



L-2012-003
10 CFR 52.3

January 09, 2012

U.S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, D.C. 20555-0001

Re: Florida Power & Light Company
Proposed Turkey Point Units 6 and 7
Docket Nos. 52-040 and 52-041
Submittal of Underground Injection Control Exploratory
Well Weekly Construction Summaries – #31, #32, and #33

Reference:

1. FPL Letter to NRC, L-2009-265 dated November 24, 2009, Revised Hydrology Response to NRC Information Requests in COL Application Acceptance Review Letter

This letter provides the Underground Injection Control (UIC) weekly construction summaries #31 dated December 9, 2011, #32 dated December 16, 2011, and #33 dated December 22, 2011, submitted to the Florida Department of Environmental Protection (FDEP) as required by Permit #0293962-001-UC, and discussed in FPL's Revised Hydrology Response to NRC Information Requests in COL Application Acceptance Review Letter (Reference 1).

If you have any questions, or need additional information, please contact me at 561-691-7490.

Sincerely,

A handwritten signature in black ink, appearing to read 'William Maher'.

William Maher
Senior Licensing Director – New Nuclear Projects

WDM/RFB

Enclosures:

1. Florida Power & Light Company Turkey Point Units 6 & 7 Exploratory Well Project; Permit #0293962-001-UC Weekly Construction Summary #31 dated December 9, 2011
2. Florida Power & Light Company Turkey Point Units 6 & 7 Exploratory Well Project; Permit #0293962-001-UC Weekly Construction Summary #32 dated December 16, 2011

D097
NRD

Proposed Turkey Point Units 6 and 7
Docket Nos. 52-040 and 52-041
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3. Florida Power & Light Company Turkey Point Units 6 & 7 Exploratory Well Project;
Permit #0293962-001-UC Weekly Construction Summary #33 dated
December 22, 2011

cc:

PTN 6 & 7 Project Manager, AP1000 Projects Branch 1, USNRC DNRL/NRO
Regional Administrator, Region II, USNRC
Senior Resident Inspector, USNRC, Turkey Point Plant 3 & 4

Proposed Turkey Point Units 6 and 7
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Enclosure 1

Florida Power & Light Company Turkey Point Units 6 & 7
Exploratory Well Project; Permit #0293962-001-UC
Weekly Construction Summary #31 dated December 9, 2011

WEEKLY CONSTRUCTION SUMMARY



McNabb Hydrogeologic Consulting, Inc.

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

December 9, 2011

MHCDEP-11-0547

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 #31**

Dear Mr. May:

This is the thirty-first weekly construction summary for the above referenced project. The reporting period for this weekly construction summary began at 7:00 AM, Thursday, December 1, 2011 and ended at 7:00 AM, Thursday, December 8, 2011. 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 dredged the interval from 3,226 feet below pad level (bpl) to 3,234 feet bpl and performed geophysical logging of the pilot hole. Prints of the geophysical logs and a DVD of the video survey are attached.

During this reporting period, the drilling contractor performed a straddle packer test over the interval from 1,930 to 1,952 feet bpl and an off-bottom single packer test over the interval from 3,020 feet bpl to the base of the pilot hole at 3,232 feet bpl. Straddle packer tests over the intervals from 2,989 to 3,011 feet bpl and 2,984 to 3,006 feet bpl were terminated due to test interval productivity during conditioning of the test zone. The attached table provides a summary of the packer testing data. Water samples were collected at the end of the pumping portion of packer tests from 1,930 feet to 1,952 feet and from the single packer test performed below 3,020 feet bpl. The packer test water sample laboratory analytical reports are not yet available and will be included in the next weekly construction report. Salt was used to kill the well one time during the reporting period. A daily kill material log providing a summary of daily kill material and kill quantity is also attached. At the end of the reporting period, the drilling contractor was reaming the upper portion of the pilot hole in preparation for performing additional packer tests using large diameter packers. The large diameter packers are needed to perform packer testing in larger diameter portions of

the pilot hole that could not be packer tested with the smaller straddle packers used for the first test. A deviation survey was performed at a depth of 1,590 feet bpl while reaming the pilot hole. A deviation survey summary is attached.

There was no casing installation, cementing, geophysical logging or exploratory well development and no lithologic samples were collected during this reporting period. There were no construction related issues during this reporting period.

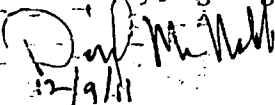
During the next reporting period, it is anticipated that the drilling contractor will complete reaming in preparation for packer testing.

In addition, sampling of the pad monitor wells began on April 21, 2011 and has been taking place on a weekly basis since the initial sampling. The pad monitor wells were most recently sampled on December 8, 2011. The most recent set of pad monitoring well sample results available are for samples collected on December 1, 2011. Sampling of the pad monitor wells around EW-1 will continue until drilling and testing of EW-1 has been completed. Copies of the 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.



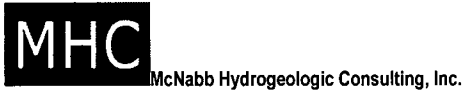
12/9/11

David McNabb, P.G.

Attachments: Consultant Daily Construction Log
Layne Christensen Company-Drilling Shift Report
Pad Monitor Well Water Quality Data Summary Sheets
Packer Test Summary Table
Deviation Survey Summary Sheet
Daily Kill Material Log
Geophysical Logs

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

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



Daily Construction Log

Date: December 1, 2011 **FDEP UIC Permit #:** 0293962-001-UC
Project: FPL Turkey Point EW **Well No.:** EW-1
Contractor: Layne Christensen Company **Bit Diameter:** 12 ¼-inch
Starting Depth: 3,232 feet bpl **Ending Depth:** 3,232 feet bpl
Weather Day: Partly Cloudy, Warm **Recorded By:** Marty Clasen/Eric Meyer
Weather Night: Cool with Intermittent Rain
Activity: Prepare for Packer Testing

CONSTRUCTION ACTIVITIES

- 0700 Yesterday, the drilling contractor conducted a full suite of geophysical logs on the open bore-hole interval from the bottom of the 34-inch diameter casing at a depth of 1,535 feet below pad level (bpl) to the bottom of the bore-hole at a depth of 3,232 feet bpl.
- 0730 The drilling contractor is beginning to trip out of the hole with the 1,530 feet of drill pipe used in the geophysical logging operations.
- 0900 The drilling contractor continues to trip out of the hole with the drill pipe.
- 1000 The drilling contractor continues to trip out of the hole with the drill pipe.
- 1100 The drilling contractor has completed tripping out of the hole with the drill pipe.
- 1115 Florida Spectrum Environmental Services, Inc. technician arrives on site to sample the four pad monitor wells.
- 1400 The drilling contractor is preparing for packer testing.
- 1600 The drilling contractor continues to prepare for packer testing.
- 1800 The drilling contractor continues to prepare for packer testing.
- 1900 The drilling contractor is moving equipment into place in preparation for inflatable packer testing.
- 2000 The drilling contractor is assembling the straddle packers in the derrick and making preparation to run them into the well. The packer test interval will be 1,930 feet to 1,952 feet bpl.
- 2100 The drilling contractor is tripping in the hole with the straddle packer assembly.
- 0000 The drilling contractor continues to trip in the hole with the straddle packer assembly.
- 0130 The drilling contractor continues to trip in the hole with the straddle packer assembly.
- 0315 The drilling contractor is installing the pressure transducer in the annulus on the outside of the drill pipe before securing the floor hatch.
- 0500 The drilling contractor continues to prepare for packer testing.
- 0600 The drilling contractor continues to prepare for packer testing. The packers have been pressured up to 450 psi.



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Daily Construction Log

Date: December 2, 2011
Project: FPL Turkey Point EW
Contractor: Layne Christensen Company
Starting Depth: 3,232 feet bpl
Weather Day: Partly Cloudy, Warm
Weather Night: Cool, Light Rain Late
Activity: Packer Testing

FDEP UIC Permit #: 0293962-001-UC
Well No.: EW-1
Bit Diameter: 12 1/4-inch
Ending Depth: 3,232 feet bpl
Recorded By: Marty Clasen/Eric Meyer

CONSTRUCTION ACTIVITIES

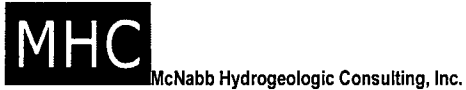
- 0700 Yesterday, the drilling contractor completed geophysical logging from the base of the 34-inch diameter casing to a depth of 3,232 feet below pad level (bpl), and installed the straddle packer assembly for packer test Number 5 (No. 5) to a depth of 1,930 feet bpl.
- 0730 The drilling contractor is preparing to condition the packer interval by air lifting.
- 0830 The drilling contractor is preparing to condition the packer interval by air lifting.
- 0924 The drilling contractor begins air-lift conditioning of the packer test interval.
- 1015 The drilling contractor continues air-lift conditioning of the packer test interval.
- 1130 The drilling contractor continues air-lift conditioning of the packer test interval.
- 1315 The drilling contractor continues air-lift conditioning of the packer test interval. A water sample was collected from the air-lift fluid and turbidity was greater than 900 Nephelometric Turbidity Units (NTU).
- 1430 The drilling contractor continues air-lift conditioning of the packer test interval.
- 1530 The drilling contractor continues air-lift conditioning of the packer test interval.
- 1614 Collected air-lift conditioning water sample after approximately 3,000 gallons or one work pipe volume have been air-lifted from the packer interval.
- 1714 The drilling contractor continues to condition the packer interval by air-lifting. The estimated flow rate is 7 gpm.
- 1800 The drilling contractor continues air-lift conditioning of the packer interval while monitoring water quality changes.
- 1900 The drilling contractor continues air-lift conditioning of the packer interval while monitoring water quality changes.
- 2000 The drilling contractor continues air-lift conditioning of the packer interval while monitoring water quality changes.
- 2100 The drilling contractor continues air-lift conditioning of the packer interval while monitoring water quality changes.
- 2200 The drilling contractor continues air-lift conditioning of the packer interval while monitoring water quality changes.



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- 2300 The drilling contractor continues air-lift conditioning of the packer interval while monitoring water quality changes. There is a small amount of solids settling from the water sample.
- 0000 The drilling contractor continues air-lift conditioning of the packer interval while monitoring water quality changes.
- 0100 The drilling contractor continues air-lift conditioning of the packer interval while monitoring water quality changes.
- 0200 The drilling contractor continues air-lift conditioning of the packer interval while monitoring water quality changes. The water is clear. Water sample turbidity is approximately 50 NTUs.
- 0300 The drilling contractor continues air-lift conditioning of the packer interval while monitoring water quality changes. The water clarity continues to improve.
- 0400 The drilling contractor continues air-lift conditioning of the packer interval while monitoring water quality changes.
- 0500 The drilling contractor continues air-lift conditioning of the packer interval while monitoring water quality changes.
- 0600 The drilling contractor continues air-lift conditioning of the packer interval while monitoring water quality changes.
- 0700 The drilling contractor continues air-lift conditioning of the packer interval while monitoring water quality changes.



Daily Construction Log

Date: December 3, 2011 **FDEP UIC Permit #:** 0293962-001-UC
Project: FPL Turkey Point EW **Well No.:** EW-1
Contractor: Layne Christensen Company **Bit Diameter:** 12 ¼-inch
Starting Depth: 3,232 feet bpl **Ending Depth:** 3,232 feet bpl
Weather Day: Partly Cloudy, Warm **Recorded By:** Marty Clasen/Eric Meyer
Weather Night: Cool and Clear
Activity: Packer Testing

CONSTRUCTION ACTIVITIES

- 0700 Yesterday, the drilling contractor conditioned the packer test interval of 1,930-1,952 feet below pad level (bpl) for packer test number 5 (No. 5) using the air-lift method. The packer test interval was conditioned until clear formation water was produced. The packer test interval was conditioned for approximately 21 hours.
- 0730 The drilling contractor completed conditioning and is preparing to set the submersible pump for the packer testing.
- 0900 The drilling contractor has removed the air-line from the drill pipe and is preparing to install the submersible pump and transducer for the packer test.
- 1000 The drilling contractor completed installing the submersible pump and transducer inside the drill pipe. The pump is set at a depth of 180.62 feet bpl. The transducer is set at a depth of 170.62 feet bpl.
- 1100 The drilling contractor connected the transducer to the computer and confirmed the water level reading of 174.414 feet of water above transducer by checking the depth to water below the header with a water level meter.
- 1200 The drilling contractor conducted a short-term pumping test to determine the flow rate and water level drawdown. The flow rate will be approximately 2 to 4 gpm for the test.
- 1302 The drilling contractor started collecting background water level data using the data logger. Transducers are deployed in the drill pipe above the pump and in the annulus between the drill pipe and the 34-inch casing. Background water level data will be collected for 2 hours.
- 1400 The drilling contractor is continuing the background water level data collection.
- 1516 The drilling contractor started the pumping portion of packer test No. 5.
- 1616 The packer test has been running for one hour with a pumping rate of 2.2 gpm and a drawdown of approximately 49 feet.
- 1716 The packer test has been running for two hours with a pumping rate of 2.0 gpm and a drawdown of approximately 58 feet.
- 1928 The drilling contractor completed the pumping portion of packer test No. 5 and collected a groundwater sample for laboratory analysis. The sample underwent field analysis for pH, conductivity and temperature and will undergo laboratory analysis for total dissolved solids, chloride,



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- 1933 The drilling contractor shutoff the submersible pump for packer test No. 5 and began measurement of the water level during a two hour period of recovery.
- 2141 The period of groundwater level recovery ended and the drilling contractor stopped water level measurements. The drilling contractor began preparation for removal of the pump and transducers used during testing.
- 2235 The drilling contractor began releasing pressure from the packers while removing the test pump and water level transducers.
- 0100 The drilling contractor continues to disassemble and remove the pump and testing equipment.
- 0150 The straddle packer pressurization tubing is back flowing with very little pressure. The drilling contractor has unseated the packers and is preparing to add drill pipe to reposition the packers for packer test No. 6 at the depth of 2,989 feet to 3,011 feet bpl.
- 0400 The drilling contractor continues to slowly lower the straddle packer assembly to the depth for packer test No.6.
- 0500 The drilling contractor continues to install the straddle packer assembly for packer test No. 6.
- 0600 The drilling contractor has installed the packer assembly for packer test No. 6 at a depth of 2,989 to 3,011 feet bpl and is pressuring up the packers.
- 0700 The drilling contractor has inflated the packers and is waiting to assure the packers are set in the formation.



Daily Construction Log

Date: December 4, 2011 **FDEP UIC Permit #:** 0293962-001-UC
Project: FPL Turkey Point EW **Well No.:** EW-1
Contractor: Layne Christensen Company **Bit Diameter:** 12 ¼-inch
Starting Depth: 3,232 feet bpl **Ending Depth:** 3,232 feet bpl
Weather Day: Partly Cloudy, Warm **Recorded By:** Marty Clasen/Eric Meyer
Weather Night: Cool, Intermittent Rain
Activity: Packer Testing

CONSTRUCTION ACTIVITIES

- 0700 Yesterday, the drilling contractor conducted packer test No. 5 over the interval from 1,930 to 1,952 feet below pad level (bpl). After the test, the submersible pump was removed and the packer assembly was lowered to a depth of 2,989 to 3,011 feet bpl in preparation for packer test No. 6. The packers were inflated and seated in the formation.
- 0900 The drilling contractor is installing the air-line inside the drill pipe in preparation for air-lift conditioning of the packer test No. 6 interval.
- 1000 The drilling contractor began air-lift conditioning. The air-lift rate is approximately 150 gpm. The packers are seated, maintaining 450 psi, took weight, and the annulus water level is stable. Since the interval is productive, the packers may be moved up 5 feet and re-set. The new test interval will be from 2,984 to 3,006 feet bpl.
- 1130 The drilling contractor is deflating the packers and has removed the air-line from the drill pipe.
- 1300 The drilling contractor finished deflating the packers and moved the packers up the borehole 5 feet. The packers are being inflated.
- 1400 The drilling contractor has pressured up the packers to 450 psi.
- 1454 The drilling contractor began air-lift conditioning of the packer interval from 2,984 to 3,006 feet bpl. The packers are seated, maintaining 450 psi, took weight, and the annulus water level is stable.
- 1527 After air-lifting the packer interval for 33 minutes, approximately 4,500 gallons of water (as measured by a rope with increments every 6-inches in the slurry tank) were removed from the packer interval, for an approximate pumping rate of 136 gpm.
- 1540 The drilling contractor will shut down packer test No. 6, trip out the drill pipe, remove the straddle packer assemble, install a single off-bottom packer assembly, trip in the assembly to a depth of 3,020 feet bpl and conduct an off-bottom packer test.
- 1630 The drilling contractor is bleeding down the packer pressure in preparation to trip out the packer assembly.
- 1730 The drilling contractor continues to bleed pressure from the straddle packer assembly and perform minor rig maintenance.



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- 1845 The drilling contractor begins removal of the wash pipe from inside the drill pipe in preparation for straddle packer retrieval.
- 1930 The drilling contractor has begun the retrieval of the straddle packer assembly from the well.
- 2200 The drilling contractor continues to remove the drill pipe and straddle packer assembly from the well. Intermittent heavy rain is slowing progress.
- 2310 The drilling contractor continues to remove the drill pipe from the well.
- 0040 The drilling contractor has retrieved the straddle packer assembly and is preparing to remove the lower packer and perforated spacer. The upper packer will be run open-ended and positioned at the depth of 3,020 feet bpl.
- 0155 The drilling contractor has removed the lower packer and is preparing to run the single packer back into the well.
- 0300 The drilling contractor continues to run the packer to 3,020 feet bpl.
- 0430 The drilling contractor continues running the drill pipe and packer into the well.
- 0530 The drilling contractor continues running the drill pipe and packer into the well.
- 0700 The drilling contractor has completed tripping in the borehole with the drill pipe and single packer and is preparing to seat the packer.



Daily Construction Log

Date: December 5, 2011
Project: FPL Turkey Point EW
Contractor: Layne Christensen Company
Starting Depth: 3,232 feet bpl
Weather Day: Clear, Warm
Weather Night: Clear, Warm
Activity: Packer Testing

FDEP UIC Permit #: 0293962-001-UC
Well No.: EW-1
Bit Diameter: 12 1/4-inch
Ending Depth: 3,232 feet bpl
Recorded By: Sally Durall/Deborah Daigle

CONSTRUCTION ACTIVITIES

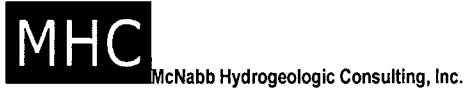
- 0700 Yesterday, the drilling contractor set the packers for packer test Nos. 6 and 6A over the intervals from 2,989 to 3,011 feet below pad level (bpl) and at 2,984 to 3,006 feet bpl, respectively. The tests were terminated due to the interval being productive. Currently the drilling contractor is preparing for packer test No. 7 which will be a single packer test to test the bottom of the borehole over the interval between the depths of 3,020 feet to 3,232 feet bpl. The drilling contractor is currently preparing to inflate the single packer.
- 0900 The contractor continues to prepare to inflate the packer. A transducer has been installed to a depth of approximately 50 feet bpl in the annulus between the work pipe and 34-inch diameter casing.
- 0920 The drilling contractor begins to inflate the packer.
- 1005 The packer has been inflated to approximately 430 pounds per square inch (psi).
- 1030 The drilling contractor begins to trip the air line inside the work pipe.
- 1055 Begin air-lift conditioning for packer test No. 7.
- 1115 The flow rate is estimated at approximately 500 gpm.
- 1135 End of air-lift conditioning. Approximately 19,500 gallons were purged during conditioning of the test interval. The average conditioning flow rate was estimated to be 487 gallons per minute (gpm) based on volume measurements taken from the pit containment. The drilling contractor is preparing to install the pump inside the work pipe to establish a preliminary pumping rate for the pumping portion of packer test No. 7.
- 1345 A 5 horsepower pump has been installed to a depth of 181.9 feet bpl and the transducer to a depth of 171.9 feet bpl (182.2 feet below the flange). The flange is located 10.33 feet above pad level.
- 1435 The drilling contractor begins the preliminary pump test.
- 1447 End of the preliminary pump test. A pumping rate was established at 80 gpm and the drawdown was 1.6 feet during the test. The drilling contractor begins the background recovery data collection.
- 1700 The drilling contractor begins pumping portion of the test for packer test No. 7. The pumping rate is established at 78 gpm.
- 1715 Begin collecting water samples for analysis of field parameters, including pH, temperature, dissolved oxygen, conductivity and turbidity.



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- 1900 Collect a water sample for laboratory analysis of chloride, total dissolved solids (TDS), specific conductivity, total kjeldahl nitrogen (TKN), and ammonia.
- 1908 The drilling contractor stops pumping for packer test No. 7 and will now collect water level data for the recovery portion of the test.
- 2100 The drilling contractor completes data collection for the recovery portion of packer test No. 7. The drilling contractor prepares to trip the drill pipe and packer out of the borehole.
- 2300 The drilling contractor is tripping the drill pipe and packer out of the borehole.
- 0100 The drilling contractor is tripping the drill pipe and packer out of the borehole.
- 0300 The drilling contractor is tripping the drill pipe and packer out of the borehole.
- 0500 The drilling contractor has tripped the drill pipe and packer out of the borehole, and is preparing to trip the 32-inch diameter bit in to the borehole.
- 0630 The drilling contractor is in the process of killing the well.
- 0700 The drilling contractor is preparing to trip in the borehole with the 32-inch diameter bottom hole assembly (BHA).



Daily Construction Log

Date: December 6, 2011 **FDEP UIC Permit #:** 0293962-001-UC
Project: FPL Turkey Point EW **Well No.:** EW-1
Contractor: Layne Christensen Company **Bit Diameter:** 32-inch
Starting Depth: 1,535 feet bpl **Ending Depth:** 1,560 feet bpl
Weather Day: Clear, Warm **Recorded By:** Sally Durall/Deborah Daigle
Weather Night: Mostly Clear, Some Rain, Cool
Activity: Reaming

CONSTRUCTION ACTIVITIES

- 0700 Yesterday, the drilling contractor conducted single packer test No. 7 over the interval from 3,020 feet to 3,232 feet below pad level (bpl). The packer test was completed during the night shift, and the drilling contractor is currently preparing to trip in the borehole with a 32-inch diameter bit to ream the upper portion of the pilot hole which will allow the packers with the larger diameter sleeves (24-inches) to pass through the borehole to perform additional packer testing on the large diameter portion of the pilot hole below the depth of 1,980 feet bpl.
- 0800 The drilling contractor is in the process of tripping in the borehole with the 32-inch diameter bottom hole assembly (BHA).
- 1050 The drilling contractor begins to trip in the borehole with the BHA and drill pipe.
- 1230 The drilling contractor continues to trip in the borehole with the BHA and drill pipe.
- 1400 The drilling contractor continues to trip in the borehole with the BHA and drill pipe.
- 1530 The drilling contractor continues to trip in the borehole with the BHA and drill pipe.
- 1700 The drilling contractor has completed tripping in the hole to near the base of the 34-inch diameter casing. The pilot hole will be reamed with the 32-inch diameter bit from the base of the 34-inch diameter casing (1,535 feet bpl) to a depth of 1,980 feet bpl. The pilot hole from the depth of 1,980 feet to 2,975 feet bpl will be reamed using a 28-inch diameter drilling bit. Packer testing will continue between the depths of 1,980 feet to 2,975 feet bpl. Sleeves will be installed on the packers which will allow testing of a borehole diameter of 26 to 34 inches in diameter.
- 1710 The drilling contractor is filling the mud pits with water in preparation to begin reaming the pilot hole.
- 1800 The drilling contractor begins reaming the pilot hole at a depth of 1,535 feet bpl.
- 2000 The drilling contractor is reaming the pilot hole at a depth of 1,539 feet bpl.



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- 2130 The drilling contractor is reaming the pilot hole at a depth of 1,542 feet bpl.
- 2300 The drilling contractor is reaming the pilot hole at a depth of 1,544 feet bpl.
- 0100 The drilling contractor is reaming the pilot hole at a depth of 1,548 feet bpl.
- 0200 The drilling contractor is reaming the pilot hole at a depth of 1,550 feet bpl.
- 0300 The drilling contractor is reaming the pilot hole at a depth of 1,553 feet bpl.
- 0400 The drilling contractor is reaming the pilot hole at a depth of 1,555 feet bpl.
- 0500 The drilling contractor is reaming the pilot hole at a depth of 1,557 feet bpl.
- 0600 The drilling contractor is reaming the pilot hole at a depth of 1,559 feet bpl.
- 0700 The drilling contractor is reaming the pilot hole at a depth of 1,560 feet bpl.



Daily Construction Log

Date: December 7, 2011 **FDEP UIC Permit #:** 0293962-001-UC
Project: FPL Turkey Point EW **Well No.:** EW-1
Contractor: Layne Christensen Company **Bit Diameter:** 32-inch
Starting Depth: 1,560 feet bpl **Ending Depth:** 1,636 feet bpl
Weather Day: Partly Cloudy, Warm **Recorded By:** Sally Durall/Deborah Daigle
Weather Night: Clear, Cool
Activity: Reaming

CONSTRUCTION ACTIVITIES

- 0700 The drilling contractor began reaming the pilot hole from the base of the 34-inch diameter casing during the night shift. The drilling contractor is currently reaming the pilot hole at a depth of 1,560 feet below pad level (bpl).
- 0730 The kelly is down at a depth of 1,564 feet bpl and the drilling contractor is circulating the borehole clean.
- 0830 The drilling contractor makes a drill pipe (45 foot) connection and resumes drilling the pilot hole from the depth of 1,564 feet bpl.
- 0930 The drilling contractor is reaming the pilot hole at a depth of 1,566 feet bpl.
- 1030 The drilling contractor is reaming the pilot hole at a depth of 1,570 feet bpl.
- 1200 The drilling contractor is reaming the pilot hole at a depth of 1,575 feet bpl.
- 1300 The drilling contractor is reaming the pilot hole at a depth of 1,578 feet bpl.
- 1415 The drilling contractor is reaming the pilot hole at a depth of 1,583 feet bpl.
- 1610 The drilling contractor is reaming the pilot hole at a depth of 1,590 feet bpl.
- 1735 The drilling contractor is reaming the pilot hole at a depth of 1,595 feet bpl.
- 1835 The drilling contractor is reaming the pilot hole at a depth of 1,597 feet bpl.
- 2000 The drilling contractor is reaming the pilot hole at a depth of 1,601 feet bpl.
- 2100 The drilling contractor is reaming the pilot hole at a depth of 1,606 feet bpl.
- 2130 The kelly is down at the depth of 1,609 feet bpl and the drilling contractor is circulating the borehole clean.
- 2200 The drilling contractor trips the deviation survey tool inside the drill pipe to the depth of 1,590 feet bpl.
- 2220 The drilling contractor trips the deviation survey tool out of the drill pipe. The survey result is 0.5 degree.
- 2300 The drilling contractor makes a drill pipe connection and resumes drilling the pilot hole from the depth of 1,609 feet bpl.
- 2330 The drilling contractor is reaming the pilot hole at a depth of 1,609 feet bpl.
- 0100 The drilling contractor is reaming the pilot hole at a depth of 1,613 feet bpl.
- 0200 The drilling contractor is reaming the pilot hole at a depth of 1,618 feet bpl.
- 0300 The drilling contractor is reaming the pilot hole at a depth of 1,622 feet bpl.
- 0400 The drilling contractor is reaming the pilot hole at a depth of 1,626 feet bpl.
- 0500 The drilling contractor is reaming the pilot hole at a depth of 1,630 feet bpl.
- 0600 The drilling contractor is reaming the pilot hole at a depth of 1,634 feet bpl.



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0700 The drilling contractor is reaming the pilot hole at a depth of 1,636 feet bpl.



LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT FPL

Proposed Turkey Point Units 6 and 7

DATE 12-1-2011

JOB # 11771

Docket Nos. 52-040 and 52-041

JOB SITE NAME Ew-1

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Thurs. Daytime

JOB SITE LOCATION Turkey Point

PERSONNEL EMPLOYED TODAY

| Crew Assignment | Employee - Full Name | Per Diem? (X) | Onsite Hours | Offsite Hours | Total Hours |
|-----------------|----------------------|---------------|--------------|---------------|-------------|
| DRILL | Danny Keeley | X | 12 | | 12 |
| MR | Michael A. Ramirez | X | 12 | | 12 |
| A.P. | Andrew Popov | X | 12 | | 12 |
| R/R | BOB FEETMAN | X | 8 | | 8 |

EQUIPMENT DEPLOYED TODAY

| Working | WK | Mob # Location | MB |
|--------------|----|-------------------|----|
| Standby | SB | Demob # Location | MB |
| 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 | 24500 | Onsite Mob/Demob | |
| 3 | 11150 | Job Preparation | |
| 4 | 11200 | Safety Meeting | |
| 5 | 0005 | Trailing - Overhead | |
| 6 | 0006 | Shop - Overhead | |
| 7 | 0007 | Maintenance - Overhead | |
| 8 | 11250 | Trailing - 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 Testing | |
| 17 | 12200 | Borehole 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 | Borehole Abandonment/Cement Pugs | |
| 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 A + Lift and Swab | |
| 32 | 14100 | Disposal of Pkgs & 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 | 88000 | Equipment Repairs | |
| 44 | 90170 | Damages | |
| 45 | 90180 | Job Superintendent | |
| | | Lunch | |
| | | TOTAL HOURS | |

MATERIALS USED TODAY

| Quantity | Description |
|----------|---------------------------|
| | Safety Meetings |
| 1 | Personal Physical Hazards |
| 2 | How to: Tie Knots |

TIME OF ACTIVITY BY ITEM

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

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

PUMP OF SLURRY PAST
 HELP WELDER
 TOO HIGH WITH [unclear] [unclear] LEAVE 1 START TO SEAL WELL
 RIG UP TO RIG [unclear] [unclear]

[Signature]

12-1-11

PAYROLL

[Signature]



LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT F.P.U.

Proposed Turkey Point Units 6 and 7
Docket Nos: 52-040 and 52-041
L-2012-003 Enclosure 1 Page 18 of 38

DATE 12-01-2011
TIME NIGHT

JOB # 11771

JOB SITE NAME EWJ-1

JOB SITE LOCATION T.P.

PERSONNEL EMPLOYED TODAY

| Crew Assignment | Employee - Full Name | Per Diem? (X) | Onsite Hours | Offsite Hours | Total Hours |
|-----------------|----------------------|---------------|--------------|---------------|-------------|
| DRILLER | BOSIT GULOMOV | X | 12 | | 12 |
| V.I | VLAD TSHUMOV | X | 12 | | 12 |
| T.L | JOAN LOPEZ | X | 12 | | 12 |
| T.M | TAMM MCDONNELL | X | 12 | | 12 |

EQUIPMENT DEFINITIONS

| Description | Unit # | Status |
|-------------|--------|--------|
| | | |
| | | |
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| | | |

DAILY ACCOUNTING OF ACTIVITIES BY ITEM #

| Item # | Cost Code | Labor Activity | Hours |
|-------------|-----------|--|-------|
| 1 | 10000 | Short Duration Job | |
| 3 | 11100 | Onsite Mob/Demob | |
| 8 | 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 | 12000 | Foot Hole Drilling | |
| 15 | 12100 | Geophysical Logging & Other Testing | |
| 16 | 12150 | Aquifer Zone Testing | |
| 17 | 12200 | Barohole Abandonment | |
| 18 | 13050 | Production Well Installation | |
| 19 | 13100 | Install Conductor Pipe | |
| 20 | 13150 | Wash Pilot Hole | |
| 21 | 13200 | Geophysical Logging & Other Testing | |
| 22 | 13250 | Aquifer Zone Testing | |
| 23 | 13300 | Barohole Abandonment/Conduit 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 | Wash & Install Test Pump and Discharge | |
| 34 | 14200 | Well 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 | 30000 | Equipment Repairs | |
| 44 | 90170 | Damages | |
| 45 | 90200 | Job Superintendent | |
| | | Lunch | |
| TOTAL HOURS | | | |

MATERIALS USED TODAY

| Quantity | Description |
|----------|--|
| | SAFETY MTG: |
| | |
| | |
| ① | H.I.R.A. |
| | |
| ② | DRIVER DAILY LOGS: |
| | |
| | |
| | HAND SAFETY, PINCH POINT, LOADER SAFETY, |
| | EYE PROTECTION, FALL PROTECTION, |
| | HEARING PROTECTION! |

TIME OF ACTIVITY BY ITEM #

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

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

| |
|--|
| RIG UP: RUN PACKER, 1930 - 1952 T.I.H. |
| 21 STD. D.P. & PRESS PACKER 450 PSI |
| |
| |
| |

Signature

12-1-11

Client Signature

PAYROLL

Job #

Location

Date

Signature



LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT **FPL**
JOB SITE NAME **EW-1**

Proposed Turkey Point Units 6 and 7
Docket Nos. 52-040 and 52-041
L-2012-003 Enclosure 1 Page 19 of 38

DATE **12-02-2011**
Friday Daytime

JOB # **11771**
JOB SITE LOCATION **Turkey Point**

PERSONNEL EMPLOYED TODAY

| Crew Assignment | Employee - Full Name | Per Diem? (X) | Onsite Hours | Offsite Hours | Total Hours |
|-----------------|----------------------|---------------|--------------|---------------|-------------|
| Drill | Danny Keeley | X | 12 | | 12 |
| MK | Michael A. Ramirez | X | 12 | | 12 |
| AR | Andrey Popov | X | 12 | | 12 |
| RKF | Bob Feetham | X | 12 | | 12 |

EQUIPMENT DEPLOYED TODAY

| Description | Unit # | Status |
|--------------|--------|-------------------|
| Working | WK | Mobilization |
| Standby | SB | Demobilization |
| Down in Shop | DS | Available in Yard |
| Down on Site | DN | Available on Job |

DAILY ACCOUNTING OF ACTIVITIES BY ITEM #

| Item # | Cost Code | Labour Activity | Hours |
|--------|-----------|---|-------|
| 1 | 10000 | Short Duration Job | |
| 2 | 11100 | Onsite Mob/Demob | |
| 3 | 11150 | Job Preparation | |
| 4 | 11200 | Safety Meeting | |
| 5 | 0005 | Grading - Overhead | |
| 6 | 0006 | Wop Overhead | |
| 7 | 0007 | Maintenance - Overhead | |
| 8 | 11250 | Traming - Job Chargeable | |
| 9 | 11300 | Site Clean up | |
| 10 | 11350 | Insta# Sound Walls | |
| 11 | 11400 | Insta# Decon Pad | |
| 12 | 11450 | Insta# Surface Casing | |
| 13 | 11500 | Insta# Roadway & Drill Pad | |
| 14 | 12050 | Test Hole Drilling | |
| 15 | 12200 | Geophysical Logging & Other Testing | |
| 16 | 12150 | Aquifer Zone Testing | |
| 17 | 12200 | Worchole Abandonment | |
| 18 | 13050 | Production Well Installation | |
| 19 | 13100 | Insta# Conductor Pipe | |
| 20 | 13150 | Drill Pilot Hole | |
| 21 | 13200 | Geophysical Logging & Other Testing | |
| 22 | 13250 | Aquifer Zone Testing | |
| 23 | 13300 | Worchole Abandonment/Cement Plugs | |
| 24 | 13350 | Roaming | |
| 25 | 13400 | Under Roaming | |
| 26 | 13450 | Instal# Casing | |
| 27 | 13500 | Instal# Screen | |
| 28 | 13550 | Gravel Pack The Well | |
| 29 | 13600 | Instal# 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 | 19050 | Offsite 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 | Job Superintendent | |
| | | Lunch | |
| | | TOTAL HOURS | |

MATERIALS USED TODAY

| Quantity | Description |
|----------|--|
| | Safety Meetings |
| | 1) Packer Testing |
| | 2) Efficient Communication |
| | PPE, ladder safety, High pressure hoses, ladder safety, electrical cord - shock hazards. |

TIME OF ACTIVITY BY ITEM #

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

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

Started Air developing at 9:24 AM Repaired water leak to trailers. Labeled Air/Gas Cylinder storage AREA. Cleared Trip Hazards Off Track Hoe Mound.



LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT F.P.L. Proposed Turkey Point Units 6 and 7
Docket Nos. 52-040 and 52-041
JOB NO. 11771
ENCLOSURE EW-1 L-2012-003 Enclosure 1 Page 20 of 38
PERSONNEL EMPLOYED TODAY

DATE 12-02-11 JOB # 11771
FRI NIGHT
EQUIPMENT EMPLOYED TODAY: _____
DAILY ACCOUNTING INFORMATION FROM _____

| Crew Assignment | Employee Full Name | Per Diem? (X) | Onsite Hours | Offsite Hours | Total Hours |
|-----------------|--------------------|---------------|--------------|---------------|-------------|
| Driller | BOSIL GULCOMOV | X | 12 | | 12 |
| J.M. | JAMES MCDONNELL | X | 12 | | 12 |
| | | | | | |
| | | | | | |
| | | | | | |

| Description | Unit # | Status |
|--------------|--------|-------------------|
| | | |
| | | |
| | | |
| | | |
| | | |
| Working | WK | Mobilization |
| Standby | SB | Demobilization |
| Down in Shop | DS | Available in Yard |
| Down on Site | DN | Available on Job |

| Item # | Cost Code | Labor Activity | Hours |
|-------------|-----------|---|-------|
| 1 | 1000 | Short Duration Job | |
| 2 | 1110 | Onsite Mob/Demob | |
| 3 | 1150 | Job Preparation | |
| 4 | 1180 | Safety Meeting | |
| 5 | 0005 | Training - Overhead | |
| 6 | 0005 | Shop - Overhead | |
| 7 | 0007 | Maintenance - Overhead | |
| 8 | 1125 | Training - Job Chargeable | |
| 9 | 1130 | Site Clean up | |
| 10 | 1135 | Install Sound Walls | |
| 11 | 1140 | Install Decon Pad | |
| 12 | 1145 | Install Surface Casing | |
| 13 | 1150 | Install Roadway & Dr# Pad | |
| 14 | 1200 | Test Hole Drilling | |
| 15 | 1210 | Geophysical Logging & Other Testing | |
| 16 | 1215 | Aquifer Zone Testing | |
| 17 | 1220 | Borehole Abandonment | |
| 18 | 1305 | Production Well Installation | |
| 19 | 1310 | Install Conductor Pipe | |
| 20 | 1315 | Install P&H Hole | |
| 21 | 1320 | Geophysical Logging & Other Testing | |
| 22 | 1325 | Aquifer Zone Testing | |
| 23 | 1330 | Borehole Abandonment/Concrete Plugs | |
| 24 | 1335 | Reaming | |
| 25 | 1340 | Under Reaming | |
| 26 | 1345 | Install Casing | |
| 27 | 1350 | Install Screen | |
| 28 | 1355 | Gravel Pack The Well | |
| 29 | 1360 | Install Annular Seal | |
| 30 | 1365 | Water Watching | |
| 31 | 1405 | Well Development Air Lift and Swab | |
| 32 | 1410 | Disposal of Fluids & Cuttings | |
| 33 | 1415 | Furnish & Install Test Pump and Discharge | |
| 34 | 1420 | Development Pumping | |
| 35 | 1425 | Test Pumping | |
| 36 | 1430 | Disinfection and Chlorination | |
| 37 | 1905 | Offsite Activities Mob/Demob | |
| 38 | 1920 | Shop | |
| 39 | 1915 | Administration | |
| 40 | 1955 | Other Activities Standby | |
| 41 | 1800 | Refring for Lost/Broken Tooling | |
| 42 | 1965 | Change Order Activities | |
| 43 | 8000 | Equipment Repairs | |
| 44 | 90170 | Damages | |
| 45 | 90200 | Job Superintendent | |
| TOTAL HOURS | | | |

| Quantity | Description |
|----------|--------------------|
| | SAFETY MITG: |
| | |
| | ① DUCKER TEST: |
| | |
| | ② ELECTRIC SAFETY: |
| | |
| | |
| | |
| | |

| From | To | Order | Item # |
|------|----|-------|--------|
| | | AM PM | |
| | | AM PM | |
| | | AM PM | |
| | | AM PM | |
| | | AM PM | |
| | | AM PM | |
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| | | AM PM | |
| | | AM PM | |
| | | AM PM | |

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

AIR DEVELOPING: 7-CA 1 MIN.

[Signature]

12-2-11

OFFICER

PAYROLL

SUPERVISOR

[Signature]

APP



LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT FPL
JOB SITE NAME EW-1

Proposed Turkey Point Units 6 and 7
Docket Nos. 52-040 and 52-041
L-2012-003 Enclosure 1 Page 21 of 38

DATE 12-03-2011
SATURDAY Days

JOB # 11771
JOB SITE LOCATION Turkey Point

PERSONNEL EMPLOYED TODAY

Table with columns: Crew Assignment, Employee - Full Name, Per Diem? (X), Onsite Hours, Offsite Hours, Total Hours. Rows include Danny Keeley, Michael A. Ramirez, Andrey Popov, and Bob Feetham.

EQUIPMENT DEPLOYED TODAY

Table with columns: Description, Unit #, Status. Includes sub-tables for Working, Standby, Down In Shop, and Down on Site.

DAILY ACCOUNTING OF ACTIVITIES BY ITEM #

Large table with columns: Item #, Cost Code, Labor Activity, Hours. Lists various activities from 1 to 45, including Short Duration Job, Onsite Mob/Demob, Job Preparation, Safety Meeting, Fracing - Overhead, Shop - Overhead, Maintenance - Overhead, Fracing - Job Chargeable, Site Clean up, Install Sound Walls, Install Decon Pad, Install Surface Casing, Install Roadway & Drill Pad, Test Hole Drilling, Geophysical Logging & Other Testing, Aquifer Zone Testing, Well Pilot Hole, Geophysical Logging & Other Testing, Aquifer Zone Testing, Well Abandonment/Cement Plugs, Reaming, Under Reaming, Install Casing, Install Screen, Gravel Pack The Well, Install Annular Seal, Water Washing, Well Development Air Lift and Swab, Disposal of Fluids & Cuttings, Furnish & Install Test Pump and Discharge, Development Pumping, Test Pumping, Blended Ion and Chlorination, Offsite Activities Mob/Demob, Shop, Administration, Other Activities Standby, Fishing for Lost/Broken Tooling, Change Order Activities, Equipment Repairs, Damages, Job Superintendent, Lunch.

MATERIALS USED TODAY

Table with columns: Quantity, Description. Includes entries for Safety Meetings, Running IN PUMP on tubings, and other materials.

TIME OF ACTIVITY BY ITEM #

Table with columns: From, To, Client's One, Item #. Shows time intervals for various activities.

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

PACKER TESTING
STOP AIR DEVELOP @ 7:AM
START PRE TEST @ 11:58 STOP @ 1.02
RECOVER START TEST @ 3:15
COLLECT DATA AND PUMP SAMPLES.

12-03-11

Handwritten signature



LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT: F.P.L. Proposed Turkey Point Units 6 and 7
Docket Nos. 52-040 and 52-041
DATE: 12-03-2011 SAT NIGHT
JOB #: 11771
LICENSING: T.P.

PERSONNEL EMPLOYED TODAY

Table with columns: Crew Assignment, Employee Full Name, Per Diem? (X), Onsite Hours, Offsite Hours, Total Hours. Includes entries for BOSIT GULOMOV, V.I. VLAD ISHIMOV, and J.M. JAMES MCDONNELL.

EQUIPMENT DEPLOYED TODAY

Table with columns: Description, Unit #, Status. Includes sub-tables for Working, Standby, Down in Shop, Down on Site.

DAILY ACCOUNTING OF ACTIVITIES BY ITEM #

Large table with columns: Item #, Cost Code, Labor Activity, Hours. Lists various activities from Short Duration Job to Job Superintendent.

MATERIALS USED TODAY

Table with columns: Quantity, Description. Includes entries for SAFETY MTG, PINCH POINT, HAND SAFETY, H.I.R.A. R.P.E FALL PROTECTION, and LOADER SAFETY.

TIME OF ACTIVITY BY ITEM #

Table with columns: From, To, Circle One (AM, PM), Item #. Shows time intervals for various items.

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

STOP TEST: 7:30pm. RECOVER-TO- 9:30pm. T.O.H. AIR LINE. + pump; BE/OFF PACKER; T.O.H. 15' + 20' + 3' PUMP; T.I.H. 12 STD. D.P. TOTAL IN HOLE 33 STD. D.P. + 15' + 3' PUMP; PACKER SET 2989' - TO - 3011' PRESS PACKER 450 P.S.F.

Handwritten signature and date 12-03-11

Client's Signature

PAYROLL

Company's Signature

Large handwritten signature



LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT FPL

Proposed Turkey Point Units 6 and 7
Docket Nos. 52-040 and 52-041
L-2012-003 Enclosure 1 Page 23 of 38

DATE 12-4-11
SUN DAY

JOB # 11271
JOB SITE LOCATION T-P

JOB SITE NAME EWZ

PERSONNEL EMPLOYED TODAY

EQUIPMENT EMPLOYED TODAY

DAILY ACCOUNTING OF ACTIVITIES BY ITEM #

| Name | Employee - Job Name | Rate | Start | Stop | Actual |
|------------|---------------------|------|-------|------|--------|
| DP/DRILLER | Danny Keeley | X 12 | | | 12 |
| AP | ANDREY POPOV | X 12 | | | 12 |
| MP | BOB FEETHAM | X 12 | | | 12 |

| Working | MB | Mobile | MB |
|--------------|----|-------------------|----|
| Standby | SB | Demobilization | DM |
| Down in Shop | DS | Available in Yard | AY |
| Down on Site | DN | Available on Job | AV |

| Item # | Cost Code | Labor Activity | Hours |
|--------|-----------|--|-------------|
| 1 | 10000 | Short Duration Job | |
| 2 | 11100 | Onsite Mobil/Demob | |
| 3 | 11150 | Job Preparation | |
| 4 | 11200 | Safety Meeting | |
| 5 | 0005 | Hoisting - Overhead | |
| 6 | 0006 | Hoisting - Overhead | |
| 7 | 0007 | Maintenance - Overhead | |
| 8 | 11250 | Hoisting - Job Chargeable | |
| 9 | 11300 | Site Clean up | |
| 10 | 11350 | Install Sound Walls | |
| 11 | 11400 | Install Decon Pad | |
| 12 | 11450 | Install Surface Coring | |
| 13 | 11500 | Install Roadway & Driv Pad | |
| 14 | 12000 | Install Hoist - Rig | |
| 15 | 12100 | Geophysical Logging & Orient Testing | |
| 16 | 12150 | Visual Core Logging | |
| 17 | 12200 | Install Well Abandonment | |
| 18 | 12050 | Install on Well - Installation | |
| 19 | 12100 | Install Conductor Pipe | |
| 20 | 12150 | Install Hoist | |
| 21 | 12200 | Geophysical Logging & Orient Testing | |
| 22 | 12250 | Install Well Abandonment | |
| 23 | 13000 | Install Well Abandonment/Concret Pigs | |
| 24 | 13050 | Install Coring | |
| 25 | 13100 | Install Drilling | |
| 26 | 13150 | Install Casing | |
| 27 | 13200 | Install Screen | |
| 28 | 13250 | Install Pack The Well | |
| 29 | 13300 | Install Annular Seal | |
| 30 | 13350 | Well Workings | |
| 31 | 14050 | Well Development Air Lift and Swab | |
| 32 | 14100 | Disposal of Fluids & Casing | |
| 33 | 14250 | Pressure & Flow Test Pump and Overhaul | |
| 34 | 24200 | Development Pumping | |
| 35 | 14250 | Cost Pumping | |
| 36 | 14300 | Development and Operation | |
| 37 | 19050 | Offsite Activities Mobil/Demob | |
| 38 | 19100 | Shop | |
| 39 | 19150 | Administration | |
| 40 | 19200 | Supply Activities Standby | |
| 41 | 19250 | Working on Well - Install Casing | |
| 42 | 19300 | Change Order Activities | |
| 43 | 00001 | Hourly person repairs | |
| 44 | 00070 | Damages | |
| 45 | 00000 | Job Superintendent | |
| | | Amount | |
| | | | TOTAL HOURS |

MATERIALS USED TODAY

TIME OF ACTIVITY BY ITEM #

| Item # | Description | Quantity | Unit |
|--------|------------------|----------|------|
| #1 | SAFETY MEETING | | |
| #2 | T.M.C. SUNS RAYS | | |
| #2 | H.I.R.A. | | |

| Item # | Time | Activity | Person |
|--------|-------|----------|--------|
| | 08:00 | AM | PM |
| | 09:00 | AM | PM |
| | 10:00 | AM | PM |
| | 11:00 | AM | PM |
| | 12:00 | AM | PM |
| | 13:00 | AM | PM |
| | 14:00 | AM | PM |
| | 15:00 | AM | PM |
| | 16:00 | AM | PM |
| | 17:00 | AM | PM |
| | 18:00 | AM | PM |
| | 19:00 | AM | PM |
| | 20:00 | AM | PM |
| | 21:00 | AM | PM |
| | 22:00 | AM | PM |
| | 23:00 | AM | PM |
| | 24:00 | AM | PM |

WELLS POSITIONED AT 5!
INFILTRATE WELLS
COMMENTS - WELLS - COMMENTS - OTHER INFORMATION

INFILTRATE WELLS -
TRIP IN 3 STANDS ADDITIONAL
START FOR PERIOD 10:00 AM TO 10:45 AM DELIVER DRILLERS

RE START AIR DEVELOPMENT NEW SITE
RESTART DEVELOPMENT WORK

12-4-11



LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT F.P.C. Proposed Turkey Point Units 6 and 7

DATE 12-4-2011
Sunday Night

JOB# 11771
JOB SITE LOCATION Turkey Point

ENCLOSURE ENC-1 1-2012-003 Enclosure 1 Page 24 of 38

PERSONNEL EMPLOYED TODAY

| Crew Assignment | Employee - Full Name | Per Diem? (X) | Onsite Hours | Offsite Hours | Total Hours |
|-----------------|----------------------|---------------|--------------|---------------|-------------|
| B.G. | Bosif Gulomov | X | 12 | | 12 |
| M.R. | Michael A. Ramirez | X | 12 | | 12 |
| J.M. | James McDonnell | X | 12 | | 12 |
| V.I. | Vlad Ishimov | X | 12 | | 12 |

EQUIPMENT DEPLOYED TODAY

| Description | Unit # | Status |
|--------------|--------|-------------------|
| Working | WK | Mobilization |
| Standby | SB | Demobilization |
| Down in Shop | DS | Available in Yard |
| Down on Site | DN | Available on Job |

DAILY ACCOUNTING OF ACTIVITIES BY WORKER

| Item # | Cost Code | Labor Activity | Hours |
|-------------|-----------|---|-------|
| 1 | 20000 | 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 & Ditch 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 | 13100 | Install Conductor Pipe | |
| 20 | 13150 | Ditch Pilot Hole | |
| 21 | 13200 | Geophysical Logging & Other Testing | |
| 22 | 13250 | Aquifer Zone Testing | |
| 23 | 13300 | Borehole Abandonment/Conment 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 | (N/A) 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 | Installation and Commissioning | |
| 37 | 19050 | Offsite Activities Mob/Demob | |
| 38 | 19100 | Shop | |
| 39 | 19150 | Administration | |
| 40 | 19550 | Offshore 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) Tripping Packer |
| | 2) Hand Safety |
| | Slip/Trip/Fall, PPE, Overhead hazards, pinch points, proper lifting |

TIME OF ACTIVITY BY ITEM #

| Item # | From | To | Grade | One | Item # |
|--------|------|----|-------|-----|--------|
| | | | AM | PM | |
| | | | AM | PM | |
| | | | AM | PM | |
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| | | | AM | PM | |
| | | | AM | PM | |
| | | | AM | PM | |

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

TOOTH Packer Double Packer, T.I.H. single packer, 33 stands
 + 45' + 3' packer set 2989' - 3011'

[Signature]

12-4-11

Operator's Signature

PAYROLL

Supervisor

[Signature]

Date



LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT FPL

Proposed Turkey Point Units 6 and 7

DATE 12-5-11 MONDAY

JOB# 11771

JOB SITE NAME EW7

Docket Nos. 52-040 and 52-041

L-2012-003 Enclosure 1 Page 25 of 38

JOB SITE LOCATION

PERSONNEL EMPLOYED TODAY

Table with columns: Class, Employee Name, Job Description, Start Time, End Time, Total Hours. Includes names like Denny Keller, A.P. ANDREY POPOV, BOB FEETMAN, Juan Lopez, CORRY TRACY, and FREDDIE LOPEZ.

EMPLOYEE STATUS

Table with columns: Description, Unit #, Status. Includes sub-tables for Working, Standby, Down in Shop, Down on Site, Mobilization, Demobilization, Available in Yard, Available on Job.

DAILY ACCOUNTING OF ACTIVITIES BY ITEM #

Large table with columns: Item #, Cost Code, Description, Hours. Lists various activities and their durations.

MAJOR WORK ITEMS

Table with columns: Quantity, Description. Includes items like SAFETY MEETING, PACKET TESTING, STAYING OFF THE FLOOR WHILE TESTING.

TIME BY ACTIVITY

Table with columns: From, To, Cycle One, Item #. Tracks time spent on different activities.

INCIDENTS, EVENTS, CHANGES, CHANGES, OTHER INFORMATION

SET AND INFLATE PACKET @ 3020' BPZ RUN 3 STANDS AIR LINE AND AIR DEVELOP WELL RUN SUBMERSIBLE PUMP AND PSE TEST @ 80' STOP PSE TEST @ 247' START RECOVERY 'TART' TEST @ 5 PM

Handwritten signature of Karl [Name]



LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT F.P.L.
JOBSTNAME ENE-1

Proposed Turkey Point Units 6 and 7
Docket Nos. 52-040 and 52-041
L-2012-003 Enclosure 1 Page 26 of 38

DATE 12-05-2011
MON NIGHT

JOB # 11771
CREEK LOCATION T.P.

| Crew | Employee - Full Name | Per Diem? | Onsite Hours | Offsite Hours | Total Hours |
|---------|----------------------|-----------|--------------|---------------|-------------|
| Driller | BOSIL GULOMOV | X | 12 | | 12 |
| V.I. | VIAH SHALIMOV | X | 12 | | 12 |
| J.M. | JAMES McDONNELL | Y | 12 | | 12 |
| A.L. | ALEXEY LUKINYKH | X | 12 | | 12 |

| Description | Unit | Status |
|-------------|------|--------|
| | | |
| | | |
| | | |

| Item # | Cost Code | Labor Activity | Hours |
|--------|-----------|-----------------------------|-------|
| 1 | 1000 | ... | |
| 2 | 1100 | ... | |
| 3 | 1110 | Job Preparation | |
| 4 | 1120 | Job Setup | |
| 5 | 0005 | Job S.S. - Check | |
| 6 | 0006 | Job Oversight | |
| 7 | 0007 | Job Oversight - Oversight | |
| 8 | 1125 | Job Site - Job Chargeable | |
| 9 | 1130 | Job Cleanup | |
| 10 | 1135 | Job S.S. Sound Work | |
| 11 | 1140 | Job S.S. Ocean Pad | |
| 12 | 1145 | Job Site Surface Clearing | |
| 13 | 1150 | Job Site Remediation | |
| 14 | 1200 | Job Site Prep | |
| 15 | 1210 | Job Site Logging & Clearing | |
| 16 | 1215 | Job Site Erosion Control | |
| 17 | 1220 | Job Site Abandonment | |
| 18 | 1225 | Job Site Well Installation | |
| 19 | 1310 | Job Site Material | |
| 20 | 1315 | Job Site Prep | |
| 21 | 1320 | Job Site Logging & Clearing | |
| 22 | 1325 | Job Site Erosion Control | |
| 23 | 1330 | Job Site Remediation | |
| 24 | 1335 | Job Site Prep | |
| 25 | 1340 | Job Site Well Installation | |
| 26 | 1345 | Job Site Surface Clearing | |
| 27 | 1350 | Job Site Remediation | |
| 28 | 1355 | Job Site Prep | |
| 29 | 1360 | Job Site Well Installation | |
| 30 | 1365 | Job Site Surface Clearing | |
| 31 | 1370 | Job Site Remediation | |
| 32 | 1375 | Job Site Prep | |
| 33 | 1380 | Job Site Well Installation | |
| 34 | 1385 | Job Site Surface Clearing | |
| 35 | 1390 | Job Site Remediation | |
| 36 | 1395 | Job Site Prep | |
| 37 | 1400 | Job Site Well Installation | |
| 38 | 1405 | Job Site Surface Clearing | |
| 39 | 1410 | Job Site Remediation | |
| 40 | 1415 | Job Site Prep | |
| 41 | 1420 | Job Site Well Installation | |
| 42 | 1425 | Job Site Surface Clearing | |
| 43 | 1430 | Job Site Remediation | |
| 44 | 1435 | Job Site Prep | |
| 45 | 1440 | Job Site Well Installation | |
| 46 | 1445 | Job Site Surface Clearing | |
| 47 | 1450 | Job Site Remediation | |
| 48 | 1455 | Job Site Prep | |
| 49 | 1460 | Job Site Well Installation | |
| 50 | 1465 | Job Site Surface Clearing | |
| 51 | 1470 | Job Site Remediation | |
| 52 | 1475 | Job Site Prep | |
| 53 | 1480 | Job Site Well Installation | |
| 54 | 1485 | Job Site Surface Clearing | |
| 55 | 1490 | Job Site Remediation | |
| 56 | 1495 | Job Site Prep | |
| 57 | 1500 | Job Site Well Installation | |
| 58 | 1505 | Job Site Surface Clearing | |
| 59 | 1510 | Job Site Remediation | |
| 60 | 1515 | Job Site Prep | |
| 61 | 1520 | Job Site Well Installation | |
| 62 | 1525 | Job Site Surface Clearing | |
| 63 | 1530 | Job Site Remediation | |
| 64 | 1535 | Job Site Prep | |
| 65 | 1540 | Job Site Well Installation | |
| 66 | 1545 | Job Site Surface Clearing | |
| 67 | 1550 | Job Site Remediation | |
| 68 | 1555 | Job Site Prep | |
| 69 | 1560 | Job Site Well Installation | |
| 70 | 1565 | Job Site Surface Clearing | |
| 71 | 1570 | Job Site Remediation | |
| 72 | 1575 | Job Site Prep | |
| 73 | 1580 | Job Site Well Installation | |
| 74 | 1585 | Job Site Surface Clearing | |
| 75 | 1590 | Job Site Remediation | |
| 76 | 1595 | Job Site Prep | |
| 77 | 1600 | Job Site Well Installation | |
| 78 | 1605 | Job Site Surface Clearing | |
| 79 | 1610 | Job Site Remediation | |
| 80 | 1615 | Job Site Prep | |
| 81 | 1620 | Job Site Well Installation | |
| 82 | 1625 | Job Site Surface Clearing | |
| 83 | 1630 | Job Site Remediation | |
| 84 | 1635 | Job Site Prep | |
| 85 | 1640 | Job Site Well Installation | |
| 86 | 1645 | Job Site Surface Clearing | |
| 87 | 1650 | Job Site Remediation | |
| 88 | 1655 | Job Site Prep | |
| 89 | 1660 | Job Site Well Installation | |
| 90 | 1665 | Job Site Surface Clearing | |
| 91 | 1670 | Job Site Remediation | |
| 92 | 1675 | Job Site Prep | |
| 93 | 1680 | Job Site Well Installation | |
| 94 | 1685 | Job Site Surface Clearing | |
| 95 | 1690 | Job Site Remediation | |
| 96 | 1695 | Job Site Prep | |
| 97 | 1700 | Job Site Well Installation | |
| 98 | 1705 | Job Site Surface Clearing | |
| 99 | 1710 | Job Site Remediation | |
| 100 | 1715 | Job Site Prep | |

MATERIALS USED TODAY

TIME OF ACTIVITY BY ITEM #

SAFETY MITG:
① HOUSEKEEPING!
② PPE PERSONAL PROTECTION
HAND SAFETY: PINK PRINT!
LOADER SAFETY: H.I.R.A.!

| Item # | Time | Crew | Other |
|--------|-------|------|-------|
| 1 | 07:00 | AM | PM |
| 2 | 07:15 | AM | PM |
| 3 | 07:30 | AM | PM |
| 4 | 07:45 | AM | PM |
| 5 | 08:00 | AM | PM |
| 6 | 08:15 | AM | PM |
| 7 | 08:30 | AM | PM |
| 8 | 08:45 | AM | PM |
| 9 | 09:00 | AM | PM |
| 10 | 09:15 | AM | PM |
| 11 | 09:30 | AM | PM |
| 12 | 09:45 | AM | PM |
| 13 | 10:00 | AM | PM |
| 14 | 10:15 | AM | PM |
| 15 | 10:30 | AM | PM |
| 16 | 10:45 | AM | PM |
| 17 | 11:00 | AM | PM |
| 18 | 11:15 | AM | PM |
| 19 | 11:30 | AM | PM |
| 20 | 11:45 | AM | PM |
| 21 | 12:00 | AM | PM |
| 22 | 12:15 | AM | PM |
| 23 | 12:30 | AM | PM |
| 24 | 12:45 | AM | PM |
| 25 | 13:00 | AM | PM |
| 26 | 13:15 | AM | PM |
| 27 | 13:30 | AM | PM |
| 28 | 13:45 | AM | PM |
| 29 | 14:00 | AM | PM |
| 30 | 14:15 | AM | PM |
| 31 | 14:30 | AM | PM |
| 32 | 14:45 | AM | PM |
| 33 | 15:00 | AM | PM |
| 34 | 15:15 | AM | PM |
| 35 | 15:30 | AM | PM |
| 36 | 15:45 | AM | PM |
| 37 | 16:00 | AM | PM |
| 38 | 16:15 | AM | PM |
| 39 | 16:30 | AM | PM |
| 40 | 16:45 | AM | PM |
| 41 | 17:00 | AM | PM |
| 42 | 17:15 | AM | PM |
| 43 | 17:30 | AM | PM |
| 44 | 17:45 | AM | PM |
| 45 | 18:00 | AM | PM |

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

STOP TEST - 9:00 PM RECOVERED - TD - 9:00 PM BE OFF
PACKER: T.O.H. AIR LINE + JUMP # 45' + 3'
T.O.H. PACKED!
USED 3 TONS of Salt to maintain water flow

[Signature]

12-5-11
Date

Crew's Signature

PAYROLL

[Signature]

Job #



LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT FPL Proposed Turkey Point Units 6 and 7
JOB SITE NAME EW-1 Docket Nos. 52-040 and 52-041 L-2012-003 Enclosure 1 Page 27 of 38

DATE 12-06-2011 Tuesday class

JOB # 11771 JOB SITE LOCATION Turkey Point

PERSONNEL EMPLOYED TODAY

Table with columns: Crew Assignment, Employee - Full Name, Per Diem?, Onsite Hours, Offsite Hours, Total Hours. Includes entries for Michael A. Ramirez, Joan Lopez, Carey Tracey, and Freddie Lopez.

MATERIALS USED TODAY

Table with columns: Quantity, Description. Includes entries for Safety Meetings, 1) Tripping IN the Hole, 2) Hand Tool Selection & Design, welder safety, PPE, loader safety, overhead dangers, torch safety.

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

Make up BHA 32" bit. Help welder fabricate collar C-plates. TIH 32" bit, 17 stands. 3 Air line. Drilling 32" bit from 1535 bpl to 1536' Bpl.

TIME OF ACTIVITY BY ITEM #

Table with columns: Description, Unit #, Status, Working, Standby, Down in Shop, Down on Site, Mobile on, Demobilization, Available in Yard, Available on Job.

LIST OF ACTIVITY BY ITEM #

Table with columns: Item #, Cost Code, Labor Activity, Hours. Lists various activities such as Short Duration Job, Job Preparation, Safety Meeting, Training, etc.

Handwritten signature/initials

12/06/2011

Client's Signature

PAYROLL

Date

Prepared by Signature

Large handwritten signature

Time



LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT F.P.L. Proposed Turkey Point Units 6 and 7
Docket Nos. 52-040 and 52-041
JOB SITE NAME EW-1 L-2012-003 Enclosure 1 Page 28 of 38

DATE 12-06-2011
THE NIGHT

JOB # 11771

PROJECT LOCATION T.P.

PERSONNEL EMPLOYED TODAY

Table with columns: Crew Assignment, Employee - Full Name, Per Diem? (X), Onsite Hours, Offsite Hours, Total Hours. Rows include BOSIT GULOMOV, VLAD ISHIMOV, JAMES MCDONNELL, and ALEXEY LINKINIKH.

EQUIPMENT DEPLOYED TODAY

Table with columns: Description, Unit #, Status. Includes sub-sections for Working, Standby, Down in Shop, Down on Site, Mobilization, Demobilization, Availability in Yard, Availability on Job.

DAILY ACCOUNTING OF ACTIVITIES BY ITEM #

Large table with columns: Item #, Cost Code, Labor Activity, Hours. Lists various activities like 'Short Duration Job', 'Casing Mob/Demob', 'Job Preparation', etc.

MATERIALS USED TODAY

Table with columns: Quantity, Description. Includes 'SAFETY MTG.', 'VISUAL HAZARD IDENTIFICATION', 'SHORING AND TRENCHING', and safety notes like 'HAND SAFETY: PINCH POINT, LOADER SAFETY!'.

TIME OF ACTIVITY BY ITEM #

Table with columns: From, To, Code One, Item #. Shows time slots for various activities.

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

DRILL 32" BIT - FROM - 1536' B.P.L. - TO - 1560' B.P.L.
SITE CLEAN UP, CLEAN M.C.E. + HOUSE + HOUSEKEEPING.

Signature

12.6.11

PAYROLL

Signature



LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT: FPL Proposed Turkey Point Units 6 and 7
Docket Nos. 52-040 and 52-041
L-2012-003 Enclosure 1 Page 29 of 38

DATE: 12-7-2011
Wed. Days

JOB # 11771
JOB SITE LOCATION Turkey Point

PERSONNEL EMPLOYED TODAY

Table with columns: Crew Assignment, Employee - Full Name, Per Diem? (X), Onsite Hours, Offsite Hours, Total Hours. Includes names: Michael A. Ramirez, Joan Lopez, Cory Tracey, Freddie Lopez.

EQUIPMENT DEPLOYED TODAY

Table with columns: Description, Unit #, Status. Includes categories: Working, Standby, Down in Shop, Down on Site.

DAILY ACCOUNTING OF ACTIVITIES BY ITEM #

Large table with columns: Item #, Cost Code, Labor Activity, Hours. Lists various activities like 'Short Duration on Job', 'Onsite Mobilization', 'Safety Meeting', etc.

MATERIALS USED TODAY

Table with columns: Quantity, Description. Includes 'Safety Meetings' and 'welding torch safety, PPE, overhead hazards, proper lifting techniques'.

TIME OF ACTIVITY BY ITEM #

Table with columns: From, To, Circle One (AM/PM), Item #. Shows time intervals for various items.

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

Drilling from 1560' bbl to 1597' bbl
Made Connection one single whip joint. Helped welder install flow line Brackett. Site walk for Environmental Hazards. Silt Fence Repair. Continue Help Welder.

Signature: M. Ramirez

Date: 12/7/2011

Client's Signature

PAYROLL

Date

Supervisor's Signature

Signature: [Handwritten]

Date



LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT F.P.L. Proposed Turkey Point Units 6 and 7
 Docket Nos. 52-040 and 52-041
 JOBSITE NAME E-12-71-2012-003 Enclosure 1 Page 30 of 38

DATE 12-07-11
WED NIGHT

JOB # 11771
 SUPERVISOR T.P.

| Crew Assignment | Employee - Full Name | Per Diem? (X) | Onsite Hours | Offsite Hours | Total Hours |
|-----------------|----------------------|---------------|--------------|---------------|-------------|
| DRILLER | BOSIT GULOMOV | X | 13 | | 13 |
| | V.I VLAD ISHIMOV | X | 13 | | 13 |
| | J.M JAMES McDONNELL | X | 12 | | 12 |
| | A.L ALEXEY LINKINYKH | X | 12 | | 12 |

| Description | Unit # | Status |
|--------------|--------|----------------------|
| Working | WK | Mobilization MB |
| Standby | SB | Demobilization DM |
| Down in Shop | DS | Available in Yard AY |
| Down on Site | DN | Available on Job AV |

| 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 | 0003 | Training - Overhead | |
| 6 | 0006 | Shop - Overhead | |
| 7 | 0007 | Maintenance - Overhead | |
| 8 | 11250 | Training - Job Changeable | |
| 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 Testing | |
| 17 | 12200 | Borehole 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 | Borehole 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 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 | 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 |
|----------|-------------------------------|
| | SAFETY MTC; |
| ① | DRIVER DAILY LOGS; |
| ② | TIRE MAINTENANCE AND SAFETY; |
| | HAND SAFETY' PPE: 4:1:1:1 |
| | HIGH PRESS LINE: PINCH POINT; |

TIME OF ACTIVITY BY ITEM #

| From | To | Circ One | Item # |
|------|----|----------|--------|
| | | AM PM | |
| | | AM PM | |
| | | AM PM | |
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| | | AM PM | |
| | | AM PM | |

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

Drill 32" BIT: FROM - 1597' BPL TO - 1609' BPL.
 RUN SERVE IS MAKE CONNECTION: BACK DRILL FROM - 1609' BPL - TO - 1636' BPL - SERVICE WASH PIPE;

Signature

12-07-11

Crew's Signature


PAYROLL


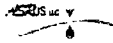
Date


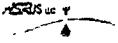
Payroll #

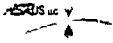
Item


Signature

| Project: | | Florida Power & Light Company Miami-Dade County, Florida Exploratory Well EW-1 | | | | | | MHC  | |
|---|--------------|--|-------------------------------|---------------------------------|-----------------|------------|-------------------------|--|--|
| 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 | | |
| <p>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</p> <p>*Results appear to be anomalous and are suspected to be related to a sampling error. Countermeasures to prevent reoccurrence have been implemented. Note: TOC elevation is: 8.88 feet NAVD 88</p> | | | | | | | | | |

| 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 | 29,900 | 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 | |
| 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 | | |
| 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 | | | | | | MHC  | |
|--|--------------|--|-------------------------------|---------------------------------|-----------------|------------|-------------------------|--|--|
| 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 | | |
| 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 | | | | | | | |

| <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="background-color: black; color: white; padding: 5px; font-weight: bold; font-size: 24px;">MHC</div> <div style="text-align: center;"> <p>Florida Power & Light Company Turkey Point Exploratory Well EW-1 Packer Test Summary Table</p> </div> <div style="text-align: right;">  </div> </div> | | | |
|--|-----------------|-------|--|
| Test # | Depth (ft. bpl) | | Notes |
| | From | To | |
| 5 | 1,930 | 1,952 | Specific capacity = 0.03 gpm/foot. Performed with 20" packers |
| 6 | 2,989 | 3,011 | Packer test abandoned due to test interval conditioning production rate. |
| 6A | 2,984 | 3,006 | Packer test abandoned due to test interval conditioning production rate. |
| 7 | 3,020 | 3,232 | Specific capacity = 49 gpm/foot. Performed with single-opened ended 20" packer |

ft. bpl = feet below pad level

| Pilot Hole | | | Reamed Hole | | |
|------------|---------------------|--------------------------|-------------|---------------------|--------------------------|
| Date | Depth (feet bpl) | Inclination (degrees) | Date | Depth (feet bpl) | Inclination (degrees) |
| 5/13/2011 | 90 | 0.2 | 5/20/2011 | 90 | 0.5 |
| 5/14/2011 | 180 | 0.4 | 5/24/2011 | 180 | 0.4 |
| 6/3/2011 | 270 | 0.5 | 6/6/2011 | 270 | 0.0 |
| 5/29/2011 | 345 | 0.3 | 6/8/2011 | 360 | 0.1 |
| 5/29/2011 | 435 | 0.4 | 6/9/2011 | 450 | 0.2 |
| 5/30/2011 | 524 | 0.4 | 6/10/2011 | 540 | 0.3 |
| 5/30/2011 | 614 | 0.0 | 6/12/2011 | 630 | 0.5 |
| 5/31/2011 | 704 | 0.2 | 6/14/2011 | 720 | 0.4 |
| 5/31/2011 | 794 | 0.3 | 6/15/2011 | 810 | 0.4 |
| 5/31/2011 | 884 | 0.3 | 6/16/2011 | 900 | 0.3 |
| 6/1/2011 | 974 | 0.5 | 6/18/2011 | 990 | 0.4 |
| 6/1/2011 | 1,064 | 0.5 | 7/23/2011 | 1,080 | 0.1 |
| 7/1/2011 | 1,154 | 0.6 | 7/25/2011 | 1,170 | 0.4 |
| 7/1/2011 | 1,244 | 0.3 | 7/26/2011 | 1,260 | 0.5 |
| 7/1/2011 | 1,334 | 0.4 | 7/27/2011 | 1,350 | 0.2 |
| 7/2/2011 | 1,424 | 0.4 | 7/29/2011 | 1,440 | 0.3 |
| 7/2/2011 | 1,514 | 0.5 | 8/10/2011 | 1,530 | 0.5 |
| 7/3/2011 | 1,604 | 0.5 | 12/7/2011 | 1,590 | 0.5 |
| 8/13/2011 | 1,664 | 0.1 | | | |
| 8/15/2011 | 1,724 | 0.0 | | | |
| 8/15/2011 | 1,784 | 0.1 | | | |
| 8/16/2011 | 1,844 | 0.4 | | | |
| 8/16/2011 | 1,904 | 0.4 | | | |
| 8/17/2011 | 1,964 | 0.1 | | | |
| 8/19/2011 | 2,024 | 0.3 | | | |
| 8/19/2011 | 2,084 | 0.5 | | | |
| 8/20/2011 | 2,144 | 0.2 | | | |
| 8/20/2011 | 2,204 | 0.0 | | | |
| 8/22/2011 | 2,264 | 0.0 | | | |
| 8/25/2011 | 2,324 | 0.1 | | | |
| 8/25/2011 | 2,384 | 0.1 | | | |
| 8/26/2011 | 2,444 | 0.2 | | | |
| 8/26/2011 | 2,504 | 0.0 | | | |
| 8/29/2011 | 2,564 | 0.4 | | | |
| 8/31/2011 | 2,624 | 0.3 | | | |
| 9/4/2011 | 2,684 | 0.4 | | | |
| 9/4/2011 | 2,744 | 0.4 | | | |
| 9/4/2011 | 2,804 | 0.3 | | | |
| 9/5/2011 | 2,864 | 0.4 | | | |
| 9/5/2011 | 2,924 | 0.3 | | | |
| 9/5/2011 | 2,984 | 0.4 | | | |
| 9/6/2011 | 3,044 | 0.1 | | | |
| 9/6/2011 | 3,104 | 0.5 | | | |
| 9/7/2011 | 3,164 | 0.4 | | | |

bpl = below pad level

| Florida Power & Light Company Turkey Point Exploratory Well EW-1 Daily Kill Material Log | | | | |
|---|---------------------|----------------------------|---------------------------------|----------------------------------|
| Date | Depth (feet bpl) | Kill Used | Approximate Volume (gallons) | Approximate Quantity (pounds) |
| 7/7/2011 | 1655 | Bentonite /Barite | 569 | |
| 7/8/2011 | 1655 | Bentonite /Barite | 6,064 | |
| 7/9/2011 | 1655 | Bentonite /Barite | 2,085 | |
| 7/10/2011 | 1655 | Bentonite /Barite | 1,137 | |
| 7/11/2011 | 1655 | Bentonite /Barite | 9,475 | |
| 7/12/2011 | 1655 | Bentonite /Barite | 759 | |
| 7/13/2011 | 1655 | Bentonite /Barite | 4,548 | |
| 7/15/2011 | 1655 | Bentonite /Barite | 1,925 | |
| 7/16/2011 | 1655 | Bentonite /Barite | 2,200 | |
| 7/17/2011 | 1655 | Bentonite /Barite | 284 | |
| 7/18/2011 | 1655 | Bentonite /Barite | 275 | |
| 7/19/2011 | 1655 | Bentonite /Barite | 275 | |
| 7/31/2011 | 1542 | Bentonite /Barite | 18,950 | |
| 8/1/2011 | 1542 | Bentonite /Barite | 4,548 | |
| 8/2/2011 | 1542 | Bentonite /Barite | 284 | |
| 8/5/2011 | 1542 | Bentonite /Barite | 4,548 | |
| 8/6/2011 | 1542 | Bentonite /Barite | 2,274 | |
| 8/10/2011 | 1542 | Bentonite /Barite | 6,443 | |
| 8/10/2011 | 1542 | Salt | | 2,000 |
| 8/13/2011 | 1722 | Bentonite /Barite | 6,250 | |
| 8/14/2011 | 1722 | Bentonite /Barite | 379 | |
| 8/17/2011 | 2026 | Salt | | 2,000 |
| 8/18/2011 | 2026 | Bentonite /Barite | 379 | 2,000 |
| 8/19/2011 | 2110 | Bentonite/Barite and Salt | 570 | 2,000 |
| 8/20/2011 | 2110 | Bentonite /Barite and Salt | 189 | 4,000 |
| 8/21/2011 | 2288 | Salt | | 6,000 |
| 8/22/2011 | 2288 | Salt | | 4,000 |
| 8/24/2011 | 2396 | Bentonite /Barite and Salt | 379 | 2,000 |
| 8/25/2011 | 2396 | Salt | | 4,000 |
| 8/26/2011 | 2576 | Bentonite /Barite and Salt | 379 | 2,000 |
| 8/28/2011 | 2580 | Bentonite /Barite and Salt | 379 | 6,000 |
| 8/30/2011 | 2638 | Salt | | 4,000 |
| 8/31/2011 | 2638 | Bentonite /Barite/Salt | 569 | 2,000 |
| 9/1/2011 | 2652 | Bentonite /Barite | 379 | |
| 9/2/2011 | 2666 | Salt | | 2,000 |
| 9/3/2011 | 2666 | Bentonite /Barite | 569 | |
| 9/10/2011 | 3214 | Salt | | 6,000 |
| 9/11/2011 | 3210 | Salt | | 4,000 |
| 9/19/2011 | 3227 | Salt | | 4,000 |

| Florida Power & Light Company | | | | |
|--|-----------------------------|------------------|---|--|
| Turkey Point | | | | |
| Exploratory Well EW-1 | | | | |
| Daily Kill Material Log | | | | |
| Date | Depth (feet bpl) | Kill Used | Approximate Volume (gallons) | Approximate Quantity (pounds) |
| 9/22/2011 | 3228 | Salt | | 4,000 |
| 10/9/2011 | 3220 | Salt | | 6,000 |
| 10/10/2011 | 3220 | Salt | | 6,000 |
| 10/12/2011 | 3227 | Salt | | 4,000 |
| 10/23/2011 | 3234 | Salt | | 6,000 |
| 10/29/2011 | 3211 | Salt | | 6,000 |
| 11/7/2011 | 3223 | Salt | | 6,000 |
| 11/19/2011 | 3232 | Salt | | 4,000 |
| 11/28/2011 | 3232 | Salt | | 4,000 |
| 12/6/2011 | 3232 | Salt | | 6,000 |

feet bpl = feet below pad level

Proposed Turkey Point Units 6 and 7
Docket Nos. 52-040 and 52-041
L-2012-003 Enclosure 2 Page 1 of 38

Enclosure 2

Florida Power & Light Company Turkey Point Units 6 & 7
Exploratory Well Project; Permit #0293962-001-UC
Weekly Construction Summary #32 dated December 16, 2011

WEEKLY CONSTRUCTION SUMMARY



McNabb Hydrogeologic Consulting, Inc.

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

December 16, 2011

MHCDEP-11-0556

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 #32**

Dear Mr. May:

This is the thirty-second weekly construction summary for the above referenced project. The reporting period for this weekly construction summary began at 7:00 AM, Thursday, December 8, 2011 and ended at 7:00 AM, Thursday, December 15, 2011. 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 performed a straddle packer test over the interval from 1,930 to 1,952 feet below pad level (bpl) and an open-ended bottom single packer test over the interval from 3,020 feet bpl to the base of the pilot hole at 3,232 feet bpl. The drilling contractor then began reaming the upper portion of the pilot hole in preparation for performing additional packer tests using large diameter packers. Reaming had reached a depth of 1,636 feet bpl by the end of the previous reporting period.

During this reporting period, the drilling contractor reamed the interval from 1,636 to 1,960 feet bpl using a 32-inch diameter bit. The reaming was performed in preparation for performing additional packer tests using large diameter packers. The large diameter packers are needed to perform packer testing in larger diameter portions of the pilot hole that could not be packer tested with the smaller straddle packers used for the previous tests. Deviation surveys were performed at 60-foot intervals during reaming. A deviation survey summary is attached. Packer test water sample laboratory reports for packer tests performed during the previous reporting period have been received from the laboratory and are attached. A daily kill material log providing a summary of daily kill material and kill quantity is also attached. At the end of the reporting period, the drilling contractor was cleaning out the borehole with a 12 ¼-inch diameter drill bit to a depth of 2,000 feet bpl in preparation for performing a packer test over the interval from 1,970 to 1,992 feet bpl.

There was no casing installation, cementing, geophysical logging or exploratory well development and no lithologic samples were collected during this reporting period. There were no construction related issues during this reporting period.

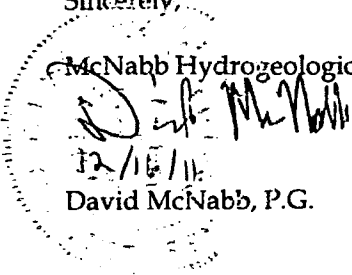
During the next reporting period, it is anticipated that the drilling contractor will complete reaming in preparation for additional packer testing.

In addition, sampling of the pad monitor wells began on April 21, 2011 and has been taking place on a weekly basis since the initial sampling. The pad monitor wells were most recently sampled on December 15, 2011. The most recent set of pad monitoring well sample results available are for samples collected on December 8, 2011. Sampling of the pad monitor wells around EW-1 will continue until drilling and testing of EW-1 has been completed. Copies of the 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.



12/16/11
David McNabb, P.G.

Attachments: Consultant Daily Construction Log
Layne Christensen Company-Drilling Shift Report
Pad Monitor Well Water Quality Data Summary Sheets
Deviation Survey Summary Sheet
Daily Kill Material Log
Packer Test Water Sample Laboratory Reports

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

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



Daily Construction Log

Date: December 8, 2011
Project: FPL Turkey Point EW
Contractor: Layne Christensen Company
Starting Depth: 1,636 feet bpl
Weather Day: Mostly Cloudy, Cool
Weather Night: Cloudy, Warm
Activity: Reaming

FDEP UIC Permit #: 0293962-001-UC
Well No.: EW-1
Bit Diameter: 32-inch
Ending Depth: 1,699 feet bpl
Recorded By: Sally Durall/Deborah Daigle

CONSTRUCTION ACTIVITIES

- 0700 Yesterday, the drilling contractor reamed the pilot hole from the depth of 1,560 feet to 1,636 feet below pad level (bpl).
- 0800 The drilling contractor is reaming the pilot hole at a depth of 1,641 feet bpl.
- 0930 The drilling contractor is reaming the pilot hole at a depth of 1,644 feet bpl.
- 1020 Florida Spectrum Environmental Services is on site to sample the pad monitor wells.
- 1030 The drilling contractor is reaming the pilot hole at a depth of 1,645 feet bpl.
- 1145 The drilling contractor is reaming the pilot hole at a depth of 1,648 feet bpl.
- 1300 The drilling contractor is reaming the pilot hole at a depth of 1,650 feet bpl.
- 1410 The kelly is down at a depth of 1,654 feet bpl and the drilling contractor is circulating the borehole clean.
- 1445 The drilling contractor trips the deviation survey tool inside the drill pipe to the depth of 1,650 feet bpl.
- 1515 The drilling contractor trips the deviation survey tool out of the drill pipe. The survey result is 0.5 degree.
- 1525 The drilling contractor makes a drill pipe (45 foot) connection and resumes drilling the pilot hole from the depth of 1,654 feet bpl.
- 1630 The drilling contractor is reaming the pilot hole at a depth of 1,656 feet bpl.
- 1745 The drilling contractor is reaming the pilot hole at a depth of 1,659 feet bpl.
- 1830 The drilling contractor is reaming the pilot hole at a depth of 1,661 feet bpl.
- 1930 The drilling contractor is reaming the pilot hole at a depth of 1,664 feet bpl.
- 2100 The drilling contractor is reaming the pilot hole at a depth of 1,669 feet bpl.
- 2200 The drilling contractor is reaming the pilot hole at a depth of 1,673 feet bpl.
- 2300 The drilling contractor is reaming the pilot hole at a depth of 1,677 feet bpl.
- 0000 The drilling contractor is reaming the pilot hole at a depth of 1,680 feet bpl.
- 0100 The drilling contractor is reaming the pilot hole at a depth of 1,682 feet bpl.
- 0200 The drilling contractor is reaming the pilot hole at a depth of 1,685 feet bpl.
- 0330 The drilling contractor is reaming the pilot hole at a depth of 1,689 feet bpl.
- 0515 The drilling contractor is reaming the pilot hole at a depth of 1,695 feet bpl.
- 0540 The kelly is down at the depth of 1,699 feet bpl and the drilling contractor is circulating the borehole clean.



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- 0610 The drilling contractor removes the 45 foot drill pipe section and will replace with a 90 foot drill pipe stand.
- 0700 The drilling contractor is in the process of making a drill pipe connection.



McNabb Hydrogeologic Consulting, Inc.



Daily Construction Log

Date: December 9, 2011 **FDEP UIC Permit #:** 0293962-001-UC
Project: FPL Turkey Point EW **Well No.:** EW-1
Contractor: Layne Christensen Company **Bit Diameter:** 32-inch
Starting Depth: 1,699 feet bpl **Ending Depth:** 1,763 feet bpl
Weather Day: Mostly Cloudy, Warm **Recorded By:** Sally Durall/Deborah Daigle
Weather Night: Partly Cloudy, Warm, Late Rain
Activity: Reaming

CONSTRUCTION ACTIVITIES

- 0700 Yesterday, the drilling contractor reamed the pilot hole from the depth of 1,636 feet to 1,699 feet below pad level (bpl). The drilling contractor is currently in the process of making a drill pipe connection.
- 0720 The drilling contractor makes the drill pipe connection and resumes drilling from a depth of 1,699 feet bpl.
- 0930 The drilling contractor is reaming the pilot hole at a depth of 1,701 feet bpl.
- 1045 The drilling contractor is reaming the pilot hole at a depth of 1,705 feet bpl.
- 1210 The drilling contractor is reaming the pilot hole at a depth of 1,710 feet bpl.
- 1355 The drilling contractor is reaming the pilot hole at a depth of 1,715 feet bpl.
- 1540 The drilling contractor is reaming the pilot hole at a depth of 1,720 feet bpl.
- 1645 The drilling contractor is reaming the pilot hole at a depth of 1,724 feet bpl.
- 1745 The drilling contractor is reaming the pilot hole at a depth of 1,727 feet bpl.
- 1900 The drilling contractor is reaming the pilot hole at a depth of 1,731 feet bpl.
- 2000 The drilling contractor is reaming the pilot hole at a depth of 1,734 feet bpl.
- 2130 The drilling contractor is reaming the pilot hole at a depth of 1,739 feet bpl.
- 2245 The kelly is down at a depth of 1,744 feet bpl and the drilling contractor is circulating the borehole clean.
- 2335 The drilling contractor trips the deviation survey tool inside the drill pipe to the depth of 1,710 feet bpl.
- 0005 The drilling contractor trips the deviation survey tool out of the drill pipe. The survey result is 0.5 degree.
- 0010 The drilling contractor makes a drill pipe connection and resumes drilling the pilot hole from the depth of 1,744 feet bpl.
- 0100 The drilling contractor is reaming the pilot hole at a depth of 1,746 feet bpl.
- 0200 The drilling contractor is reaming the pilot hole at a depth of 1,749 feet bpl.
- 0300 The drilling contractor is reaming the pilot hole at a depth of 1,752 feet bpl.
- 0400 The drilling contractor is reaming the pilot hole at a depth of 1,755 feet bpl.
- 0500 The drilling contractor is reaming the pilot hole at a depth of 1,758 feet bpl.
- 0600 The drilling contractor is reaming the pilot hole at a depth of 1,761 feet bpl.
- 0700 The drilling contractor is reaming the pilot hole at a depth of 1,763 feet bpl.



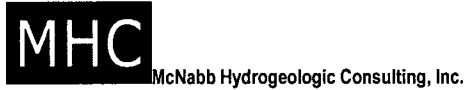
Daily Construction Log

Date: December 10, 2011
Project: FPL Turkey Point EW
Contractor: Layne Christensen Company
Starting Depth: 1,763 feet bpl
Weather Day: Mostly Clear, Warm
Weather Night: Partly Cloudy, Warm
Activity: Reaming

FDEP UIC Permit #: 0293962-001-UC
Well No.: EW-1
Bit Diameter: 32-inch
Ending Depth: 1,811 feet bpl
Recorded By: Sally Durall/Deborah Daigle

CONSTRUCTION ACTIVITIES

- 0700 Yesterday, the drilling contractor reamed the pilot hole from the depth of 1,699 feet to 1,763 feet below pad level (bpl).
- 0840 The drilling contractor is reaming the pilot hole at a depth of 1,770 feet bpl.
- 1005 The drilling contractor is reaming the pilot hole at a depth of 1,773 feet bpl.
- 1125 The drilling contractor is reaming the pilot hole at a depth of 1,774 feet bpl.
- 1300 The drilling contractor is reaming the pilot hole at a depth of 1,775 feet bpl.
- 1430 The drilling contractor is reaming the pilot hole at a depth of 1,776 feet bpl.
- 1545 The drilling contractor is reaming the pilot hole at a depth of 1,777 feet bpl.
- 1650 The drilling contractor is reaming the pilot hole at a depth of 1,780 feet bpl.
- 1745 The drilling contractor is reaming the pilot hole at a depth of 1,783 feet bpl.
- 1830 The drilling contractor is reaming the pilot hole at a depth of 1,785 feet bpl.
- 1930 The kelly is down at a depth of 1,789 feet bpl and the drilling contractor is circulating the borehole clean.
- 2037 The drilling contractor trips the deviation survey tool inside the drill pipe to the depth of 1,770 feet bpl.
- 2111 The drilling contractor trips the deviation survey tool out of the drill pipe. The survey result is 0.5 degree.
- 2115 The drilling contractor makes a drill pipe connection and resumes drilling the pilot hole from the depth of 1,789 feet bpl.
- 2330 The drilling contractor is reaming the pilot hole at a depth of 1,793 feet bpl.
- 0030 The drilling contractor is reaming the pilot hole at a depth of 1,796 feet bpl.
- 0130 The drilling contractor is reaming the pilot hole at a depth of 1,799 feet bpl.
- 0230 The drilling contractor is reaming the pilot hole at a depth of 1,802 feet bpl.
- 0330 The drilling contractor is reaming the pilot hole at a depth of 1,805 feet bpl.
- 0430 The drilling contractor is reaming the pilot hole at a depth of 1,808 feet bpl.
- 0530 The drilling contractor is reaming the pilot hole at a depth of 1,810 feet bpl.
- 0615 The drilling contractor has reamed the pilot hole to a depth of 1,811 feet bpl and currently has stopped reaming to perform rig maintenance.
- 0700 The drilling contractor continues rig maintenance.



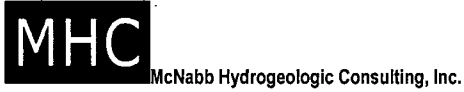
Daily Construction Log

Date: December 11, 2011
Project: FPL Turkey Point EW
Contractor: Layne Christensen Company
Starting Depth: 1,811 feet bpl
Weather Day: Some Rain, Warm
Weather Night: Partly Cloudy, Warm
Activity: Reaming

FDEP UIC Permit #: 0293962-001-UC
Well No.: EW-1
Bit Diameter: 32-inch
Ending Depth: 1,834 feet bpl
Recorded By: Sally Durall/Deborah Daigle

CONSTRUCTION ACTIVITIES

- 0700 Yesterday, the drilling contractor reamed the pilot hole from the depth of 1,763 feet to 1,811 feet below pad level (bpl). The drilling contractor is currently performing rig maintenance.
- 0900 The drilling contractor continues performing rig maintenance.
- 1100 The drilling contractor continues performing rig maintenance.
- 1310 The drilling contractor resumes reaming the pilot hole from a depth of 1,811 feet bpl.
- 1400 The drilling contractor is reaming the pilot hole at a depth of 1,812 feet bpl.
- 1515 The drilling contractor is reaming the pilot hole at a depth of 1,813 feet bpl.
- 1635 The drilling contractor is reaming the pilot hole at a depth of 1,815 feet bpl.
- 1710 The drilling contractor stops drilling to check noise on the rig. The borehole remains at a depth of 1,815 feet bpl.
- 1740 Large dolomite rock cuttings were lodged between the drill pipe and air line. The drilling contractor removed the cuttings and resumes reaming the pilot hole at a depth of 1,815 feet bpl.
- 1800 The drilling contractor is reaming the pilot hole at a depth of 1,815 feet bpl.
- 1930 The drilling contractor is reaming the pilot hole at a depth of 1,816 feet bpl.
- 2100 The drilling contractor is reaming the pilot hole at a depth of 1,817 feet bpl.
- 2200 The drilling contractor is reaming the pilot hole at a depth of 1,818 feet bpl.
- 2330 The drilling contractor is reaming the pilot hole at a depth of 1,820 feet bpl.
- 0100 The drilling contractor is reaming the pilot hole at a depth of 1,823 feet bpl.
- 0200 The drilling contractor is reaming the pilot hole at a depth of 1,826 feet bpl.
- 0300 The drilling contractor is reaming the pilot hole at a depth of 1,828 feet bpl.
- 0400 The drilling contractor is reaming the pilot hole at a depth of 1,831 feet bpl.
- 0500 The kelly is down at a depth of 1,834 feet bpl and the drilling contractor is circulating the borehole clean.
- 0555 The drilling contractor trips the deviation survey tool inside the drill pipe to the depth of 1,830 feet bpl.
- 0620 The drilling contractor trips the deviation survey tool out of the drill pipe. The survey result is 0.5 degree.
- 0640 The drilling contractor makes a drill pipe (45 foot) connection and resumes reaming the pilot hole from the depth of 1,834 feet bpl.

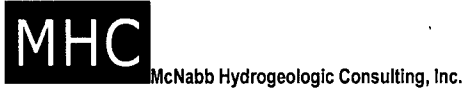


Daily Construction Log

Date: December 12, 2011 **FDEP UIC Permit #:** 0293962-001-UC
Project: FPL Turkey Point EW **Well No.:** EW-1
Contractor: Layne Christensen Company **Bit Diameter:** 32-inch
Starting Depth: 1,834 feet bpl **Ending Depth:** 1,897 feet bpl
Weather Day: Partly Cloudy, Warm **Recorded By:** Sally Durall/Marty Clasen
Weather Night: Partly Cloudy, Mild
Activity: Reaming

CONSTRUCTION ACTIVITIES

- 0700 Yesterday, the drilling contractor reamed the pilot hole from the depth of 1,811 feet to 1,834 feet below pad level (bpl). The drilling contractor is currently reaming the pilot hole at a depth of 1,834 feet bpl.
- 0800 The drilling contractor is reaming the pilot hole at a depth of 1,836 feet bpl.
- 0900 The drilling contractor is reaming the pilot hole at a depth of 1,839 feet bpl.
- 1030 The drilling contractor is reaming the pilot hole at a depth of 1,842 feet bpl.
- 1215 The drilling contractor is reaming the pilot hole at a depth of 1,847 feet bpl.
- 1335 The drilling contractor is reaming the pilot hole at a depth of 1,850 feet bpl.
- 1430 The drilling contractor is reaming the pilot hole at a depth of 1,851 feet bpl.
- 1540 The drilling contractor is reaming the pilot hole at a depth of 1,853 feet bpl.
- 1700 The drilling contractor is reaming the pilot hole at a depth of 1,858 feet bpl.
- 1800 The drilling contractor is reaming the pilot hole at a depth of 1,861 feet bpl.
- 1900 The drilling contractor is reaming the pilot hole at a depth of 1,865 feet bpl.
- 2000 The drilling contractor is reaming the pilot hole at a depth of 1,867 feet bpl.
- 2100 The drilling contractor is reaming the pilot hole at a depth of 1,868 feet bpl.
- 2200 The drilling contractor is reaming the pilot hole at a depth of 1,870 feet bpl.
- 2300 The drilling contractor is reaming the pilot hole at a depth of 1,872 feet bpl.
- 0015 The drilling contractor is reaming the pilot hole at a depth of 1,878 feet bpl.
- 0130 The drilling contractor is reaming the pilot hole at a depth of 1,879 feet bpl.
- 0300 The drilling contractor is reaming the pilot hole at a depth of 1,882 feet bpl.
- 0430 The drilling contractor is reaming the pilot hole at a depth of 1,888 feet bpl.
- 0530 The drilling contractor is reaming the pilot hole at a depth of 1,892 feet bpl.
- 0700 The drilling contractor is reaming the pilot hole at a depth of 1,897 feet bpl.



Daily Construction Log

Date: December 13, 2011
Project: FPL Turkey Point EW
Contractor: Layne Christensen Company
Starting Depth: 1,897 feet bpl
Weather Day: Cloudy, Rain, Warm
Weather Night: Rainy, windy, mild
Activity: Reaming

FDEP UIC Permit #: 0293962-001-UC
Well No.: EW-1
Bit Diameter: 32-inch
Ending Depth: 1,960 feet bpl
Recorded By: Sally Durall/Marty Clasen

CONSTRUCTION ACTIVITIES

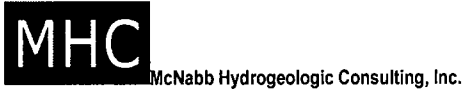
- 0700 Yesterday, the drilling contractor reamed the pilot hole from the depth of 1,834 feet to 1,897 feet below pad level (bpl). The drilling contractor is currently reaming the pilot hole at a depth of 1,897 feet bpl.
- 0730 The drilling contractor stops reaming the pilot hole at a depth of 1,903 feet bpl to perform maintenance on the wash pipe.
- 0755 The drilling contractor resumes reaming the pilot hole from a depth of 1,903 feet bpl.
- 0900 The drilling contractor is reaming the pilot hole at a depth of 1,908 feet bpl.
- 1035 The drilling contractor is reaming the pilot hole at a depth of 1,915 feet bpl.
- 1140 The drilling contractor is reaming the pilot hole at a depth of 1,919 feet bpl.
- 1235 The kelly is down at a depth of 1,924 feet bpl. The drilling contractor is circulating the borehole clean in preparation of performing a deviation survey.
- 1310 The drilling contractor trips the deviation survey tool inside the drill pipe to the depth of 1,890 feet bpl.
- 1325 The drilling contractor trips the deviation survey tool out of the drill pipe. The survey result is 0.3 degree.
- 1350 The drilling contractor makes a drill pipe (45 foot) connection and resumes drilling the pilot hole from the depth of 1,924 feet bpl.
- 1500 The drilling contractor is reaming the pilot hole at a depth of 1,929 feet bpl.
- 1630 The drilling contractor is reaming the pilot hole at a depth of 1,934 feet bpl.
- 1730 The drilling contractor has reamed the pilot hole to a depth of 1,938 feet bpl and is currently circulating the borehole clean.
- 1900 The drilling contractor is currently circulating the borehole at a depth of 1,918 feet bpl.
- 2015 The drilling contractor and has started to slowly lower the drill bit down to the previously reamed depth of 1,938 feet bpl.
- 2050 The drilling contractor is reaming the pilot hole at a depth of 1,938 feet bpl.
- 2130 The drilling contractor is reaming the pilot hole at a depth of 1,939 feet bpl.
- 2230 The drilling contractor is reaming the pilot hole at a depth of 1,943 feet bpl.
- 2330 The drilling contractor is reaming the pilot hole at a depth of 1,945 feet bpl.
- 0030 The drilling contractor is reaming the pilot hole at a depth of 1,947 feet bpl.
- 0130 The drilling contractor is reaming the pilot hole at a depth of 1,950 feet bpl.



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- 0230 The drilling contractor is reaming the pilot hole at a depth of 1,952 feet bpl.
- 0330 The drilling contractor is reaming the pilot hole at a depth of 1,955 feet bpl.
- 0430 The drilling contractor is reaming the pilot hole at a depth of 1,958 feet bpl.
- 0520 The drilling contractor is reaming the pilot hole at a depth of 1,960 feet bpl.
- 0530 The drilling contractor is circulating the pilot hole at a depth of 1,960 feet bpl.
- 0700 The drilling contractor continues circulating the borehole clean.



Daily Construction Log

Date: December 14, 2011 **FDEP UIC Permit #:** 0293962-001-UC
Project: FPL Turkey Point EW **Well No.:** EW-1
Contractor: Layne Christensen Company **Bit Diameter:** 32-inch
Starting Depth: 1,960 feet bpl **Ending Depth:** 1,960 feet bpl
Weather Day: Partly Cloudy, Warm **Recorded By:** S.Durall/E.Meyer/M.Clasen
Weather Night: Intermittent Lt Rain, Cool
Activity: Preparing for Packer Testing

CONSTRUCTION ACTIVITIES

- 0700 Yesterday, the drilling contractor reamed the pilot hole from the depth of 1,897 feet to 1,960 feet below pad level (bpl). The drilling contractor is currently circulating the borehole clean in preparation to trip out of the borehole with the drill pipe and bottom-hole assembly (BHA).
- 0720 The drilling contractor begins to remove the air line.
- 0750 The drilling contractor begins to trip out of the hole with the drill pipe and BHA.
- 0900 The drilling contractor continues to trip out of the borehole with the drill pipe and BHA.
- 1000 The drilling contractor continues to trip out of the borehole with the drill pipe and BHA.
- 1045 The drilling contractor begins adding salt to the well to kill the well.
- 1145 The drilling contractor has the BHA at the rig floor and is beginning disassembly.
- 1245 The drilling contractor continues to disassemble and remove components of the BHA from the well.
- 1500 The drilling contractor is running the 12 1/4- inch bit into the well to tag bottom and remove any accumulated cuttings.
- 1700 The drilling contractor is servicing the drill rig's top-head-drive.
- 1800 The drilling contractor is continuing to service the drill rig's top-head-drive.
- 1930 The drilling contractor is continuing to service the drill rig's top-head-drive.
- 2100 The drilling is running the drill pipe into the borehole to clear the hole of cuttings to a depth of 2,000 feet bpl.
- 2200 The drilling contractor continues running the drill pipe into the borehole.
- 2300 The drilling contractor continues running the drill pipe into the borehole.
- 0020 The drilling contractor completed running in the drill pipe to a depth of 2,000 feet bpl. The drilling contractor will circulate at a depth of 2,000 feet bpl for approximately 2 hours to make sure the borehole is clear.
- 0130 The drilling contractor continues to circulate the borehole at a depth of 2,000 feet bpl.
- 0200 The drilling contractor continues to circulate the borehole at a depth of 2,000 feet bpl.



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- 0310 The drilling contractor has started to remove the drill pipe and 12 ¼ -inch bit in preparation to install the straddle packer assembly.
- 0430 The drilling contractor continues to remove the drill pipe from the borehole.
- 0600 The drilling contractor continues to remove the drill pipe from the borehole.
- 0700 The drilling contractor continues to remove the drill pipe from the borehole.



LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT FPL Proposed Turkey Point Units 6 and 7
 Docket Nos. 52-040 and 52-041
 JOBSITE NAME Ew-1 L-2012-003 Enclosure 2 Page 14 of 38

DATE 12-8-2011
Thurs; Days

JOB # 11771
 JOBSITE LOCATION Turkey Point

PERSONNEL EMPLOYED TODAY

| Crew Assignment | Employee - Full Name | Per Diem? (X) | Onsite Hours | Offsite Hours | Total Hours |
|-----------------|----------------------|---------------|--------------|---------------|-------------|
| Driller MR | Michael A. Ramirez | X | 12 | | 12 |
| Val | Joan Lopez | X | 12 | | 12 |
| VM | Victor Moiseyev | X | 12 | | 12 |
| A.B. | AKmal Burkhanov | X | 12 | | 12 |
| CLT | Cory Tracey | X | 12 | | 12 |

EQUIPMENT DEPLOYED TODAY

| Description | Unit # | Status |
|--------------|--------|-------------------|
| Working | W | Mobilized on |
| Standby | SB | Demobilized on |
| Down in Shop | DS | Available in Yard |
| Down on Site | DN | Available on Job |

DAILY ACCOUNTING OF ACTIVITIES BY ITEM

| Item # | Cost Code | Labor Activity | Hours |
|-------------|-----------|---|-------|
| 1 | 10000 | Short Duration Job | |
| 2 | 11100 | Final Mobilization | |
| 3 | 11150 | Job Preparation | |
| 4 | 11200 | Safety Meeting | |
| 5 | 0005 | Drilling - Overhead | |
| 6 | 0006 | Shop - Overhead | |
| 7 | 0007 | Maintenance - Overhead | |
| 8 | 11250 | Drilling - Job Chargeable | |
| 9 | 11300 | Tool Clean up | |
| 10 | 11350 | Install Sound Walls | |
| 11 | 11400 | Install Decon Pad | |
| 12 | 11450 | Install Surface Cas ing | |
| 13 | 11500 | Install Roadway & Driv Pad | |
| 14 | 12050 | Test Ho e Drilling | |
| 15 | 12100 | Geophysical Logging & Other Testing | |
| 16 | 12150 | Aquifer Zone Testing | |
| 17 | 12200 | 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 | Abandonment/Cement Rings | |
| 24 | 13350 | Drilling | |
| 25 | 13400 | Indoor Rooming | |
| 26 | 13450 | Install Cas ing | |
| 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 | 19050 | Final Activities Mobilization | |
| 38 | 19100 | Shop | |
| 39 | 19150 | Adminstration | |
| 40 | 19550 | Other Activities Standby | |
| 41 | 19600 | Fishing for Lost/Broken Tools | |
| 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 Meeting |
| 1) | Personal Protection |
| 2) | Watching out |
| 3) | Taking Care of New Employees |
| | PPE, Slip-Trip-Falls, loader safety, overhead dangers |
| | Pinch/crush points, eye/sun path |

TIME OF ACTIVITY BY ITEM

| From | To | Grade One | Item # |
|------|----|-----------|--------|
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| | | AM PM | |

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

Drilling 32" bit 1636' bbl to 1660' bbl
 Helped welder, Made connection I.H. one single whip joint.
 Deviation Survey ran to 1650' (5°), continue Help welder, unload Truck

M. Ramirez

12/8/2011

Client's Signature

PAYROLL

Ker

Supervisor's Signature

Date



LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT FPL

Proposed Turkey Point Units 6 and 7

DATE 12-8-11

JOB # 11771

JOBSITE NAME FWZ

Docket Nos. 52-040 and 52-041
L-2012-003 Enclosure 2 Page 15 of 38

THURS

JOBSITE LOCATION TP

PERSONNEL EMPLOYED TODAY

| Crew Assignment | Employee - Full Name | Per Diem? (X) | Onsite Hours | Offsite Hours | Total Hours |
|-----------------|-----------------------|---------------|--------------|---------------|-------------|
| <u>PT</u> | <u>DANNY KEELEY</u> | X | 12 | | 12 |
| <u>A.P.</u> | <u>ANDREY POPOV</u> | X | 12 | | 12 |
| <u>RIF</u> | <u>BOB FEETHAM</u> | X | 12 | | 12 |
| <u>A.P.</u> | <u>ALEX POLYANSKY</u> | X | 12 | | 12 |

MATERIALS USED TODAY

| Quantity | Description |
|-----------|-----------------------------------|
| <u>#1</u> | <u>SAFETY MEETING</u> |
| <u>#2</u> | <u>DONT GET DISTRACTED</u> |
| <u>#2</u> | <u>OPERATE BASIC RIG CONTROLS</u> |

EMPLOYEE EXPLORE TOTALS

| Description | Unit # | Status |
|--------------|--------|-------------------|
| Working | WK | Mobilization |
| Standby | SB | Demobilization |
| Down in Shop | DS | Available in Yard |
| Down on Site | DN | Available on job |

TIME OF ACTIVITY BY ITEM #

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

DAILY ACCOUNTING OF ACTIVITIES BY ITEM #

| Item # | Cost Code | Labor Activity | Hours |
|--------|-----------|---|-------|
| 1 | 1000D | Short Duration Job | |
| 2 | 1110D | Onsite Mob/Demob | |
| 3 | 1115D | Job Preparation | |
| 4 | 1120D | Safety Meeting | |
| 5 | 0005 | Training - Overhead | |
| 6 | 0006 | Shop - Overhead | |
| 7 | 0007 | Maintenance - Overhead | |
| 8 | 1125D | Training - Job Chargeable | |
| 9 | 1130D | Site Clean up | |
| 10 | 1135D | Install Sound Walls | |
| 11 | 1140D | Install Decon Pad | |
| 12 | 1145D | Install Surface Coating | |
| 13 | 1150D | Install Roadway & Driv Pad | |
| 14 | 1205D | Test Hole Drilling | |
| 15 | 1210D | Geophysical Logging & Other Testing | |
| 16 | 1215D | Aquifer Zone Testing | |
| 17 | 1220D | Wellhole Abandonment | |
| 18 | 1305D | Production Well Installation | |
| 19 | 1310D | Install Conductor Pipe | |
| 20 | 1315D | Drill Pilot Hole | |
| 21 | 1320D | Geophysical Logging & Other Testing | |
| 22 | 1325D | Aquifer Zone Testing | |
| 23 | 1330D | Wellhole Abandonment/ Cement Plugs | |
| 24 | 1335D | Reaming | |
| 25 | 1340D | Under Reaming | |
| 26 | 1345D | Install Casing | |
| 27 | 1350D | Install Screen | |
| 28 | 1355D | Gravel Pack The Well | |
| 29 | 1360D | Install Annular Seal | |
| 30 | 1365D | Water Watching | |
| 31 | 1405D | Well Development Air Lift and Swab | |
| 32 | 1410D | Disposal of Fluids & Cuttings | |
| 33 | 1415D | Furnish & Install Test Pump and Discharge | |
| 34 | 1420D | Development Pumping | |
| 35 | 1425D | Test Pumping | |
| 36 | 1430D | Disinfection and Chlorination | |
| 37 | 1905D | Offsite Activities Mob/Demob | |
| 38 | 1910D | Shop | |
| 39 | 1915D | Administration | |
| 40 | 1955D | Other Activities Standby | |
| 41 | 1960D | Fishing for Lost/Broken Tooling | |
| 42 | 1965D | Change Order Activities | |
| 43 | 8800D | Equipment Repairs | |
| 44 | 9017D | Damages | |
| 45 | 9020D | Job Superintendent | |
| | | Lunch | |
| | | TOTAL HOURS | |

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

REAM 3 1/2" BJT FROM 1660' BPL TO 1690' BPL
MAKE CONNECTION
TAKE DOWN HURRICANE CABLES
BUILD TOOL RACKS
CLEAN UP LOCATION

12-8-11

[Handwritten signature]



LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT FPL Proposed Turkey Point Units 6 and 7
 Docket Nos. 52-040 and 52-041
 JOB SITE NAME EUT L-2012-003 Enclosure 2 Page 17 of 38

DATE 12-9-11
FRI

JOB # 11771
 JOB SITE LOCATION TP

PERSONNEL EMPLOYED TODAY

| Crew Assignment | Employee - Full Name | Per Diem? (X) | Onsite Hours | Offsite Hours | Total Hours |
|-----------------|-----------------------------|---------------|--------------|---------------|-------------|
| <u>Prime</u> | <u>Danny Keeley</u> | <u>X</u> | <u>12</u> | | <u>12</u> |
| | <u>A.P. ANDREY KUPOV</u> | <u>X</u> | <u>12</u> | | <u>12</u> |
| | <u>RKF BOB FEETHAM</u> | <u>X</u> | <u>12</u> | | <u>12</u> |
| | <u>A.P. ALEX PLUTANSKIY</u> | <u>X</u> | <u>12</u> | | <u>12</u> |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

EQUIPMENT DEPLOYED TODAY

| Description | Unit # | Status |
|--------------|--------|-------------------|
| Working | WK | Mobilization |
| Standby | SB | Demobilization |
| Down in Shop | DS | Available in Yard |
| Down on Site | DM | Available on Job |

DAILY ACCOUNTING OF ACT VITRES BY ITEM #

| Item # | Cost Code | Labor Activity | Hours |
|-------------|-----------|---|-------|
| 1 | 10000 | Short Duration Job | |
| 2 | 11100 | Final Mob/Demob | |
| 3 | 11150 | Job Preparation | |
| 4 | 11200 | Safety Meeting | |
| 5 | 0905 | 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 | 11800 | 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 | 13100 | Install Conductor Pipe | |
| 20 | 13150 | Drill Hole | |
| 21 | 13200 | Geophysical Logging & Other Testing | |
| 22 | 13250 | Aquifer Zone Testing | |
| 23 | 13300 | Borehole 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 Watching | |
| 31 | 14050 | Well Development Air Lift and Swab | |
| 32 | 14100 | Disposal of Ruds & Cuttings | |
| 33 | 14150 | Permitting, 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 | 88000 | Equipment Repairs | |
| 44 | 90170 | Damages | |
| 45 | 90200 | Job Superintendent | |
| | | Lunch | |
| TOTAL HOURS | | | |

MATERIALS USED TODAY

| Quantity | Description |
|-----------|---|
| | <u>SAFETY MEETING</u> |
| <u>#7</u> | <u>CUTTING STEEL & PROPTOOL USE</u> |
| <u>#2</u> | <u>SURVEY TOOL</u> |
| | |
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TIME OF ACTIVITY BY ITEM #

| From | To | Order | Items |
|------|----|-------|-------|
| | | AM | PM |
| | | AM | PM |
| | | AM | PM |
| | | AM | PM |
| | | AM | PM |
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COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

CONTINUE REAMING 32" BIT 7 29' BPL TO 1743' BPL
CONNECTION SURVEY @ 0.5
RESUME REAMING 32" BIT 1743' BPL TO 1763' BPL
CLEAR SIGHT MOP MCLS
BUILD GUARDRAIL FOR MOUNTAIN WELLS

12-9-11

[Handwritten Signature]



LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT FPL Proposed Turkey Point Units 6 and 7
Docket Nos. 52-040 and 52-041
L-2012-003 Enclosure 2 Page 18 of 38

DATE 12/10/2011
Site Days

JOB # 11771
JOB SITE LOCATION Turkey Point

PERSONNEL EMPLOYED TODAY

Table with columns: Crew Assignment, Employee - Full Name, Per Diam? (X), Onsite Hours, Offsite Hours, Total Hours. Rows include Michael A. Ramirez, Cory Tracey, Victor Moiseyev, and Akmal Burkhanov.

EMPLOYMENT DEPLOYED TODAY

Table with columns: Description, Unit #, Status. Includes sub-tables for Working, Standby, Down in Shop, Down on Site, Mobilization, Demobilization, Available in Yard, Available on Job.

DAILY ACCOUNTING OF ACTIVITIES BY ITEM #

Large table with columns: Item #, Cost Code, Labor Activity, Hours. Lists 45 items of activities such as Short Duration Job, Onsite Mob/Demob, Safety Meeting, Training, etc.

MATERIALS USED TODAY

Table with columns: Quantity, Description. Includes entries for Safety Meetings, Turkey Point Effective Emergency Planning, Sun Protection, and PPE (eyes on path, wildlife, slip-trip-fall, hand tool use, overhead dangers).

TIME OF ACTIVITY BY ITEM #

Table with columns: From, To, Circle One (AM/PM), Item #. Shows time intervals for various activities.

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

Continue Reaming 32" from 1763' bpl to 1785' bpl.
Silt Fence Repair/Fix, site trash pickup, Metal scrap/welding area clean/organize, greased Docking X2, Stack-sort wood pile Clean up around Trailors.

Signature of M. Ramirez

Date 12/10/2011

Signature of Supervisor



LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT FPL Proposed Turkey Point Units 6 and 7
 Docket Nos. 52-040 and 52-041
 JOBSITE NAME EWI I-2012-003 Enclosure 2 Page 19 of 38

DATE 12-10-11
SAT NIGHT

JOB # 11771
 JOBSITE LOCATION TP

PERSONNEL EMPLOYED TODAY

| Crew Assignment | Employee - Full Name | Per Diem? (X) | Onsite Hours | Offsite Hours | Total Hours |
|-----------------|----------------------|---------------|--------------|---------------|-------------|
| PRIME | DANNY KEELEY | X | 12 | | 12 |
| AP | ANDREY POPOV | X | 12 | | 12 |
| RKF | BUB KEITHAN | X | 12 | | 12 |
| AP | ALEX POLYANSKIY | | 4 | | 4 |

EQUIPMENT EMPLOYED TODAY

| Description | Unit # | Status |
|--------------|--------|-------------------|
| Working | WK | Mobilization |
| Standby | SB | Demobilization |
| Down in Shop | DS | Available in Yard |
| Down on Site | DN | Available on Job |

DAILY ACCOUNTING OF ACTIVITIES BY ITEM

| Item # | Cost Code | Labor Activity | Hours |
|-------------|-----------|---|-------|
| 1 | 10000 | Short Duration Job | |
| 2 | 11100 | Final Mobilization | |
| 3 | 11150 | Job Preparation | |
| 4 | 11200 | Safety Meeting | |
| 5 | 11250 | Training - Overhead | |
| 6 | 11300 | Shop - Overhead | |
| 7 | 11350 | Maintenance - Overhead | |
| 8 | 11400 | Training - Job Chargeable | |
| 9 | 11450 | Site Clean up | |
| 10 | 11500 | Install Sound Walls | |
| 11 | 11550 | Install Decon Pad | |
| 12 | 11600 | Install Surface Casng | |
| 13 | 11650 | Install Roadway & D&I Pad | |
| 14 | 11700 | Install Hole Drilling | |
| 15 | 12100 | Geophysical Logging & Other Testing | |
| 16 | 12150 | Hoq for Zono Testing | |
| 17 | 12200 | Abandonment | |
| 18 | 13100 | Production Well Installation | |
| 19 | 13150 | Install Conductor Pipe | |
| 20 | 13200 | Install Casing | |
| 21 | 13250 | Geophysical Logging & Other Testing | |
| 22 | 13300 | Liquid Zono Testing | |
| 23 | 13350 | Abandonment/Cement plugs | |
| 24 | 13400 | Reaming | |
| 25 | 13450 | Under Reaming | |
| 26 | 13500 | Install Casing | |
| 27 | 13550 | Install Screen | |
| 28 | 13600 | Gravel Pack The Well | |
| 29 | 13650 | Install Annular Seal | |
| 30 | 14050 | Water Watching | |
| 31 | 14100 | Well Development Air Lift and Swab | |
| 32 | 14150 | Disposal of Huds and Cuttings | |
| 33 | 14200 | Furnish & Install Test Pump and Discharge | |
| 34 | 14250 | Development Pumping | |
| 35 | 14300 | Test Pumping | |
| 36 | 14350 | Drilling and Cementation | |
| 37 | 14400 | Offsite Activities Mob/Demob | |
| 38 | 19100 | Shop | |
| 39 | 19150 | Administration | |
| 40 | 19550 | Other Activities Standby | |
| 41 | 19600 | Recharge for Lost/Broken Tooling | |
| 42 | 19650 | Change Order Activities | |
| 43 | 20000 | Equipment Repairs | |
| 44 | 90170 | Damages | |
| 45 | 90200 | Job Superintendent | |
| | | Lunch | |
| TOTAL HOURS | | | |

MATERIALS USED TODAY

| Quantity | Description |
|----------|--|
| | SAFETY MEETING |
| #1 | FIRE EXTINGUISHERS |
| #7 | HAND SAFETY |
| | PPL - HIGH PRESSURE HOSES - 4000' - 1/2" (4) (5) |
| | SLIPTRIP PAD - FALL PROTECTION |

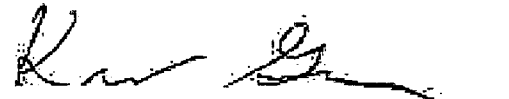
TIME OF ACTIVITY BY ITEM

| From | To | Grade One | Item # |
|------|----|-----------|--------|
| | | AM PM | |
| | | AM PM | |
| | | AM PM | |
| | | AM PM | |
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| | | AM PM | |
| | | AM PM | |

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

CONTINUE REAMING 82" BIT FROM 1785' BPL TO 1788' BPL C.
 CONNECTION AN SURVEY O.S.
 RESUME REAMING 1788' BPL TO 1817' BPL

12-11-11





LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT F.P.L. Proposed Turkey Point Units 6 and 7
JOB SITE NAME EW-1 Docket Nos. 52-040 and 52-041 L-2012-003 Enclosure 2 Page 20 of 38

DATE 12-11-11
SPT DAYS

UNIT 11777
T.P.

PERSONNEL EMPLOYED TODAY

Table with columns: Crew Assignment, Employee - Full Name, Per Diem?, Onsite Hours, Offsite Hours, Total Hours. Rows include: Driller Boris G. Malomov, V.I. Vlad Ischimov, A.Z. Alexey Linkinych, A.B. Akmal Burkhorov, V.M. Victor Moiseyev.

EQUIPMENT EMPLOYED TODAY

Table with columns: Description, Unit #, Status. Includes sub-table for Working, Standby, Down-in Shop, Down on Site with codes like MKR, SB, DS, DM.

DAILY ACCOUNTING OF ACTIVITIES BY ITEM #

Large table with columns: Item #, Unit Code, Unit Activity, Hours. Lists various activities like 'Install Drushin', 'Clearing', 'Install Roadway & Drill Pad' with corresponding codes and times.

MATERIALS USED TODAY

Table with columns: Quantity, Description. Contains handwritten notes: SAFETY MITG.; BACKHOE/LOADERS; FIRE PROTECTION; HAND SAFETY; RINCH POINT; HIGH ADGES; LING; LOADER SAFETY; EYE PROTECTION; FALL PROTECTION.

TIME OF ACTIVITY BY ITEM #

Table with columns: From, To, Circle One, Item #. For recording time intervals.

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

SERVICE WASH PIPE! DRILL 32" BIT: FROM / - 1811' BPL - TO - 1812' BPL; REPAIR WASH PIPE! GO BACK DRILL FROM / - 1812' BPL - TO - 1815' BPL

PA Signature
12-11-11
Date

Client's Signature

PAYROLL

Date

KA Signature

Supervisor's Signature

Time



LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CHECK: FPL Proposed Turkey Point Units 6 and 7
 Docket Nos. 52-040 and 52-041
 JOBSITE NAME: EW-1 L-2012-003 Enclosure 2 Page 21 of 38

DATE: 12/11/11
SUN. NIGHT

JOB # 11771
 JOBSITE LOCATION: T.P.

PERSONNEL EMPLOYED TODAY

PERFORMANCE HISTORY TODAY

DAILY ACCOUNTING OF ACTIVITIES BY ITEM #

| Crew Assignment | Employee - Full Name | Per Diem? (X) | Onsite Hours | Offsite Hours | Total Hours |
|-----------------|----------------------|---------------|--------------|---------------|-------------|
| DRILLER | DANNY KEELEY | X | 12 | | 12 |
| BYE | ROBERT FEETHAN | X | 12 | | 12 |
| BYE | JAMES McDONNELL | X | 12 | | 12 |
| A.P. | ANDREY POPOV | X | 12 | | 12 |
| J.L. | JOAN LOPEZ | X | 12 | | 12 |

| Description | Unit # | Status |
|--------------|--------|-------------------|
| Working | WK | Mobilization |
| Standby | SB | Demobilization |
| Down in Shop | DS | Available in Yard |
| Down on Site | DN | Available on Job |

| Item # | Cost Code | Labor Activity | Hours |
|--------|-----------|---|-------|
| 1 | 10000 | Shon Dura! on Job | |
| 2 | 11100 | Ondite 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 | Wtc 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 | Log for Zone Testing | |
| 17 | 12200 | Wellbore Abandonment | |
| 18 | 13050 | Production Well Installation | |
| 19 | 11100 | Install Conductor Pipe | |
| 20 | 11150 | Install Bit Hole | |
| 21 | 13200 | Geophysical Logging & Other Testing | |
| 22 | 13250 | Log for Zone Testing | |
| 23 | 13300 | Wellbore Abandonment/Cement Plug | |
| 24 | 13350 | Casing | |
| 25 | 13400 | Wellbore Remediation | |
| 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 Sludges & Cuttings | |
| 33 | 14150 | Turn Sh & Install Test Pump and Discharge | |
| 34 | 14200 | Development Pumping | |
| 35 | 14250 | Test Pumping | |
| 36 | 14300 | Flowback and Completion | |
| 37 | 19050 | Offsite Activities Mob/Demob | |
| 38 | 19100 | Shop | |
| 39 | 19150 | Administration | |
| 40 | 19550 | Other Activities Standby | |
| 41 | 19500 | 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

TIME OF ACTIVITY BY ITEM #

| Quantity | Description |
|----------|--|
| | SAFETY MEETINGS: |
| | #1 NUCLEAR EMERGENCY PROCEDURES |
| | #2 FALLING OBJECTS |
| | PPE, TRIPPING HAZARDS, PINCH POINTS |
| | HIGH PRESSURE HOSES, MANLIFT, BODY HARNESS |

| From | To | Grade | Change | Item # |
|------|----|-------|--------|--------|
| | | | AM | PM |
| | | | AM | PM |
| | | | AM | PM |
| | | | AM | PM |
| | | | AM | PM |
| | | | AM | PM |
| | | | AM | PM |
| | | | AM | PM |
| | | | AM | PM |
| | | | AM | PM |
| | | | AM | PM |
| | | | AM | PM |

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

CONTINUE REMOVING 30" BIT FROM 1815' BPL → TO 1834' BPL
 TIGHTEN & GREASE WASH PIPE; REPAIR WIRELINE CONNECTION AT 1834' BPL; SURVEY 0.5

Supervisor's Signature
[Signature]
 Date: 12/11/11

Date: 12/11/11

Class/Signature

PAYROLL

Supervisor's Signature
[Signature]
 Date:



LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT F.P.L Proposed Turkey Point Units 6 and 7
Docket Nos. 52-040 and 52-041

DATE 12-12-2011
MON - DAYS.

JOB # 11771

JOB SITE NAME EW-1 L-2012-003 Enclosure 2 Page 22 of 38

JOB SITE LOCATION T.P.

PERSONNEL EMPLOYED TODAY

| Crew Assignment | Employee - Full Name | Per Diem? (X) | Onsite Hours | Offsite Hours | Total Hours |
|-----------------|----------------------|---------------|--------------|---------------|-------------|
| Miller | BOSIT GULOMOV | X | 12 | | 12 |
| V.I | VLAD ISHIMOV | X | 8 | | 8 |
| A.L | ALEXEY LINKINYKH | X | 12 | | 12 |
| A.B | AKMAI BURKHONOV | X | 12 | | 12 |
| V.M | VICTOR MOIKYEV | X | 12 | | 12 |
| | | | | | |

EQUIPMENT DEPLOYED TODAY

| Description | Unit # | Status |
|--------------|--------|----------------------|
| 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 Testing | |
| 17 | 12200 | Borehole 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 | Borehole 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 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 | 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 | 88000 | Equipment Repairs | |
| 44 | 90170 | Damages | |
| 45 | 90200 | Job Superintendent | |
| | | Lunch | |
| | | TOTAL HOURS | |

MATERIALS USED TODAY

| Quantity | Description |
|----------|---|
| | SAFETY MTG; |
| ① | LOCKOUT/TAGOUT; |
| ② | H.I.R.A |
| | HAND SAFETY; PINCH POINT; HIGH PRESS LINE; LOADER SAFETY; PIPE. |

TIME OF ACTIVITY BY ITEM #

| From | To | Circle One | Item # |
|------|----|------------|--------|
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COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

DRILL 32" BIT: FROM 1834' BPL - TO 1864' BPL.
 HELP ELLIS; SERVICE WASHPIPE; CLEAN MCC HOUSE;
 PRESS WASH CAN RIC;

INSTALLER'S SIGNATURE [Signature]

12-12-11
Date

Client's Signature

PAYROLL

Date

SUPERVISOR'S SIGNATURE [Signature]
Date



LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT FPL Proposed Turkey Point Units 6 and 7
Docket Nos. 52-040 and 52-041
JOB SITE NAME EW-1 L-2012-003 Enclosure 2 Page 23 of 38

DATE 12/12/11
MON. NIGHT

JOB # 11771
JOB SITE LOCATION T.P.

PERSONNEL EMPLOYED TODAY

Table with columns: Crew Assignment, Employee - Full Name, Per Diem? (X), Onsite Hours, Offsite Hours, Total Hours. Includes names: DANNY KEELEY, BOB FEETHAM, JAMES McDONNELL, ANDREY POPOV.

EQUIPMENT DEPLOYED TODAY

Table with columns: Description, Unit #, Status. Includes categories: Working, Standby, Down in Shop, Down on Site.

DAILY ACCOUNTING OF ACTIVITIES BY ITEM #

Large table with columns: Item #, Cost Code, Labor Activity, Hours. Lists activities from 1 to 45, including Short Duration Job, Onsite Mob/Demob, Safety Meeting, etc.

MATERIALS USED TODAY

Table with columns: Quantity, Description. Includes text: SAFETY MEETINGS: #1 AVOID PIPE PINCH POINTS, #2 DRIVING HOME SAFELY, P.P.E.; HIGH PRESSURE HOSES; PINCH POINTS, LOADER SAFETY.

TIME OF ACTIVITY BY ITEM #

Table with columns: From, To, Circle One (AM, PM), Item #. Grid for tracking activity times.

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

CONTINUE RIMMING WITH 32" BIT FROM 1864' BPL -> TO 1878' BPL
MAKE A CONNECTION; MONTHLY SAFETY INVENTORY;
RESUME RIMMING FROM 1878' BPL -> 1897 BPL

Installer's Signature [Signature] Date 12/12/11 Client's Signature [Signature] Date [Blank] PAYROLL Supervisor's Signature [Signature] Date [Blank]



LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

7

CLIENT F.P.L

Proposed Turkey Point Units 6 and 7

DATE 12-13-2011

WELL # 11771

JOB SITE NAME FW-1

Docket Nos. 52-040 and 52-041 L-2012-003 Enclosure 2 Page 24 of 38

TUE DAYS

JOB SITE LOCATION T. P.

PERSONNEL EMPLOYED TODAY

Table with columns: Crew Assignment, Employee - Full Name, Per Diem? (X), Onsite Hours, Offsite Hours, Total Hours. Includes names like BOB GULOMOV, VLAD ISHIMOV, ALEXEY LIMKINIKH, ALMA BURIKHONOV, VICTOR MOISEYEV.

EQUIPMENT DEPLOYED TODAY

Table with columns: Description, Unit #, Status. Includes Working, Standby, Down In Shop, Down on Site.

DAILY ACCOUNTING OF ACTIVITIES BY ITEM #

Large table with columns: Item #, Cost Code, Labor Activity, Hours. Lists various activities like 'Job Preparation', 'Safety Meeting', 'Aquifer Zone Test ng', etc.

MATERIALS USED TODAY

Table with columns: Quantity, Description. Includes 'SAFETY MTG', 'SLINGS', 'CONFINED SPACES', 'HAND SAFETY: PINCH POINT: HIGH PRESSURING; LOADER SAFETY: P.P.E H.I.R.A.'

TIME OF ACTIVITY BY ITEM #

Table with columns: From, To, Circle One (AM/PM), Item #. Shows time intervals for various activities.

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

DRILL 32" BIT: FROM - 1897' BPL - TO - 1923' BPL. HOUSEKEEPING + DRESS WASH FLOOR + DIG: GREASED CAN RAG: 100%. CLEAN RIG PAD: HELPING ELLIS: RUN SURVEY 3 MAKE CONNECTION: BACK DRILL FROM - 1923' BPL - TO - 1938' BPL.

Handwritten signature and initials at bottom left.

12-13-11

Supervisor's Signature

PAYROLL

WFL

Supervisor's Signature

Date

Handwritten signature at bottom right.



LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT FPL

Proposed Turkey Point Units 6 and 7
Docket Nos. 52-040 and 52-041
L 2012-003 Enclosure 2 Page 26 of 38

DATE 12-13-2011
Tues. Nights

JOB # 11771

SUBSITE NAME EW-1

SUBSITE LOCATION Turkey Point

PERSONNEL EMPLOYED TODAY

| Crew Assignment | Employee - Full Name | Per Diam? (X) | Onsite Hours | Offsite Hours | Total Hours |
|-----------------|----------------------|---------------|--------------|---------------|-------------|
| DRILL | Michael A Ramirez | X | 12 | | 12 |
| DRILL | Joan Lopez | X | 12 | | 12 |
| DRILL | James McDonnell | X | 12 | | 12 |
| DRILL | Danny Keeley | — | 4 | | 4 |
| AP | Andrey Popov | — | 4 | | 4 |
| BF | Bob Feetham | — | 4 | | 4 |

EQUIPMENT DEPLOYED TODAY

| Description | Unit # | Status |
|--------------|--------|-------------------|
| Working | WK | Mobilization |
| Standby | SB | Demobilization |
| Down in Shop | DS | Available in Yard |
| Down on Site | DN | Available on Job |

CLASSIFICATION OF ACTIVITY BY ITEM #

| Item # | Cost Code | Labor Activity | Hours |
|--------|-----------|---|-------|
| 1 | 10600 | Short Duration Job | |
| 2 | 11100 | Onsite Mob/Demob | |
| 3 | 11150 | Job Preparation | |
| 4 | 11200 | Safety Meeting | |
| 5 | 0000 | Training - Overhead | |
| 6 | 0006 | Shop Overhead | |
| 7 | 0007 | Maintenance Overhead | |
| 8 | 11250 | Training - Job Chargeable | |
| 9 | 41300 | Site Clean up | |
| 10 | 11350 | Install Sound Walls | |
| 11 | 11400 | Install Decon Pad | |
| 12 | 11450 | Install Surface Casing | |
| 13 | 11500 | Install Roadway & Driv 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 | 13100 | Install Conductor Pipe | |
| 20 | 13150 | Install Pilot Hole | |
| 21 | 13200 | Geophysical Logging & Other Testing | |
| 22 | 13250 | Aquifer Zone Testing | |
| 23 | 13300 | Borehole Abandonment/Cement Plugs | |
| 24 | 13350 | Seaming | |
| 25 | 13400 | Under Roaming | |
| 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 | 88000 | Equipment Repairs | |
| 44 | 90170 | Damages | |
| 45 | 90200 | Job Superintendent | |
| | | Lunch | |
| | | TOTAL HOURS | |

MATERIALS USED TODAY

| Quantity | Description |
|----------|---|
| | Safety Meetings |
| 1) | Eye Protection |
| 2) | Fire Protection & Prevention |
| | PPE, eyes on Auth, night operations, Slip-Trip-Falls, overhead dangers, power tools |

TIME OF ACTIVITY BY ITEM #

| From | To | Order One | Item # |
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COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

5:45pm-8:30pm Health Meeting
Continue Drilling 32" from 1938' bpl to 1960' bpl
Clean/organize Parts House & Change House, location trash pickup, Housekeeping
TD 1960' 5:25 AM circulate/clean hole Trip out Single 45'

H. R.



LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT F.D.L Proposed Turkey Point Units 6 and 7
Docket Nos. 52-040 and 52-041
JOB SITE NAME EW-1 L-2012-003 Enclosure 2 Page 26 of 38

DATE 12-14-2011
WED DAYS.

JOB # 11271
JOB SITE LOCATION T.P.

PERSONNEL EMPLOYED TODAY

| Crew Assignment | Employee - Full Name | Per Diem? (X) | Onsite Hours | Offsite Hours | Total Hours |
|-----------------|----------------------|---------------|--------------|---------------|-------------|
| Driller | BOSIT GULOMOV | X | 13 | | 13 |
| V.I | VLAD ISHIMOV | X | 13 | | 13 |
| A.L | ALEXEY LIMKINIKH | X | 13 | | 13 |
| A.B | AKMAI BURKHONOV | X | 13 | | 13 |
| V.M | VICTOR MOCIYEV | X | 13 | | 13 |

EQUIPMENT DEPLOYED TODAY

| Description | Unit # | Status |
|--------------|--------|-------------------|
| Working | WK | Mobilization |
| Standby | SB | Demobilization |
| Down in Shop | DS | Available in Yard |
| Down on Site | DN | 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 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 Testing | |
| 17 | 12200 | Borehole 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 | Borehole 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 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 | 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 | 88000 | Equipment Repairs | |
| 44 | 90170 | Damages | |
| 45 | 90200 | Job Superintendent | |
| Lunch | | | |
| TOTAL HOURS | | | |

MATERIALS USED TODAY

| Quantity | Description |
|----------|-------------------------------------|
| | SAFETY MTG; |
| ① | T.O.H. P.I.P.E. H.I.R.A. |
| ② | T.I.H HAND SAFETY! |
| | PINCH POINT: LOADER SAFETY! |
| | EYE + HAND SAFETY: SLIP-TRIP-FALLS, |

TIME OF ACTIVITY BY ITEM #

| From | To | Circle One | Item # |
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COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

T.O.H 32" BIT + WEIGHT; KILL BACK 4 BAGS SALT;
T.I.H 12 1/4 BIT + 1 COLLER; CHANGE WASH PIPE; CHANGE AIR LINE CABEL; CHANGE AIR LINE PIPE; ③;

12-14-11
Date

Client's Signature

PAYROLL

Date



LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT FPL Proposed Turkey Point Units 6 and 7
 JOBSITE NAME EW-1 Docket Nos. 52-040 and 52-041
 L-2012-003-Enclosure 2 Page 27 of 38

DATE 12-14-2011
Wed. Nights

JOB # 11771
 JOBSITE LOCATION Turkey Point

PERSONNEL EMPLOYED TODAY

| Crew Assignment | Employee - Full Name | Per Diem? (X) | Onsite Hours | Offsite Hours | Total Hours |
|------------------|---------------------------|---------------|--------------|---------------|-------------|
| <u>DRILL MAR</u> | <u>Michael A. Ramirez</u> | <u>X</u> | <u>14</u> | | <u>14</u> |
| <u>J/L</u> | <u>Joan Lopez</u> | <u>X</u> | <u>14</u> | | <u>14</u> |
| <u>J/M</u> | <u>James Macdonnell</u> | <u>X</u> | <u>14</u> | | <u>14</u> |
| <u>RKF</u> | <u>Bob Feetham</u> | <u>X</u> | <u>12</u> | | <u>12</u> |

EQUIPMENT DEPLOYED TODAY

| Description | | Unit # | Status |
|--------------|----|-------------------|--------|
| 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 Testing | |
| 17 | 13200 | Borehole 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 | Borehole 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 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 | 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 | 88000 | Equipment Repairs | |
| 44 | 90170 | Damages | |
| 45 | 90200 | Job Superintendent | |
| | | Lunch | |
| | | TOTAL HOURS | |

MATERIALS USED TODAY

| Quantity | Description |
|-----------|---|
| | <u>Safety Meetings</u> |
| <u>1)</u> | <u>Sling Safety</u> |
| <u>2)</u> | <u>Tripping Pipe</u> |
| | <u>PPE, Pinch Points, fall arrest, eyes on path, High Press. hoses & lines.</u> |

TIME OF ACTIVITY BY ITEM #

| From | To | Circle One | Item # |
|------|----|------------|--------|
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COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION



Replace Airline wrench cable. T.I.H. 12 1/2" bit + 1 collar stand, 22 stands down to 2000 bbl & Airline. Clean hole & Circulate. T.O.H. 22 Stands.


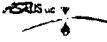
M. Ramirez
 Installer's Signature
 LCC DSR1 082209


12/14/2011
 Date


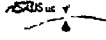
Client's Signature
PAYROLL
 Date


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 Supervisor's Signature
 Date

| 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 | | |
| 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 *Results appear to be anomalous and are suspected to be related to a sampling error. Countermeasures to prevent reoccurrence have been implemented. Note: TOC elevation is: 8.88 feet NAVD 88 | | | | | | | | | |

| 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 | | |
| 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 | |
| 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 | |
| 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 | | | | | | | | |

| <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: left;"> MHC </div> <div style="text-align: center;"> Florida Power & Light Company Turkey Point Exploratory Well EW-1 Deviation Survey Summary </div> <div style="text-align: right;">  </div> </div> | | | | | |
|---|---------------------|--------------------------|-------------|---------------------|--------------------------|
| Pilot Hole | | | Reamed Hole | | |
| Date | Depth (feet bpl) | Inclination (degrees) | Date | Depth (feet bpl) | Inclination (degrees) |
| 5/13/2011 | 90 | 0.2 | 5/20/2011 | 90 | 0.5 |
| 5/14/2011 | 180 | 0.4 | 5/24/2011 | 180 | 0.4 |
| 6/3/2011 | 270 | 0.5 | 6/6/2011 | 270 | 0.0 |
| 5/29/2011 | 345 | 0.3 | 6/8/2011 | 360 | 0.1 |
| 5/29/2011 | 435 | 0.4 | 6/9/2011 | 450 | 0.2 |
| 5/30/2011 | 524 | 0.4 | 6/10/2011 | 540 | 0.3 |
| 5/30/2011 | 614 | 0.0 | 6/12/2011 | 630 | 0.5 |
| 5/31/2011 | 704 | 0.2 | 6/14/2011 | 720 | 0.4 |
| 5/31/2011 | 794 | 0.3 | 6/15/2011 | 810 | 0.4 |
| 5/31/2011 | 884 | 0.3 | 6/16/2011 | 900 | 0.3 |
| 6/1/2011 | 974 | 0.5 | 6/18/2011 | 990 | 0.4 |
| 6/1/2011 | 1,064 | 0.5 | 7/23/2011 | 1,080 | 0.1 |
| 7/1/2011 | 1,154 | 0.6 | 7/25/2011 | 1,170 | 0.4 |
| 7/1/2011 | 1,244 | 0.3 | 7/26/2011 | 1,260 | 0.5 |
| 7/1/2011 | 1,334 | 0.4 | 7/27/2011 | 1,350 | 0.2 |
| 7/2/2011 | 1,424 | 0.4 | 7/29/2011 | 1,440 | 0.3 |
| 7/2/2011 | 1,514 | 0.5 | 8/10/2011 | 1,530 | 0.5 |
| 7/3/2011 | 1,604 | 0.5 | 12/7/2011 | 1,590 | 0.5 |
| 8/13/2011 | 1,664 | 0.1 | 12/8/2011 | 1,650 | 0.5 |
| 8/15/2011 | 1,724 | 0.0 | 12/9/2011 | 1,710 | 0.5 |
| 8/15/2011 | 1,784 | 0.1 | 12/10/2011 | 1,770 | 0.5 |
| 8/16/2011 | 1,844 | 0.4 | 12/11/2011 | 1,830 | 0.5 |
| 8/16/2011 | 1,904 | 0.4 | 12/13/2011 | 1,890 | 0.3 |
| 8/17/2011 | 1,964 | 0.1 | | | |
| 8/19/2011 | 2,024 | 0.3 | | | |
| 8/19/2011 | 2,084 | 0.5 | | | |
| 8/20/2011 | 2,144 | 0.2 | | | |
| 8/20/2011 | 2,204 | 0.0 | | | |
| 8/22/2011 | 2,264 | 0.0 | | | |
| 8/25/2011 | 2,324 | 0.1 | | | |
| 8/25/2011 | 2,384 | 0.1 | | | |
| 8/26/2011 | 2,444 | 0.2 | | | |
| 8/26/2011 | 2,504 | 0.0 | | | |
| 8/29/2011 | 2,564 | 0.4 | | | |
| 8/31/2011 | 2,624 | 0.3 | | | |
| 9/4/2011 | 2,684 | 0.4 | | | |
| 9/4/2011 | 2,744 | 0.4 | | | |
| 9/4/2011 | 2,804 | 0.3 | | | |
| 9/5/2011 | 2,864 | 0.4 | | | |
| 9/5/2011 | 2,924 | 0.3 | | | |
| 9/5/2011 | 2,984 | 0.4 | | | |
| 9/6/2011 | 3,044 | 0.1 | | | |
| 9/6/2011 | 3,104 | 0.5 | | | |
| 9/7/2011 | 3,164 | 0.4 | | | |
| | 3,224 | | | | |
| | 3,284 | | | | |
| | 3,344 | | | | |
| | 3,404 | | | | |
| | 3,464 | | | | |
| | 3,524 | | | | |

bpl = below pad level

**Florida Power & Light Company
Turkey Point
Exploratory Well EW-1
Daily Kill Material Log**

| Date | Depth (feet bpl) | Kill Used | Approximate Volume (gallons) | Approximate Quantity (pounds) |
|-----------|---------------------|----------------------------|---------------------------------|----------------------------------|
| 7/7/2011 | 1655 | Bentonite /Barite | 569 | |
| 7/8/2011 | 1655 | Bentonite /Barite | 6,064 | |
| 7/9/2011 | 1655 | Bentonite /Barite | 2,085 | |
| 7/10/2011 | 1655 | Bentonite /Barite | 1,137 | |
| 7/11/2011 | 1655 | Bentonite /Barite | 9,475 | |
| 7/12/2011 | 1655 | Bentonite /Barite | 759 | |
| 7/13/2011 | 1655 | Bentonite /Barite | 4,548 | |
| 7/15/2011 | 1655 | Bentonite /Barite | 1,925 | |
| 7/16/2011 | 1655 | Bentonite /Barite | 2,200 | |
| 7/17/2011 | 1655 | Bentonite /Barite | 284 | |
| 7/18/2011 | 1655 | Bentonite /Barite | 275 | |
| 7/19/2011 | 1655 | Bentonite /Barite | 275 | |
| 7/31/2011 | 1542 | Bentonite /Barite | 18,950 | |
| 8/1/2011 | 1542 | Bentonite /Barite | 4,548 | |
| 8/2/2011 | 1542 | Bentonite /Barite | 284 | |
| 8/5/2011 | 1542 | Bentonite /Barite | 4,548 | |
| 8/6/2011 | 1542 | Bentonite /Barite | 2,274 | |
| 8/10/2011 | 1542 | Bentonite /Barite | 6,443 | |
| 8/10/2011 | 1542 | Salt | | 2,000 |
| 8/13/2011 | 1722 | Bentonite /Barite | 6,250 | |
| 8/14/2011 | 1722 | Bentonite /Barite | 379 | |
| 8/17/2011 | 2026 | Salt | | 2,000 |
| 8/18/2011 | 2026 | Bentonite /Barite | 379 | 2,000 |
| 8/19/2011 | 2110 | Bentonite/Barite and Salt | 570 | 2,000 |
| 8/20/2011 | 2110 | Bentonite /Barite and Salt | 189 | 4,000 |
| 8/21/2011 | 2288 | Salt | | 6,000 |
| 8/22/2011 | 2288 | Salt | | 4,000 |
| 8/24/2011 | 2396 | Bentonite /Barite and Salt | 379 | 2,000 |
| 8/25/2011 | 2396 | Salt | | 4,000 |
| 8/26/2011 | 2576 | Bentonite /Barite and Salt | 379 | 2,000 |
| 8/28/2011 | 2580 | Bentonite /Barite and Salt | 379 | 6,000 |
| 8/30/2011 | 2638 | Salt | | 4,000 |
| 8/31/2011 | 2638 | Bentonite /Barite/Salt | 569 | 2,000 |
| 9/1/2011 | 2652 | Bentonite /Barite | 379 | |
| 9/2/2011 | 2666 | Salt | | 2,000 |
| 9/3/2011 | 2666 | Bentonite /Barite | 569 | |
| 9/10/2011 | 3214 | Salt | | 6,000 |
| 9/11/2011 | 3210 | Salt | | 4,000 |
| 9/19/2011 | 3227 | Salt | | 4,000 |

Florida Power & Light Company
Turkey Point
Exploratory Well EW-1
Daily Kill Material Log

| Date | Depth (feet bpl) | Kill Used | Approximate Volume (gallons) | Approximate Quantity (pounds) |
|------------|---------------------|-----------|---------------------------------|----------------------------------|
| 9/22/2011 | 3228 | Salt | | 4,000 |
| 10/9/2011 | 3220 | Salt | | 6,000 |
| 10/10/2011 | 3220 | Salt | | 6,000 |
| 10/12/2011 | 3227 | Salt | | 4,000 |
| 10/23/2011 | 3234 | Salt | | 6,000 |
| 10/29/2011 | 3211 | Salt | | 6,000 |
| 11/7/2011 | 3223 | Salt | | 6,000 |
| 11/19/2011 | 3232 | Salt | | 4,000 |
| 11/28/2011 | 3232 | Salt | | 4,000 |
| 12/6/2011 | 3232 | Salt | | 6,000 |
| 12/14/2011 | 1960 | Salt | | 8,000 |
| | | | | |

feet bpl = feet below pad level



Report To:
 Craig Brugger
 Layne Christensen Co-FL
 5061 Luckett Road
 Fort Myers, FL 33905

Page 1 of 1
 Report Printed: 12/12/11
 Submission # 1112000092
 Order # 92095

Project: Packer Test WQ Samples PT-5
Site Location: FPL Turkey Point, Homestead, FL
Matrix: Water

Sample I.D.: EW-1-PT-5 (1930-1952)
Collected: 12/03/11 19:28
Received: 12/04/11 13:30
Collected by: Eric W. Meyer

LABORATORY ANALYSIS REPORT

| PARAMETER | RESULT | QC | UNITS | MDL | PQL | METHOD | DATE EXT. | DATE ANALY. | ANALYST |
|------------------------------------|--------|----|----------|--------|--------|----------|-------------|-------------|---------|
| Specific Conductance (Field)(grab) | 44230 | | uS/cm | 1.0 | 3.0 | 120.1 | 12/03 19:28 | 12/03 19:28 | Client |
| pH (field) | 7.48 | | units | 0.1 | 0.3 | 150.1 | 12/03 19:28 | 12/03 19:28 | Client |
| Temperature (Field) | 24.2 | | Degree C | 1 | 3 | 170.1 | 12/03 19:28 | 12/03 19:28 | Client |
| Specific Conductance (grab) | 45300 | | uS/cm | 1.000 | 3.000 | 120.1 | 12/08 09:36 | 12/08 09:36 | DGK |
| Chloride | 16800 | | mg/L | 22.000 | 66.000 | 300.0 | 12/06 11:45 | 12/06 11:45 | DGK |
| Sulfate | 585 | | mg/L | 2.14 | 6.42 | 300.0 | 12/06 11:45 | 12/06 11:45 | DGK |
| Nitrogen (Ammonia) as N | 0.092 | | mg/L | 0.01 | 0.03 | 350.1 | 12/06 11:53 | 12/06 11:53 | RPV |
| Nitrogen (Kjeldahl) as "N" | 0.26 | | mg/L | 0.070 | 0.210 | 351.2 | 12/07 08:30 | 12/07 12:16 | MSG |
| Total Dissolved Solids (TDS) | 32167 | | mg/L | 1.000 | 3.000 | SM 2540C | 12/07 11:15 | 12/08 14:26 | LYR |

Unless indicated, soil results are reported based on actual (wet) weight basis.

Analytes not currently NELAC certified denoted by ~.
 Work performed by outside (subcontract) labs denoted by Cert.ID in Analyst Field.
 Results relate only to this sample.
 QC=Qualifier Codes as defined by DEP 62-160
 U= Analyzed for but not detected.
 Q= Sample held beyond accepted holding time.
 I=Value is between MDL and PQL.
 J=Estimated value.


 Authorized CSM Signature (954) 978-6400
 Florida-Spectrum Environmental Services, Inc.
 Certification # E86006

Florida-Spectrum Environmental Services, Inc.
 1460 W. McNab Road, Fort Lauderdale, FL 33309


Pembroke Laboratory
 528 Gooch Rd.
 Fort Meade, FL 33841

Big Lake Laboratory
 610 North Parrot Ave.
 Okeechobee, FL 34972

Spectrum Laboratories
 630 Indian St.
 Savannah, GA 31401

www.flenviro.com

MUST CHANGE FOR SUNDAY P/L

| | | | |
|---|---|--|---|
| SUBMISSION # 1112-092 Logged in LIMS by <i>[Signature]</i> CSM assigned _____ |  | CHAIN OF CUSTODY RECORD <input type="checkbox"/> 1460 W. McNab Road Ft Laud. FL 33309 Tel: (954) 978-6400 Fax: (954) 978-2233 <input type="checkbox"/> 630 Indian Street Savannah, GA 31401 Tel: (912) 238-5050 Fax: (912) 234-4815 <input type="checkbox"/> 528 Gooch Road Fort Meade, FL 33841 Tel: (863) 285-8145 Fax: (863) 285-7030 <input type="checkbox"/> 610 Parrot Ave. N, Okeechobee, FL 34972 Tel: (863) 763-3336 Fax: (863) 763-1544 | DUE DATE Requested _____ RUSH RESERVATION # _____ Rush Surcharges apply |
| Original-Return w/report Yellow-Lab File Copy Pink - Sampler Copy | | | |

| | |
|--|---|
| Report to: (company name) LAYNE CHRISTENSEN COMPANY | Report to Address: 5061 LUCKETT RD., FT. MYERS, FL 33905 |
| Invoice to: (company name) LAYNE CHRISTENSEN CO. | Invoice to Address: 5061 LUCKETT RD. FT. MYERS, FL 33905 |
| Project Name and/or Number: PACKER TEST W/6 SAMPLES PT-5 ANALYSIS | Site Location: FPL TURKEY POINT, HOMESTEAD, FL 33035 |
| Project Contact: BROOK ALLEN / CARIG BRUNGER Phone: 259-275-1029 | Fax: _____ Email: CJBRUNGER@LAYNECHRISTENSEN.COM |
| Sampler Name (printed): ERIC W. MEYER Affiliation: MHC | Sampler Signature: <i>Eric W Meyer</i> |

| ORDER # Lab Control Number | Sample ID | Date Sampled | Time Sampled | Matrix | | Bottle & Pres. | Number of Containers Received & NELAC Letter Suffixes # A-? | Analysis Required | | | | | Field Tests | | | | |
|-------------------------------|--------------------------|--------------|--------------|--------|----|----------------|---|-------------------|----|----------|-----|---------|-------------|------|---------|---------|----|
| | | | | DW | SW | | | GW | WW | CHLORIDE | TDS | SFC/DAL | TKN | NH3 | Sulfate | TEMP °C | PH |
| 92095 | EW-1-PT-5 (1930-1952) | 12/3/11 | 19:28 | GW | SU | | 2 | 1 | 1 | 1 | | | | 24.8 | 7.48 | 41230 | X |
| | | | | | | | | | | | | | | | | | |
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| Special Comments: Sulfate added as per client "I waive TNI protocol" (sign here) > <i>[Signature]</i> 12/9/11 | Total 2 | <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Signature</th> <th>Affiliation</th> <th>Date/Time</th> </tr> <tr> <td>1 Relinquished by: <i>Eric W Meyer</i></td> <td></td> <td>12/9/11 @ 1935</td> </tr> <tr> <td>1 Received by: <i>[Signature]</i></td> <td></td> <td>12/5/11 @ 1935</td> </tr> <tr> <td>2 Relinquished by: <i>Archie Piffenger</i></td> <td></td> <td>12/4/11 @ 11:54</td> </tr> <tr> <td>2 Received by: <i>Archie Piffenger</i></td> <td></td> <td>12-4-11 12:00</td> </tr> <tr> <td>3 Relinquished by: <i>Archie Piffenger</i></td> <td></td> <td>12-4-11 13:30</td> </tr> <tr> <td>3 Received by: <i>[Signature]</i></td> <td></td> <td>12/4/11 1330</td> </tr> </table> | Signature | Affiliation | Date/Time | 1 Relinquished by: <i>Eric W Meyer</i> | | 12/9/11 @ 1935 | 1 Received by: <i>[Signature]</i> | | 12/5/11 @ 1935 | 2 Relinquished by: <i>Archie Piffenger</i> | | 12/4/11 @ 11:54 | 2 Received by: <i>Archie Piffenger</i> | | 12-4-11 12:00 | 3 Relinquished by: <i>Archie Piffenger</i> | | 12-4-11 13:30 | 3 Received by: <i>[Signature]</i> | | 12/4/11 1330 |
|--|---|---|---------------|--|---|---|--|----------------|-----------------------------------|--|----------------|--|--|-----------------|--|--|---------------|--|--|---------------|-----------------------------------|--|--------------|
| Signature | Affiliation | Date/Time | | | | | | | | | | | | | | | | | | | | | |
| 1 Relinquished by: <i>Eric W Meyer</i> | | 12/9/11 @ 1935 | | | | | | | | | | | | | | | | | | | | | |
| 1 Received by: <i>[Signature]</i> | | 12/5/11 @ 1935 | | | | | | | | | | | | | | | | | | | | | |
| 2 Relinquished by: <i>Archie Piffenger</i> | | 12/4/11 @ 11:54 | | | | | | | | | | | | | | | | | | | | | |
| 2 Received by: <i>Archie Piffenger</i> | | 12-4-11 12:00 | | | | | | | | | | | | | | | | | | | | | |
| 3 Relinquished by: <i>Archie Piffenger</i> | | 12-4-11 13:30 | | | | | | | | | | | | | | | | | | | | | |
| 3 Received by: <i>[Signature]</i> | | 12/4/11 1330 | | | | | | | | | | | | | | | | | | | | | |
| Deliverables: _____ QA/QC Report Needed? Yes No (additional charge) | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Sample Custody & Field Comments</th> <th>Bottle Type</th> <th>Preservatives</th> </tr> <tr> <td> Temp as received: <i>4</i> °C Custody seals? Y <i>/</i> N FIELD TIME: Sampling: _____ hrs Pick-Up: _____ hrs Misc. Charges: _____ </td> <td> A-liter amber B-Bacteria bag/bottle F-500 ml H-Plastic Amber Liter L-liter bottle S2-2 oz soil jar S4-4 oz soil jar / S8-8 oz soil jar T-250 ml V-40 ml vial W-wide mouth X-other _____ TED-Tedlar Air Bag Additional Bottle Types B-brown liter plastic </td> <td> A-ascorbic acid C-HCL Cu-CuSO4 DI-DI water H-HNO3 M-MCAB MeOH-Methanol Z-zinc acetate Additional Preservatives Hex-Hex Cr Buffer EDA-Ethylene Diamine </td> </tr> </table> | Sample Custody & Field Comments | Bottle Type | Preservatives | Temp as received: <i>4</i> °C Custody seals? Y <i>/</i> N FIELD TIME: Sampling: _____ hrs Pick-Up: _____ hrs Misc. Charges: _____ | A-liter amber B-Bacteria bag/bottle F-500 ml H-Plastic Amber Liter L-liter bottle S2-2 oz soil jar S4-4 oz soil jar / S8-8 oz soil jar T-250 ml V-40 ml vial W-wide mouth X-other _____ TED-Tedlar Air Bag Additional Bottle Types B-brown liter plastic | A-ascorbic acid C-HCL Cu-CuSO4 DI-DI water H-HNO3 M-MCAB MeOH-Methanol Z-zinc acetate Additional Preservatives Hex-Hex Cr Buffer EDA-Ethylene Diamine | | | | | | | | | | | | | | | | | |
| Sample Custody & Field Comments | Bottle Type | Preservatives | | | | | | | | | | | | | | | | | | | | | |
| Temp as received: <i>4</i> °C Custody seals? Y <i>/</i> N FIELD TIME: Sampling: _____ hrs Pick-Up: _____ hrs Misc. Charges: _____ | A-liter amber B-Bacteria bag/bottle F-500 ml H-Plastic Amber Liter L-liter bottle S2-2 oz soil jar S4-4 oz soil jar / S8-8 oz soil jar T-250 ml V-40 ml vial W-wide mouth X-other _____ TED-Tedlar Air Bag Additional Bottle Types B-brown liter plastic | A-ascorbic acid C-HCL Cu-CuSO4 DI-DI water H-HNO3 M-MCAB MeOH-Methanol Z-zinc acetate Additional Preservatives Hex-Hex Cr Buffer EDA-Ethylene Diamine | | | | | | | | | | | | | | | | | | | | | |



Report To:
 Craig Brugger
 Layne Christensen Co-FL
 5061 Lockett Road
 Fort Myers, FL 33905

Page 1 of 1
Report Printed: 12/14/11
Submission # 1112000193
Order # 92720

Project: Turkey Point EN-1
Site Location: FPL Turkey Point, Homestead, FL
Matrix: Water

Sample I.D.: EW-1-PT-7 (3020-3232 ft)
Collected: 12/05/11 19:00
Received: 12/07/11 14:55
Collected by: Deborah Dalole

LABORATORY ANALYSIS REPORT

| PARAMETER | RESULT | QC | UNITS | MDL | PQL | METHOD | DATE EXT. | DATE ANALY. | ANALYST |
|------------------------------------|--------|----|----------|-------|--------|----------|-------------|-------------|---------|
| Specific Conductance (Field)(grab) | 50100 | | uS/cm | 1.0 | 3.0 | 120.1 | 12/05 19:00 | 12/05 19:00 | Client |
| pH (field) | 8.04 | | units | 0.1 | 0.3 | 150.1 | 12/05 19:00 | 12/05 19:00 | Client |
| Temperature (Field) | 24.1 | | Degree C | 1 | 3 | 170.1 | 12/05 19:00 | 12/05 19:00 | Client |
| Specific Conductance (grab) | 51600 | | uS/cm | 1.0 | 3.0 | 120.1 | 12/08 09:38 | 12/08 09:38 | DGK |
| Chloride | 19100 | | mg/L | 55.00 | 165.00 | 300.0 | 12/07 17:55 | 12/07 17:55 | DGK |
| Sulfate | 2910 | | mg/L | 53.50 | 160.50 | 300.0 | 12/07 17:55 | 12/07 17:55 | DGK |
| Nitrogen (Ammonia) as N | U | U | mg/L | 0.01 | 0.03 | 350.1 | 12/08 15:38 | 12/08 15:38 | RPV |
| Nitrogen (Kjeldahl) as "N" | U | U | mg/L | 0.070 | 0.210 | 351.2 | 12/13 10:30 | 12/13 14:44 | MSG |
| Total Dissolved Solids (TDS) | 39900 | | mg/L | 1.00 | 3.00 | SM 2540C | 12/09 15:15 | 12/12 15:03 | LYR |

Unless indicated, soil results are reported based on actual (wet) weight basis.

Analytes not currently NELAC certified denoted by "-".
 Work performed by outside (subcontract) labs denoted by Cert.ID in Analyst Field.
 Results relate only to this sample.
 QC=Qualifier Codes as defined by DEP 62-160
 U=Analyzed for but not detected.
 Q=Sample held beyond accepted holding time.
 I=Value is between MDL and PQL.
 J=Estimated value.

K. Castellanos
 Authorized CSM Signature (954) 978-6400
 Florida-Spectrum Environmental Services, Inc.
 Certification # E86006

Florida-Spectrum Environmental Services, Inc.
 1460 W. McNab Road, Fort Lauderdale, FL 33309


Pembroke Laboratory
 528 Gooch Rd.
 Fort Meade, FL 33841

Big Lake Laboratory
 610 North Parrot Ave.
 Okeechobee, FL 34972

Spectrum Laboratories
 630 Indian St.
 Savannah, GA 31401

www.flenviro.com

All NELAP certified analyses are performed in accordance with Chapter 64E-1 Florida Administrative Code, which has been determined to be equivalent to NELAC standards. Analyses certified by programs other than NELAP are designated with a "-".

| | | | | | |
|---|--|--|--|----------------------------|---------------------------|
| SUBMISSION # <u>112-123</u> |  | CHAIN OF CUSTODY RECORD | | | DUE DATE Requested |
| Logged in LIMS by <u>(NB)</u> CSM assigned _____ | <input type="checkbox"/> 1460 W. McNab Road Ft Laud. FL 33309 <input type="checkbox"/> 630 Indian Street Savannah, GA 31401 <input type="checkbox"/> 528 Gooch Road Fort Meade, FL 33841 <input type="checkbox"/> 610 Parrot Ave. N, Okeechobee, FL 34972 | Tel: (954) 978-6400 Tel: (912) 238-5050 Tel: (863) 285-8145 Tel: (863) 763-3336 | Fax: (954) 978-2233 Fax: (912) 234-4815 Fax: (863) 285-7030 Fax: (863) 763-1544 | RUSH RESERVATION # | |
| Original-Return w/report | | Yellow-Lab File Copy | | Pink - Sampler Copy | |

| | |
|---|--|
| Report to: (company name) <u>LAYNE CHRISTENSEN COMPANY</u> | Report to Address: <u>5061 LUCKETT RD, FT. MYERS, FL 33905</u> |
| Invoice to: (company name) <u>LAYNE CHRISTENSEN Co.</u> | Invoice to Address: <u>5061 LUCKETT RD, FT. MYERS, FL 33905</u> |
| Project Name and/or Number <u>TURKEY POINT EN-1</u> | Site Location: <u>FPL TURKEY POINT, HOMESTEAD, FL 33035</u> |
| Project Contact: <u>BROOK ALLEN / CRAIG BRUGGER</u> | Phone: <u>239-275-1029</u> <u>239-275-1025</u> |
| Sampler Name: (printed) <u>DEBORAH DAJOLE</u> | Affiliation: <u>MHC</u> |
| | Sampler Signature |

| ORDER # Lab Control Number | Sample ID | Date Sampled | Time Sampled | Matrix | Bottle & Pres. | Number of Containers Received & NELAC Letter Suffixes # A-? | Analysis Required | | | | | | Field Tests | | | | |
|-------------------------------|-----------|--------------------|--------------|--------|----------------|---|-------------------|-----|---------|-----|-----|---------|-------------|------|------|-------|---|
| | | | | | | | CHLORIDE | TDS | SR COND | TKN | NH3 | Sulfate | TEMP °C | PH | COND | CHLOR | |
| 1 | 92720 | EW-1-PT-7(325/327) | 12/15/2011 | 1900 | GW SUL | 2 | 1 | 1 | 1 | | | | | 21.1 | 8.04 | 50100 | X |
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|--|-------------------------------------|--------------------------|---------------------------------------|-----------------|
| Special Comments: <u>All samples must be returned to the job site after analysis is completed.</u> | Total | Signature | Affiliation | Date/Time |
| "I waive NELAC protocol" (sign here) <u>Sulfate added as per client 12/9/11</u> | | 1 | Relinquished by: <u>Sh H Duval</u> | 12/7/2011 11:20 |
| Deliverables: QA/QC Report Needed? Yes No (additional charge) | | 1 | Received by: <u>Arcadio Pifferrer</u> | 12-7-11 11:20 |
| Sample Custody & Field Comments | Bottle Type | Preservatives | | |
| Temp as received <u>4</u> C | A-liter amber | A-ascorbic acid | | |
| Custody seals? Y <u>N</u> | B-Bacteria bag/bottle | C-HCL | | |
| FIELD TIME: | F-500 ml | Cu-CuSO4 | | |
| Sampling _____ hrs | L-liter bottle | H-HNO3 | | |
| Pick-Up _____ hrs | S4-4 oz soil jar / S8-8 oz soil jar | M-MCAB | | |
| Misc. Charges _____ | T-250 ml | Z-zinc acetate | | |
| | V-40 ml vial | | | |
| | W-wide mouth | | | |
| | X-other | | | |
| | TED-Tedtar Air Bag | Additional Preservatives | | |
| | Additional Bottle Types | Hex-Hex Cr Buffer | | |
| | B-brown liter plastic | EDA-Ethylene Diamine | | |

Proposed Turkey Point Units 6 and 7
Docket Nos. 52-040 and 52-041
L-2012-003 Enclosure 3 Page 1 of 31

Enclosure 3

Florida Power & Light Company Turkey Point Units 6 & 7
Exploratory Well Project; Permit #0293962-001-UC
Weekly Construction Summary #33 dated December 22, 2011

WEEKLY CONSTRUCTION SUMMARY



McNabb Hydrogeologic Consulting, Inc.

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

December 22, 2011

MHCDEP-11-0576

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 #33**

Dear Mr. May:

This is the thirty-third weekly construction summary for the above referenced project. The reporting period for this weekly construction summary began at 7:00 AM, Thursday, December 15, 2011 and ended at 7:00 AM, Wednesday, December 21, 2011. 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 reamed the interval from 1,636 to 1,960 feet below pad level (bpl) using a 32-inch diameter bit and had begun to clean out the interval from 1,960 to 2,000 feet bpl with a 12 ¼-inch diameter drill bit in preparation for performing a packer test over the interval from 1,970 to 1,992 feet bpl.

During this reporting period, the drilling contractor set inflatable straddle packers in preparation for performing a packer test over the interval from 1,970 to 1,992 feet bpl. The test interval was conditioned until one drill-string volume of water was removed from the testing interval. Conditioning of the test interval was then stopped to allow the water level in the test interval recover in preparation for performing the pumping portion of the packer test. Flow was approximately one gallon per minute at the completion of test interval conditioning. During the test interval recovery period, one of the straddle packers lost pressure. The test was terminated and the packers were removed from the well. While bringing the packers to surface, a ruptured hose was identified as the source of the pressure loss. The hose was repaired and the packers were re-installed to test the packer test interval of 1,970 to 1,992 feet bpl. Conditioning of the test interval had started at the end of the reporting period. The well was killed with salt once during the reporting period. A daily kill material log providing a summary of daily kill material and kill quantity is attached.

There was no casing installation, cementing, geophysical logging or exploratory well development and no lithologic samples were collected during this reporting period. There were no construction related issues during this reporting period.

During the next reporting period, it is anticipated that the drilling contractor will perform a packer test over the interval from 1,970 to 1,992 feet bpl and then ream the hole with a 28-inch diameter drill bit to a depth of approximately 2,270 feet bpl. Packer testing will then be performed on selected intervals between 1,900 and 2,270 feet bpl. Reaming of the hole with a 28-inch diameter drill bit will then continue to a depth of approximately 2,900 feet bpl. Packer testing will then be performed on selected intervals between 1,900 and 2,900 feet bpl.

In addition, sampling of the pad monitor wells began on April 21, 2011 and has been taking place on a weekly basis since the initial sampling. The pad monitor wells were most recently sampled today, December 22, 2011. The most recent set of pad monitoring well sample results available are for samples collected on December 15, 2011. Sampling of the pad monitor wells around EW-1 will continue until drilling and testing of EW-1 has been completed. Copies of the 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.


12/22/11
David McNabb, P.G.

Attachments: Consultant Daily Construction Log
Layne Christensen Company-Drilling Shift Report
Pad Monitor Well Water Quality Data Summary Sheets
Daily Kill Material Log

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

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



McNabb Hydrogeologic Consulting, Inc.



Daily Construction Log

Date: December 15, 2011
Project: FPL Turkey Point EW
Contractor: Layne Christensen Company
Starting Depth: 2,000 feet bpl
Weather Day: Cloudy and Warm
Weather Night: Cloudy, mild
Activity: Preparations for Packer Testing

FDEP UIC Permit #: 0293962-001-UC
Well No.: EW-1
Bit Diameter: 32-inch
Ending Depth: 2,000 feet bpl
Recorded By: Eric Meyer / Marty Clasen

CONSTRUCTION ACTIVITIES

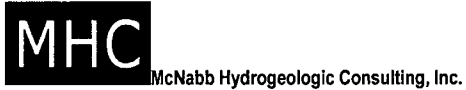
- 0700 Yesterday, the drilling contractor removed the drill pipe and 32-inch bottom-hole assembly (BHA) from the borehole. The drilling contractor switched to a 12 ¼ -inch bit, then reentered the well and circulated the borehole to a depth of 2,000 feet below pad level (bpl) to ensure it was free from cuttings prior to packer testing. The packer test interval will be from 1,970 feet to 1,992 feet bpl. The drilling contractor continues to remove the drill pipe and 12 ¼ -inch BHA from the well.
- 0800 The drilling contractor is adding salt to the well to lower the head before removing the 12 ¼ -inch BHA.
- 0845 The drilling contractor has removed all drill pipe from the well and is preparing to remove the 12 ¼ -inch bit from the drill collars.
- 1030 The drilling contractor is assembling the straddle packers in the derrick.
- 1045 Florida Spectrum Environmental Services, Inc. technician arrived onsite to begin sampling the drilling pad shallow monitor wells.
- 1100 The drilling contractor has completed the assembly of the straddle packers and has added additional salt to the well to lower the head. The drilling contractor starts lowering the straddle packers into the well for testing the interval from 1,970 feet to 1,992 feet bpl.
- 1230 The drilling contractor continues lowering the straddle packer assembly into the borehole.
- 1400 The contractor has lowered the straddle packer assembly to a depth of 1,950 feet bpl and is preparing to re-install the blowout preventer.
- 1530 The drilling contractor has positioned the straddle packers downhole and started inflation with water.
- 1645 The straddle packer inflation pressure is being maintained at 450 pounds per square inch gauge (psig).
- 1900 The drilling contractor is preparing to condition the packer test test interval.
- 2035 The drilling contractor begins conditioning the packer test interval (1,970 to 1,992 feet bpl). The packer pressure is holding steady at 450 psig. The test interval conditioning flow rate is very low, estimated at less than 1 gpm.
- 2130 The drilling contractor is continuing to condition the packer test interval.
- 2230 The drilling contractor is continuing to condition the packer test interval.



McNabb Hydrogeologic Consulting, Inc.



- 2400 The drilling contractor is continuing to condition the packer test interval.
- 0200 The drilling contractor is continuing to condition the packer test interval. The test interval conditioning flow rate is very low, estimated at less than 2 gpm.
- 0335 The drilling contractor is continuing to condition the packer test interval. The test interval conditioning flow rate is very low, estimated at less than 2 gpm.
- 0530 The drilling contractor is continuing to condition the packer test interval. The test interval conditioning flow rate is very low, estimated at less than 2 gpm.
- 0700 The drilling contractor continues to condition the packer test interval. Pressure on the packers is steady at 450 psig.



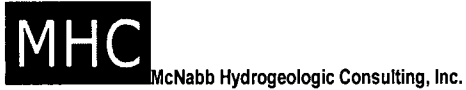
Daily Construction Log

Date: December 16, 2011
Project: FPL Turkey Point EW
Contractor: Layne Christensen Company
Starting Depth: 2,000 feet bpl
Weather Day: Cloudy and Warm
Weather Night: Cloudy, light rain
Activity: Preparations for Packer Testing

FDEP UIC Permit #: 0293962-001-UC
Well No.: EW-1
Bit Diameter: 32-inch
Ending Depth: 2,000 feet bpl
Recorded By: Eric Meyer / Marty Clasen

CONSTRUCTION ACTIVITIES

- 0700 Yesterday, the drilling contractor completed installation and inflation of the straddle packer in preparation for performing a packer test on the interval from 1,970 feet to 1,992 feet below pad level (bpl). The straddle packers were inflated using water and pressure is being maintained at 450 pounds per square inch gauge (psig). Conditioning of the test interval began last night and approximately 900 gallons of water have been purged from the test interval. The drilling contractor is continuing conditioning of the test interval with an estimated flow of less than 2 gallons per minute (gpm).
- 0952 The drilling contractor is shutting off the air compressor and preparing to add 180 feet of wash pipe prior to resuming conditioning of the test interval.
- 1024 The drilling contractor has completed installation of the additional wash pipe and has resumed conditioning the test interval. The bottom of the wash pipe is located approximately 322 feet bpl.
- 1245 The drilling contractor continues to condition the straddle packer interval. The water flow rate is estimated at 1.4 gpm.
- 1650 The drilling contractor continues to condition the straddle packer interval. Packer pressure is holding at 450 pounds per square inch gauge (psig). The average flow for the duration of conditioning is 1.3 gpm.
- 1918 The drilling contractor continues to condition the straddle packer interval. The average flow rate for the duration of the conditioning period is 1.1 gpm.
- 2225 The drilling contractor continues to condition the straddle packer interval.
- 2400 The drilling contractor continues to condition the straddle packer interval.
- 0200 The drilling contractor continues to condition the straddle packer interval.
- 0400 The drilling contractor continues to condition the straddle packer interval.
- 0600 The drilling contractor continues to condition the straddle packer interval. The inflation pressure of the straddle packers is 450 psig.



Daily Construction Log

Date: December 17, 2011 **FDEP UIC Permit #:** 0293962-001-UC
Project: FPL Turkey Point EW **Well No.:** EW-1
Contractor: Layne Christensen Company **Bit Diameter:** 32-inch
Starting Depth: 2,000 feet bpl **Ending Depth:** 2,000 feet bpl
Weather Day: Cloudy and Warm **Recorded By:** Eric Meyer / Marty Clasen
Weather Night: Cloudy, windy, mild
Activity: Preparations for Packer Testing

CONSTRUCTION ACTIVITIES

- 0700 The drilling contractor continues to condition the straddle packer test interval. The straddle packers have been installed to test the interval from 1,970 feet to 1,992 feet below pad level (bpl). The estimated rate of water produced from conditioning the test interval is about 1.1 gallons per minute (gpm) or less. Approximately 2,000 gallons have been purged from the drill pipe. The packers are holding pressure at 450 pounds per square inch gauge (psig).
- 0800 The drilling contractor continues to condition the 1,970 feet to 1,992 feet bpl test interval. Water is being produced in periodic surges.
- 1000 The drilling contractor continues to condition the test interval. Approximately 2,200 gallons have been removed from the drill pipe. At the current flow rate, the removal of one drill pipe and open-hole volume will be complete in approximately 17 hours.
- 1200 The drilling contractor continues to condition the packer test interval. Flow from the test interval is estimated to be 1 gpm, or less.
- 1400 The drilling contractor continues to air-lift the packer test interval.
- 1600 The drilling contractor continues to air-lift the packer test interval. Approximately 2,500 gallons have been air-lifted from the test interval.
- 1800 The drilling contractor continues to condition the packer test interval.
- 2000 The drilling contractor continues to condition the packer test interval.
- 2200 The drilling contractor continues to condition the packer test interval.
- 2400 The drilling contractor continues to condition the packer test interval.
- 0200 The drilling contractor continues to condition the packer test interval.
- 0400 The drilling contractor continues to condition the packer test interval.
- 0600 The drilling contractor continues to condition the packer test interval. The pressure in the packers remains steady at 450 psig.



Daily Construction Log

Date: December 18, 2011 **FDEP UIC Permit #:** 0293962-001-UC
Project: FPL Turkey Point EW **Well No.:** EW-1
Contractor: Layne Christensen Company **Bit Diameter:** 32-inch
Starting Depth: 2,000 feet bpl **Ending Depth:** 2,000 feet bpl
Weather Day: Cloudy, Tr. Rain, Warm **Recorded By:** Eric Meyer / Marty Clasen
Weather Night: Partly Cloudy, Cool
Activity: Packer Testing

CONSTRUCTION ACTIVITIES

- 0700 The drilling contractor continues to condition the straddle packer test interval of 1,970 feet to 1,992 feet below pad level (bpl). The estimated water flow rate during the test interval conditioning is 0.9 gallons per minute (gpm). Approximately 2,900 gallons have been purged from the test interval. The packers are holding pressure at 430 pounds per square inch gauge (psig).
- 0800 The drilling contractor brought the pressure in the packers up to 450 psig.
- 1000 The drilling contractor continues to condition the test interval.
- 1200 The drilling contractor continues to condition the test interval. Packer pressure increased to 460 psig and the drilling contractor bled pressure to 450 psig.
- 1400 The drilling contractor continues to condition the test interval.
- 1600 The drilling contractor continues to condition the test interval. Pressure in the packers was increased from 440 psig to 450 psig by the drilling contractor.
- 1630 The volume of water produced from the test interval exceeds one drill pipe volume. Water quality data from the sample collected at 1600 indicates that specific conductance is comparable to that obtained at the conclusion of the packer test performed on the interval from 1930 to 1952 feet bpl. The drilling contractor is preparing to stop test interval conditioning and prepare for the straddle packer pump test.
- 1635 The drilling contractor has shutoff the compressor and is preparing to remove the wash pipe from inside the drill pipe. The drilling contractor will prepare for installation of the submersible pump and pressure transducers for water level measurements.
- 1730 The drilling contractor is installing the submersible pump and transducer for the packer test.
- 1830 The drilling contractor installed the submersible pump at a depth of 178.6 feet bpl and the transducer at depth of 168.6 feet bpl. The water level is currently below the level of the transducer and the contractor is waiting for the water level to recover to a level above the transducer.
- 2100 The drilling contractor continues to wait for the water level to recover in the drill pipe. The water level has not reached the transducer which is installed at a depth of 168.6 feet bpl.



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- 2230 The drilling contractor continues to wait for the water level to recover in the drill pipe. The water level has not reached the transducer which is deployed at a depth of 168.6 feet bpl.
- 0025 The drilling contractor measured the water level inside the drill pipe using a water level indicator at a depth of 206 feet below the top of flange (195.48 feet bpl). The water level is approximately 26.88 feet below the transducer.
- 0219 The water level reached the transducer at 02:19. The water level is rising inside the drill pipe at a rate of approximately 26.88 feet per 114 minutes or 0.24 feet per minute or 14 feet per hour.
- 0430 The water level continues to recover in the drill pipe. The rate of recovery is approximately 22.4 feet in 2 hours or 11.2 feet per hour. At 04:26 there was 24.6 feet of water above the transducer.
- 0700 The water level continues to recover in the drill pipe. At 07:00 there was 48.98 feet of water above the transducer.



McNabb Hydrogeologic Consulting, Inc.



Daily Construction Log

Date: December 19, 2011
Project: FPL Turkey Point EW
Contractor: Layne Christensen Company
Starting Depth: 2,000 feet bpl
Weather Day: Clear, Cool
Weather Night: Clear, Windy, Cool
Activity: Packer Testing

FDEP UIC Permit #: 0293962-001-UC
Well No.: EW-1
Bit Diameter: 32-inch
Ending Depth: 2,000 feet bpl
Recorded By: Deborah Daigle /Sally Durall

CONSTRUCTION ACTIVITIES

- 0700 The drilling contractor continues to wait for water level to recover in the drill pipe for the straddle packer test over the interval from 1,970 feet to 1,992 feet below pad level (bpl). The water level continues to recover in the drill pipe. At 07:00 there was 48.98 feet of water above the transducer. The transducer is set at a depth of 168.6 feet bpl.
- 0830 The water level continues to recover in the drill pipe to a level of 60.93 feet of water above the transducer.
- 0930 The water level continues to recover in the drill pipe to a level of 70.30 feet of water above the transducer.
- 1110 The water level continues to recover in the drill pipe to a level of 81.83 feet of water above the transducer.
- 1330 The water level continues to recover in the drill pipe to a level of 95.46 feet of water above the transducer.
- 1445 The water level continues to recover in the drill pipe to a level of 102.59 feet of water above the transducer.
- 1630 The water level continues to recover in the drill pipe to a level of 110.78 feet of water above the transducer.
- 1730 The water level continues to recover in the drill pipe to a level of 115.37 feet of water above the transducer.
- 1830 The water level continues to recover in the drill pipe to a level of 119.18 feet of water above the transducer.
- 1930 The water level continues to recover in the drill pipe to a level of 123.73 feet of water above the transducer.
- 2100 The water level continues to recover in the drill pipe to a level of 128.80 feet of water above the transducer.
- 2240 The water level continues to recover in the drill pipe to a level of 133.77 feet of water above the transducer.
- 0020 The water level continues to recover in the drill pipe to a level of 138.66 feet of water above the transducer.
- 0215 The water level continues to recover in the drill pipe to a level of 143.40 feet of water above the transducer.



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- 0330 The water level continues to recover in the drill pipe to a level of 145.82 feet of water above the transducer.
- 0445 The water level continues to recover in the drill pipe to a level of 148.53 feet of water above the transducer.
- 0550 The water level continues to recover in the drill pipe to a level of 150.43 feet of water above the transducer.
- 0650 The water level continues to recover in the drill pipe to a level of 151.9 feet of water above the transducer.
- 0700 The water level continues to recover in the drill pipe.



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Daily Construction Log

Date: December 20, 2011
Project: FPL Turkey Point EW
Contractor: Layne Christensen Company
Starting Depth: 2,000 feet bpl
Weather Day: Clear, Cool
Weather Night: Partly Cloudy, Cool
Activity: Packer Testing

FDEP UIC Permit #: 0293962-001-UC
Well No.: EW-1
Bit Diameter: 32-inch
Ending Depth: 2,000 feet bpl
Recorded By: Deborah Daigle /Sally Durall

CONSTRUCTION ACTIVITIES

- 0700 The drilling contractor continues to wait for the water level to recover in the drill pipe for the straddle packer with a test interval from 1,970 feet to 1,992 feet below pad level (bpl). The water level continues to recover in the drill pipe. At 07:00 there was 152 feet of water above the transducer. The transducer is set at a depth of 168.6 feet bpl.
- 0750 The water level continues to recover in the drill pipe to a level of 153.5 feet of water above the transducer.
- 0850 The water level continues to recover in the drill pipe to a level of 155.0 feet of water above the transducer.
- 0950 The water level continues to recover in the drill pipe to a level of 156.3 feet of water above the transducer.
- 1050 The water level continues to recover in the drill pipe to a level of 157.5 feet of water above the transducer.
- 1150 The water level continues to recover in the drill pipe to a level of 158.6 feet of water above the transducer.
- 1250 The water level continues to recover in the drill pipe to a level of 159.6 feet of water above the transducer. The drilling contractor prepares to perform the pumping portion of the packer test over the interval from 1,970 to 1,992 feet bpl.
- 1330 The drilling contractor set up for the test but the water level in the drill pipe suddenly increased to 175.8 feet bpl. The drilling contractor determined that inflation of the packer was lost. The drilling contractor will have to trip the packer out of the hole to determine the cause of the deflation.
- 1430 The drilling contractor begins tripping the packers out of the borehole.
- 1630 The drilling contractor continues tripping the packers out of the borehole.
- 1730 The drilling contractor continues tripping the packers out of the borehole.
- 1835 A rupture was found in the pressure hose. The drilling contractor is replacing with new hose line.
- 1915 The drilling contractor begins to trip the straddle packers back in the borehole.
- 2115 The straddle packers are at the packer test interval of 1,970 feet to 1,992 feet bpl and the drilling contractor begins to inflate the packers.
- 2150 The packers have been inflated to 455 pounds per square inch gauge (psig).



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- 2220 The drilling contractor begins tripping inside the drill pipe with the air line in preparation for air-lift development.
- 2300 The drilling contractor begins to condition the packer test interval. The estimated rate of development is approximately 1 gallon per minute (gpm).
- 0030 The drilling contractor continues conditioning the test interval.
- 0200 The drilling contractor continues conditioning the test interval.
- 0330 The drilling contractor continues conditioning the test interval.
- 0500 The drilling contractor continues conditioning the test interval.
- 0700 The drilling contractor continues conditioning the test interval.



LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT FPL

Proposed Turkey Point Units 6 and 7
Docket Nos. 52-040 and 52-041
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DATE 12-15-2011
THURS NIGHTS

JOB # 11771

JOBSITE NAME EW-1

JOBSITE LOCATION Turkey Point

PERSONNEL EMPLOYED TODAY

Table with columns: Crew Assignment, Employee - Full Name, Per Diem? (X), Onsite Hours, Offsite Hours, Total Hours. Includes names Michael A. Ramirez, Joan Lopez, James Macdonelle.

EQUIPMENT DEPLOYED TODAY

Table with columns: Description, Unit #, Status. Includes sub-tables for Working (WK), Standby (SB), Down in Shop (DS), Down on Site (DN), Mobilization (MB), Demobilization (DM), Available in Yard (AY), Available on Job (AV).

DAILY ACCOUNTING OF ACTIVITIES BY ITEM #

Large table with columns: Item #, Cost Code, Labor Activity, Hours. Lists activities from 1 to 45, including Short Duration Job, Safety Meeting, Training, etc.

MATERIALS USED TODAY

Table with columns: Quantity, Description. Includes entries for Safety Meetings, Blood borne Pathogens, Turkey Point Nuclear Facility Evacuation Planning, High Pressure hoses, and Nighttime operations communication.

TIME OF ACTIVITY BY ITEM #

Table with columns: From, To, Circle One (AM/PM), Item #. Grid for tracking activity times.

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

Table for comments containing text: T.I.H. 3 stands of Airline, Air Develop well. Clean/organize Parts Houses & Dog house. House keeping.

M. Ramirez
Installer's Signature
LCC 0581 08209

12/15/2011
Date

Client's Signature

PAYROLL

Date

Supervisor's Signature
Date



LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT FPL Proposed Turkey Point Units 6 and 7
Docket Nos. 62-040 and 62-041
L-2012-003 Enclosure 3 Page 16 of 31

DATE 12/16/11
FRI. DAY

JOB # 11771
JOBSITE LOCATION T.P.

PERSONNEL EMPLOYED TODAY

EQUIPMENT DEPLOYED TODAY

DAILY ACCOUNTING OF ACTIVITIES BY ITEM #

Table with columns: Crew Assignment, Employee - Full Name, Per Diem?, Onsite Hours, Offsite Hours, Total Hours. Rows include Danny Keeley, Andrey Popov, Bob Feetham, Akmal Burkhanov, and Freddie Lopez.

Table with columns: Description, Unit #, Status. Includes sub-tables for Working, Standby, Down in Shop, Down on Site, Mobilization, Demobilization, Available in Yard, Available on Job.

Large table with columns: Item #, Cost Code, Labor Activity, Hours. Lists activities from 1 to 45, including Short Duration Job, Onsite Mob/Demob, Job Preparation, Safety Meeting, etc.

MATERIALS USED TODAY

TIME OF ACTIVITY BY ITEM #

Table with columns: Quantity, Description. Includes entries for SAFETY MEETINGS, #1 PACKER TESTING, #2 HIRA, and PPE, LOADER SAFETY, PINCH POINTS, RUNNING AIRLINE, INHALATION HAZARDS.

Table with columns: From, To, Circle One, Item #. Grid for tracking activity times.

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

Text area for comments: PACKER TEST; AIR DEVELOP; ADD 3 AIR LINE STANDS CONTINUE AIR DEVELOPING. PAINT THE RIG, ORGANIZE YARD, CLEAN TRACKHOE & LOADER, FIX SILT FENCE.

Installer's Signature
LCC 0581 082209

Date 12/16/11

Client's Signature

PAYROLL

Date

Supervisor's Signature



LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT FPL
JOB SITE NAME EW-1

Proposed Turkey Point Units 6 and 7
Docket Nos. 52-040 and 52-041
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DATE 12-16-2011
FRI NIGHTS

JOB # 11771
JOB SITE LOCATION Turkey Point

PERSONNEL EMPLOYED TODAY

EQUIPMENT DEPLOYED TODAY

DAILY ACCOUNTING OF ACTIVITIES BY ITEM #

Table with columns: Crew Assignment, Employee - Full Name, Per Diem? (X), Onsite Hours, Offsite Hours, Total Hours. Includes entries for Michael A. Ramirez, Joan Lopez, and James McDonnell.

Table with columns: Description, Unit #, Status. Includes a legend for Working (WK), Standby (SB), Down in Shop (DS), Down on Site (DN), Mobilization (MB), Demobilization (DM), Available in Yard (AY), Available on Job (AV).

Large table with columns: Item #, Cost Code, Labor Activity, Hours. Lists 45 items of labor activity from 10000 to 90200, including Short Duration Job, Onsite Mob/Demob, Job Preparation, Safety Meeting, Training, Shop, Maintenance, Site Clean up, etc.

MATERIALS USED TODAY

TIME OF ACTIVITY BY ITEM #

Table with columns: Quantity, Description. Includes entries for Safety Meetings, Nutrition & Health, Back Injury Prevention, and PPE, H.I.R.A., eyes on path, Hand tools, slips - trips - falls, chemical protections.

Table with columns: From, To, Circle One (AM, PM), Item #. Grid for recording activity times.

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

Packer Test Air Develop. Continue Air Develop.
Housekeeping, pick up trash/tools, scrub floor/can Rig #/slips.
Scrub Drillers House / clean windows.

Installer's Signature [Signature]

Date

Client's Signature

PAYROLL

Date

Supervisor's Signature [Signature]

Date



LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT FPL
JOB SITE NAME Ew-1

Proposed Turkey Point Units 6 and 7
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DATE 12-17-2011

JOB # 11771

JOB SITE LOCATION Turkey Point

PERSONNEL EMPLOYED TODAY

Table with columns: Crew Assignment, Employee - Full Name, Per Diem? (X), Onsite Hours, Offsite Hours, Total Hours. Includes entries for Michael A. Ramirez, Joan Lopez, and James McDonnell.

EQUIPMENT DEPLOYED TODAY

Table with columns: Description, Unit #, Status. Includes a sub-table for Working, Standby, Down in Shop, Down on Site with codes WK, SB, DS, DN and MB, DM, AY, AV.

DAILY ACCOUNTING OF ACTIVITIES BY ITEM #

Large table with columns: Item #, Cost Code, Labor Activity, Hours. Lists 45 items from 10000 to 90200, including activities like Short Duration Job, Onsite Mob/Demob, Job Preparation, Safety Meeting, Training, etc.

MATERIALS USED TODAY

Table with columns: Quantity, Description. Includes handwritten entries: Safety Meetings, 1) running pump in on Airline, 2) Electrical Hazards, and a list of safety concerns: HERRA, PPE, Power tool use, ladder safety, eyes on path, overhead dangers, wildlife...

TIME OF ACTIVITY BY ITEM #

Table with columns: From, To, Circle One (AM, PM), Item #. Grid for recording activity times.

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

Continue Packertest Continue Air Develop.
House keeping. Jobsite Cleanup/organize. collect water samples

M. Ramirez
Installer's Signature
LCC 05R1 082209

12/17/2011
Date

Client's Signature

PAYROLL

Date

Supervisor's Signature



LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT FPL

Proposed Turkey Point Units 6 and 7
Docket Nos. 52-040 and 52-041
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DATE 12/18/11
SUN. DAY

JOB # 11771

JOB/SITE NAME EW-1

JOB/SITE LOCATION T.P.

PERSONNEL EMPLOYED TODAY

| Crew Assignment | Employee - Full Name | Per Diem? (X) | Onsite Hours | Offsite Hours | Total Hours |
|-----------------|----------------------|---------------|--------------|---------------|-------------|
| <u>DRILLER</u> | <u>DANNY KEELEY</u> | <u>X</u> | <u>12</u> | | <u>12</u> |
| <u>A.P</u> | <u>ANDREY POPOV</u> | <u>X</u> | <u>12</u> | | <u>12</u> |
| <u>B.R</u> | <u>BOB FEETHAM</u> | <u>X</u> | <u>12</u> | | <u>12</u> |
| <u>FL</u> | <u>FREDDIE LOPEZ</u> | <u>X</u> | <u>12</u> | | <u>12</u> |

EQUIPMENT DEPLOYED TODAY

| Description | Unit # | Status |
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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 | Safety Meeting | |
| 5 | 0005 | Traveling - Overhead | |
| 6 | 0006 | Shop - Overhead | |
| 7 | 0007 | Maintenance - Overhead | |
| 8 | 11250 | Training - Job Chargeable | |
| 9 | 11300 | Site Clean up | |
| 10 | 11350 | Instal# Sound Wall | |
| 11 | 11400 | Instal# Decon Pad | |
| 12 | 11450 | Instal# Surface Casing | |
| 13 | 11500 | Instal# Roadway & Driv 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 | 13100 | Instal# Conductor Pipe | |
| 20 | 13150 | Drill Port Hole | |
| 21 | 13200 | Geophysical Logging & Other Testing | |
| 22 | 13300 | Aquifer Zone Testing | |
| 23 | 13300 | Borehole Abandonment/Cement Plugs | |
| 24 | 13350 | Reaming | |
| 25 | 13400 | Under Reaming | |
| 26 | 13450 | Instal# Casing | |
| 27 | 13500 | Instal# Screen | |
| 28 | 13550 | Gravel Pack The Well | |
| 29 | 13600 | Instal# Annular Seal | |
| 30 | 13650 | Water Watching | |
| 31 | 14050 | Well Development Air Lift and Swab | |
| 32 | 14100 | Disposal Fluids & Cuttings | |
| 33 | 14150 | Furnish & Instal# 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 | 90000 | Equipment Repairs | |
| 44 | 90170 | Damages | |
| 45 | 90200 | Job Superintendent | |
| | | Lunch | |
| | | TOTAL HOURS | |

MATERIALS USED TODAY

| Quantity | Description |
|----------|--|
| | <u>SAFETY MEETINGS:</u> |
| | <u>#1 ELECTRICAL SAFETY</u> |
| | <u>#2 FALL PROTECTION</u> |
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| | |
| | <u>PPE, ELECTRICAL SAFETY, PINCH POINTS, LOADER SAFETY</u> |

TIME OF ACTIVITY BY ITEM

| From | To | Circle One | Item # |
|------|----|------------|--------|
| | | AM PM | |
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COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

PACKER TEST AIR DEVELOP STOP BIT
Developer 7:45:30 FOOT WITH AIR LINE
TRIP WITH SUB PUMP.
TEST SUB MER SUBLE PUMP - FREE CONCS ON
TRICONE BIT

[Handwritten Signature]

12/18/11

Client's Representative

RAVROLI

Date

[Handwritten Signature]
Supervisor's Representative

Other



LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT **FPL**

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

DATE **12-19-11**
MON DAY

JOB # **11771**

JOBSITE NAME **EWI**

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JOBSITE LOCATION **TP**

PERSONNEL EMPLOYED TODAY

| Crew Assignment | Employee - Full Name | Per Diem? (X) | Onsite Hours | Offsite Hours | Total Hours |
|-----------------|----------------------|---------------|--------------|---------------|-------------|
| DRILLER | Danny Keeley | X | 12 | | 12 |
| A.P. | ANDREY POPOV | X | 12 | | 12 |
| | BOB FEETHAM | X | 12 | | 12 |
| JN | JUAN NIETO | X | 12 | | 12 |
| JY | JUSTIN YEDMAN | X | 12 | | 12 |
| | FREDDIE LUPEZ | X | 12 | | 12 |

EQUIPMENT DEPLOYED TODAY

| Description | Unit # | Status |
|--------------|--------|-------------------|
| Working | WK | Mobilization |
| Standby | SB | Demobilization |
| Down in Shop | DS | Available in Yard |
| Down on Site | DN | Available on Job |

DAILY ACCOUNTING OF ACTIVITIES BY ITEM #

| Item # | Cost Code | Labor Activity | Hours |
|--------|-----------|--|-------|
| 1 | 10000 | Short Duration Job | |
| 2 | 11100 | Single Mob/Demob | |
| 3 | 11150 | Job Preparation | |
| 4 | 11200 | Safety Meeting | |
| 5 | 0005 | Traveling - Overhead | |
| 6 | 0006 | Shop - Overhead | |
| 7 | 0007 | Maintenance - Overhead | |
| 8 | 11200 | Traveling - 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 | 12000 | Test Mob Drilling | |
| 15 | 13100 | Geophysical Logging & Other Testing | |
| 16 | 12150 | Aquifer Zone Testing | |
| 17 | 12200 | Borehole Abandonment | |
| 18 | 12000 | 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 | Borehole Abandonment/Conductor Plugs | |
| 24 | 13350 | Reaming | |
| 25 | 13400 | Under Reaming | |
| 26 | 13450 | Install Casing | |
| 27 | 13500 | Install Screen | |
| 28 | 13550 | Groove 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 | Purchase & Install Test Pump and Discharge | |
| 34 | 14200 | Development Pumping | |
| 35 | 14250 | Test Pumping | |
| 36 | 14300 | Disinfection and Chlorination | |
| 37 | 19050 | Site 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 | 88000 | Equipment Repairs | |
| 44 | 90170 | Damages | |
| 45 | 90200 | Job Superintendent | |
| | | Lunch | |
| | | TOTAL HOURS | |

MATERIALS USED TODAY

| Quantity | Description |
|----------|---|
| | SAFETY MEETINGS |
| | #1 LOOKING OUT FOR EACH OTHER; PPE |
| | #2 HIRA |
| | PPE, TEAMWORK, LEADER SAFETY, TRIP HAZARDS, ELECTRICAL SAFETY |

TIME OF ACTIVITY BY ITEM #

| From | To | Circle One | Item # |
|------|----|------------|--------|
| | | AM PM | |
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COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

PACKER TEST RECOVERY

CLEAN UP YARD, HELP WELDER, PREPARE PACKER SLEEVE



LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT FPL

Proposed Turkey Point Units 6 and 7
Docket Nos. 52-040 and 52-041
L-2012-003 Enclosure 3 Page 24 of 31

DATE 12-20-11
TUE DAY

JOB # 11771

JOB SITE NAME EWJ

JOB SITE LOCATION TP

PERSONNEL EMPLOYED TODAY

| Crew Assignment | Employee - Full Name | Per Diem? (X) | Onsite Hours | Offsite Hours | Total Hours |
|-----------------|----------------------|---------------|--------------|---------------|-------------|
| <u>PT</u> | <u>Danny Keeley</u> | <u>X</u> | <u>12</u> | | <u>12</u> |
| <u>AP</u> | <u>Andrey Popov</u> | <u>X</u> | <u>12</u> | | <u>12</u> |
| <u>R/F</u> | <u>Bob Feenan</u> | <u>X</u> | <u>12</u> | | <u>12</u> |
| <u>D.L.</u> | <u>JOAN LOPEZ</u> | <u>X</u> | <u>12</u> | | <u>12</u> |
| <u>D.V.</u> | <u>JUSTIN YERMAN</u> | <u>X</u> | <u>12</u> | | <u>12</u> |
| <u>J.N.</u> | <u>JUAN NIETO</u> | <u>X</u> | <u>12</u> | | <u>12</u> |

EQUIPMENT DEPLOYED TODAY

| Description | Unit # | Status |
|--------------|--------|-------------------|
| Working | WK | Mobilization |
| Standby | SB | Demobilization |
| Down in Shop | DS | Available in Yard |
| Down on Site | DN | 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 | 4hrs - Overhead | |
| 7 | 0007 | Maintenance - Overhead | |
| 8 | 11250 | Training - Job Chargeable | |
| 9 | 11300 | Site Clean up | |
| 10 | 11350 | Install Sound Walls | |
| 11 | 11400 | Install Bacon Pad | |
| 12 | 11450 | Install Surface Casing | |
| 13 | 11800 | Install Roadway & Drill Pad | |
| 14 | 12050 | Test Hole Drilling | |
| 15 | 12100 | Geophysical Logging & Other Testing | |
| 16 | 12150 | Aquifer Zone Testing | |
| 17 | 12200 | Warehouse Abandonment | |
| 18 | 13050 | Production Well Installation | |
| 19 | 13100 | Install Conductor Pipe | |
| 20 | 13150 | Drill Pad Hole | |
| 21 | 13200 | Geophysical Logging & Other Testing | |
| 22 | 13250 | Aquifer Zone Testing | |
| 23 | 13300 | Warehouse Abandonment/Cement Plugs | |
| 24 | 13350 | Beaming | |
| 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 | Turnin & 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 | Home | |
| 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 | Job Superintendent | |
| | | Unacc | |
| | | TOTAL HOURS | |

MATERIALS USED TODAY

| Quantity | Description |
|----------|--|
| | <u>SAFETY MEETINGS</u> |
| | <u>#1 PACKER TESTING PROCEDURES</u> |
| | <u>#2 PACKER & HERMET HOSE EMERGENCY</u> |
| | <u>PPE, TRIP HAZARDS, PINCH POINTS,</u> |
| | <u>LOADER SAFETY,</u> |

TIME OF ACTIVITY BY ITEM #

| From | To | Circle One | Item # |
|------|----|------------|--------|
| | | AM PM | |
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COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

PACKER TEST RECOVERY, RECOVERED TO PAD LEVEL
LOSS OF PRESSURE IN PACKER.
TOOK WITH PACKER.

12/20/11

Client's Signature

PAYROLL

HRP

Supervisor's Signature

Date



LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

Proposed Turkey Point Units 6 and 7
 Docket Nos. 52-040 and 52-041
 L-2012-003 Enclosure 3 Page 25 of 31

DATE 12-20-2011
THE VIEW

NO. 11771
TO: QD

PERSONNEL EMPLOYED TODAY
 EMPLOYEE NAME EL-1

EMPLOYEE ID NUMBER

DAILY ACCOUNTING OF ACTIVITIES BY ITEM #

| Emp. # | Name | Emp. # | Hours | Offhrs | Total |
|--------|-------------------|--------|-------|--------|-------|
| N.M.K. | BOSIL GULOMOV | X | 12 | | 12 |
| V.G.T. | VLADISLAV ISHUMOV | X | 12 | | 12 |
| A.I.S. | AKHIL BURKHONOV | X | 12 | | 12 |
| V.M. | VICTOR MIKHAEL | X | 12 | | 12 |

| Description | Unit # | Status |
|--------------|--------|-------------------|
| Working | WK | Mobilization |
| Standby | SB | Demobilization |
| Down in Shop | DS | Available in Yard |
| Down on Site | DN | Available on Job |

| 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 | 0909 | Training - Overhead | |
| 6 | 0906 | Shop - Overhead | |
| 7 | 0007 | Maintenance - Overhead | |
| 8 | 11250 | Training - Job Chargeable | |
| 9 | 11300 | W/o Clean up | |
| 10 | 11350 | Install Sound Wa | |
| 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 | 12350 | Aquifer Zone Testing | |
| 17 | 12700 | Borehole Abandonment | |
| 18 | 13050 | Production Well Installation | |
| 19 | 13100 | Install Conductor Pipe | |
| 20 | 13150 | Drill Pipe Here | |
| 21 | 13200 | Geophysical Logging & Other Testing | |
| 22 | 13250 | Aquifer Zone Testing | |
| 23 | 13300 | Borehole Abandonment/Cement Plugs | |
| 24 | 13350 | Roaming | |
| 25 | 13400 | Indoor Roaming | |
| 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 | Murrah & 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 | 88000 | Equipment Repairs | |
| 44 | 90170 | Damages | |
| 45 | 90280 | Job Superintendent | |
| | | Lunch | |
| TOTAL HOURS | | | |

MATERIALS USED TODAY


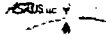
| Quantity | Description |
|----------|---|
| | SAFETY MTG: |
| (1) | T.I.H. PACKER |
| (2) | PACKER TEST |
| | HAND SAFETY: PINCH POINT: LOADER |
| | SAFETY: FALL-TRIPO-SLIP: |


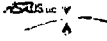
TIME OF ACTIVITY BY ITEM #

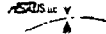
| From | To | Circle One | Item # |
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COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION



T.I.H. PACKER 21 STD + 30' + 3' + 45' PACKER SET 1970' ± 0.492'
 T.I.H. AIR LINE 6 STD. AIR DEVELOP. PACKER PRESS 450 PSI.
 SITE CLEAN UP: HOUSEKEEPING:

| 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 | | |
| 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 | | | | | | | |
| *Results appear to be anomalous and are suspected to be related to a sampling error. Countermeasures to prevent recurrence have been implemented. | | | | | | | | | |
| Note: TOC elevation is: 8.88 feet NAVD 88 | | | | | | | | | |

| 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 | | |
| 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 | | | | | | MHC  | |
|---|--------------|--|-------------------------------|---------------------------------|-----------------|------------|-------------------------|---|--|
| 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 | | |

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 | | |
| 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 | | | | | | | |

**Florida Power & Light Company
Turkey Point
Exploratory Well EW-1
Daily Kill Material Log**

| Date | Depth (feet bpl) | Kill Used | Approximate Volume (gallons) | Approximate Quantity (pounds) |
|-----------|---------------------|----------------------------|---------------------------------|----------------------------------|
| 7/7/2011 | 1655 | Bentonite /Barite | 569 | |
| 7/8/2011 | 1655 | Bentonite /Barite | 6,064 | |
| 7/9/2011 | 1655 | Bentonite /Barite | 2,085 | |
| 7/10/2011 | 1655 | Bentonite /Barite | 1,137 | |
| 7/11/2011 | 1655 | Bentonite /Barite | 9,475 | |
| 7/12/2011 | 1655 | Bentonite /Barite | 759 | |
| 7/13/2011 | 1655 | Bentonite /Barite | 4,548 | |
| 7/15/2011 | 1655 | Bentonite /Barite | 1,925 | |
| 7/16/2011 | 1655 | Bentonite /Barite | 2,200 | |
| 7/17/2011 | 1655 | Bentonite /Barite | 284 | |
| 7/18/2011 | 1655 | Bentonite /Barite | 275 | |
| 7/19/2011 | 1655 | Bentonite /Barite | 275 | |
| 7/31/2011 | 1542 | Bentonite /Barite | 18,950 | |
| 8/1/2011 | 1542 | Bentonite /Barite | 4,548 | |
| 8/2/2011 | 1542 | Bentonite /Barite | 284 | |
| 8/5/2011 | 1542 | Bentonite /Barite | 4,548 | |
| 8/6/2011 | 1542 | Bentonite /Barite | 2,274 | |
| 8/10/2011 | 1542 | Bentonite /Barite | 6,443 | |
| 8/10/2011 | 1542 | Salt | | 2,000 |
| 8/13/2011 | 1722 | Bentonite /Barite | 6,250 | |
| 8/14/2011 | 1722 | Bentonite /Barite | 379 | |
| 8/17/2011 | 2026 | Salt | | 2,000 |
| 8/18/2011 | 2026 | Bentonite /Barite | 379 | 2,000 |
| 8/19/2011 | 2110 | Bentonite/Barite and Salt | 570 | 2,000 |
| 8/20/2011 | 2110 | Bentonite /Barite and Salt | 189 | 4,000 |
| 8/21/2011 | 2288 | Salt | | 6,000 |
| 8/22/2011 | 2288 | Salt | | 4,000 |
| 8/24/2011 | 2396 | Bentonite /Barite and Salt | 379 | 2,000 |
| 8/25/2011 | 2396 | Salt | | 4,000 |
| 8/26/2011 | 2576 | Bentonite /Barite and Salt | 379 | 2,000 |
| 8/28/2011 | 2580 | Bentonite /Barite and Salt | 379 | 6,000 |
| 8/30/2011 | 2638 | Salt | | 4,000 |
| 8/31/2011 | 2638 | Bentonite /Barite/Salt | 569 | 2,000 |
| 9/1/2011 | 2652 | Bentonite /Barite | 379 | |
| 9/2/2011 | 2666 | Salt | | 2,000 |
| 9/3/2011 | 2666 | Bentonite /Barite | 569 | |
| 9/10/2011 | 3214 | Salt | | 6,000 |
| 9/11/2011 | 3210 | Salt | | 4,000 |
| 9/19/2011 | 3227 | Salt | | 4,000 |

| Florida Power & Light Company | | | | |
|--|---------------------|-----------|---------------------------------|----------------------------------|
| Turkey Point | | | | |
| Exploratory Well EW-1 | | | | |
| Daily Kill Material Log | | | | |
| Date | Depth (feet bpl) | Kill Used | Approximate Volume (gallons) | Approximate Quantity (pounds) |
| 9/22/2011 | 3228 | Salt | | 4,000 |
| 10/9/2011 | 3220 | Salt | | 6,000 |
| 10/10/2011 | 3220 | Salt | | 6,000 |
| 10/12/2011 | 3227 | Salt | | 4,000 |
| 10/23/2011 | 3234 | Salt | | 6,000 |
| 10/29/2011 | 3211 | Salt | | 6,000 |
| 11/7/2011 | 3223 | Salt | | 6,000 |
| 11/19/2011 | 3232 | Salt | | 4,000 |
| 11/28/2011 | 3232 | Salt | | 4,000 |
| 12/6/2011 | 3232 | Salt | | 6,000 |
| 12/14/2011 | 1960 | Salt | | 8,000 |
| 12/15/2011 | 1960 | Salt | | 8,000 |
| | | | | |
| feet bpl = feet below pad level | | | | |