



L-2011-219
10 CFR 52.3

June 13, 2011

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 – #1, #2, and #3

Reference:

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

This letter provides the Underground Injection Control (UIC) weekly construction summaries #1 dated May 13, 2011, #2 dated May 20, 2011, and #3 dated May 27, 2011, submitted to the Florida Department of Environmental Protection (FDEP) as discussed in Reference 1.

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

Sincerely,

A handwritten signature in black ink, appearing to read 'William Maher'.

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 #1, dated May 13, 2011
2. Florida Power & Light Company Turkey Point Units 6 & 7 Exploratory Well Project; Permit #0293962-001-UC Weekly Construction Summary #2, dated May 20, 2011

DO97
NRO

Proposed Turkey Point Units 6 and 7
Docket Nos. 52-040 and 52-041
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3. Florida Power & Light Company Turkey Point Units 6 & 7 Exploratory Well Project; Permit #0293962-001-UC Weekly Construction Summary #3, dated May 27, 2011

cc:

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

Proposed Turkey Point Units 6 and 7
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Enclosure 1

Florida Power & Light Company Turkey Point Units 6 & 7
Exploratory Well Project; Permit #0293962-001-UC
Weekly Construction Summary #1 dated May 13, 2011

WEEKLY CONSTRUCTION SUMMARY



McNabb Hydrogeologic Consulting, Inc.

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

May 13, 2011

MHCDEP-11-0169

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 #1**

Dear Mr. May:

This is the first weekly construction summary for the above referenced project. The reporting period for this weekly construction summary began at 6:15 PM (when drilling operations at EW-1 began), Wednesday, May 11, 2011 and ended at 7:00 AM, Thursday, May 12, 2011. For this project, the reporting period for all future weekly construction summaries will begin at 7:00 AM on Thursday and end at 7:00 AM on the following Thursday. Consultant and drilling contractor daily reports were prepared for this reporting period commencing with the initiation of drilling activities. Copies of the consultant and drilling contractor daily construction logs are attached.

During this reporting period, the drilling contractor (Layne Christensen Company) began drilling exploratory well EW-1 using a 12.25-inch diameter drill bit. The interval 33 to 55 feet below pad level (bpl) was drilled during the reporting period. Deviation surveys will be performed on the hole at 90 foot intervals. There were no geophysical logging, coring, packer testing, well development, casing installation or cementing activities. Salt or other material was not used to suppress well flow and there were no construction problems during the reporting period.

During construction of the containment pad on April 14, 2011, when the 64 inch diameter pit pipe was installed to a depth of 30 feet bpl, formation samples were collected from land surface to a depth of 30 feet bpl. Once drilling commenced, formation samples were collected at 10 foot intervals. A lithologic log of formation samples collected during the pit pipe installation (land surface to 30 feet bpl) and formation samples collected during drilling during this reporting period (30 feet bpl to 50 feet bpl) is attached.

During the next reporting period, it is anticipated the Contractor will complete pilot hole drilling to a depth of approximately 250 feet bpl, perform geophysical logging on the pilot

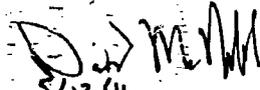
hole, ream the pilot hole, perform geophysical logging on the reamed hole and install and cement the 54-inch diameter casing in place.

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 May 5, 2011. Sampling of the pad monitor wells around EW-1 will continue until drilling and testing of EW-1 has been completed. A copy of the pad monitor wells data summary sheets are attached.

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

Sincerely,

McNabb Hydrogeologic Consulting, Inc.

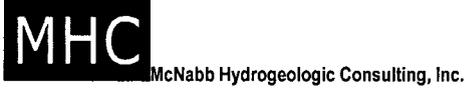


5/13/11
David McNabb, P.G.

Attachments: Consultant Daily Construction Log
Contractor's Daily Construction Log
Lithologic Log
Pam Monitor Well Summary Sheets

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

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



Daily Construction Log

Date: May 11, 2011
Project: FPL Turkey Point EW
Contractor: Layne Christensen Company
Starting Depth: 34 feet bpl
Weather Day: Clear, Humid, Hot
Weather Night: Partly Cloudy, Warm
Activity: Pilot Hole Drilling

FDEP UIC Permit #: 0293962-001-UC
Well No.: EW-1
Bit Diameter: 12 1/4-inch
Ending Depth: feet bpl
Recorded By: Deborah Daigle/Sally Durall

CONSTRUCTION ACTIVITIES

- 1740 Sally Durall arrives on site. The Contractor is circulating the mud in the borehole.
- 1815 The Contractor begins drilling the pilot hole from a depth of approximately 34 feet bpl.
- 2015 Drilling at 37 feet bpl.
- 2115 IDS Technician (Alan Mooney) is on site to check that the geograph data is recording accurately.
- 2145 The geograph is recording accurately, Alan Mooney is off site. Drilling at 38 feet bpl.
- 2330 Drilling at 39 feet bpl. The weight on bit (WOB) is approximately 2,000 pounds, Rotations per minute (RPM) is approximately 10 RPM, and the penetration rate is approximately 3 feet per minute (fpm).
- 0040 Drilling at 42 feet bpl. The current WOB is 1,000 pounds, 12 RPMs, and the penetration rate is approximately 2.5 fpm.
- 0230 Drilling at 46 feet bpl.
- 0340 Drilling at 49 feet bpl.
- 0420 Drilling at 50 feet bpl.
- 0455 Drilling at 51 feet bpl. The current WOB is 2,000 pound, 11 RPMs, and the penetration rate continues at approximately 2.5 fpm.
- 0545 Deborah Daigle on site. Discuss status of drilling with Sally Durall.
- 0605 Sally Durall off site.
- 0700 Contractor day crew arrives on site, drilling depth at 55 feet bpl.

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

Project: Florida Power & Light Company Miami-Dade County, Florida 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	
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	

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							
Lithologic Description							
Date	Depth (ft. bpl)		Observer's Description				
	From	To					
4/14/2011	0	5	Limestone and Sand (fill material): yellowish gray (5Y 8/1), calcareous, silty, trace shell fragments.				
4/14/2011	5	10	Limestone, Sand, and Muck: Limestone and Sand (fill material), 50%, yellowish gray (5Y 8/1), calcareous, silty, trace shell fragments; Muck, brownish black (5YR 2/1) to brownish gray (5YR 4/1). Note: Samples collected during pit casing installation via auger drilling. The top of the muck was encountered at approximately 7.5 feet below land surface.				
4/14/2011	10	15	Limestone: 100%, yellowish gray (5Y 8/1), calcareous, trace very fine angular quartz sand. Note: Samples collected during pit casing installation via auger drilling. Limestone encountered at 12 feet below land surface.				
4/14/2011	15	20	Limestone: 100%, yellowish gray (5Y 8/1), calcareous, trace very fine angular quartz sand. Note: Samples collected during pit casing installation via auger drilling.				
4/14/2011	20	25	Limestone: 100%, yellowish gray (5Y 8/1), calcareous, trace very fine angular quartz, sand and shell. Note: Samples collected during pit casing installation via auger drilling.				
4/14/2011	25	30	Limestone: 100%, yellowish gray (5Y 8/1), calcareous, trace very fine angular quartz, sand and shell. Note: Samples collected during pit casing installation via auger drilling.				
5/12/2011	30	40	Limestone: 100%, yellowish gray (5Y 8/1), calcareous, fine grained, sand and shell.				
5/12/2011	40	50	Limestone 100%, yellowish gray (5Y 8/1), white (N9), and very light gray (N8) to light gray (N7), fine grained, rounded quartz sand and abundant shell fragments. Soft, wet.				

ft. bpl = feet below pad level

Enclosure 2

Florida Power & Light Company Turkey Point Units 6 & 7
Exploratory Well Project; Permit #0293962-001-UC
Weekly Construction Summary #2 dated May 20, 2011

Note

Pages 34 through 42 were originally part
of a single strip chart that has been
segmented to 8.5 by 11 pages for
processing

WEEKLY CONSTRUCTION SUMMARY



McNabb Hydrogeologic Consulting, Inc.

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

May 20, 2011

MHCDEP-11-0180

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 #2**

Dear Mr. May:

This is the second weekly construction summary for the above referenced project. The reporting period for this weekly construction summary began at 7:00 AM, Thursday, May 12, 2011 and ended at 7:00 AM, Thursday, May 19, 2011. Consultant and drilling contractor daily reports were prepared for this reporting period. Copies of the consultant and drilling contractor daily construction logs are attached.

During the previous reporting period, the drilling contractor (Layne Christensen Company) began drilling a pilot hole via the mud rotary drilling method using a 12 ¼-inch diameter drill bit. The pilot hole was drilled from a depth of 33 feet to 55 feet below pad level (bpl).

During this reporting period, the drilling contractor continued drilling the pilot hole from a depth of 55 feet to 255 feet bpl. Lost circulation was encountered while drilling the interval from approximately 33 feet bpl to 177 feet bpl. Based on review of the drill cutting sample, we expect that the lost circulation is present between 33 feet bpl and 120 feet bpl. Upon completion of drilling the pilot hole to 255 feet bpl, the geophysical logging sub-contractor performed gamma-ray and caliper logging. The geophysical log is attached. Based on the results of the geophysical logging and the lithology, a 54-inch diameter casing setting depth of between 240 feet bpl and 250 feet bpl will be selected depending on field conditions. The drilling contractor then began to ream the pilot hole using a 62 ½-inch diameter drill bit. The interval from 33 feet to 61 feet bpl was reamed during this reporting period. Deviation surveys were performed on the pilot hole at 90 foot intervals. A deviation survey summary sheet is attached. Formation samples were collected at 10 foot intervals. A lithologic log of formation samples is attached.

There were no coring, packer testing, well development, casing installation or cementing activities. Salt or other materials were not used to suppress well flow and there were no construction related issues during the reporting period.

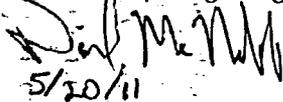
During the next reporting period, it is anticipated that the drilling contractor will complete reaming of the pilot hole to a depth of approximately 255 feet bpl, perform geophysical logging on the reamed borehole, install and cement the 54-inch diameter casing in place, and begin the next phase of pilot hole drilling.

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 most recent set of pad monitoring well sample results available is for samples collected on May 11, 2011.. Sampling of the pad monitor wells around EW-1 will continue until drilling and testing of EW-1 has been completed. Copies of the pad monitor wells data summary sheets are attached.

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

Sincerely,

McNabb Hydrogeologic Consulting, Inc.



5/20/11

David McNabb, P.G.

Attachments: Consultant Daily Construction Log
Contractor's Daily Construction Log
Lithologic Log
Pad Monitor Well Summary Sheets

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

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



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Daily Construction Log

Date: May 12, 2011
Project: FPL Turkey Point EW
Contractor: Layne Christensen Company
Starting Depth: 55 feet bpl
Weather Day: Clear, Humid, Hot
Weather Night: Partly Cloudy, Warm
Activity: Pilot Hole Drilling

FDEP UIC Permit #: 0293962-001-UC
Well No.: EW-1
Bit Diameter: 12 ¼-inch
Ending Depth: 103 feet bpl
Recorded By: Deborah Daigle/Sally Durall

CONSTRUCTION ACTIVITIES

- 0700 The drilling contractor day crew arrives on site, drilling depth at 55 feet below pad level (bpl). The drilling contractor is drilling at a rate of approximately 3 feet per hour (fph).
- 0930 Drilling has reached a depth of 60 feet bpl. Sample is brought to trailer by the drilling contractor for description by D. Daigle.
- 1230 Drilling has reached a depth of 70 feet bpl. The drilling contractor is experiencing mud losses in hole.
- 1235 The drilling contractor will stop drilling to fix depth indicator on readout screen. Will also bleed air out of hydraulic line to weight on bit (WOB) indicator.
- 1700 Worked out issues with depth indicator and WOB, add drill pipe, and begin circulating mud to resume drilling.
- 1830 Sally Durall on site. The Contract resumes drilling the pilot hole from 70 feet bpl.
- 1800 Deborah Daigle off site.
- 1805 Drilling the pilot hole at 73 feet bpl.
- 1915 The drilling contractor is conducting a tail gate safety meeting. The subject is trenching and shoring.
- 1925 Drilling the pilot hole at 78 feet bpl. The current WOB is 3,000 pounds, 10 rotations per minute (RPM), and the penetration rate is approximately 2.5 fph.
- 2015 Drilling the pilot hole at 80 feet bpl.
- 2130 Drilling the pilot hole at 85 feet bpl. WOB is 4,000 pounds, 10 RPM, and the penetration rate is approximately 5 fph.
- 2245 Drilling the pilot hole at 89 feet bpl. WOB is 3,000 pounds, 10 RPM, and the penetration rate is approximately 3 fph.
- 2350 Drilling the pilot hole at 92 feet bpl.
- 0055 Drilling the pilot hole at 95 feet bpl.
- 0230 Drilling the pilot hole at 98 feet bpl. Drilling in a harder formation. WOB is 7,000 pounds, 9 RPMs and the penetration rate is approximately 2 fph.
- 0325 Drilling the pilot hole at 100 feet bpl.
- 0415 Drilling the pilot hole at 102 feet bpl. WOB is 7,000 pounds, 8 RPMs and the penetration rate is approximately 2 fph.



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- 0505 Drilling the pilot hole at 103 feet bpl.
- 0520 The Kelly is down at 103.75 feet bpl. The drilling contractor is circulating the borehole clean.
- 0535 The drilling contractor disconnects the drill pipe and runs the deviation tool inside the drill pipe to 90 feet bpl.
- 0545 Deborah Daigle on site.
- 0605 Sally Durall off site.
- 0700 The drilling contractor day crew on site, perform safety meeting.



Daily Construction Log

Date: May 13, 2011
Project: FPL Turkey Point EW
Contractor: Layne Christensen Company
Starting Depth: 103 feet bpl
Weather Day: Clear, Humid, Hot
Weather Night: Partly Cloudy, Warm
Activity: Pilot Hole Drilling

FDEP UIC Permit #: 0293962-001-UC
Well No.: EW-1
Bit Diameter: 12 1/4-inch
Ending Depth: 145 feet bpl
Recorded By: Deborah Daigle/Sally Durall

CONSTRUCTION ACTIVITIES

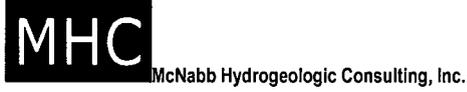
- 0700 The drilling contractor day crew on site, perform safety meeting. Add pipe down to 103 feet below pad level (bpl) and prepare to circulate mud. The result of first deviation survey at 90 feet is 0.2 degrees, which is within the specification of no greater than 45 minutes of 1 degree, or 0.75 degrees.
- 0800 Drilling at 105 feet bpl. Drilling at approximately 7 feet per hour. Weight on bit (WOB) is about 1,000 lbs.
- 0920 116 ft bpl, drilling at approximately 10 ft/hour.
- 0930 Two joints of 54-inch casing arrive on site.
- 1000 Drilling at 120 ft bpl, approximately 7 feet per hour.
- 1030 Clay noted in cuttings at 122 ft bpl.
- 1100 Two joints of off-spec 54-inch casing removed from site.
- 1300 Drilling at 135 ft bpl, drilling rate is approximately 7 ft/hour. Stop to add drill pipe and mix, circulate mud. Mud is being lost to the formation, so the drilling contractor is filling mud system and making sure mud viscosity is up.
- 1500 Check heat numbers on 54" pipe and verify that they match mill certs. All pipe on sites matches approved mill certifications.
- 1525 Drilling at 140 ft bpl.
- 1600 Mud circulation is not getting to hole; will have to trip out of hole and check to see if bit is clogged.
- 1715 Gray-green clayey silt on bit; trip back into hole.
- 1745 Sally Durall on site.
- 1810 Deborah Daigle off site.
- 1900 Mud is being lost to the formation. The drilling contractor continues mixing mud.
- 2015 The bit is at the bottom of the hole at approximately 145 feet bpl.
- 2040 The bit is plugged off again. The drilling contractor begins to trip back out of the borehole to unclog the bit.
- 2300 The drilling contractor continues to trip out of the borehole.
- 2345 The bit is on the rig floor. The drilling contractor begins to clean the clay off the bit.



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- 0015 The drilling contractor begins to trip the bit in the borehole.
- 0145 The drilling contractor is circulating the hole at approximately 139 feet bpl.
- 0230 The drilling contractor is not able to break circulation.
- 0315 The drilling contractor trips the bit to approximately 50 feet bpl.
- 0400 Trip the bit back to approximately 139 feet.
- 0515 The drilling contractor continues to work with the mud system.
- 0545 Deborah Daigle on site.
- 0600 Sally Durall off site.
- 0615 Resume drilling at 145 ft bpl.
- 0700 Day drilling contractor crew on site; drilling at 160 feet bpl, still in clayey silt.



Daily Construction Log

Date: May 14, 2011
Project: FPL Turkey Point EW
Contractor: Layne Christensen Company
Starting Depth: 145 feet bpl
Weather Day: Clear, Humid, Hot
Weather Night: Clear, warm
Activity: Pilot Hole Drilling

FDEP UIC Permit #: 0293962-001-UC
Well No.: EW-1
Bit Diameter: 12 ¼-inch
Ending Depth: 255 feet bpl
Recorded By: Deborah Daigle/Sally Durall

CONSTRUCTION ACTIVITIES

- 0700 The drilling contractor day crew on site; drilling at 160 feet below pad level (bpl), still in clayey silt.
- 0800 Drilling has reached a depth of 177 feet below pad level bpl.
- 0915 Drilling at 186 ft bpl, able to drill at approximately 20 ft/hr in silt.
- 1000 The drilling contractor stopped drilling to mix mud, hole is losing mud.
- 1430 The drilling contractor still mixing mud to maximize quantities and optimize mix in preparation for drilling.
- 1525 Resume drilling at 186 ft bpl, resume sampling of cuttings
- 1730 Drilling at 220 feet bpl.
- 1741 Deviation survey tool lowered in hole. Set for 15 minutes.
- 1745 Sally Durall on site.
- 1800 Deborah Daigle off site.
- 1815 Resume drilling from 222 feet bpl. The deviation survey result at 180 feet bpl is 0.4 degrees.
- 1845 Drilling the pilot hole at 228 feet bpl. The penetration rate is approximately 19 feet per hour.
- 2000 Drilling has reached a depth of 251 feet bpl.
- 2015 The pilot hole has reached a total depth of 255 feet bpl. The drilling contractor will condition the borehole throughout the evening in preparation for geophysical logging. The geophysical logging is scheduled for 0700 tomorrow morning.
- 0050 The drilling contractor continues conditioning the borehole by performing wiper trips. The drilling bit is currently at the total depth of the pilot hole at 255 feet bpl.
- 0545 Deborah Daigle on site.
- 0605 Sally Durall off site
- 0655 The geophysical logging sub-contractor (MV Geophysical) is on site.
- 0700 Set up for logging, gamma and caliper to be performed.



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Daily Construction Log

Date: May 15, 2011
Project: FPL Turkey Point EW
Contractor: Layne Christensen Company
Starting Depth: 255 feet bpl
Weather Day: Cloudy, Rain, Warm
Weather Night: Clear, warm
Activity: Logging/Repairs

FDEP UIC Permit #: 0293962-001-UC
Well No.: EW-1
Bit Diameter: NA
Ending Depth: 255 feet bpl
Recorded By: Deborah Daigle/Sally Durall

CONSTRUCTION ACTIVITIES

- 0700 The drilling contractor day crew on site; pilot hole drilling completed at 255 feet below pad level (bpl). MV Geophysical is onsite and setting up for logging.
- 0715 Commence gamma and caliper logging on pilot hole.
- 0830 Logging complete, email logs to Dave McNabb for review.
- 0915 The drilling contractor has been instructed to set the 54-inch casing to a depth of 240 feet or deeper. The drilling contractor is waiting for electrician to fix the large electrical cable that runs the top head that was broken on the rig this morning before reaming can begin.
- 1100 Electrician on site to work on broken cable.
- 1200 The drilling contractor is shut down due to lightning.
- 1400 The drilling contractor resumes working on the top head cable.
- 1730 The drilling contractor is still working on the electrical cable.
- 1745 Sally Durall on site.
- 1810 Deborah Daigle off site.
- 1945 Repairs to the electrical cable are complete.
- 2010 The 62 1/2-inch diameter bit is on the rig floor. The drilling contractor begins to rig up for reaming the pilot hole.
- 2130 The drilling contractor is shut down due to lightening. The drilling contractor has also called the electrician in for the rig to be checked out due to it is not running at full capability according to the driller.
- 0115 The electrician is on site to inspect/repair the rig.
- 0430 Repair is complete. The epoxy used to repair the cable will have to set for approximately 3 hours before the rig can resume drilling.
- 0545 Deborah Daigle on site.
- 0600 Sally Durall off site.
- 0700 The drilling contractor day crew has taken over operations. Still waiting for epoxy to dry on cable.



McNabb Hydrogeologic Consulting, Inc.



Daily Construction Log

Date: May 16, 2011

Project: FPL Turkey Point EW

Contractor: Layne Christensen Company

Starting Depth: 255 feet bpl

Weather Day: Partly Cloudy, Warm

Weather Night:

Activity: Repairs

FDEP UIC Permit #:0293962-001-UC

Well No.: EW-1

Bit Diameter: NA

Ending Depth: 255 feet bpl

Recorded By: Deborah Daigle

CONSTRUCTION ACTIVITIES

- 0700 The drilling contractor day crew has taken over operations. The contractor is still waiting for epoxy to dry on cable before trying to run rig.
- 0715 The drilling contractor performs site safety meeting.
- 0800 The drilling contractor still experiencing problems with the drive head electrical. They will continue to work on the problem until solved.
- 1700 The drilling contractor still working on electrical line to top head. Unexplained electrical arc is occurring in the top head when it is engaged. So far the drilling contractor is unable to identify the cause of this arc.
- 1800 Deborah Daigle off site. Sally Durall will wait for a call from the drilling contractor when electrical problem is fixed before coming to site for night shift.
- 0700 Deborah Daigle on site. The drilling contractor has fixed electrical issue last night and added weight to bottom hole assembly. Preparing to begin reaming 62 ½ inch hole.



McNabb Hydrogeologic Consulting, Inc.



Daily Construction Log

Date: May 17, 2011
Project: FPL Turkey Point EW
Contractor: Layne Christensen Company
Starting Depth: 33 feet bpl
Weather Day: Partly Cloudy, Warm
Weather Night: Clear, Warm, Windy
Activity: Reaming

FDEP UIC Permit #: 0293962-001-UC
Well No.: EW-1
Bit Diameter: 62 ½-inch
Ending Depth: 44.7 feet bpl
Recorded By: Deborah Daigle/Sally Durall

CONSTRUCTION ACTIVITIES

- 0700 Deborah Daigle on site. The drilling contractor has fixed electrical issue last night and added weight to bottom hole assembly. Preparing to begin reaming 62 ½ inch hole.
- 0820 The drilling contractor begins reaming hole. Starting depth 31.84 ft below pad level (bpl).
- 1200 Reaming at 34 feet bpl.
- 1700 Reaming at 37 feet bpl.
- 1745 Sally Durall on site.
- 1800 Deborah Daigle off site.
- 1810 Reaming at 38 feet bpl. Weight on bit (WOB) is 16,000 pounds. The penetration rate is approximately 1 foot per hour.
- 1930 Reaming at 39 feet bpl.
- 2100 Reaming at 40 feet bpl.
- 2215 Reaming at 41 feet bpl.
- 2345 Reaming at 41.5 feet bpl. WOB is 16,000 pounds.
- 0045 Reaming at 42 feet bpl.
- 0215 Reaming at 42 feet bpl. The drilling contractor increased the WOB to 18,000 pounds.
- 0430 Reaming at 43 feet bpl. WOB is 25,000 pounds. The penetration rate is approximately 0.5 foot per hour.
- 0530 Reaming at 44 feet bpl.
- 0545 Deborah Daigle on site.
- 0600 Sally Durall off site.
- 0700 The drilling contractor day crew on site. Reaming has reached a depth of 44.7 feet bpl.



McNabb Hydrogeologic Consulting, Inc.



Daily Construction Log

Date: May 18, 2011
Project: FPL Turkey Point EW
Contractor: Layne Christensen Company
Starting Depth: 44.7 feet bpl
Weather Day: Sunny, PM Rain, Warm
Weather Night: Cloudy, Lt. Rain
Activity: Reaming

FDEP UIC Permit #: 0293962-001-UC
Well No.: EW-1
Bit Diameter: 62 ½-inch
Ending Depth: 61.8 feet bpl
Recorded By: Deborah Daigle/Sally Durall

CONSTRUCTION ACTIVITIES

0700 Reaming at 44.7 feet below pad level (bpl). The drilling contractor is making a shift change and conducting a safety meeting.

0930 Reaming at 46 feet bpl.

1200 Reaming at 47.86 ft bpl. The weight on bit (WOB) is approximately 23,000 pounds. Drilling penetration rate is approximately 0.75 feet per hour (ft/hr).

1500 Reaming at 49.9 feet bpl.

1515 Raining on site, no lightning.

1630 Reaming at 50.6 ft bpl.

1730 Reaming at 51.1 ft bpl

1745 Sally Durall on site.

1800 Deborah Daigle off site.

1810 Reaming at 51.5 feet bpl.

1900 The drilling contractor is undergoing a shift change and conducting a safety meeting.

2015 Reaming at 53 feet bpl.

2230 Reaming at 55 feet bpl.

0030 Reaming at 56.5 feet bpl.

0200 Reaming at 58 feet bpl. The WOB is approximately 17,000 pounds.

0430 Reaming at 60 feet bpl. The WOB is approximately 8,000 pounds.

0530 Reaming at 61 feet bpl.

0535 Eric Meyer on site.

0620 Sally Durall off site. The WOB is approximately 11,000 pounds with slow and steady progress of less than 1 foot per hour.

0700 Reaming at 61.8 feet bpl with WOB of 15,000 pounds. Four linear shakers and one desander are in operation; the penetration rate for drilling operations is being maintained to keep the drilling mud weight at 9.0 pounds per gallon (lb/gal) or less; the penetration rate is approximately 0.8 ft/hr.



LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT Proposed Turkey Point Units 6 and 7
Docket Nos. 52-040 and 52-041
L-2011-219 Enclosure 2 Page 15 of 42

DATE 5-13-11
FRI DAYS

JOB # 11771

JOBSITE NAME EPL

LOCATION/TOWN TP

PERSONNEL EMPLOYED TODAY

Table with columns: Crew Assignment, Employee - Full Name, Per Diem?, Onsite Hours, Offsite Hours, Total Hours. Lists employees: Danny Keeley (Driver), James Payne, Mike Ramirez, Isaac Vaca, ANDREY - FURUV, BOB FEETHAM.

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 #

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

MATERIALS USED TODAY

Table with columns: Quantity, Description. Contains handwritten notes: SAFETY MEETING, I am looking out for new hands, 1 PM RENCH POINTS ON CANNON RIG, 1 WELDER, HIT CLAY @ 123 BPL, LOS CIRCULATION 136 BPL.

TIME OF ACTIVITY BY ITEM #

Table with columns: Item #, From, To, Circ On, Item #. Lists time intervals for various items.

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

Drill 12 1/4 PILOT FROM 103 BPL - 133 BPL CONNECTION
CONTINUE DRILLING 133 BPL - 145 BPL
CONDITIONS SATISFACTORY DRILLED 2 1/2
JUST ABOUT TIME TO UNPLUG BIT.



LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

Proposed Turkey Point Units 6 and 7

Docket Nos. 52-040 and 52-041

L-2011-210 Enclosure 2 Page 22 of 42

DATE 5-16-2011

JOB # 11771

JOB SITE NAME

JOB SITE LOCATION

PERSONNEL EMPLOYED TODAY

Table with columns: Crew Assignment, Employee - Full Name, Per Diem? (X), Onsite Hours, O/Site Hours, Total Hours. Includes names like George Hagg (Driller), Rossie Culamov, VLAD ISHIMOV, TIGOR POPOV, Lathawiel Saddler.

EQUIPMENT DEPLOYED TODAY

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

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, Site Mobilization, Safety Meeting, etc.

MATERIALS USED TODAY

Table with columns: Quantity, Description. Includes handwritten entries: 1st meeting of safety slings, 2nd observe what is taken place around, (2) electrician.

TIME OF ACTIVITY BY ITEM #

Table with columns: From, To, Date, Item #. Shows time slots for various items.

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

Repaired Rotant table cable. pick up all weight to make up bottom whole assembly. circulate clean up the whole.

Installer's Signature

Client's Signature

CLIENT

Supervisor's Signature



LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT Proposed Turkey Point Units 6 and 7
Docket Nos. 52-040 and 52-041
L-2011-219 Enclosure 2 Page 24 of 42

DATE 5-17-2011
TUE N

JOB # 11771
JOB SITE LOCATION T.P.

PERSONNEL

Table with columns: Crew Assignment, Employee Full Name, Per Diem? (X), Onsite Hours, Offsite Hours, Total Hours. Includes names like George Haga, Bosiz Culomov, VLAD TSHIMOV, and TGOR POPOV.

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, Job Preparation, Safety Meeting, etc.

MATERIALS USED TODAY

Table with columns: Quantity, Description. Includes entries for 1st Safety Meeting, 2nd Safety Meeting, VLS, WT, and mixed bags of Maxgel.

TIME OF ACTIVITY BY ITEM #

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

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

Continue reaming w/ 62 1/2 Bit from 38 bpl to 44.57 bpl
clean and organize dog house, sweep and
clean MCC's, straighten ground and organize
equipment. mixed 5 bags of maxgel. Empty trash
throughout location.

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	

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
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	

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

Project: Florida Power & Light Company
Miami-Dade County, Florida
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	

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



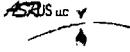
**EW-1 Pad Monitoring Well Water Quality Data
Southwest Pad Monitoring Well
(SW-EW PMW)**

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	

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	Depth (ft. bpl)		Observer's Description
4/14/2011	0	5	Limestone and Sand (fill material): yellowish gray (5Y 8/1), calcareous, silty, trace shell fragments. Note: Samples collected during pit casing installation via auger drilling.
4/14/2011	5	10	Limestone, Sand, and Muck: Limestone and Sand (fill material), 50%, yellowish gray (5Y 8/1), calcareous, silty, trace shell fragments; Muck, brownish black (5YR 2/1) to brownish gray (5YR 4/1). Note: Samples collected during pit casing installation via auger drilling. The top of the muck was encountered at approximately 7.5 feet below land surface.
4/14/2011	10	15	Limestone: 100%, yellowish gray (5Y 8/1), calcareous, trace very fine angular quartz sand. Note: Samples collected during pit casing installation via auger drilling. Limestone encountered at 12 feet below land surface.
4/14/2011	15	20	Limestone: 100%, yellowish gray (5Y 8/1), calcareous, trace very fine angular quartz sand. Note: Samples collected during pit casing installation via auger drilling.
4/14/2011	20	25	Limestone: 100%, yellowish gray (5Y 8/1), calcareous, trace very fine angular quartz, sand and shell. Note: Samples collected during pit casing installation via auger drilling.
4/14/2011	25	30	Limestone: 100%, yellowish gray (5Y 8/1), calcareous, trace very fine angular quartz, sand and shell. Note: Samples collected during pit casing installation via auger drilling.
5/12/2011	30	40	Limestone: 100%, yellowish gray (5Y 8/1), calcareous, fine grained, sand and shell.
5/12/2011	40	50	Limestone: 100%, poorly indurated yellowish gray (5Y 8/1), white (N9), and very light gray (N8) to light gray (N7), fine grained, sub-rounded quartz sand and abundant shell fragments. Soft, wet.
5/12/2011	50	60	Sandy Limestone: 100%, poorly indurated white (N9) coarse to fine shell fragments, fine quartz sand, some cemented fragments, some fine dark gray grains (N3), trace brownish gray coarse grains (5YR 4/1), sl. clayey, soft, wet.
5/12/2011	60	70	Sandy Limestone: 100%, moderately indurated, light gray (N8) to yellowish gray (5Y 8/1), with medium to coarse white (N9) shell fragments, fine quartz sand, some fine dark gray (N3) to black (N2) grains, few fossil molds, trace coral fragments.
5/12/2011	70	80	Sandy Limestone: 100%, light gray (N8) to yellowish gray (5Y 8/1), with medium to coarse white (N9) shell fragments, fine subrounded quartz sand, some fine dark gray (N3) to black (N2) grains, moderately hard.
5/12/2011	80	90	Sandy Limestone: Same as above.
5/13/2011	90	100	Sandy Limestone: 100%, white (N9) to yellowish gray (5Y 8/1), with medium to coarse white (N9) shell fragments, fine subrounded quartz sand, some fine dark gray (N3) to black (N2) grains, moderately hard to hard.
5/13/2011	100	110	Limestone: 100%, very light gray (N8) to light gray (N8), coarse to fine white (N9) shell, shell fragments, some rounded; some fine quartz sand, some to few fine dark gray (N3) to black (N2) grains, moderately indurated.
5/13/2011	110	120	Limestone: 100%, light gray (N8), coarse to fine white (N9) shell, shell fragments, some rounded; fine quartz sand, some to few fine dark gray (N3) to black (N2) grains, moderately indurated.
5/13/2011	120	130	Limestone, to 122 ft bpl, clay noted in cuttings at 122 ft bpl consisting of light olive gray (5Y 6/1), soft, sandy; 122-130 mix of white (N9), yellowish gray (5Y 8/1) and light olive gray (5Y 6/1) limestone with coarse to fine shells and shell fragments, some quartz sand, trace light olive gray (5Y 6/1) clay, (small cuttings).
5/13/2011	130	140	Limestone: 100%, light gray (N8) to yellowish gray (5Y 8/1), coarse to fine white (N9) shell, shell fragments, some rounded; fine quartz sand, some fine dark gray (N3) to black (N2) grains, moderately indurated.



MHC	Florida Power & Light Company			
	Turkey Point Exploratory Well EW-1 Lithologic Description			
Date	Depth (ft. bpl)		Observer's Description	
	From	To		
5/13/2011	140	150	Limestone to 145 ft; at 145 ft bpl, dark greenish gray (5GY 4/1) sandy, slightly clayey Silt, some calcareous grains and shell fragments, moderately hard, stiff.	
5/14/2011	150	160	Clayey Silt: as above, (note: cuttings "mashed up" with drill mud obscuring natural texture).	
5/14/2011	160	170	As above, dark greenish gray (5GY 8/1) Silt, sandy, slightly clayey, more calcareous grains and coarse to fine shell fragments than above, fine dark gray (N3) to black (N2) grains (phosphate). (note: cuttings "mashed up" with drill mud obscuring natural texture).	
5/14/2011	170	180	Clayey Silt: as above, (note: cuttings "mashed up" with drill mud obscuring natural texture).	
5/14/2011	180	190	Silt: dark greenish gray (5GY 8/1) sandy, clayey with fine calcareous grains and coarse to fine shell fragments, fine dark gray (N3) to black (N2) grains (phosphate). (note: cuttings "mashed up" with drill mud obscuring natural texture).	
5/14/2011	190	200	Silt: same as above.	
5/14/2011	200	210	Silt: same as above.	
5/14/2011	210	220	Silt: same as above.	
5/14/2011	220	230	Silt: same as above.	
5/14/2011	230	240	Sand: light olive gray (5Y 5/2) fine grained, phosphatic, trace shell fragments.	
5/14/2011	240	250	Sand: Same as above.	

ft. 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/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, 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	15-MAY-2011		
Run Number	ONE		
Depth Driller	255'		
Depth Logger	255'		
Bottom Logged Interval	255'		
Top Log Interval	SURFACE		
Open Hole Size	12.25"		
Type Fluid	MUD		
Density / Viscosity	NA/NA		
Max. Recorded Temp.	NA		
Estimated Cement Top	SURFACE		
Time Well Ready	07:00 5/15/2011		
Time Logger on Bottom	07:00 5/15/2011		
Equipment Number	MVGS-1		
Location	Ft. Myers		
Recorded By	S.Miller/C.Miller		
Witnessed By	D.Daigle (ASRus)	K.Greuel (LCC)	

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	12.25"	SURFACE	255'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	64"	0.375" WT	SURFACE	33'
Prot. String				
Production String				
Liner				LTP1.db
Invoice No.	2011059	P.O. #:	8fld/las/pdf	* FINAL PRINT *

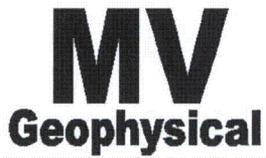
^^ Fold Here ^^

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

Comments

Proposed Turkey Point Units 6 and 7
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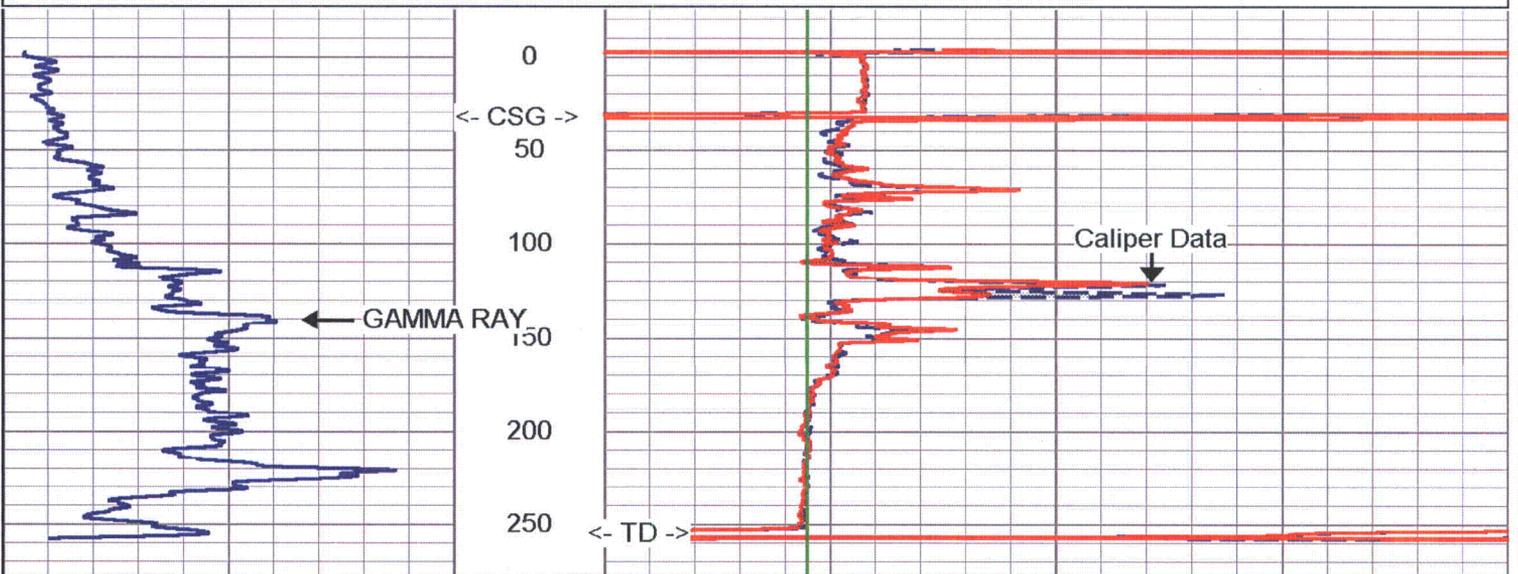
MAXIMUM Caliper Arm Extensions: 33"



MAIN PASS

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 Charted by: Depth in Feet scaled 1:1200

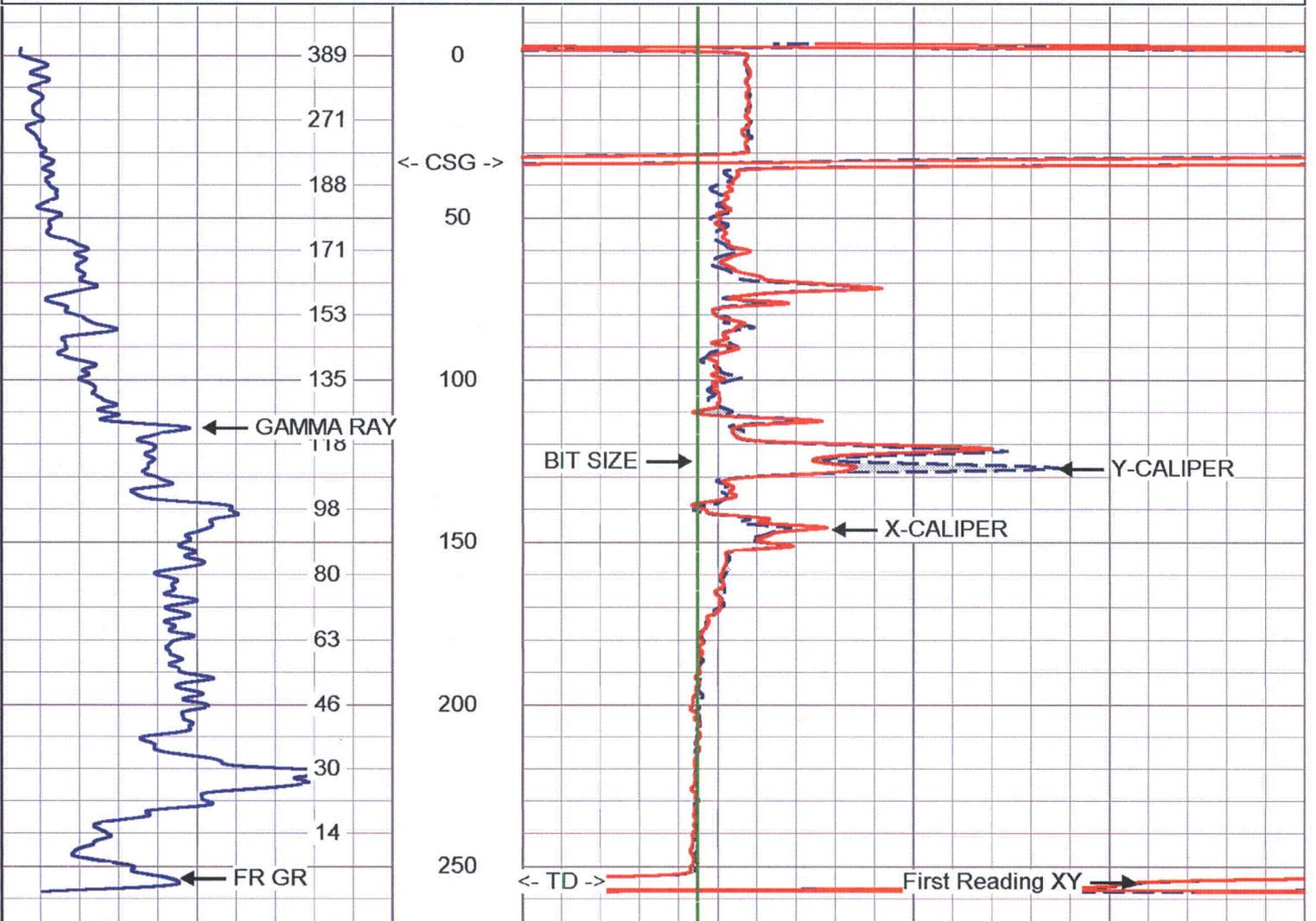
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			10	X-CALIPER (in)	20
			10	BIT SIZE (in)	20



0	GAMMA RAY (GAPI)	100	10	Y-CALIPER (in)	20
			10	X-CALIPER (in)	20
			10	BIT SIZE (in)	20

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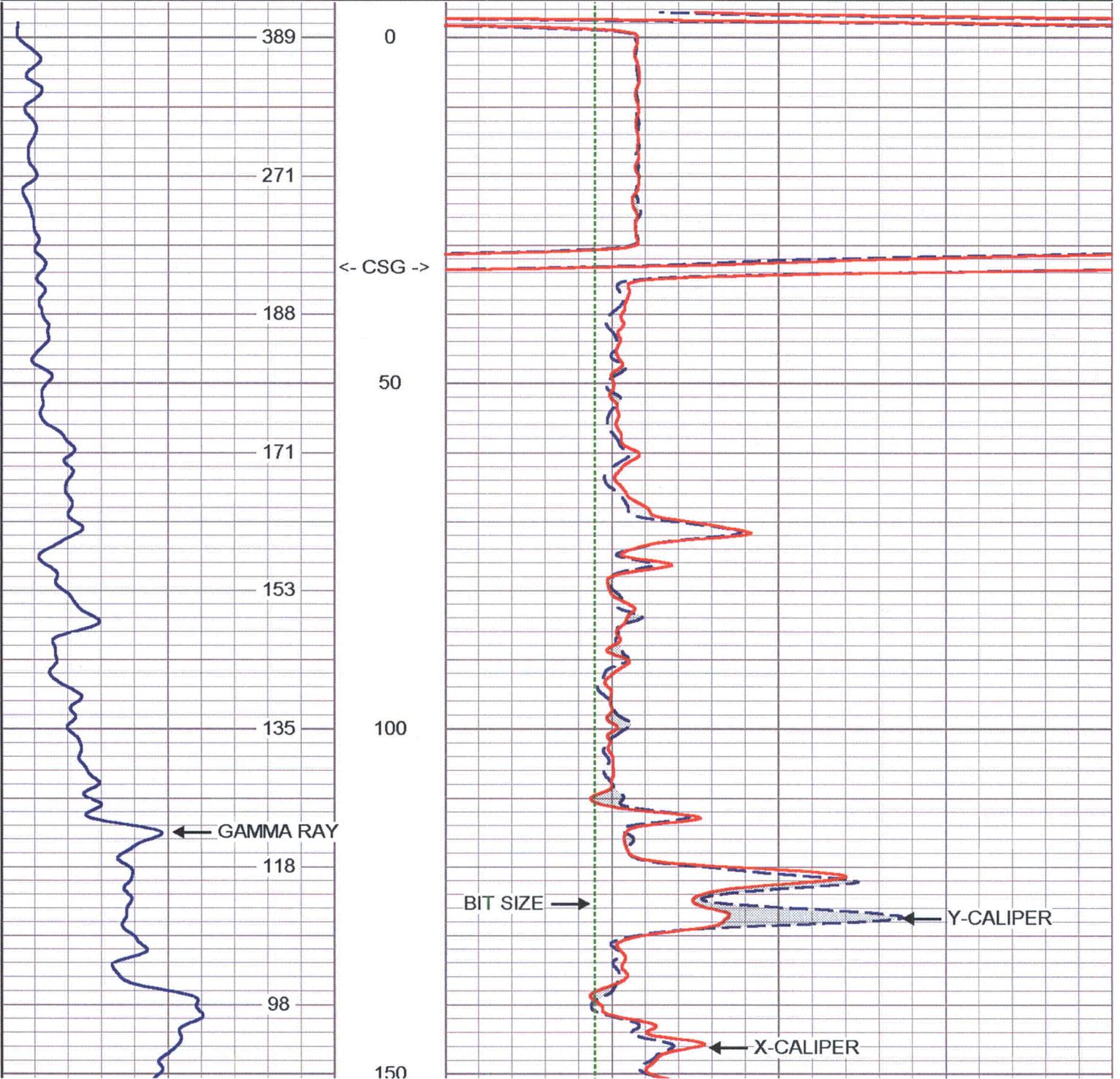
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			10	BIT SIZE (in)	20

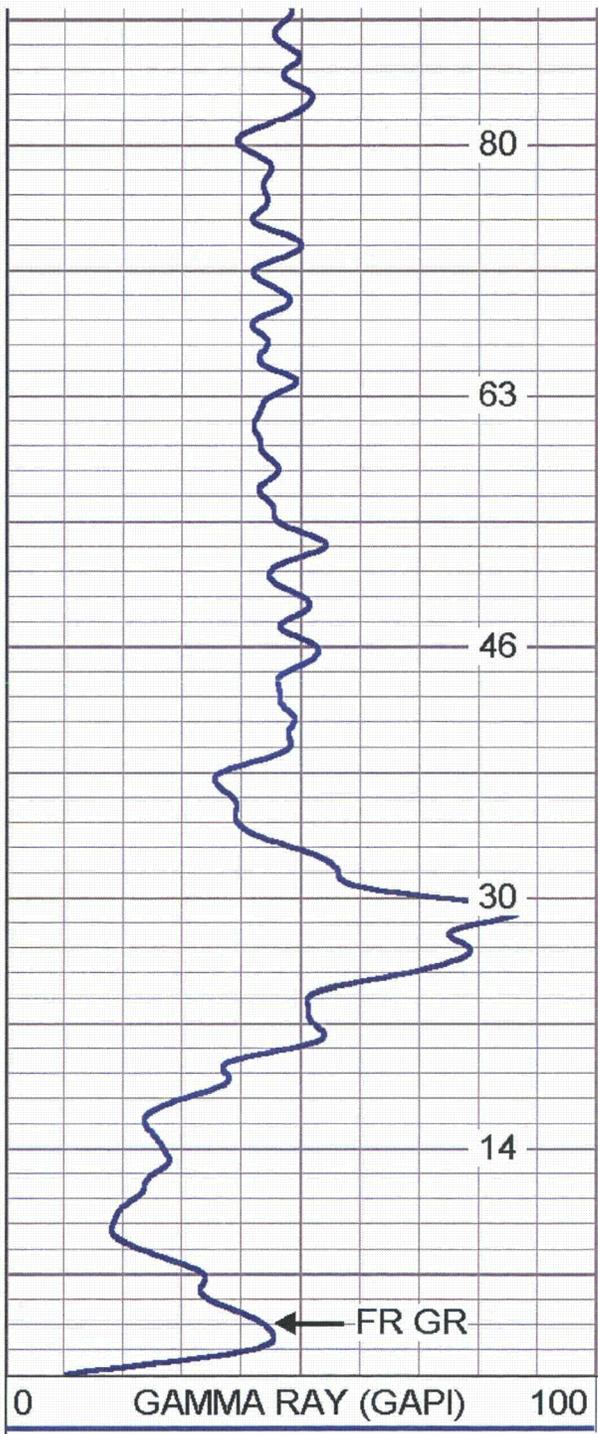


0	GAMMA RAY (GAPI)	100	10	Y-CALIPER (in)	20
			10	X-CALIPER (in)	20
			10	BIT SIZE (in)	20

Database File: ltp1.db
Dataset Pathname: MAIN
Presentation Format: XY1020-5
Dataset Creation: Sun May 15 08:05:25 2011
Charted by: Depth in Feet scaled 1:240

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			10	BIT SIZE (in)	20

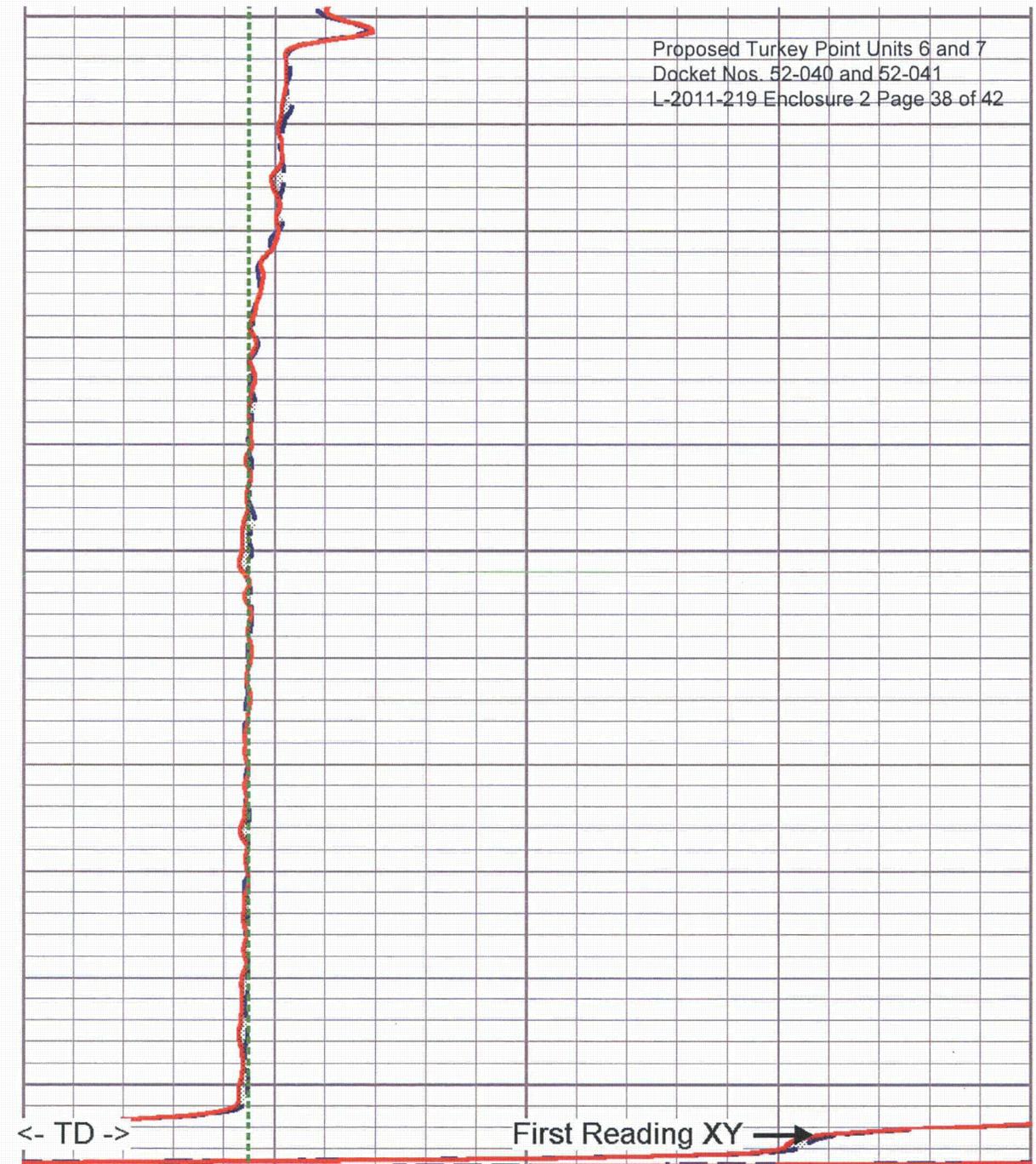




0 100

150
200
250

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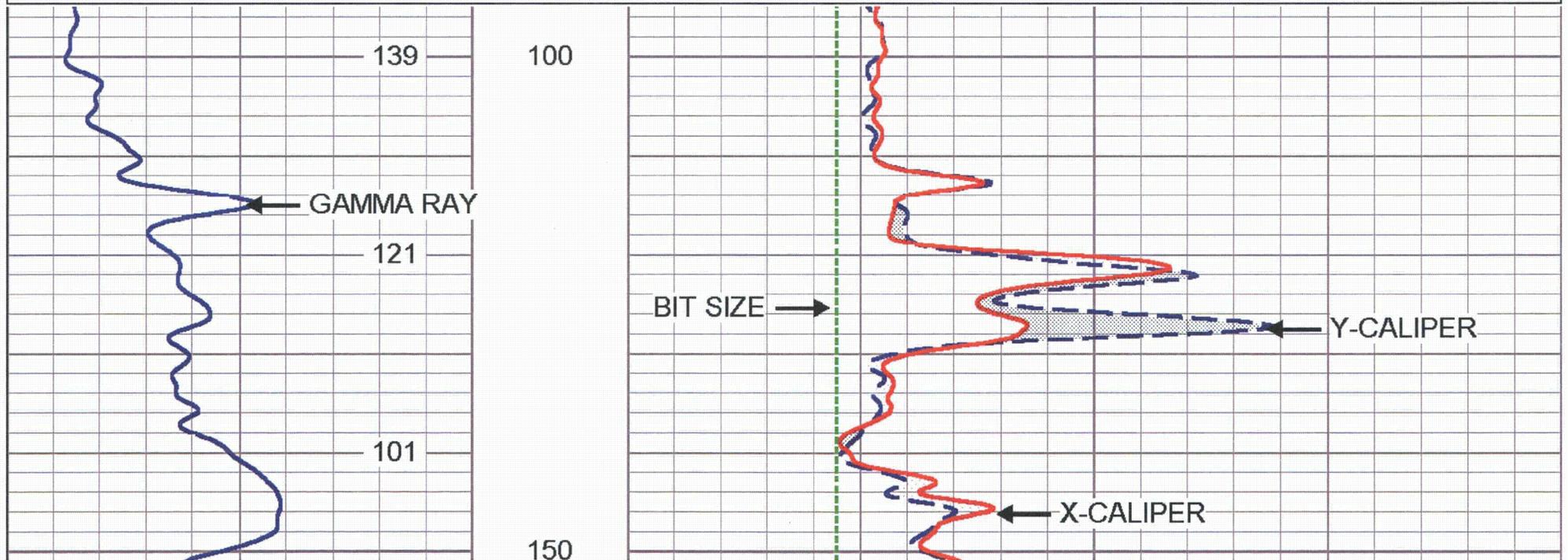
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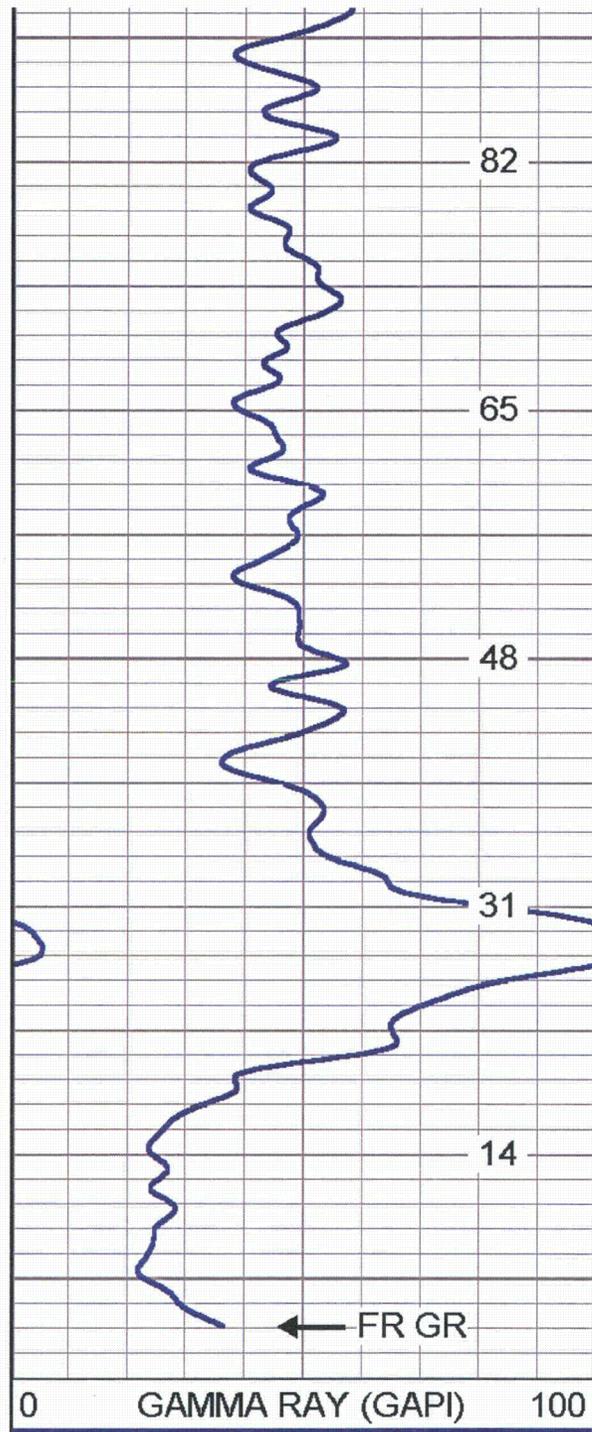
REPEAT SECTION

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 Charted by: Depth in Feet scaled 1:240

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0	GAMMA RAY (GAPI)	100	10	Y-CALIPER (in)	20
			10	X-CALIPER (in)	20
			10	BIT SIZE (in)	20



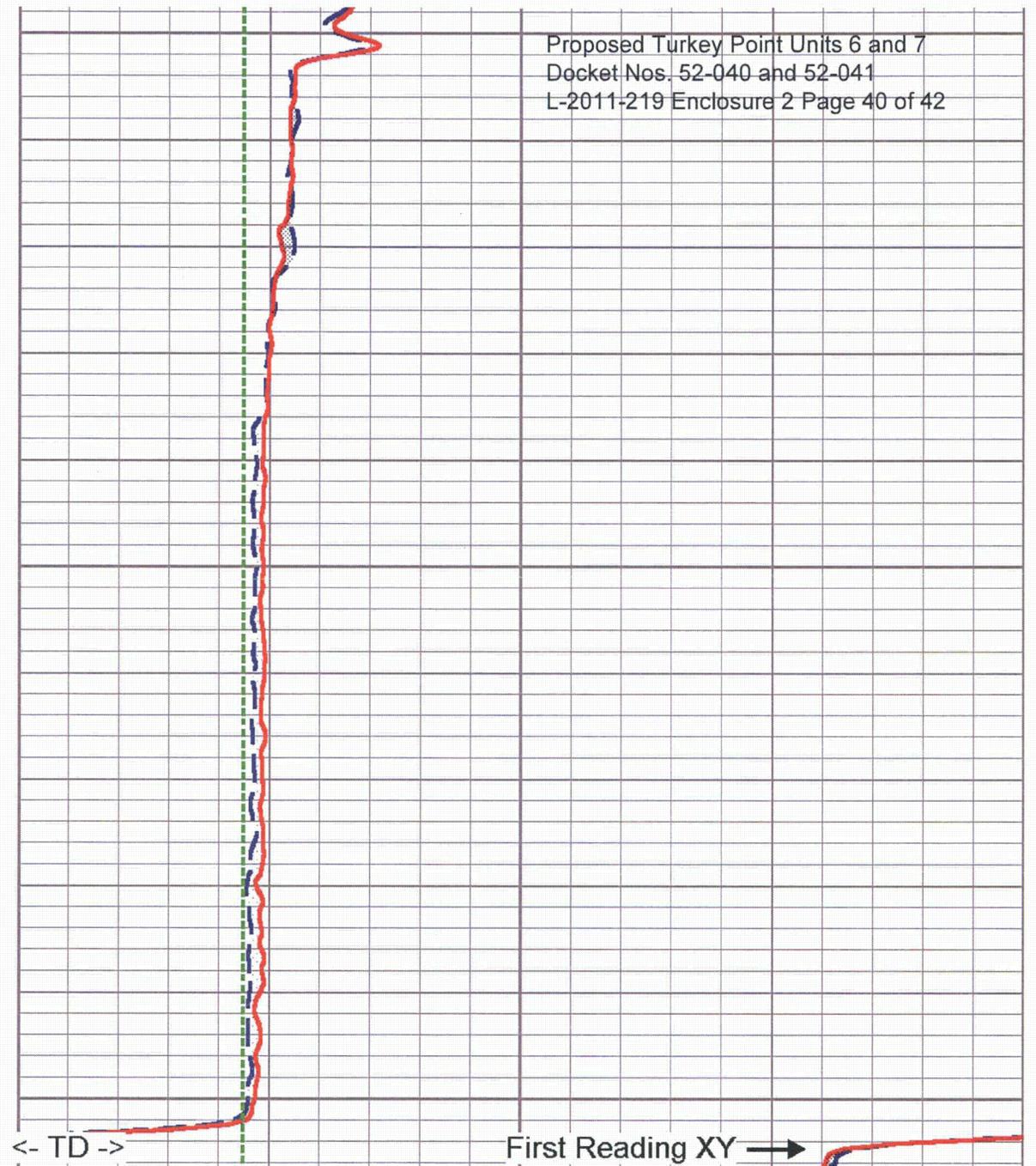


0 GAMMA RAY (GAPI) 100

150

200

250



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10	Y-CALIPER (in)	20
10	X-CALIPER (in)	20
10	BIT SIZE (in)	20

XY Caliper Calibration Report

Proposed Turkey Point Units 6 and 7
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Serial Number:	01S		
Tool Model:	XYCS		
Performed:	Sun May 15 07:40:04 2011		
Small Ring:	12.25	in	
Large Ring:	33	in	
	X Caliper	Y Caliper	
Reading with Small Ring:	733.5	717.1	cps
Reading with Large Ring:	1133.3	1074.5	cps
Gain:	0.0519009	0.0580582	
Offset:	-25.8193	-29.3835	

Gamma Ray Calibration Report

Serial Number:	01		
Tool Model:	GROH		
Performed:	Sun May 15 07:18:33 2011		
Calibrator Value:	120	GAPI	
Background Reading:	13.488	cps	
Calibrator Reading:	130.515	cps	
Sensitivity:	1.254	GAPI/cps	

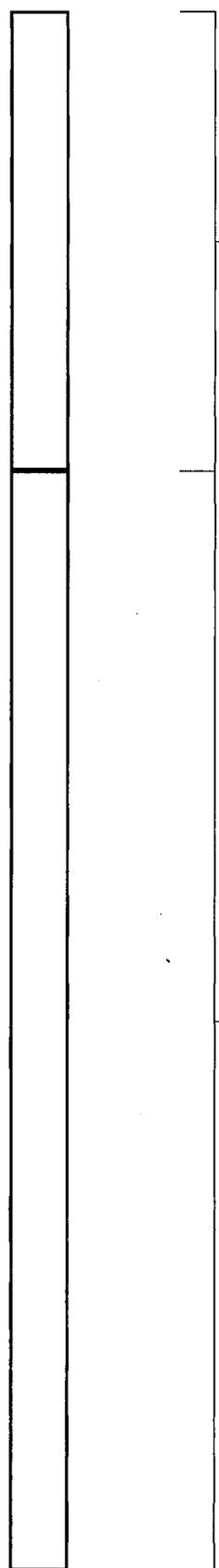
GR 5.00 ft

GR-GROH (01)
40.00 lb 3.50 in OD 2.75 ft

XYC-XYCS (01S)
110.00 lb 3.50 in OD 6.60 ft

XCAL 0.50 ft
YCAL 0.50 ft

Dataset: run1/pass4
Total Length: 9.35 ft
Total Weight: 150.00 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 #3 dated May 27, 2011

Note

Pages 37 through 44 were originally part
of a single strip chart that has been
segmented to 8.5 by 11 pages for
processing

WEEKLY CONSTRUCTION SUMMARY



McNabb Hydrogeologic Consulting, Inc.

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Phone: 561-891-0763
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May 27, 2011

MHCDEP-11-0187

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 #3**

Dear Mr. May:

This is the third weekly construction summary for the above referenced project. The reporting period for this weekly construction summary began at 7:00 AM, Thursday, May 19, 2011 and ended at 7:00 AM, Thursday, May 26, 2011. Consultant and drilling contractor daily reports were prepared for this reporting period. Copies of the consultant and drilling contractor daily construction logs are attached.

During the previous reporting period, the drilling contractor (Layne Christensen Company) completed drilling a pilot hole via the mud rotary drilling method using a 12 ¼-inch diameter drill bit to a depth of 255 feet below pad level (bpl), performed geophysical logging on the pilot hole, and began reaming the pilot hole using a 62 ½-inch diameter drill bit. The pilot hole was reamed to a depth of 61.8 feet bpl by the end of the previous reporting period.

During this reporting period, the drilling contractor continued to ream the pilot hole from a depth of 61.8 feet to 259.8 feet bpl. Upon completion of reaming the pilot hole to 259.8 feet bpl, the geophysical logging sub-contractor performed gamma-ray and caliper logging. A copy of the geophysical log is attached. The drilling contractor was preparing to install the 54-inch diameter steel casing at the end of this reporting period. Deviation surveys were performed on the pilot hole at 90 foot intervals. A deviation survey summary sheet is attached.

There were no coring, packer testing, exploratory well development, casing installation or cementing activities. Salt or other materials were not used to suppress well flow and there were no construction related issues during the reporting period.

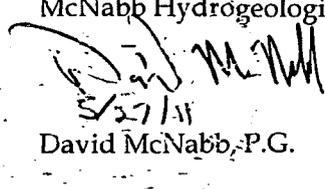
During the next reporting period, it is anticipated that the drilling contractor will install and cement the 54-inch diameter casing in place, and begin the next phase of pilot hole drilling.

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 May 26, 2011. The most recent set of pad monitoring well sample results available is for samples collected on May 19, 2011. Sampling of the pad monitor wells around EW-1 will continue until drilling and testing of EW-1 has been completed. Copies of the pad monitor wells data summary sheets are attached.

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

Sincerely,

McNabb Hydrogeologic Consulting, Inc.



David McNabb, P.G.

Attachments: Consultant Daily Construction Logs
Drilling Contractor Daily Construction Logs
Pad Monitor Well Summary Sheets
Deviation Survey Summary Sheet
Geophysical Log

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

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



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Daily Construction Log

Date: May 19, 2011
Project: FPL Turkey Point EW
Contractor: Layne Christensen Company
Starting Depth: 61.8 feet bpl
Weather Day: Mostly Sunny, 70/87
Weather Night: Clear, Warm
Activity: Reaming

FDEP UIC Permit #: 0293962-001-UC
Well No.: EW-1
Bit Diameter: 62 ½-inch
Ending Depth: 97 feet bpl
Recorded By: Eric Meyer/Sally Durall

CONSTRUCTION ACTIVITIES

- 0700 Reaming continues at 61.8 feet below pad level (bpl) with weight on bit (WOB) of approximately 15,000 pounds. Four linear shakers and one desander are in operation; mud is being conveyed using 3 of the 4 mud pumps; the penetration rate for drilling operations is being maintained to keep the drilling mud weight at 9 pounds per gallon (lbs/gal) or less; the penetration rate is approximately 0.8 feet per hour (feet/hr).
- 0830 Reaming continues at 63.7 feet bpl; approximate operational drilling data includes: WOB of 12,000 pounds, penetration rate 0.2 feet/hr, and rotary speed 8.7 revolutions per minute (rpm).
- 0853 Reaming at 63.8 feet bpl; the approximate operational drilling data includes: WOB of 9,000 pounds, penetration rate of 0.4 feet/hr, and rotary speed of 8.6 rpm.
- 0900 Casing delivery is underway; various sizes are shipped in closed tractor trailers. Walked drill site to observe delivery of casing and determine present inventory.
- 0940 Florida-Spectrum Environmental Services, Inc. (Argelio Pifferrer) arrives onsite to sample the pad monitor wells surrounding the drilling pad; analyses to be performed include: depth to water, chloride, total dissolved solids (TDS), conductivity (field), pH (field), and temperature (field).
- 1000 Reaming at 64.2 feet bpl; the approximate operational drilling data includes: WOB of 13,000 pounds, penetration rate of 0.6 feet/hr, and rotary speed of 9.1 rpm.
- 1210 Reaming at 65.7 feet bpl; the approximate operational drilling data includes: WOB of 14,000 pounds, penetration rate varying from 0.4 to 2, rotary speed is 8 rpm, torque 16% to 22% of motor capacity. Based on the pilot hole geophysical logs and observation of cuttings, soft and loose formation may be encountered; so far, no mud circulation difficulties have occurred; the driller confirmed that mud circulation and tank fluid levels remain steady.
- 1230 Florida-Spectrum Environmental Services, Inc. continues sampling of the pad monitor wells.



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- 1247 Florida-Spectrum Environmental Services, Inc. completed sampling of the pad monitor wells; copies of the chain of custody and groundwater sampling logs were provided.
- 1250 Florida-Spectrum Environmental Services, Inc. departs from the drilling site.
- 1330 Reaming at 68 feet bpl; the approximate operational drilling data includes: WOB of 18,000 pounds, penetration rate varying from 0.8 to 2.4 feet/hr, rotary speed of 8 rpm, and torque of 16% to 23% of motor capacity.
- 1431 Reaming at 69.4 feet bpl; the approximate operational drilling data includes: WOB of 16,000 pounds, penetration rate varies from 0.4 to 2, rotary speed 8 rpm, and rotary torque of 13% to 17 % of motor capacity.
- 1600 Reaming at 72.8 feet bpl; the approximate operational drilling data includes: WOB 17,000 pounds, penetration rate varies from 0.6 to 2.1 feet/hr, rotary speed 9.5 rpm, and rotary torque of 13% to 15% of motor capacity.
- 1810 Reaming at 76.5 feet bpl. The WOB is approximately 24,000 pounds, the rate of penetration is approximately 2 feet/hr, and the rotation speed is 9 rpm.
- 1915 Reaming at 77.5 feet bpl.
- 2120 Reaming at 81 feet bpl.
- 2240 Reaming at 83.1 feet bpl. The WOB is approximately 28,000 pounds, the rate of penetration is approximately 2 feet/hr, and the rotation speed is 9.5 rpm.
- 0045 Reaming at 87 feet bpl.
- 0235 Reaming at 91.4 feet bpl.
- 0340 Reaming at 92 feet bpl.
- 0450 Reaming at 93.7 feet bpl. The WOB is approximately 19,000 pounds, the rate of penetration is approximately 1 feet/hr, and the rotation speed is 10 rpm.
- 0535 Reaming at 95 feet bpl.
- 0700 The reaming depth is currently at 97 feet bpl.



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Daily Construction Log

Date: May 20, 2011
Project: FPL Turkey Point EW
Contractor: Layne Christensen Company
Starting Depth: 97 feet bpl
Weather Day: Mostly Sunny
Weather Night: Clear, Warm
Activity: Reaming

FDEP UIC Permit #: 0293962-001-UC
Well No.: EW-1
Bit Diameter: 62 ½-inch
Ending Depth: 141 feet bpl
Recorded By: Mark McNeal/Sally Durall

CONSTRUCTION ACTIVITIES

- 0700 Reaming depth is currently at 97 feet below pad level (bpl).
- 0730 Reaming continues at 98.5 feet bpl with weight on bit (WOB) of approximately 18,000 pounds (lbs). Currently the drilling Rate of Penetration (ROP) is 0.6 feet per hour (feet/hr) and the rotary speed is 9.5 revolutions per minute (rpm).
- 0750 Reaming continues at a depth of 99 feet bpl.
- 0900 Mark McNeal visits the welding area and speaks with the welder. Kevin Gruel brings out a copy of the mill certificate for the 54-inch diameter pipe that arrived recently with heat number 11PO2636. They will use a short section of this casing on the first pipe in the hole and wanted us to observe the full piece prior to any cutting of the pipe is performed. Additional casing of various sizes is being delivered to the site and stored in the laydown area to the south.
- 0910 Reaming of the pilot hole continues at a depth of 102.1 feet bpl. WOB is 10,000 pounds, the ROP is 2 to 3 feet/hr, and the rotary speed is currently 11.5 rpm.
- 0950 Reaming of the pilot hole continues at a depth of 103.7 feet bpl.
- 1010 Reaming of the pilot hole continues at a depth of 104.5 feet bpl. Updated David McNabb on the pipe onsite and David approved cutting the casing for the lowermost piece of the 54-inch diameter casing installation.
- 1110 Collected water level readings at pad monitor wells (SW = 17.55'; NW = 17.48'; NE = 10.43'; and SE = 10.15' below top of casings). Directed drilling contractor to redevelop the two western pad monitor wells after discussing with David McNabb. Recent water level measurements indicate the water elevation at the SW and NW pad monitor wells were lower than anticipated. The decision was made to air-develop the SW and NW pad monitor wells to remove solids that may be impacting the water level in these two pad monitor wells.
- 1125 Reaming of the pilot hole continues at a depth of 106.4 feet bpl. WOB is 15,000 lbs, the ROP is 2 to 3 feet/hr, and the rotary speed is currently 8.5 rpm.
- 1200 The drilling contractor has measured and marked a piece of 54-inch diameter casing 6.23 feet in length. Visually inspected to be from the casing with heat number 11PO2636.
- 1220 Reaming completed to a depth of 108 feet bpl. ROP is 3 feet/hr at 11.6 rpm.



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- 1335 Reaming completed to a depth of 110.4 feet bpl. ROP is 3 to 4 feet/hr at 11.6 rpm. WOB is 17,000 pounds. So far during this shift they have not lost much drilling mud, mixing only the range of that needed to replace the material removed from the hole. Mud weight is averaging about 9 lbs/gallon coming into the mud system and 9.1 lbs/gallon leaving the mud system according to the drilling contractor.
- 1420 Reaming completed to a depth of 111.8 feet bpl. ROP is 0.4 feet/hr at 11.9 rpm.
- 1515 Hole reamed to 112.7 ft bpl. ROP is 3 feet/hr at 11.8 rpm. WOB is 5,000 lbs.
- 1545 Hole reamed to 113.75 feet bpl. Hole is still not taking any noticeable extra mud.
- 1630 Hole reamed to 115 feet bpl. WOB is steady at 13,000 to 14,000 lbs.
- 1730 Reaming completed to 117.3 feet bpl. WOB is currently running 15,000 lbs.
- 1745 Sally Durall arrives on site to take over night shift.
- 1800 Mark McNeal leaves the site.
- 1850 Reaming of the pilot hole continues at 120 feet bpl.
- 2025 Reaming of the pilot hole continues at 122.7 feet bpl.
- 2055 The kelly is down at 123.8 feet bpl. The drilling contractor is currently circulating the borehole clean and preparing to run a deviation survey.
- 2140 The drilling contractor disconnects the drill pipe, zeros the deviation survey tool to pad level and trips the tool to 90 feet bpl inside the drill pipe.
- 2205 The deviation survey is completed and the drilling contractor trips the survey tool out of the drill pipe.
- 2235 The drilling contractor makes a drill pipe connection and resumes reaming the pilot hole from a depth of 123.8 feet bpl.
- 2325 Reaming the pilot hole at 124.2 feet bpl. The WOB is 6,000 lbs, ROP is approximately 2 feet/hr, and the rotary speed is 9 RPM.
- 0040 Reaming the pilot hole at 127.3 feet bpl. The WOB is 3,000 lbs, ROP is approximately 2 feet/hr, and the rotary speed is 9 RPM.
- 0130 Reaming the pilot hole at 129.5 feet bpl.
- 0240 Reaming the pilot hole at 132 feet bpl.
- 0410 Reaming the pilot hole at 135.2 feet bpl.
- 0525 Reaming the pilot hole at 138 feet bpl. The WOB is 6,000 lbs, ROP is approximately 2 feet/hr, and the rotary speed is 9 RPM.
- 0635 Reaming the pilot hole at 140.4 feet bpl. The WOB is 6,000 lbs.
- 0700 Drilling contractor has a shift change. Reaming has been completed to a depth of 141 feet bpl.



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Daily Construction Log

Date: May 21, 2011
Project: FPL Turkey Point EW
Contractor: Layne Christensen Company
Starting Depth: 141 feet bpl
Weather Day: Mostly Sunny
Weather Night: Clear, Warm
Activity: Reaming

FDEP UIC Permit #: 0293962-001-UC
Well No.: EW-1
Bit Diameter: 62 ½-inch
Ending Depth: 175 feet bpl
Recorded By: Mark McNeal/Eric Meyer

CONSTRUCTION ACTIVITIES

- 0700 Reaming depth is currently at 141 feet below pad level (bpl).
- 0720 Reaming continues at 142 feet bpl with weight on bit (WOB) of approximately 2,000 pounds (lbs). Currently the drilling Rate of Penetration (ROP) is 2 feet per hour (feet/hr) and the rotary speed is 9.3 revolutions per minute (rpm).
- 0820 Reaming continues at a depth of 144.2 feet bpl.
- 0850 Reaming continues at a depth of 145.2 feet bpl. WOB is 5,000 lbs. ROP is 2 feet/hr.
- 0925 Reaming continues at a depth of 146.5 feet bpl. WOB is 1,000 lbs. ROP is 2 feet/hr.
- 1040 Reaming continues at a depth of 149.2 feet bpl. WOB is currently 0 lbs. ROP is 2 feet/hr.
- 1145 Reaming continues at a depth of 151.1 feet bpl. WOB is 2,000 lbs. ROP is 1 foot/hr.
- 1215 Reaming continues at a depth of 151.5 feet bpl.
- 1250 Reaming continues at a depth of 152 feet bpl. Mud weight has increased since the drilling contractor is in clay so they are slowing down to condition the mud.
- 1350 Reaming continues at a depth of 152.8 feet bpl. WOB is 4,000 lbs. ROP is 1 foot/hr.
- 1450 Reaming continues at a depth of 153.6 feet bpl. WOB is 0 lbs. ROP is 1 foot/hr.
- 1515 Begin developing SW pad monitor well with air. Water pumped appears turbid.
- 1600 Reaming continues at a depth of 154.6 feet bpl. WOB is 3,000 lbs. ROP is 1 foot/hr.
- 1635 Currently reaming at a depth of 155 feet bpl. WOB is 4,000 lbs. ROP is 1 foot/hr.
- 1800 Currently reaming at a depth of 157.3 feet bpl. WOB is 2,000 lbs. ROP is 2 feet/hr.
- 1830 Currently reaming at a depth of 158.5 feet bpl. WOB is 3,000 lbs. ROP is approximately 2 feet/hr.
- 1900 Drilling mud weight was reported at 9.5 pounds per gallon (lbs/gal); monitoring will continue to maintain the mud weight at 9.6 lbs/gal or less. Continued periodic air-lifting of the southwest pad monitor well.



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- 1940 Currently reaming at a depth of 160 feet bpl. WOB is 6,000 lb. ROP is approximately 2 feet/hr.
- 2030 Currently reaming at a depth of 161.6 feet bpl. WOB is 8,000 lb. ROP is approximately 2 feet/hr.
- 2100 Currently reaming at a depth of 162.6 feet bpl. WOB is 8,000 lb. ROP is approximately 2 feet/hr.
- 2200 Currently reaming at a depth of 165.1 feet bpl. WOB is 8,000 lb. ROP is approximately 2 feet/hr.
- 2230 Currently reaming at a depth of 166.2 feet bpl. WOB is 8,000 lb. ROP is approximately 2 feet/hr.
- 2300 Currently reaming at a depth of 167.4 feet bpl. WOB is 9,000 lb. ROP is approximately 2 feet/hr.
- 0000 Currently reaming at a depth of 169 feet bpl. WOB is 10,000 lb. Air-lifting continues on the southwest pad monitor well.
- 0140 Currently reaming at a depth of 171.3 feet bpl. WOB is 7,000 lb. ROP is approximately 2 feet/hr.
- 0230 Currently reaming at a depth of 172.7 feet bpl. WOB is 6,000 lb. ROP is approximately 2 feet/hr.
- 0300 Currently reaming at a depth of 173.3 feet bpl. WOB is 7,000 lb. ROP is less than 1 foot/hr.
- 0400 Currently reaming at a depth of 173.6 feet bpl. WOB is 9,000 lb. ROP is less than 1 foot/hr. Rotary speed was reduced from about 11 rpm to 6 rpm.
- 0430 Currently reaming at a depth of 173.8 feet bpl. WOB is 9,000 lb. ROP is less than 1 foot/hr. Rotary speed 6 rpm.
- 0500 Currently reaming at a depth of 174 feet bpl. WOB is 8,000 lb. ROP is less than 1 foot/hr. Rotary speed 6 rpm.
- 0530 Currently reaming at a depth of 174.2 feet bpl. WOB is 8,000 lb. ROP is less than 1 foot/hr.
- 0600 Currently reaming at a depth of 174.5 feet bpl. WOB is 8,000 lb. ROP is less than 1 foot/hr.
- 0630 Currently reaming at a depth of 174.9 feet bpl. WOB is 7,000 lb. ROP is less than 1 foot/hr.
- 0700 Reaming depth is 175 feet bpl.



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Daily Construction Log

Date: May 22, 2011
Project: FPL Turkey Point EW
Contractor: Layne Christensen Company
Starting Depth: 175 feet bpl
Weather Day: Mostly Sunny
Weather Night: Clear, Warm
Activity: Reaming

FDEP UIC Permit #: 0293962-001-UC
Well No.: EW-1
Bit Diameter: 62 ½-inch
Ending Depth: 198 feet bpl
Recorded By: Mark McNeal/Eric Meyer

CONSTRUCTION ACTIVITIES

- 0700 Reaming depth is currently at 175 feet below pad level (bpl). Mud weight remains at about 9.5 pounds per gallon (lbs/gal) and the drilling contractor will continue to clean the mud with the goal of decreasing the weight closer to 9 lbs/gal.
- 0720 Reaming continues at 175.6 feet bpl with weight on bit (WOB) of approximately 2,000 pounds (lbs). Currently the drilling Rate of Penetration (ROP) is less than 1 foot per hour (foot/hr) and a rotary speed of 11 revolutions per minute (rpm).
- 0820 Reaming continues at a depth of 176.4 feet bpl.
- 0830 Start air development of the NW pad monitor well (PMW). The water pumped from the pad monitor well appears visibly turbid.
- 0845 Depth to water level (DTWL) at the SW PMW is 10.90 ft below top of casing (TOC). Development appears to be reducing the turbidity of the well pumped from the pad monitor well. Spoke to the drilling contractor about the next deviation survey. The plan is to drill to next kelly down (214 feet) and then take the survey at a depth of 180 feet bpl.
- 0910 Reaming continues at a depth of 177.1 feet bpl. ROP is approximately 1 foot/hr.
- 1050 Reaming continues at a depth of 178.4 feet bpl. ROP is approximately 1 foot/hr. Development is ongoing at the NW PMW.
- 1150 Reaming continues at a depth of 179.6 feet bpl. ROP is approximately 1 foot/hr. WOB is 2,000 lbs.
- 1200 Development continues at NW PMW. Water from the pad monitor well appears less turbid but still producing some sand. DTWL is 10.48 feet below TOC. DTWL at SW PMW remains the same at 10.90 feet below TOC. Reaming continues at a depth of 180.3 feet bpl.
- 1240 Reaming continues at 180.8 feet bpl. WOB is 15,000 lbs and ROP approximately 1 foot/hr.
- 1350 Reaming continues at a depth of 182.5 feet bpl. ROP is approximately 2 feet/hr. WOB is 9,000 lbs.
- 1425 Reaming continues at a depth of 183.3 feet bpl. ROP is approximately 1 foot/hr. WOB is 9,000 lbs.



- 1525 Reaming continues at a depth of 183.8 feet bpl. ROP is approximately 2 feet/hr. WOB is 2,000 lbs.
- 1640 Reaming continues at a depth of 186.1 feet bpl. ROP is approximately 2 feet/hr. WOB is 4,000 lbs. The drilling contractor is continuing to develop NW PMW.
- 1715 Reaming continues at a depth of 187.2 feet bpl. ROP is approximately 2 feet/hr. WOB is 0 lbs.
- 1800 Reaming continues at a depth of 188.5 feet bpl. ROP is approximately 2 feet/hr. WOB is 0 lbs.
- 1900 Reaming continues at a depth of 189.8 feet bpl. ROP is approximately 2 feet/hr. WOB is 7,000 lbs. Rotary speed is 12 rpm. Drilling mud funnel viscosity is 57 seconds; mud weight is 9.6 lbs/gal. All shakers (4) and desanders (2) are in operation; driller will continue to condition drilling mud to lower the weight. Mud tank level is about 4.5 feet above bottom.
- 1930 Reaming continues at a depth of 190.7 feet bpl. ROP is approximately 2 feet/hr. WOB is 10,000 lbs.
- 2000 Reaming continues at a depth of 191.1 feet bpl. ROP is approximately 2 feet/hr. WOB is 11,000 lbs.
- 2100 Reaming continues at a depth of 192 feet bpl. WOB is 0 lbs. Bit is 2 feet off the bottom; circulating mud.
- 2200 Reaming continues at a depth of 193 feet bpl. ROP is less than 1 foot/hr. WOB is 1,000 lbs.
- 2300 Reaming continues at a depth of 193.7 feet bpl. ROP is less than 1 foot/hr. WOB is 0 lbs.
- 0000 Reaming continues at a depth of 194.4 feet bpl. ROP is less than 1 foot/hr. WOB is 0 lbs.
- 0100 Reaming continues at a depth of 195.3 feet bpl. ROP is less than 1 foot/hr. WOB is 0 lbs.
- 0200 Reaming continues at a depth of 196 feet bpl. ROP is less than 1 foot/hr. WOB is 0 lbs.
- 0225 Rotary drilling resumes.
- 0230 Reaming continues at a depth of 196.3 feet bpl. ROP is less than 1 foot/hr. WOB is 5,000 lbs.
- 0300 Reaming continues at a depth of 196.6 feet bpl. ROP is less than 1 foot/hr. WOB is 0 lbs.
- 0400 Reaming continues at a depth of 197.4 feet bpl. ROP is less than 1 foot/hr. WOB is 0 lbs.
- 0420 Removing elevator bails and preparing to add drill pipe.
- 0520 Adding 45 feet of drill pipe; starting pumps and redrilling about 30 feet of reamed hole until back on bottom at 197 feet bpl.
- 0530 Reaming continues at a depth of 197.6 feet bpl. ROP is less than 1 foot/hr. WOB is 7,000 lbs. Rotary speed is 11 rpm.
- 0610 Reaming of the pilot hole continues at a depth of 198 feet bpl. The ROP is less than 1 foot/hr.
- 0615 The drilling contractor has completed air development of pad monitor wells PMW-SW and PMW-NW. The water level for PMW-SW is currently 10.96 feet



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below the top of casing (TOC) and the water level for PMW-NW is currently 10.62 feet below TOC.



Daily Construction Log

Date: May 23, 2011
Project: FPL Turkey Point EW
Contractor: Layne Christensen Company
Starting Depth: 198 feet bpl
Weather Day: Cloudy, windy
Weather Night: Cloudy, warm
Activity: Reaming

FDEP UIC Permit #: 0293962-001-UC
Well No.: EW-1
Bit Diameter: 62 ½-inch
Ending Depth: 214.4 feet bpl
Recorded By: Sally Durall/Deborah Daigle

CONSTRUCTION ACTIVITIES

- 0700 The reaming depth is currently at 198 feet below pad level (bpl).
- 0740 Reaming the pilot hole at a depth of 199.1 feet bpl with weight on bit (WOB) of approximately 2,000 pounds (lbs). Currently the drilling Rate of Penetration (ROP) is less than 1 foot per hour (foot/hr) and a rotary speed is 9 revolutions per minute (rpm).
- 0900 Reaming the pilot hole at a depth of 200.2 feet bpl.
- 1030 Reaming the pilot hole at a depth of 201.2 feet bpl.
- 1130 Four 44-inch diameter casing joints arrive on site.
- 1135 Reaming the pilot hole at a depth of 202.1 feet bpl. The ROP is less than 1 foot/hr, the rotary speed is 10 rpm, and the weight on bit (WOB) is 0 pounds (lbs).
- 1230 Three 44-inch diameter casing joints arrive on site.
- 1300 Reaming the pilot hole at a depth of 203.2 feet bpl. The drilling contractor plans to bring in tankers to transfer the mud to the spoils area which will allow the drilling contractor to reduce the drilling mud weight by mixing new mud. The mud weight is currently 9.6 lbs/gallon.
- 1410 Four 34-inch diameter casing joints arrive on site.
- 1500 The drilling contractor begins to transfer mud to the spoils area.
- 1530 Reaming the pilot hole at a depth of 205 feet bpl. The ROP is less than 1 foot/hr, the rotary speed is 10 rpm, and the weight on bit (WOB) is 2,000 lbs.
- 1645 Reaming the pilot hole at a depth of 206 feet bpl. The ROP is less than 1 foot/hr, the rotary speed is 10 rpm, and the weight on bit (WOB) is 6,000 lbs. The drilling contractor continues to haul mud.
- 1735 Reaming the pilot hole at a depth of 206.5 feet bpl. The drilling contractor continues to haul mud to the spoils area.
- 1845 Reaming the pilot hole at 207 feet bpl.
- 2200 Reaming the pilot hole at a depth of 209 feet bpl. ROP is approximately 0.6 feet per hour.
- 0030 Reaming the pilot hole at a depth of 210.9 feet bpl.
- 0230 Reaming the pilot hole at a depth of 212.22 feet bpl.



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- 0430 Reaming the pilot hole at a depth of 213.6 feet bpl. The ROP is approximately 0.7 feet per hour.
- 0530 Reaming the pilot hole at a depth of 214.4 feet bpl. The kelly is down. The drilling contractor will circulate and thin the mud, and clean out the hole prior to running the deviation survey.
- 0615 The drilling contractor continues to circulate the borehole clean.



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Daily Construction Log

Date: May 24, 2011
Project: FPL Turkey Point EW
Contractor: Layne Christensen Company
Starting Depth: 214.4 feet bpl
Weather Day: Cloudy, windy
Weather Night: Partly cloudy, warm
Activity: Reaming

FDEP UIC Permit #: 0293962-001-UC
Well No.: EW-1
Bit Diameter: 62 ½-inch
Ending Depth: 254 feet bpl
Recorded By: Sally Durall/Deborah Daigle

CONSTRUCTION ACTIVITIES

- 0700 The reaming depth is currently at 214.4 feet below pad level (bpl), and the drilling contractor is currently circulating the borehole clean in preparation of performing a deviation survey and a drill pipe connection.
- 0705 The drilling contractor zeros the deviation survey tool to the rig floor and trips the survey tool inside the drill pipe to 185 feet bpl. The survey tool was set for 8 minutes.
- 0720 The drilling contractor trips the survey tool out of the drill pipe. The survey result is 0.4 degrees.
- 0730 The drilling contractor makes a drill pipe connection and resumes reaming the pilot hole using the 62 ½-inch diameter bit from a depth of 214 feet bpl.
- 0900 Reaming the pilot hole at 215 feet bpl.
- 1200 Reaming the pilot hole at 217 feet bpl.
- 1310 Reaming the pilot hole at 220.8 feet bpl. The weight on bit (WOB) is 10,000 pounds (lbs), the rotary speed is approximately 13 revolutions per minute (rpm), and rate of penetration (ROP) is between 2 to 3 feet per hour (feet/hr). The mud weight is currently 9.3 lbs per gallon.
- 1430 Reaming the pilot hole at 224.4 feet bpl. The WOB is 11,000 lbs, and the rotary speed is 10 rpm.
- 1600 Reaming the pilot hole at 228.3 feet bpl.
- 1720 Reaming the pilot hole at 232 feet bpl.
- 1825 Reaming the pilot hole at 234.7 feet bpl. Drilling ROP is approximately 3 feet/hour.
- 2010 Reaming the pilot hole at 238.2 feet bpl.
- 2200 Reaming the pilot hole at 241.9 feet bpl.
- 0000 Reaming the pilot hole at 244.4 feet bpl.
- 0130 Reaming the pilot hole at 246.7 feet bpl.
- 0330 Reaming the pilot hole at 249.8 feet bpl. Drilling ROP is approximately 1.7 feet/hour.
- 0500 Reaming the pilot hole at 251.9 feet bpl.
- 0540 Reaming the pilot hole at 252.9 feet bpl.



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0620 Reaming the pilot hole at 254 feet bpl.



Daily Construction Log

Date: May 25, 2011
Project: FPL Turkey Point EW
Contractor: Layne Christensen Company
Starting Depth: 254 feet bpl
Weather Day: Partly cloudy, hot
Weather Night: Clear, warm
Activity: Reaming

FDEP UIC Permit #: 0293962-001-UC
Well No.: EW-1
Bit Diameter: 62 ½-inch
Ending Depth: 259.8 feet bpl
Recorded By: Sally Durall/Deborah Daigle

CONSTRUCTION ACTIVITIES

- 0700 The reaming depth is currently at 254 feet below pad level (bpl). The drilling contractor has stopped drilling and is currently circulating the borehole.
- 0750 Resume reaming the pilot hole from 254 feet bpl.
- 0845 Reaming the pilot hole at 256 feet bpl.
- 0950 Reaming the pilot hole at 251.7 feet bpl.
- 1055 Reaming the pilot hole at 257.4 feet bpl.
- 1150 Reaming the pilot hole at 258 feet bpl.
- 1240 The drilling contractor has reamed the pilot hole to a depth of 258.4 which is near the total depth, and currently has stopped drilling to perform rig maintenance.
- 1430 The drilling contractor has reamed the pilot hole to a total depth of 260 feet bpl and currently circulating the borehole clean.
- 1615 The drilling contractor continues to circulate the bottom of the borehole clean. The cementer truck has arrived on site.
- 1715 The drilling contractor begins to perform wiper trips on the borehole.
- 1900 The drilling contractor will continue to condition the borehole in preparation for the casing installation.
- 2200 The drilling contractor continues to circulate mud and condition the borehole.
- 2330 The drilling contractor begins tripping drill pipe out of hole.
- 0300 The drilling contractor removes the four large counterweights from drill collar.
- 0500 The drilling contractor has tripped out of the hole. The hole depth is 259.8 feet bpl. The drilling contractor begins moving 54-inch casing to rig site while waiting for geophysical logging contractor to arrive.
- 0522 The geophysical logging sub-contractor (MV Geophysical) has arrived and is setting up for gamma and caliper logging.
- 0545 Begin to trip the caliper and gamma ray tool in the borehole.
- 0550 The logging tool tags the total depth of the borehole at 259 feet bpl.
- 0615 Geophysical logging is complete.



LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

Proposed Turkey Docket No. [REDACTED] FPL L-2011-219 Enclosure 3 Page 20 of 44

DATE 5-20-11 FRIDAYS

JOB # 11771

JOB SITE LOCATION TP

PERSONNEL EMPLOYED TODAY

Table with columns: Crew Assignment, Employee - Full Name, Per Diem? (X), Onsite Hours, Offsite Hours, Total Hours. Rows include Danny Keeley, James Payne, Isaac Vaca, BOB FEETHAM.

EQUIPMENT DEPLOYED TODAY

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

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 Job, Onsite Mob/Demob, Job Preparation, Safety Meeting, Training, etc.

MATERIALS USED TODAY

Table with columns: Quantity, Description. Includes entries for SAFETY MEETING, #12 SITE BOUNDARIES, 1 WELDER.

TIME OF ACTIVITY BY ITEM #

Table with columns: From, To, Circle One (AM/PM), Item #. Shows time intervals for various items.

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

Table with multiple rows for handwritten notes: REAM FROM 96 BPL - 119 BPL, HILL WELDER PREPARED CASING, UNLOAD CASING, CLEAN AND ORGANIZE YARD.



LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

Proposed Turkey Point Units 6 and 7
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DATE 5-20-2011
FRI. NIGHT

JOB # 11771
JOB SITE LOCATION T.P

JOB SITE NAME F W - 1

PERSONNEL EMPLOYED TODAY

Table with columns: Crew Assignment, Employee - Full Name, Per Diem? (X), Onsite Hours, Offsite Hours, Total Hours. Includes names BOSIT GULOMOV, VLAD ISHIMOV, IGOB POPOV, ANDREY POPOV.

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, Safety Meeting, Training, etc.

MATERIALS USED TODAY

Table with columns: Quantity, Description. Includes entries for SAFETY MTG, TOOL INSPECTION, TOOL MAINTENANCE, and VIS w.T.

TIME OF ACTIVITY BY ITEM #

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

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

REAM w/ 62 1/2 BIT: FROM - 119' - T / - 124'
CIRCULATE CLEAN HOLE; RUN SURVEY @ .5
MAKE CONNECTION; GO BACK DRILL F / - 124' - T / - 140'
MIXE GEL 32 BAGS;

Installer's Signature

Signature and Date 5-20-11

Date

Client's Signature

CLIENT

Date

Supervisor's Signature

Date



LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

Proposed Turkey Point Units 6 and 7
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JOBSITE NAME EWY

DATE 5-23-2011
MON NIGHTS

JOB # 11771
JOBSITE LOCATION Turkey Point

PERSONNEL EMPLOYED TODAY

Table with columns: Crew Assignment, Employee - Full Name, Per Diem? (X), Onsite Hours, Offsite Hours, Total Hours. Rows include George Haga, Bosit Gulomov, Vlad ISHIMOU, Igor Popov, and Andrey Popov.

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 activities from 1 to 45, including Short Duration Job, Onsite Mob/Demob, Safety Meeting, Training, Site Clean up, etc.

MATERIALS USED TODAY

Table with columns: Quantity, Description. Entries include 1st Safety Meeting: Drug and Alcohol Abuse and 2nd Safety Meeting Slippery gel on pit.

TIME OF ACTIVITY BY ITEM #

Table with columns: From, To, Crde One, Item #. Shows time slots for AM and PM.

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

Continue to Ream with 6 1/2 Bit from 206 BPL - T / 204 BPL
Condition mudd in hole, Kelly down @ 214 BPL pickup
90 FT ream hole. Circulate hole. walk location
Pick up trash clean change house and dog house.



LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

Proposed Turkey Point Units 6 and 7
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DATE 5-25-11
WED NIGHTS

JOB # 11771
TP

JOB SITE NAME EWJ

JOB SITE LOCATION TP

PERSONNEL EMPLOYED TODAY

Table with columns: Crew Assignment, Employee - Full Name, Per Diem? (X), Onsite Hours, Offsite Hours, Total Hours. Includes names: George Hagg, Bosit Gulomov, VLAD Izhakov, IGOR POPOV, ANDRY POPOV.

EQUIPMENT DEPLOYED TODAY

Table with columns: Description, Unit #, Status. Includes sub-sections: Working (WK, SB, DS, DN), Mobilization (MB, DM, AY, 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 Job, Onsite Mob/Demob, Safety Meeting, etc.

MATERIALS USED TODAY

Table with columns: Quantity, Description. Includes handwritten entry: 1st Safety Meeting: Housekeeping.

TIME OF ACTIVITY BY ITEM #

Table with columns: From, To, Circle One (AM/PM), Item #. Grid for recording activity times.

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

Circulate and cleanup hole. Trip out lay down weights and collar. Rig up for casing Run. Caliber log 6 1/2 bbl.

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	
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

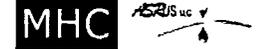


**EW-1 Pad Monitoring Well Water Quality Data
 Northeast Pad Monitoring Well
 (NE-EW PMW)**

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	

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

Project: Florida Power & Light Company
 Miami-Dade County, Florida
 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	

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		
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									



Proposed Turkey Point Units 6 and 7
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X-Y CALIPER GAMMA RAY 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, Inc.		Other Services NONE
Permanent Datum		Pad Level	Elevation	
Log Measured From		Pad Level	Elevation	
Drilling Measured From		Pad Level	Elevation	
			K.B. D.F. G.L.	

Date	26-MAY-2011		
Run Number	TWO		
Depth Driller	259'		
Depth Logger	259'		
Bottom Logged Interval	257'		
Top Log Interval	SURFACE		
Open Hole Size	62.5"		
Type Fluid	MUD		
Density / Viscosity	N/A/N/A		
Max. Recorded Temp.	NA		
Estimated Cement Top	SURFACE		
Time Well Ready	05:50 5/26/2011		
Time Logger on Bottom	05:45 5/26/2011		
Equipment Number	MVGS-1		
Location	Ft. Myers		
Recorded By	S.Miller/C.Miller		
Witnessed By	S.Durall (MHC)	K.Greuel (LCC)	D.Daigle (ASRus)

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	12.25"	SURFACE	255'				
TWO	62.5"	SURFACE	259'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	64"	0.375" WT	SURFACE	33'
Prot. String				
Production String				
Liner				LTP1.db
Invoice No.	2011066	P.O. #:	8fid/las/pdf	* FINAL PRINT *

^^^ 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

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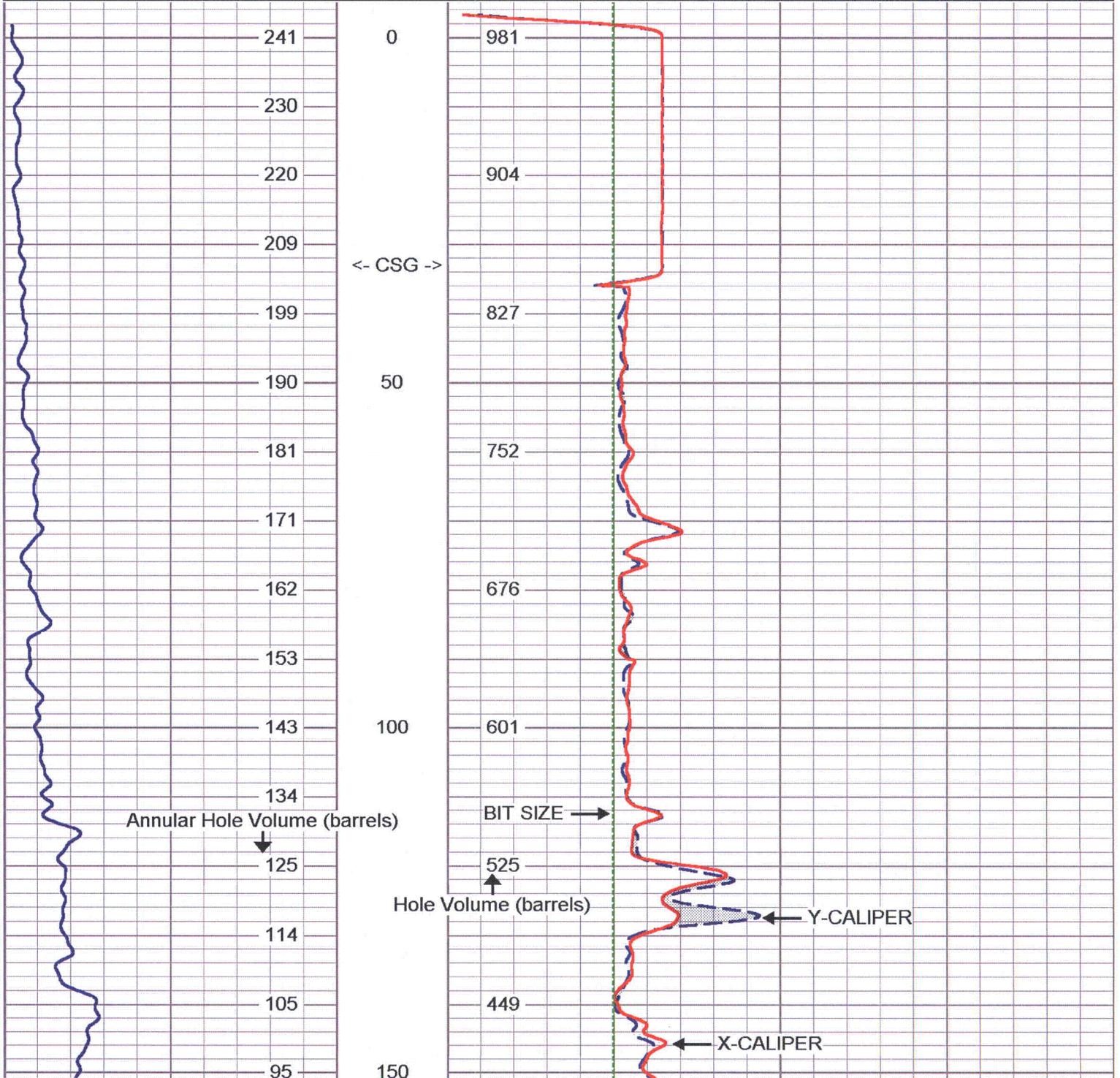
MAXIMUM Caliper Arm Extensions: 72"

FUTURE CASING SIZE: 54"

BOREHOLE VOLUMES IN BARRELS

Database File: ltp1.db
Dataset Pathname: run2/main
Presentation Format: XY6070B5
Dataset Creation: Wed May 25 07:39:05 2011
Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	100	60	Y-CALIPER (in)	70
			60	X-CALIPER (in)	70
			60	BIT SIZE (in)	70

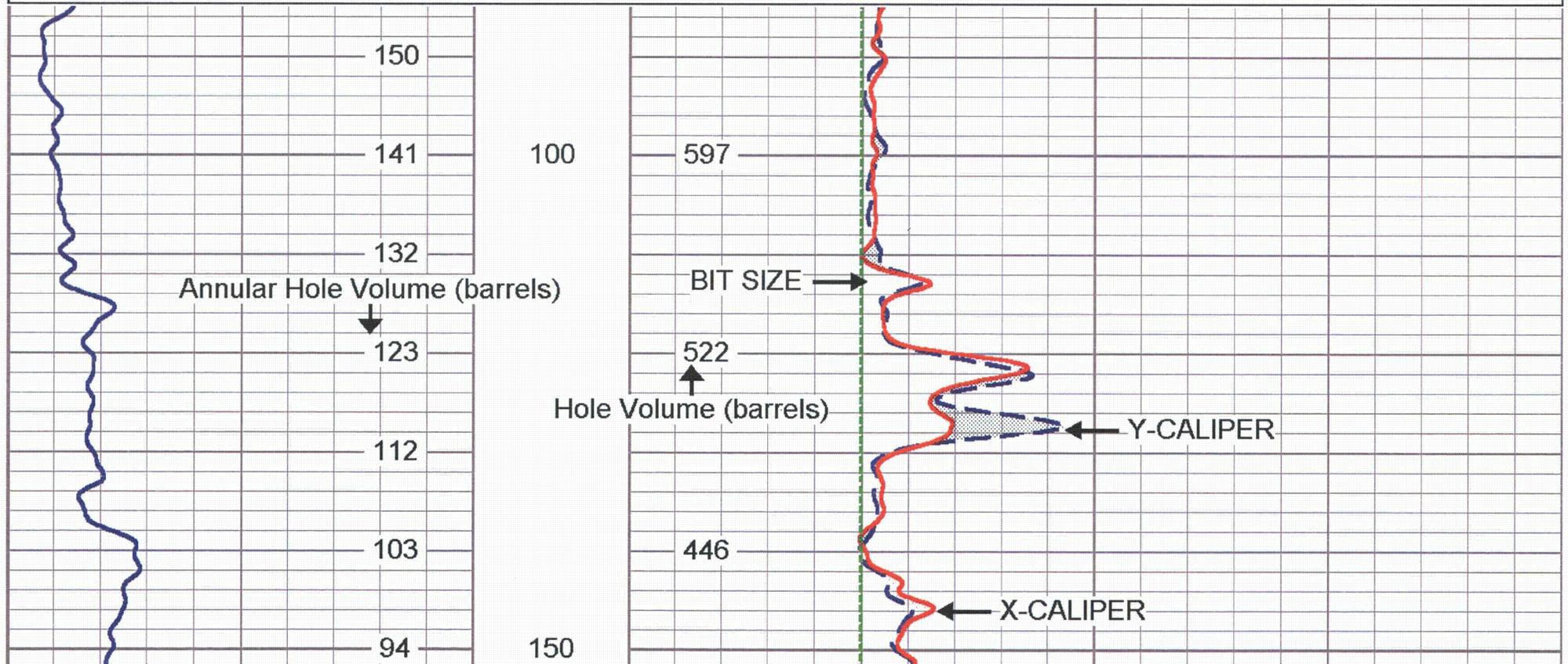


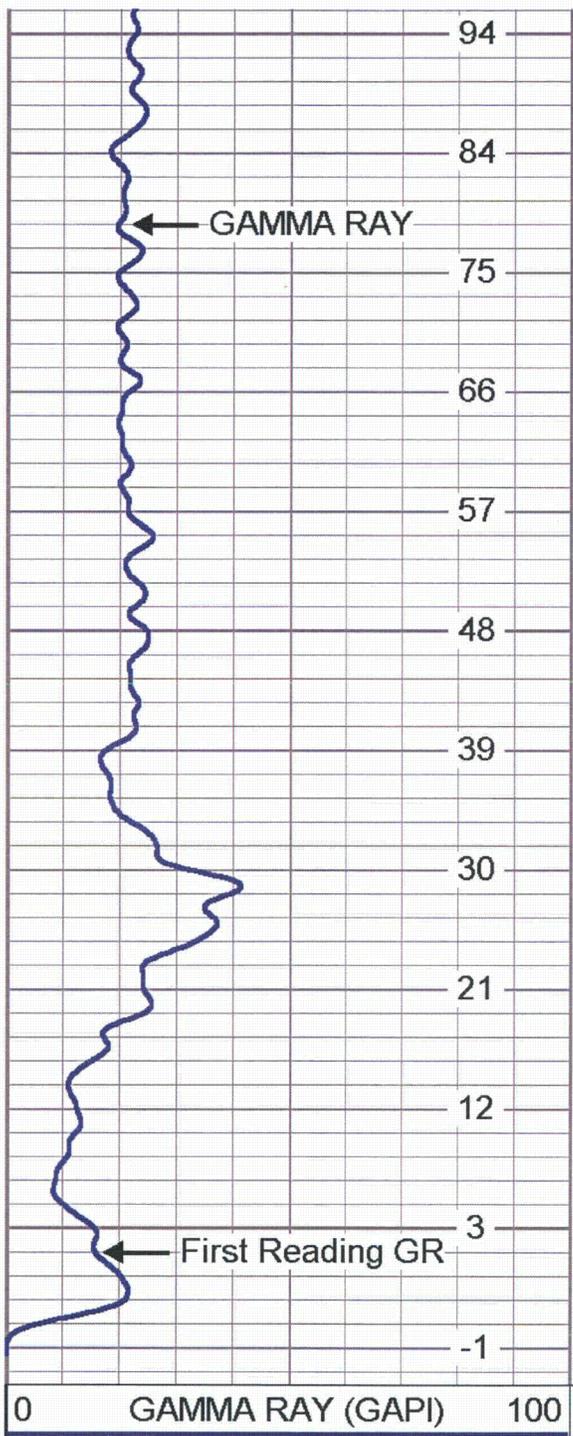
REPEAT SECTION

Database File: ltp1.db
 Dataset Pathname: run2/repeat
 Presentation Format: XY6070B5
 Dataset Creation: Wed May 25 07:44:37 2011
 Charted by: Depth in Feet scaled 1:240

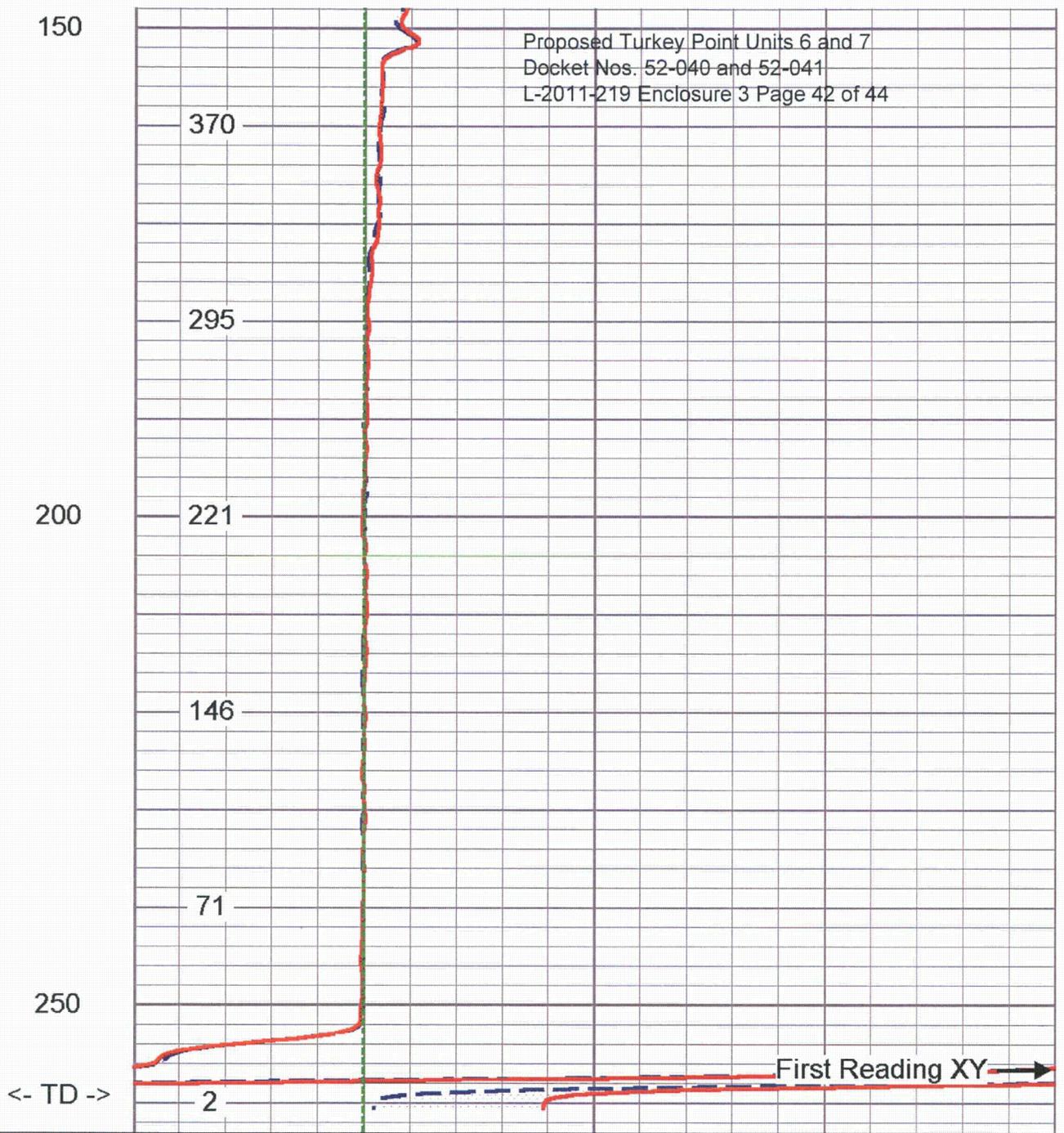
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0	GAMMA RAY (GAPI)	100	60	Y-CALIPER (in)	70
			60	X-CALIPER (in)	70
			60	BIT SIZE (in)	70





0 GAMMA RAY (GAPI) 100



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60 Y-CALIPER (in) 70

60 X-CALIPER (in) 70

60 BIT SIZE (in) 70

XY Caliper Calibration Report

Serial Number:	01L	Proposed Turkey Point Units 6 and 7	
Tool Model:	XYCL	Docket Nos. 52-040 and 52-041	
Performed:	Wed May 25 06:04:21 2011	L-2011-219 Enclosure 3 Page 43 of 44	
Small Ring:	66.25	in	
Large Ring:	72	in	
	X Caliper	Y Caliper	
Reading with Small Ring:	1089	988	cps
Reading with Large Ring:	1133.6	1073.7	cps
Gain:	0.128924	0.1021	
Offset:	-74.1481	-37.6252	

Gamma Ray Calibration Report

Serial Number:	01	
Tool Model:	GROH	
Performed:	Wed May 25 05:53:44 2011	
Calibrator Value:	120	GAPI
Background Reading:	13.485	cps
Calibrator Reading:	130.515	cps
Sensitivity:	1.02538	GAPI/cps

GR 7.60 ft

GR-GROH (01)
40.00 lb 3.50 in OD 2.75 ft

XCAL 2.25 ft
YCAL 2.25 ft

XYC-XYCL (01L)
87.00 lb 3.50 in OD 6.60 ft

Dataset: run2/pass2
Total Length: 9.35 ft
Total Weight: 127.00 lb
O.D. 3.50 in