PHOENIX SURVEYS, INC.

COMPENSATED DENSITY
COMPENSATED NEUTRON
DUAL INDUCTION

Company
Well
Field
County
State/Prv

Company	Bonanza Creek Operating Co. LLC
Well	Antelope 43-18
Field	Wattenberg
County	Weld
State/Province	Colorado
Location	SHL: 1376' FSL & 764' FEL NESE BHL: 1987' FSL & 682' FEL NESE Sec - 18, Twp - 5N, Rge - 62W
Other Services	None

Permanent Datum	GL	Elevation	4639
Log Measured From	KB		
Drilling Measured From	KB		

Elevation
K.B. 4649
D.F. 4648
G.L. 4639

Date	November 13, 2010		
Run Number	1		
Depth Driller	6710		
Depth Logger	6711		
Bottom Logged Interval	6711		
Top Log Interval	Casing		
Casing Driller	458		
Casing Logger	458		
Bit Size	7-7/8"		
Type Fluid in Hole	Polymer Gel		
Density / Viscosity	9.0 / 55		
pH / Fluid Loss	9.5 / 10.4		
Source of Sample	Flowline		
Rm @ Meas. Temp	3.12 @ 68 F		
Rmf @ Meas. Temp	2.17 @ 68 F		
Rmc @ Meas. Temp	4.21 @ 68 F		
Source of Rmf / Rmc	Measure / Calc		
Rm @ BHT	1.08 @ 198 F		
Time Circulation Stopped	0730		
Time Logger on Bottom	1500		
Maximum Recorded Temperature	198 F		
Equipment Number	49		
Location	Brighton, CO		
Recorded By	Ian Harris		
Witnessed By	Kurt Dodge	Robin Brackman	

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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

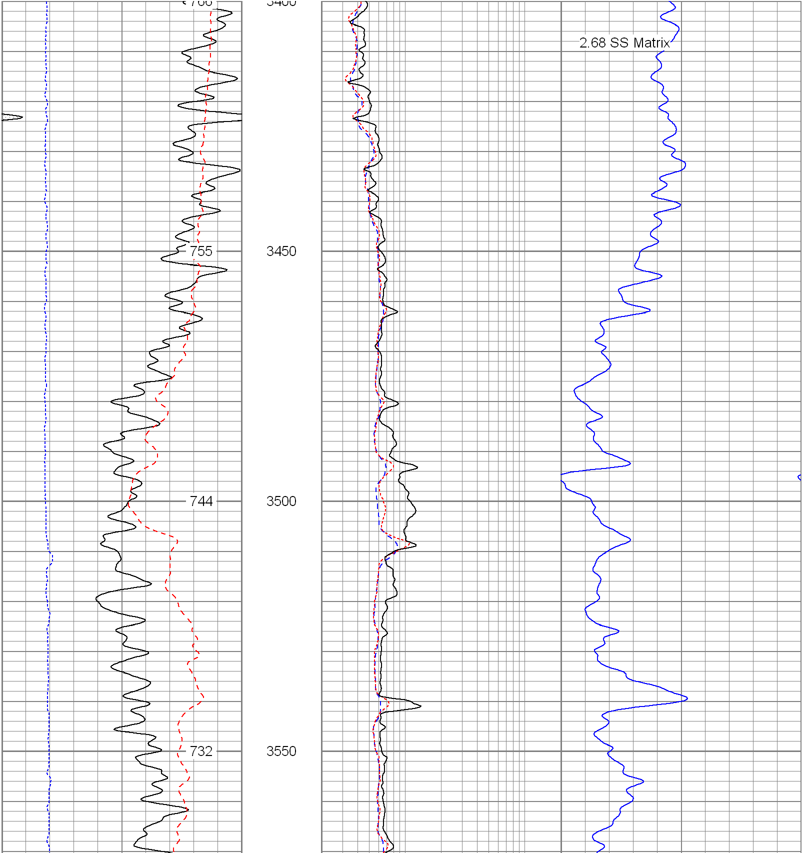
Annular volume calculated for 4.5" casing
Xtreme Rig 14
Thank you for using Phoenix Surveys!!
API #: 05-123-31856-00

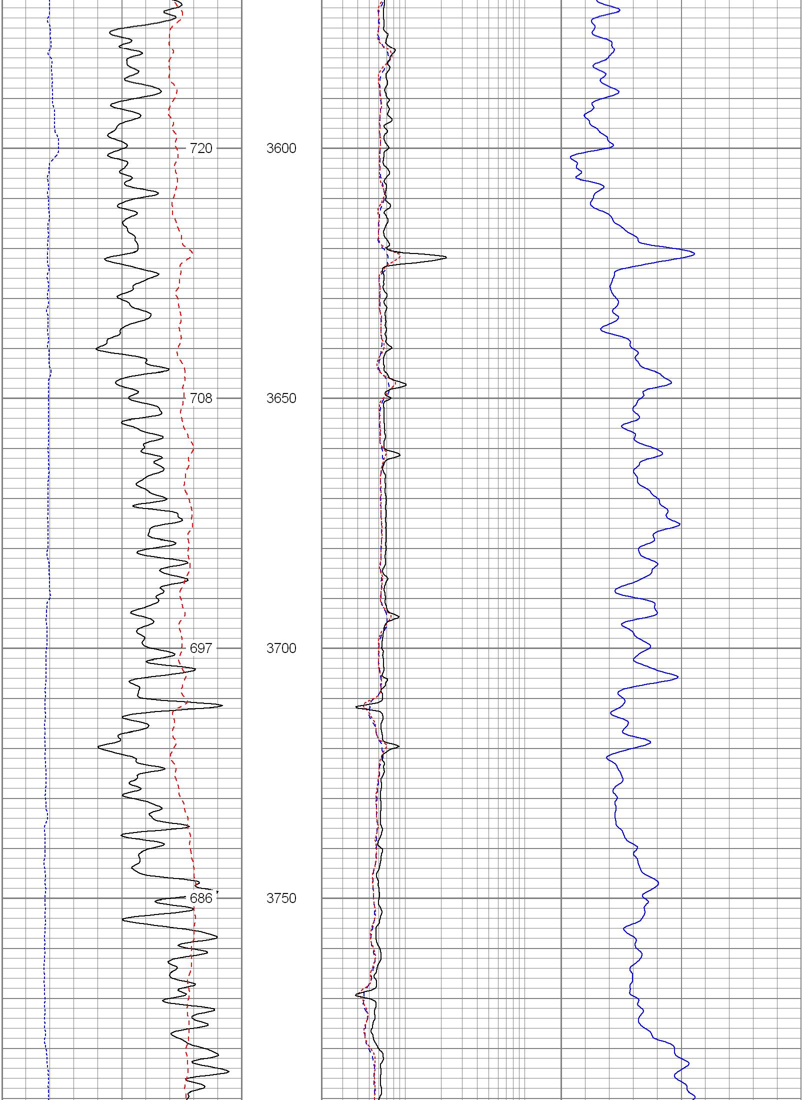
Database File: 11148.db
Dataset Pathname: pass3
Presentation Format: pdc1
Dataset Creation: Sat Nov 13 14:50:08 2010 by Log Open-Cased 100827
Charted by: Depth in Feet scaled 1:240

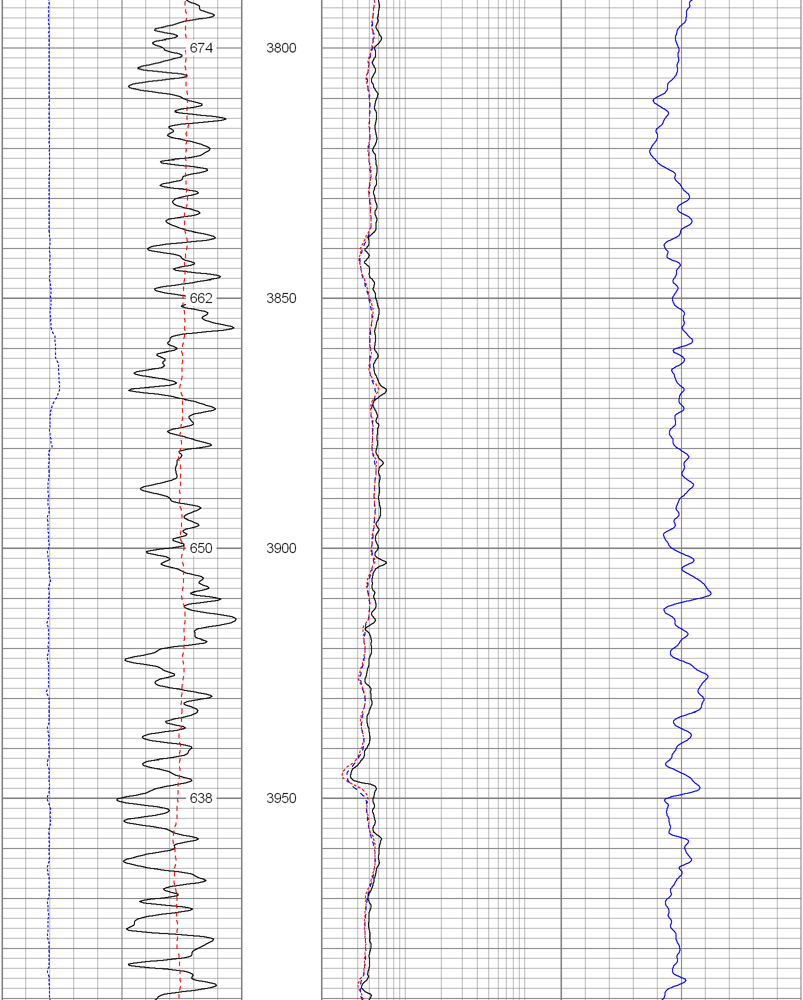
6 Density Caliper (in) 16
30 Gamma Ray (GAPI) 130
60 SP (mV) 160
ABHV (ft3)

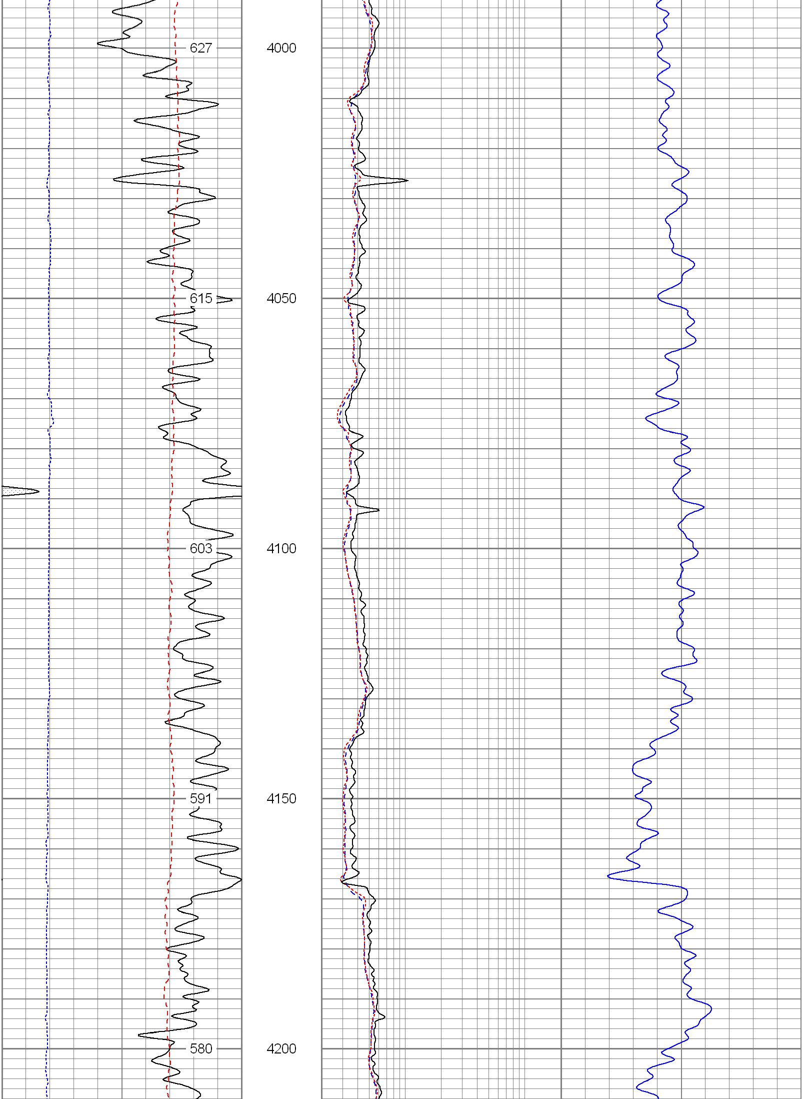
2 Deep Resistivity (Ohm-m) 200
2 Medium Resistivity (Ohm-m) 200
2 Shallow Resistivity (Ohm-m) 200

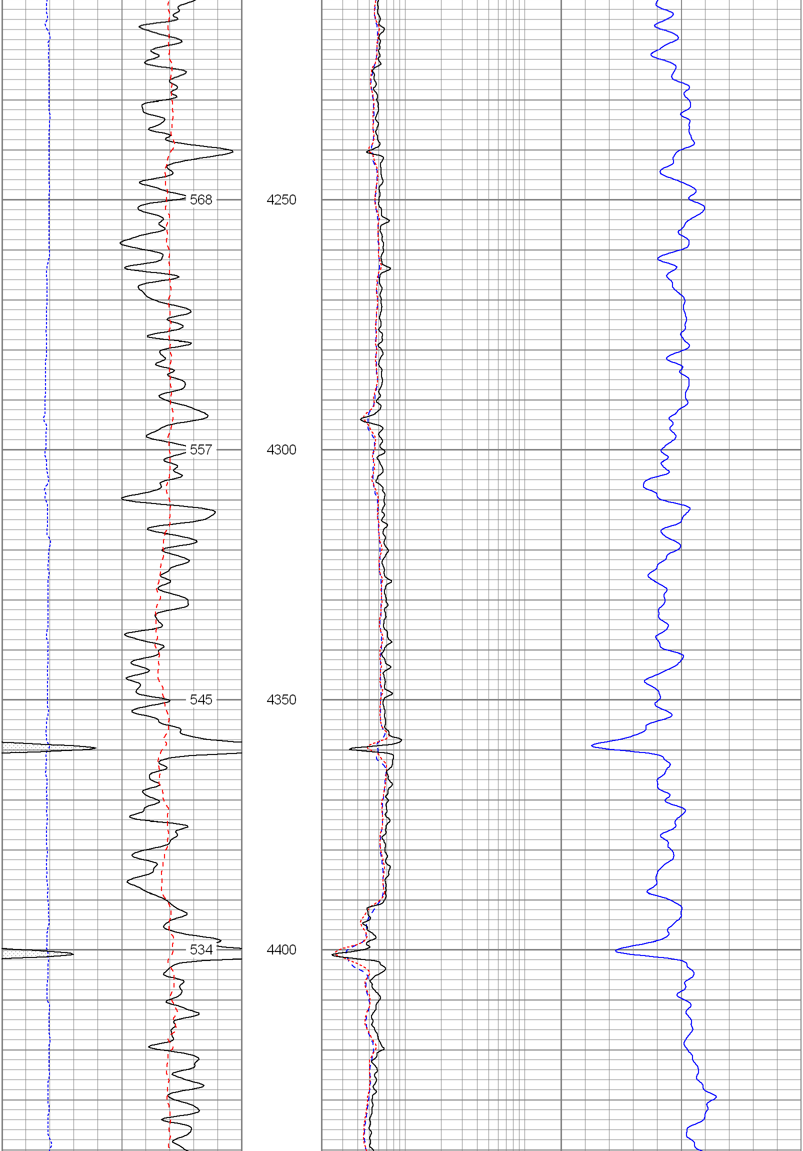
20 Density Porosity (pu) 0
20 Neutron Porosity (pu) 0

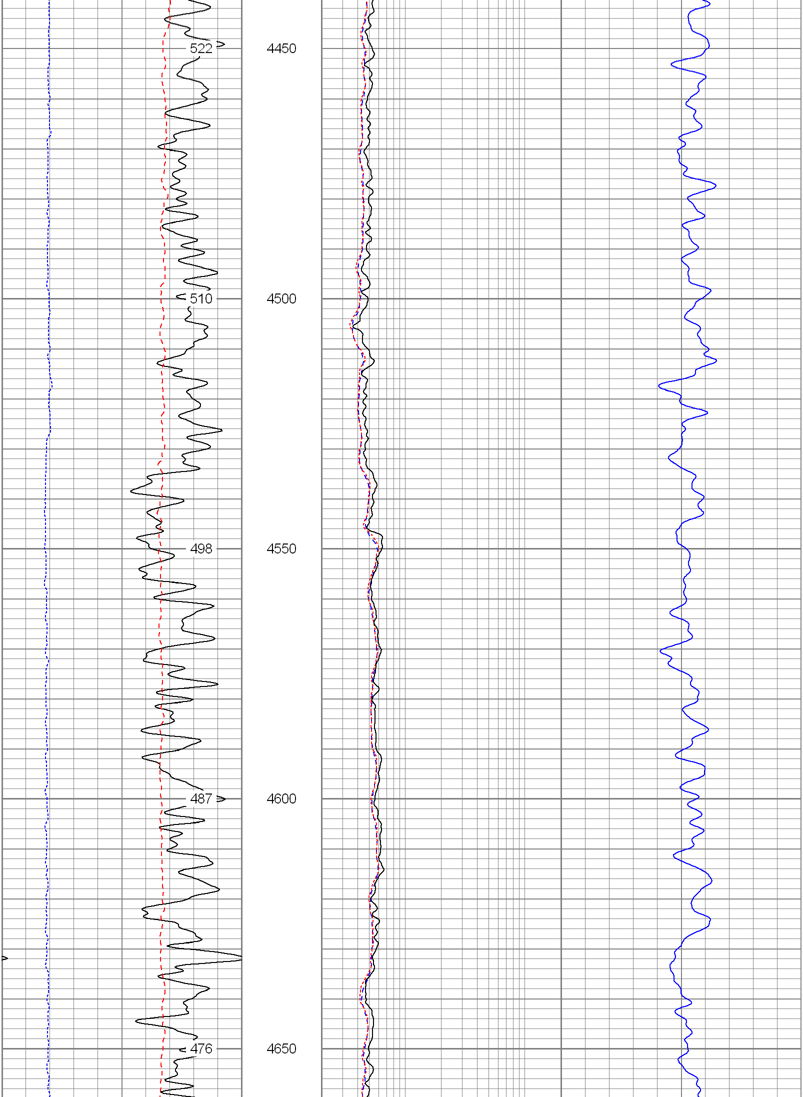


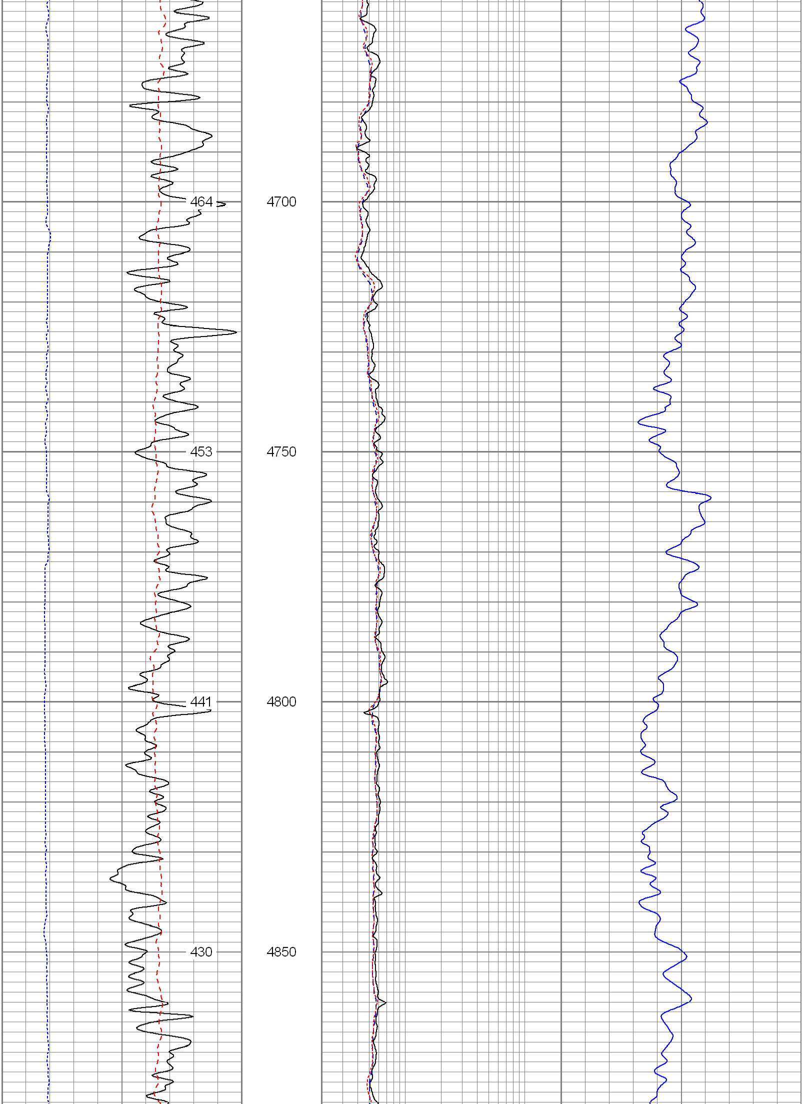


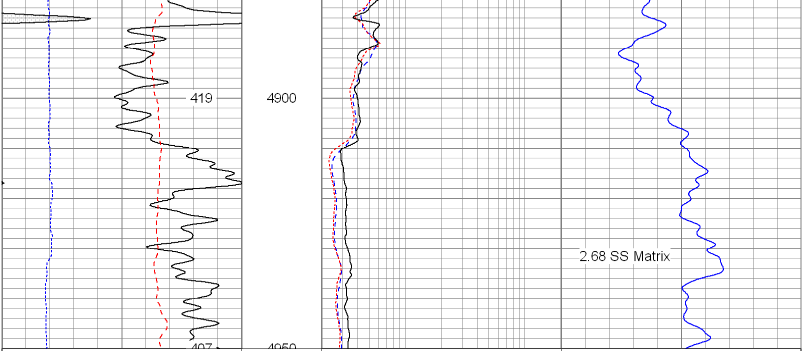












6	Density Caliper (in)	16	2	Deep Resistivity (Ohm-m)	200	20	Density Porosity (pu)	0
30	Gamma Ray (GAPI)	130	2	Medium Resistivity (Ohm-m)	200	20	Neutron Porosity (pu)	0
60	SP (mV)	160	2	Shallow Resistivity (Ohm-m)	200			
	ABHV (ft3)							

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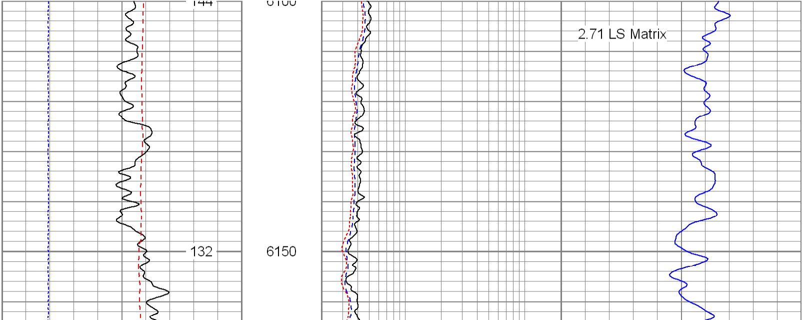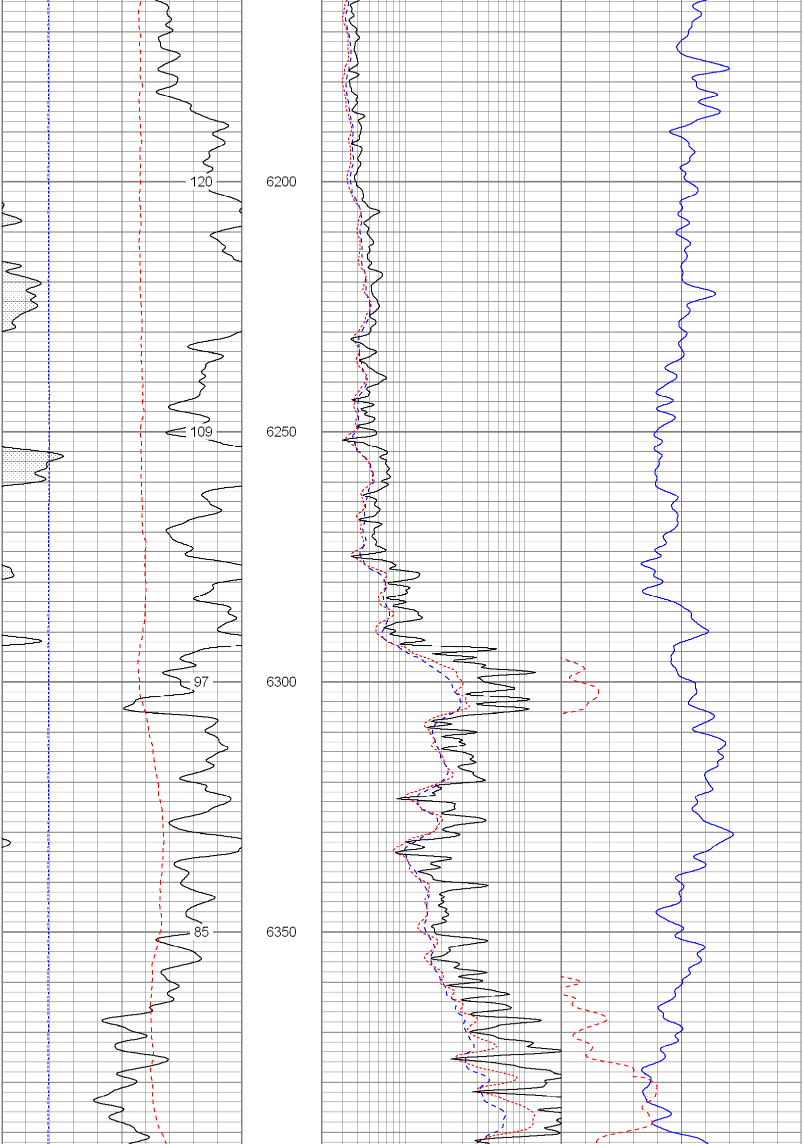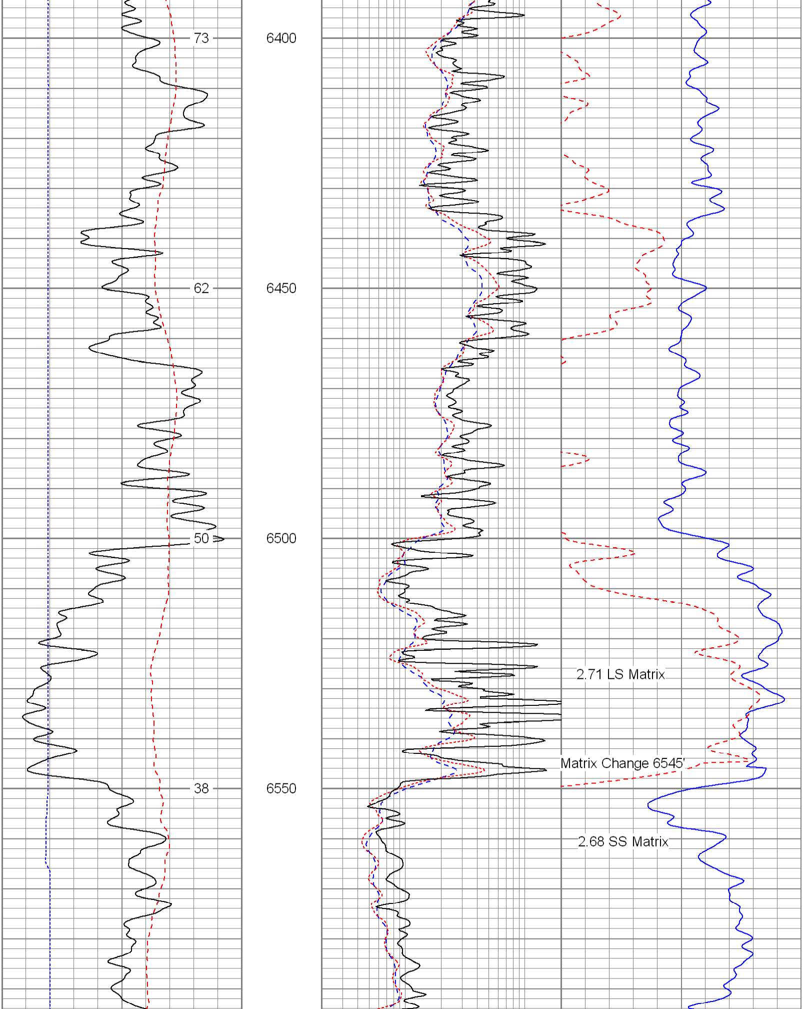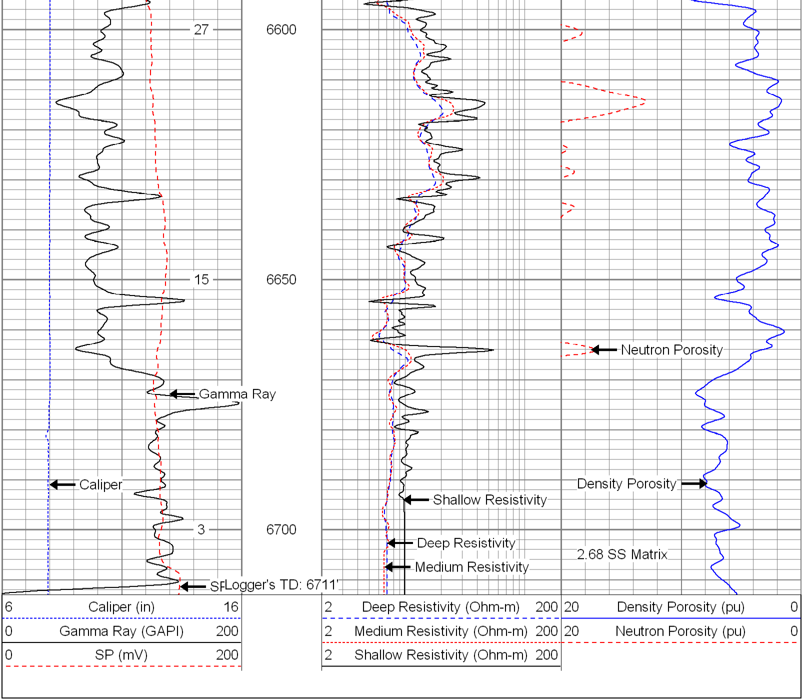6	Caliper (in)	16	2	Deep Resistivity (Ohm-m)	200	20	Density Porosity (pu)	0
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0	SP (mV)	200	2	Shallow Resistivity (Ohm-m)	200