PIONEER

Pioneer Energy Services

HIGH RESOLUTION INDUCTION
COMPENSATED DENSITY
COMPENSATED NEUTRON

Company	Sundance Energy Inc.
Well	MLD 12-22
Field	Wattenberg
County	Weld
State	Colorado

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Location: API # : 05123361010000

SHL: 854' FNL & 1305' FWL NWNW
BHL: 1939' FNL & 663' FWL SWNW

SEC 22 TWP 4N RGE 68W

Permanent Datum	GL	Elevation	4877
Log Measured From	KB		
Drilling Measured From	KB		

Other Services

None

Elevation

K.B. 4893
D.F. 4892
G.L. 4877

Date	November 23, 2012		
Run Number	1		
Depth Driller	7185		
Depth Logger	7183		
Bottom Logged Interval	7183		
Top Log Interval	Casing		
Casing Driller	581		
Casing Logger	581		
Bit Size	7-7/8"		
Type Fluid in Hole	Chem Gel		
Density / Viscosity	9.5 / 65		
pH / Fluid Loss	7.5 / 10.0		
Source of Sample	Flowline		
Rm @ Meas. Temp	3.20 @ 65 F		
Rmf @ Meas. Temp	2.56 @ 65 F		
Rmc @ Meas. Temp	3.84 @ 65 F		
Source of Rmf / Rmc	Measure / Calc		
Rm @ BHT	1.01 @ 205 F		
Time Circulation Stopped	0300		
Time Logger on Bottom	0830		
Maximum Recorded Temperature	205 F		
Equipment Number	49		
Location	Brighton, CO		
Recorded By	Matt Gill		
Witnessed By	Gene Hudson		

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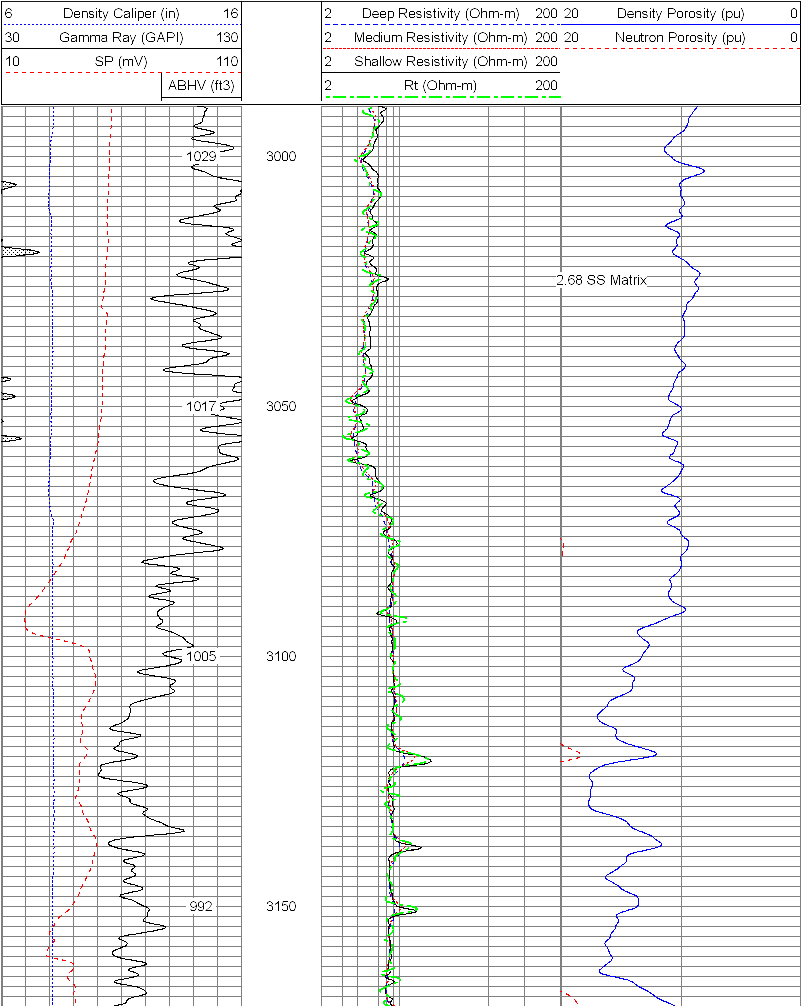
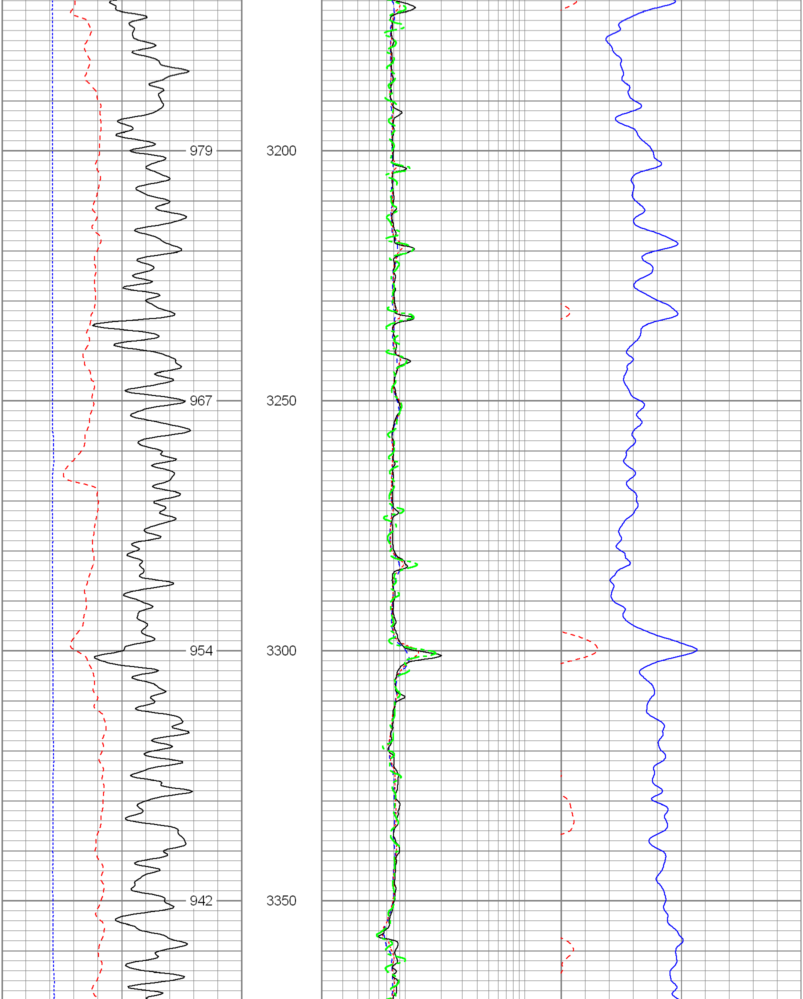
All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not be liable or responsible for any loss, costs, damages,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

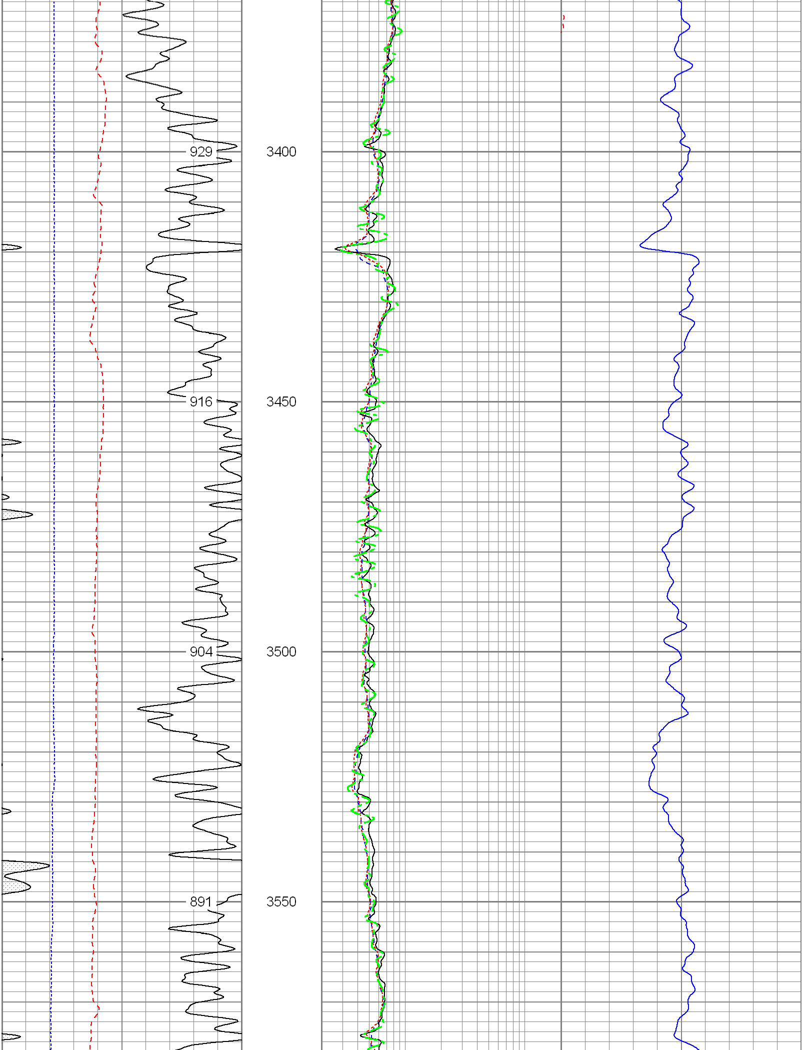
Comments

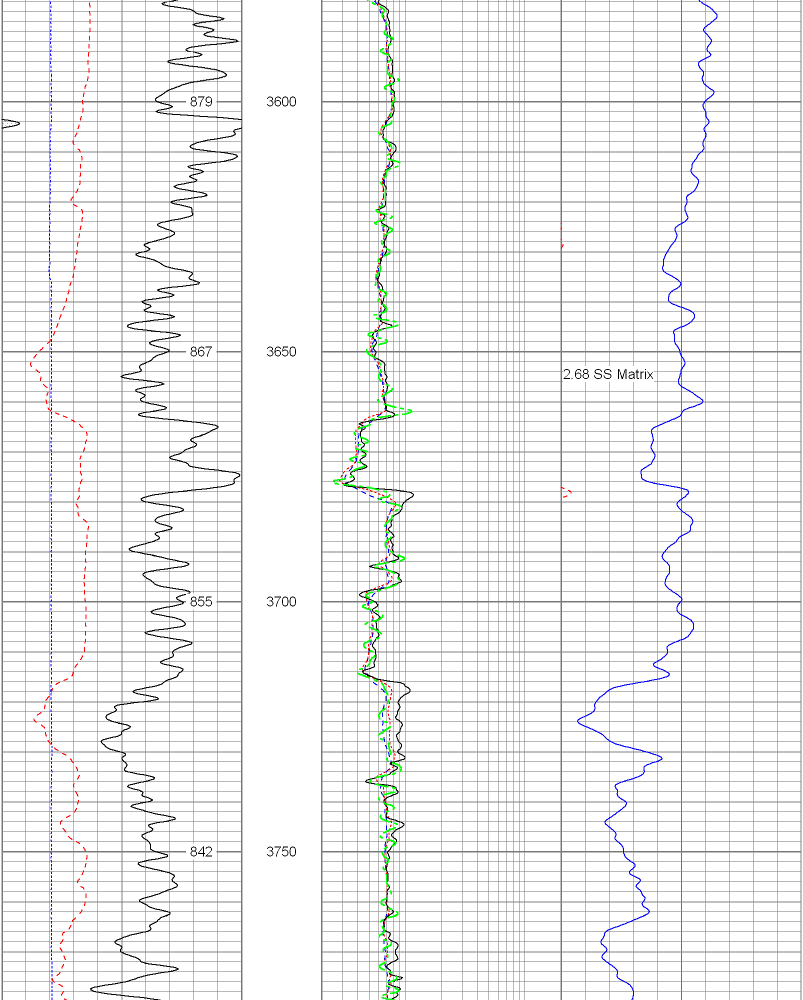
Annular volume calculated for 4.5" casing
Ensign Drilling Rig 55
Thank you for using Pioneer Energy Services.

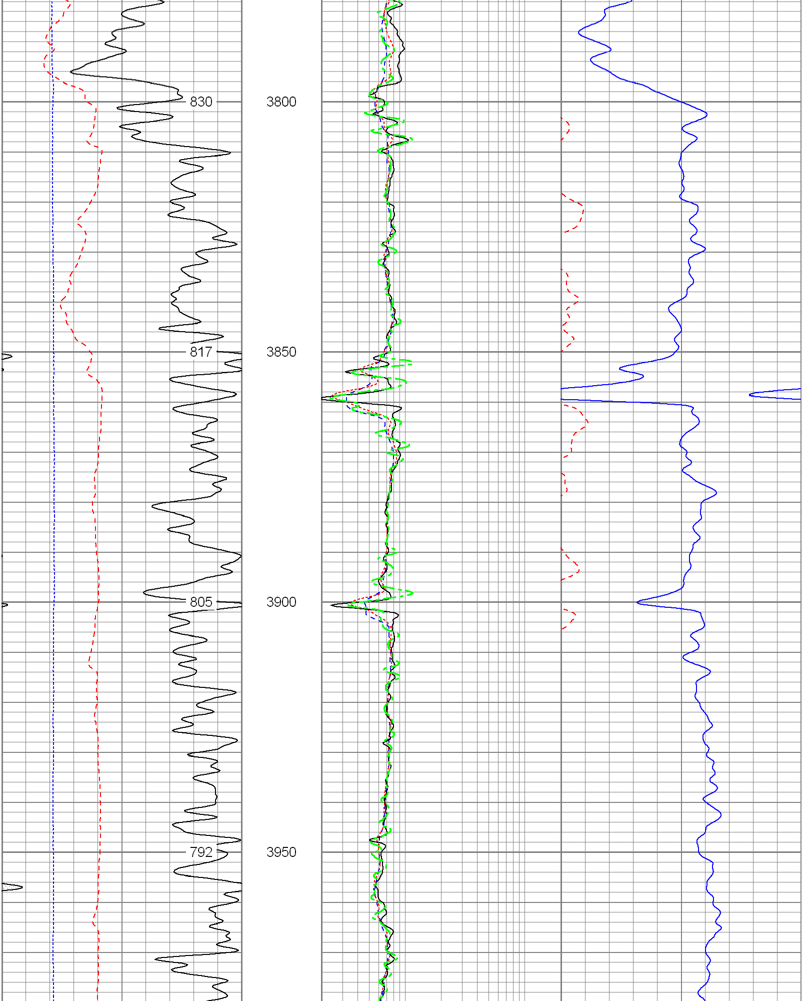
Database File: 13215.db
Dataset Pathname: final
Presentation Format: pdc1
Dataset Creation: Fri Nov 23 08:19:07 2012
Charted by: Depth in Feet scaled 1:240

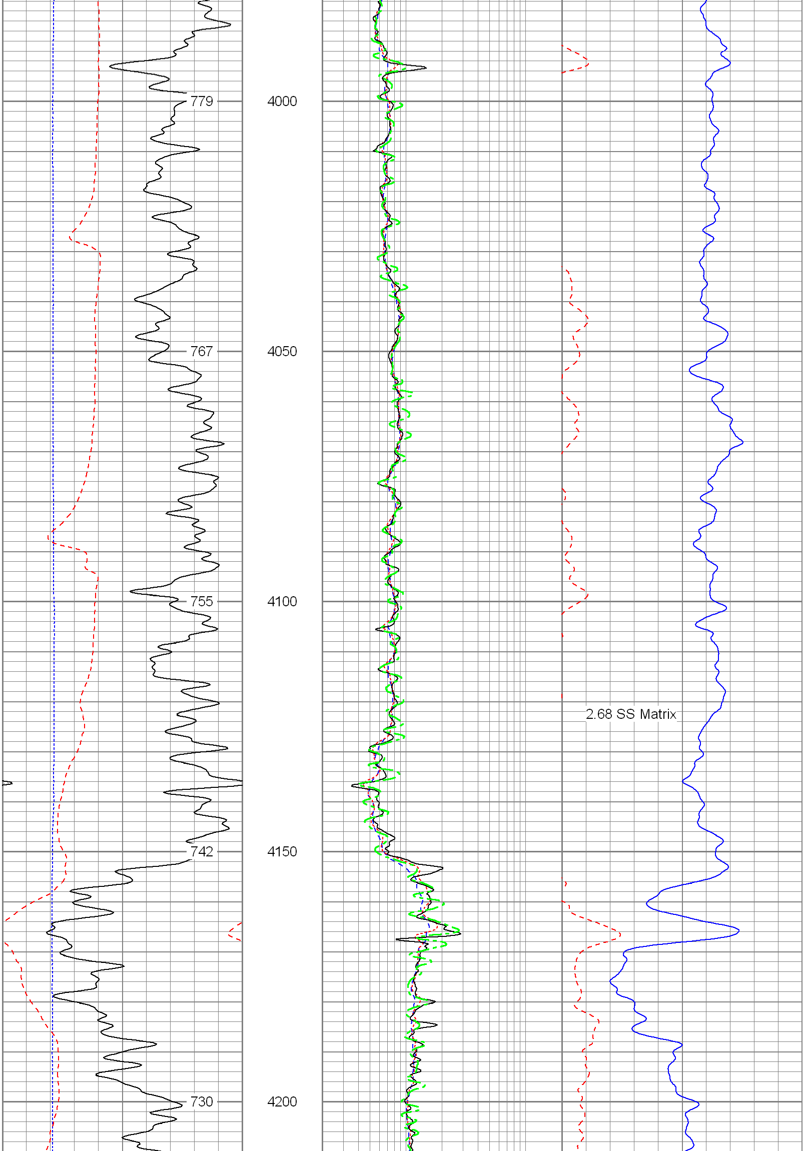


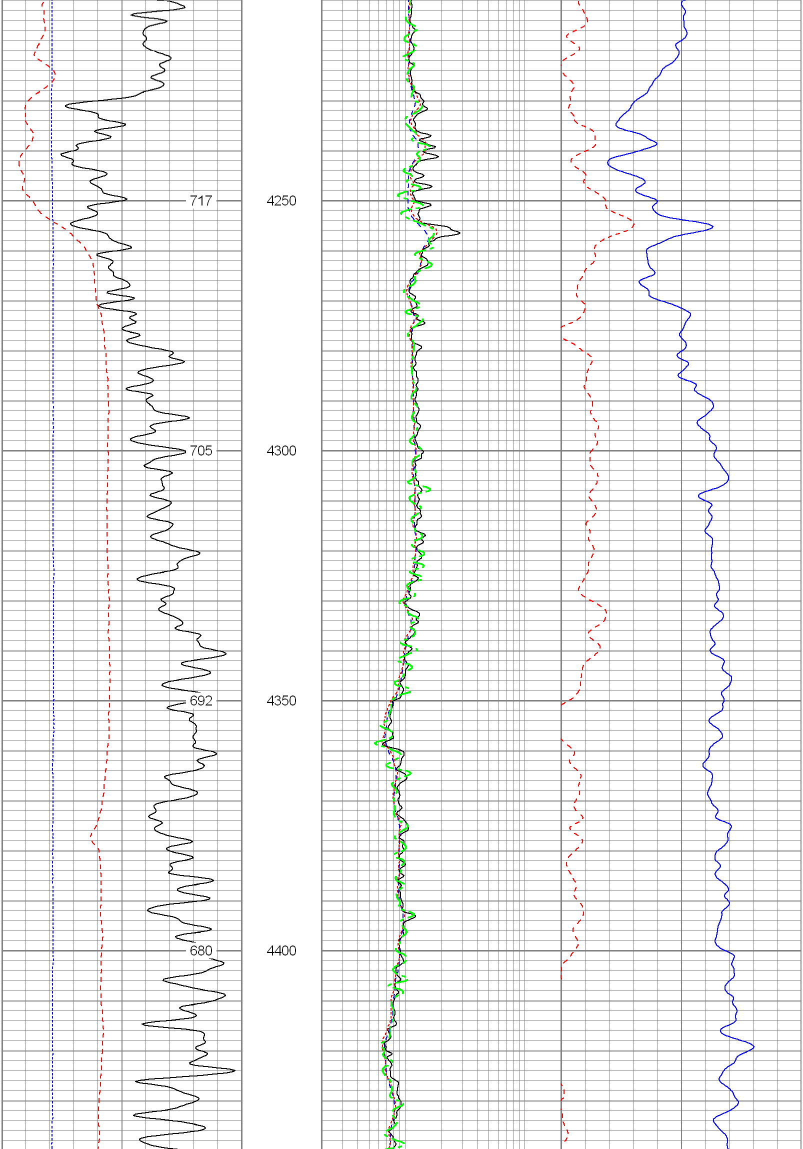


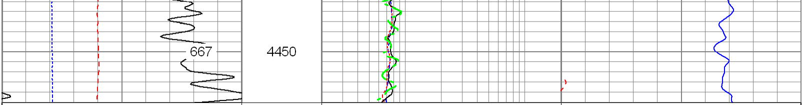












6 Density Caliper (in) 16
30 Gamma Ray (GAPI) 130
10 SP (mV) 110
ABHV (ft3)

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

Database File:	13215.db
Dataset Pathname:	final
Presentation Format:	pdc
Dataset Creation:	Fri Nov 23 08:19:07 2012
Charted by:	Depth in Feet scaled 1:240

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0 Gamma Ray (GAPI) 200
0 SP (mV) 200

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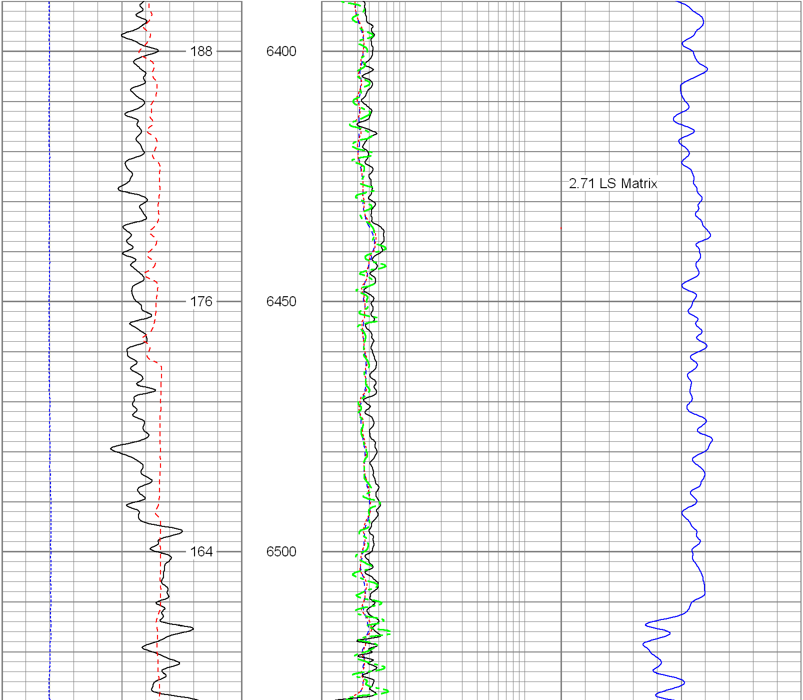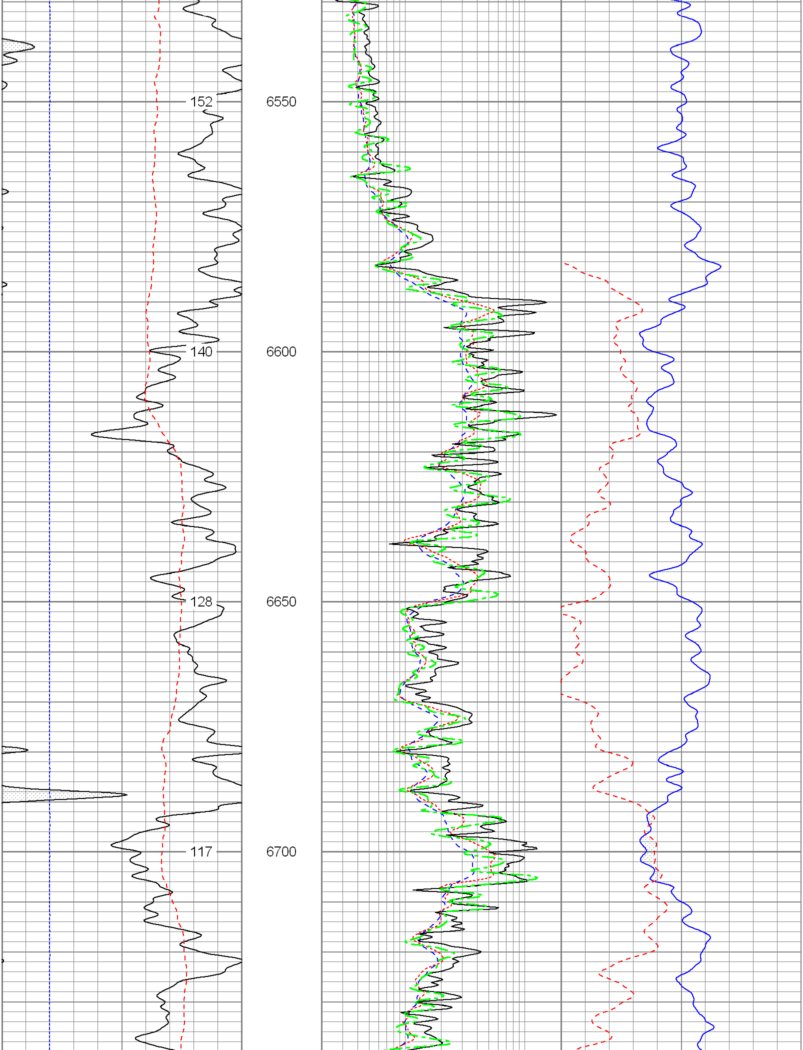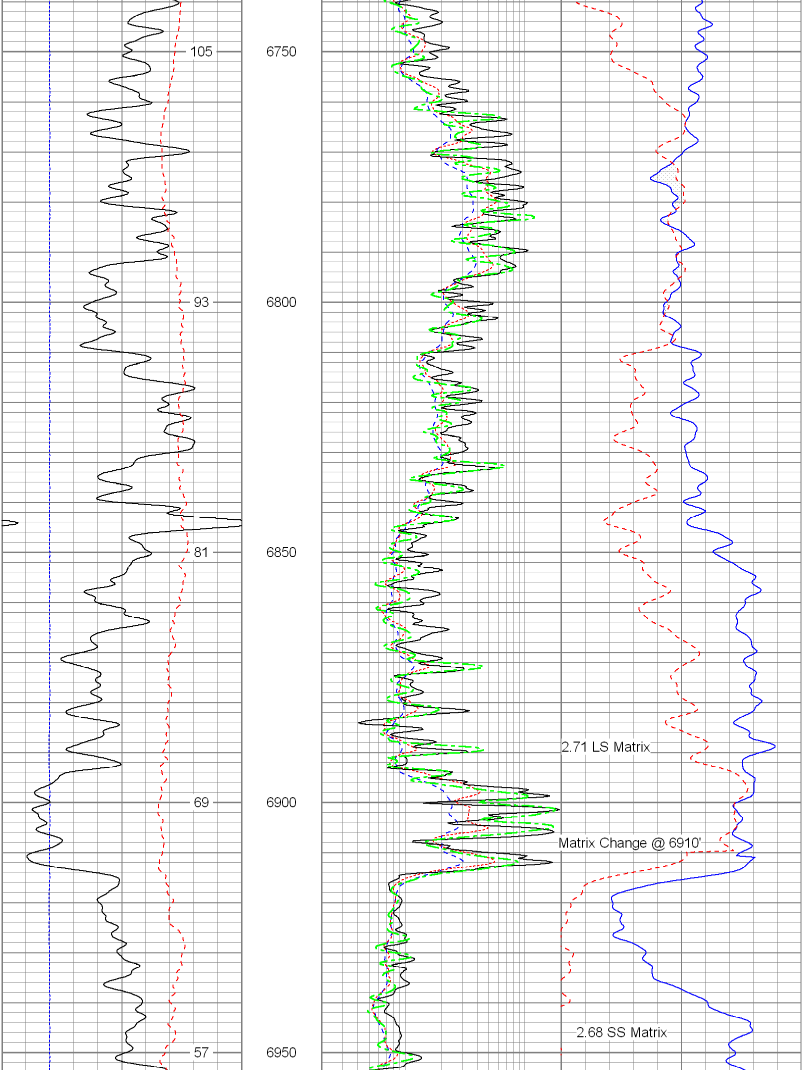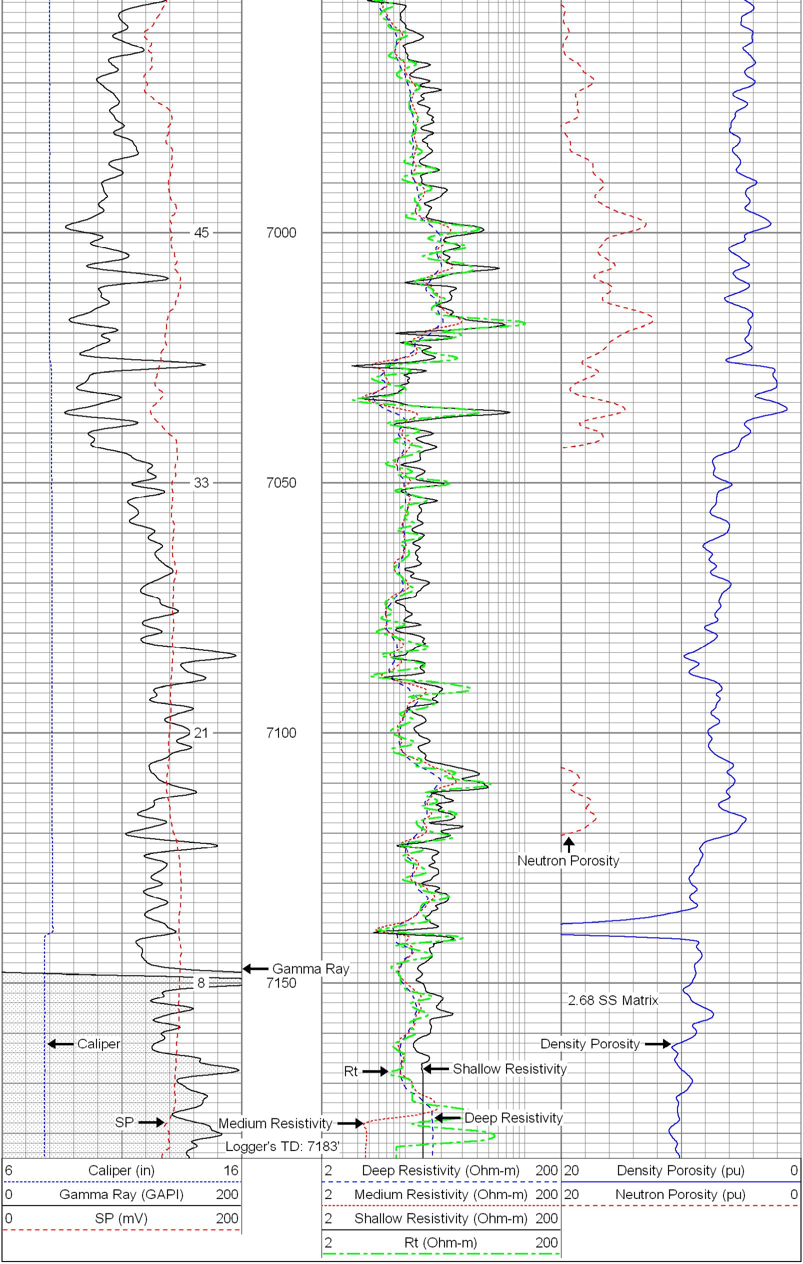20 Density Porosity (pu) 0
20 Neutron Porosity (pu) 0