Pioneer Energy Services

HIGH RESOLUTION INDUCTION
COMPENSATED DENSITY
COMPENSATED NEUTRON

Company Sundance Energy Inc.
Well HFE 24-22
Field Wattenberg
County Weld
State Colorado

Company	Sundance Energy Inc.
Well	HFE 24-22
Field	Wattenberg
County	Weld
State	Colorado

Location: API # : 05123357100000

SHL: 1120' FSL & 845' FWL SW SW
BHL: 713' FSL & 1969' FWL SE SW
Sec 22, Twp 4N, Rge 68W
SEC TWP RGE

Other Services
None

Permanent Datum	GL	Elevation	4920
Log Measured From	KB		
Drilling Measured From	KB		

Elevation
K.B. 4936
D.F. 4935
G.L. 4920

Date	September 30, 2012		
Run Number	1		
Depth Driller	7547		
Depth Logger	7545		
Bottom Logged Interval	7545		
Top Log Interval	Casing		
Casing Driller	593		
Casing Logger	593		
Bit Size	7-7/8"		
Type Fluid in Hole	Chem Gel		
Density / Viscosity	9.5 / 55		
pH / Fluid Loss	8.0 / 10.4		
Source of Sample	Flowline		
Rm @ Meas. Temp	2.93 @ 68 F		
Rmf @ Meas. Temp	1.99 @ 68 F		
Rmc @ Meas. Temp	3.52 @ 68 F		
Source of Rmf / Rmc	Measure / Calc		
Rm @ BHT	0.96 @ 205 F		
Time Circulation Stopped	0600		
Time Logger on Bottom	1215		
Maximum Recorded Temperature	205 F		
Equipment Number	49		
Location	Brighton, CO		
Recorded By	Matt Gill		
Witnessed By	Gene Hudson		

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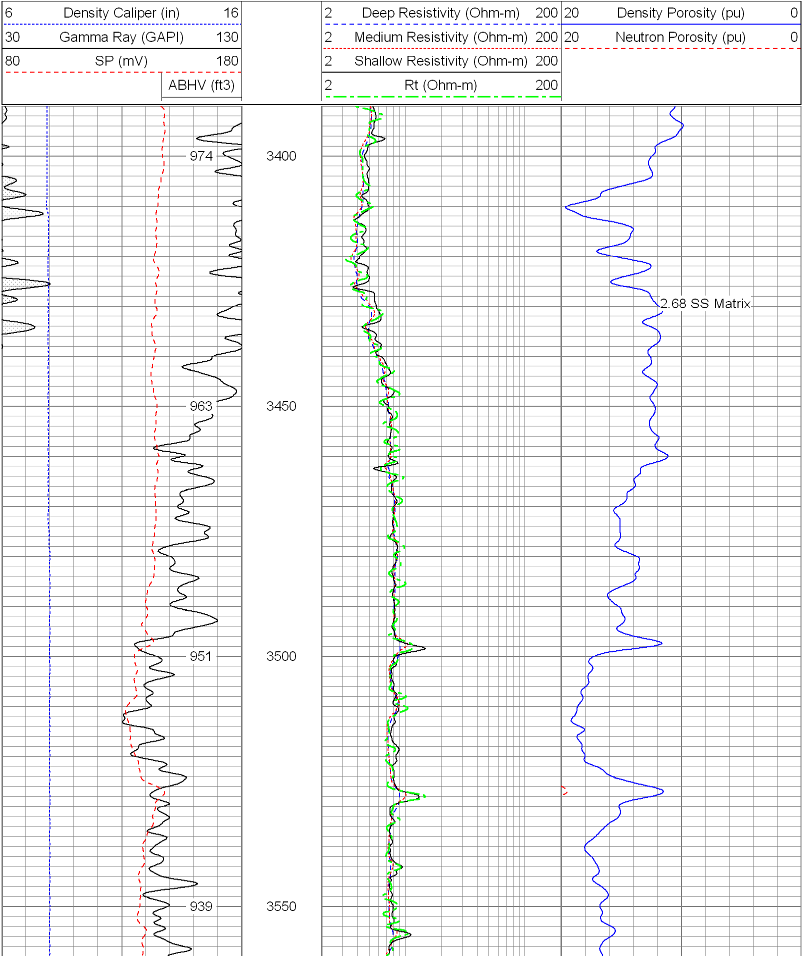
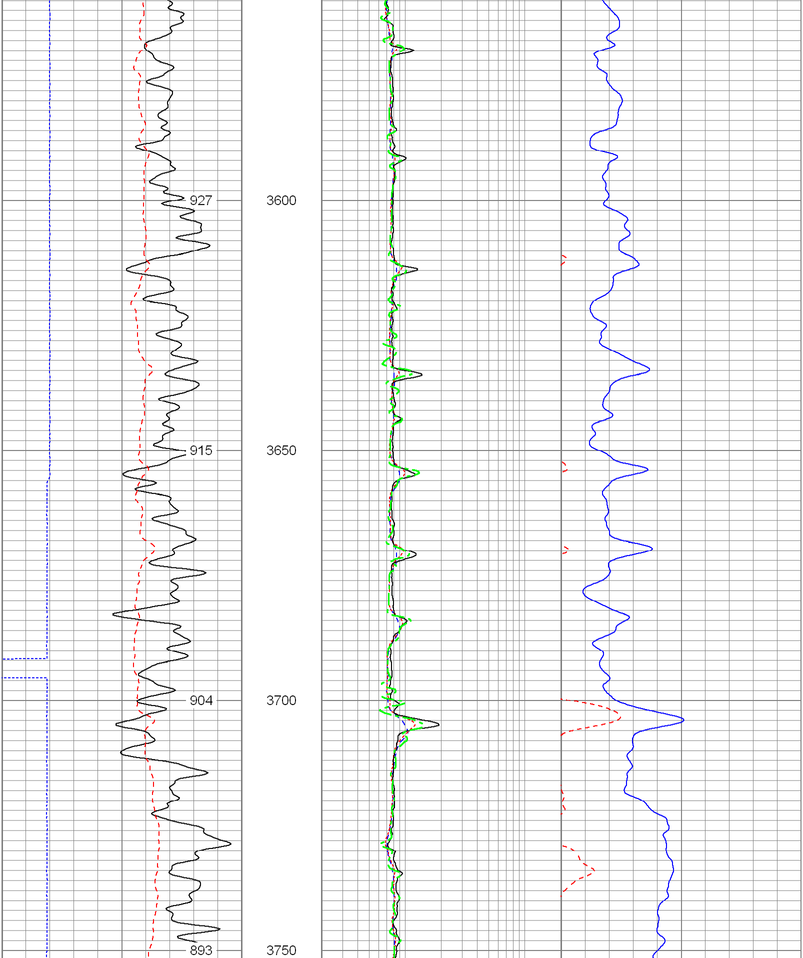
All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees.

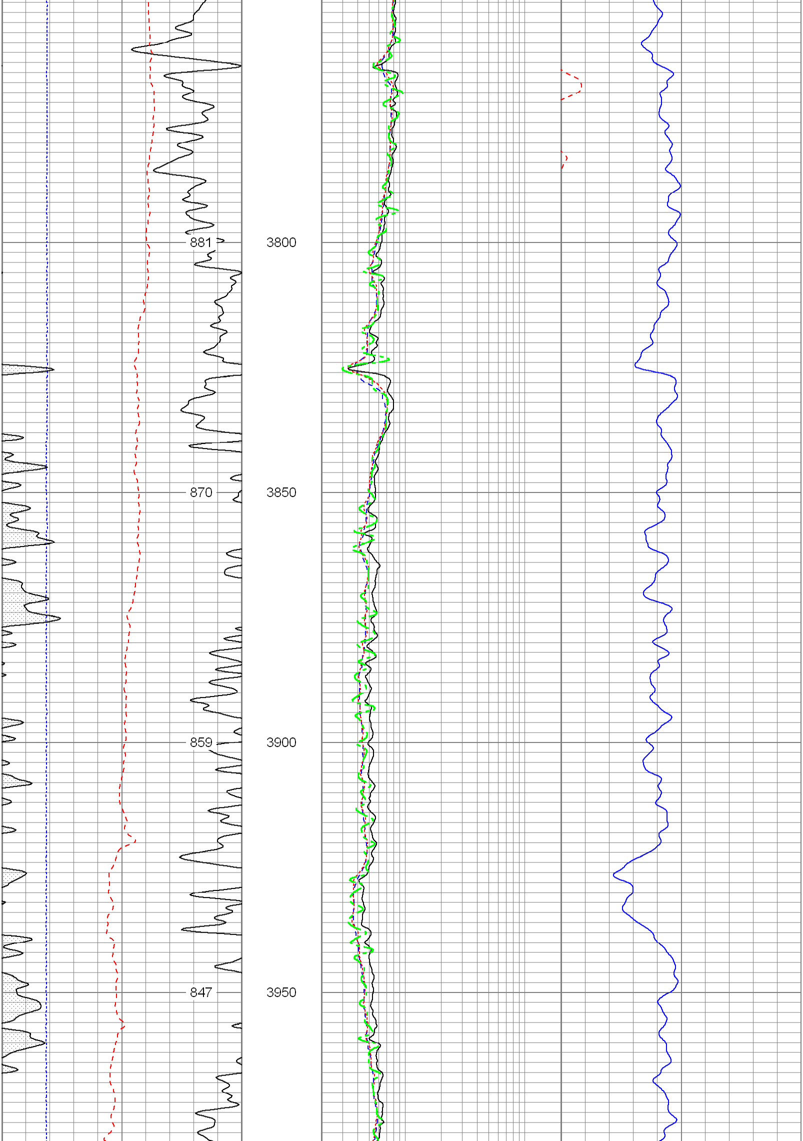
Comments

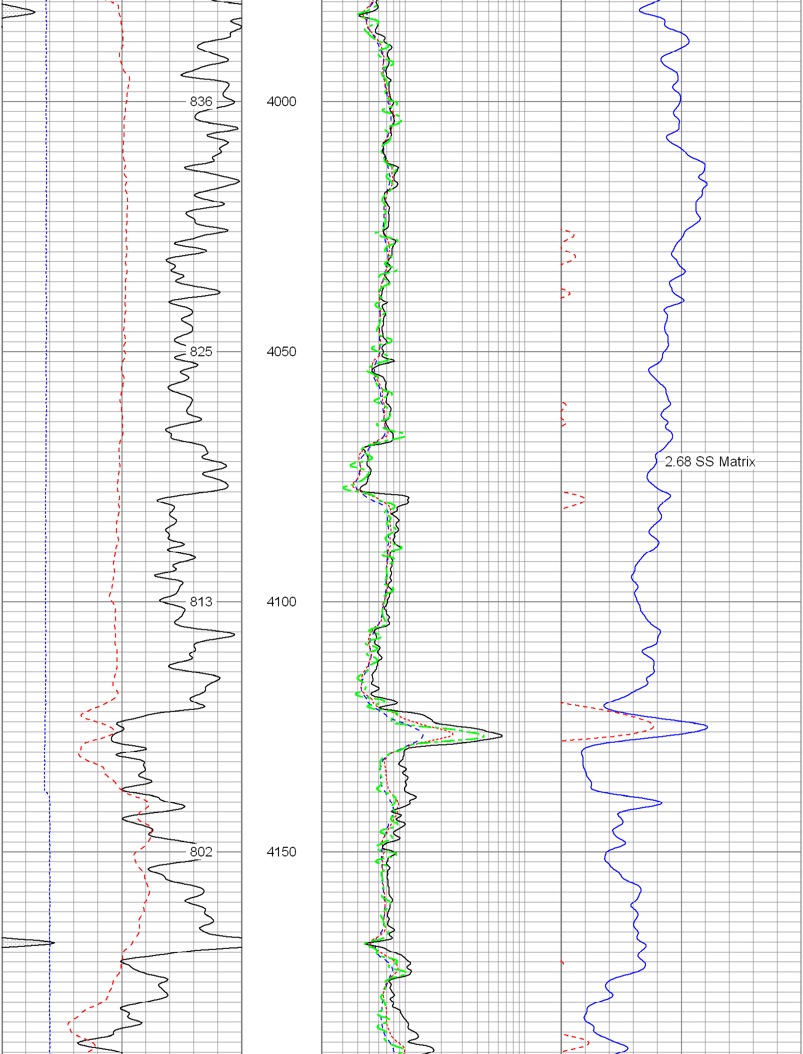
Annular volume calculated for 4.5" casing
Ensign Drilling Rig 55
Thank you for using Pioneer Energy Services.
API #: 05-123-35710-00

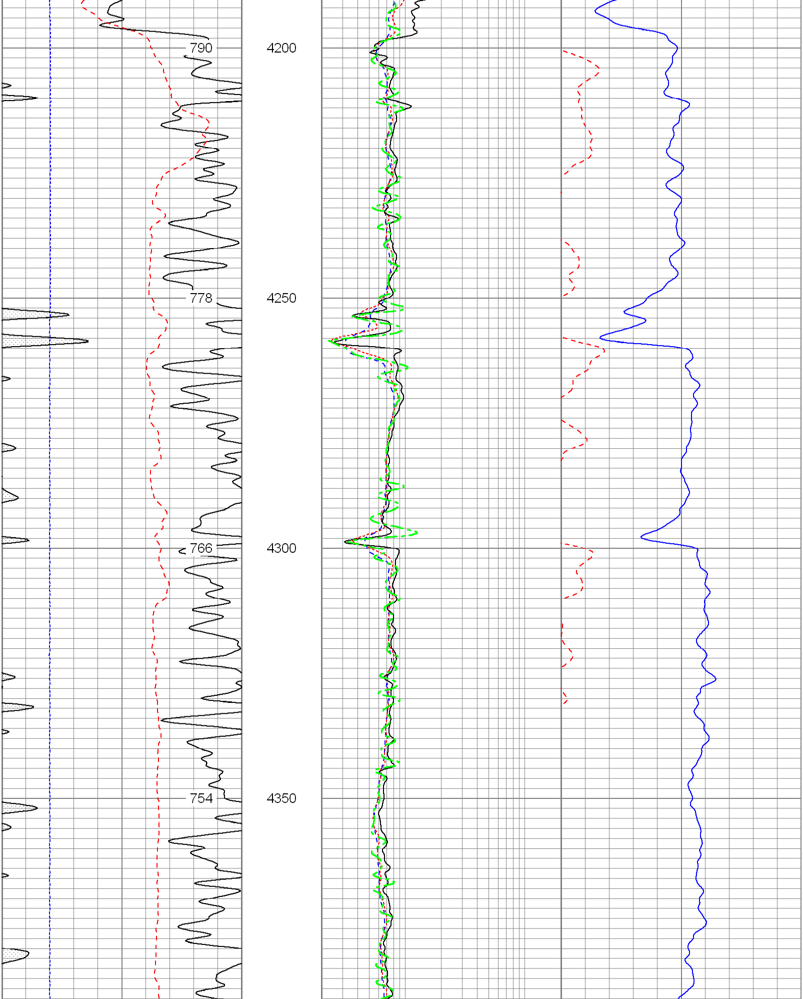
Database File:	13107.db
Dataset Pathname:	final
Presentation Format:	pdc1
Dataset Creation:	Sun Sep 30 12:08:39 2012
Charted by:	Depth in Feet scaled 1:240

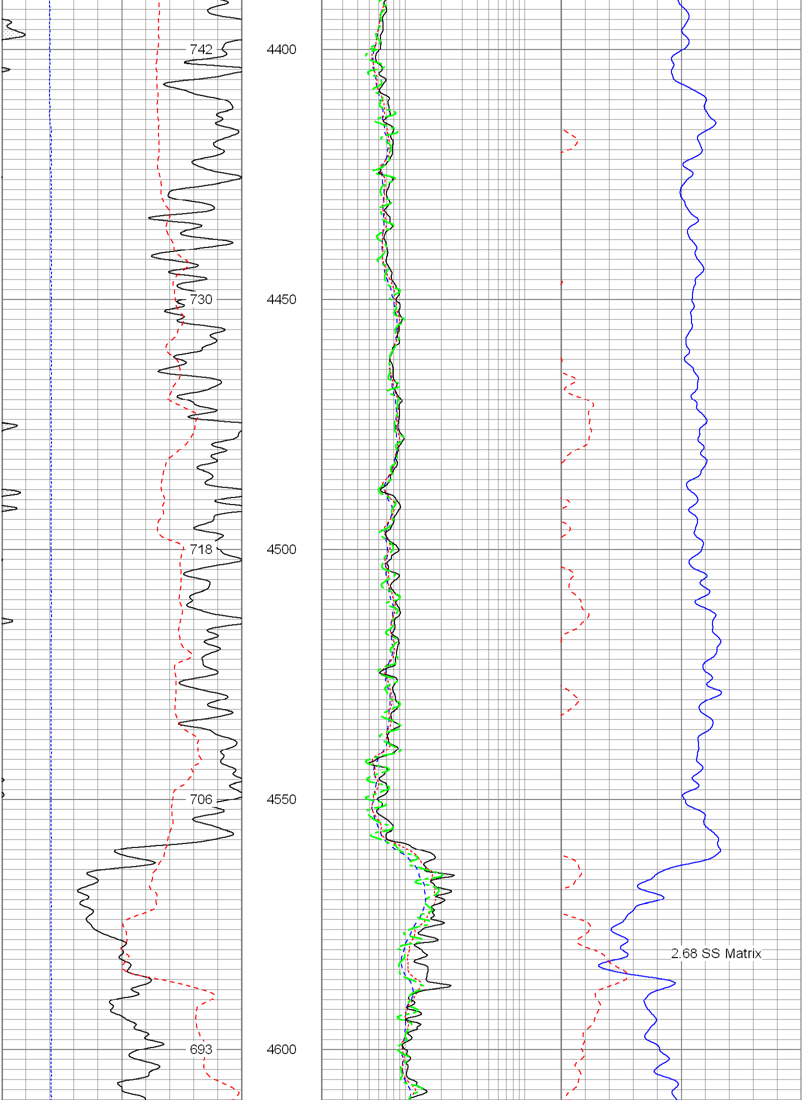


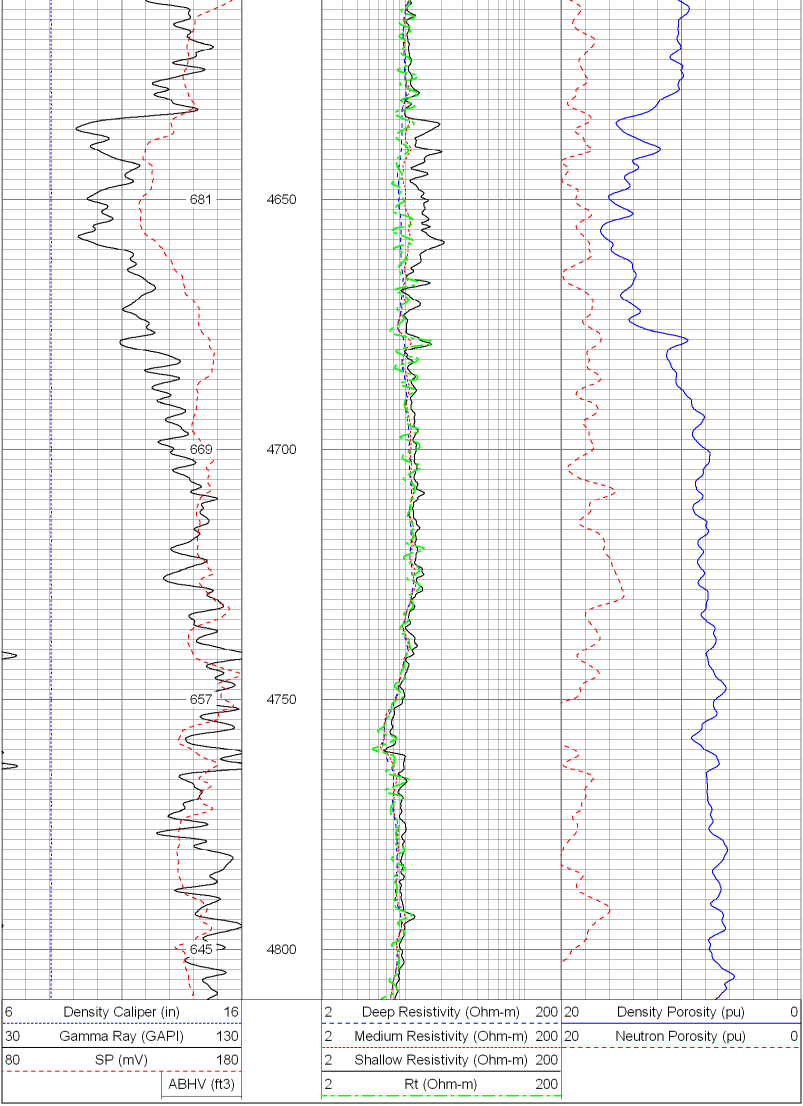












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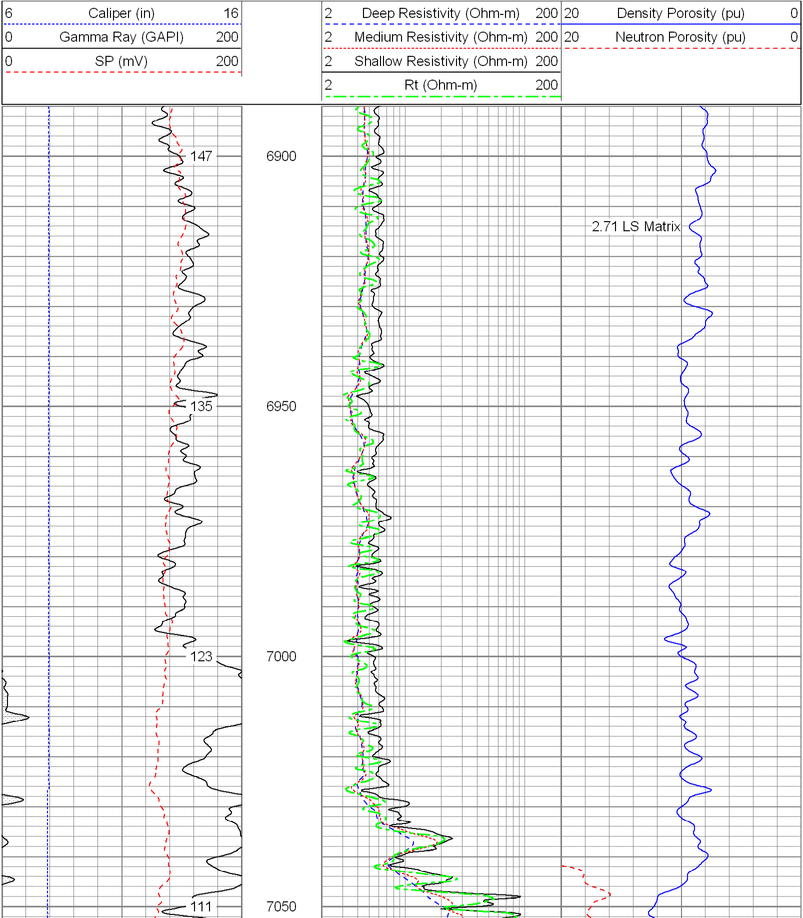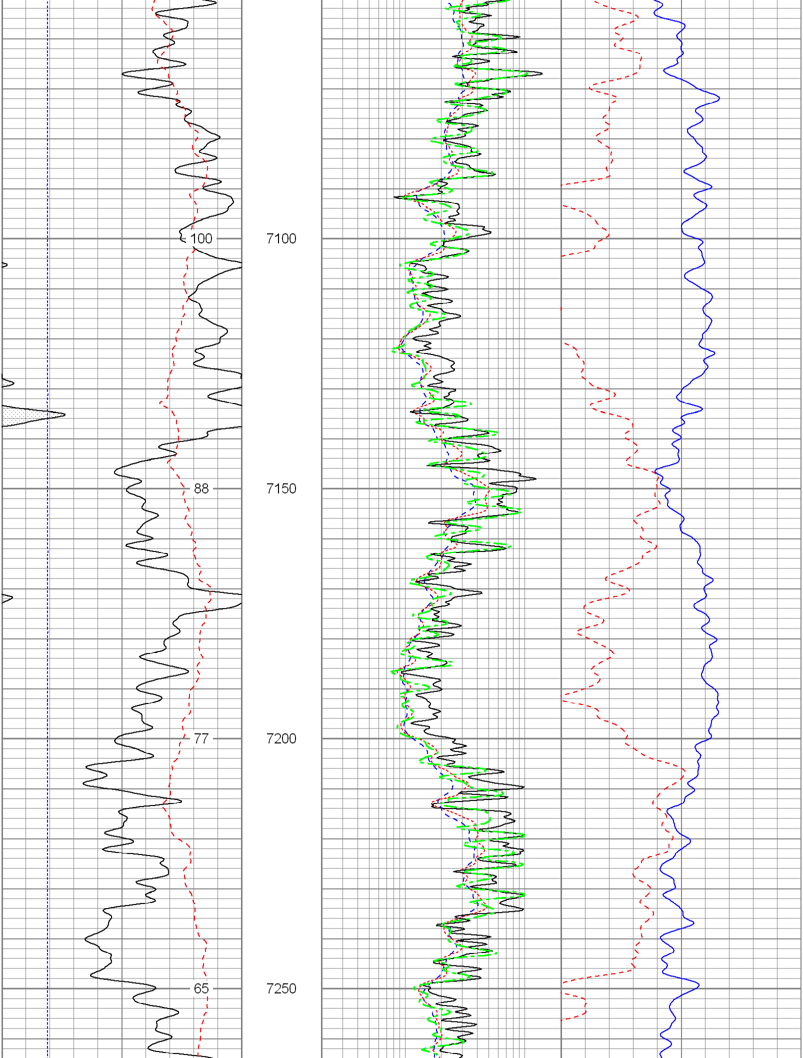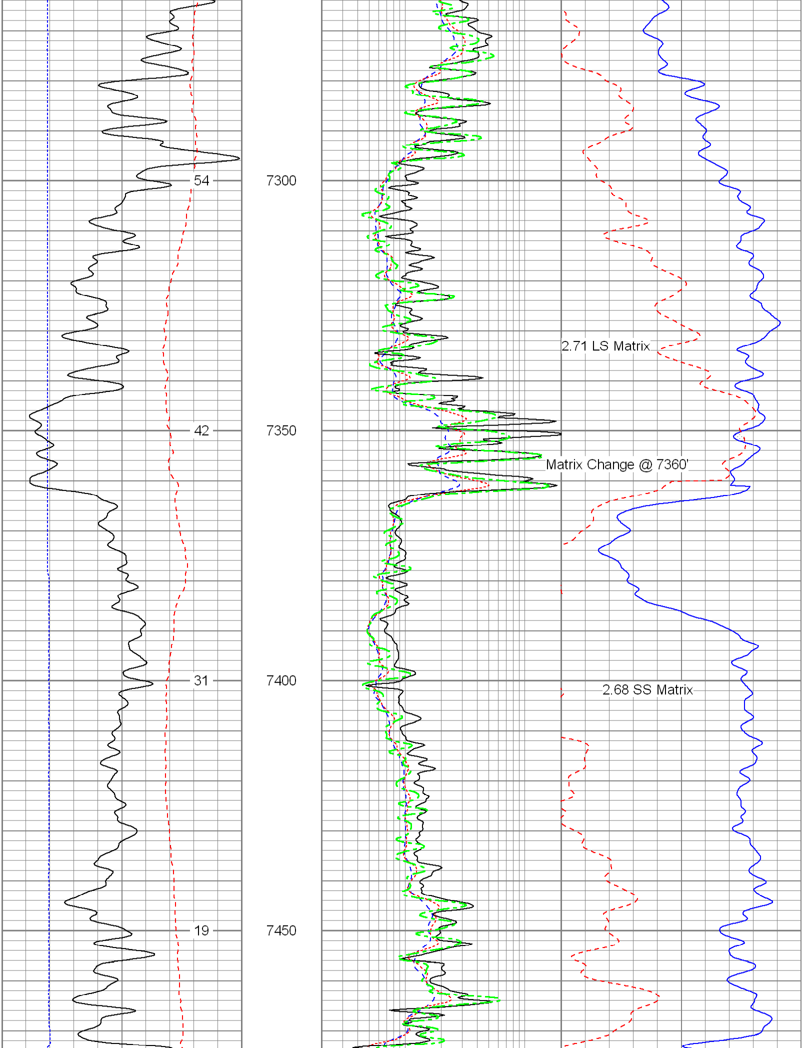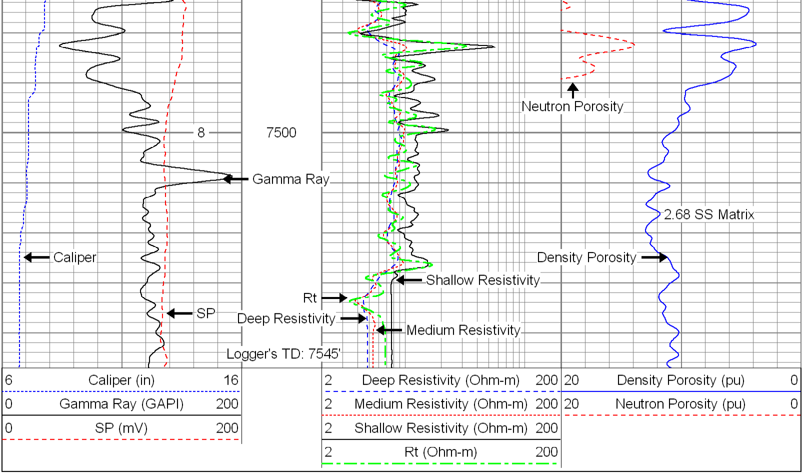
6 Caliper (in) 16
0 Gamma Ray (GAPI) 200
0 SP (mV) 200
2 Deep Resistivity (Ohm-m) 200
2 Medium Resistivity (Ohm-m) 200
2 Shallow Resistivity (Ohm-m) 200
2 Rt (Ohm-m) 200
20 Density Porosity (pu) 0
20 Neutron Porosity (pu) 0
147
6900
2.71 LS Matrix
135
6950
123
7000
111
7050