

Proposed Turkey Point Units 6 and 7
Docket Nos. 52-040 and 52-041
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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 #55 dated May 25, 2012

WEEKLY CONSTRUCTION SUMMARY



McNabb Hydrogeologic Consulting, Inc.

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

May 25, 2012

MHCDEP-12-0212

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 #55**

Dear Mr. May:

This is the fifty-fifth weekly construction summary for the above referenced project. The reporting period for this weekly construction summary began at 7:00 AM, Thursday, May 17, 2012 and ended at 7:00 AM, Thursday, May 24, 2012. Consultant and drilling contractor daily reports were prepared for this reporting period. Copies of the consultant and drilling contractor daily construction logs are attached.

During the previous reporting period the drilling contractor drilled the DZMW-1 pilot hole over the interval from 1,176 feet below pad level (bpl) to 1,905 feet bpl and conditioned the pilot hole in preparation for geophysical logging. There were no activities at EW-1 during the previous reporting period.

During this reporting period the drilling contractor completed conditioning the pilot hole, performed geophysical logging, performed an off-bottom single packer test over the interval from 1,860 to 1,905 feet bpl, and performed a straddle packer test over the interval from 1,288 to 1,317 feet bpl. Logs conducted include caliper, gamma ray, spontaneous potential, dual induction, borehole compensated sonic, flowmeter, fluid conductivity, and temperature. All logs were performed under static conditions. The flowmeter, fluid conductivity and temperature logs were also performed under dynamic conditions. Copies of the geophysical logs are attached. A water sample was collected at the end of the pumping portion of each packer test. The laboratory reports for the packer test water samples are attached. DZMW-1 was killed with barite during the reporting period. A daily kill material log sheet is attached. Laboratory results for the pilot hole water samples collected during the previous reporting period are attached. There were no activities at EW-1 during this reporting period.

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

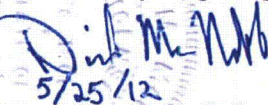
During the next reporting period, it is anticipated that the drilling contractor will backplug the DZMW-1 pilot hole with gravel (through proposed monitor zones) and cement. They will then begin reaming the backplugged hole. It is anticipated that the drilling contractor will refine their plan for establishing a tight seal at the packer in the base of EW-1 during the next reporting period.

In addition, sampling of the pad monitor wells around EW-1 and DZMW-1 began on April 21, 2011 and March 20, 2012, respectively, and has been taking place on a weekly basis since the initial samplings. The EW-1 pad monitor wells were most recently sampled on May 24, 2012. The DZMW-1 pad monitor wells were most recently sampled on May 25, 2012. The most recent set of EW-1 pad monitoring well sample results available are for samples collected on May 17, 2012. The most recent set of DZMW-1 pad monitoring well sample results available are for samples collected on May 18, 2012. Copies of the EW-1 and DZMW-1 pad monitor well water quality data summary sheets are attached.

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

Sincerely,

McNabb Hydrogeologic Consulting, Inc.



5/25/12

David McNabb, P.G.

Attachments: Consultant Daily Construction Log
Layne Christensen Company-Drilling Shift Report
EW-1 Pad Monitor Well Water Quality Data Summary Sheets
DZMW-1 Pad Monitor Well Water Quality Data Summary Sheets
DZMW-1 Packer Test Sample Laboratory Reports
DZMW-1 Pilot Hole Water Sample Laboratory Reports
DZMW-1 Daily Kill Material Log
DZMW-1 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



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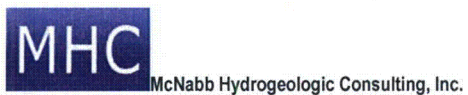
Daily Construction Log

Date: May 17, 2012
Project: FPL Turkey Point EW
Contractor: Layne Christensen Company
Starting Depth: 1,905 feet bpl
Weather Day: Cloudy, Rain, Warm
Weather Night: Cloudy, Warm
Activity: Geophysical Logging

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

CONSTRUCTION ACTIVITIES

- 0500 Yesterday, the drilling contractor performed a wiper trip on the DZMW-1 pilot hole and cleaned out the mud pit in preparation for performing geophysical logging. The drilling contractor is currently waiting on the arrival of the geophysical logging truck for logging the pilot hole from 1,102 feet to 1,900 feet below pad level (bpl).
- 0550 The geophysical logging truck is on site and the drilling contractor is beginning to set up for logging DZMW-1.
- 0800 The drilling contractor continues to prepare for geophysical logging.
- 0900 The drilling contractor is preparing to kill the well with barite and trip out the drill pipe from the well.
- 0945 The laboratory technician from Florida Spectrum Environmental Services, Inc. is on site to sample the four pad monitoring wells for EW-1.
- 1030 The drilling contractor continues to prepare for geophysical logging.
- 1130 The drilling contractor continues to prepare for geophysical logging. The drilling contractor killed the well with barite.
- 1200 The drilling contractor begins tripping in drill pipe to a depth of 1,100 feet bpl.
- 1300 The drilling contractor completed tripping in the drill pipe to 1,100 feet bpl.
- 1308 The drilling contractor began geophysical logging. The geophysical logs scheduled to be performed are static caliper, gamma ray, dual induction, spontaneous potential, sonic, temperature, fluid conductivity, and flowmeter logs and dynamic temperature, fluid conductivity, and flow meter logs. Also, a log-derived TDS curve will be prepared.
- 1410 The drilling contractor has completed the caliper log.
- 1530 The drilling contractor has completed the static gamma ray, temperature, and fluid conductivity logs.
- 1715 The drilling contractor has completed the dual induction and spontaneous potential logs.
- 1855 The drilling contractor has completed the sonic log.
- 1940 The drilling contractor has completed the static flowmeter log.
- 1950 The drilling contractor is preparing for dynamic logging.
- 2100 The drilling contractor is pumping the well at a rate of approximately 300 gpm and has started running the dynamic flow meter log.
- 2120 The contractor has completed the dynamic flowmeter log.



- 2145 The drilling contractor has completed running the dynamic temperature and fluid conductivity logs while pumping the well at a rate of approximately 300 gpm.
- 2300 The geophysical logger is preparing field copies of the logs.
- 2400 The field copies of the geophysical logs have been received.



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Daily Construction Log

Date: May 18, 2012
Project: FPL Turkey Point EW
Contractor: Layne Christensen Company
Starting Depth: 1,905 feet bpl
Weather Day: Cloudy, Warm
Weather Night: Cloudy, Rain, Warm
Activity: DZMW-1 Packer Testing Preparation

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

CONSTRUCTION ACTIVITIES

- 0800 Yesterday, the drilling contractor performed geophysical logging on the DZMW-1 pilot hole. The drilling contractor is currently preparing to perform a single, open-ended packer test over the interval from 1,860 feet below pad level (bpl) to 1,905 feet bpl.
- 0900 The drilling contractor is assembling the packer and drill pipe to install the packer to a depth of 1,860 feet bpl.
- 1000 The drilling contractor continues to assemble the packer.
- 1100 The laboratory technician from Florida Spectrum Environmental Services, Inc. is on site to sample the four pad monitoring wells for DZMW-1.
- 1130 The drilling contractor is tripping in the packer assembly.
- 1400 The drilling contractor continues to trip in the packer assembly.
- 1500 The drilling contractor continues to trip in the packer assembly.
- 1700 The drilling contractor continues to trip in the packer assembly.
- 1840 The drilling contractor completed tripping in the packer to the total depth of 1,860 feet bpl and has started to kill the well.
- 1940 The well has been killed.
- 2020 The drilling contractor has set up the data logger and is preparing to inflate the packer.
- 2100 The drilling contractor is inflating the packer.
- 2130 The drilling contractor has inflated the packer and is preparing to begin conditioning the test interval (1,860 to 1,905 feet bpl).
- 2215 The drilling contractor has begun conditioning the packer test interval.
- 2230 The air compressor has stopped working and must be repaired prior to moving forward with packer testing.
- 2300 The drilling contractor has called for an electrician to repair the air compressor. The electrician is due on site tomorrow morning.



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Daily Construction Log

Date: May 19, 2012	FDEP UIC Permit #: 0293962-001-UC
Project: FPL Turkey Point EW	Well No.: DZMW-1
Contractor: Layne Christensen Company	Bit Diameter: NA
Starting Depth: 1,905 feet bpl	Ending Depth: 1,905 feet bpl
Weather Day: Cloudy, Warm	Recorded By: Marty Clasen
Weather Night: Cloudy, Rainy, Warm	
Activity: DZMW-1 Packer Testing	

CONSTRUCTION ACTIVITIES

- 0730 Yesterday, the drilling contractor installed a single, open-ended inflatable packer at a depth of 1,860 feet below pad level (bpl) in order to test the bottom of the pilot hole over the interval from 1,860 feet to 1,905 feet bpl. While conditioning the test interval, the air compressor malfunctioned. An electrician was called to repair the air compressor. The drilling contractor is waiting on the arrival of the electrician to repair the air compressor and resume conditioning the test interval.
- 0830 The drilling contractor's electrician has arrived on site to repair the air compressor.
- 0945 The air compressor has been repaired and the drilling contractor has resumed conditioning the test interval (1,860 to 1,905 feet bpl).
- 1045 The drilling contractor continues to condition the packer test interval.
- 1230 The drilling contractor continues to condition the packer test interval.
- 1330 The drilling contractor continues to condition the packer test interval.
- 1430 The drilling contractor continues to condition the packer test interval.
- 1515 The drilling contractor has completed conditioning the packer test interval.
- 1645 The drilling contractor is installing the submersible pump and water level probe inside the work pipe.
- 1800 The drilling contractor conducted a preliminary test to establish a pumping rate. A pumping rate of approximately 33 gpm was established with a drawdown of 79 feet.
- 1915 The drilling contractor began collecting two hours of background water level data.
- 2115 The drilling contractor started the pumping portion of a packer test over the interval from 1,860 to 1,905 feet bpl. The initial pumping rate was measured at 34 gpm.
- 0115 The pumping portion of the test was stopped and a two hour recovery portion was started. A laboratory water quality sample was collected at the end of the test for TDS, chloride, sulfate, conductivity, TKN and ammonia analysis.
- 0330 The drilling contractor completed the recovery portion of the packer test and downloaded the test data.



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Daily Construction Log

Date: May 20, 2012
Project: FPL Turkey Point EW
Contractor: Layne Christensen Company
Starting Depth: 1,905 feet bpl
Weather Day: Cloudy, Warm
Weather Night: Cloudy, Rainy, Warm
Activity: DZMW-1 Packer Testing Preparation

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

CONSTRUCTION ACTIVITIES

- 1000 Yesterday, the drilling contractor performed a single, open-ended packer test on the interval from 1,860 to 1,905 feet below pad level (bpl) of DZMW-1. The drilling contractor is currently tripping the packer out of the well.
- 1200 The drilling contractor continues tripping out of the pilot hole with the single packer assembly.
- 1400 The drilling contractor continues to trip out of the pilot hole with the single packer assembly.
- 1445 The drilling contractor has completed tripping out of the pilot hole with the single packer assembly.
- 1500 The drilling contractor is preparing to assemble the straddle packer assembly.
- 0230 The drilling contractor has installed the straddle packer assembly to perform a straddle packer test over the interval from 1,288 feet to 1,317 feet bpl. The packers have been inflated to 450 psi. The drilling contractor is preparing to begin conditioning the test interval.
- 0310 The drilling contractor has started conditioning the test interval.
- 0440 The drilling contractor has completed conditioning the packer test interval.
- 0600 The drilling contractor is preparing the mud pit for the packer test.
- 0700 The drilling contractor continues to prepare the mud pit for packer testing.



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Daily Construction Log

Date: May 21, 2012
Project: FPL Turkey Point EW
Contractor: Layne Christensen Company
Starting Depth: 1,905 feet bpl
Weather Day: Cloudy, Warm
Weather Night: NA
Activity: DZMW-1 Packer Test Preparation and EW-1 Containment Pad Construction

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

CONSTRUCTION ACTIVITIES

- 0700 Yesterday, the drilling contractor installed straddle packers in preparation for testing the interval from 1,288 feet to 1,317 feet below pad level (bpl) at DZMW-1. The test interval was also conditioned yesterday. The drilling contractor is currently preparing to perform a packer test on the test interval.
- 0815 The drilling contractor is installing a 5 horsepower submersible pump and water level transducer inside the six-inch drill pipe.
- 0900 The transducer has been installed inside the work pipe to a depth of approximately 172 feet bpl and the transducer is not responding. The contractor is contacting In Situ, Inc. (manufacture) technical support.
- 1030 The drilling contractor continues working with In Situ technical support.
- 1100 The drilling contractor begins to trip out of the drill pipe with the pump and transducer to inspect the transducer probe.
- 1130 The transducer is on the rig floor and the drilling contractor is inspecting the transducer probe for damage. The probe appears to be undamaged.
- 1300 The drilling contractor is unable to make the transducer probe work properly. A new transducer is being shipped to the site for tomorrow morning. The drilling contractor will construct the temporary containment pad at EW-1, continue to clean cuttings out the mud pit, and perform general site maintenance.
- 1500 The drilling contractor continues the construction of the temporary containment pad for EW-1 and performing general site maintenance.
- 1715 The drilling contractor continues the construction of the temporary containment pad for EW-1 and performing general site maintenance.



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Daily Construction Log

Date: May 22, 2012
Project: FPL Turkey Point EW
Contractor: Layne Christensen Company
Starting Depth: 1,905 feet bpl
Weather Day: Cloudy, Rain, Warm
Weather Night: NA
Activity: DZMW-1 Packer Testing and EW-1 Containment Pad Construction

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

CONSTRUCTION ACTIVITIES

- 0800 Yesterday, the transducer probe to be used for data collection for DZMW-1 packer testing the interval from 1,288 to 1,317 feet below pad level (bpl) malfunctioned. The drilling contractor also began constructing the temporary containment pad around EW-1 yesterday. The drilling contractor is currently working on the temporary EW-1 containment pad waiting on the arrival of the replacement transducer to move forward with conducting a straddle packer test on interval from 1,288 to 1,317 feet bpl.
- 1000 The drilling contractor continues construction of the temporary containment pad and performing general site maintenance while waiting on the arrival of the replacement transducer.
- 1150 The replacement transducer is delivered to the site.
- 1225 The drilling contractor has successfully tested the transducer at the surface and begins to trip inside the work pipe with the pump and transducer.
- 1325 The drilling contractor begins a preliminary pump test to establish a pumping rate. The pump has been installed to a depth of 181.7 feet bpl and the transducer has been installed to a depth of 171.7 feet bpl or 180.9 feet below the measuring port.
- 1335 The drilling contractor stops the pump and begins collecting background water level data. The pumping rate for the packer test is established at rate of 80 gallons per minute (gpm).
- 1535 Begin the pumping portion of the packer test. The static water level is 206.8 feet above the transducer or 35.1 feet above pad level. The initial pumping rate is 80 gpm.
- 1630 The pumping rate continues at 80 gpm. The drawdown is approximately 10.5 feet.
- 1730 The pumping rate continues at 80 gpm. The drawdown is approximately 10.5 feet.
- 1830 The pumping rate continues at 80 gpm. The drawdown is approximately 10.5 feet.
- 1940 Water quality samples were collected to be analyzed for chloride, total dissolved solids, conductivity, sulfate, total kjeldahl nitrogen, and ammonia. The drilling contractor stops the pumping portion of the packer test and begins recovery data collection.
- 2140 The recovery portion of the packer test is complete.
- 2205 The drilling contractor begins to bleed-off the packers.
- 2345 The drilling contractor continues to bleed-off the packers. Once the packers are bled off the drilling contractor will begin to trip out of the pilot hole with the straddle packer assembly and the drilling crew will be off site once completed. The drilling contractor



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will be conducting safety meetings for the next 2 days and there will be no construction on site for the next 2 days.



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Daily Construction Log

Date: May 23, 2012	FDEP UIC Permit #: 0293962-001-UC
Project: FPL Turkey Point EW	Well No.: DZMW-1 and EW-1
Contractor: Layne Christensen Company	Bit Diameter: NA
Starting Depth: 1,905 feet bpl	Ending Depth: 1,905 feet bpl
Weather Day: NA	Recorded By: David McNabb
Weather Night: NA	
Activity: Safety Meetings – No Construction Activity	

CONSTRUCTION ACTIVITIES

Yesterday the drilling contractor performed a straddle packer test on the interval from 1,288 to 1,377 feet below pad level on DZMW-1. They killed the well during the night shift to allow the straddle packers to be removed from the well. The drilling contractor spent the day conducting safety meetings. There were no construction activities on site.



LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

Proposed Turkey Point Units 6 and 7
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DATE 5-17-12
THUR DAYS.

JOB # 11771-1405-10000

CLIENT FDL

JOB SITE NAME mw-1

PERSONNEL EMPLOYED TODAY

EQUIPMENT DEPLOYED TODAY

JOB SITE LOCATION T.P.

DAILY ACCOUNTING OF ACTIVITIES BY CREW A

Crew Assignment	Employee Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
Driller	BOSIT GULONOV	45	12		12
AP	ANDREY POPOV	45	12		12
V.M	VICTOR MOISYEV	45	12		12

Description	Unit #	Status
EDW-200	38605	w/k
1989 Dump	18000	S/B
TRUCK		
CEMENT	28145	
UNIT		S/B
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	Drill Mob/Demob	
3	1150	Job Preparation	
4	1120	Safety Meeting	
5	0005	Training - Overhead	
6	0006	Shop - Overhead	
7	0007	Maintenance - Overhead	
8	1130	Training - Job Chargeable	
9	1100	Take Clean up	
10	1135	Install Sound Walls	
11	1140	Install Decon Pad	
12	1145	Install Surface Casing	
13	1150	Install Roadway & Drill Pad	
14	1205	Test Hole Drilling	
15	1210	Geophysical Logging & Other Logging	
16	1215	Liquifer Zone Testing	
17	1220	Borehole Abandonment	
18	1305	Production Well Installation	
19	1310	Install Conductor Pipe	
20	1330	Drill Bit at Hole	
21	1320	Geophysical Logging & Other Logging	
22	1325	Liquifer Zone Testing	
23	1330	Borehole Abandonment/Cement 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	1910	Shop	
39	1915	Administration	
40	1950	Other Activities Standby	
41	1960	Fishing for Lost/Broken Tooling	
42	1965	Change Order Activities	
43	8800	Equipment Repairs	
44	9017	Damages	
45	9020	Job Superintendent	
		Lunch	
TOTAL HOURS			

MATERIALS USED TODAY

Quantity	Description
	SAFETY MTG.
	LOGGING
	DPE: H.I.R.A. LOAD & SAFETY!
	HAND SAFETY: PINCH POINT!

TIME OF ACTIVITY BY ITEM #

From	To	Circle One	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	
		AM PM	
		AM PM	
		AM PM	

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

MIX KILL: KILL HOLE 2'-6" KILL: T.I.H WITH BELL SUB
@ 12 STD - D.P. 1080' BPL: HELPING ELLIS:
LOGGING:

5-17-12

Client's Signature

PAYROLL

Date

Supervisor's Signature

Date



Layne CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT FPLProposed Turkey Point Units 6 and 7
Docket Nos. 52-040 and 52-041
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PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
Driller	George Haga	45	12		12
SW	Juan Nieto	45	12		12
PV	Paul Vaughn	45	12		12
SA	Josh Ashley	45	12		12

EQUIPMENT DEPLOYED TODAY

Description	Unit #	Status
FDW 200		4/12
1989 man		5/12
dump truck		
Cement truck		5/12
Working	WK	Mobilization
Standby	SB	Demobilization
Down in Shop	DS	Available in Yard
Down on Site	DN	Available on Job

DATE 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 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	Wellbore Watching	
31	14050	Well Development Air Lift and Swab	
32	14100	Disposal of Flues & Cuttings	
33	14150	Furnish & Install Test Pump and Discharge	
34	14200	Development Pumping	
35	14250	Test Pumping	
36	14300	Injection and Chemoaction	
37	19050	Offsite Activities Mob/Demob	
38	19100	Shop	
39	19150	Administration	
40	19200	Other Activities Standby	
41	19600	Fishing for Lost/Broken Tooling	
42	19650	Change Order Activities	
43	88000	Equipment Repairs	
44	90170	Demob	
45	90200	Job Superintendent	
		Lunch	
TOTAL HOURS			

MATERIALS USED TODAY

Quantity	Description
	Safety meeting
	① Winch line Safety
	② House keeping
	Safety topic
	HIRA, PPE, Loader Safety
	Pinch points, tripping ppe. Hand Safety

TIME OF ACTIVITY BY ITEM

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

Logg bring well blue conduct Flow logs.
Kill drill pipe w/ 4 inches offset Trip 11 stands
out on hole leave crew stand with six inch
Valve close in well. Repair 4 inch line from
Sump. Pressure both pack up @ 450 PSI hold for 20 minutes.

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT

FPL

Proposed Turkey Point Units 6 and 7
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Abstract

5-18-17

105

4721 - 1405-10000

JOB SITE NAME

764-1

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FAI DAYS

JOB SITE LOCATION

T. D.

DATE ACCOUNTING OF ACQUISITION OF ITEMS

PERSONNEL EMPLOYERS TO HAN

EQUIPMENT DEPLOYED TODAY

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
Driller	BOSIT GULLAMOV	45	12		12
A.P	ANDREY POPOV	45	12		12
V.M	VICTOR MOISYEV	45	12		12
V.I	VLAD ISKIMOV	45	12		12

MATERIALS USED TODAY

Quantity	Description
	SAFETY MTC:
	PACKER TEST:
	PPE: H.I. RA: - HAND SAFETY:
	LOADER SAFETY: PINCH POINT:


TIME OF ACTIVITY BY ITEM

[illegible]

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

T. I. H. PACKER. @. 1860' C/L; KILL HOLE 4' KILL.
START PRESS PACKER:

Item #	Cost Code	Labor Activity	Hours
1	11000	Shut Down/Start Job	
2	11100	Grade Mark/Divert	
3	11120	Job Preparation	
4	11130	Safety Meeting	
5	1000	Training - Northeast	
6	1000	Weld - Certified	
7	10017	Maintenance - Groundwater	
8	11133	Training - Job Organization	
9	11100	Site Cleanup	
10	11131	Install Screen Walls	
11	11400	Install Screen Wall	
12	11450	Install Surface Casing	
13	11500	Install Roadway & Drill Pad	
14	12000	Test Hole Drilling	
15	12300	Geophysical Logging & Other Testing	
16	12301	Acquire Core-Testing	
17	12200	Horizontal Airwork/Install	
18	12350	Production Well Installation	
19	11100	Install Conductor Pipe	
20	11150	Test Pilot Hole	
21	12300	Geophysical Logging & Other Testing	
22	12250	Acquire Core-Testing	
23	12350	Horizontal Airwork/Install	
24	12000	Planning	
25	12000	Under Recovery	
26	12050	Install Casing	
27	12000	Install Screen	
28	12050	Gravel Pack The Well	
29	12000	Install Screen Seal	
30	12000	Water Well/Well	
31	10000	Well Development Air Lift and Swab	
32	10100	Disposal of Fluids & Cuttings	
33	14110	Furnish & Install Test Pump and Discharge	
34	14100	Demographic Pumping	
35	14150	Test Pumping	
36	14100	Discharge and Distribution	
37	10000	Drill Other Activities (Wells/Screen)	
38	10100	Wells	
39	10150	Acquire Core/Testing	
40	10100	Other Activities (Screen)	
41	10000	Hitting for Lost/Broken Tooling	
42	10150	Change Other Activities	
43	10000	Equipment Rental	
44	10000	Equipment	
45	10000	Job Superintendence	
		Launch	
		TOTAL HOURS	


Jeffrey J. Spence
ccr@spence.com

5-18-72

• **St. Ignace's** 25 Ave. de la Paix

PAYROLL

□

[Signature]
Secretary's Signature

5/18/20



LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT FPLProposed Turkey Point Units 6 and 7
Docket Nos. 52-040 and 52-041
L-2012-255 Enclosure 1 Page 16 of 107DATE 5/28/12
Friday NightJOB # 11771.1405.10000
JOB SITE LOCATION Turkey PointJOB SITE NAME MW1

PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
Driller	George Haga	45	12		12
JN	Juan Nieto	45	12		12
FW	Paul Vaughn	45	12		12
JA	Joshua Ashley	45	12		12

EQUIPMENT DEPLOYED TODAY

Description	Unit #	Status
FDW 200		Wk
1989 Mac		S/O
Dump truck		
Cement mixer		S/O

DAILY ACCOUNTING OF ACTIVITIES BY ITEM

Item #	Event Code	Laber Activity	Hours
1	10000	Start Operating Job	
2	11100	Locate Hole/Drillhole	
3	11150	Job Preparation	
4	11200	Safety Meeting	
5	10050	Training - Overview	
6	10060	Stop - Drillhole	
7	10080	Maintenance - Drillhole	
8	10250	Training - Job Preparation	
9	10300	Site Check up	
10	10350	Install/Extend Hole	
11	10400	Install/Extend Hole	
12	10450	Install Surface Casing	
13	10500	Install Roadway & Drill Pod	
14	10550	Test Hole Drilling	
15	10600	Geophysical Logging & Other Testing	
16	10650	Acoustic Zone Testing	
17	10700	Barrel/Abandonment	
18	10750	Production Well Installation	
19	10800	Install Completion Pipe	
20	10850	Drill Fluid Hole	
21	10900	Geophysical Logging & Other Testing	
22	10950	Acoustic Zone Testing	
23	11000	Barrel/Abandonment/Complete Plug	
24	11050	Seismic	
25	11100	Under Drilling	
26	11150	Install Casing	
27	11200	Install Borehole	
28	11250	Gravel Pack The Well	
29	11300	Install Annular Seal	
30	11350	Water Washing	
31	11400	Well Development Air Lift and Swab	
32	11450	Disposal of Fluids & Cuttings	
33	11500	Furnish & Install Test Pump and Discharge	
34	11550	Development Pumping	
35	11600	Test Pumping	
36	11650	Drillhole and Completion	
37	11700	Drillhole and Completion	
38	11750	Drill	
39	11800	Drillhole and Completion	
40	11850	Drillhole and Completion	
41	11900	Drillhole and Completion	
42	11950	Drillhole and Completion	
43	12000	Drillhole and Completion	
44	12050	Drillhole and Completion	
45	12100	Drillhole and Completion	
46	12150	Drillhole and Completion	
47	12200	Drillhole and Completion	
48	12250	Drillhole and Completion	
49	12300	Drillhole and Completion	
50	12350	Drillhole and Completion	
51	12400	Drillhole and Completion	
52	12450	Drillhole and Completion	
53	12500	Drillhole and Completion	
54	12550	Drillhole and Completion	
55	12600	Drillhole and Completion	
56	12650	Drillhole and Completion	
57	12700	Drillhole and Completion	
58	12750	Drillhole and Completion	
59	12800	Drillhole and Completion	
60	12850	Drillhole and Completion	
61	12900	Drillhole and Completion	
62	12950	Drillhole and Completion	
63	13000	Drillhole and Completion	
64	13050	Drillhole and Completion	
65	13100	Drillhole and Completion	
66	13150	Drillhole and Completion	
67	13200	Drillhole and Completion	
68	13250	Drillhole and Completion	
69	13300	Drillhole and Completion	
70	13350	Drillhole and Completion	
71	13400	Drillhole and Completion	
72	13450	Drillhole and Completion	
73	13500	Drillhole and Completion	
74	13550	Drillhole and Completion	
75	13600	Drillhole and Completion	
76	13650	Drillhole and Completion	
77	13700	Drillhole and Completion	
78	13750	Drillhole and Completion	
79	13800	Drillhole and Completion	
80	13850	Drillhole and Completion	
81	13900	Drillhole and Completion	
82	13950	Drillhole and Completion	
83	14000	Drillhole and Completion	
84	14050	Drillhole and Completion	
85	14100	Drillhole and Completion	
86	14150	Drillhole and Completion	
87	14200	Drillhole and Completion	
88	14250	Drillhole and Completion	
89	14300	Drillhole and Completion	
90	14350	Drillhole and Completion	
91	14400	Drillhole and Completion	
92	14450	Drillhole and Completion	
93	14500	Drillhole and Completion	
94	14550	Drillhole and Completion	
95	14600	Drillhole and Completion	
96	14650	Drillhole and Completion	
97	14700	Drillhole and Completion	
98	14750	Drillhole and Completion	
99	14800	Drillhole and Completion	
100	14850	Drillhole and Completion	
101	14900	Drillhole and Completion	
102	14950	Drillhole and Completion	
103	15000	Drillhole and Completion	
104	15050	Drillhole and Completion	
105	15100	Drillhole and Completion	
106	15150	Drillhole and Completion	
107	15200	Drillhole and Completion	
108	15250	Drillhole and Completion	
109	15300	Drillhole and Completion	
110	15350	Drillhole and Completion	
111	15400	Drillhole and Completion	
112	15450	Drillhole and Completion	
113	15500	Drillhole and Completion	
114	15550	Drillhole and Completion	
115	15600	Drillhole and Completion	
116	15650	Drillhole and Completion	
117	15700	Drillhole and Completion	
118	15750	Drillhole and Completion	
119	15800	Drillhole and Completion	
120	15850	Drillhole and Completion	
121	15900	Drillhole and Completion	
122	15950	Drillhole and Completion	
123	16000	Drillhole and Completion	
124	16050	Drillhole and Completion	
125	16100	Drillhole and Completion	
126	16150	Drillhole and Completion	
127	16200	Drillhole and Completion	
128	16250	Drillhole and Completion	
129	16300	Drillhole and Completion	
130	16350	Drillhole and Completion	
131	16400	Drillhole and Completion	
132	16450	Drillhole and Completion	
133	16500	Drillhole and Completion	
134	16550	Drillhole and Completion	
135	16600	Drillhole and Completion	
136	16650	Drillhole and Completion	
137	16700	Drillhole and Completion	
138	16750	Drillhole and Completion	
139	16800	Drillhole and Completion	
140	16850	Drillhole and Completion	
141	16900	Drillhole and Completion	
142	16950	Drillhole and Completion	
143	17000	Drillhole and Completion	
144	17050	Drillhole and Completion	
145	17100	Drillhole and Completion	
146	17150	Drillhole and Completion	
147	17200	Drillhole and Completion	
148	17250	Drillhole and Completion	
149	17300	Drillhole and Completion	
150	17350	Drillhole and Completion	
151	17400	Drillhole and Completion	
152	17450	Drillhole and Completion	
153	17500	Drillhole and Completion	
154	17550	Drillhole and Completion	
155	17600	Drillhole and Completion	
156	17650	Drillhole and Completion	
157	17700	Drillhole and Completion	
158	17750	Drillhole and Completion	
159	17800	Drillhole and Completion	
160	17850	Drillhole and Completion	
161	17900	Drillhole and Completion	
162	17950	Drillhole and Completion	
163	18000	Drillhole and Completion	
164	18050	Drillhole and Completion	
165	18100	Drillhole and Completion	
166	18150	Drillhole and Completion	
167	18200	Drillhole and Completion	
168	18250	Drillhole and Completion	
169	18300	Drillhole and Completion	
170	18350	Drillhole and Completion	
171	18400	Drillhole and Completion	
172	18450	Drillhole and Completion	
173	18500	Drillhole and Completion	
174	18550	Drillhole and Completion	
175	18600	Drillhole and Completion	
176	18650	Drillhole and Completion	
177	18700	Drillhole and Completion	
178	18750	Drillhole and Completion	
179	18800	Drillhole and Completion	
180	18850	Drillhole and Completion	
181	18900	Drillhole and Completion	
182	18950	Drillhole and Completion	
183	19000	Drillhole and Completion	
184	19050	Drillhole and Completion	
185	19100	Drillhole and Completion	
186	19150	Drillhole and Completion	
187	19200	Drillhole and Completion	
188	19250	Drillhole and Completion	
189	19300	Drillhole and Completion	
190	19350	Drillhole and Completion	
191	19400	Drillhole and Completion	
192	19450	Drillhole and Completion	
193	19500	Drillhole and Completion	
194	19550	Drillhole and Completion	
195	19600	Drillhole and Completion	
196	19650	Drillhole and Completion	
197	19700	Drillhole and Completion	
198	19750	Drillhole and Completion	
199	19800	Drillhole and Completion	
200	19850	Drillhole and Completion	
201	19900	Drillhole and Completion	
202	19950	Drillhole and Completion	
203	20000	Drillhole and Completion	
204	20050	Drillhole and Completion	
205	20100	Drillhole and Completion	
206	20150	Drillhole and Completion	
207	20200	Drillhole and Completion	
208	20250	Drillhole and Completion	
209	20300	Drillhole and Completion	
210	20350	Drillhole and Completion	
211	20400	Drillhole and Completion	
212	20450	Drillhole and Completion	
213	20500	Drillhole and Completion	
214	20550	Drillhole and Completion	
215	20600	Drillhole and Completion	
216	20650	Drillhole and Completion	
217	20700	Drillhole and Completion	
218	20750	Drillhole and Completion	
219	20800	Drillhole and Completion	
220	20850	Drillhole and Completion	
221	20900	Drillhole and Completion	
222	20950	Drillhole and Completion	
223	21000	Drillhole and Completion	
224	21050	Drillhole and Completion	
225	21100	Drillhole and Completion	
226	21150	Drillhole and Completion	
227	21200	Drillhole and Completion	
228	21250	Drillhole and Completion	
229	21300	Drillhole and Completion	
230	21350	Drillhole and Completion	
231	21400	Drillhole and Completion	
232	21450	Drillhole and Completion	
233	21500	Drillhole and Completion	
234	21550	Drillhole and Completion	
235	21600	Drillhole and Completion	
236	21650	Drillhole and Completion	
237	21700	Drillhole and Completion	
238	21750	Drillhole and Completion	
239	21800	Drillhole and Completion	
240	21850	Drillhole and Completion	
241	21900	Drillhole and Completion	
242	21950	Drillhole and Completion	
243	22000	Drillhole and Completion	
244	22050	Drillhole and Completion	
245	22100	Drillhole and Completion	
246	22150	Drillhole and Completion	
247	22200	Drillhole and Completion	
248	22250	Drillhole and Completion	
249	22300	Drillhole and Completion	
250	22350	Drillhole and Completion	
251	22400	Drillhole and Completion	
252	22450	Drillhole and Completion	
253	22500	Drillhole and Completion	
254	22550	Drillhole and Completion	
255	22600	Drillhole and Completion	
256	22650	Drillhole and Completion	
257	22700	Drillhole and Completion	
258	22750	Drillhole and Completion	
259	22800	Drillhole and Completion	
260	22850	Drillhole and Completion	
261	22900	Drillhole and Completion	
262	22950	Drillhole and Completion	
263	23000	Drillhole and Completion	
264	23050	Drillhole and Completion	
265	23100	Drillhole and Completion	
266	23150	Drillhole and Completion	
267	23200	Drillhole and Completion	
268	23250	Drillhole and Completion	
269	23300	Drillhole and Completion	
270	23350	Drillhole and Completion	
271	23400	Drillhole and Completion	
272	23450	Drillhole and Completion	
273	23500	Drillhole and Completion	
274	23550	Drillhole and Completion	
275	23600	Drillhole and Completion	
276	23650	Drillhole and Completion	
277	23700	Drillhole and Completion	
278	23750	Drillhole and Completion	
279	23800	Drillhole and Completion	
280	23850	Drillhole and Completion	
281	23900	Drillhole and Completion	
282	23950	Drillhole and Completion	
283	24000	Drillhole and Completion	
284	24050	Drillhole and Completion	
285	24100	Drillhole and Completion	
286	24150	Drillhole and Completion	
287	24200	Drillhole and Completion	
288	24250	Drillhole and Completion	
289	24300	Drillhole and Completion	
290	24350	Drillhole and Completion	
291	24400	Drillhole and Completion	
292	24450	Drillhole and Completion	
293	24500	Drillhole and Completion	
294	24550	Drillhole and Completion	
295	24600	Drillhole and Completion	
296	24650	Drillhole and Completion	
297	24700	Drillhole and Completion	
298	24750	Drillhole and Completion	
299	24800	Drillhole and Completion	
300	24850	Drillhole and Completion	
301	24900	Drillhole and Completion	
302	24950	Drillhole and Completion	
303	25000	Drillhole and Completion	
304	25050	Drillhole and Completion	
305	25100	Drillhole and Completion	
306	25150	Drillhole and Completion	
307	25200	Drillhole and Completion	
308	25250	Drillhole and Completion	
309	25300	Drillhole and Completion	
310	25350	Drillhole and Completion	
311	25400	Drillhole and Completion	
312	25450	Drillhole and Completion	

5/19/11
Date



LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT: FPL

Proposed Turkey Point Units 6 and 7
Docket Nos. 52-040 and 52-041
L-2012-255 Enclosure 1 Page 18 of 107

DATE: 5/19/12

Saturday Night Shift

Job # 11771.1405.10000

JOB SITE NAME MWI

JOB SITE LOCATION Turkey Point

PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee - Full Name	Per Diam? (X)	Onsite Hours	Offsite Hours	Total Hours
Driller	George Haga	45	12		12
Pr	Paul Vaughn	45	12		12
JN	Juan Nieto	45	12		12
JA	Joshua Ashley	45	12		12

EQUIPMENT DEPLOYED TODAY

Description	Unit #	Status
FDW 200	2860	WK
1989 Mac	18000	3/P
Dump truck		
Cementifer	25145	3/P
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-Drillings Job	
2	11200	Drill Bits/Drill Rods	
3	11200	Job Preparation	
4	11200	Job Meeting	
5	0000	Transport - Overhead	
6	0000	Shop - Overhead	
7	0000	Maintenance - Overhead	
8	11200	Training - Job Chargeable	
9	11000	Site Clean up	
10	11200	Mud all Second Well	
11	11000	Mud all Second Well	
12	11000	Mud all Second Well	
13	11000	Mud all Second Well	
14	10200	Test Hole Drilling	
15	21000	Geophysical Logging & Other Testing	
16	10100	Acoustic Zone Testing	
17	22000	Drillhole Measurement	
18	10200	Production Well Installation	
19	10100	Drillhole Completion Pipe	
20	20200	Well Plug Hole	
21	23000	Geophysical Logging & Other Testing	
22	10100	Acoustic Zone Testing	
23	10100	Drillhole Abandonment/Conent Plug	
24	10000	Drilling	
25	10400	Under Drilling	
26	10400	Drill Casing	
27	10500	Drill Screen	
28	10500	Drill Pack Test Well	
29	10600	Drill Annular Seal	
30	10600	Water Washing	
31	10600	Well Development Air Lift and Swab	
32	10100	Disposal of Fluids & Cuttings	
33	10100	Fluids & Infill Test Pump and Discharge	
34	10200	Development Pumping	
35	10200	Test Pumping	
36	24000	Drillhole and Completion	
37	10600	Drillhole and Completion	
38	10000	Drill	
39	10200	Drillhole and Completion	
40	10200	Drillhole and Completion	
41	10000	Drillhole and Completion	
42	10600	Drillhole and Completion	
43	00000	Drillhole and Completion	
44	00170	Drillhole and Completion	
45	00200	Drillhole and Completion	
		Drill	
		TOTAL HOURS	

2. Data



LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

Proposed Turkey Point Units 6 and 7
Docket Nos. 52-040 and 52-041
L-2012-255 Enclosure 1 Page 20 of 107

CLIENT

FPL

DATE

5/20/12

WELL

11771 / 455 / 10000

ISSUE NAME

MW-1

Sunday Night Shift

JOB SITE LOCATION

TP

PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
Driller	George Hagg	45	12		12
JW	Juan Nieto	45	12		12
PV	Paul Vang	45	12		12
SA	Josh Ashby	45	12		12

EQUIPMENT DEPLOYED TODAY

Description	Unit R	Status
FDW 200 28605 4/12		
1989 MAC 18000 5/10		
Dump truck		
Cementor 28145 9/3		
Working	WX	Mobilization MO
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

TIME	ITEM #	DESCRIPTION	REMARKS
1	10000	Start Drilling Job	
2	10100	Open Hole Drilling	
3	10150	Job Preparation	
4	10200	Quality Control	
5	10300	Training - Overhaul	
6	10350	Blow - Overhaul	
7	10400	Maintenance - Overhaul	
8	10450	Training - Job Chargeable	
9	10500	Site Clean up	
10	10550	Install Sand Matt	
11	10600	Install Drives Pail	
12	10650	Install Surface Covering	
13	10700	Install Roadway & Drill Pad	
14	10750	Test Hole Drilling	
15	10800	Geophysical Logging & Other Testing	
16	10850	Apparel Dress Fitting	
17	10900	Recovery Abandonment	
18	10950	Production Well Installation	
19	11000	Install Conductor Pipe	
20	11050	Explosion Hole	
21	11100	Geophysical Logging & Other Testing	
22	11150	Apparel Dress Fitting	
23	11200	Boilerhole Abandonment/Cement plugs	
24	11250	Recovery	
25	11300	Under Running	
26	11350	Install Casing	
27	11400	Install Screen	
28	11450	Install Pack The Well	
29	11500	Install Annular Seal	
30	11550	Slurry Watching	
31	11600	Well Development Air Lift and Swab	
32	11650	Disposal of Fluids & Cuttings	
33	11700	Furnish & Install Test Pump and Discharge	
34	11750	Development Pumping	
35	11800	Test Pumping	
36	11850	Clearance and Observation	
37	11900	Other Activities Miscellaneous	
38	11950	Blow	
39	12000	Administration	
40	12050	Other Activities Inventory	
41	12100	Training for Local Resident Training	
42	12150	Change Order Activities	
43	12200	Equipment Repairs	
44	12250	Shuttings	
45	12300	Job - Separation	
		Blank	
		TOTAL HOURS	

MATERIALS USED TODAY

Quantity	Description
	Safety Mats
	Running in Packer
	Good Communication
	Safety topics
	Tailoring in Drill pipe, running
	Packer hose, slips, trips & falls

TIME OF ACTIVITY BY ITEM

From	To	Circle One	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	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

Trip in (3) doubles, 20' pup, 5 pup, 1 Double
Caw stand. pressure up & set straddle packer
wait 30 minutes square up. start AIR developing
total weight bafa setting packer 68405 lbs. slurry pit
36" from top discharge through filtration system

George Hagg

5/20/12

Client's Signature

PAYROLL

Date

Signature

Signature

Date



LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

Proposed Turkey Point Units 6 and 7

Docket Nos. 52-040 and 52-041

L-2012-255 Enclosure 1 Page 21 of 107

CLIENT **FPL**DATE **5/21/12**
Mon. DaysJOB # **11771.1405.10000**JOB SITE NAME **Mw-1**JOB SITE LOCATION **Turkey Point**

PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
MR	Michael A. Ramirez	45	12		12
VI	Vlad Ishimov	45	12		12
BF	Bob Feetham	45	12		12
JM	James McDonnell	45	12		12

EQUIPMENT DEPLOYED TODAY

Description	Unit #	Status
FDW 200	28605	w/k
89 Mack Dump	18000	9/B
Cement Unit	28145	9/B

Working	WK	Mobilization	MB
Standby	SB	Demobilization	DM
Down in Shop	DS	Available in Yard	AY
Down on Site	DN	Available on Job	AV

DAILY ACCOUNTING OF ACTIVITIES BY ITEM

Item #	Cost Code	Labor Activity	Hours
1	10000	Short Duration Job	
2	11100	Onsite Mob/Demob	
3	11150	Job Preparation	
4	11200	Safety Meeting	
5	11205	Training - Overhead	
6	0005	Shop - Overhead	
7	0007	Maintenance - Overhead	
8	11250	Training - Job Chargeable	
9	11300	Waste Clean up	
10	11350	Install Sound Walls	
11	11400	Install Decon 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	Acoustic Zone Testing	
17	12200	Wardrobe Abandonment	
18	13050	Production Well Installation	
19	13100	Install Conductor Pipe	
20	13150	Blowout Preventer	
21	13200	Geophysical Logging & Other Testing	
22	13250	Acoustic Zone Testing	
23	13300	Wardrobe Abandonment/Completions	
24	13350	Roaming	
25	13400	Under Roaming	
26	13450	Install Casing	
27	13500	Install Screen	
28	13550	Install Pack the Well	
29	13600	Install Annular Seal	
30	13650	Water Well Drilling	
31	14050	Well Development Air Lift and Swab	
32	14100	Disposal of Fluids & Cuttings	
33	14150	Furnish & Install Test Pump and Discharge	
34	14200	Developmost Pumping	
35	14250	Test Pumping	
36	14300	Disinfection and Chlorination	
37	19050	121 Site Activities Mob/Demob	
38	19100	Shop	
39	19150	Administrative	
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 / keeping floor clear
	② proper work communication
	PPE, welder / torch safety, ladder safety
	Crush - pinch points, Hand signals, Hot weather
	Precautions.

TIME OF ACTIVITY BY ITEM

From	To	Code One	Item #
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
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		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

Trip in pump on 3 stands of Air line prep for packer test. Transducer/Hemmer probe malfunction. Trip out pump & 3 stands of air line, wait on orders. Continue to Help Welders. Pump off clean water to Gual. Checked probe wire for breaks.

M. Ramirez
Inspector's Signature

5/21/12
Date

Client's Signature

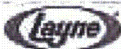
PAYROLL

Date

Supervisor's Signature

K. Ramirez
Supervisor's Signature

Date



LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT

FPL

Proposed Turkey Point Units 6 and 7
Docket Nos. 52-040 and 52-041
L-2012-255 Enclosure 1 Page 22 of 107

DATE

5-21-12

MON NIGHT

JOB #

1777-1405-10000

JOBSITE NAME

MW-1

JOBSITE LOCATION

T.P.

PERSONNEL EMPLOYED TODAY

EQUIPMENT DEPLOYED TODAY

BILL # ACCOUNTING OF ACTIVITIES BY ITEM #

Crew Assignment #	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
Driller	BOSIT GULOMOV	45	12		12
A.P.	ANDREY POPOV	45	12		12
V.M.	VICTOR MOISYEV	45	12		12

Description	Unit #	Status
FDW-200	28605 w/K	
1989 MACK	18000	
DUMP TRUCK		S/B
ELEMENT	28145	
UNIT		S/B
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	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 Ocean 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	Roaming	
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 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

TIME OF ACTIVITY BY ITEM #

Quantity	Description
	SAFETY MTG!
	HOUSEKEEPING!
	H.I.R.A. PPE! HAND SAFETY!
	PINCH POINT! LOADER SAFETY!

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

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

MIX KILL! HOUSEKEEPING! SITE CLEAN UP!

Signature
LCC 05/18/02/202

5-21-12
Date

Client's Signature

PAYROLL

Date

Supervisor's Signature

Date



LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT FPLProposed Turkey Point Units 6 and 7
Docket Nos. 52-040 and 52-041
L-2012-255 Enclosure 1 Page 23 of 107DATE 5/22/12
Tuesday daysJOB # 11771.1405.10000
JOBSITE LOCATION Turkey PointJOBSITE NAME MW-1

PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee - Full Name	Per Diem? (K)	Onsite Hours	Offsite Hours	Total Hours
MR	Michael A. Ramirez	45	12		12
UI	Vad Ishimou	45	12		12
SM	James McDonnell	45	8	8	16
BP	Bob Feetham	45	12		12

EQUIPMENT DEPLOYED TODAY

Description	Unit #	Status
FDW 200	286054	YK
'89 Mack Dump	18000	5/10
Cement Unit	28145	5/10
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 Meetings
	① Hand safety
	② Tripping IN the Pump/Packer Test
	PPE, slip-trip-fall, ladder safety, Arc welding safety, Proper technique.

TIME OF ACTIVITY BY ITEM

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

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

Help Welders. Trip in 3 std. Airline 3 Pump for Packer test #2.
Run Packer test #2. Continue to help Welders.

Installer's Signature
LCC 05/11 0822095/22/12
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. 52-040 and 52-041

DATE

5-22-12

JOB #

11771-1405-10000.

JOBSITE NAME

MW - 1

2012-255 Enclosure 1 Page 24 of 107

THE NIGHT

JOBSITE LOCATION

T.P.

PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
DRILLER	BOSIT GULOMOV	45	8		8
G.H.	GEORGE HAGA	45	8		8
A.P.	ANDREY POPOV	45	8		8
WM	VICTOR MOISYEV	7	8		8

EQUIPMENT DEPLOYED TODAY

Description	Unit #	Status
FDW - 200	28605 w/K	
1989 MACK	18000 S/B	
DUMP TRUCK		
CEMENT	2845 S/B	
UNIT		
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 MTC!
	T.O.H PACKER!
	HAND SAFETY! PINCH POINT!
	PPE!

TIME OF ACTIVITY BY ITEM

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

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

PACKER TEST #2 RECOVERY T.O.H PACKER
Kill D.P. 6" Kill T.O.H AIR line + pump.

Installer's Signature
LCC 0581 082209

Date

5-22-12

Client's Signature

PAYROLL

Date

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	
12/15/2011	1109	9.61	-0.73	75,400	28,300	53,700	30.0	
12/22/2011	1038	9.67	-0.79	69,300	29,500	51,800	30.7	
12/29/2011	0918	9.87	-0.99	76,900	30,800	51,300	29.7	
1/5/2012	1118	10.41	-1.53	70,400	28,100	52,200	29.5	
1/12/2012	1058	10.21	-1.33	75,200	28,200	50,900	29.9	
1/19/2012	0958	10.30	-1.42	75,200	27,700	49,300	29.8	
1/26/2012	1048	10.22	-1.34	72,300	29,400	55,300	30.0	
2/2/2012	1048	10.21	-1.33	71,300	28,400	50,700	29.9	
2/10/2012	1029	9.15	-0.27	71,400	30,400	52,400	30.0	
2/16/2012	1219	9.47	-0.59	72,300	27,000	53,300	29.9	
2/23/2012	1049	9.57	-0.69	72,300	29,600	55,100	30.1	
3/1/2012	1038	9.74	-0.86	72,300	31,500	50,100	30.0	
3/8/2012	1058	9.76	-0.88	72,200	31,600	53,100	29.3	
3/16/2012	1038	9.65	-0.77	72,100	34,900	53,100	29.9	
3/22/2012	1108	9.90	-1.02	72,400	30,800	48,700	29.8	
3/29/2012	0911	9.87	-0.99	72,500	29,100	48,600	29.2	
4/5/2012	1208	10.25	-1.37	71,600	29,200	50,800	30.0	
4/12/2012	1118	10.15	-1.27	71,500	32,000	52,700	30.1	
4/19/2012	1143	9.85	-0.97	72,000	34,000	54,500	30.3	
4/26/2012	1009	9.50	-0.62	72,100	36,000	54,200	29.7	
5/3/2012	1144	8.85	0.03	72,400	36,500	50,900	29.6	
5/10/2012	1109	9.42	-0.54	72,800	32,000	51,700	29.7	
5/17/2012	0959	9.05	-0.17	73,200	29,500	53,200	29.7	

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	
12/15/2011	1219	9.53	-0.94	76,600	28,000	55,100	30.1	
12/22/2011	1149	9.65	-1.06	72,300	29,000	52,400	30.0	
12/29/2011	1029	9.96	-1.37	77,600	29,800	52,200	30.1	
1/5/2012	1229	10.31	-1.72	72,800	27,700	53,400	30.1	
1/12/2012	1204	10.10	-1.51	76,000	30,800	52,900	30.1	
1/19/2012	1139	10.38	-1.79	76,500	28,100	50,800	30.0	
1/26/2012	1229	10.18	-1.59	73,200	29,900	56,300	30.1	
2/2/2012	1229	10.23	-1.64	72,400	27,900	52,000	30.1	
2/10/2012	1209	9.21	-0.62	72,000	29,800	55,400	30.2	
2/16/2012	1359	9.45	-0.86	72,700	27,700	57,200	30.2	
2/23/2012	1229	9.48	-0.89	72,800	32,100	57,000	30.2	
3/1/2012	1219	9.61	-1.02	72,800	31,000	51,700	30.2	
3/8/2012	1244	9.81	-1.22	72,500	32,500	52,500	29.9	
3/16/2012	1219	9.61	-1.02	72,900	34,300	53,100	30.3	
3/22/2012	1249	9.87	-1.28	72,600	31,000	51,100	30.2	
3/29/2012	1054	9.97	-1.38	72,900	29,500	51,200	29.9	
4/5/2012	1341	10.05	-1.46	72,300	29,500	52,200	30.2	
4/12/2012	1259	9.98	-1.39	72,200	31,200	53,800	30.5	
4/19/2012	1244	9.90	-1.31	71,800	33,500	54,500	30.4	
4/26/2012	1144	9.61	-1.02	72,200	35,500	54,500	30.0	
5/3/2012	1249	8.97	-0.38	73,100	37,400	51,700	30.2	
5/10/2012	1242	9.32	-0.73	73,300	32,100	53,100	30.2	
5/17/2012	1134	9.10	-0.51	73,300	27,700	54,100	30.1	

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

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



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

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

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



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







**EW-1 Pad Monitoring Well Water Quality Data
Southwest Pad Monitoring Well
(SW-EW PMW)**

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

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

Project:		Florida Power & Light Company Miami-Dade County, Florida Dual-Zone Monitor Well DZMW-1						 	
<p align="center">DZMW-1 Pad Monitoring Well Water Quality Data Northeast Pad Monitoring Well (NE-DZMW PMW)</p>									
Date	Time (hours)	Depth to Water (ft. btoc)	Water Elevation (ft. NAVD 88)	Specific Conductance (umhos/cm)	Chloride (mg/L)	TDS (mg/L)	Temperature (degrees C)	Remarks	
3/20/2012	0958	8.15	-1.08	73,100	33,300	52,200	30.1	Background Sampling	
3/29/2012	1128	8.23	-1.16	73,000	29,600	51,400	30.1		
4/6/2012	0858	8.30	-1.23	72,200	28,800	51,200	30.1		
4/13/2012	1128	8.25	-1.18	72,300	33,900	53,100	30.2		
4/20/2012	1038	8.20	-1.13	72,000	34,700	54,500	30.1		
4/27/2012	0958	7.95	-0.88	72,100	37,300	55,100	29.8		
5/4/2012	1009	7.22	-0.15	72,400	29,900	51,100	29.8		
5/11/2012	1229	7.65	-0.58	72,300	34,700	53,000	30.0		
5/18/2012	1109	7.43	-0.36	73,500	37,600	51,100	30.3		
ft. btoc: feet below top of casing TOC: Top of Casing ft. NAVD 88: North American Vertical Datum of 1988 umhos/cm: micromhos per centimeter mg/L: milligrams per liter C: Celsius Top of Casing Elevation: 7.07 feet NAVD 88									

Project:	Florida Power & Light Company Miami-Dade County, Florida Dual-Zone Monitor Well DZMW-1							 
DZMW-1 Pad Monitoring Well Water Quality Data Southeast Pad Monitoring Well (SE-DZMW PMW)								
Date	Time (hours)	Depth to Water (ft. btoc)	Water Elevation (ft. NAVD 88)	Specific Conductance (umhos/cm)	Chloride (mg/L)	TDS (mg/L)	Temperature (degrees C)	Remarks
3/20/2012	1033	8.25	-1.08	72,700	33,900	50,500	30.1	Background Sampling
3/29/2012	1303	8.33	-1.16	72,800	29,200	50,400	30.2	
4/6/2012	1028	8.30	-1.13	72,300	29,300	53,300	30.2	
4/13/2012	1303	8.32	-1.15	72,400	33,800	54,600	30.2	
4/20/2012	1213	8.28	-1.11	72,300	31,700	55,400	30.2	
4/27/2012	1133	8.10	-0.93	72,600	34,600	53,900	29.5	
5/4/2012	1141	7.40	-0.23	73,300	29,700	52,700	30.0	
5/11/2012	1403	7.67	-0.50	72,700	34,100	52,000	30.1	
5/18/2012	1240	7.58	-0.41	74,000	33,100	52,000	30.7	
ft. btoc: feet below top of casing TOC: Top of Casing ft. NAVD 88: North American Vertical Datum of 1988 umhos/cm: micromhos per centimeter mg/L: milligrams per liter C: Celsius Top of Casing Elevation: 7.17 feet NAVD 88								

Project:	Florida Power & Light Company Miami-Dade County, Florida Dual-Zone Monitor Well DZMW-1							 
DZMW-1 Pad Monitoring Well Water Quality Data Southwest Pad Monitoring Well (SW-DZMW PMW)								
Date	Time (hours)	Depth to Water (ft. btoc)	Water Elevation (ft. NAVD 88)	Specific Conductance (umhos/cm)	Chloride (mg/L)	TDS (mg/L)	Temperature (degrees C)	Remarks
3/20/2012	1137	8.34	-0.97	73,300	32,900	50,300	30.1	Background Sampling
3/29/2012	1229	8.38	-1.01	73,100	29,900	50,700	30.2	
4/6/2012	0954	8.50	-1.13	72,000	28,800	52,500	29.9	
4/13/2012	1227	8.52	-1.15	72,000	32,300	54,400	29.9	
4/20/2012	1139	8.45	-1.08	72,100	31,800	53,700	29.9	
4/27/2012	1101	8.25	-0.88	72,600	31,800	55,300	29.9	
5/4/2012	1108	7.60	-0.23	73,200	30,500	52,600	29.6	
5/11/2012	1331	7.95	-0.58	71,500	35,400	53,800	29.5	
5/18/2012	1208	7.82	-0.45	73,800	32,600	51,200	29.9	
ft. btoc: feet below top of casing TOC: Top of Casing ft. NAVD 88: North American Vertical Datum of 1988 umhos/cm: micromhos per centimeter mg/L: milligrams per liter C: Celsius Top of Casing Elevation: 7.37 feet NAVD 88								

[illegible]



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

Page 1 of 1
Report Printed: 05/25/12
Submission # 1205000601
Order # 17885

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

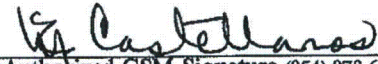
Sample I.D.: DZMW PT-1
Collected: 05/20/12 01:15
Received: 05/22/12 15:10
Collected by: Marty Clasen

LABORATORY ANALYSIS REPORT

PARAMETER	RESULT	QC	UNITS	MDL	PQL	METHOD	DATE EXT.	DATE ANALY.	ANALYST
Specific Conductance (Field)(grab)	45560		uS/cm	1.0	3.0	120.1	05/20 01:15	05/20 01:15	Client
Specific Conductance (grab)	44900		uS/cm	1.0	3.0	120.1	05/23 11:06	05/23 11:06	DGK
Chloride	16300		mg/L	22.00	66.00	300.0	05/22 18:30	05/22 18:30	DGK
Sulfate	1570		mg/L	21.40	64.20	300.0	05/22 18:30	05/22 18:30	DGK
Nitrogen (Ammonia) as N	0.19		mg/L	0.01	0.03	350.1	05/23 12:04	05/23 12:04	RPV
Nitrogen (Kjeldahl) as "N"	0.21		mg/L	0.070	0.210	351.2	05/24 10:00	05/24 18:03	RPV
Total Dissolved Solids (TDS)	28500		mg/L	1.00	3.00	SM 2540C	05/22 16:00	05/23 14:09	MCZ

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

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528 Gooch Rd.
Fort Meade, FL 33841

Big Lake Laboratory
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Spectrum Laboratories
630 Indian St.
Savannah, GA 31401



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

Page 1 of 1
Report Printed: 05/25/12
Submission # 1205000642
Order # 18071

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

Sample I.D.: DZMW1-PT 2 (1288-1317)
Collected: 05/22/12 17:40
Received: 05/23/12 15:00
Collected by: Sally Durall

LABORATORY ANALYSIS REPORT

PARAMETER	RESULT	QC	UNITS	MDL	PQL	METHOD	DATE EXT.	DATE ANALY.	ANALYST
Specific Conductance (Field)(grab)	6080		uS/cm	1.0	3.0	120.1	05/22 17:40	05/22 17:40	Client
Specific Conductance (grab)	5620		uS/cm	1.0	3.0	120.1	05/23 18:29	05/23 18:29	DGK
Chloride	1440		mg/L	5.50	16.50	300.0	05/23 20:02	05/23 20:02	RPV
Sulfate	583		mg/L	5.35	16.05	300.0	05/23 20:02	05/23 20:02	RPV
Nitrogen (Ammonia) as N	0.03		mg/L	0.01	0.03	350.1	05/24 11:20	05/24 11:20	RPV
Nitrogen (Kjeldahl) as "N"	1.57		mg/L	0.070	0.210	351.2	05/24 10:00	05/24 18:04	RPV
Total Dissolved Solids (TDS)	3320		mg/L	1.00	3.00	SM 2540C	05/24 15:43	05/24 15:43	MCZ

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.
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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

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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 "~".

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



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

Page 1 of 4
Report Printed: 05/18/12
Submission # 1205000364
Order # 16813

Project: DZMW-1 PH Water Quality
Site Location: Turkey Point, Homestead, FL
Matrix: Water

Sample I.D.: DZMW1-PH-1105Ft
Collected: 05/09/12 18:00
Received: 05/11/12 16:20
Collected by: Sally Durall

LABORATORY ANALYSIS REPORT

PARAMETER	RESULT	QC	UNITS	MDL	PQL	METHOD	DATE EXT.	DATE ANALY.	ANALYST
Specific Conductance (Field)(grab)	1171		uS/cm	1.0	3.0	120.1	05/09 18:00	05/09 18:00	Client
Specific Conductance (grab)	1134		uS/cm	1.0	3.0	120.1	05/12 15:02	05/12 15:02	DGK
Chloride	111		mg/L	0.55	1.65	300.0	05/11 17:51	05/11 17:51	DGK
Nitrogen (Ammonia) as N	U	U	mg/L	0.01	0.03	350.1	05/16 15:16	05/16 15:16	RPV
Nitrogen (Kjeldahl) as "N"	0.46		mg/L	0.070	0.210	351.2	05/15 10:00	05/15 13:24	MSG
Total Dissolved Solids (TDS)	744		mg/L	1.00	3.00	SM 2540C	05/15 15:00	05/16 15:32	MCZ

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

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

Page 2 of 4
Report Printed: 05/18/12
Submission # 1205000364
Order # 16814

Project: DZMW-1 PH Water Quality
Site Location: Turkey Point, Homestead, FL
Matrix: Water

Sample I.D.: DZMW1-PH-1164Ft
Collected: 05/10/12 05:00
Received: 05/11/12 16:20
Collected by: Sally Durall

LABORATORY ANALYSIS REPORT

PARAMETER	RESULT	QC	UNITS	MDL	PQL	METHOD	DATE EXT.	DATE ANALY.	ANALYST
Specific Conductance (Field)(grab)	1247		uS/cm	1.0	3.0	120.1	05/10 05:00	05/10 05:00	Client
Specific Conductance (grab)	1233		uS/cm	1.0	3.0	120.1	05/12 15:02	05/12 15:02	DGK
Chloride	190		mg/L	0.55	1.65	300.0	05/11 17:51	05/11 17:51	DGK
Nitrogen (Ammonia) as N	U	U	mg/L	0.01	0.03	350.1	05/16 15:16	05/16 15:16	RPV
Nitrogen (Kjeldahl) as "N"	1.1		mg/L	0.070	0.210	351.2	05/15 10:00	05/15 13:24	MSG
Total Dissolved Solids (TDS)	812		mg/L	1.00	3.00	SM 2540C	05/15 15:00	05/16 15:33	MCZ

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

Page 3 of 4
Report Printed: 05/18/12
Submission # 1205000364
Order # 16815

Project: DZMW-1 PH Water Quality
Site Location: Turkey Point, Homestead, FL
Matrix: Water

Sample I.D.: DZMW1-PH-1254Ft
Collected: 05/10/12 20:00
Received: 05/11/12 16:20
Collected by: Sally Dural

LABORATORY ANALYSIS REPORT

PARAMETER	RESULT	QC	UNITS	MDL	PQL	METHOD	DATE EXT.	DATE ANALY.	ANALYST
Specific Conductance (Field)(grab)	2308		uS/cm	1.0	3.0	120.1	05/10 20:00	05/10 20:00	Client
Specific Conductance (grab)	2400		uS/cm	1.0	3.0	120.1	05/12 15:03	05/12 15:03	DGK
Chloride	596		mg/L	1.10	3.30	300.0	05/11 17:51	05/11 17:51	DGK
Nitrogen (Ammonia) as N	U	U	mg/L	0.01	0.03	350.1	05/16 15:16	05/16 15:16	RPV
Nitrogen (Kjeldahl) as "N"	0.49		mg/L	0.070	0.210	351.2	05/15 10:00	05/15 13:24	MSG
Total Dissolved Solids (TDS)	1450		mg/L	1.00	3.00	SM 2540C	05/15 15:00	05/16 15:33	MCZ

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

Page 4 of 4
Report Printed: 05/18/12
Submission # 1205000364
Order # 16816

Project: DZMW-1 PH Water Quality
Site Location: Turkey Point, Homestead, FL
Matrix: Water

Sample I.D.: DZMW1-PH-1344Ft
Collected: 05/11/12 06:15
Received: 05/11/12 16:20
Collected by: Sally Durall

LABORATORY ANALYSIS REPORT

PARAMETER	RESULT	QC	UNITS	MDL	PQL	METHOD	DATE EXT.	DATE ANALY.	ANALYST
Specific Conductance (Field)(grab)	2772		uS/cm	1.0	3.0	120.1	05/11 06:15	05/11 06:15	Client
Specific Conductance (grab)	2830		uS/cm	1.0	3.0	120.1	05/12 15:19	05/12 15:19	DGK
Chloride	754		mg/L	1.10	3.30	300.0	05/11 17:51	05/11 17:51	DGK
Nitrogen (Ammonia) as N	U	U	mg/L	0.01	0.03	350.1	05/16 15:16	05/16 15:16	RPV
Nitrogen (Kjeldahl) as "N"	0.48		mg/L	0.070	0.210	351.2	05/15 10:00	05/15 13:24	MSG
Total Dissolved Solids (TDS)	1650		mg/L	1.00	3.00	SM 2540C	05/15 15:00	05/16 15:33	MCZ

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Proposed Turkey Point Units 6 and 7
Docket Nos. 52-040 and 52-041
-2012-255 Enclosure 1 Page 41 of 111



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

Page 1 of 6
Report Printed: 05/23/12
Submission # 1205000505
Order # 17393

Project: DZMW-1 PH Water Quality
Site Location: Turkey Point, Homestead, FL
Matrix: Water

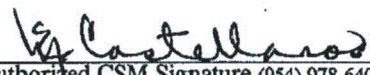
Sample I.D.: DZMW1-PH-1434 ft
Collected: 05/12/12 06:00
Received: 05/17/12 15:00
Collected by: Client

LABORATORY ANALYSIS REPORT

PARAMETER	RESULT	QC	UNITS	MDL	PQL	METHOD	DATE EXT.	DATE ANALY.	ANALYST
Specific Conductance (Field)(grab)	4125		uS/cm	1.0	3.0	120.1	05/12 06:00	05/12 06:00	Client
Specific Conductance (grab)	3690		uS/cm	1.0	3.0	120.1	05/18 14:22	05/18 14:22	DGK
Chloride	969		mg/L	2.20	6.60	300.0	05/17 18:32	05/17 18:32	DGK
Nitrogen (Ammonia) as N	U	U	mg/L	0.01	0.03	350.1	05/18 16:30	05/18 16:30	RPV
Nitrogen (Kjeldahl) as "N"	0.29		mg/L	0.070	0.210	351.2	05/22 10:00	05/22 13:54	MSG
Total Dissolved Solids (TDS)	2080		mg/L	1.00	3.00	SM 2540C	05/18 10:30	05/21 13:58	MCZ

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5061 Luckett Road
Fort Myers, FL 33905

Page 2 of 6
Report Printed: 05/23/12
Submission # 1205000505
Order # 17394

Project: DZMW-1 PH Water Quality
Site Location: Turkey Point, Homestead, FL
Matrix: Water

Sample I.D.: DZMW1-PH-1524 ft
Collected: 05/12/12 14:30
Received: 05/17/12 15:00
Collected by: Client

LABORATORY ANALYSIS REPORT

PARAMETER	RESULT	QC	UNITS	MDL	PQL	METHOD	DATE EXT.	DATE ANALY.	ANALYST
Specific Conductance (Field)(grab)	4385		uS/cm	1.0	3.0	120.1	05/12 14:30	05/12 14:30	Client
Specific Conductance (grab)	3920		uS/cm	1.0	3.0	120.1	05/18 14:22	05/18 14:22	DGK
Chloride	1050		mg/L	2.20	6.60	300.0	05/17 18:32	05/17 18:32	DGK
Nitrogen (Ammonia) as N	U	U	mg/L	0.01	0.03	350.1	05/18 16:30	05/18 16:30	RPV
Nitrogen (Kjeldahl) as "N"	0.60		mg/L	0.070	0.210	351.2	05/22 10:00	05/22 13:54	MSG
Total Dissolved Solids (TDS)	2210		mg/L	1.00	3.00	SM 2540C	05/18 10:30	05/21 13:59	MCZ

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

Page 3 of 6
Report Printed: 05/23/12
Submission # 1205000505
Order # 17395

Project: DZMW-1 PH Water Quality
Site Location: Turkey Point, Homestead, FL
Matrix: Water

Sample I.D.: DZMW1-PH-1614 ft
Collected: 05/13/12 07:30
Received: 05/17/12 15:00
Collected by: Client

LABORATORY ANALYSIS REPORT

PARAMETER	RESULT	QC	UNITS	MDL	PQL	METHOD	DATE EXT.	DATE ANALY.	ANALYST
Specific Conductance (Field)(grab)	4327		uS/cm	1.0	3.0	120.1	05/13 07:30	05/13 07:30	Client
Specific Conductance (grab)	4040		uS/cm	1.0	3.0	120.1	05/18 14:22	05/18 14:22	DGK
Chloride	1130		mg/L	2.20	6.60	300.0	05/17 18:32	05/17 18:32	DGK
Nitrogen (Ammonia) as N	U	U	mg/L	0.01	0.03	350.1	05/18 16:30	05/18 16:30	RPV
Nitrogen (Kjeldahl) as "N"	0.20	I	mg/L	0.070	0.210	351.2	05/22 10:00	05/22 13:54	MSG
Total Dissolved Solids (TDS)	2260		mg/L	1.00	3.00	SM 2540C	05/18 10:30	05/21 13:59	MCZ

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

Page 4 of 6
Report Printed: 05/23/12
Submission # 1205000505
Order # 17396

Project: DZMW-1 PH Water Quality
Site Location: Turkey Point, Homestead, FL
Matrix: Water

Sample I.D.: DZMW1-PH-1704 ft
Collected: 05/13/12 23:15
Received: 05/17/12 15:00
Collected by: Client

LABORATORY ANALYSIS REPORT

PARAMETER	RESULT	QC	UNITS	MDL	PQL	METHOD	DATE EXT.	DATE ANALY.	ANALYST
Specific Conductance (Field)(grab)	7770		uS/cm	1.0	3.0	120.1	05/13 23:15	05/13 23:15	Client
Specific Conductance (grab)	7700		uS/cm	1.0	3.0	120.1	05/18 14:23	05/18 14:23	DGK
Chloride	2620		mg/L	5.50	16.50	300.0	05/17 18:32	05/17 18:32	DGK
Nitrogen (Ammonia) as N	U	U	mg/L	0.01	0.03	350.1	05/18 16:30	05/18 16:30	RPV
Nitrogen (Kjeldahl) as "N"	0.38		mg/L	0.070	0.210	351.2	05/22 10:00	05/22 13:54	MSG
Total Dissolved Solids (TDS)	4460		mg/L	1.00	3.00	SM 2540C	05/18 10:30	05/21 13:59	MCZ

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

Page 5 of 6
Report Printed: 05/23/12
Submission # 1205000505
Order # 17397

Project: DZMW-1 PH Water Quality
Site Location: Turkey Point, Homestead, FL
Matrix: Water

Sample I.D.: DZMW1-PH-1794 ft
Collected: 05/14/12 16:15
Received: 05/17/12 15:00
Collected by: Client

LABORATORY ANALYSIS REPORT

PARAMETER	RESULT	QC	UNITS	MDL	PQL	METHOD	DATE EXT.	DATE ANALY.	ANALYST
Specific Conductance (Field)(grab)	24560		uS/cm	1.0	3.0	120.1	05/14 16:15	05/14 16:15	Client
Specific Conductance (grab)	24000		uS/cm	1.0	3.0	120.1	05/18 14:23	05/18 14:23	DGK
Chloride	10300		mg/L	11.00	33.00	300.0	05/17 18:32	05/17 18:32	DGK
Nitrogen (Ammonia) as N	U	U	mg/L	0.01	0.03	350.1	05/18 16:30	05/18 16:30	RPV
Nitrogen (Kjeldahl) as "N"	0.24		mg/L	0.070	0.210	351.2	05/22 10:00	05/22 13:54	MSG
Total Dissolved Solids (TDS)	15300		mg/L	1.00	3.00	SM 2540C	05/18 10:30	05/21 14:00	MCZ

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

Page 6 of 6
Report Printed: 05/23/12
Submission # 1205000505
Order # 17398

Project: DZMW-1 PH Water Quality
Site Location: Turkey Point, Homestead, FL
Matrix: Water

Sample I.D.: DZMW1-PH-1884 ft
Collected: 05/15/12 19:15
Received: 05/17/12 15:00
Collected by: Client


LABORATORY ANALYSIS REPORT

PARAMETER	RESULT	QC	UNITS	MDL	PQL	METHOD	DATE EXT.	DATE ANALY.	ANALYST
Specific Conductance (Field)(grab)	41640		uS/cm	1.0	3.0	120.1	05/15 19:15	05/15 19:15	Client
Specific Conductance (grab)	41600		uS/cm	1.0	3.0	120.1	05/18 14:24	05/18 14:24	DGK
Chloride	22300		mg/L	22.00	66.00	300.0	05/17 18:32	05/17 18:32	DGK
Nitrogen (Ammonia) as N	U	U	mg/L	0.01	0.03	350.1	05/18 16:30	05/18 16:30	RPV
Nitrogen (Kjeldahl) as "N"	0.34		mg/L	0.070	0.210	351.2	05/22 10:00	05/22 13:54	MSG
Total Dissolved Solids (TDS)	27800		mg/L	1.00	3.00	SM 2540C	05/18 10:30	05/21 14:00	MCZ

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Florida-Spectrum Environmental Services, Inc.
Certification # E86006

SUBMISSION # 1205 505		CHAIN OF CUSTODY RECORD				DUE DATE Requested							
Logged in LIMS by <u> </u> CSM assigned <u> </u>				<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 Surcharges apply									
		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 LUCETT RD, FT. MYERS, FL 33905</u>		Invoice to: Address: <u>5061 LUCETT RD, FT. MYERS, FL 33905</u>		Site: Location: <u>TURKEY POINT, HOMESTEAD, FL 33035</u>		Email: <u>CTBRUGGER@LAYNECHRISTENSEN.COM</u> <u>BSALLEN@LAYNECHRISTENSEN.COM</u>					
Invoice to: (company name) <u>LAYNE CHRISTENSEN CO</u>		Purchase Order # <u> </u>		Project Name <u>FDA TURKEY POINT</u> and/or Number <u>DZMW-1 PH WATER QUALITY</u>		Project <u>BRIDGE AVE</u> Contact: <u>CRAG BRUGGER</u>		Phone: <u>239.275.1029/239.275.1025</u> Affiliation: <u>MHC</u>					
Sampler Name: (printed) <u>SALLY DUNALL</u>		Sampler Signature: <u>[Signature]</u>		Analysis Required		Field Tests							
ORDER #	Sample ID	Date Sampled	Time Sampled	Matrix	Bottle & Pres.	Number of Containers Received & NELAC Letter Suffixes # A-?	TEMP °C	PH	COND	CHLOR			
Lab Control Number				DW SW GW WW SED HW BIO SEA OIL X AIR	Combo Codes								
Shaded Areas For Laboratory Use Only													
1	17393	DZMW1-PH-1434	5/12/12	06:00	GW	SE	2	1	1	29.3	8.06	425	X
2	17394	DZMW1-PH-1524	5/12/12	14:30	GW		2	1	1	29.7	8.08	438	X
3	17395	DZMW1-PH-164	5/13/12	07:30	GW		2	1	1	26.6	8.36	432	X
4	17396	DZMW1-PH-170	5/13/12	23:15	GW		2	1	1	24.8	8.05	472	X
5	17397	DZMW1-PH-179	5/14/12	16:15	GW		2	1	1	26.3	7.45	443	X
6	17398	DZMW1-PH-188	5/15/12	19:15	GW		2	1	1	25.9	7.71	416	X
7													
8													
9													
10													
Special Comments: "I waive TNI protocol" (emergency) (sign here) > <u> </u>						Total	Signature Affiliation Date/Time 1 Relinquished by: <u>[Signature]</u> <u>5-17-12/11:30</u> 1 Received by: <u>ARGLO PUFFENBER</u> <u>5-17-12 11:35</u> 2 Relinquished by: <u>ARGLO PUFFENBER</u> <u>5-17-12 15:00</u> 2 Received by: <u>ARGLO PUFFENBER</u> <u>5/17/12 15:00</u> 3 Relinquished by: <u> </u> 3 Received by: <u> </u>						
Deliverables: QA/QC Report Needed? Yes No (additional charge)						Sample Custody & Field Comments Temp as received <u>4</u> °C Custody seals? Y N FIELD TIME: <u> </u> hrs Sampling <u> </u> hrs Pick-Up <u> </u> hrs Misc. Charges <u> </u>							
Bottle Type 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 B-brown liter plastic						Preservatives A-ascorbic acid C-HCL Cu-CuSO4 DI-DI water H-HNO3 M-MCAB MeOH-Methanol Z-zinc acetate P-H3PO4 S-H2SO4 T-Na2S2O3 U-Unpreserved N-NaOH NH4-NH4CL Additional Preservatives Hex-Hex Cr Buffer EDA-Ethylene Diamine							
www.flenviro.com						COC Page <u> </u> of <u> </u>							

Florida Power & Light Company Turkey Point Dual-Zone Monitor Well DZMW-1 Daily Kill Material Log			
Date	Depth (feet bpl)	Kill Used	Approximate Volume (gallons)
5/8/2012	1105	Bentonite /Barite	379
5/11/2012	1344	Bentonite /Barite	379
5/11/2012	1389	Bentonite /Barite	379
5/12/2012	1479	Bentonite /Barite	379
5/12/2012	1524	Bentonite /Barite	379
5/13/2012	1614	Bentonite /Barite	379
5/13/2012	1659	Bentonite /Barite	190
5/13/2012	1704	Bentonite /Barite	284
5/17/2012	1905	Bentonite /Barite	2,842
5/18/2012	1905	Bentonite /Barite	4,548
5/22/2012	1905	Bentonite /Barite	569
feet bpl = feet below pad level			

MV Geophysical

X-Y CALIPER GAMMA RAY LOG

Company FP&L Well Turkey Point DZMW-1 Field Florida City County Miami-Dade State Florida	Country USA	Company	FP&L	Proposed Turkey Point Units 6 and 7 Docket Nos. 52-040 and 52-041 L-2012-255 Enclosure 1 Page 50 of 107			
		Well	Turkey Point DZMW-1				
		Field	Florida City				
		County	Miami-Dade				
		State	Florida	Country	USA		
		Location:	API # :			Other Services	
		FPL Turkey Point Power Plant			XY/GR,FCT		
		LAT: 25 25' 19" N LONG: 80 20' 08" W			DIL,BHC		
		McNabb Hydrogeologic Consulting, Inc.			FLO,TDS		
		SEC TWP RGE			Elevation		
		Permanent Datum	Pad Level	Elevation		K.B.	
		Log Measured From	Pad Level			D.F.	
		Drilling Measured From	Pad Level			G.L.	
Date	17-MAY-2012						
Run Number	SIX						
Depth Driller	1905'						
Depth Logger	1905'						
Bottom Logged Interval	1905'						
Top Log Interval	1045'						
Open Hole Size	12.25"						
Type Fluid	H2O						
Density / Viscosity	NA/NA						
Max. Recorded Temp.	see FCT log						
Estimated Cement Top	SURFACE						
Time Well Ready	13:00 5/17/2012						
Time Logger on Bottom	13:15 5/17/2012						
Equipment Number	MVGS-1						
Location	Ft. Myers						
Recorded By	S.Miller						
Witnessed By	M.Clasen (MHC)			K.Greuel (LCC)			
Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	12.25"	SURFACE	250'	FIVE	12.25"	1102'	1905'
TWO	42"	SURFACE	258'				
THREE	12.25"	255'	1110'				
FOUR	32.5"	255'	1110'				
Casing Record	Size	Wgt/Ft	Top	Bottom			
Surface String	44"	0.375" WT	SURFACE	36'			
Prot. String	34"	0.375" WT	SURFACE	255'			
Production String	24"	0.375" WT	SURFACE	1102'			
Liner				LTPDZM1A.db			
Invoice No.	2012102	P.O. #:	8fld/las/pdf	* FINAL PRINT *			

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

Comments

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MAXIMUM Caliper Arm Extensions: 33"

TBHV in cubic feet.

Drill Pipe set to 1076'

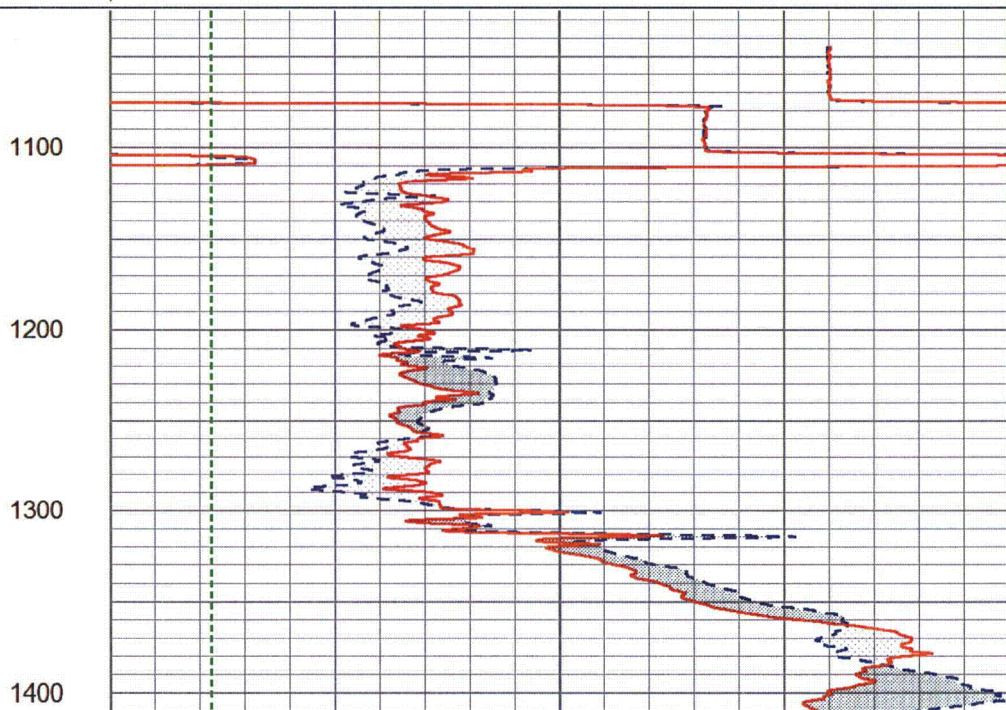
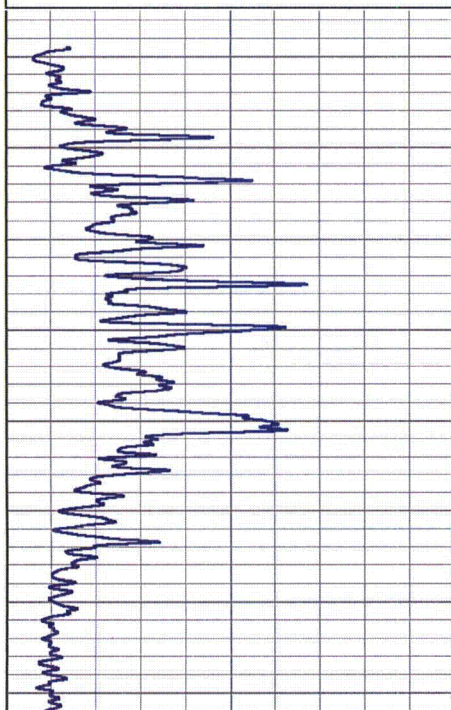
MV
Geophysical

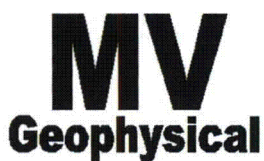
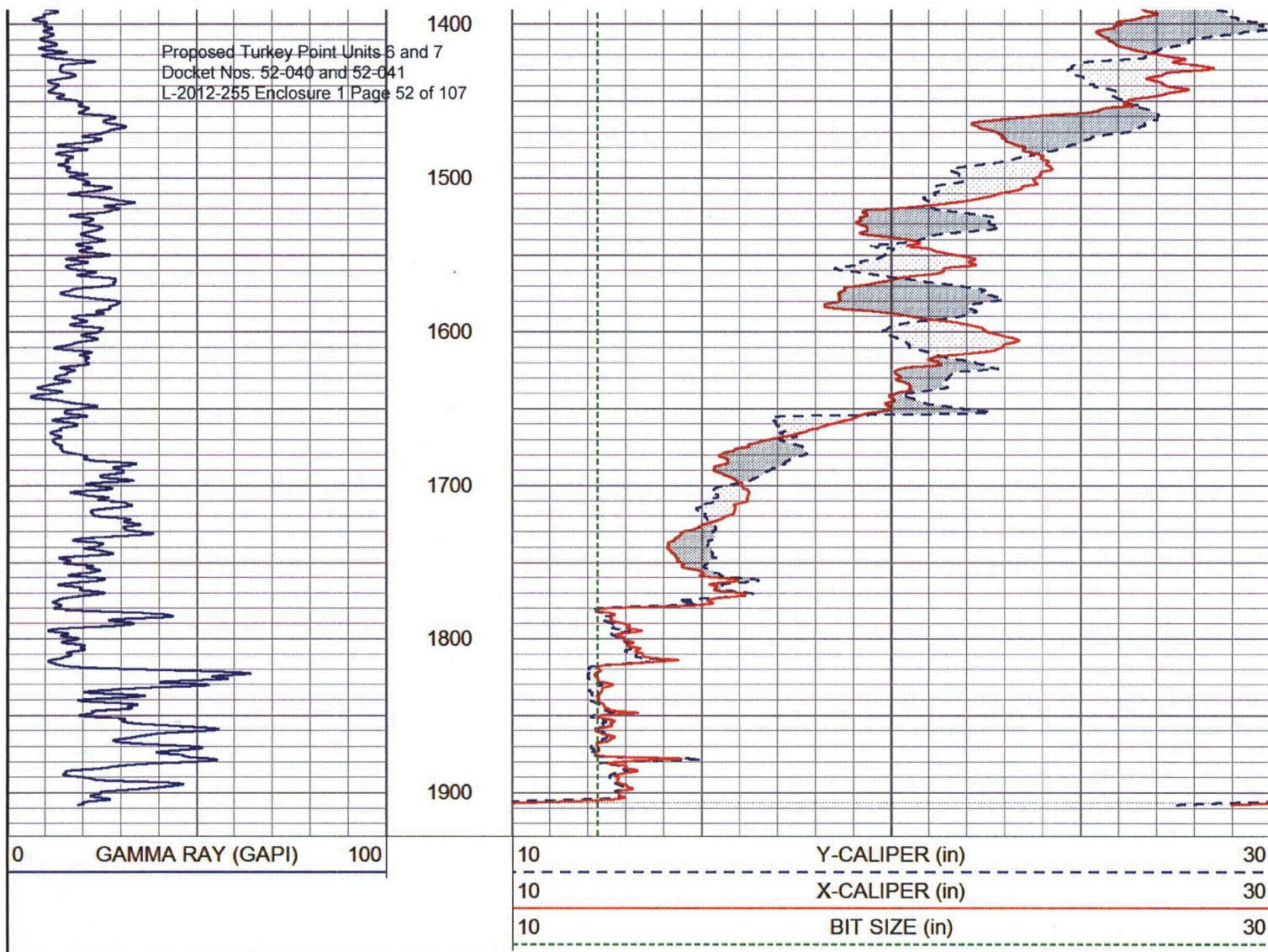
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Dataset Pathname: MAIN
Presentation Format: xy1030-1
Dataset Creation: Thu May 17 15:25:55 2012
Charted by: Depth in Feet scaled 1:1200

0 GAMMA RAY (GAPI) 100

10	Y-CALIPER (in)	30
10	X-CALIPER (in)	30
10	BIT SIZE (in)	30

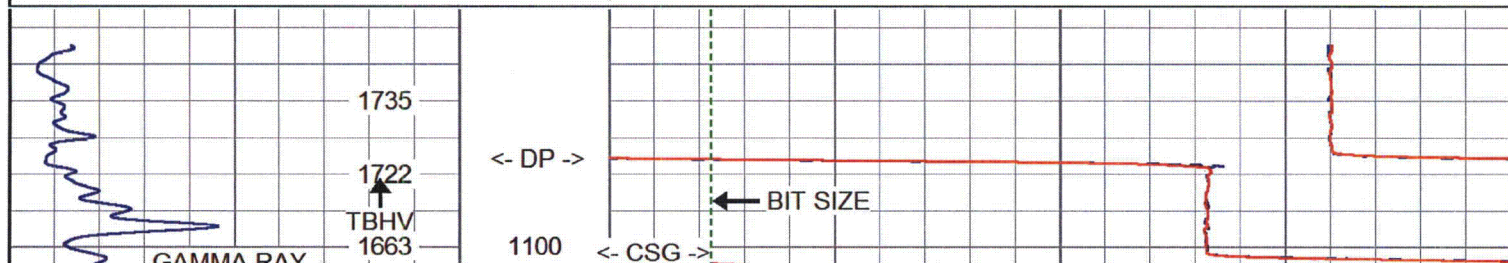


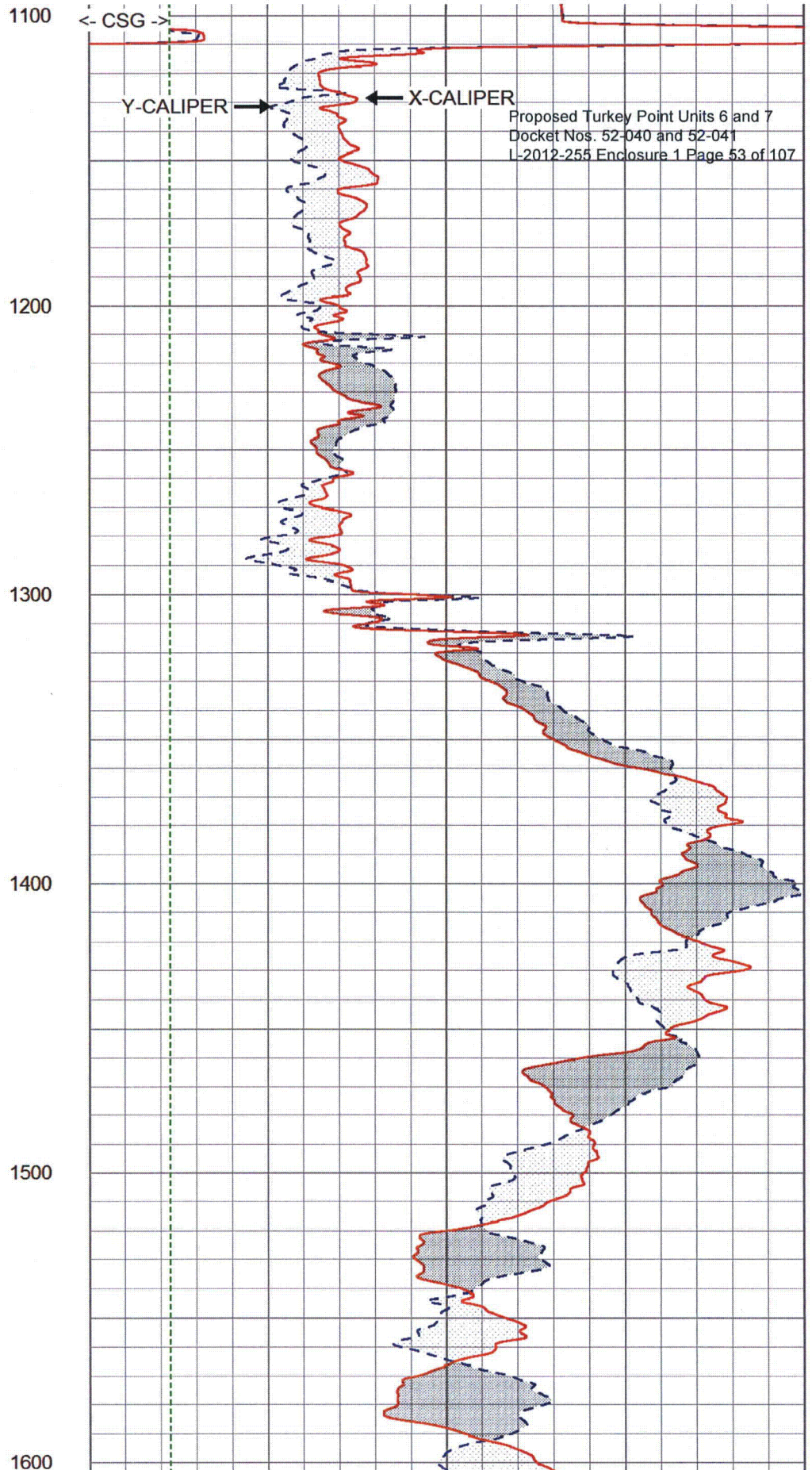
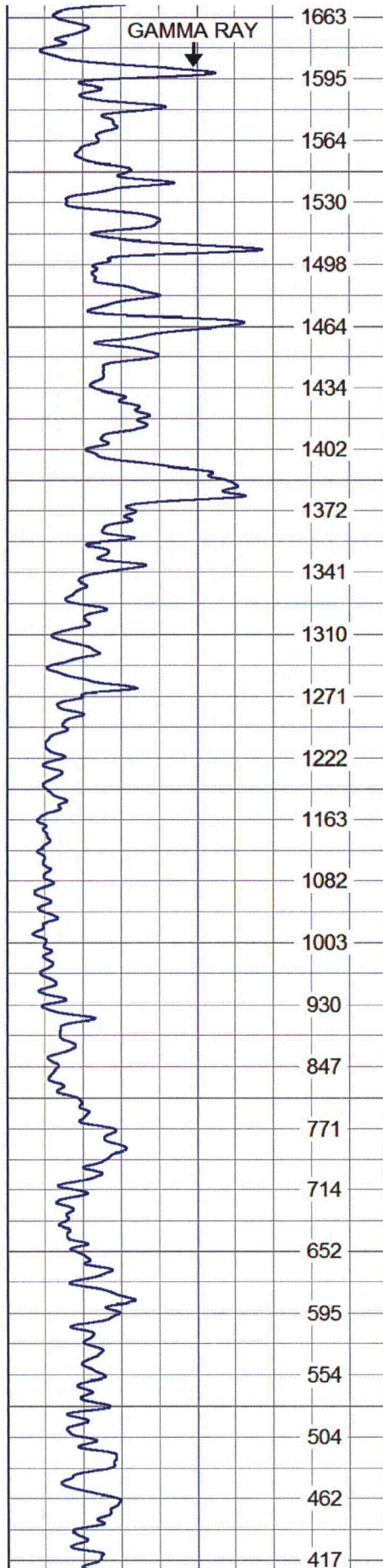


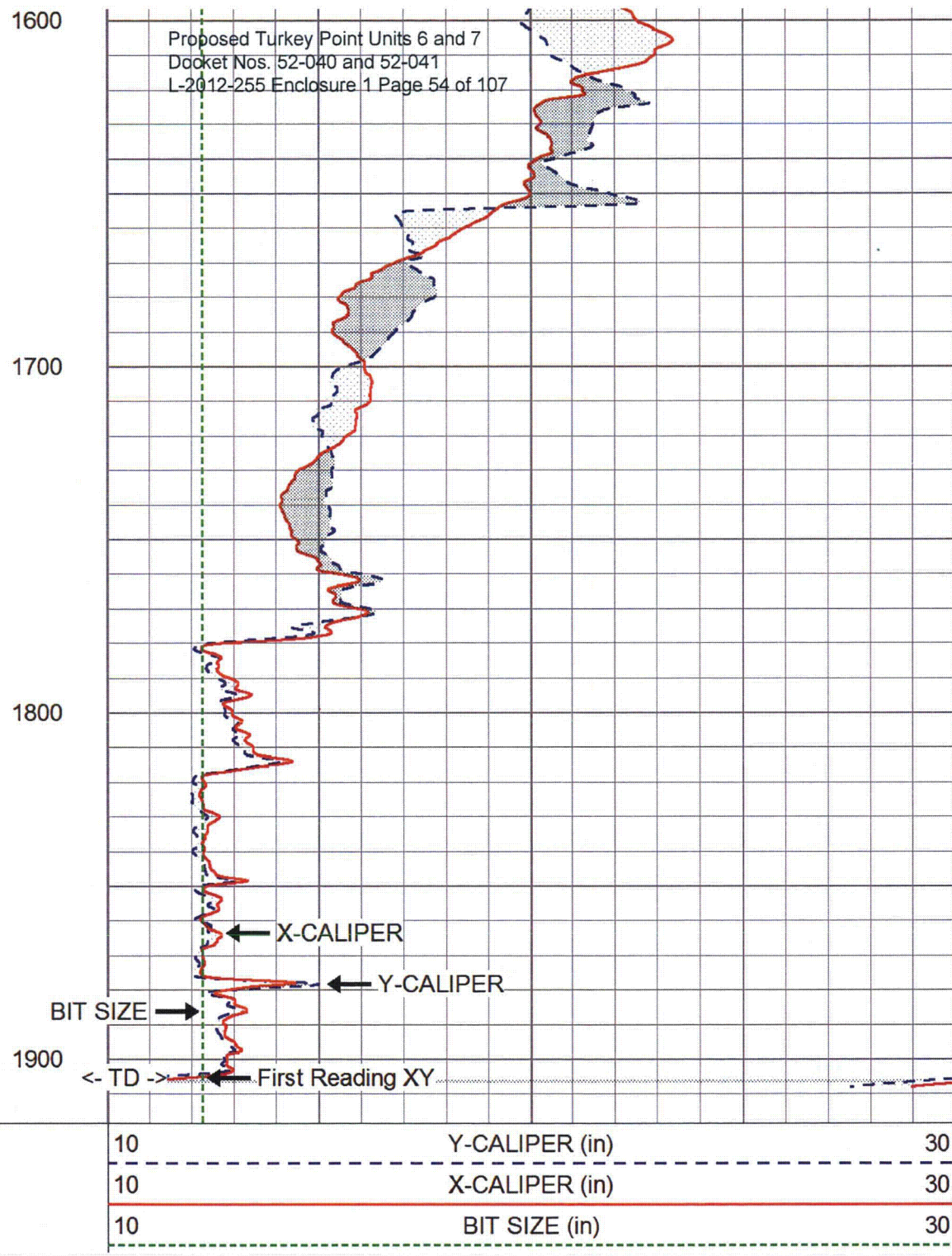
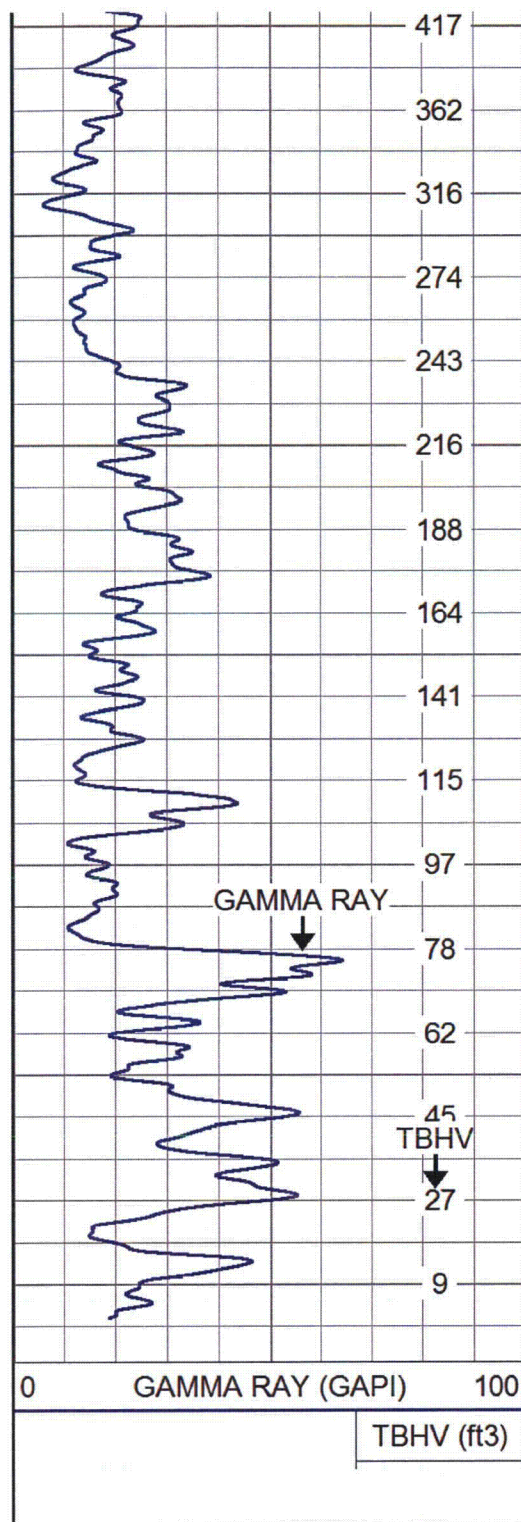
MAIN PASS

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Charted by: Depth in Feet scaled 1:600

0	GAMMA RAY (GAPI)	100	10	Y-CALIPER (in)	30
	TBHV (ft3)		10	X-CALIPER (in)	30
			10	BIT SIZE (in)	30







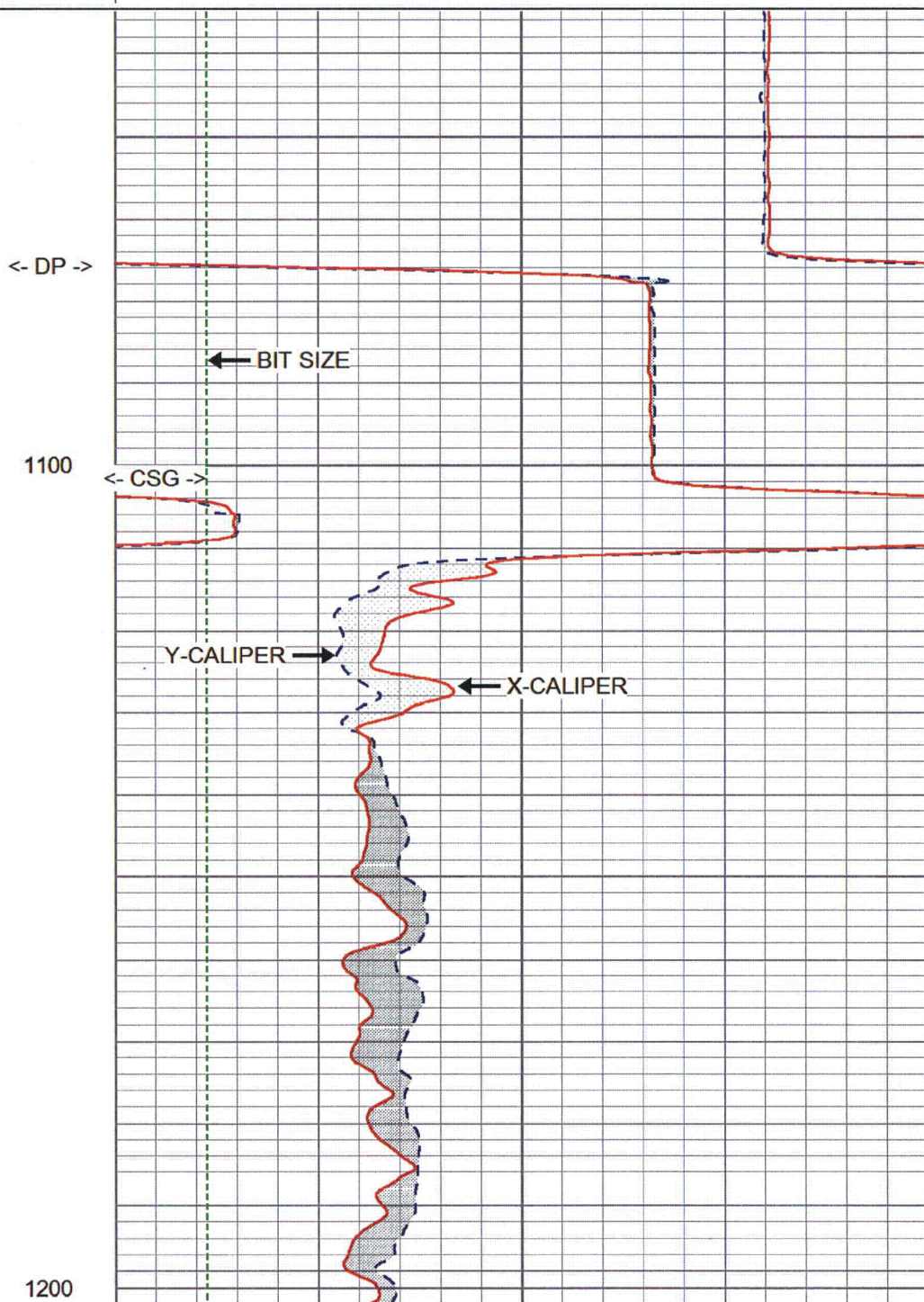
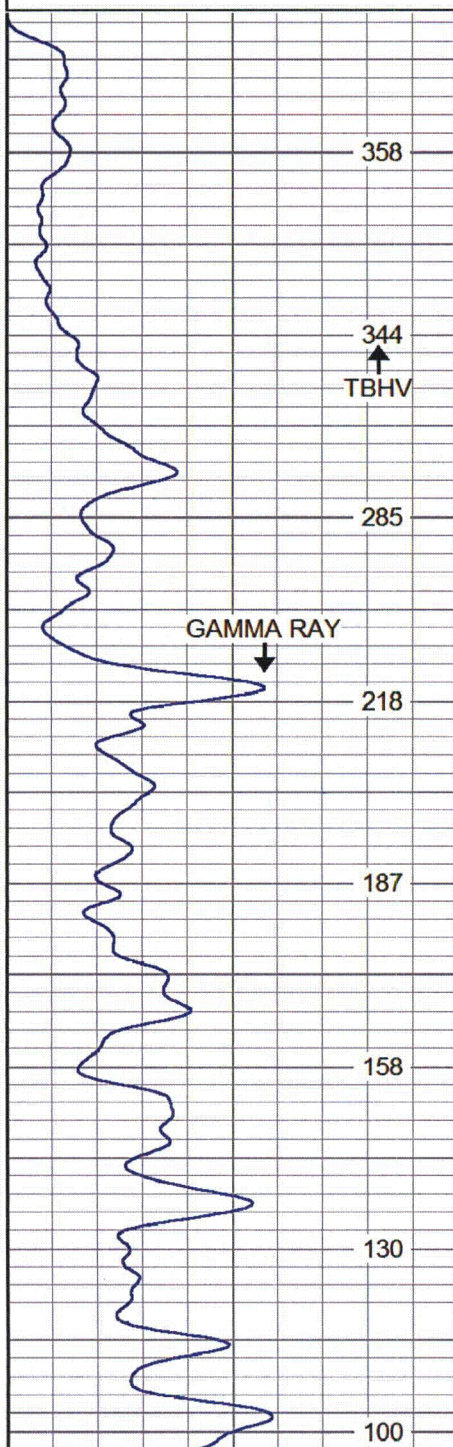
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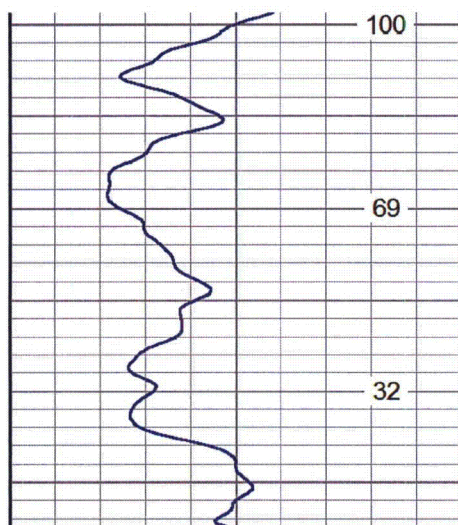
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 Charted by: Depth in Feet scaled 1:240

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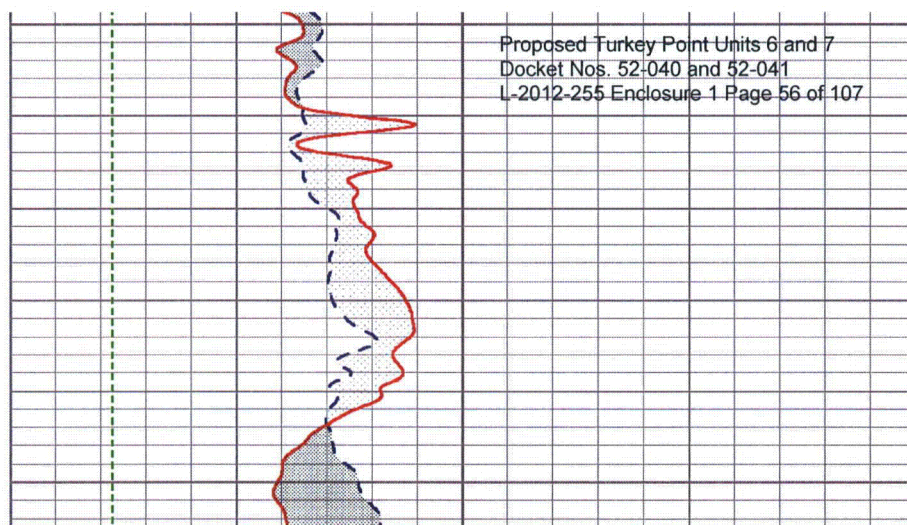
0	GAMMA RAY (GAPI)	100
	TBHV (ft3)	

10	Y-CALIPER (in)	30
10	X-CALIPER (in)	30
10	BIT SIZE (in)	30





1200



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0 GAMMA RAY (GAPI) 100
TBHV (ft3)

10 Y-CALIPER (in) 30
10 X-CALIPER (in) 30
10 BIT SIZE (in) 30

Calibration Report

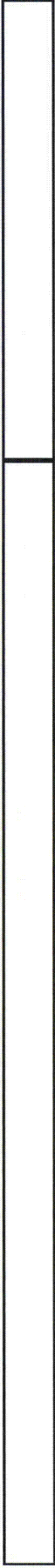

Database File: ltpdzm1a.db
Dataset Pathname: pass4
Dataset Creation: Thu May 17 13:38:49 2012 by Log VER_5.3

XY Caliper Calibration Report

Serial Number:	01S		
Tool Model:	XYCS		
Performed:	Thu May 17 13:40:04 2012		
Small Ring:	12.25	in	
Large Ring:	33	in	
	X Caliper	Y Caliper	
Reading with Small Ring:	726.7	754.3	cps
Reading with Large Ring:	1133.5	1077.5	cps
Gain:	0.0510079	0.0642017	
Offset:	-24.8174	-36.1774	

Gamma Ray Calibration Report

Serial Number:	01	
Tool Model:	GROH	
Performed:	Thu May 17 12:32:32 2012	
Calibrator Value:	120	GAPI
Background Reading:	14.427	cps
Calibrator Reading:	134.287	cps
Sensitivity:	1.00117	GAPI/cps

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
GR	5.00		Proposed Turkey Point Units 6 and 7 Docket Nos. 52-040 and 52-041 L-2012-255 Enclosure 1 Page 57 of 107			
			GR-GROH (01)	2.75	3.50	40.00
			XYC-XYCS (01S)	6.60	3.50	110.00
XCAL YCAL	0.50 0.50					
Dataset: Total Length: Total Weight: O.D.			ltpdzm1a.db: field/well/run1/pass4 9.35 ft 150.00 lb 3.50 in			