PSI
PHOENIX SURVEYS, INC.

COMPENSATED DENSITY
COMPENSATED NEUTRON
MICROLOG

Company
Well
Field
County
State/Prv

Company	Noble Energy Inc.
Well	Dillard USX AB 3-13X
Field	Wattenberg
County	Weld
State/Province	Colorado
Location	480' FSL & 660' FWL SW SW Sec. 3, Twp. 7N, Rge. 64W

Other Services
Induction

Permanent Datum	GL	Elevation 4848
Log Measured From	KB	
Drilling Measured From	KB	

Elevation
K.B. 4858
D.F. 4857
G.L. 4848

Date	May 11, 2008		
Run Number	1		
Depth Driller	7211		
Depth Logger	7213		
Bottom Logged Interval	7193		
Top Log Interval	2950		
Casing Driller	735		
Casing Logger	Not Logged		
Bit Size	7-7/8"		
Type Fluid in Hole	Chem Gel		
Density / Viscosity	9.4 / 55		
pH / Fluid Loss	10.0 / 8.0		
Source of Sample	Flowline		
Rm @ Meas. Temp	3.51 @ 79° F		
Rmf @ Meas. Temp	2.80 @ 79° F		
Rmc @ Meas. Temp	4.25 @ 79° F		
Source of Rmf / Rmc	Measure / Calc		
Rm @ BHT	1.15 @ 199° F		
Time Circulation Stopped	0030		
Time Logger on Bottom	0645		
Maximum Recorded Temperature	199° F		
Equipment Number	4800		
Location	Brighton, CO		
Recorded By	Ian Harris		
Witnessed By	John Drahota		

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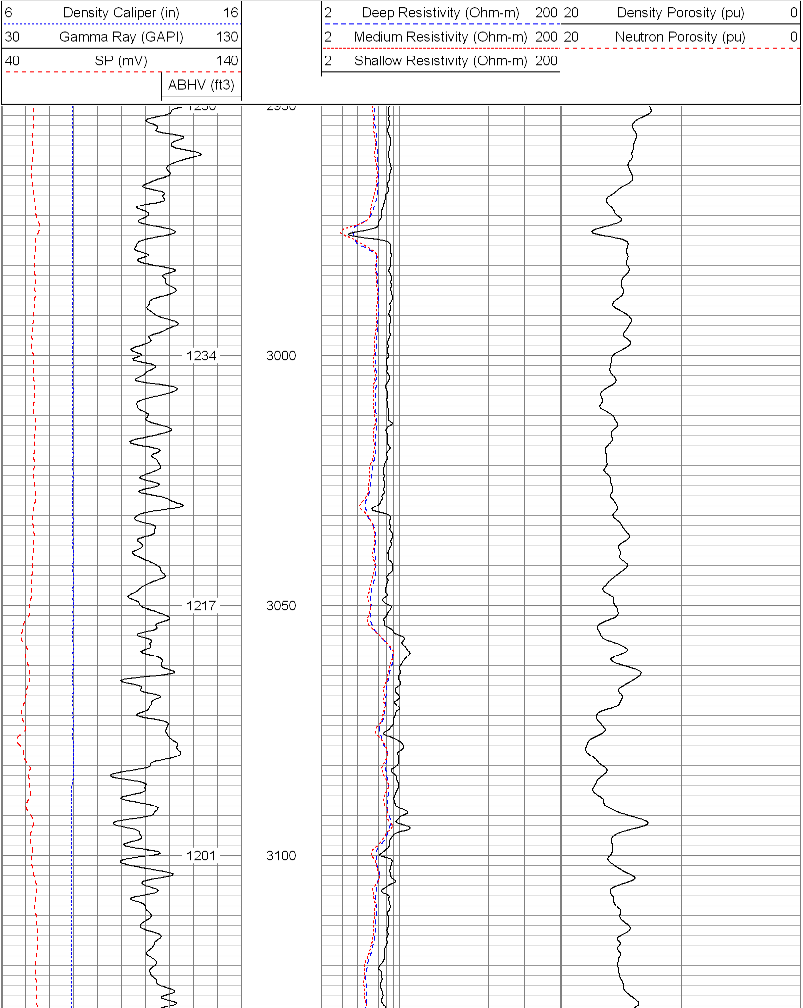
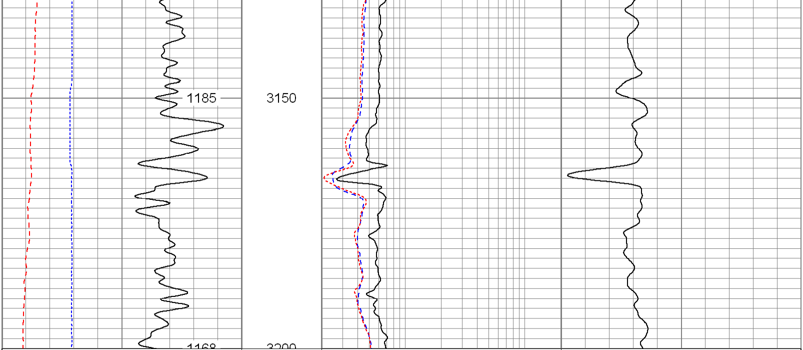
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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 #: 05-123-26087-00

Database File: 8704.db
Dataset Pathname: pass3.4
Presentation Format: pdc1
Dataset Creation: Mon May 12 07:40:39 2008
Charted by: Depth in Feet scaled 1:240





6 Density Caliper (in) 16
30 Gamma Ray (GAPI) 130
40 SP (mV) 140
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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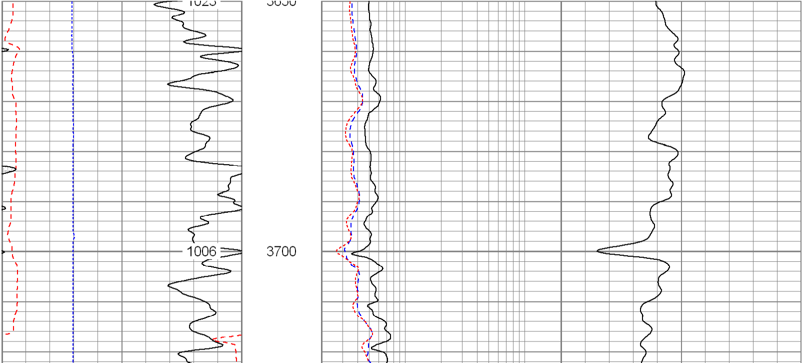
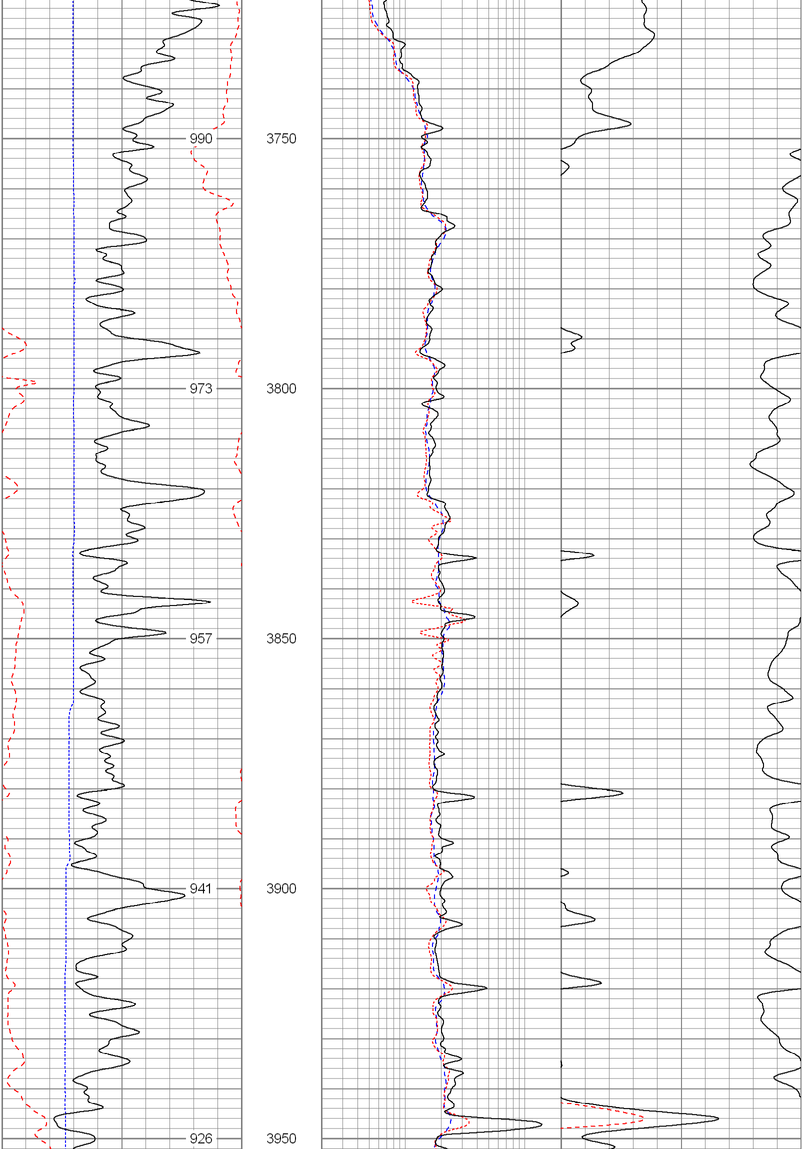
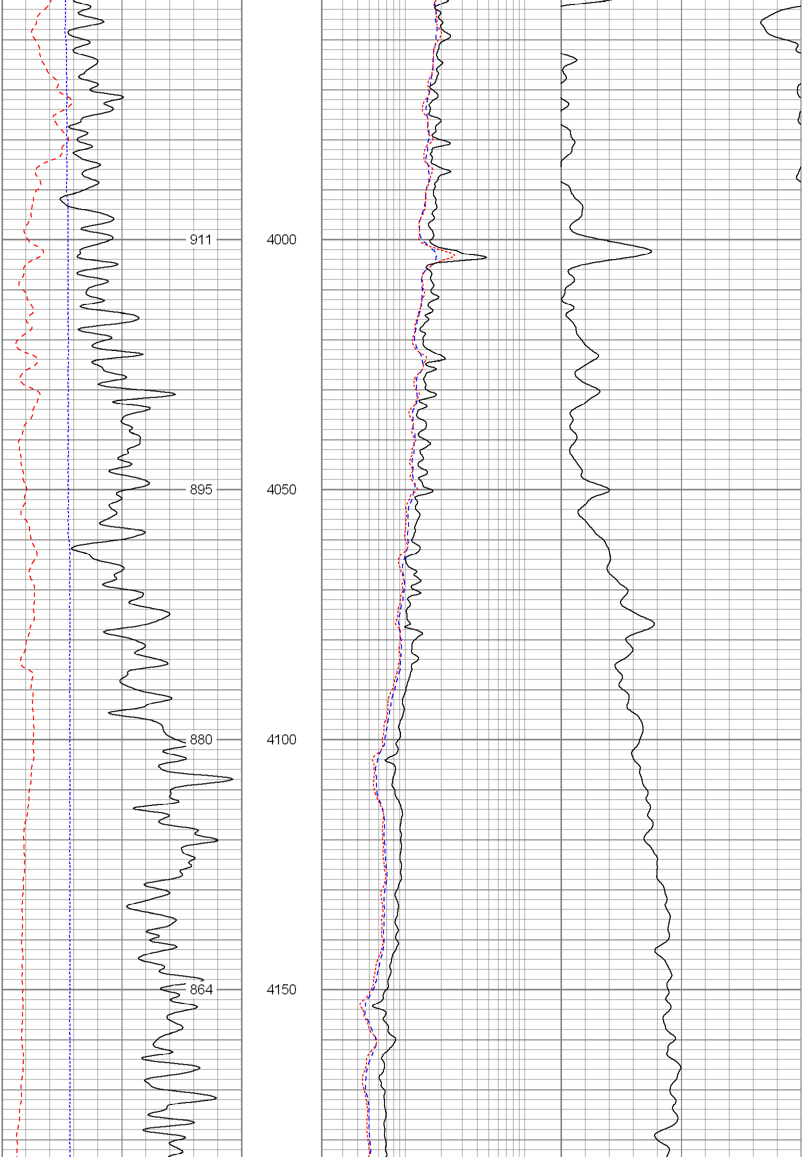
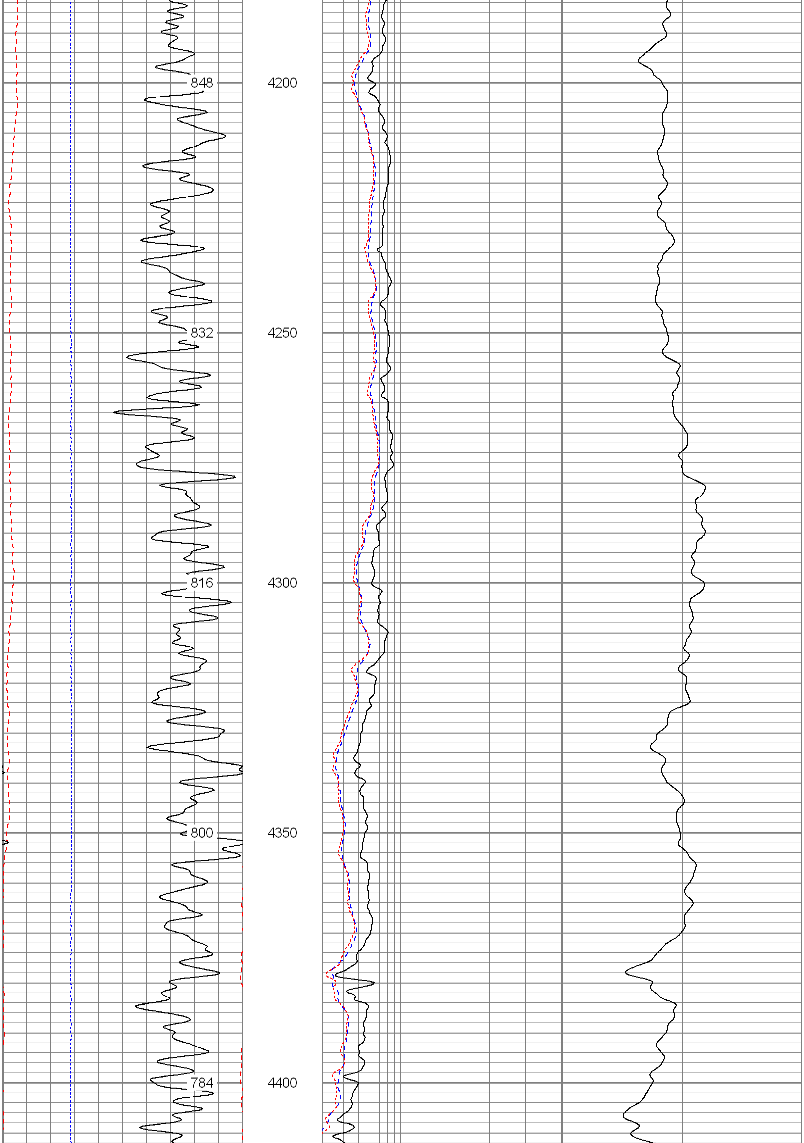
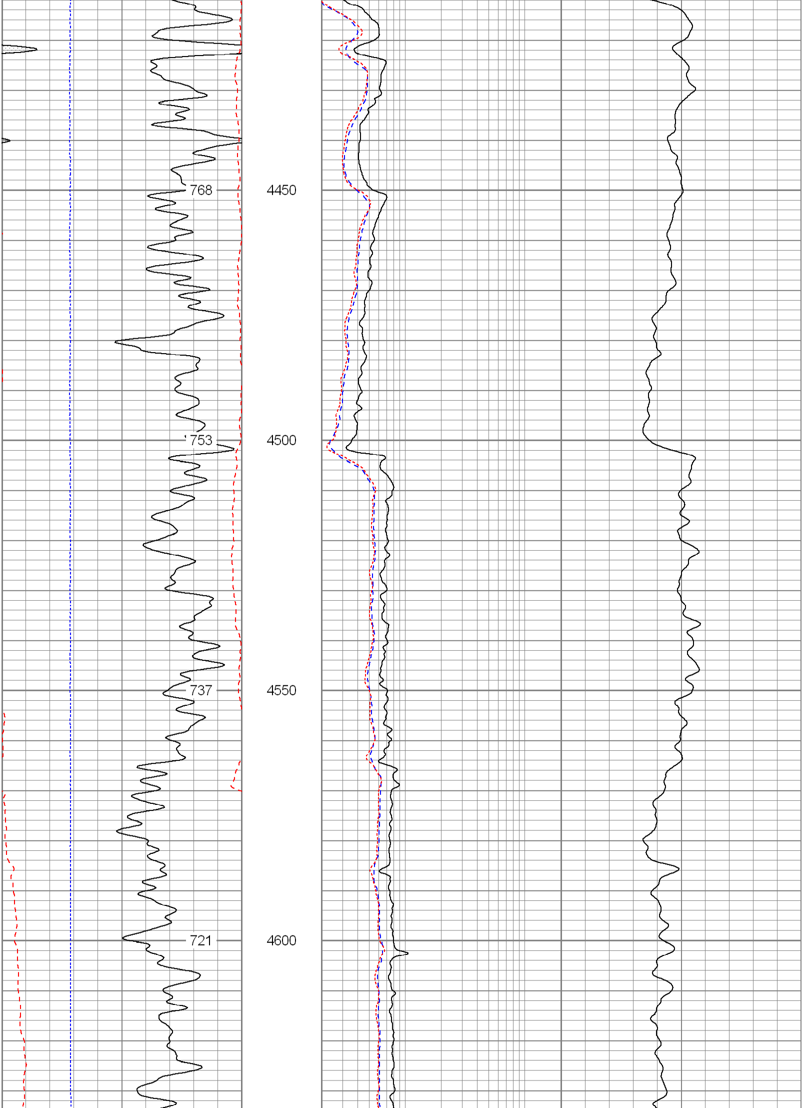
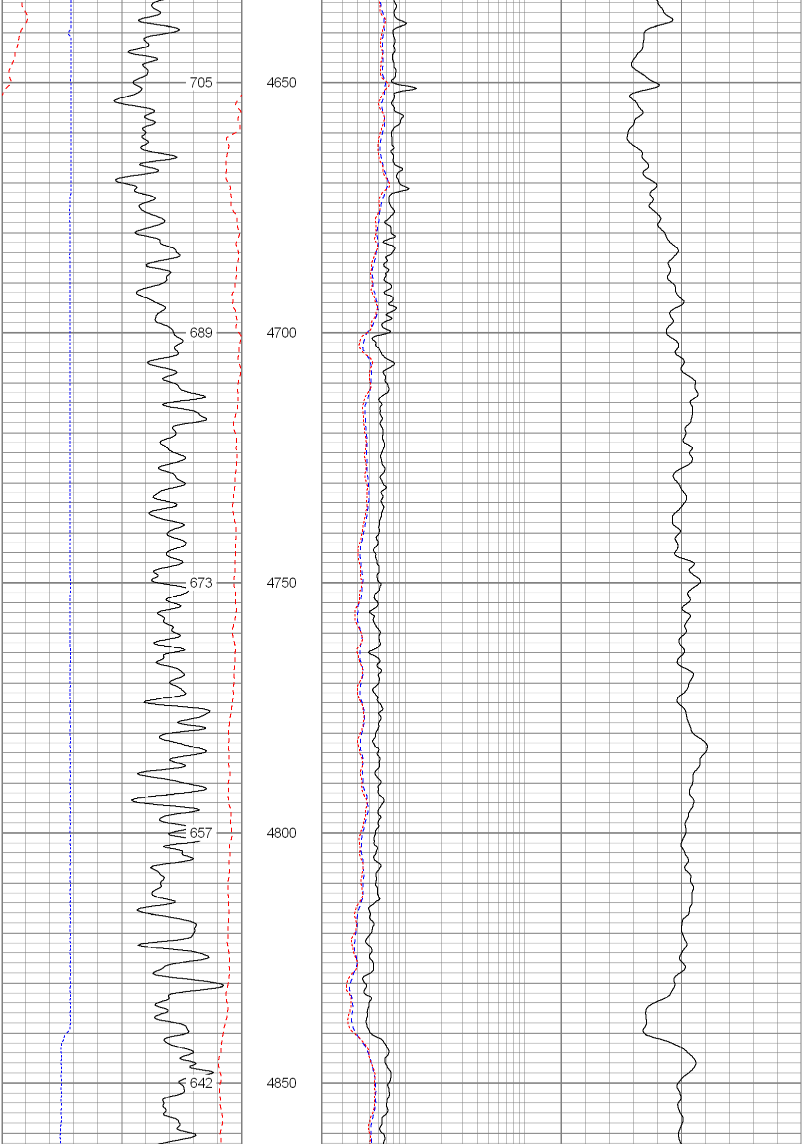


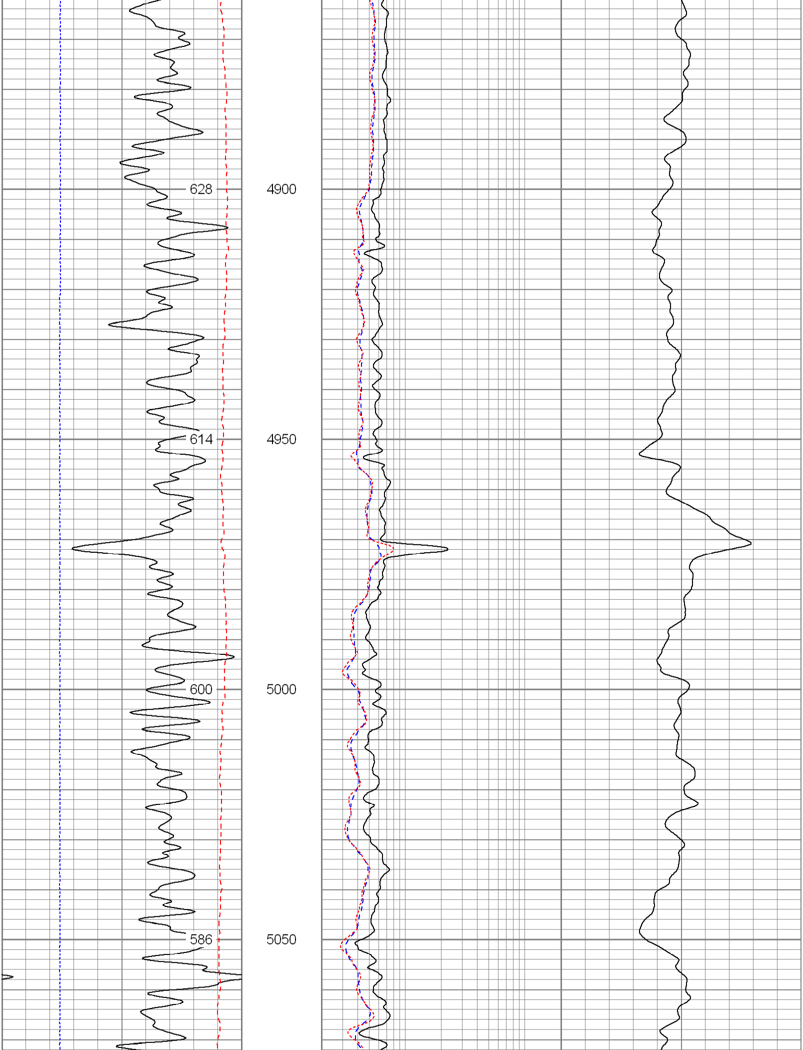


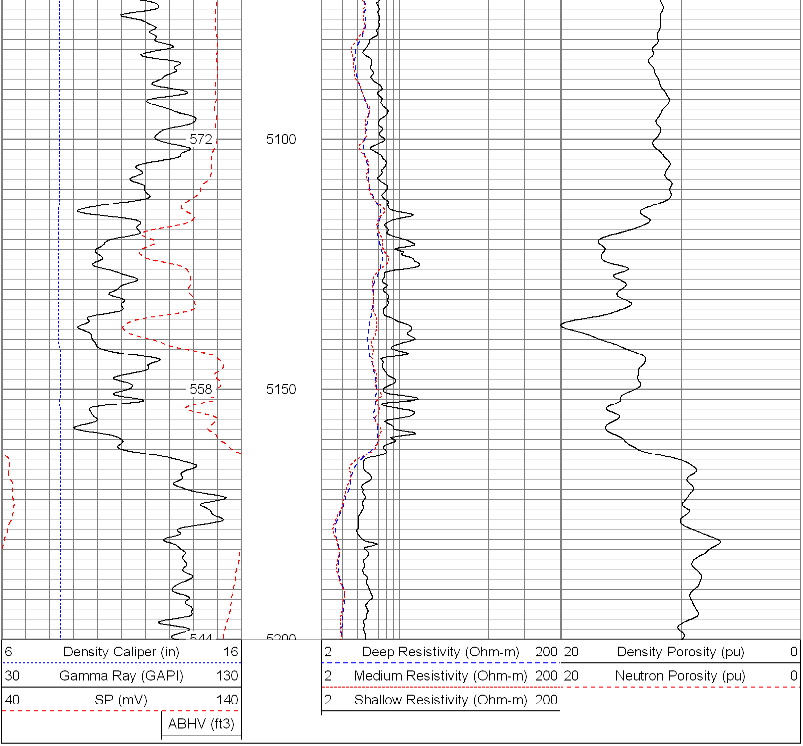






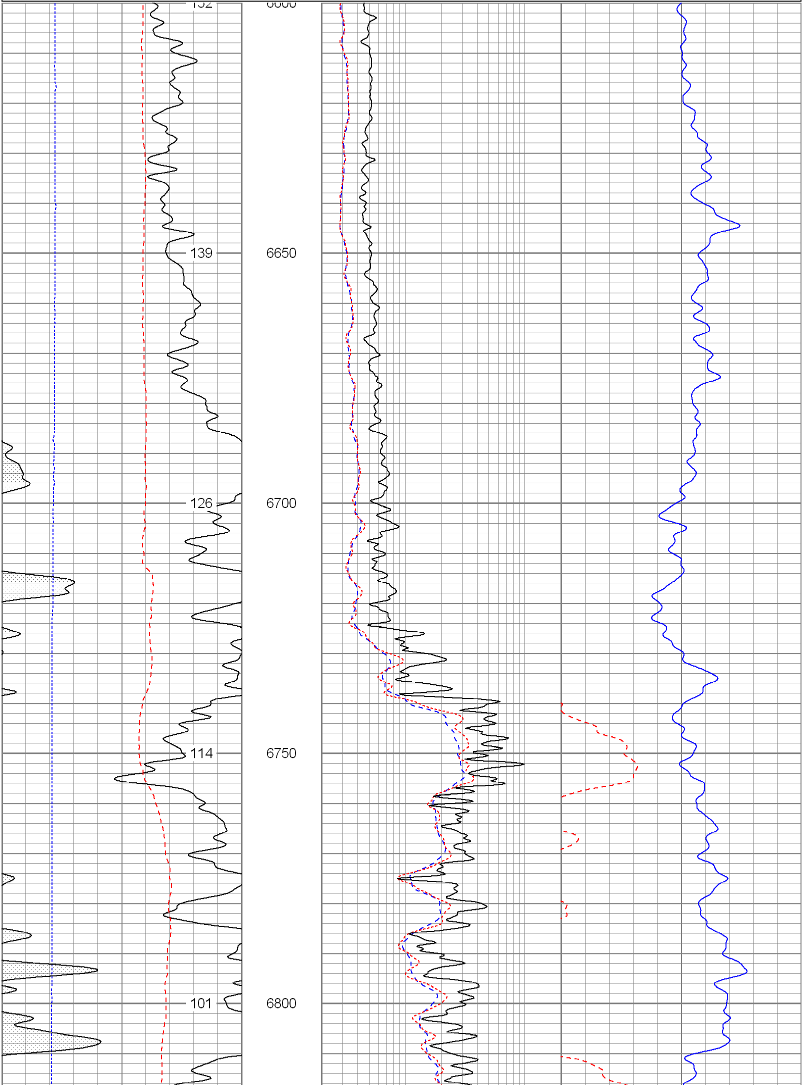


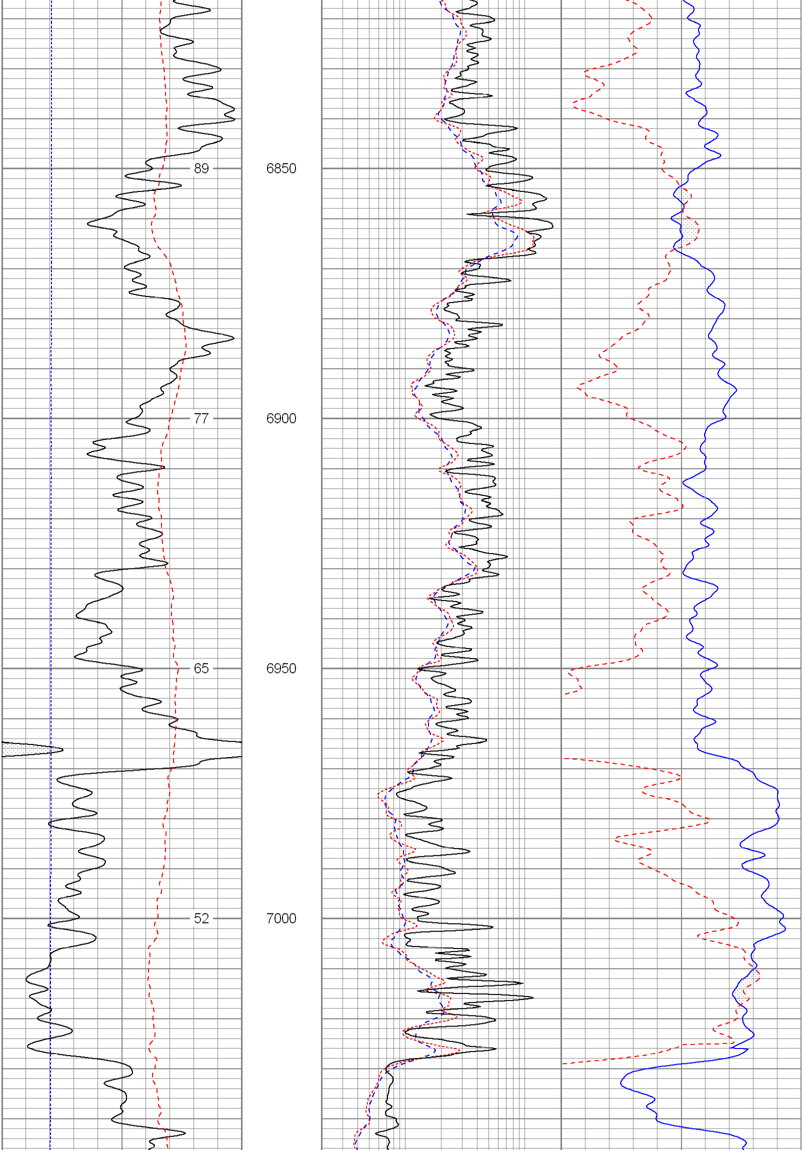


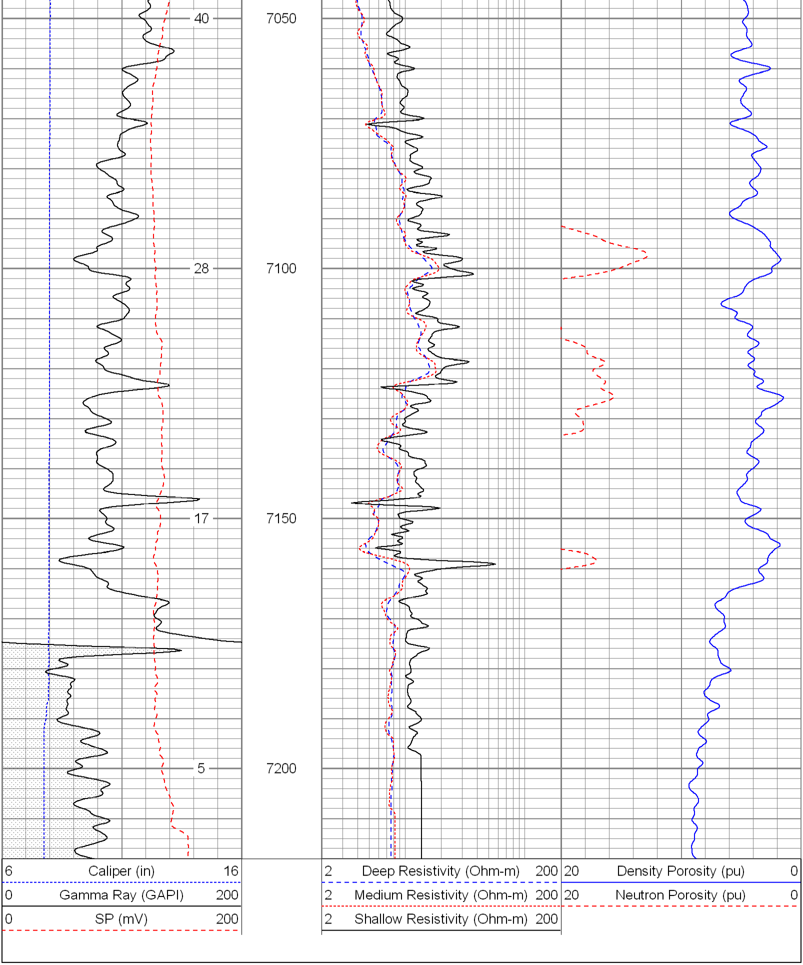


Database File:	8704.db
Dataset Pathname:	pass3.3
Presentation Format:	pdc
Dataset Creation:	Mon May 12 06:57:39 2008 by Calc Open-Cased 070814
Charted by:	Depth in Feet scaled 1:240

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	






40
28
17
5
7050
7100
7150
7200
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