HIGH RESOLUTION COMPENSATED DENSITY SIDEWALL NEUTRON LOG

Company	LAYNE ENERGY OPERATING, LLC
Well	FOWLER # 3-32
Field	CHEROKEE BASIN COAL
County	MONTGOMERY
State	KANSAS

Company LAYNE ENERGY OPERATING, LLC
Well FOWLER # 3-32
Field CHEROKEE BASIN COAL
County MONTGOMERY State KANSAS

Location: API # : 15-125-32130-0000
E/2 NW NW NE
330' FNL & 3115' FWL
SEC 32 TWP 31S RGE 14E

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	9-8-2011			
Run Number	ONE			
Depth Driller	1513'			
Depth Logger	1513'			
Bottom Logged Interval	1511'			
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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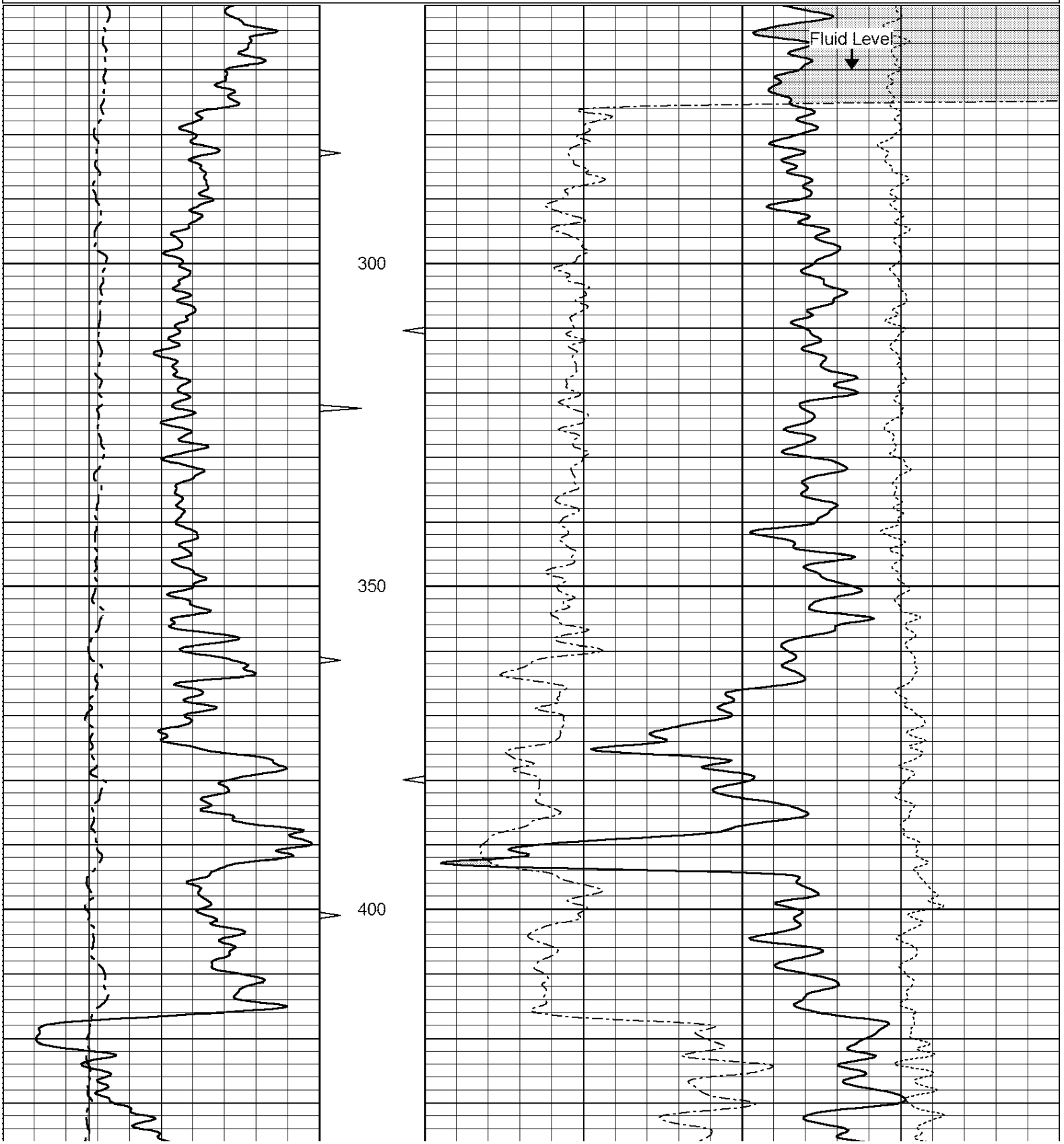
Comments

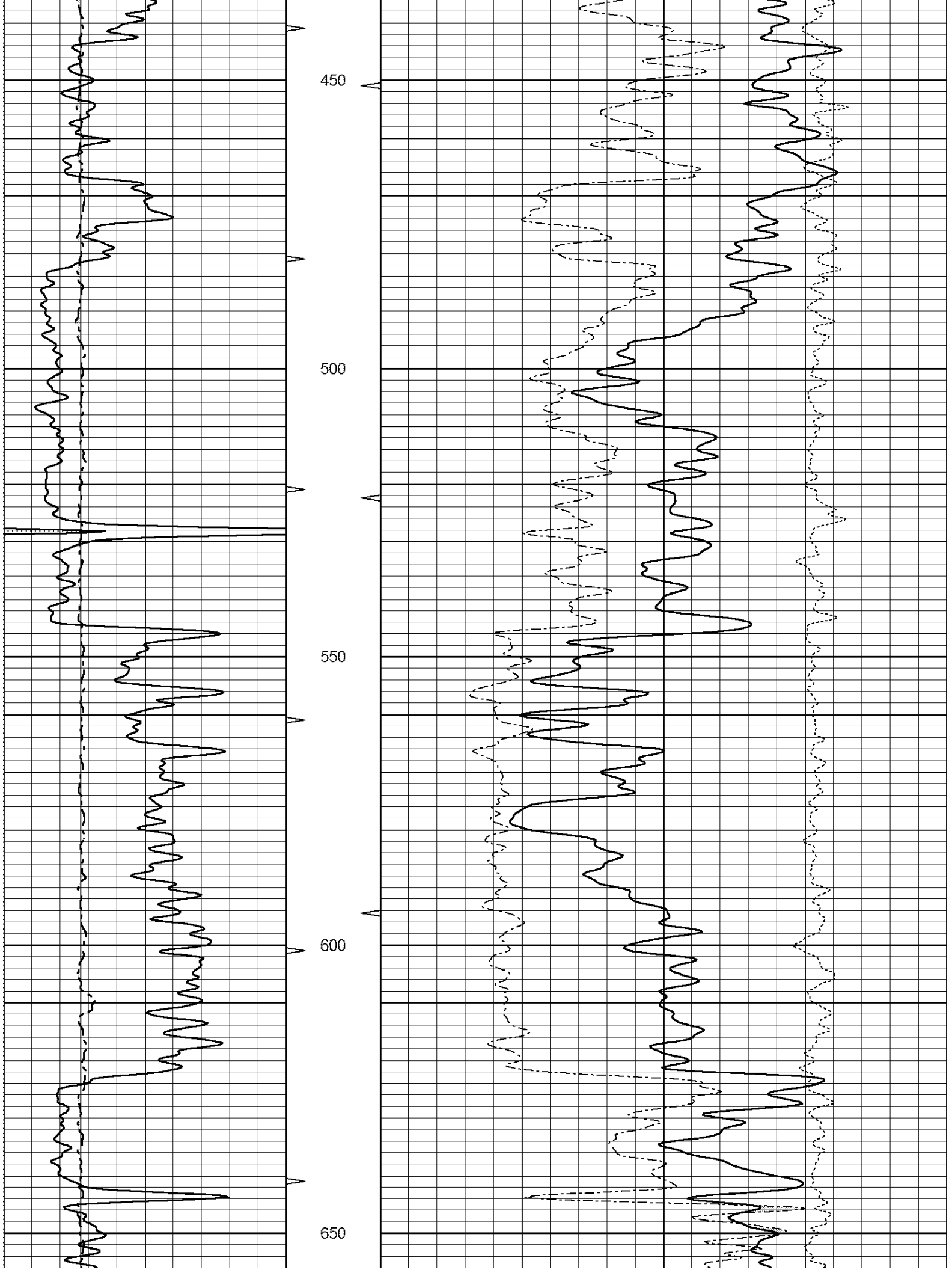
OW1-7847
MATRIX LIMSTONE 2.68 G/CC
ABHV COMPUTED WITH 4 1/2 " CASING

5" CDL/N 2.68 SECTION

Database File:	ow1-7847 layne energy.db
Dataset Pathname:	CDL/pass2.4
Presentation Format:	_neu4
Dataset Creation:	Thu Sep 08 14:09:10 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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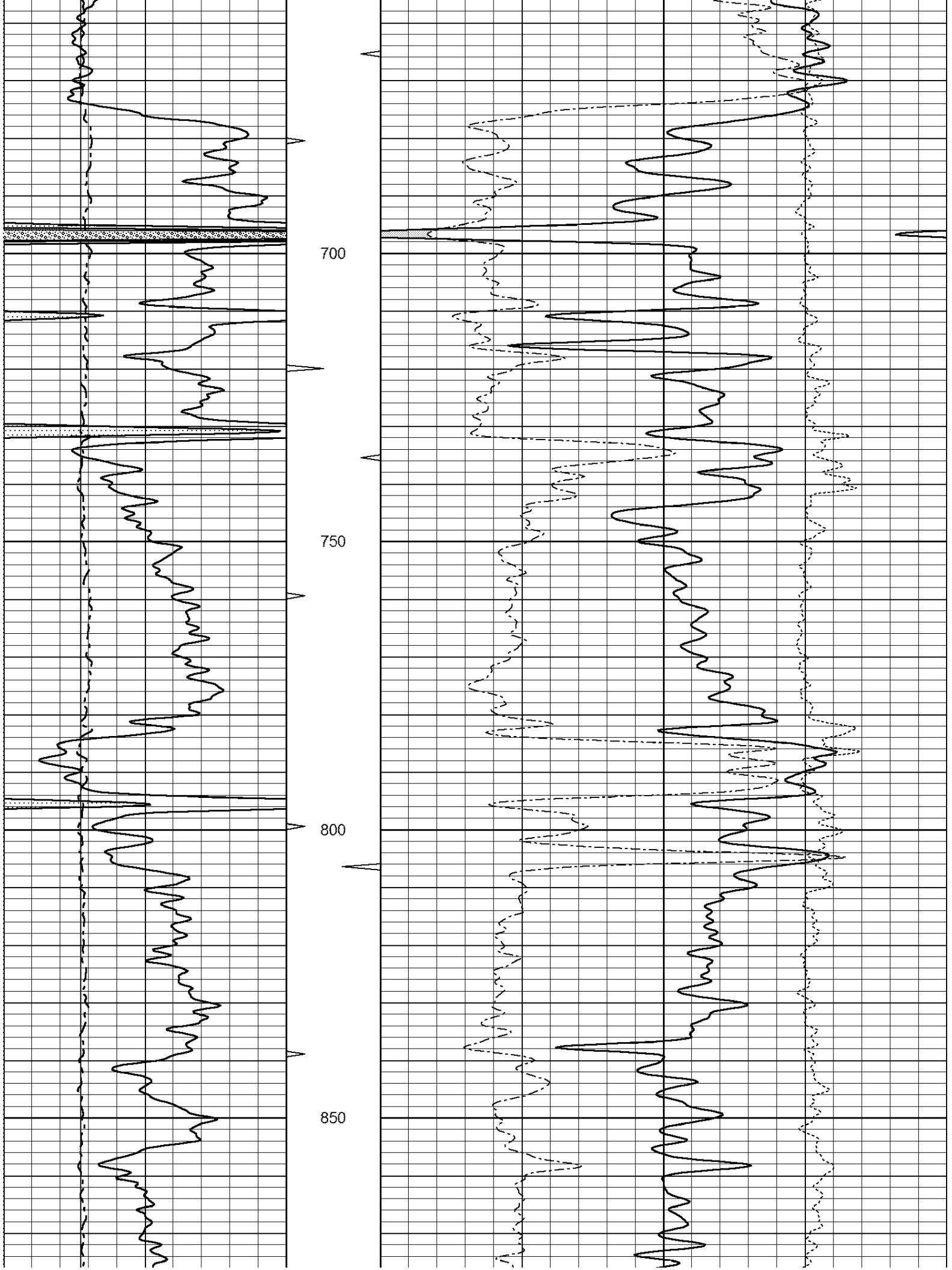
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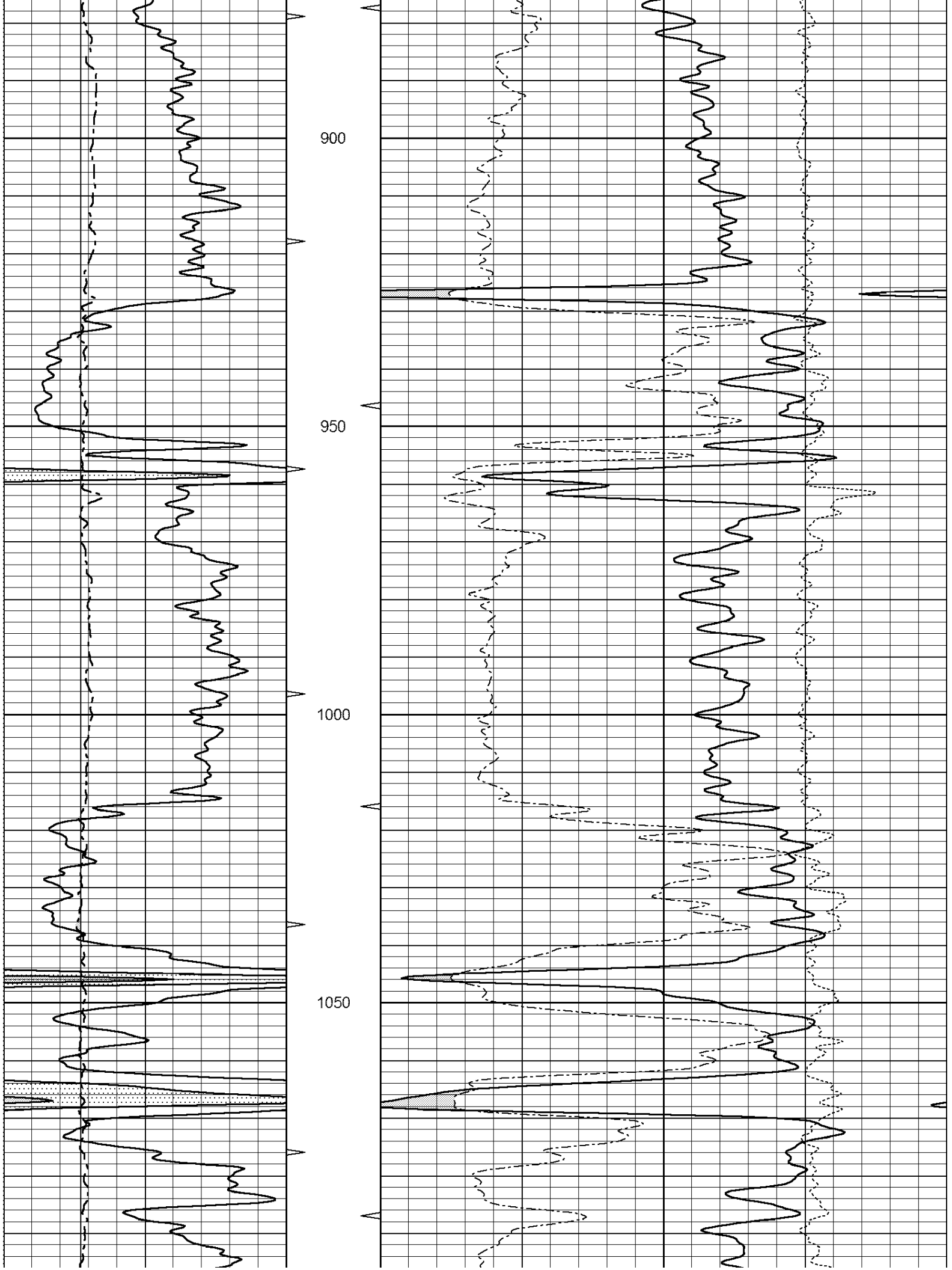
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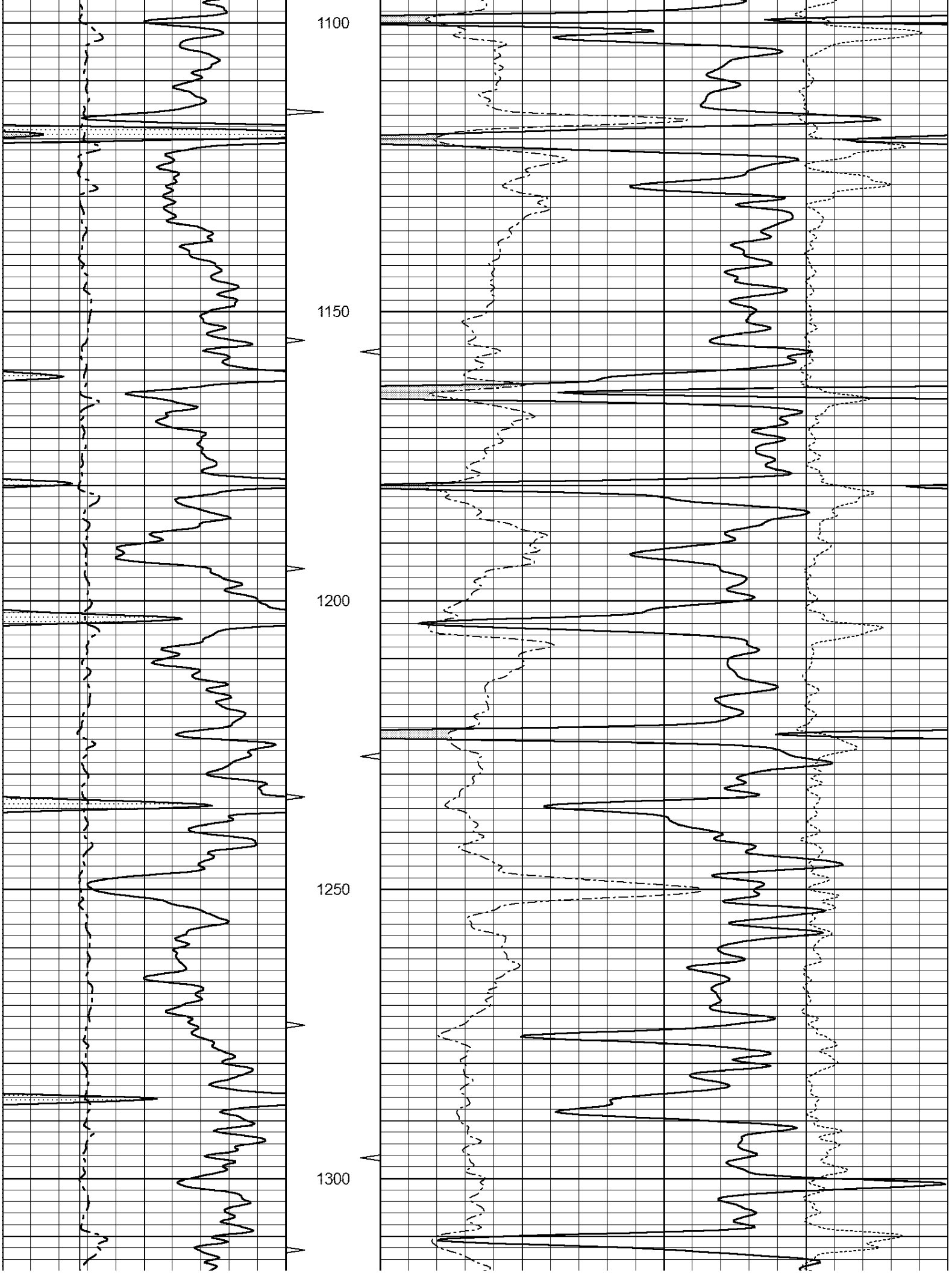
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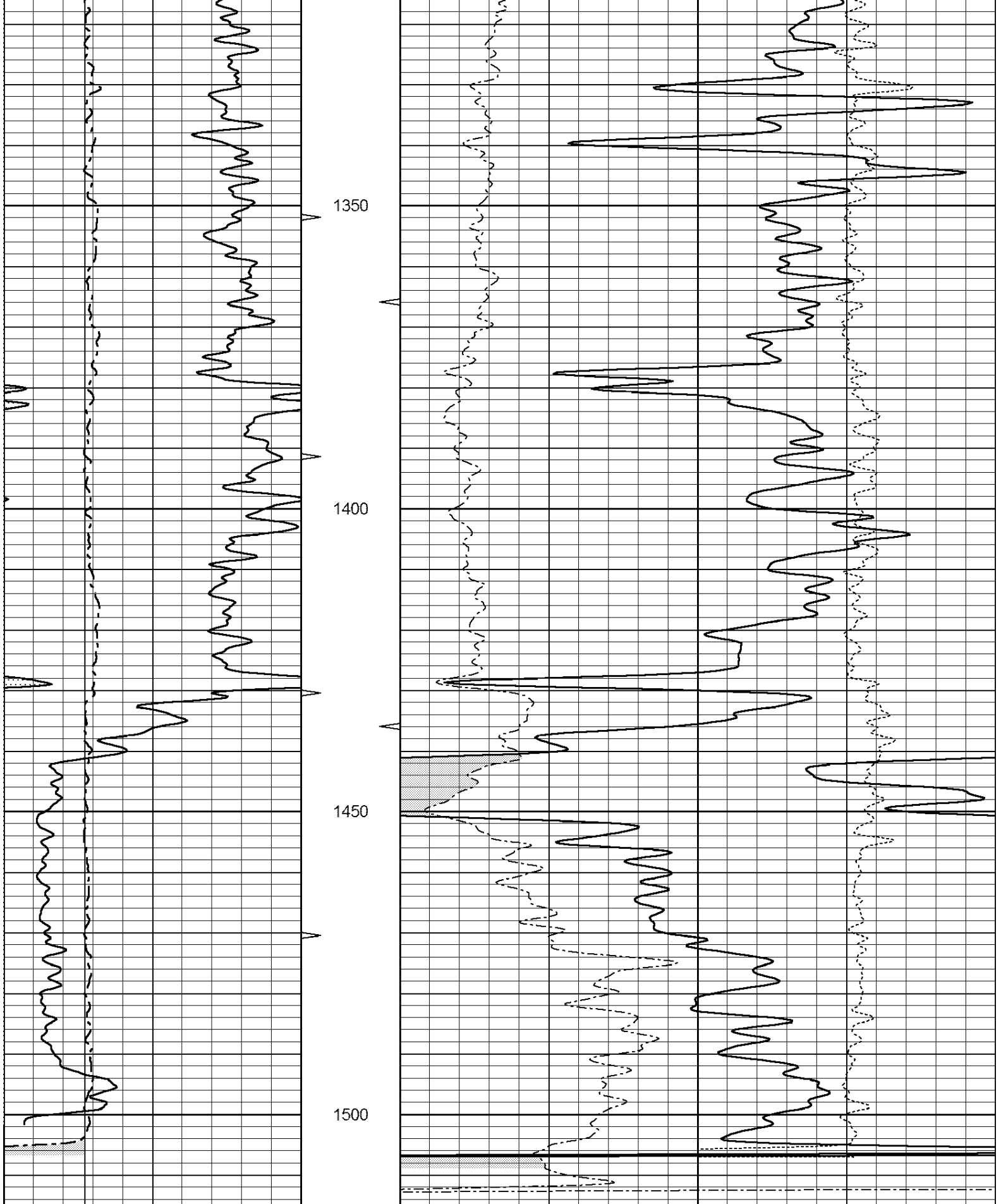
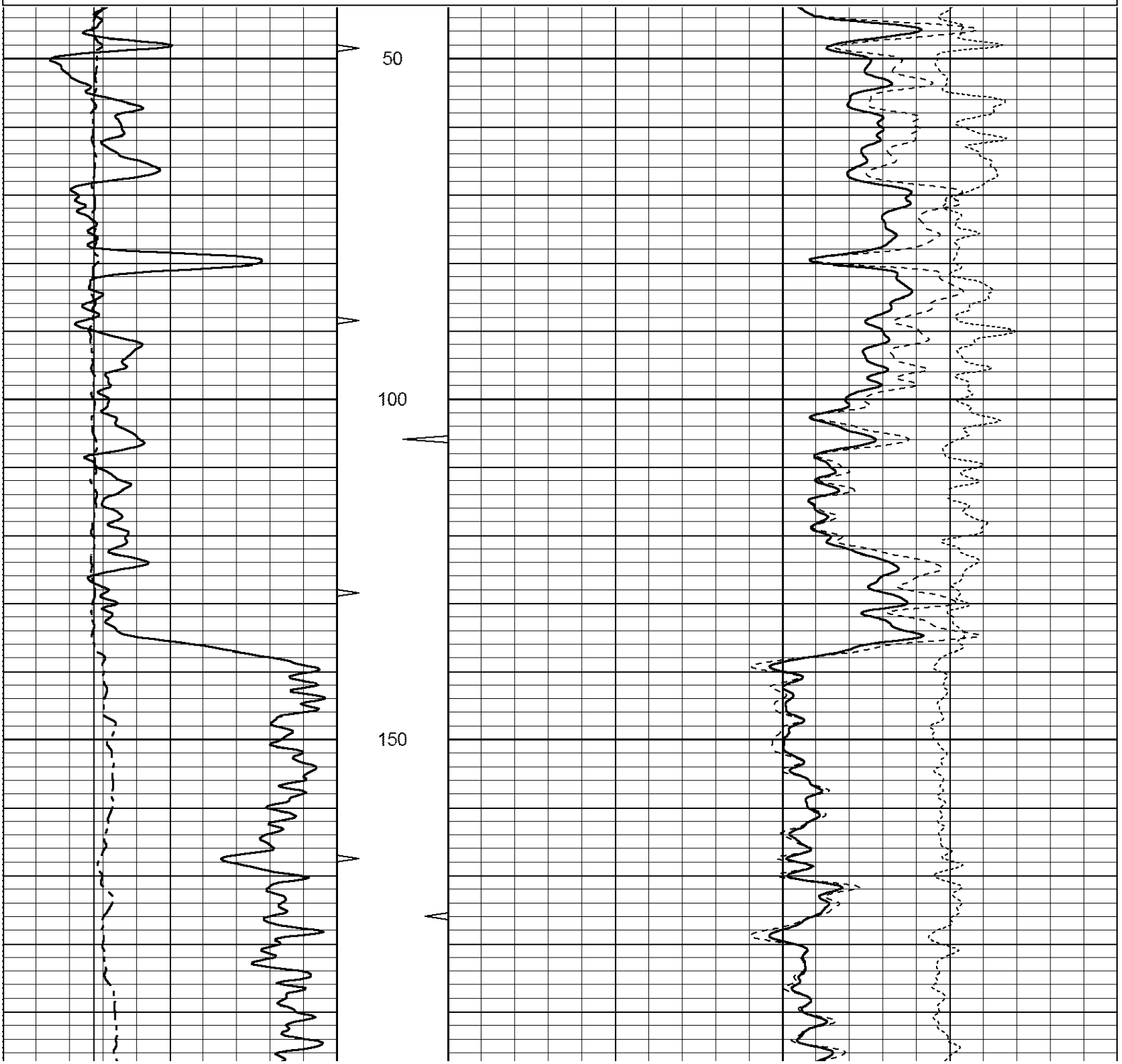


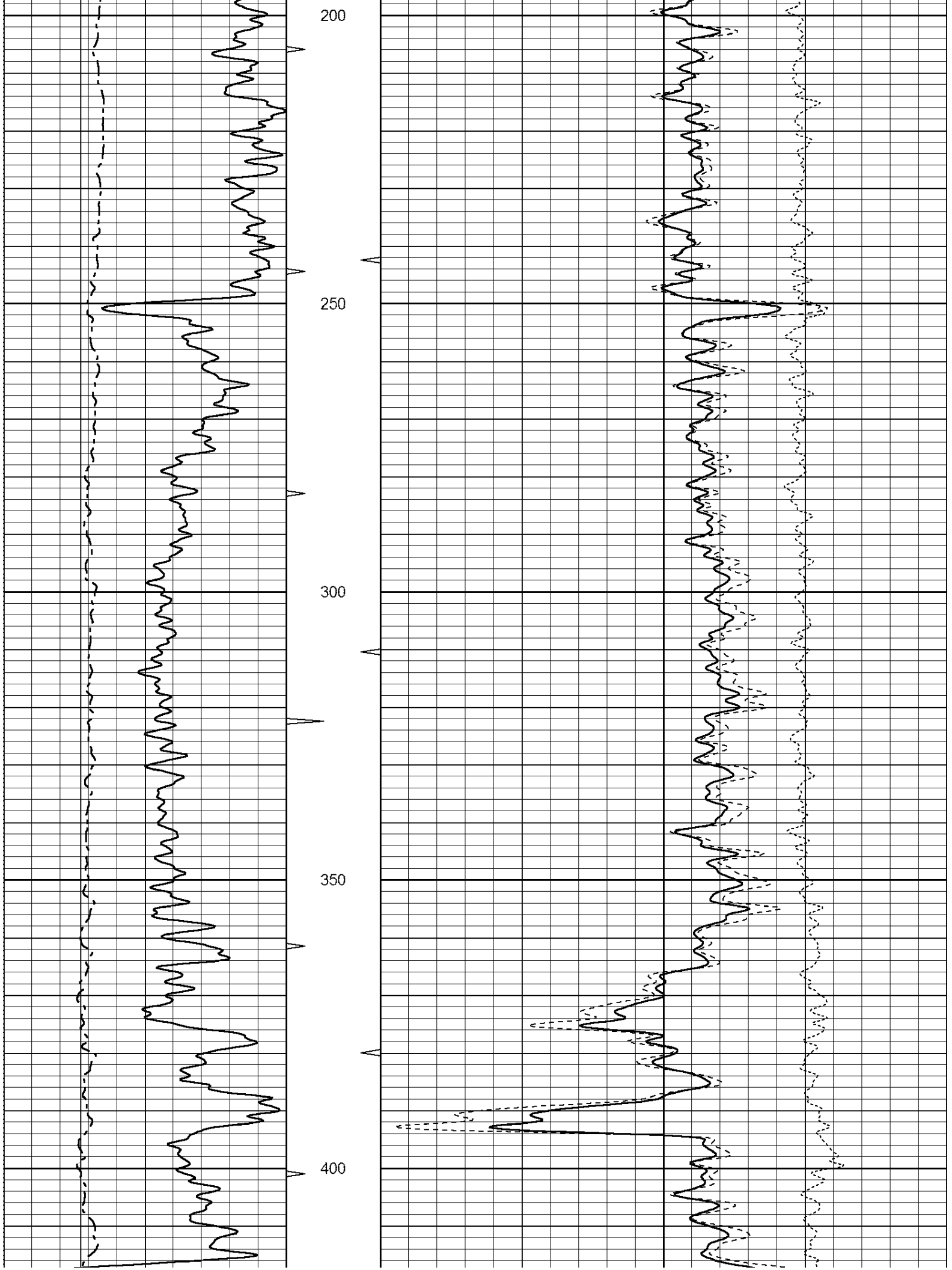
0	Gamma Ray (GAPI)	150	TBHV	30	Density Porosity (pu)	-10
4	Bit Size (in)	14	ABHV	30	Neutron Porosity (pu)	-10
4	Density Caliper (in)	14		-0.5	RHOC (g/cc)	0.5

5" CDL 2.68 SECTION

Database File:	ow1-7847 layne energy.db
Dataset Pathname:	CDL/pass2.5
Presentation Format:	bulk4
Dataset Creation:	Thu Sep 08 14:09:22 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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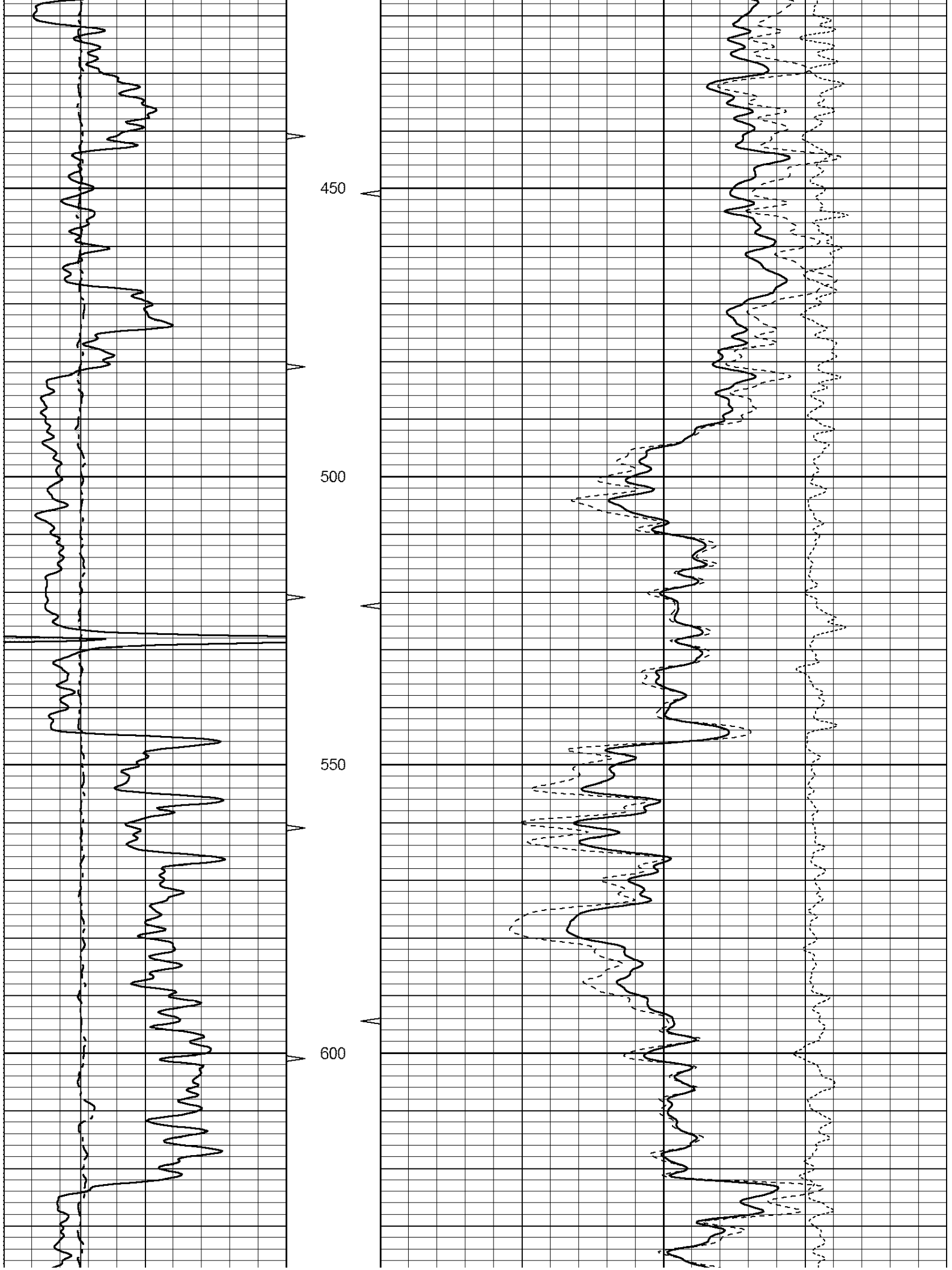
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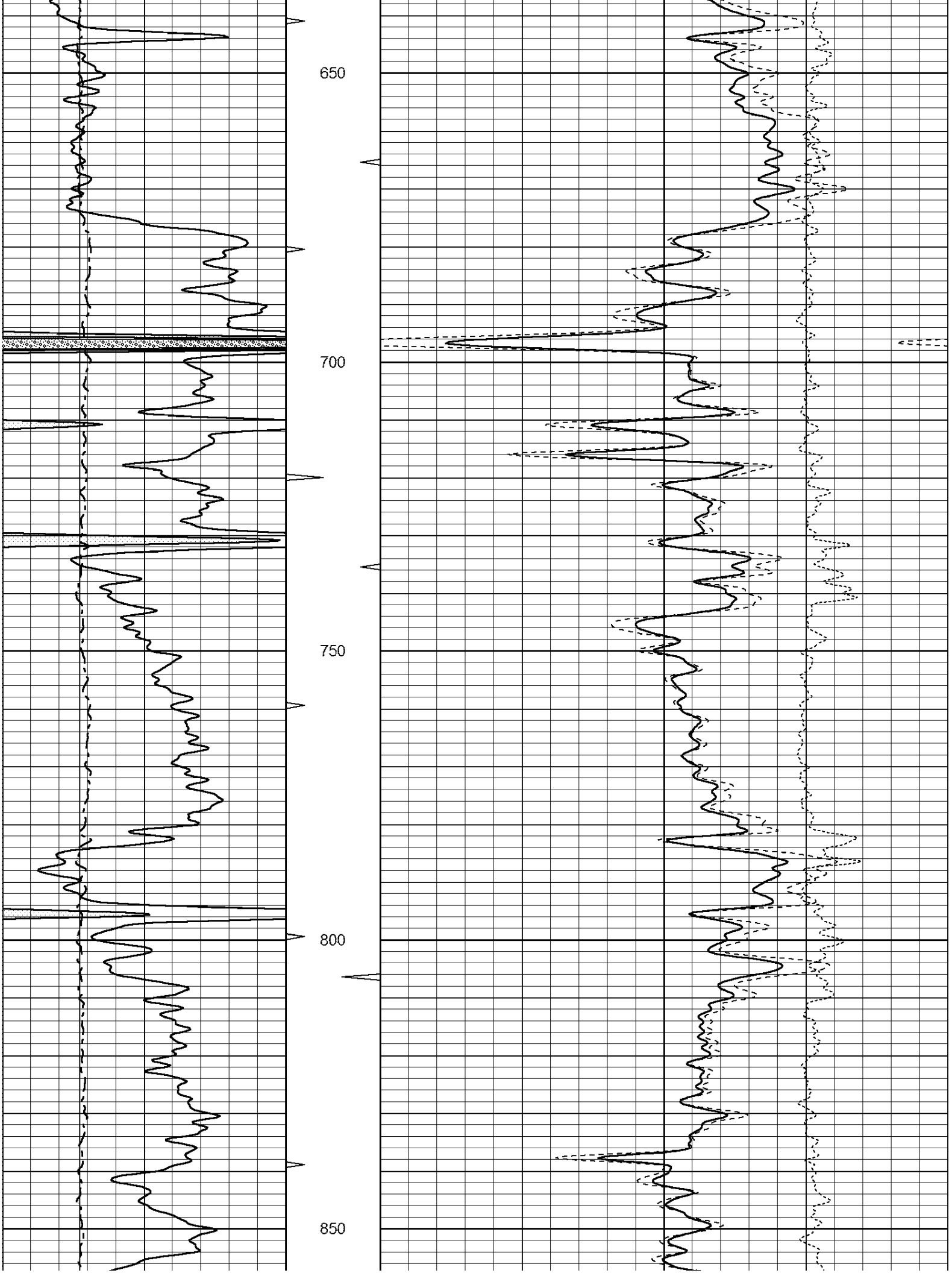
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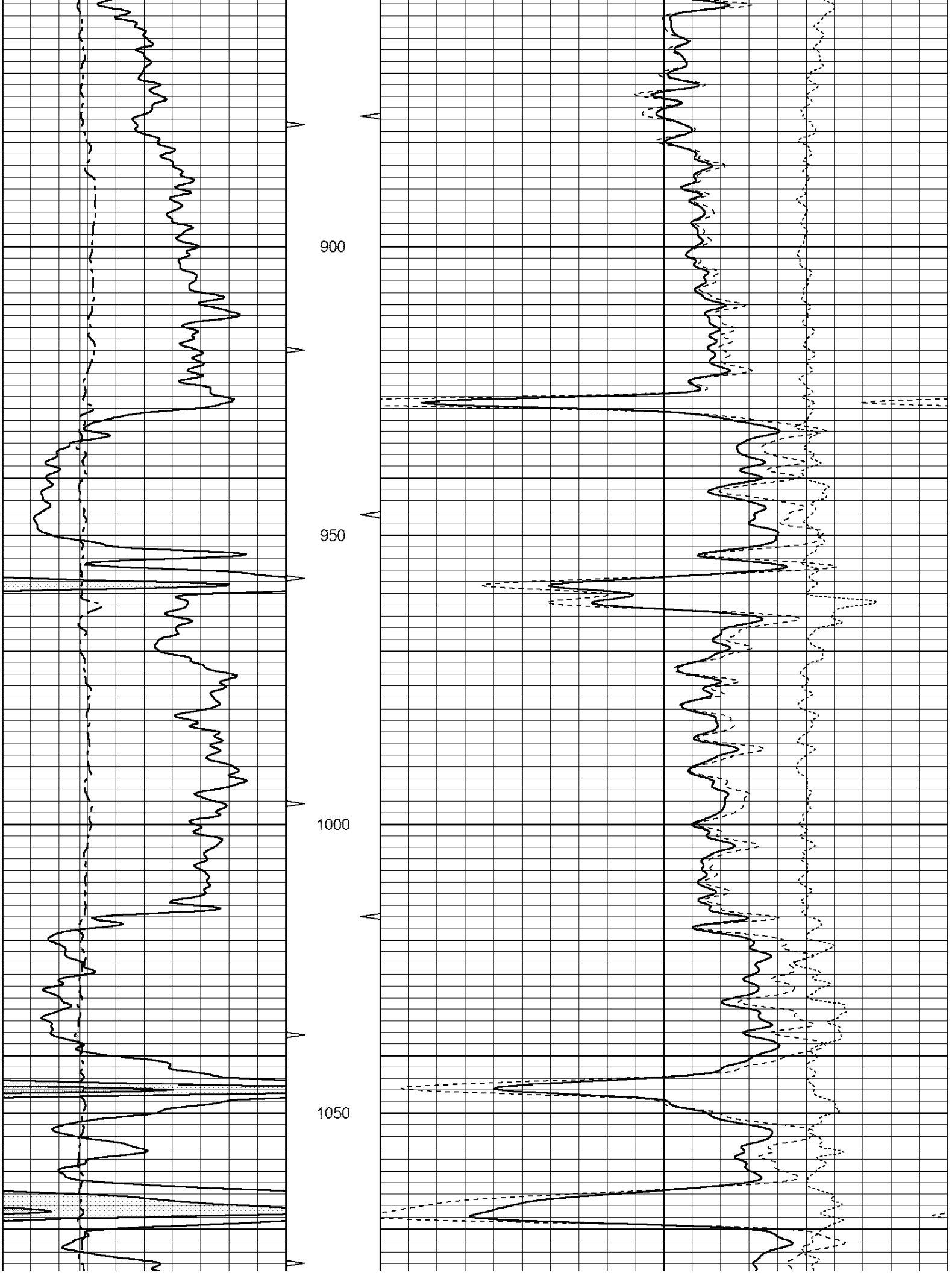
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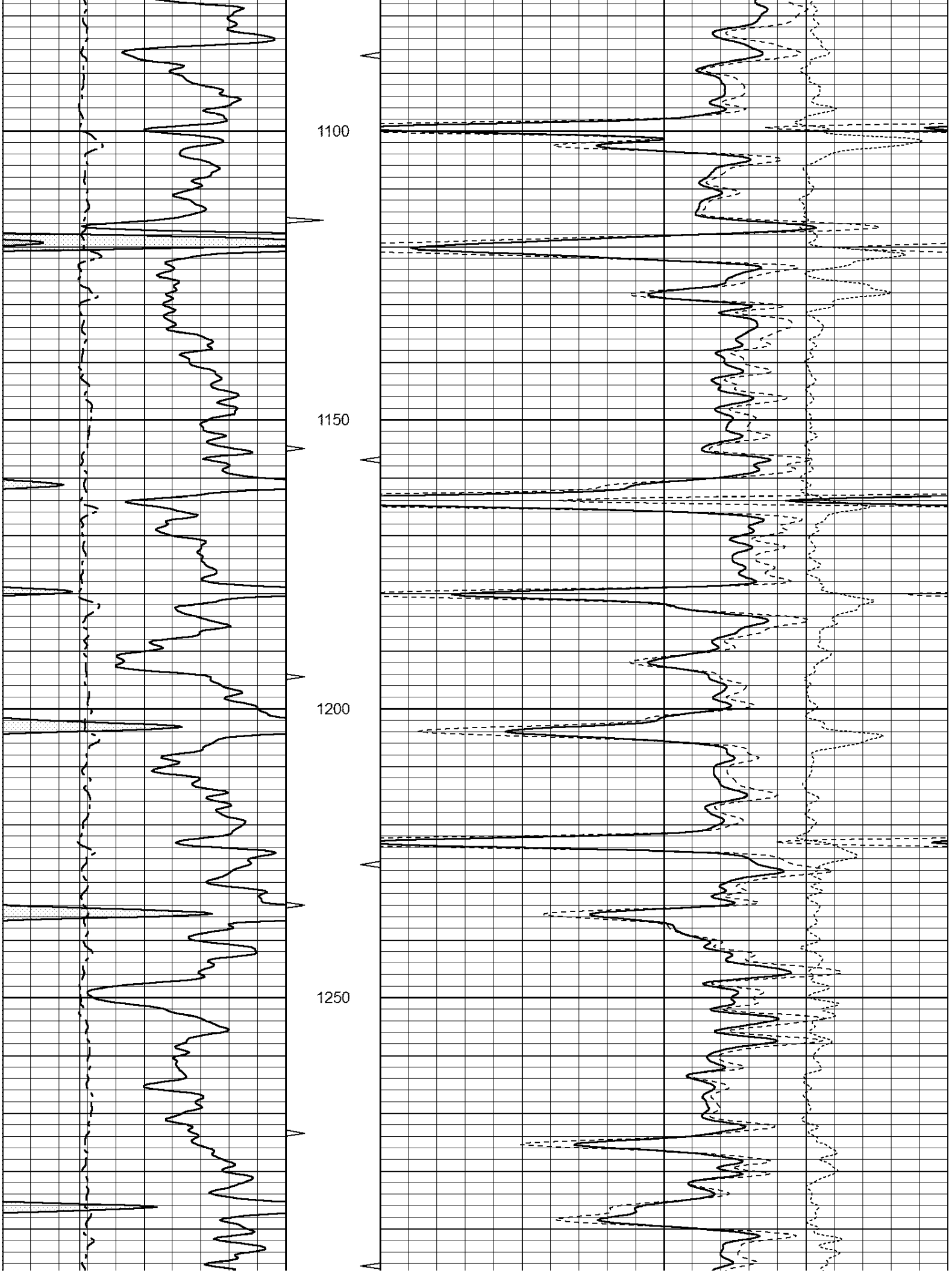
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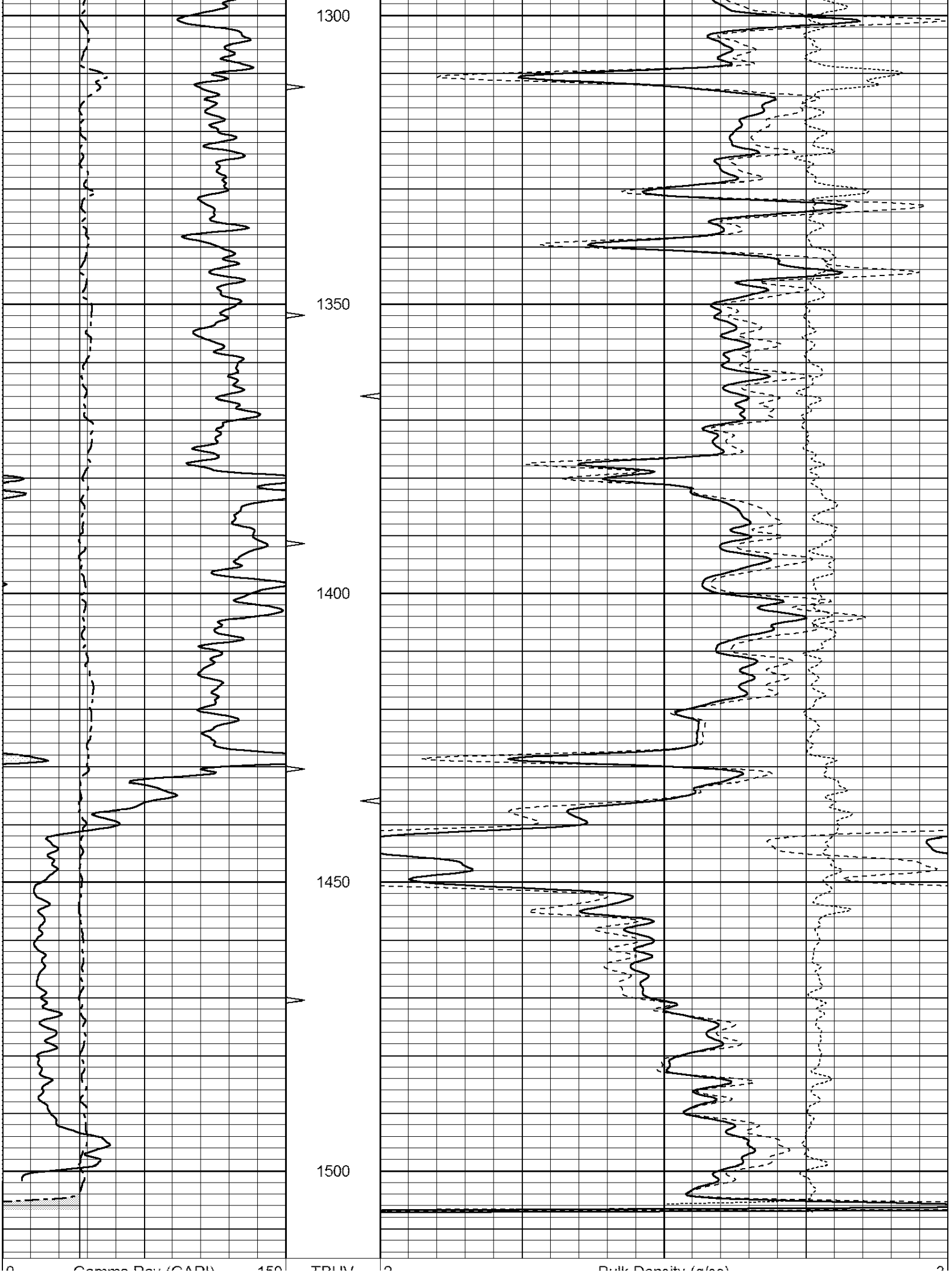
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1350
1400
1450
1500
0
Gamma Ray (GAPI)
150
TRUV
2
Bulk Density (g/cc)
3

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

25" HR CDL 2.68 SECTION

Database File:	ow1-7847 layne energy.db
Dataset Pathname:	CDL/pass2.6
Presentation Format:	bulk4hr
Dataset Creation:	Thu Sep 08 14:09:37 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
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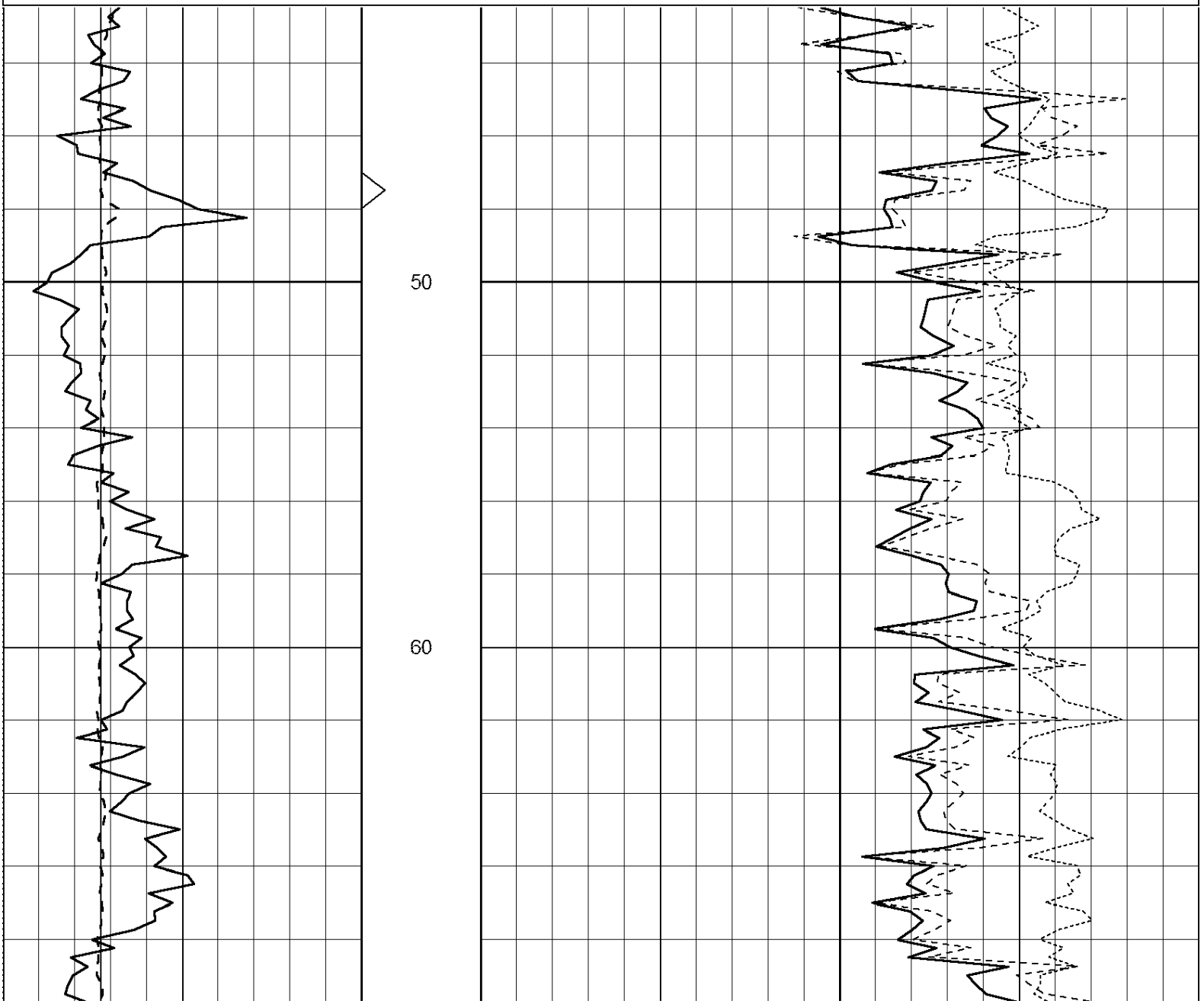
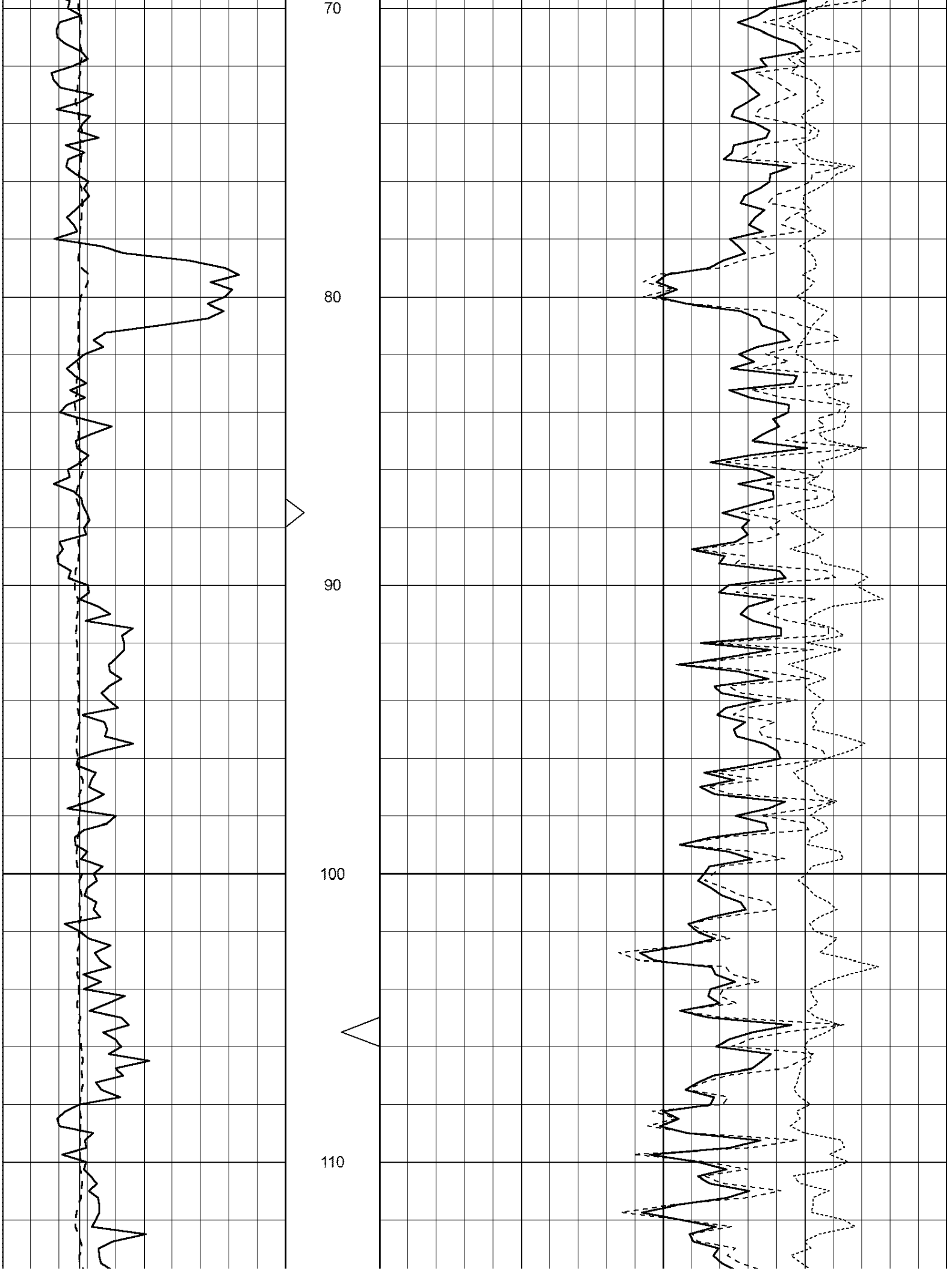
4	DCAL (in)	14				-0.5 RHOC (g/cc)	0.5

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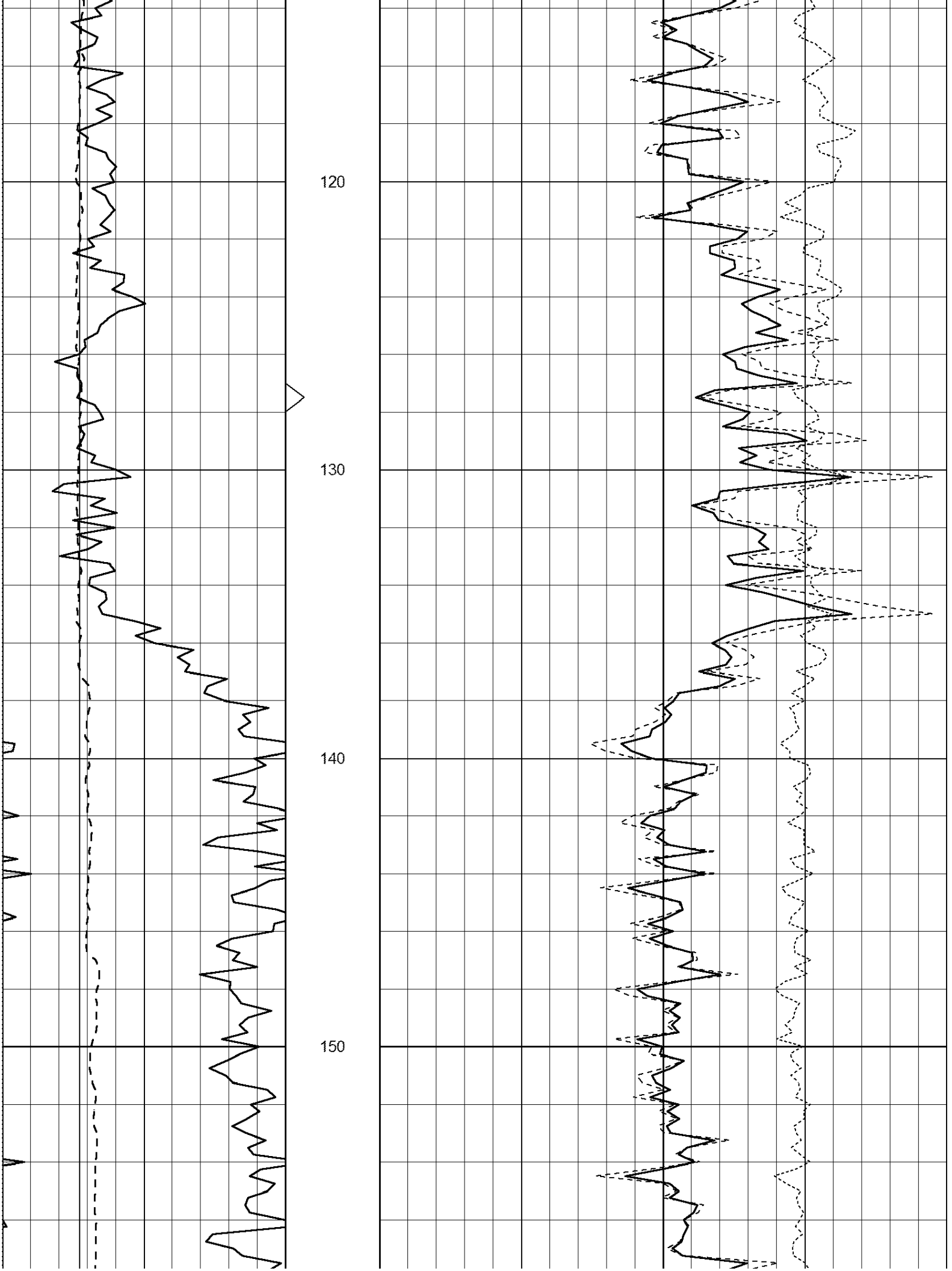
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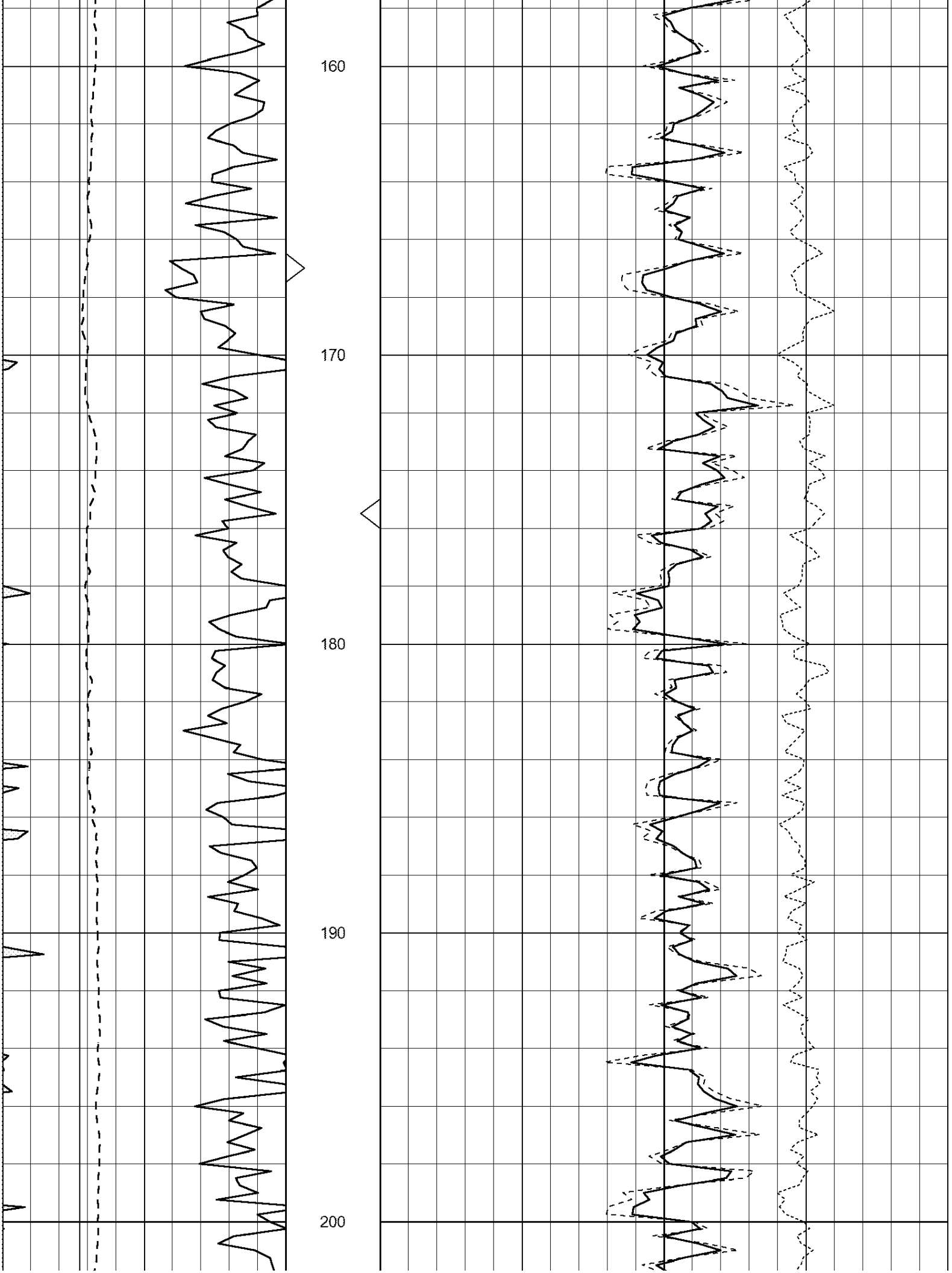
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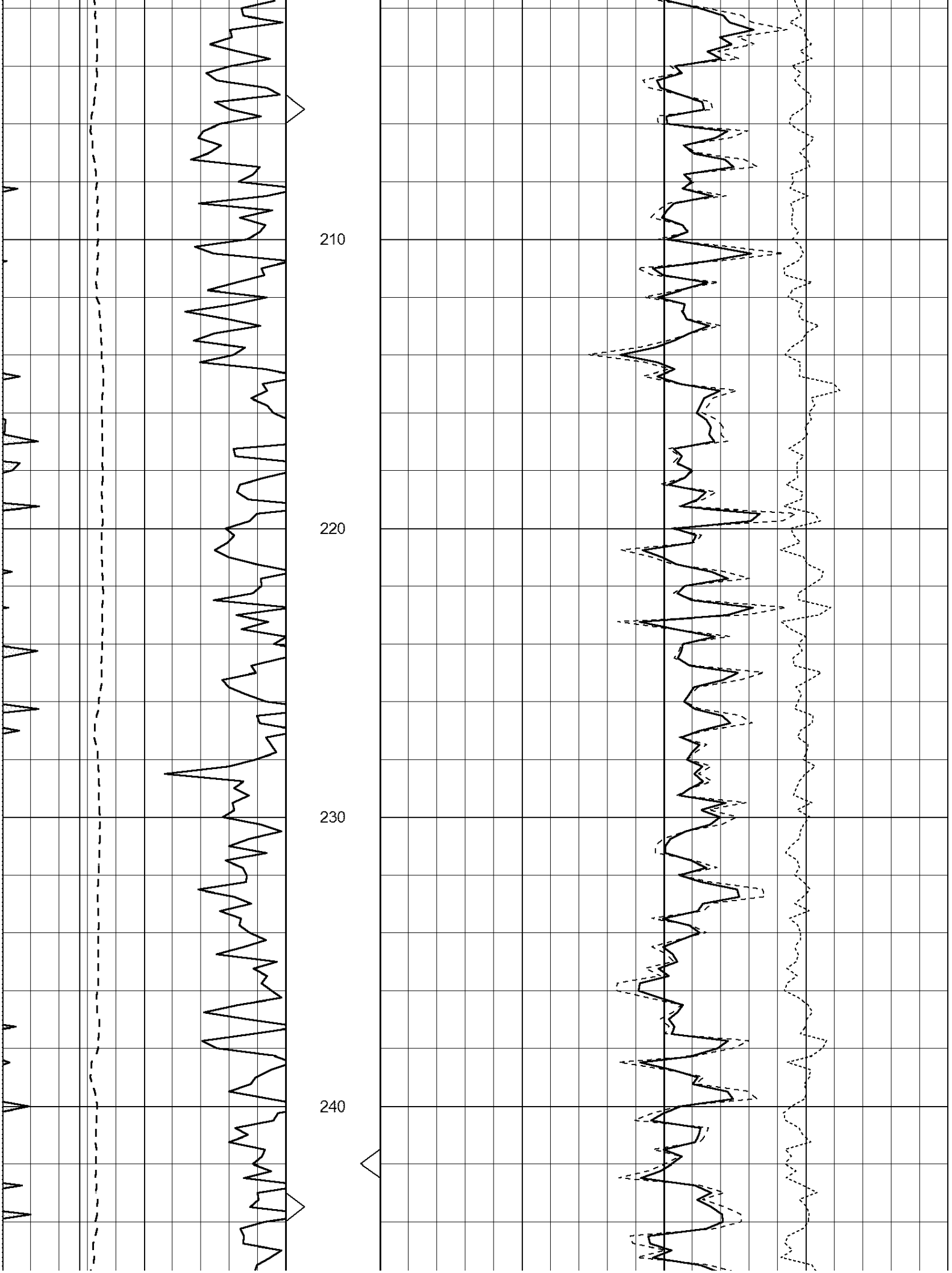
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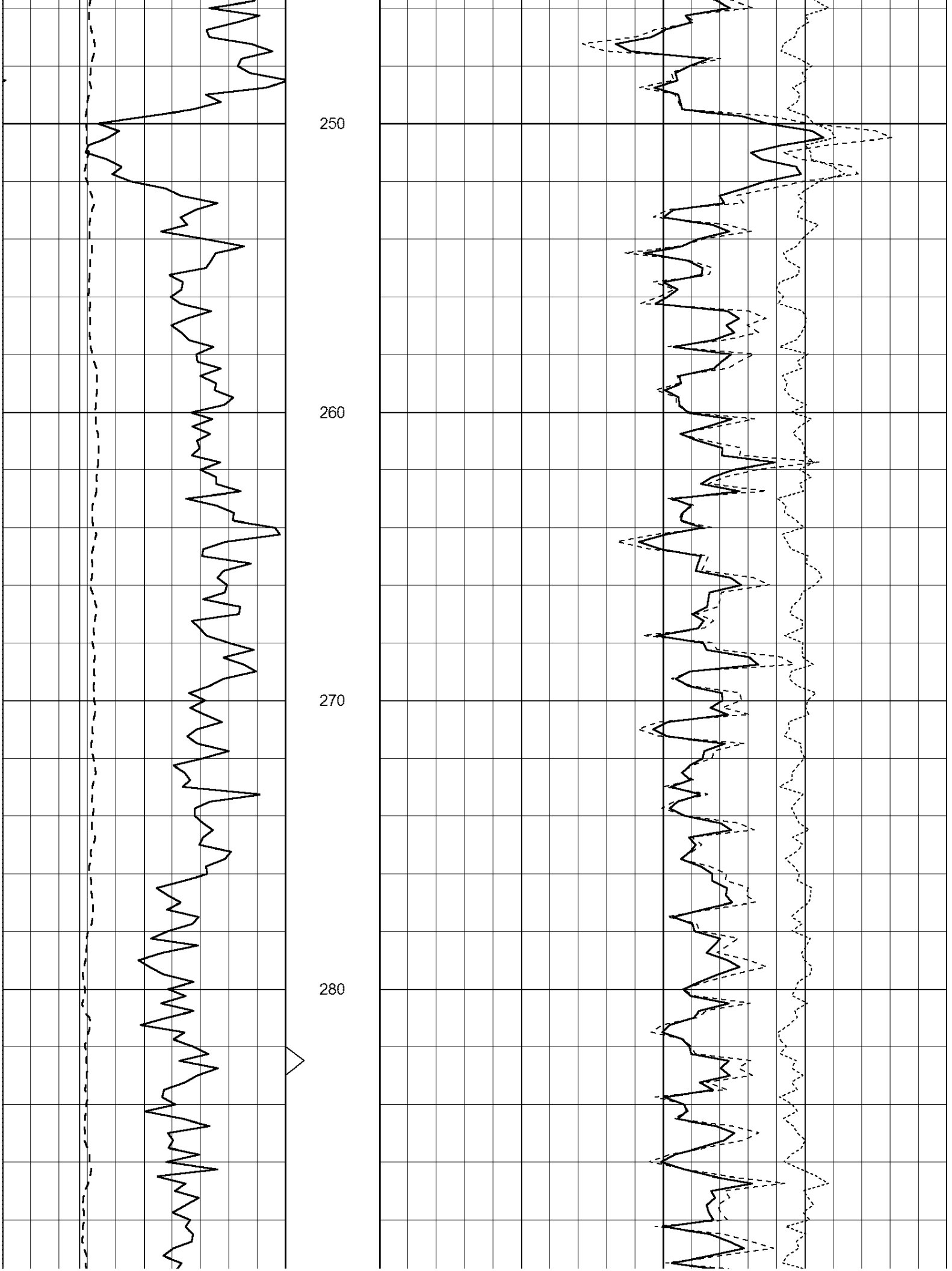
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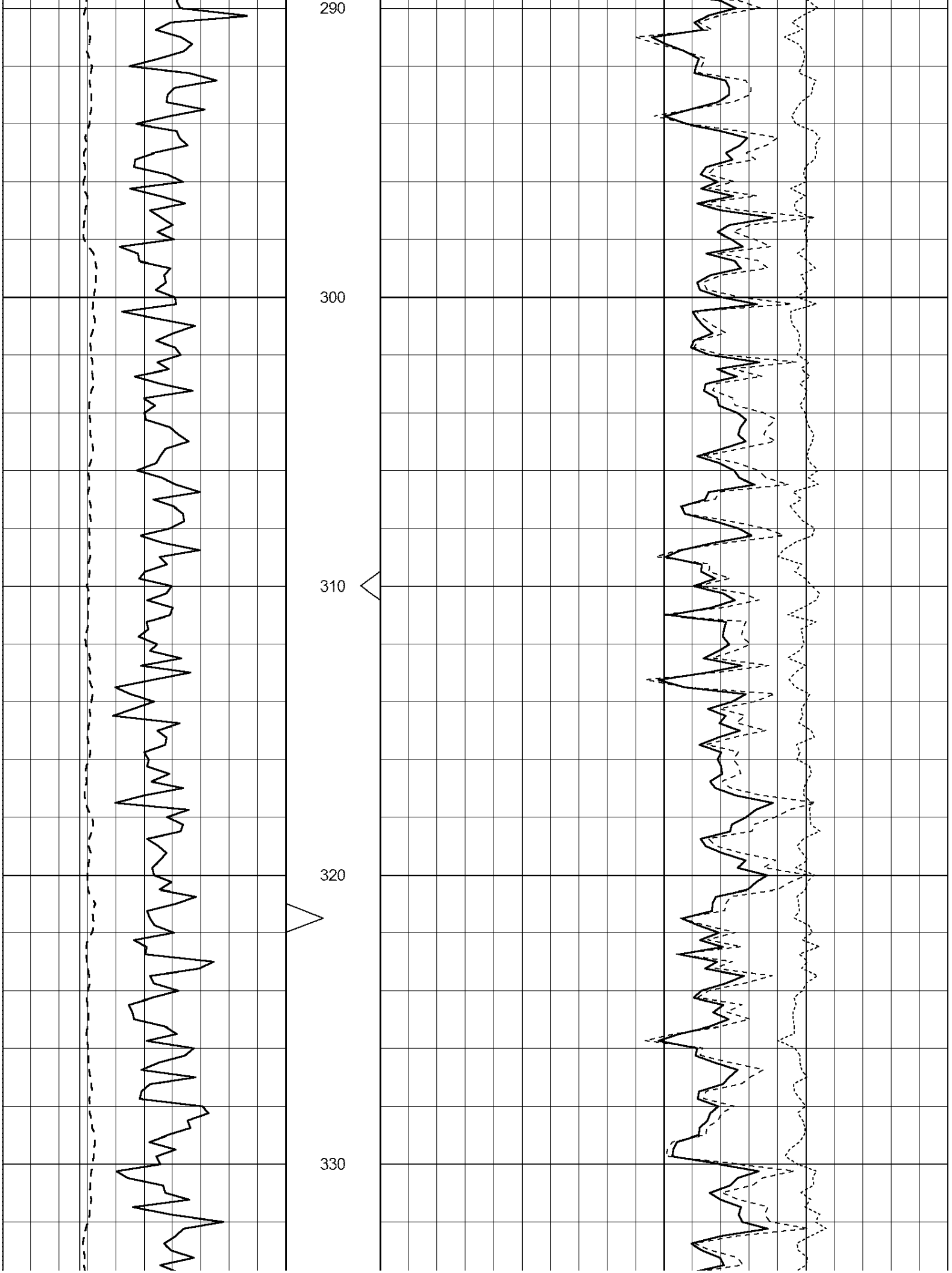
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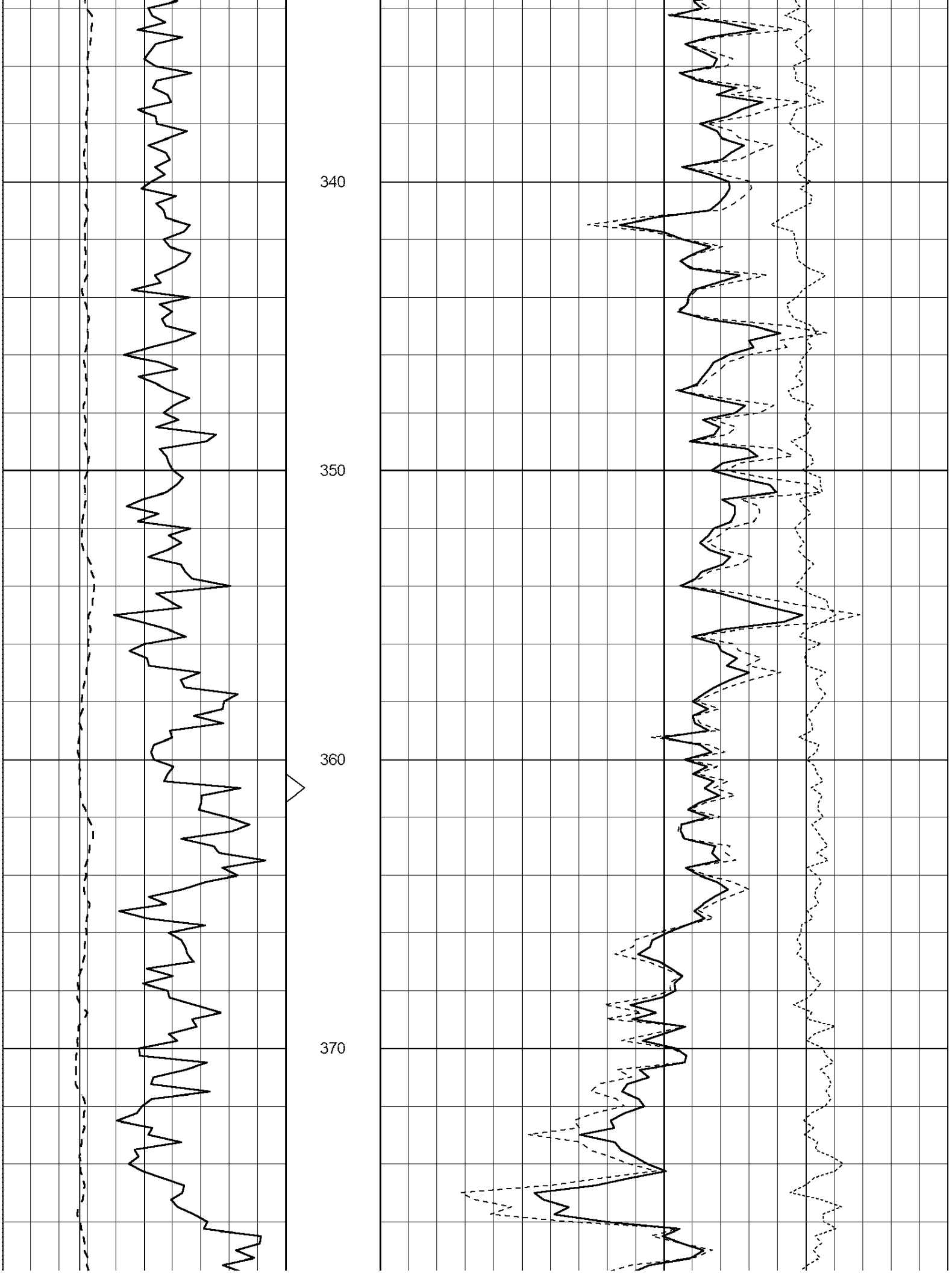
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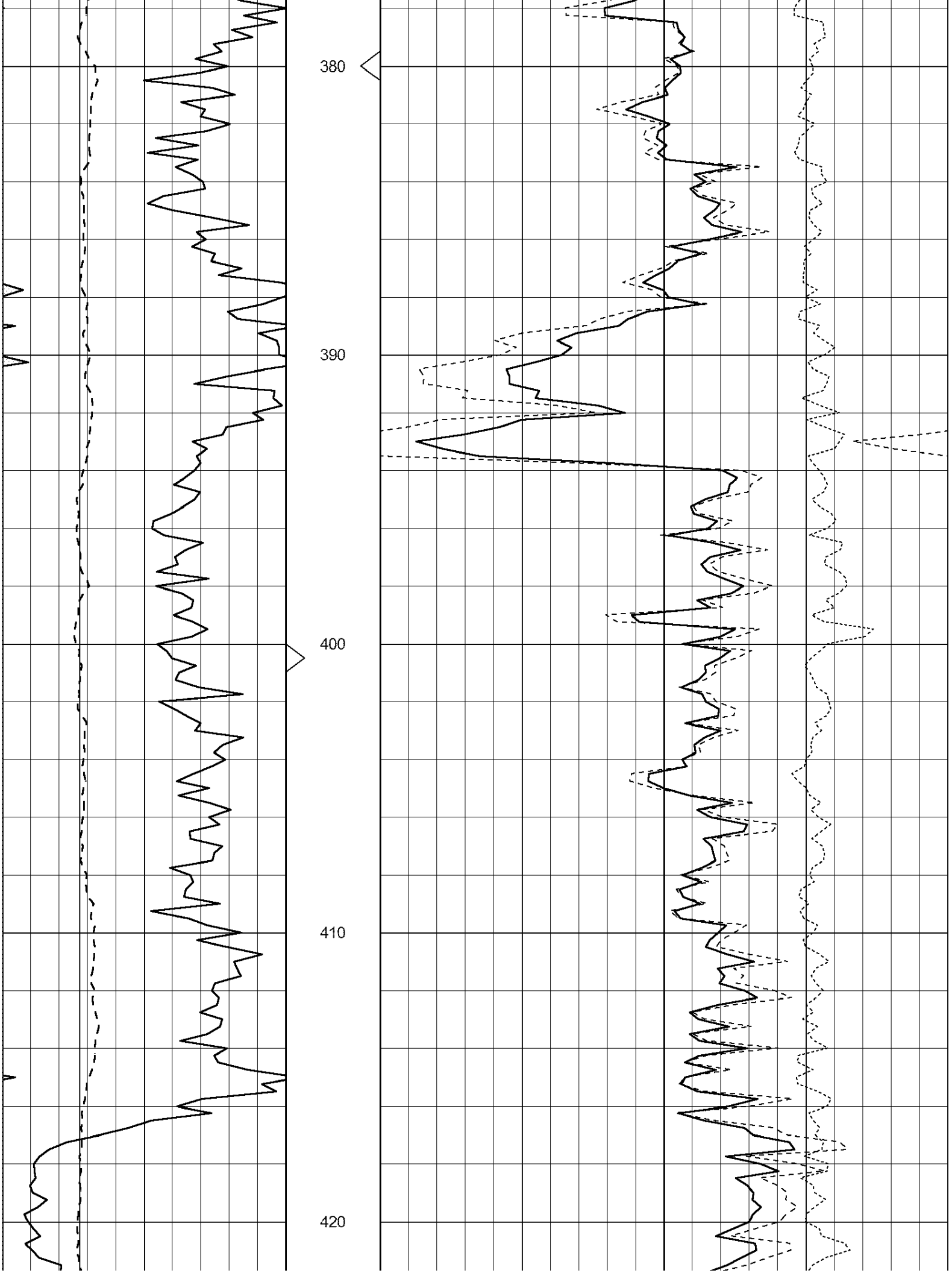
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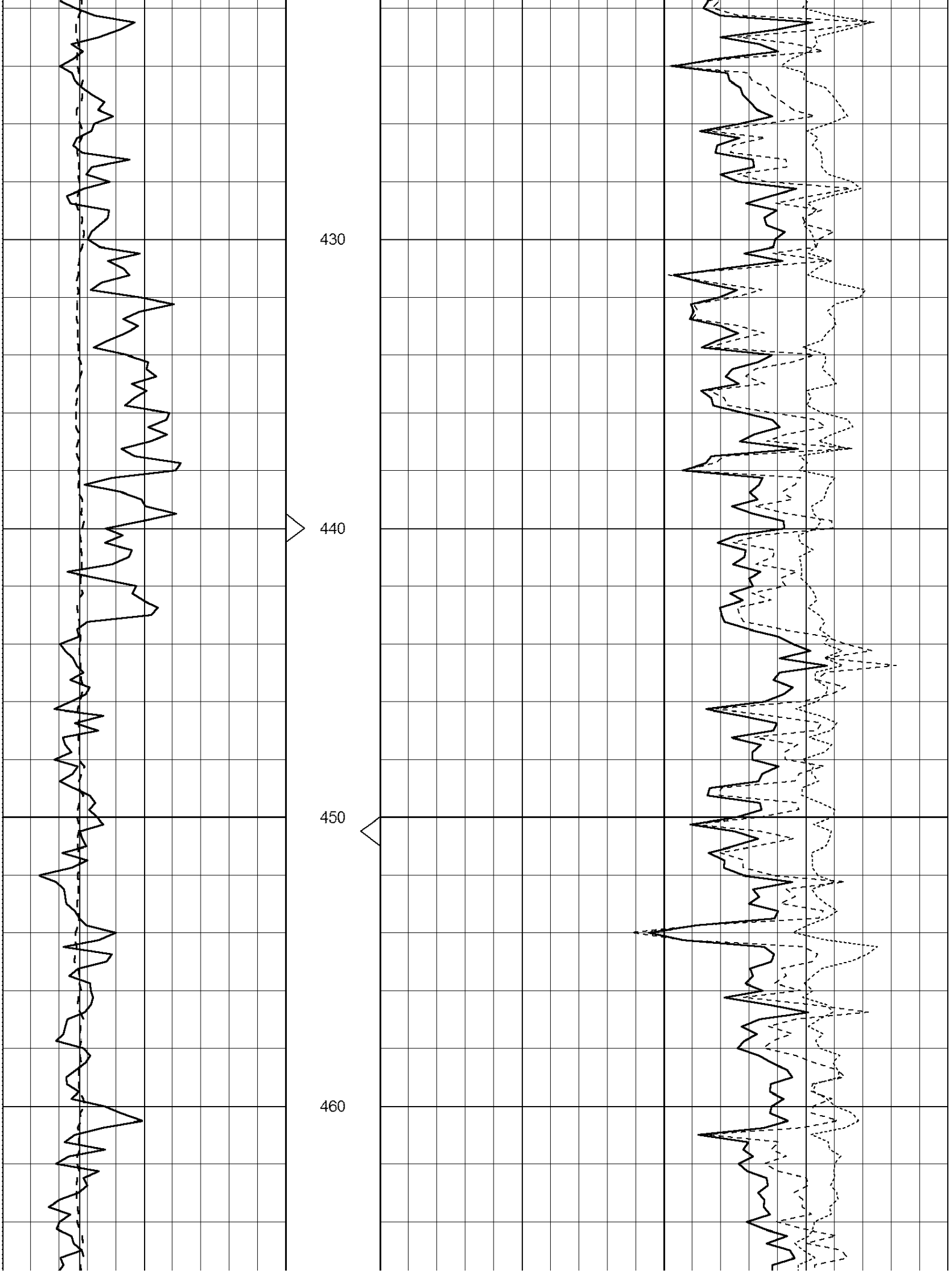
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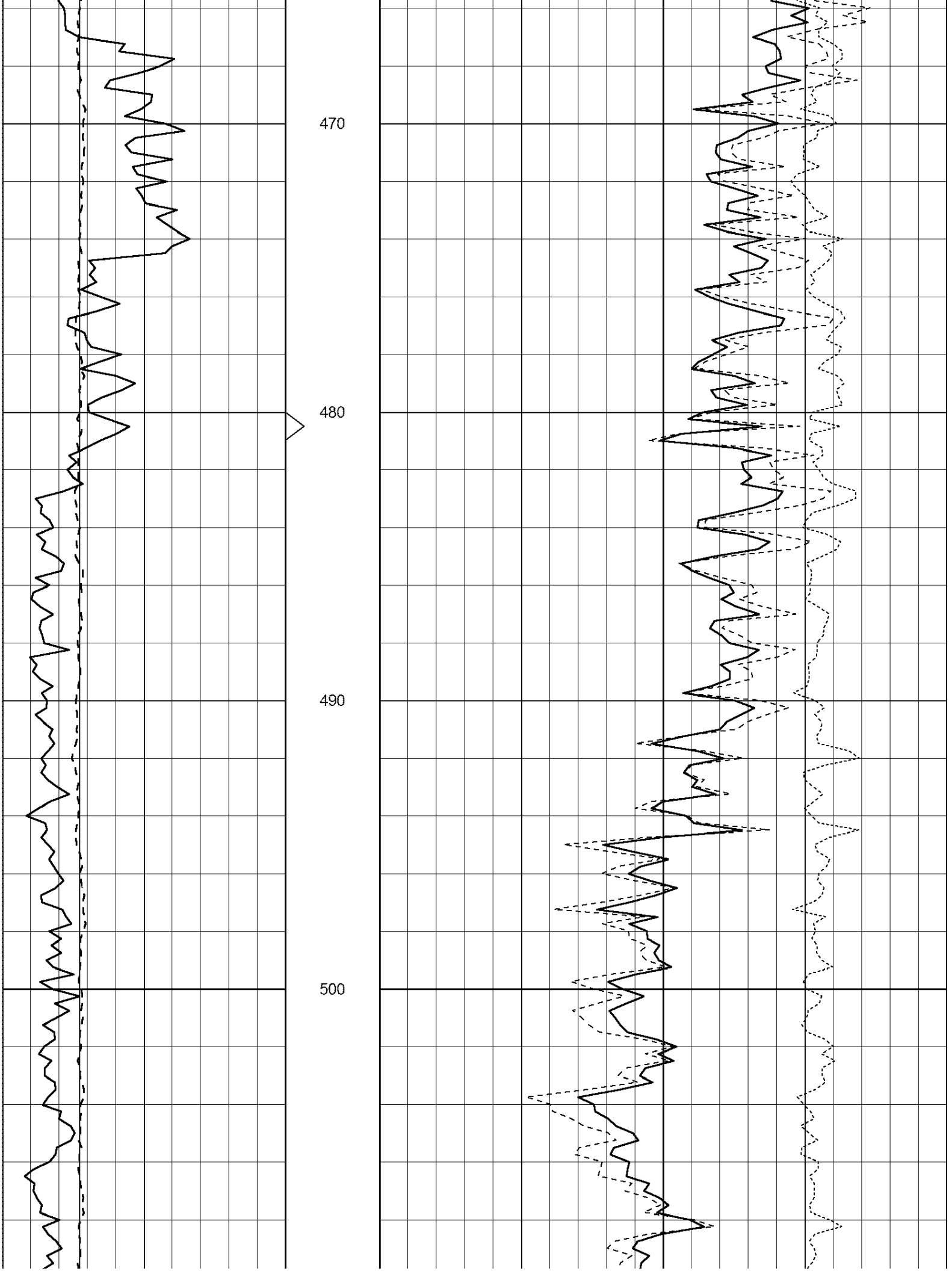
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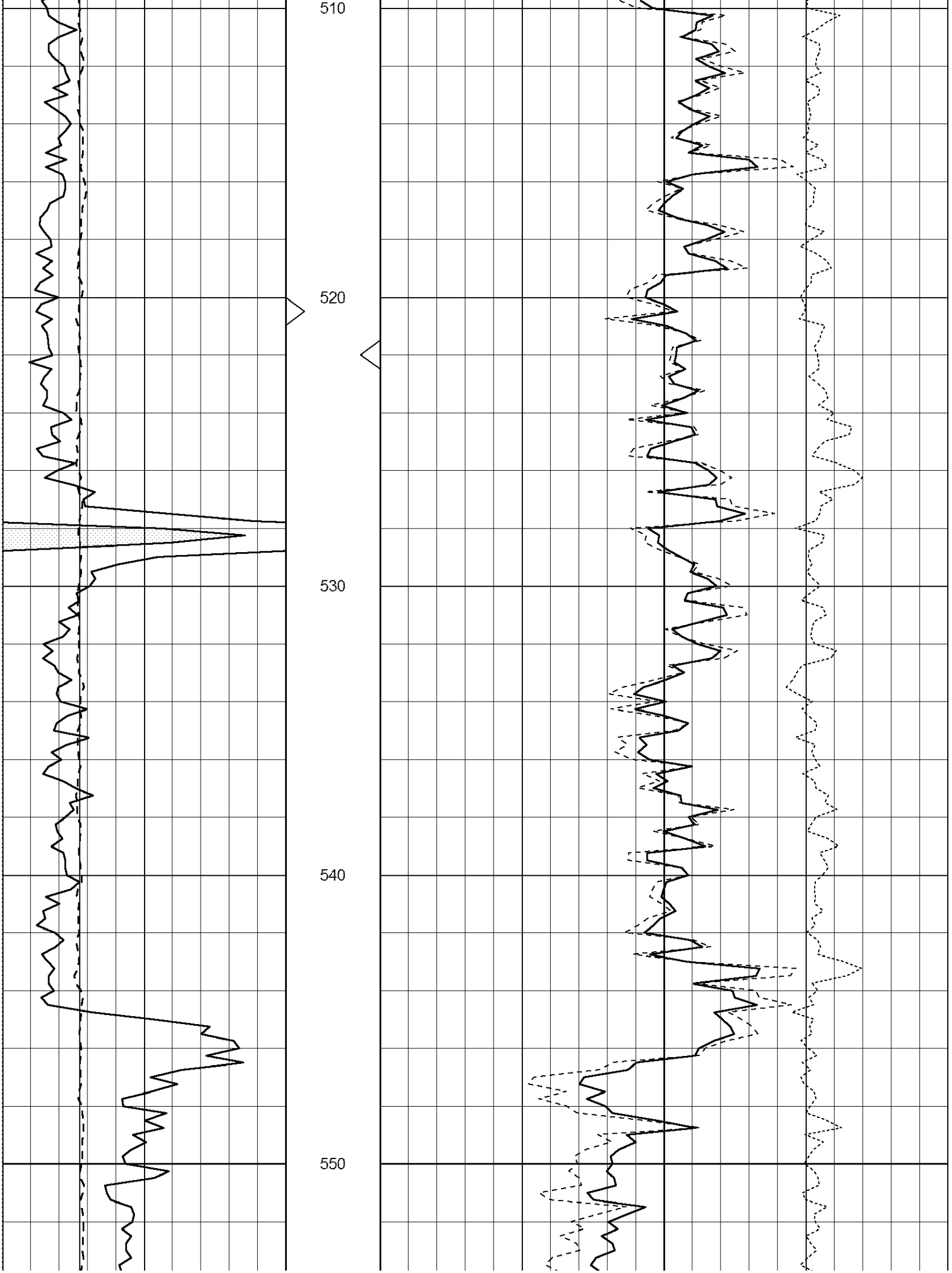
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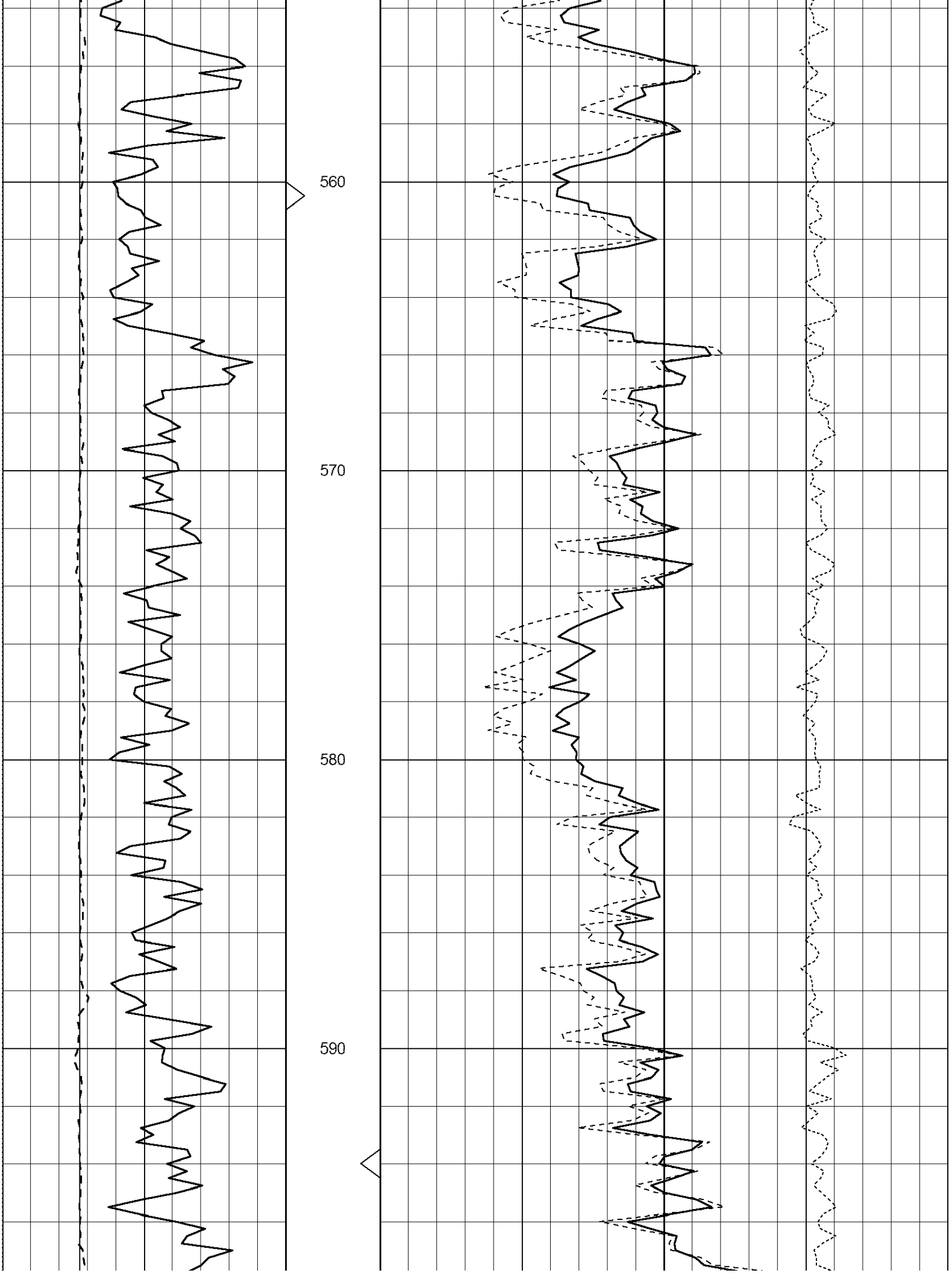
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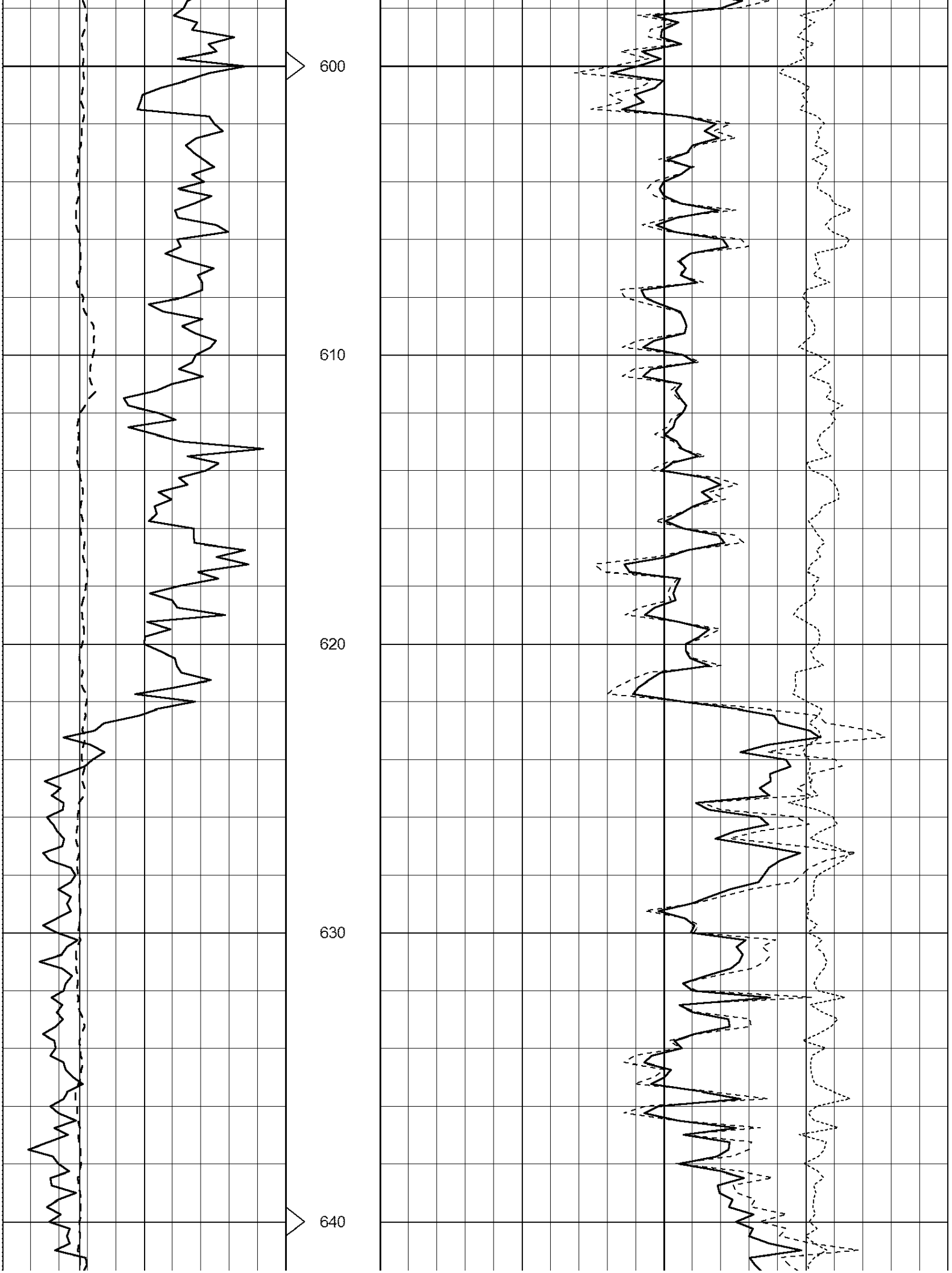
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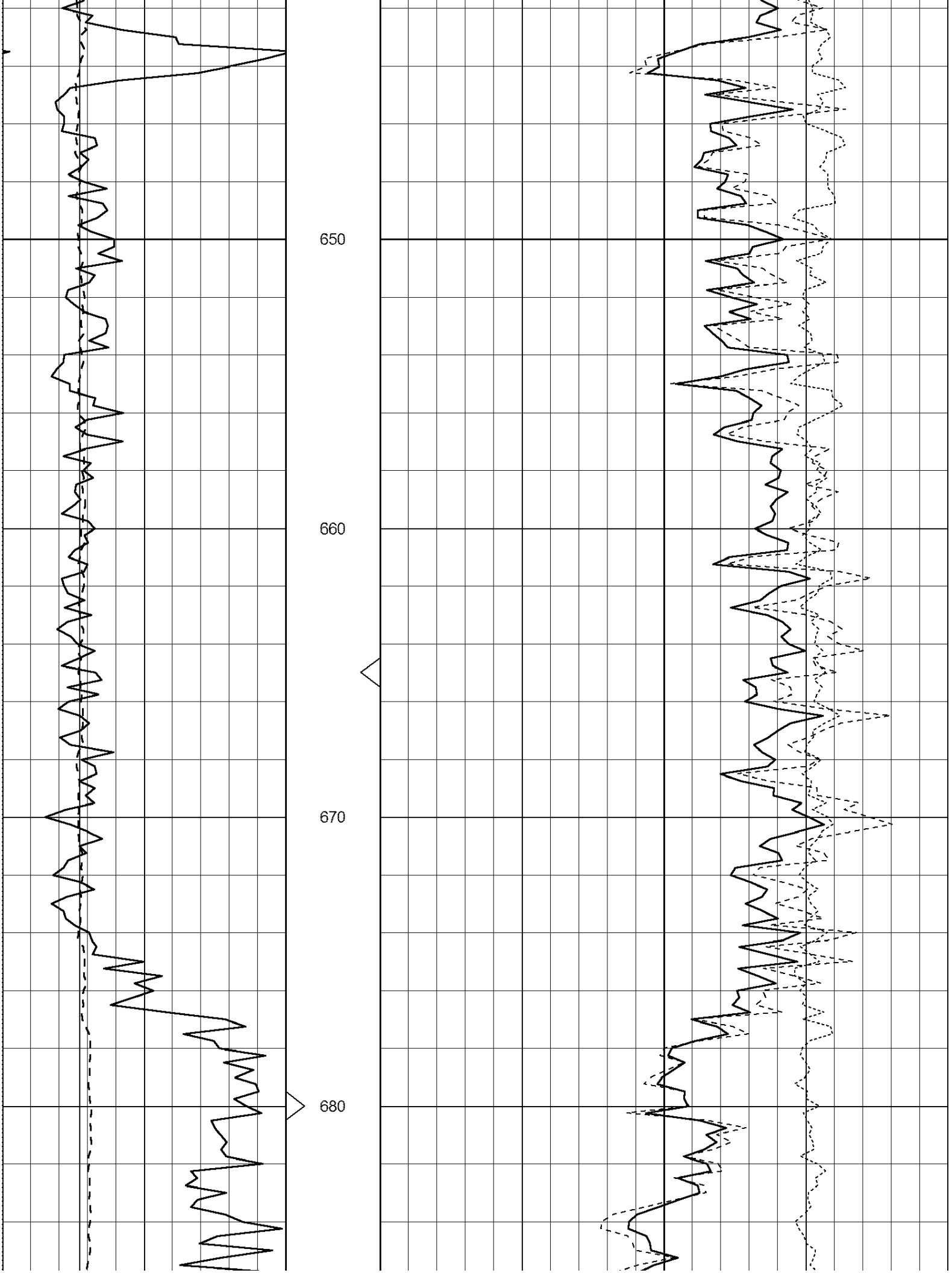
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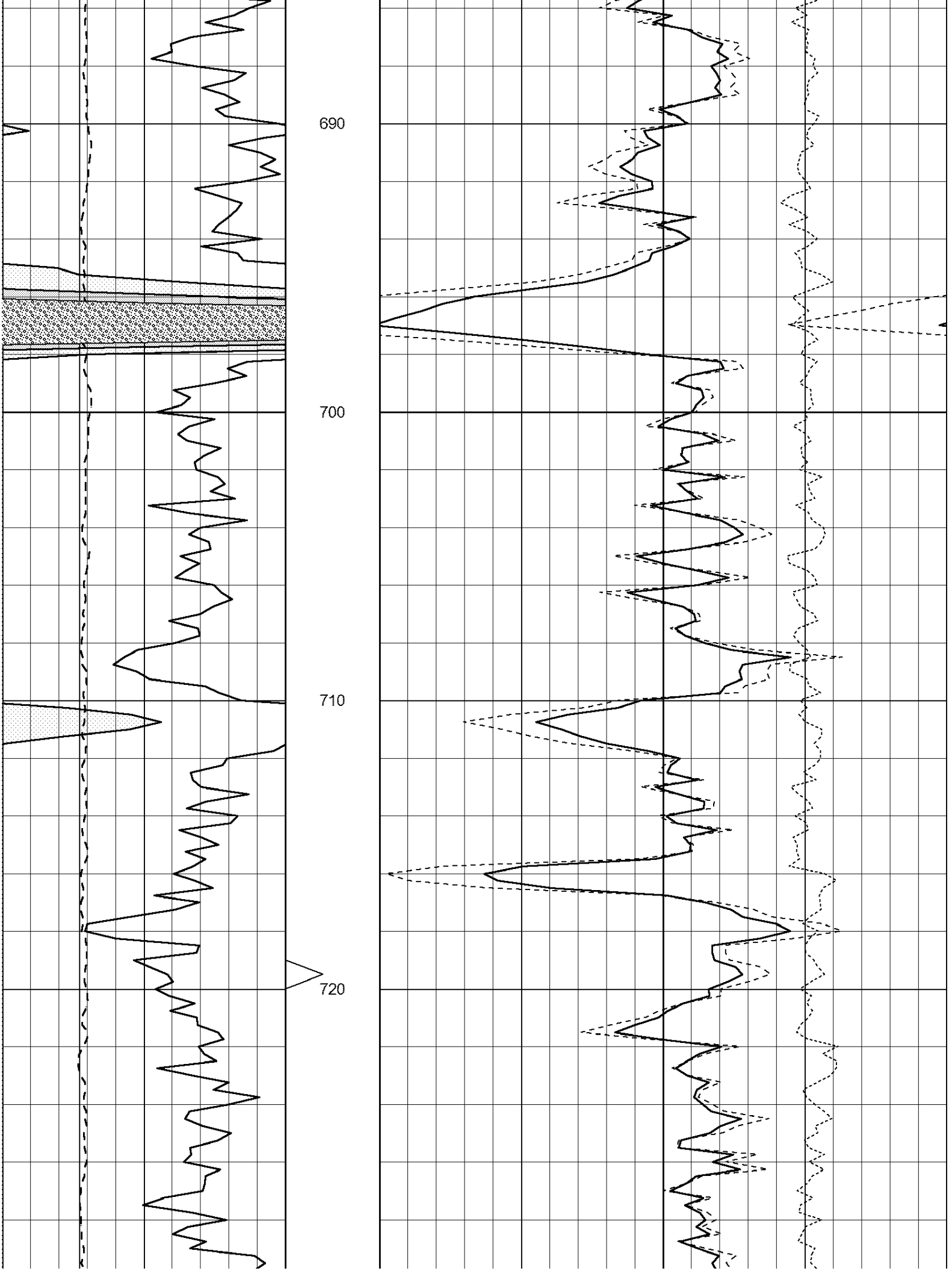
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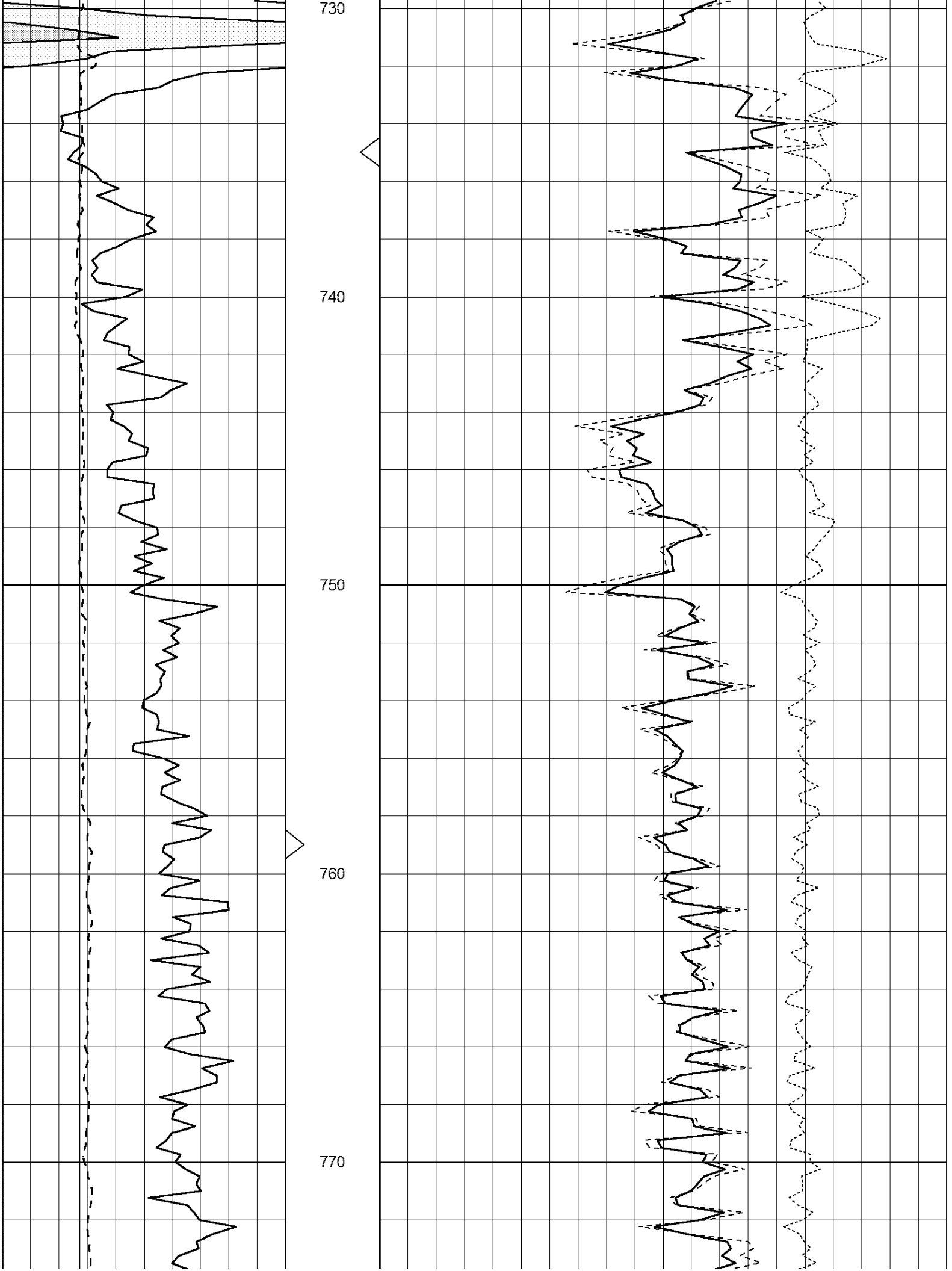
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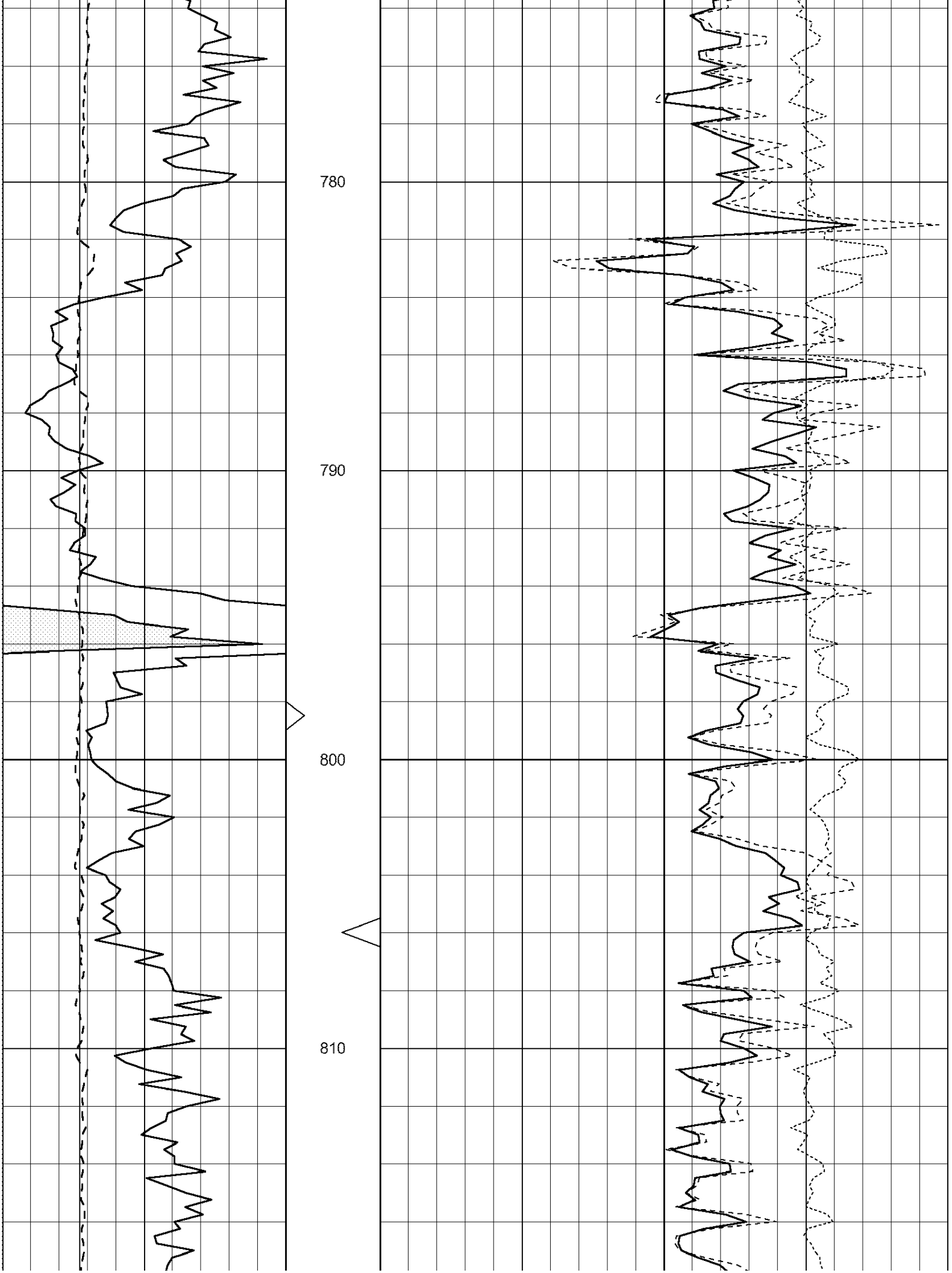
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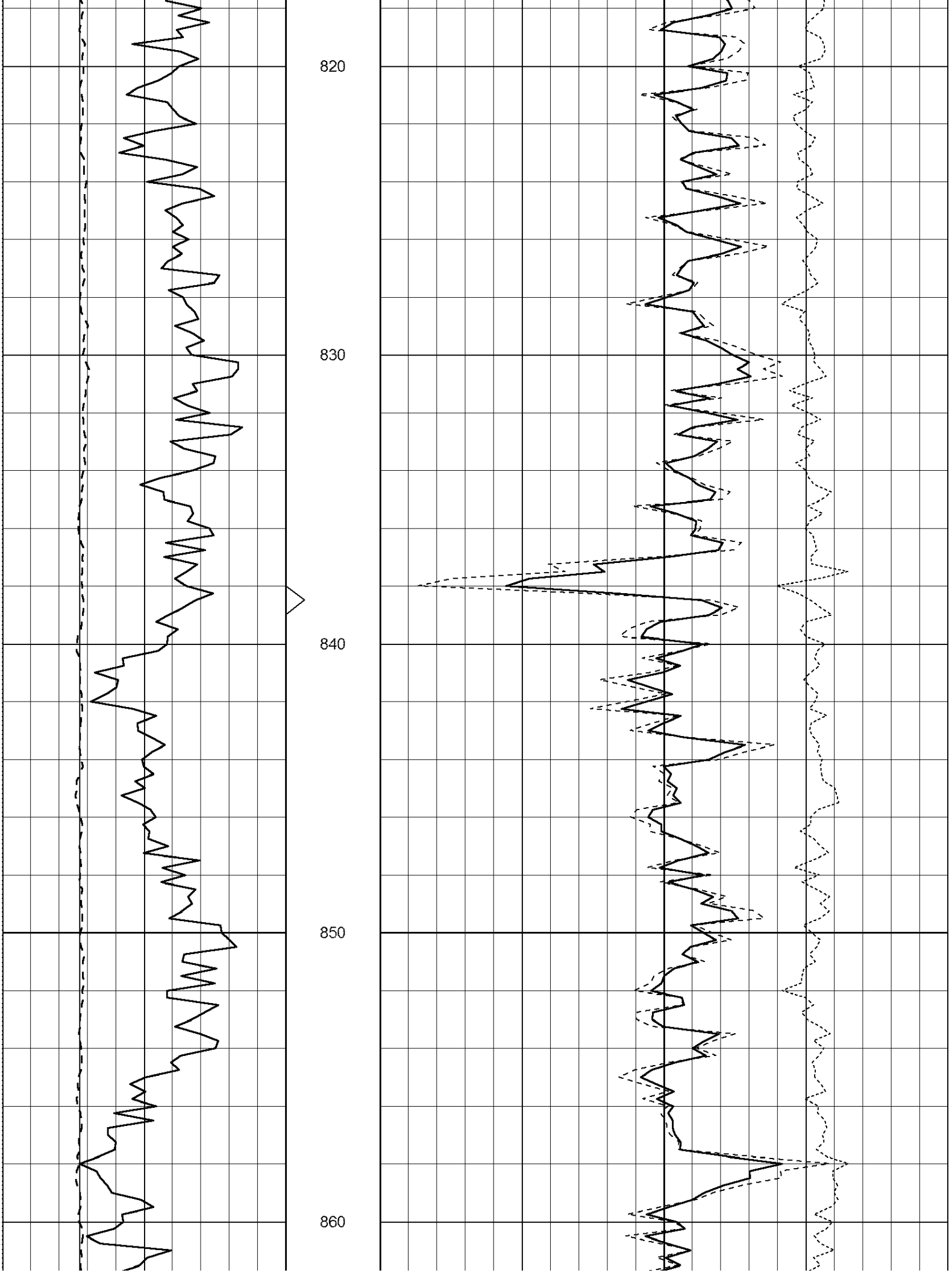
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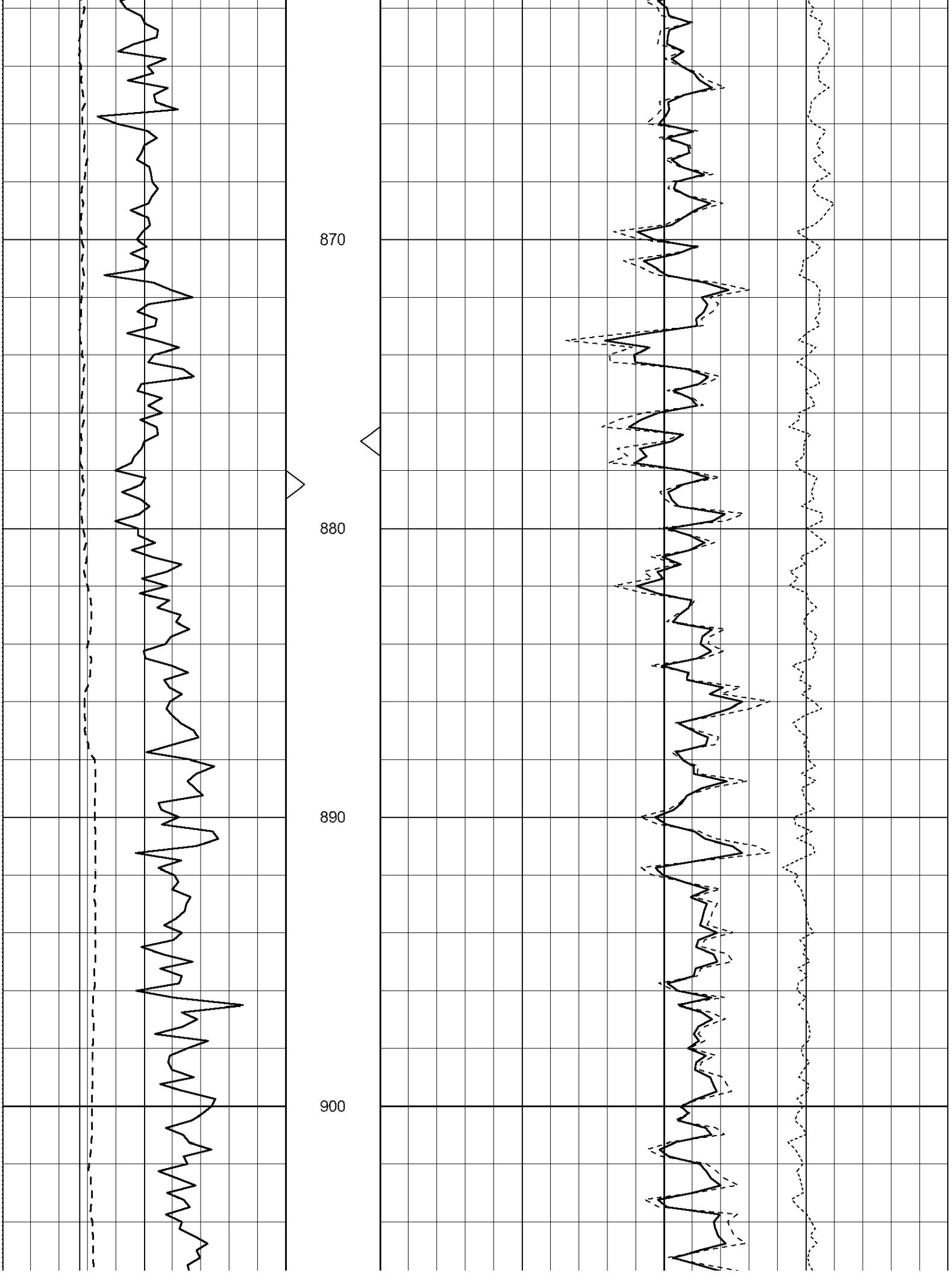
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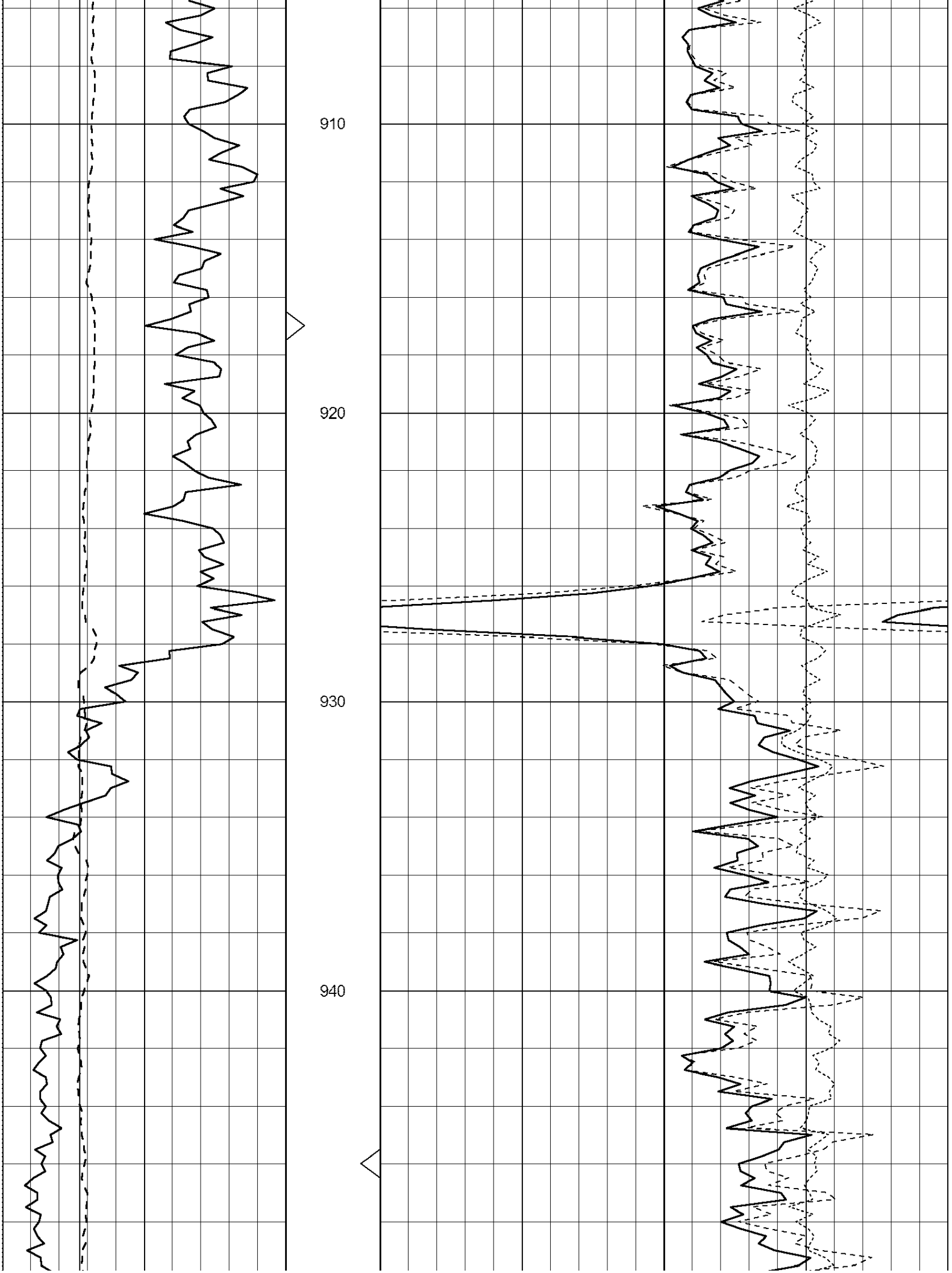
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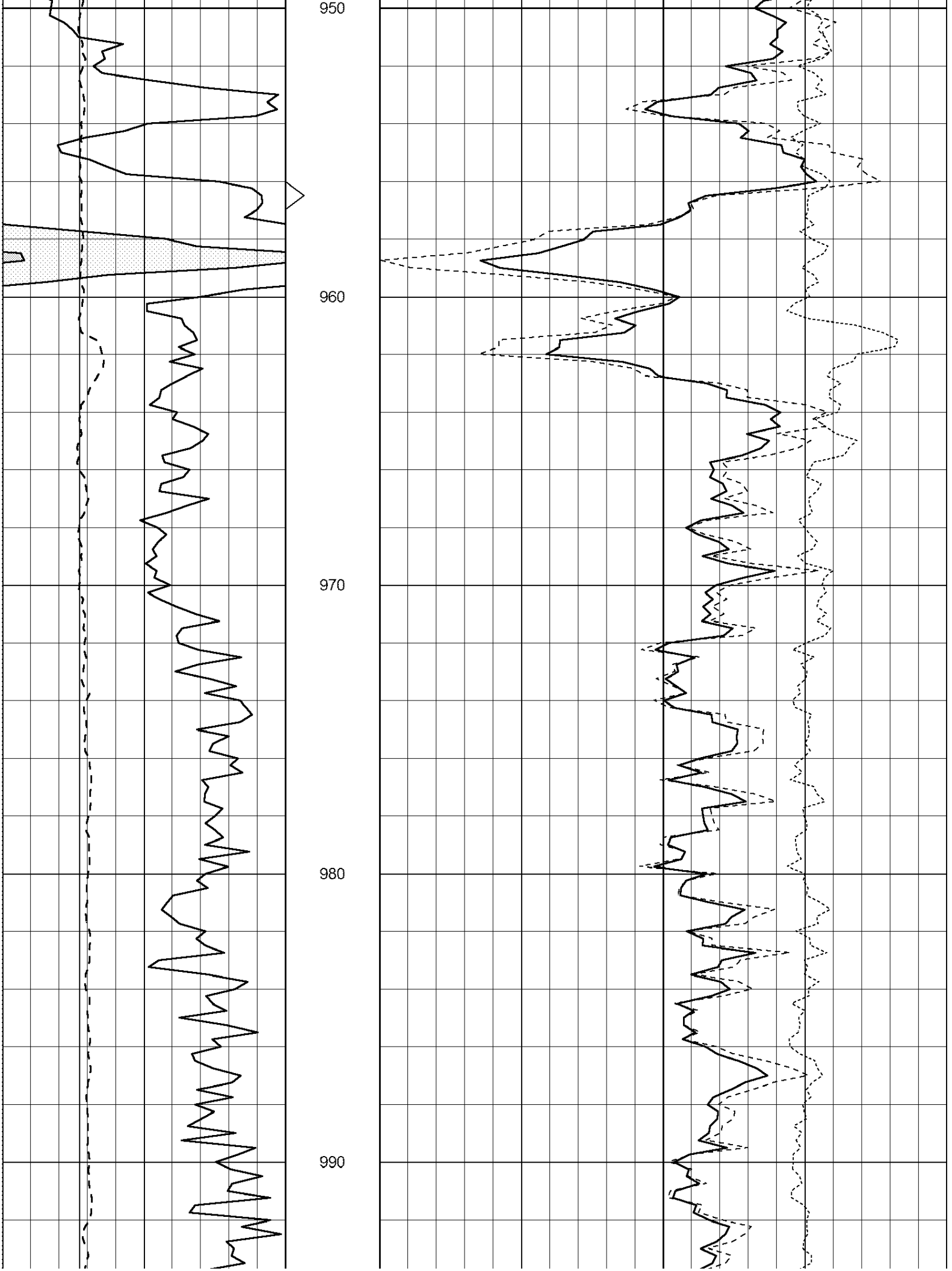
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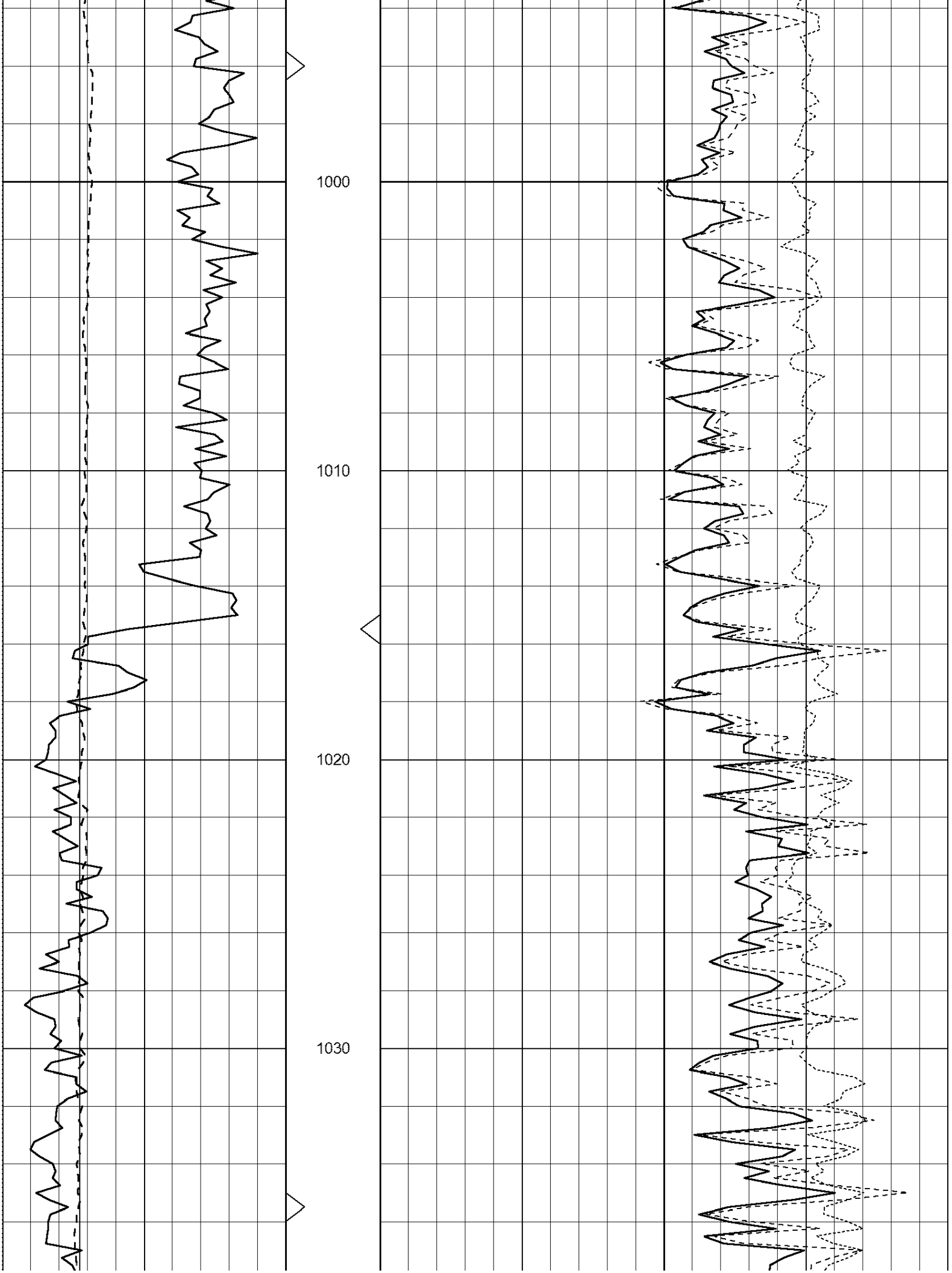
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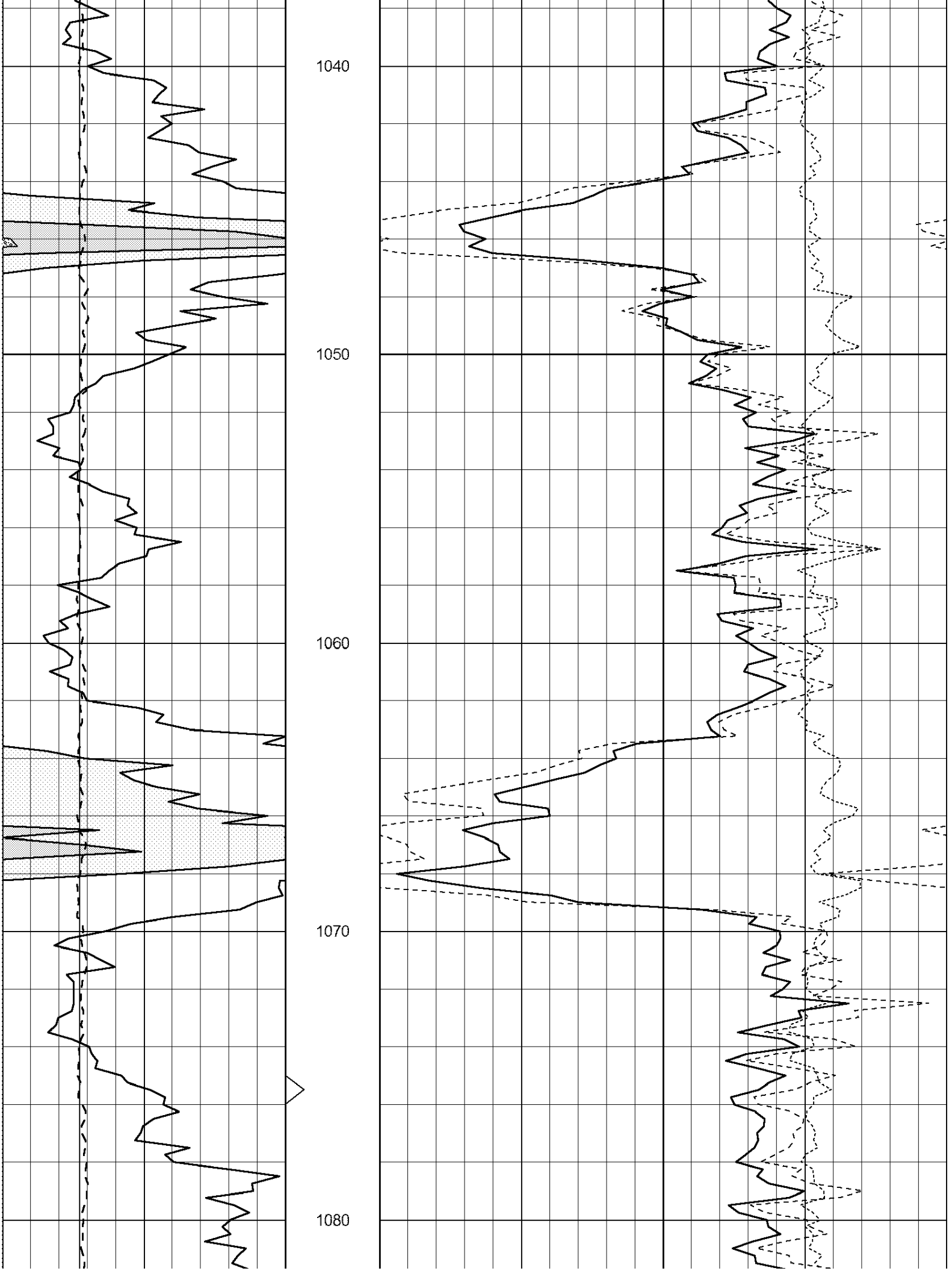
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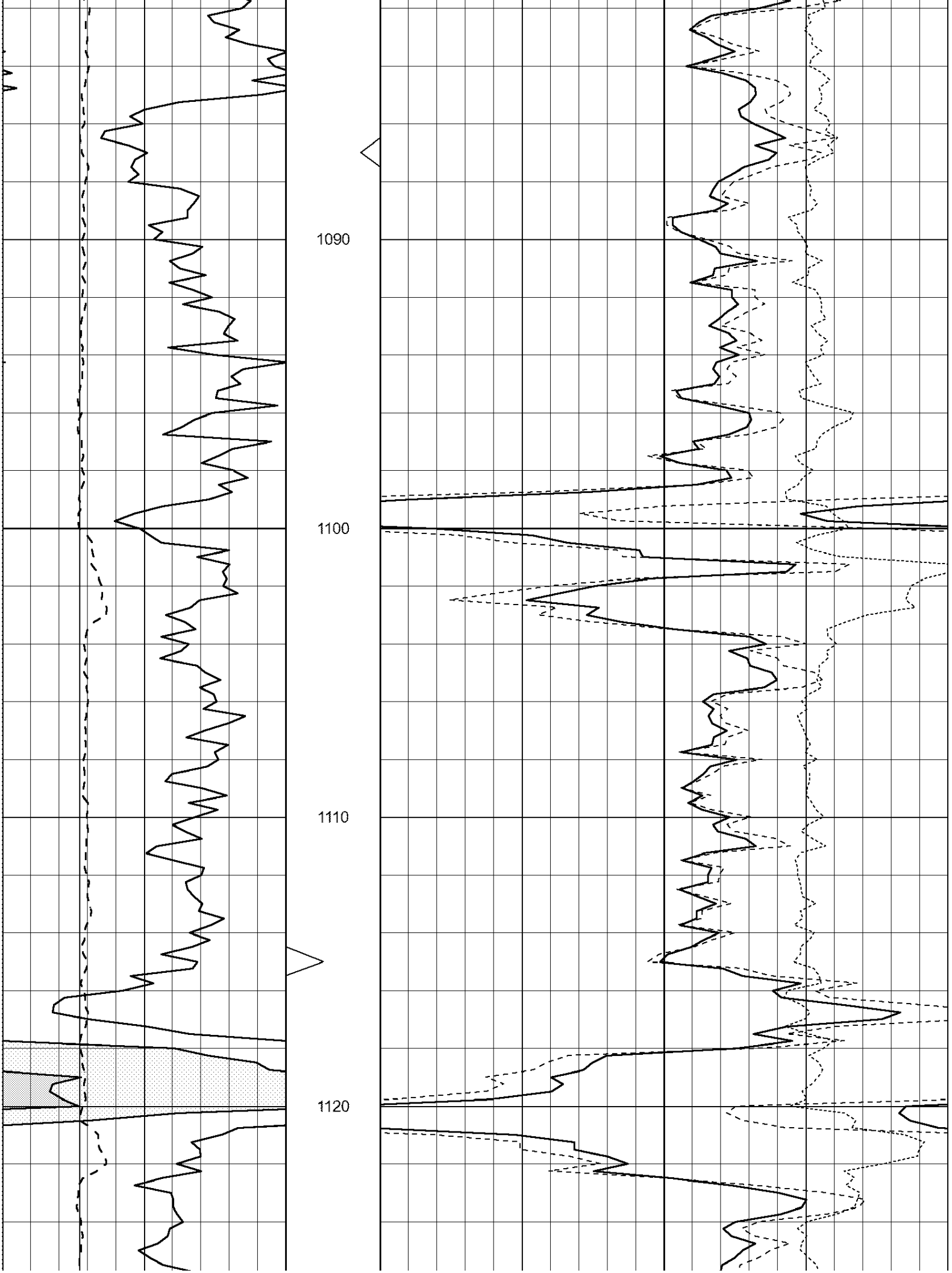
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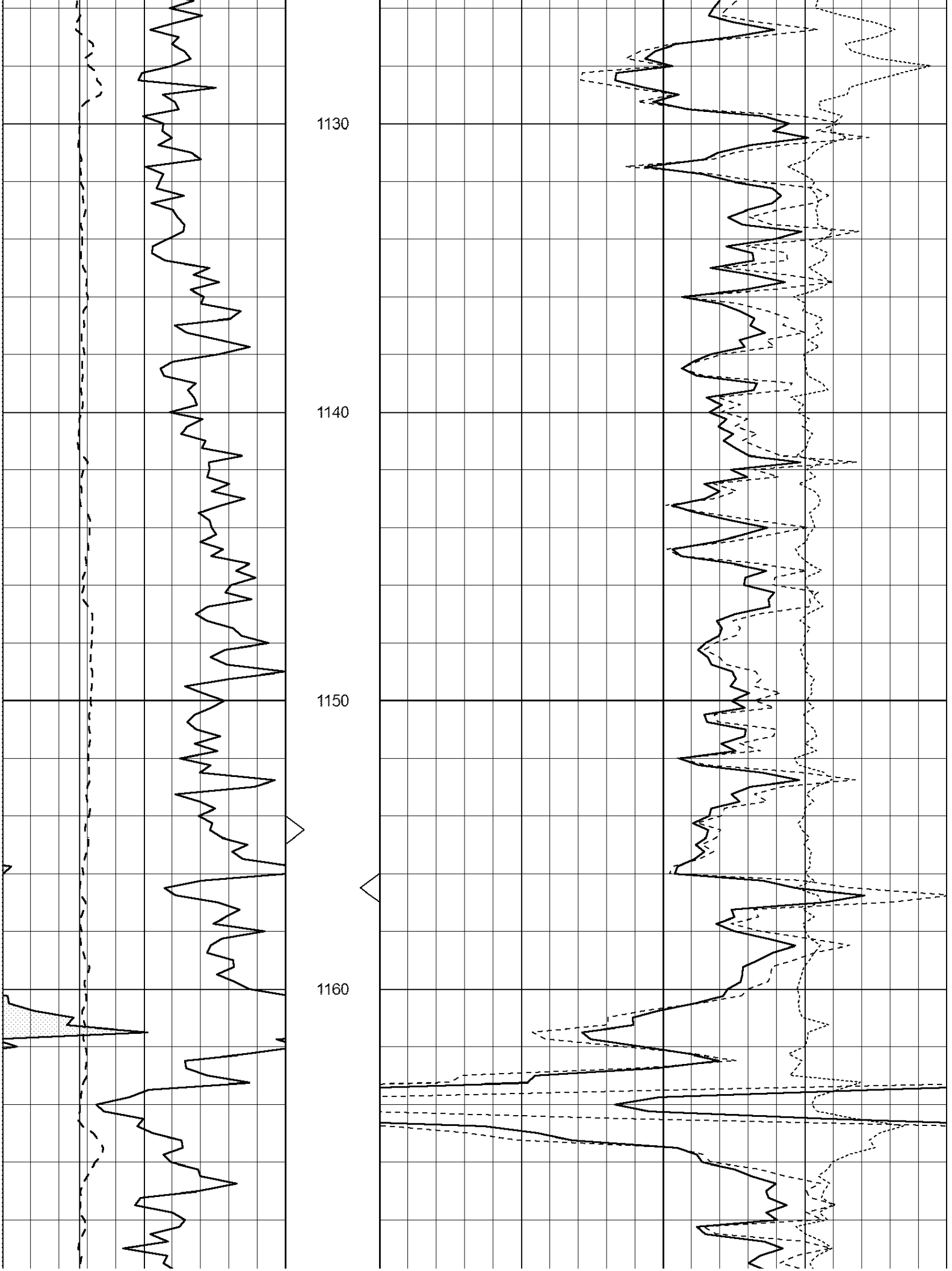
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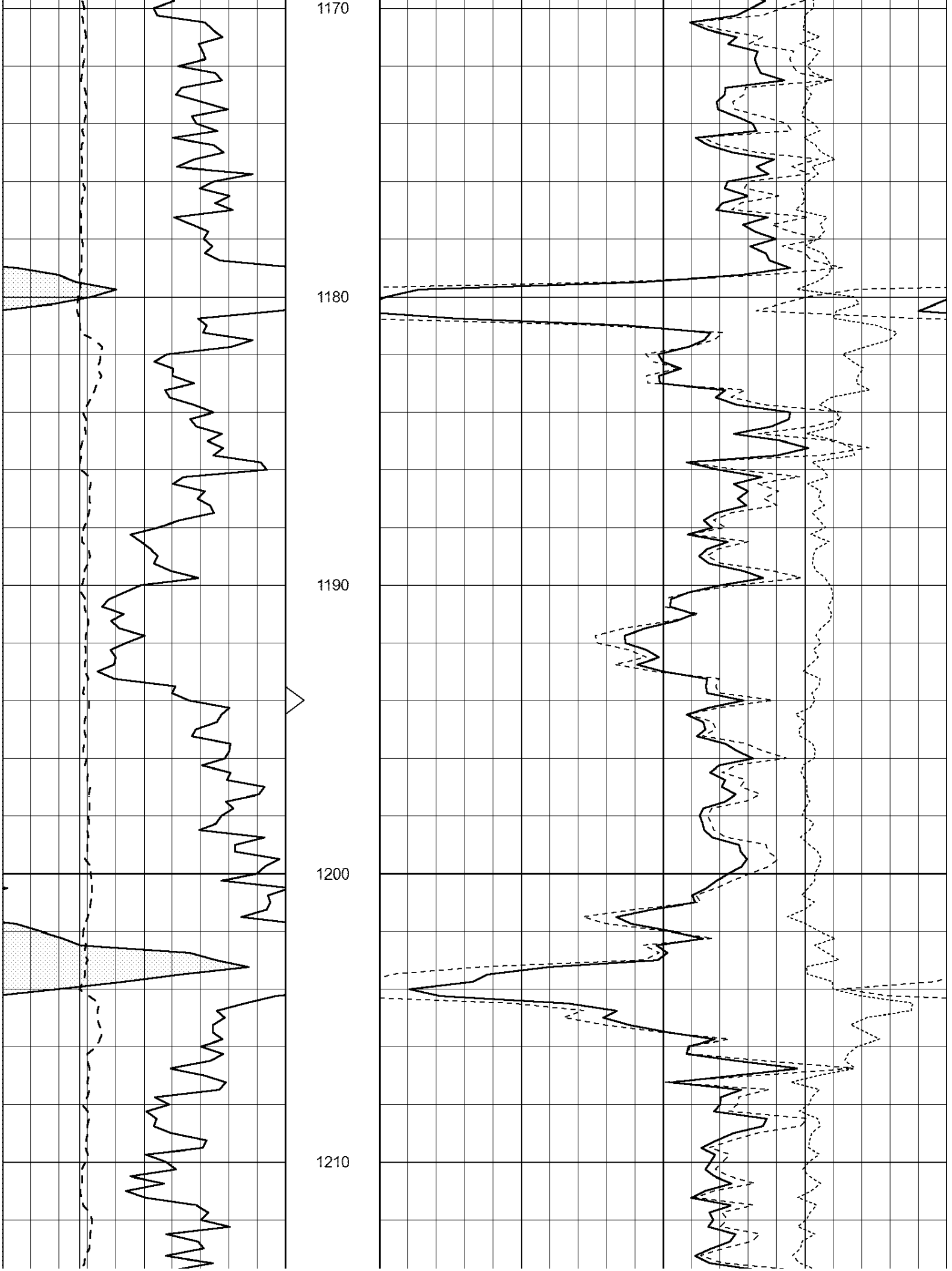
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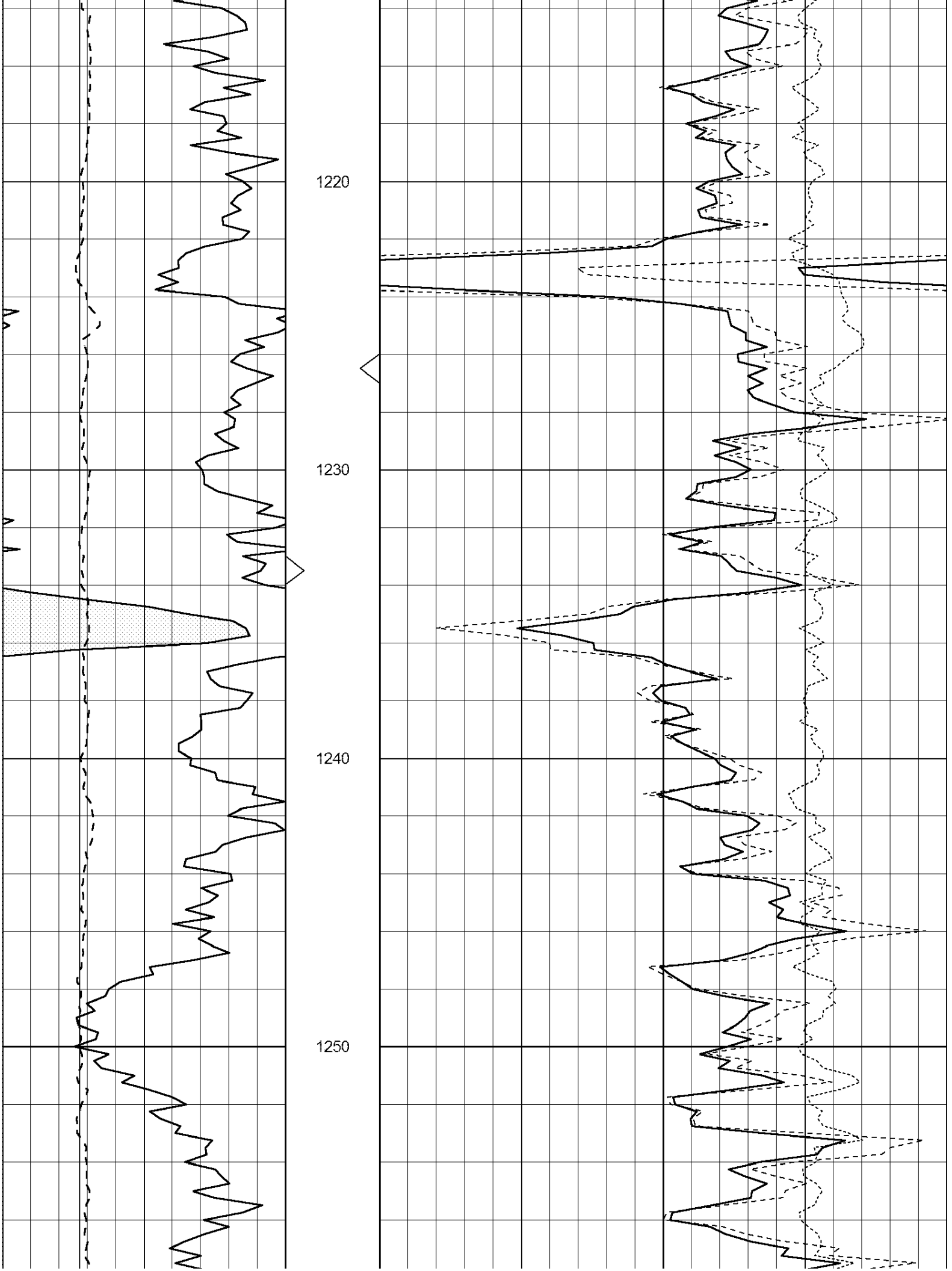
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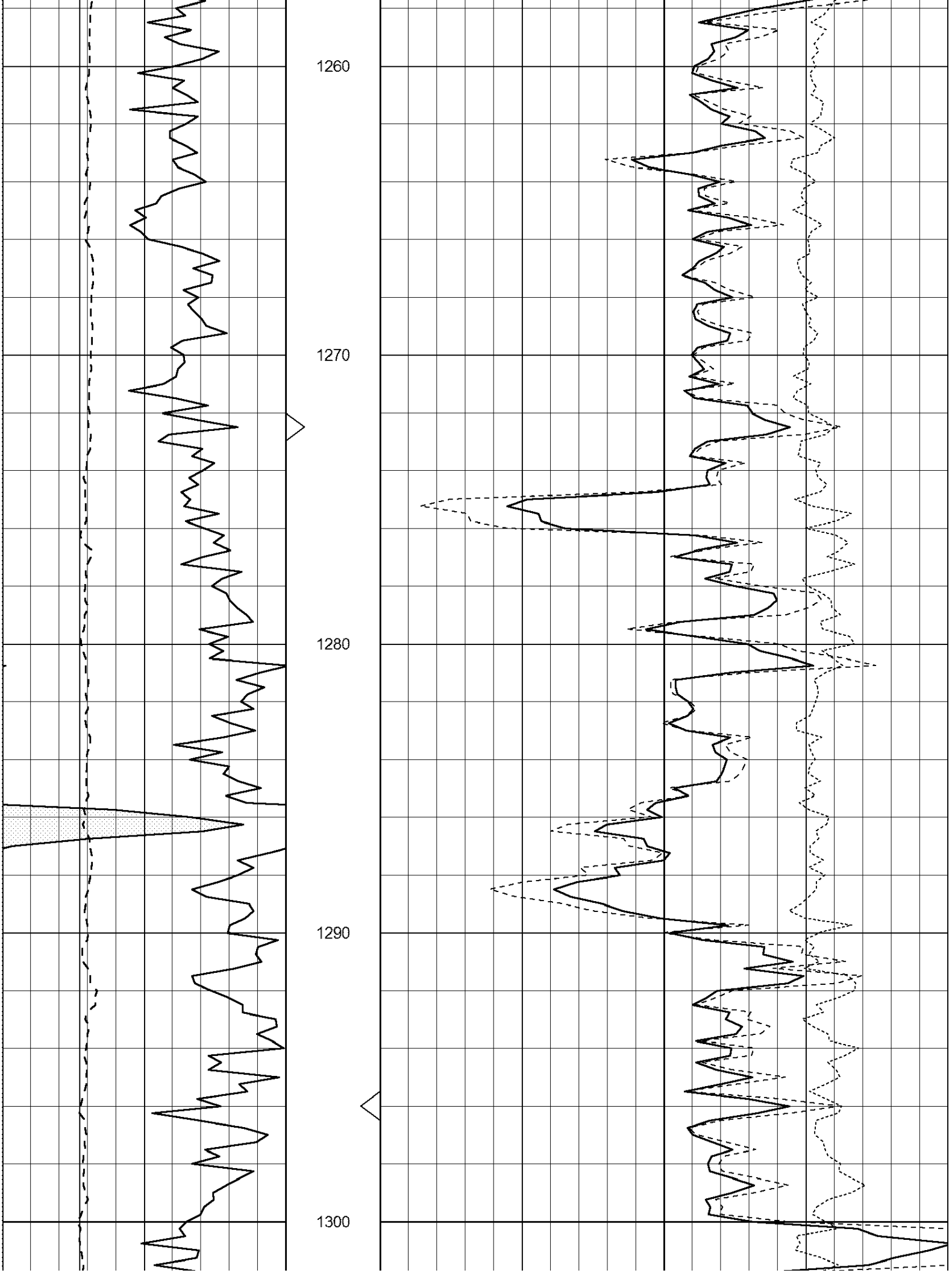
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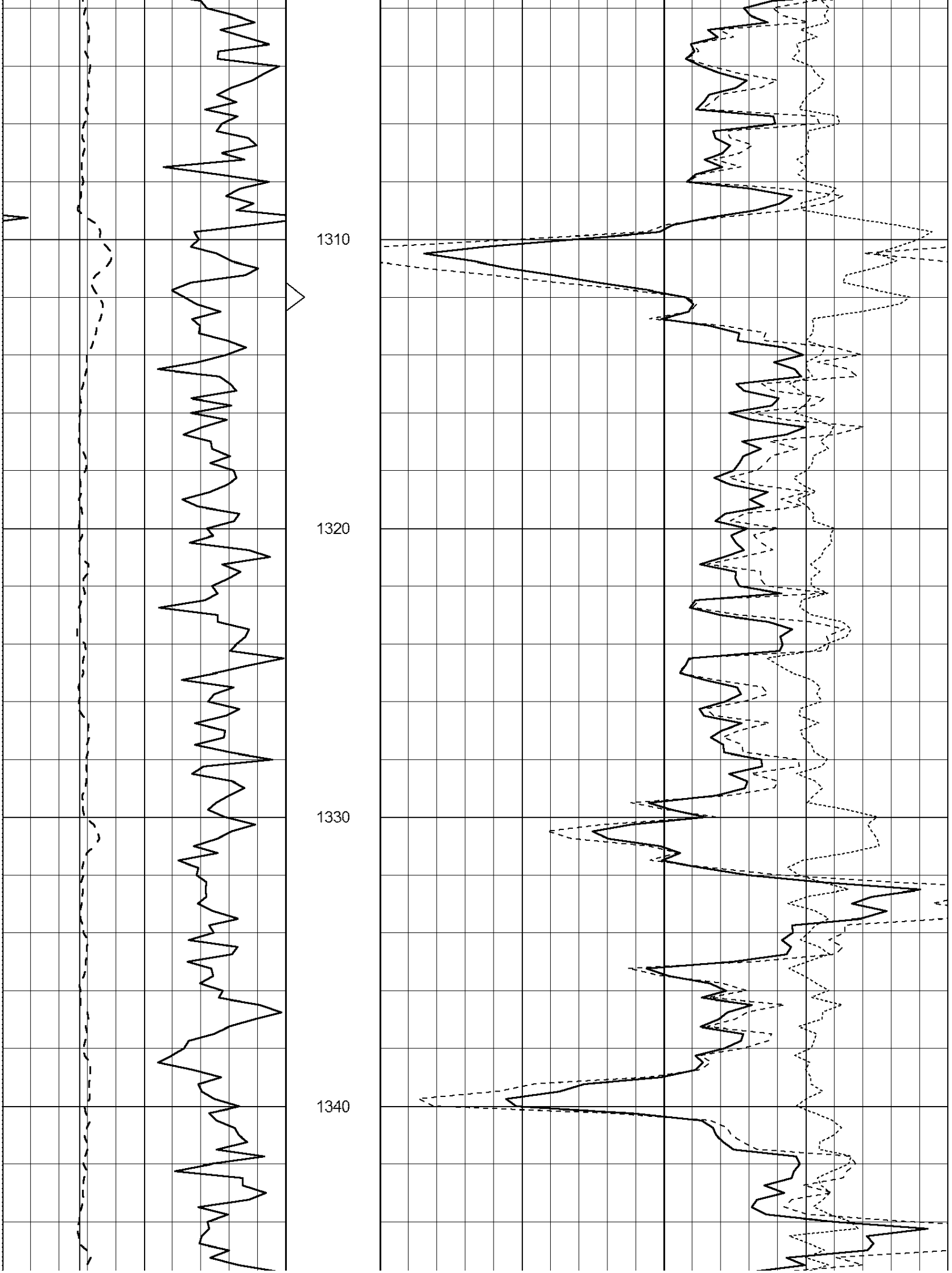
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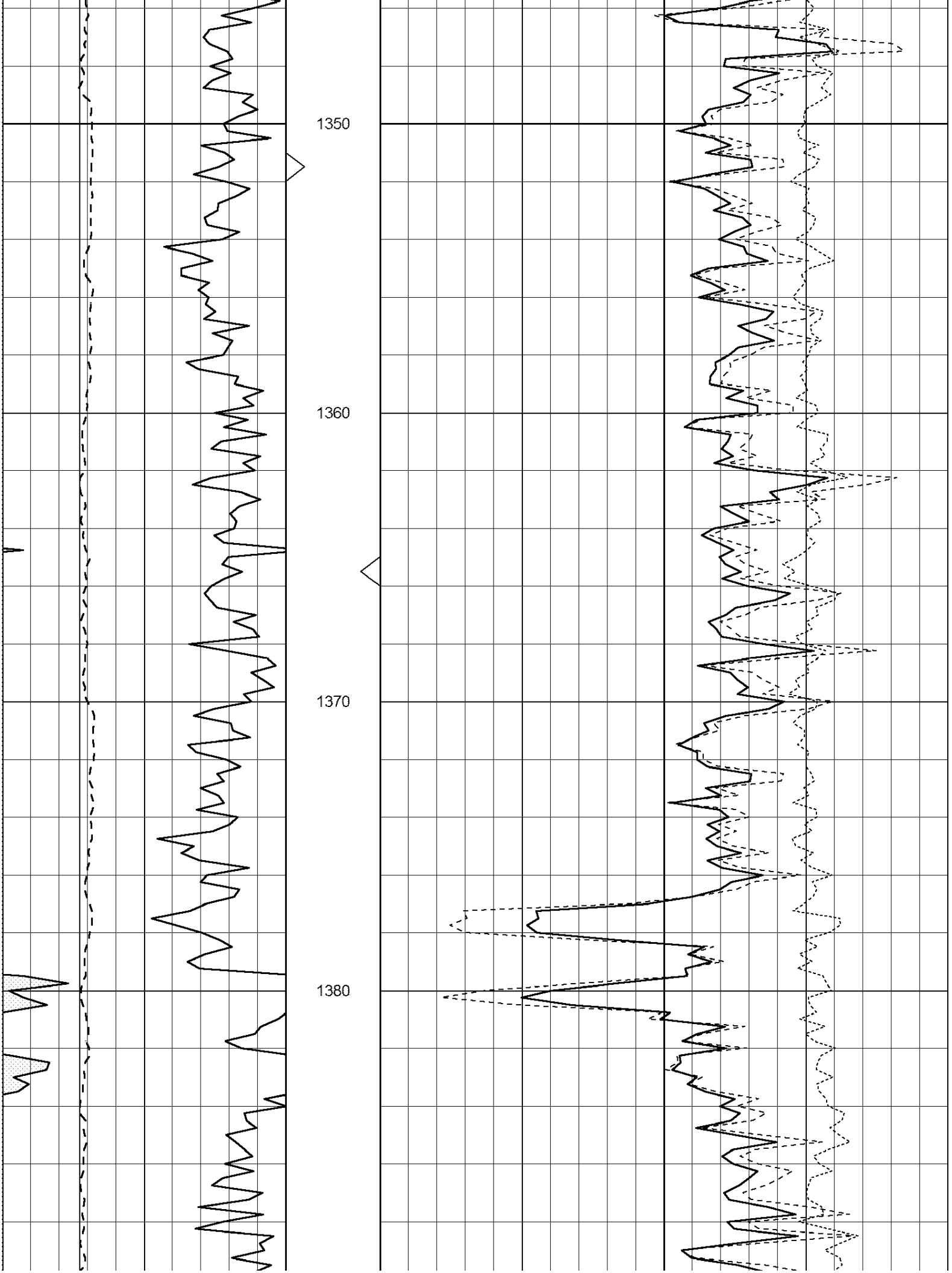
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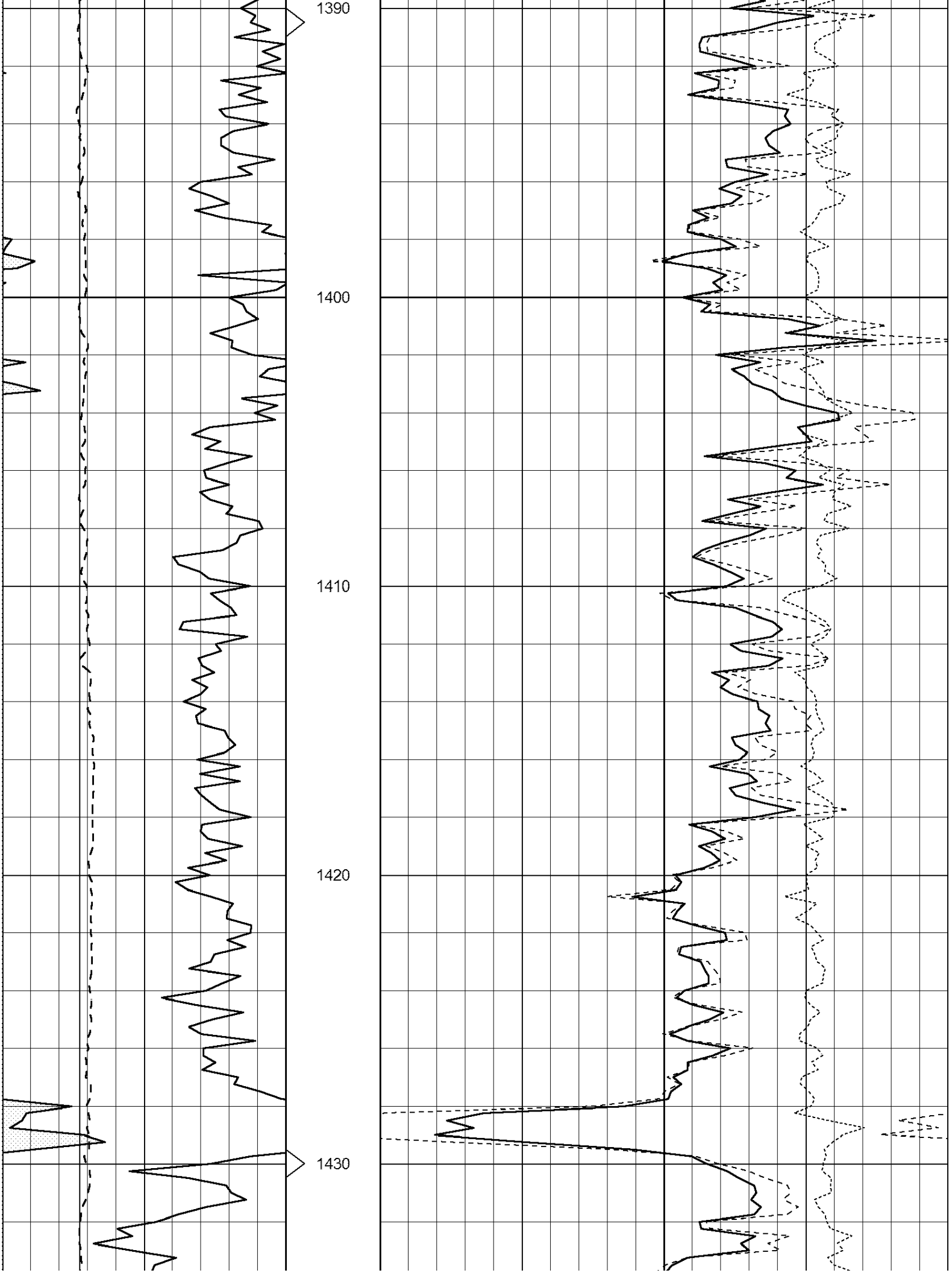
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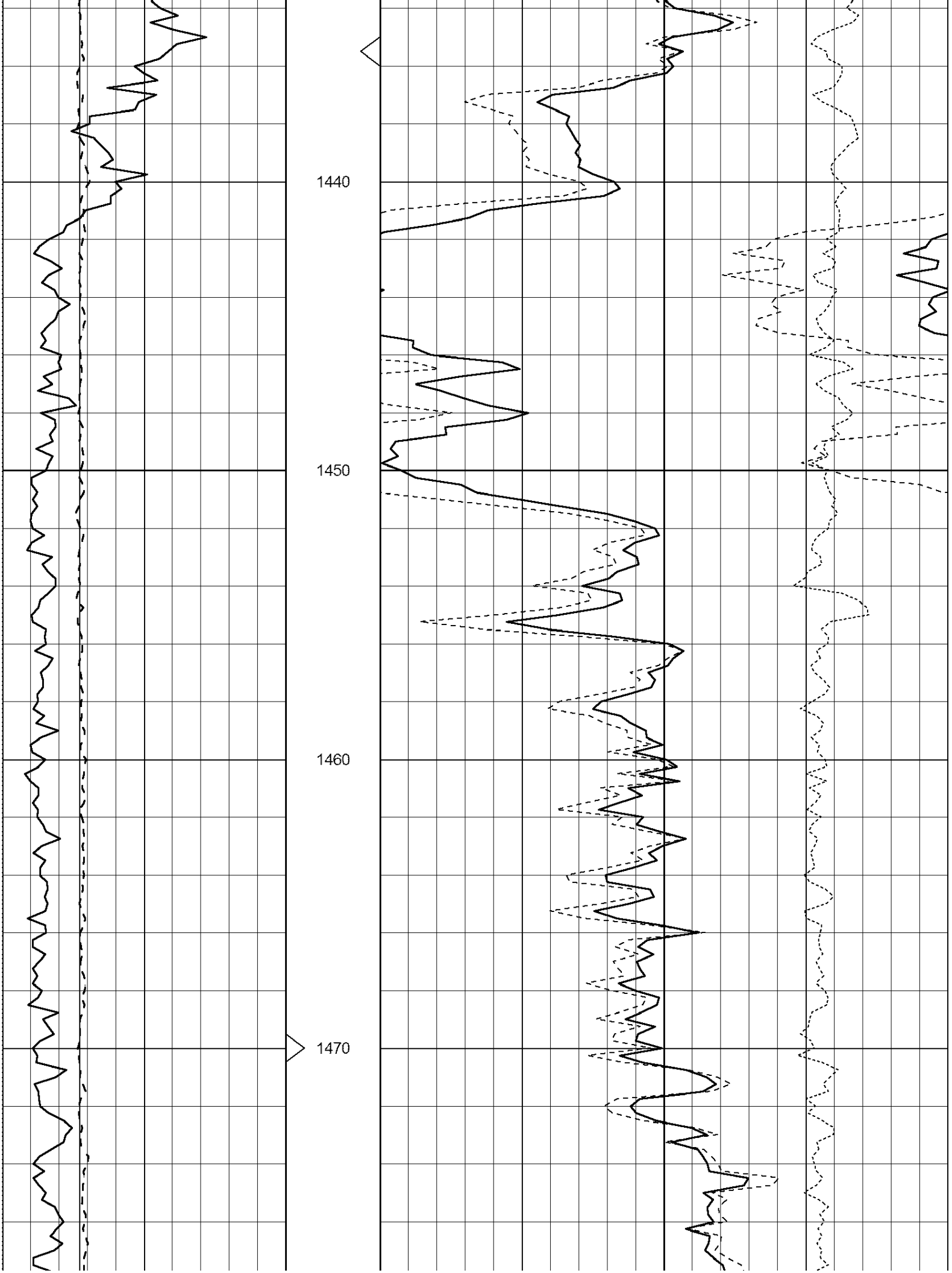
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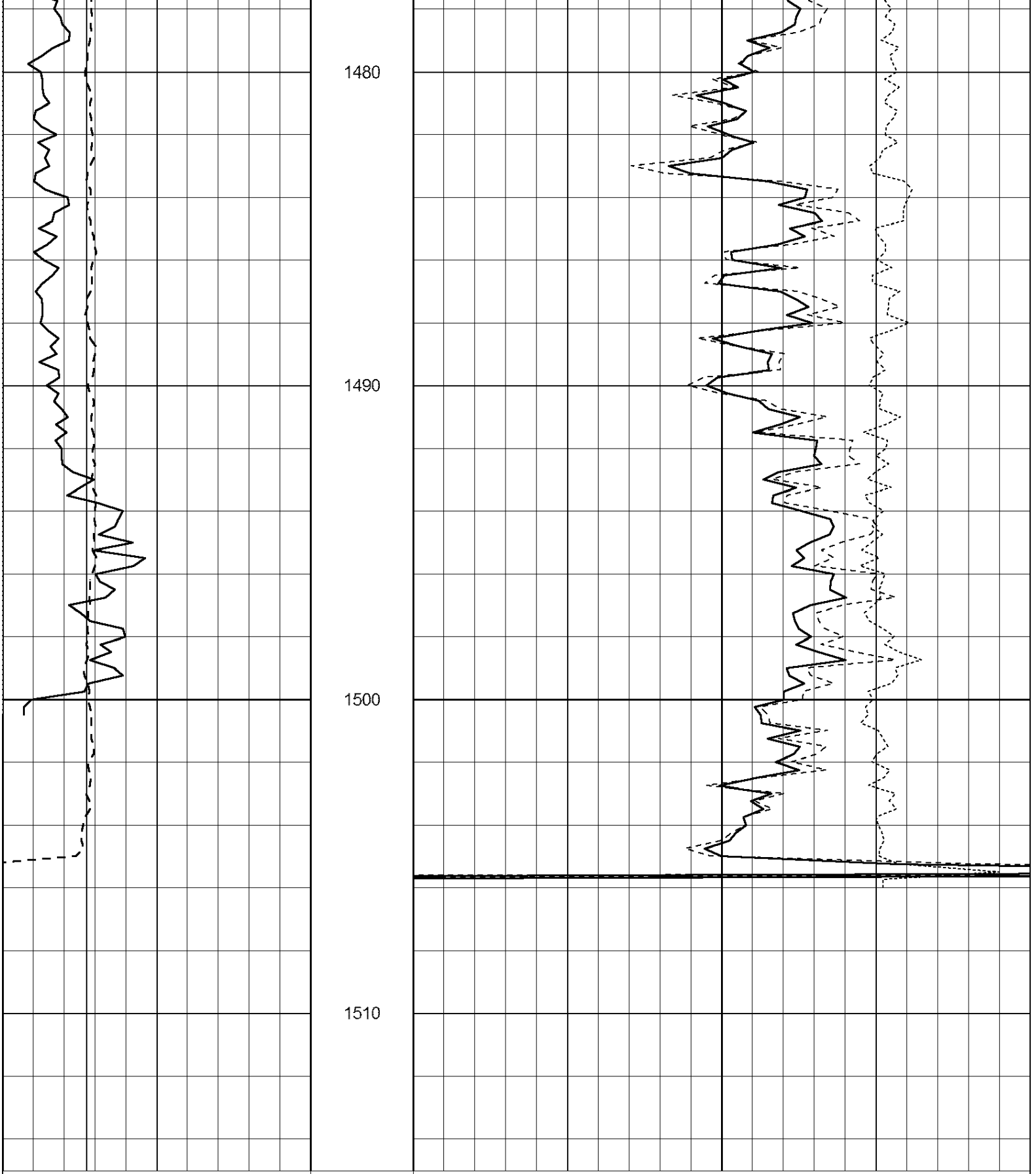
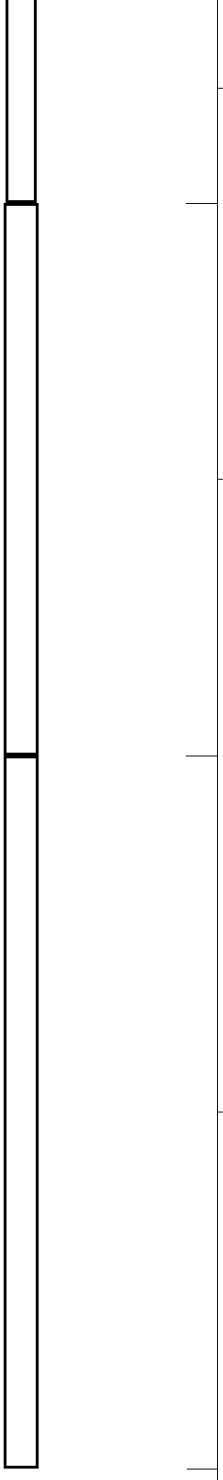


Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)



GR	15.00	OHGR-GOI (2122)	2.50	3.50	40.00
		CDL-GOI (2122)	6.00	4.00	150.00
DCAL	9.75				
LSD	9.42				
SSD	9.21				
		OHNEU-PROBEOP (1 11/16 NEU)	7.75	4.00	120.00
NEU	2.65				
SCAL	2.04				
SWN	1.65				

Dataset:	ow1-7847 layne energy.db: field/well/CDL/pass2.5
Total Length:	16.25 ft
Total Weight:	310.00 lb
O.D.	4.00 in