FPL.

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

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NRO

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

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

MHC 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.

1/20/12

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
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
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: 2,886 feet bpl
Ending Depth: 2,900 feet bpl
Weather Day: Sunny, Cool
Recorded By: David McNabb/Marty Clasen
Weather Night: Clear, Cold
Activity: Reaming, Installing Straddle Packers

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.

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.

MHC McNabb Hydrogeologic Consulting, Inc.

ASRUS, LLC

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.

MHC McNabb Hydrogeologic Consulting, Inc.

ASRUS, LLC

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.

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.
DATE: 01-12-12 THUR DAYS.
JOB #: 11771
JOBSITE NAME: EW-1
JOBSITE LOCATION: T.P.

PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
DRILLER	Bosit Guliamov	X	12		12
V.I	VLAD ISKIMOV	X	12		12
V.M	VICTOR MOISYEV	X	12		12
A.B.	ALMAI BURKHONOV	X	12		12

EQUIPMENT DELIVERED TODAY

Description	Unit #	Status

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

DAILY ACCOUNTING OF ACTIVITIES BY ITEM

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

MATERIALS USED TODAY

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

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

Drill 28" BIT: From/- 2519' BPL - TO - 2525' BPL
RUN SURVE: 2490' @ .3. MAKE CONNECTION: START
DRILL FROM/- 2525' BPL - TO - 2570' BPL. RUN SURVE -
2550' @ .6 - MAKE CONNECTION: GO BACK DRILL FROM/-
- 2570' BPL - TO - 2585' BPL.

Driller's Signature: [signature] Date: 01-12-11
Check Signature: PAYROLL Date:
Supervisor's Signature: [signature] Date:

LCC 0581 032209

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT: FPL
JOBSITE NAME: EW-1
DATE: 1-12-2012 Thurs. Nights
JOB #: 11771
JOBSITE LOCATION: Turkey Point

PERSONNEL EMPLOYED TODAY

Time Assignment	Employee Full Name	Attended? (X)	Straight Hours	Hybrid Hours	Total Hours
Drill MGR	Michael A Ramirez	X	12		12
	Justin Nieto	X	12		12
	James Mcdonnell	X	12		12
	Justin Yeomans	X	12		12

EQUIPMENT DEPLOYED TODAY

Description	Unit #	Status

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

DAILY ACCOUNTING OF ACTIVITIES BY ITEM #

Item #	Cost Code	Description	Hours
1	[illegible]	[illegible]	
2	[illegible]	[illegible]	
3	[illegible]	[illegible]	
4	[illegible]	[illegible]	
5	[illegible]	[illegible]	
6	[illegible]	[illegible]	
7	[illegible]	[illegible]	
8	[illegible]	[illegible]	
9	[illegible]	[illegible]	
10	[illegible]	[illegible]	
11	[illegible]	[illegible]	
12	[illegible]	Install Roadway & Drill Pad	
13	[illegible]	[illegible]	
14	[illegible]	[illegible]	
15	[illegible]	[illegible]	
16	[illegible]	[illegible]	
17	[illegible]	[illegible]	
18	[illegible]	[illegible]	
19	[illegible]	[illegible]	
20	[illegible]	[illegible]	
21	[illegible]	[illegible]	
22	[illegible]	[illegible]	
23	[illegible]	[illegible]	
24	[illegible]	[illegible]	
25	[illegible]	[illegible]	
26	[illegible]	[illegible]	
27	[illegible]	[illegible]	
28	[illegible]	[illegible]	
29	[illegible]	[illegible]	
30	[illegible]	[illegible]	
31	[illegible]	[illegible]	
32	[illegible]	[illegible]	
33	[illegible]	[illegible]	
34	[illegible]	[illegible]	
35	[illegible]	[illegible]	
36	[illegible]	[illegible]	
37	[illegible]	[illegible]	
38	[illegible]	[illegible]	
39	[illegible]	[illegible]	
40	[illegible]	[illegible]	
41	[illegible]	[illegible]	
42	[illegible]	[illegible]	
43	[illegible]	[illegible]	
44	[illegible]	[illegible]	
45	[illegible]	[illegible]	
		[illegible]	
		TOTAL HOURS	

MATERIALS UNDER REPAIR

Quantity	Description
	Safety Meetings
1)	Housekeeping / Change House upkeep
2)	Lyhtning
	PPE, Pinch Points, ladder safety, Slip-trip-Fall
	Bad weather.

TIME OF ACTIVITY BY ITEM

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

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

Continue drilling w/ 28" bit from 2585' bgl to 2615' bgl. Make Connection, continue drilling w/ 28" bit from 2615' bgl to 2653' bgl. Scrub front of big Pail, Scrub clean floor & handrails. lightning break from 9:30 - 11:30 am. Clean Parts & Change house. Take out Trash.

Supervisor's Signature: [signature] Date: LCCDSR1 032205

Client's Signature: PAYROLL Date:

Superintendent's Signature: [signature] Date:

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT: E.P.L

DATE: 01-13-2012 FRI DAYS

JOB#: 11721

LOCATION NAME: EW-1

JOBSITE LOCATION: T.P.

PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
Driller	Bosit Gulomov	X	12		12
V.I	VLAD ISHIMOV	X	12		12
A.B	AKMAL BURKHONOV	X	12		12
V.M	VICTOR MOISYEV	X	12		12

EQUIPMENT DEPLOYED TODAY

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

LABOR ACCOUNTING OF ACTIVITIES BY ITEM #

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

MATERIALS USED TODAY

Item #	Description
	SAFETY MTG!
1	BACKHOE/ LOADERS!
2	IONIZING RADIATIONS!
	HAND SAFETY! PINCH POINT!
	HIGH PRESS LINES!

TIME OF ACTIVITY BY ITEM #

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

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

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
2670' @ .3 - MAKE CONNECTION: CONTINUE DRILL
FROM /- 2705' BPL - TO - 2716' BPL

Driller Signature: [signature] Date: 01-13-12

Client's Signature: PAYROLL

Supervisor's Signature: [signature]

LCC DSR1 082209

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

Proposed Turkey Point Units 6 and 7
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CLIENT: FPL
JOBSITE NAME: Ewel
DATE: 1-13-12 Friday
JOB #: 11271
JOBSITE LOCATION: Turkey Point

PERSONNEL ON BOARD TODAY

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

EQUIPMENT DEPLOYED TODAY

Equipment	Unit #	Hours

Working	[illegible]	Layed Down	[illegible]
Standby	[illegible]	Down for Repairs	[illegible]
Down in Shop	[illegible]	Available for Rent	[illegible]
Down on Site	[illegible]	Available on Site	[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 & Drill Pad	
14	12050	Test Hole Drilling	
15	12100	Geophysical Logging & Other Testing	
16	12150	Aquifer Zone Testing	
17	12200	Borehole Abandonment	
18	13050	Production Well Installation	
19	13100	Install Conductor Pipe	
20	13150	Drill Pilot Hole	
21	13200	Geophysical Logging & Other Testing	
22	13250	Aquifer Zone Testing	
23	13300	Borehole Abandonment/Cement Plugs	
24	13350	Reaming	
25	13400	Under Reaming	
26	13450	Install Casing	
27	13500	Install Screen	
28	13550	Gravel Pack The Well	
29	13600	Install Annular Seal	
30	13650	Water Watching	
31	14050	Well Development Air Lift and Swab	
32	14100	Disposal of Fluids & Cuttings	
33	14150	Furnish & Install Test Pump and Discharge	
34	14200	Development Pumping	
35	14250	Test Pumping	
36	14300	Disinfection and Chlorination	
37	19050	Offsite Activities Mob/Demob	
38	19100	Shop	
39	19150	Administration	
40	19550	Other Activities Standby	
41	19600	Fishing for Lost/Broken Tooling	
42	19650	Change Order Activities	
43	88000	Equipment Repairs	
44	90170	Damages	
45	90200	Job Superintendent	
		Lunch	
		TOTAL HOURS	

MATERIALS USED TODAY

Quantity	Description
	Safety Meetings
1)	HIRA
2)	running Deviation Survey
	PPE, pinch points, Biohazards, Power tool safety, ladder
	Safety, Eyes on Path, electrical safety

TIME OF ACTIVITY BY ITEM #

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

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, Housekeeping, Clean out old lockers/change house

Initiator's Signature: M R
Date:
Client's Signature:
PAYROLL
Date:
Supervisor's Signature:
Date:

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT: FPL
DATE: 01-14-2012 SAT DAYS.
JOB #: 11771
JOBSITE NAME: EW-1
JOBSITE LOCATION: T.P.

PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
Driller	Bosit Guiomov	X	12		12
G.H	GEORGE HAGA	X	10		10
V.I	VLAD ISHIMOV	X	12		12
A.B	ALMAI BURKHONOV	X	12		12
V.M	VICTOR MOISYEV	X	12		12

EQUIPMENT DEPLOYED TODAY

Description	Unit #	Status

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

DAILY ACCOUNTING OF ACTIVITIES BY ITEM #

Item #	Cost Code	Labor Activity	Hours
1	10000	Short Duration Job	
2	11100	Onsite Mob/Demob	
3	11150	Job Preparation	
4	11200	Safety Meeting	
5	0005	Training - Overhead	
6	0006	Shop - Overhead	
7	0007	Maintenance - Overhead	
8	11250	Training Job Chargeable	
9	11300	Site clean up	
10	11350	Install Sound Walls	
11	11400	Install Decon Pad	
12	11450	Install Surface Casing	
13	11500	Install Roadway & Drill Pad	
14	12050	Test Hole Drilling	
15	12100	Geophysical Logging & Other Testing	
16	12150	Aquifer Zone Testing	
17	12200	Borehole Abandonment	
18	13050	Production Well Installation	
19	13100	Install Conductor Pipe	
20	13150	Drill Pilot Hole	
21	13200	Geophysical Logging & Other Testing	
22	13250	Aquifer Zone Testing	
23	13300	Borehole Abandonment/Cement Plugs	
24	13350	Reaming	
25	13400	Under Reaming	
26	13450	Install Casing	
27	13500	Install Screen	
28	13550	Gravel Pack The Well	
29	13600	Install Annular Seal	
30	13650	Water 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	Mobile Activities Mob/Demob	
38	19100	Shop	
39	19150	Administration	
40	19550	Other Activities Standby	
41	19600	Fishing for Lost/Broken Tooling	
42	19650	Change Order Activities	
43	88000	Equipment Repairs	
44	90170	Damages	
45	90200	Job Superintendent	
		Lunch	
		TOTAL HOURS	

MATERIALS USED TODAY

Quantity	Description
	SAFETY MTG!
1	VEHICLE SAFETY!
2	H.I.R.A.
	DUMP TRACK 3
	HAND SAFETY! PINCH POINT! HIGH
	PRESS LINE! LOADER SAFETY!

TIME OF ACTIVITY BY ITEM #

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

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

DRILL 28" BIT: FROM /- 2789' BPL - TO - 2795' BPL
RUN SURVE 2790' @ .4 - MAKE CONNECTION: CONTINUE -
DRILL FROM /- 2795' BPL - TO - 2840' BPL
MAKE CONNECTION: CONTINUE DRILL FROM /- 2840' BPL -
- TO - /2847' BPL.

Initials/Signature: 01-14-12 Date

Client's Signature: PAYROLL Date

Supervisor's Signature: Date

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

Proposed Turkey Point Units 6 and 7
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CLIENT: FPL
JOBSITE NAME: EW-1
DATE: 1-14-2012
SHIFT: [illegible]
JOB #: 11771
JOBSITE LOCATION: Turkey Point

PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
Drill Mgr	Michael A. Ramirez	X	12		12
JN	Juan Nieto	X	12		12
[illegible]	James Mcdonnell	X	12		12
JY	Justin Yeomans	X	12		12

EQUIPMENT DEPLOYED TODAY

Description	Unit #	Status

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

DAILY ACCOUNTING OF ACTIVITIES BY ITEM

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

MATERIALS USED TODAY

Quantity	Description
	Safety Meetings
	Job Hazard Analysis
	Visual Hazard Identification
	PPE, fall protection, wildlife, loader safety, electrical hazard, eye protection, hand tool safety.

TIME OF ACTIVITY BY ITEM

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

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

Continue Drilling w/ 28" bit from 2847' bpl to 2886 bpl
Grease & tighten Washpipe / Packing.
Run Deviation Survey at 2850' bpl got 0.3°
Housekeeping, Sweep/mop trailer, MCC's, Parts & Change house, Run Trash.

Foreman Signature: [illegible]
Date:
Company Representative Signature: [illegible]

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

Proposed Turkey Point Units 6 and 7
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CLIENT: FPL
DATE: 1/15/12
JOB #: 11771
JOBSITE NAME: EW-1
JOBSITE LOCATION: T.P.

PERSONNEL EMPLOYED TODAY

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 ISHANOV	X	12		12
A.P.	ANDREY POPOV	X	12		12

EQUIPMENT OPERATED 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

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 #

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

DAILY ACCOUNTING OF ACTIVITIES BY ITEM #

Item #	Cost Code	Labor Activity	Hours
1	10000	Short Duration Job	
2	11100	Onsite Mob/Demob	
3	11150	Job Preparation	
4	11200	Safety Meeting	
5	0005	Training - Overhead	
6	0006	Shop - Overhead	
7	0007	Maintenance - Overhead	
8	11250	Training - Job Chargeable	
9	11300	Site Clean up	
10	11350	Install Sound Walls	
11	11400	Install Decon Pad	
12	11450	Install Surface Casing	
13	11500	Install Roadway & Drill Pad	
14	12050	Test Hole Drilling	
15	12100	Geophysical Logging & Other Testing	
16	12150	Aquifer Zone Testing	
17	12200	Borehole Abandonment	
18	13050	Production Well Installation	
19	13100	Install Conductor Pipe	
20	13150	Drill Pilot Hole	
21	13200	Geophysical Logging & Other Testing	
22	13250	Aquifer Zone Testing	
23	13300	Borehole Abandonment /Cement Plugs	
24	13350	Reaming	
25	13400	Under Reaming	
26	13450	Install Casing	
27	13500	Install Screen	
28	13550	Gravel Pack The Well	
29	13600	Install Annular Seal	
30	13650	Water Watching	
31	14050	Well Development Air Lift and Swab	
32	14100	Disposal of Fluids & Cuttings	
33	14150	Furnish & Install Test Pump and Discharge	
34	14200	Development Pumping	
35	14250	Test Pumping	
36	14300	Disinfection and Chlorination	
37	19050	Site Activities Mob/Demob	
38	19100	Shop	
39	19150	Administration	
40	19190	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	

COMMENTS - EVENTS - CONDITIONS - CHANGES OTHER INFORMATION

CONTINUE REAMING 28" BIT FROM 2886 BPL
- 2900' BPL
TOOH WITH STABILIZERS BREAK WITH TONGS
LOG HOLE KILL WELL 2 BAGS SALTER

Written or Signature Date: 1/15/12 Time

Client's Signature Date

PAYROLL

Rep's Initials Time

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

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

CLIENT: FPL
JOBSITE NAME: EW-1
DATE: 1/15/2012 Sunday Night
JOB #: 11771
JOBSITE LOCATION: Turkey Point

PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
Drill MR	Michael A. Ramirez	X	12		12
JN	Juan Nieto	X	12		12
	James Mcdonnell	X	12		12
	Justin Yeomans	X	12		12

EQUIPMENT ON SITE TODAY

Description	Unit #	Status

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

DAILY ACCOUNTING OF ACTIVITIES BY ITEM

Item #	Cost Code	Labor Activity	Hours
1	10000	Short Duration Job	
2	11100	Onsite Mob/Demob	
3	11150	Job Preparation	
4	11200	Safety Meeting	
5	0005	Training - Overhead	
6	0006	Shop - Overhead	
7	0007	Maintenance - Overhead	
8	11250	Training - Job Chargeable	
9	11300	Site Clean Up	
10	11350	Install Sound Walls	
11	11400	Install Decon Pad	
12	11450	Install Surface Casing	
13	11500	Install Roadway & Drill Pad	
14	12050	Test Hole Drilling	
15	12100	Geophysical Logging & Other Testing	
16	12150	Aquifer Zone Testing	
17	12200	Borehole Abandonment	
18	13050	Production Well Installation	
19	13100	Install Conductor Pipe	
20	13150	Drill Pilot Hole	
21	13200	Geophysical Logging & Other Testing	
22	13250	Aquifer Zone Testing	
23	13300	Borehole Abandonment/Cement Plugs	
24	13350	Reaming	
25	13400	Under Reaming	
26	13450	Install Casing	
27	13500	Install Screen	
28	13550	Gravel Pack The Well	
29	13600	Install Annular Seal	
30	13650	Water Watching	
31	14050	Well Development Airlift 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	19700	Equipment Repairs	
44	90170	Damages	
45	90200	Job Superintendent	
		Lunch	
		TOTAL HOURS	

MATERIALS USED TODAY

Quantity	Description
	Safety Meetings
1)	tripping in Packers
2)	~~[illegible]~~ Securing tools
	PPE, logging, overhead dangers, fall protection, pinch points, high pressure lines.

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	

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

Log Hole. Add 1 bag Salt. Trip in Packers.

Inspector's Signature: M. Ramirez
Date:
Client's Signature:
PAYROLL
Date:
Superintendent's Signature:
Date:

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

Proposed Turkey Point Units 6 and 7
Docket Nos. 52-040 and 52-041
L-2012-055 Enclosure 1 Page 26 of 56

CLIENT FPL
JOBSITE NAME EW7
DATE 16-12 MON DAYS
JOB # 11771
JOBSITE LOCATION TP

PERSONNEL EMPLOYED TODAY

Title Assignment	Employee Full Name	Per Diem Y/N	Quantity Hours	Other Hours	Total Hours
DRILLER	Danny Keeley	X	12		12
C.A.	George HAGA	X	12		12
A.P.	Andrey POPOV	X	12		12
~~[illegible]~~	~~[illegible] Ismailov~~	~~X~~	~~8~~	~~/~~	~~8~~
H.B.	AKMAL BURKHANOV	X	12		12

EQUIPMENT DEPLOYED TODAY

Description	Unit #	Status

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

DAILY ACCOUNTING OF ACTIVITIES BY ITEM

Item #	Cost Code	Labor Activity	Hours
1	10000	Short Duration Job	
2	11100	Onsite Mob/Demob	
3	11150	Job Preparation	
4	11200	Safety Meeting	
5	0005	Training Overhead	
6	0006	Shop - Overhead	
7	0007	Maintenance - Overhead	
8	11250	Training Job Chargeable	
9	11300	Site Clean up	
10	11350	Install Sound Walls	
11	11400	Install Decon Pad	
12	11450	Install Surface Casing	
13	11500	Install Roadway & Drill Pad	
14	12000	Test Hole Drilling	
15	12100	Geophysical Logging & Other Testing	
16	12150	Aquifer Zone Testing	
17	12200	Borehole Abandonment	
18	13050	Production Well Installation	
19	13100	Install Conductor Pipe	
20	13150	Drill Pilot Hole	
21	13200	Geophysical Logging & Other Testing	
22	13250	Aquifer Zone Testing	
23	13300	Borehole Abandonment/Cement Plugs	
24	13350	Reaming	
25	13400	Under Reaming	
26	13450	Install Casing	
27	13500	Install Screen	
28	13550	Gravel Pack The Well	
29	13600	Install Annular Seal	
30	13650	Water Watching	
31	14050	Well Development Air Lift and Swab	
32	14100	Disposal of Fluids & Cuttings	
33	14150	Furnish & Install Test Pump and Discharge	
34	14200	Development Pumping	
35	14250	Test Pumping	
36	14300	Disinfection and Chlorination	
37	19050	Other Activities Mob/Demob	
38	19100	Shop	
39	19150	Administration	
40	19550	Other Activities Standby	
41	19600	Fishing for Lost/Broken Tooling	
42	19650	Change Order Activities	
43	86000	Equipment Repairs	
44	90170	Damages	
45	90200	Job Superintendent	
		Lunch	
		TOTAL HOURS	

MATERIALS USED TODAY

Quantity	Description
	SAFETY MEETING
#1	TRIPPIN PACKERS
#2	IDEA OF SUCCESS
-	Volvo Mechanic change drive on front end loader
	Slips, Trips & Falls, packer hose on
	floor, pinch points PPE.

TIME OF ACTIVITY BY ITEM

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

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

TIH WITH PACKER @ 2574 BPL
IN FLOW PACKERS @ 2574 AND TRIP IN BALANCE
PUMP OUT SLURRY PIT
START AIR DEVELOP @ 2PM (ANULAR MOVEMENT
AND STOP AIR DEVELOP DEFLATE AND MOVE PACKERS
RE INFLATE PACKER ADDED 2FT PUP 45 single, 1 FT PUP. 2004 PUP. Packer set. 2634 bpl.
1-16-12 Packers worker as packer [illegible]

Supervisor's Signature | Date | Client's Signature | PAYROLL | Date | Layne Inc.'s Signature | Title

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

Proposed Turkey Point Units 6 and 7
Docket Nos. 52-040 and 52-041
L-2012-055 Enclosure 1 Page 27 of 56

CLIENT: FPL
JOBSITE NAME: EW-1
DATE: 1/16/2012 Monday Night
JOB #: 11071
JOBSITE LOCATION: Turkey Point

PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
Drill Mnge	Michael A. Ramirez	X	12		12
Jd	Juan Nieto	X	12		12
Jm	James McDonnell	X	12		12
JY	Justin Yeomans	X	12		12
VM	Victor Moisyev	X	12		12
VI	Vlad Isimov	X	12		12

EQUIPMENT USED TODAY

Description	Unit #	Status

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

DAILY ACCOUNTING OF ACTIVITIES BY ITEM #

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

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

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

Driller's Signature: Date:
Client's Signature: Date:
PAYROLL
Supervisor's Signature: Date:

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT FPL

DATE 1-17-12
TUE DAYS

JOB # 11771

JOBSITE NAME EW1

JOBSITE LOCATION T-P.

PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
Driller	Danny Keeley	X	12		12
CH	George Hugh	X	12		12
A.P.	Andrey Popov	X	12		12

EQUIPMENT DEPLOYED TODAY

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

DAILY ACCOUNTING OF ACTIVITIES BY ITEM

Item #	Cost Code	Activity	Hours
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	Install Sound Walls	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	Install Surface Casing	
[illegible]	[illegible]	Install Roadway & Drill Pad	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	Geophysical Logging & Other Testing	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	Well Development Air Lift and Swab	
[illegible]	[illegible]	Disposal of Fluids & Cuttings	
[illegible]	[illegible]	Furnish & Install Test Pump and Discharge	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	Fishing for Lost/Broken Tooling	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	
		[illegible]	
		TOTAL HOURS	

MATERIALS USED TODAY

Quantity	Description
	SAFETY MEETING
#1	MONTHLY SAFETY REVIEW Proper Lifting technique
#2	High pressure hoses VISUAL OF SUCCESS
	Pinch points, Loader Safety, high pressure lines, proper lifting technique.

TIME OF ACTIVITY BY ITEM

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

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

TIH WITH PACKER SET PACKER @ 2844 to 2864
RUN AIRLINE ATTEMPT TO START AIR DEVELOP
SEVERAL TRIALS WITH [illegible] IN ANULAS PUMP
PACKER MORE START AIR DEVELOP - PRODUCE TOO
MUCH WATER STOP TEST. INFLATING PACKER → MADE WALL CONTACT
AT 160 psi → PULLED 9000 lbs WHILE INFLATING → BUMPED PACKER PRESSURE TO 650 psi →
→ ANNULUS WATER LEVEL STEADY.

Installer's Signature | Date | Client's Signature | Date | Supervisor's Signature | Date

PAYROLL

CREW: F.P.L

DATE: 01-17-2012 THE NIGHT

JOB # 11771

JOBSITE NAME: EWD-1

JOBSITE LOCATION: T.P

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

MATERIALS USED TODAY

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

TIME OF ACTIVITY BY ITEM #

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

Item #	Cost Code	Labor Activity	Hours
1	10000	Short Duration Job	
2	11100	Onsite Mob/Demob	
3	11150	Job Preparation	
4	11200	Safety Meeting	
5	0005	Training - Overhead	
6	0006	Shop - Overhead	
7	0007	Maintenance - Overhead	
8	11250	Training - Job Chargeable	
9	11300	Site Clean up	
10	11350	Install Sound Walls	
11	11400	Install Decon Pad	
12	11450	Install Surface Casing	
13	11500	Install Roadway & Drill Pad	
14	12050	Test Hole Drilling	
15	12100	Geophysical Logging & Other Testing	
16	12150	Aquifer Zone Testing	
17	12200	Borehole Abandonment	
18	13050	Production Well Installation	
19	13100	Install Conductor Pipe	
20	13150	Drill Pilot Hole	
21	13200	Geophysical Logging & Other Testing	
22	13250	Aquifer Zone Testing	
23	13300	Borehole Abandonment/Cement Plugs	
24	13350	Reaming	
25	13400	Under Reaming	
26	13450	Install Casing	
27	13500	Install Screen	
28	13550	Gravel Pack The Well	
29	13600	Install Annular Seal	
30	13650	Water 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	Utility Activities Mob/Demob	
38	19100	Shop	
39	19150	Administration	
40	19550	Other Activities Standby	
41	19600	Waiting for Lost/Broken Tooling	
42	19650	Change Order Activities	
43	88000	Equipment Repairs	
44	90170	Damages	
45	90200	Job Superintendent	
		Lunch	
		TOTAL HOURS	

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

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

01-17-12

Date

Clerk's Signature

PAYROLL

Date

Date

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT: FPL
DATE: 1/18/12
JOB #: 11771
JOBSITE NAME: EW-1
WED. DAY
JOBSITE LOCATION: T.P.

PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
DRILLER	DANNY KEELEY	X	14		14
GH	GEORGE HAGA	X	12		12
AP	ANDREY POPOV	X	12		12

EQUIPMENT INPUT/EQ TODAY

Description	Unit #	Status

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

DAILY ACCOUNTING OF ACTIVITIES BY ITEM

Item #	Cost Code	Labor Activity	Hours
1	10000	Short Duration Job	
2	11100	Onsite Mob/Demob	
3	11150	Job Preparation	
4	11200	Safety Meeting	
5	0005	Training - Overhead	
6	0006	Shop - Overhead	
7	0007	Maintenance - Overhead	
8	11250	Training - Job Chargeable	
9	11300	Site Clean up	
10	11350	Install Sound Walls	
11	11400	Install Decon Pad	
12	11450	Install Surface Casing	
13	11500	Install Roadway & Drill Pad	
14	12050	Test Hole Drilling	
15	12100	Geophysical Logging & Other Testing	
16	12150	Aquifer Zone Testing	
17	12200	Borehole Abandonment	
18	13050	Production Well Installation	
19	13100	Install Conductor Pipe	
20	13150	Drill Pilot Hole	
21	13200	Geophysical Logging & Other Testing	
22	13250	Aquifer Zone Testing	
23	13300	Borehole Abandonment/Cement Plugs	
24	13350	Reaming	
25	13400	Under Reaming	
26	13450	Install Casing	
27	13500	Install Screen	
28	13550	Gravel Pack The Well	
29	13600	Install Annular Seal	
30	13650	Water Washing	
31	14050	Well Development Air Lift and Swab	
32	14100	Disposal of Fluids & Cuttings	
33	14150	Furnish & Install Test Pump and Discharge	
34	14200	Development Pumping	
35	14250	Test Pumping	
36	14300	Disinfection and Chlorination	
37	19050	Offsite Activities Mob/Demob	
38	19100	Shop	
39	19150	Administration	
40	19550	Other Activities Standby	
41	19600	Fishing for Lost/Broken Tooling	
42	19650	Change Order Activities	
43	19800	Equipment Repairs	
44	90170	Damages	
45	90200	Job Superintendent	
		Lunch	
		TOTAL HOURS	

MATERIALS USED TODAY

Quantity	Description
	SAFETY MEETINGS:
	#1 LEADERSHIP BY EXAMPLE
	#2 PPE
	INCH OF SUCCESS
	PPE, LOADER SAFETY, PINCH POINTS,
	USING POWER TOOLS

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	

COMMENTS - EVENTS / CONDITIONS - CHANGES - OTHER INFORMATION

CANRIG ISSUE: WAITING ON ORDERS
HELPED WELDER; HOUSEKEEPING; GROUP TOUR ON RIG
WORKED ON CLEAN ASSIST

Tallyer's Signature: 1/18/12 Date
Clerk's Signature: Date
Supervisor's Signature: Date

PAYROLL

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT: F.P.L. DATE: 1-13-12 WED NIGHT JOB #: 21771

JOBSITE NAME: EW-1 JOBSITE LOCATION: T.P.

PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
Driller	Bosit Gulomov	X	12		12
V.I	VLAD ISHIMOV	X	12		12
A.B	AKMAL BURKHONOV	X	12		12
V.M	VICTOR MOISYEV	X	12		12

EQUIPMENT DEPLOYED TODAY

Description	Unit #	Status

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

DAILY ACCOUNTING OF ACTIVITIES BY ITEM #

Item #	Cost Code	Labor Activity	Hours
1	10000	Short Duration Job	
2	11100	Onsite Mob/Demob	
3	11150	Job Preparation	
4	11200	Safety Meeting	
5	0005	Training - Overhead	
6	0006	Shop - Overhead	
7	0007	Maintenance - Overhead	
8	11250	Training Job Chargeable	
9	11300	Site Clean up	
10	11350	Install Sound Walls	
11	11400	Install Decon Pad	
12	11450	Install Surface Casing	
13	11500	Install Roadway & Drill Pad	
14	12050	Test Hole Drilling	
15	12100	Geophysical Logging & Other Testing	
16	12150	Aquifer Zone Testing	
17	12200	Bio-hole 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	Bore Hole Abandonment/Cement Plugs	
24	13350	Reaming	
25	13400	Under Reaming	
26	13450	Install Casing	
27	13500	Install Screen	
28	13550	Gravel Pack The Well	
29	13600	Install Annular Seal	
30	13650	Water Watching	
31	14050	Well Development Air Lift and Swab	
32	14100	Disposal of Fluids & Cuttings	
33	14150	Furnish & Install Test Pump and Discharge	
34	14200	Development Pumping	
35	14250	Test Pumping	
36	14300	Disinfection and Chlorination	
37	19050	Offsite Activities Mob/Demob	
38	19100	Shop	
39	19150	Administration	
40	19550	Other Activities Standby	
41	19600	Fishing for Lost/Broken Tooling	
42	19650	Change Order Activities	
43	88000	Equipment Repairs	
44	90170	Damages	
45	90200	Job Superintendent	
		BREAK	
		TOTAL HOURS	

MATERIALS USED TODAY

Quantity	Description
	SAFETY MTG:
(1)	T.O.H & T.I.H PACKER;
(2)	CONFINED SPACES;
	TOTEL WEIGHT: (109 K)
	PINCH POINT: HAND SAFETY;
	LOADER SAFETY: PPE: SLIPS, TRIPS,
	FALLS, SAFETY;

TIME OF ACTIVITY BY ITEM #

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

CANRIG ERROR: WAIT ON ORDERS! FIX CANRIG;
START T.O.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: ANNULUS FLUID MOVEMENT STOP AIR DEVELOP/WAITON
ORDERS;

Tech's Signature: 1-13-12 Date | Client's Signature: Date | Foreman's Signature: Date

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 reoccurance 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	

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

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

MHC

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

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

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

MHC

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

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

MHC

Florida Power & Light Company
Turkey Point
Exploratory Well EW-1
Deviation Survey Summary

Pilot Hole			Reamed Hole		
Date	Depth (feet bpl)	Inclination (degrees)	Date	Depth (feet bpl)	Inclination (degrees)
5/13/2011	90	0.2	5/20/2011	90	0.5
5/14/2011	180	0.4	5/24/2011	180	0.4
6/3/2011	270	0.5	6/6/2011	270	0.0
5/29/2011	345	0.3	6/8/2011	360	0.1
5/29/2011	435	0.4	6/9/2011	450	0.2
5/30/2011	524	0.4	6/10/2011	540	0.3
5/30/2011	614	0.0	6/12/2011	630	0.5
5/31/2011	704	0.2	6/14/2011	720	0.4
5/31/2011	794	0.3	6/15/2011	810	0.4
5/31/2011	884	0.3	6/16/2011	900	0.3
6/1/2011	974	0.5	6/18/2011	990	0.4
6/1/2011	1,064	0.5	7/23/2011	1,080	0.1
7/1/2011	1,154	0.6	7/25/2011	1,170	0.4
7/1/2011	1,244	0.3	7/26/2011	1,260	0.5
7/1/2011	1,334	0.4	7/27/2011	1,350	0.2
7/2/2011	1,424	0.4	7/29/2011	1,440	0.3
7/2/2011	1,514	0.5	8/10/2011	1,530	0.5
7/3/2011	1,604	0.5	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

Florida Spectrum Environmental Services, Inc.

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

SUBMISSION # 1201-193

Logged in LIMS by NB

CSM assigned _____

Florida Spectrum Environmental Services, Inc.

CHAIN OF CUSTODY RECORD

☐ 1460 W. McNab Road Ft Laud. FL 33309 Tel: (954) 978-6400 Fax: (954) 978-2233
☐ 630 Indian Street Savannah, GA 31401 Tel: (912) 238-5050 Fax: (912) 234-4815
☐ 528 Gooch Road Fort Meade, FL 33841 Tel: (863) 285-8145 Fax: (863) 285-7030
☐ 610 Parrot Ave. N, Okeechobee, FL 34972 Tel: (863) 763-3336 Fax: (863) 763-1544

Original-Return w/report | Yellow-Lab File Copy | Pink - Sampler Copy

DUE DATE Requested

RUSH RESERVATION #

Rush Surcharges apply

Report to: (company name) LAYNE CHRISTENSEN CO.

Report to Address: 5061 LUCKET RD, FT MYERS, FL 33905

Invoice to: (company name) LAYNE CHRISTENSEN CO

Purchase Order #

Invoice to Address: " " " " "

Project Name and/or Number: TURKEY POINT EXPLORATORY WELL EW-1 - PackerTest PT-9

Site Location: FPL TURKEY POINT, HOMESTEAD, FL

Project Contact: CRAIG BRUGGER

Phone: 239-275-1029 / 239-275-1025

Fax:

Email: CJBRUGGER@LAYNECHRISTENSEN.COM

Sampler Name: (printed)

Affiliation:

Sampler Signature

ORDER # (Lab Control Number; Shaded Areas For Laboratory Use Only)	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-?	Chloride	Sulfate	Sp. Cond.	TDS	Bicarb	Carb	TKN	NH3						Temp °C	pH	Cond	Chlor
1	8168	EW-1-PT-9 (2,058-2,080)	1/8/12	2200	GW	S U							1	1						21.7	7.53	54,000	
2																							
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							

Special Comments:

"I waive NELAC protocol" (sign here) >

Total

Deliverables: QA/QC Report Needed? Yes No (additional charge)

	Signature	Affiliation	Date/Time
1	Relinquished by: Sam H Durell		1/9/2012 11:00
1	Received by: Angelo Pifferrer		1-9-2012 11:05
2	Relinquished by: Angelo Pifferrer		1-9-12 14:50
2	Received by: [signature]		1-9-12 14:50
3	Relinquished by:		
3	Received by:		

Sample Custody & Field Comments

Temp as received 4 C
Custody seals? Y / N
FIELD TIME:
Sampling _____ hrs
Pick-Up _____ hrs
Misc. Charges _____

Bottle Type
A-liter amber
B-Bacteria bag/bottle
F-500 ml O-125 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 TED-Tedlar Air Bag

Additional Bottle Types
B-brown liter plastic

Preservatives
A-ascorbic acid P-H3PO4
C-HCL S-H2SO4
Cu-CuSO4 T-Na2S2O3
H-HNO3 U-Unpreserved
M-MCAB N-NaOH
Z-zinc acetate NH4-NH4CL

Additional Preservatives
Hex-Hex Cr Buffer
EDA-Ethylene Diamine

www.flenviro.com COC Page _____ of _____

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	50 (estimated)	(Terminated due to test interval productivity during conditioning)									
11	2,552 - 2,574	(Terminated due to packers not isolating the test interval)										
12	2,634 - 2,656	(Terminated due to packers not isolating the test interval)										
13	2,844 - 2,866	150 (estimated)	(Terminated due to test interval productivity during conditioning)									
14	2,480 - 2,502	(Terminated due to packers not isolating the test interval)										

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

ALLWEBBS ENTERPRISES INC

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

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

Permanent Datum	GL	Elevation
Log Measured From	GL	
Drilling Measured From	GL	

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

MAIN PASS

ALLWEBBS

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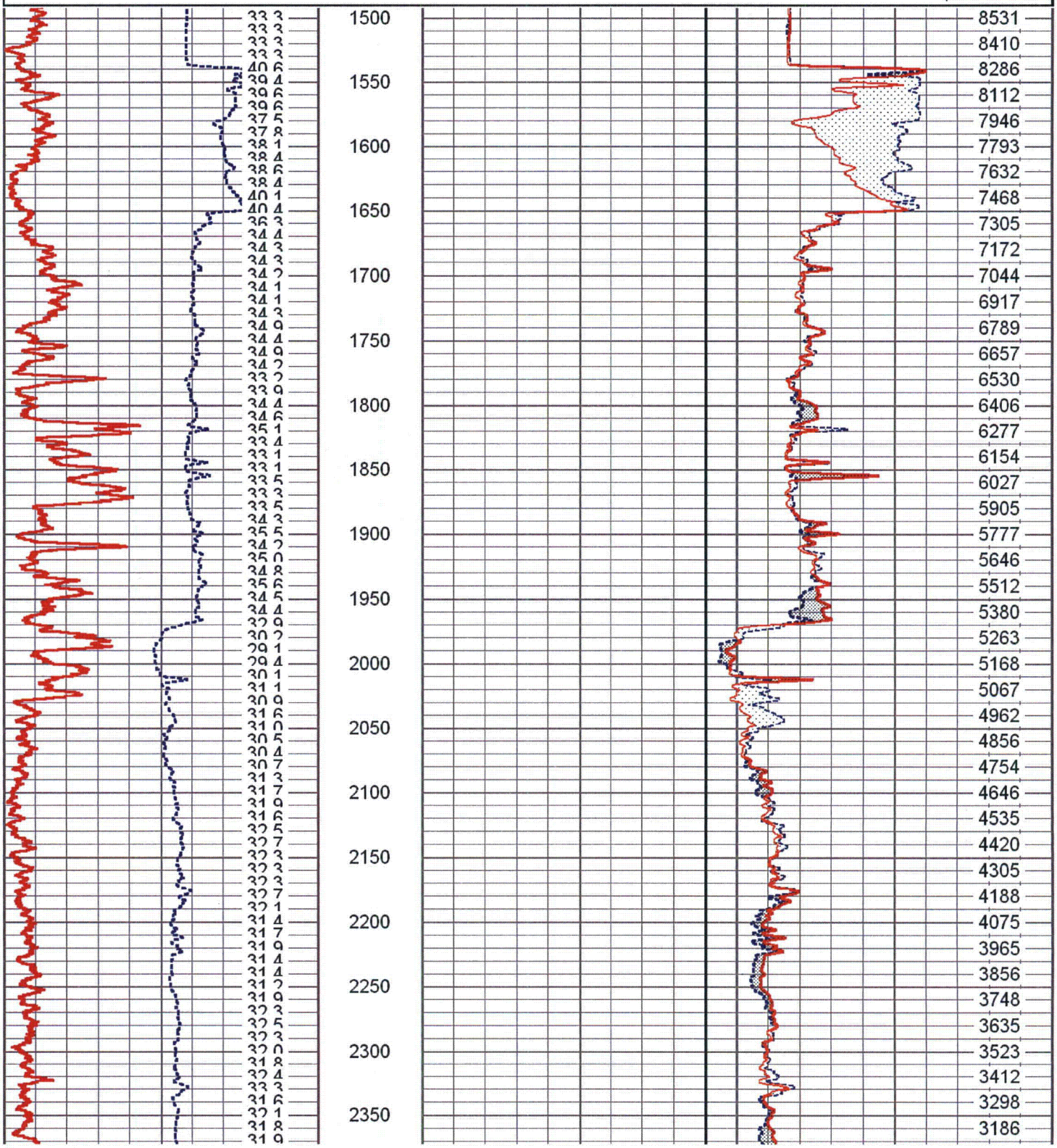

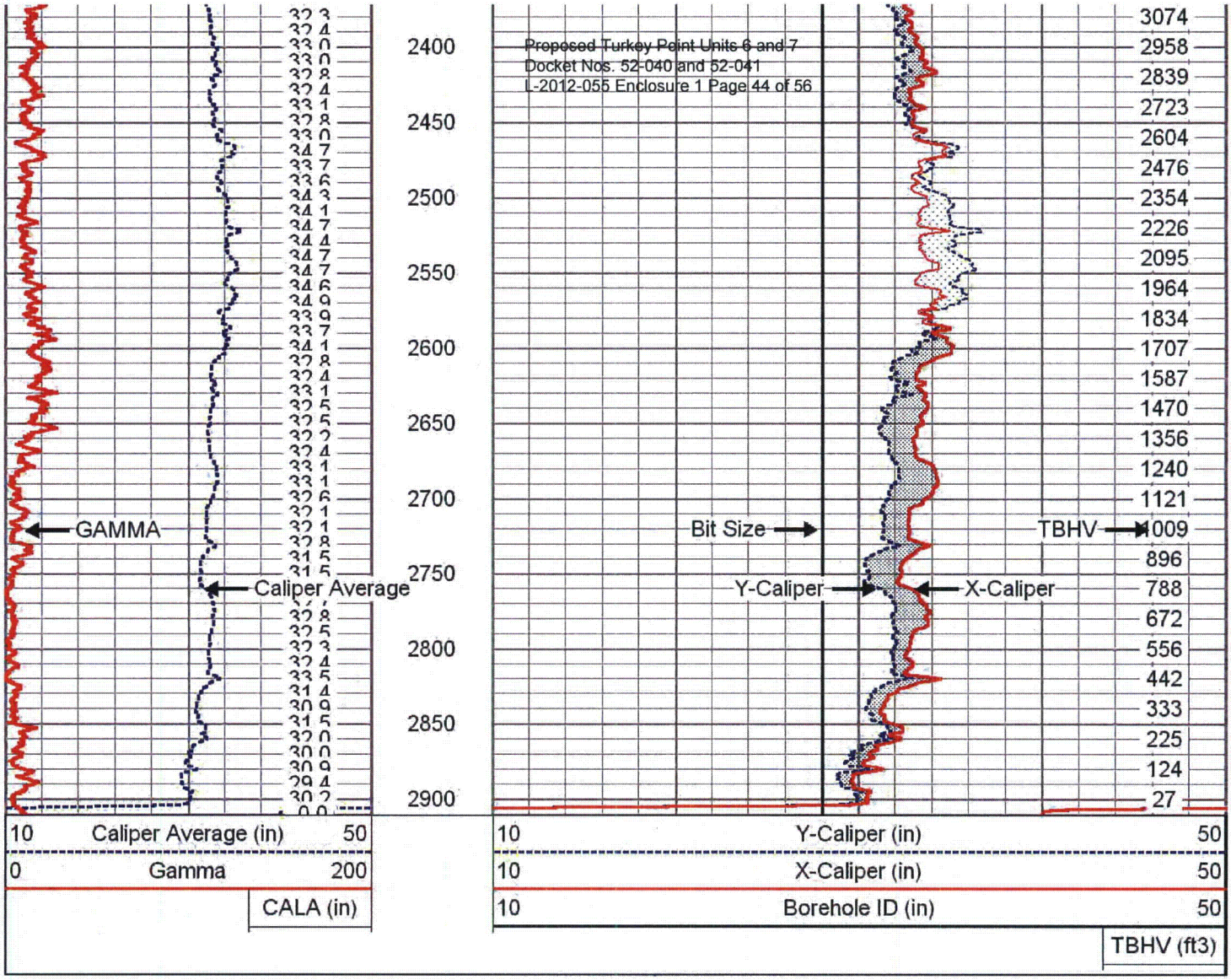

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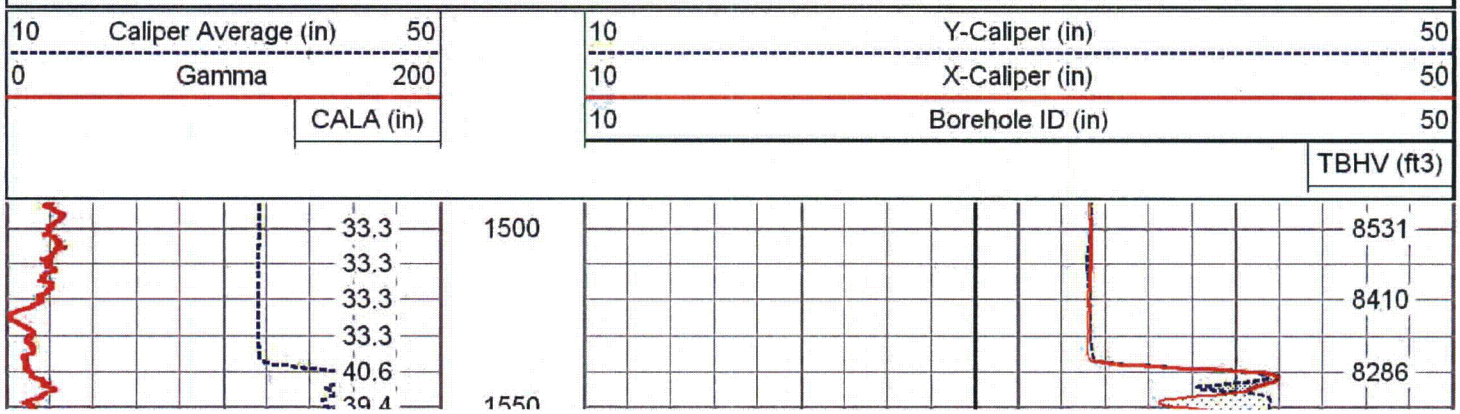

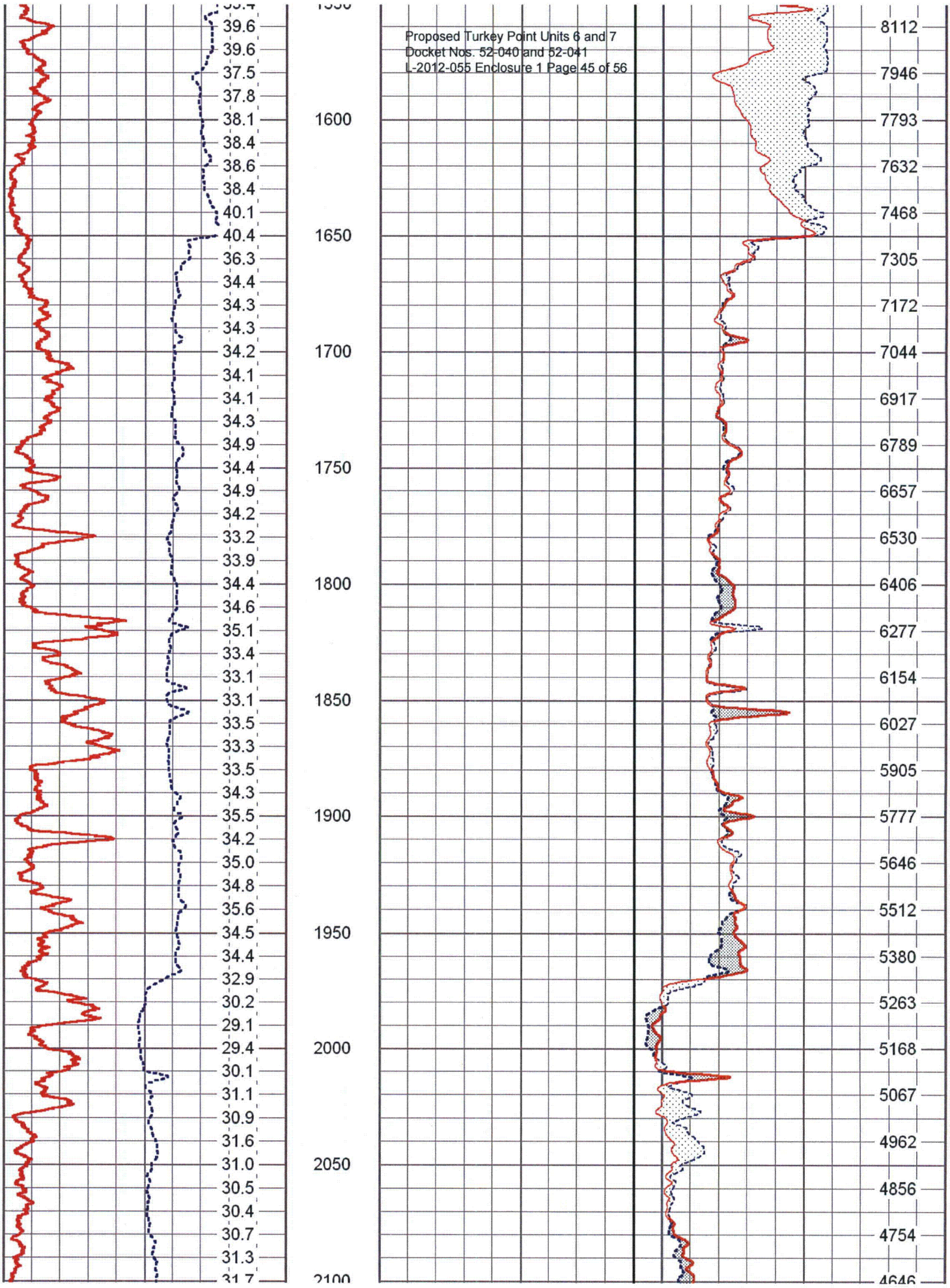
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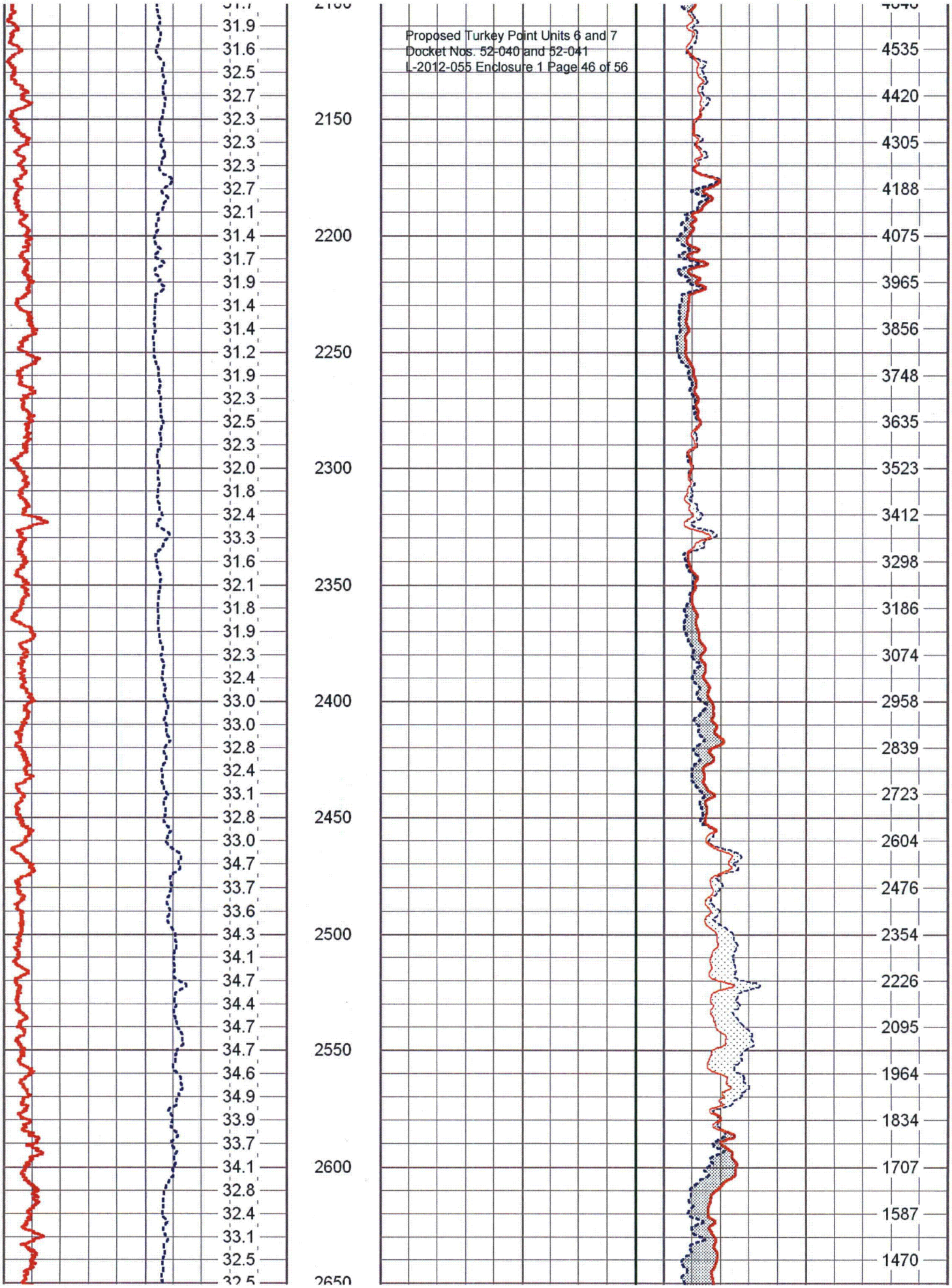
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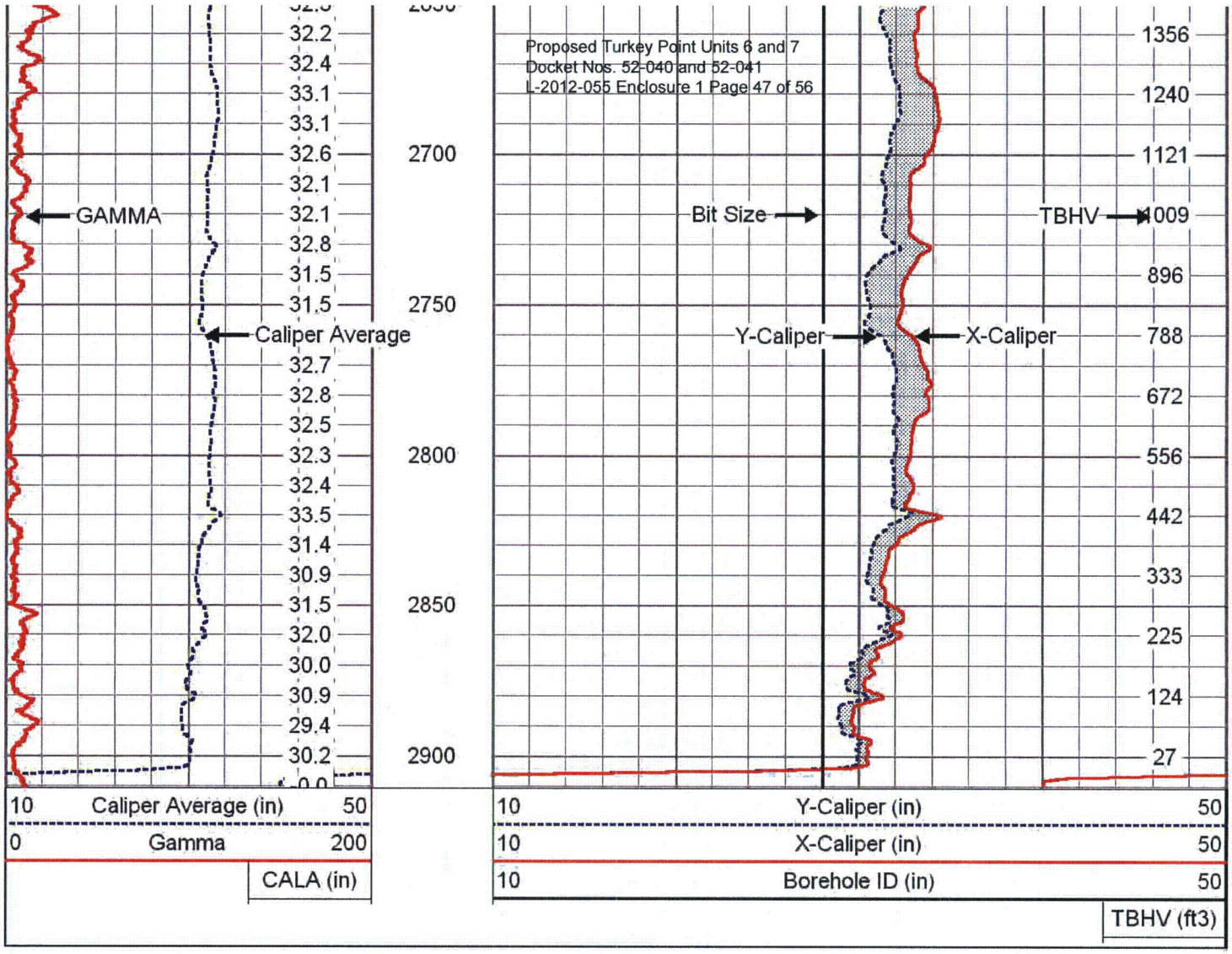

MAIN PASS

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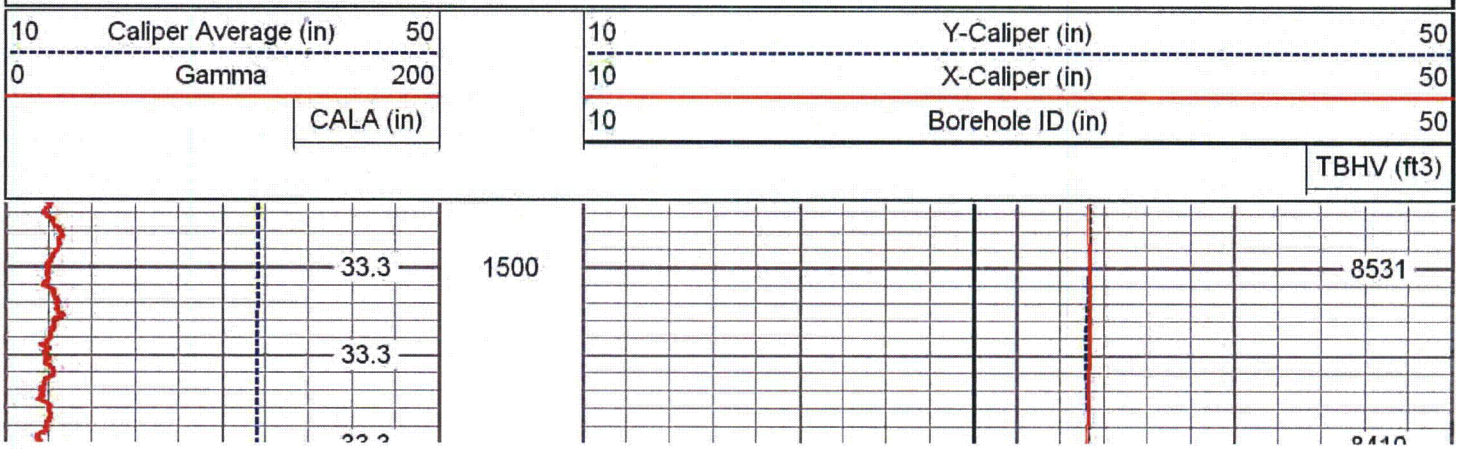

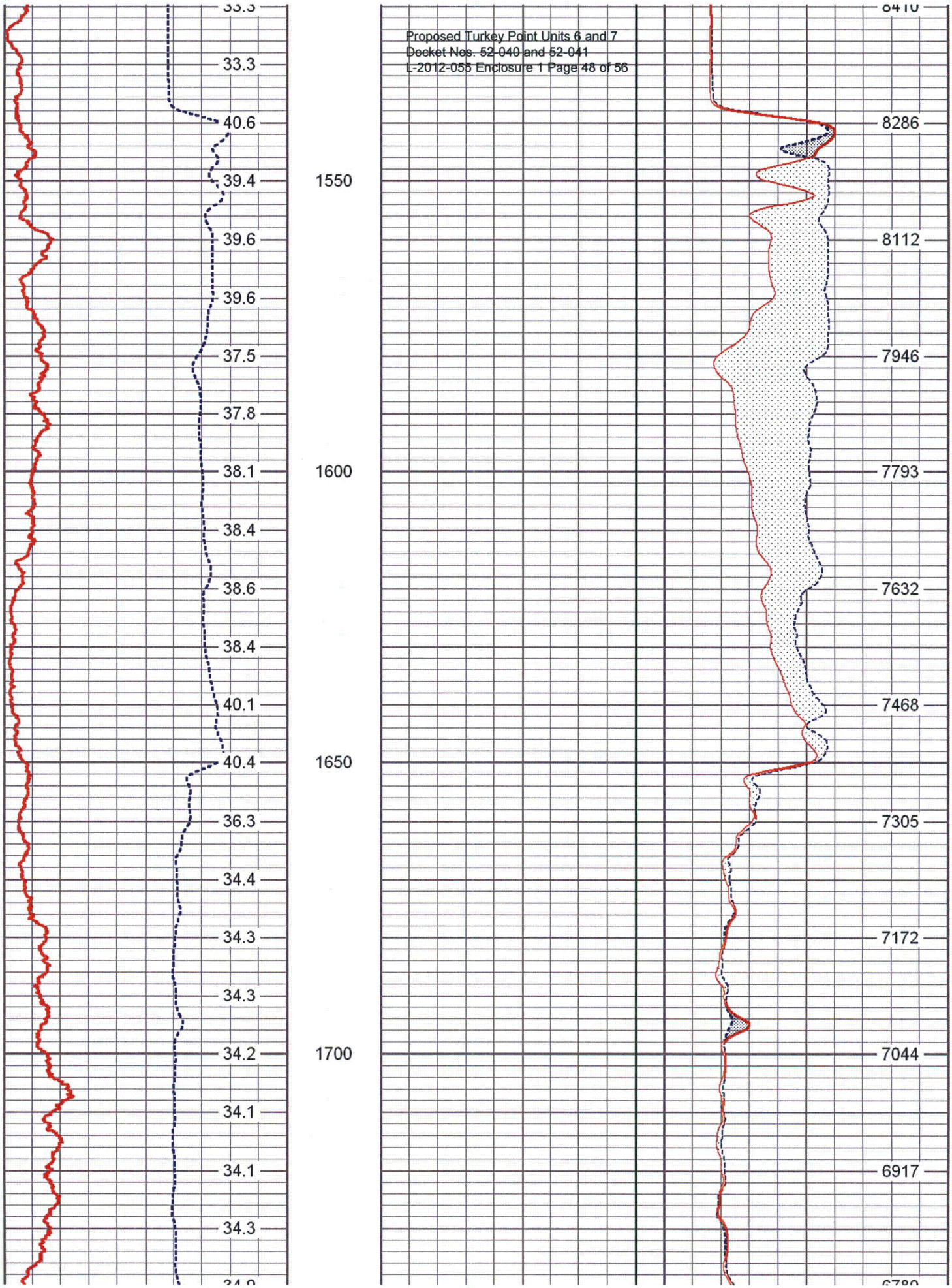
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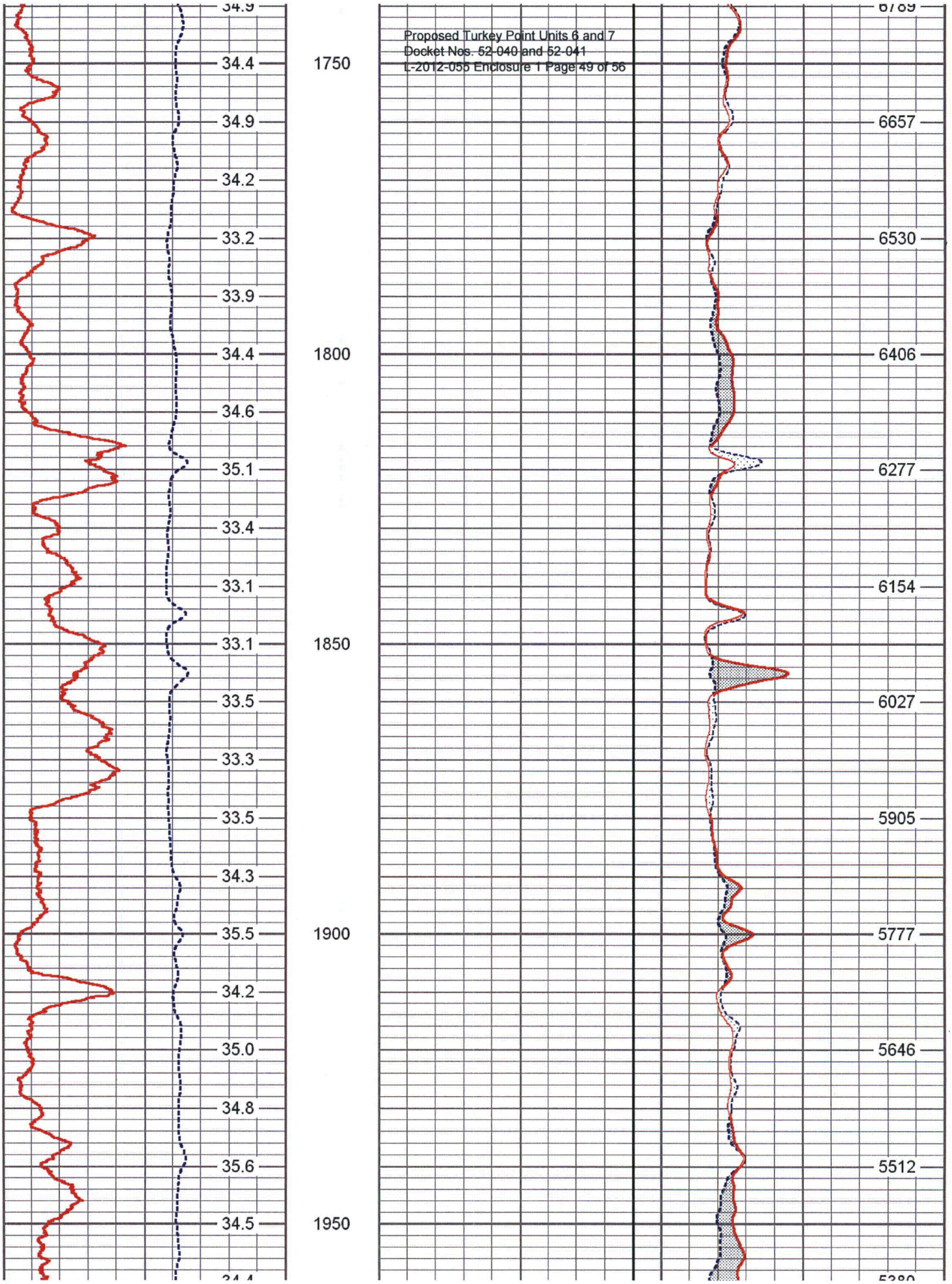
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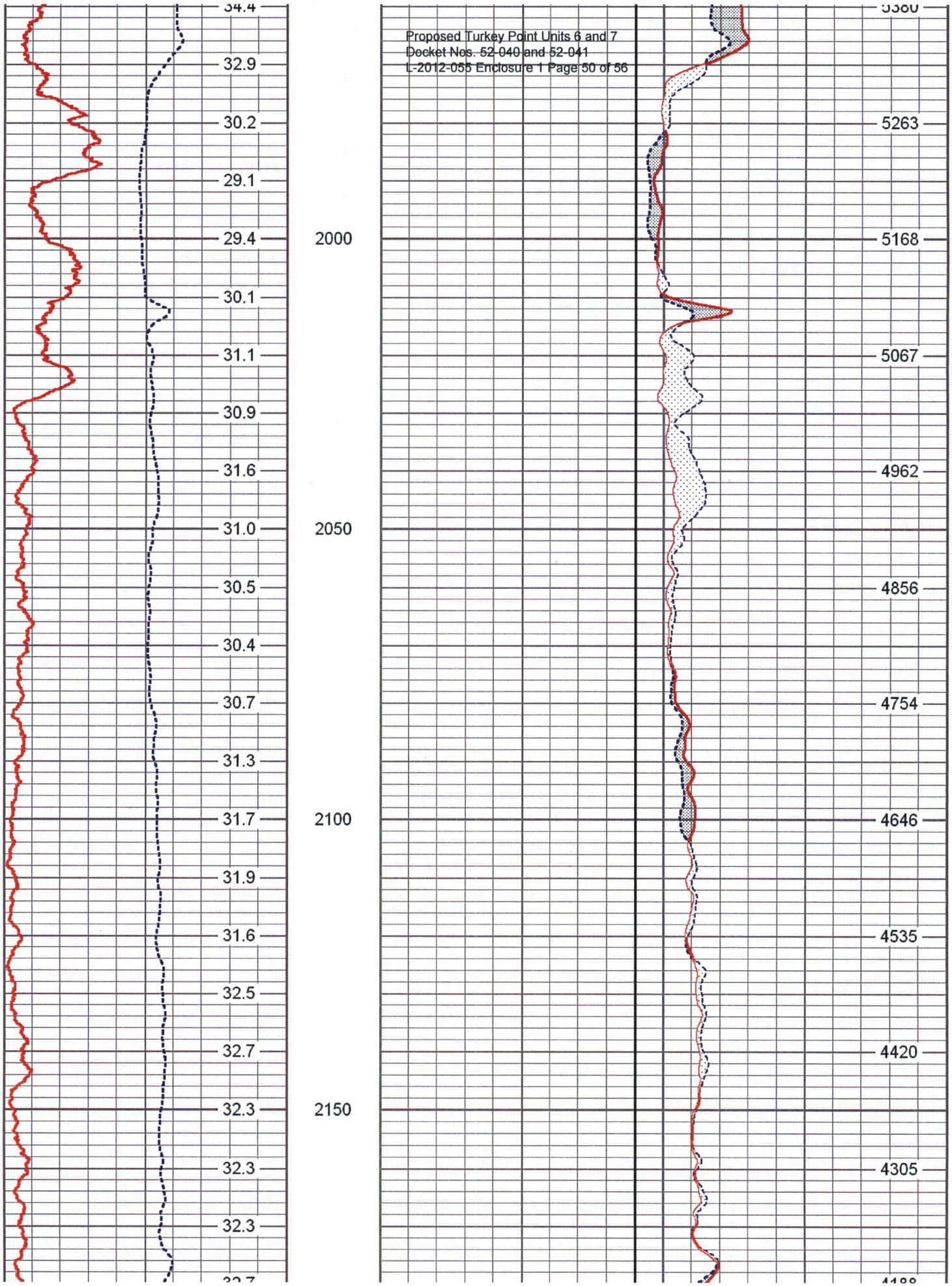
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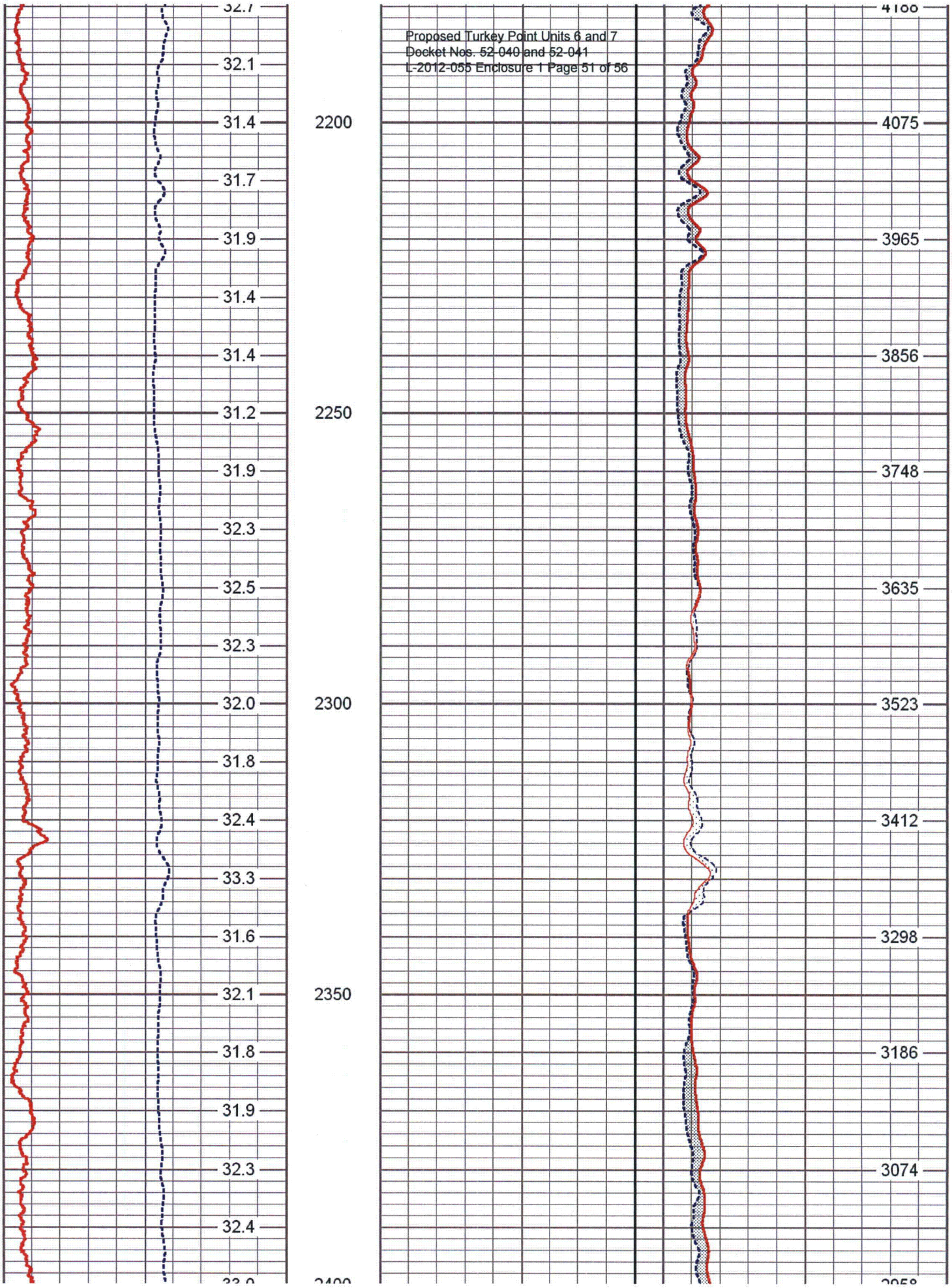
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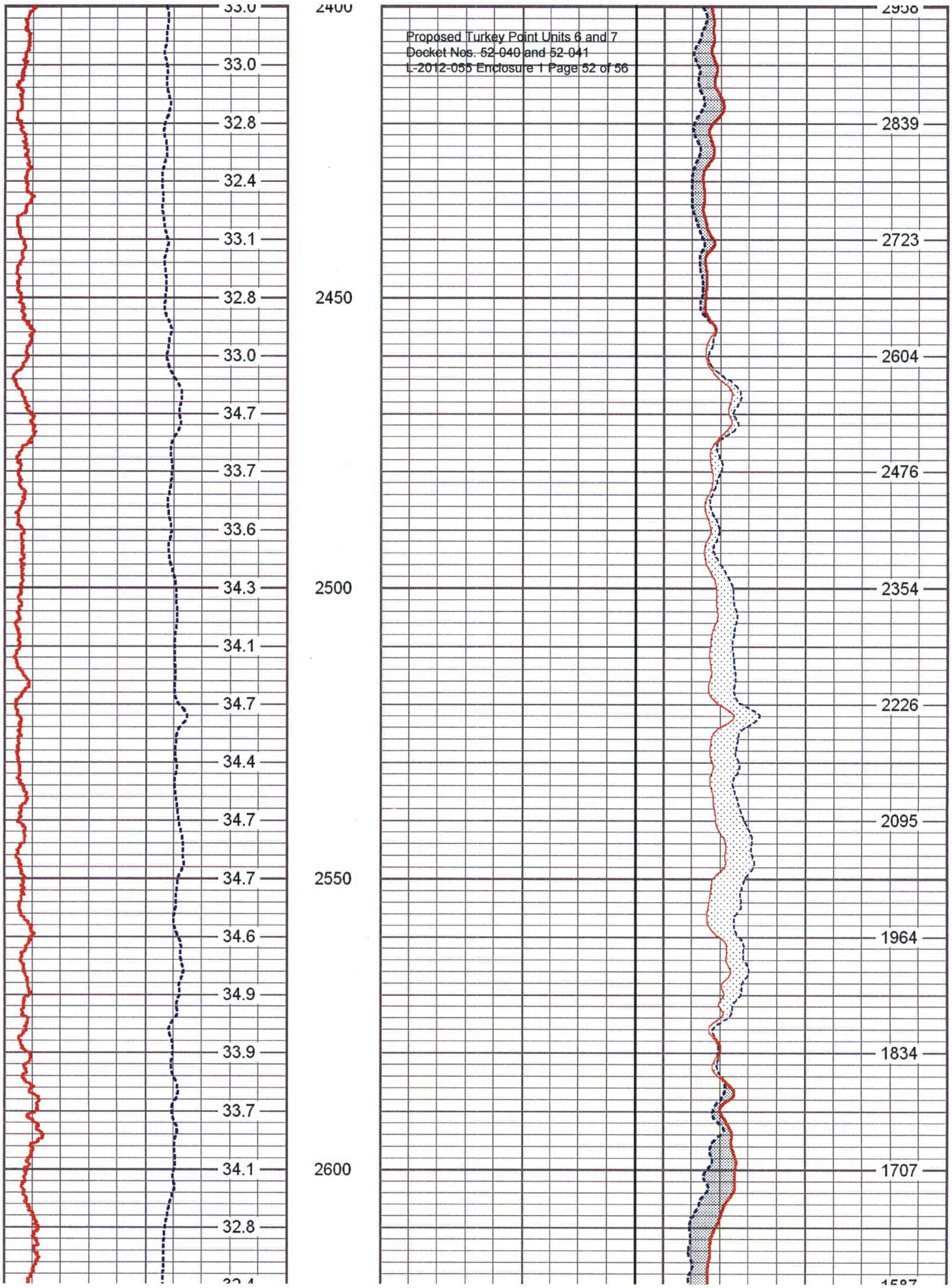
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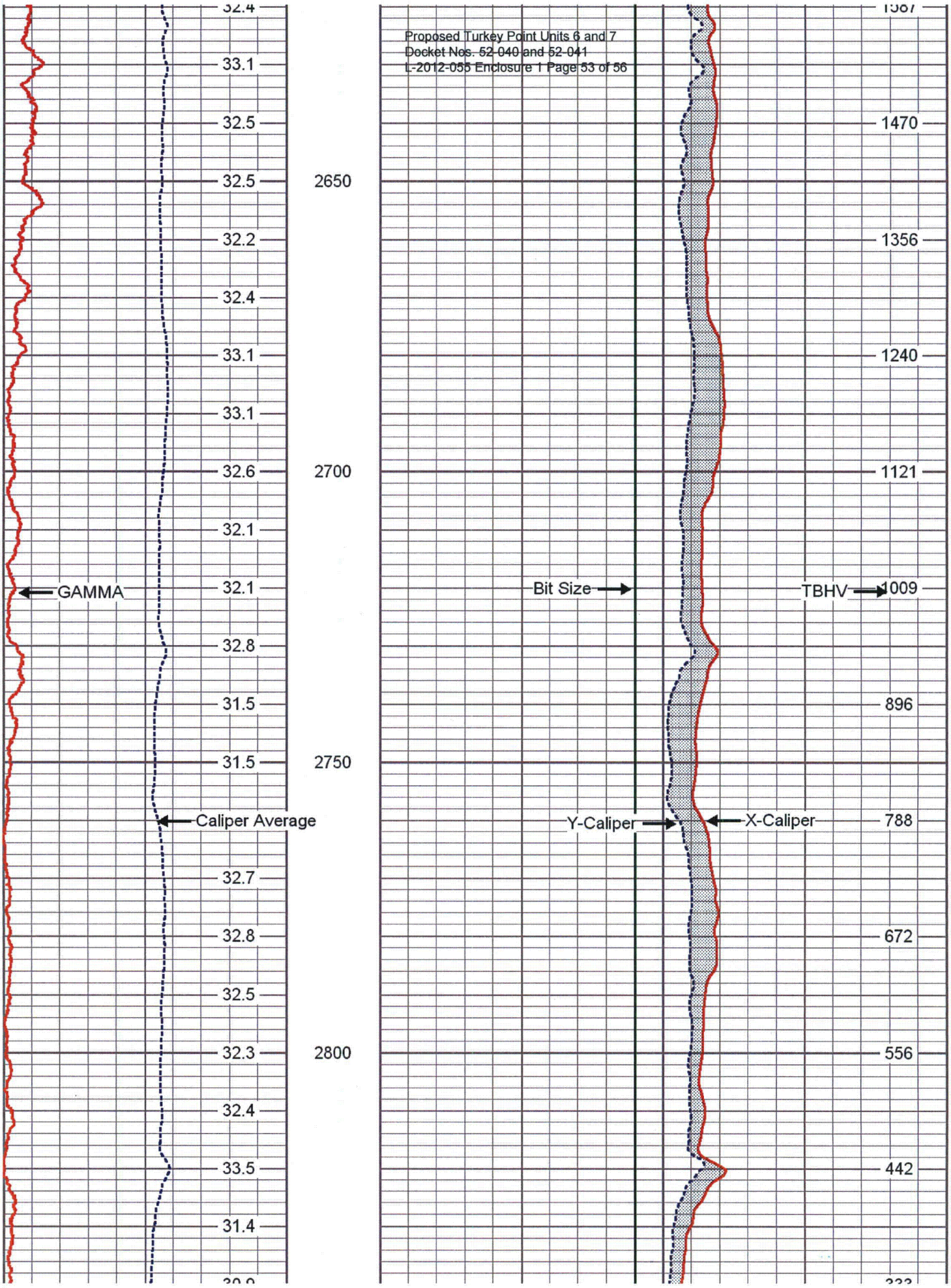
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32.5
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2800
32.4
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X-Caliper
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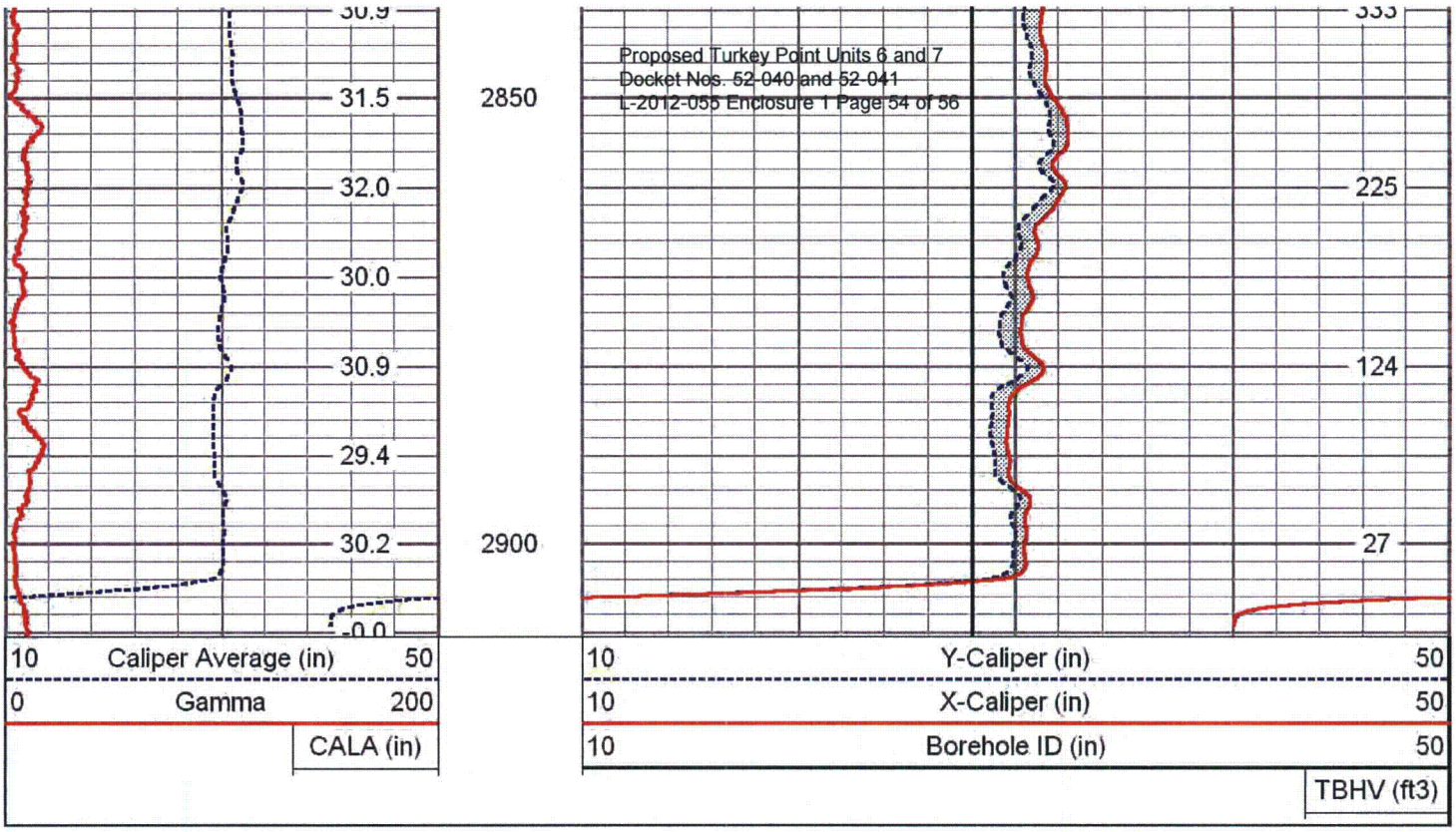

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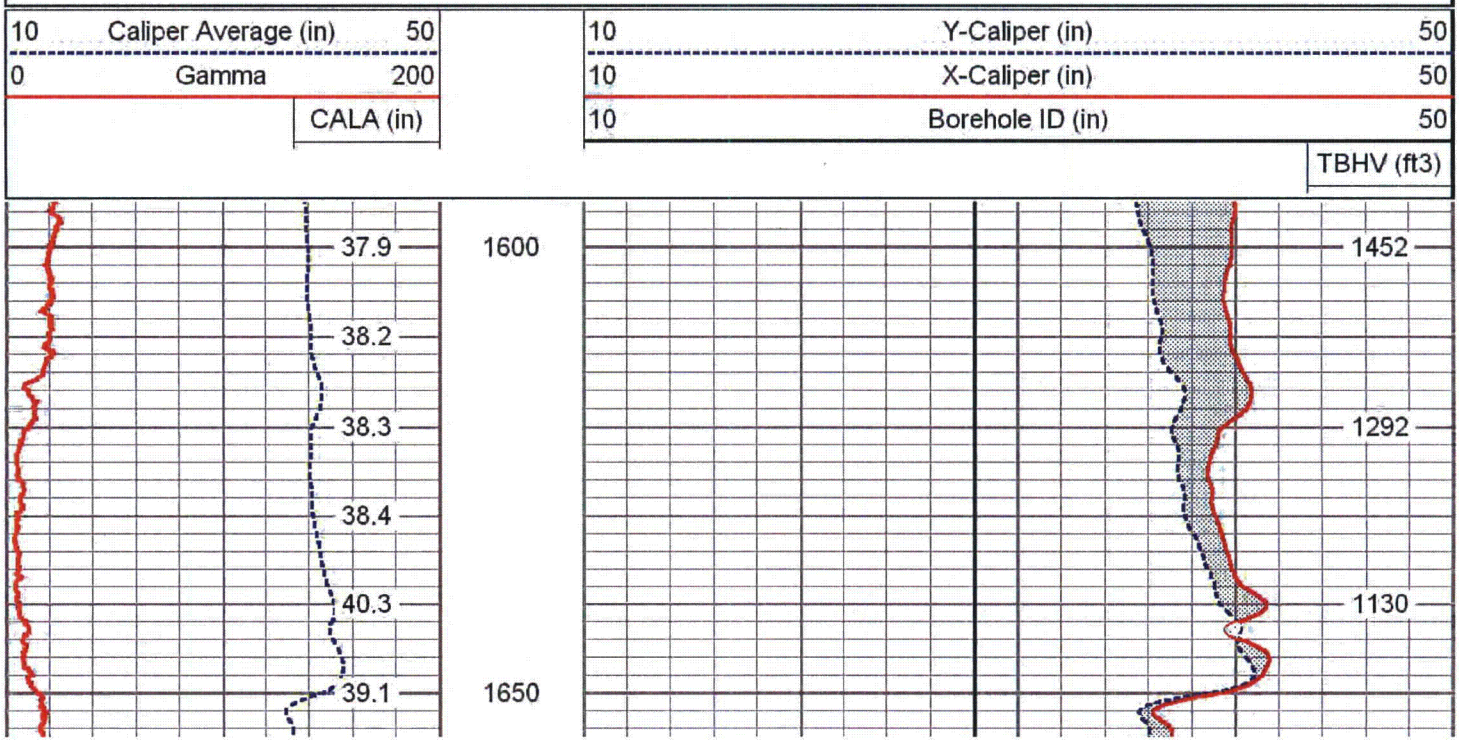

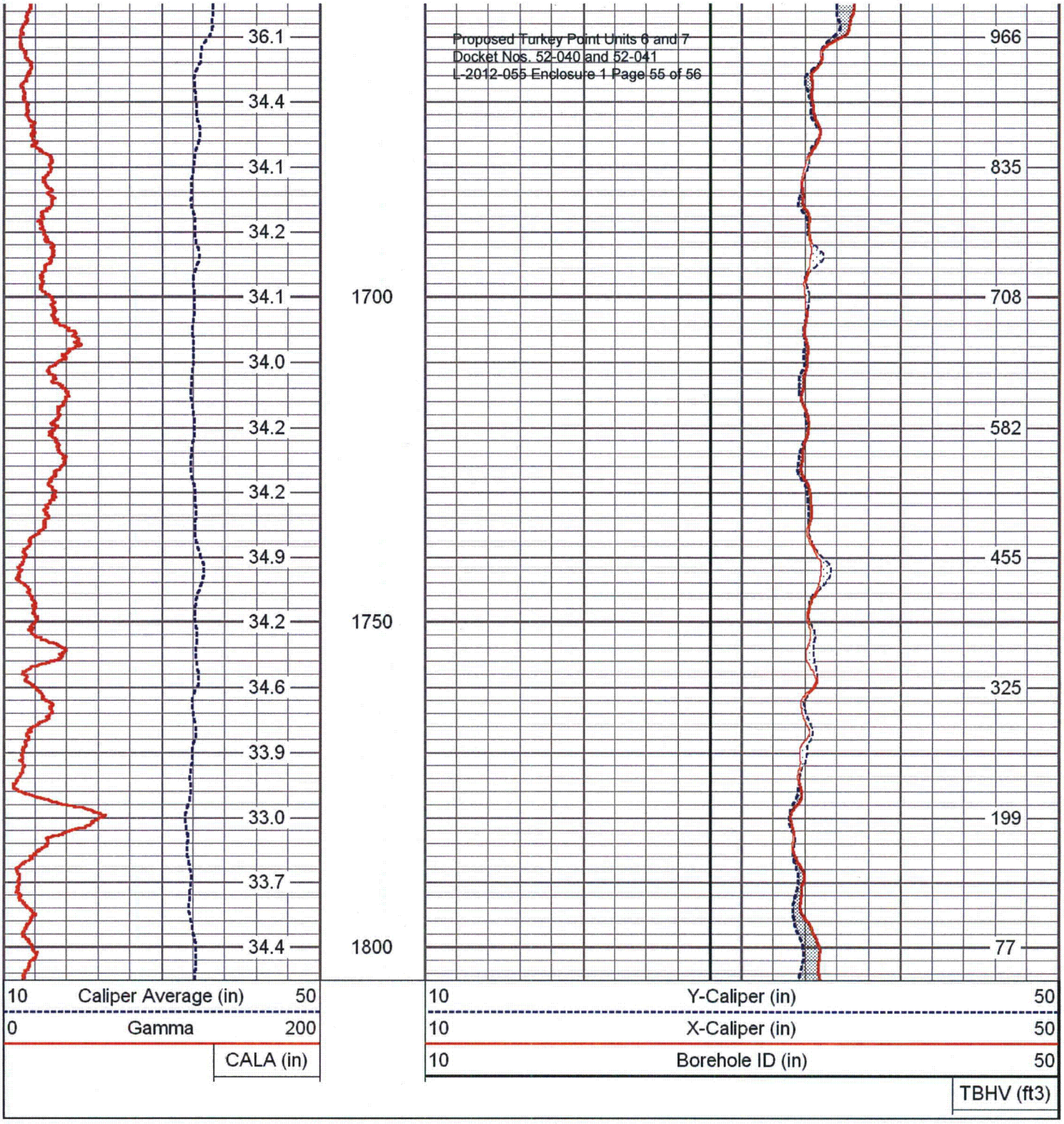

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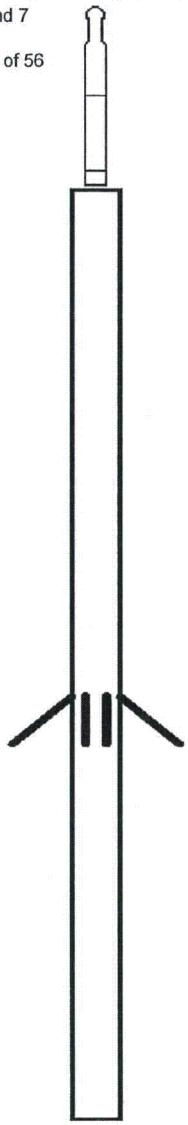
XY Caliper Calibration Report

Serial Number/Model: Probe24-60-Probe24"
Performed: Sun Jan 15 18:03:58 2012

Ring	X Caliper	Y Caliper
1: 10 in	387.784 cps	416.048 cps

1:	10	in	387.784	cps	416.048	cps
2:	20	in	520.552	cps	576.722	cps
3:	30	in	688.426	cps	755.516	cps
4:	33.25	in	770	cps	829	cps
5:	40	in	886.54	cps	947.976	cps
6:		in		cps		cps

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	0.50					
YCAL	0.50					

Dataset:	tpew1.db: field/well/run2/XYCMP
Total Length:	6.17 ft
Total Weight:	104.00 lb
O.D.	3.50 in

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

MHC 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,

McNabb Hydrogeologic Consulting, Inc.

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

MHC McNabb Hydrogeologic Consulting, Inc.

ASRUS, LLC

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.

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.

MHC McNabb Hydrogeologic Consulting, Inc.

ASRUS, LLC

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.

MHC McNabb Hydrogeologic Consulting, Inc.

ASRUS, LLC

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.

MHC McNabb Hydrogeologic Consulting, Inc.

ASRUS.uc

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.

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.

MHC McNabb Hydrogeologic Consulting, Inc.

ASRUS, LLC

Daily Construction Log

Date: January 24, 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: Sunny, Warm
Recorded By: Marty Clasen/Sally Durall
Weather Night: Clear, Cool
Activity: Caliper and Gamma Ray Logging

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.

MHC McNabb Hydrogeologic Consulting, Inc.

ASRUS, LLC

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.

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

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

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CLIENT: FPL
JOBSITE NAME: EW-1
DATE: 1/19/12 THUR. DAY
JOB #: 11771
JOBSITE LOCATION: T.P.

PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
DRILLER	DANNY KEELEY	X	12		12
GH	GEORGE HAGA	X	12		12
AP	ANDREY POPOV	X	12		12

EQUIPMENT DEPLOYED TODAY

Description	Units #	Status

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

DAILY ACCOUNTING OF ACTIVITIES BY ITEM

Item #	Cost Code	Labor Activity	Hours
1	10000	Short Duration Job	
2	11100	Onsite Mob/Demob	
3	11150	Job Preparation	
4	11200	Safety Meeting	
5	0005	Training - Overhead	
6	0006	Shop - Overhead	
7	0007	Maintenance - Overhead	
8	11250	Training - Job Chargeable	
9	11300	Site Clean up	
10	11350	Install Sound Walls	
11	11400	Install Decon Pad	
12	11450	Install Surface Casing	
13	11500	Install Roadway & Drill Pad	
14	12050	Test Hole Drilling	
15	12100	Geophysical Logging & Other Testing	
16	12150	Aquifer Zone Testing	
17	12200	Borehole Abandonment	
18	13050	Production Well Installation	
19	13100	Install Conductor Pipe	
20	13150	Drill Pilot Hole	
21	13200	Geophysical Logging & Other Testing	
22	13250	Aquifer Zone Testing	
23	13300	Borehole Abandonment/Cement Plugs	
24	13350	Reaming	
25	13400	Under Reaming	
26	13450	Install Casing	
27	13500	Install Screen	
28	13550	Gravel Pack The Well	
29	13600	Install Annular Seal	
30	13650	Water Watching	
31	14050	Well Development Air Lift and Swab	
32	14100	Disposal of Fluids & Cuttings	
33	14150	Furnish & Install Test Pump and Discharge	
34	14200	Development Pumping	
35	14250	Test Pumping	
36	14300	Well Injection and Chlorination	
37	18150	Offsite Activities Mob/Demob	
38	19100	Shop	
39	19150	Administration	
40	19550	Other Activities Standby	
41	19600	Fishing for Lost/Broken Tooling	
42	19650	Change Order Activities	
43	88000	Equipment Repairs	
44	90170	Damages	
45	90200	Job Superintendent	
		Lunch	
		TOTAL HOURS	

MATERIALS USED TODAY

Quantity	Description
	SAFETY MEETINGS:
	#1 HEALTHY NUTRITION
	#2 SAFE TRAVELING
	PPE, PINCH POINTS, LOADER SAFETY,
	TRIPPING PACKER.

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	

COMMENTS EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

TRIP INTO THE PACKER → INFLATED PACKER → TESTED PACKER IN CASING WITH RECORDED PACKER TEST → FLUID MOVEMENT IN THE ANNULUS → T.O.O.H. TO CHECK THE PACKER.

Driller's Signature: 1/19/12 Date

Client's Signature

PAYROLL

Superintendent Signature: Date

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

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CLIENT: E.P.L

JOBSITE NAME: EW-1

DATE: 1-19-12 TIME NIGHT

JOB #: 91771

POWER LOCATION: TP

PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
Driller	BOSIT GULOMOV	X	12		12
V.T	VLAD ISHIMOV	X	12		12
V.M	VICTOR MOISHEV	X	12		12
A.B	ALMAT BURKHONOV	X	12		12

EQUIPMENT EXPLOITED TODAY

Description	Unit #	Status

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

DAILY ACCOUNTING OF ACTIVITIES BY ITEM

Item #	Cost Code	Labor Activity	Hours
1	10000	Short Duration Job	
2	11200	Onsite Mob/Demob	
3	11150	Job Preparation	
4	11200	Safety Meeting	
5	0005	Training - Overhead	
6	0006	Shop - Overhead	
7	0007	Maintenance Overhead	
8	11250	Training - Job Chargeable	
9	11300	Site Clean up	
10	11350	Install Sound Walls	
11	11400	Install Decon Pad	
12	11450	Install Surface Casing	
13	11500	Install Roadway & Drill Pad	
14	12050	Test Hole Drilling	
15	12100	Geophysical Logging & Other Testing	
16	12150	Aquifer Zone Testing	
17	12200	Borehole Abandonment	
18	13050	Production Well Installation	
19	13100	Install Conductor Pipe	
20	13150	Drill Pilot Hole	
21	13200	Geophysical Logging & Other Testing	
22	13250	Aquifer Zone Testing	
23	13300	Borehole Abandonment/Cement Plugs	
24	13350	Reaming	
25	13400	Under Reaming	
26	13450	Install Casing	
27	13500	Install Screen	
28	13550	Gravel Pack the Well	
29	13600	Install Annular Seal	
30	13650	Water Washing	
31	14050	Well Development Air Lift and Swab	
32	14100	Disposal of Fluids & Cuttings	
33	14150	Furnish & Install Test Pump and Discharge	
34	14200	Development Pumping	
35	14250	Test Pumping	
36	14300	Disinfection and Chlorination	
37	19050	Offsite Activities Mob/Demob	
38	19100	Shop	
39	19150	Administration	
40	19550	Other Activities Standby	
41	19600	Fishing for Lost/Broken Tooling	
42	19650	Change Order Activities	
43	19300	Equipment Repairs	
44	90170	Damages	
45	90200	Job Superintendent	
		Lunch	
		TOTAL HOURS	

MATERIALS USED TODAY

Quantity	Description
	SAFETY MTG!
1	PPE!
2	H.I.R.A.
	PINCH POINT. HAND SAFETY!
	LOADER SAFETY! FALLS, SLIP, TRIPS —
	SAFETY!

TIME OF ACTIVITY BY ITEM

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

TIH PACKER! TESTED PACKER IN CASING! BOTTOM PACKER GOOD! TOP PACKER REPAIR! WAIT ON ORDERS! HOUSEKEEPING! CLEAN UP FLOOR!

Driller's Signature: 1-19-12 Date

Client's Signature: PAYROLL Date

Inspector's Signature: Date

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

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CLIENT: FPL
JOBSITE NAME: EW-1
DATE: 1-20-2012 Friday Days
JOB #: 11071
JOBSITE LOCATION: Turkey Point

PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
Drill	Michael A. Ramirez	X	14		14
JN	Juan Nieto	X	12		12
JM	James Mcdonnell	X	12		12
JY	Justin Yeamans	X	12		12

EQUIPMENT DEPLOYED TODAY

Description	Unit #	Status

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

DAILY ACCOUNTING OF ACTIVITIES BY ITEM #

Item #	Cost Code	Labor Activity	Hours
1	10000	Short Duration Job	
2	11100	Onsite Mob/Demob	
3	11150	Job Preparation	
4	11200	Safety Meeting	
5	0005	Training - Overhead	
6	0006	Shop - Overhead	
7	0007	Maintenance - Overhead	
8	11250	Training - Job Chargeable	
9	11300	Site Clean up	
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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 Airlift 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	Testing 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) Personal Physical Hazards
	2) Loader Signals
	PPE, loader safety, sling safety, stop work falls, ladder safety, eyes on path.

TIME OF ACTIVITIES DURING

Item	Hr	Code	Time
		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 - DELAYS - CONDITIONS - CHANGES - OTHER IMPORTANT

Packer Testing. Waiting on Orders. Pressure Test Packer Per Clay. Remove Clamps & Sleeves from Packers. Help welder remove Clamp/Sleeve. Load Truck with Sleeves. Prepare Collar/weight BHA for assembly.

M. Ramirez — Employee's Signature — 01-20-12 Date — Client's Signature — DAYWORK — Supervisor's Signature — Date

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT: E.P.L

DATE: 01-20-12 FRI NIGHT

JOB #: 11771

JOBSITE NAME: EW-1

JOBSITE LOCATION: T.P

PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
DRILLER	BOSIL GULIOMOV	X	12		12
V.E	VIAD ISHIMOV	X	12		12
A.B	AKMAL BURKHONOV	X	12		12
V.M	VICTOR MOLSYEV	X	12		12

EQUIPMENT DEPLOYED TODAY

Description	Unit #	Status

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

DAILY ACCOMPLISHED ACTIVITIES BY ITEM #

Item #	Cost Code	Labor Activity	Hours
1	10000	Short Duration Job	
2	11100	Onsite Mob/Demob	
3	11150	Job Preparation	
4	11200	Safety Meeting	
5	0005	Training - Overhead	
6	0006	Shop - Overhead	
7	0007	Maintenance - Overhead	
8	11250	Training - Job Chargeable	
9	11300	Site Clean up	
10	11350	Install Sound Walls	
11	11400	Install Decon Pad	
12	11450	Install Surface Casing	
13	11500	Install Roadway & Drill Pad	
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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	
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25	13400	Under Reaming	
26	13450	Install Casing	
27	13500	Install Screen	
28	13550	Gravel Pack The Well	
29	13600	Install Annular Seal	
30	13650	Water Watching	
31	14050	Well Development Air Lift and Swab	
32	14100	Disposal of Fluids & Cuttings	
33	14150	Furnish & Install Test Pump and Discharge	
34	14200	Development Pumping	
35	14250	Test Pumping	
36	14300	Disinfection and Chlorination	
37	19050	Site Activities Mob/Demob	
38	19100	Shop	
39	19150	Administration	
40	19550	Other Activities Standby	
41	19600	Fishing for Lost/Broken Tooling	
42	19650	Change Order Activities	
43	88000	Equipment Repairs	
44	90170	Damages	
45	90200	Job Superintendent	
		Lunch	
		TOTAL HOURS	

MATERIALS USED TODAY

Quantity	Description
	SAFETY MTG!
1	T.IH 32" BIT + WEIGHT!
2	HAND SIGNALS!
	PPE! H.I.R.A! HAND SAFETY!
	PINCH POINT! HIGH PRESS/INE!
	LOADER SAFETY!

TIME OF ACTIVITY BY ITEM #

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

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

T.I.H 32" BIT AND WEIGHT: TAG @ 1960' BPL.
SERVICE WASHPIPE! START DRILL FROM / - 1960' BPL -
TO - 1988' BPL

Supervisor Signature: RA — Date: 01-20-12

Client's Signature — Date

PAYROLL

Supervisor Signature — Date

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

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CLIENT: FPL
JOBSITE NAME: EW-1
DATE: 1-21-2012 SAT. Days
JOB #: 11971
JOBSITE LOCATION: Turkey Point

PERSONNEL EMPLOYED TODAY

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

EQUIPMENT DEPLOYED TODAY

Description	Unit #	Status

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

DAILY ACCOUNTING OF ACTIVITIES BY ITEM

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

MATERIALS USED TODAY

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

TIME OF ACTIVITY BY ITEM

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

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

Continue drilling 32" bit from 1983' bgl to 2013' bgl
Painted climb assist weight assembly. Scrubbed drill house/& Moped.
Housekeeping, Clean/organize Dog & Change house & Office trailers. Took out & dumped Trash.

Initials/Signature: M. R. Date: 01-21-12
Client's Signature: Date:
Supervisor's Signature: Date:

PAYROLL

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT: E.P.L. DATE: 01-21-12 SAT NIGHT JOB #: 11771

JOBSITE NAME: EW-1 JOBSITE LOCATION: T.D.

PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
Driller	BOSIT GULOMOV	X	12		12
V.I.	VLAD ISHIMOV	X	12		12
V.M.	VICTOR MOISYEV	X	12		12
A.B.	ALMAI BURKHONOV	X	12		12

EQUIPMENT DEPLOYED TODAY

Description	Unit #	Status

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

UNIT NOMENCLATURE OF ACTIVITIES BY ITEM #

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

MATERIALS USED TODAY

Quantity	Description
	SAFETY MTG:
1	HOUSEKEEPING:
2	IONIZING RADIATIONS:
	HAND SAFETY: PINCH POINT:
	HIGH PRESS LINE: LOADER SAFETY:
	PPE: H.I.R.A.

TIME OF ACTIVITY BY ITEM #

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

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:

Driller Signature: 01-21-12 Date

Client Representative: PAYROLL Date

Supervisor Signature: Date

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT FPL

JOBSITE NAME EW1

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DATE 1/22/2012
SUN DAY

JOB# 11791

JOBSITE LOCATION Turkey Point

PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
Drill MR	Michael A Ramirez	X	12		12
J.N.	Juan Nieto	X	12		12
J.M.	James Mcdonnell	X	12		12

EQUIPMENT DEPLOYED TODAY

Description	Unit #	Status

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

DAILY ACCOUNTING OF ACTIVITIES BY ITEM #

Item #	Cost Code	Labor Activity	Hours
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	Shop - Overhaul	
[illegible]	[illegible]	Maintenance - [illegible]	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible] Logging & Other Testing	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	Geophysical Logging & Other Testing	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	Gravel Pack [illegible]	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	Well Development Air Lift and Swab	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible] & Install Test Pump and Discharge	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	Test Pumping	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible] Supervision	
		Total	
		TOTAL HOURS	

[illegible]

[illegible]	Description
	Safety Meetings
1)	vehicle safety
2)	preventive Maintenance
	Pinch points, Loader safety, wildlife, eyes on Path,
	PPE, electrical safety, High pressure hoses,

[illegible]

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

COMMENTS - [illegible] - CONDITIONS - [illegible]

2098'

Run Survey @ 2010' hol [illegible] 0.5° Make connection. ~~2090'~~
Continue drilling with 32" ~~[illegible]~~ bit from 2058 bpl to ~~2090'~~ 5pl
Loader training, Housekeeping, tightened filter on survey tool, Worked on
loader hose leak, Rig up climb assist weight.

Driller's Signature — Date

Client's Signature — Date

PAYROLL

Supervisor's Signature — Date

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

Proposed Turkey Point Units 6 and 7
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CLIENT FPL
JOBSITE NAME EW - 1
DATE 01-22-12
SUN NIGHT
JOB # 11771
DRILL LOCATION T. P.

PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
Driller	Bosi + Gulomov	X	12		12
G.H	GEORGE HAGA	X	12		12
A.D	ANDREY POPOV	X	12		12
J.Y	JUSTIN YEOMANS.	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

MATERIALS USED TODAY

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

TIME OF ACTIVITY BY ITEM #

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

DAILY ACCOUNTING OF ACTIVITIES BY ITEM #

Item #	Cost Code	Labor Activity	Hours
1	11000	Mobilization Etc.	
2	11100	[illegible]	
3	11120	Job Preparation	
4	11130	Safety Meeting	
5	[illegible]	[illegible] - Overhead	
6	[illegible]	Shop - Overhead	
7	[illegible]	[illegible] - Overhead	
8	[illegible]	[illegible]	
9	11300	Site Clearing	
10	[illegible]	Install Sound Walls	
11	11401	[illegible]	
12	11450	Install Surface Casing	
13	11500	Install Roadway & Drill Pad	
14	[illegible]	[illegible]	
15	[illegible]	Geophysical Logging & Other Testing	
16	[illegible]	[illegible]	
17	11200	Borehole Abandonment	
18	[illegible]	[illegible]	
19	[illegible]	[illegible]	
20	[illegible]	Drill Pilot Hole	
21	[illegible]	Geophysical Logging & Other Testing	
22	[illegible]	Water Zone Testing	
23	[illegible]	Borehole Abandonment/Cement Plug	
24	[illegible]	Reaming	
25	[illegible]	[illegible]	
26	[illegible]	Install Casing	
27	[illegible]	[illegible]	
28	[illegible]	[illegible]	
29	[illegible]	Install Annular Seal	
30	[illegible]	Water Sampling	
31	[illegible]	Well Development Air Lift and Swab	
32	[illegible]	[illegible]	
33	[illegible]	Furnish & Install Test Pump and Discharge	
34	[illegible]	[illegible]	
35	[illegible]	Test Pumping	
36	[illegible]	Disinfection and Chlorination	
37	[illegible]	[illegible]	
38	[illegible]	Misc	
39	[illegible]	[illegible]	
40	[illegible]	Other Activities - Standby	
41	[illegible]	[illegible]	
42	[illegible]	Change Order Activities	
43	[illegible]	Equipment Repairs	
44	[illegible]	Downtime	
45	[illegible]	Job Demobilization	
		Lunch	
		TOTAL HOURS	

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

Drill 32" BIT! From – 2098' BPL – TO – 2100' BPL.
RUN ~~SER~~ SURVEY @ 2070'. 3. T.O.H 32" BIT +
WEIGHT! T.I.H 28" BIT + ① STABILIZER. Kill
well w/ 4 bags salt

Driller's Signature 01-22-12 Date
Client's Signature Date
PAYROLL
Supervisor's Signature Date

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

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CLIENT: FPL
JOBSITE NAME: EW-1
DATE: 1/23/2012 (Month Day Year)
JOB #: 11071
JOBSITE LOCATION: Turkey Point

PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
Drill MR	Michael A. Ramirez	X	12		12
JN	Juan Nieto	X	12		12
JM	James Mcdonnell	X	12		12
AB	Akmal Burkhanov	X	12		12

EQUIPMENT DEPLOYED TODAY

Description	Unit #	Status

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

MATERIALS USED TODAY

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

TIME OF ACTIVITY BY ITEM

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

DAILY ACCOUNTING OF ACTIVITIES BY ITEM

Item #	Cost Code	Labor Activity	Hours
1	10000	Short Duration Job	
2	11100	Onsite Mob/Demob	
3	11150	Job Preparation	
4	11200	Safety Meeting	
5	0005	Training - Overhead	
6	0006	Shop - Overhead	
7	0007	Maintenance - Overhead	
8	11250	Training - Job Chargeable	
9	11300	Site Clean up	
10	11350	Install Sound Walls	
11	11400	Install Decon Pad	
12	11450	Install Surface Casing	
13	11500	Install Roadway & Drill Pad	
14	12050	Test Hole Drilling	
15	12100	Geophysical Logging & Other Testing	
16	12150	Aquifer Zone Testing	
17	12200	Borehole Abandonment	
18	13050	Production Well Installation	
19	13100	Install Conductor Pipe	
20	13150	Drill Pilot Hole	
21	13200	Geophysical Logging & Other Testing	
22	13250	Aquifer Zone Testing	
23	13300	Borehole Abandonment/Cement Plugs	
24	13350	Reaming	
25	13400	Under Reaming	
26	13450	Install Casing	
27	13500	Install Screen	
28	13550	Gravel Pack The Well	
29	13600	Install Annular Seal	
30	13650	Water Watching	
31	14050	Well Development Air Lift and Swab	
32	14100	Disposal of Fluids & Cuttings	
33	14150	Furnish & Install Test Pump and Discharge	
34	14200	Development Pumping	
35	14250	Test Pumping	
36	14300	Disinfection and Chlorination	
37	19050	Offsite Activities Mob/Demob	
38	19100	Shop	
39	19150	Administration	
40	19350	Other Activities Standby	
41	19600	Fishing for Lost/Broken Tooling	
42	19650	Change Order Activities	
43	80000	Equipment Repairs	
44	90170	Damages	
45	90200	Job Superintendent	
		Lunch	
		TOTAL HOURS	

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

T.I.H. 28" bit & 332 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.

M. Ramirez
Inspector's Signature — Title

Client's Signature — Date

PAYROLL

Ace Faulk 1-24-2012
Foreman's Signature — Date

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

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CLIENT: FPL
JOBSITE NAME: EW-1
DATE: 1/23/12 Mon. Night
JOB #: 11771
JOBSITE LOCATION: T.P.

PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
DRILLER	GEORGE HAGA	X	12		12
J.Y.	JUSTIN YEOMANS	X	12		12
A.P.	ANDREY POPOV	X	12		12

EQUIPMENT EMPLOYED TODAY

Description	Unit #	Status

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

DAILY ACCOUNTING OF ACTIVITIES BY ITEM #

Item #	Cost Code	Labor Activity	Hours
1	10000	Short Duration Job	
2	11100	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	11350	Install Sound Walls	
11	11400	Install Decon Pad	
12	11450	Install Surface Casing	
13	11500	Install Roadway & Drill Pad	
14	11550	Test Hole Drilling	
15	12100	Geophysical Logging & Other Testing	
16	12150	Aquifer Zone Testing	
17	12200	Borehole Abandonment	
18	13050	Production Well Installation	
19	13100	Install Conductor Pipe	
20	13150	Drill Pilot Hole	
21	13200	Geophysical Logging & Other Testing	
22	13250	Aquifer Zone Testing	
23	13300	Borehole Abandonment/Cement Plugs	
24	13350	Reaming	
25	13400	Under Reaming	
26	13450	Install Casing	
27	13500	Install Screen	
28	13550	Gravel Pack The Well	
29	13600	Install Annular Seal	
30	13650	Water Watching	
31	14050	Well Development: Air Lift and Swab	
32	14100	Disposal of Fluids & Cuttings	
33	14150	Furnish & Install Test Pump and Discharge	
34	14200	Development Pumping	
35	14250	Test Pumping	
36	14300	Disinfection and Chlorination	
37	19050	Offsite Activities Mob/Demob	
38	19100	Shop	
39	19150	Administration	
40	19550	Other Activities Standby	
41	19600	Fishing for Lost/Broken Tooling	
42	19650	Change Order Activities	
43	88000	Equipment Repairs	
44	90170	Damages	
45	90200	Job Superintendent	
		Lunch	
		TOTAL HOURS	

MATERIALS USED TODAY

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

TIME OF ACTIVITY BY ITEM #

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

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

Start drilling from 2885 bpl to 2900bpl w/a 28 bit Lose of air pressure while drilling at last 5feet pick up 45 regain air pressure. Start to Chillie up last 10feet until hole is clean pick up 30ft Ream down to T.D. Start to trip out of hole

Installer's Signature 1/23/12 Date

Client's Signature

PAYROLL

Ace Tawle 1-24-2012

Supervisor's Signature Date

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

Proposed Turkey Point Units 6 and 7
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CLIENT: FPL
JOBSITE NAME: EW-1
DATE: 1-24-2012 Tue. Days
JOB #: 11171
JOBSITE LOCATION: Turkey Point

PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
Drill Mr	Michael A. Ramirez	X	12		12
JN	Juan Nieto	X	12		12
JM	James Mcdonnell	X	12		12
A.B.	AKMal Burkhanov	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	Onsite Mob/Demob	
3	11150	Job Preparation	
4	11200	Safety Meeting	
5	0005	Training - Overhead	
6	0006	Shop - Overhead	
7	0007	Maintenance - Overhead	
8	11250	Training - Job Chargeable	
9	11300	Site Clean up	
10	11350	Install Sound Walls	
11	11400	Install Decon Pad	
12	11450	Install Surface Casing	
13	11500	Install Roadway & Drill Pad	
14	12050	Test Hole Drilling	
15	12100	Geophysical Logging & Other Testing	
16	12150	Aquifer Zone Testing	
17	12200	Borehole Abandonment	
18	13050	Production Well Installation	
19	13100	Install Conductor Pipe	
20	13150	Drill Pilot Hole	
21	13200	Geophysical Logging & Other Testing	
22	13250	Aquifer Zone Testing	
23	13300	Borehole Abandonment/Cement Plugs	
24	13350	Reaming	
25	13400	Under Reaming	
26	13450	Install Casing	
27	13500	Install Screen	
28	13550	Gravel Pack The Well	
29	13600	Install Annular Seal	
30	13650	Water Watching	
31	14050	Well Development Air Lift and Swab	
32	14100	Disposal of Fluids & Cuttings	
33	14150	Furnish & Install Test Pump and Discharge	
34	14200	Development Pumping	
35	14250	Test Pumping	
36	14300	Disinfection and Chlorination	
37	19050	Offsite Activities Mob/Demob	
38	19100	Shop	
39	19150	Administration	
40	19550	Other Activities Standby	
41	19600	Fishing for Lost/Broken Tooling	
42	19650	Change Order Activities	
43	88000	Equipment Repairs	
44	90170	Damages	
45	90200	Job Superintendent	
		Lunch	
		TOTAL HOURS	

MATERIALS USED TODAY

Item #	Description
	Safety Meetings
1.	Eye Protection
2.	Using Tongs / Pinch Points
	Lunch/weather-lightning, Slip-trip-fall, PPE, over head dangers, Sun Safety.

TIME OF ACTIVITY BY ITEM

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

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
Loggers.

Technical Signature: M.T. Date:
LCC DSN 082809

Client's Signature: PAYROLL Date:

Supervisor's Signature: Date:

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT: FPL
DATE: 1/24/2012 The Night
JOB #: 11771
JOBSITE NAME: EWI
JOBSITE LOCATION: Turkey Point

PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
	George Haga	X	12		12
AP	Andey Popov	X	12		12
JY	Justin Yeomans	X	12		12

EQUIPMENT DEPLOYED TODAY

Description	Unit #	Status

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

DAILY ACCOUNTING OF ACTIVITIES BY ITEM

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

MATERIALS USED TODAY

Quantity	Description
	Saftey Meeting
	(1) Proper use of tongs
	(2) House Keeping
	Saftey topics
	Hand Saftey, Saftey Mating tongs
	bite, overhead Saftey, slips, trips falls

TIME OF ACTIVITY BY ITEM

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

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

Break XO Sub and 3 foot pup off stabilizer trip out & lay down stablizer. trip in pan stand w/ 8" wheel valve seal in well. Scrub floor and draw works. Clean change house & Refrigerator.

Foreman's Signature: 1/24/12 Date

Client Representative Name

PAYROLL

Superintendent's Signature Date

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT: F.P.L.
DATE: 01-25-2012 WED DAYS
JOB #: 11771
JOBSITE NAME: EW-1
JOBSITE LOCATION: T.P.

PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
DRILLER	BOSIT GULOMOV	X	12		12
V.I.	VLAD ISHIMOV	X	12		12
V.M	VICTOR MOISYEV	X	12		12
A.B.	AKMAL BURKHONOV.	X	12		12

EQUIPMENT SCHEDULED TODAY

Description	Unit #	Status

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

DAILY ACCOUNTING OF ACTIVITIES BY ITEM #

Item #	Cost Code	Labor Activity	Hours
1	10000	Short Duration Job	
2	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 Decon Pad	
12	11450	Install Surface Casing	
13	11500	Install Roadway & Drill Pad	
14	12050	Test Hole Drilling	
15	13100	Geophysical Logging & Other Testing	
16	13150	Aquifer Zone Testing	
17	32200	Borehole Abandonment	
18	33050	Production Well Installation	
19	33100	Install Conductor Pipe	
20	33150	Drill Pilot Hole	
21	33200	Geophysical Logging & Other Testing	
22	33250	Aquifer Zone Testing	
23	33300	Borehole Abandonment/Cement Plugs	
24	33350	Reaming	
25	33400	Under Reaming	
26	33450	Install Casing	
27	33500	Install Screen	
28	33550	Gravel Pack The Well	
29	33600	Install Annular Seal	
30	33650	Water Watching	
31	14050	Well Development Air Lift and Swab	
32	14100	Disposal of Fluids & Cuttings	
33	14150	Furnish & Install Test Pump and Discharge	
34	14200	Development Pumping	
35	14250	Test Pumping	
36	14300	Disinfection and Chlorination	
37	19050	Offsite Activities Mob/Demob	
38	19100	Shop	
39	19150	Administration	
40	19550	Other Activities Standby	
41	19600	Fishing for Lost/Broken Tooling	
42	19650	Change Order Activities	
43	88000	Equipment Repairs	
44	90170	Damages	
45	90200	Job Superintendent	
		Lunch	
		TOTAL HOURS	

MATERIALS USED TODAY

Quantity	Description
	SAFETY MTG:
(1)	EMPLOYEE RESPONSIBILITIES:
(2)	DRILLER/OPERATOR/FORMEM
	ORIENTATION ON RIGS:
(3)	PROTECTING THE HOLE:
	HAND SAFETY: PINCH POINT:
	LOADER SAFETY: PPE: H.I.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	

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

Writing on the orders: Help Ellies - Build Clamps for the packer
Pumped out the slurry pit + Run DUMP TRUCK (4), Housekeeping,
Site clean up. Replaced Rug on the crown.

Foreman Signature: 01-25-12 Date
Client's Signature
PAYROLL
Superintendent Signature: Date

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT: EDL
JOBSITE NAME: EW-1
DATE: 1/25/12 WED. NIGHT
JOB #: 11771
JOBSITE LOCATION: T.P.

PERSONNEL EMPLOYED TODAY

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

EQUIPMENT ON DRILL SITE 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

MATERIALS USED TODAY

Quantity	Description
	SAFETY MEETINGS:
	#1 PROTECTING THE HOLE
	#2 HAND SIGNALS
	PPE, LOADER SAFETY, PINCH POINTS,
	T.I.H. PACKERS

TIME OF ACTIVITY BY ITEM #

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

DAILY ACCOUNTING OF ACTIVITIES BY ITEM #

Item #	Cost Code	Labor Activity	Hours
1	10000	Short Duration Job	
2	11100	Onsite Mob/Demob	
3	11150	Job Preparation	
4	11200	Safety Meeting	
5	0005	Training - Overhead	
6	0006	Shop - Overhead	
7	0007	Maintenance - Overhead	
8	11250	Training - Job Chargeable	
9	11300	Site Clean up	
10	11350	Install Sound Walls	
11	11400	Install Decon Pad	
12	11450	Install Surface Casing	
13	11500	Install Roadway & Drill Pad	
14	12050	Test Hole Drilling	
15	12100	Geophysical Logging & Other Testing	
16	12150	Aquifer Zone Testing	
17	12200	Borehole Abandonment	
18	13050	Production Well Installation	
19	13100	Install Conductor Pipe	
20	13150	Drill Pilot Hole	
21	13200	Geophysical Logging & Other Testing	
22	13250	Aquifer Zone Testing	
23	13300	Borehole Abandonment/Cement Plugs	
24	13350	Reaming	
25	13400	Under Reaming	
26	13450	Install Casing	
27	13500	Install Screen	
28	13550	Gravel Pack The Well	
29	13600	Install Annular Seal	
30	13650	Water Washing	
31	14050	Well Development Air Lift and Swab	
32	14100	Disposal of Fluids & Cuttings	
33	14150	Furnish & Install Test Pump and Discharge	
34	14200	Development Pumping	
35	14250	Test Pumping	
36	14300	Disinfection and Chlorination	
37	19050	Offsite Activities Mob/Demob	
38	19100	Shop	
39	19150	Administration	
40	19200	Other Activities Standby	
41	19500	Fishing for Lost/Broken Tooling	
42	19650	Change Order Activities	
43	88000	Equipment Repairs	
44	90170	[illegible]	
45	90200	Job Superintendent	
		Lunch	
		TOTAL HOURS	

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

Put togther both packer selves and downights
inflate packers to see if selves are holding.
Clean front of rig pad. Sweap & mop Engr tole
and MCC.'S

Driller's Signature: [signature] Date: 1/25/12

Client Representative: PAYROLL

Company Representative: [signature]

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

MHC

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

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

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

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

MHC

EW-1 Pad Monitoring Well Water Quality Data
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 reoccurance 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

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	
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

MHC

Florida Power & Light Company
Turkey Point
Exploratory Well EW-1
Deviation Survey Summary

Pilot Hole			Reamed Hole		
Date	Depth (feet bpl)	Inclination (degrees)	Date	Depth (feet bpl)	Inclination (degrees)
5/13/2011	90	0.2	5/20/2011	90	0.5
5/14/2011	180	0.4	5/24/2011	180	0.4
6/3/2011	270	0.5	6/6/2011	270	0.0
5/29/2011	345	0.3	6/8/2011	360	0.1
5/29/2011	435	0.4	6/9/2011	450	0.2
5/30/2011	524	0.4	6/10/2011	540	0.3
5/30/2011	614	0.0	6/12/2011	630	0.5
5/31/2011	704	0.2	6/14/2011	720	0.4
5/31/2011	794	0.3	6/15/2011	810	0.4
5/31/2011	884	0.3	6/16/2011	900	0.3
6/1/2011	974	0.5	6/18/2011	990	0.4
6/1/2011	1,064	0.5	7/23/2011	1,080	0.1
7/1/2011	1,154	0.6	7/25/2011	1,170	0.4
7/1/2011	1,244	0.3	7/26/2011	1,260	0.5
7/1/2011	1,334	0.4	7/27/2011	1,350	0.2
7/2/2011	1,424	0.4	7/29/2011	1,440	0.3
7/2/2011	1,514	0.5	8/10/2011	1,530	0.5
7/3/2011	1,604	0.5	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

MV Geophysical

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 *

<< Fold Here >>

Comments

MAXIMUM Caliper Arm Extensions: 51"

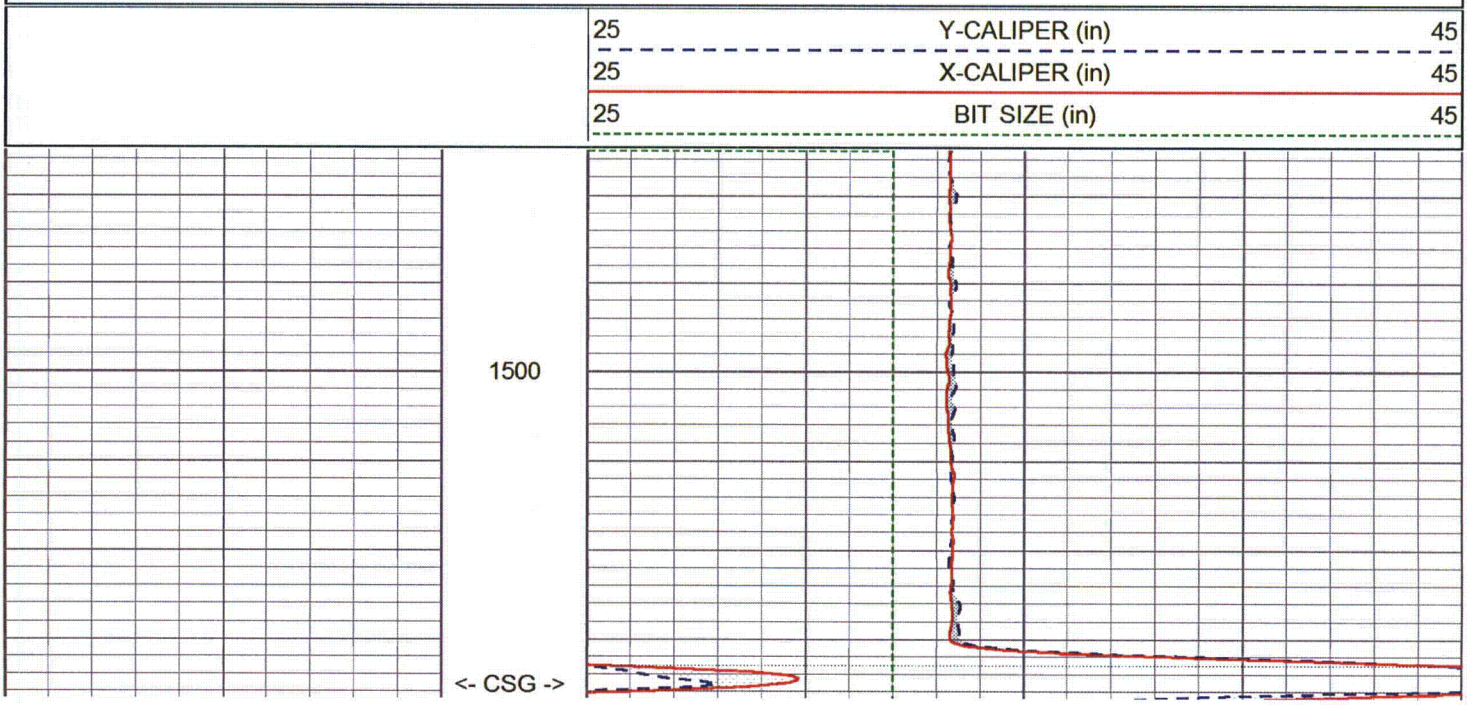
BOREHOLE RECORD

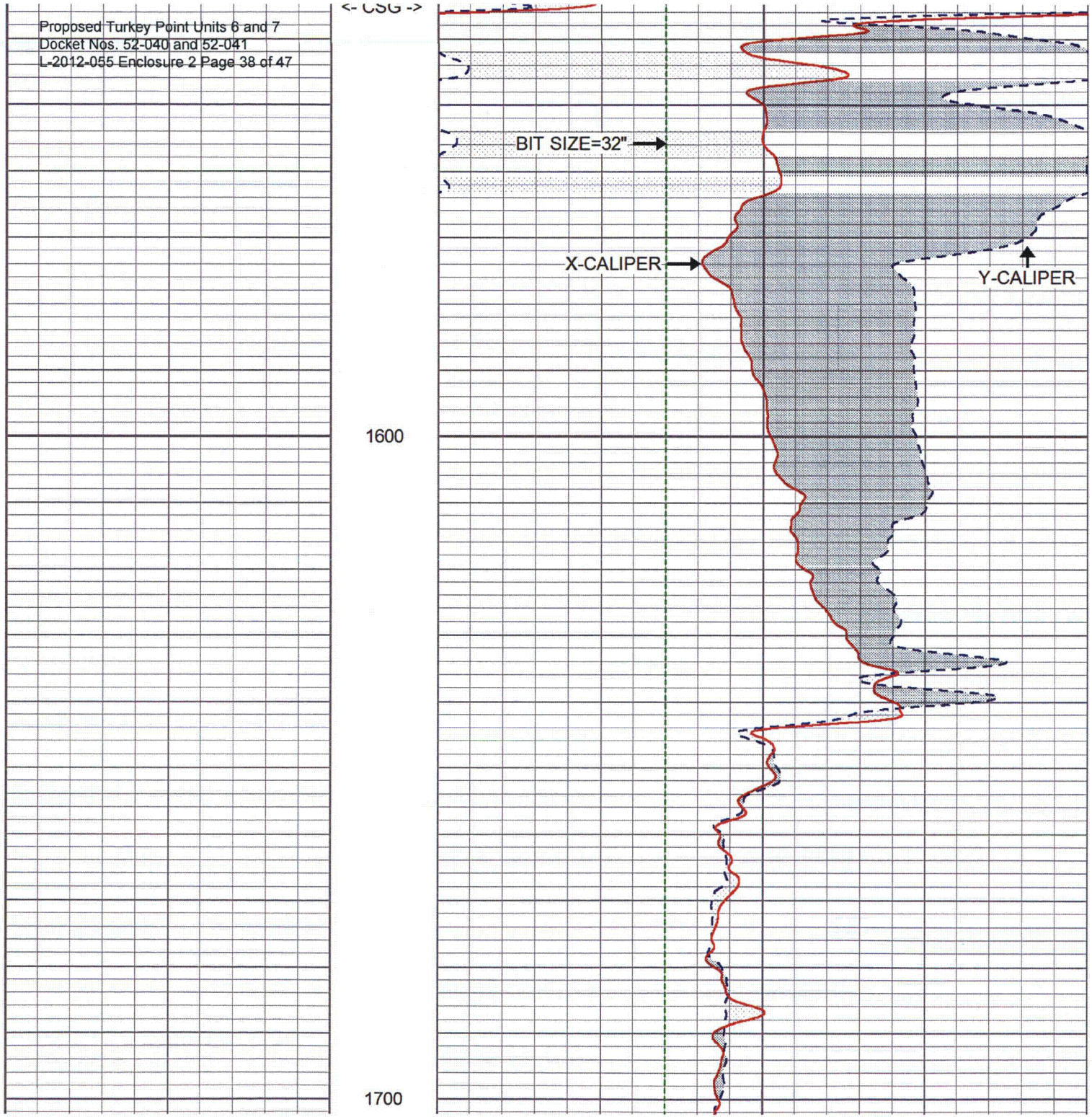
RUN	SIZE	FROM	TO
NINE	28"	2100'	2900'

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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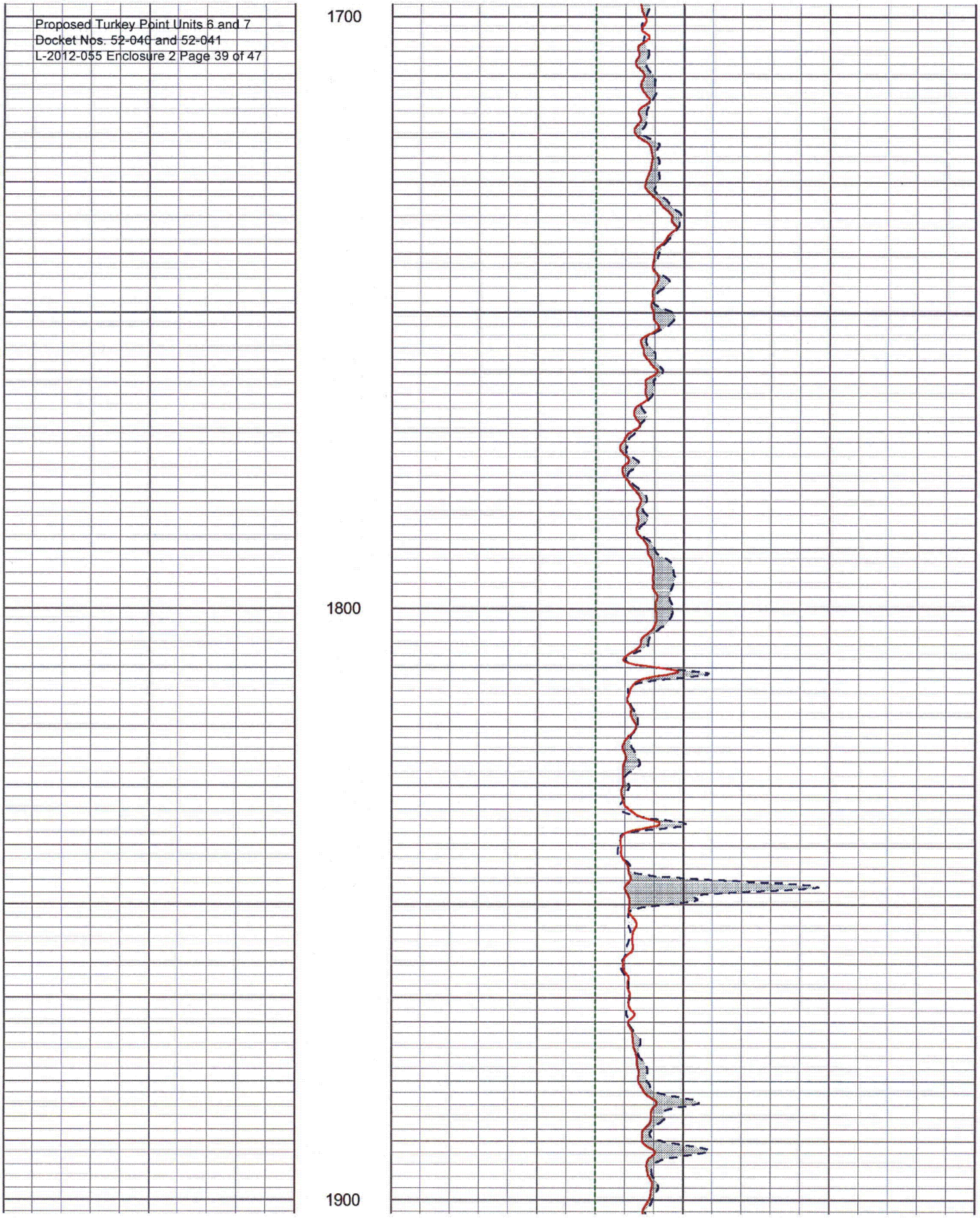
Y-CALIPER
1600
1700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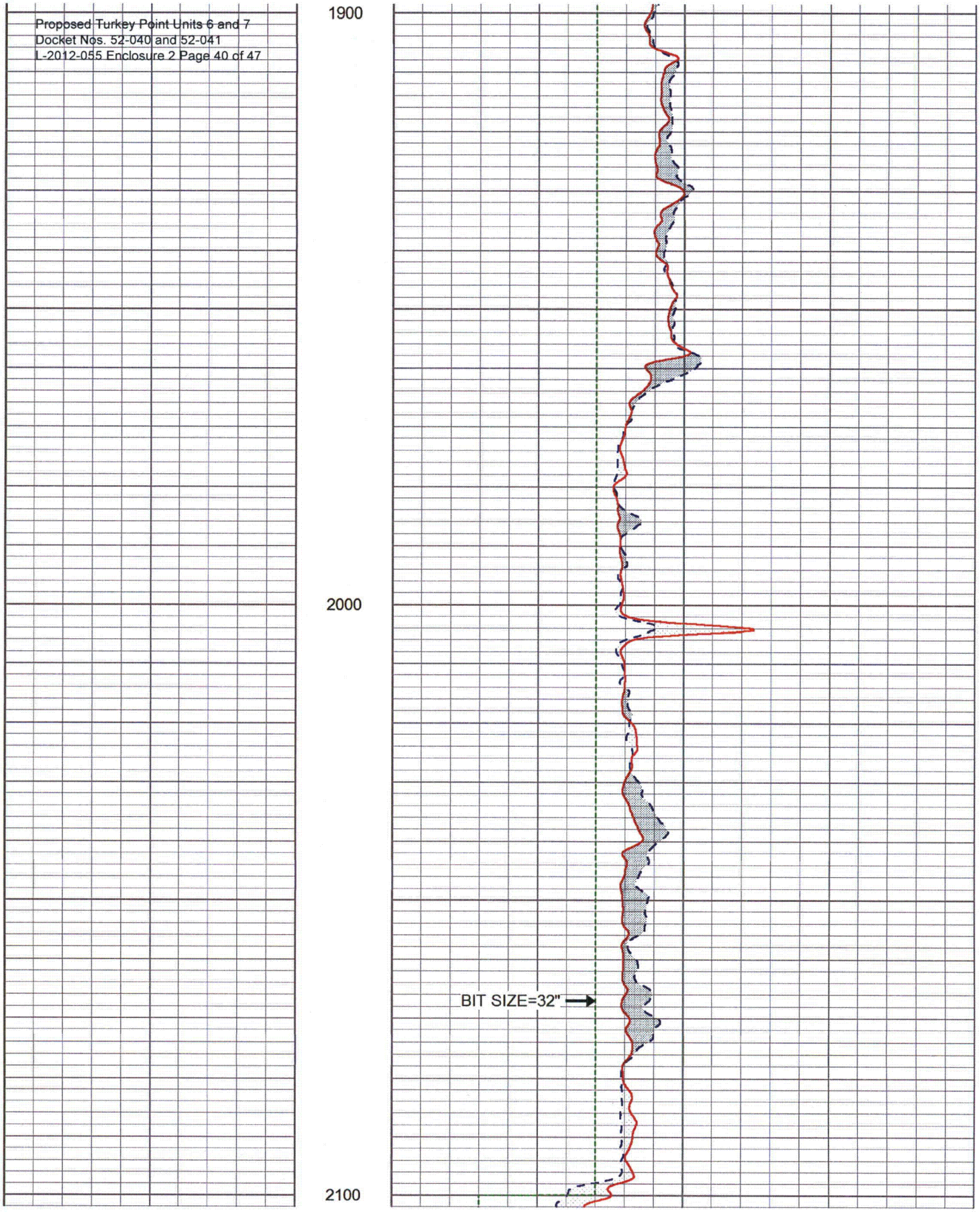
1800
1900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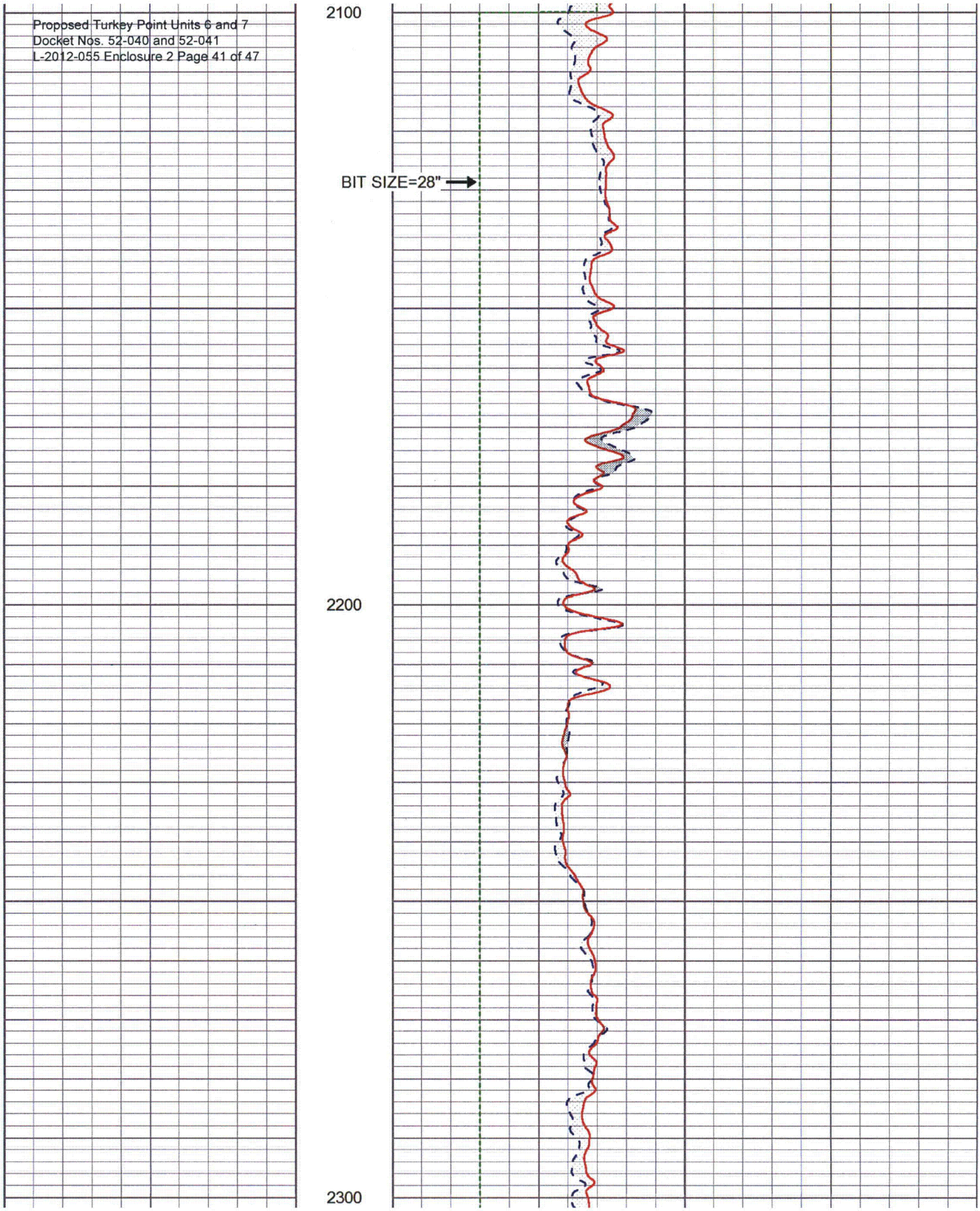
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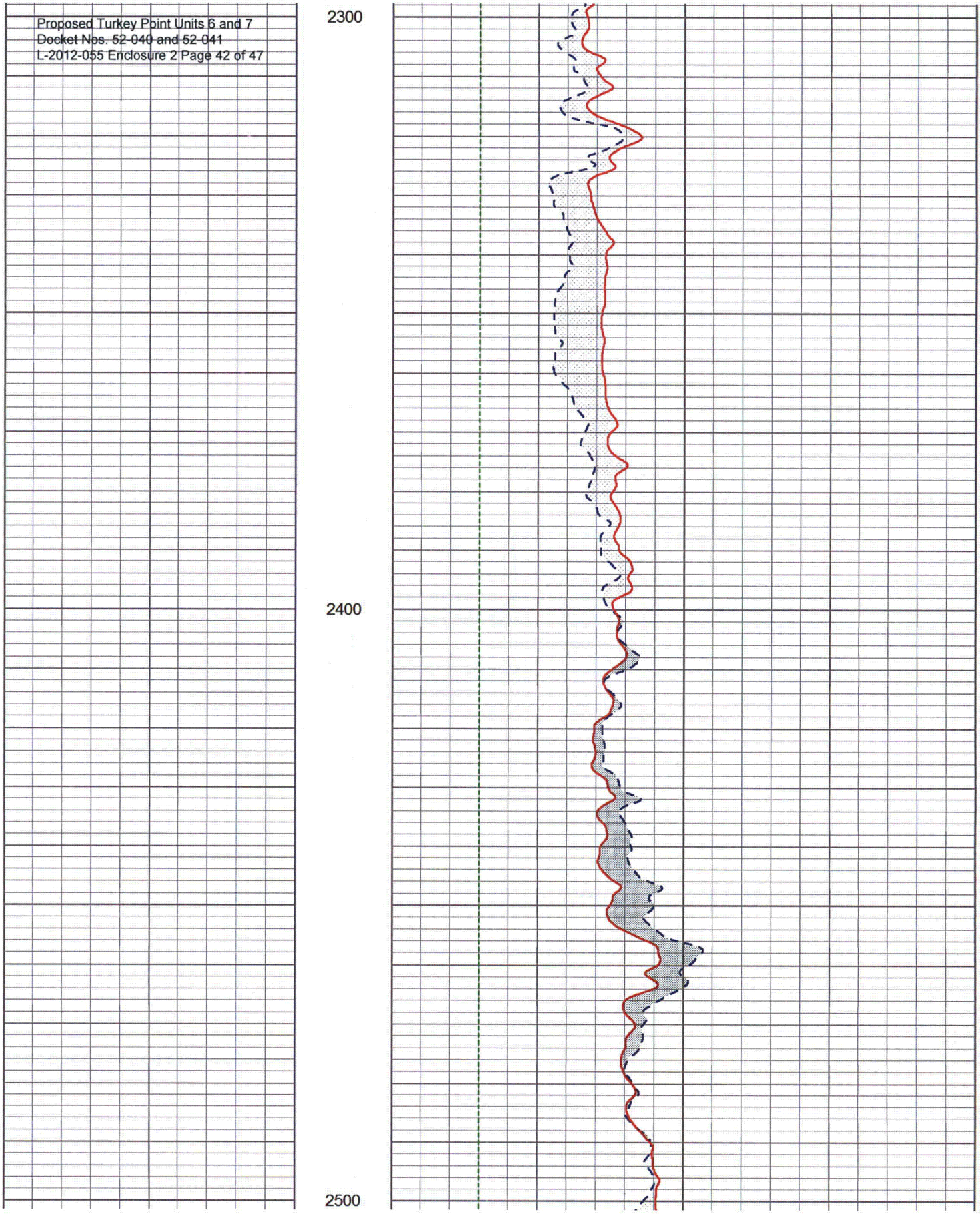
2300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2400
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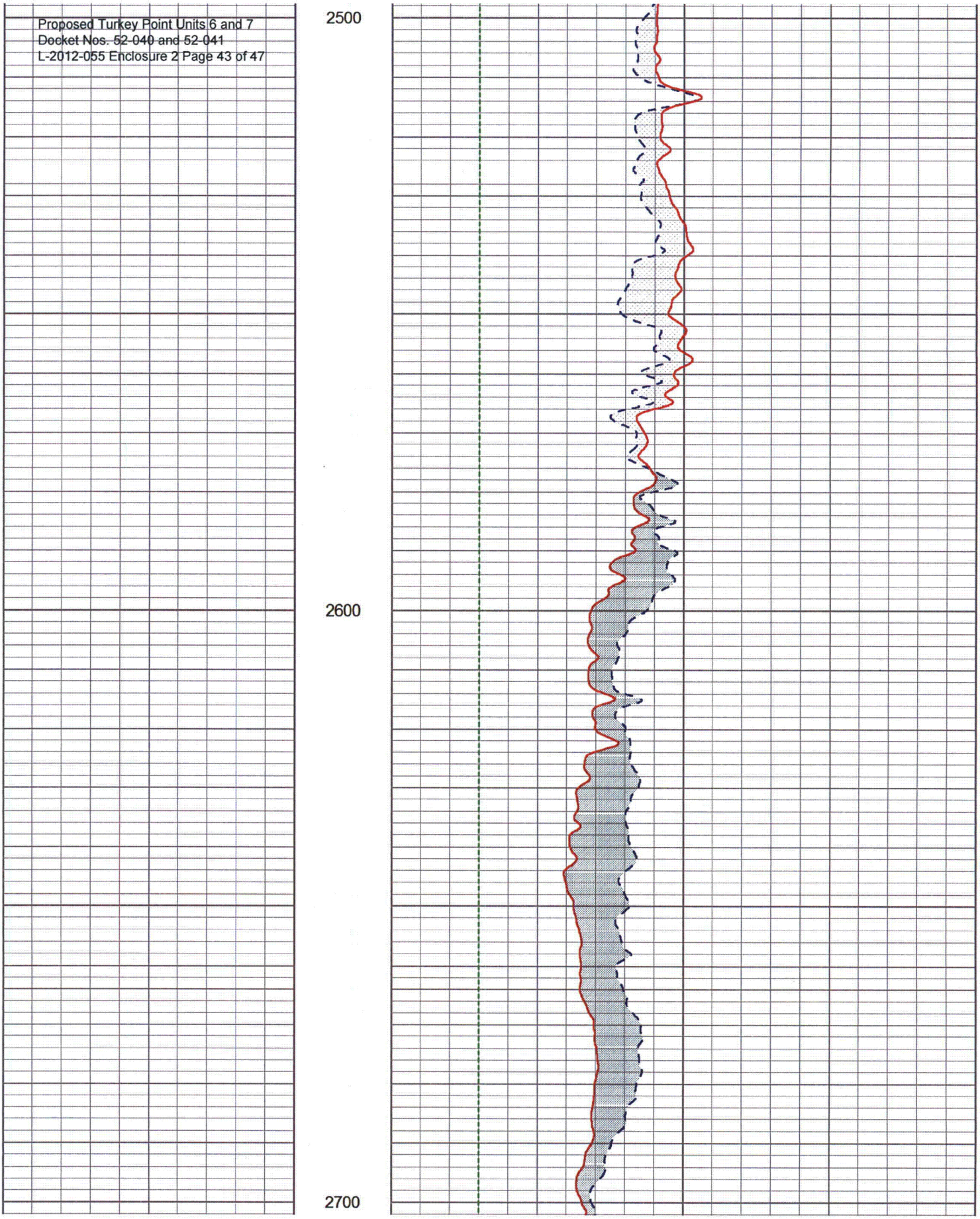
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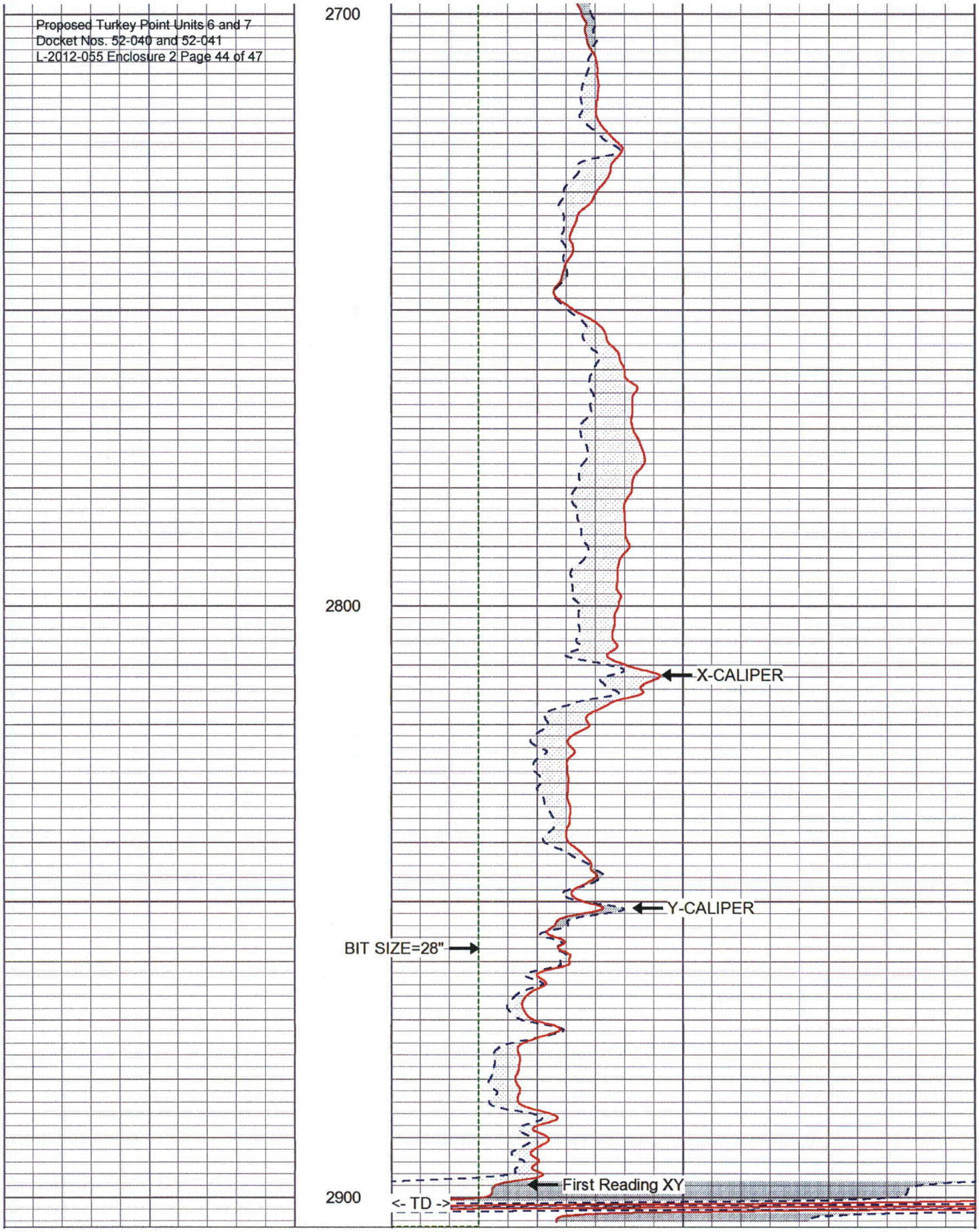
2700
2800
2900
X-CALIPER
Y-CALIPER
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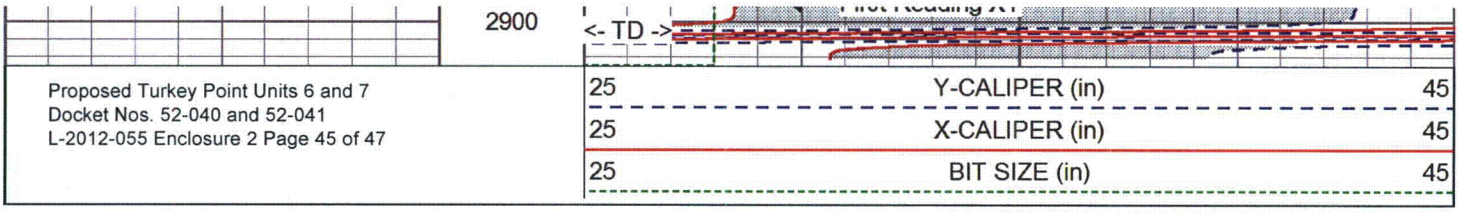
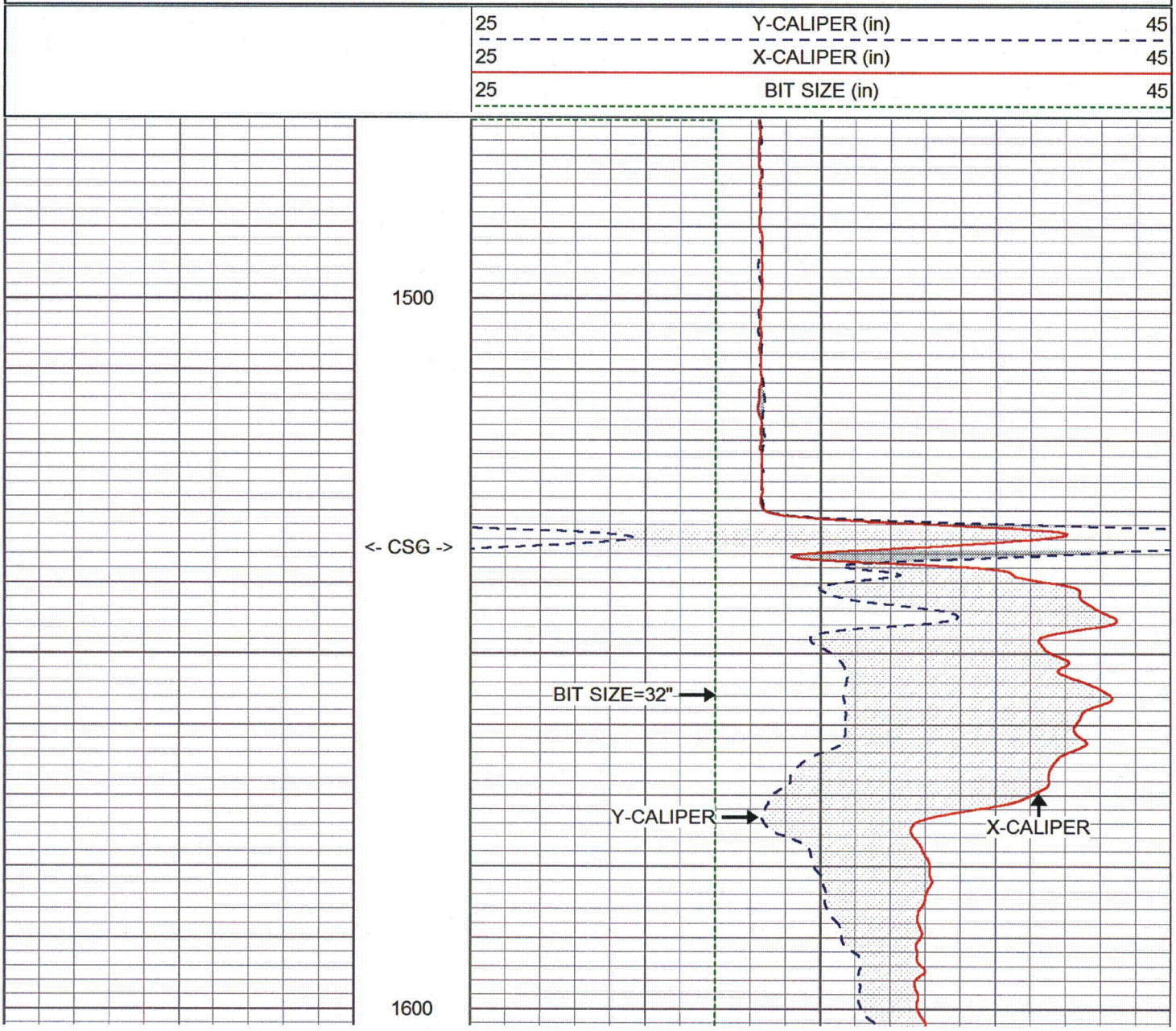
First Reading XY
<- TD ->

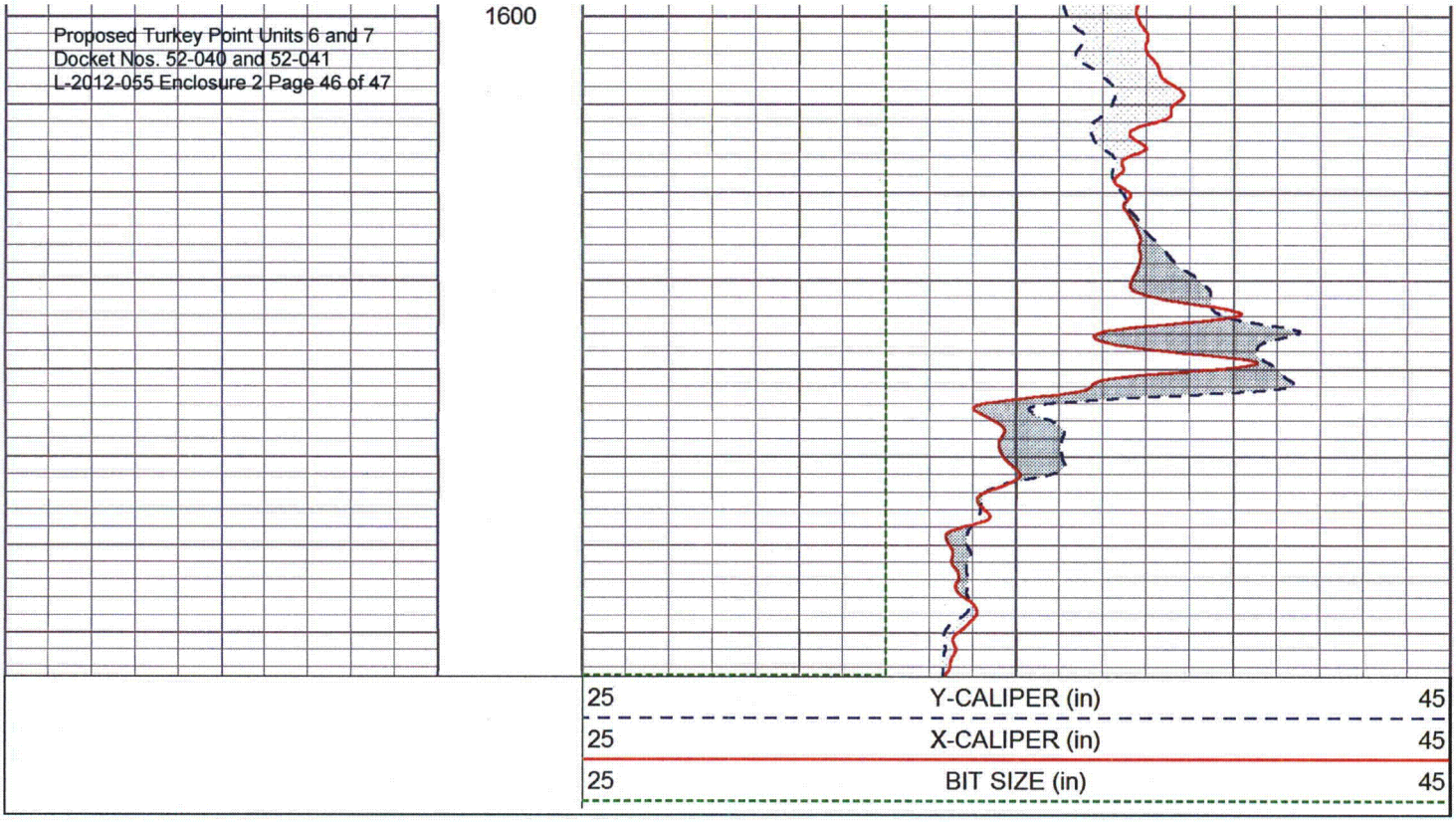


MV Geophysical

REPEAT SECTION

Database File: ltp1b.db
Dataset Pathname: run12/REPEAT
Presentation Format: xy2545-5
Dataset Creation: Tue Jan 24 15:35:56 2012
Charted by: Depth in Feet scaled 1:240





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-GROH (01)	2.75	3.50	40.00
GR	7.60					
			XYC-XYCL (01L)	6.60	3.50	87.00
XCAL	2.25					
YCAL	2.25					

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

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

MHC 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

MHC McNabb Hydrogeologic Consulting, Inc.

ASRUS, LLC

Daily Construction Log

Date: January 26, 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: Preparing for 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 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.

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.

MHC McNabb Hydrogeologic Consulting, Inc.

ASRUS, LLC

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.

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.

MHC McNabb Hydrogeologic Consulting, Inc.

ASRUS, LLC

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.

MHC McNabb Hydrogeologic Consulting, Inc.

ASRUS, LLC

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.

MHC McNabb Hydrogeologic Consulting, Inc.

ASRUS, LLC

Daily Construction Log

Date: January 29, 2012
Project: FPL Turkey Point EW
Contractor: Layne Christensen Company
Starting Depth: 2,900 feet bpl
Weather Day: Cloudy, Mild, Rain
Weather Night: Cloudy, Windy, 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 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

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.

MHC McNabb Hydrogeologic Consulting, Inc.

ASRUS, LLC

Daily Construction Log

Date: January 30, 2012
FDEP UIC Permit #:0293962-001-UC
Project: FPL Turkey Point EW
Well No.: EW-1
Contractor: Layne Christensen Company
Bit Diameter: 32-inch
Starting Depth: 2,100 feet bpl
Ending Depth: 2,100 feet bpl
Weather Day: Cloudy, Windy, Mild
Recorded By: Sally Durall/Deborah Daigle
Weather Night: Partly Cloudy, Cool
Activity: Packer Testing/Prepare for Reaming

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.

MHC McNabb Hydrogeologic Consulting, Inc.

ASRUS, LLC

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.

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.

MHC McNabb Hydrogeologic Consulting, Inc.

ASRUS, LLC

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.

MHC McNabb Hydrogeologic Consulting, Inc.

ASRUS, LLC

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.

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

Proposed Turkey Point Units 6 and 7
Docket Nos. 52-040 and 52-041
L-2012-055 Enclosure 3 Page 17 of 50

CLIENT: F.P.L

JOBSITE NAME: E.W. - 1

DATE: 01 - 26 - 12
THUR DAYS

JOB #: 11771

JOBSITE LOCATION: T.P.

PERSONNEL DEPLOYED TODAY

Crew Assignment	Employee Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
DRILLER	BOSIT GULOMOV	X	12		12
V.I	VLAD ISHIMOV	X	12		12
A.B.	AKMAL BUDAKHONOV	X	12		12
V.M	VICTOR MOUSHEV	X	12		12

EQUIPMENT DEPLOYED TODAY

Description	Unit #	Status

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

DAILY ACCOUNTING OF ACTIVITIES BY ITEM #

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

MATERIALS USED TODAY

Quantity	Description
	SAFETY MTG:
1	T.I.H PACKER:
2	PROTECTING THE HOLE:
	HAND SAFETY: PINCH POINT: LOADER
	SAFETY: PPE: H.I.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	

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

T.C.H 1STD. DP: Test the packer: Start T.I.H. 27 doubles + 45+30+45 Packer Set ~~2552.45~~ C/L 2552' Replaced Hydrolic hoses Rig Floor. Help Ellis move the casing
ADD 2 BAGS OF SALT TO BRINE

01-26-12
Date

Client's Signature

PAYROLL

Date

Supervisor's Signature

Date

LCC DSR3 062209

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT: FPL
JOBSITE NAME: EW-1
DATE: 1/26/12 THUR. NIGHT
JOB #: 11771
JOBSITE LOCATION: T.P.

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

EQUIPMENT USED TODAY

Description	Unit #	Status

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

DAILY ACCOUNTING OF ACTIVITIES BY ITEM #

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

MATERIALS USED TODAY

Quantity	Description
	SAFETY MEETINGS:
	#1 SETTING A PACKER
	#2 Hazard Identification
	PPE - PINCH POINTS, PACKER TEST,
	LOADER SAFETY, HAND SIGNALS.

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	
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		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

Presure up packers to 620 PSI and set at 2552 bpl to 2574 bpl run air line start air developing. annulus holding producing 60 gallons a minute Shut down test bleed of packers for 2 hrs (2) hours. Move packers to ~~2694 bpl to 2714 bpl~~ 2693 bpl to 2715 ft BPL

Driller's Signature: 1/26/12 Date

Client's Signature: Date

PAYROLL

Superintendent's Signature: Date

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT: F.P.L.

JOBSITE NAME: E.U.2 - F

DATE: 01-27-2012 FRI DAYS.

JOB #: 11771

JOBSITE LOCATION: T.P.

PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
DRILLER	BOSIL CHUIOMOV	X	12		12
V.T	VLAD TSHIMOV	X	12		12
A.B	AKMAL BURKHANOV	X	12		12
V.M	VICTOR MOISUEV	X	12		12

EQUIPMENT DEPLOYED TODAY

Description	Unit #	Status

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

DAILY ACCOUNTING OF ACTIVITIES BY ITEM

Item #	Cost Code	Labor Activity	Hours
1	10000	[illegible]	
2	11100	[illegible]	
3	11150	[illegible]	
4	11300	[illegible]	
5	[illegible]	[illegible]	
6	[illegible]	[illegible]	
7	7000	[illegible]	
8	11750	[illegible]	
9	11750	[illegible]	
10	11750	[illegible]	
11	11750	[illegible]	
12	13500	Install Surface Casing	
13	13500	Install Roadway & Drill Pad	
14	13500	[illegible]	
15	13500	Geophysical Logging & Other Testing	
16	13500	[illegible]	
17	13500	[illegible]	
18	13500	[illegible]	
19	13500	[illegible]	
20	13500	[illegible]	
21	13500	Geophysical Logging & Other Testing	
22	13500	[illegible]	
23	13500	[illegible]	
24	13500	[illegible]	
25	13500	[illegible]	
26	13500	[illegible]	
27	13500	[illegible]	
28	13500	[illegible]	
29	13500	[illegible]	
30	13500	[illegible]	
31	[illegible]	Well Development Air Lift and Swab	
32	[illegible]	Disposal of Fluids & Cuttings	
33	14150	Flush & Install Test Pump and Discharge	
34	14550	[illegible]	
35	14700	[illegible]	
36	14300	[illegible]	
37	[illegible]	[illegible]	
38	[illegible]	[illegible]	
39	[illegible]	[illegible]	
40	13500	[illegible]	
41	13500	[illegible]	
42	13500	[illegible]	
43	[illegible]	[illegible]	
44	[illegible]	[illegible]	
45	[illegible]	[illegible]	
		Lunch	
		TOTAL HOURS:	

MATERIALS USED TODAY

Quantity	Description
	SAFETY MTG:
1	PACKER TEST:
2	HAZARD COMMUNICATION:
	HAND SAFETY: P.P.E: H.J.R.A:
	LOADER SAFETY: PINCH POINT:

TIME OF ACTIVITY BY ITEM

From	To	Circle One	Item #
7:30	8:30	AM PM	
8:30	8:50	AM PM	
8:50	9:15	AM PM	
9:15	11:45	AM PM	
11:45	2:30	AM PM	
2:30	3:45	AM PM	
3:45	5:00	AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	

PACKER SET: 2693'-2719' COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

PRESS UP PACKER: TO 620psi: RUN AIR LINE: START AIR DEVELOPING: ANNULUS HOLDING: 150-200 GAL MIN, SHUT DOWN TEST: BLEED OFF PACKER: MOVE PACKER T.O.H 5 STD D.P + PUP: T.I.H 45' + 10' + 3' PACKER SET: 2220'-2224': START PRESS PACKER: 620 PSI: START AIR DEVELOPING 1 MIN 16 GAL.

01-27-12

Client's Signature

PAYROLL

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT: FPL
JOBSITE NAME: EW-1
DATE: 11/27/2012 Fri. ~~Days~~ 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 MR	Michael A. Ramirez	X	12		12
JN	Juan Nieto	X	12		12
JM	James Mcdonnell	X	12		12

EQUIPMENT DEPLOYED TODAY

Description	Unit #	Status

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

DAILY ACCOUNTING OF ACTIVITIES BY ITEM #

Item #	Cost Code	Labor Activity	Hours
1	10000	Short Duration Job	
2	11100	Onsite Mob/Demob	
3	11150	Job Preparation	
4	11200	Safety Meeting	
5	0005	Training - Overhead	
6	0006	Shop Overhead	
7	0007	Maintenance - Overhead	
8	11250	Training - Job Chargeable	
9	11300	Site Clean up	
10	11350	Install Sound Walls	
11	11400	Install Decon Pad	
12	11450	Install Surface Casing	
13	11500	Install Roadway & Drill Pad	
14	[illegible]	Test Hole Drilling	
15	12100	Geophysical Logging & Other Testing	
16	12150	Aquifer Zone Testing	
17	[illegible]	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 Washing	
31	14050	Well Development: Air Lift and Swab	
32	14100	Disposal of Fluids & Cuttings	
33	14150	Furnish & Install Test Pump and Discharge	
34	14200	Development Pumping	
35	14250	Test Pumping	
36	14300	Disinfection and Chlorination	
37	19050	Offsite Activities Mob/Demob	
38	19100	Shop	
39	19150	Administration	
40	19550	Other Activities Standby	
41	19600	Fishing for Lost/Broken Tooling	
42	19650	Change Order Activities	
43	88000	Equipment Repairs	
44	90170	Damages	
45	90200	Job Superintendent	
		Lunch	
		TOTAL HOURS	

MATERIALS USED TODAY

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

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	
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		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	

2220 - 2212 DTC

Packer Test. Air Develop. Collect water Samples.
Sweep-Mop-clean Drill House, Clean MCC's, and Partshouse,
Take out Trash. Trip out Air line Trip IN Pump.

M. R.
Initial Signature / Print Name — Date

Client's Signature — Date

PAYROLL

K. P.
Supervisor's Signature — Date

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT: F.P.L.
JOBSITE NAME: EW-1
DATE: 01-28-2012 SHT DAYS!
JOB #: 11771
SUPERVISOR: T.P.

PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
Driller	Bosit Gulomov	X	12		12
V.I	VLAD ISHIMOV	X	12		12
A.B.	AILMAI BURKHANOV	X	12		12
V.M	VICTOR MOISYEV	X	12		12

EQUIPMENT DEPLOYED TODAY

Description	Unit #	Status

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

DAILY ACCOUNTING OF ACTIVITIES BY ITEM #

Item #	Cost Code	Task Activity	Hours
1	[illegible]	[illegible]	
2	[illegible]	[illegible]	
3	[illegible]	[illegible]	
4	[illegible]	[illegible]	
5	[illegible]	[illegible]	
6	[illegible]	[illegible]	
7	[illegible]	Maintenance Charges	
8	[illegible]	Travel - Job Comparable	
9	[illegible]	Mob Equipment	
10	[illegible]	Install Sound Walls	
11	[illegible]	Install Decon Pad	
12	[illegible]	Install Surface Casing	
13	[illegible]	Install Roadway & Drill Pad	
14	[illegible]	[illegible]	
15	[illegible]	[illegible]	
16	[illegible]	[illegible]	
17	[illegible]	[illegible]	
18	[illegible]	Maintenance Well Installation	
19	[illegible]	[illegible]	
20	[illegible]	[illegible]	
21	[illegible]	[illegible]	
22	[illegible]	[illegible]	
23	[illegible]	[illegible]	
24	[illegible]	[illegible]	
25	[illegible]	[illegible]	
26	[illegible]	[illegible]	
27	[illegible]	[illegible]	
28	[illegible]	[illegible]	
29	[illegible]	[illegible]	
30	[illegible]	Well Development Airlift and Swab	
31	[illegible]	Disposal of Fluids & Cuttings	
32	[illegible]	Hydrosh & Final Test Pump and Discharge	
33	[illegible]	[illegible]	
34	[illegible]	Test Pumping	
35	[illegible]	[illegible]	
36	[illegible]	[illegible]	
37	[illegible]	Stop	
38	[illegible]	[illegible]	
39	[illegible]	[illegible]	
40	[illegible]	[illegible]	
41	[illegible]	Change Order Accepted	
42	[illegible]	[illegible]	
43	[illegible]	[illegible]	
44	[illegible]	Job Supervisor	
		[illegible]	
		Total Hours	

MATERIALS USED TODAY

Quantity	Description
	SAFETY MTG.
(1)	LOCKOUT/TAGOUT - PROCEDURES!
(2)	FIRE PROTECTION!
	PPE: H.I.R.A.; HAND SAFETY;
	EYE, HEARING, FALL, PROTECTION!

TIME OF ACTIVITY BY ITEM #

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

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

PACKER TEST: INSTALLED PUMP AND (2220-2242) TRANSDUCER; START TEST: @ 7:55 am RECOVERY: STEP TEST START PUMP 10:30 am 5 GAL MIN: AND 4; GAL MIN; STEP TEST RECOVERY @ 2:30 pm; STOP RECOVERY: @ 5:30 pm.

Supervisor Signature: 01-28-12 Date

Client's Signature: PAYROLL Date

Supervisor's Signature: Date

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT: FPL

JOBSITE NAME: EW-1

Proposed Turkey Point Units 6 and 7
Docket Nos. 52-040 and 52-041
L-2012-055 Enclosure 3 Page 22 of 50

DATE: 1/28/2012 Sat. Night

JOB #: 11771

JOBSITE LOCATION: Turkey Point

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	Jvon Nieto	X	12		12
[illegible]	James McDonnell	X	12		12

EQUIPMENT DEPLOYED TODAY

Description	Unit #	Status

Working	WK	Mobilization	[illegible]
Standby	SB	Demobilization	DM
Down in Shop	[illegible]	Available in Yard	AY
Down on Site	DN	Available on Job	[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 & Drill Pad	
14	12050	Test Hole Drilling	
15	12100	Geophysical Logging & Other Testing	
16	12150	Aquifer Zone Testing	
17	12200	Borehole Abandonment	
18	13050	Production Well Installation	
19	13100	Install Conductor Pipe	
20	13150	Drill Borehole	
21	13200	Geophysical Logging & Other Testing	
22	13250	Aquifer Zone Testing	
23	13300	Borehole Abandonment /Cement Plugs	
24	13350	Reaming	
25	13400	Under Reaming	
26	13450	Install Casing	
27	13500	Install Screen	
28	13550	Gravel Pack The Well	
29	13600	Install Annular Seal	
30	13650	Water Watching	
31	14050	Well Development Air Lift and Swab	
32	14100	Disposal of Fluids & Cuttings	
33	14150	Furnish & Install Test Pump and Discharge	
34	14200	Development Pumping	
35	14250	Test Pumping	
36	14300	Disinfection and Chlorination	
37	19050	Offsite Activities Mob/Demob	
38	19100	Shop	
39	19150	Administration	
40	19550	Other Activities Standby	
41	19600	Fishing for Lost/Broken Tooling	
42	19650	Change Order Activities	
43	88000	Equipment Repairs	
44	90170	Damages	
45	90200	Job Superintendent	
		Lunch	
		TOTAL HOURS	

MATERIALS USED TODAY

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

TIME OF ACTIVITY BY ITEM

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

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. Inflate Packer. (MOVED TO 2478' TO 2500)

M. Ramirez — Worker's Signature — 1/28/12 — Date

Supervisor's Signature — Date — PAYROLL

Customer Signature — 1/28/12 — Date

LCC DSR 1 062209

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

Proposed Turkey Point Units 6 and 7
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CLIENT: FPL
JOBSITE NAME: [illegible]
DATE: 1/29/2012 Sun ~~Night~~ DAY
JOB #: 11771
JOBSITE LOCATION: Turkey Point

PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
Driller	George Hugo	X	12		12
V1	Vlad Ishimov	X	12		12
D.B.	AKMAL BURKHANOV	X	12		12
V.M	Victor Moiseyev	X	12		12

EQUIPMENT DEPLOYED TODAY

Description	Unit #	Status

Working	[redacted]	Mobilization	MB
Standby	SB	Demobilization	DM
Down in Shop	OS	Available in Yard	AY
Down on Site	[redacted]	Available on Job	AV

DAILY ACCOUNTING OF ACTIVITIES BY ITEM #

Item #	Cost Code	Labor Activity	Hours
1	10000	Short Duration Job	
2	11100	Onsite Mob/Demob	
3	11150	Job Preparation	
4	11200	Safety Meeting	
5	0005	Training - Overhead	
6	0006	Shop - Overhead	
7	0007	Maintenance - Overhead	
[redacted]	11250	Training - Job Chargeable	
9	11300	Site Clean up	
10	11350	Install Sound Walls	
11	11400	Install Decon Pad	
12	11450	Install Surface Casing	
13	11500	Install Roadway & Drill Pad	
14	12050	Test Hole Drilling	
15	12100	Geophysical Logging & Other Testing	
16	12150	Aquifer Zone Testing	
[redacted]	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	
[redacted]	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	Ancillary 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
	1st Safety meeting : Accident Reporting
	2nd Safety meeting Good Communication
	Safety topics
	High pressure lines, PPE, trip hazards
	open hole, good hand signals, overhead

TIME OF ACTIVITY BY ITEM #

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

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

Pressure up packers to 1620 PSI and set packers, packers taking weight trip in 3 stands of airline packers still holding @620 PSI. Start to air develop Annulus does not drop producing 90 6pm Fill up all of fourtin tew minutes. Release packer Pressure @ 845 AM to 1205 pm. Move packer from 2400 bpl to 2478 bpl. Pressure up to 620 psi packer held. Set packer taking weight, start [illegible] 40 pm. Start to air develop No loss of Annulus. Packer set 2478 - 25 FT BPL

1/29/2012

Name | Time | Print Signature | PAYROLL | Time | Crewman's Signature | Date

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

Proposed Turkey Point Units 6 and 7
Docket Nos. 52-040 and 52-041
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CLIENT: FPL
WELL NAME: EW-1
DATE: 1/29/2012 Sunday Night
JOB #: 11771
JOBSITE LOCATION: Turkey Point

PERSONNEL EMPLOYED TODAY

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

EQUIPMENT DEPLOYED TODAY

Description	Unit #	Status

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

DAILY ACCOUNTING OF ACTIVITIES BY ITEM

Item #	Cost Code	Labor Activity	Hours
1	10000	Short Duration Job	
2	11100	Onsite Mob/Demob	
3	11150	Job Preparation	
4	11200	Safety Meeting	
5	0005	Training - Overhead	
6	0006	Shop - Overhead	
7	0007	Maintenance - Overhead	
8	11250	Training - Job Chargeable	
9	11300	Site Clean up	
10	11350	Install Sound Walls	
11	11400	Install Decon Pad	
12	11450	Install Surface Casing	
13	11500	Install Roadway & Drill Pad	
14	12050	Test Hole Drilling	
15	12100	Geophysical Logging & Other Testing	
16	12150	Aquifer Zone Testing	
[illegible]	12200	Borehole Abandonment	
[illegible]	13050	Production Well Installation	
19	13100	Install Conductor Pipe	
20	13150	Start Pilot Hole	
21	13200	Geophysical Logging & Other Testing	
22	13250	Aquifer Zone Testing	
23	13300	Borehole Abandonment /Cement Plugs	
[illegible]	13350	Reaming	
25	13400	Under Reaming	
26	13450	Install Casing	
27	13500	Install Screen	
[illegible]	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 Muds & Cuttings	
33	14150	Furnish &Install Test Pump and Discharge	
34	14200	Development Pumping	
35	14250	Test Pumping	
36	14300	Disinfection and Chlorination	
37	19050	Offsite Activities Mob/Demob	
38	19100	Shop	
39	19150	Administration	
40	19550	Other Activities Standby	
41	19600	Fishing For Lost/Broken Tooling	
42	19650	Change Order Activities	
43	88000	Equipment Repairs	
44	90170	Damages	
45	90200	Job Superintendent	
		Lunch	
		TOTAL HOURS	

MATERIALS USED TODAY

Quantity	Description
	Safety Meetings
1)	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 ITEM

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

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.

Packer Test: 2,478 - 2,500 ft BLS

Inspector's Signature: M. Ramirez — Date
Client's Signature — Date
PAYROLL
Foreman's Signature — Date

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT FPL

JOBSITE NAME EWI

DATE 1-30-12 MON DAYS

JOB # 11771

JOBSITE LOCATION TP

PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
DRILL	DANNY KEELEY	X	12		12
AP	ANDREY POPOV	X	12		12
J Y	JUSTIN YEOMANS	X	12		12
A B	AKMAL BURKHANOV	X	12		12

EQUIPMENT DEPLOYED TODAY

Description	Unit #	Status

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

DAILY ACCOUNTING OF ACTIVITIES BY ITEM

Item #	Cost Code	Labor Activity	Hours
1	10000	Short Duration Job	
2	11100	Onsite Mob/Demob	
3	11150	Job Preparation	
4	11200	Safety Meeting	
5	0005	Training - Overhead	
6	0006	Shop Overhead	
7	0007	Maintenance - Overhead	
8	11250	Training - Job Chargeable	
9	11300	Site Clean up	
10	11350	Install Sound Walls	
11	11400	Install Decon Pad	
12	11450	Install Surface Casing	
13	11500	Install Roadway & Drill Pad	
14	12050	Test Hole Drilling	
15	12100	Geophysical Logging & Other Testing	
16	12150	Aquifer Zone Testing	
17	12200	Borehole Abandonment	
18	13050	Production Well Installation	
19	13100	Install Conductor Pipe	
20	13150	Ream 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 Tye Wall	
29	13600	Install Annular Seal	
30	13650	Water Watching	
31	14050	Well Development Air Lift and Swab	
32	14100	Disposal of Fluids & Cuttings	
33	14150	Furnish & Install Test Pump and Discharge	
34	14200	Development Pumping	
35	14250	Test Pumping	
36	14300	Disinfection and Chlorination	
37	19050	Offsite Activities Mob/Demob	
38	19100	Shop	
39	19150	Administration	
40	19550	Other Activities Standby	
41	19600	Fishing for Lost/Broken Tooling	
42	19650	Change Order Activities	
43	88000	Equipment Repairs	
44	90170	Damages	
45	90200	Job Superintendent	
		Lunch	
		TOTAL HOURS	

MATERIALS USED TODAY

Quantity	Description
	SAFETY MEETINGS:
	#1 TRIPPING OUT PUMP
	#2 LAYING DOWN PIPE
	PPE, LOADER SAFETY, PINCH POINTS

TIME OF ACTIVITY BY ITEM

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

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

PACKER TEST RECOVERY STOP TEST @ 7:45AM
DOWLOAD DATA BLEED PACKERS @ 8:20AM
TOOH WITH PACKERS

Layne Supervisor Signature — Date — Client's Signature — Date — Engineer's Signature — Date

PAYROLL

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

Proposed Turkey Point Units 6 and 7
Docket Nos. 52-040 and 52-041
L-2012-055 Enclosure 3 Page 26 of 50

CLIENT: FPL
JOBSITE NAME: FW-1
DATE: 1/30/2012 Monday Night
JOB #: 11721
JOBSITE LOCATION: Turkey Point

PERSONNEL DEPLOYED TODAY

Crew Assignment	Employee Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
DRILLER WC	MICHAEL RAMIREZ	X	12		12
VE	VLAD ISHIMOV	X	12		12
OW	JUAN NIETO	X	12		12
	JAMES MCDONNELL	X	12		12

EQUIPMENT DEPLOYED TODAY

Description	Unit #	Status

Working	WK	Mobilization	[redacted]
Standby	SB	Demobilization	DM
Down in Shop	DS	Available in Yard	AY
Down on Site	ON	Available on Job	AV

DAILY ACCOUNTING OF ACTIVITIES BY ITEM #

Item #	Cost Code	Labor Activity	Hours
1	10000	Short Duration Job	
2	11100	Onsite Mob/Demob	
3	11150	Job Preparation	
4	11200	Safety Meeting	
5	[redacted]	Training - Overhead	
6	0006	Shop - Overhead	
7	0007	Maintenance - Overhead	
8	11250	Training - Job Chargeable	
9	11300	Site Clean up	
10	11350	Install Sound Walls	
11	11400	Install Decon Pad	
12	11450	Install Surface Casing	
13	11500	Install Roadway & Drill Pad	
14	12050	Test Hole Drilling	
15	12100	Geophysical Logging & Other Testing	
16	12150	Aquifer Zone Testing	
17	12200	Borehole Abandonment	
18	13050	Production Wellinstallation	
19	13100	Install Conductor Pipe	
20	13150	Drill Pilot Hole	
21	[redacted]	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	
[redacted]	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 Bend & Test Pump and Discharge	
34	14200	Development Pumping	
[redacted]	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	[redacted]	Job Superintendent	
		Lunch	
		TOTAL HOURS	

MATERIALS USED TODAY

Quantity	Description
	Safety Meeting
	1) Making up 32" bit & weights BHA
	2) Fowzky Radiation
	PPE, Ladder safety, Electrical Safety, open hole caution,
	wildlife, fire safety,

TIME OF ACTIVITY BY ITEM #

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

Make up 32" bit & BHA 1 collar section & 5 weights BHA 75K. TIH 22 Std. DP & 6.5 Std Air line. [redacted] TAKE out Trash. Housekeeping Clean off Floor

M. R.
Foreman's Signature — Date

Client's Signature — Date

PAYROLL

Inspector's Signature — Date

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT: FPL
JOBSITE NAME: EW1
DATE: 1/31/12 Tues day Shift
JOB #: 11771
JOBSITE LOCATION: Turkey Point

PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
Driller	Danny Keeley	X	12		12
C D	George Haga	X	12		12
H P	Andrey Popov	X	14		14
V M	Victor Moiseyev	X	12		12

EQUIPMENT DEPLOYED TODAY

Description	Unit #	Status

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

DAILY ACCOMPLISHED ACTIVITIES BY ITEM #

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

MATERIALS USED TODAY

Handling	Description
	Safety Meeting
	① Proper Hand Signals
	② 100% tie off
	Safety topic
	Slip trips & falls, PPE, weather
	Safety high pressure lines, horseplay

TIME OF ACTIVITY BY ITEM #

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

Continue to trip 32" bit tag up @ 2100 bpl to 2193 bpl drilled w/32" bit min deviation survey @ 2130 bpl at .5 degrees make connection resume drilling 2193 bpl to 2218 bpl Pressured both packers together to 300 psi.

Danny Keeley — Installer's Signature — 1/31/12 Date

Client's Signature — Date

PAYROLL

Inspector's Signature — Date

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT: FPL
DRILL HEADING: EW1
DATE: 1/31/2012 tues. Night
JOB #: 11771
JOBSITE LOCATION: Turkey Point

PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
Drill MGR	Michael A. Ramirez	X	12		12
D.G	Bosit Gulomov	X	8		8
JN	Juan Nieto	X	12		12
	James Mcdonnell	X	12		12
	Justin Yeomans	X	12		12

EQUIPMENT DEPLOYED TODAY

Description	Unit #	Status

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

DAILY ACCOUNTING OF ACTIVITIES BY ITEM #

Item #	Cost Code	Labor Activity	Hours
1	10000	Short Duration Job	
2	11100	Onsite Mob/Demob	
3	11150	Job Preparation	
4	11200	Safety Meeting	
5	0005	Training - Overhead	
6	0006	Shop - Overhead	
7	0007	Maintenance - Overhead	
8	11250	Training - Job Chargeable	
9	11300	Site Clean up	
10	11350	Install Sound Walls	
11	11400	Install Decon Pad	
12	11450	Install Surface Casing	
13	11500	Install Roadway & Drill Pad	
14	12050	Test Hole Drilling	
15	12100	Geophysical Logging & Other Testing	
16	12150	Aquifer Zone Testing	
17	12200	Borehole Abandonment	
18	13050	Production Well Installation	
19	13100	Install Conduit or Pipe	
20	13150	Trail Motor	
21	13200	Geophysical Logging & Other Testing	
22	13250	Aquifer Zone Testing	
23	13300	Borehole Abandonment/Cement Plugs	
24	13350	Reaming	
25	13400	Under Reaming	
26	13450	Install Casing	
27	13500	Install Screen	
28	13550	Gravel Pack the Well	
29	13600	Install Annular Seal	
30	13650	Water Watching	
31	14050	Well Development Air Lift and Swab	
32	14100	Disposal of Fluids & Cuttings	
33	14150	Furnish & Install Test Pump and Discharge	
34	14200	Development Pumping	
35	14250	Test Pumping	
36	14300	Disinfection and Chlorination	
37	19050	Other Activities Mob/Demob	
38	19100	Shop	
39	19150	Administration	
40	19550	Other Activities Standby	
41	19600	Fishing for Lost/Broken Tooling	
42	19650	Change Order Activities	
43	88000	Equipment Repairs	
44	90100	Damages	
45	90200	Job Superintendent	
		Lunch	
		TOTAL HOURS	

MATERIALS USED TODAY

Quantity	Description
	Safety Meetings
	1) Personal Protection
	2) Personal Physical Hazards
	High Winds, eye Protection, housekeeping, loader Safety,

TIME OF ACTIVITY BY ITEM #

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

Continue drilling w 32" bit from 2218' bpl to 2283' bpl. Run Survey @ 2190' bpl got .5°. Run Survey at 2250' bpl got .3°. Make Connection Continue drilling from 2283' bpl to 2373' bpl. Run Survey at 2310' bpl got .3°. Make Connection Continue drilling 32" bit from 2373' bpl to 2380'

M. Ramirez
Inspector's Signature — Date

Client's Signature — Date

PAYROLL

Supervisor's Signature — Date

LCC DSR 1 082209

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT: FPL

JOBSITE NAME: EWI

Proposed Turkey Point Units 6 and 7
Docket Nos. 52-040 and 52-041
L-2012-055 Enclosure 3 Page 29 of 50

DATE: 2/1/12 Wed day Shift

JOB #: 11771

JOBSITE LOCATION: Turkey Point

PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
Driller	Danny Keeley	X	12		12
GH	George Haga	X	12		12
AF	Andrey Popov	X	12		12

EQUIPMENT DEPLOYED TODAY

Description	Unit #	Status

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

DAILY ACCOUNTING OF ACTIVITY 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	[illegible]	Shop - Overhead	
7	0007	Maintenance - Overhead	
8	11250	Training - Job Changeable	
9	11300	Site Clean up	
10	11350	Install Sound Walls	
11	11400	Install Decon Pad	
12	11450	Install Surface Casing	
13	11500	Install Roadway & Drill Pad	
14	12050	Test Hole Drilling	
15	12100	Geophysical Logging & Other Testing	
16	12150	Aquifer Zone Testing	
17	12200	Borehole Abandonment	
18	13050	Production Well Installation	
19	13100	Install Conductor Pipe	
20	13150	Drill Pilot Hole	
21	13200	Geophysical Logging & Other Testing	
22	13250	Aquifer Zone Testing	
23	13300	Borehole Abandonment /Cement Plugs	
24	13350	Reaming	
25	13400	Under Reaming	
26	13450	Install Casing	
27	13500	Install Screen	
28	13550	Gravel Pack The Well	
29	13600	Install Annular Seal	
30	13650	Water Watching	
31	14050	Well Development: Air Lift and Swab	
32	14100	Disposal of Fluids & Cuttings	
33	14150	Furnish & Install Test Pump and Discharge	
34	14200	Development Pumping	
35	14250	Test Pumping	
36	14300	Disinfection and Chlorination	
37	19050	Office 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	[illegible]	Equipment Repairs	
44	90170	Damages	
45	90200	Job Superintendent	
		Lunch	
		TOTAL HOURS	

MATERIALS USED TODAY

Quantity	Item Name
	Safety meeting
	(1) Power tools
	(2) Complacency
	Safety topics
	Hand safety, slips, trips, & falls
	high pressure lines, electrical safety, fire

TIME OF ACTIVITY BY ITEM

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

Continue to drill w/32" bit from 2380 bpl to 2463 bpl. Run deviation survey @ 2370 bpl, .2 degrees. Run deviation survey @ 2430 bpl, .4 degrees. Make connection. Resume drilling from 2463 bpl to 2550 bpl.

Driller's Signature: Danny Keeley — Date: 2/1/12

LCC DSR 1082209

Client's Rep. Signature — Title

PAYROLL

Witnessed Signature — Date

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

Proposed Turkey Point Units 6 and 7
Docket Nos. 52-040 and 52-041
L-2012-055 Enclosure 3 Page 30 of 50

CLIENT: E.P.L

JOBSITE NAME: EW-1

DATE: 02-01-12 WED NIGHT

JOB #: 11771.1405.10000

JOBSITE LOCATION: Turkey Point

PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
DRILLER	BOSI + GUERMOV	X	12		12
V.I	VLAD ISKIMOV	X	12		12
A.B	AKMAL BURKHONOV	X	12		12
V.M	VICTOR MOISYEV.	X	12		12

EQUIPMENT DEPLOYED TODAY

Description	Unit #	Status

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

DAILY ACCOUNTING OF ACTIVITIES BY ITEM #

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

MATERIALS USED TODAY

Quantity	Description
	SAFETY MTG:
1	ACCIDENT PREVENTION POLICY!
2	H.T.R.A.
	PINCH POINT: HIGH PRESS LINE!
	HAND SAFETY! LOADER SAFETY!
	P.P.E!

TIME OF ACTIVITY BY ITEM #

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

COMMENTS - QUOTES - CONFIRMATIONS - CHANGES - INFORMATION

CONTINUE DRILL 32" BIT! FROM /- 2550' BPL - TO 2554 BPL
RUN & SURVEY @ 2490' .4 DEGREES + 2550' @ .1 MAKE
CONNECTION BACK DRILL FROM /- 2554' BPL - TO -
2644' BPL! RUN SURVEY @ .4! MAKE CONNECTION BACK
DRILL - FROM / 2644' BPL - TO - 2678' BPL

Inspector's Signature: 02-01-12 Date: Client's Signature: PAYROLL Supervisor's Signature: Date:

LCC 0581 082209

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	
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: 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 reoccurance 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

MHC

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

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

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

Florida Power & Light Company
Turkey Point
Exploratory Well EW-1
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	2478 - 2500	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

MHC

Florida Power & Light Company
Turkey Point
Exploratory Well EW-1
Deviation Survey Summary

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

MV Geophysical

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 *

<< Fold Here >>

Comments

MAXIMUM Caliper Arm Extensions: 51"

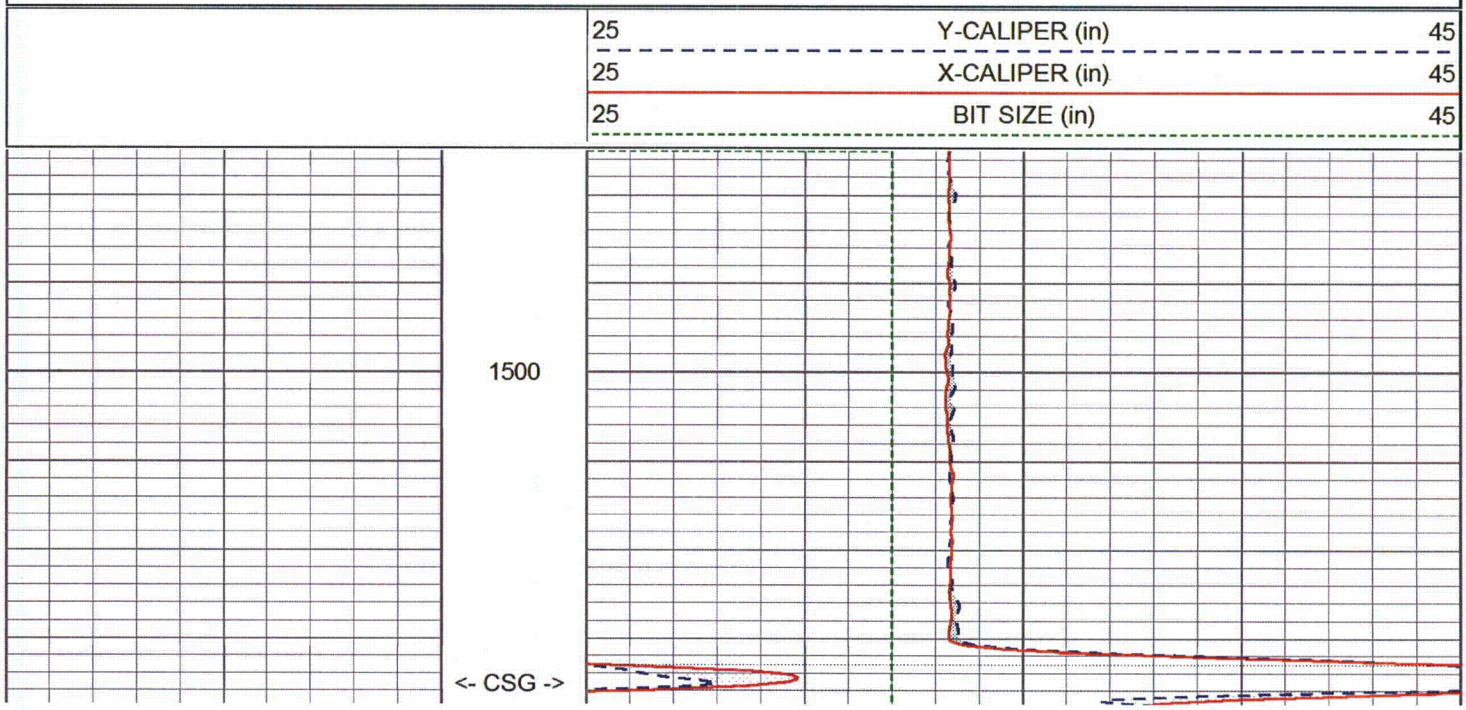
BOREHOLE RECORD

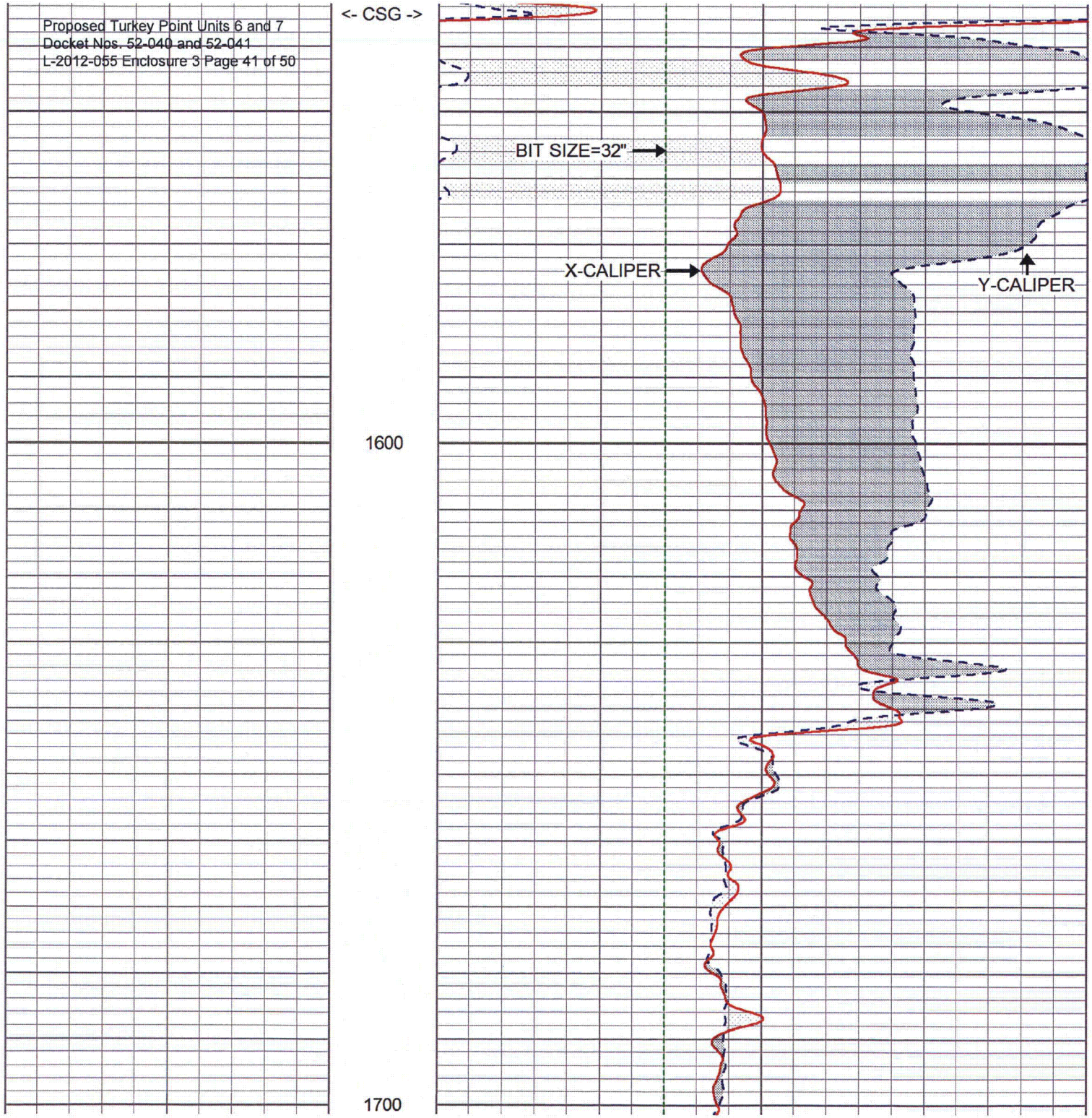
RUN	SIZE	FROM	TO
NINE	28"	2100'	2900'

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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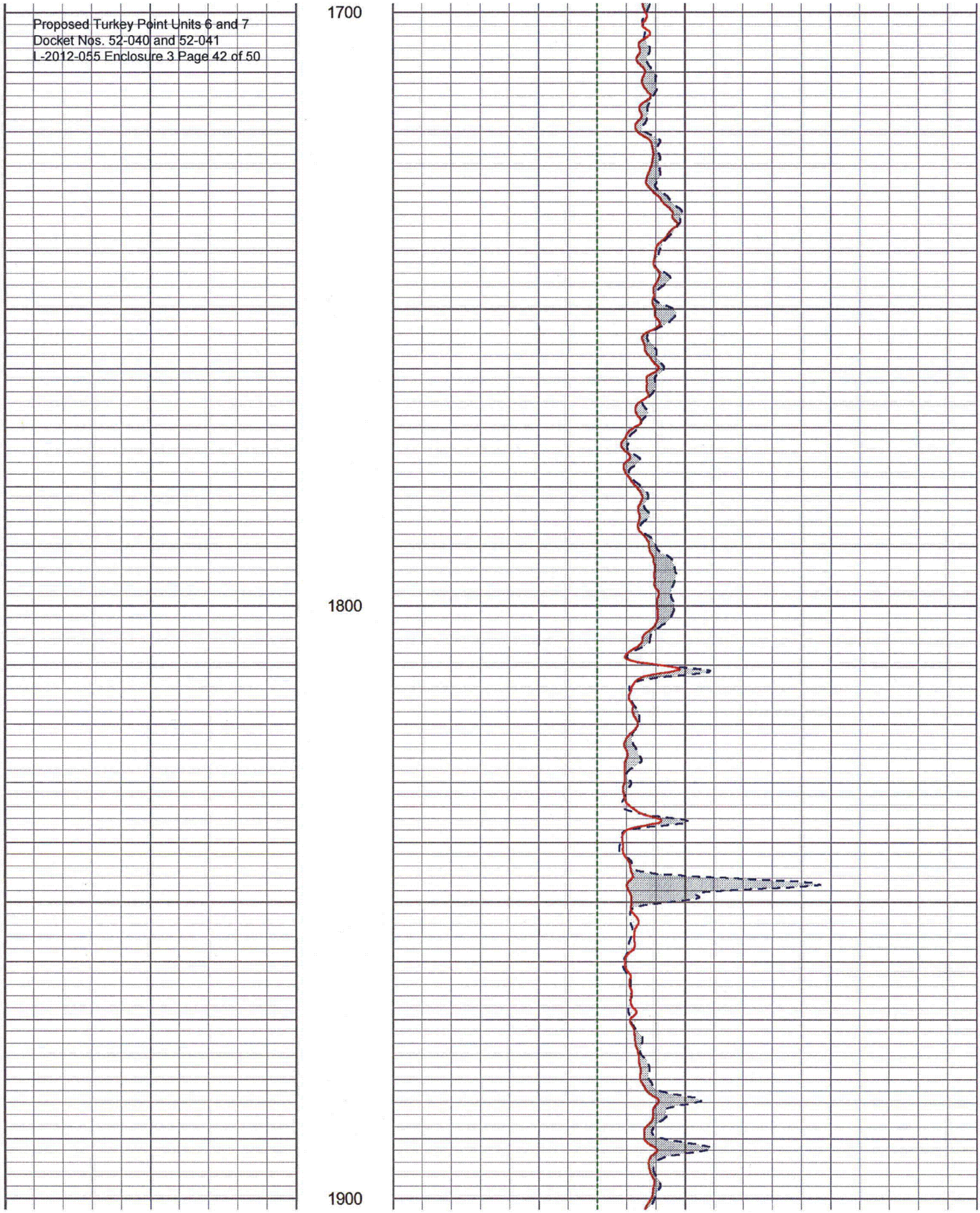
BIT SIZE=32"
X-CALIPER
Y-CALIPER
1600
1700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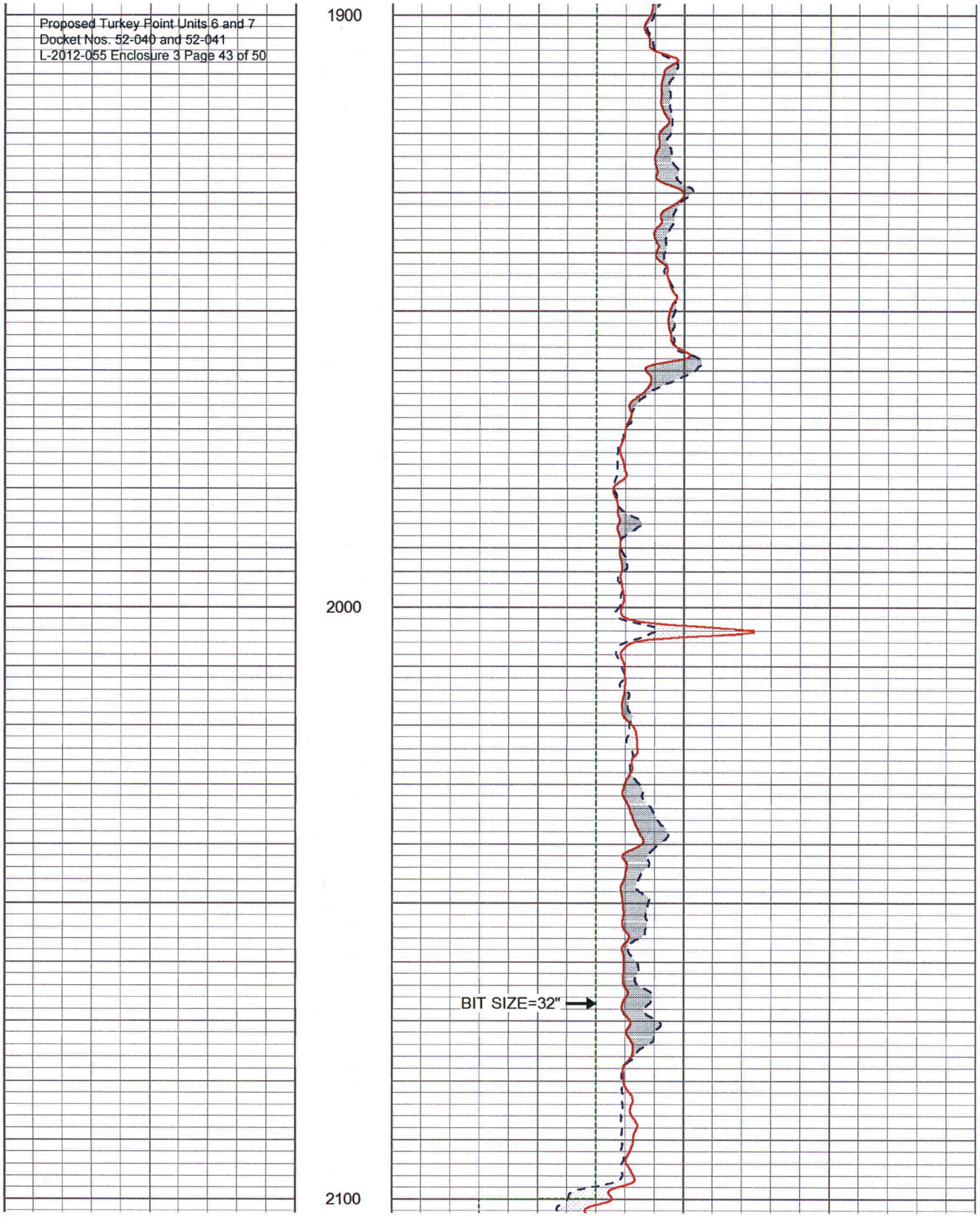
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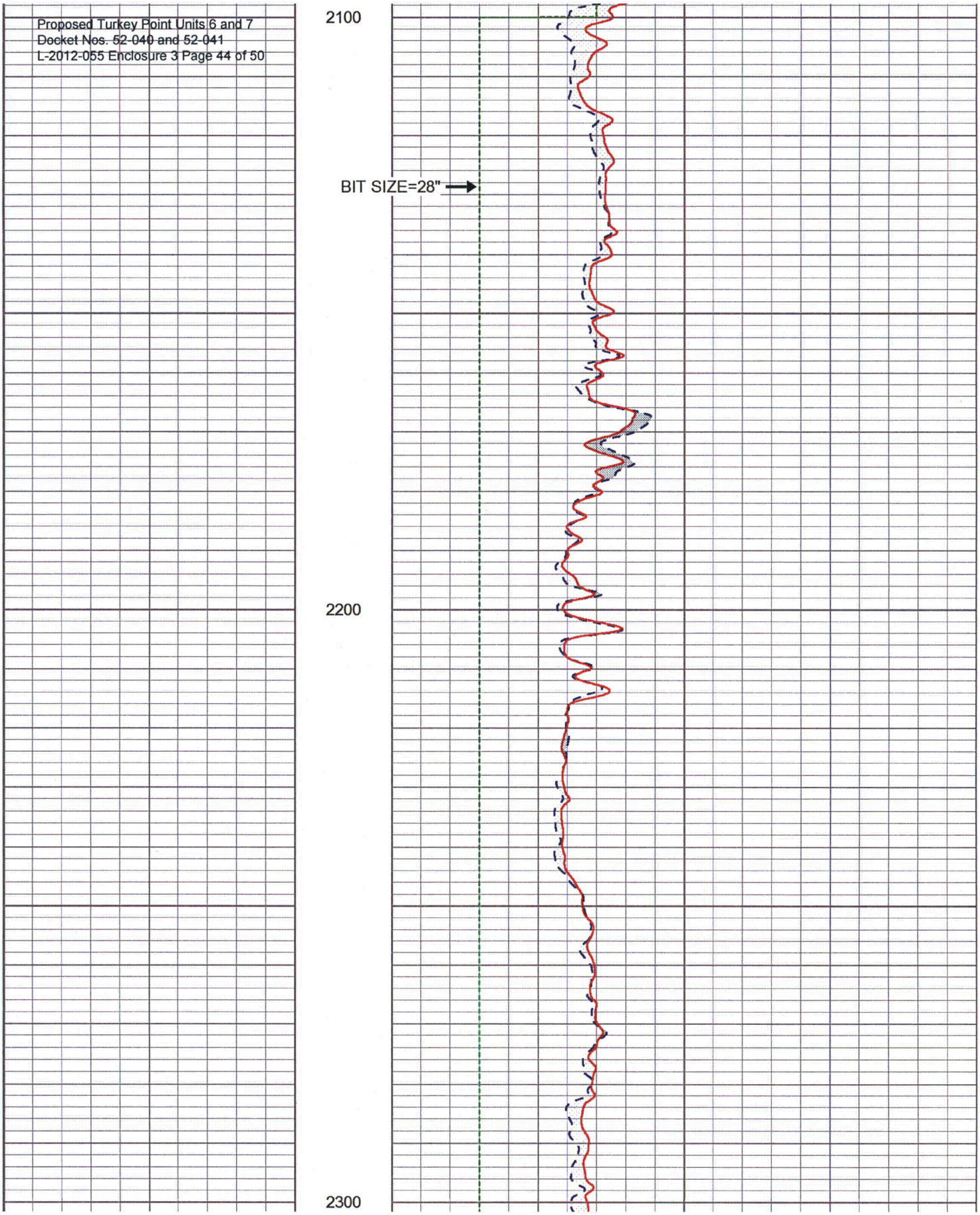
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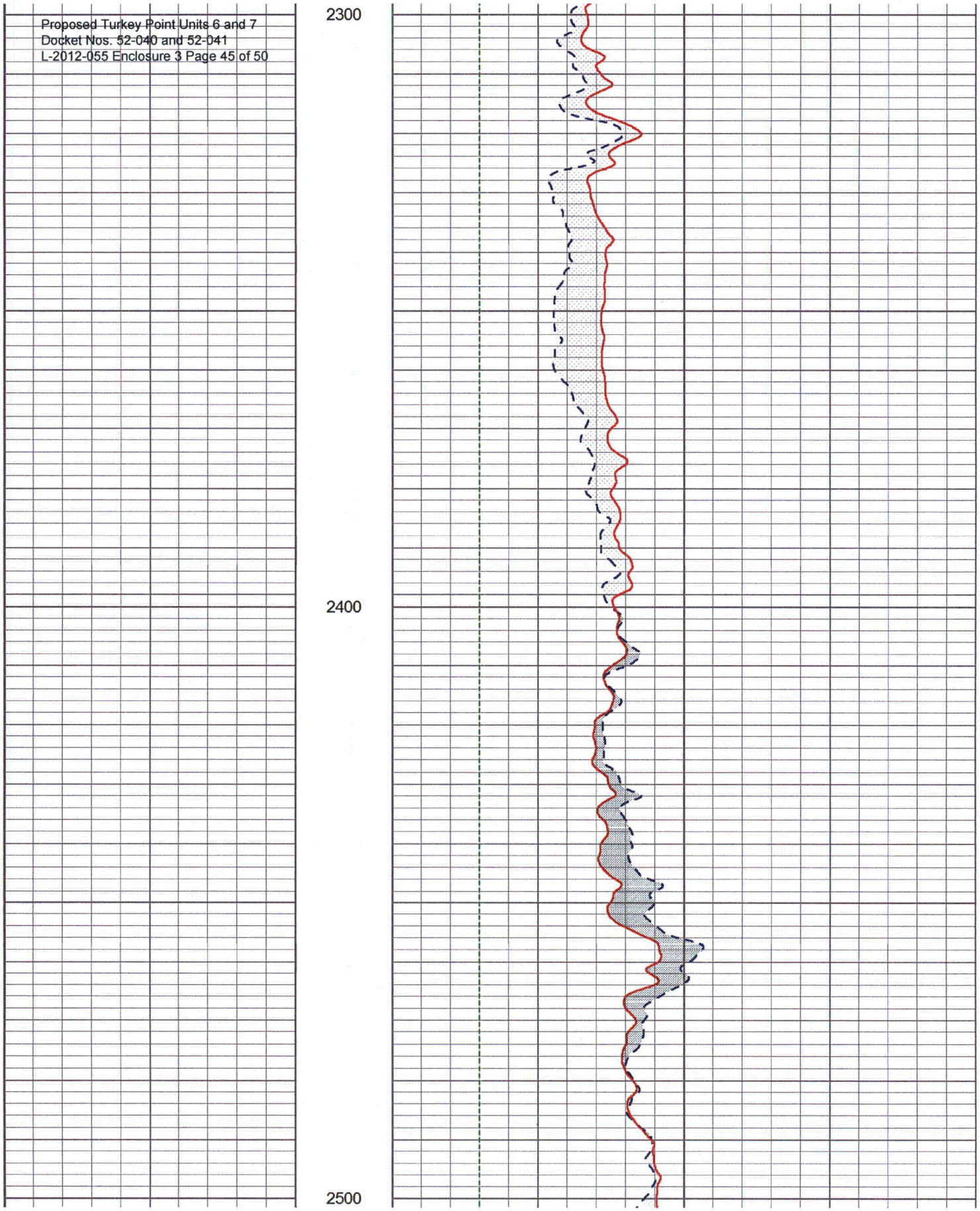
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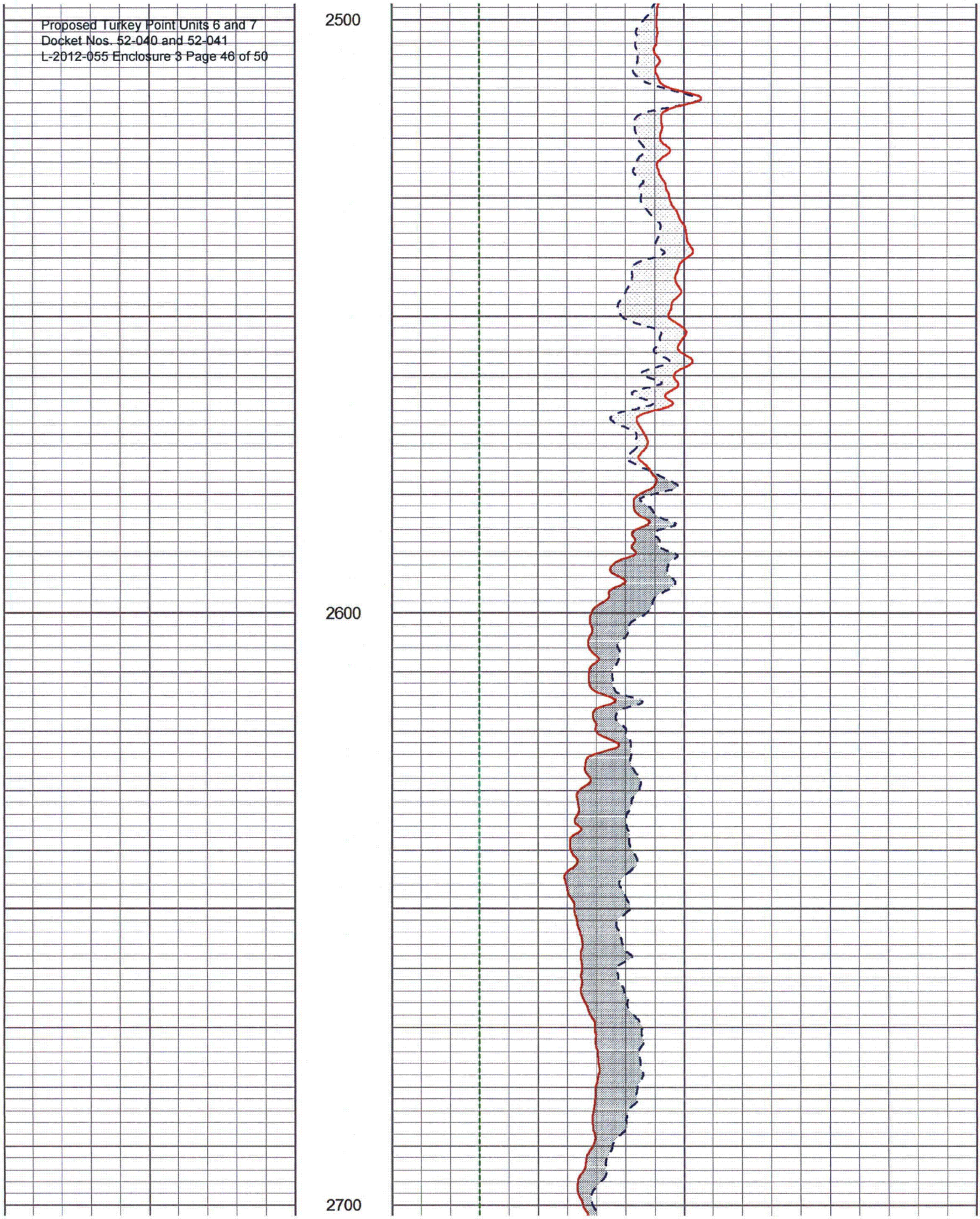
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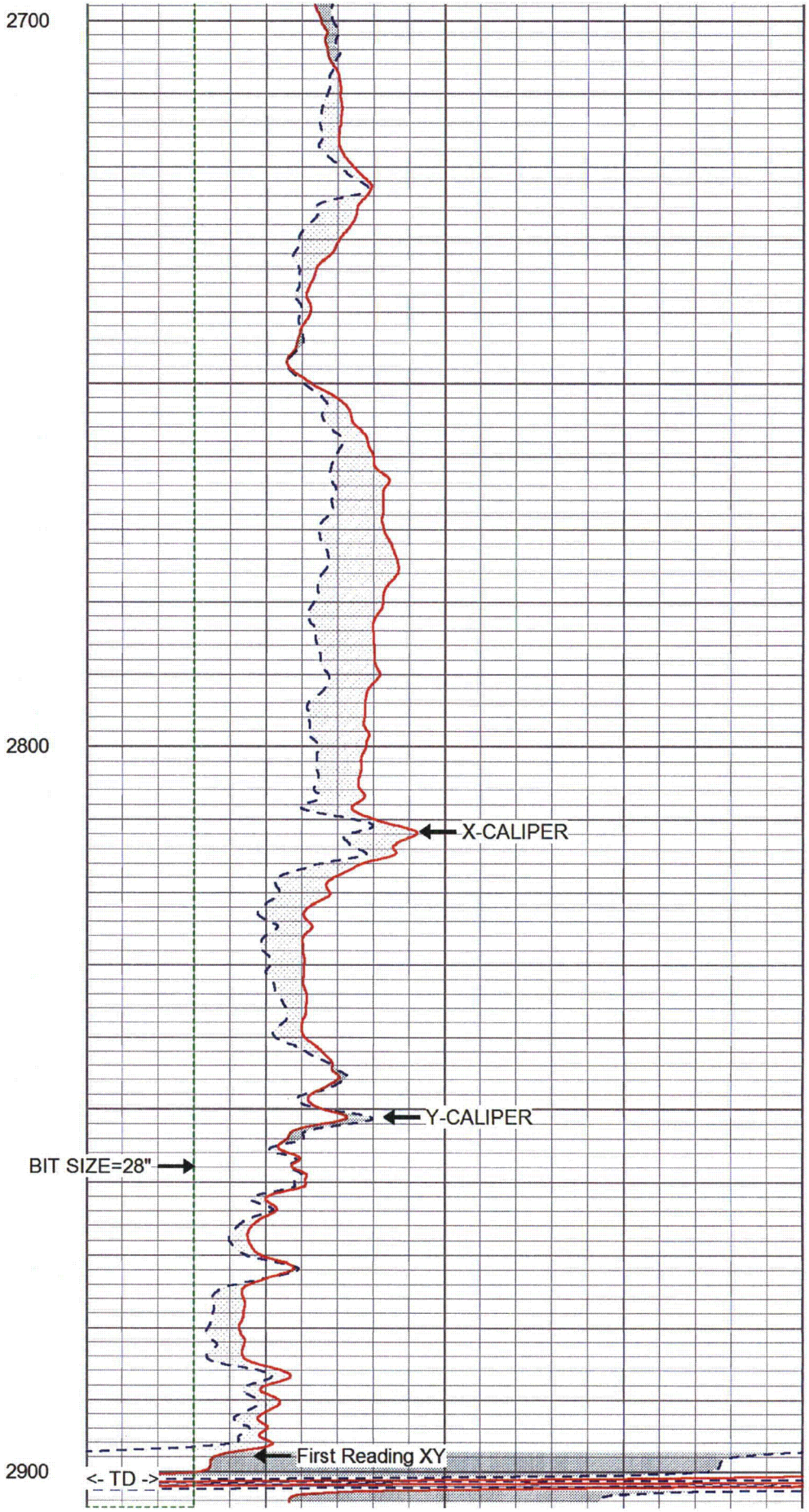
2700
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X-CALIPER
Y-CALIPER
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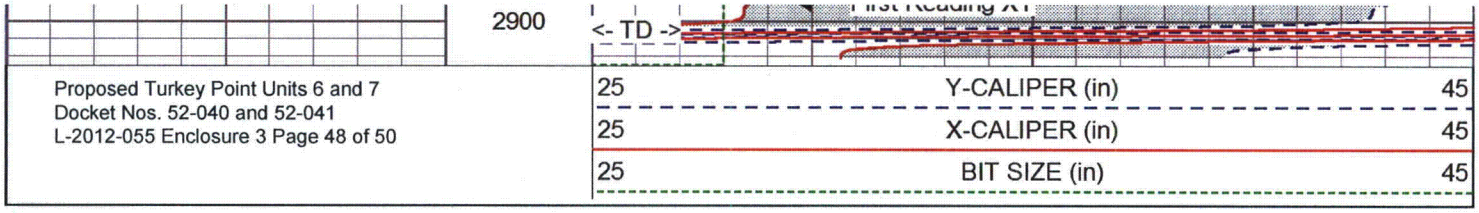
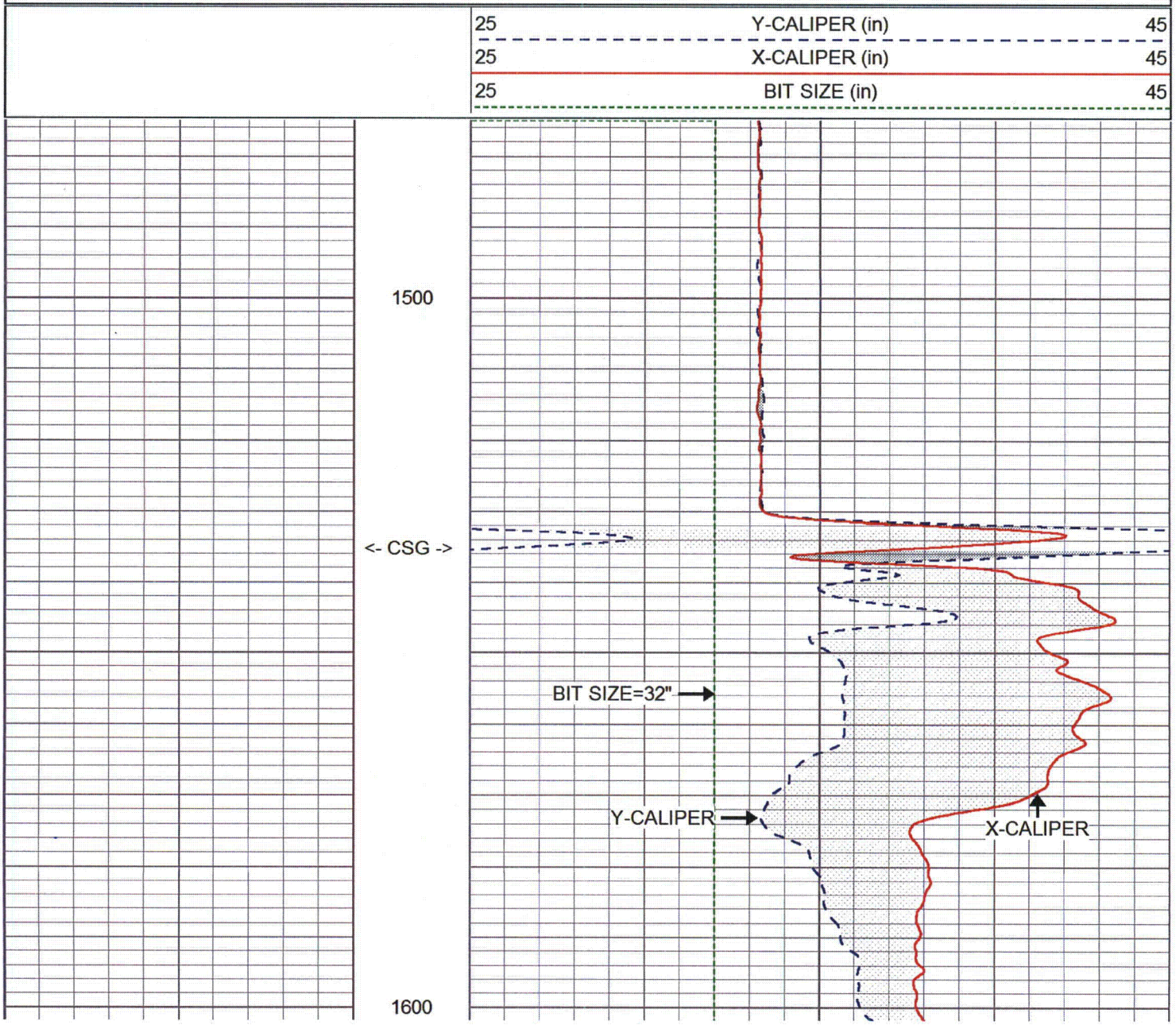
First Reading XY
<- TD ->

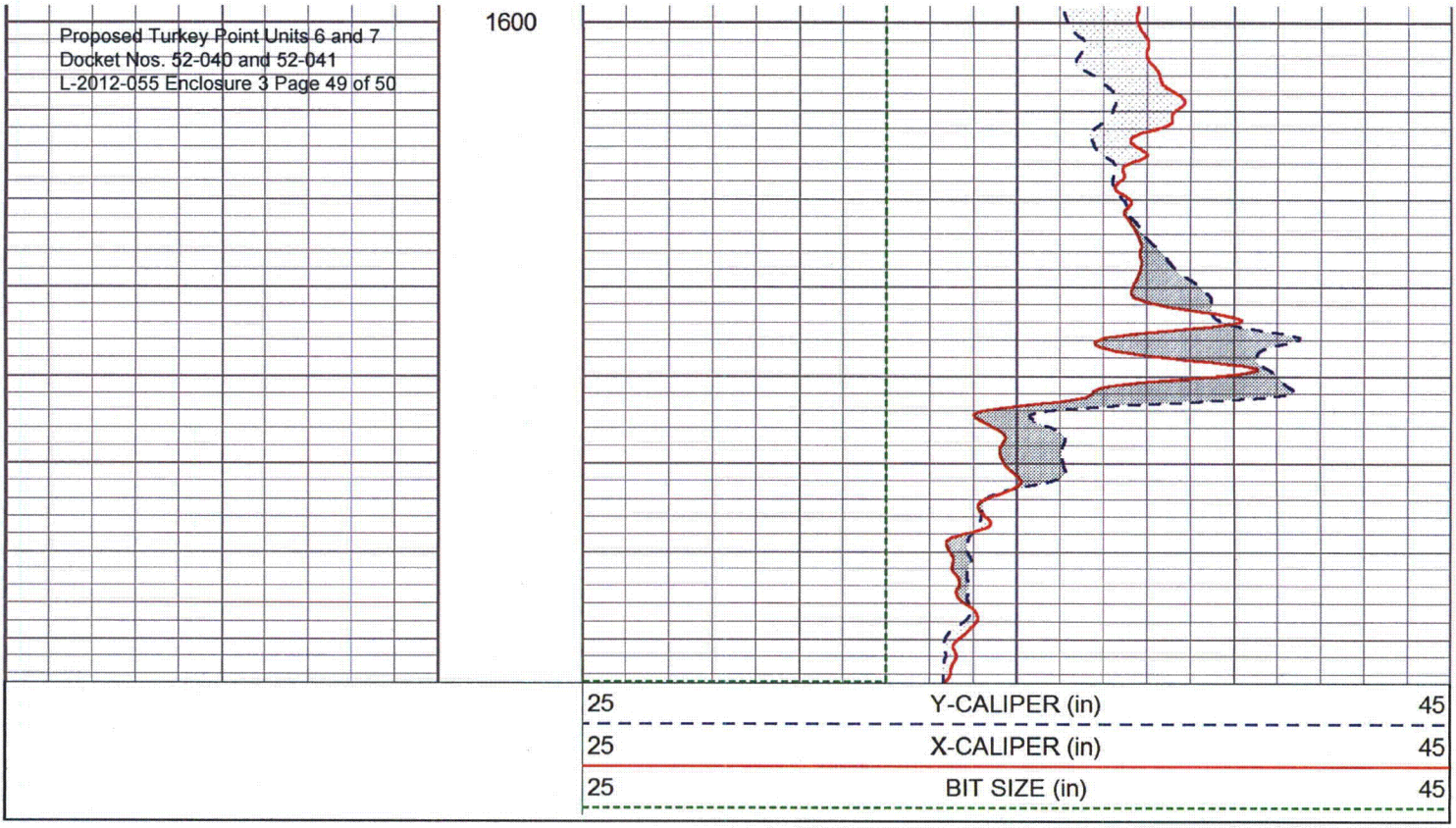


MV Geophysical

REPEAT SECTION

Database File: ltp1b.db
Dataset Pathname: run12/REPEAT
Presentation Format: xy2545-5
Dataset Creation: Tue Jan 24 15:35:56 2012
Charted by: Depth in Feet scaled 1:240





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-GROH (01)	2.75	3.50	40.00
GR	7.60					
			XYC-XYCL (01L)	6.60	3.50	87.00
XCAL	2.25					
YCAL	2.25					

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