PHOENIX SURVEYS, INC.

COMPENSATED DENSITY
COMPENSATED NEUTRON
DUAL INDUCTION

Company	St. James Energy Operating, Inc.
Well	Larson Farms 4-24
Field	Wattenberg
County	Weld
State/Province	Colorado

Company
Well
Field
County
State/Prv

Location
SHL: 2235' FSL & 2470' FWL NESW
BHL: 1987' FSL & 648' FEL NESE
Sec 24, Twp 6N, Rge 64W

Other Services
None

Elevation
K.B. 4657
D.F. 4656
G.L. 4643

Permanent Datum	GL	Elevation	4643
Log Measured From	KB		
Drilling Measured From	KB		

Date	September 17, 2011		
Run Number	1		
Depth Driller	7491		
Depth Logger	7481		
Bottom Logged Interval	7481		
Top Log Interval	Casing		
Casing Driller	773		
Casing Logger	773		
Bit Size	7-7/8"		
Type Fluid in Hole	Chem Gel		
Density / Viscosity	9.3 / 50		
pH / Fluid Loss	8.0 / 8.8		
Source of Sample	Flowline		
Rm @ Meas. Temp	3.63 @ 78° F		
Rmf @ Meas. Temp	2.90 @ 78° F		
Rmc @ Meas. Temp	4.36 @ 78° F		
Source of Rmf / Rmc	Measure / Calc		
Rm @ BHT	1.14 @ 208° F		
Time Circulation Stopped	0600		
Time Logger on Bottom	1315		
Maximum Recorded Temperature	2088° F		
Equipment Number	4800		
Location	Brighton, CO		
Recorded By	Matt Gill		
Witnessed By	Kent Moore	Mark Scanniello	

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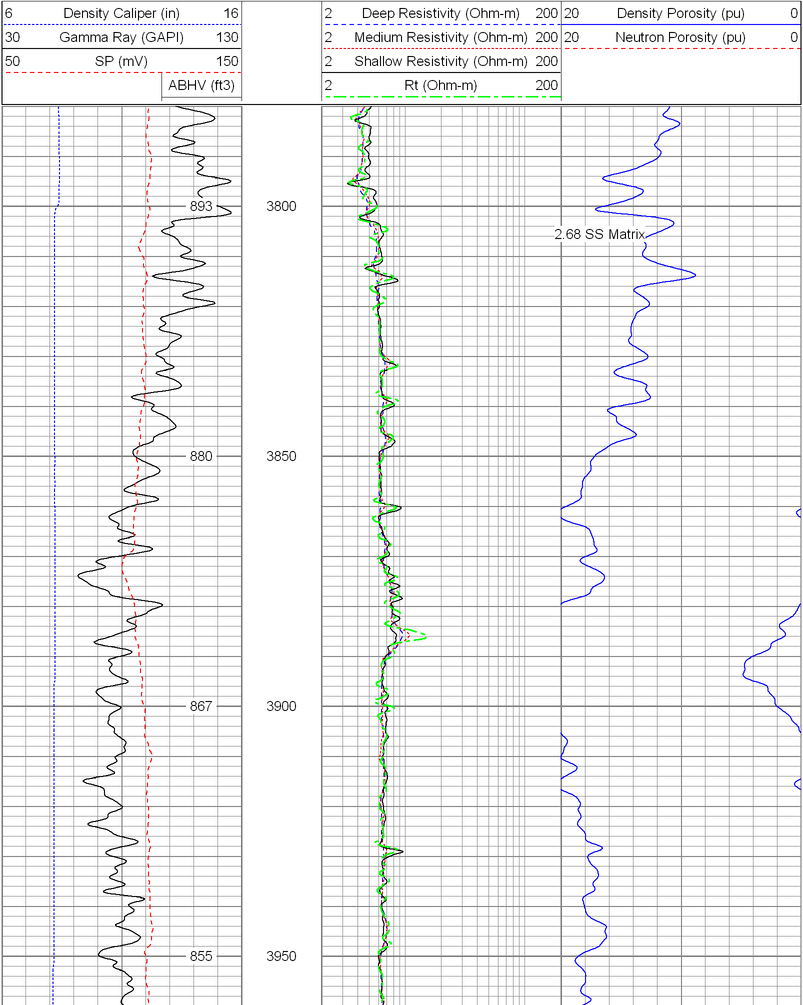
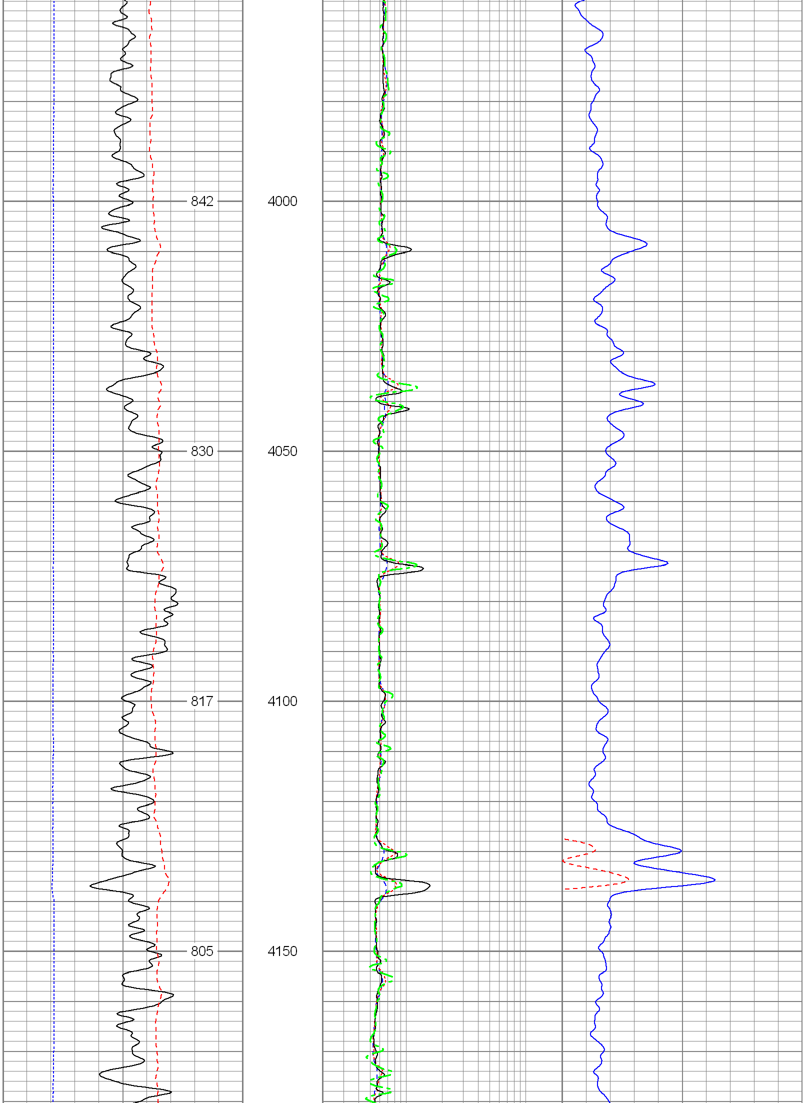
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

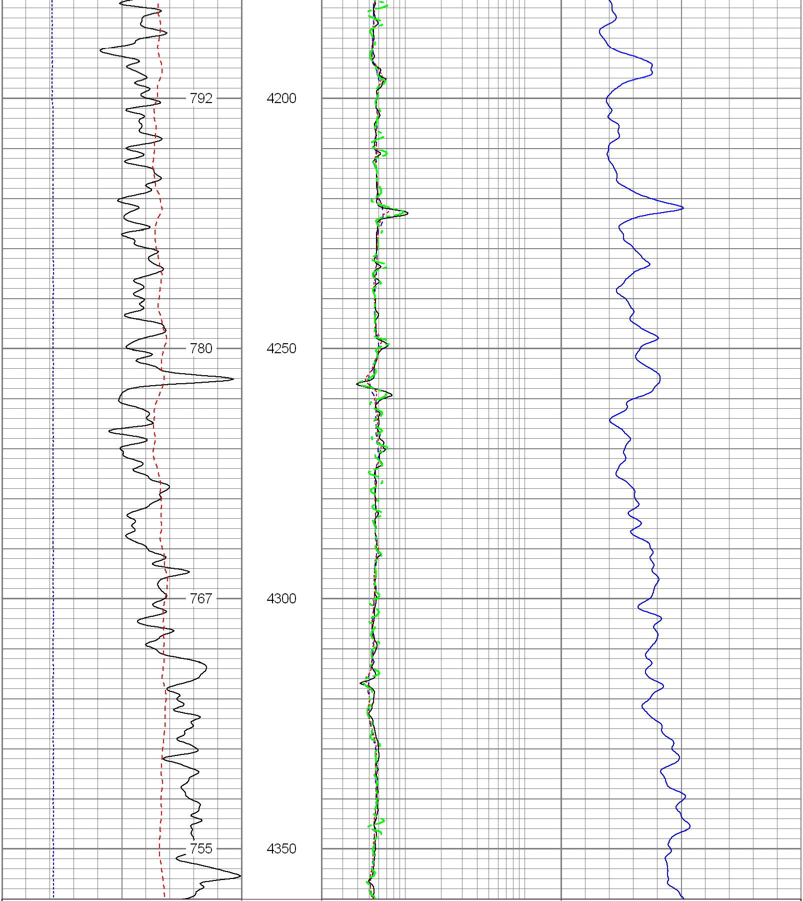
Comments

Annular volume calculated for 4.5" casing
Cade Rig 22
Thank you for using Phoenix Surveys.
API #: 05-123-34148-00
No Repeat Due to Hole Conditions

Database File: 12055.db
Dataset Pathname: final
Presentation Format: pdc1
Dataset Creation: Sat Sep 17 13:44:17 2011
Charted by: Depth in Feet scaled 1:240







6 Density Caliper (in) 16	2 Deep Resistivity (Ohm-m) 200	20 Density Porosity (pu) 0
30 Gamma Ray (GAPI) 130	2 Medium Resistivity (Ohm-m) 200	20 Neutron Porosity (pu) 0
50 SP (mV) 150	2 Shallow Resistivity (Ohm-m) 200	
ABHV (ft3)	2 Rt (Ohm-m) 200	

Database File:	12055.db
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30 Gamma Ray (GAPI) 130

50 SP (mV) 150

ABHV (ft3)

2 Deep Resistivity (Ohm-m) 200

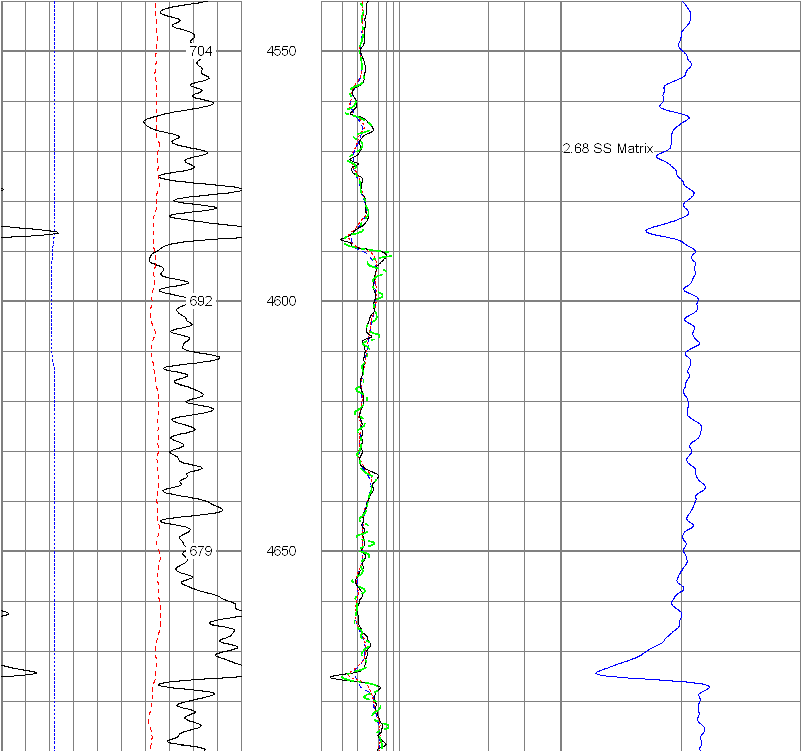
2 Medium Resistivity (Ohm-m) 200

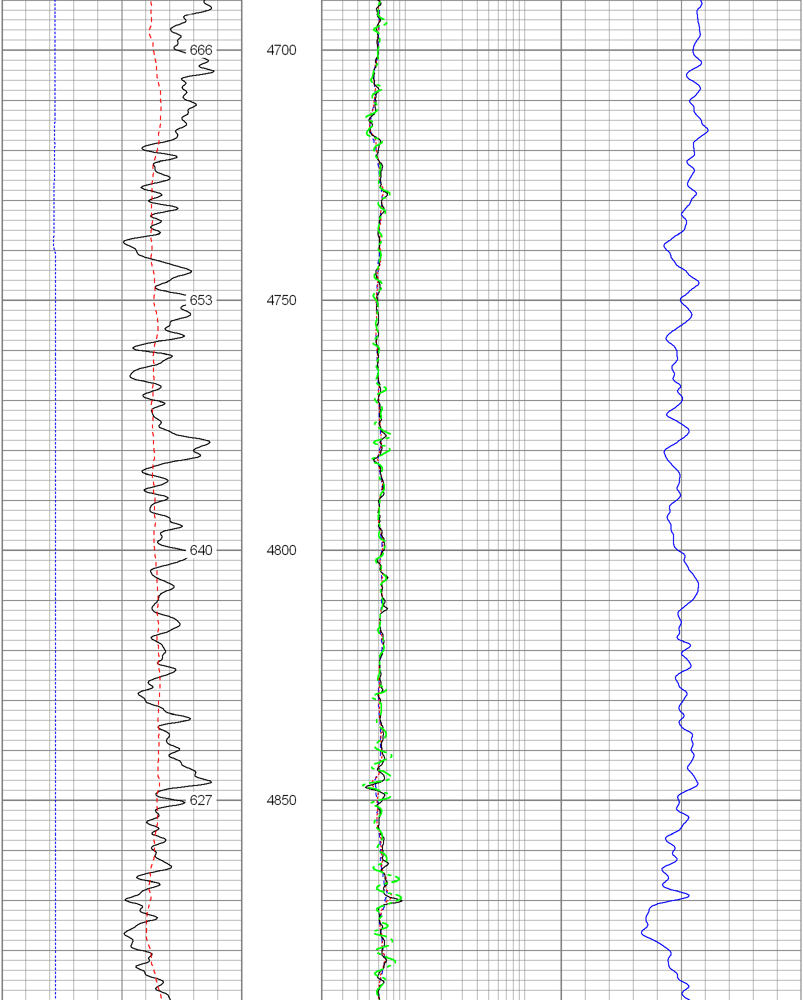
2 Shallow Resistivity (Ohm-m) 200

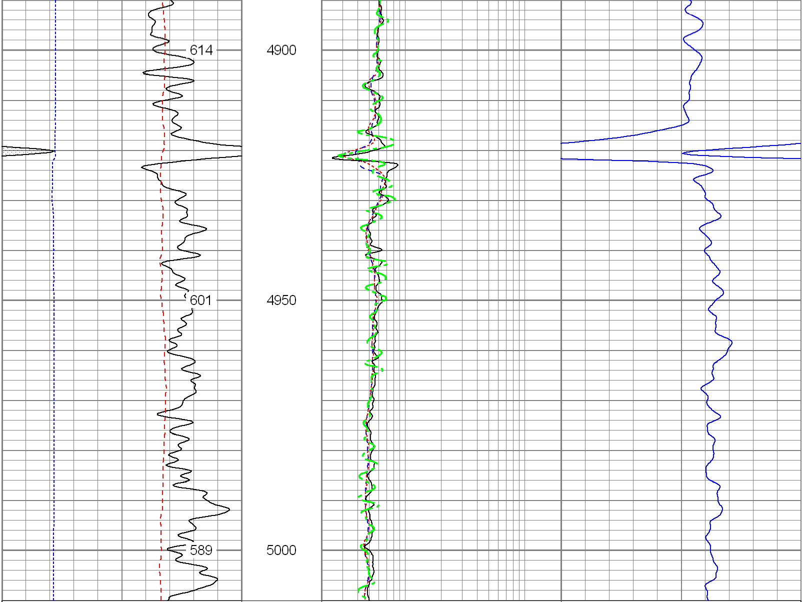
2 Rt (Ohm-m) 200

20 Density Porosity (pu) 0

20 Neutron Porosity (pu) 0







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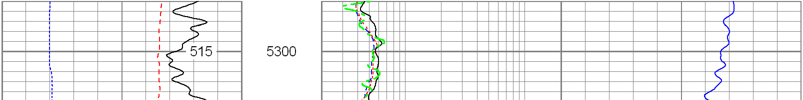

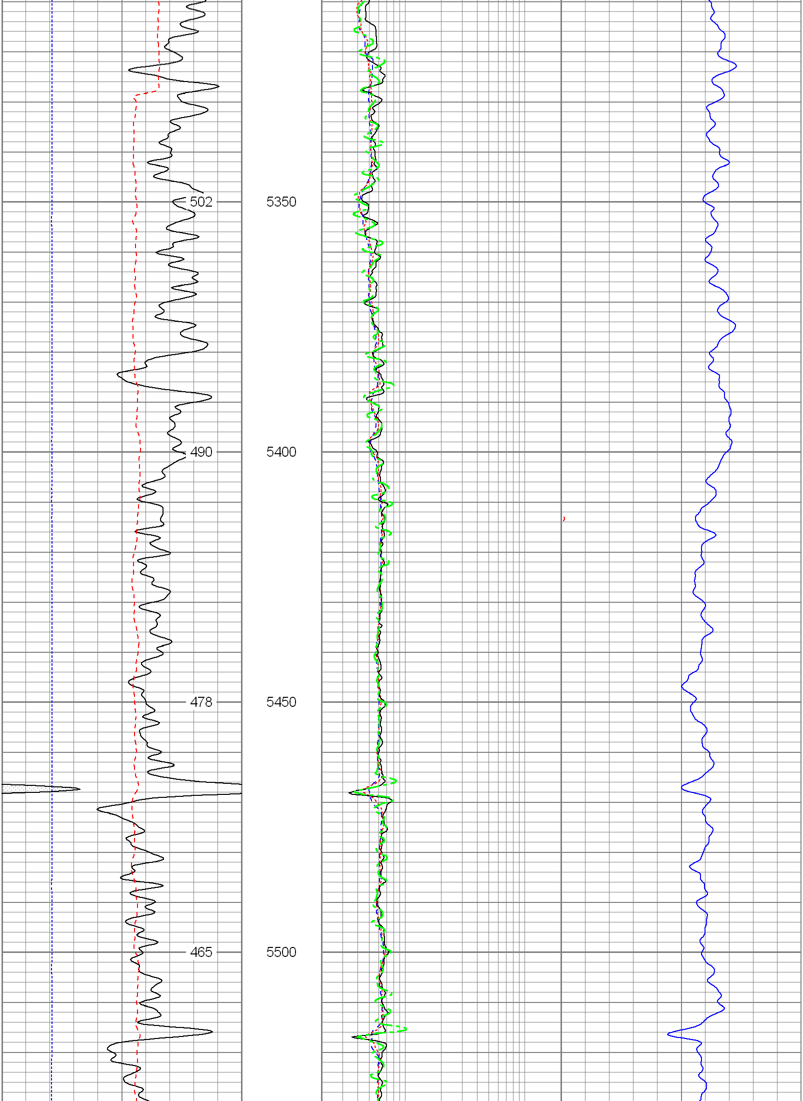

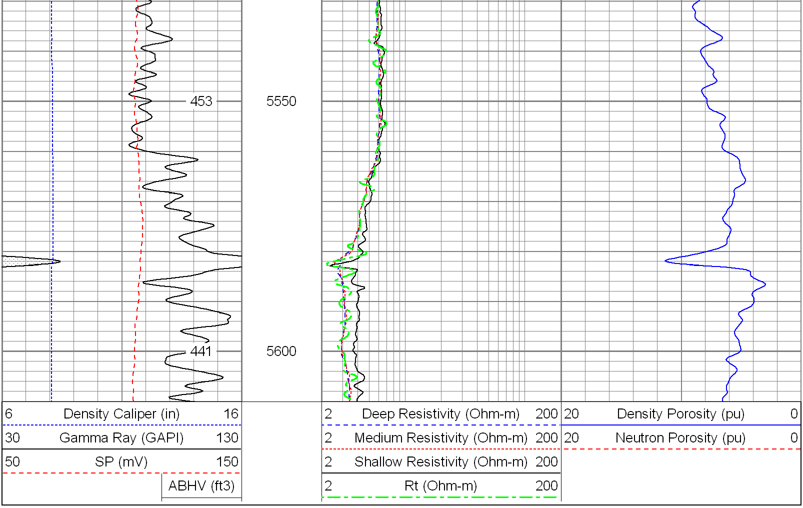

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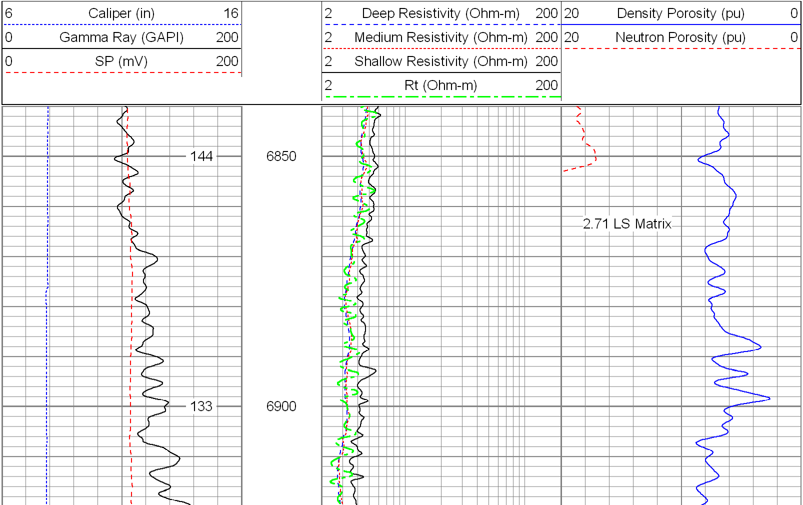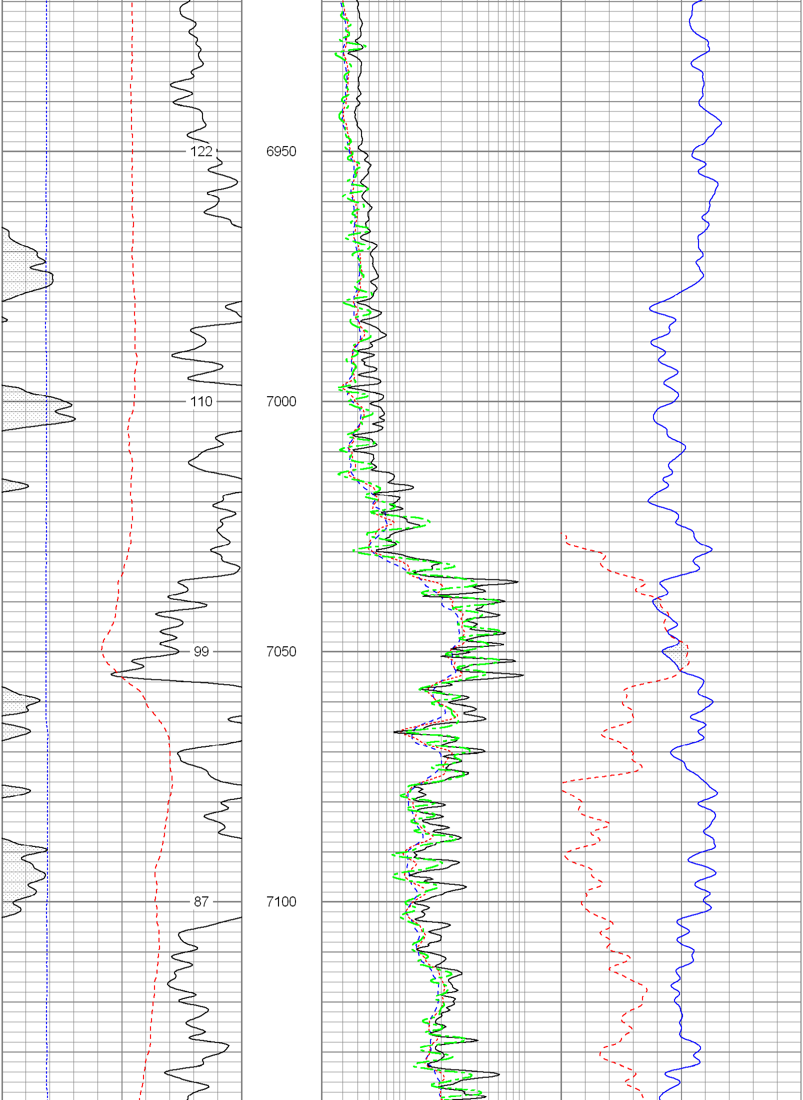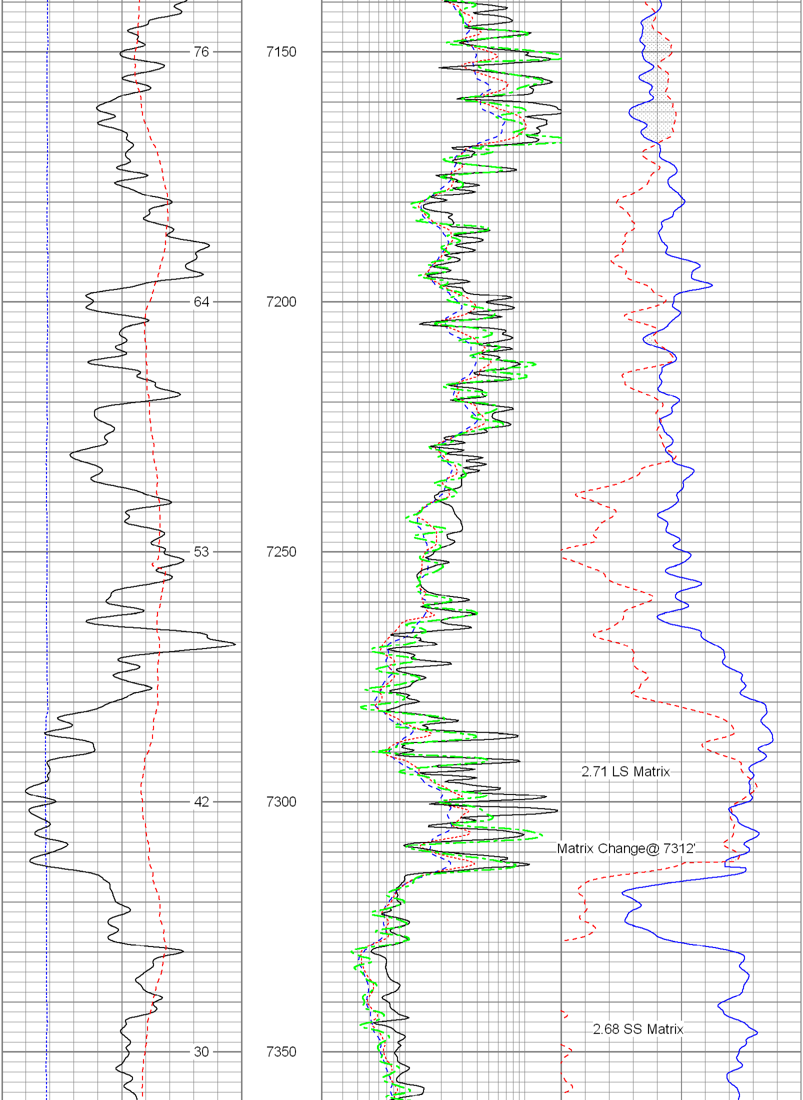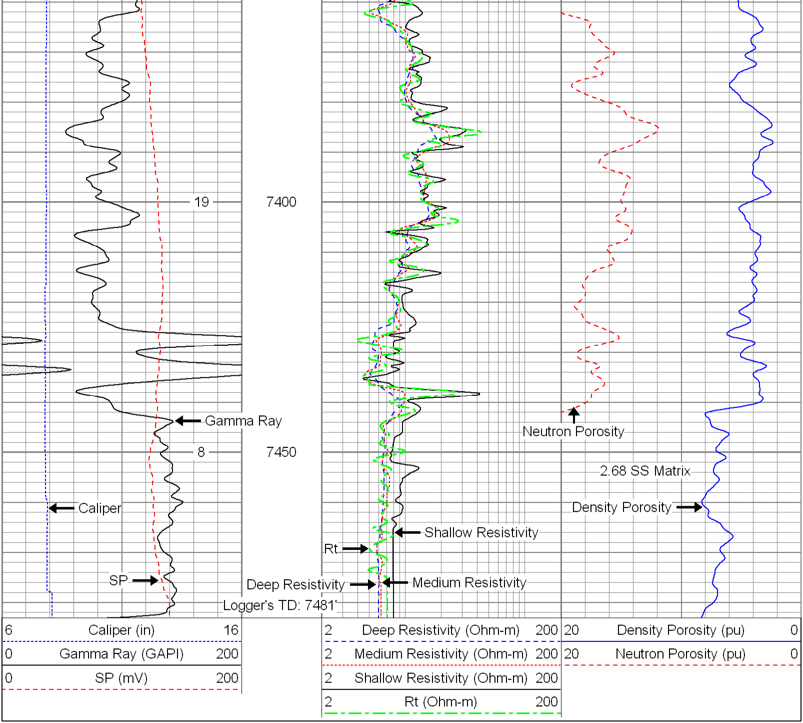
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0 Gamma Ray (GAPI) 200
0 SP (mV) 200
2 Deep Resistivity (Ohm-m) 200
2 Medium Resistivity (Ohm-m) 200
2 Shallow Resistivity (Ohm-m) 200
2 Rt (Ohm-m) 200
20 Density Porosity (pu) 0
20 Neutron Porosity (pu) 0
144
6850
2.71 LS Matrix
133
6900