PHOENIX SURVEYS, INC.

COMPENSATED DENSITY
COMPENSATED NEUTRON
MICROLOG

Company
Well
Field
County
State/Prv

Company Noble Energy Inc.
Well Auxier USX ZN 5-19
Field Wattenberg
County Arapahoe **State/Province** Colorado

Location
1257' FNL & 1320' FWL
NW NW
Sec. 5, Twp. 4S, Rge. 63W

Other Services
Induction

Elevation
K.B. 5566
D.F. 5565
G.L. 5552

Permanent Datum	GL	Elevation	5552
Log Measured From	KB		
Drilling Measured From	KB		

Date	June 6, 2008		
Run Number	1		
Depth Driller	7949		
Depth Logger	7952		
Bottom Logged Interval	7932		
Top Log Interval	1300		
Casing Driller	659		
Casing Logger	Not Logged		
Bit Size	7-7/8"		
Type Fluid in Hole	Chem Gel		
Density / Viscosity	9.7 / 120		
pH / Fluid Loss	7.0 / 8.0		
Source of Sample	Flowline		
Rm @ Meas. Temp	3.51 @ 79° F		
Rmf @ Meas. Temp	2.80 @ 79° F		
Rmc @ Meas. Temp	4.22 @ 79° F		
Source of Rmf / Rmc	Measure / Calc		
Rm @ BHT	1.15 @ 197° F		
Time Circulation Stopped	1800		
Time Logger on Bottom	0010		
Maximum Recorded Temperature	197° F		
Equipment Number	4800		
Location	Brighton, CO		
Recorded By	Ian Harris		
Witnessed By	Brody Hansen		

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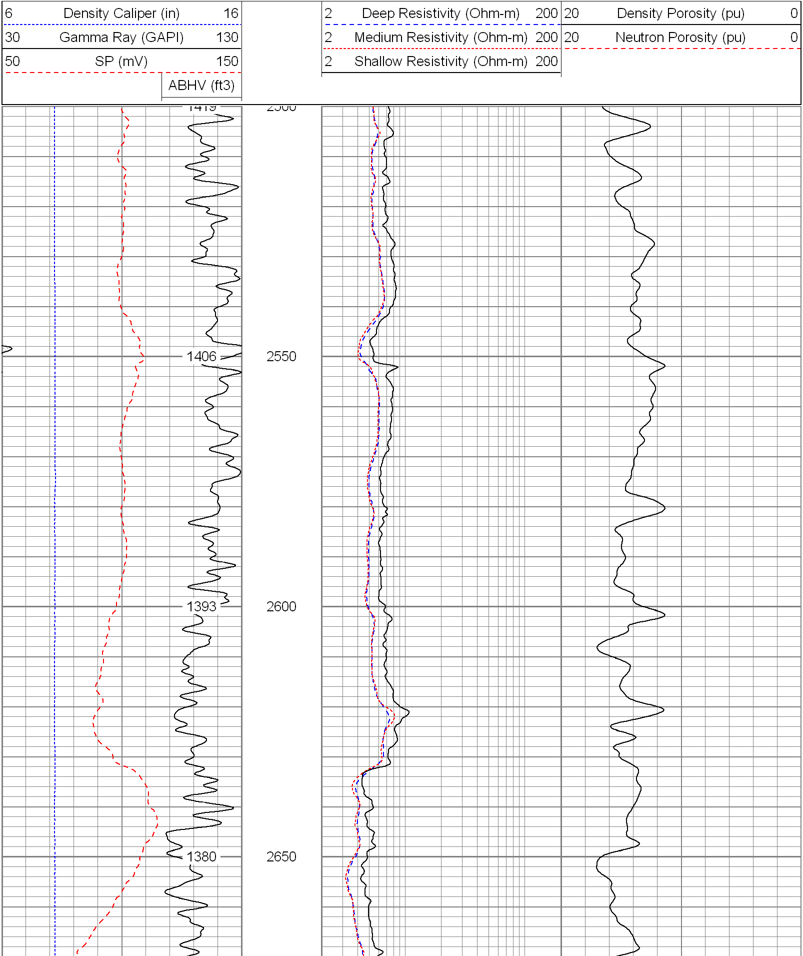
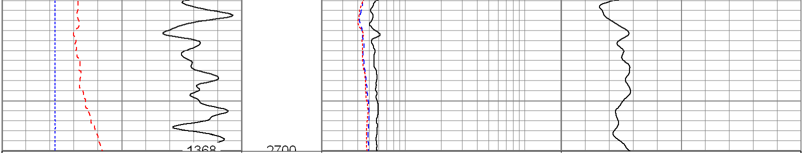
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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 128
Thank you for using Phoenix Surveys!!
API #: 05-005-07137-00

Database File: 8718.db
Dataset Pathname: pass5
Presentation Format: pdc1
Dataset Creation: Sat Jun 07 00:11:58 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)

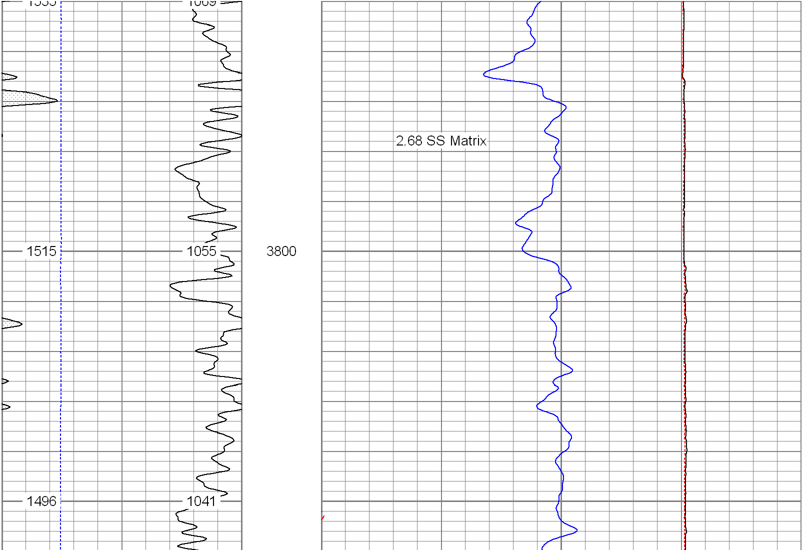
2 Deep Resistivity (Ohm-m) 200
2 Medium Resistivity (Ohm-m) 200
2 Shallow Resistivity (Ohm-m) 200

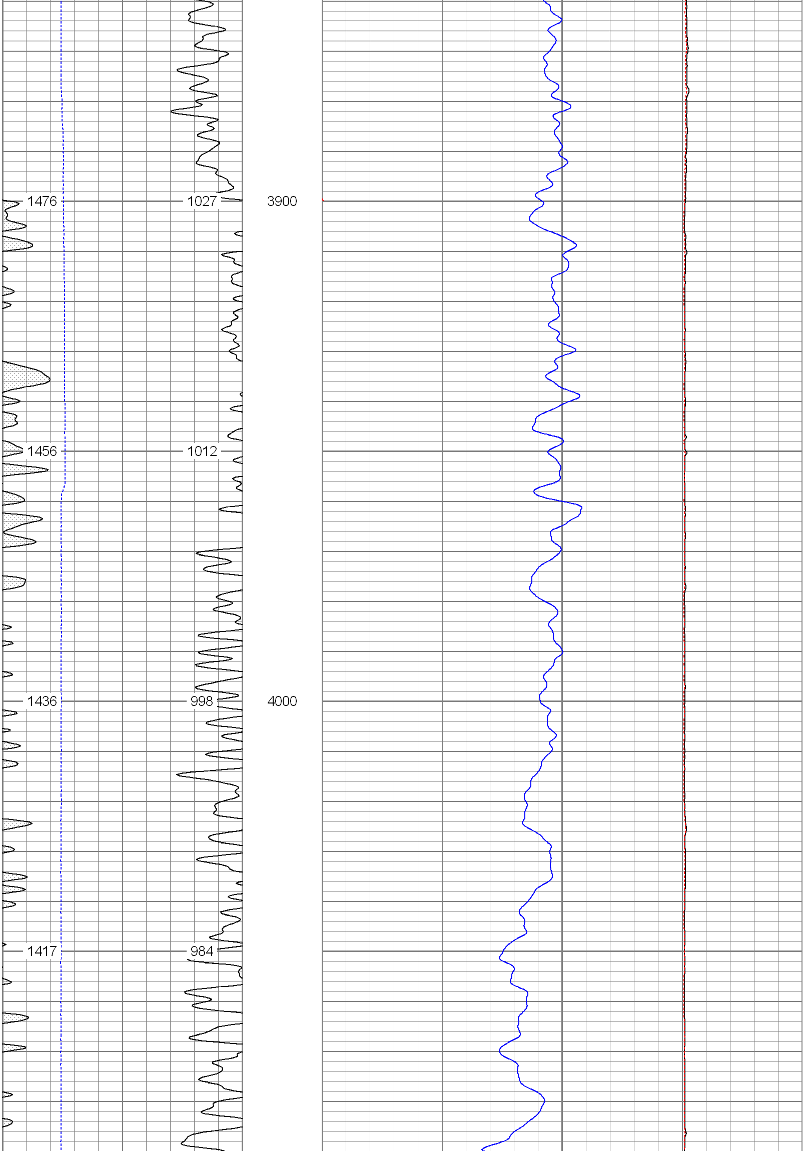
20 Density Porosity (pu) 0
20 Neutron Porosity (pu) 0

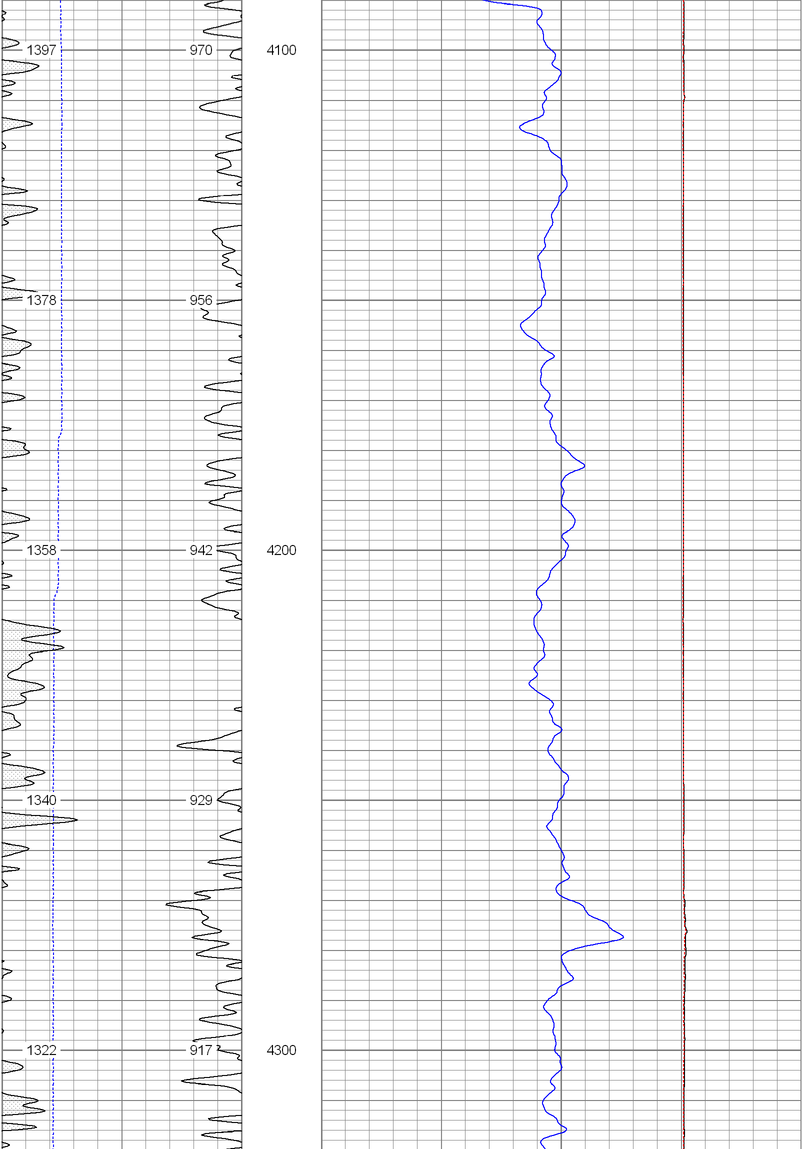
Database File: 8718.db
Dataset Pathname: pass5
Presentation Format: noble1
Dataset Creation: Sat Jun 07 00:11:58 2008 by Log Open-Cased 070814
Charted by: Depth in Feet scaled 1:240

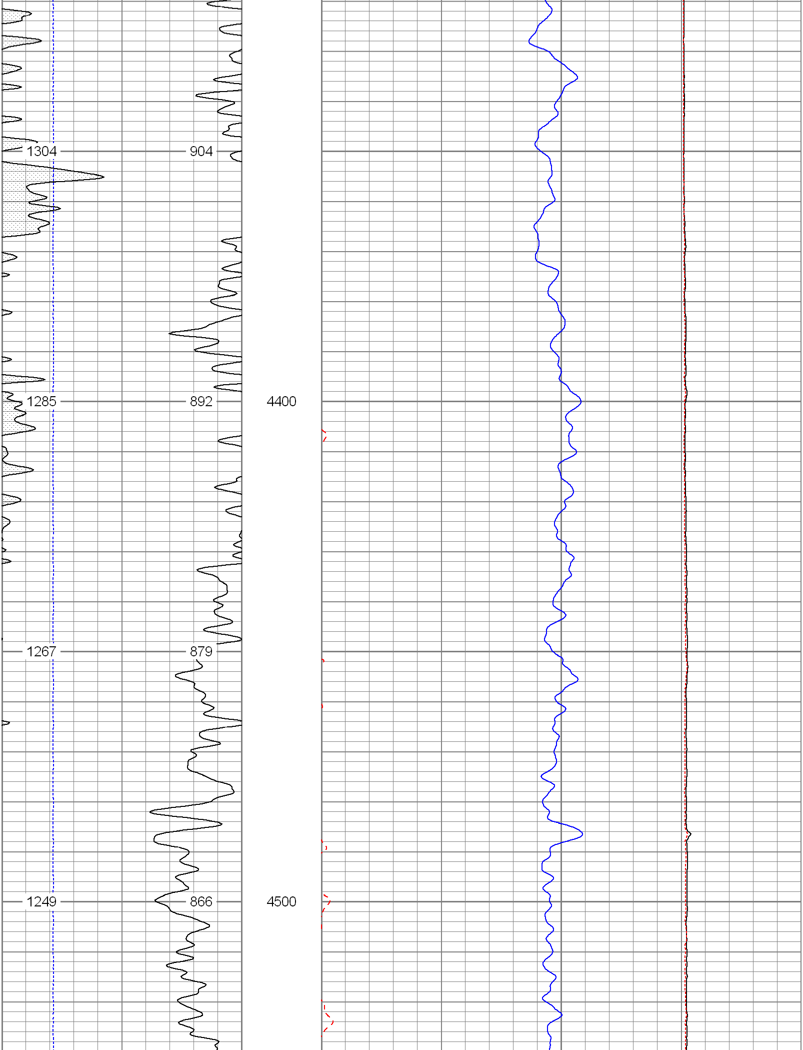
6 Caliper (in) 16
30 Gamma Ray (GAPI) 130

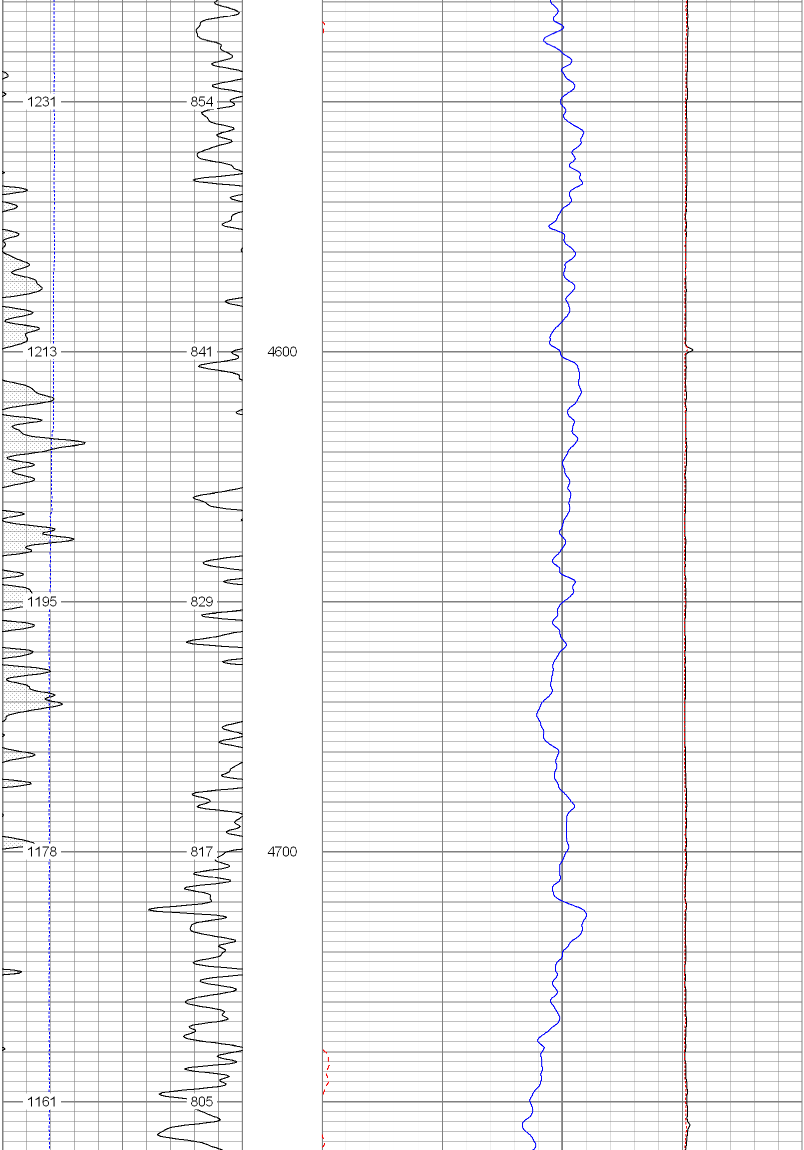
30 Density Porosity (%) (pu) -10
30 Neutron Porosity (%) (pu) -10
-75 Microinverse (1") (Ohm-m) 75
-75 Micronormal (2") (Ohm-m) 75

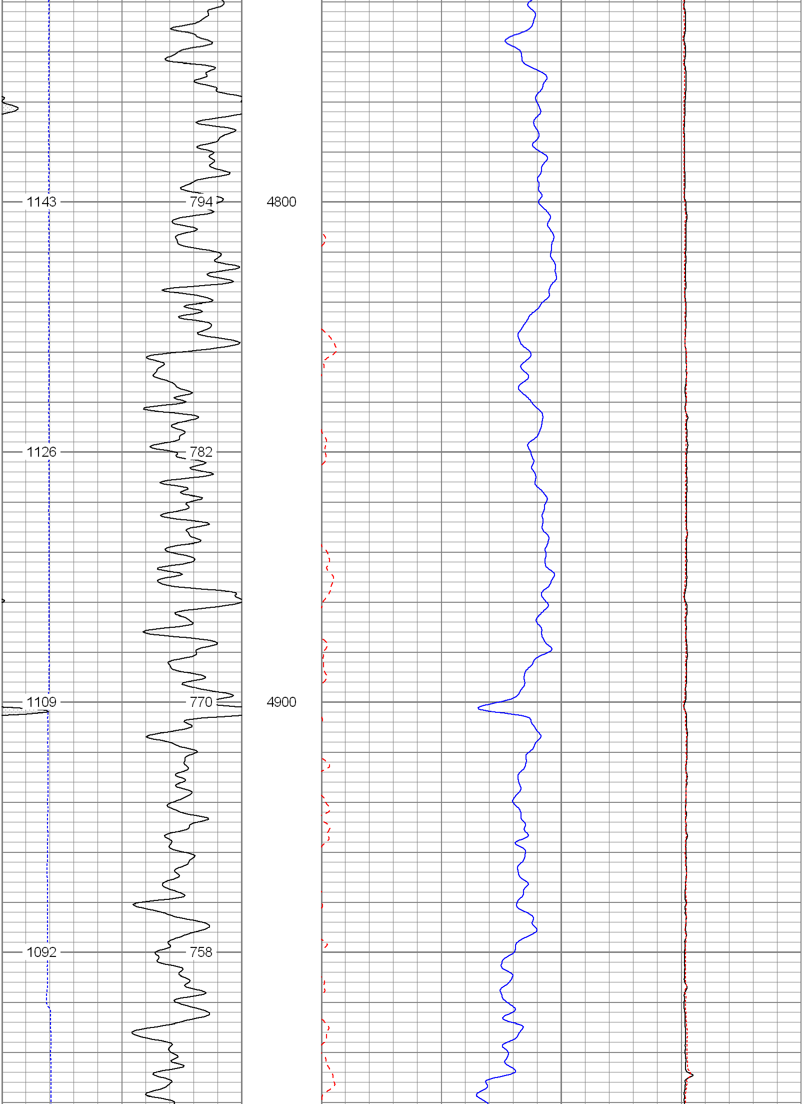


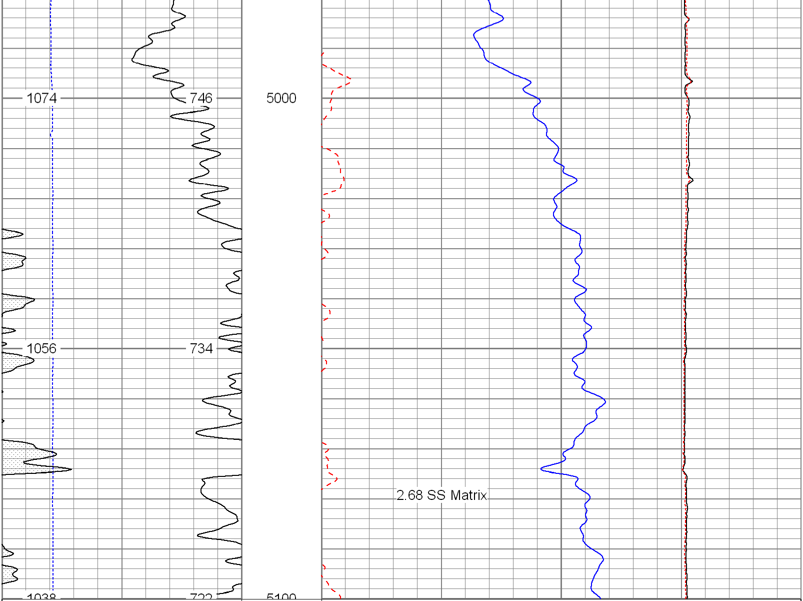












6 Caliper (in) 16

30 Gamma Ray (GAPI) 130

30 Density Porosity (%) (pu) -10

30 Neutron Porosity (%) (pu) -10

-75 Microinverse (1") (Ohm-m) 75

-75 Micronormal (2") (Ohm-m) 75

Database File:	8718.db
Dataset Pathname:	pass5.1
Presentation Format:	pdc
Dataset Creation:	Sat Jun 07 00:39:26 2008 by Calc Open-Cased 070814
Charted by:	Depth in Feet scaled 1:240

6 Caliper (in) 16

0 Gamma Ray (GAPI) 200

0 SP (mV) 200

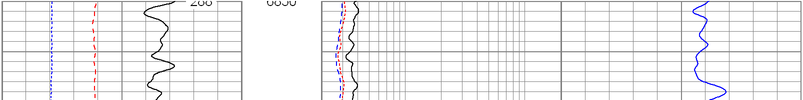
2 Deep Resistivity (Ohm-m) 200

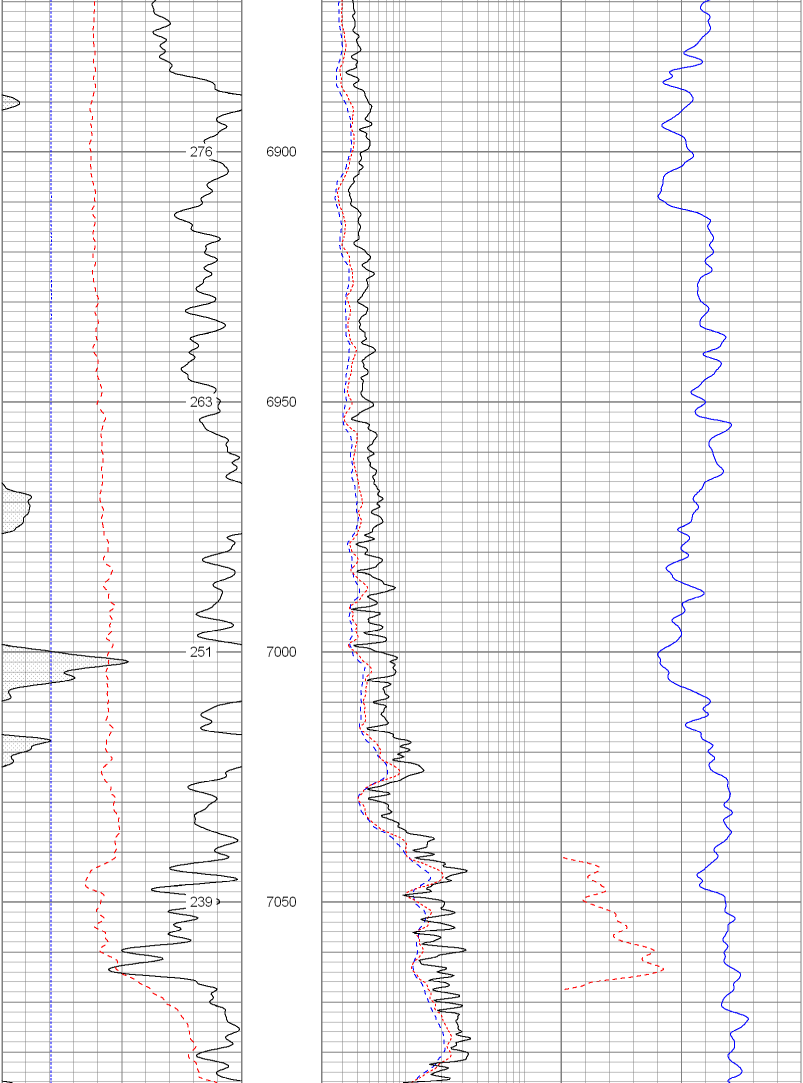
2 Medium Resistivity (Ohm-m) 200

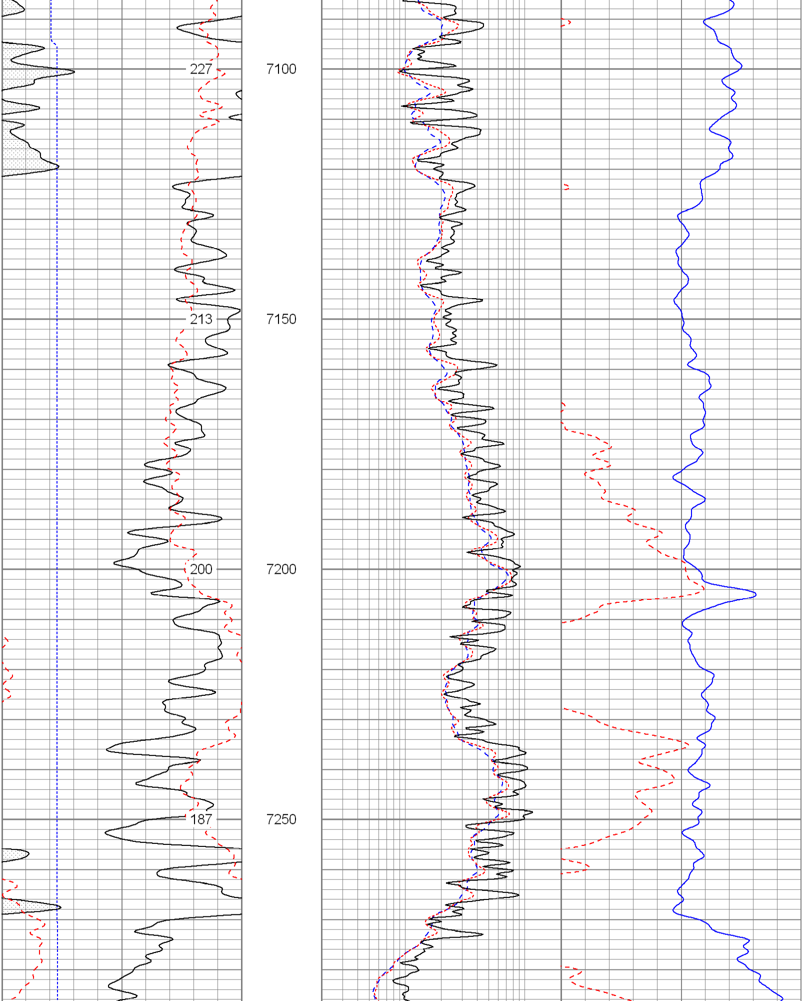
2 Shallow Resistivity (Ohm-m) 200

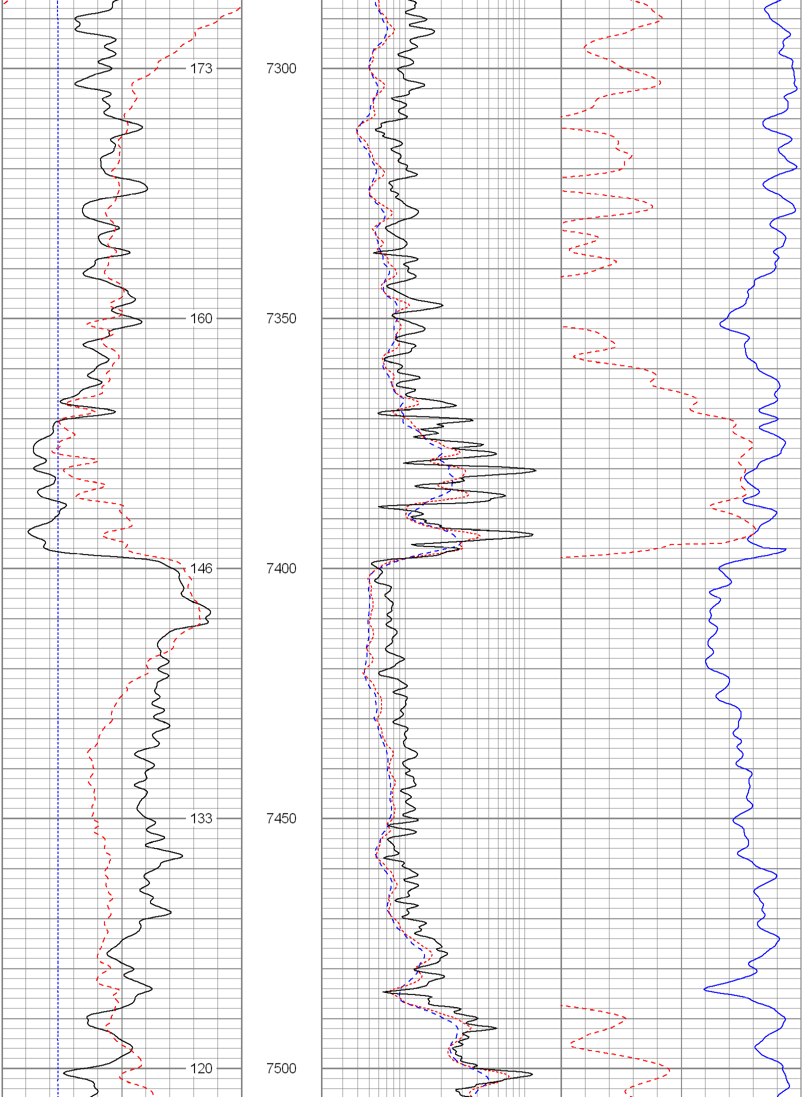
20 Density Porosity (pu) 0

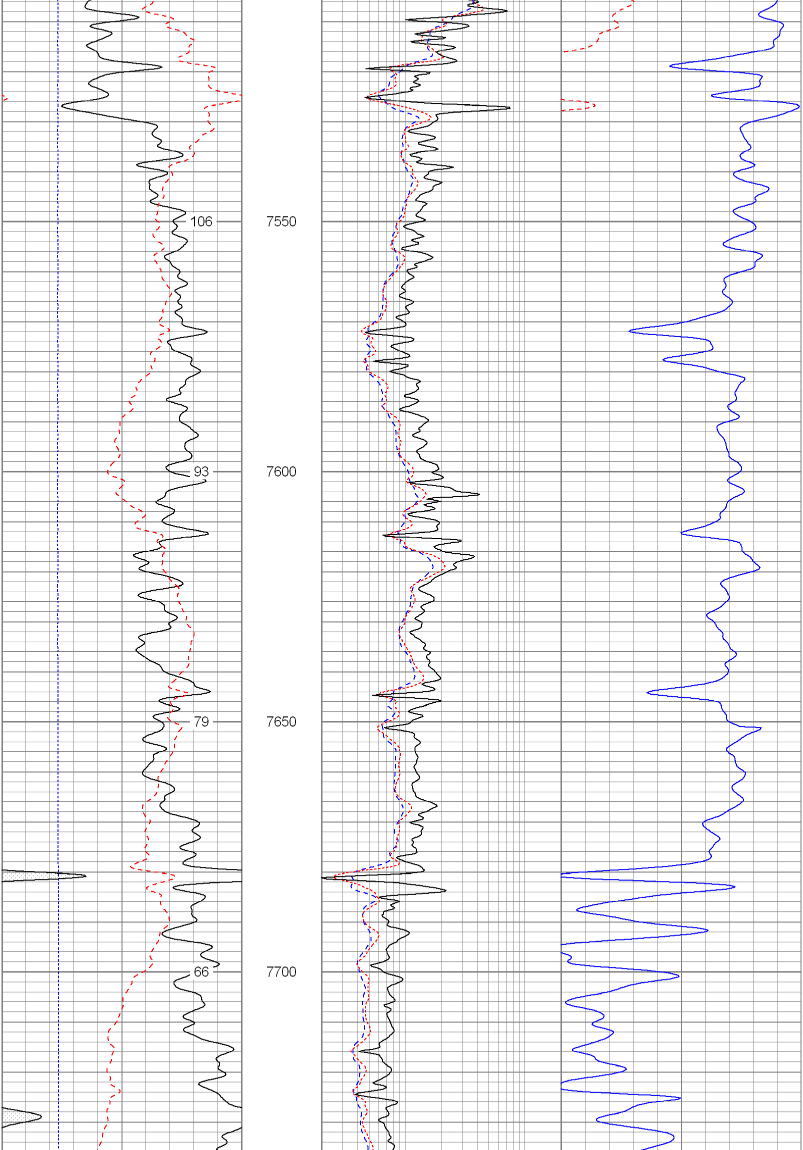
20 Neutron Porosity (pu) 0

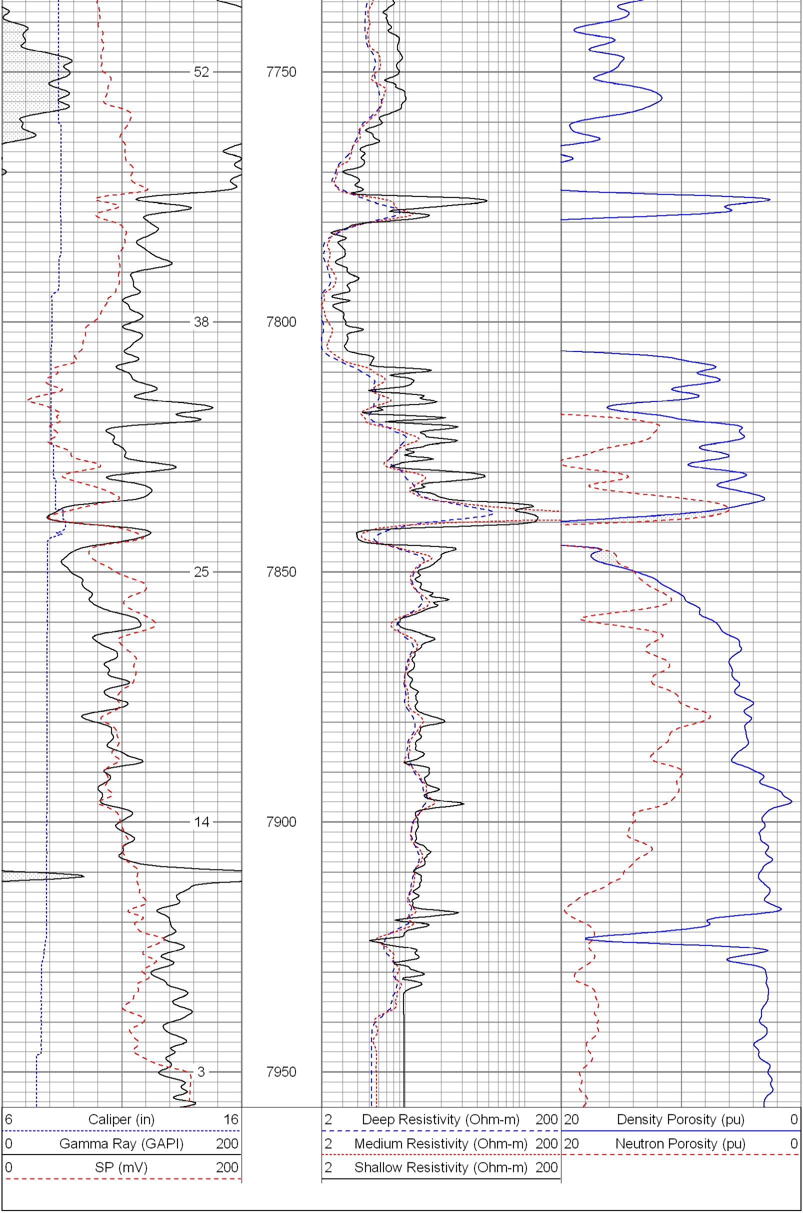











52
38
25
14
3
7750
7800
7850
7900
7950
6 Caliper (in) 16
0 Gamma Ray (GAPI) 200
0 SP (mV) 200
2 Deep Resistivity (Ohm-m) 200
2 Medium Resistivity (Ohm-m) 200
2 Shallow Resistivity (Ohm-m) 200
20 Density Porosity (pu) 0
20 Neutron Porosity (pu) 0