



**SUPERIOR**  
**Hays,**  
**Kansas**

# SONIC LOG

Company		MULL DRILLING COMPANY, INC.	
Well		APC SCHERLER #1-15	
Field			
County		KIOWA	
State		COLORADO	
Location:		API # : 05-061-06855-0000	
Permanent Datum		GROUND LEVEL	Elevation 4117
Log Measured From		KELLY BUSHING 11' A.G.L.	
Drilling Measured From		KELLY BUSHING	
SEC 15 TWP 17S RGE 45W		Other Services CDL/CNL/PE DIL/MEL	
Date	4/5/11		
Run Number	TWO		
Depth Driller	5380		
Depth Logger	5382		
Bottom Logged Interval	5375		
Top Log Interval	300		
Casing Driller	8 5/8" @ 319		
Casing Logger	312		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 2300 PPM	
Density / Viscosity	9.0/49		
pH / Fluid Loss	10.5/8.0		
Source of Sample	FLOWLINE		
Rin @ Meas. Temp	1.20 @ 83F		
Rmf @ Meas. Temp	0.90 @ 83F		
Rmc @ Meas. Temp	1.44 @ 83F		
Source of Rmf / Rmc	MEASURED		
Rin @ BHT	0.78 @ 128F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	128F		
Equipment Number	680		
Location	HAYS, KS.		
Recorded By	JEFF GRONEMEG		
Witnessed By	PHIL ASKEY		

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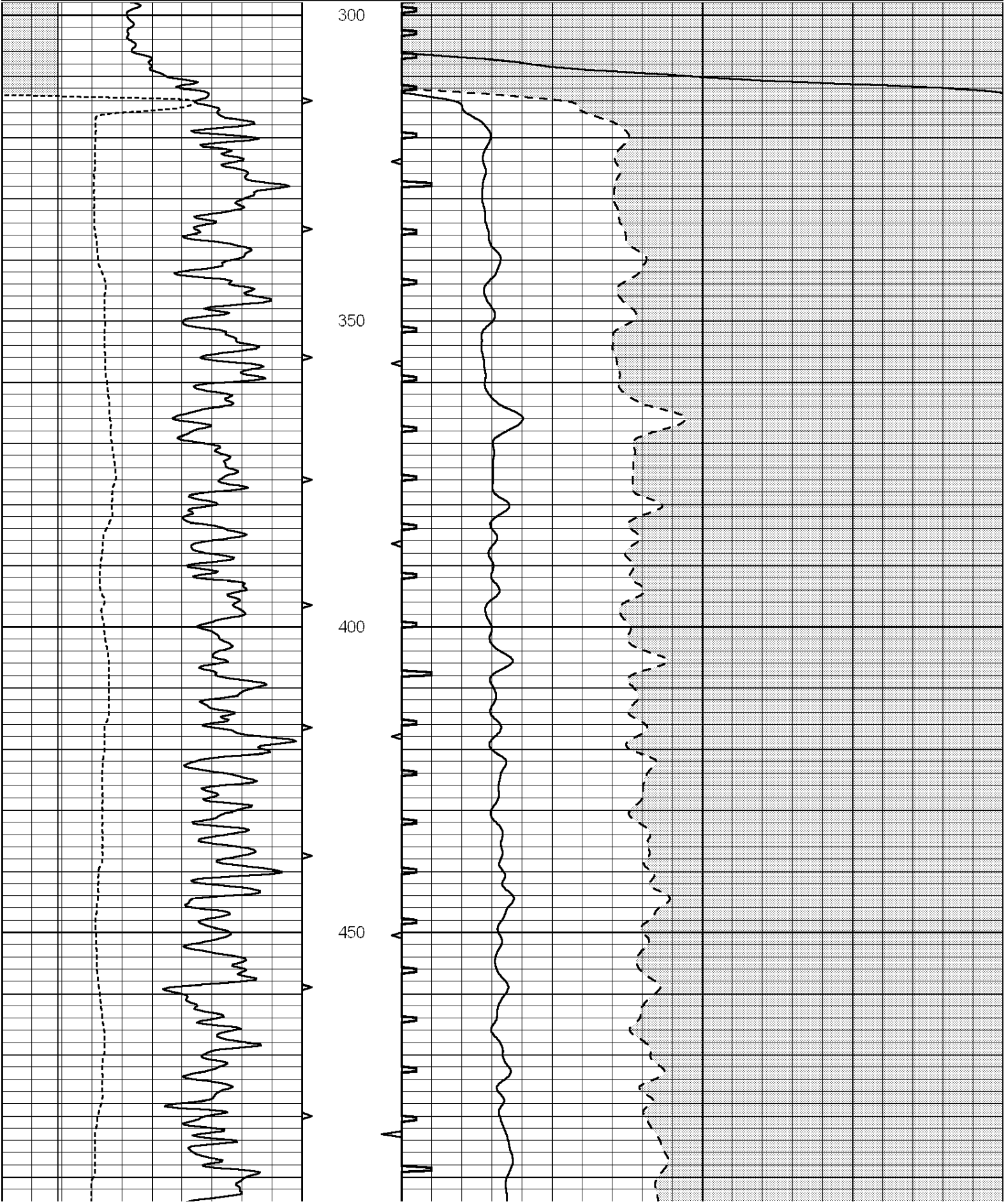
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

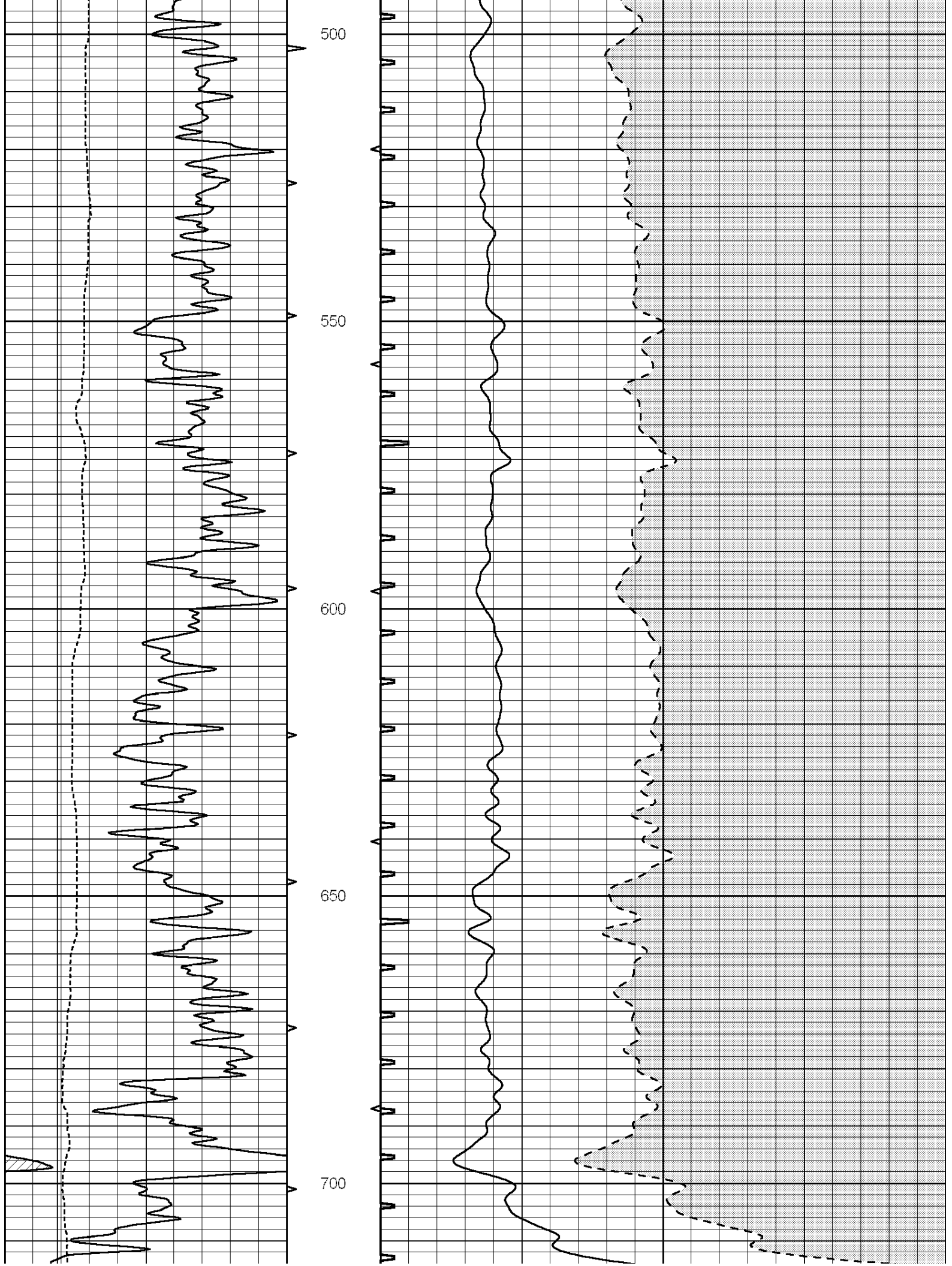
## Comments

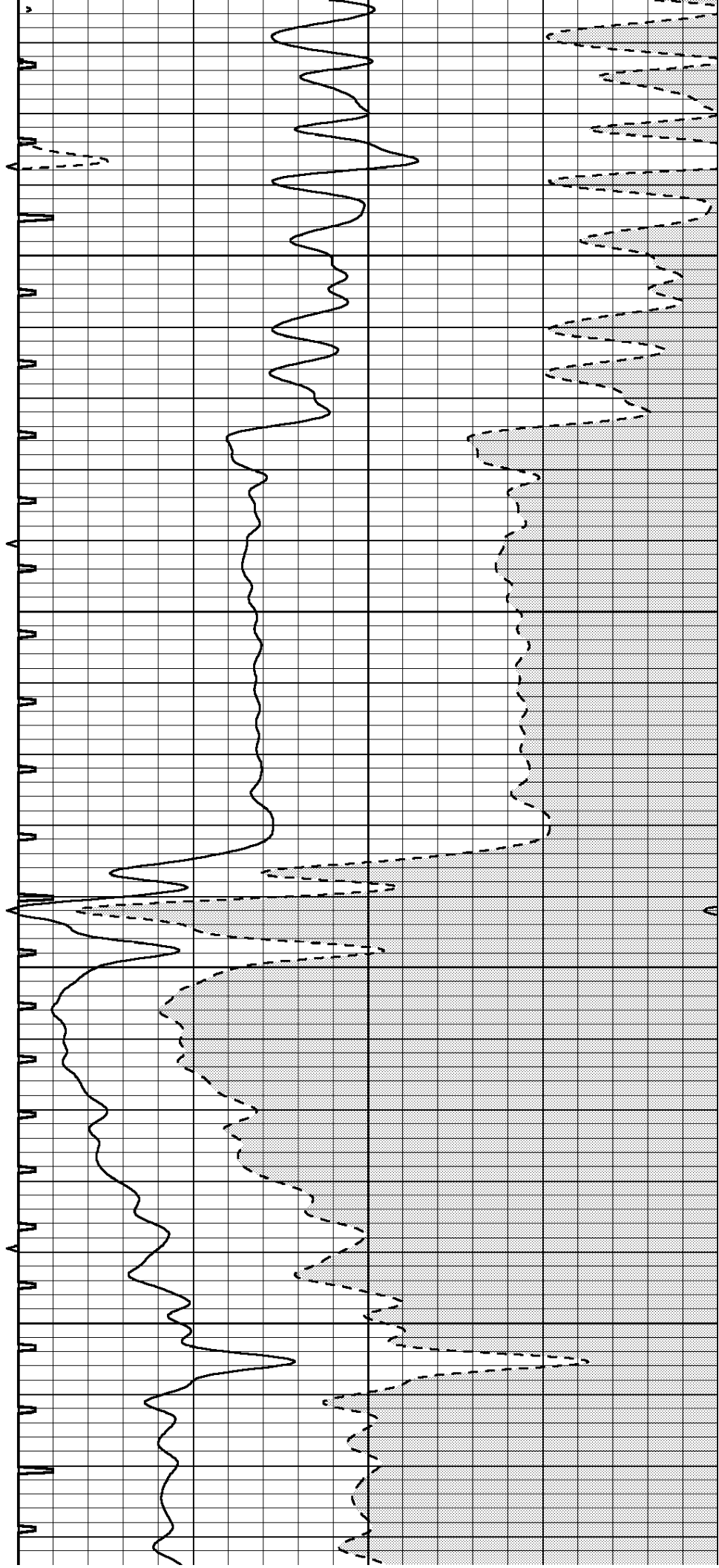
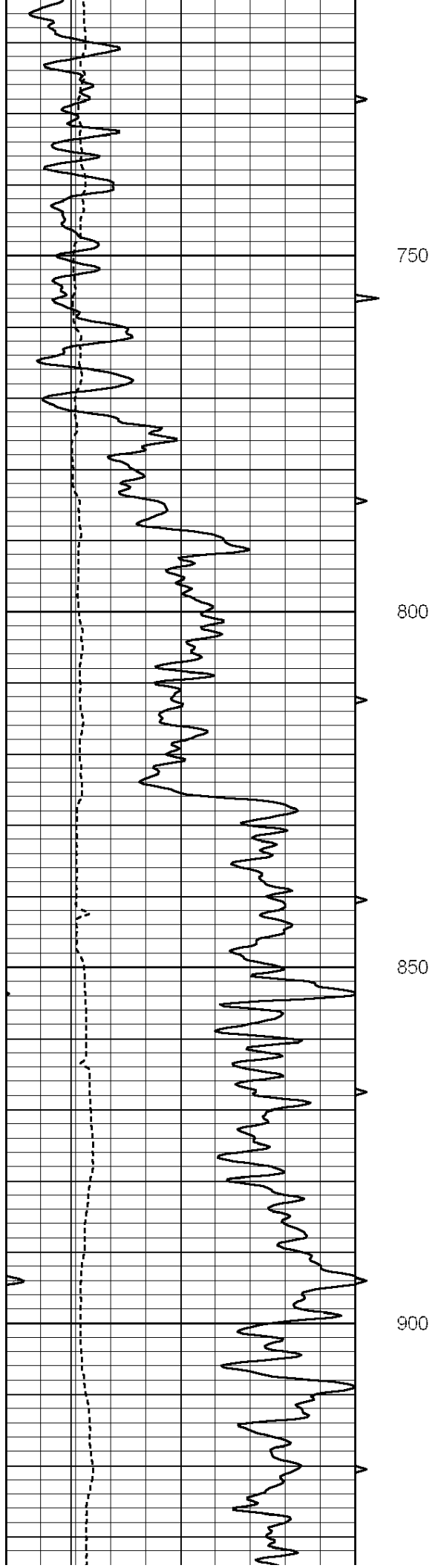
THANK YOU FOR USING SUPERIOR WELL SERVICE (785) 628-6395  
DIRECTIONS  
BRANDON, CO - 9.3 MILES NORTH - .3 MILES WEST - SOUTH INTO

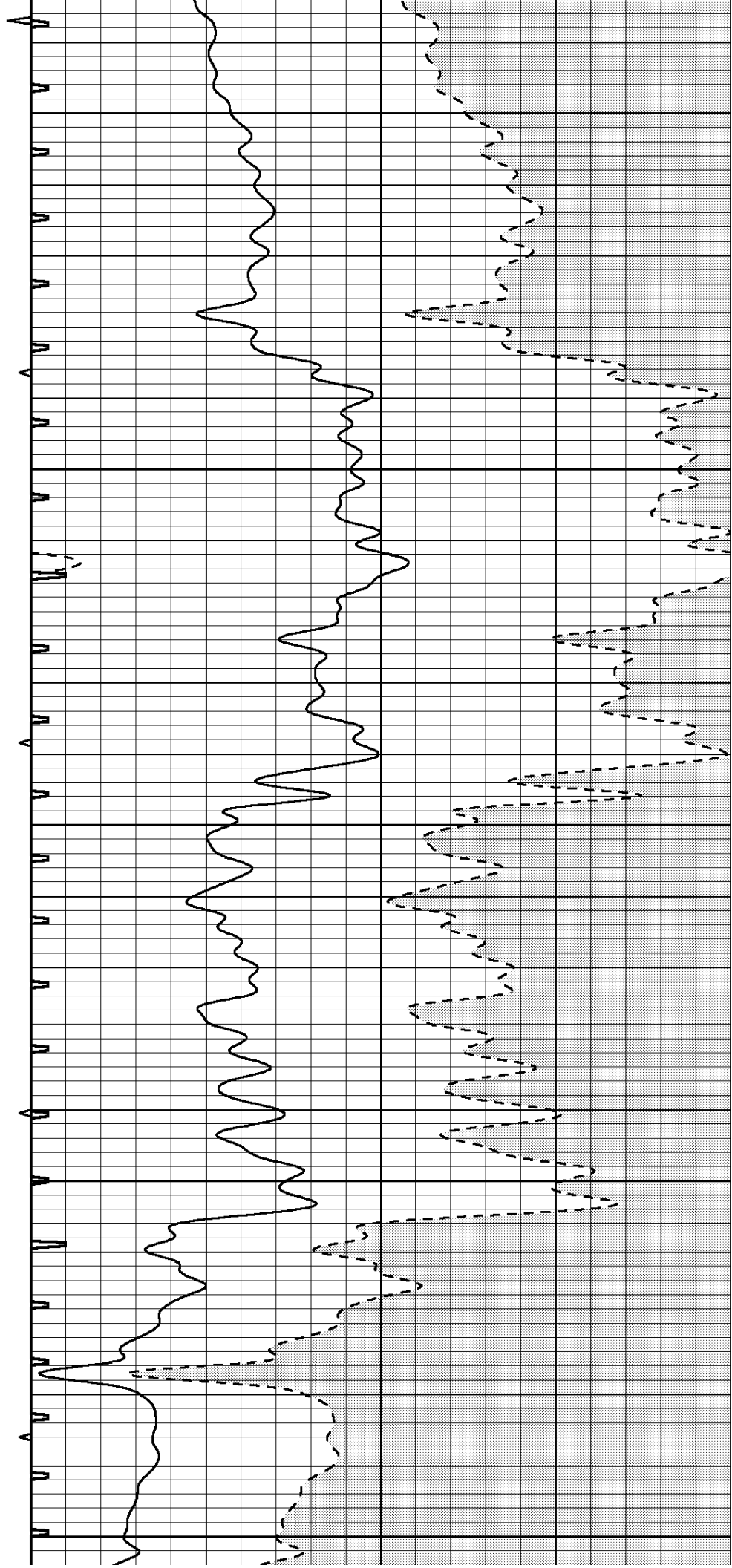
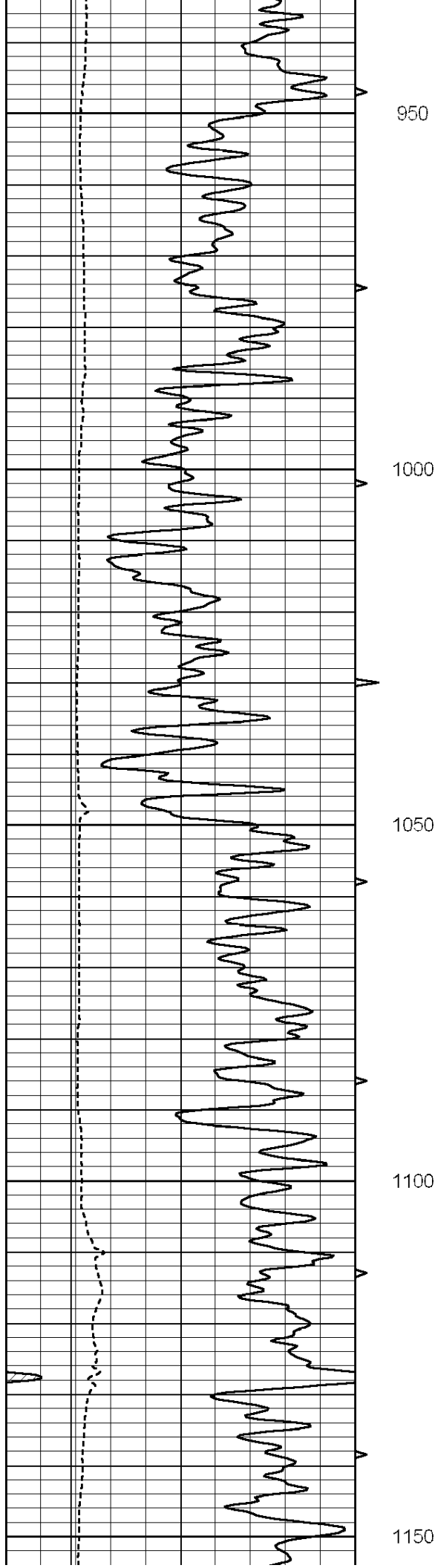
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Dataset Creation: Tue Apr 05 09:06:48 2011 by Log Open-Cased 090629  
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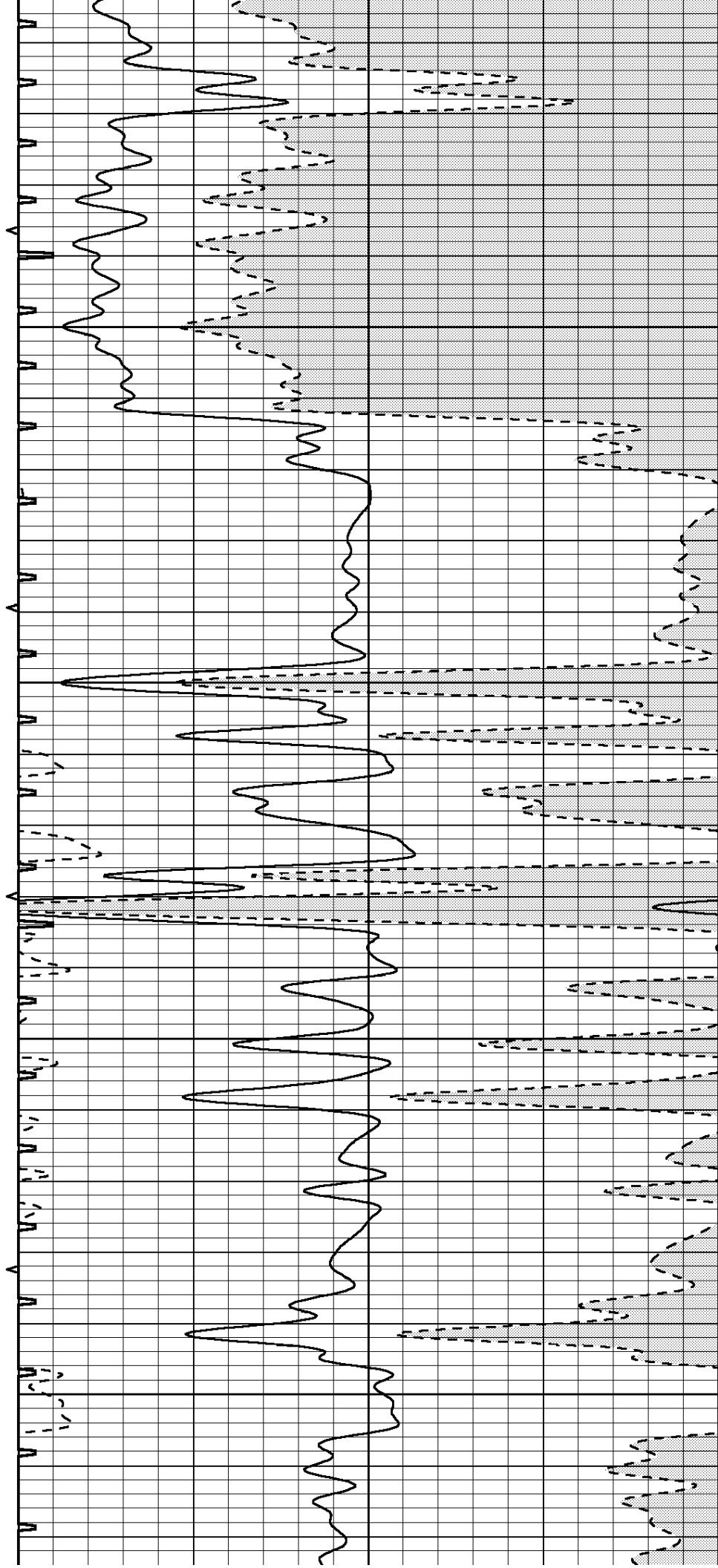
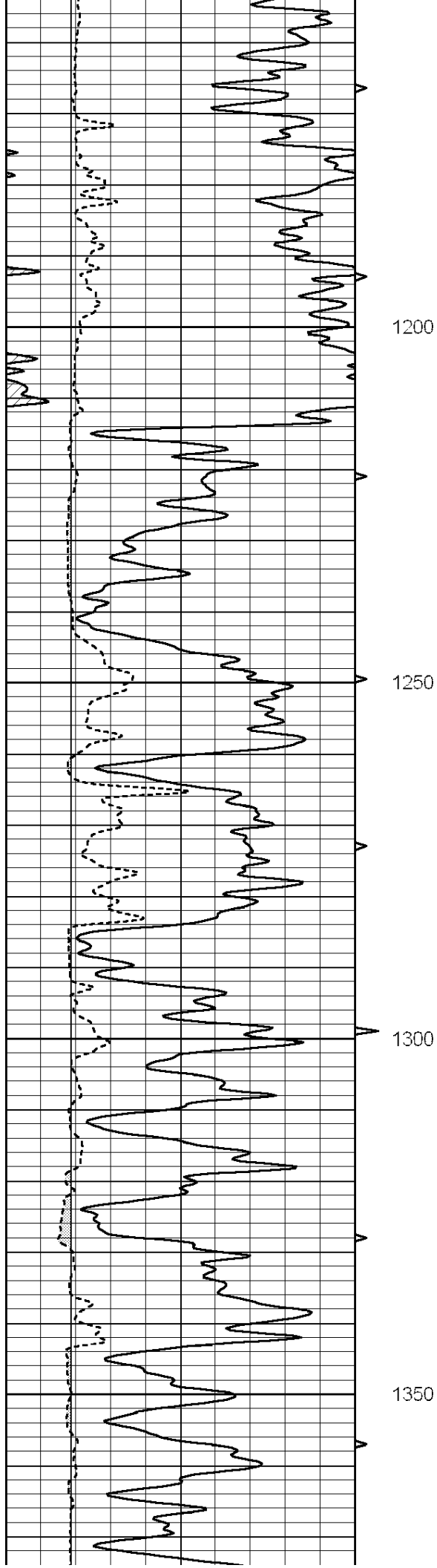
Charted by:		Depth (m) not scaled 1:2.15				
0	GAMMA RAY (GAPI)	150	ABHV	140	DELTA TIME (usec/ft)	40
6	CALIPER (in)	16	10 (ft3) 0	30	SONIC POROSITY (pu)	-10
			TBHV	0	ITT (msec)	20
			0 (ft3) 10			

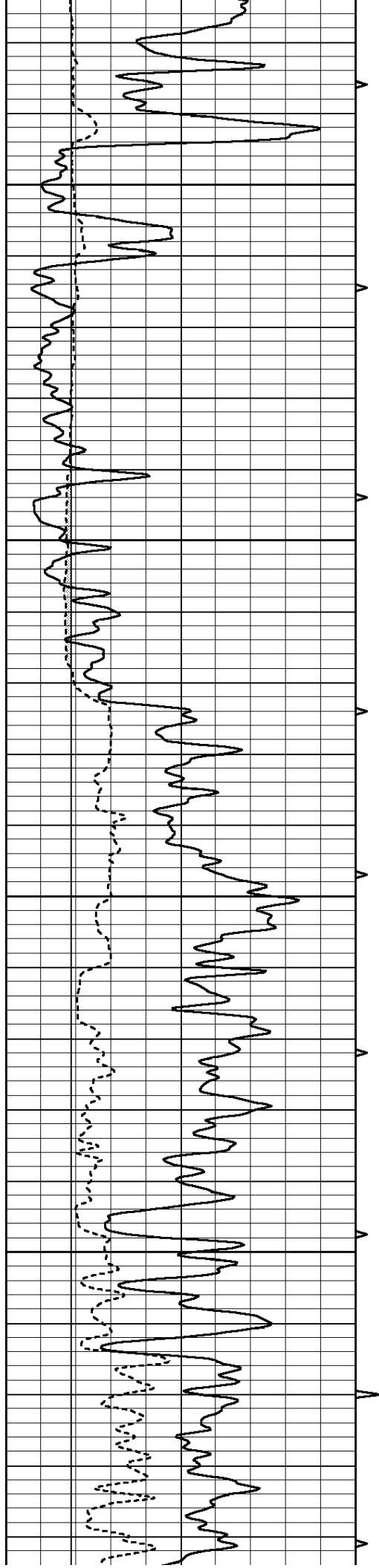










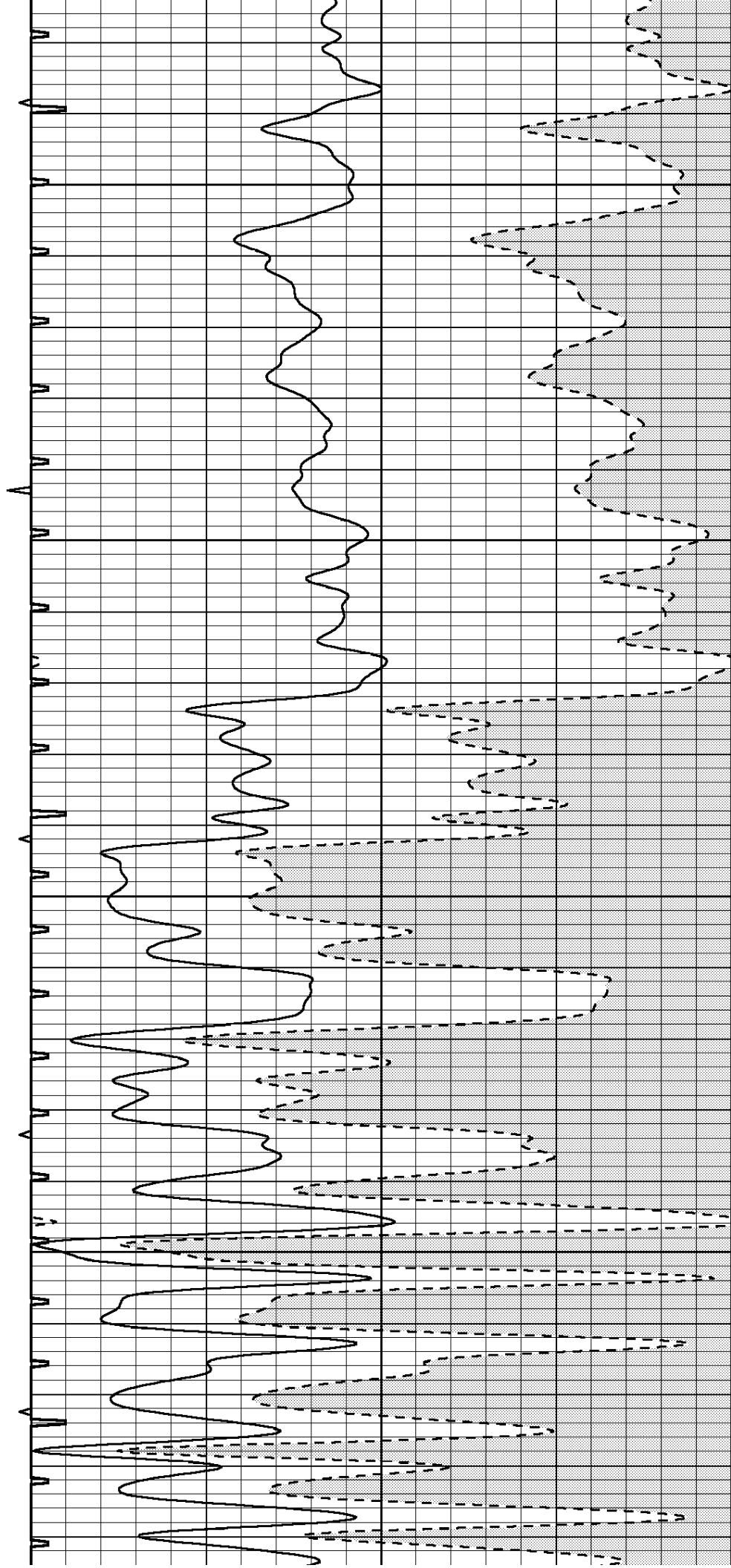


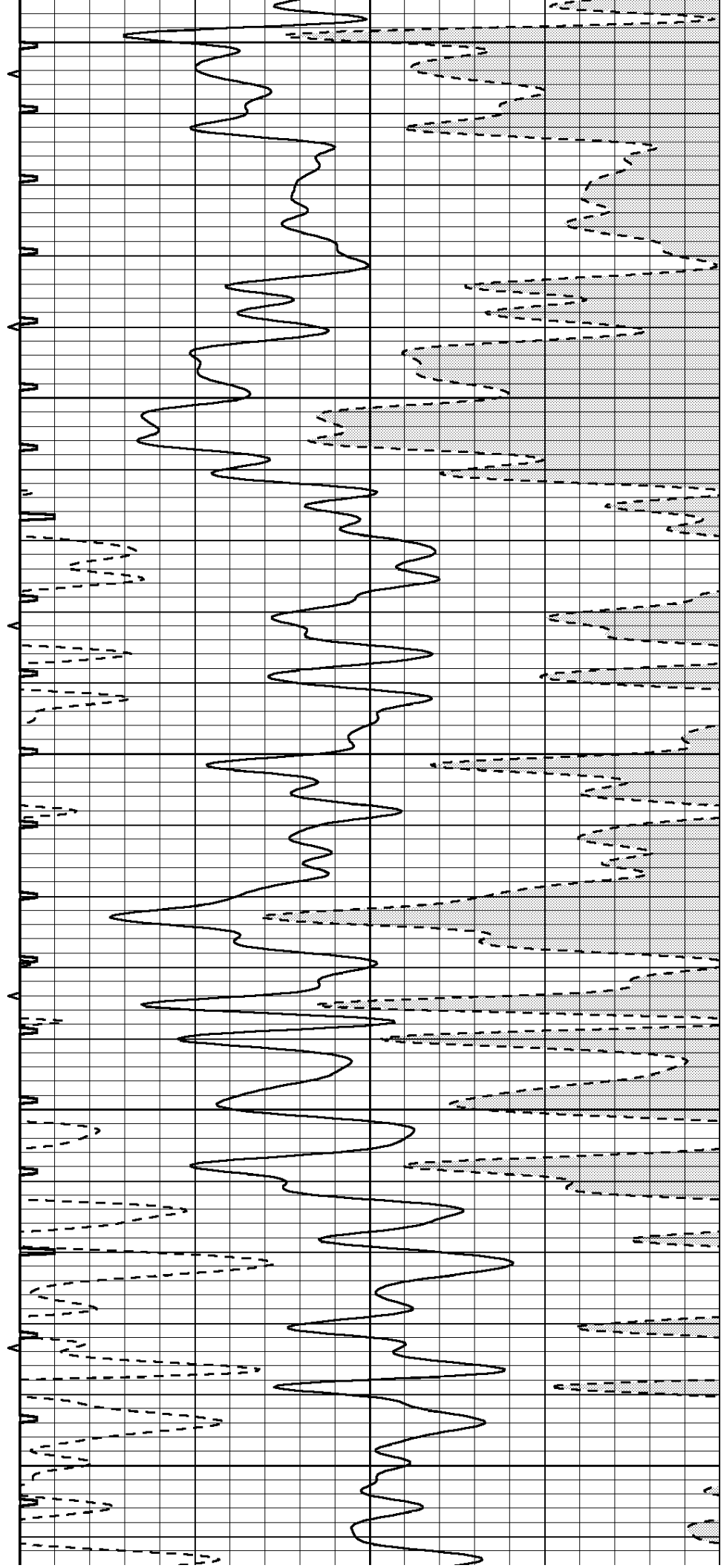
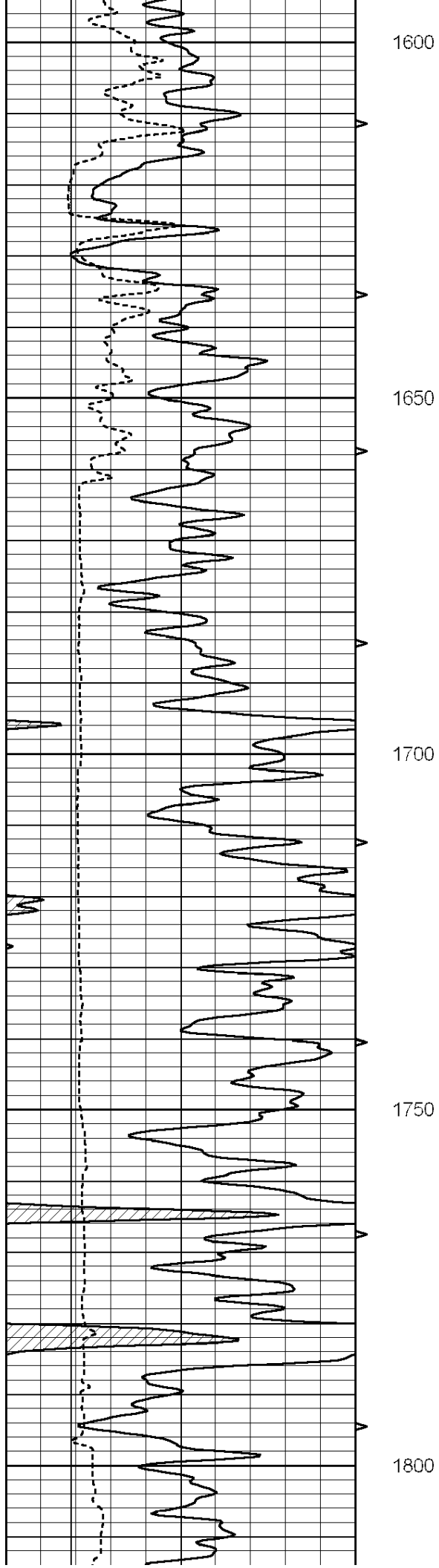
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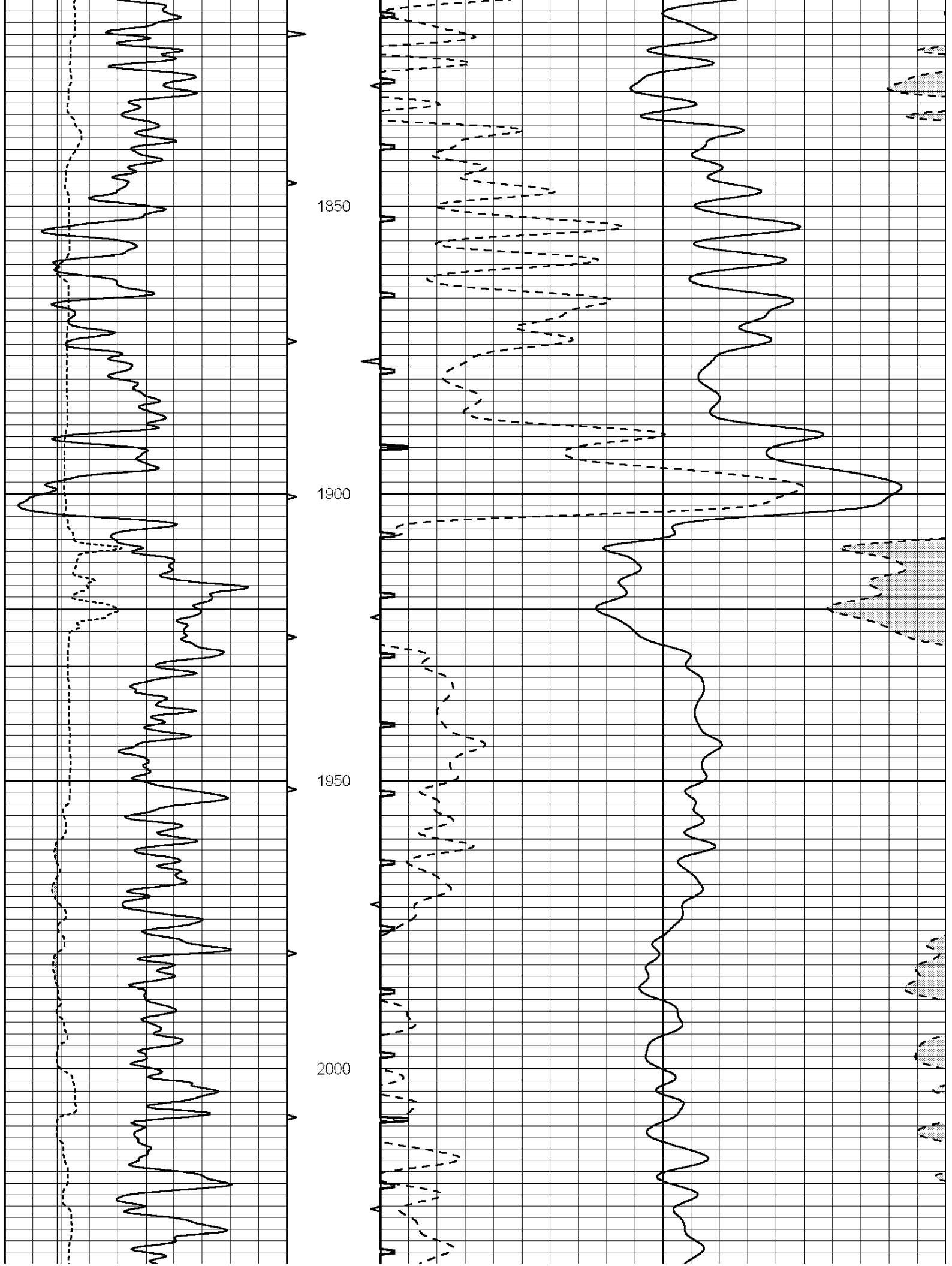
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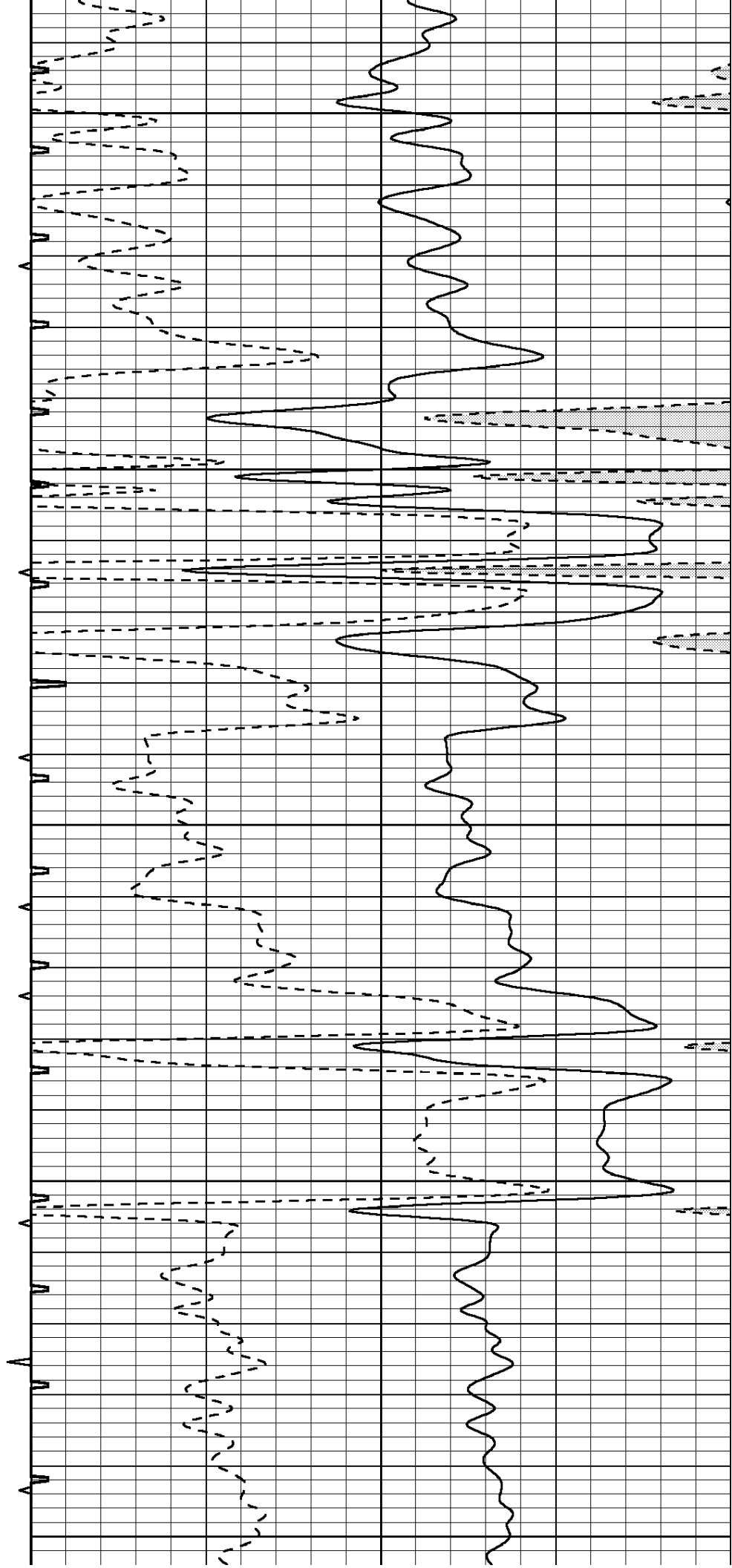
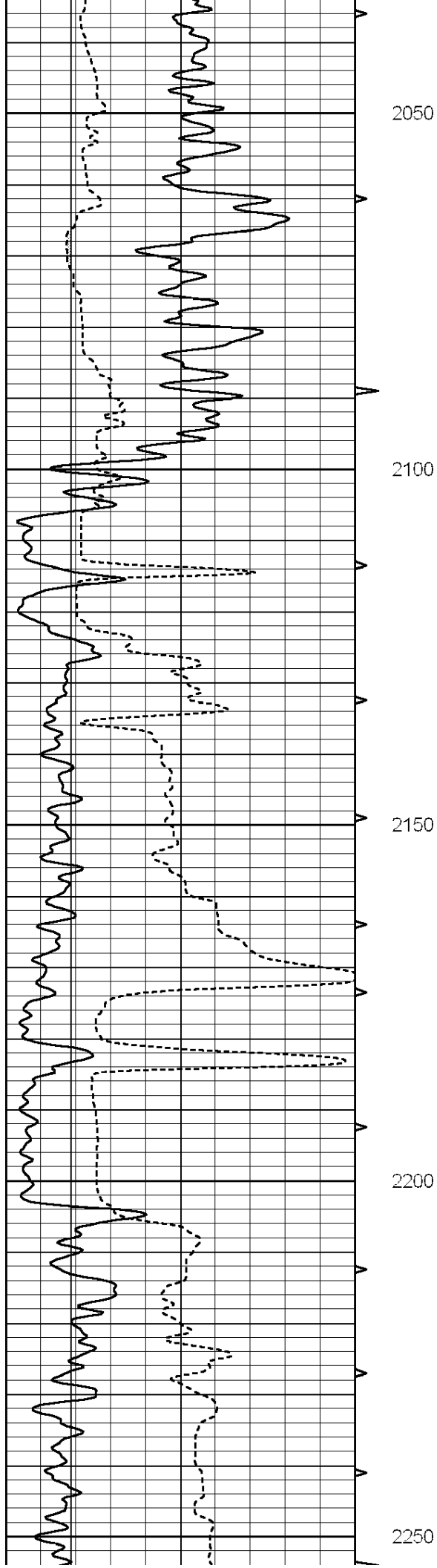
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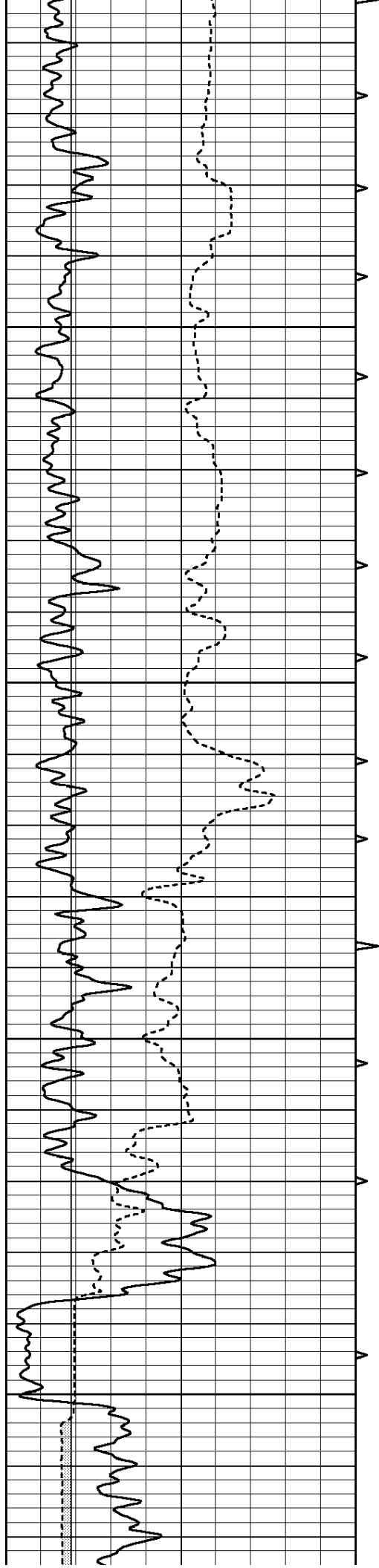










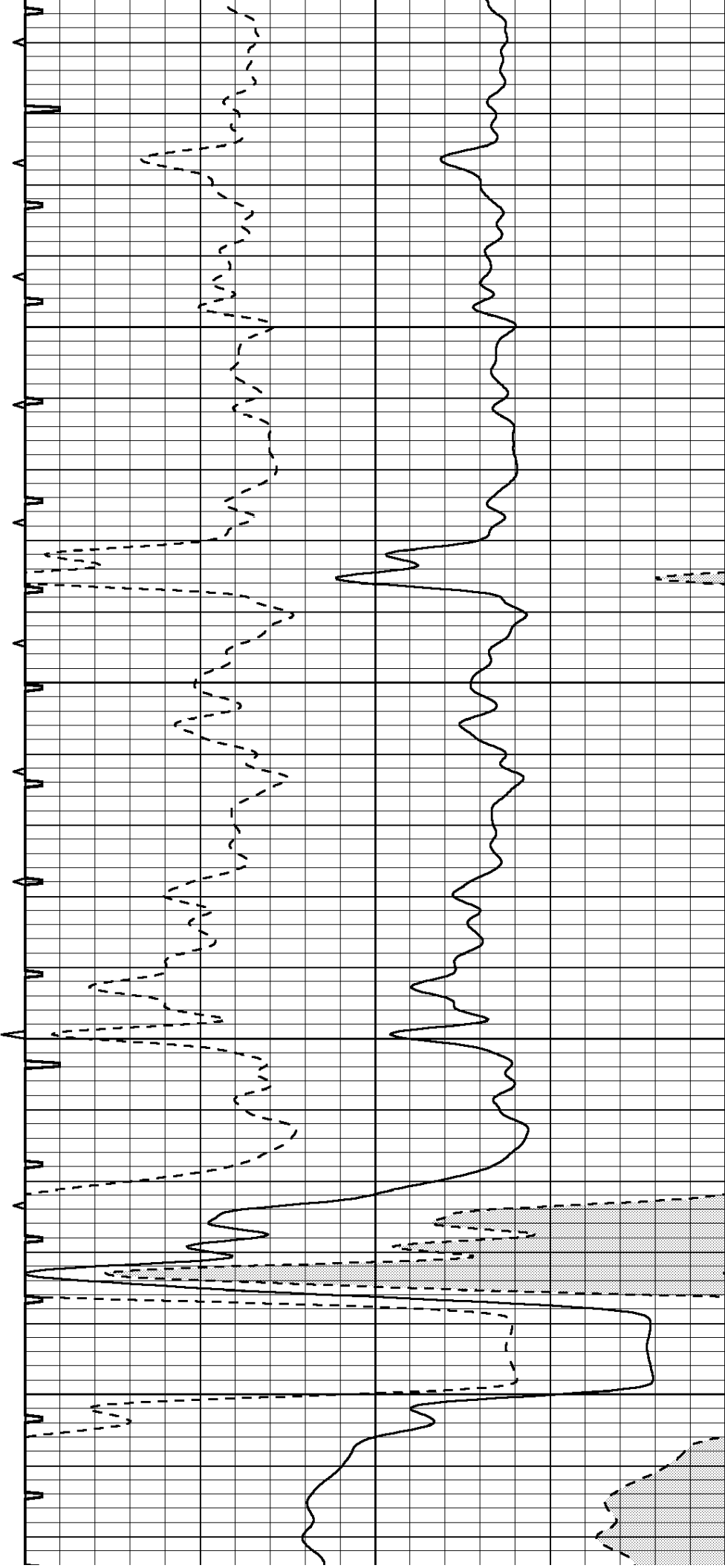


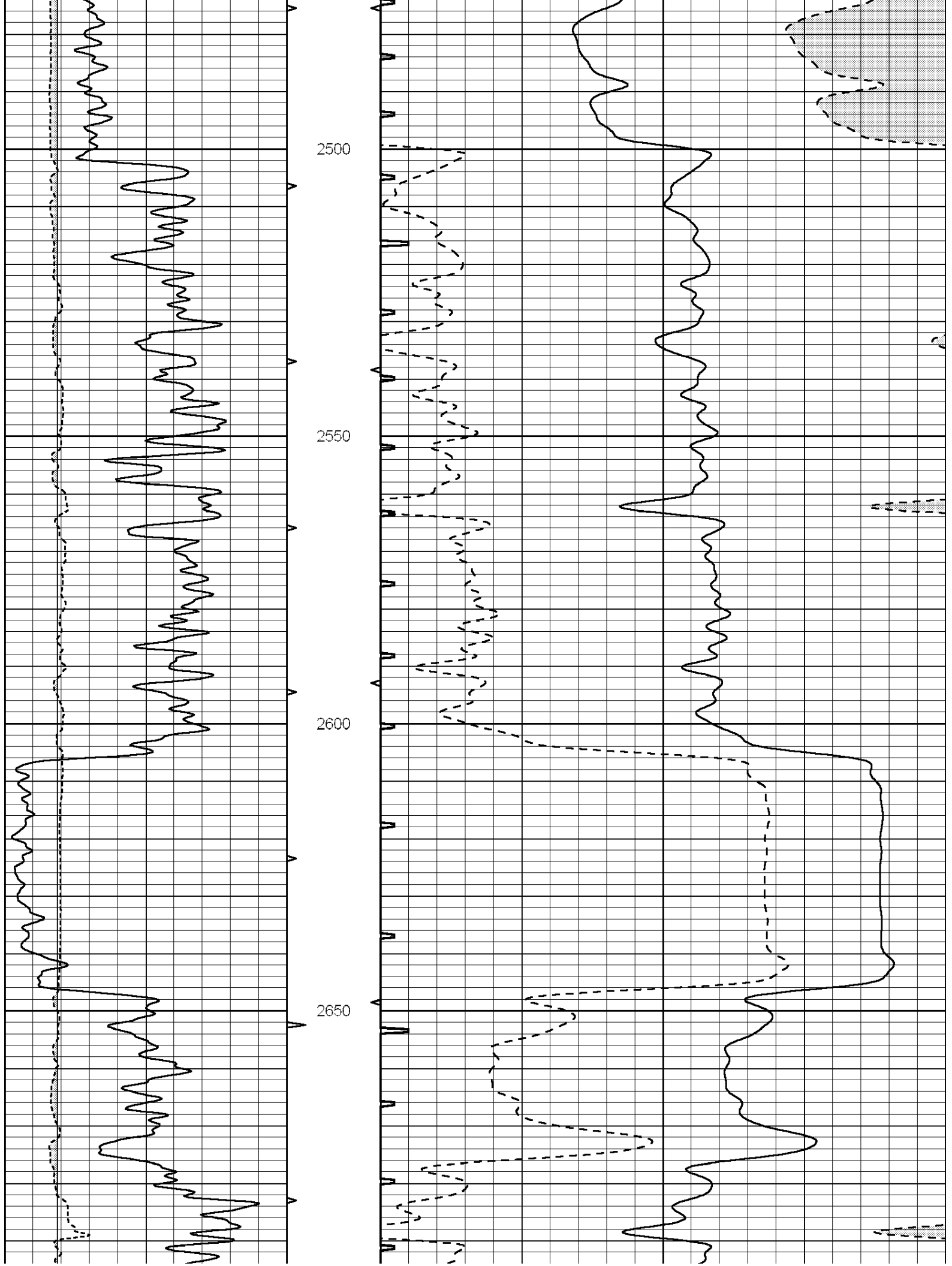
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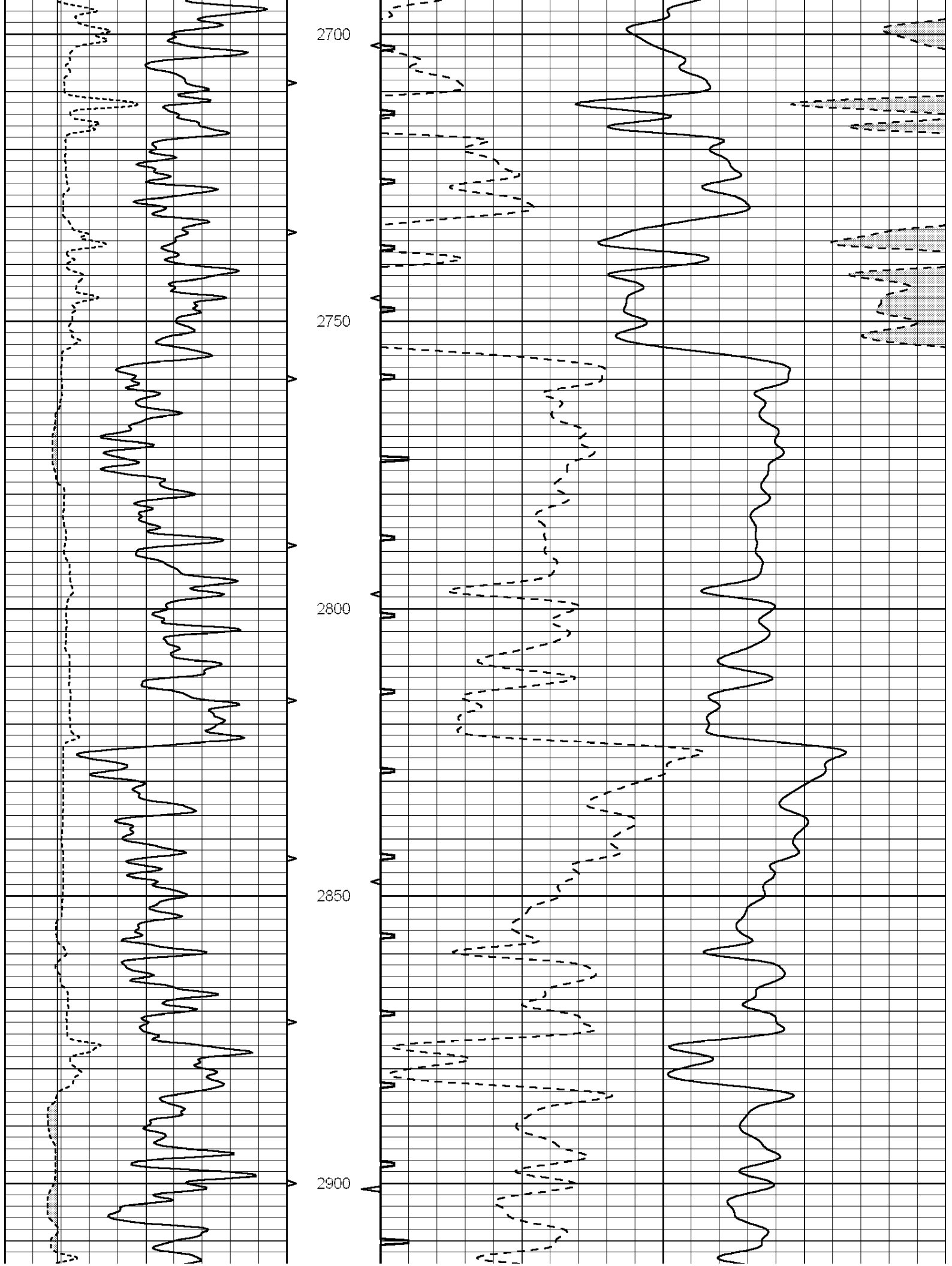
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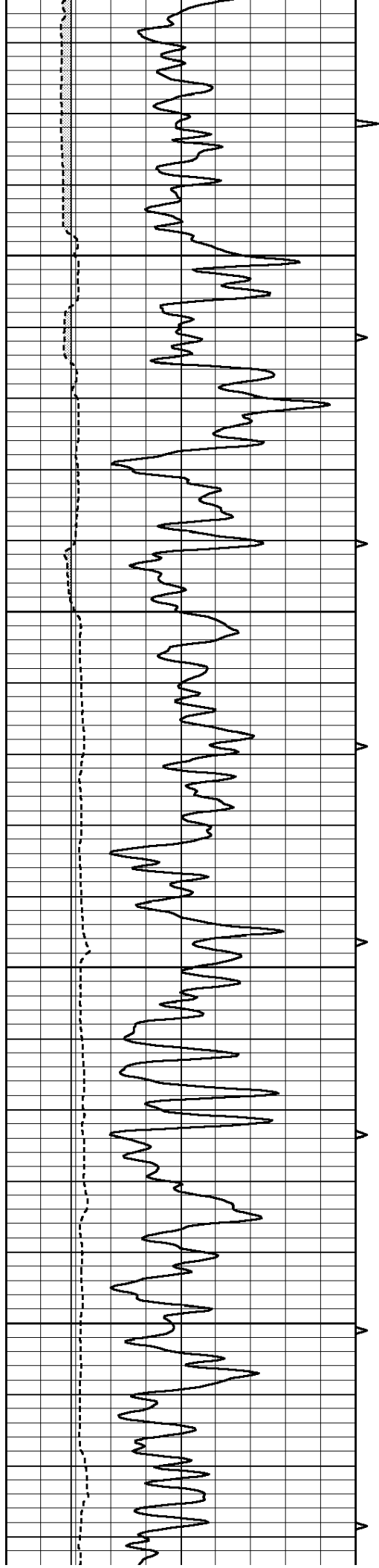
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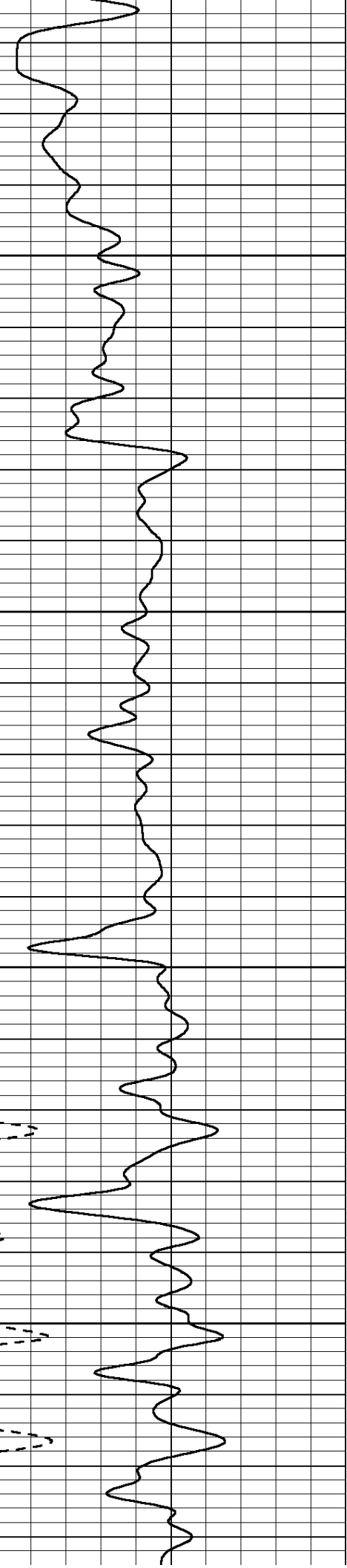
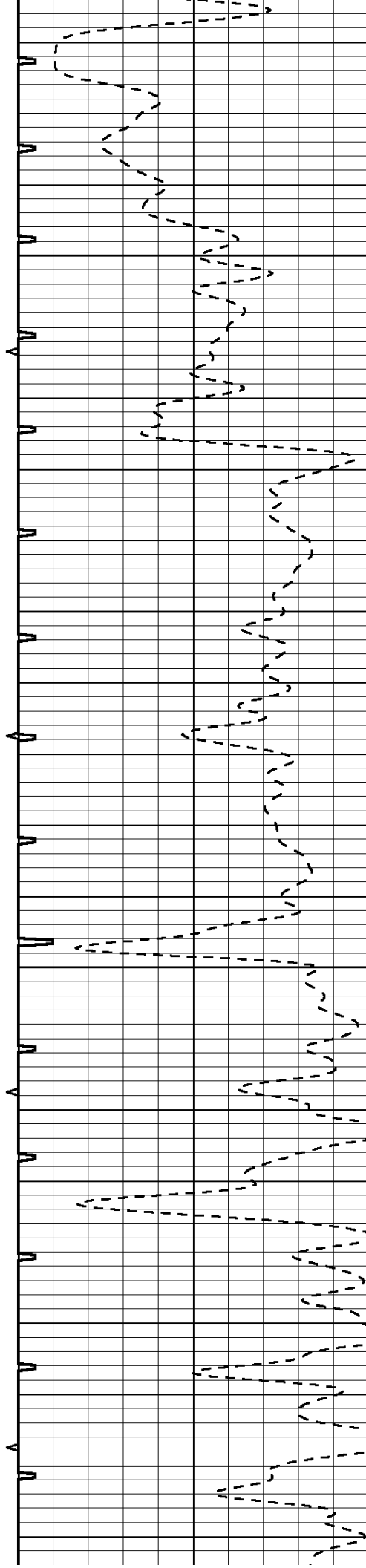


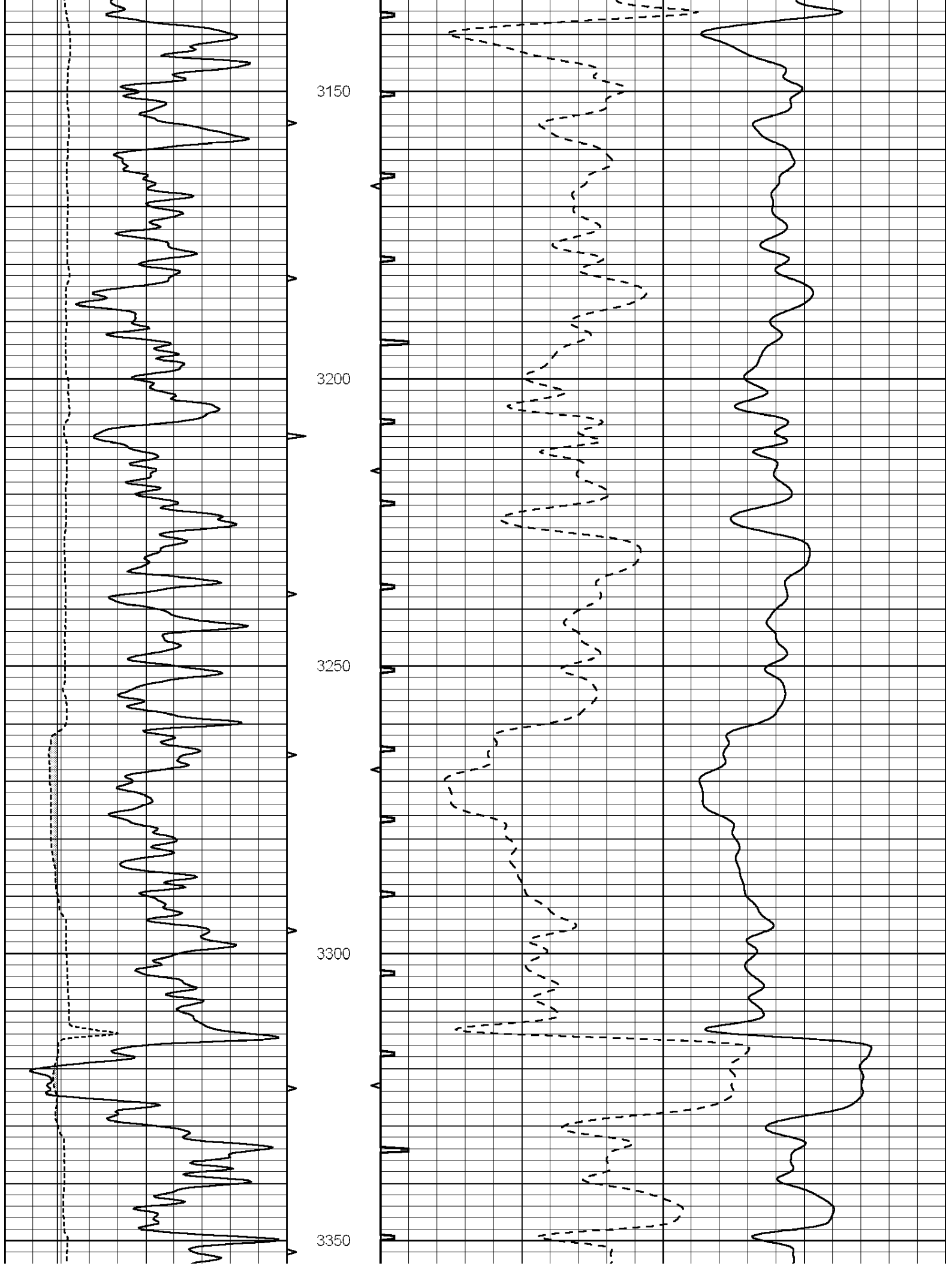
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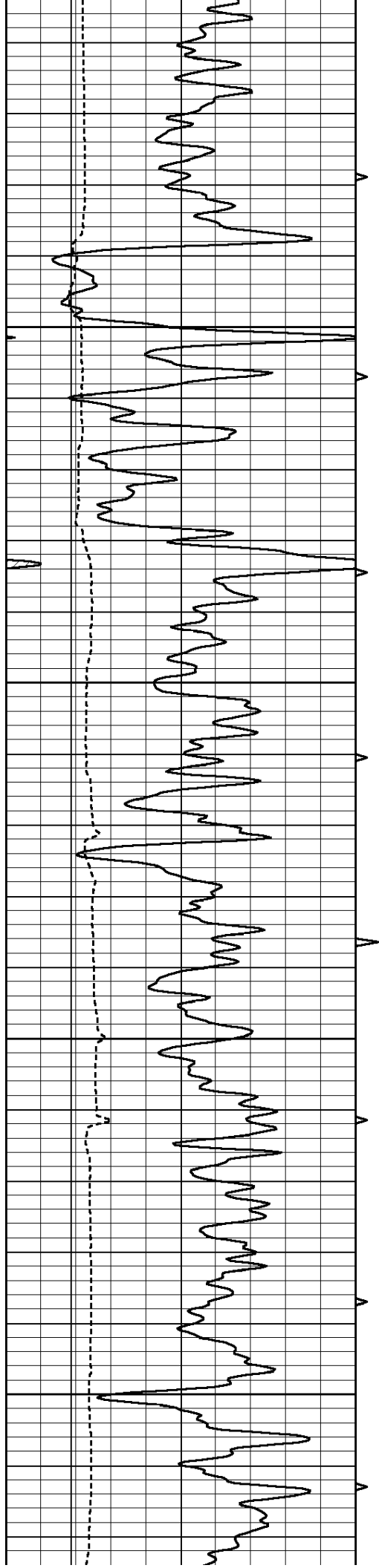
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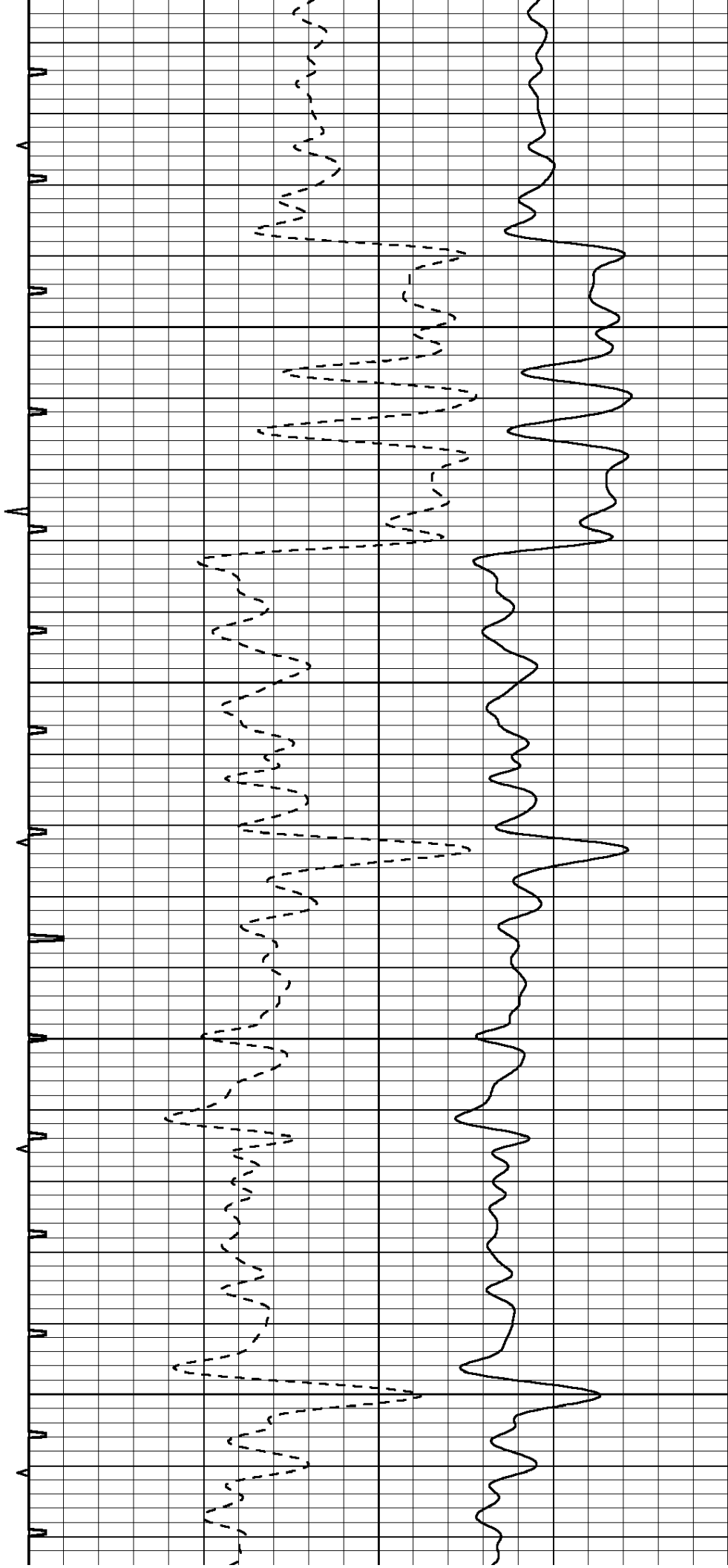


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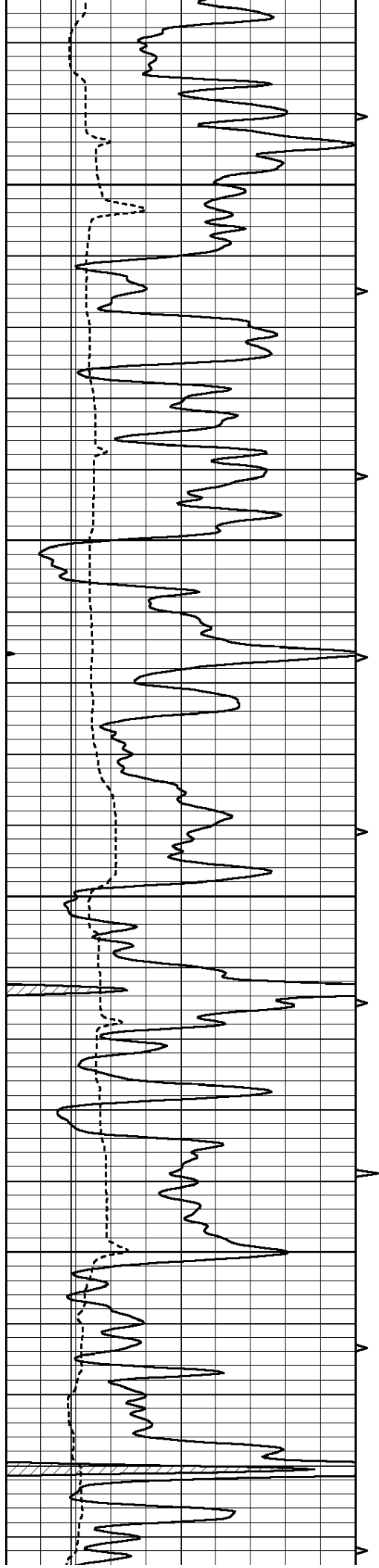
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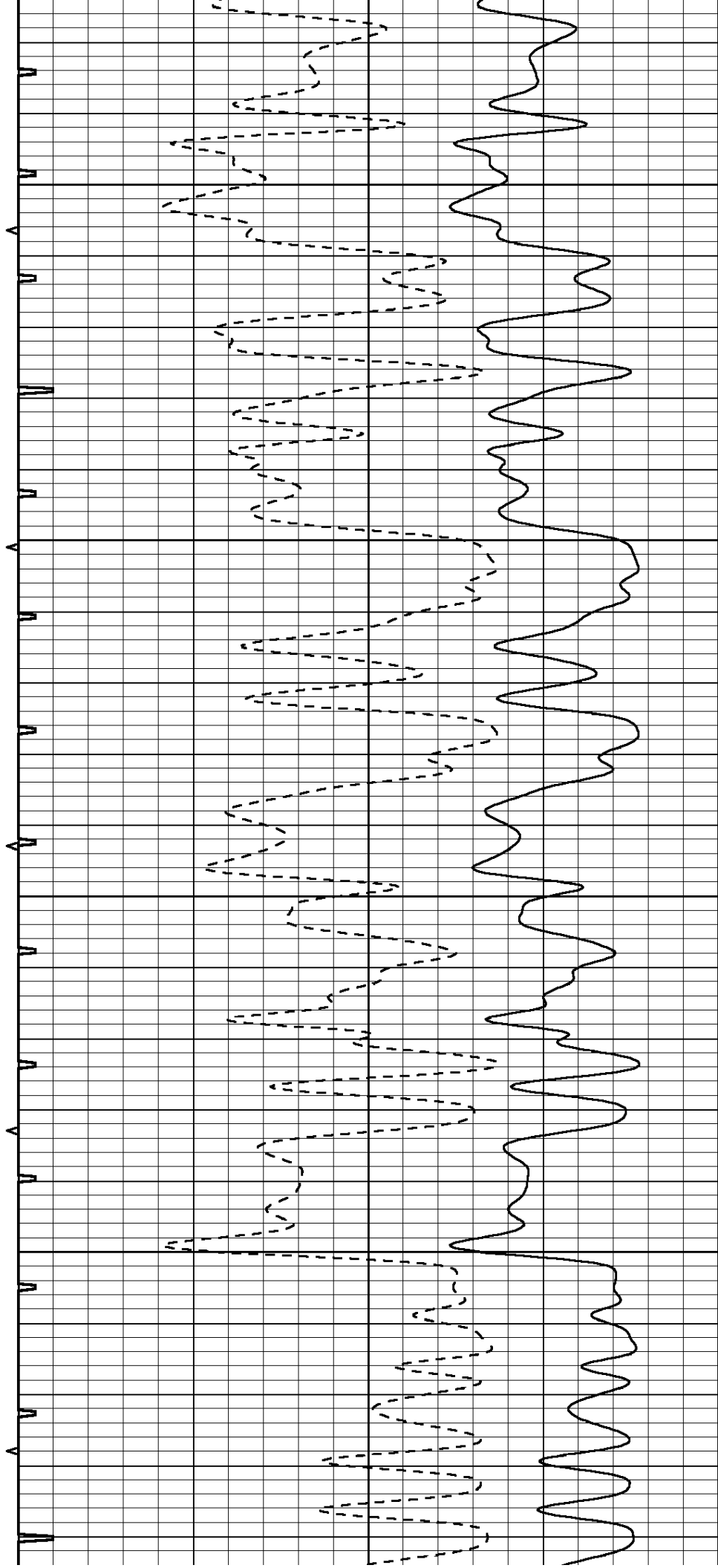


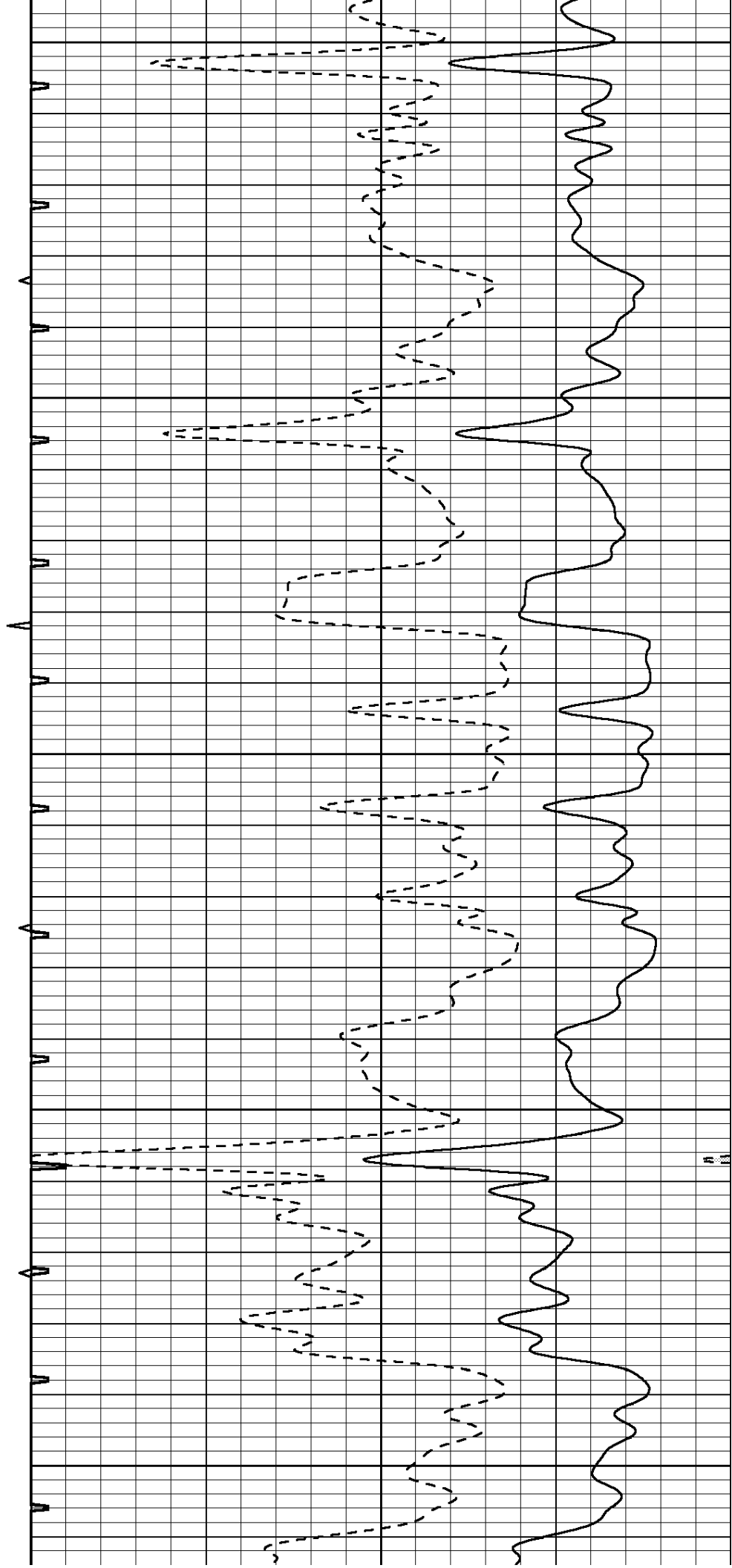
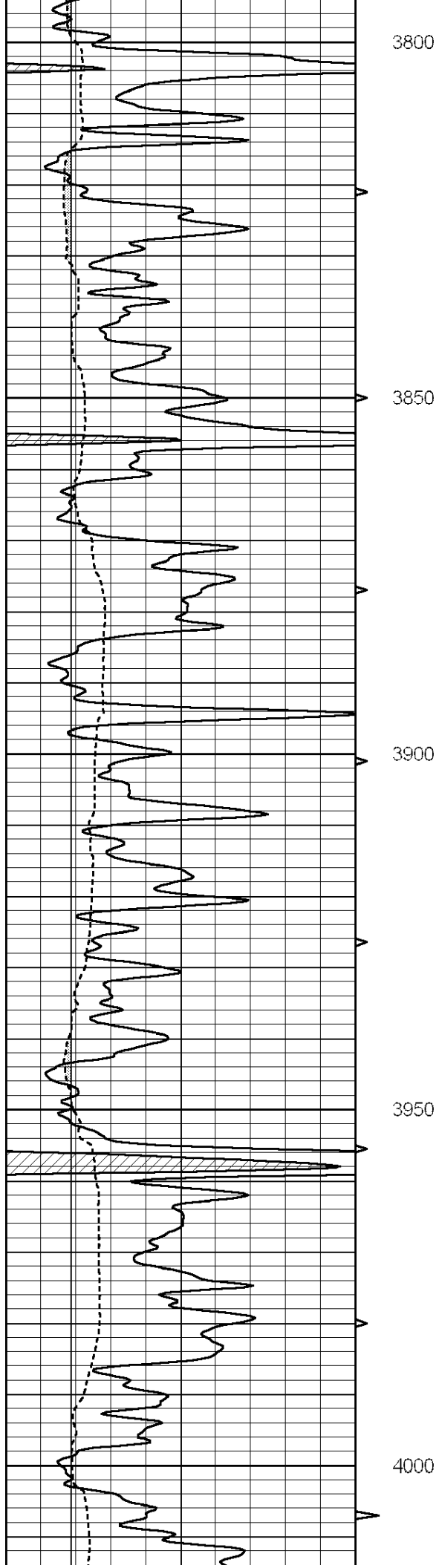
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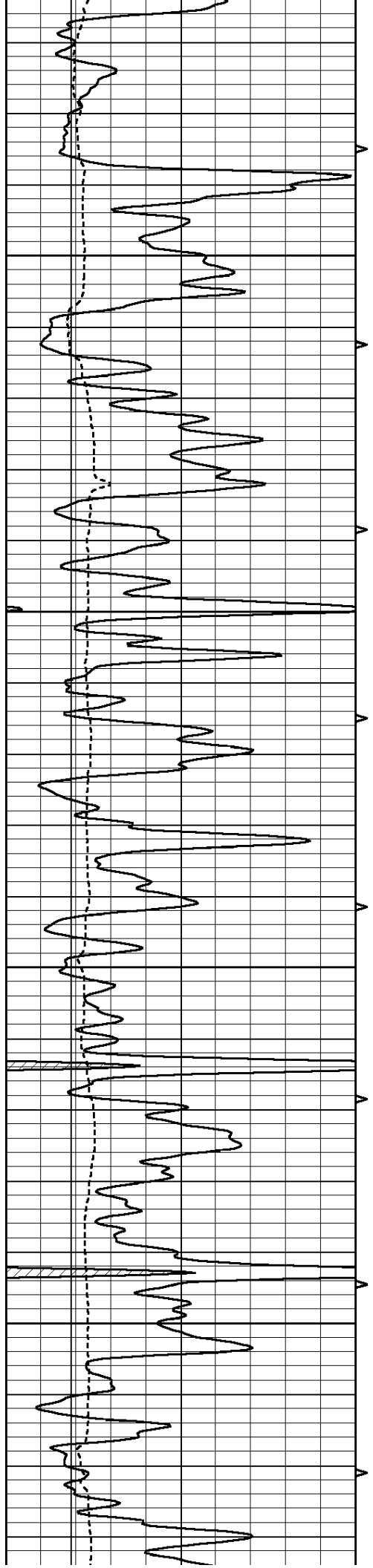
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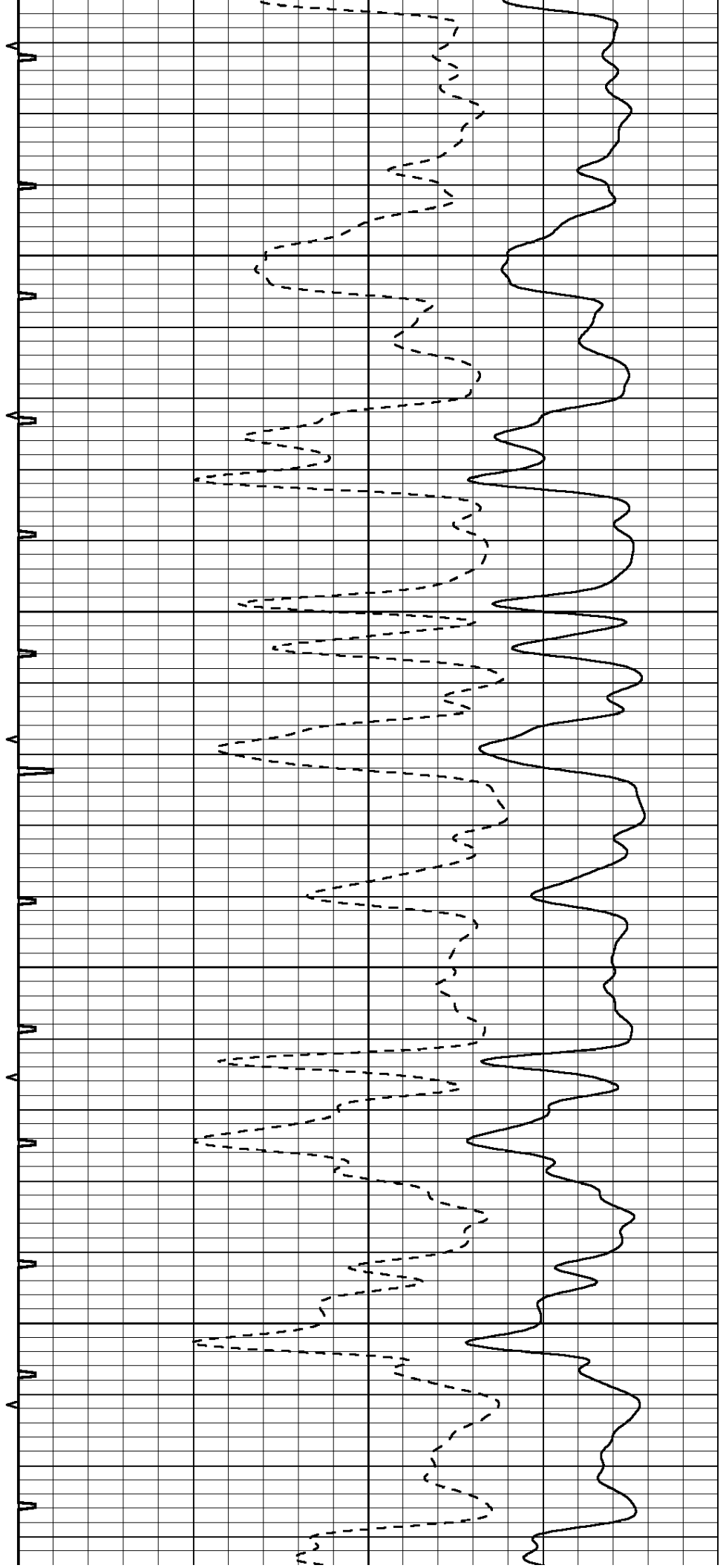


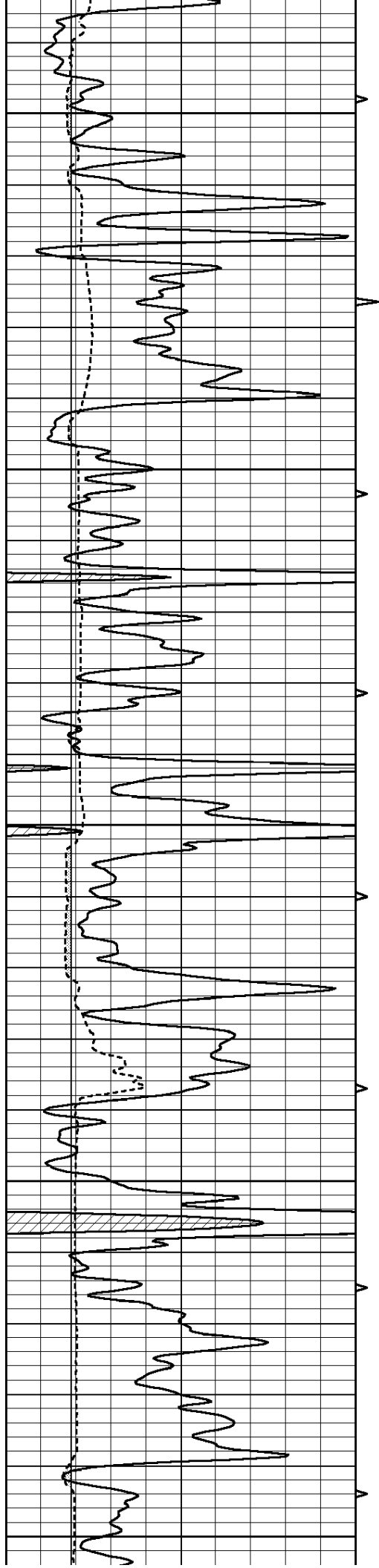
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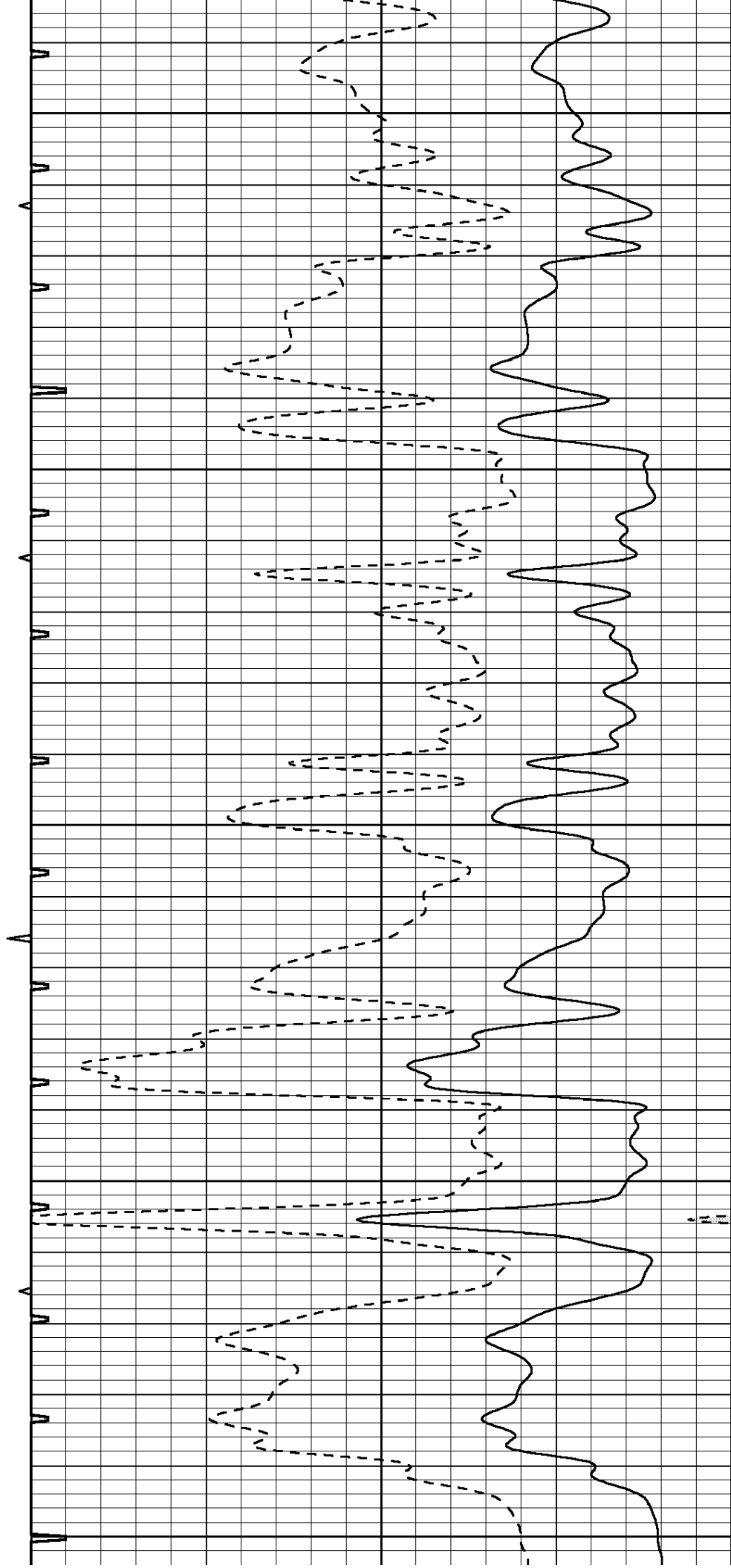
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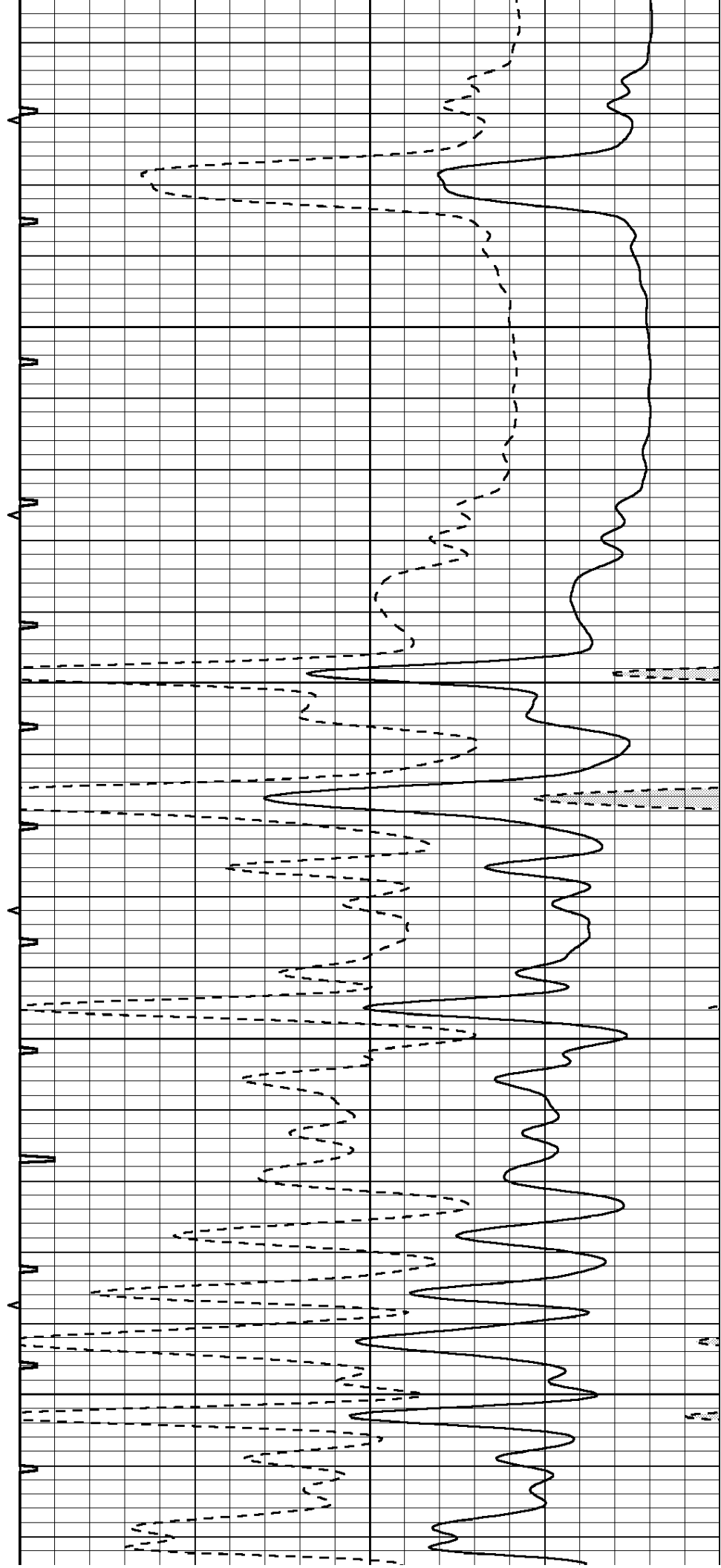
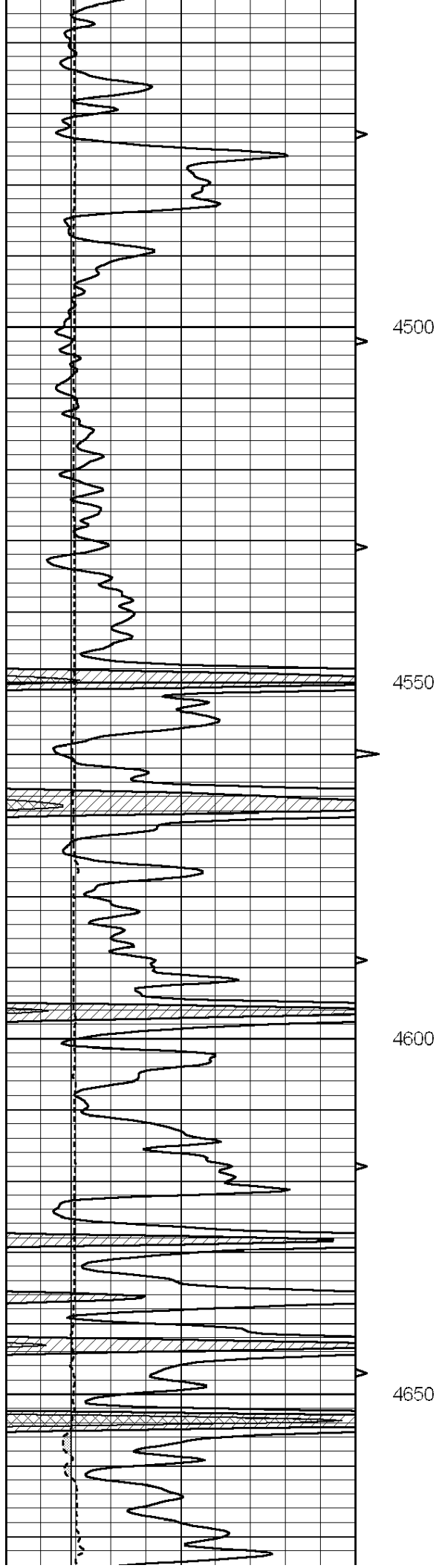
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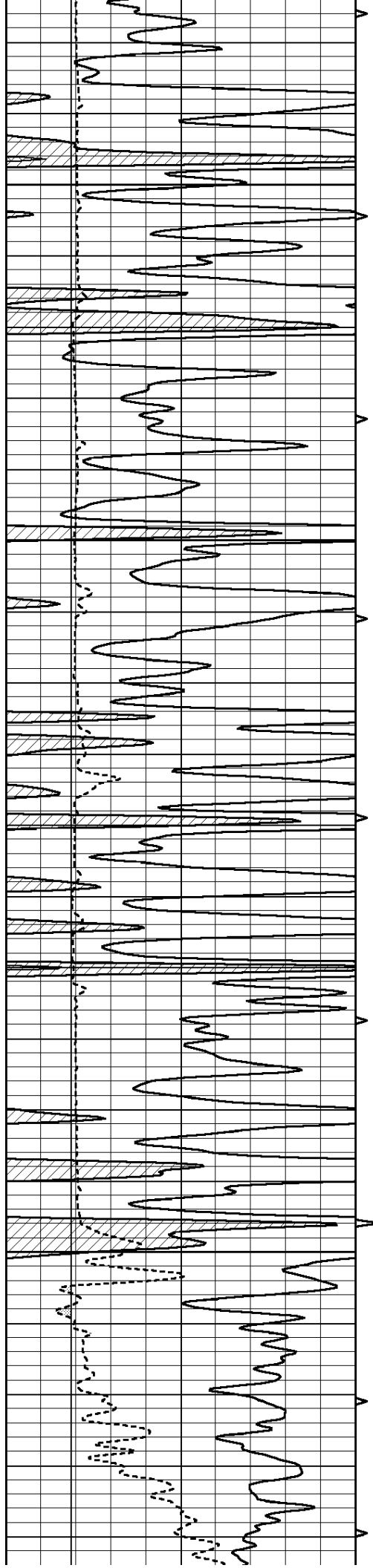
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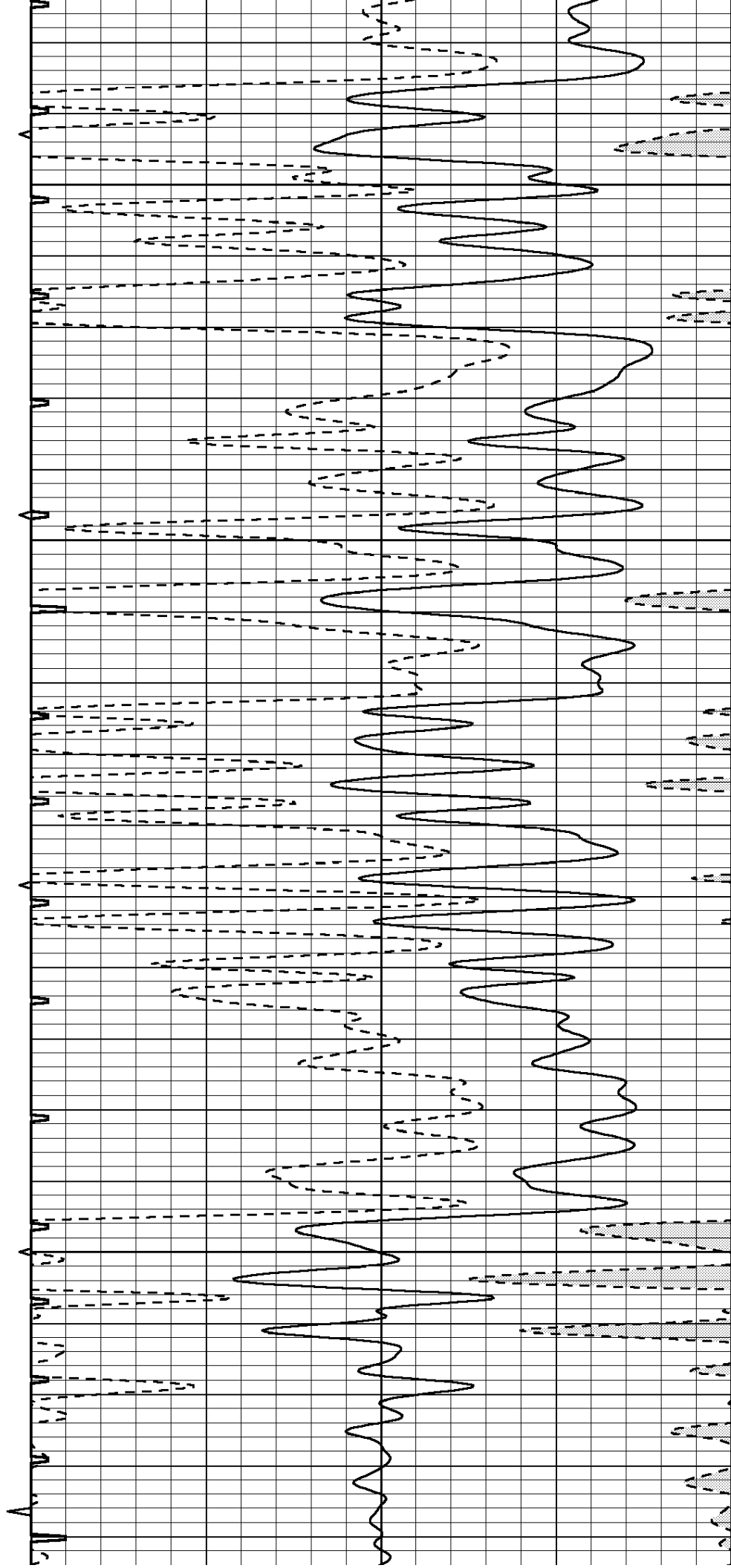


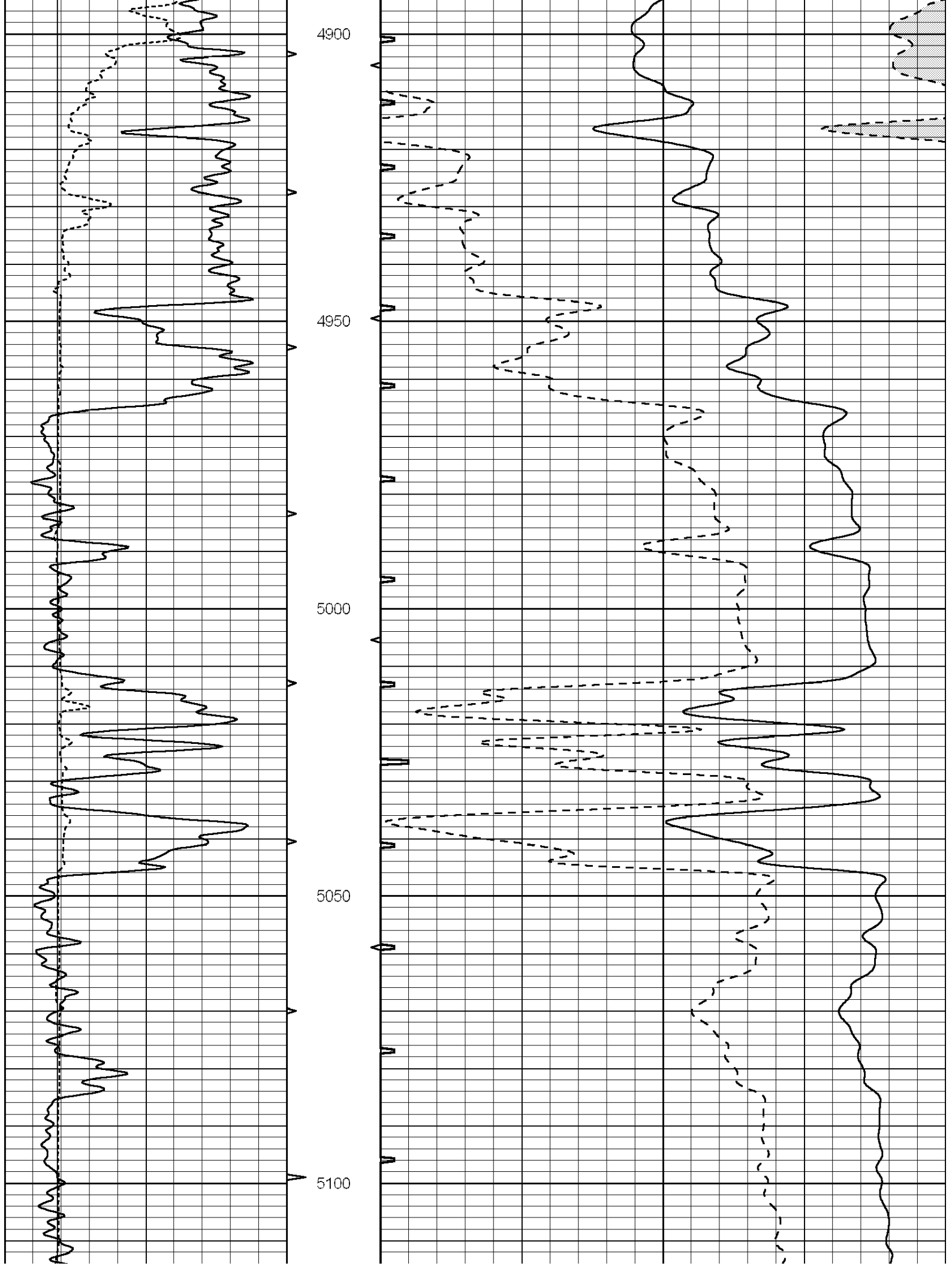
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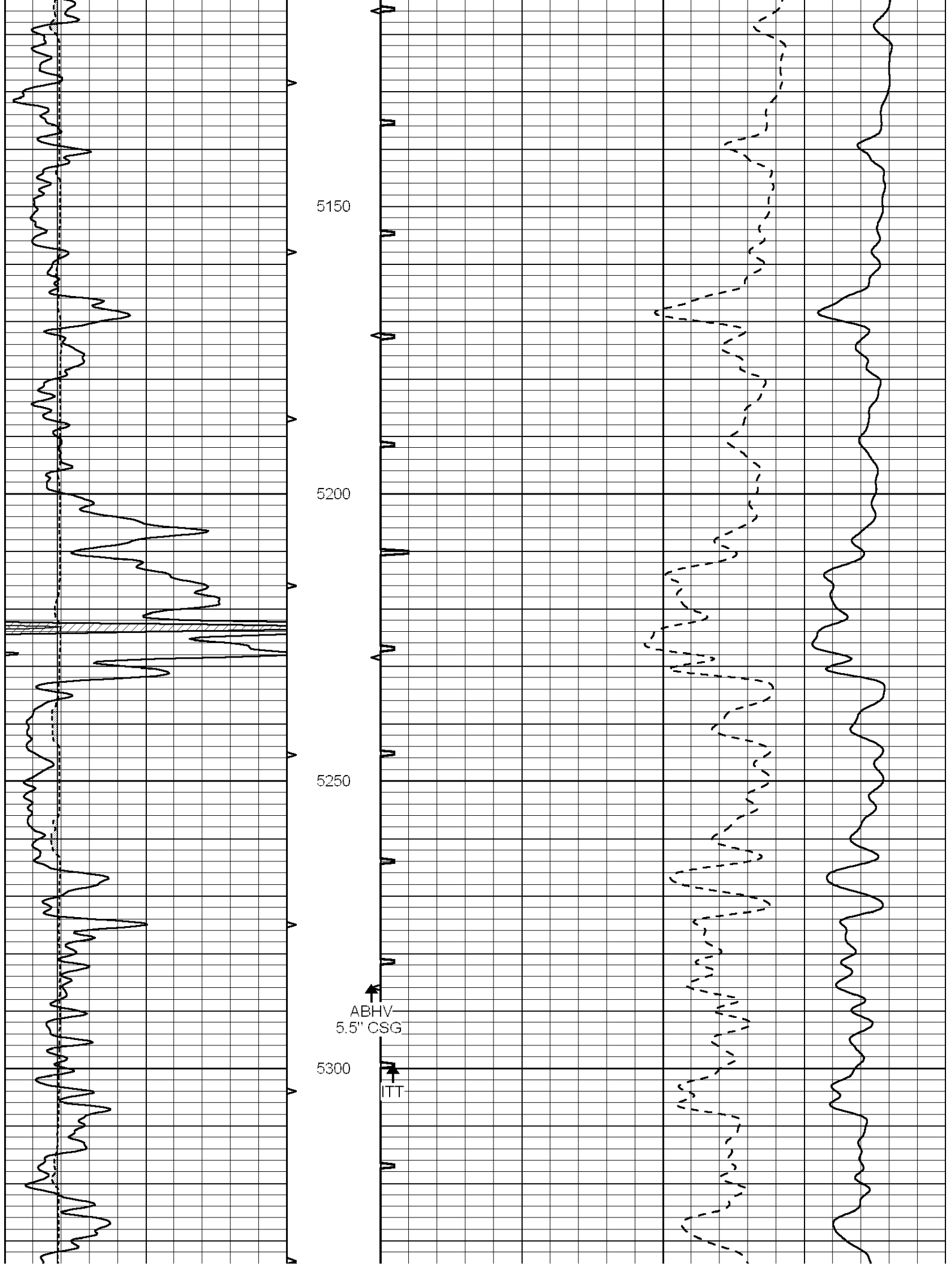
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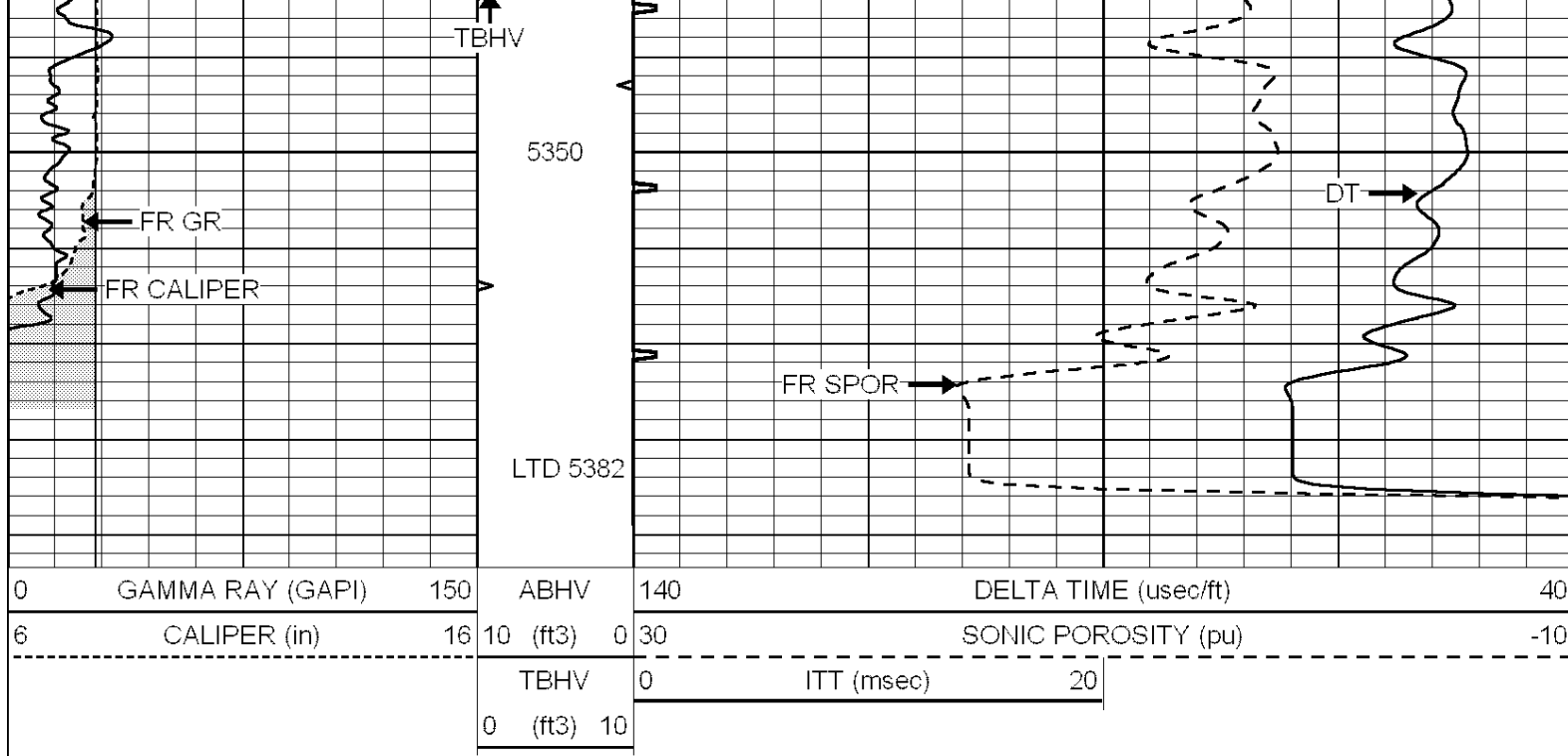
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SUPERIOR  
Hays,  
Kansas

# REPEAT SECTION

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