Company	Great Western Oil & Gas LLC
Well	Great Western 25-24-24
Field	Wattenberg
County	Weld
State	Colorado

PIONEER
Pioneer Energy Services

HIGH RESOLUTION INDUCTION COMPENSATED DENSITY COMPENSATED NEUTRON

Company	Great Western Oil & Gas LLC		
Well	Great Western 25-24-24		
Field	Wattenberg		
County	Weld	State	Colorado

Location: API #: 05123356990000
SHL: 2383' FSL & 1019' FWL NWSW
SEC 25 TWP 6N RGE 67W
BHL: 18' FNL & 1332' FWL NENW
SEC 36 TWP 6N RGE 67W

Other Services
None

Permanent Datum	GL	Elevation	4752
Log Measured From	KB		
Drilling Measured From	KB		

Elevation
K.B. 4766
D.F. 4765
G.L. 4752

Date	July 30, 2012		
Run Number	1		
Depth Driller	7850		
Depth Logger	7840		
Bottom Logged Interval	7840		
Top Log Interval	Casing		
Casing Driller	731		
Casing Logger	731		
Bit Size	7-7/8"		
Type Fluid in Hole	Chem Gel		
Density / Viscosity	9.4 / 52		
pH / Fluid Loss	8.0 / 10.4		
Source of Sample	Flow Line		
Rm @ Meas. Temp	2.85 @ 79 F		
Rmf @ Meas. Temp	2.28 @ 79 F		
Rmc @ Meas. Temp	3.42 @ 79 F		
Source of Rmf / Rmc	Measure / Calc		
Rm @ BHT	1.07 @ 210 F		
Time Circulation Stopped	1500		
Time Logger on Bottom	2200		
Maximum Recorded Temperature	210 F		
Equipment Number	52		
Location	Brighton, CO		
Recorded By	Kelly Keever		
Witnessed By	Shaun Armstrong	Mark Scanniello	

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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

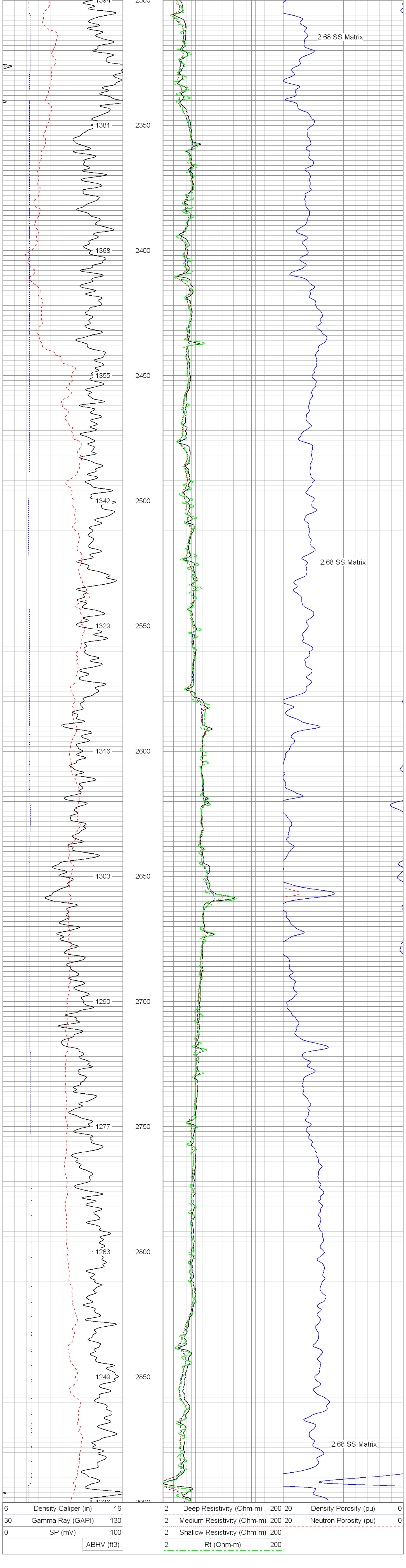
Annular volume calculated for 4-1/2" casing
Cade Drilling Rig 25
Thank you for using Pioneer Energy Services!!
API #: 05-123-35699-00

Database File: 13075.db
Dataset Pathname: final
Presentation Format: pdc1
Dataset Creation: Mon Jul 30 23:13:46 2012
Charted by: Depth in Feet scaled 1:240

6 Density Caliper (in) 16
30 Gamma Ray (GAPI) 130
0 SP (mV) 100
ABHV (ft3)

2 Deep Resistivity (Ohm-m) 200
2 Medium Resistivity (Ohm-m) 200
2 Shallow Resistivity (Ohm-m) 200
2 Rt (Ohm-m) 200

20 Density Porosity (pu) 0
20 Neutron Porosity (pu) 0



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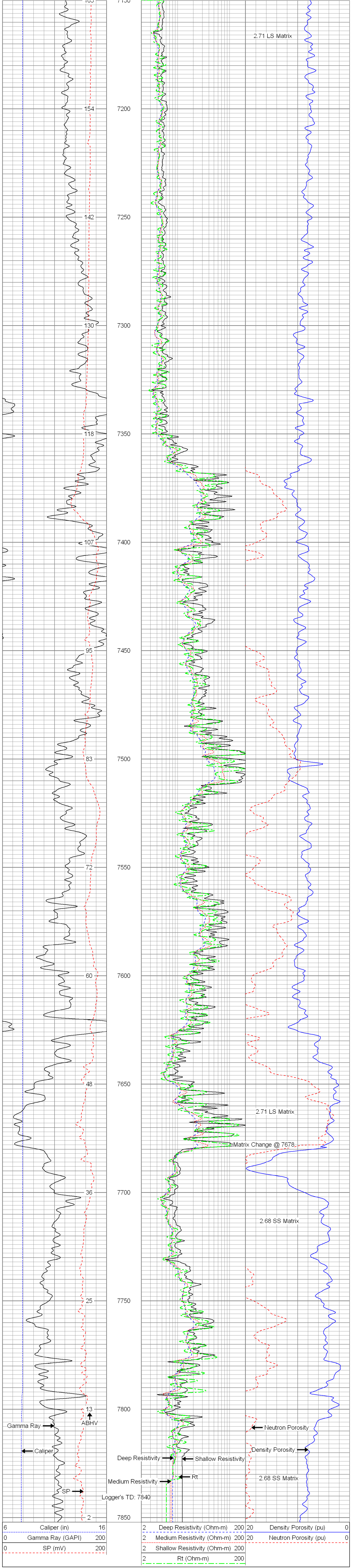

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