Company Bayswater Exploration and Production LLC
Well Heckman 16-20
Field Wattenberg
County Weld
State Colorado

PIONEER

Pioneer Energy Services

HIGH RESOLUTION INDUCTION
COMPENSATED DENSITY
COMPENSATED NEUTRON

Company Bayswater Exploration and Production LLC
Well Heckman 16-20
Field Wattenberg
County Weld **State** Colorado

Location: API # : 05123376070000
SHL: 160' FNL & 726' FEL NENE
Sec. 29 TWP. 7N RGE. 67W
BHL: 690' FSL & 658' FEL SESE
SEC 20 TWP 7N RGE 67W

Other Services
None

Permanent Datum	GL	Elevation	4971
Log Measured From	KB		
Drilling Measured From	KB		

Elevation
K.B. 4984
D.F. 4984
G.L. 4971

Date	December 15, 2013		
Run Number	1		
Depth Driller	7332		
Depth Logger	7375		
Bottom Logged Interval	7375		
Top Log Interval	Casing		
Casing Driller	793		
Casing Logger	793		
Bit Size	7-7/8"		
Type Fluid in Hole	Chem Gel		
Density / Viscosity	9.5 / 59		
pH / Fluid Loss	8.5 / 9.6		
Source of Sample	Flowline		
Rm @ Meas. Temp	3.95 @ 50 F		
Rmf @ Meas. Temp	2.96 @ 50 F		
Rmc @ Meas. Temp	4.94 @ 50 F		
Source of Rmf / Rmc	Measure / Calc		
Rm @ BHT	0.96 @ 206 F		
Time Circulation Stopped	0600		
Time Logger on Bottom	1435		
Maximum Recorded Temperature	206 F		
Equipment Number	49		
Location	Brighton, CO		
Recorded By	Clint Christensen		
Witnessed By	Don Patton		

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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:	13390.db
Dataset Pathname:	final
Presentation Format:	pdc1
Dataset Creation:	Sun Dec 15 15:24:43 2013
Charted by:	Depth in Feet scaled 1:240

6 Density Caliper (in) 16

30 Gamma Ray (GAPI) 130

0 SP (mV) 100

ABHV (ft3)

2 Deep Resistivity (Ohm-m) 200

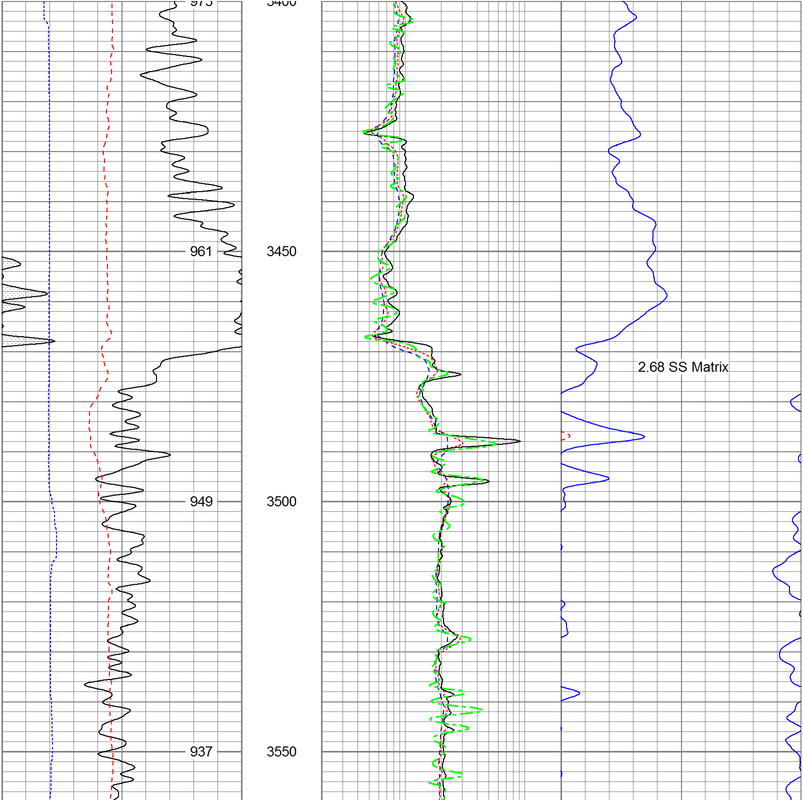
2 Medium Resistivity (Ohm-m) 200

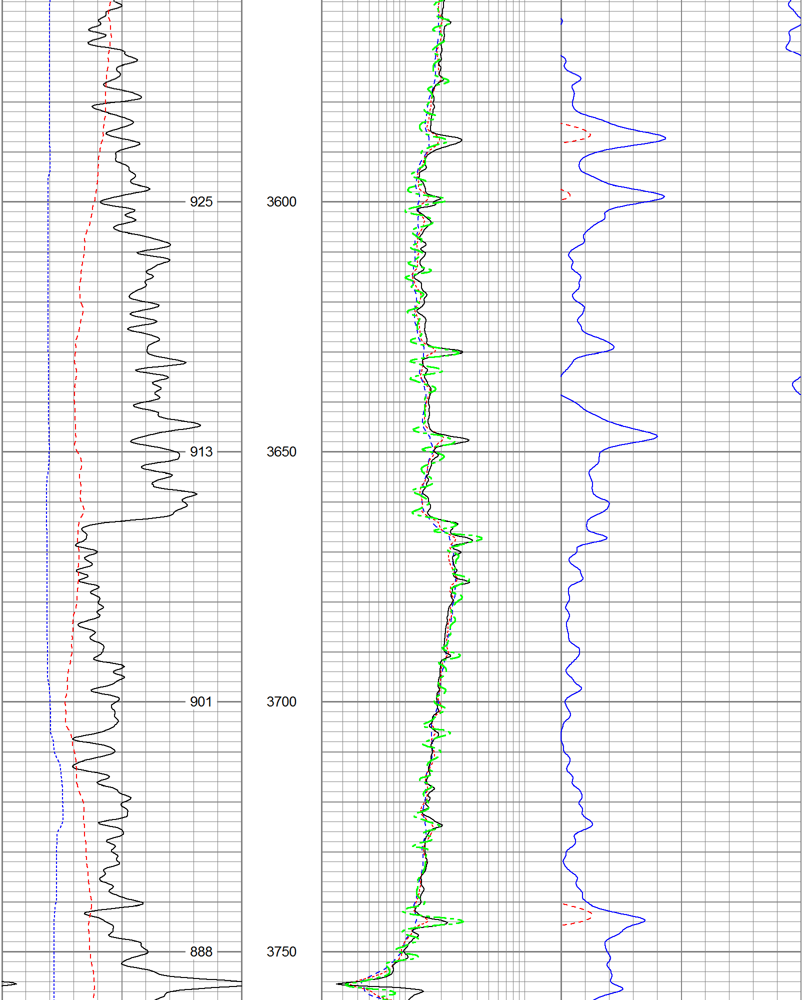
2 Shallow Resistivity (Ohm-m) 200

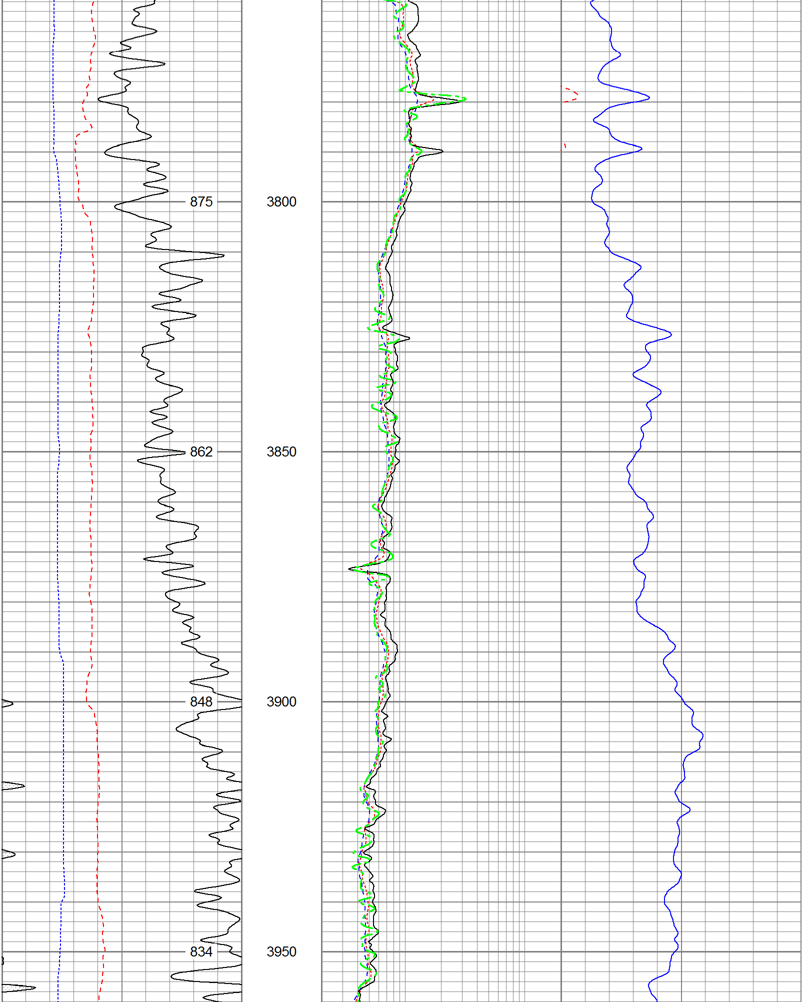
2 Rt (Ohm-m) 200

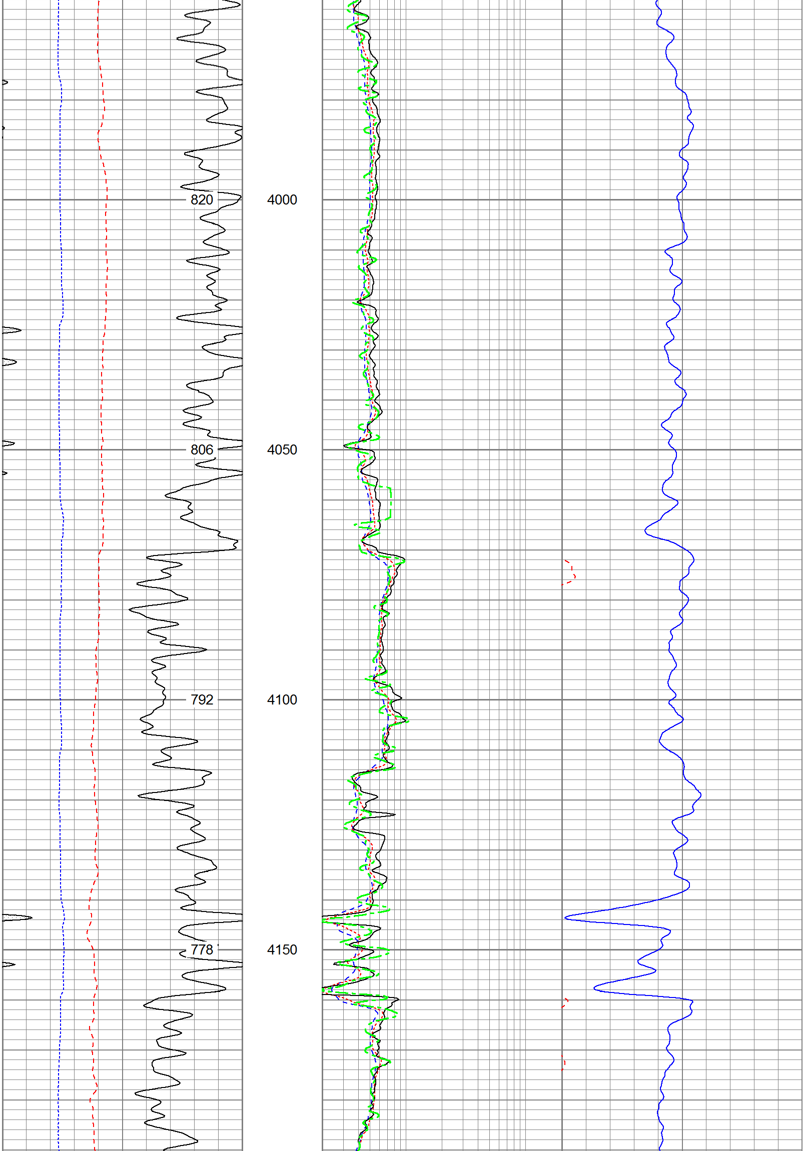
20 Density Porosity (pu) 0

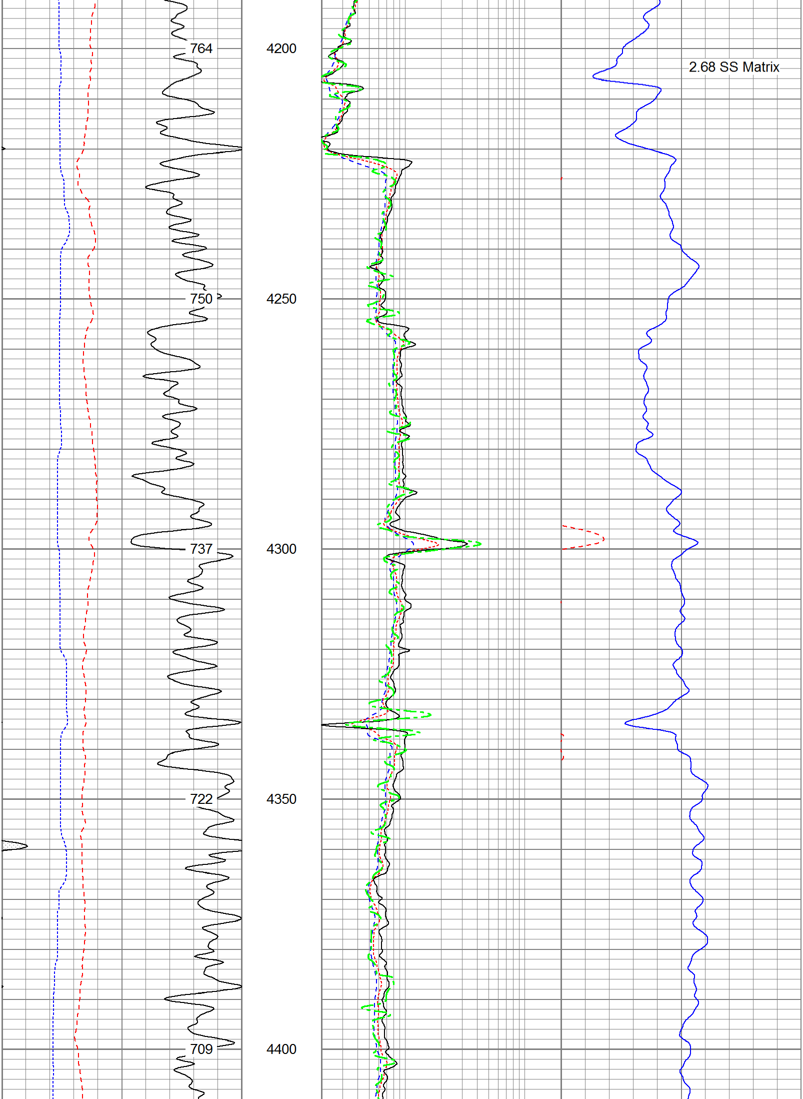
20 Neutron Porosity (pu) 0

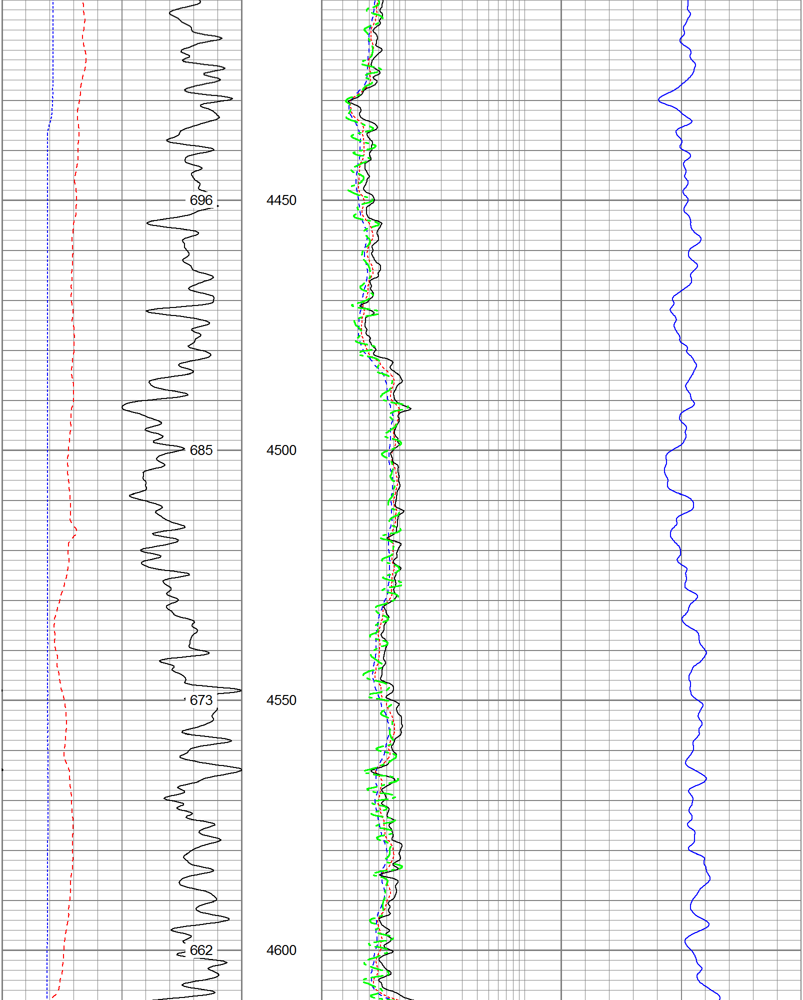


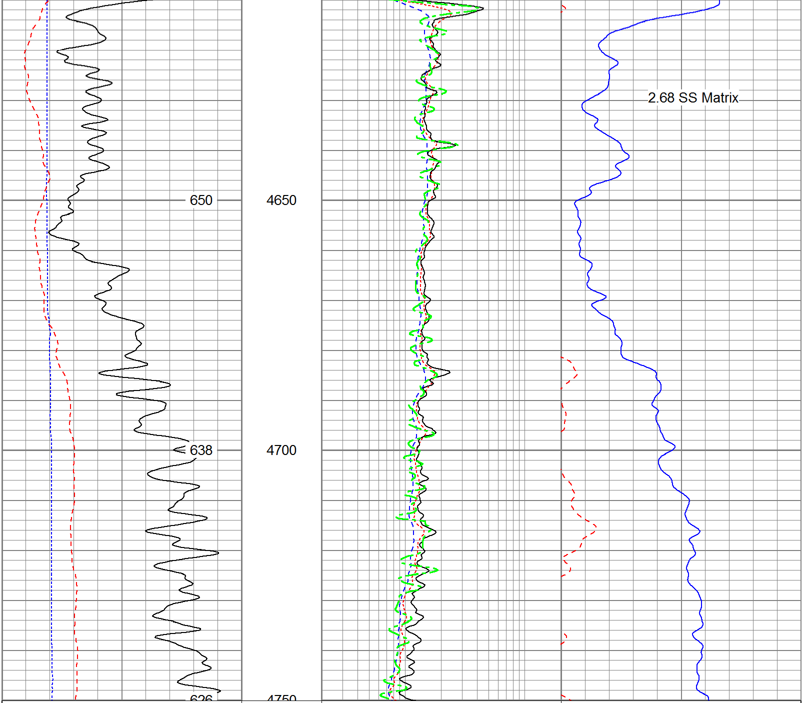












6	Density Caliper (in)	16	2	Deep Resistivity (Ohm-m)	200	20	Density Porosity (pu)	0
30	Gamma Ray (GAPI)	130	2	Medium Resistivity (Ohm-m)	200	20	Neutron Porosity (pu)	0
0	SP (mV)	100	2	Shallow Resistivity (Ohm-m)	200			
	ABHV (ft3)		2	Rt (Ohm-m)	200			

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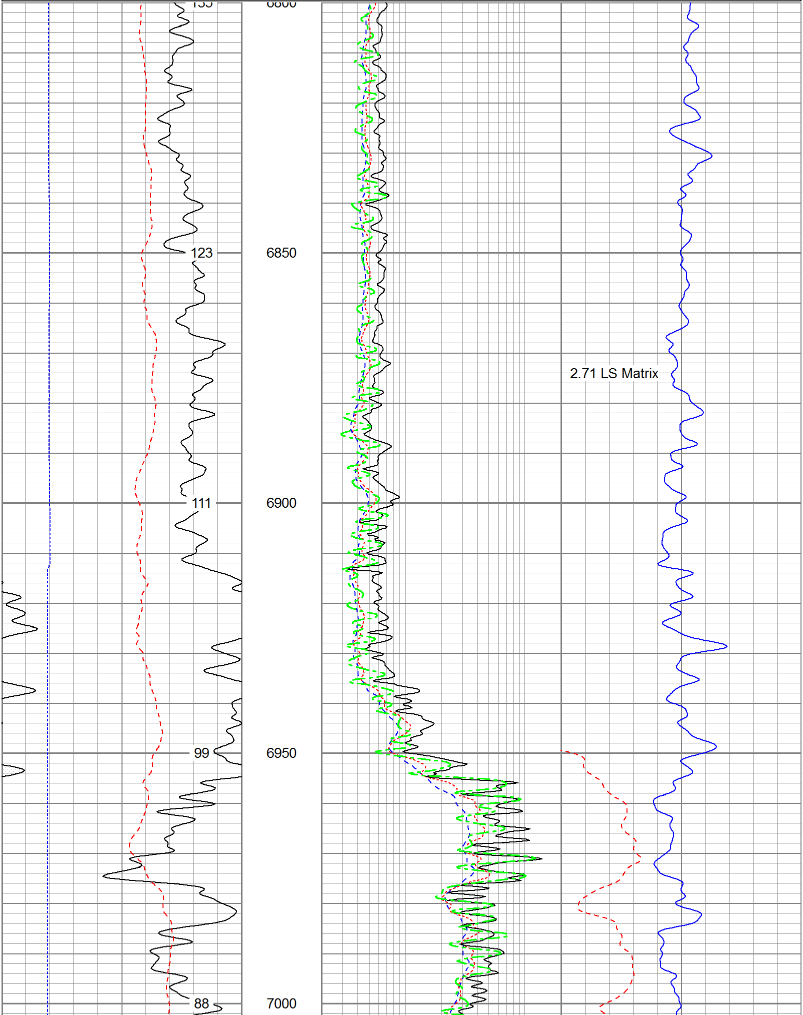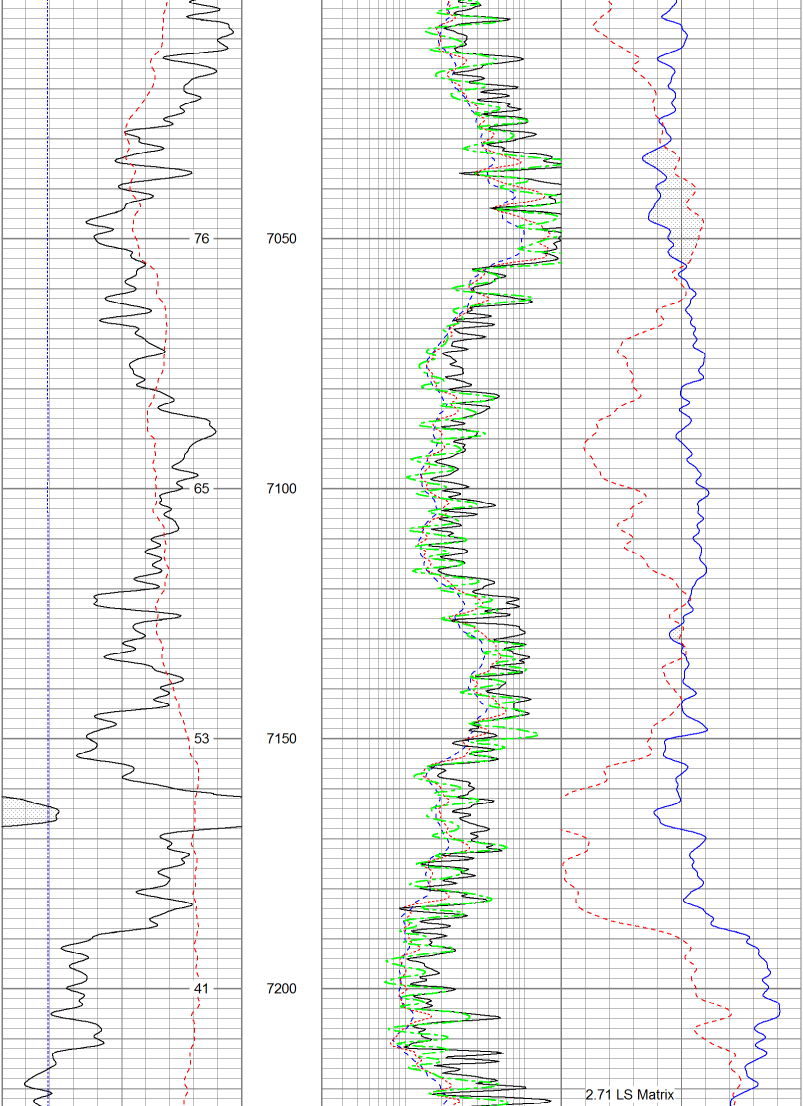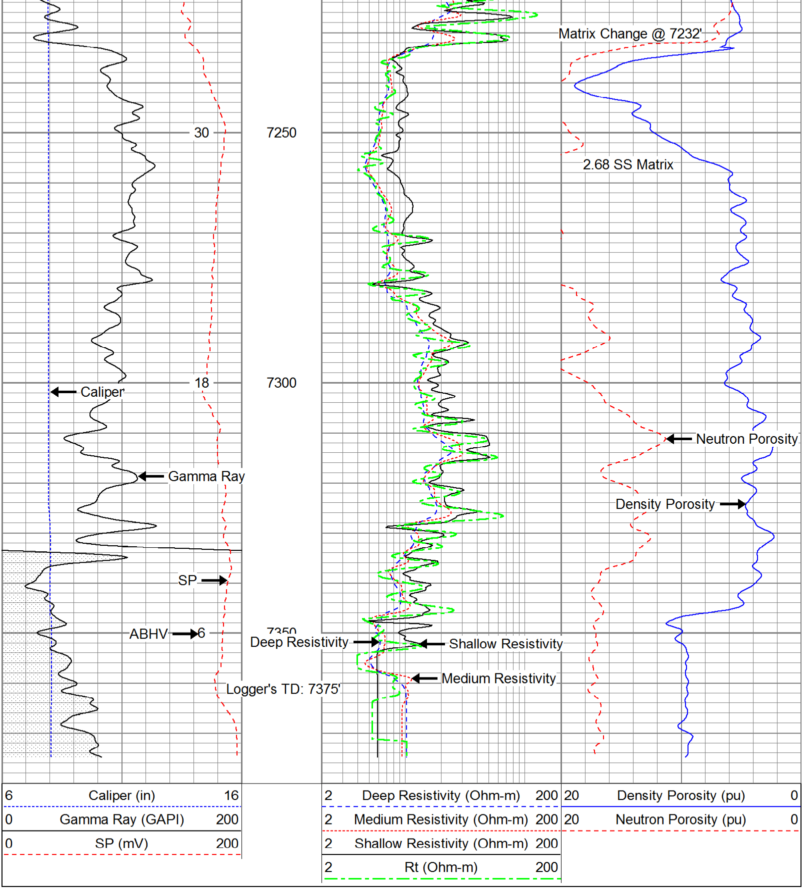6	Caliper (in)	16	2	Deep Resistivity (Ohm-m)	200	20	Density Porosity (pu)	0
0	Gamma Ray (GAPI)	200	2	Medium Resistivity (Ohm-m)	200	20	Neutron Porosity (pu)	0
0	SP (mV)	200	2	Shallow Resistivity (Ohm-m)	200			
			2	Rt (Ohm-m)	200