

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

Florida Power & Light Company Turkey Point Units 6 & 7  
Exploratory Well Project; Permit #0293962-001-UC  
Weekly Construction Summary #36 dated January 13, 2012

## WEEKLY CONSTRUCTION SUMMARY



**McNabb Hydrogeologic Consulting, Inc.**

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

January 13, 2012

MHCDEP-12-0009

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 #36**

Dear Mr. May:

This is the thirty-sixth weekly construction summary for the above referenced project. The reporting period for this weekly construction summary began at 7:00 AM, Thursday, January 5, 2012 and ended at 7:00 AM, Thursday, January 12, 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 1,982 to 2,255 feet below pad level (bpl) using a 28-inch diameter drill bit in preparation for straddle packer testing intervals between 1,900 and 2,270 feet bpl.

During this reporting period, the drilling contractor reamed the interval from 2,255 to 2,270 feet bpl using a 28-inch diameter drill bit. The borehole then underwent caliper and gamma ray logging. The interval from 2,058 to 2,080 feet bpl then underwent straddle packer testing. A water sample was collected at the end of the pumping portion of straddle packer test. The straddle packer test water sample laboratory analytical reports are not yet available and will be included in the next weekly construction report. The attached table provides a summary of the packer testing data. Following completion of the straddle packer test over the interval from 2,058 to 2,080 feet bpl, the straddle packers were moved to allow straddle packer testing of the interval from 2,183 to 2,205 feet bpl. The straddle packer test was terminated due to test interval productivity during conditioning of the test zone. The straddle packers were then removed from the well and the drilling contractor resumed reaming the hole using a 28-inch diameter drill bit. The interval from 2,270 to 2,519 feet bpl had been reamed 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



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 complete reaming the hole with a 28-inch diameter drill bit to a depth of approximately 2,900 feet bpl. Straddle packer testing will then be performed on selected intervals between 1,900 and 2,900 feet bpl.

In addition, sampling of the pad monitor wells began on April 21, 2011 and has been taking place on a weekly basis since the initial sampling. The pad monitor wells were most recently sampled 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.

5/13/12  
David McNabb, P.G.

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

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**Date:** January 5, 2012  
**Project:** FPL Turkey Point EW  
**Contractor:** Layne Christensen Company  
**Starting Depth:** 2,255 feet bpl  
**Weather Day:** Partly Cloudy, Warm  
**Weather Night:** Clear, Cold  
**Activity:** Reaming

**FDEP UIC Permit #:** 0293962-001-UC  
**Well No.:** EW-1  
**Bit Diameter:** 28-inch  
**Ending Depth:** 2,270 feet bpl  
**Recorded By:** Sally Durall/Deborah Daigle

### CONSTRUCTION ACTIVITIES

- 0700 Yesterday, the drilling contractor reamed the pilot hole from a depth of 2,178 feet to 2,255 feet below pad level (bpl). The drilling contractor is currently in the process of performing a deviation survey at the depth of 2,250 feet bpl.
- 0715 The survey is complete with a deviation result of 0.3 degrees.
- 0840 The drilling contractor makes a drill pipe connection and resumes reaming the pilot hole from a depth of 2,255 feet bpl.
- 1045 The drilling contractor is reaming the pilot hole at a depth of 2,260 feet bpl.
- 1100 Florida Spectrum Environmental Services, Inc. arrives on site to perform the weekly sampling of the pad monitor wells.
- 1245 The drilling contractor is reaming the pilot hole at a depth of 2,265 feet bpl.
- 1315 The drilling contractor is reaming the pilot hole at a depth of 2,268 feet bpl.
- 1450 The drilling contractor has reached a reaming depth of 2,270 feet bpl and is circulating the borehole clean in preparation for caliper and gamma-ray logging.
- 1545 The drilling contractor begins to trip out of the borehole with the drill pipe and drilling bit. The drilling contractor plans to perform wiper trips between the depths of 2,270 feet to approximately 1,960 feet bpl to condition the borehole for geophysical logging and packer testing.
- 1710 The drilling contractor has tripped up the borehole to a depth of 1,950 feet bpl and has begun to trip back in the borehole to a depth of 2,270 feet bpl to complete the first wiper trip.
- 1830 The drilling contractor continues to trip in to the borehole.
- 2000 The drilling contractor has tripped in to the borehole to a depth of 2,270 feet bpl and will circulate until the borehole is clean.
- 2130 The drilling contractor continues to circulate the borehole clean at 2,270 feet bpl.
- 2300 The drilling contractor continues to circulate the borehole clean at 2,270 feet bpl.
- 0030 The drilling contractor begins tripping the drill bit and drill pipe out of the borehole.
- 0230 The drilling contractor continues to trip out of the borehole.
- 0330 The drilling contractor continues to trip out of the borehole.
- 0430 The drilling contractor continues to trip out of the borehole. The drilling contractor is adding salt kill to the well.



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- 0530 The drilling contractor continues to trip out of the borehole.
- 0620 The drilling bit is on the rig floor.
- 0700 The drilling contractor is currently performing site maintenance and preparing for caliper and gamma-ray logging.





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## Daily Construction Log

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**Date:** January 6, 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:** 2,270 feet bpl      **Ending Depth:** 2,270 feet bpl  
**Weather Day:** Clear, Cool      **Recorded By:** Sally Durall/Deborah Daigle  
**Weather Night:** Clear, Cool  
**Activity:** Geophysical Logging and Preparing for Packer Testing

### CONSTRUCTION ACTIVITIES

- 0700 Yesterday, the drilling contractor reamed the pilot hole from a depth of 2,255 feet to 2,270 feet below pad level (bpl), and conditioned the borehole in preparation for geophysical logging. The drilling contractor has tripped out of the hole with the drill pipe and drilling bit, and is currently preparing for caliper and gamma-ray logging of the borehole. The drilling contractor is currently performing general site maintenance. The geophysical logging subcontractor is due on site around noon today.
- 0900 The drilling contractor continues performing general site maintenance.
- 1200 The drilling contractor continues performing general site maintenance.
- 1355 All Webbs Enterprises, Inc. (geophysical logging subcontractor) has arrived on site.
- 1425 The caliper and gamma-ray logging tool is zeroed to pad level.
- 1430 Begin tripping the logging tool in the borehole.
- 1450 The logging tool tags an obstruction at the depth of 2,742 feet bpl. Begin logging caliper and gamma ray up hole.
- 1550 Complete caliper and gamma-ray logging and begin to trip out of the borehole with the logging tool.
- 1610 The logging tool is on the rig floor.
- 1800 The drilling contractor is cleaning drilled cuttings from the pit in preparation for the packer testing.
- 1900 The drilling contractor begins lowering the straddle packers into the borehole. A straddle packer test will be performed on the interval from 2,058 to 2,080 feet bpl.
- 2000 The drilling contractor continues to lower the packer assembly into the borehole.
- 2130 The drilling contractor continues to lower the packer assembly into the borehole.
- 2300 The drilling contractor continues to lower the packer assembly into the borehole.
- 0030 The drilling contractor continues to lower the packer assembly into the borehole.
- 0200 The drilling contractor continues to lower the packer assembly into the borehole.
- 0330 The drilling contractor has positioned the straddle packer assembly into the borehole and is preparing to inflate the packers.
- 0415 The drilling contractor continues inflating the packers.
- 0600 The drilling contractor has inflated the packers to 425 pounds per square inch gauge (psig).



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- 0630 The drilling contractor begins to trip inside the work pipe with the air line in preparation for air-lift developing.
- 0700 The drilling contractor has installed 185 feet of air line.





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## Daily Construction Log

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**Date:** January 7, 2012  
**Project:** FPL Turkey Point EW  
**Contractor:** Layne Christensen Company  
**Starting Depth:** 2,270 feet bpl  
**Weather Day:** Clear, Cool to Warm  
**Weather Night:** Clear, Cool  
**Activity:** Preparing for Packer Testing

**FDEP UIC Permit #:** 0293962-001-UC  
**Well No.:** EW-1  
**Bit Diameter:** 28-inch  
**Ending Depth:** 2,270 feet bpl  
**Recorded By:** Sally Durall/Deborah Daigle

### CONSTRUCTION ACTIVITIES

- 0700 Yesterday, the drilling contractor performed caliper and gamma-ray logging on the borehole to a depth of 2,742 feet below pad level (bpl). The drilling contractor tripped in the borehole with the straddle packers during the night shift. The drilling contractor is currently preparing to condition the straddle packer test interval of 2,058 to 2,080 feet bpl.
- 0720 Begin conditioning the test interval.
- 0830 The fluid production rate is estimated (based on measurements from the slurry pit) at 10 gallons per minute (gpm).
- 1030 Test interval conditioning continues at an estimated rate of approximately 7 gpm.
- 1245 Test interval conditioning continues at an estimated rate of approximately 10 gpm. The drilling contractor has developed approximately 1 drill pipe volume from the test interval.
- 1415 Test interval conditioning continues at an estimated rate of 7 gpm.
- 1550 Test interval conditioning continues at an estimated rate of 6.5 gpm.
- 1740 Test interval conditioning continues at an estimated rate of 8 gpm.
- 1900 Test interval conditioning continues at an estimated rate of 10.5 gpm.
- 2100 Test interval conditioning continues at an estimated rate of 7 gpm.
- 2330 Test interval conditioning continues at an estimated rate of 8 gpm.
- 0130 Test interval conditioning continues at an estimated rate 6 gpm.
- 0300 Test interval conditioning continues at an estimated rate 7.5 gpm.
- 0555 Test interval conditioning has been stopped after removing approximately three pipe volumes.
- 0640 The drilling contractor tallies the drop pipe and the pump intake, and begins to trip in the hole with the pump and transducer. The bottom of the transducer is installed 10 feet above the pump intake.
- 0700 The drilling contractor continues the installation of the pump and transducer.



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## Daily Construction Log

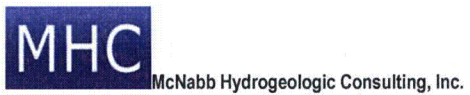
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**Date:** January 8, 2012  
**Project:** FPL Turkey Point EW  
**Contractor:** Layne Christensen Company  
**Starting Depth:** 2,270 feet bpl  
**Weather Day:** Clear, Warm  
**Weather Night:** Clear, Cool  
**Activity:** Packer Testing

**FDEP UIC Permit #:** 0293962-001-UC  
**Well No.:** EW-1  
**Bit Diameter:** 28-inch  
**Ending Depth:** 2,270 feet bpl  
**Recorded By:** Sally Durall/Deborah Daigle

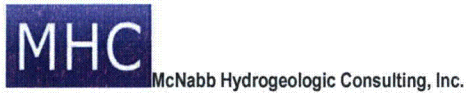
### CONSTRUCTION ACTIVITIES

- 0700 Yesterday, the drilling contractor began conditioning the straddle packer test interval of 2,058 to 2,080 feet below pad level (bpl). The drilling contractor is currently installing the transducer and pump inside the drill pipe in preparation for the pumping portion of the straddle packer test.
- 0720 The drilling contractor completes the installation of the pump and transducer. The pump has been installed to a depth of 180.7 feet bpl and the transducer has been installed to a depth of 170.7 feet bpl or 181.28 feet below the measuring port.
- 0740 Begin the preliminary pump test to establish a pumping rate.
- 0805 The pumping rate is established at a rate of 5.3 gallons per minute (gpm). The pump is shut off and the drilling contractor begins collecting background recovery data.
- 0905 The water level has recovered to a depth of 159 feet above the transducer.
- 1015 The water level has recovered to a depth of 169 feet above the transducer.
- 1140 The static water level is 170.16 feet above the transducer or 0.54 feet bpl. Begin the pumping portion of packer test No. 9. The initial pumping rate is 6.2 gpm.
- 1150 The pumping rate has decreased to 5.5 gpm.
- 1220 The pumping rate has decreased to 4.9 gpm.
- 1340 The pumping rate has decreased to 4.8 gpm.
- 1440 The pumping rate is 4.7 gpm and has stabilized. The drawdown is approximately 100 feet.
- 1600 The pumping rate continues at 4.7 gpm. The drawdown remains at approximately 100 feet.
- 1730 The water level is beginning to rise, but appears to be stabilizing at approximately 98 feet of drawdown.
- 1900 The pumping portion of the straddle packer test continues at a rate of 4.8 gpm.
- 2100 The pumping portion of the straddle packer test continues at a rate of 4.9 gpm.
- 2200 The pumping portion of the straddle packer test is discontinued after one pipe volume was removed. The recovery portion of the test is initiated.
- 0000 The recovery portion of the straddle packer test is completed. The drilling contractor will begin to bleed off the packers.
- 0200 The drilling contractor continues to bleed off the packers.



- 0430 The drilling contractor has deflated the packers and preparing to move the packers to the next depth interval of 2,183 to 2,205.
- 0500 The drilling contractor begins to relocate the straddle packers to the next depth interval for the next straddle packer test.
- 0700 The drilling contractor continues to relocate the straddle packers for the next straddle packer test.





## Daily Construction Log

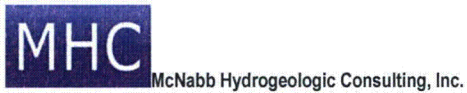
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**Date:** January 9, 2012  
**Project:** FPL Turkey Point EW  
**Contractor:** Layne Christensen Company  
**Starting Depth:** 2,270 feet bpl  
**Weather Day:** Partly Cloudy, Warm  
**Weather Night:** Partly Cloudy, Mild  
**Activity:** Preparation for Packer Testing

**FDEP UIC Permit #:** 0293962-001-UC  
**Well No.:** EW-1  
**Bit Diameter:** 28-inch  
**Ending Depth:** 2,270 feet bpl  
**Recorded By:** Sally Durall/Marty Clasen

### CONSTRUCTION ACTIVITIES

- 0700 Yesterday, the drilling contractor completed a straddle packer test over the interval from 2,058 feet to 2,080 feet below pad level (bpl). The drilling contractor is currently relocating the straddle packers to the test the interval from 2,183 feet to 2,205 feet bpl.
- 0830 The drilling contractor is killing the well with salt.
- 0855 The drilling contractor has killed the backside and resumes relocating the straddle packers to the test interval.
- 1030 The straddle packers are positioned to test the interval from 2,183 to 2,205 feet bpl and the drilling contractor is preparing to inflate the packers.
- 1045 The drilling contractor begins to inflate the packers.
- 1145 The packers have been inflated to approximately 425 pounds per square inch (psi). The drilling contractor will wait approximately 1 hour to assure the packers maintain pressure.
- 1255 The packers have maintained pressure at 425 psi. The drilling contractor begins to trip inside the drill pipe with the air line in preparation for conditioning the test interval.
- 1415 The drilling contractor begins conditioning the test interval.
- 1420 The test interval is productive. The flow rate is estimated to be greater than 50 gallons per minute (gpm). The drilling contractor stops conditioning the test interval.
- 1500 The straddle packer test is abandoned due to productivity of the test interval. The drilling contractor will trip out of the borehole with the packers, and then trip in the borehole with the 28-inch diameter bit to begin reaming from a depth of 2,270 feet bpl.
- 1510 The drilling contractor begins to trip out of the drill pipe with the air line.
- 1540 The air line is out of the drill pipe and the drilling contractor begins to bleed off the packers.
- 1700 The drilling contractor continues bleeding off the packers.
- 1900 The drilling contractor continues bleeding off the packers.
- 1930 The drilling contractor is tripping out the drill pipe and packer assembly.
- 2130 The drilling contractor continues to trip out the drill pipe.
- 2330 The drilling contractor continues to trip out the drill pipe.
- 0130 The drilling contractor completed tripping the drill pipe and packer assembly out of the hole.



- 0200 The drilling contractor is preparing to trip in the hole with the 28-inch diameter reamer bit. The borehole will be reamed from a depth of 2,270 feet bpl to 2,900 feet bpl.
- 0400 The drilling contractor continues to prepare the 28-inch reamer bit and assembly to trip in the hole.
- 0530 The drilling contractor is tripping in the 28-inch diameter reamer bit.
- 0700 The drilling contractor continues to trip in the hole with the reamer bit.





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## Daily Construction Log

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**Date:** January 10, 2012  
**Project:** FPL Turkey Point EW  
**Contractor:** Layne Christensen Company  
**Starting Depth:** 2,270 feet bpl  
**Weather Day:** Clear, Warm  
**Weather Night:** Clear, Mild  
**Activity:** Reaming

**FDEP UIC Permit #:** 0293962-001-UC  
**Well No.:** EW-1  
**Bit Diameter:** 28-inch  
**Ending Depth:** 2,377 feet bpl  
**Recorded By:** Sally Durall/Marty Clasen

### CONSTRUCTION ACTIVITIES

- 0700 Yesterday, the drilling contractor began to condition the straddle packer test interval of 2,183 feet to 2,205 feet below pad level (bpl). The packer test was terminated due to test interval productivity. The straddle packers have been tripped out of the borehole, and the drilling contractor is currently tripping in the borehole with the 28-inch diameter reamer bit to resume reaming the pilot hole from a depth of 2,270 feet bpl.
- 0900 The drilling contractor continues to trip in the borehole with the reamer bit.
- 1005 The drilling contractor trips the reamer bit to a depth of 2,270 feet bpl and resumes reaming the pilot hole.
- 1120 The drilling contractor is reaming the pilot hole at a depth of 2,275 feet bpl.
- 1300 The drilling contractor is reaming the pilot hole at a depth of 2,281 feet bpl.
- 1430 The drilling contractor is reaming the pilot hole at a depth of 2,291 feet bpl.
- 1555 The kelly is down at a depth of 2,300 feet bpl and the drilling contractor is circulating the borehole clean.
- 1630 The drilling contractor makes a drill pipe connection and resumes reaming from the depth of 2,300 feet bpl.
- 1800 The drilling contractor is reaming the pilot hole at a depth of 2,310 feet bpl.
- 1900 The drilling contractor is reaming the pilot hole at a depth of 2,318 feet bpl.
- 2000 The drilling contractor is reaming the pilot hole at a depth of 2,324 feet bpl.
- 2100 The drilling contractor is reaming the pilot hole at a depth of 2,328 feet bpl.
- 2200 The drilling contractor is reaming the pilot hole at a depth of 2,334 feet bpl.
- 2300 The drilling contractor is reaming the pilot hole at a depth of 2,339 feet bpl.
- 0000 The drilling contractor is reaming the pilot hole at a depth of 2,346 feet bpl. The drilling contractor conducted deviation survey at a depth of 2,310 feet bpl. The borehole deviation is 0.0 degrees.
- 0200 The drilling contractor is reaming the pilot hole at a depth of 2,349 feet bpl.
- 0300 The drilling contractor is reaming the pilot hole at a depth of 2,356 feet bpl.
- 0400 The drilling contractor is reaming the pilot hole at a depth of 2,363 feet bpl.
- 0500 The drilling contractor is reaming the pilot hole at a depth of 2,367 feet bpl.
- 0600 The drilling contractor is reaming the pilot hole at a depth of 2,375 feet bpl.
- 0700 The drilling contractor is reaming the pilot hole at a depth of 2,377 feet bpl.



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## Daily Construction Log

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**Date:** January 11, 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:** 2,377 feet bpl              **Ending Depth:** 2,519 feet bpl  
**Weather Day:** Cloudy, Windy, Warm      **Recorded By:** Sally Durall/Marty Clasen  
**Weather Night:** Clear, Windy, Cool  
**Activity:** Reaming

### CONSTRUCTION ACTIVITIES

- 0700 Yesterday, the drilling contractor reamed the pilot hole from the depths of 2,270 feet to 2,377 feet below pad level (bpl).
- 0800 The drilling contractor is currently reaming the pilot hole at a depth of 2,386 feet bpl.
- 0845 The kelly is down at the depth of 2,390 feet bpl. The drilling contractor is circulating the borehole clean in preparation for a deviation survey.
- 0935 The drilling contractor trips inside the drill pipe with the deviation survey tool to a depth of 2,370 feet bpl.
- 1000 The deviation survey is complete and the survey result is 0.3 degrees.
- 1010 The drilling contractor makes a drill pipe connection and resumes reaming the pilot hole from the depth of 2,390 feet bpl.
- 1120 The drilling contractor is reaming the pilot hole at a depth of 2,399 feet bpl.
- 1240 The drilling contractor is reaming the pilot hole at a depth of 2,409 feet bpl.
- 1330 The drilling contractor is reaming the pilot hole at a depth of 2,415 feet bpl.
- 1455 The drilling contractor is reaming the pilot hole at a depth of 2,425 feet bpl.
- 1630 The kelly is down at a depth of 2,435 feet bpl. The drilling contractor is circulating the borehole clean in preparation for a deviation survey.
- 1655 The drilling contractor trips inside the drill pipe with the deviation survey tool to a depth of 2,430 feet bpl.
- 1720 The deviation survey is complete and the survey result is 0.1 degrees.
- 1745 The drilling contractor makes a drill pipe connection and resumes reaming the pilot hole from the depth of 2,435 feet bpl.
- 1830 The drilling contractor is reaming the pilot hole at a depth of 2,441 feet bpl.
- 1945 The drilling contractor is reaming the pilot hole at a depth of 2,449 feet bpl.
- 2100 The drilling contractor is reaming the pilot hole at a depth of 2,458 feet bpl.
- 2200 The drilling contractor is reaming the pilot hole at a depth of 2,466 feet bpl.
- 2300 The drilling contractor is reaming the pilot hole at a depth of 2,473 feet bpl.
- 0000 The drilling contractor is reaming the pilot hole at a depth of 2,479 feet bpl.
- 0100 The kelly is down at a depth of 2,480 feet bpl. The drilling contractor makes a drill pipe connection.
- 0200 The drilling contractor is reaming the pilot hole at a depth of 2,487 feet bpl.



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- 0300 The drilling contractor is reaming the pilot hole at a depth of 2,495 feet bpl.
- 0400 The drilling contractor is reaming the pilot hole at a depth of 2,501 feet bpl.
- 0500 The drilling contractor is reaming the pilot hole at a depth of 2,508 feet bpl.
- 0700 The drilling contractor is reaming the pilot hole at a depth of 2,519 feet bpl.





LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT FPL  
JOB SITE NAME EW-1

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DATE 1-5-2012  
Thurs. Days

JOB # 11771  
JOB SITE LOCATION Turkey Point

PERSONNEL EMPLOYED TODAY

Table with columns: Crew Assignment, Employee - Full Name, Per Diem?, Onsite Hours, Offsite Hours, Total Hours. Rows include Michael A. Ramirez, Juan Nieto, James McDonnell, Bob Feetham.

EQUIPMENT DEPLOYED TODAY

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

DAILY ACCOUNTING UP ACTIVITIES BY ITEM#

Large table with columns: Item#, Cost Code, Labor Activity, Hours. Lists various activities like 'Install Roadway & Drill Pad', 'Production Well Installation', etc.

MATERIALS USED TODAY

Table with columns: Quantity, Description. Includes 'Safety Meetings', 'Slingsafety', 'Handling Gas Cylinders', 'PPE, welder safety, Pinch points, water safety, slip/trip/falls'.

TIME OF ACTIVITY BY ITEM#

Table with columns: From, To, Circle On, Item #. Shows time intervals for various activities.

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

Run Survey @ 2250' bpl got 3" Make connection run in one stand. Continue drilling from 2255' bpl to 2270' with 28" bit. Repaired silt fence. Made new water barrel for cementing. Wide Trip out of Hole 4 stands, WITH 4 stands back to bottom. Trip out of Hole.

M. Ramirez

1/5/2012

Client's Signature

PAYROLL

Date

Supervisor's Signature

Date





# LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT

F.P.I.L

Proposed Turkey Point Units 6 and 7

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DATE

01-05-12  
THIRD NIGHT

JOB #

11771

JOBSITE NAME

EW-1

POCKET LOCATION

T.P.

## PERSONNEL EMPLOYED TODAY

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

## EQUIPMENT DEPLOYED TODAY

Description		Unit #	Status
Working	WK	Mobilization	MD
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	Log Hole Drilling	
15	12100	Geophysical Logging & Other Testing	
16	12150	Aquifer Zone Testing	
17	12200	Wellbore Abandonment	
18	13050	Production Well Installation	
19	11100	Install Conductor Pipe	
20	11150	Drill Plot Hole	
21	12200	Geophysical Logging & Other Testing	
22	12250	Aquifer Zone Testing	
23	13300	Wellbore Abandonment/Cement Plugs	
24	13350	Flaring	
25	13400	Under Roaming	
26	13450	Install Casing	
27	13500	Install Screen	
28	13550	Gravel Pack The Well	
29	13600	Install Annular Seal	
30	13650	Water Watching	
31	14050	Well Development Jet Bit and Swab	
32	14100	Disposal of Barrels and Cuttings	
33	14150	Furnish & Install Test Pump and Discharge	
34	14200	Development Pumping	
35	14250	Test Pumping	
36	14300	Disinfection and Chelation	
37	18050	Offsite Activities Mob/Demob	
38	19100	Shop	
39	19150	Helmets and Tool	
40	19550	Other Accessories and by	
41	19600	Brushing for Lost/Broken Tooling	
42	19650	Change Order Activities	
43	90000	Equipment Repairs	
44	90170	Damages	
45	90200	Job Superintendent	
		Lunch	
TOTAL HOURS			

## MATERIALS USED TODAY

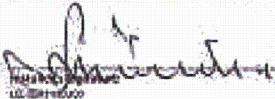
Quantity	Description
	SAFETY, MTC!
①	T.O.H. 28" BIT + STABILIZER!
②	PINCH POINT: HAND SAFETY!
	RPE: H.I.R.A. LOADER SAFETY!

## TIME OF ACTIVITY BY ITEM #

From	To	Order	Item #
		AM PM	
		AM PM	
		AM PM	
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		AM PM	
		AM PM	
		AM PM	

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

T.I.H. BACK TO BOTTOM: CIRCULATING HOLE: TEST PACKER  
PRESS PACKER: START T.O.H 28" BIT + STABILIZER;  
Kill BACK SIDE ④ BAG SALT!

  
Client's Signature

1-5-12  
Date

PAYROLL

  
Supervisor's Signature

Date





LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT FPL Proposed Turkey Point Units 6 and 7  
 Docket Nos. 52-040 and 52-041  
 L-2012-035 Enclosure 3 Page 18 of 55

DATE 1-6-2012  
Friday Day

JOB # 11771  
 JOBSITE LOCATION Turkey Point

PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
<u>DRILL MR</u>	<u>Michael A. Ramirez</u>	X	12		12
<u>JN</u>	<u>Juan Nieto</u>	X	12		12
<u>JM</u>	<u>James McDonnell</u>	X	12		12
<u>JY</u>	<u>Justin Yeomans</u>	X	8		8

EQUIPMENT DEPLOYED TODAY

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

DAILY ACCOUNTING OF ACTIVITIES BY ITEM #

Item #	Cost Code	Labor Activity	Hours
1	10000	Short Duration Job	
2	11100	Onsite Mob/Demob	
3	11150	Job Preparation	
4	11200	Safety Meeting	
5	0005	Training - Overhead	
6	0006	Shop - Overhead	
7	0007	Maintenance - Overhead	
8	11250	Training - Job Chargeable	
9	11300	Site Clean up	
10	11350	Install Sound Walk	
11	11400	Install Decon Pad	
12	11450	Install Surface Coating	
13	11500	Install Roadway & Drill Pad	
14	12050	Test Hole Drilling	
15	13100	Geophysical Logging & Other Testing	
16	13150	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			
<b>TOTAL HOURS</b>			

MATERIALS USED TODAY

Quantity	Description
	<u>Safety Meetings</u>
	<u>1) Flammables &amp; Solvents</u>
	<u>2) Logging</u>
	<u>DUMP TRUCKS! (3)</u>
	<u>broken glass, slip-trip-fall, arc welding, torch,</u>
	<u>PPE, excavator,</u>

TIME OF ACTIVITY BY ITEM #

From	To	Clock On	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

Clean off floor, Help welder, Help install Drill Cab window  
Pump off ~~working~~ Pit Slurry Pit, Help Mi-Swaco & Clay. Help  
Run Log. Run Dump Trucks 3 trucks.

M. Ramirez  
 Initiator's Signature

1/6/12  
 Date

Client's Signature

PAYROLL

Date

Supervisor's Signature

[Signature]  
 Date





LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT F.P.L. Proposed Turkey Point Units 6 and 7  
Docket Nos. 52-040 and 52-041  
JOB SITE NAME EW-1 L-2012-035 Enclosure 3 Page 19 of 55

DATE 01-06-2012  
FRI NIGHT.

JOB # 11771

JOB SITE 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
V.I	VLAD ISHIMOV	X	12		12
A.B	AKMAI BURIKHONOV	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 & Dr# 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/Comment Plugs	
24	13350	Reaming	
25	13400	Under Reaming	
26	13450	Install Casing	
27	13500	Install Screen	
28	13550	Gravel Pack The Well	
29	13600	Install Annular Seal	
30	13650	Water Watching	
31	14050	Well Development Air Lift and Swab	
32	14100	Disposal of Fluids & Cuttings	
33	14150	Furnish & Install Test Pump and Discharge	
34	14200	Development Pumping	
35	14250	Test Pumping	
36	14300	Disinfection and Chlorination	
37	19050	Offsite Activities Mob/Demob	
38	19100	Shop	
39	19150	Administration	
40	19550	Other Activities Standby	
41	19600	Fishing for Lost/Broken Tooling	
42	19650	Change Order Activities	
43	88000	Equipment Repairs	
44	90170	Damages	
45	90200	Job Superintendent	
Lunch			
TOTAL HOURS			

MATERIALS USED TODAY

Quantity	Description
	SAFETY MTC:
①	Spill REPORTING PROCEDURES:
②	MATERIALS HANDLING:
	HAND SAFETY; PINCH POINT; LOADER SAFETY:
	TOTAL WEIGHT (95.K)

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	

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

T.I.H: 24" PACKER: 2058 to 2080: 22 STD, DP + 45' + 30'; PRESS PACKER 425 PSE; PUMP OFF SLURRY PIT;

Client's Signature

Date: 1-6-12

PAYROLL

Supervisor's Signature

Date





LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT FPL Proposed Turkey Point Units 6 and 7  
 Docket Nos. 52-040 and 52-041  
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DATE 1-7-2012  
SAT. Day

JOB # 11771  
 JOBSITE LOCATION Turkey Point

PERSONNEL EMPLOYED TODAY

Site Assignment	Employee - Full Name	Site Class (H)	Change Team	Regular Hours	Total Hours
<u>Drill MR</u>	<u>Michael A. Ramirez</u>	<u>X</u>	<u>12</u>		<u>12</u>
<u>ON</u>	<u>Juan Nieto</u>	<u>X</u>	<u>12</u>		<u>12</u>
<u>Pay</u>	<u>James McDonnell</u>	<u>X</u>	<u>12</u>		<u>12</u>
<u>Pay</u>	<u>Justin Yeomans</u>	<u>X</u>	<u>12</u>		<u>12</u>

EQUIPMENT DEPLOYED TODAY

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

DAI (Daily Accounting) OF ACTIVITIES BY ITEM #

Item #	Cost Code	Job Activity	Hours
1	3000	Short Duration Job	
2	1110	Constr. Mobilization	
3	1115	Job Preparation	
4	1120	Safety Meeting	
5	1000	Training - Overhead	
6	1005	Setup - Overhead	
7	1007	Standards - Overhead	
8	1025	Training - Job Change/Job	
9	1030	Site Cleanup	
10	1035	Install Guard Walk	
11	1040	Install Access Path	
12	1045	Install Site Enclosure	
13	1050	Install Roadway & Drill Pad	
14	1055	Final Site Grading	
15	1060	Geophysical Logging & Other Testing	
16	1065	Apparatus Testing	
17	1070	Mudlogging - Blanketing	
18	1075	Preparation and Installation	
19	1080	Install Conductor Pipe	
20	1085	Drill Pipe Installation	
21	1090	Geophysical Logging & Other Testing	
22	1095	Apparatus Testing	
23	1100	Standards Blanketing/Control Plans	
24	1105	Blanketing	
25	1110	Driller Training	
26	1115	Install Casing	
27	1120	Install Cement	
28	1125	Install Backhoe Well	
29	1130	Install Annular Seal	
30	1135	Water Washing	
31	1140	Well Development Air Lift and Swab	
32	1145	Disposal of Fluids & Cuttings	
33	1150	Furnish & Install Test Pump and Discharge	
34	1155	Construction Pumping	
35	1160	Test Pumping	
36	1165	Hydration and Chlorination	
37	1002	Drill Rig - Mobilization	
38	1010	Setup	
39	1015	Accessories	
40	1020	Drill Rig - Standby	
41	1030	Fishing for Lost/Broken Tooling	
42	1040	Change Order Activation	
43	1050	Equipment Repair	
44	1011	Drill Rig	
45	1012	Job Supervision	
46	1013	Travel	
TOTAL HOURS			

MATERIALS USED TODAY

Quantity	Description
	<u>Safety Meetings</u>
	<u>1) House Keeping</u>
	<u>2) Packer Testing</u>
	<u>PPE, loader safety, electrical safety, oil spill prevention, pinch points, crane equipment safety.</u>

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

T.I.H. 35th Airline Start Air develop. Clean/organize change house & parts house. Empty all trash. Grade level dirt by truck hoard and painted welder housing & survey tool wire guide. greased Crown & Con Rig

M. Ramirez

Installer's Signature

Date

Client's Signature

PAYROLL

Date

Supervisor's Signature

[Signature]

Date





LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT FPL Proposed Turkey Point Units 6 and 7  
 Docket Nos. 52-040 and 52-041  
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 JOBSITE NAME EW-1

DATE 1/7/12  
SAT. NIGHT

JOB # 11771  
 JOBSITE LOCATION T.P.

PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee - Full Name	Per Class (H)	Onsite Hours	Offsite Hours	Total Hours
DRILLER	DANNY KEELEY	X	14		14
	DAN YOUNG SR	X	14		14
	BOB FEETHAM	X	14		14
	VLAD ISHTIMOV	X	14		14
A.P.	ANDREY POPOV	X	14		14

EQUIPMENT DEPLOYED TODAY

Description		Unit #	Status

DAILY ACCOUNTING OF ACTIVITIES BY ITEM #

Item #	Cost Code	Labor Activity	Hours
1	1000	Short Duration Job	
2	1100	Onsite Mobilization	
3	1150	Job Preparation	
4	1120	Safety Meeting	
5	0005	Drilling - Overhead	
6	0006	Shovel - 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	Field Hole Drilling	
15	12100	Geophysical Logging & Other Testing	
16	12150	Aquifer Zone Testing	
17	12200	Overhead Abandonment	
18	13050	Production Well Installation	
19	13100	Install Conductor Pipe	
20	13150	Drill Bit at Hole	
21	13200	Geophysical Logging & Other Testing	
22	13250	Aquifer Zone Testing	
23	13300	Overhead Abandonment / Cement Plug	
24	13350	Cementing	
25	13400	Under Reaming	
26	13450	Install Casing	
27	13500	Install Screen	
28	13550	Gravel Pack to Well	
29	13600	Install Annular Seal	
30	13650	Water Well casing	
31	14050	Well Development Air Lift and Swab	
32	14100	Specialty Tools & Casing	
33	14150	Furnish & Install Test Pump and Discharge	
34	14200	Development Pumping	
35	14250	Well Pumping	
36	14300	Disinfection and Chlorination	
37	19050	Off to Activities Mobilization/Demobilization	
38	19100	Shop	
39	19150	Administration	
40	19550	Other Activities Standby	
41	19600	Waiting for Loss / 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
	<b>SAFETY MEETINGS:</b>
	<b>#1 PACKER TESTING</b>
	<b>#2 BLOOD BORNE PATHOGENS</b>
	<b>PPE, GRINDER SAFETY, PINCH POINTS</b>
	<b>COLD STRESS.</b>

TIME OF ACTIVITY BY ITEM #

From	To	Circle One	Item #

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

PACKER TEST AIR DEVELOP UNTIL 5:55 AM  
 TOOK WITH AIRLINE  
 CLEAN OFFICE (DOG HOUSES) - BUILD SHAFT FOR HANDRAILS





LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT FPL Proposed Turkey Point Units 6 and 7  
 Docket Nos. 52-040 and 52-041  
 L-2012-035 Enclosure 3 Page 22 of 55

DATE 1/8/2012  
Sun. Day

JOB # 11771  
 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	12		12
JN	Juan Nieto	X	12		12
JM	James McDonnell	X	12		12
JY	Justin Yeomans	X	12		12
VM	Victor Moishev	X	12		12

EQUIPMENT DEPLOYED TODAY

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

DAILY ACCOUNTING OF ACTIVITIES BY ITEM #

Item #	Cost Code	Labor Activity	Hours
1	10000	Short Duration Job	
2	11100	Onsite Mob/Demob	
3	11150	Job Preparation	
4	11200	Safety Meeting	
5	0005	Training - Overhead	
6	0006	Shop - Overhead	
7	0007	Maintenance - Overhead	
8	11250	Training - Job Chargeable	
9	11300	Site Clean up	
10	11350	Install Sound Walls	
11	11400	Install Decon Pad	
12	11450	Install Surface Casing	
13	11500	Install Roadway & Drill Pad	
14	12050	Test Hole Drilling	
15	12100	Geophysical Logging & Other Testing	
16	12150	Aquifer Zone Testing	
17	12200	Wellhole Abandonment	
18	13050	Production Well Installation	
19	13100	Install Conduits or Pipe	
20	13150	Install Pilot Hole	
21	13200	Geophysical Logging & Other Testing	
22	13250	Aquifer Zone Testing	
23	13300	Wellhole Abandonment / Cement Plug	
24	13350	Reaming	
25	13400	Under Reaming	
26	13450	Install Casing	
27	13500	Install Screen	
28	13550	Gravel Pack the Well	
29	13600	Install Annular Seal	
30	13650	Water Watching	
31	14050	Well Development Air Lift and Swab	
32	14100	Disposal of Fluids & Cuttings	
33	14150	Furnish, Install Test Pump and Charge	
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	
		<b>TOTAL HOURS</b>	

MATERIALS USED TODAY

Quantity	Description
	Safety Meetings
1)	Keeping floor clear while Packer Testing
2)	How to use A. fire extinguisher
	PPE, high press. hoses, fire safety, power tool safety, face shield use, slip-trip-fall

TIME OF ACTIVITY BY ITEM #

From	To	Order	Item #
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
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		AM PM	

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

2058' BPL - 2080' BPL  
 Packer test Tally 3 T.I.H. 3 Std AN line 3 Pump. Pump Test.  
 repair Silt fence, fabricat Pains scrapers clean & paint rotating head,  
 vacuum/clean Parts House Shelves, painted flowline bracket & tube cart  
 Loader / Forklift / Backhoe / Trackhoe Tests for hands. Repair trailer.

Operator's Signature: M. Paiz Date: \_\_\_\_\_ Client's Signature: \_\_\_\_\_ Date: \_\_\_\_\_ Supervisor's Signature: Kud... Date: \_\_\_\_\_  
 LCC OSL 082209 PAYROLL





LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT FPL Proposed Turkey Point Units 6 and 7
Docket Nos. 52-040 and 52-041
JOB SITE NAME EN-1 L-2012-035 Enclosure 3 Page 23 of 55

DATE 11/8/12
SUNDAY - NIGHT

JOB # 11771
JOB SITE LOCATION T.P

PERSONNEL EMPLOYED TODAY

Table with columns: Crew Assignment, Employee - Full Name, Per Diem?, Onsite Hours, Offsite Hours, Total Hours. Includes names: Danny Keeley, Dan Young SR, Bob Freetham, A.P. Andrey Popov.

EQUIPMENT DELETED TODAY

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

DRIER ACCOUNTING OF ACTIVITIES BY ITEM #

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

MATERIALS USED TODAY

Table with columns: Quantity, Description. Contains handwritten notes: Safety Meeting, #1 stay of floor during packer, #2 tripping out airline test, Packer test 2058 BPL to 2080 ft.

TIME OF ACTIVITY BY ITEM #

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

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

Repaired valve for slips, tripped out Airline
Completed steam #1
Packer test at pump test until 10 PM
Recover until 12 AM stop test
BLEED PROPS TURN WITH SUB PUMP

Supervisor's Signature: [Handwritten Signature]
Date:
Client's Signature:
Date:
PAYROLL
Date:
Supervisor's Signature:
Date:





LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT: FPL Proposed Turkey Point Units 6 and 7  
Docket Nos. 52-040 and 52-041  
JOB SITE NAME: EW-1 L-2012-035 Enclosure 3 Page 24 of 55

DATE: 1/9/2012  
Monday Days

JOB #: 11771  
JOB SITE LOCATION: Turkey Point

PERSONNEL EMPLOYED TODAY

Table with columns: Crew Assignment, Employee - Full Name, Per Diem?, Onsite Hours, Offsite Hours, Total Hours. Includes names like Michael A. Ramirez, Juan Nieto, James McDowell, Justin Yeomans, and Akmal Burkhanov.

EQUIPMENT DEPLOYED TODAY

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

DAILY ACCOUNTING OF ACTIVITIES BY ITEM #

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

MATERIALS USED TODAY

Table with columns: Quantity, Description. Includes 'Safety Meetings' and a list of items: 1) Moving the Packer, 2) Slip-Trip-Fall. Also lists PPE, arc welding safety, high pressure hoses, ladder, safety, heavy stress, and Total Weight: 100k.

TIME OF ACTIVITY BY ITEM #

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

PACKER TEST 218' BPL - 22' OS' BPL

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION  
Move the Packer for Packer Test T.O.O.H 30' D.P. PUP. T.I.H. 1 std. DP, T.I.H. 20' D.P. PUP & 45' D.P. PUP. Add 1 Bag Salt. Pump off Slurry Pit. Trip in 3 stds. Air line, Air Develop. STOP AIR Develop. Wait on orders... Trip Out Air line. Deflate Packer.

M. Ring

[Signature]





## LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT FPL  
 Proposed Turkey Point Units 6 and 7  
 Docket Nos. 52-040 and 52-041  
 L-2012-035 Enclosure 3 Page 25 of 55

DATE 1-9-12  
MON NIGHT

JOB # 11771  
 JOBSITE LOCATION T.P.

## PERSONNEL EMPLOYED TODAY

Crow Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
D.K.	Danny Keeley	X	12		12
DA	Dan Young - SR.	X	12		12
AA	ANOREY POPOV	X	12		12
V.M.	VICTOR MOISEYEV	X	12		12

## MATERIALS USED TODAY

Category	Description
#1	SAFETY MEETINGS
#1	T-OUT WITH PACKERS
#2	WORKING WITH TONGES
	PPE, Pinch points, Haskeeping Safety glasses, and gloves

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

① Began Tripping out with Packers, Completed!  
 ② Put together BHA with tonges  
 ③ Tripping hole 28' Bit!

## EQUIPMENT DEPLOYED TODAY

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

## 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	
		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	Lift - Overhead	
7	0007	Maintenance - Overhead	
8	11250	Training - Job Chargeable	
9	11300	Site Clean up	
10	11350	Install Sound Walls	
11	11400	Install Docon Pad	
12	11450	Install Surface Casing	
13	11500	Install Roadway & Drill Pad	
14	12050	Test Hole Drilling	
15	12100	Geophysical Logging & Other Testing	
16	13100	Aquifer Zone Testing	
17	13200	Worchole Abandonment	
18	13050	Production Well Installation	
19	13100	Install Conductor Pipe	
20	13150	Drill Pilot Hole	
21	13200	Geophysical Logging & Other Testing	
22	13250	Aquifer Zone Testing	
23	13300	Worchole Abandonment/Cement Plugs	
24	13350	Reaming	
25	13400	Under Reaming	
26	13450	Install Casing	
27	13500	Install Screen	
28	13550	Gravel Pack The Well	
29	13600	Install Annular Seal	
30	13650	Water Watching	
31	14050	Well Development Air Lift and Swab	
32	14100	Disposal of Fluids & Cuttings	
33	14150	Furnish & Install Test Pump and Discharge	
34	14200	Development Pumping	
35	14250	Test Pumping	
36	14300	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	Margins	
45	90200	Job Superintendent	
		Lunch	
		<b>TOTAL HOURS</b>	





### LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT F.P.L. Proposed Turkey Point Units 6 and 7  
 Docket Nos. 52-040 and 52-041  
 L-2012-035 Enclosure 3 Page 26 of 55  
 JOBSITE NAME EW-1

DATE 01-10-12  
TUE DAYS.

JOB # 11771  
JOB # LOCATION T.P.

#### PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
<del>DILLON</del>	BOSI + GULAMOV	X	12		12
	V.I. VLAD ISHIMAN	X	12		12
	T.I. JUSTIN YEOMANS	X	8		8
	A.B. AKMAI BURICHONOV	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	Work 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	Misc 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	19500	Other Activities Standby	
41	19600	Fishing for Lost/Broken Tooling	
42	19650	Change Order Activities	
43	88050	Equipment Repairs	
44	90170	Damages	
45	90200	Job Superintendent lunch	
TOTAL HOURS			

#### MATERIALS USED TODAY

Quantity	Description
	<u>SAFETY MTG:</u>
①	<u>P.I.P.E + T.I.H</u>
②	<u>HAND SAFETY:</u>
	<u>PINCH POINT: LOADER SAFETY:</u>
	<u>HIGH PRESS LINE:</u>

#### 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	
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		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	

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

T.I.H 28" BIT: START DRILL FROM / - 2270' BPL -  
TO - 2300' BPL - SITE CLEAN UP + HOUSEKEEPING:  
CLEAN M.C.C HOUSE: MAKE CONNECTION: BACK DRILL  
FROM / - 2300' BPL - TO - 2314' BPL.

*[Signature]*

01-10-12  
Date

Client's Signature

PAYROLL

Job #

*[Signature]*

Supervisor's Signature

Job #





# LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT FPL Proposed Turkey Point Units 6 and 7  
 Docket Nos. 52-040 and 52-041  
 JOB SITE NAME EW-1 L-2012-035 Enclosure 3 Page 27 of 55

DATE 1/10/12  
TUE. NIGHT  
 EQUIPMENT DEPLOYED TODAY

JOB # 11771  
 JOB SITE LOCATION T.P.

### PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
DIRECTOR	DANNY KEELEY	X	12		12
M	DAN YOUNG SR	X	12		12
AP	ANDREY POPOV	X	12		12

### MATERIALS USED TODAY

Quantity	Description
	<b>SAFETY MEETINGS:</b>
	#1 EYE SAFETY
	#2 HEARING PROTECTION
	PPE, LOADER SAFETY, ELECTRICAL SAFETY, PINCH POINTS.

### TIME OF ACTIVITY BY ITEM #

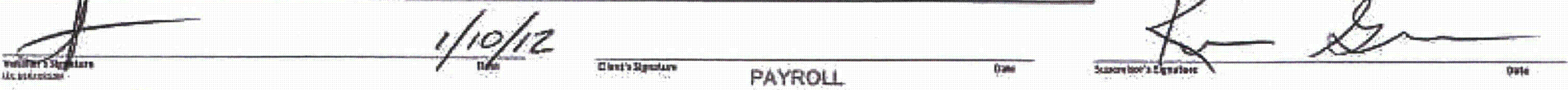
From	To	Circle One	Item #
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
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		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	

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

CONTINUE REAMING 28" BIT FROM 2314' BPL TO 2345' BPL → MAKE CONNECTION → DEVIATION SURVEY O.O @ 2,310 FT BPL CONTINUE REAMING FROM 2345' BPL TO 2377' BPL

### 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	Drilling - Overhead	
6	0006	Hoop - Overhead	
7	0007	Maintenance - Overhead	
8	11250	Drilling - Job Chargeable	
9	11300	Site Clean up	
10	11350	Install Sound Walls	
11	11400	Install Ocean Pad	
12	11450	Install Surface Casing	
13	11500	Install Roadway & Drill Pad	
14	12050	Fast Hole Drilling	
15	12100	Geophysical Logging & Other Testing	
16	12150	Flowlog Zone Testing	
17	12200	Abandonment	
18	13050	Production Well Installation	
19	13100	Install Conductor Pipe	
20	13150	Drill Rig Move	
21	13200	Geophysical Logging & Other Testing	
22	13250	Flowlog Zone Testing	
23	13300	Abandonment / Cement Plug	
24	13350	Rearring	
25	13400	Under Rearring	
26	13450	Well Casing	
27	13500	Install Screen	
28	13550	Travel 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	Fast Pumping	
36	14300	Disinfection and Chelation	
37	19050	Drill Site Aggregates Mob/Demob	
38	19100	Shop	
39	19150	Administrative	
40	19550	Other Activities Standby	
41	19600	Drilling for Log / Broken Tooling	
42	19650	Change Order Activities	
43	88000	Equipment Repairs	
44	90170	Damages	
45	90200	Job Superintendent	
		Lunch	
TOTAL HOURS			


  
 Worker's Signature: \_\_\_\_\_ Date: 1/10/12
  
 Client's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

PAYROLL





LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT: F.P.L. Proposed Turkey Point Units 6 and 7
Docket Nos. 52-040 and 52-041
L-2012-035 Enclosure 3 Page 28 of 55
JOB SITE NAME: EWS -

DATE: 01-11-12
WED SATS.

JOB #: 11771
JOB SITE LOCATION: T.P.

PERSONNEL EMPLOYED TODAY

Table with columns: Crew Assignment, Employee - Full Name, Per Diem? (X), Onsite Hours, Offsite Hours, Total Hours. Rows include BOSIT GULONOV, VLAD ISHIMOV, VICTOR MOISYEV, and ALMAI BURKHONOV.

EQUIPMENT DEPLOYED TODAY

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

DAILY ACCOUNTING OF ACTIVITIES BY ITEM #

Large table with columns: Item #, Cost Code, Labor Activity, Hours. Lists activities from 1 to 45, including short duration on job, mobilization, safety meetings, training, and various drilling operations.

MATERIALS USED TODAY

Table with columns: Quantity, Description. Includes entries for SAFETY MTG., REVERSE CIRCULATION DRILLING METHOD, SCAFFOLDING, and PPE: HAND SAFETY, PINCH POINT, HIGH PRESS LINE, LOADER SAFETY.

TIME OF ACTIVITY BY ITEM #

Table with columns: From, To, Order, Item #. Shows time intervals for various activities.

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

Drill 28" BIT; FROM / - 2777' BPL - TO - 2390' BPL.
RUN SURVE @ 2370' - .3 MAKE CONNECTION; START DRILL
FROM / - 2390' BPL - TO - 2435' BPL.
PRESS WASH FLOOR + CAR RIG; RUN SURVE - 2430' @ .1
MAKE CONNECTION; DRILL FROM / - 2435' BPL - TO - 2440' BPL.

Handwritten signature of the client.

Date: 01-11-12

Client's Signature

PAYROLL

Date

Handwritten signature of the supervisor.

Supervisor's Signature

Date





LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT F.P.L Proposed Turkey Point Units 6 and 7  
Docket Nos. 52-040 and 52-041  
JOB SITE NAME EW-1 L-2012-035 Enclosure 3 Page 29 of 55

DATE 11/11/12  
WED, "NITE"

JOB # 11771  
LOCATION LOCATION T.P

PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
D.K.	Danny Keeley	X	12		12
D.Y.	Dan Young SR	X	12		12
A.P.	Andrey Popov	T	12		12

EQUIPMENT DEPLOYED TODAY

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

DAILY ACCOUNTING OF ACTIVITIES BY ITEM #

Item #	Cost Code	Labor Activity	Hours
1	10000	Short Duration Job	
2	11100	Onsite Mob/Demob	
3	11150	Job Preparation	
4	11200	Safety Meeting	
5	0005	Training - Overhead	
6	0006	Shop - Overhead	
7	0007	Maintenance - Overhead	
8	11250	Training - Job Chargeable	
9	11300	Site Clean up	
10	11350	Install Sound Walls	
11	11400	Install Decan 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	
		<b>TOTAL HOURS</b>	

MATERIALS USED TODAY

Quantity	Description
	Safety mtg
①	Fire prevention & Protection
②	Vehicle Safety
	Hand Safety, Pinch Point, HIRA
	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	

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

Drill 26" bit ~~2440~~ to 2480 BPL.  
Built containment for portable compressor.  
MAKE CORRECTION CONT WILL REDRILL  
2480' BPL to 2519' BPL

*[Signature]*  
Supervisor's Signature

01-11-12  
Date

*[Signature]*  
Chief's Signature

PAYROLL

*[Signature]*  
Supervisor's Signature



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



**EW-1 Pad Monitoring Well Water Quality Data  
Northeast Pad Monitoring Well  
(NE-EW PMW)**

Date	Time (hours)	Depth to Water (ft. btoc)	Water Elevation (ft. NAVD 88)	Specific Conductance (umhos/cm)	Chloride (mg/L)	TDS (mg/L)	Temperature (degrees C)	Remarks
4/21/2011	1108	10.49	-1.61	78,700	32,200	57,000	29.8	Background Sampling
4/29/2011	1157	10.68	-1.80	80,400	29,900	53,800	30.4	
5/5/2011	1157	11.40	-2.52	81,400	27,500	52,350	31.2	
5/11/2011	1309	11.00	-2.12	76,800	31,600	51,200	29.7	
5/19/2011	0958	10.48	-1.60	72,600	35,600	51,200	29.5	
5/26/2011	1050	10.76	-1.88	71,360	29,500	52,900	29.7	
6/2/2011	1134	10.78	-1.90	71,700	29,000	55,700	29.6	
6/9/2011	1128	10.61	-1.73	69,700	32,300	50,650	29.3	
6/16/2011	0958	10.35	-1.47	69,300	33,000	53,450	29.5	
6/23/2011	1028	10.41	-1.53	69,400	30,600	55,600	29.5	
6/30/2011	0928	10.15	-1.27	70,300	27,600	51,950	29.2	
7/8/2011	1210	9.00	-0.12	72,570	30,100	54,150	29.9	
7/14/2011	1338	9.75	-0.87	76,400	27,200	54,550	29.9	
7/21/2011	1039	9.35	-0.47	72,200	32,600	49,760	29.7	
7/28/2011	1119	9.51	-0.63	71,600	30,200	54,250	29.7	
8/4/2011	1249	9.70	-0.82	64,400	31,500	53,850	27.5	
8/11/2011	1059	9.25	-0.37	73,900	29,500	57,150	29.6	
8/18/2011	1039	9.45	-0.57	71,900	29,400	54,850	30.0	
8/25/2011	1039	9.45	-0.57	69,800	31,300	55,550	29.7	
9/1/2011	1109	9.15	-0.27	71,700	29,500	56,300	29.9	
9/8/2011	1049	9.15	-0.27	70,700	31,400	49,800	30.3	
9/16/2011	1233	9.30	-0.42	5320*	1260*	2668*	27.8	
9/23/2011	1129	9.10	-0.22	72,900	31,200	52,750	30.1	
9/29/2011	1330	9.16	-0.28	11,500*	3,200*	7,010*	27.8	
10/6/2011	1119	9.30	-0.42	72,600	30,000	56,200	30.1	
10/13/2011	1058	10.15	-1.27	75,200	32,500	51,600	30.1	
10/20/2011	1049	8.40	0.48	68,400	29,100	57,450	29.9	
10/27/2011	1109	8.95	-0.07	80,200	27,700	54,950	30.0	
11/3/2011	1049	8.91	-0.03	80,200	31,100	55,700	29.9	
11/10/2011	0958	9.67	-0.79	75,500	28,700	59,600	30.0	
11/17/2011	1058	10.81	-1.93	68,400	34,900	57,500	30.1	
11/25/2011	0939	9.51	-0.63	69,300	26,500	52,750	30.0	
12/1/2011	1138	9.67	-0.79	66,000	29,800	55,200	29.8	
12/8/2011	1058	10.31	-1.43	63,800	30,100	57,050	27.5	
12/15/2011	1109	9.61	-0.73	75,400	28,300	53,700	30.0	
12/22/2011	1038	9.67	-0.79	69,300	29,500	51,800	30.7	
12/29/2011	0918	9.87	-0.99	76,900	30,800	51,300	29.7	
1/5/2012	1118	10.41	-1.53	70,400	28,100	52,200	29.5	

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

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



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



**EW-1 Pad Monitoring Well Water Quality Data  
Southeast Pad Monitoring Well  
(SE-EW PMW)**

Date	Time (hours)	Depth to Water (ft. btoc)	Water Elevation (ft. NAVD 88)	Specific Conductance (umhos/cm)	Chloride (mg/L)	TDS (mg/L)	Temperature (degrees C)	Remarks
4/21/2011	1311	10.10	-1.51	81,600	30,200	57,800	29.9	Background Sampling
4/29/2011	1349	10.40	-1.81	86,700	33,100	55,000	30.4	
5/5/2011	1008	11.10	-2.51	83,000	29,500	54,700	29.9	
5/11/2011	1228	10.65	-2.06	78,200	30,100	52,600	30.1	
5/19/2011	1039	10.12	-1.53	75,200	30,000	51,100	29.8	
5/26/2011	1235	10.47	-1.88	73,890	31,200	53,800	29.9	
6/2/2011	1056	10.50	-1.91	74,200	29,400	57,400	29.6	
6/9/2011	1210	10.32	-1.73	72,200	32,100	51,000	29.6	
6/16/2011	1035	10.00	-1.41	71,300	32,200	54,000	29.8	
6/23/2011	1109	10.10	-1.51	71,900	31,600	55,650	29.8	
6/30/2011	1009	9.85	-1.26	72,800	27,600	53,050	29.5	
7/8/2011	1138	9.12	-0.53	73,150	29,800	54,450	29.9	
7/14/2011	1414	9.48	-0.89	79,700	29,000	55,350	29.8	
7/21/2011	1119	9.36	-0.77	74,100	34,000	54,100	30.0	
7/28/2011	1229	9.55	-0.96	74,300	30,200	56,300	29.8	
8/4/2011	1224	9.50	-0.91	72,700	31,500	53,000	27.7	
8/11/2011	1209	9.37	-0.78	77,400	30,000	56,800	29.7	
8/18/2011	1149	9.45	-0.86	74,100	30,100	55,500	30.0	
8/25/2011	1149	9.38	-0.79	73,300	31,200	57,450	29.6	
9/1/2011	1224	9.10	-0.51	72,700	30,700	57,300	29.8	
9/8/2011	1159	9.21	-0.62	73,200	32,200	51,800	30.1	
9/16/2011	1303	9.40	-0.81	70,280	29,600	50,550	27.7	
9/23/2011	1239	9.20	-0.61	75,200	29,000	55,550	29.8	
9/29/2011	1300	9.10	-0.51	68,500	30,700	53,600	27.4	
10/6/2011	1229	9.25	-0.66	79,100	31,300	54,050	30.0	
10/13/2011	1209	9.95	-1.36	76,900	30,200	52,250	30.1	
10/20/2011	1200	8.60	-0.01	69,900	28,000	57,150	29.8	
10/27/2011	1218	8.81	-0.22	82,400	28,000	56,500	30.0	
11/3/2011	1159	9.56	-0.97	82,900	31,000	56,400	30.1	
11/10/2011	1109	9.96	-1.37	78,300	27,900	60,500	30.1	
11/17/2011	1208	10.90	-2.31	69,700	34,000	57,800	30.2	
11/25/2011	1049	9.36	-0.77	69,900	26,900	53,600	30.0	
12/1/2011	1248	10.85	-2.26	71,800	33,900	57,000	30.2	
12/8/2011	1209	9.87	-1.28	68,900	29,500	61,500	27.0	
12/15/2011	1219	9.53	-0.94	76,600	28,000	55,100	30.1	
12/22/2011	1149	9.65	-1.06	72,300	29,000	52,400	30.0	
12/29/2011	1029	9.96	-1.37	77,600	29,800	52,200	30.1	
1/5/2012	1229	10.31	-1.72	72,800	27,700	53,400	30.1	

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



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



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

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

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



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



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

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

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	Water sample lab results are not yet available.							
10	2,183 - 2,205	50 (estimated)	(Terminated due to test interval productivity during conditioning)									

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



 <b>Florida Power &amp; Light Company</b> 					
<b>Turkey Point</b> <b>Exploratory Well EW-1</b> <b>Deviation Survey Summary</b>					
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			
8/29/2011	2,564	0.4			
8/31/2011	2,624	0.3			
9/4/2011	2,684	0.4			
9/4/2011	2,744	0.4			
9/4/2011	2,804	0.3			
9/5/2011	2,864	0.4			
9/5/2011	2,924	0.3			
9/5/2011	2,984	0.4			
9/6/2011	3,044	0.1			
9/6/2011	3,104	0.5			
9/7/2011	3,164	0.4			

bpl = below pad level



<b>Florida Power &amp; Light Company</b>				
<b>Turkey Point</b>				
<b>Exploratory Well EW-1</b>				
<b>Daily Kill Material Log</b>				
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



<b>Florida Power &amp; Light Company</b> <b>Turkey Point</b> <b>Exploratory Well EW-1</b> <b>Daily Kill Material Log</b>				
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
feet bpl = feet below pad level				





**X-Y CALIPER  
GAMMA RAY  
LOG**

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

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

Location:	API #:	Other Services
FPL TURKEY POINT POWER PLANT LAT: 25 25'19"N LONG: 80 20' 08" W MC NABB HYDROGEOLOGIC CONSULTING, INC. SEC TWP RGE		NONE
Permanent Datum GL Elevation		K.B.
Log Measured From GL		D.F.
Drilling Measured From GL		G.L.

Date	6-JAN-2012
Run Number	TEN
Depth Driller	3230'
Depth Logger	2742'
Bottom Logged Interval	2742'
Top Log Interval	CASING
Open Hole Size	12.25" 28.00"
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	S.DURALL

Borehole Record				Borehole Record			
Run Number	Bit	From	To	Run Number	Bit	From	To
TEN	28"	CASING	2270'				

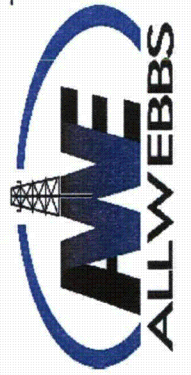
Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	34"	.375 W.T	SURFACE	1535'
Prot. String				
Production String				
Liner				

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

Comments

Proposed Turkey Point Units 6 and 7  
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**MAIN PASS**



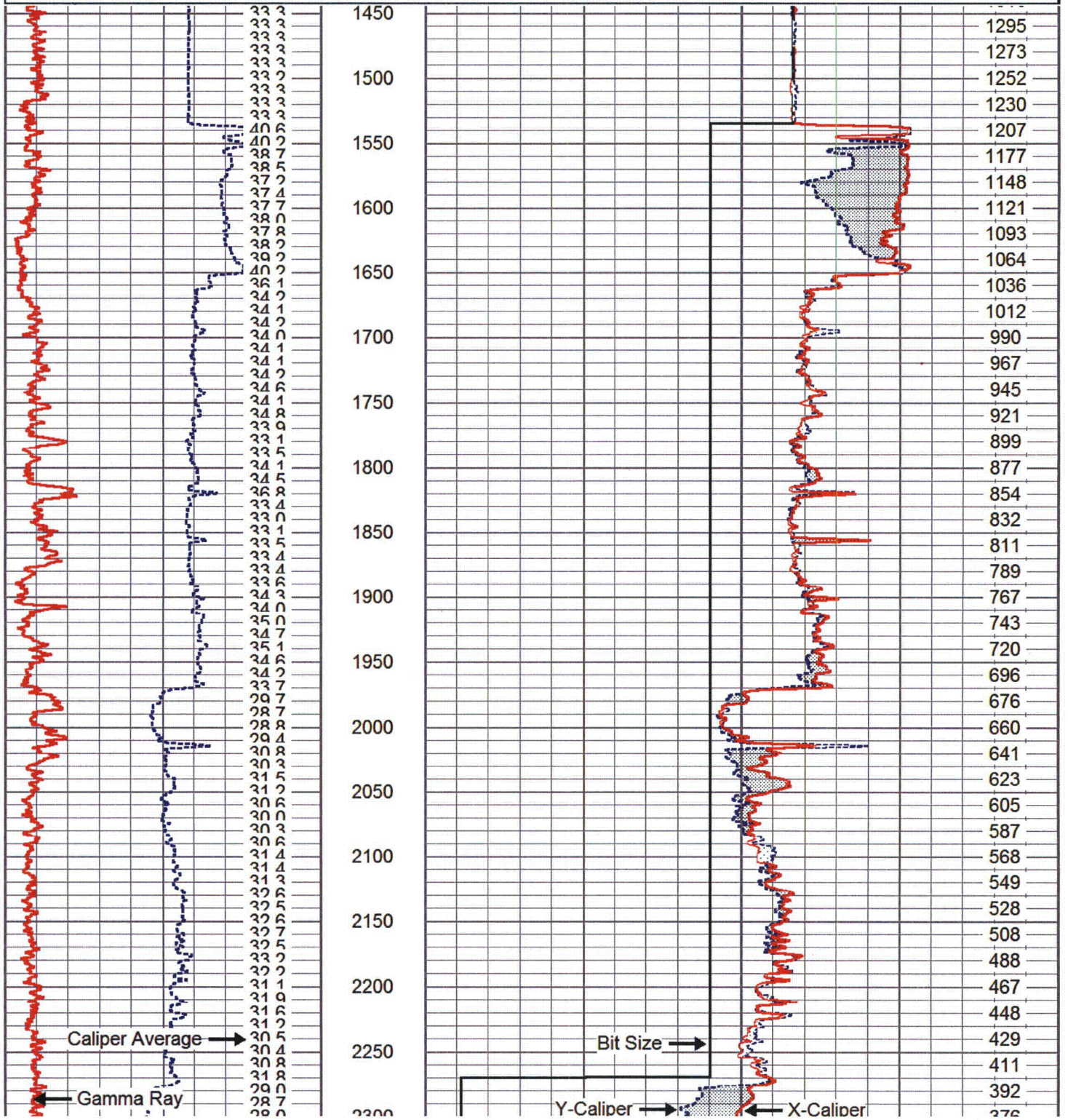
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 Charted by: Depth in Feet scaled 1:1200

Proposed Turkey Point Units 6 and 7  
 Docket Nos. 52-040 and 52-041  
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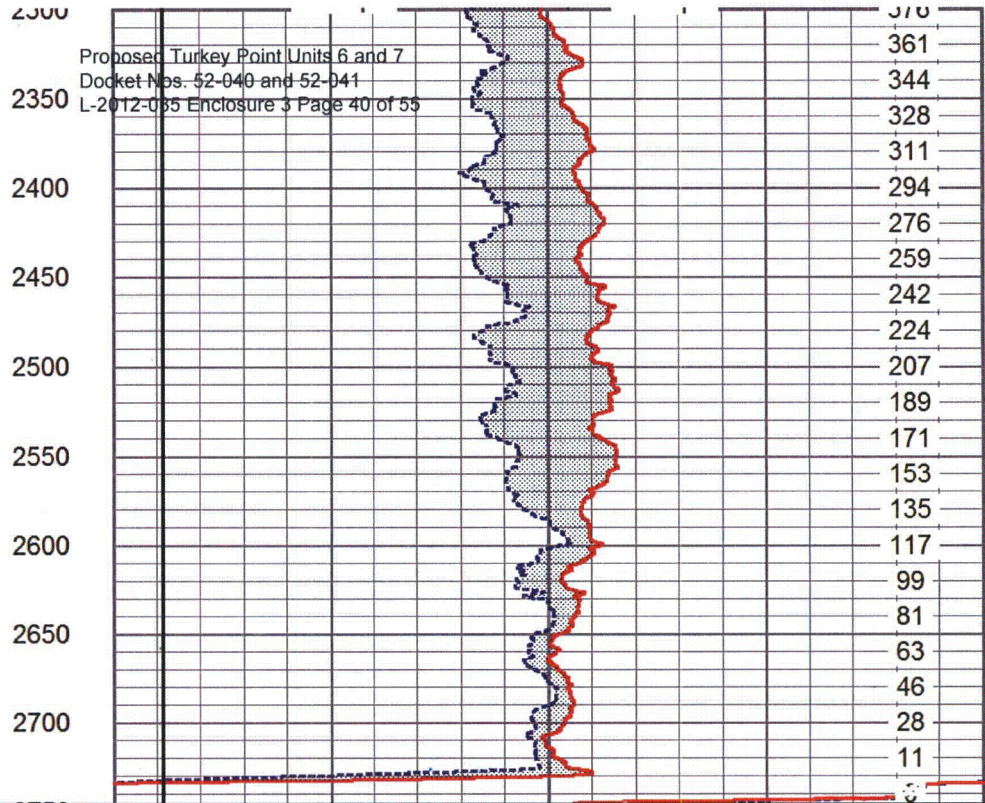
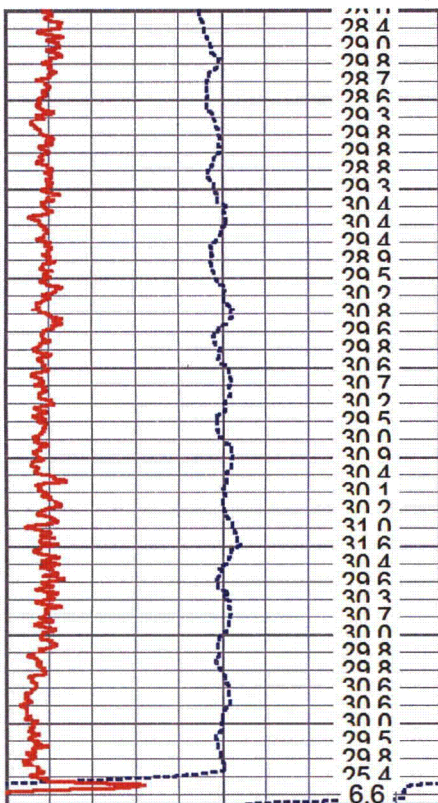
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0	Gamma Ray (GAPI)	100
	CALA (in)	

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

TBHV  
(bbl)







Proposed Turkey Point Units 6 and 7  
 Docket Nos. 52-040 and 52-041  
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10	Caliper Average (in)	50
0	Gamma Ray (GAPI)	100
	CALA (in)	

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

TBHV  
(bbl)



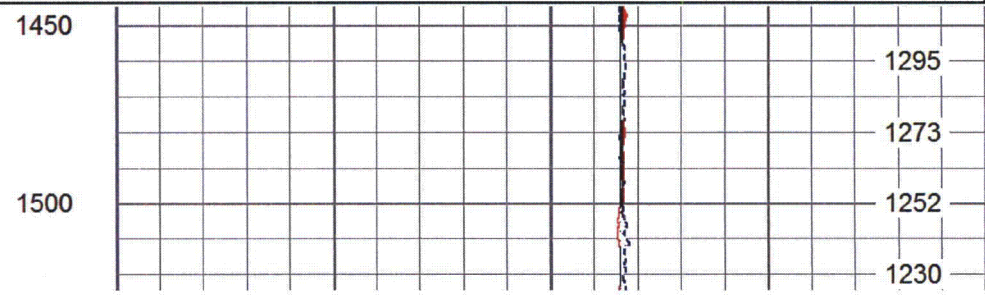
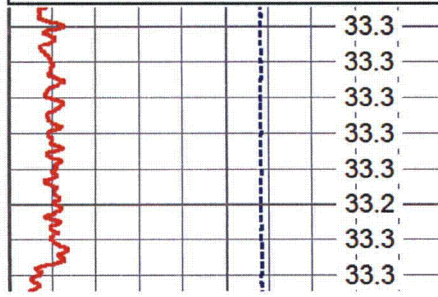
# MAIN PASS

Database File: tpew1.db  
 Dataset Pathname: XYCMP1  
 Presentation Format: xyc  
 Dataset Creation: Fri Jan 06 15:30:37 2012 by Calc Open-Cased 071220  
 Charted by: Depth in Feet scaled 1:600

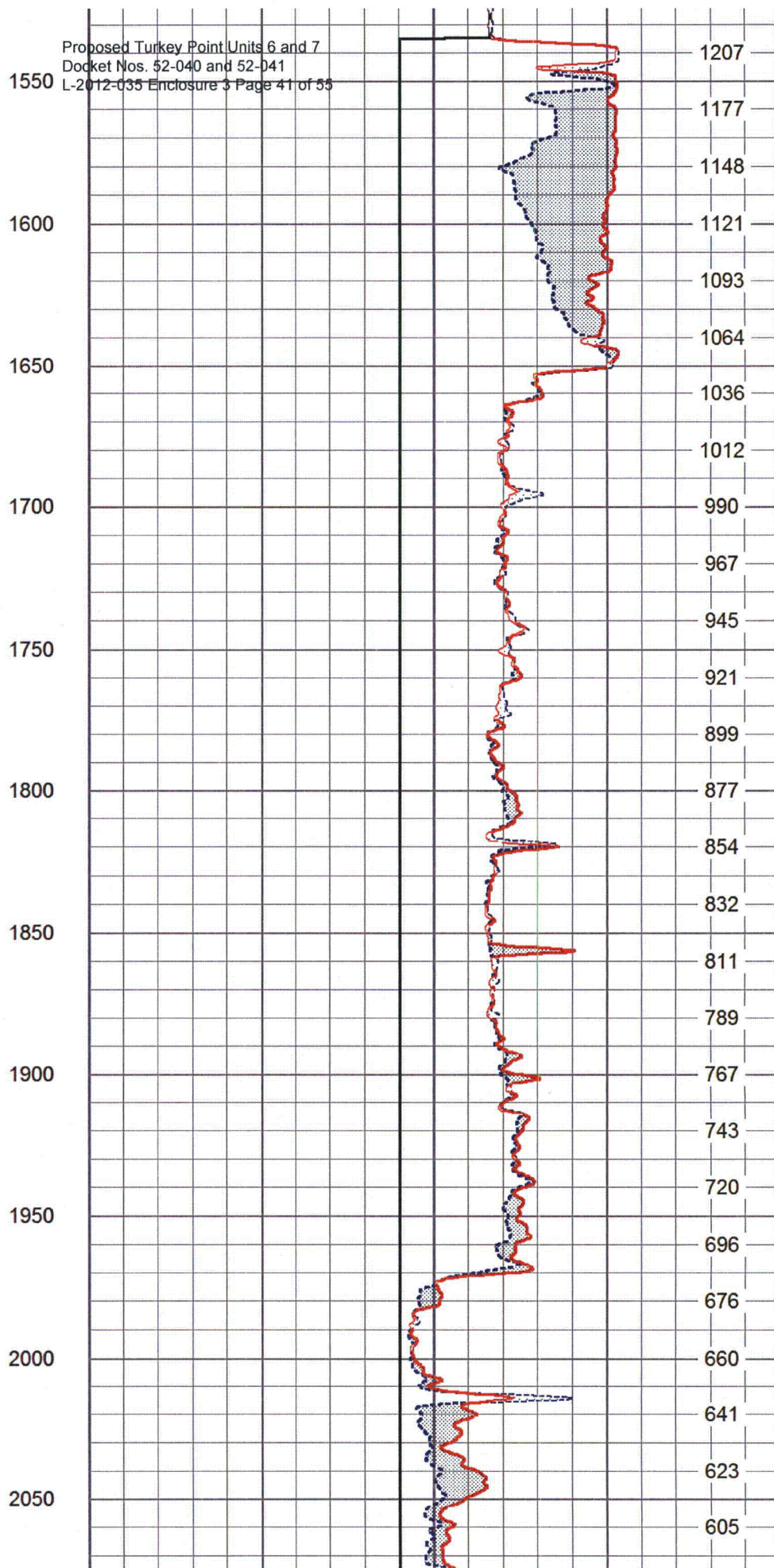
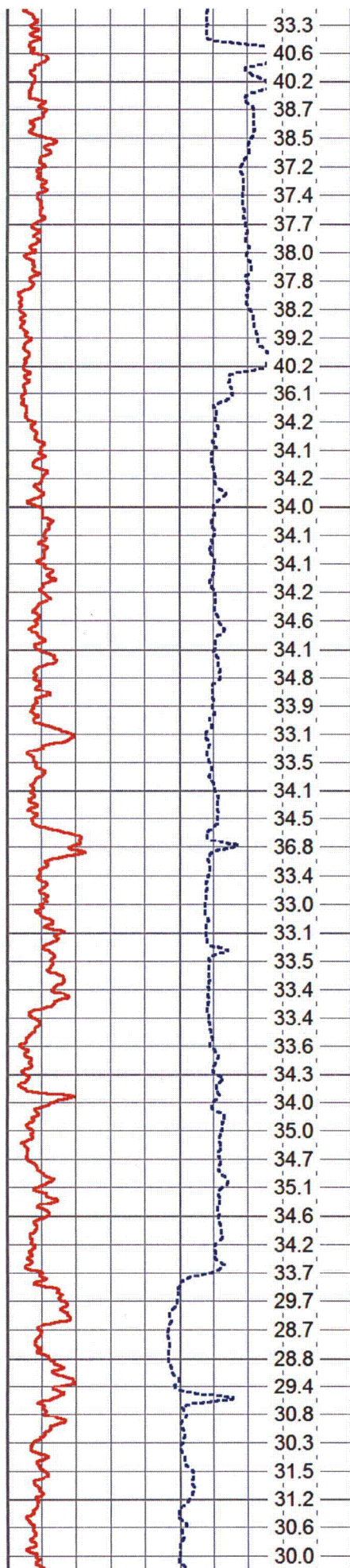
10	Caliper Average (in)	50
0	Gamma Ray (GAPI)	100
	CALA (in)	

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

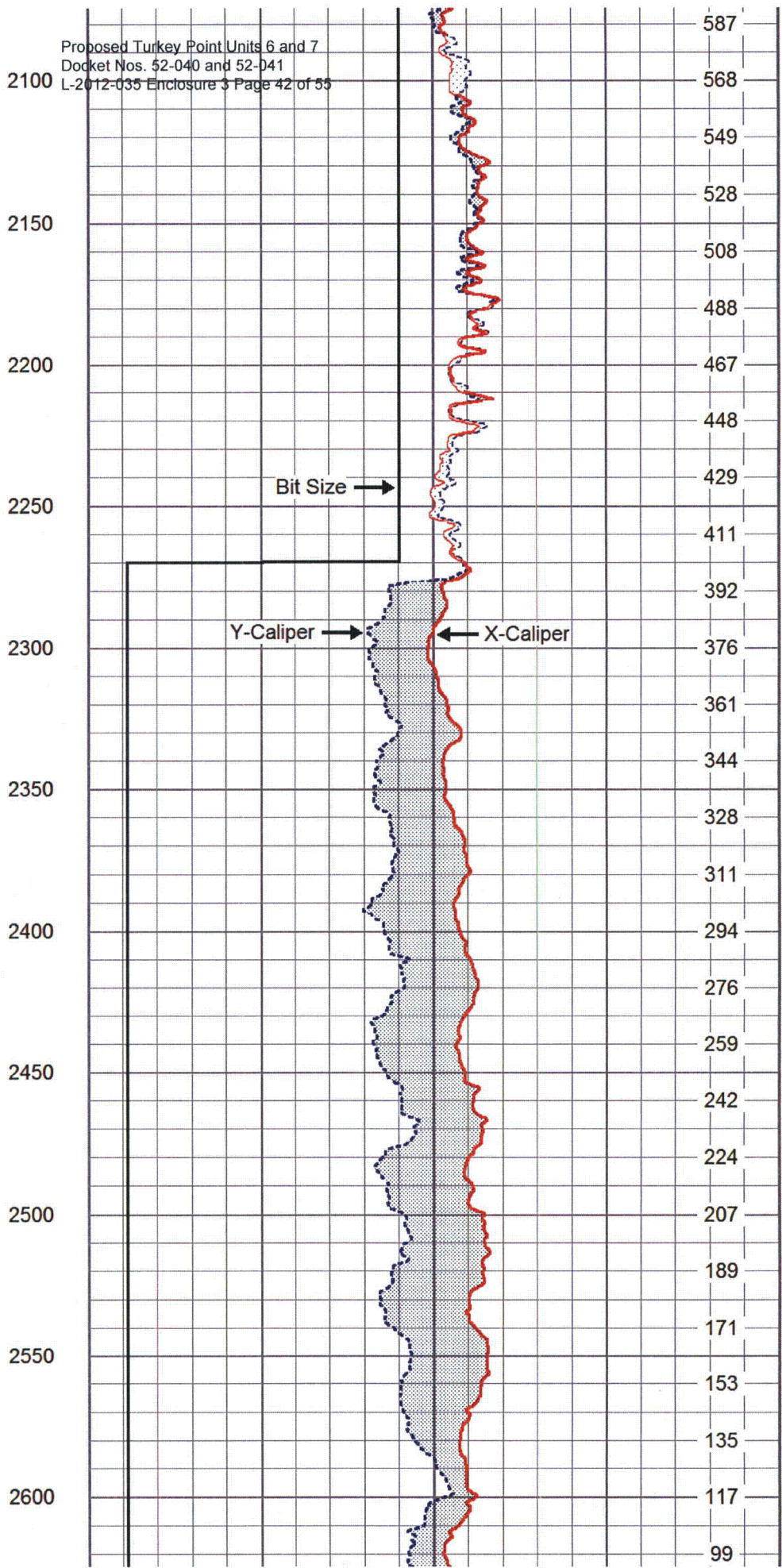
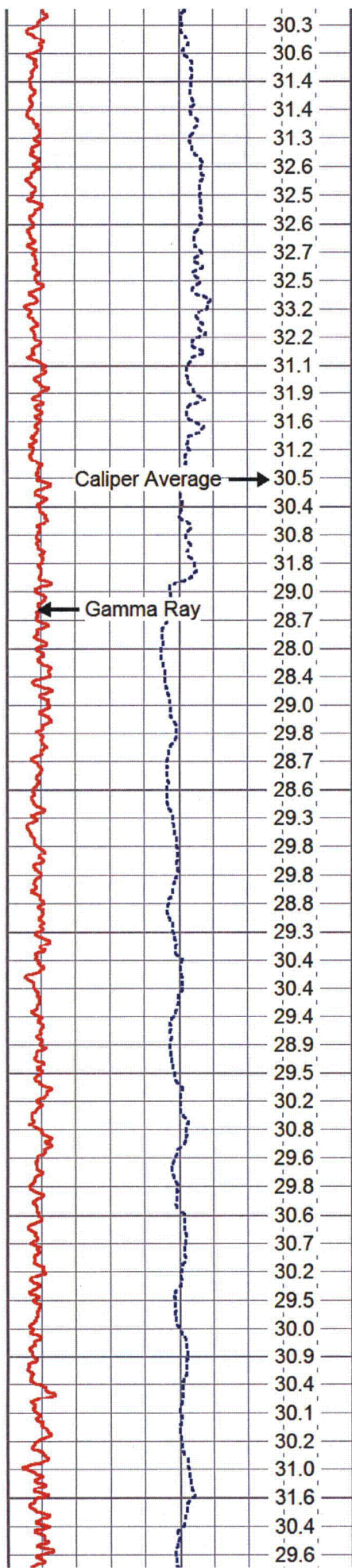
TBHV  
(bbl)



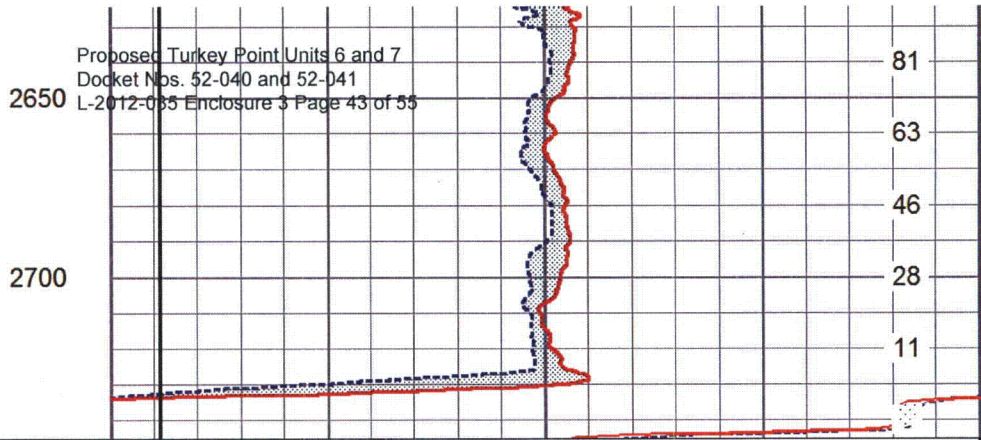
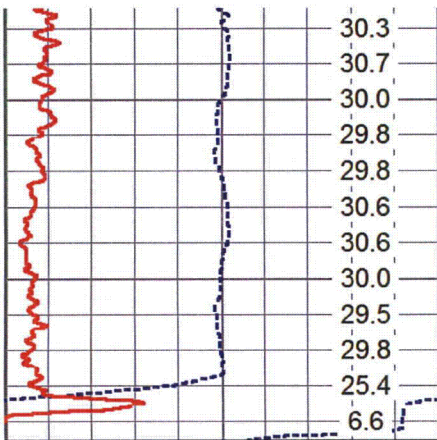












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10	Caliper Average (in)	50
0	Gamma Ray (GAPI)	100
	CALA (in)	

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

TBHV  
(bbl)



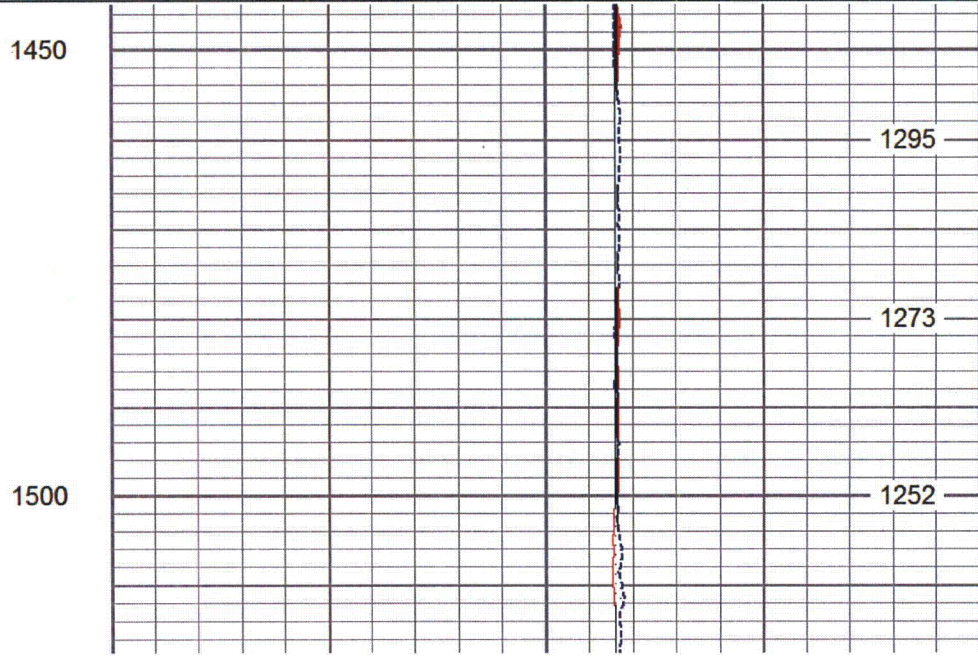
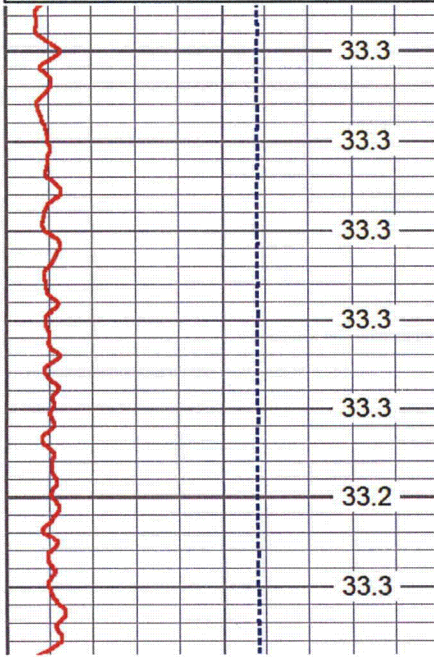
# MAIN PASS

Database File: tpew1.db  
 Dataset Pathname: XYCMP1  
 Presentation Format: xyc  
 Dataset Creation: Fri Jan 06 15:30:37 2012 by Calc Open-Cased 071220  
 Charted by: Depth in Feet scaled 1:240

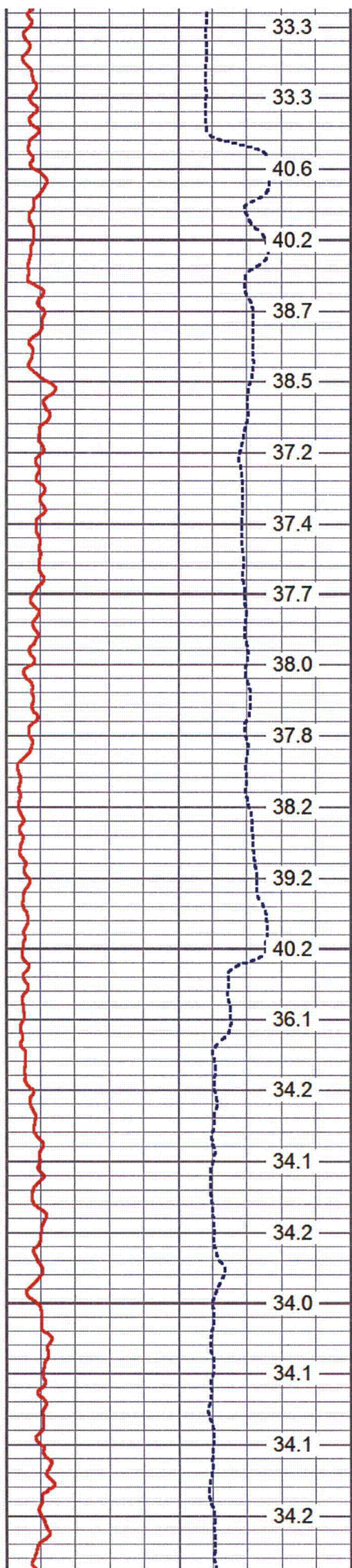
10	Caliper Average (in)	50
0	Gamma Ray (GAPI)	100
	CALA (in)	

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

TBHV  
(bbl)





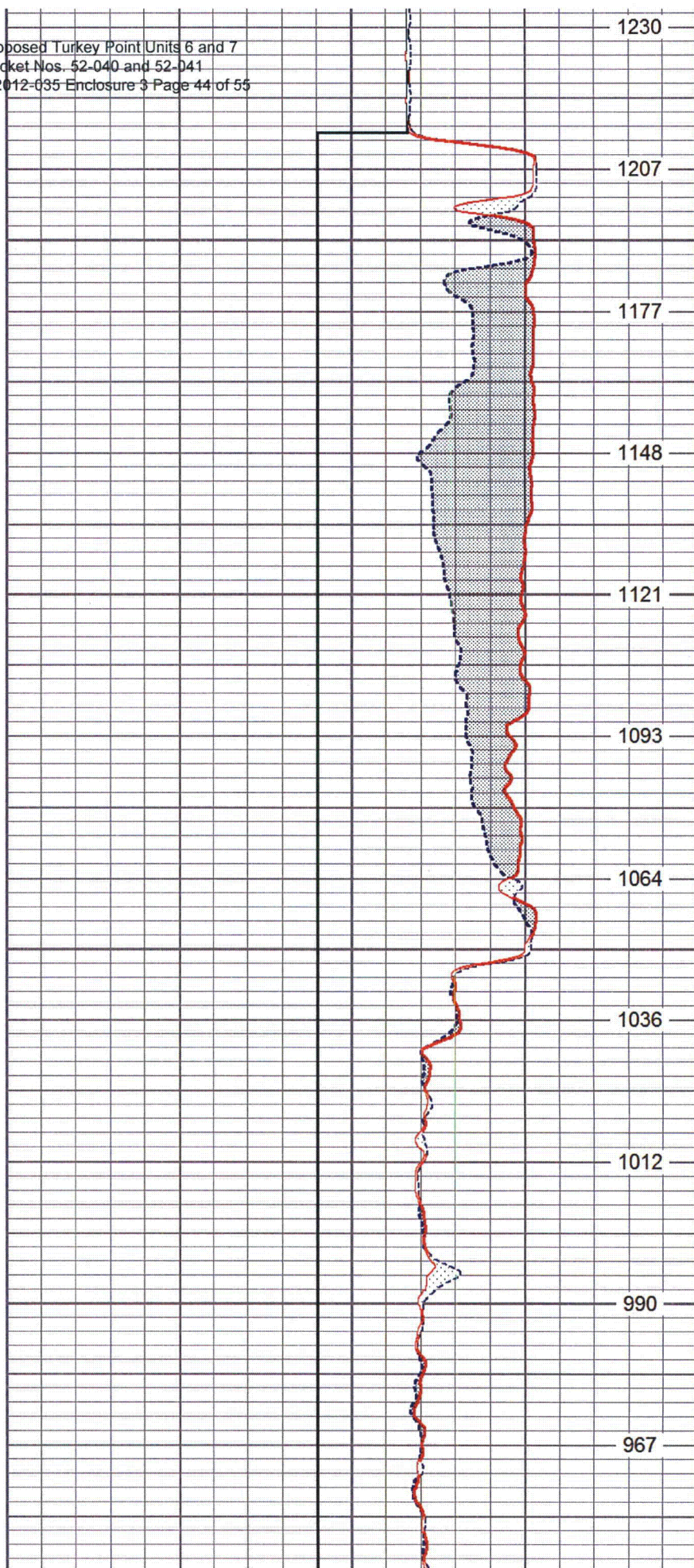


1550

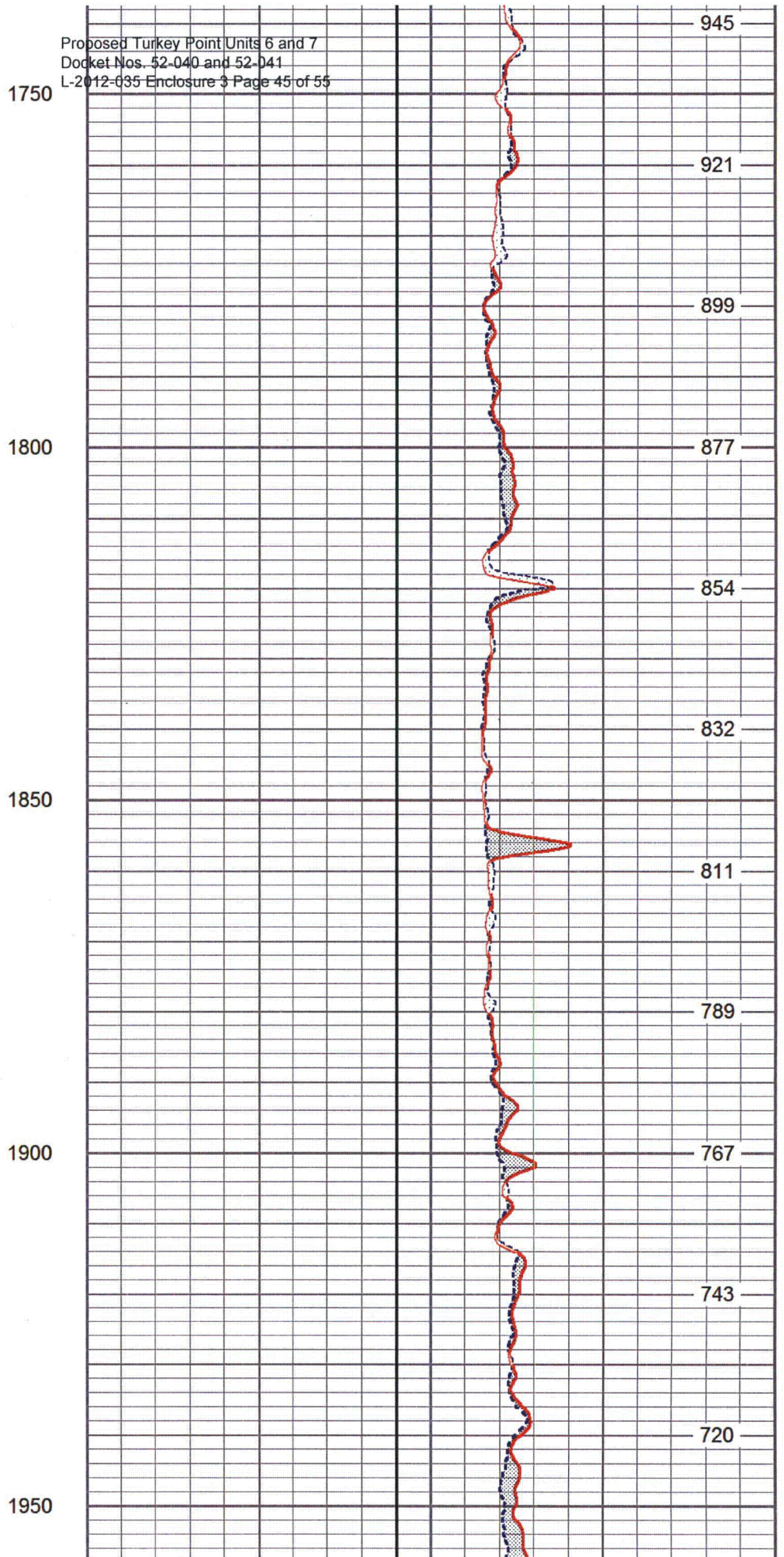
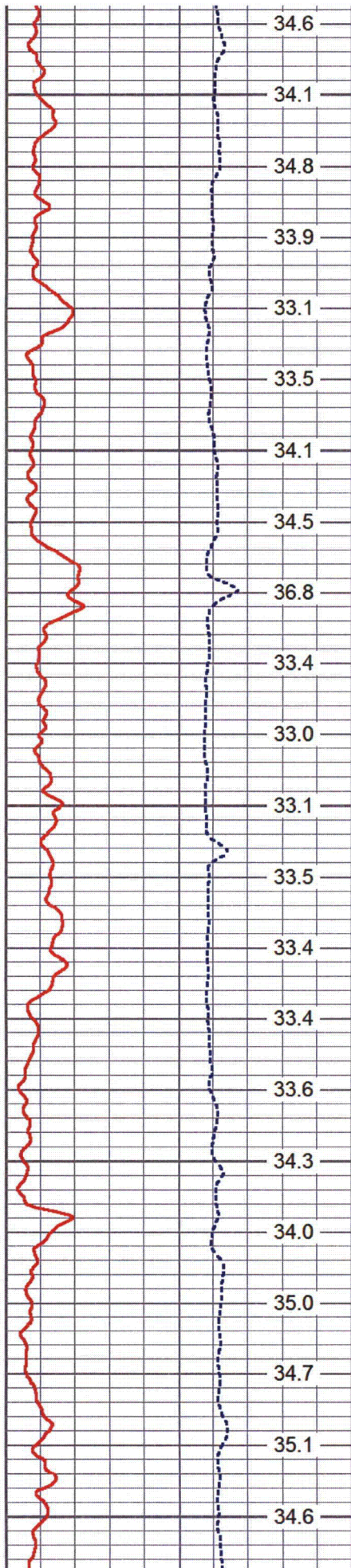
1600

1650

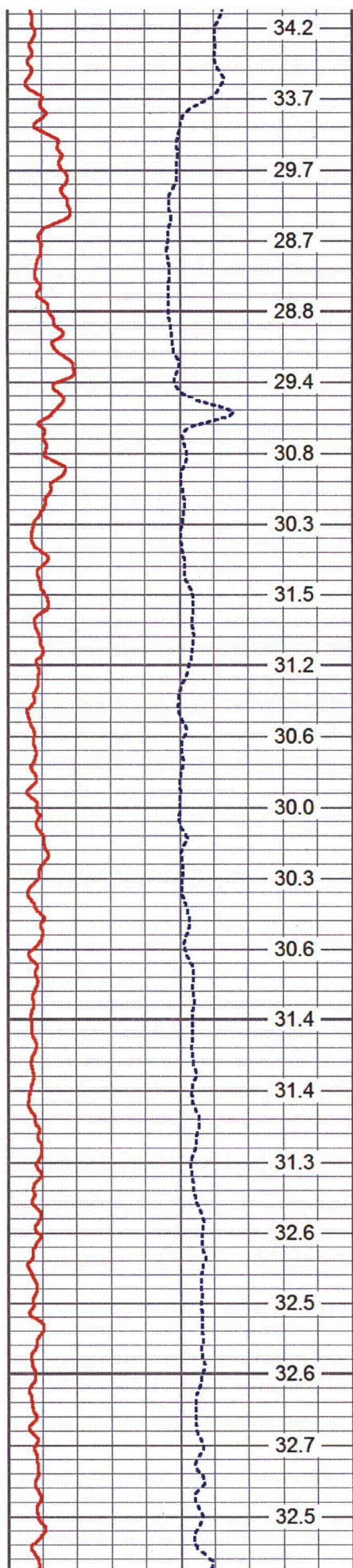
1700









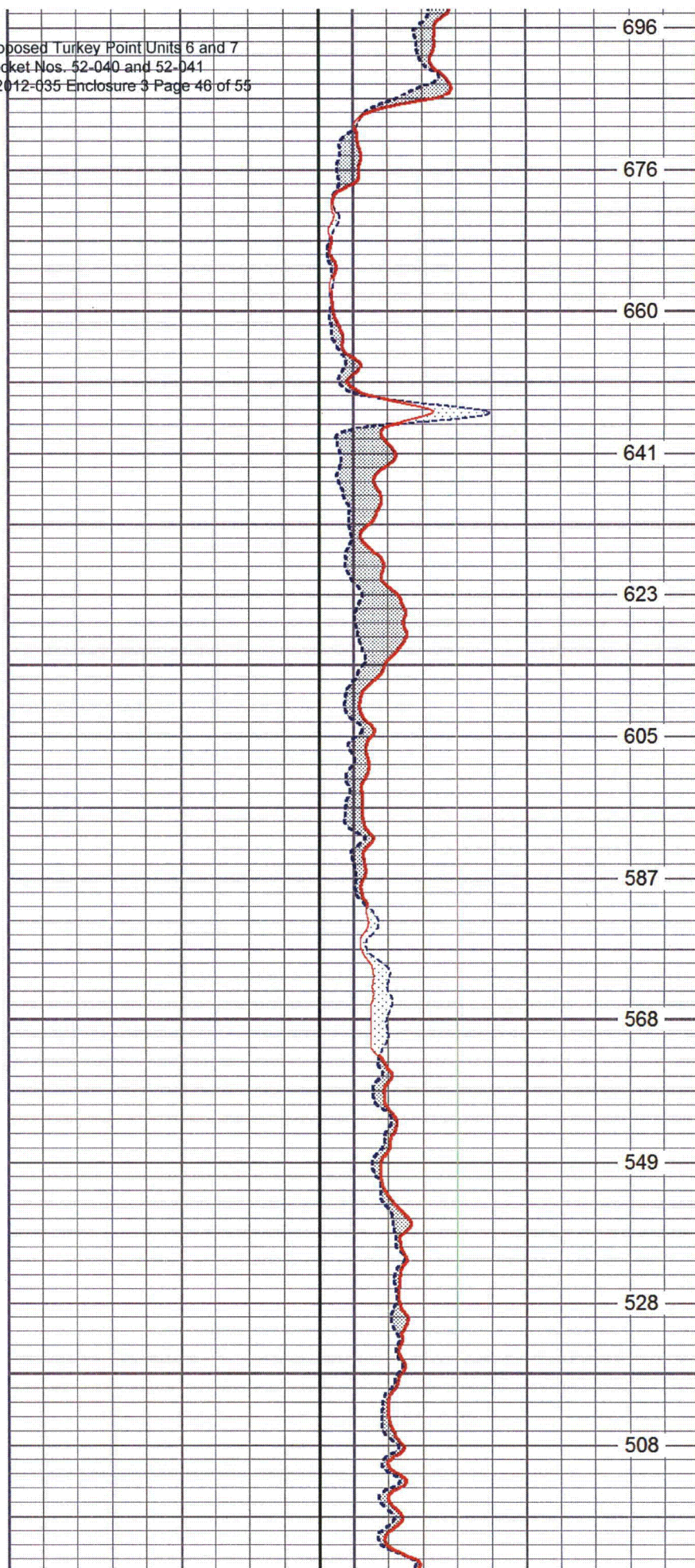


2000

2050

2100

2150



696

676

660

641

623

605

587

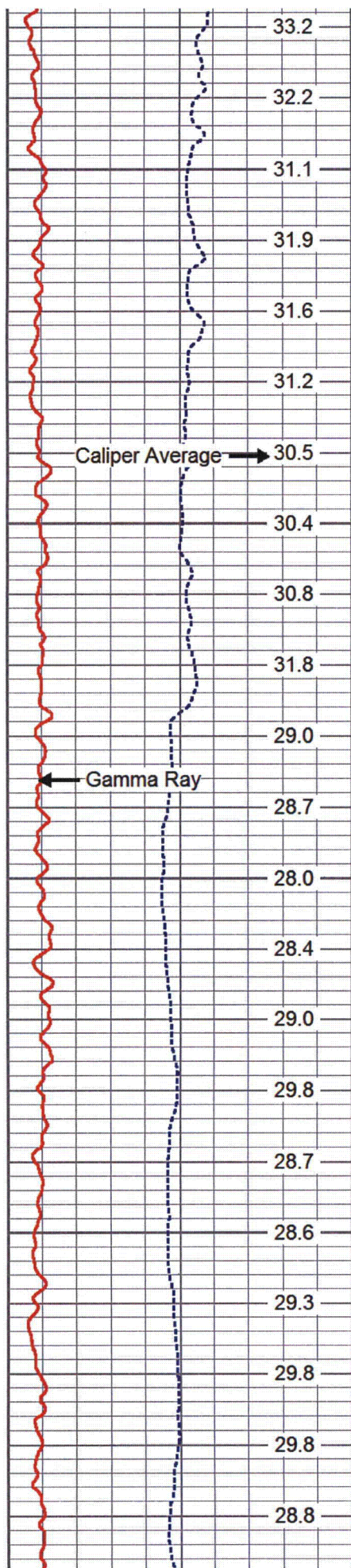
568

549

528

508



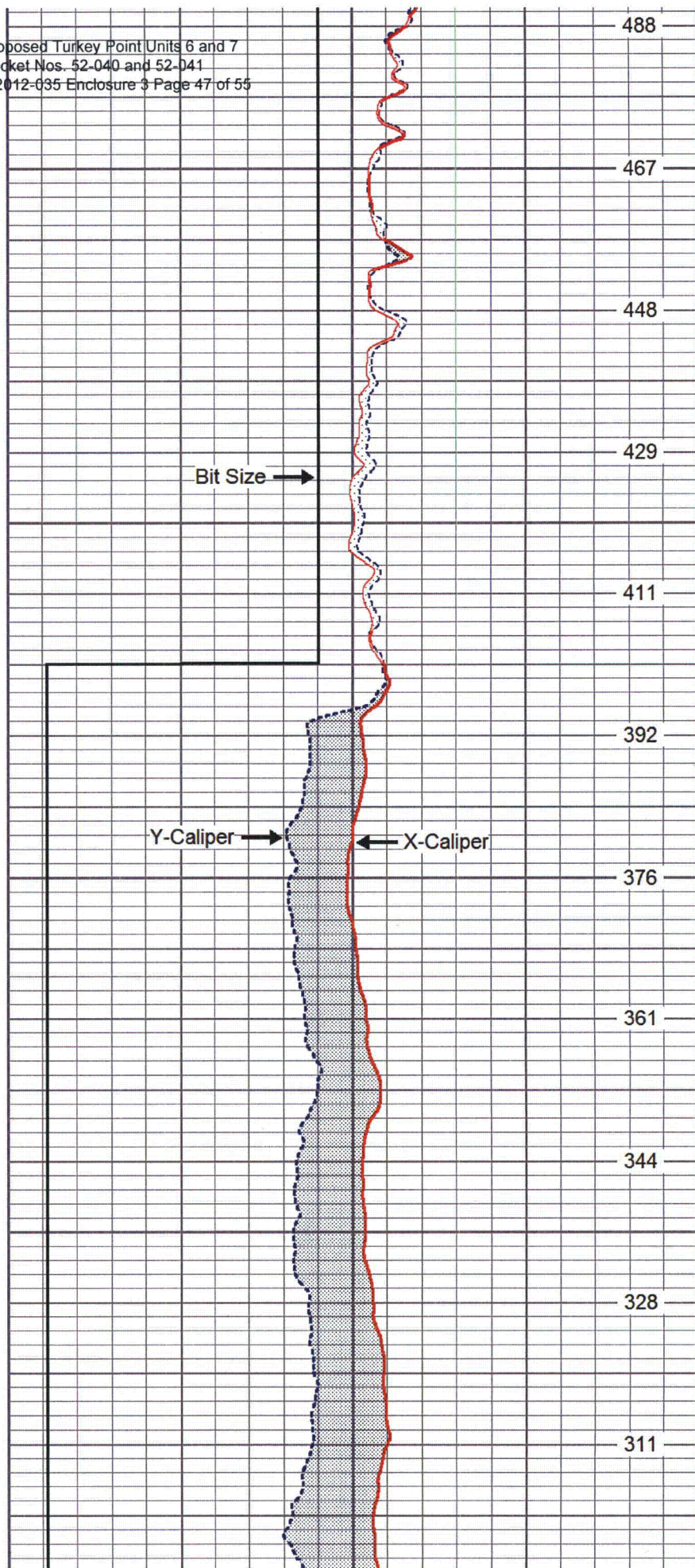


2200

2250

2300

2350



488

467

448

429

411

392

376

361

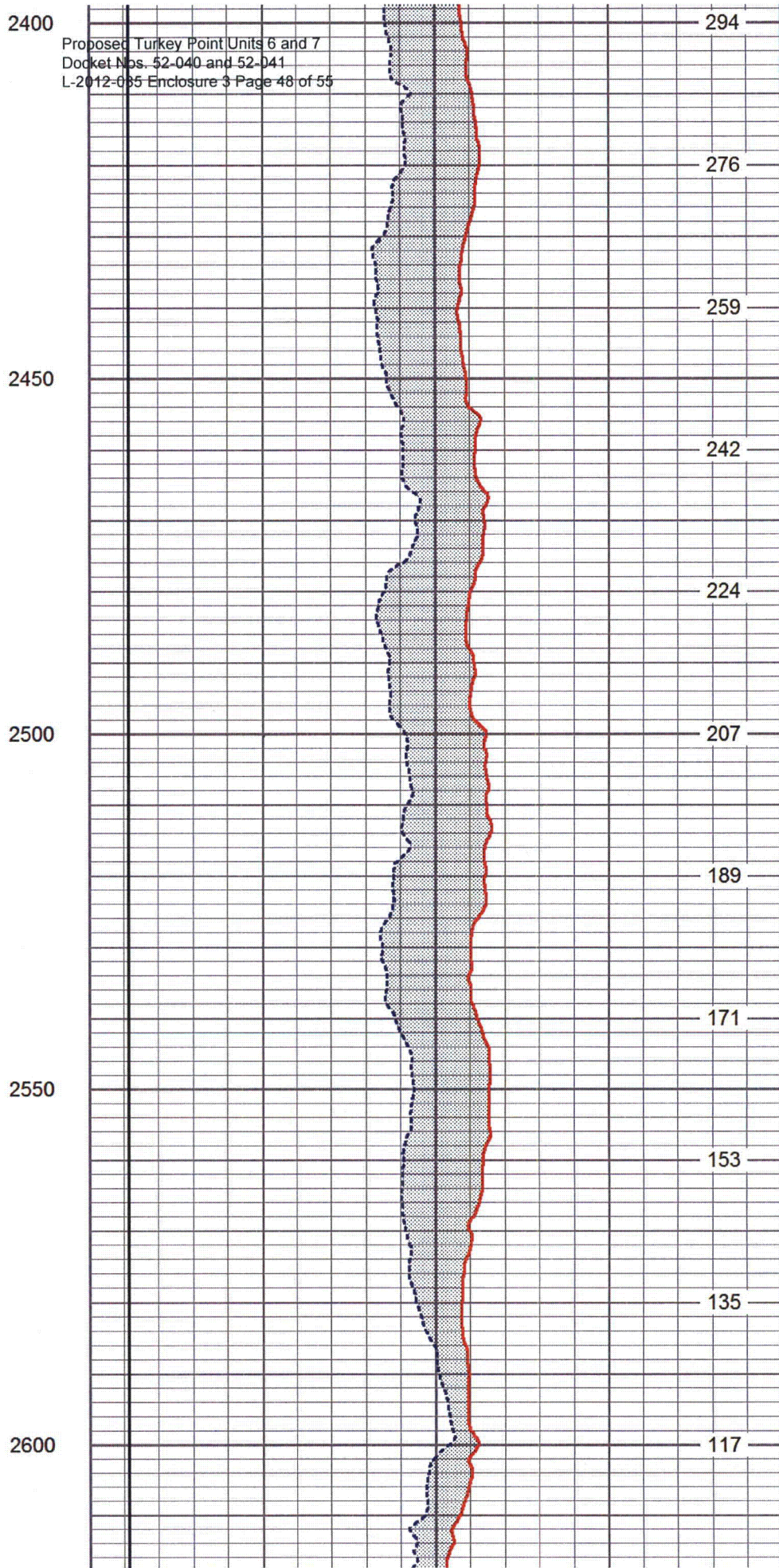
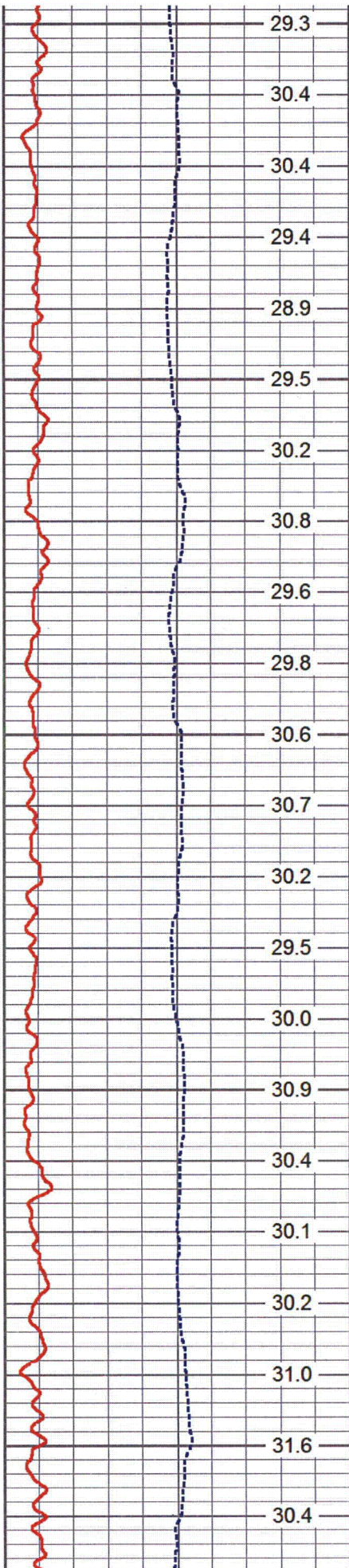
344

328

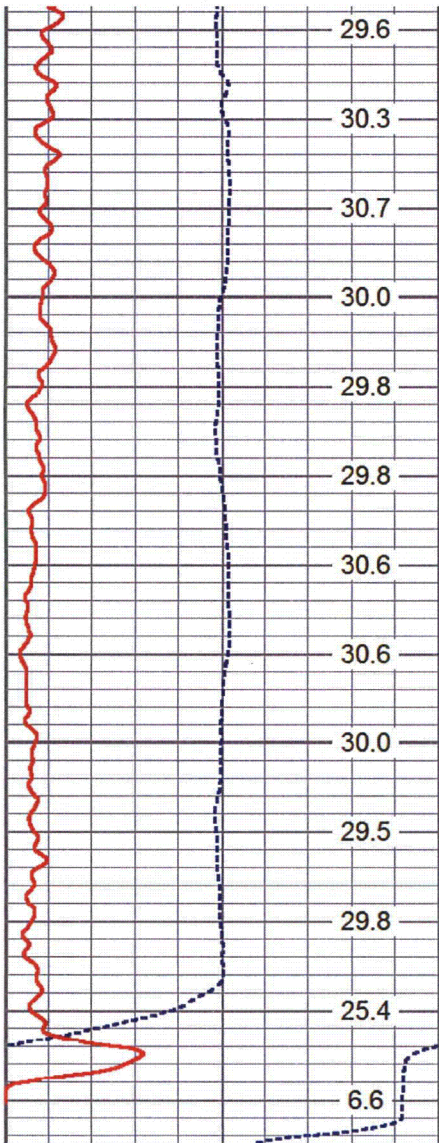
311



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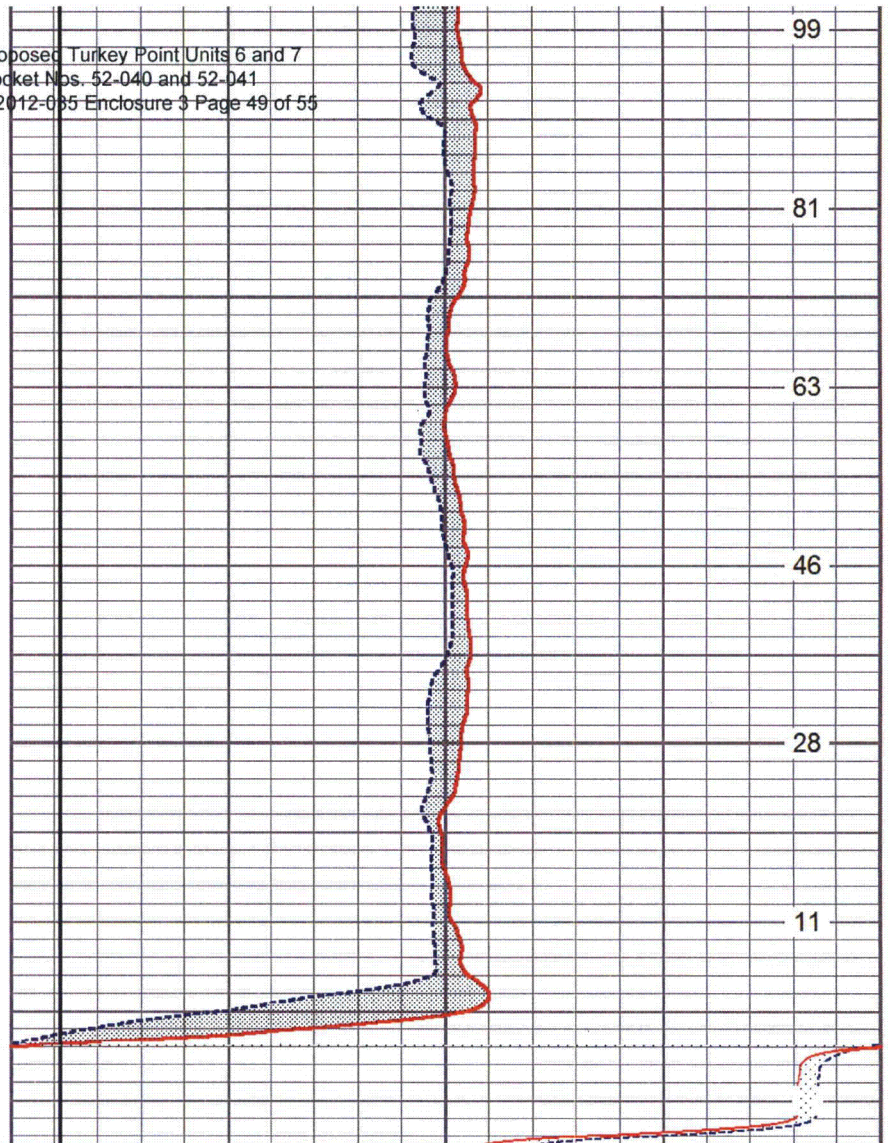






2650

2700



10	Caliper Average (in)	50
0	Gamma Ray (GAPI)	100
	CALA (in)	

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

TBHV  
(bbl)



# REPEAT PASS

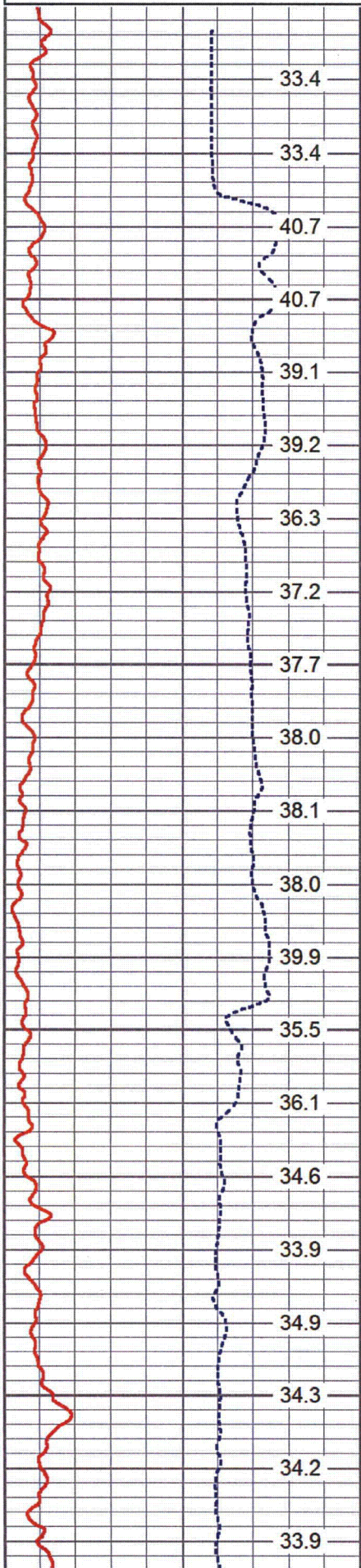
Database File: tpew1.db  
 Dataset Pathname: XYCRP  
 Presentation Format: xyc  
 Dataset Creation: Fri Jan 06 15:34:33 2012 by Log Open-Cased 071220  
 Charted by: Depth in Feet scaled 1:240

10	Caliper Average (in)	50
0	Gamma Ray (GAPI)	100
	CALA (in)	

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

TBHV



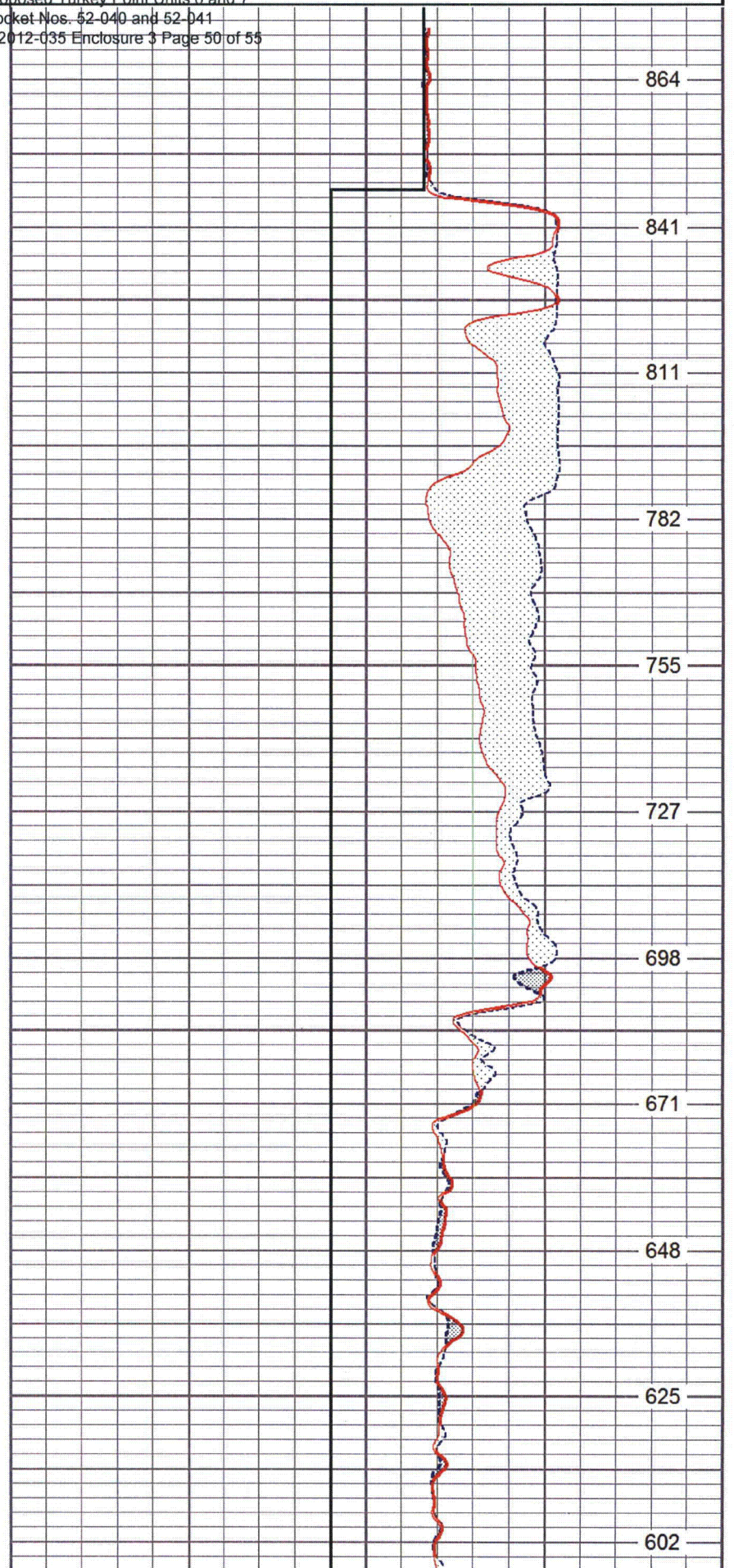


1550

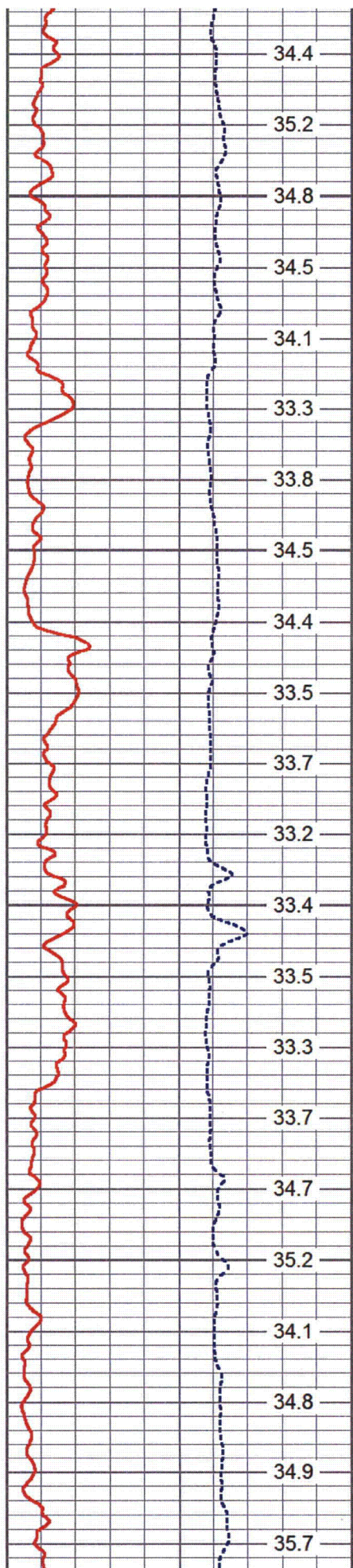
1600

1650

1700





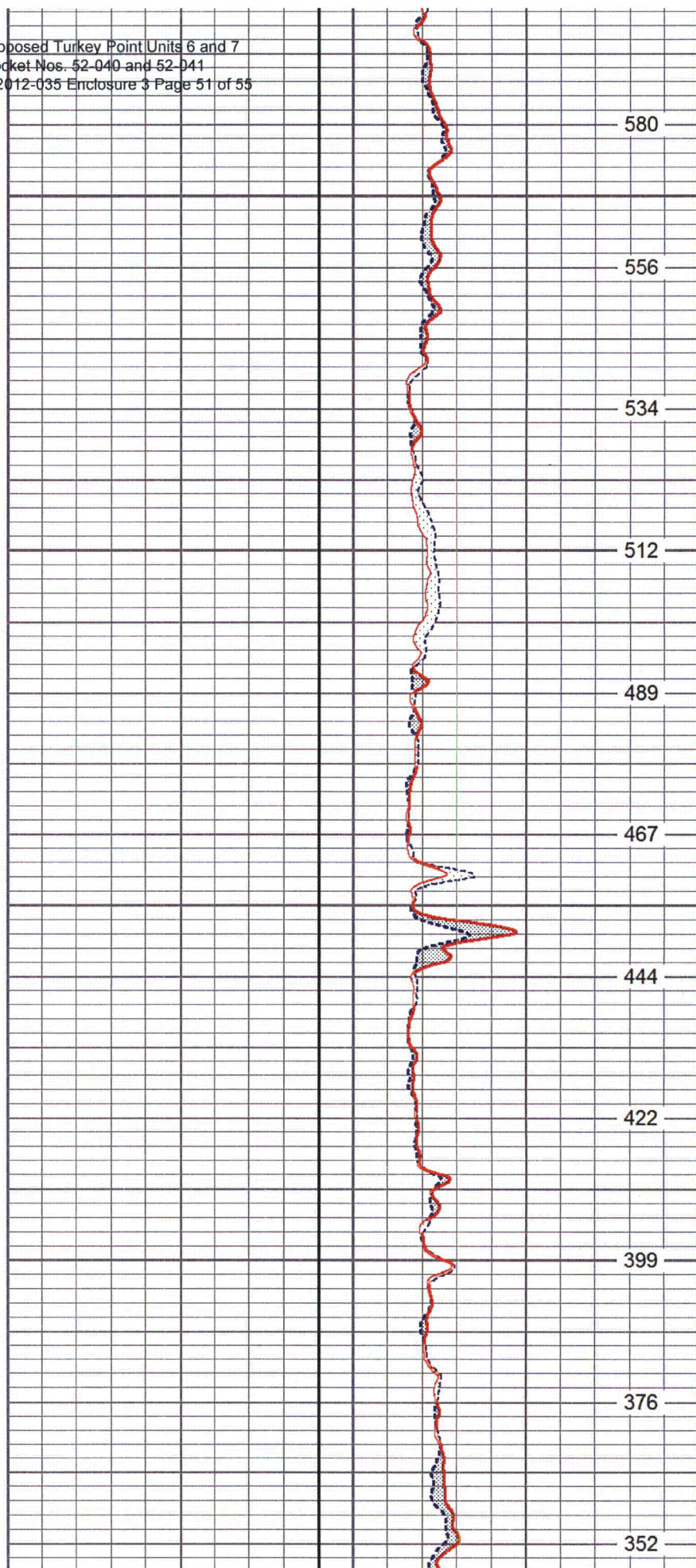


1750

1800

1850

1900



580

556

534

512

489

467

444

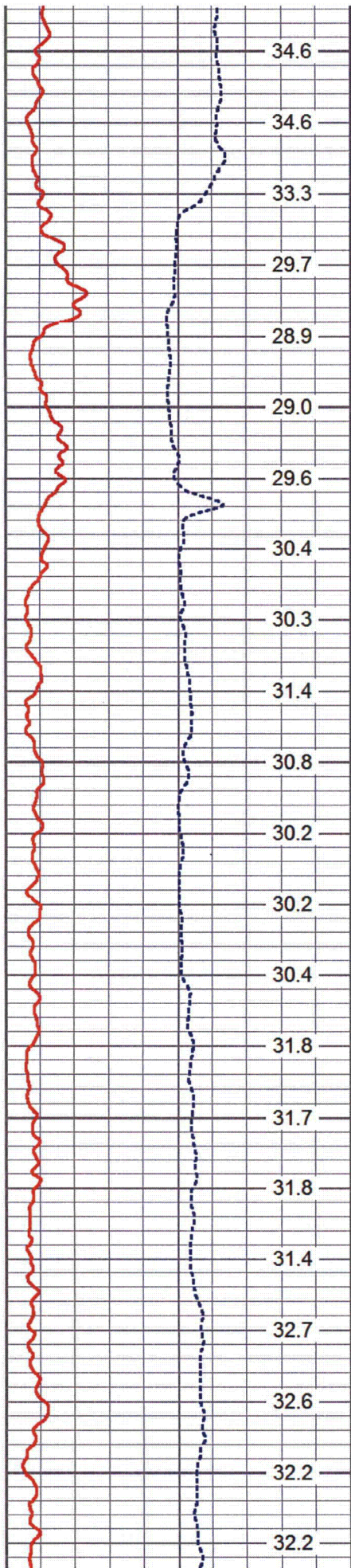
422

399

376

352



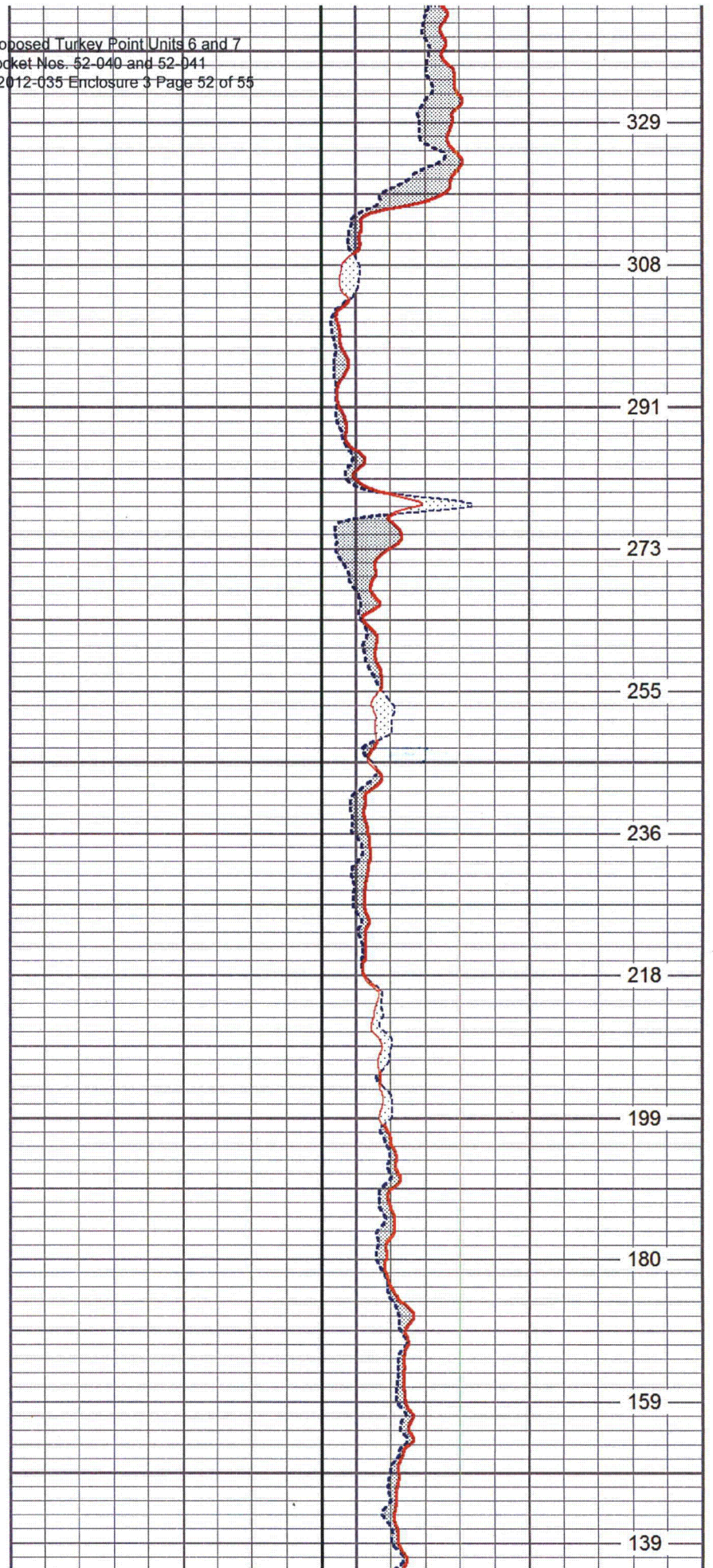


2000

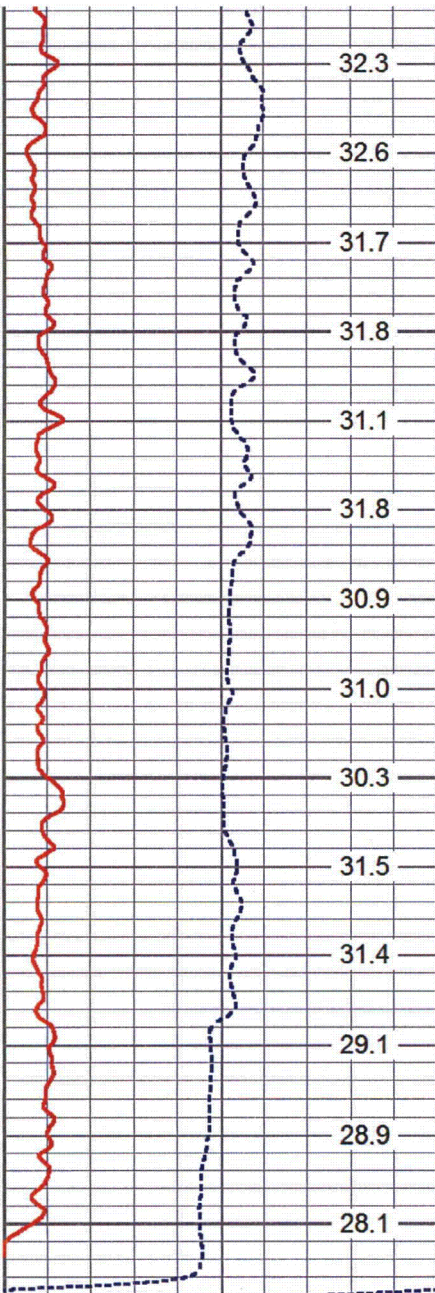
2050

2100

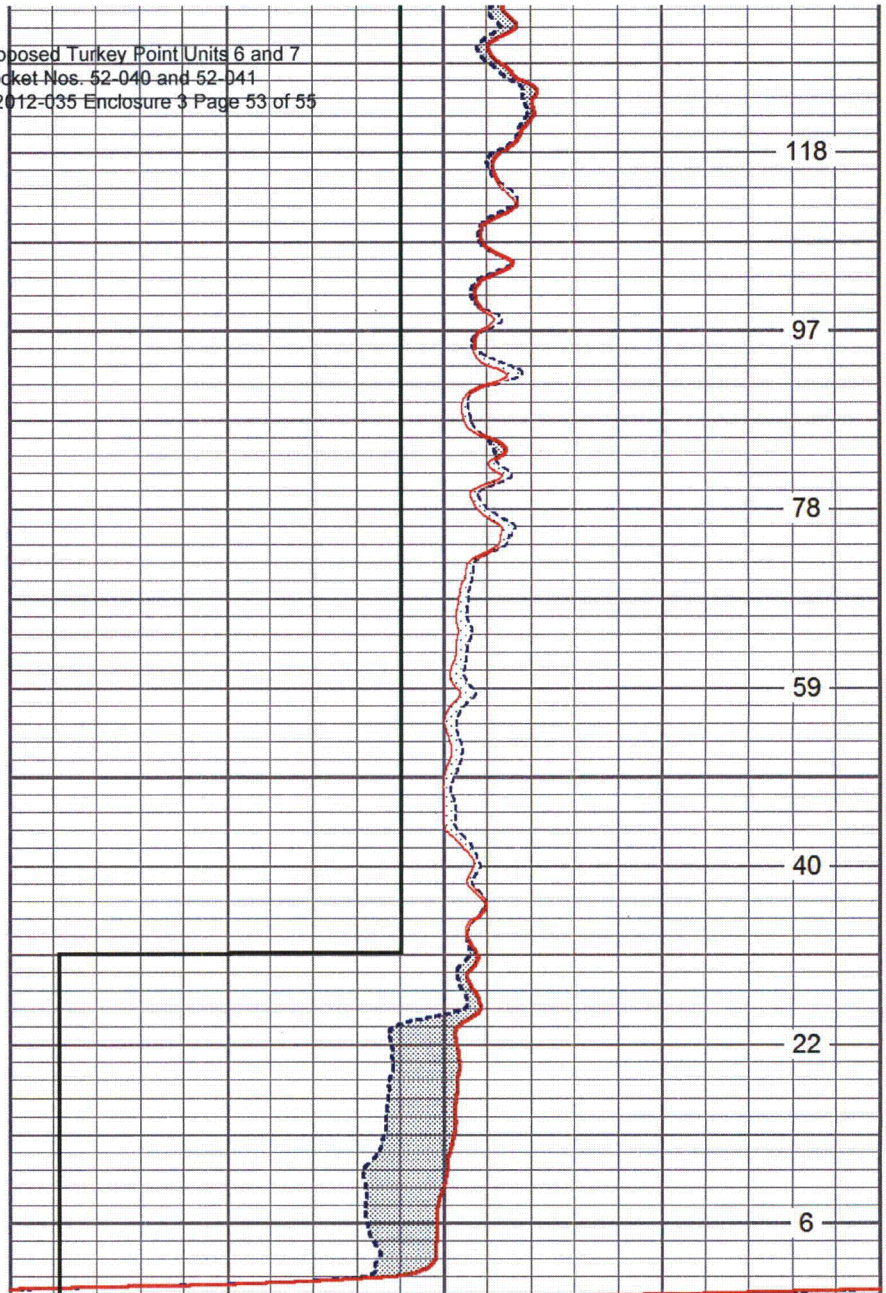
2150







10	Caliper Average (in)	50
0	Gamma Ray (GAPI)	100
	CALA (in)	



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

TBHV  
(bbl)

Calibration Report

Database File: tpew1.db  
 Dataset Pathname: XYCRP  
 Dataset Creation: Fri Jan 06 15:34:33 2012 by Log Open-Cased 071220

XY Caliper Calibration Report

Serial Number/Model: SDSDEMO-XY  
 Performed: Fri Jan 06 15:32:00 2012

Ring	X Caliper	Y Caliper
1- 10 in	395 cps	373 152 cps



1:	10	in	333	cps	373.132	cps
2:	12	in	436.6	cps	417.6	cps
3:	20	in	539.243	cps	531.892	cps
4:	23.25	in	606	cps	585	cps
5:	30	in	709.565	cps	699.891	cps
6:	33.25	in	780	cps	770	cps

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### Gamma Ray Calibration Report

Serial Number: SDS  
Tool Model: SDSGR  
Performed: Fri Jan 06 14:25:33 2012

Calibrator Value: 120.0 GAPI

Background Reading: 117.8 cps  
Calibrator Reading: 585.1 cps

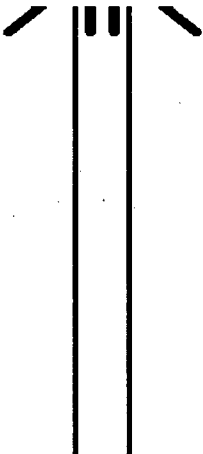
Sensitivity: 0.2568 GAPI/cps

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			CHD-SDSCHD (SDS) Cable Head	1.00	1.50	5.00
			GR-SDSGR (SDS) GR for Testing	3.00	1.69	20.00
GR	7.00		XYC-XY (SDSDEMO) LGL_XYC_MM	6.00	3.50	100.00



XCAL  
YCAL

0.50  
0.50



Dataset:	tpew1.db: field/well/run1/XYCRP
Total Length:	10.00 ft
Total Weight:	125.00 lb
O.D.	3.50 in