HIGH RESOLUTION COMPENSATED DENSITY SIDEWALL NEUTRON LOG

Company	LAYNE ENERGY OPERATING, LLC.
Well	SHULTZ # 4D-2
Field	LAFONTAINE
County	MONTGOMERY
State	KANSAS

Company LAYNE ENERGY OPERATING, LLC.

Well SHULTZ # 4D-2

Field LAFONTAINE

County MONTGOMERY **State** KANSAS

Location: API # : 15-125-32055-0000

NW NW NW NW
171' FNL & 325' FWL
SEC 2 TWP 31S RGE 14E

Other Services
DIL

Permanent Datum GL Elevation 919' est
Log Measured From GL
Drilling Measured From GL

Elevation
K.B. ---
D.F. ---
G.L. 919' est

Date	4-01-2011			
Run Number	ONE			
Depth Driller	1262'			
Depth Logger	1258'			
Bottom Logged Interval	1256'			
Top Log Interval	SURFACE			
Casing Driller	8.625" @ 20'			
Casing Logger	8.625" @ 20'			
Bit Size	6.75"			
Type Fluid in Hole	WATER			
Density / Viscosity				
pH / Fluid Loss				
Source of Sample				
Rm @ Meas. Temp				
Rmf @ Meas. Temp				
Rmc @ Meas. Temp				
Source of Rmf / Rmc				
Rm @ BHT				
Time Circulation Stopped				
Time Logger on Bottom				
Maximum Recorded Temperature				
Equipment Number	OW2			
Location	HOMINY, OK			
Recorded By	LOWERY			
Witnessed By	MR. McCLAIN			

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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

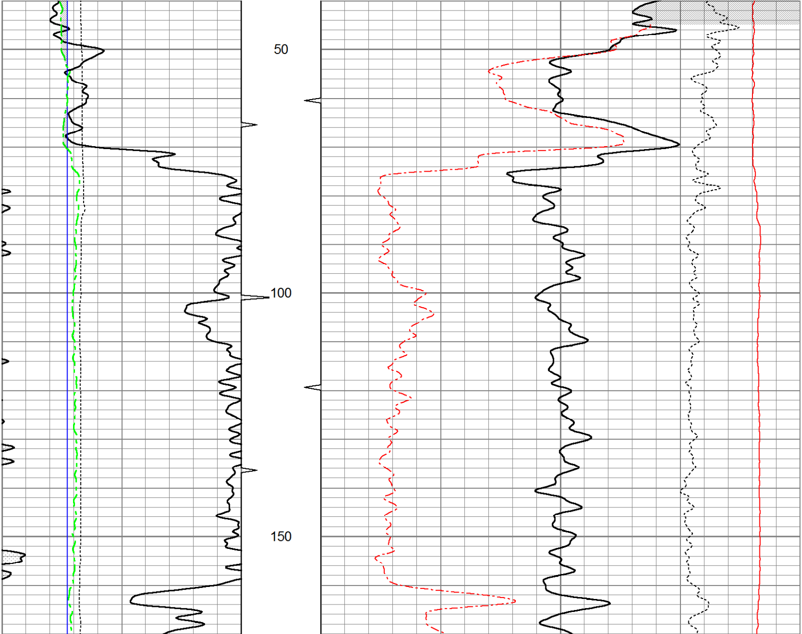
FILE # OW2-7359
MATRIX LIMESTONE 2.71 g/cc
ABHV COMPUTED WITH 4.5" CASING

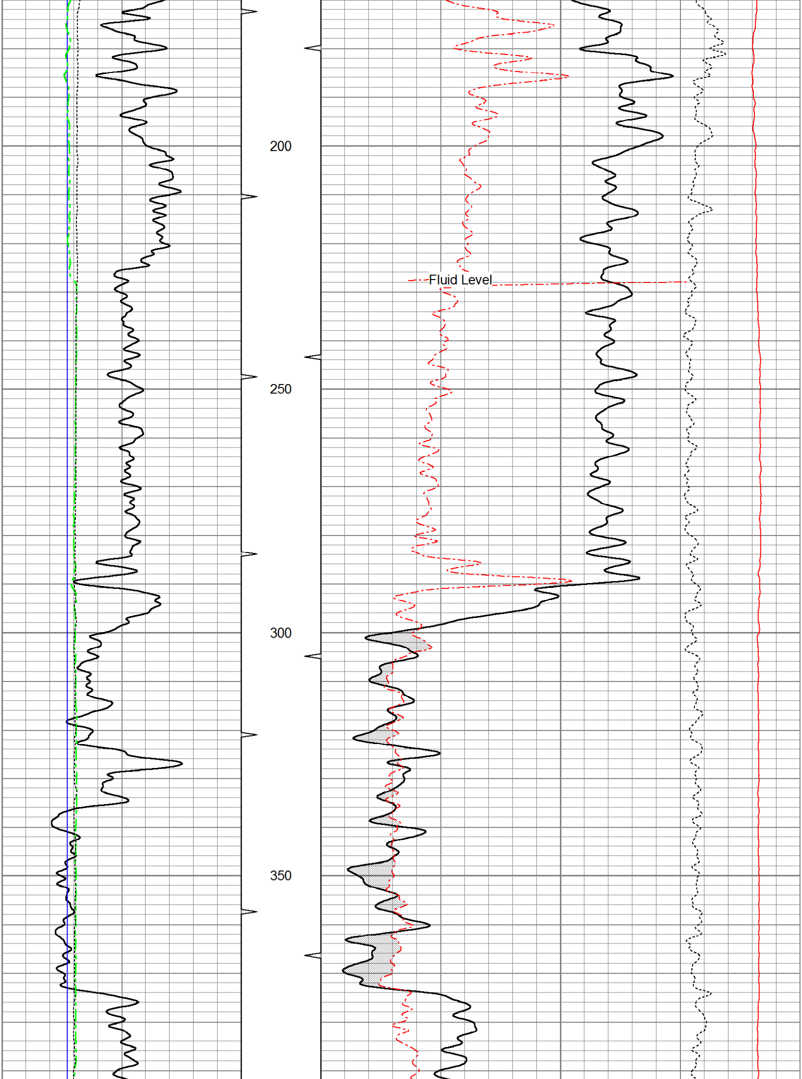
CREW : JOHNSON

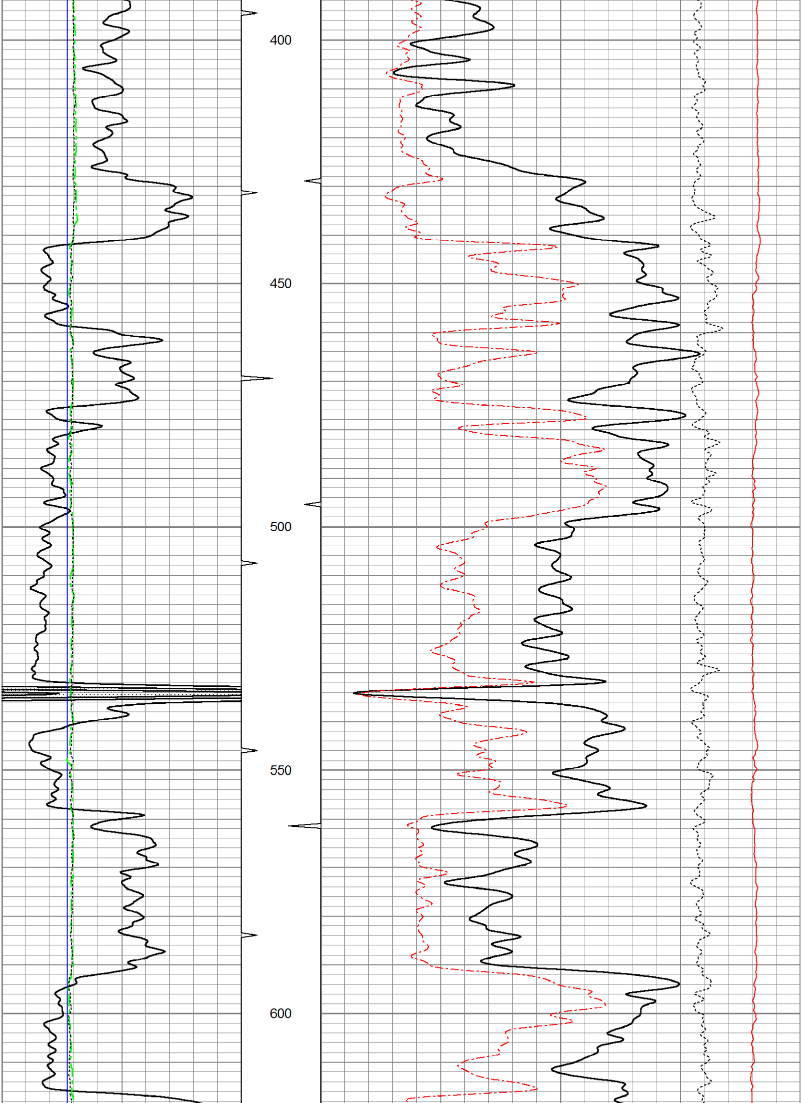
5" CDL/SWN SECTION

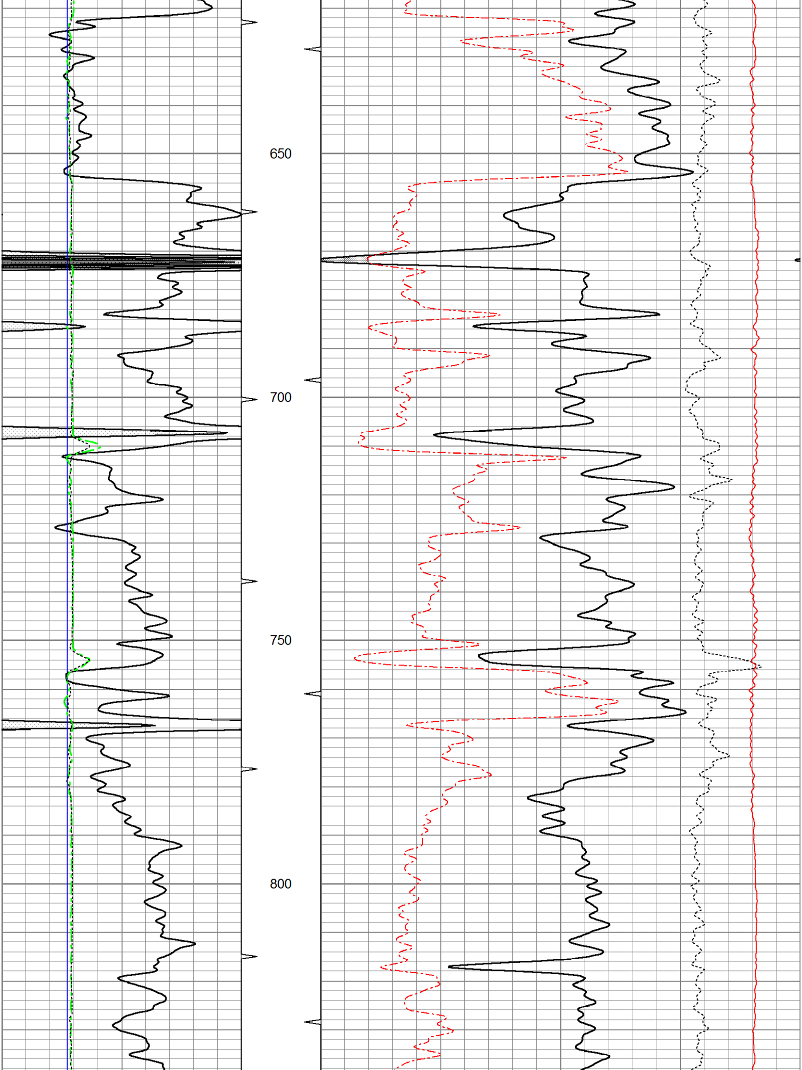
Database File:	ow2-7359 layne energy.db
Dataset Pathname:	CDL/pass1.2
Presentation Format:	_neu4
Dataset Creation:	Fri Apr 01 09:06:00 2011 by Calc Open-Cased 110302
Charted by:	Depth in Feet scaled 1:240

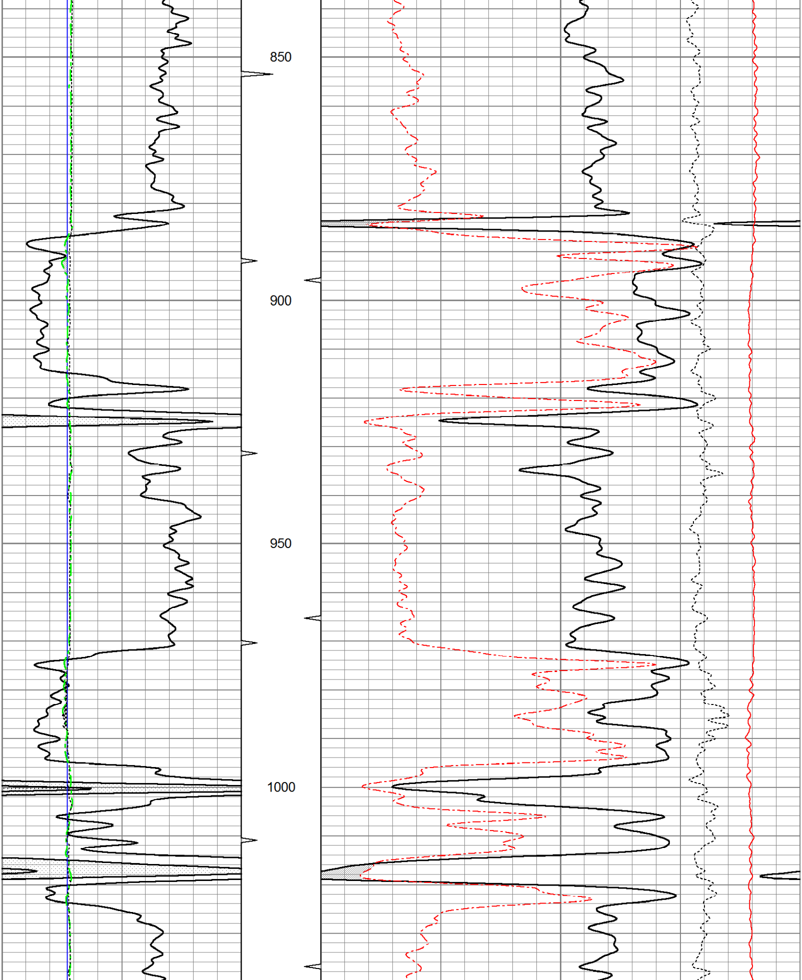
0	Gamma Ray (GAPI)	150	TBHV	30	Density Porosity (pu)	-10
4	Bit size (in)	14	ABHV	30	Neutron Porosity (pu)	-10
4	Neutron Caliper (in)	14		-0.5	Correction (g/cc)	0.5
4	Density Caliper (in)	14		5000	Line Tension (lb)	0

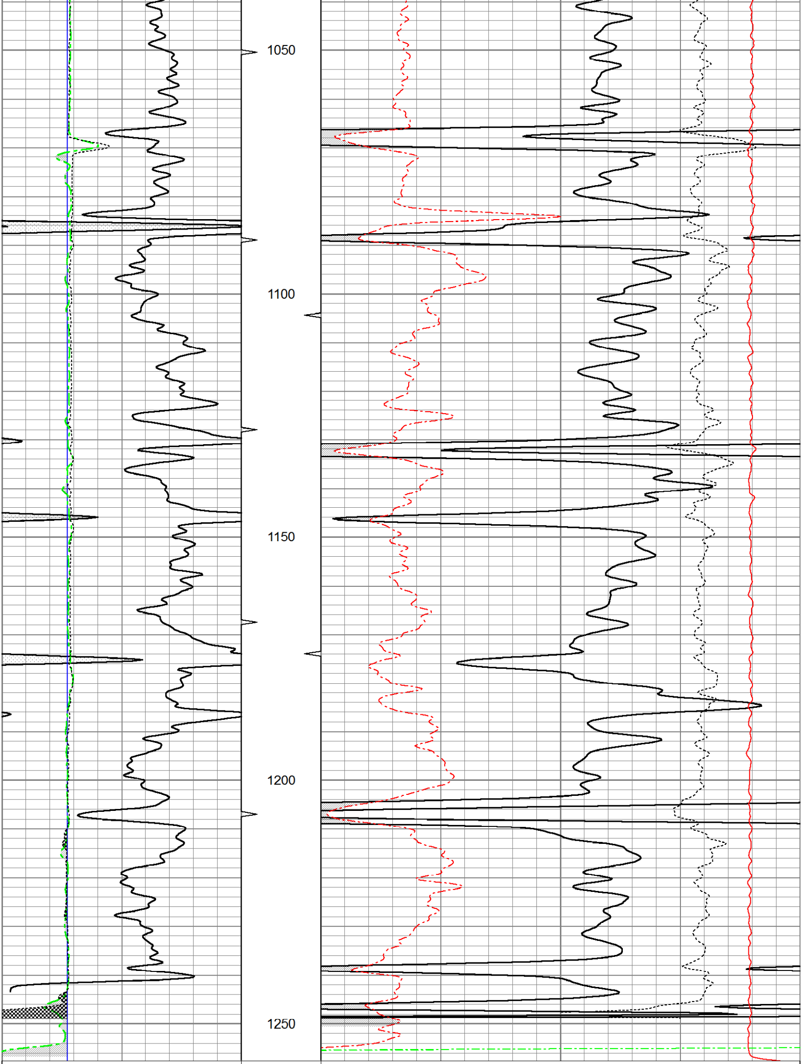












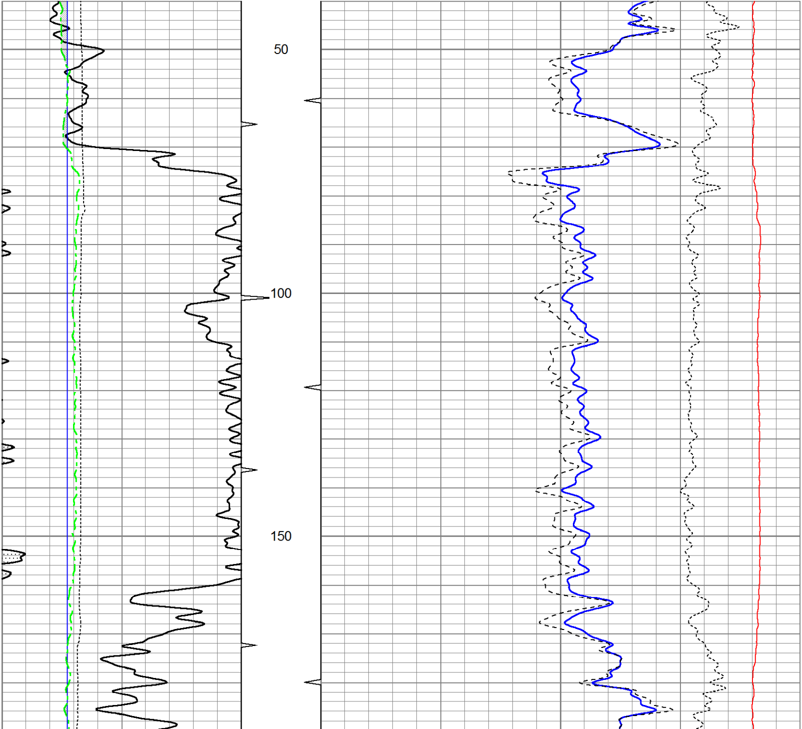
0	Gamma Ray (GAPI)	150
4	Bit size (in)	14
4	Neutron Caliper (in)	14
4	Density Caliper (in)	14
	TBHV	
	ABHV	
30	Density Porosity (pu)	-10
30	Neutron Porosity (pu)	-10
-0.5	Correction (g/cc)	0.5
5000	Line Tension (lb)	0

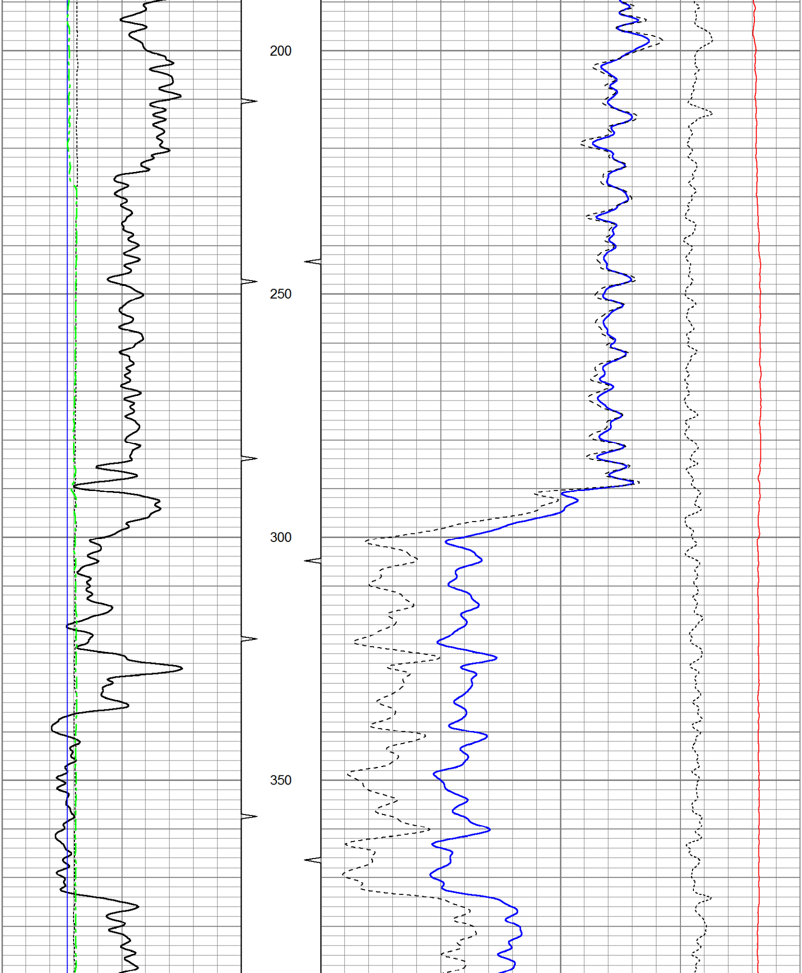
OSAGE WIRELINE

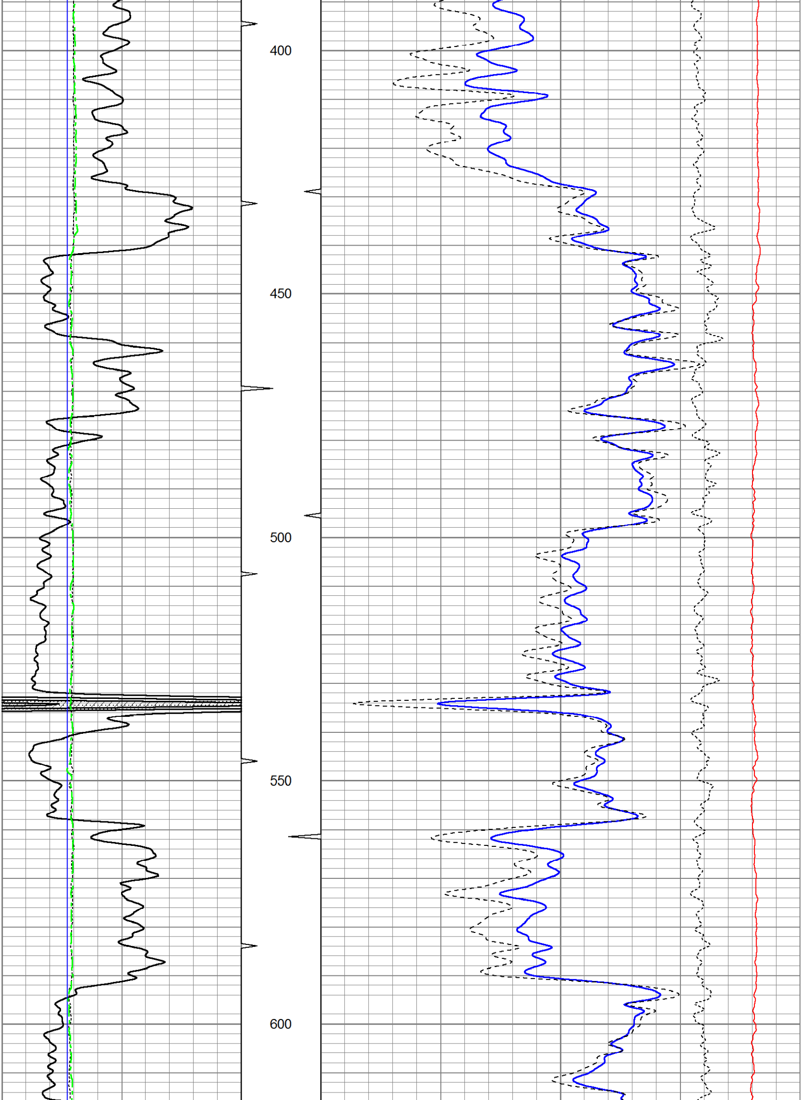
5" CDL SECTION

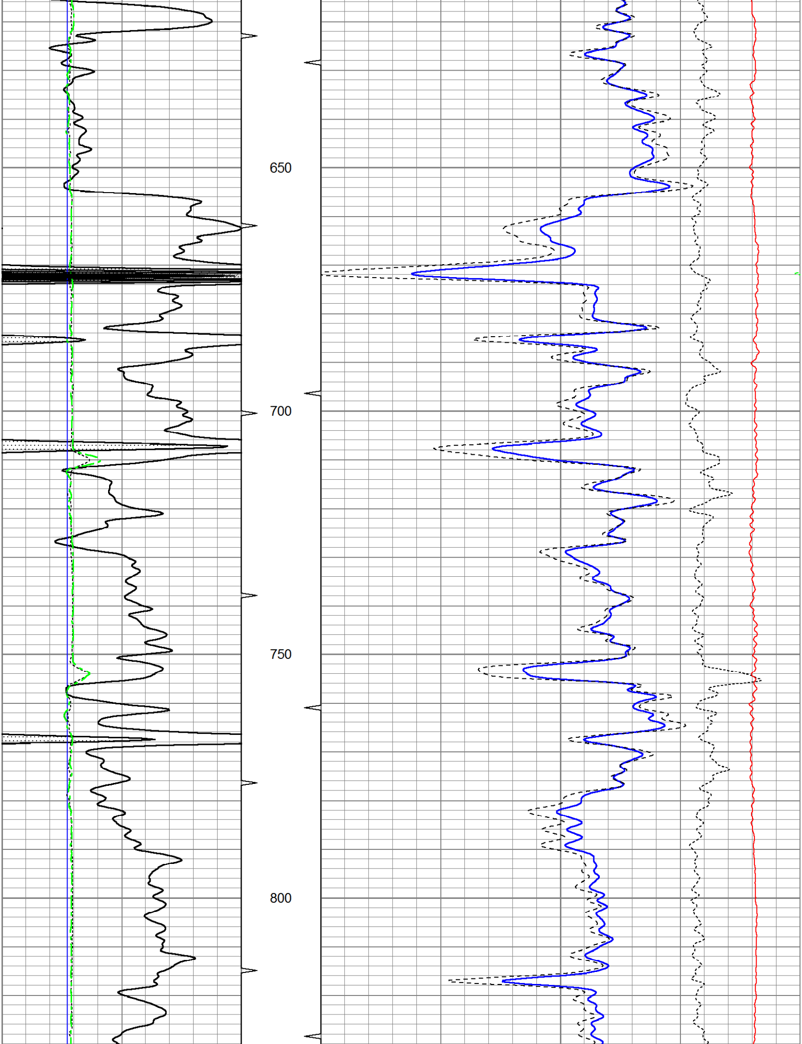
Database File:	ow2-7359 layne energy.db
Dataset Pathname:	CDL/pass1.1
Presentation Format:	bulk4
Dataset Creation:	Fri Apr 01 09:04:45 2011 by Calc Open-Cased 110302
Charted by:	Depth in Feet scaled 1:240

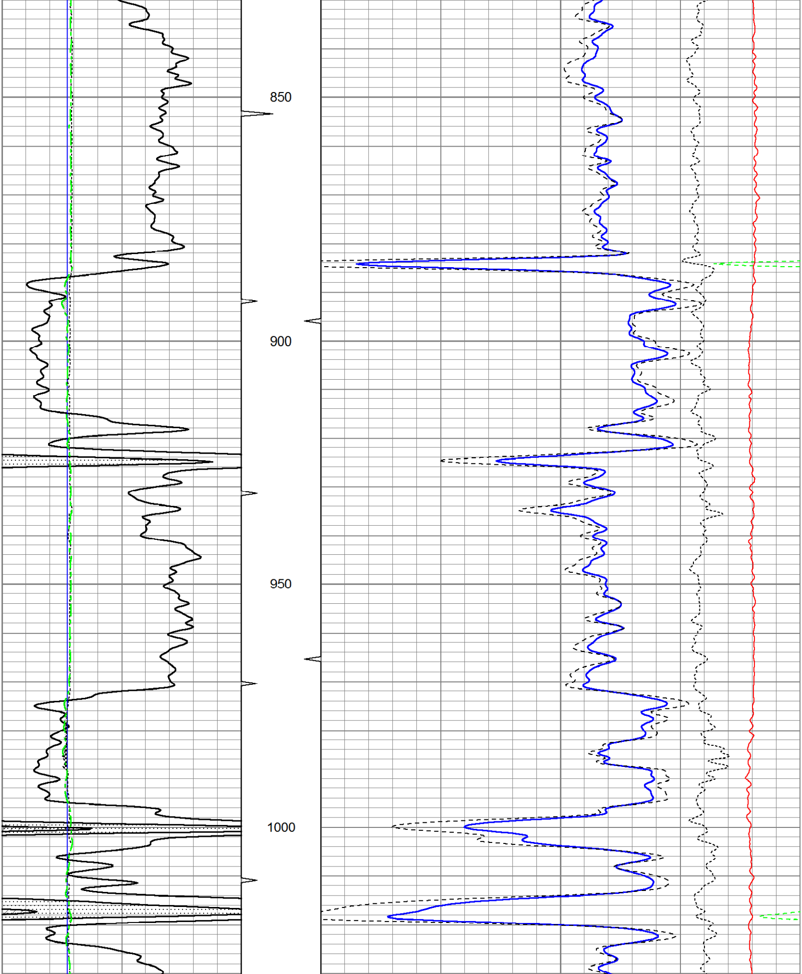
0	Gamma Ray (GAPI)	150	TBHV	2	Bulk Density (g/cc)		3
4	Bit size (in)	14	ABHV	30	Density porosity (pu)		-10
4	Density Caliper (in)	14			-0.5	Correction (g/cc)	0.5
4	Neutron Caliper (in)	14			5000	Line Tension (lb)	0

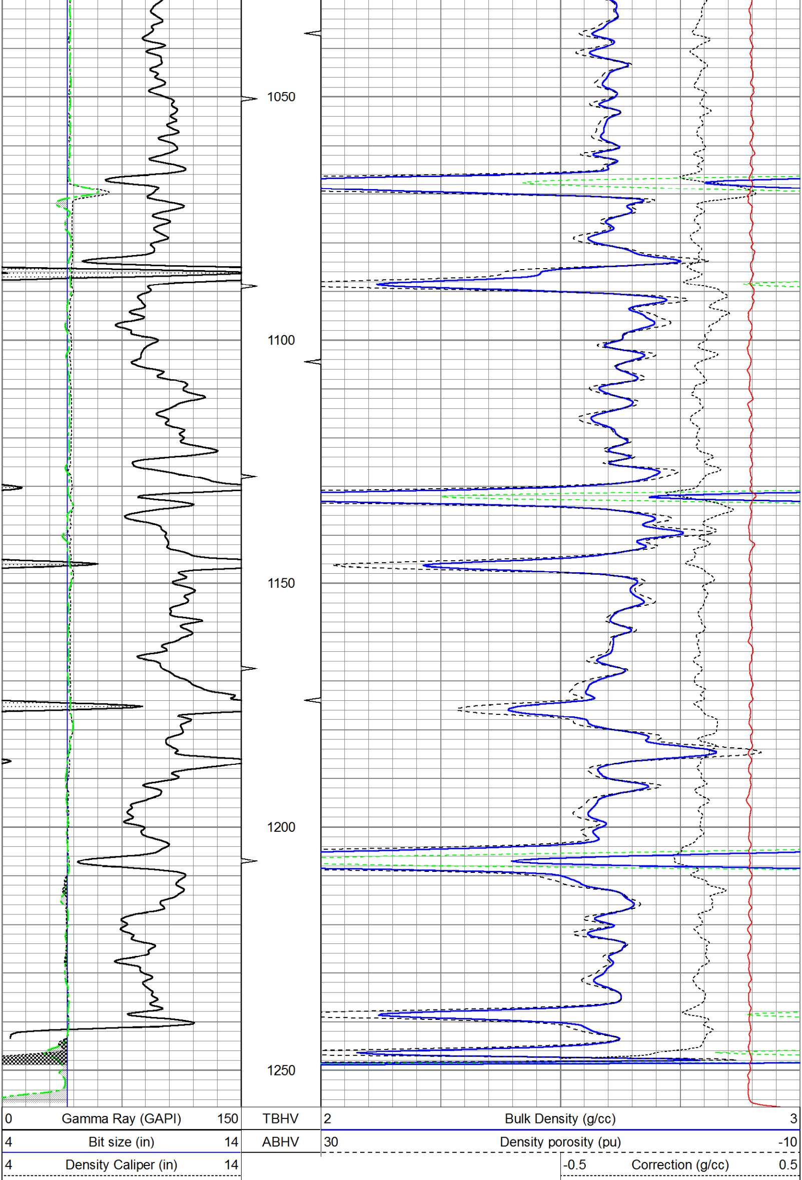












4 Neutron Caliper (in) 14	5000 Line Tension (lb) 0

25" HR CDL SECTION

Database File: ow2-7359 layne energy.db
Dataset Pathname: CDL/pass1.3
Presentation Format: bulk4hr
Dataset Creation: Fri Apr 01 09:06:18 2011 by Calc Open-Cased 110302
Charted by: Depth in Feet scaled 1:48

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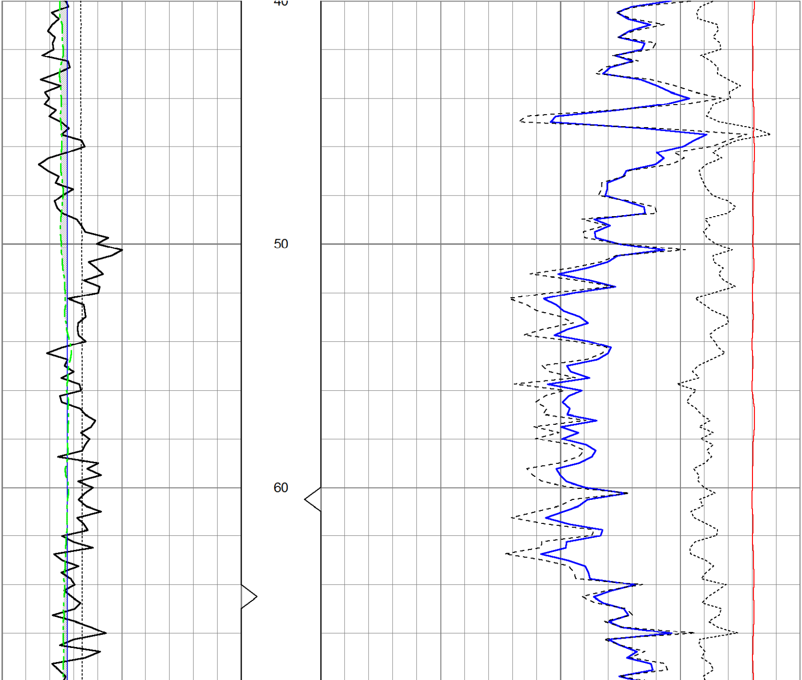
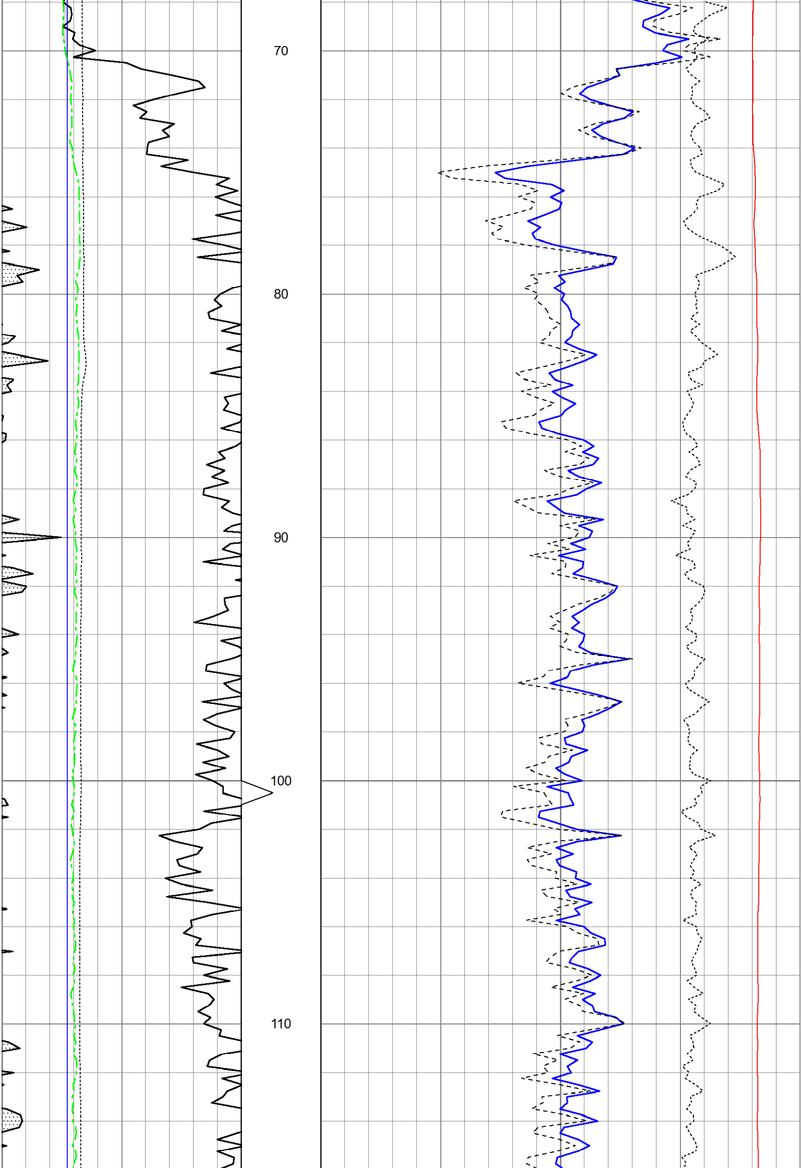
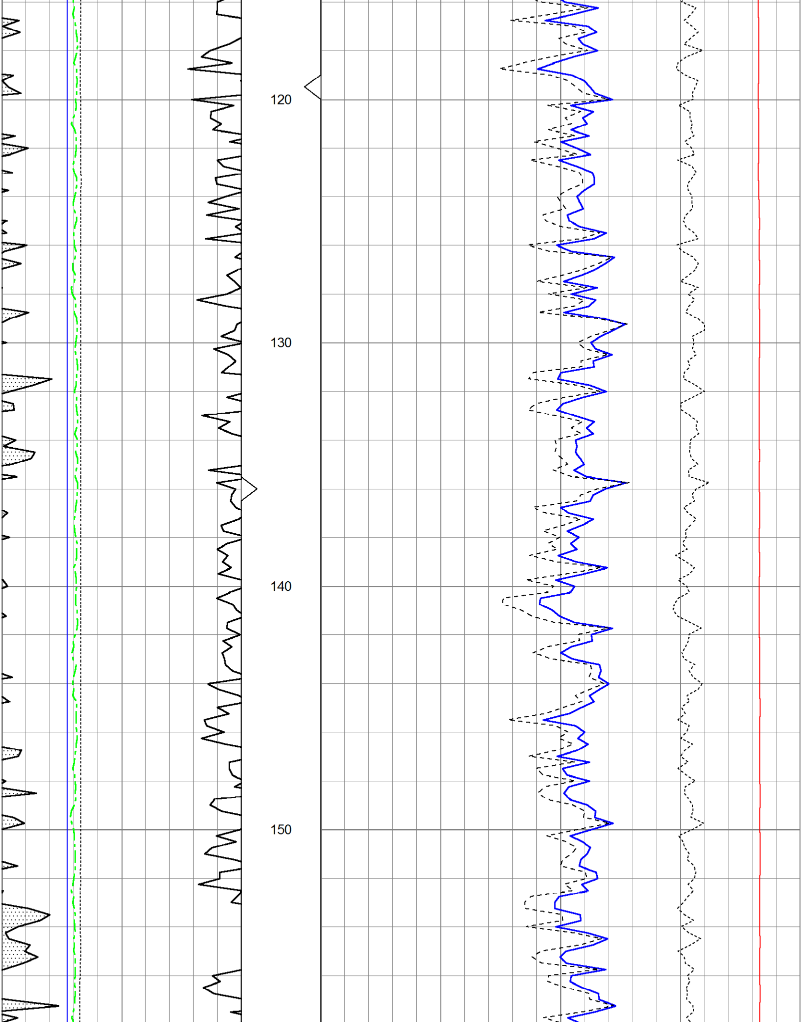
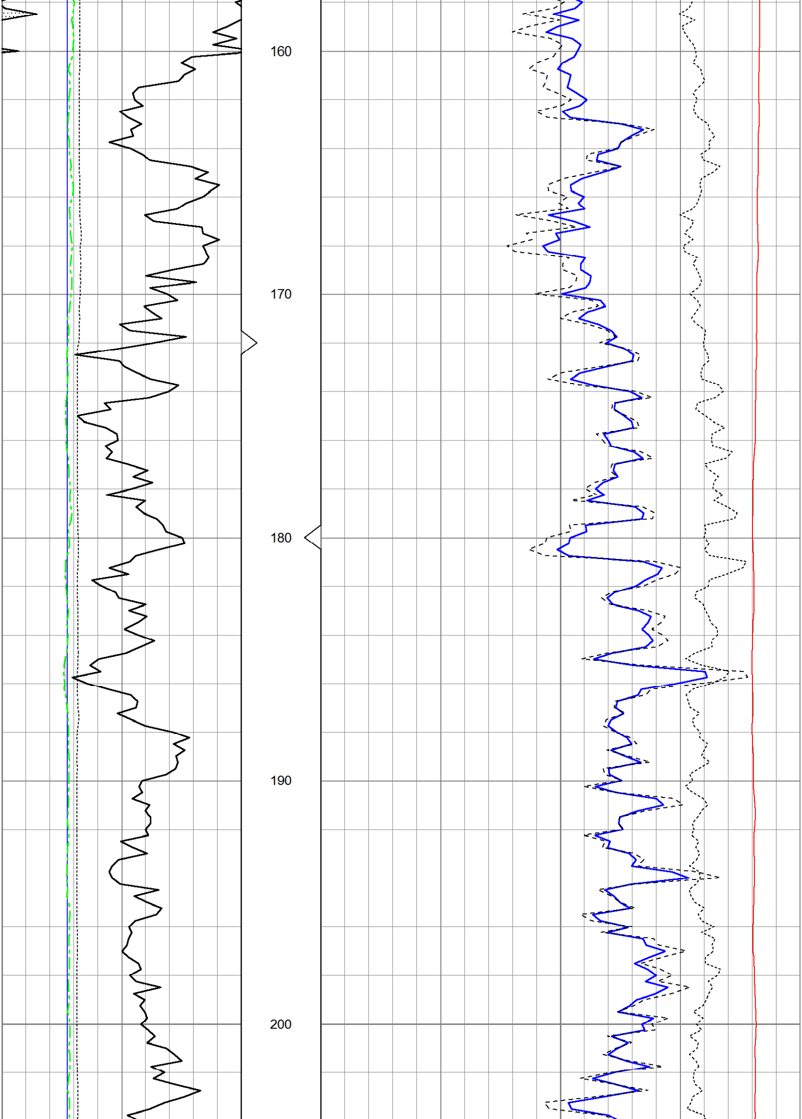
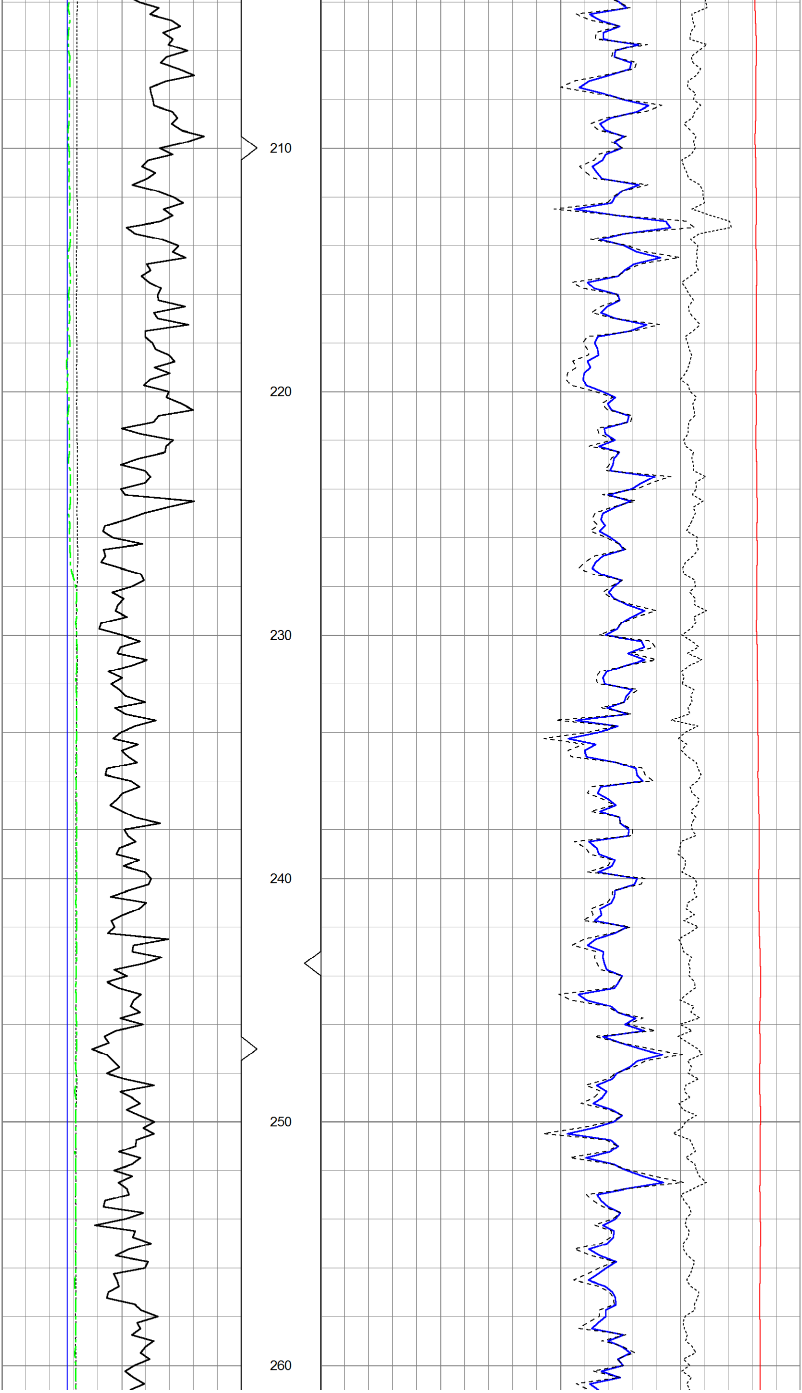
4 Bit size (in) 14	ABHV	30 Density porosity (pu) -10
4 Density Caliper (in) 14		-0.5 Correction (g/cc) 0.5
4 Neutron Caliper (in) 14		5000 Line Tension (lb) 0

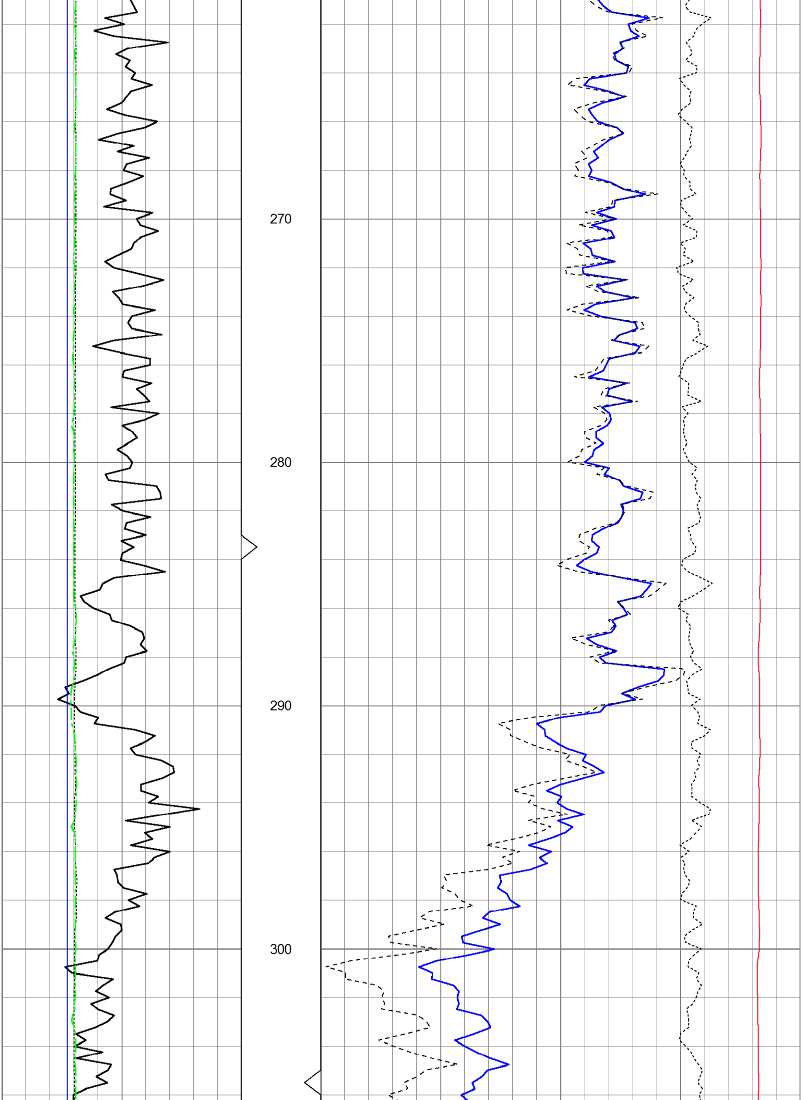








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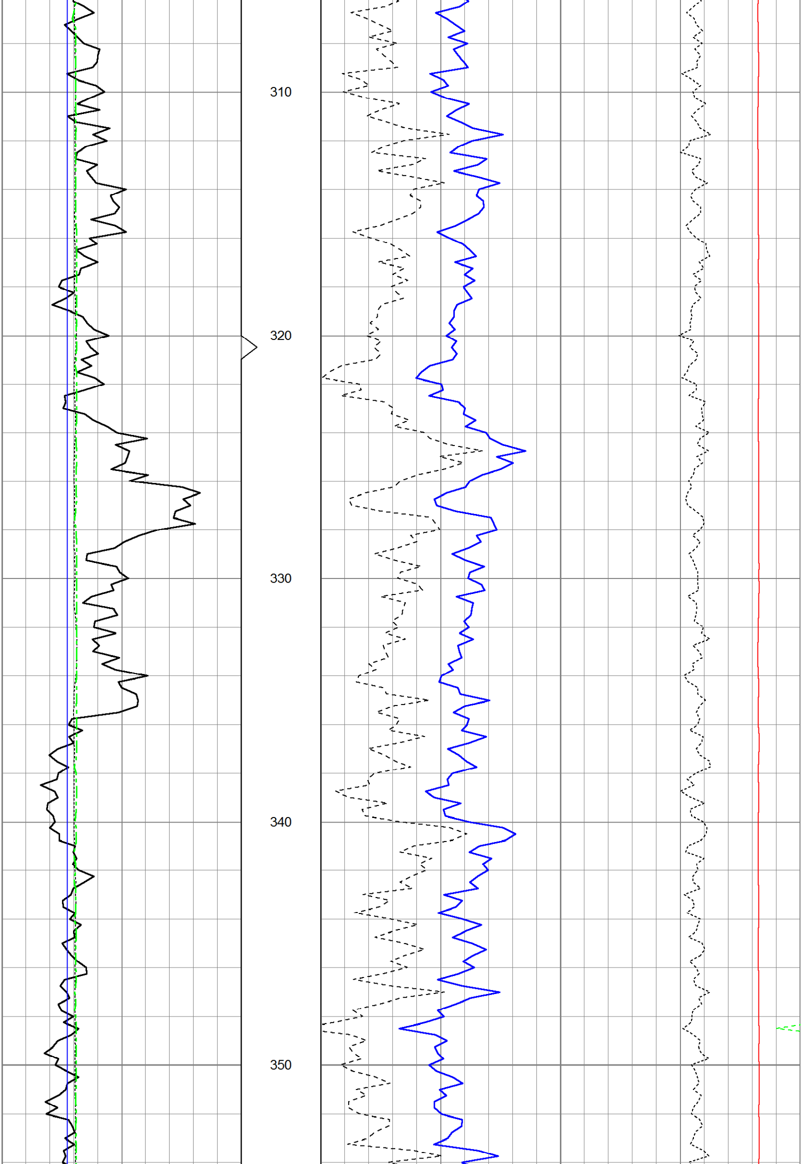
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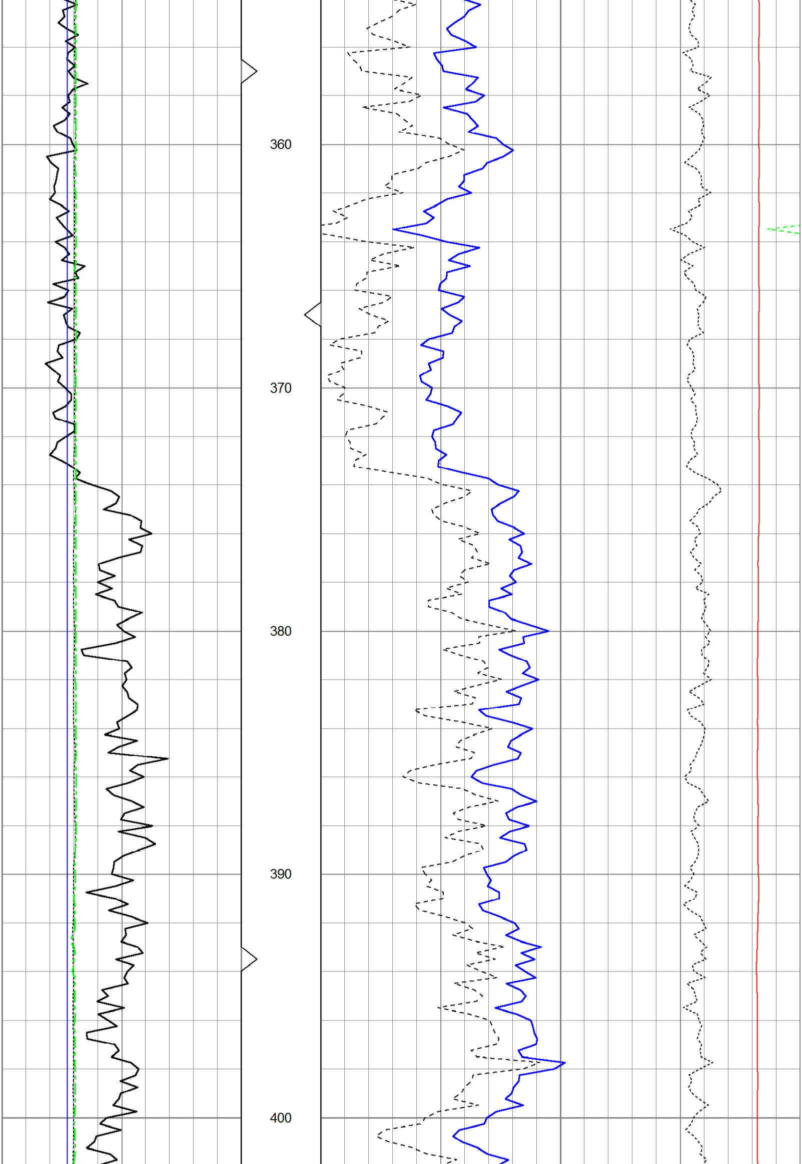
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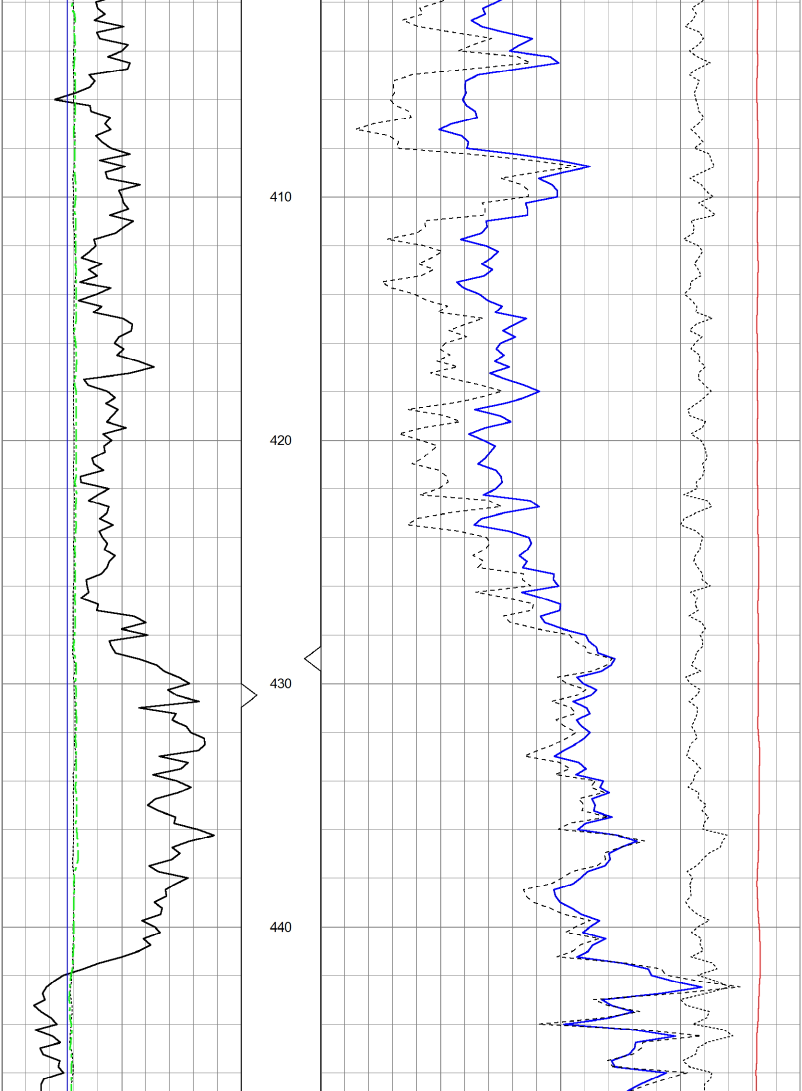
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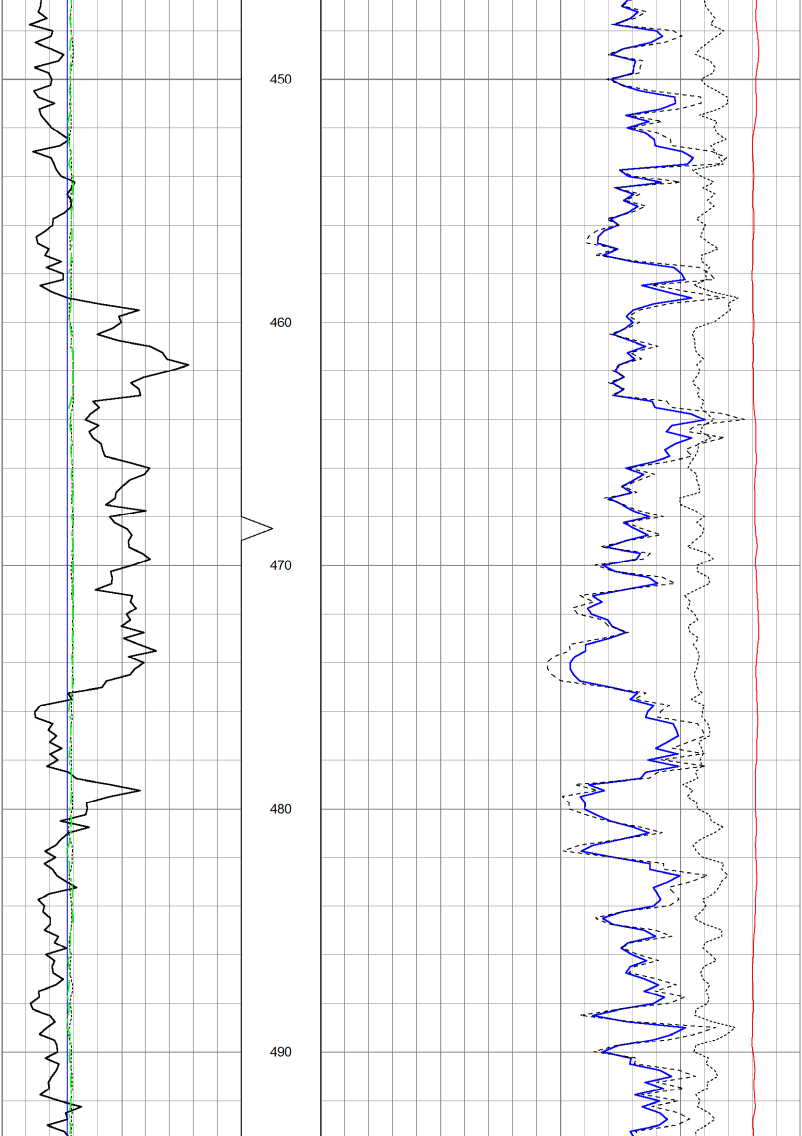
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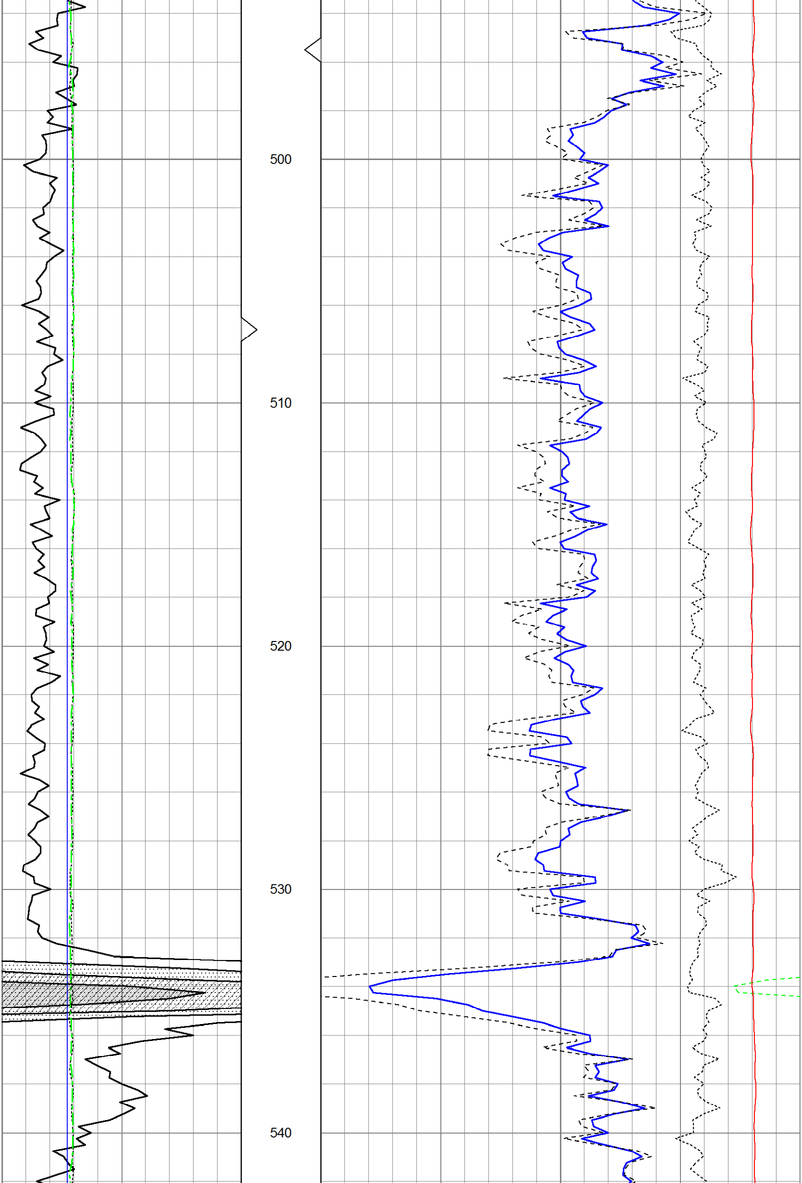
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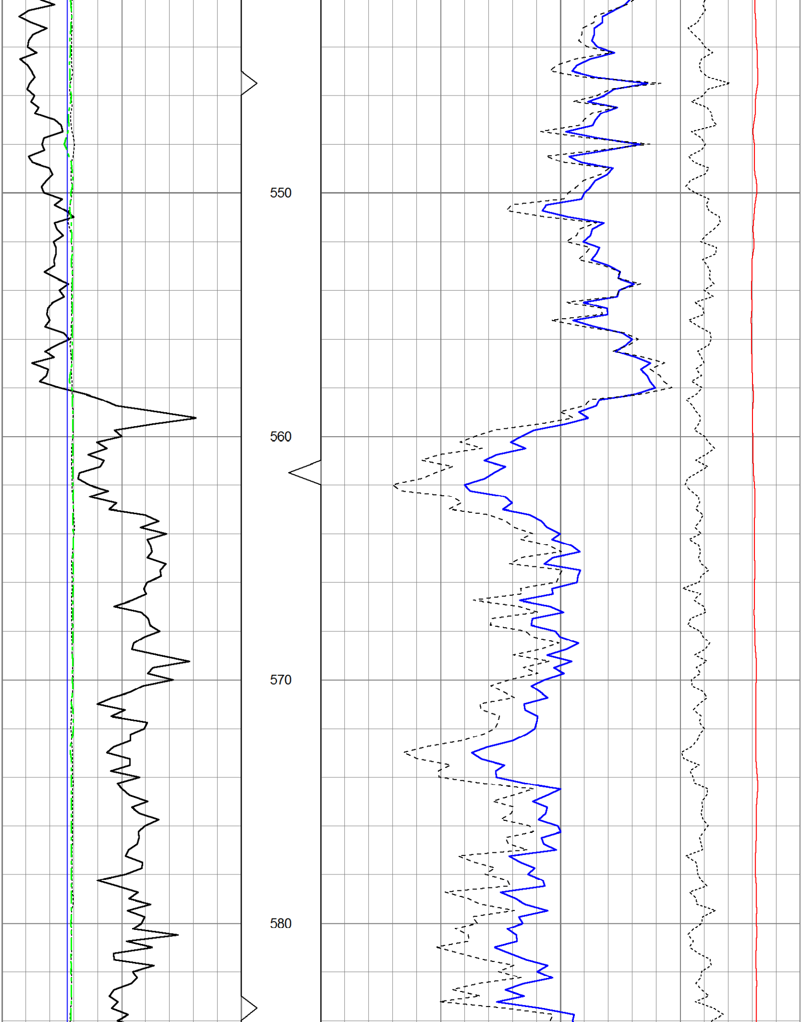
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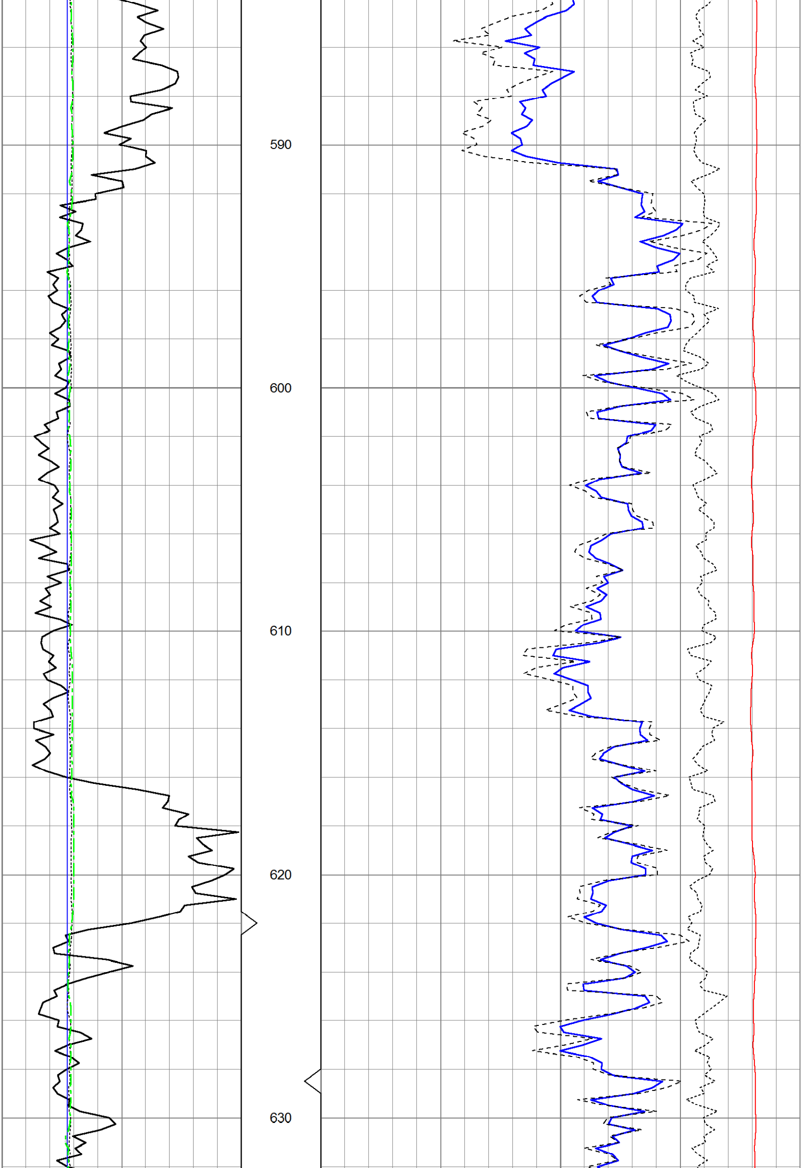
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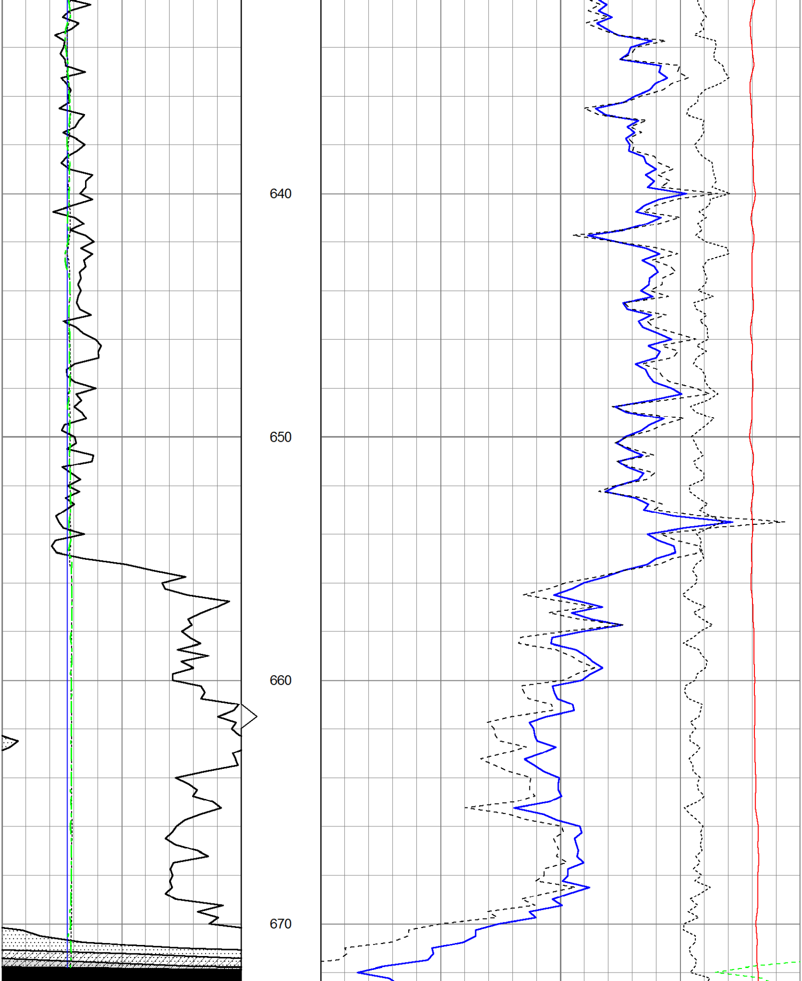
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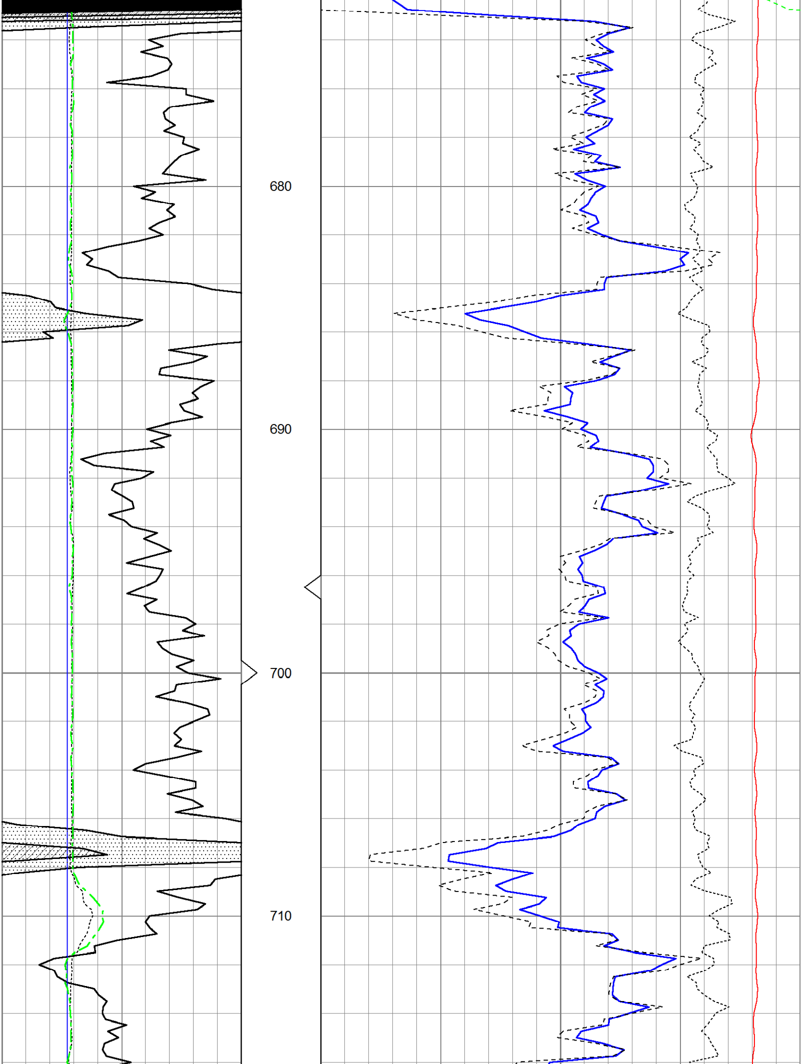
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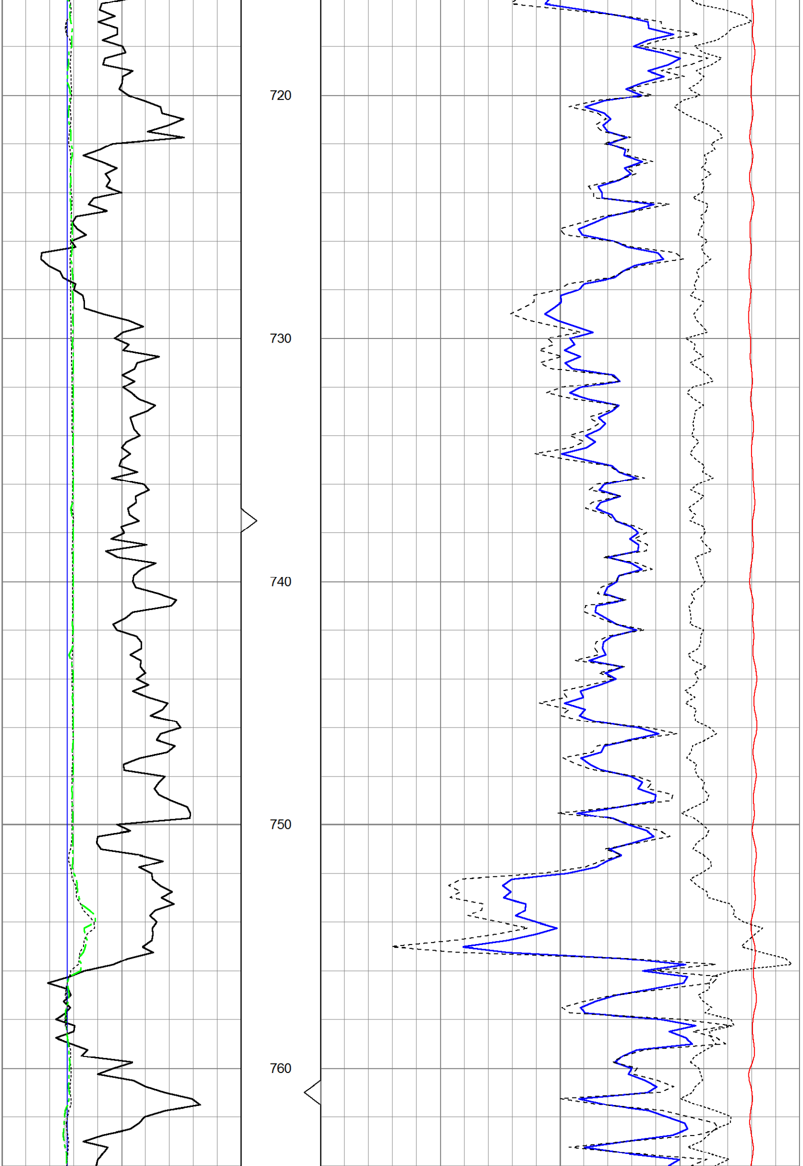
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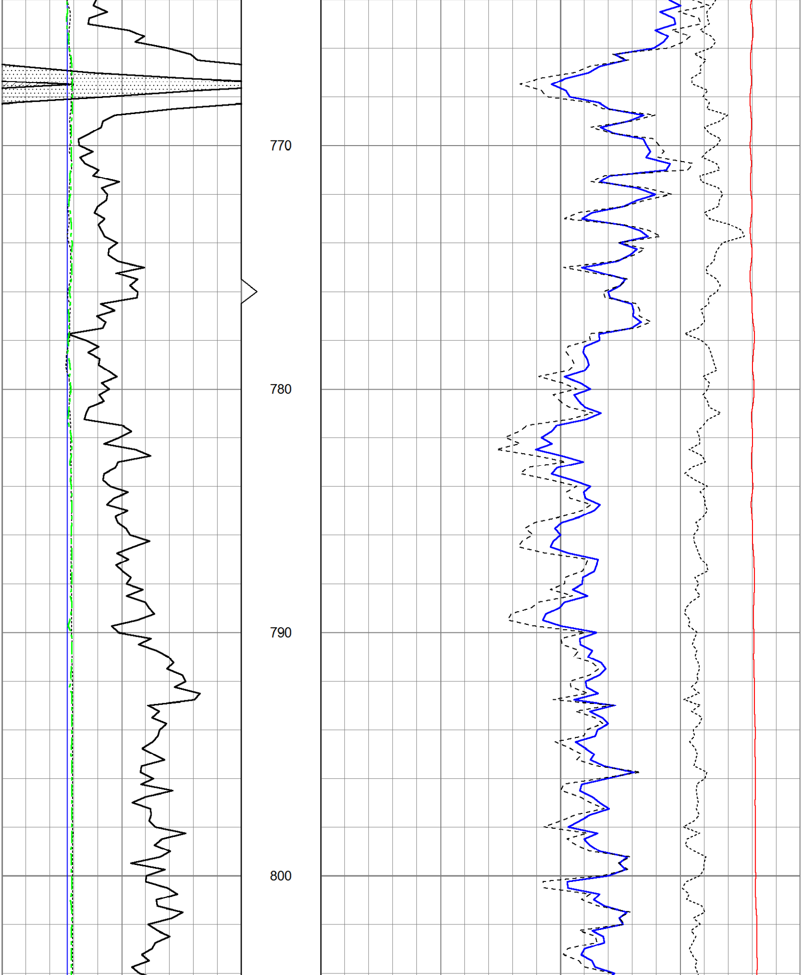
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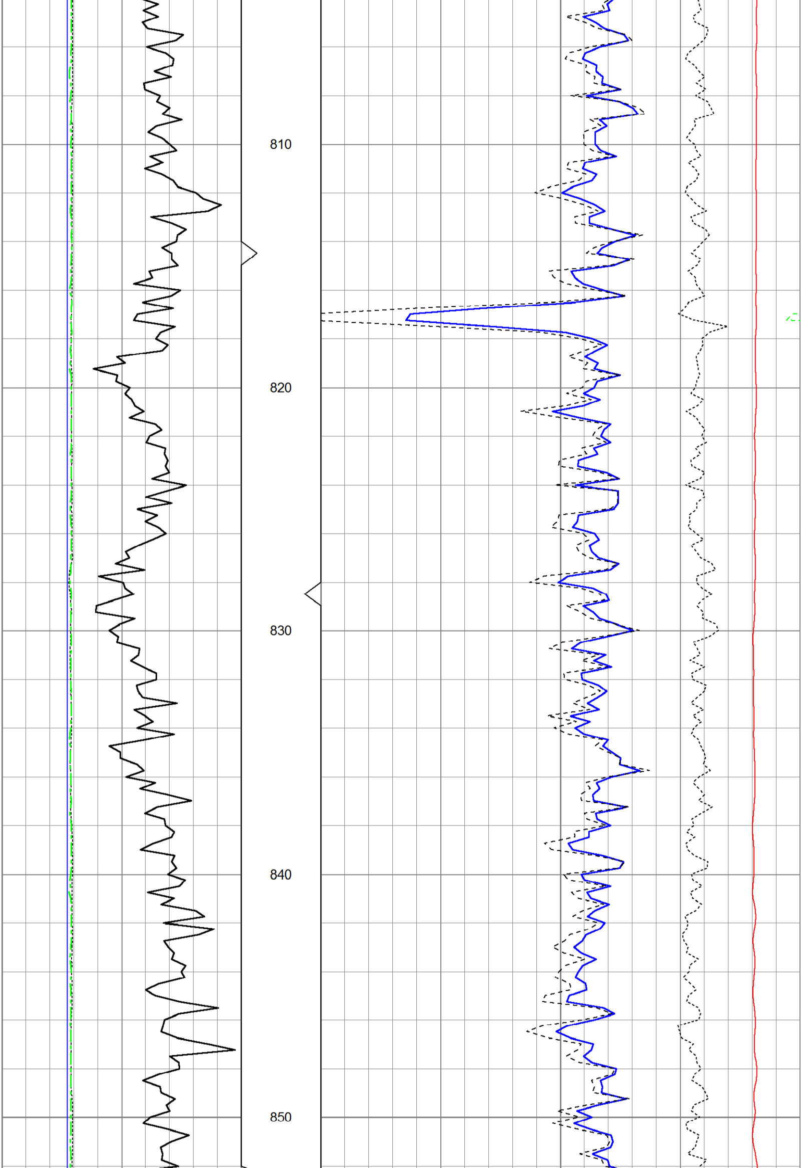
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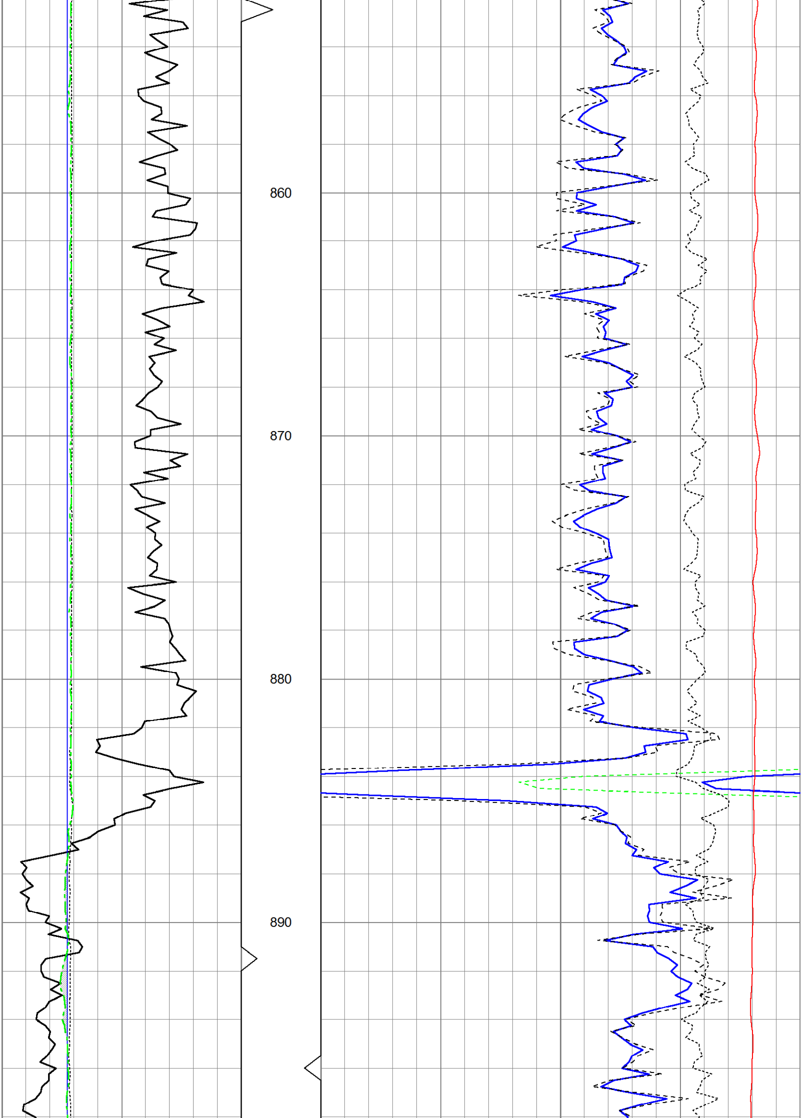
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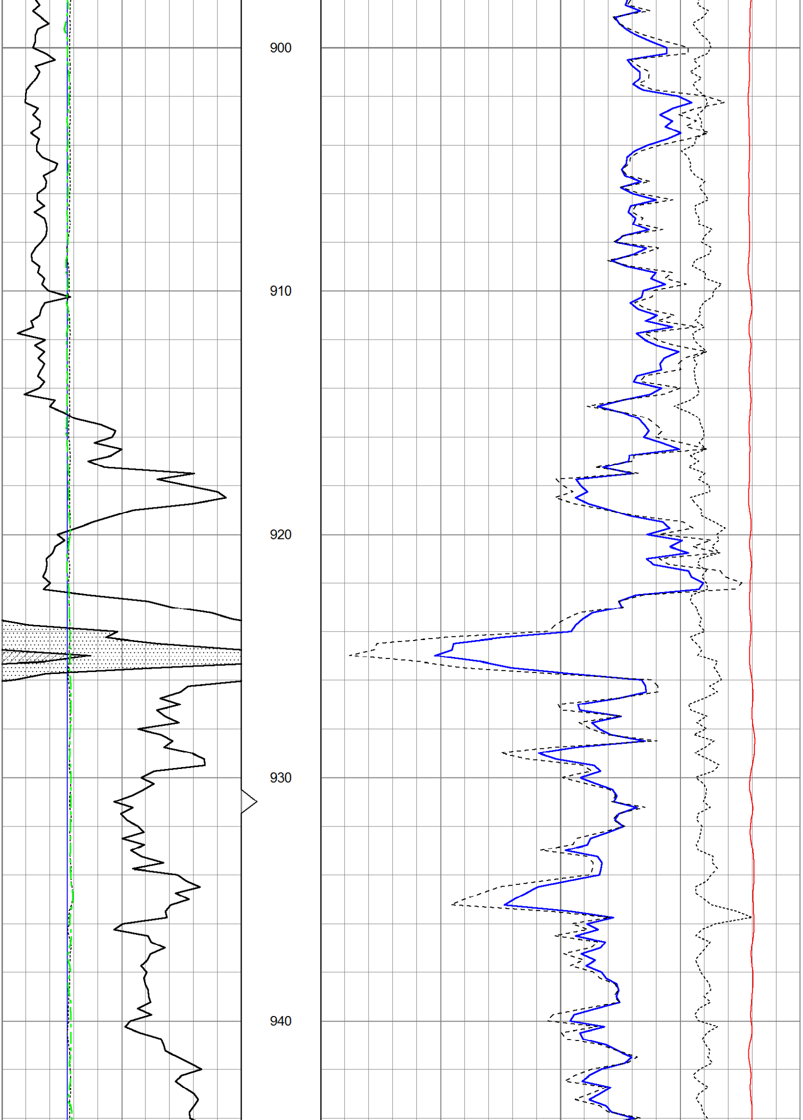
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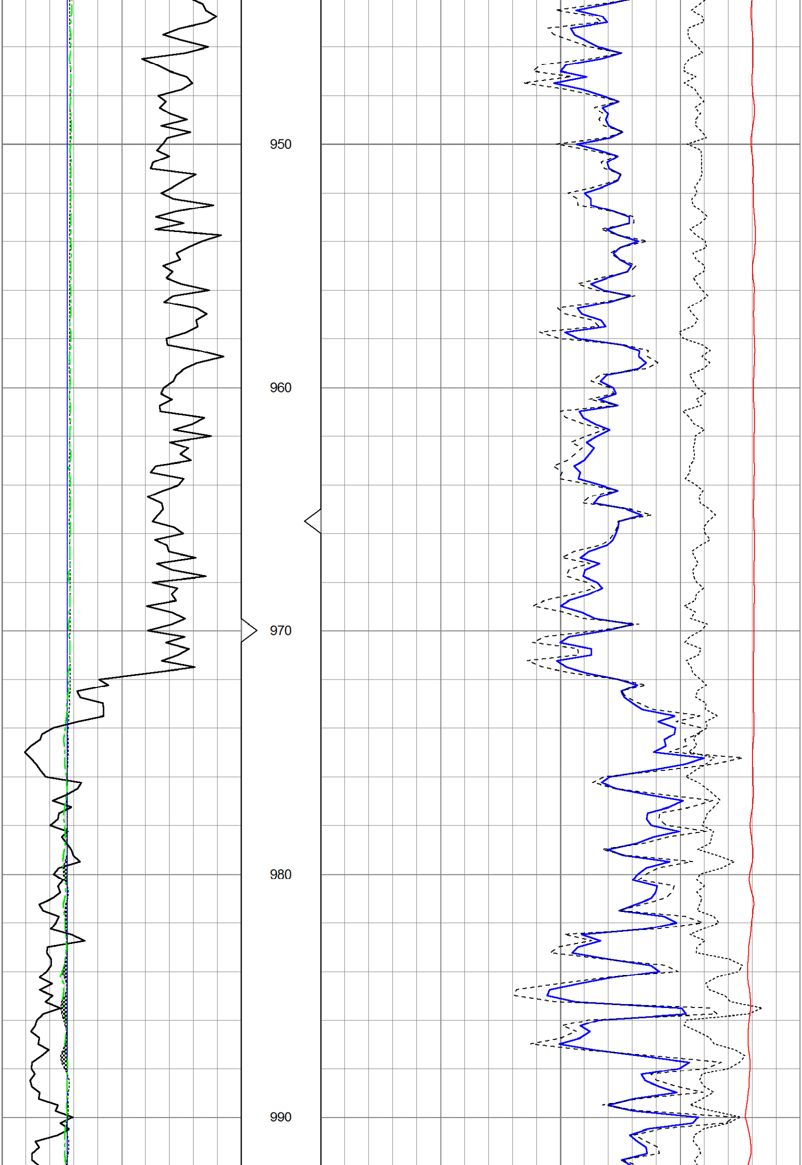
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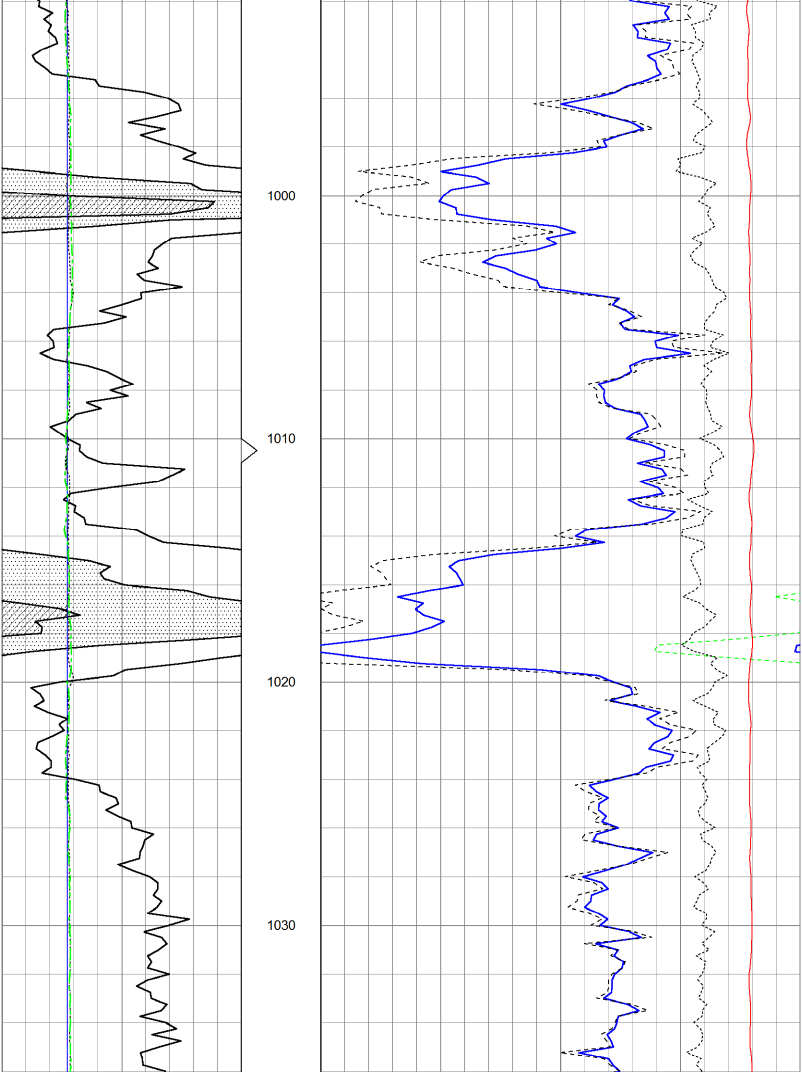
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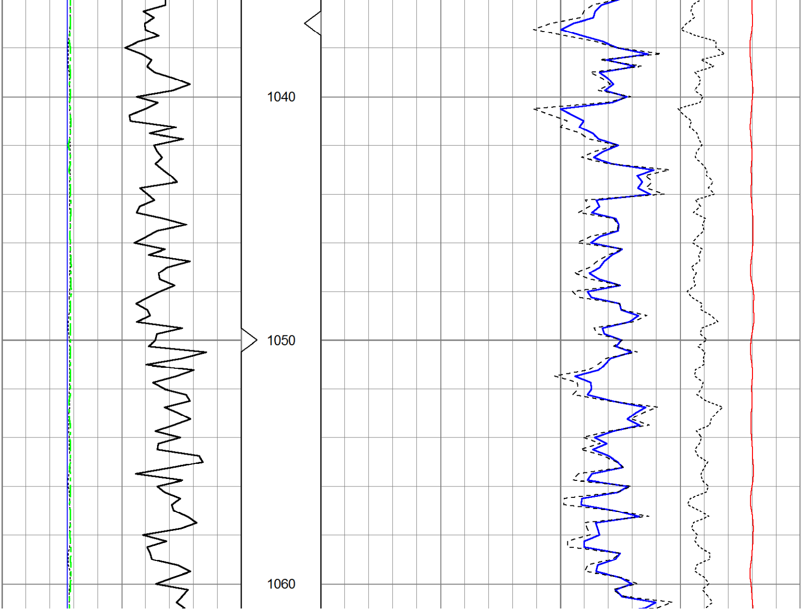
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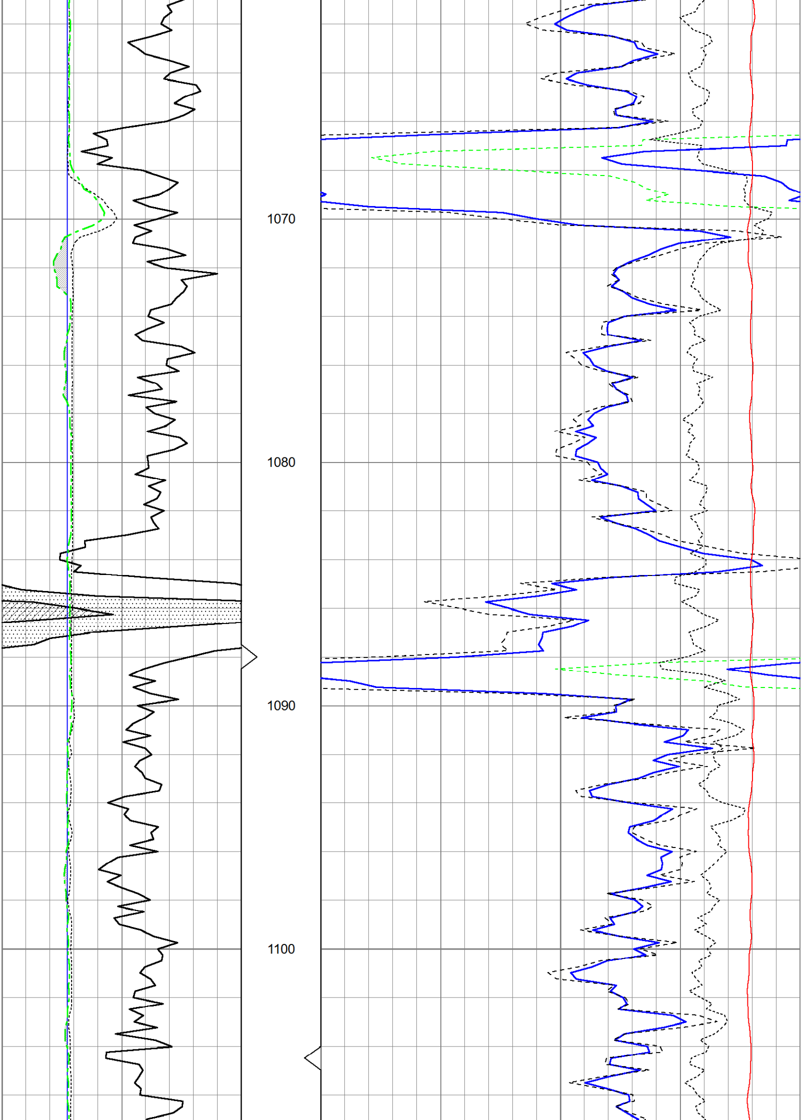
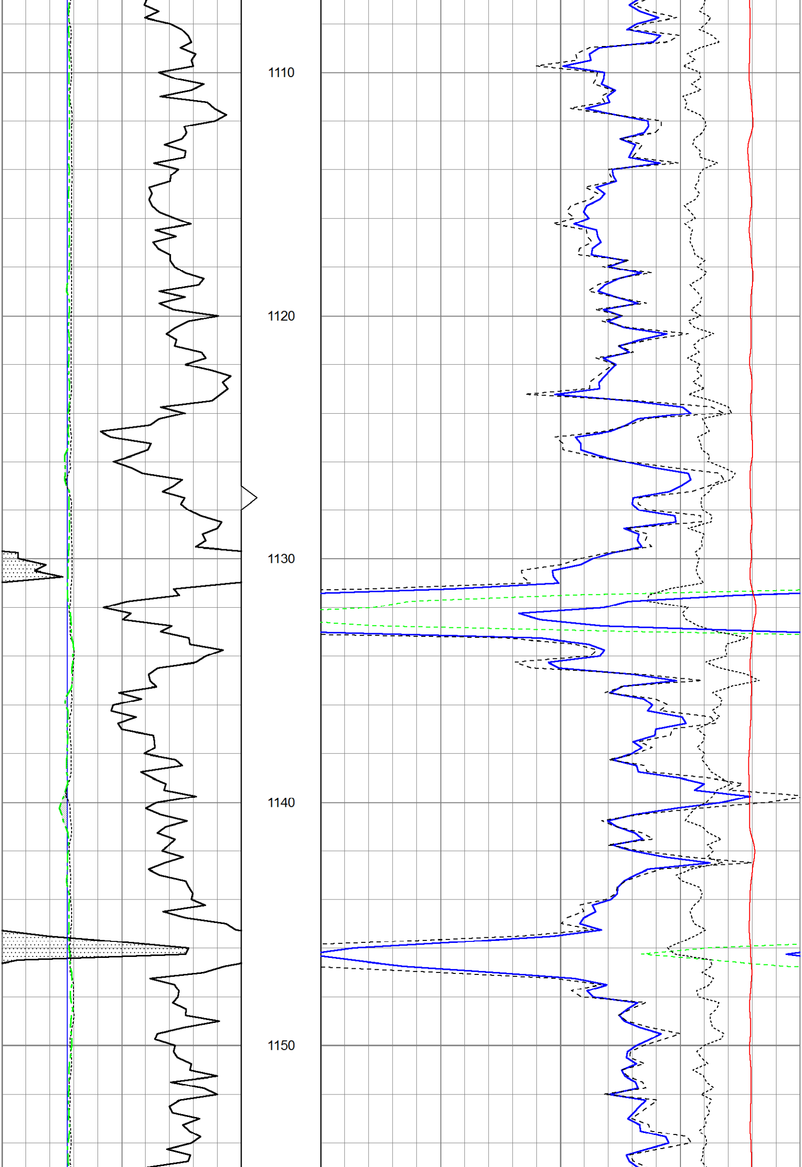
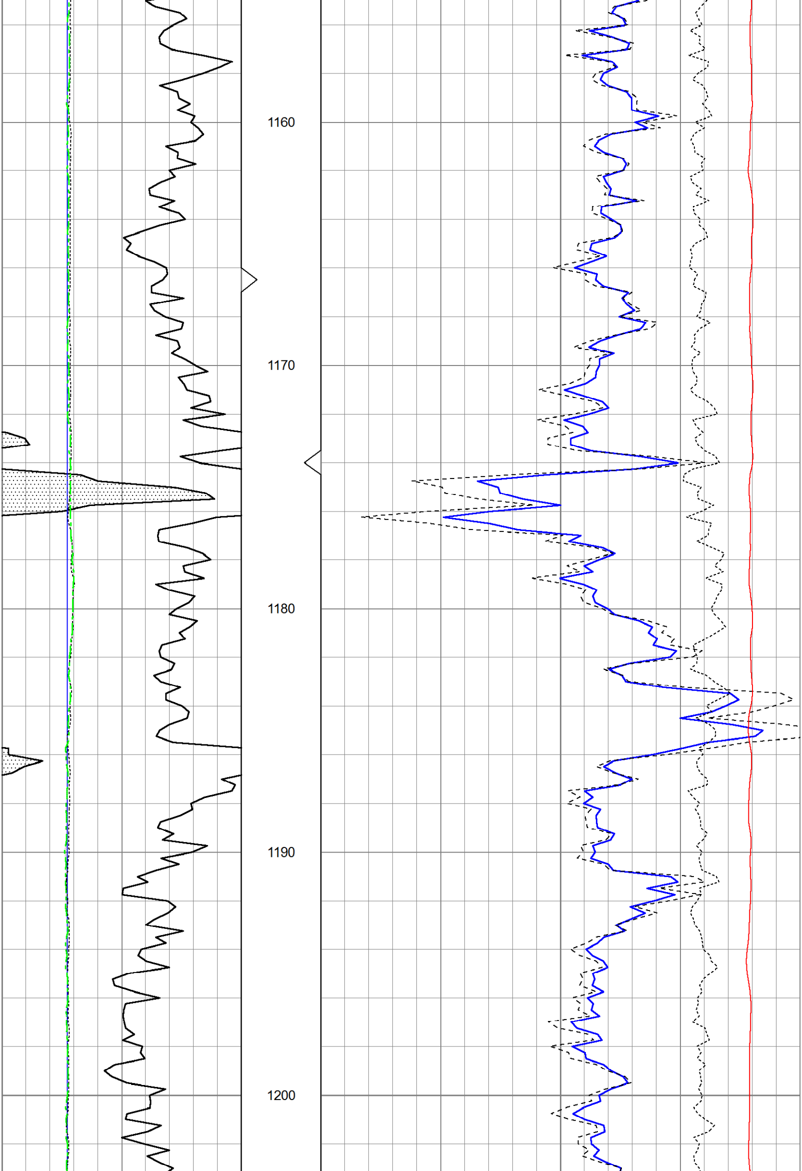
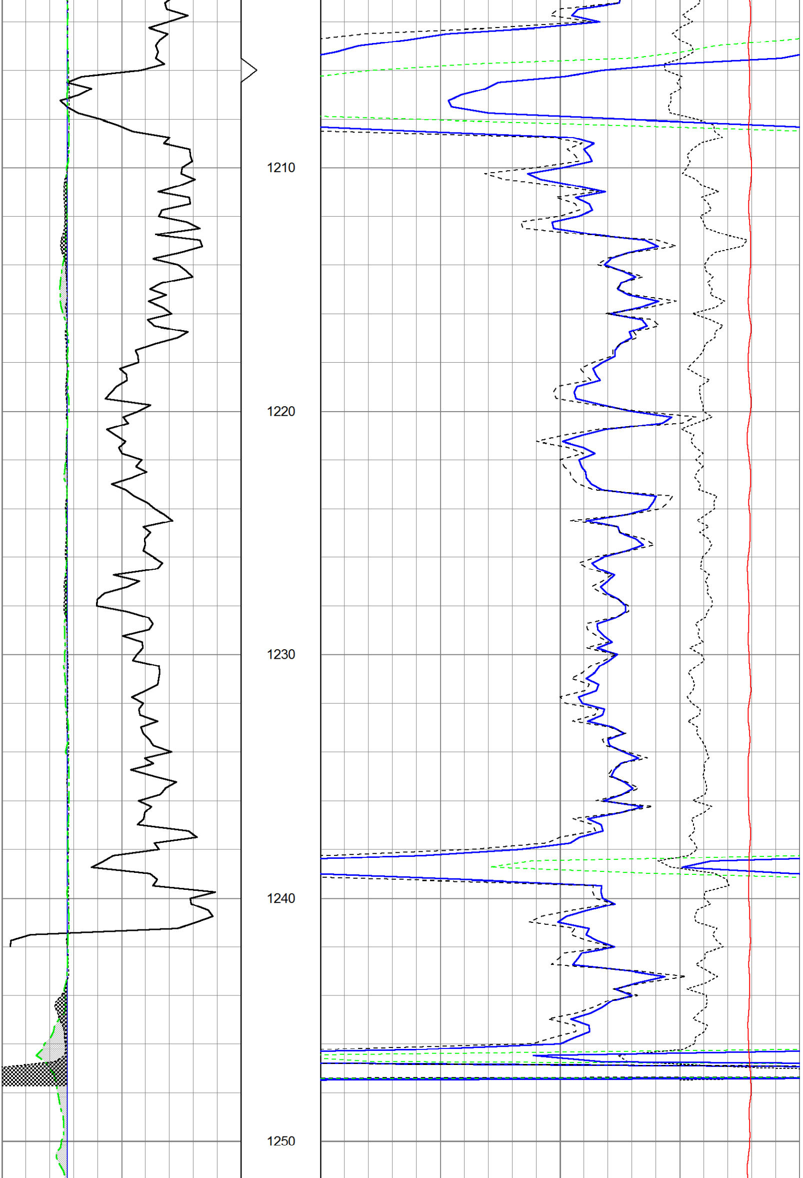
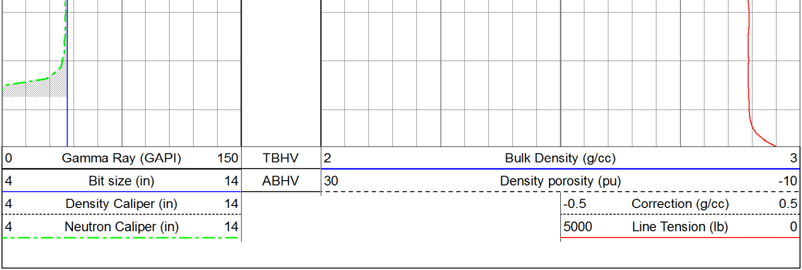
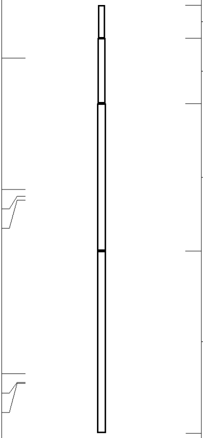










Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			CableHead Isulation Sub	1.42	3.00	20.00
GR	16.06		Gamma-Oilex3006 (3006) Gamma Ray Section	2.81	3.50	75.00
LSD DCAL SSD	10.44 10.15 9.98		Density-Oilex3006 (280) Density Section	6.29	4.00	200.00
SCAL SWN NEU	2.54 2.17 2.13		Neutron-Sidewall3015 (3015) Sidewall Neutron Section	7.81	4.00	150.00

Dataset: ow2-7359 layne energy.db: field/well/CDL/pass1
Total Length: 18.33 ft
Total Weight: 445.00 lb
O.D. 4.00 in