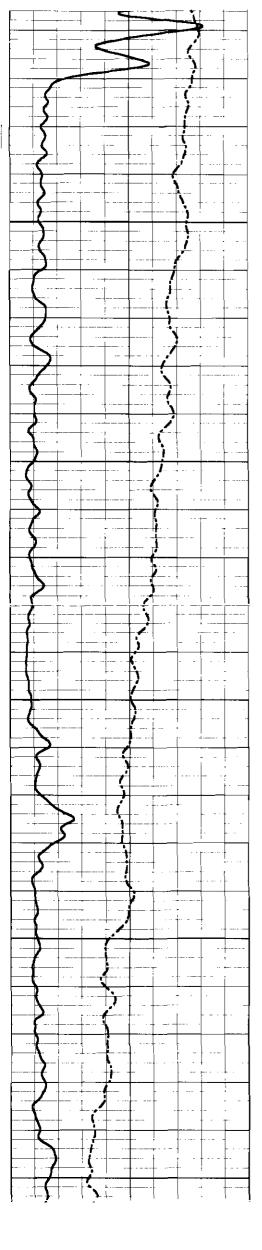




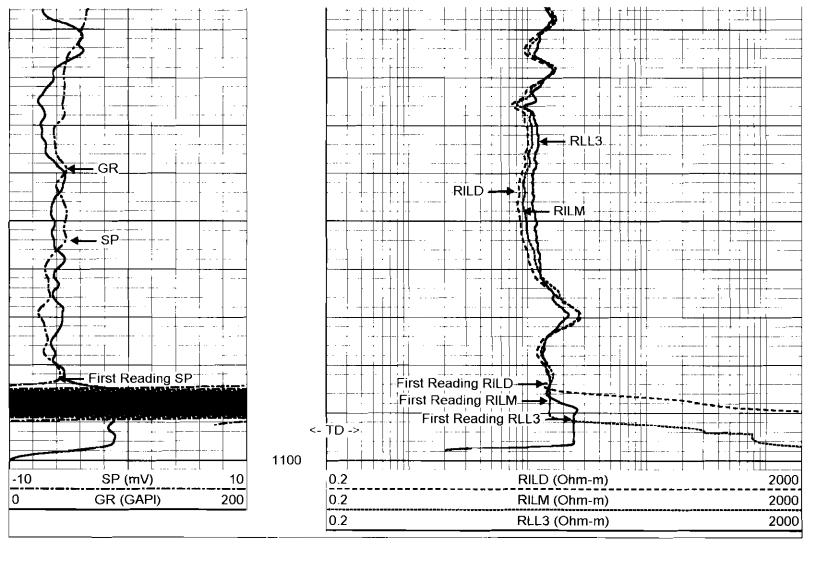








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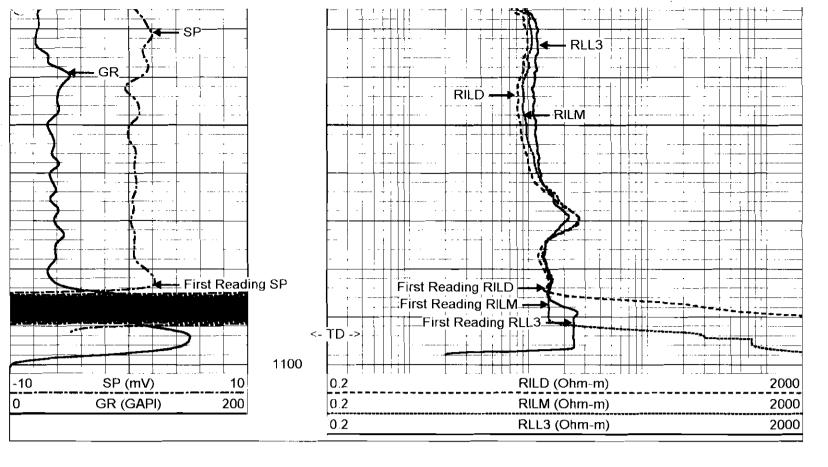




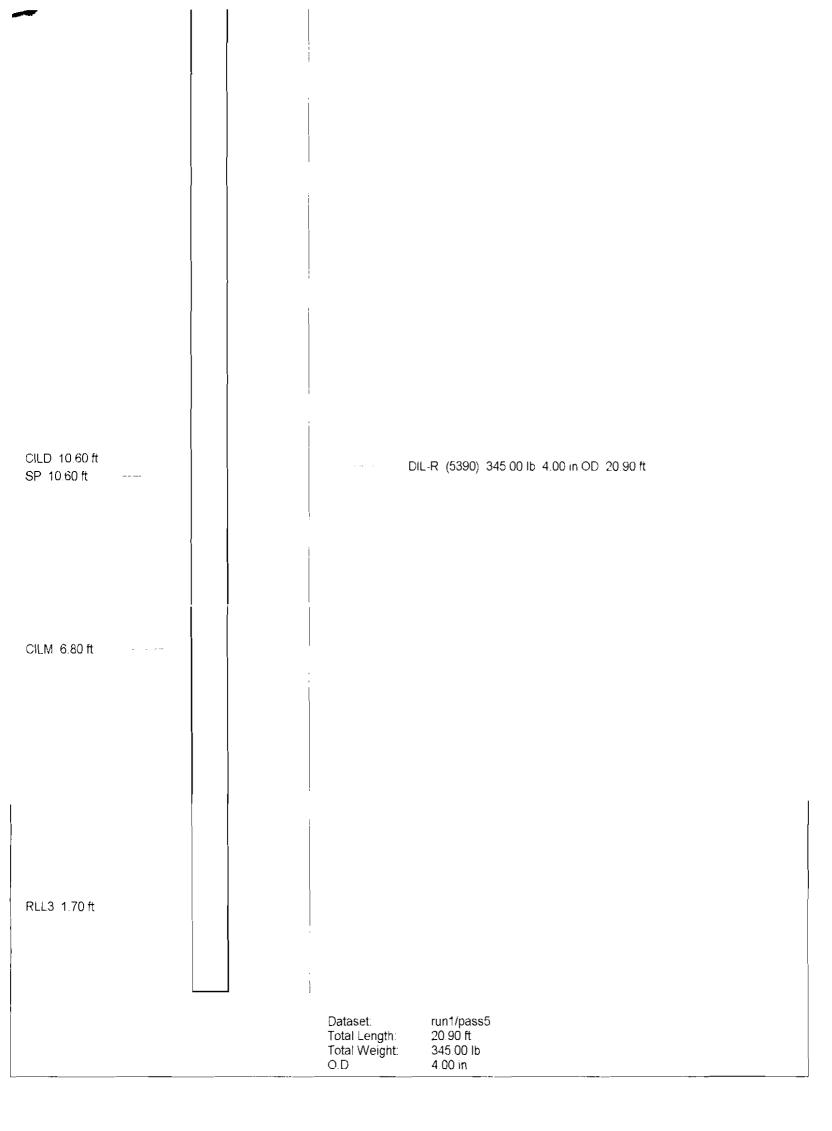
### **REPEAT SECTION**

Database File: Dataset Pathname: Presentation Format: Dataset Creation: Charted by: fguaetw1.db repeat dil200.prs Tue Jun 05 10:05:56 2007 Depth in Feet scaled 1:240

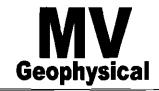
-10	SP (mV)	10		0.2	RILD (Ohm-m)	2000
0	GR (GAPI)	200		0.2	RILM (Ohm-m)	2000
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			Dual Inductio	n Calibration	Report			
· · · ·	Downho	Cal Perform ble Cal Perfo		Su W		:49:43 2005 2:32:57 2005 2:58:55 2005		
Surface Calibra	ation					-		
		Readings		F	References		Resul	ts
Loop	Air	Loop		Air	Loop		m	ь
Deep Medium	0.050 0.001	0.646 0.732	V V	0.000 0.000	400 000 464 000	mmho-m mmho-m	671.771 634.710	-33.646 -0.492
Internal:	Zero	Cal		Zero	Cal		m	b
Deep Medium	0.011 -0.009	0.641 0.738	V V	0.000 0.000	400.000 464.000	mmho-m mmho-m	634,996 620,900	-7.104 5.734
Downhole Calil	bration							
		Readings		F	References		Resul	lts
Internal:	Zero	Cal		Zero	Cal		m	b
Deep Medium Shallow	-26.659 -7.097 2.509	398.163 468.715 0.019	mmho-m mmho-m V	-26.130 -6.353 494.500	397.036 467.967 2.000	mmho-m mmho-m Ohm-m	0.996 0.997 197.790	0.425 0.722 -1.721
After Survey Ve	erification							
		Readings			Targets		Resul	ts
Internal:	Zero	Cal		Zero	Cal		m'	b'
Deep Medium Shallow	-27.012 -7.085 494.011	397.367 467.858 1.606	mmho-m mmho-m Ohm-m	-26.659 -7.097 494.500	398.163 468.715 2.000	mmho-m mmho-m Ohm-m	0.996 0.997 1.000	0.425 0.722 0.393



Liner Invoice No. 2007150		Surface String 12"			ONE 11.875" 420	Run Number Bit From	Witnessed By	Recorded By	Location	Equipment Number	Time Logger on Bottom	Time Well Ready	Max. Recorded Temp.	Density / Viscosity	Type Fluid	Open Hole Size	Top Log Interval	Bottom I ogger Interval		Dooth Drillor	Date	Fie Co	'ell eld our	nty ∌/Pr	E L	T\ eh ee	N-'	Ac		" County	Itinę Field	ļ - -	Well		Company (		Geophysical		
5X		12" ID SURFACE		109/ Logger		To Size Weight From	J.McGrath (LSS) D.Robertson (CCI)	•	Ft. Myers	MVGS-1	12:30 6/5/2007	10:00 6/5/2007 :	see FC1 log	NA/NA	H20	11.875"	355	106A'		1110 ²	5-JUN-200/		GL	G.L. Elevation ~31'		at Mirror Lake	FGUA WTP Site 2			Lee State/Prv Florida	_enign Acres		ETW-1	C	Connect Consulting Inc.		LOG	FLUID CONDUCTIVITY	
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## DYNAMIC FCT DOWN

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fguaetw1.db DFCT fctfgua4.prs Tue Jun 05 13:06:46 2007 Depth in Feet scaled 1:240

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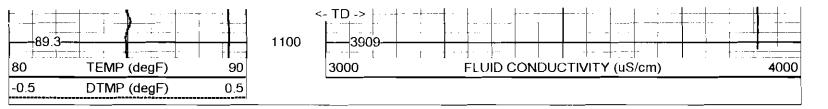
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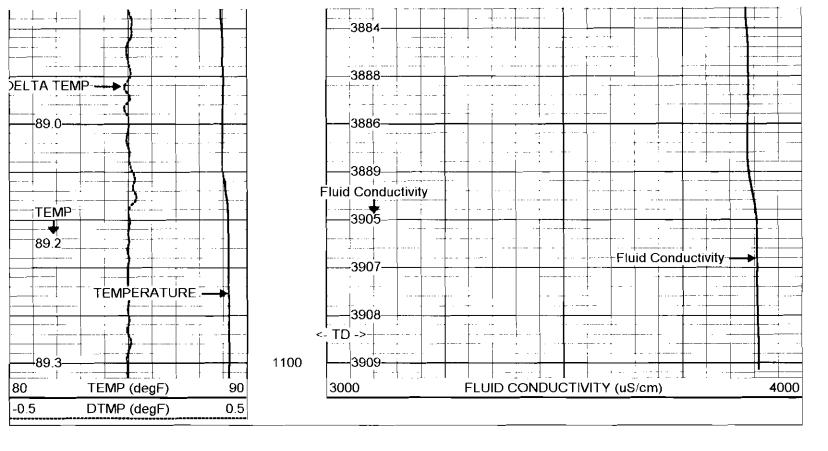


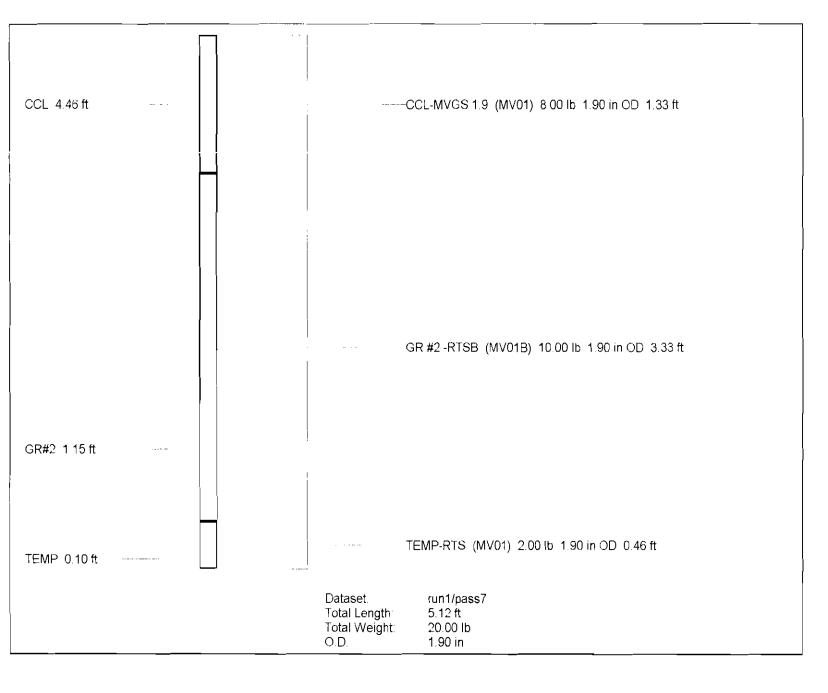
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Invoice No	Production String Liner	Surface String	Casing Record			ber		Witnessed By	Decorded By	Equipment Number	Time Logger on Bottom	Time Well Ready	Max. Recorded Lemp.	Density / Viscosity	Type Fluid	Open Hole Size	Top Log Interval	Bottom Logger		Depth Onder			Wel Field Cou Stat	l d nty	   	Conne ETW- _ehigl _ee Florid	-1 h A			Iting	Inc.			Geophysical			
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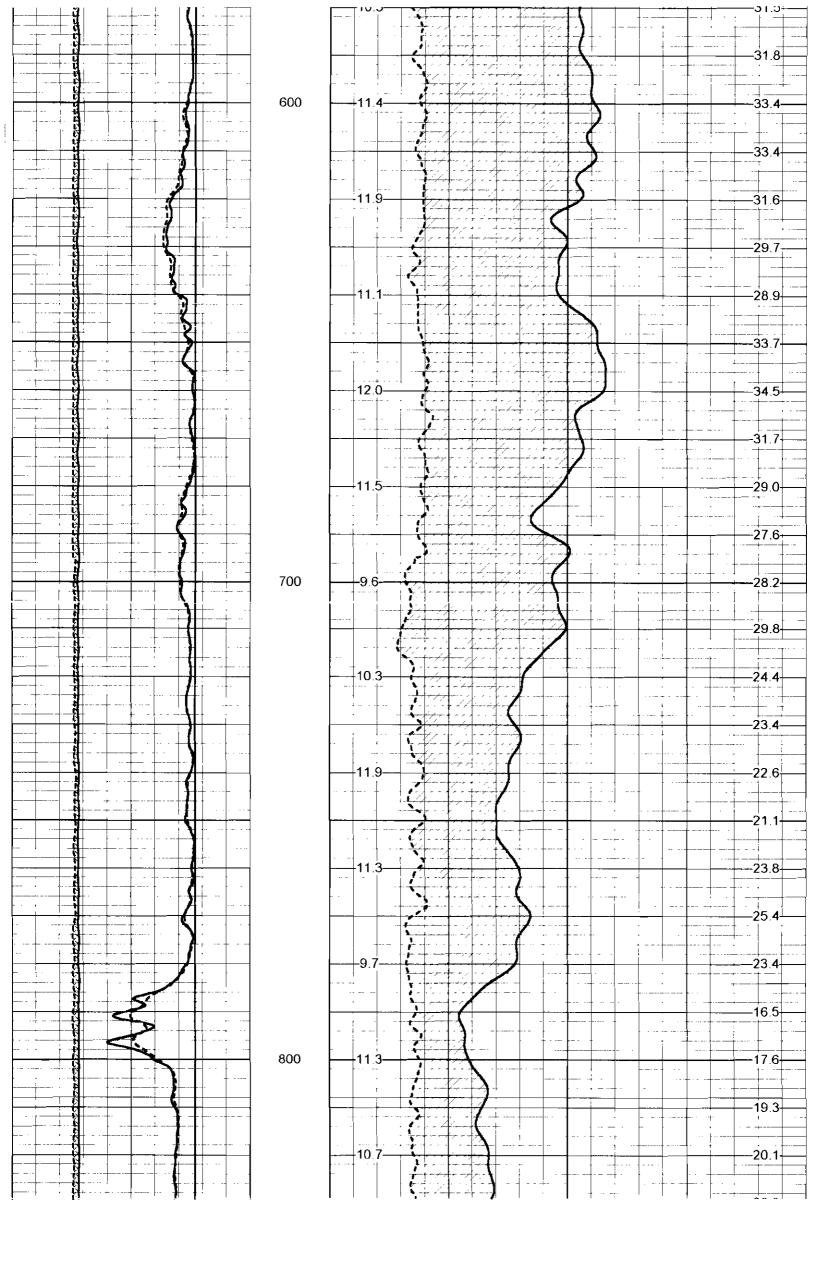


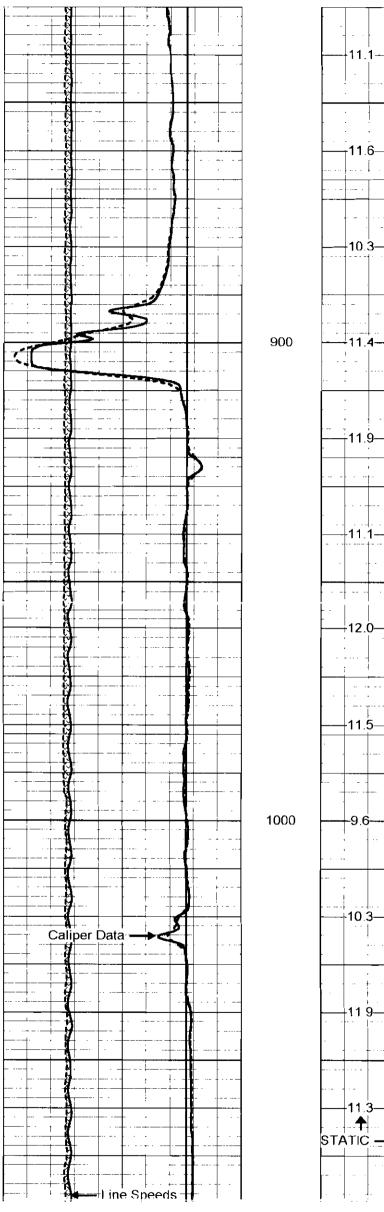
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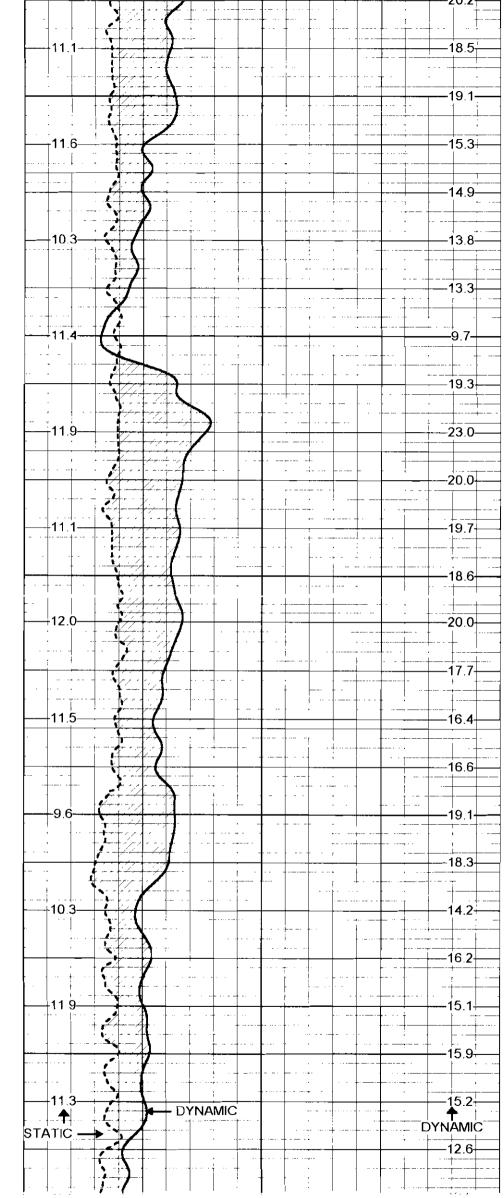
Database File: Dataset Pathname: Presentation Format: Dataset Creation: Charted by:

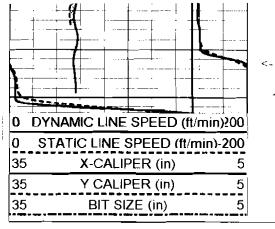
fguaetw1.db Sd50 qfgua4.prs Tue Jun 05 14:17:09 2007 Depth in Feet scaled 1:240

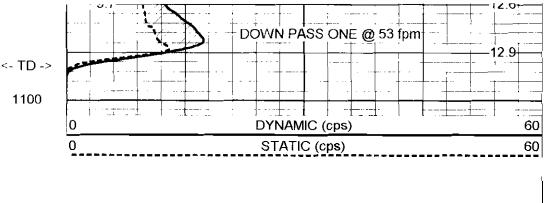
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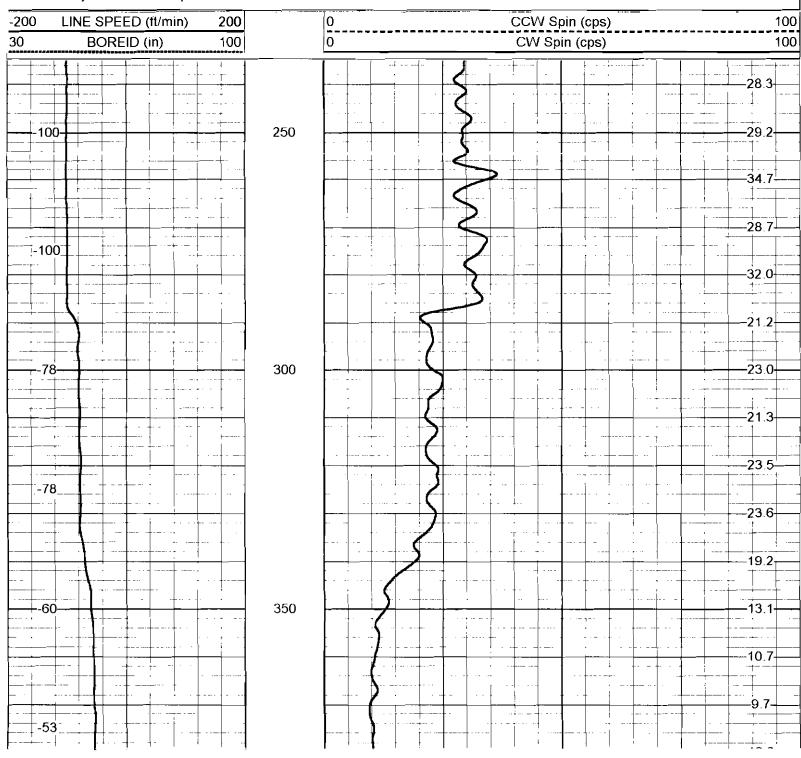


### **MV** Geophysical

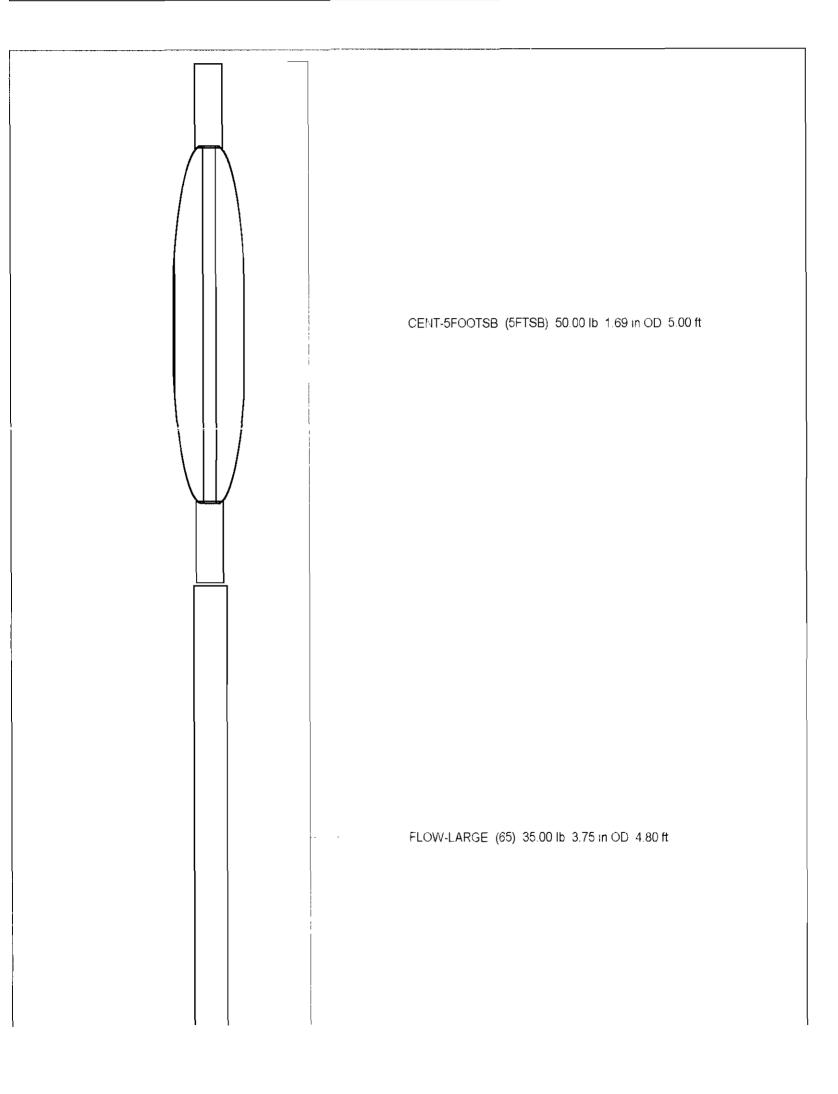
### Q Calibration Down

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fguaetw1.db pass9 flow.prs Tue Jun 05 13:26:30 2007 by Log VER_5.3 Depth in Feet scaled 1:240



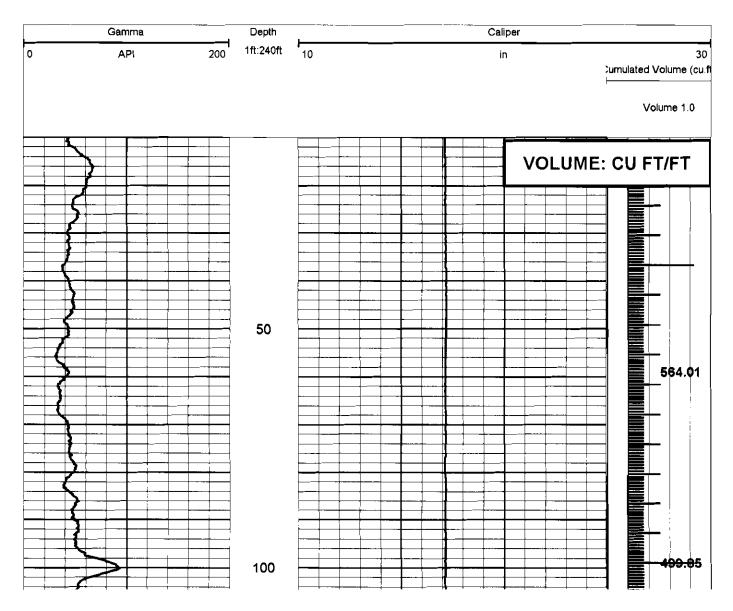
			10.2—
			+
-52	<b>40</b> 0		-9.6
-200 LINE SPEED (ft/min) 200		0 CCW Spin (cps)	100
30 BOREID (in) 100		0 CW Spin (cps)	100

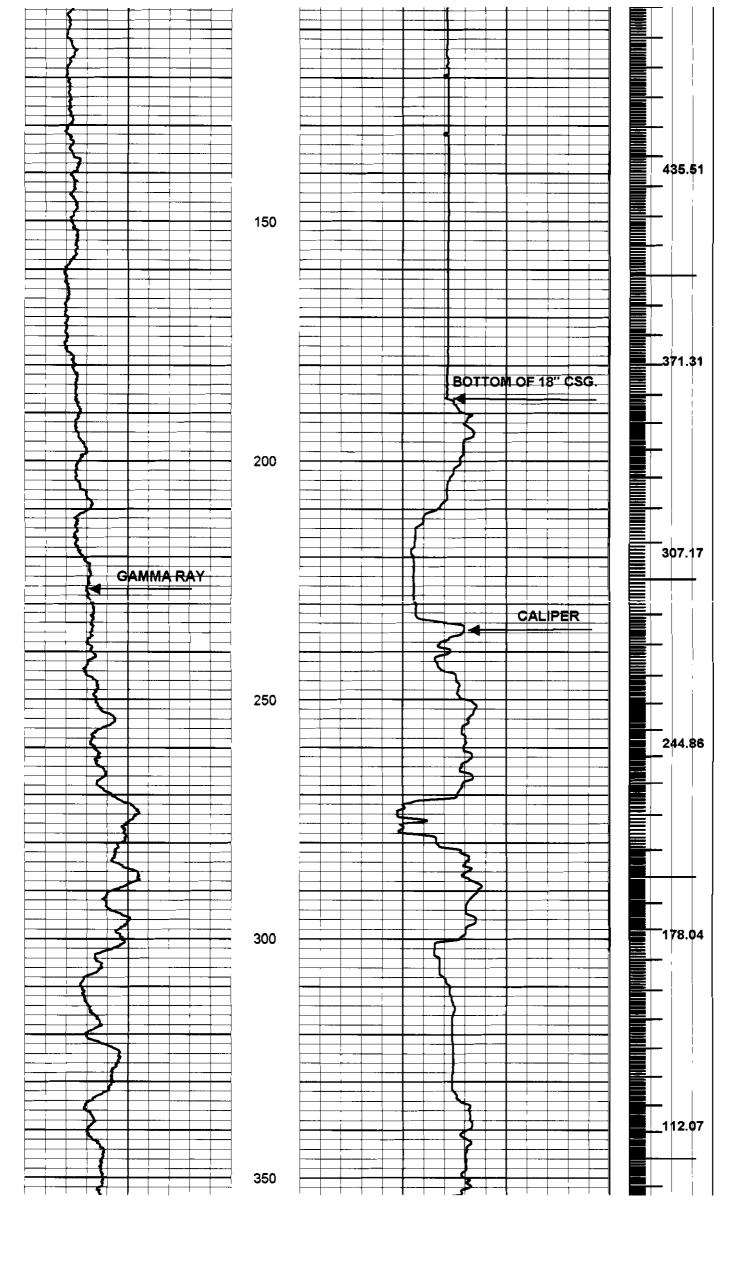


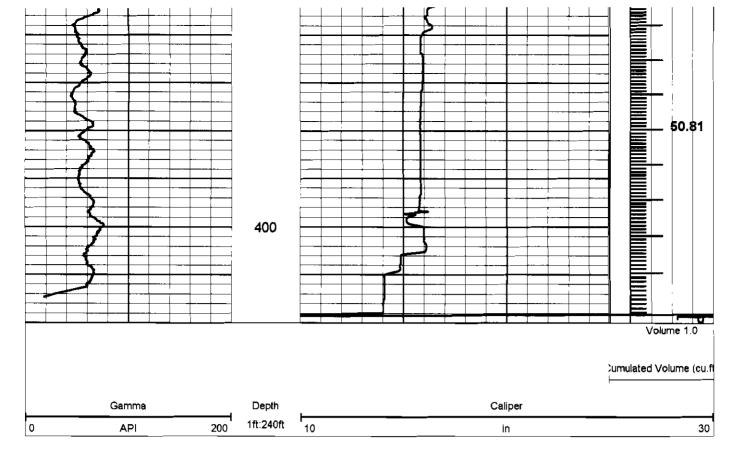
FLOWP 0.00 ft			
	Dataset Total Length: Total Weight O.D.	run1/pass9 9.80 ft 85.00 lb 3.75 in	

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				420		187		17"			3
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	-			DAVID ROBERTSONCCI	DAVID RO			WITNESSED BY	SSEI		R
					D. WILSON			BY	RECORDED BY	l Cg	RE
					1 HOUR	E	OPERATING RIG TIME	3 RIC	NEL	ERA	Ş
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					420'	VAL	BTM LOGGED INTERVAL		I G G	ME	BŢ
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		Y	SALINITY		ONE				ľ	RUN No	R
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OTHER SERVICES	отне				LOCATION						
FLORIDA		STATE		LEE	COUNTRY	0					
		WTP#2	GH ACRES	FGUA LEHIGH ACRES WTP#2	FIELD						
				ETW-1	WELL ID	V					
		G INC	ONSULTIN	CONNECT CONSULTING INC	COMPANY	0				ĺ	
				S	SYSTEM		6		V)		
GAMMA RAY/CALIPER	Y/C	IA RA	GAMA			DATA		N			
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## Appendix C Borehhole Television Survey



# Appendix D Lithologic Log



Litho	logic	Log

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			Water Resource C	Unsuitants			
Client Name	Malcołm Pirnie/FGUA	Date	April 11 – May 26, 2007	Page 1/2			
Project Name	Mirror Lakes Wellfield Expansion	Weather					
Project Locat	ion Lehigh Acres, Lee Co., Florida	Report By	David Robertson / James	McGrath			
Well / Boring	ID Exploratory Test Well ETW-1						
Drilling Contractor	Parsons Well Drilling						
Drilling Metho	Mud Rotary to ~600 ft. Reverse A	Air to TD at 1,1	10 ft.				
Depth (ft)	Description						
<u>0-5</u>	Sand, light gray (N7), medium to fine g	- grained, suban	gular to subrounded: mino	r shell			
5-25	Limestone, very pale orange (10YR 8/		<u> </u>				
25-35	Marl, yellowish gray (5Y 8/2), soft						
35-45	Clay, yellowish gray (5Y 7/2), modera	tely soft: mind	or sand, phosphate, and lim	estone			
45-58	Clay, grayish olive (10Y 4/2), stiff, soft						
58-70	Limestone, light greenish gray (5GY & shell, and clay stringers with depth	-	· · · · · · · · · · · · · · · · · · ·	and, phosphat			
70-75	Sandy Limestone, yellowish gray (5Y 7/2): minor shell and phosphate						
75-105	sand, phosphate	emi-consolidated Sandstone and Shell, yellowish gray (5Y 7/2): very fine grained subrounded and, phosphate					
105-110	Shelly Sand, light greenish gray (5GY 8/1), fine to coarse grained, subrounded: mine andstone, phosphate, and pebbles						
110-125	Clayey Sand, grayish green (10GY 5/ subangular to subrounded: phosphate	e	gray (5GY 6/1), medium to	coarse graine			
125-130	Sandy clay, greenish gray (5GY 6/1):	phosphate					
130-162	Clayey Sand, greenish gray (5GY 6/ phosphate, more clay from 140 to 153	9 ft					
162-186	Sandy Limestone, very pale orange ( 162-175 ft., then hard to 187 ft. (Base			lerately soft fro			
186-220	Sandy Clay, greenish gray (5GY 6/1), stiff						
220-230	imestone, light grey, very fine to fine quartz sand						
230-250	Sandy Clay, light olive grey, sandy, increasing phosphate content with depth						
250-270	Sandy Clay, light olive to light grey, trace phosphatic minerals						
270-310	Sandy Clay, light olive grey, significan	t quartz sand,	phosphates, shell and lime	stone fragment			
310-325	Limestone, very pale orange, coralline	e, sandy, slight	ly phosphatic, secondary m	ineralization			
325-370	Sandy Clay, olive grey, minor limestor	ne fragments,	phosphatic grains, quartz sa	and grains			
370-410	Limestone, light olive grey, sandy, cla	y content incre	asing with depth				
410-450	Clay, light grey, sandy, minor limestor	ne fragments, r	minor quartz sand, trace ph	osphates			
450-470	Limestone, light olive grey, sandy, cor	atoine auada e					

Litholog	jic l	_og		CC Connect Consulti	ng, Inc.		
				Water Resource Co	onsultants		
Client Name		Malcolm Pirnie/FGUA	Date	April 11 – May 26, 2007	Page 2/		
Project Name	\$	Mirror Lakes Welifield Expansion	Weather				
Project Locat	ion	Lehigh Acres, Lee Co., Florida	Report By	David Robertson / James N	IcGrath		
Well / Boring	ID	Exploratory Test Well ETW-1			-		
Drilling Contractor		Parsons Well Drilling					
Drilling Metho	bd	Mud Rotary to ~600 ft. Reverse Air	to TD at 1,1	10 ft			
Depth (ft)	Des						
470-480		/, grey, sandy, phosphatic, some lim	estone fragm	ents			
480-520	Limestone, light grey, sandy, phosphatic, vuggy, clay from 510-520						
520-550	Clay, light grey, phosphatic content ~20%, limestone content decreasing with depth, trace quar sand						
550-560							
560-570	Lim	Limestone, light grey, clayey, moderate phosphate content					
570-610	Clay	y, light grey, sandy, limestone conter	t increasing	with depth, phosphate conter	nt decreasin		
610-660	610	estone, olive grey, clayey, trace pho feet to trace at 640 feet	-				
660-680		estone/Dolostone, very pale orange sphati <u>c content with depth</u>	e, lime mud	, vuggy, abundant foraminif	era, increas		
680-700		ostone, light to dark grey, phosphate					
700-710		estone, very pale orange, large forar					
710-750	Dol	ostone, light grey, chalky, foraminifer	a, phosphati	c content ~5-10%			
750 - 790	sub	estone/Sandstone, medium grey, n angular, phosphates and shell fragm	ients present	<u> </u>	•		
790-810	pho	Limestone/Sandstone, light brown, friable, calcarenite, appears tight, but drills easily, trac phosphates					
810-820	Limestone, light brown, sandy, very fine to fine quartz sand, no phosphatic minerals noted						
820-910	Limestone, very pale orange, sandy, fine grain quartz sand, no phosphatic minerals noted						
910-924		Sand, very pale orange, very fine grain, subangular to subrounded, well sorted, contains variety of carbonate debris; lime mud noted from ~915-924 feet beneath sand					
924-940	Lim	estone, very pale orange, calcarenite	e, trace quar	z sand, shell fragments			
940-1020	Lim	estone, very pale orange to light gre	y, calcarenite	e, pelletoid inclusions, slightly	dolomitic		
1020-1060	Lim	estone, very pale orange, slightly ch	alky, lime mu	id, no foraminifera, secondar	y mineraliza		
1060-1080	Lim	estone, very pale orange, calcarenit	e				
1080-1090	Lim	estone, very pale orange, calcareni	te trending to	alcilutite			
1090-1110	Lim	estone, very pale orange, lime mud,	abundant sh	ell fragments, calcilutite. fora	minifera.		

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#### ľ USBIOSYSTEMS

ANALYTICAL RESULTS Fr. mteds U8 (1, 17, 1715 pm

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DAVID ROBERTSON CONNECT COMPLETING INC 24 NM 12 STREET TELEM NON, F. LARCE

Photect Not 005932. CONFOL CORRUTING, INC. Job Name - F GUA LEHIGH AGRES WTP # 2 TEST F LORIDAN WELL LI doL

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1232192-1 ETW-1

All analyses were performed using EPA, ASTM, NIOSH, USSS, on Standard Methods and curtified to meet NELAC requirements. Flags: NE on U-below MDL: LU-meets internal lab limits;ML-matrix interference; NA-hot applicable. Flags: DER-PD/Ly IU-F; NEL-GO free libuids; DPA = org WC; ASTS = Wet WC; C(#) See alteched USB code FLDEP Flags: J(#)-estimated liburg, fail 2.no known QC reg. 3:00 fail SR or SRPD: Almatrix int, 5: Tproper fld. protocol; L-exceeds calibration; Q-holding time exceeded, FLDEP Flags: TivalucoMDL; Z present in blank; A-mprober preservation; B colonics exceed range;L estimated value;between the MDL and DCL. and Pul:

Lab CEPT 1F IF #1 109-1091 FE 00B/0E/UF EB5240; NF 444; SC 96031001; DE/NET42, XXXXX; AA-00395; KS/NE, 67 F-30-451; DE 02365; KA-937;84 H014; F0 33 0.056;

Tab IDs: ADEB 40870; USDA Soil Permit# S 20240, the above results relate only to the samples

US Biosystems 373. Na 7th America Boca Hatori, 41 33431 (888)862-6227

Page 1 of 3

Ser 1al: Number : 652161

Respectfully succentee.

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Shornee Eaker Project Network

ANALYTICAL RESULTS Printed: 08/07/07 12:51pm

Inv. No: 191350

Project No: 003332, CONECT CONSULTING, IN: Job Name: FGUA LENIGH ACRES WTP # 2 TEST FLORIDAN WELL Job Id.

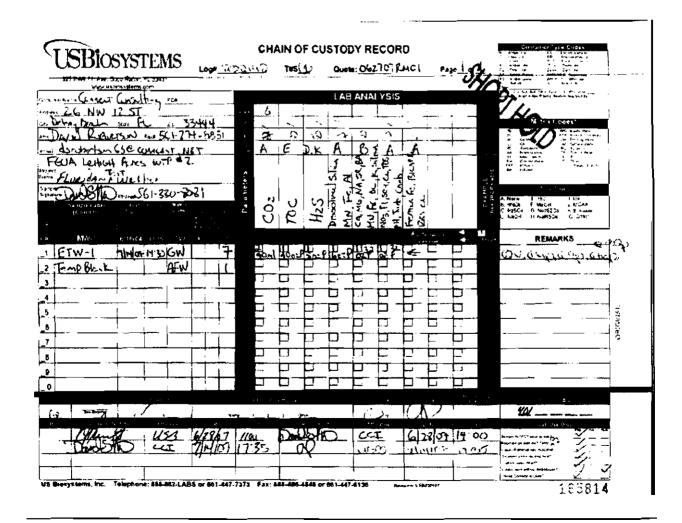
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CALCIUN	3010/60108 148	ng/1	1	0.080	D.10	07/16 00:00	07/18-03:49	a,
IRON	3010/50108-0.184	I ng/1	1	0.075	D. 20	07/15 00:00	07/18-03:49	<b>J</b> 2
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MUGNESIUN	3010760108 143	mg/ E	1	0.036	0.080	07/16 00:00	07/18 03-49	<b>J</b> 5
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SODJUN	3010760108 581	mg/1	i	0.054	0. <i>7</i> 5	07/15-00:00	07/18/03:49	J.
SUICA	3010/60108 18.6	nt⊫j/1	1	0.16	0.64	07/16 00:00	07/18 03:49	<b>J</b> 2
STEECA DISSO, VED	3010/60108 16.1	mg/1	1	0.074	0.64	07/16 00:00	C7/18 03:54	<b>J</b> L
STRONTIUM	3010750108-17.2	mg/ 1	1	0.0036	0.015	07/36-00:00	07/18/03:49	Ji
Dissolved Gases CARECH DIOXIDE (VAPORTECH)	₩1.01 4.1	mg71	1	0.40	0,40	N/A	¢7/23-12:00	5J8
ton Chromatography FLUCRIDE	.XIII.0 D 464	ոց/ի	i	0.630	0.20	N/A	07/14 23:27	SM
NETRATE (AS N)	300.0 U	mg/1	1	0.0026	0.050	N/A	07/14 23:27	SH
SURFATE	300.0 436.	V mg/1	50	C. 12	25	N/A	07721 19:35	5 <del>N</del>
Bicarbonate Alkalinity BICARBONATE ALKALINITY	SN45000020 148	mg/1	1	2.0	2.0	N/A	07/19-08:30	54
Carbonate Alkalinity CARBONATE ALKALINITY	SM15000020_U	neg./ 1	1	2.0	20	N/A	07/19-08:30	54
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Page 2 of 3

Serial Number: 652161

#### ANALYTICAL RESULTS

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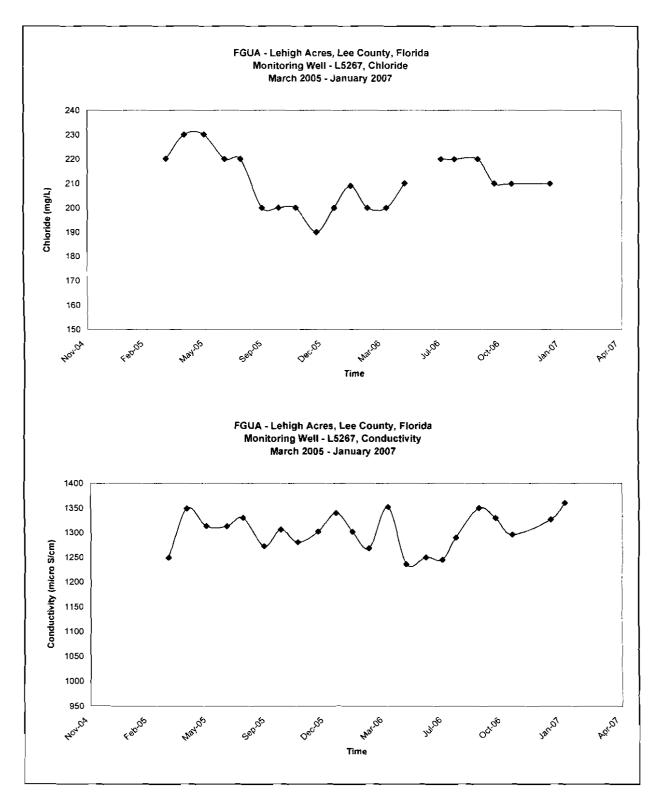
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		ACRES WTP # 2 Sample Number 1 mplif Description 4 Deletamentering C Receive Date C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C Sampled by C	ACRES WTP # 2 Sample Namber 1233771 1 mple Description Har1 Detertomertem 07/14/07 07 Receive Date 027/07 Sampled by Customer Sam Hernod Result 25.: 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date 0.0177 Receive Date	ACRES WTP # 2 Sample Namber 1233771 1 mple Description 11a-1 Dectrom-trep 07/14/07 07.37m w4 : Receive Date 04/27/07 Sampled by Customer Sampled Method Result 365.: 0.0177 mg/1 DC-1CC-CHAIN OF CLUSTOD Logn 2005132 TPEL Ouote LAB 200779 Case 1 Case 1	ACRES WTF # 2 Sample Namber 1233771 1 mple Description 11=1 Part Tamp/Temp 07/14/07 07.35m w4 ( Recut Tamp/Temp 07/14/07 07.35m w4 ( Recut Tamp/Temp 07/14/07 07.35m w4 ( Recut Tamp/Temp 07/14/07 07.35m w4 ( Recut Tamp/Temp 07/14/07 07.35m w4 ( Recut Tamp/Temp 07/14/07 07.35m w4 ( Recut Tamp/Temp 07/14/07 07.35m w4 ( Recut Tamp/Temp 07/14/07 07.35m w4 ( Recut Tamp/Temp 07/14/07 07.35m w4 ( Recut Tamp/Temp 07/14/07 07.35m w4 ( Recut Tamp/Temp 07/14/07 07.35m w4 ( Recut Tamp/Temp 07/14/07 07.35m w4 ( Recut Tamp/Temp 07/14/07 07.35m w4 ( Recut Tamp/Temp 07/14/07 07.35m w4 ( Recut Tamp/Temp 07/14/07 07.35m w4 ( Recut Tamp/Temp 07/14/07 07.35m w4 ( Recut Tamp/Temp 07/14/07 07.35m w4 ( Recut Tamp/Temp 07/14/07 07.35m w4 ( Recut Tamp/Temp 07/14/07 07.35m w4 ( Recut Tamp/Temp 07/14/07 07.35m w4 ( Recut Tamp/Temp 07/14/07 07.35m w4 ( Recut Tamp/Temp 07/14/07 07.35m w4 ( Recut Tamp/Temp 07/14/07 07.35m w4 ( Recut Tamp/Temp 07/14/07 07.35m w4 ( Recut Tamp/Temp 07/14/07 07.35m w4 ( Recut Tamp/Temp 07/14/07 07.35m w4 ( Recut Tamp/Temp 07/14/07 07.35m w4 ( Recut Tamp/Temp 07/14/07 07.35m w4 ( Recut Tamp/Temp 07/14/07 07.35m w4 ( Recut Tamp/Temp 07/14/07 07.35m w4 ( Recut Tamp/Temp 07/14/07 07.35m w4 ( Recut Tamp/Temp 07/14/07 07.35m w4 ( Recut Tamp/Temp 07/14/07 07.35m w4 ( Recut Tamp/Temp 07/14/07 07.35m w4 ( Recut Tamp/Temp 07/14/07 07.35m w4 ( Recut Tamp/Temp 07/14/07 07.35m w4 ( Recut Tamp/Temp 07/14/07 07.35m w4 ( Recut Tamp/Temp 07/14/07 07.35m w4 ( Recut Tamp/Temp 07/14/07 07.35m w4 ( Recut Tamp/Temp 07/14/07 07.35m w4 ( Recut Tamp/Temp 07/14/07 07.35m w4 ( Recut Tamp/Temp 07/14/07 07.35m w4 ( Recut Tamp/Temp 07/14/07 07.35m w4 ( Recut Tamp/Temp 07/14/07 07.35m w4 ( Recut Tamp/Temp 07/14/07 07.35m w4 ( Recut Tamp/Temp 07/14/07 07.35m w4 ( Recut Tamp/Temp 07/14/07 07.35m w4 ( Recut Tamp/Temp 07/14/07 07.35m w4 ( Recut Tamp/Temp 07/14/07 07.35m w4 ( Recut Tamp/Temp 07/14/07 07.35m w4 ( Recut Tamp/Temp 07/14/07 07.35m w4 ( Recut Tamp/Temp 07/14/07 07.35m w4 ( Recut Tamp/Temp 07/14/07 07.35m w4 ( Recut Tamp/Temp 07/14/07 0	AGRES WTP # 2         Sample: Namber       1233771 1         mple: Description       11+1/07       07.37m         Beter/Time/Temp       07/14/07       07.37m         Receive Date       06/27707         Sampled by       Customer Sampled         WH: Mod       Recult       DIL         WH: Mod       Recult       DIL         WE: Mod       Recult       DIL         WE: Mod       Recult       DIL         WE: Mod       Recult       DIL         WE: Mod       Recult       DIL         WE: Mod       Recult       DIL         WE: Mod       Recult       DIL         WE: Mod       Recult       DIL         WE: Mod       Recult       DIL         WE: Mod       Recult       DIL         WE: Mod       Recult       Dit         WE: Mod       Recult       Dit	ACRES WTP # 2         Sample Number 12337/11         Tote /Thm /Temp 07/16/07 07.37m M. (;         Receive Date         Odd /// // Paper         Sample Date         Metrod         Receive Date         Metrod         Receive Date         Metrod         Receive Date         Metrod         Receive Date         Metrod         Recult         DIL         DIL         DIL         Recult         DIL         DIL <td>ACRES WTP # 2         Sample Name       1233771 1         Pole Discription       11a-1         Determining       07/18/07 07.37pn %4.5         Receive Dite       08/07/07         Sampled by Customer Sampled       Prep         Workod       Result       DIL         Workod       Result       Dit         Dit       Dit       Dit         Workod       Result       Dit         Dit       Dit       Dit         Workod       Result       Dit         Dit       Dit       Dit</td>	ACRES WTP # 2         Sample Name       1233771 1         Pole Discription       11a-1         Determining       07/18/07 07.37pn %4.5         Receive Dite       08/07/07         Sampled by Customer Sampled       Prep         Workod       Result       DIL         Workod       Result       Dit         Dit       Dit       Dit         Workod       Result       Dit         Dit       Dit       Dit         Workod       Result       Dit         Dit       Dit       Dit

## **RFI - Response**

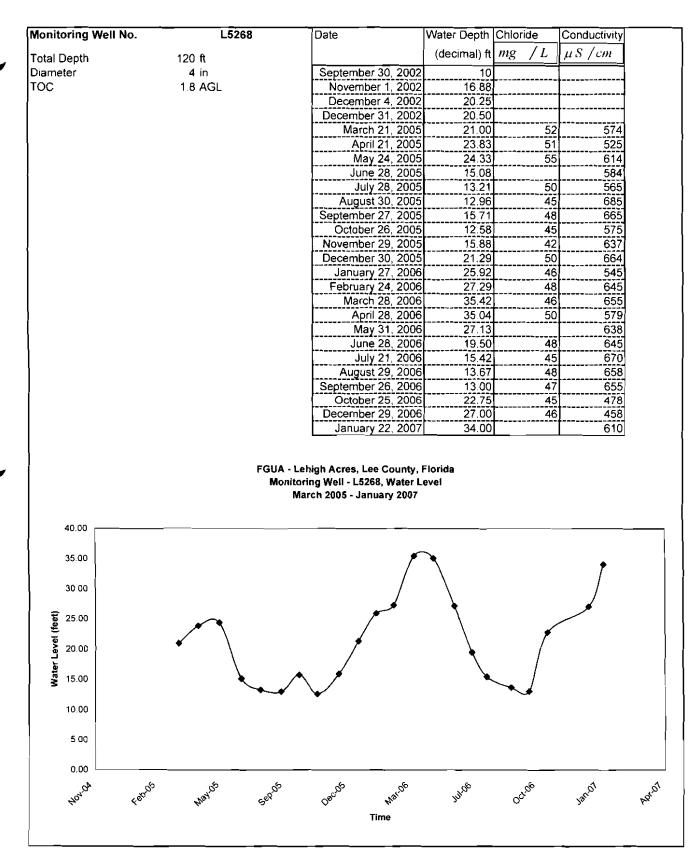


	L5267	Date	Water Depth	Chloride	Conductivity
otal Depth	222 ft		(decimal) ft	mg /L	µS/cm
iameter	4 in	November 2, 2002	15.75		
OC OC	0.6 AGL	December 4, 2002	19.83	**************	
		December 31, 2002	20.00		
		March 21, 2005	20.17	220	1249
		April 21, 2005	22.50	230	1349
		May 24, 2005	22.50		
		June 28, 2005	15.25	230	1313
		July 25, 2005	12.25	220	1330
		August 30, 2005	11.88		
		September 27, 2005	14.54	200	1306
		October 26, 2005	14.31	200	
		November 30, 2005			
		December 30, 2005	21.00		
		January 27, 2006		209	1302
		February 24, 2006			
		March 28, 2006	34.17	200	
		April 28, 2006	34.21	210	1236
		May 31, 2006			1250
		June 28, 2006		220	
		July 21, 2006	14.42	220	
		August 29, 2006			
		September 26, 2006	11.83		
		October 25, 2006			
		December 29, 2006 January 22, 2007 FGUA - Lehigh Acres, Lee Cour	33.00		1327 1360
	I	January 22, 2007	33.00		
40.00		January 22, 2007 FGUA - Lehigh Acres, Lee Cour Monitoring Well - L5267, Wat	33.00		
40.00 35.00		January 22, 2007 FGUA - Lehigh Acres, Lee Cour Monitoring Well - L5267, Wat	33.00		
		January 22, 2007 FGUA - Lehigh Acres, Lee Cour Monitoring Well - L5267, Wat	33.00		
35.00 30 00		January 22, 2007 FGUA - Lehigh Acres, Lee Cour Monitoring Well - L5267, Wat	33.00		
35.00 30 00		January 22, 2007 FGUA - Lehigh Acres, Lee Cour Monitoring Well - L5267, Wat	33.00		
35.00 30 00	• • •	January 22, 2007 FGUA - Lehigh Acres, Lee Cour Monitoring Well - L5267, Wat	33.00		
35.00		January 22, 2007 FGUA - Lehigh Acres, Lee Cour Monitoring Well - L5267, Wat	33.00		
35.00 30.00 25.00 20.00 15.00		January 22, 2007 FGUA - Lehigh Acres, Lee Cour Monitoring Well - L5267, Wat	33.00		
35.00 30.00 25.00 20.00 15.00 10.00		January 22, 2007 FGUA - Lehigh Acres, Lee Cour Monitoring Well - L5267, Wat	33.00 hty, Florida ter Level 007		



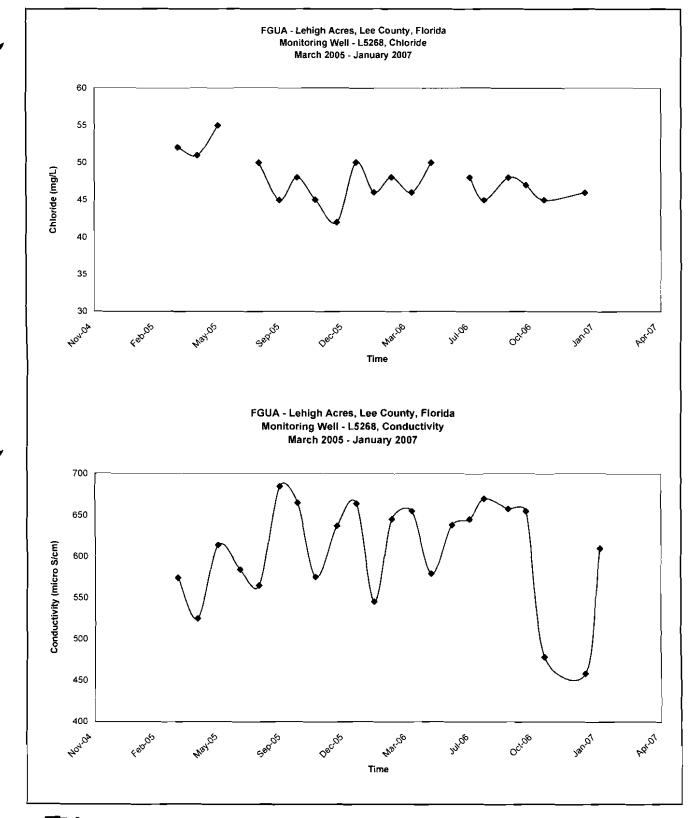






#### **RFI Response - Questions No. 3, 5**





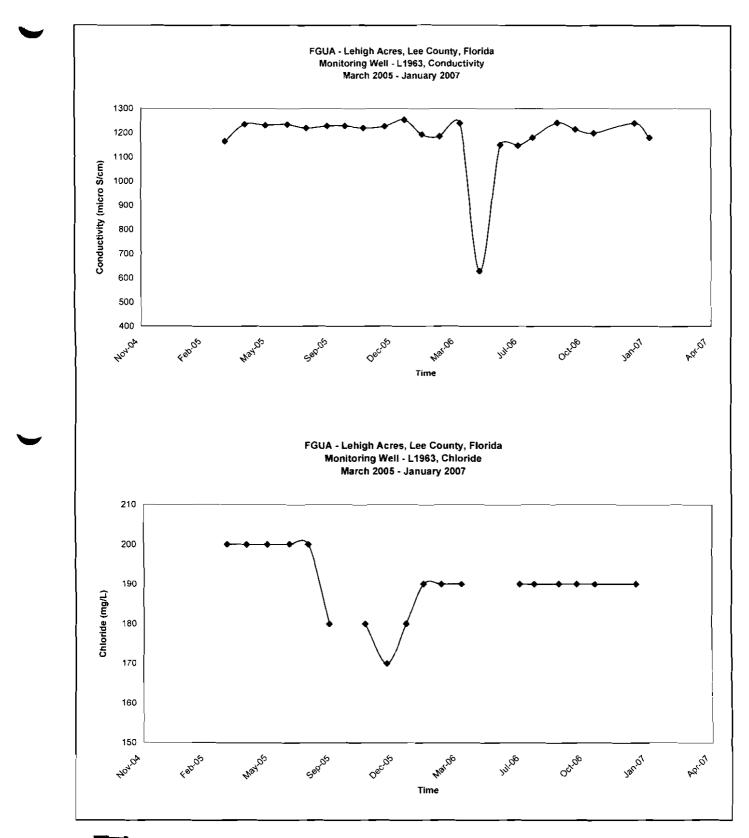
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RFI	Response	- Questio	ns No. 3, 5
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Monitoring Well No.	L1963	Date	Water Depth	Chloride	Conductivity
otal Depth	74 ft		(decimal) ft	mg /L	$\mu S/cm$
Diameter	8 in	September 30, 2002	12.25		]
TOC	2.41 AGL	November 1, 2002	0.00		
		December 4, 2002	19.17		<b> </b>
		December 31, 2002	18.67		
		March 21, 2005	19.67	200	1165
		April 21, 2005	22.33	200	
		May 24, 2005	22.67	200	
		June 28, 2005	14.98	200	
		July 28, 2005	13.00		
		August 30, 2005	13.79	180	1228
		September 27, 2005	13.17		1228
		October 26, 2005	14.96	180	1220
		November 29, 2005	16.21	170	1227
		December 30, 2005	24.08	180	1254
		January 27, 2006	24.83	190	
		February 24, 2006	26.94	190	
		March 28, 2006	29.29	190	1240
		April 28, 2006	28.17		628
		May 31, 2006	27.92		1150
		June 28, 2006	19.92	190	
	·	July 21, 2006	15.92	190	
		August 29, 2006	14.29	190	
		September 26, 2006	14.17	190	
		October 25, 2006	22.92	190	
		December 29, 2006		190	
		January 22, 2007			1180
35.00	FGUA Mor	- Lehigh Acres, Lee County, F nitoring Well - L1963, Water Le March 2005 - January 2007	vel		
30.00		<u> </u>	**		ţ
25.00		5-6-8			
(fag) 20.00		/	l l	/	
Water Level (feet) 00.02 12.00		and a			
				•••	
10.00					
5.00					
0.00					
4040A 68005	wayon sayon	Decos Nations	Jul 06	0 ^{c1,06}	Janot

Time

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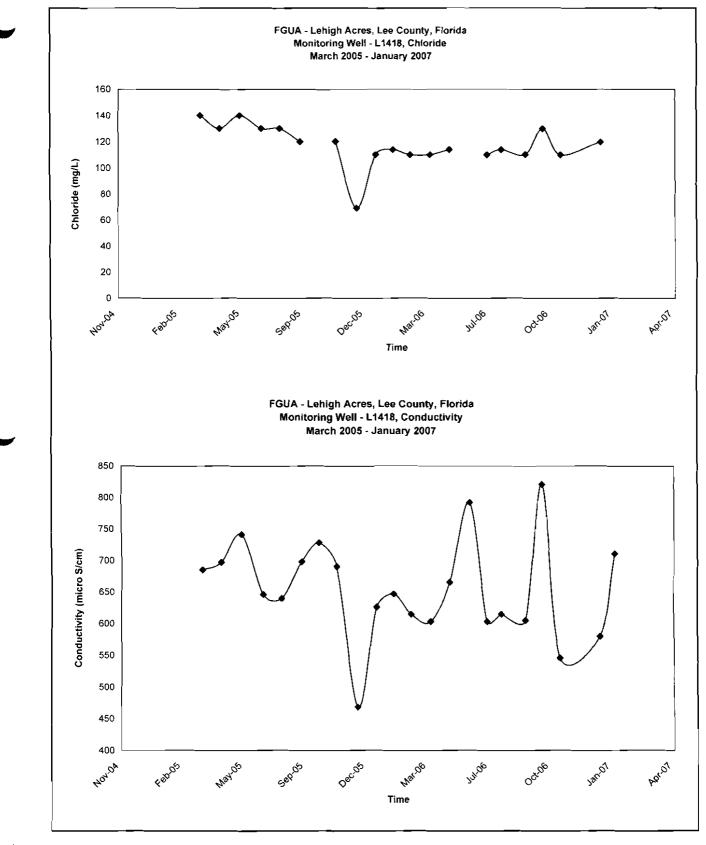
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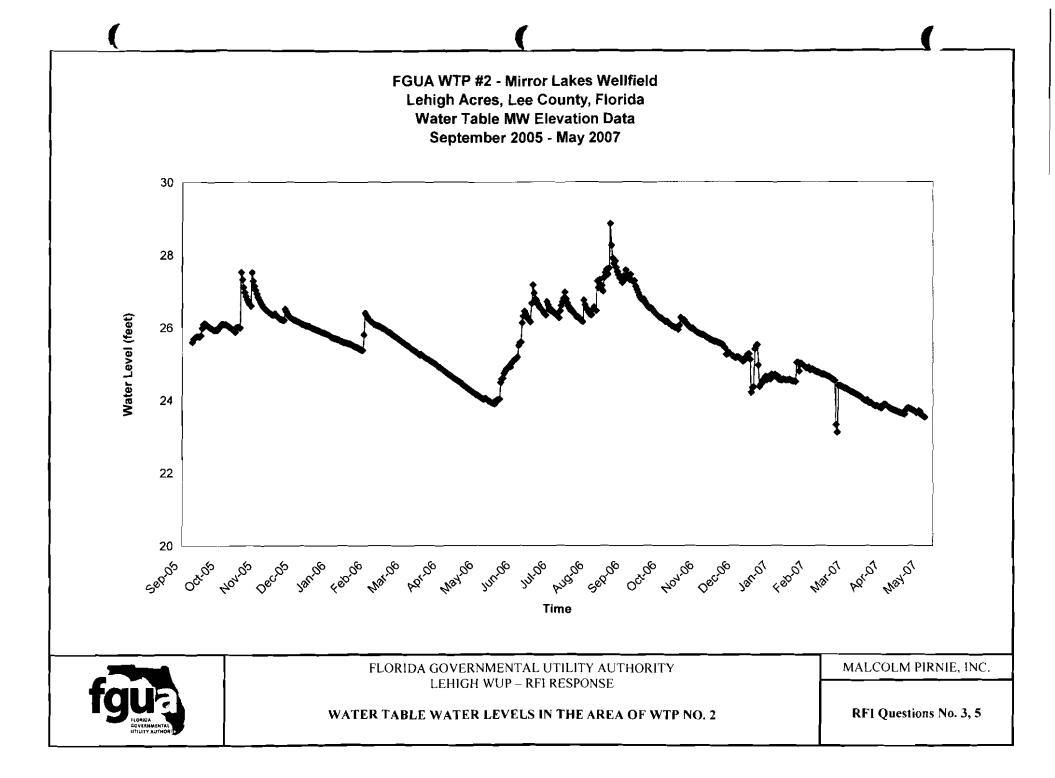
	No.	L1418	Date	Water Depth	Chloride	Conductivity
otal Deptl	62 ft			(decimal) ft	mg /L	$\mu S / cm$
Diameter	4 in		September 30, 200	2 9.71		
00	1.5 AGI	L	November 1, 200			
-		_	December 4, 200			
			December 31, 2002			
			March 21, 200		140	685
			April 21, 200		130	
			May 24, 200		140	+=====,
			June 28, 200			
			July 28, 200			**************************************
			August 30, 200			**********
			September 27, 200			728
			October 26, 200			
			November 29, 200		69	
			December 30, 200		110	
			January 27, 200			
			February 24, 200		**************	*********
			March 28, 200			***-***********
			April 28, 200		114	
			May 31, 200		f	792
			June 28, 200		110	
			July 21, 200			
			August 29, 200		110	***************
			September 26, 200		130	*****
			October 25, 200			
			December 29, 200			
			January 22, 200			710
25.00			FGUA - Lehigh Acres, Lee C Monitoring Well - L1418, March 2005 - Januar	Vater Level		
25.00			Monitoring Well - L1418, V	Vater Level		
20.00			Monitoring Well - L1418, V	Vater Level		
20.00			Monitoring Well - L1418, V	Vater Level		
20.00 Mater Level (feet) 15 00 10.00 5.00			Monitoring Well - L1418, V	Vater Level		
20.00 Mater Level (feet) 15 00 10.00	Fablo	Naros	Monitoring Well - L1418, March 2005 - Januar	Vater Level	000,000	Janot

### RFI Response - Questions No. 3, 5





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## Water Table Monitoring Well, WTP No. 2 site

In-Situ Inc.	MiniTroll Pro		
Report generated: Report from file: Win-Situ® Version	5/21/2007 \SN20649 2005-09-13 0903 4.57.0.0		13:41:42
Serial number: Firmware Version Unit name:	20649 3.09 miniTROLL		
Test name:			CUP-Shallow
Test defined on: Test scheduled for: Test started on: Test stopped on: Data gathered using Linear tes	9/13/2005 9/13/2005 9/13/2005 N/A	5	6:21:51 8:30:00 9:03:50 N/A
Time between data points: Number of data samples:	Seconds. 616	3	
TOTAL DATA SAMPLES	616	3	
Channel number [1] Measurement type: Channel name:	Temperature OnBoard Temp		
Channel number [2] Measurement type: Channel name: Sensor Range: Sensor Offset: Density: Latitude:	Pressure OnBoard Pressure 30 PSIG. 0.000 psi 45 degrees		1.000 g/cm3
Elevation: Mode:	0.000 meters (0.000 feet) TOC	casing elevation=32.49 ft.	
User-defined reference: Referenced on:	0 test start	25.595 ft. = 0 ft. elevation	Feet H2O
Pressure head at reference:	15.557	,	Feet H2O

Date	Time		ET (sec)	Chan[1] Temperatu Fahrenheit		Water Table Elevation
9/13/2005	9:03:50	9:03:50	0	81.77	0	25.595
9/14/2005	9:03:50	9:03:50	86400		-	25.675
9/15/2005	9:03:50	9:03:50	172800	81.03	-0.119	25.714
9/16/2005	9:03:50	9:03:50	259200	80.73	-0.14	25.735
9/17/2005	9:03:50	9:03:50	345600	80.48	-0.156	25.751
9/18/2005	9:03:50	9:03:50	432000	80.3	-0.153	25.748
9/19/2005	9:03:50	9:03:50	518400	80.19	-0.144	25.739
9/20/2005	9:03:50	9:03:50	604800	80.1	-0.176	25.771
9/21/2005	9:03:50	9:03:50	691200	80.44	-0.387	25.982
9/22/2005	9:03:50	9:03:50	777600	80.62	-0.494	26.089
9/23/2005	9:03:50	9:03:50	864000	80.53	-0.515	26.11
9/24/2005	9:03:50	9:03:50	950400	80.37	-0.496	26.091
9/25/2005	9:03:50	9:03:50	1036800	80.21	-0.46	26.055
9/26/2005	9:03:50	9:03:50	1123200	80.07	-0.432	26.027
9/27/2005	9:03:50	9:03:50	1209600	79.98	-0.414	26.009
9/28/2005	9:03:50	9:03:50	1296000	79.92	-0.386	25.981
9/29/2005	9:03:50	9:03:50	1382400	79.83	-0.367	25.962

Date	Time		ET (sec)	Chan[1] Temperatu Fahrenheit	Chan[2] Pressure Feet H2O	Water Table Elevation
11/30/2005	9:03:50	9:03:50	6739200	79.35	-0.912	26.507
12/1/2005	9:03:50	9:03:50	6825600	79.35	-0.841	26.436
12/2/2005	9:03:50	9:03:50	6912000		-0.775	26.37
12/3/2005	9:03:50		6998400		-0.773	
		9:03:50	7084800	79.37		26.319
12/4/2005	9:03:50	9:03:50		79.37		26.285
12/5/2005	9:03:50	9:03:50	7171200	79.35	-0.665	26.26
12/6/2005	9:03:50	9:03:50	7257600			26.236
12/7/2005	9:03:50	9:03:50	7344000	79.3	-0.617	26.212
12/8/2005	9:03:50	9:03:50	7430400	79.24		26.204
12/9/2005	9:03:50	9:03:50	7516800	79.21	-0.59	26.185
12/10/2005	9:03:50	9:03:50	7603200	79.19	-0.573	26.168
12/11/2005	9:03:50	9:03:50	7689600	79.19	-0.559	26.154
12/12/2005	9:03:50	9:03:50	7776000	79.15	-0.539	26.134
12/13/2005	9:03:50	9:03:50	7862400	79.12		26.111
12/14/2005	9:03:50	9:03:50	7948800	79.12		26.09
12/15/2005	9:03:50	9:03:50	8035200	79.08	-0.49	26.085
12/16/2005	9:03:50	9:03:50	8121600	79.08	-0.469	26.064
12/17/2005	9:03:50	9:03:50	8208000	79.01	-0.452	26.047
12/18/2005	9:03:50	9:03:50	8294400	79.01	-0.447	26.042
12/19/2005	9:03:50	9:03:50	8380800	78.99	-0.435	26.03
12/20/2005	9:03:50	9:03:50	8467200	78.96	-0.432	26.027
12/21/2005	9:03:50	9:03:50	8553600	78.9	-0.416	26.011
12/22/2005	9:03:50	9:03:50	8640000	78.87	-0.393	25.988
12/23/2005	9:03:50	9:03:50	8726400		-0.374	25.969
12/24/2005	9:03:50	9:03:50	8812800	78.78	-0.36	25.955
12/25/2005	9:03:50	9:03:50	8899200	78.76		25.949
12/26/2005	9:03:50	9:03:50	8985600		-0.33	25.925
12/27/2005	9:03:50	9:03:50	9072000	78.69	-0.315	25.91
12/28/2005	9:03:50	9:03:50	9158400	78.69		25.9
12/29/2005	9:03:50	9:03:50	9244800	78.63		25.89
12/30/2005	9:03:50	9:03:50	9331200	78.58		25.868
12/31/2005	9:03:50	9:03:50	9417600			25.853
1/1/2006	9:03:50	9:03:50	9504000	78.47		25.841
1/2/2006	9:03:50	9:03:50	9590400	78.44		25.833
1/3/2006	9:03:50	9:03:50	9676800			
1/4/2006	9:03:50	9:03:50	9763200	78.33		25.808
1/5/2006	9:03:50	9:03:50	9849600			
1/6/2006	9:03:50	9:03:50	9936000			25.77
1/7/2006	9:03:50	9:03:50	10022400	78.19		25.741
1/8/2006	9:03:50	9:03:50	10108800	78.1	-0.140	25.727
1/9/2006	9:03:50	9:03:50	10195200	78.08	-0.132	25.727
1/10/2006	9:03:50	9:03:50	10281600	78.08	-0.117	25.702
1/11/2006	9:03:50	9:03:50	10368000		-0.107	25.695
1/12/2006	9:03:50		10368000			
		9:03:50				25.679
1/13/2006 1/14/2006	9:03:50	9:03:50	10540800			25.671
	9:03:50	9:03:50	10627200			
1/15/2006	9:03:50	9:03:50	10713600			25.633
1/16/2006	9:03:50	9:03:50	10800000	77.67		25.621
1/17/2006	9:03:50	9:03:50	10886400			
1/18/2006	9:03:50	9:03:50	10972800		0.008	25.587
1/19/2006	9:03:50	9:03:50	11059200	77.49		25.587
1/20/2006	9:03:50	9:03:50	11145600			25.578
1/21/2006	9:03:50	9:03:50	11232000			25.565
1/22/2006	9:03:50	9:03:50	11318400			25.551
1/23/2006	9:03:50	9:03:50	11404800		0.049	25.546
1/24/2006	9:03:50	9:03:50	11491200		0.063	25.532
1/25/2006	9:03:50	9:03:50	11577600			25.509
1/26/2006	9:03:50	9:03:50	11664000			25.487
1/27/2006	9:03:50	9:03:50	11750400			25.464
1/28/2006	9:03:50	9:03:50	11836800	77.04	0.141	25.454
1/29/2006	9:03:50	9:03:50	11923200	77.06	0.151	25.444

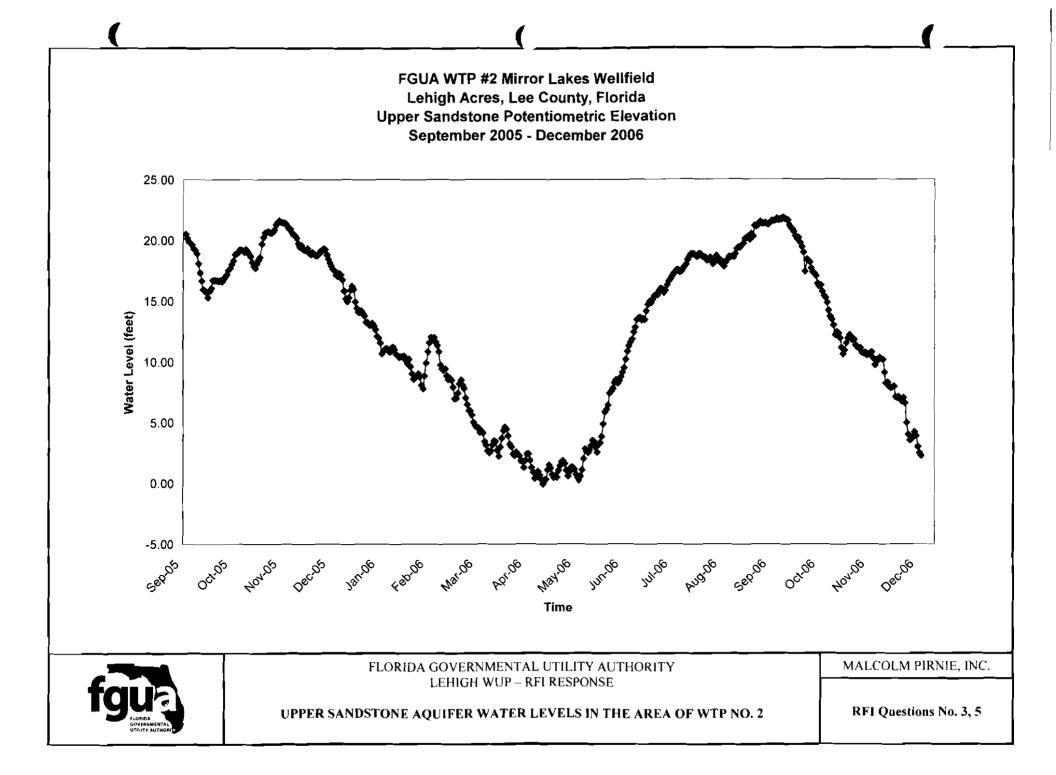
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Date	Time		ET (sec)	Chan[1] Temperatu Fahrenheit		Water Table Elevation
4/1/2006	9:03:50	9:03:50	17280000	75.52	0.526	25.069
4/2/2006	9:03:50	9:03:50	17366400	75.52		25.051
4/3/2006	9:03:50	9:03:50	17452800	75.57		25.031
4/4/2006	9:03:50	9:03:50	17539200	75.54		25.006
4/5/2006	9:03:50	9:03:50	17625600	75.57		23.000
4/6/2006	9:03:50	9:03:50	17712000	75.57		24.967
4/7/2006	9:03:50	9:03:50	17798400	75.57		24.936
4/8/2006	9:03:50	9:03:50	17884800	75.59		24.909
4/9/2006	9:03:50	9:03:50	17971200	75.61		24.909
4/10/2006	9:03:50	9:03:50	18057600			
4/11/2006	9:03:50	9:03:50	18144000	75.61 75.68	0.727 0. <b>75</b> 5	24.868 24.84
4/12/2006	9:03:50	9:03:50	18230400	75.66		24.84
4/13/2006	9:03:50	9:03:50	18316800	75.73		24.01
4/14/2006	9:03:50	9:03:50	18403200	75.73		24.761
4/15/2006	9:03:50	9:03:50	18489600	75.77		24.787
4/16/2006	9:03:50	9:03:50	18576000	75.82		24.734 24.71
4/17/2006	9:03:50	9:03:50	18662400	75.82		24.687
4/18/2006	9:03:50	9:03:50	18748800	75.86		24.663
4/19/2006	9:03:50	9:03:50				
4/20/2006	9:03:50	9:03:50	18835200 18921600	75.91 75.91		24.641 24.612
4/21/2006	9:03:50	9:03:50	19008000	75.91		24.612
4/22/2006	9:03:50	9:03:50	19094400	76.02		24.560 24.567
4/23/2006	9:03:50	9:03:50	19180800	76.02		
4/23/2006	9:03:50	9:03:50	19267200	76.04		
4/25/2006	9:03:50	9:03:50	19353600	76.02		
4/26/2006	9:03:50	9:03:50	19440000	76.09		
4/27/2006	9:03:50	9:03:50	19526400	76.16		
4/28/2006	9:03:50	9:03:50	19612800	76.18		
4/29/2006	9:03:50	9:03:50	19699200			
4/30/2006	9:03:50	9:03:50	19785600	76.25		
5/1/2006	9:03:50	9:03:50	19872000	76.34		
5/2/2006	9:03:50	9:03:50	19958400			24.324
5/3/2006	9:03:50	9:03:50	20044800	76.38		
5/4/2006	9:03:50	9:03:50	20131200	76.4		
5/5/2006	9:03:50	9:03:50	20217600	76.45		
5/6/2006	9:03:50	9:03:50	20217000	76.47		
5/7/2006	9:03:50	9:03:50	20390400	76.52		
5/8/2006	9:03:50	9:03:50	20030400			
5/9/2006	9:03:50	9:03:50	20563200	76.56		24.153
5/10/2006	9:03:50	9:03:50	20649600	76.59		24.13
5/11/2006	9:03:50	9:03:50	20736000	76.61	1.479	24.116
5/12/2006	9:03:50	9:03:50	20822400	76.63		
5/13/2006	9:03:50	9:03:50	20908800	76.68		24.064
5/14/2006	9:03:50	9:03:50	20995200	76.7		
5/15/2006	9:03:50	9:03:50	21081600	76.74		
5/16/2006	9:03:50	9:03:50	21168000	76.77		
5/17/2006	9:03:50	9:03:50	21254400	76.77		
5/18/2006	9:03:50	9:03:50	21340800	76.79		24.014
5/19/2006	9:03:50	9:03:50	21427200	76.84		
5/20/2006	9:03:50	9:03:50	21513600	76.86		
5/21/2006	9:03:50	9:03:50	21600000	76.88		
5/22/2006	9:03:50	9:03:50	21686400	76.93		
5/23/2006	9:03:50	9:03:50	21772800	76.97		
5/24/2006	9:03:50	9:03:50	21859200	76.99		
5/25/2006	9:03:50	9:03:50	21945600	77.02		
5/26/2006	9:03:50	9:03:50	22032000	76.99		23.984
5/27/2006	9:03:50	9:03:50	22118400	77.06		
5/28/2006	9:03:50	9:03:50	22204800	77.15		
5/29/2006	9:03:50	9:03:50	22291200	77.22		
5/30/2006	9:03:50	9:03:50	22377600	78.24		
5/31/2006	9:03:50	9:03:50	22464000	78.6		
		0.00.00				

Date	Time		ET (sec)	Temperatu	Chan[2] Pressure Feet H2O	Water Table Elevation
8/1/2006	9:03:50	9:03:50	27820800	79.26	-0.726	26.321
8/2/2006	9:03:50	9:03:50	27907200	79.17		26.282
8/3/2006	9:03:50	9:03:50	27993600	79.19		
8/4/2006	9:03:50	9:03:50	28080000	79.1	-0.646	
8/5/2006	9:03:50	9:03:50	28166400	79.06	-0.62	
8/6/2006	9:03:50	9:03:50	28252800	79.01	-0.588	26.183
8/7/2006	9:03:50	9:03:50	28339200	78.99	-0.561	26.156
8/8/2006	9:03:50		28425600	79.8		26.756
8/9/2006	9:03:50	9:03:50	28512000	79,78	-1.036	26.631
8/10/2006	9:03:50	9:03:50	28598400	79.64		26.541
8/11/2006	9:03:50	9:03:50	28684800	79.62	-0.89	26.485
8/12/2006	9:03:50	9:03:50	28771200	79.53	-0.824	26.419
8/13/2006	9:03:50	9:03:50	28857600	79.46	-0.775	26.37
8/14/2006	9:03:50	9:03:50	28944000	79.33	-0.756	
8/15/2006	9:03:50	9:03:50	29030400	79.21	-0.745	
8/16/2006	9:03:50	9:03:50	29116800	79.46		
8/17/2006	9:03:50	9:03:50	29203200	79.53		
8/18/2006	9:03:50	9:03:50	29289600	79.44		
8/19/2006	9:03:50	9:03:50	29376000	79.3		
8/20/2006	9:03:50	9:03:50	29462400	80.69		
8/21/2006 8/22/2006	9:03:50	9:03:50	29548800	80.82		
	9:03:50	9:03:50	29635200	81.14		
8/23/2006 8/24/2006	9:03:50 9:03:50	9:03:50 9:03:50	29721600 29808000	81.12 81.37		
8/25/2006	9:03:50	9:03:50	29808000	81.18		
8/26/2006	9:03:50	9:03:50	29980800	81.39		
8/27/2006	9:03:50	9:03:50	30067200	81.3		
8/28/2006	9:03:50	9:03:50	30153600	81.25		
8/29/2006	9:03:50	9:03:50	30240000	81.32		
8/30/2006	9:03:50	9:03:50	30326400	81.68		
8/31/2006	9:03:50	9:03:50	30412800	80.55		
9/1/2006	9:03:50	9:03:50	30499200	81	-2.657	28.252
9/2/2006	9:03:50	9:03:50	30585600	81.61	-2.304	27.899
9/3/2006	9:03:50	9:03:50	30672000	81.82	-2.152	27.747
9/4/2006	9:03:50	9:03:50	30758400	81.82		
9/5/2006	9:03:50	9:03:50	30844800	81.93		
9/6/2006	9:03:50	9:03:50	30931200	81.93		
9/7/2006	9:03:50	9:03:50	31017600	81.86		
9/8/2006	9:03:50	9:03:50	31104000	81.77	-1.764	
9/9/2006	9:03:50	9:03:50	31190400	81.7		27.316
9/10/2006	9:03:50	9:03:50	31276800	81.64		27.23
9/11/2006 9/12/2006	9:03:50 9:03:50	9:03:50 9:03:50	31363200 31449600	81.52 81.52	-1.817	27.412 27.31
9/13/2006	9:03:50	9:03:50	31536000	81.5	-1.98	27.575
9/14/2006	9:03:50	9:03:50	31622400	81.55		
9/15/2006	9:03:50	9:03:50	31708800	81.57		27.376
9/16/2006	9:03:50	9:03:50	31795200	81.57		
9/17/2006	9:03:50	9:03:50	31881600	81.52		
9/18/2006	9:03:50	9:03:50	31968000	81.48		
9/19/2006	9:03:50	9:03:50	32054400	81.55		
9/20/2006	9:03:50	9:03:50	32140800	81.59		
9/21/2006	9:03:50	9:03:50	32227200	81.46		
9/22/2006	9:03:50	9:03:50	32313600	81.37		
9/23/2006	9:03:50	9:03:50	32400000	81.27	-1.369	26.964
9/24/2006	9:03:50	9:03:50	32486400	81.16		
9/25/2006	9:03:50	9:03:50	32572800	81.05		
9/26/2006	9:03:50	9:03:50	32659200	80.94		
9/27/2006	9:03:50	9:03:50	32745600	80.75		
9/28/2006	9:03:50	9:03:50	32832000	80.71	-1.182	
9/29/2006	9:03:50	9:03:50	32918400	80.48	-1.115	
9/30/2006	9:03:50	9:03:50	33004800	80.37	-1.051	26.646

Date	Time		ET (sec)	Temperatu	Chan[2] Pressure Feet H2O	Water Table Elevation
12/1/2006	9:03:50	9:03:50	38361600	79.6	0.043	25.552
12/2/2006	9:03:50	9:03:50	38448000	79.55		
12/3/2006	9:03:50	9:03:50		79.53		
12/4/2006	9:03:50	9:03:50	38620800	79.51	0.125	
12/5/2006	9:03:50	9:03:50	38707200	79.4		
12/6/2006	9:03:50	9:03:50	38793600	79.24		
12/7/2006	9:03:50	9:03:50	38880000	79.21	0.34	
12/8/2006	9:03:50	9:03:50		79.33		
12/9/2006	9:03:50	9:03:50	39052800	79.37		25.287
12/10/2006	9:03:50	9:03:50	39139200	79.4		25.254
12/11/2006	9:03:50	9:03:50	39225600	79.46	0.375	
12/12/2006	9:03:50	9:03:50	39312000	79.51	0.385	
12/13/2006	9:03:50	9:03:50	39398400	79.58		
12/14/2006	9:03:50	9:03:50	39484800	79.6		
12/15/2006	9:03:50	9:03:50	39571200	79.6		
12/16/2006	9:03:50	9:03:50	39657600	79.6		
12/17/2006	9:03:50	9:03:50	39744000	79.6		
12/18/2006	9:03:50	9:03:50	39830400	79.58		
12/19/2006	9:03:50	9:03:50	39916800	79.58		
12/20/2006	9:03:50	9:03:50	40003200	79.58		
12/21/2006	9:03:50	9:03:50	40089600	79.55		
12/22/2006	9:03:50	9:03:50	40176000	79.55		
12/23/2006	9:03:50	9:03:50	40262400	79.53		
12/24/2006	9:03:50	9:03:50	40348800	79.53		
12/25/2006	9:03:50	9:03:50	40435200	79.51	0.327	
12/26/2006	9:03:50	9:03:50	40521600	79.49		
12/27/2006	9:03:50	9:03:50	40608000	79.12	1.382	24.213
12/28/2006	9:03:50	9:03:50	40694400	78.38		
12/29/2006	9:03:50	9:03:50	40780800	78.47	1.233	24.362
12/30/2006	9:03:50	9:03:50	40867200	79.21	0.195	25.4
12/31/2006	9:03:50	9:03:50	40953600	79.33	0.104	25.491
1/1/2007	9:03:50	9:03:50	41040000	79.35	0.079	25.516
1/2/2007	9:03:50	9:03:50	41126400	79.33	0.639	24.956
1/3/2007	9:03:50	9:03:50	41212800	78.67	1.225	24.37
1/4/2007	9:03:50	9:03:50	41299200	78.67	1.175	24.42
1/5/2007	9:03:50	9:03:50	41385600	78.78		24.459
1/6/2007	9:03:50	9:03:50	41472000	78.9		
1/7/2007	9:03:50	9:03:50	41558400	79.01	1.001	24.5 <del>9</del> 4
1/8/2007	9:03:50	9:03:50	41644800	79,1	0.952	24.643
1/9/2007	9:03:50	9:03:50	41731200	79.03		
1/10/2007	9:03:50	9:03:50	41817600	79.08	0.964	
1/11/2007	9:03:50	9:03:50	41904000	79.08		
1/12/2007	9:03:50	9:03:50	41990400	78.92	1.023	
1/13/2007	9:03:50	9:03:50	42076800	79.08		
1/14/2007	9:03:50	9:03:50	42163200	79.08		
1/15/2007	9:03:50	9:03:50	42249600	79.06		
1/16/2007	9:03:50	9:03:50	42336000	79.06		
1/17/2007	9:03:50	9:03:50	42422400	79.01	0.93	
1/18/2007	9:03:50 9:03:50	9:03:50	42508800	78.96		
1/19/2007		9:03:50	42595200	78.87		
1/20/2007 1/21/2007	9:03:50 9:03:50	9:03:50 9:03:50	42681600 42768000	78.85		
1/22/2007	9:03:50	9:03:50	42768000	78.81	1.055 1.045	
1/23/2007	9:03:50	9:03:50	42854400	78.78 78.78		
1/24/2007	9:03:50	9:03:50	42940800	78.78 78.69		
1/25/2007	9:03:50	9:03:50	43027200	78.69		
1/26/2007	9:03:50	9:03:50	43200000	78.63		
1/27/2007	9:03:50	9:03:50	43286400	78.65		
1/28/2007	9:03:50	9:03:50	43286400	78.65		
1/29/2007	9:03:50	9:03:50	43459200	78.63		
1/30/2007	9:03:50	9:03:50	43545600	78.6		
	0.00.00	0.00.00	+00 +0000	, 0.0	1.007	24.040

Data	Time			Chan[1] Temperatu	Chan[2] Pressure Feet H2O	Water Table
Date	Time		ET (sec)	Farirenneit		Elevation
4/2/2007	9:03:50		48902400	76.7	1.618	23.977
4/3/2007	9:03:50		48988800	76.72		24.006
4/4/2007	9:03:50		49075200	76.74		23.942
4/5/2007	9:03:50		49161600	76.72		23.925
4/6/2007	9:03:50		49248000	76.72		23.932
4/7/2007	9:03:50		49334400	76.72		23.899
4/8/2007	9:03:50	9:03:50	49420800	76.74		23.87
4/9/2007	9:03:50	9:03:50	49507200	76.72		23.849
4/10/2007	9:03:50	9:03:50	49593600	76.74	1.762	23.833
4/11/2007	9:03:50	9:03:50	49680000	76.74	1.756	23.839
4/12/2007	9:03:50	9:03:50	49766400	76.79	1.77	23.825
4/13/2007	9:03:50	9:03:50	49852800	76.81	1.794	23.801
4/14/2007	9:03:50	9:03:50	49939200	76.79	1.811	23.784
4/15/2007	9:03:50	9:03:50	50025600	76.81	1.823	23.772
4/16/2007	9:03:50	9:03:50	50112000	76.86	1.731	23.864
4/17/2007	9:03:50		50198400	76.86	1.712	23.883
4/18/2007	9:03:50		50284800			23.884
4/19/2007	9:03:50		50371200			23.86
4/20/2007	9:03:50		50457600			23.833
4/21/2007	9:03:50		50544000			23.808
4/22/2007	9:03:50		50630400	76.93		23.786
4/23/2007	9:03:50		50716800	76.88		23.763
4/24/2007	9:03:50		50803200	76.93		23.747
4/25/2007	9:03:50		50889600	76.95		23.733
4/26/2007	9:03:50		50976000			23.718
4/27/2007	9:03:50		51062400			23,704
4/28/2007	9:03:50		51148800			23.689
4/29/2007	9:03:50		51235200			23.676
4/30/2007	9:03:50		51321600	77.04		
5/1/2007	9:03:50		51408000	77.04		23.65
5/2/2007	9:03:50		51494400			
5/3/2007	9:03:50		51580800			23.624
5/4/2007	9:03:50		51667200			23.612
5/5/2007 5/6/2007	9:03:50 9:03:50		51753600 51840000			23.728 23.767
5/7/2007	9:03:50		51926400	77.18		23.707
5/8/2007	9:03:50		52012800			23.781
5/9/2007	9:03:50		52099200			
5/10/2007	9:03:50		52035200	77.29		23.739
5/11/2007	9:03:50		52272000	77.29		23.717
5/12/2007	9:03:50		52358400	77.29		23.702
5/13/2007	9:03:50		52444800			23.679
5/14/2007	9:03:50		52531200			23.651
5/15/2007	9:03:50		52617600			23.669
5/16/2007	9:03:50		52704000			23.705
5/17/2007	9:03:50		52790400			23.682
5/18/2007	9:03:50		52876800	77.38		23.592
5/19/2007	9:03:50		52963200			23.57
5/20/2007	9:03:50		53049600			23.545
5/21/2007	9:03:50		53136000			
5/22/2007	13:37	7			2.085	23.51



#### Upper Sandstone Monitoring Well, WTP No. 2 site In-Situ Inc.

MiniTroll Pro

9/26/2005

9/27/2005

9/28/2005

Report generated: Report from file: Win-Situ® Version	5/21/2007 \SN20639 2005-09-06 16 4.57.0.0	0000 CUP.bin	15:31:31		
Serial number: Firmware Version Unit name:	20639 3.09 miniTROLL				
Test name:			CUP		
Test defined on: Test scheduled for: Test started on: Test stopped on:	9/6/2005 9/6/2005 9/6/2005 ABEND		12:27:14 16:00:00 16:00:00		
Data gathered using Line Time between data poir Number of data sample	n Seconds.				
TOTAL DATA SAMPLES	466				
Channel number [1] Measurement type: Channel name:	Temperature OnBoard Temp		casing elev	ation = 32.3	37 ft. NGVD
Channel number [2] Measurement type: Channel name: Sensor Range: Sensor Offset:	Pressure OnBoard Pressure 30 PSIG. 0.000 psi				
				Chan[1] Temperatu	۱ ۱ Chan[2] ۱ Pressure
Date			ET (sec)	Fahrenheit	PSł F
		16:00:00	ET (sec) 0	Fahrenheit	
 9/6/2005 9/7/2005	16:00:00 16:00:00	16:00:00	0 86400	Fahrenheit 78.04 78.04	16.839 16.686
9/6/2005 9/7/2005 9/8/2005	16:00:00 16:00:00 16:00:00	16:00:00 16:00:00	0 86400 172800	Fahrenheit 78.04 78.04 78.04	16.839 16.686 16.564
9/6/2005 9/7/2005 9/8/2005 9/9/2005	16:00:00 16:00:00 16:00:00 16:00:00 16:00:00	16:00:00 16:00:00 16:00:00	0 86400 172800 259200	Fahrenheit 78.04 78.04 78.04 78.04	16.839 16.686 16.564 16.507
9/6/2005 9/7/2005 9/8/2005 9/9/2005 9/10/2005	16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00	16:00:00 16:00:00 16:00:00 16:00:00	0 86400 172800 259200 345600	Fahrenheit 78.04 78.04 78.04 78.04 78.04 78.04	16.839 16.686 16.564 16.507 16.448
9/6/2005 9/7/2005 9/8/2005 9/9/2005 9/10/2005 9/11/2005	16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00	16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00	0 86400 172800 259200 345600 432000	Fahrenheit 78.04 78.04 78.04 78.04 78.04 78.04 78.04 78.01	16.839 16.686 16.564 16.507 16.448 16.306
9/6/2005 9/7/2005 9/8/2005 9/9/2005 9/10/2005	16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00	16:00:00 16:00:00 16:00:00 16:00:00	0 86400 172800 259200 345600	Fahrenheit 78.04 78.04 78.04 78.04 78.04 78.04 78.04 78.01	16.839 16.686 16.564 16.507 16.448
9/6/2005 9/7/2005 9/8/2005 9/9/2005 9/10/2005 9/11/2005 9/12/2005	16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00	16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00	0 86400 172800 259200 345600 432000 518400	Fahrenheit 78.04 78.04 78.04 78.04 78.04 78.04 78.01 78.04 78.04	16.839 16.686 16.564 16.507 16.448 16.306 16.263 16.143
9/6/2005 9/7/2005 9/8/2005 9/9/2005 9/10/2005 9/11/2005 9/12/2005 9/13/2005 9/13/2005 9/14/2005	16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00	16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00	0 86400 172800 259200 345600 432000 518400 604800 691200 777600	Fahrenheit 78.04 78.04 78.04 78.04 78.04 78.04 78.04 78.04 78.04 78.04 78.04	16.839 16.686 16.564 16.507 16.448 16.306 16.263 16.143 15.784 15.465
9/6/2005 9/7/2005 9/8/2005 9/10/2005 9/11/2005 9/11/2005 9/12/2005 9/13/2005 9/14/2005 9/15/2005	16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00	16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00	0 86400 172800 259200 345600 432000 518400 604800 691200 777600 864000	Fahrenheit 78.04 78.04 78.04 78.04 78.04 78.04 78.04 78.04 78.04 78.04 78.01 78.01	16.839 16.686 16.564 16.507 16.448 16.306 16.263 16.143 15.784 15.465 15.175
9/6/2005 9/7/2005 9/8/2005 9/10/2005 9/11/2005 9/11/2005 9/12/2005 9/13/2005 9/14/2005 9/15/2005 9/16/2005 9/17/2005	16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00	16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00	0 86400 172800 259200 345600 432000 518400 604800 691200 777600 864000 950400	Fahrenheit 78.04 78.04 78.04 78.04 78.04 78.04 78.04 78.04 78.04 78.04 78.01 78.01 78.01	16.839 16.686 16.564 16.507 16.448 16.306 16.263 16.143 15.784 15.465 15.175 14.868
9/6/2005 9/7/2005 9/8/2005 9/10/2005 9/11/2005 9/11/2005 9/12/2005 9/13/2005 9/14/2005 9/15/2005 9/16/2005 9/17/2005	16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00	16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00	0 86400 172800 259200 345600 432000 518400 604800 691200 777600 864000 950400 1036800	Fahrenheit 78.04 78.04 78.04 78.04 78.04 78.04 78.04 78.04 78.04 78.01 78.01 78.01 78.01 78.01	16.839 16.686 16.564 16.507 16.448 16.306 16.263 16.143 15.784 15.465 15.175 14.868 14.805
9/6/2005 9/7/2005 9/8/2005 9/10/2005 9/11/2005 9/12/2005 9/13/2005 9/13/2005 9/14/2005 9/16/2005 9/16/2005 9/17/2005 9/18/2005	16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00	16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00	0 86400 172800 259200 345600 432000 518400 604800 691200 777600 864000 950400 1036800 1123200	Fahrenheit 78.04 78.04 78.04 78.04 78.04 78.04 78.04 78.04 78.04 78.01 78.01 78.01 78.01 78.01 78.01	16.839 16.686 16.564 16.507 16.448 16.306 16.263 16.143 15.784 15.465 15.175 14.868 14.805 14.768
9/6/2005 9/7/2005 9/8/2005 9/10/2005 9/11/2005 9/12/2005 9/13/2005 9/13/2005 9/14/2005 9/16/2005 9/16/2005 9/17/2005 9/18/2005 9/18/2005	16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00	16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00	0 86400 172800 259200 345600 432000 518400 604800 691200 777600 864000 950400 1036800 1123200 1209600	Fahrenheit 78.04 78.04 78.04 78.04 78.04 78.04 78.04 78.04 78.04 78.01 78.01 78.01 78.01 78.01 78.01 78.01	16.839 16.686 16.564 16.507 16.448 16.306 16.263 16.143 15.784 15.465 15.175 14.868 14.805 14.768 14.565
9/6/2005 9/7/2005 9/8/2005 9/10/2005 9/11/2005 9/12/2005 9/13/2005 9/13/2005 9/14/2005 9/16/2005 9/16/2005 9/17/2005 9/18/2005 9/19/2005 9/20/2005	16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00	16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00	0 86400 172800 259200 345600 432000 518400 604800 691200 777600 864000 950400 1036800 1123200 1209600 1296000	Fahrenheit 78.04 78.04 78.04 78.04 78.04 78.04 78.04 78.04 78.04 78.01 78.01 78.01 78.01 78.01 78.01 78.01 78.01 78.01	16.839 16.686 16.564 16.507 16.448 16.306 16.263 16.143 15.784 15.465 15.175 14.868 14.805 14.768 14.565 14.796
9/6/2005 9/7/2005 9/8/2005 9/10/2005 9/11/2005 9/12/2005 9/13/2005 9/14/2005 9/15/2005 9/16/2005 9/16/2005 9/17/2005 9/18/2005 9/19/2005 9/20/2005	16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00	16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00	0 86400 172800 259200 345600 432000 518400 604800 691200 777600 864000 950400 1036800 1123200 12096000 1296000 1382400	Fahrenheit 78.04 78.04 78.04 78.04 78.04 78.04 78.04 78.04 78.04 78.01 78.01 78.01 78.01 78.01 78.01 78.01 78.01 78.01 78.01 78.01	$\begin{array}{c} 16.839\\ 16.686\\ 16.564\\ 16.507\\ 16.448\\ 16.306\\ 16.263\\ 16.143\\ 15.784\\ 15.465\\ 15.175\\ 14.868\\ 14.805\\ 14.768\\ 14.565\\ 14.796\\ 14.901\\ \end{array}$
9/6/2005 9/7/2005 9/8/2005 9/10/2005 9/11/2005 9/12/2005 9/13/2005 9/14/2005 9/16/2005 9/16/2005 9/16/2005 9/17/2005 9/18/2005 9/19/2005 9/20/2005 9/21/2005	16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00	16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00	0 86400 172800 259200 345600 432000 518400 604800 691200 777600 864000 950400 1036800 1123200 12096000 1296000 1382400 1468800	Fahrenheit 78.04 78.04 78.04 78.04 78.04 78.04 78.04 78.04 78.04 78.01 78.01 78.01 78.01 78.01 78.01 78.01 78.01 78.01 78.01 78.01	16.839 16.686 16.564 16.507 16.448 16.306 16.263 16.143 15.784 15.465 15.175 14.868 14.805 14.768 14.565 14.796 14.901 15.184
9/6/2005 9/7/2005 9/8/2005 9/10/2005 9/11/2005 9/12/2005 9/13/2005 9/14/2005 9/15/2005 9/16/2005 9/16/2005 9/17/2005 9/18/2005 9/19/2005 9/20/2005	16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00           16:00:00	16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00 16:00:00	0 86400 172800 259200 345600 432000 518400 604800 691200 777600 864000 950400 1036800 1123200 12096000 1296000 1382400	Fahrenheit 78.04 78.04 78.04 78.04 78.04 78.04 78.04 78.04 78.01 78.01 78.01 78.01 78.01 78.01 78.01 78.01 78.01 78.01 78.01 78.01 78.01 78.01	$\begin{array}{c} 16.839\\ 16.686\\ 16.564\\ 16.507\\ 16.448\\ 16.306\\ 16.263\\ 16.143\\ 15.784\\ 15.465\\ 15.175\\ 14.868\\ 14.805\\ 14.768\\ 14.565\\ 14.796\\ 14.901\\ \end{array}$

16:00:00

16:00:00

16:00:00

Water

Level

Above

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Troll (FT)

PSI x 2.31

38.898

38.545

38.263

38.131

37.995 37.667

37.568

37.290

36.461

35.724

35.054

34.345

34.200

34.114 33.645

34.179

34.421

35.075

35.094

35.070

35.054

35.022

35.084

78.01

77.99

78.01

15.175

15.161

15.188

16:00:00

16:00:00

16:00:00

1728000

1814400

1900800

Actual

Water

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Level (FT)

20.51

20.15

19.87

19.74 19.60

19.28

19.18

18.90

18.07

17.33

16.66

15.96

15.81 15.72

15.26

15.79

16.03

16.69

16.70

16.68

16.66

16.63

16.69

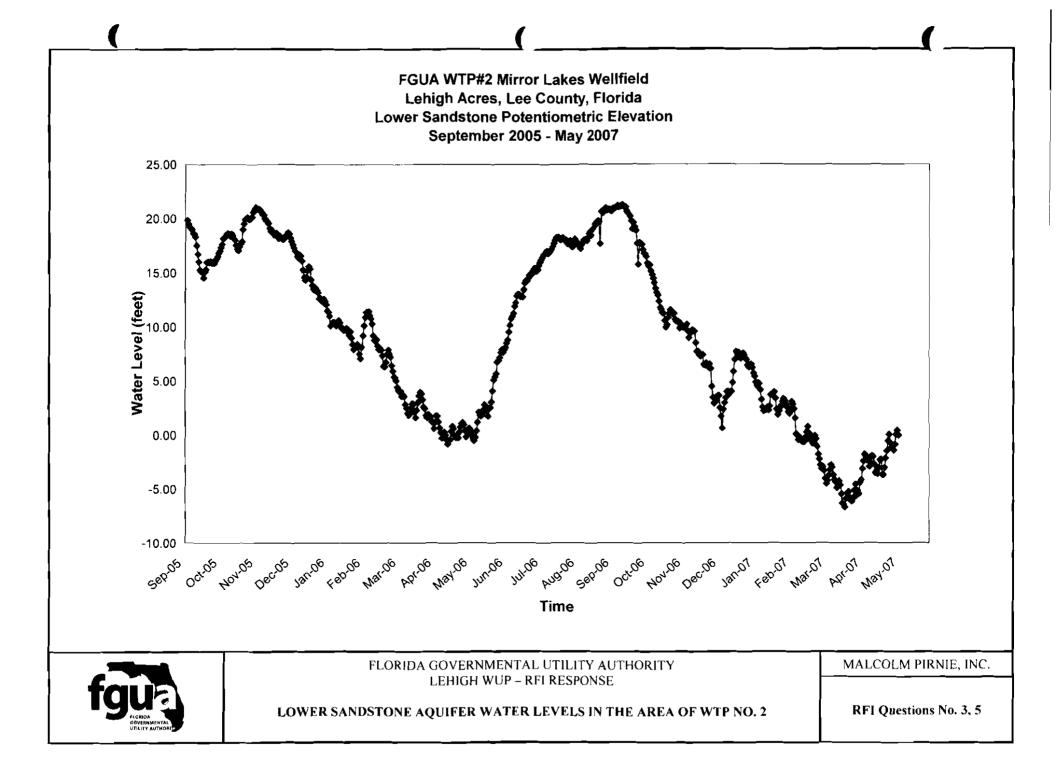
(F-18.39)

Date	Time		ET (sec)	Chan[1] Temperatu Fahrenheit		Water Level Above Troll (FT) PSI x 2.31	Actual Water Level (FT) (F-18.39)
11/26/2005	16:00:00	16:00:00	6998400	78.01	16.123	37.244	18.85
11/27/2005	16:00:00	16:00:00	7084800	78.01	16.07		
11/28/2005	16:00:00	16:00:00	7171200		16.069		18,73
11/29/2005	16:00:00	16:00:00	7257600	78.01	16.118	37.233	18.84
11/30/2005	16:00:00	16:00:00	7344000	78.01	16.219	37.466	19.08
12/1/2005	16:00:00	16:00:00	7430400	78.01	16.23	37.491	19.10
12/2/2005	16:00:00	16:00:00	7516800		16.311	37.6 <b>7</b> 8	19.29
12/3/2005	16:00:00	16:00:00	7603200	78.01	16.281	37.609	19.22
12/4/2005	16:00:00	16:00:00	7689600		16.093		18.78
12/5/2005	16:00:00	16:00:00	7776000		15.947		18.45
12/6/2005	16:00:00	16:00:00	7862400	78.01	15.813		18.14
12/7/2005	16:00:00	16:00:00	7948800		15.7		17.88
12/8/2005 12/9/2005	16:00:00 16:00:00	16:00:00 16:00:00	8035200 8121600	78.01 78.04	15.58 15.533		17.60
12/10/2005	16:00:00	16:00:00	8208000		15.367		17.49 17.11
12/11/2005	16:00:00	16:00:00	8294400	78.01	15.322		17.00
12/12/2005	16:00:00	16:00:00	8380800	78.01	15.434		17.26
12/13/2005	16:00:00	16:00:00	8467200		15.379		17.14
12/14/2005	16:00:00	16:00:00	8553600		15 195		16.71
12/15/2005	16:00:00	16:00:00	8640000	78.04	14.808		15.82
12/16/2005	16:00:00	16:00:00	8726400		14.531	33.567	15.18
12/17/2005	16:00:00	16:00:00	8812800				14.95
12/18/2005	16:00:00	16:00:00	8899200	78.04	14.572		15.27
12/19/2005	16:00:00	16:00:00	8985600		14.831	34.260	15.87
12/20/2005	16:00:00	16:00:00	9072000		14.975		16.20
12/21/2005	16:00:00	16:00:00	9158400		14.863		15.94
12/22/2005	16:00:00	16:00:00	9244800			33.313	
12/23/2005 12/24/2005	16:00:00 16:00:00	16:00:00 16:00:00	9331200 9417600		14.191 14.053	32.781 32.462	14.3 <del>9</del> 14.07
12/25/2005	16:00:00	16:00:00	9504000				
12/26/2005	16:00:00	16:00:00	9590400				
12/27/2005	16:00:00	16:00:00	9676800				
12/28/2005	16:00:00	16:00:00	9763200				
12/29/2005	16:00:00	16:00:00	9849600	78.06	13.687	31.617	13.23
12/30/2005	16:00:00	16:00:00	9936000		13.688	31.619	13.23
12/31/2005	16:00:00		10022400				
1/1/2006	16:00:00		10108800				13.00
1/2/2006	16:00:00		10195200		13.666		13.18
1/3/2006	16:00:00		10281600	78.06	13.564		12.94
1/4/2006 1/5/2006	16:00:00 16:00:00		10368000				12.64 12.09
1/6/2006	16:00:00		10434400		13.193		
1/7/2006	16:00:00		10627200		12,959		11.55
1/8/2006	16:00:00		10713600		12.568		
1/9/2006	16:00:00		10800000				
1/10/2006	16:00:00	16:00:00	10886400				11.03
1/11/2006	16:00:00	16:00:00	10972800		12.76	29.476	
1/12/2006	16:00:00	16:00:00	11059200	78.08	12.669	29.265	10.88
1/13/2006	16:00:00		11145600				
1/14/2006	16:00:00		11232000		12,777		
1/15/2006	16:00:00		11318400		12.814		
1/16/2006	16:00:00		11404800				
1/17/2006	16:00:00		11491200		12.547		
1/18/2006 1/19/2006	16:00:00 16:00:00		11577600 11664000		12.505 12.448		
1/20/2006	16:00:00		11750400		12.440		
1/21/2006	16:00:00		11836800		12.407		
1/22/2006	16:00:00		11923200		12.495		
							-

Date	Time		ET (sec)	Chan[1] Temperatu Fahrenheit		Water Level Above Troll (FT) PSI x 2.31	Actual Water Level (FT) (F-18.39)
3/22/2006	16:00:00	16:00:00	17020800	78.24	9,139	21.111	2.72
3/23/2006	16:00:00		17107200	78.22	8.921	20.608	2.22
3/24/2006	16:00:00	16:00:00	17193600	78.22	9.248	21.363	2.97
3/25/2006	16:00:00		17280000	78.22	9.559		3.69
3/26/2006	16:00:00		17366400	78.22	9.831	22.710	4.32
3/27/2006	16:00:00		17452800	78.22	9.955		4.61
3/28/2006	16:00:00		17539200	78.22	9.883		4.44
3/29/2006	16:00:00		17625600		9.638		
3/30/2006 3/31/2006	16:00:00 16:00:00		17712000 17798400	78.24 78.22	9.348 9.25		3.20 2.98
4/1/2006	16:00:00		17884800		9.002		2.90
4/2/2006	16:00:00		17971200	78.22	8.945		2.27
4/3/2006	16:00:00		18057600	78.22	9.072		2.57
4/4/2006	16:00:00		18144000		9		
4/5/2006	16:00:00		18230400		8.933		2.25
4/6/2006	16:00:00	16:00:00	18316800	78.22	8.766	20.249	1.86
4/7/2006	16:00:00		18403200		8.741	20.192	1.80
4/8/2006	16:00:00		18489600		8.52		1.29
4/9/2006	16:00:00		18576000	78.24	8.78		1.89
4/10/2006	16:00:00		18662400		9.006		2.41
4/11/2006	16:00:00		18748800 18835200		9.008		2.42
4/12/2006 4/13/2006	16:00:00 16:00:00		18921600	78.22 78.22	8.782 8.511	20.286 19.660	
4/14/2006	16:00:00		19008000		8.353		0.91
4/15/2006	16:00:00		19094400		8.127		
4/16/2006	16:00:00		19180800		8.279		
4/17/2006	16:00:00	16:00:00	19267200	78.22	8.372		
4/18/2006	16:00:00	16:00:00	19353600		8.235	19.023	
4/19/2006	16:00:00		19440000		8.081	18.667	
4/20/2006	16:00:00		19526400		7.916		
4/21/2006	16:00:00		19612800		8.063		
4/22/2006	16:00:00		19699200		8.084		
4/23/2006	16:00:00		19785600		8.429		1.08
4/24/2006 4/25/2006	16:00:00 16:00:00		19872000 19958400		8.607 8.495		
4/26/2006	16:00:00		20044800		8.265		
4/27/2006	16:00:00		20131200		8.168		
4/28/2006	16:00:00		20217600		8.24		
4/29/2006	16:00:00	16:00:00	20304000	78.22	8.167	18.866	0.48
4/30/2006	16:00:00		20390400	78.22	8.417	19.443	1.05
5/1/2006	16:00:00		20476800		8.59		1.45
5/2/2006	16:00:00		20563200	78.19	8.733	20.173	1.78
5/3/2006	16:00:00		20649600		8.764		1.85
5/4/2006	16:00:00		20736000		8.662		1.62
5/5/2006	16:00:00		20822400		8.421	19.453	
5/6/2006 5/7/2006	16:00:00 16:00:00		20908800 20995200	78.19 78.19	8.219 8.383		0.60 0.97
5/8/2006	16:00:00		21081600		8.53		1.31
5/9/2006	16:00:00		21168000		8.527		
5/10/2006	16:00:00		21254400		8.456		
5/11/2006	16:00:00		21340800		8.279		
5/12/2006	16:00:00		21427200		8.16		
5/13/2006	16:00:00		21513600		8.075		
5/14/2006	16:00:00		21600000		8.219	18.986	
5/15/2006	16:00:00		21686400		8.441	19.499	
5/16/2006	16:00:00		21772800		8.83		2.01
5/17/2006	16:00:00		21859200		9.189		
5/18/2006	16:00:00	16:00:00	21945600	78.17	9.083	20.982	2.59

Date	Time		ET (sec)	Chan[1] Temperatu Fahrenheit		Water Level Above Troll (FT) PSI x 2.31	Actual Water Level (FT) (F-18.39)
7/16/2006	16:00:00	16:00:00	27043200	78.04	15.485	35.770	17.38
7/17/2006	16:00:00		27129600				
7/18/2006	16:00:00		27216000		15.609	36.057	17.67
7/19/2006	16:00:00		27302400		15.689	36.242	17.85
7/20/2006	16:00:00		27388800		15.764		18.02
7/21/2006	16:00:00		27475200		15.919		18.38
7/22/2006	16:00:00		27561600		16.028		18.63
7/23/2006	16:00:00		27648000		16.127		
7/24/2006	16:00:00		27734400		16.126		18.86
7/25/2006 7/26/2006	16:00:00 16:00:00		27820800 27907200		16.123 16.062		18.85
7/27/2006	16:00:00		27993600		16.035		18.71 18.65
7/28/2006	16:00:00		28080000		16.125		
7/29/2006	16:00:00		28166400		16.118		
7/30/2006	16:00:00		28252800		16.047		
7/31/2006	16:00:00		28339200		16.026		
8/1/2006	16:00:00		28425600		16.007		
8/2/2006	16:00:00	16:00:00	28512000	78.01	15.903	36.736	18.35
8/3/2006	16:00:00		28598400		15. <del>9</del> 1	36.752	18.36
8/4/2006	16:00:00		28684800		16.001		
8/5/2006	16:00:00		28771200				18.32
8/6/2006	16:00:00		28857600				
8/7/2006	16:00:00		28944000				
8/8/2006 8/9/2006	16:00:00 16:00:00		29030400 29116800				
8/10/2006	16:00:00		29203200				
8/11/2006	16:00:00		29289600				
8/12/2006	16:00:00		29376000				
8/13/2006	16:00:00		29462400				
8/14/2006	16:00:00	16:00:00	29548800	77.97	15.848	36.609	18.22
8/15/2006	16:00:00		29635200				
8/16/2006	16:00:00		29721600				
8/17/2006	16:00:00		29808000				
8/18/2006	16:00:00		29894400				
8/19/2006 8/20/2006	16:00:00 16:00:00		29980800				
8/21/2006	16:00:00		30153600				
8/22/2006	16:00:00		30240000				19.44
8/23/2006	16:00:00	16:00:00	30326400		16.37		19.42
8/24/2006	16:00:00		30412800		16.439		
8/25/2006	16:00:00		30499200		16.512		
8/26/2006	16:00:00	16:00:00	30585600	77.99	16.669	38.505	20.12
8/27/2006	16:00:00		30672000		16.714	38.609	
8/28/2006	16:00:00		30758400		16.753		
8/29/2006	16:00:00		30844800				
8/30/2006	16:00:00		30931200		16.846		
8/31/2006	16:00:00		31017600				
9/1/2006 9/2/2006	16:00:00 16:00:00		31104000 31190400		17.136 17.113		21.19 21.14
9/3/2006	16:00:00		31276800		17.143		
9/4/2006	16:00:00		31363200		17.143		
9/5/2006	16:00:00		31449600				21.54
9/6/2006	16:00:00		31536000				
9/7/2006	16:00:00		31622400		17.221		21.39
9/8/2006	16:00:00	16:00:00	31708800				21.44
9/9/2006	16:00:00		31795200				
9/10/2006	16:00:00		31881600		17.189		
9/11/2006	16:00:00	16:00:00	31968000	77.97	17.27	39.894	21.50

Date	Time			Chan(1) Temperatu Fahrenheit			Actuał Water Level (FT) (F-18.39)
11/9/2006	16:00:00	16.00.00	37065600	77.97	12.592	29.088	10.70
11/10/2006	16:00:00		37152000	77.97			10.77
11/11/2006	16:00:00		37238400	77.97		28.940	10.55
11/12/2006	16:00:00		37324800	77.97			10.61
11/13/2006	16:00:00		37411200	77.97		29.060	10.67
11/14/2006	16:00:00		37497600	77.97		29,191	10.80
11/15/2006	16:00:00		37584000	77.99			10.28
11/16/2006	16:00:00		37670400	77.99		28.115	9.73
11/17/2006	16:00:00		37756800	77.99		28.538	10.15
11/18/2006	16:00:00		37843200	77.99		28.519	10.13
11/19/2006	16:00:00		37929600	77.99		28.725	10.33
11/20/2006	16:00:00		38016000	77.99			10.26
11/21/2006	16:00:00		38102400	77.99			10.17
11/22/2006	16:00:00		38188800	77.99			9.11
11/23/2006	16:00:00		38275200	77.99			8.22
11/24/2006	16:00:00		38361600	77.99		26.683	8.29
11/25/2006	16:00:00		38448000	77.99			
11/26/2006	16:00:00		38534400	77.99			7.84
11/27/2006	16:00:00		38620800	77.99		26.290	7.90
11/28/2006	16:00:00		38707200	77.99			
11/29/2006	16:00:00		38793600	78.01		25.482	
11/30/2006	16:00:00		38880000	78.01			
12/1/2006	16:00:00		38966400	78.01			
12/2/2006	16:00:00		39052800	78.01			
12/3/2006	16:00:00		39139200	78.01			
12/4/2006	16:00:00		39225600	78.01	11.012		7.05
12/5/2006	16:00:00		39312000	78.01	10.818		6.60
12/6/2006	16:00:00		39398400	78.01		23.354	4.96
12/7/2006	16:00:00		39484800	78.01		22,391	4.00
12/8/2006	16:00:00		39571200	78.01	9.495		3.54
12/9/2006	16:00:00		39657600	78.01			3.62
12/10/2006	16:00:00		39744000	78.01			3.80
12/11/2006	16:00:00		39830400	78.01			
12/12/2006	16:00:00		39916800	78.04			
12/13/2006	16:00:00		40003200	78.04		21.416	
12/14/2006	16:00:00		40089600	78.04			
12/15/2006	16:00:00		40176000	78.04		20.677	
5/21/2007	16:00	10.00.00		, 0.04	8.818		
	10.00				2.210	20.070	



# Lower Sandstone Monitoring Well, WTP No. 2 site In-Situ Inc. MiniTroll Pro

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Report generated: Report from file: Win-Situ® Version	5/18/2007 \SN20761 2005-09-06 4.57.0.0	13:46:58 160000 Test #1.bin	
Serial number: Firmware Version Unit name:	20761 3.09 miniTROLL		
Test name:		Test #1	
Test defined on: Test scheduled for: Test started on: Test stopped on:	9/6/2005 9/6/2005 9/6/2005 ABEND	14:27:26 16:00:00 16:00:00	
Data gathered using Linear Time between data points	-		
Number of data samples:	618		
TOTAL DATA SAMPLES	618		
Channel number [1] Measurement type: Channel name:	Temperature OnBoard Temp	Casing Elevation=	31.34 feet
Channel number [2] Measurement type:	Pressure		

OnBoard Pressure

30 PSIG.

Sensor Offset:		0.000 psi						
	Date	Time	Date + Time	ET (sec)	Chan[1] Temperatu Fahrenheit	Pressure	Water Level Above Troll (FT) PSI x 2.31	Actual GW Elevation (FT) (F -19.84)
	 9/6/2005	16:00:00	16:00:00	0	78.13	17.189	39.71	19.87
	9/7/2005	16:00:03	16:00:03	86403				19.49
	9/8/2005	16:00:06	16:00:06	172806			39.07	19.23
	9/9/2005	16:00:09	16:00:09	259209				19.10
	9/10/2005	16:00:12	16:00:12	345612				18.97
	9/11/2005	16:00:15	16:00:15	432015	78.42	16.657	38.48	18.64
	9/12/2005	16:00:18	16:00:18	518418	78.17	16.622	38.40	18.56
	9/13/2005	16:00:21	16:00:21	604821	78.17	16.511	38.14	18.30
	9/14/2005	16:00:24	16:00:24	691224	78.17	16.161	37.33	17.49
	9/15/2005	16:00:27	16:00:27	777627	78.15	15.822	36.55	16.7 <b>1</b>
	9/16/2005	16:00:30	16:00:30	864030	78.15	15.517	35.84	16.00
	9/17/2005	16:00:33	16:00:33	950433	78.15	15.19	35.09	15.25
	9/18/2005	16:00:36	16:00:36	1036836	78.15	15,123	34.93	15.09
	9/19/2005	16:00:39	16:00:39	1123239	78.15	15.1	34.88	15.04
	9/20/2005	16:00:42	16:00:42	1209642	78.15	14.866	34.34	14.50
	9/21/2005	16:00:45	16:00:45	1296045	78.15	15.107	34.90	15.06
	9/22/2005	16:00:48	16:00:48	1382448	78.13	15.2	35.11	15.27
	9/23/2005	16:00:51	16:00:51	1468851	78.13	15.5	35.81	15.97
	9/24/2005	16:00:54	16:00:54	1555254	78.15	15.52	35.85	16.01
	9/25/2005	16:00:57	16:00:57	1641657	78.13	15.496	35.80	15.96
	9/26/2005	16:01:00	16:01:00	1728060	78.13	15.527	35.87	16.03
	9/27/2005	16:01:03	16:01:03	1814463	78,13	15.476	35.75	15.91
	9/28/2005	16:01:06	16:01:06	1900866	78.13	15.509	35.83	15.99
	9/29/2005	16:01:09	16:01:09	1987269	78.13	15.455	35.70	15.86
	9/30/2005	16:01:12	16:01:12	2073672	78.13	15.544	35.91	16.07

Channel name: Sensor Range:

Date	Time	Date + Time	ET (sec)	Chan[1] Temperatu Fahrenheit		Water Level Above Troll (FT) PSI x 2.31	Actual GW Elevation (FT) (F -19.84)
11/30/2005	16:04:15	16:04:15	7344255	78.11	16.565	38.27	18.43
12/1/2005	16:04:18	16:04:18	7430658		16.574	38.29	18.45
12/2/2005	16:04:21	16:04:21	75 <b>17</b> 061	78.11	16.685	38.54	18.70
12/3/2005	16:04:24	16:04:24	7603464	78.11	16.626	38.41	18.57
12/4/2005	16:04:27	16:04:27	7689867	78.11	16.467		
12/5/2005	16:04:30	16:04:30	7776270	78.11	16.332	37.73	
12/6/2005	16:04:33	16:04:33	7862673		16.192	37.40	
12/7/2005	16:04:36	16:04:36	7949076		16.067	37.11	17.27
12/8/2005	16:04:39	16:04:39	8035479		15.942	36.83	16.99
12/9/2005 12/10/2005	16:04:42 16:04:45	16:04:42 16:04:45	8121882 8208285		15.902 15.728	36.73 36.33	
12/11/2005	16:04:48	16:04:43	8294688		15.673	36.33	
12/12/2005	16:04:51	16:04:51	8381091	78.11	15.797	36.49	
12/13/2005	16:04:54	16:04:54	8467494			36.38	
12/14/2005	16:04:57	16:04:57	8553897			35.94	
12/15/2005	16:05:00	16:05:00	8640300			35.08	
12/16/2005	16:05:03	16:05:03	8726703	78.11	14.892	34.40	
12/17/2005	16:05:06	16:05:06	8813106	78.13	14.771	34.12	14.28
12/18/2005	16:05:09	16:05:09	8899509		14.892	34.40	
12/19/2005	16:05:12	16:05:12	8985912			35.01	15.17
12/20/2005	16:05:15	16:05:15	9072315		15.323	35.40	
12/21/2005	16:05:18	16:05:18	9158718		15.224	35.17	
12/22/2005 12/23/2005	16:05:21 16:05:24	16:05:21 16:05:24	9245121 9331524	78.13 78.11	14.79 14.567	34.16 33.65	
12/24/2005	16:05:27	16:05:27	9417927		14.407		
12/25/2005	16:05:30	16:05:30	9504330		14.395		
12/26/2005	16:05:33	16:05:33	9590733		14.462		13.57
12/27/2005	16:05:36	16:05:36	9677136	78.13			13.36
12/28/2005	16:05:39	16:05:39	9763539	78.11	14.278	32.98	13.14
12/29/2005	16:05:42	16:05:42	9849942		14.039	32.43	
12/30/2005	16:05:45	16:05:45	9936345		14.044	32.44	
12/31/2005	16:05:48	16:05:48	10022748		13.95	32.22	
1/1/2006	16:05:51	16:05:51	10109151	78.11	13.921	32.16	
1/2/2006 1/3/2006	16:05:54 16:05:57	16:05:54 16:05:57	10195554 10281957		14.024 13.935	32.40 32.19	
1/4/2006	16:06:00	16:06:00	10281957	78.11	13.935	32.19	
1/5/2006	16:06:03	16:06:03	10454763		13.551	31.30	
1/6/2006	16:06:06	16:06:06	10541166		13.488	31.16	
1/7/2006	16:06:09	16:06:09	10627569	78.11	13.331	30.79	
1/8/2006	16:06:12	16:06:12	10713972	78.08	12.95	29.91	10.07
1/9/2006	16:06:15	16:06:15	10800375	78.11	12.999	30.03	10.19
1/10/2006	16:06:18	16:06:18	10886778		13.087	30.23	
1/11/2006	16:06:21	16:06:21	10973181	78.08		30.25	
1/12/2006	16:06:24	16:06:24	11059584		13.013	30.06	
1/13/2006	16:06:27	16:06:27	11145987		12.959	29.94	
1/14/2006 1/15/2006	16:06:30 16:06:33	16:06:30 16:06:33	11232390 11318793	78.11 78.08	13.09 13.17	30.24 30.42	
1/16/2006	16:06:36	16:06:36	11405196		13.084	30.42	
1/17/2006	16:06:39	16:06:39	11491599		12.913	29.83	
1/18/2006	16:06:42	16:06:42	11578002		12.838	29.66	
1/19/2006	16:06:45	16:06:45	11664405		12.782	29.53	9.69
1/20/2006	16:06:48	16:06:48	11750808		12.799	29.57	9.73
1/21/2006	16:06:51	16:06:51	11837211	78.11	12.819	29.61	9.77
1/22/2006	16:06:54	16:06:54	11923614	78.11	12.846	29.67	
1/23/2006	16:06:57	16:06:57	12010017		12.708	29.36	9.52
1/24/2006	16:07:00	16:07:00	12096420		12.566	29.03	
1/25/2006	16:07:03	16:07:03	12182823		12.711	29.36	9.52
1/26/2006	16:07:06	16:07:06	12269226		12.465	28.79	8.95
1/27/2006 1/28/2006	16:07:09 16:07:12	16:07:09 16:07:12	12355629 12442032		12.208 11.999	28.20	8.36 7.88
1/20/2000	10.07.12	10.07.72	12742002	70.11	11.333	27.72	1.00

32302006         16:10:15         16:10:16         17712815         78.11         9.699         22.40         2.56           331/2006         16:10:21         16:10:21         1785421         78.11         9.362         22.55         2.163         1.79           4/22006         16:10:24         16:10:24         17971824         78.11         9.405         2.17.3         1.89           4/32006         16:10:30         18:10:30         18:14630         78.11         9.405         1.6         1.73         1.89           4/42006         16:10:33         18:10:30         18:13037         78.11         9.12         2.1.6         1.6           4/5/2006         16:10:42         16:10:42         16:10:44         16:10:44         16:10:44         16:10:44         16:10:44         16:10:44         16:10:44         16:10:44         16:10:44         16:10:44         16:10:44         16:10:44         16:10:44         16:10:44         16:10:44         16:10:44         16:10:44         16:10:44         16:10:44         16:10:44         16:10:44         16:10:44         16:10:44         16:10:44         16:10:44         16:10:44         16:10:44         16:10:44         16:10:44         16:10:44         16:10:44         16:10:44         16:10	Date	Time	Date + Time	ET (sec)	Chan[1] Temperatu Fahrenheit		Water Level Above Troll (FT) PSI x 2.31	Actual GW Elevation (FT) (F -19.84)
41/2006         16:10:21         16:10:24         178942         78.11         9.263         21.43         1.59           4/22006         16:10:27         16:10:24         1971824         78.11         9.405         21.43         1.59           4/4/2006         16:10:33         16:10:36         18:10:33         18:21033         78.11         9.361         21.62         1.78           4/6/2006         16:10:36         18:10:33         18:21033         78.11         9.42         21.01         1.71           4/6/2006         16:10:42         16:10:42         16:10:42         18:40309         78.11         9.937         21.00         1.16           4/10/2006         16:10:42         16:10:44         18:663048         78.11         9.939         21.62         1.78           4/11/22006         16:10:05         16:10:57         1992227         78.11         8.644         0.64           4/14/22006         16:11:00         16:11:00         19019660         78.11         8.674         98.3         0.23           4/16/2006         16:11:01         16:11:03         19095063         78.11         8.571         98.1         -0.03           4/16/2006         16:11:12         16:11:27	3/30/2006	16:10:15	16:10:15	17712615	78.11	9.699	22.40	2.56
4/2/2006         16:10:24         16:10:27         16:027         16:027         16:027         16:027         16:027         16:027         16:027         16:023         16:10:30         16:10:30         16:10:30         16:10:30         16:10:30         16:10:30         16:10:30         16:10:30         16:10:30         16:10:30         16:10:30         16:10:30         16:10:30         16:10:30         16:10:30         16:10:34         16:10:34         16:10:34         16:10:34         16:10:34         16:10:34         16:10:34         16:10:34         16:10:34         16:10:34         16:10:34         16:10:34         16:10:34         16:10:34         16:10:34         16:10:34         16:10:34         16:10:34         16:10:34         16:10:34         16:10:34         16:10:35         16:10:35         16:10:35         16:10:35         16:10:35         16:10:35         16:10:35         16:10:35         16:10:35         16:10:35         16:10:35         16:10:35         16:10:35         16:10:35         16:10:35         16:10:35         16:10:35         16:10:35         16:10:35         16:10:35         16:10:35         16:10:35         16:10:35         16:10:35         16:10:35         16:10:35         16:10:35         16:10:35         16:10:35         16:11:35         16:11:35         16:11:35 <td>3/31/2006</td> <td>16:10:18</td> <td></td> <td></td> <td></td> <td></td> <td>22.25</td> <td></td>	3/31/2006	16:10:18					22.25	
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4/14/2006         16:11:00         19006660         78:11         8.693         20.08         0.24           4/15/2006         16:11:03         16:11:03         19095063         78:11         8.454         19.53         -0.31           4/16/2006         16:11:09         16:11:09         19876769         78:11         8.691         20.08         0.24           4/18/2006         16:11:12         16:11:12         1935427         78:11         8.577         19.81         -0.03           4/18/2006         16:11:12         16:11:12         1935427         78:11         8.397         19.40         -0.44           4/20/2006         16:11:21         16:11:12         1961347         78:11         8.381         19.31         -0.53           4/22/2006         16:11:24         16:11:24         1969903         78:11         8.721         20.15         0.31           4/26/2006         16:11:30         16:11:30         1987690         78:11         8.724         20:61         0.77           4/26/2006         16:11:30         16:11:30         2013189         78:11         8.724         19:73         -0.11           4/28/2006         16:11:42         16:11:42         20218302         78:11								
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8/18/2006 16:17:18 16:17:18 29895438 77.97 16.412 37.91	17.99
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8/21/2006 16:17:27 16:17:27 30154647 77.97 16:625 38.40	18.56
8/22/2006 16:17:30 16:17:30 30241050 77.95 16.703 38.58	18.74
8/23/2006 16:17:33 16:17:33 30327453 77.97 16.57 38.28	18.44
8/24/2006 16:17:36 16:17:36 30413856 77.97 16.798 38.80	18.96
8/25/2006 16:17:39 16:17:39 30500259 77.95 16.874 38.98	19.14
8/26/2006 16:17:42 16:17:42 30586662 77.95 17.015 39.30	19.46
8/27/2006 16:17:45 16:17:45 30673065 77.95 17.069 39.43	19.59
8/28/2006 .16:17:48 16:17:48 30759468 77.95 17.032 39.34	19.50
8/29/2006 16:17:51 16:17:51 30845871 77.95 17.153 39.62	19.78
8/30/2006         16:17:54         16:17:54         30932274         77.97         17.128         39.57           8/31/2006         16:17:57         16:17:57         31018677         77.95         16:242         37.52	19.73 17.68
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9/2/2006 16:18:03 16:18:03 31191483 77.95 17.468 40.35	20.51
9/3/2006 16:18:06 16:18:06 31277886 77.97 17.503 40.43	20.59
9/4/2006 16:18:09 16:18:09 31364289 77.97 17.63 40.73	20.89
9/5/2006 16:18:12 16:18:12 31450692 77.97 17.667 40.81	20.97
9/6/2006 16:18:15 16:18:15 31537095 77.95 17.581 40.61	20.77
9/7/2006 16:18:18 16:18:18 31623498 77.97 17.598 40.65	20.81
9/8/2006         16:18:21         16:18:21         31709901         77.97         17.619         40.70	20.86
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9/11/2006         16:18:30         16:18:30         31969110         77.95         17.658         40.79           9/12/2006         16:18:33         16:18:33         32055513         77.97         17.663         40.80	20.95
9/13/2006 16:18:36 16:18:36 32141916 77.95 17.677 40.83	20.99
9/14/2006 16:18:39 16:18:39 32228319 77.97 17.709 40.91	21.07
9/15/2006 16:18:42 16:18:42 32314722 77.97 17.768 41.04	21.20
9/16/2006 16:18:45 16:18:45 32401125 77.95 17.709 40.91	21.07
9/17/2006 16:18:48 16:18:48 32487528 77.95 17.745 40.99	21.15
9/18/2006 16:18:51 16:18:51 32573931 77.97 17.739 40.98	21.14
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9/20/2006 16:18:57 16:18:57 32746737 77.95 17.762 41.03	21.19
9/21/2006 16:19:00 16:19:00 32833140 77.95 17.691 40.87	21.03
9/22/2006 16:19:03 16:19:03 32919543 77.95 17.701 40.89	21.05
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9/25/2006 16:19:19 16:19:19 33092349 77:97 17:434 40:32 9/25/2006 16:19:12 16:19:12 33178752 77:95 17:401 40:20	20.46

11/25/2006       16:22:15       16:22:18       36:3738       77.95       11.788       27.31       7.39         11/26/2006       16:22:11       16:22:13       38622141       77.95       11.796       27.18       7.34         11/28/2006       16:22:24       16:22:24       38708544       77.95       11.392       22.32       6.44         11/28/2006       16:22:30       16:22:30       39891350       77.95       11.382       28.12       6.47         12/20206       16:22:30       16:22:30       39404556       77.95       11.29       80.6       6.24         12/2/2006       16:22:42       16:22:42       3922662       77.95       11.413       26.08       6.24         12/2/2006       16:22:44       16:22:45       3939768       77.95       10.531       24.33       4.49         12/1/2006       16:22:54       16:22:57       3957574       77.95       9.866       22.02       22.13       3.1       3.47         12/1/2006       16:22:54       16:23:03       39631787       77.95       9.866       22.32       2.49       12/1/2006       16:23:12       16:3303       39631787       77.95       9.866       22.33       1.8       12/1/2006	Date	Time	Date + Time	ET (sec)	Chan[1] Temperatu Fahrenheit		Water Level Above Troll (FT) PSI x 2.31	Actual GW Elevation (FT) (F -19.84)
11/27/2006       16/22:21       3622141       77.95       11.786       27.85       7.44         11/28/2006       16/22:37       16/22:33       38704947       77.95       11.389       26.32       6.46         11/30/2006       16/22:33       16/22:30       38881350       77.95       11.389       26.31       6.47         12/1/2006       16/22:30       16/22:30       39054156       77.95       11.281       26.49       6.63         12/2/2006       16/22:42       16/22:43       39165057       77.95       11.431       26.08       6.52         12/4/2006       16/22:42       16/22:42       3939768       77.95       10.531       24.33       4.49         12/7/2006       16/22:54       16/22:54       39572574       77.95       10.512       27.47       3.63         12/12/2006       16/22:05       16/23:03       39631783       77.95       10.159       23.47       3.63         12/12/2006       16/23:06       16/23:03       39631783       77.95       10.159       23.47       3.63         12/12/2006       16/23:01       16/23:03       39631783       77.95       10.159       23.47       3.63       12/12/2006       16/23:04       3998	11/25/2006		16:22:15	38449335	77.95	11.788	27.23	7.39
$      1/28/2006 = 16/22/24 = 16/22/3 = 3708544 = 77.95 = 11.798 = 27.25 = 7.41 \\ 11/29/2006 = 16/22/30 = 16/22/3 = 38961753 = 77.95 = 11.389 = 26.31 = 6.47 \\ 12/1/2006 = 16/22/30 = 16/22/30 = 38961753 = 77.95 = 11.389 = 26.31 = 6.47 \\ 12/1/2006 = 16/22/30 = 16/22/30 = 38961753 = 77.95 = 11.328 = 26.17 = 6.33 \\ 12/3/2006 = 16/22/42 = 16/22/42 = 392140559 = 77.95 = 11.241 = 26.68 = 6.42 \\ 12/6/2006 = 16/22/42 = 16/22/42 = 392140559 = 77.95 = 11.241 = 26.36 = 6.52 \\ 12/6/2006 = 16/22/48 = 18/22/43 = 3939768 = 77.95 = 10.59 = 23.31 = 3.47 \\ 12/6/2006 = 16/22/48 = 18/22/43 = 3939768 = 77.95 = 10.59 = 23.31 = 3.47 \\ 12/6/2006 = 16/22/48 = 18/22/43 = 3939768 = 77.95 = 9.866 = 22.84 = 3.00 \\ 12/10/2006 = 16/22/51 = 18/22/53 = 39567574 = 77.95 = 9.866 = 22.84 = 3.00 \\ 12/10/2006 = 16/23/01 = 16/23/03 = 39745380 = 77.95 = 9.866 = 22.84 = 3.00 \\ 12/10/2006 = 16/23/01 = 16/23/03 = 3961783 = 77.95 = 9.866 = 22.84 = 3.00 \\ 12/11/2006 = 16/23/01 = 16/23/03 = 3961783 = 77.95 = 9.866 = 22.84 = 3.00 \\ 12/11/2006 = 16/23/01 = 16/23/03 = 3961783 = 77.95 = 9.866 = 22.84 = 3.00 \\ 12/11/2006 = 16/23/01 = 16/23/03 = 3961783 = 77.95 = 9.866 = 22.84 = 3.00 \\ 12/11/2006 = 16/23/01 = 16/23/03 = 3961783 = 77.95 = 9.866 = 22.84 = 3.00 \\ 12/11/2006 = 16/23/01 = 16/23/03 = 39601783 = 77.95 = 9.866 = 22.84 = 3.00 \\ 12/11/2006 = 16/23/15 = 10/23/94 = 40045899 = 77.95 = 10.199 = 23.47 = 3.63 \\ 12/12/2006 = 16/23/15 = 10/23/94 = 4004589 = 77.95 = 10.199 = 23.47 = 3.63 \\ 12/12/2006 = 16/23/15 = 10/23/12 = 40050201 = 77.95 = 10.68 = 22.80 = 2.90 \\ 12/19/2006 = 16/23/30 = 16/23/30 = 40693410 = 77.95 = 10.32 = 23.85 = 4.01 \\ 12/21/2006 = 16/23/30 = 16/23/30 = 40693410 = 77.95 = 10.32 = 23.85 = 4.01 \\ 12/21/2006 = 16/23/30 = 16/23/30 = 40693410 = 77.95 = 10.32 = 23.85 = 4.01 \\ 12/21/2006 = 16/23/30 = 16/23/30 = 40693410 = 77.95 = 10.32 = 23.85 = 4.01 \\ 12/21/2006 = 16/23/30 = 16/23/30 = 40693410 = 77.95 = 10.32 = 23.85 = 4.01 \\ 12/21/2006 = 16/23/42 = 16/23/42 = 40536902 = 77.95 = 10.32 = 23.85 = 4.01 \\ 12/21/2006 = 16/23/42 = 16/23/42 = 40693691 = $	11/26/2006	16:22:18	16:22:18	38535738	77.95	11.735	27.11	7.27
11/29/2006       16/22/27       16/22/30       16/22/30       16/22/30       11/39/2006       16/22/30       16/22/30       16/22/30       16/22/30       16/22/30       16/22/30       16/22/30       16/22/30       16/22/30       16/22/30       16/22/30       16/22/30       16/22/30       16/22/30       16/22/30       16/22/30       16/22/30       16/22/30       16/22/30       16/22/30       16/22/30       16/22/30       16/22/30       16/22/30       16/22/30       16/22/30       11/21/20/20/20       16/22/42       16/22/43       392/26/96       77.95       11/23       25.95       6.11         12/6/2006       16/22/44       16/22/43       393/9768       77.95       10.031       24/33       4.49         12/10/2006       16/22/51       18/22/53       396/80171       77.95       9.864       2.2.84       3.00         12/10/2006       16/23/03       16/23/03       3974580       77.95       10.159       23.47       3.63         12/14/2006       16/23/16       16/23/16       4004589       77.95       9.668       2.0.43       2.49         12/14/2006       16/23/16       16/23/16       4004589       77.95       9.686       2.0.40       0.44         12/14/2006       16/23/16 </td <td>11/27/2006</td> <td>16:22:21</td> <td>16:22:21</td> <td>38622141</td> <td>77.95</td> <td>11.766</td> <td>27.18</td> <td>7.34</td>	11/27/2006	16:22:21	16:22:21	38622141	77.95	11.766	27.18	7.34
11/30/2006       16:22:30       18:22:33       38881350       '77.95       11.389       26.17       6.45         12//2006       16:22:33       16:22:33       3954156       77.95       11.328       26.17       6.33         12/3/2006       16:22:39       16:22:42       3922426       39226962       77.95       11.231       26.36       6.52         12/5/2006       16:22:44       16:22:43       3931365       77.95       10.51       24.33       4.49         12/6/2006       16:22:44       16:22:45       39572574       77.95       9.861       22.76       2.92         12/9/2006       16:22:54       16:23:00       39631783       77.95       9.866       23.02       3.18         12/10/2006       16:23:00       16:23:03       39631783       77.95       10.159       23.47       3.63         12/14/2006       16:23:03       16:23:03       39631783       77.95       10.159       23.47       3.63         12/14/2006       16:23:04       16:23:09       40045699       77.95       9.866       22.80       2.80       2.80       2.80       2.81       12/14/2006       16:23:15       40045699       77.95       9.868       22.80       2.86	11/28/2006	16:22:24	16:22:24	38708544	77.95	11.798	27.25	7.41
12/1/2006       16:22:33       19:22:36       19:24:85       39:67753       77.95       11:466       26:41       6:33         12/2/2006       16:22:36       19:22:42       16:22:42       39:26962       77.95       11:29       26:08       6:24         12/4/2006       16:22:42       16:22:43       39:3365       77.95       11:23       25:05       6:11         12/6/2006       16:22:44       16:22:44       39:39768       77.95       10.531       24:33       4:49         12/16/2006       16:22:51       19:22:57       39:66877       77.95       9:866       23:02       3:18         12/10/2006       16:23:00       16:23:03       39:63783       77.95       10:159       23:47       3:63         12/11/2006       16:23:01       16:23:02       39:83783       77.95       9:868       22:02       3:18         12/14/2006       16:23:12       10:23:12       40:049992       77.95       9:868       22:02       3:24         12/14/2006       16:23:12       16:23:14       40:23:78       77.95       10:31       23:27       3:4         12/14/2006       16:23:21       40:03:999       77.95       9:868       22:07       2:3       2:02								
12/2/2006         16/22/36         390/4156         77.95         11/28         26.17         6.33           12/3/2006         16/22/42         16/22/42         391/40559         77.95         11/291         26.08         6.24           12/4/2006         16/22/42         16/22/42         392/26962         77.95         11/13         26.36         6.52           12/5/2006         16/22/48         18/22/43         393/39768         77.95         10.09         23.31         3/4           12/7/2006         16/22/51         18/22/53         396/57574         77.95         9.866         22.84         3.00           12/10/2006         16/23/03         16/23/03         397/45380         77.95         9.866         22.84         3.00           12/11/2006         16/23/06         16/23/06         399/1783         77.95         9.66         20.23         3.49           12/14/2006         16/23/15         16/23/16         40/04/589         77.95         9.868         22.33         2.49           12/14/2006         16/23/15         16/23/15         40/04/589         77.95         9.868         2.29         1.33           12/14/2006         16/23/15         16/23/15         40/04/589 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>								
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Date	Time	Date + Time	ET (sec)	Chan[1] Temperatu Fahrenheit		Water Level Above Troll (FT) PSI x 2.31	Actual GW Elevation (FT) (F -19.84)
3/25/2007	16:28:15	16:28:15	48817695	77.95	6.63	15.32	-4.52
3/26/2007	16:28:18	16:28:18	48904098		6.74		
3/27/2007	16:28:21	16:28:21	48990501	77.95	6.579	15.20	
3/28/2007	16:28:24	16:28:24	49076904		6.222	14.37	
3/29/2007	16:28:27	16:28:27	49163307		5.845		
3/30/2007	16:28:30	16:28:30	49249710		5.787	13.37	
3/31/2007	16:28:33	16:28:33	49336113		5.68	13.12	
4/1/2007	16:28:36	16:28:36	49422516		6.03	13.93	
4/2/2007	16:28:39	16:28:39	49508919			14.43	
4/3/2007	16:28:42	16:28:42	49595322				
4/4/2007	16:28:45	16:28:45	49681725				
4/5/2007	16:28:48	16:28:48	49768128				
4/6/2007	16:28:51	16:28:51	49854531	77.95	5.922		
4/7/2007	16:28:54	16:28:54	49940934	77.95	6.054		
4/8/2007	16:28:57	16:28:57	50027337	77.95	6.368	14.71	
4/9/2007	16:29:00	16:29:00	50113740	77.95	6.609	15.27	-4.57
4/10/2007	16:29:03	16:29:03	50200143	77.95	6.162	14.23	-5.61
4/11/2007	16:29:06	16:29:06	50286546	77.95	6.36	14.69	-5.15
4/12/2007	16:29:09	16:29:09	50372949	77.95	6.231	14.39	-5.45
4/13/2007	16:29:12	16:29:12	50459352			15.42	-4.42
4/14/2007	16:29:15	16:29:15	50545755	77.95		15.66	
4/15/2007	16:29:18	16:29:18	50632158				
4/16/2007	16:29:21	16:29:21	50718561	77.95			
4/17/2007	16:29:24	16:29:24	50804964				
4/18/2007	16:29:27	16:29:27	50891367				
4/19/2007	16:29:30	16:29:30	50977770				
4/20/2007	16:29:33	16:29:33	51064173				
4/21/2007	16:29:36	16:29:36	51150576			16.91	
4/22/2007	16:29:39	16:29:39	51236979				
4/23/2007	16:29:42	16:29:42	51323382				
4/24/2007 4/25/2007	16:29:45 16:29:48	16:29:45 16:29:48	51409785 51496188				
4/26/2007	16:29:51	16:29:51	51582591	77.95			
4/27/2007	16:29:54	16:29:54	51668994				
4/28/2007	16:29:57	16:29:57	51755397				
4/29/2007	16:30:00	16:30:00	51841800				
4/30/2007	16:30:03	16:30:03	51928203				
5/1/2007	16:30:06	16:30:06	52014606				
5/2/2007	16:30:09	16:30:09	52101009			16.17	
5/3/2007	16:30:12	16:30:12	52187412	77.95		16.14	
5/4/2007	16:30:15	16:30:15	52273815				
5/5/2007	16:30:18	16:30:18	52360218	77.95	7.648	17.67	-2.17
5/6/2007	16:30:21	16:30:21	52446621	77.95	7.956		
5/7/2007	16:30:24	16:30:24	52533024	77.93	8.349	19.29	-0.55
5/8/2007	16:30:27	16:30:27	52619427	77.93	8.602	19.87	0.03
5/9/2007	16:30:30	16:30:30	52705830	77.95	8.264	19.09	-0.75
5/10/2007	16:30:33	16:30:33	52792233			18.69	
5/11/2007	16:30:36	16:30:36	52878636				
5/12/2007	16:30:39	16:30:39	52965039				
5/13/2007	16:30:42	16:30:42	53051442			18.94	
5/14/2007	16:30:45	16:30:45	53137845				
5/15/2007	16:30:4B	16:30:48	53224248				
5/16/2007	16:30:51	16:30:51	53310651	77. <del>9</del> 3			
5/21/2007	14:00	14:00:00			9.14	21.11	1.27

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#### Lehigh Salt Water Monitoring Plan

The proposed salt water monitoring plan is sub-divided into three (3) parts to reflect the current and proposed Lehigh well field configurations. The three parts are identified as follows:

- 1. The existing WTP 1 Sandstone aquifer well field
- 2. The new WTP 2 Sandstone aquifer well field
- 3. The future, proposed brackish water aquifer well field

This plan addresses the first two (2) parts only. The brackish water aquifer well field, salt water monitoring plan will be developed after the exploratory well, the test/production wells, APT and ground water model/impact analysis are completed and the well field is designed and approved by SFWMD.

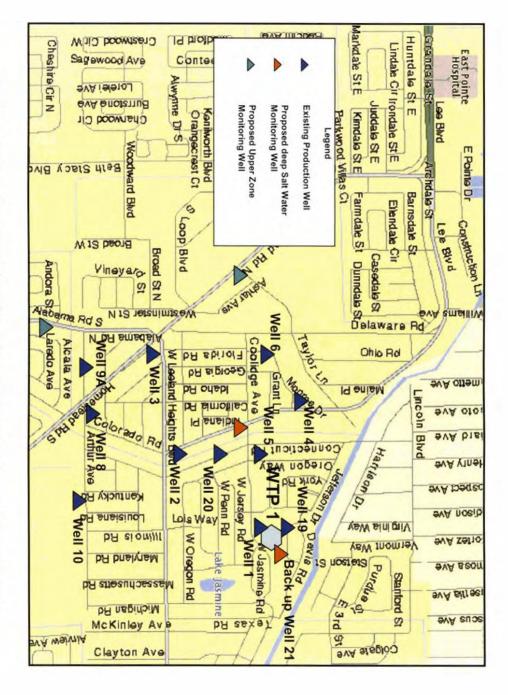
**Table 1** lists the well construction details for the existing WTP 1 Sandstone aquifer well field.

Well No.	Date Constructed	Rate (GPM)	Casing Depth (Ft.)	Total Depth (Ft.)
1	1955	150	50	65
2	1962	150	52	69
3	1970	150	58	68
4	1970	150	50	85
5	1962	150	54	66
6	1970	100	52	62
7	1970	200	57	85
8	1970	250	62	80
9	1970	200	63	80
10	1989	350	55	62
19	1999	200	55	90
20	1999	200	55	90
21	2004	200	55	90

The wells which compromise the WTP 1 Sandstone aquifer well field produce water from the upper Sandstone aquifer which occurs between 50 and 90 feet, below land surface (BLS). The primary concern with regards to saltwater intrusion and subsequent water quality degradation at this well field is from upconing from below. For this reason, the plan consists of constructing a new deep zone monitoring well, located in the approximate center of the well field, where the potential for upconing is the highest, as shown in **Figure 1**. The proposed new deep zone well will be constructed by installing a 4-inch PVC casing to 150 feet and completing the well open hole to a total depth of ~ 175 feet. Water levels will be measured and recorded in May and September each year. In addition, a water sample will be collected at the same time as water levels are measured and analyzed for Chlorides, Conductivity and Total Dissolved Solids.

Although the primary concern for salt water migration at this well field is from upconing, to address the potential for lateral migration of salt water, two (2) additional new monitoring wells are proposed to complete the plan. These wells will be constructed to base of the upper producing zone of the Sandstone aquifer, with wells cased to ~70 feet and completed open hole to ~ 90 feet-BLS. These wells will be located as shown in **Figure 1**. Water level and water quality sampling and analysis will conducted the same as the deep zone monitoring well, twice a year in May and September.

Figure 1- Proposed Salt Water Monitoring Plan- WTP 1 Sandstone Aquifer Well Field



**Table 2** lists the well construction details for the new WTP 2 well field. Although these wells are still under construction, this table reflects the expected construction details and pumping rates for the three (3) wells which comprise the WTP 2 Sandstone aquifer well field

Well No.	Date Constructed	Rate (GPM)	Casing Depth (Ft.)	Total Depth (Ft.)
FGUA 1	2006	300	150	180
FGUA-2	2006	200	150	180
FGUA-3R	2006	200	165	180

Table 2- WTP 2 Sandstone Aquifer Well Information

The primary concern for salt water migration at this well field is by way of lateral migration from those areas within the lower Sandstone aquifer which contain naturally occurring higher concentrations of Chlorides. It is proposed to use existing test wells which were constructed in 2003 as part of a test well program which was conducted in the vicinity of the current WTP 2 (under construction). **Figure 2** illustrates the location of the wells which comprise the new WTP 2 Sandstone aquifer well field. **Figure 2** also shows the location of all of the test wells constructed during the 2003 test well program. During this program, two (2) separate test wells were constructed at each location. One well was completed into the upper producing zone (~50-90 feet-BLS) and one well completed into the lower producing zone (~150-180 feet-BLS) of the Sandstone aquifer. Water levels will be measured and recorded in May and September each year at these three (3) wells. In addition, a water sample will be collected at the same time and analyzed for Chlorides, Conductivity and Total Dissolved Solids.

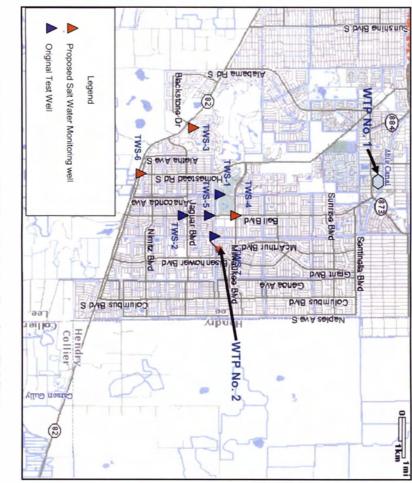


Figure 2 – Proposed Salt Water Monitoring Plan- South Well Field