



NABORS

**COMPLETION
& PRODUCTION
SERVICES CO.**

**SONIC
LOG**

Company		MULL DRILLING COMPANY, INC.	
Well		#1-14 McDONALD BROTHERS UNIT	
Field		PFAFF	
County		NESS	
State		KANSAS	
Location:		APL # : 15-135-25804-0000	
Permanent Datum		GROUND LEVEL	
Log Measured From		KELLY BUSHING 5' A.G.L.	
Drilling Measured From		KELLY BUSHING	
SEC 14 TWP 19S RGE 23W		Elevation 2196	
Other Services CDL/CNL/PE DIL/MEL		Elevation K.B. 2201 D.F. 2199 G.L. 2196	
Date	9/17/14		
Run Number	TWO		
Depth Driller	4400		
Depth Logger	4401		
Bottom Logged Interval	4393		
Top Log Interval	200		
Casing Driller	8 5/8"@214'		
Casing Logger	214		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 9,400 PPM	
Density / Viscosity	9.0/52		
pH / Fluid Loss	9.5/11.2		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	.650@85F		
Rmf @ Meas. Temp	.488@85F		
Rmc @ Meas. Temp	.780@85F		
Source of Rmf / Rmc	MEASUREMENT		
Rim @ BHT	.460@120F		
Time Circulation Stopped	4 HOURS		
Time Logger on Bottom	9:15 A.M.		
Maximum Recorded Temperature	120F		
Equipment Number	4854		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	KEVIN KESSLER		

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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 "NABORS" HAYS, KANSAS (785) 628-6395
DIRECTIONS
NESS CITY, KS., 4E. ON HWY 96 TO "RD. W", 4S., 2. INTO



NABORS

**COMPLETION
& PRODUCTION**

MAIN SECTION

Database File:

25882pe.db

Dataset Pathname:

pass6.4

Presentation Format:

slt

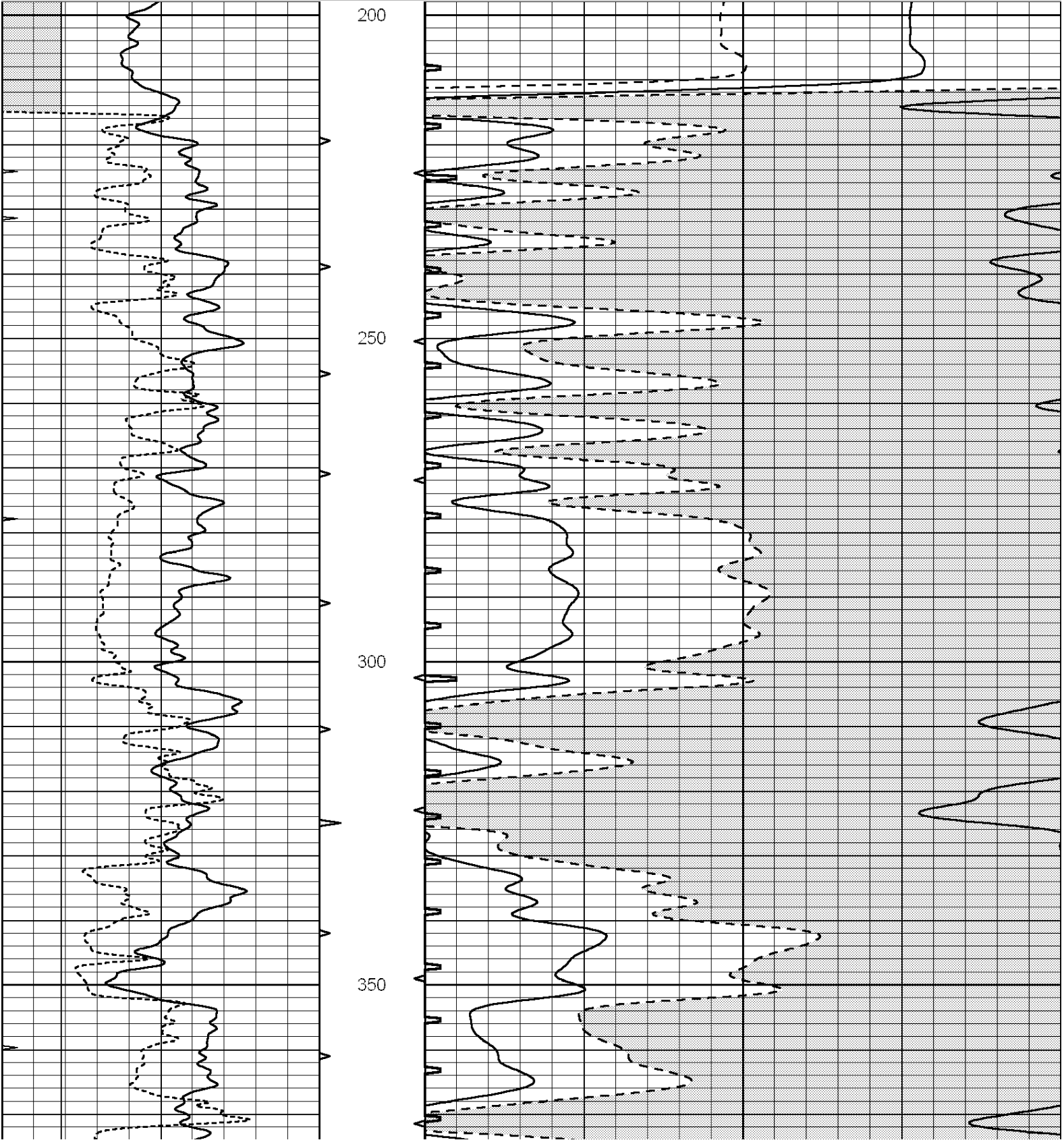
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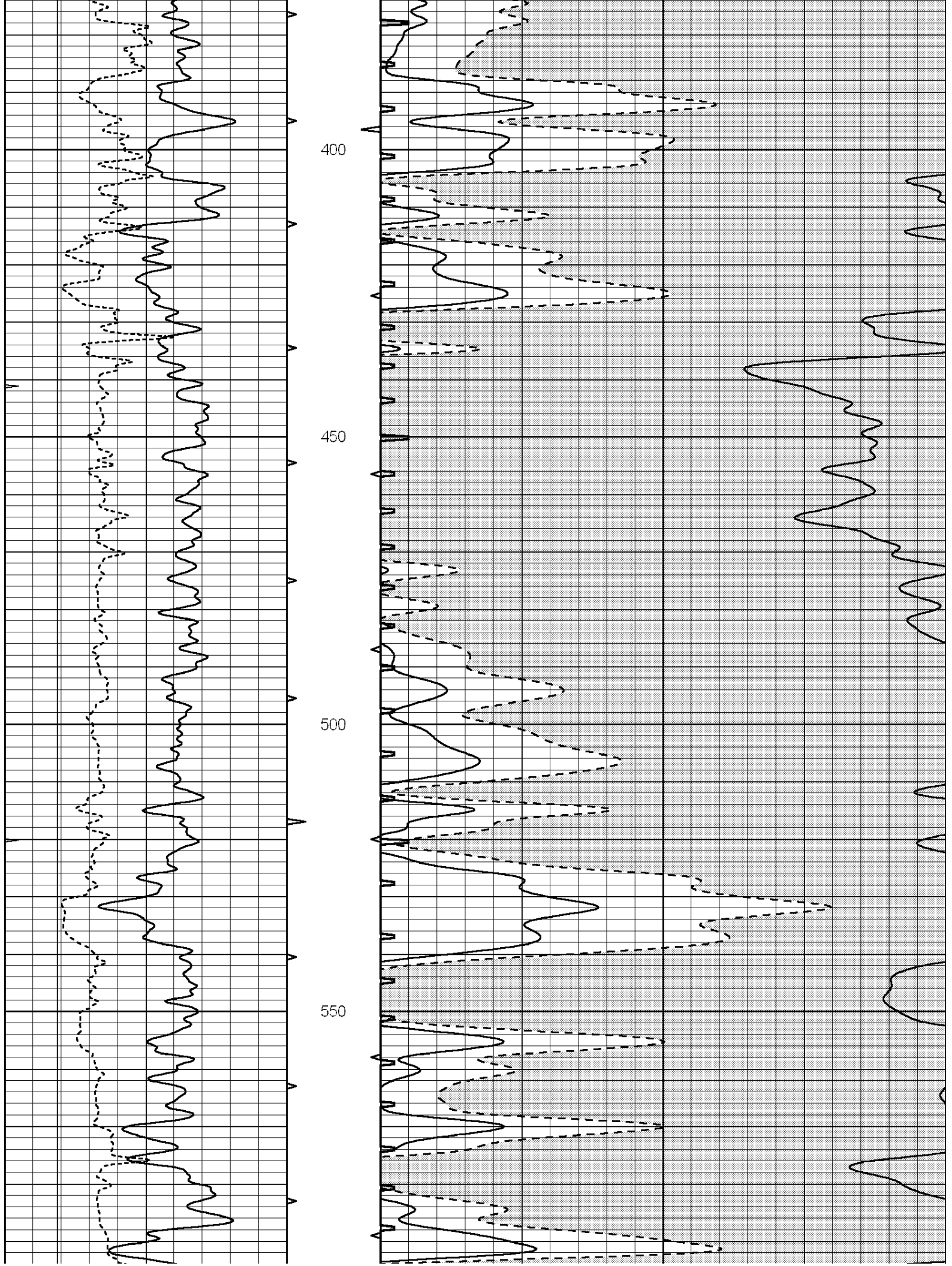
Wed Sep 17 12:46:38 2014 by Calc SOC 120430

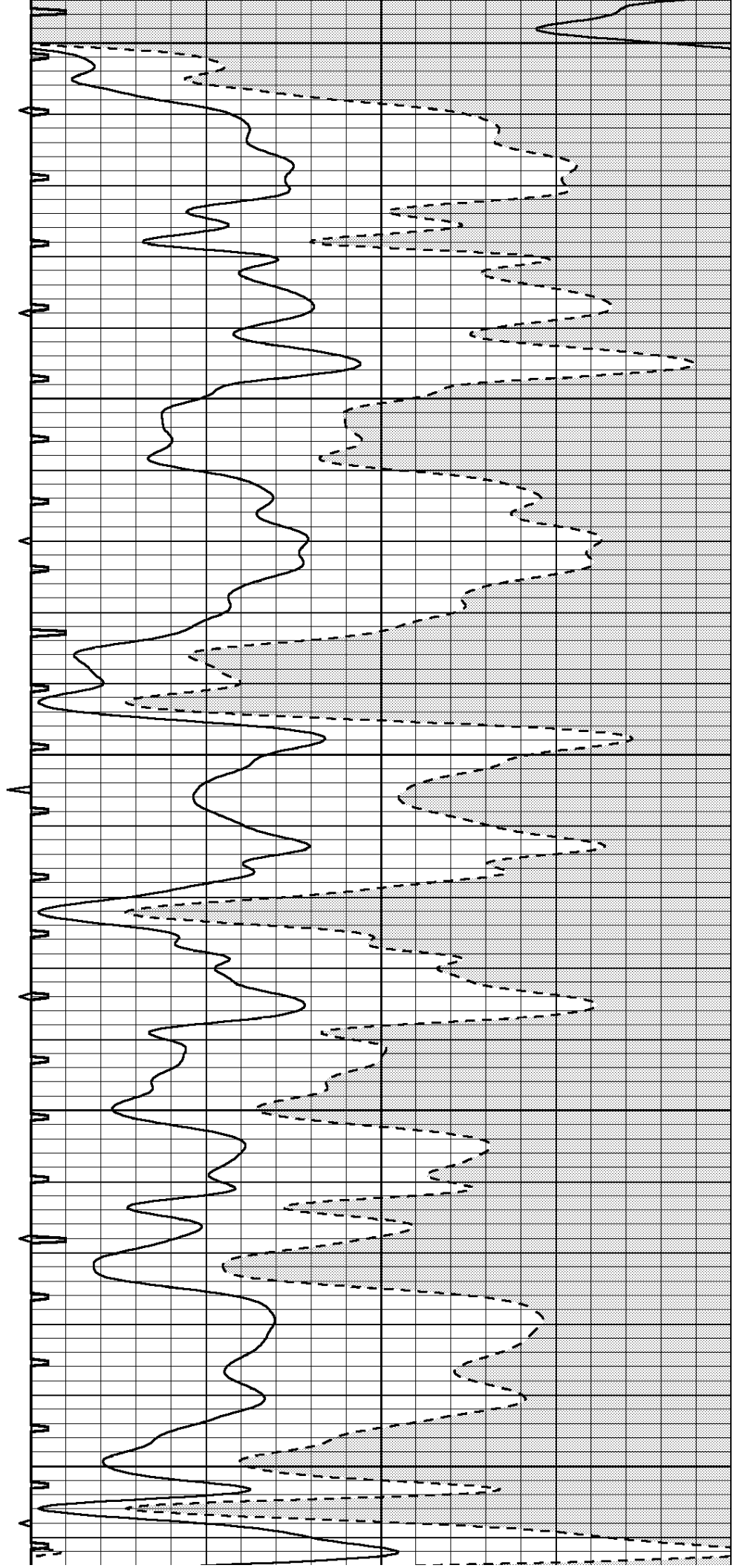
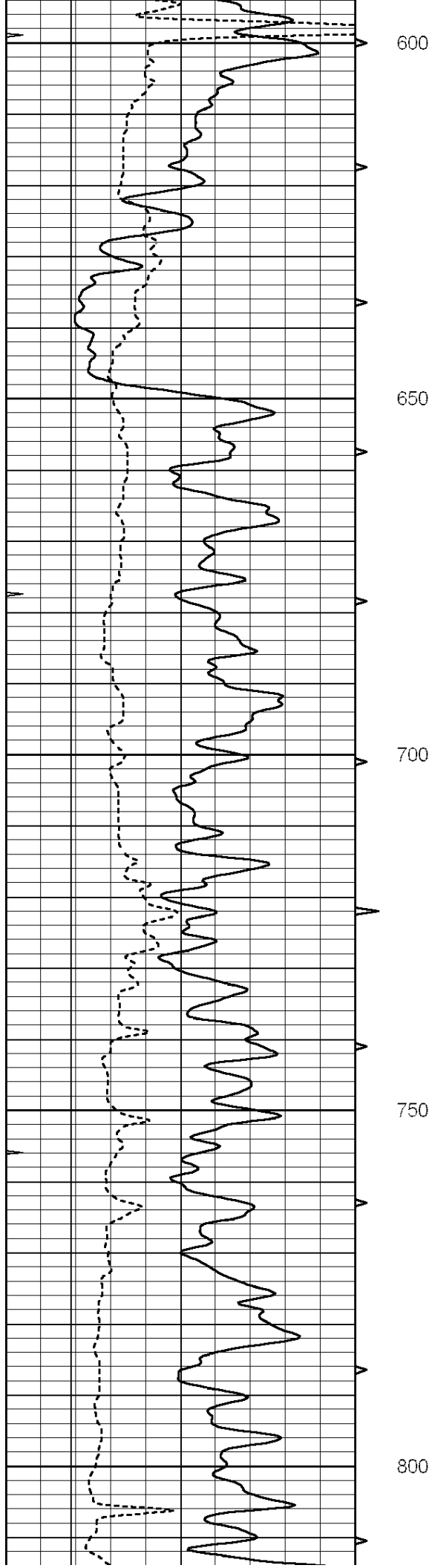
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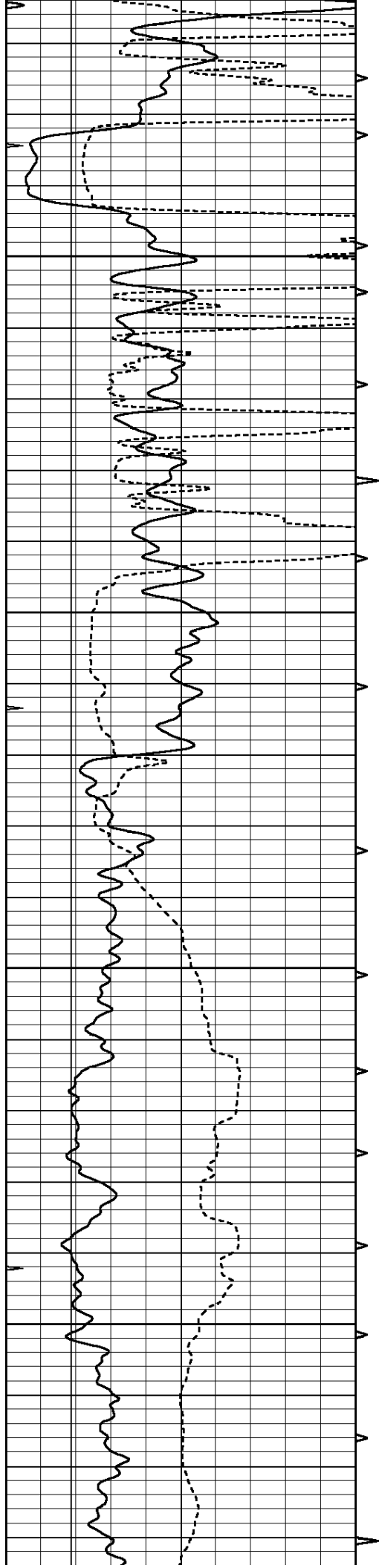
Depth in Feet scaled 1:240

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







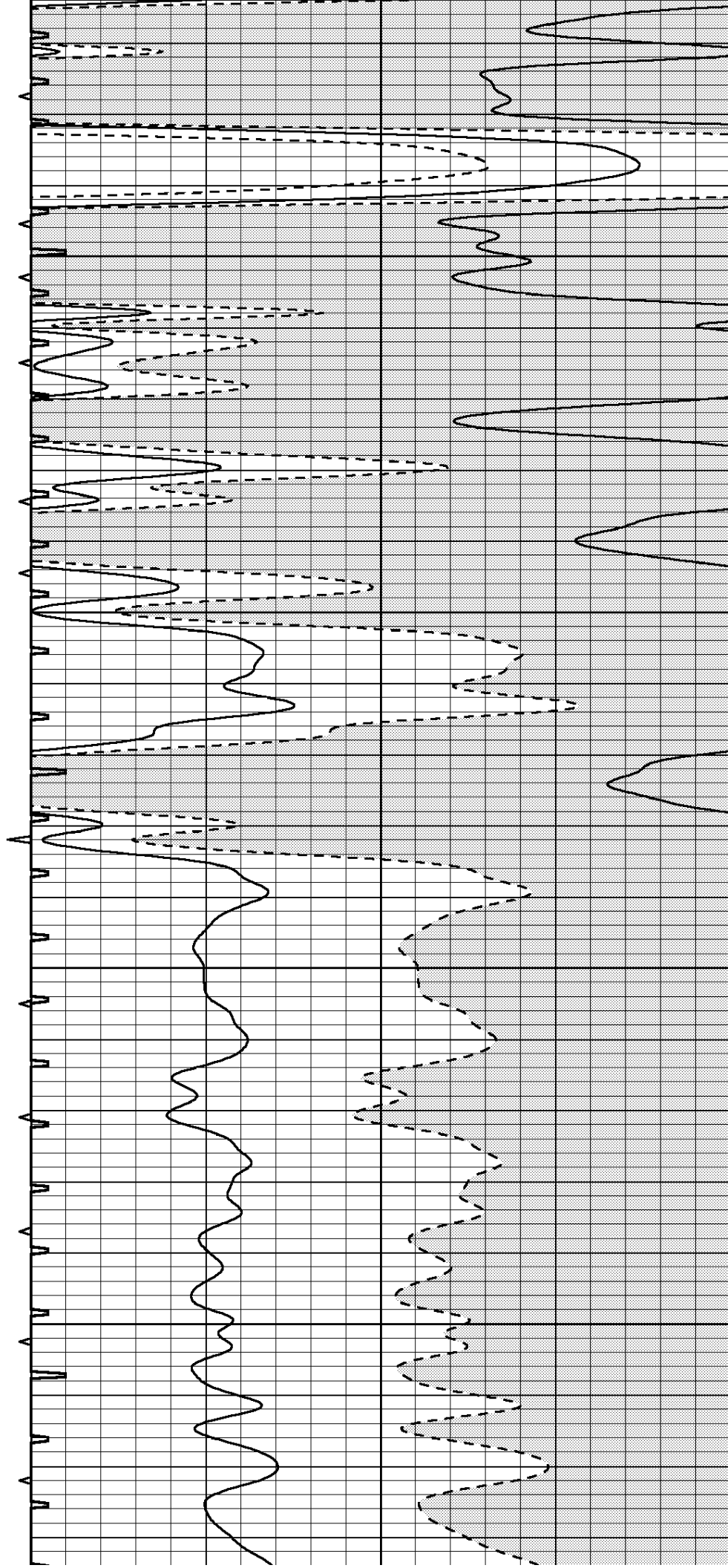


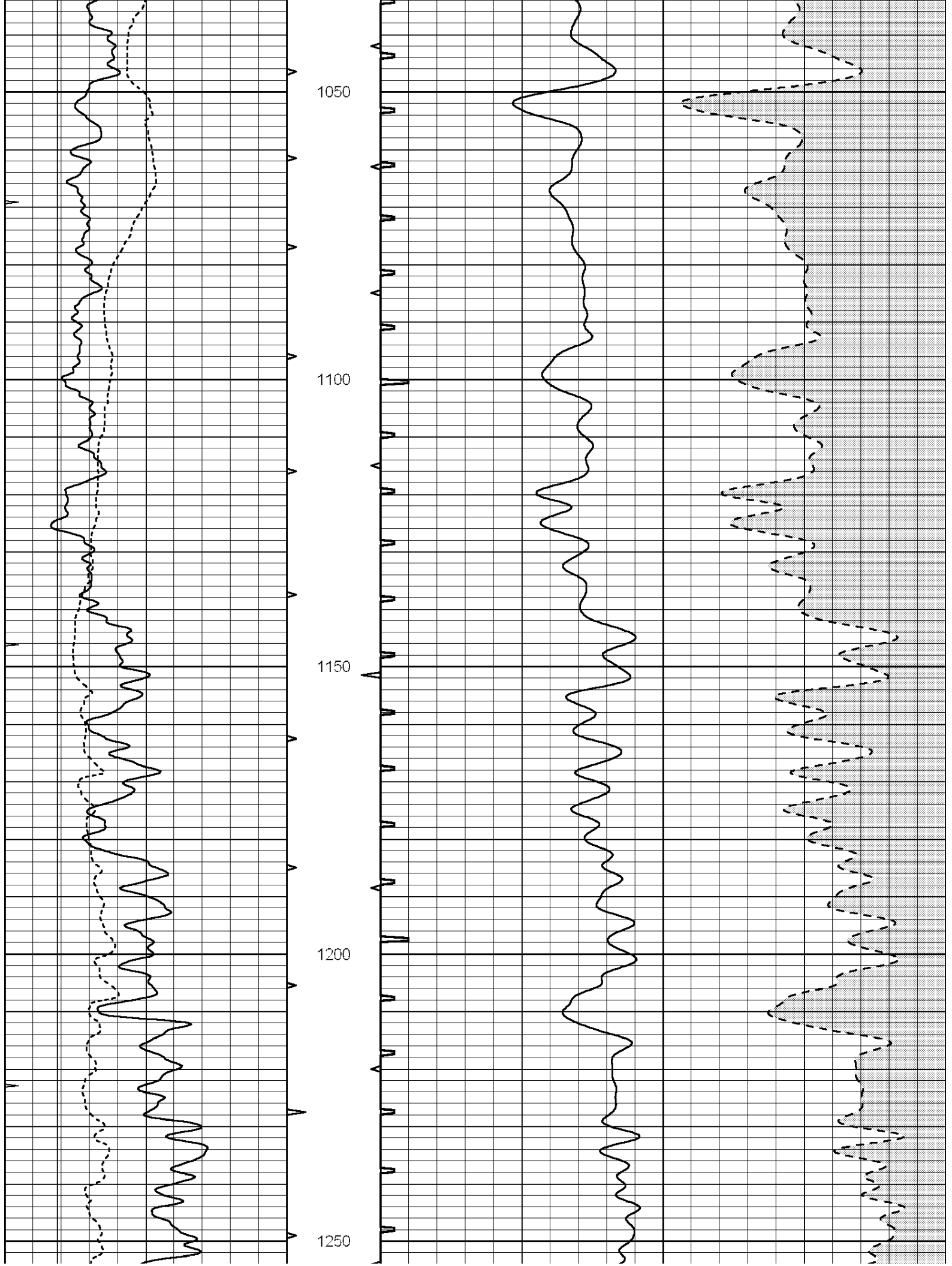
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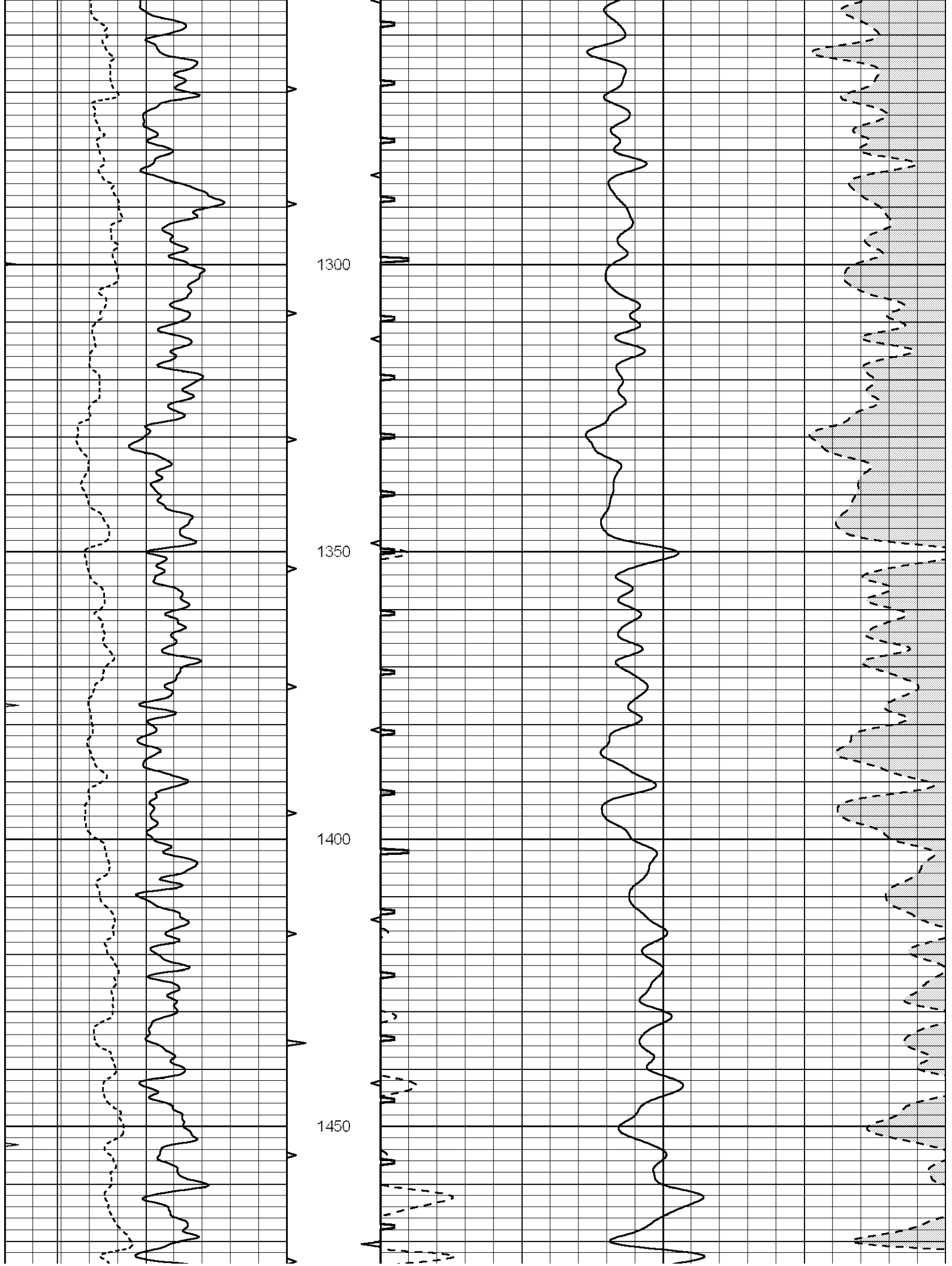
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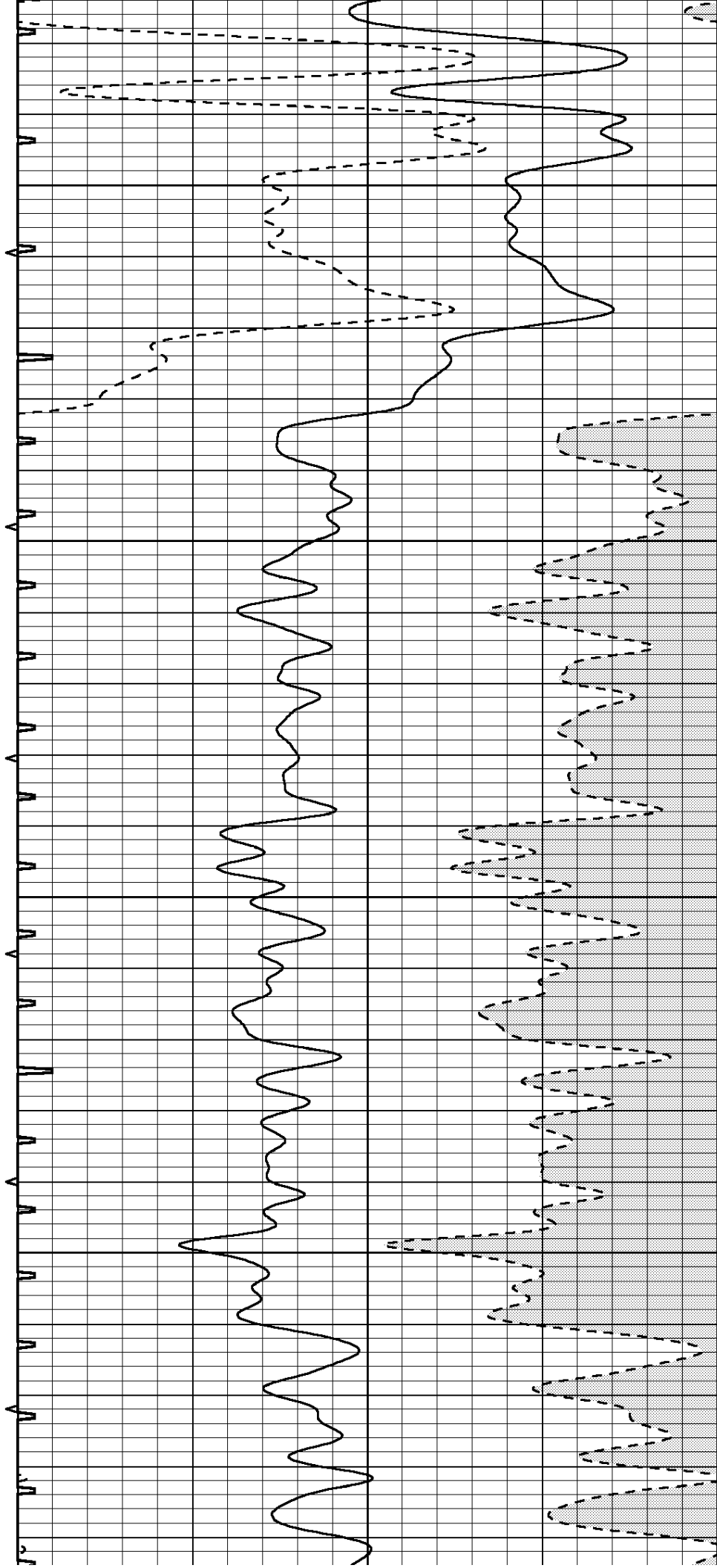
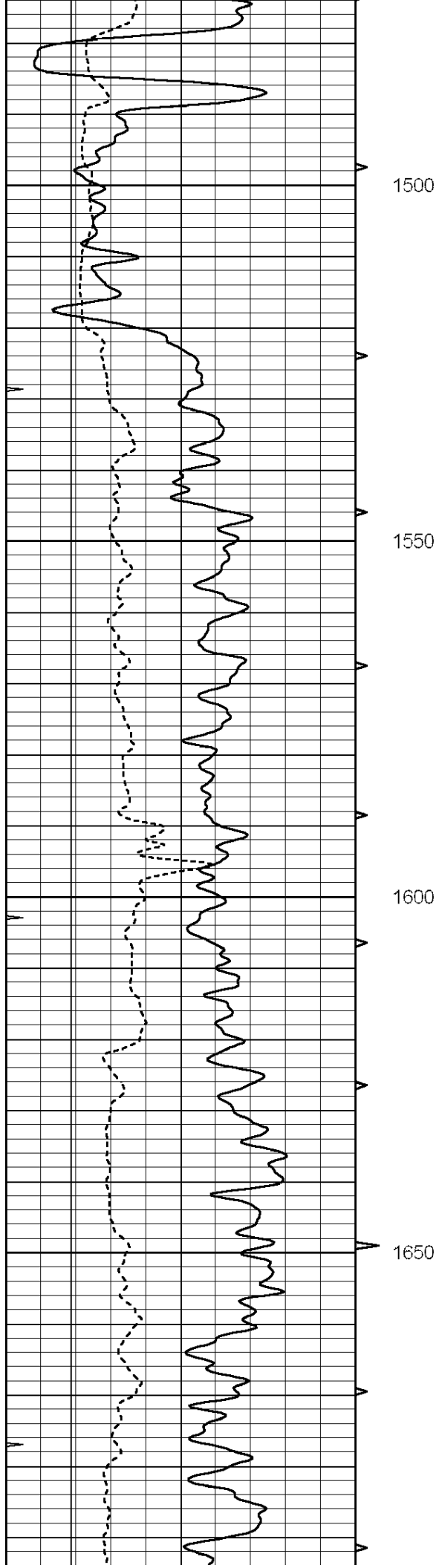
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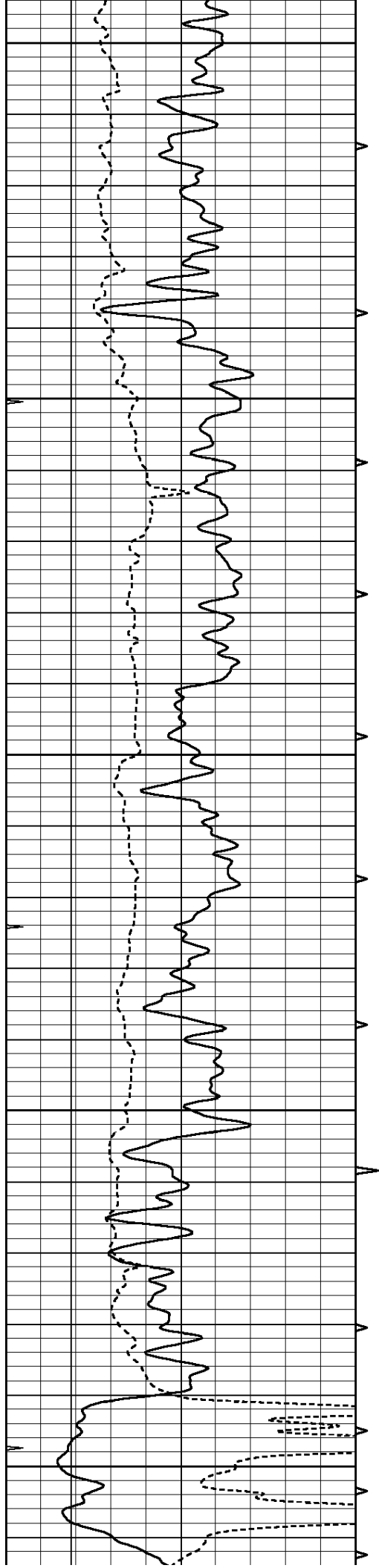
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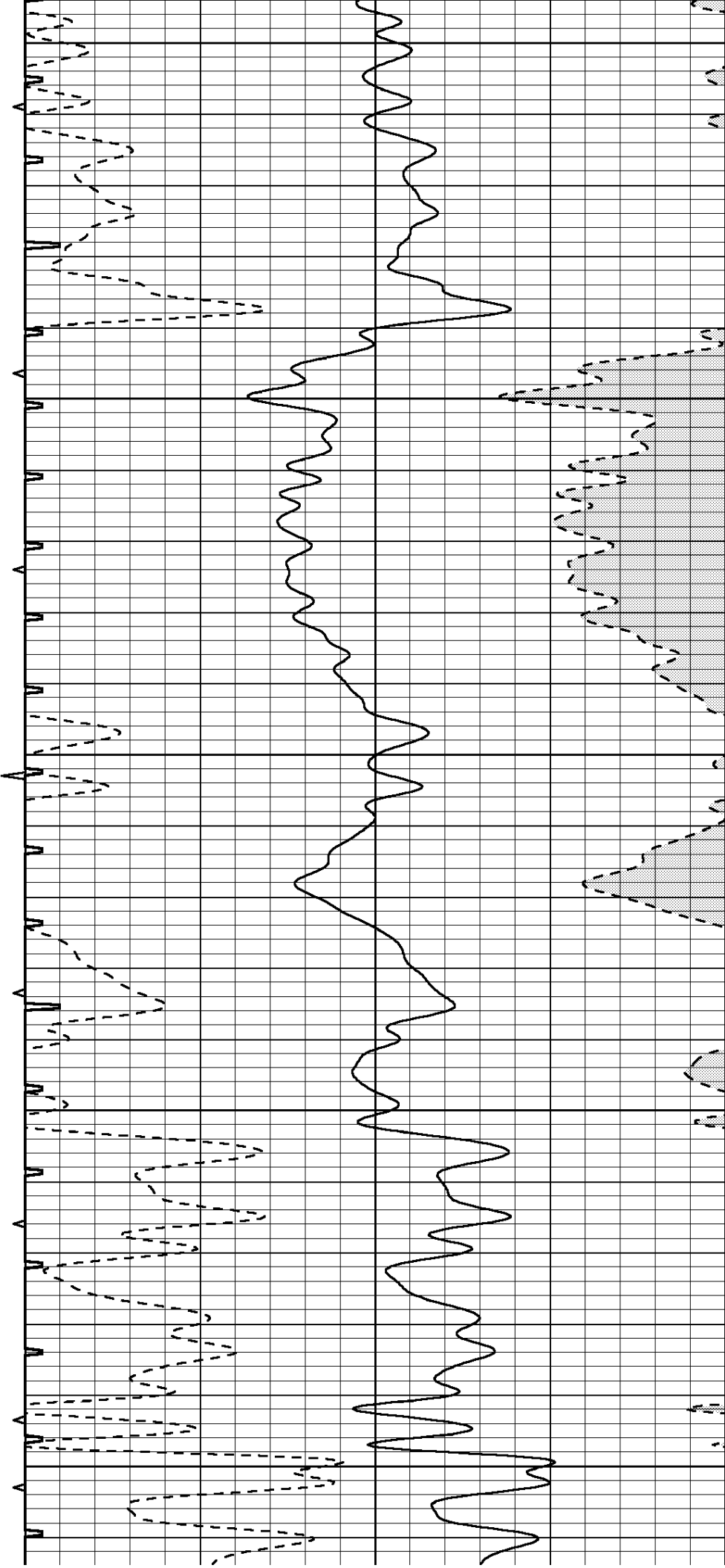
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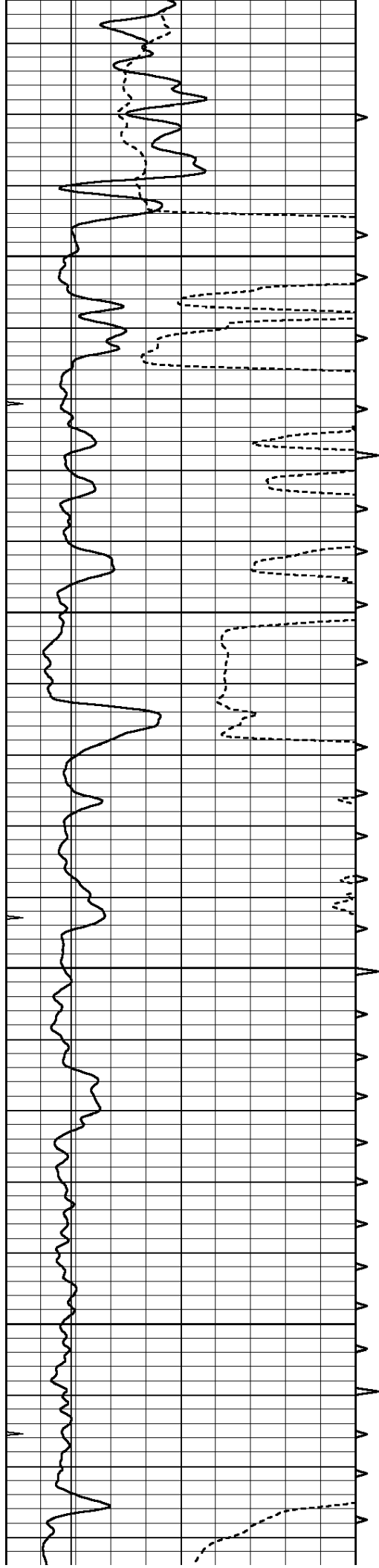
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1900



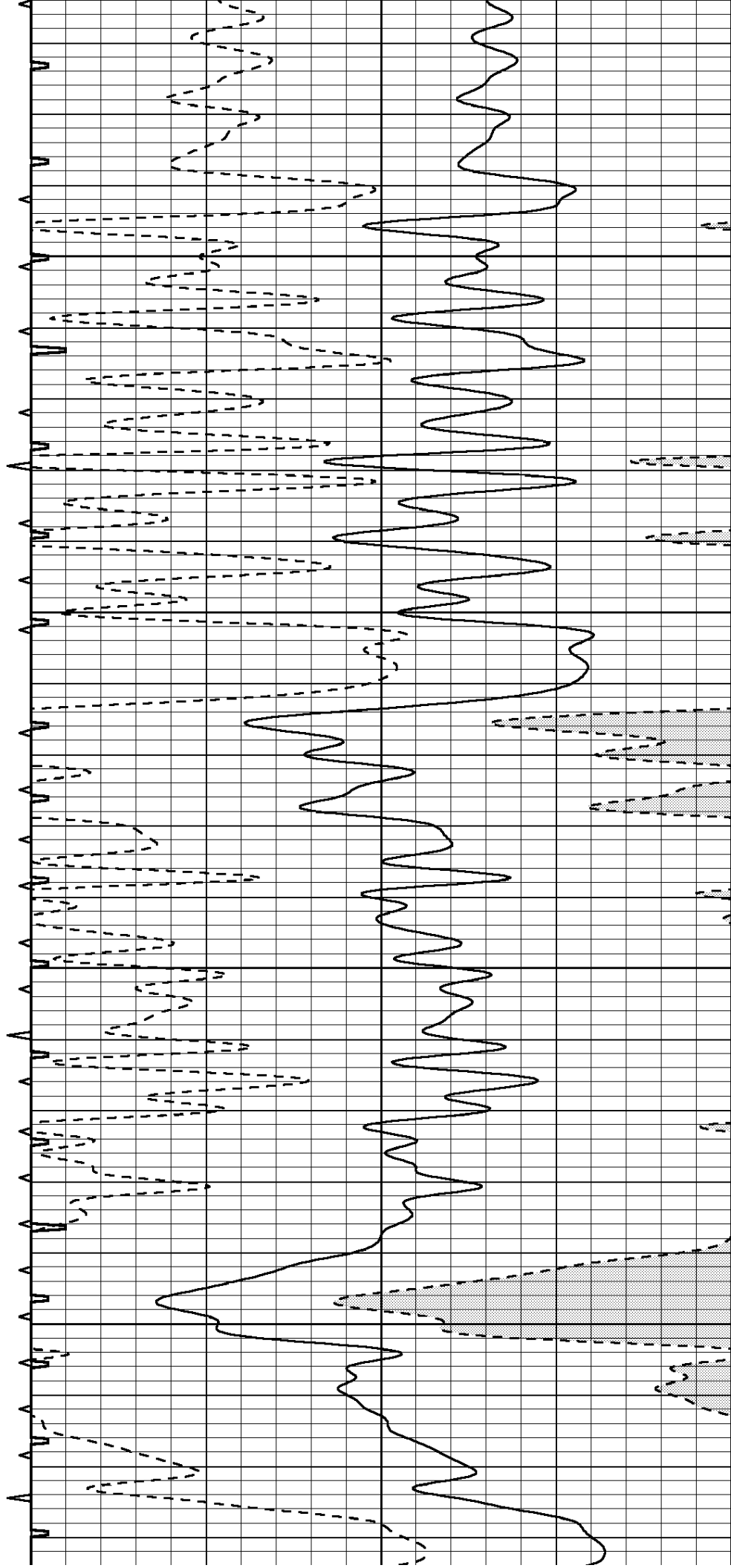


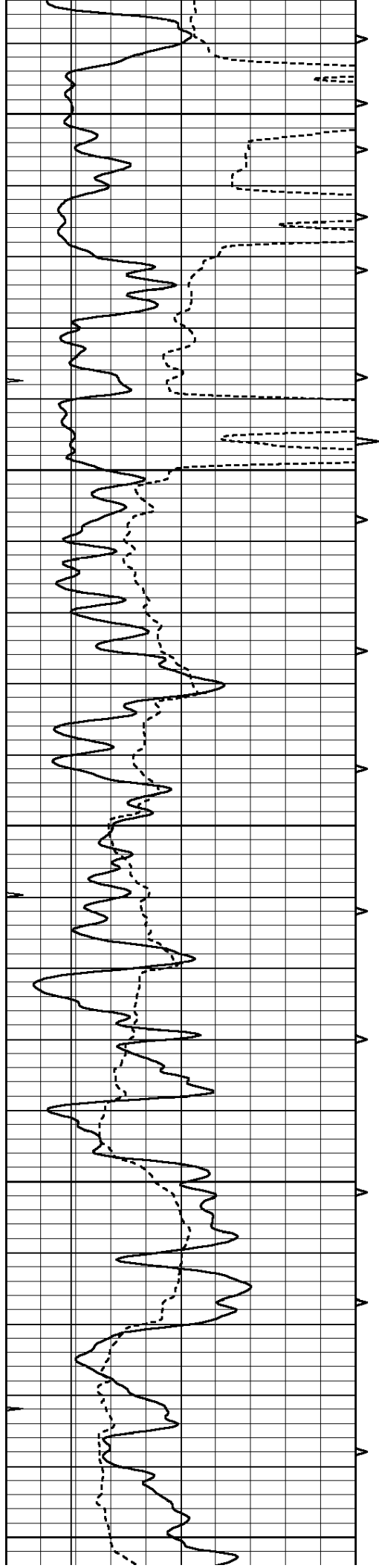
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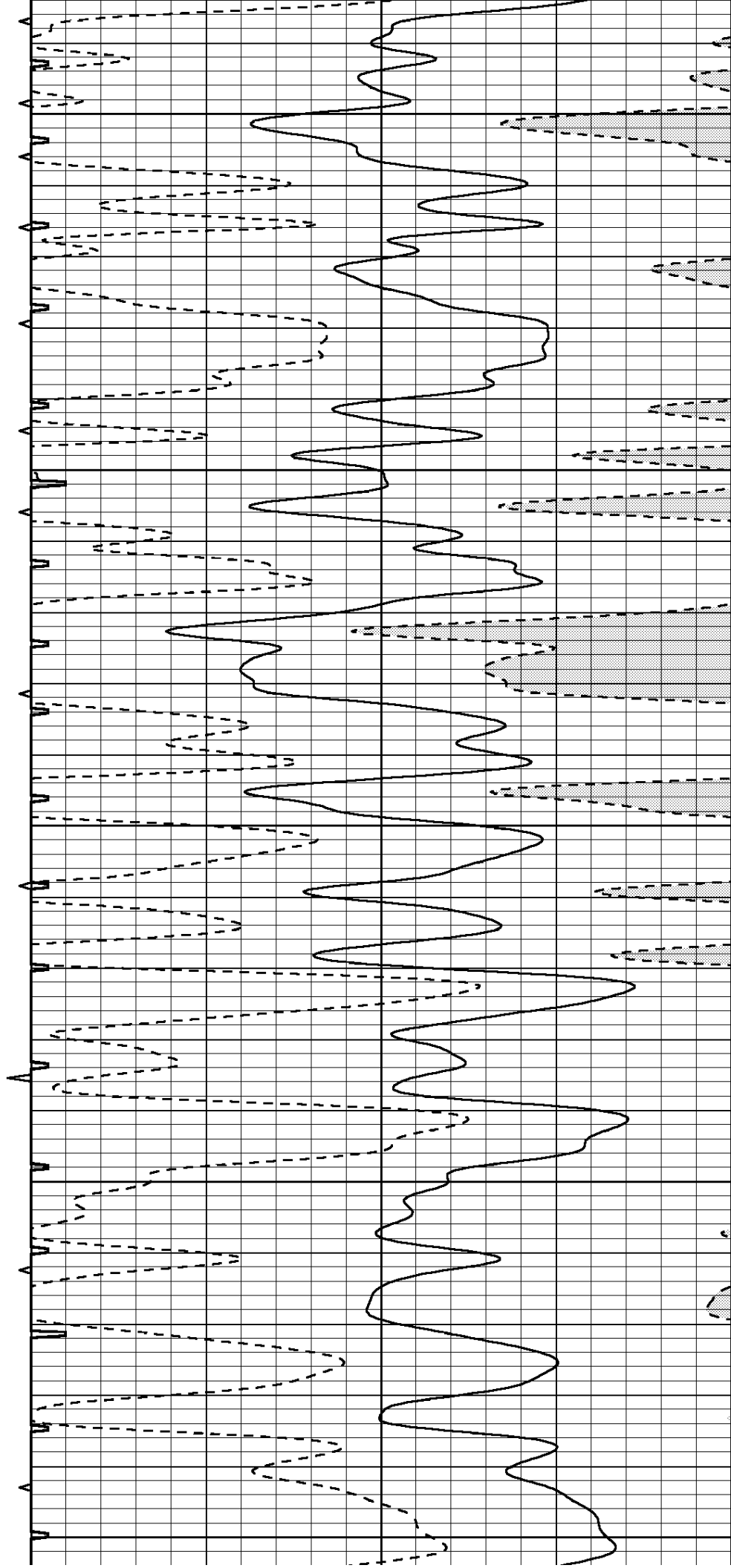
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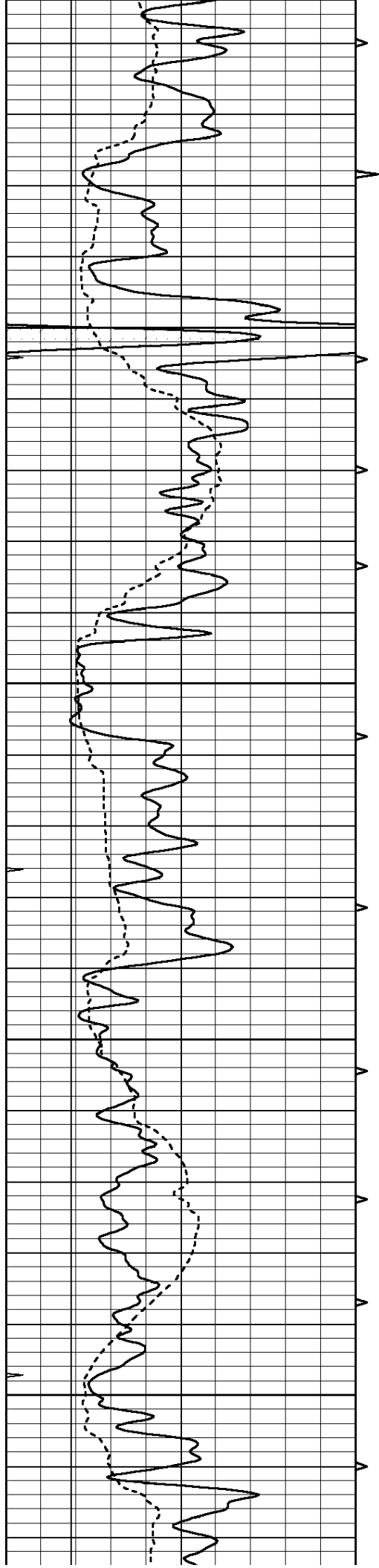
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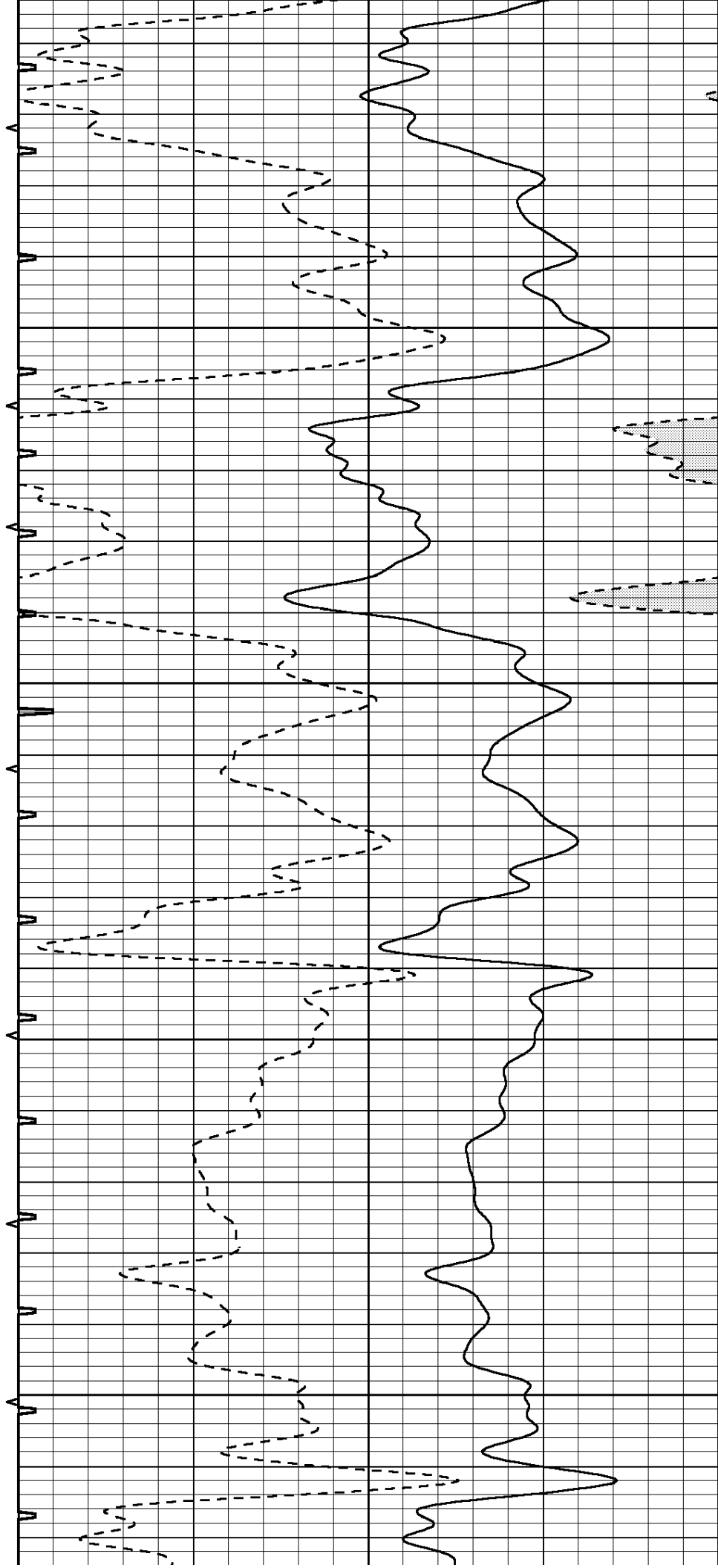


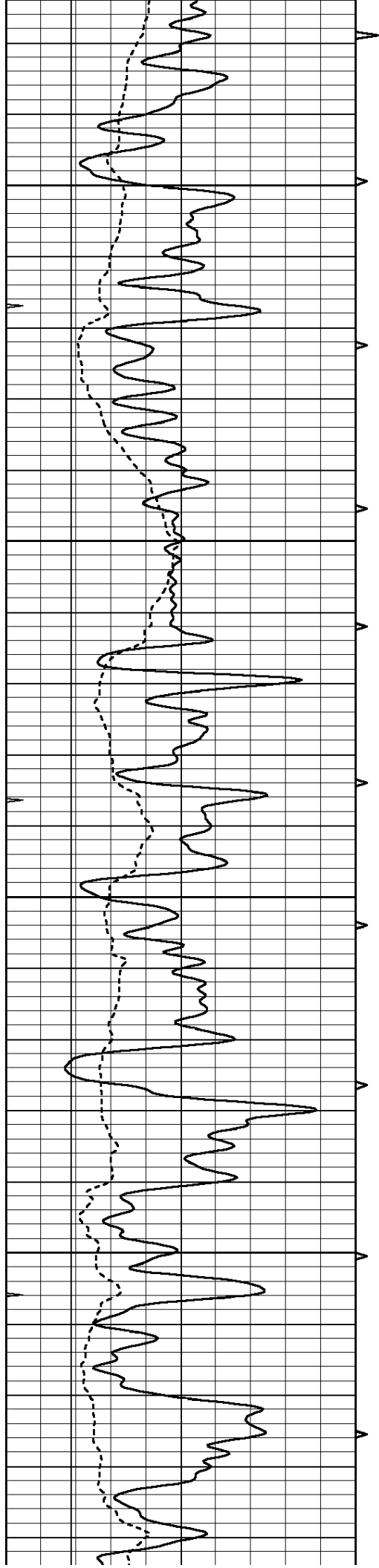
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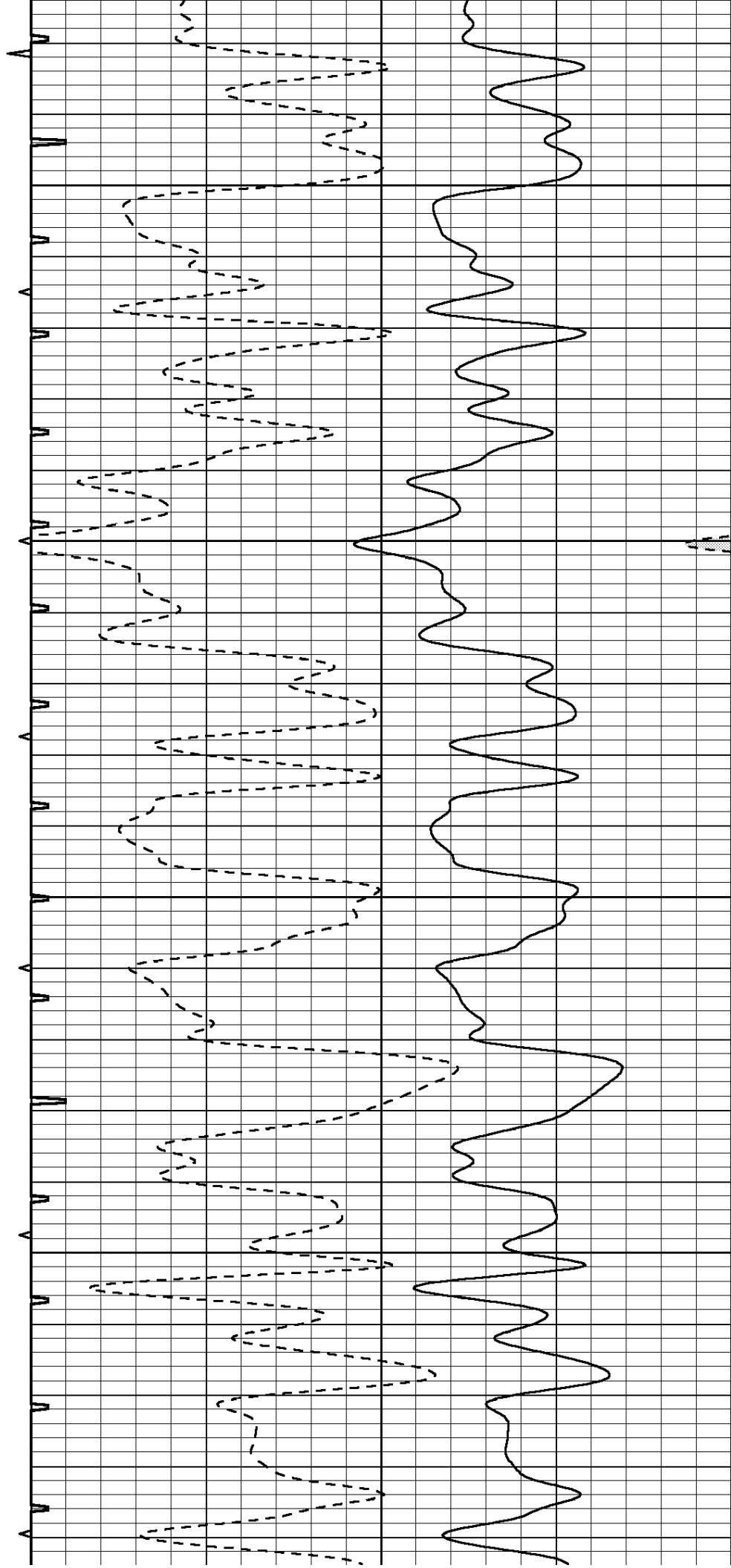


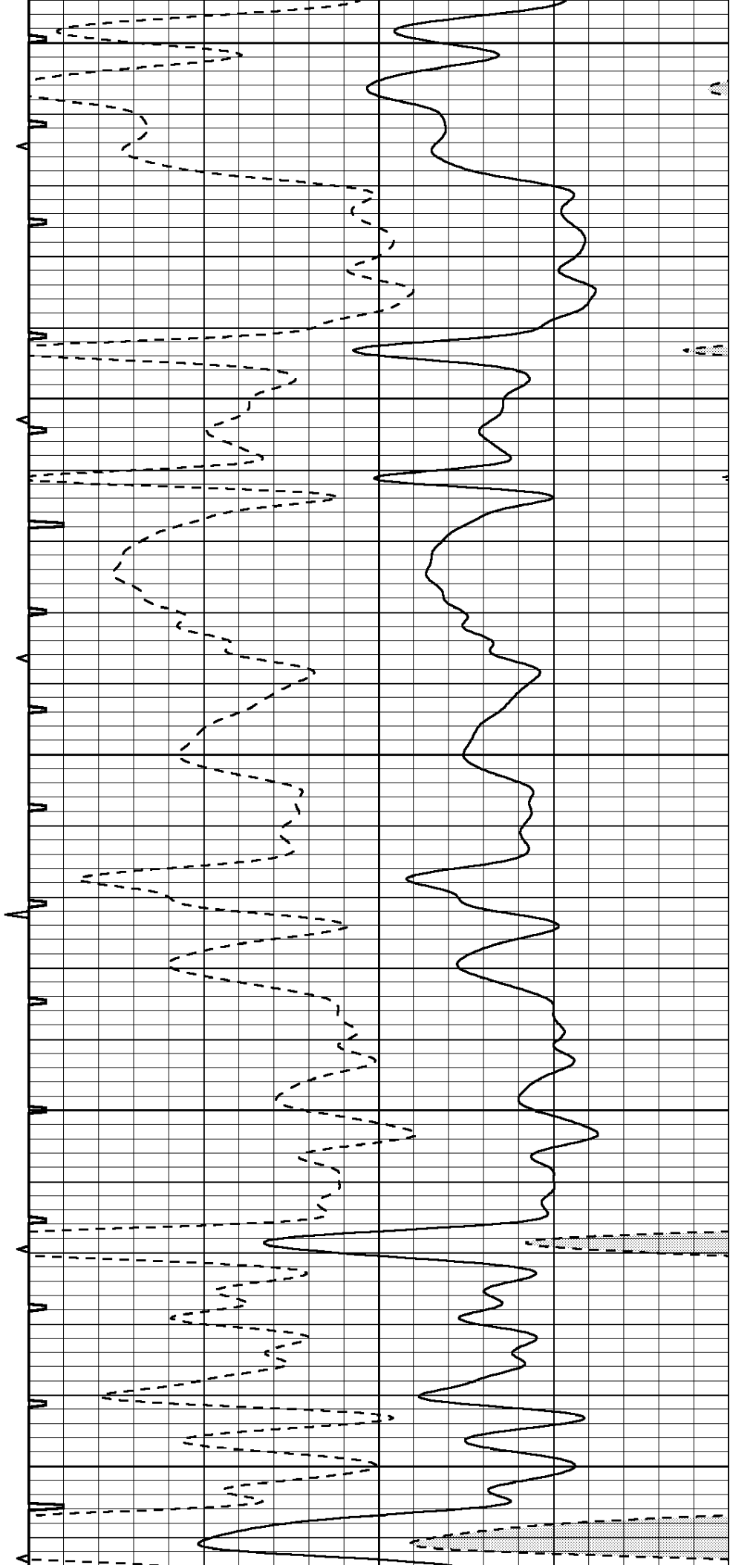
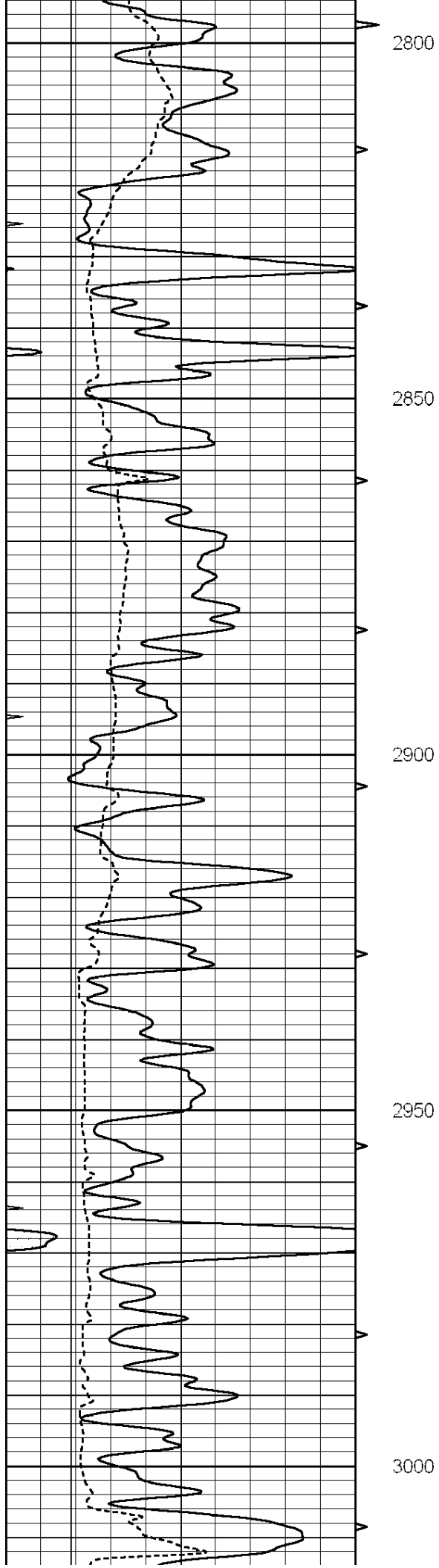
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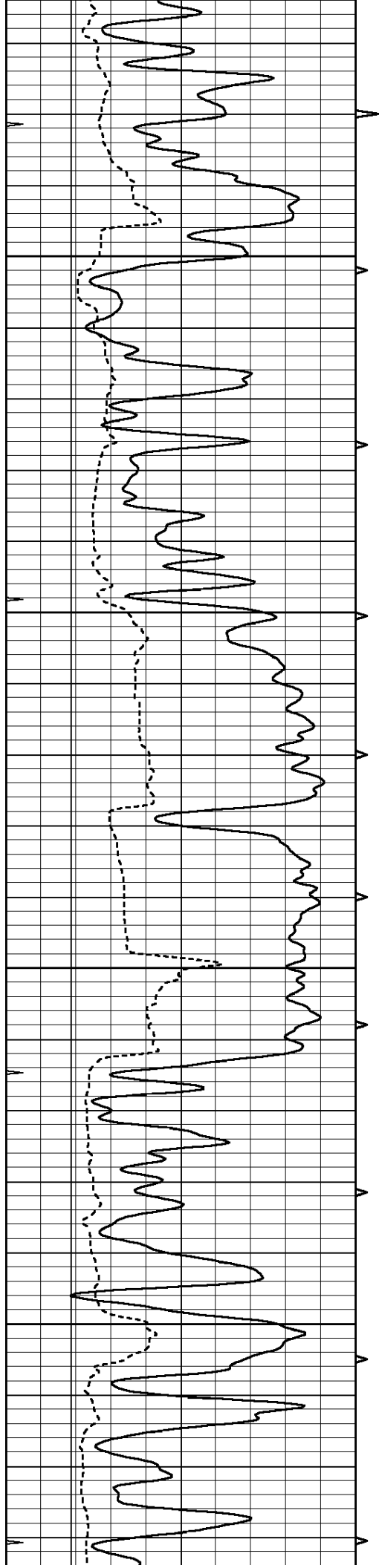
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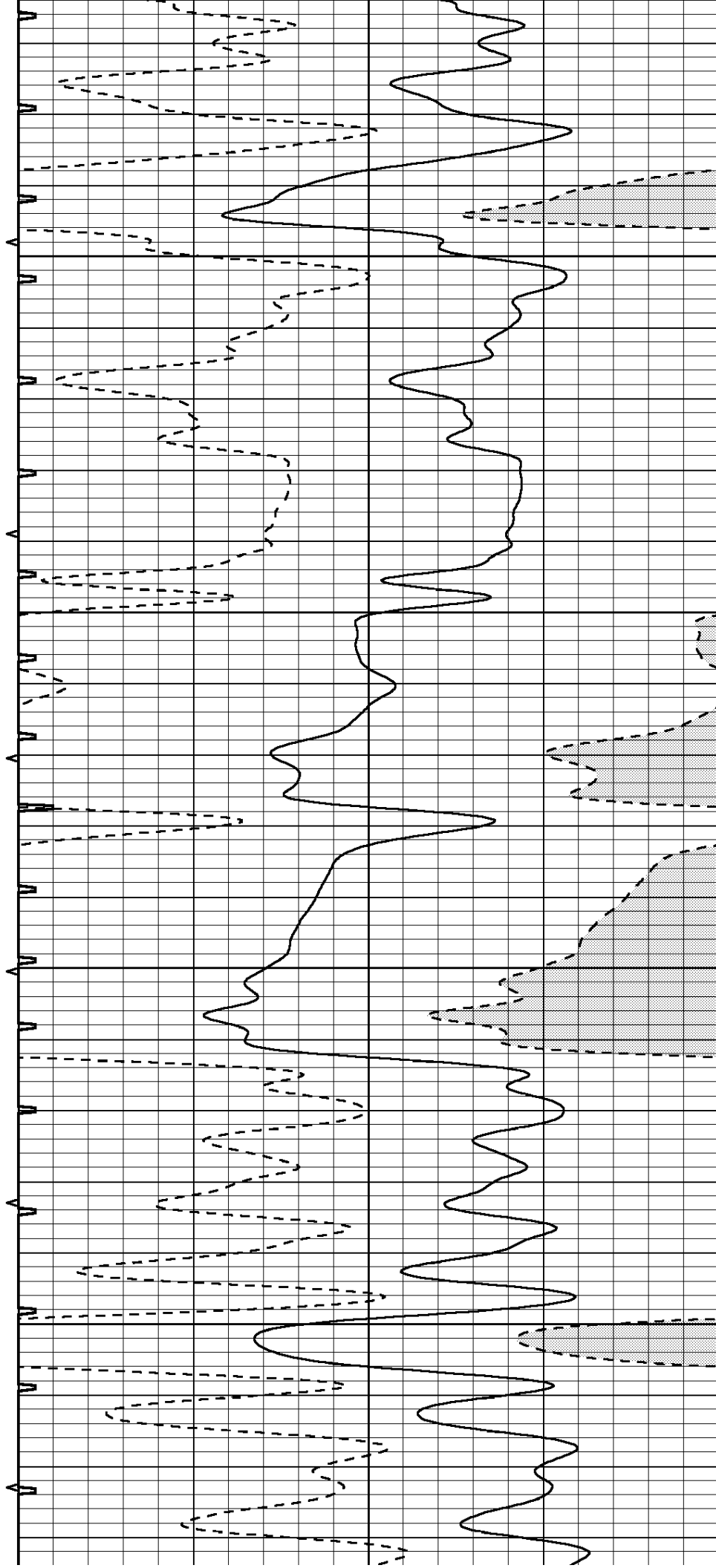


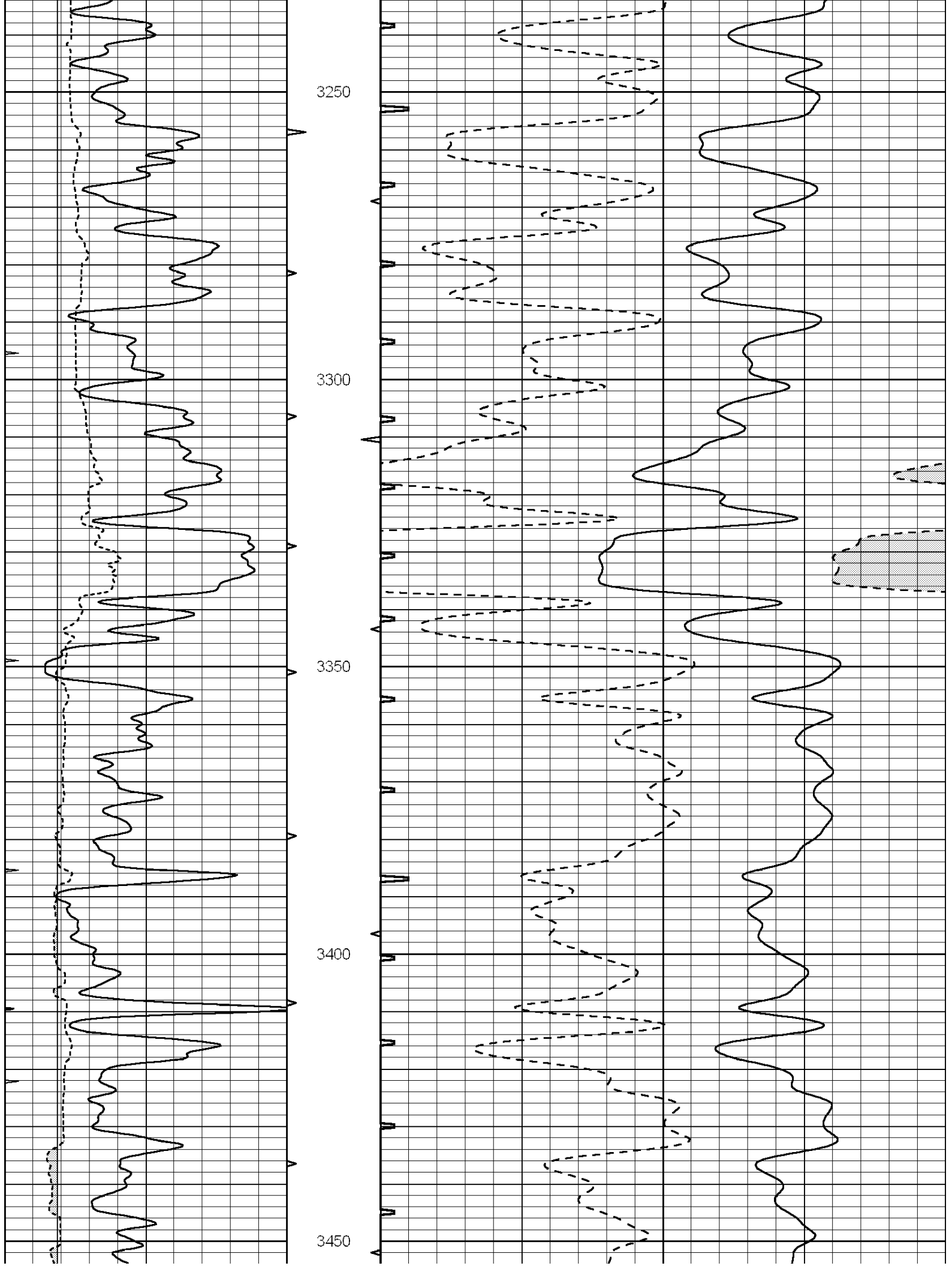
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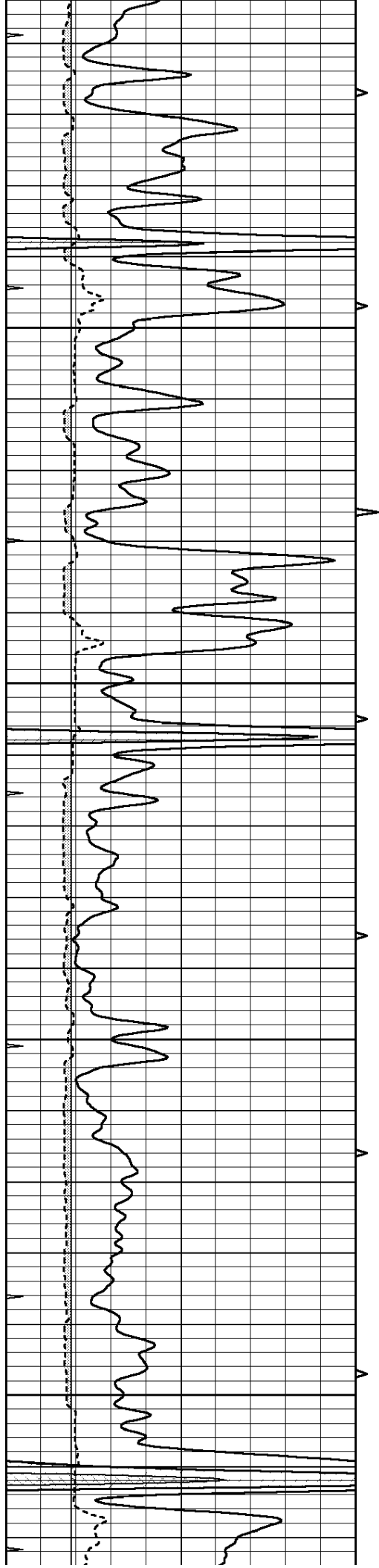
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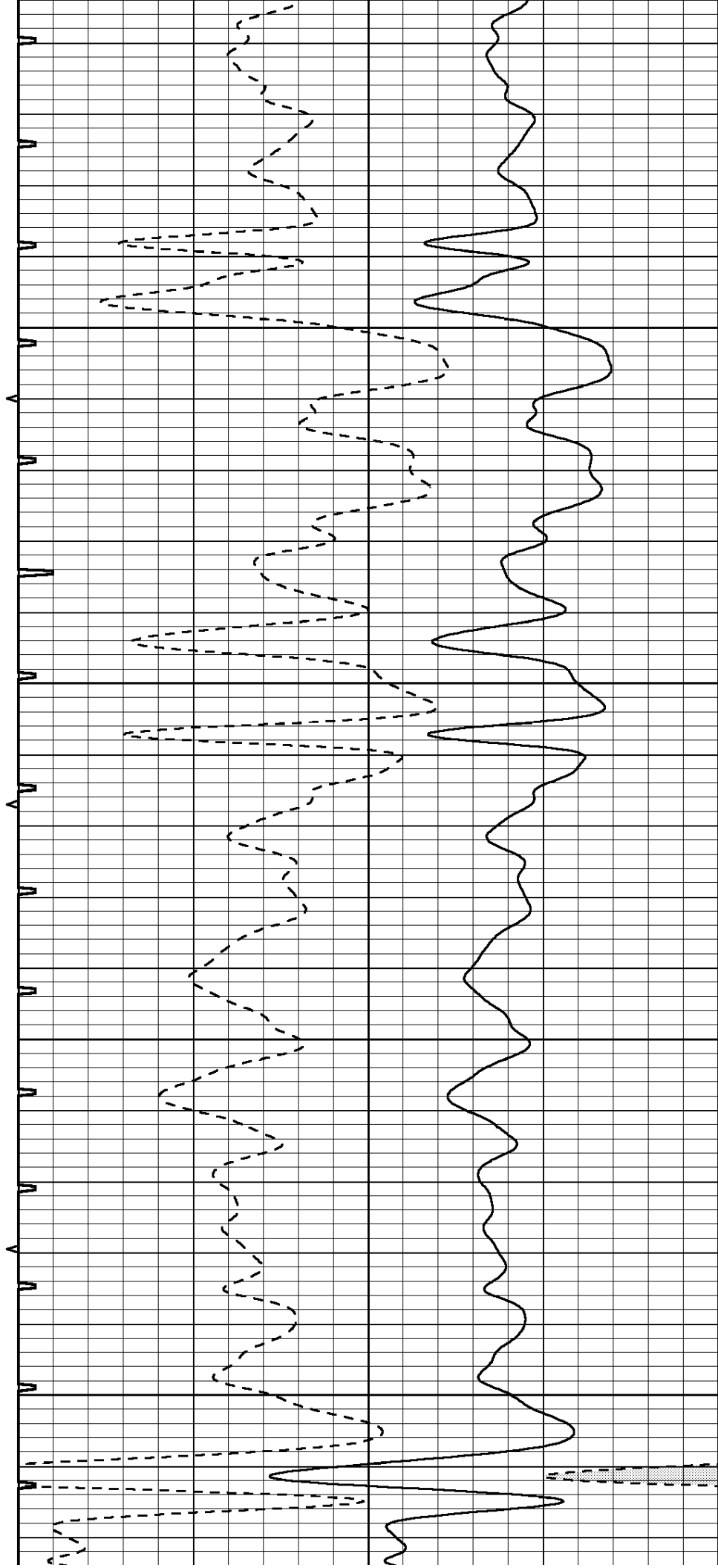


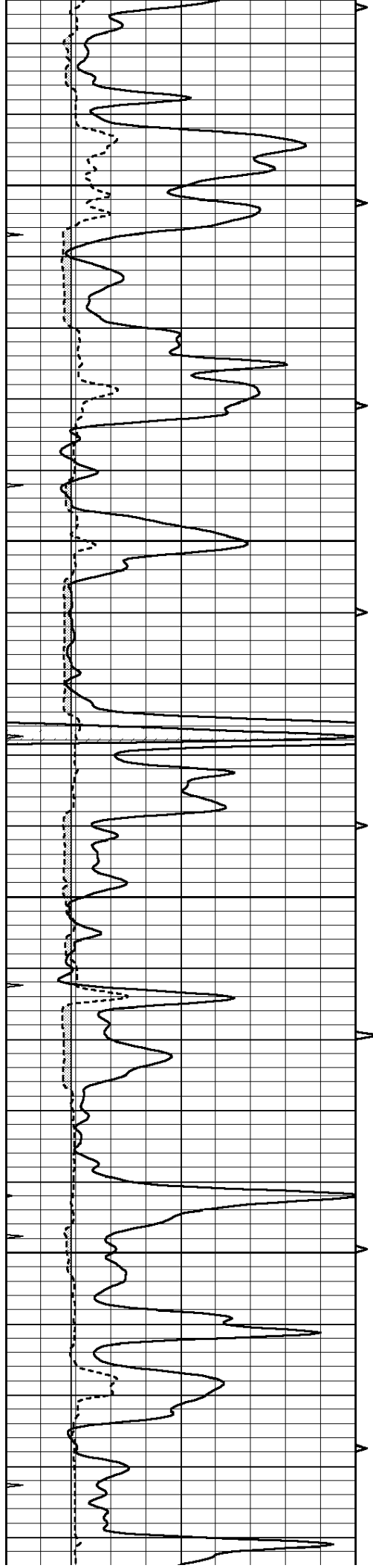
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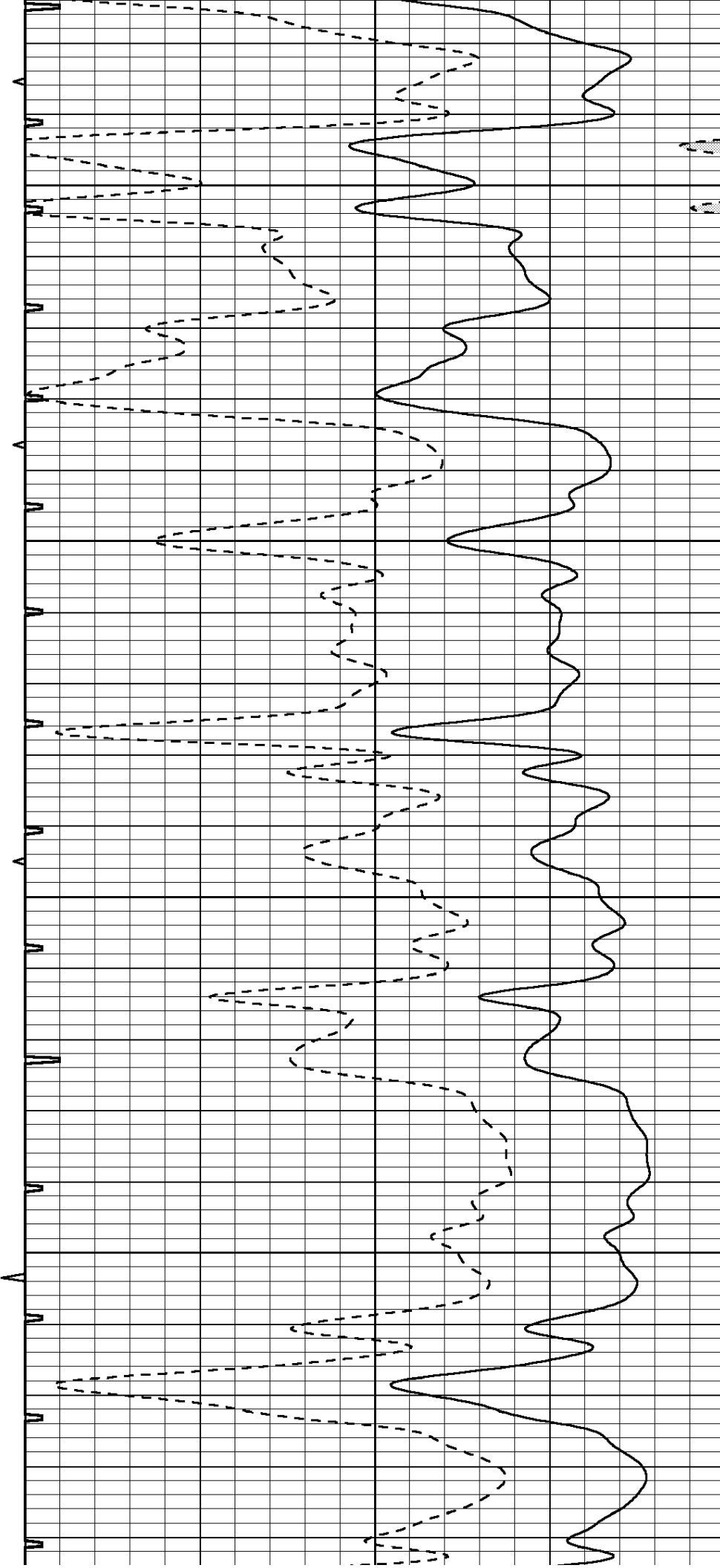


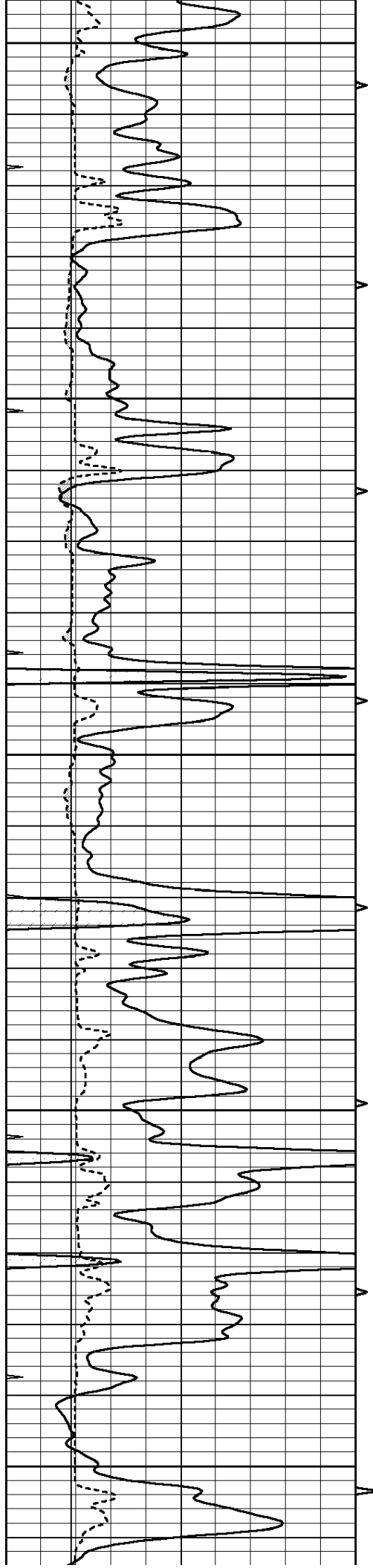
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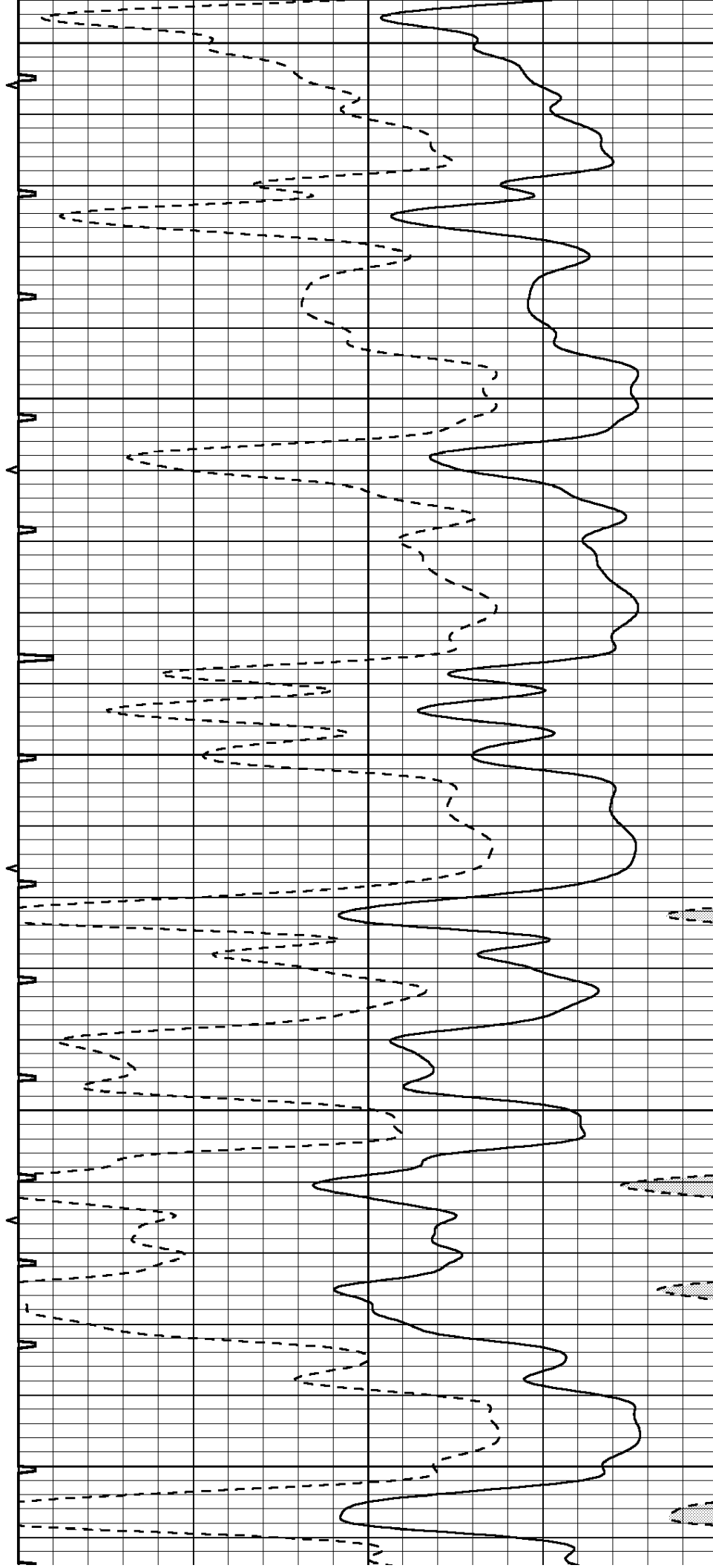
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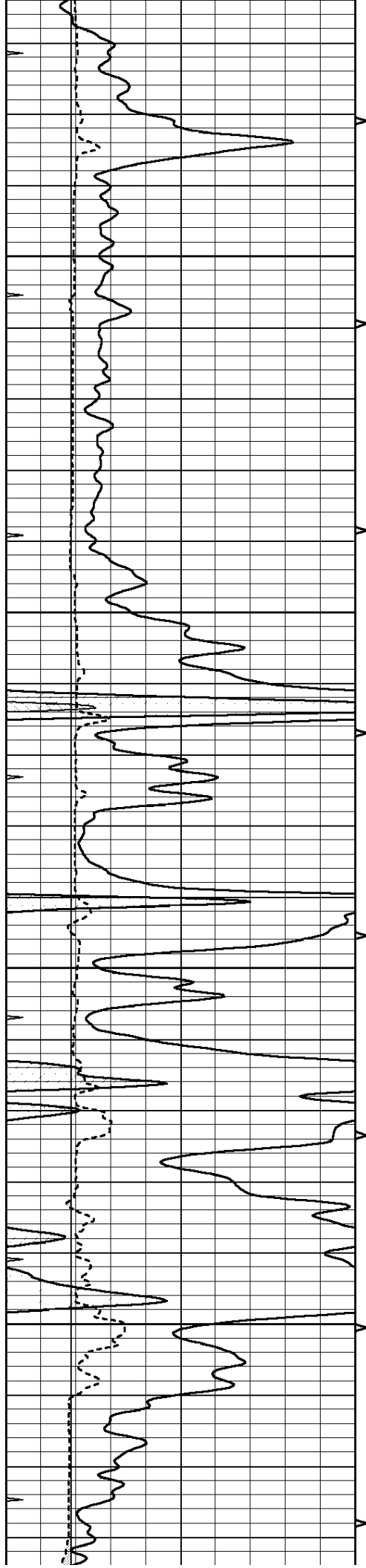
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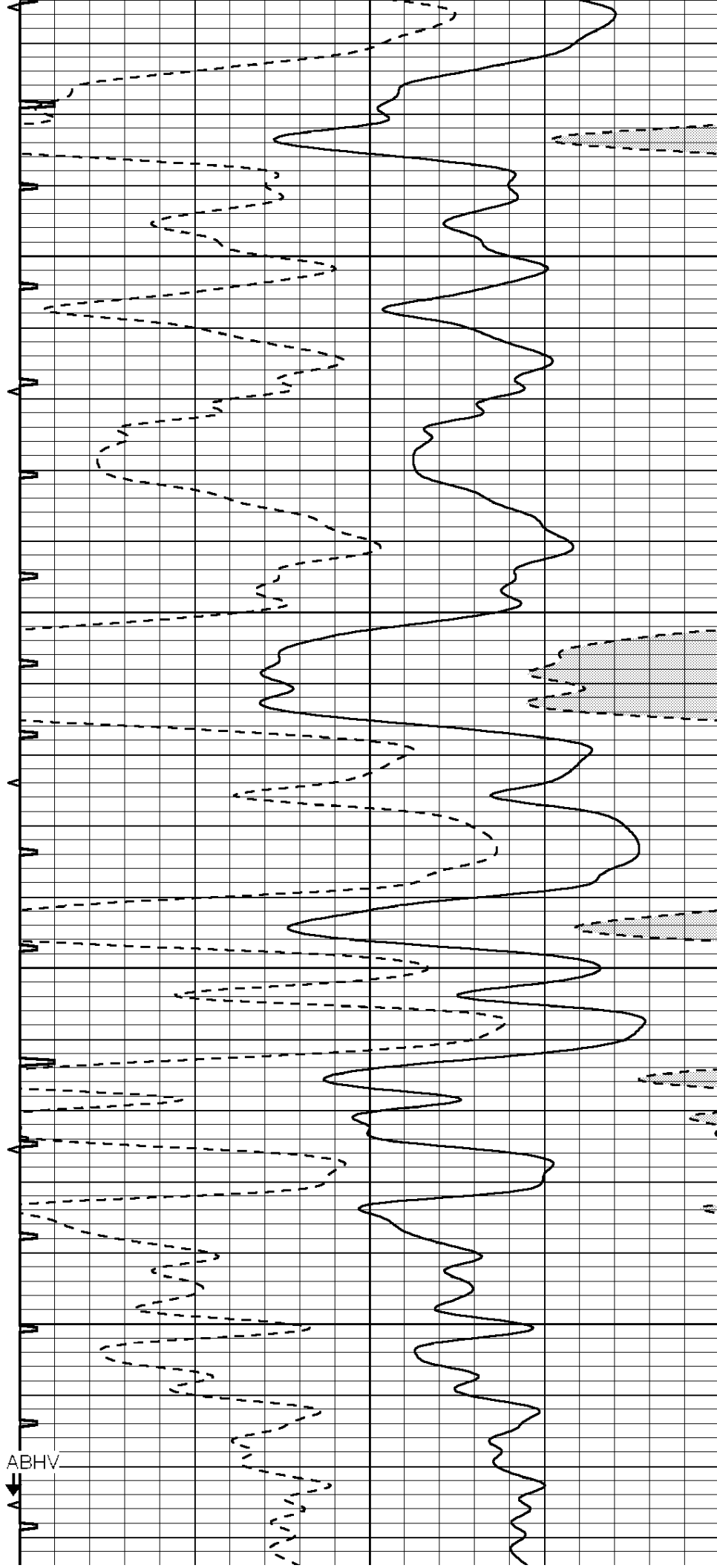
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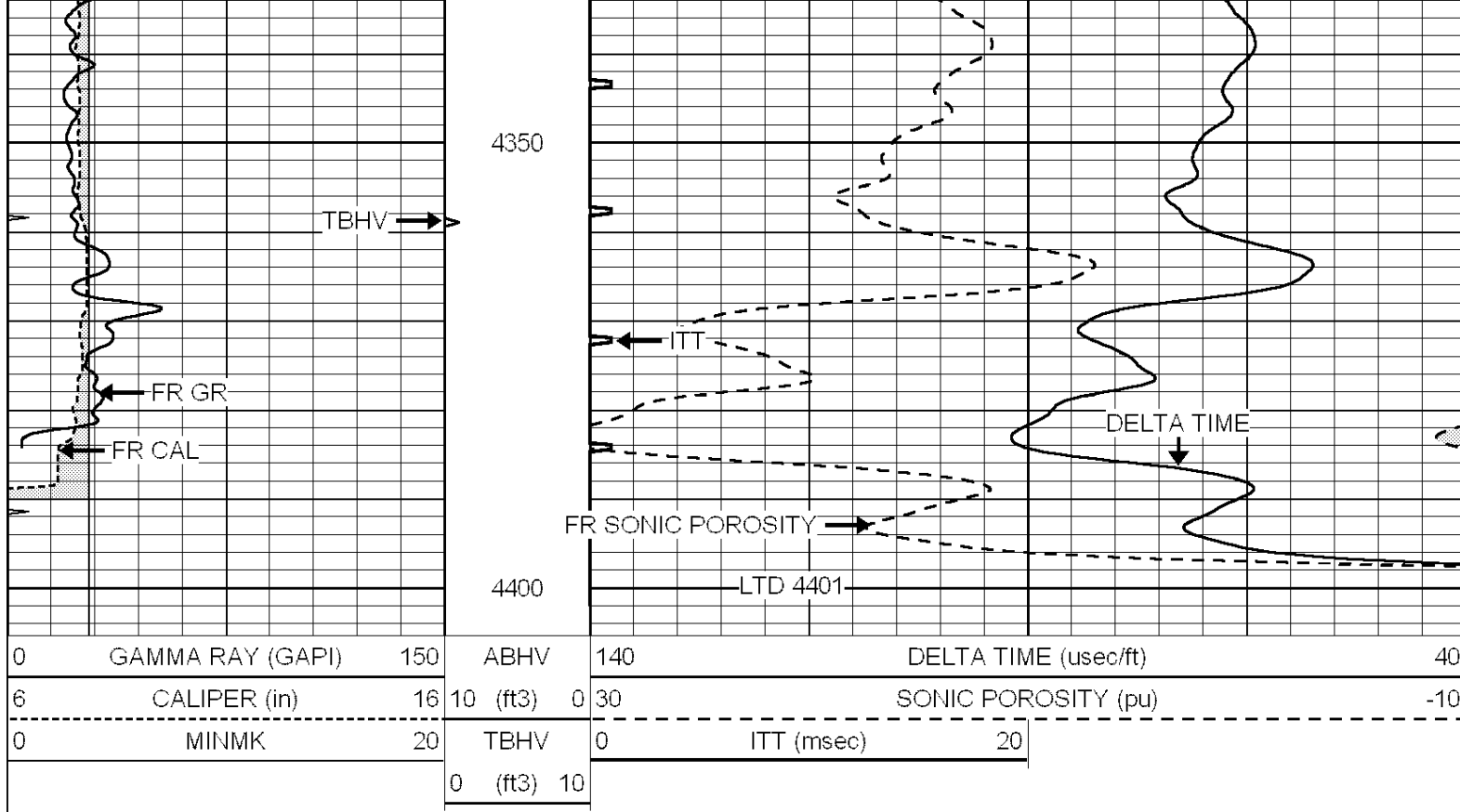
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5.5" ABHV





REPEAT SECTION

Database File: 25882pe.db
 Dataset Pathname: pass5.4
 Presentation Format: slt
 Dataset Creation: Wed Sep 17 11:32:15 2014 by Calc SOC 120430
 Charted by: Depth in Feet scaled 1:240

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		

