



NABORS

**COMPLETION
& PRODUCTION
SERVICES CO.**

**SONIC
LOG**

Company	RICHLAN DRILLING	Company	RICHLAN DRILLING
Well	RAHM #3	Well	RAHM #3
Field	SCHABEN WEST	Field	SCHABEN WEST
County	NESS	County	NESS
State	KANSAS	State	KANSAS
Location:	API # : 15-135-25699-00-00 1640' FNL & 1170' FEL NW - NW - SE - NE	Other Services CNL/CDL/PE DIL/MEL	
Permanent Datum Log Measured From Drilling Measured From	GROUND LEVEL KELLY BUSHING 10' A.G.L. KELLY BUSHING	Elevation K.B. 2226 D.F. 2224 G.L. 2216	
Date	11-29-13		
Run Number	TVMO		
Depth Driller	4483		
Depth Logger	4486		
Bottom Logged Interval	4476		
Top Log Interval	200		
Casing Driller	8 5/8"@257'		
Casing Logger	254'		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 7,000 PPM	
Density / Viscosity	9.0/58		
pH / Fluid Loss	9.5/8.8		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	0.65@79F		
Rmf @ Meas. Temp	0.49@71F		
Rmc @ Meas. Temp	0.78@71F		
Source of Rmf / Rmc	MEASUREMENT		
Rim @ BHT	0.38@120F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	120F		
Equipment Number	860		
Location	HAYS, KANSAS		
Recorded By	IAN MABB		
Witnessed By	BOB SCHREIBER		

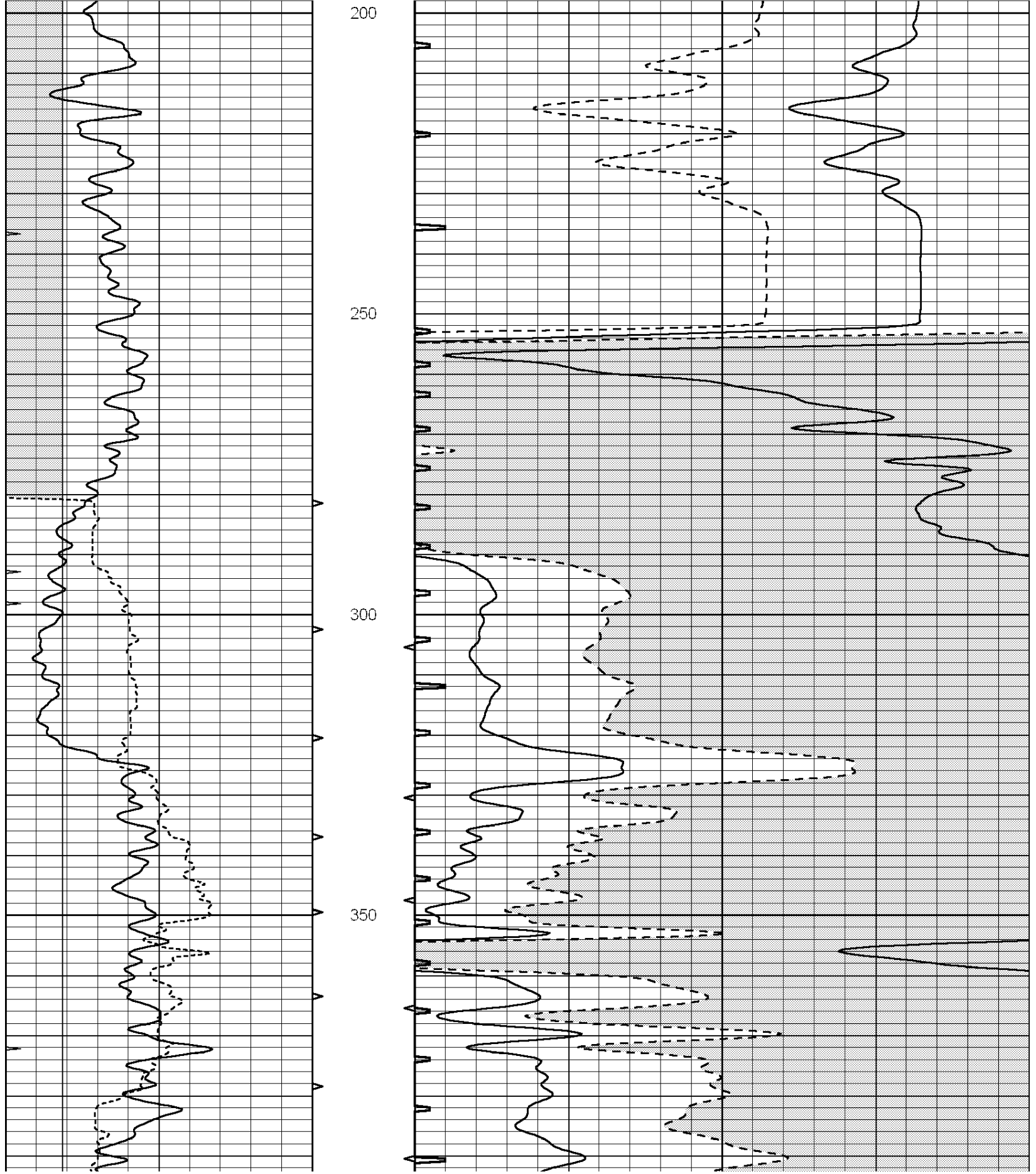
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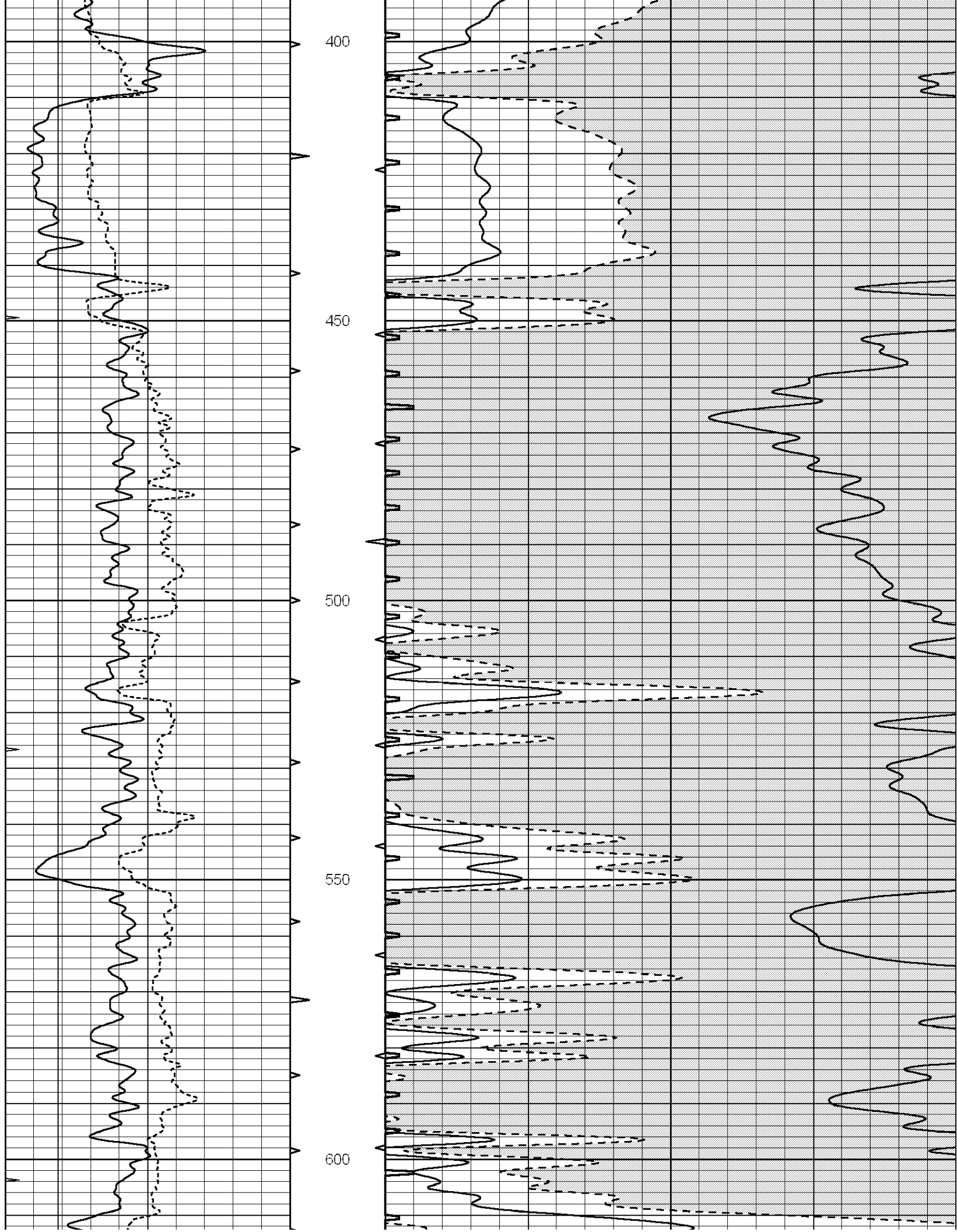
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

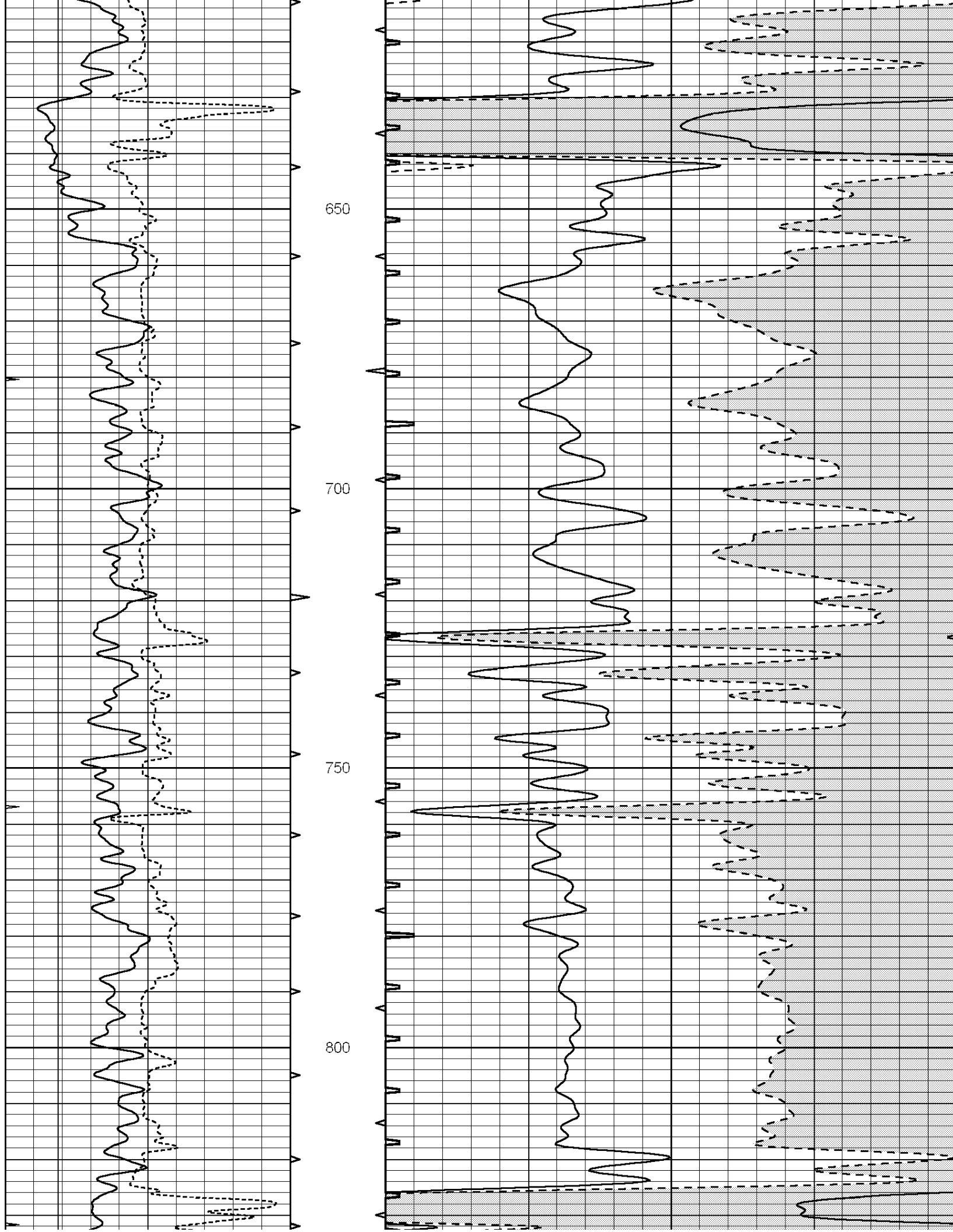
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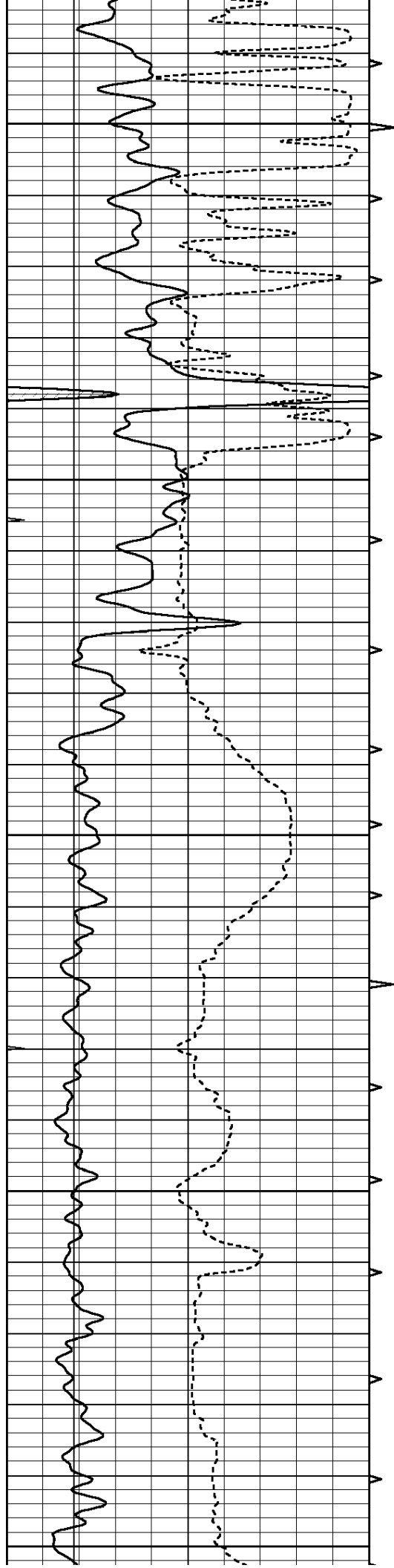
THANK YOU FOR USING "NABORS" HAYS, KANSAS (785) 628-6395
DIRECTIONS
BAZINE, KS. - 2 WEST TO RD BB - SOUTH 4 MILES WEST INTO

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









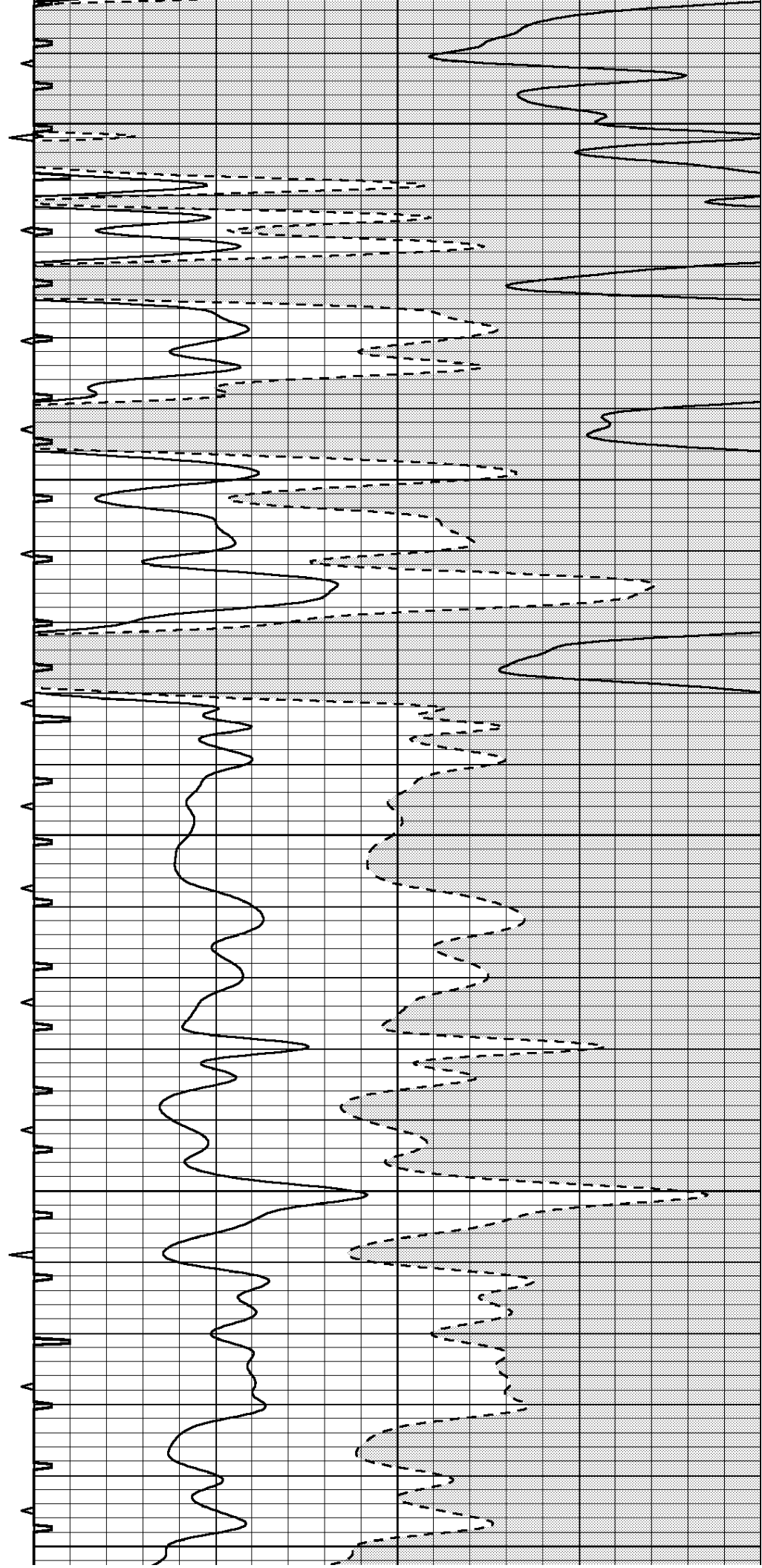
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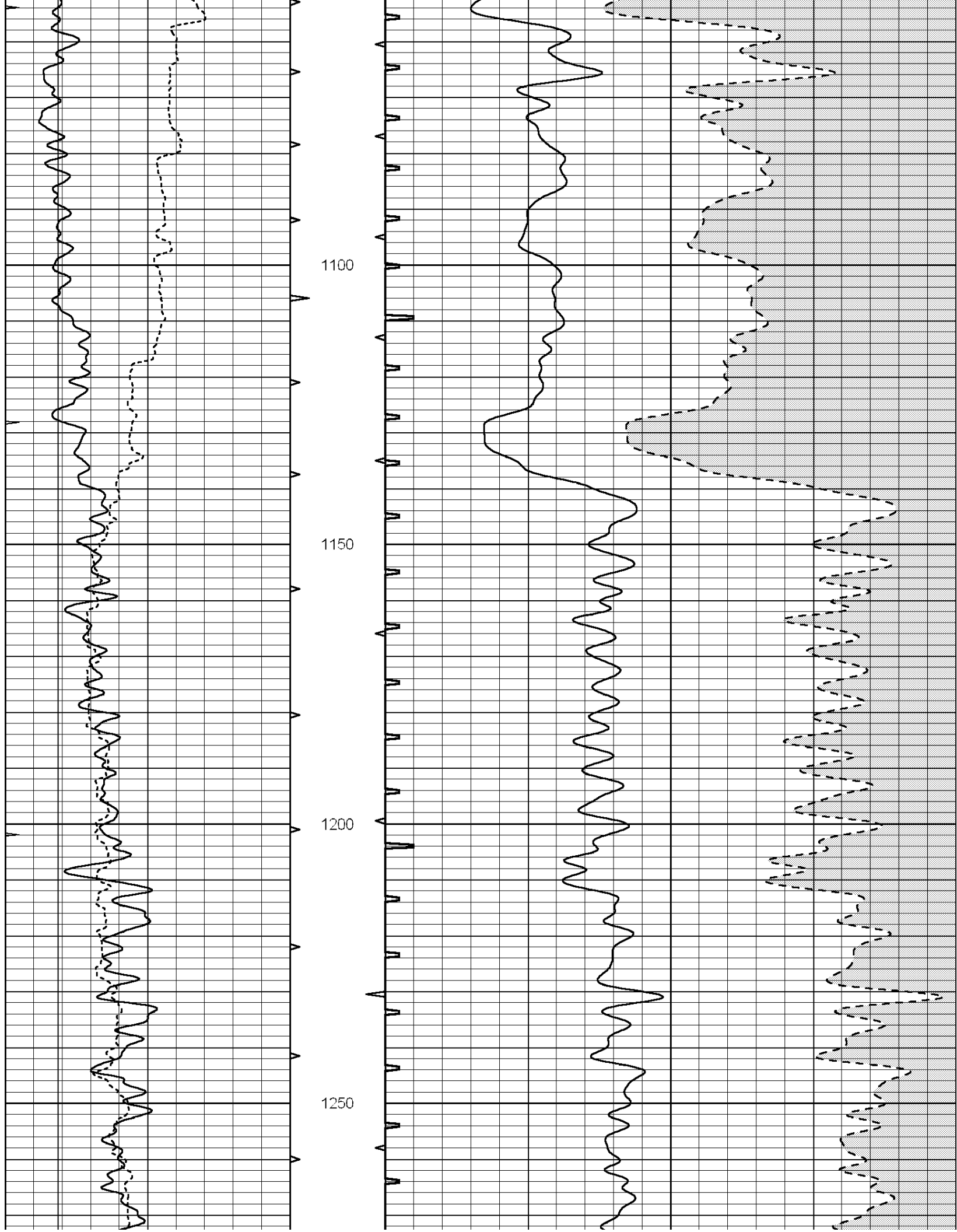
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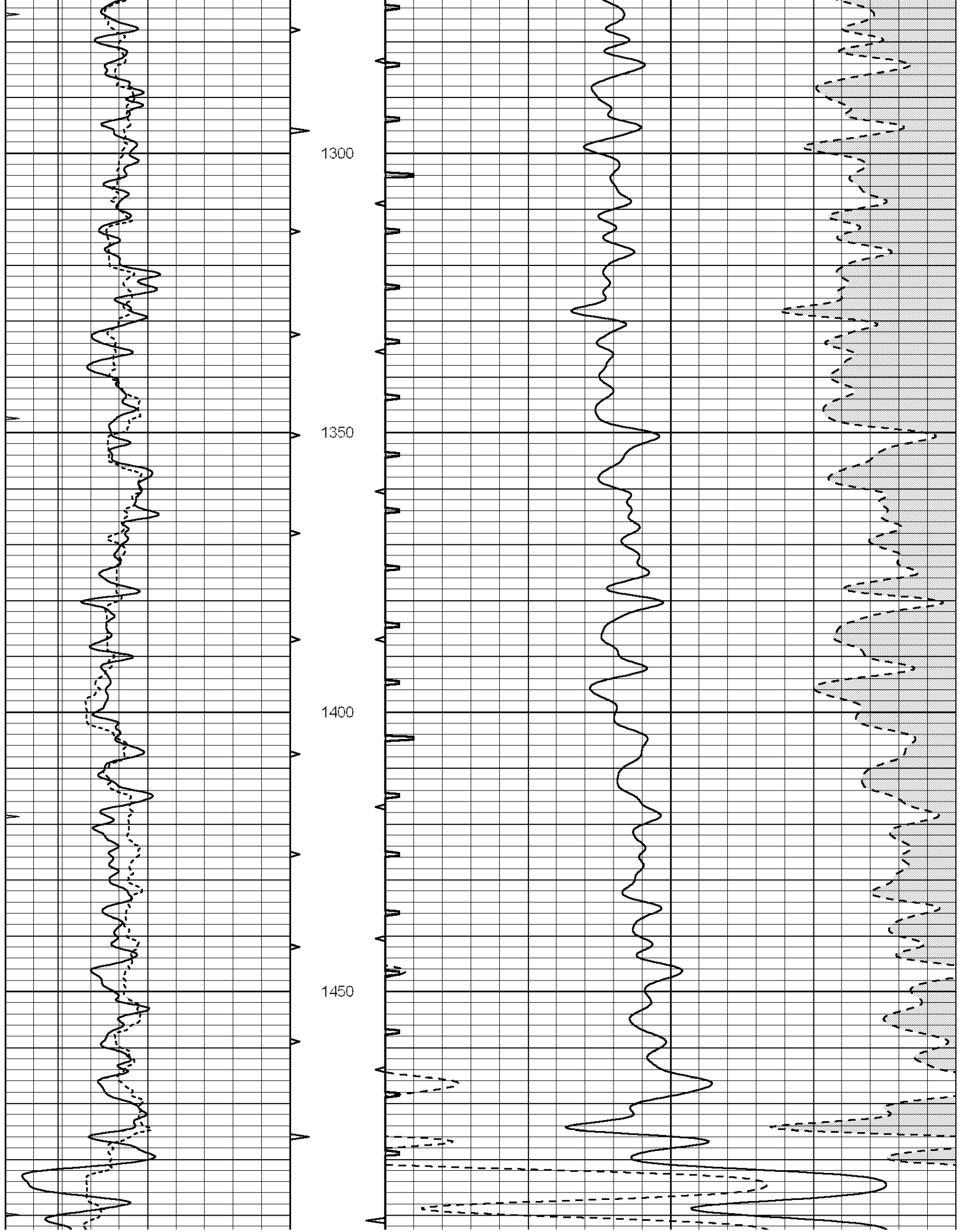
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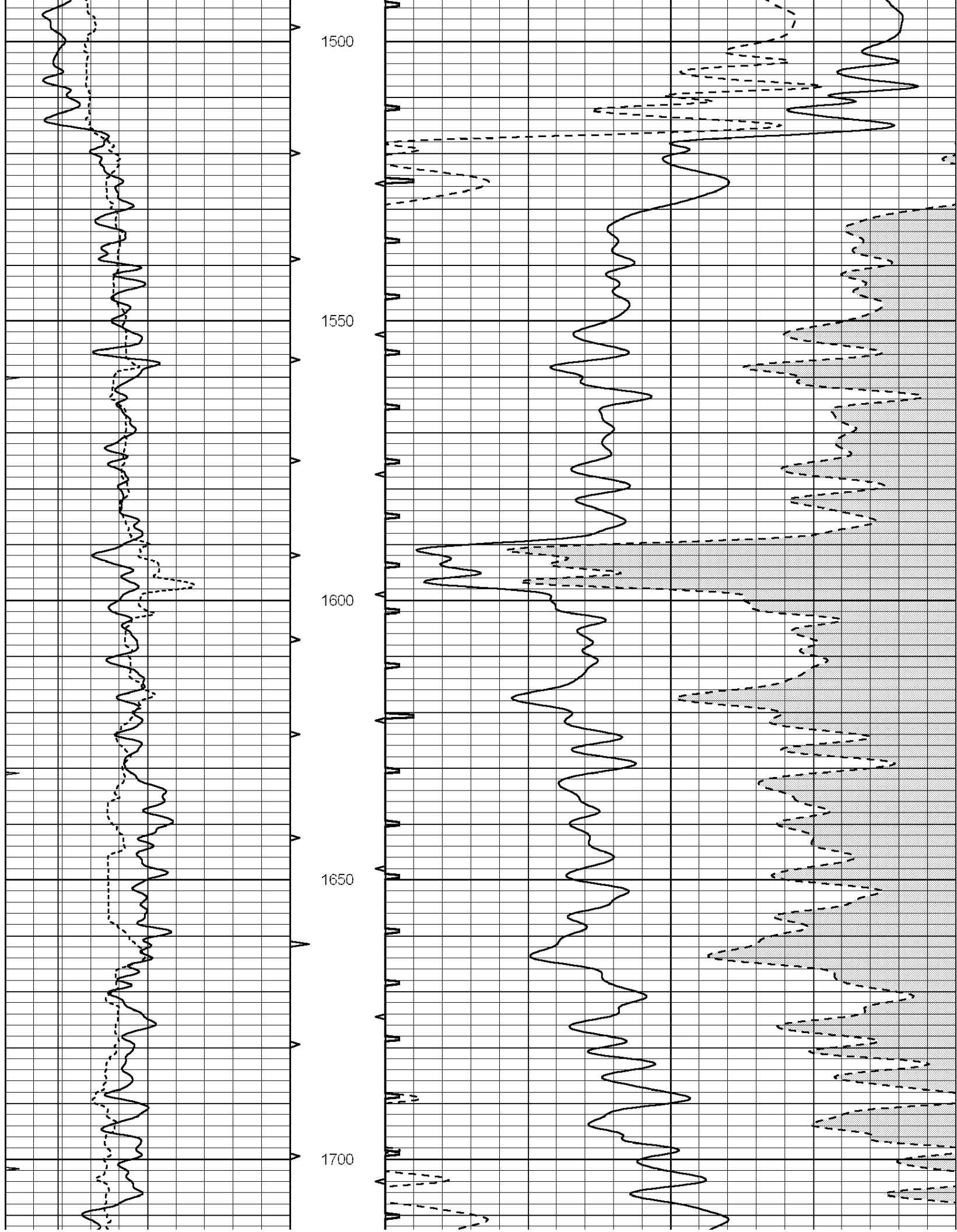
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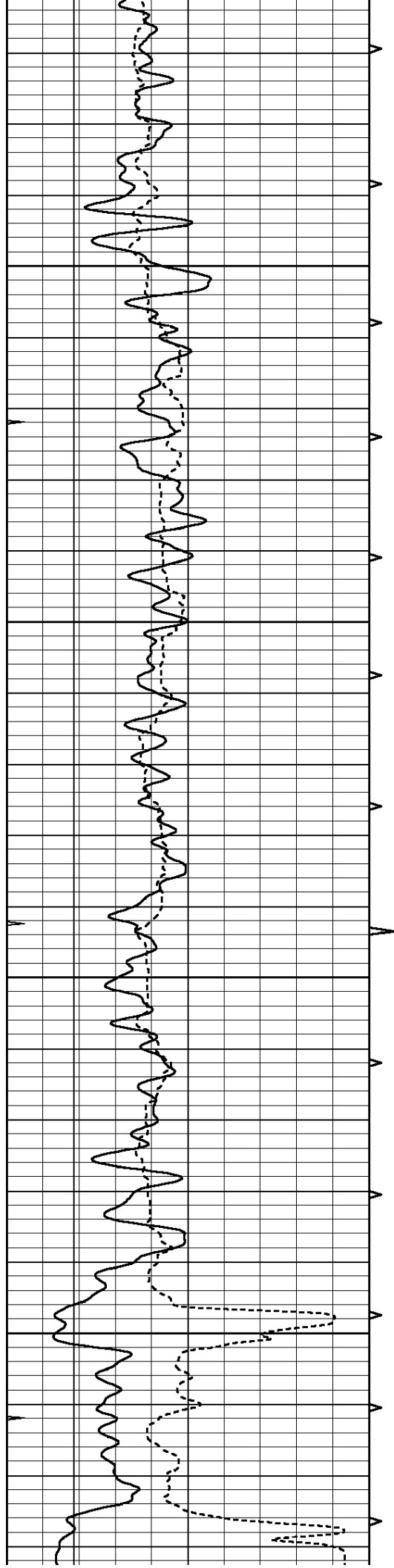
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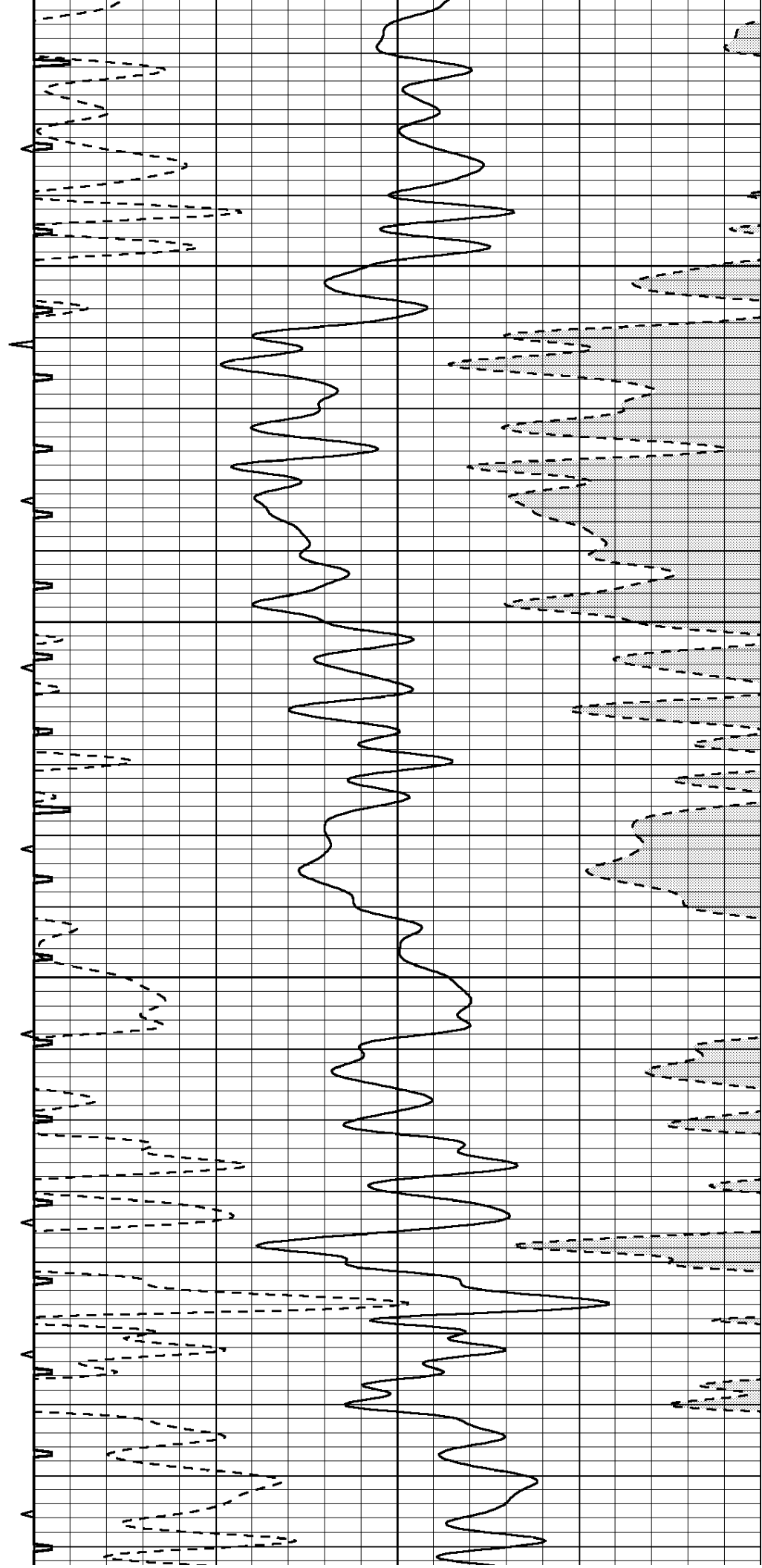


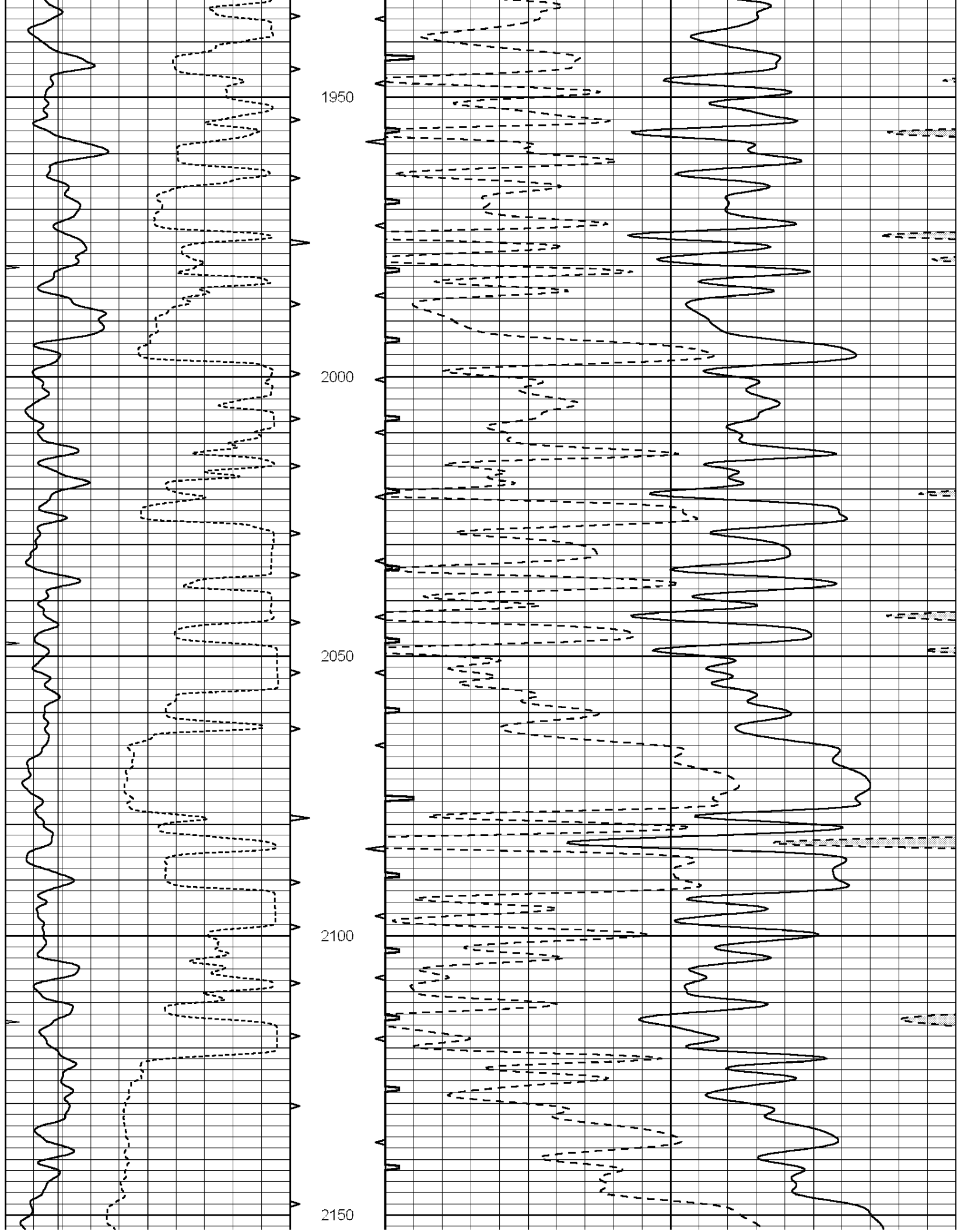
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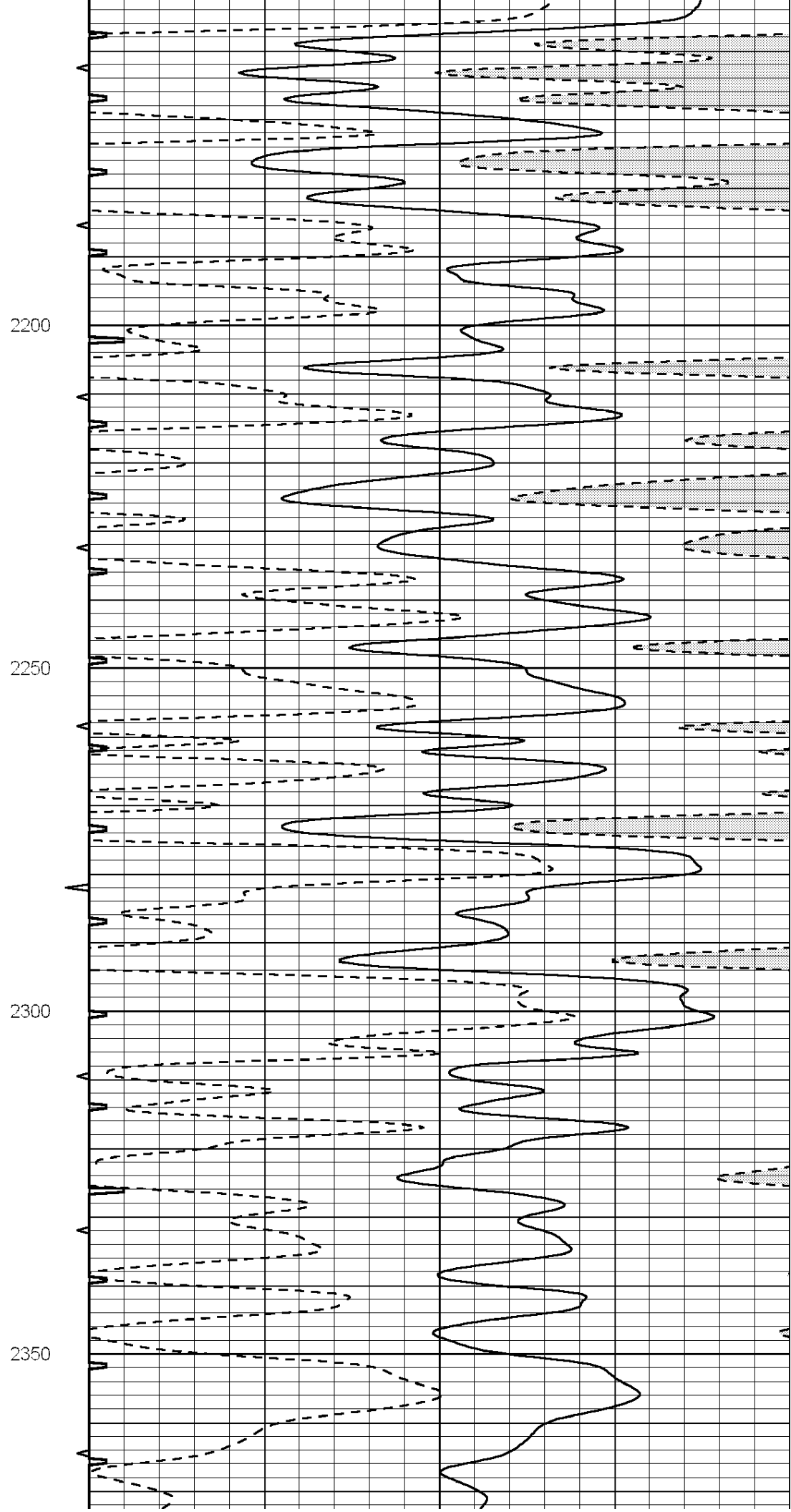
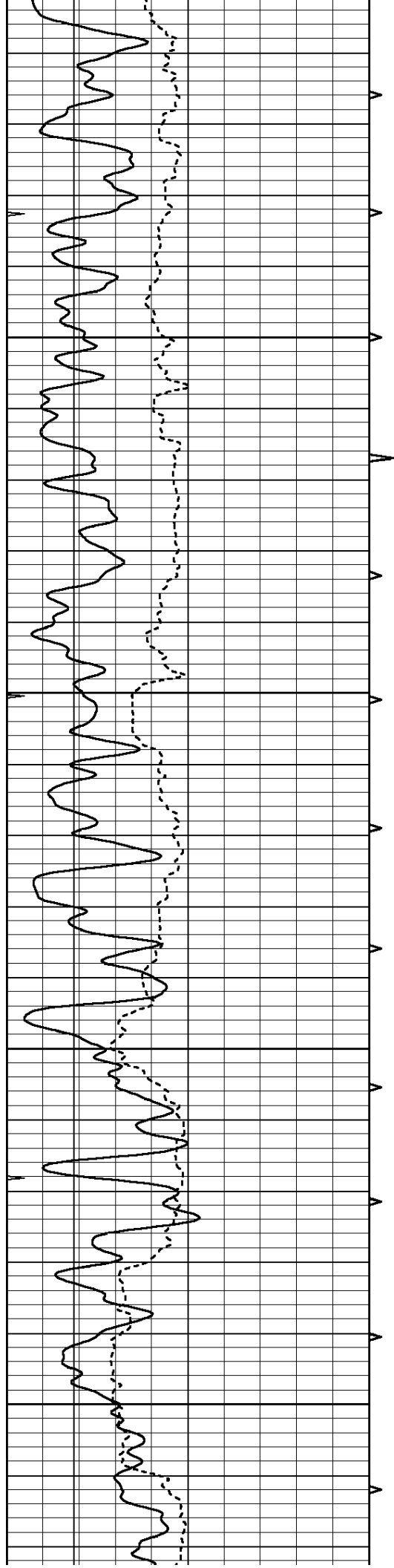
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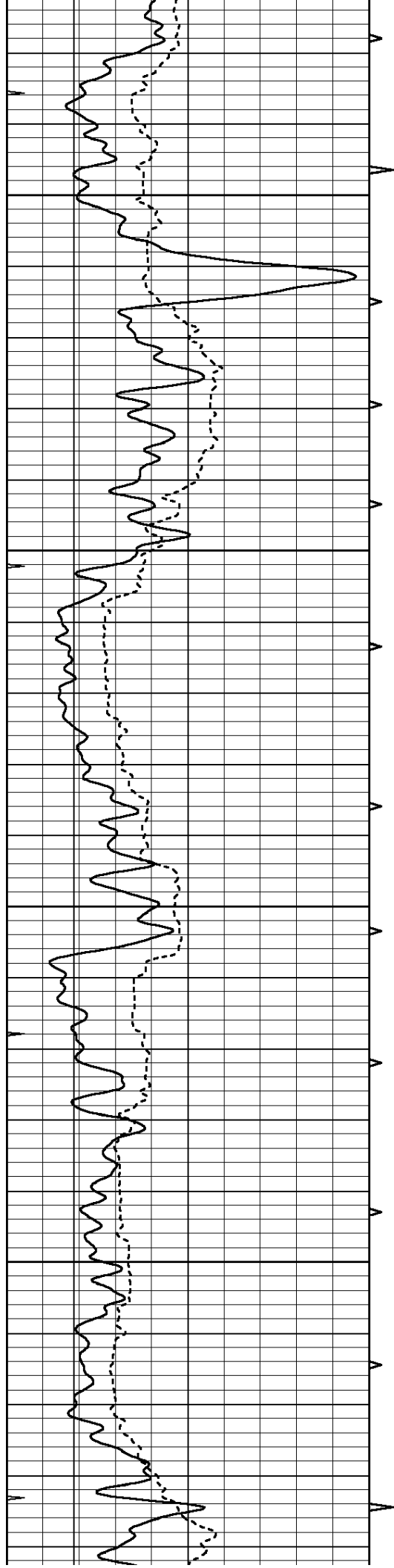
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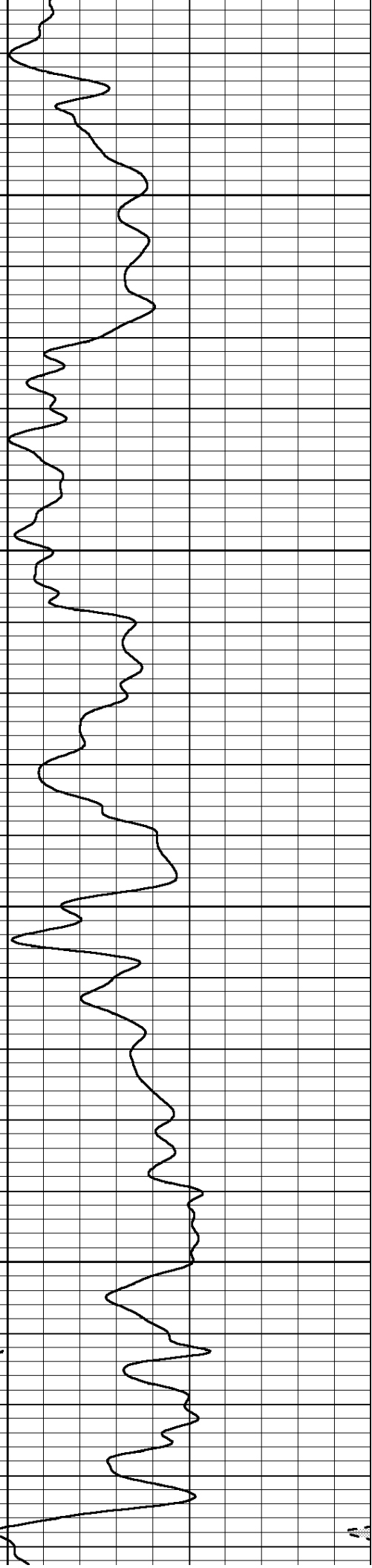
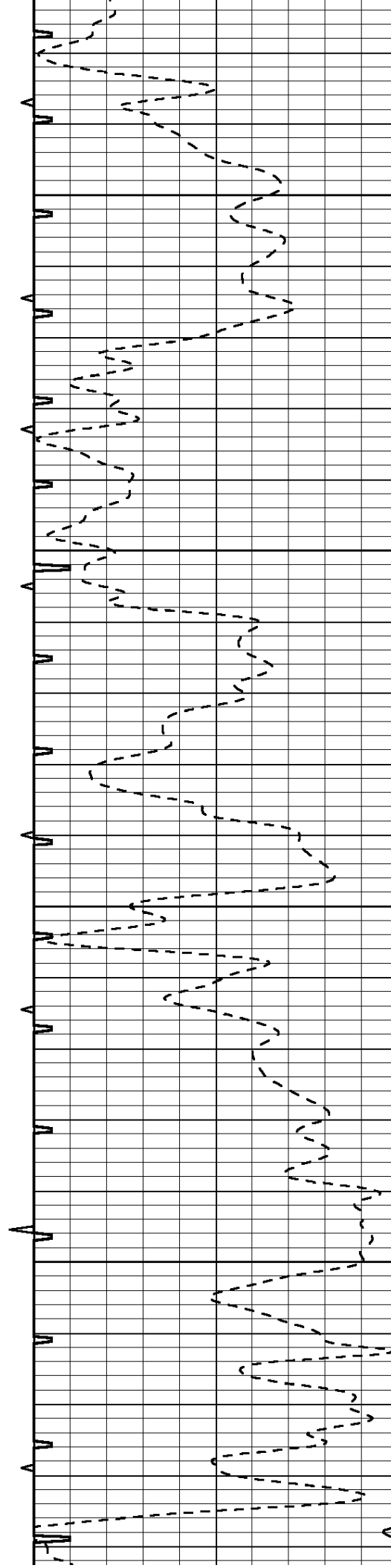


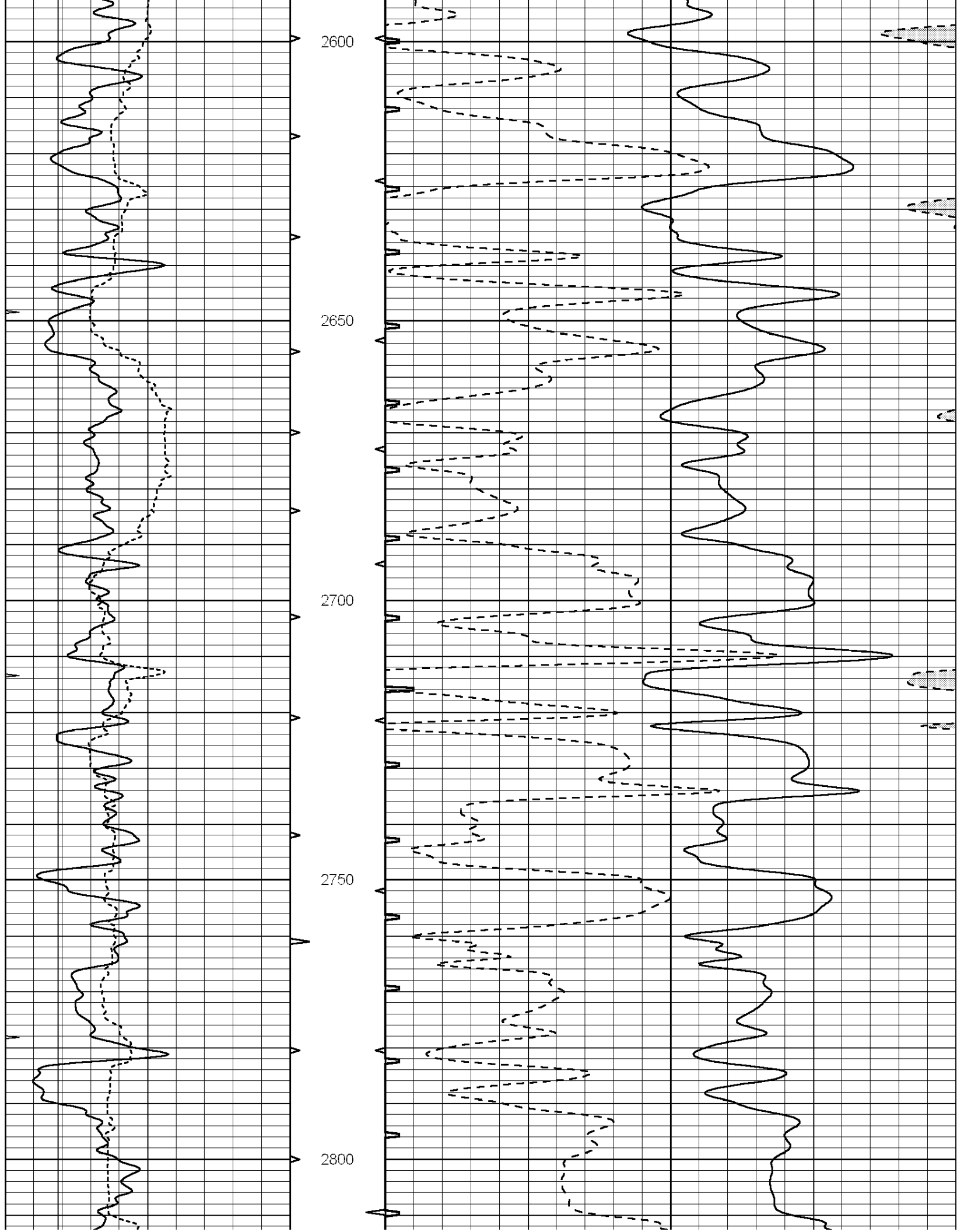
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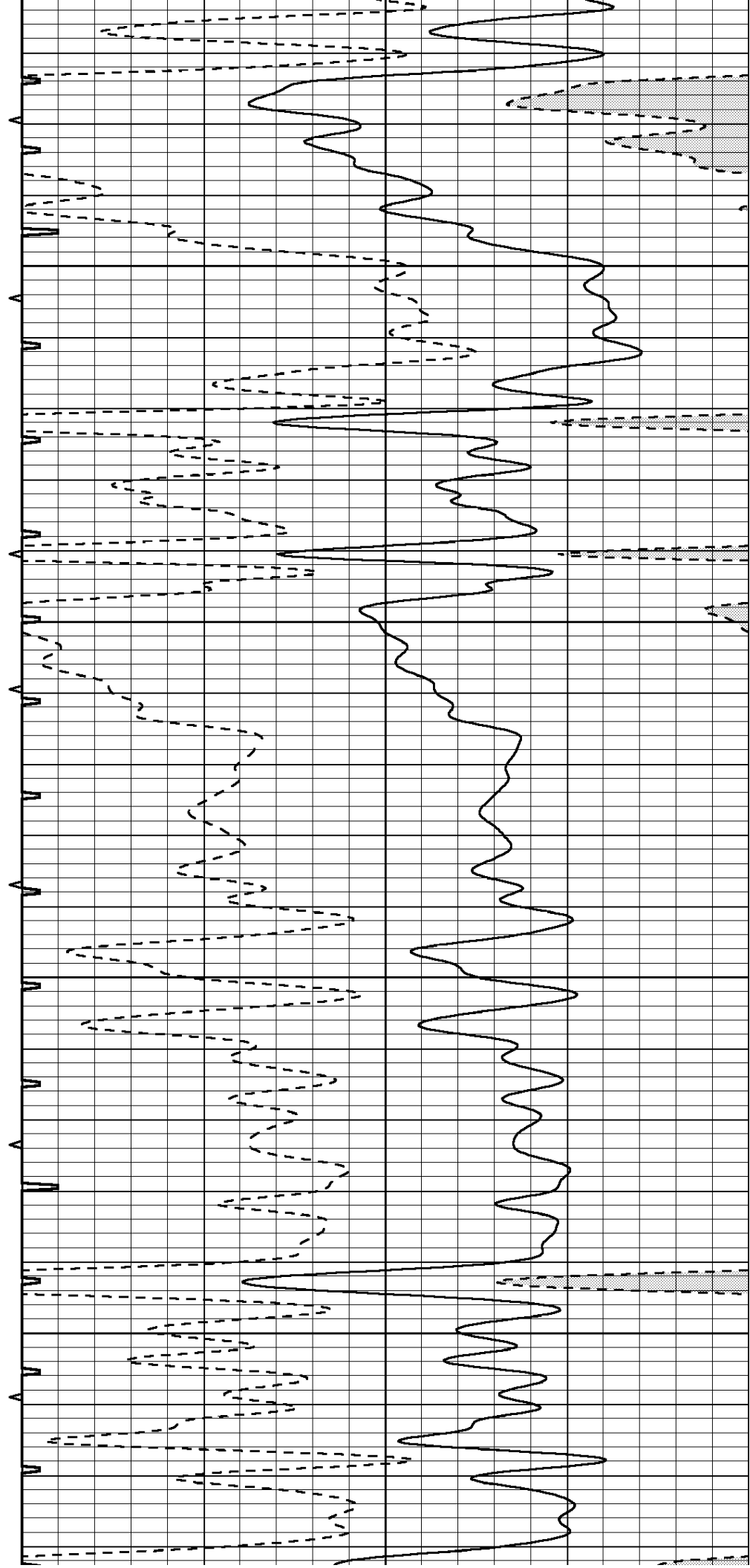
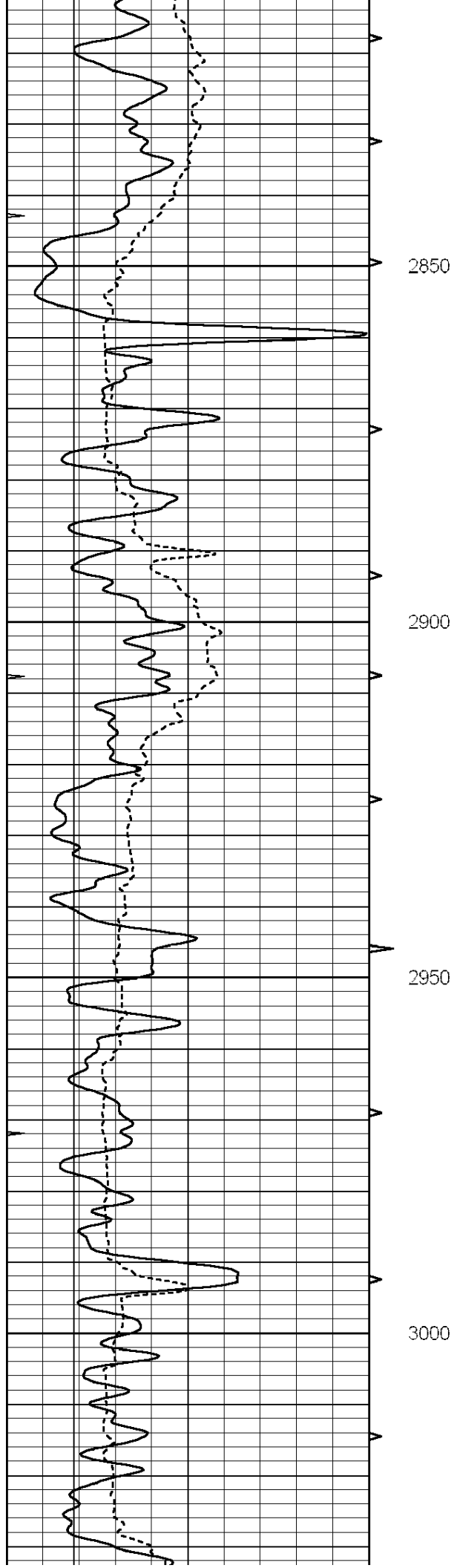
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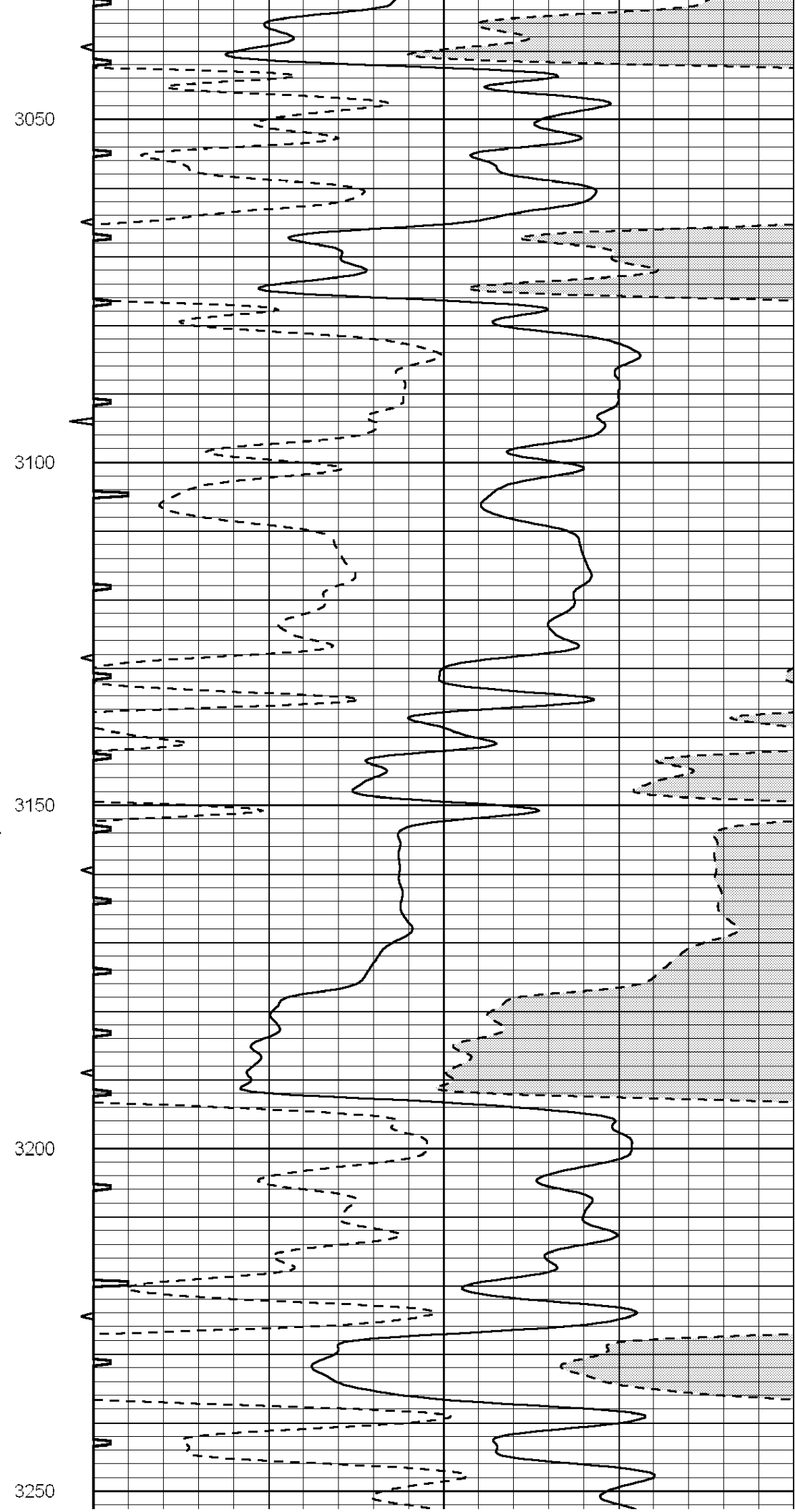
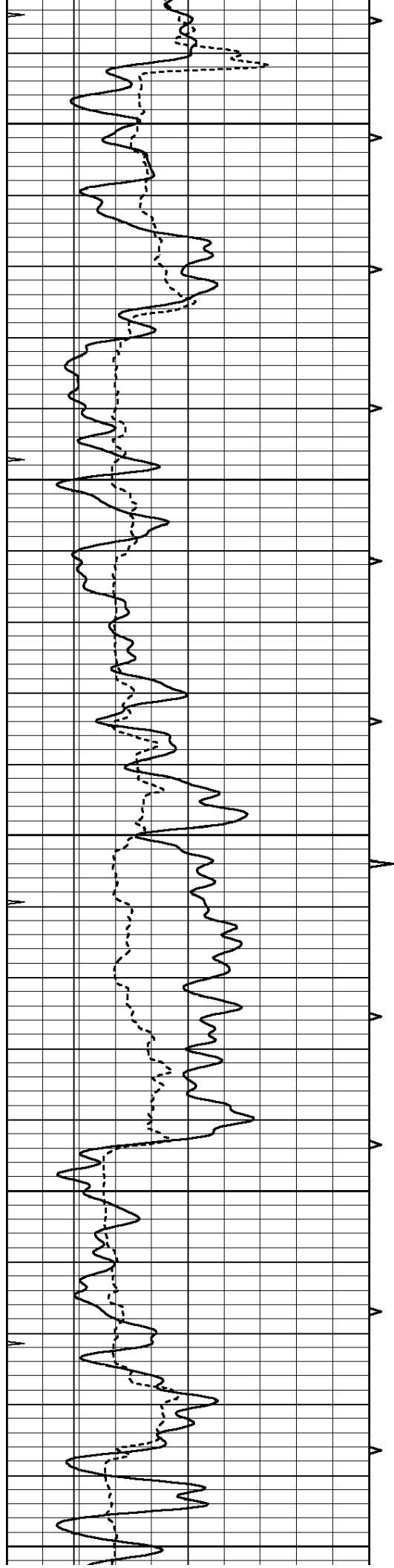
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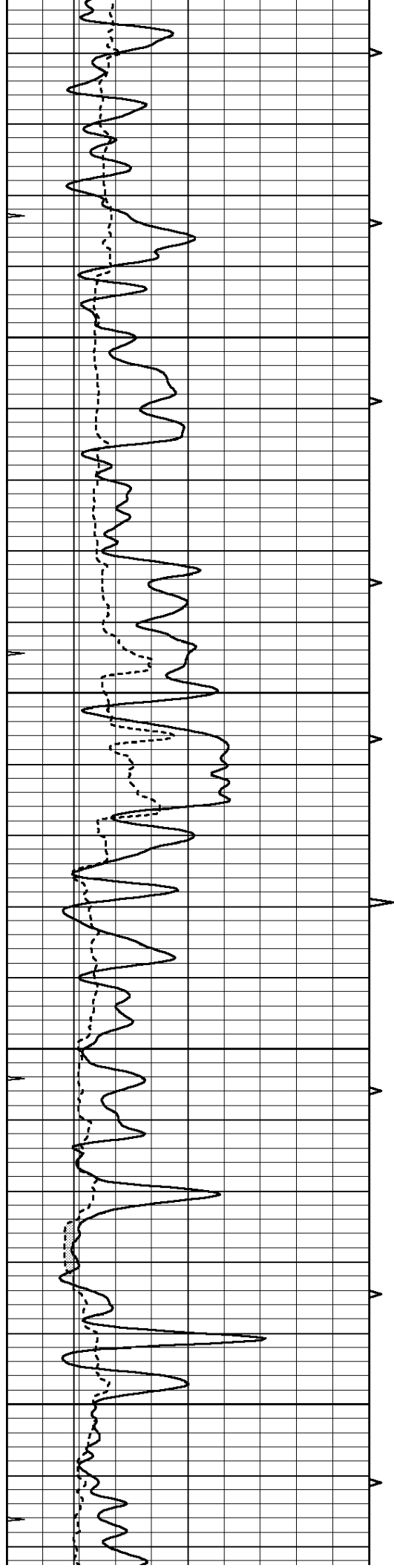
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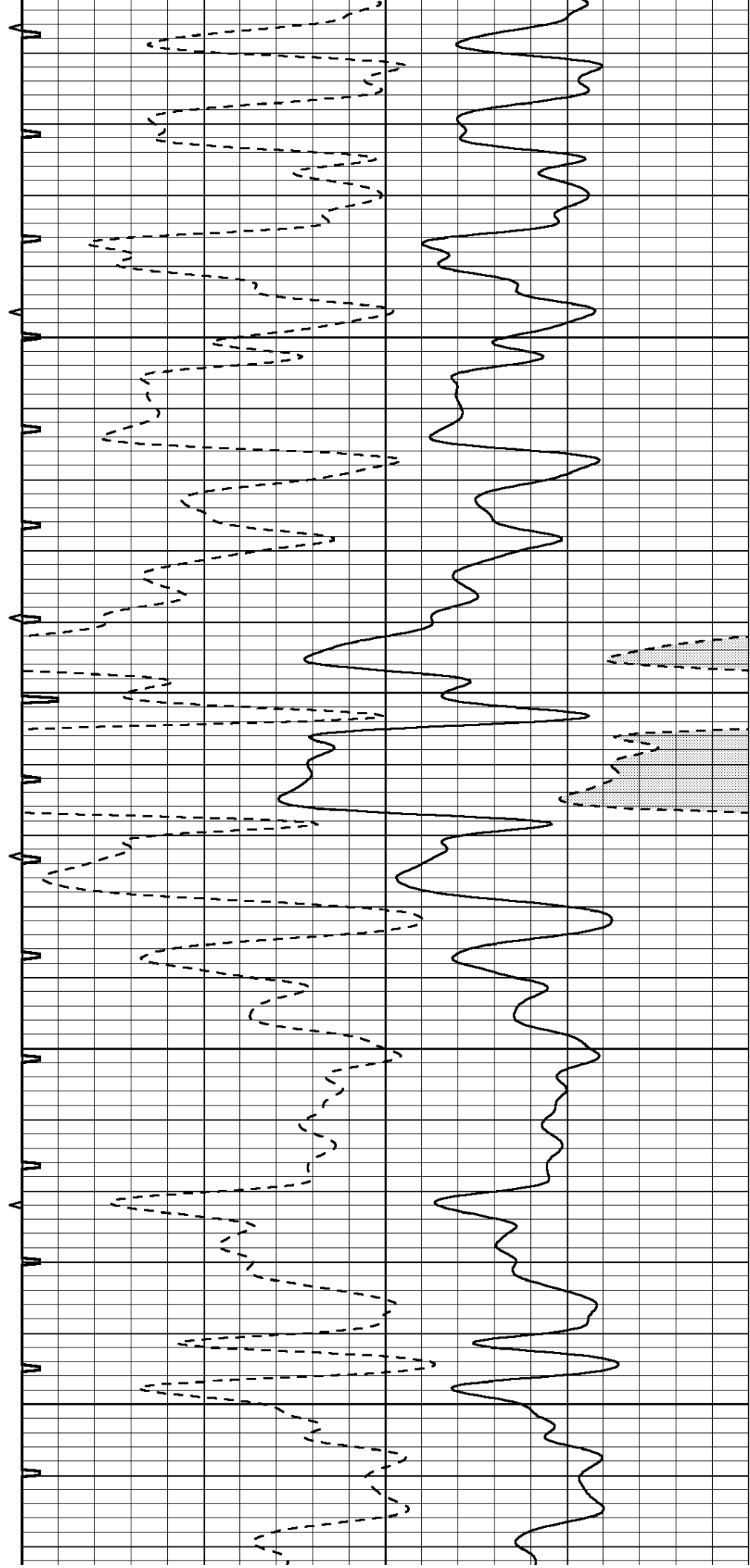


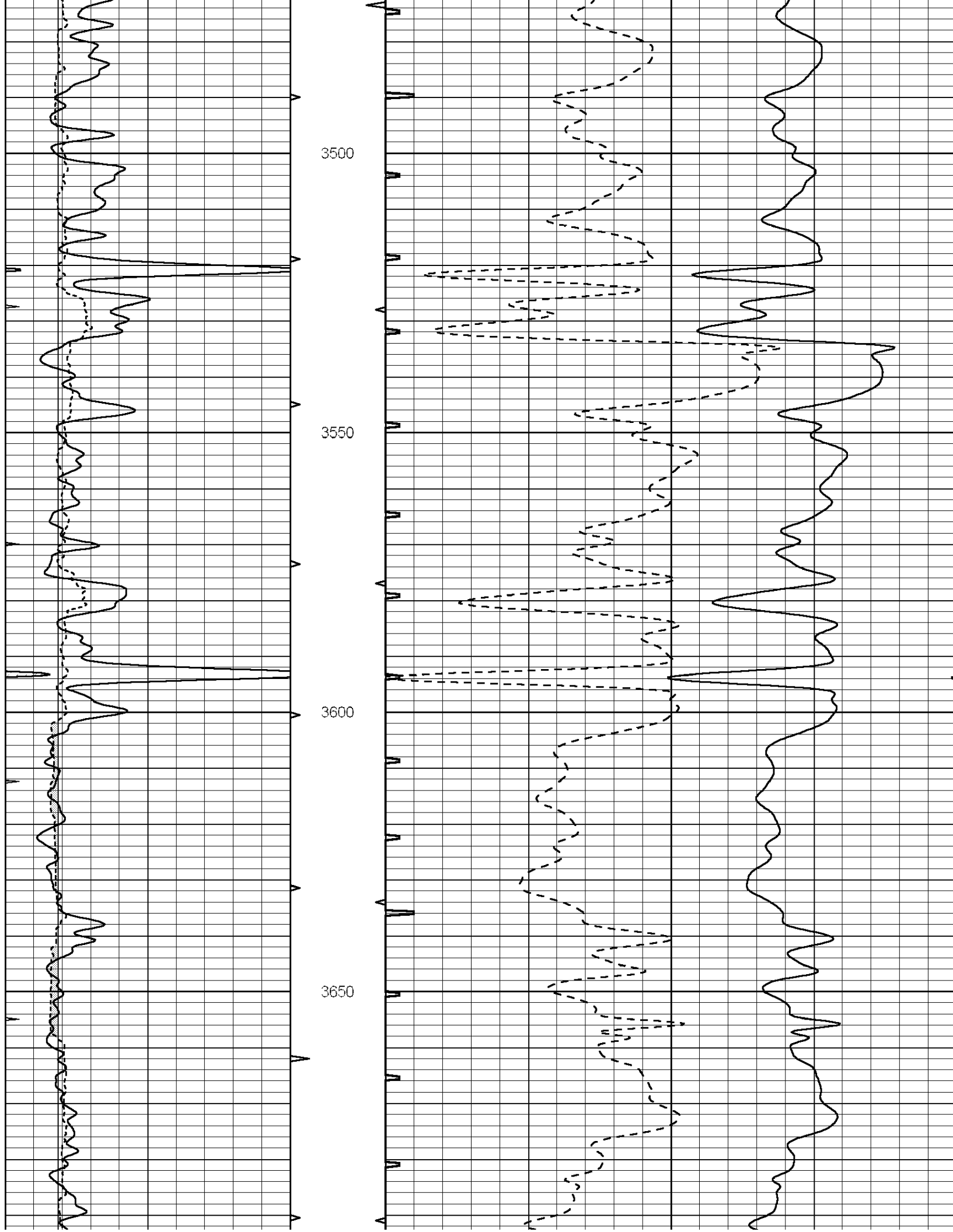
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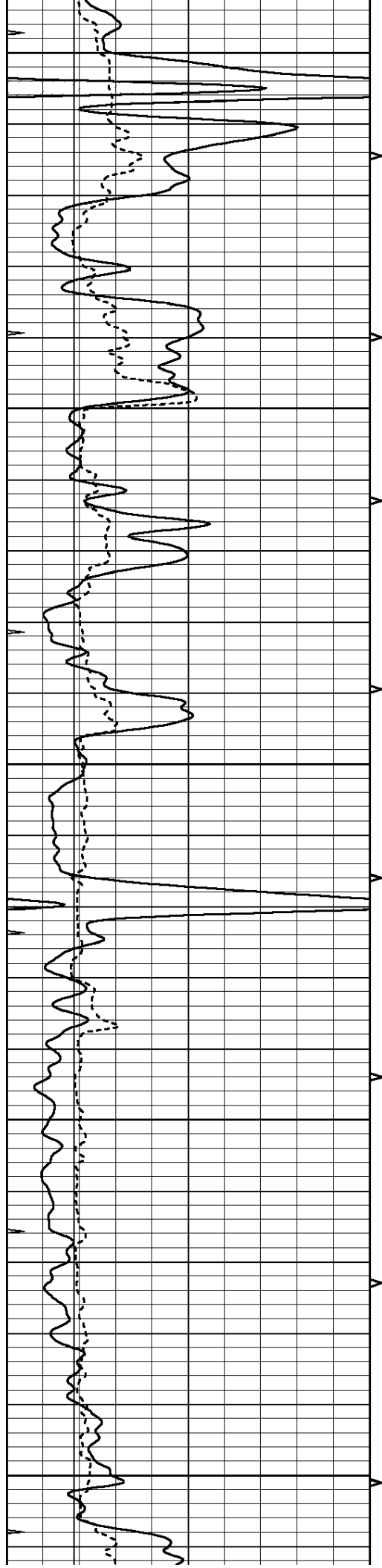
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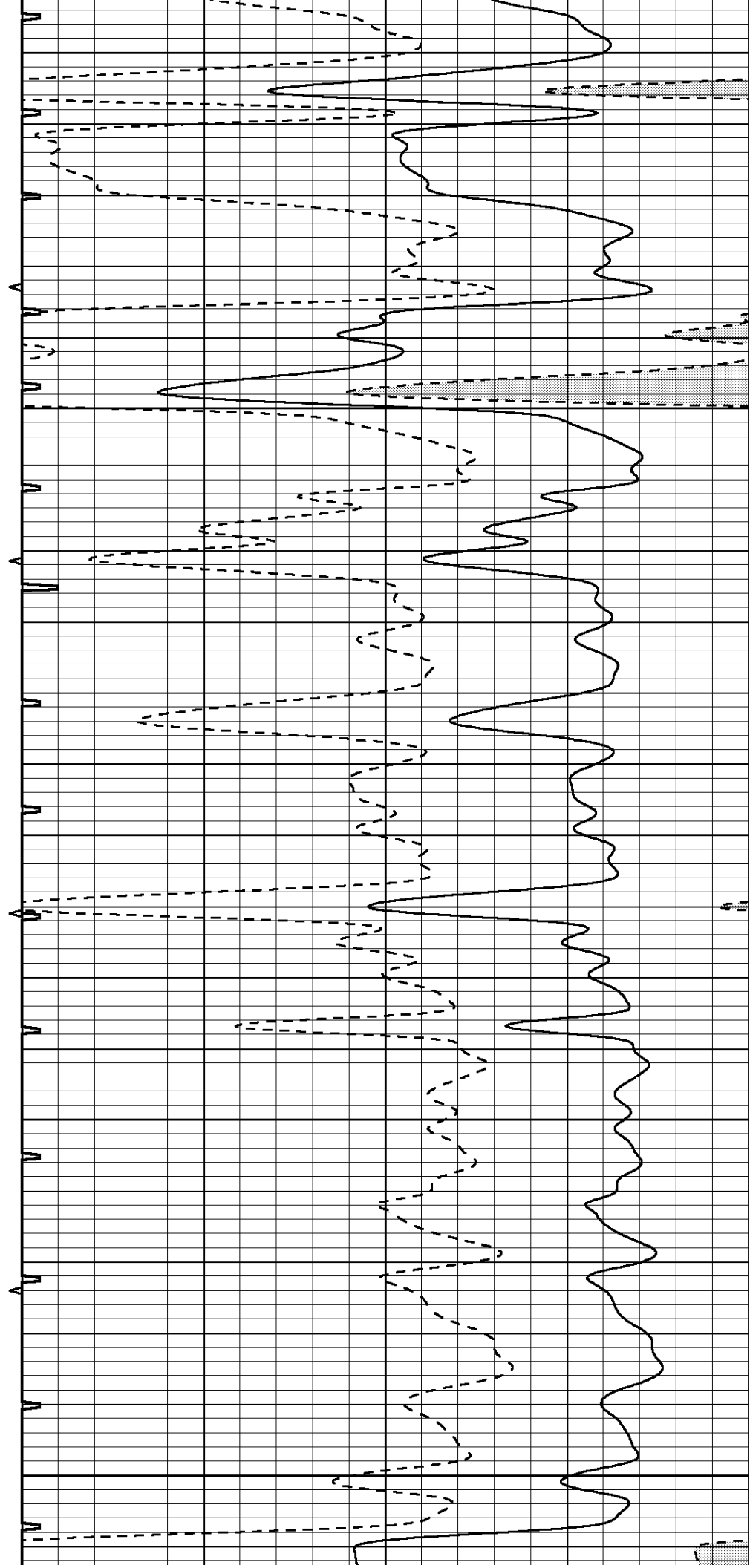
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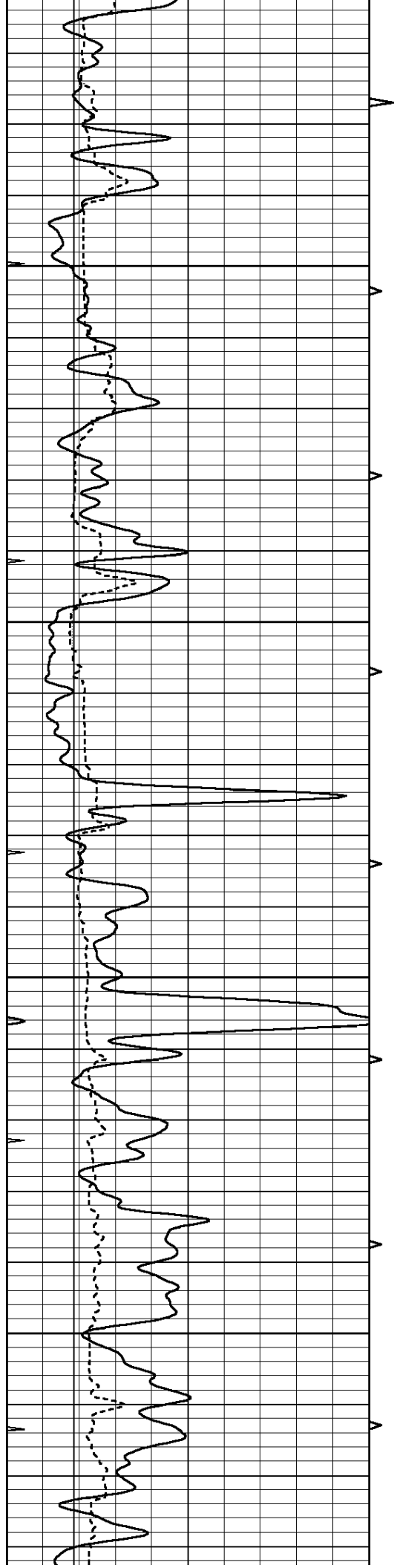
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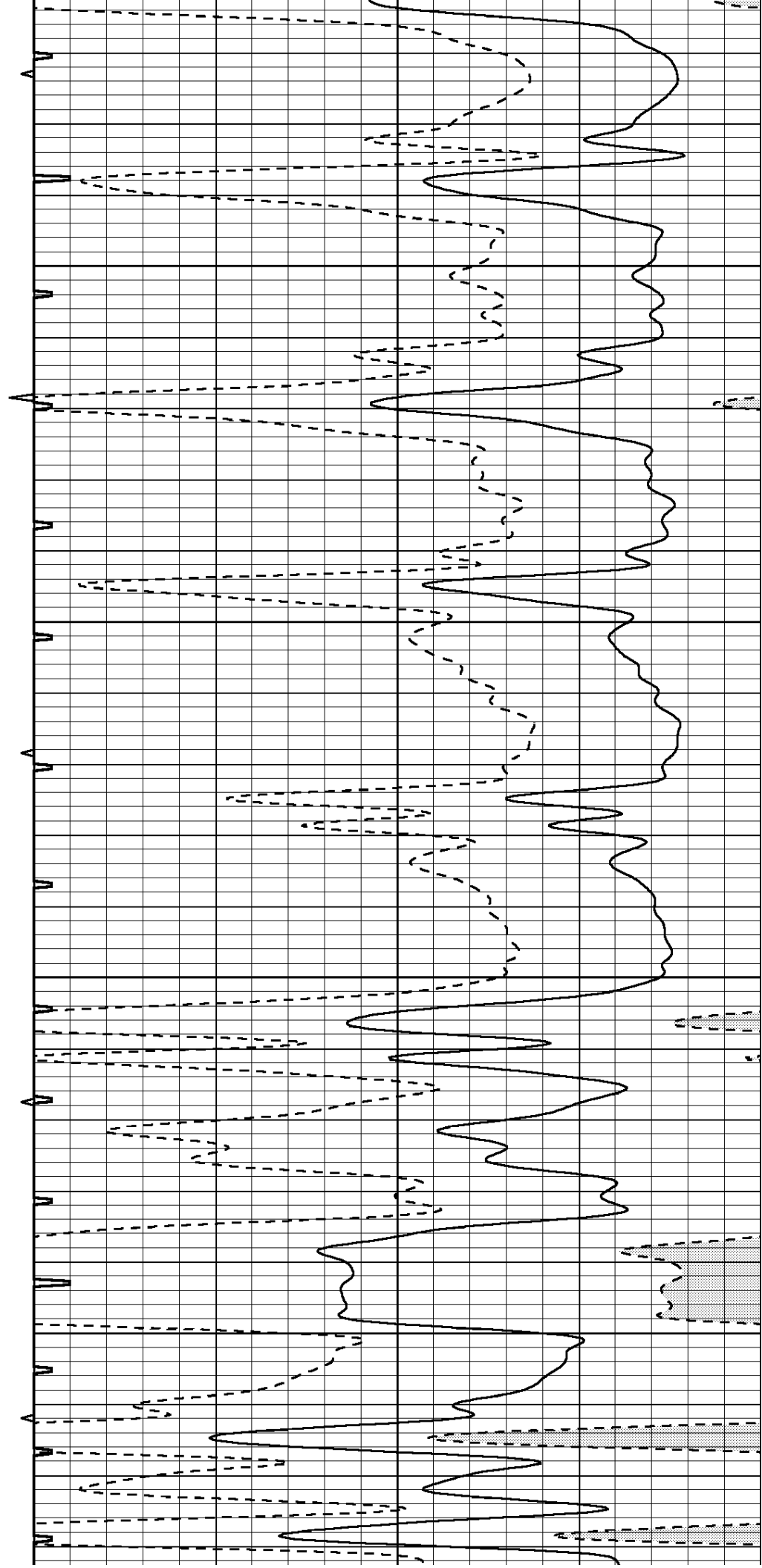


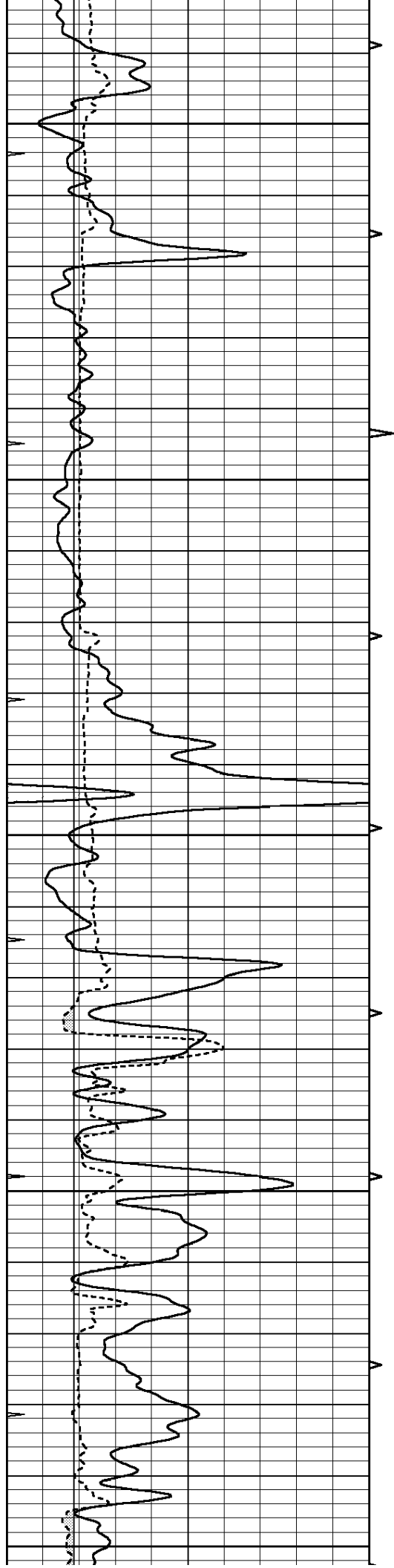
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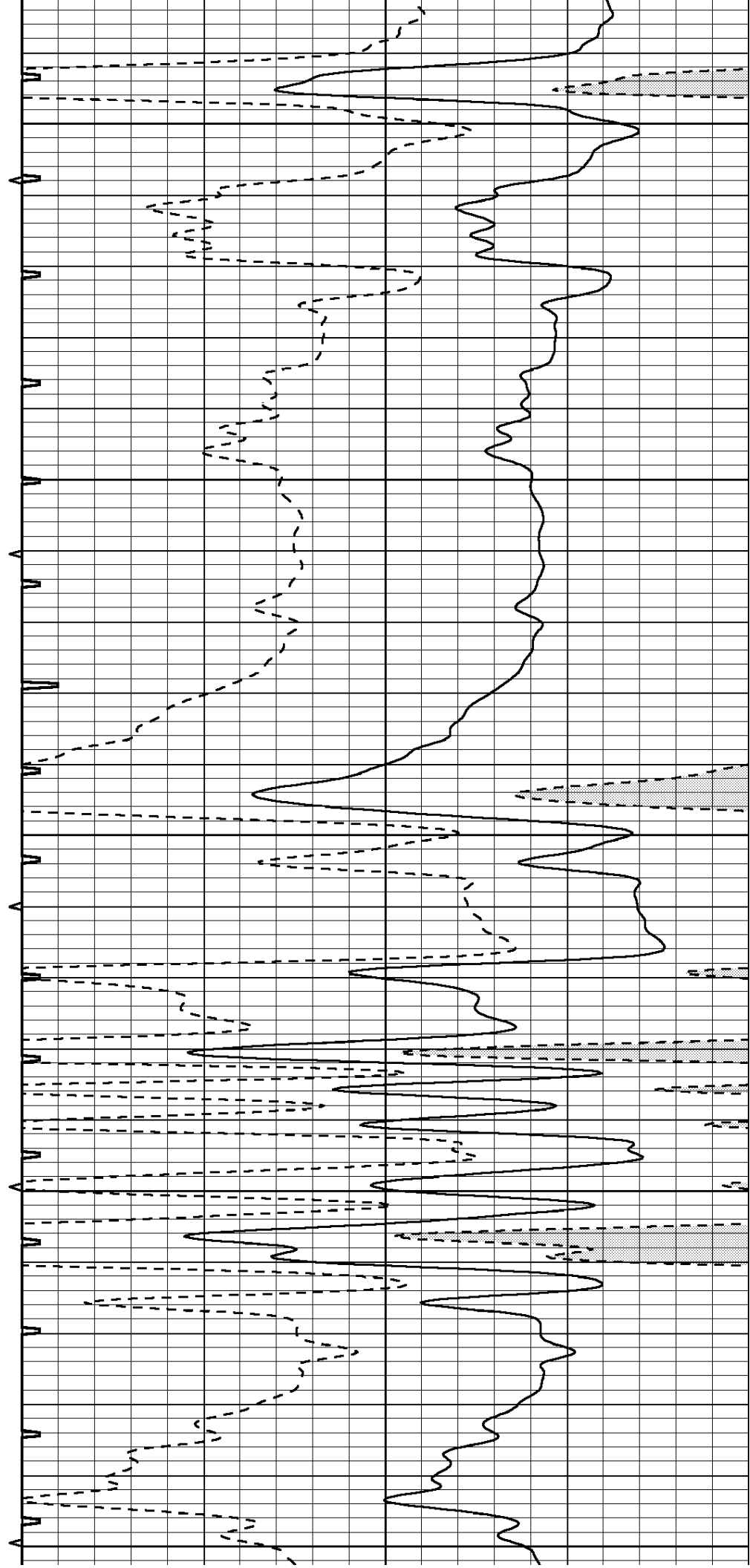
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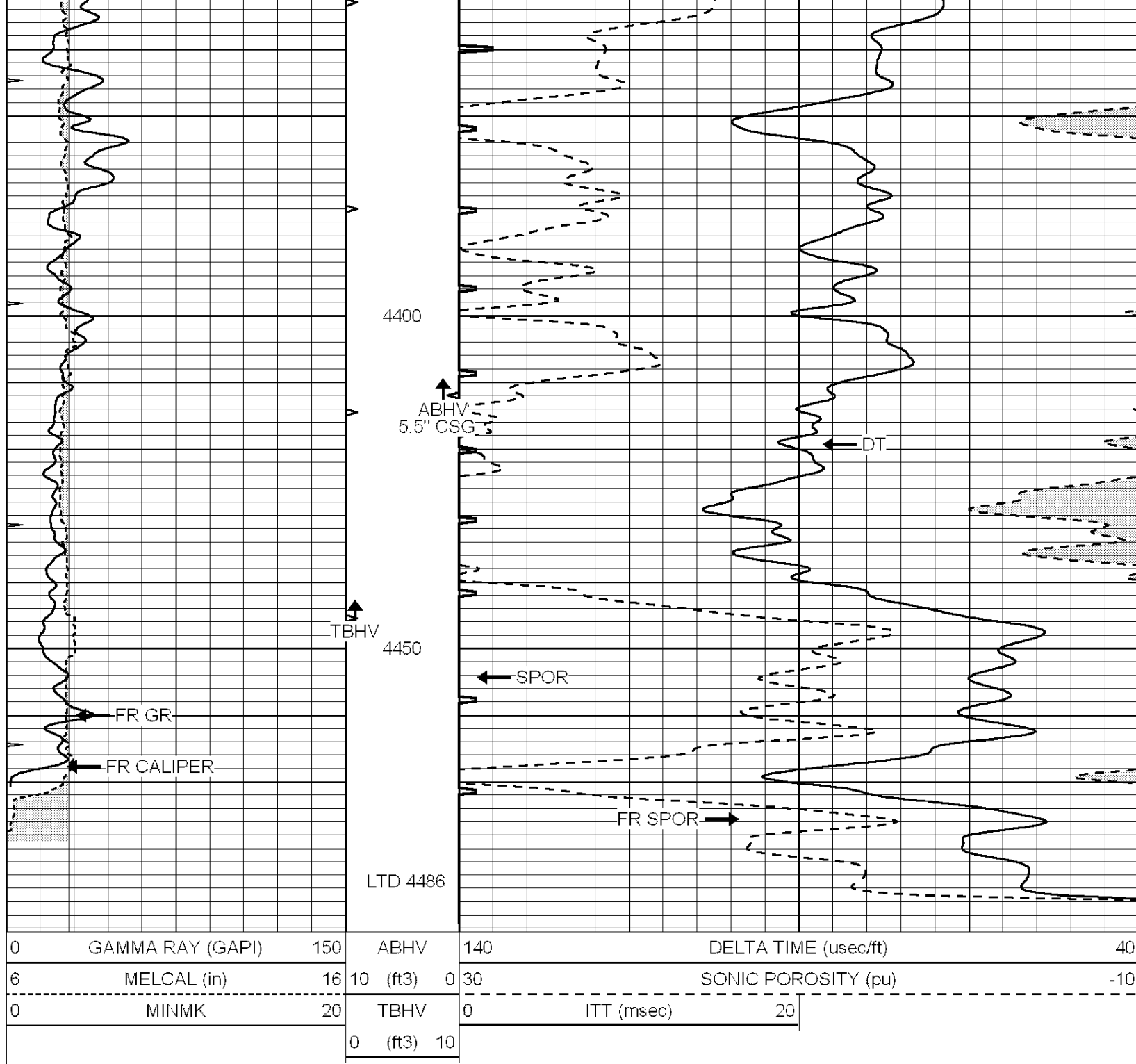
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REPEAT SECTION

Database File: 012047pe.db
 Dataset Pathname: pass5.1.2
 Presentation Format: _slt
 Dataset Creation: Fri Nov 29 17:17:04 2013 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240

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

