

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

Florida Power & Light Company Turkey Point Units 6 & 7
Exploratory Well Project; Permit #0293962-001-UC
Weekly Construction Summary #15 dated August 19, 2011

WEEKLY CONSTRUCTION SUMMARY



McNabb Hydrogeologic Consulting, Inc.

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

August 19, 2011

MHCDEP-11-0365

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 #15**

Dear Mr. May:

This is the fifteenth weekly construction summary for the above referenced project. The reporting period for this weekly construction summary began at 7:00 AM, Thursday, August 11, 2011 and ended at 7:00 AM, Thursday, August 18, 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 cemented the 34-inch diameter intermediate casing in place, reamed the cement plug at the base of the 34-inch diameter casing to a depth of 1,543 feet below pad level (bpl) and was preparing to begin pilot hole drilling.

During this reporting period, the drilling contractor drilled a pilot hole over the interval from 1,543 feet bpl to 2,026 feet bpl. Pilot hole drilling was interrupted to allow coring of the interval from 1,721.5 feet bpl to 1,734.5 feet bpl. A total of 39 inches of core was collected within the cored interval, resulting in 25% core recovery. A lithologic description of the core is attached. Pilot hole drilling resumed after core collection and advanced to a depth of 2,026 feet bpl. The drilling contractor was preparing to collect another core at a starting depth of 2,026 feet bpl at the end of the reporting period. Pilot hole water samples were collected at 90-foot intervals during pilot hole drilling. The laboratory reports for the pilot hole water samples collected during this reporting period were not available by the end of this reporting period. The data for the pilot hole water samples collected during this reporting period will be included in the next weekly construction summary. Deviation surveys were collected at 60-foot intervals during pilot hole drilling. A deviation survey summary sheet is attached. Lithologic samples were collected at 10-foot intervals during pilot hole drilling. A description of the lithologic samples collected during this reporting period is attached. A

daily kill material log providing a summary of daily kill material and kill volume is attached.

There was no casing installation, cementing, packer testing, or exploratory well development 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 continue pilot hole drilling and collecting cores.

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 August 18, 2011. The most recent set of pad monitoring well sample results available is for samples collected on August 11, 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.


David McNabb, P.G.

Attachments: Consultant Daily Construction Log
Layne Christensen Company-Drilling Shift Report
Pad Monitor Well Water Quality Data Summary Sheets
Core No.1 Lithologic Description
Deviation Survey Summary Sheet
Lithologic Log
Daily Kill Material Log

Cc: George Heuler/FDEP-Tallahassee
Steve Anderson/SFWMD
Matthew Raffenberg/FPL
David Holtz/HCE

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



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Daily Construction Log

Date: August 11, 2011

Project: FPL Turkey Point EW

Contractor: Layne Christensen Company

Starting Depth: 1,543 feet bpl

Weather Day: Partly Cloudy, Hot, Storms

Weather Night: Warm and Humid

Activity: Rig Maintenance

FDEP UIC Permit #: 0293962-001-UC

Well No.: EW-1

Bit Diameter: 12 1/4-inch

Ending Depth: 1,543 feet bpl

Recorded By: Deborah Daigle/Eric Meyer

CONSTRUCTION ACTIVITIES

- 0700 The drilling contractor completes tripping the 12 1/4 -inch diameter drill bit into the borehole. The contractor will mix kill and then begin drilling the pilot hole.
- 0730 The drilling contractor is shut down due to a broken gasket on the air compressor for the reverse air system. Waiting for maintenance staff to arrive and fix the gasket.
- 1030 Florida Spectrum Environmental Laboratory has arrived on site to sample the pad monitoring wells.
- 1130 The drilling contractor continues to be shut down due to a broken gasket on the air compressor. The contractor has indicated that the person to repair the air compressor may not arrive until tomorrow.
- 1400 The contractor remains shut down, and performing miscellaneous maintenance tasks at the site, as well as mixing kill.
- 1800 The contractor continues to wait on the repair of the air compressor.
- 2200 The contractor is fabricating core boxes and working on rig maintenance.
- 0200 The contractor continues work on core box fabrication.
- 0600 The drilling contractor continues waiting on a part for the air compressor.



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Daily Construction Log

Date: August 12, 2011

Project: FPL Turkey Point EW

Contractor: Layne Christensen Company

Starting Depth: 1,543 feet bpl

Weather Day: Partly Cloudy, Hot, Storms

Weather Night: Warm and Humid

Activity: Pilot Hole Drilling

FDEP UIC Permit #: 0293962-001-UC

Well No.: EW-1

Bit Diameter: 12 1/4-inch

Ending Depth: 1,634 feet bpl

Recorded By: Mark McNeal/Eric Meyer

CONSTRUCTION ACTIVITIES

- 0700 The drilling contractor remains shut down due to a broken gasket on the air compressor for the reverse air system. Waiting for a repair person to arrive and fix the gasket. The repair is expected to occur this morning.
- 1200 The air compressor service representative has arrived to replace the gasket. They will also be doing some troubleshooting to try to determine the cause of the problem to avoid it happening again in the near future.
- 1400 The compressor is running again. They are still checking a few other items and will shut it down again to make sure all the safety guards are secure, but they hope to resume drilling within the hour.
- 1530 Pilot hole drilling resumes by the drilling contractor. Current drilling depth is 1,544 feet below pad level (bpl).
- 1730 The drilling contractor has reached 1,560 feet bpl with the pilot hole.
- 1900 The pilot hole depth is 1,570 feet bpl.
- 2130 Pilot hole drilling continues at the depth of 1,585 feet bpl.
- 0000 Pilot hole drilling continues at the depth of 1,595 feet bpl.
- 0200 Pilot hole drilling continues at the depth of 1,608 feet bpl.
- 0330 Pilot hole drilling is at the depth of 1,614 feet bpl. The contractor is servicing the top-head drive prior to making a drill pipe connection.
- 0400 Pilot hole drilling resumes.
- 0530 Pilot hole drilling continues at the depth of 1,623 feet bpl.
- 0650 Pilot hole drilling continues at the depth of 1,634 feet bpl.



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Daily Construction Log

Date: August 13, 2011

Project: FPL Turkey Point EW

Contractor: Layne Christensen Company

Starting Depth: 1,634 feet bpl

Weather Day: Partly Cloudy, Hot, Storms

Weather Night: Warm, Early Rain

Activity: Pilot Hole Drilling

FDEP UIC Permit #: 0293962-001-UC

Well No.: EW-1

Bit Diameter: 12 1/4-inch

Ending Depth: 1,721 feet bpl

Recorded By: Mark McNeal/Eric Meyer

CONSTRUCTION ACTIVITIES

- 0700 The drilling contractor's shift change occurs; the pilot hole depth is 1,634 feet below pad level (bpl).
- 0730 Pilot hole drilling continues at the depth of 1,638 feet bpl.
- 0830 Pilot hole drilling continues at the depth of 1,645 feet bpl.
- 0930 Pilot hole drilling continues at the depth of 1,652 feet bpl.
- 1030 Pilot hole drilling continues at the depth of 1,659 feet bpl.
- 1130 Pilot hole drilling continues at the depth of 1,665 feet bpl.
- 1230 Pilot hole drilling continues at the depth of 1,668 feet bpl.
- 1330 Pilot hole drilling continues at the depth of 1,675 feet bpl.
- 1430 Pilot hole drilling continues at the depth of 1,682 feet bpl.
- 1530 Pilot hole drilling continues at the depth of 1,689 feet bpl.
- 1630 Pilot hole drilling continues at the depth of 1,696 feet bpl.
- 1730 Pilot hole drilling continues at the depth of 1,700 feet bpl.
- 1800 Pilot hole drilling has reached the depth of 1,701 feet bpl.
- 1900 The pilot hole depth is 1,704 feet bpl.
- 1930 The drilling contractor collected a reverse-air water sample at the depth of 1,704 feet bpl.
- 2000 The drilling contractor conducted a deviation survey at the depth of 1,664 ft bpl. The pilot hole deviation at this depth is 0.1 degrees.
- 2115 Pilot hole drilling continues at the depth of 1,707 feet bpl.
- 2245 Pilot hole drilling continues at the depth of 1,716 feet bpl.
- 2335 The drilling contractor is preparing for rock coring. Coring will begin at a depth of 1,721.5 feet bpl. The drilling contractor will circulate to clean the borehole prior to removing the drill pipe and bit.
- 0100 The drilling contractor begins removal of the air-line for the reverse air circulation. The drill pipe is alive (flowing water).
- 0240 The drilling contractor has killed the flow in the drill pipe and is beginning to remove the drill pipe and bit from the borehole.



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- 0430 Two stands of drill pipe plus two collars remain in the hole. The drilling contractor is killing the backside of the drill pipe prior to bit removal and replacement with the core barrel.
- 0600 The drilling contractor is removing the last drill stands, collars, and bit from the hole.



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Daily Construction Log

Date: August 14, 2011

Project: FPL Turkey Point EW

Contractor: Layne Christensen Company

Starting Depth: 1,721 feet bpl

Weather Day: Partly Cloudy, Hot, Storms

Weather Night: Warm, Early Rain

Activity: Coring, Pilot Hole Drilling

FDEP UIC Permit #: 0293962-001-UC

Well No.: EW-1

Bit Diameter: 12 1/4-inch

Ending Depth: 1,730 feet bpl

Recorded By: Mark McNeal/Eric Meyer

CONSTRUCTION ACTIVITIES

- 0700 The drilling contractor has drilled the pilot hole to a depth of 1,721 feet below pad level (bpl). The drill bit will be removed from the well and replaced with the core barrel to collect a core beginning at a depth of 1,721.5 feet bpl.
- 0800 The drilling contractor is verifying measurements on the core barrel.
- 0830 The final pipe stand is being removed from the borehole. Two collars and the bit remain in the well.
- 0930 The drilling contractor has removed one of the collars from the well.
- 1200 The drilling contractor is tripping the core barrel into the borehole to core at a depth beginning at 1,721.5 feet.
- 1300 The drilling contractor has tripped in all but two stands of drill pipe.
- 1630 The airline is installed in the drill pipe to circulate water during coring. They are just about ready to begin coring.
- 1750 The drilling contractor begins rock coring (Core No. 1) at a depth of 1721.5 feet bpl.
- 1914 The core barrel has been drilled 13 feet to the depth of 1734.5 feet bpl. The driller breaks off the core and prepares to trip the core barrel out of the borehole.
- 2010 The drilling contractor begins tripping the core barrel out of the borehole.
- 0010 The core barrel is on the rig floor. Approximately 39 inches of dolomitic limestone core was recovered, the largest piece being 3 inches. The drilling contractor makes preparations to resume pilot hole drilling.
- 0200 The drilling contractor continues preparations for pilot hole drilling.
- 0230 The drilling contractor begins tripping the drill pipe back into the borehole to resume pilot hole drilling.
- 0540 The drilling contractor has completed tripping the drill bit to the bottom of the borehole at depth of 1,721 feet bpl. Pilot hole drilling has resumed.
- 0700 Drilling the pilot hole at a depth of 1,730 feet bpl.



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Daily Construction Log

Date: August 15, 2011

Project: FPL Turkey Point EW

Contractor: Layne Christensen Company

Starting Depth: 1,730 feet bpl

Weather Day: Partly Cloudy, Hot, Rain

Weather Night: Warm & Humid, Rain

Activity: Pilot Hole Drilling

FDEP UIC Permit #: 0293962-001-UC

Well No.: EW-1

Bit Diameter: 12 1/4-inch

Ending Depth: 1,847 feet bpl

Recorded By: Sally Durall/Eric Meyer

CONSTRUCTION ACTIVITIES

- 0700 The drilling contractor has drilled the pilot hole to a depth of 1,730 feet below pad level (bpl) during the night shift.
- 0800 Drilling the pilot hole at a depth of 1,738 feet bpl.
- 0900 Drilling the pilot hole at a depth of 1,745 feet bpl.
- 1015 Drilling the pilot hole at a depth of 1,755 feet bpl.
- 1135 Drilling the pilot hole at a depth of 1,764 feet bpl.
- 1245 Drilling the pilot hole at a depth of 1,772 feet bpl.
- 1350 Drilling the pilot hole at a depth of 1,774 feet bpl.
- 1500 Drilling the pilot hole at a depth of 1,776 feet bpl.
- 1605 Drilling the pilot hole at a depth of 1,779 feet bpl.
- 1745 Drilling the pilot hole at a depth of 1,791 feet bpl.
- 1830 Drilling the pilot hole at a depth of 1,795 feet bpl. The kelly is down and circulating.
- 1900 The contractor is preparing to kill the flow in the drill pipe prior to making a connection. A reverse-air water sample will be collected at the depth of 1795 feet bpl and two deviation surveys will be run (1,724 feet and 1,784 feet bpl) prior to resuming pilot hole drilling.
- 2015 The deviation surveys are complete. The deviation results for the depths of 1,724 feet bpl and 1,784 feet bpl are 0.0 degrees and 0.1 degrees, respectively.
- 2030 The drilling contractor makes a drill pipe connection and pilot hole drilling resumes at the depth of 1,795 feet bpl.
- 2130 Drilling the pilot hole at a depth of 1,799 feet bpl.
- 2300 Drilling the pilot hole at a depth of 1,809 feet bpl.
- 2350 Pilot hole drilling continues.
- 0115 Drilling the pilot hole at a depth of 1,817 feet bpl.
- 0245 Drilling the pilot hole at a depth of 1,824 feet bpl.
- 0400 Drilling the pilot hole at a depth of 1,830 feet bpl.
- 0500 Drilling the pilot hole at a depth of 1,837 feet bpl.
- 0605 Drilling the pilot hole at a depth of 1,843 feet bpl.
- 0700 Drilling the pilot hole at a depth of 1,847 feet bpl.



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Daily Construction Log

Date: August 16, 2011

Project: FPL Turkey Point EW

Contractor: Layne Christensen Company

Starting Depth: 1,847 feet bpl

Weather Day: Partly Cloudy, Hot

Weather Night: Warm, Clear

Activity: Pilot Hole Drilling

FDEP UIC Permit #: 0293962-001-UC

Well No.: EW-1

Bit Diameter: 12 1/4-inch

Ending Depth: 1,961 feet bpl

Recorded By: Sally Durall/Eric Meyer

CONSTRUCTION ACTIVITIES

- 0700 The drilling contractor has drilled the pilot hole to a depth of 1,847 feet below pad level (bpl) during the night shift.
- 0800 Drilling the pilot hole at a depth of 1,853 feet bpl.
- 0915 Drilling the pilot hole at a depth of 1,859 feet bpl.
- 1030 Drilling the pilot hole at a depth of 1,865 feet bpl.
- 1145 Drilling the pilot hole at a depth of 1,869 feet bpl.
- 1310 Drilling the pilot hole at a depth of 1,875 feet bpl.
- 1440 Drilling the pilot hole at a depth of 1,882 feet bpl.
- 1515 The kelly is down at 1,884 feet bpl and the drilling contractor is circulating the borehole clean in preparation to collect a pilot hole water quality sample at 1,884 and conduct a deviation survey at 1,844 feet bpl.
- 1530 The drilling contractor collects the pilot hole water quality sample at 1,884 feet bpl.
- 1555 The drilling contractor disconnects the drill pipe and trips the survey tool inside the drill pipe to 1,844 feet bpl.
- 1710 The deviation survey is complete and the drilling contractor trips the survey tool out of the drill pipe. The deviation survey result is 0.4 degree.
- 1725 The drilling contractor makes a drill pipe connection and resumes drilling the pilot hole from a depth of 1,884 feet bpl.
- 1815 Drilling the pilot hole at a depth of 1,888 feet bpl.
- 1915 Drilling the pilot hole at a depth of 1,895 feet bpl.
- 2010 Drilling the pilot hole at a depth of 1,900 feet bpl.
- 2100 Drilling the pilot hole at a depth of 1,905 feet bpl.
- 2200 Drilling the pilot hole at a depth of 1,912 feet bpl.
- 2300 Drilling the pilot hole at a depth of 1,918 feet bpl.
- 2345 Drilling the pilot hole at a depth of 1,923 feet bpl.
- 0145 The drilling contractor completed a deviation survey at the depth of 1,904 feet bpl. The deviation result is 0.4 degrees. Following the deviation survey, a 45 foot piece of drill pipe was added.
- 0215 Pilot hole drilling resumed.



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- 0300 Drilling the pilot hole at a depth of 1,933 feet bpl.
- 0410 Drilling the pilot hole at a depth of 1,941 feet bpl.
- 0500 Drilling the pilot hole at a depth of 1,947 feet bpl.
- 0600 Drilling the pilot hole at a depth of 1,954 feet bpl.
- 0700 Drilling the pilot hole at a depth of 1,961 feet bpl.



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Daily Construction Log

Date: August 17, 2011

Project: FPL Turkey Point EW

Contractor: Layne Christensen Company

Starting Depth: 1,961 feet bpl

Weather Day: Partly Cloudy, Hot

Weather Night: Warm and Overcast

Activity: Pilot Hole Drilling

FDEP UIC Permit #: 0293962-001-UC

Well No.: EW-1

Bit Diameter: 12 1/4-inch

Ending Depth: 2,026 feet bpl

Recorded By: Sally Durall/Eric Meyer

CONSTRUCTION ACTIVITIES

- 0700 The drilling contractor has drilled the pilot hole to a depth of 1,961 feet below pad level (bpl) during the night shift.
- 0815 The kelly is down at 1,974 feet bpl and the drilling contractor is circulating the borehole clean in preparation to collect a pilot hole water quality sample at 1,975 and conduct a deviation survey at 1,964 feet bpl.
- 0840 The drilling contractor collects the pilot hole water quality sample at 1,974 feet bpl.
- 0845 The drilling contractor disconnects the drill pipe and trips the survey tool inside the drill pipe to 1,964 feet bpl.
- 0915 The deviation survey is complete and the drilling contractor trips the survey tool out of the drill pipe. The deviation survey result is 0.1 degree.
- 0955 The drilling contractor makes a drill pipe connection and resumes drilling the pilot hole from a depth of 1,974 feet bpl.
- 1010 Drilling the pilot hole at a depth of 1,976 feet bpl.
- 1050 Drilling the pilot hole at a depth of 1,981 feet bpl.
- 1205 Drilling the pilot hole at a depth of 1,986 feet bpl.
- 1300 The pilot hole has been drilled to a depth of 1,993 feet bpl. The drilling contractor is currently circulating the borehole clean.
- 1405 Resume drilling from 1,993 feet bpl.
- 1545 Drilling the pilot hole at a depth of 2,000 feet bpl.
- 1655 Drilling the pilot hole at a depth of 2,005 feet bpl.
- 1735 Drilling the pilot hole at a depth of 2,010 feet bpl.
- 1800 Drilling the pilot hole at a depth of 2,011 feet bpl.
- 1900 Drilling the pilot hole at a depth of 2,013 feet bpl.
- 2015 The pilot hole has reached the depth of 2,019 feet bpl and the drilling contractor is preparing to add a joint of drill pipe (45 feet).
- 2100 Drilling the pilot hole at a depth of 2,020 feet bpl.
- 2155 The pilot hole has been drilling to a depth of 2,023 feet bpl. The drilling contractor is circulating to clean the borehole and obtain rock cuttings from the 2,021 feet to 2,023 foot depth interval.



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- 2315 Drilling the pilot hole continues in the interval from 2,023 feet to 2,026 feet for evaluation of a potential coring depth.
- 0030 After evaluation of drilling data and rock cuttings, at coring depth of 2,026 feet bpl was selected. The drilling contractor will continue to circulate to clean and condition the borehole prior to tripping out the drill bit.
- 0110 The drilling contractor begins airline removal in preparation to trip out the drill bit.
- 0130 The drilling contractor begins tripping the bit from the borehole. Salt was added to the well to lower the static water level.
- 0435 The drill bit is on the rig floor.
- 0505 The drilling contractor begins tripping the core barrel into the borehole to the coring depth of 2,026 feet bpl.
- 0700 The core barrel continues to be tripped into the hole.

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT **42**

Proposed Turkey Point Units 6 and 7

DATE _____

JOB #

19. **JOB SITE NAME**

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THURSDAY DAY

JOB SITE LOCATION

Printed on Recycled Paper

EQUIPMENT DEPLOYED TODAY

DAILY ACCOUNTING OF ACTIVITIES BY ITEM #

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
DISCO	Danny Keeley	X	12		12
J	Jones Payne	X	12		12
RLR	Bob Feetham	X	12		12
WC	BILL CREALFORD	X	12		12

MATERIALS USED TODAY

Quantity	Description
	SAFETY MEETING
#7	HARD PPE
#	SIGNAL BOOKS
	ELLIS LEAR @ 7 AM - 5 PM

TIME OF ACTIVITY BY ITEM AND

[illegible]

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

CIRCULATE MCLY, SHUT DOWN TO REPAIR
SULFUR AIR COMPRESSOR, RIF KILL, HELP
ELIOT WITH SWERLO MATHE, UNLOAD
STABILIZERS OF TRUCK, ENVIRONMENTAL
WALL THRU, ORGONIZE OFFICE

Item #	Cost Code	Labor Activity	Hours
1	10000	Short Duration Job	
2	11100	Ins to Mob/Demob	
3	11150	Job Preparation	
4	11200	Safety Meeting	
5	0005	Training - Overhead	
6	0005	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 & Driv. Pad	
14	12050	Test Hole Drilling	
15	12100	Geophysical Logging & Other Testing	
16	12150	Hydrule Zone Testing	
17	12200	Block & Abandonment	
18	13050	Production Well Installation	
19	13100	Install Conductor Pipe	
20	13150	DETHLOT Hole	
21	13200	Geophysical Logging & Other Testing	
22	13250	Hydrule Zone Testing	
23	13300	Block & 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 Slurries & 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 and by	
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	

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CURRENT FPL
TE NAME EW

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DATE 8/10/55
Thurs Night

JOB # 11 771
JOB SITE LOCATION TP

PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
USCIS	George Adiga	X	12		12
MR	Mike Ramirez	X	12		12
MP	Marko Perez Cesar	X	12		12
AP	Andrey Popov	X	12		12

EQUIPMENT DEPLOYED TODAY

Description		Unit #	Status
Working	MB	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 IN

Item #	Cost Code	Labor Activity	Hours
1	10000	Short Duration Job	
2	11100	Disj. Mob/Demob	
3	11150	Job Preparation	
4	11200	Job Meeting	
5	0005	Training - Overhead	
6	0006	Shop - Overhead	
7	0007	Maintenance - Overhead	
8	11250	Training - Job Chargeable	
9	11300	Bike Clean up	
10	11350	Install Sound Walls	
11	11400	Install Decon Pad	
12	11450	Final Surface Coating	
13	11500	Install Roadway & Drain Pad	
14	12050	Test Hole Drilling	
15	12100	Geophysical Logging & Other Testing	
16	12150	Fluid for Zone Testing	
17	12200	Corehole Abandonment	
18	13050	Production Well Installation	
19	13100	Install Conductor Pipe	
20	13150	Install Production	
21	13200	Geophysical Logging & Other Testing	
22	13250	Fluid for Zone Testing	
23	13300	Corehole Abandonment / Cement Plugs	
24	13350	Teaming	
25	13400	Under Reaming	
26	13450	Install Casing	
27	13500	Final Screen	
28	13550	Gravel Pack The Well	
29	13600	Final Annular Seal	
30	13650	Wait or Watching	
31	14050	Well Development / Air Lift and Swab	
32	14100	Disposal of Holes & Cavings	
33	14150	Pressure and Flow Test Pump and Discharge	
34	14200	Development Pumping	
35	14250	Flow Pumping	
36	14300	Disinfection and Chlorination	
37	19050	Other 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	86000	Equipment Repairs	
44	90170	Damages	
45	90200	Job Superintendent	
		Lunch	
		TOTAL HOURS	

MATERIALS USED TODAY

Quantity	Description
	1st Safety Meeting: Good House Keeping
	2nd Safety Meeting: Lockout Tagout
	Lightning Break: 0600 - 0630

TIME OF ACTIVITY BY ITEM

[illegible]

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

Made 8 core boxes for coring. Moved
10 joints of 24" casing back out of water
puddle. Org. and 25 parts house, clean
changeover scrubbed floor and all hand rails
Paint dead man and kick plate and pad.
and 4 HPU in control pad.

Installer's Signature
LOC 0681032207

Date:

Client's Signature _____

PAYROLL

DATE: -

— 426 —



encls. FPL -

IDENTIFICATION: E W 7

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DATE 8-12-11

1250A-15

JOB # 11777

JOBS TE LOCATION T-R

PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
DRILL	Danny Keeley	X	12		12
JP	James Payne	X	12		12
GP	Bob Feetham	X	12		12
WC	BILL CRAWFORD	X	12		12

EQUIPMENT DEPLOYED TODAY

Description	Unit #	Status
Working	MB	Modulation
Standby	SB	Demonstration
Downen Shop	DS	Available on Yard
Down on Site	AS	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	00005	Training - Overhead	
6	00006	Shop - Overhead	
7	00007	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 Side 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/Filtrate and Swab	
32	14100	Disposal of Mud & Cuttings	
33	14150	Furnish & Install Test Pump and Discharge	
34	14200	Development Pumping	
35	14150	Test Pumping	
36	14300	Disinfection and Chlorination	
37	19050	Office Activities Mob/Demob	
38	19100	Shop	
39	19150	Industrialation	
40	19550	Other Activities Stanley	
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 MEETING
#1	EMPLOYEE RESPONSIBILITY
#2	LAYNE HANDBOOK / LINE OF FIRE
	ELLS
	7-AM - 5 PM

TIME OF ACTIVITY BY ITEM

[illegible]

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

PLACED COLLOR PLATE ON FLOOR, CLEANED UP
AROUND NEW COUNTERMETER PAD, HELICO BLUES
NEAR STAIRS, PLACE CURING PUMP, ORANGE
STEEL IN YARD, HOW KRAAK SLEASH HER COMPRESSION
BREATH CIRCULATION TAG @ 1542' BPL START DISIN WITH 12V

Layne Christensen Company - Drilling Shift Report

CLONE

FPL

Proposed Turkey Point Units 6 and 7
Docket Nos. 52-040 and 52-041
L-2011-353 Enclosure 3 Page 17 of 37

DATE _____

8/2/44

JOB #:

11 771

JOB SITE NAME

EWI

L-2011-353 Enclosure 3 Page 17 of 37

Friday Night

JOB SITE LOCATION

TF

PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
Driller	George Haga	X	12		12
MP	Mike Ramirez	X	12		12
MP	Marko Perez Cesar	X	12		12
AP	Andrey Popov	X	12		12

EQUIPMENT DEPLOYED TODAY

Description		Unit #	Status
Working	MB	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	0005	Shop - Overhead	
7	0007	Maintenance: Overhead	
8	11250	Fracturing Job Chargeable	
9	11300	Site Clean up	
10	11350	Install Sound Walls	
11	11400	Install Decor Pad	
12	11450	Install Surface Casing	
13	11500	Install Roadway & Drain Pad	
14	12050	Test Hole Drilling	
15	12100	Geophysical Logging & Core Testing	
16	12150	Liquifier Zone Testing	
17	12200	Corehole Abandonment	
18	13050	Production Well Installation	
19	13100	Install Conductor Pipe	
20	13150	Drill Pilot Hole	
21	13200	Geophysical Logging & Core Testing	
22	13250	Liquifier Zone Testing	
23	13300	Corehole 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 Sluts & Cuttings	
33	14150	Furnish & Install Test Pump and Charge	
34	14200	Development Pumping	
35	14250	Test Pumping	
36	14300	CH Injection and CH Fracture	
37	19050	Onsite 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
	1st Safety Meeting: Hazard Comm.
	2nd Safety Meeting: Hazardous waste has to go
	(2) Electricians

TIME OF ACTIVITY BY ITEM

[illegible]

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

Continue to Drill 12Y bit from 1570 bpl. to 1614 bpl. Kelley dr
point Swirlomatic. Help electricians rig up core pump help
electrician rig up booster pump. Circulate, grease packing
Make connection: Continue to Drill 12Y bit from 1614 bpl
to 1617 1/4. Empty trash, Square away change house
PAIL entire location OR all lose trash.



PLANNED CRANE REPAIRS/MAINTENANCE - DRILLING SHIFT REPORT

Docket Nos. 52-040 and 52-041

L-2011-353 Enclosure 3 Page 18 of 37

DATE 8/13/11

SAT DAYS

JOB # 11771

JOB SITE LOCATION T.P.

CUSTOMER F.P.L.

PERSONNEL

PERSONNEL EMPLOYED TODAY

Des. Assignment	Employee Name	Per Shift (H)	Onsite Hours	Offsite Hours	Total Hours
Driller	Danny Keeler	X	12		12
JP	James Payne	X	12		12
RICP	BOB FORTMAN	X	12		12
WC	BILL CROFTON	X	12		12

MATERIALS USED TODAY

Quantity	Description
17Z	SAFETY MEETING
17Z	ACCIDENT REPORTING PROCEDURES
17Z	HIRA

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

CONTINUE DRILLING 12 1/4" BIT 1634' BRL TO 1704' BRL CIRCULAT HOLE CLEAN ORGANIZE BACK YARD PALLETS, SCRAP STEEL AND LUGS CLEAN RIG PREP C-PLATES FOR RIG PULLED RIG OFF RUNAROUND LIGHTNING STR.

TIME OF ACTIVITY BY ITEM #

Item #	WB	Activity	AW
1	11	Drill to 1634'	12
2	11	Drill to 1704'	12
3	11	Drill to 1704'	12
4	11	Drill to 1704'	12
5	11	Drill to 1704'	12
6	11	Drill to 1704'	12
7	11	Drill to 1704'	12
8	11	Drill to 1704'	12
9	11	Drill to 1704'	12
10	11	Drill to 1704'	12
11	11	Drill to 1704'	12
12	11	Drill to 1704'	12
13	11	Drill to 1704'	12
14	11	Drill to 1704'	12
15	11	Drill to 1704'	12
16	11	Drill to 1704'	12
17	11	Drill to 1704'	12
18	11	Drill to 1704'	12
19	11	Drill to 1704'	12
20	11	Drill to 1704'	12
21	11	Drill to 1704'	12
22	11	Drill to 1704'	12
23	11	Drill to 1704'	12
24	11	Drill to 1704'	12
25	11	Drill to 1704'	12
26	11	Drill to 1704'	12
27	11	Drill to 1704'	12
28	11	Drill to 1704'	12
29	11	Drill to 1704'	12
30	11	Drill to 1704'	12
31	11	Drill to 1704'	12
32	11	Drill to 1704'	12
33	11	Drill to 1704'	12
34	11	Drill to 1704'	12
35	11	Drill to 1704'	12
36	11	Drill to 1704'	12
37	11	Drill to 1704'	12
38	11	Drill to 1704'	12
39	11	Drill to 1704'	12
40	11	Drill to 1704'	12
41	11	Drill to 1704'	12
42	11	Drill to 1704'	12
43	11	Drill to 1704'	12
44	11	Drill to 1704'	12
45	11	Drill to 1704'	12
46	11	Drill to 1704'	12
47	11	Drill to 1704'	12
48	11	Drill to 1704'	12
49	11	Drill to 1704'	12
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51	11	Drill to 1704'	12
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68	11	Drill to 1704'	12
69	11	Drill to 1704'	12
70	11	Drill to 1704'	12
71	11	Drill to 1704'	12
72	11	Drill to 1704'	12
73	11	Drill to 1704'	12
74	11	Drill to 1704'	12
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93	11	Drill to 1704'	12
94	11	Drill to 1704'	12
95	11	Drill to 1704'	12
96	11	Drill to 1704'	12
97	11	Drill to 1704'	12
98	11	Drill to 1704'	12
99	11	Drill to 1704'	12
100	11	Drill to 1704'	12

DAILY ACCOUNTS OF ACTIVITIES BY ITEM #

Item #	Est. Code	Activity	Hours
1	1000	Drill to 1634'	
2	1100	Drill to 1704'	
3	1100	Drill to 1704'	
4	1100	Drill to 1704'	
5	1100	Drill to 1704'	
6	1100	Drill to 1704'	
7	1100	Drill to 1704'	
8	1100	Drill to 1704'	
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94	1100	Drill to 1704'	
95	1100	Drill to 1704'	
96	1100	Drill to 1704'	
97	1100	Drill to 1704'	
98	1100	Drill to 1704'	
99	1100	Drill to 1704'	
100	1100	Drill to 1704'	
TOTAL HOURS			

Installer's Signature

Client's Signature

PAYROLL

Supervisor's Signature

Date



LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

Proposed Turkey Point Units 6 and 7
Docket Nos. 52-040 and 52-041
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CLIENT F.D.L.JOB SITE NAME EW-1DATE 8-13-11
SAT NIGHTJOB # 11771HOURS WORKED 8 P.

PERSONNEL EMPLOYED TODAY

EQUIPMENT DEPLOYED TODAY

DAILY ACCOUNTING OF ACTIVITIES BY ITEM

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
DRILLER	BOSTI GUDIMOV	X	12		12
V I	VLAD ISHIMOV	X	12		12
JL	JOAN LOPEZ	X	12		12
IP	IGOR POPOV	X	12		12

Description	Unit #	Status
Working	WR	Mobile/Other
Standby	SD	Demobilization
Down in Shop	DS	Available in Yard
Down on Site	DN	Available on Job

Item #	Code	Activity	Hours
1	10000	Unit Mobilization	
2	10100	Drill Motor/Engine	
3	10110	Light Preparation	
4	10200	Drill Assembly	
5	10300	Drilling - Open Hole	
6	10400	Drill - Closed End	
7	10500	Drill - Open End	
8	10600	Drill - Open End	
9	10700	Drill - Open End	
10	10800	Drill - Open End	
11	10900	Drill - Open End	
12	11000	Drill - Open End	
13	11100	Drill - Open End	
14	11200	Drill - Open End	
15	11300	Drill - Open End	
16	11400	Drill - Open End	
17	11500	Drill - Open End	
18	11600	Drill - Open End	
19	11700	Drill - Open End	
20	11800	Drill - Open End	
21	11900	Drill - Open End	
22	12000	Drill - Open End	
23	12100	Drill - Open End	
24	12200	Drill - Open End	
25	12300	Drill - Open End	
26	12400	Drill - Open End	
27	12500	Drill - Open End	
28	12600	Drill - Open End	
29	12700	Drill - Open End	
30	12800	Drill - Open End	
31	12900	Drill - Open End	
32	13000	Drill - Open End	
33	13100	Drill - Open End	
34	13200	Drill - Open End	
35	13300	Drill - Open End	
36	13400	Drill - Open End	
37	13500	Drill - Open End	
38	13600	Drill - Open End	
39	13700	Drill - Open End	
40	13800	Drill - Open End	
41	13900	Drill - Open End	
42	14000	Drill - Open End	
43	14100	Drill - Open End	
44	14200	Drill - Open End	
45	14300	Drill - Open End	
46	14400	Drill - Open End	
47	14500	Drill - Open End	
48	14600	Drill - Open End	
49	14700	Drill - Open End	
50	14800	Drill - Open End	
51	14900	Drill - Open End	
52	15000	Drill - Open End	
53	15100	Drill - Open End	
54	15200	Drill - Open End	
55	15300	Drill - Open End	
56	15400	Drill - Open End	
57	15500	Drill - Open End	
58	15600	Drill - Open End	
59	15700	Drill - Open End	
60	15800	Drill - Open End	
61	15900	Drill - Open End	
62	16000	Drill - Open End	
63	16100	Drill - Open End	
64	16200	Drill - Open End	
65	16300	Drill - Open End	
66	16400	Drill - Open End	
67	16500	Drill - Open End	
68	16600	Drill - Open End	
69	16700	Drill - Open End	
70	16800	Drill - Open End	
71	16900	Drill - Open End	
72	17000	Drill - Open End	
73	17100	Drill - Open End	
74	17200	Drill - Open End	
75	17300	Drill - Open End	
76	17400	Drill - Open End	
77	17500	Drill - Open End	
78	17600	Drill - Open End	
79	17700	Drill - Open End	
80	17800	Drill - Open End	
81	17900	Drill - Open End	
82	18000	Drill - Open End	
83	18100	Drill - Open End	
84	18200	Drill - Open End	
85	18300	Drill - Open End	
86	18400	Drill - Open End	
87	18500	Drill - Open End	
88	18600	Drill - Open End	
89	18700	Drill - Open End	
90	18800	Drill - Open End	
91	18900	Drill - Open End	
92	19000	Drill - Open End	
93	19100	Drill - Open End	
94	19200	Drill - Open End	
95	19300	Drill - Open End	
96	19400	Drill - Open End	
97	19500	Drill - Open End	
98	19600	Drill - Open End	
99	19700	Drill - Open End	
100	19800	Drill - Open End	
101	19900	Drill - Open End	
102	20000	Drill - Open End	
103	20100	Drill - Open End	
104	20200	Drill - Open End	
105	20300	Drill - Open End	
106	20400	Drill - Open End	
107	20500	Drill - Open End	
108	20600	Drill - Open End	
109	20700	Drill - Open End	
110	20800	Drill - Open End	
111	20900	Drill - Open End	
112	21000	Drill - Open End	
113	21100	Drill - Open End	
114	21200	Drill - Open End	
115	21300	Drill - Open End	
116	21400	Drill - Open End	
117	21500	Drill - Open End	
118	21600	Drill - Open End	
119	21700	Drill - Open End	
120	21800	Drill - Open End	
121	21900	Drill - Open	

United Kingdom



LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT F.P.L

Proposed Turkey Point Units 6 and 7
Docket Nos. 52-040 and 52-041
L-2011-353 Enclosure 3 Page 21 of 37

DATE 8-14-2011
SUN. NIGHT

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
DRILLER	BOSIT GULOMOV	X	12		12
VA	VLAD ISHIMOV	X	12		12
DL	JOAN LOPEZ	X	12		12
IP, ICOR	IGOR POPOV	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	11000	Critical Path Work	
3	11001	Job Preparation	
4	11005	Safety Meeting	
5	0000	Training - Overhead	
6	0006	Shop - Overhead	
7	0007	Workshop - Overhead	
8	11001	Training - Job Changeable	
9	11001	Job Changeable	
10	11001	Job Changeable	
11	11001	Job Changeable	
12	11001	Job Changeable	
13	11001	Job Changeable	
14	11001	Job Changeable	
15	11001	Job Changeable	
16	11001	Job Changeable	
17	11001	Job Changeable	
18	11001	Job Changeable	
19	11001	Job Changeable	
20	11001	Job Changeable	
21	11001	Job Changeable	
22	11001	Job Changeable	
23	11001	Job Changeable	
24	11001	Job Changeable	
25	11001	Job Changeable	
26	11001	Job Changeable	
27	11001	Job Changeable	
28	11001	Job Changeable	
29	11001	Job Changeable	
30	11001	Job Changeable	
31	11001	Job Changeable	
32	11001	Job Changeable	
33	11001	Job Changeable	
34	11001	Job Changeable	
35	11001	Job Changeable	
36	11001	Job Changeable	
37	11001	Job Changeable	
38	11001	Job Changeable	
39	11001	Job Changeable	
40	11001	Job Changeable	
41	11001	Job Changeable	
42	11001	Job Changeable	
43	11001	Job Changeable	
44	11001	Job Changeable	
45	11001	Job Changeable	
46	11001	Job Changeable	
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95	11001	Job Changeable	
96	11001	Job Changeable	
97	11001	Job Changeable	
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324	11001	Job Changeable	
325	11001	Job Changeable	
326	11		
327		TOTAL HOURS	

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

Proposed Turkey Point Units 6 and 7

Docket Nos. 52-040 and 52-041

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DATE _____

B-75-2044

MON NIGHT

109

1123

Introduction

FRP

CLIENT

F.P.L

JOB SITE NAME

EW - 1

PERSONNEL EMPLOYED TODAY

NONLUMINENT EXPLORATION

DAILY ACCOUNTING OF ACTIVITIES BY ITEM #

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
DEITER	BOSIT GULLOMOV	X	12		12
VI	VLAD ISHIMOV	X	12		12
JL	JOAN LOPEZ	X	12		12
IP	IGOR POPOV	X	12		12

MATERIALS USED TODAY

Quantity	Description
	SAFETY MATH!
①	STOP, THINK, ACT, REVIEW!
②	AT RISK PRACTICES TO CONSIDER AVOIDING! H.I.R.A.

TIME OF ACTIVITY BY ITEM

[illegible]

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

CIRCULATE THE FLO/G, CLEAN THE BOTTOM. MAKE CONNECTION.
RUN THE SURVEY @ 1724' BPL. 0 AND 1784' BPL. 1 -
CONTINUE TO DRILL FROM 1- 1795' BPL - TO 1847' BPL
MIX KILL 1 BAC - GE 1 - 2 BAC - BAR. 1/2 PIT KILL AND
KILL BIT

Item #	Cost Code	Labor Activity	Hours
1	1000	Short Duration Job	
2	11200	Dredge Mob/Demob	
3	11250	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 Coating	
13	11500	Install Roadway & Drill Pad	
14	12050	Test Hole Drilling	
15	12100	Geophysical Logging & Other Testing	
16	12150	Aquifer Zone Testing	
17	12200	Wellsite Abandonment	
18	13150	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	Wellbore Abandonment/Cement Plugs	
24	13350	Grouting	
25	13400	Under Reaming	
26	13450	Install Casing	
27	13500	Install Screen	
28	13550	Gravel Pack The Well	
29	13600	Install Annular Seal	
30	13650	Water Watching	
31	14050	Well Development Air Lift and Sweep	
32	14100	Removal of Huds & Closures	
33	14150	Turnin & Install Test Pump and Discharge	
34	14200	Development Pumping	
35	14250	Test Pumping	
36	14300	Hydrate In 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	55000	Job Superintendent	
		Bunch	
		TOTAL HOURS	

Infarct Size

Client's Signature

RAYBOLL

• **Imported into Storage Unit**

4. **Date** _____

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

Proposed Turkey Point Units 6 and 7

Docket Nos. 52-040 and 52-041

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NäT

DATE 8/10/2011
TAC- Day Shift

108

477

CLIENT

FP/

JOB SITE NAME

FW.1

JOB SITE LOCATION

Tuesday, 10/11/18

PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
Driller	George Hage	X	12		12
MU	Mike Ramirez	X	12		12
MP	Marko Perez Cesak	X	12		12
AP	Andrey Popov	X	12		12

RECEIVED DEPT. OF THE ARMY

[illegible]

ONLY A REPORTING OF ACTIVITIES BY ITSELF

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	Trailing - Job Chargeable	
9	11300	#1 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	Drill Pad/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 Slurries & 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
1 st	Safety meeting: Turkey Point Safety Coverage Plan
2 nd	Safety meeting: STAR procedures

Welder	Time In	Time Out
Ellis Combs	0700	1700

TIME OF ACTIVITY BY ITEM NUMBER

[illegible]

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

CONTINUE to Drill w/ 12 1/2 bit From 1847 bpl to 1884 bpl
Clean up Run deviation Survey 1844 bpl @ .4 degrees catch
water sample make connection CONTINUE to drill w/ 12 1/2 bit
From 1885 bpl to 1891 bpl Help fix air slip, Hole covers
for pit Rig up booster pump Unload Also metal truck w/ flat bar

Installer's Signature

Client's Signature

PAYROLL

Зорановић, Радан

□

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

Proposed Turkey Point Units 6 and 7

Docket Nos. 52-040 and 52-041

~~L-2011-353~~ Enclosure 3 Page 25 of 37

办证30

8-16-2011

THE NIGHT

2009

1177.

CLIENT

F P L

JOBSITE NAME

7-3-1

PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
MILLER	BOSIT GULOMOV	X	12		12
VE	VLAD ISHIMOV	X	12		12
1-1	JOAN LOPEZ	X	12		12
1-1	IGOR PODOV	X	12		12

EQUIPMENT DEPLOYED TODAY

[illegible]

DAILY ACCOUNTING OF ACTIVITIES BY ITEM

Item #	Cost Code	Labor Activity	Hours
1	10000	Short Duration Job	
2	11200	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	W/c 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 Hole Drilling	
15	12500	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	13050	Water Watching	
31	14050	Well Development At 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	Shop	
39	19150	Administration	
40	19500	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	
		Subtotal	
		TOTAL HOURS	

MATERIALS USED TODAY

Quantity	Description
	SAFETY MTC:
①	SAFE WORK PRACTICES.
②	P.P.E.

TIME OF ACTIVITY BY ITEM

[illegible]

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

DRILL 12 1/2 BIT FROM 1-1891' B.P.L. TO 1-1904' B.P.L.
MAKE CONNECTION RAN SURVEY @ .4. CO BACK DRILL
1904' B.P.L. - TO 1960' B.P.L.

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LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

Proposed Turkey Point Units 6 and 7

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DATE: 9-17-2011

WED NIGHT

File: 11711

7-2

CLIENT

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PERSONNEL EMPLOYED TODAY

100-443887-1002

DAILY ACCOUNTING OF ACTIVITIES BY ITEM. #

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
Miller	Boris Gulemov	X	12		12
VI	VLAD ISLIMOV	X	2		2
J.P	JAMES PAYNE	X	12		12
W.L	JOAN LOPEZ	X	12		12
T.B	IGOR POPOV	X	12		12

Description	Unit #	Status

Working	WK	Mobilization	MO
Standby	SB	Demo/tear down	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	Install 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	Wardrobe Abandonment	
18	11300	Production Well Installation	
19	11100	Install Conductor Pipe	
20	11150	Test Pot Hole	
21	11300	Geophysical Logging & Other Testing	
22	11350	Aquifer Zone Testing	
23	13300	Wardrobe Abandonment/Cement Slugs	
24	13350	Teaming	
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 After Land Swab	
32	14100	Disposal of Muds & Cuttings	
33	14150	Turnin & Install Test Pump and Discharge	
34	14200	Development Pumping	
35	14250	Test Pumping	
36	14300	Disinfection and Chlorination	
37	19050	Mobile 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	
		Subtotal	
		TOTAL HOURS	

MATERIALS USED TODAY



Quantity	Description
	SAFETY MTG:
①	EMPLOYEE RESPONSIBILITIES ORIENTATION
②	ACCIDENT/SPILL REPORTING PROCEDURES

TIME OF ACTIVITY BY ITEM #

[illegible]

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

DRILL 12 1/4 BIT: FROM /- 2013' B.P.L TO /- 2019' B.P.L
MAKE CONNECTION. DRILL FROM /- 2019' B.P.L TO /- 2026' B.P.L
T.D.H. 12 1/4 BIT: T.I.H CORE BARREL.
VILL BACK SIDE 1 BAG SALT.

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	
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
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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	

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

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


Date	Time (hours)	Depth to Water (ft. bloc)	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	


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					<div>MHC</div> <div>ASQS LLC</div>			
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	
<div>ft. btoc: feet below top of casing</div> <div>TOC: Top of Casing</div> <div>ft. NAVD 88: North American Vertical Datum of 1988</div> <div>umhos/cm: micromhos per centimeter</div> <div>mg/L: milligrams per liter</div> <div>C: Celsius</div> <div>Note: TOC elevation is: 8.88 feet NAVD 88</div>								

Florida Power & Light Company Turkey Point Exploratory Well EW-1 Core No. 1 Lithologic Description			
Core	Depth (ft. bpl)		Observer's Description
	Date	From To	
8/14/2011	1,721.5	1,722.3	Dolomitic Limestone: 100%, pale yellowish brown (10YR 6/2) to grayish orange (10 YR 7/4), fine to medium grained, moderate induration, fossiliferous (dictyoconus, echinoid spines, calcite replaced shell), moderately to well sorted, moderate intergranular porosity, low permeability (micro), calcite replacement.
8/14/2011	1,722.3	1,722.7	Dolomitic Limestone: 100%, pale yellowish brown (10YR 6/2), fine crystalline (waxy), high induration, conchoidal breaks, non-fossiliferous, moderate secondary porosity with vugs <1 mm to 1 cm, low permeability (micro).
8/14/2011	1,722.7	1,723.0	Dolomitic Limestone: 100%, pale yellowish brown (10YR 6/2) to grayish orange (10 YR 7/4), fine to medium grained, moderate induration, fossiliferous (dictyoconus, echinoid spines), moderate to well sorted, moderate intergranular porosity, low permeability (micro), calcite replacement.
8/14/2011	1,723.0	1,723.3	Dolomitic Limestone: 100%, pale yellowish brown (10YR 6/2) to grayish orange (10 YR 7/4), fine to medium grained, moderate induration, fossiliferous (dictyoconus, echinoid spines), moderate to well sorted, moderate intergranular porosity, vugs 1 mm to 3 cm, moderate to high permeability (micro).
8/14/2011	1,723.3	1,723.6	Dolomitic Limestone (Rubble): 100%, very pale orange (10 YR /2), fine grained, moderate induration, fossiliferous (dictyoconus, echinoid spines), well sorted, low intergranular porosity, low permeability (micro).
8/14/2011	1,723.6	1,724.0	Dolomitic Limestone: 100%, pale yellowish brown (10YR 6/2) to medium gray (N5), fine grained, moderate induration, fossiliferous (molds), moderately to well sorted, low intergranular porosity, low permeability (micro), calcite replacement.
8/14/2011	1,724.0	1,724.3	Dolomitic Limestone: 100%, pale yellowish brown (10YR 6/2) to grayish orange (10 YR 7/4), fine to medium grained, moderate induration, fossiliferous (dictyoconus, echinoid spines), moderately to well sorted, moderate to high intergranular porosity, moderate permeability (micro), calcite replacement.
8/14/2011	1,724.3	1,724.8	Dolomitic Limestone: 100%, pale yellowish brown (10YR 6/2) to grayish orange (10 YR 7/4), fine grained, moderate to high induration, fossiliferous (dictyoconus, echinoid spines), moderately to well sorted, low to moderate intergranular porosity, vugs <1 mm to 3 mm, low permeability (micro), calcite replacement.
8/14/2011	1,724.8	1,734.5	No core recovery.

MHC			Florida Power & Light Company		
			Turkey Point		
			Exploratory Well EW-1		
			Deviation Survey Summary		
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			
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			
bpl = below pad level					

<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="background-color: #000080; color: white; padding: 2px 5px; font-weight: bold;">MHC</div> <div style="text-align: center;"> Florida Power & Light Company Turkey Point Exploratory Well EW-1 Lithologic Description </div> <div style="text-align: right;">  </div> </div>			
Date	Depth (ft. bpl)		Observer's Description
	From	To	
8/13/2011	1,650	1,660	Limestone: 100%, pale yellowish brown (10YR 6/2), very fine grained, moderate induration, fossiliferous (Dictyoconus, casts of benthic foraminifera, echinoids), well sorted, moderate to high intergranular porosity, slightly vuggy, moderate permeability.
8/13/2011	1,660	1,670	Limestone: 100%, pale yellowish brown (10YR 6/2), fine grained to very fine grained, moderately well indurated, highly fossiliferous (benthic foraminifera primarily Dictyoconus, abundant echinoids), moderately to well sorted, moderate to high intergranular porosity, moderately to highly vuggy, moderate to high permeability.
8/13/2011	1,670	1,680	Limestone: 100%, yellowish gray (5Y 7/2) to light olive gray (5Y 5/2), fine grained, poorly indurated, fossiliferous (benthic foraminifera, Dictyoconus and others), well sorted, moderate intergranular porosity, moderate permeability.
8/13/2011	1,680	1,690	Limestone: 100%, yellowish gray (5Y 7/2) to light olive gray (5Y 5/2), fine grained, poorly to moderately indurated, fossiliferous (benthic foraminifera, Dictyoconus and others), well sorted, moderate intergranular porosity, moderate permeability.
8/13/2011	1,690	1,700	Limestone: 100%, pale yellowish brown (10YR 6/2), fine grained to very fine grained, low induration, highly fossiliferous (benthic foraminifera primarily Dictyoconus, echinoids spines), moderately to well sorted, moderate to high intergranular porosity, moderate to high permeability.
8/13/2011	1,700	1,710	Limestone: 90%, pale yellowish brown (10YR 6/2) to very pale orange (10 YR /2), fine grained, moderate induration, fossiliferous (molds), moderately to well sorted, low intergranular porosity, low permeability (micro), calcite replacement. Dolomitic Limestone: 10%, pale yellowish brown (10YR 6/2) to light olive gray (5Y 6/1), very fine grained, high induration, non-fossiliferous, well sorted, low intergranular porosity, low permeability (micro).
8/13/2011	1,710	1,720	Dolomitic Limestone: 50%, yellowish gray (5YR 8/1) to very pale orange (10 YR /2), very fine grained, high induration, non-fossiliferous, well sorted, low intergranular porosity, low permeability (micro). Dolomitic Limestone: 50%, pale yellowish brown (10YR 6/2), very fine grained, low to moderate induration, fossiliferous with high degree decalcification, well sorted, low intergranular porosity, low permeability (micro).
8/15/2011	1,720	1,730	Dolomitic Limestone: 80%, pale yellowish brown (10YR 6/2) to grayish orange (10YR 7/4), fine grained, low to moderate induration, fossiliferous, few vugs, low to moderate intergranular porosity, low permeability; Dolomitic Limestone, 20%, pale yellowish brown (10YR 6/2), fine crystalline, highly indurated, few small vugs, low permeability.
8/15/2011	1,730	1,740	Dolomitic Limestone: 60%, pale yellowish brown (10YR 6/2) to grayish orange (10YR 7/4), fine grained, low to moderate induration, fossiliferous, few vugs, low to moderate intergranular porosity, low permeability; Dolomitic Limestone, 40%, pale yellowish brown (10YR 6/2), fine crystalline, highly indurated, few small vugs, low permeability.
8/15/2011	1,740	1,750	Dolomitic Limestone: pale yellowish brown (10YR 6/2) to light olive gray (5Y 6/1), very fine grained to crystalline, well indurated, slightly vuggy, low permeability.
8/15/2011	1,750	1,760	Dolomitic Limestone and Mudstone: Dolomitic Limestone, 90%, pale yellowish brown (10YR 6/2) to grayish orange (10YR 7/4) and very pale orange ((10YR 8/2), fine grained, low to moderate induration, fossiliferous, few vugs, low to moderate intergranular porosity, low permeability; Mudstone, 10%, dusky yellowish brown (10YR 2/2), silty, cohesive.
8/15/2011	1,760	1,770	Dolomitic Limestone: pale yellowish brown (10YR 6/2) to grayish orange (10YR 7/4), fine grained, low to moderate induration, fossiliferous, moderate intergranular porosity, low permeability; Mudstone, trace.

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Date	Depth (ft. bpl)		Observer's Description
	From	To	
8/15/2011	1,770	1,780	Dolomite and Dolomitic Limestone: Dolomite, 80%, dark yellowish brown (10YR 4/2) and pale yellowish brown (10YR 6/2), microcrystalline, few vugs; Dolomitic Limestone, 20%, pale yellowish brown (10YR 6/2) to grayish orange (10YR 7/4), fine grained, low to moderate induration, fossiliferous, moderate intergranular porosity, low permeability.
8/15/2011	1,780	1,790	Dolomitic Limestone: 40 %, pale yellowish orange (10 YR8/2), fine crystalline, high induration, trace quartz very fine quartz sand, low permeability. Dolomitic Limestone: 40%, pale yellowish brown (10YR 6/2), fine grained to very fine grained, low induration, highly fossiliferous (benthic foraminifera primarily Dictyoconus, echinoids spines), moderately to well sorted, moderate to high intergranular porosity, moderate to high permeability. Dolomite: 10%, light olive gray (5Y 6/1), fine crystalline, high induration, sparsely fossiliferous, low permeability.
8/15/2011	1,790	1,800	Dolomitic Limestone: 95%, pale yellowish brown (10YR 6/2), fine grained to very fine grained, low induration, highly fossiliferous (benthic foraminifera primarily Dictyoconus americanus, Dictyoconus cookei, echinoids spines), moderately to well sorted, moderate to high intergranular porosity, moderate to high permeability. Mudstone: 5%, dark gray (N3) to brownish gray (5YR 4/1), carbonaceous, very fine grained, low induration, non-fossiliferous, low permeability.
8/15/2011	1,800	1,810	Dolomitic Limestone: 60%, pale yellowish brown (10YR 6/2), fine grained to very fine grained, low induration, highly fossiliferous (benthic foraminifera primarily Dictyoconus, echinoids spines, shell fragments), moderately to well sorted, moderate to high intergranular porosity, moderate to high permeability. Mudstone: 30%, dark gray (N3) to brownish gray (5YR 4/1), carbonaceous, very fine grained, low induration, non-fossiliferous, low permeability; Dolomite: 10%, light olive gray (5Y 6/1), fine crystalline, high induration, sparsely fossiliferous, low permeability.
8/16/2011	1,810	1,820	Dolomite: 100%, pale yellowish orange (10YR 8/2), fine crystalline, high induration, low permeability.
8/16/2011	1,820	1,830	Dolomite: 100%, yellowish gray (5Y 8/1) to pale yellowish orange (10YR 8/2) to brownish gray (5YR 4/1), fine crystalline, high induration, low permeability.
8/16/2011	1,830	1,840	Dolomite and Mudstone: 90%, yellowish gray (5Y 8/1), and light olive gray (5YR 5/2) to brownish gray (5YR 4/1), fine crystalline, high induration, slightly vuggy, low permeability; Mudstone, 10%, dusky yellowish brown (10YR 2/2) to Black (N1), cohesive.
8/16/2011	1,840	1,850	Dolomite: 100%, pale yellowish brown (10YR 6/2), grayish orange (10YR 7/4) and dark yellowish brown (10YR 4/2), fine crystalline, well indurated, few vugs, low permeability.
8/16/2011	1,850	1,860	Dolomite: same as above.
8/16/2011	1,860	1,870	Dolomite: 100%, moderate yellowish brown (10YR 5/4) and dark yellowish brown (10YR 4/2), fine crystalline, well indurated, some slightly brittle, low permeability; Mudstone, trace.
8/16/2011	1,870	1,880	Dolomite: 100%, pale yellowish brown (10YR 6/2) and moderate yellowish brown (10YR 5/4), fine crystalline, moderately well indurated, low permeability; Mudstone, trace; Limestone, trace.
8/16/2011	1,880	1,890	Limestone (marl): 90%, very pale orange (10YR 8/2), very fine grain, low induration, low porosity, low permeability; Dolomite: 10%, pale yellowish brown (10YR 6/2) and moderate yellowish brown (10YR 5/4), fine crystalline, moderately well indurated, low permeability; Mudstone: dusky yellowish brown (10YR 2/2), trace
8/16/2011	1,890	1,900	Limestone (marl): 70%, very pale orange (10YR 8/2), very fine grain, low induration, low porosity, low permeability; Dolomitic Limestone: 30%, pale yellowish brown (10YR 6/2), fine grain, low to moderate induration, low permeability.
8/16/2011	1,900	1,910	Limestone: 100%, very pale orange (10YR 8/2), fine grain, low induration, low porosity, low permeability, bedding planes noticeable by darker banding.

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Date	Depth (ft. bpl)		Observer's Description
	From	To	
8/16/2011	1,910	1,920	Dolomitic Limestone: 90%, very pale orange (10YR 8/2), fine grain, low induration, low porosity, low permeability; Dolomite: 10%, dark gray (N3) to moderate yellowish brown (10YR 5/4), fine crystalline, well indurated, low permeability.
8/17/2011	1,920	1,930	Dolomitic Limestone: 50%, very pale orange (10YR 8/2), fine grain, low induration, low porosity, low permeability, bedding planes noticeable by darker banding. Dolomite: 50% dark gray (N3) to light olive gray (5Y 6/1), fine crystalline, well indurated, low permeability (micro).
8/17/2011	1,930	1,940	Dolomitic Limestone: 50%, very pale orange (10YR 8/2) to pale yellowish brown (10 YR 6/2), fine grain, low induration, low porosity, low permeability, bedding planes noticeable by darker banding. Dolomite: 50%, pale yellowish brown (10YR 6/2) to dark yellowish brown (10YR 4/2), fine crystalline, well indurated, low permeability (micro), bedding planes noticeable by darker banding.
8/17/2011	1,940	1,950	Dolomitic Limestone: 100%, pale yellowish brown (10YR 6/2), fine grain, low induration, fossiliferous (benthic foraminifera primarily Dictyoconus, echinoids spines, shell fragments), well sorted, low intergranular porosity, low permeability, black accessory mineral.
8/17/2011	1,950	1,960	Dolomitic Limestone: same as above.
8/17/2011	1,960	1,970	Dolomitic Limestone: same as above.
8/17/2011	1,970	1,980	Dolomite and Dolomitic Limestone: Dolomite, 60%, dark yellowish brown (10YR 4/2), sucrosic, vuggy; Dolomitic Limestone, 40%, pale yellowish brown (10YR 6/2), fine grain, low induration, fossiliferous (benthic foraminifera primarily Dictyoconus, shell fragments), well sorted, low intergranular porosity, low permeability.
8/17/2011	1,980	1,990	Dolomitic Limestone and Dolomite: Dolomitic Limestone, 80%, pale yellowish brown (10YR 6/2) to grayish orange (10YR 7/4), very fine grained, dark banding (lamination), low to moderate induration, low porosity, low permeability; Dolomite, 20%, dark yellowish brown (10YR 4/2) and grayish orange (10YR 7/4), crystalline, well indurated, some brittle.
8/17/2011	1,990	2,000	Dolomitic Limestone and Dolomite: Dolomite, 80%, dark yellowish brown (10YR 4/2) and grayish orange (10YR 7/4), crystalline, well indurated, some brittle. Dolomitic Limestone, 20%, pale yellowish brown (10YR 6/2) to grayish orange (10YR 7/4), very fine grained, dark banding (lamination), low to moderate induration, low porosity, low permeability.
8/17/2011	2,000	2,010	Dolomite, 100%, dark yellowish brown (10YR 4/2) and pale yellowish brown (10YR 6/2), fine crystalline, well indurated.
8/17/2011	2,010	2,020	Dolomite, 80%, dark yellowish brown (10YR 4/2) and pale yellowish brown (10YR 6/2), fine crystalline, well indurated; Dolomitic Limestone, 15%, pale yellowish brown (10YR 6/2) to grayish orange (10YR 7/4), very fine grained, dark banding (lamination), low to moderate induration, low porosity, low permeability; Clay: 5%, dark yellowish brown (10YR 2/2) to grayish black (N2), laminated, highly plastic, waxy, low permeability.

ft. bpl = feet 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
feet bpl = feet below pad level				