PSI
PHOENIX SURVEYS, INC.

COMPENSATED DENSITY
COMPENSATED NEUTRON
GAMMA RAY

Company
Well
Field
County
State/Prv

Company	**Noble Energy Inc.**
Well	**DPG F 12-27**
Field	**Wattenberg**
County	**Weld**
State/Province	**Colorado**
Location	280' FNL & 1220' FEL NE NE Sec. 12, Twp. 5N, Rge. 65W

Other Services
Dual
Induction

Permanent Datum GL Elevation 4603
Log Measured From KB
Drilling Measured From KB

Elevation
K.B. 4613
D.F. 4612
G.L. 4603

Date	December 31, 2008			
Run Number	1			
Depth Driller	7063			
Depth Logger	7065			
Bottom Logged Interval	7065			
Top Log Interval	Casing			
Casing Driller	520			
Casing Logger	520			
Bit Size	6-1/4"			
Type Fluid in Hole	Chem Gel			
Density / Viscosity	8.6 / 50			
pH / Fluid Loss	10.0 / 12.0			
Source of Sample	Flowline			
Rm @ Meas. Temp	3.62 @ 54° F			
Rmf @ Meas. Temp	2.72 @ 54° F			
Rmc @ Meas. Temp	4.53 @ 54° F			
Source of Rmf / Rmc	Measure / Calc			
Rm @ BHT	1.10 @ 205° F			
Time Circulation Stopped	2400 12/30/08			
Time Logger on Bottom	0600 12/31/08			
Maximum Recorded Temperature	205° F			
Equipment Number	4400			
Location	Brighton, CO			
Recorded By	Maciej Staron			
Witnessed By	Jim Boyd			

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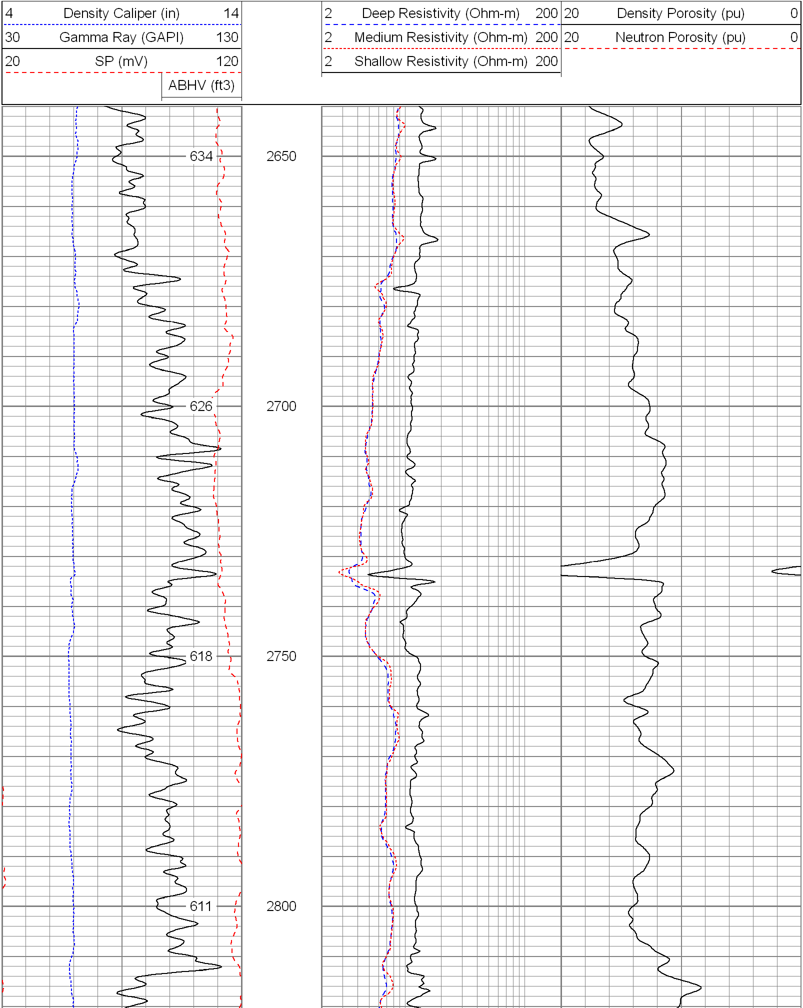
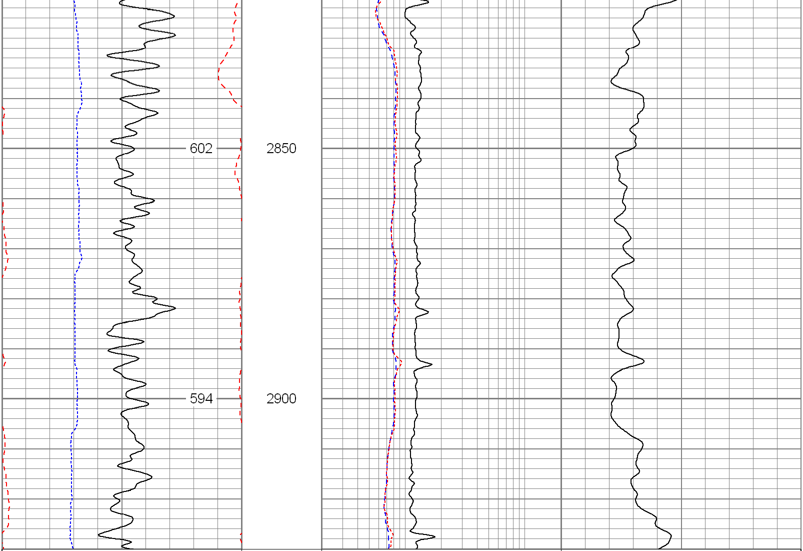
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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 2
Thank you for using Phoenix Surveys!!
API #: 05-123-29084-00

Database File: 9468.db
Dataset Pathname: pass3.3
Presentation Format: pdc1
Dataset Creation: Wed Dec 31 07:40:49 2008
Charted by: Depth in Feet scaled 1:240





4 Density Caliper (in) 14
30 Gamma Ray (GAPI) 130
20 SP (mV) 120
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

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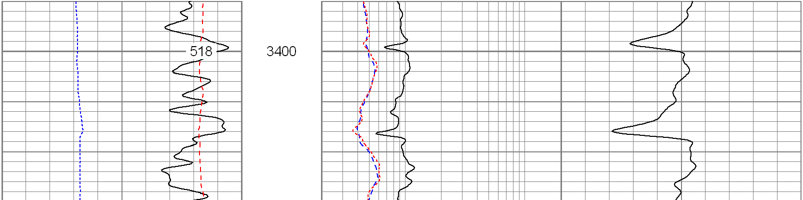

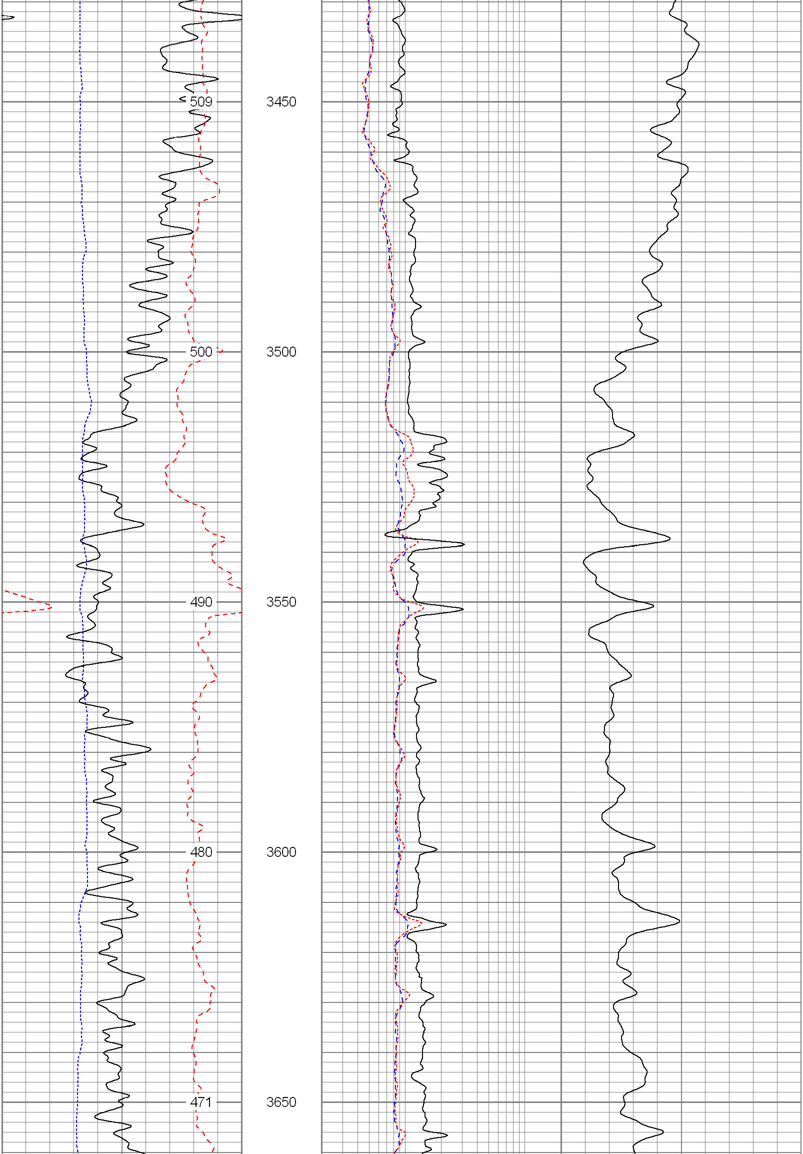

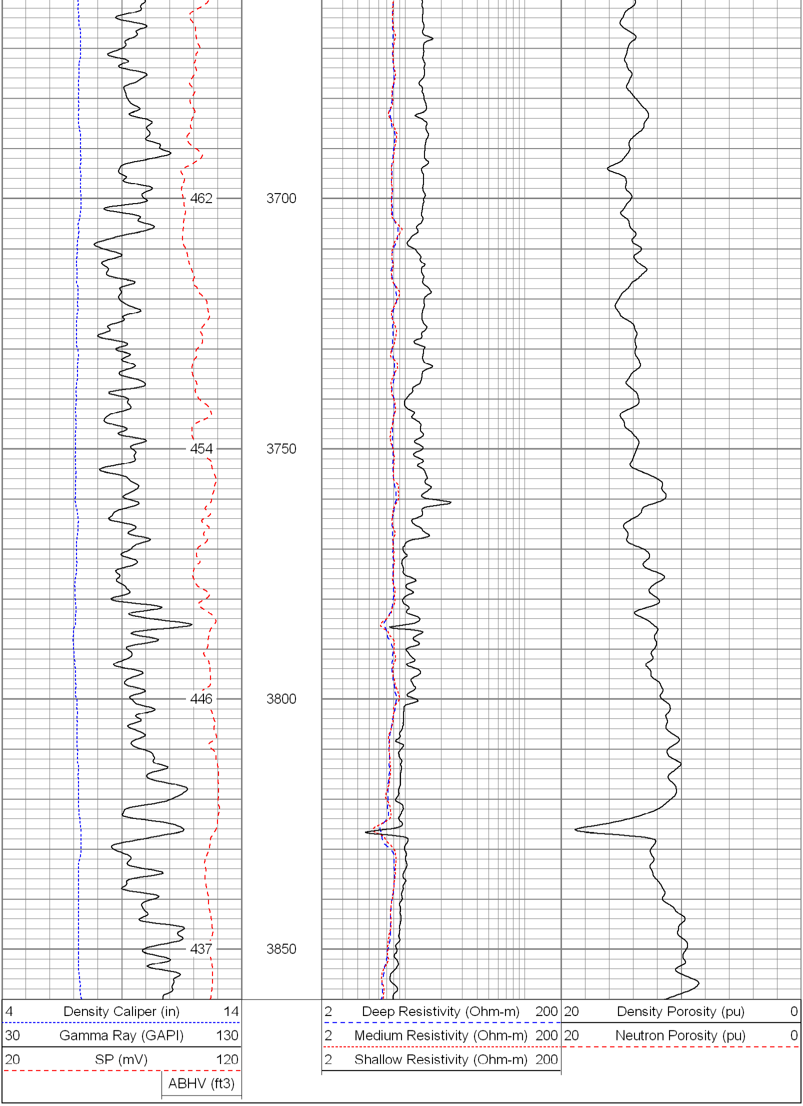

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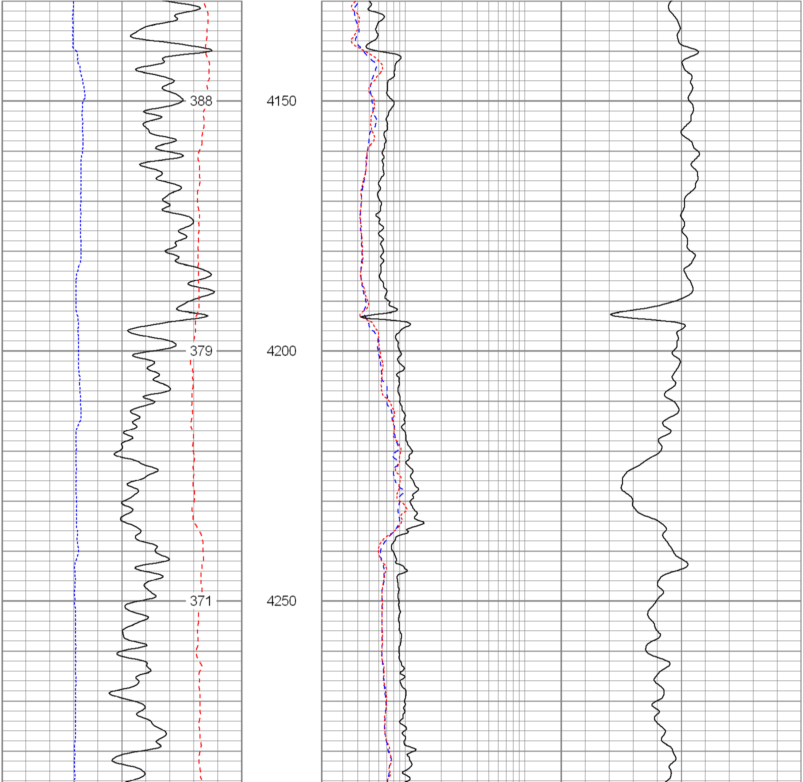

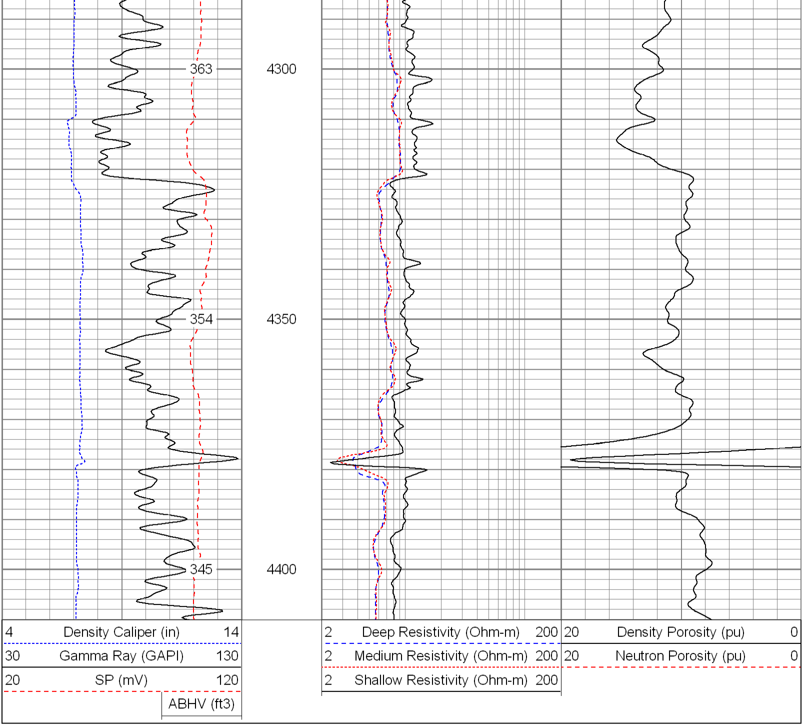

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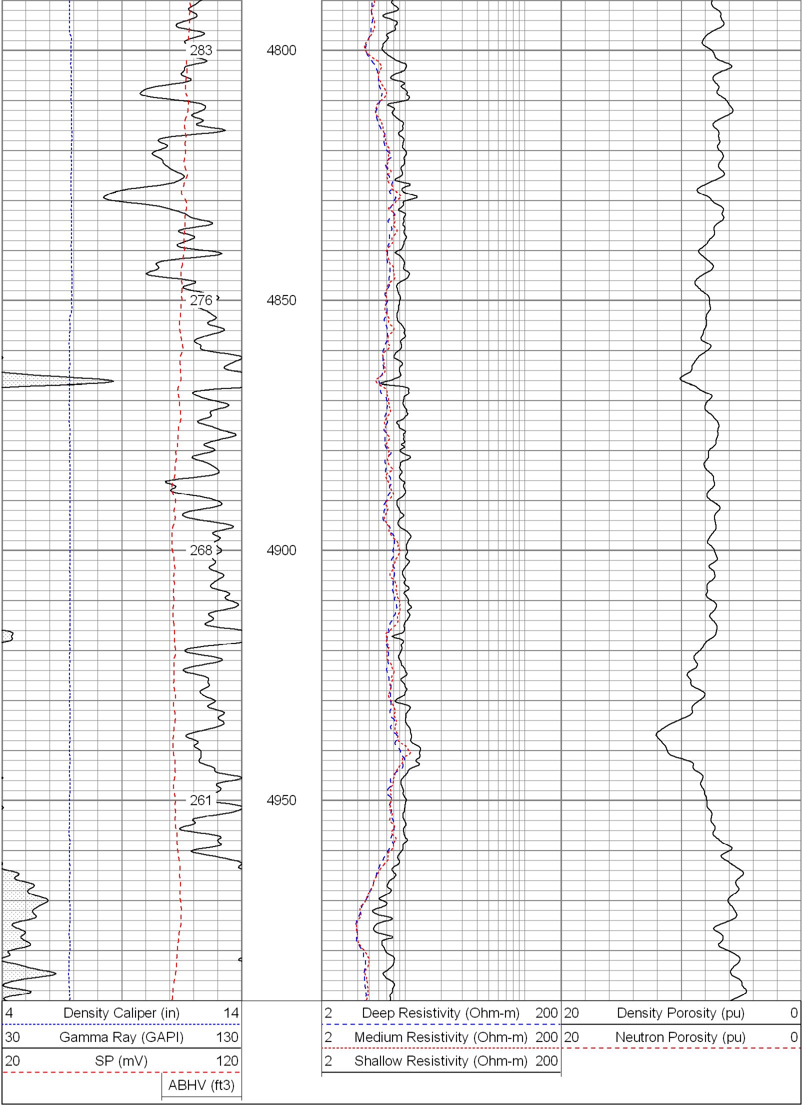

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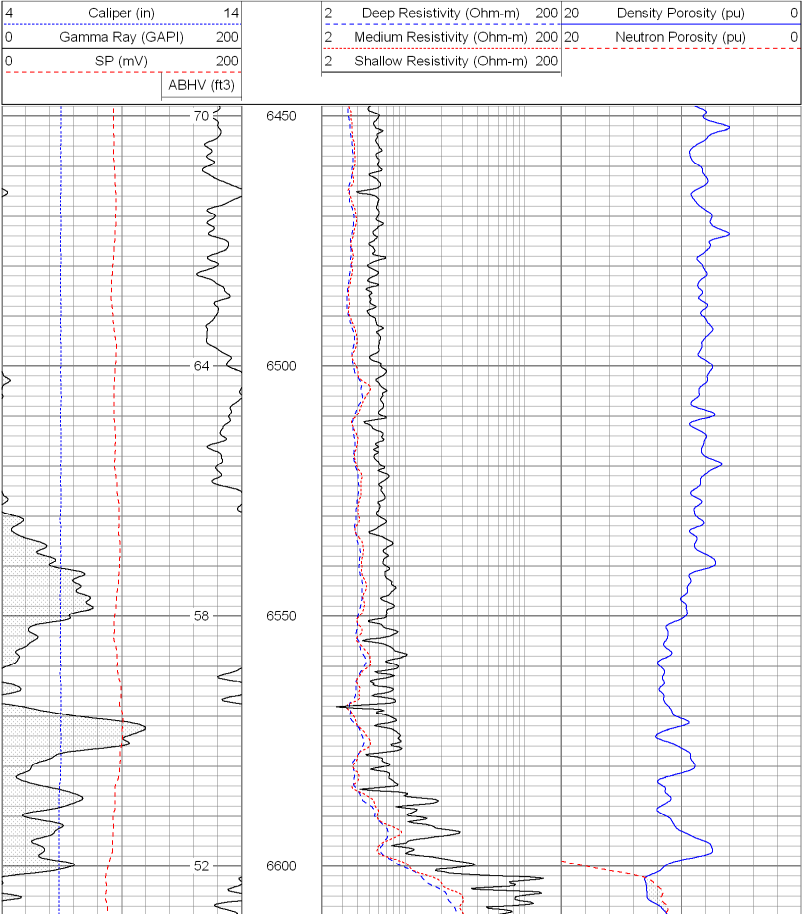
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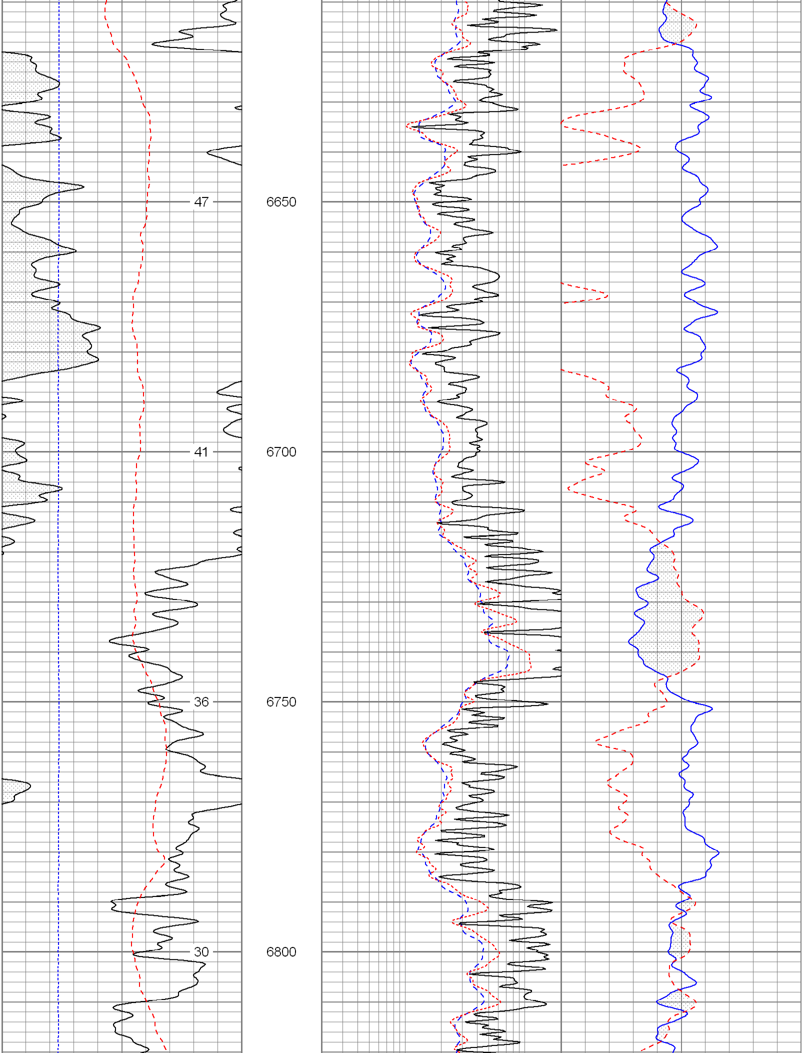
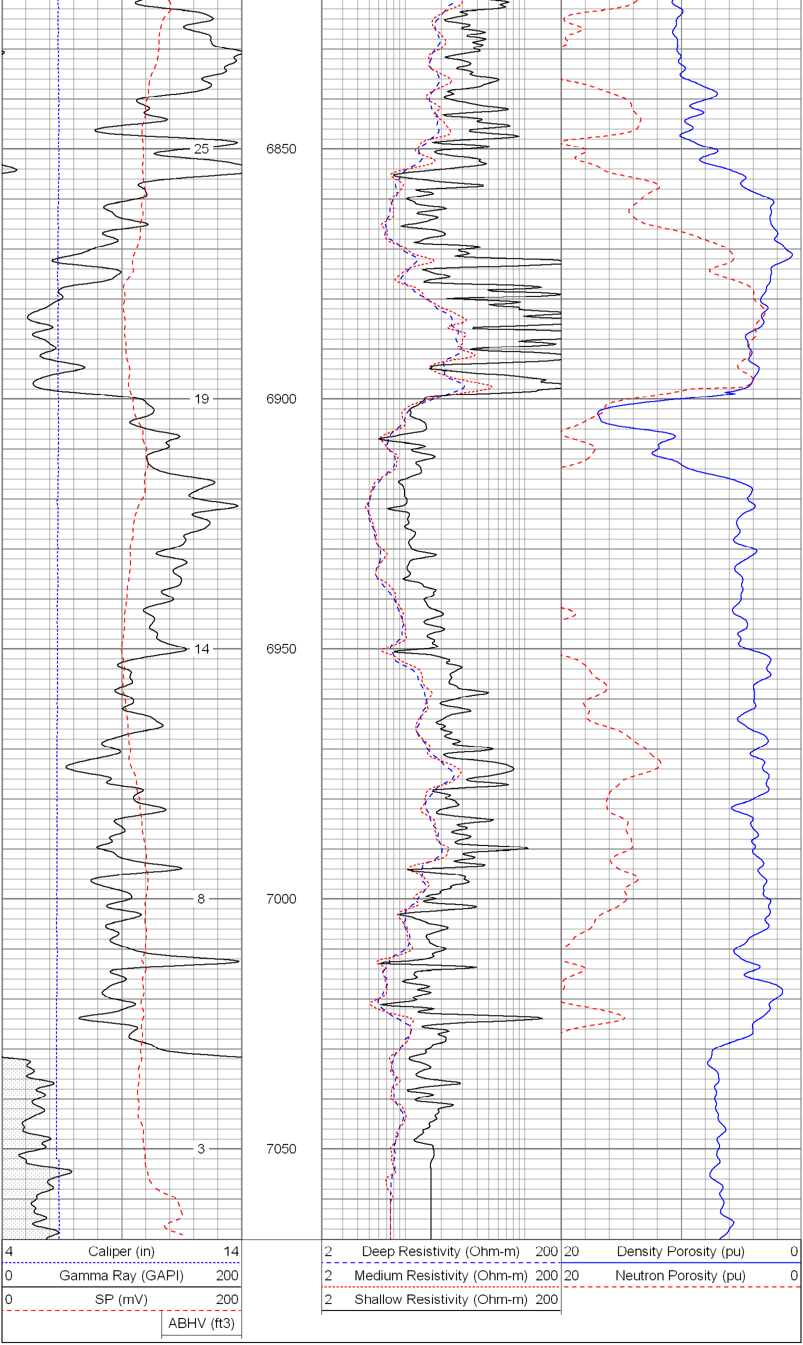
2 Medium Resistivity (Ohm-m) 200
2 Shallow Resistivity (Ohm-m) 200
20 Density Porosity (pu) 0
20 Neutron Porosity (pu) 0
70
64
58
52
6450
6500
6550
6600





25
6850
19
6900
14
6950
8
7000
3
7050
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