PHOENIX SURVEYS, INC.

HIGH RESOLUTION INDUCTION

Company	Great Western Oil & Gas LLC
Well	HCW 24-14
Field	LaPoudre
County	Weld
State/Province	Colorado

Company
Well
Field
County
State/Prv

Location
708' FSL & 660' FWL
SW SW
Sec 24, Twp - 6N, Rge - 67W

Other Services
Density
Neutron

Elevation
K.B. 4774
D.F. 4773
G.L. 4758

Permanent Datum	GL	Elevation	4758
Log Measured From	KB		
Drilling Measured From	KB		

Date	February 5, 2011		
Run Number	1		
Depth Driller	7298		
Depth Logger	7297		
Bottom Logged Interval	7297		
Top Log Interval	Casing		
Casing Driller	577		
Casing Logger	581		
Bit Size	7-7/8"		
Type Fluid in Hole	Chem Gel		
Density / Viscosity	9.6 / 50		
pH / Fluid Loss	9.0 / 10.4		
Source of Sample	Flowline		
Rm @ Meas. Temp	3.63 @ 67° F		
Rmf @ Meas. Temp	2.90 @ 67° F		
Rmc @ Meas. Temp	4.36 @ 67° F		
Source of Rmf / Rmc	Measure / Calc		
Rm @ BHT	1.10 @ 209° F		
Time Circulation Stopped	1300		
Time Logger on Bottom	2030		
Maximum Recorded Temperature	209° F		
Equipment Number	52		
Location	Brighton, CO		
Recorded By	Matt Gill		
Witnessed By	Jay Pape	Mark Scanniello	

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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 7
Thank you for using Phoenix Surveys.
API #: 05-123-31498-00

Database File:	11430.db
Dataset Pathname:	final
Presentation Format:	dil1
Dataset Creation:	Sat Feb 05 20:58:52 2011
Charted by:	Depth in Feet scaled 1:240

30 Gamma Ray (GAPI) 130

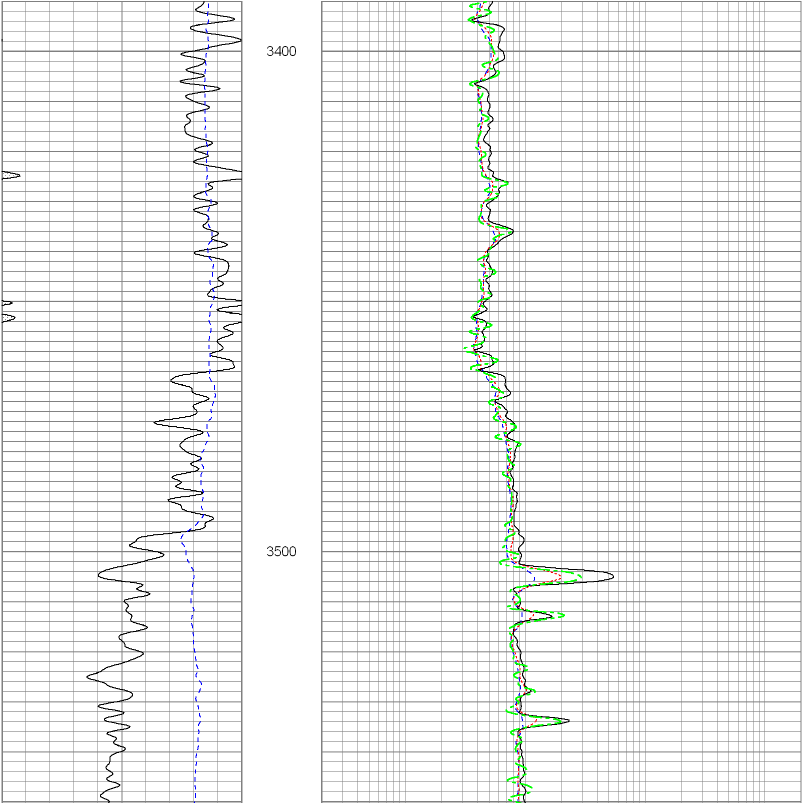
50 SP (mV) 150

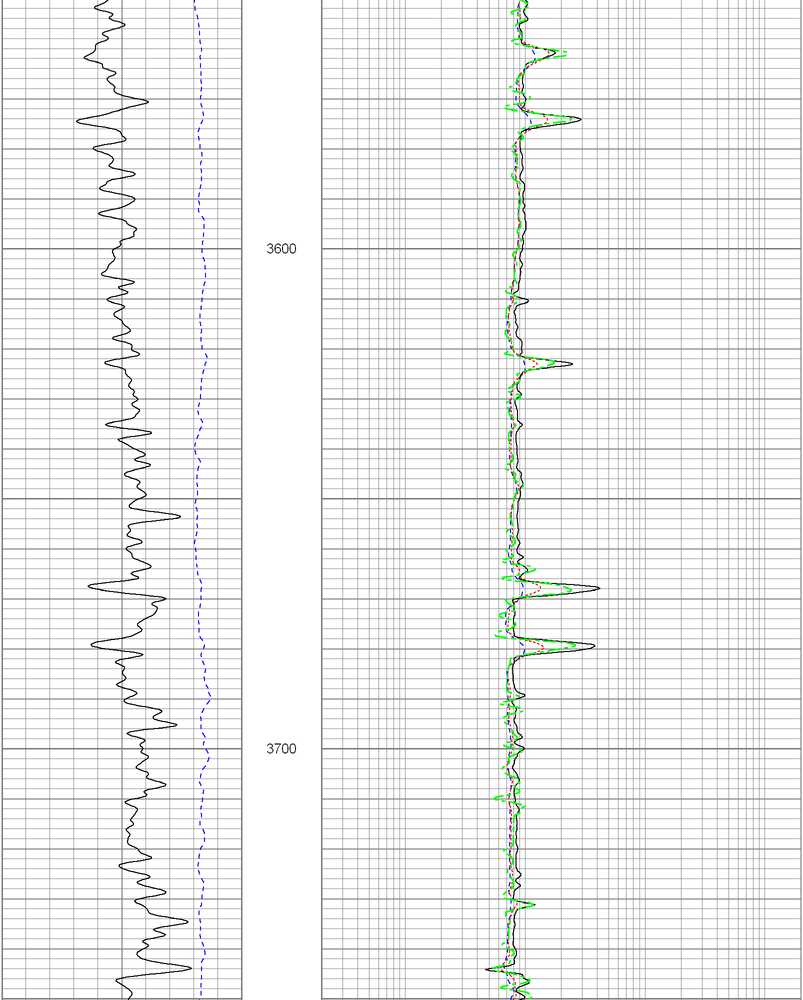
0.2 Deep Resistivity (Ohm-m) 2000

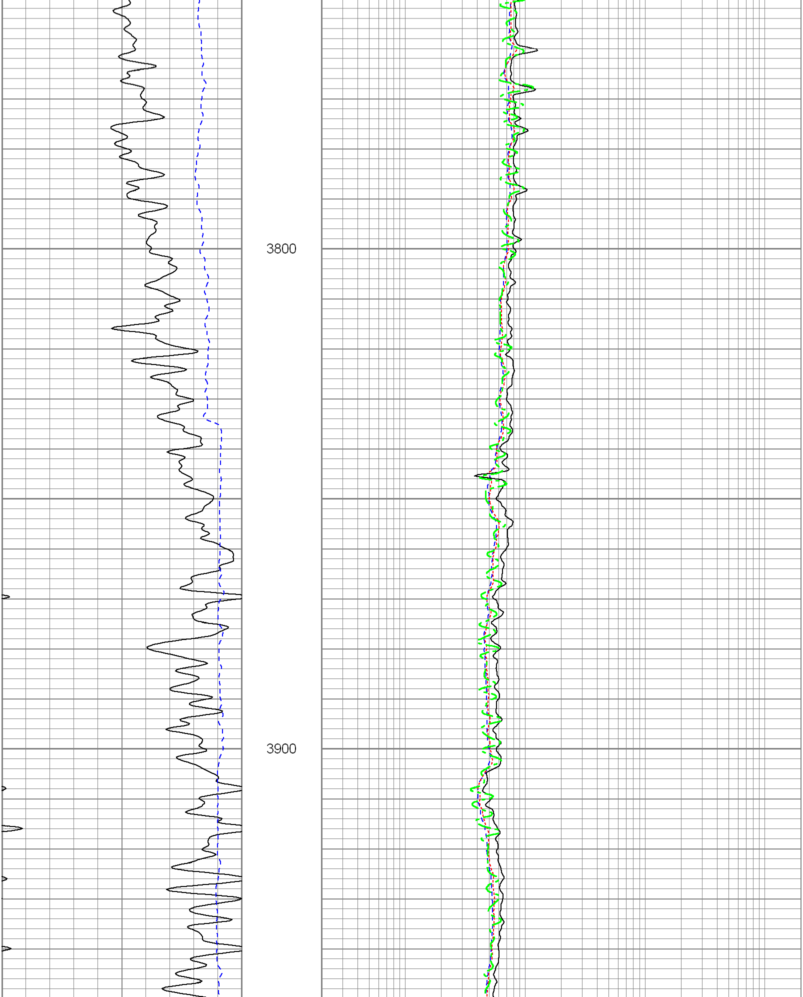
0.2 Medium Resistivity (Ohm-m) 2000

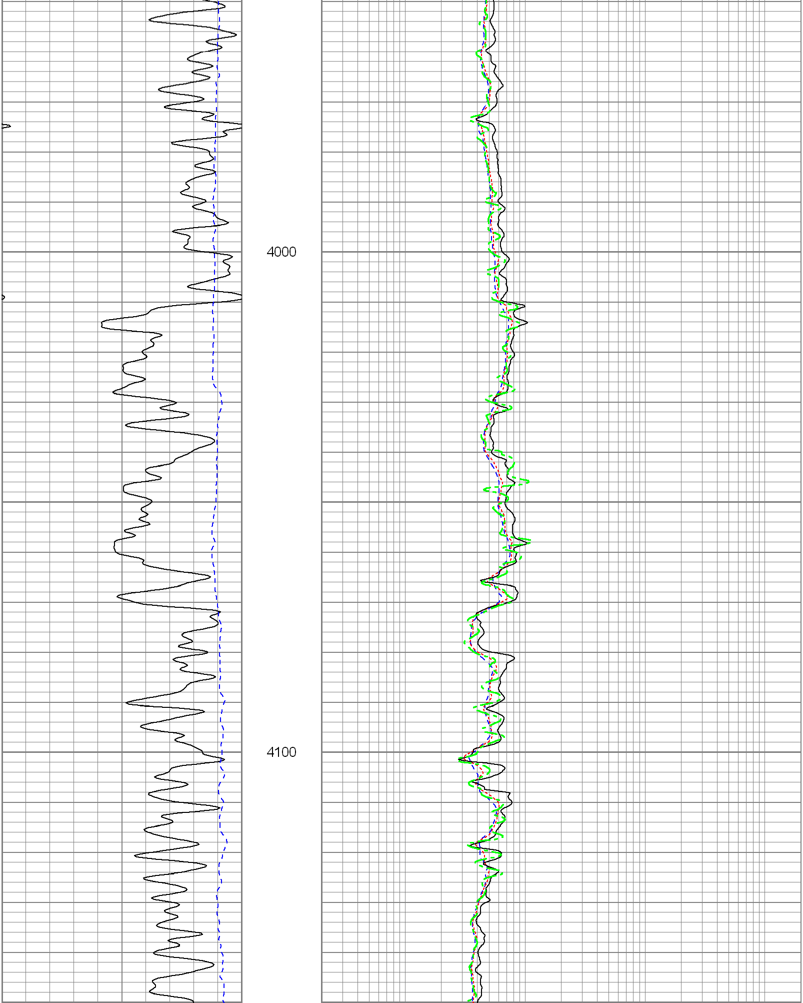
0.2 Shallow Resistivity (Ohm-m) 2000

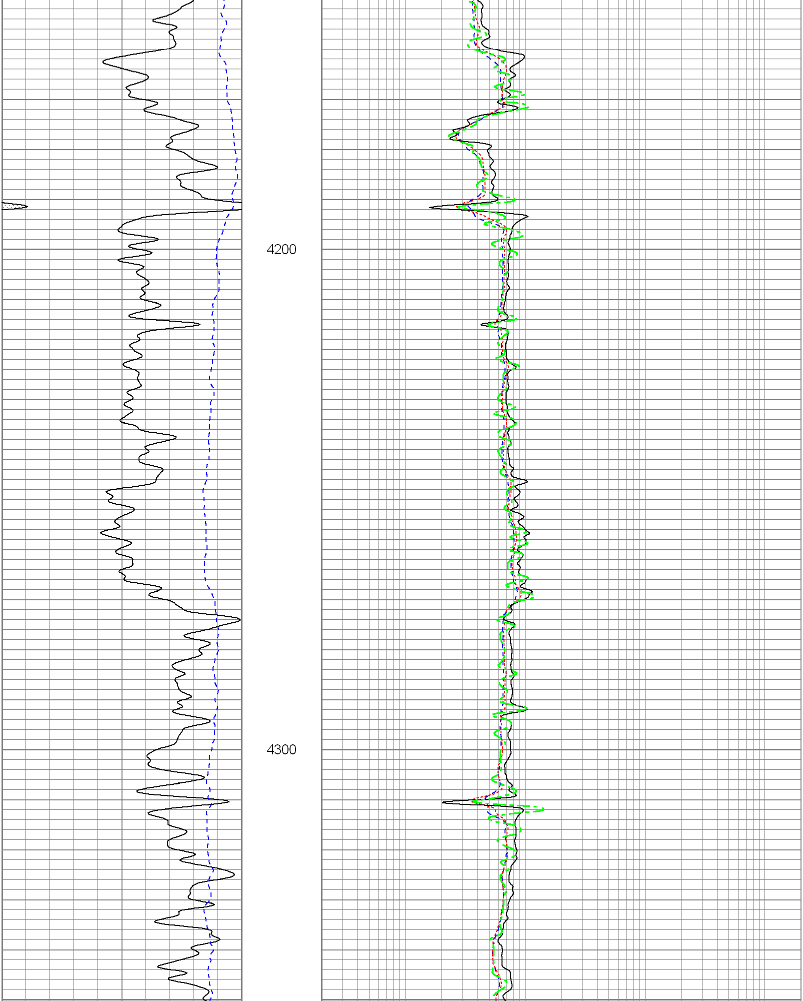
0.2 Rt (Ohm-m) 2000

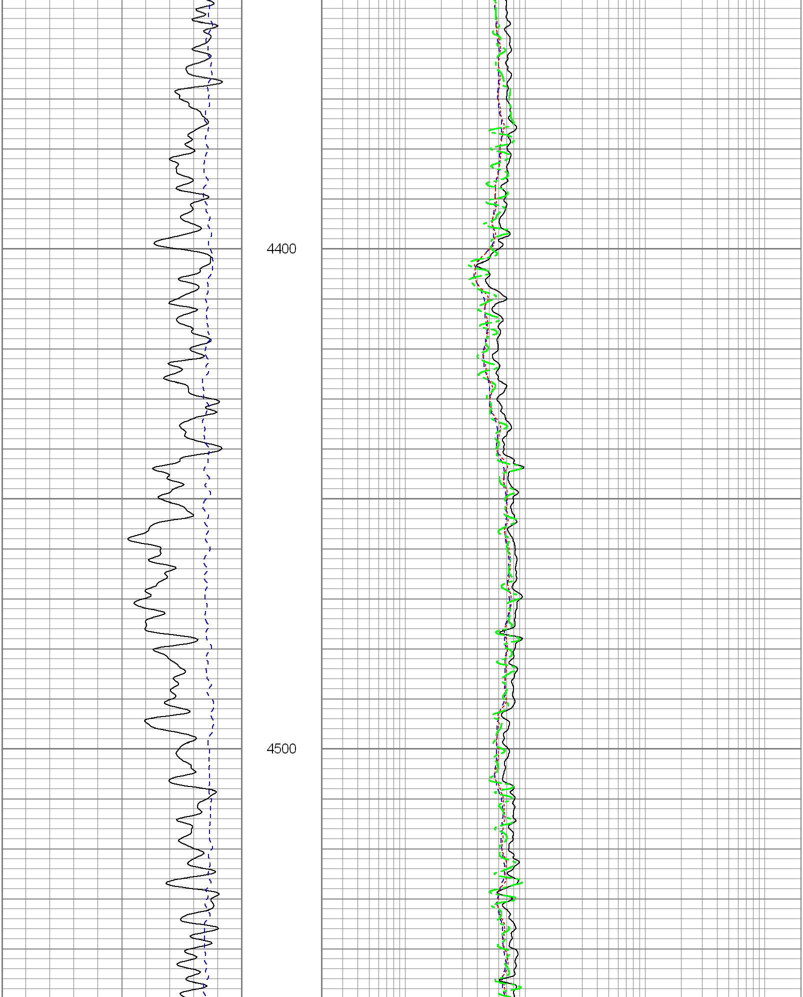


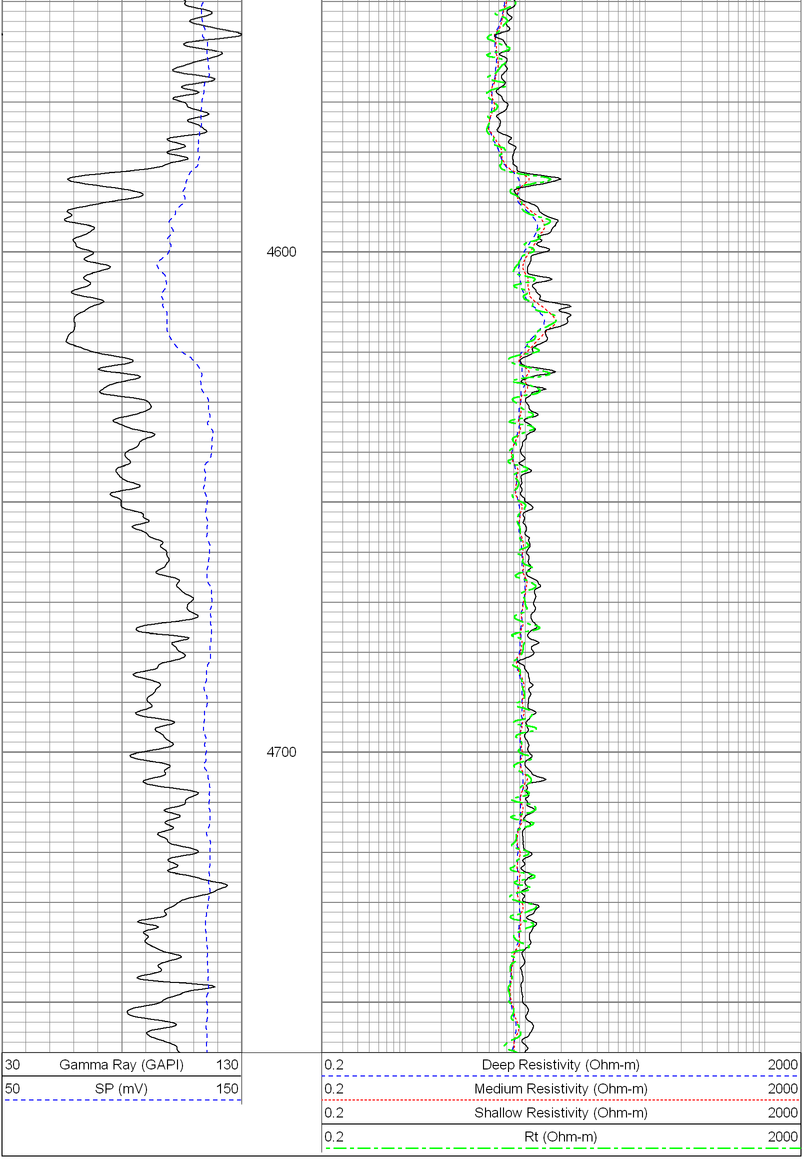












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Dataset Pathname: final
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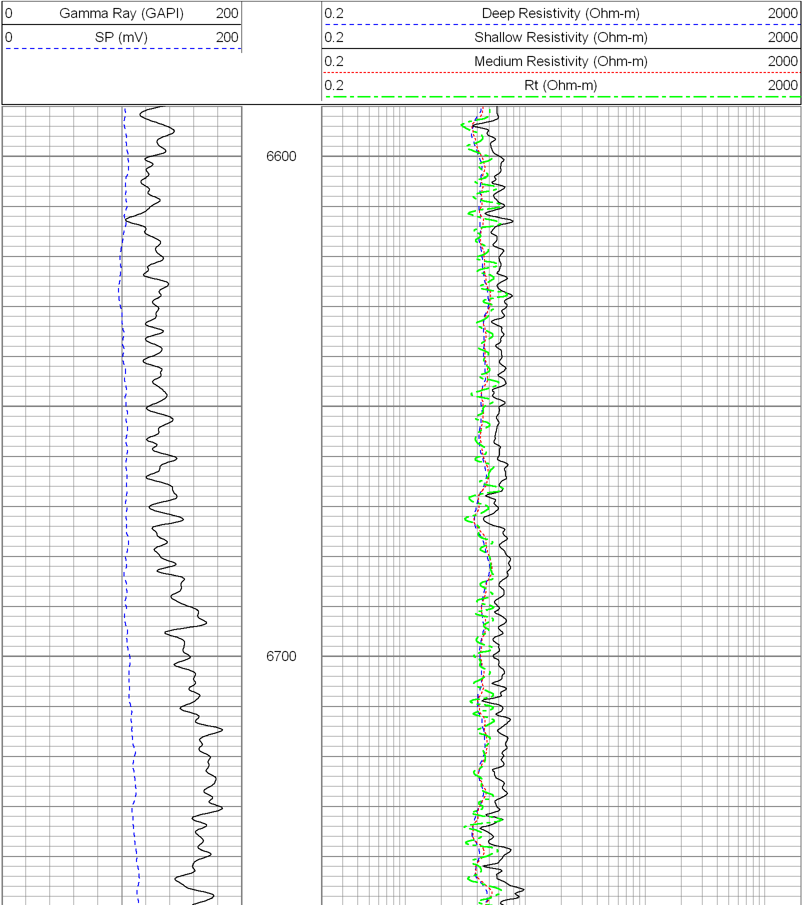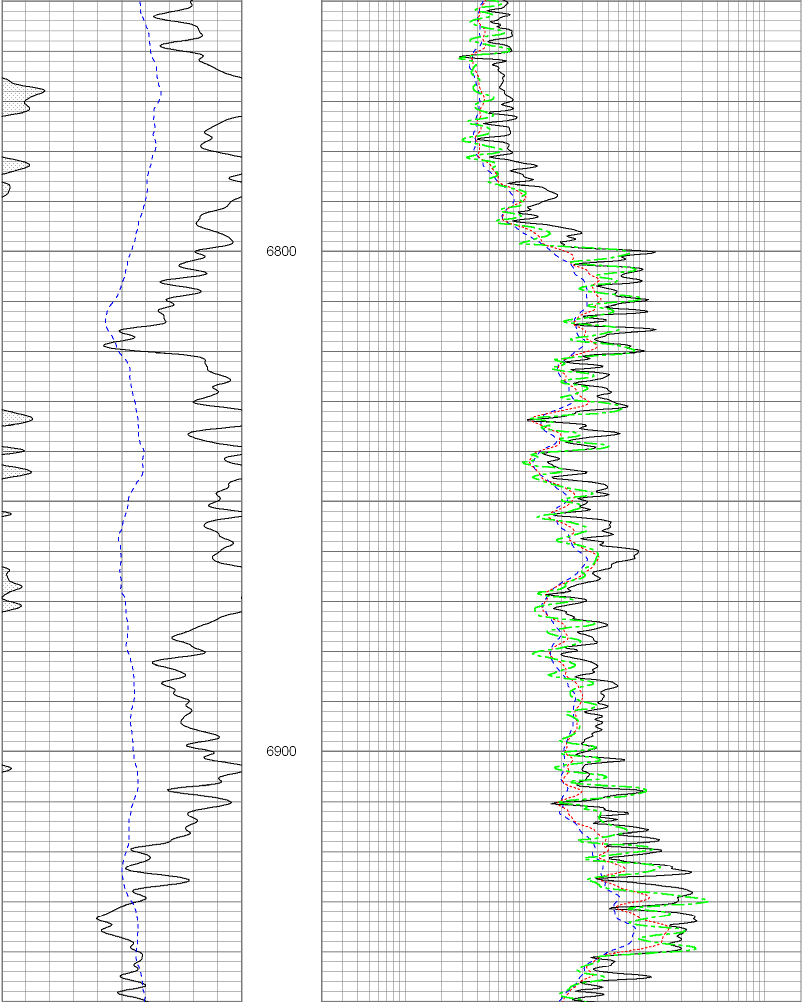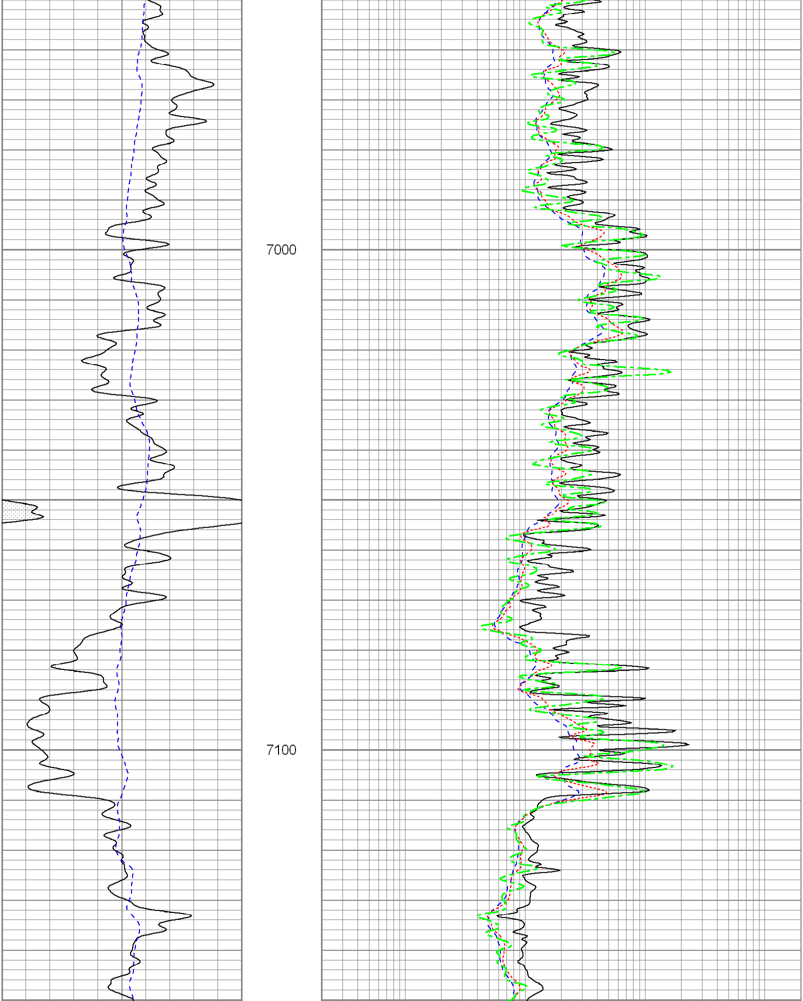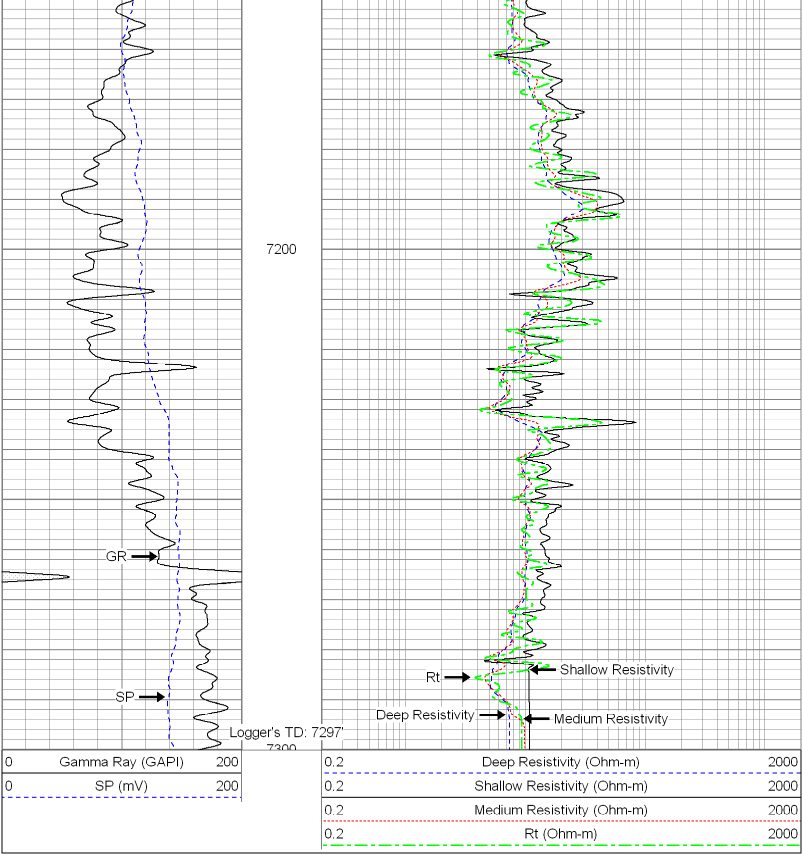
0 Gamma Ray (GAPI) 200
0 SP (mV) 200
0.2 Deep Resistivity (Ohm-m) 2000
0.2 Shallow Resistivity (Ohm-m) 2000
0.2 Medium Resistivity (Ohm-m) 2000
0.2 Rt (Ohm-m) 2000
6600
6700