PHOENIX SURVEYS, INC.

HIGH RESOLUTION INDUCTION

Company
Well
Field
County
State/Prv

Company	Great Western Oil & Gas LLC
Well	Hood 41-20
Field	Bracewell
County	Weld
State/Province	Colorado
Location	661' FNL & 661' FEL NENE Sec. 20, Twp. 6N, Rge. 66W

Other Services
Density
Neutron

Elevation
K.B. 4774
D.F. 4773
G.L. 4760

Permanent Datum	GL	Elevation	4760
Log Measured From	KB		
Drilling Measured From	KB		

Date	December 21, 2011		
Run Number	1		
Depth Driller	7351		
Depth Logger	7351		
Bottom Logged Interval	7351		
Top Log Interval	Casing		
Casing Driller	689		
Casing Logger	689		
Bit Size	7-7/8"		
Type Fluid in Hole	Chem Gel		
Density / Viscosity	9.3 / 50		
pH / Fluid Loss	7.0 / 10.4		
Source of Sample	Flowline		
Rm @ Meas. Temp	1.9 @ 65 F		
Rmf @ Meas. Temp	1.4 @ 65 F		
Rmc @ Meas. Temp	4.4 @ 65 F		
Source of Rmf / Rmc	Measure / Calc		
Rm @ BHT	0.59 @ 207 F		
Time Circulation Stopped	1400		
Time Logger on Bottom	2100		
Maximum Recorded Temperature	207 F		
Equipment Number	52		
Location	Brighton, CO		
Recorded By	Schuman	Keever	
Witnessed By	Jay Pape		

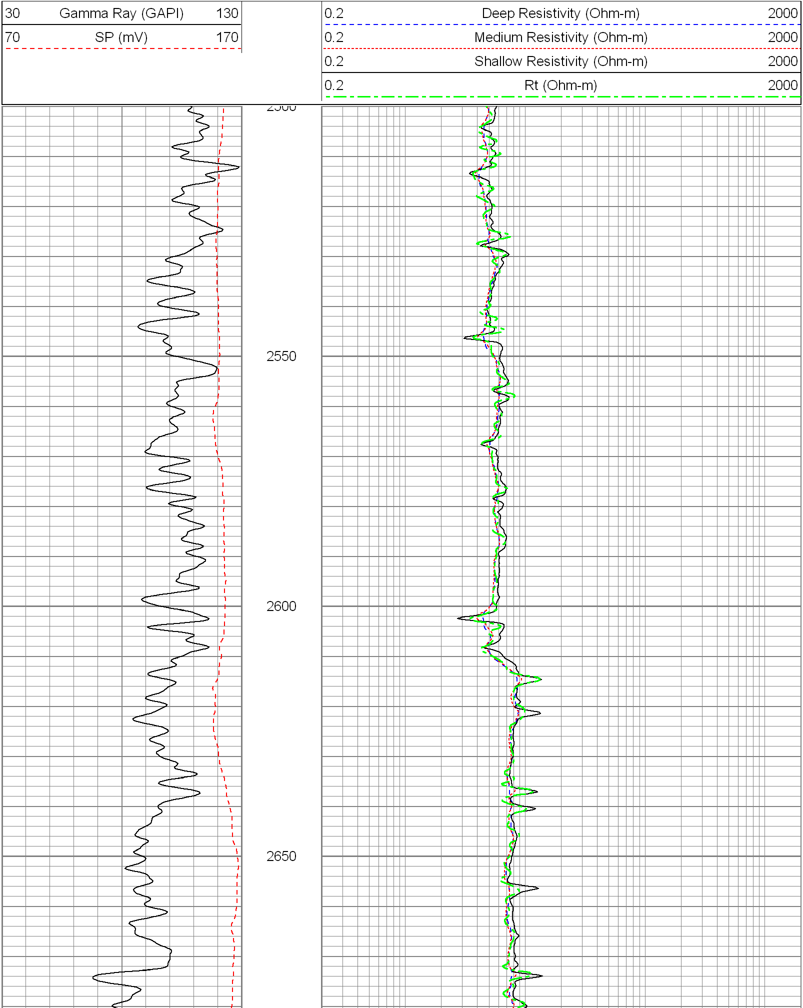
<<< Fold Here >>>

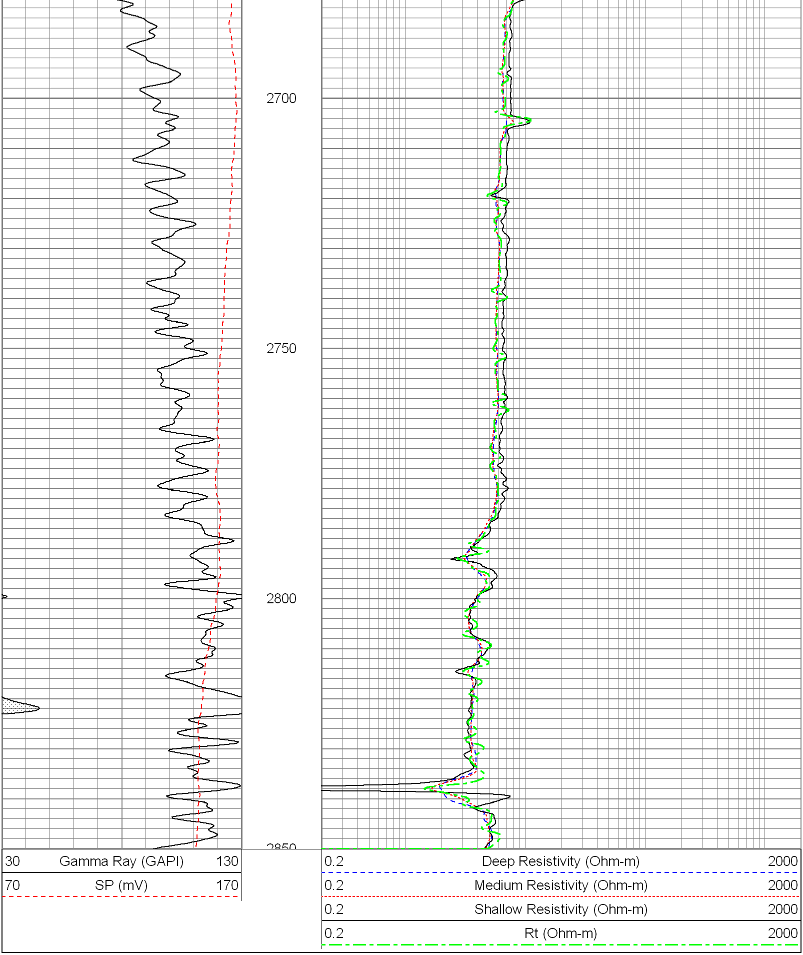
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

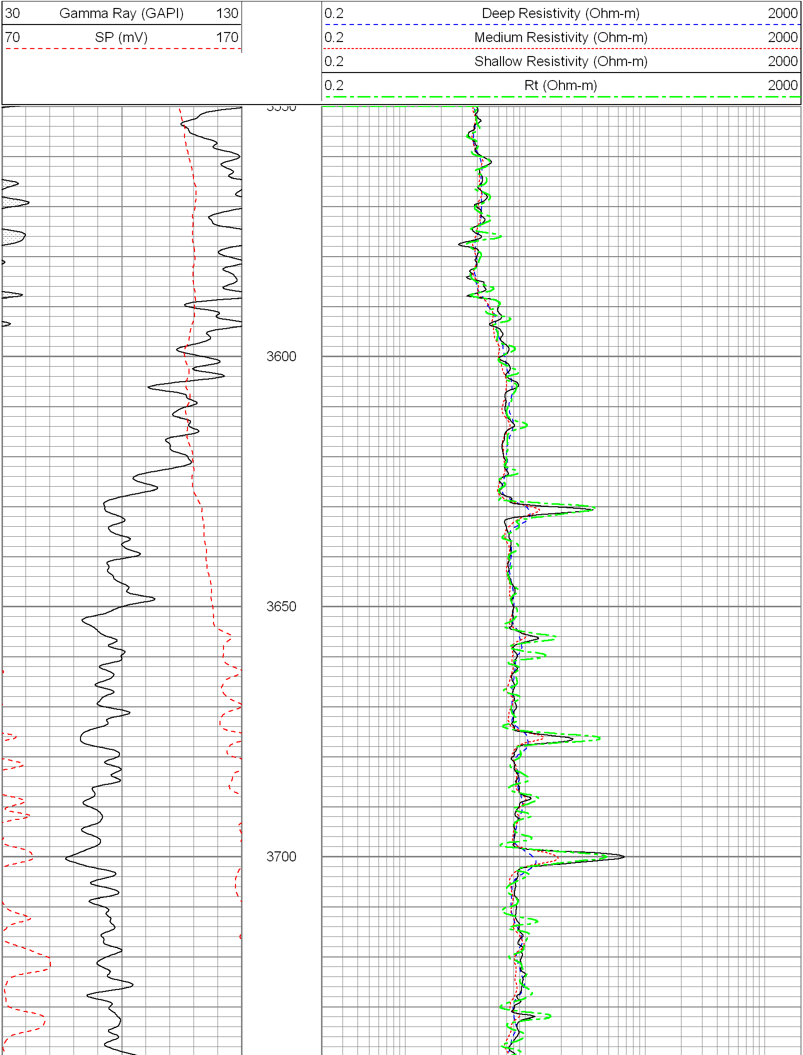
Annular volume calculated for 4.5" casing
Cade Rig 22
Thank you for using Phoenix Surveys!!
Your crew today: Shaun, Geno & Kelly
API #: 05-123-32829

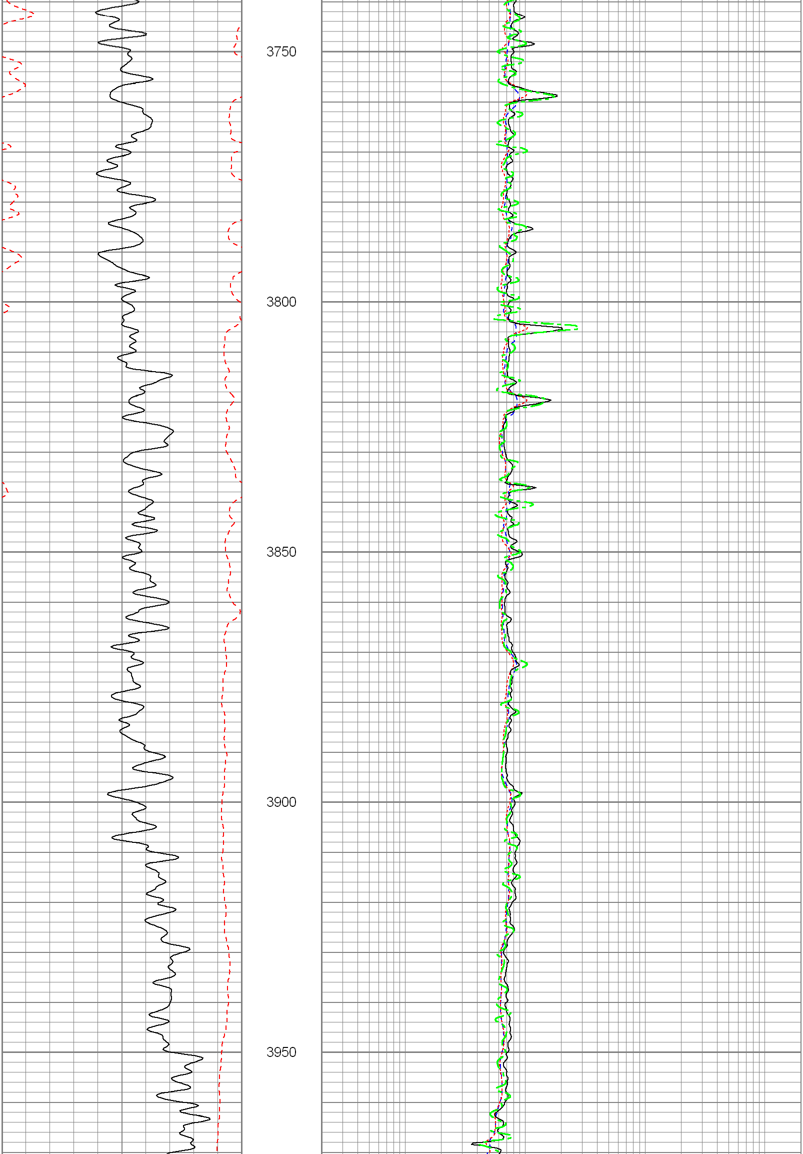
Database File: 12467.db
Dataset Pathname: main
Presentation Format: dil1
Dataset Creation: Wed Dec 21 22:32:02 2011
Charted by: Depth in Feet scaled 1:240

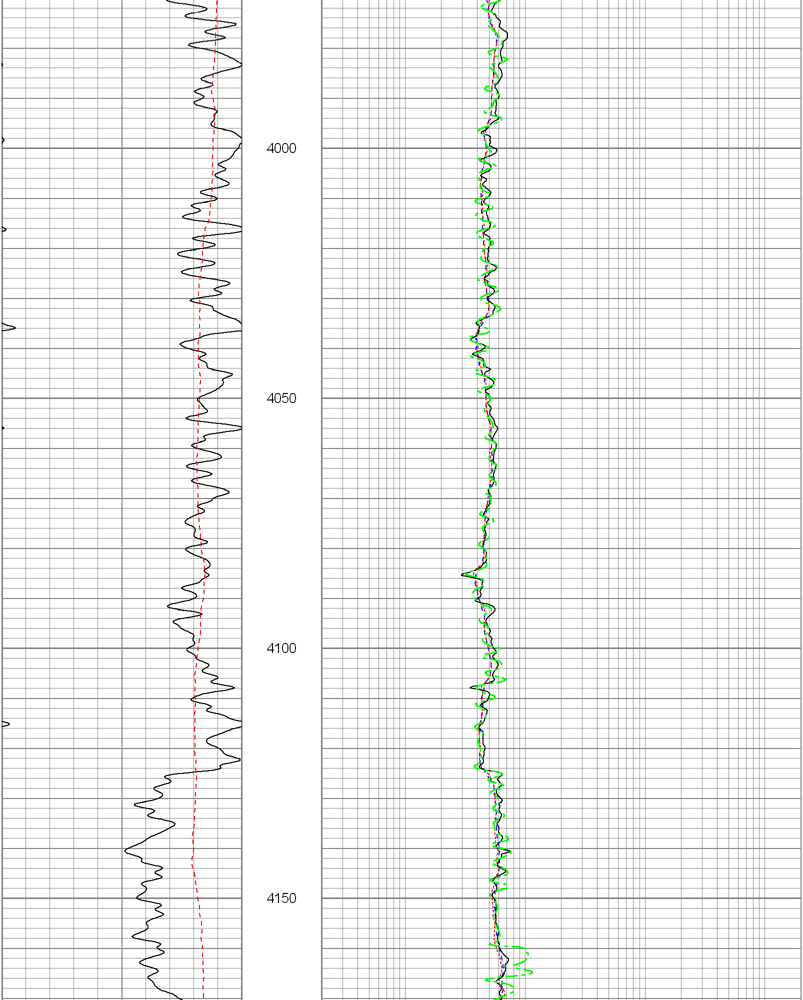


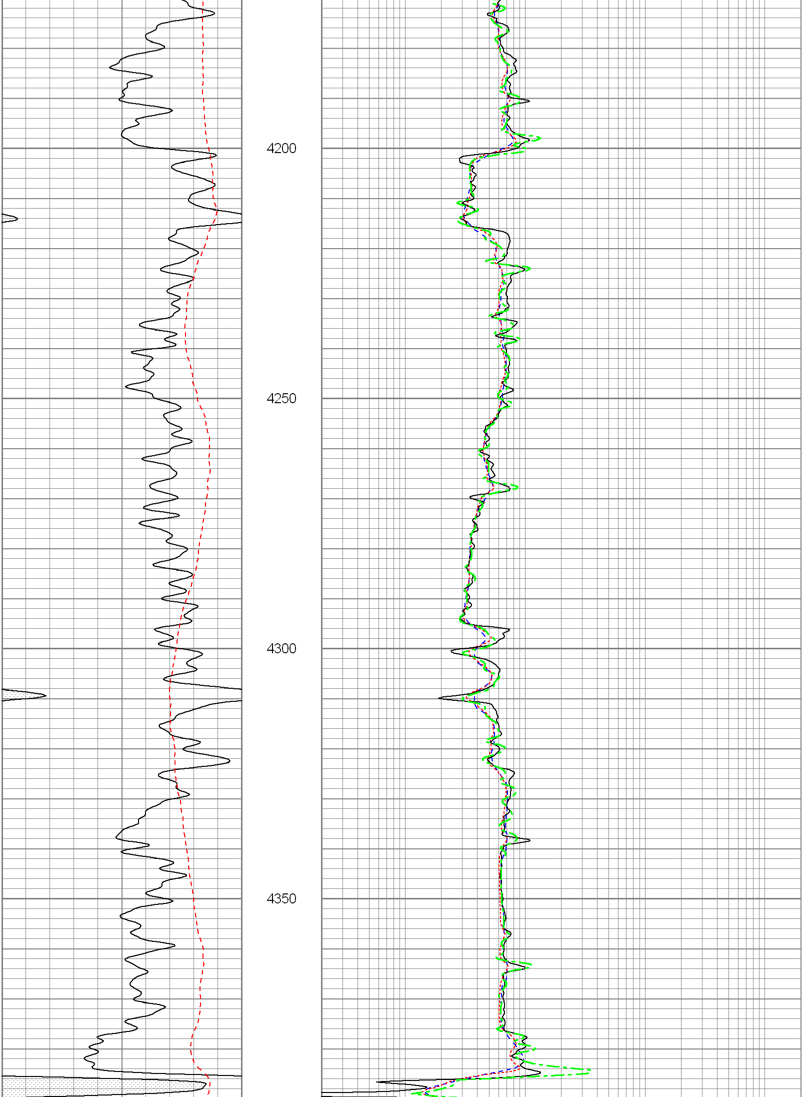


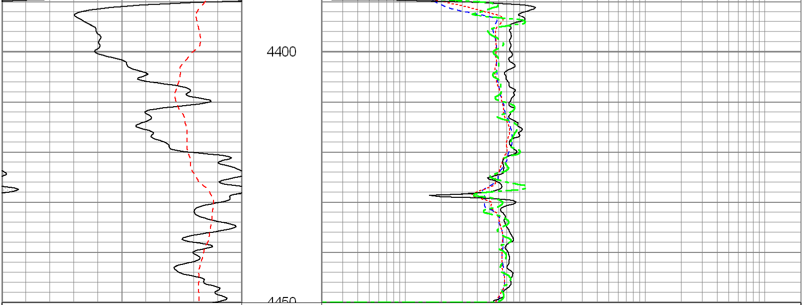
Database File:	12467.db
Dataset Pathname:	main
Presentation Format:	dil1
Dataset Creation:	Wed Dec 21 22:32:02 2011
Charted by:	Depth in Feet scaled 1:240











30 Gamma Ray (GAPI) 130

70 SP (mV) 170

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

Database File:	12467.db
Dataset Pathname:	main
Presentation Format:	dil1
Dataset Creation:	Wed Dec 21 22:32:02 2011
Charted by:	Depth in Feet scaled 1:240

30 Gamma Ray (GAPI) 130

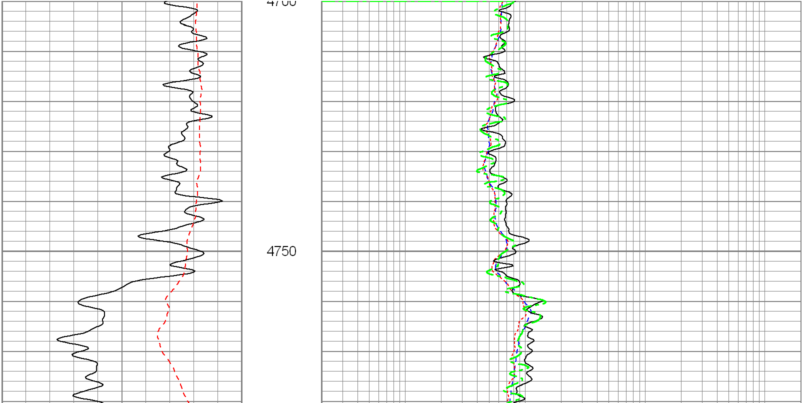
70 SP (mV) 170

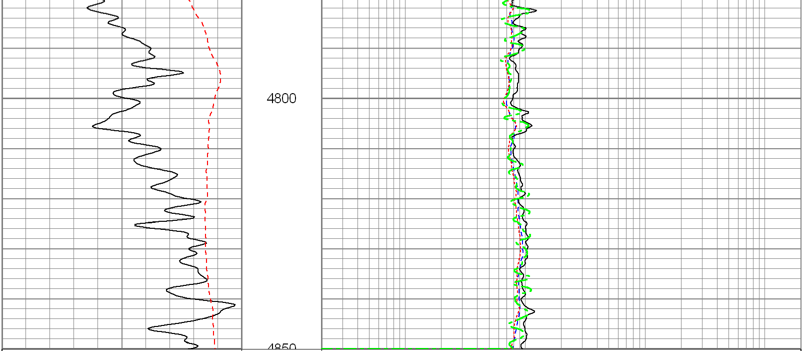
0.2 Deep Resistivity (Ohm-m) 2000

0.2 Medium Resistivity (Ohm-m) 2000

0.2 Shallow Resistivity (Ohm-m) 2000

0.2 Rt (Ohm-m) 2000



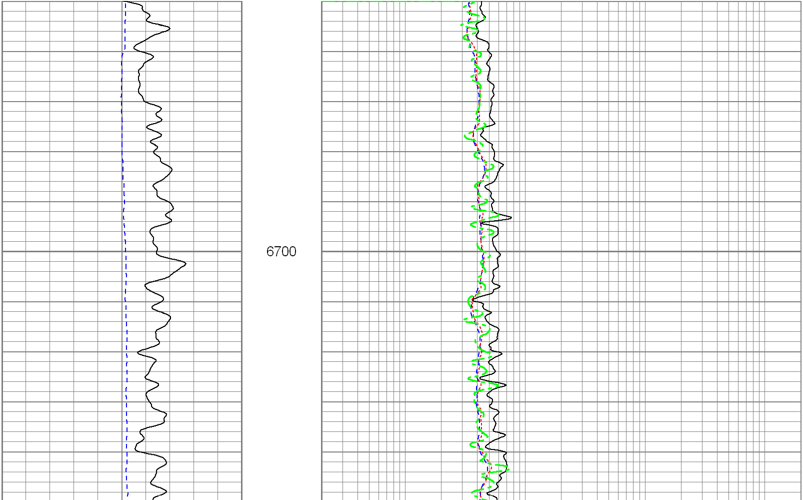
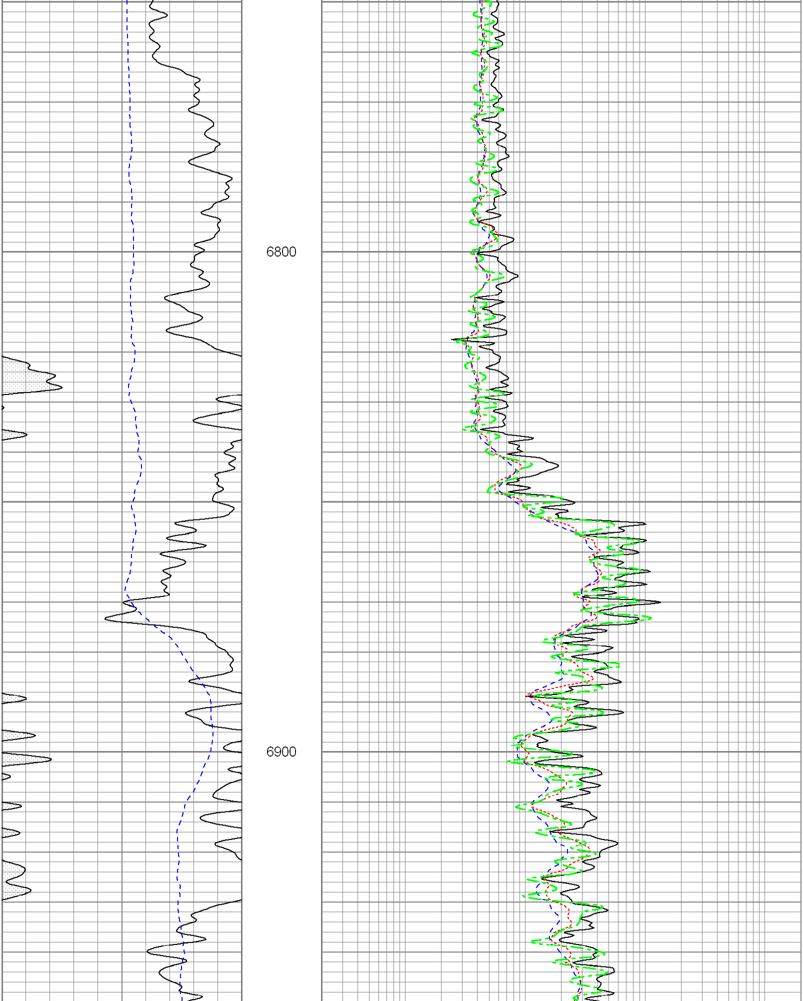
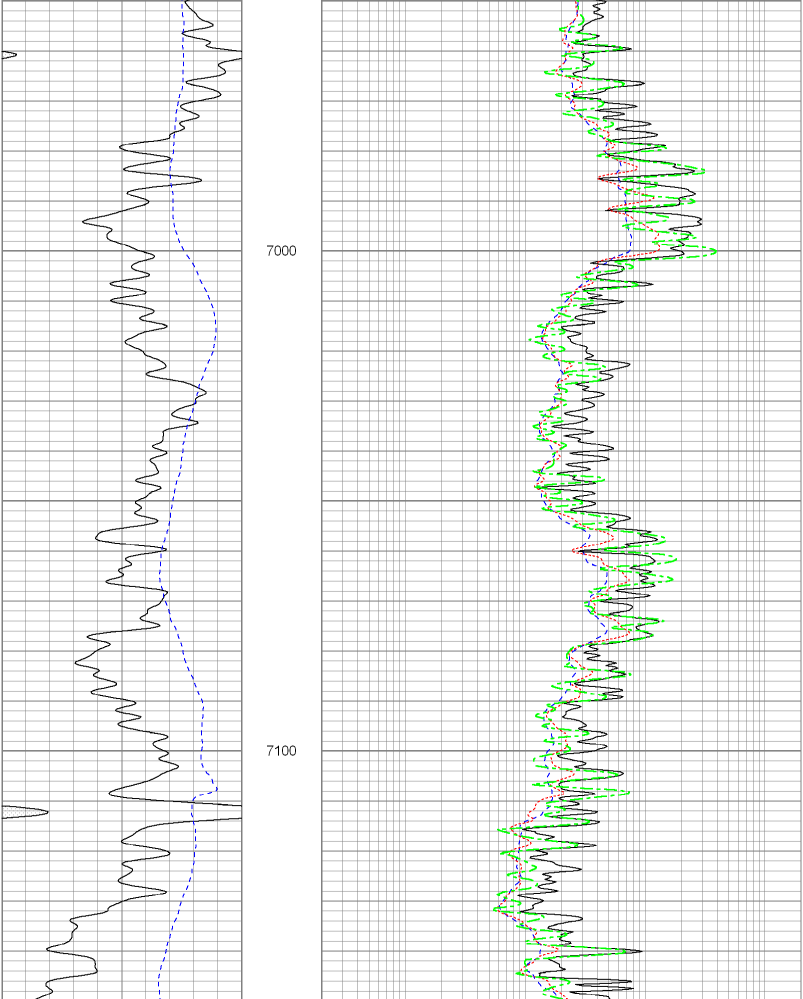
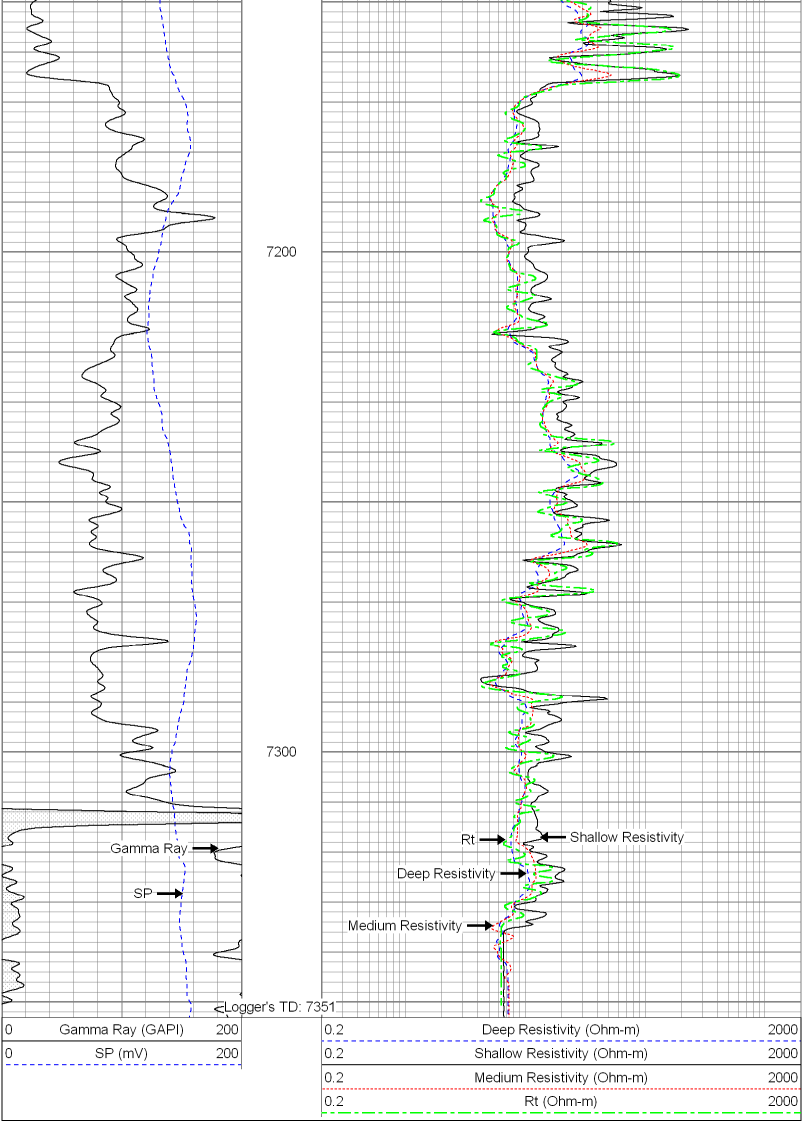


30	Gamma Ray (GAPI)	130
70	SP (mV)	170

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

Database File:	12467.db
Dataset Pathname:	main
Presentation Format:	dil
Dataset Creation:	Wed Dec 21 22:32:02 2011
Charted by:	Depth in Feet scaled 1:240

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