PIONEER

Pioneer Energy Services

COMPENSATED DENSITY
COMPENSATED NEUTRON
GAMMA RAY

Company Western Operating Co.
Well Cullen Boyero 1-30
Field Wildcat
County Lincoln
State Colorado

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Well	Cullen Boyero 1-30
Field	Wildcat
County	Lincoln
State	Colorado

Location: API # : 05-073-06485-0000

1200' FNL & 1885' FEL
NWNE

SEC 30 TWP 12S RGE 52W

Other Services
Induction

Permanent Datum	GL	Elevation	4810
Log Measured From	KB		
Drilling Measured From	KB		

Elevation
K.B. 4823
D.F. 4822
G.L. 4810

Date	December 16, 2012		
Run Number	1		
Depth Driller	6765		
Depth Logger	6757		
Bottom Logged Interval	6737		
Top Log Interval	1700		
Casing Driller	475		
Casing Logger	Not Logged		
Bit Size	7+7/8"		
Type Fluid in Hole	Chem Gel		
Density / Viscosity	9.2 / 65		
pH / Fluid Loss	8.5 / 8.5		
Source of Sample	Flowline		
Rm @ Meas. Temp	3.25 @ 60°F		
Rmf @ Meas. Temp	2.00 @ 60°F		
Rmc @ Meas. Temp	4.35 @ 60°F		
Source of Rmf / Rmc	Measure / Calc		
Rm @ BHT	1.38 @ 141°F		
Time Circulation Stopped	1800 12/15		
Time Logger on Bottom	0130		
Maximum Recorded Temperature	141 F		
Equipment Number	49		
Location	Brighton, CO		
Recorded By	Shaun Schuman		
Witnessed By	Gary Doke	Cliff Nolte	

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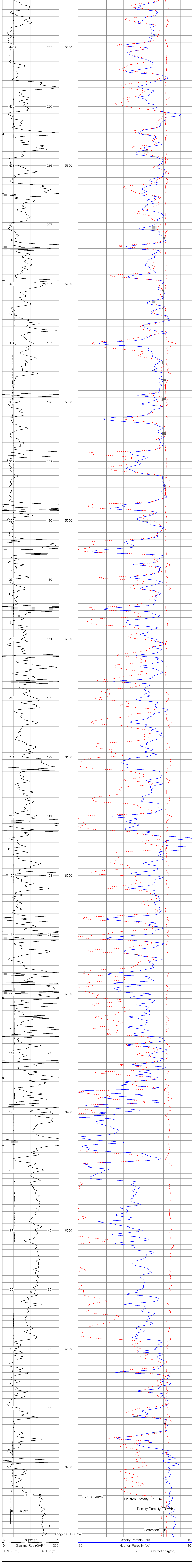
All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not be liable or responsible for any loss, costs, damages, 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 Rig 25
Thank you for using Pioneer Energy Services!

Database File:	13251.db
Dataset Pathname:	main
Presentation Format:	poro
Dataset Creation:	Sun Dec 16 04:12:56 2012
Charted by:	Depth in Feet scaled 1:240



Database File: 13251.db
Dataset Pathname: main
Presentation Format: cdl
Dataset Creation: Sun Dec 16 04:12:56 2012
Charted by: Depth in Feet scaled 1:240

4350
4400
4450
4500
4550
4600
4650
4700
4750
4800
4850
4900
4950
5000
5050
5100
5150
5200
5250
5300
5350
5400
5450
5500
5550
5600
5650
5700
5750
5800
5850
5900
5950
6000
6050
6100
6150
6200
6250
6300
6350
6400
6450
6500
6550
6600
6650
6700
6750
Gamma Ray
Caliper
Logger's TD: 6757'
2.71 LS Matrix
Bulk Density FR
Density Porosity
Correction
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