PIONEER

Pioneer Energy Services

COMPENSATED DENSITY
COMPENATED NEUTRON
GAMMA RAY

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

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

Location: API # : 05073065870000

1980' FSL & 660' FEL
NE SE

SEC 24 TWP 10S RGE 56W

Other Services
Hi. Res. Induction

Permanent Datum GL Elevation 5269
Log Measured From KB
Drilling Measured From KB

Elevation
K.B. 5282
D.F. 5281
G.L. 5269

Date	June 15, 2014		
Run Number	1		
Depth Driller	8000'		
Depth Logger	8002'		
Bottom Logged Interval	7982'		
Top Log Interval	1990'		
Casing Driller	337'		
Casing Logger	337'		
Bit Size	7-7/8"		
Type Fluid in Hole	Chem Gel		
Density / Viscosity	9.3 / 67		
pH / Fluid Loss	8.0 / 10.8		
Source of Sample	Flowline		
Rm @ Meas. Temp	1.55 @ 60 F		
Rmf @ Meas. Temp	1.24 @ 60 F		
Rmc @ Meas. Temp	1.86 @ 60 F		
Source of Rmf / Rmc	Calc / Calc		
Rm @ BHT	0.47 @ 200 F		
Time Circulation Stopped	0300		
Time Logger on Bottom	1015		
Maximum Recorded Temperature	200 F		
Equipment Number	49		
Location	Brighton, CO		
Recorded By	Matt Gill		
Witnessed By	Gregg Smith		

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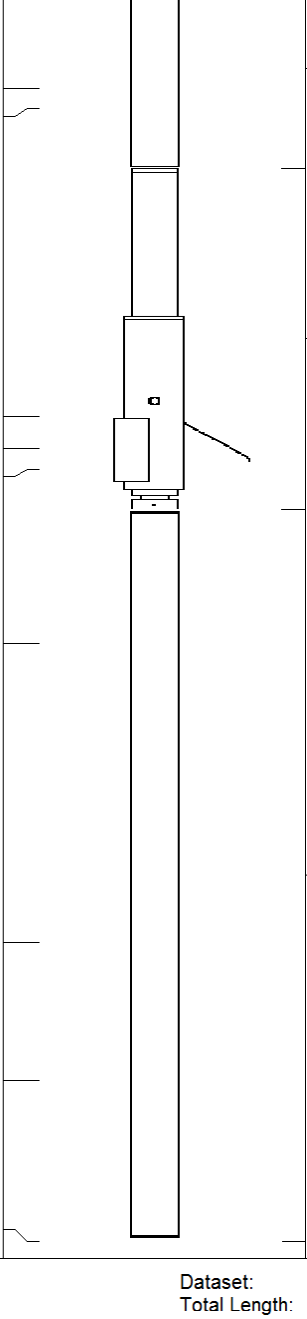
All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not be liable or responsible for any loss, costs, damages, 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



Sensor	Offset (ft)	Description	Len (ft)	OD (in)	Wt (lb)
		CHD (~0)	2.00	3.50	30.00
GR	0.00	GR-PSI (939)	2.92	3.50	40.00
CNLSC CNSSC	-3.67 -4.17	CNT-PSI (826)	5.00	3.50	70.00
DCAL LSD SSD	-11.84 -12.67 -13.17	CDL-PSI (128)	8.50	5.00	285.00
RLL3	-17.52	DIL-PSI (1017)	18.25	3.75	175.00
CILD	-24.97				
CILM	-28.42				
SP	-32.42				

Dataset: 13580.db: field/well/run1/final
Total Length: 36.67 ft
Total Weight: 600.00 lb
O.D. 5.00 in

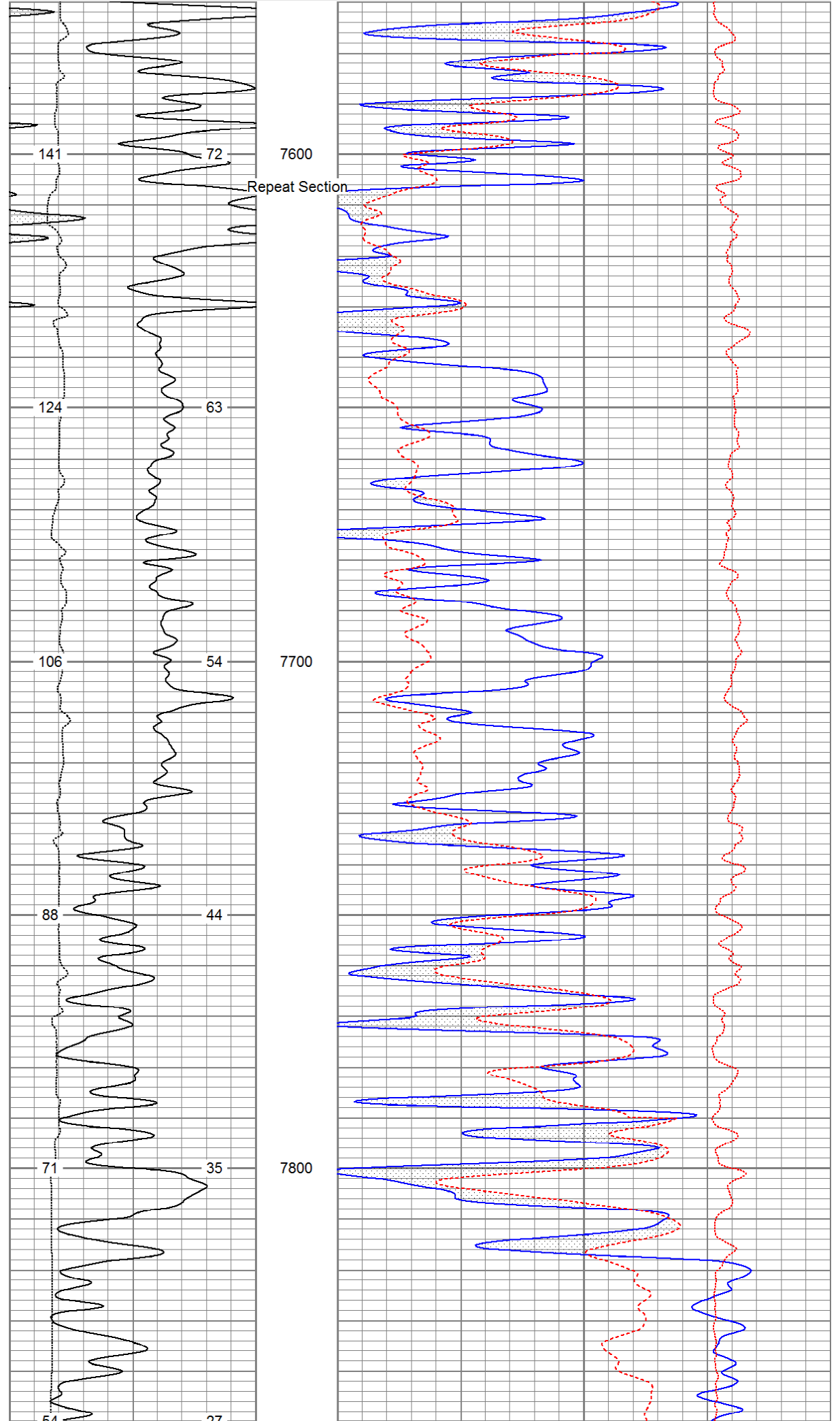
Database File: 13580.db
Dataset Pathname: final
Presentation Format: poro60
Dataset Creation: Sun Jun 15 11:09:52 2014
Charted by: Depth in Feet scaled 1:240

Database File: 13580.db
Dataset Pathname: final
Presentation Format: poro
Dataset Creation: Sun Jun 15 11:09:52 2014
Charted by: Depth in Feet scaled 1:240

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

Database File:	13580.db
Dataset Pathname:	pass2.1
Presentation Format:	poro
Dataset Creation:	Sun Jun 15 10:26:53 2014 by Calc 0
Charted by:	Depth in Feet scaled 1:240

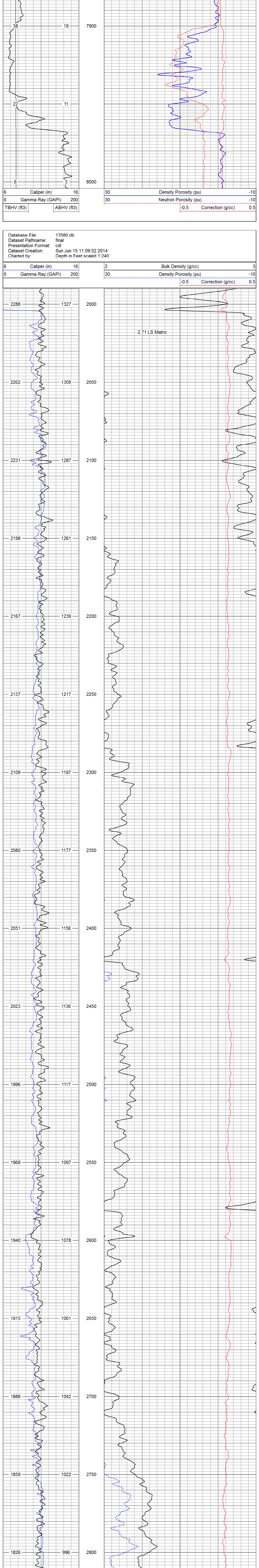
6 Caliper (in) 16
0 Gamma Ray (GAPI) 200
TBHV (ft3) ABHV (ft3)
30 Density Porosity (pu) -10
30 Neutron Porosity (pu) -10
-0.5 Correction (g/cc) 0.5



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

Database File:	13580.db
Dataset Pathname:	final
Presentation Format:	cdl
Dataset Creation:	Sun Jun 15 11:09:52 2014
Charted by:	Depth in Feet scaled 1:240

6 Caliper (in) 16
0 Gamma Ray (GAPI) 200
2 Bulk Density (g/cc) 3
30 Density Porosity (pu) -10
-0.5 Correction (g/cc) 0.5



2850
2900
2950
3000
3050
3100
3150
3200
3250
3300
3350
3400
2.71 LS Matrix
3450
3500
3550
3600
3650
3700
3750
3800
3850
3900
3950
4000
4050
4100
4150
2.71 LS Matrix
Matrix Change @ 4190'
2.68 SS Matrix
4200
4250
4300
4350
4400
4450
4500
4550
2.68 SS Matrix
Matrix Change @ 4610'
2.71 LS Matrix
4600
4650
4700
4750
4800
4850
4900
4950
5000
5050
5100
5150
5200
5250
5300
Caliper opened
5350
Caliper Closed
5400
5450
5500
5550
Caliper Closed
5600
5650
5700
5750
5800
5850
5900
5950
6000
6050
6100
6150
6200
6250
6300
6350
6400
6450
6500
6550
6600
6650
6700
6750
6800

Calibration Report

Database File: 13580.db
Dataset Pathname: pass3.1
Dataset Creation: Sun Jun 15 11:07:26 2014 by Calc 0

Dual Induction Calibration Report

Serial-Model: 1017-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	0.580	-43.000
Medium	0.000	1.000	0.000	1.000	mmho/m	0.490	-34.000

Compensated Density Calibration Report

Serial-Model: 128-PSI
Master Calibration Performed: Sat May 24 17:51:40 2014

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.750	g/cc	5900.80	3069.93	cps
Aluminum	2.690	g/cc	1074.43	1919.88	cps

	Size		Reading
Small Ring		in	
Medium Ring		in	
Large Ring		in	

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: Sat May 17 22:07:40 2014

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 0.6200 GAPI/cps