PSI
PHOENIX SURVEYS, INC.

HIGH RESOLUTION INDUCTION

Company
Well
Field
County
State/Prv

Company	Great Western Oil & Gas LLC		
Well	Fritzler 6-8-17		
Field	Wattenberg		
County	Weld	State/Province	Colorado

Location SHL: 660' FSL & 668' FEL SE SE
BHL: 74' FSL & 1302' FEL SE SE
Sec. 17, Twp. 6N, Rge. 66W

Other Services
Density
Neutron

Permanent Datum	GL	Elevation	4771
Log Measured From	KB		
Drilling Measured From	KB		

Elevation
K.B. 4785
D.F. 4784
G.L. 4771

Date	November 21, 2011		
Run Number	1		
Depth Driller	7418		
Depth Logger	7409		
Bottom Logged Interval	7409		
Top Log Interval	Casing		
Casing Driller	690		
Casing Logger	690		
Bit Size	7-7/8"		
Type Fluid in Hole	Chem Gel		
Density / Viscosity	9.2 / 52		
pH / Fluid Loss	8.0 / 8.8		
Source of Sample	Mudpit		
Rm @ Meas. Temp	3.28 @ 72° F		
Rmf @ Meas. Temp	2.52 @ 72° F		
Rmc @ Meas. Temp	3.89 @ 72° F		
Source of Rmf / Rmc	Measure / Calc		
Rm @ BHT	1.18 @ 206° F		
Time Circulation Stopped	0330		
Time Logger on Bottom	1045		
Maximum Recorded Temperature	206° F		
Equipment Number	50		
Location	Brighton, CO		
Recorded By	Randy Conley		
Witnessed By	Jay Pape		

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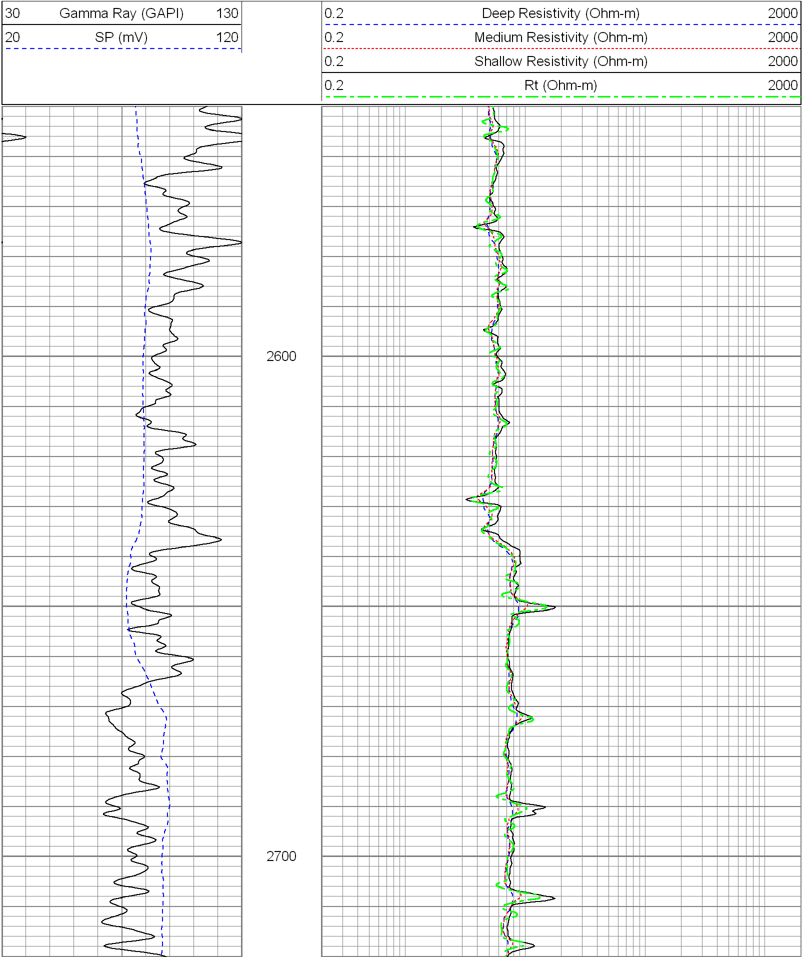
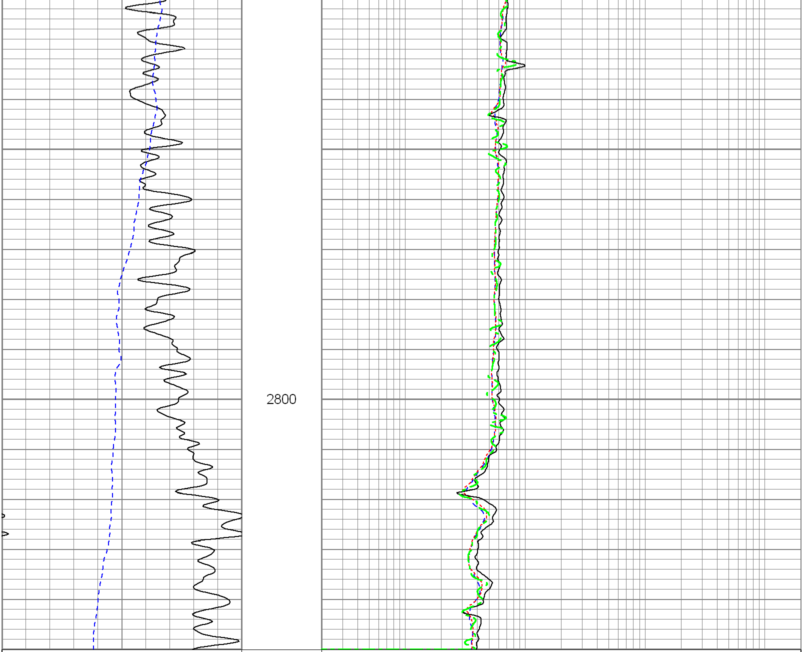
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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 4-1/2" casing
Cade Drilling Rig 22
Thank you for using Phoenix Surveys!!
API #: 05-123-33246-00

Database File: 12051.db
Dataset Pathname: final
Presentation Format: dil1
Dataset Creation: Mon Nov 21 11:08:48 2011
Charted by: Depth in Feet scaled 1:240





30	Gamma Ray (GAPI)	130
20	SP (mV)	120

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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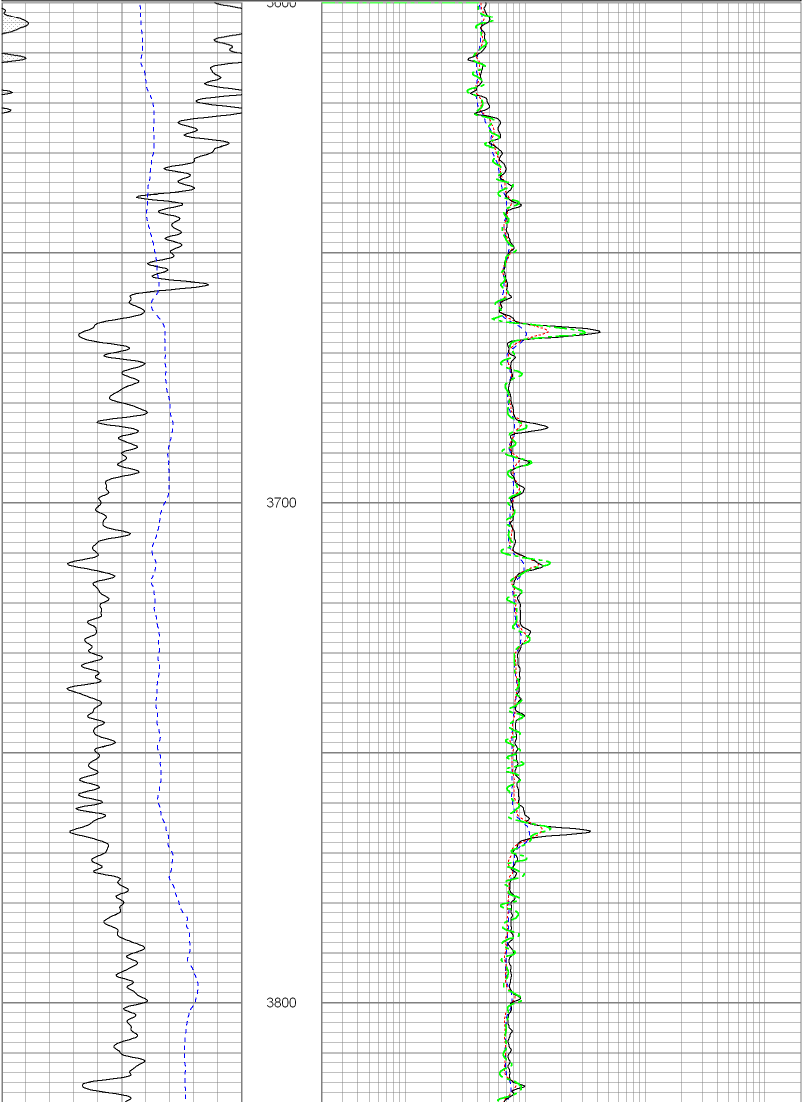

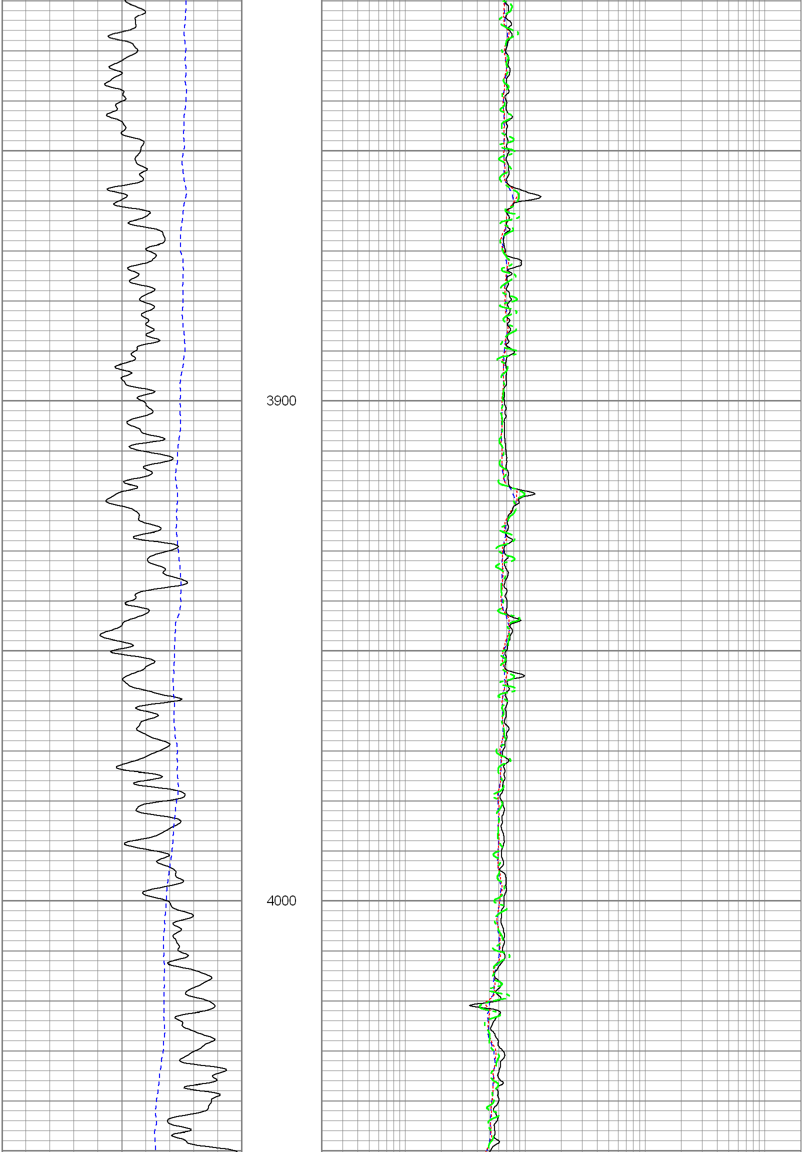

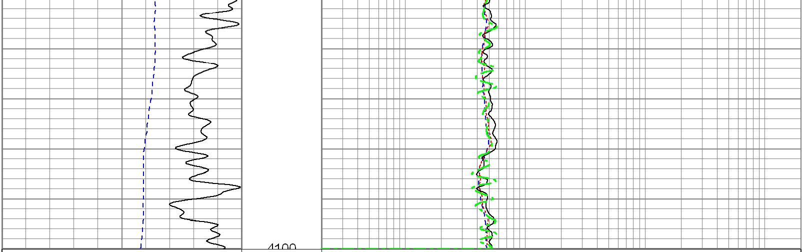

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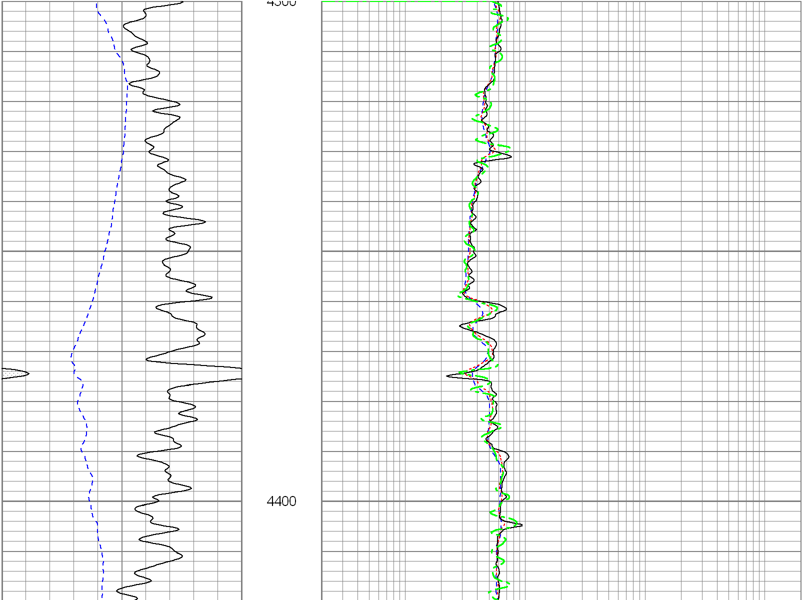

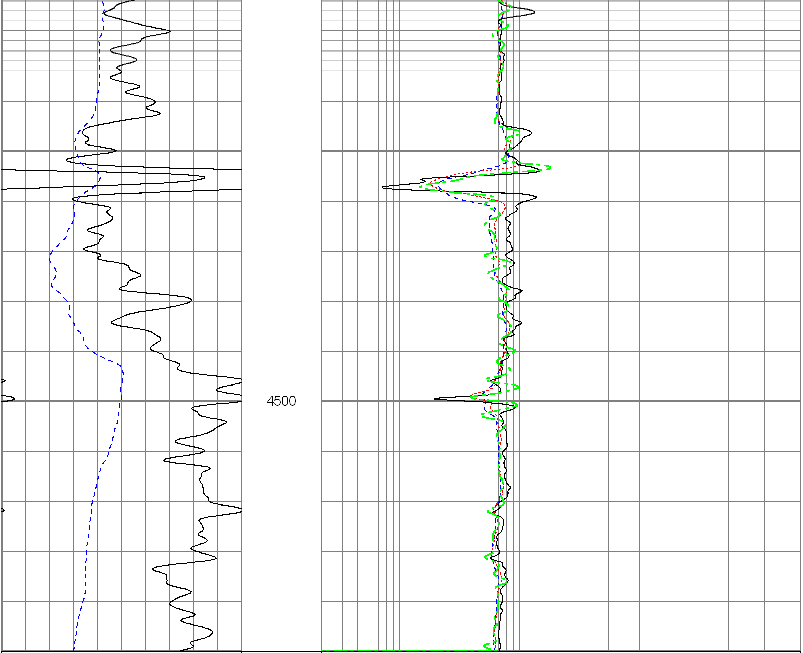

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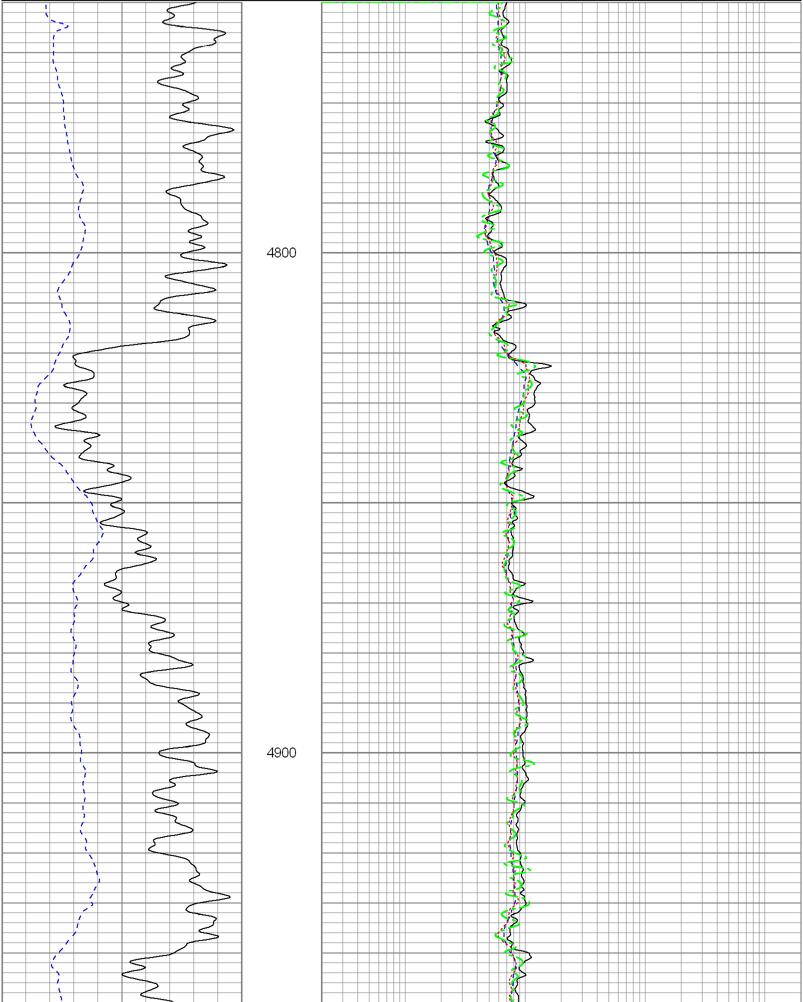

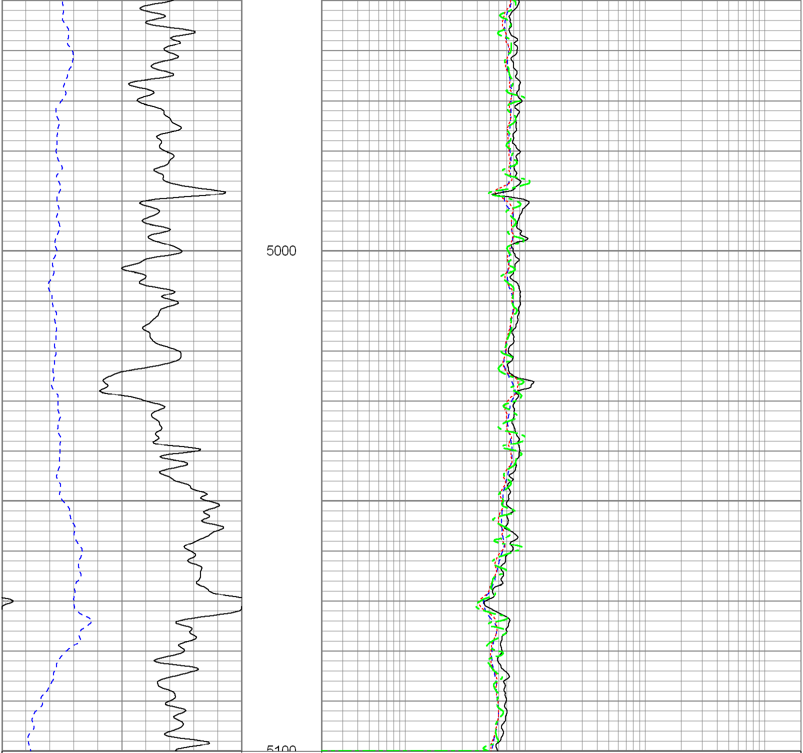

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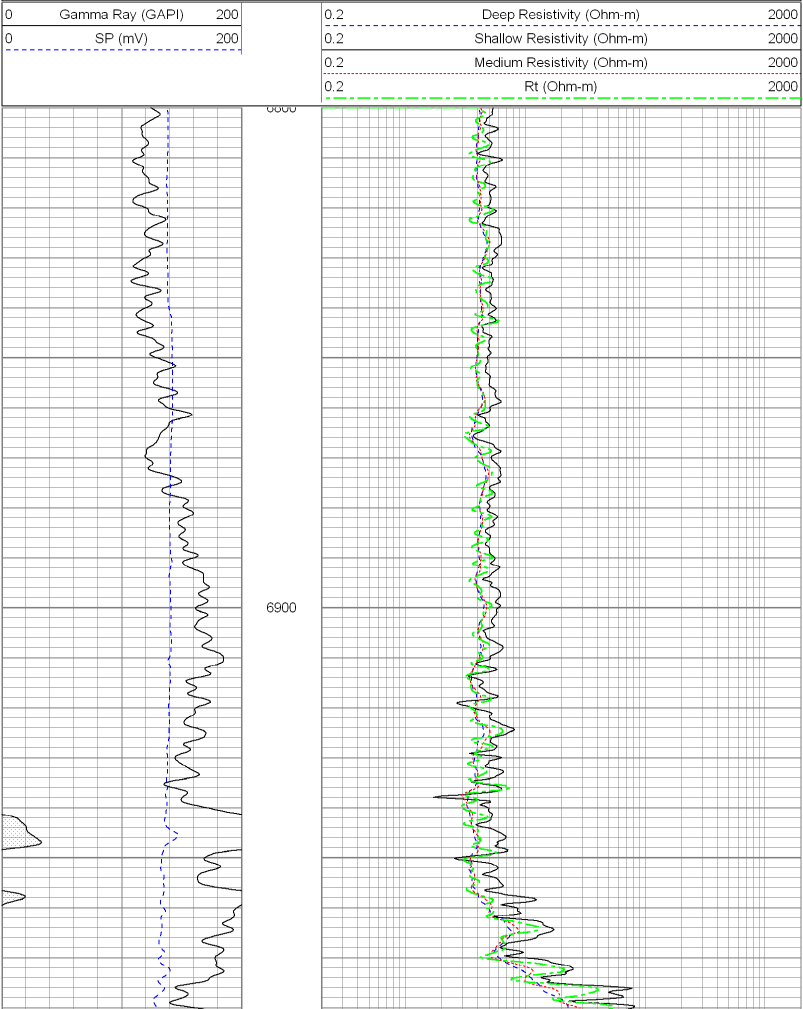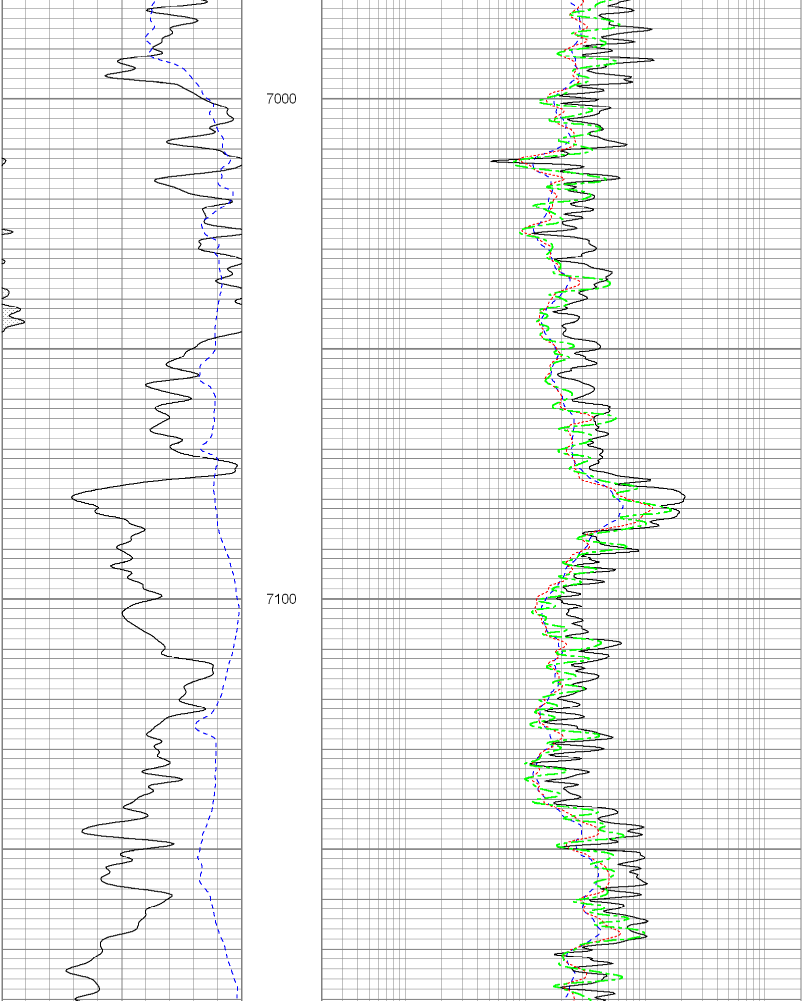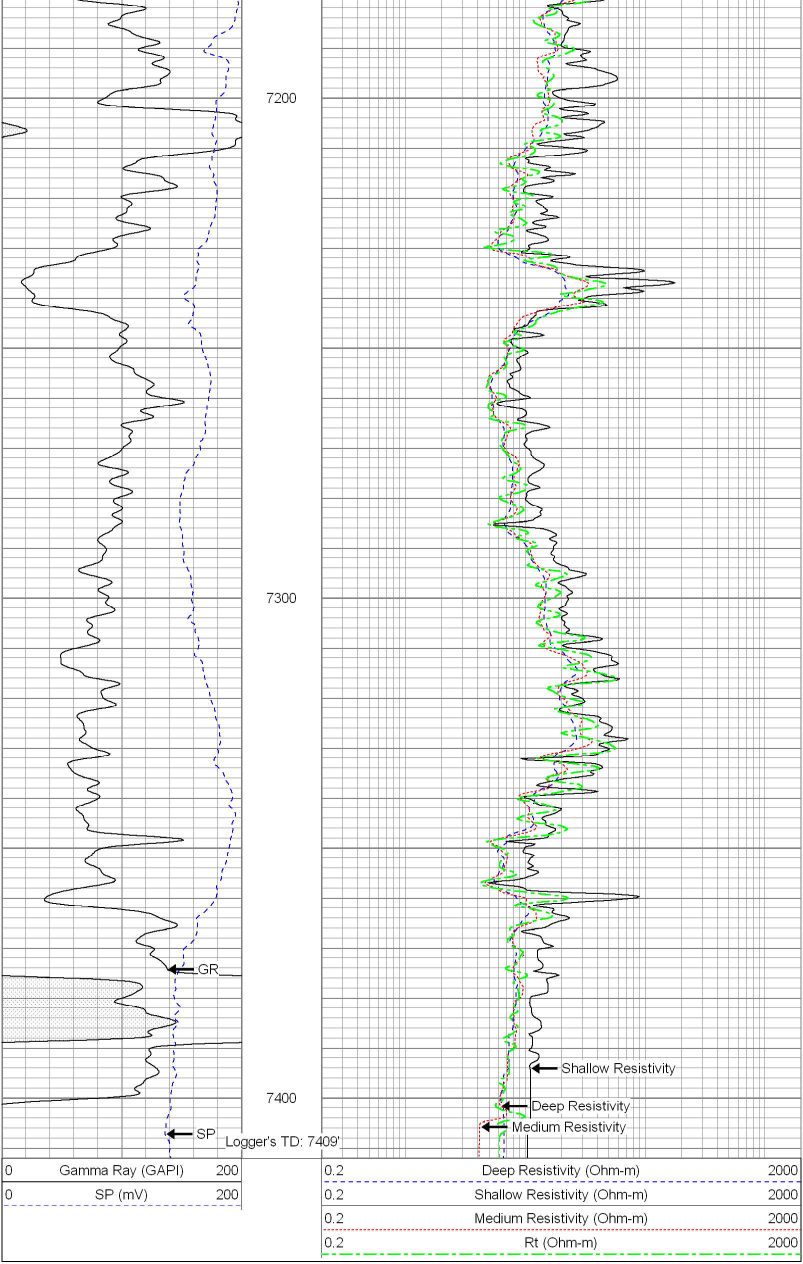
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6900