



SUPERIOR
Hays,
Kansas

SONIC
LOG

Company		EDISON OPERATING CO., LLC.	
Well		STERLING #1-31	
Field		HARDTNER	
County		BARBER	
State		KANSAS	
Company		EDISON OPERATING COMPANY, LLC	
Well		STERLING #1-31	
Field		HARDTNER	
County		BARBER	
State		KANSAS	
Location:		API # : 15-007-23765-0000	
Permanent Datum		GROUND LEVEL	
Log Measured From		KELLY BUSHING 10' A.G.L.	
Drilling Measured From		KELLY BUSHING	
SEC 31 TWP 34S RGE 12W		Elevation	
1320' FNL & 330' FWL		CDL/CNL/PE	
		DIL/MEL	
		Elevation	
		K.B. 1471	
		D.F. 1469	
		G.L. 1461	
Date	9/24/11		
Run Number	TWO		
Depth Driller	5476		
Depth Logger	5477		
Bottom Logged Interval	5470		
Top Log Interval	300		
Casing Driller	8 5/8"@331'		
Casing Logger	332'		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 4,000 PPM	
Density / Viscosity	9.1/48		
pH / Fluid Loss	11.0/8.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.85@88F		
Rmt @ Meas. Temp	.64@88F		
Rmc @ Meas. Temp	1.02@88F		
Source of Rmt / Rmc	MEASUREMENT		
Rm @ BHT	.58@129F		
Time Circulation Stopped	5 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	129F		
Equipment Number	4010		
Location	HAYS, KANSAS		
Recorded By	JEFF GRONEWEG		
Witnessed By	DEREK PATTERSON		

<<< Fold Here >>>

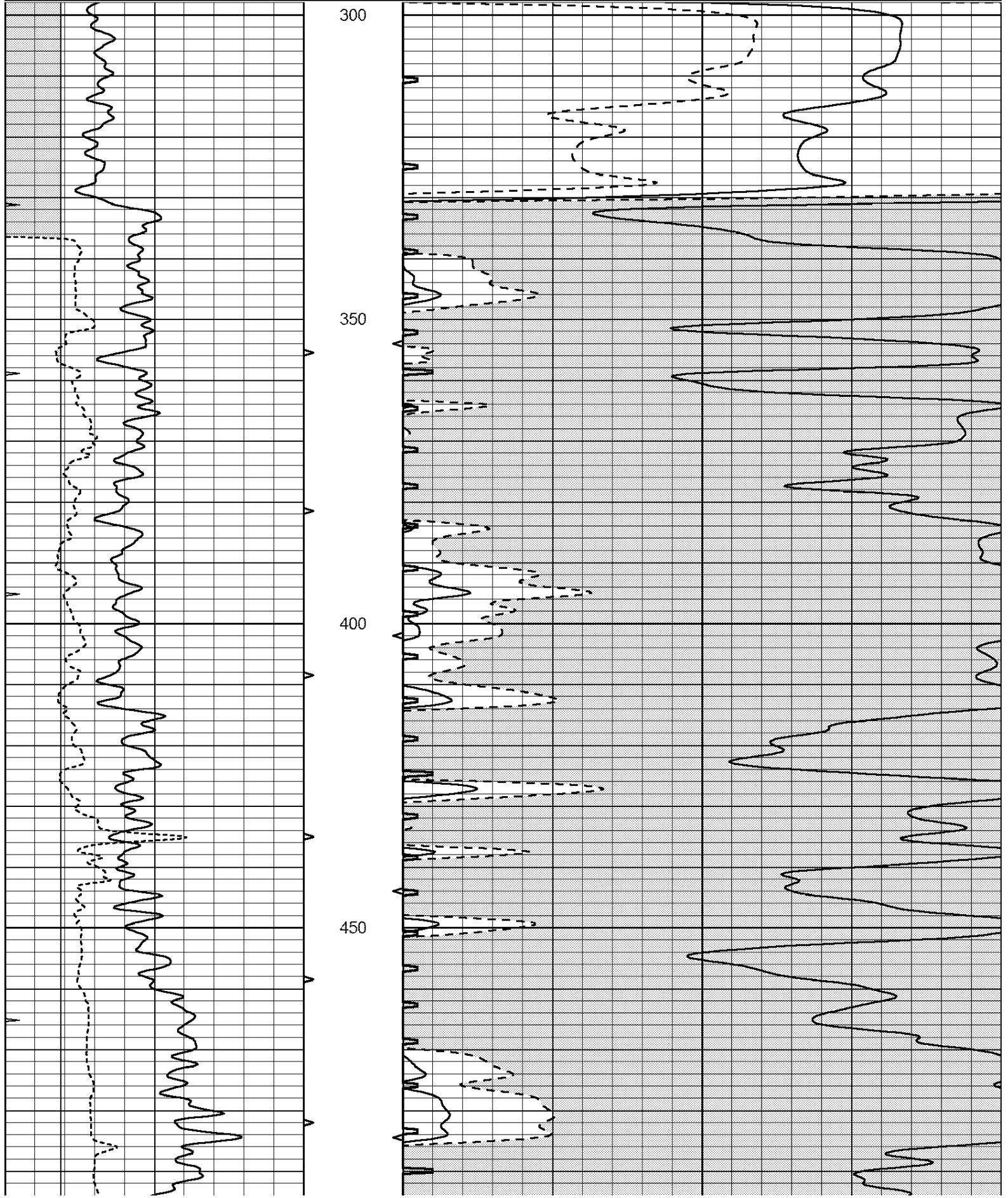
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

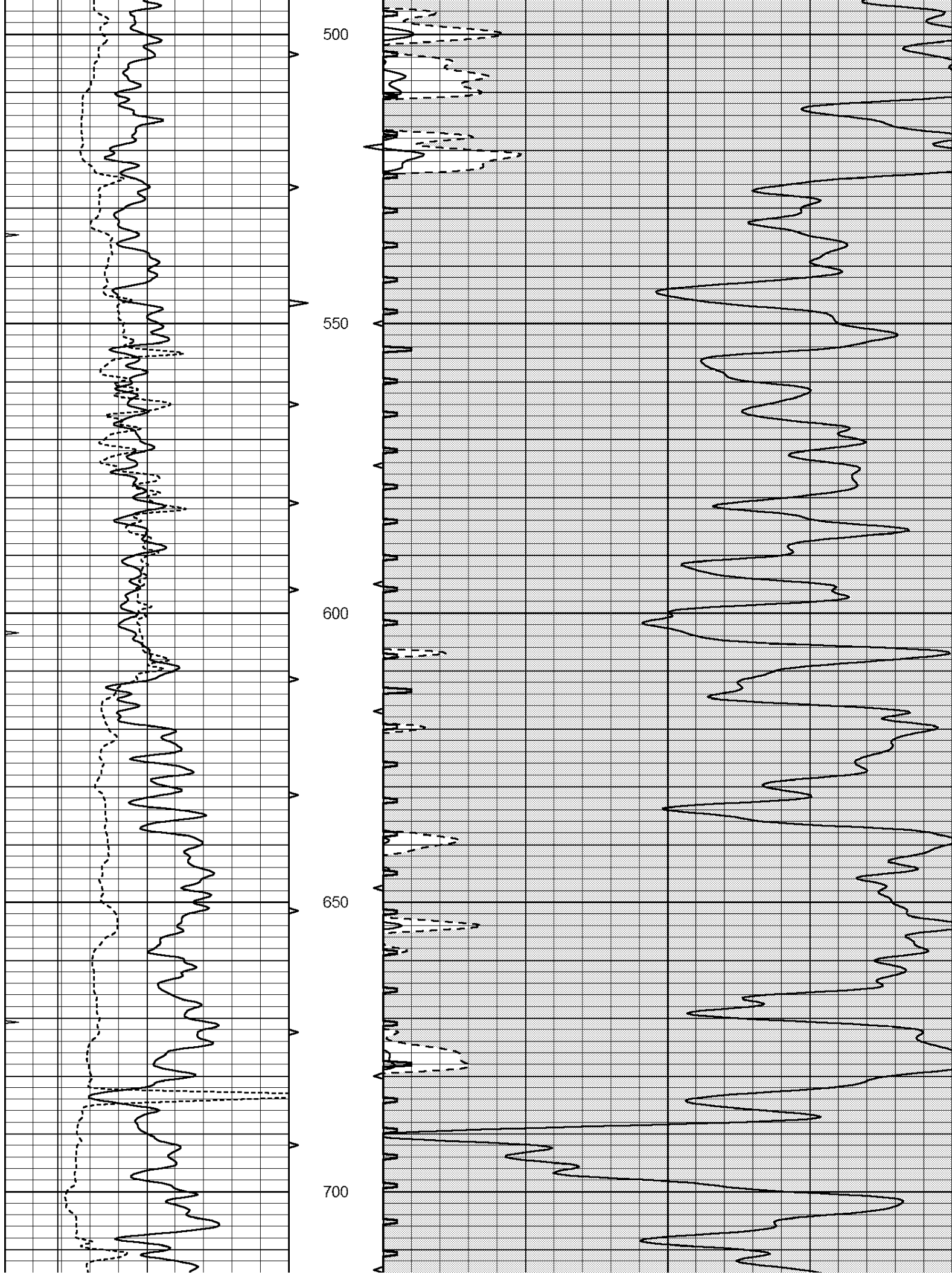
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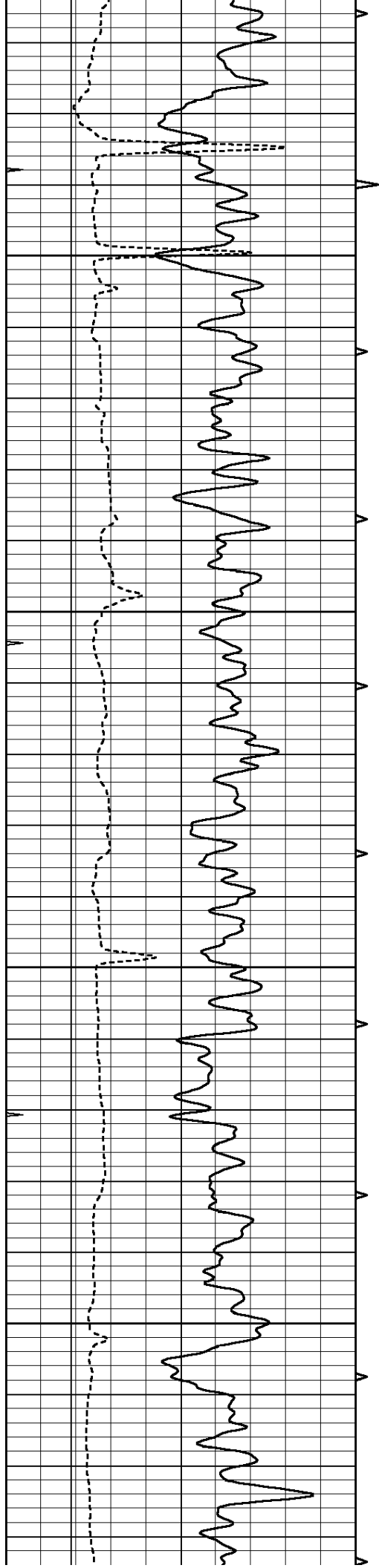
THANK YOU FOR USING SUPERIOR WELL SERVICE HAYS, KANSAS (785) 628-6395
DIRECTIONS
HARDTNER, KS - NORTH ON BLACKTOP 2 1/2 MILES TO RATTLESNAKE TRAIL
2 1/2 MILES WEST - SOUTH INTO

Database File: 007453pe.db
Dataset Pathname: pass6.2
Presentation Format: slt
Dataset Creation: Sat Sep 24 18:33:19 2011
Charted by: Depth in Feet scaled 1:240

Charted by: _____		Depth in Feet scaled 1:12.5				
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			





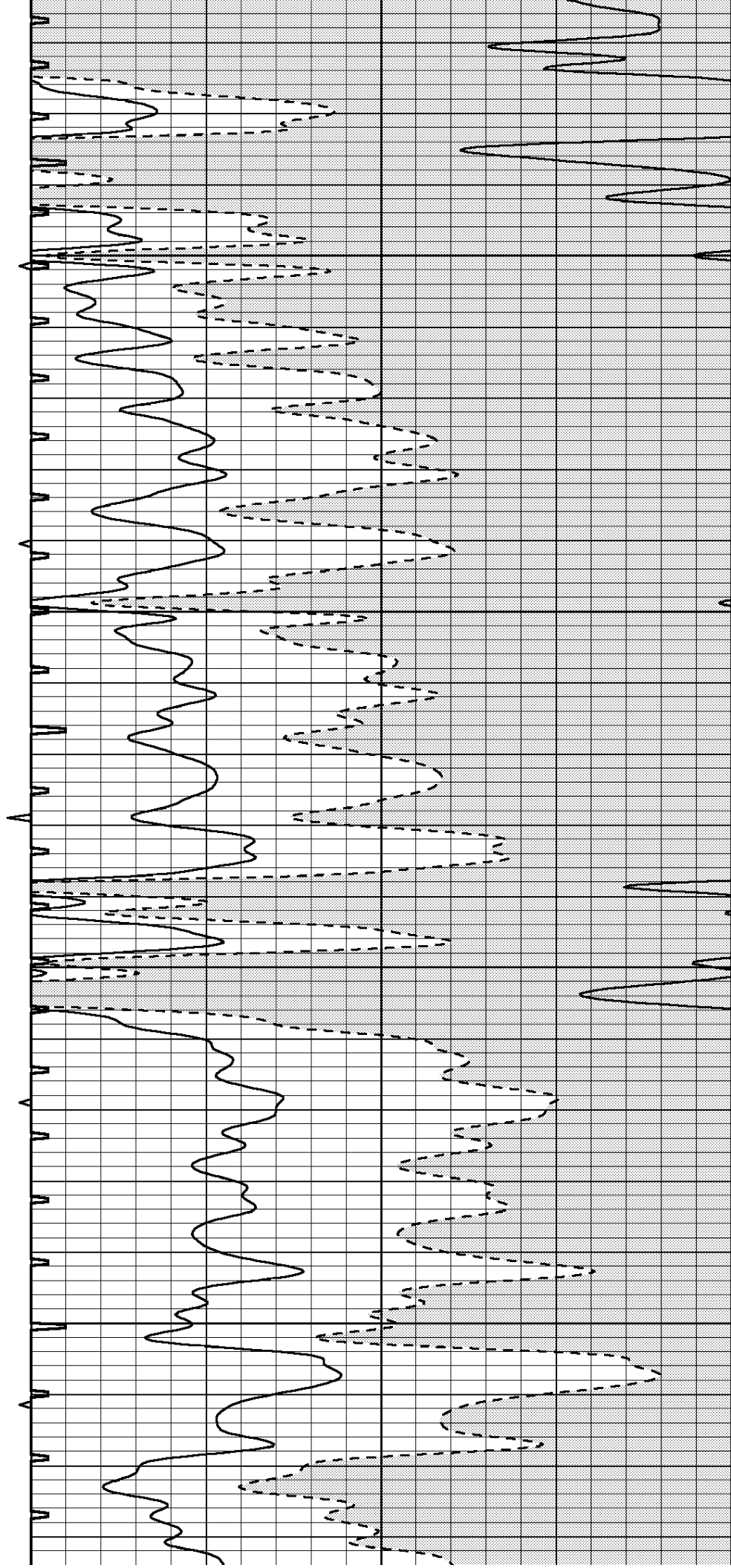


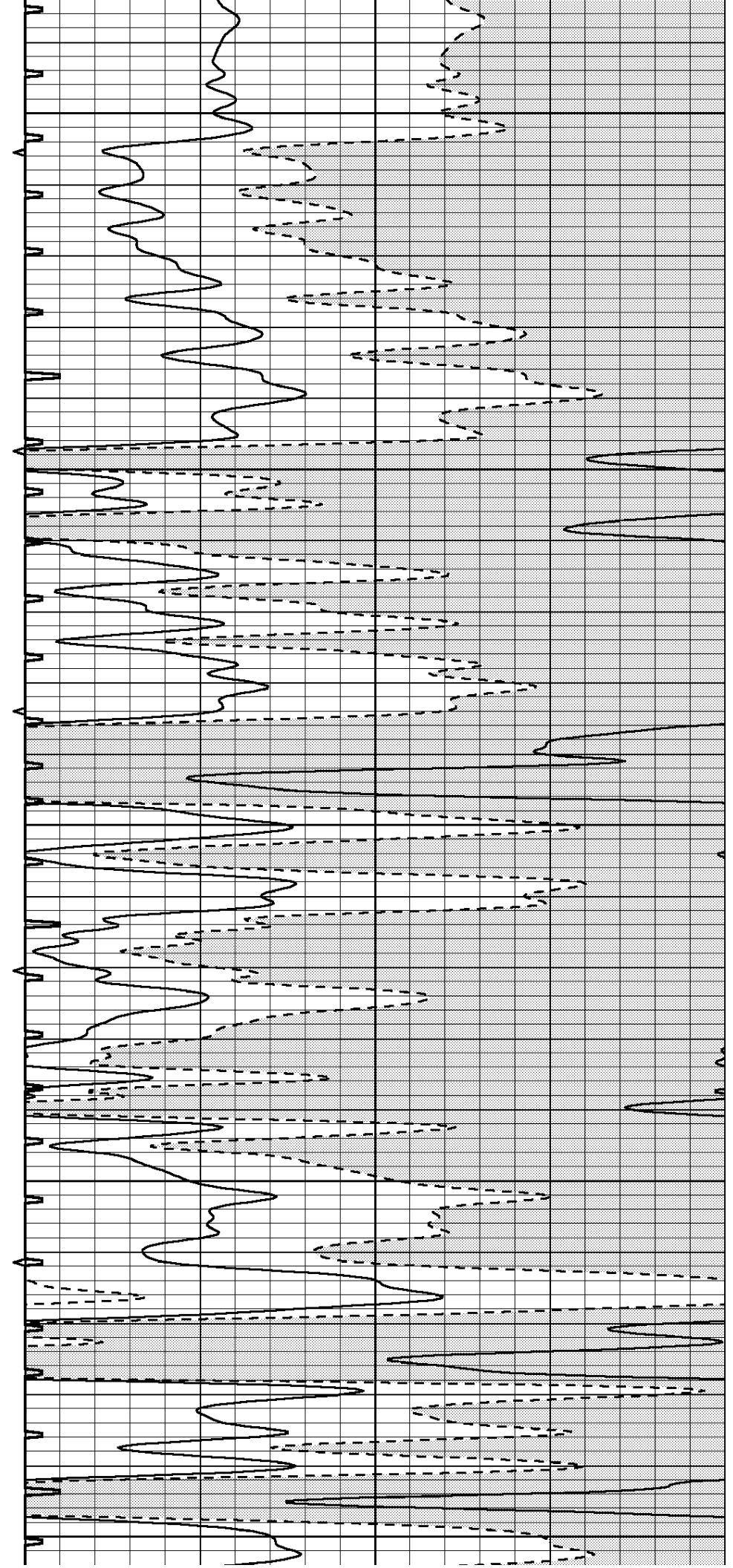
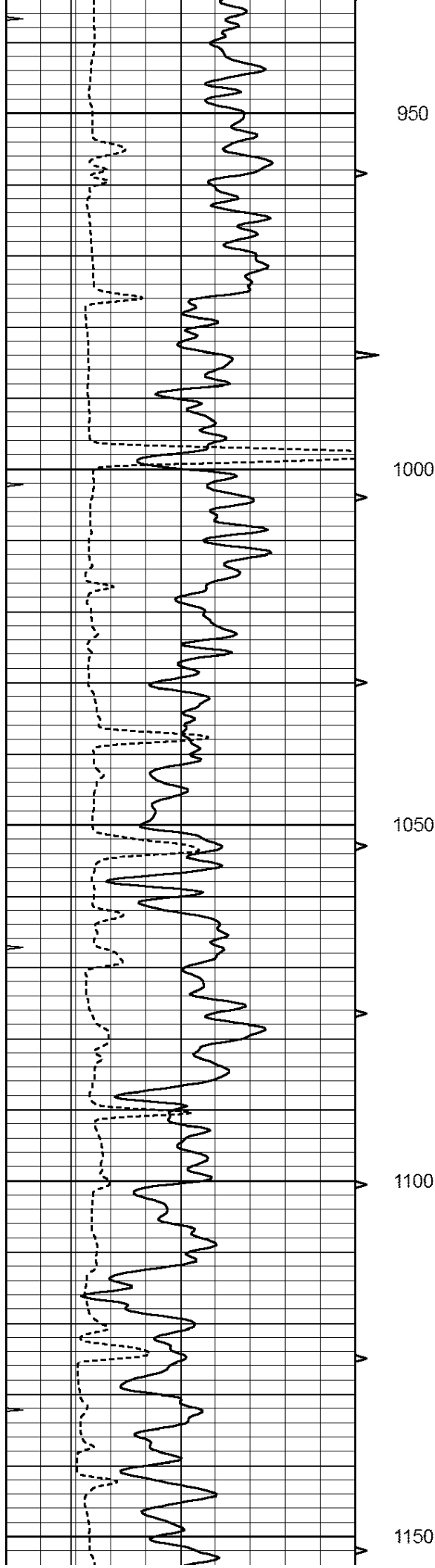
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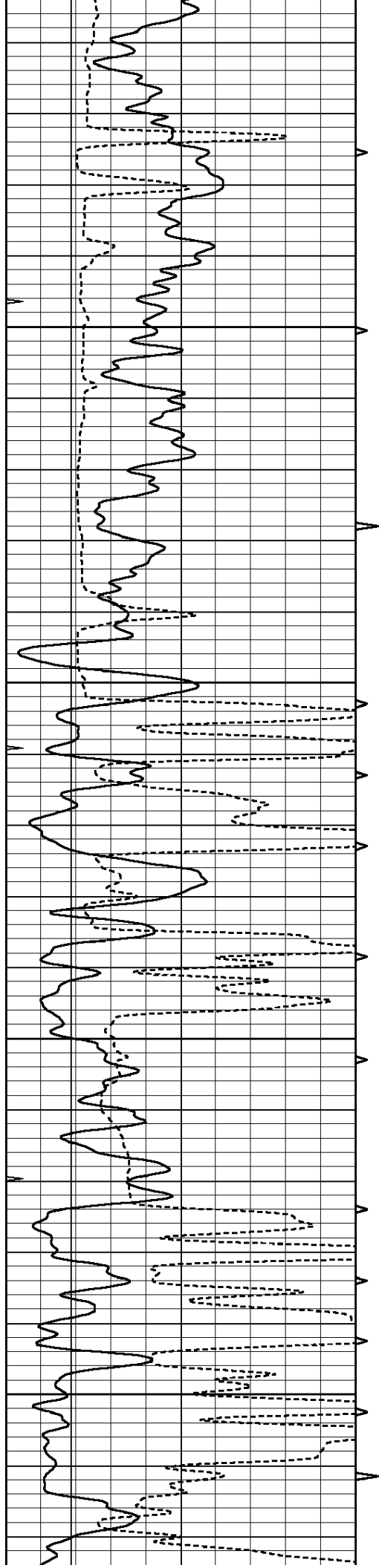
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850

900





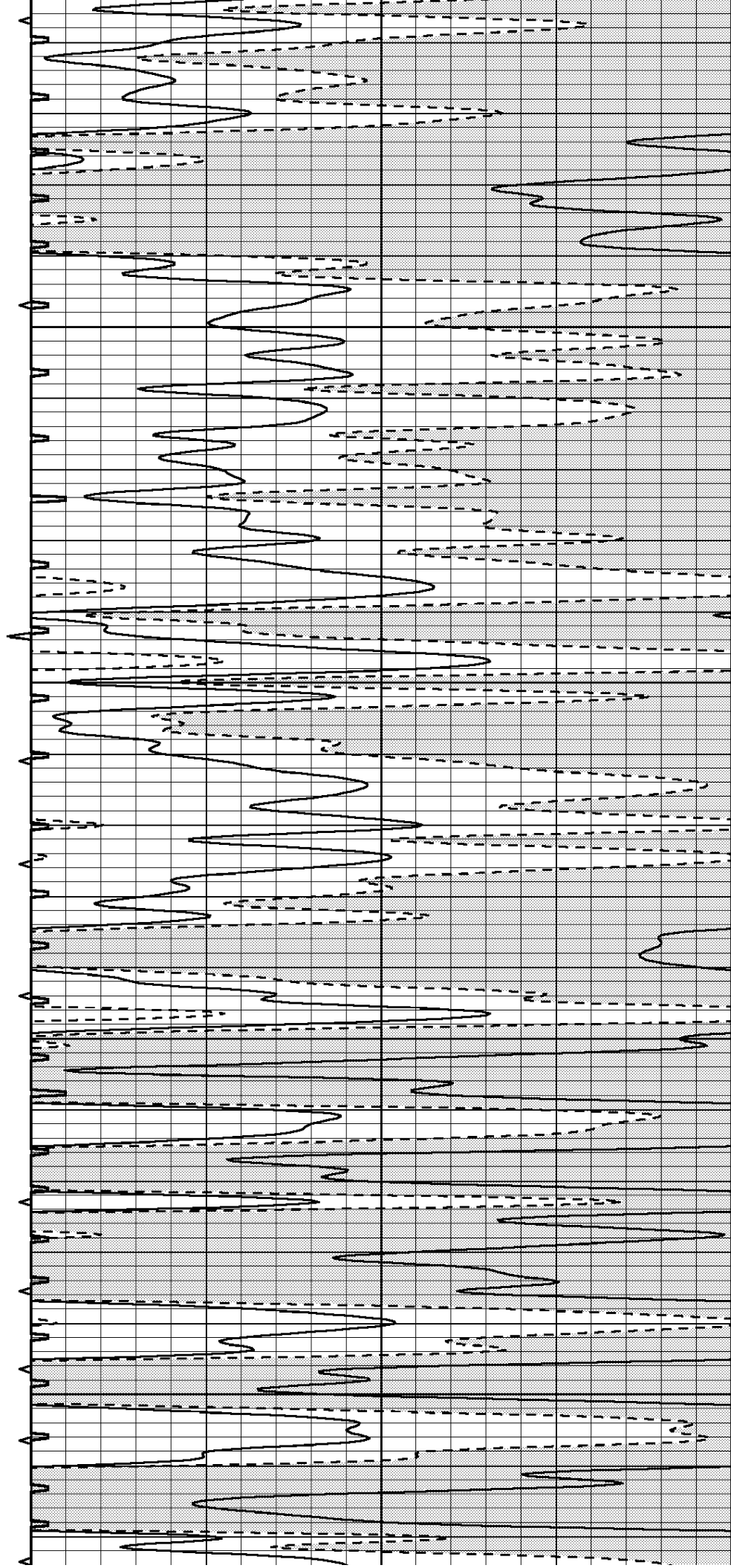


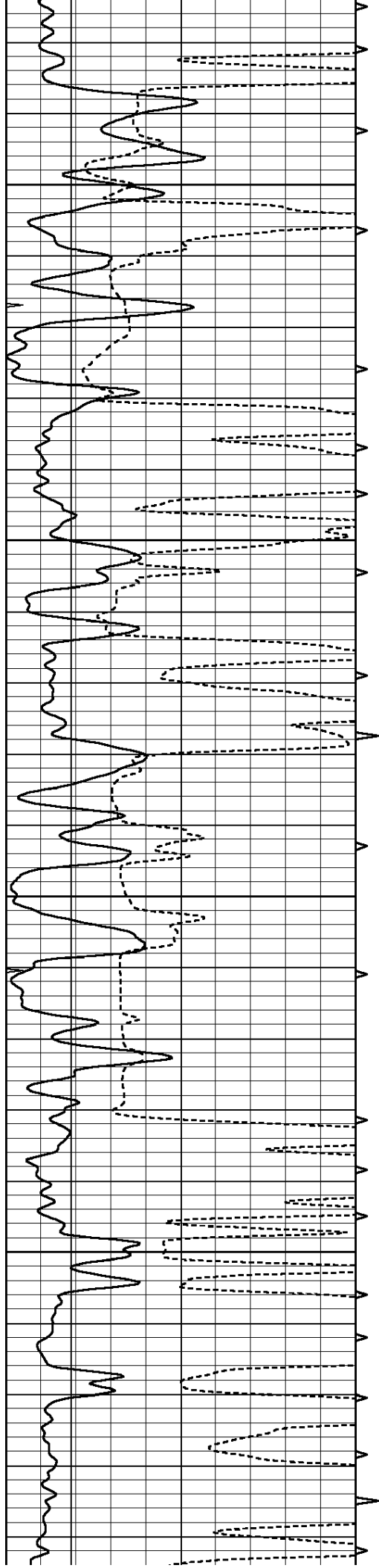
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1300

1350



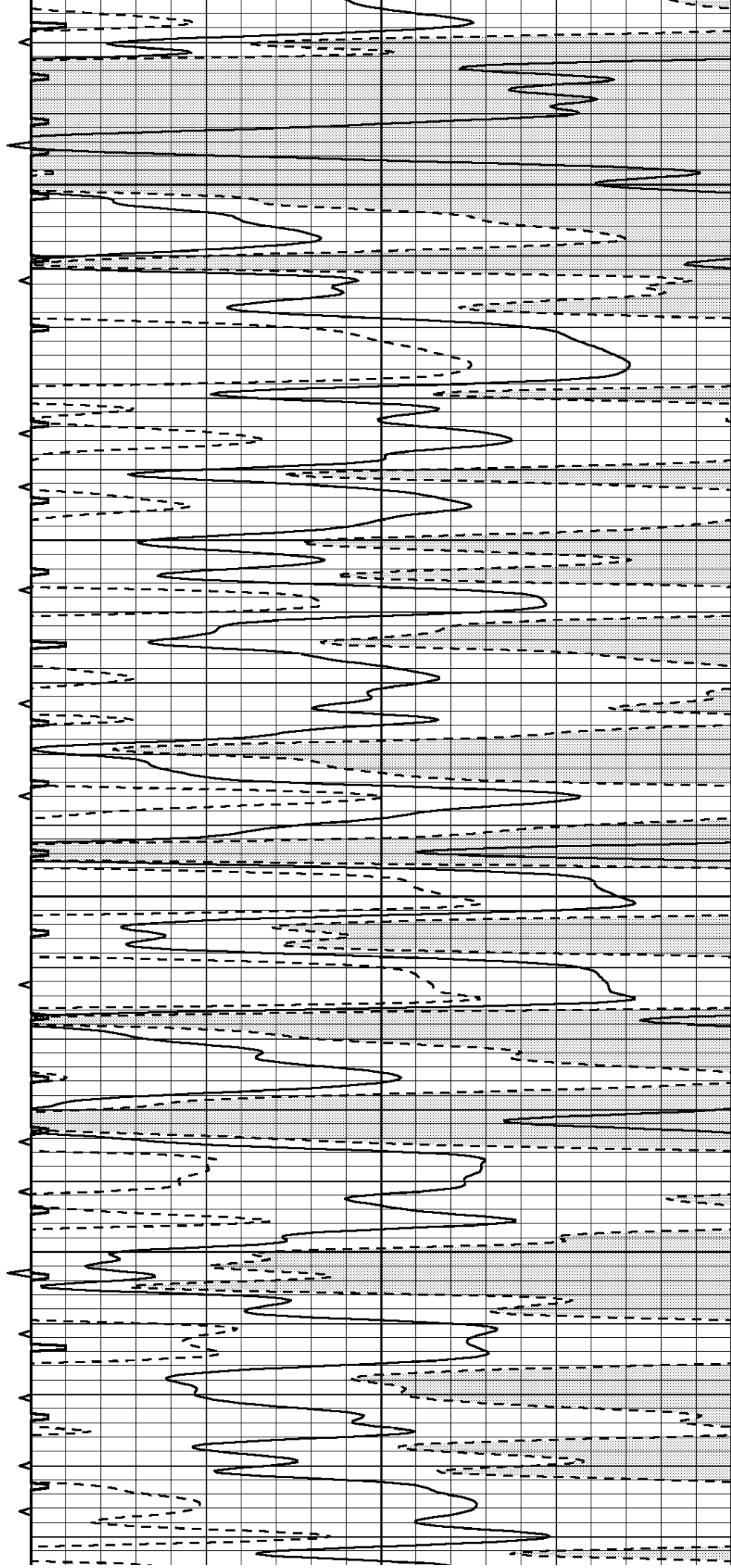


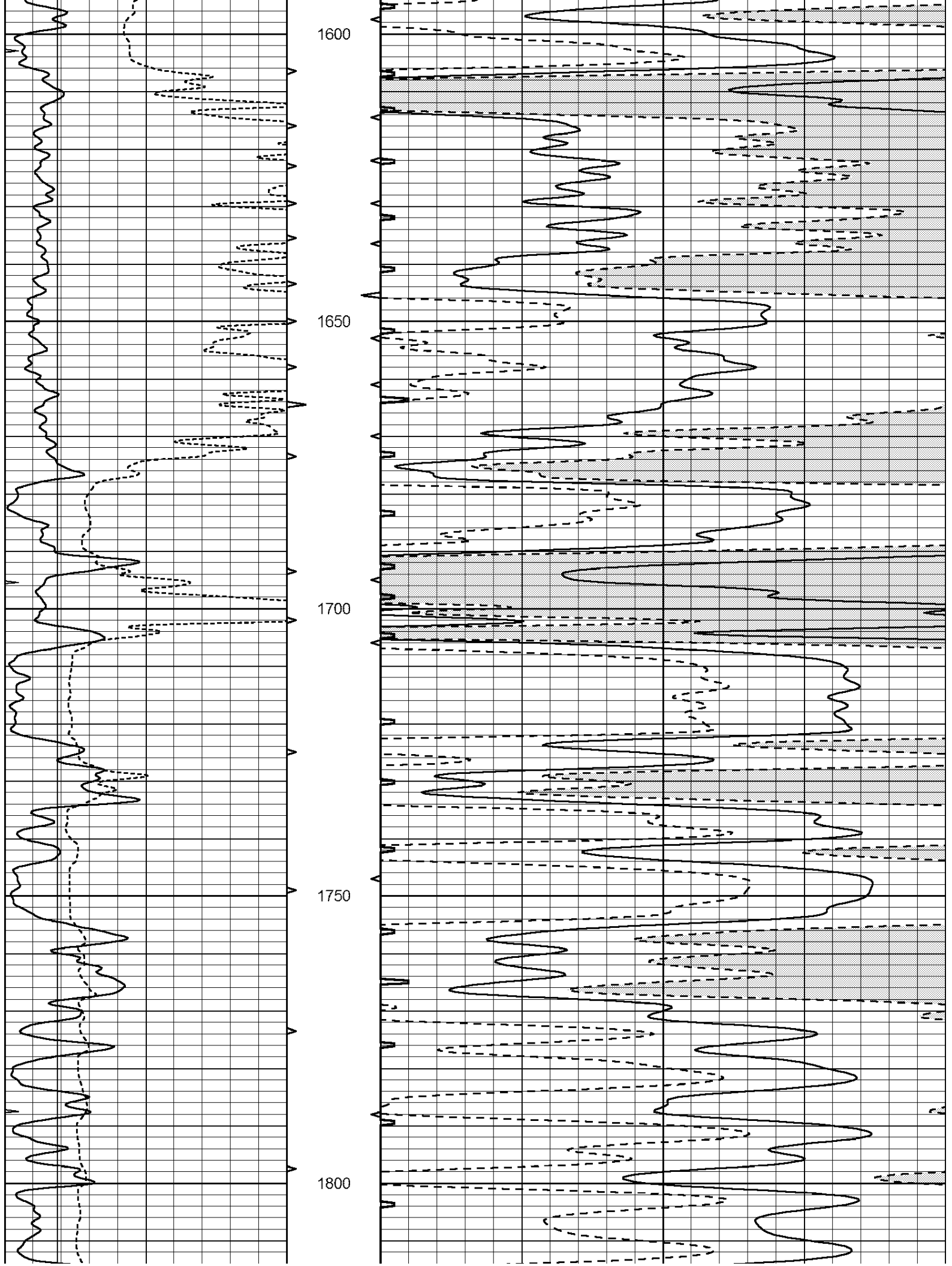
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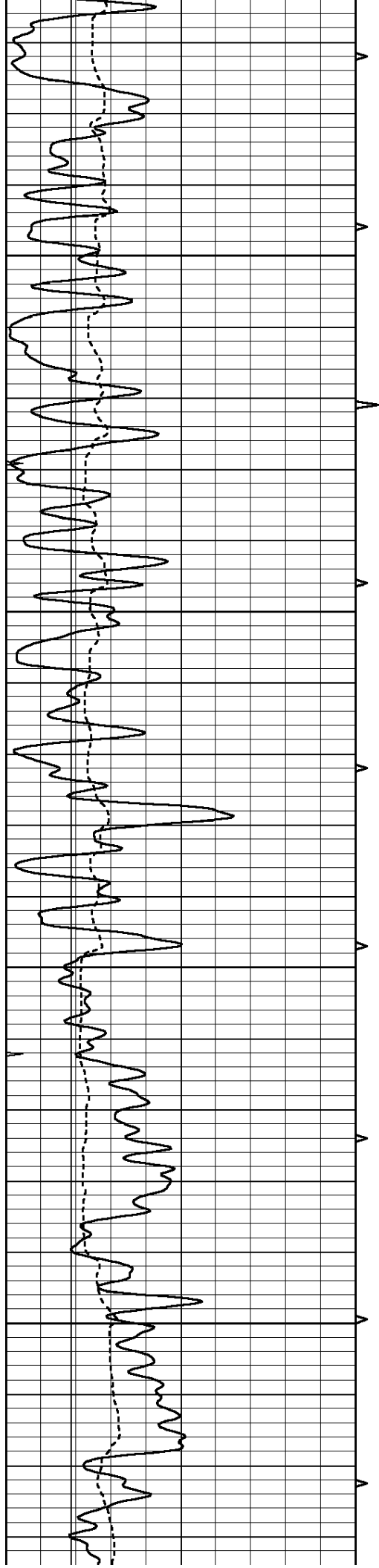
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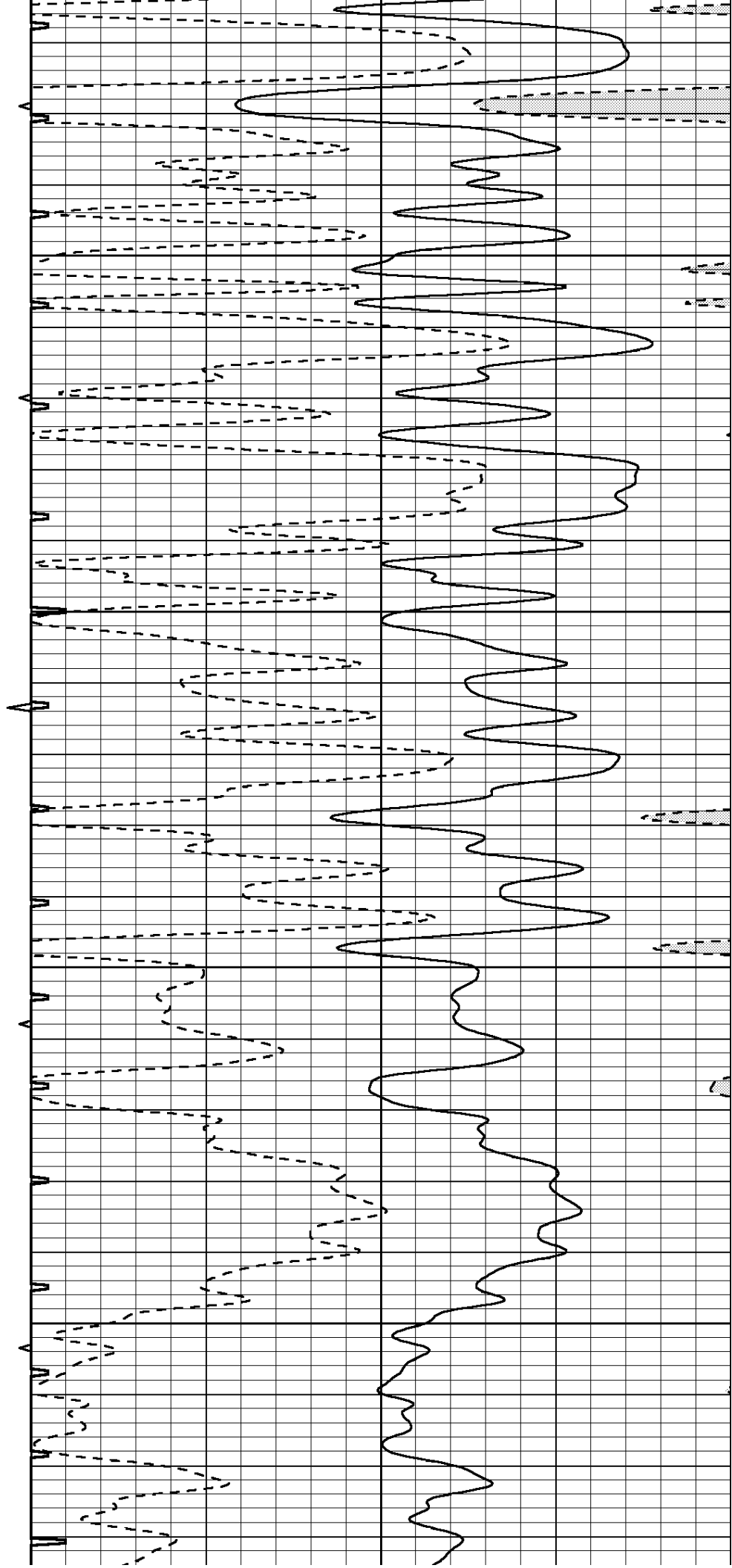


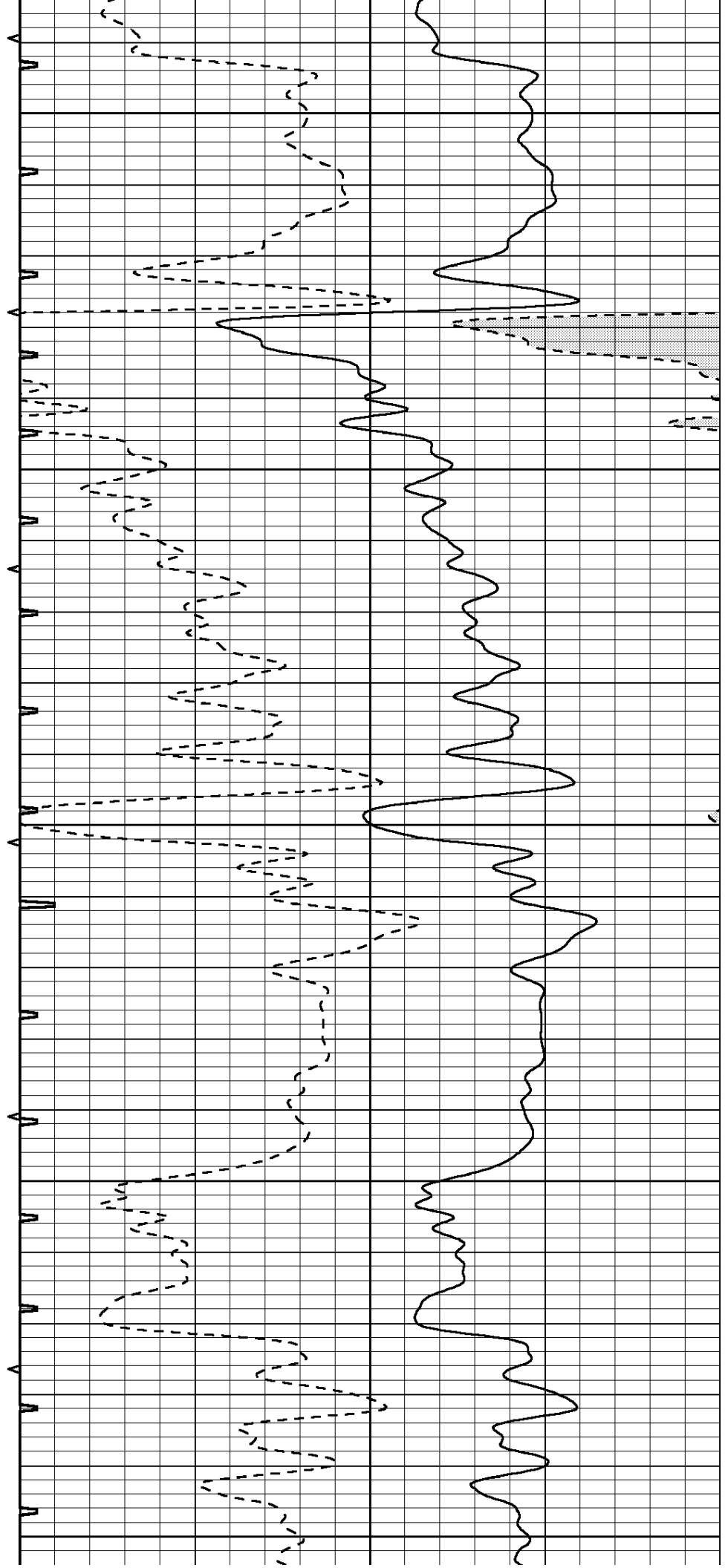
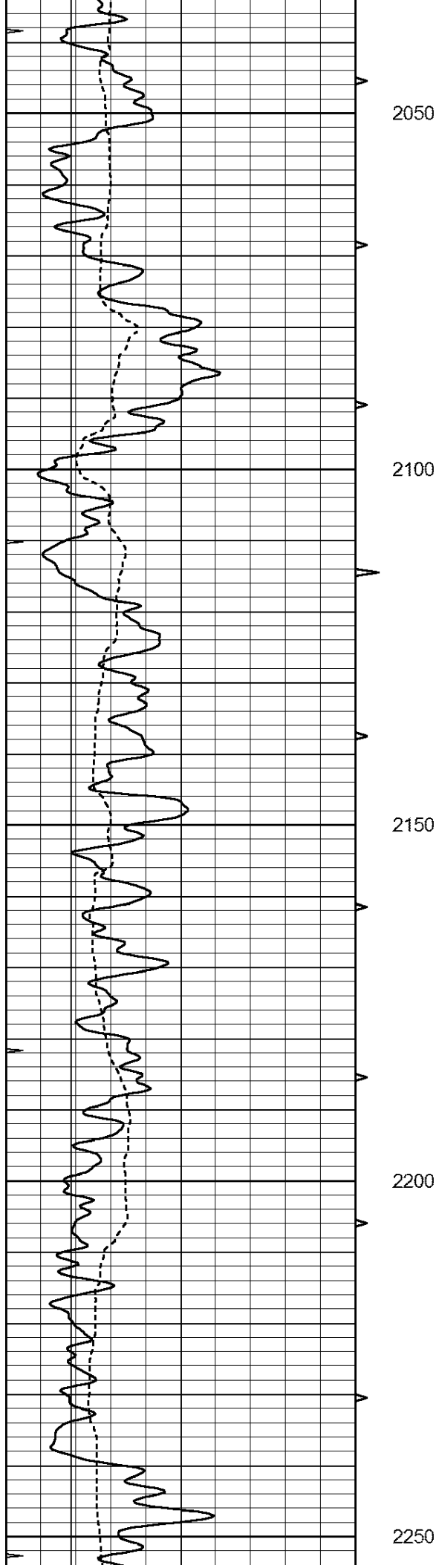
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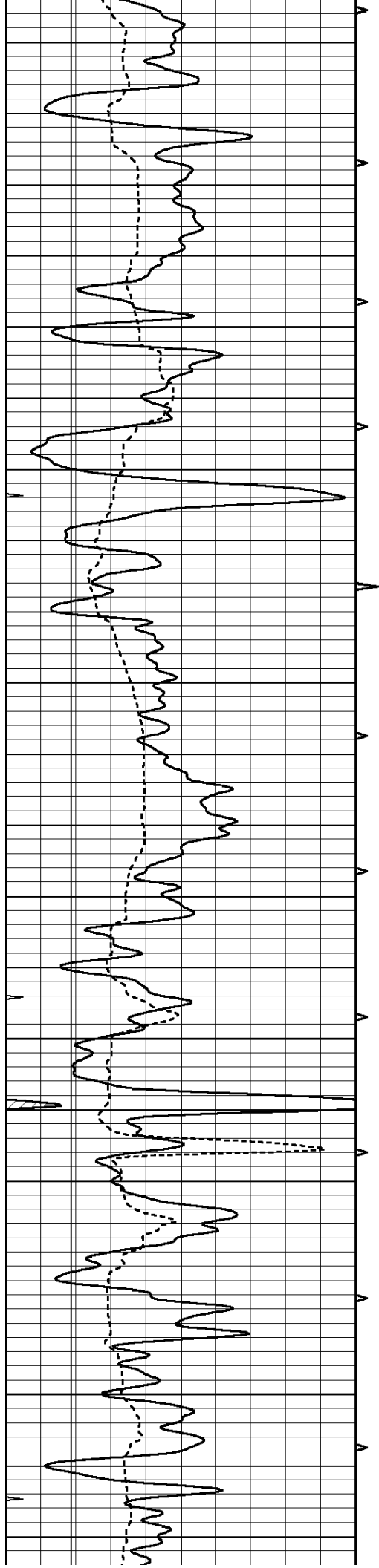
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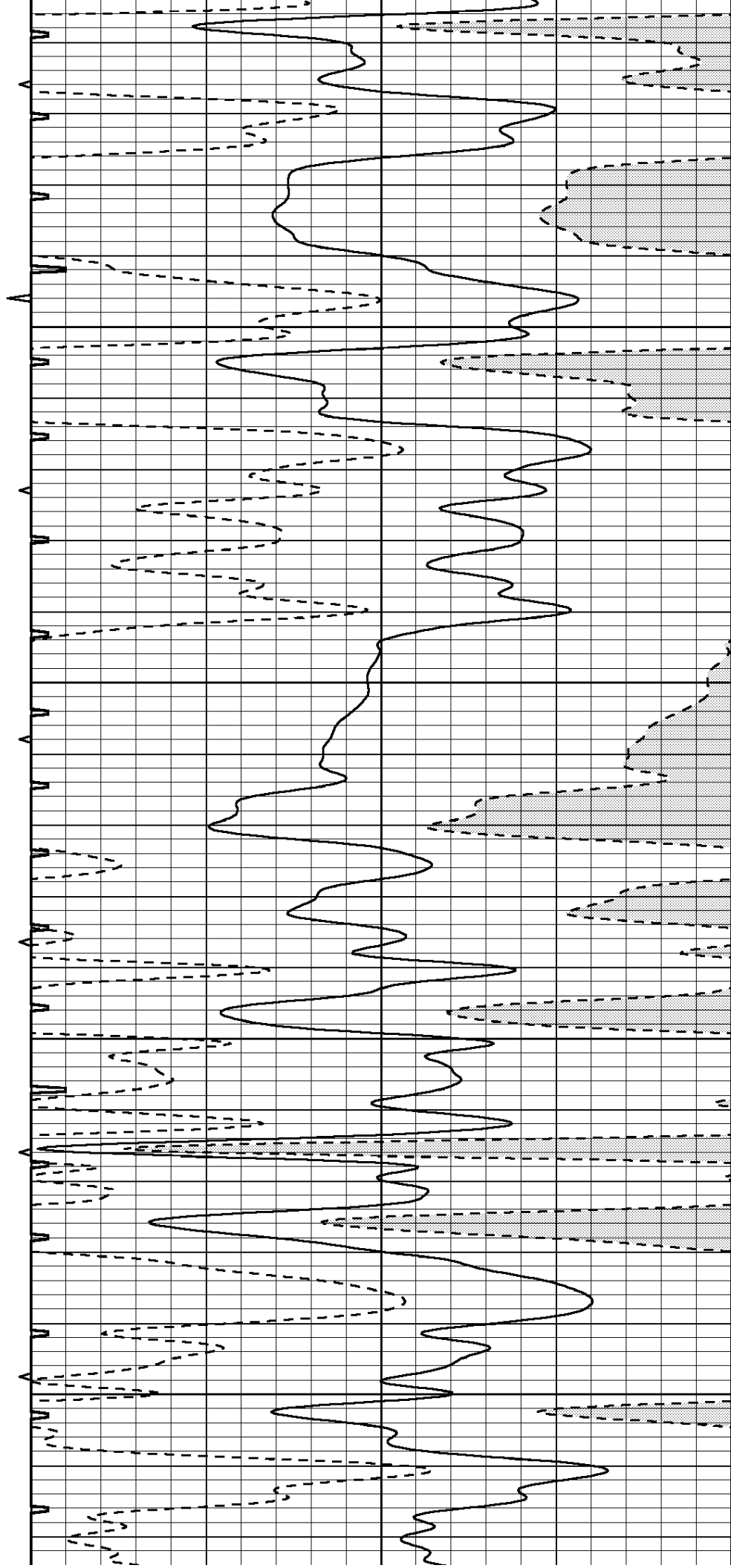


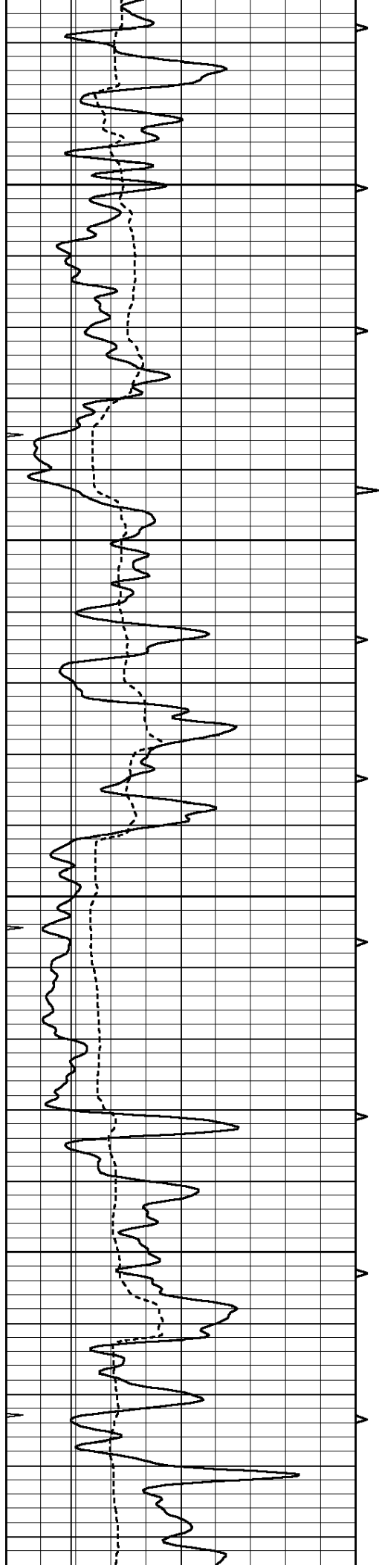
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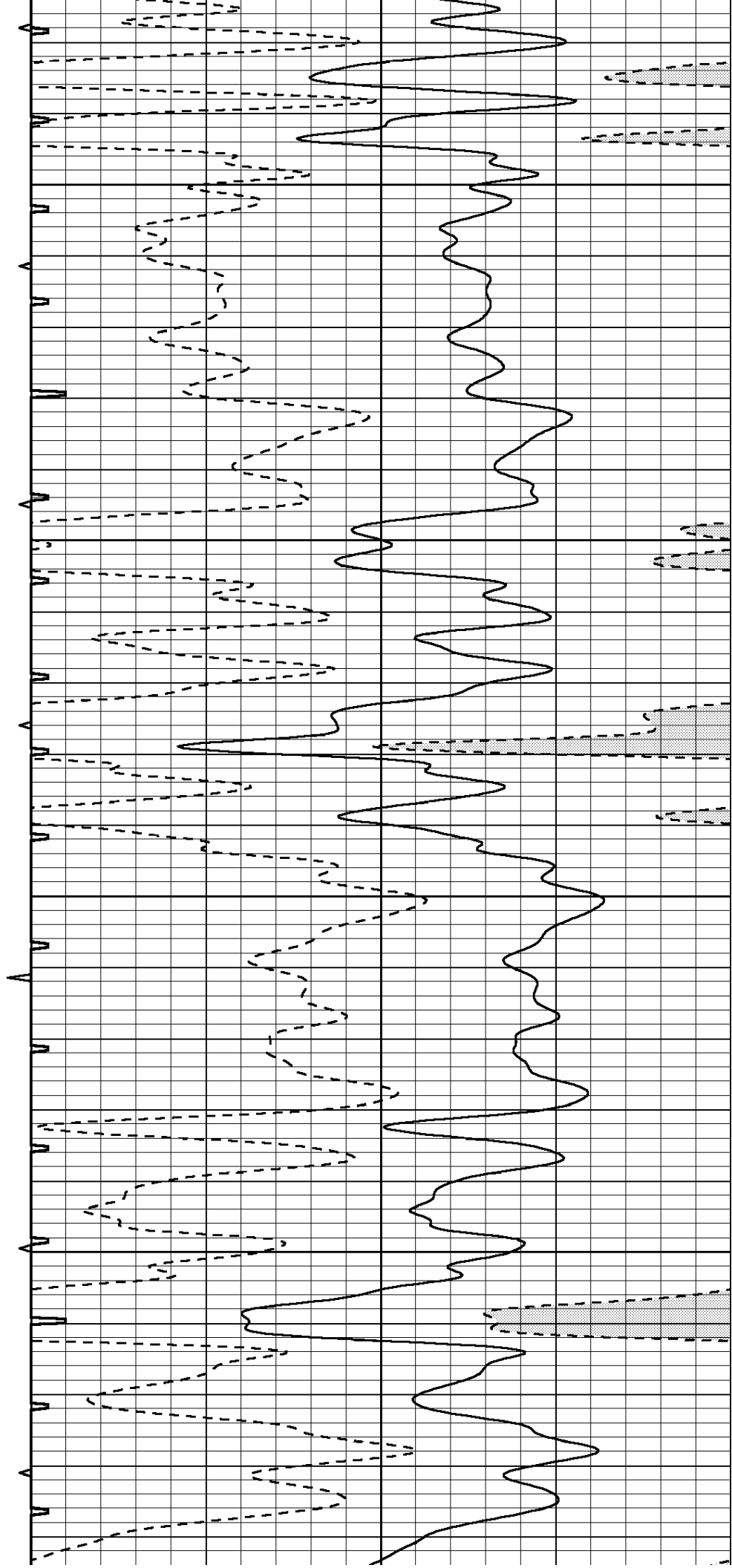


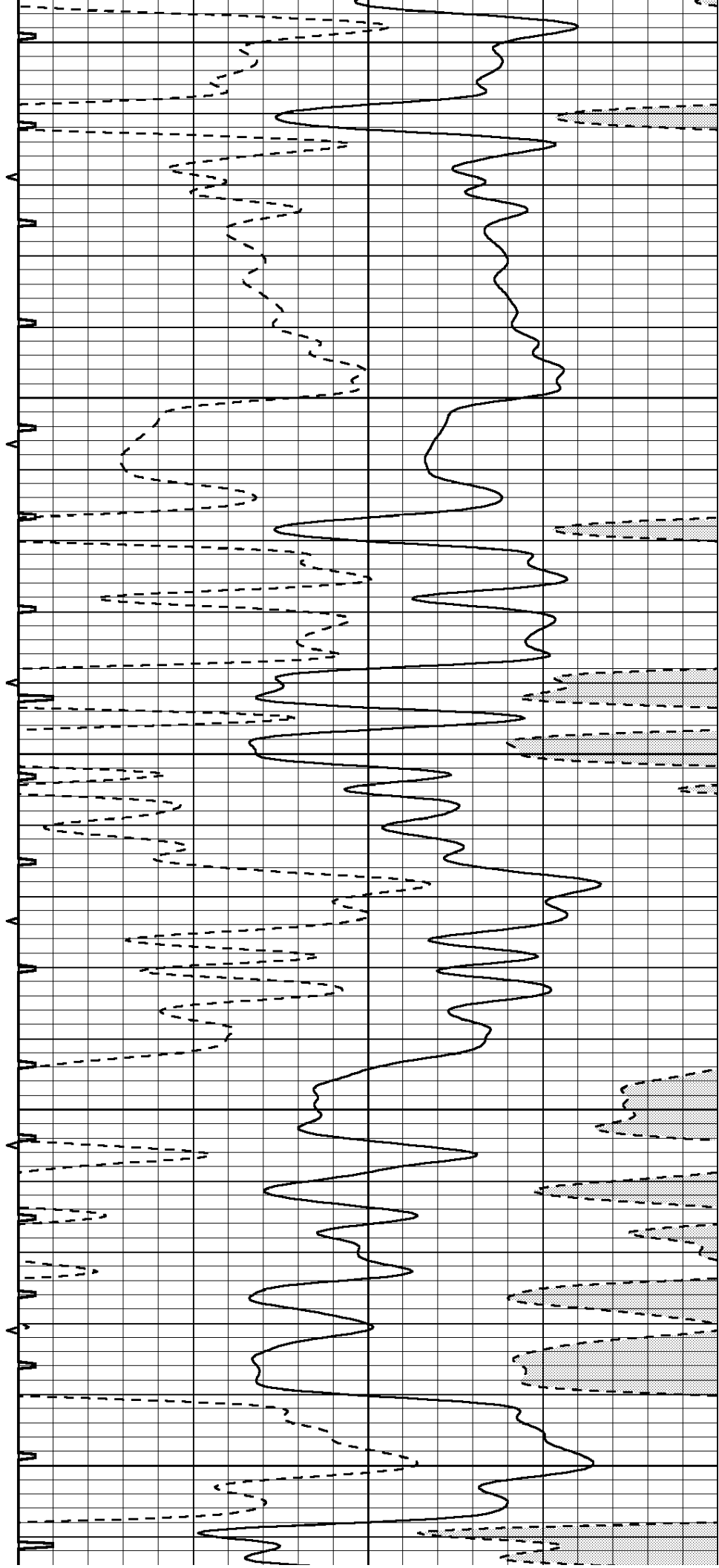
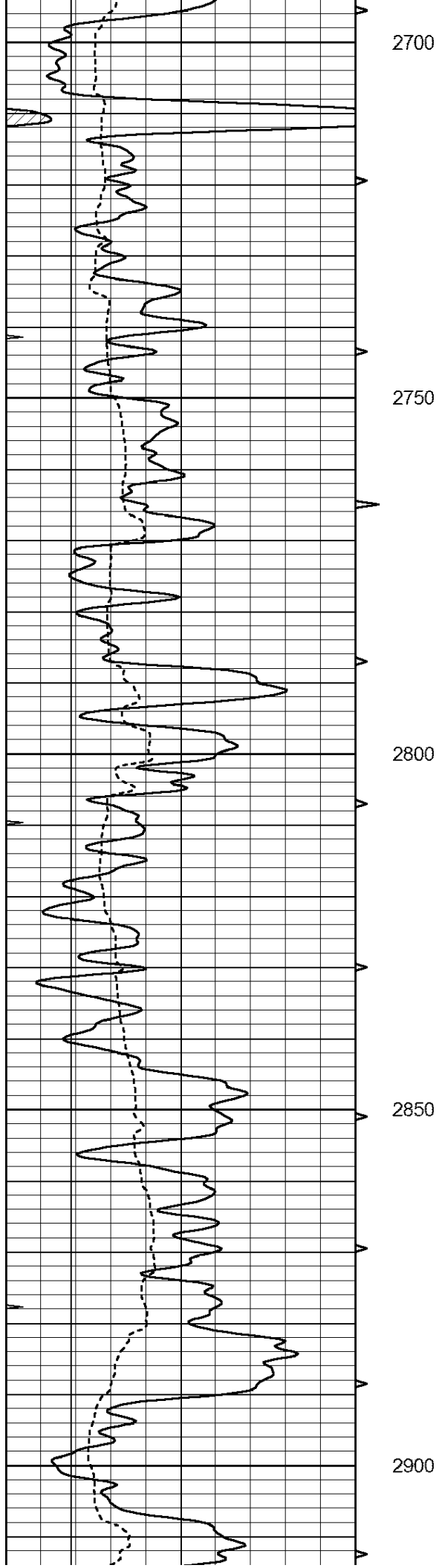
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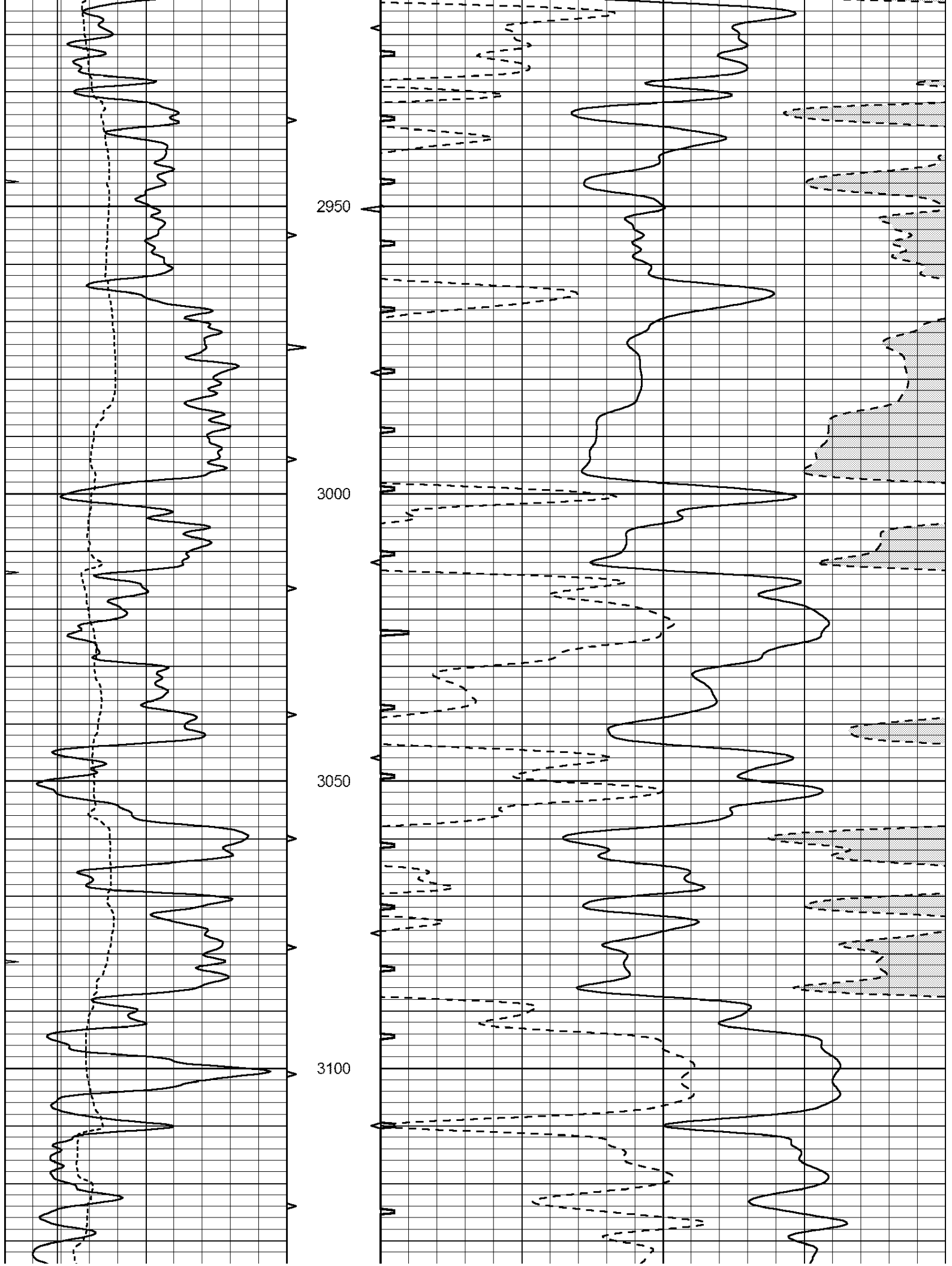
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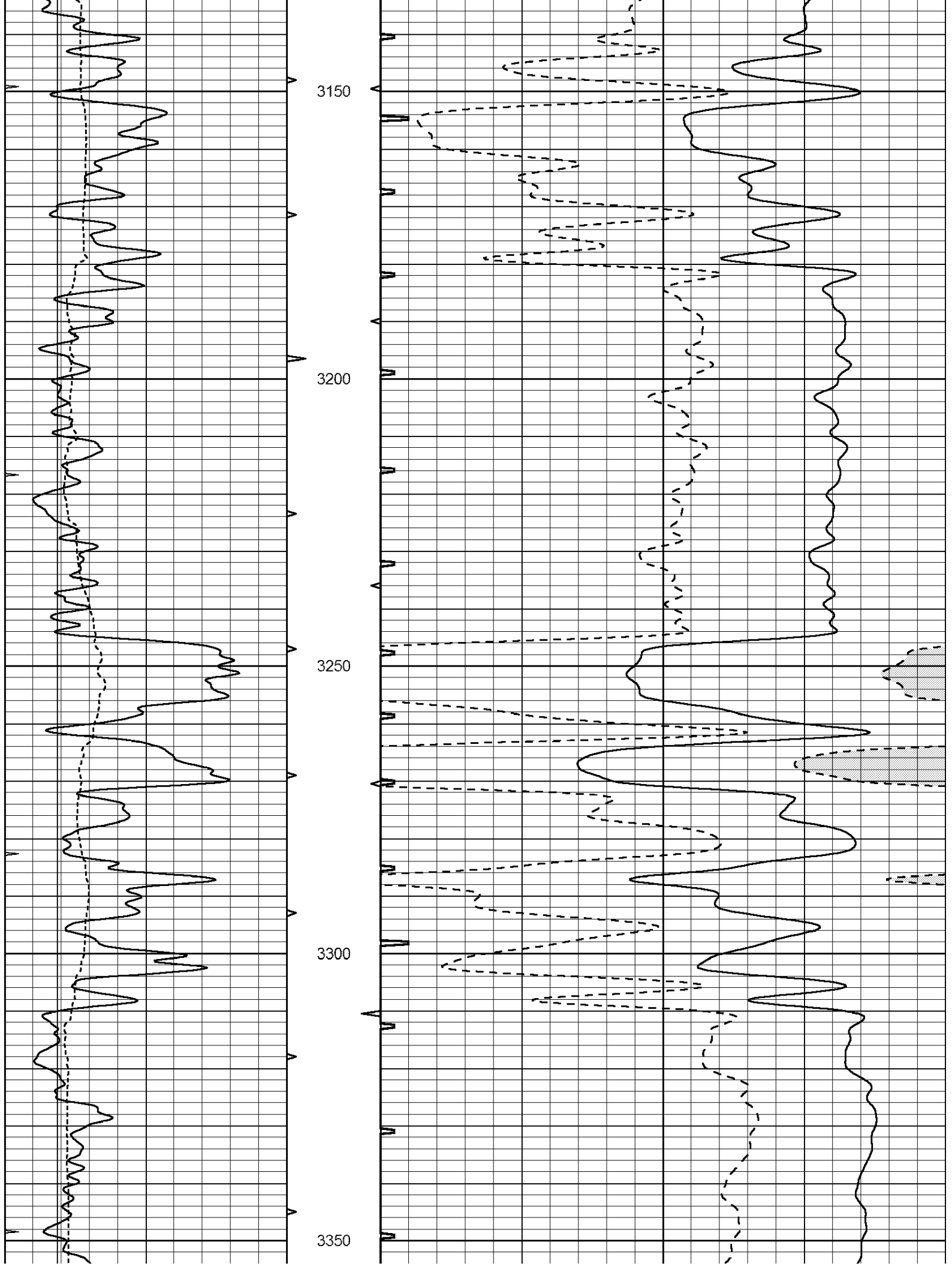
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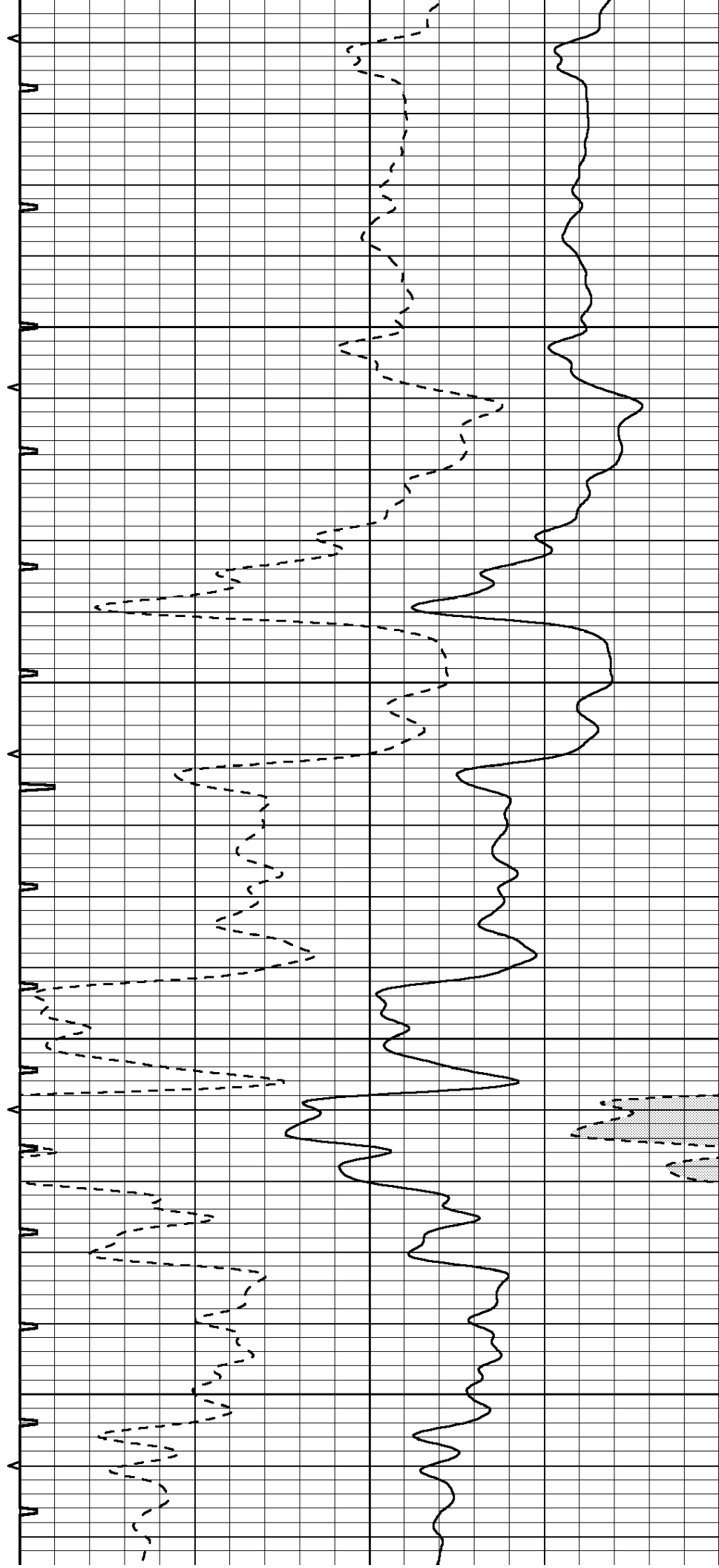
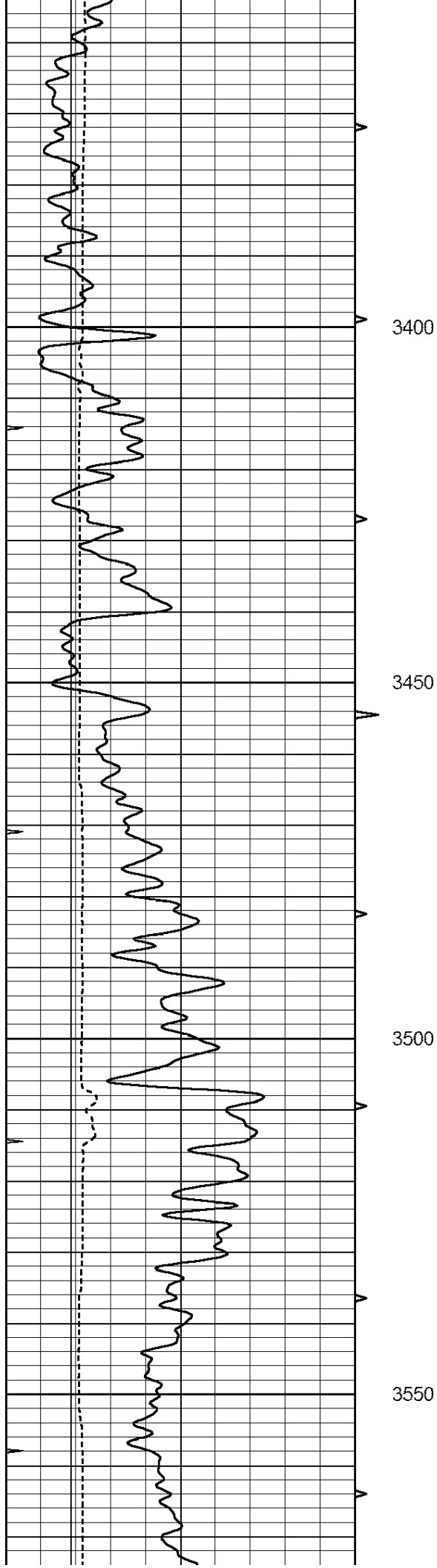
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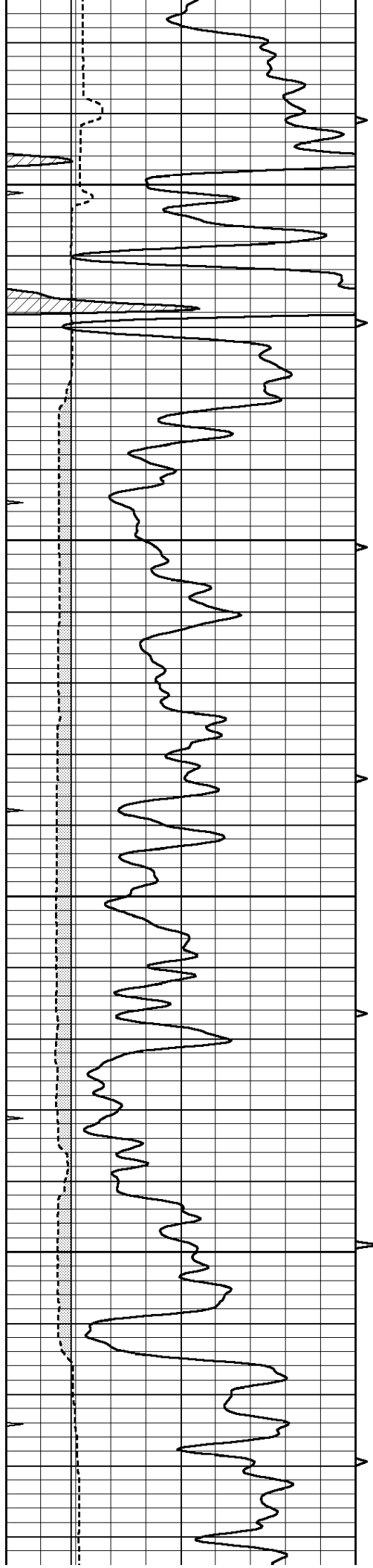










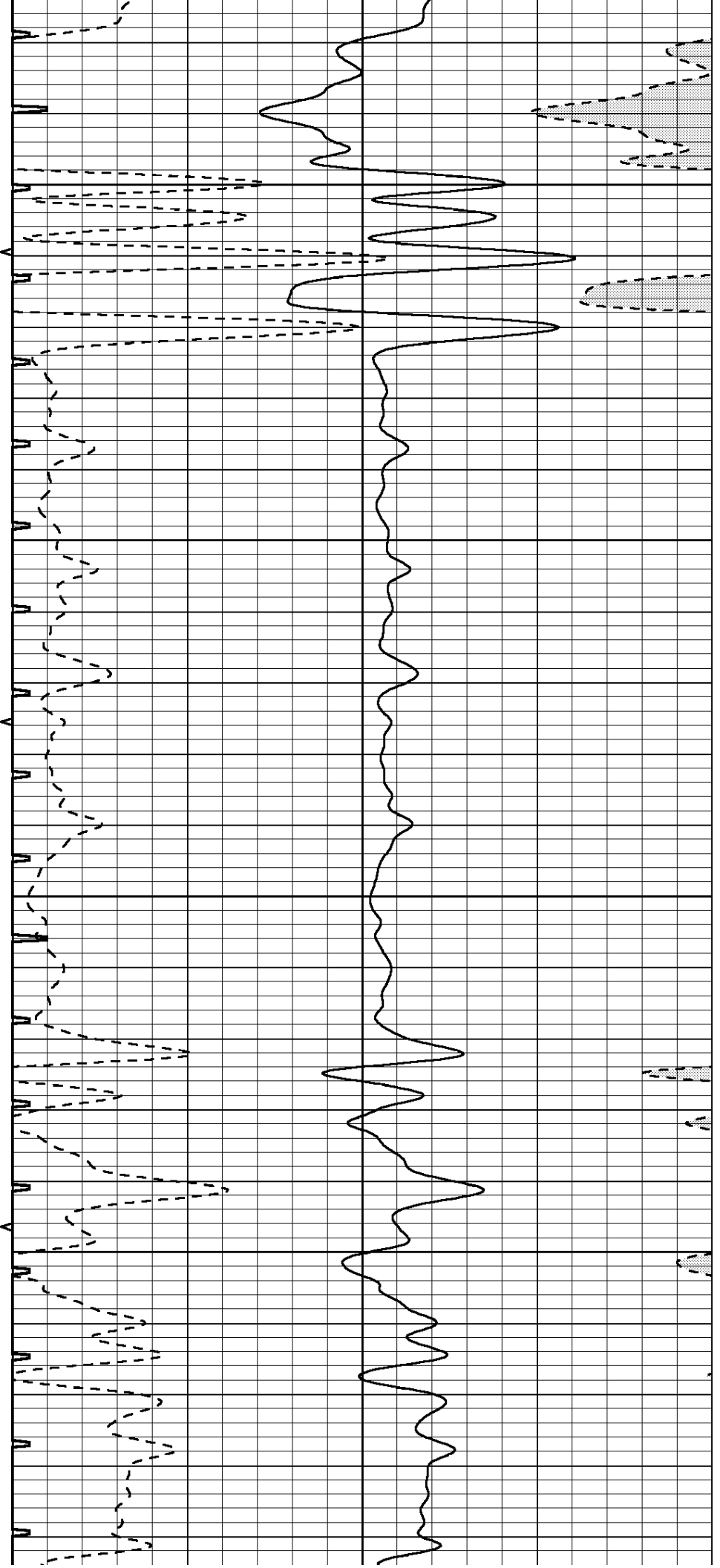


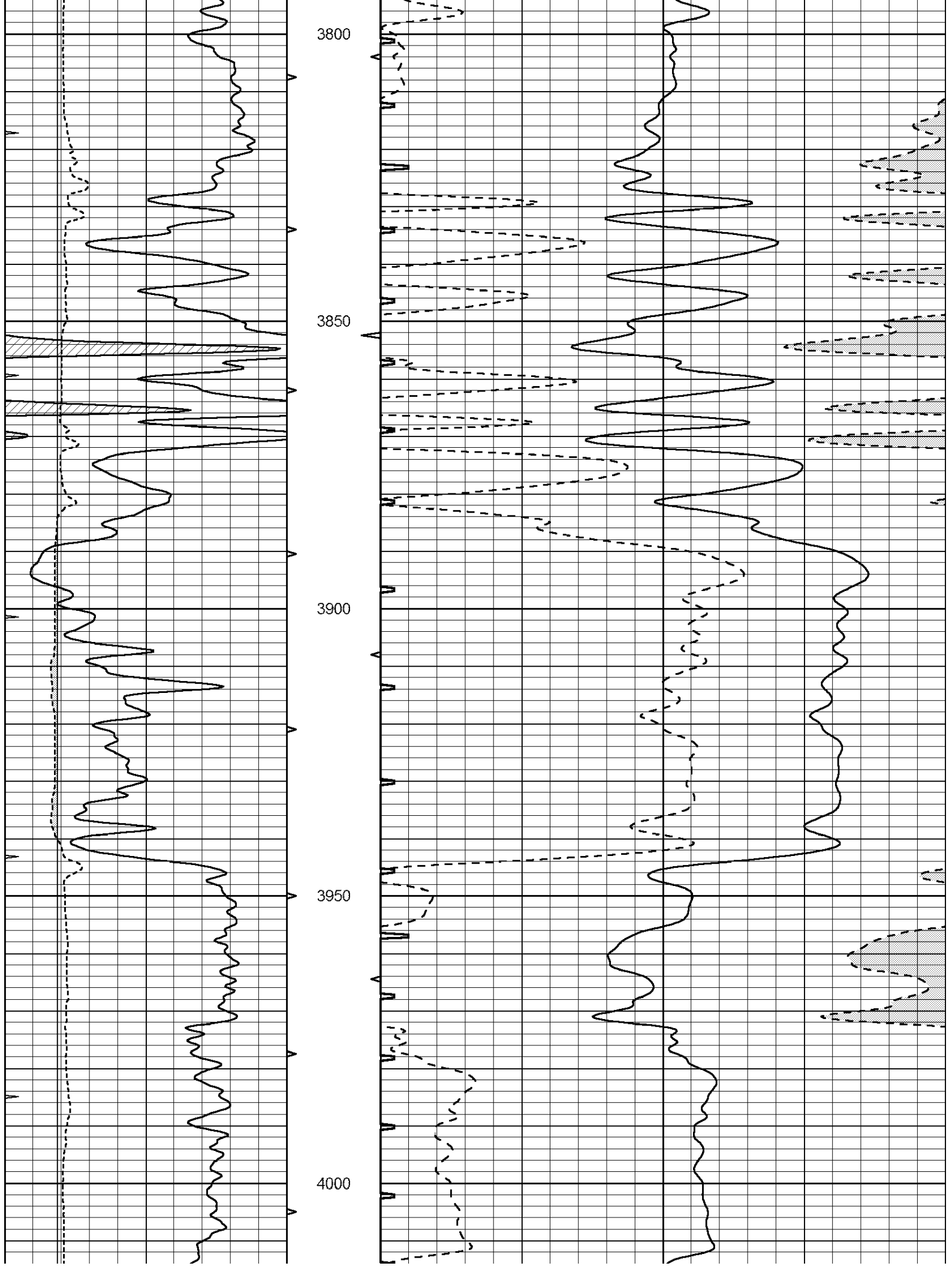
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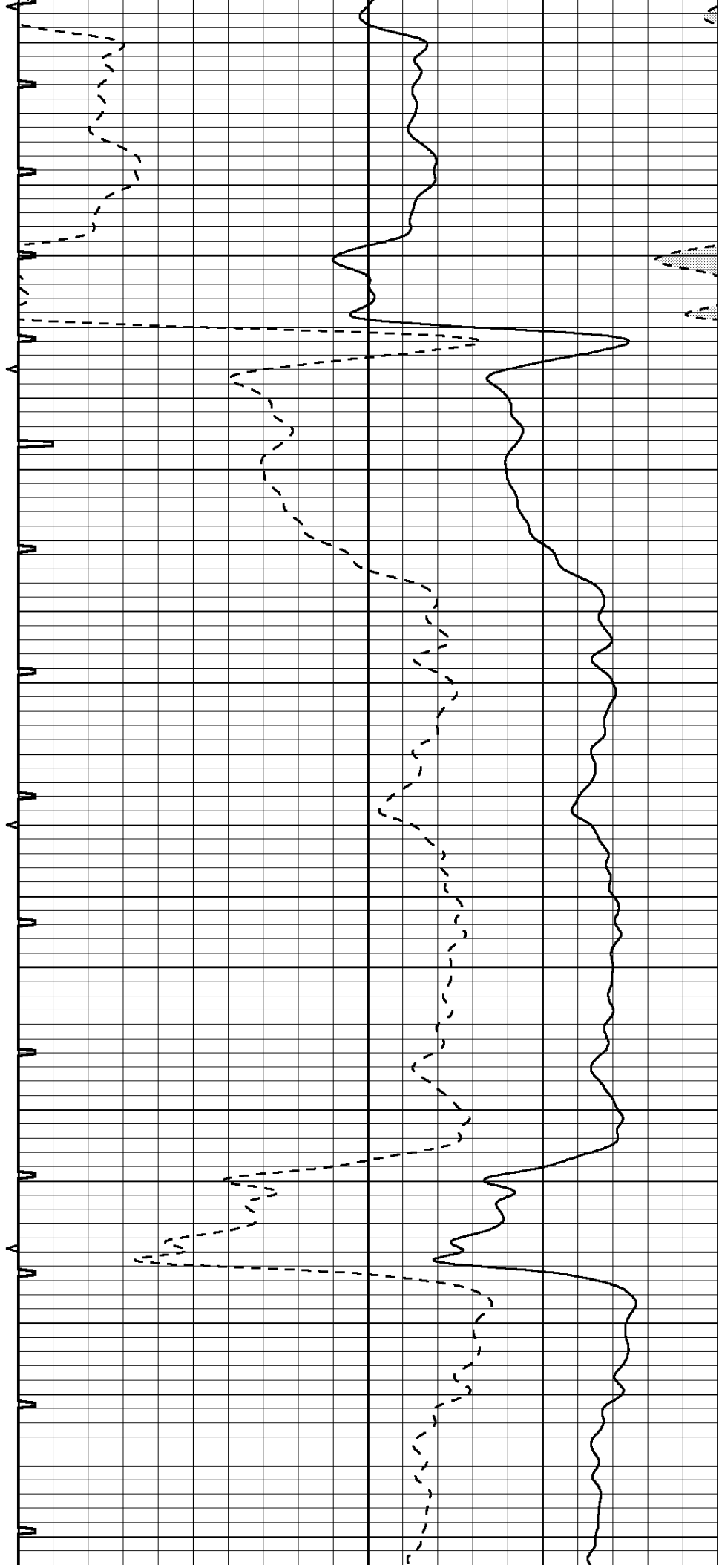
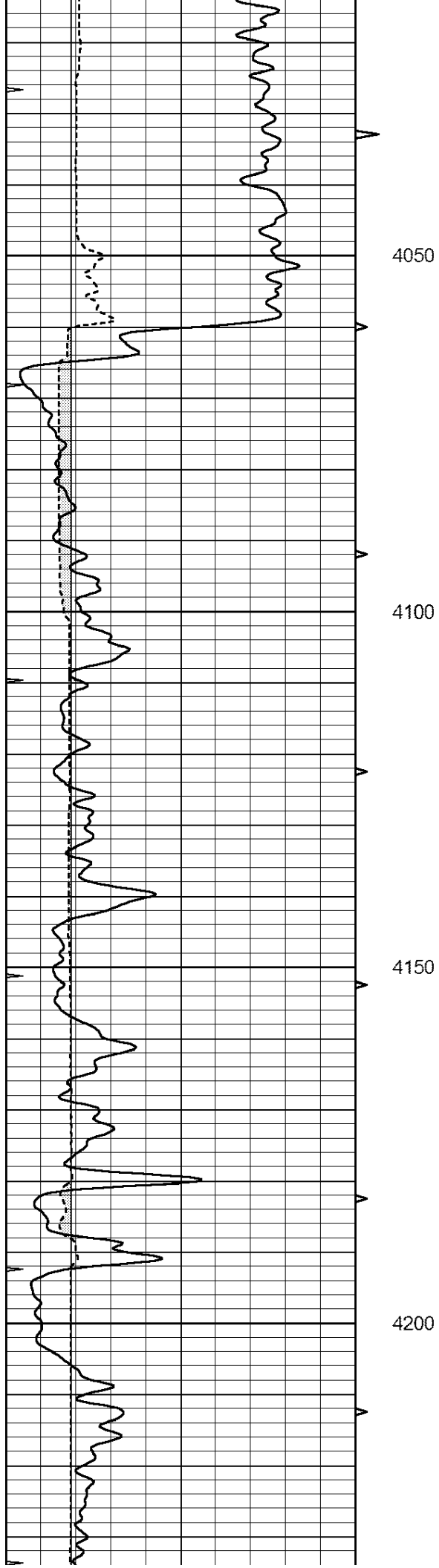
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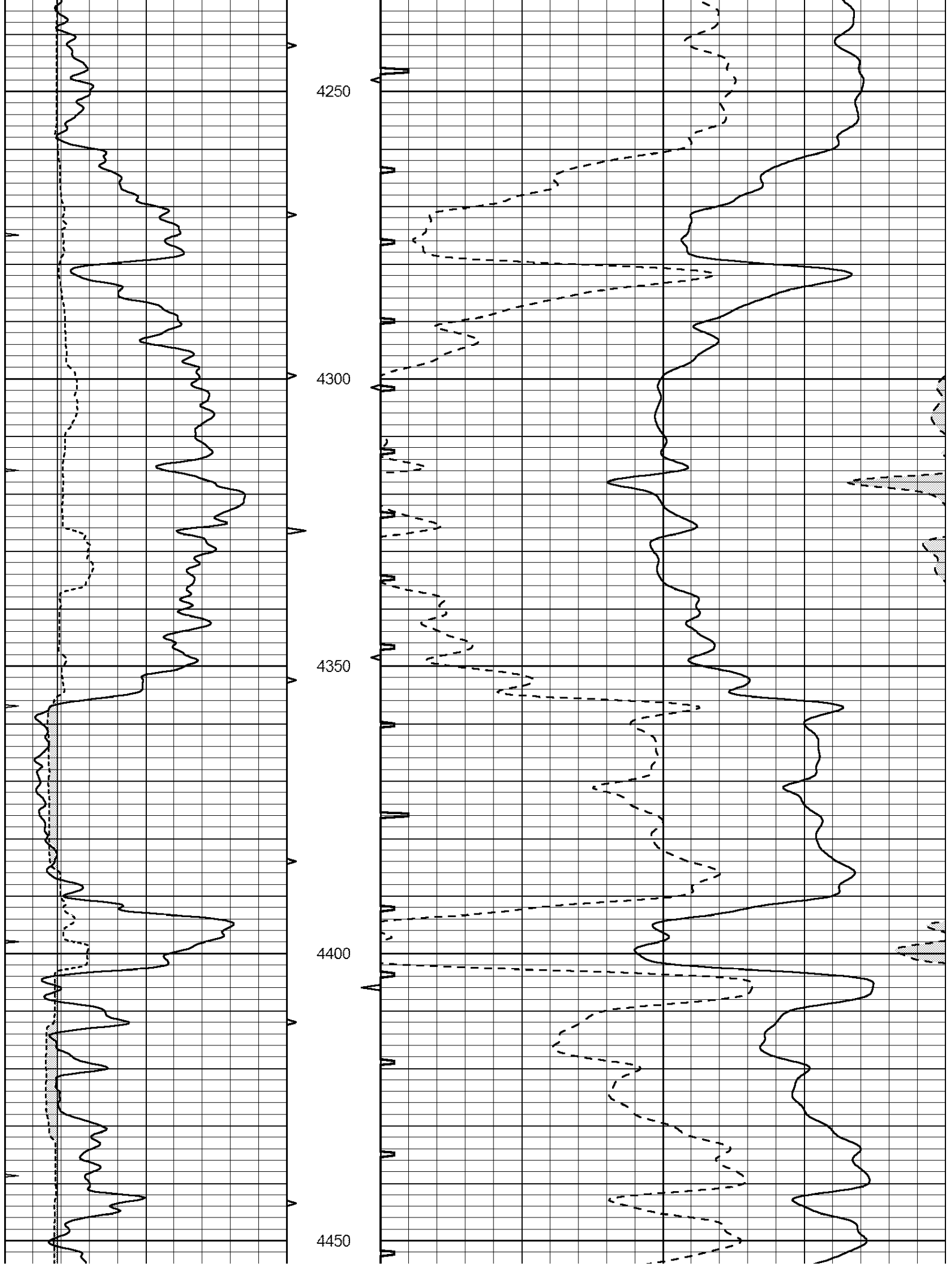
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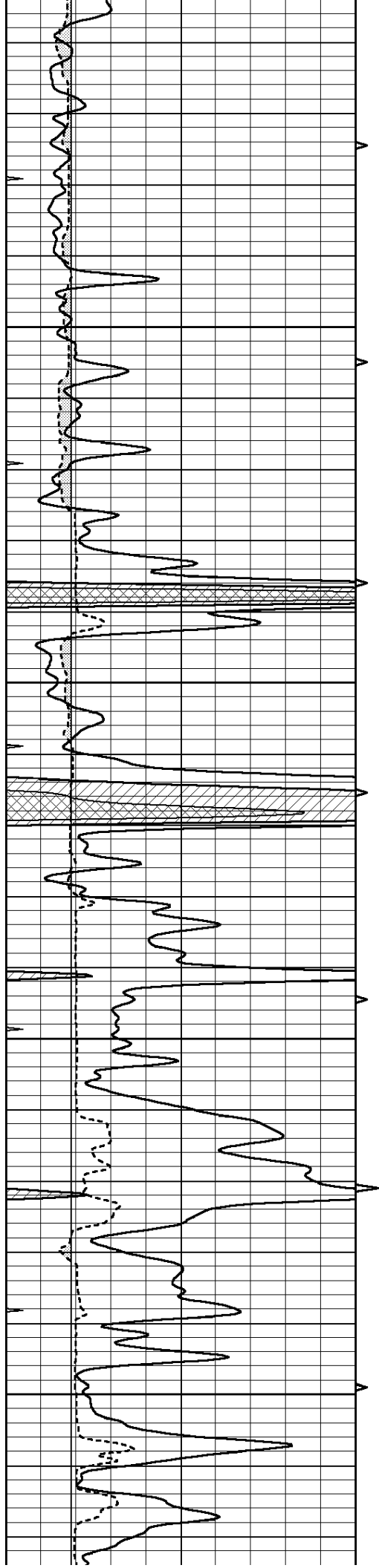
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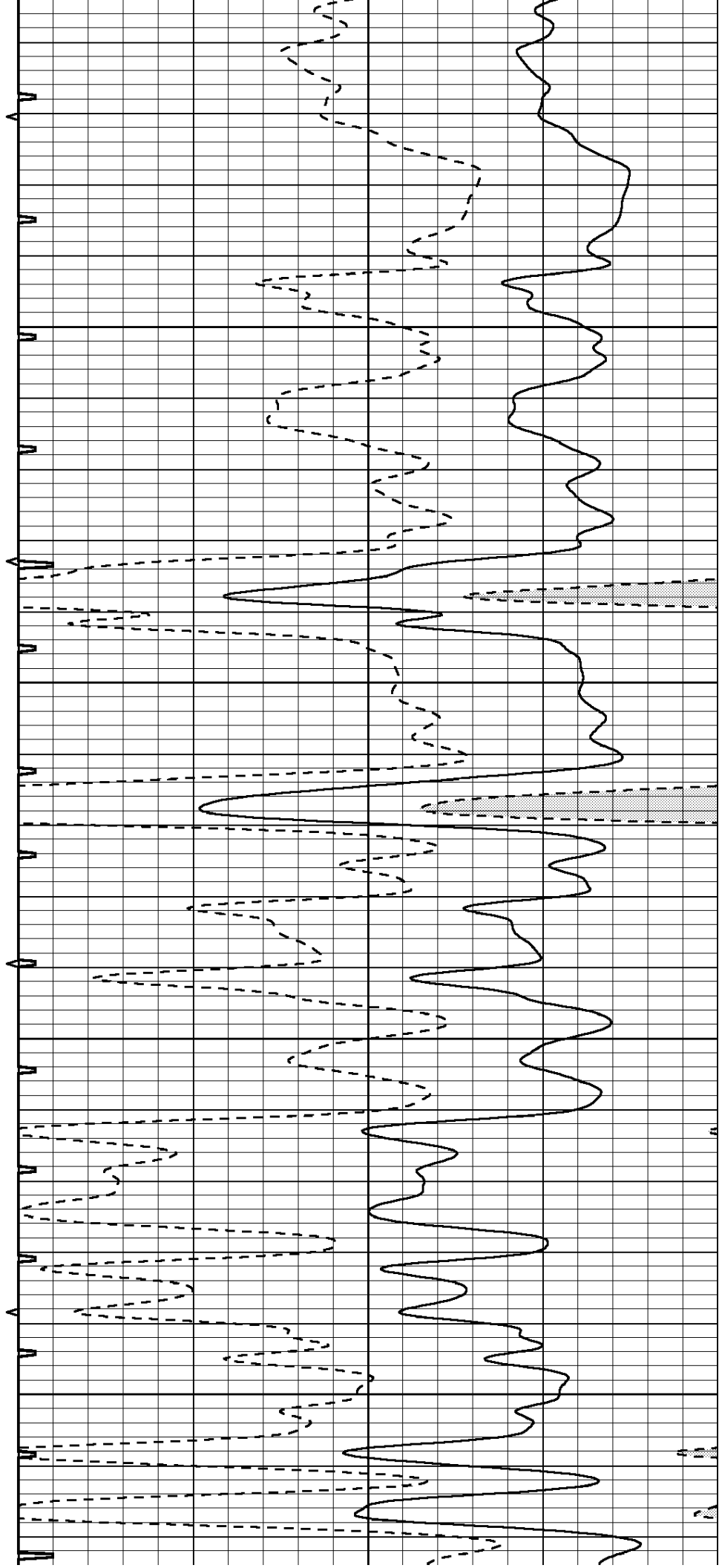


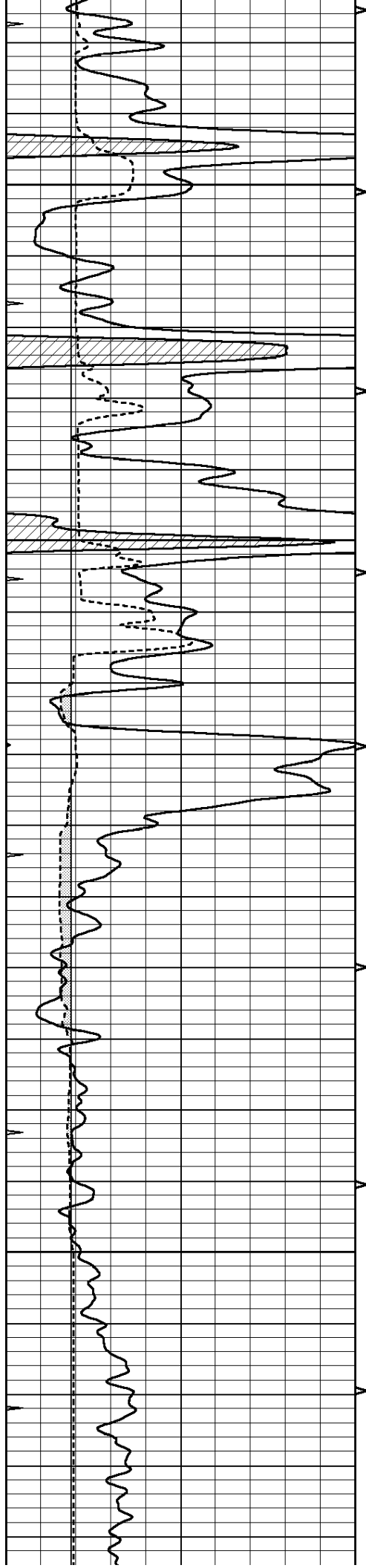
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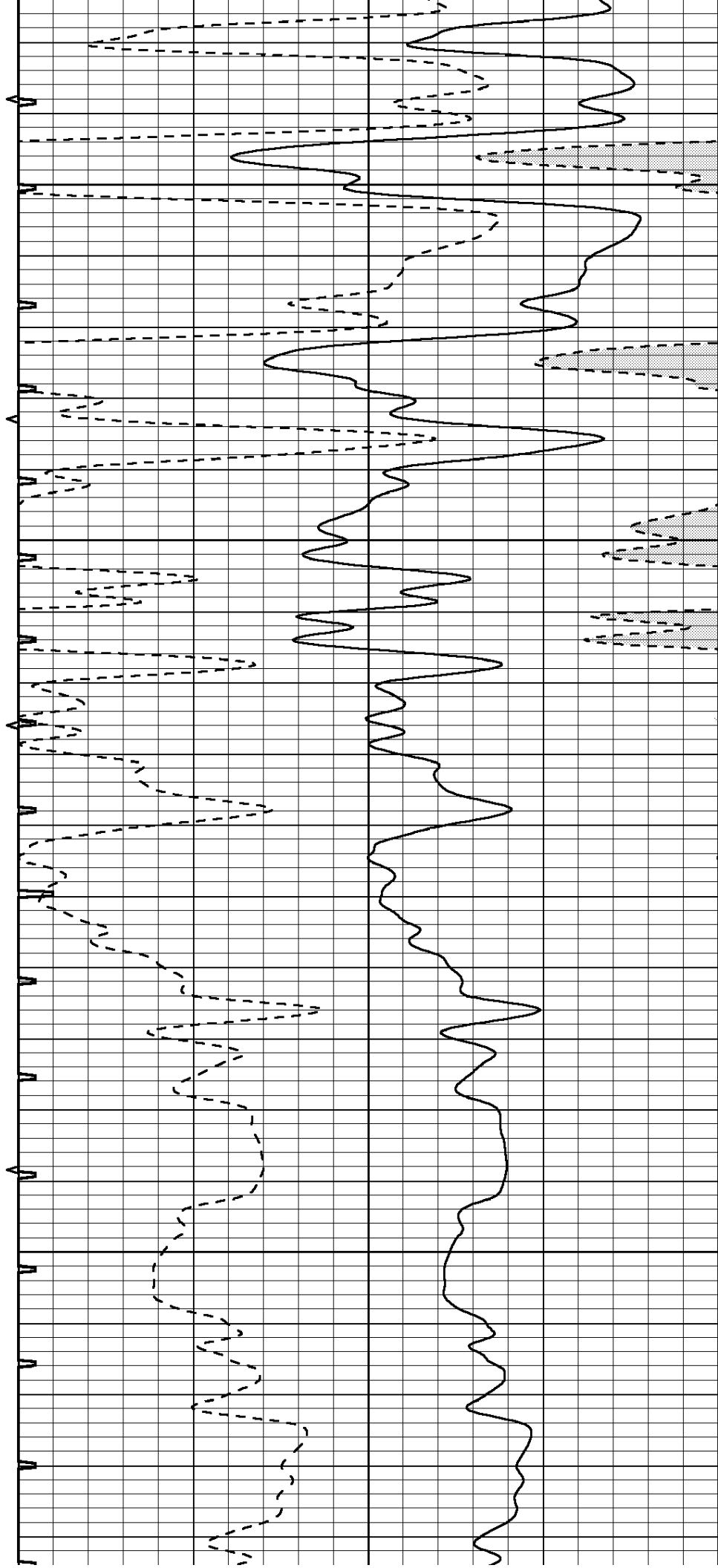


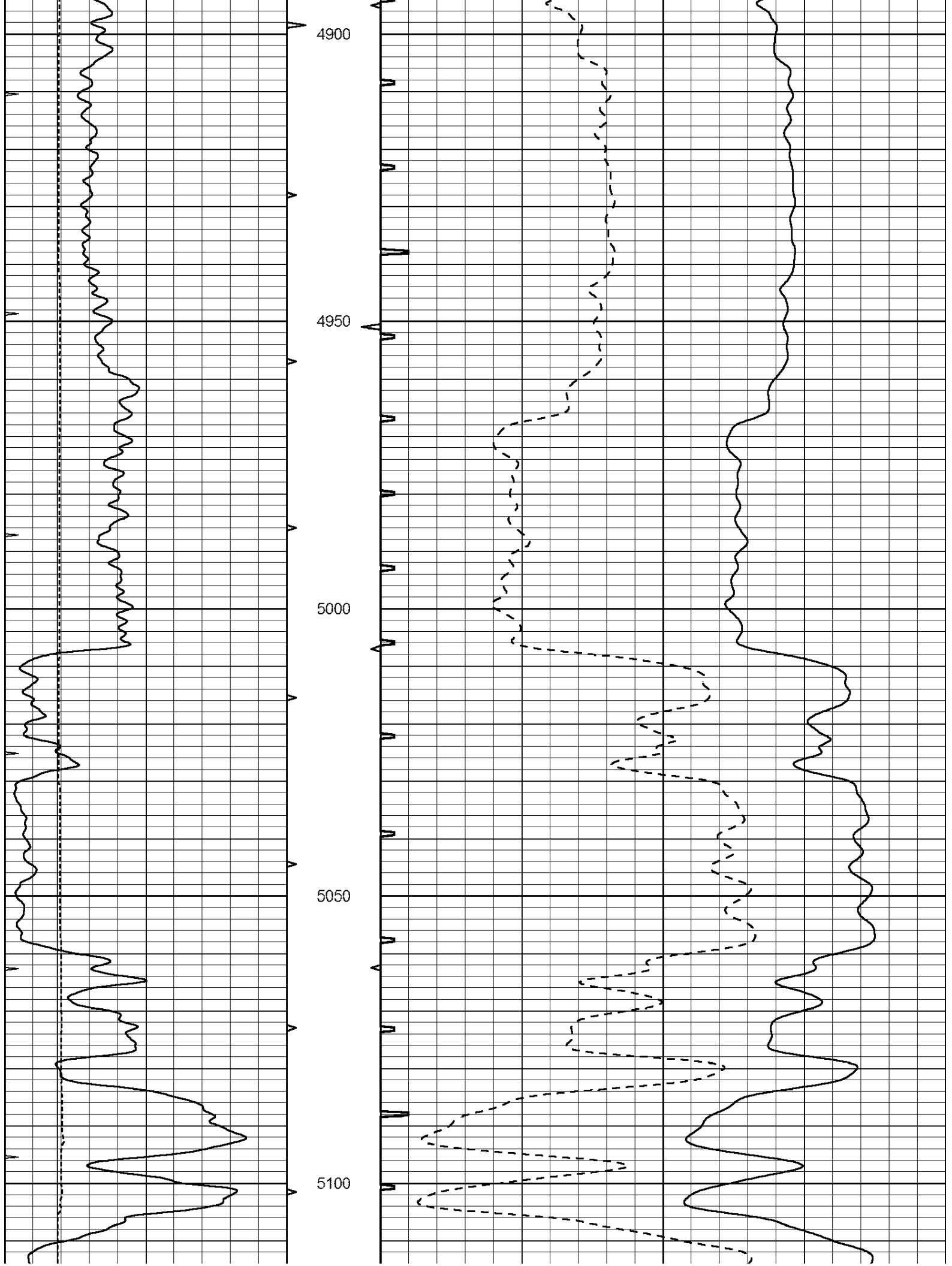
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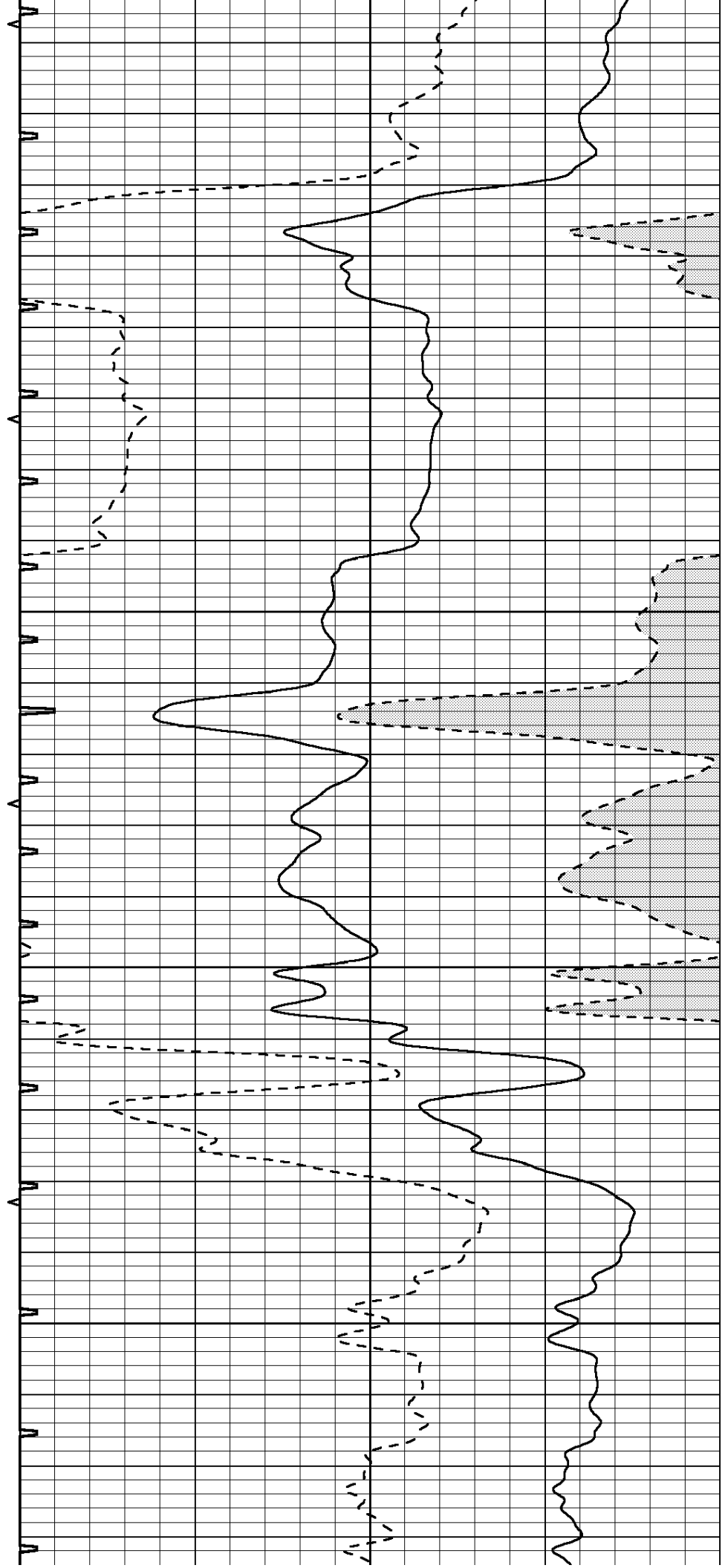
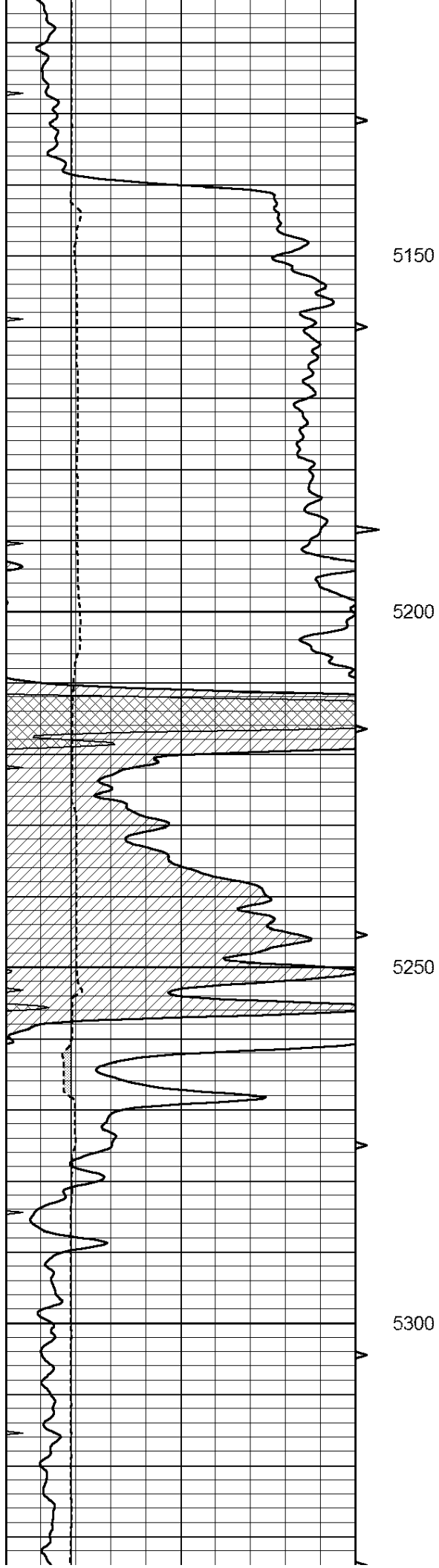
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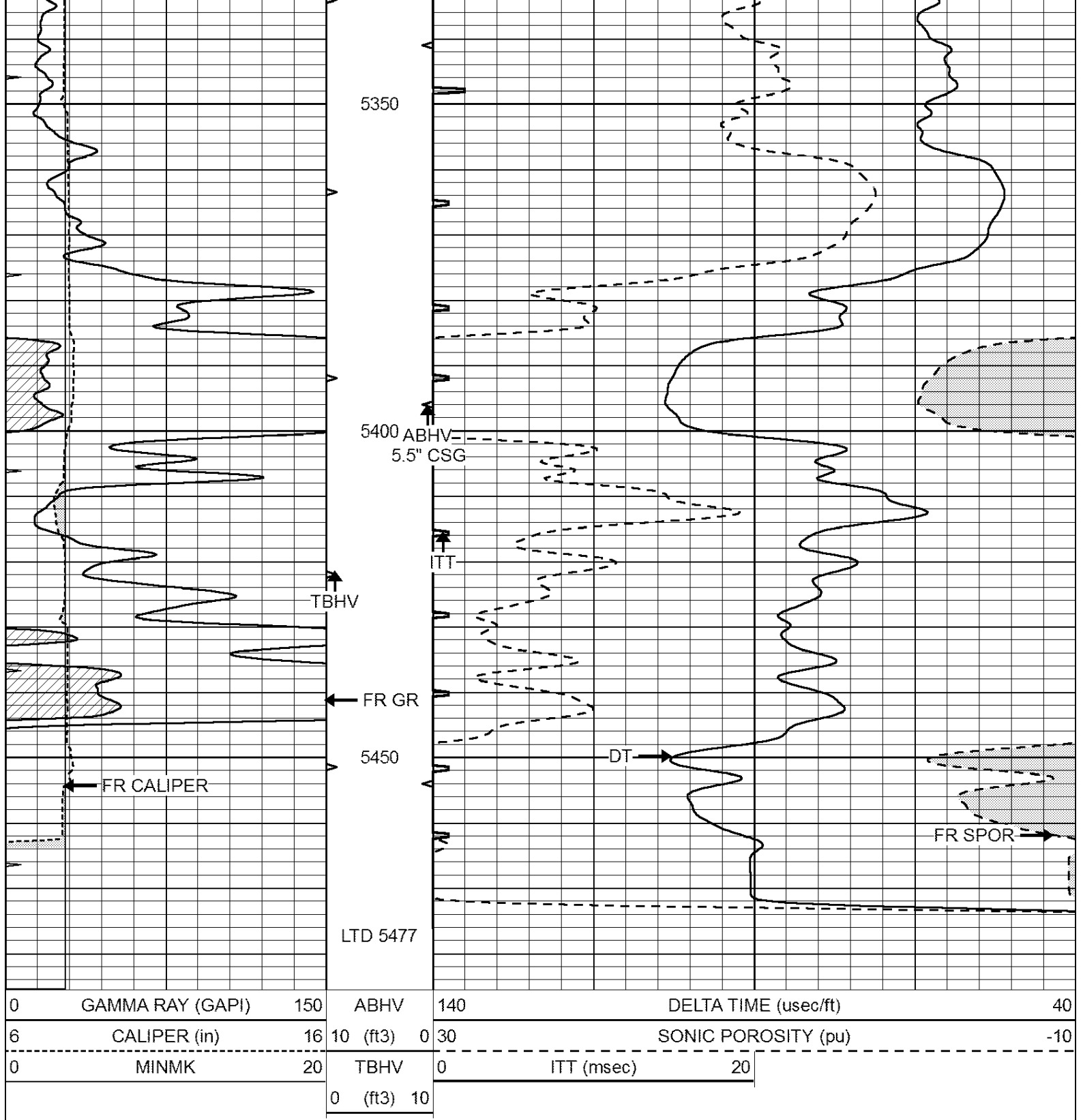
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SUPERIOR
Hays,
Kansas

REPEAT SECTION

Database File: 007453pe.db
 Dataset Pathname: pass5.1
 Presentation Format: slt
 Dataset Creation: Sat Sep 24 16:23:38 2011 by Calc Open-Cased 110302
 Charted by: Depth in Feet scaled 1:240

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

