PIONEER
Pioneer Energy Services

HIGH RESOLUTION INDUCTION
COMPENSATED DENSITY
COMPENSATED NEUTRON

Company	Bayswater Exploration and Production LLC
Well	Hirsch 11-24
Field	Wattenberg
County	Weld
State	Colorado

Company	**Bayswater Exploration and Production LLC**		
Well	**Hirsch 11-24**		
Field	**Wattenberg**		
County	**Weld**	**State**	**Colorado**

Location: API # : 05123379190000

SHL: 1501' FNL & 1975' FWL SENW
BHL: 1864' FSL & 1357' FWL NESW

SEC 24 TWP 7N RGE 67W

Permanent Datum	GL	Elevation	5035
Log Measured From	KB		
Drilling Measured From	KB		

Other Services
None

Elevation
K.B. 5048
D.F. 5048
G.L. 5035

Date	January 18, 2014		
Run Number	1		
Depth Driller	7955		
Depth Logger	7956		
Bottom Logged Interval	7956		
Top Log Interval	Casing		
Casing Driller	836		
Casing Logger	836		
Bit Size	7-7/8"		
Type Fluid in Hole	Chem Gel		
Density / Viscosity	9.4 / 61		
pH / Fluid Loss	8.5 / 9.2		
Source of Sample	Flowline		
Rm @ Meas. Temp	3.78 @ 60 F		
Rmf @ Meas. Temp	3.02 @ 60 F		
Rmc @ Meas. Temp	4.54 @ 60 F		
Source of Rmf / Rmc	Measure / Calc		
Rm @ BHT	1.09 @ 208 F		
Time Circulation Stopped	1800 1/17		
Time Logger on Bottom	0130		
Maximum Recorded Temperature	208 F		
Equipment Number	49		
Location	Brighton, CO		
Recorded By	Matt Gill		
Witnessed By	Don Patton	Robert C.	

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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

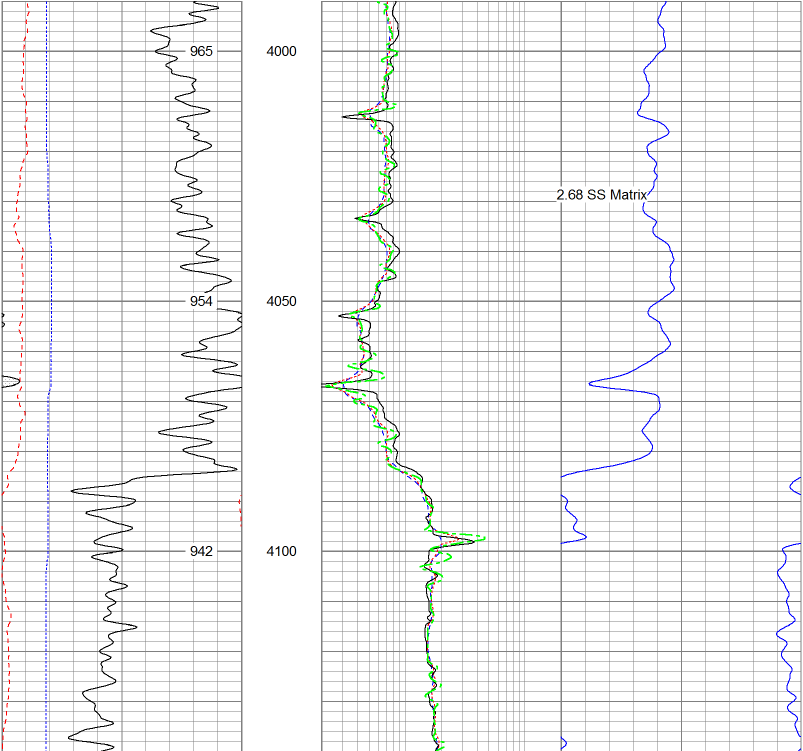
Annular volume calculated for 4.5" casing
Ensign Drilling Rig 122
Thank you for using Pioneer Energy Services

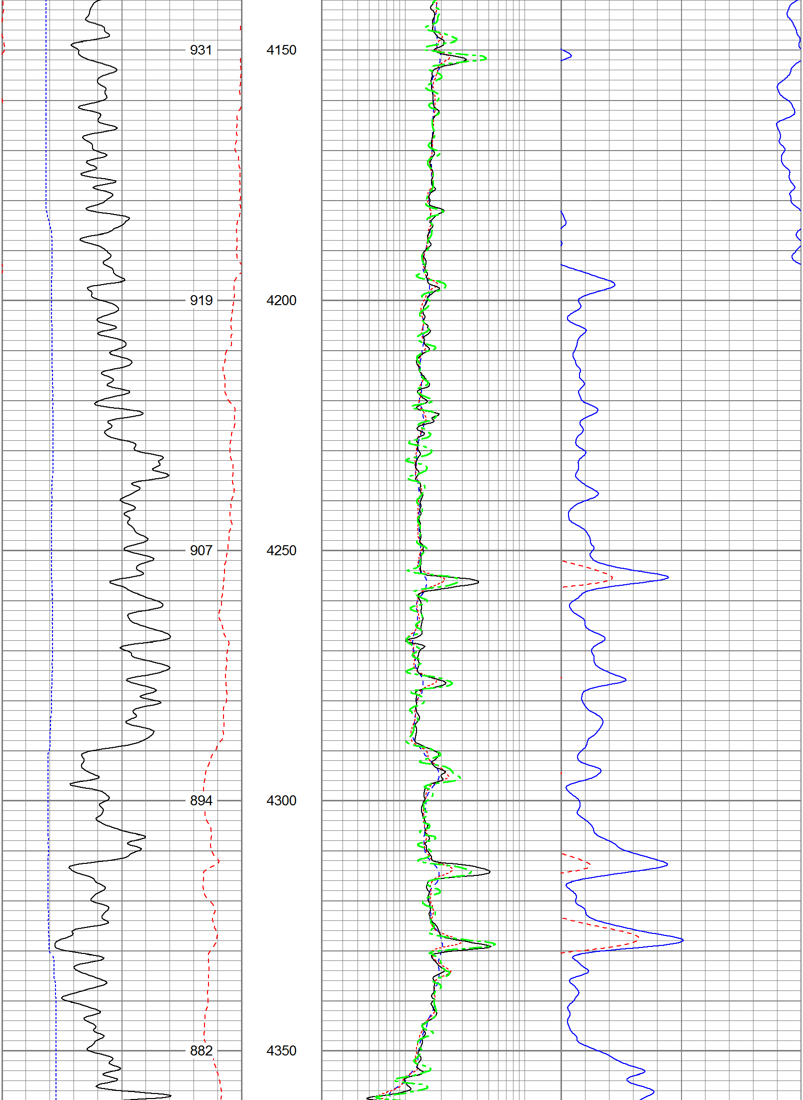
Database File:	13410.db
Dataset Pathname:	final
Presentation Format:	pdc1
Dataset Creation:	Sat Jan 18 02:30:48 2014
Charted by:	Depth in Feet scaled 1:240

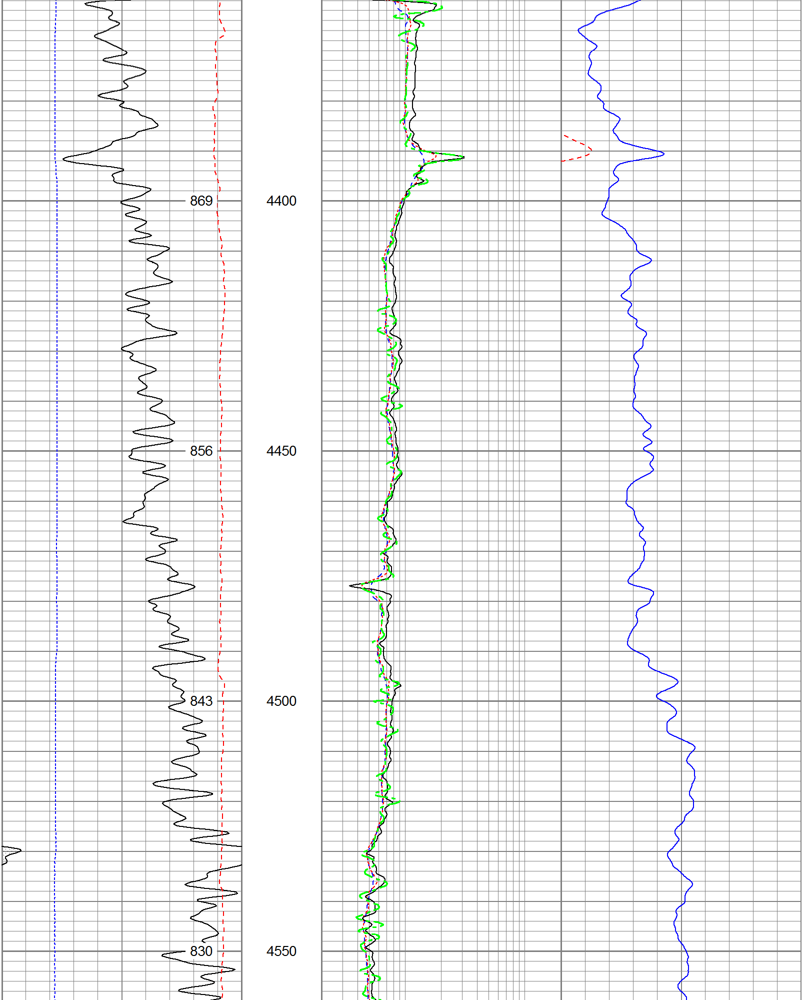
6	Density Caliper (in)	16
30	Gamma Ray (GAPI)	130
100	SP (mV)	200
	ABHV (ft3)	

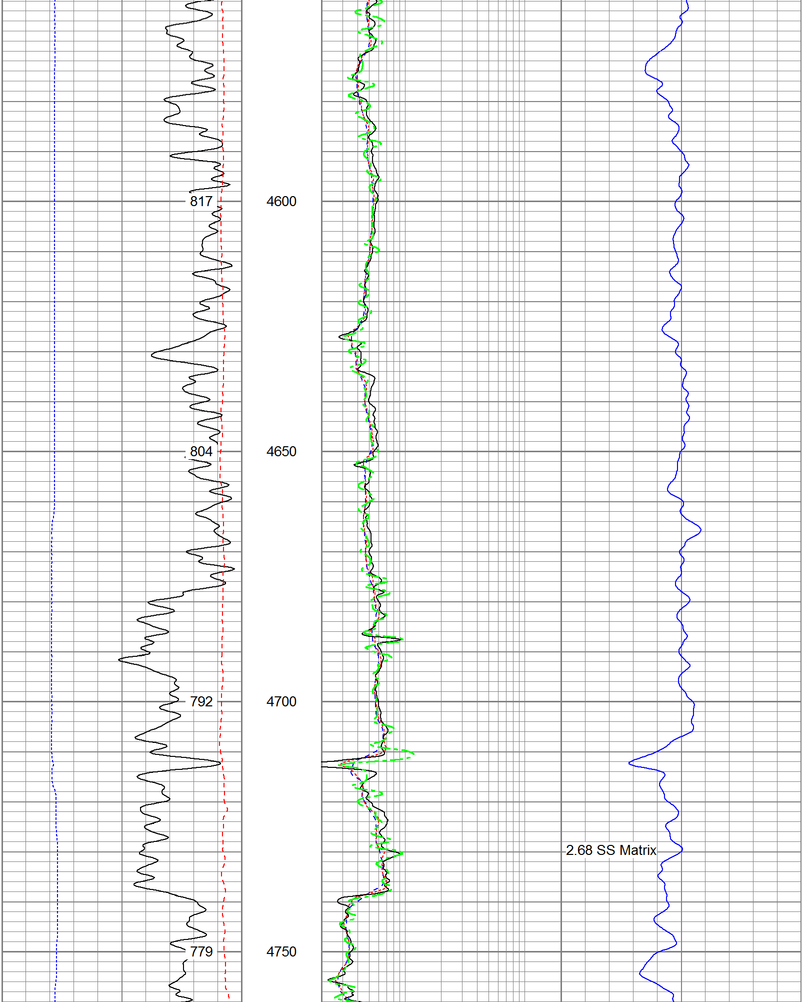
2	Deep Resistivity (Ohm-m)	200
2	Medium Resistivity (Ohm-m)	200
2	Shallow Resistivity (Ohm-m)	200
2	Rt (Ohm-m)	200

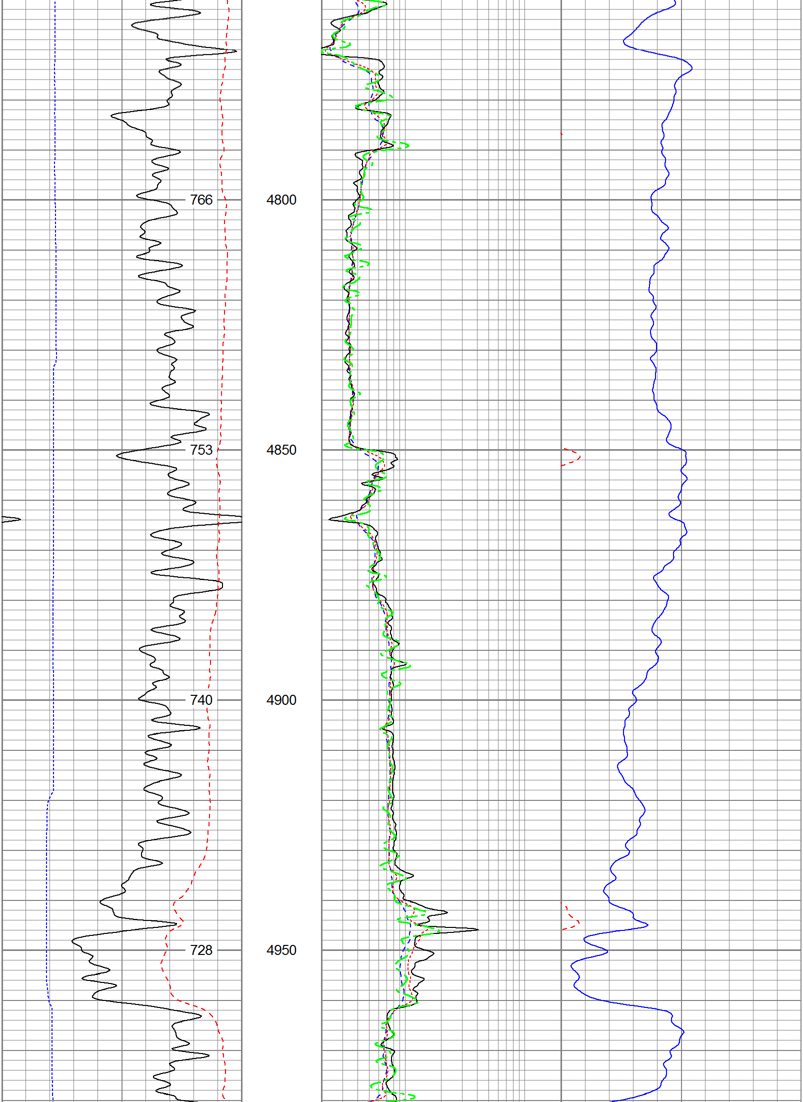
20	Density Porosity (pu)	0
20	Neutron Porosity (pu)	0

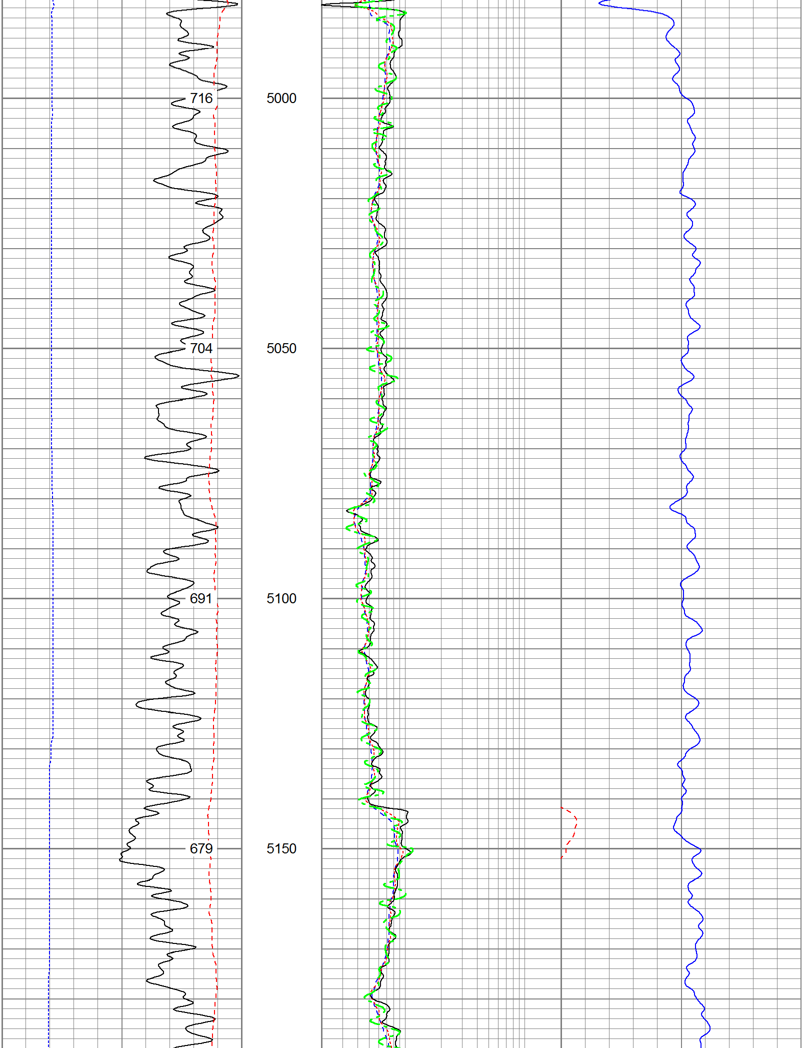


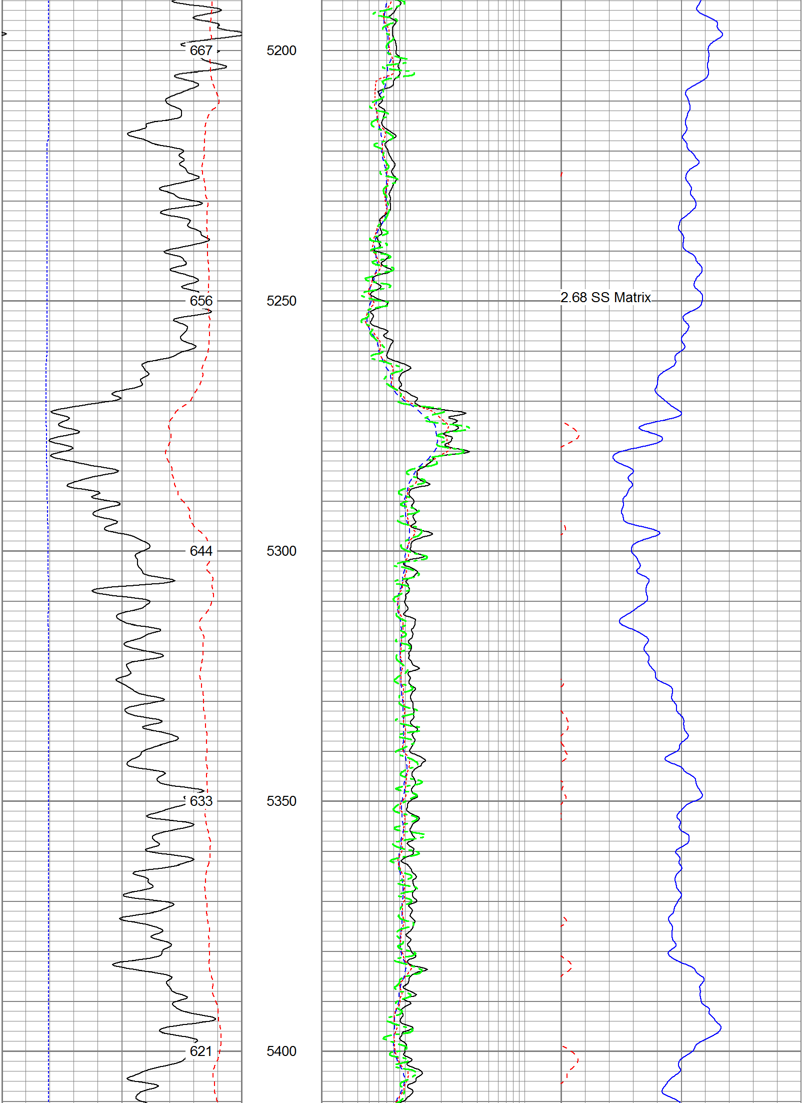


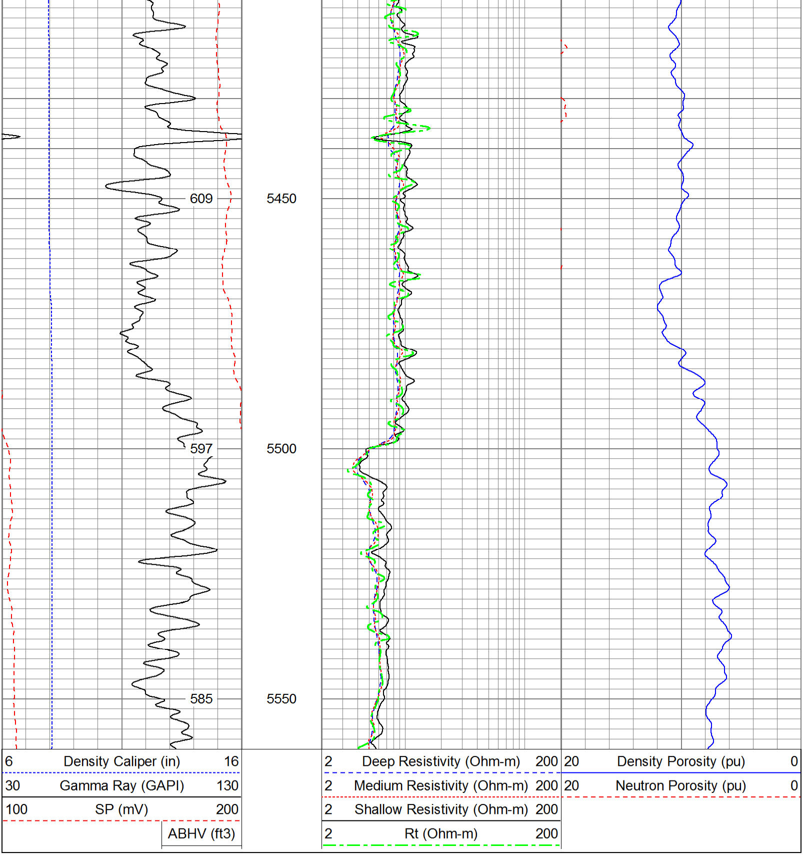












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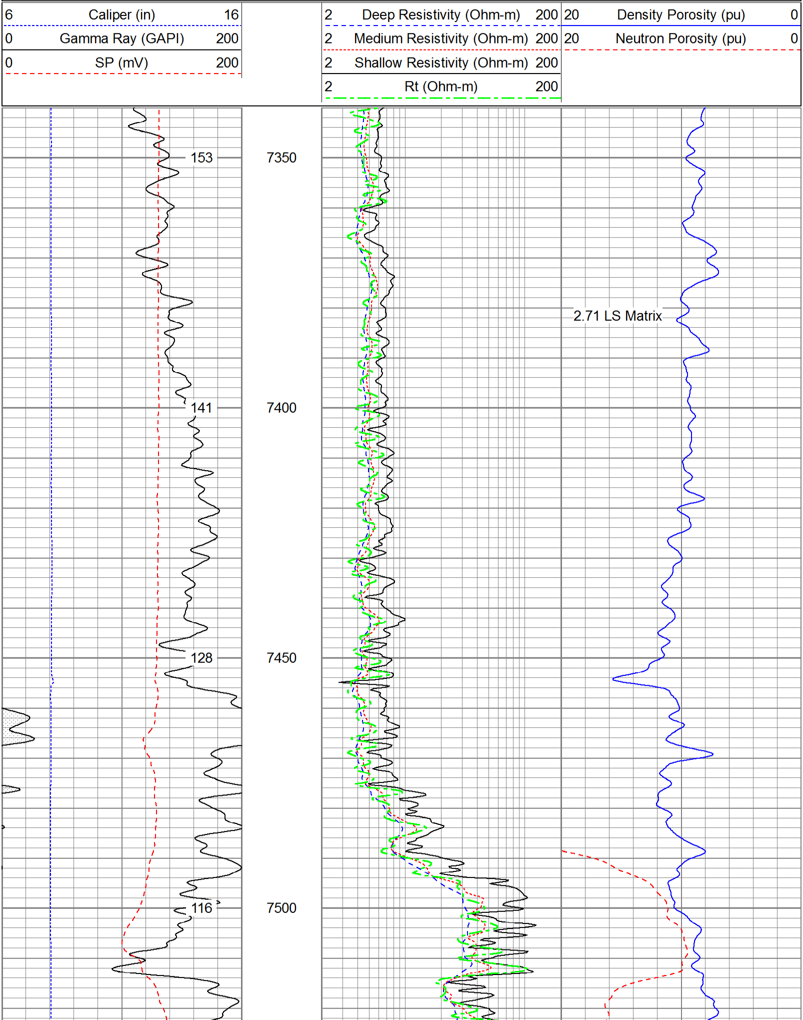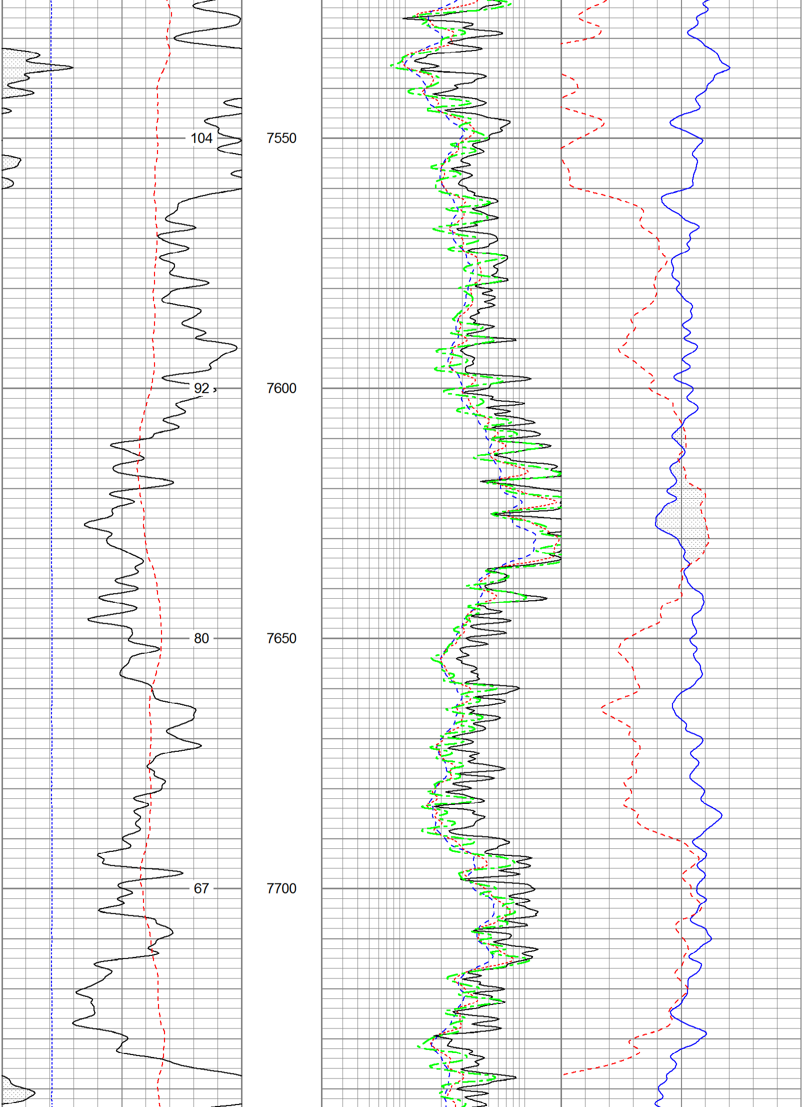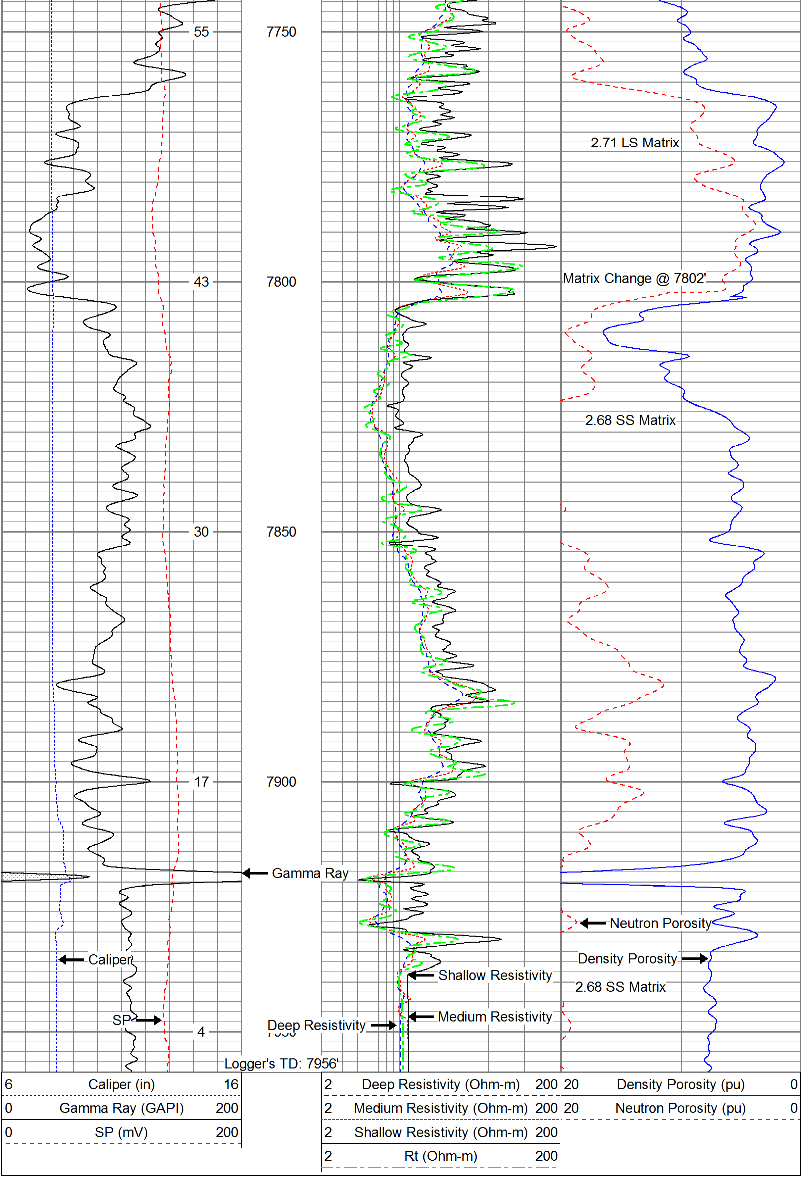
6 Caliper (in) 16
0 Gamma Ray (GAPI) 200
0 SP (mV) 200
2 Deep Resistivity (Ohm-m) 200
2 Medium Resistivity (Ohm-m) 200
2 Shallow Resistivity (Ohm-m) 200
2 Rt (Ohm-m) 200
20 Density Porosity (pu) 0
20 Neutron Porosity (pu) 0
153
141
128
116
7350
7400
7450
7500
2.71 LS Matrix