Pioneer Energy Services

HIGH RESOLUTION INDUCTION
COMPENSATED DENSITY
COMPENSATED NEUTRON

Company Sundance Energy Inc.
Well HFE 22SE
Field Wattenberg
County Weld
State Colorado

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County Weld **State** Colorado

Location: API # : 05123361340000

SHL: 1120' FSL & 2226' FEL SWSE
BHL: 1348' FSL & 1323' FEL C SE

SEC 22 TWP 4N RGE 68W

Other Services
None

Permanent Datum	GL	Elevation	4944
Log Measured From	KB		
Drilling Measured From	KB		

Elevation
K.B. 4960
D.F. 4959
G.L. 4944

Date	November 3, 2012		
Run Number	1		
Depth Driller	7500		
Depth Logger	7495		
Bottom Logged Interval	7495		
Top Log Interval	Casing		
Casing Driller	570		
Casing Logger	570		
Bit Size	7+7/8"		
Type Fluid in Hole	Chem Gel		
Density / Viscosity	9.4 / 60		
pH / Fluid Loss	8.0 / 9.5		
Source of Sample	Flowline		
Rm @ Meas. Temp	3.80 @ 60 F		
Rmf @ Meas. Temp	2.50 @ 60 F		
Rmc @ Meas. Temp	4.75 @ 60 F		
Source of Rmf / Rmc	Measure / Calc		
Rm @ BHT	1.10 @ 208 F		
Time Circulation Stopped	0200		
Time Logger on Bottom	0730		
Maximum Recorded Temperature	208 F		
Equipment Number	52		
Location	Brighton, CO		
Recorded By	Schuman		
Witnessed By	Hudson		

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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

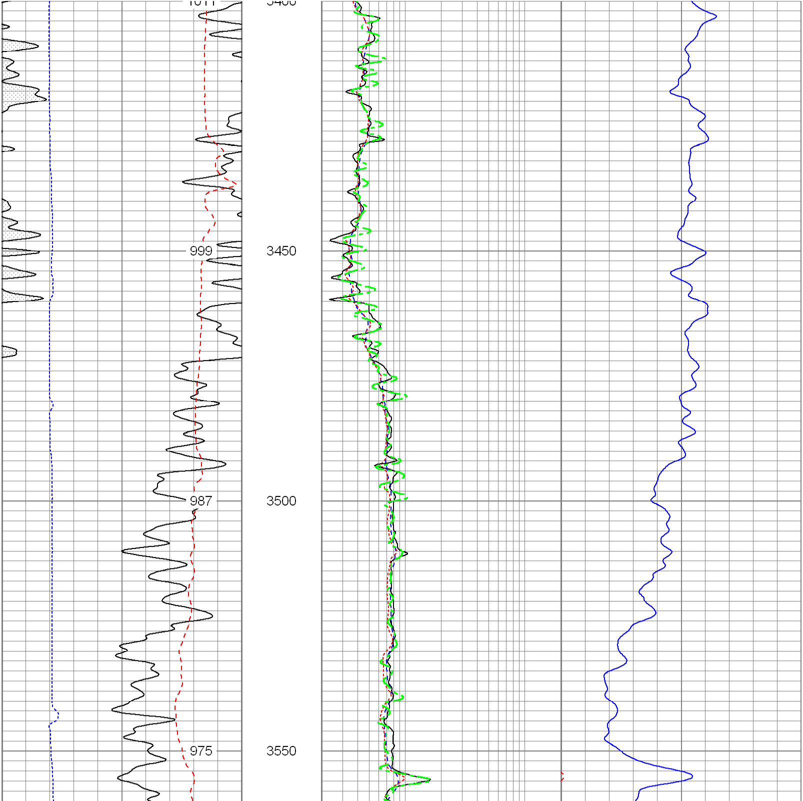
Annular volume calculated for 4.5" casing
Ensign Drilling Rig 55
Thank you for using Pioneer Wireline!
No repeat pass due to hole conditions.

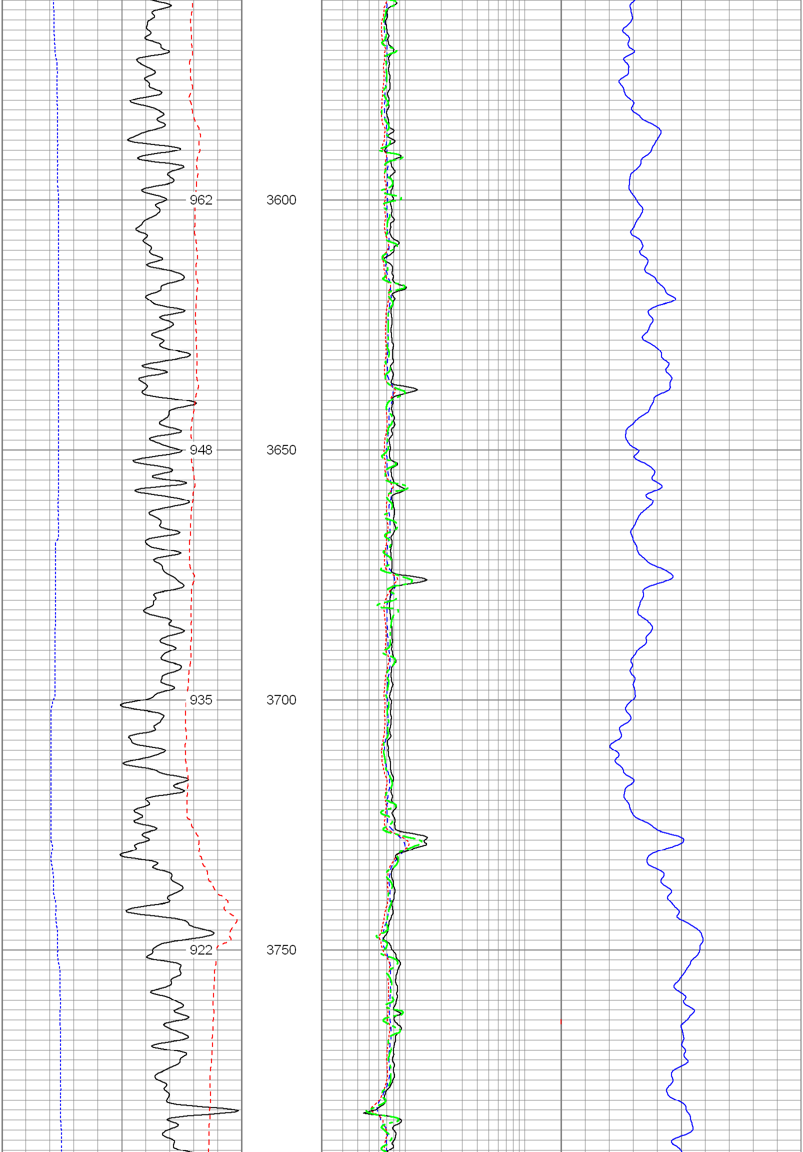
Database File:	13143.db
Dataset Pathname:	main
Presentation Format:	pdc1
Dataset Creation:	Sat Nov 03 08:51:08 2012
Charted by:	Depth in Feet scaled 1:240

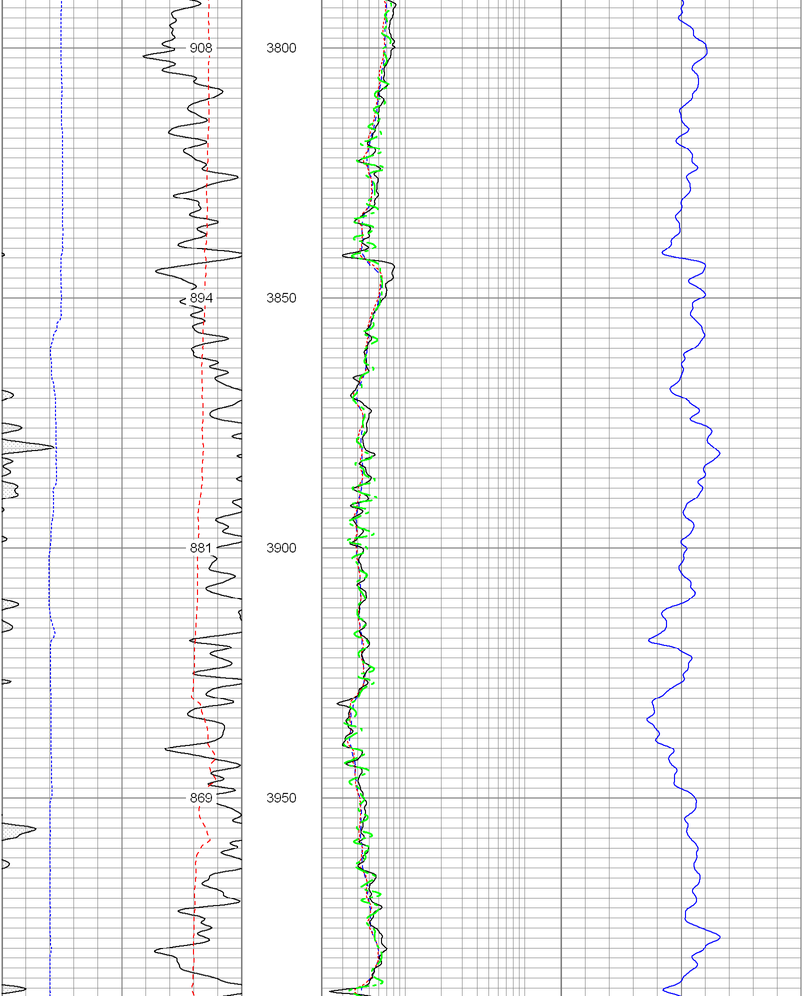
6 Density Caliper (in) 16
30 Gamma Ray (GAPI) 130
80 SP (mV) 180
ABHV (ft3)

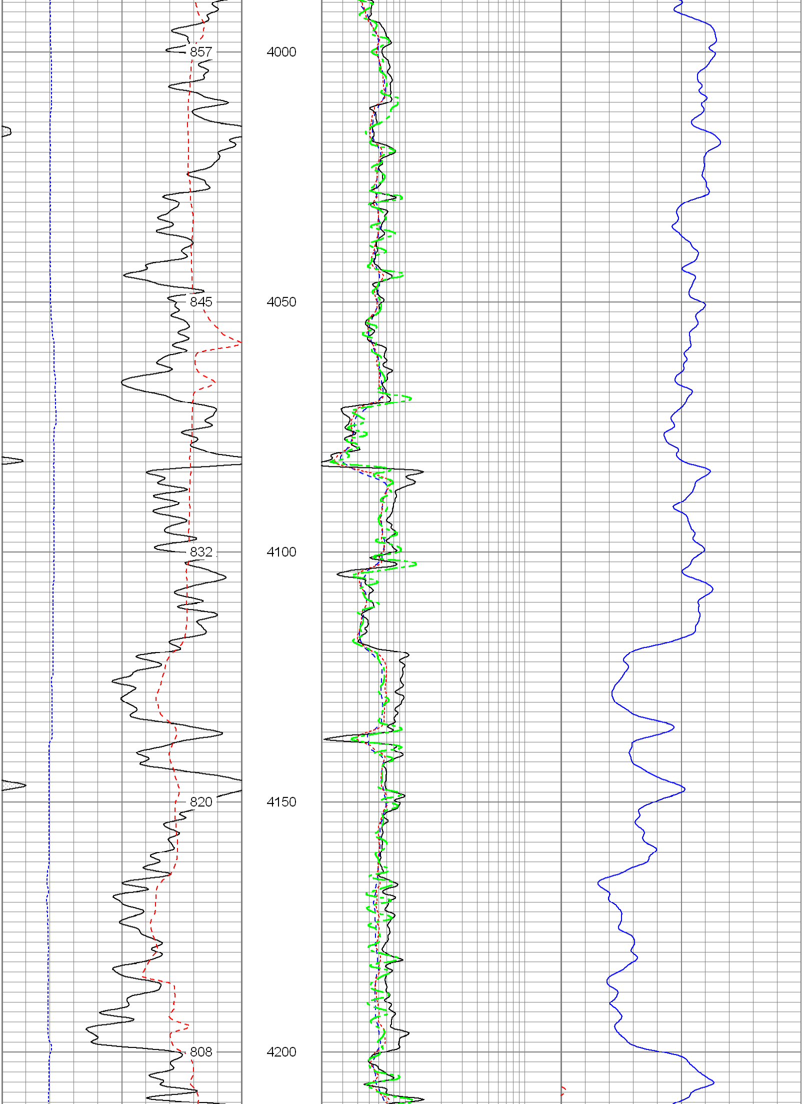
2 Deep Resistivity (Ohm-m) 200
2 Medium Resistivity (Ohm-m) 200
2 Shallow Resistivity (Ohm-m) 200
2 Rt (Ohm-m) 200

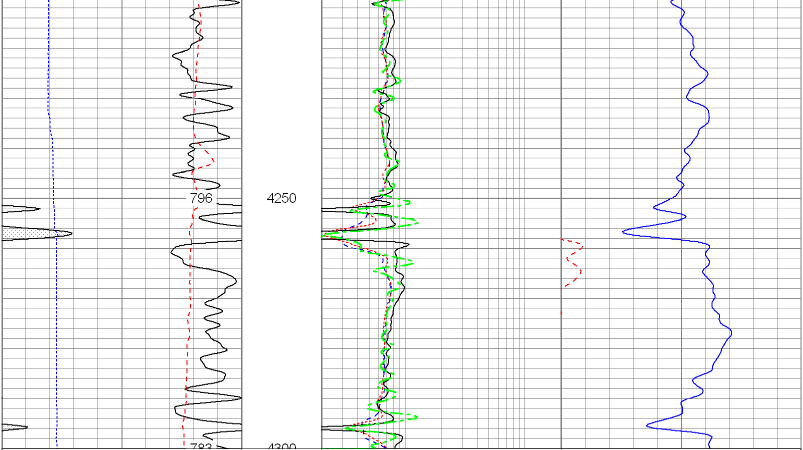
20 Density Porosity (pu) 0
20 Neutron Porosity (pu) 0











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80 SP (mV) 180	2 Shallow Resistivity (Ohm-m) 200	
ABHV (ft3)	2 Rt (Ohm-m) 200	

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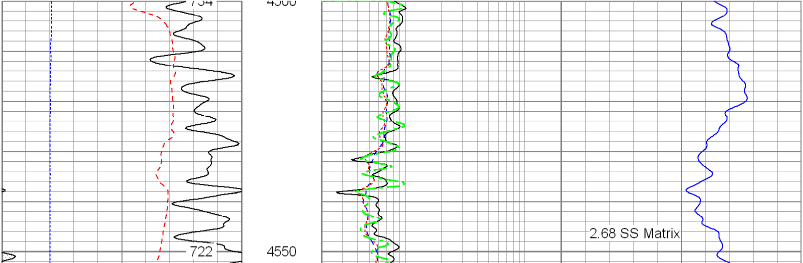

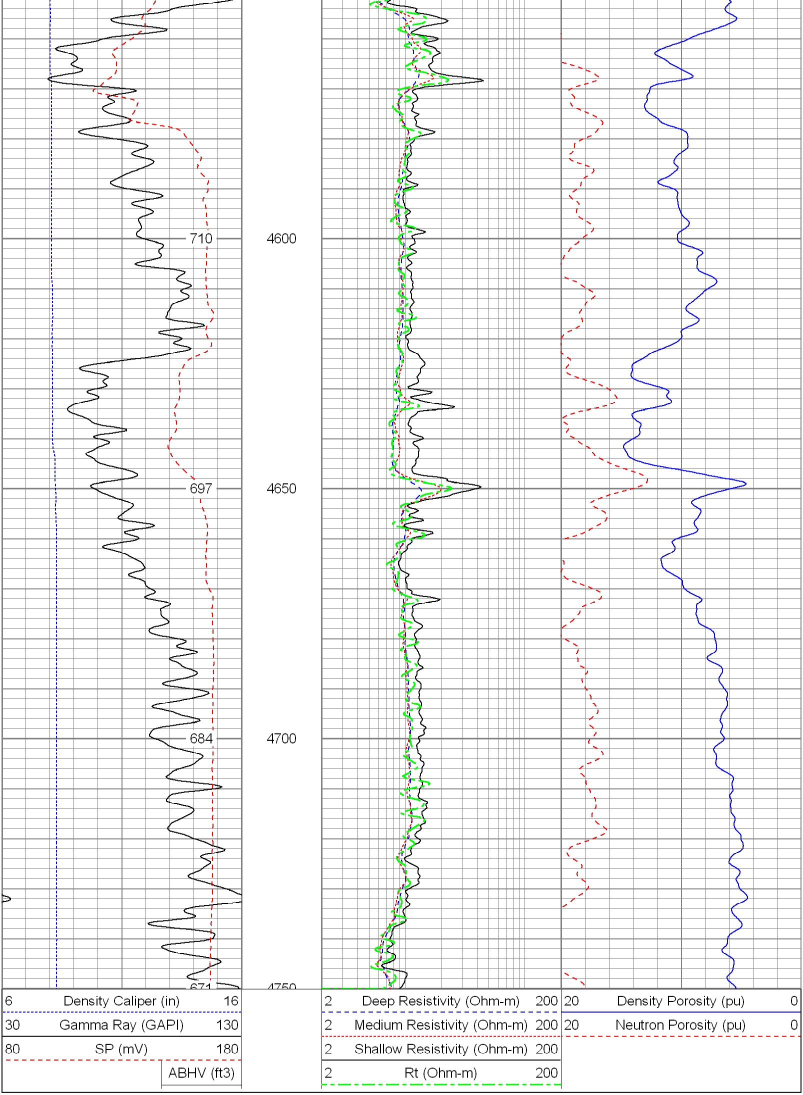

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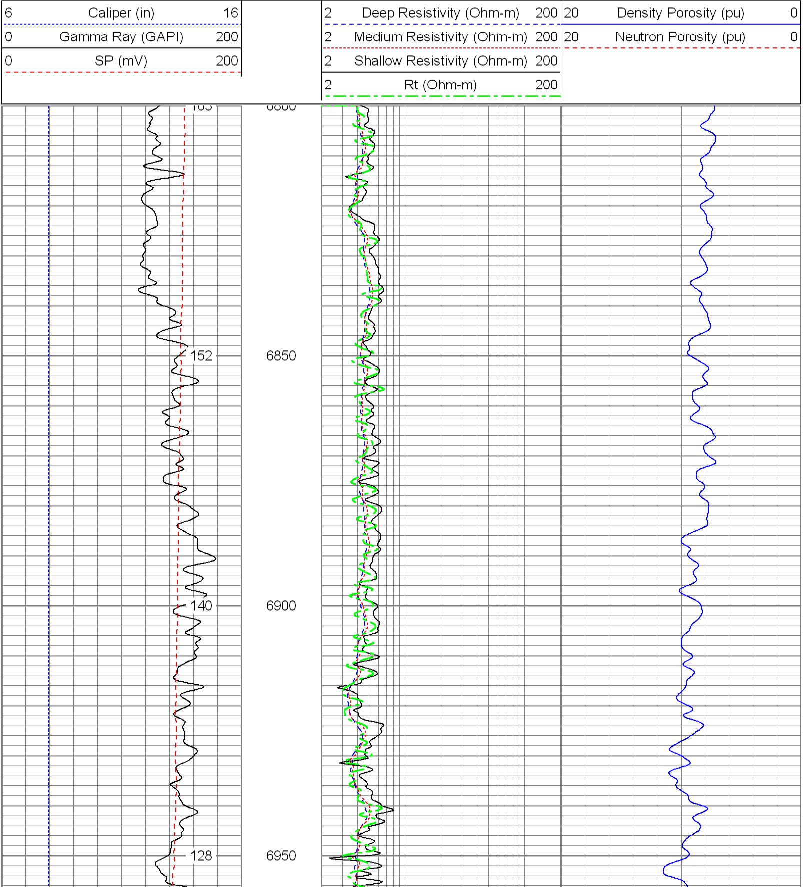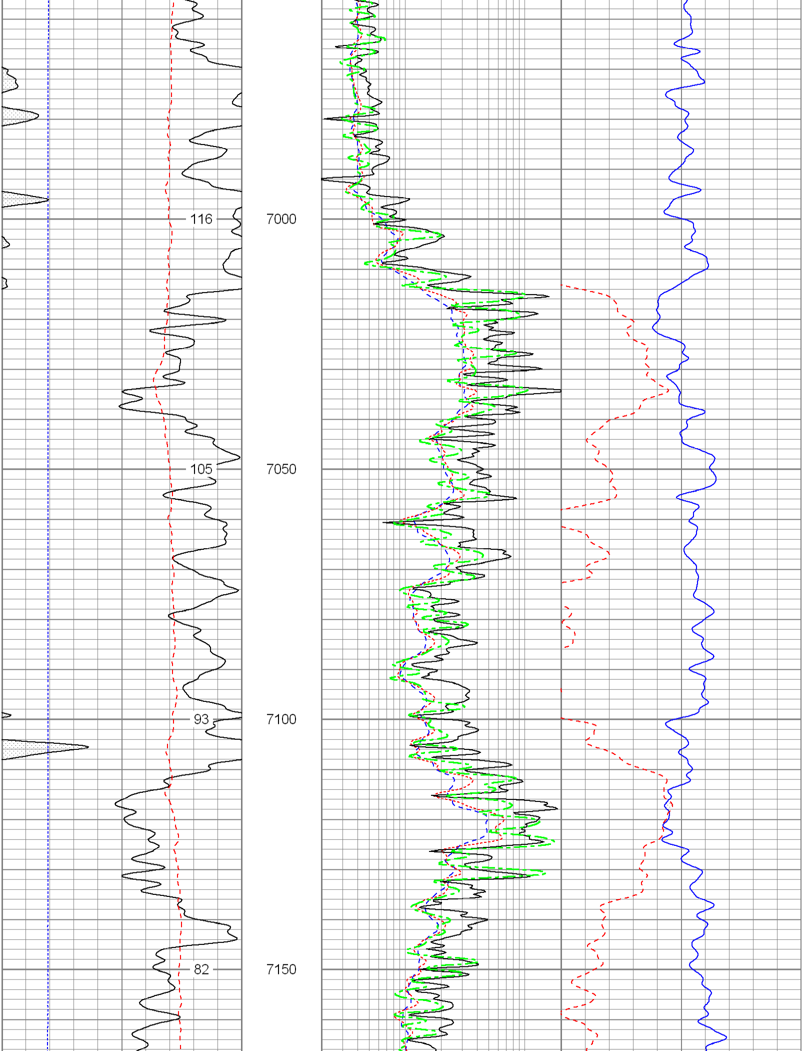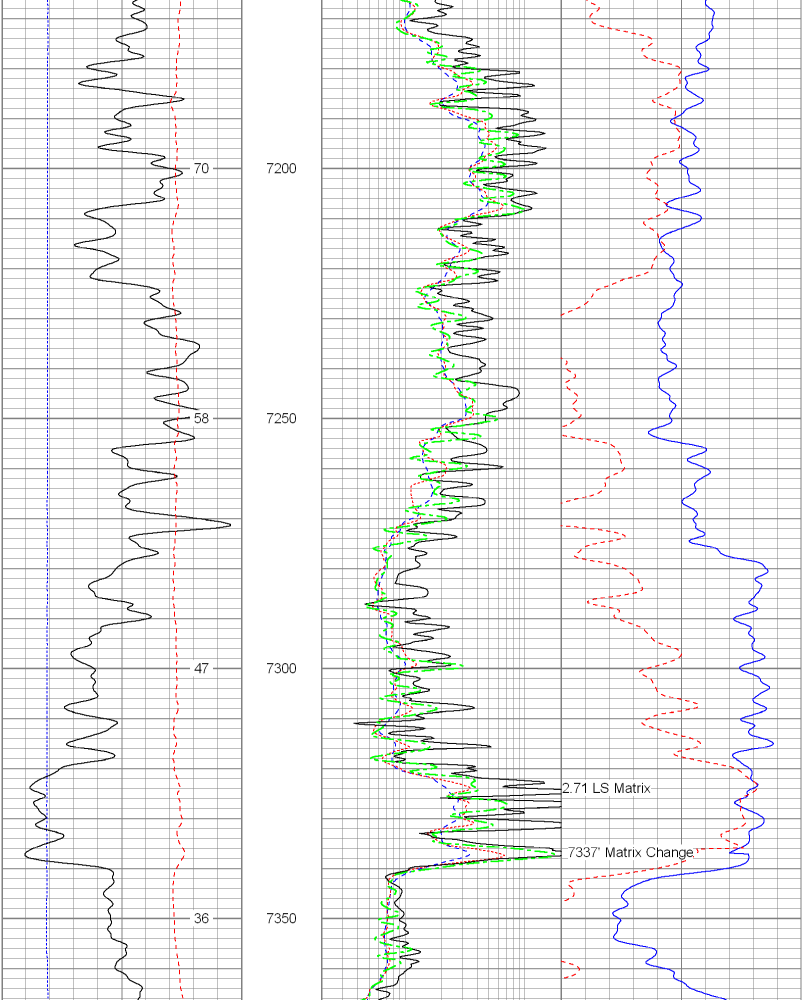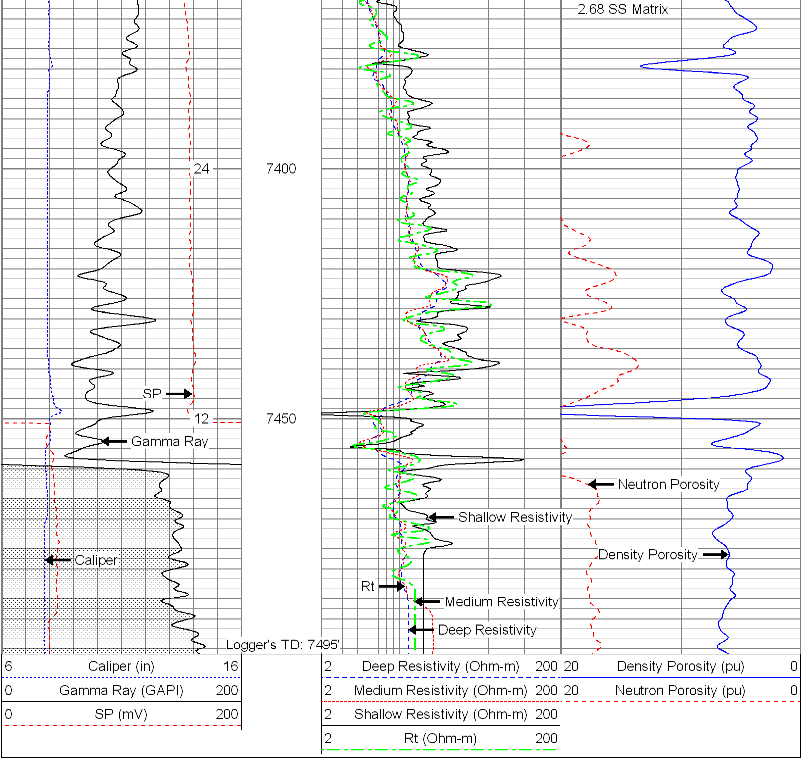
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0 Gamma Ray (GAPI) 200
0 SP (mV) 200
2 Deep Resistivity (Ohm-m) 200
2 Medium Resistivity (Ohm-m) 200
2 Shallow Resistivity (Ohm-m) 200
2 Rt (Ohm-m) 200
20 Density Porosity (pu) 0
20 Neutron Porosity (pu) 0
152
6850
140
6900
128
6950