PSI
PHOENIX SURVEYS, INC.

DUAL INDUCTION
GUARD LOG
GAMMA RAY

Company
Well
Field
County
State/Prv

Company	Noble Energy Production Inc.
Well	Ava State C36-24
Field	Wattenberg
County	Weld
State/Province	Colorado

Location
1275' FSL & 2586' FEL
SW SE
Sec. 36, Twp. 4N, Rge. 64W

Other Services
Density
Neutron
Micro Log

Permanent Datum	GL	Elevation	4741
Log Measured From	KB		
Drilling Measured From	KB		

Elevation
K.B. 4751
D.F. 4750
G.L. 4741

Date	April 12, 2008		
Run Number	1		
Depth Driller	6989		
Depth Logger	6991		
Bottom Logged Interval	6991		
Top Log Interval	Casing		
Casing Driller	602		
Casing Logger	602		
Bit Size	7-7/8"		
Type Fluid in Hole	Chem Gel		
Density / Viscosity	9.2/ 54		
pH / Fluid Loss	9.5 / 10.0		
Source of Sample	Flowline		
Rm @ Meas. Temp	3.42 @ 80° F		
Rmf @ Meas. Temp	3.68 @ 80° F		
Rmc @ Meas. Temp	4.12 @ 80° F		
Source of Rmf / Rmc	Measure / Calc		
Rm @ BHT	1.12 @ 198° F		
Time Circulation Stopped	1:00		
Time Logger on Bottom	10:00		
Maximum Recorded Temperature	198° F		
Equipment Number	4800		
Location	Brighton, CO		
Recorded By	Peter Dhaliwal		
Witnessed By	Rusty Donham		

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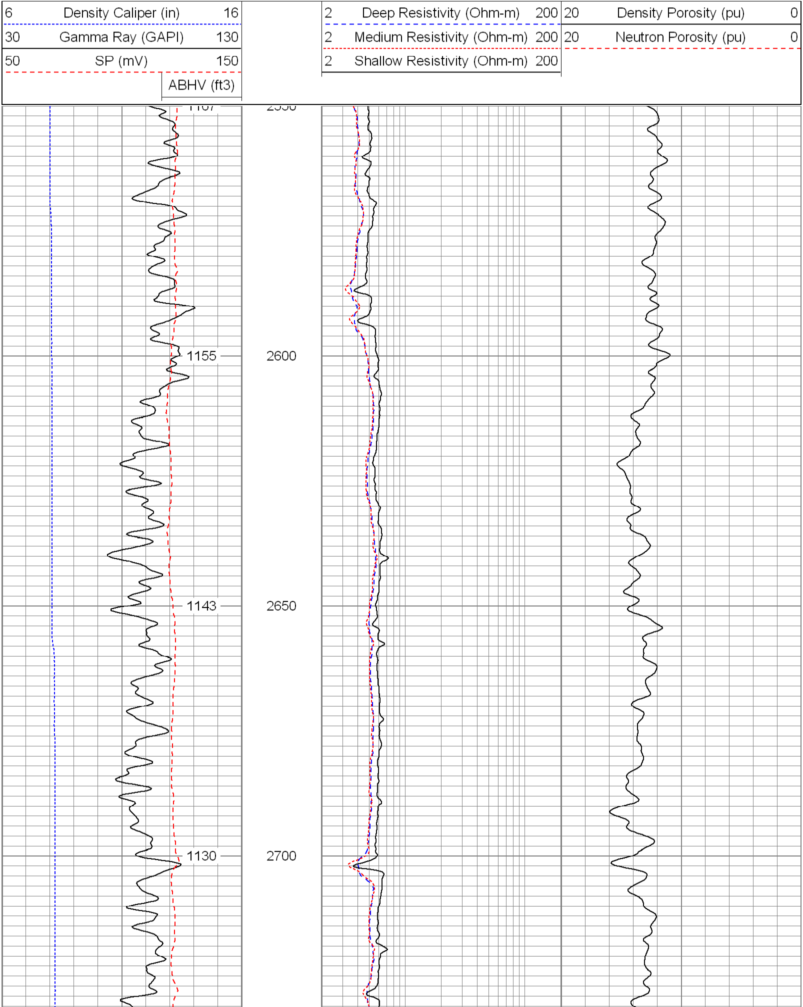
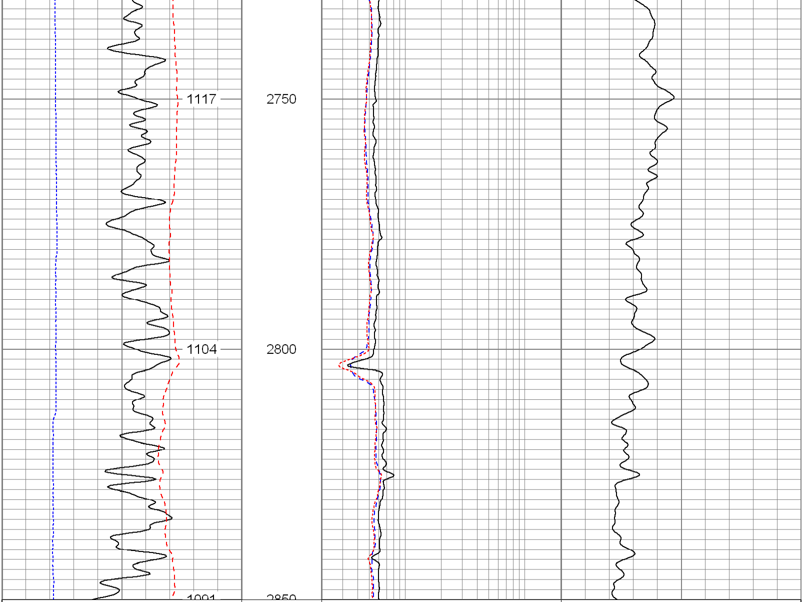
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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 2
Thank you for using Phoenix Surveys!!
API #: 05-123-25675-00

Database File:	8573.db
Dataset Pathname:	pass3
Presentation Format:	pdc1
Dataset Creation:	Sat Apr 12 10:06:29 2008 by Log Open-Cased 070814
Charted by:	Depth in Feet scaled 1:240





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
50 SP (mV) 150	2 Shallow Resistivity (Ohm-m) 200	
ABHV (ft3)		

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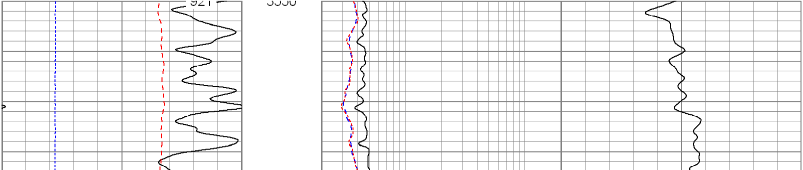
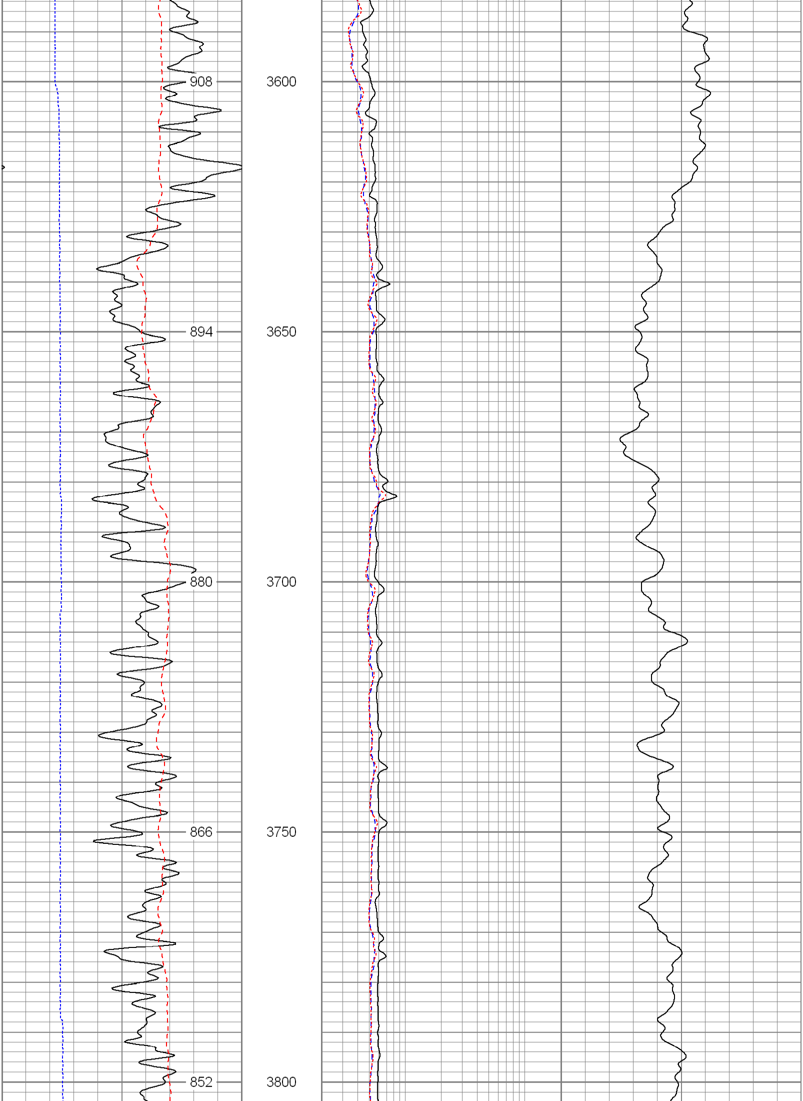
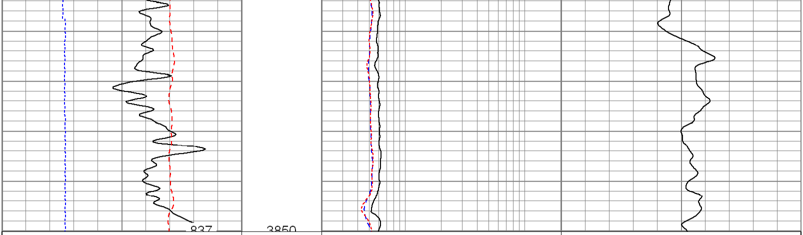


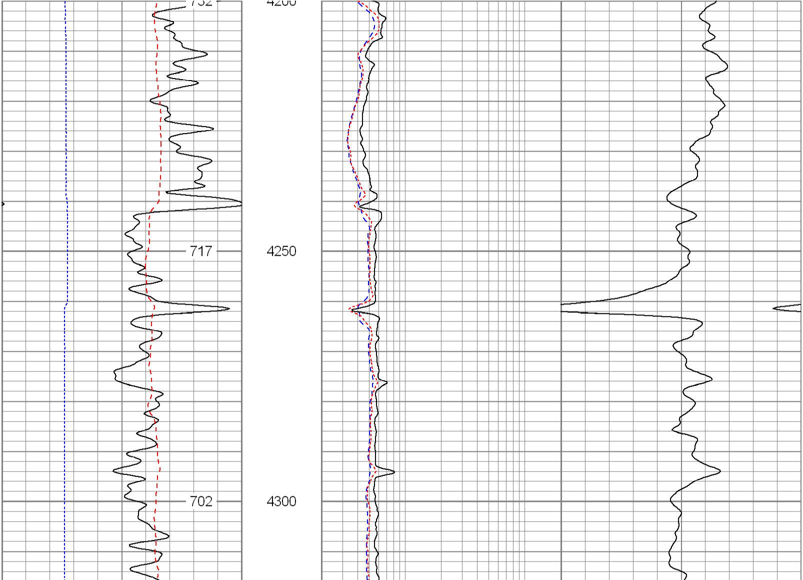


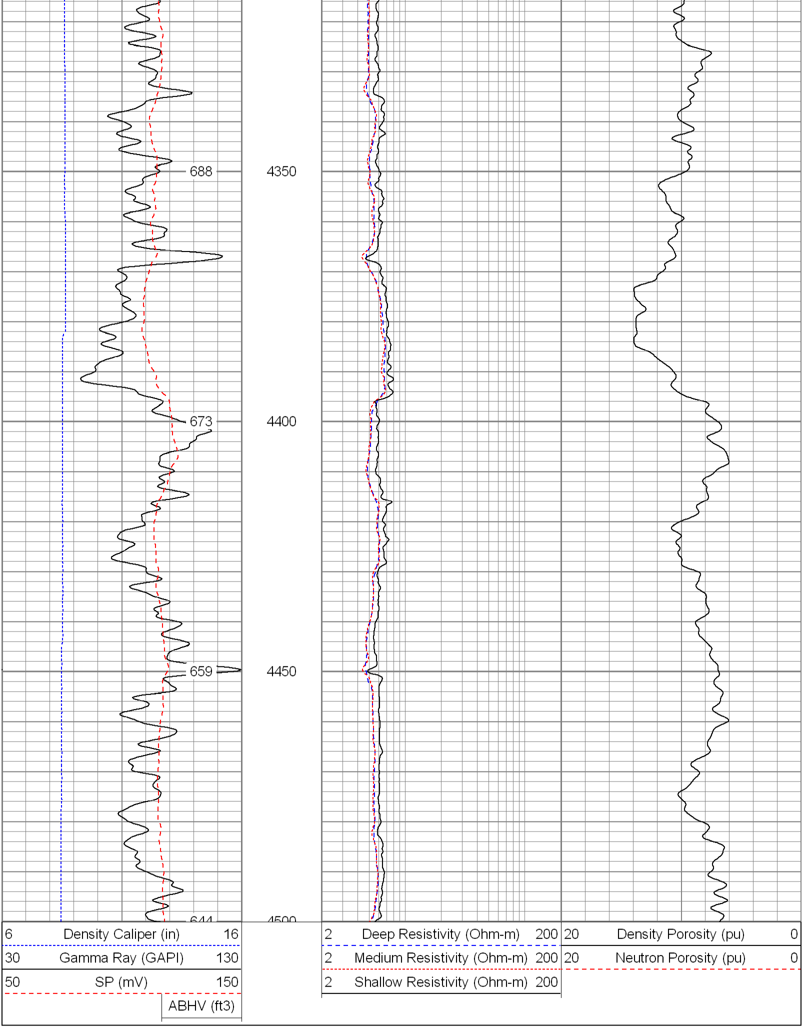


6	Density Caliper (in)	16	2	Deep Resistivity (Ohm-m)	200	20	Density Porosity (pu)	0
30	Gamma Ray (GAPI)	130	2	Medium Resistivity (Ohm-m)	200	20	Neutron Porosity (pu)	0
50	SP (mV)	150	2	Shallow Resistivity (Ohm-m)	200			
	ABHV (ft3)							

Database File: 8573.db
Dataset Pathname: pass3
Presentation Format: pdc1
Dataset Creation: Sat Apr 12 10:06:29 2008 by Log Open-Cased 070814
Charted by: Depth in Feet scaled 1:240

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
50	SP (mV)	150	2	Shallow Resistivity (Ohm-m)	200			
	ABHV (ft3)							





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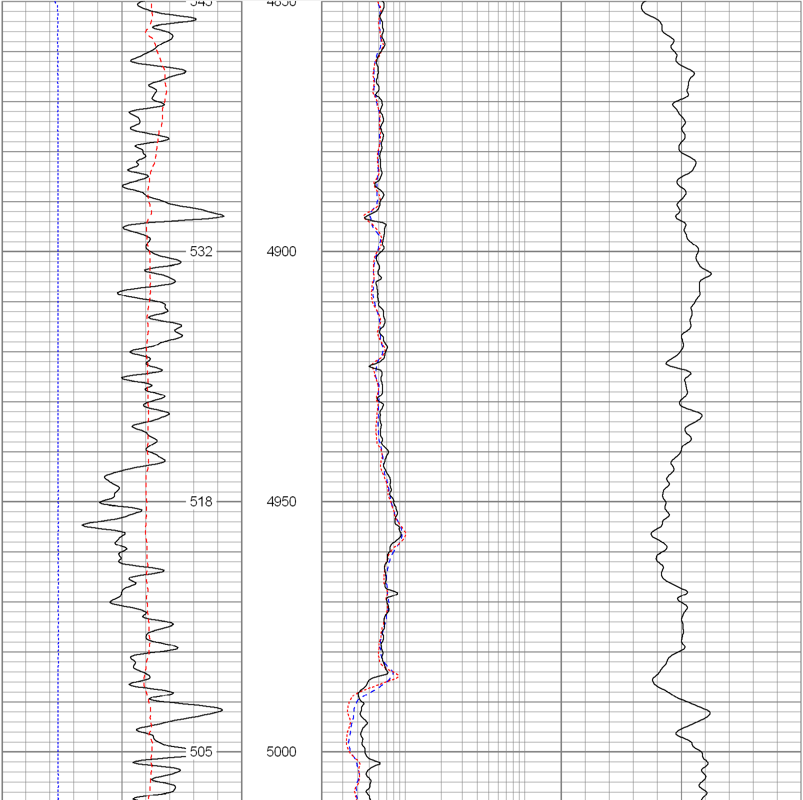
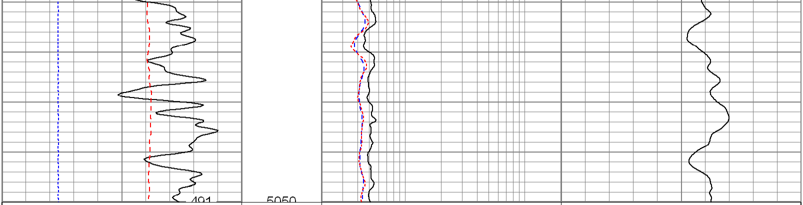
Dataset Pathname:	pass3
Presentation Format:	pdc1
Dataset Creation:	Sat Apr 12 10:06:29 2008 by Log Open-Cased 070814
Charted by:	Depth in Feet scaled 1:240

6 Density Caliper (in) 16
30 Gamma Ray (GAPI) 130
50 SP (mV) 150
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
30 Gamma Ray (GAPI) 130
50 SP (mV) 150
ABHV (ft3)

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

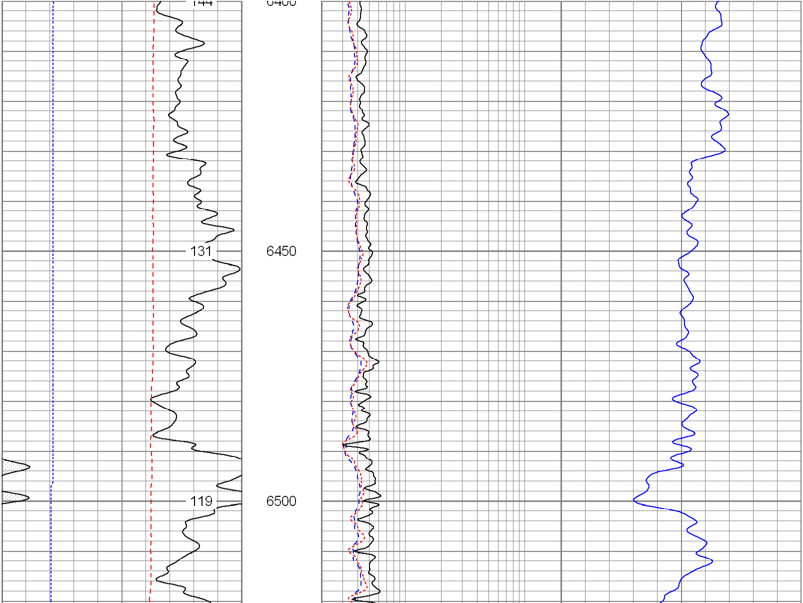
20 Density Porosity (pu) 0
20 Neutron Porosity (pu) 0

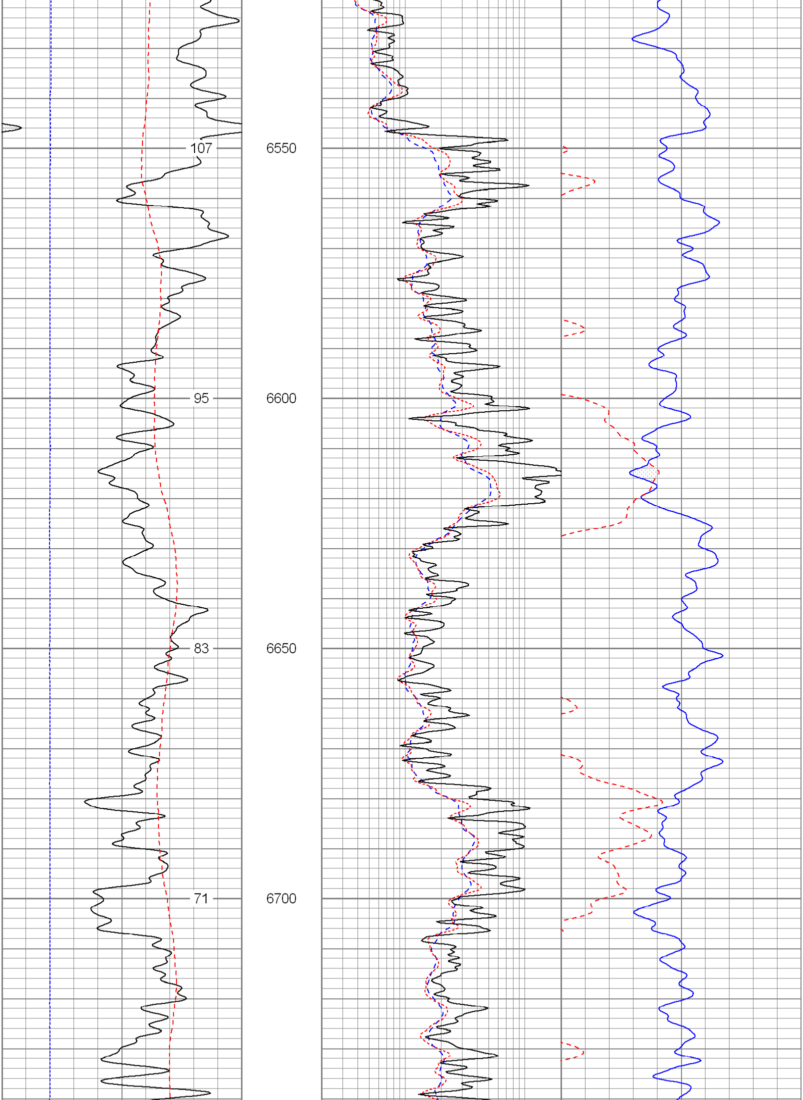
Database File:	8573.db
Dataset Pathname:	final
Presentation Format:	pdc
Dataset Creation:	Sat Apr 12 10:54:03 2008
Charted by:	Depth in Feet scaled 1:240

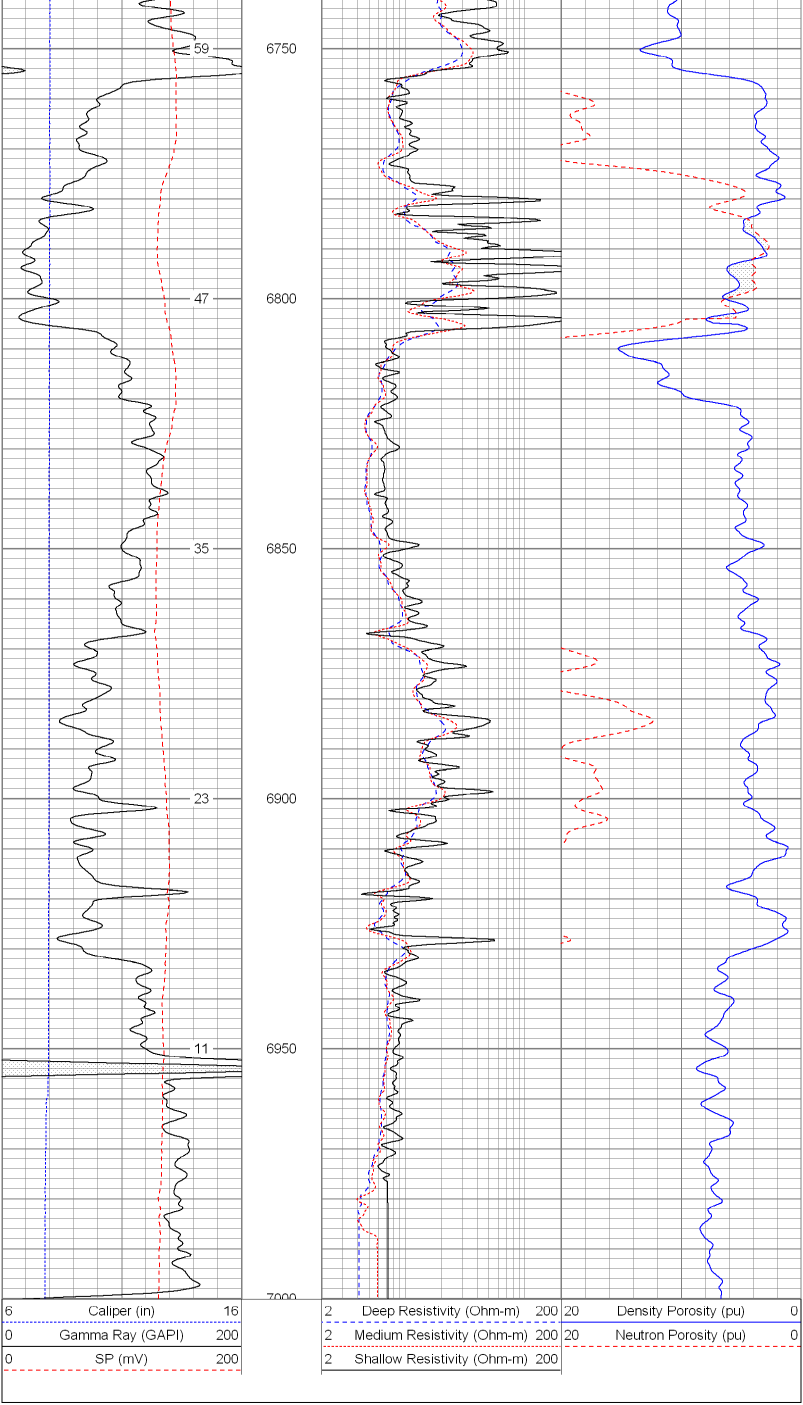
6 Caliper (in) 16
0 Gamma Ray (GAPI) 200
0 SP (mV) 200

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

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






59
47
35
23
11
6750
6800
6850
6900
6950
7000
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
20 Density Porosity (pu) 0
20 Neutron Porosity (pu) 0