HIGH RESOLUTION COMPENSATED DENSITY SIDEWALL NEUTRON LOG

Company LAYNE ENERGY OPERATING, LLC
Well COTTON # 6-4
Field
County MONTGOMERY
State KANSAS

Company LAYNE ENERGY OPERATING, LLC
Well COTTON # 6-4
Field
County MONTGOMERY State KANSAS

Location: API # : 15-125-32103-0000
NW SW SE NW
2290' FNL & 1450' FWL
SEC 4 TWP 34S RGE 16E

Other Services: DIL

Permanent Datum	GL	Elevation	844'
Log Measured From	GL		
Drilling Measured From	GL		

Elevation
K.B. ---
D.F. ---
G.L. 844'

Date	6-22-2011		
Run Number	ONE		
Depth Driller	1183'		
Depth Logger	1183'		
Bottom Logged Interval	1181'		
Top Log Interval	SURFACE		
Casing Driller	8.625" @ 21'		
Casing Logger	8.625" @ 21'		
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	OW1		
Location	HOMINY ,OK		
Recorded By	SHELDON TYLER	SPENCER TYLER	
Witnessed By	MR.TAYLOR		

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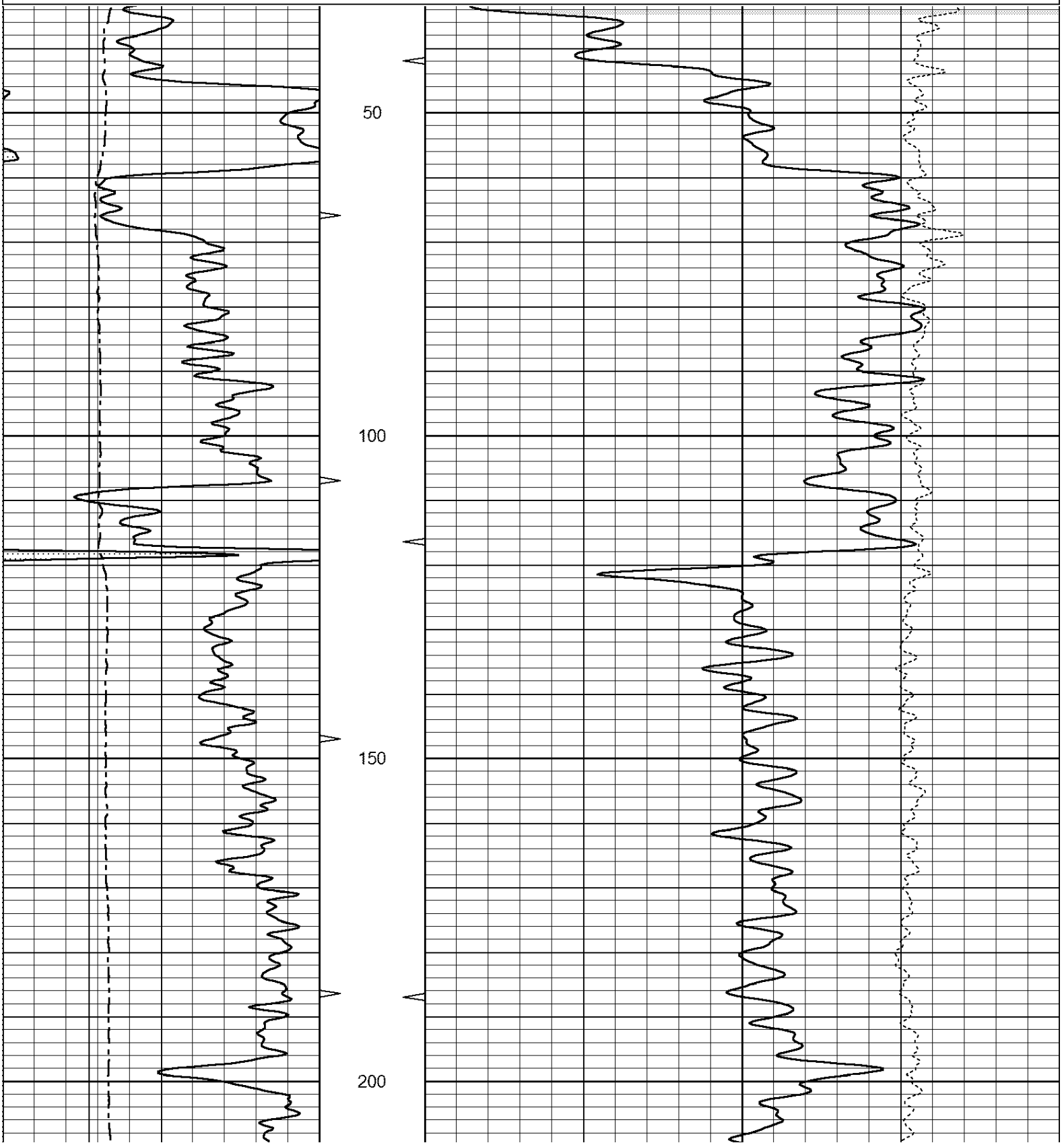
Comments

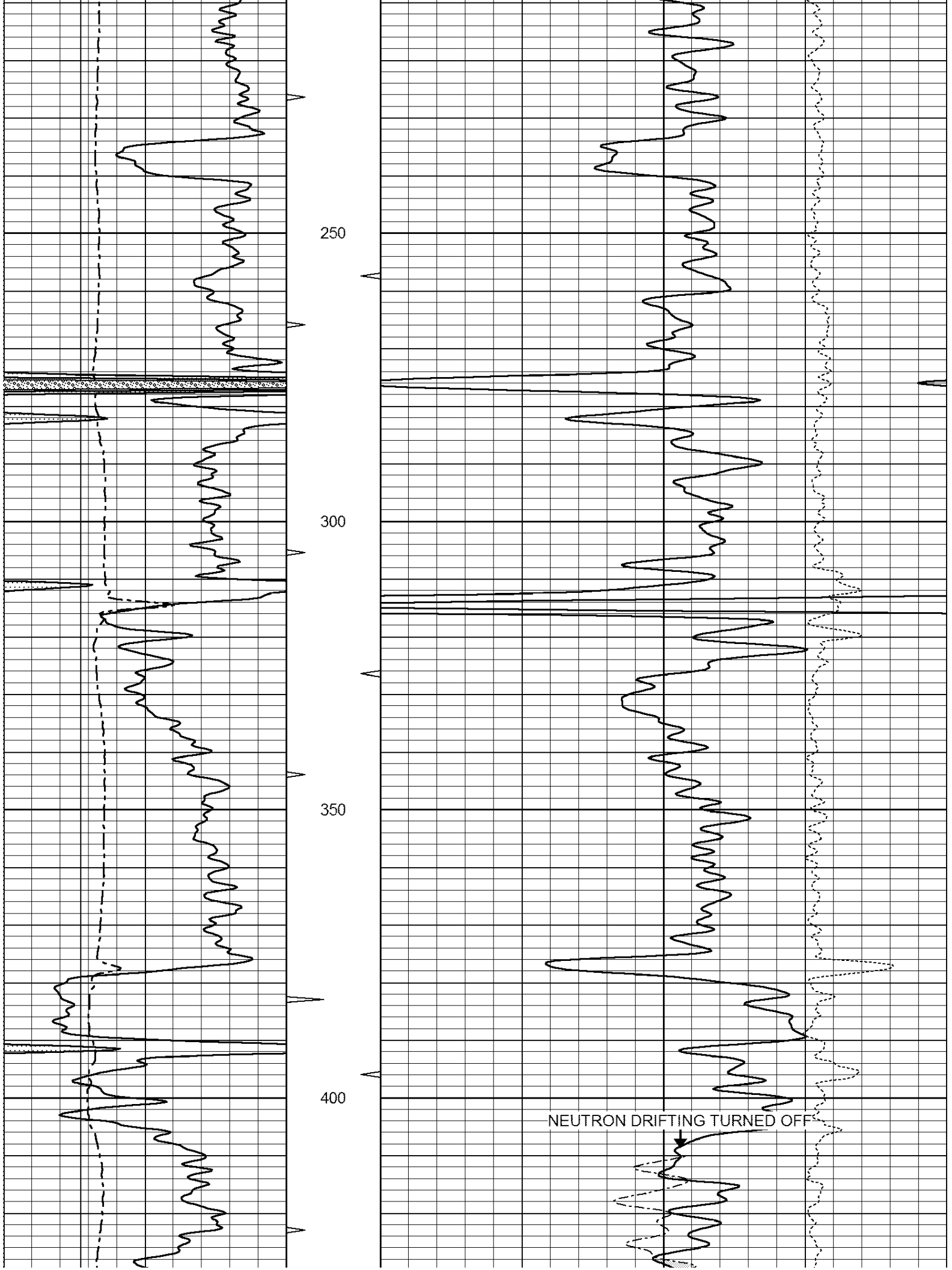
OW1-7798
MATRIX LIMSTONE 2.68 G/CC
ABHV COMPUTED WITH 4 1/2 " CASING

5" CDL/N 2.68 SECTION

Database File:	ow1-7798 layne energy.db
Dataset Pathname:	CDL/pass2.7
Presentation Format:	_neu4
Dataset Creation:	Wed Jun 22 18:46:17 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	Density Caliper (in)	14			-0.5	RHOC (g/cc)	0.5

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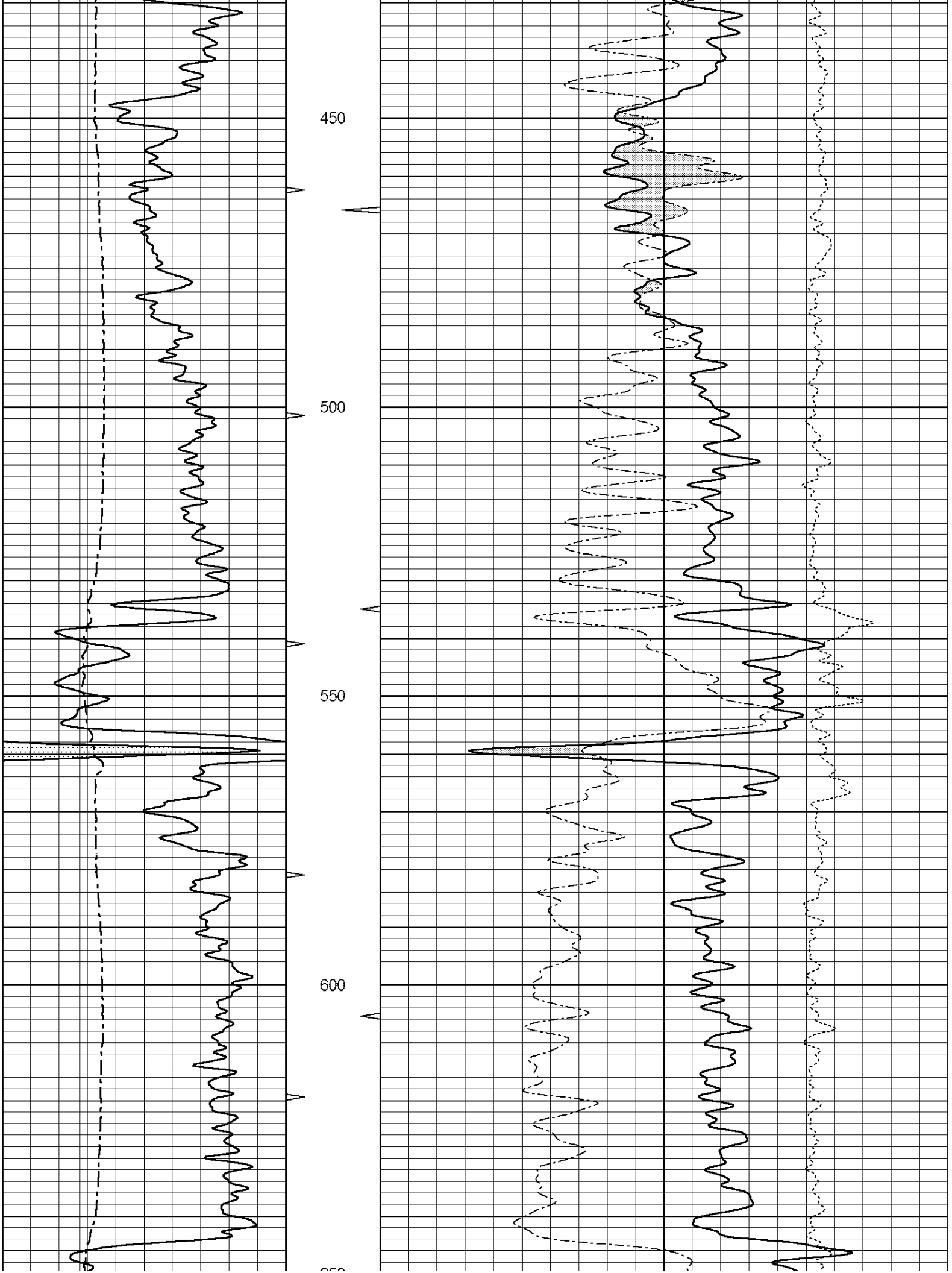
NEUTRON DRIFTING TURNED OFF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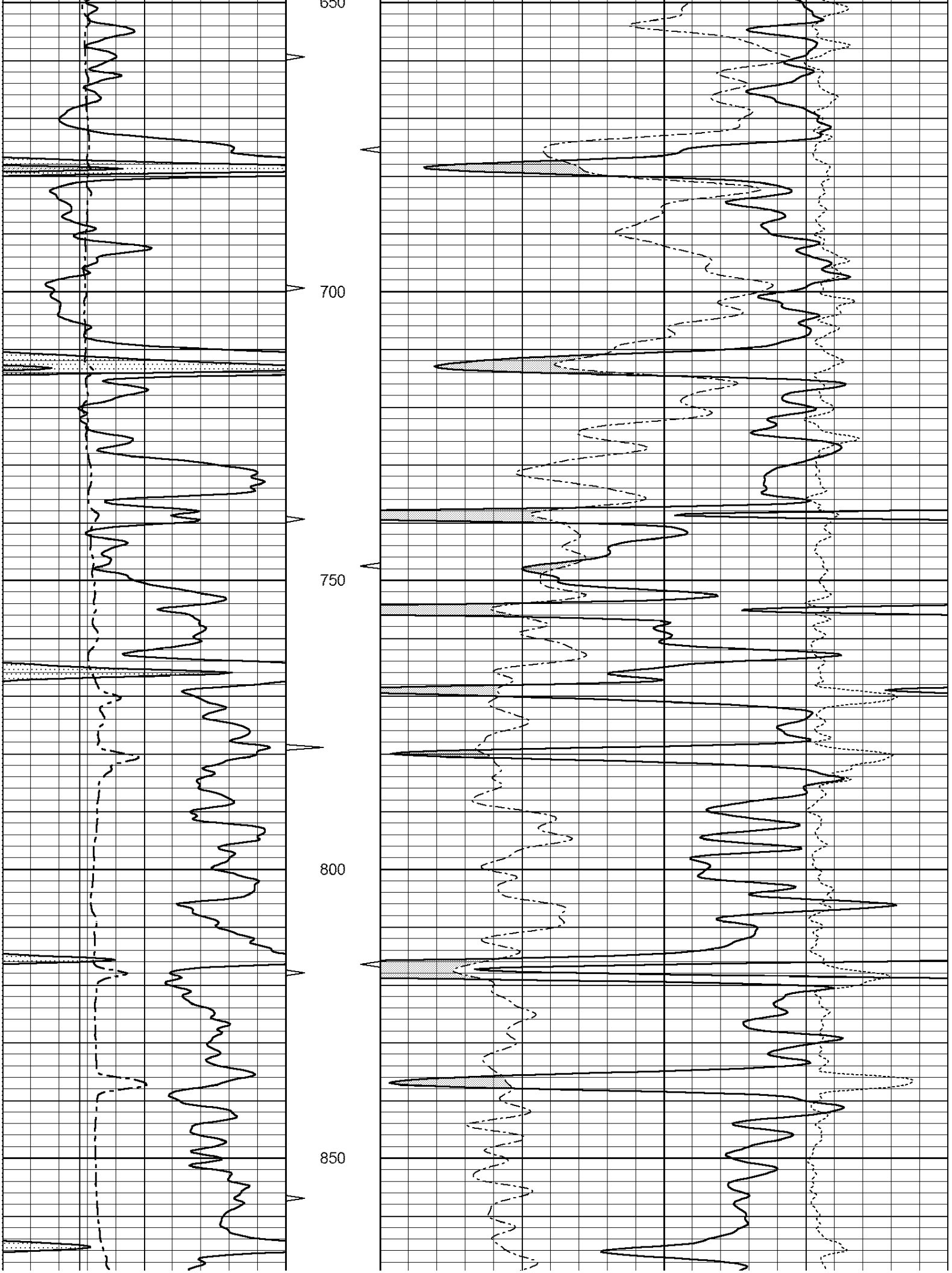
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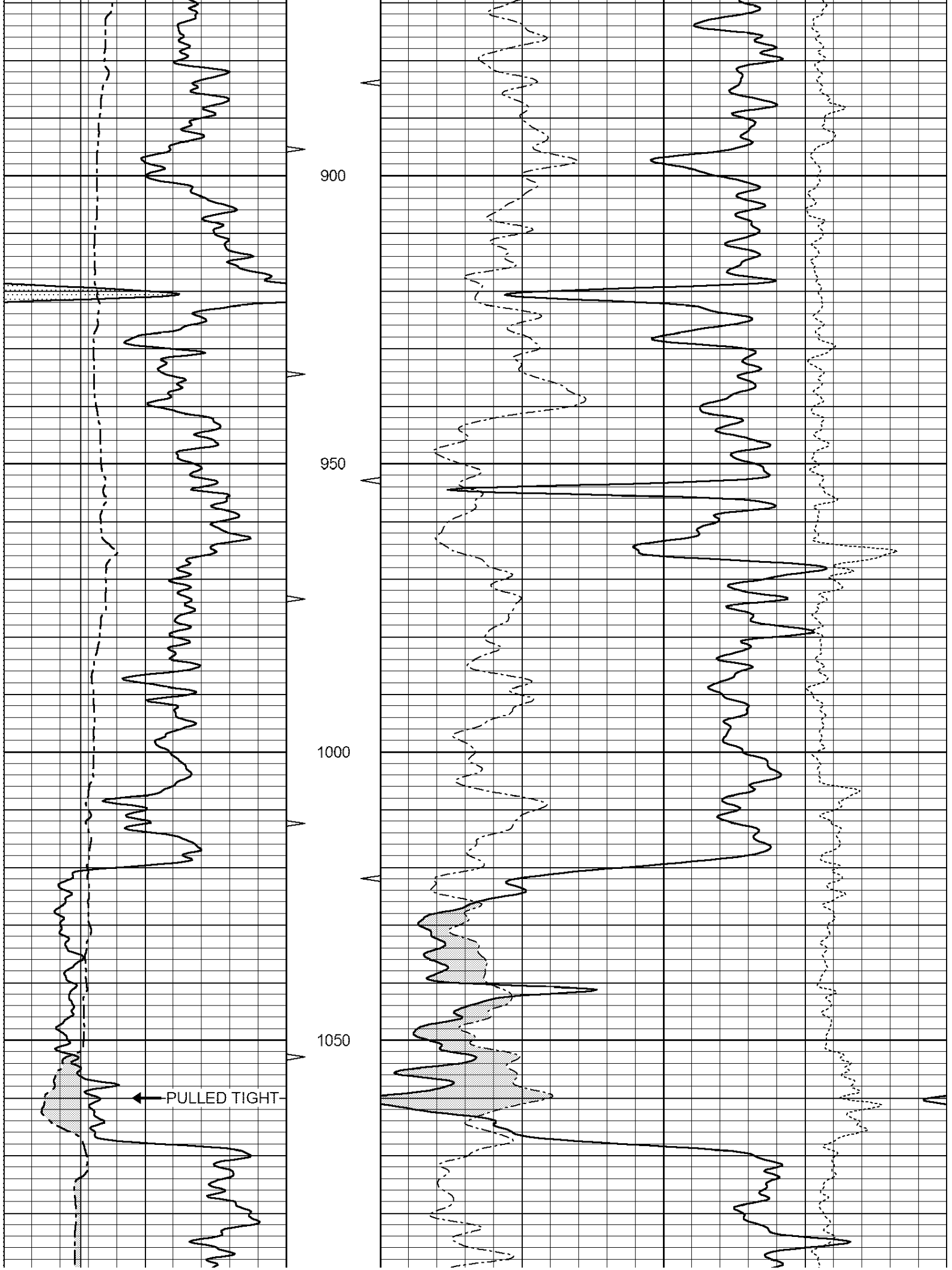
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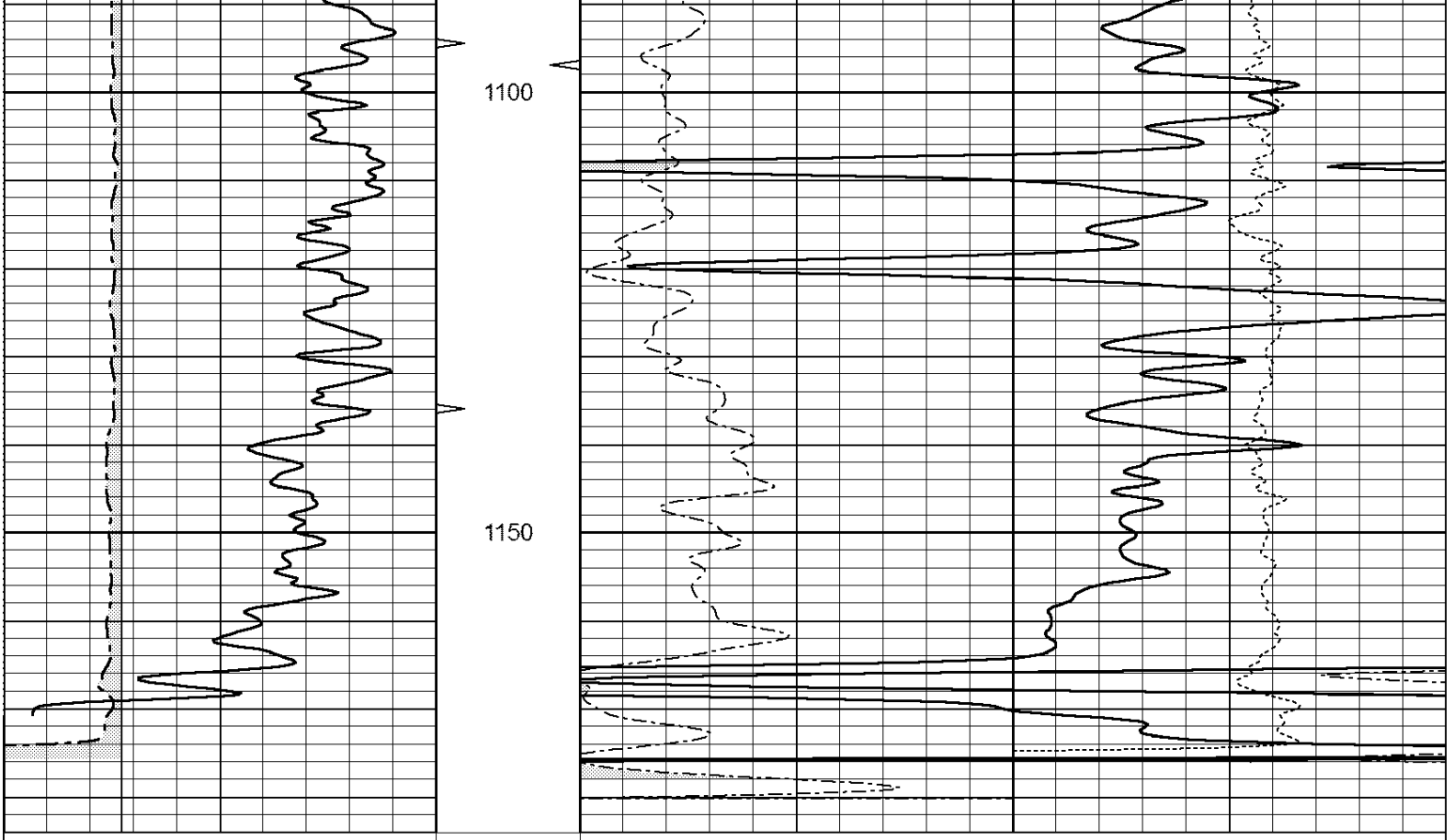
PULLED TIGHT

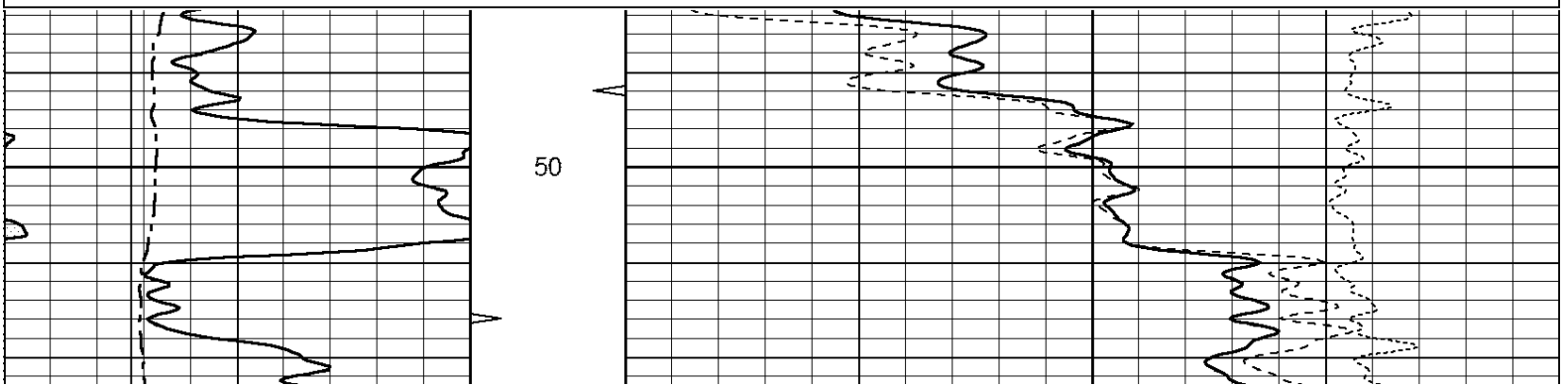


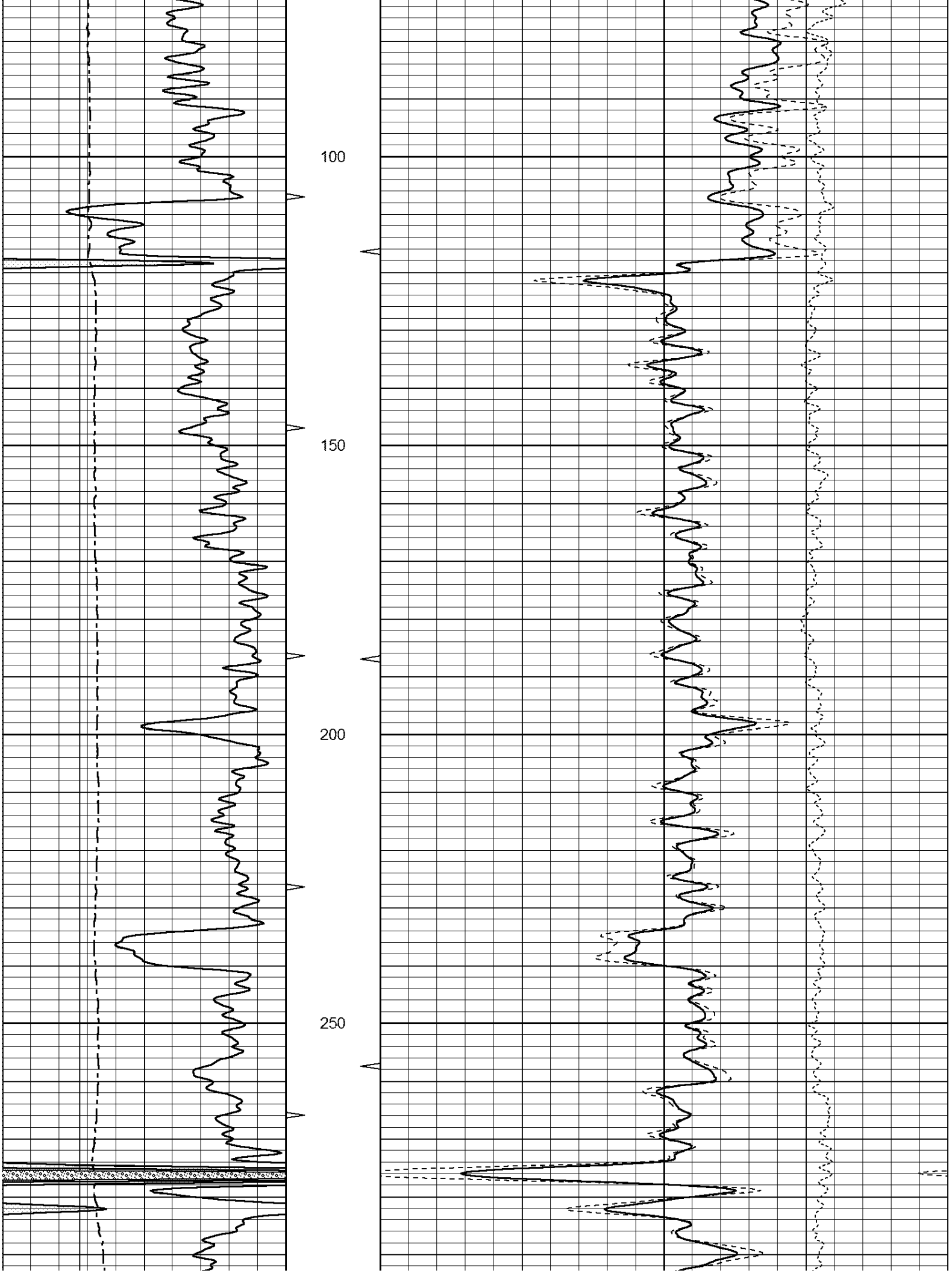
0	Gamma Ray (GAPI)	150	TBHV	30	Density Porosity (pu)		-10
4	Bit Size (in)	14	ABHV	30	Neutron Porosity (pu)		-10
4	Density Caliper (in)	14			-0.5	RHOC (g/cc)	0.5

5" CDL 2.68 SECTION

Database File:	ow1-7798 layne energy.db
Dataset Pathname:	CDL/pass2.8
Presentation Format:	bulk4
Dataset Creation:	Wed Jun 22 18:48:09 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	RHOC (g/cc)	0.5

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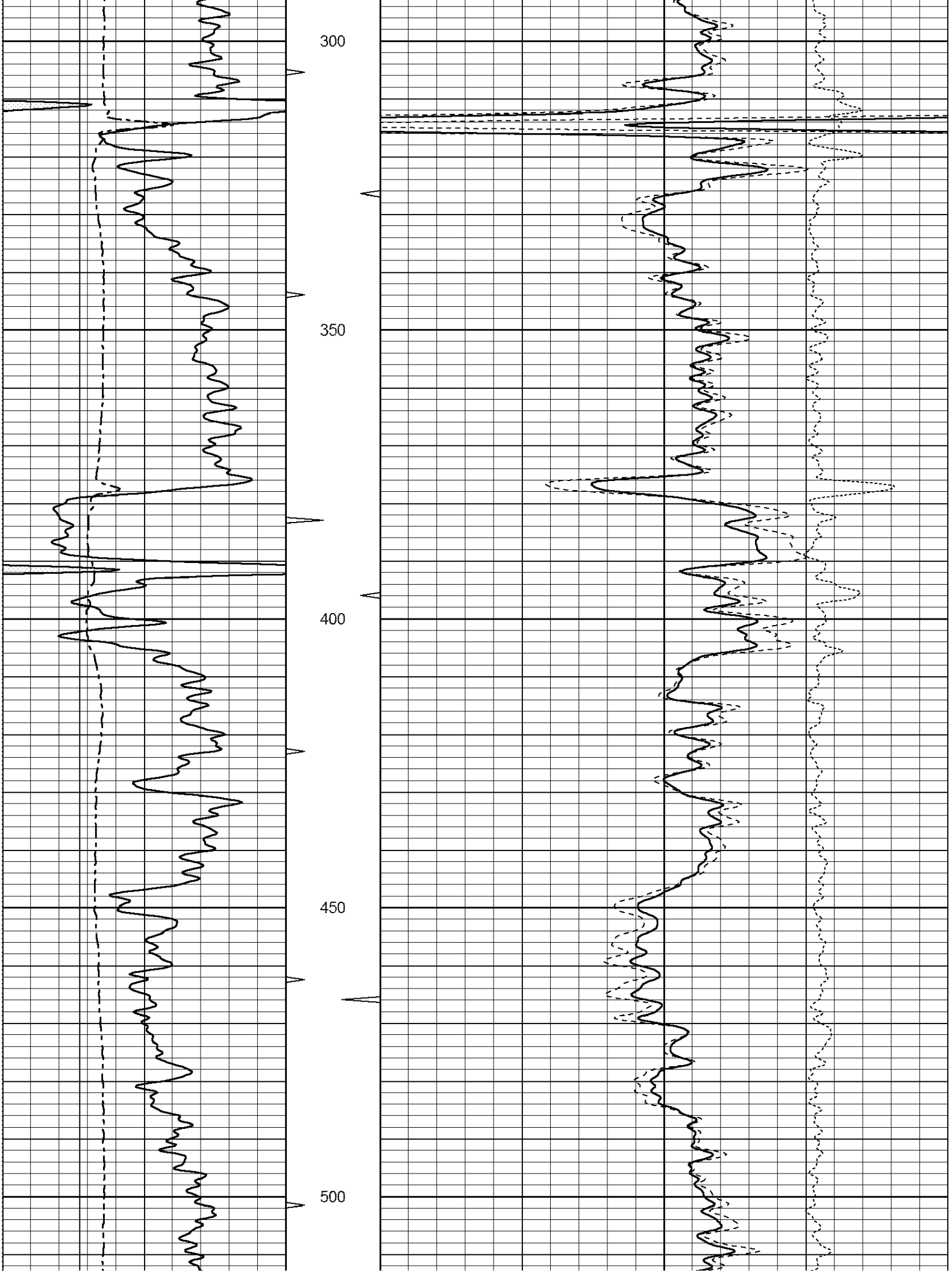
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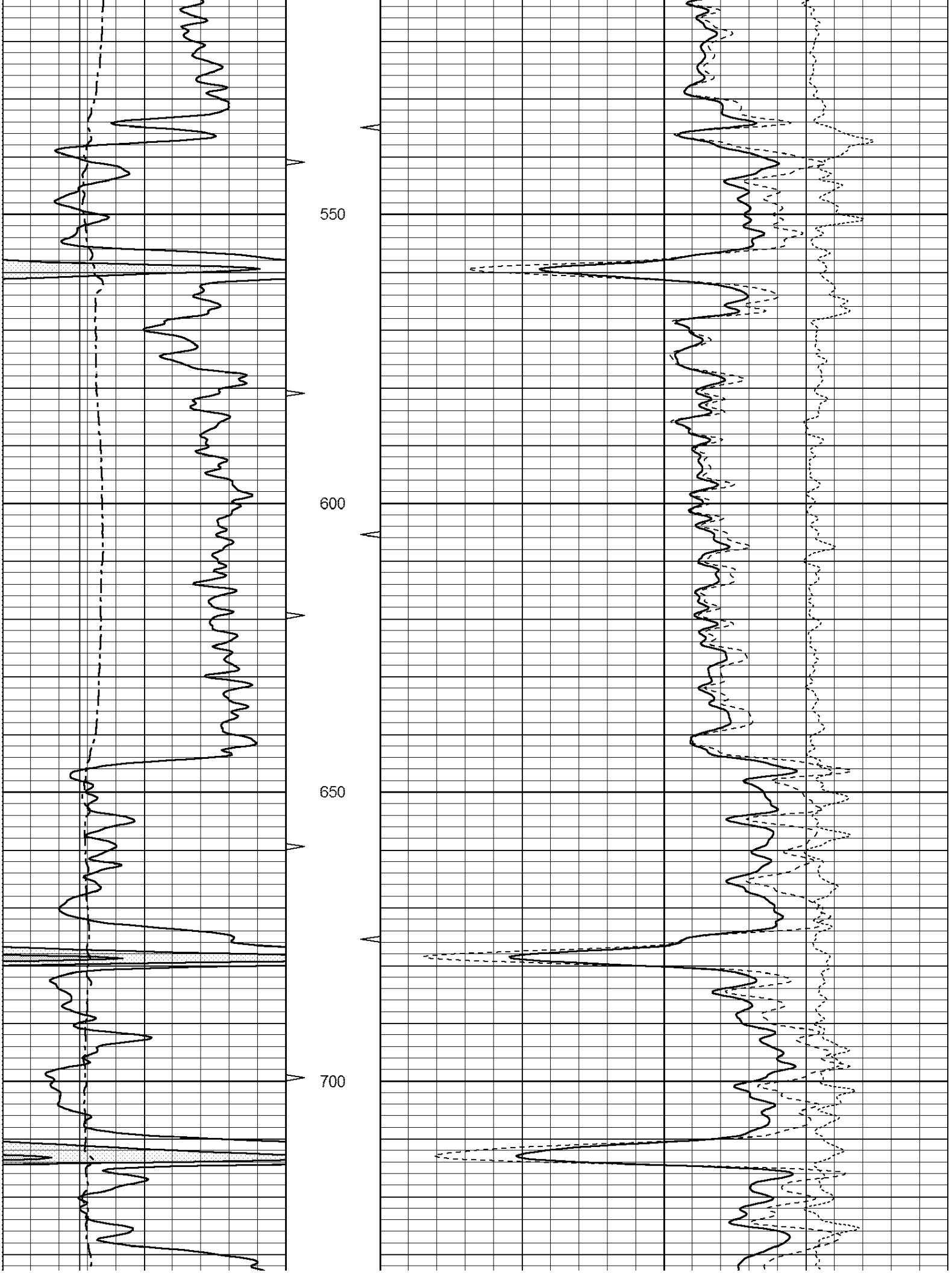
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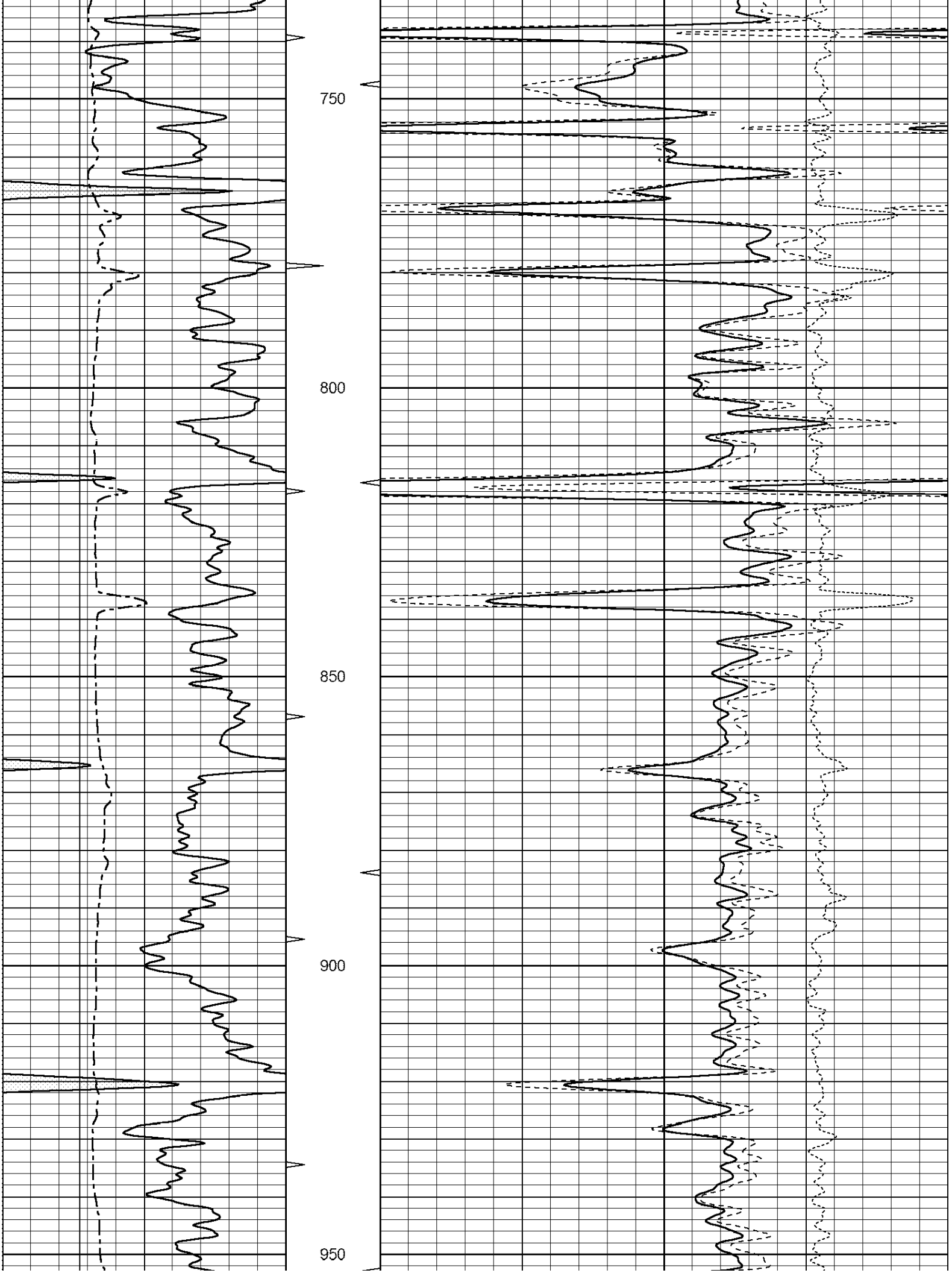
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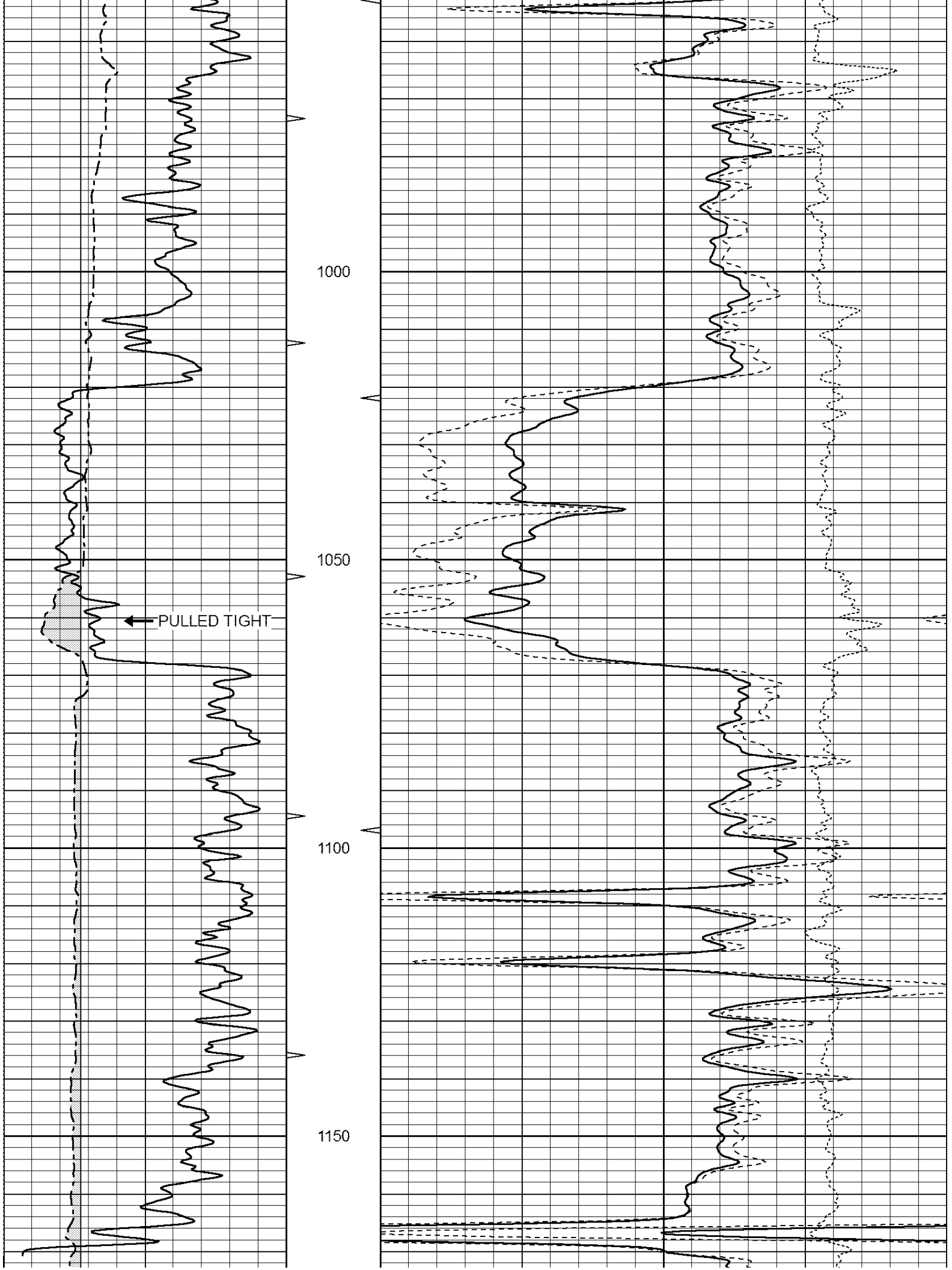
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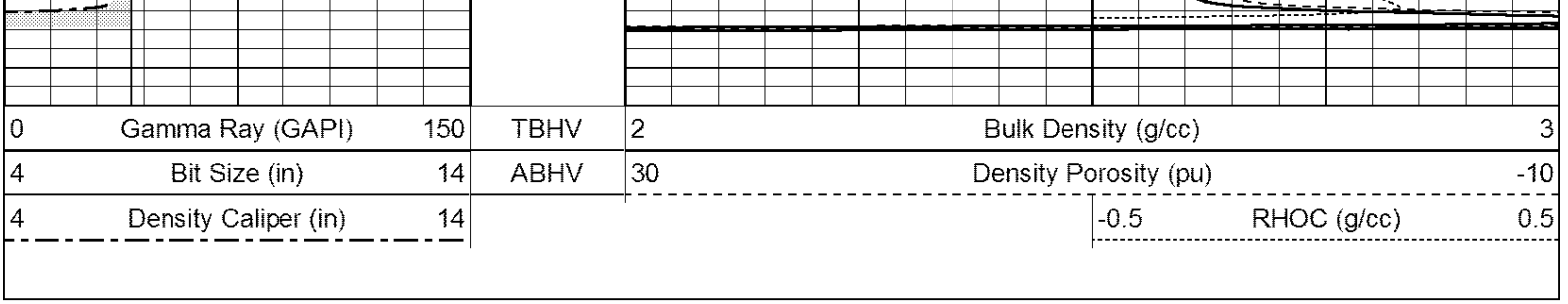
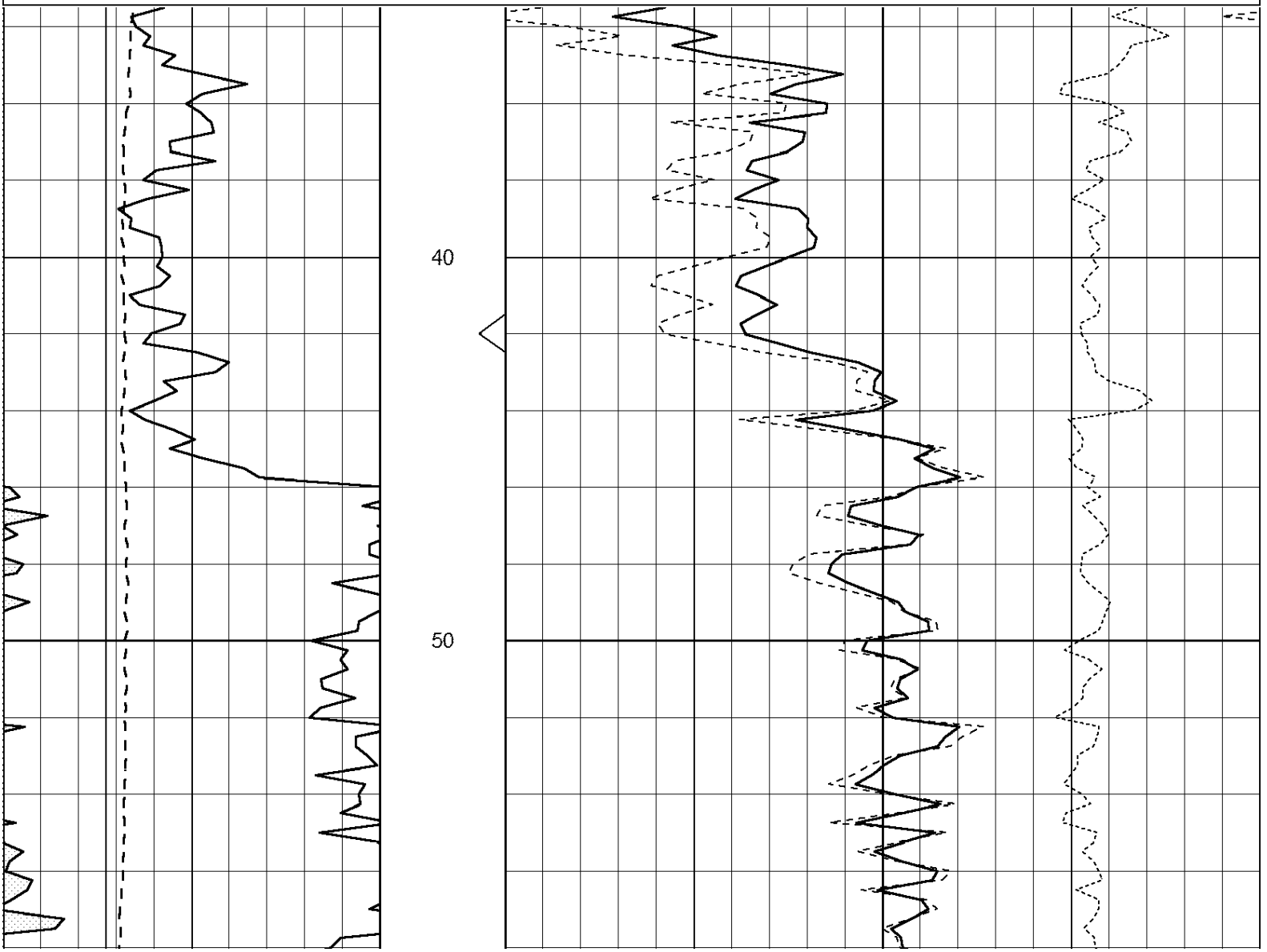
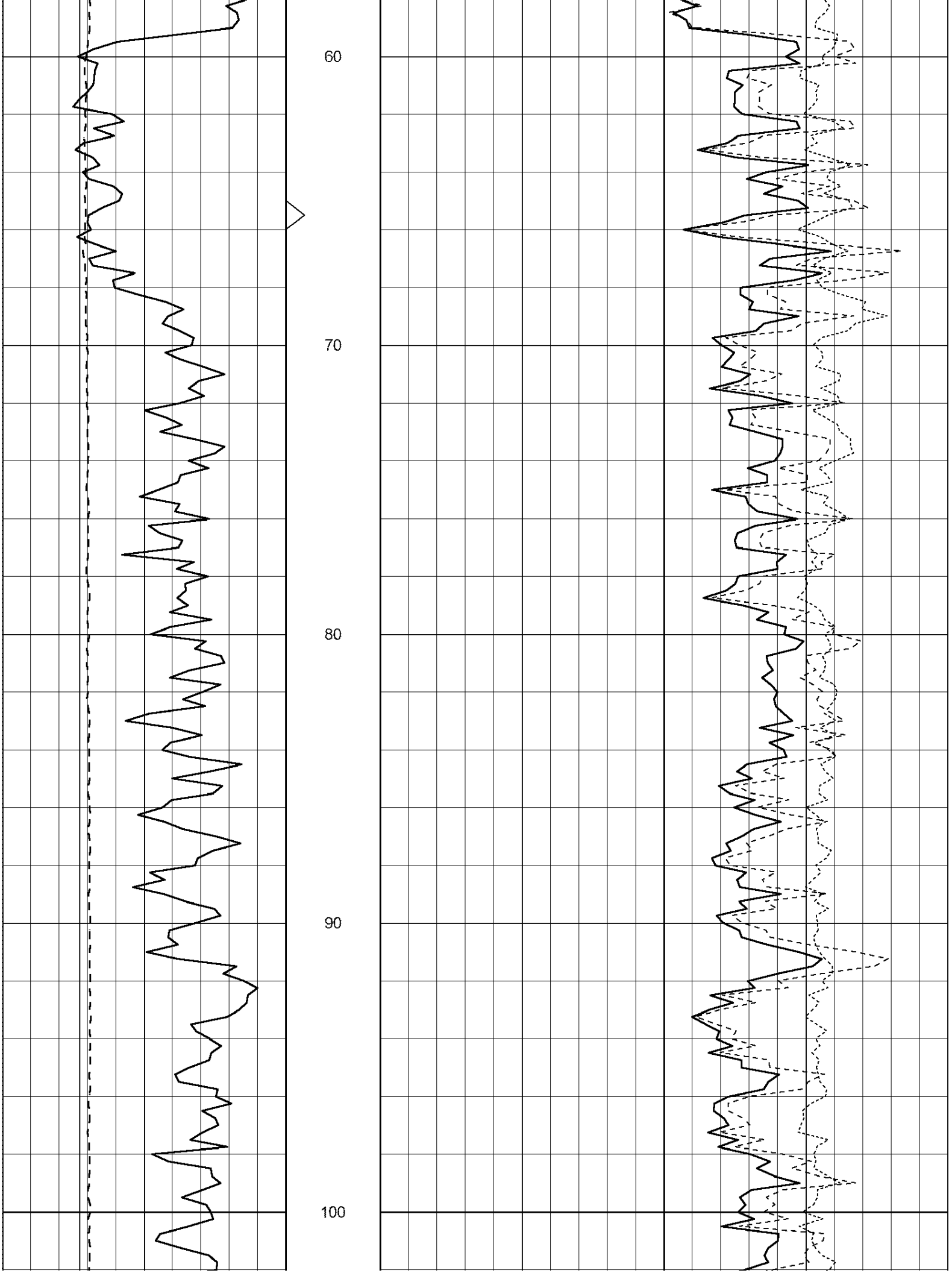
PULLED TIGHT
1100
1150



25" HR CDL 2.68 SECTION

Database File:	ow1-7798 layne energy.db
Dataset Pathname:	CDL/pass2.9
Presentation Format:	bulk4hr
Dataset Creation:	Wed Jun 22 18:48:24 2011 by Calc Open-Cased 110302
Charted by:	Depth in Feet scaled 1:48

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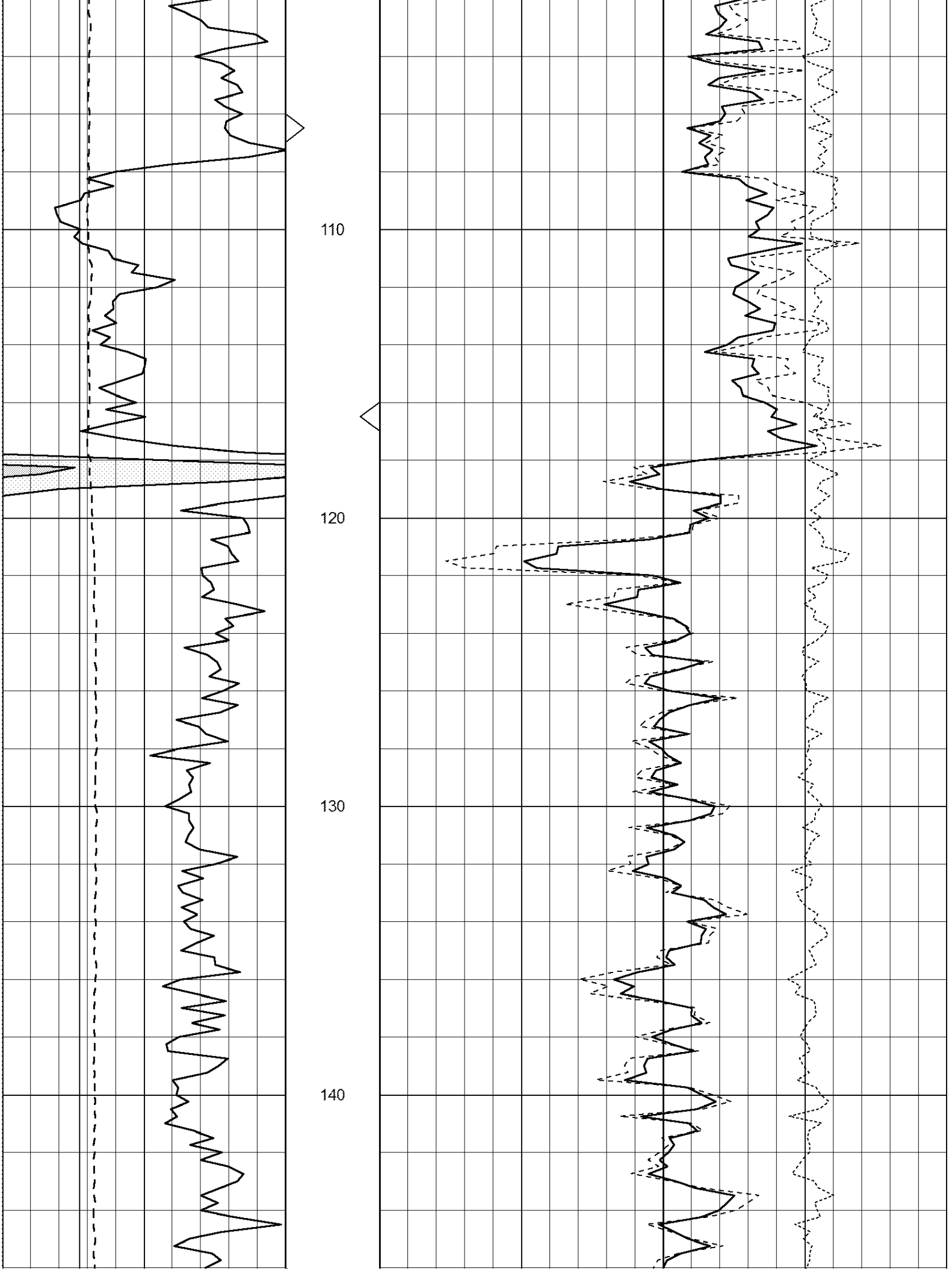
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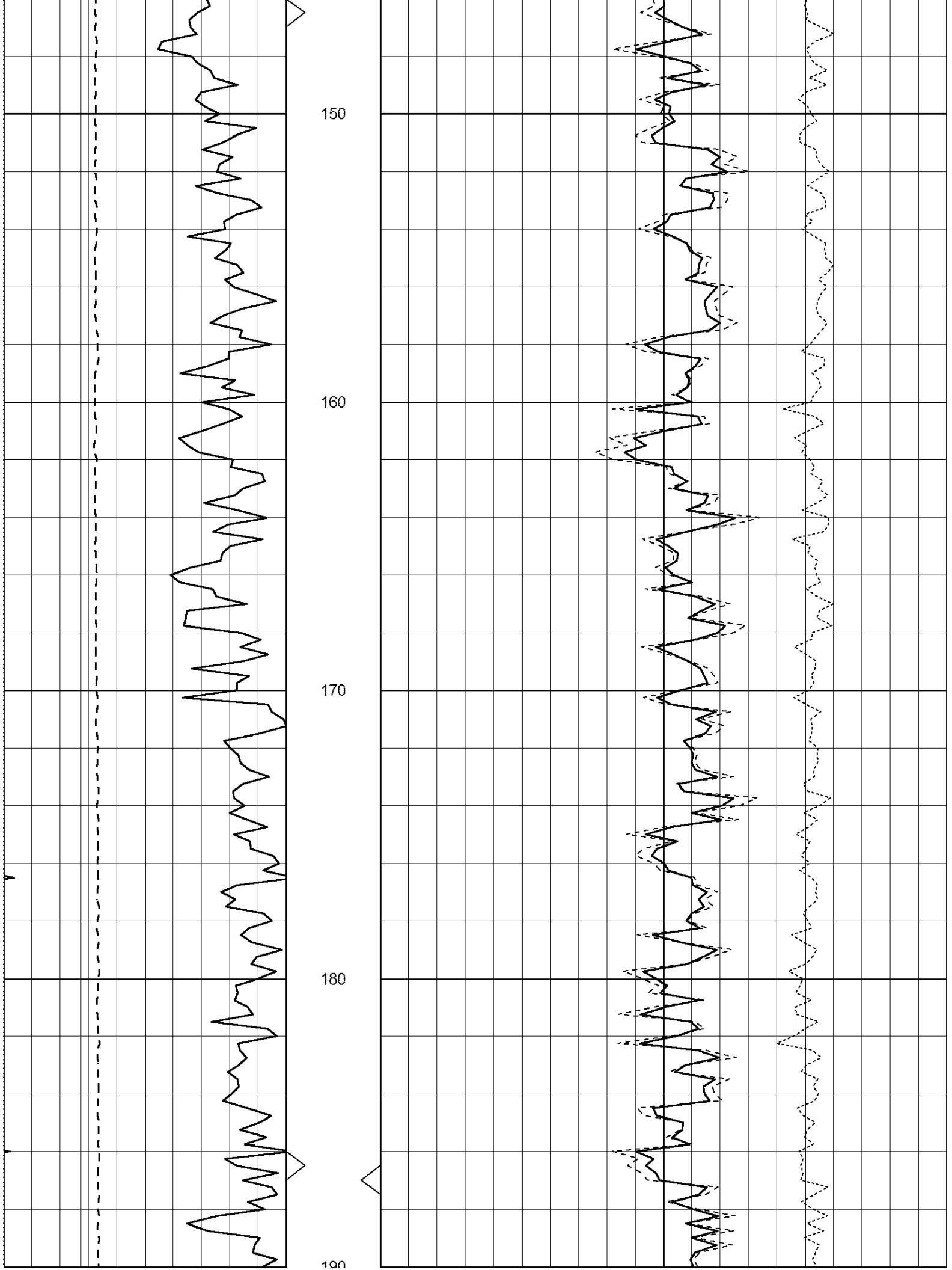
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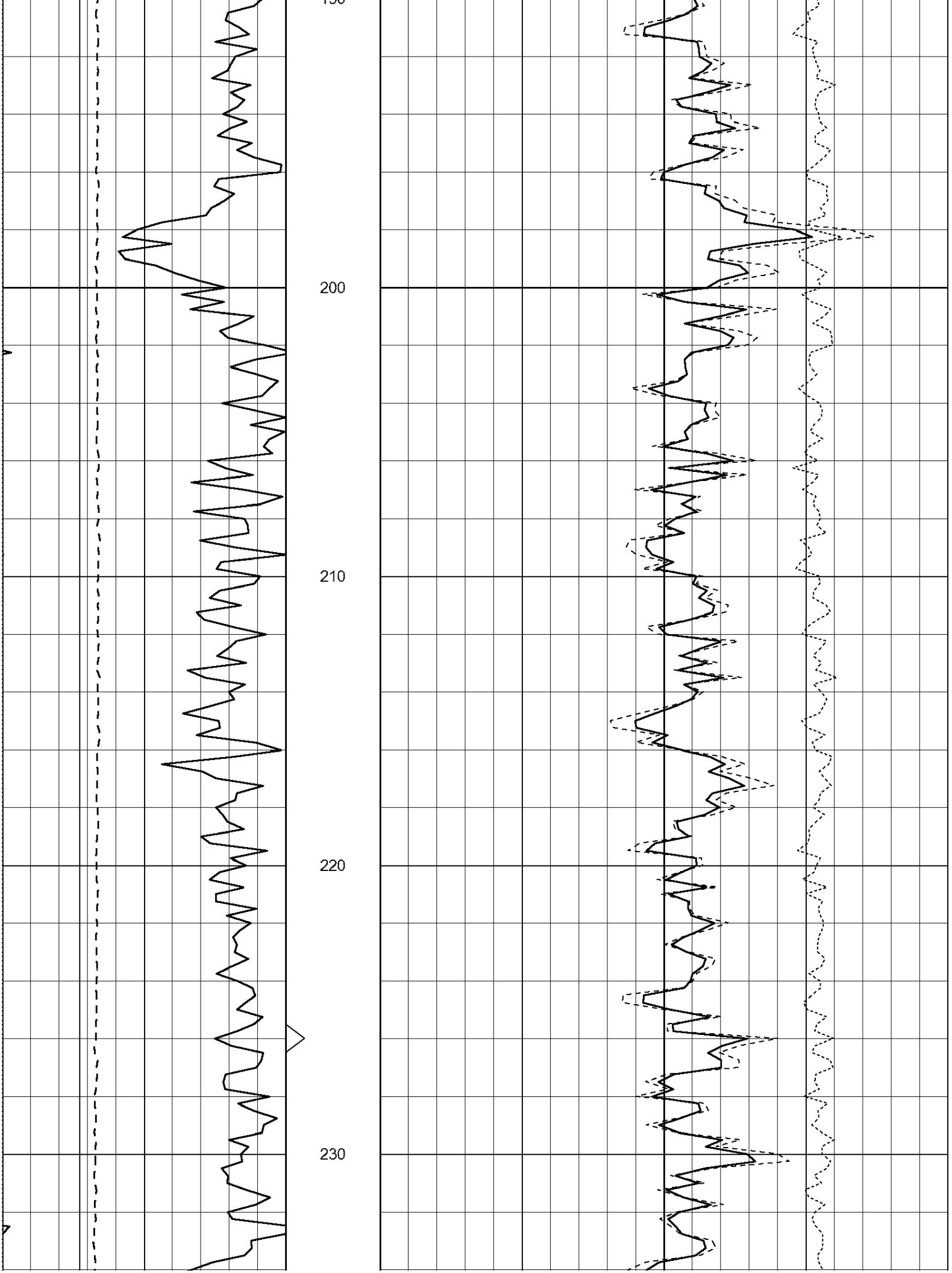
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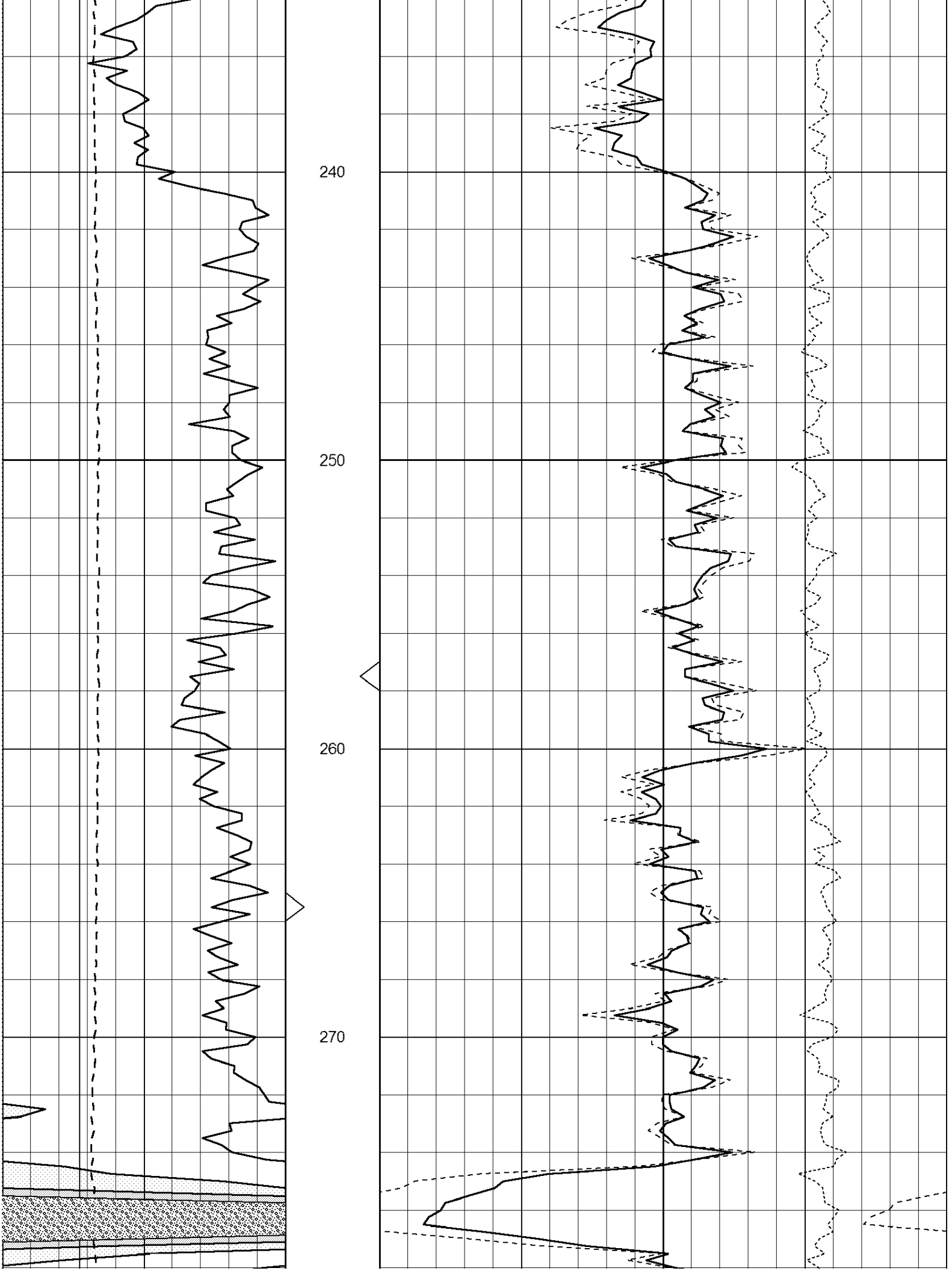
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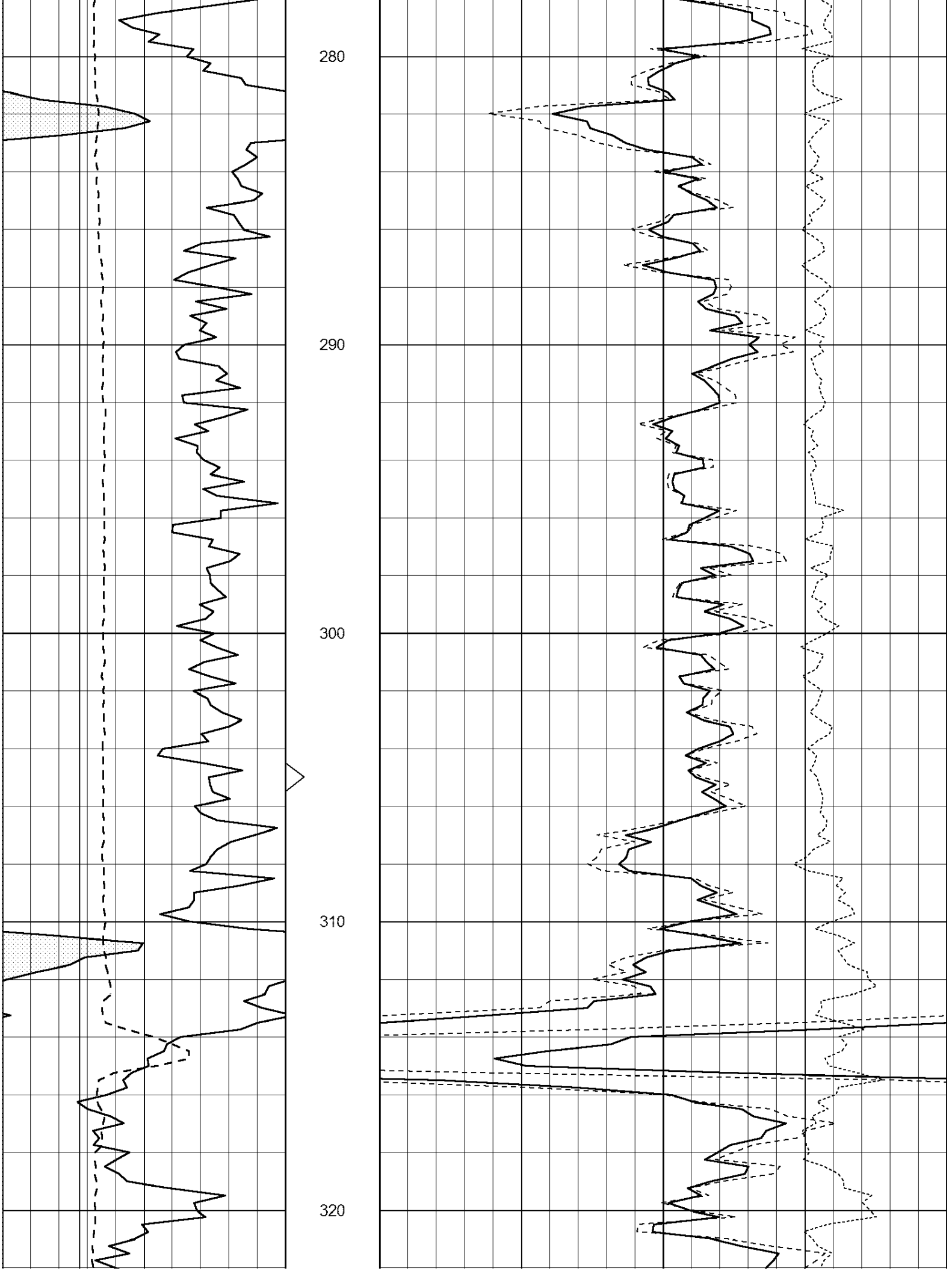
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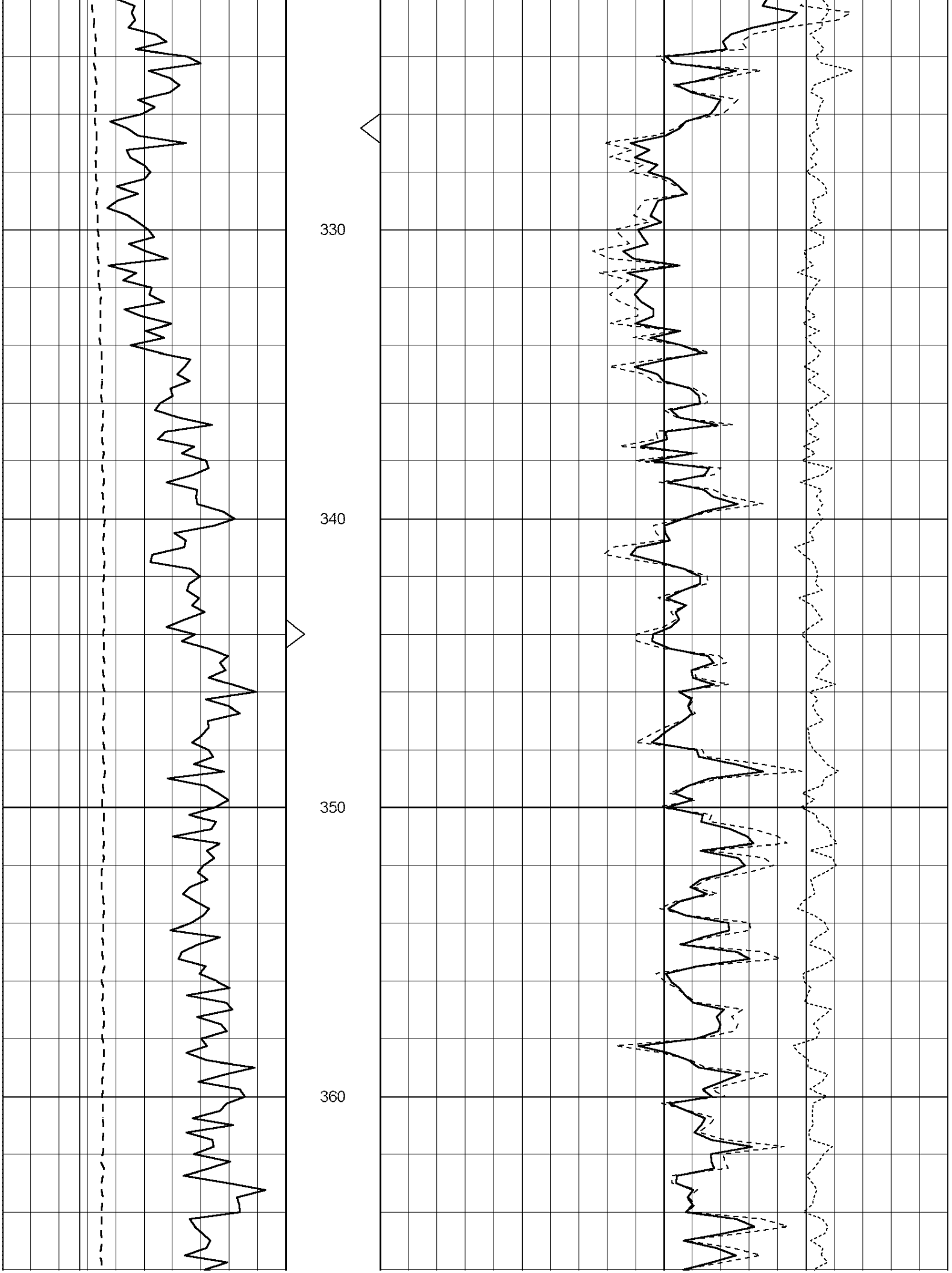
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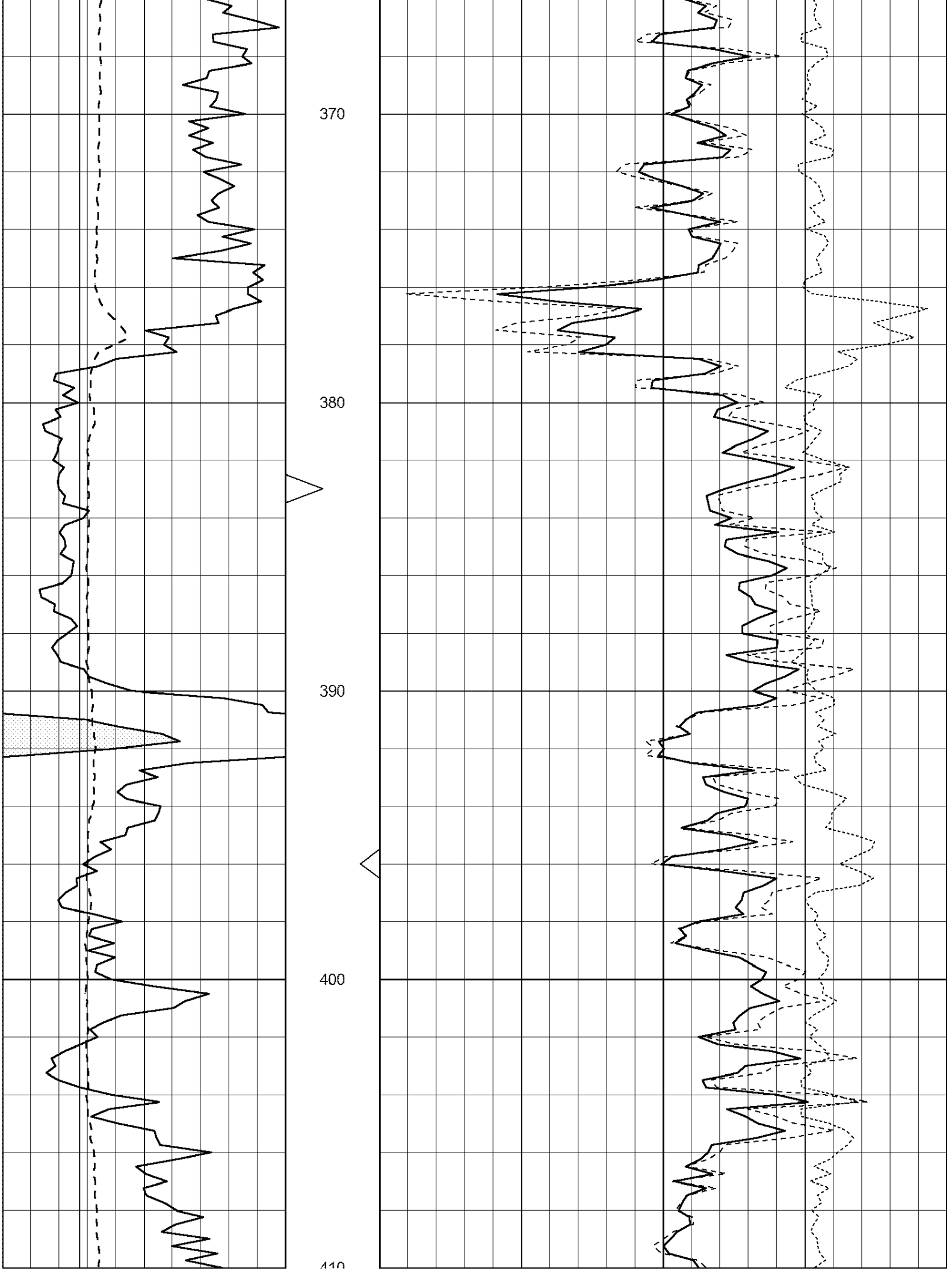
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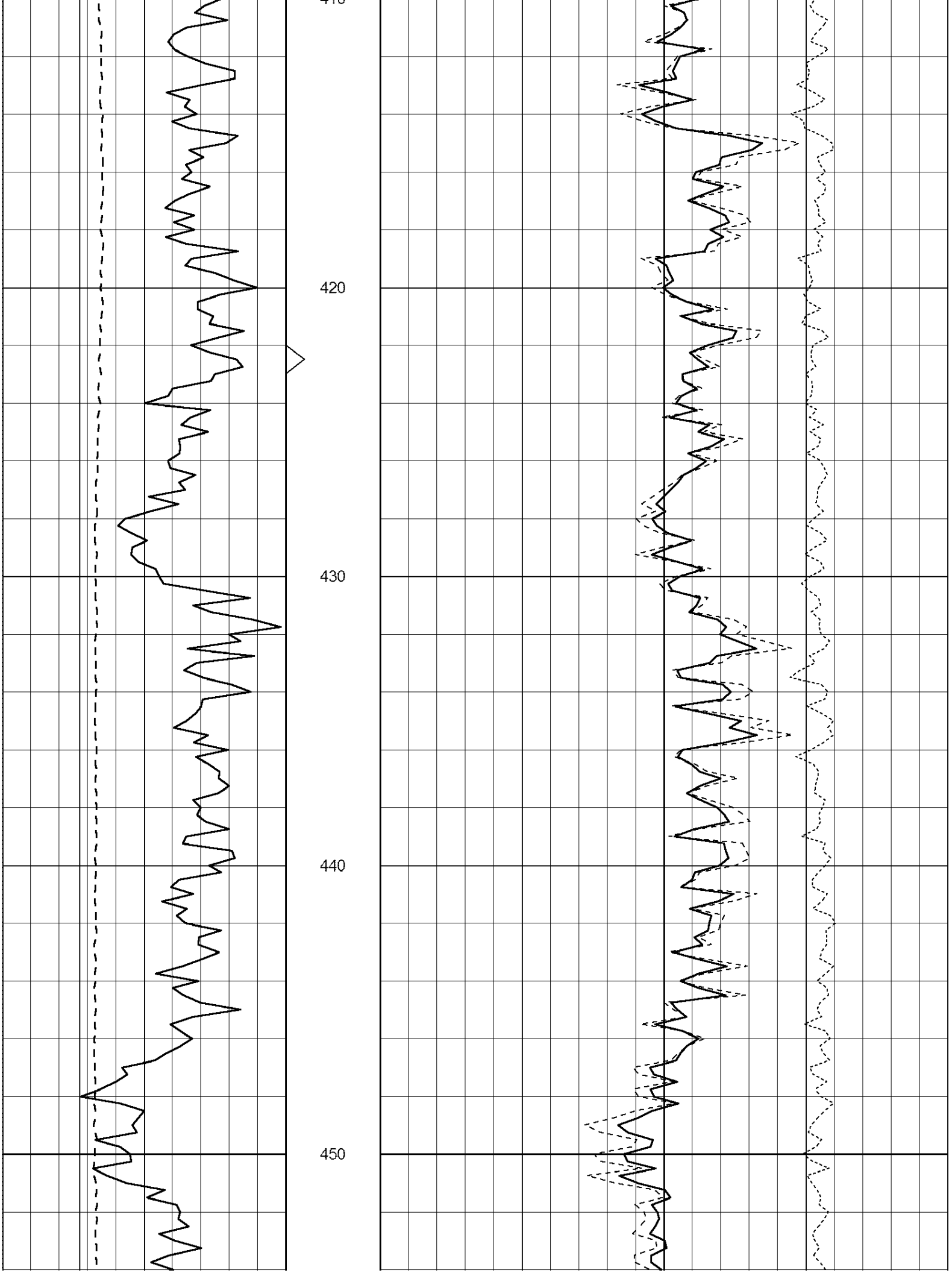
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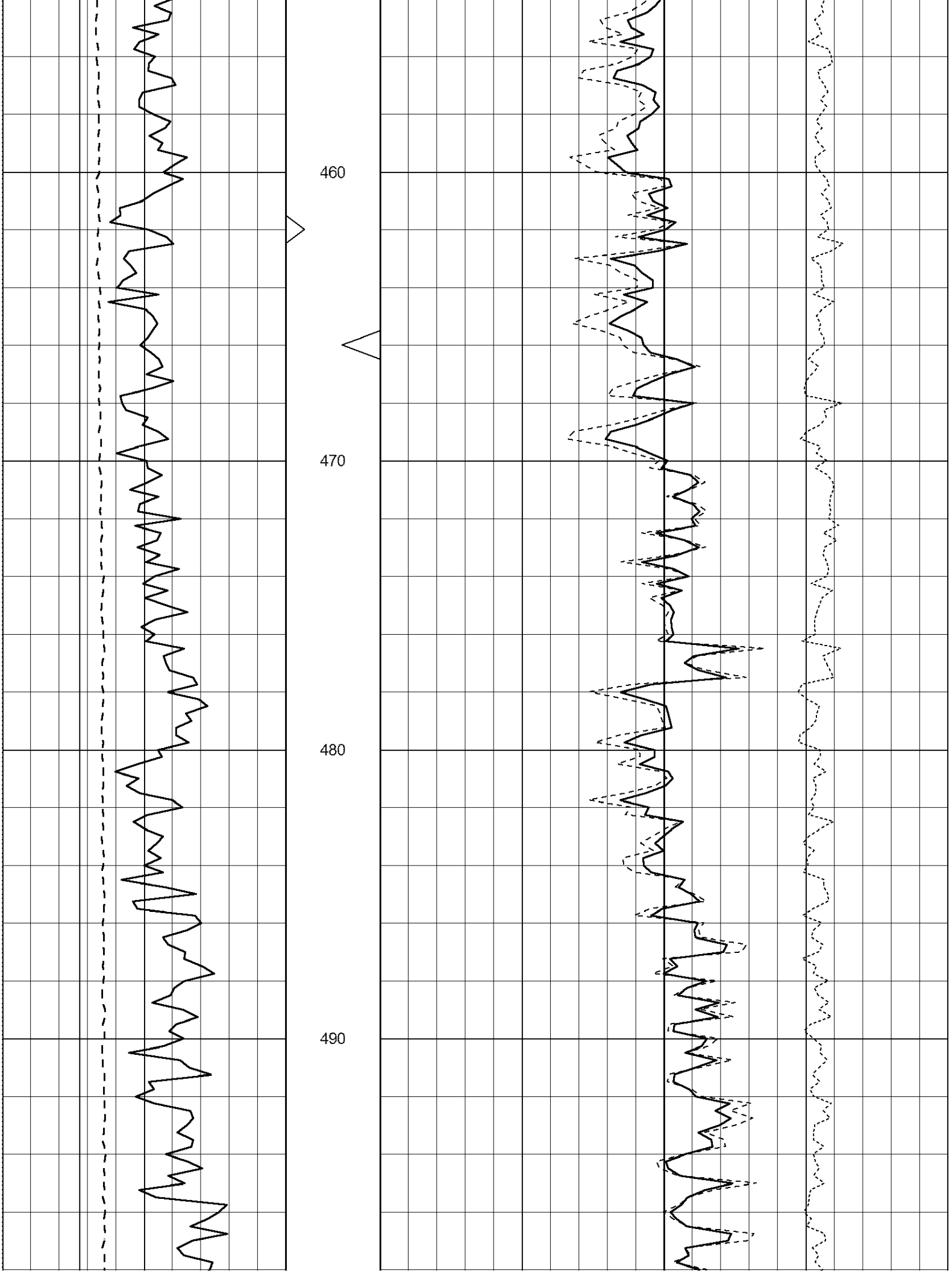
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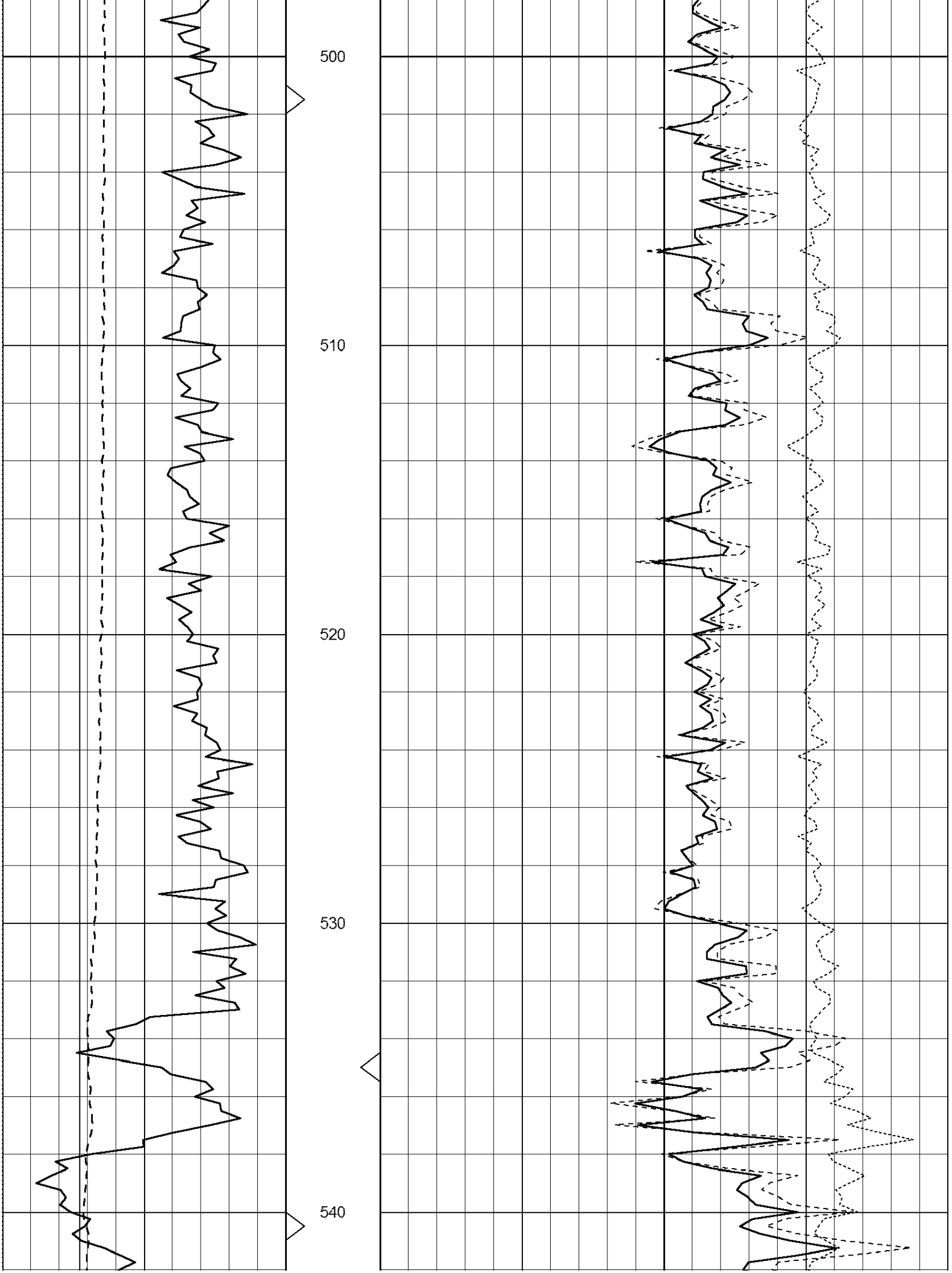
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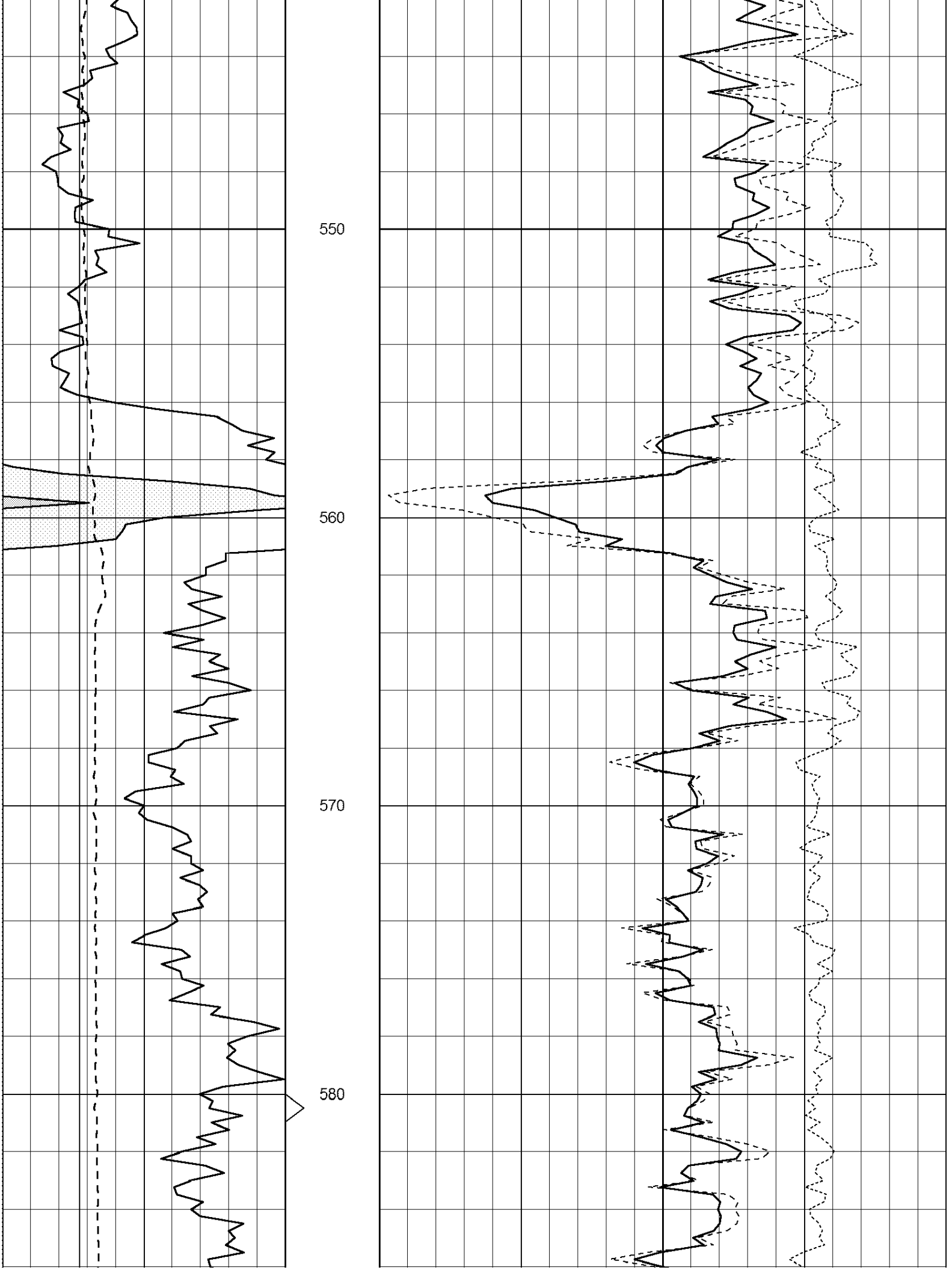
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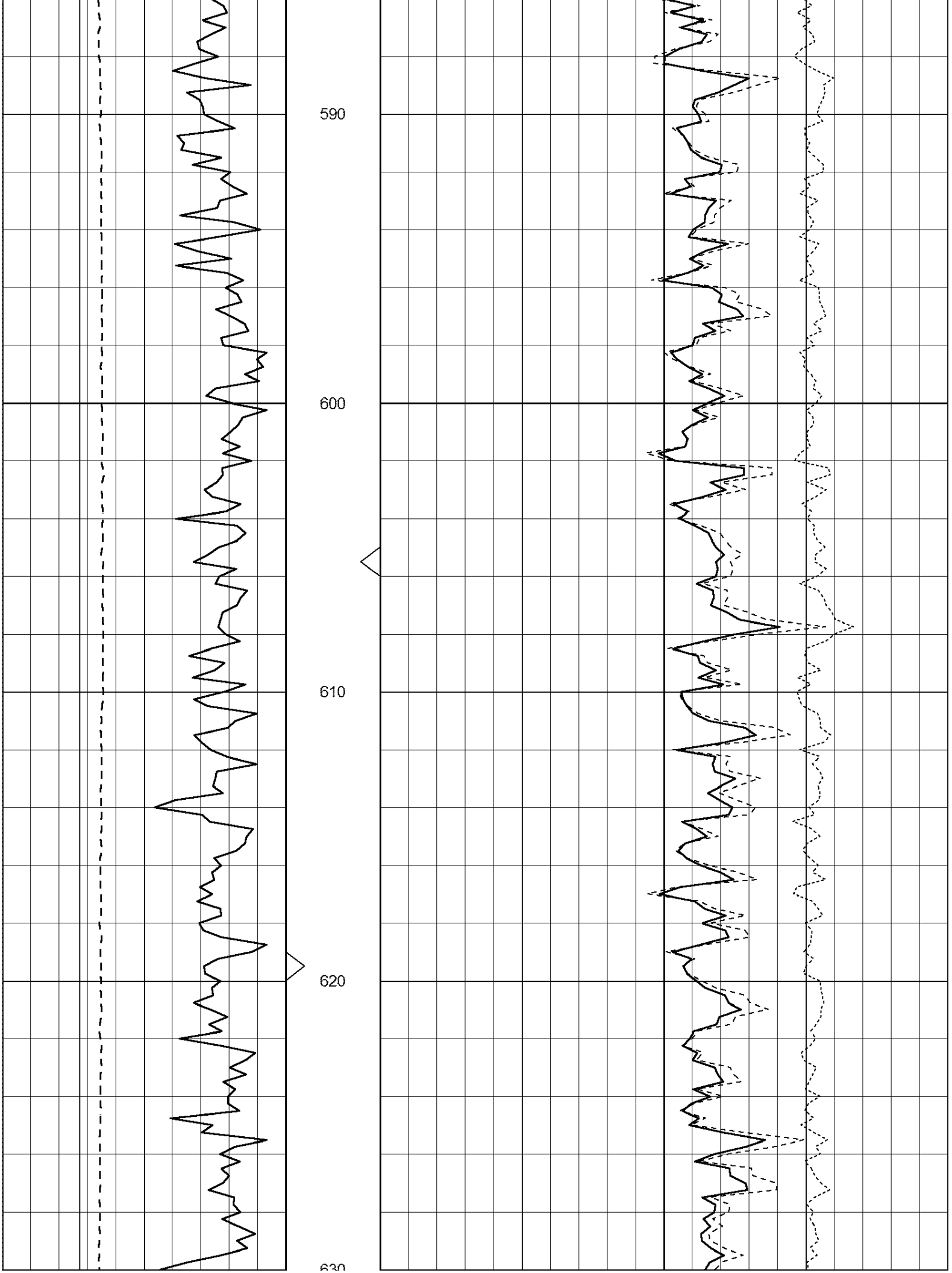
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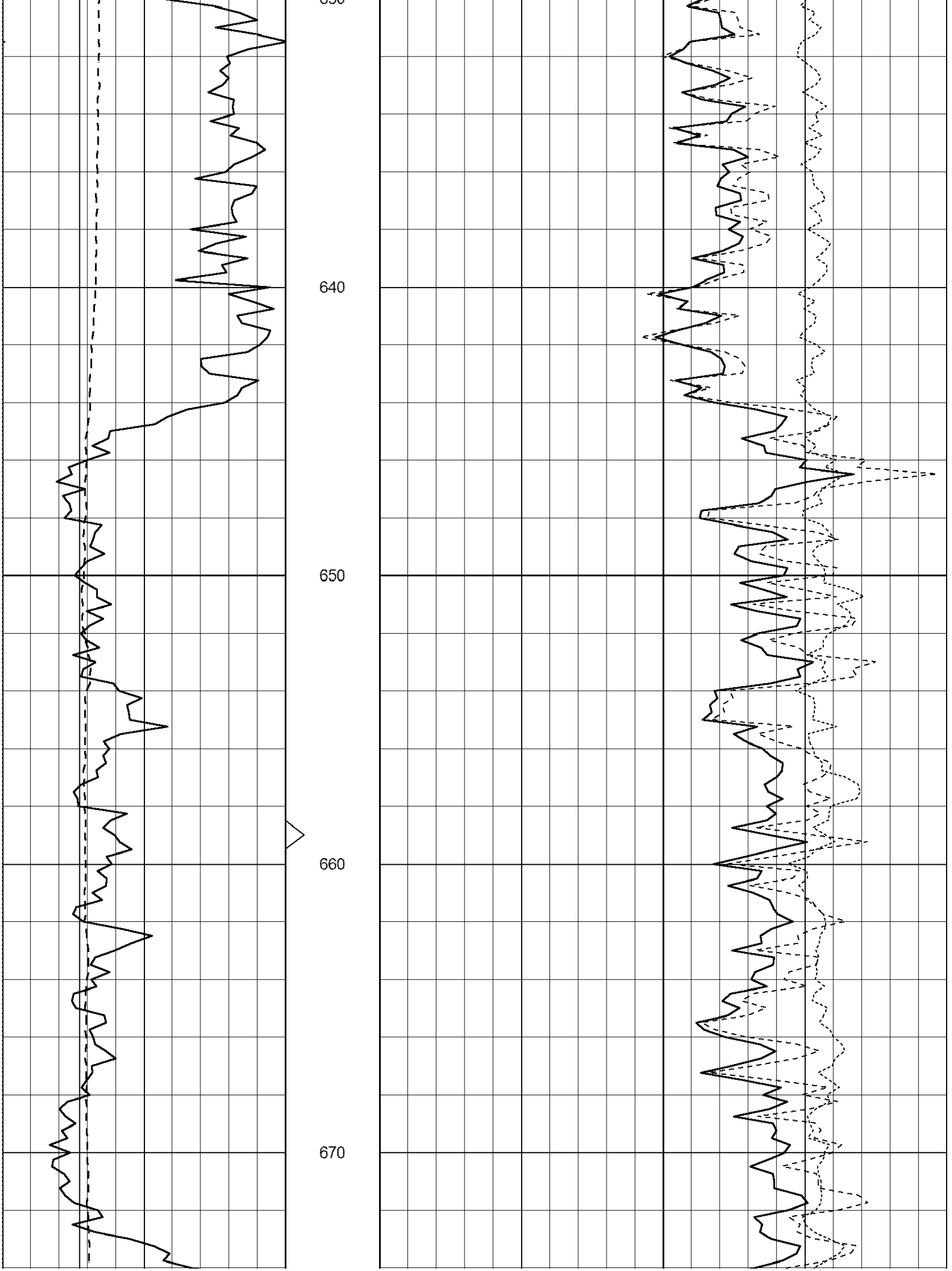
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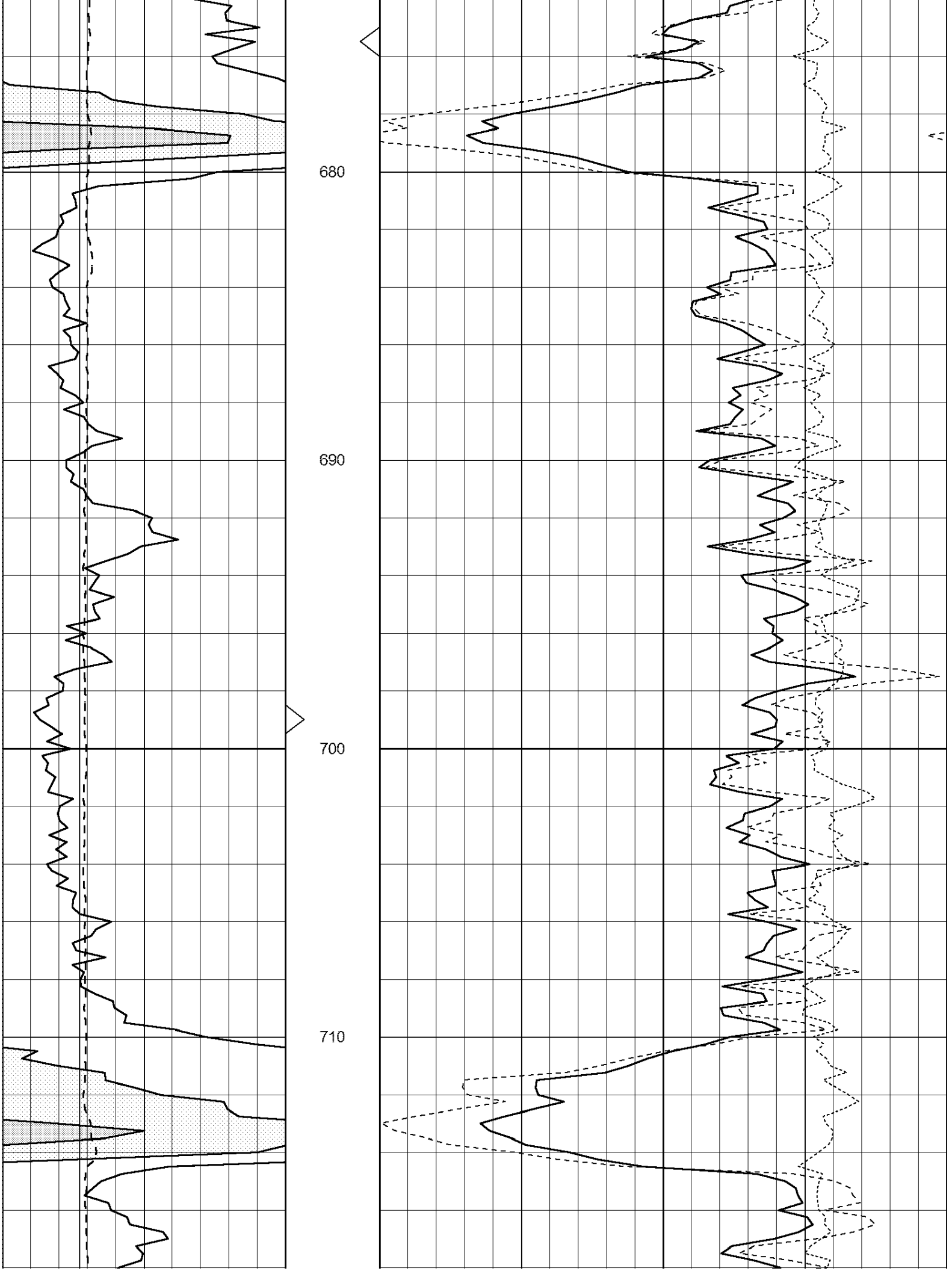
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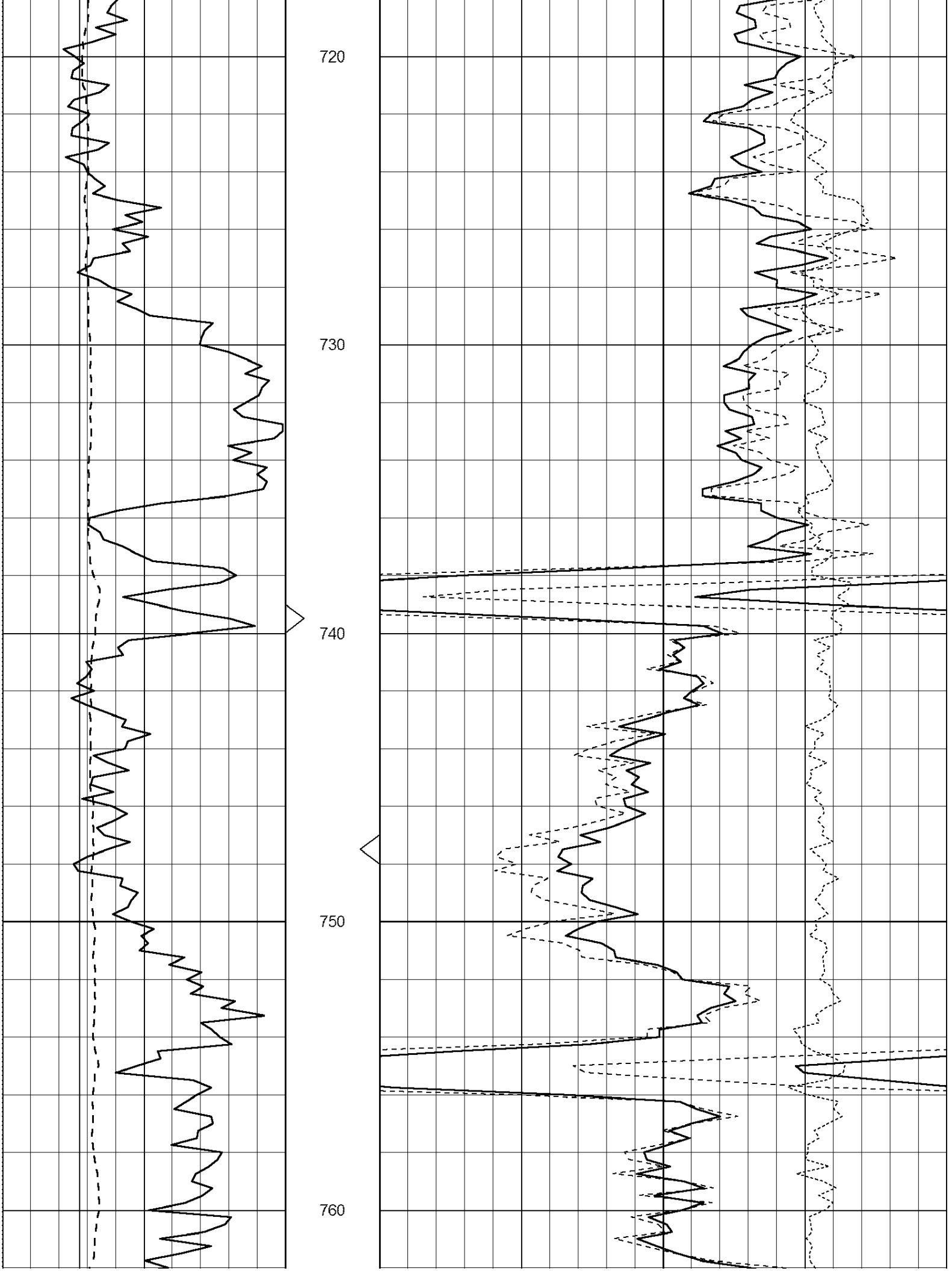
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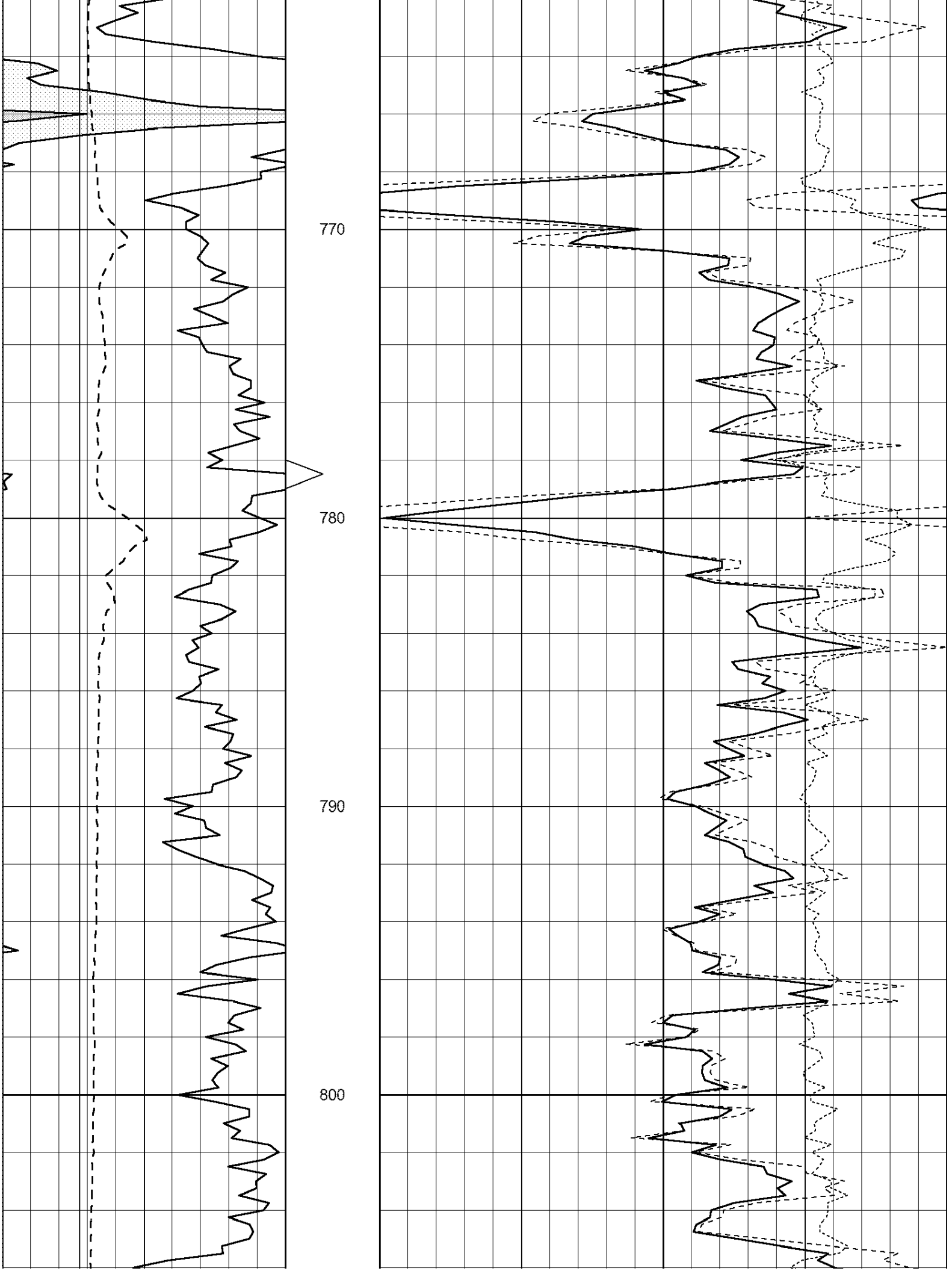
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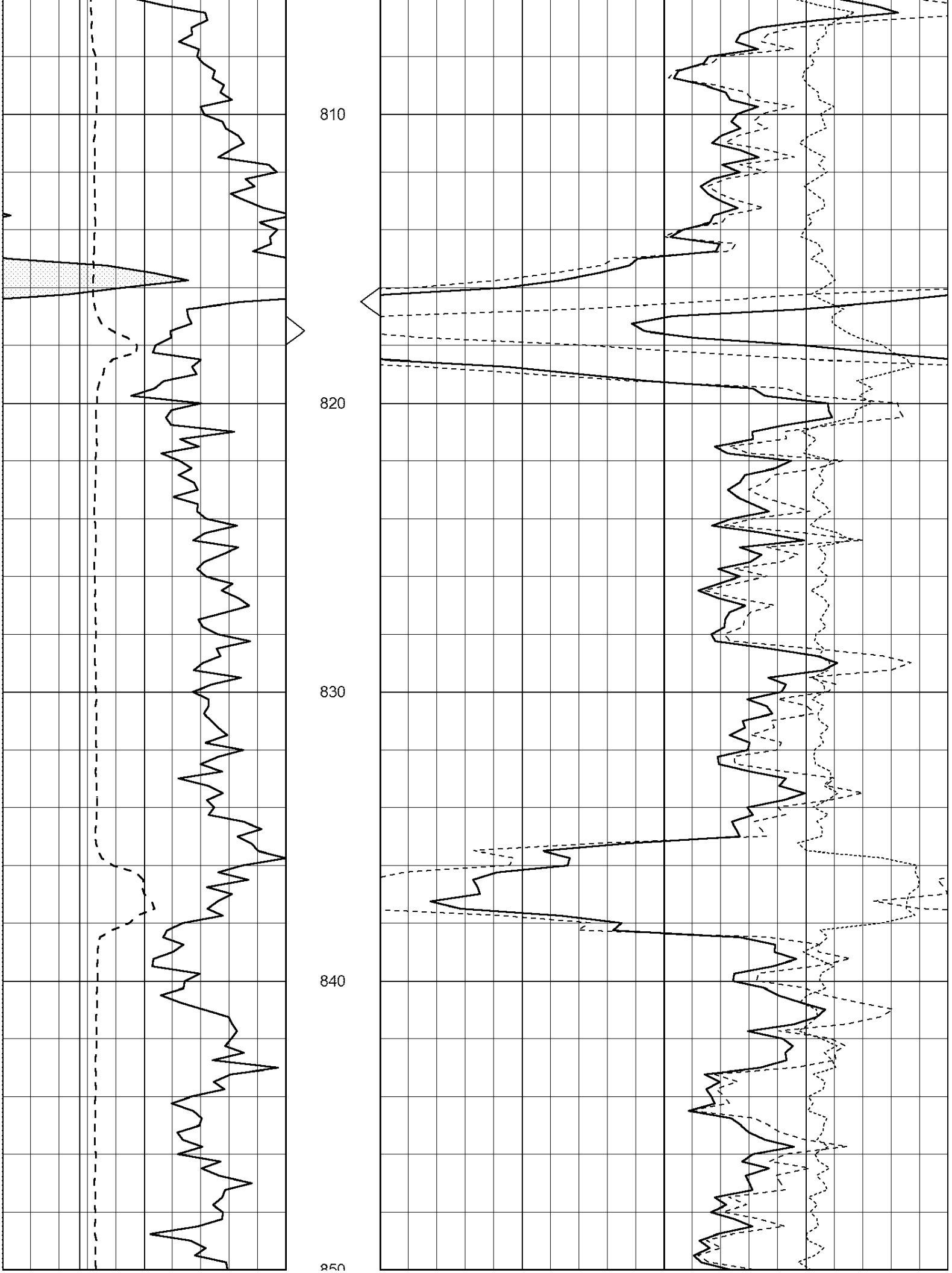
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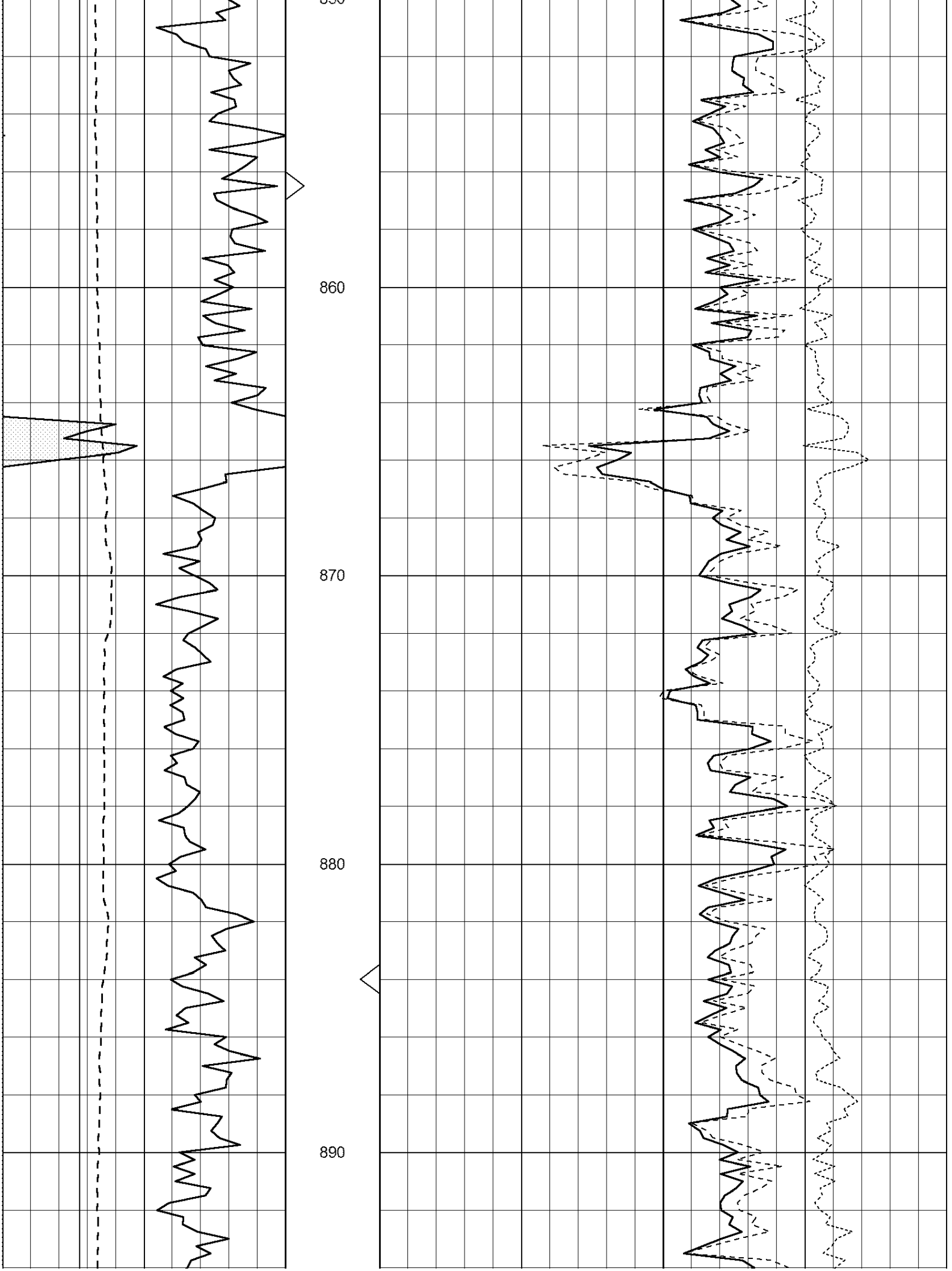
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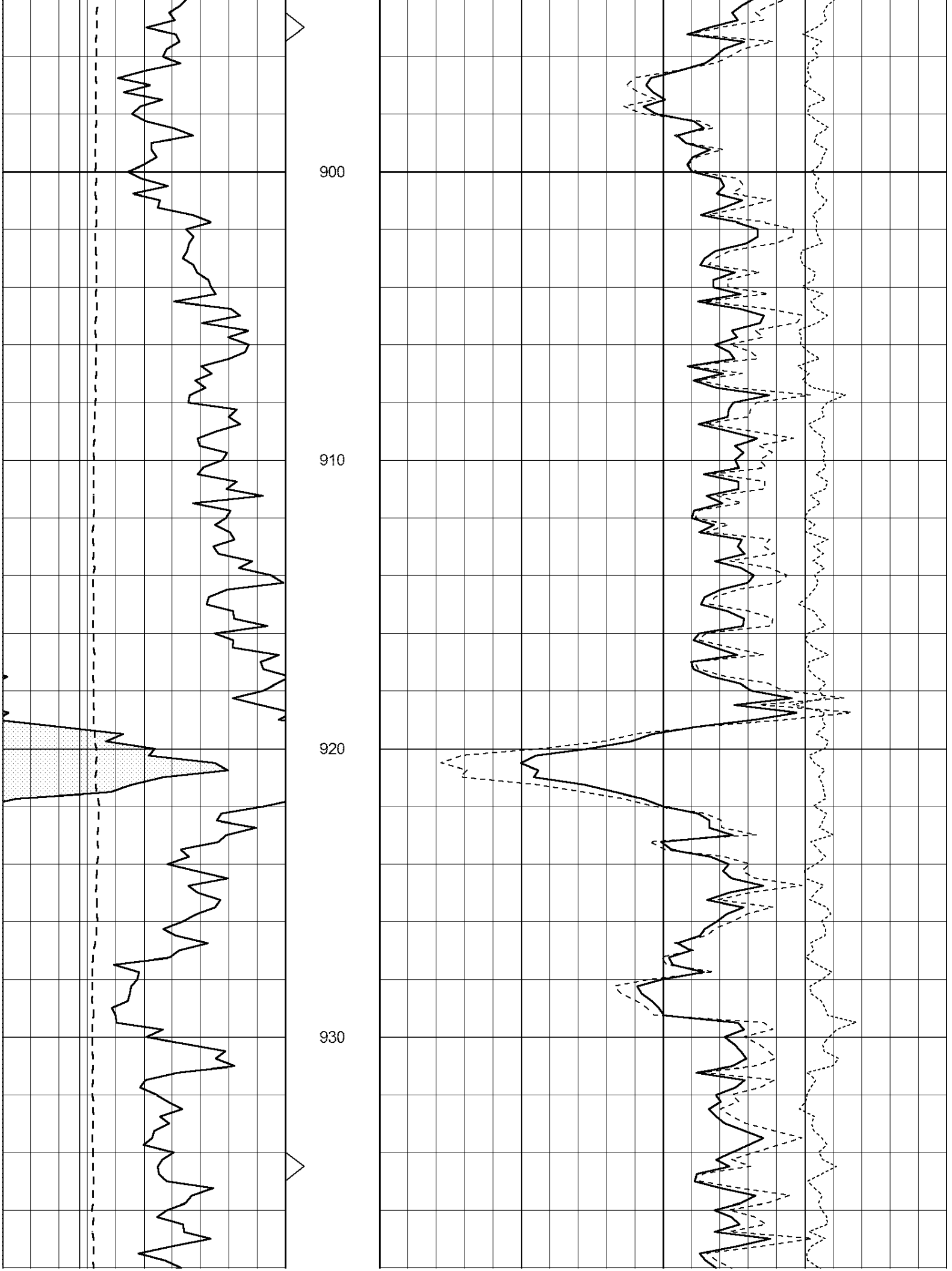
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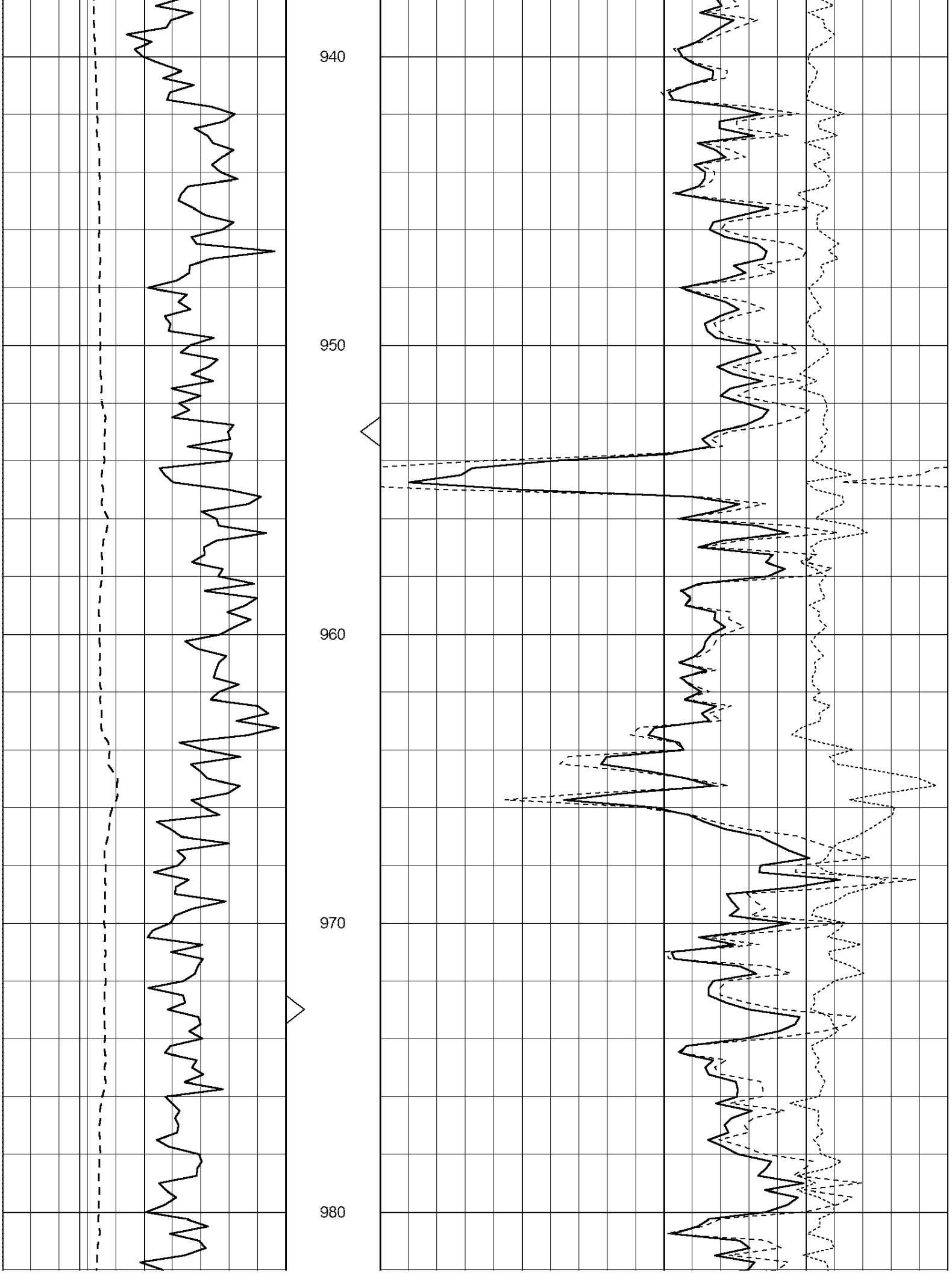
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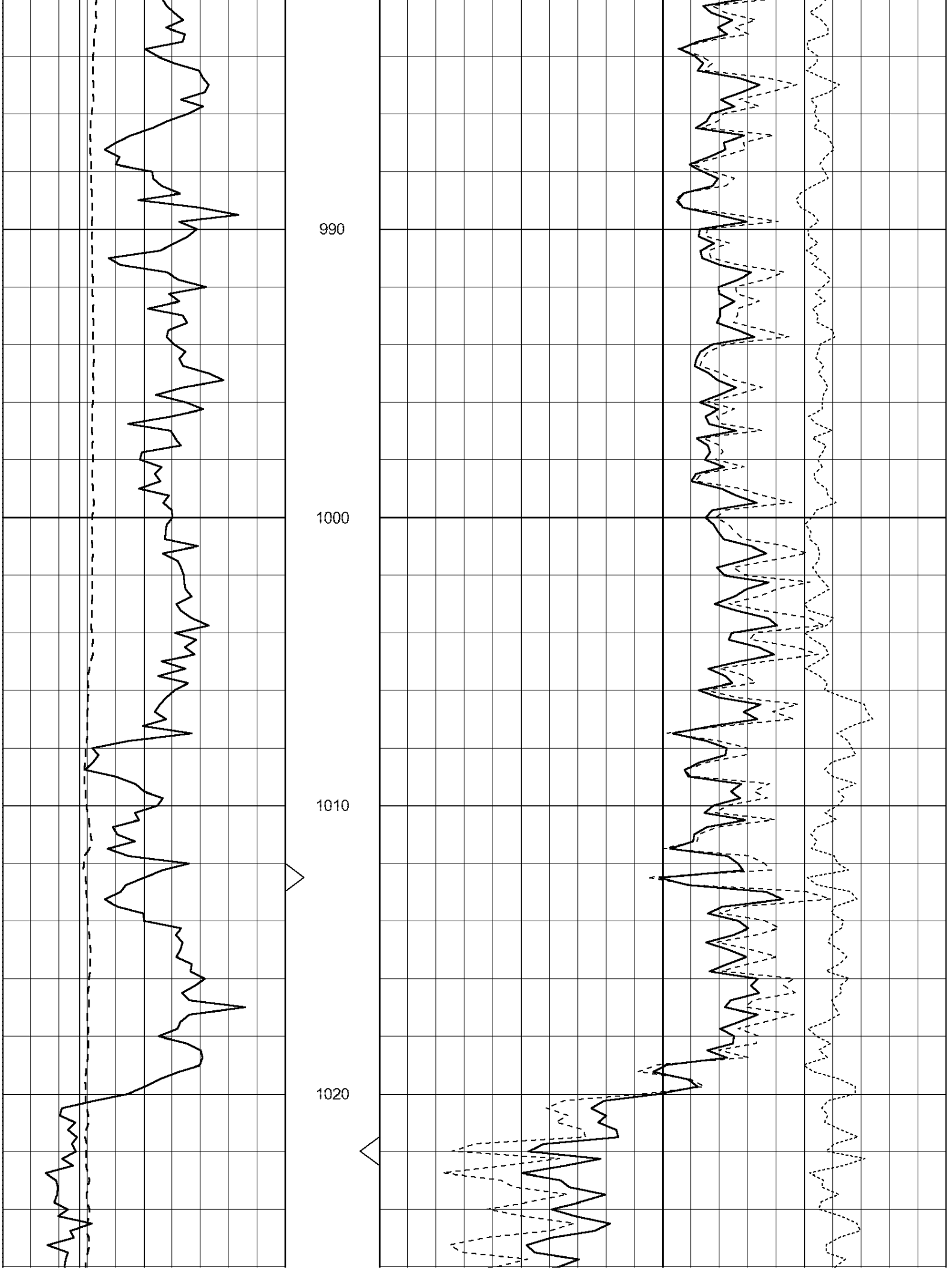
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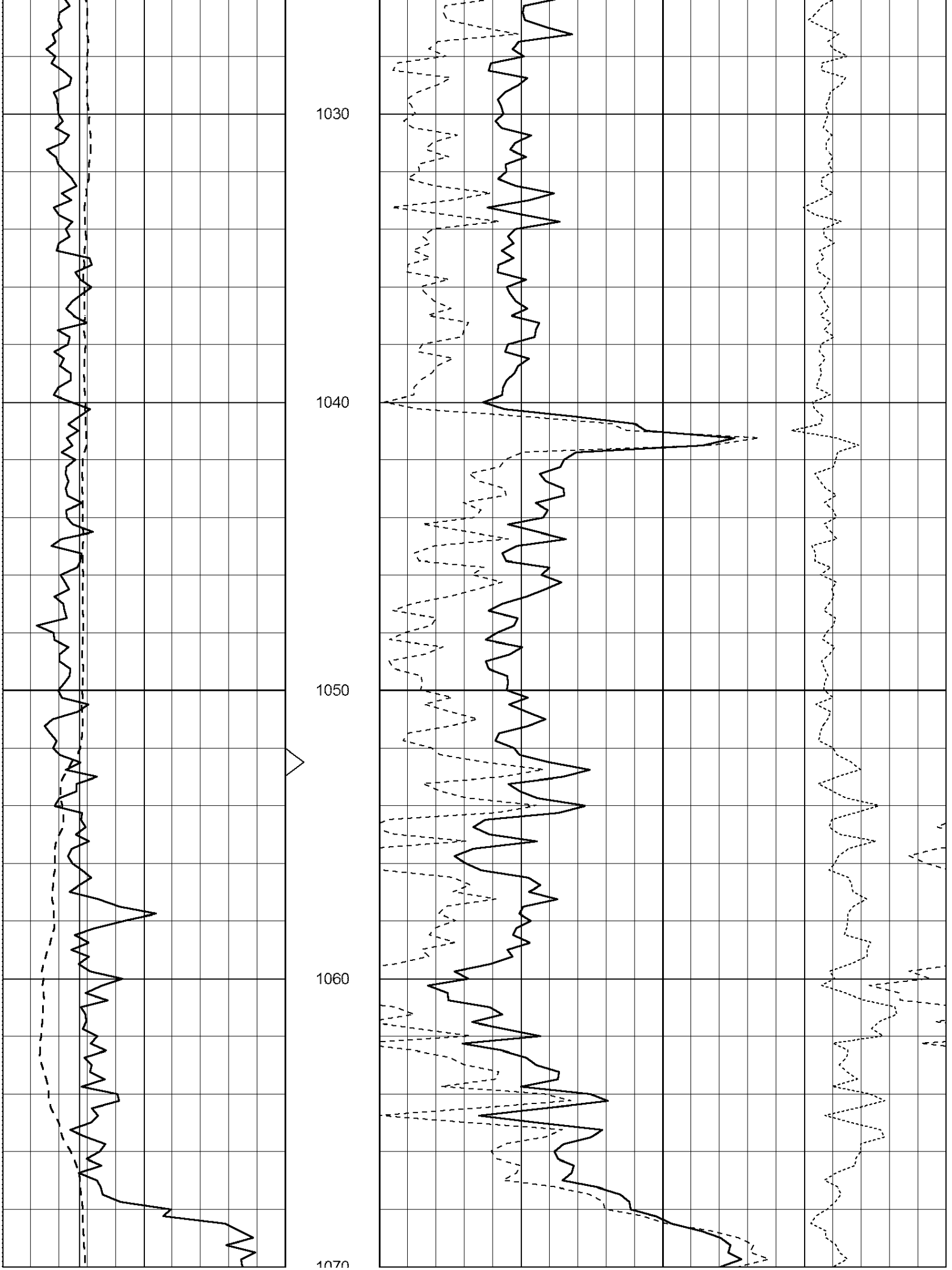
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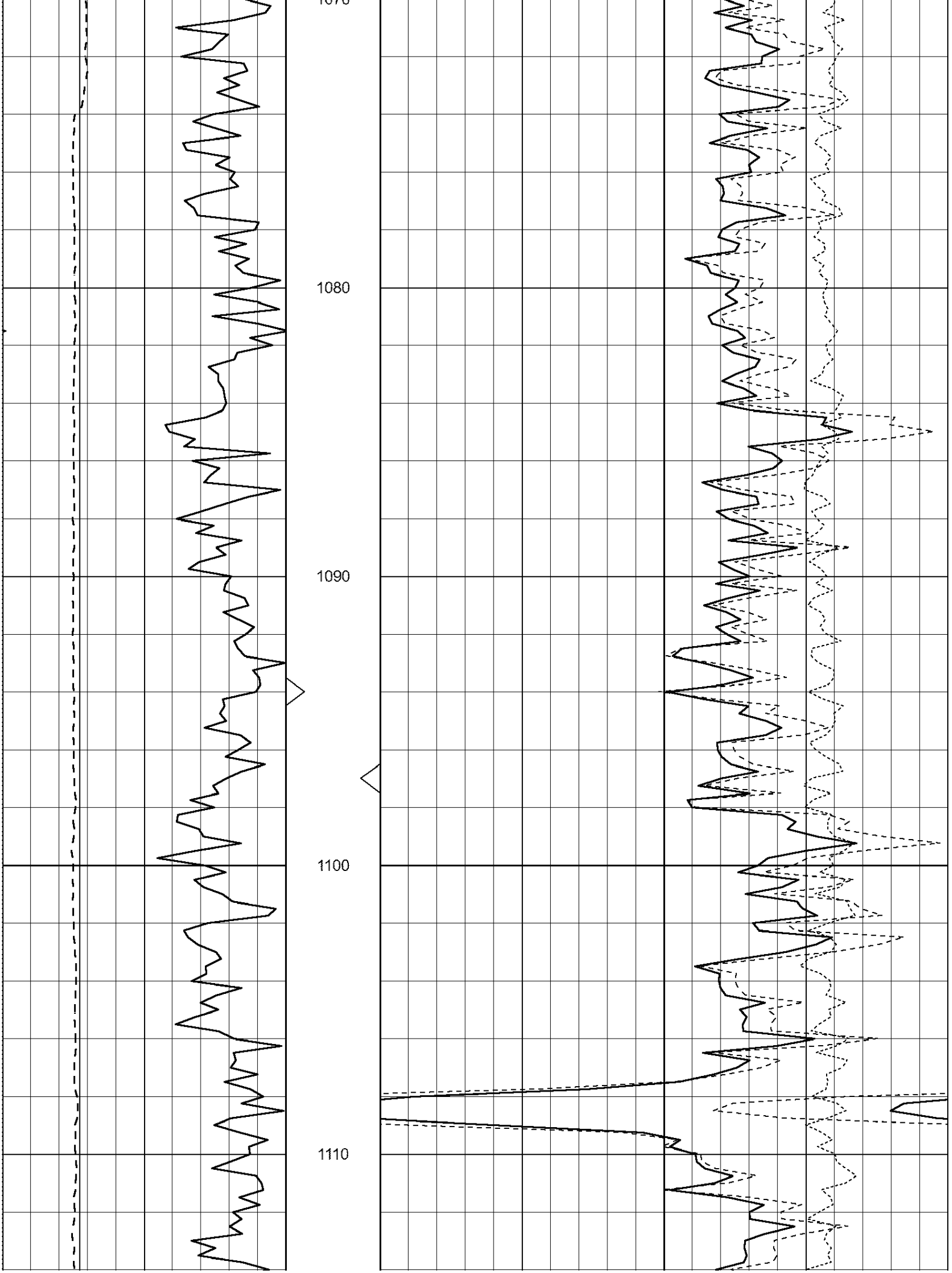
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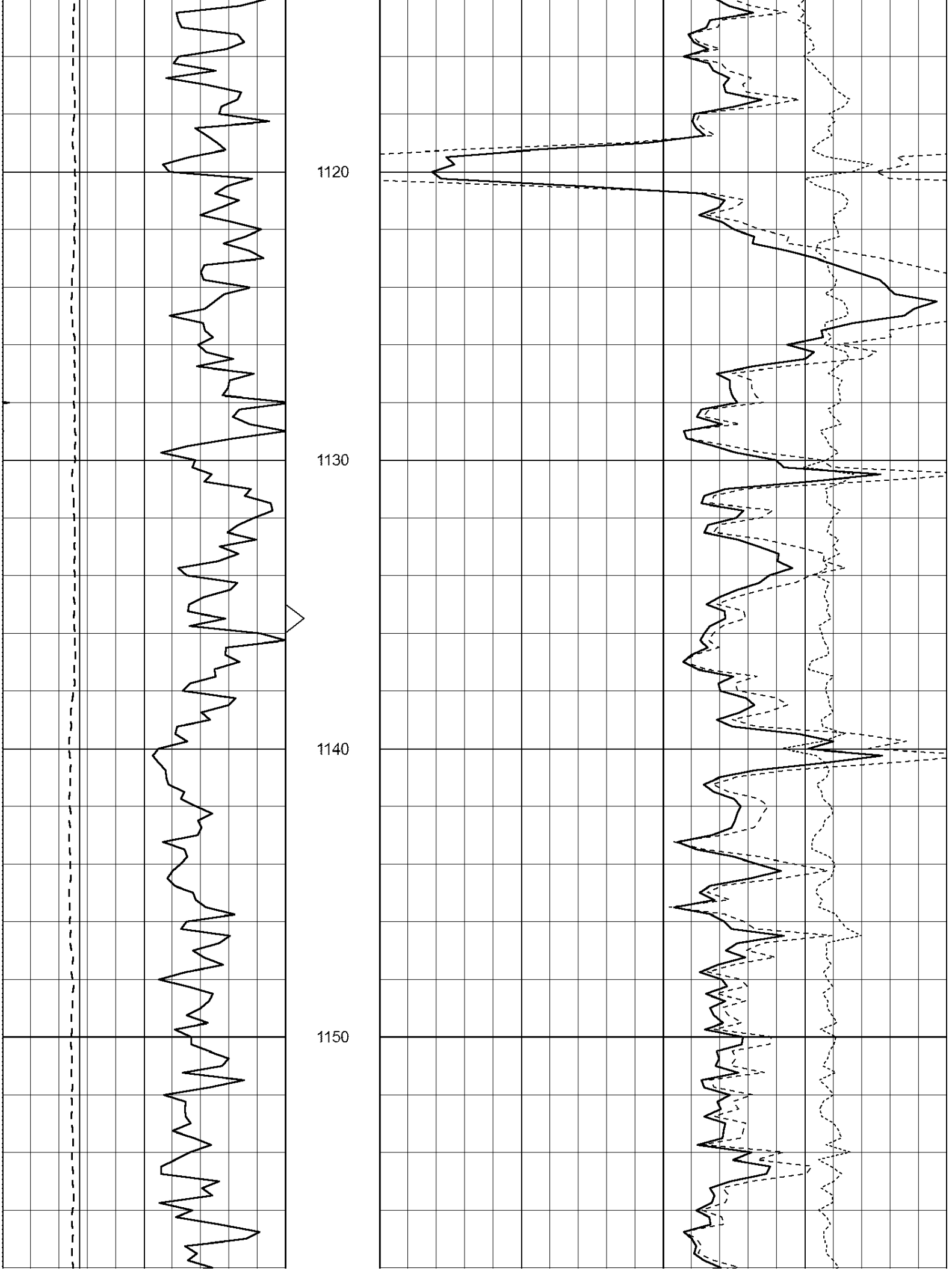
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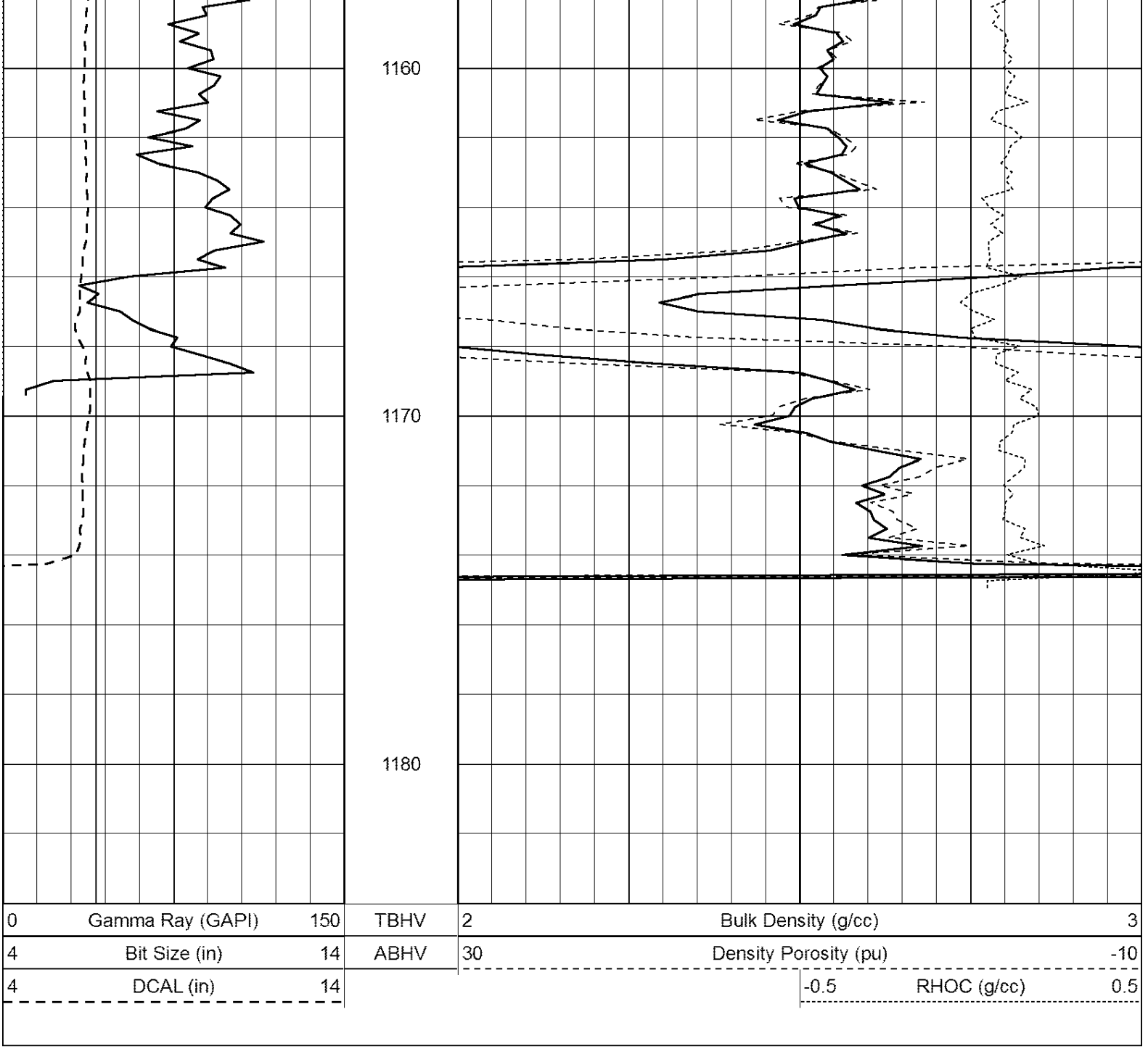
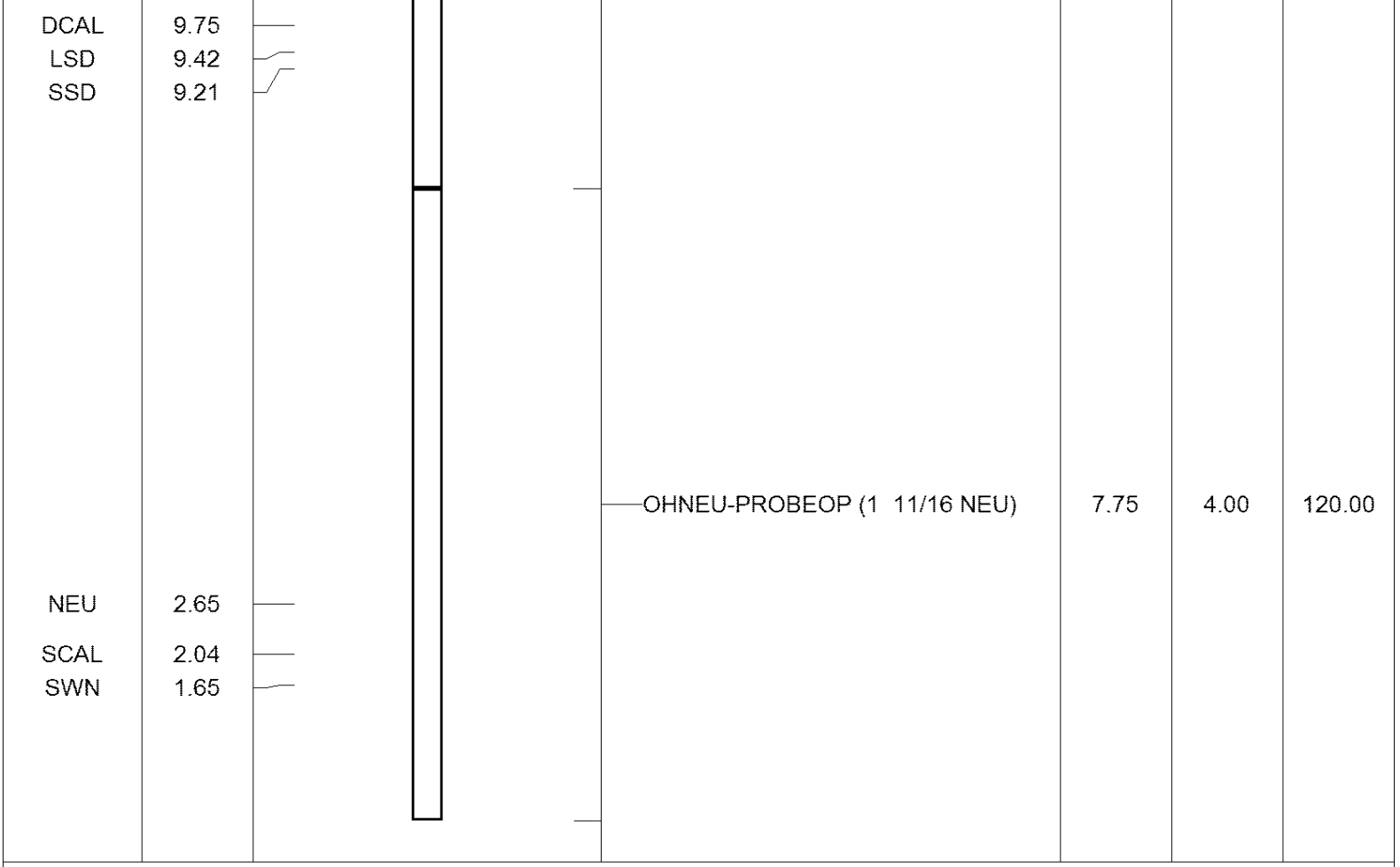


Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
GR	15.00		OHGR-GOI (2226)	2.50	3.50	40.00
			CDL-GOI (2226)	6.00	4.00	150.00



OHNEU-PROBEOP (1 11/16 NEU)	7.75	4.00	120.00

Dataset:	ow1-7798 layne energy.db: field/well/CDL/pass2.8
Total Length:	16.25 ft
Total Weight:	310.00 lb
O.D.	4.00 in