PHOENIX SURVEYS, INC.

DUAL INDUCTION
GUARD LOG
GAMMA RAY

Company
Well
Field
County
State/Prv

Company	Noble Energy Production Inc.
Well	Dillard USX AB 09-16
Field	Wattenberg
County	Weld
State/Province	Colorado

Location
660' FSL & 660' FEL
SE SE
Sec. 9, Twp. 7N, Rge. 64W

Other Services
Density
Neutron
Microlog

Permanent Datum	GL	Elevation	4856
Log Measured From	KB		
Drilling Measured From	KB		

Elevation
K.B. 4870
D.F. 4869
G.L. 4856

Date	March 4, 2008		
Run Number	1		
Depth Driller	7229		
Depth Logger	7227		
Bottom Logged Interval	7227		
Top Log Interval	Casing		
Casing Driller	698		
Casing Logger	698		
Bit Size	7-7/8"		
Type Fluid in Hole	Chem Gel		
Density / Viscosity	9.2 / 53		
pH / Fluid Loss	8.0 / 8.0		
Source of Sample	Flowline		
Rm @ Meas. Temp	3.99 @ 77° F		
Rmf @ Meas. Temp	3.20 @ 77° F		
Rmc @ Meas. Temp	4.79 @ 77° F		
Source of Rmf / Rmc	Measure / Calc		
Rm @ BHT	1.21 @ 204° F		
Time Circulation Stopped	3:30		
Time Logger on Bottom	11:00		
Maximum Recorded Temperature	204° F		
Equipment Number	4400		
Location	Brighton, CO		
Recorded By	Peter Dhaliwal		
Witnessed By	J. Drahota		

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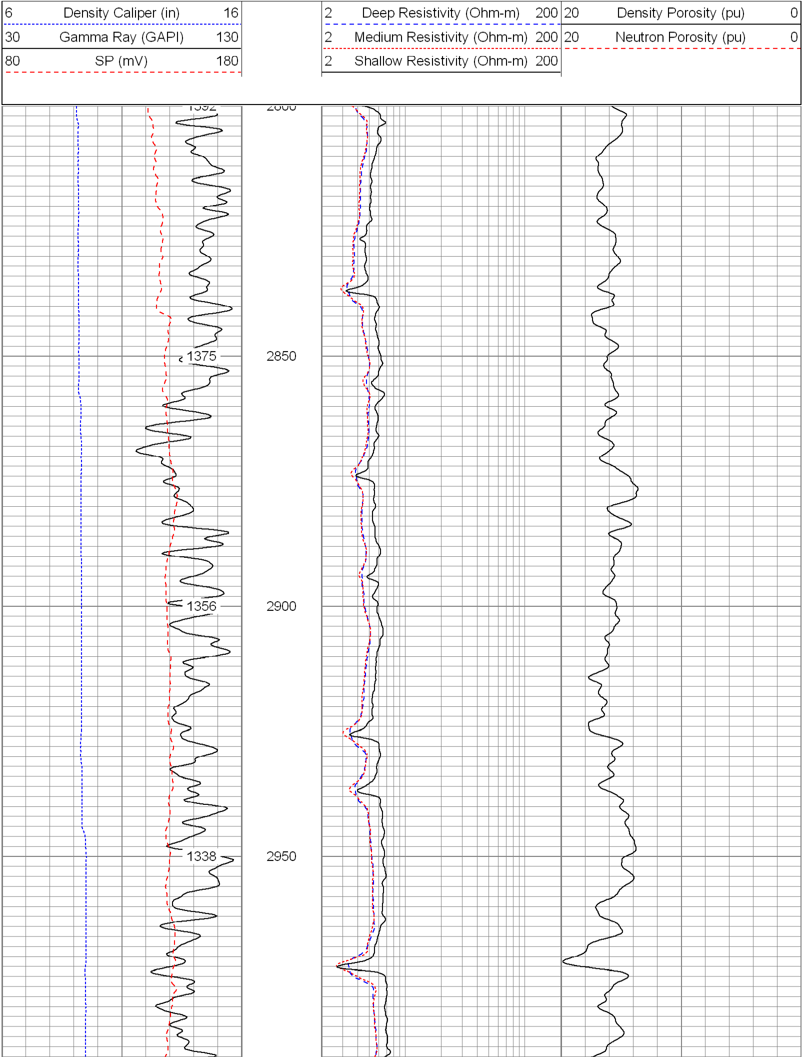
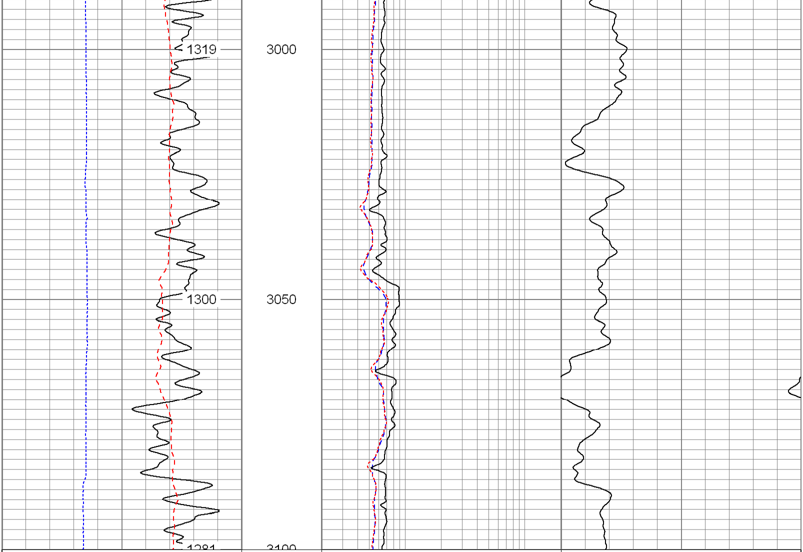
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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
Patterson UTI 6
Thank you for using Phoenix Surveys!!
API #: 05-123-26089-00

Database File:	8414.db
Dataset Pathname:	pass3
Presentation Format:	pdc1
Dataset Creation:	Tue Mar 04 11:26:49 2008 by Log Open-Cased 061129
Charted by:	Depth in Feet scaled 1:240





6	Density Caliper (in)	16
30	Gamma Ray (GAPI)	130
80	SP (mV)	180
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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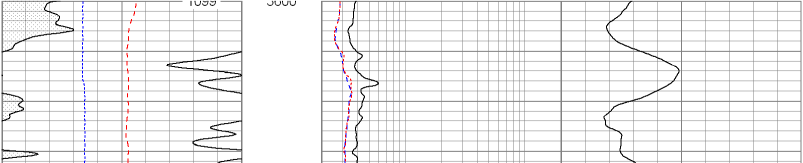

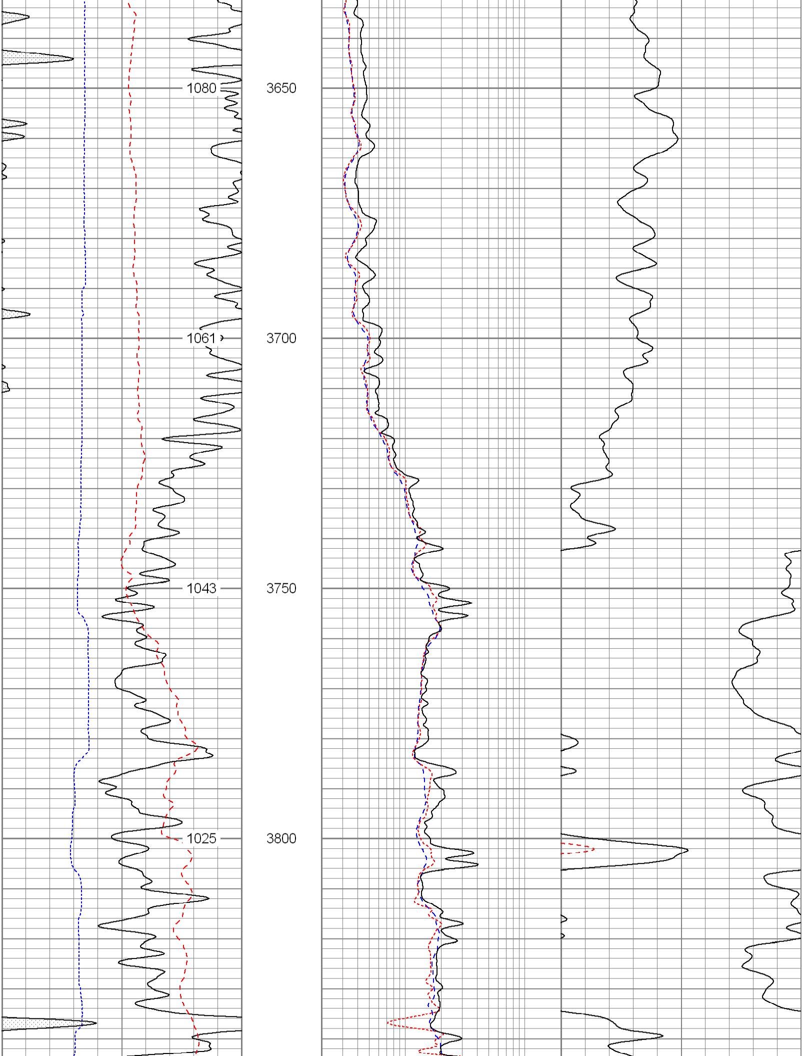

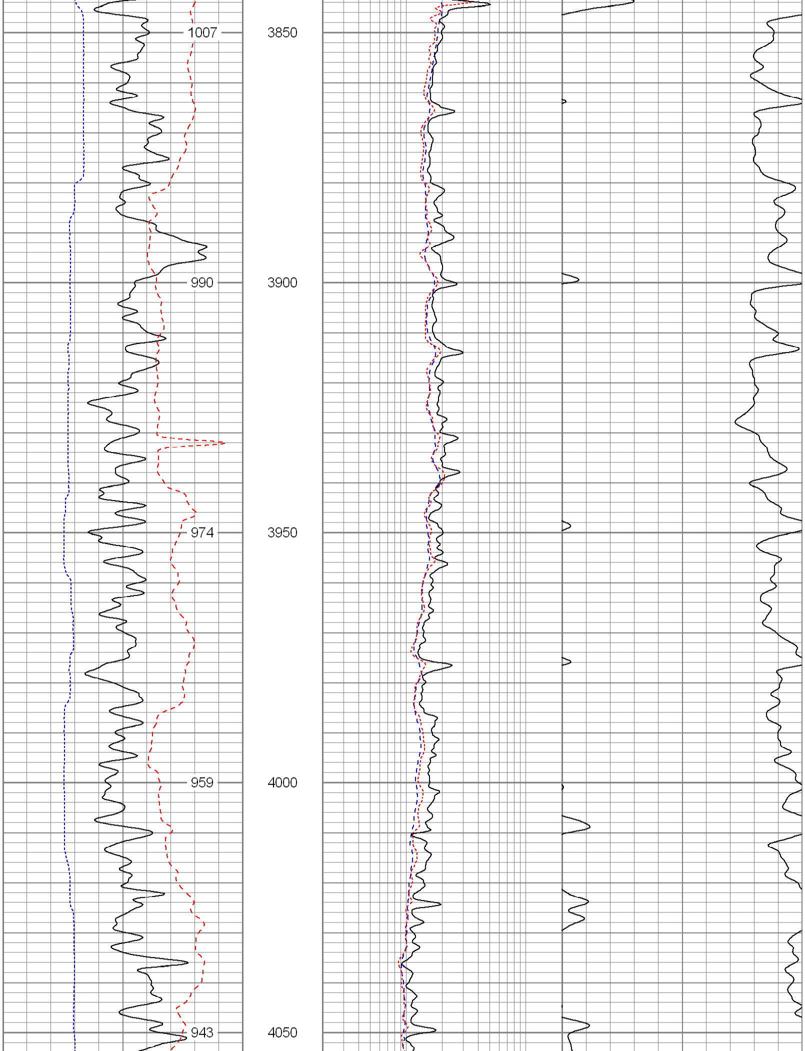

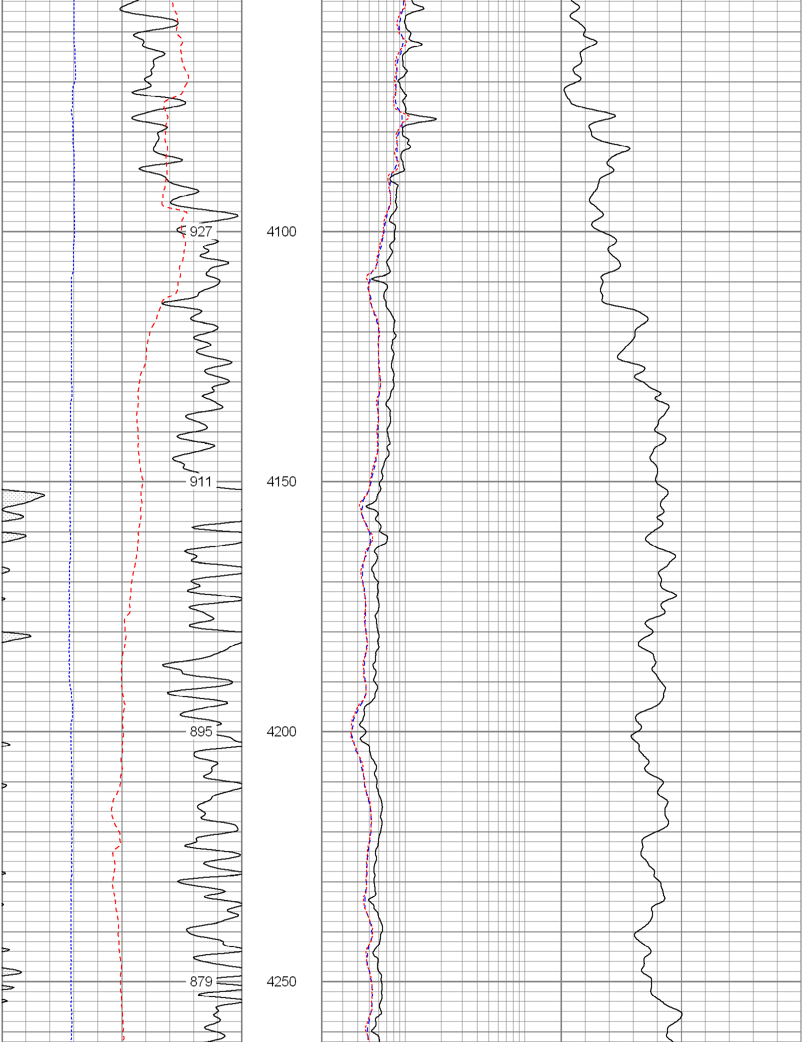

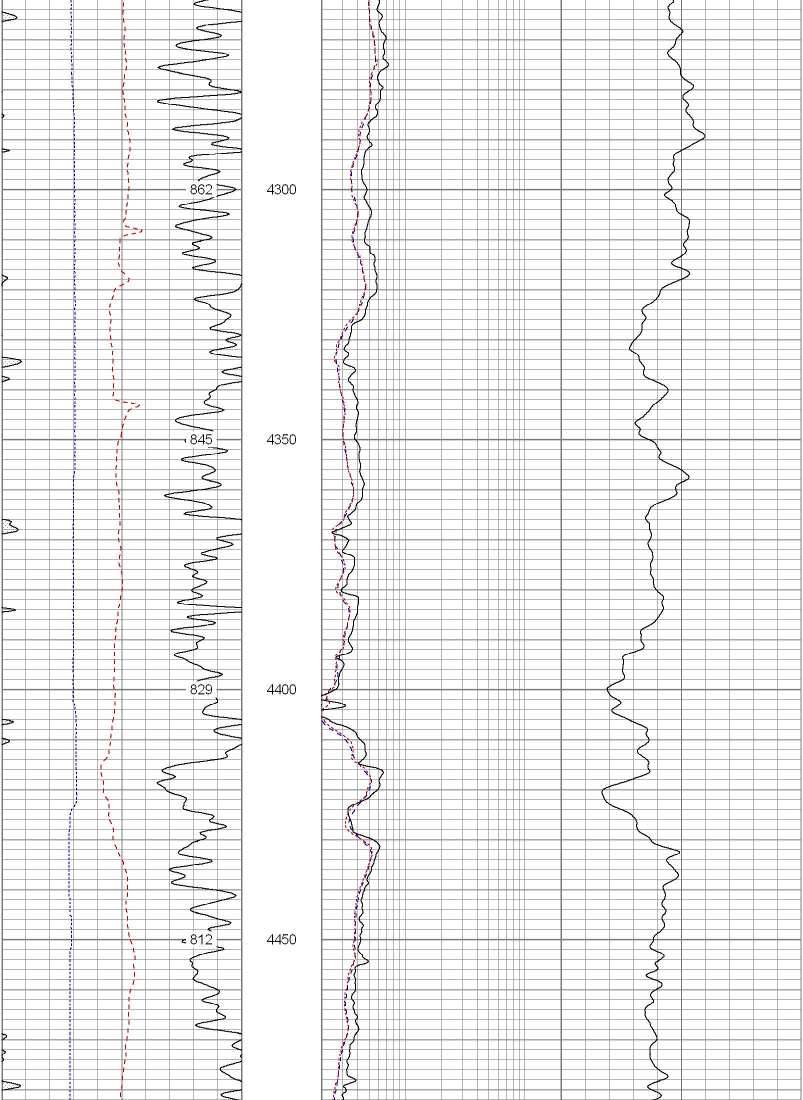

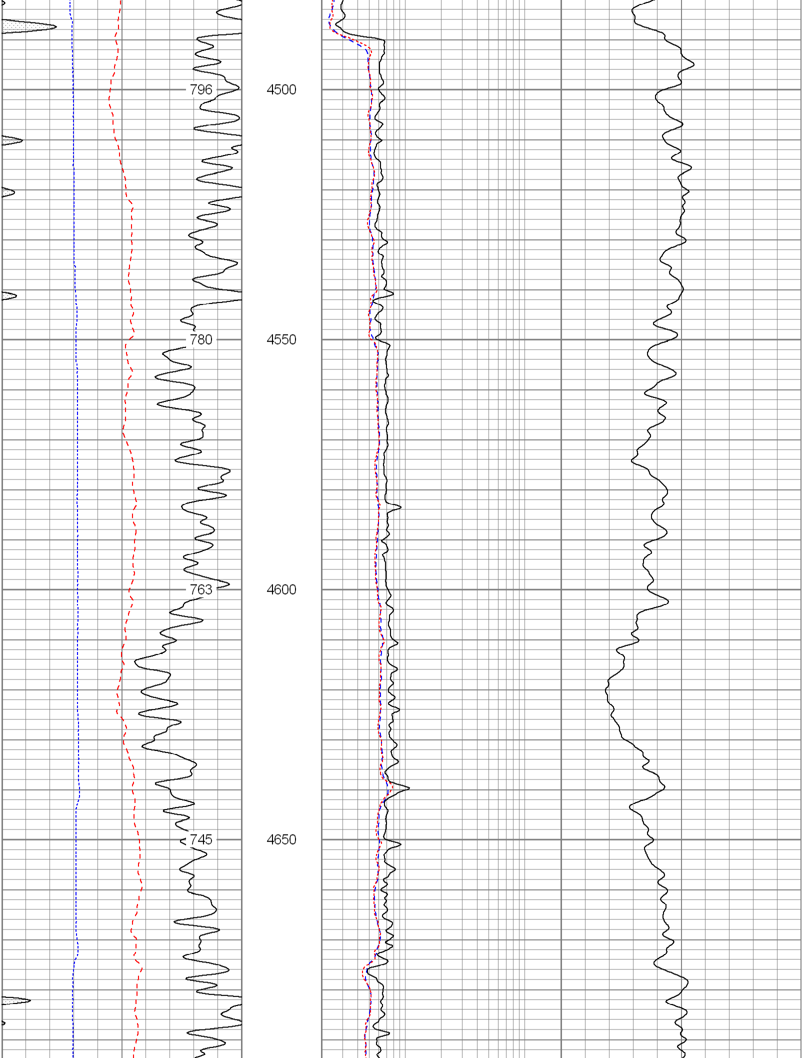

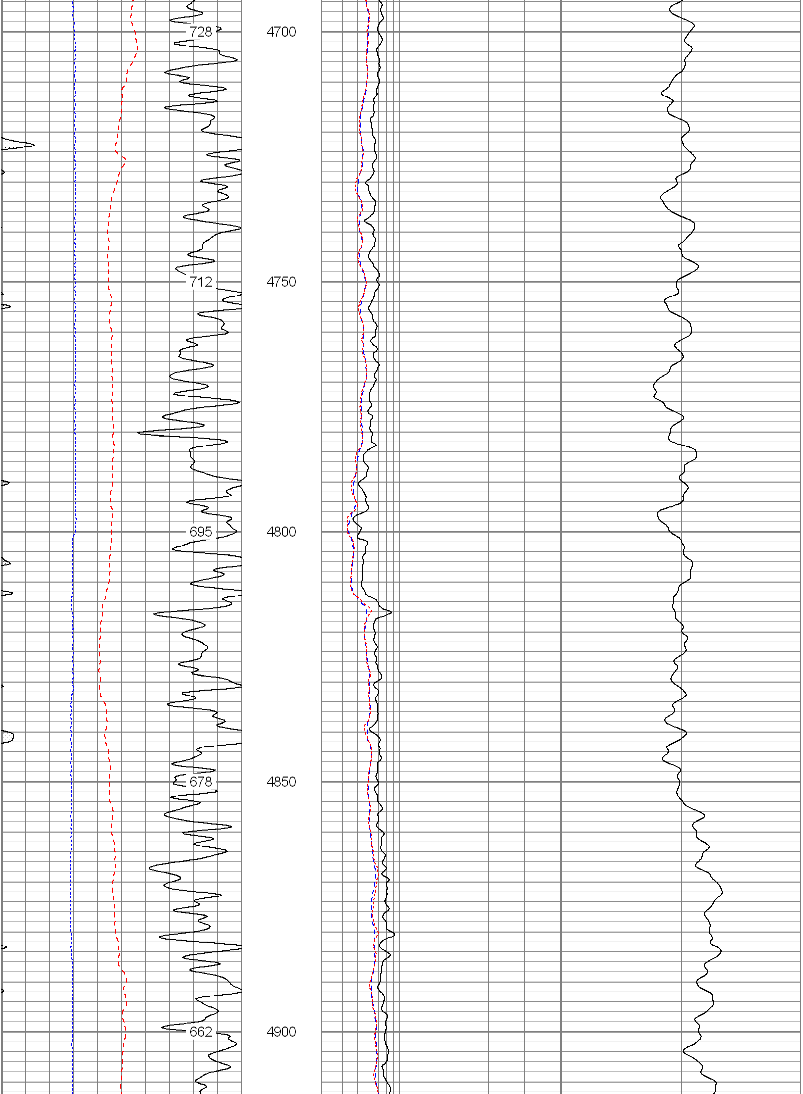

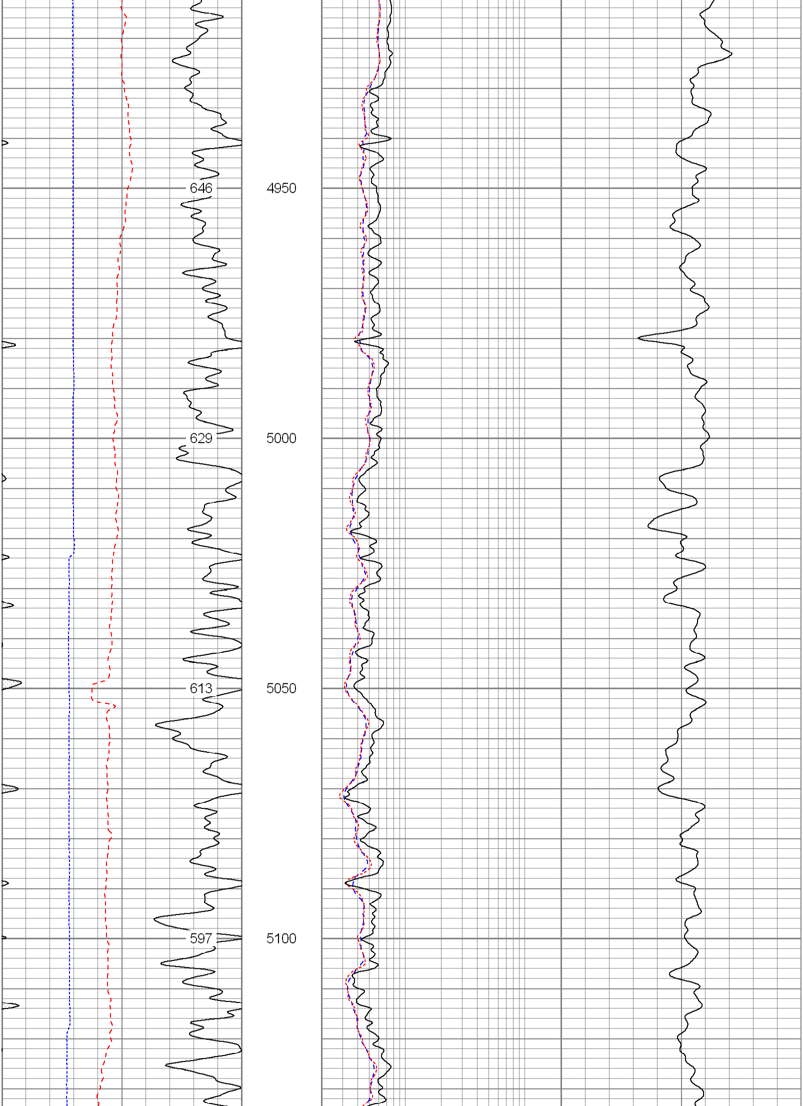

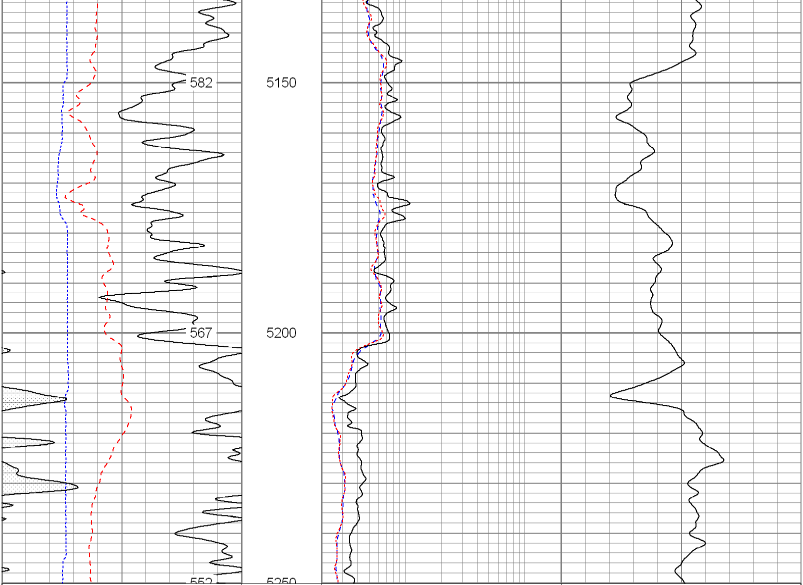

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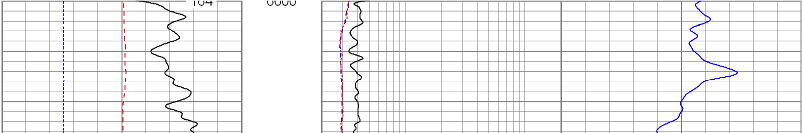
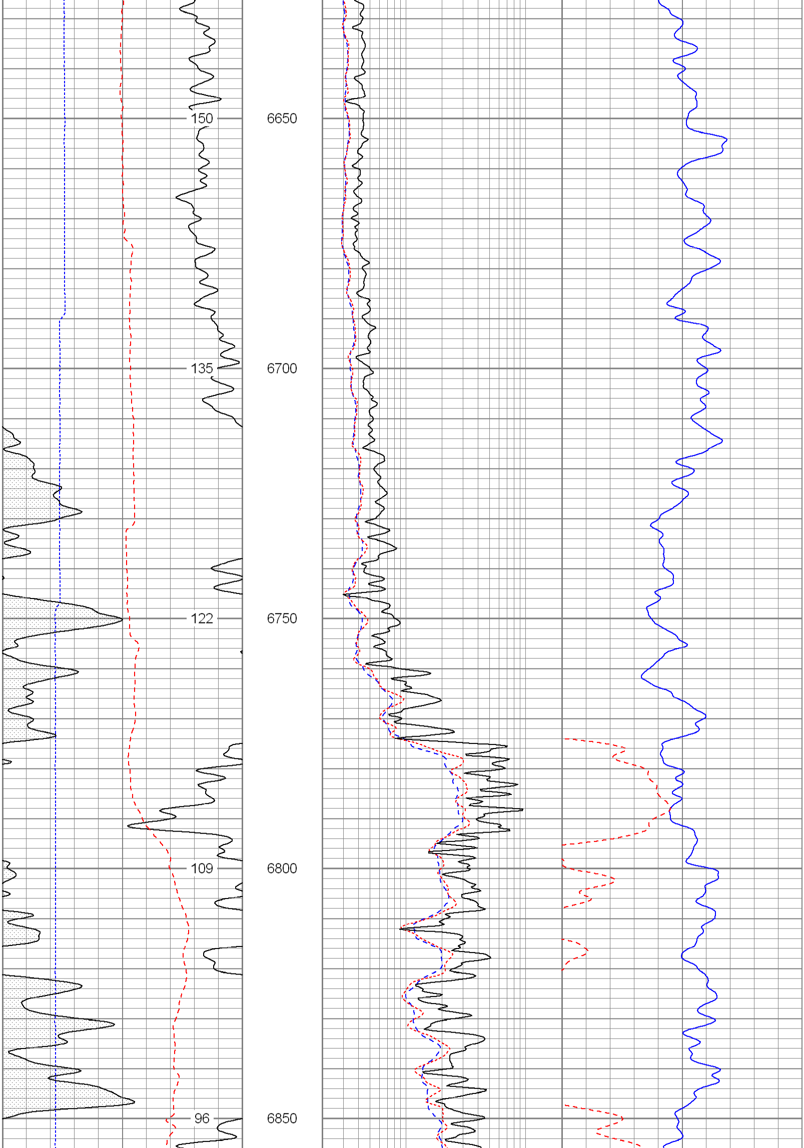
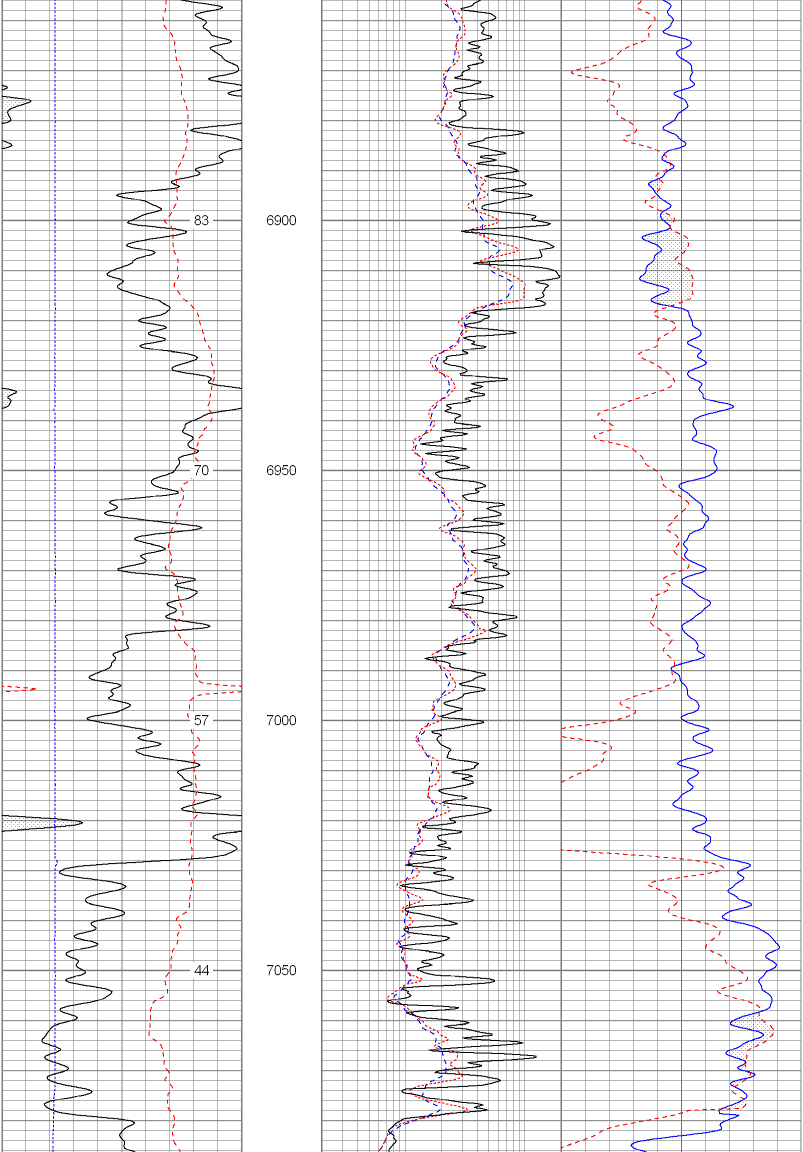
80 SP (mV) 180	2 Shallow Resistivity (Ohm-m) 200	

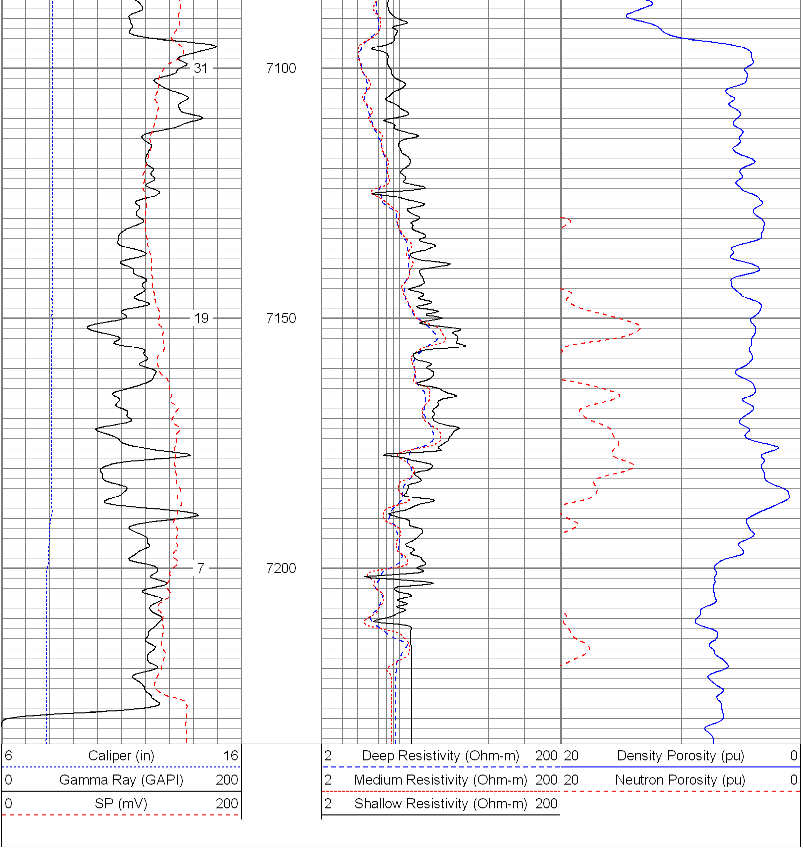
Database File:	8414.db
Dataset Pathname:	final
Presentation Format:	pdc
Dataset Creation:	Tue Mar 04 12:11:47 2008
Charted by:	Depth in Feet scaled 1:240

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	








31
19
7
7100
7150
7200
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