PHOENIX SURVEYS, INC.

# HIGH RESOLUTION INDUCTION

Company
Well
Field
County
State/Prv

| | |
|---|---|
| Company | Great Western Oil & Gas LLC |
| Well | Gustafson 31-11 |
| Field | Eaton |
| County | Weld |
| State/Province | Colorado |

Location
494' FNL & 794' FWL
NWNW
Sec 31, Twp - 7N, Rge - 65W

Other Services
Density
Neutron

Permanent Datum GL Elevation 4829
Log Measured From KB
Drilling Measured From KB

Elevation
K.B. 4845
D.F. 4844
G.L. 4829

| | | | |
|---|---|---|---|
| Date | March 4, 2011 | | |
| Run Number | 1 | | |
| Depth Driller | 7446 | | |
| Depth Logger | 7450 | | |
| Bottom Logged Interval | 7450 | | |
| Top Log Interval | Casing | | |
| Casing Driller | 563 | | |
| Casing Logger | 563 | | |
| Bit Size | 7+7/8" | | |
| Type Fluid in Hole | Chem Gel | | |
| Density / Viscosity | 9.1 / 50 | | |
| pH / Fluid Loss | 9.5 / 10.0 | | |
| Source of Sample | Flowline | | |
| Rm @ Meas. Temp | 3.30 @ 73 F | | |
| Rmf @ Meas. Temp | 2.10 @ 73 F | | |
| Rmc @ Meas. Temp | 4.05 @ 73 F | | |
| Source of Rmf / Rmc | Measure / Calc | | |
| Rm @ BHT | 1.18 @ 205 F | | |
| Time Circulation Stopped | 1015 | | |
| Time Logger on Bottom | 1815 | | |
| Maximum Recorded Temperature | 205 F | | |
| Equipment Number | 50 | | |
| Location | Brighton, CO | | |
| Recorded By | Schuman | | |
| Witnessed By | Pape | Scanniello | |

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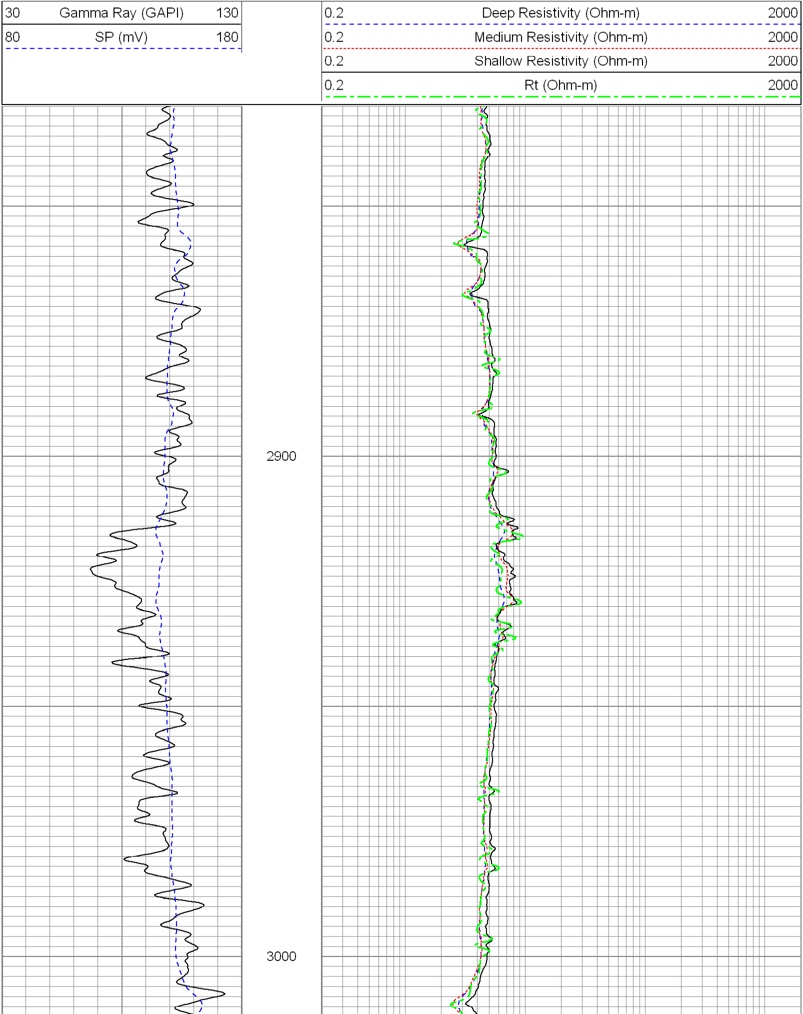
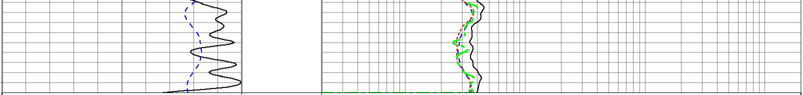
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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 #: 05-123-31295

Database File: 11508.db
Dataset Pathname: main
Presentation Format: dil1
Dataset Creation: Fri Mar 04 20:06:18 2011
Charted by: Depth in Feet scaled 1:240





30 Gamma Ray (GAPI) 130

80 SP (mV) 180

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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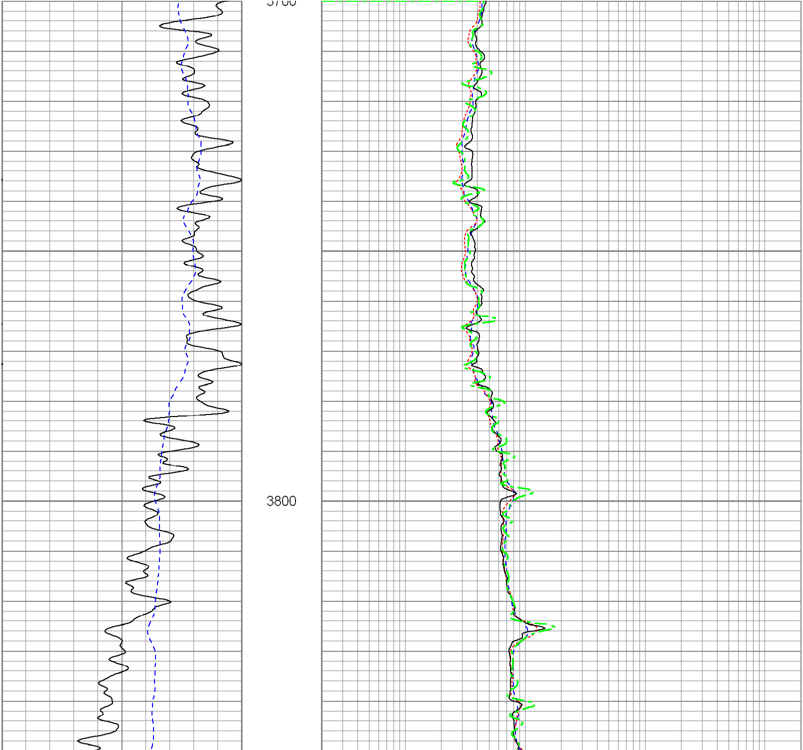

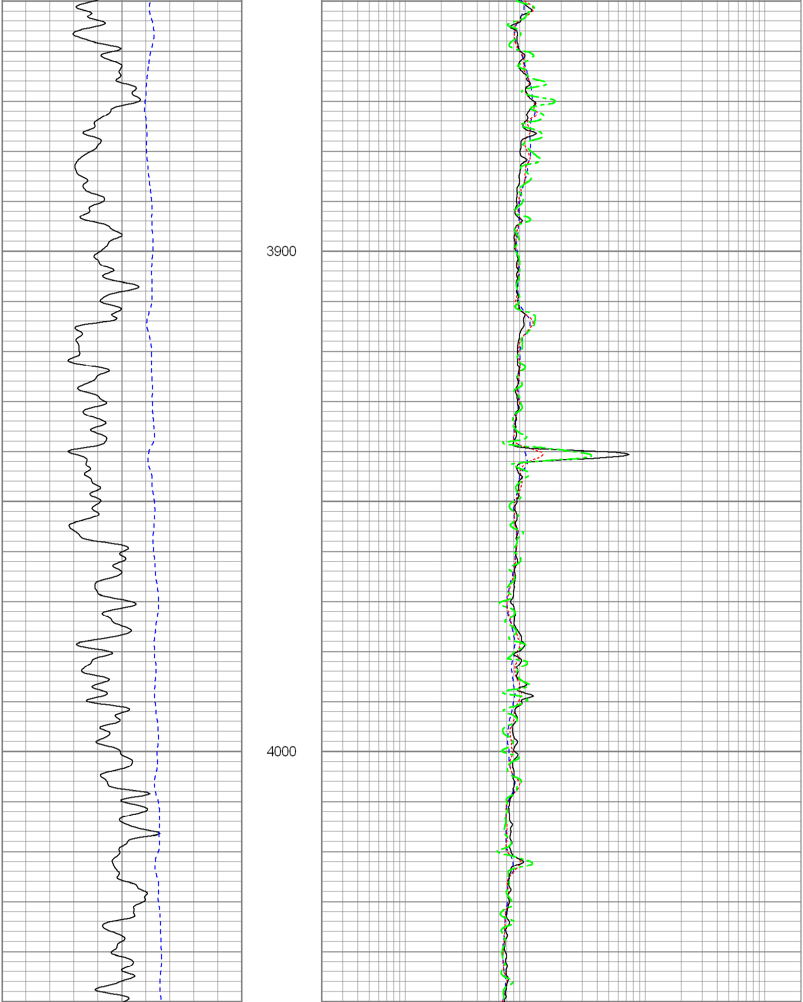

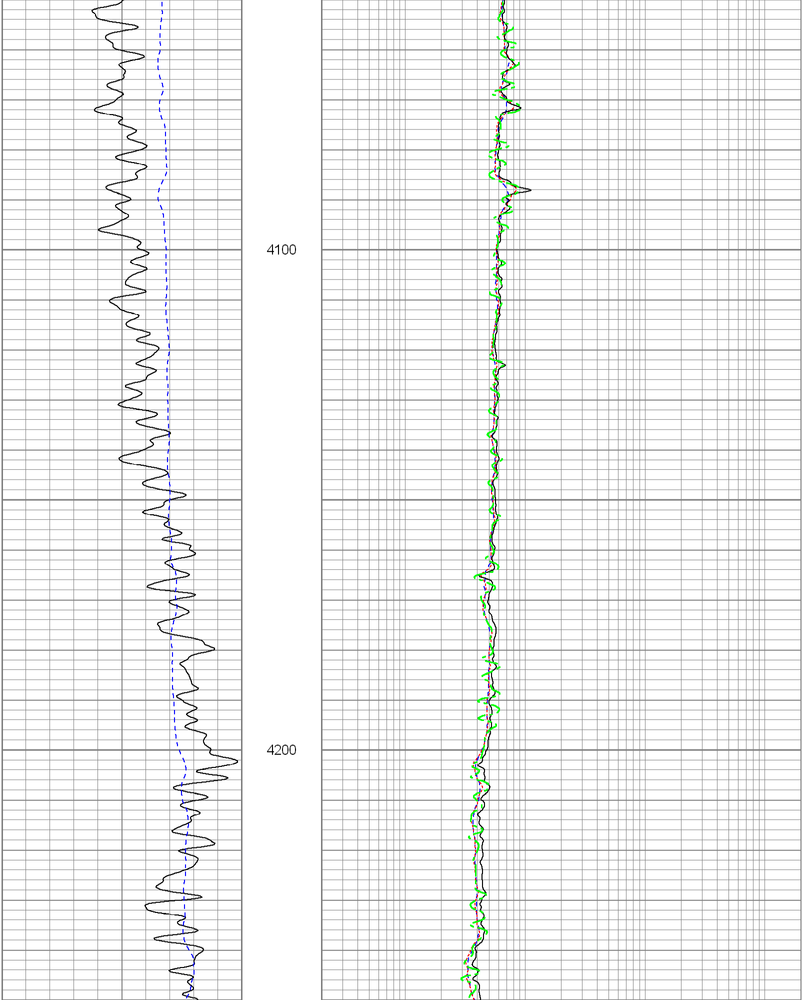

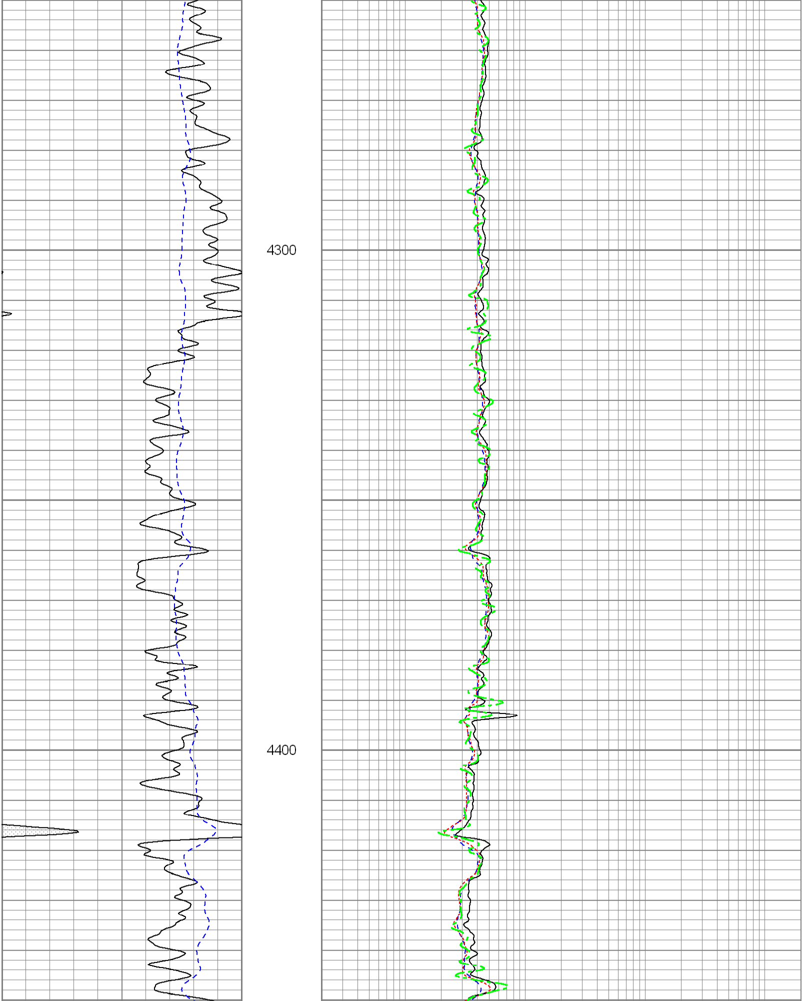

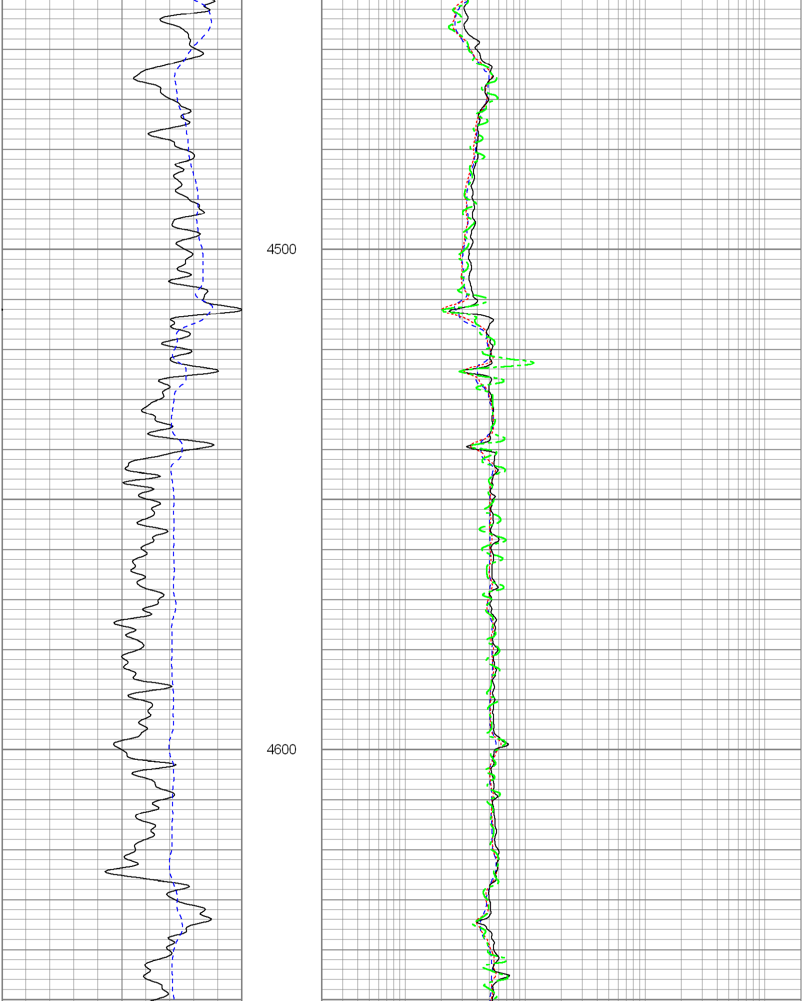

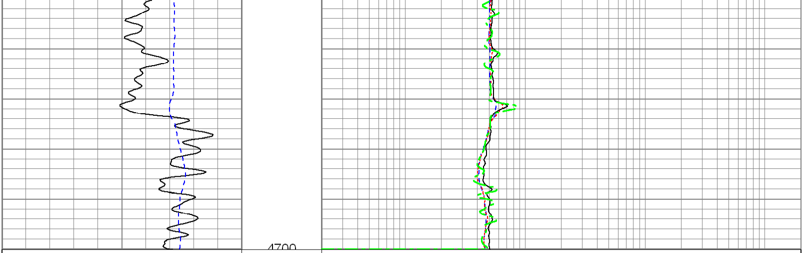

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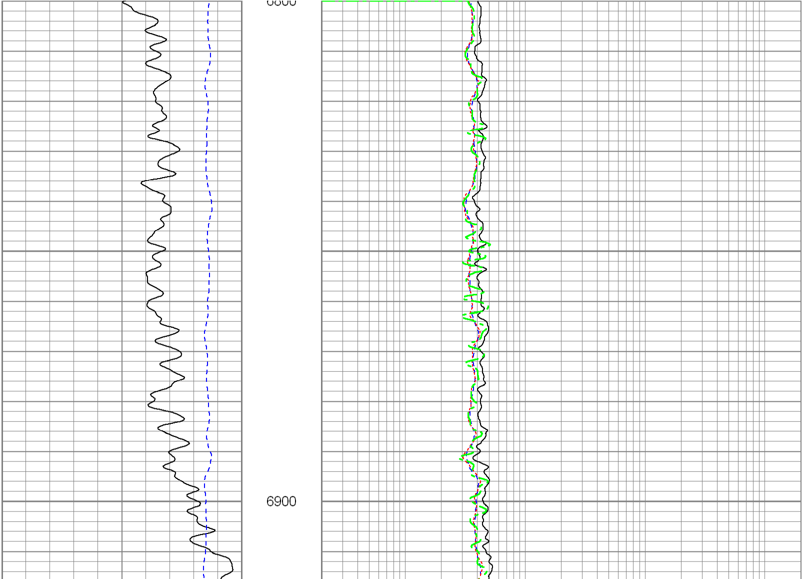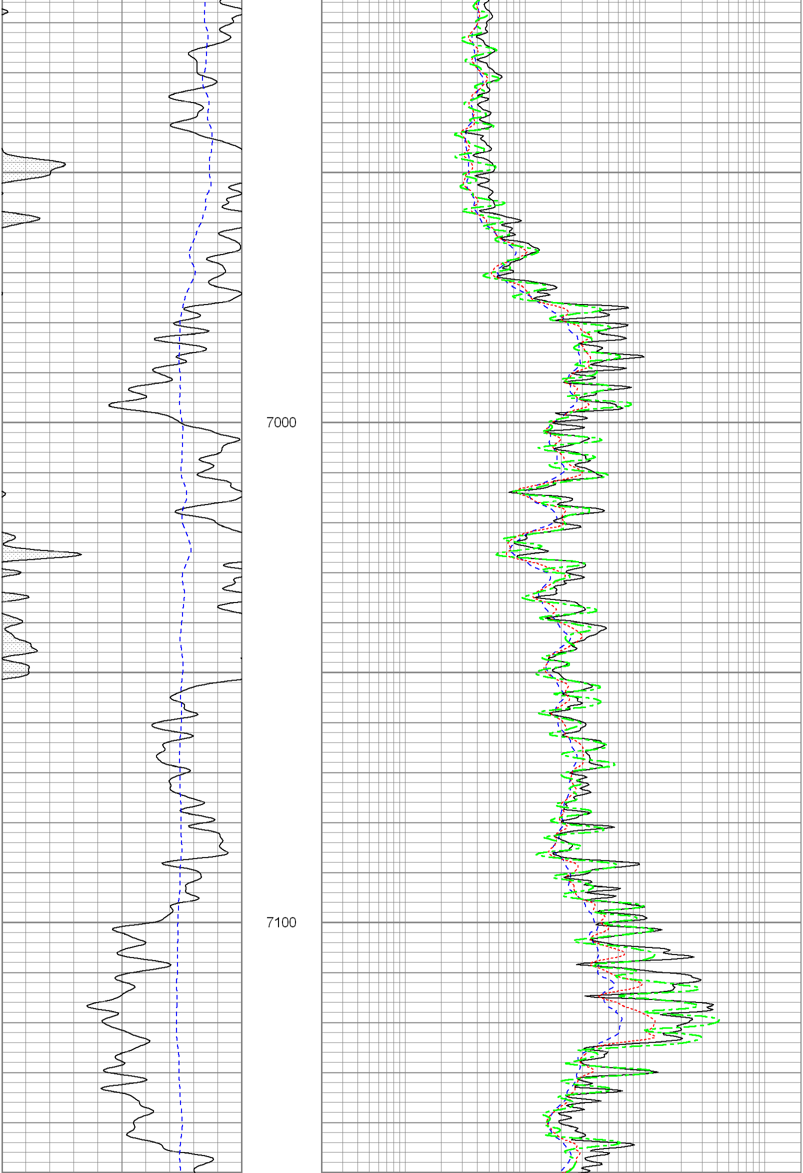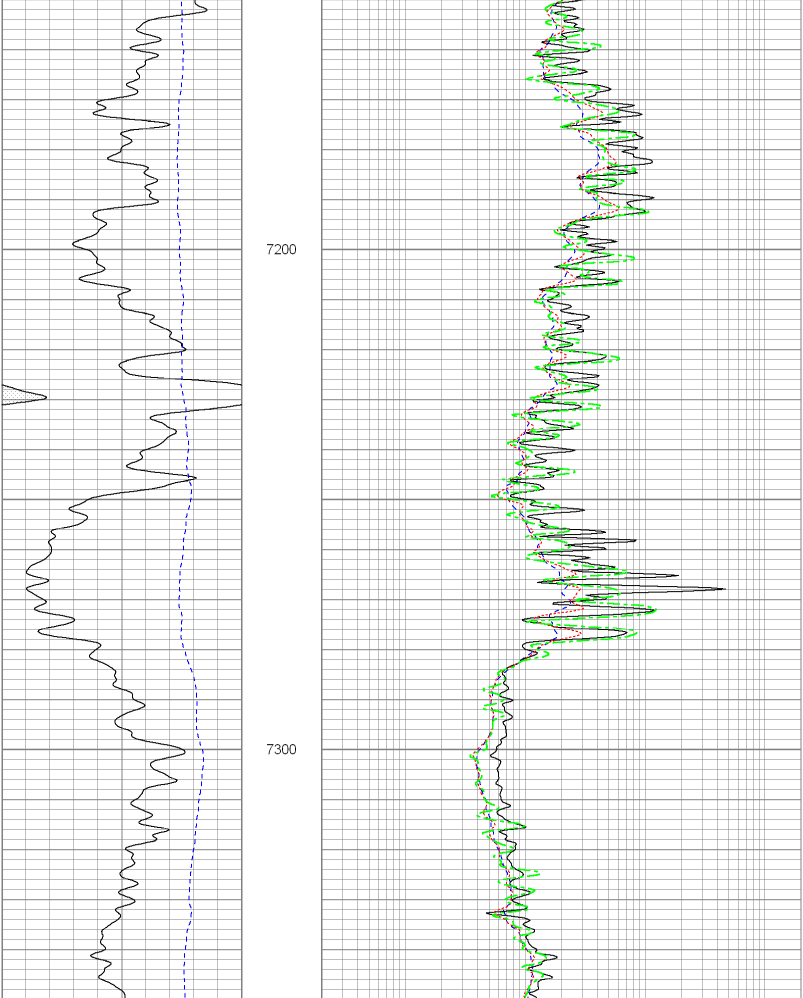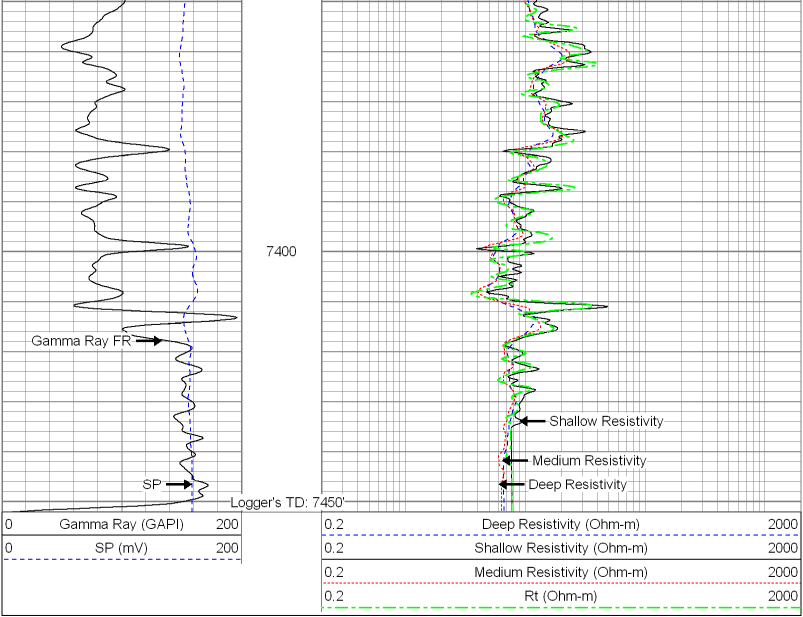| | | |
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