PIONEER
Pioneer Energy Services

COMPENSATED DENSITY COMPENSATED NEUTRON GAMMA RAY

Company Wiepking-Fullerton Energy LLC
Well Big Wampum #10
Field Great Plains
County Lincoln
State Colorado

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Location: API # : 05-073-06653
1980' FSL & 1980' FWL NESW
SEC 23 TWP 10S RGE 56W

Other Services
Hi. Res. Induction

Permanent Datum GL Elevation 5384
Log Measured From KB
Drilling Measured From KB

Elevation
K.B. 5397
D.F. 5396
G.L. 5384

Date	October 3, 2014
Run Number	1
Depth Driller	8025
Depth Logger	8022
Bottom Logged Interval	8002
Top Log Interval	2000
Casing Driller	319
Casing Logger	Not Logged
Bit Size	7-7/8"
Type Fluid in Hole	Chem Gel
Density / Viscosity	9.2 / 90
pH / Fluid Loss	10.0 / 8.8
Source of Sample	Flowline
Rm @ Meas. Temp	2.01 @ 60 F
Rmf @ Meas. Temp	1.61 @ 60 F
Rmc @ Meas. Temp	2.41 @ 60 F
Source of Rmf / Rmc	Measure / Calc
Rm @ BHT	0.60 @ 200 F
Time Circulation Stopped	0300
Time Logger on Bottom	0330
Maximum Recorded Temperature	200 F
Equipment Number	48
Location	Ft. Morgan, CO
Recorded By	Clint Christensen
Witnessed By	Gregg Smith

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All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not 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.

Comments

Annular volume calculated for 5.5" casing
Murfin Drilling Rig 25
Thank you for using Pioneer Energy Services

Database File: 13672.db
Dataset Pathname: Final
Presentation Format: poro60
Dataset Creation: Fri Oct 03 11:39:10 2014
Charted by: Depth in Feet scaled 1:240

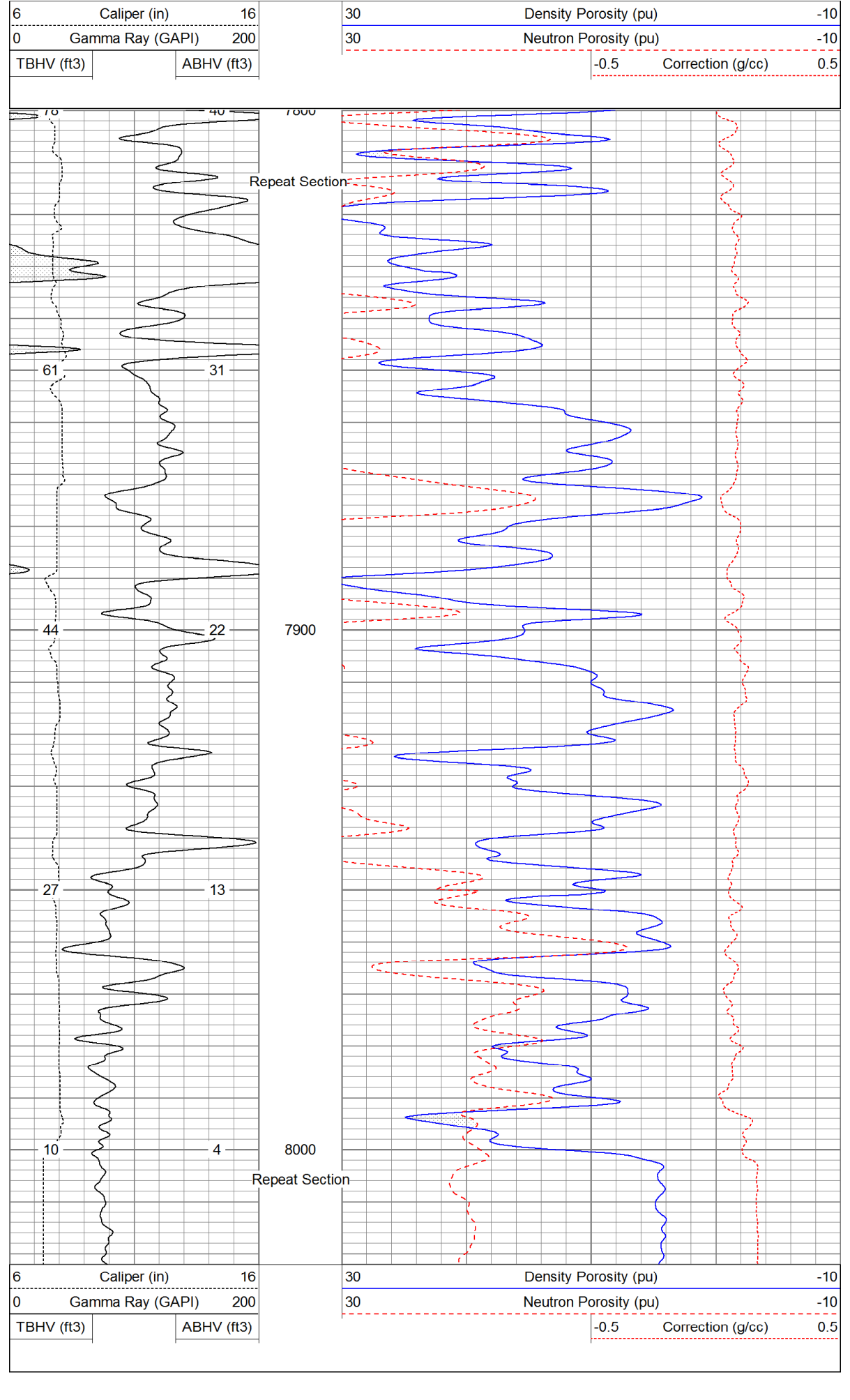
4	Caliper (in)	14	60	Density Porosity (pu) 0
0	Gamma Ray (GAPI)	200	60	Neutron Porosity (pu) 0
TBHV (ft3)		ABHV (ft3)		-0.5 Corr (g/cc) 0.5

4 Caliper (in) 14 | 60 Density Porosity (pu) 0
0 Gamma Ray (GAPI) 200 | 60 Neutron Porosity (pu) 0
TBHV (ft3) ABHV (ft3) | -0.5 Corr (g/cc) 0.5

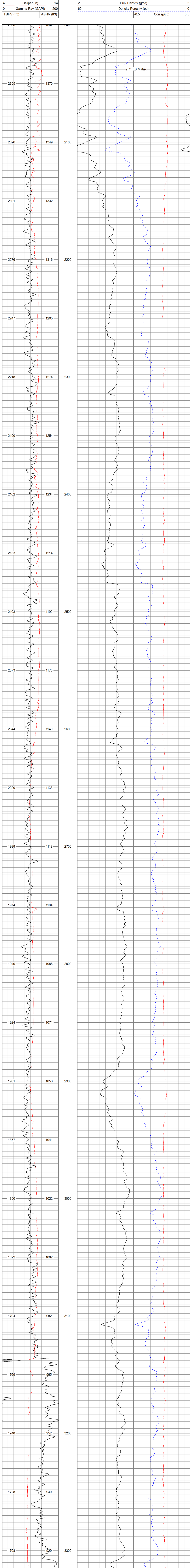
Database File: 13672.db
Dataset Pathname: Final
Presentation Format: poro
Dataset Creation: Fri Oct 03 11:39:10 2014
Charted by: Depth in Feet scaled 1:240

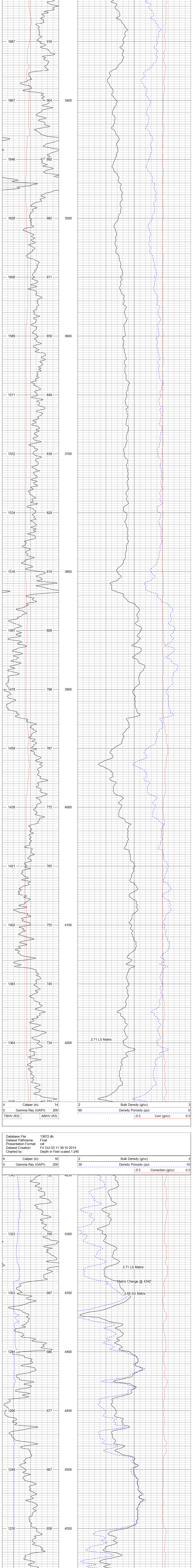
6	Caliper (in)	16	30	Density Porosity (pu) -10
0	Gamma Ray (GAPI)	200	30	Neutron Porosity (pu) -10
TBHV (ft3)		ABHV (ft3)		-0.5 Correction (g/cc) 0.5

Database File: 13672.db
Dataset Pathname: repeat
Presentation Format: poro
Dataset Creation: Fri Oct 03 12:00:37 2014 by Calc 0
Charted by: Depth in Feet scaled 1:240



Database File: 13672.db
Dataset Pathname: Final
Presentation Format: cdl60
Dataset Creation: Fri Oct 03 11:39:10 2014
Charted by: Depth in Feet scaled 1:240





Database File: 13672.db
Dataset Pathname: Final
Presentation Format: ldt
Dataset Creation: Fri Oct 03 11:39:10 2014
Charted by: Depth in Feet scaled 1:240

Calibration Report

Database File: 13672.db
Dataset Pathname: pass1
Dataset Creation: Fri Oct 03 07:18:57 2014 by Log 0

Dual Induction Calibration Report

Serial-Model: 1011-PSI
Surface Cal Performed:

	Readings		References			Results	
Loop:	Air	Loop	Air	Loop		m	b
Deep	0.000	1.000	0.000	1.000	mmho/m	0.525	-27.000
Medium	0.000	1.000	0.000	1.000	mmho/m	0.450	-27.000

Compensated Density Calibration Report

Serial-Model: 998-PSI
Source / Verifier: /
Master Calibration Performed: Mon Sep 01 11:47:50 2014
Before Survey Verification Performed:
After Survey Verification Performed:

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.750	g/cc	7210.00	9816.00	cps
Aluminum	2.690	g/cc	1326.00	6231.00	cps

Spine Angle = 74.98
Density/Spine Ratio = 0.536

	Size		Reading
Small Ring	6.20	in	1.67
Large Ring	19.85	in	1.38

Compensated Neutron Calibration Report

Serial Number: 826
Tool Model: PSI

CALIBRATION

Detector	Readings		Target		Normalization
Short Space	1.00	cps	1.00	cps	1.9000
Long Space	1.00	cps	1.00	cps	2.0900

Gamma Ray Calibration Report

Serial Number: 939
Tool Model: PSI
Performed: Wed Sep 03 09:19:35 2014

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 0.6100 GAPI/cps