

Proposed Turkey Point Units 6 and 7  
Docket Nos. 52-040 and 52-041  
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**Enclosure 3**

Florida Power & Light Company Turkey Point Units 6 & 7  
Exploratory Well Project; Permit #0293962-001-UC  
Weekly Construction Summary #60 dated June 29, 2012

## WEEKLY CONSTRUCTION SUMMARY



**McNabb Hydrogeologic Consulting, Inc.**

601 Heritage Drive, Suite 110  
Jupiter, Florida 33458  
Phone: 561-891-0763  
Fax: 561-623-5469

June 29, 2012

MHCDEP-12-0256

Mr. Joseph May, P.G.  
Florida Department of Environmental Protection  
400 N. Congress Ave, Suite 200  
West Palm Beach, FL 33401

**RE: Florida Power & Light Company Turkey Point Units 6 & 7 Exploratory Well  
Project; Permit #0293962-001-UC  
Weekly Construction Summary #60**

Dear Mr. May:

This is the sixtieth weekly construction summary for the above referenced project. The reporting period for this weekly construction summary began at 7:00 AM, Thursday, June 21, 2012 and ended at 7:00 AM, Thursday, June 28, 2012. Consultant and drilling contractor daily reports were prepared for this reporting period. Copies of the consultant and drilling contractor daily construction logs are attached.

During the previous reporting period the drilling contractor completed installing the 16-inch diameter casing to a depth of 1,450 feet below pad level (bpl) and cemented the casing in place in three stages using a total of 443 barrels of cement. The drilling contractor then reamed the interval from 1,450 to 1,850 feet bpl using a 14¾-inch diameter bit before changing to a 12¾-inch diameter bit and drilling the interval from 1,850 to 1,905 feet.

During this reporting period the drilling contractor installed the 6¾-inch diameter casing of DZMW-1 to a depth of 1,860 feet bpl and cemented the casing over the interval from 1,860 to 1,490 feet bpl in three stages using a total of 114.5 barrels of neat cement. Temperature logs were performed after each cement stage as required. The 6¾-inch diameter casing then underwent cement bond logging and was then successfully pressure tested. Copies of the 6¾-inch diameter casing installation summary sheet, casing cementing summary sheet, and pressure test summary sheet are attached. Copies of the composite cement top temperature log and cement bond log are attached. The well was killed with barite during the reporting period. A copy of the daily kill material log is attached.

Successful preliminary and final annular pressure monitoring took place at EW-1. The final annular pressure test was performed in the presence of a Florida Department of Environmental Protection (FDEP) witness. A copy of the EW-1 annular pressure test



summary sheet is attached. The drilling contractor began moving equipment off site during the reporting period in preparation for demobilization from the site.

There was no packer testing, well development or construction related issues at EW-1 and DZMW-1 during this reporting period.

During the next reporting period, it is anticipated that the drilling contractor will continue moving equipment off site, develop both monitoring zones of DZMW-1 and collect monitoring zones background water samples for laboratory analysis.

In addition, sampling of the pad monitor wells around EW-1 and DZMW-1 began on April 21, 2011 and March 20, 2012, respectively, and has been taking place on a weekly basis since the initial samplings. The EW-1 pad monitor wells were most recently sampled on June 28, 2012. The DZMW-1 pad monitor wells were most recently sampled on June 29, 2012. The most recent set of EW-1 pad monitoring well sample results available are for samples collected on June 21, 2012. The most recent set of DZMW-1 pad monitoring well sample results available are for samples collected on June 22, 2012. Copies of the EW-1 and DZMW-1 pad monitor well water quality data summary sheets are attached.

Should you have any questions regarding the above weekly construction summary, please contact David McNabb at (561) 891-0763.

Sincerely,

McNabb Hydrogeologic Consulting, Inc.

David McNabb, P.G.

Attachments: Consultant Daily Construction Log  
Layne Christensen Company-Drilling Shift Report  
EW-1 Pad Monitor Well Water Quality Data Summary Sheets  
DZMW-1 Pad Monitor Well Water Quality Data Summary Sheets  
DZMW-1 6%-Inch Diameter Casing Installation Summary Sheet  
DZMW-1 6%-Inch Diameter Casing Cementing Summary Sheet  
DZMW-1 6%-Inch Diameter Casing Pressure Test Summary Sheet  
DZMW-1 Daily Kill Material Log  
DZMW-1 Geophysical Logs  
EW-1 Annular Pressure Test Summary Sheet

Cc: George Heuler/FDEP-Tallahassee  
Emily Richardson/SFWMD  
Matthew Raffenberg/FPL  
David Holtz/HCE

Joe Haberfeld/FDEP-Tallahassee  
Ron Reese/USGS  
David Paul/FGS



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## Daily Construction Log

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**Date:** June 21, 2012  
**Project:** FPL Turkey Point EW  
**Contractor:** Layne Christensen Company  
**Starting Depth:** 1,905 feet bpl  
**Weather Day:** Cloudy  
**Weather Night:** NA  
**Activity:** Pressure Test at EW-1 and Preparation for FRP Installation at DZMW-1

**FDEP UIC Permit #:** 0293962-001-UC  
**Well No.:** EW-1 and DZMW-1  
**Bit Diameter:** NA  
**Ending Depth:** 1,905 feet bpl  
**Recorded By:** Sally Durall

### CONSTRUCTION ACTIVITIES

- 0700 Yesterday, the drilling contractor completed drilling the interval from 1,852 to 1,905 feet below pad level (bpl), tripped out of the borehole with the 12 1/4-inch diameter drill bit, conducted geophysical logging on the borehole, and then began rigging up for installation of the 6 5/8 fiberglass reinforced pipe (FRP) casing. The drilling contractor is currently preparing for the annular pressure test at EW-1. A preliminary pressure test is currently being conducted prior to the Florida Department of Environmental Protection (FDEP) representative's arrival. The initial pressure for the preliminary test is 160.5 pounds per square inch (psi) and the test began at 0640.
- 0740 The EW-1 preliminary annular pressure test reading after one hour is 157.5 psi which is a pressure loss of 3 psi. The 5% allowable pressure loss is 8 psi.
- 0950 The annular pressure reading is currently 154 psi. The drilling contractor pressurizes the annulus to 161psi.
- 1010 Len Fishkin from the FDEP arrives on site to witness the EW-1 annular pressure test.
- 1025 Begin the final annular pressure test at EW-1. The initial pressure for the final test is 160.5 psi.
- 1055 Florida Spectrum Environmental Services, Inc. is on site to sample the pad monitor wells located around EW-1.
- 1125 The final annular pressure test is complete with a loss of 2 psi in one hour which is within the 5% pressure change allowed by Rule 62-528, F.A.C.
- 1130 The drilling contractor begins to bleed-off the pressure from the annulus and collects the fluid released from the annulus (containing 1% Baracor solution) in a 5-gallon bucket and then transfers to a frac tank.
- 1210 The pressure has been bled-off to 0 psi and approximately 63 gallons of fluid were released from the annulus.
- 1230 The drilling contractor drains approximately 6 gallons of fluid from the annulus through the 2-inch diameter ball valve located on the east side of the 24-inch diameter casing of EW-1. The drained fluid is transferred to the frac tank.
- 1240 The drilling contractor replaces the fluid in the annulus with 5 gallons of Baracor 100 by funneling the fluid through the port on top of the 24-inch diameter stainless steel flange.



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- 1400 The drilling contractor is preparing to install the 6 5/8-inch diameter FRP casing at DZMW-1. Representatives from Future Pipe Industries are on site to install the FRP tubing and are waiting on their equipment to install the casing to arrive on site.
- 1545 The equipment for Future Pipe to install the FRP casing has not arrived on site. The drilling contractor expects the casing installation to begin tomorrow morning at 0700 if the equipment arrives later today.





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## Daily Construction Log

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**Date:** June 22, 2012  
**Project:** FPL Turkey Point EW  
**Contractor:** Layne Christensen Company  
**Starting Depth:** 1,905 feet bpl  
**Weather Day:** Mostly Rain  
**Weather Night:** NA  
**Activity:** DZMW-1 FRP Casing Installation

**FDEP UIC Permit #:** 0293962-001-UC  
**Well No.:** DZMW-1  
**Bit Diameter:** NA  
**Ending Depth:** 1,905 feet bpl  
**Recorded By:** Sally Durall

### CONSTRUCTION ACTIVITIES

- 0700 The drilling contractor performed a successful final annular pressure test at EW-1 and prepared to install the 6 5/8-inch diameter fiberglass reinforced pipe (FRP) at DZMW-1 yesterday. Today, the drilling contractor is preparing to begin to install the FRP casing with a California packer installed at the base of the casing to a depth of 1,860 feet below pad level (bpl). Representatives from Future Pipe Industries are on site to install the FRP casing.
- 0745 The drilling contractor picks up the first casing joint and begins to thread the California packer to the base of the casing joint.
- 0805 The first casing joint with the California packer attached has been installed.
- 0840 Three casing joints have been installed and the drilling contractor has stopped the casing installation to transfer the fluids containing Baracor from the frac tank to a tanker truck.
- 0915 The drilling contractor begins to transfer the fluids from the frac tank to the tanker for disposal off-site. Temporary containment pads are placed at both ends of the hose connections.
- 0950 The fluid transfer of approximately 5,500 gallons is complete.
- 1000 The drilling contractor resumes the installation of the FRP casing.
- 1110 The drilling contractor has installed eleven FRP casing joints.
- 1145 Florida Spectrum Environmental Services, Inc. is on site to sample the pad monitor wells located around the DZMW-1 drilling site.
- 1230 The drilling contractor has installed nineteen FRP casing joints.
- 1400 The drilling contractor has installed thirty FRP casing joints.
- 1500 The drilling contractor has installed forty FRP casing joints.
- 1600 The drilling contractor has installed forty-seven FRP casing joints.
- 1645 A total of forty-eight FRP casing joints have been installed today.
- 1700 The drilling contractor will resume the casing installation tomorrow morning at 0700.



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## Daily Construction Log

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**Date:** June 23, 2012  
**Project:** FPL Turkey Point EW  
**Contractor:** Layne Christensen Company  
**Starting Depth:** 1,905 feet bpl  
**Weather Day:** Cloudy, Rain  
**Weather Night:** Cloudy, Rain  
**Activity:** FRP Casing Installation and Cementing

**FDEP UIC Permit #:** 0293962-001-UC  
**Well No.:** DZMW-1  
**Bit Diameter:** NA  
**Ending Depth:** 1,905 feet bpl  
**Recorded By:** Sally Durall

### CONSTRUCTION ACTIVITIES

- 0700 The drilling contractor began the installation of the 6 5/8-inch diameter fiberglass reinforced pipe (FRP) at DZMW-1 yesterday. Forty-eight casing joints were installed by the end of the day.
- 0745 The drilling contractor resumes the FRP casing installation.
- 0835 The drilling contractor has installed fifty-eight FRP casing joints.
- 0900 The drilling contractor has installed sixty-two FRP casing joints and currently installing the stainless steel coupling for the stainless steel transition casing.
- 0925 The drilling contractor begins welding the stainless steel transition casing joint. Ed McCannon is the welder on site. The welder's certification was previously submitted by the drilling contractor and accepted.
- 1000 Verify the 2 3/8-inch diameter cement pipe tally with the drilling contractor.
- 1015 The casing is lowered in the borehole. The base of the California packer is at the depth of 1,860 feet below pad level (bpl).
- 1100 The welder begins to weld the annular plate and gussets.
- 1255 The drilling contractor begins to trip inside the annulus with the cement tremie pipe.
- 1430 The drilling contractor continues to trip inside the annulus with the cement tremie pipe.
- 1530 The drilling contractor has completed tripping inside the annulus with the cement tremie pipe. The base of the tremie pipe is at a depth of 1,850 feet bpl. The drilling contractor plans to pump 2 barrels of neat cement to establish a seal.
- 1615 The drilling contractor pressurizes the California packer to approximately 100 pounds per square inch (psi). The drilling contractor will maintain the pressure at 100 psi until two small cement stops are completed.
- 1655 The drilling contractor begins to pump the first small cement spot.
- 1700 The drilling contractor pumped two barrels of neat cement.
- 2130 The drilling contractor is preparing to tag the top of the first cement spot.
- 2150 The top of cement is tagged at the depth of 1,836 feet bpl. The drilling contractor plans to pump four barrels of neat cement.
- 2240 The drilling contractor pumped 4.1 barrels of neat cement.
- 2315 The drilling contractor plans to tag the top of cement at 0700 tomorrow morning.





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## Daily Construction Log

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**Date:** June 24, 2012  
**Project:** FPL Turkey Point EW  
**Contractor:** Layne Christensen Company  
**Starting Depth:** 1,905 feet bpl  
**Weather Day:** Cloudy, Warm  
**Weather Night:** Cloudy, Windy  
**Activity:** Cementing

**FDEP UIC Permit #:** 0293962-001-UC  
**Well No.:** DZMW-1  
**Bit Diameter:** NA  
**Ending Depth:** 1,905 feet bpl  
**Recorded By:** Sally Durall

### CONSTRUCTION ACTIVITIES

- 0700 The drilling contractor completed the installation of the 6 5/8-inch diameter fiberglass reinforced pipe (FRP) at DZMW-1 to the depth of 1,860 feet below pad level (bpl), and pumped two cement spots to establish a cement seal on top of the California packer yesterday. The drilling contractor is currently preparing to tag the top of cement.
- 0710 The top of cement is tagged at the depth of 1,808 feet bpl. The drilling contractor plans to pump 67 barrels of neat cement for cement stage 1.
- 0725 The drilling contractor begins to pump cement stage 1.
- 0747 The cementing of stage 1 is complete using 67 barrels of neat cement.
- 0900 The drilling contractor has scheduled the temperature logging for cement stage 1 at 1400 this afternoon.
- 1330 The drilling contractor is preparing to perform temperature logging for cement stage 1.
- 1350 The drilling contractor begins to trip inside the 6 5/8-inch diameter FRP casing with the temperature logging tool.
- 1415 Interpretation of the temperature log suggests the top of cement for stage 1 at the depth of approximately 1,590 feet bpl.
- 1500 The drilling contractor tags the top of cement using the cement tremie pipe at the depth of 1,617 feet bpl.
- 1545 The drilling contractor begins to pump cement stage 2. The cement plan is to pump 35 barrels of neat cement.
- 1600 The cementing of stage 2 is complete using 35 barrels of neat cement.
- 1630 The drilling contractor has scheduled the temperature logging for cement stage 2 at 2200 this evening.
- 2130 The drilling contractor is preparing to perform temperature logging for cement stage 2.
- 2150 The drilling contractor begins to trip inside the 6 5/8-inch diameter FRP casing with the temperature logging tool.
- 2205 Interpretation of the temperature log suggests the top of cement for stage 2 at the depth of 1,534 feet bpl.
- 2225 The drilling contractor begins to trip the remaining tremie pipe out of the annulus to verify the tally before cementing stage 3.
- 2345 The cement tremie pipe has been tripped out of the annulus and the tally is verified with the drilling contractor.



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- 0000 The drilling contractor trips back in the annulus with the cement tremie pipe.
- 0110 The drilling contractor tags the top of cement stage 2 using the cement tremie pipe at the depth of 1,533 feet bpl.
- 0140 The drilling contractor begins to pump cement stage 3. The cement plan is to pump 12.5 barrels of neat cement.
- 0150 The cementing of stage 3 is complete using 12.5 barrels of neat cement.
- 0200 The drilling contractor has scheduled the temperature logging for cement stage 3 at 0700 tomorrow morning.



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## Daily Construction Log

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**Date:** June 25, 2012  
**Project:** FPL Turkey Point EW  
**Contractor:** Layne Christensen Company  
**Starting Depth:** 1,905 feet bpl  
**Weather Day:** Cloudy, Windy  
**Weather Night:** NA  
**Activity:** Preparing for DZMW-1 Pressure Test

**FDEP UIC Permit #:** 0293962-001-UC  
**Well No.:** DZMW-1  
**Bit Diameter:** NA  
**Ending Depth:** 1,905 feet bpl  
**Recorded By:** Sally Durall

### CONSTRUCTION ACTIVITIES

- 0700 The drilling contractor pumped 3 cement stages of cement between the base of the 6 5/8-inch diameter fiberglass reinforced pipe (FRP) and the depth of 1,500 feet below pad level (bpl) yesterday. The drilling contractor is currently preparing to perform temperature logging and tag the top of cement for cement stage 3.
- 0705 The drilling contractor begins to trip inside the 6 5/8-inch diameter FRP casing with the temperature logging tool.
- 0715 Interpretation of the temperature log suggests the top of cement for stage 3 at the depth of 1,496 feet bpl.
- 0815 The top of cement is tagged at the depth of 1,490 feet bpl.
- 0830 The drilling contractor begins to trip the cement tubing out of the annulus.
- 0945 The drilling contractor completes tripping the cement tubing out of the annulus.
- 1200 The drilling contractor is performing general site maintenance and preparing the site for demobilization.
- 1400 The drilling contractor begins to pressurize the 6 5/8-inch diameter FRP in preparation for a casing pressure test.
- 1600 The drilling contractor continues to prepare the site for demobilization. There will be no work performed during the night shift.





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## Daily Construction Log

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**Date:** June 26, 2012  
**Project:** FPL Turkey Point EW  
**Contractor:** Layne Christensen Company  
**Starting Depth:** 1,905 feet bpl  
**Weather Day:** Cloudy, Windy  
**Weather Night:** NA  
**Activity:** Prepare for Pressure Test and Geophysical Logging, and Demobilization

**FDEP UIC Permit #:** 0293962-001-UC  
**Well No.:** DZMW-1  
**Bit Diameter:** NA  
**Ending Depth:** 1,905 feet bpl  
**Recorded By:** Sally Durall

### CONSTRUCTION ACTIVITIES

- 0730 The drilling contractor completed cementing the 6 5/8-inch diameter fiberglass reinforced pipe (FRP) between the top of the lower monitor zone and the base of the upper monitor zone at DZMW-1 yesterday. The drilling contractor has pressured up the FRP casing in an attempt to perform a pressure test but the plug in the base of the California packer is not holding pressure. The drilling contractor is also demobilizing various equipment items off site today.
- 0930 The drilling contractor blows out the shear plate in the base of the California packer by pressurizing the casing. The shear plate releases at 400 pounds per square inch (psi). The final pressure will be conducted by the installation of an inflatable packer.
- 1000 The drilling contractor begins to trip inside the FRP casing with 2 3/8-inch diameter tremie pipe to the bottom of the open hole to clean out the bottom of the hole.
- 1210 The drilling contractor has tripped to the bottom of the hole with the tremie pipe.
- 1220 The drilling contractor begins to clean out the bottom of the borehole.
- 1300 Cleaning out the bottom of the borehole continues.
- 1430 Cleaning out the bottom of the borehole continues.
- 1500 Cleaning out the bottom of the borehole has been completed.
- 1700 The drilling contractor continues to demobilize various equipment items off site. There will be no construction activity during the night shift.



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## Daily Construction Log

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**Date:** June 27, 2012  
**Project:** FPL Turkey Point EW  
**Contractor:** Layne Christensen Company  
**Starting Depth:** 1,905 feet bpl  
**Weather Day:** Partly Cloudy, Windy  
**Weather Night:** NA  
**Activity:** Geophysical Logging and Pressure Testing

**FDEP UIC Permit #:** 0293962-001-UC  
**Well No.:** DZMW-1  
**Bit Diameter:** NA  
**Ending Depth:** 1,905 feet bpl  
**Recorded By:** Sally Durall

### CONSTRUCTION ACTIVITIES

- 0730 The drilling contractor cleaned out the borehole of DZMW-1 in preparation for video logging of the well. Today, the drilling contractor plans to perform cement bond logging (CBL) and a video of the completed well, and perform a pressure test with an inflatable packer.
- 0740 The geophysical logger is on site.
- 0810 The drilling contractor begins to trip inside the FRP casing with the video camera tool.
- 0825 The turbidity is too high to get a quality video beyond the depth of 330 feet below pad level (bpl). The drilling contractor runs the video camera tool to near the bottom of the open borehole and the turbidity is too high throughout the casing and open hole. The video of the completed well will be performed when the development of the well and the background water quality collection has been completed.
- 0945 The drilling contractor begins to trip inside the FRP casing with CBL tool and calibrates the tool within the free pipe (non-cemented).
- 1030 The drilling contractor begins performing the CBL from the depth of 1,860 feet bpl.
- 1105 The CBL has been completed.
- 1115 The drilling contractor is in the process of killing the well so the header can be cut off to run inside the FRP with the inflatable packer.
- 1200 The drilling contractor begins to cut off the header plate.
- 1240 The drilling contractor successfully tested the inflatable packer at the top of the FRP casing.
- 1325 The drilling contractor begins to trip inside the FRP casing with the inflatable packer.
- 1545 The drilling contractor has completed tripping inside the FRP with the inflatable packer and rigging up to perform a pressure test on the FRP. The centerline of the packer is at a depth of 1,844 feet bpl.
- 1600 The inflatable packer has been pressurized to 320 pounds per square inch (psi).
- 1615 The drilling contractor has pressurized the FRP casing to 159 psi.
- 1625 The drilling contractor bleeds-off pressure to release any air that may be in the lines.
- 1630 Begin a preliminary pressure test. The initial pressure is 151.5 psi.
- 1700 The pressure has remained at 151.5 psi for 30 minutes. Begin the final pressure test on the FRP casing. The initial pressure is 151.5 psi.





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- 1800 The final pressure test is complete with a final pressure of 151.5 psi. The allowable pressure gain or loss of 5 % in a one hour test is 7.58 psi. The pressure test meets the criteria. A total of 3 gallons of water was released during the pressure bleed-off performed at the end of the test.
- 1830 The drilling contractor has secured the site. There will be no construction activities on site during the night shift.

**LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT**

Proposed Turkey Point Units 6 and 7  
Docket Nos. 52-040 and 52-041  
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DATE 6-21-12  
Thurs. Days

JOB # 11771-1405-10000  
LOCATION Turkey Point

JOBSITE LOCATION JUVEY POINT

## CLIENT

JORSITE NAME

## PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
DRILL MUE	Michael A. Roar'vaz	45	12		12
BF	Bob Feetham	45	12		12
VI	Vlad Ishimov	45	12		12

#### MATERIALS USED WEDNESDAY

Quantity	Description
	Safety Meetings
	① Open hole Awareness
	② Running list of GSS
	PPE, slip tripping falls, high pressure lines, proper power tool usage, ladder Safety.

## COMMENTS - EVENTS - LIMITATIONS - CHANGES - OTHER INFORMATION

Clear/clean off Rig floor, Prep for IW-1 pressure test. Help welder on MW-1. Monitor water level in MW-1. Disposed of water from <sup>IW-1</sup> well into Fract tank. Rig down IW-1 pressure test, unplug shaker wires/plugs roll up for transport, Mod skid pumps, wires, rig down. Rig up & prep for FRP run. Pressure test start 160.5 psi, end 182.5 psi

M. R.

6/2/12

Client's Signature \_\_\_\_\_

**244**

### Legend & Symbols

**Drugs**

**EXPERIMENT DEPENDENT TOOLS**

Description		Unit #	Status
FDW 200		28609	W/K
89 Made Dump		18000	SB
Cement Unit		28445	
Working	W/K	Mobilization	MB
Standby	SB	Demobilization	DM
Down in Shop	DS	Available in Yard	AY
Down on Site	DN	Available on Job	AV

## TIME OF ACTIVITY OF STIMULI

[illegible]

## DAILY ACCOUNTING OF ACTIVITIES BY ITEM 1

Serial	Cost Code	Labour Activity	Amount
1	10000	Short Duration Job	
2	11000	Cracks/Water/Treatment	
3	12100	Asph Preparation	
4	12200	Subsoil Blasting	
5	0005	Training - Overhead	
6	0008	Weg - (Overhead)	
7	0009	Watermain - Overhead	
8	12250	Training - 100' Long/active	
9	10300	Site Clean up	
10	12300	Install Guard Walls	
11	12400	Install Damage Pad	
12	12500	Install Surface Curing	
13	12500	Install Roadway & Driv Pad	
14	12600	Test Hole Drilling	
15	12110	Geophysical Logging & Other Testing	
16	12110	Asphote Zone Testing	
17	12200	Blockade Work/overhead	
18	12610	Procedures/Work procedures	
19	13110	Install Conductor Pipe	
20	13120	Drill Pilot Hole	
21	12100	Geophysical Logging & Other Testing	
22	14250	Asphote Zone Testing	
23	13300	Blockade Work/overhead/Overhead Plug	
24	13110	Reaming	
25	13300	Under Reaming	
26	13410	Install Casing	
27	13510	Install Screen	
28	13514	Install Pack The Well	
29	13600	Install Abandon Well	
30	13610	Water Watching	
31	14000	Well Sealing on Air Lift and Seab	
32	14110	Disposal of Ruds & Cuttings	
33	14110	Furnish & Install Test Pump and Discharge	
34	14210	Displacement Pumping	
35	14210	Test Pumping	
36	14410	Reinjection and Observation	
37	14500	Offsite Activities Abandonment	
38	15000	Weg	
39	15100	Access Road	
40	15150	Other Activities Storage	
41	15000	Working for Test/Screen Testing	
42	15000	Change Under Activities	
43	00000	Equipment Repairs	
44	00070	Guaranty	
45	00000	Adv. Tag/Overhead	
		Launch	
		TOTAL HOURS	







**Case 1**



# LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT EDP Proposed Turkey Point Units 6 and 7  
 JOBSITE NAME MW-1 Docket Nos. 52-040 and 52-041  
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DATE 6-22-12  
SAT - N' FRI NIGHT

JOB # 11771-1405-10000  
 JOBSITE LOCATION T.P.

## PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
Driller	BOSIT GULOMOV	45	11		11
V.M.	VICTOR MOISEYEV	45	12		12
I.L.I.	KHUSAN ISMATULLAEV	45	12		12

## EQUIPMENT DEPLOYED TODAY

Description	Unit #	Status
EDW-200	2860	W/K
1989 DITCH	1800	S/B
DUMP TRUCK		
CEMENT	2846	
UNIT		S/B
Working	WB	Mobilization MB
Standby	SB	Demobilization DM
Down in Shop	DS	Available in Yard AY
Down on Site	DN	Available on Job AV

## DAILY ACCOUNTING OF ACTIVITIES BY ITEM #

Item #	Cost Code	Labor Activity	Hours
1	1000	Short Duration on Job	
2	1100	Onsite Mob/Demob	
3	1110	Job Preparation	
4	1120	Safety Meeting	
5	0005	Training - Overhead	
6	0006	Shop - Overhead	
7	0007	Maintenance - Overhead	
8	1125	Training - Job Chargeable	
9	1130	Site Clean up	
10	1135	Instal Sound Walls	
11	1140	Instal Decon Pad	
12	1145	Instal Surface Casing	
13	1150	Instal Roadway & Drill Pad	
14	1205	Test Hole Drilling	
15	1210	Geophysical Logging & Other Testing	
16	1215	Aquifer Zone Testing	
17	1220	Wellbore Abandonment	
18	1305	Production Well Installation	
19	1310	Instal Conductor Pipe	
20	1115	Instal Pilot Hole	
21	1320	Geophysical Logging & Other Testing	
22	1325	Aquifer Zone Testing	
23	1330	Wellbore Abandonment/Cement Plugs	
24	1335	Grouting	
25	1340	Under Reaming	
26	1345	Instal Casing	
27	1350	Instal Screen	
28	1355	Gravel Pack The Well	
29	1360	Instal Annular Seal	
30	1365	Water Washing	
31	1405	Well Development Air Lift and Swab	
32	1410	Disposal of Muds & Cuttings	
33	1415	Furnish & Install Test Pump and Discharge	
34	1420	Development Pumping	
35	1425	Test Pumping	
36	1430	Disinfection and Chlorination	
37	1805	Offsite Activities Mob/Demob	
38	1910	Shop	
39	1915	Administration	
40	1950	Other Activities Standby	
41	1960	Waiting for Lost/Broken Tooling	
42	1965	Change Order Activities	
43	8800	Equipment Repairs	
44	9017	Damages	
45	9020	Job Support/endent	
		Lunch	
TOTAL HOURS			

## MATERIALS USED TODAY

Quantity	Description
	SAFETY MTG:
	CASING RUN:
	HOUSEKEEPING:

## TIME OF ACTIVITY BY ITEM #

From	To	Circle One	Item #
		AM PM	
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		AM PM	
		AM PM	

## COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

SITE CLEAN up: HOUSEKEEPING:

Supervisor's Signature [Signature] Date 6-22-12  
 Payroll [Signature] Date 6-22-12  
 Supervisor's Signature [Signature] Date 6-22-12



11. **Answer: A**



**LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT**

**QUEST**

JOBSTE NAME

Proposed Turkey Point Units 6 and 7  
Docket Nos. 52-040 and 52-041  
E-2012-273 Enclosure 3 Page 19 of 53

DATE \_\_\_\_\_

6-23-12  
SAT NIGHT

## JOB

**JOB SITE LOCATION**

117 21-1405-(0000)

DAILY ACCOUNTING OF ACTIVITIES IN ITEM 1

#### PERSONNEL EMPLOYED TODAY

## COMPANY BEHIND TODAY

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
NR/12	BOS. I GULOMOV	45	12		12
AID	ANDREY POPOV	45	8		8
V. M	VICTOR MOISEYEV	45	12		12
K. I	KHUSAN ISMATULLAEV	45	12		12

### MATERIALS USED TODAY

Quantity	Description
	SAFETY MTC:
	HIGH PRESS LINE:
	PUMP CEMENT:
	HAND SAFETY:
	PPE: H.I.R.A;

DATE OF ACQUISITION BY LIBRARY

[illegible]

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

TAC CEMENT 10:00 pm. TAC @ 1836' BPL: pump  
CEMENT 4 BBL NEAT. HOUSEKEEPING:

Item #	Cost Code	Latent Activity	Hours
1	11000	Water Distribution Area	
2	11100	Drainage Study/Design	
3	11150	Job Preparation	
4	11200	Safety Meeting	
5	0005	Drinking - Onsite	
6	0006	Wash - Onsite	
7	0007	Maintenance - Onsite	
8	11250	Training - Job Completion	
9	11300	Site Cleanup	
10	11350	Install Sound Walls	
11	11400	Install Decking/Pav	
12	11450	Install Surface Casing	
13	11500	Install Roadway & Ditch Pad	
14	12000	Test Hole Drilling	
15	12100	Geophysical Logging & Other Testing	
16	12150	Applied Zone Testing	
17	12200	Baseline Measurement	
18	12300	Production Well Installation	
19	12400	Install Collector Pipe	
20	12450	Wellhead Field	
21	12500	Geophysical Logging & Other Testing	
22	12550	Applied Zone Testing	
23	12600	Baseline Measurement/Construction Flags	
24	12650	Reaming	
25	12700	Under Drilling	
26	12750	Install Casing	
27	12800	Install Screen	
28	12850	Gravel Pack The Well	
29	12900	Install Hydraulic Seal	
30	12950	Water Washing	
31	13000	Well Development Air Lift and Swab	
32	14000	Prequal of Hydraulic Clogging	
33	14100	Finalize Install Test Pump and Discharge	
34	14200	Development Pumping	
35	14250	Test Pumping	
36	14300	Installation and Commissioning	
37	14350	Offsite Activities Mail/Reports	
38	14400	Site	
39	14450	Administrative	
40	14500	Offsite Activities Monthly	
41	14600	Finalize Installation Testing	
42	14650	Change Order Activities	
43	14700	Equipment Repair	
44	14750	Drawings	
45	14800	Job Summary/Report	
		Lunch	
		TOTAL HOURS	

\_\_\_\_\_  
 Initiator's Signature Date 6.23.17

**Client's Signature**

100

### It's a reviewer's signature

**Salmon**





## LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT **FPL**JOBSITE NAME **Mw-1**Proposed Turkey Point Units 6 and 7  
Docket Nos. 52-040 and 52-041  
L-2012-273 Enclosure 3 Page 20 of 53DATE **6-24-12**  
**Sunday Day**JOB # **11771.1405.10000**JOBSITE LOCATION **Turkey Point**

## PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee - Full Name	Per Diem? (K)	Onsite Hours	Offsite Hours	Total Hours
<b>DRILL MNR</b>	<b>Michael A. Ramirez</b>	45	12		12
<b>VF</b>	<b>Ulad Ishimov</b>	45	12		12
<b>JM</b>	<b>James McDonnell</b>	45	12		12
<b>JN</b>	<b>Juan Nieto</b>	45	12		12
<b>PV</b>	<b>Paul Vaughn</b>	45	12		12
<b>B</b>	<b>Bob Feerham</b>	45	12		12

## EQUIPMENT DEPLOYED TODAY

Description	Unit #	Status
<b>ADW-200</b>	<b>28605</b>	<b>WK</b>
<b>84 Mack Dump</b>	<b>18000</b>	<b>WK</b>
<b>Cement Unit</b>	<b>280145</b>	<b>WK</b>
Working	WK	Mobilization MB
Standby	SB	Demobilization DM
Down in Shop	DS	Available in Yard AY
Down on Site	DN	Available on Job AV

## DAILY ACCOUNTING OF ACTIVITIES BY ITEM #

Item #	Cost Code	Labor Activity	Hours
1	10000	Short Duration Job	
2	11100	Onsite Mob/Demob	
3	11150	Job Preparation	
4	11200	Safety Meeting	
5	0005	Training - Overhead	
6	0006	Shop - Overhead	
7	0007	Maintenance - Overhead	
8	11250	Training - Job Chargeable	
9	11300	Site Clean up	
10	11350	Install Sound Walls	
11	11400	Install Decon Pad	
12	11450	Install Surface Casing	
13	11500	Install Roadway & Drill Pad	
14	12050	Test Hole Drilling	
15	12100	Geophysical Logging & Other Testing	
16	12150	Aquifer Zone Tooling	
17	12200	Wellbore Abandonment	
18	13050	Production Well Installation	
19	13100	Install Conductor Pipe	
20	13150	Drill Pilot Hole	
21	13200	Geophysical Logging & Other Testing	
22	13250	Aquifer Zone Tooling	
23	13300	Wellbore Abandonment/Cement Plugs	
24	13350	Reaming	
25	13400	Under Reaming	
26	13450	Install Casing	
27	13500	Install Screen	
28	13550	Gravel Pack the Well	
29	13600	Install Annular Seal	
30	13650	Water Washing	
31	14050	Well Development Air Lift and Swab	
32	14100	Disposal of Fluids & Cuttings	
33	14150	Furnish & Install Test Pump and Discharge	
34	14200	Development Pumping	
35	14250	Test Pumping	
36	14300	Disinfection and Chlorination	
37	19050	Offsite Activities Mob/Demob	
38	19100	Shop	
39	19150	Administration	
40	19550	Other Activities Standby	
41	19600	Fishing for Lost/Broken Tooling	
42	19650	Change Order Activities	
43	80000	Equipment Repairs	
44	90170	Damages	
45	90200	Job Superintendent	
		Lunch	
TOTAL HOURS			

## MATERIALS USED TODAY

Quantity	Description
	<b>Safety Meetings</b> (13 Dump trucks Hauled)
	<b>1 Tagging &amp; Pumping Cement</b>
	<b>2 Confined Space</b>
	<b>Slips (consumers) pinch points, overhead dangers</b>
	<b>High pressure lines, Portland type II cement</b>

## TIME OF ACTIVITY BY ITEM #

From	To	Circle One	Item #
		AM PM	
		AM PM	
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		AM PM	

## COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

Tag cement at 1808'. Pump 6 bbls next. Wait on Cement. Clean out slurry with Dump trucks, clean Rig pad floor out. Run 13 Dumps. Pull Sump Pump reattach Base & check Rotation, Rotation Good. Temp log, help logger. Temp log at 1590'. Tag at 1817' bbl. Pump 35 bbls next. Wait on Cement...

N. Ramirez

6-24-12

Client's Signature

Layne

Date

K. G. real

Supervisor's Signature

6-24-12

Date









## LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

Page 1 of 2

CLIENT **FPL**  
JOB SITE NAME **MW-1**Proposed Turkey Point Units 6 and 7  
Docket Nos. 52-040 and 52-041  
L-2012-273 Enclosure 3 Page 22 of 53DATE **6/25/12**  
**Monday Days**JOB # **11771.1405.10000**  
JOB SITE LOCATION **Turkey Point**

## PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
BR	Michael A. Ramirez	45	12		12
BC	Bill Crossley	45	12		12
VI	Vlad Ishimov	45	10		10
BF	Bob Feetham	45	10		10
JM	James McDonnell	45	12		12
AV	Paul Vaughn	45	12		12
JN	Juan Nieto	45	12		12

## MATERIALS USED TODAY

Quantity	Description
	① tripping tubing
	② BP COMING Rig Move / Rig Down
	PPE, overhead dangers, slip trip fall, HIRA, proper tool usage,

## EQUIPMENT DEPLOYED TODAY

Description	Unit #	Status
ADW-200	286054	YR
'84 Mack Dump	18000	SB
Cement unit	28145	SB
Working	WK	Mobilization MB
Standby	SB	Demobilization DM
Down in Shop	DS	Available in Yard AY
Down on Site	DN	Available on Job AV

## TIME OF ACTIVITY BY ITEM #

From	To	Clicks On	Item #
		AM PM	
		AM PM	
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## DAILY ACCOUNTING OF ACTIVITIES BY ITEM #

Item #	Cost Code	Labor Activity	Hours
1	10000	Short Duration Job	
2	11100	Onsite Mob/Demob	
3	11150	Job Preparation	
4	11200	Daily Meeting	
5	0005	Training - Overhead	
6	0006	Shop - Overhead	
7	0007	Maintenance - Overhead	
8	11250	Training - Job Chargeable	
9	11300	Site Clean up	
10	11350	Install Sound Walls	
11	11400	Install Decom Pad	
12	11450	Install Surface Casing	
13	11500	Install Roadway & Drill Pad	
14	12050	Test Hole Drilling	
15	12100	Geophysical Logging & Other Testing	
16	12150	Aquifer Zone Testing	
17	12200	Borehole Abandonment	
18	13050	Production Well Installation	
19	13200	Install Conductor Pipe	
20	13150	Drill Pilot Hole	
21	13200	Geophysical Logging & Other Testing	
22	13250	Aquifer Zone Testing	
23	13300	Borehole Abandonment/Cement Plugs	
24	13350	Grouting	
25	13400	Under Reaming	
26	13450	Install Casing	
27	13500	Install Screen	
28	13550	Gravel Pack the Well	
29	13600	Install Annular Seal	
30	13650	Water Washing	
31	14050	Well Development Air Lift and Swab	
32	14100	Disposal of Fluids & Cuttings	
33	14150	Furnish & Install Test Pump and Discharge	
34	14200	Development Pumping	
35	14150	Test Pumping	
36	14300	Disinfection and Chlorination	
37	10050	Offsite Activities Mob/Demob	
38	19100	Shop	
39	10150	Administration	
40	19550	Other Activities Standby	
41	19600	Fishing for Lost/Broken Tooling	
42	19650	Change Order Activities	
43	88000	Equipment Repairs	
44	90170	Damages	
45	90200	Job Superintendent	
		Lunch	
TOTAL HOURS			

## COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

Temp log, help logger, Tag Cement at 1490'. Trip out 2 3/4 cement tubing... Wait on orders. BP Highlands Job site Meeting. Assemble Mission Magnum pump rebuild kit, fix pump. Pressure up FPR prep for pressure test.

M. Ramirez  
Inspector's Signature6/25/12  
Date

Client's Signature

LAYNE

Date

Inspector's Signature

Karl Sur  
Date





## LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT **FPL**JOBSITE NAME **MW-1**

Proposed Turkey Point Units 6 and 7

Docket Nos. 52-040 and 52-041

L-2012-273 Enclosure 3 Page 23 of 53

DATE

**6-26-12**  
**Tues. Days**

JOB #

**10721.1405.10000**

JOBSITE LOCATION

**Turkey Point.**

## PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
AWK	Michael A. Ramirez	45	12		12
BC	Bill Crossley	45	12		12
JU	Juan Nieto	45	12		12
PV	Paul Vaughn	45	12		12
JM	James McDonnell	45	12		12
BF	Bob Freeman	45	12		12

## EQUIPMENT DEPLOYED TODAY

Description	Unit #	Status
FDW-200 w/c	28609	
8x Mack Dump S/B	18000	
Cement mixer S/B	28145	
Working	WK	Mobile/Station
Standby	SB	Demobilization
Down in Shop	DS	Available in Yard
Down on Site	DM	Available on Job

## DAILY ACCOUNTING OF ACTIVITIES BY ITEM #

Item #	Cost Code	Labor Activity	Hours
1	10000	Short Duration Job	
2	11100	Onsite Mob/Demob	
3	11150	Job Preparation	
4	11200	Safety Meeting	
5	0005	Training - Overhead	
6	0006	Shop - Overhead	
7	0007	Maintenance - Overhead	
8	11250	Training - Job Chargeable	
9	11300	Site Clean up	
10	11350	Install Sound Walls	
11	11400	Install Decan Pad	
12	11450	Install Surface Casing	
13	11500	Install Roadway & Drill Pad	
14	12050	Test Hole Drilling	
15	12100	Geophysical Logging & Other Testing	
16	12150	Aquifer Zone Testing	
17	12200	Wellhole Abandonment	
18	13050	Production Well Installation	
19	13100	Install Conductor Pipe	
20	13150	Drill Pilot Hole	
21	13200	Geophysical Logging & Other Testing	
22	13250	Aquifer Zone Testing	
23	13300	Wellhole Abandonment/Content Plugs	
24	13350	Reaming	
25	13400	Under Reaming	
26	13450	Install Casing	
27	13500	Install Screen	
28	13550	Gravel Pack The Well	
29	13600	Install Annular Seal	
30	13650	Water Watching	
31	14050	Well Development Air Lift and Swab	
32	14100	Disposal of Fluids & Cuttings	
33	14150	Furnish & Install Test Pump and Discharge	
34	14200	Development Pumping	
35	14250	Test Pumping	
36	14300	Disinfection and Chlorination	
37	15050	Offsite Activities Mob/Demob	
38	15100	Shop	
39	15150	Administration	
40	15550	Other Activities Standby	
41	19600	Fishing for Lost/Broken Tooling	
42	19650	Change Order Activities	
43	88000	Equipment Repairs	
44	90170	Damages	
45	90200	Job Superintendent	
		Lunch	
TOTAL HOURS			

## MATERIALS USED TODAY

Quantity	Description
	Safety Meetings
	① Tropical storm / High winds
	② Welding Safety
	HIRA, slip-trip-fall, PPE, Hand tool safety, Open hole awareness, tripping tubings, slips (pressure) overhead dangers.

## TIME OF ACTIVITY BY ITEM #

From	To	Card One	Item #
		AM PM	
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		AM PM	

## COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

Finish trip out backside, removed last cement tubing stand & Larkish rubber. weld plate to cover hole on backside. Trip in 2 3/8" tubing down well 31std and 1 pup joint (10'). develop well. put new packing in Booster Pump, disposed of solid samples from bags, pressured up FRP to remove Packer Seal 400psi. Tripout of Hole 31std 2 3/8" tubing. closed in well.

H. Rain

6-26-12

Date

Client's Signature

DAYONE

Date

Supervisor's Signature

Date



## LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

## CLIENT

FOL

Proposed Turkey Point Units 6 and 7  
Docket Nos. 52-040 and 52-041

DATE \_\_\_\_\_

6-27-12

100.5

11771-1405-10000

**JOB SITE NAME**

now - 1

L-2012-273 Enclosure 3 Page 24 of 53

#### COMPONENT DEPLOYED TODAY

100% TE LOCATION

T. P.

DAILY ACCOUNTING OF ACTIVITIES BY JOURNAL:

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
<del>D.Miller</del>	BOSIT GULOMOV	45	12		12
B.C	BILL CROSSLEY	45	12		12
V.T	VLAD ISHIMOV	45	12		12
A.P	ANDREY POPOV	45	12		12
J.N	JUAN NITO.	45	12		12
P.V	PAUL VAUGHT	45	12		12
J.M	JAMES MCDONNELL	45	12		12
V.M	VICTOR MOSYEV	45	12		12

Quantity	Description
	SAFETY MTC:
	T.S.H CEMENT (ING:
	PINCH POINT
	HAND SAFETY:

Description	Unit #	Status
RDW-200.	28605	w/1
1989 MACIL	18000	w/1
DUMP TRUCK		
CEMENT	28195	S/B
UNIT		

[illegible]

Item #	Cost Code	Labor Activity	Hours
1	10000	Short Duration Job	
2	11100	On-site Mob/Demob	
3	11150	Job Preparation	
4	11200	Safety Meeting	
5	0005	Drilling - Overhead	
6	0006	Shop - Overhead	
7	0007	Maintenance - Overhead	
8	11250	Training - Job Chargeable	
9	11300	Site Cleanup	
10	11350	Install Sound Walls	
11	11400	Install Decon Pad	
12	11450	Install Surface Casing	
13	11500	Install Roadway & Drill Pad	
14	12050	Test Hole Drilling	
15	12100	Geophysical Logging & Other Testing	
16	12150	Fluid for Zone Testing	
17	12200	Barograph Abandonment	
18	13050	Production Well Installation	
19	13100	Install Conductor Pipe	
20	13150	Drill Pilot Hole	
21	13200	Geophysical Logging & Other Testing	
22	13250	Fluid for Zone Testing	
23	13300	Barograph Abandonment/Conductor Plugs	
24	13350	Cementing	
25	13400	Under Reaming	
26	13450	Install Casing	
27	13500	Install Screen	
28	13550	Gravel Pack The Well	
29	13600	Install Annular Seal	
30	13650	Water Washing	
31	14050	Well Development Air Lift and Swab	
32	14100	Disposal of Fluids & Cuttings	
33	14150	Function & Install Test Pump and Discharge	
34	14200	Development Pumping	
35	14250	Test Pumping	
36	14300	Injection and Completion	
37	19050	Off-site Activities Mob/Demob	
38	19100	Shop	
39	19150	Administration	
40	19550	Other Activities Standby	
41	19600	Waiting for Lost/Broken Tooling	
42	19650	Change Order Activities	
43	88000	Equipment Repairs	
44	90170	Damages	
45	90200	Lab Superintendent	
		Lunch	
		TOYAL HOURS	

COMMENTS - EVENTS - COMMENTS - CHANGES - OTHER INFORMATION

**DAD:**  
TUES. CHANGES



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Helping Ellis and Dave; EW - take a part; Clean up  
Working PIT; T/H Cement taking @ 1844 BPL;  
Set the packer 320 PSI; Pressure up in side FRP  
150 PSI; Start the test 4:48<sup>5:00</sup> pm to - 5:45<sup>6:00</sup> pm.  
0. PSI Loser; Kill FRP 3" Kill!

Whitson

K. P. R. S.



Project:		Florida Power & Light Company Miami-Dade County, Florida Exploratory Well EW-1						 	
EW-1 Pad Monitoring Well Water Quality Data Northeast Pad Monitoring Well (NE-EW PMW)									
Date	Time (hours)	Depth to Water (ft. btoc)	Water Elevation (ft. NAVD 88)	Specific Conductance (umhos/cm)	Chloride (mg/L)	TDS (mg/L)	Temperature (degrees C)	Remarks	
4/21/2011	1108	10.49	-1.61	78,700	32,200	57,000	29.8	Background Sampling	
4/29/2011	1157	10.68	-1.80	80,400	29,900	53,800	30.4		
5/5/2011	1157	11.40	-2.52	81,400	27,500	52,350	31.2		
5/11/2011	1309	11.00	-2.12	76,800	31,600	51,200	29.7		
5/19/2011	0958	10.48	-1.60	72,600	35,600	51,200	29.5		
5/26/2011	1050	10.76	-1.88	71,360	29,500	52,900	29.7		
6/2/2011	1134	10.78	-1.90	71,700	29,000	55,700	29.6		
6/9/2011	1128	10.61	-1.73	69,700	32,300	50,650	29.3		
6/16/2011	0958	10.35	-1.47	69,300	33,000	53,450	29.5		
6/23/2011	1028	10.41	-1.53	69,400	30,600	55,600	29.5		
6/30/2011	0928	10.15	-1.27	70,300	27,600	51,950	29.2		
7/8/2011	1210	9.00	-0.12	72,570	30,100	54,150	29.9		
7/14/2011	1338	9.75	-0.87	76,400	27,200	54,550	29.9		
7/21/2011	1039	9.35	-0.47	72,200	32,600	49,760	29.7		
7/28/2011	1119	9.51	-0.63	71,600	30,200	54,250	29.7		
8/4/2011	1249	9.70	-0.82	64,400	31,500	53,850	27.5		
8/11/2011	1059	9.25	-0.37	73,900	29,500	57,150	29.6		
8/18/2011	1039	9.45	-0.57	71,900	29,400	54,850	30.0		
8/25/2011	1039	9.45	-0.57	69,800	31,300	55,550	29.7		
9/1/2011	1109	9.15	-0.27	71,700	29,500	56,300	29.9		
9/8/2011	1049	9.15	-0.27	70,700	31,400	49,800	30.3		
9/16/2011	1233	9.30	-0.42	5320*	1260*	2668*	27.8		
9/23/2011	1129	9.10	-0.22	72,900	31,200	52,750	30.1		
9/29/2011	1330	9.16	-0.28	11,500*	3,200*	7,010*	27.8		
10/6/2011	1119	9.30	-0.42	72,600	30,000	56,200	30.1		
10/13/2011	1058	10.15	-1.27	75,200	32,500	51,600	30.1		
10/20/2011	1049	8.40	0.48	68,400	29,100	57,450	29.9		
10/27/2011	1109	8.95	-0.07	80,200	27,700	54,950	30.0		
11/3/2011	1049	8.91	-0.03	80,200	31,100	55,700	29.9		
11/10/2011	0958	9.67	-0.79	75,500	28,700	59,600	30.0		
11/17/2011	1058	10.81	-1.93	68,400	34,900	57,500	30.1		
11/25/2011	0939	9.51	-0.63	69,300	26,500	52,750	30.0		
12/1/2011	1138	9.67	-0.79	66,000	29,800	55,200	29.8		
12/8/2011	1058	10.31	-1.43	63,800	30,100	57,050	27.5		
12/15/2011	1109	9.61	-0.73	75,400	28,300	53,700	30.0		
12/22/2011	1038	9.67	-0.79	69,300	29,500	51,800	30.7		
12/29/2011	0918	9.87	-0.99	76,900	30,800	51,300	29.7		
1/5/2012	1118	10.41	-1.53	70,400	28,100	52,200	29.5		
1/12/2012	1058	10.21	-1.33	75,200	28,200	50,900	29.9		
1/19/2012	0958	10.30	-1.42	75,200	27,700	49,300	29.8		
1/26/2012	1048	10.22	-1.34	72,300	29,400	55,300	30.0		
2/2/2012	1048	10.21	-1.33	71,300	28,400	50,700	29.9		
2/10/2012	1029	9.15	-0.27	71,400	30,400	52,400	30.0		
2/16/2012	1219	9.47	-0.59	72,300	27,000	53,300	29.9		
2/23/2012	1049	9.57	-0.69	72,300	29,600	55,100	30.1		
3/1/2012	1038	9.74	-0.86	72,300	31,500	50,100	30.0		
3/8/2012	1058	9.76	-0.88	72,200	31,600	53,100	29.3		
3/16/2012	1038	9.65	-0.77	72,100	34,900	53,100	29.9		
3/22/2012	1108	9.90	-1.02	72,400	30,800	48,700	29.8		
3/29/2012	0911	9.87	-0.99	72,500	29,100	48,600	29.2		
4/5/2012	1208	10.25	-1.37	71,600	29,200	50,800	30.0		
4/12/2012	1118	10.15	-1.27	71,500	32,000	52,700	30.1		
4/19/2012	1143	9.85	-0.97	72,000	34,000	54,500	30.3		
4/26/2012	1009	9.50	-0.62	72,100	36,000	54,200	29.7		
5/3/2012	1144	8.85	0.03	72,400	36,500	50,900	29.6		
5/10/2012	1109	9.42	-0.54	72,800	32,000	51,700	29.7		
5/17/2012	0959	9.05	-0.17	73,200	29,500	53,200	29.7		
5/24/2012	1229	8.65	0.23	72,200	28,900	51,900	29.6		
5/31/2012	1214	9.04	-0.16	72,800	30,900	51,200	29.9		
6/8/2012	1029	9.32	-0.44	72,800	30,700	50,900	29.9		
6/14/2012	1029	9.55	-0.67	72,000	30,700	53,500	30.2		
6/21/2012	1129	9.25	-0.37	72,800	30,600	51,300	29.7		
<div>ft. btoc: feet below top of casing</div> <div>TOC: Top of Casing</div> <div>ft. NAVD 88: North American Vertical Datum of 1988</div> <div>umhos/cm: micromhos per centimeter</div> <div>mg/L: milligrams per liter</div> <div>C: Celsius</div> <div>*Results appear to be anomalous and are suspected to be related to a sampling error. Countermeasures to prevent reoccurrence have been implemented.</div> <div>Note: TOC elevation is: 8.88 feet NAVD 88</div>									



Project: Florida Power & Light Company  
Miami-Dade County, Florida  
Exploratory Well EW-1



**EW-1 Pad Monitoring Well Water Quality Data  
Southeast Pad Monitoring Well  
(SE-EW PMW)**

Date	Time (hours)	Depth to Water (ft. btoc)	Water Elevation (ft. NAVD 88)	Specific Conductance (umhos/cm)	Chloride (mg/L)	TDS (mg/L)	Temperature (degrees C)	Remarks
4/21/2011	1311	10.10	-1.51	81,600	30,200	57,800	29.9	Background Sampling
4/29/2011	1349	10.40	-1.81	86,700	33,100	55,000	30.4	
5/5/2011	1008	11.10	-2.51	83,000	29,500	54,700	29.9	
5/11/2011	1228	10.65	-2.06	78,200	30,100	52,600	30.1	
5/19/2011	1039	10.12	-1.53	75,200	30,000	51,100	29.8	
5/26/2011	1235	10.47	-1.88	73,890	31,200	53,800	29.9	
6/2/2011	1056	10.50	-1.91	74,200	29,400	57,400	29.6	
6/9/2011	1210	10.32	-1.73	72,200	32,100	51,000	29.6	
6/16/2011	1035	10.00	-1.41	71,300	32,200	54,000	29.8	
6/23/2011	1109	10.10	-1.51	71,900	31,600	55,650	29.8	
6/30/2011	1009	9.85	-1.26	72,800	27,600	53,050	29.5	
7/8/2011	1138	9.12	-0.53	73,150	29,800	54,450	29.9	
7/14/2011	1414	9.48	-0.89	79,700	29,000	55,350	29.8	
7/21/2011	1119	9.36	-0.77	74,100	34,000	54,100	30.0	
7/28/2011	1229	9.55	-0.96	74,300	30,200	56,300	29.8	
8/4/2011	1224	9.50	-0.91	72,700	31,500	53,000	27.7	
8/11/2011	1209	9.37	-0.78	77,400	30,000	56,800	29.7	
8/18/2011	1149	9.45	-0.86	74,100	30,100	55,500	30.0	
8/25/2011	1149	9.38	-0.79	73,300	31,200	57,450	29.6	
9/1/2011	1224	9.10	-0.51	72,700	30,700	57,300	29.8	
9/8/2011	1159	9.21	-0.62	73,200	32,200	51,800	30.1	
9/16/2011	1303	9.40	-0.81	70,280	29,600	50,550	27.7	
9/23/2011	1239	9.20	-0.61	75,200	29,000	55,550	29.8	
9/29/2011	1300	9.10	-0.51	68,500	30,700	53,600	27.4	
10/6/2011	1229	9.25	-0.66	79,100	31,300	54,050	30.0	
10/13/2011	1209	9.95	-1.36	76,900	30,200	52,250	30.1	
10/20/2011	1200	8.60	-0.01	69,900	28,000	57,150	29.8	
10/27/2011	1218	8.81	-0.22	82,400	28,000	56,500	30.0	
11/3/2011	1159	9.56	-0.97	82,900	31,000	56,400	30.1	
11/10/2011	1109	9.96	-1.37	78,300	27,900	60,500	30.1	
11/17/2011	1208	10.90	-2.31	69,700	34,000	57,800	30.2	
11/25/2011	1049	9.36	-0.77	69,900	26,900	53,600	30.0	
12/1/2011	1248	10.85	-2.26	71,800	33,900	57,000	30.2	
12/8/2011	1209	9.87	-1.28	68,900	29,500	61,500	27.0	
12/15/2011	1219	9.53	-0.94	76,600	28,000	55,100	30.1	
12/22/2011	1149	9.65	-1.06	72,300	29,000	52,400	30.0	
12/29/2011	1029	9.96	-1.37	77,600	29,800	52,200	30.1	
1/5/2012	1229	10.31	-1.72	72,800	27,700	53,400	30.1	
1/12/2012	1204	10.10	-1.51	76,000	30,800	52,900	30.1	
1/19/2012	1139	10.38	-1.79	76,500	28,100	50,800	30.0	
1/26/2012	1229	10.18	-1.59	73,200	29,900	56,300	30.1	
2/2/2012	1229	10.23	-1.64	72,400	27,900	52,000	30.1	
2/10/2012	1209	9.21	-0.62	72,000	29,800	55,400	30.2	
2/16/2012	1359	9.45	-0.86	72,700	27,700	57,200	30.2	
2/23/2012	1229	9.48	-0.89	72,800	32,100	57,000	30.2	
3/1/2012	1219	9.61	-1.02	72,800	31,000	51,700	30.2	
3/8/2012	1244	9.81	-1.22	72,500	32,500	52,500	29.9	
3/16/2012	1219	9.61	-1.02	72,900	34,300	53,100	30.3	
3/22/2012	1249	9.87	-1.28	72,600	31,000	51,100	30.2	
3/29/2012	1054	9.97	-1.38	72,900	29,500	51,200	29.9	
4/5/2012	1341	10.05	-1.46	72,300	29,500	52,200	30.2	
4/12/2012	1259	9.98	-1.39	72,200	31,200	53,800	30.5	
4/19/2012	1244	9.90	-1.31	71,800	33,500	54,500	30.4	
4/26/2012	1144	9.61	-1.02	72,200	35,500	54,500	30.0	
5/3/2012	1249	8.97	-0.38	73,100	37,400	51,700	30.2	
5/10/2012	1242	9.32	-0.73	73,300	32,100	53,100	30.2	
5/17/2012	1134	9.10	-0.51	73,300	27,700	54,100	30.1	
5/24/2012	1404	8.75	-0.16	73,400	30,600	54,100	30.3	
5/31/2012	1343	9.10	-0.51	73,900	31,000	50,500	30.1	
6/8/2012	1202	9.30	-0.71	73,300	31,100	53,200	30.3	
6/14/2012	1209	9.38	-0.79	73,700	31,500	54,700	30.6	
6/21/2012	1316	9.03	-0.44	73,700	29,900	52,300	30.2	

ft. btoc: feet below top of casing  
TOC: Top of Casing  
ft. NAVD 88: North American Vertical Datum of 1988  
umhos/cm: micromhos per centimeter  
mg/L: milligrams per liter  
C: Celsius  
Note: TOC elevation is: 8.59 feet NAVD 88

Project: Florida Power & Light Company  
Miami-Dade County, Florida  
Exploratory Well EW-1





**EW-1 Pad Monitoring Well Water Quality Data  
Northwest Pad Monitoring Well  
(NW-EW PMW)**

Date	Time (hours)	Depth to Water (ft. btoc)	Water Elevation (ft. NAVD 88)	Specific Conductance (umhos/cm)	Chloride (mg/L)	TDS (mg/L)	Temperature (degrees C)	Remarks
4/21/2011	1221	10.50	-1.66	84,300	33,500	59,900	30.8	Background Sampling
4/29/2011	1120	10.65	-1.81	86,300	33,700	56,400	30.0	
5/5/2011	1051	11.40	-2.56	87,400	31,300	57,650	31.1	
5/11/2011	1034	12.40	-3.56	79,100	33,500	55,650	30.4	
5/19/2011	1113	13.90	-5.06	80,000	36,000	53,700	30.4	
5/26/2011	1125	10.73	-1.89	75,130	32,300	55,450	30.4	
6/2/2011	1215	10.75	-1.91	75,900	30,700	59,500	30.3	
6/9/2011	1248	10.60	-1.76	72,500	32,200	51,950	29.9	
6/16/2011	1118	10.25	-1.41	72,500	31,500	54,550	30.0	
6/23/2011	1143	10.37	-1.53	73,300	31,600	57,750	30.3	
6/30/2011	1049	10.10	-1.26	75,700	27,400	54,300	30.0	
7/8/2011	1112	9.38	-0.54	74,100	30,700	53,950	30.3	
7/14/2011	1524	9.75	-0.91	79,900	27,600	56,350	30.3	
7/21/2011	1226	9.60	-0.76	76,200	32,600	54,500	29.7	
7/28/2011	1154	9.80	-0.96	74,900	32,200	57,050	30.5	
8/4/2011	1317	9.85	-1.01	78,000	30,500	59,300	28.7	
8/11/2011	1134	9.61	-0.77	77,600	31,100	58,150	30.4	
8/18/2011	1114	9.68	-0.84	73,100	30,000	55,350	30.6	
8/25/2011	1114	9.61	-0.77	72,300	31,800	56,950	30.0	
9/1/2011	1149	9.33	-0.49	71,900	29,300	56,000	30.4	
9/8/2011	1124	9.45	-0.61	73,800	30,100	52,300	30.5	
9/16/2011	1203	9.60	-0.76	67,200	23,400	51,650	28.2	
9/23/2011	1204	9.43	-0.59	73,800	30,800	54,450	30.4	
9/29/2011	1205	9.35	-0.51	68,700	27,500	50,800	27.6	
10/6/2011	1154	9.50	-0.66	78,400	30,000	56,550	30.2	
10/13/2011	1133	10.21	-1.37	75,800	29,300	50,500	30.2	
10/20/2011	1124	8.81	0.03	70,200	27,500	56,850	30.1	
10/27/2011	1143	10.39	-1.55	81,500	28,800	54,600	30.2	
11/3/2011	1123	10.50	-1.66	80,500	30,400	55,900	30.1	
11/10/2011	1033	10.37	-1.53	77,800	27,800	58,700	30.1	
11/17/2011	1133	10.71	-1.87	67,900	30,500	57,000	30.3	
11/25/2011	1014	9.58	-0.74	71,700	27,400	53,300	30.2	
12/1/2011	1214	9.80	-0.96	68,500	33,500	53,650	30.1	
12/8/2011	1133	10.37	-1.53	68,700	27,600	57,850	27.7	
12/15/2011	1144	9.75	-0.91	75,500	28,200	52,000	30.0	
12/22/2011	1114	9.87	-1.03	70,600	27,700	52,100	29.9	
12/29/2011	0954	9.97	-1.13	77,700	29,500	51,600	29.9	
1/5/2012	1153	10.52	-1.68	71,800	28,000	52,800	29.6	
1/12/2012	1133	10.35	-1.51	75,400	30,400	51,900	30.0	
1/19/2012	1033	10.42	-1.58	75,600	29,800	50,200	29.9	
1/26/2012	1123	10.35	-1.51	73,200	29,500	56,000	29.9	
2/2/2012	1123	10.35	-1.51	71,100	27,400	51,200	29.9	
2/10/2012	1104	9.38	-0.54	70,300	28,800	54,900	29.8	
2/16/2012	1254	9.67	-0.83	71,100	27,800	55,200	29.8	
2/23/2012	1124	9.67	-0.83	72,100	30,700	56,200	29.8	
3/1/2012	1114	9.91	-1.07	71,500	31,000	51,200	29.7	
3/8/2012	1139	9.62	-0.78	71,600	30,500	52,800	29.4	
3/16/2012	1114	9.85	-1.01	71,500	34,100	52,400	29.7	
3/22/2012	1144	10.10	-1.26	71,400	30,200	48,700	29.6	
3/29/2012	0949	9.93	-1.09	71,500	28,400	51,200	29.6	
4/5/2012	1241	10.09	-1.25	71,300	28,900	51,100	29.7	
4/12/2012	1154	10.00	-1.16	71,300	29,300	52,600	29.9	
4/19/2012	1109	9.97	-1.13	71,400	31,500	53,300	30.2	
4/26/2012	1042	9.68	-0.84	71,700	31,300	53,000	29.6	
5/3/2012	1109	9.00	-0.16	72,200	34,200	49,500	29.5	
5/10/2012	1142	9.35	-0.51	72,500	31,400	52,000	29.5	
5/17/2012	1032	9.10	-0.26	72,700	30,200	52,300	29.6	
5/24/2012	1302	8.75	0.09	72,600	30,300	52,800	29.5	
5/31/2012	1247	9.07	-0.23	73,100	32,100	48,800	29.6	
6/8/2012	1102	9.35	-0.51	71,800	30,300	52,200	29.7	
6/14/2012	1104	9.37	-0.53	72,300	30,200	53,200	30.3	
6/21/2012	1214	8.76	0.08	72,600	28,500	51,100	29.7	

ft. btoc: feet below top of casing  
TOC: Top of Casing  
ft. NAVD 88: North American Vertical Datum of 1988  
umhos/cm: micromhos per centimeter  
mg/L: milligrams per liter  
C: Celsius  
Note: TOC elevation is: 8.84 feet NAVD 88



Project: Florida Power & Light Company Miami-Dade County, Florida Exploratory Well EW-1								 
EW-1 Pad Monitoring Well Water Quality Data Southwest Pad Monitoring Well (SW-EW PMW)								
Date	Time (hours)	Depth to Water (ft. btoc)	Water Elevation (ft. NAVD 88)	Specific Conductance (umhos/cm)	Chloride (mg/L)	TDS (mg/L)	Temperature (degrees C)	Remarks
4/21/2011	1414	10.50	-1.62	72,500	26,400	51,500	30.6	Background Sampling
4/29/2011	1025	10.60	-1.72	77,400	28,300	51,600	29.8	
5/5/2011	0930	11.85	-2.97	75,200	29,000	49,400	28.7	
5/11/2011	1124	16.40	-7.52	78,100	28,300	51,050	31.6	
5/19/2011	1202	15.95	-7.07	73,100	29,700	48,450	32.6	
5/26/2011	1155	11.20	-2.32	66,630	27,800	48,350	29.4	
6/2/2011	1035	11.25	-2.37	68,500	26,000	52,600	29.4	
6/9/2011	1319	11.05	-2.17	65,400	26,300	44,150	29.5	
6/16/2011	1154	10.75	-1.87	64,900	27,000	48,450	29.5	
6/23/2011	1214	10.85	-1.97	65,500	30,400	50,800	29.6	
6/30/2011	1119	10.60	-1.72	68,500	24,300	46,650	29.4	
7/8/2011	1045	9.85	-0.97	64,950	25,600	47,650	29.6	
7/14/2011	1445	10.22	-1.34	69,900	24,800	48,300	29.6	
7/21/2011	1154	10.10	-1.22	67,800	27,400	47,900	29.6	
7/28/2011	1259	10.26	-1.38	67,000	26,600	48,650	27.7	
8/4/2011	1157	10.30	-1.42	68,420	25,600	51,350	27.5	
8/11/2011	1243	9.21	-0.33	67,800	26,400	51,150	29.7	
8/18/2011	1219	10.15	-1.27	66,300	25,400	47,500	29.8	
8/25/2011	1219	10.31	-1.43	66,000	26,900	50,150	29.4	
9/1/2011	1254	9.87	-0.99	65,400	25,700	49,450	29.8	
9/8/2011	1229	9.97	-1.09	66,800	26,300	46,500	29.9	
9/16/2011	1329	10.10	-1.22	64,000	25,700	46,800	28.0	
9/23/2011	1309	9.95	-1.07	66,200	25,800	47,500	29.6	
9/29/2011	1230	9.80	-0.92	64,100	25,400	46,150	27.7	
10/6/2011	1259	9.97	-1.09	76,200	25,800	45,800	29.7	
10/13/2011	1239	10.67	-1.79	69,100	26,100	46,700	29.8	
10/20/2011	1229	9.31	-0.43	64,700	23,800	51,100	29.6	
10/27/2011	1249	10.87	-1.99	75,600	26,500	50,000	29.7	
11/3/2011	1229	10.93	-2.05	75,600	27,700	49,750	29.7	
11/10/2011	1139	10.91	-2.03	73,500	25,500	53,300	29.7	
11/17/2011	1238	11.41	-2.53	63,800	26,900	50,400	29.7	
11/25/2011	1119	10.05	-1.17	65,800	24,900	48,950	29.7	
12/1/2011	1323	11.42	-2.54	65,900	29,600	51,100	29.6	
12/8/2011	1239	10.98	-2.10	64,900	24,800	52,450	27.3	
12/15/2011	1247	10.27	-1.39	70,100	24,800	49,700	29.4	
12/22/2011	1219	10.27	-1.39	66,800	24,900	45,600	29.7	
12/29/2011	1059	10.67	-1.79	71,100	26,400	46,300	29.5	
1/5/2012	1259	11.03	-2.15	64,800	24,900	47,600	29.3	
1/12/2012	1234	10.87	-1.99	69,000	25,700	47,000	29.6	
1/19/2012	1104	11.00	-2.12	69,100	24,900	44,200	29.4	
1/26/2012	1154	10.85	-1.97	67,500	25,900	50,100	29.4	
2/2/2012	1154	10.97	-2.09	65,300	25,200	46,200	29.5	
2/10/2012	1134	9.91	-1.03	65,300	25,400	48,900	29.6	
2/16/2012	1324	10.15	-1.27	64,600	24,100	50,500	29.4	
2/23/2012	1154	10.24	-1.36	65,300	24,100	50,500	29.5	
3/1/2012	1144	10.27	-1.39	65,300	26,900	45,900	29.4	
3/8/2012	1209	10.31	-1.43	65,300	27,400	47,700	30.0	
3/16/2012	1144	10.35	-1.47	65,300	29,800	47,200	29.3	
3/22/2012	1214	10.61	-1.73	65,500	27,100	44,600	29.3	
3/29/2012	1019	10.18	-1.30	65,500	26,100	45,900	29.5	
4/5/2012	1309	10.72	-1.84	65,300	25,600	48,200	29.4	
4/12/2012	1224	10.60	-1.72	65,000	27,000	49,700	30.5	
4/19/2012	1211	10.65	-1.77	65,400	28,200	50,800	30.6	
4/26/2012	1109	10.32	-1.44	66,000	30,900	49,800	29.2	
5/3/2012	1214	9.70	-0.82	67,200	30,800	47,700	29.2	
5/10/2012	1209	10.02	-1.14	68,700	30,200	49,600	29.2	
5/17/2012	1100	9.85	-0.97	68,700	27,800	49,200	28.9	
5/24/2012	1330	9.47	-0.59	68,700	28,000	49,600	29.2	
5/31/2012	1314	9.91	-1.03	68,400	28,900	49,400	29.3	
6/8/2012	1129	10.10	-1.22	68,300	29,700	49,600	29.4	
6/14/2012	1134	10.15	-1.27	67,300	28,500	50,100	29.5	
6/21/2012	1243	9.75	-0.87	68,800	27,200	48,500	29.3	
ft. btoc: feet below top of casing TOC: Top of Casing ft. NAVD 88: North American Vertical Datum of 1988 umhos/cm: micromhos per centimeter mg/L: milligrams per liter C: Celsius Note: TOC elevation is: 8.88 feet NAVD 88								



<b>Project:</b>	Florida Power & Light Company Miami-Dade County, Florida Dual-Zone Monitor Well DZMW-1
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**DZMW-1 Pad Monitoring Well Water Quality Data**  
**Northeast Pad Monitoring Well**  
**(NE-DZMW PMW)**

Date	Time (hours)	Depth to Water (ft. btoc)	Water Elevation (ft. NAVD 88)	Specific Conductance (umhos/cm)	Chloride (mg/L)	TDS (mg/L)	Temperature (degrees C)	Remarks
3/20/2012	0958	8.15	-1.08	73,100	33,300	52,200	30.1	Background Sampling
3/29/2012	1128	8.23	-1.16	73,000	29,600	51,400	30.1	
4/6/2012	0858	8.30	-1.23	72,200	28,800	51,200	30.1	
4/13/2012	1128	8.25	-1.18	72,300	33,900	53,100	30.2	
4/20/2012	1038	8.20	-1.13	72,000	34,700	54,500	30.1	
4/27/2012	0958	7.95	-0.88	72,100	37,300	55,100	29.8	
5/4/2012	1009	7.22	-0.15	72,400	29,900	51,100	29.8	
5/11/2012	1229	7.65	-0.58	72,300	34,700	53,000	30.0	
5/18/2012	1109	7.43	-0.36	73,500	37,600	51,100	30.3	
5/25/2012	1239	7.33	-0.26	73,900	34,300	54,100	30.1	
6/1/2012	1259	7.45	-0.38	74,000	33,300	51,300	29.9	
6/8/2012	1237	7.65	-0.58	73,600	31,700	52,100	30.3	
6/15/2012	1226	7.67	-0.60	73,800	33,300	54,500	30.4	
6/22/2012	1219	7.37	-0.30	73,300	32,100	57,200	30.2	

ft. btoc:	feet below top of casing
TOC:	Top of Casing
ft. NAVD 88:	North American Vertical Datum of 1988
umhos/cm:	micromhos per centimeter
mg/L:	milligrams per liter
C:	Celsius
Top of Casing Elevation:	7.07 feet NAVD 88


Project:

Florida Power & Light Company

Miami-Dade County, Florida

Dual-Zone Monitor Well DZMW-1

MHC





DZMW-1 Pad Monitoring Well Water Quality Data



Southeast Pad Monitoring Well

(SE-DZMW PMW)



Date	Time (hours)	Depth to Water (ft. btoc)	Water Elevation (ft. NAVD 88)	Specific Conductance (umhos/cm)	Chloride (mg/L)	TDS (mg/L)	Temperature (degrees C)	Remarks
3/20/2012	1033	8.25	-1.08	72,700	33,900	50,500	30.1	Background Sampling
3/29/2012	1303	8.33	-1.16	72,800	29,200	50,400	30.2	
4/6/2012	1028	8.30	-1.13	72,300	29,300	53,300	30.2	
4/13/2012	1303	8.32	-1.15	72,400	33,800	54,600	30.2	
4/20/2012	1213	8.28	-1.11	72,300	31,700	55,400	30.2	
4/27/2012	1133	8.10	-0.93	72,600	34,600	53,900	29.5	
5/4/2012	1141	7.40	-0.23	73,300	29,700	52,700	30.0	
5/11/2012	1403	7.67	-0.50	72,700	34,100	52,000	30.1	
5/18/2012	1240	7.58	-0.41	74,000	33,100	52,000	30.7	
5/25/2012	1415	7.43	-0.26	73,900	32,400	52,600	29.7	
6/1/2012	1119	7.50	-0.33	73,900	32,100	51,300	29.8	
6/8/2012	1408	7.72	-0.55	73,400	30,800	52,700	30.3	
6/15/2012	1058	7.70	-0.53	73,200	33,500	53,900	30.2	
6/22/2012	1350	7.48	-0.31	73,100	30,500	54,100	29.4	





<b>Project:</b>		Florida Power & Light Company Miami-Dade County, Florida Dual-Zone Monitor Well DZMW-1						 	
<b>DZMW-1 Pad Monitoring Well Water Quality Data</b> <b>Southwest Pad Monitoring Well</b> <b>(SW-DZMW PMW)</b>									
Date	Time (hours)	Depth to Water (ft. btoc)	Water Elevation (ft. NAVD 88)	Specific Conductance (umhos/cm)	Chloride (mg/L)	TDS (mg/L)	Temperature (degrees C)	Remarks	
3/20/2012	1137	8.34	-0.97	73,300	32,900	50,300	30.1	Background Sampling	
3/29/2012	1229	8.38	-1.01	73,100	29,900	50,700	30.2		
4/6/2012	0954	8.50	-1.13	72,000	28,800	52,500	29.9		
4/13/2012	1227	8.52	-1.15	72,000	32,300	54,400	29.9		
4/20/2012	1139	8.45	-1.08	72,100	31,800	53,700	29.9		
4/27/2012	1101	8.25	-0.88	72,600	31,800	55,300	29.9		
5/4/2012	1108	7.60	-0.23	73,200	30,500	52,600	29.6		
5/11/2012	1331	7.95	-0.58	71,500	35,400	53,800	29.5		
5/18/2012	1208	7.82	-0.45	73,800	32,600	51,200	29.9		
5/25/2012	1343	7.68	-0.31	73,900	33,500	53,600	29.8		
6/1/2012	1151	7.71	-0.34	74,100	30,700	51,500	29.5		
6/8/2012	1336	7.97	-0.60	73,300	30,900	53,400	29.9		
6/15/2012	1131	7.95	-0.58	73,400	32,000	53,600	29.9		
6/22/2012	1318	7.68	-0.31	73,800	30,000	56,000	29.7		

<b>Project:</b>		Florida Power & Light Company Miami-Dade County, Florida Dual-Zone Monitor Well DZMW-1						 	
<b>DZMW-1 Pad Monitoring Well Water Quality Data</b> <b>Northwest Pad Monitoring Well</b> <b>(NW-DZMW PMW)</b>									
Date	Time (hours)	Depth to Water (ft. btoc)	Water Elevation (ft. NAVD 88)	Specific Conductance (umhos/cm)	Chloride (mg/L)	TDS (mg/L)	Temperature (degrees C)	Remarks	
3/20/2012	1103	8.27	-1.08	73,600	29,500	53,100	29.9	Background Sampling	
3/29/2012	1158	8.31	-1.12	73,400	30,100	48,400	30.0		
4/6/2012	0926	8.35	-1.16	72,100	29,200	51,400	29.8		
4/13/2012	1157	8.41	-1.22	72,200	34,600	55,000	30.4		
4/20/2012	1108	8.35	-1.16	72,000	31,400	55,500	29.9		
4/27/2012	1027	8.05	-0.86	72,200	32,200	53,900	29.8		
5/4/2012	1037	7.12	0.07	72,800	30,800	52,400	29.6		
5/11/2012	1258	8.45	-1.26	72,300	33,700	53,000	29.8		
5/18/2012	1137	7.30	-0.11	73,600	35,100	51,800	29.8		
5/25/2012	1309	7.10	0.09	73,400	32,200	53,300	29.7		
6/1/2012	1219	7.25	-0.06	73,800	31,900	52,700	29.6		
6/8/2012	1304	7.50	-0.31	73,400	31,500	51,800	30.0		
6/15/2012	1159	7.51	-0.32	73,700	32,500	54,800	30.1		
6/22/2012	1247	7.21	-0.02	73,800	30,500	54,200	29.7		
ft. btoc: feet below top of casing TOC: Top of Casing ft. NAVD 88: North American Vertical Datum of 1988 umhos/cm: micromhos per centimeter mg/L: milligrams per liter C: Celsius Top of Casing Elevation: 7.19 feet NAVD 88									



<div> <div>Florida Power &amp; Light Company</div> <div>Turkey Point</div> <div>Dual-Zone Monitor Well DZMW-1</div> <div>6 5/8-inch Diameter FRP Tubing Run Summary</div> </div> <div>   </div>				
Date Installed	Time Installed	Joint #	Length of Joint	Cumulative Length
6/22/2012	8:00	Packer	6.64	6.64
6/22/2012	8:05	1	29.54	36.18
6/22/2012	8:25	2	29.62	65.80
6/22/2012	8:40	3	29.54	95.34
6/22/2012	10:10	4	29.61	124.95
6/22/2012	10:23	5	29.57	154.52
6/22/2012	10:33	6	29.62	184.14
6/22/2012	10:48	7	29.62	213.76
6/22/2012	10:53	8	29.6	243.36
6/22/2012	10:58	9	29.58	272.94
6/22/2012	11:04	10	29.61	302.55
6/22/2012	11:10	11	29.11	331.66
6/22/2012	11:27	12	28.58	360.24
6/22/2012	11:33	13	29.53	389.77
6/22/2012	11:40	14	29.55	419.32
6/22/2012	12:09	15	29.54	448.86
6/22/2012	12:14	16	29.54	478.40
6/22/2012	12:20	17	29.54	507.94
6/22/2012	12:24	18	29.18	537.12
6/22/2012	12:30	19	29.54	566.66
6/22/2012	12:36	20	29.53	596.19
6/22/2012	12:46	21	29.53	625.72
6/22/2012	13:00	22	29.52	655.24
6/22/2012	13:06	23	29.54	684.78
6/22/2012	13:12	24	29.53	714.31
6/22/2012	13:18	25	29.53	743.84
6/22/2012	13:23	26	29.53	773.37
6/22/2012	13:31	27	29.54	802.91
6/22/2012	13:39	28	29.53	832.44
6/22/2012	13:55	29	29.15	861.59
6/22/2012	14:00	30	29.58	891.17
6/22/2012	14:04	31	29.59	920.76
6/22/2012	14:09	32	29.58	950.34
6/22/2012	14:15	33	29.54	979.88
6/22/2012	14:20	34	29.52	1,009.40
6/22/2012	14:26	35	29.55	1,038.95
6/22/2012	14:34	36	29.53	1,068.48
6/22/2012	14:39	37	29.12	1,097.60
6/22/2012	14:44	38	29.53	1,127.13
6/22/2012	14:56	39	29.53	1,156.66

<div> <div>Florida Power &amp; Light Company</div> <div>Turkey Point</div> <div>Dual-Zone Monitor Well DZMW-1</div> <div>6 5/8-inch Diameter FRP Tubing Run Summary</div> </div> <div>   </div>				
Date Installed	Time Installed	Joint #	Length of Joint	Cumulative Length
6/22/2012	15:00	40	29.2	1,185.86
6/22/2012	15:03	41	29.16	1,215.02
6/22/2012	15:28	42	29.48	1,244.50
6/22/2012	15:34	43	29.54	1,274.04
6/22/2012	15:40	44	29.15	1,303.19
6/22/2012	15:45	45	29.55	1,332.74
6/22/2012	15:50	46	29.52	1,362.26
6/22/2012	15:58	47	29.52	1,391.78
6/22/2012	16:41	48	29.18	1,420.96
6/23/2012	7:45	49	29.52	1,450.48
6/23/2012	7:51	50	29.18	1,479.66
6/23/2012	7:57	51	29.19	1,508.85
6/23/2012	8:02	52	29.52	1,538.37
6/23/2012	8:06	53	29.51	1,567.88
6/23/2012	8:11	54	29.19	1,597.07
6/23/2012	8:18	55	29.52	1,626.59
6/23/2012	8:23	56	29.52	1,656.11
6/23/2012	8:28	57	29.52	1,685.63
6/23/2012	8:34	58	29.2	1,714.83
6/23/2012	8:38	59	29.54	1,744.37
6/23/2012	8:46	60	29.53	1,773.90
6/23/2012	8:53	61	29.53	1,803.43
6/23/2012	9:11	62	29.53	1,832.96
6/23/2012	10:15	Stainless Steel	44.9	1,877.86
12.68 feet was cut off the stainless steel portion of the tubing to leave the top of casing at 5.18 feet above pad level.  <b>FRP liner set to 1,860 feet bpl</b> All lengths measured in feet.				



**Florida Power & Light Company**  
**Turkey Point**  
**Dual-Zone Monitor Well DZMW-1**  
**6 5/8-inch Diameter Cement Summary**



Cementing Stage	Date	Depth of Hole (feet bpl)	Volume of Cement			Theoretical		Actual Interval Cemented (feet)	Actual / Theoretical Filled Interval (percent)	Type of cement (including additives)
			Planned (barrels)	Actual Pumped (barrels)	(cubic feet)	Depth (feet bpl)	Fill (feet )			
Spot 1	6/23/2012	1,855	2	2	11.2	1,840	15	19	126.7	Neat
Spot 2	6/23/2012	1,836	4	4.1	23.0	1,814	22	28	127.3	Neat
1	6/24/2012	1,808	67	67	375.9	1,590	218	191	87.6	Neat
2	6/24/2012	1,617	35	35	196.4	1,530	87	84	96.6	Neat
3	6/25/2012	1,533	12.5	12.5	70.1	1,500	33	43	130.3	Neat
Final tag:		1,490								
<b>Total:</b>			<b>120.5</b>	<b>120.6</b>	<b>676.6</b>					

"Tagged Bottom" refers to the top of cement that was tagged by the Contractor prior to the cementing stage.

"Theoretical Interval Cemented" is the theoretical linear feet of cement fill based on the volume of cement pumped for that stage (calculated using XY caliper log).

"Actual Interval Cemented" refers to the difference between "Tagged Bottom" depths.

"Actual/Theoretical Filled Interval" refers to the "Actual Interval Cemented" divided by the "Theoretical Interval Cemented" as a percentage.

"bpl" denotes below pad level.

<b>Florida Power &amp; Light Company</b> <b>Turkey Point</b> <b>Dual-Zone Monitor Well DZMW-1</b> <b>Daily Kill Material Log</b>			
Date	Depth (feet bpl)	Kill Used	Approximate Volume (gallons)
5/8/2012	1105	Bentonite /Barite	379
5/11/2012	1344	Bentonite /Barite	379
5/11/2012	1389	Bentonite /Barite	379
5/12/2012	1479	Bentonite /Barite	379
5/12/2012	1524	Bentonite /Barite	379
5/13/2012	1614	Bentonite /Barite	379
5/13/2012	1659	Bentonite /Barite	190
5/13/2012	1704	Bentonite /Barite	284
5/17/2012	1905	Bentonite /Barite	2,842
5/18/2012	1905	Bentonite /Barite	4,548
5/22/2012	1905	Bentonite /Barite	569
6/1/2012	1905	Bentonite /Barite	2,653
6/2/2012	1905	Bentonite /Barite	190
6/3/2012	1905	Bentonite /Barite	3600
6/11/2012	1453	Bentonite /Barite	6822
6/13/2012	1453	Bentonite /Barite	5686
6/13/2012	1453	Bentonite /Barite	330
6/18/2012	1794	Bentonite /Barite	189
6/19/2012	1850	Bentonite /Barite	2653
6/20/2012	1905	Bentonite /Barite	1705
6/27/2012	1905	Bentonite /Barite	284
feet bpl = feet below pad level			



**Florida Power & Light Company**



**Turkey Point**

**Dual-Zone Monitor Well DZMW-1**

**6 3/4-inch Diameter FRP Casing Pressure Test**

**Client:** Florida Power & Light

**Well Name:** DZMW-1

**Date:** 27-Jun-12

**Observer:** Sally Durall (MHC)  
Mike Jordan (FPL)

**Base of Casing:** 1,860 feet bpl

**Packer Depth:** 1,844 feet bpl

<u>Time</u>	<u>Lapse Time (minutes)</u>	<u>Casing Pressure (psi)</u>	<u>Comments</u>
1700	0	151.5	Start Test
1705	5	151.5	
1710	10	151.5	
1715	15	151.5	
1720	20	151.5	
1725	25	151.5	
1730	30	151.5	
1735	35	151.5	
1740	40	151.5	
1745	45	151.5	
1750	50	151.5	
1755	55	151.5	
1800	60	151.5	End Test

Note: 3 gallons of water were released during pressure bleed-off.  
feet bpl = feet below pad level

**Florida Power & Light Company**

**Turkey Point**

**Exploratory Well EW-1**

**Annular Pressure Test**



**Client:** Florida Power & Light

**Well Name:** EW-1

**Date:** 21-Jun-12

**Observer:** Sally Durall (MHC)  
Len Fishkin (FDEP)

**Base of FRP Tubing:** 2,975 feet bpl

<u>Time</u>	<u>Lapse Time (minutes)</u>	<u>Annular Pressure (psi)</u>	<u>Comments</u>
1025	0	160.5	Start Test
1030	5	160.5	
1035	10	160.5	
1040	15	160.5	
1045	20	160.5	
1050	25	160.0	
1055	30	160.0	
1100	35	159.5	
1105	40	159.0	
1110	45	159.0	
1115	50	158.5	
1120	55	158.5	
1125	60	158.5	End Test

Note: Approximately 63 gallons of fluid were released from the annulus during pressure bleed-off.  
feet bpl = feet below pad level





**GEOPHYSICAL LOGGING  
SERVICES**

# (6.625" FRP CASING) CEMENT TOP TEMPERATURE LOG

Proposed Turkey Point Units 6 and 7  
Docket Nos. 52-040 and 52-041  
L-2012-273 Enclosure 3 Page 39 of 53

Company Well Field County State	FP&L TURKEY POINT DZMW-1 FLORIDA CITY MIAMI-DADE FLORIDA	Country USA	Company	FP&L			
			Well	TURKEY POINT DZMW-1			
			Field	FLORIDA CITY			
			County	MIAMI-DADE			
			State	FLORIDA	Country	USA	
		Location:		API # :		Other Services	
		FPL TURKEY POINT POWER PLANT MCNABB HYDROGEOLOGIC CONSULTING, INC.				NONE	
		LAT: 25 25' 19" N LONG: 80 20' 08" W SEC TWP RGE				Elevation	
		Permanent Datum		PAD LEVEL		Elevation	
		Log Measured From		PAD LEVEL		K.B.	
		Drilling Measured From		PAD LEVEL		D.F.	
						G.L.	
Date		24-JUN-2012					
Run Number		NINE					
Depth Driller		1905'					
Depth Logger		1855'					
Bottom Logged Interval		1855'					
Top Log Interval		SURFACE					
Open Hole Size		12.25"					
Type Fluid		WATER					
Density / Viscosity		NA					
Max. Recorded Temp.		190 F					
Estimated Cement Top		1490'					
Time Well Ready		SEE COMMENTS					
Time Logger on Bottom		SEE COMMENTS					
Equipment Number		GEO1					
Location		FT. MYERS					
Recorded By		J. CATHEY					
Witnessed By		S. DURALL					
Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	12.25"	CASING	250'	FIVE	12.25"	CASING	1900'
TWO	42"	CASING	258'	SIX	22"	CASING	1453'
THREE	12.25"	CASING	1110'	SEVEN	12.25"	CASING	1905'
FOUR	32.5"	CASING	1105'				
Casing Record		Size		Wgt/Ft		Top	
Surface String		44"		.375" W.T.		SURFACE	
Prot. String		34"		.375" W.T.		SURFACE	
Production String		24"		.375" W.T.		SURFACE	
Liner		16"		.500" W.T.		SURFACE	
FRP TUBING		6.625"		FRP		SURFACE	
						Bottom	
						36'	
						255'	
						1100'	
						1450'	
						1860'	

Vertical Hole



\*\*\* Old File \*\*\*

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

### Comments

Proposed Turkey Point Units 6 and 7  
Docket Nos. 52-040 and 52-041  
L-2012-273 Enclosure 3 Page 40 of 53

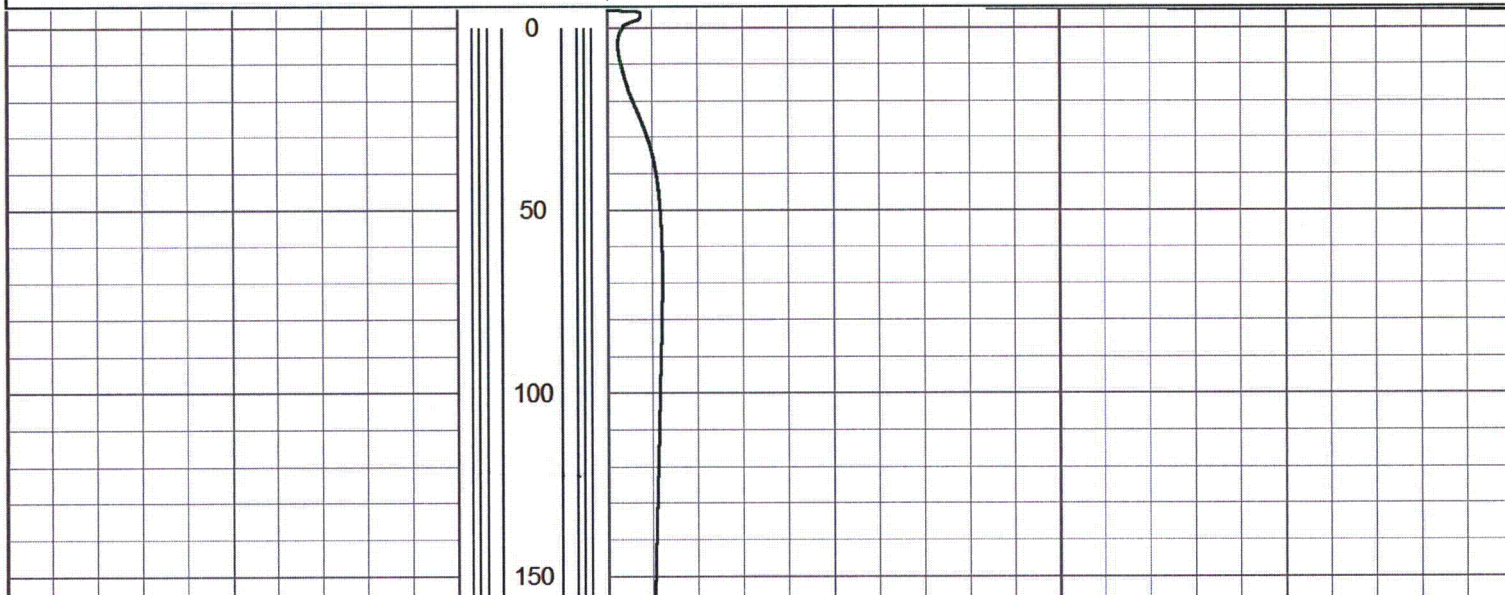
STAGE 1 LOGGED 24-JUNE-2012 @ 1400  
STAGE 2 LOGGED 24-JUNE-2012 @ 2200  
STAGE 3 LOGGED 25-JUNE-2012 @ 0700



## MERGED CTL

Database File: fpldzmw1.db  
Dataset Pathname: turkeypoi/well/run8/TEMP1  
Presentation Format: ctmlrg  
Dataset Creation: Sun Jun 24 12:49:54 2012 by Log SOC 111108  
Charted by: Depth in Feet scaled 1:600

80	Stage 1 (degF)	180
80	Stage 2 (degF)	180
80	Stage 3 (degF)	180





150

200

250

300

350

400

450

500

550

600

650



650

700

750

800

850

900

950

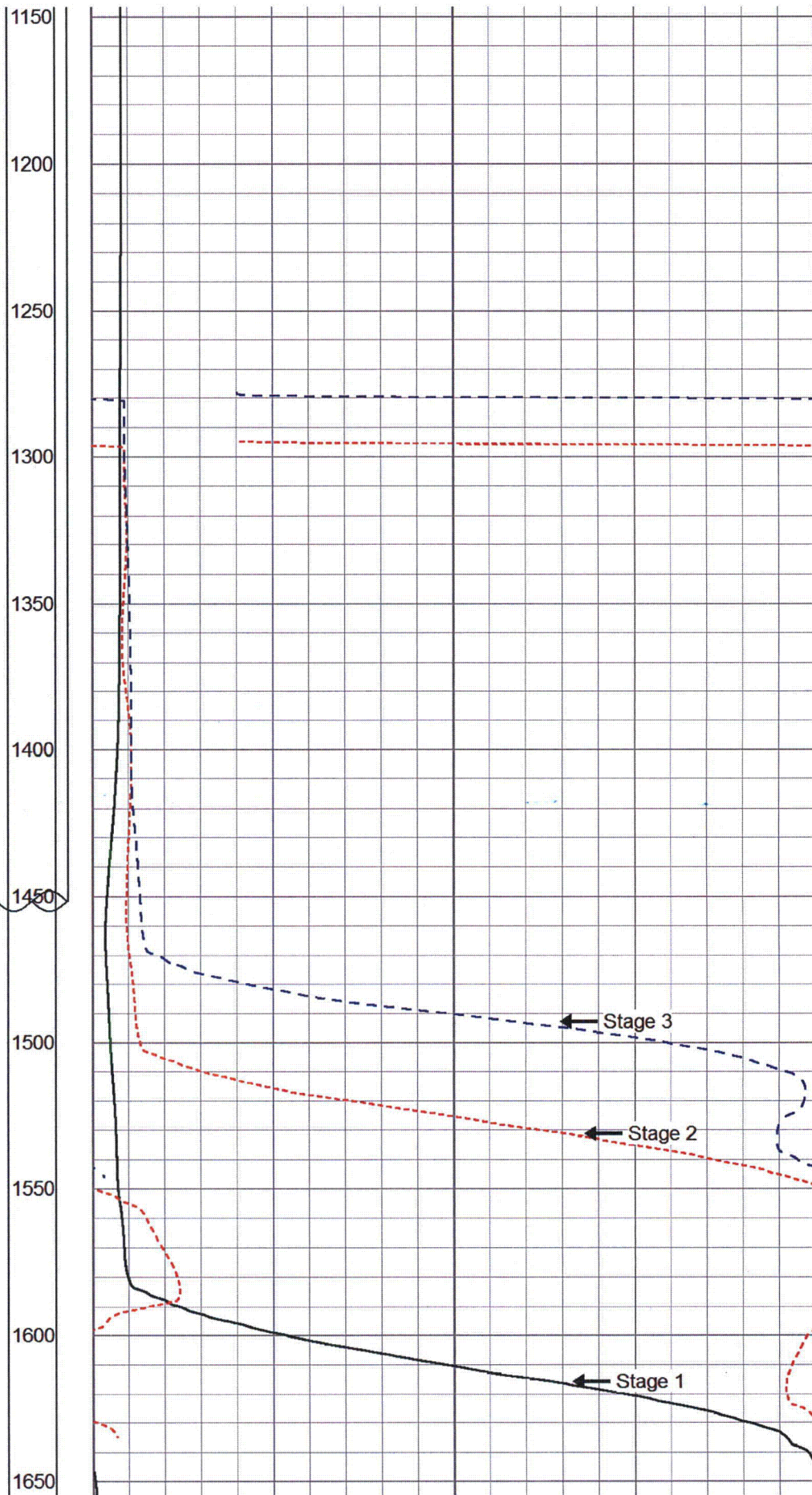
1000

1050

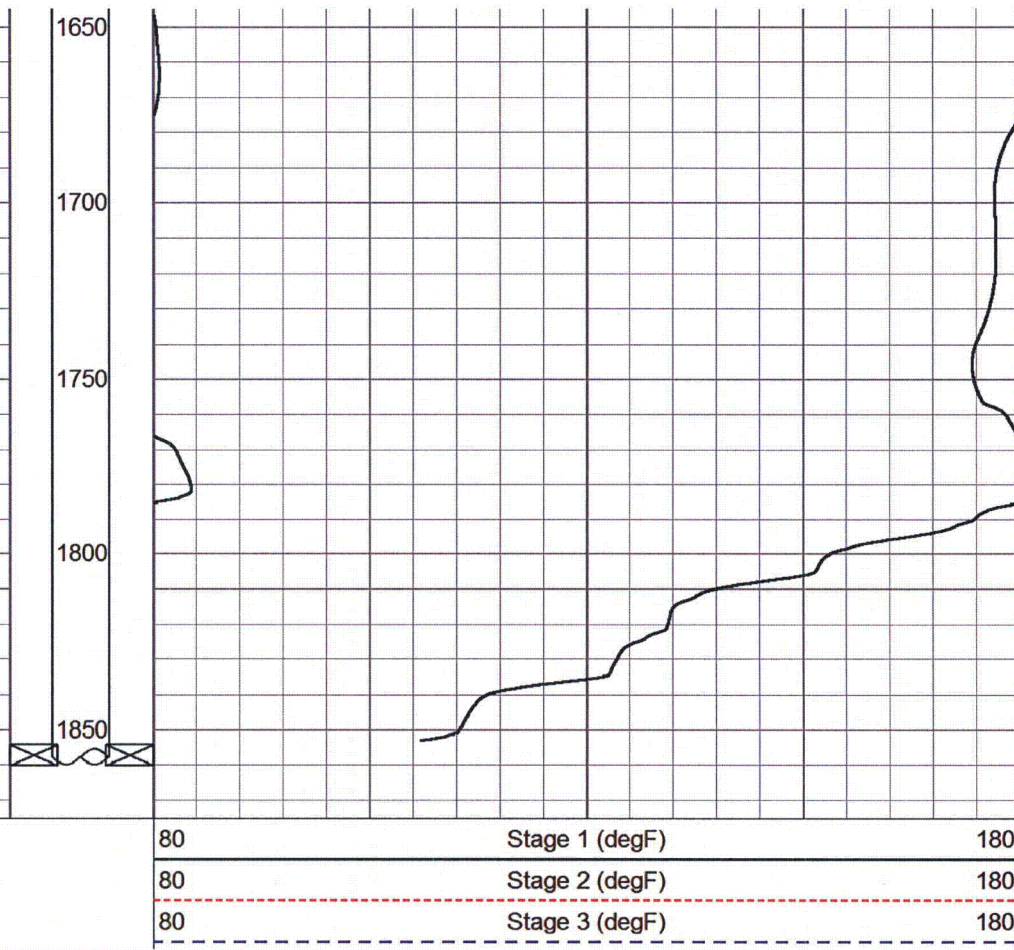
1100

1150









### Calibration Report


Database File: fpldzmw1.db  
Dataset Pathname: turkeypoi/well/run8/TEMP3  
Dataset Creation: Mon Jun 25 07:06:09 2012 by Log SOC 111108

### Temperature Calibration Report

Serial Number: 111143  
Tool Model: 1.375TEMP  
Performed: Wed Jan 25 10:30:05 2012

	Reference	Reading
Low Reference:	0.00 degF	0.00 cps
High Reference:	100.00 degF	1000.00cps

Gain: 0.10  
Offset: 0.00  
Delta Spacing: 1

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
TEMP	0.13		TEMP-1.375TEMP (111143) Temperature Tool	1.33	1.38	5.00
		Dataset:	fpldzmw1.db: turkeypoi/well/run8/TEMP1			
		Total Length:	1.33 ft			
		Total Weight:	5.00 lb			
		O.D.	1.38 in			





**GEOPHYSICAL LOGGING  
SERVICES**

# (6.625" FRP CASING) CEMENT BOND VARIABLE DENSITY LOG

Proposed Turkey Point Units 6 and 7  
Docket Nos. 52-040 and 52-041  
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Country USA

Company FP&L

Well TURKEY POINT DZMW-1

Field FLORIDA CITY

County MIAMI-DADE

State FLORIDA

Country USA

Location:

API #:

FPL TURKEY POINT POWER PLANT  
MCNABB HYDROGEOLOGIC CONSULTING, INC.

LAT: 25 25' 19" N LONG: 80 20' 08" W  
SEC TWP RGE

Other Services

NONE

Elevation

K.B.  
D.F.  
G.L.

Permanent Datum

PAD LEVEL

Elevation

Log Measured From

PAD LEVEL

Drilling Measured From

PAD LEVEL

Company  
Well  
Field  
County  
State

TURKEY POINT DZMW-1

FLORIDA CITY

MIAMI-DADE

FLORIDA

Date	27-JUN-2012	
Run Number	TEN	
Depth Driller	1905'	
Depth Logger	1855'	
Bottom Logged Interval	1855'	
Top Log Interval	1200'	
Open Hole Size	12.25"	
Type Fluid	WATER	
Density / Viscosity	NA	
Max. Recorded Temp.	NA	
Estimated Cement Top	1490'	
Time Well Ready	1000	
Time Logger on Bottom	1000	
Equipment Number	GEO1	
Location	FT. MYERS	
Recorded By	J. CATHEY	
Witnessed By	S. DURALL	

## Borehole Record

## Tubing Record

Run Number	Bit	From	To	Size	Weight	From	To
ONE	12.25"	CASING	250'	FIVE	12.25"	CASING	1900'
TWO	42"	CASING	258'	SIX	22"	CASING	1453'
THREE	12.25"	CASING	1110'	SEVEN	12.25"	CASING	1905'
FOUR	32.5"	CASING	1105'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	44"	.375" W.T.	SURFACE	36'
Prot. String	34"	.375" W.T.	SURFACE	255'
Production String	24"	.375" W.T.	SURFACE	1100'
Liner	16"	.500" W.T.	SURFACE	1450'
FRP TUBING	6.625"	FRP	SURFACE	1860'

>>> Fold Here >>>



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

### Comments

Proposed Turkey Point Units 6 and 7  
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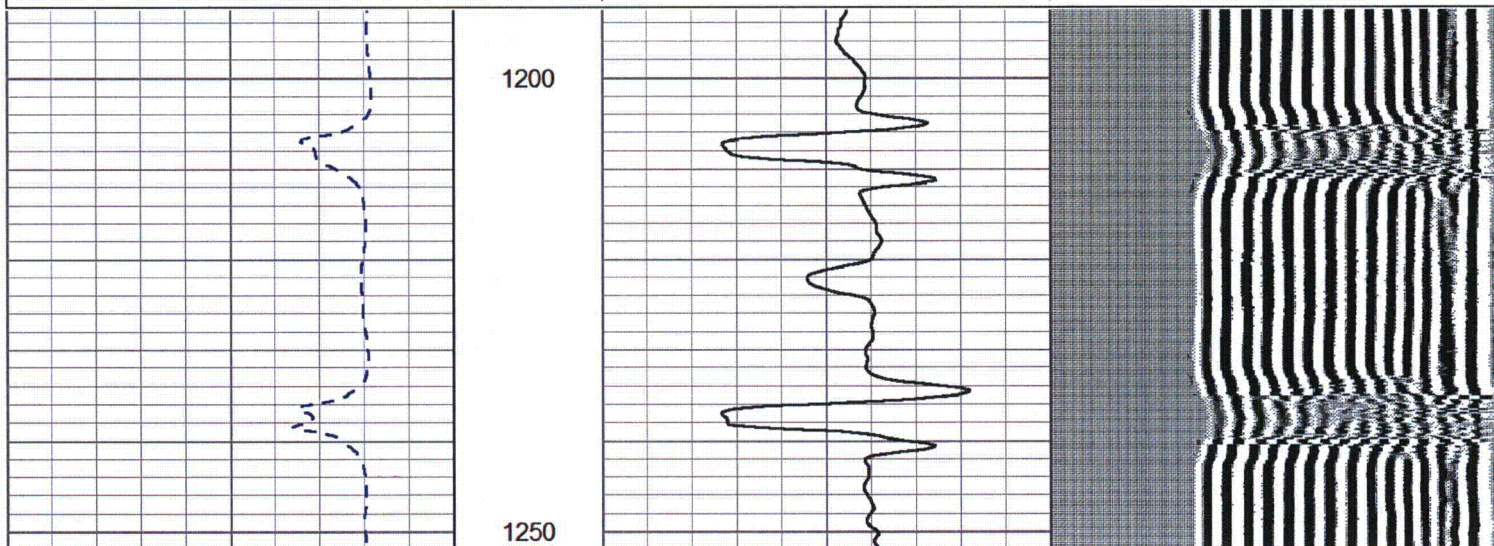


**GEOPHYSICAL LOGGING  
SERVICES**

# MAIN PASS

Database File: fpldzmw1.db  
Dataset Pathname: turkeypoi/well/run9/pass3  
Presentation Format: 3ft5ftcbl  
Dataset Creation: Wed Jun 27 10:38:39 2012 by Log SOC 111108  
Charted by: Depth in Feet scaled 1:240

500	Travel Time (usec)	300	0	Amplified Amplitude (mV)	10	200	Variable Density	1200
-----			0	Amplitude (mV)	100			





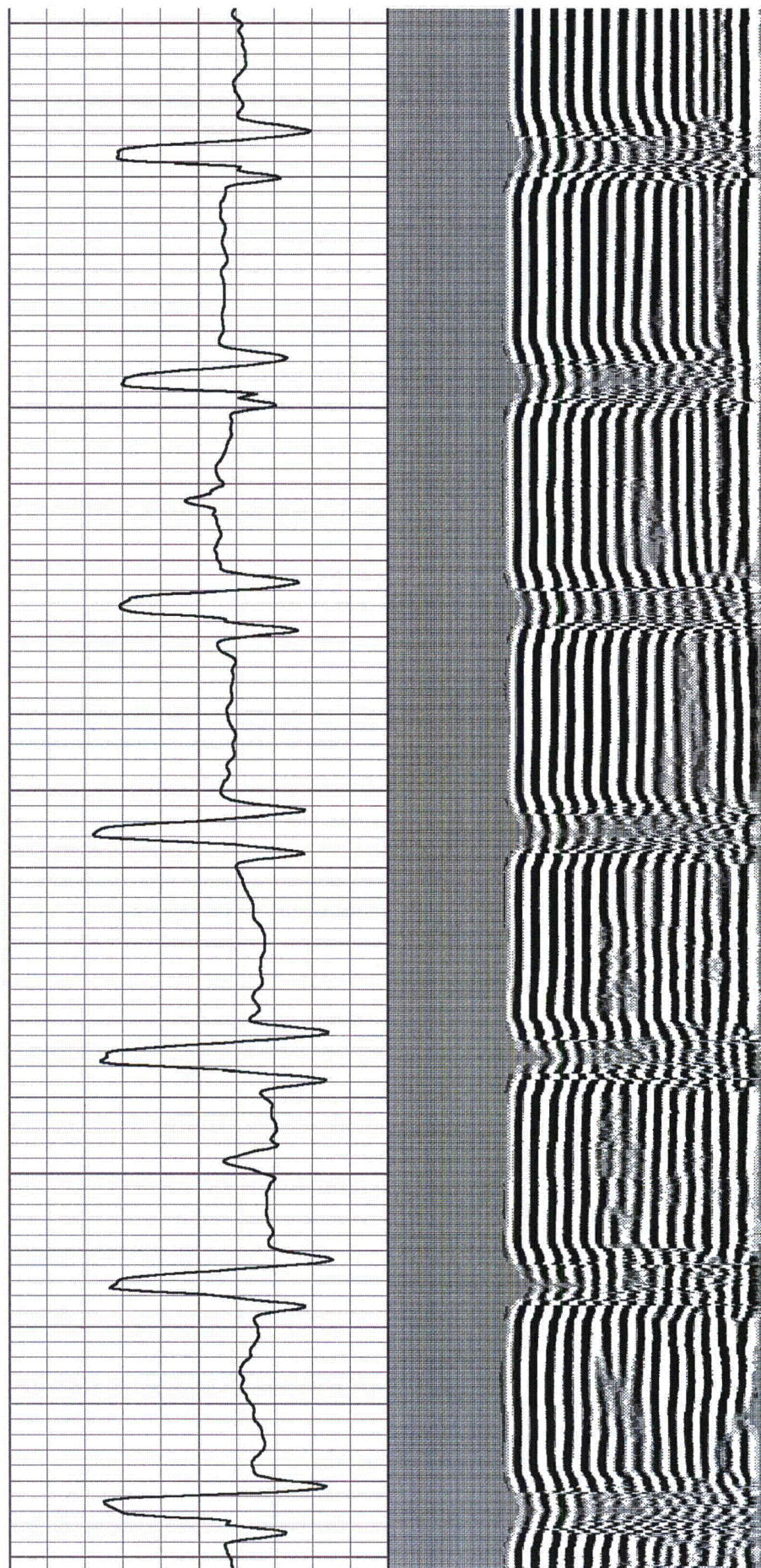
1250

1300

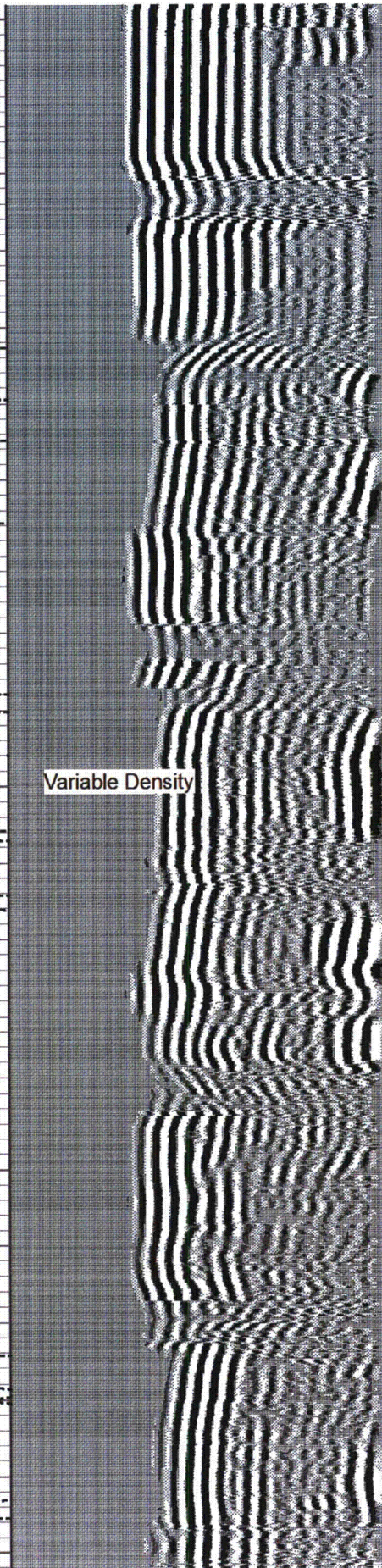
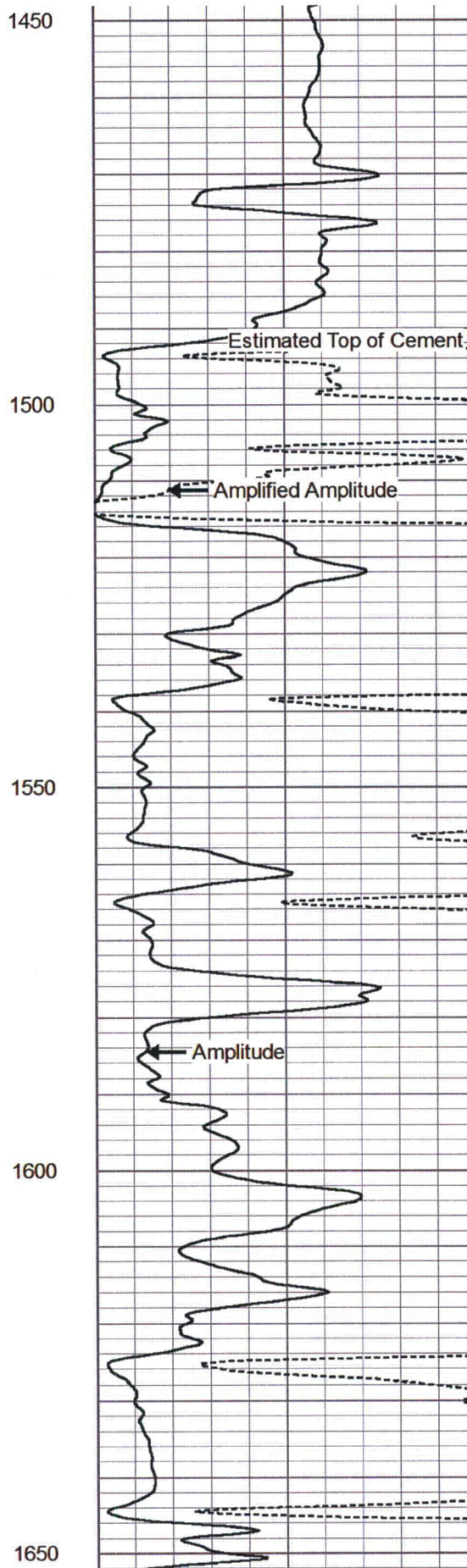
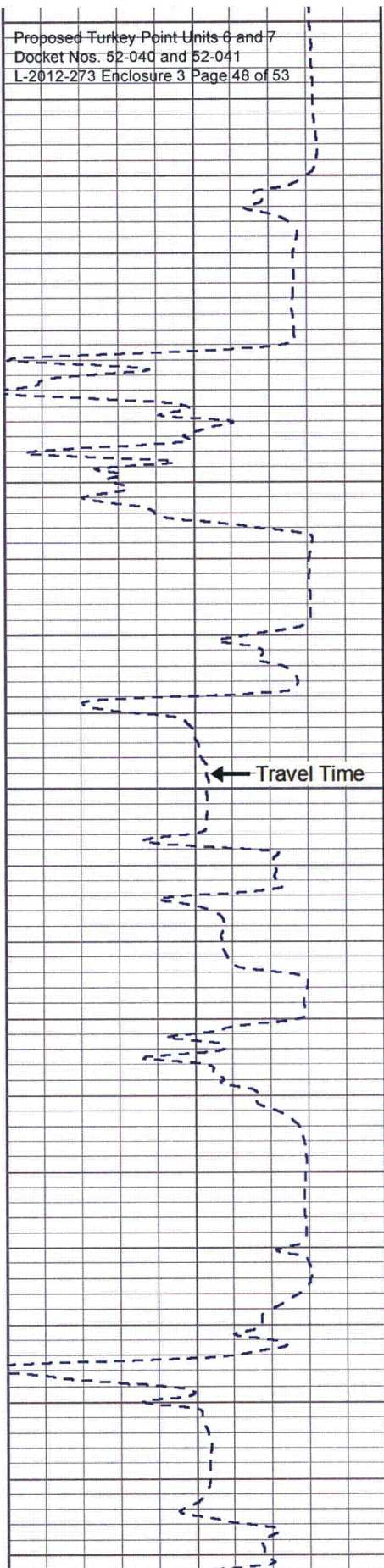
1350

1400

1450









1650

1700

1750

1800

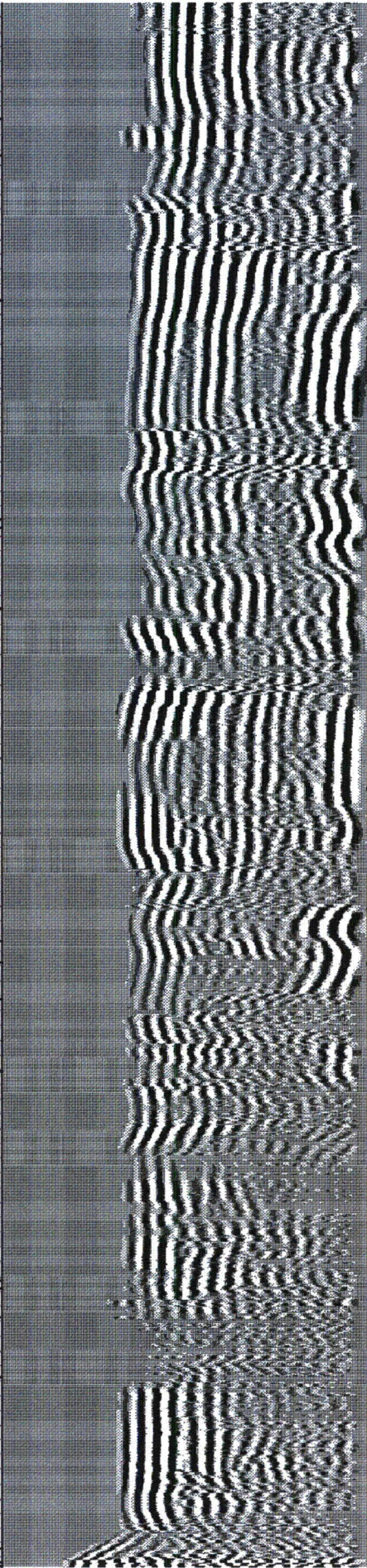
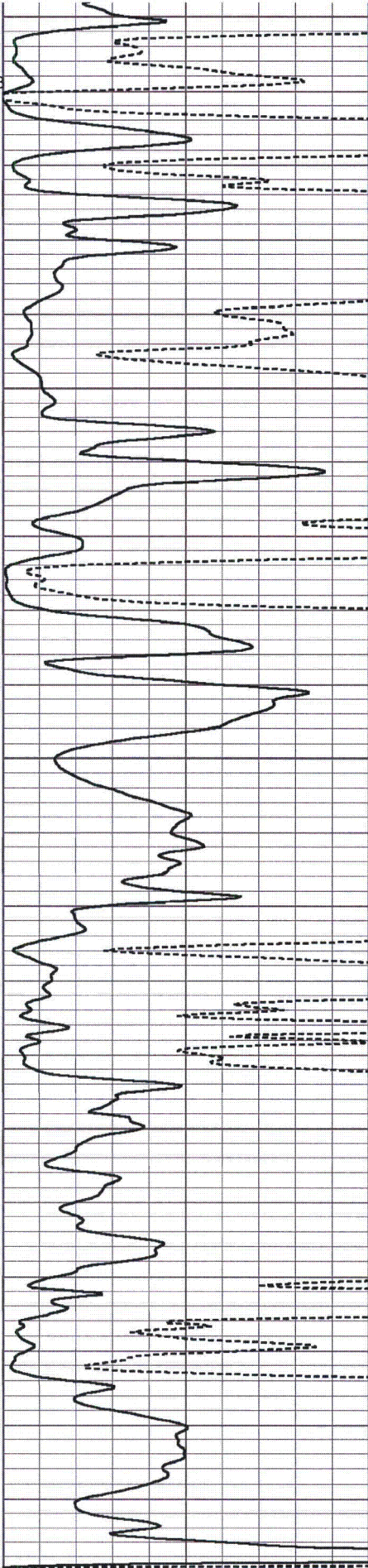
1850

500 Travel Time (usec) 300

0 Amplified Amplitude (mV) 10

0 Amplitude (mV) 100

200 Variable Density 1200







GEOPHYSICAL LOGGING  
SERVICES

# REPEAT PASS

Database File: fpldzmw1.db  
Dataset Pathname: turkeypoi/well/run9/pass2  
Presentation Format: 3ft5ftcbl  
Dataset Creation: Wed Jun 27 10:28:17 2012 by Log SOC 111108  
Charted by: Depth in Feet scaled 1:240

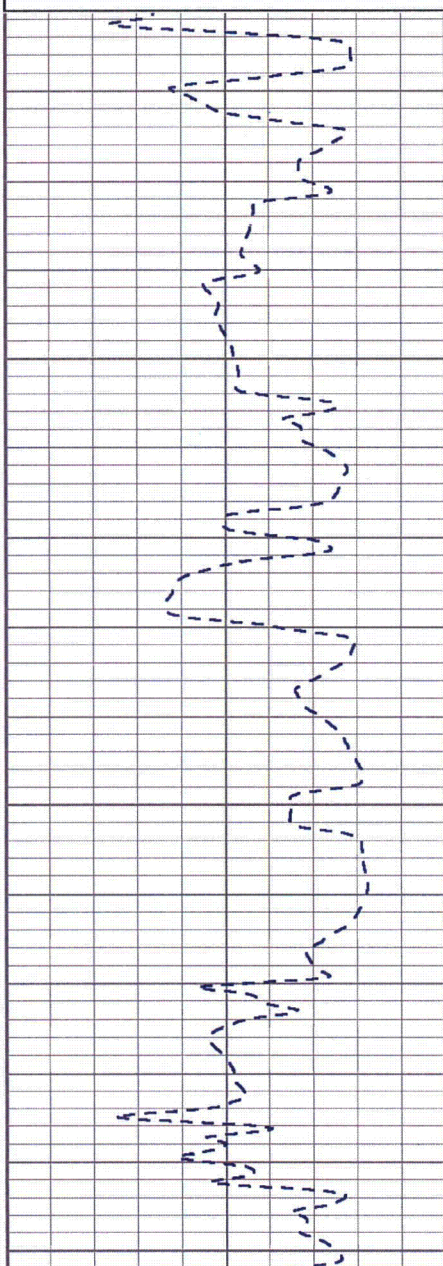
Proposed Turkey Point Units 6 and 7  
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500 Travel Time (usec) 300

0 Amplified Amplitude (mV) 10

200 Variable Density 1200

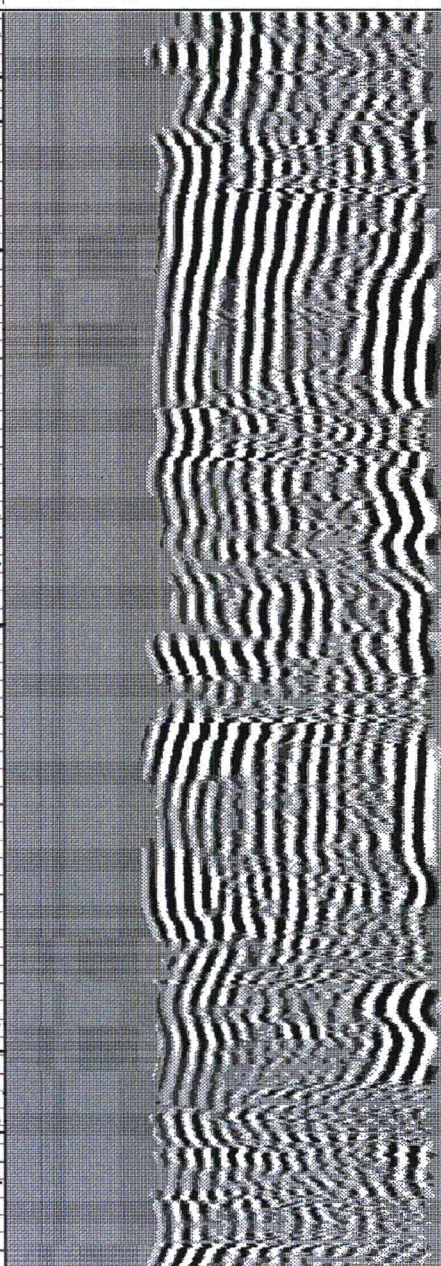
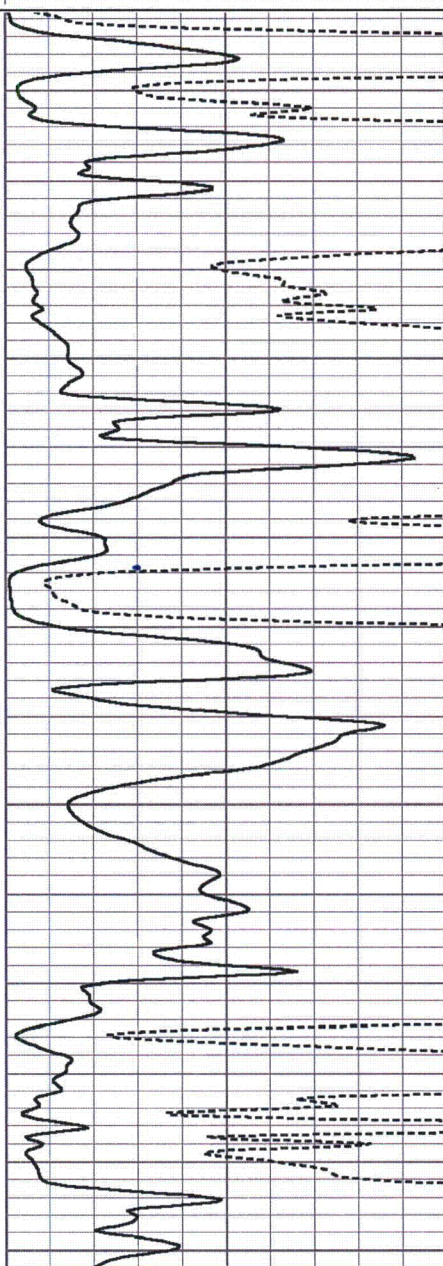
0 Amplitude (mV) 100



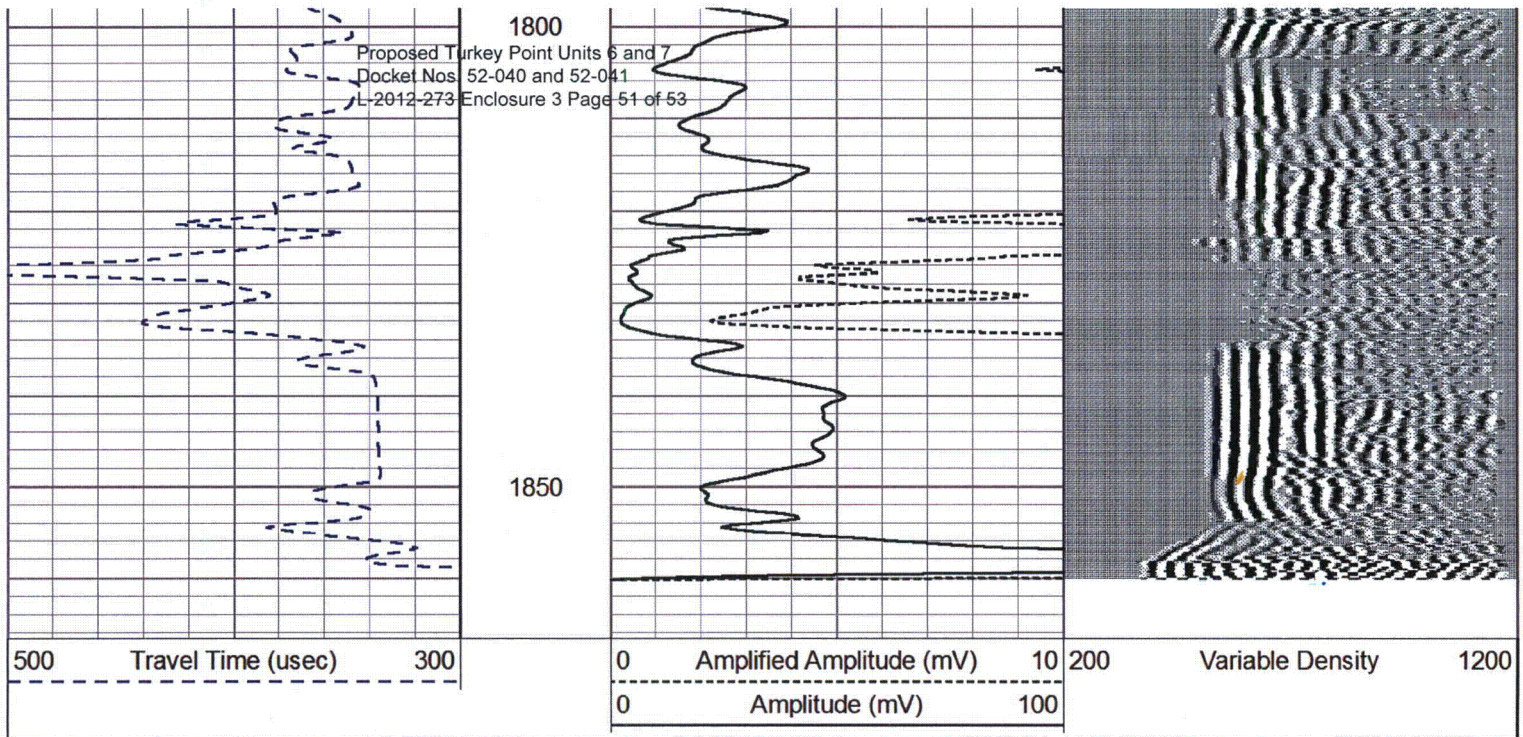
1700

1750

1800







### Calibration Report

Database File: fpldzmw1.db  
Dataset Pathname: turkeypoi/well/run9/pass3  
Dataset Creation: Wed Jun 27 10:38:39 2012 by Log SOC 111108

### Segmented Cement Bond Log Calibration Report

Serial Number: IHN22-01  
Tool Model: 325 w/o Temp  
Calibration Casing Diameter: 6.625 in  
Calibration Depth: 1440.208 ft

Master Calibration, performed Wed Jun 27 10:10:47 2012:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.025	0.608	0.000	64.269	110.191	-2.702
CAL	0.023	0.389				
5'	0.019	0.601	0.000	64.269	110.345	-2.061
SUM						
S1	0.032	0.557	0.000	100.000	190.202	-6.018
S2	0.024	0.467	0.000	100.000	226.030	-5.449
S3	0.020	0.432	0.000	100.000	242.748	-4.925
S4	0.017	0.461	0.000	100.000	225.018	-3.738
S5	0.029	0.591	0.000	100.000	178.122	-5.234
S6	0.029	0.735	0.000	100.000	141.554	-4.062
S7	0.019	0.792	0.000	100.000	129.258	-2.413
S8	0.027	0.701	0.000	100.000	148.285	-3.973

Internal Reference Calibration, performed Wed Dec 31 19:00:00 1969:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.023	0.389	1.000	0.000

**Air Zero Calibration, performed Wed Jun 27 09:42:41 2012:**

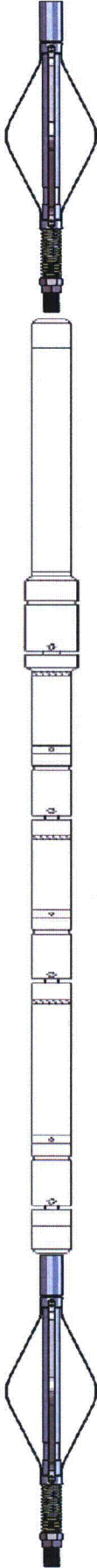
Proposed Turkey Point Units 6 and 7

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	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.000	0.000	0.000
5'	0.000	0.000	0.000
SUM			
S1	0.000	0.000	0.000
S2	0.000	0.000	0.000
S3	0.000	0.000	0.000
S4	0.000	0.000	0.000
S5	0.000	0.000	0.000
S6	0.000	0.000	0.000
S7	0.000	0.000	0.000
S8	0.000	0.000	0.000



Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
Proposed Turkey Point Units 6 and 7 Docket Nos. 52-040 and 52-041 L-2012-273 Enclosure 3 Page 53 of 53			CB_CENT CBL Centralizer	3.00	1.69	
WVFS1	8.08		SCBLTEKSECT-325 w/o Temp (IHN22-01) 3 1/4" RIB w/o Temp	9.13	2.75	102.00
WVFS2	8.08					
WVFS3	8.08					
WVFS4	8.08					
WVFS5	8.08					
WVFS6	8.08					
WVFS7	8.08					
WVFS8	8.08					
WVF3FT	7.33					
WVF5FT	6.33					
WVFCAL	3.00		CB_CENT CBL Centralizer	3.00	1.69	
		Dataset: fpldzmw1.db: turkeypoi/well/run9/pass3 Total Length: 15.13 ft Total Weight: 102.00 lb O.D. 2.75 in				