



SUPERIOR
Hays,
Kansas

SONIC LOG

Company		MULL DRILLING CO., INC.	
Well		#1-17 WATERSON 'A'	
Field			
County		LANE	
State		KANSAS	
Location:		API # : 15-101-22256-0000	
Permanent Datum		GROUND LEVEL	
Log Measured From		KELLY BUSHING 9' A.G.L.	
Drilling Measured From		KELLY BUSHING	
SEC 17 TWP 17S RGE 27W		CDL/CNL DIL/MEL	
Elevation		K.B. 2718 D.F. 2716 G.L. 2709	
Date	10/9/10		
Run Number	TWO		
Depth Driller	4680		
Depth Logger	4686		
Bottom Logged Interval	4676		
Top Log Interval	200		
Casing Driller	8 5/8" @ 230		
Casing Logger	228		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 6400 PPM	
Density / Viscosity	9.2 / 48		
pH / Fluid Loss	9.5 / 10.4		
Source of Sample	FLOWLINE		
Rin @ Meas. Temp	0.75 @ 86F		
Rmf @ Meas. Temp	0.56 @ 86F		
Rmc @ Meas. Temp	0.90 @ 86F		
Source of Rmf / Rmc	MEASURED		
Rin @ BHT	0.53 @ 122F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	122F		
Equipment Number	680		
Location	HAYS, KS.		
Recorded By	JEFF GRONEMEG		
Witnessed By	KEVIN KESSLER		

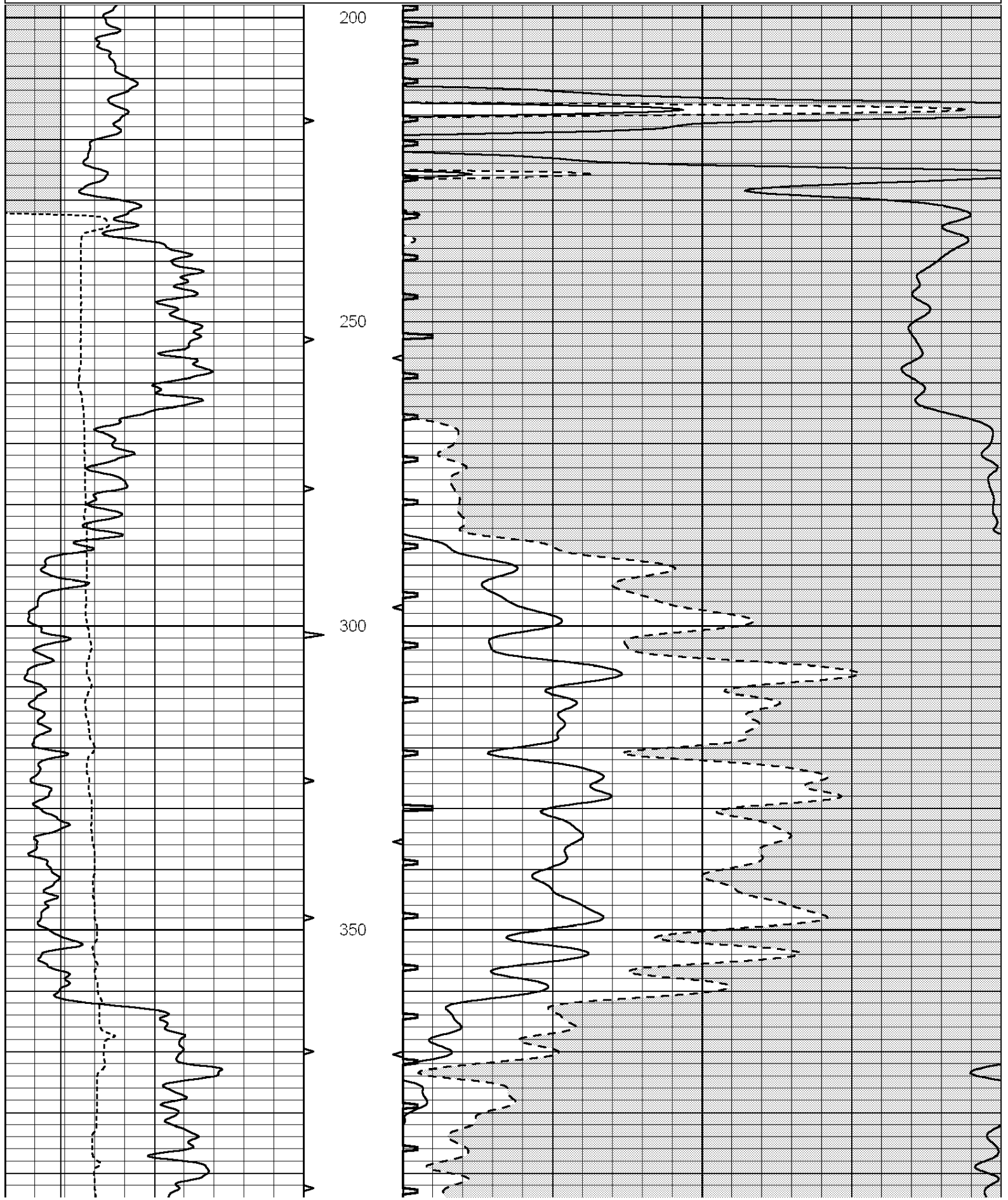
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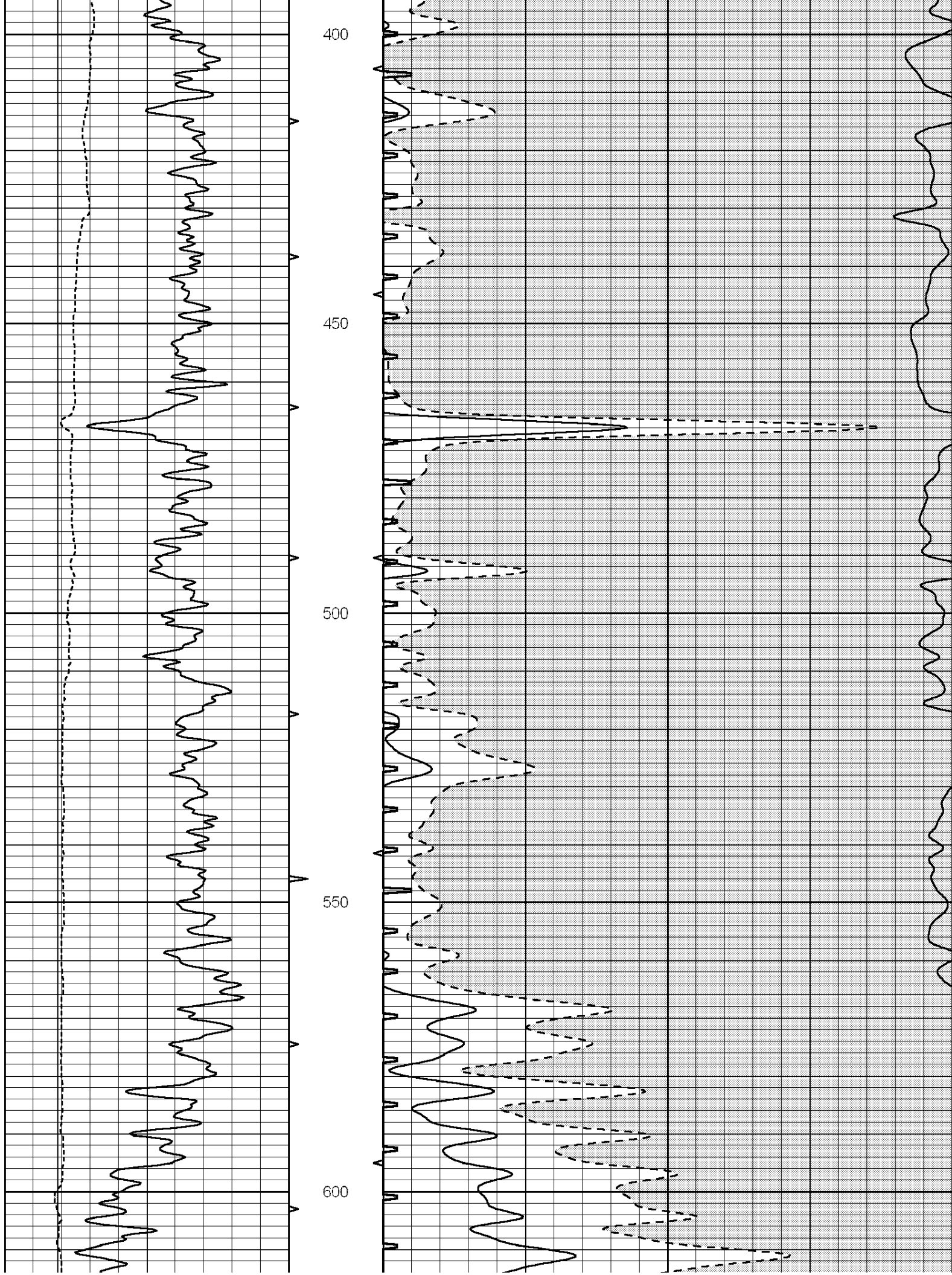
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

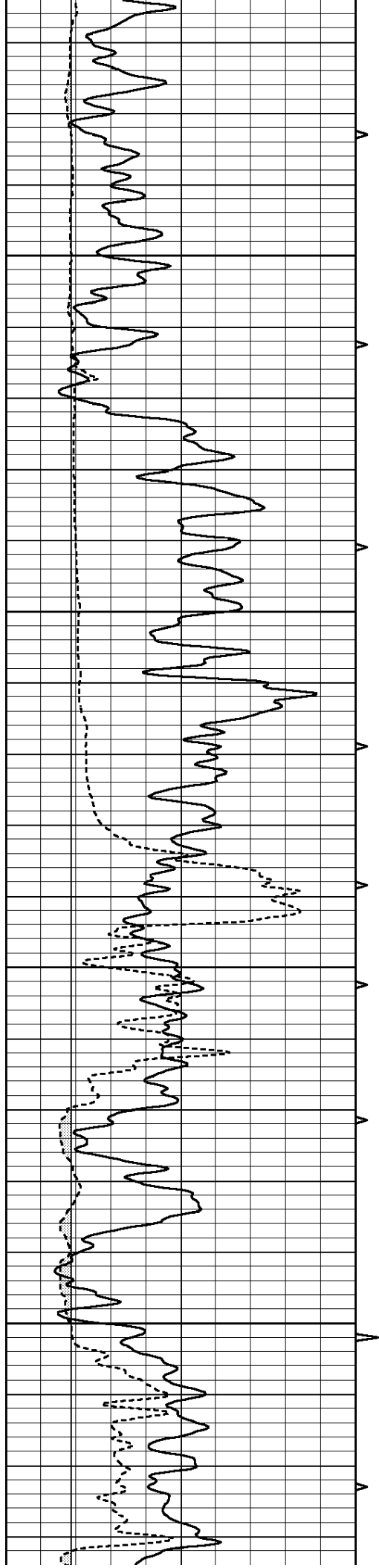
Comments

THANK YOU FOR USING SUPERIOR WELL SERVICE (785) 628-6395
DIRECTIONS
UTICA, KS - WEST TO SCOUT RD - 3 MILES SOUTH - 1/2 MILE WEST
SOUTH INTO

Charted by: _____		Depth in Feet scaled 1:2.15				
0	GAMMA RAY (GAPI)	150	ABHV	140	DELTA TIME (usec/ft)	40
6	CALIPER (in)	16	10 (ft3) 0	30	SONIC POROSITY (pu)	-10
-----			TBHV	0	ITT (msec)	20
			0 (ft3) 10			





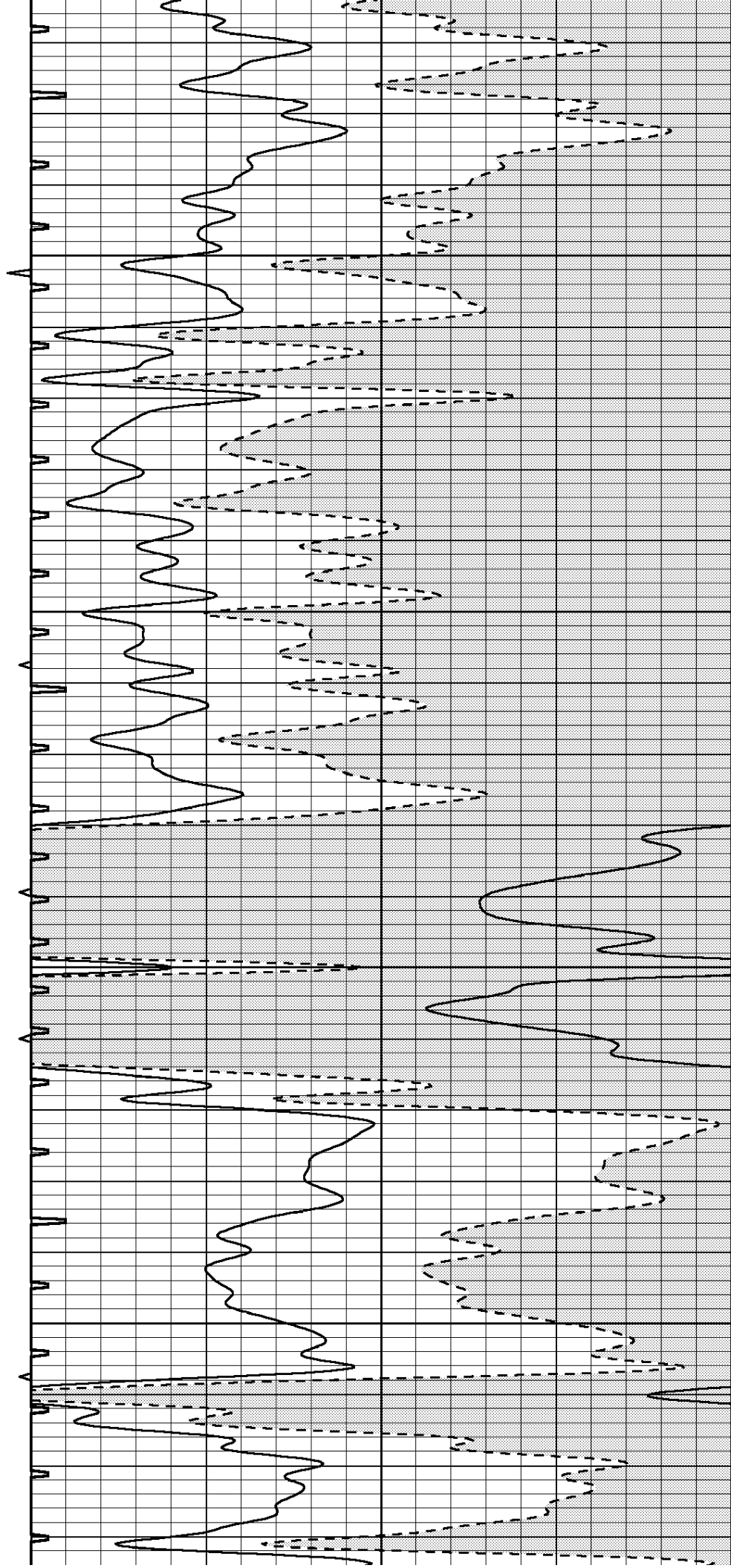


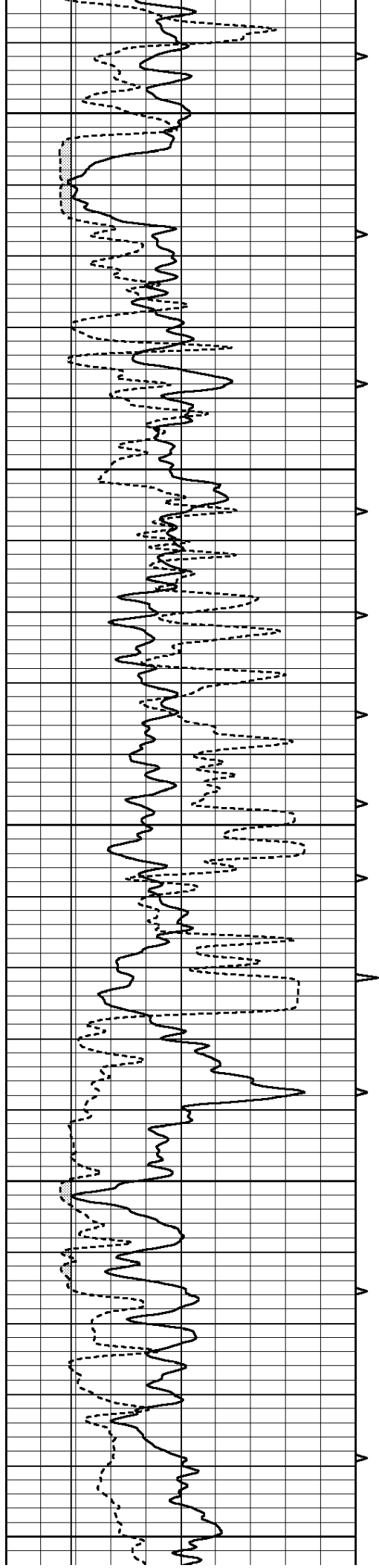
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700

750

800





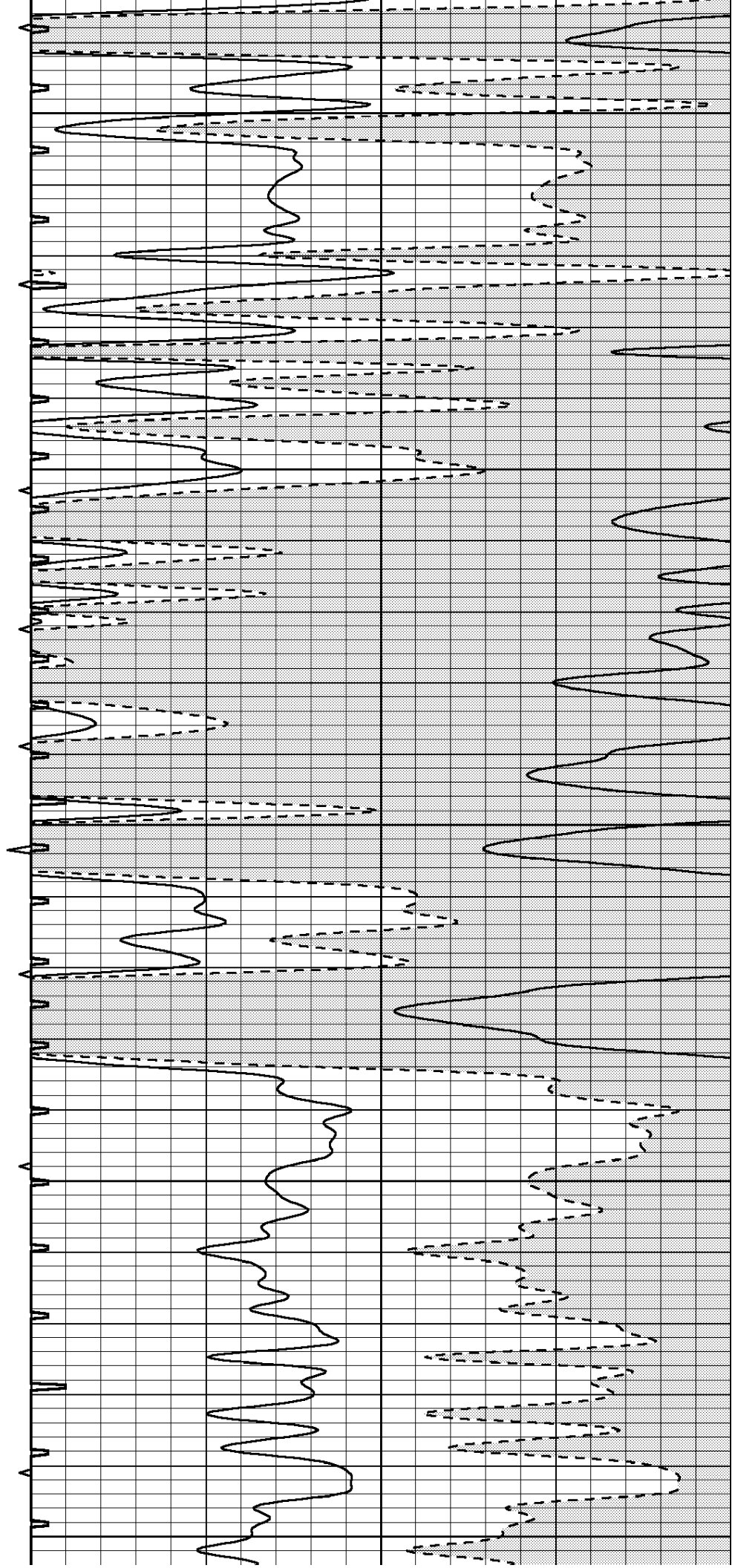
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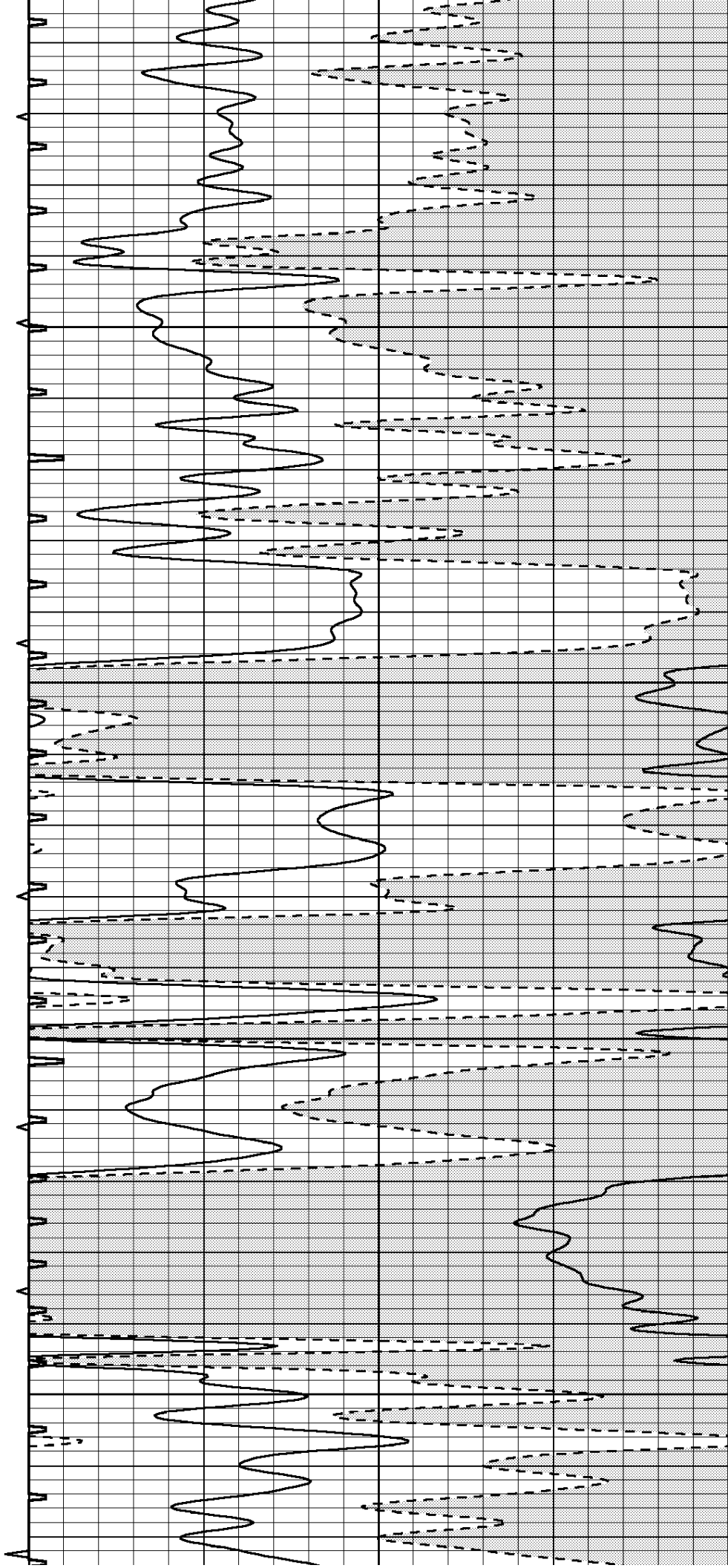
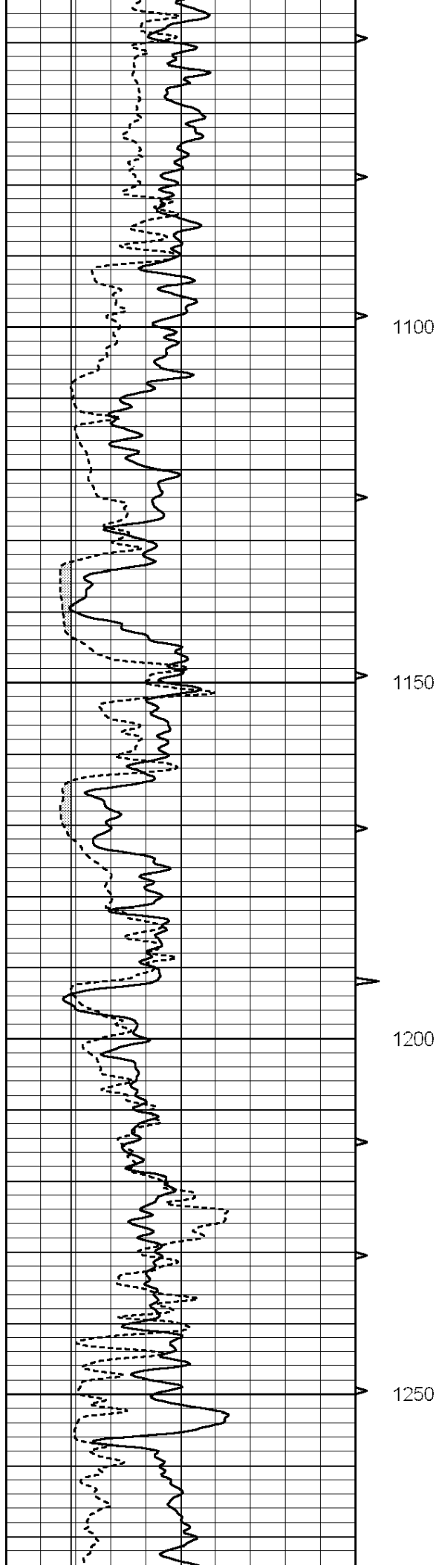
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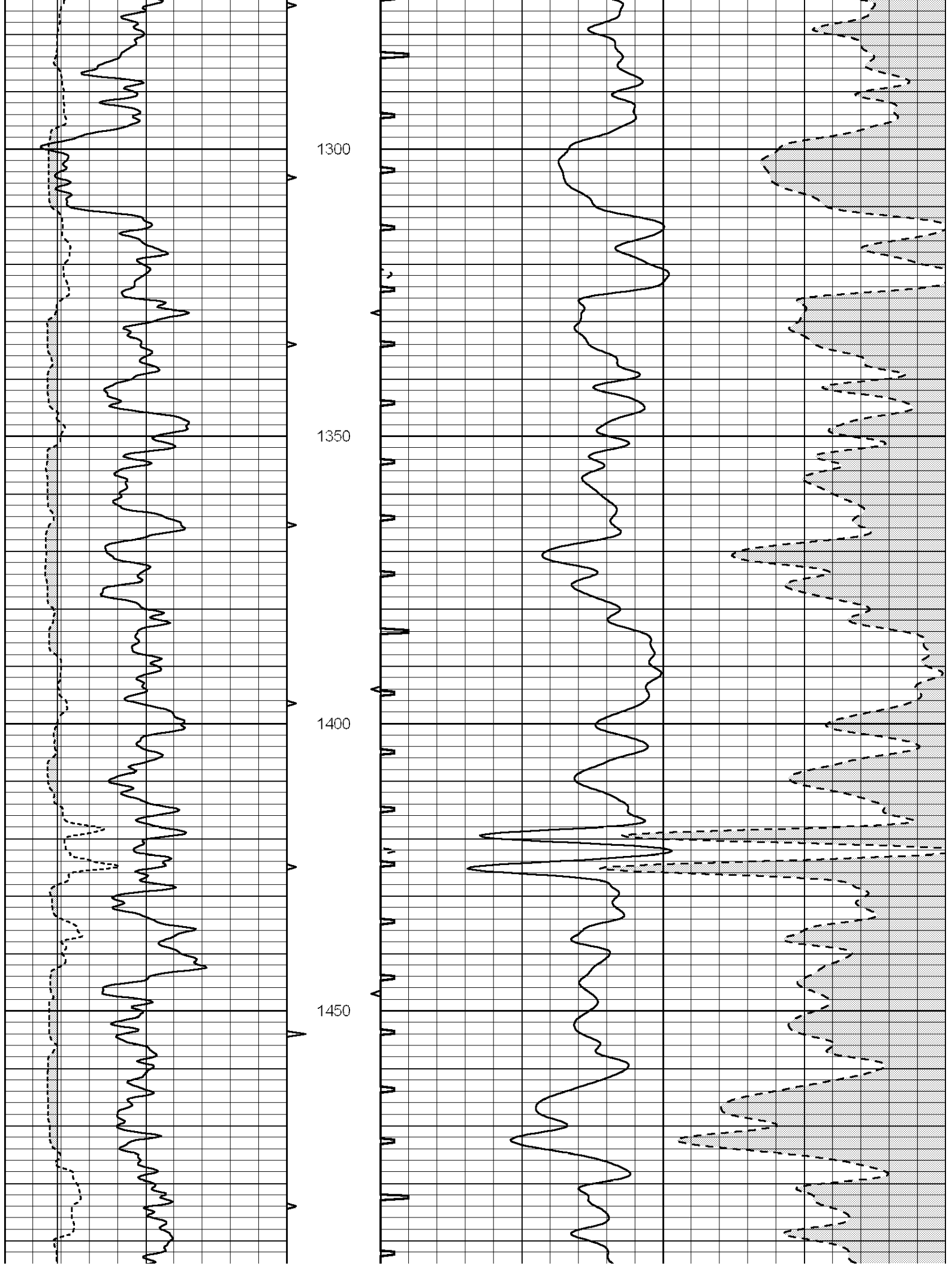
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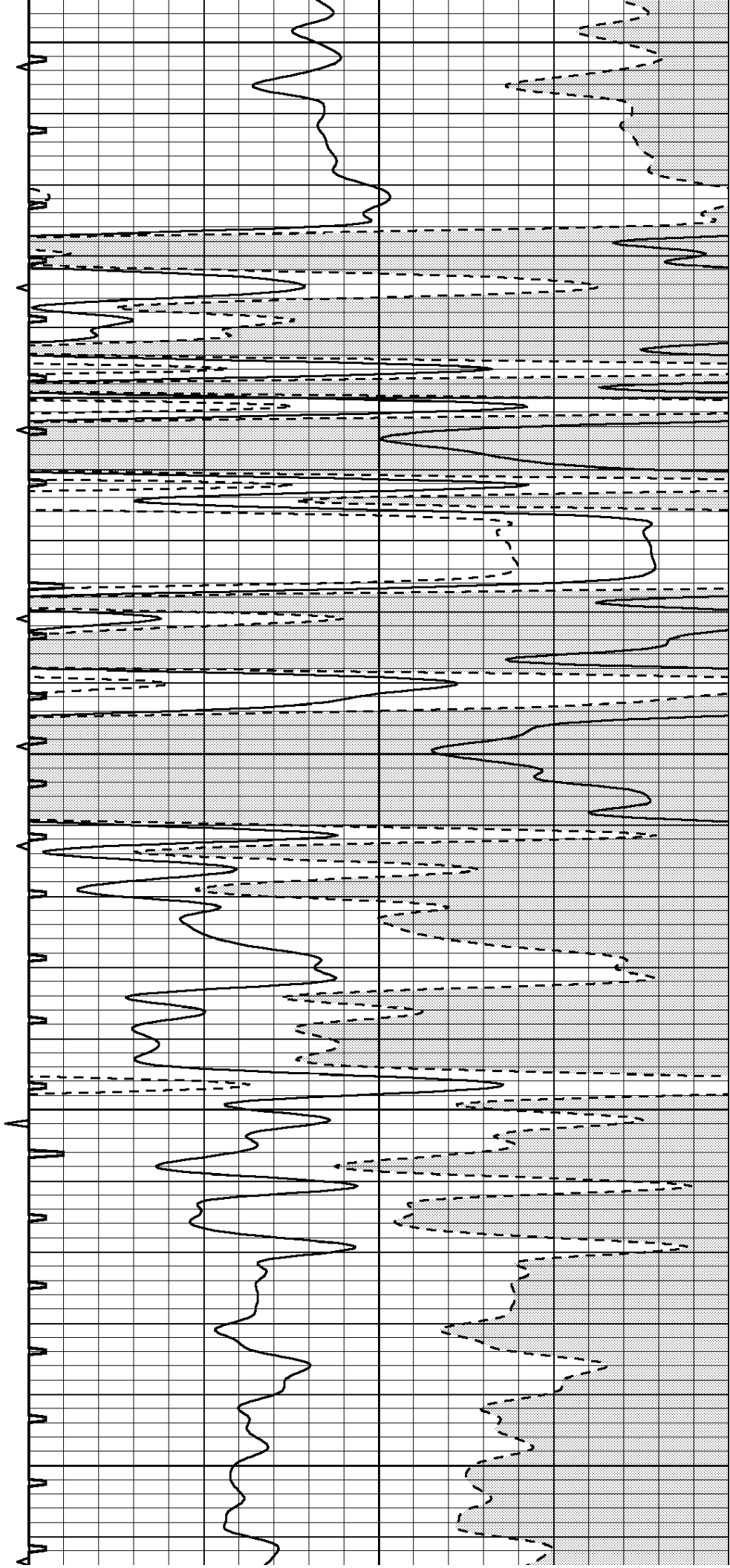
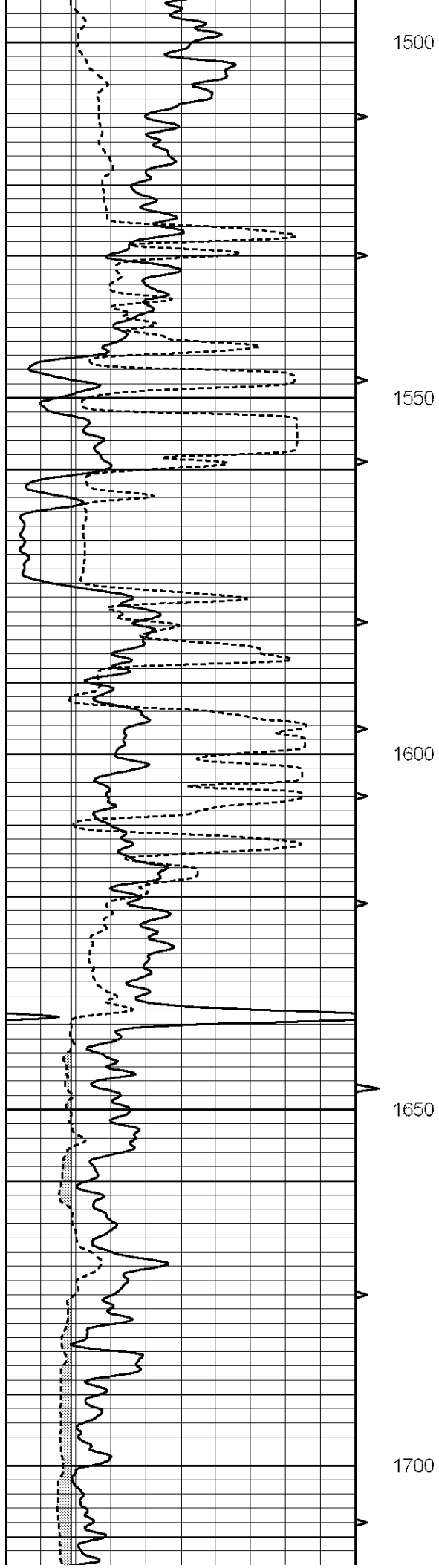
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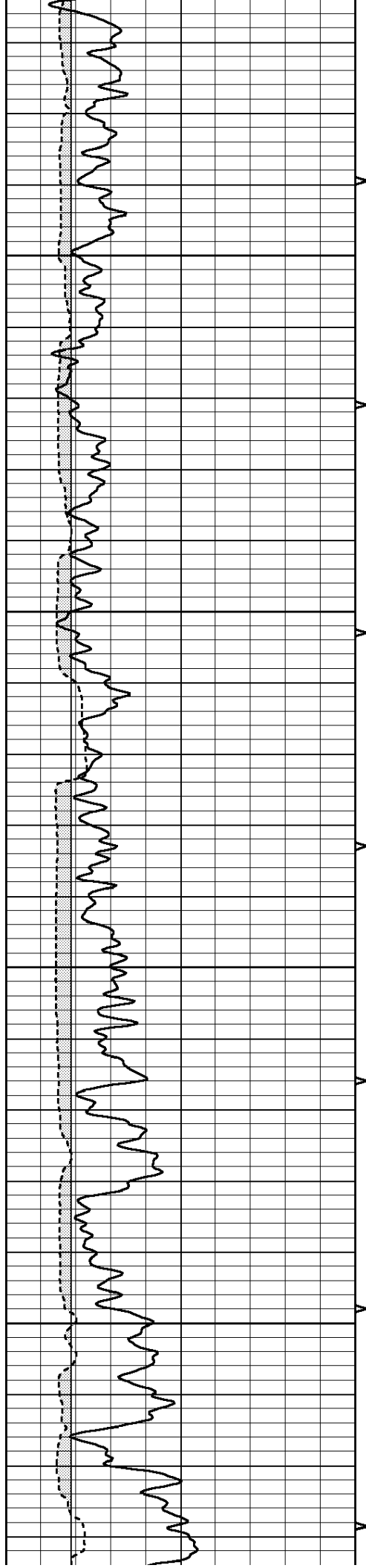
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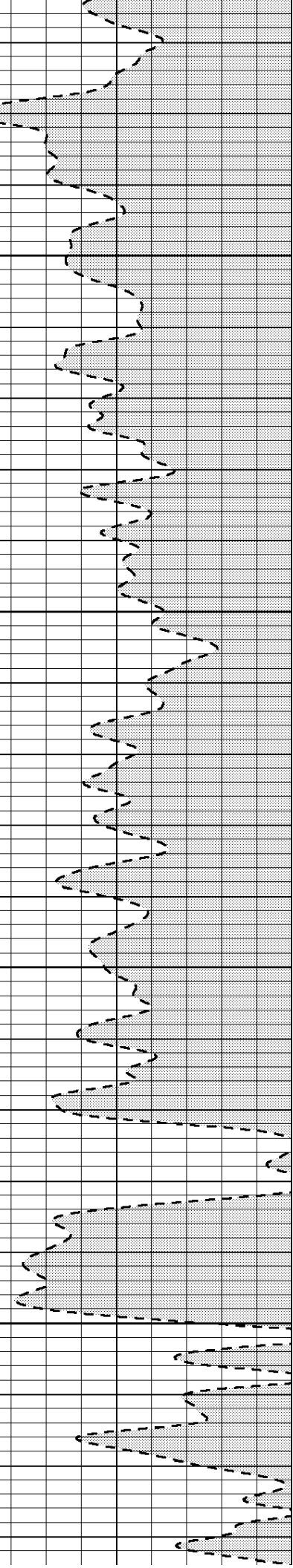
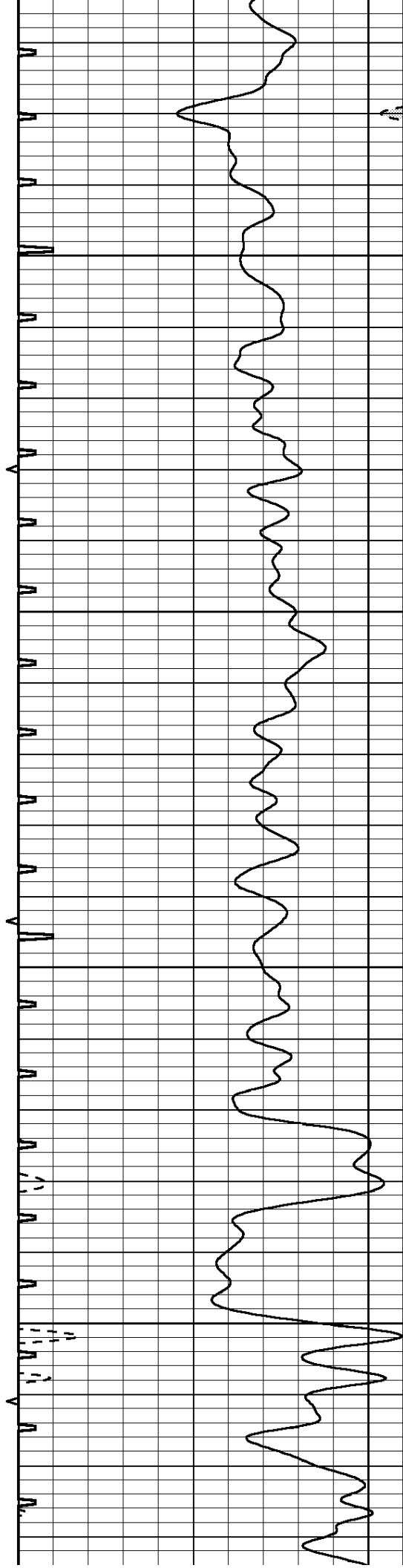


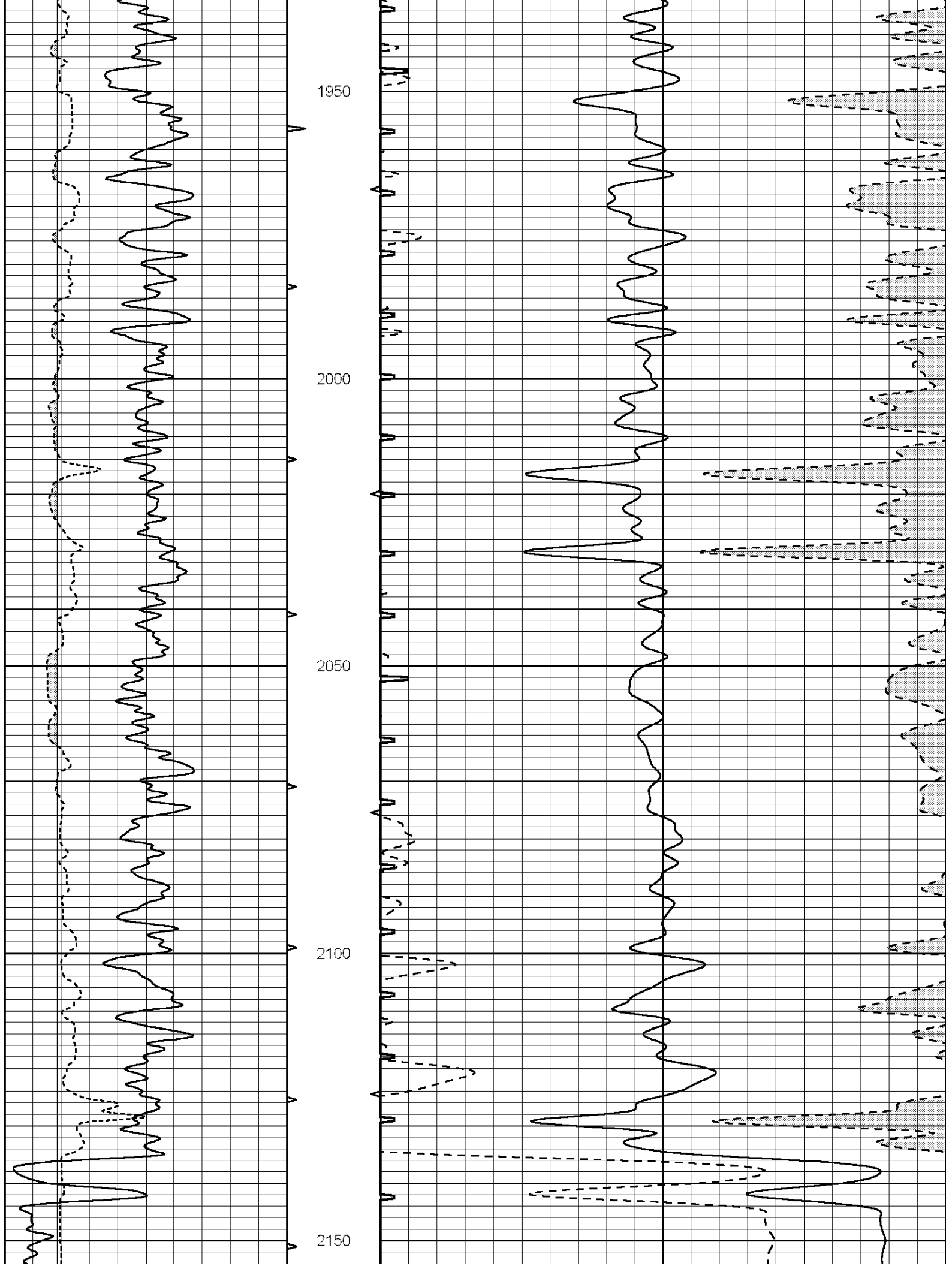
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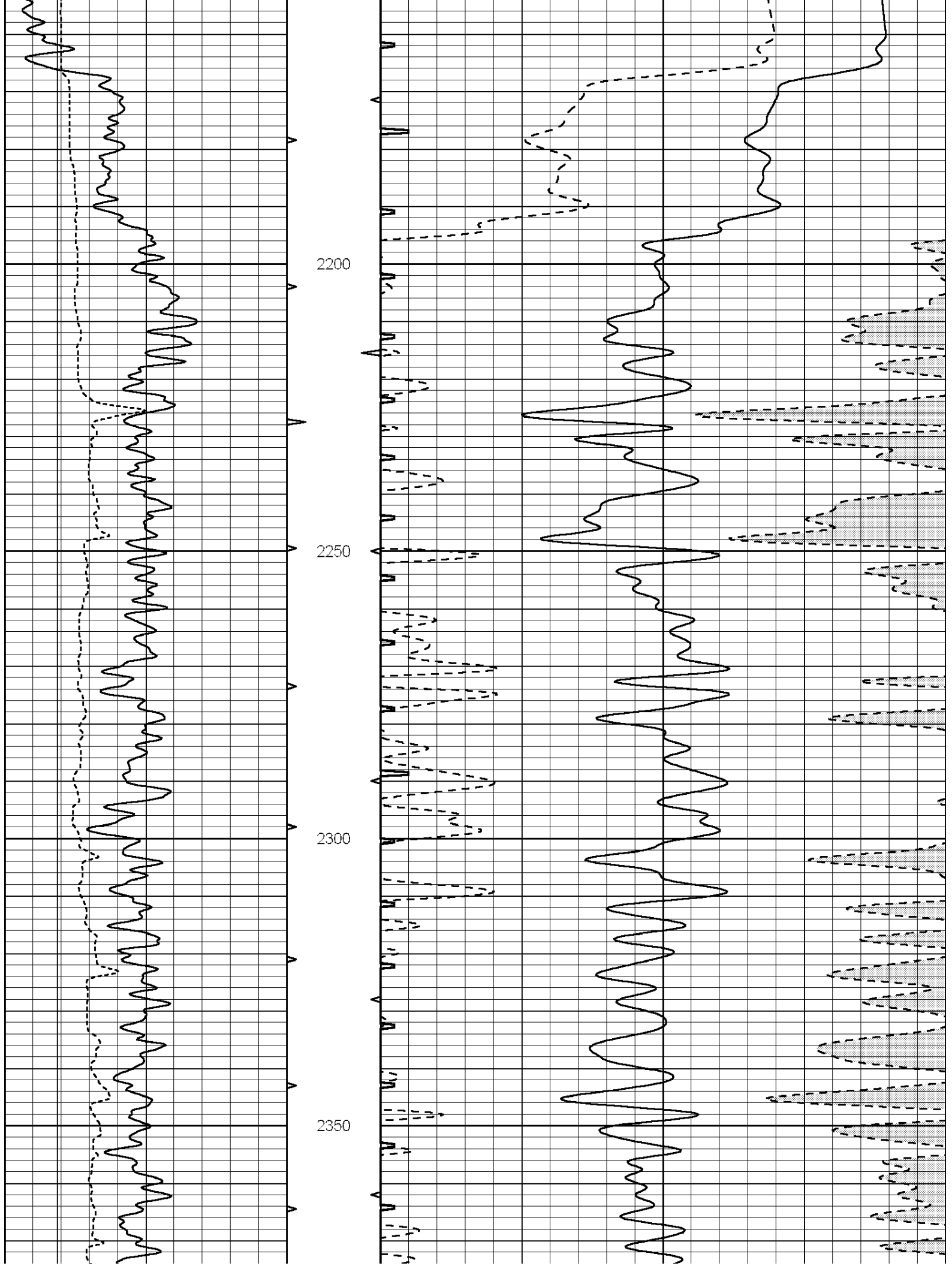
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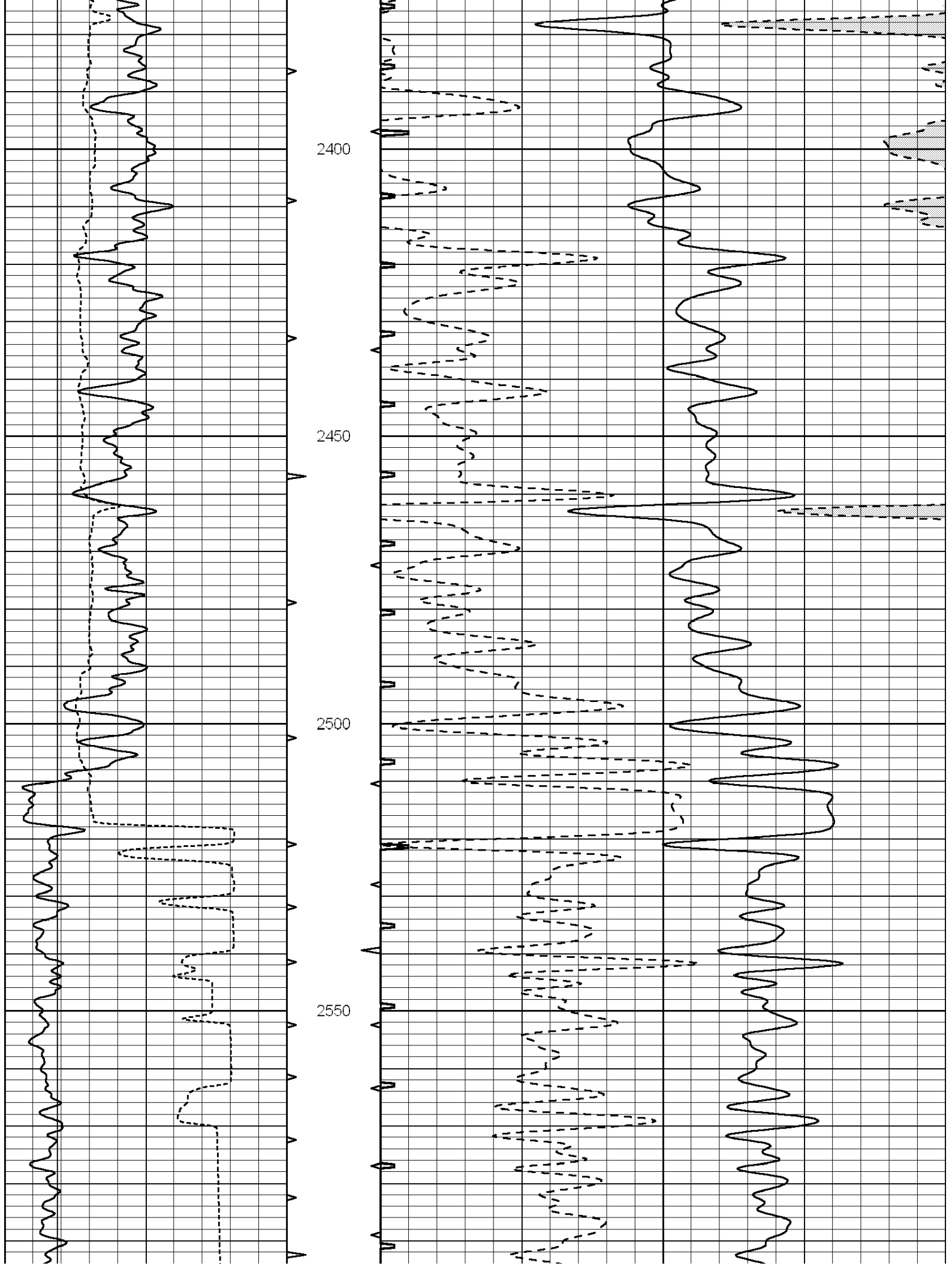
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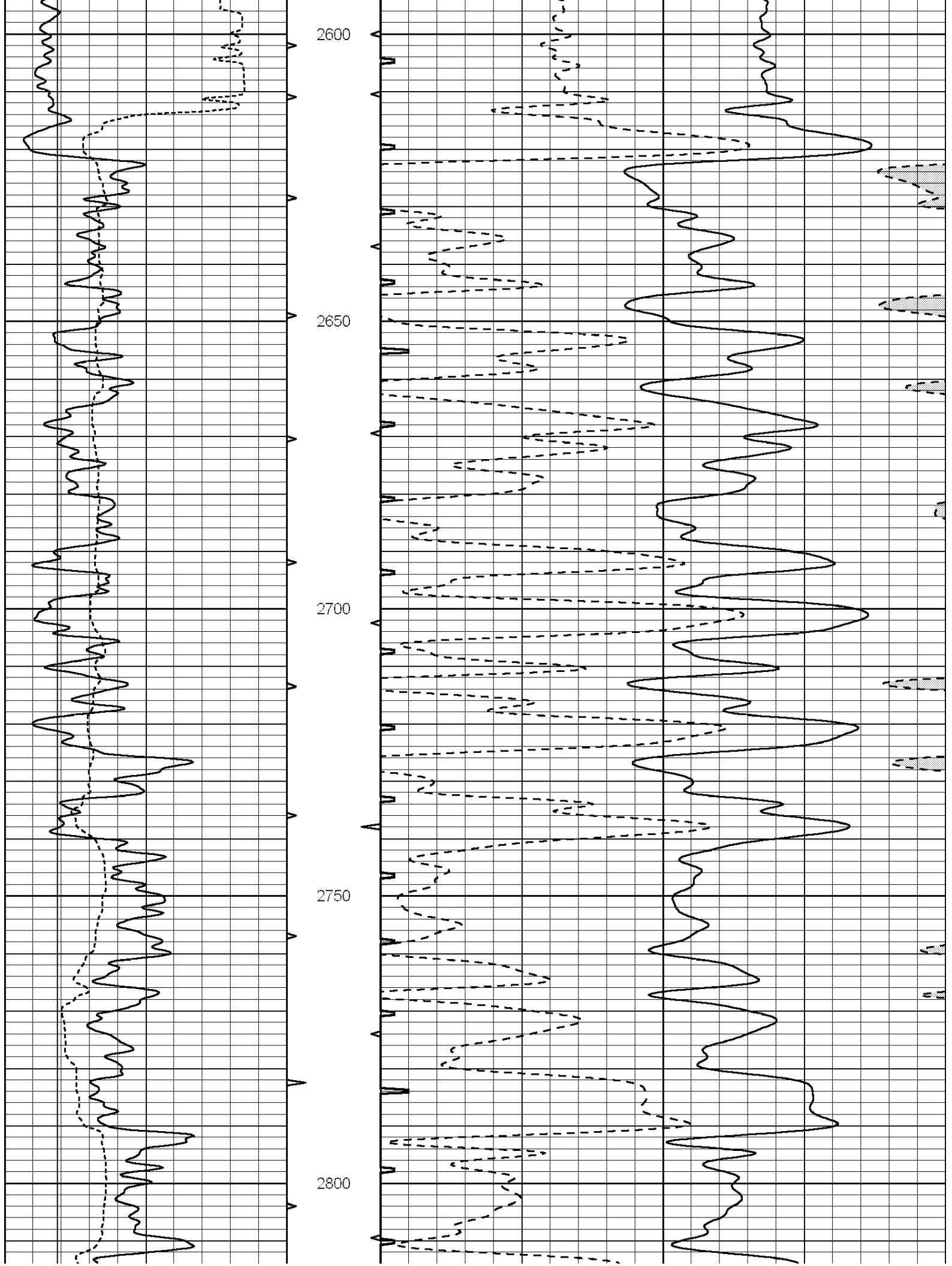
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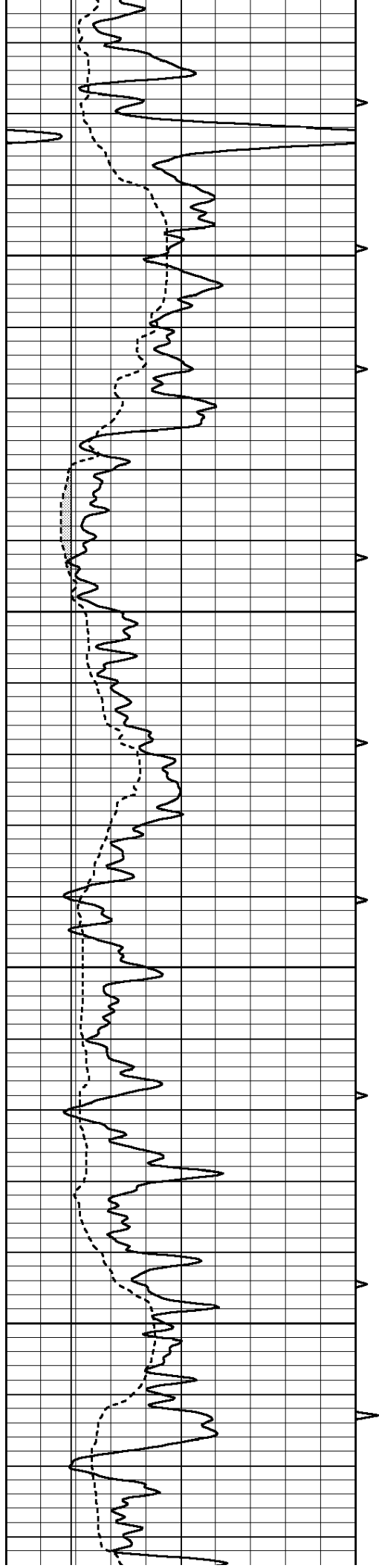










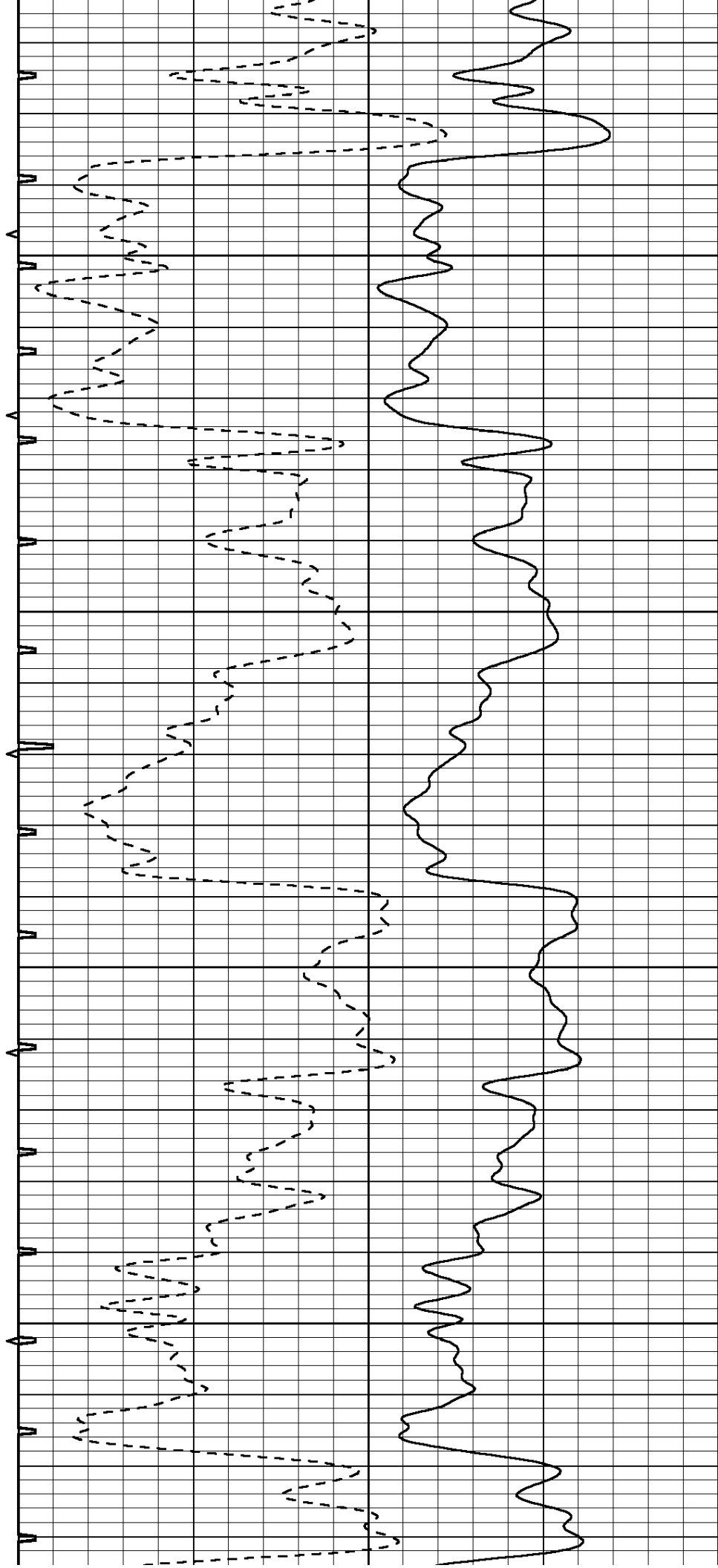


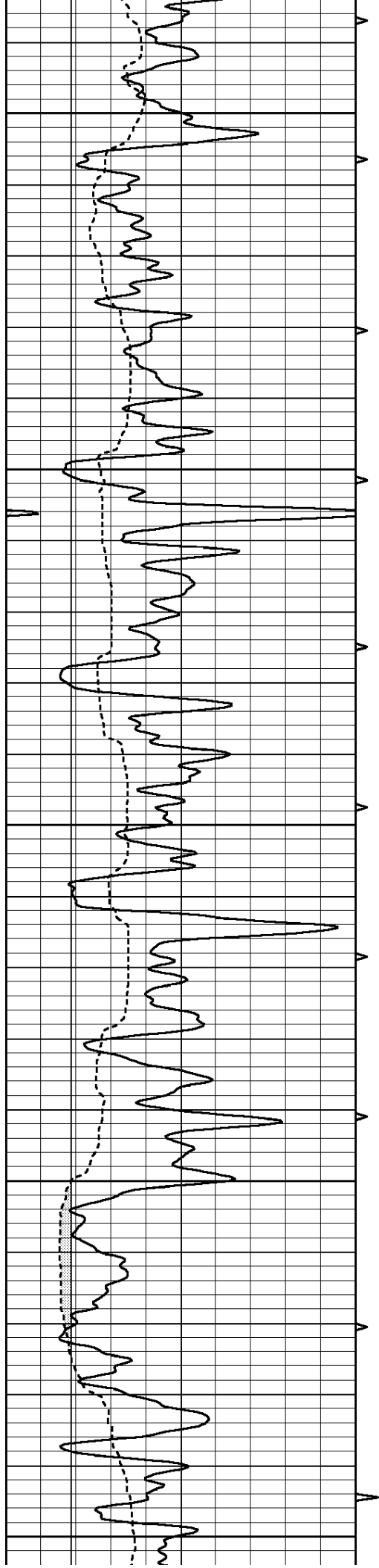
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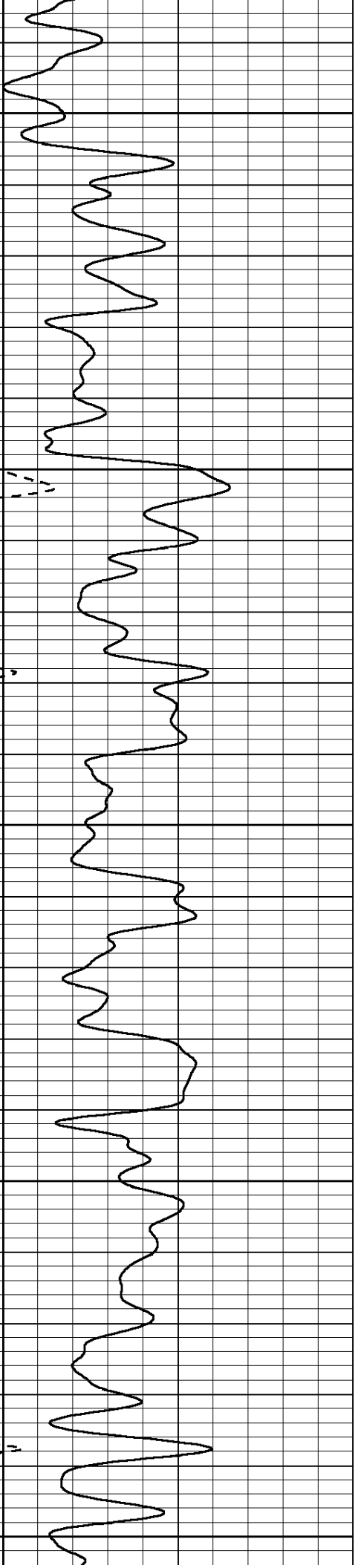
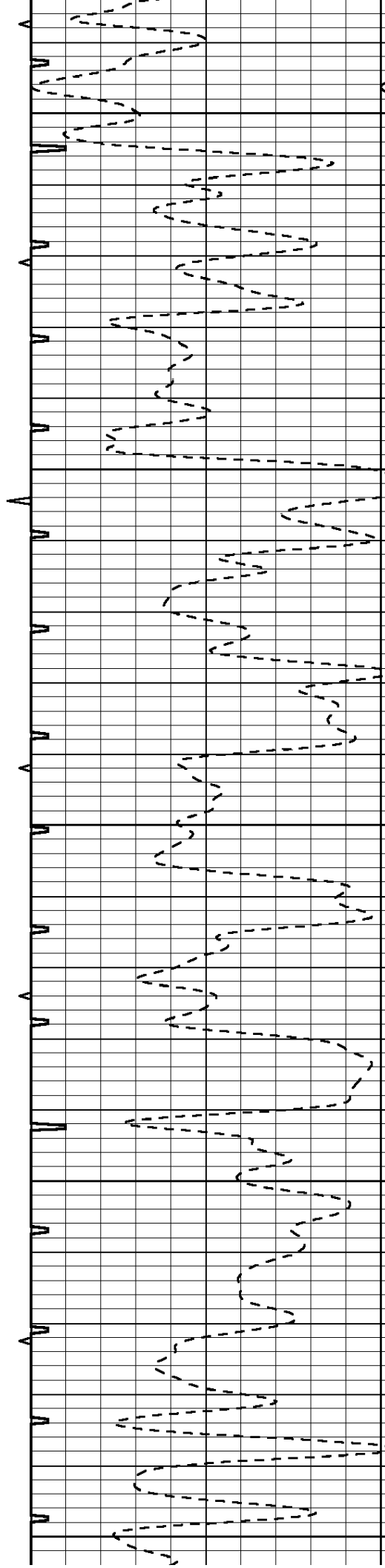
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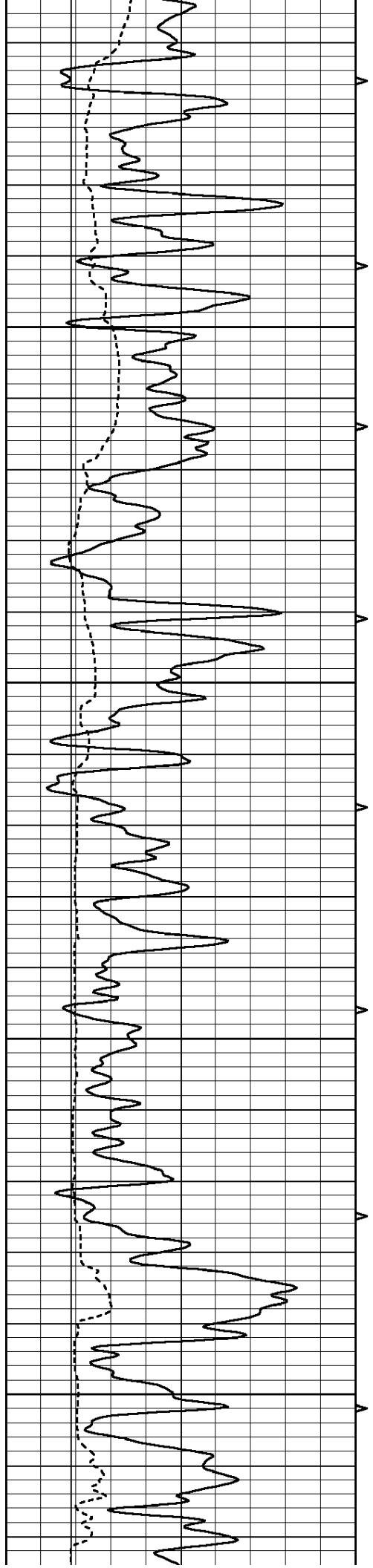
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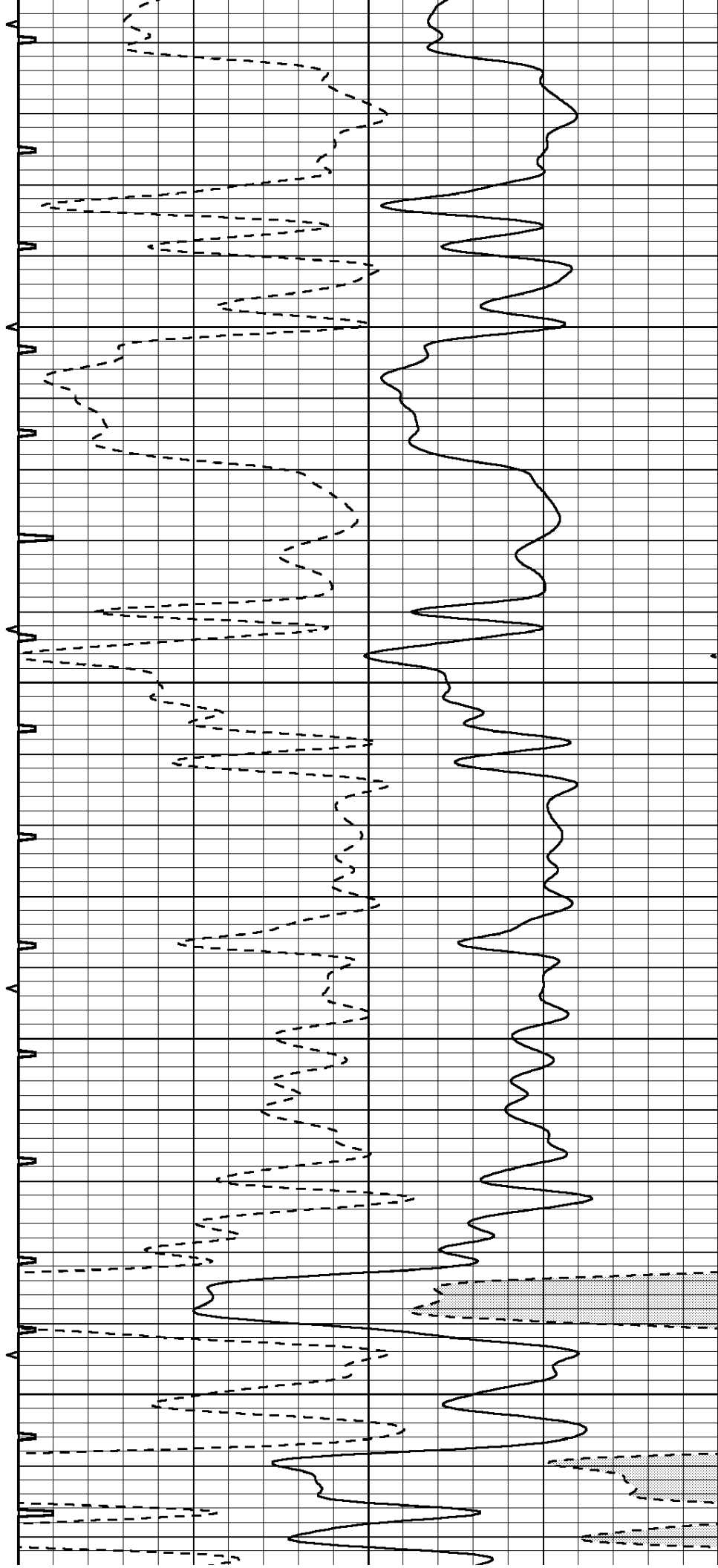


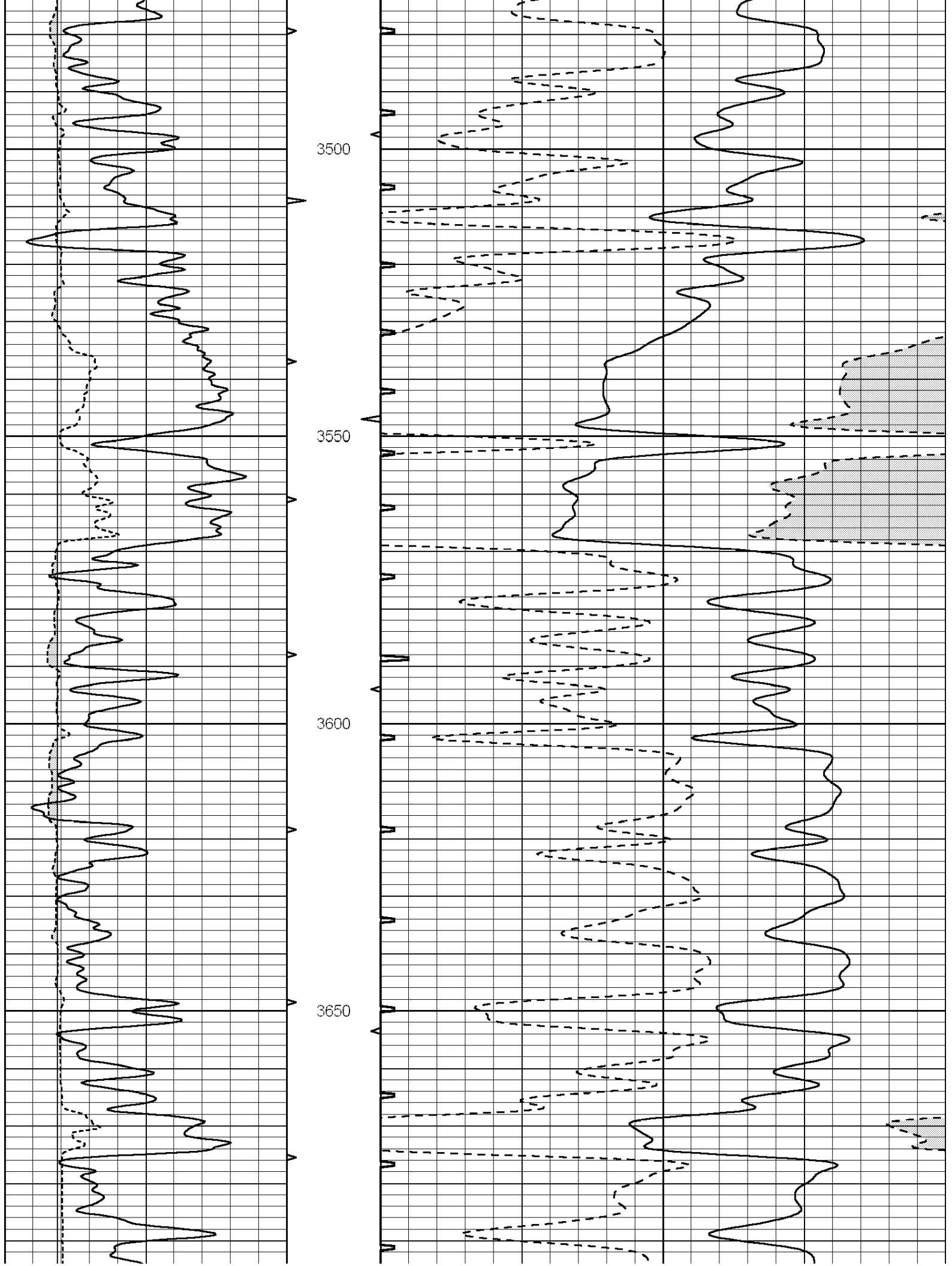
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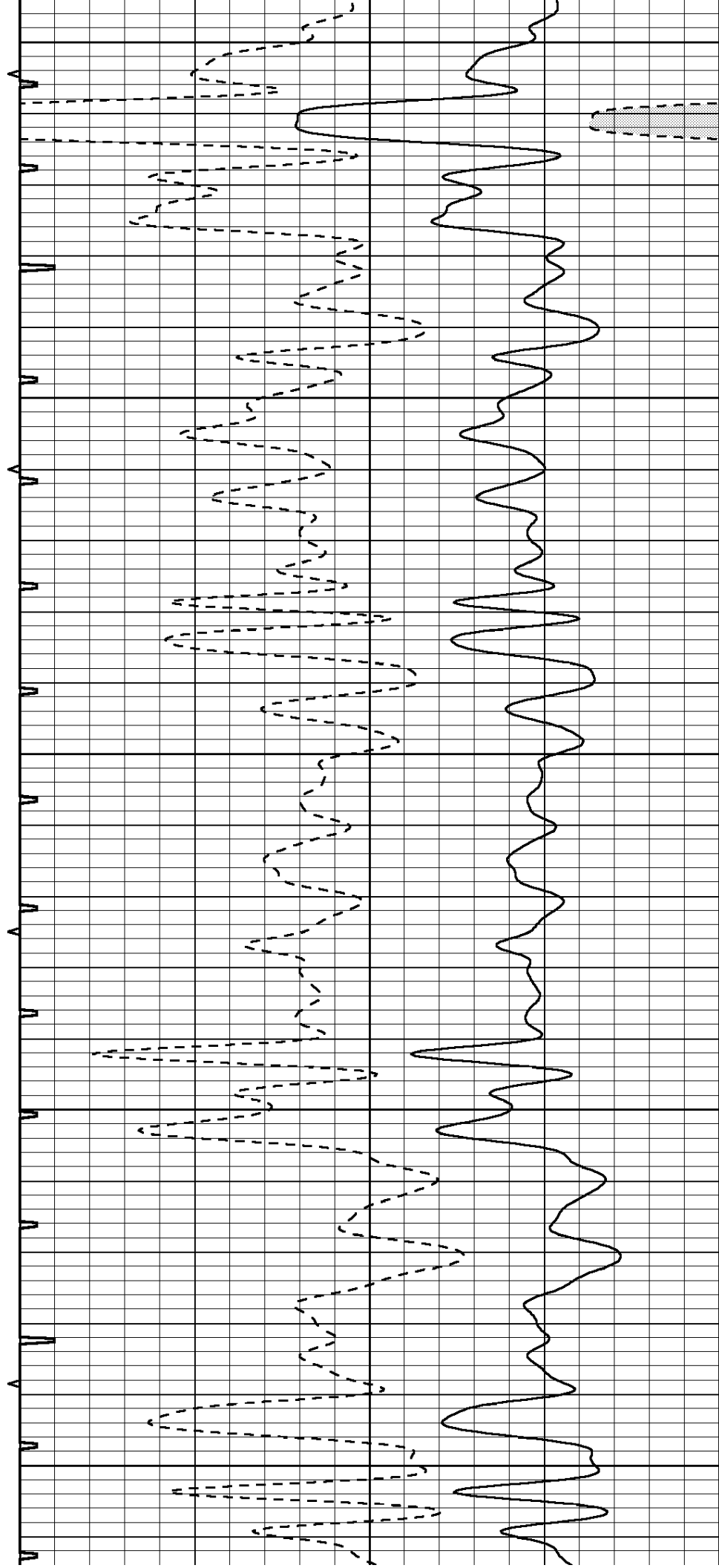
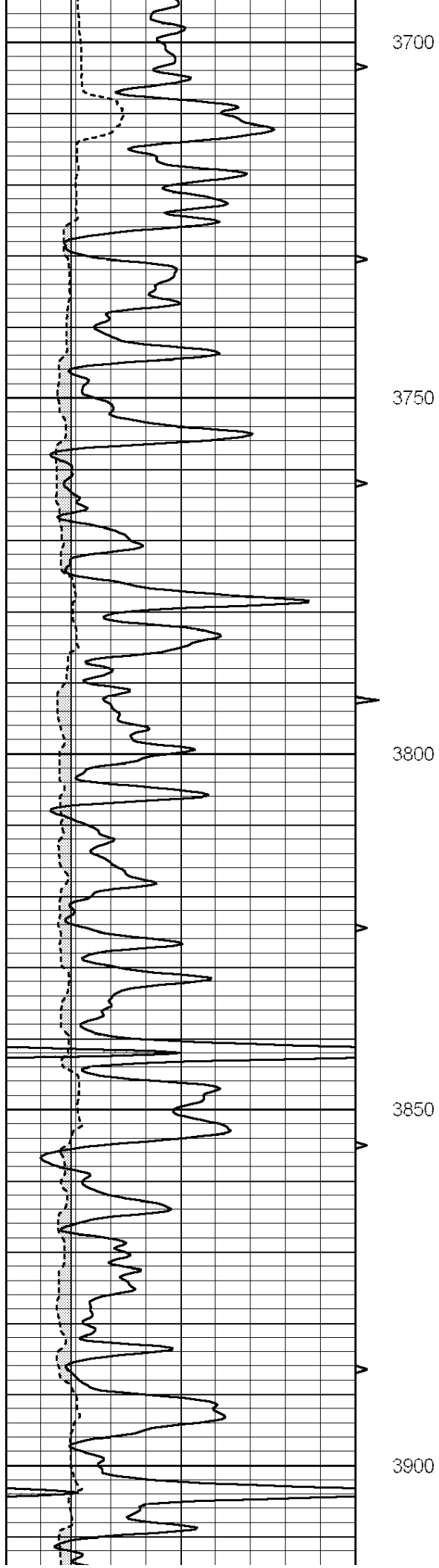
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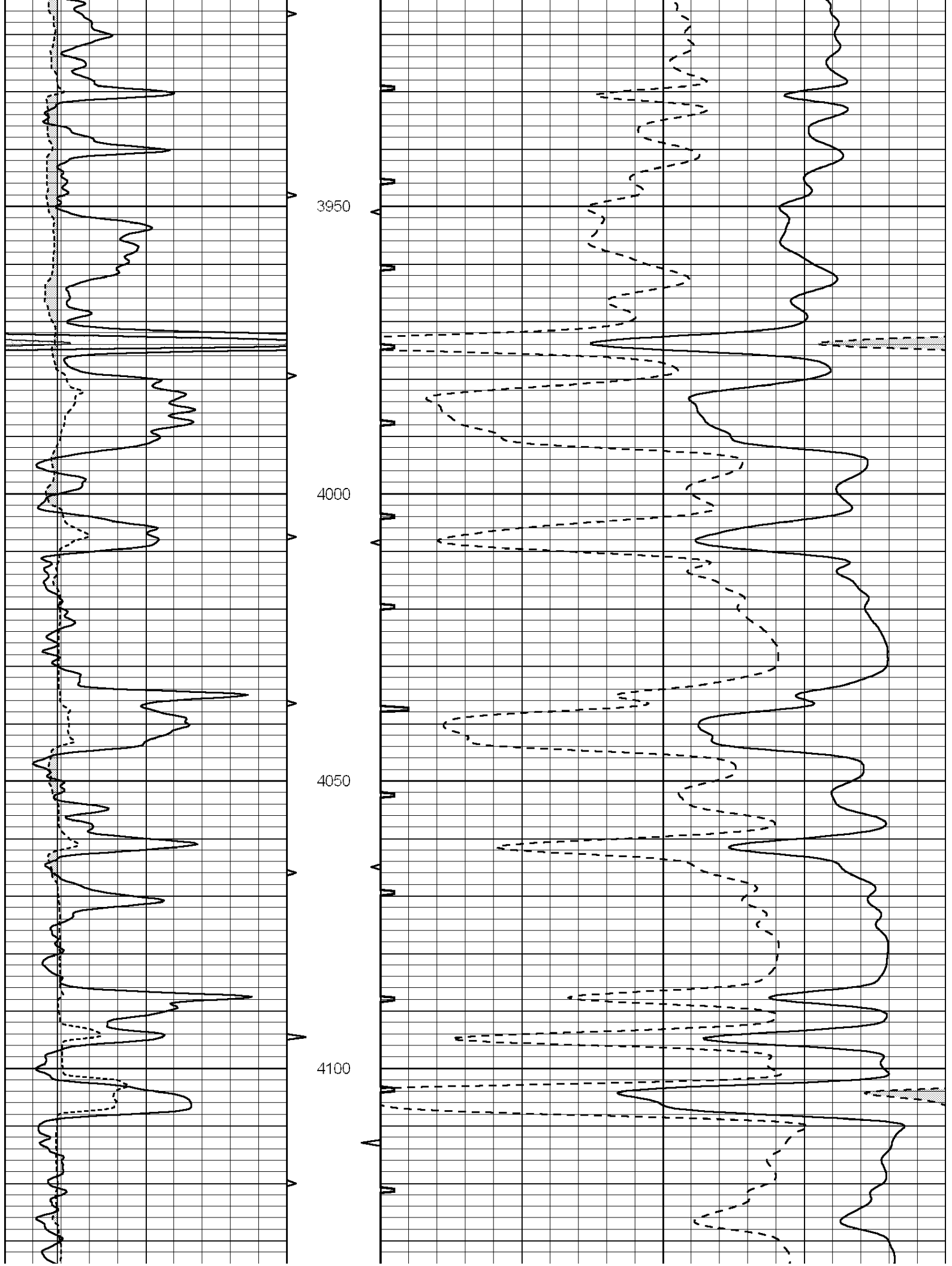
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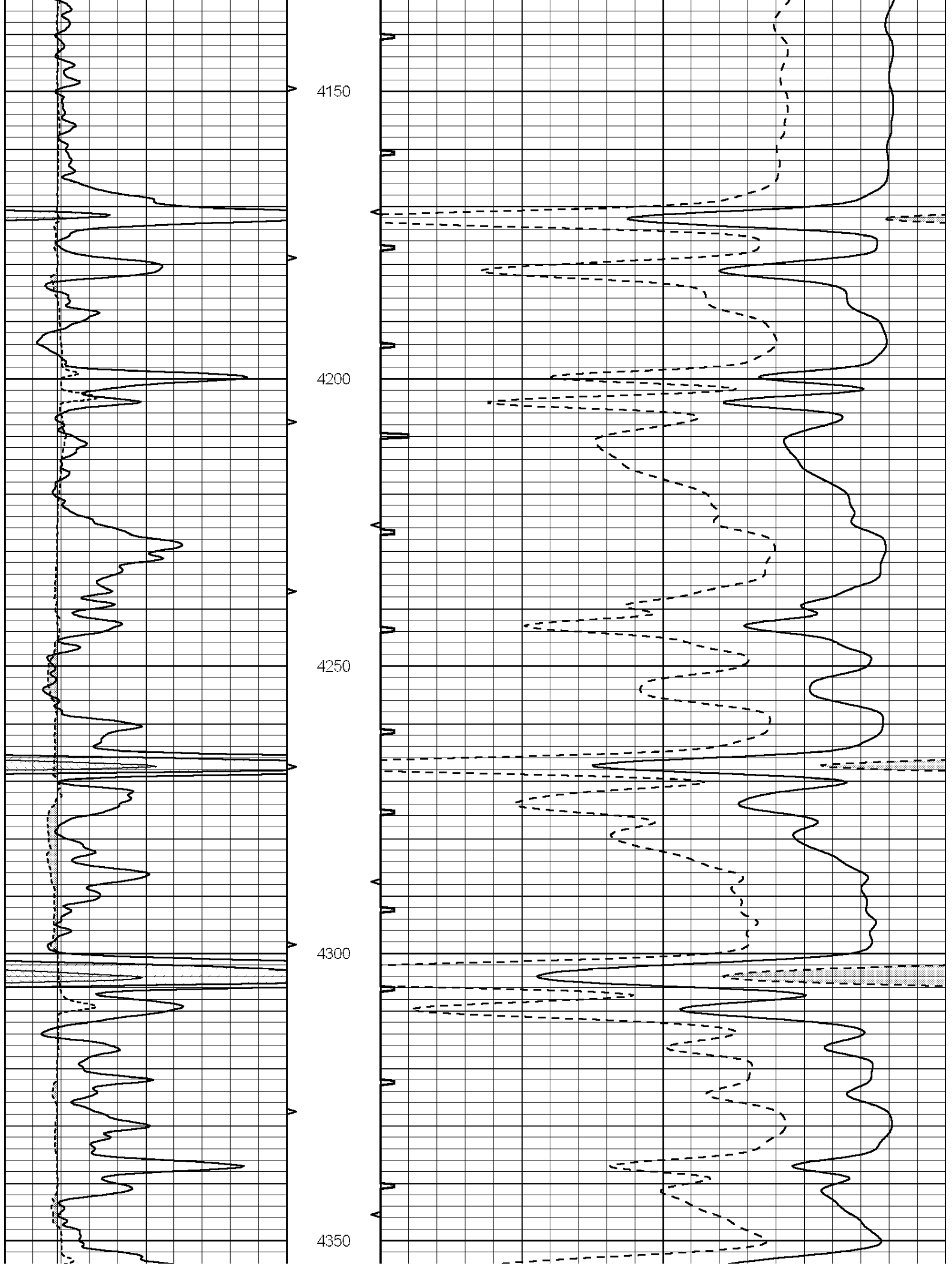
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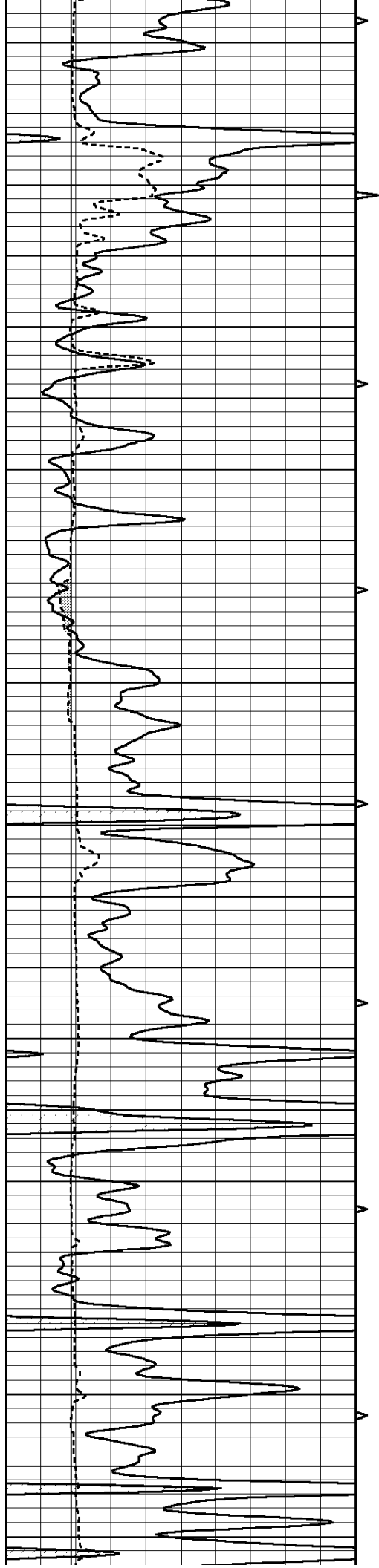










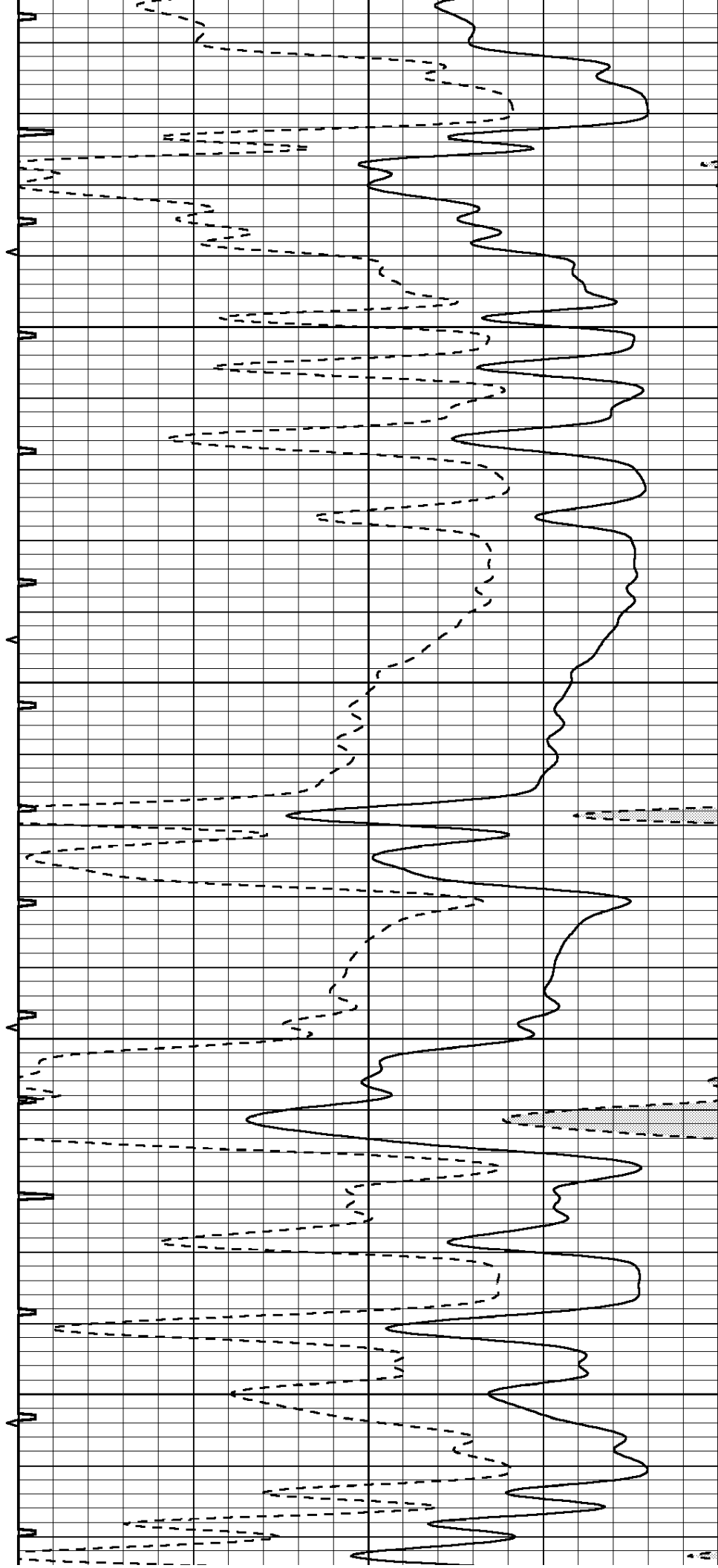


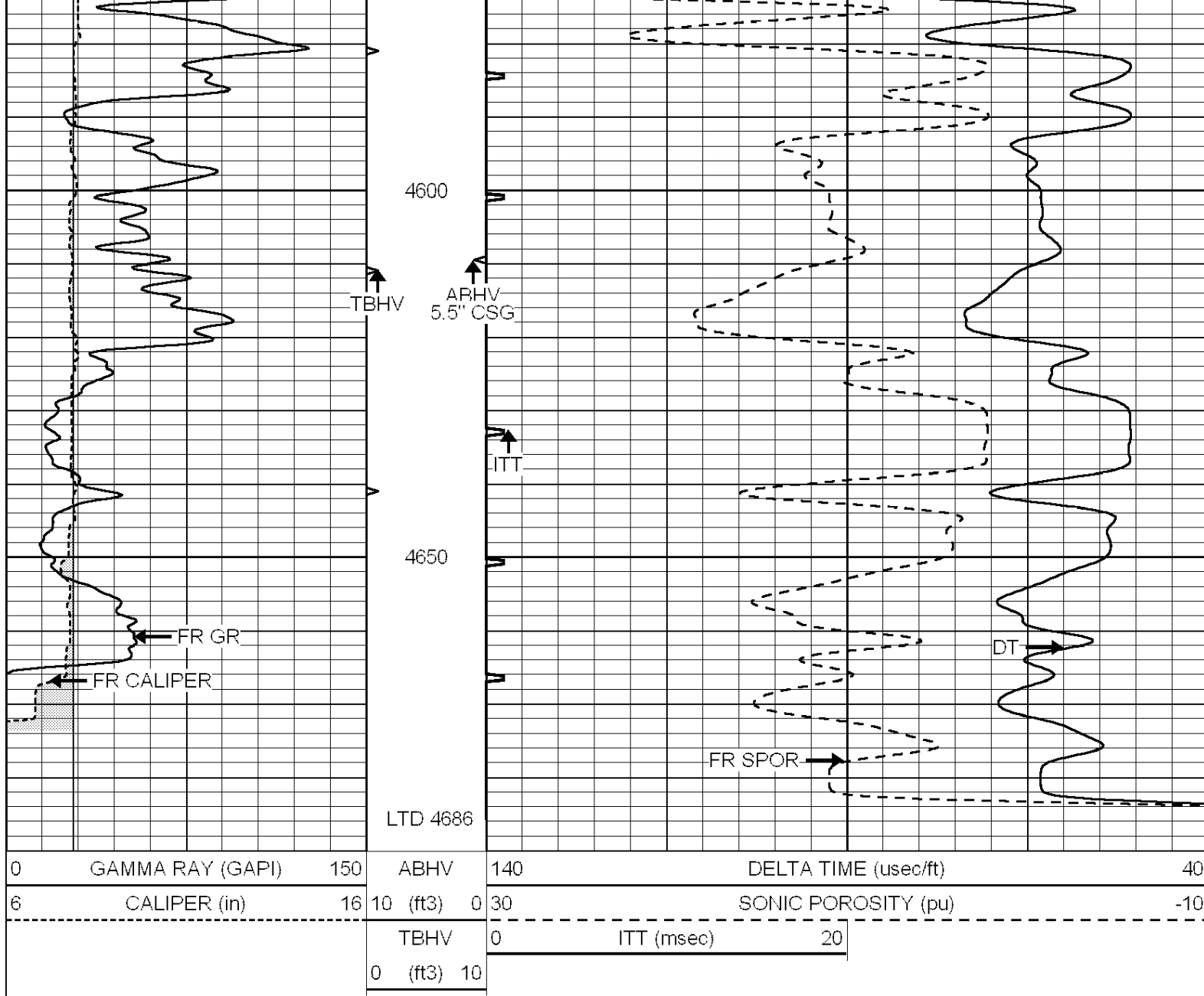
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SUPERIOR
Hays,
Kansas

REPEAT SECTION

Database File: 005931ddn.db
 Dataset Pathname: pass5.3
 Presentation Format: _slt
 Dataset Creation: Sat Oct 09 02:39:54 2010 by Calc Open-Cased 090629
 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)
			TBHV	0	ITT (msec)	20
			0 (ft3)	10		

