



L-2012-055
10 CFR 52.3

February 13, 2012

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

Re: Florida Power & Light Company
Proposed Turkey Point Units 6 and 7
Docket Nos. 52-040 and 52-041
Submittal of Underground Injection Control Exploratory
Well Weekly Construction Summaries – #37, #38, and #39

Reference:

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

This letter provides the Underground Injection Control (UIC) weekly construction summaries #37 dated January 20, 2012, #38 dated January 27, 2012, and #39 dated February 3, 2012, submitted to the Florida Department of Environmental Protection (FDEP) as required by Permit #0293962-001-UC, and discussed in FPL's Revised Hydrology Response to NRC Information Requests in COL Application Acceptance Review Letter (Reference 1).

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

Sincerely,

William Maher
Senior Licensing Director – New Nuclear Projects

WDM/RFB

Enclosures:

1. Florida Power & Light Company Turkey Point Units 6 & 7 Exploratory Well Project; Permit #0293962-001-UC Weekly Construction Summary #37 dated January 20, 2012
2. Florida Power & Light Company Turkey Point Units 6 & 7 Exploratory Well Project; Permit #0293962-001-UC Weekly Construction Summary #38 dated January 27, 2012

Florida Power & Light Company

700 Universe Boulevard, Juno Beach, FL 33408

DO 97
NRO

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3. Florida Power & Light Company Turkey Point Units 6 & 7 Exploratory Well Project;
Permit #0293962-001-UC Weekly Construction Summary #39 dated
February 3, 2012

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

Proposed Turkey Point Units 6 and 7
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Enclosure 1

Florida Power & Light Company Turkey Point Units 6 & 7
Exploratory Well Project; Permit #0293962-001-UC
Weekly Construction Summary #37 dated January 20, 2012

WEEKLY CONSTRUCTION SUMMARY



McNabb Hydrogeologic Consulting, Inc.

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

January 20, 2012

MHCDEP-12-0028

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 #37**

Dear Mr. May:

This is the thirty-seventh weekly construction summary for the above referenced project. The reporting period for this weekly construction summary began at 7:00 AM, Thursday, January 12, 2012 and ended at 7:00 AM, Thursday, January 19, 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 reamed the interval from 2,255 to 2,270 feet below pad level (bpl) using a 28-inch diameter drill bit, performed caliper and gamma ray logging of the reamed interval. A straddle packer test was then performed on the interval from 2,058 to 2,080 feet bpl. The straddle packers were then moved to test the interval from 2,183 to 2,205 feet bpl, however, the interval was not tested due to test interval productivity during conditioning of the test interval. The straddle packers were then removed from the well and the interval from 2,270 to 2,519 feet bpl was reamed using a 28-inch diameter drill bit.

During this reporting period, the drilling contractor reamed the interval from 2,519 to 2,900 feet bpl using a 28-inch diameter drill bit. The borehole then underwent caliper and gamma ray logging. Straddle packers were installed to test the intervals from 2,552 to 2,574 feet bpl, 2,634 to 2,656 feet bpl, 2,844 to 2,866 feet bpl, and 2,480 to 2,502 feet bpl. In each case, the packers failed to isolate the test interval with the exception of the 2,844 to 2,866 feet bpl test interval, which was productive during test interval conditioning, therefore, the test on this interval was terminated.

The interval from 2,058 to 2,080 feet bpl underwent straddle packer testing during the last reporting period. The water sample laboratory analytical report for the water sample collected from this test interval is attached. The attached table provides a summary of the all packer testing data collected to date. Deviation surveys were conducted at 60-foot intervals during reaming. A copy of the deviation survey summary sheet is attached. The well was killed with salt during the reporting period. A daily kill material log providing a summary of daily kill material and kill quantity is attached. An electronic copy of the geophysical logs performed during this reporting period is attached. Hard copies of the log prints are not yet available and will be included with next week's construction summary. Hard copies of the log prints from the previous reporting period are attached.

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

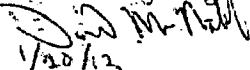
During the next reporting period, it is anticipated that the drilling contractor will perform straddle packer testing on selected intervals between 1,900 and 2,900 feet bpl.

In addition, sampling of the pad monitor wells began on April 21, 2011 and has been taking place on a weekly basis since the initial sampling. The pad monitor wells were most recently sampled on January 12, 2012. The most recent set of pad monitoring well sample results available are for samples collected on January 5, 2012. Sampling of the pad monitor wells around EW-1 will continue until drilling and testing of EW-1 has been completed. Copies of the pad monitor well water quality data summary sheets are attached.

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

Sincerely,

McNabb Hydrogeologic Consulting, Inc.



David McNabb, P.G.

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

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

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



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Daily Construction Log

Date: January 12, 2012

Project: FPL Turkey Point EW

Contractor: Layne Christensen Company

Starting Depth: 2,519 feet bpl

Weather Day: Cloudy, Warm

Weather Night: Cloudy, Mild

Activity: Reaming

FDEP UIC Permit #: 0293962-001-UC

Well No.: EW-1

Bit Diameter: 28-inch

Ending Depth: 2,657 feet bpl

Recorded By: Sally Durall/Marty Clasen

CONSTRUCTION ACTIVITIES

- 0700 Yesterday, the drilling contractor reamed the pilot hole from the depths of 2,377 feet to 2,519 feet below pad level (bpl).
- 0740 The kelly is down at the depth of 2,525 feet bpl. The drilling contractor is circulating the borehole clean in preparation for a deviation survey.
- 0755 The drilling contractor trips inside the drill pipe with the deviation survey tool to a depth of 2,490 feet bpl.
- 0815 The deviation survey is complete and the survey result is 0.3 degrees.
- 0845 The drilling contractor makes a drill pipe connection and resumes reaming the pilot hole from the depth of 2,525 feet bpl.
- 0945 The drilling contractor is reaming the pilot hole at a depth of 2,532 feet bpl.
- 1035 Florida Spectrum Environmental Services, Inc. is on site to sample the pad monitor wells located around EW-1.
- 1045 The drilling contractor is reaming the pilot hole at a depth of 2,540 feet bpl.
- 1145 The drilling contractor is reaming the pilot hole at a depth of 2,547 feet bpl.
- 1325 The drilling contractor is reaming the pilot hole at a depth of 2,558 feet bpl.
- 1435 The drilling contractor is reaming the pilot hole at a depth of 2,566 feet bpl.
- 1505 The kelly is down at the depth of 2,570 feet bpl. The drilling contractor is circulating the borehole clean in preparation for a deviation survey.
- 1535 The drilling contractor trips inside the drill pipe with the deviation survey tool to a depth of 2,550 feet bpl.
- 1600 The deviation survey is complete and the survey result is 0.4 degrees.
- 1620 The drilling contractor makes a drill pipe connection and resumes reaming the pilot hole from the depth of 2,570 feet bpl.
- 1730 The drilling contractor is reaming the pilot hole at a depth of 2,580 feet bpl.
- 1820 The drilling contractor is reaming the pilot hole at a depth of 2,585 feet bpl.
- 1945 The drilling contractor is reaming the pilot hole at a depth of 2,595 feet bpl.
- 2100 The drilling contractor is reaming the pilot hole at a depth of 2,605 feet bpl.
- 2220 The drilling contractor is reaming the pilot hole at a depth of 2,614 feet bpl.
- 0000 The kelly is down at a depth of 2,615 feet bpl. The drilling contractor is preparing to make a drill pipe connection.



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0100 The drilling contractor is reaming the pilot hole at a depth of 2,616 feet bpl.
0200 The drilling contractor is reaming the pilot hole at a depth of 2,622 feet bpl.
0300 The drilling contractor is reaming the pilot hole at a depth of 2,629 feet bpl.
0400 The drilling contractor is reaming the pilot hole at a depth of 2,636 feet bpl.
0500 The drilling contractor is reaming the pilot hole at a depth of 2,643 feet bpl.
0600 The drilling contractor is reaming the pilot hole at a depth of 2,648 feet bpl.
0630 The drilling contractor is reaming the pilot hole at a depth of 2,652 feet bpl.
0700 The drilling contractor is reaming the pilot hole at a depth of 2,657 feet bpl.



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Daily Construction Log

Date: January 13, 2012

Project: FPL Turkey Point EW

Contractor: Layne Christensen Company

Starting Depth: 2,657 feet bpl

Weather Day: Cloudy, Warm

Weather Night: Cloudy, Mild

Activity: Reaming

FDEP UIC Permit #: 0293962-001-UC

Well No.: EW-1

Bit Diameter: 28-inch

Ending Depth: 2,793 feet bpl

Recorded By: David McNabb/Marty Clasen

CONSTRUCTION ACTIVITIES

- 0700 Yesterday, the drilling contractor reamed the pilot hole from the depths of 2,519 feet to 2,657 feet below pad level (bpl).
- 0740 The drilling contractor is reaming the pilot hole at a depth of 2,659 feet bpl.
- 0810 The kelly is down at the depth of 2,661 feet bpl. The drilling contractor is circulating the borehole clean in preparation for a deviation survey.
- 0825 The drilling contractor trips inside the drill pipe with the deviation survey tool to a depth of 2,610 feet bpl.
- 0845 The deviation survey is complete and the survey result is 0.4 degrees.
- 0905 The drilling contractor makes a drill pipe connection and resumes reaming the pilot hole from the depth of 2,661 feet bpl.
- 1020 The drilling contractor is reaming the pilot hole at a depth of 2,669 feet bpl.
- 1130 The drilling contractor is reaming the pilot hole at a depth of 2,677 feet bpl.
- 1300 The drilling contractor is reaming the pilot hole at a depth of 2,688 feet bpl.
- 1405 The drilling contractor is reaming the pilot hole at a depth of 2,696 feet bpl.
- 1510 The drilling contractor is reaming the pilot hole at a depth of 2,701 feet bpl.
- 1535 The kelly is down at the depth of 2,707 feet bpl. The drilling contractor is circulating the borehole clean in preparation for a deviation survey.
- 1555 The drilling contractor trips inside the drill pipe with the deviation survey tool to a depth of 2,670 feet bpl.
- 1615 The deviation survey is complete and the survey result is 0.3 degrees.
- 1625 The drilling contractor makes a drill pipe connection and resumes reaming the pilot hole from the depth of 2,707 feet bpl.
- 1750 The drilling contractor is reaming the pilot hole at a depth of 2,713 feet bpl.
- 1900 The drilling contractor is reaming the pilot hole at a depth of 2,721 feet bpl.
- 2030 The drilling contractor is reaming the pilot hole at a depth of 2,731 feet bpl.
- 2137 The drilling contractor is reaming the pilot hole at a depth of 2,740 feet bpl.
- 2300 The drilling contractor is reaming the pilot hole at a depth of 2,749 feet bpl.
- 2350 The kelly is down at the depth of 2,752 feet bpl. The drilling contractor is circulating the borehole clean in preparation for a deviation survey.



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- 0000 The drilling contractor trips inside the drill pipe with the deviation survey tool to a depth of 2,730 feet bpl.
- 0030 The deviation survey is complete and the survey result is 0.3 degrees.
- 0135 The drilling contractor is reaming the pilot hole at a depth of 2,754 feet bpl.
- 0240 The drilling contractor is reaming the pilot hole at a depth of 2,762 feet bpl.
- 0410 The drilling contractor is reaming the pilot hole at a depth of 2,773 feet bpl.
- 0530 The drilling contractor is reaming the pilot hole at a depth of 2,783 feet bpl.
- 0600 The drilling contractor is reaming the pilot hole at a depth of 2,786 feet bpl.
- 0700 The drilling contractor is reaming the pilot hole at a depth of 2,793 feet bpl.



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Daily Construction Log

Date: January 14, 2012

Project: FPL Turkey Point EW

Contractor: Layne Christensen Company

Starting Depth: 2,793 feet bpl

Weather Day: Partly Cloudy, Cool

Weather Night: Clear, Cold

Activity: Reaming

FDEP UIC Permit #: 0293962-001-UC

Well No.: EW-1

Bit Diameter: 28-inch

Ending Depth: 2,886 feet bpl

Recorded By: David McNabb/Marty Clasen

CONSTRUCTION ACTIVITIES

- 0700 Yesterday, the drilling contractor reamed the pilot hole from the depths of 2,657 feet to 2,793 feet below pad level (bpl).
- 0730 The kelly is down at the depth of 2,795 feet bpl. The drilling contractor is circulating the borehole clean in preparation for a deviation survey.
- 0745 The drilling contractor trips inside the drill pipe with the deviation survey tool to a depth of 2,790 feet bpl.
- 0810 The deviation survey is complete and the survey result is 0.4 degrees.
- 0920 The drilling contractor is reaming the pilot hole at a depth of 2,802 feet bpl.
- 1120 The drilling contractor is reaming the pilot hole at a depth of 2,812 feet bpl.
- 1230 The drilling contractor is reaming the pilot hole at a depth of 2,817 feet bpl. The formation is hard and the penetration rate has decreased.
- 1400 The drilling contractor is reaming the pilot hole at a depth of 2,825 feet bpl.
- 1500 The drilling contractor is reaming the pilot hole at a depth of 2,832 feet bpl.
- 1600 The drilling contractor is reaming the pilot hole at a depth of 2,838 feet bpl.
- 1630 The kelly is down at the depth of 2,841 feet bpl. The drilling contractor is circulating the borehole clean before making a connection.
- 1650 The drilling contractor has made a connection and has resumed reaming.
- 1735 The drilling contractor is reaming the pilot hole at a depth of 2,844 feet bpl.
- 1800 The drilling contractor is reaming the pilot hole at a depth of 2,846 feet bpl.
- 1950 The drilling contractor is reaming the pilot hole at a depth of 2,851 feet bpl.
- 2100 The drilling contractor is tightening the packing on the top head drive to repair a minor water leak.
- 2150 The drilling contractor is reaming the pilot hole at a depth of 2,853 feet bpl.
- 2305 The drilling contractor is reaming the pilot hole at a depth of 2,858 feet bpl.
- 0030 The drilling contractor is reaming the pilot hole at a depth of 2,863 feet bpl.
- 0125 The drilling contractor is reaming the pilot hole at a depth of 2,866 feet bpl.
- 0300 The drilling contractor is reaming the pilot hole at a depth of 2,873 feet bpl.
- 0430 The drilling contractor is reaming the pilot hole at a depth of 2,882 feet bpl.
- 0520 The kelly is down at the depth of 2,886 feet bpl. The drilling contractor is circulating the borehole clean in preparation for a deviation survey at a depth of 2,850 feet bpl.



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- 0615 The deviation survey is complete and the survey result is 0.3 degrees.
- 0700 The drilling contractor has made a connection and has resumed reaming at a depth of 2,886 feet bpl.



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Daily Construction Log

Date: January 15, 2012
Project: FPL Turkey Point EW
Contractor: Layne Christensen Company
Starting Depth: 2,886 feet bpl
Weather Day: Sunny, Cool
Weather Night: Clear, Cold
Activity: Reaming, Installing Straddle Packers

FDEP UIC Permit #: 0293962-001-UC
Well No.: EW-1
Bit Diameter: 28-inch
Ending Depth: 2,900 feet bpl
Recorded By: David McNabb/Marty Clasen

CONSTRUCTION ACTIVITIES

- 0700 Yesterday, the drilling contractor reamed the pilot hole from the depths of 2,793 to 2,886 feet below pad level (bpl). They are currently reaming at a depth of 2,886 feet bpl.
- 0830 The drilling contractor is reaming the pilot hole at a depth of 2,891 feet bpl.
- 0925 The drilling contractor has completed reaming the pilot hole at a depth of 2,900 feet bpl. They are currently circulating the hole and will then begin to trip out of the hole with the drill bit.
- 1110 The drilling contractor is the process of tripping out of hole with the drill bit.
- 1200 The drilling contractor continues to trip out of hole with the drill bit.
- 1300 The drilling contractor continues to trip out of hole with the drill bit.
- 1400 The drilling contractor continues to trip out of hole with the drill bit.
- 1505 The drilling contractor used 2 bags of salt to kill the well and has resumed tripping the drill bit out of the hole.
- 1610 The drilling contractor continues to trip out of hole with the drill bit.
- 1710 The drill bit has been brought to surface and is on the rig floor.
- 1730 The drill bit has been removed from the rig floor in preparation for geophysical logging.
- 1740 The drilling contractor has used 1 bag of salt to kill the well. The geophysical logging subcontractor (All Webbs Enterprises, Inc.) has arrived on site to perform geophysical logging (caliper and gamma ray).
- 1900 The geophysical logger has started the caliper log.
- 2100 The geophysical logger completed the caliper log from 1535 to 2900 feet bpl.
- 2130 The geophysical logger is running the gamma log.
- 2215 The geophysical logger completed the gamma log. The drilling contractor has begun to install the straddle packer assembly in the borehole. The straddle packer assembly will be set to test the interval from 2,552 to 2,574 feet bpl.
- 2330 The drilling contractor continues to install the straddle packer assembly.
- 0100 The drilling contractor continues to install the straddle packer assembly.
- 0230 The drilling contractor continues to install the straddle packer assembly.
- 0400 The drilling contractor continues to install the straddle packer assembly.
- 0530 The drilling contractor continues to install the straddle packer assembly.
- 0630 The drilling contractor continues to install the straddle packer assembly.



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0700 The drilling contractor continues to install the straddle packer assembly.



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Daily Construction Log

Date: January 16, 2012
Project: FPL Turkey Point EW
Contractor: Layne Christensen Company
Starting Depth: 2,900 feet bpl
Weather Day: Sunny, Cool
Weather Night: Clear, Cool
Activity: Preparing for Packer Testing

FDEP UIC Permit #: 0293962-001-UC
Well No.: EW-1
Bit Diameter: NA
Ending Depth: 2,900 feet bpl
Recorded By: Deborah Daigle/Sally Durall

CONSTRUCTION ACTIVITIES

- 0700 Yesterday, the drilling contractor completed reaming the pilot hole to a depth of 2,900 feet below pad level (bpl). They are currently installing the straddle packer assembly to test the interval from 2,552 to 2,574 feet bpl.
- 0800 The drilling contractor continues to install the straddle packer assembly.
- 0900 The drilling contractor continues to install the straddle packer assembly.
- 0950 The drilling contractor has installed the straddle packer assembly to the target depth and will now begin inflating the straddle packers.
- 1100 The drilling contractor continues to inflate the straddle packers.
- 1115 The drilling contractor has inflated the straddle packers to 420 pounds per square inch (psi) and will run the air line for development.
- 1200 The drilling contractor has installed the air line.
- 1400 The drilling contractor starts the air compressor and begins conditioning the packer test interval.
- 1401 The rate of fluid production appears high and the annular water level is observed to be dropping approximately two feet, indicating that the packer is not sealing properly against the borehole. The drilling contractor increases the pressure on the packers to 500 psi.
- 1410 The drilling contractor resumes conditioning the test interval. The annular water level is again observed to drop approximately two feet.
- 1430 The drilling contractor increases the pressure on the packers to 550 psi and resumes conditioning the test interval. The annular water level is again observed to drop approximately two feet.
- 1515 The drilling contractor will move the straddle packers to the depth interval between 2,634 and 2,656 feet bpl and attempt to isolate the test interval with the straddle packers.
- 1530 The drilling contractor begins removing the air line from the drill pipe, and will lower the straddle packers to the new depth interval.
- 1630 The drilling contractor continues to lower the straddle packer assembly.
- 1755 The drilling contractor has installed the straddle packer assembly to the target depth and has begun inflating the packers.
- 1850 The packers have been inflated to 450 psi.



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- 1920 Begin conditioning the test interval. The annulus water level immediately drops approximately 4 feet. Stop conditioning the test interval and increase the pressure on the straddle packers to 500 psi.
- 1950 Resume conditioning the test interval. The annulus water level immediately drops approximately 4 feet. Stop conditioning the test interval. It appears that the packers are not sealing off the testing interval.
- 2100 The drilling contractor begins to deflate the packers and trip out of the drill pipe with the air line.
- 2325 The drilling contractor begins to relocate the straddle packers to test the interval from 2,844 feet to 2,866 feet bpl.
- 0100 The drilling contractor continues relocating the packers.
- 0150 The drilling rig is currently down due to an electrical problem.
- 0330 The drilling rig remains out of service due to an electrical problem.
- 0415 The drilling contractor is killing the well with salt. The drilling rig remains out of service due to an electrical problem.
- 0600 The drilling rig remains out of service due to an electrical problem.
- 0700 The drilling rig remains out of service due to an electrical problem.



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Daily Construction Log

Date: January 17, 2012
Project: FPL Turkey Point EW
Contractor: Layne Christensen Company
Starting Depth: 2,900 feet bpl
Weather Day: Sunny, Warm
Weather Night: Clear, Cool
Activity: Preparing for Packer Testing

FDEP UIC Permit #: 0293962-001-UC
Well No.: EW-1
Bit Diameter: NA
Ending Depth: 2,900 feet bpl
Recorded By: Deborah Daigle/Sally Durall

CONSTRUCTION ACTIVITIES

- 0700 Yesterday, the drilling contractor installed the straddle packers over the intervals from 2,552 to 2,574 feet below pad level (bpl) and 2,634 to 2,656 feet bpl. At both test intervals the straddle packers were unable to isolate the test interval successfully. The drilling contractor was moving the straddle packers to test the interval from 2,844 to 2,866 feet bpl when the rig was shut down due to an electrical problem. The drilling contractor is currently working to correct the electrical problem.
- 0730 The drilling contractor has corrected the electrical problem and begins lowering the straddle packer assembly to the test interval from 2,844 to 2,866 feet bpl.
- 0830 The drilling contractor continues to lower the straddle packer assembly.
- 0930 The drilling contractor continues to lower the straddle packer assembly.
- 1040 The straddle packer assembly is at the target depth. The drilling contractor prepares to inflate the packers.
- 1055 The drilling contractor begins inflating the packers.
- 1154 The drilling contractor has completed inflating the packers to 450 pounds per square inch (psi) and will run the air line for development.
- 1215 The drilling contractor has run the air line to condition the straddle packer test interval.
- 1243 The drilling contractor begins conditioning the straddle packer test interval.
- 1244 The production rate from the test interval appears high and the annular water level is observed to be dropping approximately two feet, indicating that the packer is not sealing properly against the borehole. The drilling contractor increases the pressure on the packers to 500 psi.
- 1305 The drilling contractor restarts air-lift development. The annular water level is again observed to drop approximately 1.5 feet.
- 1320 The drilling contractor increases the pressure on the packers to 550 psi and resumes conditioning the test interval. The annular water level is observed to drop approximately 0.5 feet, indicating that the test interval has not been isolated.
- 1415 The drilling contractor increases the pressure on the packers to 660 psi and resumes conditioning the test interval. The annular water level drops approximately 0.1 feet and then stabilizes, however the pumping rate is at approximately 150 gallons per minute. The test is stopped due to the high pumping rate.



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- 1700 The drilling contractor is bleeding the air from the packers. The packers will be moved to a new test depth interval of 2,480 to 2,502 feet bpl.
- 1800 The drilling contractor continues to bleed off the packers.
- 1845 The drilling contractor trips the air line out of the drill pipe.
- 1915 The drilling rig is down and the drilling contractor is attempting repair.
- 2100 The drilling rig is down and the drilling contractor is waiting on a technician to arrive for repair.
- 0000 The drilling contractor is performing general site maintenance while waiting on the technician arrive for rig repair.
- 0300 The drilling contractor is performing general site maintenance while waiting on the technician arrive for rig repair.
- 0600 The drilling contractor is performing general site maintenance while waiting on the technician arrive for rig repair.
- 0700 The drilling contractor is waiting on the technician arrive for rig repair.



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Daily Construction Log

Date: January 18, 2012

Project: FPL Turkey Point EW

Contractor: Layne Christensen Company

Starting Depth: 2,900 feet bpl

Weather Day: Sunny, Warm

Weather Night: Clear, Cool

Activity: Preparing to Packer Test

FDEP UIC Permit #: 0293962-001-UC

Well No.: EW-1

Bit Diameter: NA

Ending Depth: 2,900 feet bpl

Recorded By: Deborah Daigle/Sally Durall

CONSTRUCTION ACTIVITIES

- 0700 Yesterday, the drilling contractor installed the straddle packers over the intervals from 2,844 to 2,866 feet below pad level (bpl). The straddle packers were unable to isolate the test interval successfully. The drilling contractor was preparing to move the straddle packers to test the interval from 2,480 feet to 2,502 feet bpl when the rig was shut down due to an electrical problem. The drilling contractor is currently working to correct the electrical problem.
- 0800 The drilling contractor is waiting on the technician arrive to address the electrical problem.
- 0900 The drilling contractor is waiting on the technician arrive to address the electrical problem.
- 1000 The drilling contractor is waiting on the technician arrive to address the electrical problem.
- 1100 The drilling contractor is waiting on the technician arrive to address the electrical problem.
- 1200 The drilling contractor is waiting on the technician arrive to address the electrical problem.
- 1300 The drilling contractor is waiting on the technician arrive to address the electrical problem.
- 1400 The drilling contractor is waiting on the technician arrive to address the electrical problem.
- 1500 The drilling contractor is waiting on the technician arrive to address the electrical problem.
- 1600 The drilling contractor is waiting on the technician arrive to address the electrical problem.
- 1800 The drilling contractor is waiting on the technician arrive to address the electrical problem.
- 1910 The technician has arrived on site.
- 2035 The electrical problem has been addressed and the drilling contractor begins to relocate the straddle packers between the depths of 2,480 feet to 2,502 feet bpl.



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- 2225 The straddle packers are located between the depths of 2,480 feet to 2,502 feet bpl and the drilling contractor is preparing to inflate the packers.
- 2250 The drilling contractor begins to inflate the packers.
- 0030 The packers have been inflated to 635 pounds per square inch gauge (psig). The drilling contractor will wait 1 hour to assure the pressure is holding.
- 0120 The drilling contractor trips inside the drill pipe with the airline.
- 0140 Begin conditioning the straddle packer test interval. There is an immediate annulus drawdown of approximately 2 feet which indicates the packers are not fully sealed against the formation. Stop conditioning the test interval.
- 0300 The drilling contractor is performing general site maintenance.
- 0600 The drilling contractor is performing general site maintenance.
- 0700 The drilling contractor is performing general site maintenance.

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT

F.P.L

Proposed Turkey Point Units 6 and 7

DATE 01-12-12

11771

JOB SITE NAME

FW-1

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THE DAYS

1. Kontextualisation

2. 0

PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
BODICA	BOSIT GULAMOV	X	12		12
V.I	VLAD ISKIMOV	X	12		12
V.M	VICTOR MOISYEV	X	12		12
A.B.	ALMAI BURKHOMOV	X	12		12

MATERIALS USED TODAY

Quantity	Description
	SAFETY MTG:
①	HAZARD COMMUNICATION
②	OXIDIZERS:
③	CHANGE HOUSE HOUSEKEEPING:
	HAND SAFETY: LOADER SAFETY: HIGH PRESS LIMS: PINCH POINT: PPE: H. & P.A.

CONTINUED FROM PAGE 10

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

TIME OF ACTIVITY BY ITEM

[illegible]

DAILY ACCOUNTING OF ACTIVITIES BY ITEM

Item #	Cost Code	Labor Activity	Hours
1	10000	Short Duration Job	
2	11100	Final Mo/Demo	
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	12125	Aquifer Zone Testing	
17	12200	Borehole Abandonment	
18	13050	Production Well Installation	
19	13100	Install Conductor Pipe	
20	13150	Drilling of 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	13525	Install Pack The Well	
29	13600	Install Annular Seal	
30	13650	Water Watching	
31	14050	Well Development Air Lift and Swab	
32	14100	Disposal of Sludges & Cuttings	
33	14150	Furnish & Install Test Pump and Discharge	
34	14200	Development Pumping	
35	14250	Test Pumping	
36	14300	Installation and Commissioning	
37	18050	Site Activities Mo/Demo	
38	19100	Shop	
39	19150	Administration	
40	19550	Other Activities Sandby	
41	19600	Training for Lost/Unknown Tooling	
42	19650	Plunge Order Activities	
43	88000	Equipment Repairs	
44	90170	Damages	
45	90200	Job Superintendent	
		Lunch	
		TOTAL HOURS	

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

Drill 28" BIT FROM / - 2519' B.P.L - TO - 2525' B.P.L
 RUN SURVE: 2490' @ .3. MAKE CONNECTION: START
 Drill FROM / - 2525' B.P.L - TO - 2570' B.P.L. RUN SURVE -
 2550' @ .4 - MAKE CONNECTION: GO BACK Drill FROM /
 - 2570' B.P.L - TO - 2585' B.P.L.

M. A. M. M.

07/02/11

Direct: Narrative

PAYROLL

Supervisor's Signature _____

• **12 m**

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT **FPL**

Proposed Turkey Point Units 6 and 7

DATE 1-12-2012

1177

JOB SITE NAME EW-1

~~Docket Nos. 52-040 and 52-041~~
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Thurs. nights

JOB SITE LOCATION Turkey Point

PERSONNEL EMPLOYED TODAY

Tray Assignment	Employee / Cell Number	Available? (X)	Settle Hours	Uptown Hours	total Hours
Drill MR	Michael A Ramirez	X	12		12
JN	Juan Nieto	X	12		12
JJ	James McDonnell	X	12		12
JJ	Justin Yeastons	X	12		12

EQUIPMENT DEPLOYED TODAY

Description		Unit #	Status
Working	WB	Mobilization	MB
Standby	SB	Demobilization	DM
Down In Shop	DS	Available in Yard	AY
Down on Site	OS	Available on Job	AV

DAILY ACCOUNTING OF ACTIVITIES BY ITEM

[illegible]

陈子昂《感遇》诗

Quantity	Description
	Safety Meetings
1)	Housekeeping / Change House Upkeep
2)	Lifting
	PPE, Pinch Points, Ladder safety, Slip-trip-Fall Bad weather.

TIME OF ACTIVITY OF THE...

[illegible]

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

Continue drilling w/ 28" bit from 2585' bpl to 2615' bpl. Make
Connection. Continue drilling w/ 28" bit from 2615' bpl to 2653' bpl.
Scrub front of rig Pad. Scrub clean floor & handrails. Lightning break
from 9:30 - 11:30 am. Clean parts & change house. Take out Trash.

W. R. D.

Parent's Signature _____

PAYROLL

100

КАРТУШКИ: БУДУЩЕ

100

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT F.P.L.

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DATE 01-13-2012
FRI DAYS

JOB# 11221

— 655 —

PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
DALLAN	BOSI + GULOMOV	X	12		12
V.I	VLAN ISHIMOV	X	12		12
A.B	AKMAL BURKHOMOV	X	12		12
V.M	VICTOR MOISYEV.	X	12		12

MATERIALS USED TODAY

Number	Description
	SAFETY MSG:
①	BACKHOE/LOADERS:
②	IONIZING RADIATIONS:
	HAND SAFETY: PINCH POINT!
	HIGH PRESS LINES!

ACQUITTALS DETAINED 10 DAYS

[illegible]

TIME OF ACTIVITY BY ITEM

[illegible]**JOB SITE LOCATION**

(MAY ACCOUNTING) OF ACCOUNTING

Item #	Cost Code	Labor Activity	Hours
1	10000	Short Duration Job	
2	11100	And to 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 & Drift Pad	
14	12050	Log 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 Rugs	
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 Monitoring	
31	14050	Well Development & R/LT 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	Identification and Classification	
37	15000	Office Activities Mob/Demob	
38	19100	Stop	
39	19150	Identification	
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	90180	Job Superintendent	
		Lunch	
		TOTAL HOURS	

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

Drill 28' BIT; FROM /- 2653' BPL - TO - 2660' BPL.
RUN SURVE - 2610' @ .4 - MAKE CONNECTION; CONTINUE
Drill FROM /- 2660' BPL - TO - 2705' BPL. RUN SURVE
~~27~~ 2670' @ .3 - MAKE CONNECTION; CONTINUE DRILL
FROM /- 2705' BPL - TO - ~~2710~~ 2716' BPL.

01-13-12

Client's Signature

PAYROLL

பெரியாறு: கி. பி. 1998



Proposed Turkey Point Units 6 and 7
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JOB# 1177

JOBSITE LOCATION Tunkia, Punjab

1. **प्रश्नोत्तर**

EQUIPMENT DEPLOYED TODAY

DAILY ACCOUNTING OF ACTIVITIES BY ITEM #

Wavelength	mm	Light Source	Filter
Yellow-Py	200	Quartz-Halogen	None
Infrared-Silica	200	Quartz-Halogen	None
Quartz-Halogen	200	Quartz-Halogen	None

MATERIALS USED TODAY

TIME OF ACTIVITY BY ITEM #

[illegible]

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

continue drilling w/ 28" bit from 2716' bpl to 2751' bpl. Run Survey
Survey @ 2730' bpl got 0.3°. Make connection Continue Drilling w/ 28"
bit from 2751' bpl to 2789' bpl.

Repair Silt fence, run Trash, House keeping, Clean out old lockers/change house

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 & Driv Pad	
14	12050	Test Hole Drilling	
15	12100	Geophysical Logging & Other Testing	
16	12150	Aquifer Zone Testing	
17	12200	Borehole Abandonment	
18	13050	Production Well Installation	
19	13100	Install Conductor Pipe	
20	13150	Drill Hole Casing	
21	13200	Geophysical Logging & Other Testing	
22	13250	Aquifer Zone Testing	
23	13300	Borehole Abandonment/Convent. Plug	
24	13350	Reaming	
25	13400	Under Reaming	
26	13450	Install Casing	
27	13500	Install Screen	
28	13550	Gravel Pack The Well	
29	13600	Install Annular Seal	
30	13650	Water Washing	
31	14050	Well Development Air Lift and Swab	
32	14100	Disposal of Fluids & Cuttings	
33	14150	Furnish & Install Test Pump and Discharge	
34	14200	Development Pumping	
35	14250	Test Pumping	
36	14300	Disinfection and Chlorination	
37	19050	Onsite Activities Mob/Demob	
38	19100	Shop	
39	19150	Administration	
40	19550	Other Activities Standby	
41	19600	Fishing for Lost/Broken Tooling	
42	19650	Change Order Activities	
43	98000	Equipment Repairs	
44	90170	Damages	
45	90200	Job Superintendent	
		Lunch	
		TOTAL HOURS	

1. Main Body's Structure
1.1 Main Body's Structure

Client's Signature

PAYROLL

11 million

Separation of Synthesis

11

Estimado

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

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1-14-2012

SAT. 10/15/05

108# 1177

Truckee Point

CLIENT **FBI**

JOB SITE NAME Ew-1

PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
Drill MOR	Michael A. Ramirez	X	12		12
JN	Juan Nieto	X	12		12
John	James McDonnell	X	12		12
JY	Justin Yeomans	X	12		12

EQUIPMENT DEPLOYED TODAY

Description		Unit #	Status
Working	WK	Mobilization	MB
Standby	SD	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	Waste 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	Prep of Surface Casing	
13	11500	Install Roadway & Drill Pad	
14	12050	Test Hole Drilling	
15	12100	Geophysical Logging & Other Testing	
16	12150	Flowmeter Zone Testing	
17	12200	Worthless Abandonment	
18	12250	Production Well Installation	
19	13100	Install Conductor Pipe	
20	13150	Install Casing	
21	13200	Geophysical Logging & Other Testing	
22	13250	Flowmeter Zone Testing	
23	13300	Worthless 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 Watchdog	
31	14050	Well Development Air Lift and Swab	
32	14100	Disposal of Huds & Cuttings	
33	14150	Furnish & Install Test Pump and Discharge	
34	14200	Development Pumping	
35	14250	Test Pumping	
36	14300	Hydronection and Circulation	
37	19050	Mobile Activities Mob/Demob	
38	19100	Shop	
39	19150	Administration	
40	19550	Other Activities Standby	
41	19600	Waiting for Lost/Broken Tooling	
42	19650	Change Order Activities	
43	19700	Equipment Repairs	
44	90170	Damages	
45	90200	Job Superintendent	
		Month	
		TOTAL HOURS	

MATERIALS USED TODAY

1) Job Hazard Analysis
 2) Visual Hazard Identification

PPE, fall protection, wildlife, loader safety, electrical hazard
 eye protection, hand tool safety.

TIME OF ACTIVITY BY ITEM NUMBER

[illegible]

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

Continued Dr. Hays w/ 28" bit from 2847' bpl to 2886 bpl

Groose 3 light Wash Pipe / Packing

Ran Deviation Survey at 2850' br got 0.3°

Housekeeping, Sweep/insp trailer, McC's, Parts & Change house, Run Trash

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

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DATE _____

1/15/12

JOB #

1177

JOBSITE NAME

EW-1

JOB SITE LOCATION

7.2

FOREIGN EMPLOYED CUBAN

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
DRILLER	DANNY KEELEY	X	12		12
M	DAN YOUNG SR	X	12		12
GH	GEORGE HAGA	X	12		12
VI	VLAD ISHANDV	X	12		12
A.P.	ANDREY POPOV	X	12		12

1997年12月10日

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

DAILY ACCOUNTING OF ACTIVITIES BY ITEM

Item #	Cost Code	Labor Activity	Hours
1	10000	Short Duration Job	
2	11100	Install Mob/Demob	
3	11150	Job Preparation	
4	11200	Install Meding	
5	0005	Training - Overhead	
6	0006	Shop - Overhead	
7	0007	Maintenance - Overhead	
8	11250	Training - Job Chargeable	
9	11300	Site Clean up	
10	11350	Install Sound Walls	
11	11400	Install Decon Pad	
12	11450	Install Surface Coating	
13	11500	Install Roadway & DM Pad	
14	12050	Test Hole Drilling	
15	12100	Geophysical Logging & Other Testing	
16	12150	Aquifer Zone Testing	
17	12200	Marche Abandonment	
18	13050	Production Well Installation	
19	13100	Install Conductor Pipe	
20	13150	Perforations	
21	13200	Geophysical Logging & Other Testing	
22	13250	Aquifer Zone Testing	
23	13300	Marche Abandonment / Cement Plugs	
24	13350	Teaming	
25	13400	Under Reaming	
26	13450	Install Casing	
27	13500	Install Screen	
28	13550	Gravel Pack The Well	
29	13600	Install Annular Seal	
30	13650	Water Watching	
31	14050	Well Development Air Lift and Swab	
32	14100	Disposal of Fluids & Cuttings	
33	14150	Turnish & Install Test Pump and Discharge	
34	14200	Development Pumping	
35	14250	Test Pumping	
36	14300	Disinfection and Chlorination	
37	19050	Expense 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	90000	Equipment Repairs	
44	90170	Damages	
45	90200	Job Superintendent	
		Lunch	
		TOTAL HOURS	

MATERIALS USED TODAY

Quantity	Description
	SAFETY MEETING
	#1 HIRA
	#2 HAND SIGNALS, TONGS USAGE, TRIPPING OUT STABILIZERS
	PINCH POINTS, LOADER SAFETY, PPE TRIPPING OUT

TIME OF ACTIVITY BY ITEM

[illegible]

COMMENTS - EVENTS - CONDITIONS - CHANGES OTHER INFORMATION

CONTINUE READING 28" BIT FROM 2886 BPL
- 2900' BPL
TOOK WITH STABILIZERS BREAK WITH TONGS
LOG MOLE KILL WELL 2 BAGS SALT

၂၀၁၆ ခုနှစ် ဇူလိုင်လ ၁ ရက်နေ့မှ ၂၀၁၆ ခုနှစ် ဇူလိုင်လ ၁ ရက်နေ့

Client's Signature

PAYROLL

Don't see

94 FEBRUARY 2007

Low

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LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

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DATE 4-6-12
MON DAYS

JOB # 11771
JOB SITE LOCATION T-P

CLIENT FPL
JOBSITE NAME EW2

PERSONNEL EMPLOYED TODAY

Case Assignment	Assignment (Full name)	Per. Benefit (H)	Charge (HRS)	Time Hours	Total Hours
DRIVER	Danny Keeley	X	12		12
CHS	George HAGA	X	12		12
AR	Andrey Popov	X	12		12
VE	VLAD ISAKOV	X	8	1	8
AB	AKMAL BURKHONOV	X	12		12

EQUIPMENT DEPLOYED TODAY

Description		Unit #	Status
T			
Working	WK	Mobilization	WB
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	Dns te Mob/Demob	
3	11150	Job Preparation	
4	11200	Safety Meeting	
5	0005	Training - Overhead	
6	0006	Shop - Overhead	
7	0007	Maintenance - Overhead	
8	11250	Fracking Job Chargeable	
9	11300	Mite Clean up	
10	11350	Install Sound Walls	
11	11400	Install Decan Pad	
12	11450	Install Surface Casing	
13	11500	Install Roadway & Drill Pad	
14	12000	Test Hole Drilling	
15	12100	Geophysical Logging & Other Testing	
16	12150	Aquifer Zone Testing	
17	12200	Boreshole Abandonment	
18	13050	Production Well Installation	
19	13100	Install Conductor Pipe	
20	13150	Drill Bit of Hole	
21	13200	Geophysical Logging & Other Testing	
22	13250	Aquifer Zone Testing	
23	13300	Boreshole 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

Quantity	Description
#1	SAFETY MEETING TRIPPIN PACKERS
#2	IDEA OF SUCCESS - Volvo mechanic changed tire on futuristic car slips, trips & falls, packer hoses on floor, pinch points PPE.

TIME OF ACTIVITY BY ITEM

[illegible]

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

TIM WITH PACKER ^{ON} 2574 BOL
IN FLARE PACKER C AND TRIP IN BEARING
BUMP ONE SLURRY PIT
START AIR DEVELOP @ 2 PM (ANULOK ADVISORY
AND STOP AIR DEVELOP DEFLECT AND MOVE PACKER
Re Investigate packer added 2 ft pup 45 pup single, 1 ft pup. 200 ft pup.
1-16-11 Packer weight AS PACKER SET

Plac/ces Set. 2634 bp 1.
Kw



LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT **FPL**

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DATE

1/16/2012
Monday Night

JOB #

11771

JOB SITE NAME

EW-1

JOB SITE LOCATION

Turkey Point

PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
Drill	Michael A. Requiraz	X	12		12
Tool	Juan Nieto	X	12		12
Drill	James McDermott	X	12		12
Drill	Justin Yeomans	X	12		12
Drill	Victor Moiseyev	X	12		12
Drill	Vlad Isimov	X	12		12

EQUIPMENT AVAILABLE TODAY

Description	Unit #	Status
Working	WM	Available
Standby	SB	Demobilization
Down In Shop	DS	Available in Yard
Down on Site	DM	Available on Job

DAILY ACCOUNTING OF ACTIVITIES BY ITEM

Item #	Cost Code	Labor Activity	Hours
1	10000	Short Duration Job	
2	11100	Onsite Mob/Demob	
3	11150	Job Preparation	
4	11200	Safety Meeting	
5	0005	Training - Overhead	
6	0006	Shop - Overhead	
7	0007	Maintenance - Overhead	
8	11250	Training - Job Chargeable	
9	11300	Site Clean up	
10	11350	Install Sound Walls	
11	11400	Install 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	Abandonment	
18	13050	Production Well Installation	
19	13100	Install Conductor Pipe	
20	13150	Install Casing	
21	13200	Geophysical Logging & Other Testing	
22	13250	Aquifer Zone Testing	
23	13300	Abandonment/Comedification	
24	13350	Grouting	
25	13400	Under Reaming	
26	13450	Install Casing	
27	13500	Install Screen	
28	13550	Gravel Pack The Well	
29	13600	Install Annular Seal	
30	13650	Water Watching	
31	14050	Well Development Air Lift and Swab	
32	14100	Disposal of Cuts & Cuttings	
33	14150	Furnish & Install Top Pump and Discharge	
34	14200	Development Pumping	
35	14250	Test Pumping	
36	14300	Disinfection and Chlorination	
37	15050	Install Access Mob/Demob	
38	15100	Shop	
39	15150	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) electrical Safety
	2) Ideas of Success
	PPE, safe driving, slip/trip/fall, air tool safety, hand tool safety, loader safety.

TIME OF ACTIVITY BY ITEM

From	To	Childs On	Parent
		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	
		AM PM	
		AM PM	

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

PACKER TEST. T.I.H. 3 Sd AIRLINE AIR DEVELOP. BAD SEAT / WAIT ON ORDERS. DEFLATE PACKER TRIP OUT AIRLINE. WOO. MOVING PACKER CAN RIG ERROR. WAIT ON ORDERS. ADDED 2 Bags SALT. RAN TRASH, WORKED ON CAN RIG

[Signature]

Drill Site Supervisor

Date

Client's Signature

PAYROLL

Date

Drill Site Supervisor

Date

[Signature]

— **1**

F.P.L

DATE _____

01-17-2012

JOB #

1127.

JOB SITE NAME

FW -

Proposed Turkey Point Units 6 and 7

~~Docket Nos. 52-040 and 52-041~~

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EQUIPMENT DEPLOYED TODAY

JOB SITE LOCATION

TLP

² <http://www.fishbase.org>

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
Dillon	Boris Gulemov	X	12		12
V.I	VLAD ISHIMOV	X	12		12
V.M	VICTOR MOISYEV	X	8		8
A.B.	ALMAI BURKHONOV	X	8		8

MATERIALS USED TODAY

Quantity	Description
	SAFETY MTG:
①	PARKER TEST:
②	ELECTRICAL SAFETY:
	HAND SAFETY: PINCH POINT: LOADER SAFETY:

TIME OF ACTIVITY BY ITEM

[illegible]

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

CAN RIG ERROR; WAIT ON ORDERS!
SITE CLEAN UP! HOUSEKEEPING!

Item #	Cost Code	Labor Activity	Hours
1	10000	Short Duration Job	
2	11100	Inside Mob/Demo	
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 & Deck Pad	
14	12050	Test Hole Drilling	
15	12100	Geophysical Logging & Other Testing	
16	12150	Aquifer Zone Testing	
17	12200	Onshore Abandonment	
18	13050	Production Well Installation	
19	13100	Install Conduits or Pipe	
20	13150	Install Pig & Hole	
21	13200	Geophysical Logging & Other Testing	
22	13250	Aquifer Zone Testing	
23	13300	Onshore Abandonment/Center Hugs	
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 Well Drilling	
31	14050	Well Development & Lift and Swab	
32	14100	Disposal of Ruds & Cuttings	
33	14150	Furnish & Install Test Pump and Discharge	
34	14200	Development Pumping	
35	14250	Test Pumping	
36	14300	Isolation and Circulation	
37	15050	Mobile Activities Mob/Demo	
38	15100	Shop	
39	15150	Administration	
40	15550	Other Activities Standby	
41	15600	Waiting for Lost/Broken Tooling	
42	15650	Change Order Activities	
43	82000	Equipment Repairs	
44	90170	Damages	
45	90200	Job Superintendent	
		Lunch	
		TOTAL HOURS	

01-17-12

Table

Barriers to Innovation

PAYROLL

Date _____

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21



DATE 1-13-12
WED NIGHT

DATE 21777
BY T. D.

JOB SITE NAME 5-4-1

FROM: HAWAIIAN ISLANDS TODAY

EQUIPMENT DEPLOYED TODAY

DAILY ACCOUNTING OF ACTIVITIES BY ITEM #

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


MATERIALS USED TODAY

[illegible]

COMMENTS - EVENTS CONDITIONS - CHANGES - OTHER INFORMATION

CANRIC ERROR: WAIT ON ORDERS! FIX CANRIC!
 START T.D.H. ~~PACKER~~ ALL DUP AND 4 STD D.P.
 T.I.H. 45' + 3' PACKER SET 2480' - 2502'
 PRESS PACKER 630 PSI: T.I.H. (3) STD AIR LINE: AIR
 DEVELOP: ANNULAR FLUID: MUD/MCT STOP AIR DEVELOP/WAIT ON
 ORDERS!

Item #	Cost Code	Labor Activity	Hours
1	10000	Phone Duration Job	
2	11100	Ons to Mob/Demob	
3	11110	Job Preparation	
4	11200	Safety Meeting	
5	0005	Training - Ovs head	
6	0006	Shop - Overhead	
7	0007	Maintenance - Overhead	
8	11250	Framing Job Chargeable	
9	11300	Site Clean up	
10	11350	Install Sound Walls	
11	11400	Install Decon Pad	
12	11450	Install Surface Casing	
13	11500	Install Roadway & Drill Pad	
14	12000	Test Hole Casing	
15	12100	Geophysical Logging & Other Testing	
16	12150	Aquifer Zone Testing	
17	12200	Pro-hole Abandonment	
18	13050	Production Well Installation	
19	13100	Install Conductor Pipe	
20	13150	Drill Plot Hole	
21	13200	Geophysical Logging & Other Testing	
22	13250	Aquifer Zone Testing	
23	13300	Pro-hole Abandonment / Cement Plugs	
24	13350	Reaming	
25	13400	Under keening	
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 Puds & Cuttings	
33	14150	Furnish & Install Test Pump and Discharge	
34	14200	Development Pumping	
35	14250	Test Pumping	
36	14300	Maintenance and Completion	
37	19050	Offsite Activities Mob/Demob	
38	19100	Shop	
39	19150	Administration	
40	19550	Other Activities Standby	
41	19600	Risking for Lost/Broken Tooling	
42	19650	Change Order Activities	
43	88000	Equipment Repairs	
44	90170	Damages	
45	90200	Job Superintendent	
		TOTAL	
		TOTAL HOURS	


 Robert J. M. Smith
 Attorney General

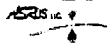
1-15312

Client's Signature

2014年10月1日



Financial assistance

Project:		Florida Power & Light Company Miami-Dade County, Florida Exploratory Well EW-1						MHC			
EW-1 Pad Monitoring Well Water Quality Data											
Northeast Pad Monitoring Well											
(NE-EW PMW)											
Date	Time (hours)	Depth to Water (ft. btoc)	Water Elevation (ft. NAVD 88)	Specific Conductance (umhos/cm)	Chloride (mg/L)	TDS (mg/L)	Temperature (degrees C)	Remarks			
4/21/2011	1108	10.49	-1.61	78,700	32,200	57,000	29.8	Background Sampling			
4/29/2011	1157	10.68	-1.80	80,400	29,900	53,800	30.4				
5/5/2011	1157	11.40	-2.52	81,400	27,500	52,350	31.2				
5/11/2011	1309	11.00	-2.12	76,800	31,600	51,200	29.7				
5/19/2011	0958	10.48	-1.60	72,600	35,600	51,200	29.5				
5/26/2011	1050	10.76	-1.88	71,360	29,500	52,900	29.7				
6/2/2011	1134	10.78	-1.90	71,700	29,000	55,700	29.6				
6/9/2011	1128	10.61	-1.73	69,700	32,300	50,650	29.3				
6/16/2011	0958	10.35	-1.47	69,300	33,000	53,450	29.5				
6/23/2011	1028	10.41	-1.53	69,400	30,600	55,600	29.5				
6/30/2011	0928	10.15	-1.27	70,300	27,600	51,950	29.2				
7/8/2011	1210	9.00	-0.12	72,570	30,100	54,150	29.9				
7/14/2011	1338	9.75	-0.87	76,400	27,200	54,550	29.9				
7/21/2011	1039	9.35	-0.47	72,200	32,600	49,760	29.7				
7/28/2011	1119	9.51	-0.63	71,600	30,200	54,250	29.7				
8/4/2011	1249	9.70	-0.82	64,400	31,500	53,850	27.5				
8/11/2011	1059	9.25	-0.37	73,900	29,500	57,150	29.6				
8/18/2011	1039	9.45	-0.57	71,900	29,400	54,850	30.0				
8/25/2011	1039	9.45	-0.57	69,800	31,300	55,550	29.7				
9/1/2011	1109	9.15	-0.27	71,700	29,500	56,300	29.9				
9/8/2011	1049	9.15	-0.27	70,700	31,400	49,800	30.3				
9/16/2011	1233	9.30	-0.42	5320*	1260*	2668*	27.8				
9/23/2011	1129	9.10	-0.22	72,900	31,200	52,750	30.1				
9/29/2011	1330	9.16	-0.28	11,500*	3,200*	7,010*	27.8				
10/6/2011	1119	9.30	-0.42	72,600	30,000	56,200	30.1				
10/13/2011	1058	10.15	-1.27	75,200	32,500	51,600	30.1				
10/20/2011	1049	8.40	0.48	68,400	29,100	57,450	29.9				
10/27/2011	1109	8.95	-0.07	80,200	27,700	54,950	30.0				
11/3/2011	1049	8.91	-0.03	80,200	31,100	55,700	29.9				
11/10/2011	0958	9.67	-0.79	75,500	28,700	59,600	30.0				
11/17/2011	1058	10.81	-1.93	68,400	34,900	57,500	30.1				
11/25/2011	0939	9.51	-0.63	69,300	26,500	52,750	30.0				
12/1/2011	1138	9.67	-0.79	66,000	29,800	55,200	29.8				
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				

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

MHC

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	1234	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	

ft. btoc: feet below top of casing

TOC: Top of Casing

ft. NAVD 88: North American Vertical Datum of 1988

umhos/cm: micromhos per centimeter

mg/L: milligrams per liter

C: Celsius

Note: TOC elevation is: 8.59 feet NAVD 88

Project:	Florida Power & Light Company Miami-Dade County, Florida Exploratory Well EW-1
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EW-1 Pad Monitoring Well Water Quality Data
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	


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

MHC

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

Date	Time (hours)	Depth to Water (ft. btoc)	Water Elevation (ft. NAVD 88)	Specific Conductance (umhos/cm)	Chloride (mg/L)	TDS (mg/L)	Temperature (degrees C)	Remarks
4/21/2011	1414	10.50	-1.62	72,500	26,400	51,500	30.6	Background Sampling
4/29/2011	1025	10.60	-1.72	77,400	28,300	51,600	29.8	
5/5/2011	0930	11.85	-2.97	75,200	29,000	49,400	28.7	
5/11/2011	1124	16.40	-7.52	78,100	28,300	51,050	31.6	
5/19/2011	1202	15.95	-7.07	73,100	29,700	48,450	32.6	
5/26/2011	1155	11.20	-2.32	66,630	27,800	48,350	29.4	
6/2/2011	1035	11.25	-2.37	68,500	26,000	52,600	29.4	
6/9/2011	1319	11.05	-2.17	65,400	26,300	44,150	29.5	
6/16/2011	1154	10.75	-1.87	64,900	27,000	48,450	29.5	
6/23/2011	1214	10.85	-1.97	65,500	30,400	50,800	29.6	
6/30/2011	1119	10.60	-1.72	68,500	24,300	46,650	29.4	
7/8/2011	1045	9.85	-0.97	64,950	25,600	47,650	29.6	
7/14/2011	1445	10.22	-1.34	69,900	24,800	48,300	29.6	
7/21/2011	1154	10.10	-1.22	67,800	27,400	47,900	29.6	
7/28/2011	1259	10.26	-1.38	67,000	26,600	48,650	27.7	
8/4/2011	1157	10.30	-1.42	68,420	25,600	51,350	27.5	
8/11/2011	1243	9.21	-0.33	67,800	26,400	51,150	29.7	
8/18/2011	1219	10.15	-1.27	66,300	25,400	47,500	29.8	
8/25/2011	1219	10.31	-1.43	66,000	26,900	50,150	29.4	
9/1/2011	1254	9.87	-0.99	65,400	25,700	49,450	29.8	
9/8/2011	1229	9.97	-1.09	66,800	26,300	46,500	29.9	
9/16/2011	1329	10.10	-1.22	64,000	25,700	46,800	28.0	
9/23/2011	1309	9.95	-1.07	66,200	25,800	47,500	29.6	
9/29/2011	1230	9.80	-0.92	64,100	25,400	46,150	27.7	
10/6/2011	1259	9.97	-1.09	76,200	25,800	45,800	29.7	
10/13/2011	1239	10.67	-1.79	69,100	26,100	46,700	29.8	
10/20/2011	1229	9.31	-0.43	64,700	23,800	51,100	29.6	
10/27/2011	1249	10.87	-1.99	75,600	26,500	50,000	29.7	
11/3/2011	1229	10.93	-2.05	75,600	27,700	49,750	29.7	
11/10/2011	1139	10.91	-2.03	73,500	25,500	53,300	29.7	
11/17/2011	1238	11.41	-2.53	63,800	26,900	50,400	29.7	
11/25/2011	1119	10.05	-1.17	65,800	24,900	48,950	29.7	
12/1/2011	1323	11.42	-2.54	65,900	29,600	51,100	29.6	
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	

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

<div> <div>MHC</div> <div> Florida Power & Light Company Turkey Point Exploratory Well EW-1 Deviation Survey Summary </div> <div>  </div> </div>					
Pilot Hole			Reamed Hole		
Date	Depth (feet bpl)	Inclination (degrees)	Date	Depth (feet bpl)	Inclination (degrees)
5/13/2011	90	0.2	5/20/2011	90	0.5
5/14/2011	180	0.4	5/24/2011	180	0.4
6/3/2011	270	0.5	6/6/2011	270	0.0
5/29/2011	345	0.3	6/8/2011	360	0.1
5/29/2011	435	0.4	6/9/2011	450	0.2
5/30/2011	524	0.4	6/10/2011	540	0.3
5/30/2011	614	0.0	6/12/2011	630	0.5
5/31/2011	704	0.2	6/14/2011	720	0.4
5/31/2011	794	0.3	6/15/2011	810	0.4
5/31/2011	884	0.3	6/16/2011	900	0.3
6/1/2011	974	0.5	6/18/2011	990	0.4
6/1/2011	1,064	0.5	7/23/2011	1,080	0.1
7/1/2011	1,154	0.6	7/25/2011	1,170	0.4
7/1/2011	1,244	0.3	7/26/2011	1,260	0.5
7/1/2011	1,334	0.4	7/27/2011	1,350	0.2
7/2/2011	1,424	0.4	7/29/2011	1,440	0.3
7/2/2011	1,514	0.5	8/10/2011	1,530	0.5
7/3/2011	1,604	0.5	12/7/2011	1,590	0.5
8/13/2011	1,664	0.1	12/8/2011	1,650	0.5
8/15/2011	1,724	0.0	12/9/2011	1,710	0.5
8/15/2011	1,784	0.1	12/10/2011	1,770	0.5
8/16/2011	1,844	0.4	12/11/2011	1,830	0.5
8/16/2011	1,904	0.4	12/13/2011	1,890	0.3
8/17/2011	1,964	0.1	12/29/2011	1,950	0.5
8/19/2011	2,024	0.3	1/2/2012	2,010	0.4
8/19/2011	2,084	0.5	1/2/2012	2,070	0.3
8/20/2011	2,144	0.2	1/3/2012	2,130	0.5
8/20/2011	2,204	0.0	1/4/2012	2,190	0.4
8/22/2011	2,264	0.0	1/5/2012	2,250	0.3
8/25/2011	2,324	0.1	1/10/2012	2,310	0.0
8/25/2011	2,384	0.1	1/11/2012	2,370	0.3
8/26/2011	2,444	0.2	1/11/2012	2,430	0.1
8/26/2011	2,504	0.0	1/12/2012	2,490	0.3
8/29/2011	2,564	0.4	1/12/2012	2,550	0.4
8/31/2011	2,624	0.3	1/13/2012	2,610	0.4
9/4/2011	2,684	0.4	1/13/2012	2,670	0.3
9/4/2011	2,744	0.4	1/13/2012	2,730	0.3
9/4/2011	2,804	0.3	1/14/2012	2,790	0.4
9/5/2011	2,864	0.4	1/14/2012	2,850	0.3
9/5/2011	2,924	0.3			
9/5/2011	2,984	0.4			
9/6/2011	3,044	0.1			
9/6/2011	3,104	0.5			
9/7/2011	3,164	0.4			

bpl = below pad level



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

Page 1 of 1
Report Printed: 01/16/12
Submission # 1201000193
Order # 868

Project: Turkey Point Exploratory PT-9
Site Location: FPL Turkey Point, Homestead, FL
Matrix: Water

Sample I.D.: EW-1-PT-9 (2058-2080)
Collected: 01/08/12 22:00
Received: 01/09/12 14:50
Collected by: Client

LABORATORY ANALYSIS REPORT

PARAMETER	RESULT	QC	UNITS	MDL	PQL	METHOD	DATE EXT.	DATE ANALY.	ANALYST
Specific Conductance (Field)(grab)	54800		uS/cm	1.0	3.0	120.1	01/08 22:00	01/08 22:00	Client
pH (field)	7.53		units	0.1	0.3	150.1	01/08 22:00	01/08 22:00	Client
Temperature (Field)	21.7		Degree C	1	3	170.1	01/08 22:00	01/08 22:00	Client
Specific Conductance (grab)	52800		uS/cm	1.0	3.0	120.1	01/11 10:55	01/11 10:55	DGK
Chloride	19500		mg/L	55.00	165.00	300.0	01/10 14:50	01/10 14:50	DGK
Sulfate	2820		mg/L	53.50	160.50	300.0	01/10 14:50	01/10 14:50	DGK
Nitrogen (Ammonia) as N	0.134*		mg/L	0.01	0.03	350.1	01/09 17:31	01/09 17:31	CEB
Nitrogen (Kjeldahl) as "N"	0.18	I	mg/L	0.070	0.210	351.2	01/10 10:00	01/10 13:43	MSG
Total Dissolved Solids (TDS)	35800		mg/L	1.00	3.00	SM 2540C	01/10 11:00	01/11 14:11	TBL

* * Matrix spikes outside recovery limits

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

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


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


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

Pembroke Laboratory
528 Gooch Rd.
Fort Meade, FL 33841

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

Spectrum Laboratories
630 Indian St.
Savannah, GA 31401

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

SUBMISSION # 1201-193				CHAIN-OF CUSTODY RECORD						DUE DATE Requested										
Logged in LIMS by NB CSM assigned _____				<input type="checkbox"/> 1460 W. McNab Road Ft Laud. FL 33309 <input type="checkbox"/> 630 Indian Street Savannah, GA 31401 <input type="checkbox"/> 528 Gooch Road Fort Meade, FL 33841 <input type="checkbox"/> 610 Parrot Ave. N, Okeechobee, FL 34972		Tel: (954) 978-6400 Tel: (912) 238-5050 Tel: (863) 285-8145 Tel: (863) 763-3336		Fax: (954) 978-2233 Fax: (912) 234-4815 Fax: (863) 285-7030 Fax: (863) 763-1544		RUSH RESERVATION #										
				Original-Return w/report		Yellow-Lab File Copy		Pink - Sampler Copy		Rush Surcharges apply										
Report to: (company name) LATNE CHRISTENSEN CO.				Report to Address: 5061 LUCKET RD, FT MYERS, FL 33905																
Invoice to: (company name) LATNE CHRISTENSEN CO				Purchase Order #		Invoice to Address: " " " " "														
Project Name and/or Number TURKEY POINT EXPLORATORY WEL-1 - Packet Test PT-9				Site Location: FPL TURKEY POINT, HONESTEAD, FL																
Project Contact: CRAIG BRUEGER				Phone: 239-275-1029 / 239-275-1025		Fax:				Email: CJ BRUEGER@LATNECHRISTENSEN.COM										
Sampler Name: (printed)				Affiliation:		Sampler Signature														
ORDER # Lab Control Number	Sample ID	Date Sampled	Time Sampled	Matrix DW SW GW WW S SED HW BIO SEA OIL X AIR	Bottle & Pres. Combo Codes	Number of Containers Received & NELAC Letter Suffixes # A-?	Analysis Required						Field Tests							
							CHLORIDE	SULFATE	COPPER	ZINC	CADMIUM	LEAD	MERCURY	TKN	NH3	TEMP °C	PH	COND	CHLOR	
1	2108	EX-1-PT-9 (21058-21080)	1/8/12	2200	GW	SU											21.7	7.53	3300	
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
Special Comments:							Total													
"I waive NELAC protocol" (sign here) >									Signature						Affiliation		Date/Time			
Deliverables:									1 Relinquished by: Sam H. Dwell								1/9/2012 11:00			
									1 Received by: ARGELIO PIERRE								1-9-2012 11:05			
									2 Relinquished by: ARGELIO PIERRE								1-9-12 14:50			
									2 Received by: Y Dwell								1-9-12 14:50			
									3 Relinquished by:											
									3 Received by:											
									www.flenviro.com								COC Page _____ of _____			

Sample Custody & Field Comments		Bottle Type	Preservatives
Temp as received _____ C Custody seals? Y N FIELD TIME: Sampling _____ hrs Pick-Up _____ hrs Misc. Charges _____		A-liter amber B-Bacteria bag/bottle F-500 ml L-liter bottle S4-4 oz soil jar / S8-8 oz soil jar T-250 ml V-40 ml vial W-wide mouth X-other _____ Additional Bottle Types B-brown liter plastic	A-ascorbic acid C-HCL Cu-CuSO4 H-HNO3 M-MCAB Z-zinc acetate Additional Preservatives Hex-Hex Cr Buffer EDA-Ethylene Diamine

**Florida Power & Light Company
Turkey Point
Exploratory Well EW-1
Packer Test Summary Table**

[illegible]

ft. bpl = feet below pad level
gpm = gallons per minutes
umhos/cm - micromhos per centimeter
mg/L = milligrams per liter
TDS = total dissolved solids
TKN = total Kjeldahl nitrogen
U = analyzed for but not detected
* = Matrix spikes outside recovery limit

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

Florida Power & Light Company Turkey Point Exploratory Well EW-1 Daily Kill Material Log				
Date	Depth (feet bpl)	Kill Used	Approximate Volume (gallons)	Approximate Quantity (pounds)
9/22/2011	3228	Salt		4,000
10/9/2011	3220	Salt		6,000
10/10/2011	3220	Salt		6,000
10/12/2011	3227	Salt		4,000
10/23/2011	3234	Salt		6,000
10/29/2011	3211	Salt		6,000
11/7/2011	3223	Salt		6,000
11/19/2011	3232	Salt		4,000
11/28/2011	3232	Salt		4,000
12/6/2011	3232	Salt		6,000
12/14/2011	1960	Salt		8,000
12/15/2011	1960	Salt		8,000
1/5/2012	2270	Salt		8,000
1/9/2012	2270	Salt		2,000
1/15/2012	2900	Salt		6,000
1/16/2012	2900	Salt		4,000
feet bpl = feet below pad level				



X-Y CALIPER GAMMA RAY LOG

Company LAYNE CHRISTENSEN COMPANY
Well TURKEY POINT EW-1
Field FLORIDA CITY
County MIAMI-DADE
State FLORIDA

Company LAYNE CHRISTENSEN COMPANY
Well TURKEY POINT EW-1
Field FLORIDA CITY
County MIAMI-DADE State FLORIDA

Location
FPL TURKEY POINT POWER PLANT
LAT: 25 25'19"N. LONG: 80 20' 08" W
MC NABB HYDROGEOLOGIC CONSULTING, INC

Other Services
NONE

Permanent Datum GL
Log Measured From GL
Drilling Measured From GL

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

Date	15-JAN-2012
Run Number	ELEVEN
Depth Driller	3230'
Depth Logger	2900'
Bottom Logged Interval	2900'
Top Log Interval	CASING
Open Hole Size	28"
Type Fluid	WATER
Density / Viscosity	NA
Max. Recorded Temp.	NA
Estimated Cement Top	SURFACE
Time Well Ready	0000
Time Logger on Bottom	0000
Equipment Number	VA-202
Location	JUIPTER
Recorded By	LEE
Witnessed By	M. CLASEN

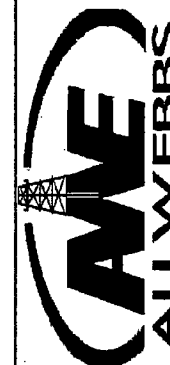
Borehole Record				Borehole Record			
Run Number	Bit	From	To	Run Number	Bit	From	To
ELEVEN	28"	CASING	2900'				
Casing Record		Size	Wgt/Ft	Top		Bottom	
Surface String		34"	.375 W.T	SURFACE		1535'	
Prot. String							
Production String							
Tubing							

<<< Fold Here >>>

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

Comments

Proposed Turkey Point Units 6 and 7
Docket Nos. 52-040 and 52-041
L-2012-055 Enclosure 1 Page 42 of 56

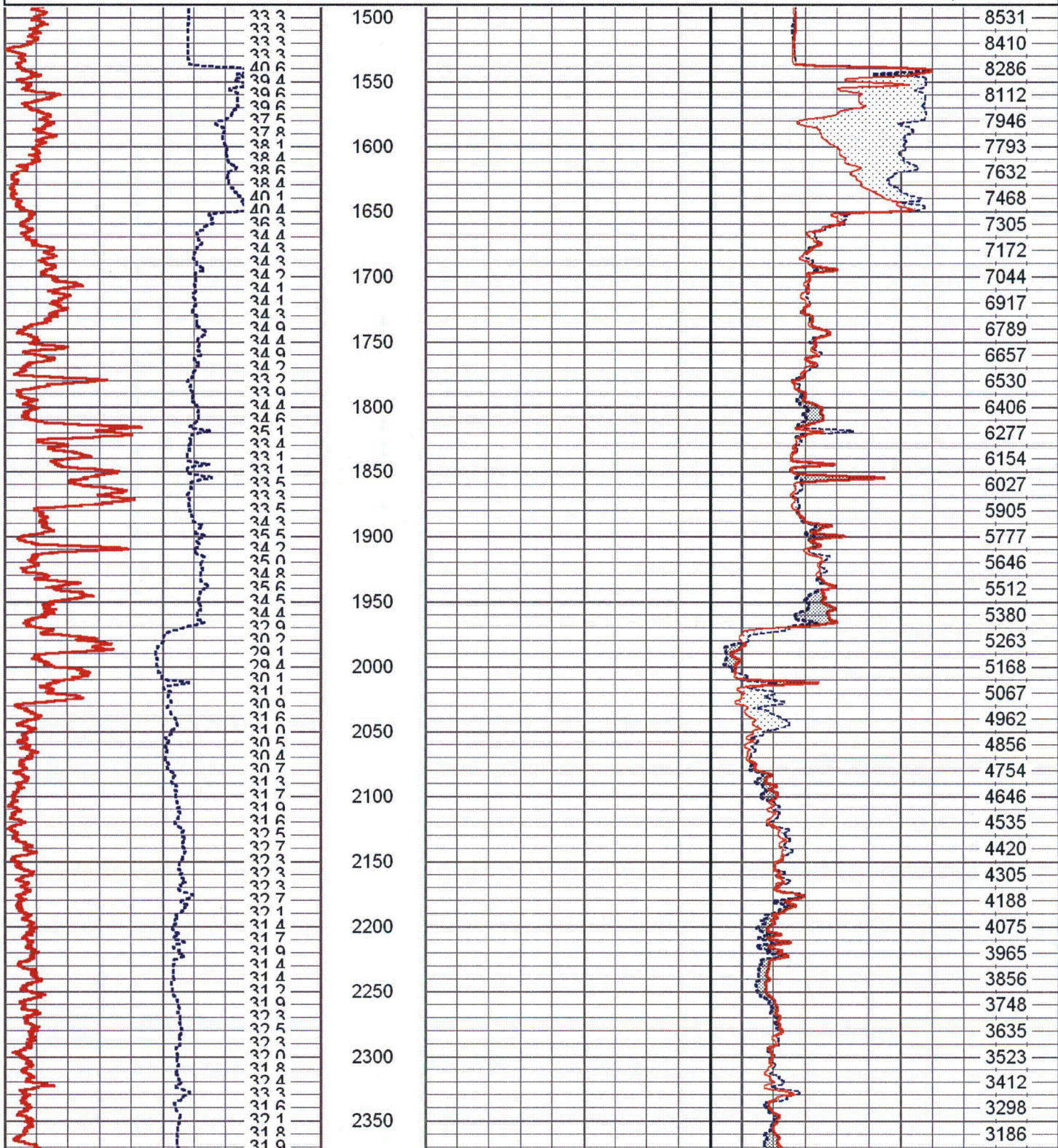


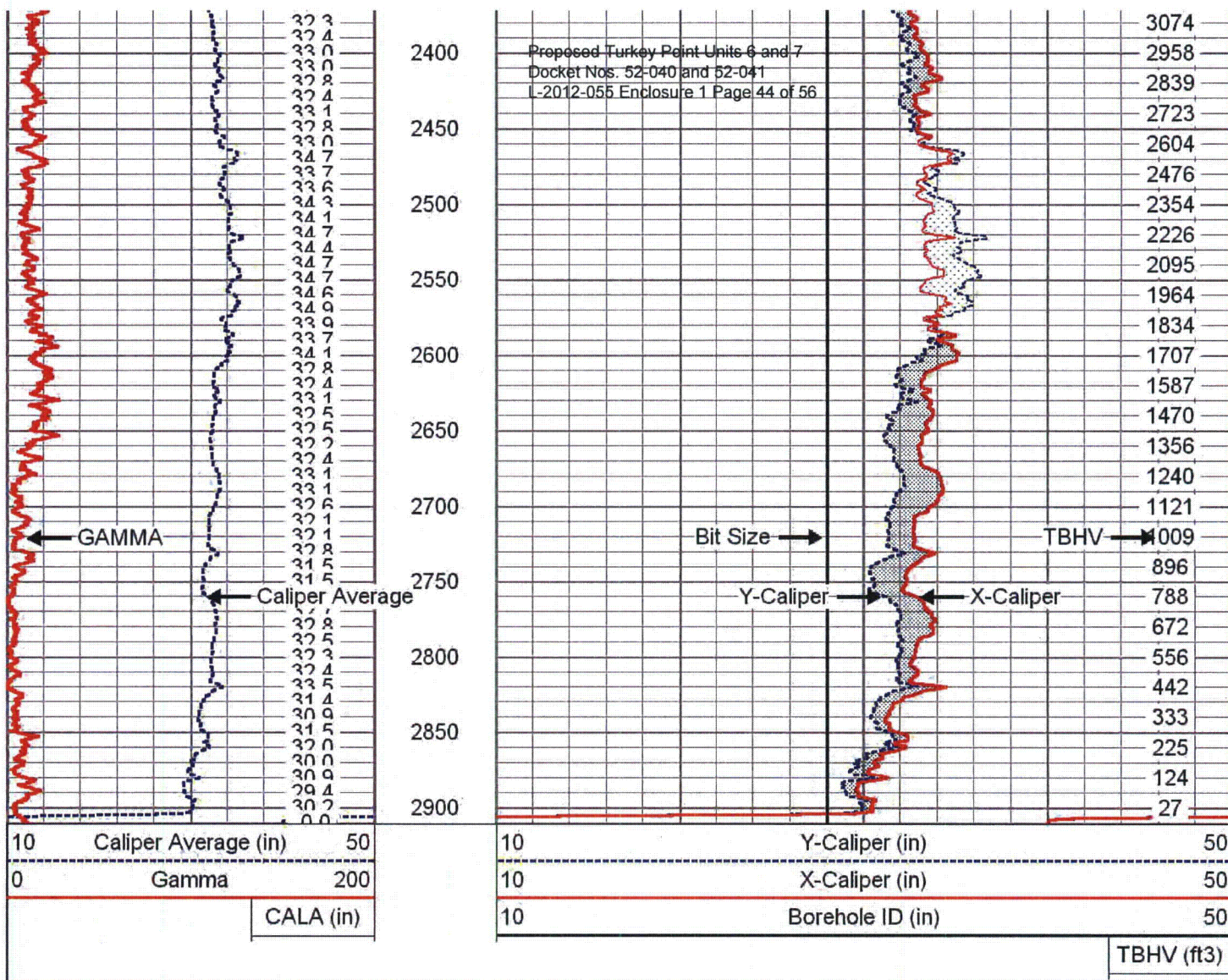
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 Dataset Creation: Sun Jan 15 19:57:57 2012 by Calc Open-Cased 100827
 Charted by: Depth in Feet scaled 1:1200

Proposed Turkey Point Units 6 and 7
 Docket Nos. 52-040 and 52-041
 L-2012-055 Enclosure 1 Page 43 of 56

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0	Gamma	200	10	X-Caliper (in)	50
	CALA (in)		10	Borehole ID (in)	50
					TBHV (ft3)

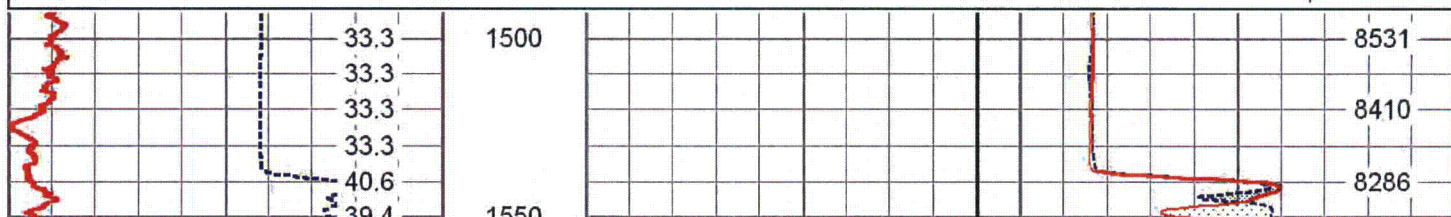


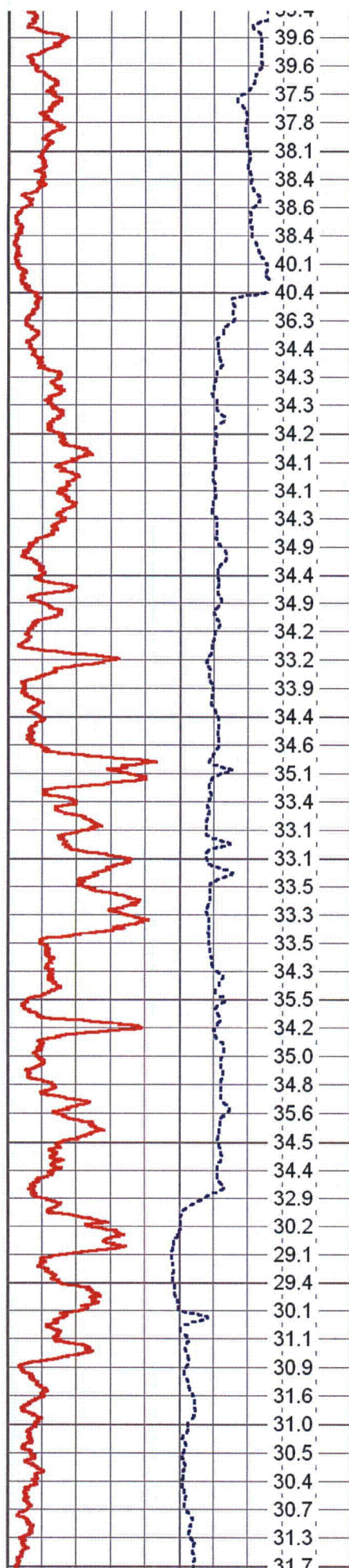


MAIN PASS

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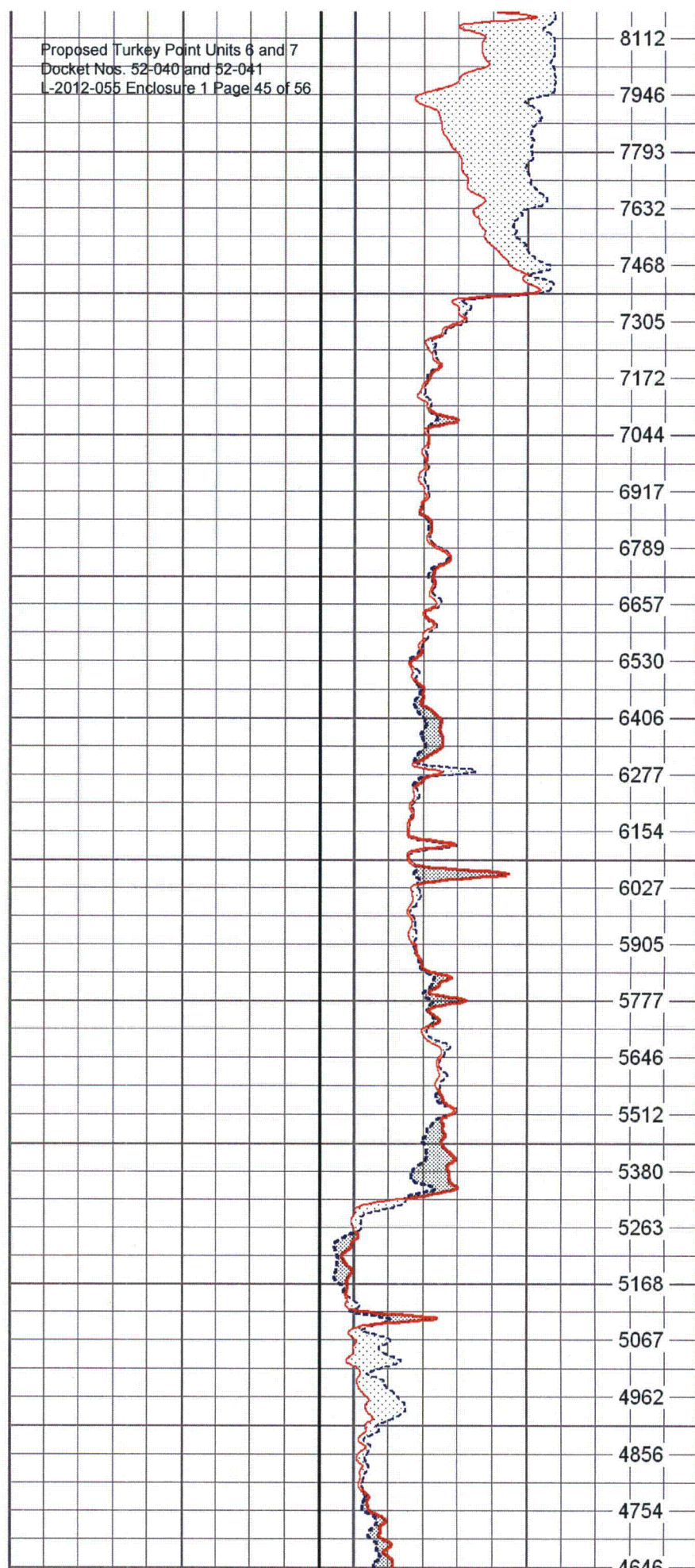
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0	Gamma	200	10	X-Caliper (in)	50
	CALA (in)		10	Borehole ID (in)	50
				TBHV (ft3)	

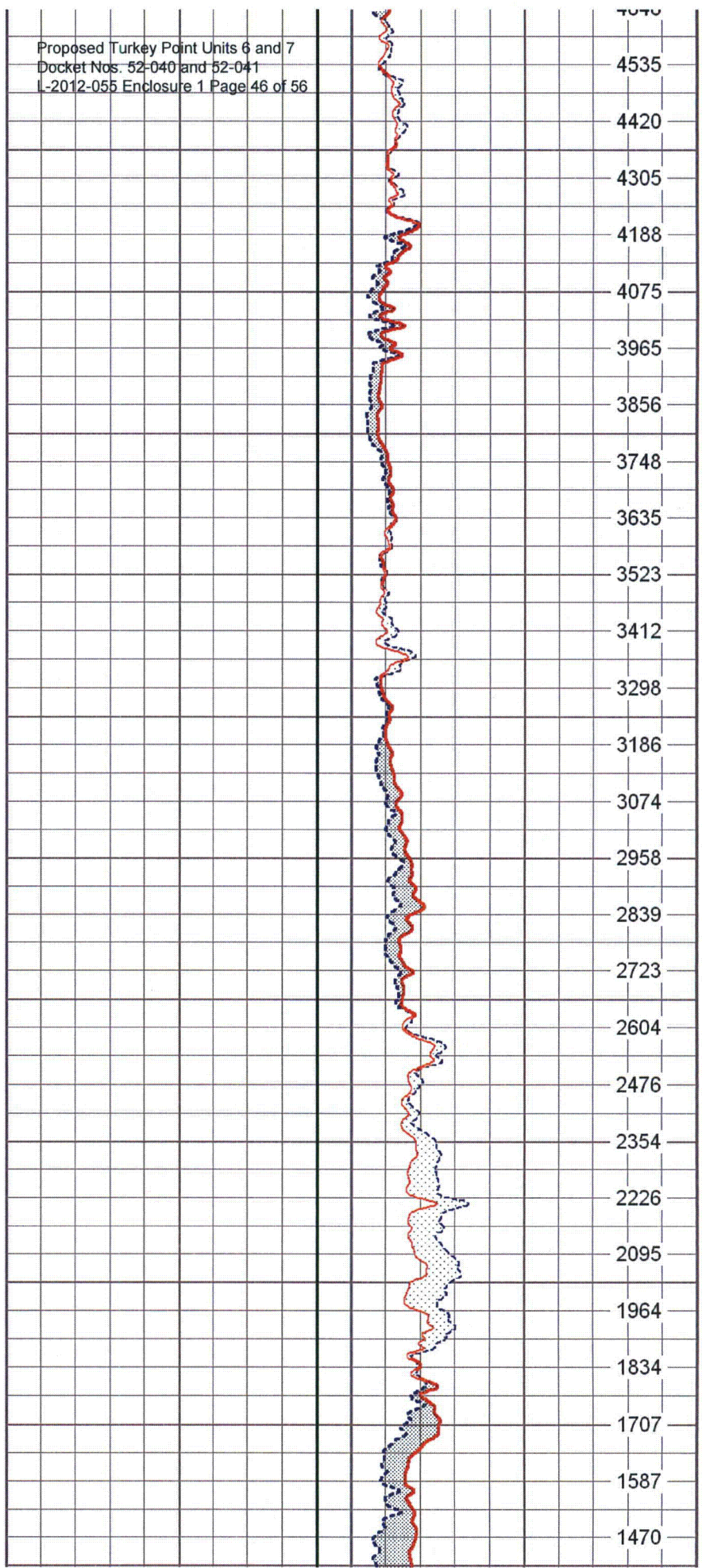
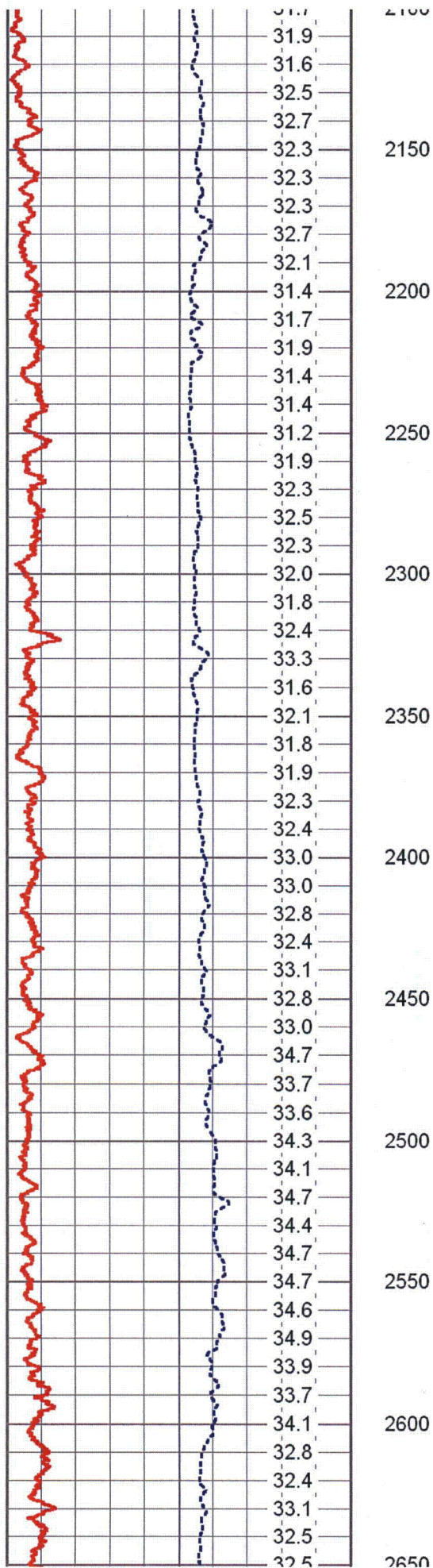


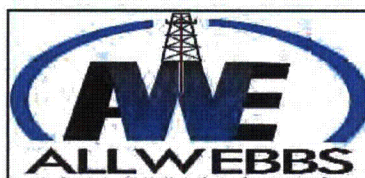
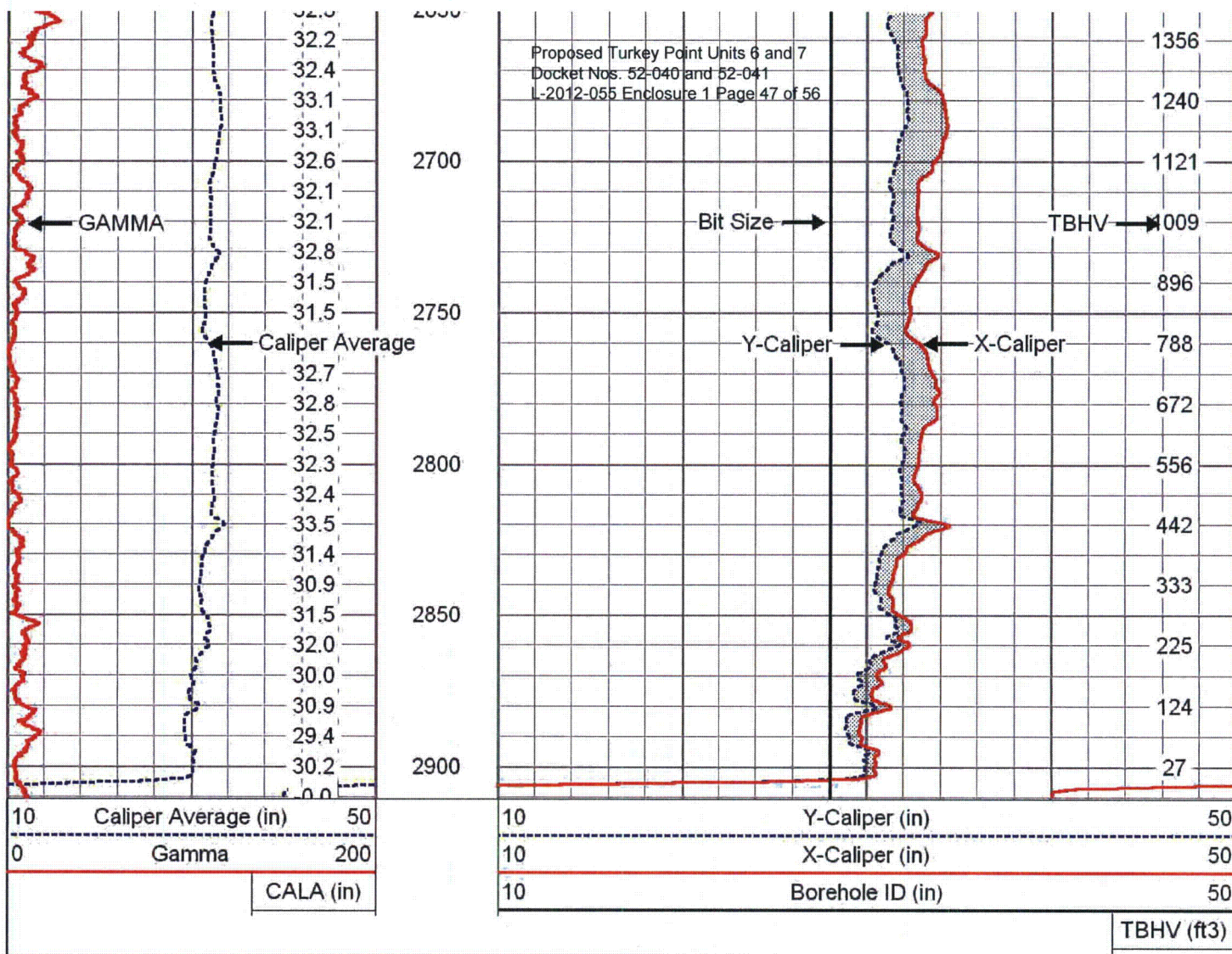


1550
1600
1650
1700
1750
1800
1850
1900
1950
2000
2050
2100

Proposed Turkey Point Units 6 and 7
Docket Nos. 52-040 and 52-041
L-2012-055 Enclosure 1 Page 45 of 56



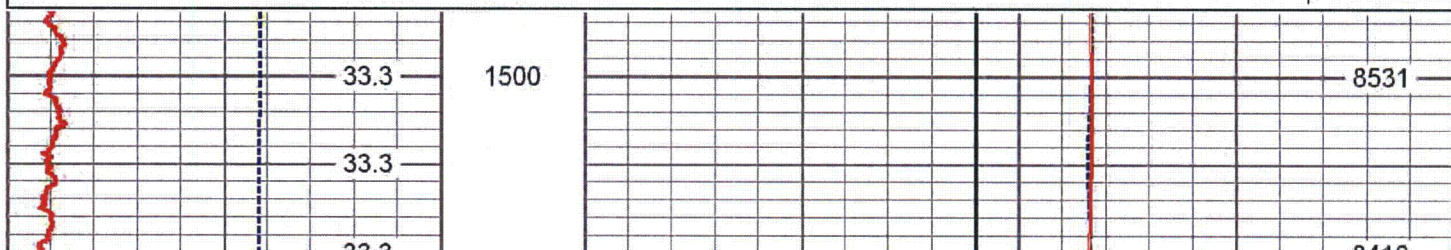


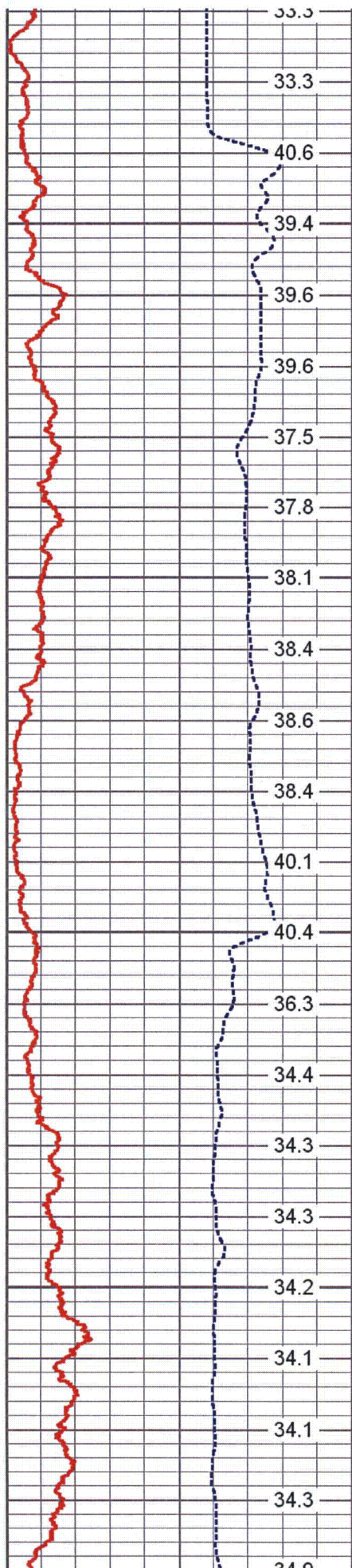


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0	Gamma	200	10	X-Caliper (in)	50
	CALA (in)		10	Borehole ID (in)	50
					TBHV (ft3)



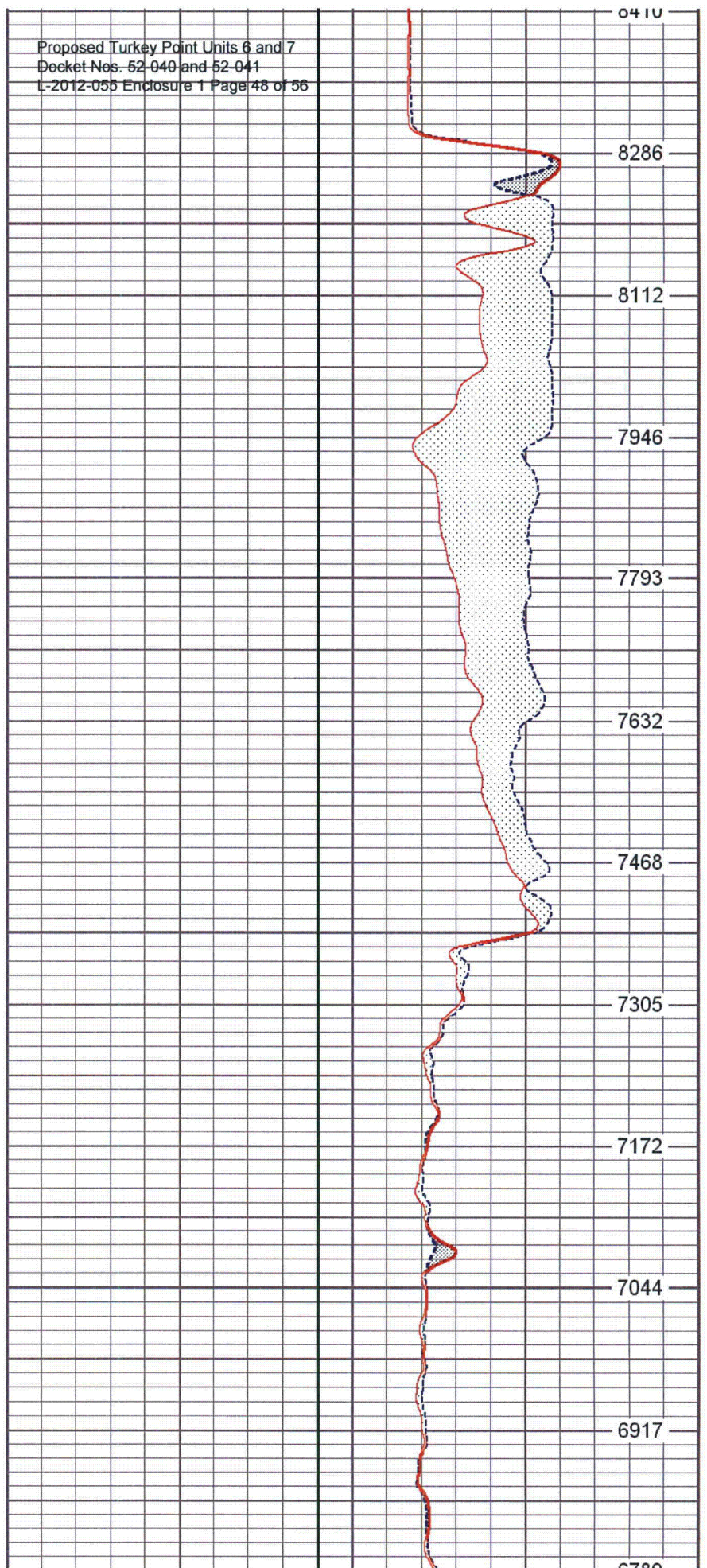


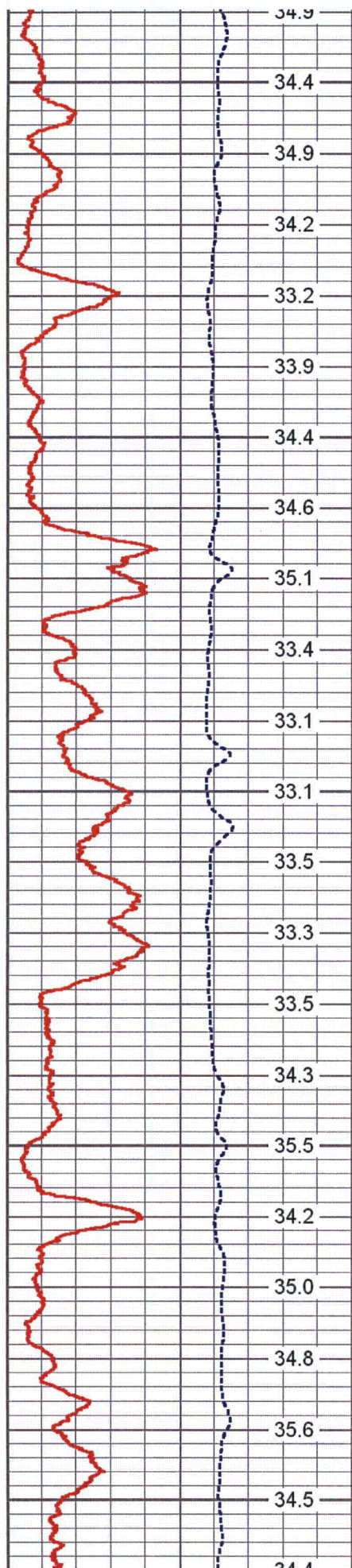
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1600

1650

1700





1750

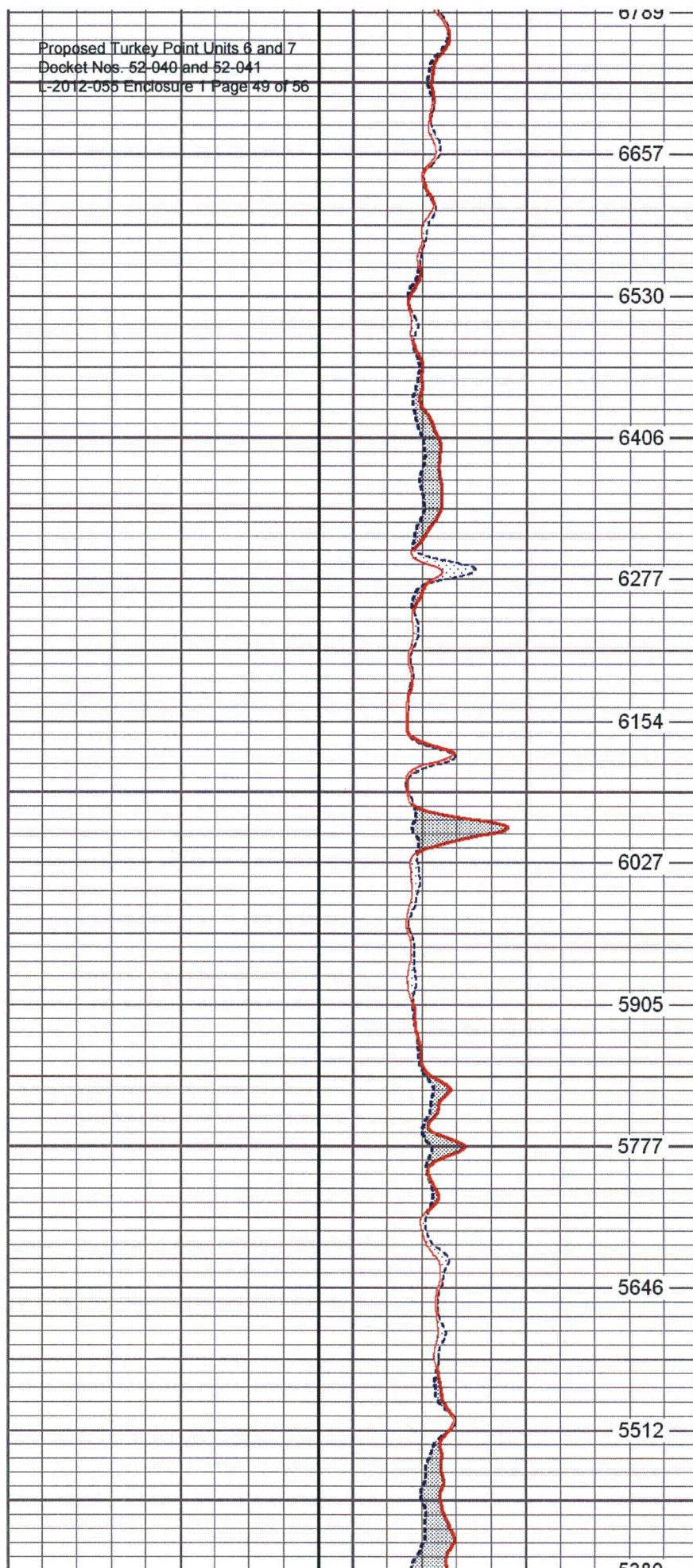
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1850

1900

1950

Proposed Turkey Point Units 6 and 7
Docket Nos. 52-040 and 52-041
L-2012-055 Enclosure 1 Page 49 of 56



61.09

6657

6530

6406

6277

6154

6027

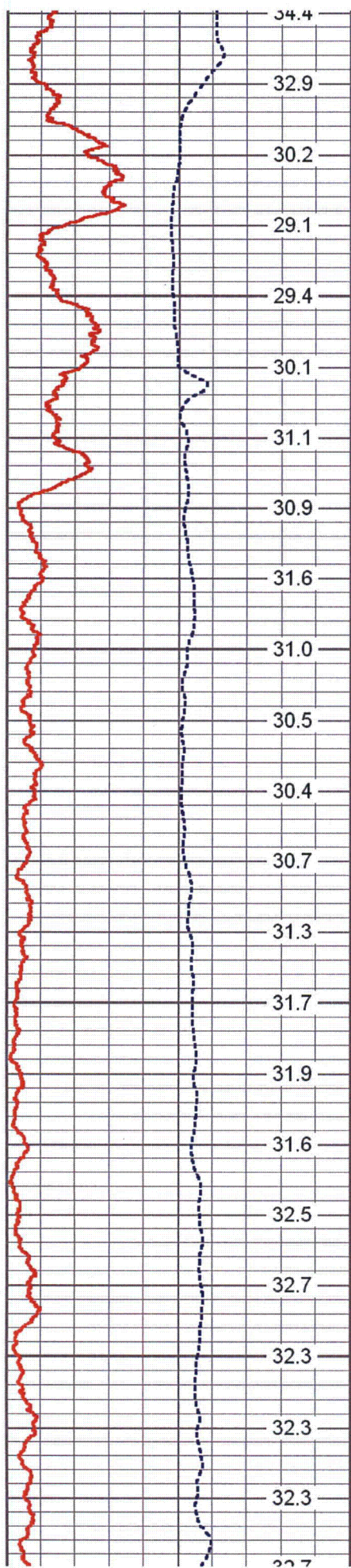
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5646

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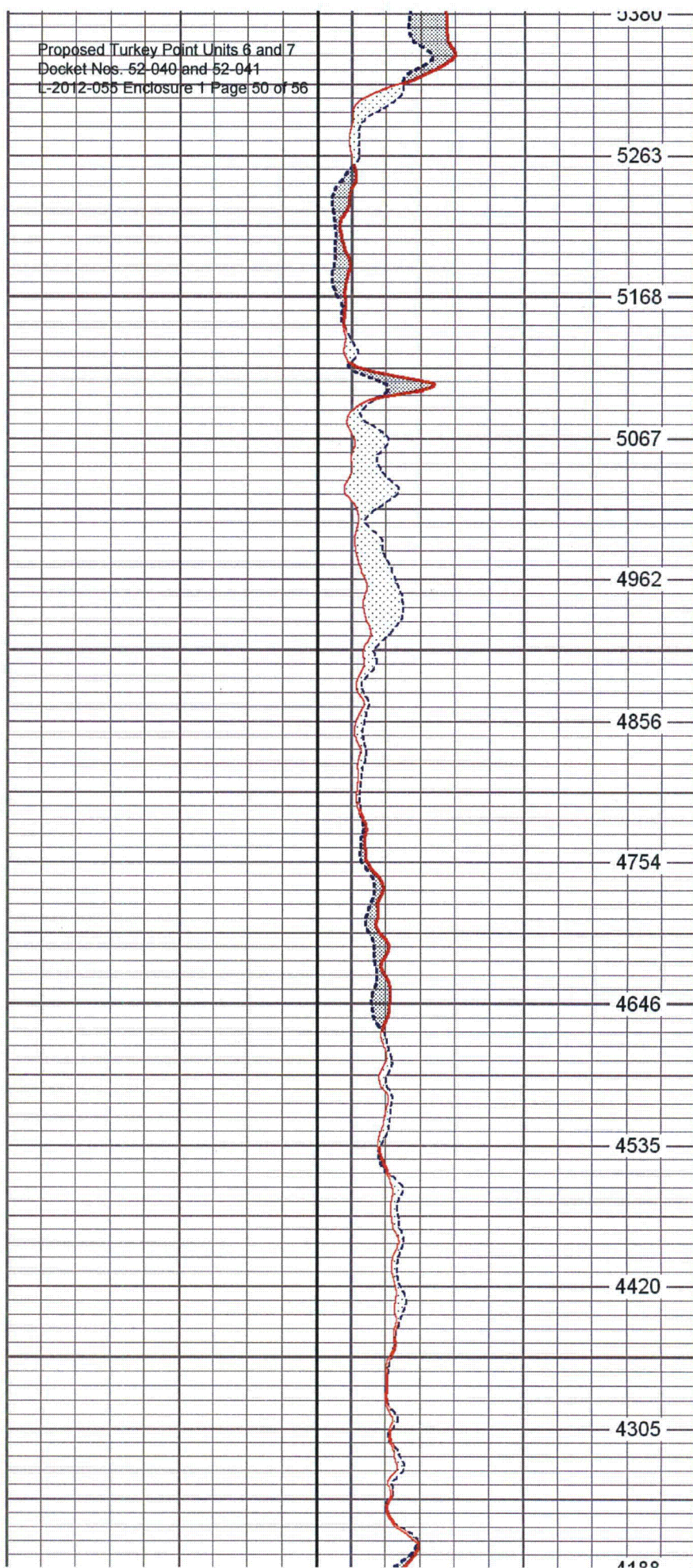


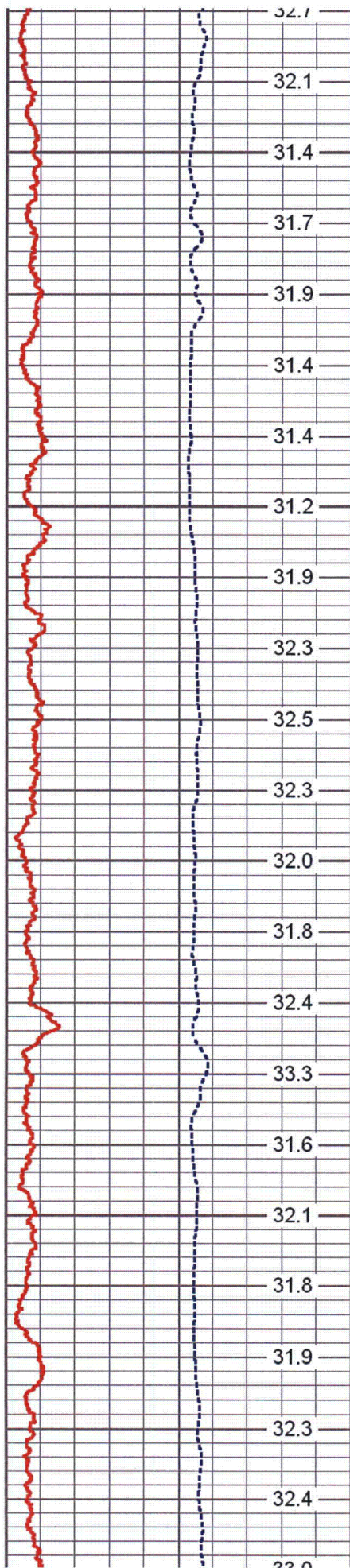
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2050

2100

2150





2200

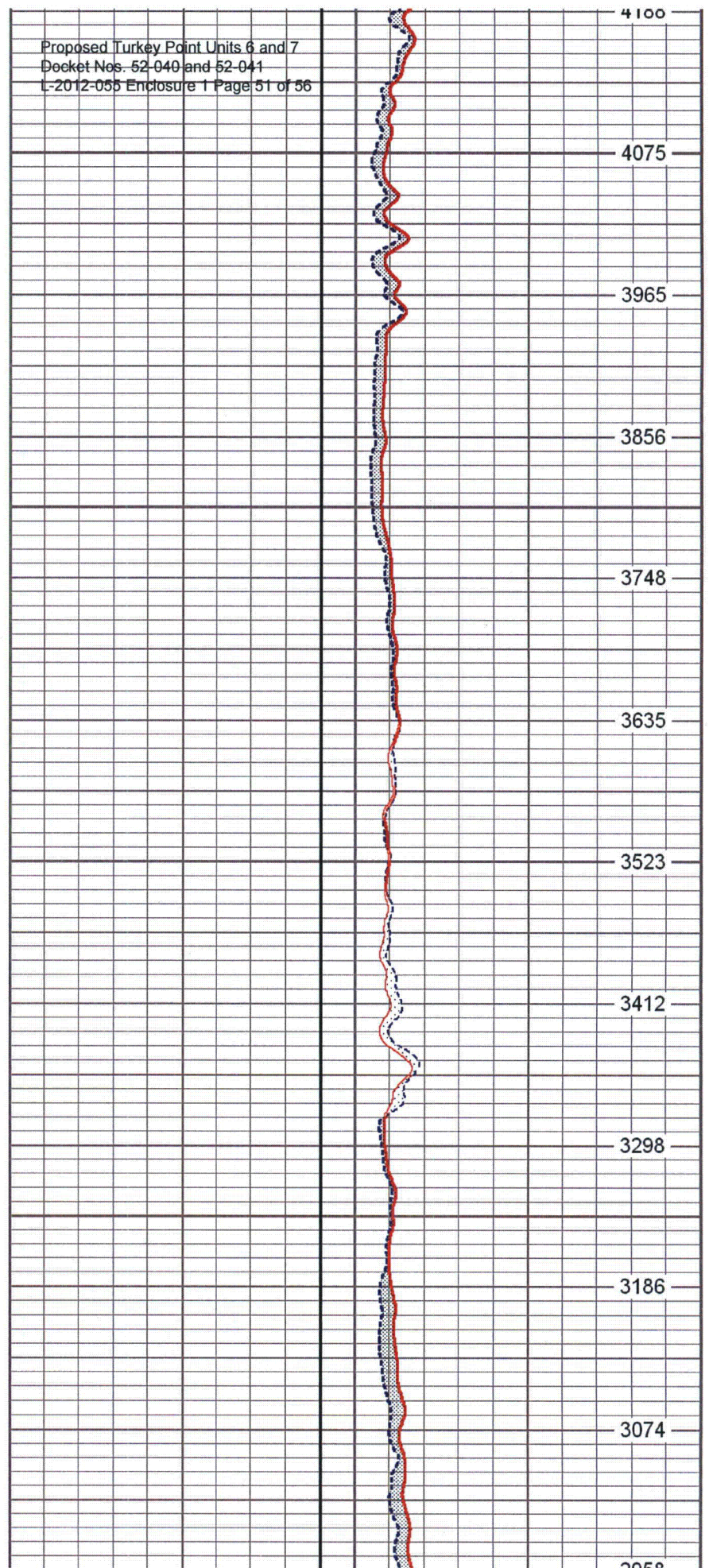
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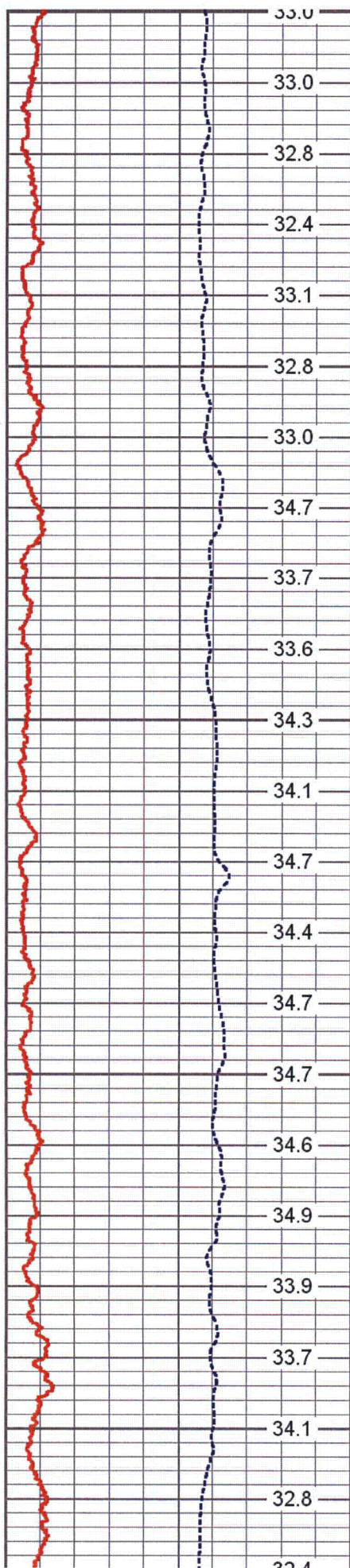
2300

2350

2400

Proposed Turkey Point Units 6 and 7
Docket Nos. 52-040 and 52-041
L-2012-055 Enclosure 1 Page 51 of 56





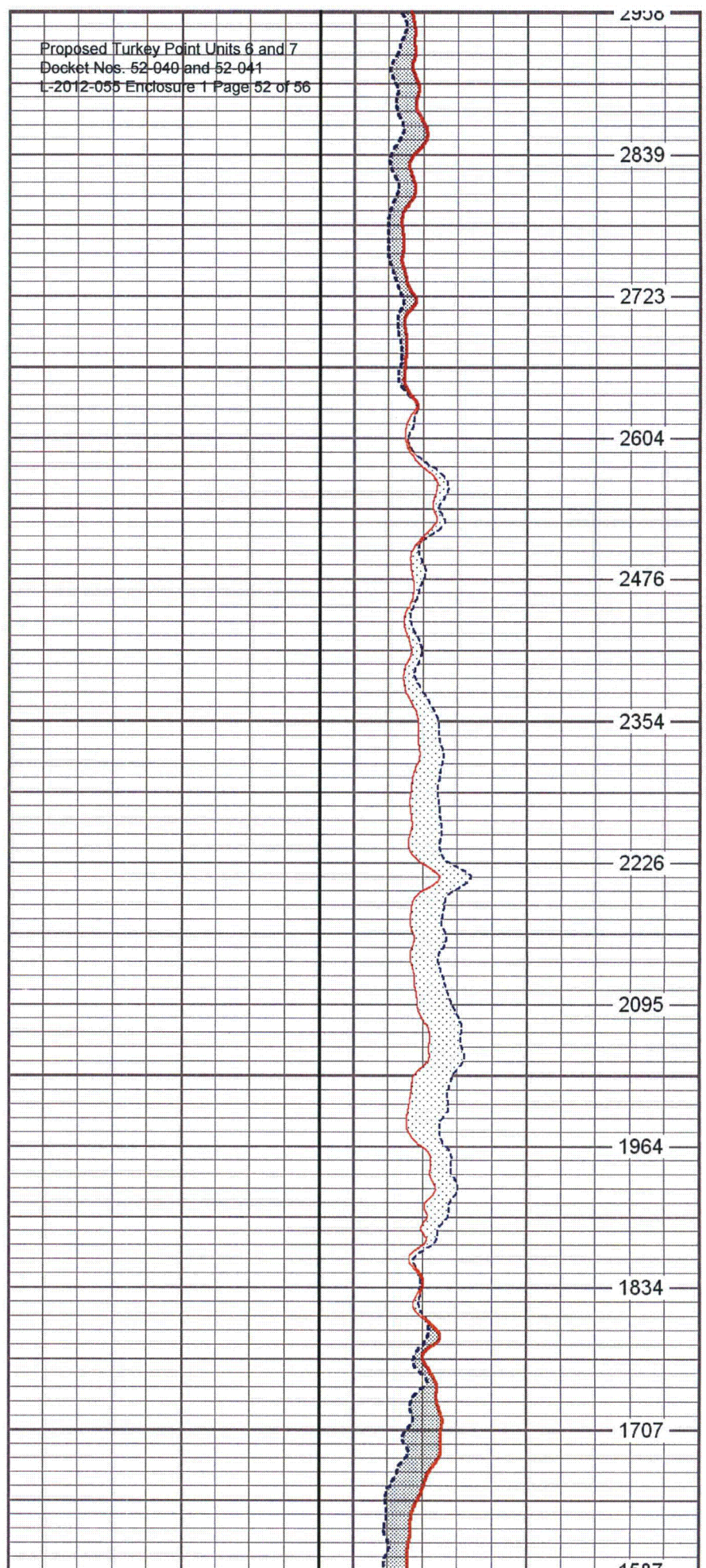
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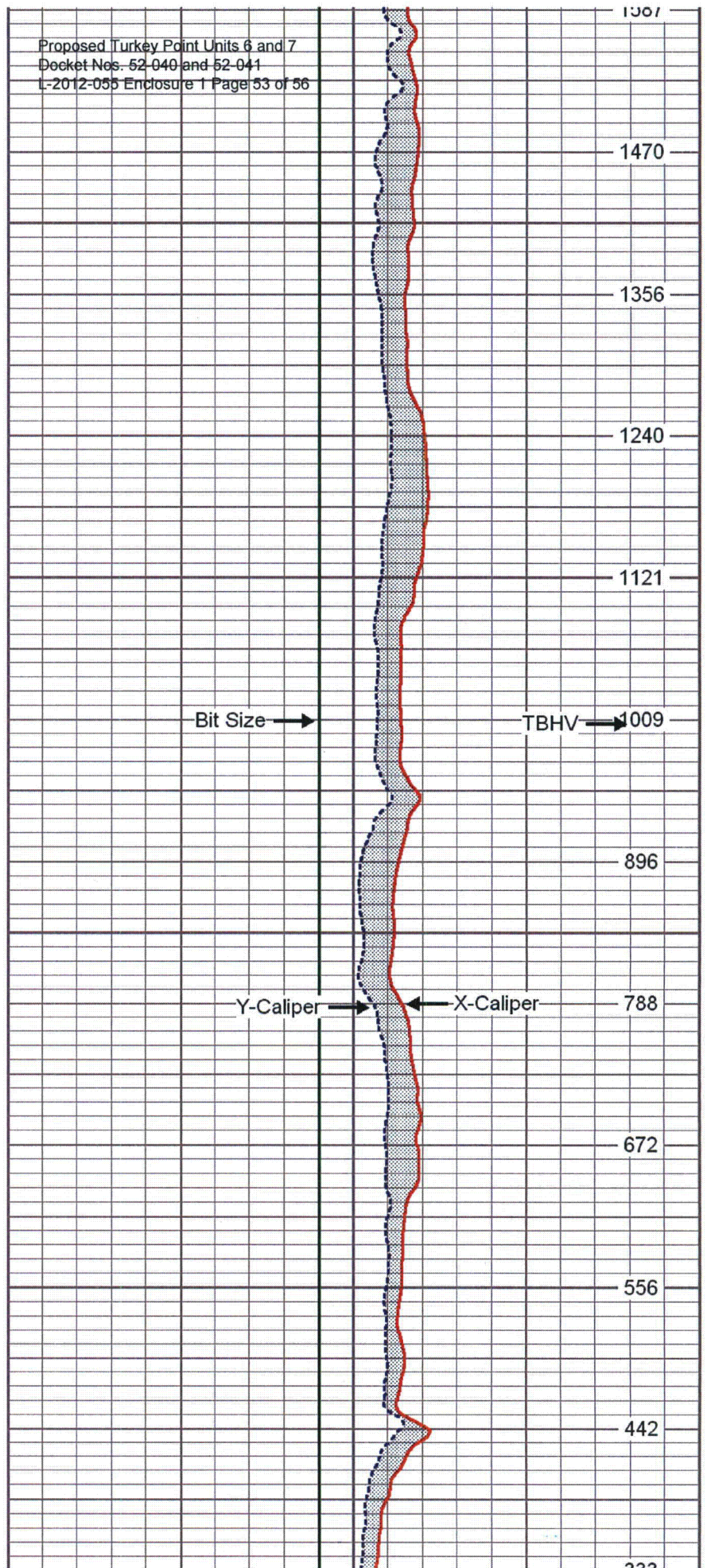
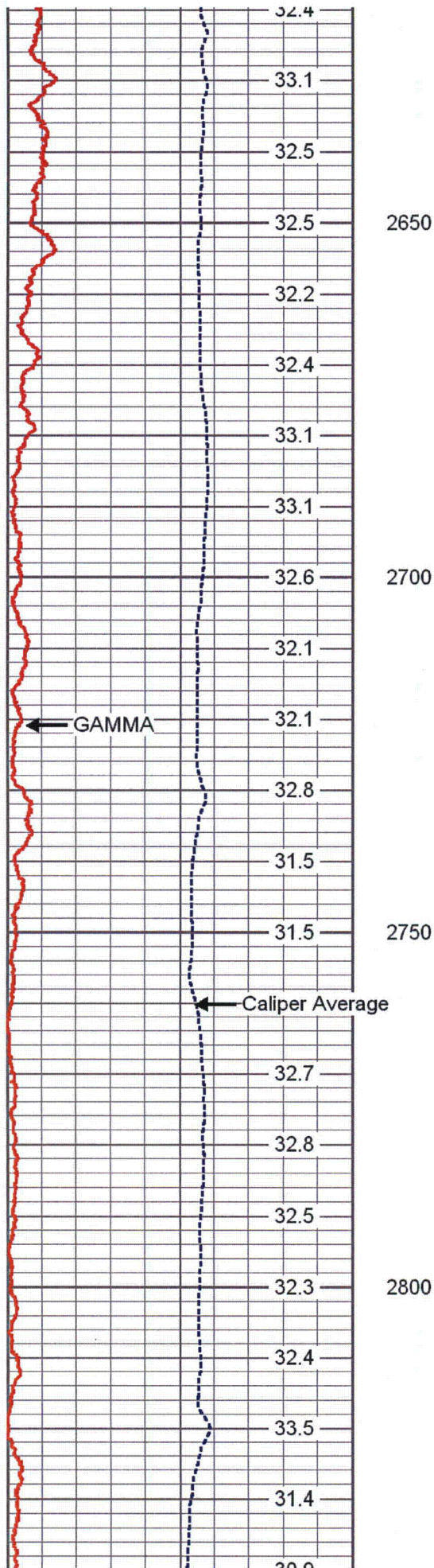
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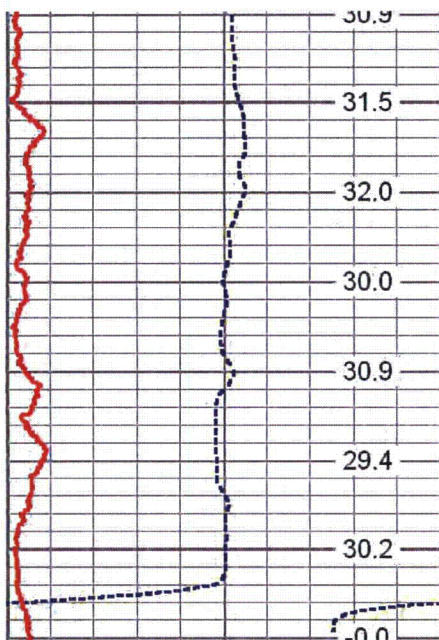
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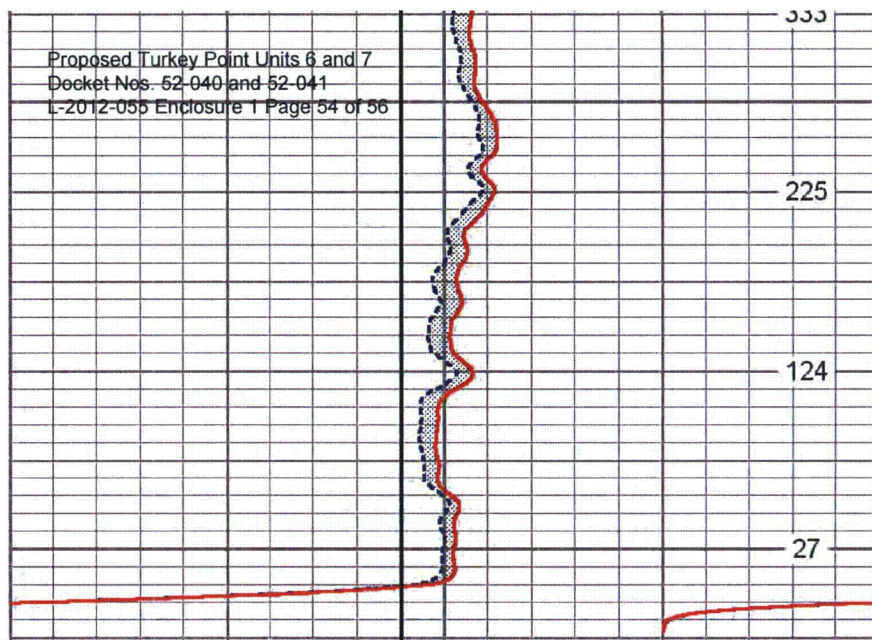




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	CALA (in)	

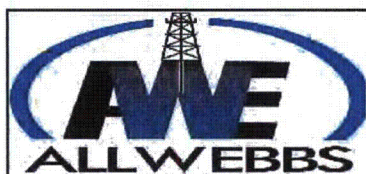
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2900



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10	X-Caliper (in)	50
10	Borehole ID (in)	50
	TBHV (ft3)	

TBHV (ft3)



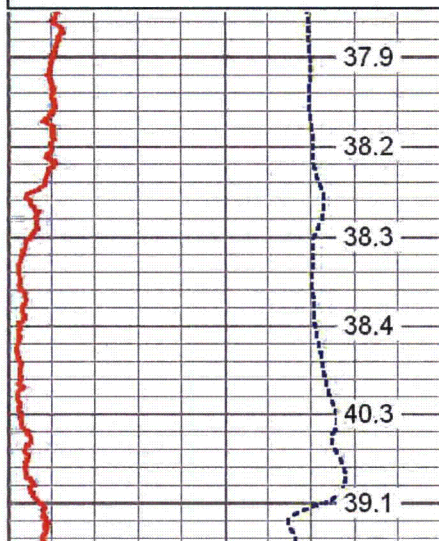
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 Charted by: Depth in Feet scaled 1:240

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	CALA (in)	

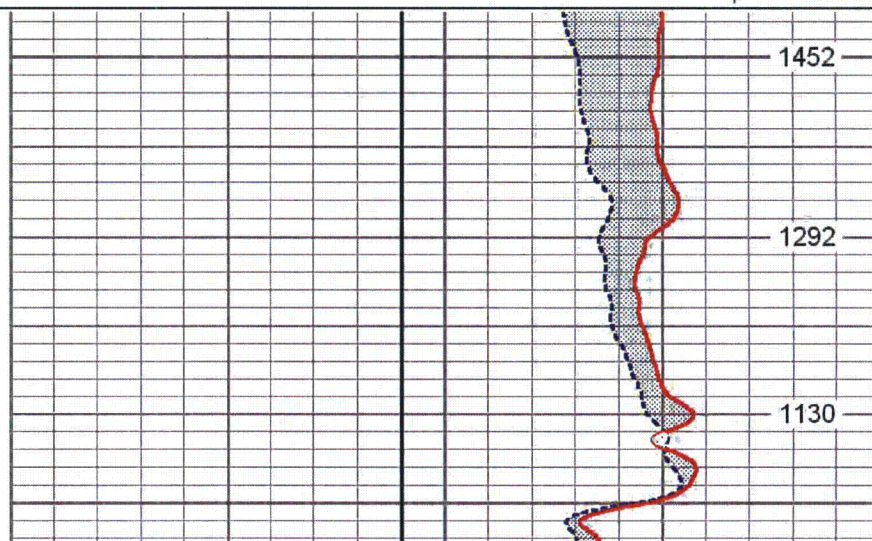
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	TBHV (ft3)	

TBHV (ft3)



1600

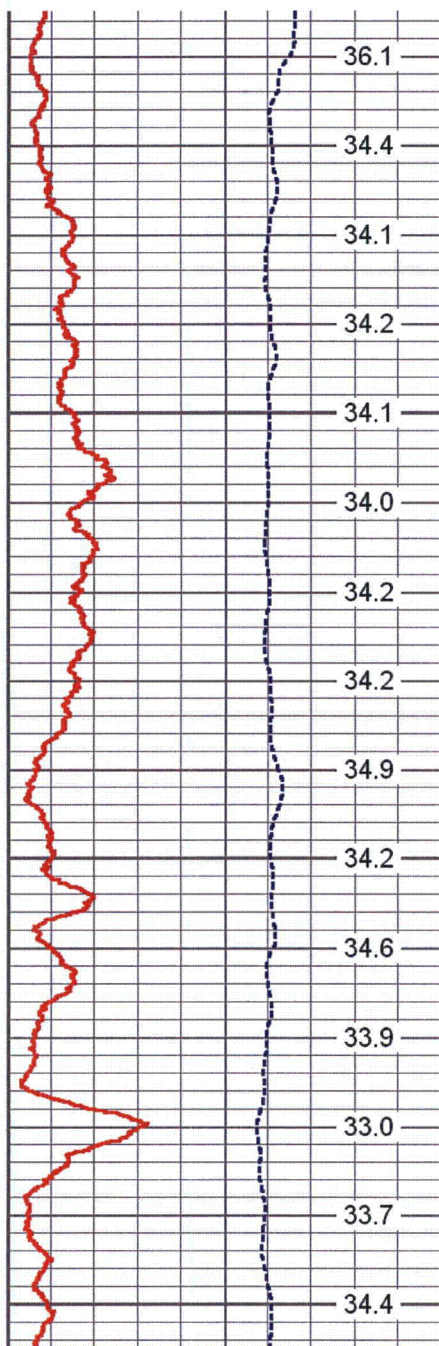
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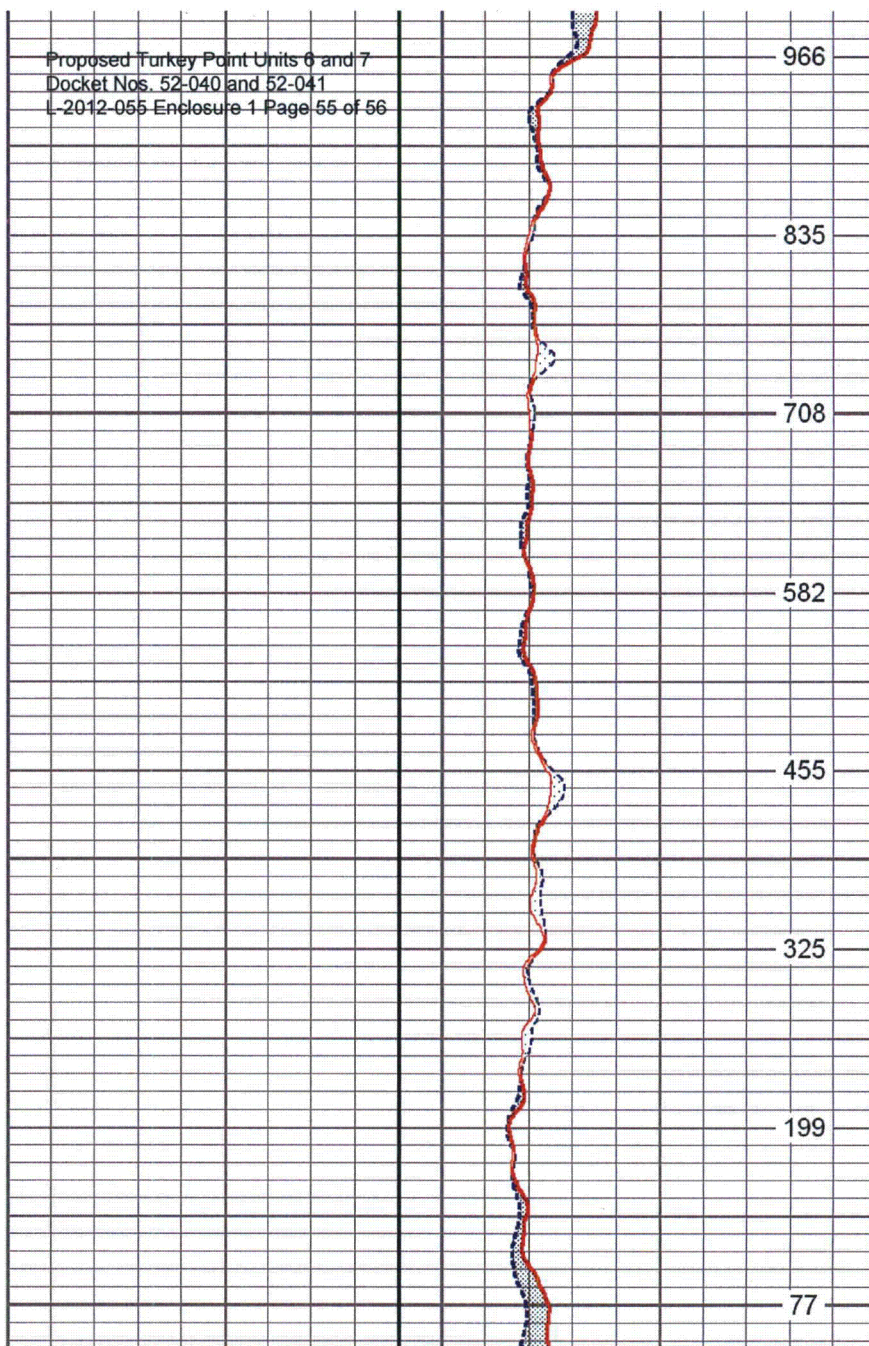
1452

1292

1130



10	Caliper Average (in)	50
0	Gamma	200
	CALA (in)	



10	Y-Caliper (in)	50
10	X-Caliper (in)	50
10	Borehole ID (in)	50

TBHV (ft3)

Calibration Report

Database File: tpew1.db
 Dataset Pathname: run2/XYCMP
 Dataset Creation: Sun Jan 15 19:57:57 2012 by Calc Open-Cased 100827

XY Caliper Calibration Report

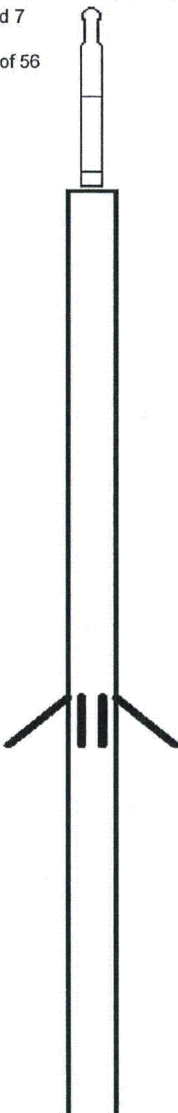

Serial Number/Model:
 Performed:

Probe24-60-Probe24"
 Sun Jan 15 18:03:58 2012

Ring
 1. 10 in

X Caliper
 207.704 mm

Y Caliper
 116.048 mm

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
Proposed Turkey Point Units 6 and 7 Docket Nos. 52-040 and 52-041 L-2012-055 Enclosure 1 Page 56 of 56			CHD-SDSCHD (SDS) Cable Head	1.00	1.50	5.00
			XYC-Probe24" (Probe24-60) Probe XY Caliper with 24" extensions	5.17	3.50	99.00
XCAL YCAL	0.50 0.50					
Dataset: tpew1.db: field/well/run2/XYCMP Total Length: 6.17 ft Total Weight: 104.00 lb O.D. 3.50 in						

Proposed Turkey Point Units 6 and 7
Docket Nos. 52-040 and 52-041
L-2012-055 Enclosure 2 Page 1 of 47

Enclosure 2

Florida Power & Light Company Turkey Point Units 6 & 7
Exploratory Well Project; Permit #0293962-001-UC
Weekly Construction Summary #38 dated January 27, 2012

WEEKLY CONSTRUCTION SUMMARY



McNabb Hydrogeologic Consulting, Inc.

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

January 27, 2012

MHCDEP-12-0044

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 #38**

Dear Mr. May:

This is the thirty-eighth weekly construction summary for the above referenced project. The reporting period for this weekly construction summary began at 7:00 AM, Thursday, January 19, 2012 and ended at 7:00 AM, Thursday, January 26, 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 reamed the interval from 2,519 to 2,900 feet below pad level (bpl) using a 28-inch diameter drill bit. The borehole then underwent caliper and gamma ray logging. Straddle packers were installed to test the intervals from 2,552 to 2,574 feet bpl, 2,634 to 2,656 feet bpl, 2,844 to 2,866 feet bpl, and 2,480 to 2,502 feet bpl. In each case, the packers failed to isolate the test interval. In each case, the packers failed to isolate the test interval with the exception of the 2,844 to 2,866 feet bpl test interval, which was productive during test interval conditioning, therefore, the test on this interval was terminated.

During this reporting period, the drilling contractor tested the sleeved straddle packers inside the 34-inch diameter casing to determine if the sleeved packers were performing properly. The test demonstrated that the upper packer was not expanding properly and was not isolating the test interval. The sleeved straddle packers were then removed from the well and shipped to the manufacturer to be enlarged from a 24-inch diameter to a 27-inch diameter. The additional packer sleeve diameter is anticipated to allow isolation of straddle packer test intervals. The drilling contractor reamed the interval from 1,960 to 2,100 feet bpl using a 32-inch diameter bit while waiting for the modified packer sleeves to arrive on site. A wiper pass was made to a depth of 2,900 feet bpl with a 28-inch diameter bit prior to conducting caliper and gamma ray logging of the interval from the base of the

34-inch diameter casing to 2,900 feet bpl. The packer sleeves had arrived on site and were successfully tested at surface to demonstrate they properly inflate. The drilling contractor was preparing for straddle packer testing at the end of the reporting period.

Deviation surveys were conducted at 60-foot intervals during reaming. A copy of the deviation survey summary sheet is attached. The well was killed with salt during the reporting period. A daily kill material log providing a summary of daily kill material and kill quantity is attached. An electronic copy of the geophysical logs performed during this reporting period is attached. Hard copies of the log prints are not yet available and will be included with next week's construction summary.

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

During the next reporting period, it is anticipated that the drilling contractor will perform straddle packer testing on selected intervals between 1,900 and 2,900 feet bpl.

In addition, sampling of the pad monitor wells began on April 21, 2011 and has been taking place on a weekly basis since the initial sampling. The pad monitor wells were most recently sampled on January 19, 2012. The most recent set of pad monitoring well sample results available are for samples collected on January 12, 2012. Sampling of the pad monitor wells around EW-1 will continue until drilling and testing of EW-1 has been completed. Copies of the pad monitor well water quality data summary sheets are attached.

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

Sincerely,

David McNabb Hydrogeologic Consulting, Inc.

David McNabb
1/27/12

David McNabb, P.G.

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

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

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



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Daily Construction Log

Date: January 19, 2012

Project: FPL Turkey Point EW

Contractor: Layne Christensen Company

Starting Depth: 2,900 feet bpl

Weather Day: Sunny, Warm

Weather Night: Clear, Cool

Activity: Preparing for Packer Test

FDEP UIC Permit #: 0293962-001-UC

Well No.: EW-1

Bit Diameter: NA

Ending Depth: 2,900 feet bpl

Recorded By: Deborah Daigle/Sally Durall

CONSTRUCTION ACTIVITIES

- 0700 Yesterday, the drilling contractor was down until 2035 hours due to an electrical issue with the rig. Once repaired, the drilling contractor installed the straddle packer assembly over the interval from 2,480 to 2,502 feet below pad level (bpl). The annular water level dropped approximately two feet while conditioning the test interval, indicating that a seal was not obtained at this depth interval. The test was terminated and the drilling contractor is currently performing general site maintenance.
- 0800 The drilling contractor begins to bleed-off the packers. The packers will be moved and positioned inside the 34-inch diameter casing and tested to determine if there are any problems with the sealing capabilities of the packers.
- 0900 The drilling contractor begins raising the straddle packer assembly to a depth interval of 1,445 to 1,467 feet bpl, which is inside of the 34-inch casing.
- 0945 Florida Spectrum Environmental Services, Inc. is on site to sample the pad monitoring wells.
- 1030 The drilling contractor continues to raise the straddle packer assembly to the target depth.
- 1200 The drilling contractor continues to raise the straddle packer assembly to the target depth.
- 1300 The drilling contractor has raised the straddle packer assembly to the target depth and is currently preparing to inflate the packers.
- 1410 The drilling contractor has inflated the packers to 600 psi and the packers are holding weight. The drilling contractor is running the air line to enable pumping water from the interval between the straddle packers.
- 1420 The air line is set and the test is ready to begin. The annular transducer is set and ready to record data.
- 1430 The drilling contractor begins pumping water from the packer interval inside the drill pipe. Movement of the annular water level is observed by approximately eight feet, indicating the upper packer is not sealing.
- 1436 The drilling contractor increases the pressure on the packers to 650 psi. The annular water level appears to have stabilized.



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- 1437 Movement of the annular water level is observed by approximately three feet, indicating the upper packer is not sealing. The drilling contractor will bleed the packers and trip out of the hole to inspect the packer assembly.
- 1450 The drilling contractor begins to bleed-off the packers.
- 1645 The drilling contractor has bled down the packers and is starting to trip the straddle packer assembly out of the borehole.
- 1800 The drilling contractor continues to trip out of the borehole with the packers.
- 1930 The drilling contractor continues to trip out of the borehole with the packers.
- 2020 The straddle packer assembly is on the rig floor. The drilling contractor will break down the straddle packer assembly and test each packer separately on the ground inside a piece of 34-inch diameter steel, .375 inch wall casing.
- 2140 The drilling contractor has broken down the straddle packer assembly and preparing to test the bottom packer inside the 34-inch diameter casing.
- 2220 The drilling contractor begins to inflate the bottom packer.
- 2300 The drilling contractor has pressured up the bottom packer to 500 psi. The packer appears to be fully inflated inside the casing.
- 2310 The drilling contractor begins to bleed-off the bottom packer and then will begin to set up to test the top packer.
- 2355 The drilling contractor has pressured up the top packer to 500 psi. Approximately 1 inch of space between the packer and the casing is visible from the top and sides.
- 0005 The packer is pressured up to 630 psi and the space between the packer and casing is still visible.
- 0025 The drilling contractor begins to bleed-off the top packer and will investigate why the packer does not inflate to the specified size.
- 0300 The drilling contractor is performing general site maintenance.
- 0600 The drilling contractor is performing general site maintenance.
- 0700 The drilling contractor is waiting to determine plan of action for investigating the cause of the packer malfunction.



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Daily Construction Log

Date: January 20, 2012

Project: FPL Turkey Point EW

Contractor: Layne Christensen Company

Starting Depth: 1,960 feet bpl

Weather Day: Sunny, Warm

Weather Night: Clear, Cool

Activity: Packer Test/Reaming

FDEP UIC Permit #: 0293962-001-UC

Well No.: EW-1

Bit Diameter: 32-inch

Ending Depth: 1,983 feet bpl

Recorded By: Deborah Daigle/Sally Durall

CONSTRUCTION ACTIVITIES

- 0700 Yesterday, the drilling contractor installed the straddle packer assembly inside of the 34-inch diameter casing over the interval from 1,445 to 1,467 feet below pad level (bpl) to test the packer sealing ability. The annular water level dropped approximately 11 feet when pumping water from the test interval, indicating that a seal was not obtained on the upper packer. The packers were tripped out of the hole, and the drilling contractor is currently working to determine the problem with the upper packer.
- 0800 The drilling contractor is currently investigating the cause of the packer malfunction.
- 0900 The drilling contractor is currently investigating the cause of the packer malfunction.
- 1000 The drilling contractor is currently investigating the cause of the packer malfunction.
- 1100 The drilling contractor is currently investigating the cause of the packer malfunction.
- 1230 The drilling contractor will send the packer sleeves to the manufacturer to increase the diameter of the packers to 27 inches. In the meantime, the drilling contractor will ream the hole from 1,960 to 2,100 feet with the 32 inch diameter bit. The contractor is currently getting the packers disassembled and packed up for transport.
- 1330 The drilling contractor is preparing the rig for reaming with the 32-inch diameter bit.
- 1430 The drilling contractor is preparing the rig for reaming with the 32-inch diameter bit.
- 1530 The drilling contractor is preparing the rig for reaming with the 32-inch diameter bit.
- 1630 The drilling contractor is preparing the rig for reaming with the 32-inch diameter bit.
- 1730 The drilling contractor is preparing the rig for reaming with the 32-inch diameter bit.
- 1820 The drilling contractor begins to assemble the bottom hole assembly (BHA) for the 32-inch diameter bit.
- 2000 The drilling contractor continues assembly of the BHA.
- 2110 The drilling contractor begins to trip in the borehole with the BHA.
- 2300 The drilling contractor continues to trip in the borehole with the BHA.
- 0025 The drilling contractor begins to trip inside the drill pipe with the air line.
- 0140 The drilling contractor begins reaming the borehole from a depth of 1,960 feet bpl.
- 0300 The drilling contractor is reaming the borehole at a depth of 1,970 feet bpl.
- 0400 The drilling contractor is reaming the borehole at a depth of 1,974 feet bpl.
- 0530 The drilling contractor is reaming the borehole at a depth of 1,980 feet bpl.
- 0700 The drilling contractor is reaming the borehole at a depth of 1,983 feet bpl.



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Daily Construction Log

Date: January 21, 2012

Project: FPL Turkey Point EW

Contractor: Layne Christensen Company

Starting Depth: 1,983 feet bpl

Weather Day: Sunny, Warm

Weather Night: Clear, Cool

Activity: Reaming

FDEP UIC Permit #: 0293962-001-UC

Well No.: EW-1

Bit Diameter: 32-inch

Ending Depth: 2,058 feet bpl

Recorded By: Deborah Daigle/Sally Durall

CONSTRUCTION ACTIVITIES

- 0700 Yesterday, the drilling contractor removed the straddle packer assembly from the borehole, and removed and sent the packer sleeves to the manufacturer to increase the overall diameter of the packers to 27 inches. The drilling contractor then installed the 32 inch diameter bit into the borehole to a depth of 1,960 feet below pad level (bpl) and is currently reaming the hole at a depth of 1,983 feet below bpl. The contractor will ream the borehole to a depth of 2,100 feet with the 32 inch bit.
- 0830 The drilling contractor is reaming the borehole at a depth of 1,984 feet bpl.
- 0930 The drilling contractor is reaming the borehole at a depth of 1,986 feet bpl.
- 1100 The drilling contractor is reaming the borehole at a depth of 1,990 feet bpl.
- 1200 The drilling contractor is reaming the borehole at a depth of 1,994 feet bpl.
- 1300 The drilling contractor is reaming the borehole at a depth of 1,998 feet bpl.
- 1400 The drilling contractor is reaming the borehole at a depth of 2,002 feet bpl.
- 1600 The drilling contractor is reaming the borehole at a depth of 2,008 feet bpl.
- 1810 The kelly is down at a depth of 2,013 feet bpl and the drilling contractor is circulating the borehole clean in preparation for a deviation survey at the depth of 1,950 feet bpl.
- 1840 The drilling contractor trips inside the drill pipe with the deviation survey tool to a depth of 1,950 feet bpl.
- 1905 The deviation survey is complete with a result of 0.2 degree.
- 1930 The drilling contractor makes a drill pipe connection and resumes reaming the borehole from a depth of 2,013 feet bpl.
- 2040 The drilling contractor is reaming the borehole at a depth of 2,019 feet bpl.
- 2200 The drilling contractor is reaming the borehole at a depth of 2,025 feet bpl.
- 2330 The drilling contractor is reaming the borehole at a depth of 2,032 feet bpl.
- 0110 The drilling contractor is reaming the borehole at a depth of 2,039 feet bpl.
- 0240 The drilling contractor is reaming the borehole at a depth of 2,046 feet bpl.
- 0400 The drilling contractor is reaming the borehole at a depth of 2,052 feet bpl.
- 0550 The kelly is down at a depth of 2,058 feet bpl and the drilling contractor is circulating the borehole clean in preparation for a deviation survey at the depth of 2,010 feet bpl.
- 0619 The drilling contractor trips inside the drill pipe with the deviation survey tool to a depth of 2,010 feet bpl.



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- 0640 The deviation survey is complete with a result of 0.5 degree.
- 0700 The drilling contractor makes a drill pipe connection and resumes reaming the borehole from a depth of 2,058 feet bpl.



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Daily Construction Log

Date: January 22, 2012

Project: FPL Turkey Point EW

Contractor: Layne Christensen Company

Starting Depth: 2,058 feet bpl

Weather Day: Sunny, Warm

Weather Night: Clear, Cool

Activity: Reaming

FDEP UIC Permit #: 0293962-001-UC

Well No.: EW-1

Bit Diameter: 32-inch/28-inch

Ending Depth: 2,100 feet bpl

Recorded By: Deborah Daigle/Sally Durall

CONSTRUCTION ACTIVITIES

- 0700 Yesterday, the drilling contractor reamed the borehole from a depth of 1,983 to 2,058 feet bpl with the 32-inch diameter bit. The contractor is currently making a pipe connection and will continue reaming the borehole from a borehole from a depth of 2,058 feet bpl.
- 0800 The drilling contractor is reaming the borehole at a depth of 2,059 feet bpl.
- 0930 The drilling contractor is reaming the borehole at a depth of 2,065 feet bpl.
- 1130 The drilling contractor is reaming the borehole at a depth of 2,073 feet bpl.
- 1230 The drilling contractor is reaming the borehole at a depth of 2,077 feet bpl.
- 1400 The drilling contractor is reaming the borehole at a depth of 2,082 feet bpl.
- 1500 The drilling contractor is reaming the borehole at a depth of 2,086 feet bpl.
- 1600 The drilling contractor is reaming the borehole at a depth of 2,090 feet bpl.
- 1700 The drilling contractor is reaming the borehole at a depth of 2,094 feet bpl.
- 1815 The drilling contractor has reamed the borehole to a depth of 2,100 feet bpl and is circulating the borehole clean in preparation of performing a deviation survey at a depth of 2,070 feet bpl.
- 1930 The drilling contractor trip inside the drill pipe with the deviation survey tool to the depth of 2,070 feet bpl.
- 1955 The deviation survey is complete with a result of 0.3 degree.
- 2000 The drilling contractor begins to trip out of the borehole with the drill pipe and bottom hole assembly (BHA).
- 2200 The drilling contractor continues to trip out of the borehole with the drill pipe and BHA.
- 2315 The drilling contractor is killing the well with salt.
- 0000 The drilling contractor is breaking down the BHA.
- 0210 The 32-inch diameter drill bit is on the rig floor. The drilling contractor is preparing to trip back in the borehole with the 28-inch diameter drill bit to perform a wiper trip to a depth of 2,900 feet bpl.
- 0345 The drilling contractor begins to trip in the hole with the 28-inch diameter bit.
- 0500 The drilling contractor continues to trip in the hole with the 28-inch diameter bit.
- 0630 The drilling contractor continues to trip in the hole with the 28-inch diameter bit.
- 0700 The drilling contractor continues to trip in the hole with the 28-inch diameter bit. Approximately 950 feet of drill pipe has been installed in the bore hole.



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Daily Construction Log

Date: January 23, 2012

Project: FPL Turkey Point EW

Contractor: Layne Christensen Company

Starting Depth: 2,100 feet bpl

Weather Day: Sunny, Warm

Weather Night: Clear, Cool

Activity: 28-inch Wiper Trip

FDEP UIC Permit #: 0293962-001-UC

Well No.: EW-1

Bit Diameter: 28-inch

Ending Depth: 2,900 feet bpl

Recorded By: Marty Clasen/Sally Durall

CONSTRUCTION ACTIVITIES

- 0700 Yesterday, the drilling contractor reamed the borehole from a depth of 2,058 to 2,100 feet below pad level (bpl) with the 32-inch diameter bit, removed the 32-inch diameter bit from the hole, and began installing the 28-inch diameter bit. The contractor is currently making a pipe connection and will continue installing the 28-inch diameter bit to a depth of 2,900 feet bpl to make sure the hole is open to that depth in preparation for packer testing.
- 0800 The drilling contractor continues to trip in the 28-inch diameter bit.
- 0910 The drilling contractor continues to trip in the 28-inch diameter bit and is currently at a depth of 2,185 feet bpl.
- 1035 The drilling contractor continues to trip in the 28-inch diameter bit and is currently at a depth of 2,876 feet bpl. The 28-inch bit encountered drill cuttings at a depth of 2,876 feet bpl.
- 1140 The drilling contractor is preparing to install the air-line and drill out the borehole to a depth of 2,900 feet bpl.
- 1245 The drilling contractor continues to install the air-line.
- 1330 The drilling contractor has installed the airline and has begun circulating and is air-lifting the drill cuttings out of the borehole.
- 1430 The drilling contractor is air-lifting the borehole at a depth of 2,877 feet bpl.
- 1600 The drilling contractor is air-lifting the borehole at a depth of 2,889 feet bpl.
- 1630 The drilling contractor is air-lifting the borehole at a depth of 2,895 feet bpl. The top of the air-line has plugged off with fine cuttings causing a pressure build up.
- 1730 The drilling contractor has cleaned out the cuttings in the air-line and is resuming cleaning out the bore hole.
- 1830 The air line has plugged off with cuttings again and the drilling contractor is in the process of clearing the cuttings.
- 1910 The drilling contractor resumes air-lifting the cuttings from the borehole at a depth of 2,895 feet bpl.
- 1920 The drilling contractor is air-lifting the borehole at a depth of 2,900 feet bpl.
- 2100 The drilling contractor continues air-lifting the borehole at a depth of 2,900 feet bpl.
- 2230 The drilling contractor continues air-lifting the borehole at a depth of 2,900 feet bpl.



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- 0000 The drilling contractor continues air-lifting the borehole at a depth of 2,900 feet bpl.
- 0130 The drilling contractor continues air-lifting the borehole at a depth of 2,900 feet bpl.
- 0330 The drilling contractor continues air-lifting the borehole at a depth of 2,900 feet bpl.
- 0415 The drilling contractor begins to trip out of the borehole with the 28-inch diameter reamer bit.
- 0600 The drilling contractor continues to trip out of the borehole with the 28-inch diameter reamer bit.
- 0700 The drilling contractor continues to trip out of the borehole with the 28-inch diameter reamer bit.



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Daily Construction Log

Date: January 24, 2012
Project: FPL Turkey Point EW
Contractor: Layne Christensen Company
Starting Depth: 2,900 feet bpl
Weather Day: Sunny, Warm
Weather Night: Clear, Cool
Activity: Caliper and Gamma Ray Logging

FDEP UIC Permit #: 0293962-001-UC
Well No.: EW-1
Bit Diameter: 28-inch
Ending Depth: 2,900 feet bpl
Recorded By: Marty Clasen/Sally Durall

CONSTRUCTION ACTIVITIES

- 0700 Yesterday, the drilling contractor conducted a wiper trip with the 28-inch diameter bit to a depth of 2,900 feet bpl. The contractor is currently tripping out of the borehole with the 28-inch diameter bit in preparation for the caliper and gamma ray log.
- 0800 The drilling contractor continues to trip out of the borehole with the 28-inch diameter bit.
- 0900 The drilling contractor continues to trip out of the borehole with the 28-inch diameter bit.
- 1030 The drilling contractor continues to trip out of the borehole with the 28-inch diameter bit.
- 1100 The drilling contractor added 3 bags of salt to kill the well.
- 1200 The drilling contractor has tripped out the 28-inch diameter reaming bit from the borehole.
- 1340 The geophysical logger is on site. The drilling contractor is preparing for geophysical logging. Caliper and gamma ray logs will be run from 2,900 feet bpl to the base of the 34-inch diameter casing at a depth of 1,535 feet bpl.
- 1405 The geophysical logger started running the logging tool into the hole.
- 1425 The caliper and gamma ray tool is at the bottom of the borehole at a depth of 2,900 feet bpl and the geophysical logger began logging up the hole.
- 1500 The caliper and gamma ray tool is inside the 34-inch diameter casing at a depth of 1,535 feet bpl.
- 1600 The drilling contractor completed the caliper and gamma ray logging.
- 1700 The drilling contractor will wait on the arrival of the packer sleeves to perform straddle packer testing. The packer sleeves are anticipated to arrive on site tomorrow morning. No observation will be performed during the night shift. Resident observation will resume on January 25, 2012 at 10:00 am.



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Daily Construction Log

Date: January 25, 2012

FDEP UIC Permit #: 0293962-001-UC

Project: FPL Turkey Point EW

Well No.: EW-1

Contractor: Layne Christensen Company

Bit Diameter: 28-inch

Starting Depth: 2,900 feet bpl

Ending Depth: 2,900 feet bpl

Weather Day: Cloudy, Warm

Recorded By: Marty Clasen/Sally Durall

Weather Night: Clear, Cool

Activity: Preparing for Packer Testing

CONSTRUCTION ACTIVITIES

- 1000 Yesterday, the drilling contractor tripped out of the borehole with the 28-inch diameter bit and conducted caliper and gamma ray geophysical logging from 2,900 to 1,535 feet below pad level (bpl). The drilling contractor is waiting for the packer sleeves to be delivered on site. When the packer sleeves are delivered, the packers will be assembled and the drilling contractor will test the packers and then proceed with packer testing.
- 1200 The drilling contractor is awaiting the arrival of the packer sleeves after being modified to add 3 inches in diameter.
- 1330 The drilling contractor is preparing for straddle packer testing while waiting on the arrival of the packer sleeves.
- 1500 The drilling contractor continues preparing for straddle packer testing while waiting on the arrival of the packer sleeves.
- 1630 The drilling contractor continues to await the arrival of the packer sleeves.
- 1730 The drilling contractor continues to await the arrival of the packer sleeves.
- 1900 The drilling contractor continues to await the arrival of the packer sleeves.
- 2100 The drilling contractor continues to await the arrival of the packer sleeves.
- 2220 The packer sleeves have arrived on site. The drilling contractor unloads the packer sleeves and will begin to install the sleeves on the packers.
- 0000 The drilling contractor continues to assemble the straddle packers.
- 0120 The drilling contractor is setting up to test the top packer inside a piece of 34-inch diameter casing on the surface.
- 0200 The drilling contractor begins to inflate the top packer.
- 0255 The drilling contractor has inflated the top packer to 350 pounds per square inch (psi).
- 0400 The top packer has held pressure at 350 psi and the drilling contractor begins to bleed-off the packer.
- 0510 The drilling contractor has set up the bottom packer inside the 34-inch diameter casing to be tested at the surface and begins to inflate the bottom packer.
- 0540 The drilling contractor has inflated the bottom packer to 350 psi.
- 0640 The bottom packer has held pressure at 350 psi and the drilling contractor begins to bleed-off the packer.



McNabb Hydrogeologic Consulting, Inc.



0700 The drilling contractor is preparing to assemble the two packers and trip them into the hole.

1/19/12

Client's Signature _____ Date _____

PAYROLL

Preparer's Signature _____ Date _____



FILE # 91-771

L-2012-055 Enclosure 2 Page 16 of 47

THUR NIGHT

10/10/1964 (1964) 10/10/1964

PERSONNEL EMPLOYED TODAY

DEPARTMENT EXPLORES TODAY

DAILY ACCOUNTING OF ACTIVITIES BY ITEM #

Description		Unit #	Status
Working	WK	Mobilization	MO
Standby	SB	Demobilization	DM
Down In Shop	DS	Available In Yard	AY
Down on Site	DN	Available on Job	AV

MATERIALS USED TODAY

TIME OF ACTIVITY BY ITEM

[illegible]

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

Item #	Cost Code	Labor Activity	Hours
1	10000	Short Duration Job	
2	11200	Onsite Mob/Demob	
3	11100	Job Preparation	
4	11200	Safety Meeting	
5	0005	Training - Overhead	
6	0006	Shop - Overhead	
7	0007	Maintenance - Overhead	
8	11250	Training - Job Chargeable	
9	11200	Site Clean up	
10	11300	Install Sound Walls	
11	11400	Install Decon Pad	
12	11450	Install Surface Casing	
13	11300	Install Roadway & Off Pad	
14	12050	Test Hole Drilling	
15	12100	Geophysical Logging & Other Testing	
16	12150	Header 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	Header 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	Weller Washing	
31	14050	Well Development Air Lift and Swab	
32	14100	Disposal of Fluids & Cuttings	
33	14150	Furnish & Install Test Pump and Discharge	
34	14200	Development Pumping	
35	14250	Test Pumping	
36	14300	Identification and Classification	
37	19050	Onsite Activities Mob/Demob	
38	19100	Shop	
39	19150	Administrations	
40	19550	Other Activities Standby	
41	19600	Waiting for Lost/Broken Tooling	
42	19650	Change Order Activities	
43	00000	Equipment Repairs	
44	90170	Damages	
45	90200	Job Superintendent	
		Lunch	
		TOTAL HOURS	

1-19-12

Cent's Signature

PAYROLL

References

11

Day

442

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT FPL Proposed Turkey Point Units 6 and 7
JOB SITE NAME EW-1 Docket Nos. 52-040 and 52-041
L-2012-055 Enclosure 2 Page 19 of 47

DATE- 1-21-2012
SAT. Days

JOB # 11771
LOCATION TURKEY POINT

PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
DRILL MMR	Michael A. Ramirez	X	13		13
JN	Juan Nieto	X	12		12
JE	James McDannell	X	12		12
JY	Justin Yeomans	X	12		12

MATERIALS USED TODAY

Quantity	Description
	Safety Meetings
1)	Hand Safety
2)	Ladder & Stairway Safety
	PPE, Truckhoe / Loader, Overhead dangers, Fall Protection, rigging loads.

EQUIPMENT DEPLOYED TODAY

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

TIME OF ACTIVITY BY ITEM

[illegible]

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	Trailing - Overhead	
6	0006	Shoog - Overhead	
7	0007	Maintenance - Overhead	
8	11250	Trailing - 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 & Drive Pad	
14	12050	Test Hole Drilling	
15	12100	Geophysical Logging & Other Testing	
16	12150	Aquifer Zone Testing	
17	12200	Worchole 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	Worchole 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	Deinfection and Orientation	
37	19050	Offsite Activities Mob/Demob	
38	19100	Shop	
39	19150	Administration	
40	19550	Other Activities Standby	
41	19600	Waiting for Lost/Broken Tooling	
42	19650	Change Order Activities	
43	08000	Equipment Repairs	
44	09170	Damages	
45	90200	Job Superintendent	
		Lunch	
		TOTAL HOURS	

EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

Continue drilling 32" bit from 1982' bbl to 2013' bbl
Painted climb assist weight assembly. Scrubbed drill house / 3 Moped.
Housekeeping, Clean / organize Dog & Change house & Office trailers. Took
out & dumped Trash.

M. D.

0-21-2
BIB

Client's Signature _____

PAYROLL

— 314 —

Supernatural Fiction:

Date _____

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

DATE: F.P.L. Proposed Turkey Point Units 6 and 7
Docket Nos. 52-040 and 52-041
BY NAME: F.W. 2012-055 Enclosure 2 Page 20 of 47

DATE 01-21-12
SAT NIGHT

JOB # 11771
LOCATION T.O.

PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
Miller	BOSI + GILMORE	X	12		12
K.T	VLAD ISHIMOV	X	12		12
J.M	VICTOR MOISHEV	X	12		12
A.B	ALMA / BURKHONOV	X	12		12

EQUIPMENT DEPLOYED TODAY

Description		Unit #	Status
Working	W/K	Mobilization	MB
Standby	SD	Demobilization	DM
Down In Shop	DS	Available In Yard	AY
Down On Site	OS	Available on Job	AV

1. **UNIVERSITY OF CALIFORNIA, BERKELEY**
 2. **BERKELEY, CALIFORNIA 94720-1980**
 3. **TEL: (415) 495-1500**
 4. **FAX: (415) 495-1500**
 5. **WWW: WWW.CAL.EDU**
 6. **WWW: WWW.BERKELEY.EDU**
 7. **WWW: WWW.BERKELEY.EDU**
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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 & Driv. Pad	
14	12050	Test Hole Drilling	
15	12100	Geophysical Logging & Other Testing	
16	12150	Aquifer Zone Testing	
17	12200	Forehole Abandonment	
18	13050	Production Well Installation	
19	13100	Install Conduits or Pipe	
20	13150	Install Well Hole	
21	13200	Geophysical Logging & Other Testing	
22	13250	Aquifer Zone Testing	
23	13300	Forehole Abandonment/Cement Plugs	
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	Wellbore Washing	
31	14050	Well Development Air Lift and Swap	
32	14100	Disposal of Fluids & Cuttings	
33	14150	Furnish & Install Test Pump and Discharge	
34	14200	Development Pumping	
35	14250	Test Pumping	
36	14300	Directional and Completion	
37	19050	Offsite Activities Mob/Demob	
38	19100	Shop	
39	10150	Administration	
40	19550	Other Activities Standby	
41	19600	Rushing for Lost/Broken Tooling	
42	19650	Change Order Adjustments	
43	88000	Equipment Repairs	
44	90170	Damages	
45	90200	Job Superintendent	
		Lunch	
		TOTAL HOURS	

MATERIALS USED TODAY

Quasi	Deception
	SAFETY MTG;
①	HOUSEKEEPING;
②	IONIZING RADIATIONS;
	HAND SAFETY; PINCH POINT;
	HIGH PRESS LINE; LOADER SAFETY;
	PPE, H.E.P.A.

TIME OF ACTIVITY BY ITEM

[illegible]

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

MAKE CONNECTION RUN SURVE@ 1950' - .2 CONTINUE DRILL
FROM / - 2013' BPL - TO - 2058' BPL RUN SURVE@ 2010'.
SITE CLEAN UP:

01-2-12

PAYROLL

Հանձնարարություն: Երկու քաղաքում

049

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

AGENT FPL

Proposed Turkey Point Units 6 and 7

DATE 1/22/52

JOB#

JOB SITE NAME EW 1

Docket Nos. 52-040 and 52-041
I-2012-055, Enclosure 2 Page 21 of 47

SUN DAY

JOB SITE LOCATION: Turkey Point

PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
D-11 MR	Michael A Ramirez	X	12		12
J.N	John Nieto	X	12		12
J.H	James McDonnell	X	12		12

EQUIPMENT DEPLOYED TODAY

Description	Unit #	Status
Working	WB	Mobilization
Standby	SB	Dismobilization
Down in Shop	DS	Available in Yard
Down on Site	DB	Available on Job

FAST ACCOUNTING OF A CT STATUS 31 ITEM

Item #	Est. Conc.	Letter Description	Hours
1	10000	SHORT OPERATIONS	
2	11100	Drum Molding Machine	
3	11100	Long Molding Machine	
4	12200	Latex Molding	
5	05000	Painting (Interior)	
6	05000	Steel - Overhaul	
7	05000	Machine Room - Equipment	
8	05000	Machine - 1st Changeable	
9	05000	1st Changeable	
10	05000	1st Changeable	
11	05000	1st Changeable	
12	05000	1st Changeable	
13	05000	1st Changeable	
14	05000	1st Changeable	
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list #	check points
	Safety Meetings
1)	vehicle safety
2)	preventive Maintenance
	Pinch points, Loader safety, wildlife, eyes on Path,
	PPE, electrical safety, High pressure hoses.

REFERENCE AND CITING

[illegible]

COMMUNITY - CREDIT - COMPUTERS - CHANGES - CHANGING COURSES

Ran Survey @ 2010' had gas 0.5" Make connection. 2000'
Continue drilling with 32" bit from 2058 bpi. to 2100'
Loader training, Horse keeping, tightened filter on survey tool, Worked on
loader hose leak, Put up climb assist weight.

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT F.P.L. Proposed Turkey Point Units 6 and 7
Docket Nos. 52-040 and 52-041
CASE NAME FW-1 L-2012-055 Enclosure 2 Page 22 of 47

DATE 01-22-12
SUN NIGHT

JOB # 11771

PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
DRILLING	BOSI + GULONOV	X	12		12
G.H	GEORGE HAGA	X	12		12
A.D	ANDREY POPOV	X	12		12
J.Y	JUSTIN YERMANIS.	X	8		8
V.M	VICTOR MOISYEV,	X	8		8

EQUIPMENT DEPLOYED TODAY

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

THESE RESULTS ARE IN ACCORD WITH THE FINDINGS OF OTHER STUDIES.

Item #	Cost Code	Library/Account #	Library
1	11004	Small Gas Station Lot	
2	11104	General Model Entrance	
3	11124	Isk. Entrance Gate	
4	11314	Isk. Entry Ramping	
5	0900	Roofing - Asphalt Shale	
6	0900	Roof - Overhead	
7	0907	Waterproofing - Driveway	
8	11794	Roofing - Shingle Gable End	
9	11704	Sh. Gable End	
10	11180	General Second Wall	
11	11104	General Second Wall	
12	11460	General Third Wall	
13	11180	Install Roadway & Drift Pad	
14	11104	Trim Under Siding	
15	11400	Single Siding - Vinyl Siding	
16	11314	General Siding - Vinyl	
17	11200	Roofing - Asphalt Shale	
18	11104	General Siding - Vinyl	
19	11200	Roofing - Asphalt Shale	
20	11180	General Siding - Vinyl	
21	11200	Roofing - Asphalt Shale	
22	11200	Roofing - Asphalt Shale	
23	11200	Roofing - Asphalt Shale	
24	11200	Roofing - Asphalt Shale	
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73	11200	Roofing - Asphalt Shale	
74	11200	Roofing - Asphalt Shale	
75	11200	Roofing - Asphalt Shale	
76	11200	Roofing - Asphalt Shale	
77	11200	Roofing - Asphalt Shale	
78	11200	Roofing - Asphalt Shale	
79	11200	Roofing - Asphalt Shale	
80	11200	Roofing - Asphalt Shale	
81	11200	Roofing - Asphalt Shale	
82	11200	Roofing - Asphalt Shale	
83	11200	Roofing - Asphalt Shale	
84	11200	Roofing - Asphalt Shale	
85	11200	Roofing - Asphalt Shale	
86	11200	Roofing - Asphalt Shale	
87	11200	Roofing - Asphalt Shale	
88	11200	Roofing - Asphalt Shale	
89	11200	Roofing - Asphalt Shale	
90	11200	Roofing - Asphalt Shale	
91	11200	Roofing - Asphalt Shale	
92	11200	Roofing - Asphalt Shale	
93	11200	Roofing - Asphalt Shale	
94	11200	Roofing - Asphalt Shale	
95	11200	Roofing - Asphalt Shale	
96	11200	Roofing - Asphalt Shale	
97	11200	Roofing - Asphalt Shale	
98	11200	Roofing - Asphalt Shale	
99	11200	Roofing - Asphalt Shale	
100	11200	Roofing - Asphalt Shale	

MATERIALS USED TODAY

Quantity	Description
	SAFETY MTC!
①	H.I.R.A.
②	T.O.H 32" BIT + WEIGHT!
	PINCH POINT: HAND SAFETY!
	LOADED SAFETY!

TIME OF ACTIVITY BY ITEM

[illegible]

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

NO. 32" BIT / FORM - 2098' BPL - TO - 2000' BPL.
R.D. SURVEY @ 2070'. 3. T.I.H 32" BIT +
WEIGHT; T.I.H 28" BIT + ① STABILIZER, KILL
well w/ 4 bags salt

4-22-12

PAYROLL

Supplementary Materials

• DRY •

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT FPL

Proposed Turkey Point Units 6 and 7

DATE 1/23/2012
MAY 05

103 1177

JOB SITE NAME EW-1

Docket Nos. 52-040 and 52-041
L-2012-055 Enclosure 2 Page 23 of 47

CHERRY HILL Turkey Point

PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
Prill JR	Michael A. Ramirez	X	12		12
JN	Juan Nieto	X	12		12
Jim	James McDunnell	X	12		12
AB	Akmal Burkhayev	X	12		12

MATERIALS USED TODAY

Quantity	Description
	Safety Meetings
1)	Tripping in the hole
2)	PPE Protection & Prevention
	PPE, high pressure hoses, loader safety,
	rigging loads.

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

T.I. H. 28" bit & 32 Std. D.P. try tag to 2900' bpl. Pipe stuck / then freed @ 2874 bpl. Circulated down to 2895 bpl. Air pressure spiked Surged Air, injected Air line packed w/cuttings. went Back to circulating @ 2883 bpl.

IDENTIFYING SERVICE TOPICS

Description		Unit #	Status
Working	WK	Mob # 2280N	MB
Standby	SB	Demo # 2280N	DM
Down In Shop	DS	Available In Yard	AY
Down on Site	DN	Available on Job	AV

TIME OF ACTIVITY BY ITEM

[illegible]

SALE OF GOVERNMENT LANDS BY BIDDING

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	Trailing - Overhead	
6	0006	Shop - Overhead	
7	0007	Maintenance - Overhead	
8	11250	Trailing - Job Chargeable	
9	11300	Site Clean up	
10	11350	Install Sound Walls	
11	11400	Install Ocean Pad	
12	11450	Install Surface Casing	
13	11500	Install Roadway & Dr# Pad	
14	12050	Test Hole Drilling	
15	14100	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	Disposition 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	Onsite Activities Mob/Demob	
38	19100	Shop	
39	19150	Administration	
40	19196	Other Activities Standby	
41	19600	Fishing for Lost/Broken Tooling	
42	19850	Change Order Activities	
43	20000	Equipment Repairs	
44	90170	Damages	
45	90200	Job Superintendent	
		Lunch	
		TOTAL HOURS	

M. P. 13

Client's Signature

PAYROLL

Standardized Reporting

Acc Toule

1-24-202

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT **FPL**

Proposed Turkey Point Units 6 and 7

~~Docket Nos. 52-040 and 52-041~~

DATE 1/23/12

REF 1771

JOB SITE NAME *EW-1*

L-2012-055 Enclosure 2 Page 24 of 47

mon. Night

JOBSITE LOCATION *T.A.*

ALSO AVAILABLE FROM US TO DATE

HEALTH CARE DELIVERY POLICY

DAILY ACCOUNTING OF ACTIVITIES BY ITEM. N

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
DRIVER	GEORGE HAGA	X	12		12
JX	JUSTIN YEOMANIS	X	12		12
AP.	ANDREY POPOV	X	12		12

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

Item #	Cost Code	Labor Activity	Hours
1	10000	Short Duration Job	
2	11100	Ons to 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	11330	Install Sound Walls	
11	11400	Install Decon Pad	
12	11450	Install Surface Casing	
13	11500	Install Roadway & Drift Pad	
14	11850	Test Hole Drilling	
15	12100	Geophysical Logging & Other Testing	
16	12150	Aquifer Zone Testing	
17	12200	Wellbore Abandonment	
18	13050	Production Well Installation	
19	13100	Install Conductor Pipe	
20	13150	Drill Pilot Hole	
21	13200	Geophysical Logging & Other Testing	
22	14250	Aquifer Zone Testing	
23	14300	Wellbore Abandonment/Concrt Plugs	
24	14350	Reaming	
25	14400	Under Reaming	
26	14450	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	Purchase & 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	Dismantles	
45	90200	Job Superintendent	
		Lunch	
		TOTAL HOURS	

MATERIALS USED TODAY

Quantity	Description
	SAFETY MEETINGS:
	#1 NIGHT TIME OPERATIONS.
	#2 T.O.H. (TRIPPING OUT OF HOLE)
	PPE, PINCH POINTS, EAR PROTECTION
	LOADER SAFETY.

TIME OF ACTIVITY BY ITEM #

[illegible]

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

Start drilling from 2885 bpl to 2900 bpl w/a 38 bit. Lose of air pressure while drilling at last speed pick up 45 regain air pressure. Start to Chilled at last 10 feet until hole is clean pick up 30 ft. Run down to T.D. Start to fire end of hole

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT FOL

Proposed Turkey Point Units 6 and 7
~~Docket Nos. 52-040 and 52-041~~
L-2012-055 Enclosure 2 Page 25 of 47

DATE 1-24-2012
Tue. Days

JOB # 11771
LOCATION Turkey (Pepi)

JORISITE NAME 24-1

PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
SMITH	Michael A. Ramirez	X	12		12
JW	Juan Nieto	X	12		12
JH	James McDonnell	X	12		12
A.B.	AKmal Burkhonov	X	12		12

MATERIALS USED TODAY

Date	Description
	Safety Meetings.
1)	Eye Protection
2)	Spring Tongs / Pinch Points
	mach/welder safety slip-trip-fall, PPE over head dangers, sun safety.

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

Tripout of Hole 28" bit / 18 Std D.P. / 1 stabilizer. Add salt
Kill well 3 bags salt. Break apart B.H.A. Log hole / help
Logger's.

EQUIPMENT DEPLOYED TODAY

Description		Unit #	Status
Working	WK	Mobilization	MB
Standby	SD	Demobilization	DM
Down In Shop	DS	Available In Yard	AY
Down on Site	DN	Available on Job	AV

TIME OF ACTIVITY BY ITEM

[illegible]

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 & Drift 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	Lost Pumping	
36	14300	Dismantle and Reformation	
37	19050	Mobile Activities Mob/Demob	
38	19100	Shop	
39	19150	Administration	
40	19550	Other Activities Standby	
41	19600	Waiting for Lost/Broken Tooling	
42	19650	Change Order Activities	
43	88000	Equipment Repairs	
44	90170	Dismisses	
45	90200	Job Superintendent	
		Lunch	
		TOTAL HOURS	

M.T. →
 Localized Equilibrium
 ACC 05/10/82 09

Client's Signature _____

PAYROLL

Supplemental Table 1

- 211



LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT F.P.2 Proposed Turkey Point Units 6 and 7
 Docket Nos. 52-040 and 52-041
 L-2012-055 Enclosure 2 Page 27 of 47

DATE 01-25-2012
WED DAYS

JOB # 11221
 JOBSITE LOCATION T.P.

PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
DRILLER	Bos't Gulomov	X	12		12
V.I.	VLAD ISHIMOV	X	12		12
V.M.	VICTOR MOISYEV	X	12		12
A.B.	ALMAI BURKHONOV	X	12		12

TOOLMENT EMPLOYED TODAY

Description	Unit #	Status
Working	WK	Mobile Location
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	11000	Onsite Mob/Demob	
3	11150	Job Preparation	
4	11200	Safety Meeting	
5	0005	Training - Overhead	
6	0006	Shop - Overhead	
7	0007	Maintenance - Overhead	
8	11250	Training - Job Chargeable	
9	11300	Site Clean up	
10	11350	Install Sound Walls	
11	11400	Install Decan Pad	
12	11450	Install Surface Casing	
13	11500	Install Roadway & Driv Pad	
14	12050	Test Hole Drilling	
15	12100	Geophysical Logging & Other Testing	
16	12150	Aquifer Zone Testing	
17	12200	Morehole Abandonment	
18	12300	Production Well Installation	
19	12350	Install Conductor Pipe	
20	12400	Install Pilot Hole	
21	12450	Geophysical Logging & Other Testing	
22	12500	Aquifer Zone Testing	
23	12550	Morehole Abandonment/ Cement Plugs	
24	12600	Beamings	
25	12650	Under Roaming	
26	12700	Install Casing	
27	12750	Install Screen	
28	12800	Travel Pack The Well	
29	12850	Install Annular Seal	
30	12900	Water Watching	
31	12950	Well Development Air Lift and Swab	
32	13000	Disposal of Fluids & Cuttings	
33	13050	Furnish & Install Test Pump and Discharge	
34	13100	Development Pumping	
35	13150	Test Pumping	
36	13200	Disinfection and Chlorination	
37	13250	Offsite Activities Mob/Demob	
38	13300	Shop	
39	13350	Administration	
40	13400	Other Activities Standby	
41	13450	Waiting for Lost/Broken Tooling	
42	13500	Change Order Activities	
43	88000	Equipment Repairs	
44	90170	Damages	
45	90200	Job Superintendent	
		Turnin	
TOTAL HOURS			

MATERIALS USED TODAY

Quantity	Description
	SAFETY MTC:
①	EMPLOYEE RESPONSIBILITIES:
②	DRILLER/OPERATOR/FORMER ORIENTATION ON RIGS:
③	PROTECTING THE HOLE:
	HAND SAFETY: PINCH POINT:
	LOADER SAFETY: PPE: H.I.T.R.A.

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	
		AM PM	
		AM PM	

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

Waiting on the orders: Help Ellie's - Build Clamps for the picker
 Pumped out the slurry pit + Run DUMP TRUCK (4) Housekeeping,
 Site clean up. Replaced Ring on the crown.

01-25-12

Client's Signature

PAYROLL

Layne Christensen

2012

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

Project:	Florida Power & Light Company Miami-Dade County, Florida Exploratory Well EW-1
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
EW-1 Pad Monitoring Well Water Quality Data
Northeast Pad Monitoring Well
(NE-EW PMW)

Date	Time (hours)	Depth to Water (ft. btoc)	Water Elevation (ft. NAVD 88)	Specific Conductance (umhos/cm)	Chloride (mg/L)	TDS (mg/L)	Temperature (degrees C)	Remarks
4/21/2011	1108	10.49	-1.61	78,700	32,200	57,000	29.8	Background Sampling
4/29/2011	1157	10.68	-1.80	80,400	29,900	53,800	30.4	
5/5/2011	1157	11.40	-2.52	81,400	27,500	52,350	31.2	
5/11/2011	1309	11.00	-2.12	76,800	31,600	51,200	29.7	
5/19/2011	0958	10.48	-1.60	72,600	35,600	51,200	29.5	
5/26/2011	1050	10.76	-1.88	71,360	29,500	52,900	29.7	
6/2/2011	1134	10.78	-1.90	71,700	29,000	55,700	29.6	
6/9/2011	1128	10.61	-1.73	69,700	32,300	50,650	29.3	
6/16/2011	0958	10.35	-1.47	69,300	33,000	53,450	29.5	
6/23/2011	1028	10.41	-1.53	69,400	30,600	55,600	29.5	
6/30/2011	0928	10.15	-1.27	70,300	27,600	51,950	29.2	
7/8/2011	1210	9.00	-0.12	72,570	30,100	54,150	29.9	
7/14/2011	1338	9.75	-0.87	76,400	27,200	54,550	29.9	
7/21/2011	1039	9.35	-0.47	72,200	32,600	49,760	29.7	
7/28/2011	1119	9.51	-0.63	71,600	30,200	54,250	29.7	
8/4/2011	1249	9.70	-0.82	64,400	31,500	53,850	27.5	
8/11/2011	1059	9.25	-0.37	73,900	29,500	57,150	29.6	
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	

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			MHC			
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	
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 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		
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									

Pilot Hole			Reamed Hole		
Date	Depth (feet bpl)	Inclination (degrees)	Date	Depth (feet bpl)	Inclination (degrees)
5/13/2011	90	0.2	5/20/2011	90	0.5
5/14/2011	180	0.4	5/24/2011	180	0.4
6/3/2011	270	0.5	6/6/2011	270	0.0
5/29/2011	345	0.3	6/8/2011	360	0.1
5/29/2011	435	0.4	6/9/2011	450	0.2
5/30/2011	524	0.4	6/10/2011	540	0.3
5/30/2011	614	0.0	6/12/2011	630	0.5
5/31/2011	704	0.2	6/14/2011	720	0.4
5/31/2011	794	0.3	6/15/2011	810	0.4
5/31/2011	884	0.3	6/16/2011	900	0.3
6/1/2011	974	0.5	6/18/2011	990	0.4
6/1/2011	1,064	0.5	7/23/2011	1,080	0.1
7/1/2011	1,154	0.6	7/25/2011	1,170	0.4
7/1/2011	1,244	0.3	7/26/2011	1,260	0.5
7/1/2011	1,334	0.4	7/27/2011	1,350	0.2
7/2/2011	1,424	0.4	7/29/2011	1,440	0.3
7/2/2011	1,514	0.5	8/10/2011	1,530	0.5
7/3/2011	1,604	0.5	12/7/2011	1,590	0.5
8/13/2011	1,664	0.1	12/8/2011	1,650	0.5
8/15/2011	1,724	0.0	12/9/2011	1,710	0.5
8/15/2011	1,784	0.1	12/10/2011	1,770	0.5
8/16/2011	1,844	0.4	12/11/2011	1,830	0.5
8/16/2011	1,904	0.4	12/13/2011	1,890	0.3
8/17/2011	1,964	0.1	12/29/2011	1,950	0.5
8/19/2011	2,024	0.3	1/2/2012	2,010	0.4
8/19/2011	2,084	0.5	1/2/2012	2,070	0.3
8/20/2011	2,144	0.2	1/3/2012	2,130	0.5
8/20/2011	2,204	0.0	1/4/2012	2,190	0.4
8/22/2011	2,264	0.0	1/5/2012	2,250	0.3
8/25/2011	2,324	0.1	1/10/2012	2,310	0.0
8/25/2011	2,384	0.1	1/11/2012	2,370	0.3
8/26/2011	2,444	0.2	1/11/2012	2,430	0.1
8/26/2011	2,504	0.0	1/12/2012	2,490	0.3
8/29/2011	2,564	0.4	1/12/2012	2,550	0.4
8/31/2011	2,624	0.3	1/13/2012	2,610	0.4
9/4/2011	2,684	0.4	1/13/2012	2,670	0.3
9/4/2011	2,744	0.4	1/13/2012	2,730	0.3
9/4/2011	2,804	0.3	1/14/2012	2,790	0.4
9/5/2011	2,864	0.4	1/14/2012	2,850	0.3
9/5/2011	2,924	0.3	1/21/2012	1,950	0.2
9/5/2011	2,984	0.4	1/22/2012	2,010	0.5
9/6/2011	3,044	0.1	1/22/2012	2,070	0.3
9/6/2011	3,104	0.5			
9/7/2011	3,164	0.4			

bpl = below pad level

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

Florida Power & Light Company Turkey Point Exploratory Well EW-1 Daily Kill Material Log				
Date	Depth (feet bpl)	Kill Used	Approximate Volume (gallons)	Approximate Quantity (pounds)
9/22/2011	3228	Salt		4,000
10/9/2011	3220	Salt		6,000
10/10/2011	3220	Salt		6,000
10/12/2011	3227	Salt		4,000
10/23/2011	3234	Salt		6,000
10/29/2011	3211	Salt		6,000
11/7/2011	3223	Salt		6,000
11/19/2011	3232	Salt		4,000
11/28/2011	3232	Salt		4,000
12/6/2011	3232	Salt		6,000
12/14/2011	1960	Salt		8,000
12/15/2011	1960	Salt		8,000
1/5/2012	2270	Salt		8,000
1/9/2012	2270	Salt		2,000
1/15/2012	2900	Salt		6,000
1/16/2012	2900	Salt		4,000
1/22/2012	2900	Salt		8,000
1/24/2012	2900	Salt		6,000
feet bpl = feet below pad level				



X-Y CALIPER LOG

Company Layne Christensen Company Well Turkey Point EW-1 Field Florida City County Miami-Dade State/Prv Florida	Company	Layne Christensen Company		
	Well	Turkey Point EW-1		
	Field	Florida City		
	County	Miami-Dade	State/Prv	Florida
	Location	FPL Turkey Point Power Plant LAT: 25 25' 19" N LONG: 80 20' 08" W McNabb Hydrogeologic Consulting, Inc.		Other Services NONE
	Permanent Datum	Pad Level	Elevation	
	Log Measured From	Pad Level		
	Drilling Measured From	Pad Level		
			Elevation K.B. D.F. G.L.	

Date	24-JAN-2012	
Run Number	TEN	
Depth Driller	2900'	
Depth Logger	2900'	
Bottom Logged Interval	2900'	
Top Log Interval	1475'	
Open Hole Size	28"/32"	
Type Fluid	H2O	
Density / Viscosity	NA/NA	
Max. Recorded Temp.	NA	
Estimated Cement Top	SURFACE	
Time Well Ready	13:45 1/24/2012	
Time Logger on Bottom	14:00 1/24/2012	
Equipment Number	MVGS-1	
Location	Ft. Myers	
Recorded By	S.Miller/C.Miller	
Witnessed By	M.Classen (ASRus)	A.Towel (LCC)

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	12.25"	SURFACE	255'	FIVE	12.25"	1090'	1655'
TWO	62.5"	SURFACE	259'	SIX	42.5"	1090'	1542'
THREE	12.25"	255'	1090'	SEVEN	12.25"	1535'	3230'
FOUR	52.5"	255'	1095'	EIGHT	32"	1535'	2100'
Casing Record		Size	Wgt/Ft	Top		Bottom	
Surface String		64"	0.375" WT	SURFACE		33'	
Prot. String		54"	0.375" WT	SURFACE		255'	
Production String		44"	0.375" WT	SURFACE		1090'	
Liner		34"	0.375" WT	SURFACE		1535'	
Invoice No.		2012019	LTP1B.db	8fld/las/pdf		* FINAL PRINT *	

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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.

Proposed Turkey Point Units 6 and 7
Docket Nos. 52-040 and 52-041
L-2012-055 Enclosure 2 Page 37 of 47

Comments

MAXIMUM Caliper Arm Extensions: 51"

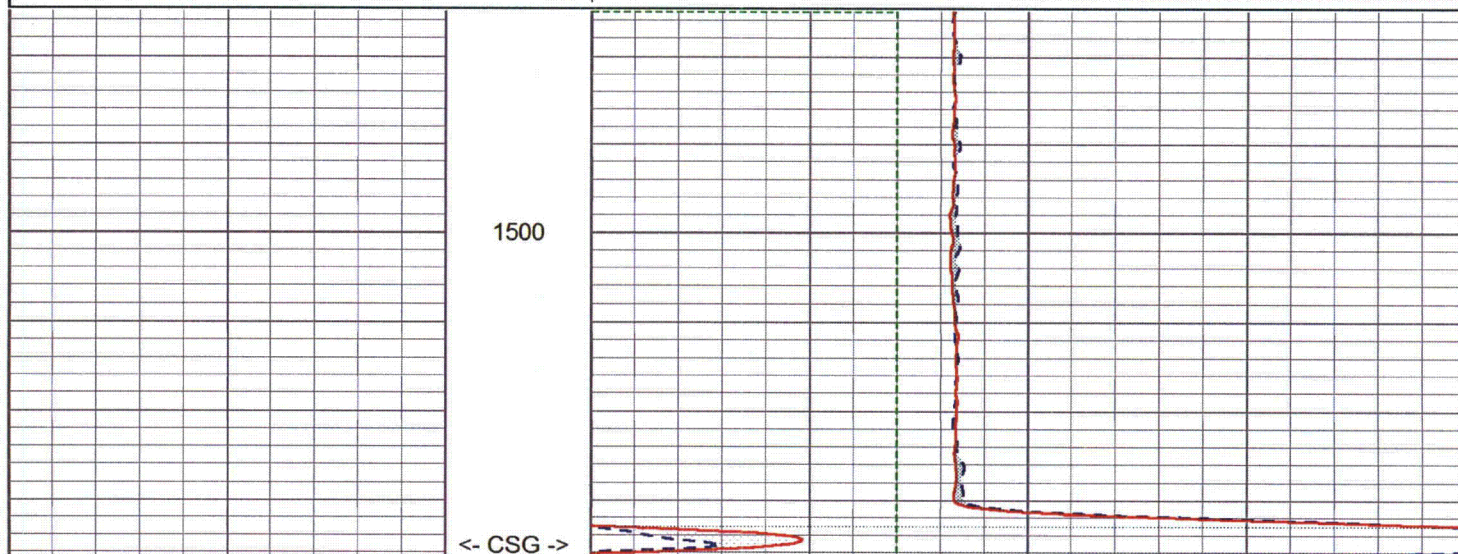
BOREHOLE RECORD
RUN SIZE FROM TO
NINE 28" 2100' 2900'

MV
Geophysical

MAIN PASS

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Presentation Format: xy2545-5
Dataset Creation: Tue Jan 24 15:28:56 2012
Charted by: Depth in Feet scaled 1:240

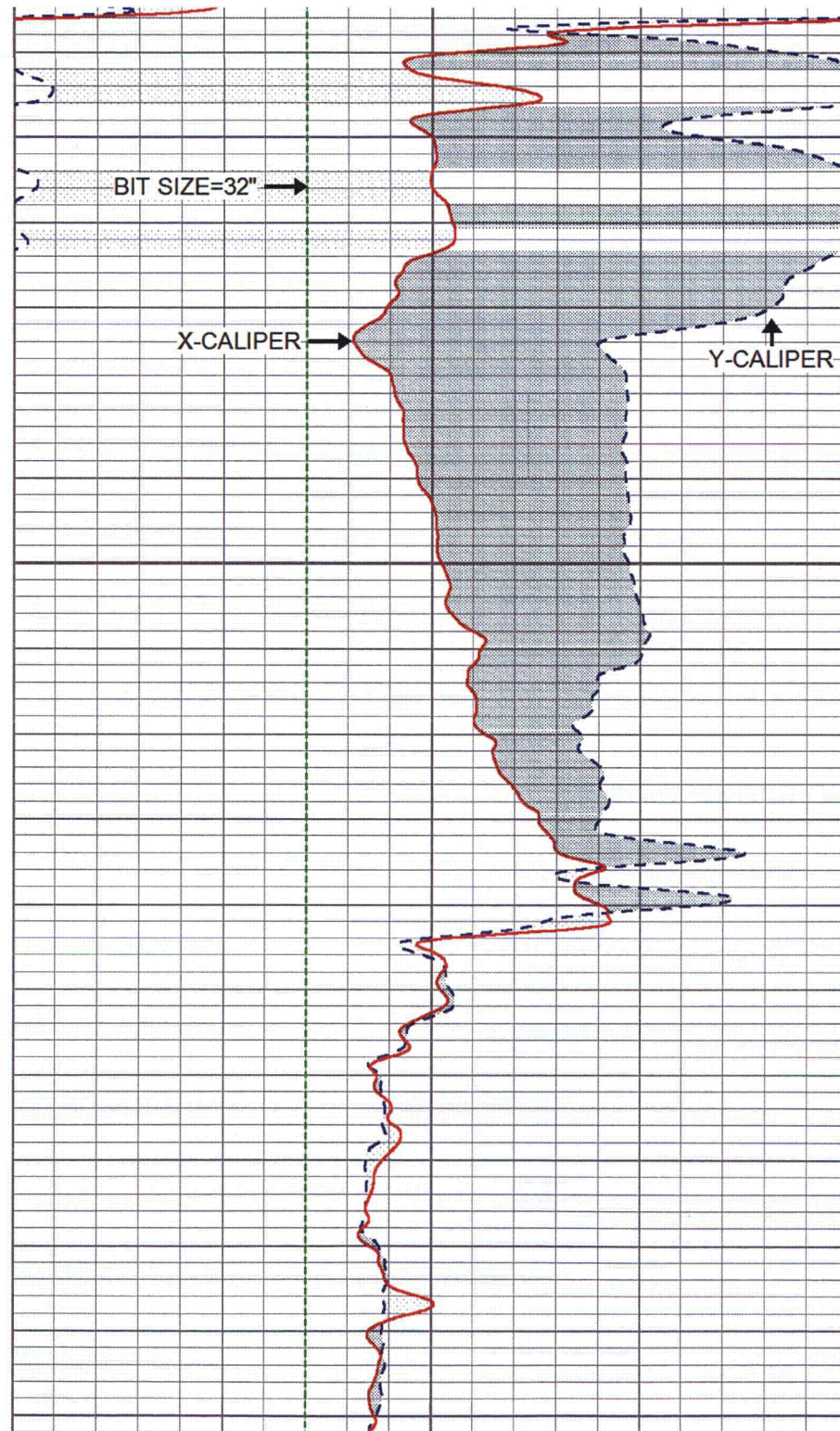
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25	BIT SIZE (in)	45



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1600

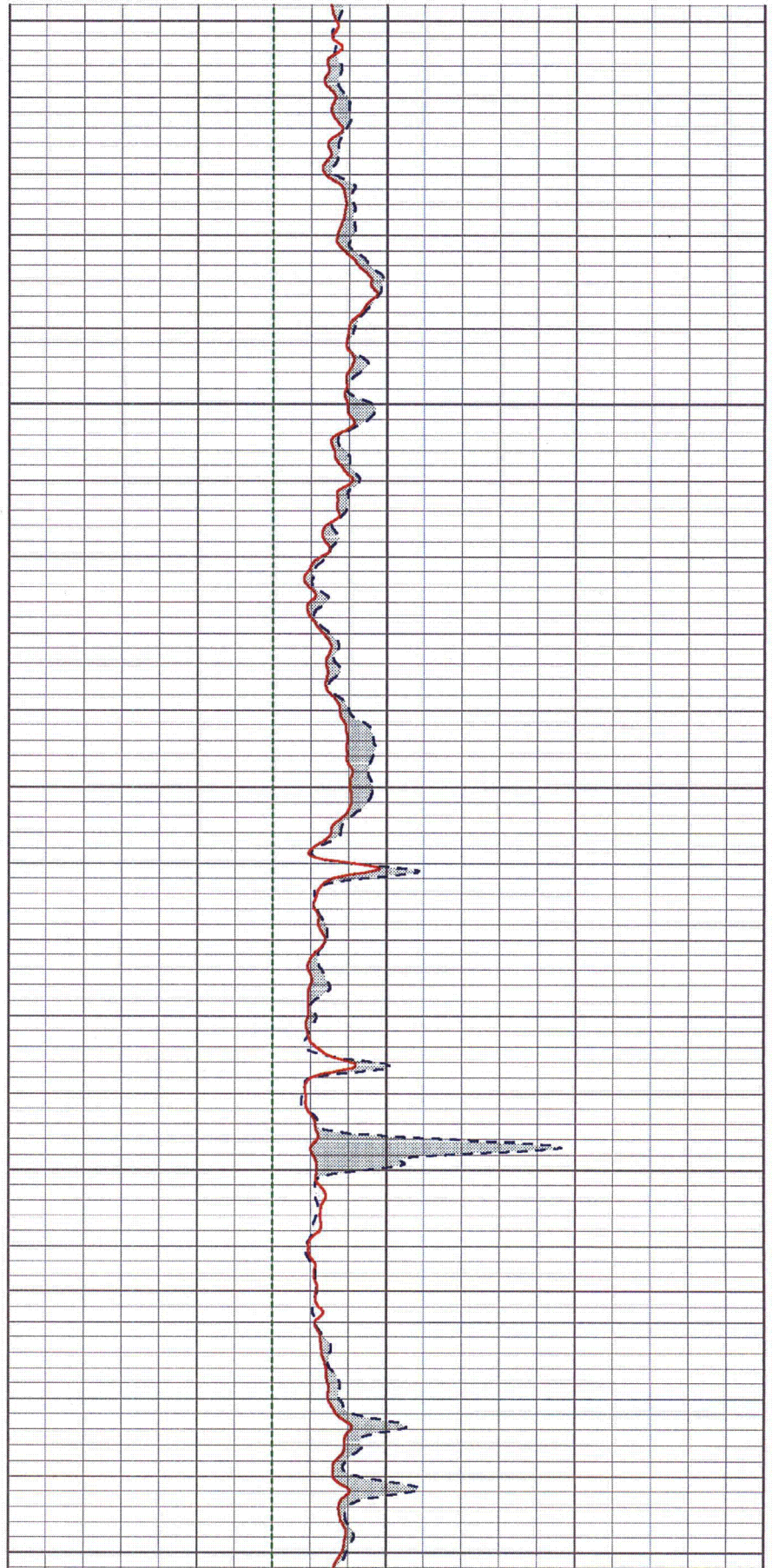
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1700

1800

1900

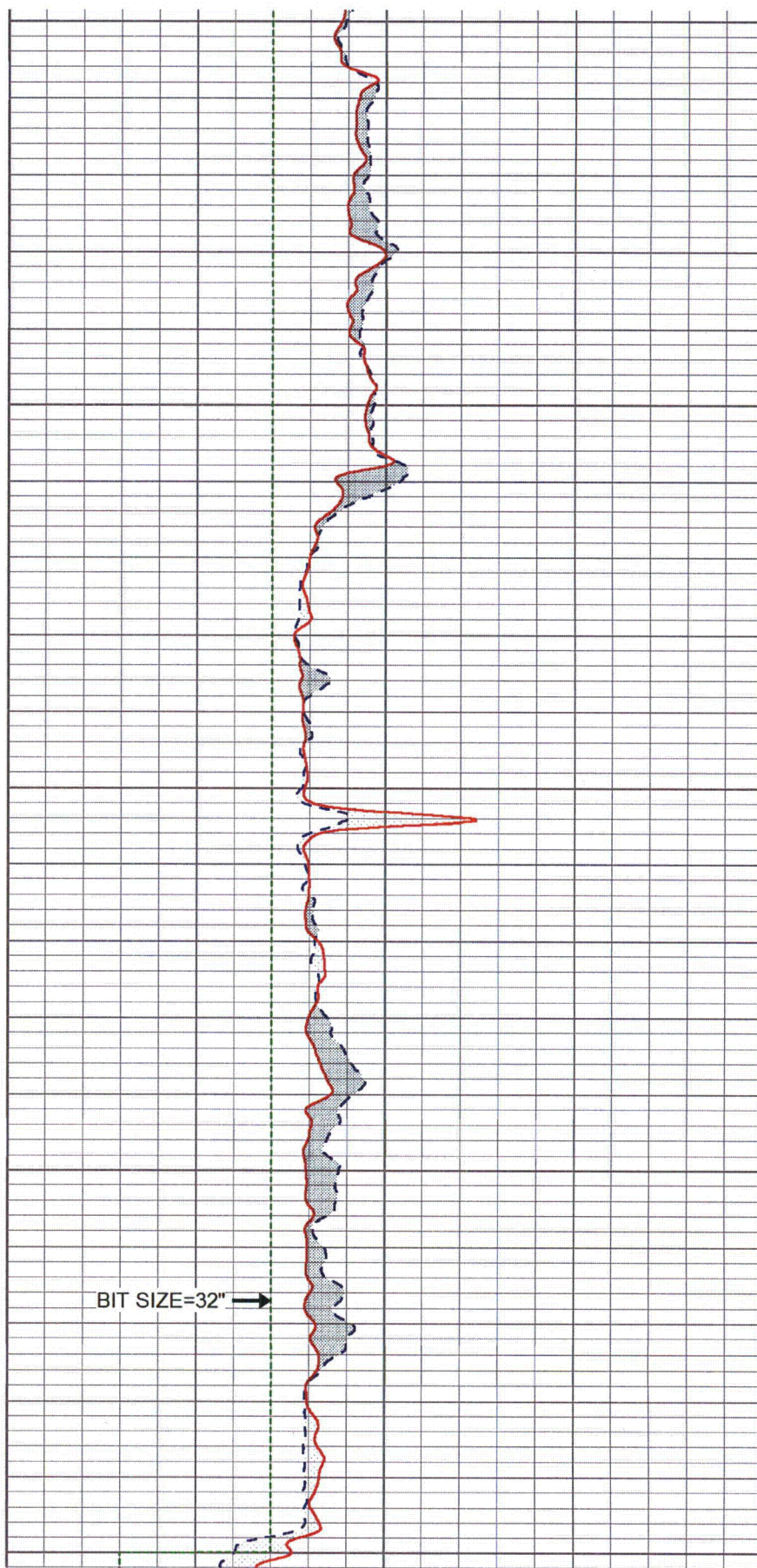


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2000

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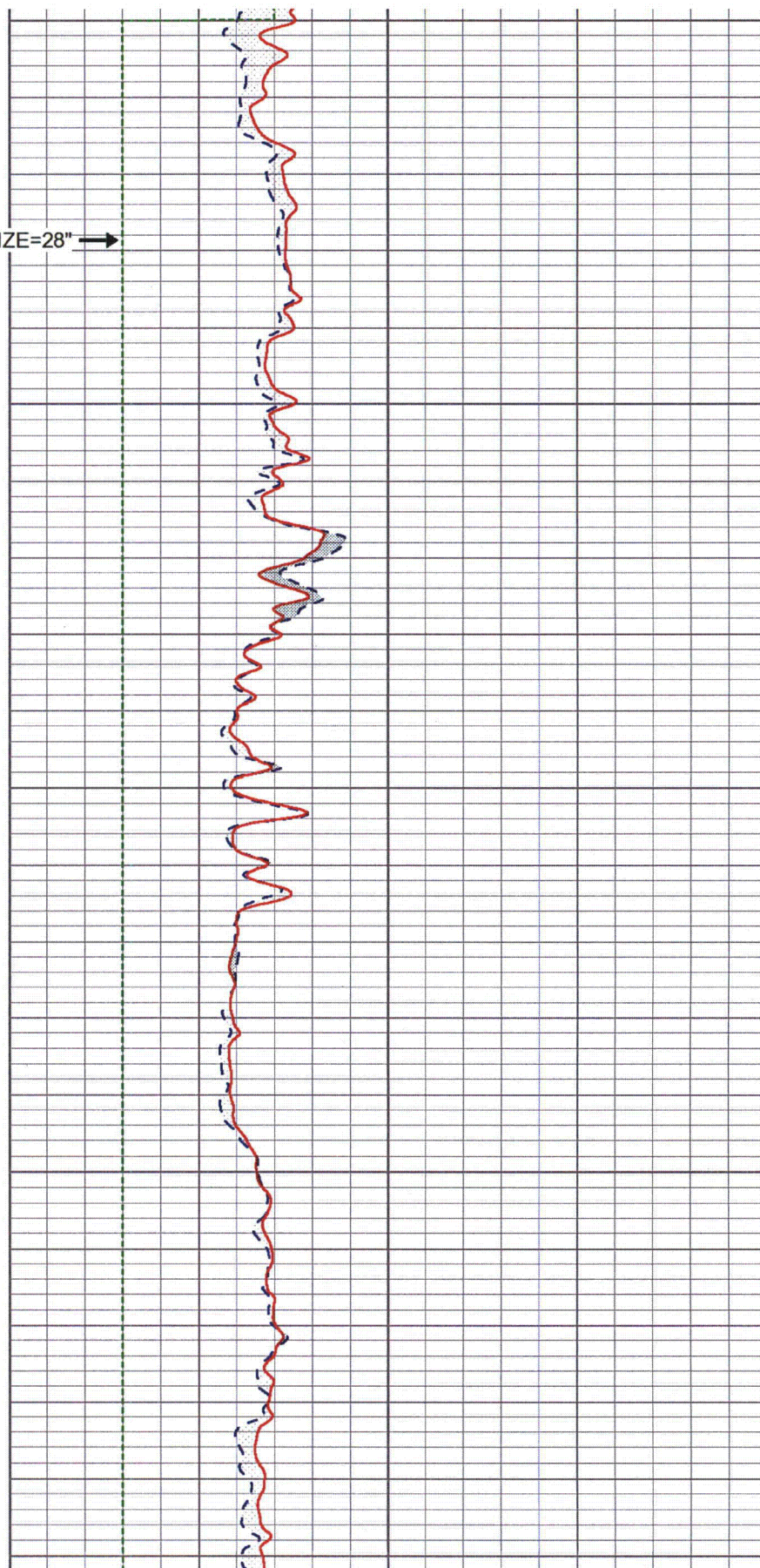


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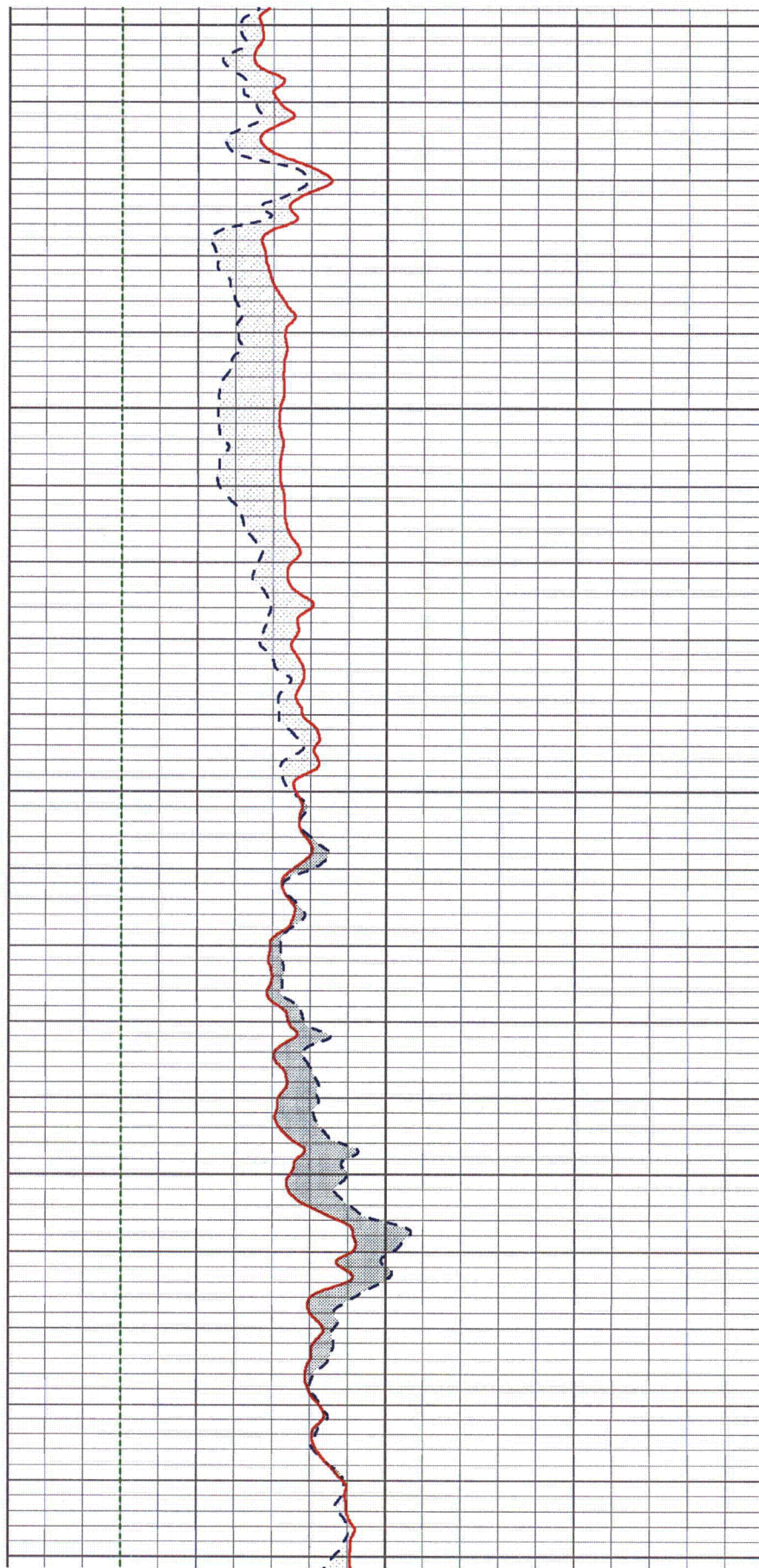
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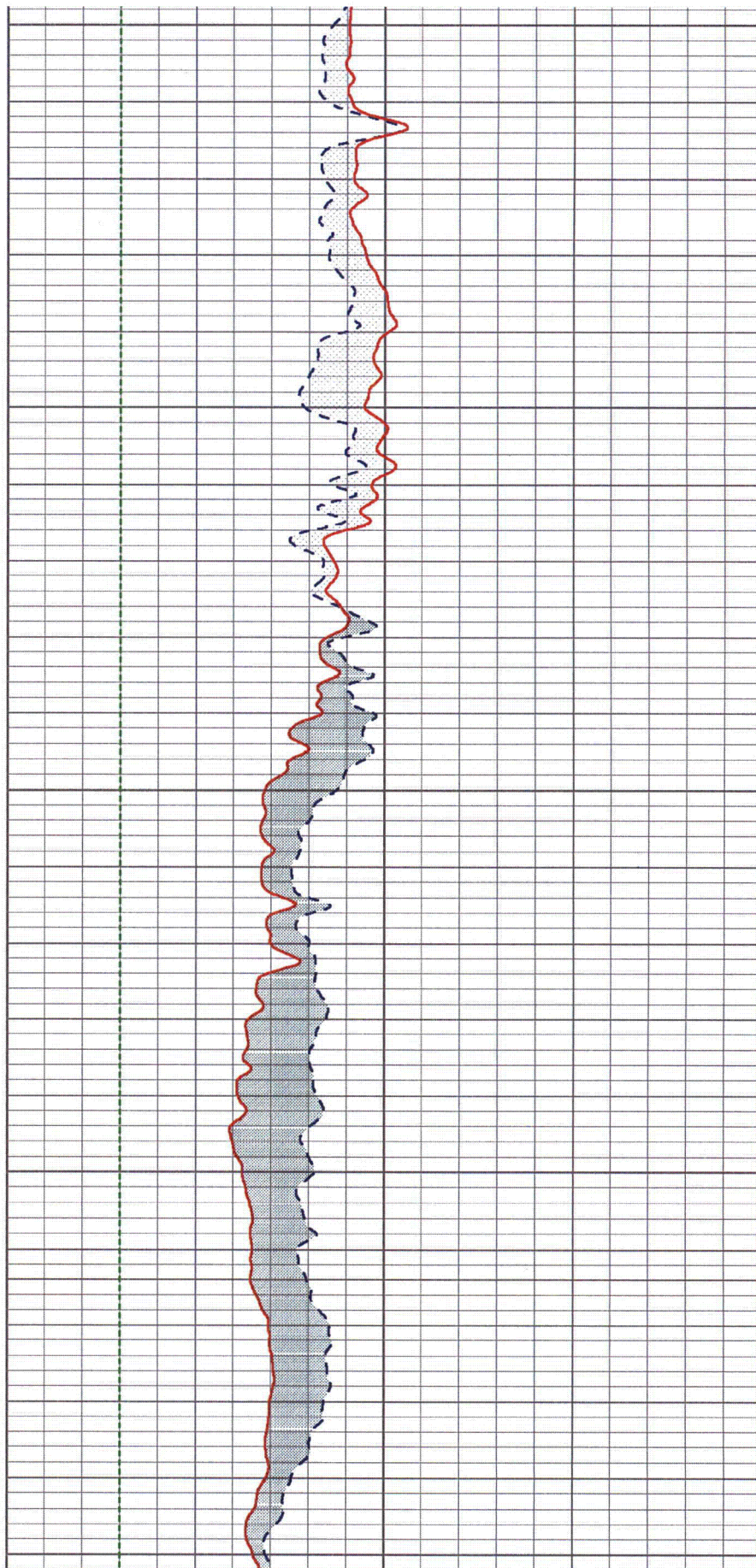
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2500

2600

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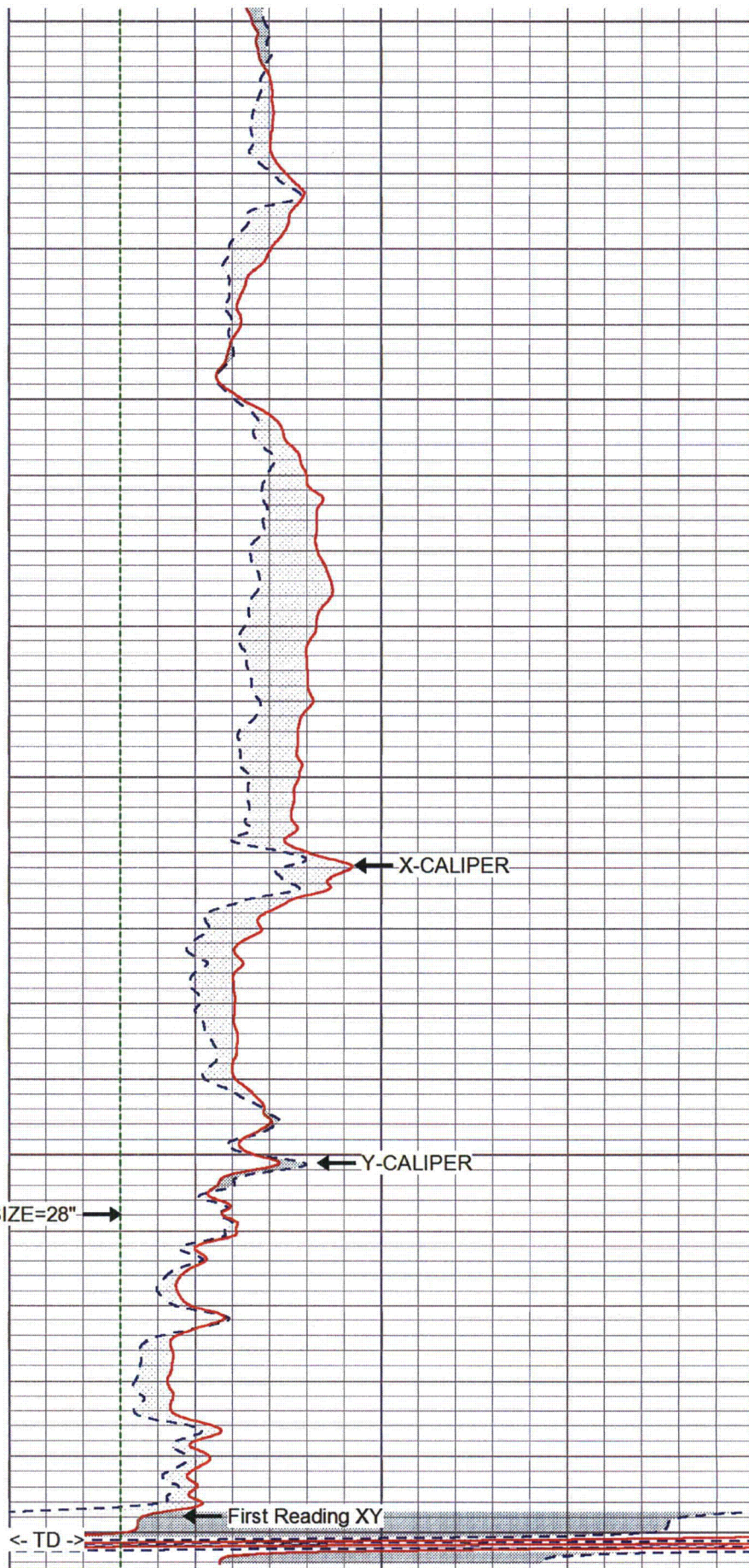


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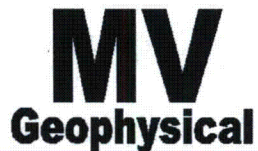
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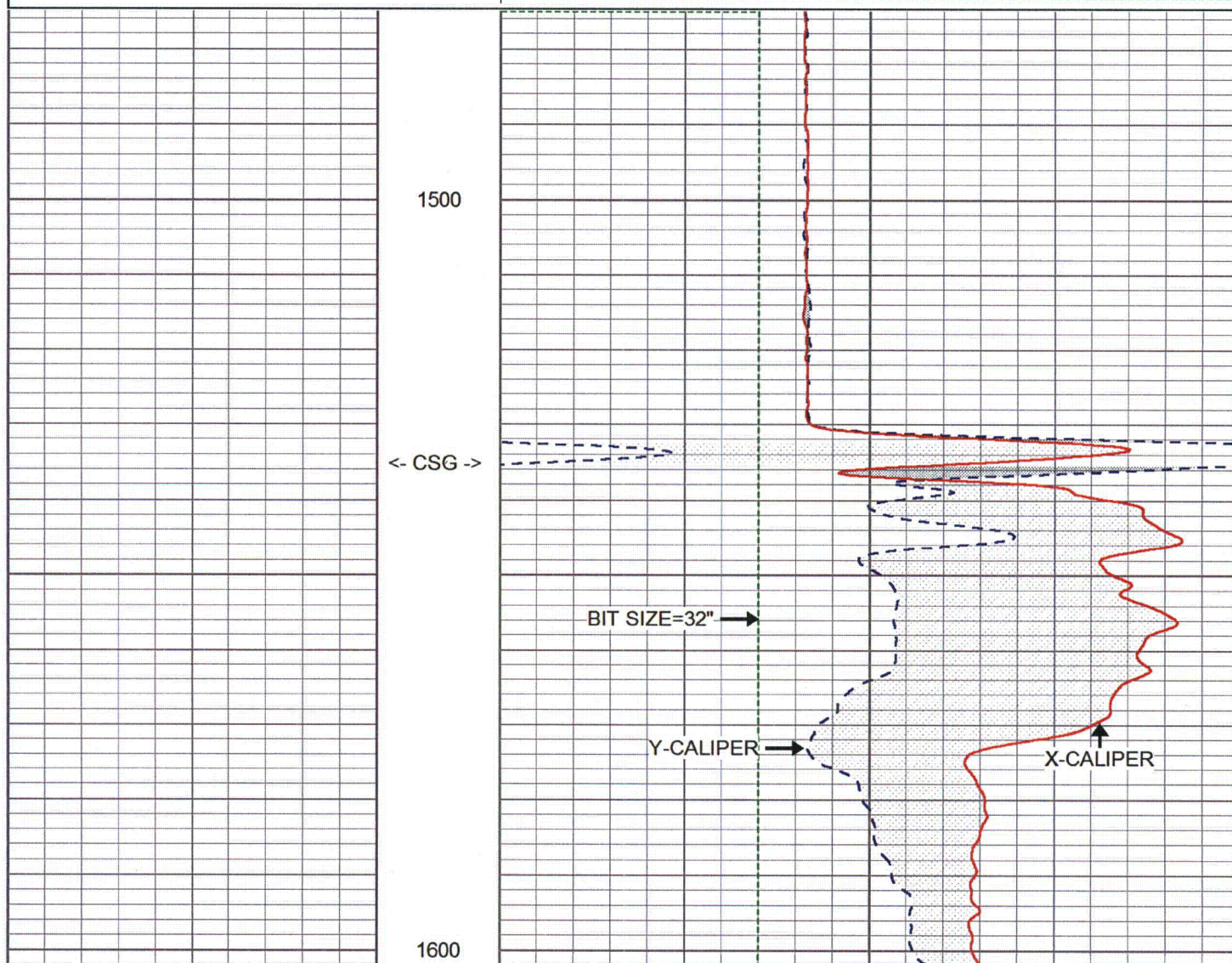
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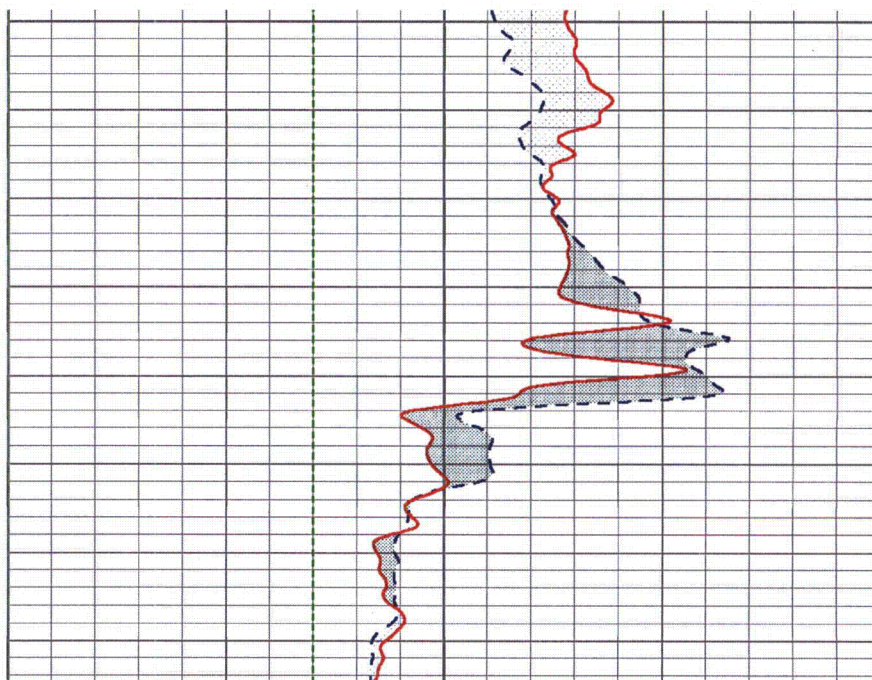
REPEAT SECTION

Database File: ltp1b.db
Dataset Pathname: run12/REPEAT
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Charted by: Depth in Feet scaled 1:240

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25	BIT SIZE (in)	45



1600



25	Y-CALIPER (in)	45
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25	BIT SIZE (in)	45

Calibration Report

Database File: ltp1b.db
Dataset Pathname: run12/pass2
Dataset Creation: Tue Jan 24 15:16:29 2012 by Log VER_5.3

XY Caliper Calibration Report

Serial Number:	01L		
Tool Model:	XYCL		
Performed:	Tue Jan 24 15:22:18 2012		
Small Ring:	33.25	in	
Large Ring:	51	in	
	X Caliper	Y Caliper	
Reading with Small Ring:	883	904	cps
Reading with Large Ring:	1133.3	1074.8	cps
Gain:	0.0709149	0.103923	
Offset:	-29.4878	-60.6961	

Gamma Ray Calibration Report

Serial Number:	01	
Tool Model:	GROH	
Performed:	Tue Jan 17 14:42:44 2012	
Calibrator Value:	120	GAPI
Background Reading:	14.164	cps
Calibrator Reading:	132.338	cps
Sensitivity:	1.01545	GAPI/cps

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
GR	7.60		GR-GROH (01)	2.75	3.50	40.00
			XYC-XYCL (01L)	6.60	3.50	87.00
XCAL YCAL	2.25 2.25					

Dataset: ltp1b.db: field/well/run12/pass2
 Total Length: 9.35 ft
 Total Weight: 127.00 lb
 O.D. 3.50 in

Proposed Turkey Point Units 6 and 7
Docket Nos. 52-040 and 52-041
L-2012-055 Enclosure 3 Page 1 of 50

Enclosure 3

Florida Power & Light Company Turkey Point Units 6 & 7
Exploratory Well Project; Permit #0293962-001-UC
Weekly Construction Summary #39 dated February 3, 2012

WEEKLY CONSTRUCTION SUMMARY



McNabb Hydrogeologic Consulting, Inc.

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

February 3, 2012

MHCDEP-12-0057

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 #39**

Dear Mr. May:

This is the thirty-ninth weekly construction summary for the above referenced project. The reporting period for this weekly construction summary began at 7:00 AM, Thursday, January 26, 2012 and ended at 7:00 AM, Thursday, February 2, 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 it was demonstrated that the straddle packers were not isolating the test interval during straddle packer testing. The packer sleeves were shipped to the manufacturer to be enlarged from a 24-inch diameter to a 27-inch diameter to increase the ability of the packers to isolate the test interval. The drilling contractor reamed the interval from 1,960 to 2,100 feet below pad level (bpl) using a 32-inch diameter bit while waiting for the modified packer sleeves to arrive on site. A wiper pass was made to a depth of 2,900 feet bpl with a 28-inch diameter bit prior to conducting caliper and gamma ray logging of the interval from the base of the 34-inch diameter casing to 2,900 feet bpl. The packer sleeves arrived on site and were successfully tested inside 34-inch diameter casing at surface to demonstrate they properly inflate. The drilling contractor was preparing for straddle packer testing at the end of the reporting period.

During this reporting period, straddle packers were set to test the intervals from 2,220 to 2,242 feet bpl, 2,400 to 2,422 feet bpl, 2,478 to 2,500 feet bpl, 2,552 to 2,574 feet bpl, and 2,693 to 2,715 feet bpl. Straddle packers testing was successfully completed on the intervals from 2,220 to 2,242 feet bpl and 2,478 to 2,500 feet bpl. It appears that the packers failed to isolate the other test intervals. Water samples were collected at the completion of the two packer tests. A packer testing summary table is attached. After completing packer testing, the

drilling contractor began reaming the hole from 2,100 feet bpl using a 32-inch diameter bit. Reaming had reached a depth of 2,678 feet bpl by the end of the reporting period.

Deviation surveys were conducted at 60-foot intervals during reaming. A copy of the deviation survey summary sheet is attached. The well was killed with salt during the reporting period. A daily kill material log providing a summary of daily kill material and kill quantity is attached. Hard copies of the log prints from last week's geophysical logging are attached.

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

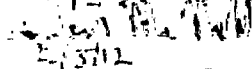
During the next reporting period, it is anticipated that the drilling contractor complete reaming the hole with the 32-inch diameter bit to a depth of 2,978 feet bpl. A 12¼-inch diameter bit will then be used to clean out the borehole to a depth of 3,230 feet bpl in preparation for conducting a formation test over the interval from approximately 3,010 to 3,230 feet bpl.

In addition, sampling of the pad monitor wells began on April 21, 2011 and has been taking place on a weekly basis since the initial sampling. The pad monitor wells were most recently sampled on February 2, 2012. The most recent set of pad monitoring well sample results available are for samples collected on January 26, 2012. Sampling of the pad monitor wells around EW-1 will continue until drilling and testing of EW-1 has been completed. Copies of the pad monitor well water quality data summary sheets are attached.

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

Sincerely,

McNabb Hydrogeologic Consulting, Inc.


David McNabb, P.G.

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

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

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



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Daily Construction Log

Date: January 26, 2012	FDEP UIC Permit #: 0293962-001-UC
Project: FPL Turkey Point EW	Well No.: EW-1
Contractor: Layne Christensen Company	Bit Diameter: 28-inch
Starting Depth: 2,900 feet bpl	Ending Depth: 2,900 feet bpl
Weather Day: Cloudy, Warm	Recorded By: Marty Clasen/Sally Durall
Weather Night: Cloudy, Mild	
Activity: Preparing for Packer Testing	

CONSTRUCTION ACTIVITIES

- 0700 Yesterday, the drilling contractor waited for modified packer sleeves arrived on site. The new sleeves were confirmed to be 27-inches in diameter and were assembled with the 11-inch packers. Each packer was tested on the ground inside a section of 34-inch diameter casing. The packers were pressured up to 350 pounds per square inch (psi) and successfully held the pressure for one hour. The drilling contractor will install the packer assembly in the borehole and conduct the packer test over the interval from 2,552 to 2,574 feet below pad level (bpl).
- 0745 The drilling contractor adding salt to the borehole to kill the well.
- 0845 The drilling contractor is assembling the straddle packers.
- 1030 The drilling contractor is tripping the straddle packers into the borehole. Florida Spectrum Environmental Services, Inc. is on site to sample the pad monitoring wells.
- 1200 The drilling contractor continues to trip the straddle packer into the borehole.
- 1330 The drilling contractor continues to trip in the packer assembly.
- 1500 The drilling contractor continues to trip in the packer assembly.
- 1610 The drilling contractor is temporarily shut down due to a failed hydraulic hose for the drilling floor door. The failed hose will be replaced.
- 1700 The drilling contractor has obtained the new parts to repair the failed hydraulic hose.
- 1800 The drilling contractor continues to repair the hydraulic hose.
- 1915 The straddle packers are positioned at the depth interval from 2,552 to 2,574 feet bpl and the drilling contractor begins to inflate the packers.
- 2120 The packers begin to take on weight at approximately 230 psi.
- 2150 The packers have been pressured up to 400 psi.
- 2240 The packers are pressured up to 620 psi and the drilling contractor is preparing to trip inside the drill pipe with the air line to begin conditioning the test interval.
- 0000 Begin conditioning the test interval. The test interval is producing approximately 100 gpm or the straddle packers are not successfully isolating the test interval.
- 0030 Terminated the test due to productivity.
- 0045 The drilling contractor will bleed-off the packers and relocate the packers to the next testing interval between the depths of 2,693 feet to 2,715 feet bpl.
- 0200 The drilling contractor continues bleeding off the packers.



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- 0325 The drilling contractor has completed bleeding off the packers and begins to relocate the packers to the next testing interval.
- 0500 The drilling contractor continues relocating the packers to the next testing interval.
- 0600 The drilling contractor continues relocating the packers to the next testing interval, 2,693 to 2,715 feet bpl.
- 0700 The drilling contractor continues relocating the packers to the next testing interval, 2,693 to 2,715 feet bpl.



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Daily Construction Log

Date: January 27, 2012

Project: FPL Turkey Point EW

Contractor: Layne Christensen Company

Starting Depth: 2,900 feet bpl

Weather Day: Cloudy, Warm

Weather Night: Cloudy, Mild

Activity: Packer Testing

FDEP UIC Permit #: 0293962-001-UC

Well No.: EW-1

Bit Diameter: 28-inch

Ending Depth: 2,900 feet bpl

Recorded By: Marty Clasen/Sally Durall

CONSTRUCTION ACTIVITIES

- 0700 Yesterday, the drilling contractor installed the straddle packers to test the interval from 2,552 to 2,574 feet below pad level (bpl). The test was terminated due to productivity or lack of test interval isolation and the packers were moved to the test interval from 2,693 to 2,715 feet bpl.
- 0715 The straddle packers are positioned at the depth interval from 2,693 to 2,715 feet bpl and the drilling contractor begins to inflate the packers.
- 0815 The packers begin to take on weight at approximately 250 psi.
- 0830 The packers have been pressured up to 400 psi.
- 0840 The packers are pressured up to 620 psi and the drilling contractor is preparing to trip inside the drill pipe with the air line to begin conditioning the test interval.
- 0903 Began conditioning the test interval, but it was apparent that the straddle packers are not isolating the test interval or the interval is producing approximately 150 to 200 gpm. The test was terminated.
- 0940 The drilling contractor is bleeding off the pressure on the packers. The straddle packer assembly will be moved to the interval depth of 2,220 feet to 2,242 feet bpl after the pressure is bled off.
- 1130 The drilling contractor continues to bleed down the packers.
- 1239 The drilling contractor has completed bleeding off the packers and begins to relocate the packers to the next testing interval.
- 1430 The straddle packers are positioned at the depth interval from 2,220 to 2,242 feet bpl and the drilling contractor begins to inflate the packers.
- 1530 The drilling contractor has inflated the packers to 600 psi and is beginning to install the air line to begin conditioning the test interval.
- 1550 The drilling contractor started conditioning the test interval.
- 1650 The drilling contractor continues to condition the packer test interval. The production rate is approximately 16 gpm.
- 1800 The drilling contractor continues to condition the packer test interval. The production rate is approximately 13 gpm.
- 1900 The drilling contractor continues to condition the packer test interval. The production rate is approximately 15 gpm.



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- 2100 The drilling contractor continues to condition the packer test interval. Development rate is approximately 15 gpm.
- 2300 The drilling contractor continues to condition the packer test interval. Development rate is approximately 6 gpm.
- 0100 The drilling contractor continues to condition the packer test interval. Development rate is approximately 6 gpm.
- 0300 The drilling contractor continues to condition the packer test interval. The production rate is approximately 10 gpm.
- 0510 The drilling contractor stops conditioning the test interval. The average production rate is estimated at 10 gpm.
- 0520 The drilling contractor begins to trip out of the drill pipe with the air line and will prepare to trip back in the drill pipe with a pump in preparation for the performing a straddle packer test.
- 0600 The drilling contractor begins to trip inside the drill pipe with a 0.5 horsepower submersible pump and the transducer. The pump intake will be installed to a depth of 190.7 feet below the flange, and the transducer will be installed 10 feet above the pump intake which is at a depth of 180.7 feet below the flange.
- 0700 The drilling contractor has installed the submersible pump and continues to set up the flow meter and transducer for the packer test.



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Daily Construction Log

Date: January 28, 2012

Project: FPL Turkey Point EW

Contractor: Layne Christensen Company

Starting Depth: 2,900 feet bpl

Weather Day: Cloudy, Warm

Weather Night: Cloudy, Mild

Activity: Packer Testing

FDEP UIC Permit #: 0293962-001-UC

Well No.: EW-1

Bit Diameter: 28-inch

Ending Depth: 2,900 feet bpl

Recorded By: Marty Clasen/Dave McNabb

CONSTRUCTION ACTIVITIES

- 0700 Yesterday, the drilling contractor installed the straddle packer assembly to the interval 2,693 to 2,715 feet below pad level (bpl). The interval was conditioned at an approximate rate of 150 to 200 gallons per minute, suggesting the straddle packers are not isolating the testing interval or the interval was too productive. The test was terminated and the packers were moved to the next test interval from 2,220 to 2,242 feet bpl. The interval was conditioned at an average rate of approximately 10 gallons per minute for 13 hours.
- 0754 The drilling contractor established the pumping rate for the packer test at 4.8 gallons per minute. The background portion of the test was started.
- 0900 The drilling contractor continues to collect background water level data before initiating the straddle packer test.
- 1015 The drilling contractor continues to collect background water level data before initiating the straddle packer test.
- 1030 The straddle packer test over the interval from 2,220 to 2,242 feet bpl has started at a pumping rate of 5 gallons per minute.
- 1100 The drilling contractor is conducting a straddle packer test over the interval from 2,220 to 2,242 feet bpl. A water sample was collected at time 1100. The pumping rate is 4.4 gallons per minute.
- 1130 The drilling contractor is conducting a straddle packer test over the interval from 2,220 to 2,242 feet bpl. A water sample was collected at time 1130. The pumping rate is 3.8 gallons per minute.
- 1200 The drilling contractor is conducting a straddle packer test over the interval from 2,220 to 2,242 feet bpl. A water sample was collected at time 1200. The pumping rate is 4 gallons per minute.
- 1230 The drilling contractor is conducting a straddle packer test over the interval from 2,220 to 2,242 feet bpl. A water sample was collected at time 1230. The pumping rate is 3.8 gallons per minute.
- 1300 The drilling contractor is conducting a straddle packer test over the interval from 2,220 to 2,242 feet bpl. A water sample was collected at time 1300. The pumping rate is 4 gallons per minute.



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- 1330 The drilling contractor is conducting a straddle packer test over the interval from 2,220 to 2,242 feet bpl. A water sample was collected at time 1330. The pumping rate is 3.8 gallons per minute.
- 1400 The drilling contractor is conducting a straddle packer test over the interval from 2,220 to 2,242 feet bpl. A water sample was collected at time 1400. The pumping rate is 3.9 gallons per minute.
- 1430 The drilling contractor is conducting a straddle packer test over the interval from 2,220 to 2,242 feet bpl. A water sample was collected at time 1430. The pumping rate is 3.9 gallons per minute. The water level has stabilized at 71.3 feet below static water level and the pumping step of the test was stopped at 1430. The drilling contractor will record water level recovery data for two to three hours or until the water level has stabilized.
- 1530 The drilling contractor continues to collect recovery water level data.
- 1630 The drilling contractor continues to collect recovery water level data.
- 1730 The drilling contractor stopped the recovery portion of the packer test and downloaded the data.
- 1800 The drilling contractor is deflating the packers.
- 1910 The rig requires electrical maintenance and the electrician has been called and is due on site in about two hours. The packers continue to deflate.
- 2000 The drilling contractor continues to wait on the electrician and allow the packers to deflate.
- 2115 The drilling contractor continues to wait on the electrician. The packers have deflated.
- 2245 The electrician has arrived and is working on the rig.
- 0015 The electrical maintenance has been completed and the drilling contractor is preparing to begin removing the submersible pump from the drill pipe. They will then move the straddle packers to allow straddle packer testing on the interval from 2,400 to 2,422 feet bpl.
- 0105 The submersible pump has been removed from the drill pipe and the drilling contractor is preparing to move the straddle packers to allow testing of the interval from 2,400 to 2,422 feet bpl.
- 0200 The drilling contractor continues to move the straddle packers to the test interval.
- 0420 The straddle packers have been moved to test the interval from 2,400 to 2,422 feet bpl.
- 0530 The drilling contractor begins to inflate the straddle packers.
- 0700 The drilling contractor continues to inflate the straddle packers.



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Daily Construction Log

Date: January 29, 2012

FDEP UIC Permit #: 0293962-001-UC

Project: FPL Turkey Point EW

Well No.: EW-1

Contractor: Layne Christensen Company

Bit Diameter: 28-inch

Starting Depth: 2,900 feet bpl

Ending Depth: 2,900 feet bpl

Weather Day: Cloudy, Mild, Rain

Recorded By: Marty Clasen/Dave McNabb

Weather Night: Cloudy, Windy, Mild

Activity: Packer Testing

CONSTRUCTION ACTIVITIES

- 0700 Yesterday, the drilling contractor conducted a straddle packer test over the interval from 2,220 to 2,242 feet below pad level (bpl). The packers were then moved to allow straddle packer testing over the interval from 2,400 to 2,422 feet bpl. The packers were inflated in preparation for the test.
- 0720 The drilling contractor has pressured up the packers and is beginning to trip in the air line to begin conditioning the test interval.
- 0800 The drilling contractor started conditioning the test interval.
- 0810 It does not appear that the straddle packers are isolating the test interval, therefore, the test was terminated.
- 0830 The drilling contractor is deflating the packers.
- 0930 The drilling contractor continues to deflate the packers and has removed the air line.
- 1045 The drilling contractor continues to deflate the packers.
- 1205 The drilling contractor has completed deflating the packers and is preparing to move the straddle packers to test the interval from 2,478 to 2,500 feet bpl.
- 1300 The drilling contractor is moving the straddle packers.
- 1410 The drilling contractor has finished installing the straddle packers to test the interval from 2,478 to 2,500 feet bpl and has begun to inflate the packers.
- 1500 The drilling contractor continues to inflate the packers.
- 1530 The drilling contractor has inflated the packers to 500 psi.
- 1545 The drilling contractor has inflated the packers to 620 psi and the packers have taken on weight. The air line will be installed for development.
- 1610 The drilling contractor begins conditioning the test interval at an estimated rate of 30 gpm.
- 1800 The drilling contractor continues conditioning the test interval.
- 1900 Conditioning of the test interval has been completed and the test interval water level is recovering. The estimated average conditioning rate is 30 gpm.
- 1950 The drilling contractor is preparing for straddle packer testing.
- 2100 The drilling contractor continues to prepare for straddle packer testing.
- 2130 The drilling contractor begins to trip inside the drill pipe with a 0.5 horsepower submersible pump and the transducer. The pump intake will be installed to a depth of



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- 192.3 feet below the flange, and the transducer will be installed 10 feet above the pump intake which is at a depth of 182.3 feet below the flange.
- 2145 The drilling contractor has installed the submersible pump and continues to set up the flow meter and transducer for the packer test.
- 2210 The drilling contractor is having trouble setting up the test on the computer.
- 2300 The drilling contractor has set up the test on the computer and is starting the preliminary straddle packer test to determine the pumping rate at which the straddle packer will be performed.
- 2315 The preliminary straddle packer test has been completed. A pumping rate of approximately 21 gpm will be used for the test. The water level in the test interval will be allowed to recover.
- 0300 The test interval water level has recovered on the straddle packer test interval from 2,478 to 2,500 feet bpl.
- 0302 Begin the straddle packer test on the interval from 2,478 to 2,500 feet bpl. The static water level just prior to starting the test was 173 feet above the transducer. The pumping is 21 gpm.
- 0530 Collected water samples and then the pump was turned off and began recovery.
- 0700 The final recovery portion of the packer test continues.



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Daily Construction Log

Date: January 30, 2012
Project: FPL Turkey Point EW
Contractor: Layne Christensen Company
Starting Depth: 2,100 feet bpl
Weather Day: Cloudy, Windy, Mild
Weather Night: Partly Cloudy, Cool
Activity: Packer Testing/Prepare for Reaming

FDEP UIC Permit #: 0293962-001-UC
Well No.: EW-1
Bit Diameter: 32-inch
Ending Depth: 2,100 feet bpl
Recorded By: Sally Durall/Deborah Daigle

CONSTRUCTION ACTIVITIES

- 0700 Yesterday, the drilling contractor attempted a straddle packer test over the interval from 2,400 to 2,422 feet below pad level (bpl) which was terminated due to the straddle packers were not isolating the test interval. The packers were then moved to allow straddle packer testing over the interval from 2,478 feet to 2,500 feet bpl. The packer test is currently in the final recovery stage.
- 0745 End of final recovery for packer test interval from the depth of 2,478 feet to 2,500 feet bpl.
- 0820 The drilling contractor begins to bleed-off the packers.
- 1000 The drilling contractor begins to trip out of the drill pipe with the air line.
- 1150 The drilling contractor begins to trip out of the borehole with the straddle packer assembly.
- 1400 The drilling contractor continues to trip out of the borehole with the straddle packer assembly.
- 1600 The drilling contractor continues to trip out of the borehole with the straddle packer assembly.
- 1720 The straddle packer assembly is on the rig floor. The drilling contractor begins to break down the straddle packer assembly.
- 1900 The drilling contractor has broken down the straddle packer assembly and is preparing to put together the bottom hole assembly (BHA) with a 32-inch diameter bit.
- 2000 The drilling contractor continues to put together the BHA.
- 2200 The drilling contractor has completed the BHA and is preparing to trip in to the hole. The borehole was previously reamed to 2,100 feet bpl with the 32-inch diameter bit.
- 2230 The drilling contractor begins tripping in the borehole with the BHA.
- 2330 The drilling contractor continues to trip the borehole with the BHA.
- 0030 The drilling contractor continues to trip the borehole with the BHA.
- 0200 The drilling contractor continues to trip the borehole with the BHA.
- 0300 The drilling contractor continues to trip the borehole with the BHA.
- 0400 The drilling contractor continues to trip the borehole with the BHA.
- 0500 The drilling contractor continues to trip the borehole with the BHA.
- 0700 The drilling contractor continues to trip the borehole with the BHA.



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Daily Construction Log

Date: January 31, 2012
Project: FPL Turkey Point EW
Contractor: Layne Christensen Company
Starting Depth: 2,100 feet bpl
Weather Day: Partly, Cloudy, Windy
Weather Night: Partly, Cloudy, Windy
Activity: Reaming

FDEP UIC Permit #: 0293962-001-UC
Well No.: EW-1
Bit Diameter: 32-inch
Ending Depth: 2,380 feet bpl
Recorded By: Sally Durall/Deborah Daigle

CONSTRUCTION ACTIVITIES

- 0700 Yesterday, the drilling contractor conducted the final straddle packer test over the interval from 2,478 to 2,500 feet below pad level (bpl) and then prepared to trip in the borehole with a 32-inch diameter bit to continue reaming from a depth of 2,100 feet bpl. The drilling contractor is currently tripping in the borehole with the 32-inch diameter bit.
- 0810 The drilling contractor begins reaming the borehole from a depth of 2,100 feet bpl.
- 0940 The drilling contractor is reaming the borehole at a depth of 2,117 feet bpl.
- 1040 The drilling contractor is reaming the borehole at a depth of 2,128 feet bpl.
- 1200 The drilling contractor is reaming the borehole at a depth of 2,143 feet bpl.
- 1330 The drilling contractor is reaming the borehole at a depth of 2,159 feet bpl.
- 1500 The drilling contractor is reaming the borehole at a depth of 2,185 feet bpl.
- 1535 The kelly is down at a depth of 2,193 feet bpl. The drilling contractor is circulating the borehole clean in preparation for a deviation survey.
- 1605 The drilling contractor trips inside the drill pipe with the deviation survey tool to a depth of 2,130 feet bpl.
- 1630 The deviation survey is complete and the result is 0.5 degree.
- 1705 The drilling contractor makes a drill pipe connection and resumes reaming the borehole from a depth of 2,193 feet bpl.
- 1800 The drilling contractor is reaming the borehole at a depth of 2,211 feet bpl.
- 1900 The drilling contractor is reaming the borehole at a depth of 2,232 feet bpl.
- 2100 The drilling contractor is reaming the borehole at a depth of 2,266 feet bpl.
- 2200 The kelly is down at a depth of 2,284 feet bpl. The drilling contractor is circulating the borehole clean in preparation for two deviation surveys.
- 2223 The drilling contractor trips inside the drill pipe with the deviation survey tool to a depth of 2,190 feet bpl.
- 2246 The deviation survey is complete and the result is 0.5 degree.
- 2249 The drilling contractor trips inside the drill pipe with the deviation survey tool to a depth of 2,250 feet bpl.
- 2311 The deviation survey is complete and the result is 0.3 degree.



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- 2326 The drilling contractor makes a drill pipe connection and resumes reaming the borehole from a depth of 2,284 feet bpl.
- 0030 The drilling contractor is reaming the borehole at a depth of 2,300 feet bpl.
- 0130 The drilling contractor is reaming the borehole at a depth of 2,316 feet bpl.
- 0230 The drilling contractor is reaming the borehole at a depth of 2,332 feet bpl.
- 0330 The drilling contractor is reaming the borehole at a depth of 2,348 feet bpl.
- 0430 The drilling contractor is reaming the borehole at a depth of 2,364 feet bpl.
- 0500 The kelly is down at a depth of 2,373 feet bpl. The drilling contractor is circulating the borehole clean in preparation for two deviation surveys.
- 0510 The drilling contractor trips inside the drill pipe with the deviation survey tool to a depth of 2,310 feet bpl.
- 0526 The deviation survey is complete and the result is 0.3 degree.
- 0540 The drilling contractor makes a drill pipe connection and resumes reaming the borehole from a depth of 2,373 feet bpl.
- 0700 The drilling contractor is reaming the borehole at a depth of 2,380 feet bpl.



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Daily Construction Log

Date: February 1, 2012
Project: FPL Turkey Point EW
Contractor: Layne Christensen Company
Starting Depth: 2,380 feet bpl
Weather Day: Partly, Cloudy, Mild
Weather Night: Cloudy, Lt. Rain, Mild
Activity: Reaming

FDEP UIC Permit #: 0293962-001-UC
Well No.: EW-1
Bit Diameter: 32-inch
Ending Depth: 2,678 feet bpl
Recorded By: Sally Durall/Deborah Daigle

CONSTRUCTION ACTIVITIES

- 0700 Yesterday, the drilling contractor began reaming the borehole using a 32-inch diameter bit from the depth of 2,100 feet below pad level (bpl) and is currently reaming at a depth of 2,380 feet bpl.
- 0815 The drilling contractor is reaming the borehole at a depth of 2,405 feet bpl.
- 1010 The drilling contractor is reaming the borehole at a depth of 2,439 feet bpl.
- 1135 The kelly is down at a depth of 2,463 feet bpl and the drilling contractor is circulating the borehole clean in preparation for a deviation survey.
- 1200 The drilling contractor trips inside the drill pipe with the deviation survey tool to a depth of 2,370 feet bpl.
- 1225 The deviation survey is complete and the result is 0.2 degree.
- 1230 The drilling contractor trips inside the drill pipe with the deviation survey tool to a depth of 2,430 feet bpl.
- 1255 The deviation survey is complete and the result is 0.4 degree.
- 1310 The drilling contractor makes a drill pipe connection and resumes reaming the borehole from a depth of 2,463 feet bpl.
- 1445 The drilling contractor is reaming the borehole at a depth of 2,486 feet bpl.
- 1600 The drilling contractor is reaming the borehole at a depth of 2,508 feet bpl.
- 1800 The drilling contractor is reaming the borehole at a depth of 2,544 feet bpl.
- 1830 The kelly is down at a depth of 2,554 feet bpl and the drilling contractor is circulating the borehole clean in preparation for a deviation survey.
- 1915 The drilling contractor trips inside the drill pipe with the deviation survey tool to a depth of 2,490 feet bpl.
- 1940 The deviation survey is complete and the result is 0.4 degree.
- 1942 The drilling contractor trips inside the drill pipe with the deviation survey tool to a depth of 2,550 feet bpl.
- 2006 The deviation survey is complete and the result is 0.1 degree.
- 2020 The drilling contractor makes a drill pipe connection and resumes reaming the borehole from a depth of 2,554 feet bpl.



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- 2230 The drilling contractor is reaming the borehole at a depth of 2,579 feet bpl.
- 0030 The drilling contractor is reaming the borehole at a depth of 2,607 feet bpl.
- 0230 The drilling contractor is reaming the borehole at a depth of 2,635 feet bpl.
- 0315 The kelly is down at a depth of 2,644 feet bpl and the drilling contractor is circulating the borehole clean in preparation for a deviation survey.
- 0329 The drilling contractor trips inside the drill pipe with the deviation survey tool to a depth of 2,610 feet bpl.
- 0353 The deviation survey is complete and the result is 0.4 degree.
- 0357 The drilling contractor makes a drill pipe connection and resumes reaming the borehole from a depth of 2,644 feet bpl.
- 0600 The drilling contractor is reaming the borehole at a depth of 2,668 feet bpl.
- 0700 The drilling contractor is reaming the borehole at a depth of 2,678 feet bpl.

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LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

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Proposed Turkey Point Units 6 and 7

DATE _____

1/26/12

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JOB SITE NAME

EW-1

Docket Nos. 52-040 and 52-041

L-2012-055 Enclosure 3 Page 18 of 50

THUR. NIGHT

JOB SITE LOCATION

T.F.

PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
DRILLER	GEORGE HAGA	X	12		12
AP	ANDREY POPOV	X	12		12
JY	JUSTIN YEOMANS	X	12		12

MATERIALS USED TODAY

Dates	Description
	SAFETY MEETINGS:
	#1 SETTING A PACKER
	#2 HAZARD IDENTIFICATION
	PPE - PINCH POINTS, PACKER TEST, LOADER SAFETY, HAND SIGNALS.

TIME OF ACTIVITY BY ITEM

[illegible]

DAILY ACCOUNTING OF ACTIVITIES BY ITEM

Item #	Cost Code	Labor Activity	Hours
1	11000	Short Duration Job	
2	11100	Onsite Mob/Demob	
3	11150	Job Preparation	
4	11200	Safety Meeting	
5	0003	Traveling - Overhead	
6	0005	Shop - Overhead	
7	0007	Maintenance - Overhead	
8	11250	Traveling - Job Chargeable	
9	11300	Site Clean up	
10	11350	Install Sound Walls	
11	11400	Install Decon Pad	
12	11450	Install Surface Casing	
13	11500	Install Roadway & Drill Pad	
14	12050	Test Hole Drilling	
15	12100	Geophysical Logging & Other Testing	
16	12150	Hydrofracture 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	Hydrofracture 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	Install Gravel Pack Wire Well	
29	13600	Install Annular Seal	
30	13650	Water Watching	
31	14050	Well Development Air Lift and Swab	
32	14100	Disposal of Mud & Cuttings	
33	14150	Furnish & Install Test Pump and Discharge	
34	14200	Development Pumping	
35	14250	Test Pumping	
36	14300	Sanitization and Chlorination	
37	19050	Offsite Activities Mob/Demob	
38	19100	Shop	
39	19150	Administration	
40	19550	Other Activities Standby	
41	19600	Refracting Lost/Broken Tooling	
42	19650	Change Order Activities	
43	88000	Equipment Repairs	
44	90170	Damages	
45	90200	Job Superintendent	
		Lunch	
		TOTAL HOURS	

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

Pressure up packers to 620 PSI and set at 2552 bbl to 2574 bbl
run air line start air developing. annulus holding producing 60
gallows a minute shut down test. bleed off packers for 2⁶lit
(2) hours. move packers to ~~2694 bbl to 2714 bbl~~
2693 bbl to 2715 bbl

101

1/26/12

Client's Information

PAYROLL

12

By Rebecca J. Sigurdson

Date _____



LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT E. P. L. Proposed Turkey Point Units 6 and 7
 Docket Nos. 52-040 and 52-041
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DATE 01-27-2012
FRI DAYS.

JOB # 11771

JOB SITE NAME E-2-1

JOB SITE LOCATION T. P.

PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
DRILLER	BOSCH GILMOROV	X	12		12
WIT	VLADIS TSHIMOV	X	12		12
A.B	AKMAL BURKUNOV	X	12		12
V.M	VICTOR MOISEYEV	X	12		12

EQUIPMENT DEPLOYED TODAY

Equipment	Unit #	Status
Working	0001	Mobile on
Standby	0002	Demobilized on
Down in Shop	0003	Available in Yard
Down on Site	0004	Available on Job

DAILY ACCOUNTING OF ACTIVITIES BY ITEM

Item #	Code	Activity	Hours
1	10000	Welding, Plasma	
2	11100	Drill Bit Assembly	
3	11150	Perforation	
4	11200	Bit Assembly	
5	11250	Logging - Open	
6	11300	Shut-in	
7	11350	Well Annular - Open	
8	11400	Logging - Open	
9	11450	Shut-in	
10	11500	Well Annular - Open	
11	11550	Logging - Open	
12	11600	Shut-in	
13	11650	Well Annular - Open	
14	11700	Logging - Open	
15	11750	Shut-in	
16	11800	Well Annular - Open	
17	11850	Logging - Open	
18	11900	Shut-in	
19	11950	Well Annular - Open	
20	12000	Logging - Open	
21	12050	Shut-in	
22	12100	Well Annular - Open	
23	12150	Logging - Open	
24	12200	Shut-in	
25	12250	Well Annular - Open	
26	12300	Logging - Open	
27	12350	Shut-in	
28	12400	Well Annular - Open	
29	12450	Logging - Open	
30	12500	Shut-in	
31	12550	Well Annular - Open	
32	12600	Logging - Open	
33	12650	Shut-in	
34	12700	Well Annular - Open	
35	12750	Logging - Open	
36	12800	Shut-in	
37	12850	Well Annular - Open	
38	12900	Logging - Open	
39	12950	Shut-in	
40	13000	Well Annular - Open	
41	13050	Logging - Open	
42	13100	Shut-in	
43	13150	Well Annular - Open	
44	13200	Logging - Open	
45	13250	Shut-in	
46	13300	Well Annular - Open	
47	13350	Logging - Open	
48	13400	Shut-in	
49	13450	Well Annular - Open	
50	13500	Logging - Open	
51	13550	Shut-in	
52	13600	Well Annular - Open	
53	13650	Logging - Open	
54	13700	Shut-in	
55	13750	Well Annular - Open	
56	13800	Logging - Open	
57	13850	Shut-in	
58	13900	Well Annular - Open	
59	13950	Logging - Open	
60	14000	Shut-in	
61	14050	Well Annular - Open	
62	14100	Logging - Open	
63	14150	Shut-in	
64	14200	Well Annular - Open	
65	14250	Logging - Open	
66	14300	Shut-in	
67	14350	Well Annular - Open	
68	14400	Logging - Open	
69	14450	Shut-in	
70	14500	Well Annular - Open	
71	14550	Logging - Open	
72	14600	Shut-in	
73	14650	Well Annular - Open	
74	14700	Logging - Open	
75	14750	Shut-in	
76	14800	Well Annular - Open	
77	14850	Logging - Open	
78	14900	Shut-in	
79	14950	Well Annular - Open	
80	15000	Logging - Open	
81	15050	Shut-in	
82	15100	Well Annular - Open	
83	15150	Logging - Open	
84	15200	Shut-in	
85	15250	Well Annular - Open	
86	15300	Logging - Open	
87	15350	Shut-in	
88	15400	Well Annular - Open	
89	15450	Logging - Open	
90	15500	Shut-in	
91	15550	Well Annular - Open	
92	15600	Logging - Open	
93	15650	Shut-in	
94	15700	Well Annular - Open	
95	15750	Logging - Open	
96	15800	Shut-in	
97	15850	Well Annular - Open	
98	15900	Logging - Open	
99	15950	Shut-in	
100	16000	Well Annular - Open	
101	16050	Logging - Open	
102	16100	Shut-in	
103	16150	Well Annular - Open	
104	16200	Logging - Open	
105	16250	Shut-in	
106	16300	Well Annular - Open	
107	16350	Logging - Open	
108	16400	Shut-in	
109	16450	Well Annular - Open	
110	16500	Logging - Open	
111	16550	Shut-in	
112	16600	Well Annular - Open	
113	16650	Logging - Open	
114	16700	Shut-in	
115	16750	Well Annular - Open	
116	16800	Logging - Open	
117	16850	Shut-in	
118	16900	Well Annular - Open	
119	16950	Logging - Open	
120	17000	Shut-in	
121	17050	Well Annular - Open	
122	17100	Logging - Open	
123	17150	Shut-in	
124	17200	Well Annular - Open	
125	17250	Logging - Open	
126	17300	Shut-in	
127	17350	Well Annular - Open	
128	17400	Logging - Open	
129	17450	Shut-in	
130	17500	Well Annular - Open	
131	17550	Logging - Open	
132	17600	Shut-in	
133	17650	Well Annular - Open	
134	17700	Logging - Open	
135	17750	Shut-in	
136	17800	Well Annular - Open	
137	17850	Logging - Open	
138	17900	Shut-in	
139	17950	Well Annular - Open	
140	18000	Logging - Open	
141	18050	Shut-in	
142	18100	Well Annular - Open	
143	18150	Logging - Open	
144	18200	Shut-in	
145	18250	Well Annular - Open	
146	18300	Logging - Open	
147	18350	Shut-in	
148	18400	Well Annular - Open	
149	18450	Logging - Open	
150	18500	Shut-in	
151	18550	Well Annular - Open	
152	18600	Logging - Open	
153	18650	Shut-in	
154	18700	Well Annular - Open	
155	18750	Logging - Open	
156	18800	Shut-in	
157	18850	Well Annular - Open	
158	18900	Logging - Open	
159	18950	Shut-in	
160	19000	Well Annular - Open	
161	19050	Logging - Open	
162	19100	Shut-in	
163	19150	Well Annular - Open	
164	19200	Logging - Open	
165	19250	Shut-in	
166	19300	Well Annular - Open	
167	19350	Logging - Open	
168	19400	Shut-in	
169	19450	Well Annular - Open	
170	19500	Logging - Open	
171	19550	Shut-in	
172	19600	Well Annular - Open	
173	19650	Logging - Open	
174	19700	Shut-in	
175	19750	Well Annular - Open	
176	19800	Logging - Open	
177	19850	Shut-in	
178	19900	Well Annular - Open	
179	19950	Logging - Open	
180	20000	Shut-in	
181	20050	Well Annular - Open	
182	20100	Logging - Open	
183	20150	Shut-in	
184	20200	Well Annular - Open	
185	20250	Logging - Open	
186	20300	Shut-in	
187	20350	Well Annular - Open	
188	20400	Logging - Open	
189	20450	Shut-in	
190	20500	Well Annular - Open	
191	20550	Logging - Open	
192	20600	Shut-in	
193	20650	Well Annular - Open	
194	20700	Logging - Open	
195	20750	Shut-in	
196	20800	Well Annular - Open	
197	20850	Logging - Open	
198	20900	Shut-in	
199	20950	Well Annular - Open	
200	21000	Logging - Open	
201	21050	Shut-in	
202	21100	Well Annular - Open	
203	21150	Logging - Open	
204	21200	Shut-in	
205	21250	Well Annular - Open	
206	21300	Logging - Open	
207	21350	Shut-in	
208	21400	Well Annular - Open	
209	21450	Logging - Open	
210	21500	Shut-in	
211	21550	Well Annular - Open	
212	21600	Logging - Open	
213	21650	Shut-in	
214	21700	Well Annular - Open	
215	21750	Logging - Open	
216	21800	Shut-in	
217	21850	Well Annular - Open	
218	21900	Logging - Open	
219	21950	Shut-in	
220	22000	Well Annular - Open	
221	22050	Logging - Open	
222	22100	Shut-in	
223	22150	Well Annular - Open	
224	22200	Logging - Open	
225	22250	Shut-in	
226	22300	Well Annular - Open	
227	22350	Logging - Open	
228	22400	Shut-in	
229	22450	Well Annular - Open	
230	22500	Logging - Open	
231	22550	Shut-in	
232	22600	Well Annular - Open	
233	22650	Logging - Open	
234	22700	Shut-in	
235	22750	Well Annular - Open	
236	22800	Logging - Open	
237	22850	Shut-in	
238	22900	Well Annular - Open	
239	22950	Logging - Open	
240	23000	Shut-in	
241	23050	Well Annular - Open	
242	23100	Logging - Open	
243	23150	Shut-in	
244	23200	Well Annular - Open	
245	23250	Logging - Open	
246	23300	Shut-in	
247	23350	Well Annular - Open	
248	23400	Logging - Open	
249	23450	Shut-in	
250	23500	Well Annular - Open	
251	23550	Logging - Open	
252	23600	Shut-in	
253	23650	Well Annular - Open	
254	23700	Logging - Open	
255	23750	Shut-in	
256	23800	Well Annular - Open	
257	23850	Logging - Open	
258	23900	Shut-in	
259	23950	Well Annular - Open	
260	24000	Logging - Open	
261	24050	Shut-in	
262	24100	Well Annular - Open	
263	24150	Logging - Open	
264	24200	Shut-in	
265	24250	Well Annular - Open	
266	24300	Logging - Open	
267	24350	Shut-in	
268	24400	Well Annular - Open	
269	24450	Logging - Open	
270	24500	Shut-in	
271	24550	Well Annular - Open	
272	24600	Logging - Open	
273	24650	Shut-in	
274	24700	Well Annular - Open	
275	24750	Logging - Open	
276	24800	Shut-in	
277	24850	Well Annular - Open	
278	24900	Logging - Open	
279	24950	Shut-in	
280	25000	Well Annular - Open	
281	25050	Logging - Open	
282	25100	Shut-in	
283	25150	Well Annular - Open	
284	25200	Logging - Open	
285	25250	Shut-in	
286	25300	Well Annular - Open	
287	25350	Logging - Open	
288	25400	Shut-in	
289	25450	Well Annular - Open	
290	25500	Logging - Open	
291	25550	Shut-in	
292	25600	Well Annular - Open	
293	25650	Logging - Open	
294	25700	Shut-in	
295	25750	Well Annular - Open	
296	25800	Logging - Open	
297	25850	Shut-in	
298	25900	Well Annular - Open	
299	25950	Logging - Open	
300	26000	Shut-in	
301	26050	Well Annular - Open	
302	26100	Logging - Open	
303	26150	Shut-in	
304	26200	Well Annular - Open	
305	26250	Logging - Open	
306	26300	Shut-in	
307	26350	Well Annular - Open	
308	26400	Logging - Open	
309	26450	Shut-in	
310	26500	Well Annular - Open	
311	26550	Logging - Open	
312	26600	Shut-in	
313	26650	Well Annular - Open	
314	26700	Logging - Open	
315	26750	Shut-in	
316	26800	Well Annular - Open	
317	26850	Logging - Open	
318	26900	Shut-in	
319	26950	Well Annular - Open	

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CITY FPL
JOBSITE NAME Ew-1

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DATE 1/27/2012
Fri, Day 5 NIGHTS

JOB # 11771
JOBSITE LOCATION Turkey Point

PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
Drill MP	Michael A. Ramirez	X	12		12
JW	Juan Nieto	X	12		12
SJM	James McDonnell	X	12		12

EQUIPMENT DEPLOYED TODAY

Description		Unit #	Squads
Working	SB	Mobile station	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

Item #	Cost Code	Labor Activity	Hours
1	10000	Short Duration Job	
2	11100	Drastic Mob/Demob	
3	11150	Job Preparation	
4	11200	Safety Meeting	
5	0005	Firstling - Overhead	
6	0006	Shop - Overhead	
7	0007	Maintenance - Overhead	
8	11250	Priming - 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 & Duff Pad	
14	12000	Lost Hole Drilling	
15	12100	Geophysical Logging & Other Testing	
16	12150	Aquifer Zone Testing	
17	12200	Abandonment	
18	13050	Production Well Installation	
19	13100	Install Conductor Pipe	
20	13150	Drill Bit at Hole	
21	13200	Geophysical Logging & Other Testing	
22	13250	Aquifer Zone Testing	
23	13300	Abandonment/Concent Flugs	
24	13350	Flaring	
25	13400	Under Reaming	
26	13450	Install Casing	
27	13500	Install Screen	
28	13550	Gravel Pack The Well	
29	13600	Install Annular Seal	
30	13650	Water Washing	
31	14050	Well Development Air Lift and Swab	
32	14100	Disposal of Huds & 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	Administrative	
40	19250	Offsite Activities Standby	
41	19500	Waiting for Lost/Broken Tooling	
42	19550	Change Order Activities	
43	80000	Equipment Repairs	
44	90170	Damages	
45	90200	Job Superintendent	
		Lunch	
		TOTAL HOURS	

MATERIALS USED TODAY

Quantity	Description
	SAFETY MEETINGS
1)	Telescoping Crane Operations
2)	House Keeping
3)	Packer Testing
	PPE, High pressure hoses, eyes on path,

TIME OF ACTIVITY BY ITEM

[illegible]

2220-2242-61C

Packer Test. Air Develop. Collect Water Samples.
Sweep-Mop-clean Drill House. Clean MCC's, and Parts house.
Take out Trash. Trip out Airline Trip IN Pump.

M. R.

Page

Client's Signature

PAYROLL

100

Journal of Interpersonal Violence

516

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LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT

FPL

EW-1

Proposed Turkey Point Units 6 and 7

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DATE _____

1/28/2012

Sat. Night

JOB #

11771

Turkey Point

JOB SITE LOCATION**PERSONNEL EMPLOYED TODAY**

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
Drill line	Michael A. Ramirez	X	12		12
Jr	Juan Nieto	X	12		12
James	James McDonnell	X	12		12

EQUIPMENT DEPLOYED TODAY

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

DAILY ACCOUNTING OF ACTIVITIES BY ITEM

Item #	Cost Code	Labor Activity	Hours
1	10000	Short Duration Job	
2	11100	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	Zone Clean up	
10	11350	Install Sound Walls	
11	11400	Install Deton Pad	
12	11450	Install Surface Casing	
13	11500	Install Roadway & Drill Pad	
14	12050	For Hole Drilling	
15	12100	Geophysical Logging & Other Testing	
16	12150	Hydrofracturing Zone Testing	
17	12200	Borderline Abandonment	
18	13050	Production Well Installation	
19	13100	Install Conductor Pipe	
20	13150	Drill Bitstring	
21	13200	Geophysical Logging & Other Testing	
22	13250	Hydrofracturing Zone Testing	
23	13300	Borderline Abandonment / Cement Plugs	
24	13350	Reaming	
25	13400	Culinder 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 / Filter and Swab	
32	14100	Disposal of Fluids & Cuttings	
33	14150	Surrounding Well Test Pump and Discharge	
34	14200	Development Pumping	
35	14250	Test Pumping	
36	14300	Identification and Classification	
37	19050	Onsite Activities Mob/Demob	
38	19100	Shop	
39	19150	Administration	
40	19550	Other Activities Standby	
41	19600	Fishing for Lost/Broken Tooling	
42	19650	Change Order Activities	
43	88000	Equipment Repairs	
44	90170	Damages	
45	90200	Job Superintendent	
		Lunch	
		TOTAL HOURS	

MATERIALS USED TODAY

Quantity	Description
	Safety Meetings
1)	Accident Prevention Policy
2)	Electrical Safety
	PPE High voltage lines, High pressure lines loader safety.

TIME OF ACTIVITY BY SYSTEM A

[illegible]

COMMENTS- EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

Move Packer. Brakes locked closed waiting on Electrician.
Help electrician fix Brake System. Trip out Packer test Pump
and 3 Std Airline. Trip in 2 Std. Drill Pipe Move Packer. Pump
out Slurry Pit. In flate Packer. (MOVED TO 2476' TO 2500'
KMS)

My Dearest

1/28/12
Date:

● **如何设计调查问卷**

PAYROLL

One

1/23/11

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

FPL

W-1

Proposed Turkey Point Units 6 and 7

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DATE 1/20/2012
Sunday Night

JOE # 1177

JOBSITE LOCATION: Turkey, Paris

PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
Drill #1	Michael A. Ramirez 2	X	12		12
#11	Juan Nieto	X	12		12
#12	James McDonnell	X	12		12

EQUIPMENT DEPLOYED TODAY

Description		Unit #	Status
Waiting	WK	Mobilization	MB
Standby	SB	Demobilization	DM
In Shop	DS	Available 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	Install Mob/Demob	
3	11150	Job Preparation	
4	11200	Safety Meeting	
5	0005	Training - Overhead	
6	0006	Shop - Overhead	
7	0007	Maintenance - Overhead	
8	11250	Training - Job Chargeable	
9	11300	Site Clean up	
10	11350	Install Sound Walls	
11	11400	Install Decon Pad	
12	11450	Install Surface Curing	
13	11500	Install Roadway & Drain Pad	
14	12050	Test Hole Drilling	
15	12100	Geophysical Logging & Other Testing	
16	12150	Aquifer Zone Testing	
17	12200	Corehole Abandonment	
18	13050	Production Well Installation	
19	13100	Install Conductor Pipe	
20	13150	Test Plug Hole	
21	13200	Geophysical Logging & Other Testing	
22	13250	Aquifer Zone Testing	
23	13300	Corehole Abandonment / Cement Plugs	
24	13350	Reaming	
25	13400	Under Reaming	
26	13450	Install Casing	
27	13500	Install Screen	
28	13550	Install Pack The Well	
29	13600	Install Annular Seal	
30	13650	Inspection Well Drilling	
31	14050	Well Development / Air Lift and Swab	
32	14100	Exposure of Risers & Casing	
33	14150	Uninstall & 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	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) lightning / Bad Weather - Operations
	2) Lock out - TAG out
	PPE, High pressure lines, Overhead dangers, slip trip & fall, ladder safety, HIRA.

TIME OF ACTIVITY BY TEMPERATURE

[illegible]

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

Packer test. Air Develop, Stop Air Develop, Trip out airline. Trip in Pump
#3 STD. Airline. Set up for Pump Test. Run Pump Test. Collect
water samples. Housekeeping Clean/Organize Yard and Parts -
change houses

TEST: 2478-2500 FT 3PL

H. P. J.
Inspector - Springfield
Inspector

Data

Client Signature

PAYROLL

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Garantía de Cumplimiento

1999

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CUENT FPL

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DATE 1/30/2012
Monday Night

100 # 10721
LOCATION Turkey Point

JOB SITE NAME

RESEARCH AND DEVELOPMENT

EQUIPMENT DEPLOYED TODAY

DAILY ACCOUNTING OF ACTIVITIES BY ITEM #

Crew Assignment	Employee Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
TRUCK ME	MICHAEL RAMIREZ	X	12		12
VE	ILAD ISHIMOV	X	12		12
ON	JUAN NIETO	X	12		12
QJ	JAMES MCDONNELL	X	12		12

MATERIALS USED TODAY

DATE	TIME	LOCATION	ATTENDANCE	AGENDA
				Safety Meeting
				1) Making up 3 2" hit & weights BHA
				2) Towing Radiation
				PPE, Lateral safety, Electrical safety, open hole caution, wildlife, firearm,

TIME OF ACTIVITY BY ITEM #

[illegible]

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

Make up 32" bot 3 BHA collar section & 5 weights BHA 75K. ITH
22 Std. DP & 6.5 Std. Air line. ~~TAKE out Trash. Housekeeping Clean off Floor~~
~~TAKE out Trash. Housekeeping Clean off Floor~~

Item #	Cost Code	Labor Activity	Hours
1	10000	Short Duration Job	
2	11100	First Mobil/Demob	
3	11150	Job Preparation	
4	11200	Safety Meeting	
5	00005	Training - Overhead	
6	00005	Shop - Overhead	
7	00007	Maintenance - Overhead	
8	11250	Training - Job Chargeable	
9	11300	Site Clean up	
10	11350	Install Sound Walls	
11	11400	Install Decon Pad	
12	11450	Install Surface Casing	
13	11500	Install Roadway & Drift Pad	
14	12050	Cost Hole Drilling	
15	12100	Geophysical Logging & Other Testing	
16	12150	Aquifer Zone Testing	
17	12200	Record & Abandonment	
18	13050	Production Well Installation	
19	13100	Install Conductor Pipe	
20	13150	Drill Reel/Slide	
21	13205	Geophysical Logging & Other Testing	
22	13250	Aquifer Zone Testing	
23	13300	Shothole Abandonment / Cement Plugs	
24	13350	Grouting	
25	13400	Under Reaming	
26	13450	Install Casing	
27	13500	Install Screen	
28	13550	Gravel Pack The Well	
29	13600	Install Annul or Seal	
30	13650	Water Watching	
31	14050	Well Development Air Lift and Swab	
32	14100	Disposal of Huds & Cuttings	
33	14150	Turnsh End of Test Pump and Discharge	
34	14200	Well Development Pumping	
35	14250	Test Pumping	
36	14300	Isolation and Off of well on	
37	19050	Offsite Activities Mobil/Demob	
38	19100	Shop	
39	19150	Administration	
40	19550	Other Activities Standby	
41	19600	Waiting for Lost/Broken Tooling	
42	19650	Change Order Activities	
43	88000	Equipment Repairs	
44	90170	Damages	
45	00000	Job Superintendent	
		Lunch	
		TOTAL HOURS	

M. P. [Signature]

City

Patient's Signature

PAYROLL

End

Abstract

Notes

118

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT

FPZ

Proposed Turkey Point Units 6 and 7

DATE _____

2/1/12

JOB #

11771

JOB SITE NAME

EWI

Docket Nos. 52-040 and 52-041

Wew day shift

JOB SITE LOCATION

Turkey Air

~~L-2012-055 Enclosure 3 Page 29 of 50~~

PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
Dirtlev	Danny Keeley	X	12		12
GA	George Haga	X	12		12
AP	Andrew Popov	X	12		12

EQUIPMENT DEPLOYED TODAY

Description		Unit #	Status
Working	DE	Mobilization	MB
Standby	SB	Demobilization	DM
Down In Shop	DS	Available n Yard	AY
Down on Site	DN	Available on job	AV

FILE NO. ACCORDING TO THE DISCLOSURE OF THE 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 Ocean Pad	
12	11450	Install Surface Casing	
13	11500	Install Roadway & Drill Pad	
14	12050	Test Hole Drilling	
15	12100	Geophysical Logging & Other Logging	
16	12150	Acq for Zone Testing	
17	12200	Abandonment	
18	13050	Production Well Installation	
19	13100	Install Conductor Pipe	
20	13150	Drill Pilot Hole	
21	13200	Geophysical Logging & Other Testing	
22	13250	Acq for Zone Testing	
23	13300	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 Sludges & Cuttings	
33	14150	Surfsh & 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	19700	Equipment Repairs	
44	90170	Damages	
45	90200	Job Superintendent	
		Lunch	
		TOTAL HOURS	

MATERIALS USED TODAY

Course (1)	Program
	Safety meeting
	(1) Power tools
	(2) Complacency
	Safety topics
	Hand safety, slips, trips & falls
	high pressure lines, electrical safety & PPE

TIME OF ACTIVITY SYSTEM 11

[illegible]

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

Continue to drill w/ 52" bit from 2380 bbl to 2463 bbl.
Run deviation survey @ 2370 bbl. 2 degrees. Run deviation survey
@ 2430 bbl. 4 degrees. Make connections. Resume drilling from
2463 bbl to 2550 bbl.

2/1/12

Chen et al. • *MyoD* and *Myf5* in Muscle Development

PAYROLL

PLATE 1

100

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

ft. btoc: feet below top of casing

TOC: Top of Casing

ft. NAVD 88: North American Vertical Datum of 1988


umhos/cm: micronhos per centimeter

mg/L: milligrams per liter

C: Celsius

*Results appear to be anomalously 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		MHC				
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	
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						<div>MHC</div> <div>ASRS inc.</div>	
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		
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
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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	

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

**Florida Power & Light Company
Turkey Point
Exploratory Well EW-1
Packer Test Summary Table**

Test #	Test Interval (ft. bpl)	Pumping Rate (gpm)	Drawdown (feet)	Specific Capacity (gpm/foot)	Specific Conductance (umhos/cm)	Chloride (mg/L)	TDS (mg/L)	Sulfate (mg/L)	TKN (mg/L)	Ammonia (mg/L)	Temperature (Celsius)	pH (standard units)
1	1,505 - 1,535	76	31.3	2.43	22,420	7,990	13,890		0.22	0.18	25.8	7.55
2	1,400 - 1,430	77	40.6	1.9	9,850	3,230	5,780	403	0.13	0.11	24.4	7.55
3	1,225 - 1,285	78	33.2	2.35	5,340	1,500	3,120	396	0.16	0.08	26.8	7.80
4	1,102 - 1,162	16	161	0.1	4,980	1,270	2,984	540	0.34	0.32	24.9	7.86
5	1,930 - 1,952	2	60	0.03	45,300	16,800	32,167	585	0.26	0.092	24.2	7.48
6	2,989 - 3,011	150 (estimated)	(Moved packers up 5 feet due to test interval productivity during conditioning)									
	2,984 - 3,006	150 (estimated)	(Terminated due to test interval productivity during conditioning)									
7	3,020 - 3,232	78	1.6	49	50,100	19,100	39,900	2,910	U	U	24.1	8.04
8	1,970 - 1,992	0.5	145.8	0.003	41,480	15,200	26,400	1,980	0.15	0.038	26.7	6.7
9	2,058 - 2,080	4.9	98	0.05	54,800	19,500	35,800	2,820	0.18	0.134*	21.7	7.53
10	2,183 - 2,205	(Terminated due to packers not isolating the test interval or too productive)										
11	2,552 - 2,574	(Terminated due to packers not isolating the test interval or too productive)										
12	2,634 - 2,656	(Terminated due to packers not isolating the test interval or too productive)										
13	2,844 - 2,866	(Terminated due to packers not isolating the test interval or too productive)										
14	2,480 - 2,502	(Terminated due to packers not isolating the test interval or too productive)										
15	2,552 - 2,574	(Terminated due to packers not isolating the test interval or too productive)										
16	2,694 - 2,716	(Terminated due to packers not isolating the test interval or too productive)										
17	2,220 - 2,242	3.9	71	0.05								
18	2,400 - 2,422	(Terminated due to packers not isolating the test interval or too productive)										
19	2,478 - 2,500	21.7	91.05	0.24								

ft. bpl = feet below pad level
gpm = gallons per minutes
umhos/cm - micromhos per centimeter
mg/L = milligrams per liter
TDS = total dissolved solids
TKN = total kjeldahl nitrogen
U = analyzed for but not detected
* = Matrix spikes outside recovery limit

Pilot Hole			42-Inch Reamed Hole			32-Inch Reamed Hole		
Date	Depth (feet bpl)	Inclination (degrees)	Date	Depth (feet bpl)	Inclination (degrees)	Date	Depth (feet bpl)	Inclination (degrees)
5/13/2011	90	0.2	5/20/2011	90	0.5	1/21/2012	1,950	0.2
5/14/2011	180	0.4	5/24/2011	180	0.4	1/22/2012	2,010	0.5
6/3/2011	270	0.5	6/6/2011	270	0.0	1/22/2012	2,070	0.3
5/29/2011	345	0.3	6/8/2011	360	0.1	1/31/2012	2,130	0.5
5/29/2011	435	0.4	6/9/2011	450	0.2	1/31/2012	2,190	0.5
5/30/2011	524	0.4	6/10/2011	540	0.3	1/31/2012	2,250	0.3
5/30/2011	614	0.0	6/12/2011	630	0.5	2/1/2012	2,310	0.3
5/31/2011	704	0.2	6/14/2011	720	0.4	2/1/2012	2,370	0.2
5/31/2011	794	0.3	6/15/2011	810	0.4	2/1/2012	2,430	0.4
5/31/2011	884	0.3	6/16/2011	900	0.3	2/1/2012	2,490	0.4
6/1/2011	974	0.5	6/18/2011	990	0.4	2/1/2012	2,550	0.1
6/1/2011	1,064	0.5	7/23/2011	1,080	0.1	2/1/2012	2,610	0.4
7/1/2011	1,154	0.6	7/25/2011	1,170	0.4			
7/1/2011	1,244	0.3	7/26/2011	1,260	0.5			
7/1/2011	1,334	0.4	7/27/2011	1,350	0.2			
7/2/2011	1,424	0.4	7/29/2011	1,440	0.3			
7/2/2011	1,514	0.5	8/10/2011	1,530	0.5			
7/3/2011	1,604	0.5	28-Inch Reamed Hole					
8/13/2011	1,664	0.1						
8/15/2011	1,724	0.0	12/7/2011	1,590	0.5			
8/15/2011	1,784	0.1	12/8/2011	1,650	0.5			
8/16/2011	1,844	0.4	12/9/2011	1,710	0.5			
8/16/2011	1,904	0.4	12/10/2011	1,770	0.5			
8/17/2011	1,964	0.1	12/11/2011	1,830	0.5			
8/19/2011	2,024	0.3	12/13/2011	1,890	0.3			
8/19/2011	2,084	0.5	12/29/2011	1,950	0.5			
8/20/2011	2,144	0.2	1/2/2012	2,010	0.4			
8/20/2011	2,204	0.0	1/2/2012	2,070	0.3			
8/22/2011	2,264	0.0	1/3/2012	2,130	0.5			
8/25/2011	2,324	0.1	1/4/2012	2,190	0.4			
8/25/2011	2,384	0.1	1/5/2012	2,250	0.3			
8/26/2011	2,444	0.2	1/10/2012	2,310	0.0			
8/26/2011	2,504	0.0	1/11/2012	2,370	0.3			
8/29/2011	2,564	0.4	1/11/2012	2,430	0.1			
8/31/2011	2,624	0.3	1/12/2012	2,490	0.3			
9/4/2011	2,684	0.4	1/12/2012	2,550	0.4			
9/4/2011	2,744	0.4	1/13/2012	2,610	0.4			
9/4/2011	2,804	0.3	1/13/2012	2,670	0.3			
9/5/2011	2,864	0.4	1/13/2012	2,730	0.3			
9/5/2011	2,924	0.3	1/14/2012	2,790	0.4			
9/5/2011	2,984	0.4	1/14/2012	2,850	0.3			
9/6/2011	3,044	0.1						
9/6/2011	3,104	0.5						
9/7/2011	3,164	0.4						

bpl = below pad level

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

Florida Power & Light Company Turkey Point Exploratory Well EW-1 Daily Kill Material Log				
Date	Depth (feet bpl)	Kill Used	Approximate Volume (gallons)	Approximate Quantity (pounds)
9/22/2011	3228	Salt		4,000
10/9/2011	3220	Salt		6,000
10/10/2011	3220	Salt		6,000
10/12/2011	3227	Salt		4,000
10/23/2011	3234	Salt		6,000
10/29/2011	3211	Salt		6,000
11/7/2011	3223	Salt		6,000
11/19/2011	3232	Salt		4,000
11/28/2011	3232	Salt		4,000
12/6/2011	3232	Salt		6,000
12/14/2011	1960	Salt		8,000
12/15/2011	1960	Salt		8,000
1/5/2012	2270	Salt		8,000
1/9/2012	2270	Salt		2,000
1/15/2012	2900	Salt		6,000
1/16/2012	2900	Salt		4,000
1/22/2012	2900	Salt		8,000
1/24/2012	2900	Salt		6,000
1/26/2012	2900	Salt		4,000
feet bpl = feet below pad level				



X-Y CALIPER LOG

Company Layne Christensen Company
Well Turkey Point EW-1
Field Florida City
County Miami-Dade
State/Prv Florida

Company Layne Christensen Company
Well Turkey Point EW-1
Field Florida City
County Miami-Dade State/Prv Florida

Location	Other Services
FPL Turkey Point Power Plant LAT: 25 25' 19" N LONG: 80 20' 08" W McNabb Hydrogeologic Consulting, Inc.	NONE
Permanent Datum Log Measured From Drilling Measured From	Elevation K.B. D.F. G.L.
Pad Level Pad Level Pad Level	

Date	24-JAN-2012		
Run Number	TEN		
Depth Driller	2900'		
Depth Logger	2900'		
Bottom Logged Interval	2900'		
Top Log Interval	1475'		
Open Hole Size	28"/32"		
Type Fluid	H2O		
Density / Viscosity	NA/NA		
Max. Recorded Temp.	NA		
Estimated Cement Top	SURFACE		
Time Well Ready	13:45 1/24/2012		
Time Logger on Bottom	14:00 1/24/2012		
Equipment Number	MVGS-1		
Location	Ft. Myers		
Recorded By	S.Miller/C.Miller		
Witnessed By	M.Classen (ASRus)	A.Towel (LCC)	

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	12.25"	SURFACE	255'	FIVE	12.25"	1090'	1655'
TWO	62.5"	SURFACE	259'	SIX	42.5"	1090'	1542'
THREE	12.25"	255'	1090'	SEVEN	12.25"	1535'	3230'
FOUR	52.5"	255'	1095'	EIGHT	32"	1535'	2100'
Casing Record		Size	Wgt/Ft	Top		Bottom	
Surface String		64"	0.375" WT	SURFACE		33'	
Prot. String		54"	0.375" WT	SURFACE		255'	
Production String		44"	0.375" WT	SURFACE		1090'	
Liner		34"	0.375" WT	SURFACE		1535'	
Invoice No.		2012019	LTP1B.db	8fld/las/pdf		* FINAL PRINT *	

^^^ See Plot Here ^^^

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

Proposed Turkey Point Units 6 and 7
Docket Nos. 52-040 and 52-041
L-2012-055 Enclosure 3 Page 40 of 50

Comments

MAXIMUM Caliper Arm Extensions: 51"

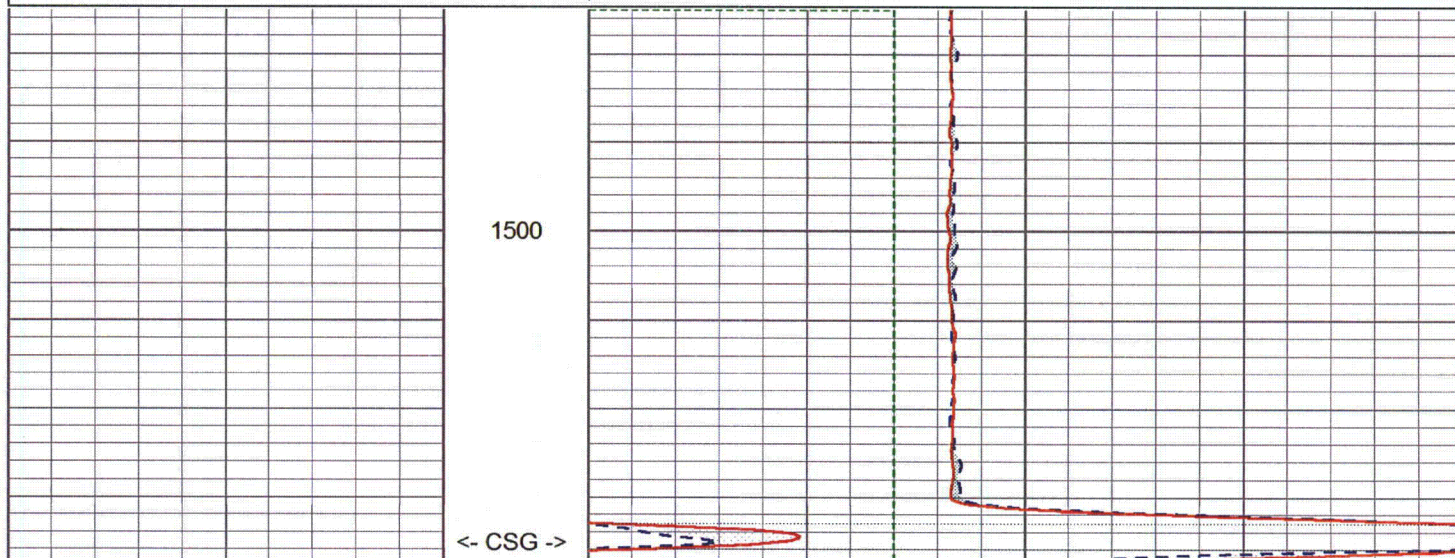
BOREHOLE RECORD
RUN SIZE FROM TO
NINE 28" 2100' 2900'

MV
Geophysical

MAIN PASS

Database File: ltp1b.db
Dataset Pathname: run12/MAIN
Presentation Format: xy2545-5
Dataset Creation: Tue Jan 24 15:28:56 2012
Charted by: Depth in Feet scaled 1:240

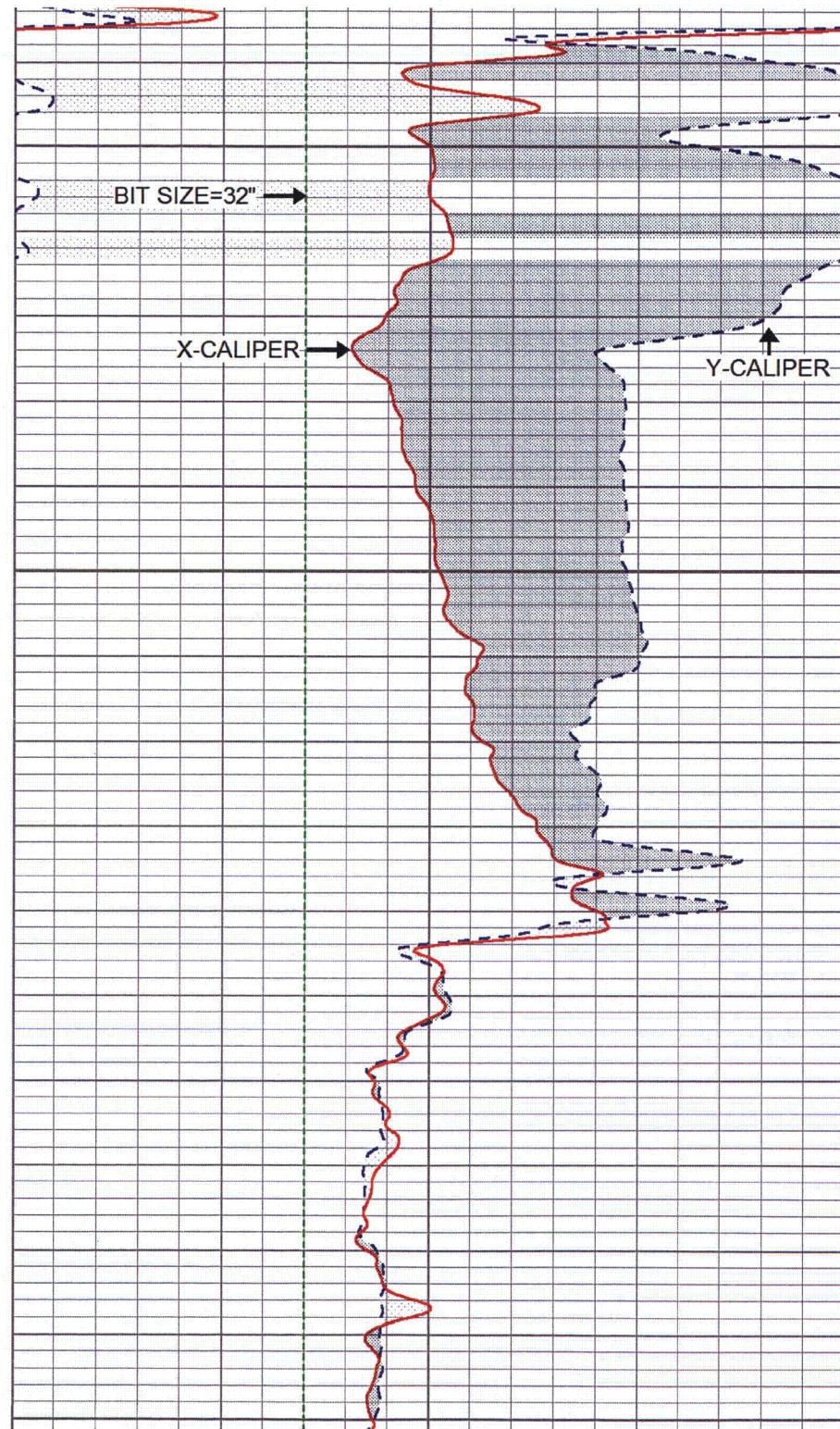
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25	X-CALIPER (in)	45
25	BIT SIZE (in)	45



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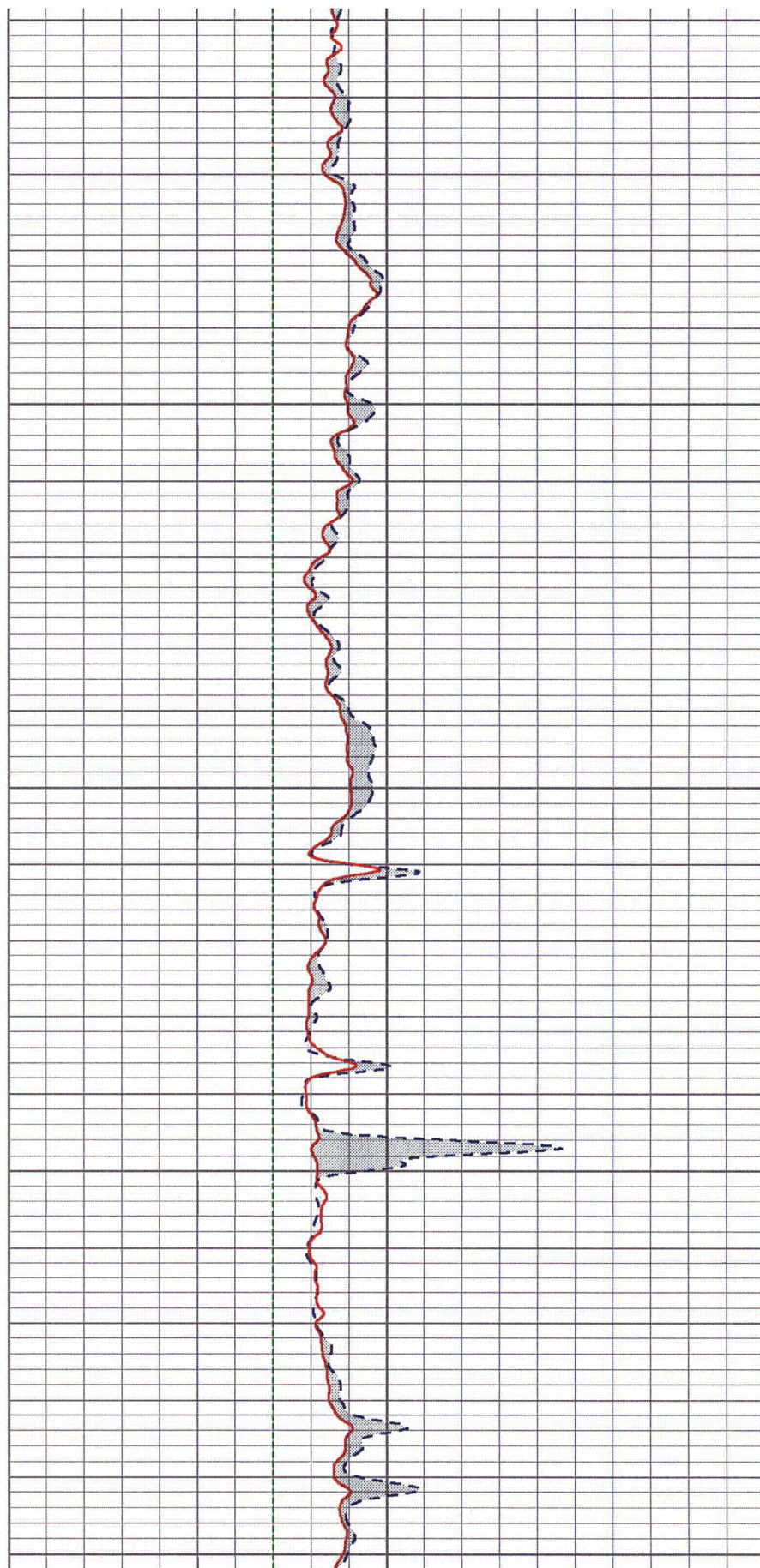
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1700

1800

1900

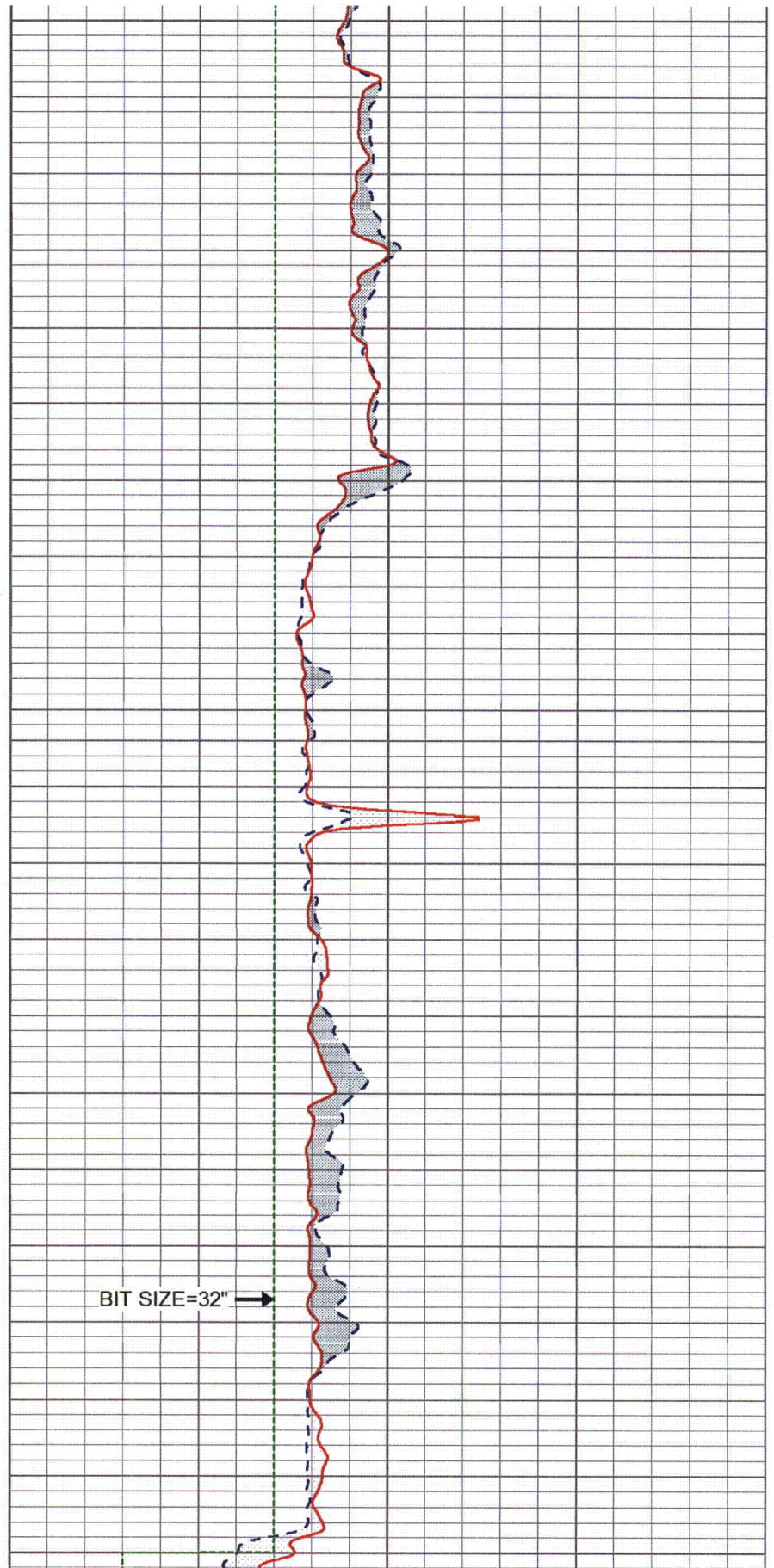


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2000

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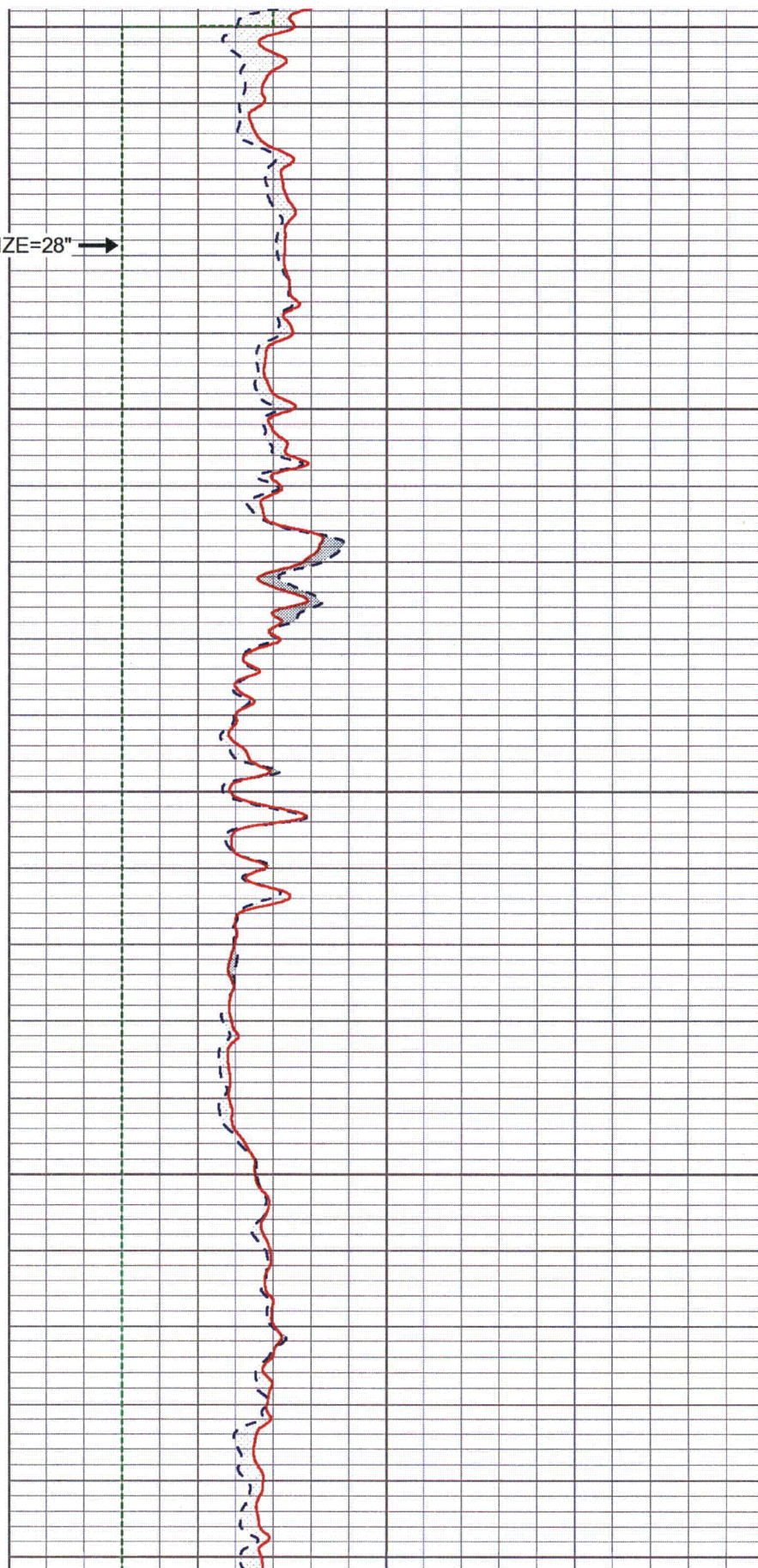


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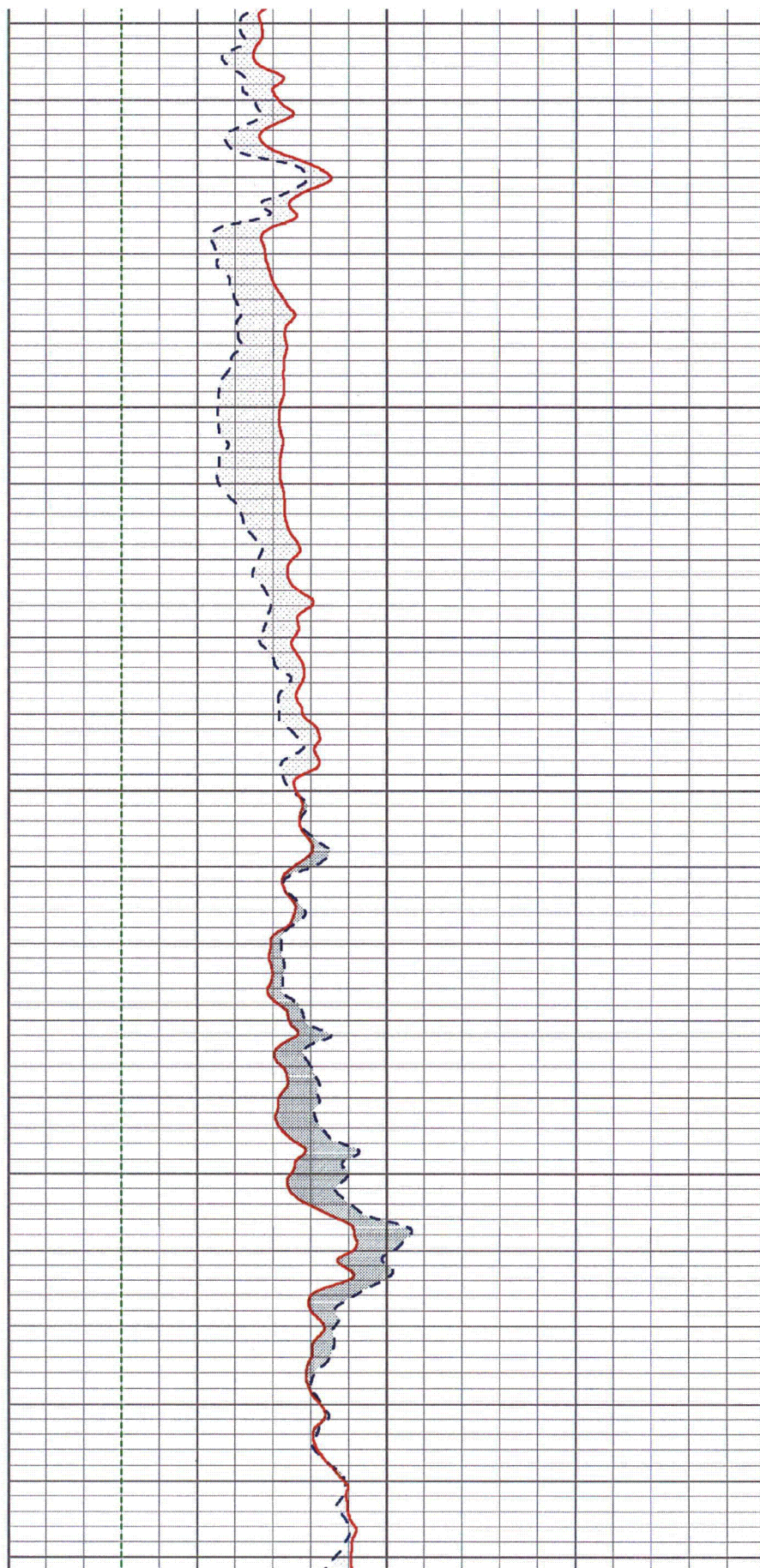
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2300

2400

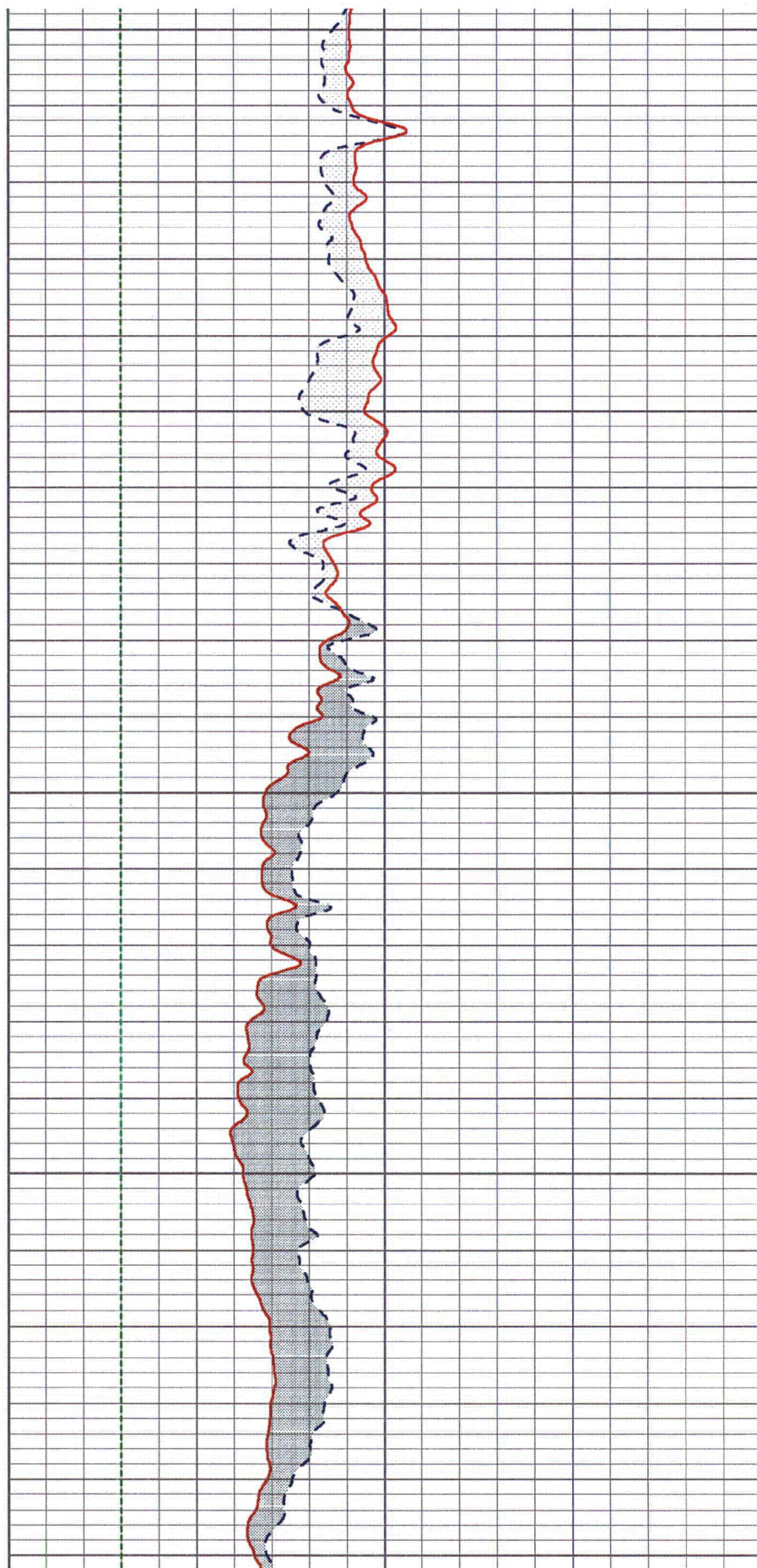
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2500

2600

2700

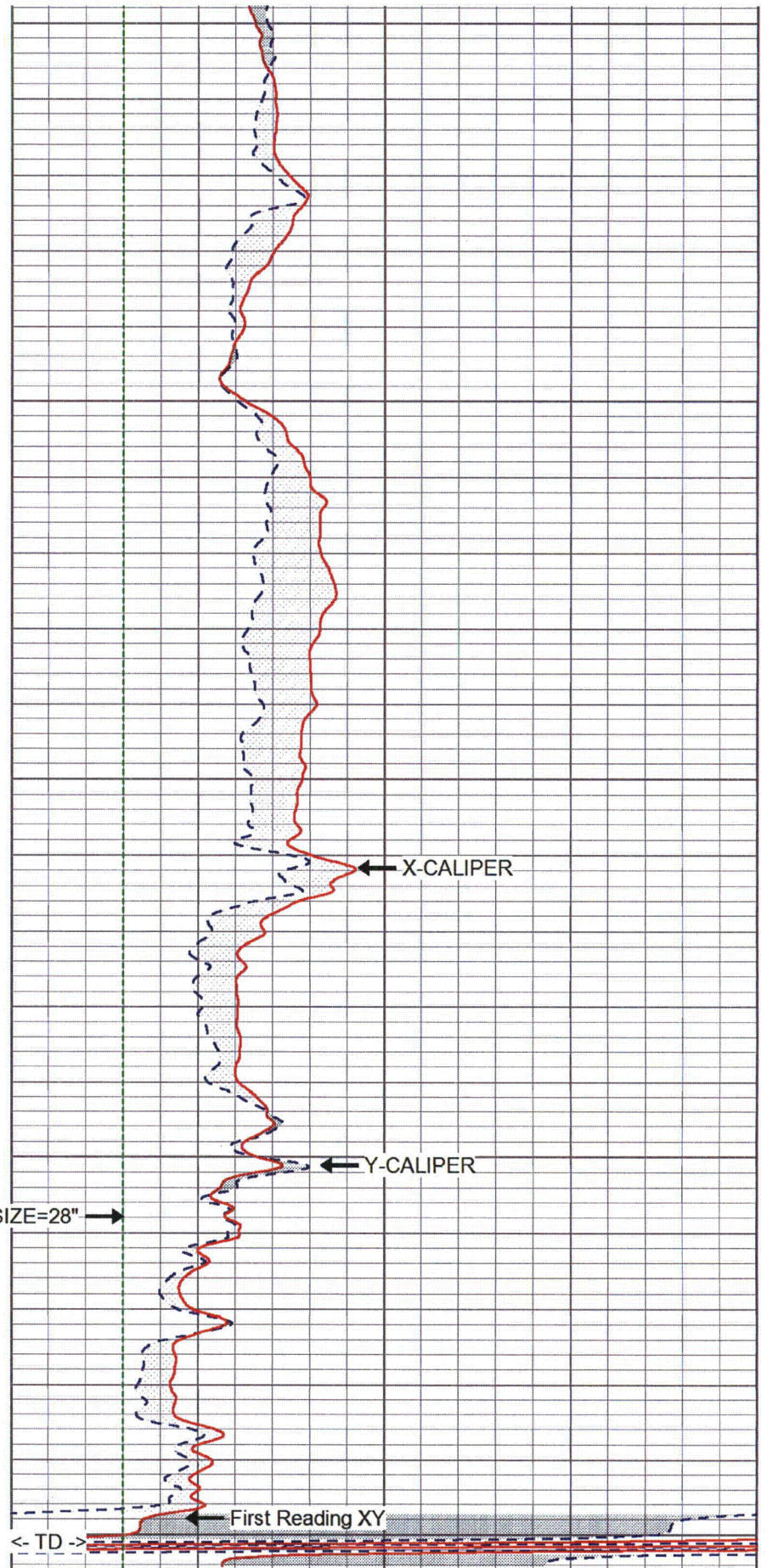


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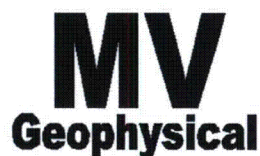
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2900



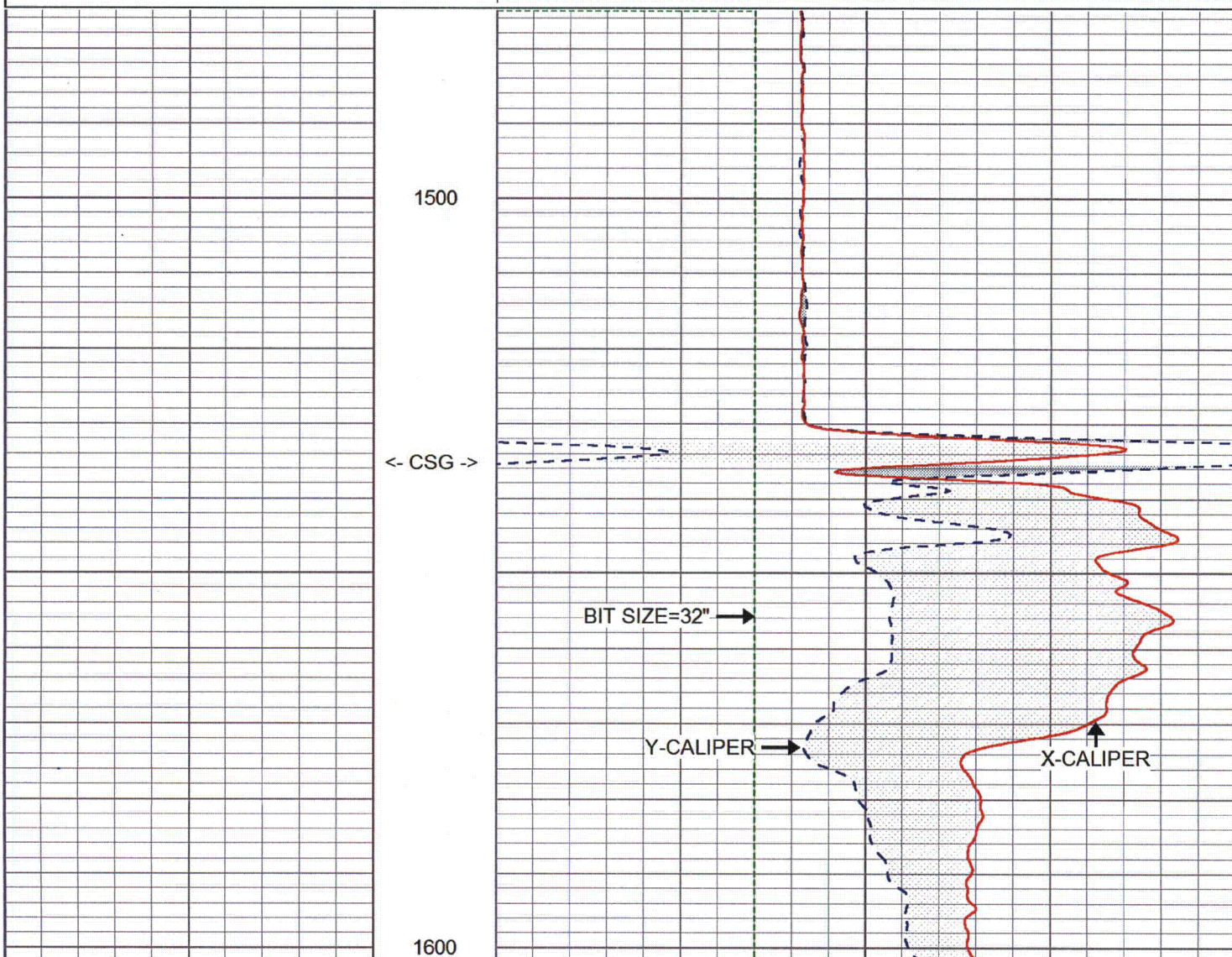
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Proposed Turkey Point Units 6 and 7	25	Y-CALIPER (in)	45
Docket Nos. 52-040 and 52-041	25	X-CALIPER (in)	45
L-2012-055 Enclosure 3 Page 48 of 50	25	BIT SIZE (in)	45



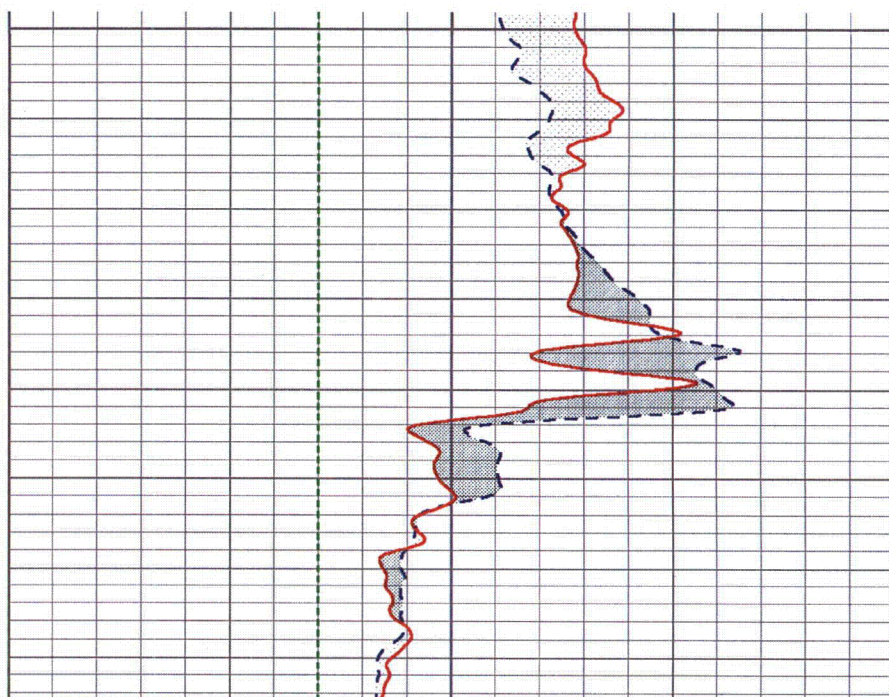
REPEAT SECTION

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 Presentation Format: xy2545-5
 Dataset Creation: Tue Jan 24 15:35:56 2012
 Charted by: Depth in Feet scaled 1:240

	25	Y-CALIPER (in)	45
	25	X-CALIPER (in)	45
	25	BIT SIZE (in)	45



1600



25	Y-CALIPER (in)	45
25	X-CALIPER (in)	45
25	BIT SIZE (in)	45

Calibration Report

Database File: ltp1b.db
Dataset Pathname: run12/pass2
Dataset Creation: Tue Jan 24 15:16:29 2012 by Log VER_5.3

XY Caliper Calibration Report

Serial Number:	01L		
Tool Model:	XYCL		
Performed:	Tue Jan 24 15:22:18 2012		
Small Ring:	33.25	in	
Large Ring:	51	in	
	X Caliper	Y Caliper	
Reading with Small Ring:	883	904	cps
Reading with Large Ring:	1133.3	1074.8	cps
Gain:	0.0709149	0.103923	
Offset:	-29.4878	-60.6961	

Gamma Ray Calibration Report

Serial Number:	01		
Tool Model:	GROH		
Performed:	Tue Jan 17 14:42:44 2012		
Calibrator Value:	120	GAPI	
Background Reading:	14.164	cps	
Calibrator Reading:	132.338	cps	
Sensitivity:	1.01545	GAPI/cps	

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
GR	7.60		GR-GROH (01)	2.75	3.50	40.00
XCAL YCAL	2.25 2.25		XYZ-XYCL (01L)	6.60	3.50	87.00
Dataset: ltp1b.db: field/well/run12/pass2 Total Length: 9.35 ft Total Weight: 127.00 lb O.D. 3.50 in						