PHOENIX SURVEYS, INC.

HIGH RESOLUTION INDUCTION
COMPENSATED DENSITY
COMPENSATED NEUTRON

Company	EnCana Oil & Gas (USA) Inc.
Well	Billings 31-34
Field	Spindle
County	Weld
State/Province	Colorado

Company
Well
Field
County
State/Prv

Location
SHL: 1018' FNL & 1058' FEL NENE
BHL: 510' FNL & 2130' FEL NWNE
Sec 34, Twp 2N, Rge 68W

Other Services
None

Permanent Datum	GL	Elevation	4995
Log Measured From	KB		
Drilling Measured From	KB		

Elevation
K.B. 5007
D.F. 4887
G.L. 4995

Date	May 5, 2011		
Run Number	1		
Depth Driller	8405		
Depth Logger	8401		
Bottom Logged Interval	8401		
Top Log Interval	Casing		
Casing Driller	1052		
Casing Logger	1052		
Bit Size	7+7/8"		
Type Fluid in Hole	Chem Gel		
Density / Viscosity	9.9 / 55		
pH / Fluid Loss	8.8 / 9.8		
Source of Sample	Flowline		
Rm @ Meas. Temp	3.37 @ 68 F		
Rmf @ Meas. Temp	2.70 @ 68 F		
Rmc @ Meas. Temp	4.04 @ 68 F		
Source of Rmf / Rmc	Measure / Calc		
Rm @ BHT	1.03 @ 228 F		
Time Circulation Stopped	1830 5/4		
Time Logger on Bottom	0220		
Maximum Recorded Temperature	228 F		
Equipment Number	50		
Location	Brighton, CO		
Recorded By	Matt Gill		
Witnessed By	Wes Harrington		

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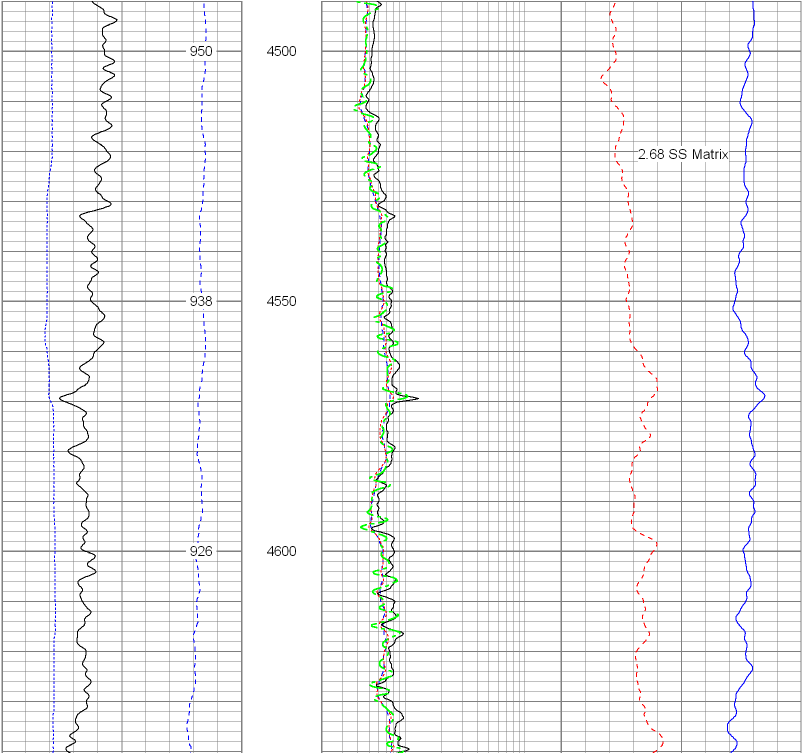
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

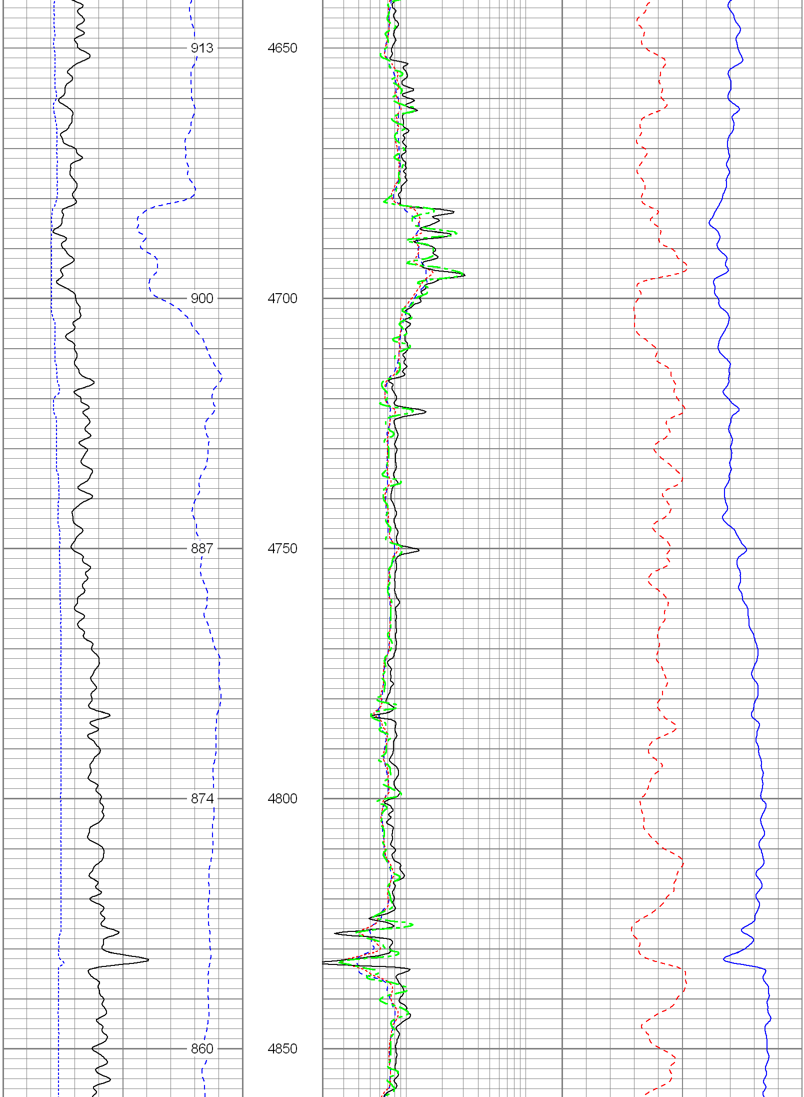
Comments

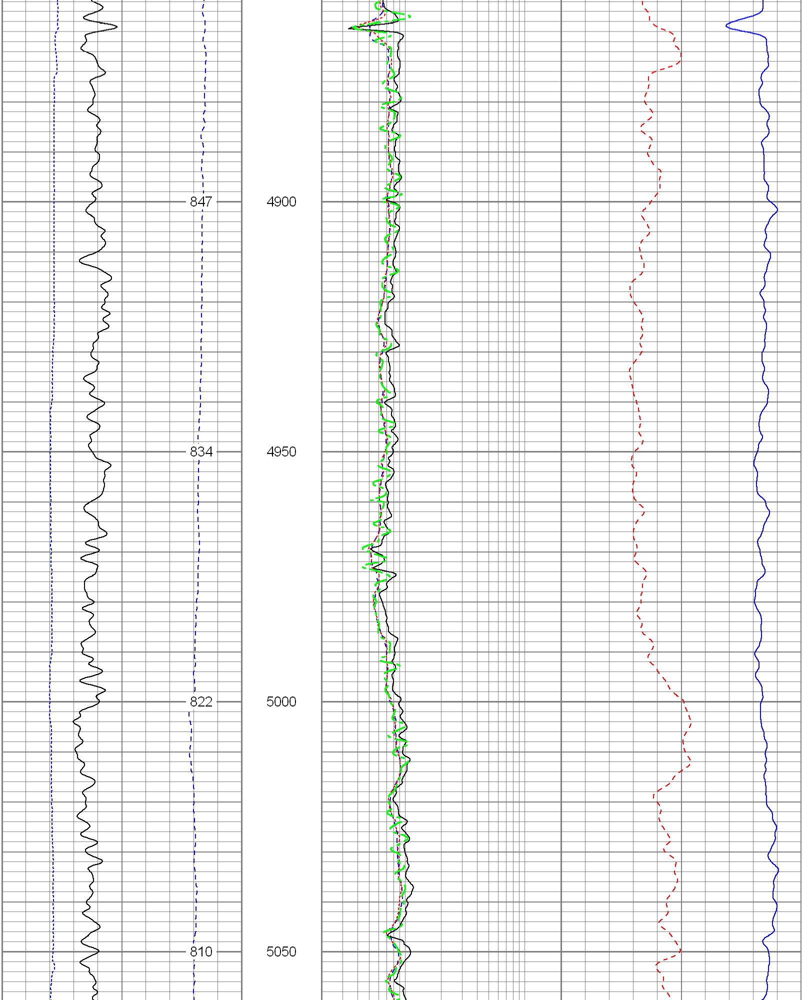
Annular volume calculated for 4.5" casing
Ensign Drilling Rig 17
Thank you for using Phoenix Surveys!!
API #: 05-123-29270-00

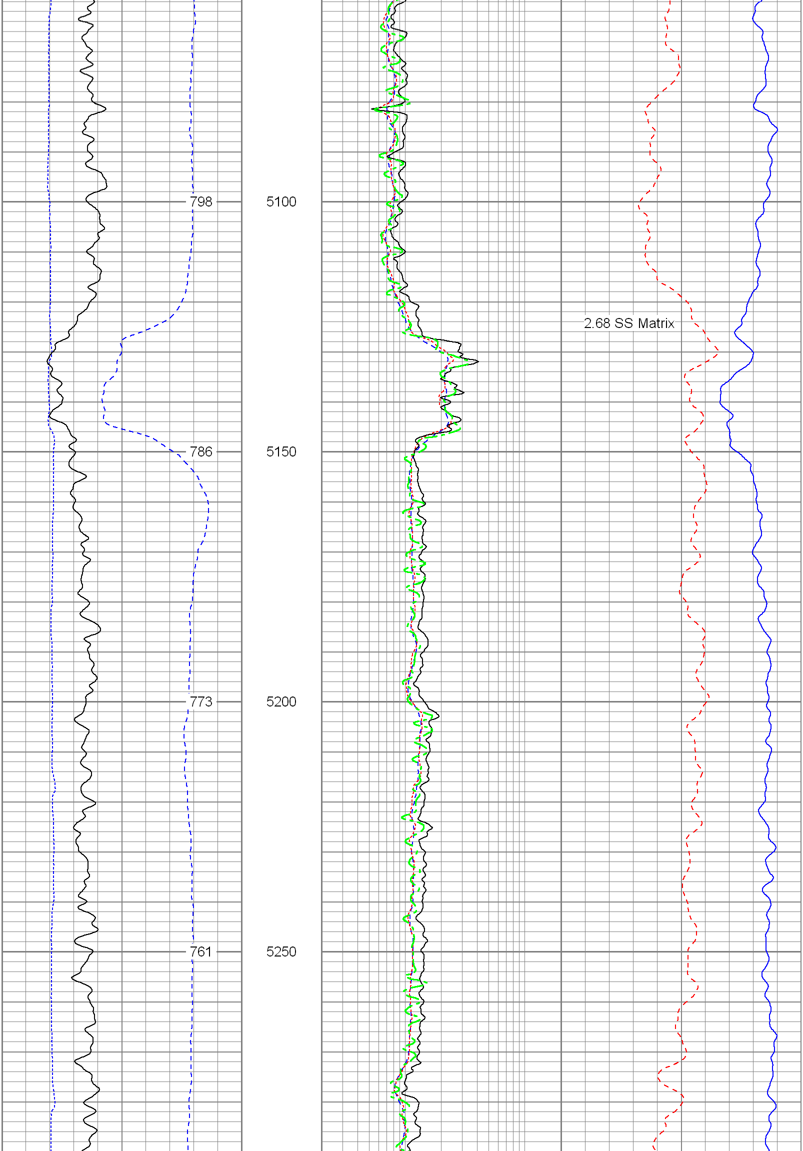
Database File:	11636.db
Dataset Pathname:	final
Presentation Format:	encana1
Dataset Creation:	Thu May 05 03:07:32 2011
Charted by:	Depth in Feet scaled 1:240

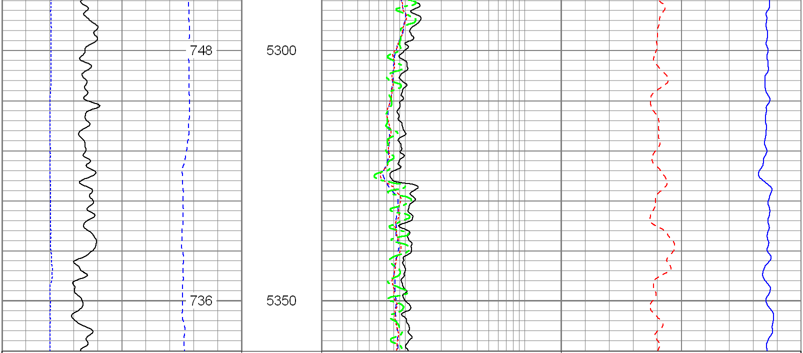
6	Density Caliper (in)	16
0	Gamma Ray (GAPI)	300
80	SP (mV)	180
	ABHV (ft3)	
2	Deep Resistivity (Ohm-m)	200
2	Medium Resistivity (Ohm-m)	200
2	Shallow Resistivity (Ohm-m)	200
2	Rt (Ohm-m)	200
40	Density Porosity (pu)	0
40	Neutron Porosity (pu)	0











6 Density Caliper (in) 16		2 Deep Resistivity (Ohm-m) 200	40 Density Porosity (pu) 0
0 Gamma Ray (GAPI) 300		2 Medium Resistivity (Ohm-m) 200	40 Neutron Porosity (pu) 0
80 SP (mV) 180		2 Shallow Resistivity (Ohm-m) 200	
ABHV (ft3)		2 Rt (Ohm-m) 200	

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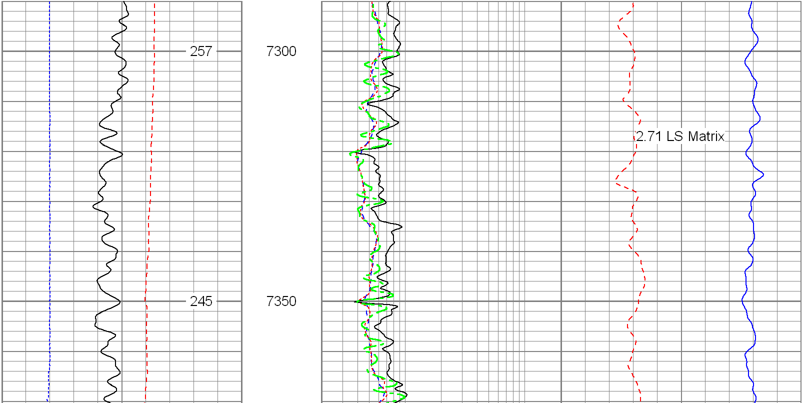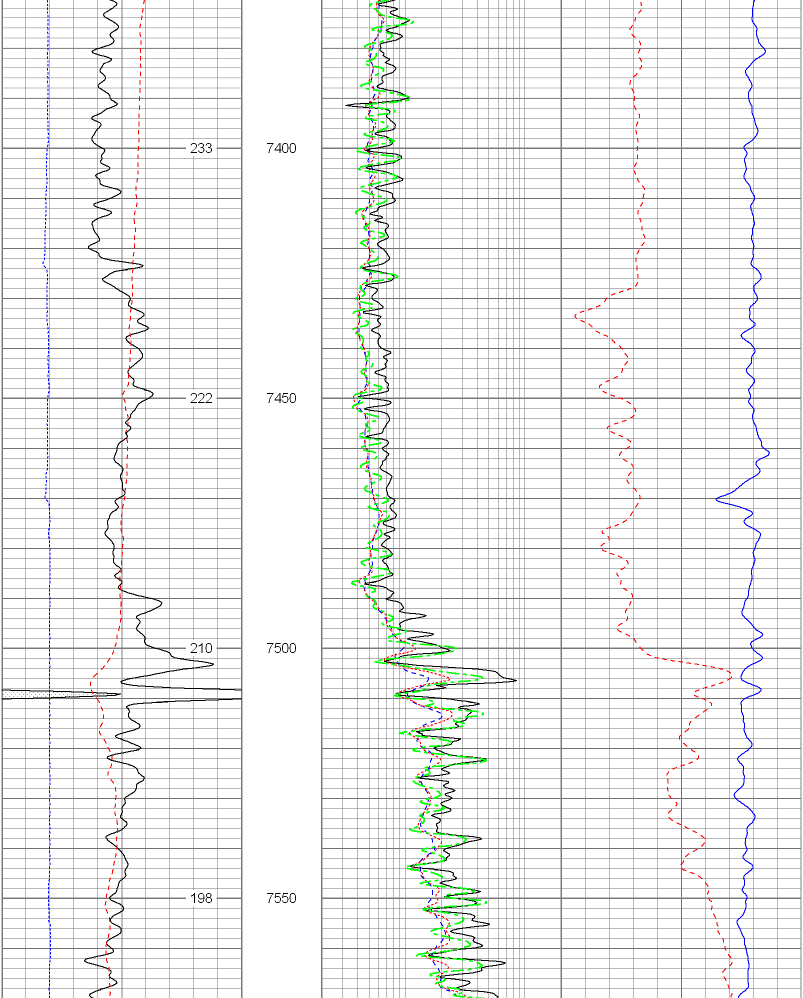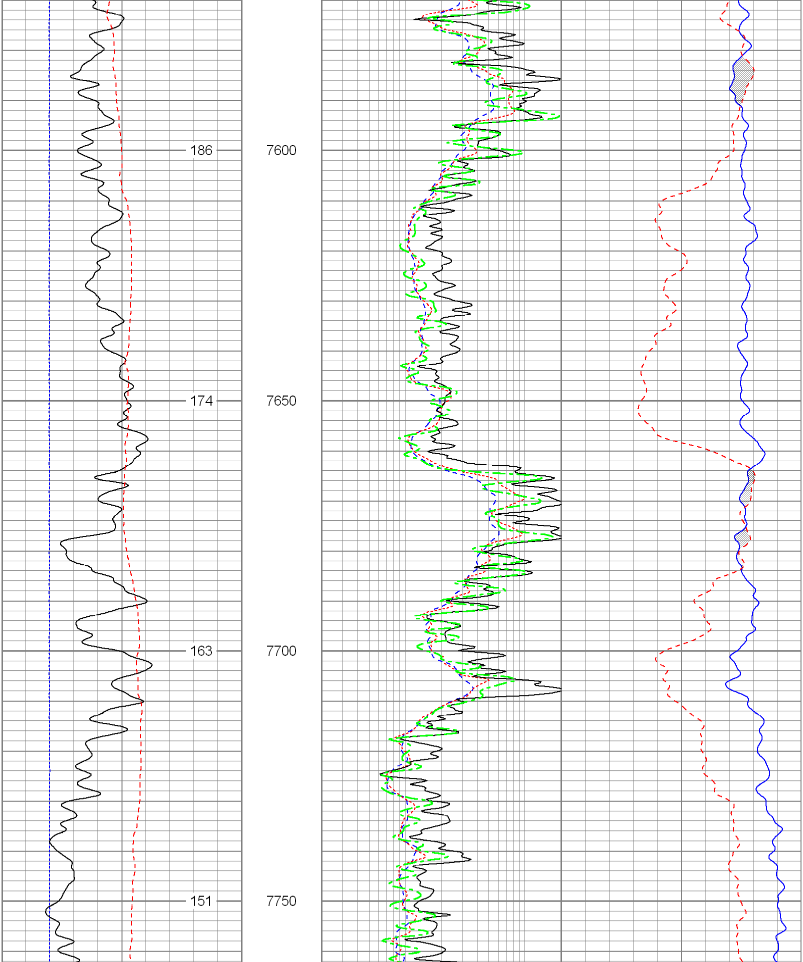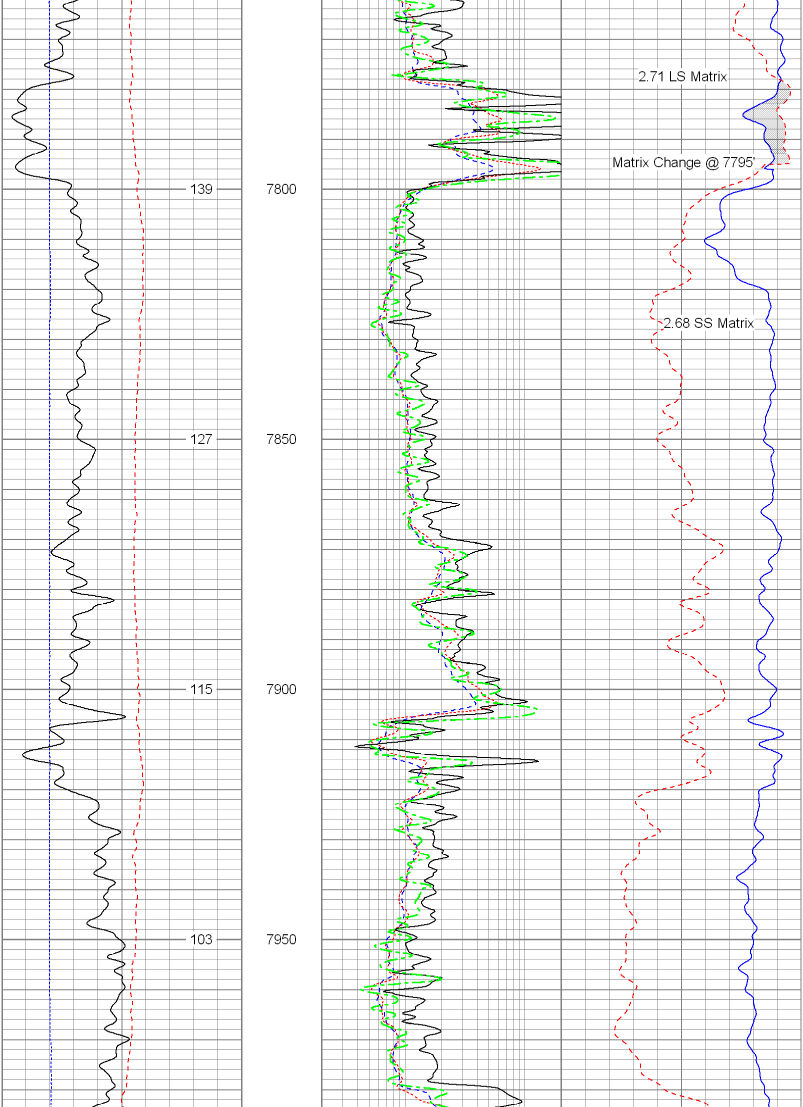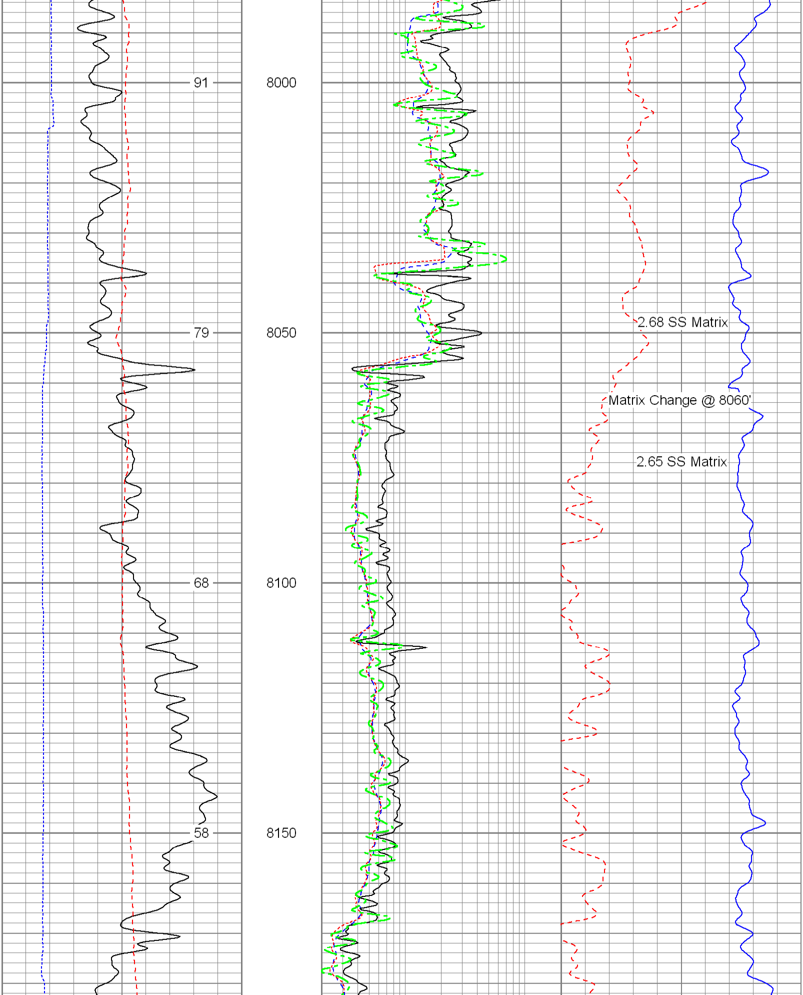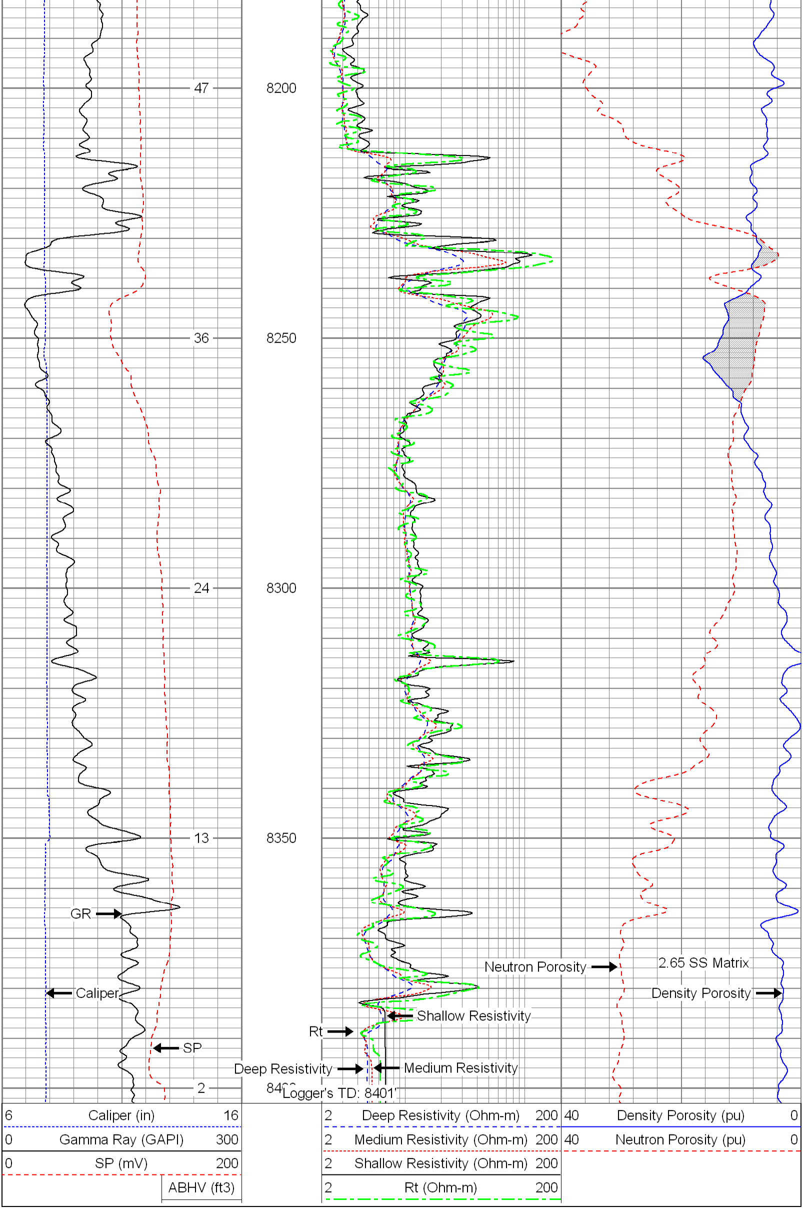6 Caliper (in) 16		2 Deep Resistivity (Ohm-m) 200	40 Density Porosity (pu) 0
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