PIONEER
Pioneer Energy Services

DUAL INDUCTION
COMPENSATED DENSITY
COMPENSATED NEUTRON
MICROLOG

Company	Charles Dunning
Well	IKEY 1
Field	Roman Nose North
County	Adams
State	Colorado

Company Charles Dunning
Well IKEY 1
Field Roman Nose North
County Adams State Colorado
Location: API # : 05001097500000
2269' FSL & 601' FEL
NESW
SEC 33 TWP 3S RGE 58W
Other Services: None

Permanent Datum	GL	Elevation	4890
Log Measured From	KB		
Drilling Measured From	KB		

Elevation
K.B. 4902
D.F. 4901
G.L. 4890

Date	November 7, 2012		
Run Number	1		
Depth Driller	5679		
Depth Logger	5683		
Bottom Logged Interval	5683		
Top Log Interval	Casing		
Casing Driller	347		
Casing Logger	347		
Bit Size	7+7/8"		
Type Fluid in Hole	Chem Gel		
Density / Viscosity	9.2 / 70		
pH / Fluid Loss	8.0 / 9.0		
Source of Sample	Flowline		
Rm @ Meas. Temp	3.50 @ 65 F		
Rmf @ Meas. Temp	2.80 @ 65 F		
Rmc @ Meas. Temp	4.40 @ 65 F		
Source of Rmf / Rmc	Measure / Calc		
Rm @ BHT	1.44 @ 158 F		
Time Circulation Stopped	1400		
Time Logger on Bottom	2100		
Maximum Recorded Temperature	158 F		
Equipment Number	49		
Location	Brighton, CO		
Recorded By	Schuman		
Witnessed By	Dunning		

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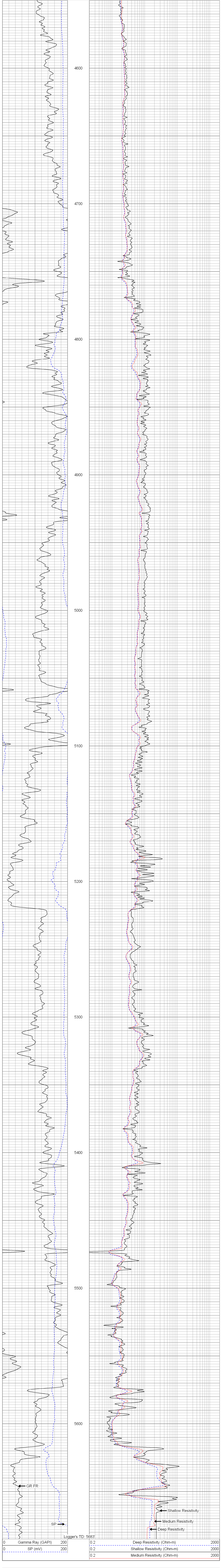
All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not be liable or responsible for any loss, costs, damages,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

Database File: 13203.db
Dataset Pathname: main
Presentation Format: dil
Dataset Creation: Wed Nov 07 22:26:08 2012
Charted by: Depth in Feet scaled 1:240

0 Gamma Ray (GAPI) 200
0 SP (mV) 200
0.2 Deep Resistivity (Ohm-m) 2000
0.2 Shallow Resistivity (Ohm-m) 2000
0.2 Medium Resistivity (Ohm-m) 2000



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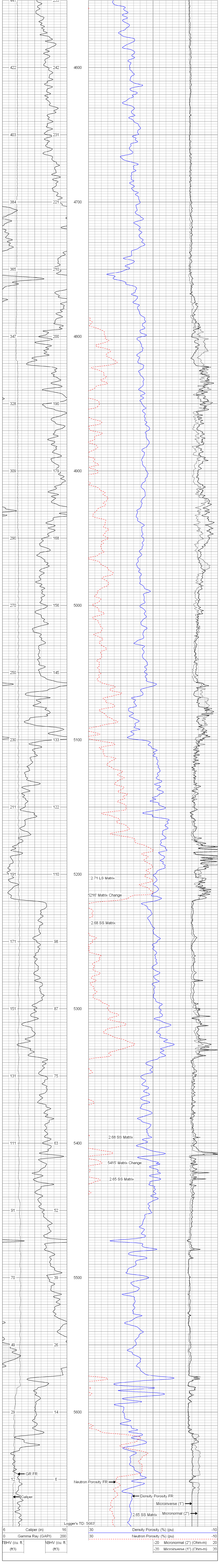
0.2 Deep Resistivity (Ohm-m) 2000
0.2 Shallow Resistivity (Ohm-m) 2000
0.2 Medium Resistivity (Ohm-m) 2000

Database File: 13203.db
Dataset Pathname: main
Presentation Format: smdc
Dataset Creation: Wed Nov 07 22:26:08 2012
Charted by: Depth in Feet scaled 1:240

6 Caliper (in) 16
0 Gamma Ray (GAPI) 200
TBHV (cu. ft.) (ft3)
ABHV (cu. ft.) (ft3)
30 Density Porosity (%) (pu) -10
30 Neutron Porosity (%) (pu) -10
-20 Micronormal (2") (Ohm-m) 20
-20 Microinverse (1") (Ohm-m) 20



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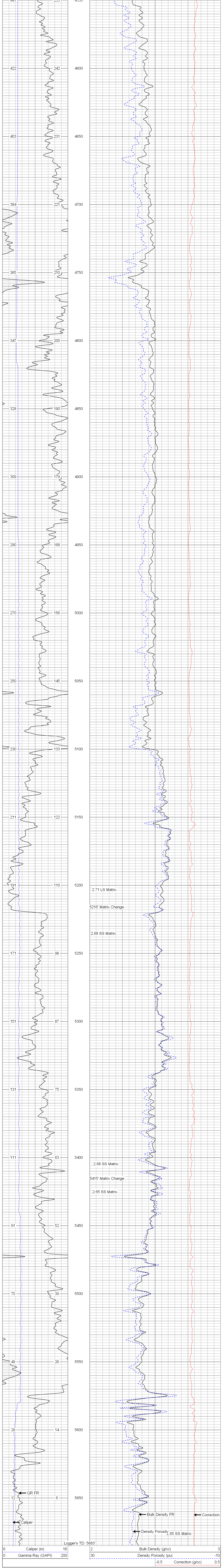
ABHV (cu. ft.) (ft3)
30 Density Porosity (%) (pu) -10
30 Neutron Porosity (%) (pu) -10
-20 Micronormal (2") (Ohm-m) 20
-20 Microinverse (1") (Ohm-m) 20

Database File: 13203.db
Dataset Pathname: main
Presentation Format: cdl
Dataset Creation: Wed Nov 07 22:26:08 2012
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



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