HIGH RESOLUTION COMPENSATED DENSITY SIDEWALL NEUTRON LOG

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

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Well	SHULTZ # 4N-2		
Field	LAFONTAINE		
County	MONTGOMERY	State	KANSAS

Location: API # : 15-125-32058-0000

SW SW NW NW
1149' FNL & 325' FWL

SEC 2 TWP 31S RGE 14E

Other Services
DIL

Permanent Datum	GL	Elevation	920' est
Log Measured From	GL		
Drilling Measured From	GL		

Elevation
K.B. ----
D.F. ----
G.L. 920' est

Date	4-05-2011		
Run Number	ONE		
Depth Driller	1287'		
Depth Logger	1281'		
Bottom Logged Interval	1279'		
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 # OW2-7360
MATRIX SANDSTONE 2.68 g/cc
ABHV COMPUTED WITH 4.5" CASING

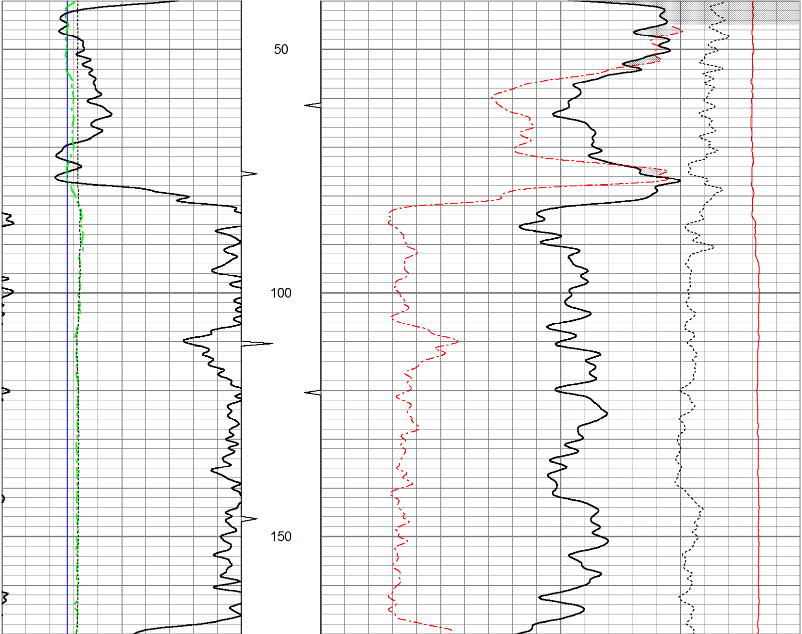
CREW : JOHNSON

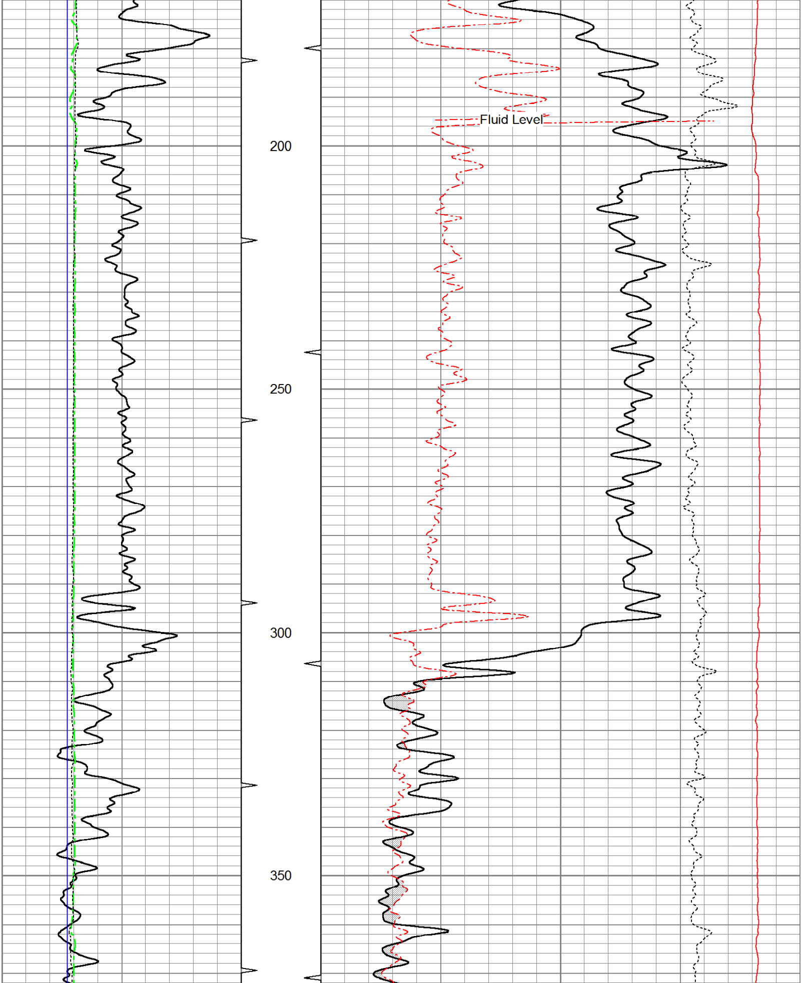
OSAGE WIRELINE

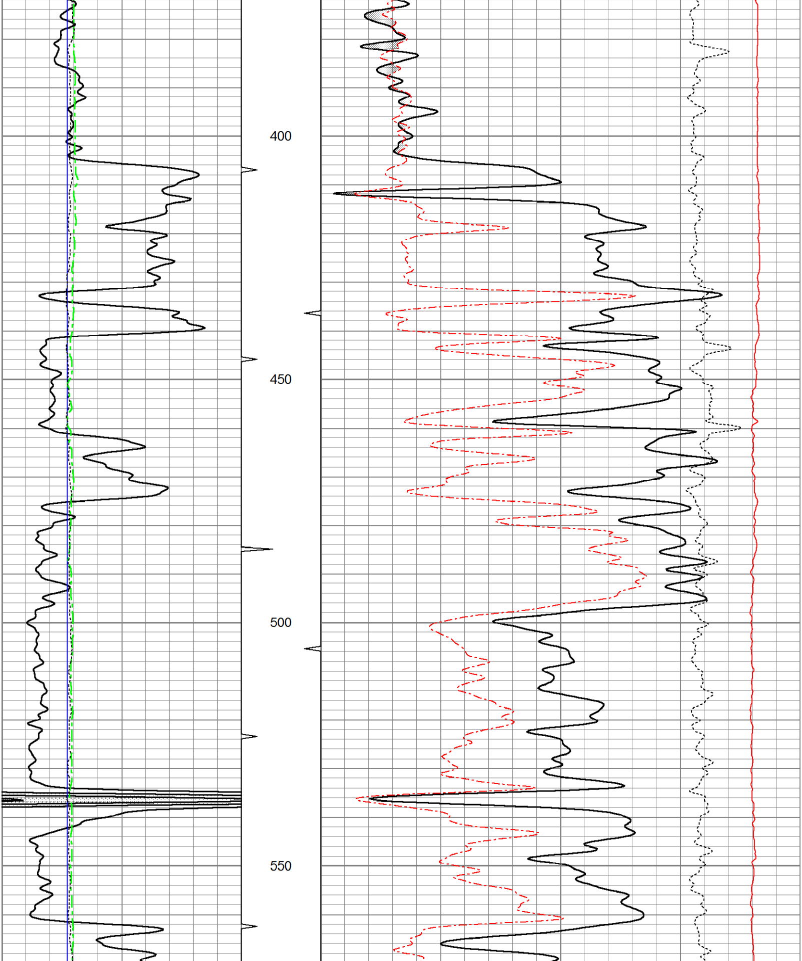
5" CDL/SWN SECTION

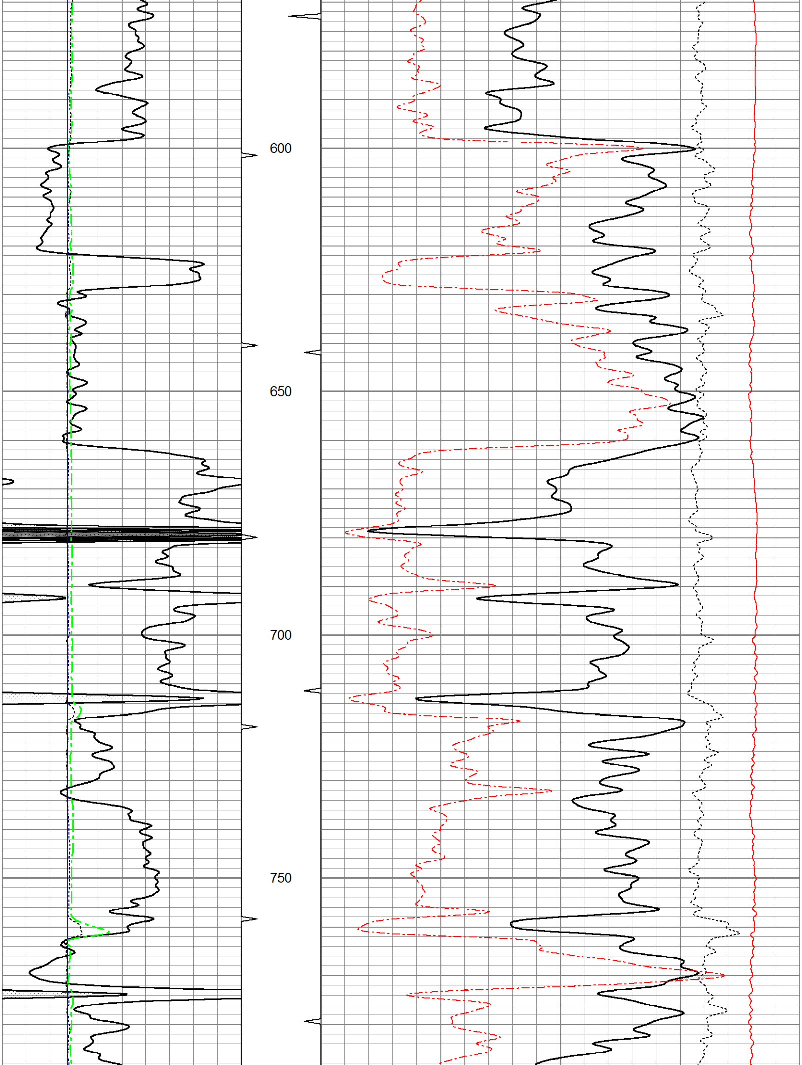
Database File:	ow2-7360 layne energy.db
Dataset Pathname:	CDL/pass1.5
Presentation Format:	_neu4
Dataset Creation:	Tue Apr 05 09:32:44 2011 by Calc Open-Cased 110302
Charted by:	Depth in Feet scaled 1:240

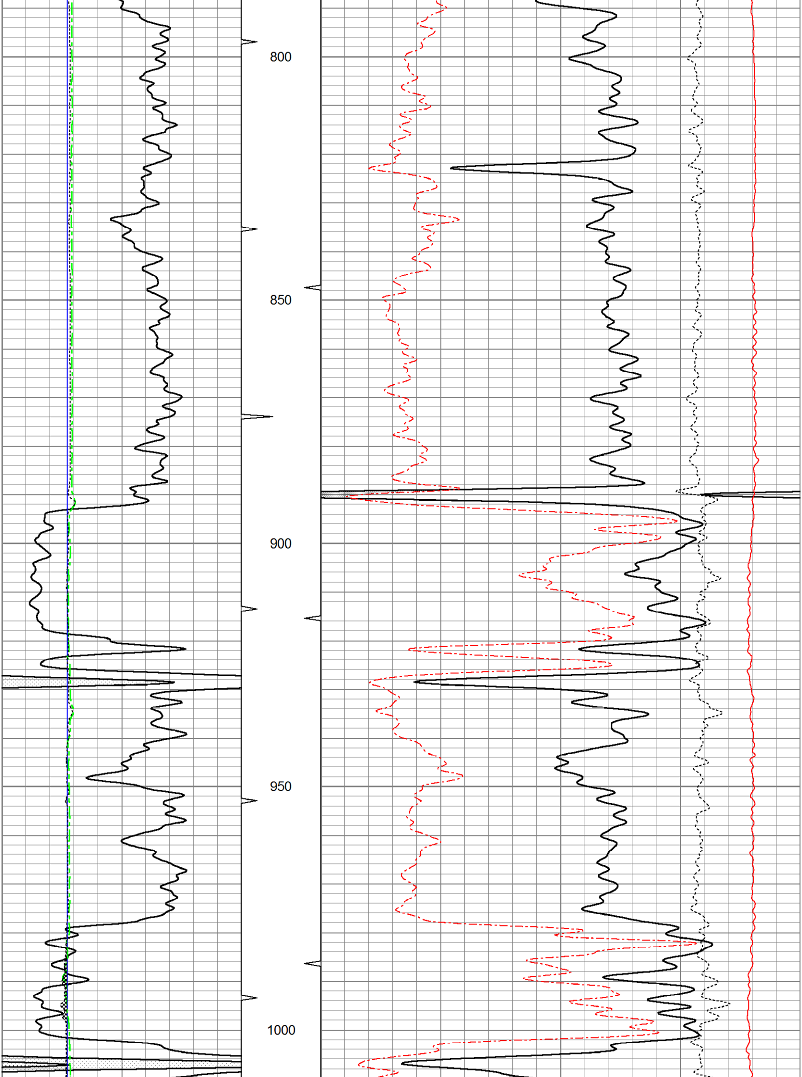
0	Gamma Ray (GAPI)	150	TBHV	30	Density Porosity (pu)	-10
4	Bit size (in)	14	ABHV	30	Neutron Porosity (pu)	-10
4	Neutron Caliper (in)	14		-0.5	Correction (g/cc)	0.5
4	Density Caliper (in)	14		5000	Line Tension (lb)	0

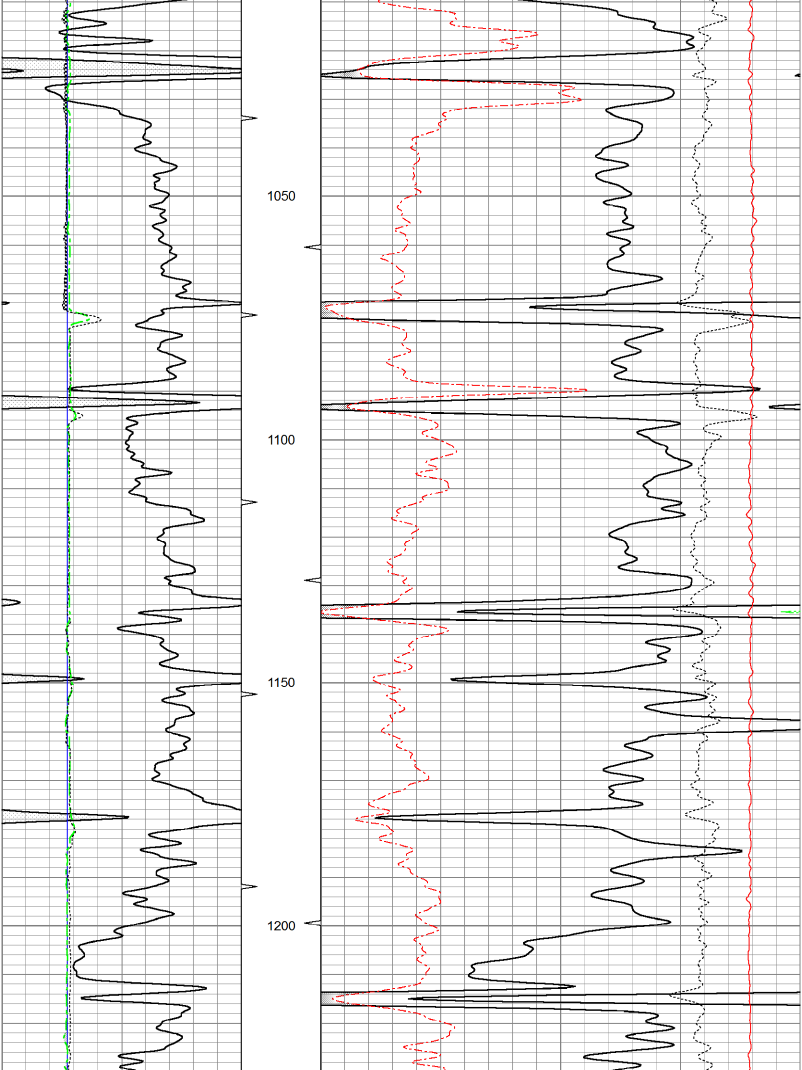


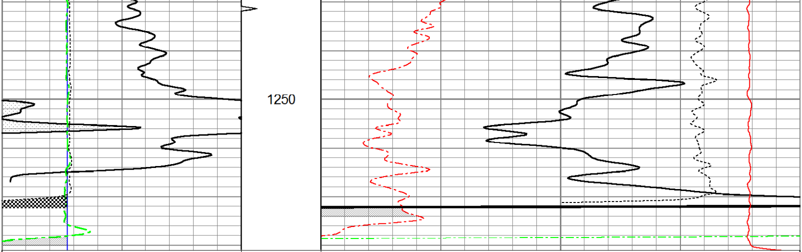










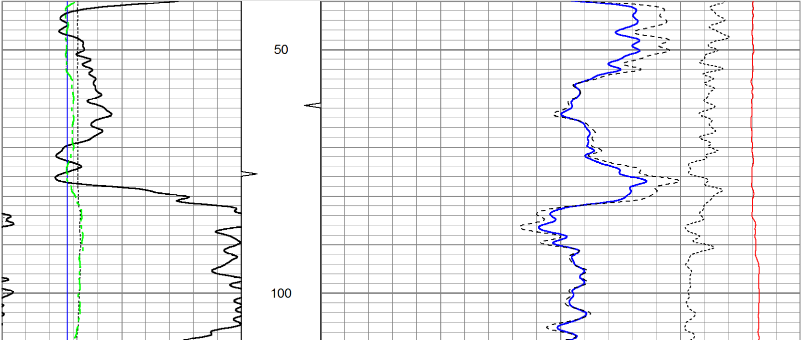


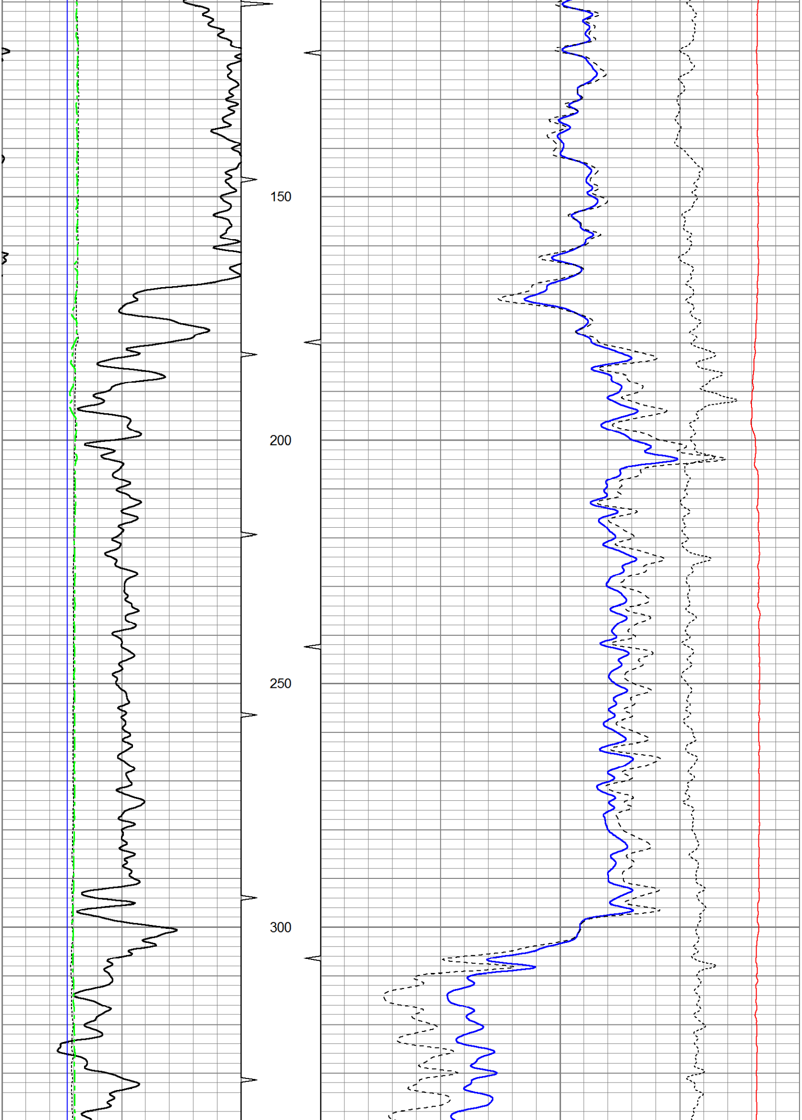
0	Gamma Ray (GAPI)	150	TBHV	30	Density Porosity (pu)	-10
4	Bit size (in)	14	ABHV	30	Neutron Porosity (pu)	-10
4	Neutron Caliper (in)	14		-0.5	Correction (g/cc)	0.5
4	Density Caliper (in)	14		5000	Line Tension (lb)	0

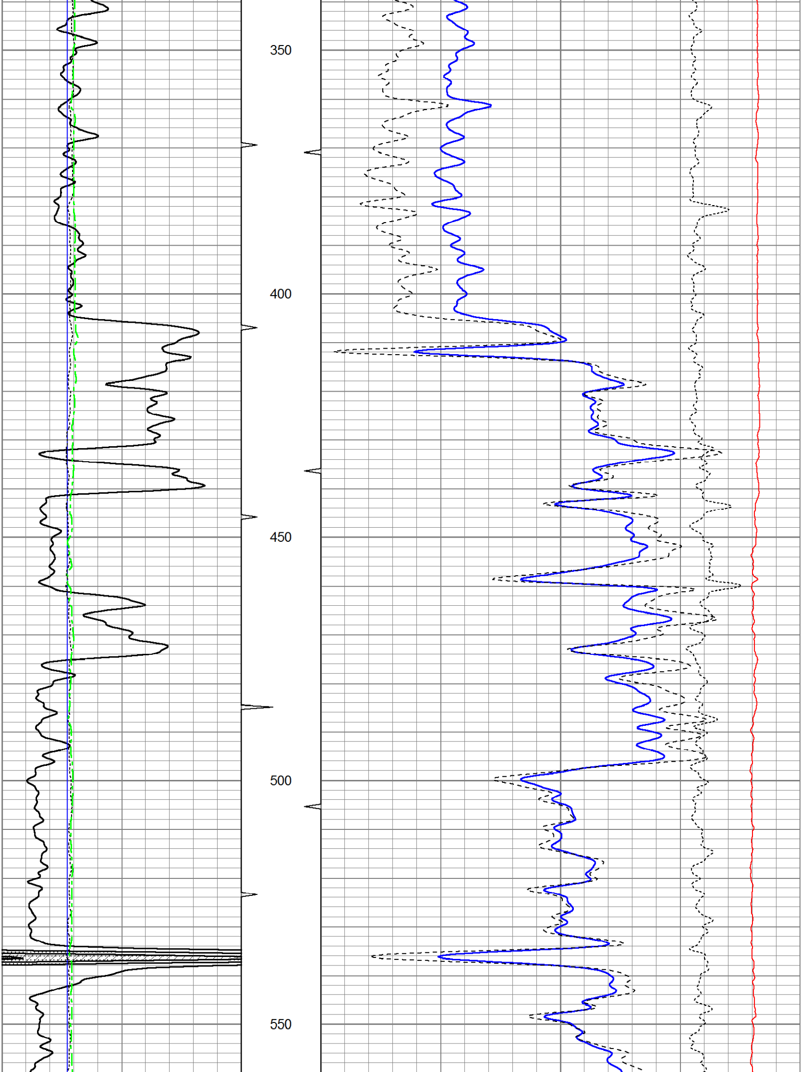
5" CDL SECTION

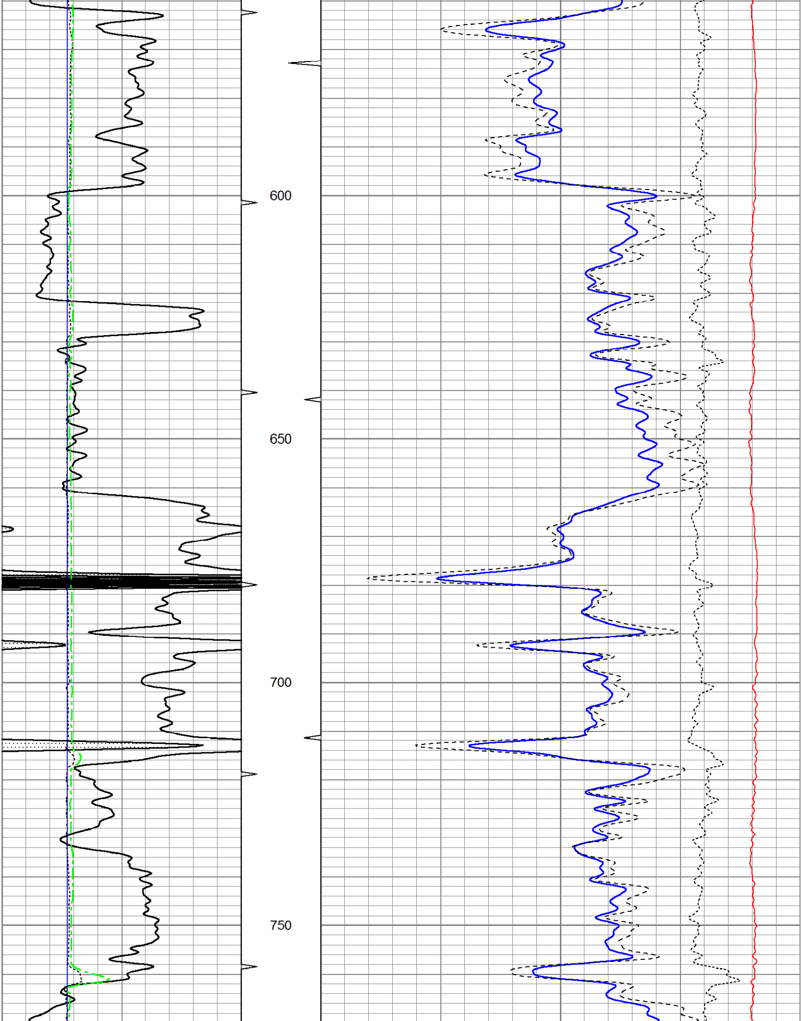
Database File:	ow2-7360 layne energy.db
Dataset Pathname:	CDL/pass1.4
Presentation Format:	bulk4
Dataset Creation:	Tue Apr 05 09:32:27 2011 by Calc Open-Cased 110302
Charted by:	Depth in Feet scaled 1:240

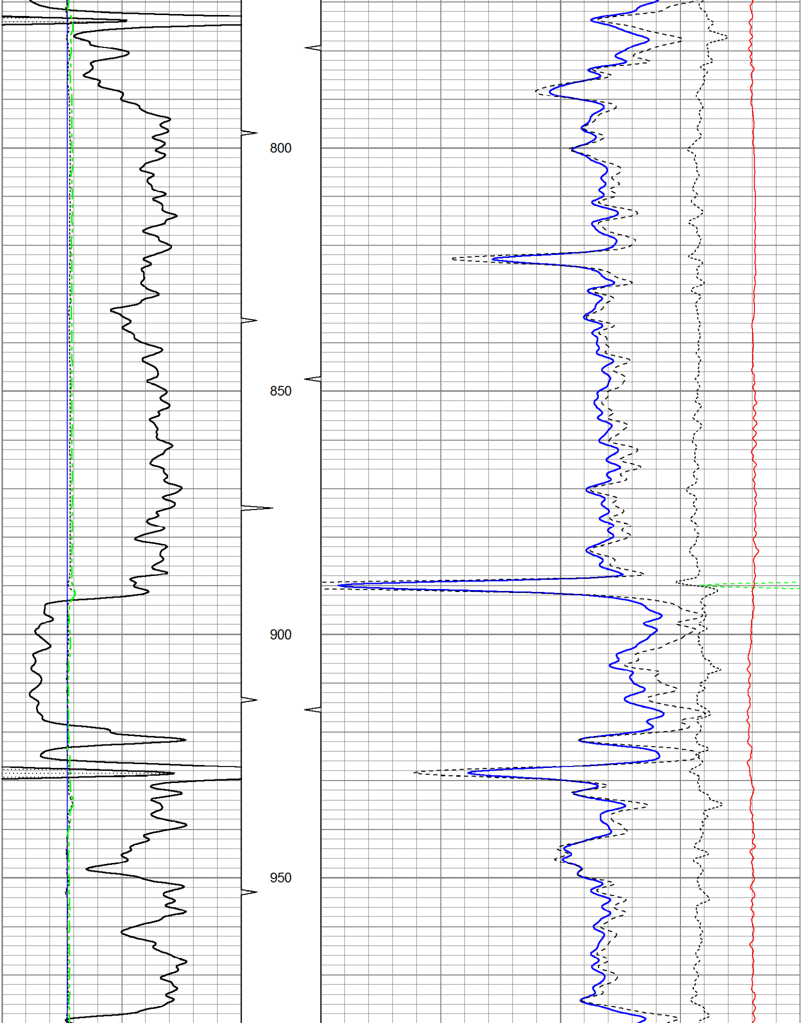
0	Gamma Ray (GAPI)	150	TBHV	2	Bulk Density (g/cc)	3
4	Bit size (in)	14	ABHV	30	Density porosity (pu)	-10
4	Density Caliper (in)	14		-0.5	Correction (g/cc)	0.5
4	Neutron Caliper (in)	14		5000	Line Tension (lb)	0

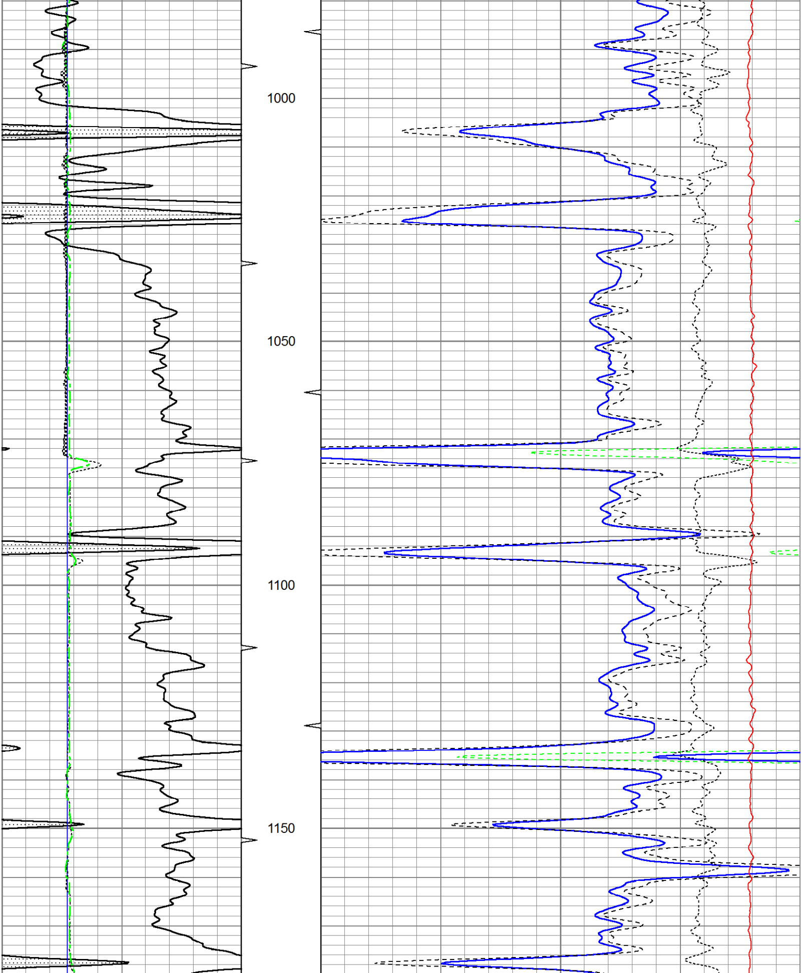


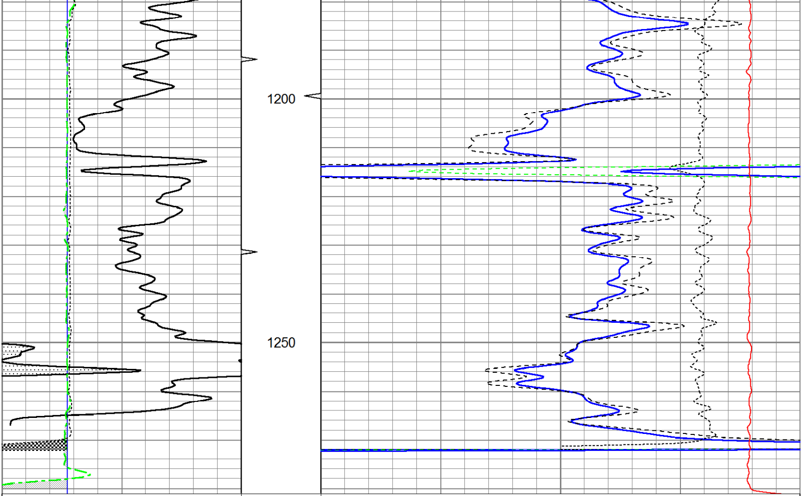










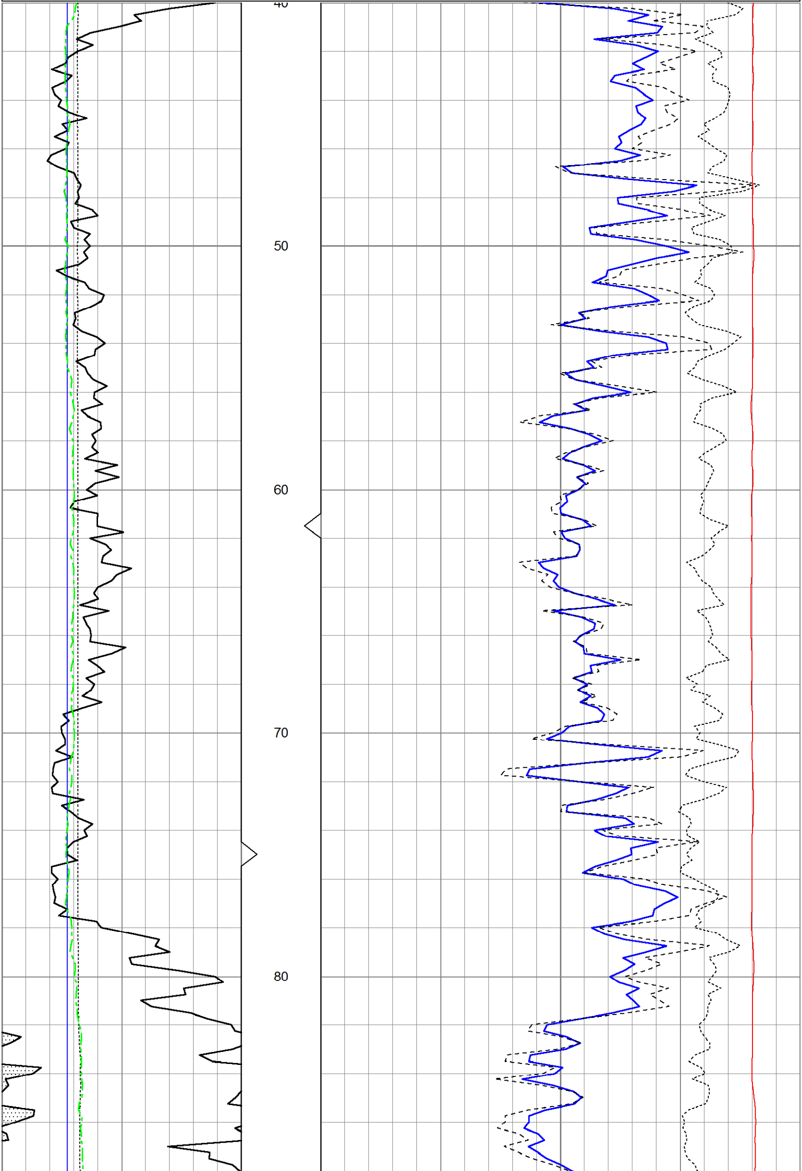


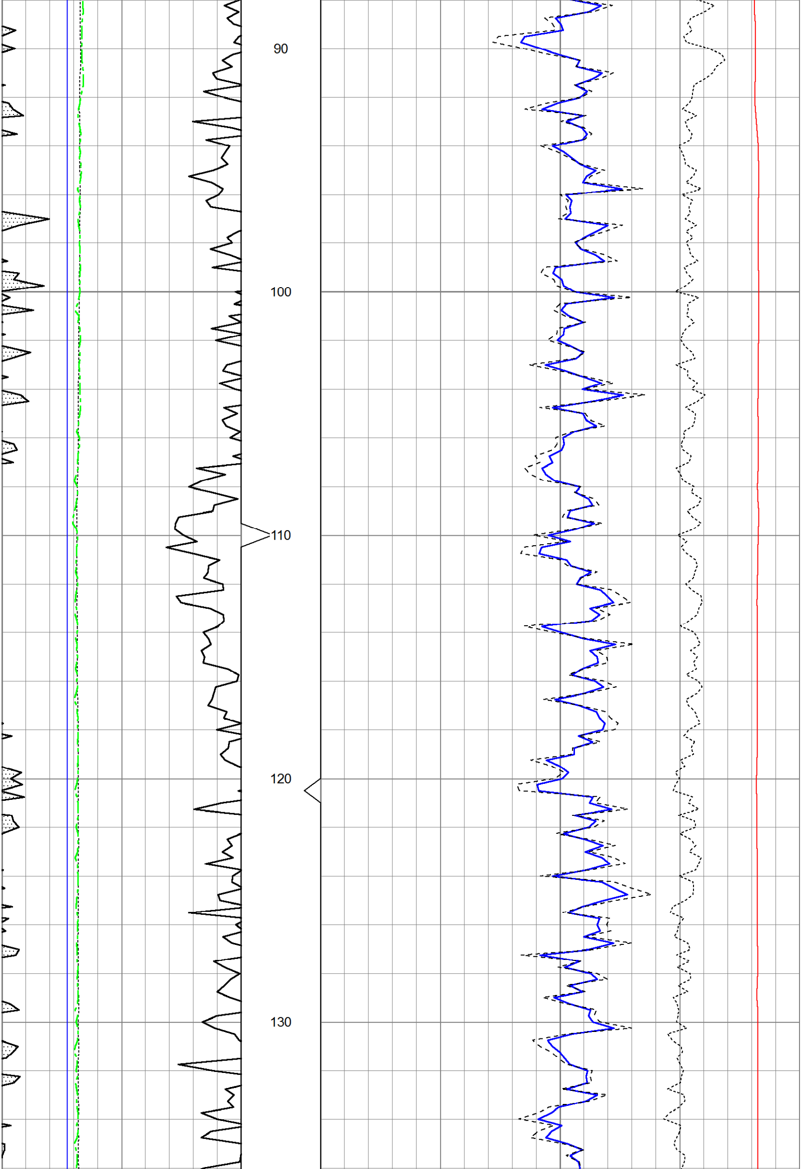
0	Gamma Ray (GAPI)	150	TBHV	2	Bulk Density (g/cc)	3
4	Bit size (in)	14	ABHV	30	Density porosity (pu)	-10
4	Density Caliper (in)	14		-0.5	Correction (g/cc)	0.5
4	Neutron Caliper (in)	14		5000	Line Tension (lb)	0

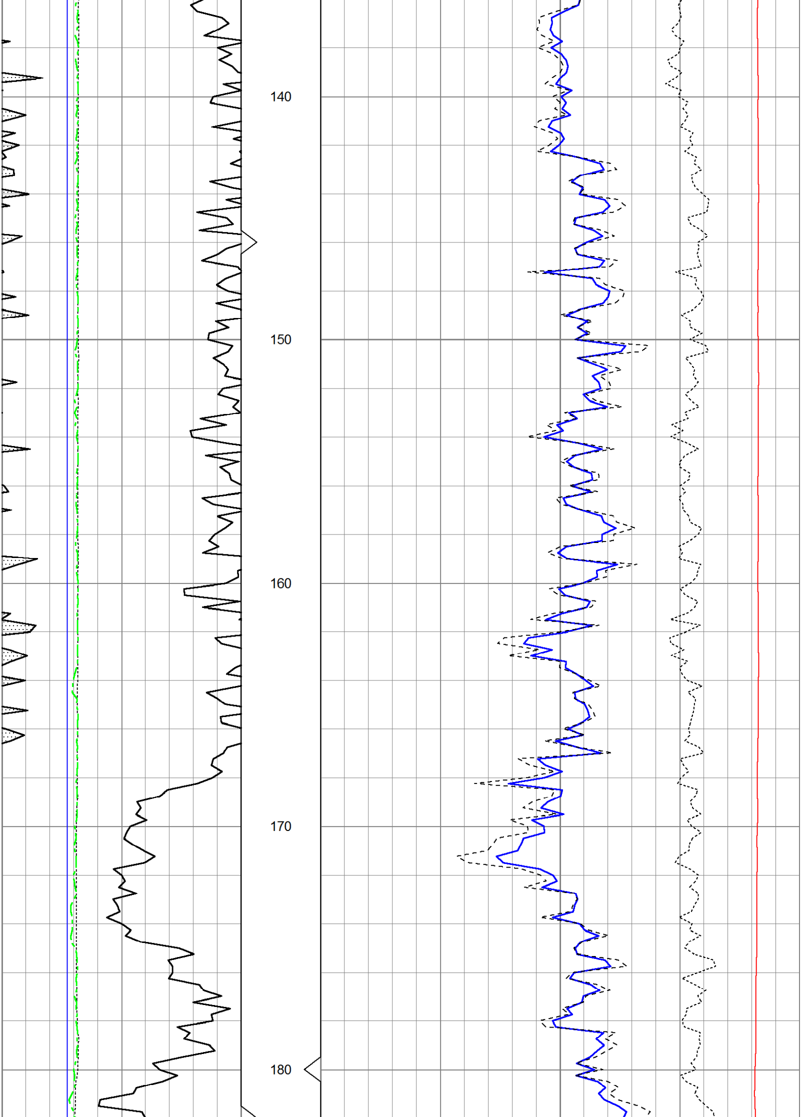
25" HR CDL SECTION

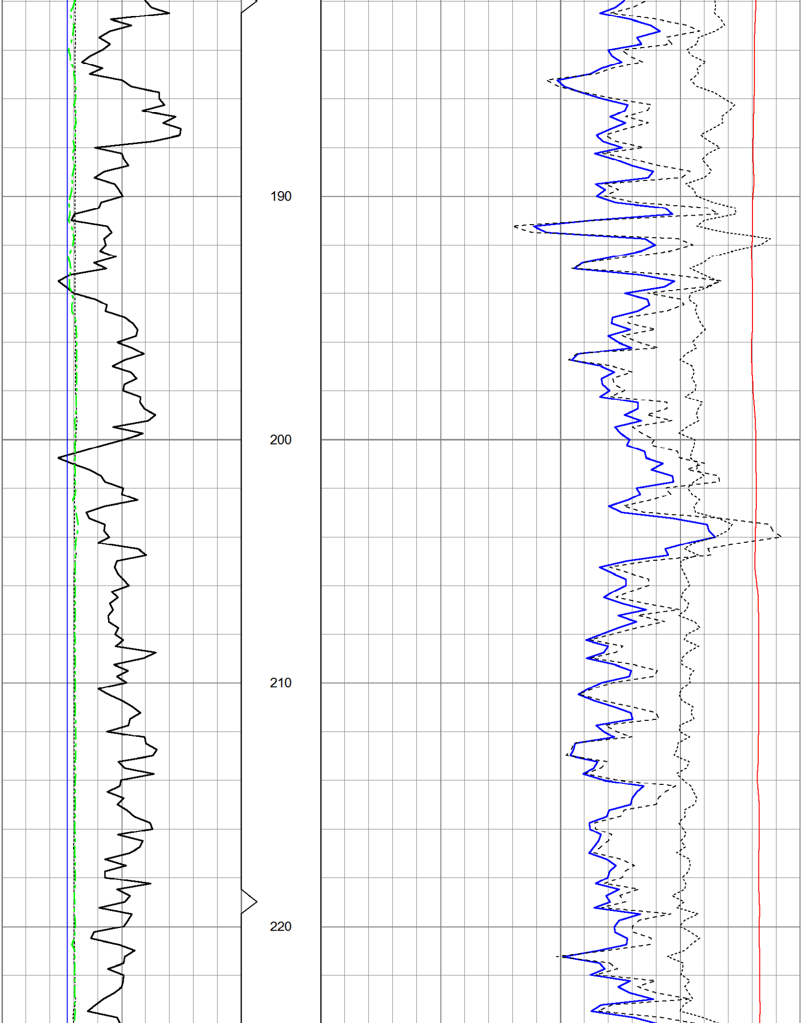
Database File:	ow2-7360 layne energy.db
Dataset Pathname:	CDL/pass1.6
Presentation Format:	bulk4hr
Dataset Creation:	Tue Apr 05 09:33:00 2011 by Calc Open-Cased 110302
Charted by:	Depth in Feet scaled 1:48

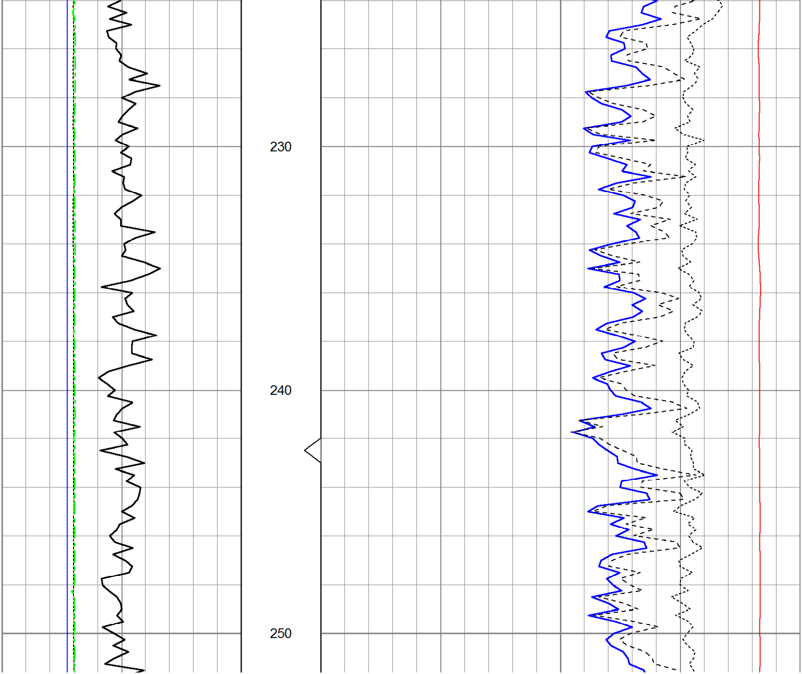
0	Gamma Ray (GAPI)	150	TBHV	2	Bulk Density (g/cc)	3
4	Bit size (in)	14	ABHV	30	Density porosity (pu)	-10
4	Density Caliper (in)	14		-0.5	Correction (g/cc)	0.5
4	Neutron Caliper (in)	14		5000	Line Tension (lb)	0

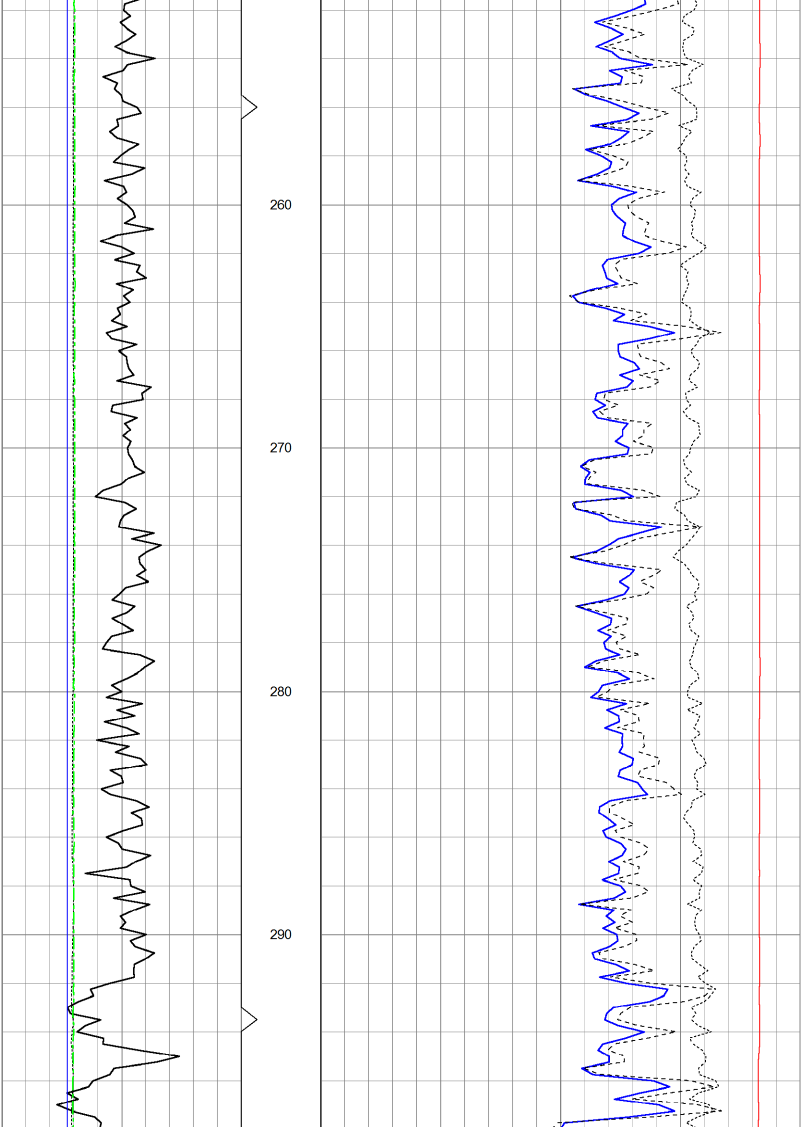








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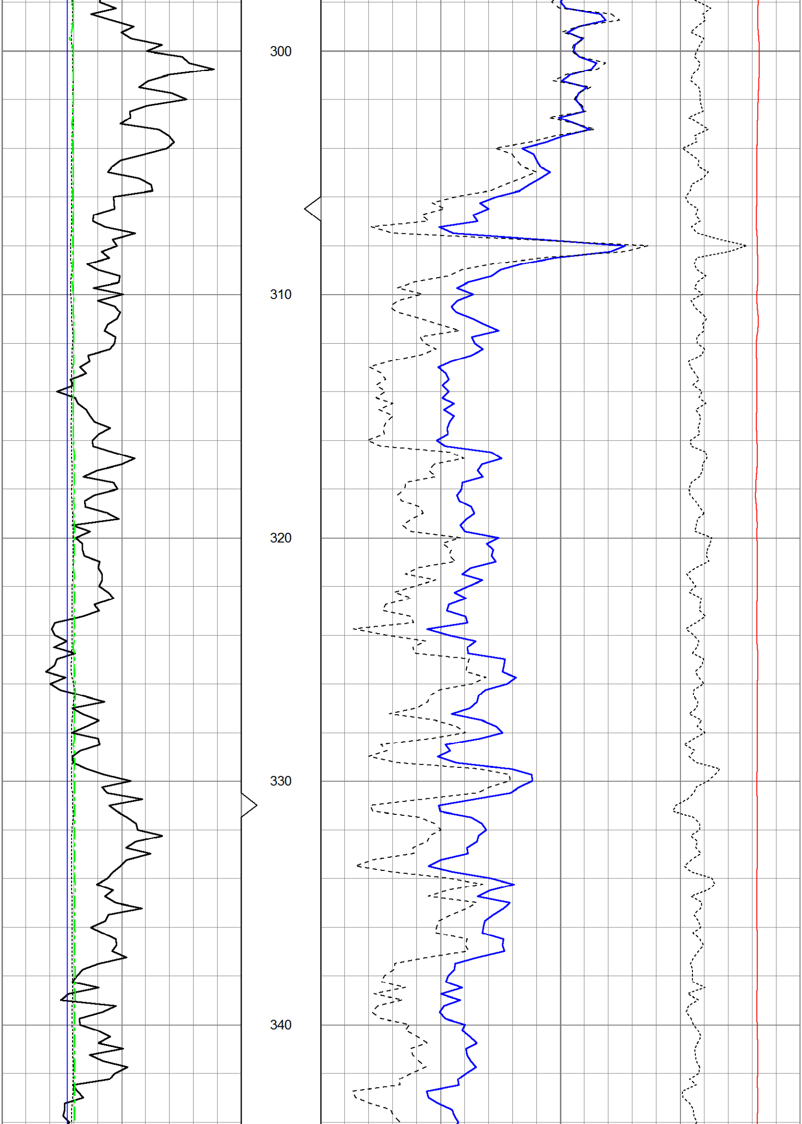
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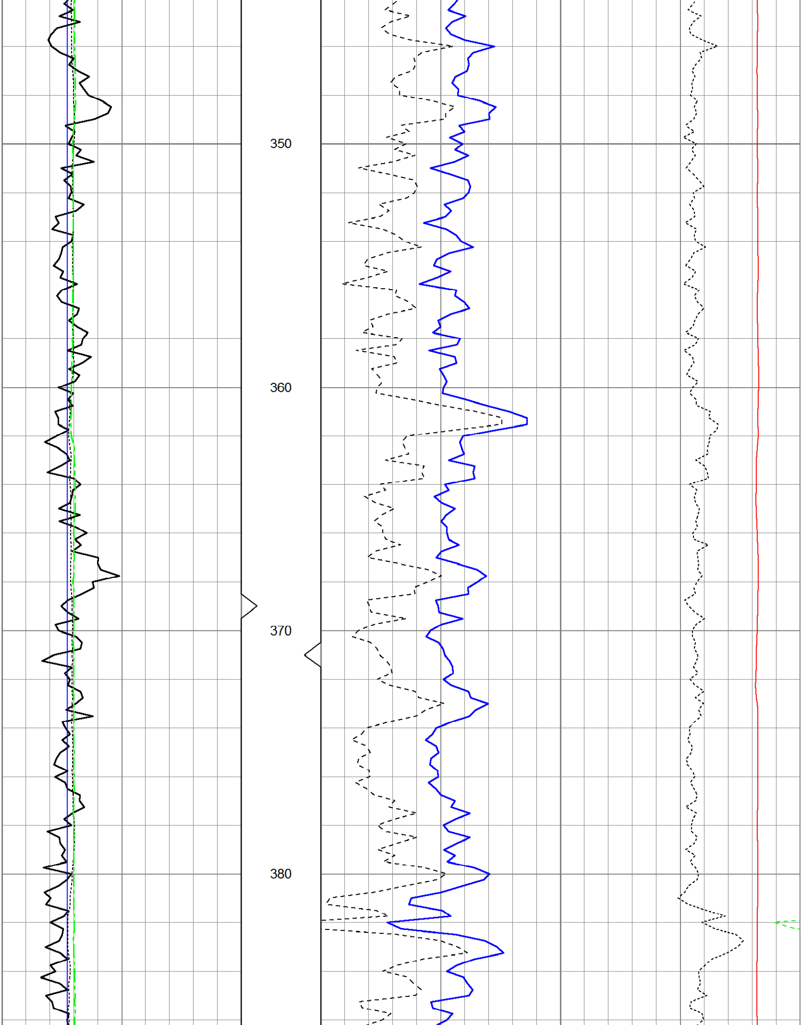
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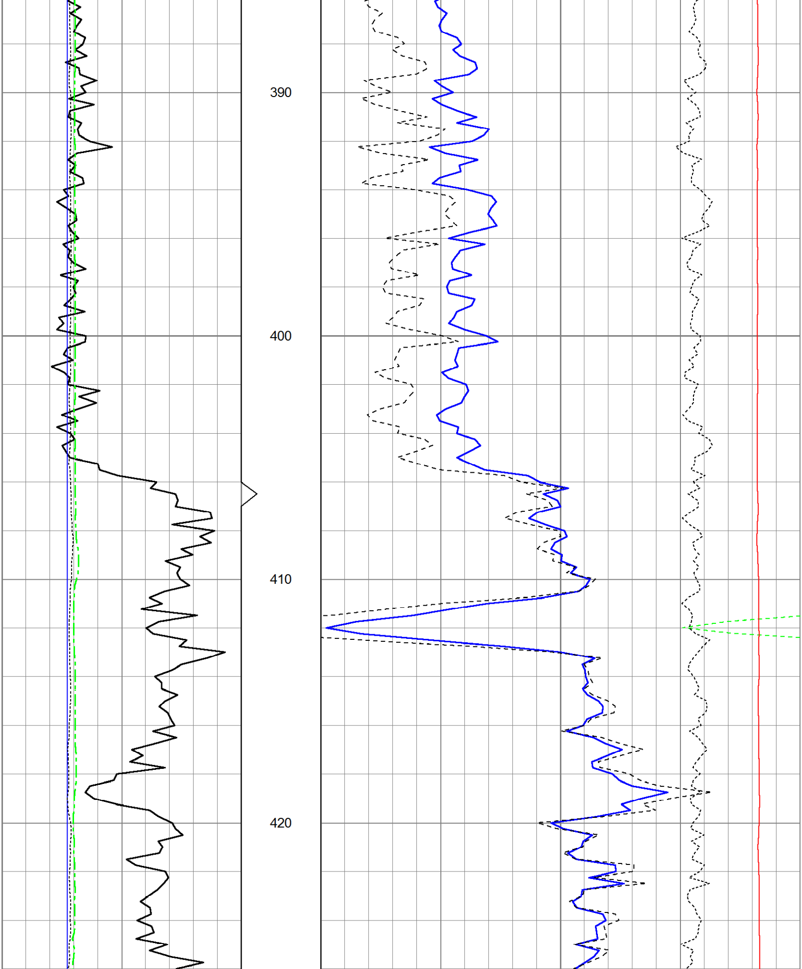
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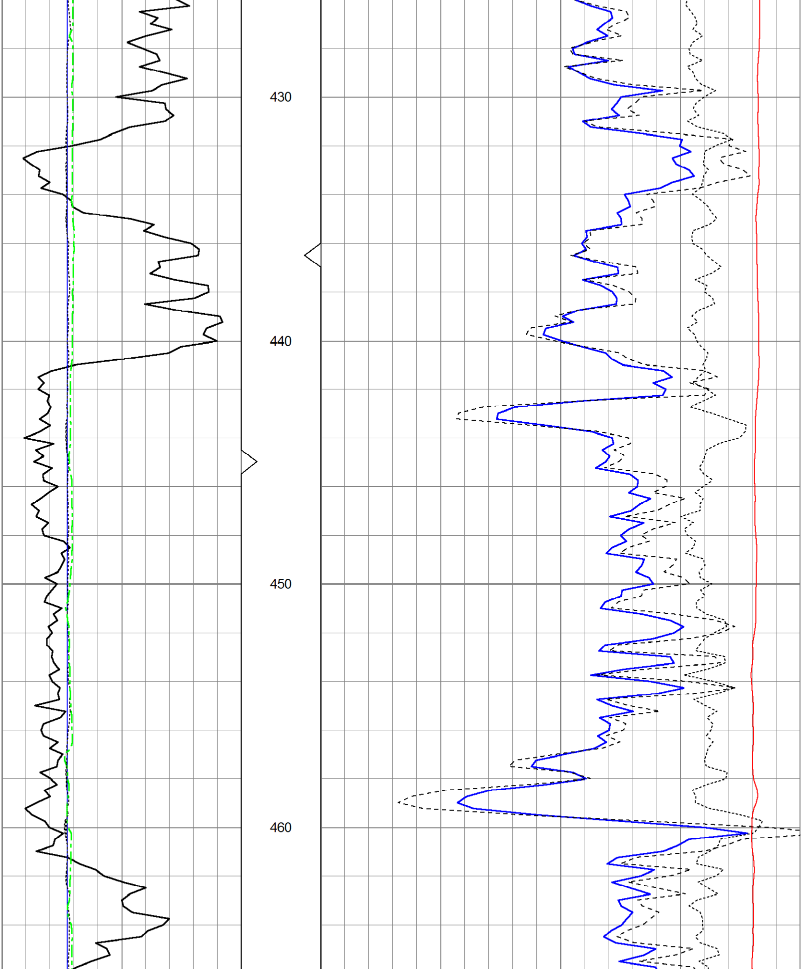
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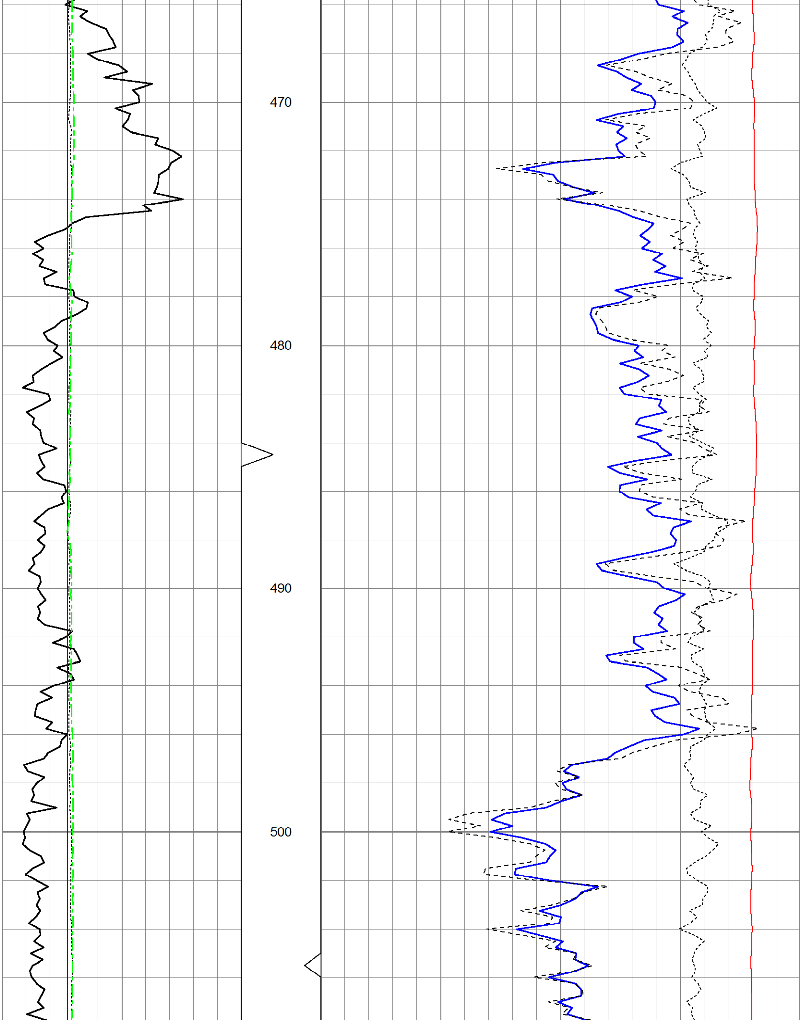
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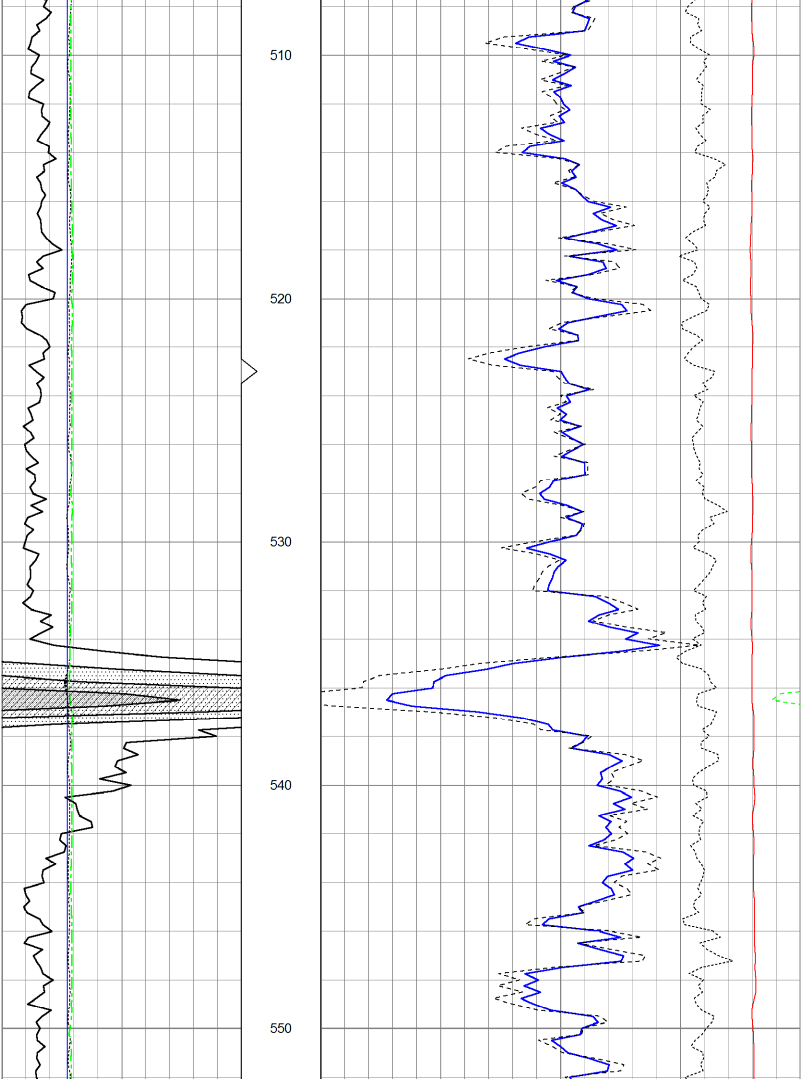
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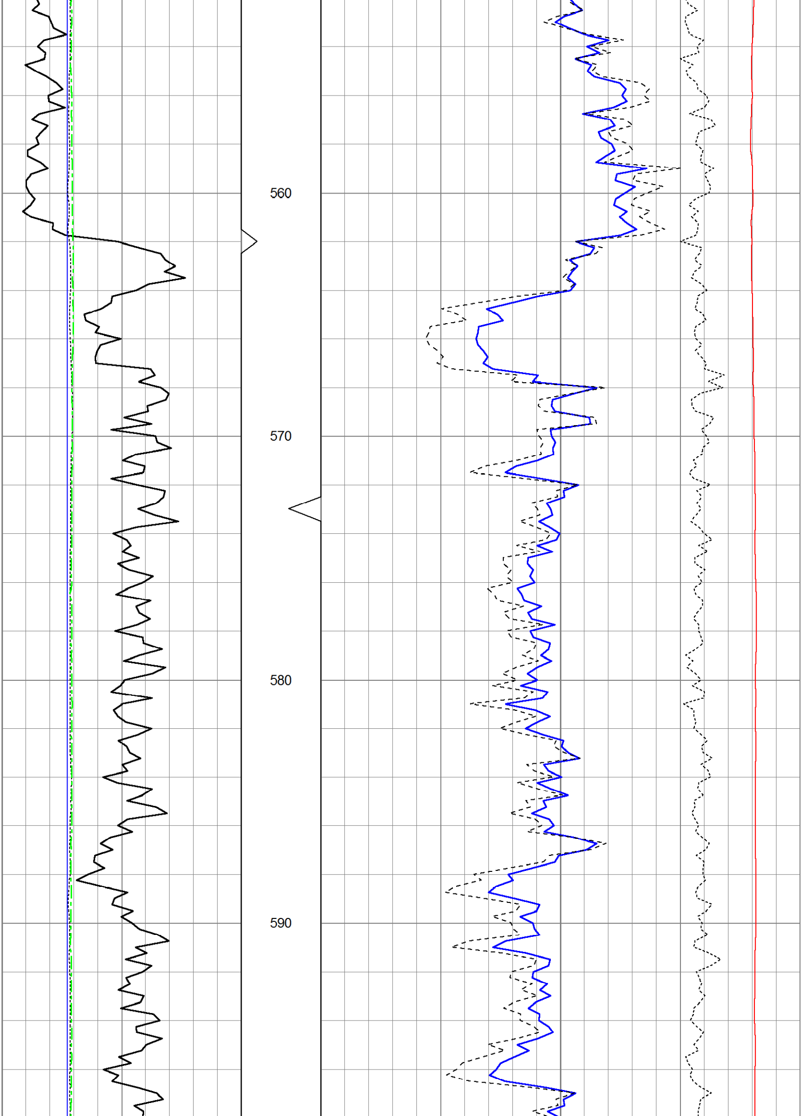
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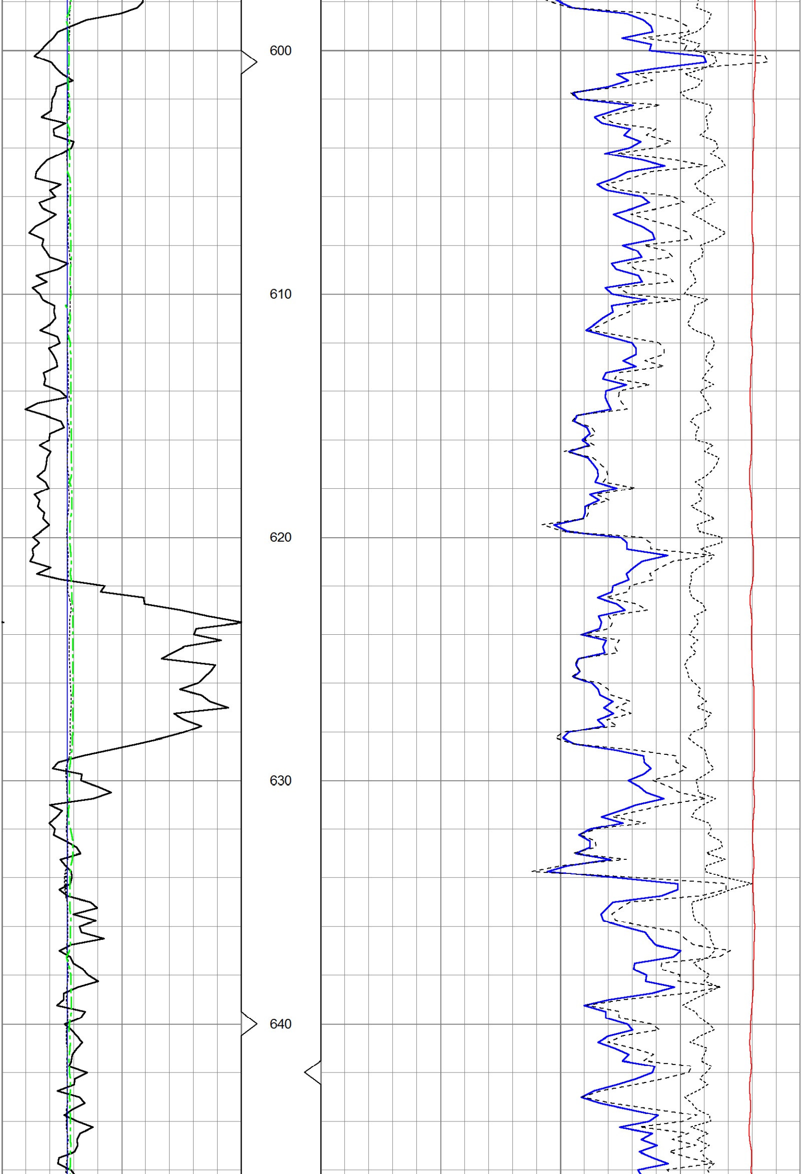
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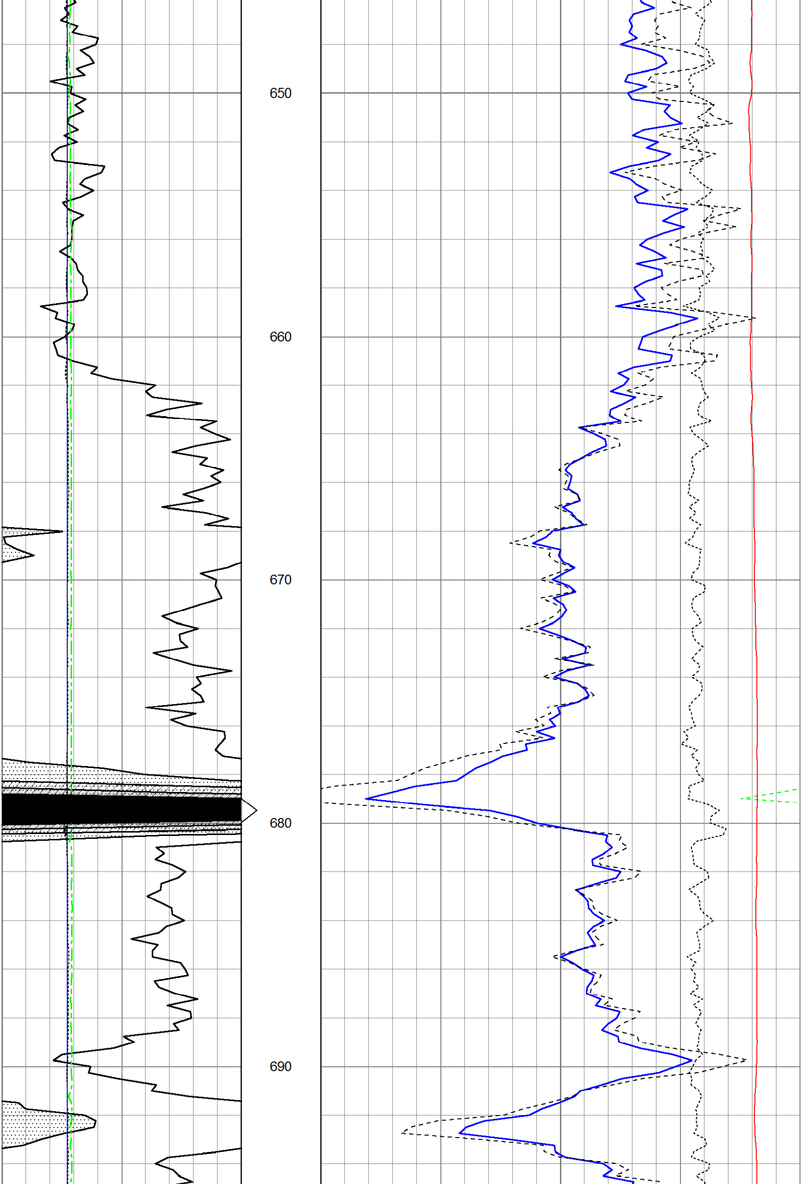
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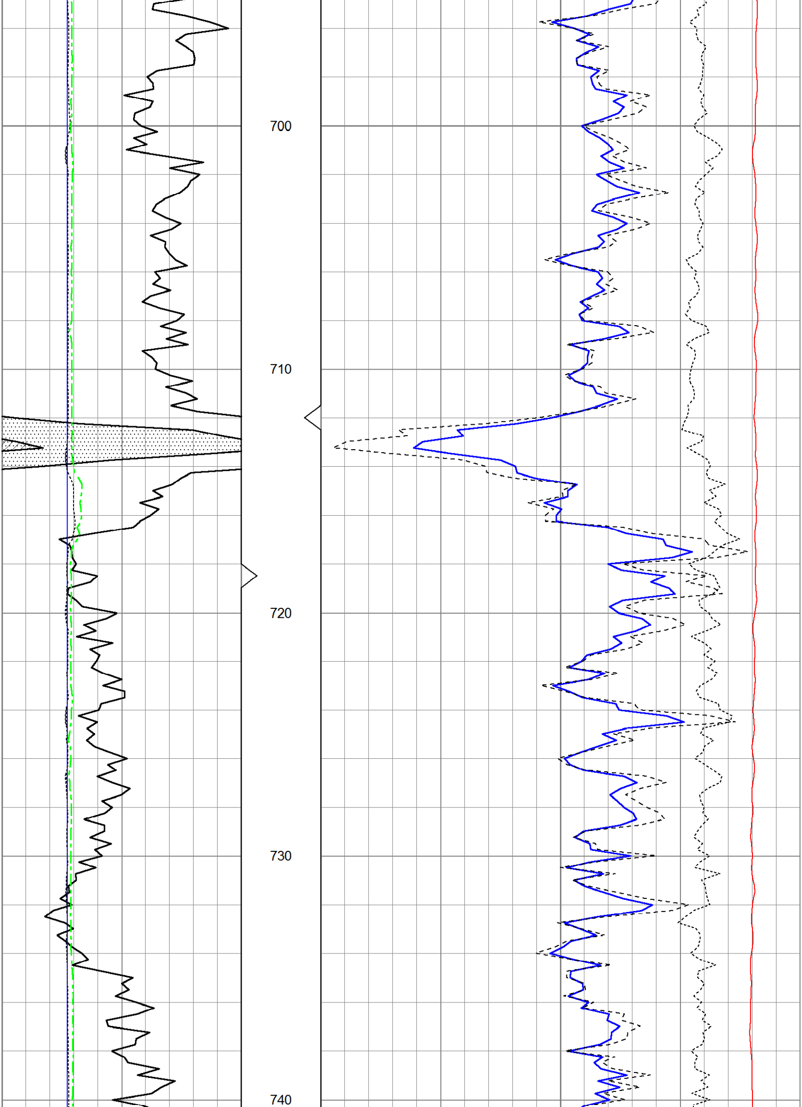
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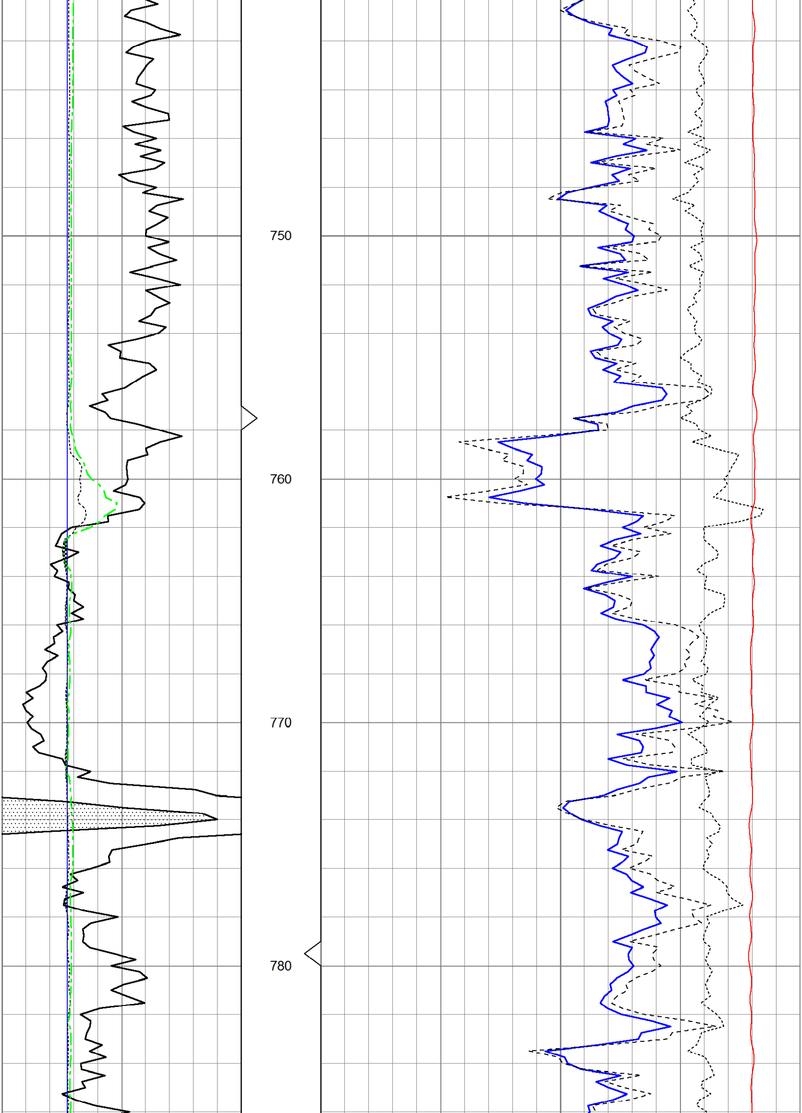
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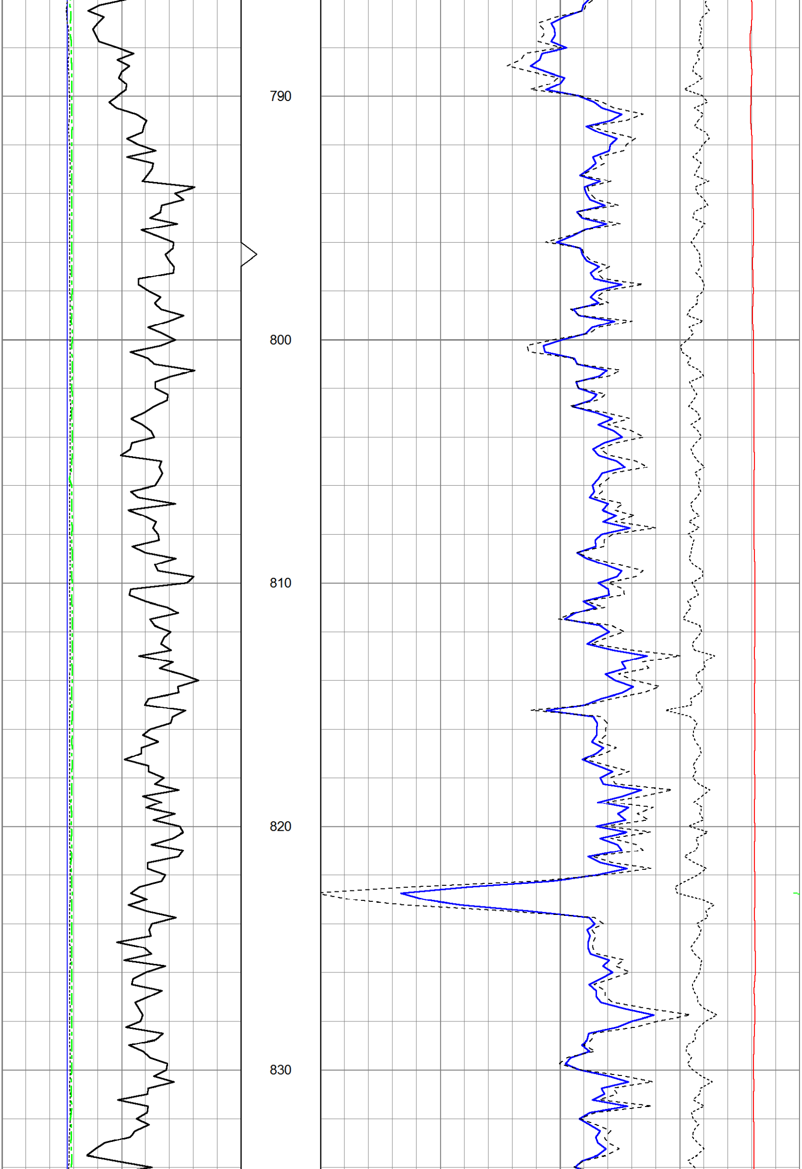
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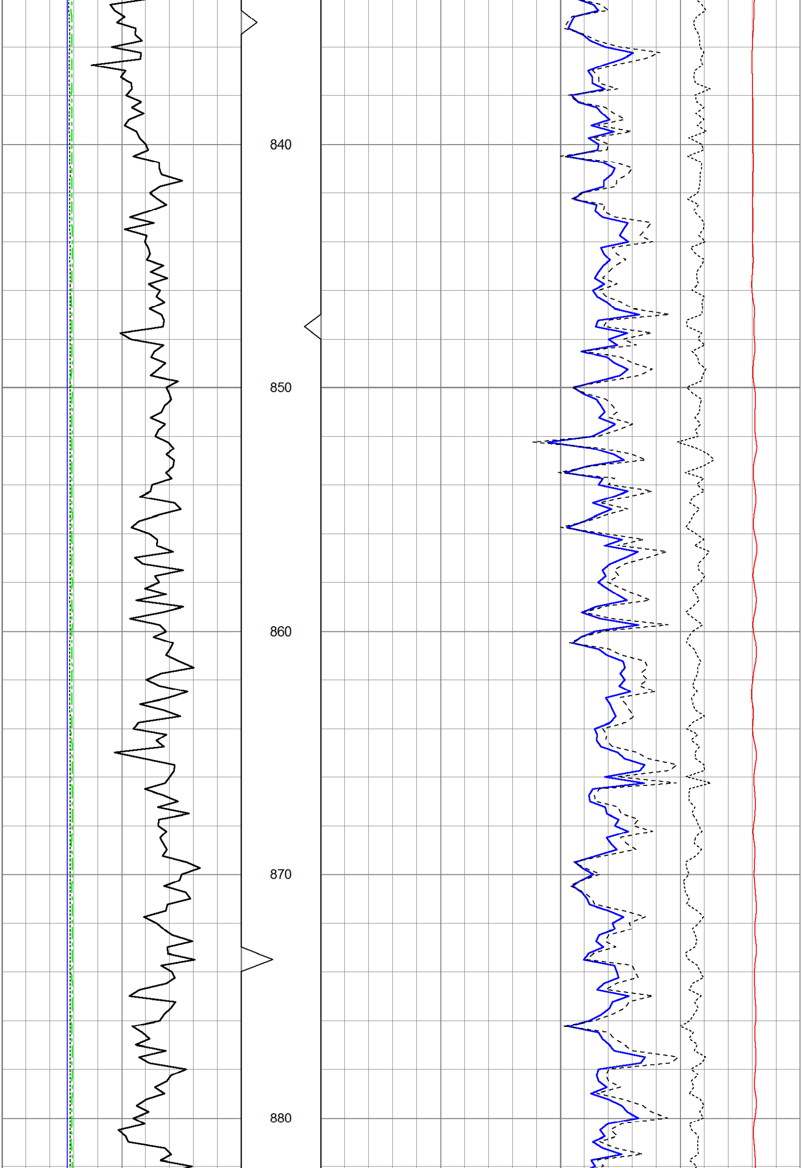
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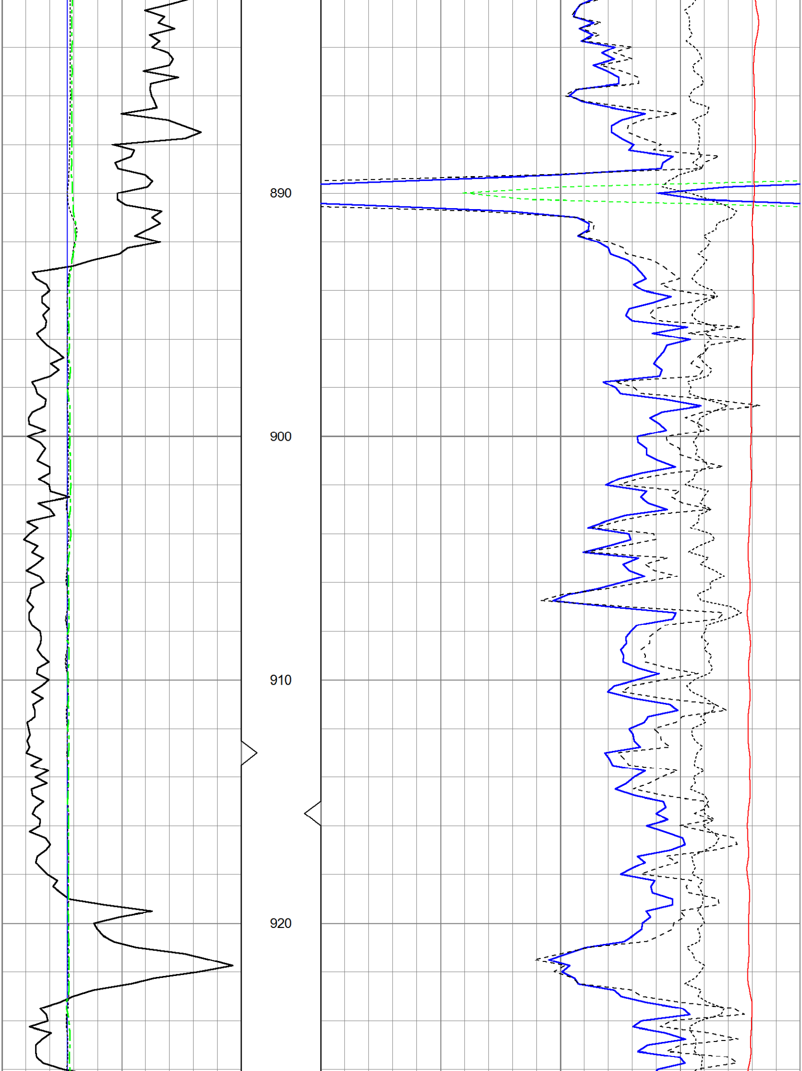
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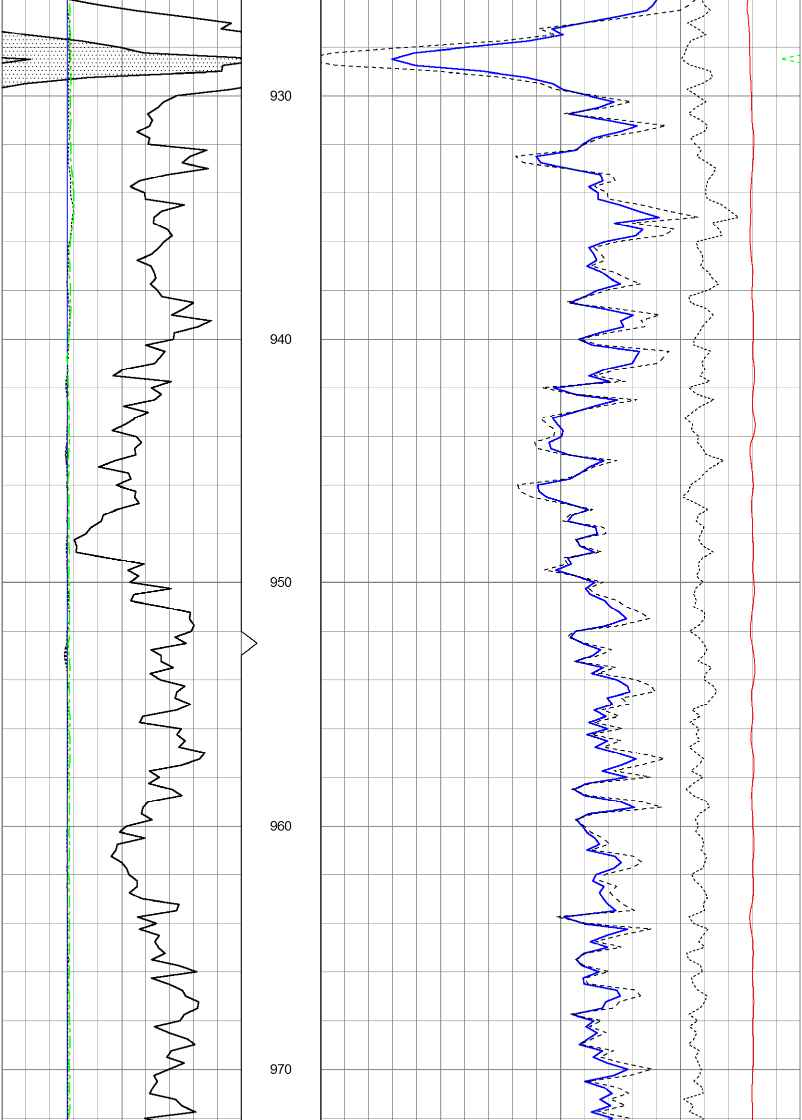
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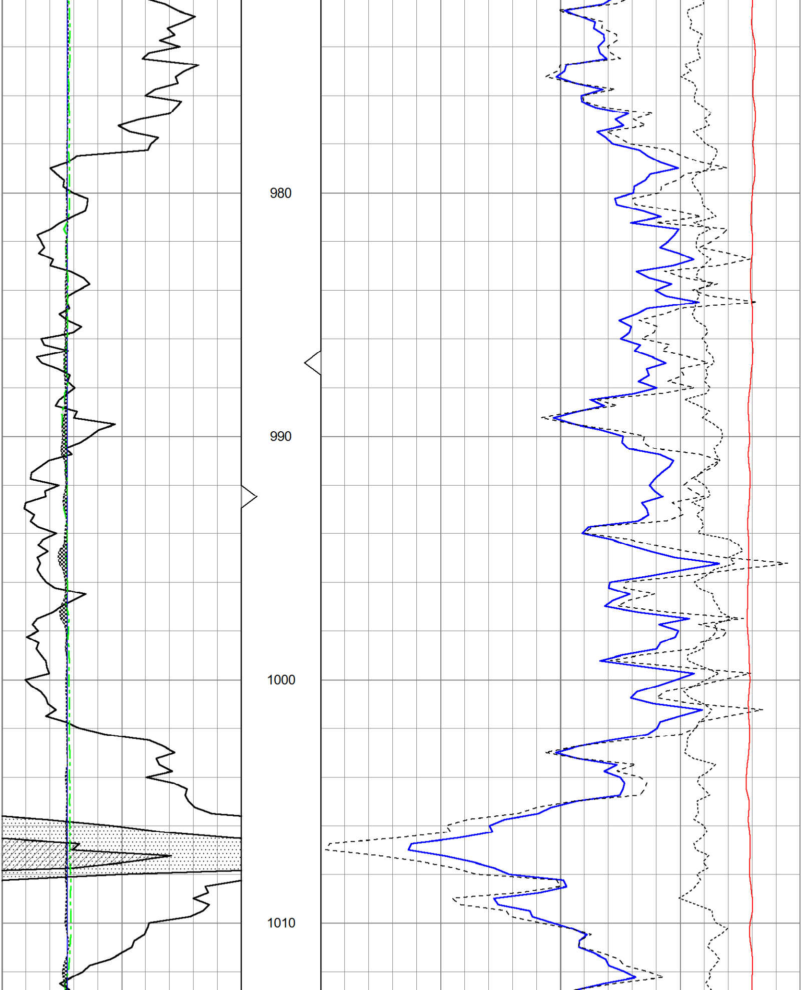
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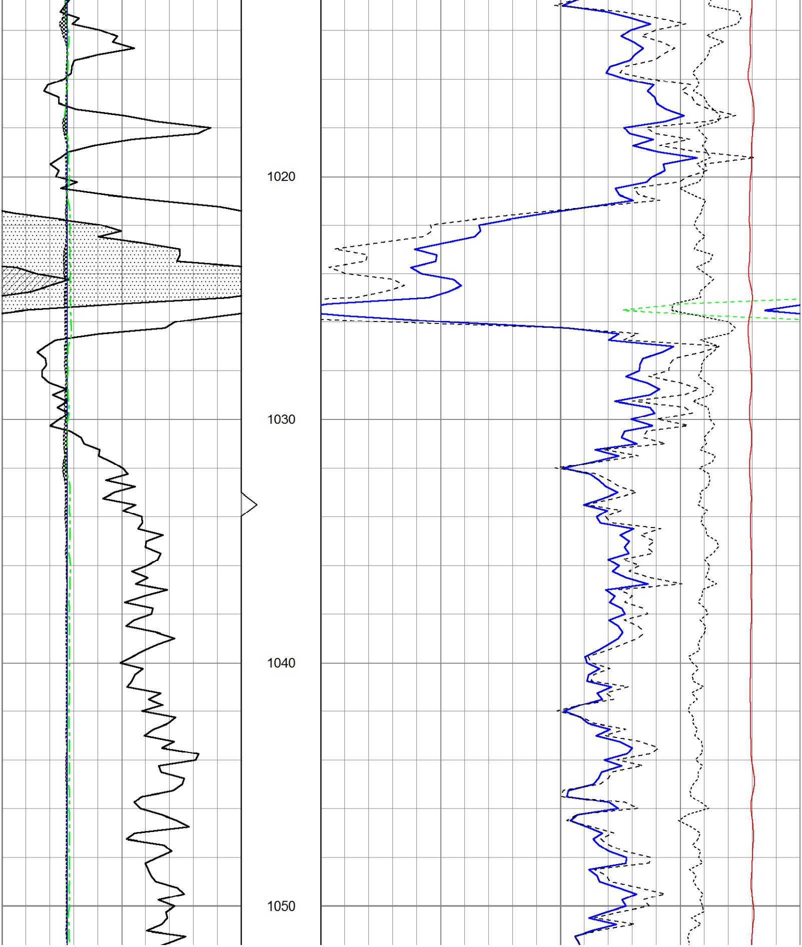
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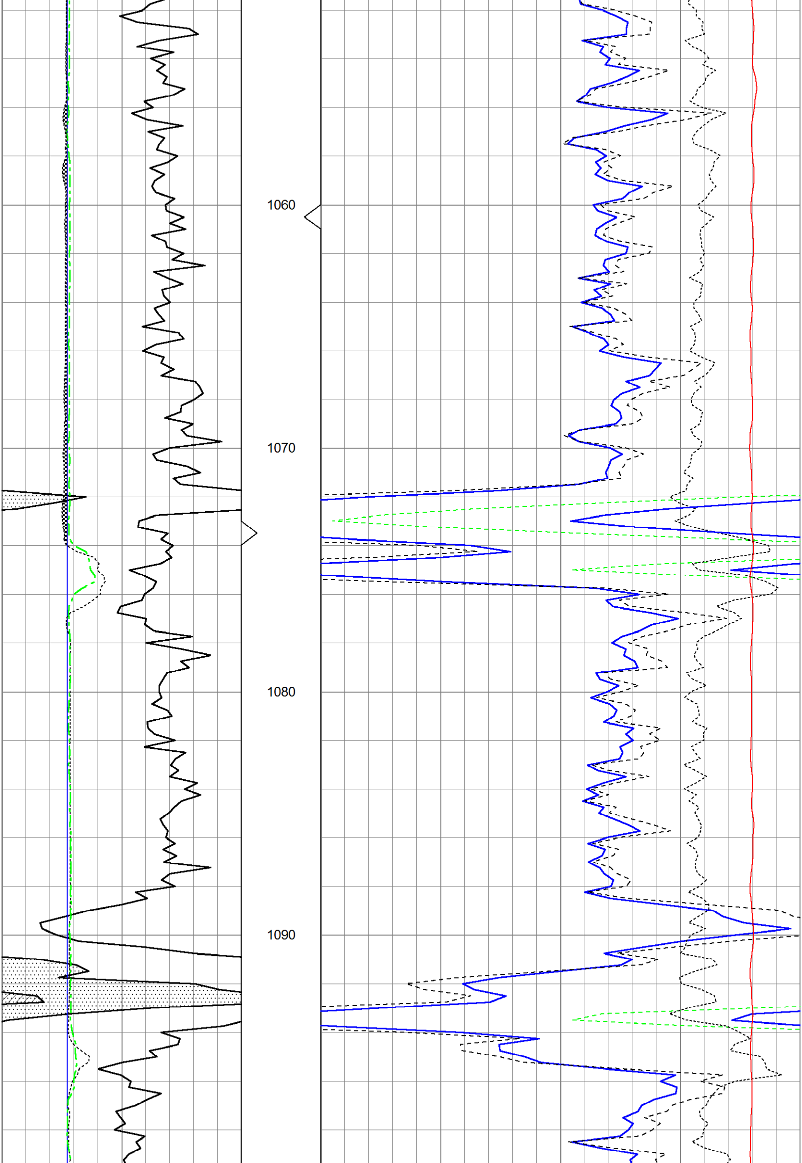

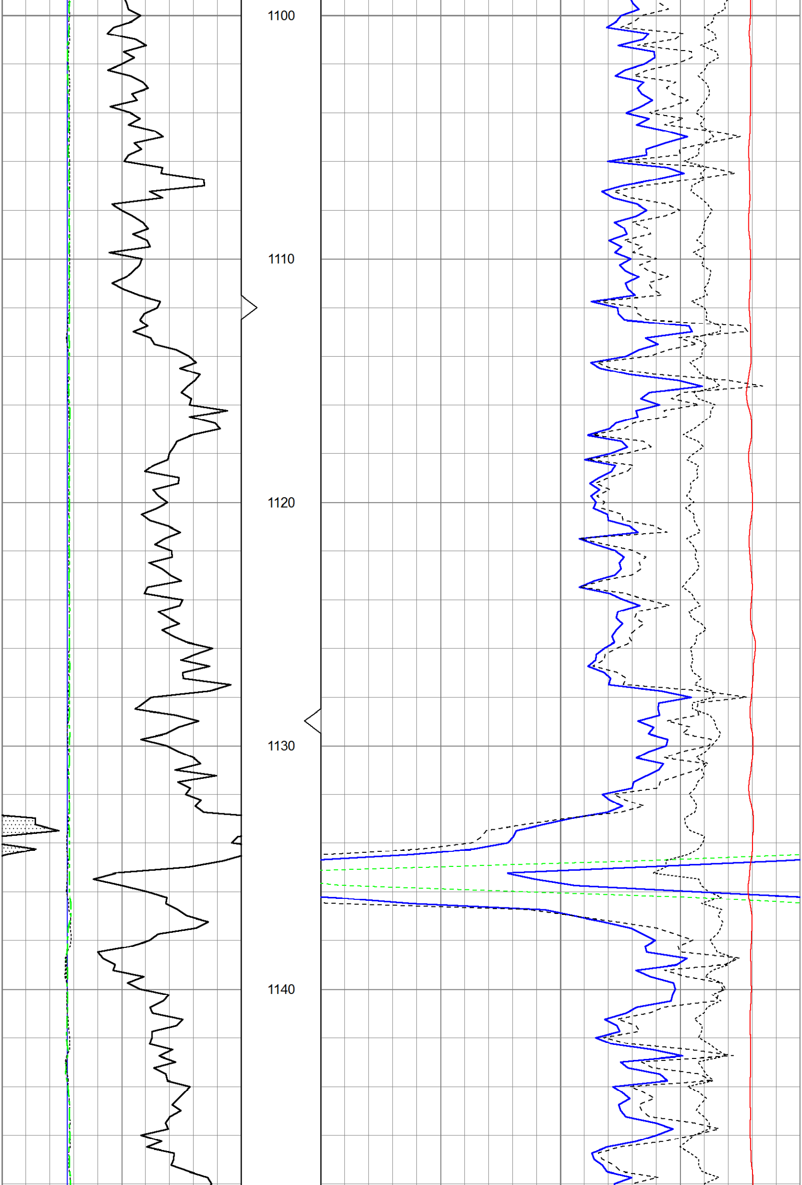

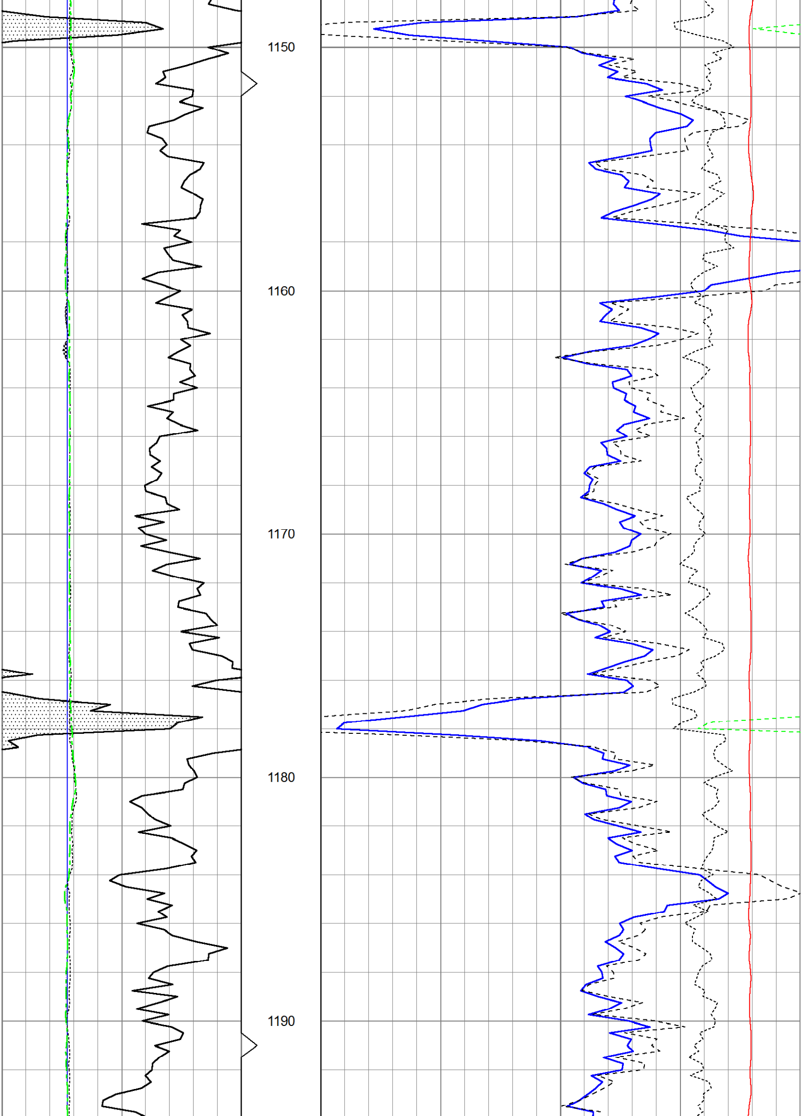

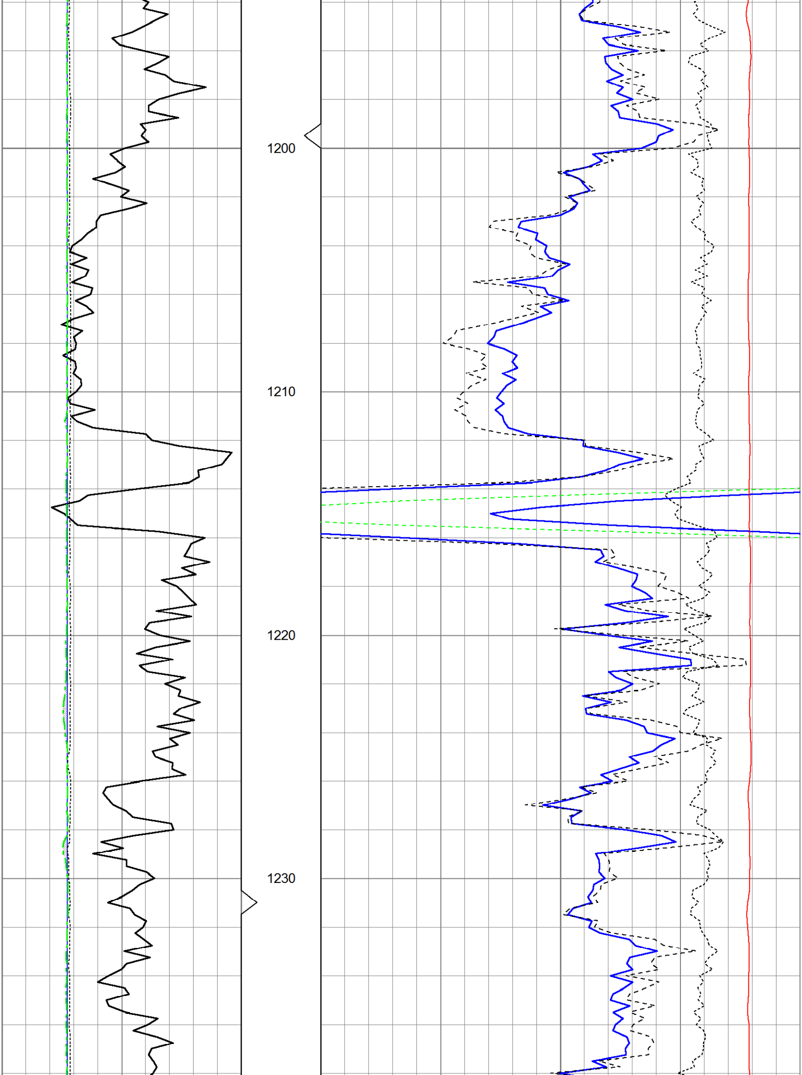

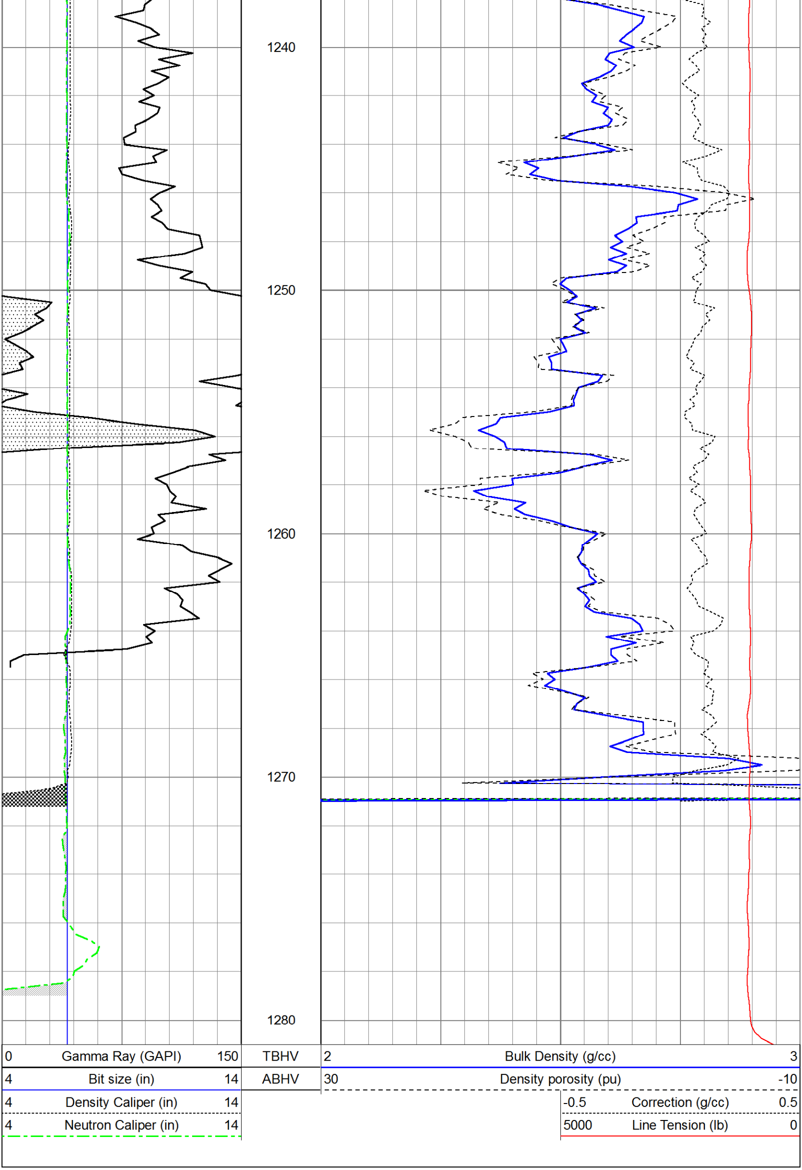

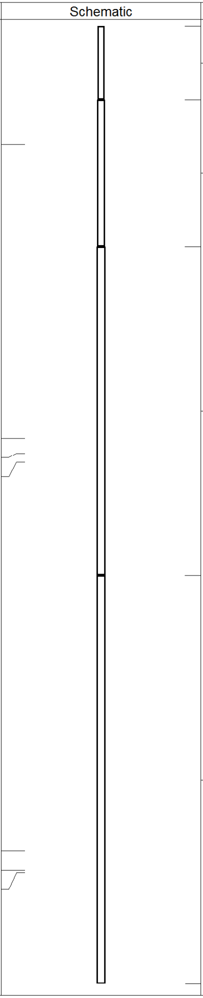

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			CableHead Isulation Sub	1.42	3.00	20.00
GR	16.06					
			Gamma-Oilex3006 (3006) Gamma Ray Section	2.81	3.50	75.00
			Density-Oilex3006 (280) Density Section	6.29	4.00	200.00
LSD	10.44					
DCAL	10.15					
SSD	9.98					
			Neutron-Sidewall3015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

Dataset:	ow2-7360 layne energy.db: field/well/CDL/pass1
Total Length:	18.33 ft
Total Weight:	445.00 lb
O.D.	4.00 in