



**SUPERIOR**  
Hays,  
Kansas

**SONIC**  
LOG

Company CORAL COAST PETROLEUM, L.C.  
Well HARDEN #1  
Field MORRISON NORTHEAST  
County CLARK  
State KANSAS

Company CORAL COAST PETROLEUM, L.C.  
Well HARDEN #1  
Field MORRISON NORTHEAST  
County CLARK State KANSAS

Location: API # : 15-025-21545-0000  
1720' FSL & 2290' FEL  
SEC 16 TWP 32S RGE 21W  
Permanent Datum GROUND LEVEL Elevation 2111  
Log Measured From KELLY BUSHING 10' A.G.L.  
Drilling Measured From KELLY BUSHING  
Other Services  
CDL/CNL/PE  
DIL/MEL  
Elevation  
K.B. 2121  
D.F. 2119  
G.L. 2111

Date	9/19/12
Run Number	TWO
Depth Driller	6690
Depth Logger	6688
Bottom Logged Interval	6678
Top Log Interval	600
Casing Driller	8 5/8"@636'
Casing Logger	638
Bit Size	7 7/8"
Type Fluid in Hole	CHEMICAL MUD
Density / Viscosity	9.065
pH / Fluid Loss	11.0/8.8
Source of Sample	FLOWLINE
Rm @ Meas. Temp	.440@88F
Rmt @ Meas. Temp	.330@88F
Rmc @ Meas. Temp	.528@88F
Source of Rmf / Rmc	MEASUREMENT
Rm @ BHT	.277@140F
Time Circulation Stopped	6 HOURS
Time Logger on Bottom	7:45 P.M.
Maximum Recorded Temperature	140F
Equipment Number	4010
Location	HAYS, KANSAS
Recorded By	JEFF LUEBBERS
Witnessed By	KEITH REAVIS

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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**

THANK YOU FOR USING SUPERIOR WELL SERVICE HAYS, KANSAS (785) 628-6395  
DIRECTIONS  
PROTECTION, KS. 6W. ON HWY 160 TO "RD. 30", 4N. TO CATTLE GUARD, 1W. IN PASTURE TO  
SECOND CATTLE GUARD, FOLLOW TRAIL I MORE MILE W. & N.

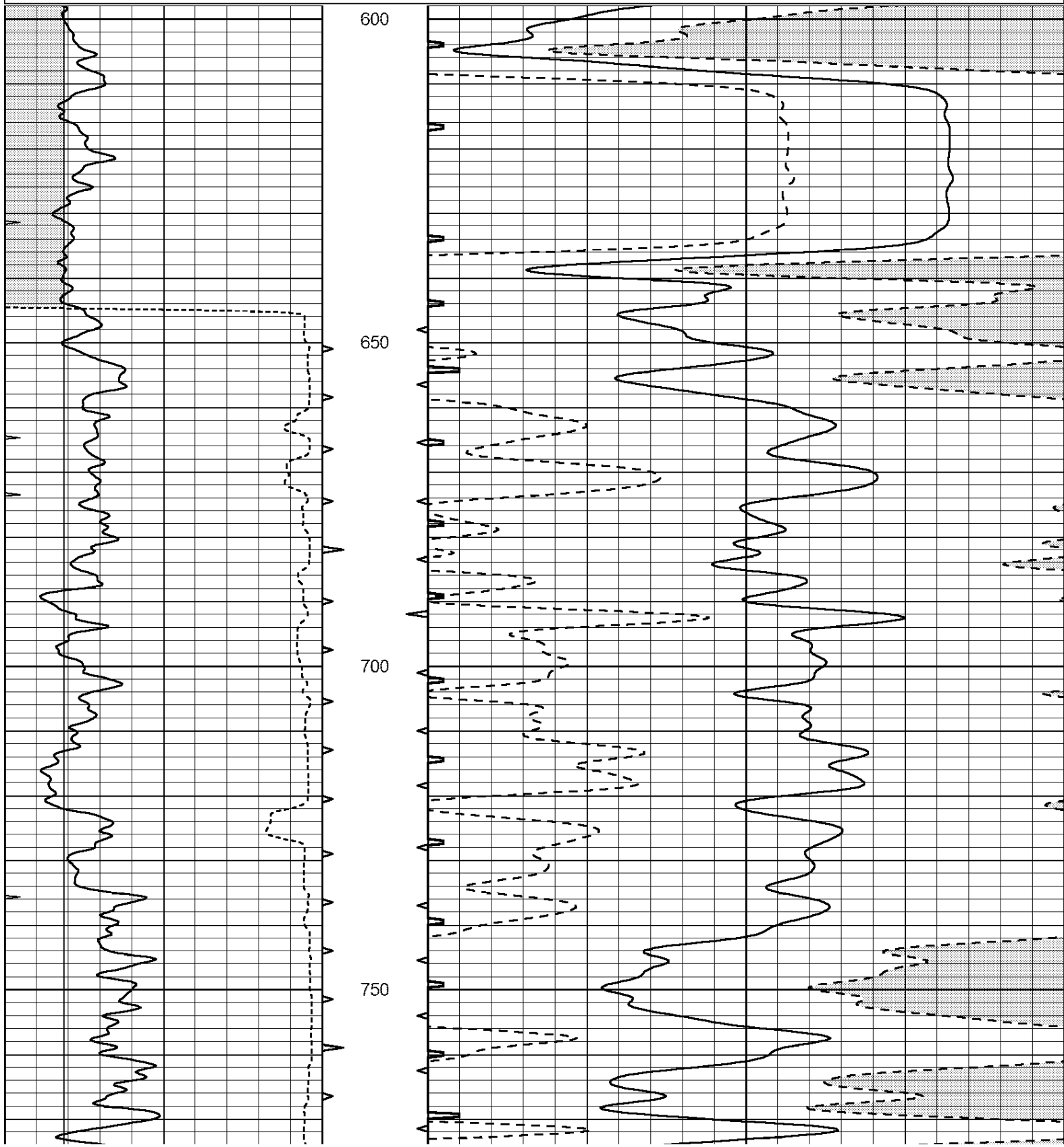


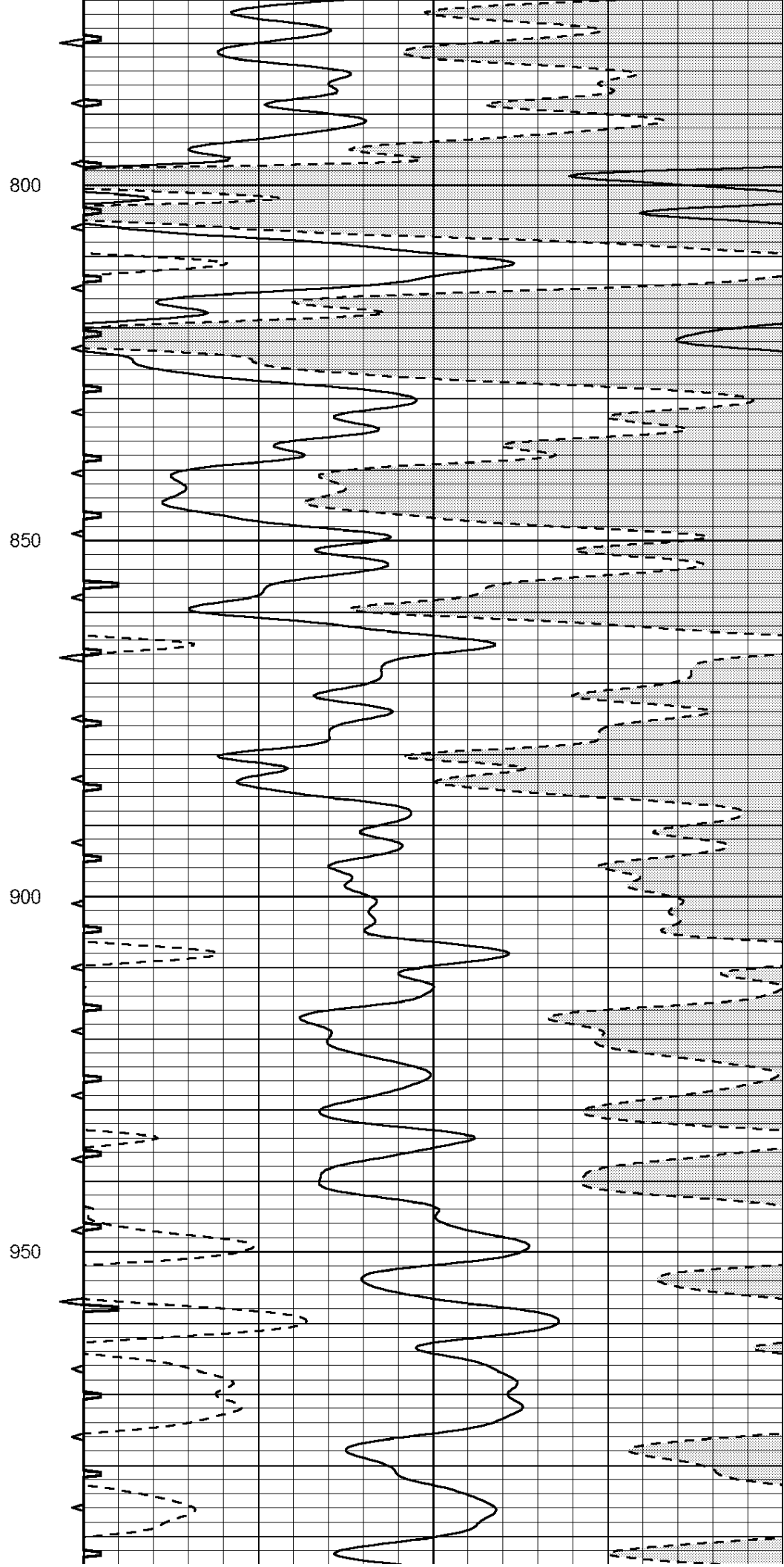
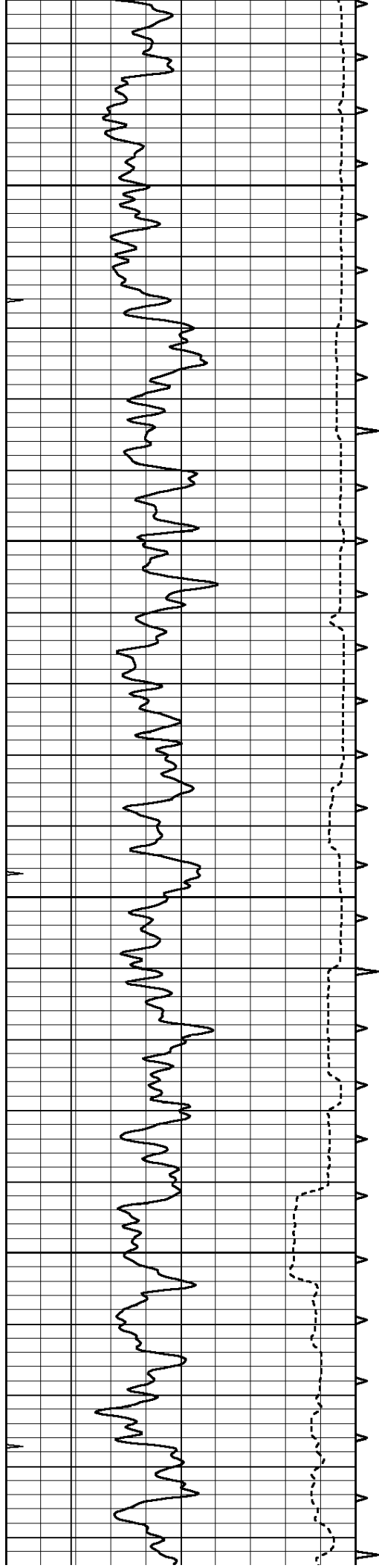
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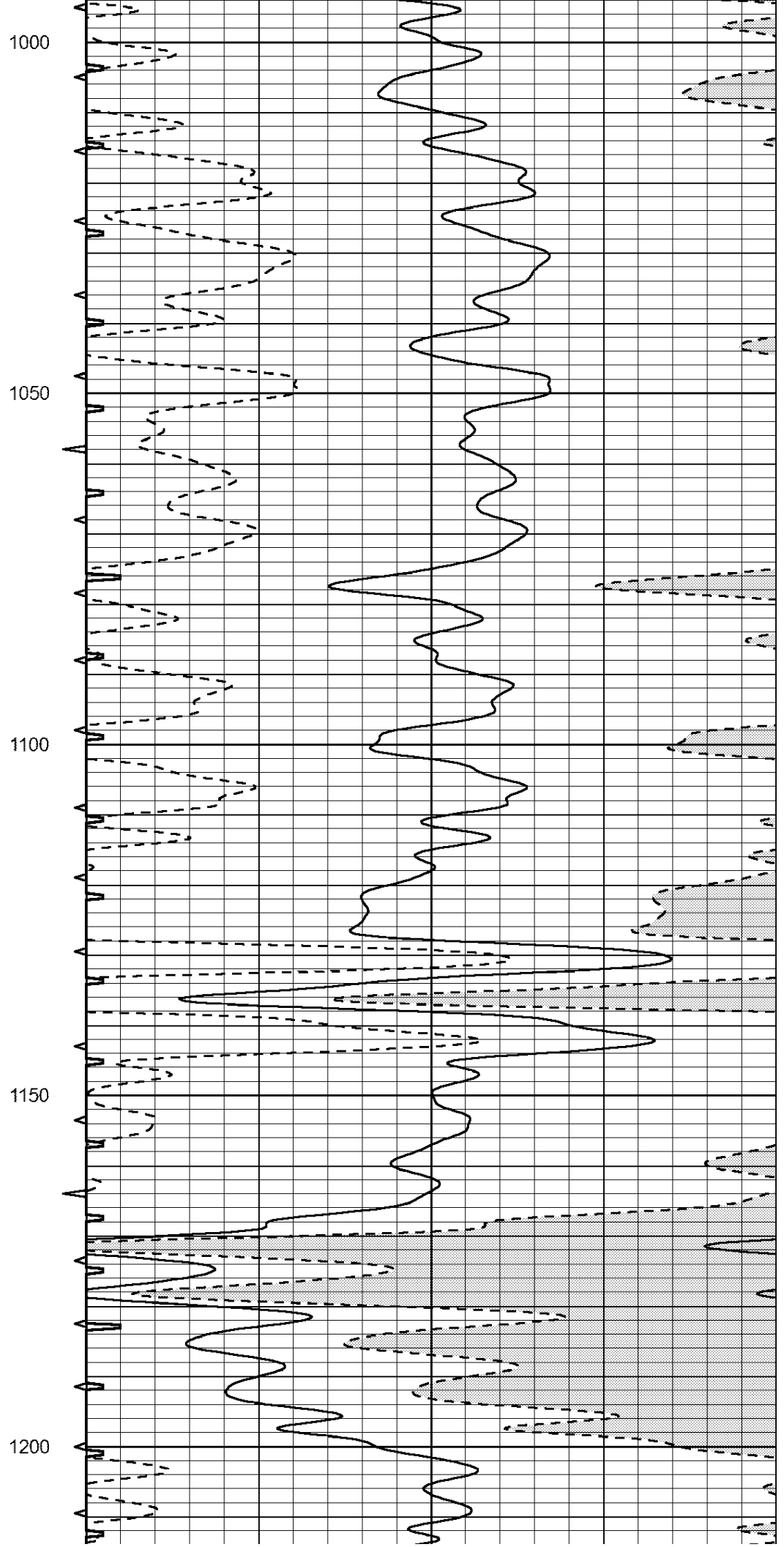
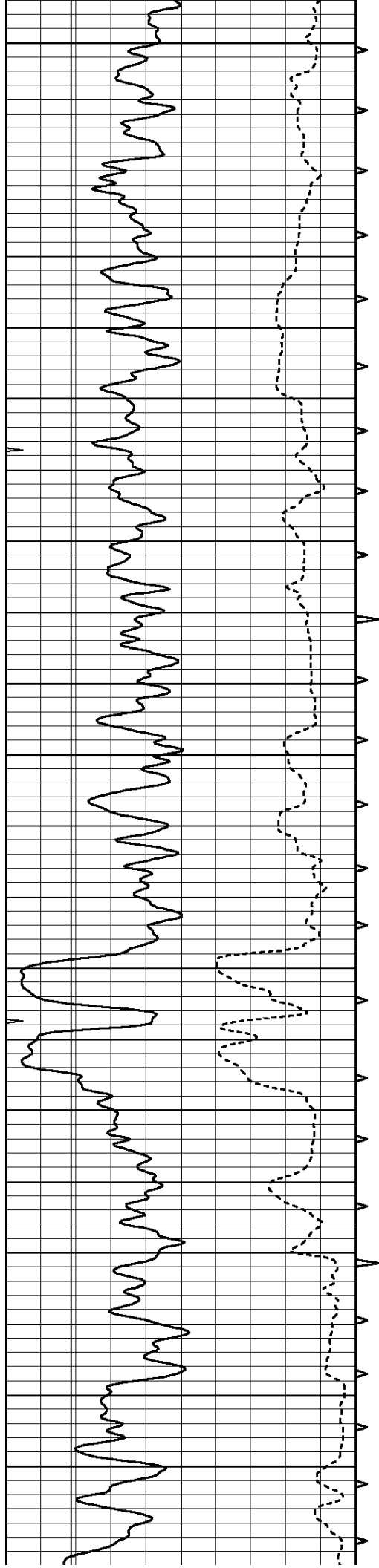
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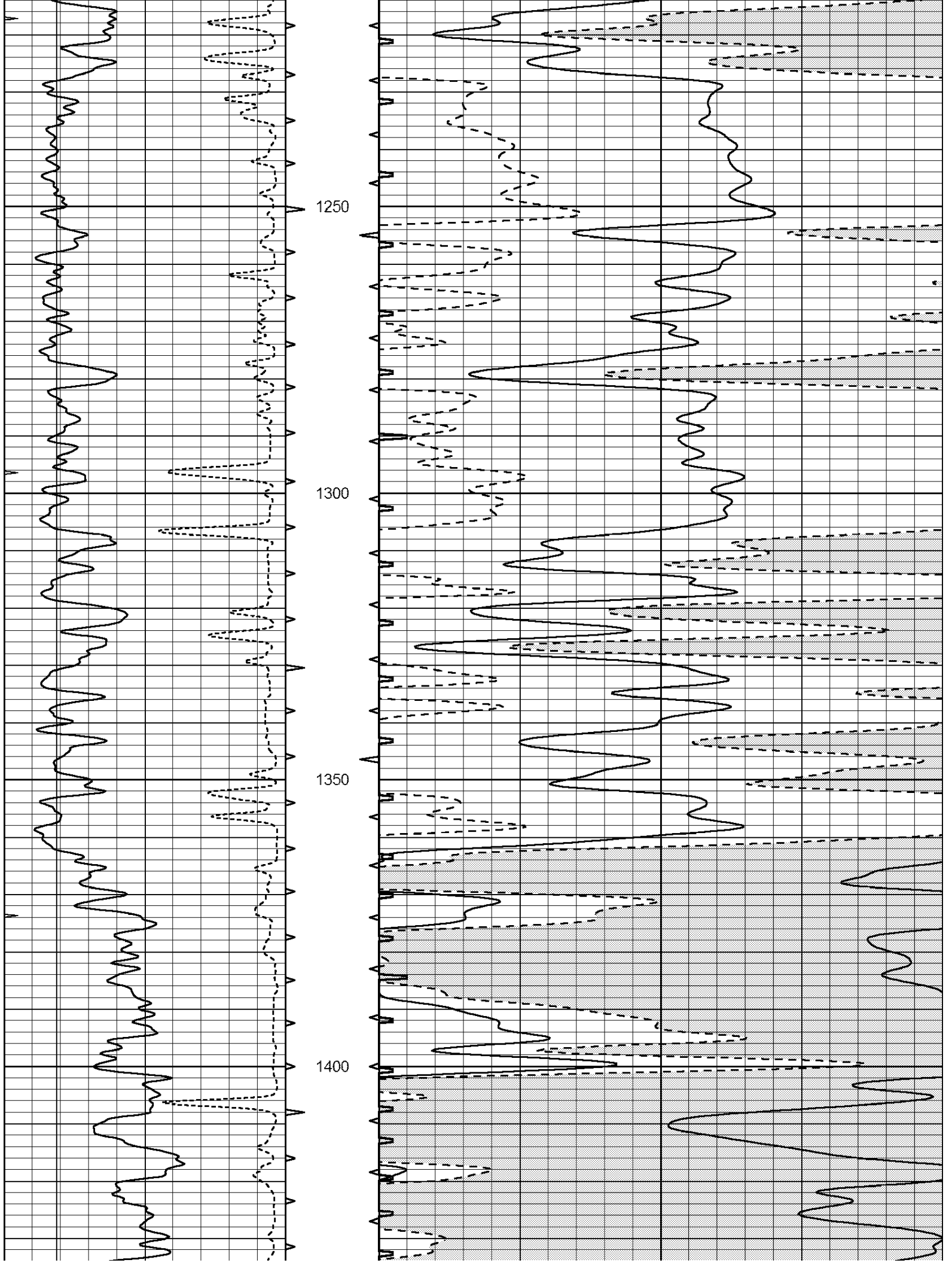
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 Presentation Format: slt  
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 Charted by: Depth in Feet scaled 1:240

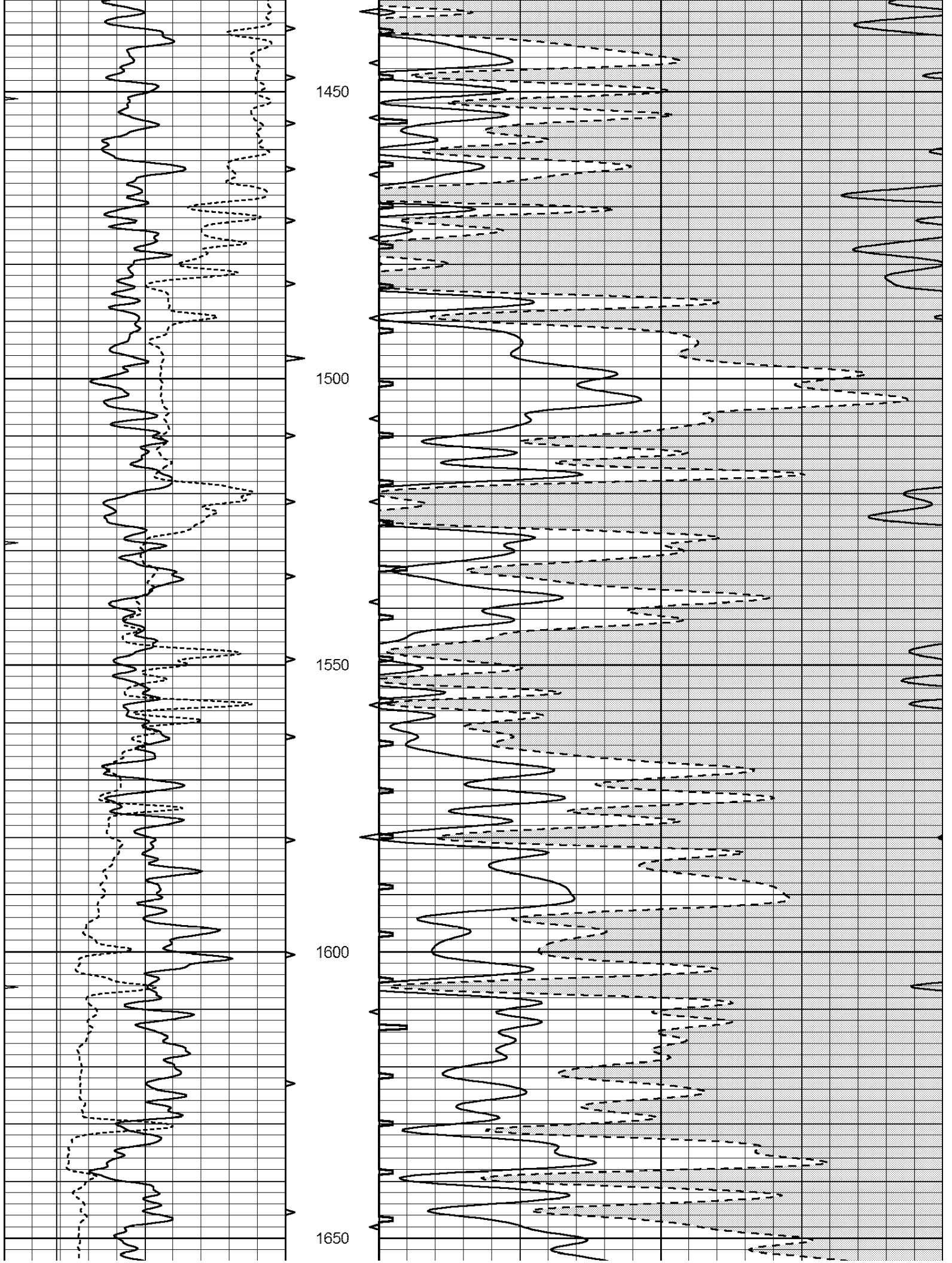
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6	CALIPER (in)	16	10 (ft3) 0	30	SONIC POROSITY (pu)	-10
0	MINMK	20	TBHV	0	ITT (msec)	20
			0 (ft3) 10			

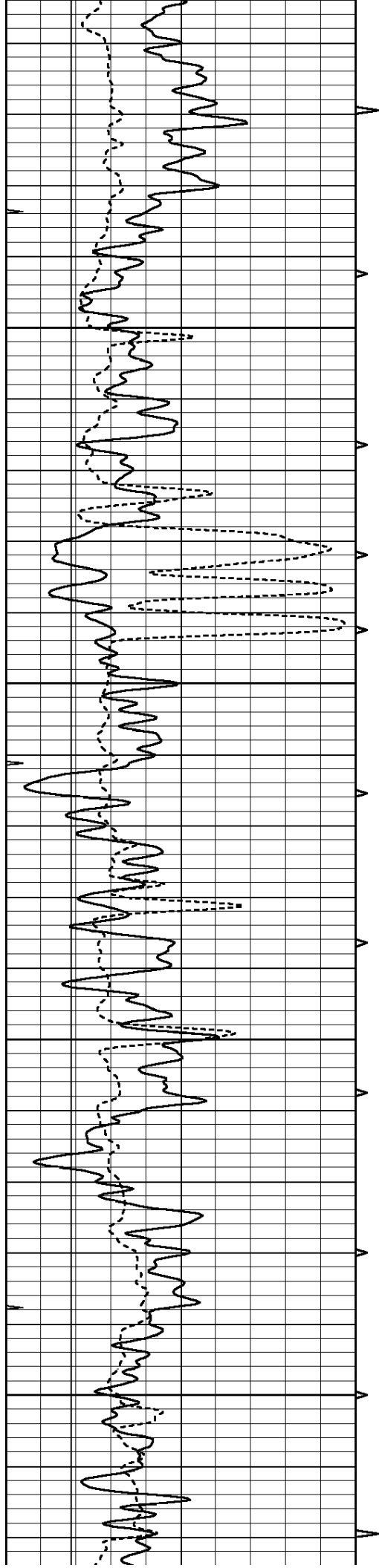










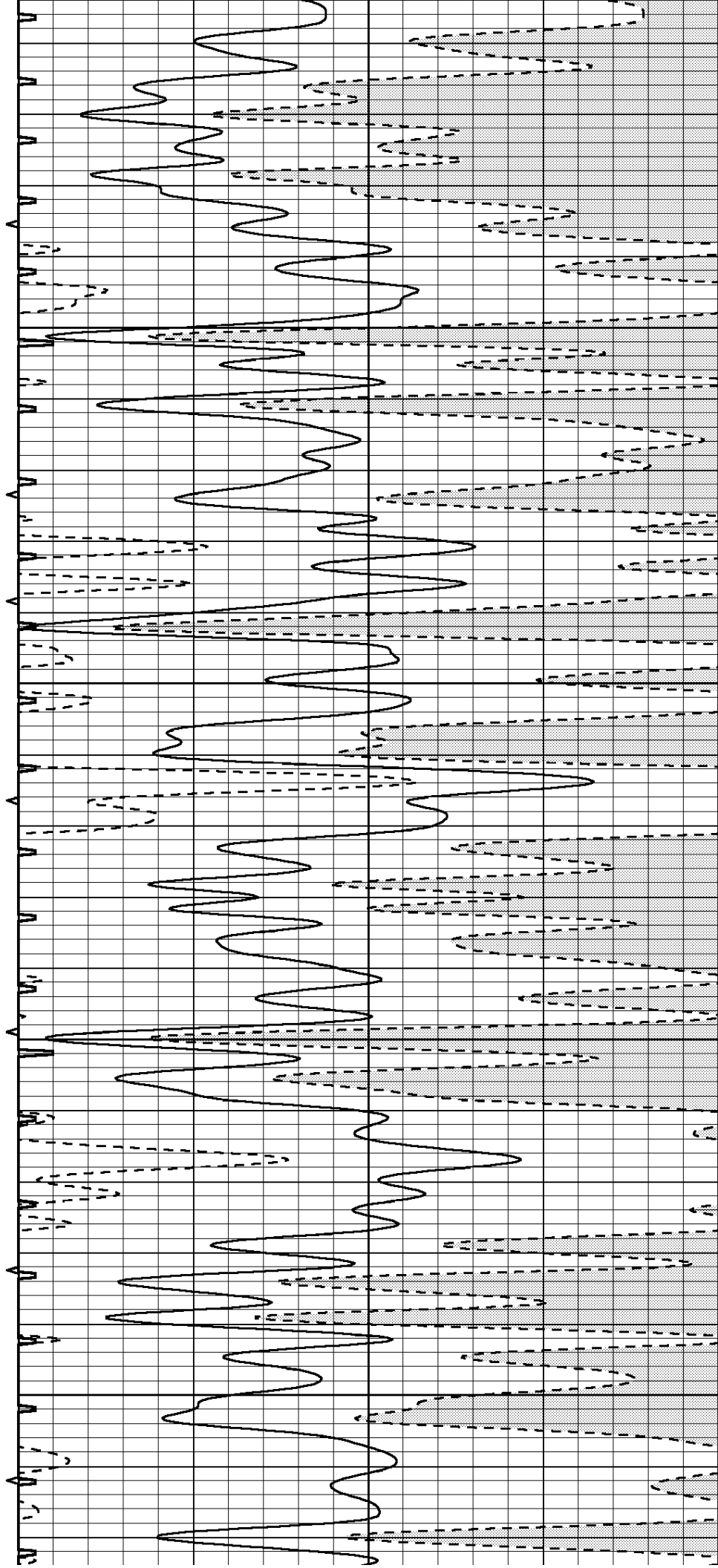


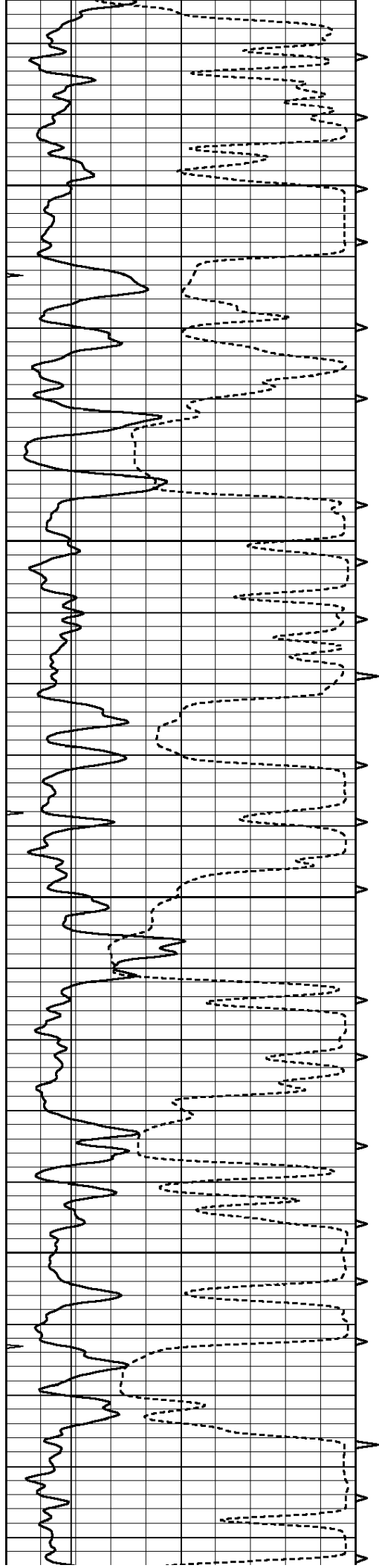
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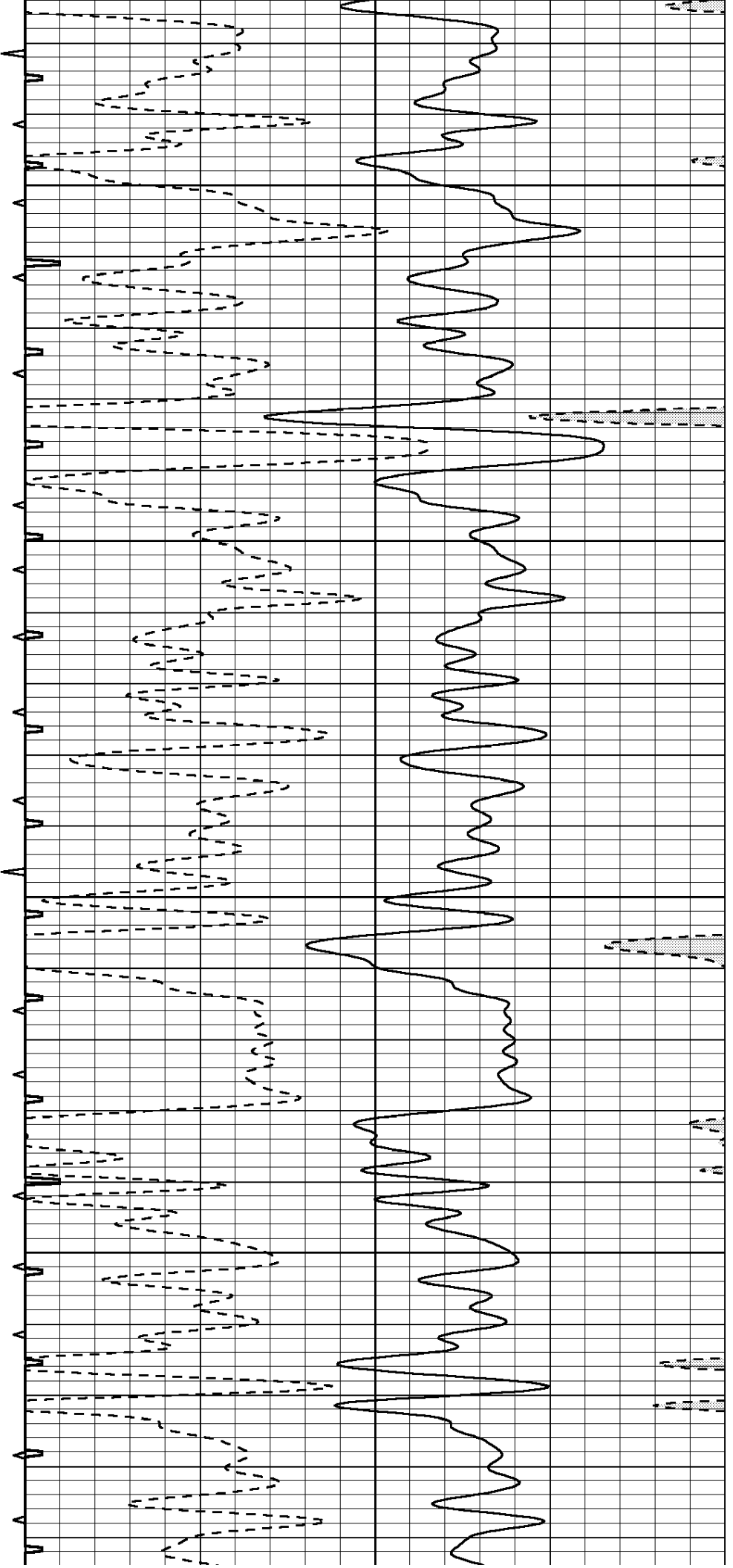


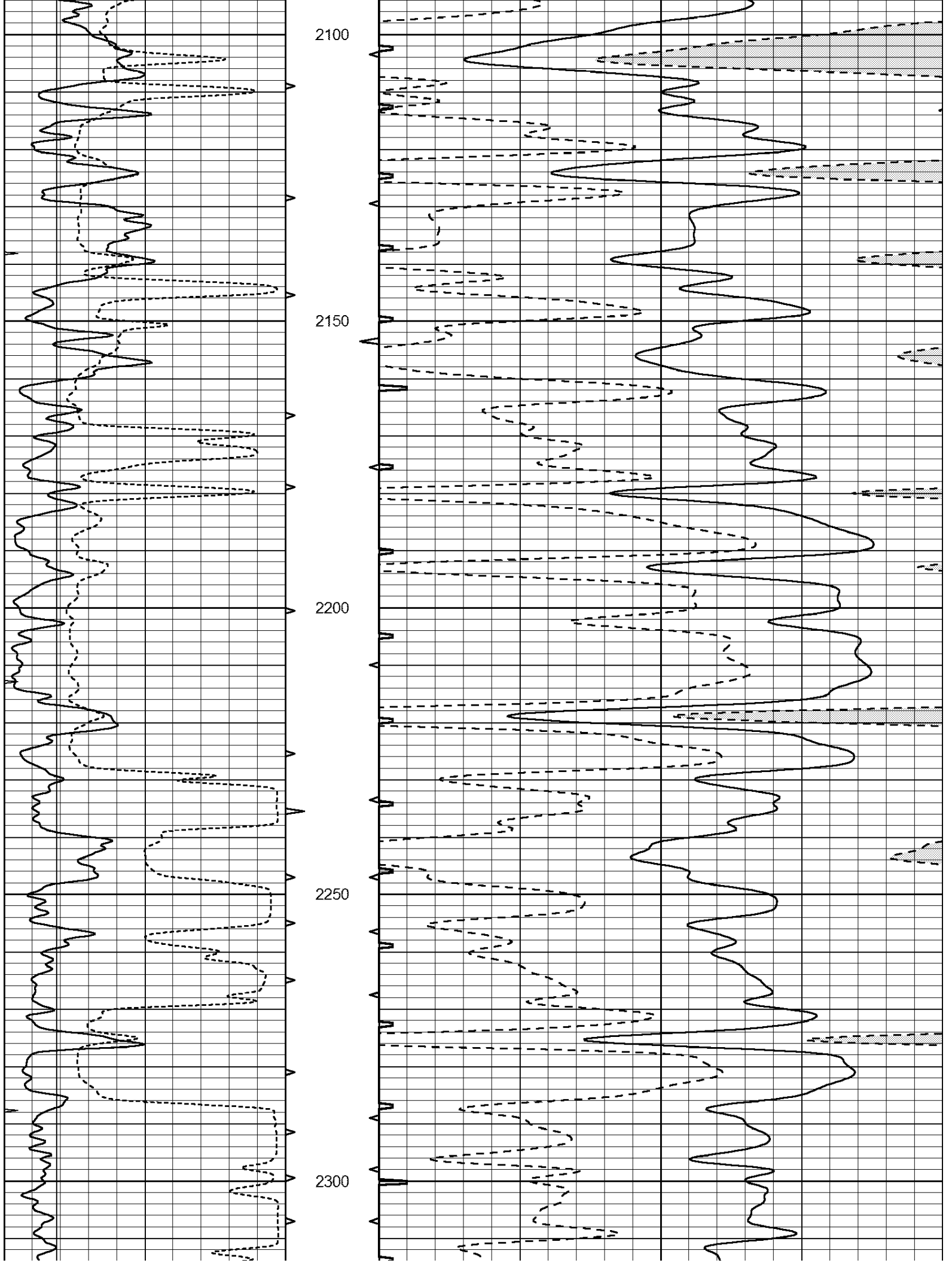
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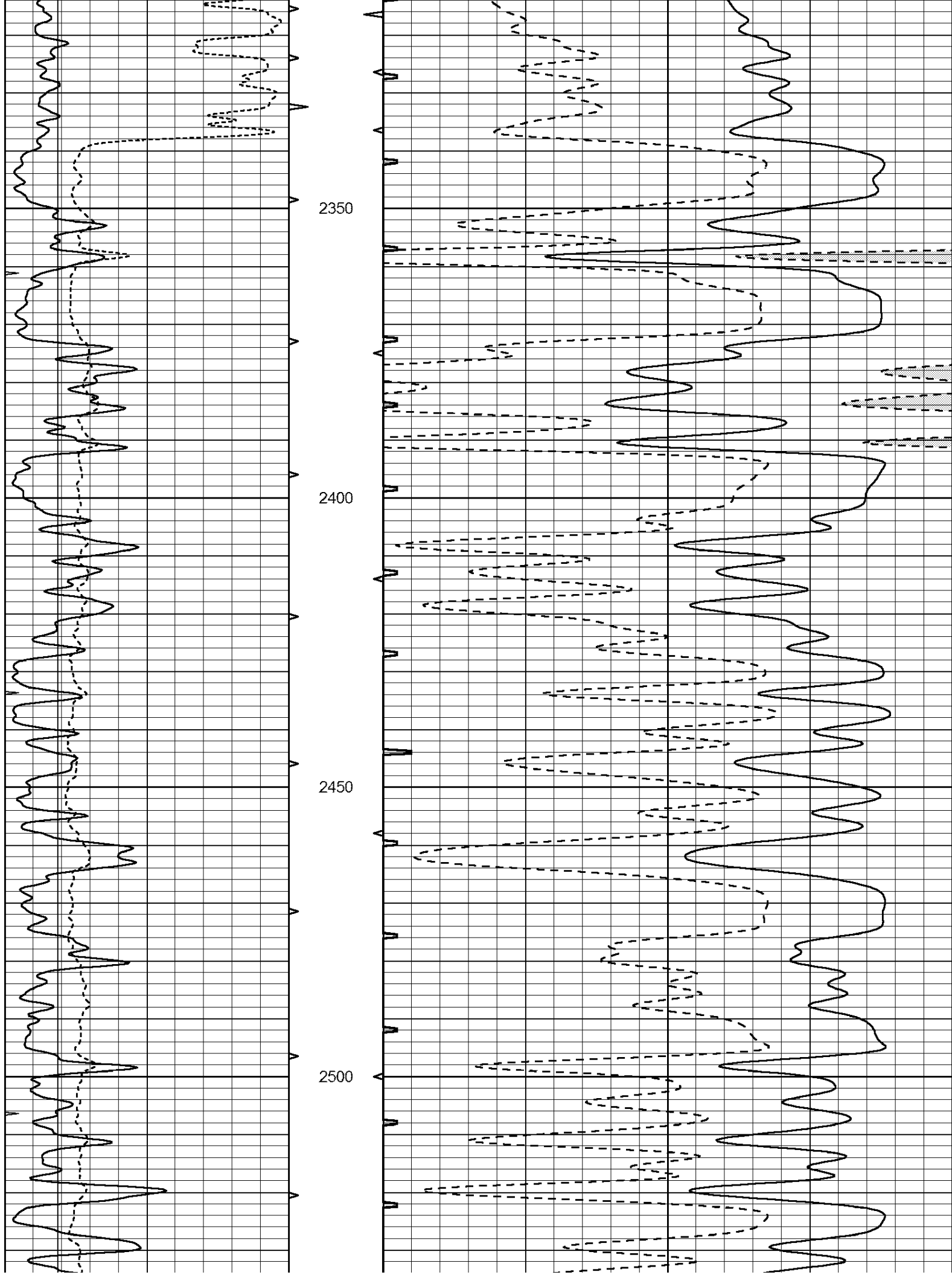
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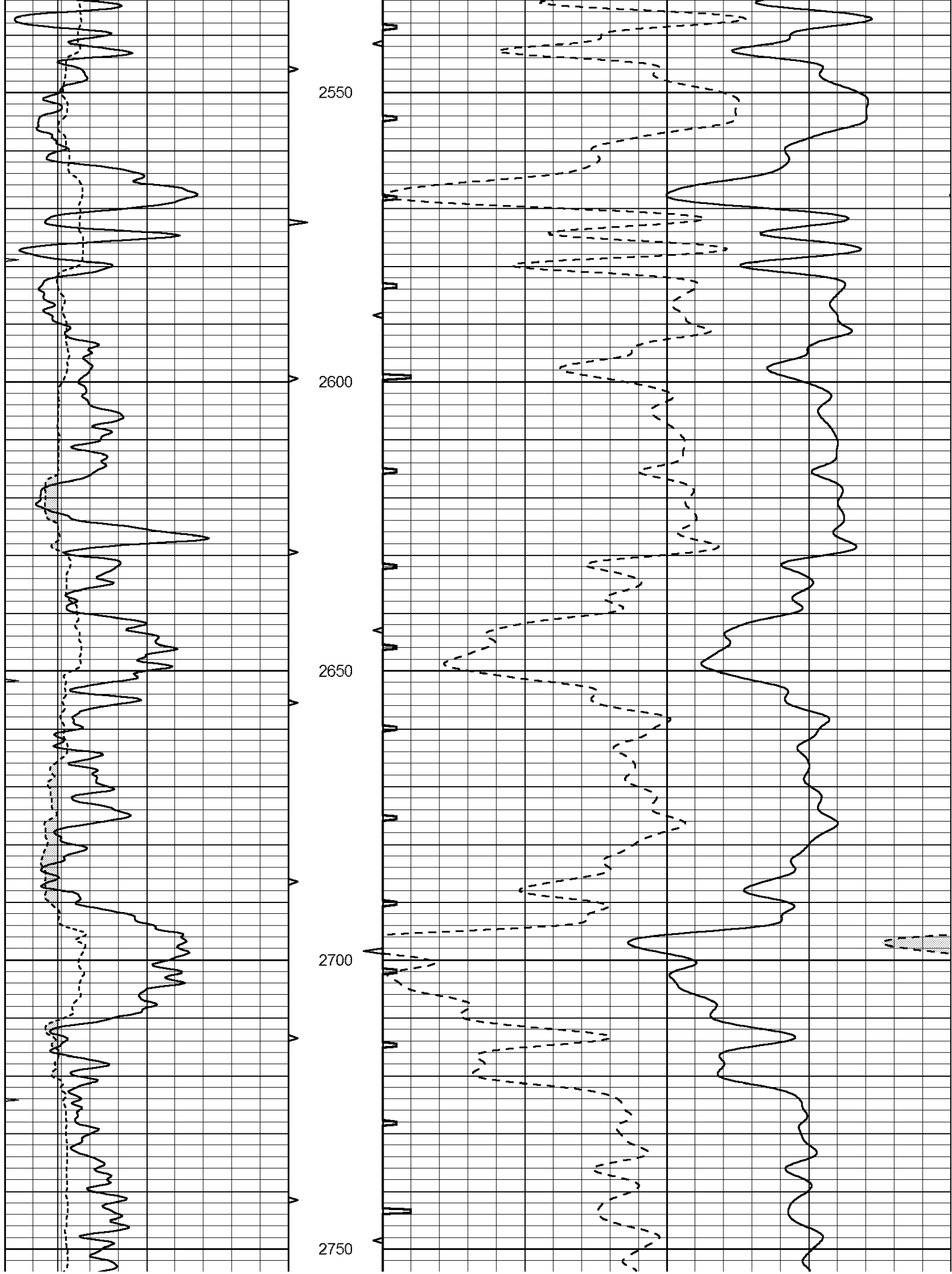
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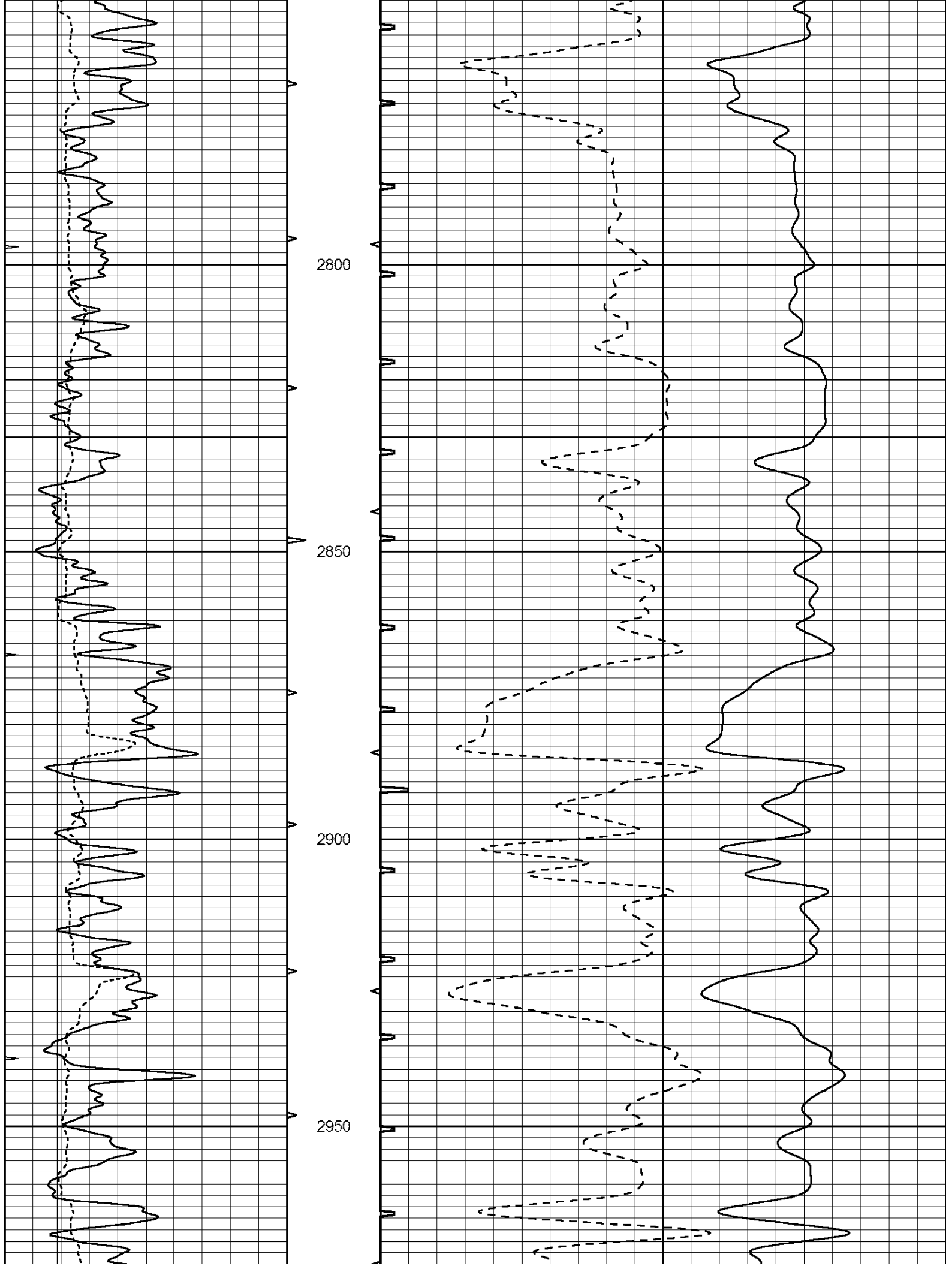
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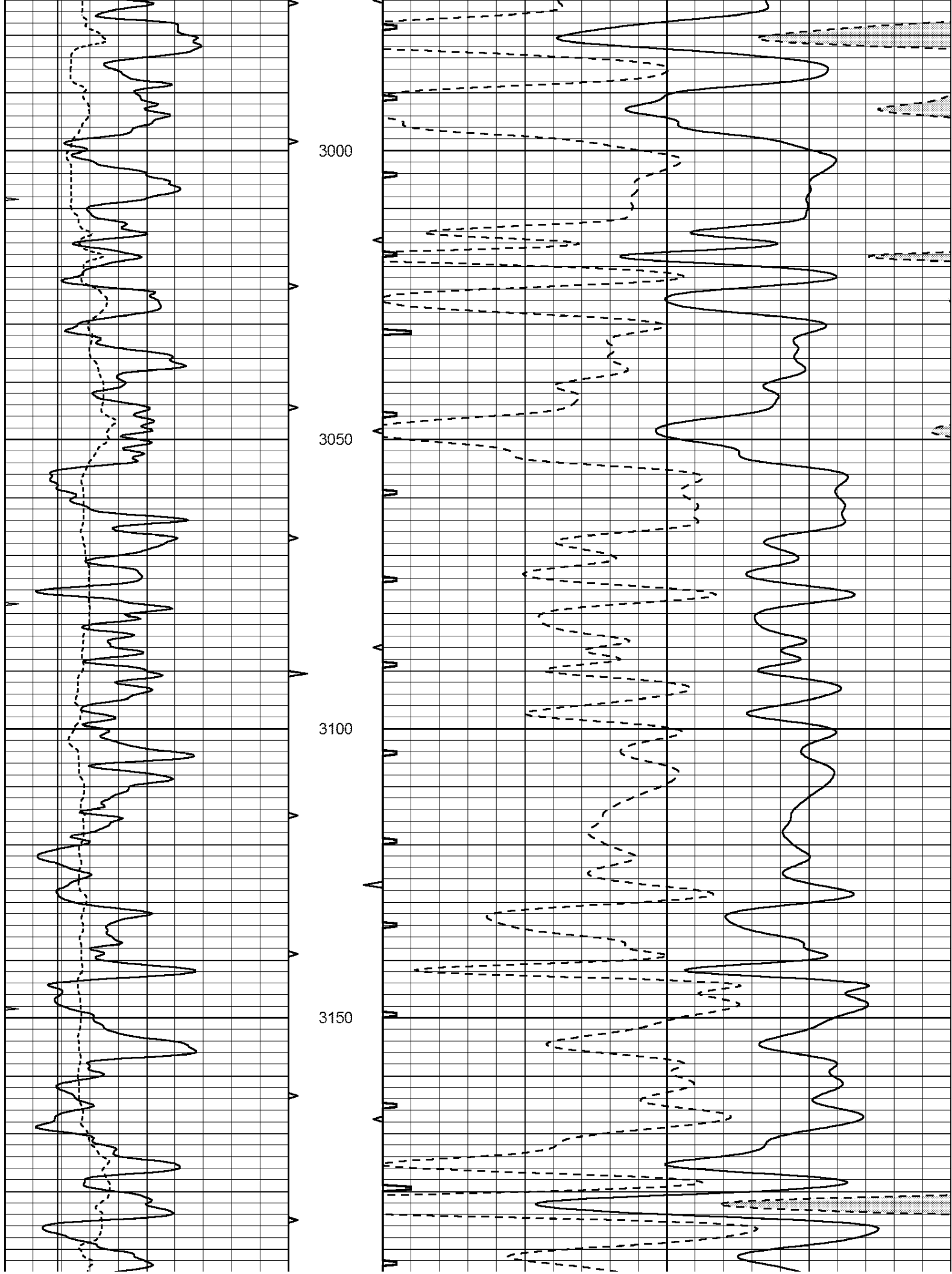


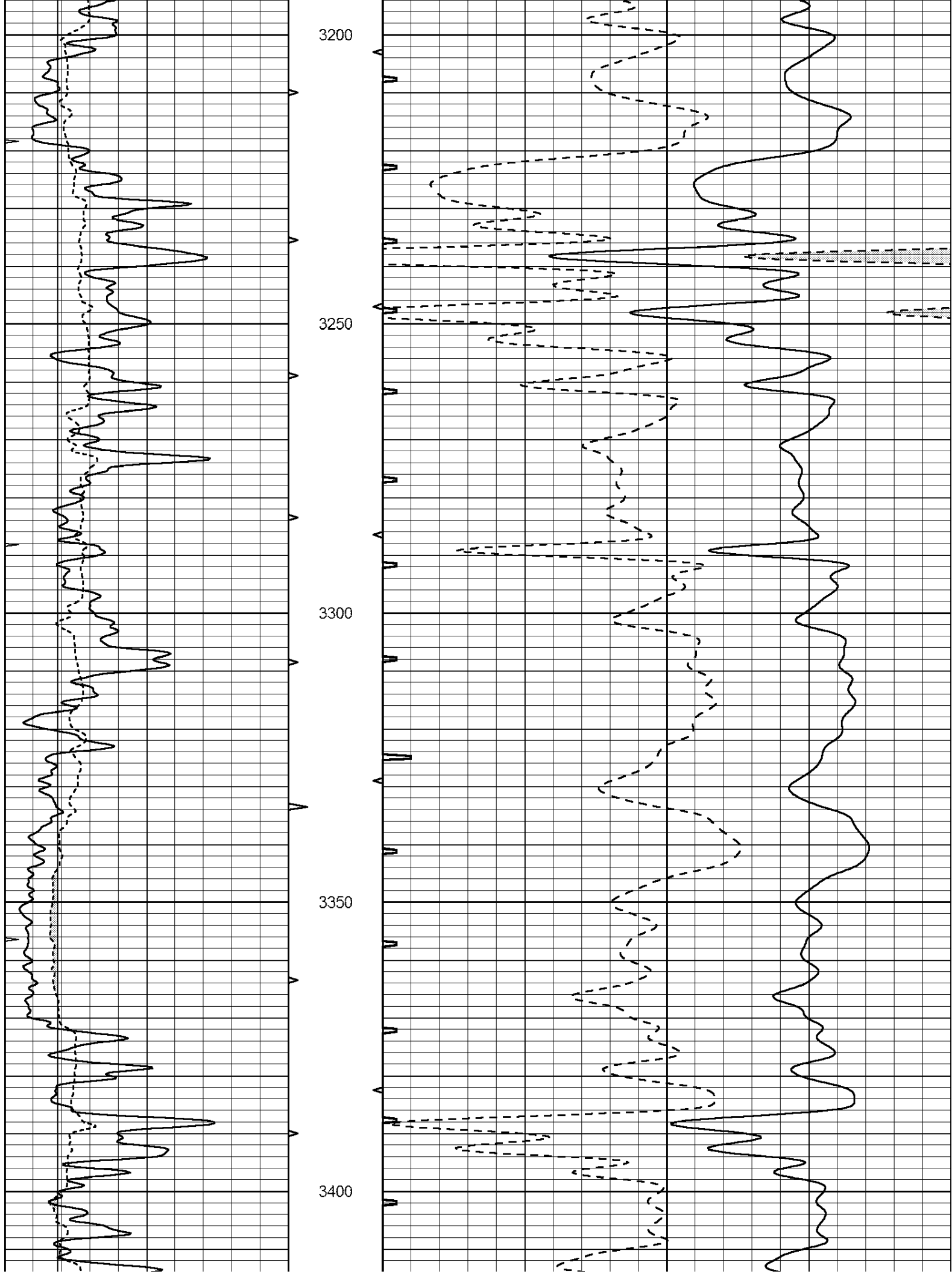


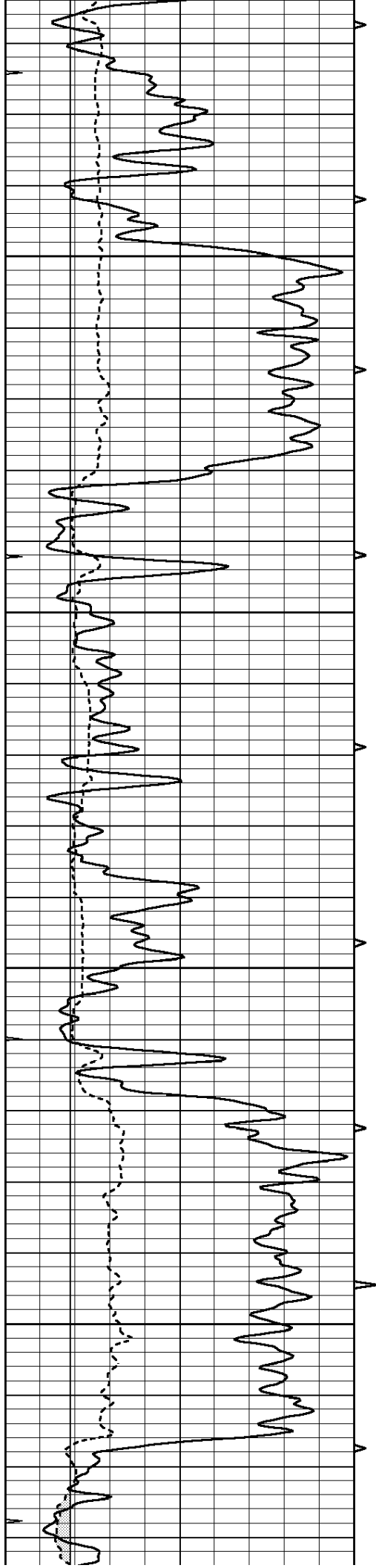










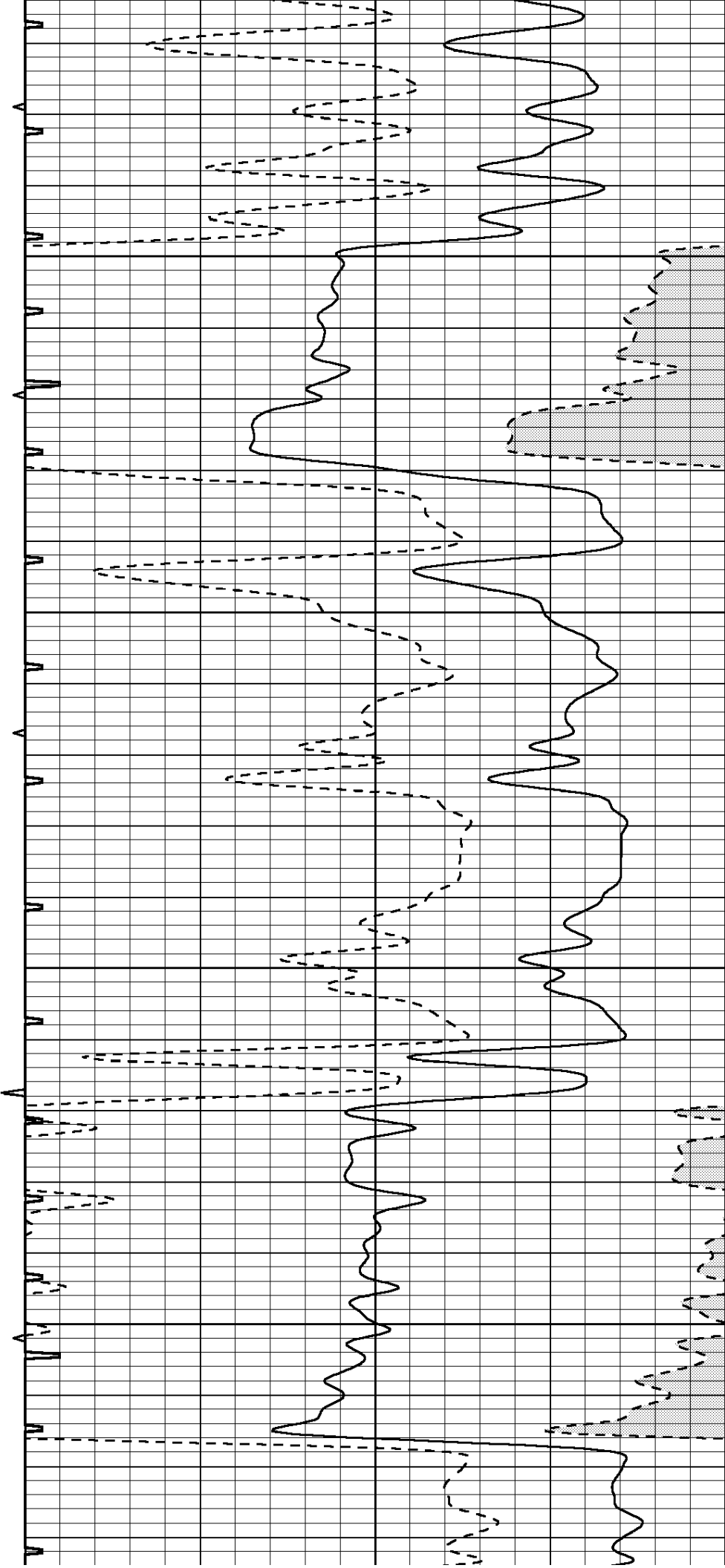


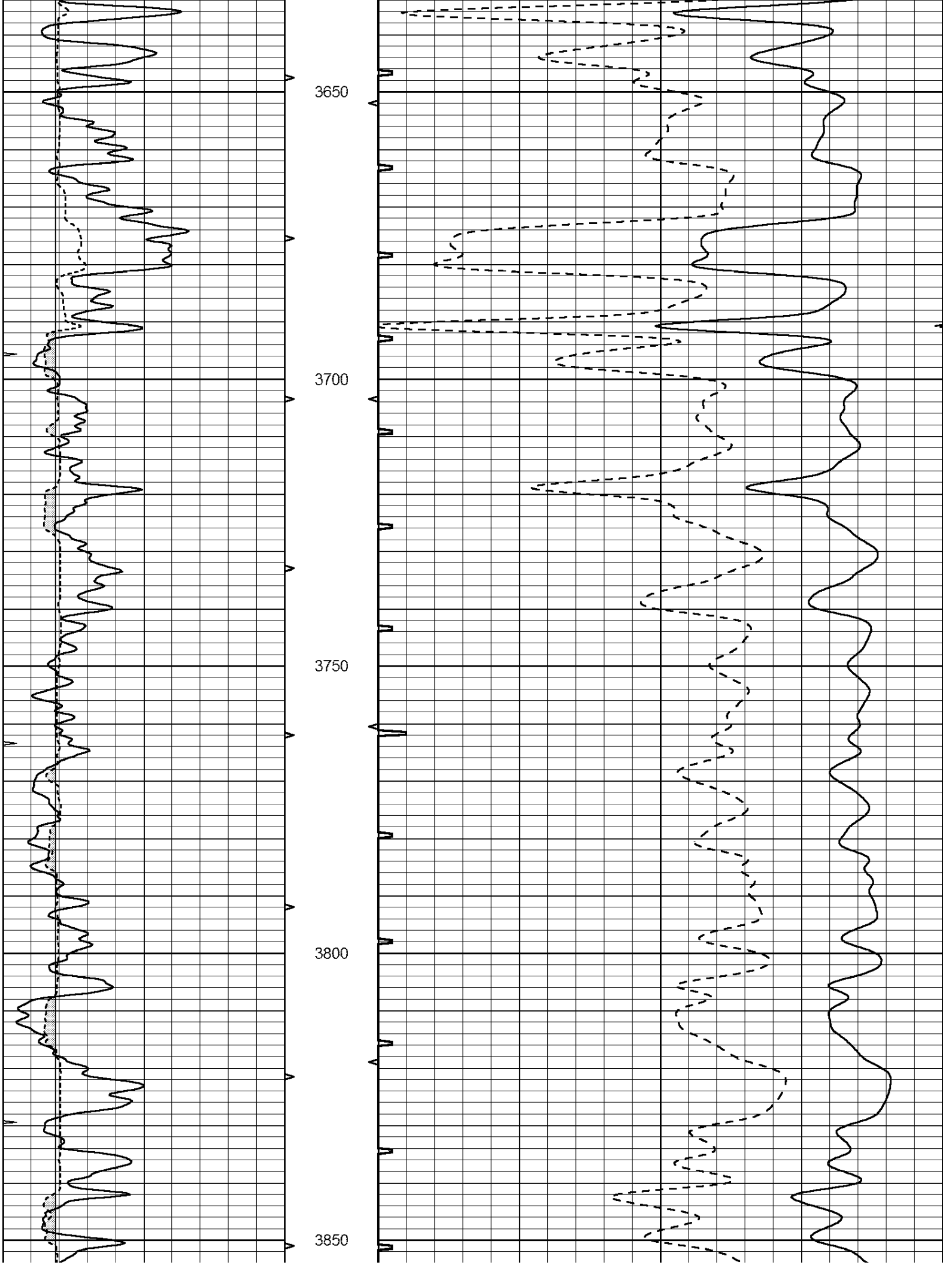
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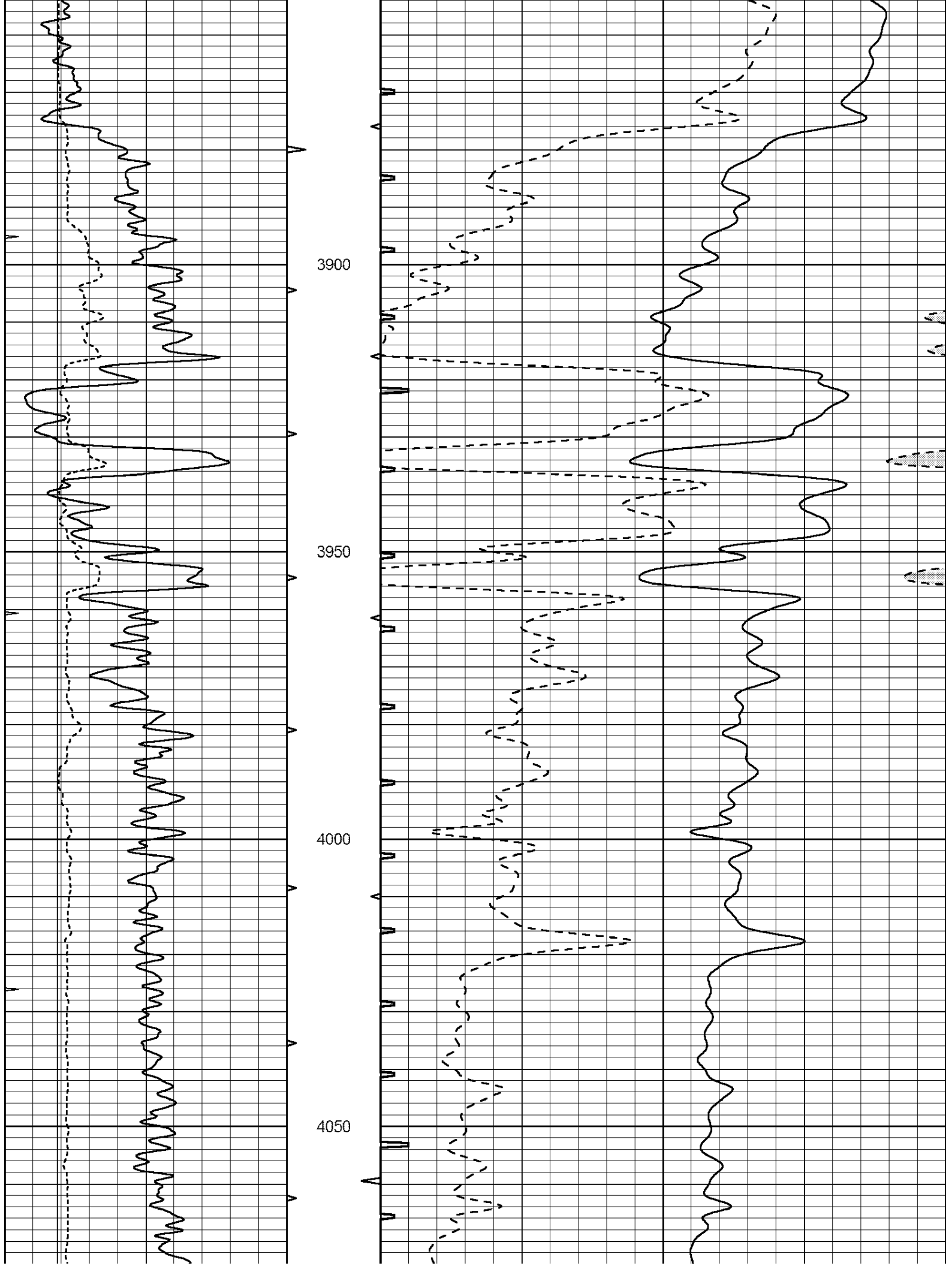
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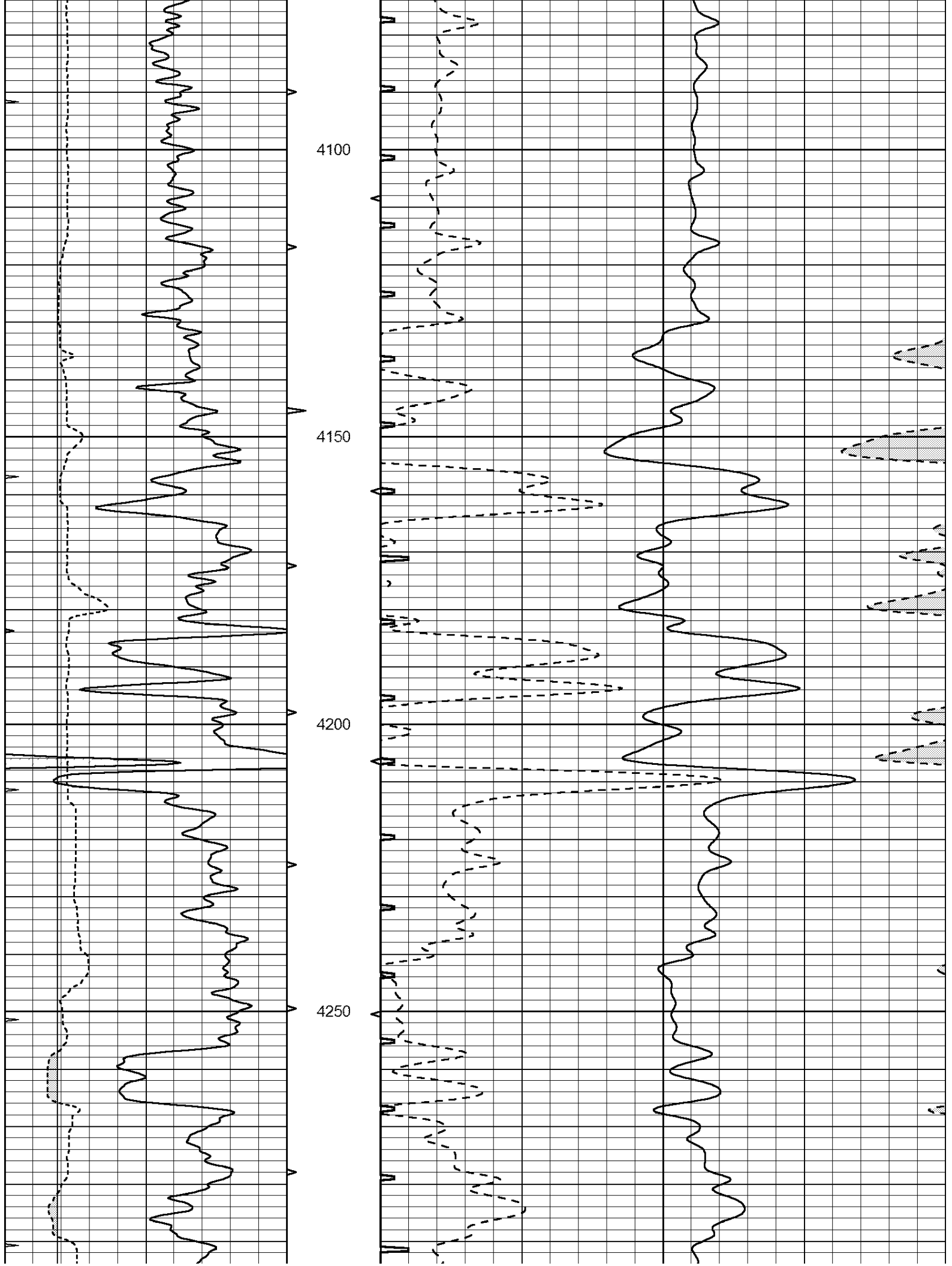
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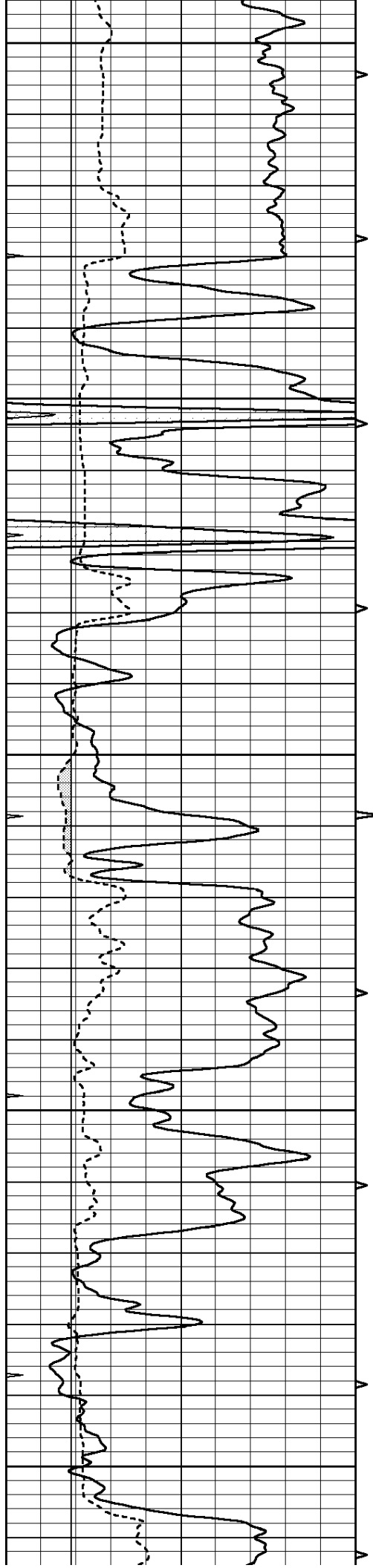
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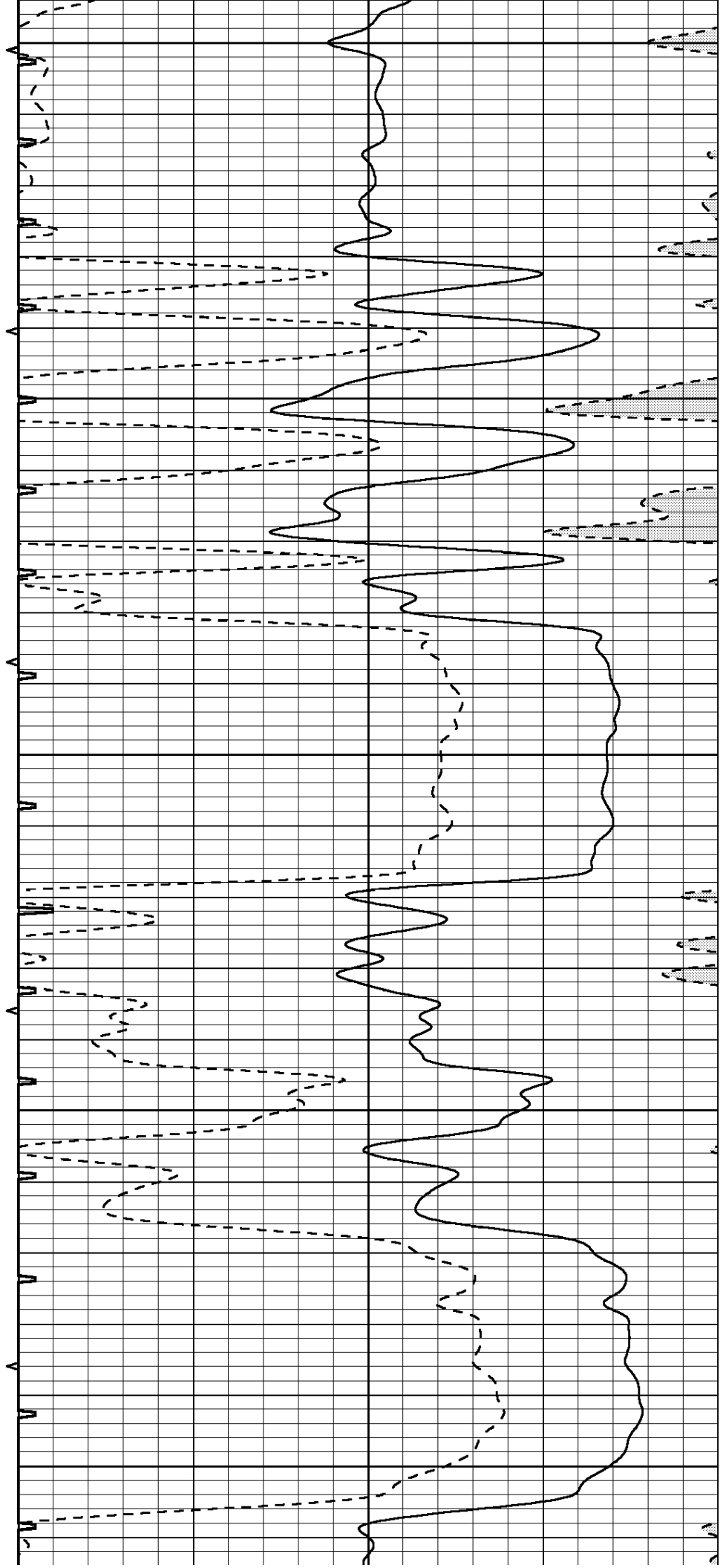


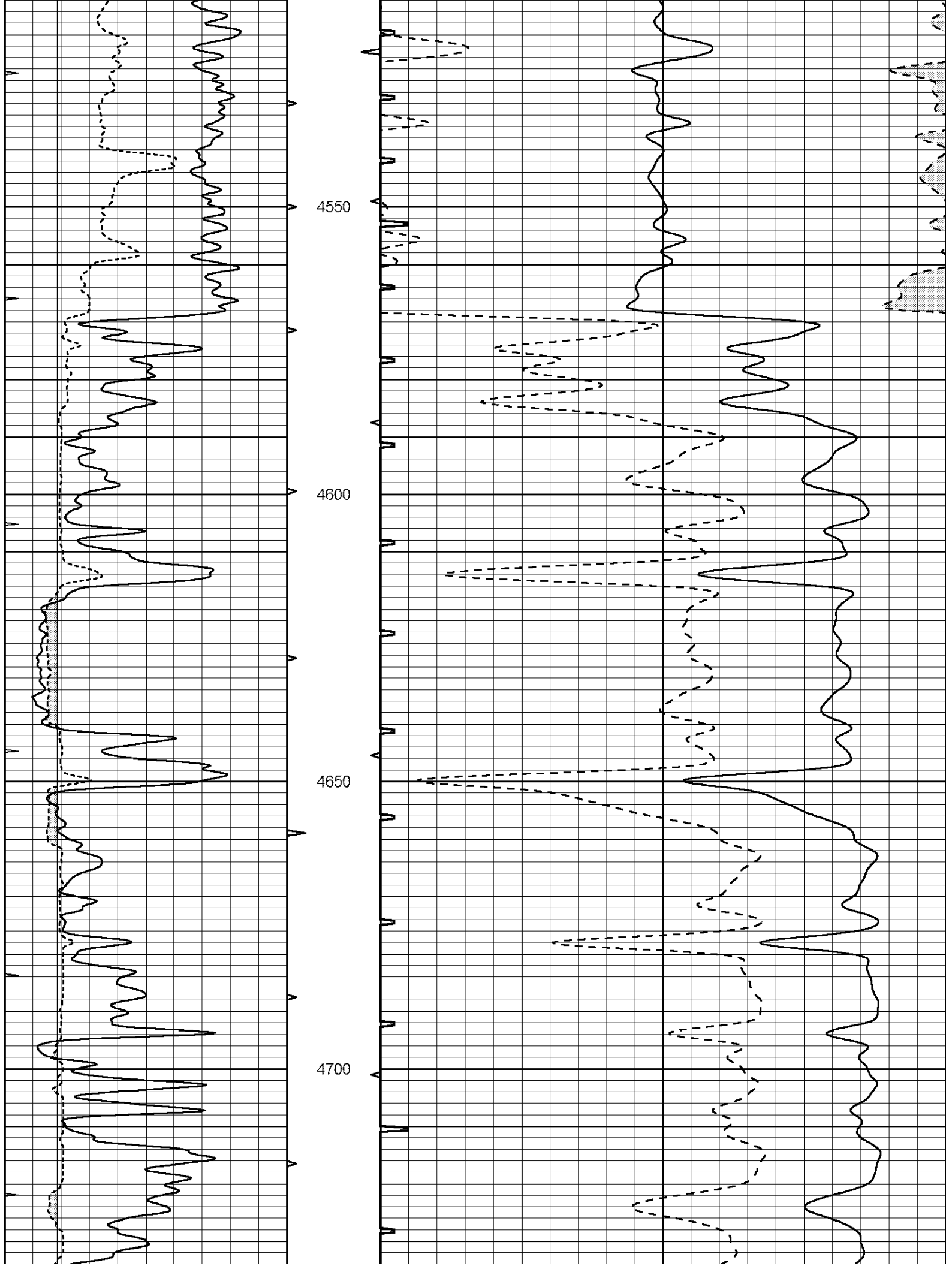


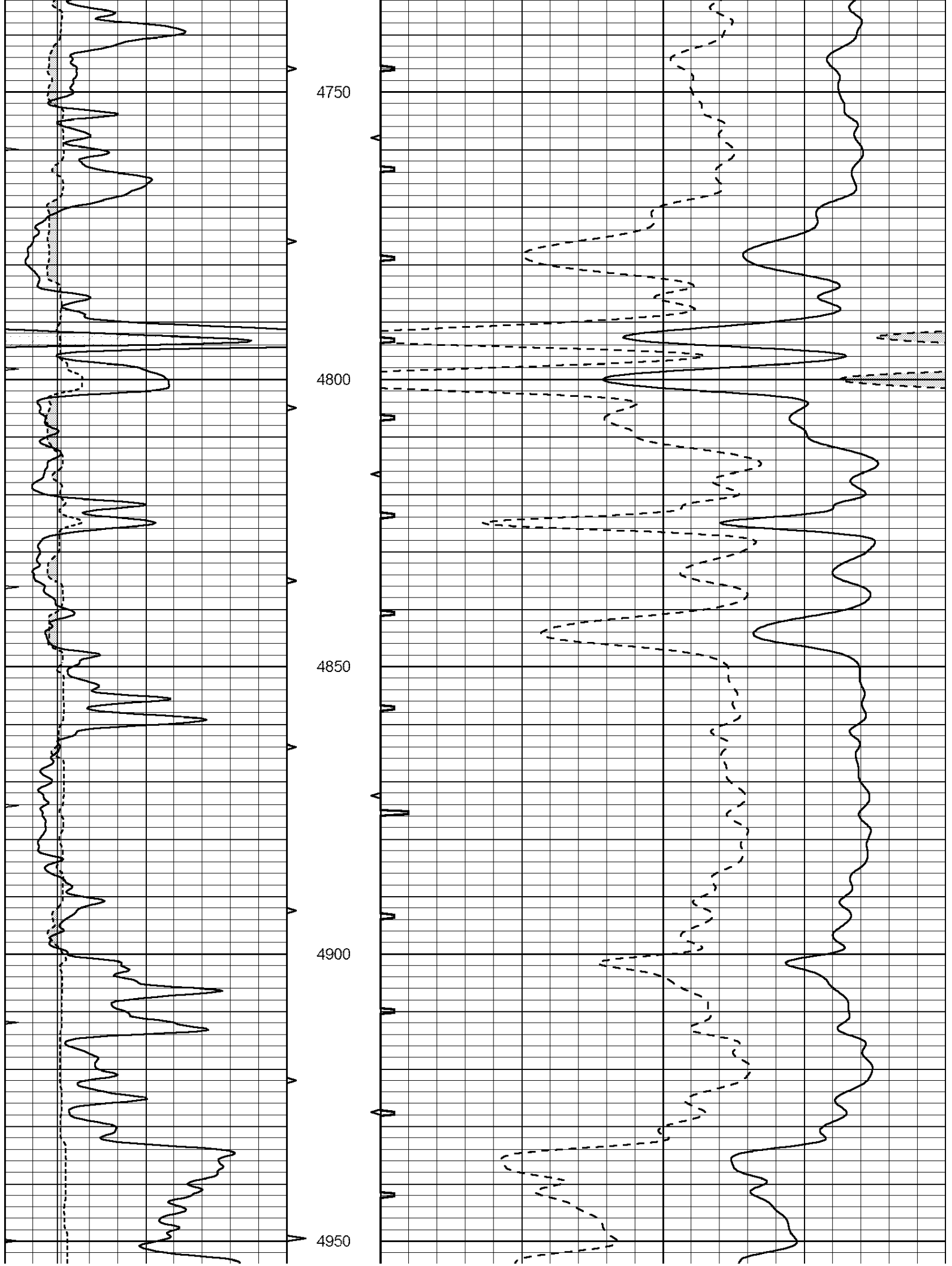


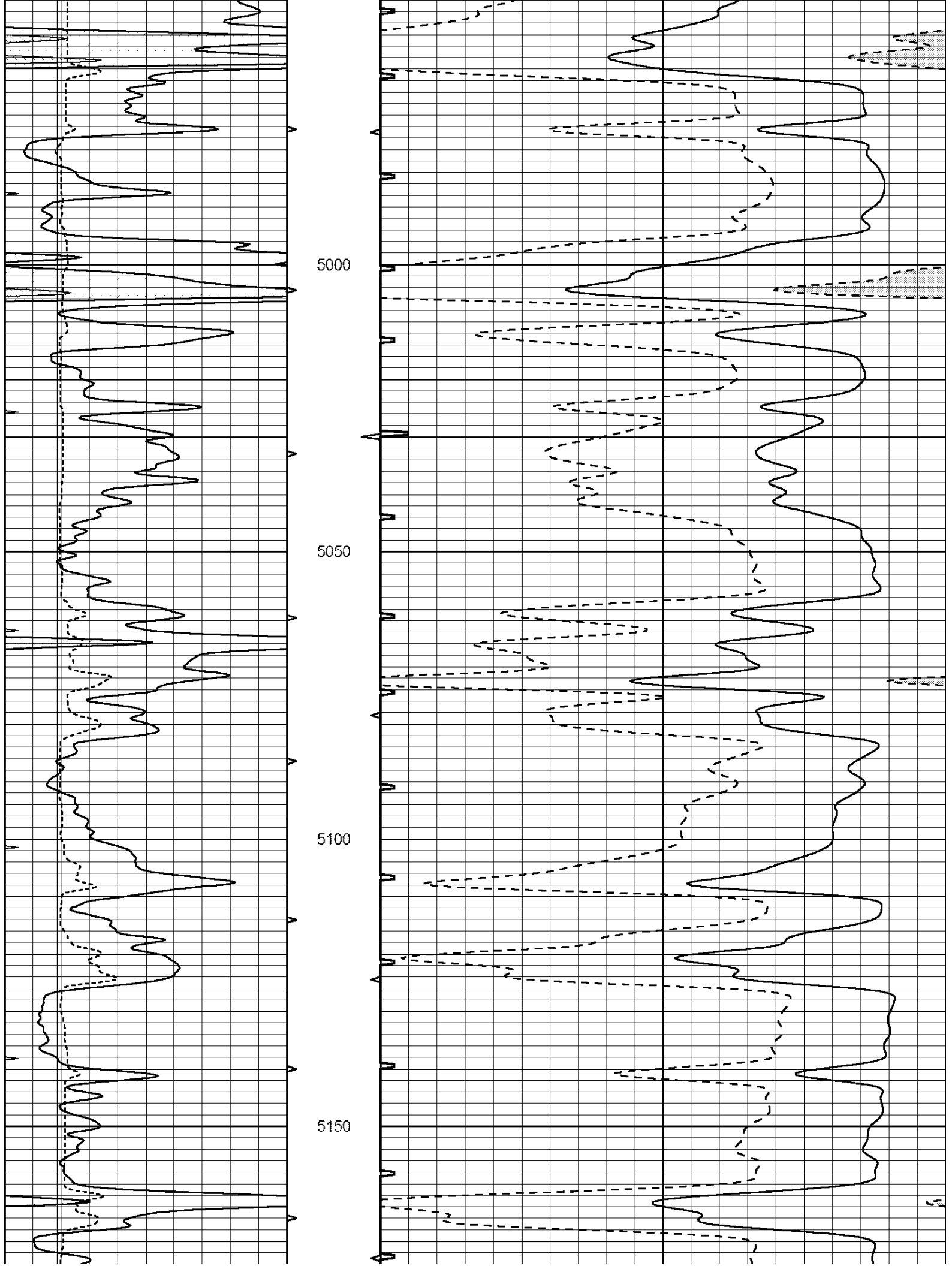


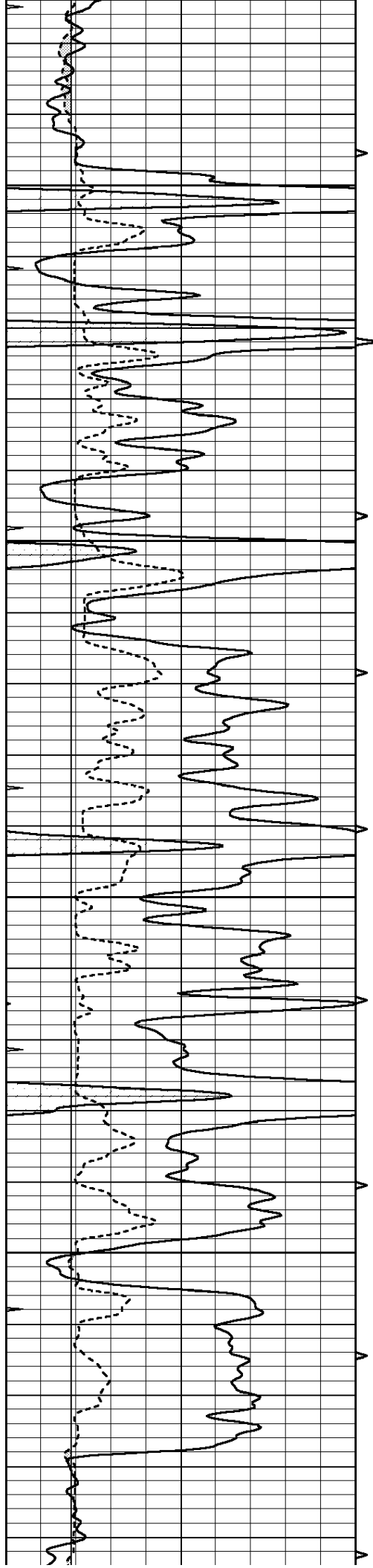
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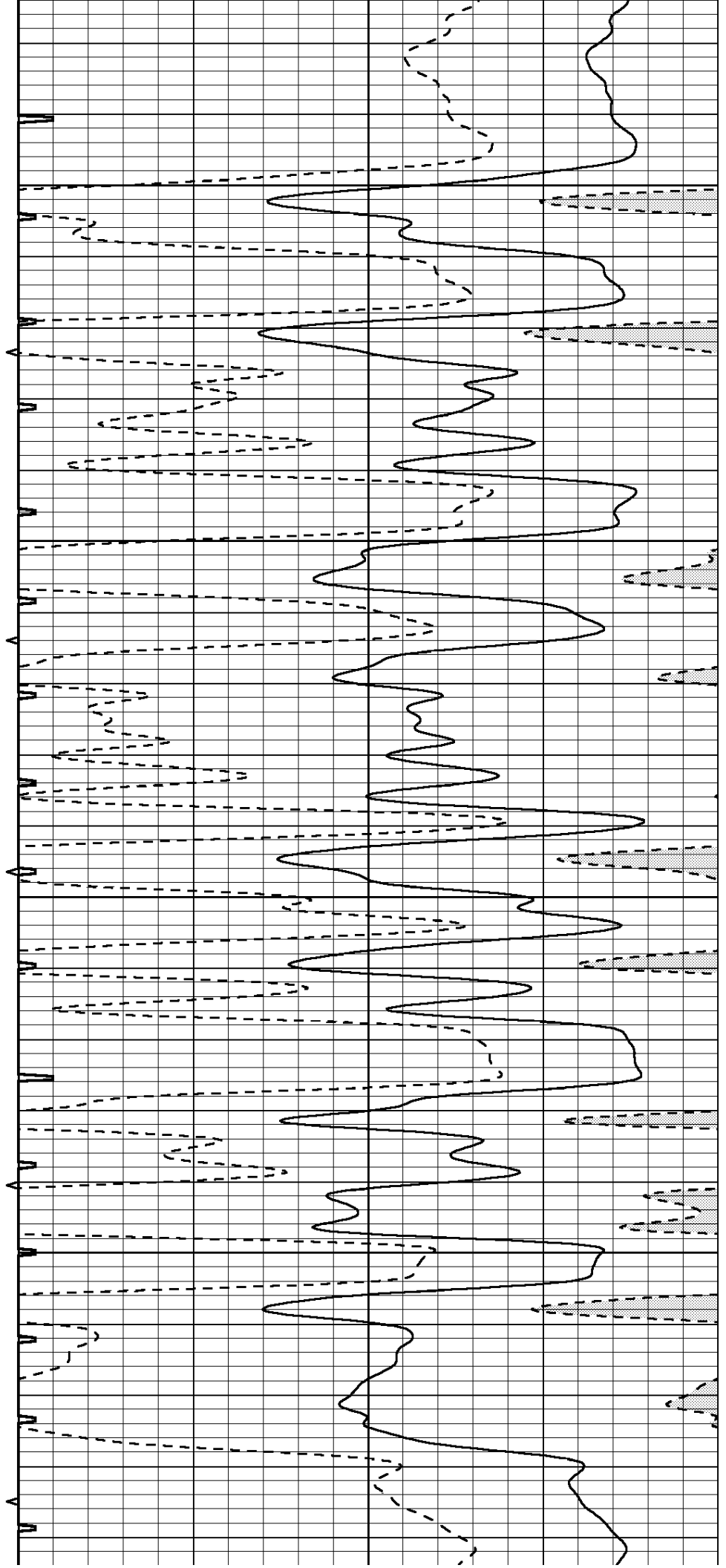


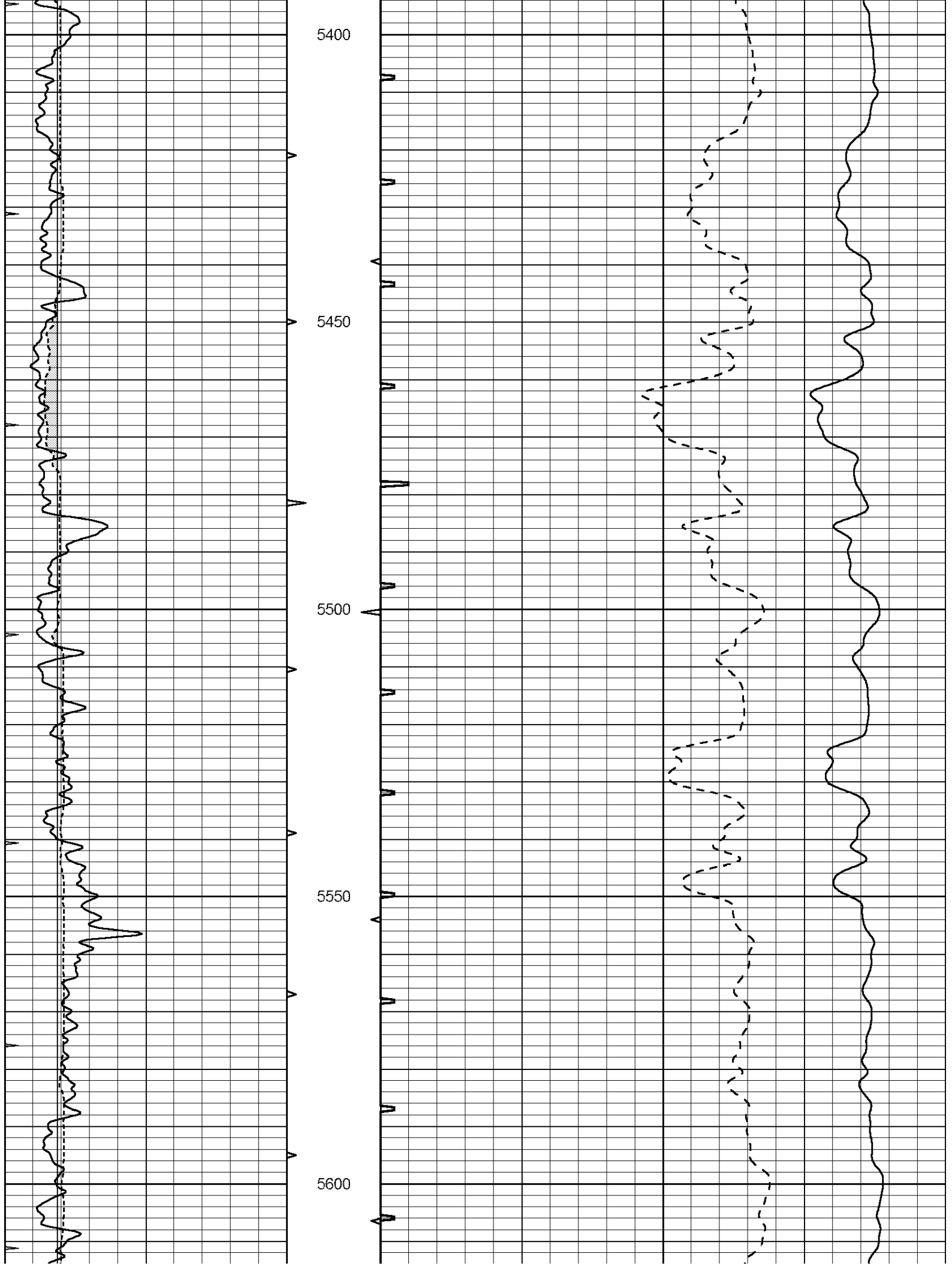
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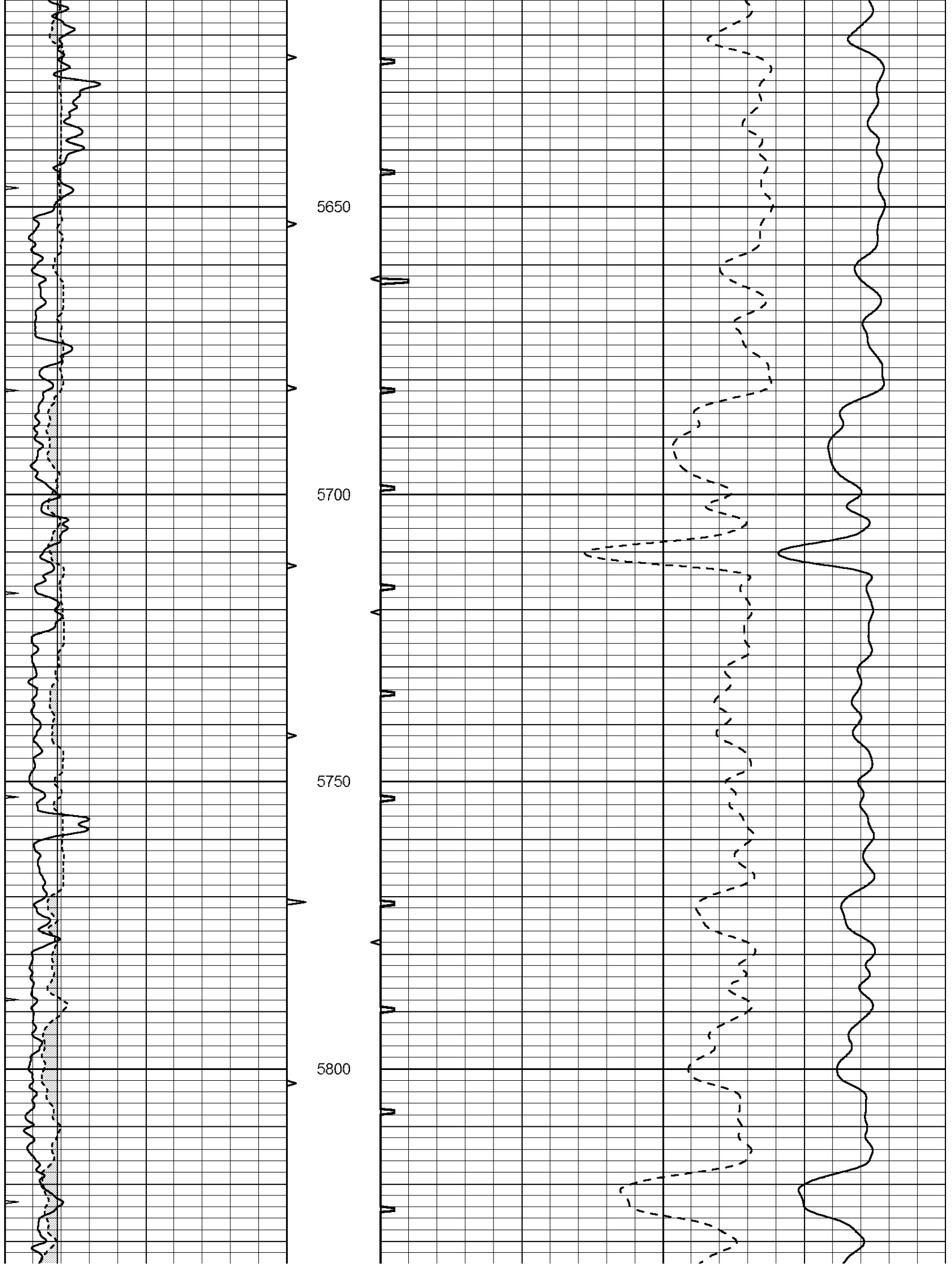
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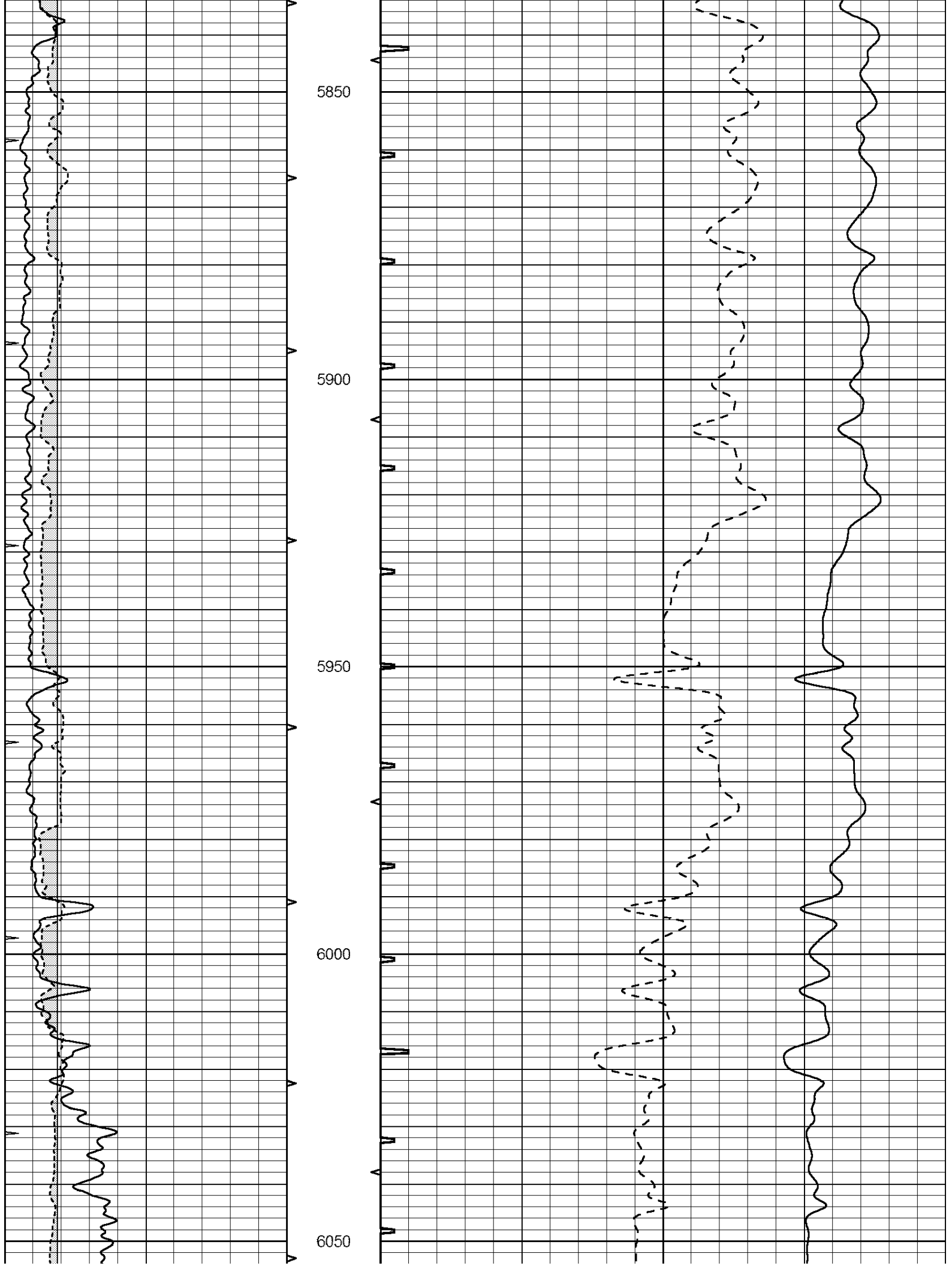
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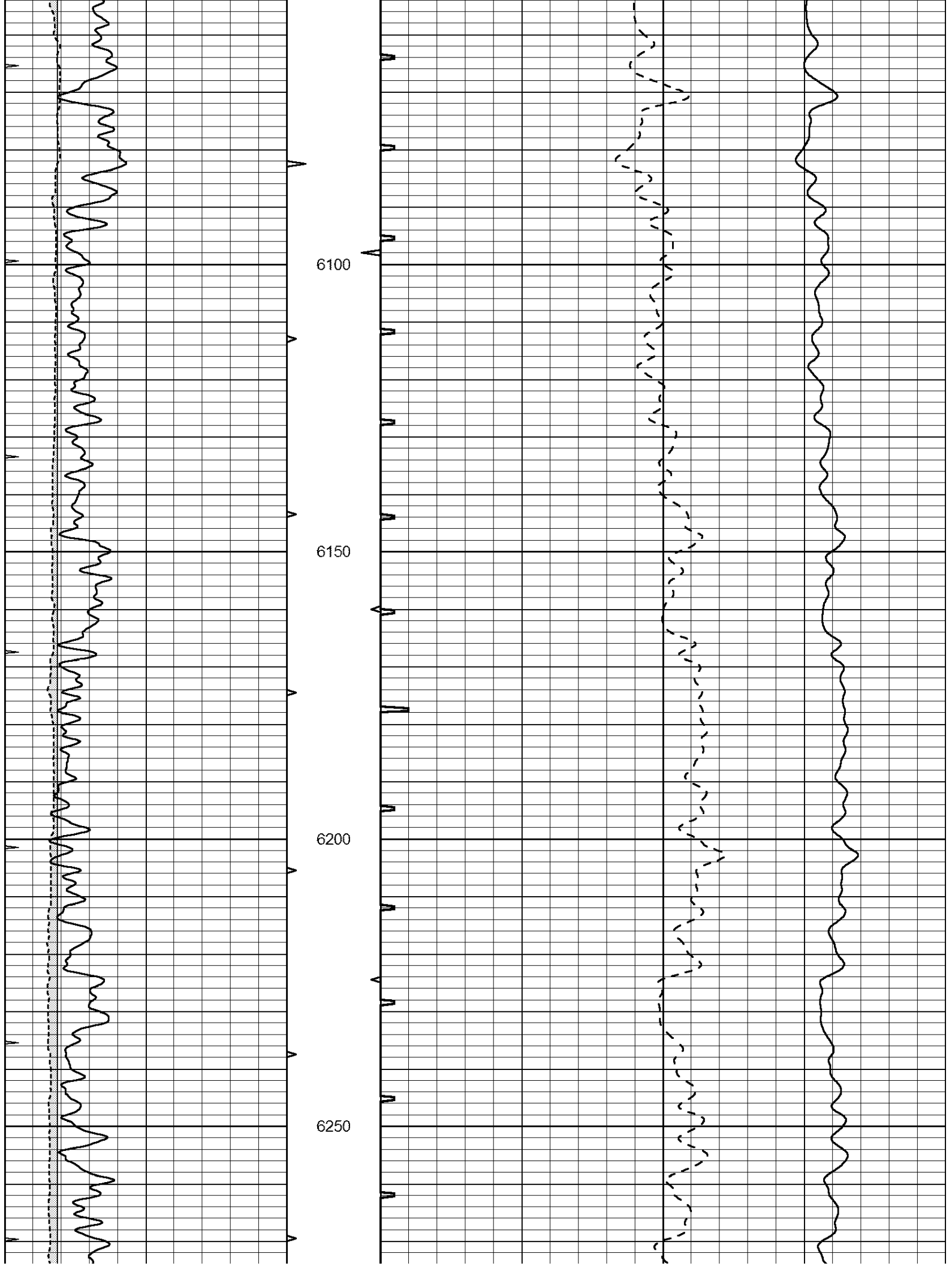
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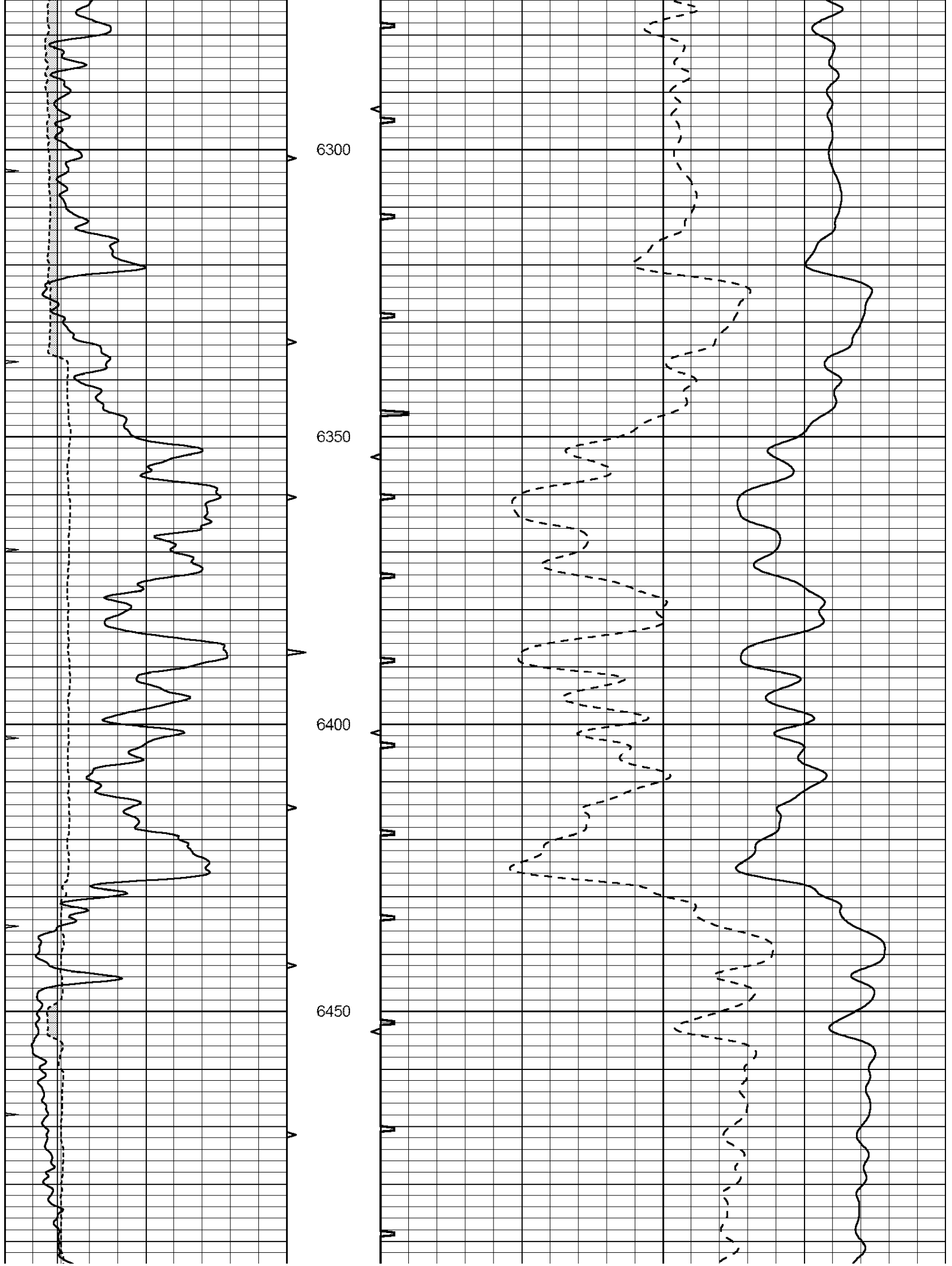


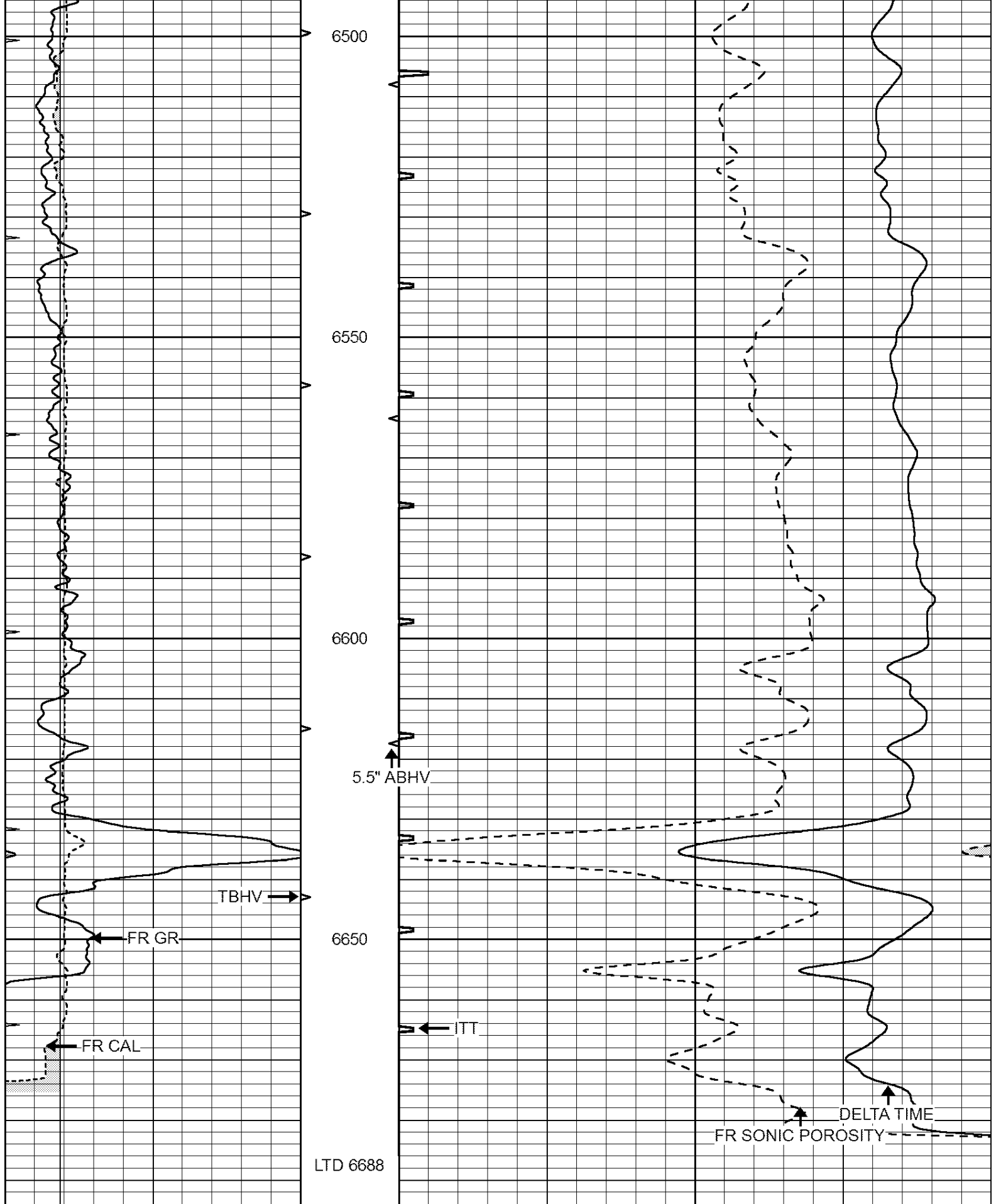












0	GAMMA RAY (GAPI)	150	ABHV	140	DELTA TIME (usec/ft)	40
6	CALIPER (in)	16	10 (ft3)	0 30	SONIC POROSITY (pu)	-10
0	MINMK	20	TBHV	0	ITT (msec)	20
			0 (ft3)	10		

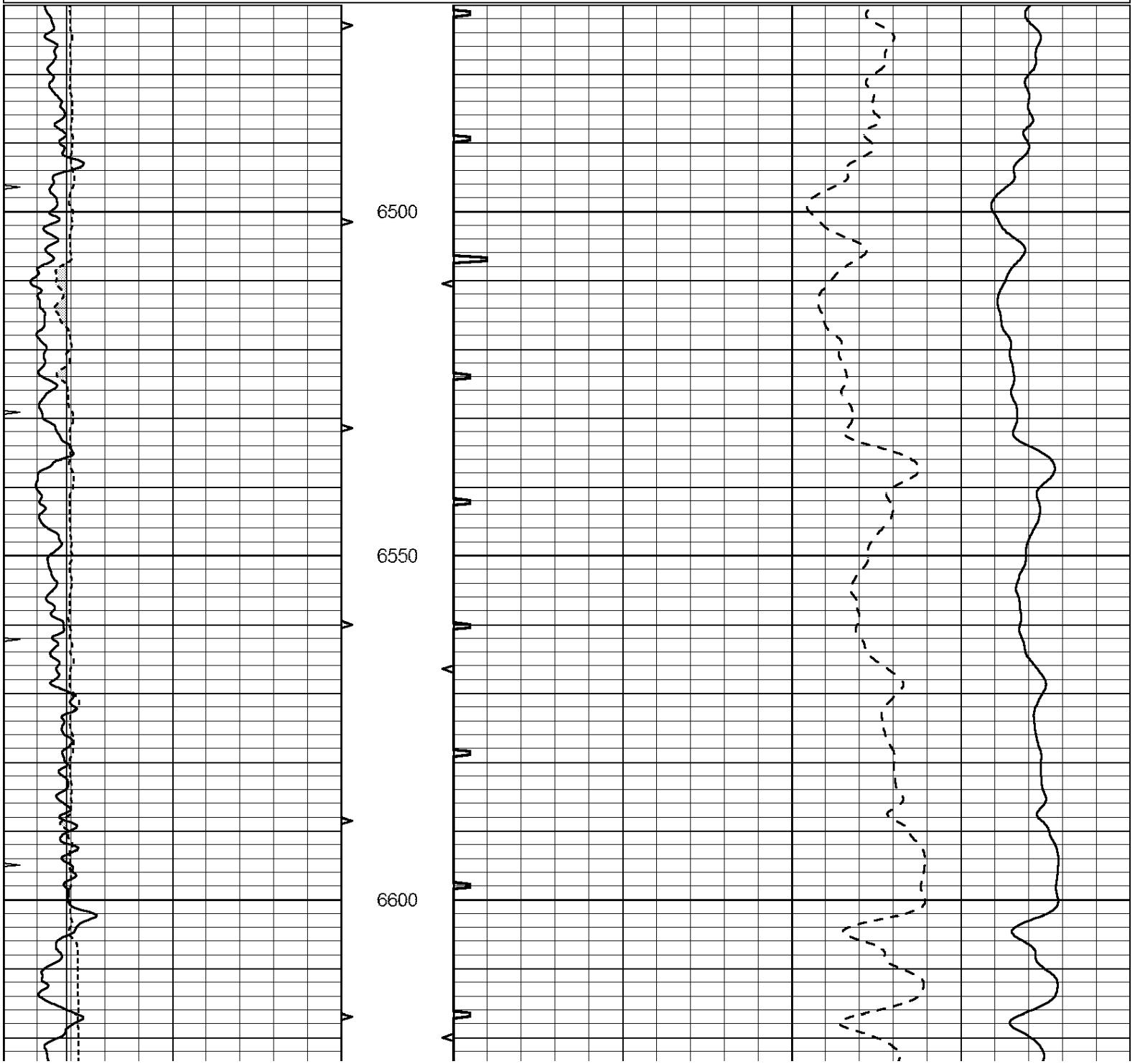


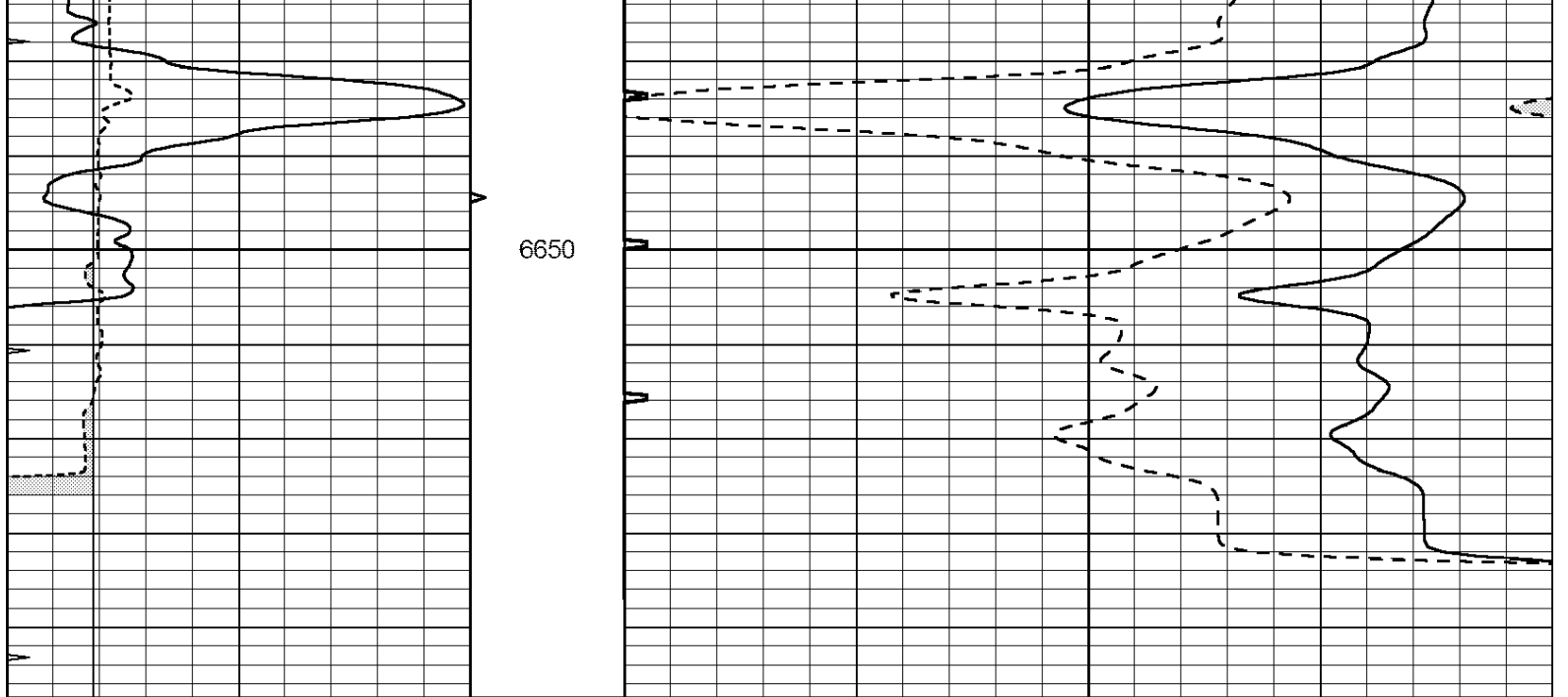
SUPERIOR  
Hays,  
Kansas

# REPEAT SECTION

Database File: 409678pe.db  
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 Presentation Format: sit  
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 Charted by: Depth in Feet scaled 1:240

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6	CALIPER (in)	16	10 (ft3)	0	30	SONIC POROSITY (pu)	-10
0	MINMK	20	TBHV	0	ITT (msec)	20	
			0 (ft3)	10			





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6	CALIPER (in)	16	10 (ft3) 0	30	SONIC POROSITY (pu)	-10
0	MINMK	20	TBHV	0	ITT (msec)	20
			0 (ft3) 10			