PIONEER
Pioneer Energy Services

HIGH RESOLUTION INDUCTION
GUARD LOG - SP
GAMMA RAY
CALIPER

Company Noble Energy Inc.
Well Eagle E14-62-1HN
Field Wattenberg
County Colorado
State USA

Company	Noble Energy Inc.
Well	Eagle E14-62-1HN
Field	Wattenberg
County	Colorado
State	USA

Location: API # : 05123388670000

383' FSL & 530' FWL SWSW

SEC 14 TWP 6N RGE 65W

Permanent Datum GL Elevation 4736
Log Measured From KB
Drilling Measured From KB

Other Services
None

Elevation
K.B. 4752
D.F. 4751
G.L. 4736

Date	July 8, 2014		
Run Number	1		
Depth Driller	7220'		
Depth Logger	6273'		
Bottom Logged Interval	6273'		
Top Log Interval	Casing		
Casing Driller	657'		
Casing Logger	657'		
Bit Size	8-3/4"		
Type Fluid in Hole	Chem Gel		
Density / Viscosity	10.7 / 40		
pH / Fluid Loss	9.5 / 7.2		
Source of Sample	Mudpit		
Rm @ Meas. Temp	3.15 @ 63 F		
Rmf @ Meas. Temp	2.52 @ 63 F		
Rmc @ Meas. Temp	3.78 @ 63 F		
Source of Rmf / Rmc	Measure / Calc		
Rm @ BHT	1.53 @ 130 F		
Time Circulation Stopped	1900 7/7		
Time Logger on Bottom	0300		
Maximum Recorded Temperature	130 F		
Equipment Number	49		
Location	Ft. Morgan		
Recorded By	Matt Gill		
Witnessed By	Tyler Hale		

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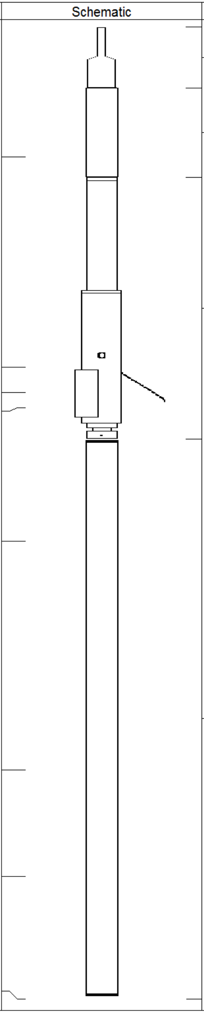
All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees.

Comments

Thank You for using Pioneer Energy Services
Precision Drilling Rig 829

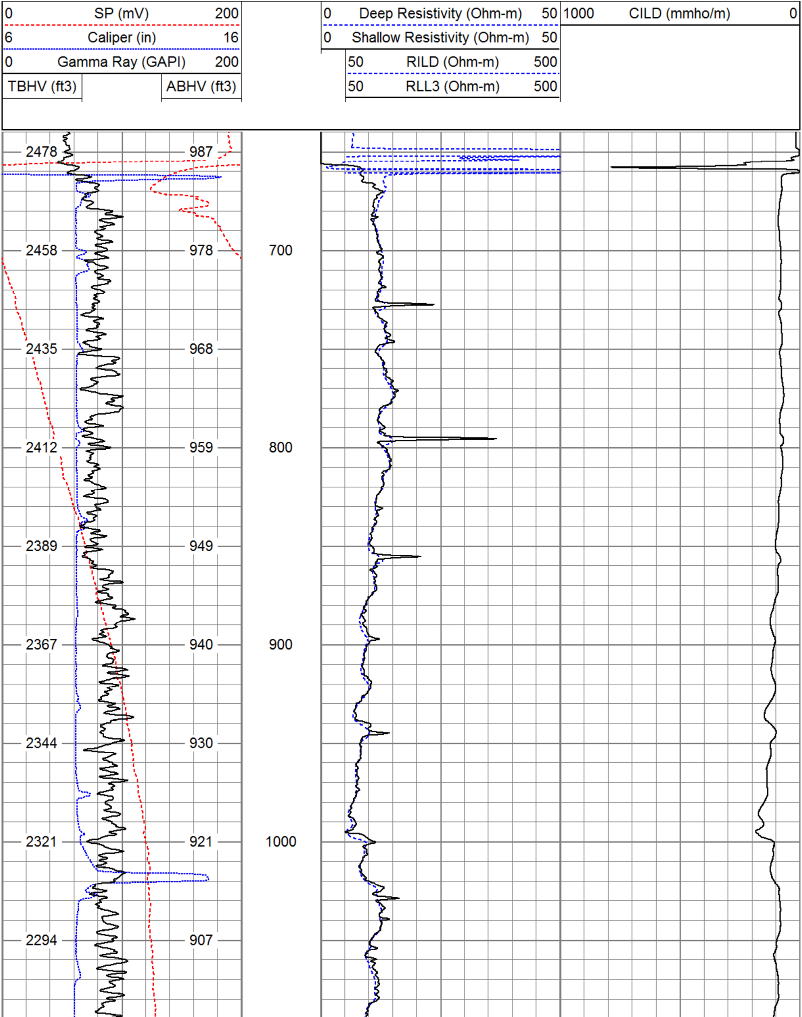


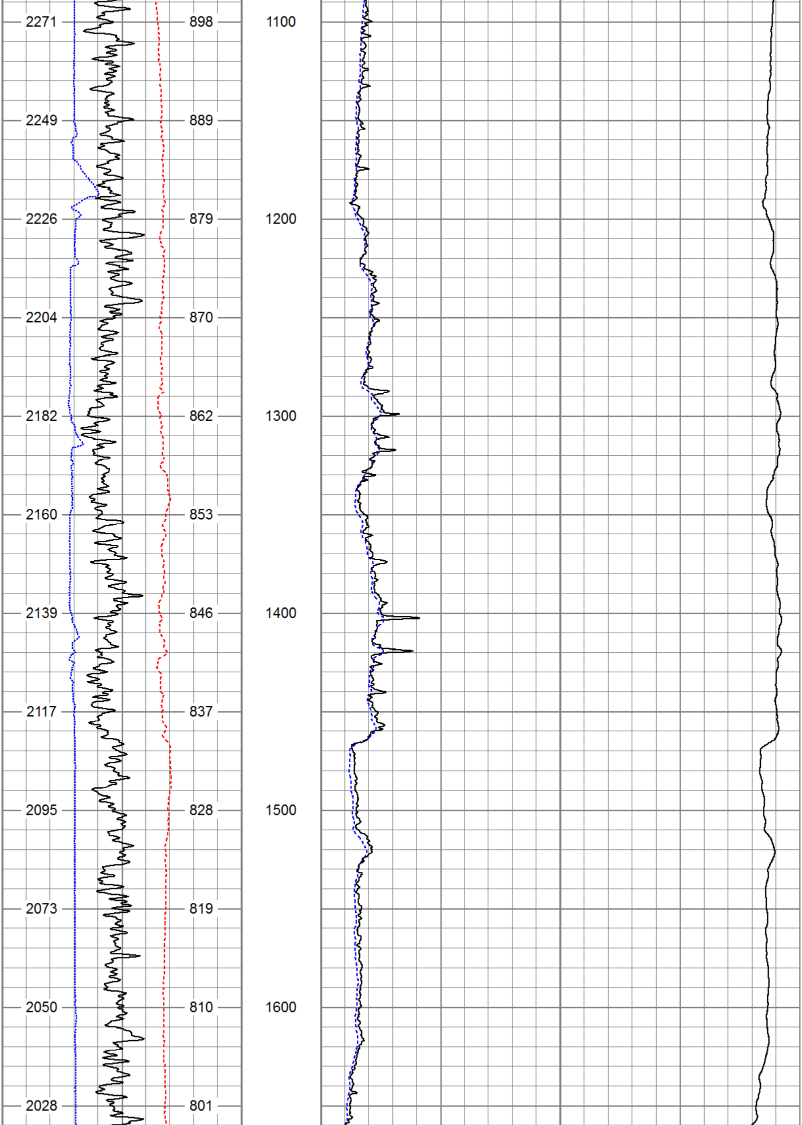
Sensor	Offset (ft)
GR	0.00
DCAL	-6.84
LSD	-7.67
SSD	-8.17
RLL3	-12.52
CILD	-19.97
CILM	-23.42
SP	-27.42

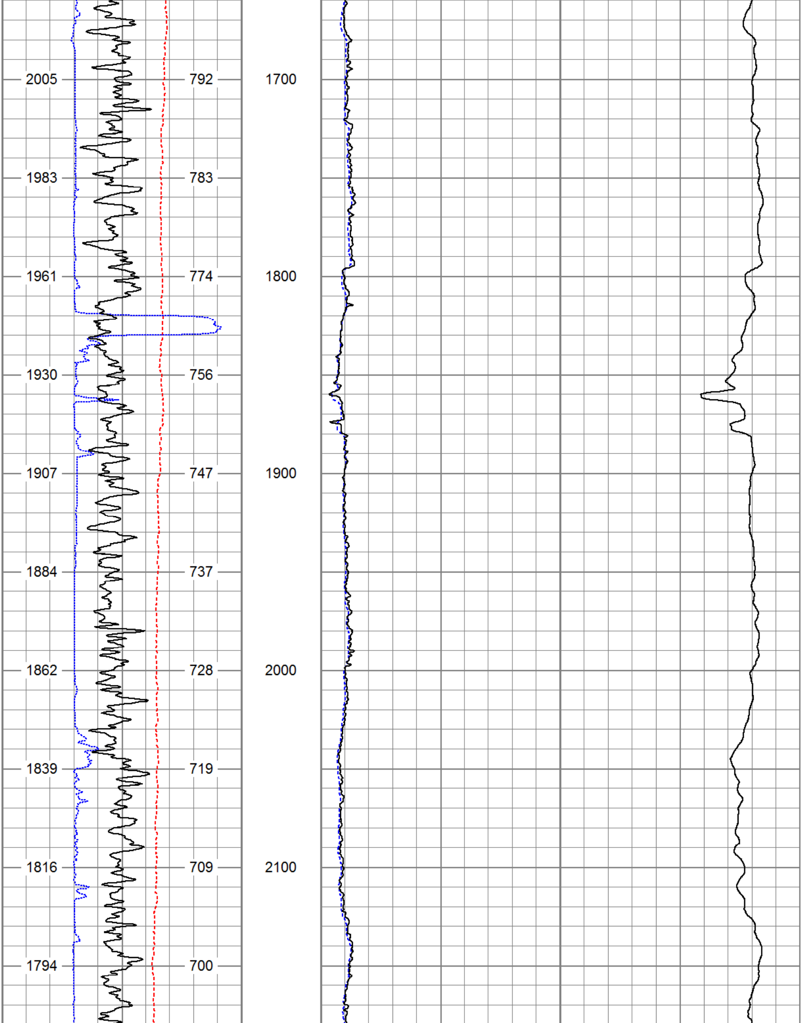
Description	Len (ft)	OD (in)	Wt (lb)
CHD (~0)	2.00	3.50	30.00
GR-PSI (939)	2.92	3.50	40.00
CDL-PSI (128)	8.50	5.00	285.00
DIL-PSI (1011)	18.25	3.75	175.00

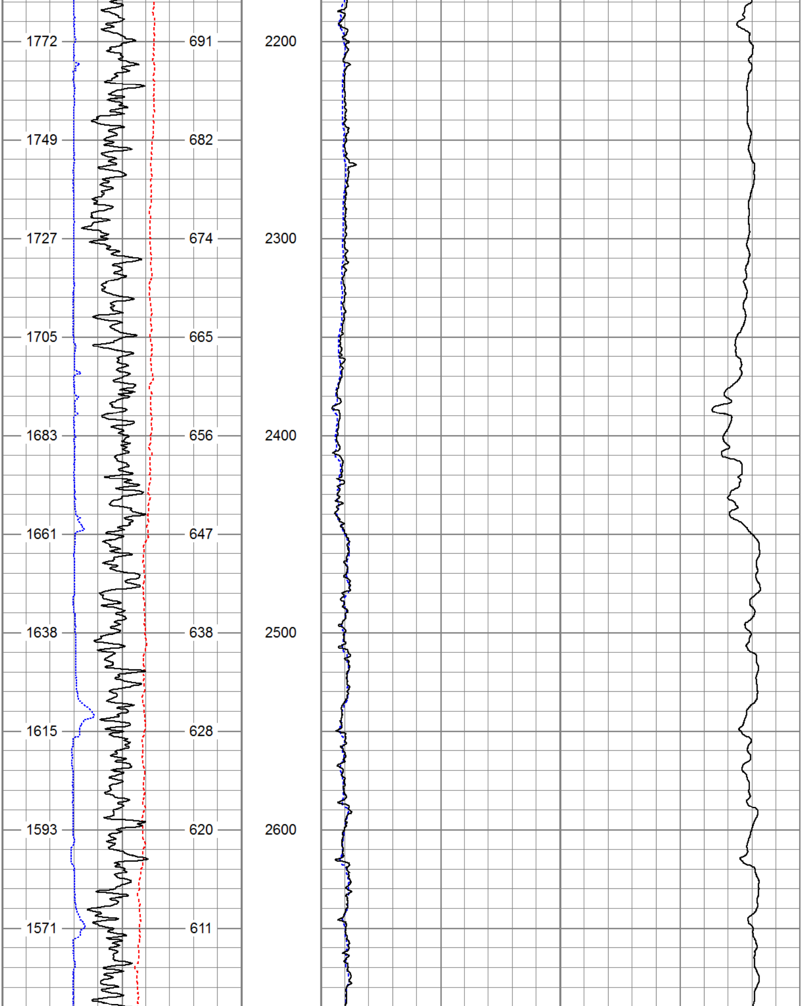
Dataset:	13601.db: field/well/run1/pass2
Total Length:	31.67 ft
Total Weight:	530.00 lb
O.D.	5.00 in

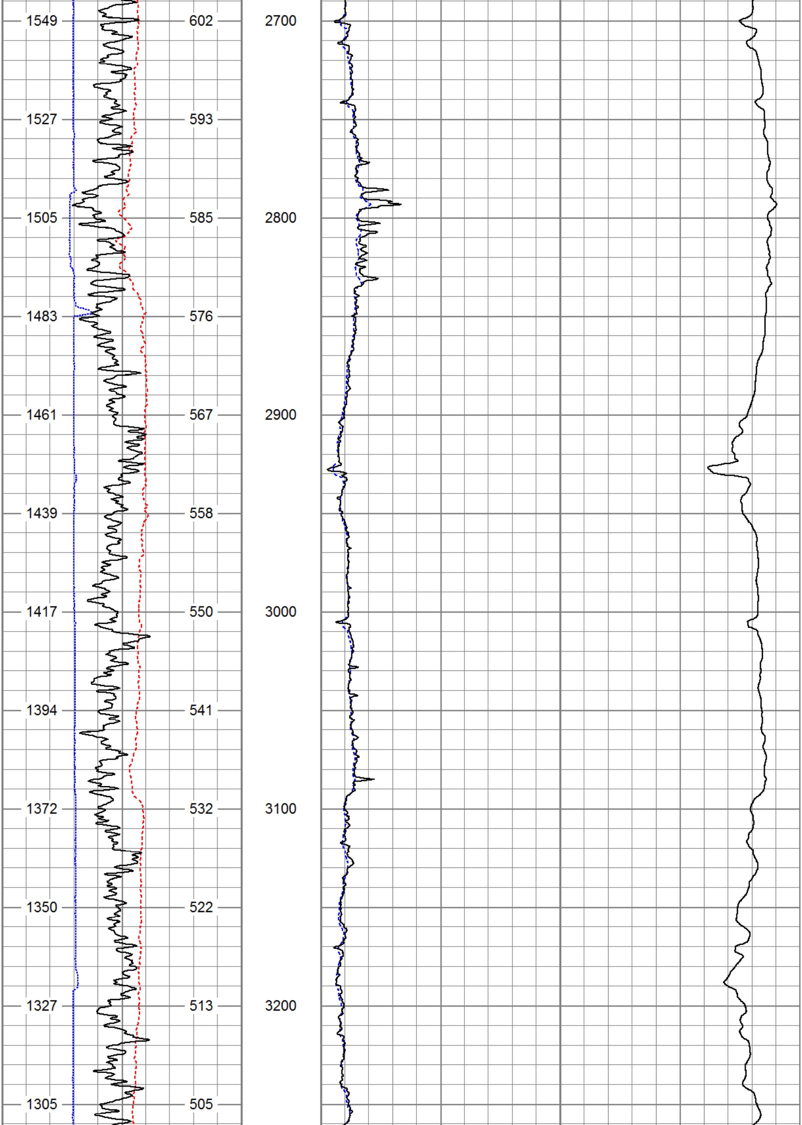
Database File:	13601.db
Dataset Pathname:	final
Presentation Format:	dilin5
Dataset Creation:	Tue Jul 08 03:18:35 2014
Charted by:	Depth in Feet scaled 1:600

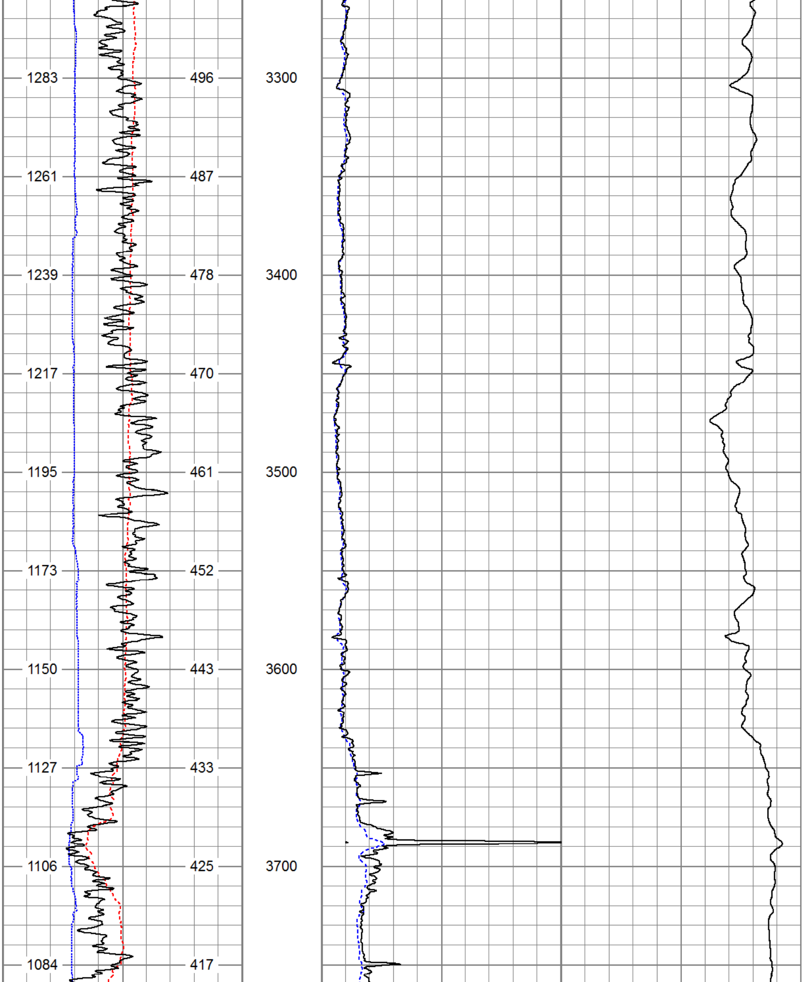


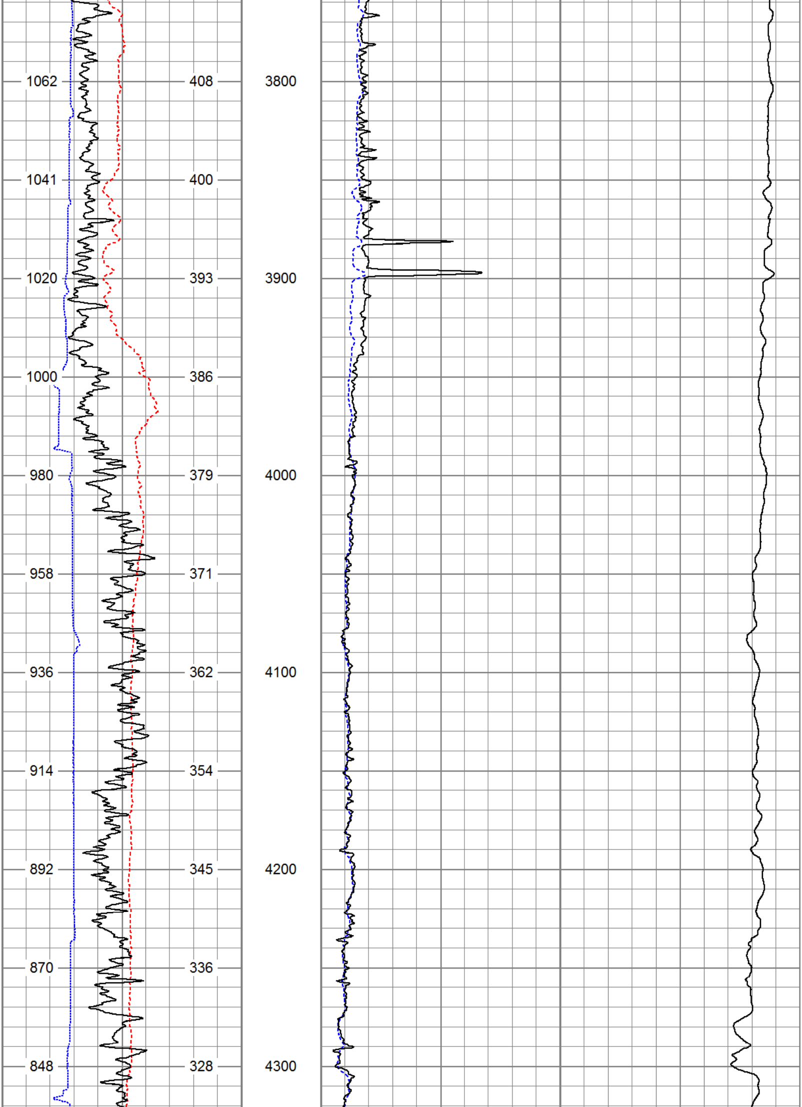


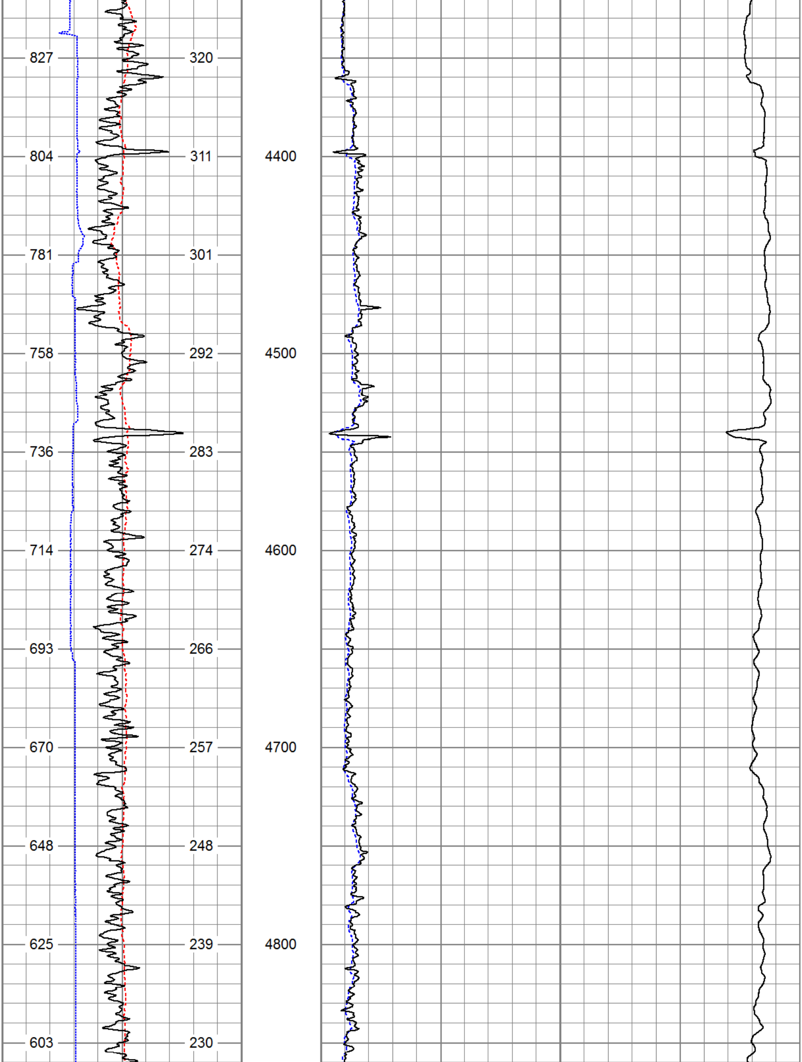


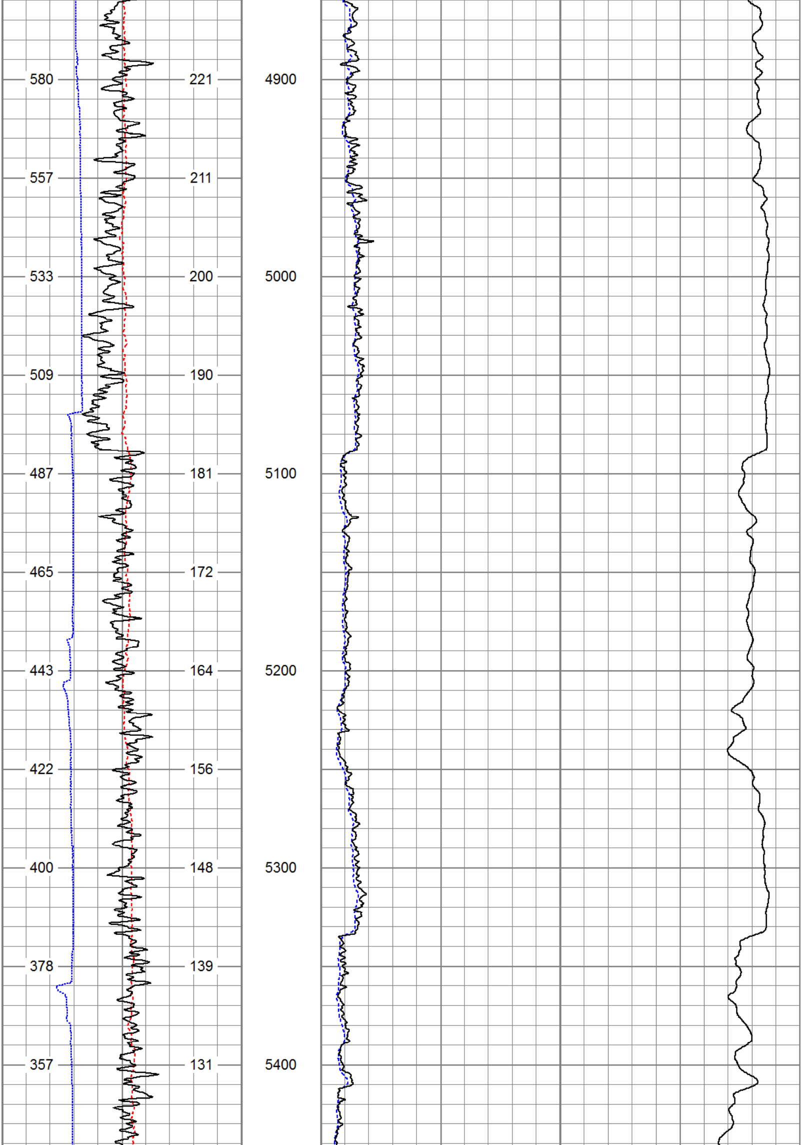


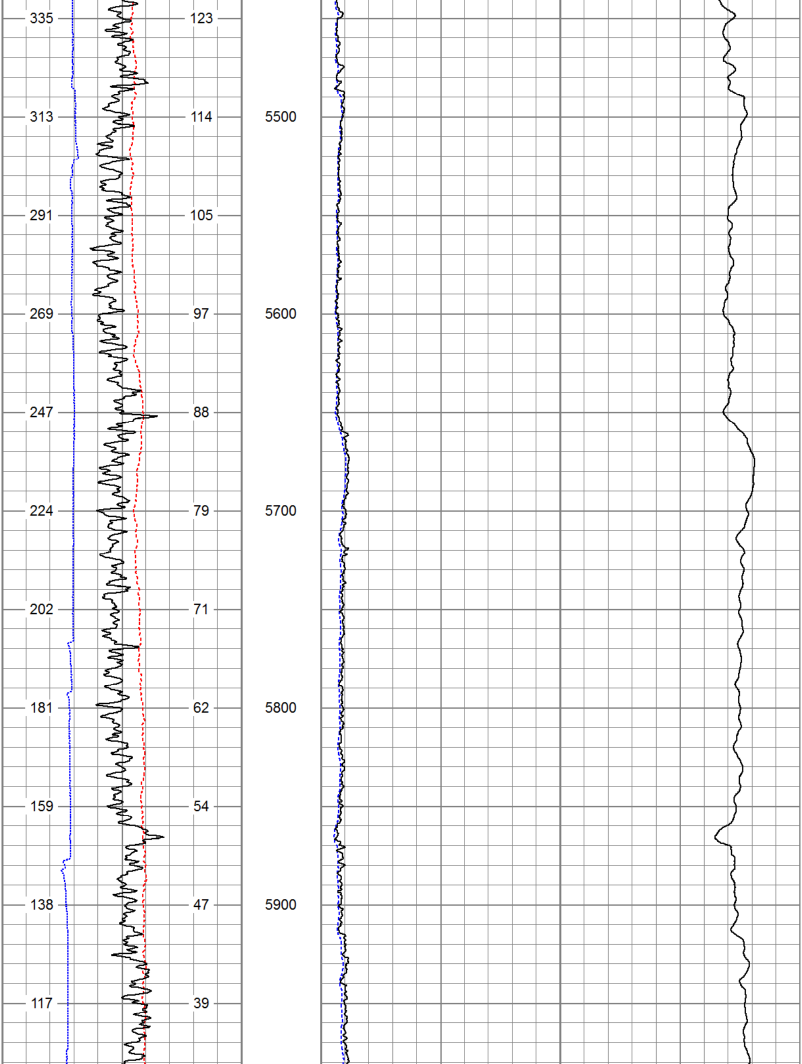


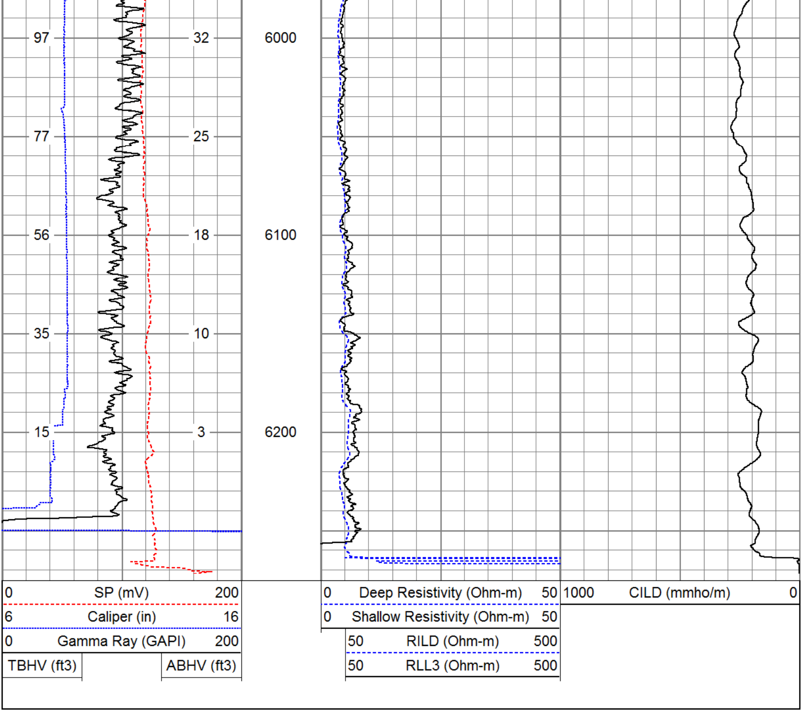








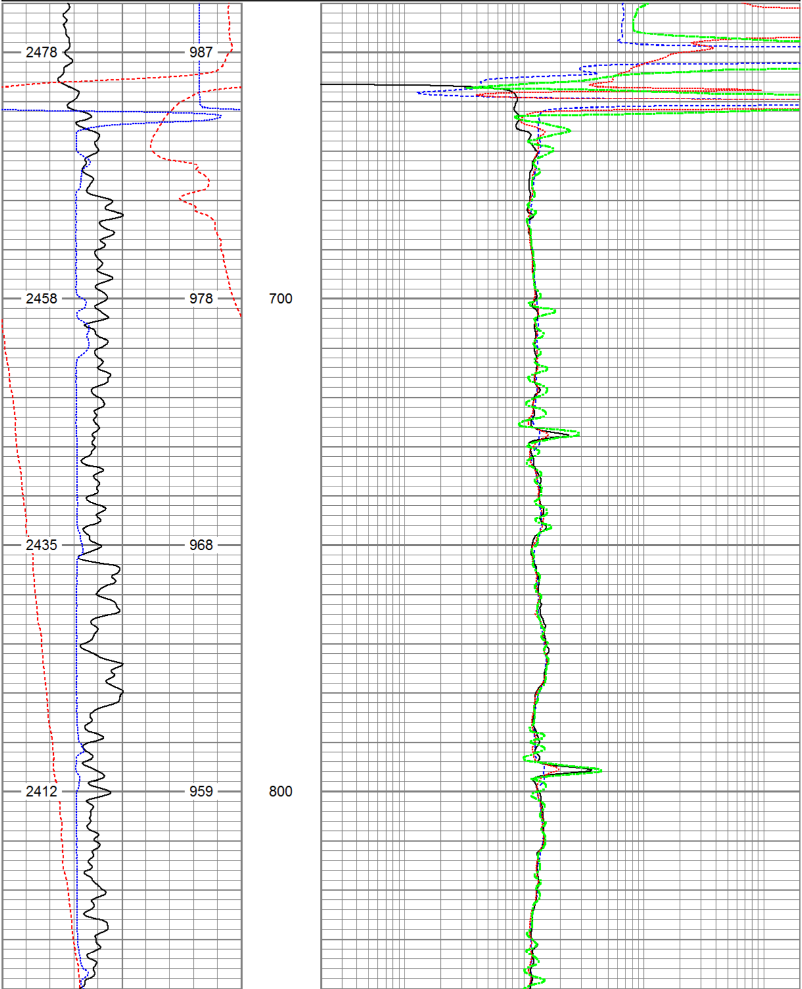


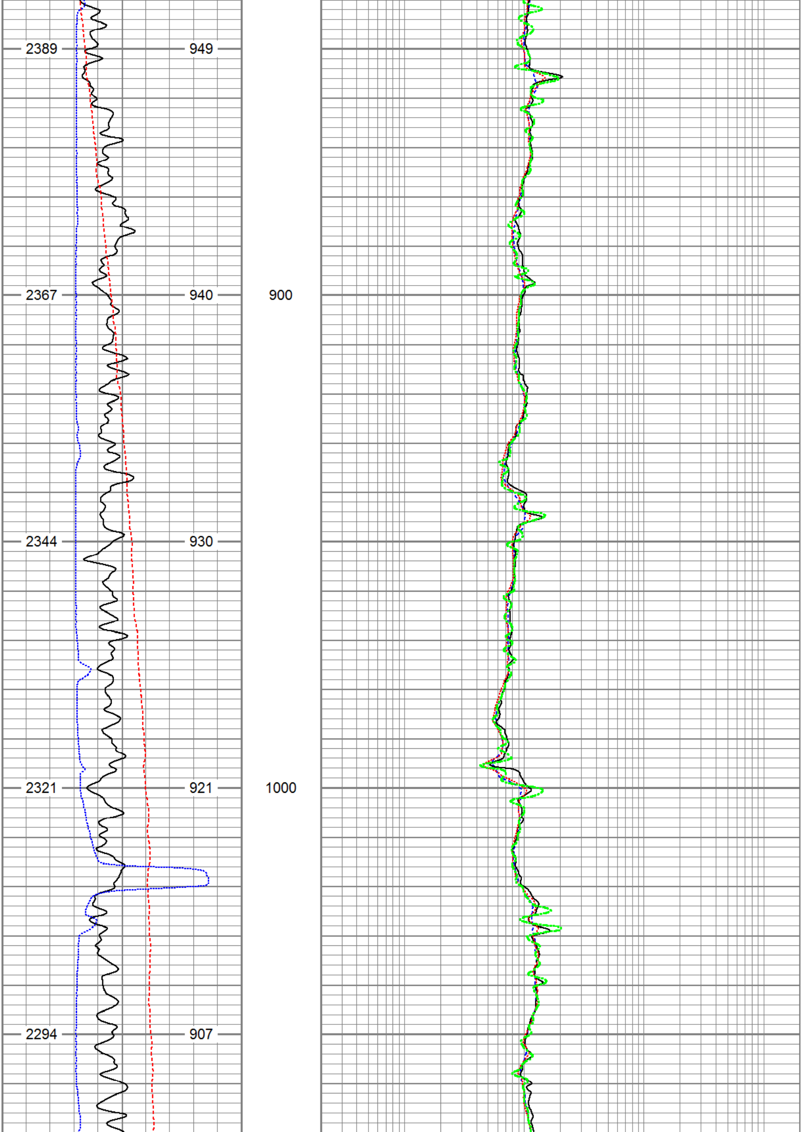


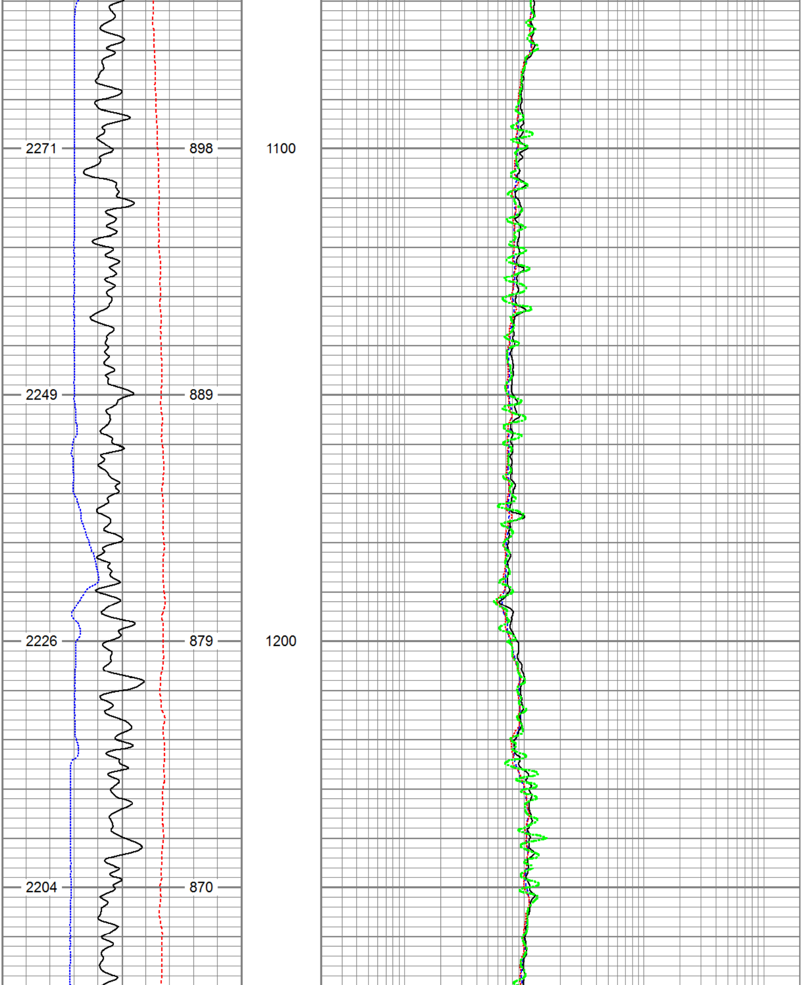
Database File:	13601.db
Dataset Pathname:	final
Presentation Format:	dil
Dataset Creation:	Tue Jul 08 03:18:35 2014
Charted by:	Depth in Feet scaled 1:240

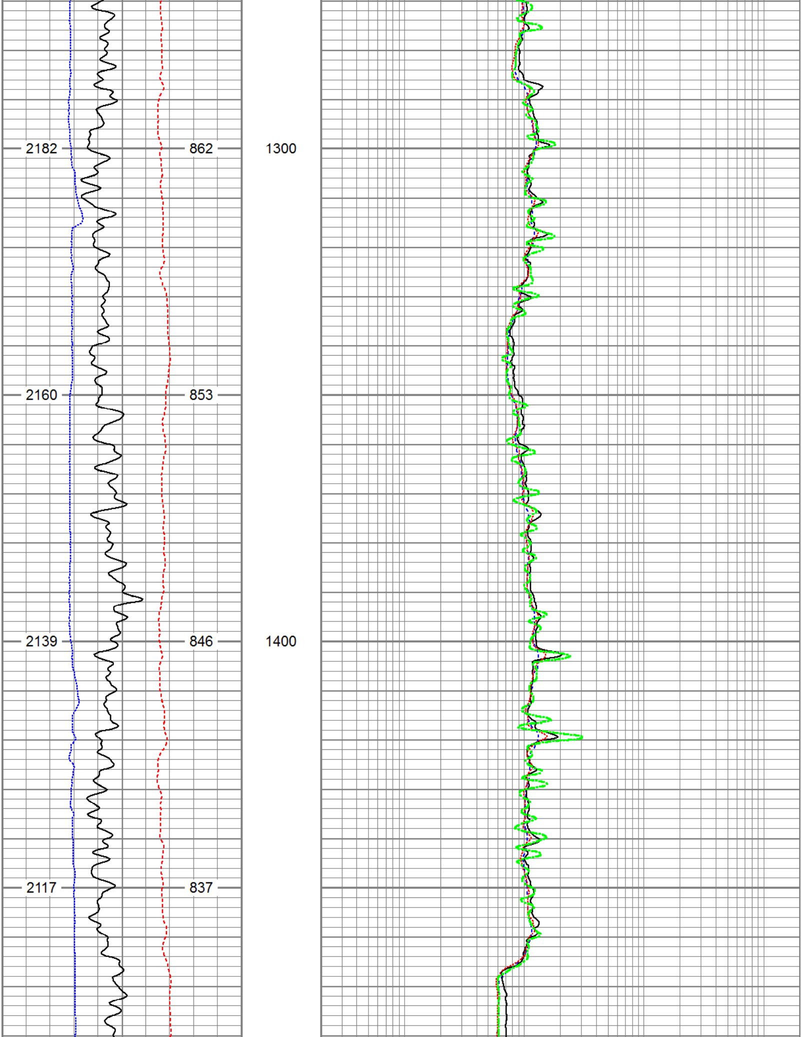
0 Gamma Ray (GAPI) 200
0 SP (mV) 200
6 Caliper (in) 16
TBHV (ft3) ABHV (ft3)

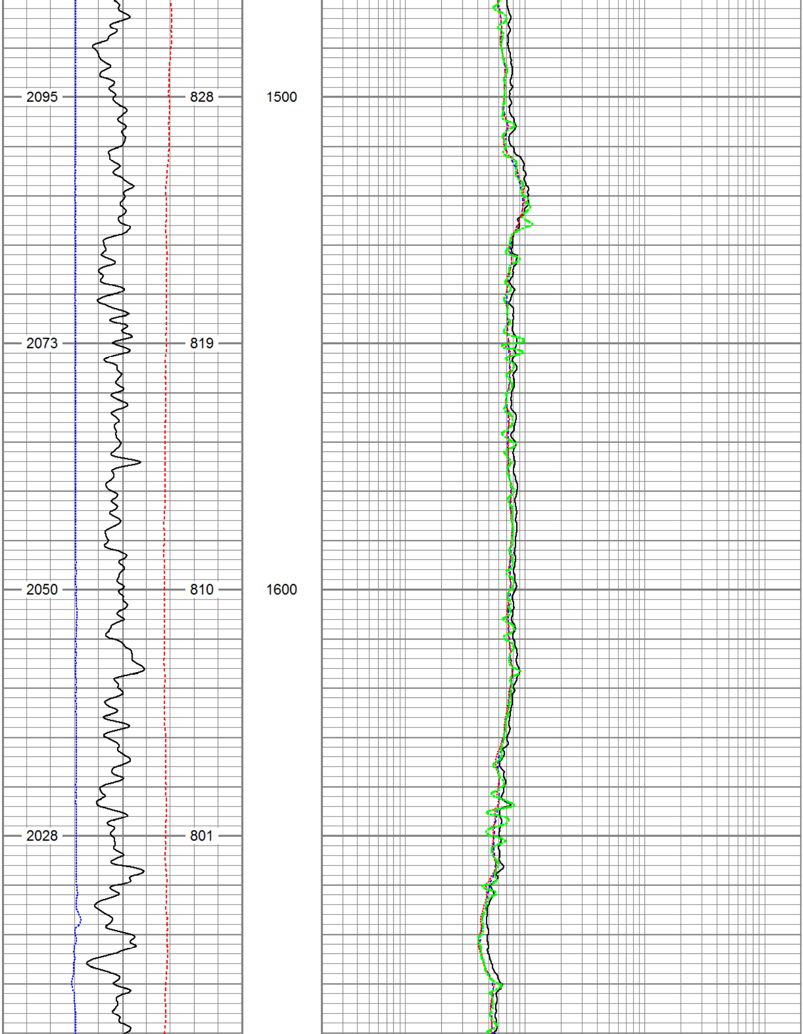
0.2 Deep Resistivity (Ohm-m) 2000
0.2 Shallow Resistivity (Ohm-m) 2000
0.2 Medium Resistivity (Ohm-m) 2000
0.2 Rt (Ohm-m) 2000

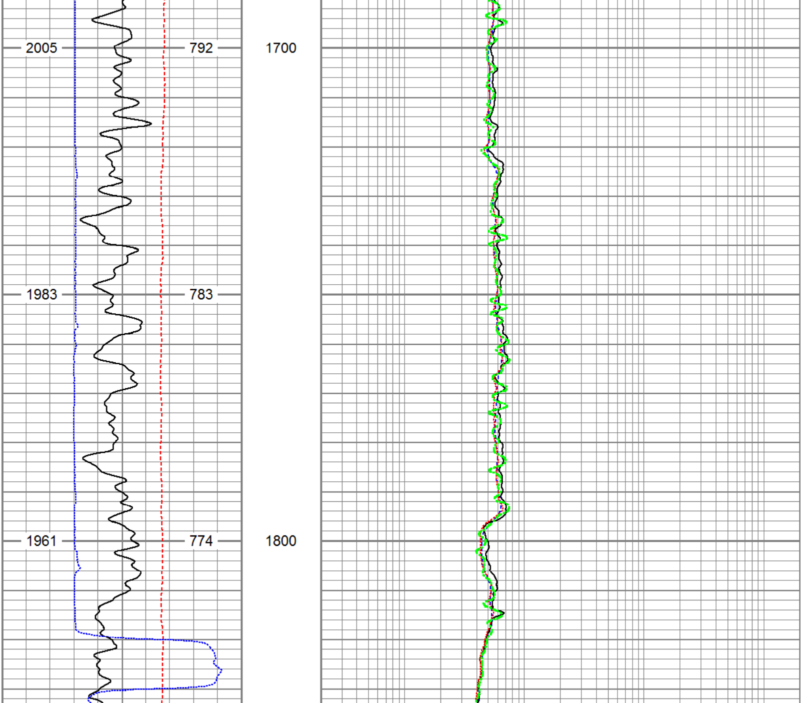


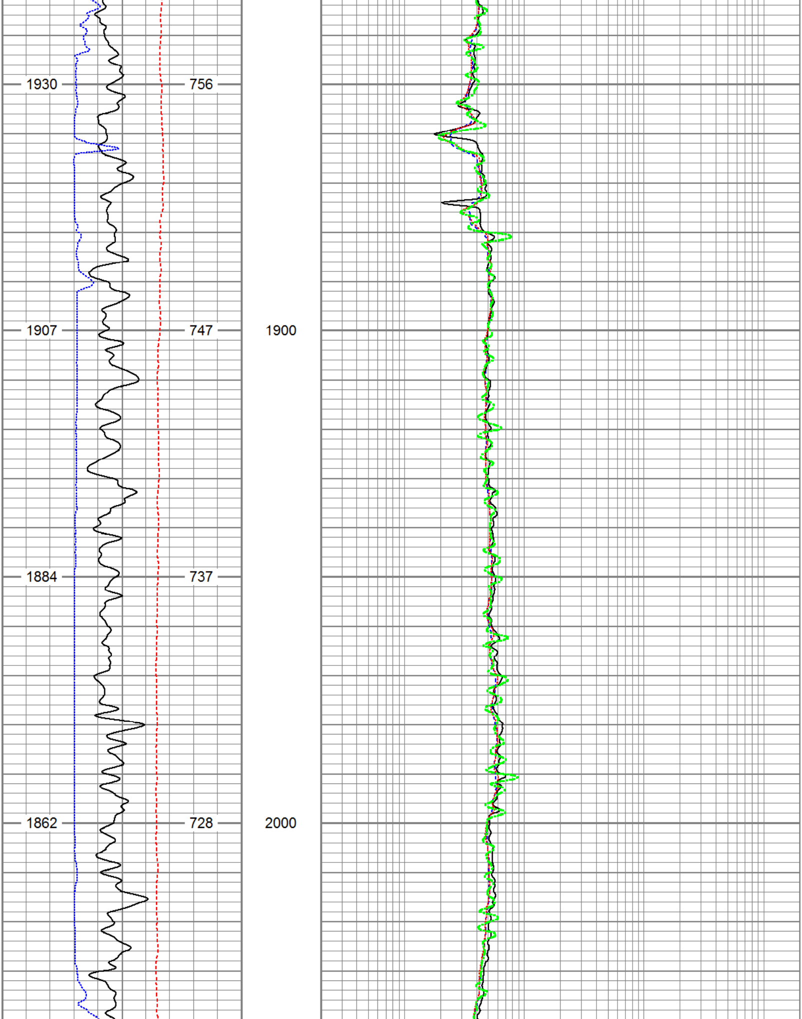








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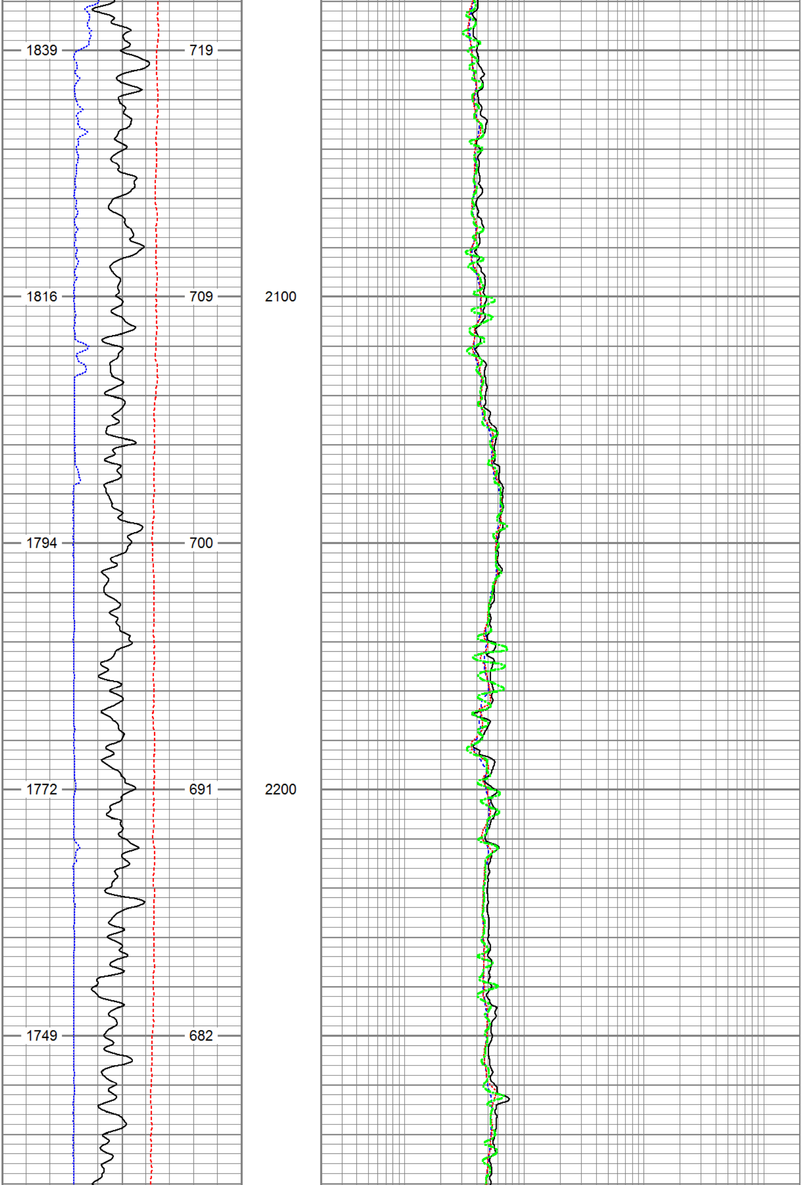
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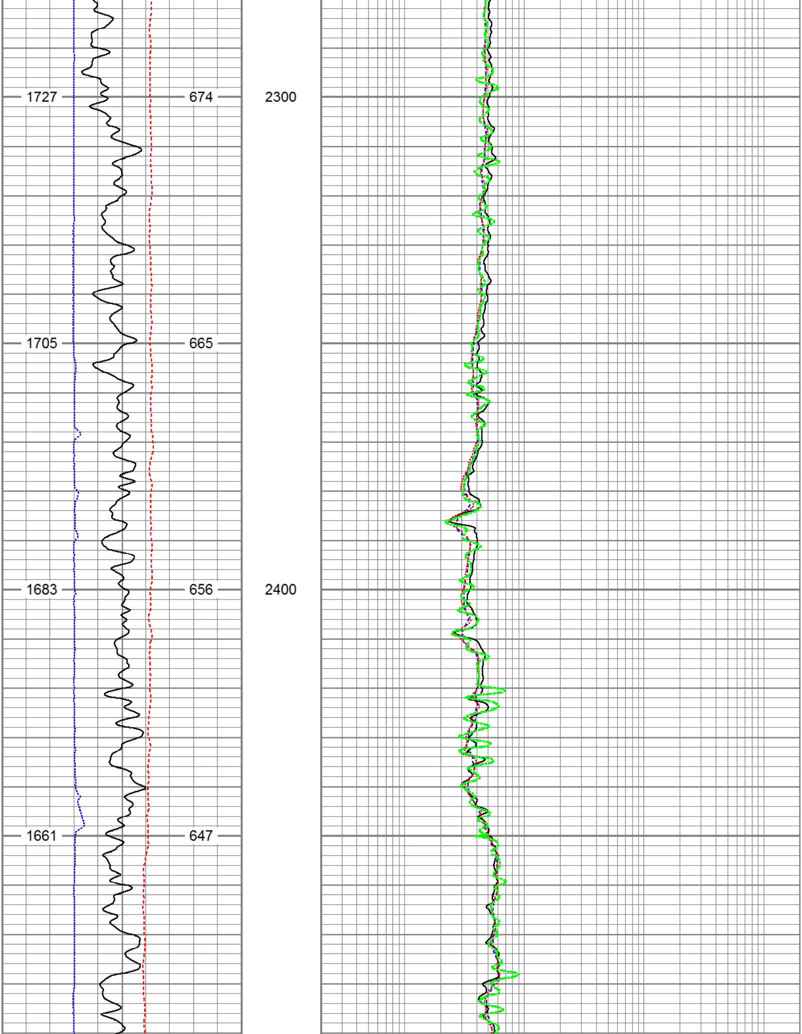
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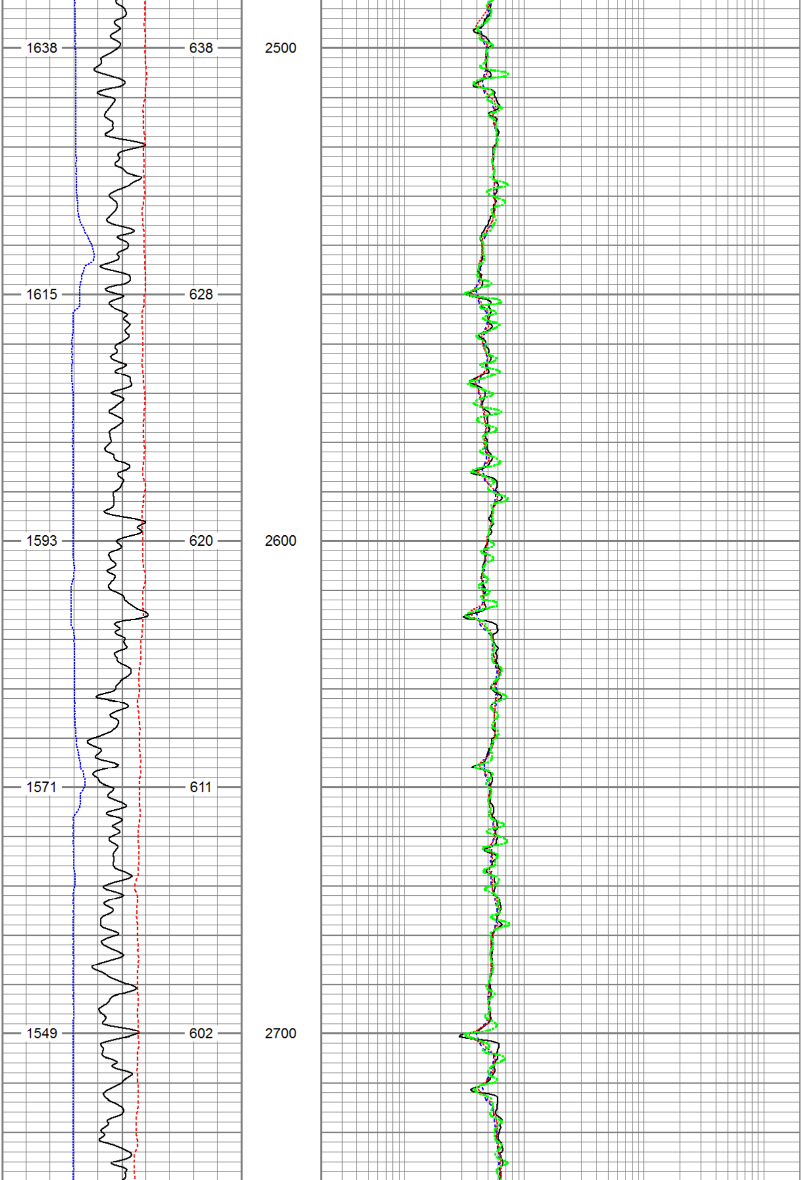
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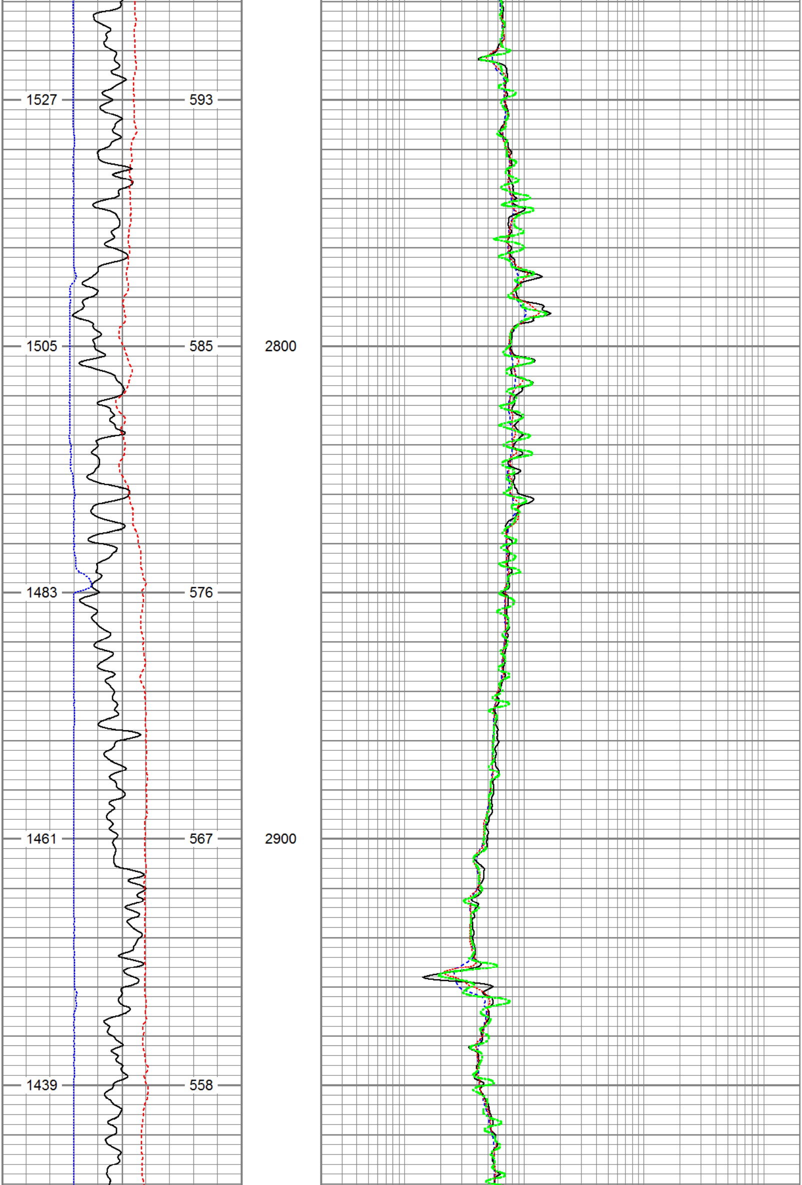
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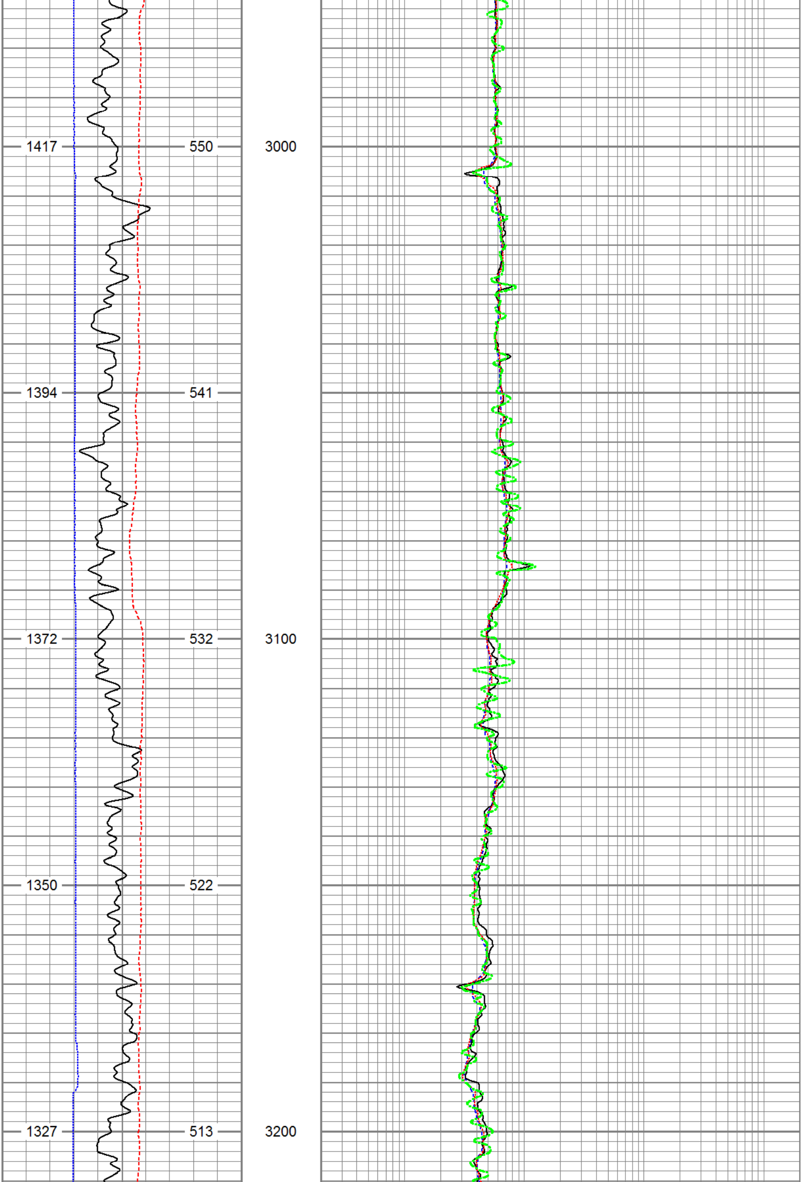
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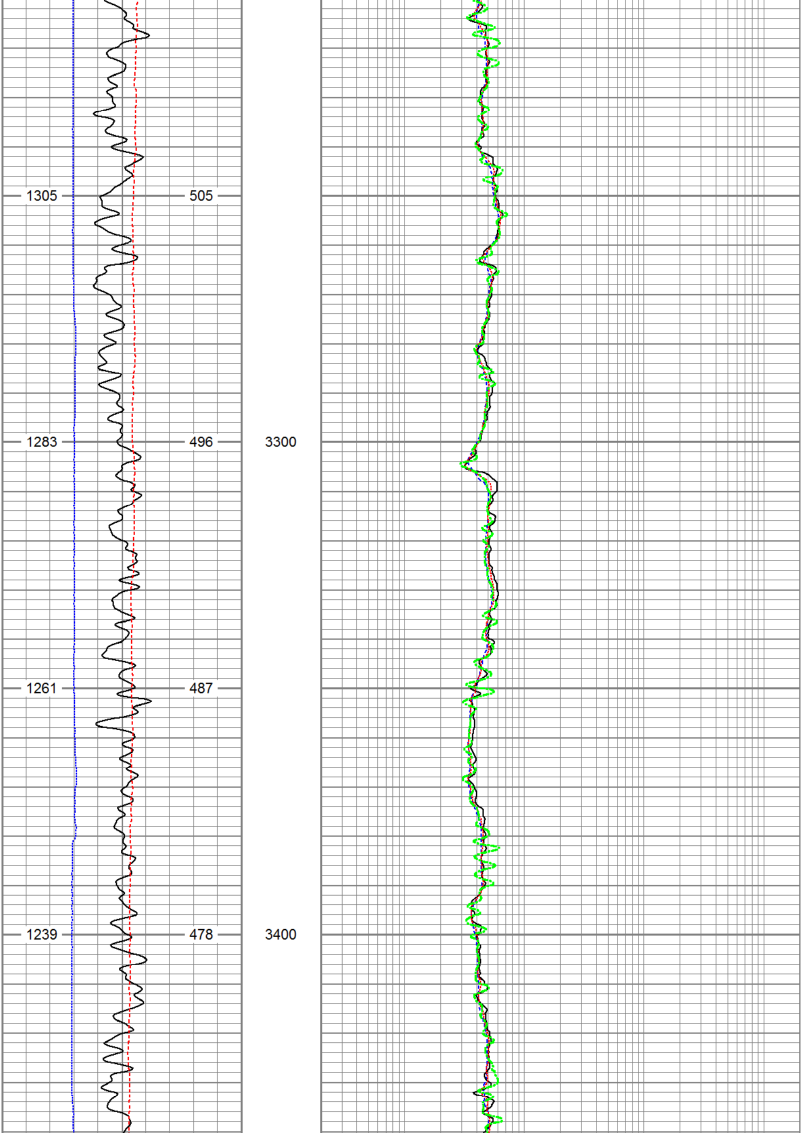
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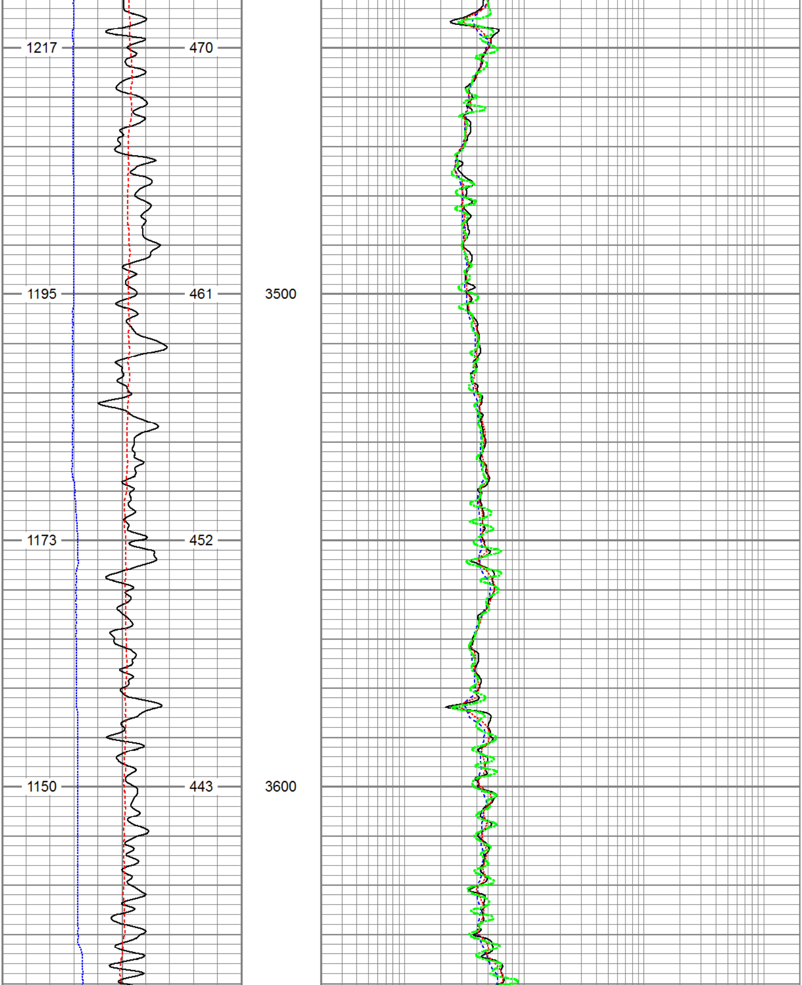
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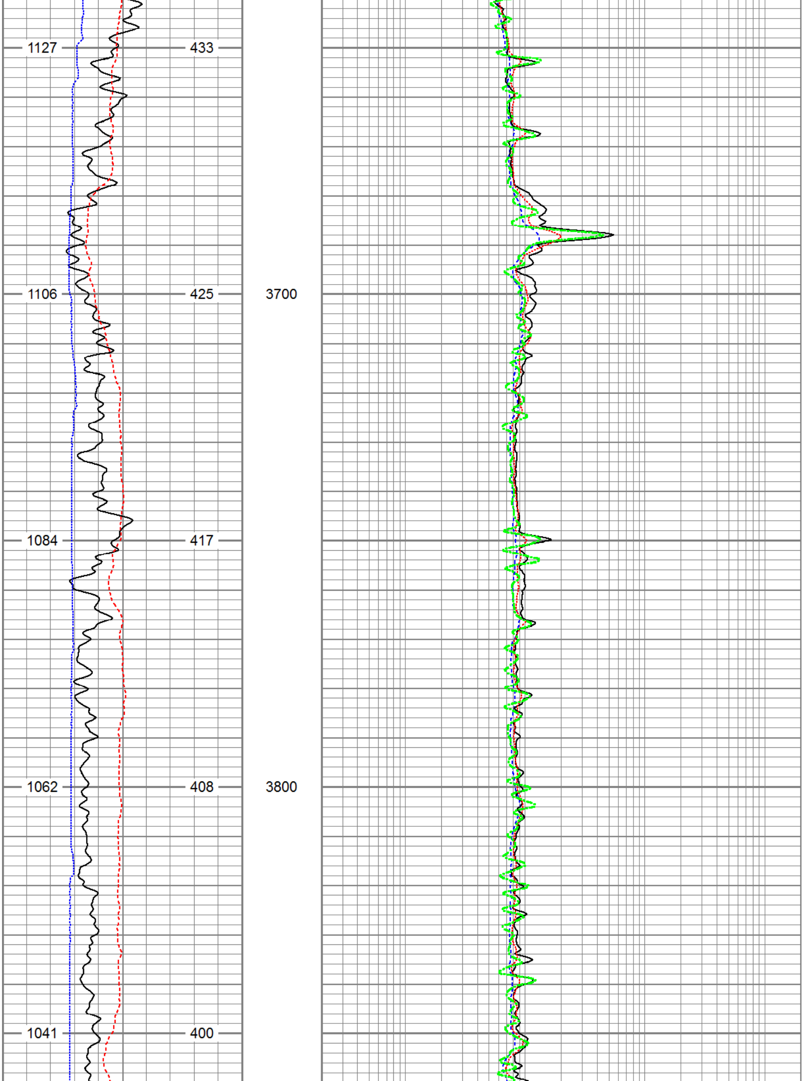
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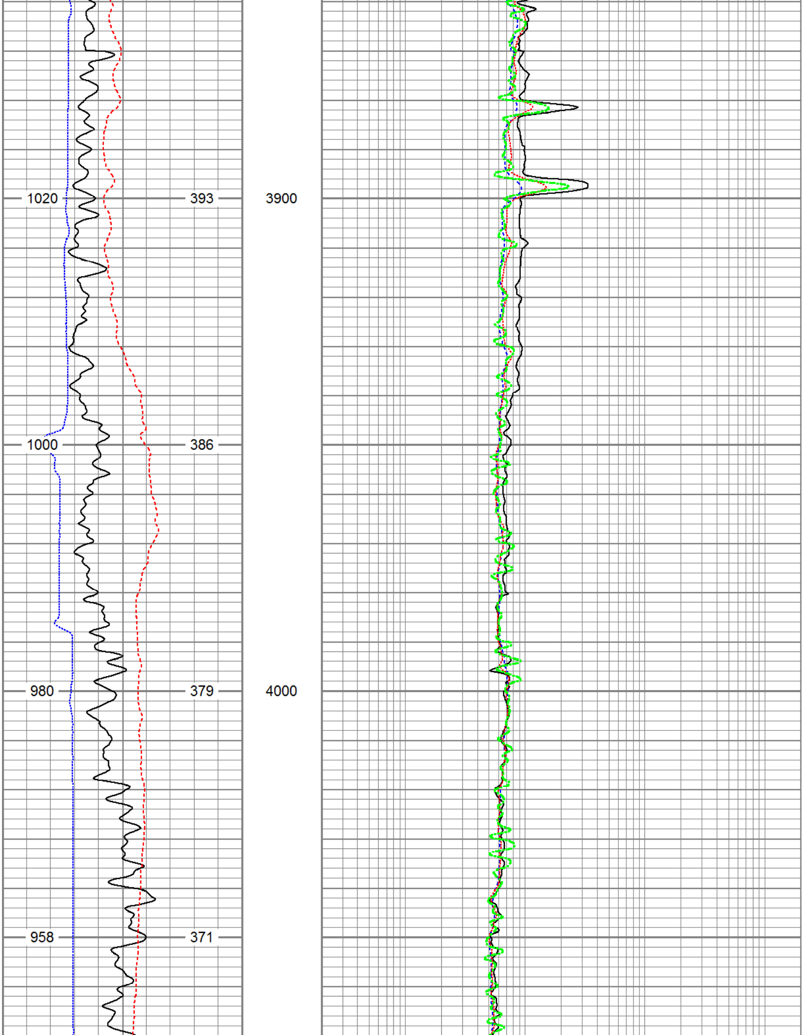
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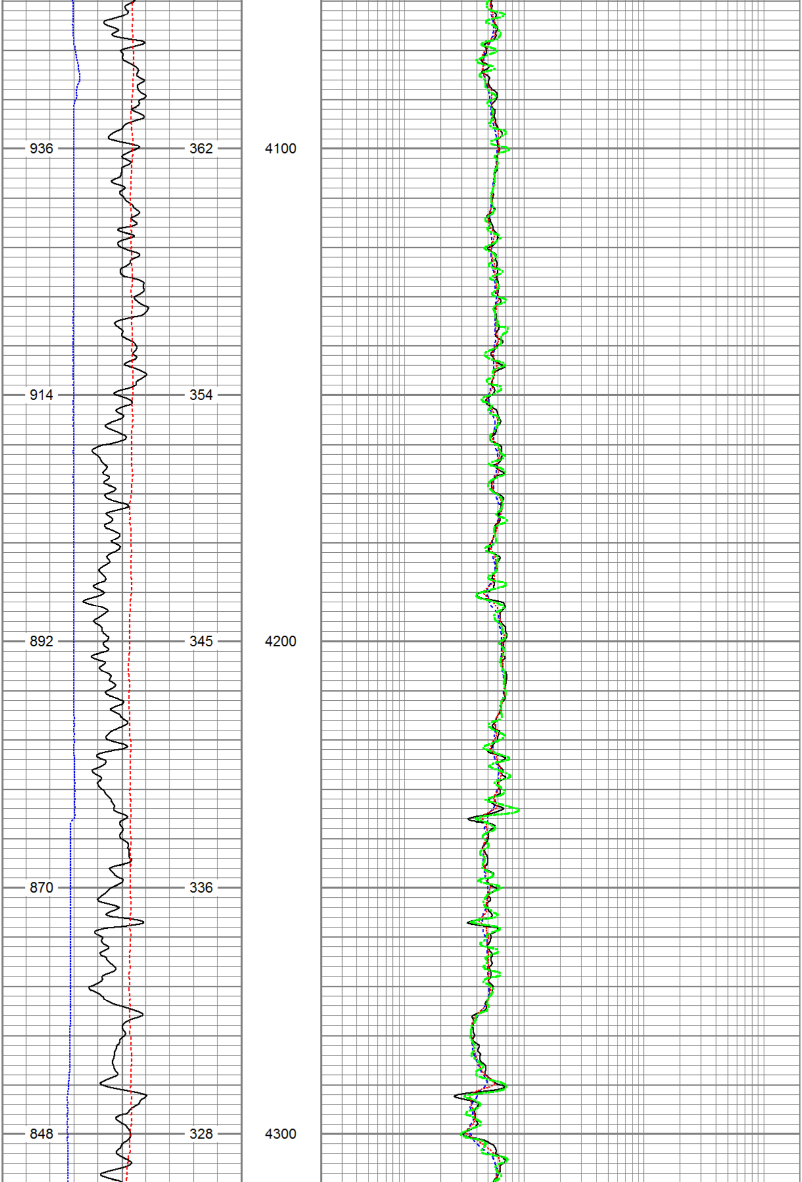
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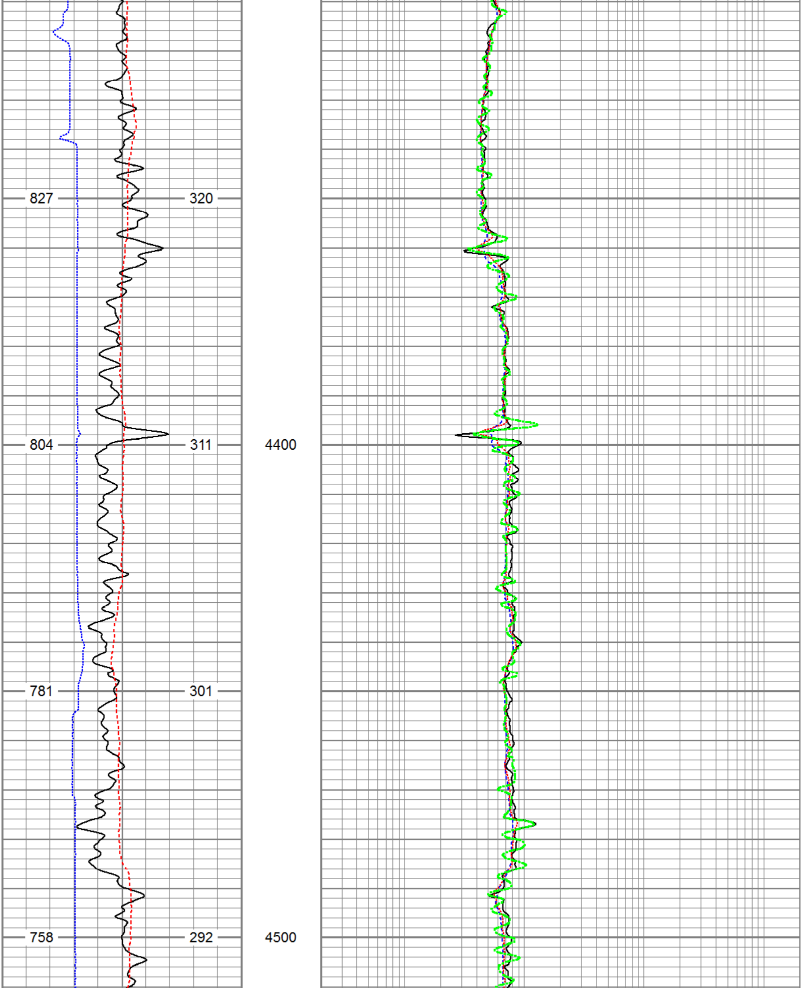
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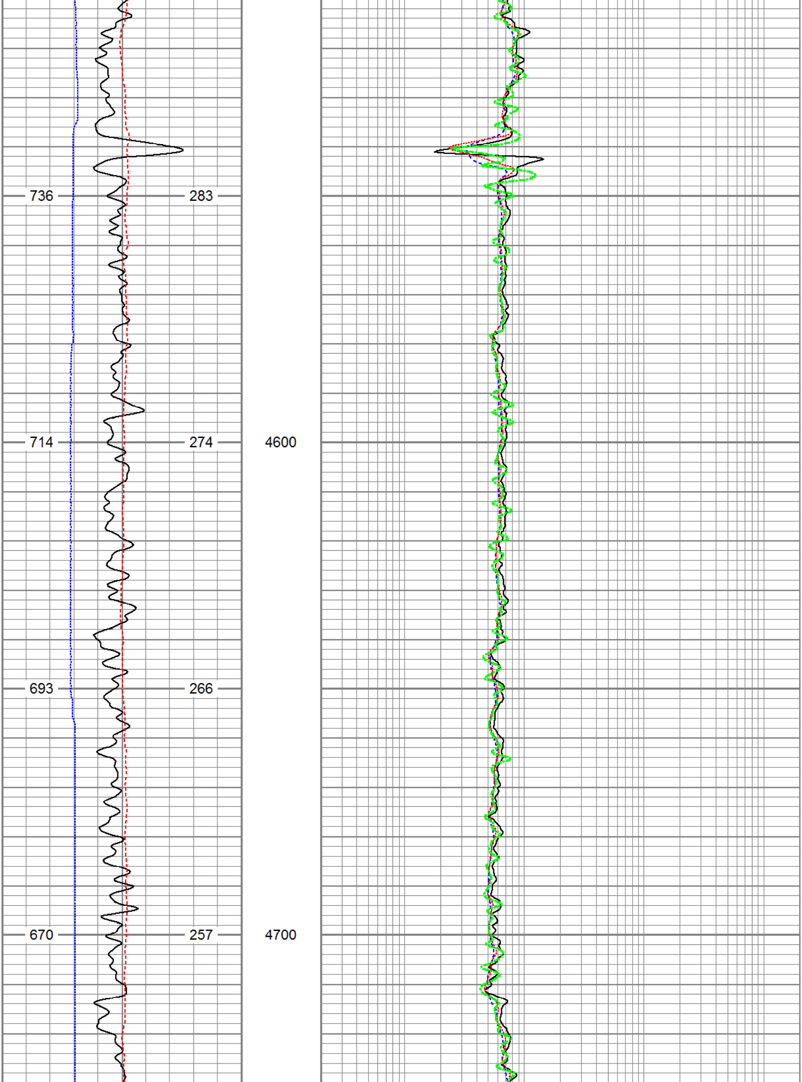
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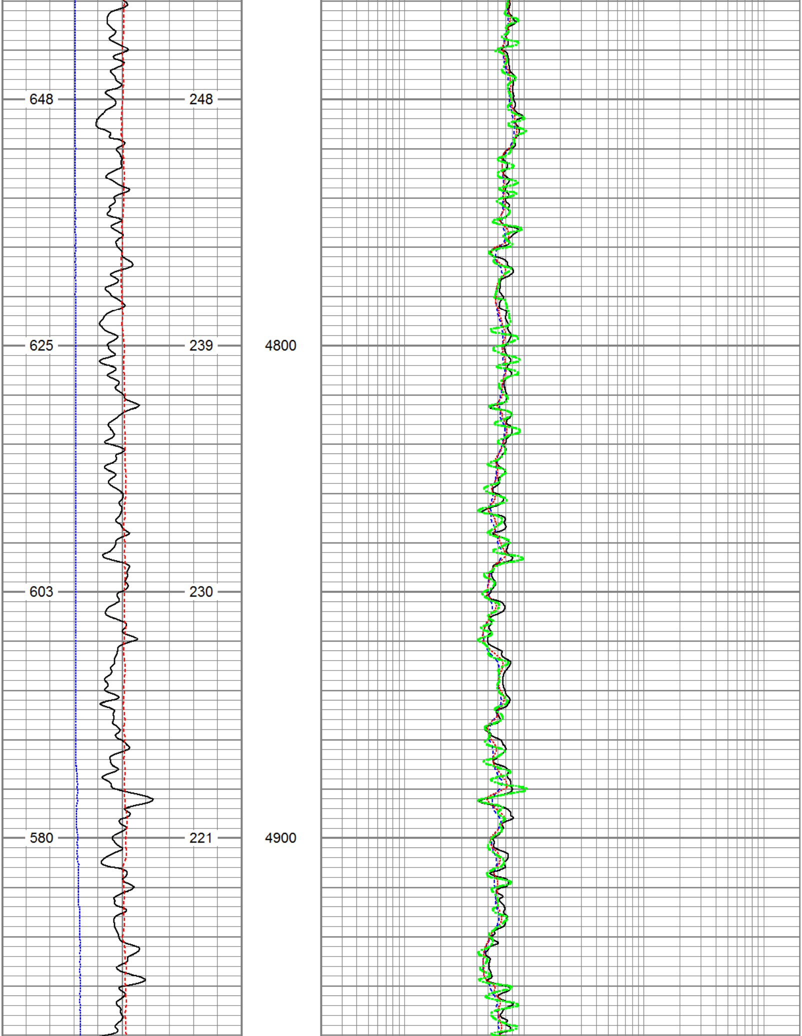
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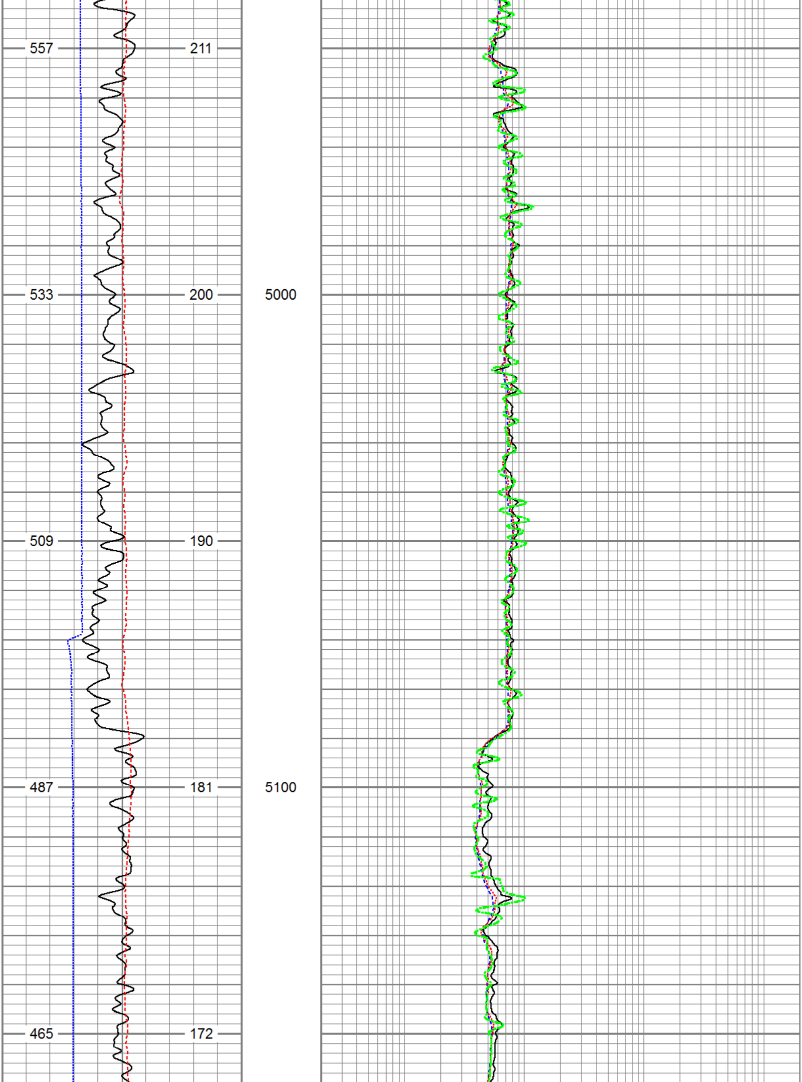
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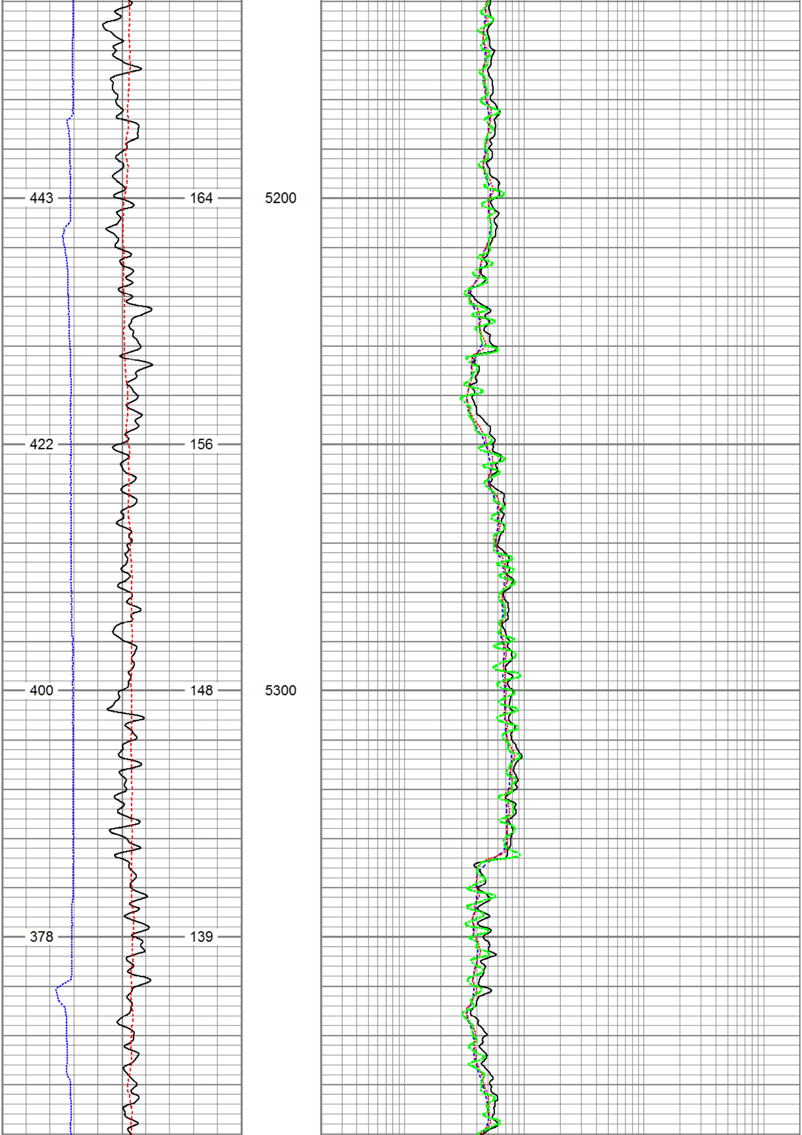
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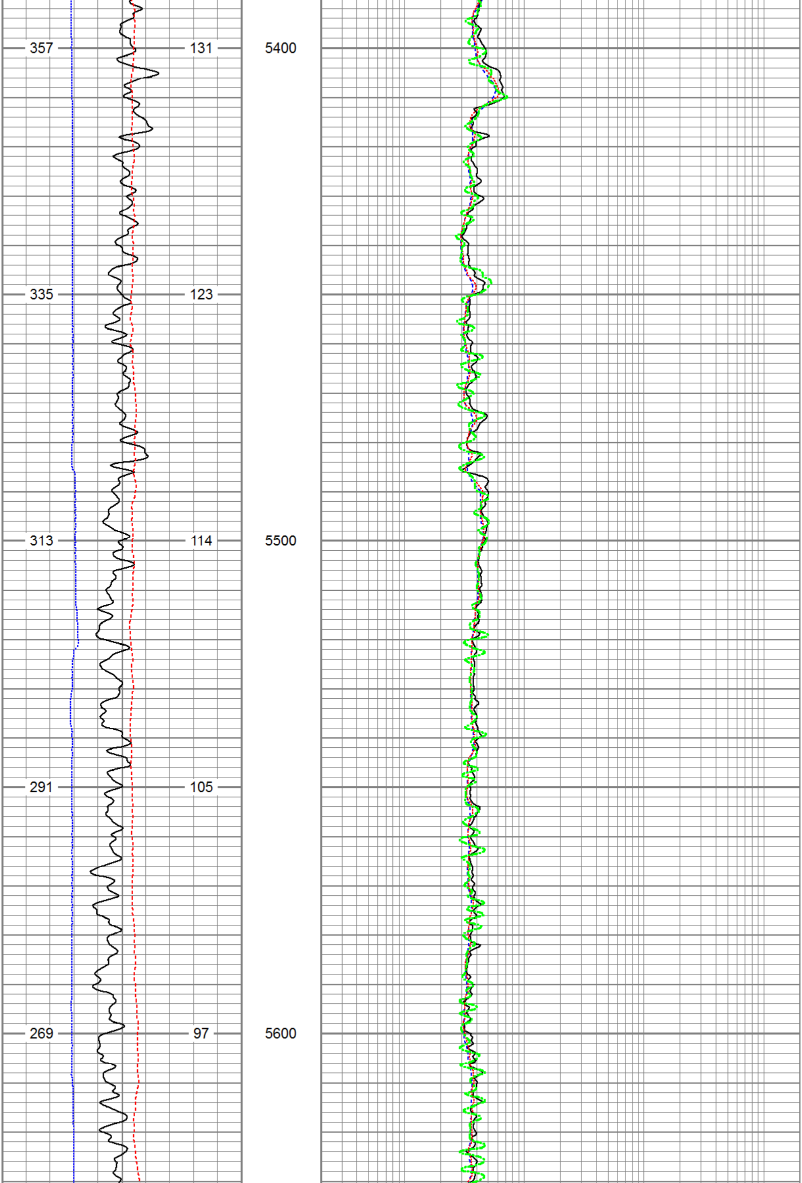
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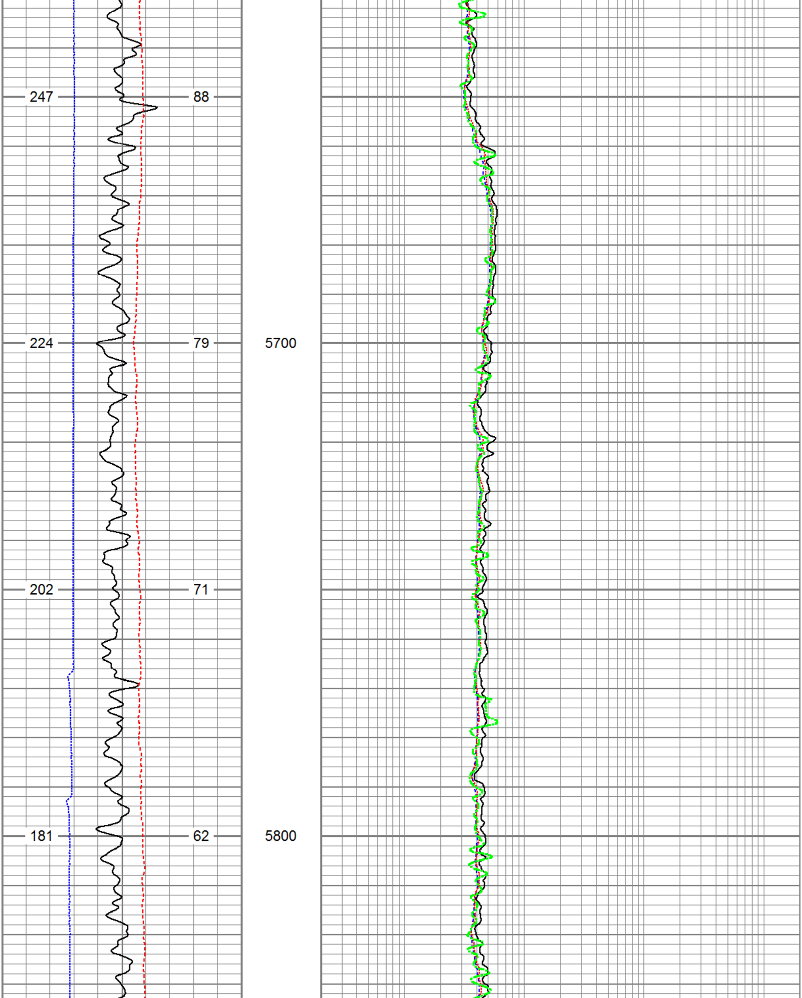
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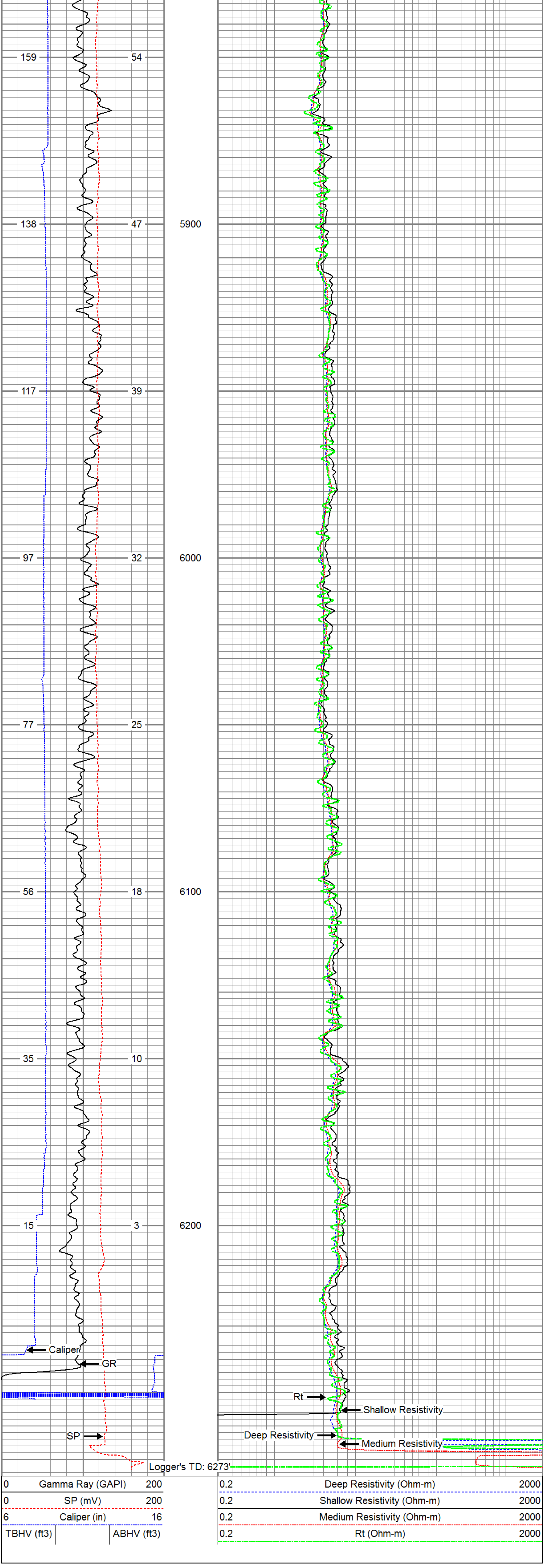

Calibration Report

Database File: 13601.db
Dataset Pathname: pass1
Dataset Creation: Tue Jul 08 02:33:44 2014 by Log 0

Dual Induction Calibration Report

Serial-Model: 1011-PSI
Surface Cal Performed:

	Readings		References			Results	
Loop:	Air	Loop	Air	Loop		m	b
Deep	0.000	1.000	0.000	1.000	mmho/m	0.510	-28.000
Medium	0.000	1.000	0.000	1.000	mmho/m	0.440	-28.000

Compensated Density Calibration Report

Serial-Model: 128-PSI
Master Calibration Performed: Sat May 24 17:51:40 2014

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.750	g/cc	5900.80	3069.93	cps
Aluminum	2.690	g/cc	1074.43	1919.88	cps

	Size		Reading
Small Ring		in	
Medium Ring		in	
Large Ring		in	

Gamma Ray Calibration Report

Serial Number: 939
Tool Model: PSI
Performed: Sat May 17 22:07:40 2014

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 0.6200 GAPI/cps