PSI
PHOENIX SURVEYS, INC.

COMPENSATED DENSITY
COMPENSATED NEUTRON
DUAL INDUCTION

Company
Well
Field
County
State/Prv

Company EnCana Oil & Gas (USA) Inc
Well Vessels Minerals 13-19
Field Wattenberg
County Weld **State/Province** Colorado

Location
SHL: 1514' FSL & 1038' FWL NW SW
BHL: 2140' FSL & 510' FWL NW SW
Sec. 19 Twp. 1N, Rge. 68W

Other Services
None

Elevation
K.B. 5079
D.F. 5078
G.L. 5064

Permanent Datum	GL	Elevation	5064
Log Measured From	KB		
Drilling Measured From	KB		

Date	June 17, 2009		
Run Number	1		
Depth Driller	8560		
Depth Logger	8549		
Bottom Logged Interval	8549		
Top Log Interval	Casing		
Casing Driller	885		
Casing Logger	885		
Bit Size	7-7/8"		
Type Fluid in Hole	Chem Gel		
Density / Viscosity	9.6 / 72		
pH / Fluid Loss	8.0 / 8.4		
Source of Sample	Flowline		
Rm @ Meas. Temp	3.28 @ 78° F		
Rmf @ Meas. Temp	2.45 @ 78° F		
Rmc @ Meas. Temp	4.12 @ 78° F		
Source of Rmf / Rmc	Measure / Calc		
Rm @ BHT	1.21 @ 224° F		
Time Circulation Stopped	0515		
Time Logger on Bottom	1400		
Maximum Recorded Temperature	224° F		
Equipment Number	51		
Location	Brighton, CO		
Recorded By	Randy Conley		
Witnessed By	Craig Hope		

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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

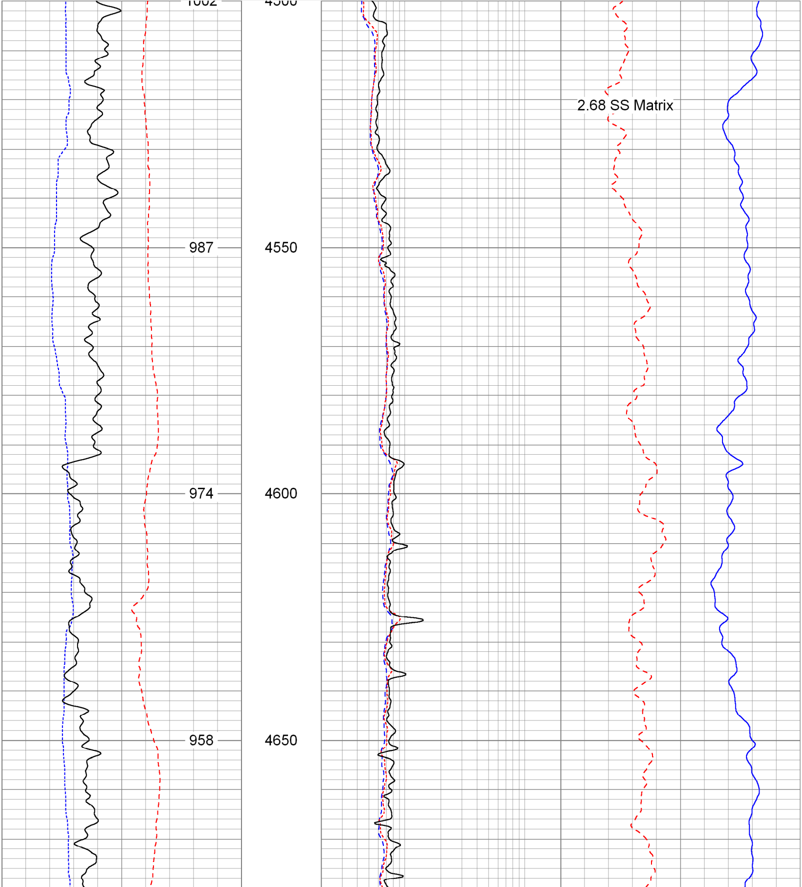
Annular volume calculated for 4-1/2" casing
Patterson UTI Rig 34
Thank you for using Phoenix Surveys!!
API #: 05-123-30276-00

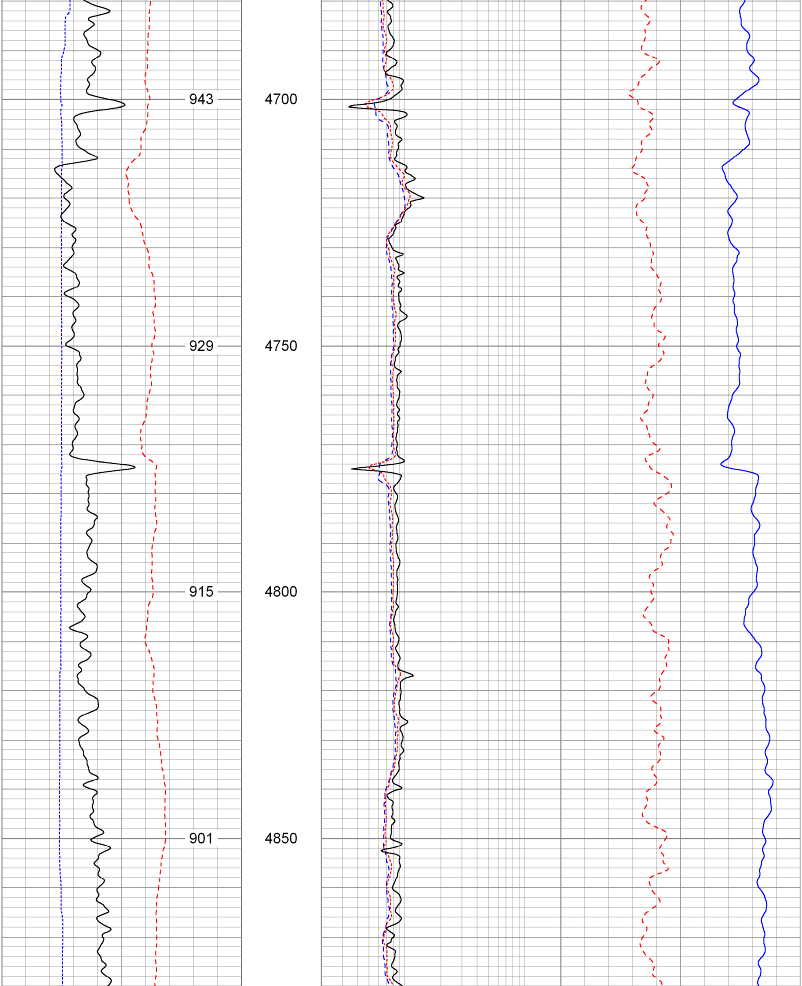
Database File: 10022.db
Dataset Pathname: final
Presentation Format: encana1
Dataset Creation: Wed Jun 17 14:56:14 2009
Charted by: Depth in Feet scaled 1:240

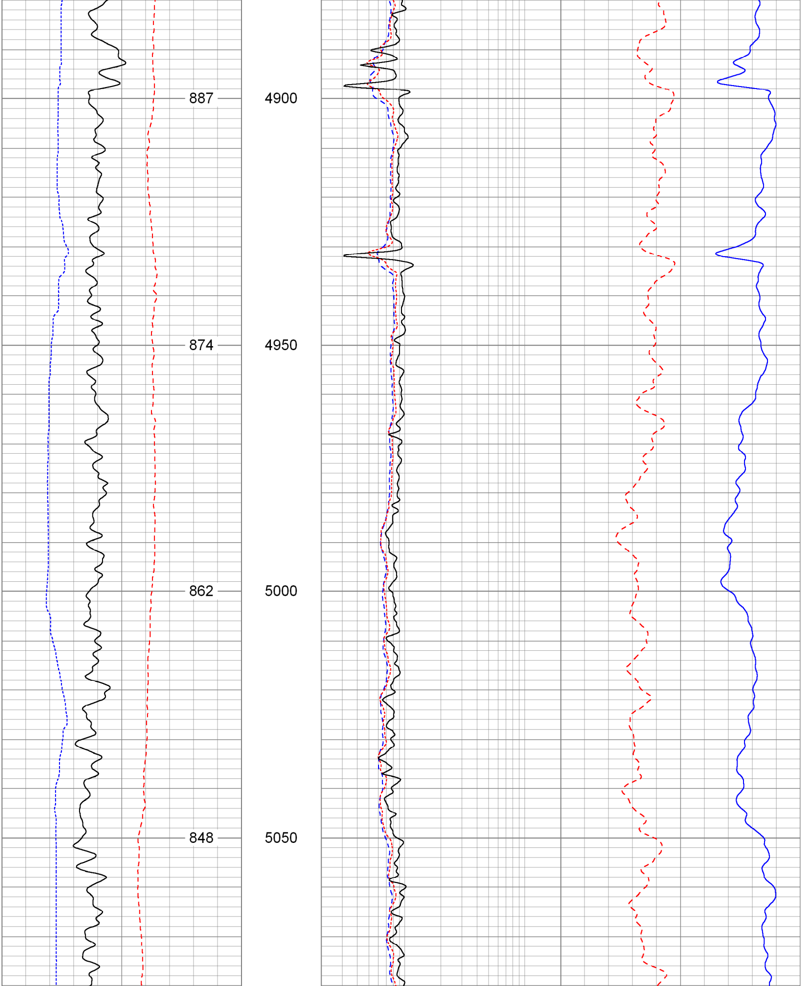
6 Density Caliper (in) 16
0 Gamma Ray (GAPI) 300
80 SP (mV) 180
ABHV
(ft3)

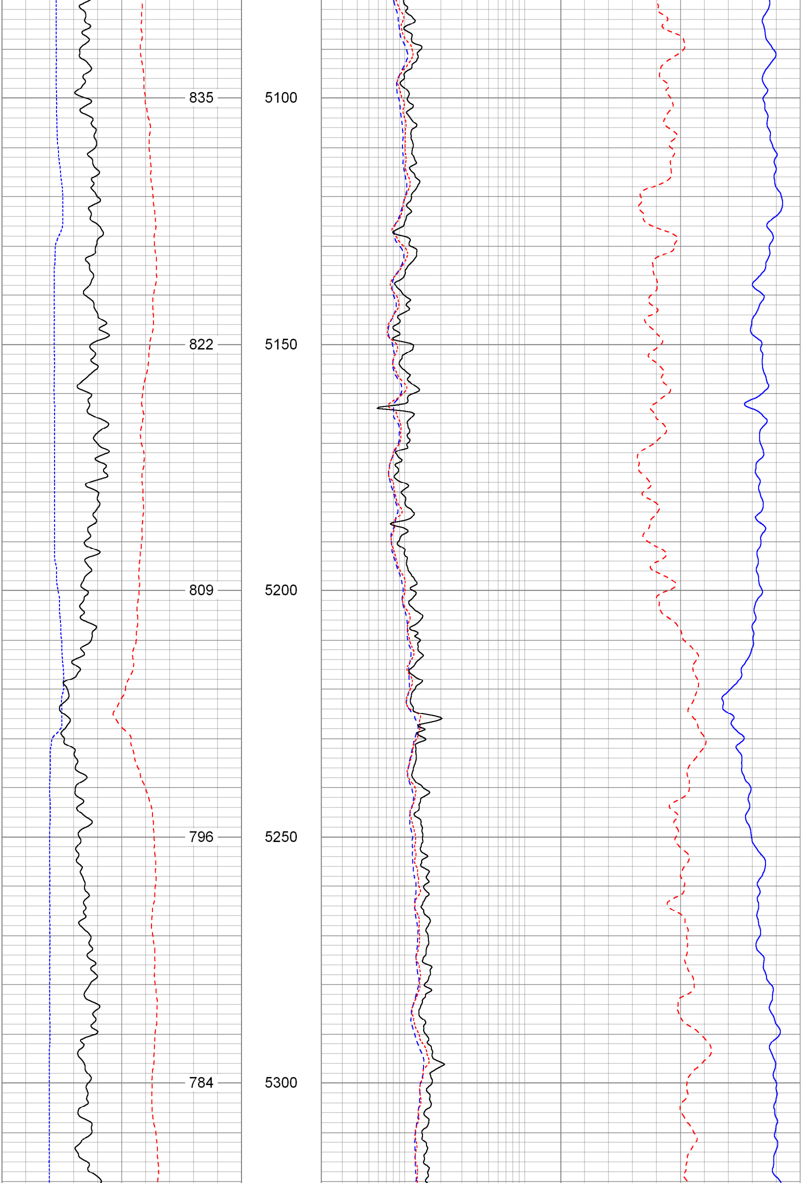
2 Deep Resistivity (Ohm-m) 200
2 Medium Resistivity (Ohm-m) 200
2 Shallow Resistivity (Ohm-m) 200

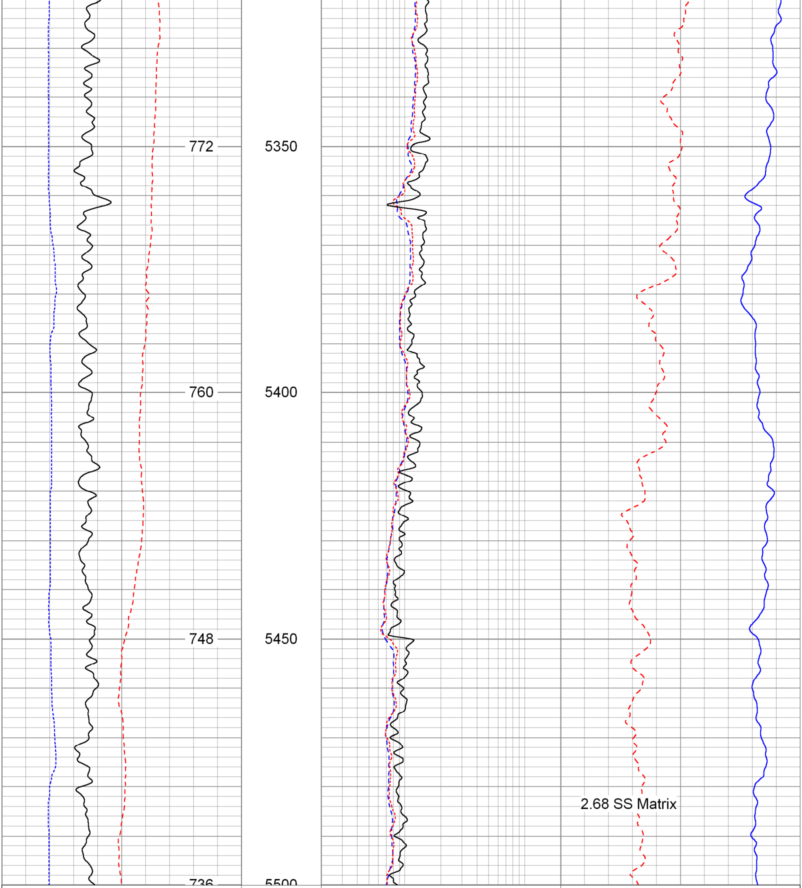
40 Density Porosity (pu) 0
40 Neutron Porosity (pu) 0











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80	SP (mV)	180

ABHV
(ft3)

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

40	Density Porosity (pu)	0
40	Neutron Porosity (pu)	0

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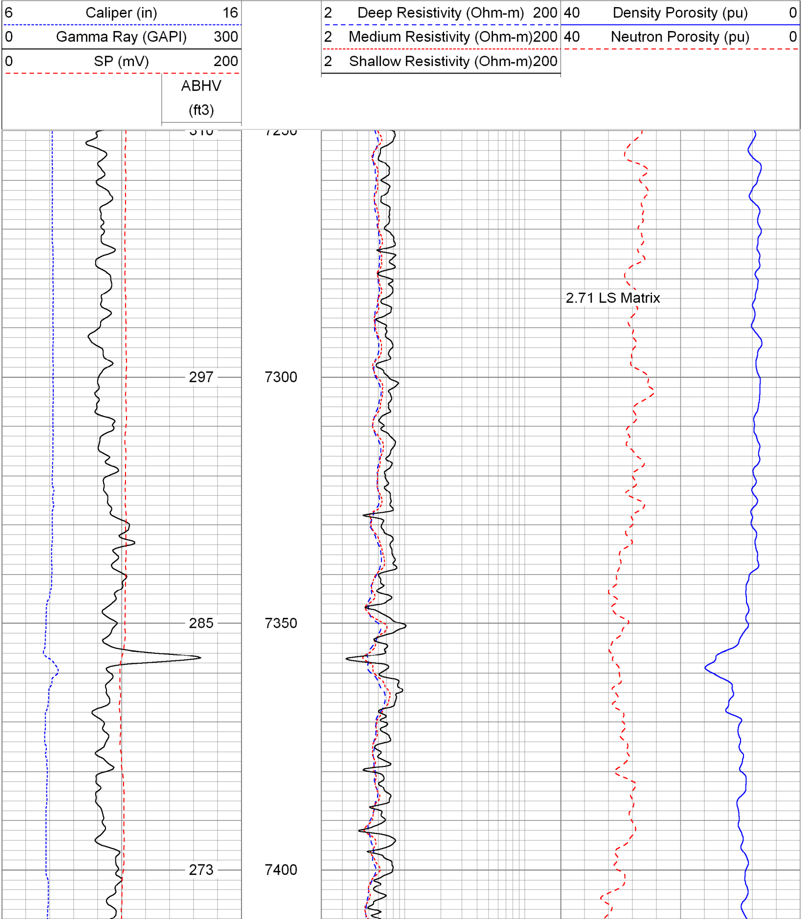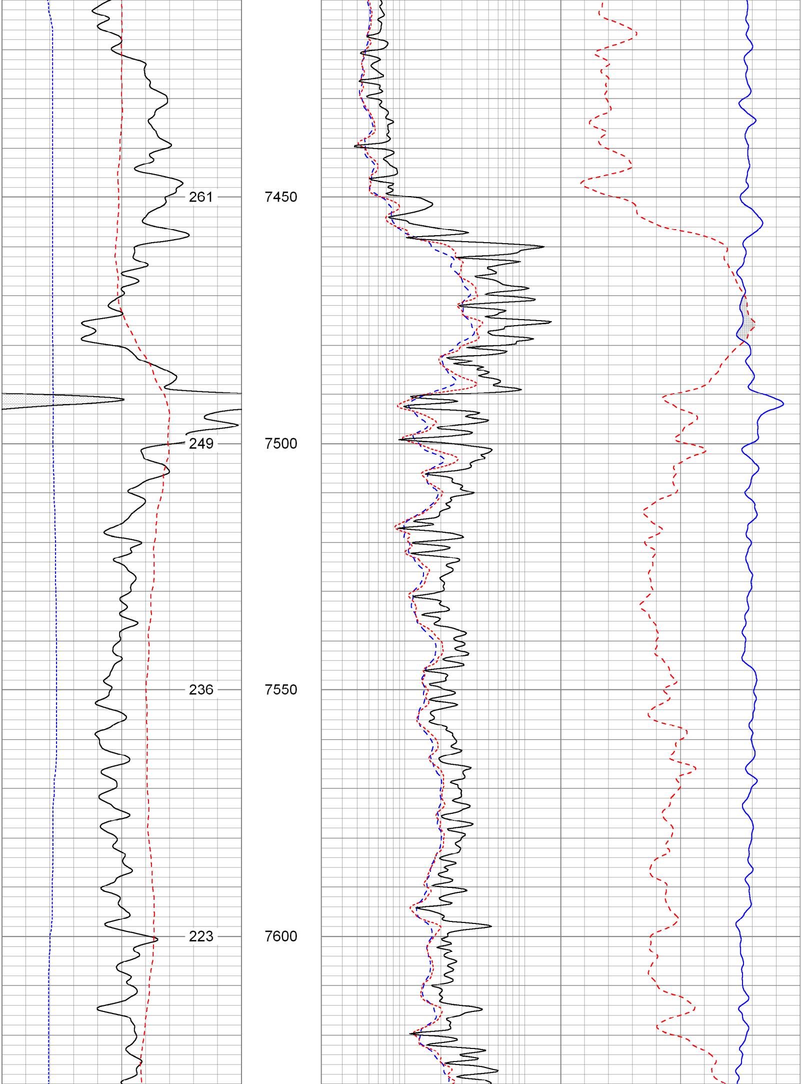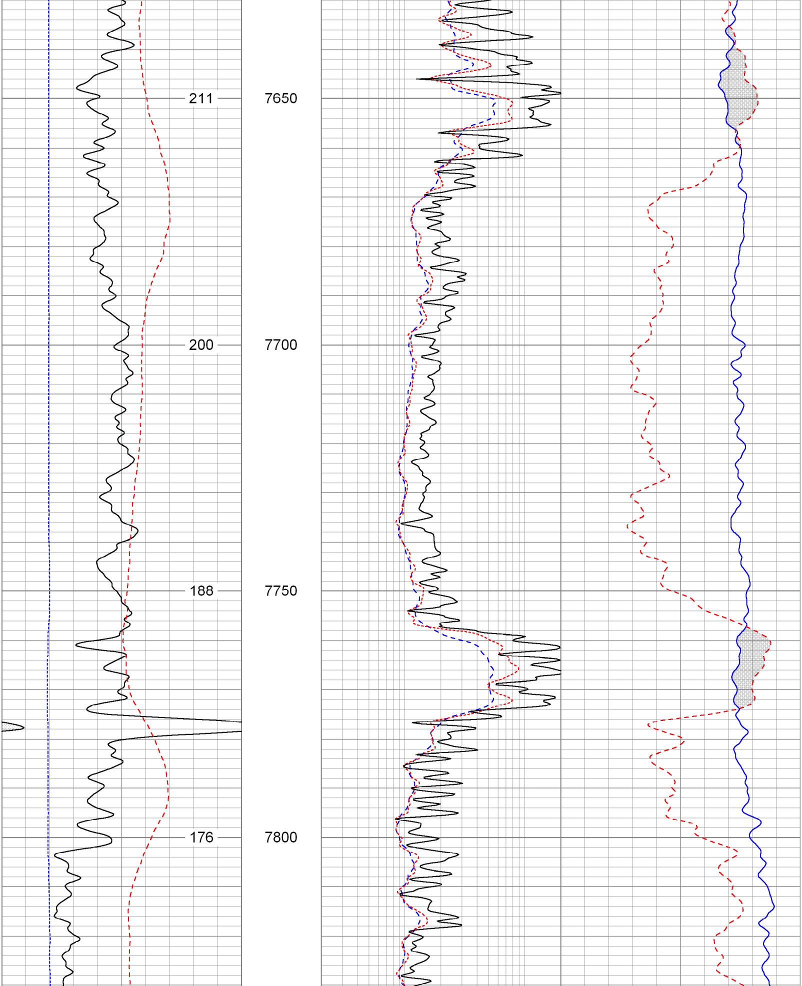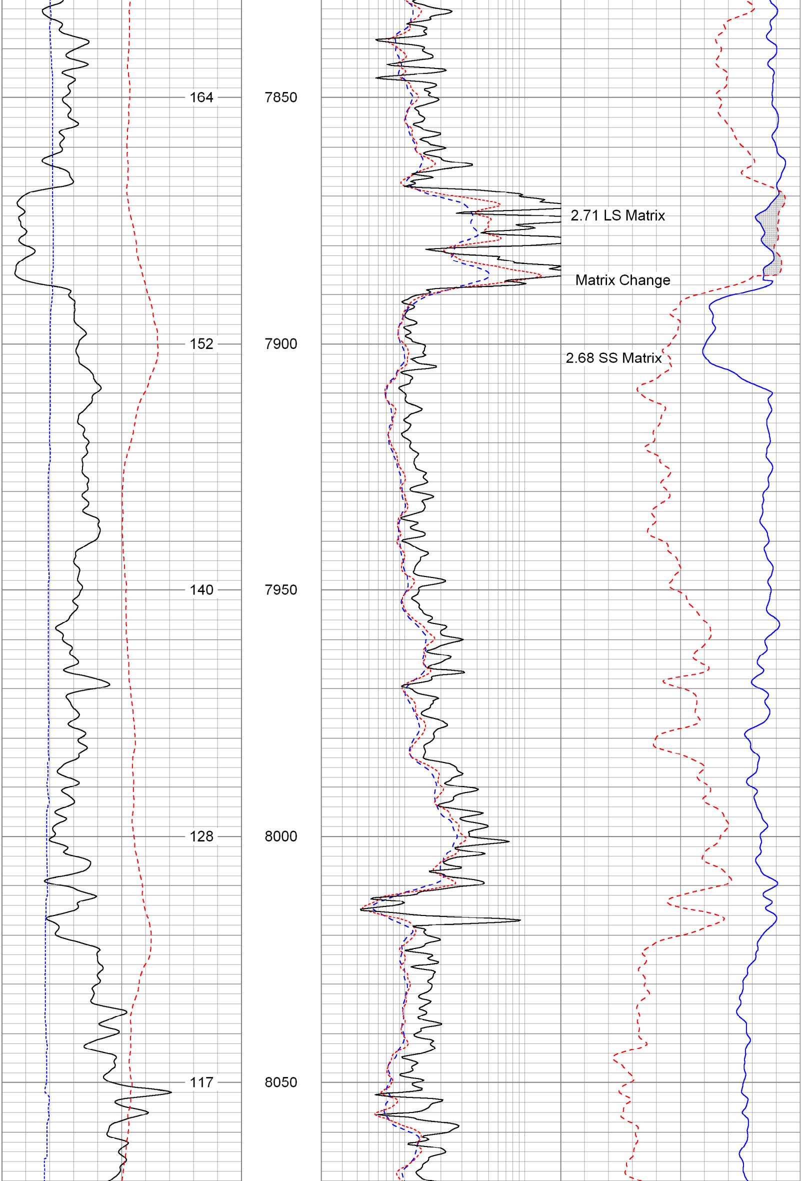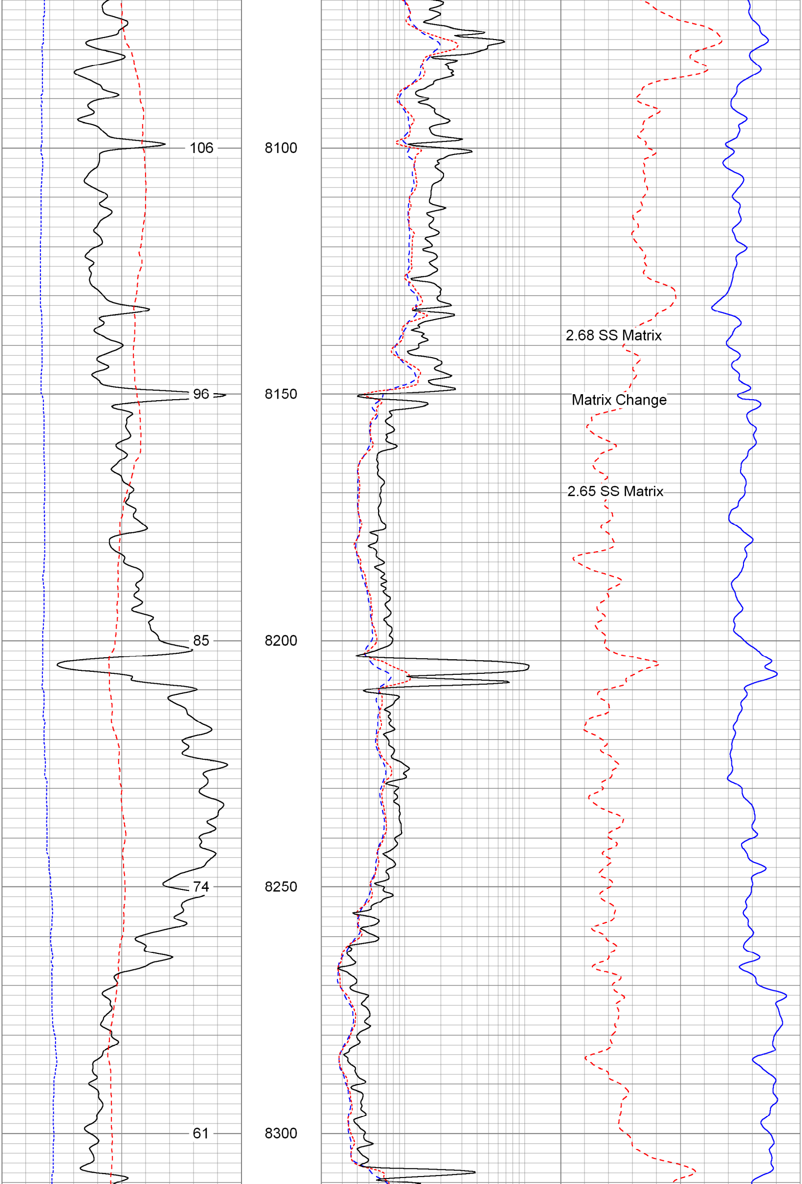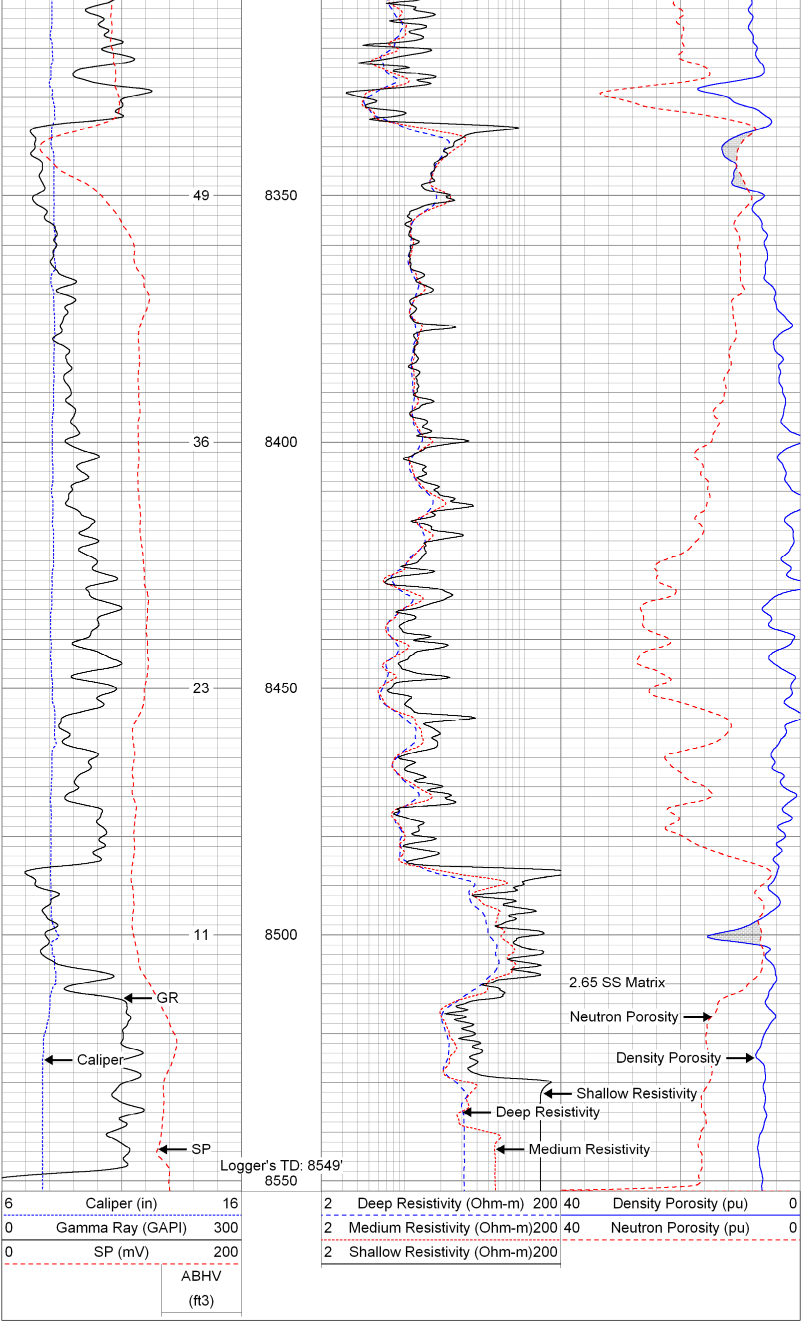
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0 Gamma Ray (GAPI) 300
0 SP (mV) 200
ABHV (ft3)
2 Deep Resistivity (Ohm-m) 200
2 Medium Resistivity (Ohm-m)200
2 Shallow Resistivity (Ohm-m)200
40 Density Porosity (pu) 0
40 Neutron Porosity (pu) 0
297
7300
285
7350
273
7400
2.71 LS Matrix