



NABORS

**COMPLETION
& PRODUCTION
SERVICES CO.**

**SONIC
LOG**

Company		EDISON OPERATING CO., LLC.	
Well		BARBARA #1-31	
Field		SEEVERS NW	
County		STAFFORD	
State		KANSAS	
Company		EDISON OPERATING COMPANY, LLC.	
Well		BARBARA #1-31	
Field		SEEVERS NW	
County		STAFFORD	
State		KANSAS	
Location:		API # : 15-185-23781-0000	
Permanent Datum		GROUND LEVEL	
Log Measured From		660' FSL & 660' FWL	
Drilling Measured From		SW - SW	
SEC 31		TWP 24S	
RGE 13W		Elevation	
K.B. 1958		CDL/CNL/PE	
D.F. 1956		DIL/MEL	
G.L. 1948			
Date	12/22/12		
Run Number	TWO		
Depth Driller	4230		
Depth Logger	4232		
Bottom Logged Interval	4218		
Top Log Interval	250		
Casing Driller	8 5/8"@296'		
Casing Logger	296'		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 7,200 PPM	
Density / Viscosity	9.0/60		
pH / Fluid Loss	8.0/9.2		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	0.60@80F		
Rmf @ Meas. Temp	0.45@80F		
Rmc @ Meas. Temp	0.72@80F		
Source of Rmf / Rmc	MEASUREMENT		
Rim @ BHT	0.41@118F		
Time Circulation Stopped	2.5 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	118F		
Equipment Number	4854		
Location	HAYS, KANSAS		
Recorded By	JEFF GRONEMEG		
Witnessed By	DEREK PATTERSON		

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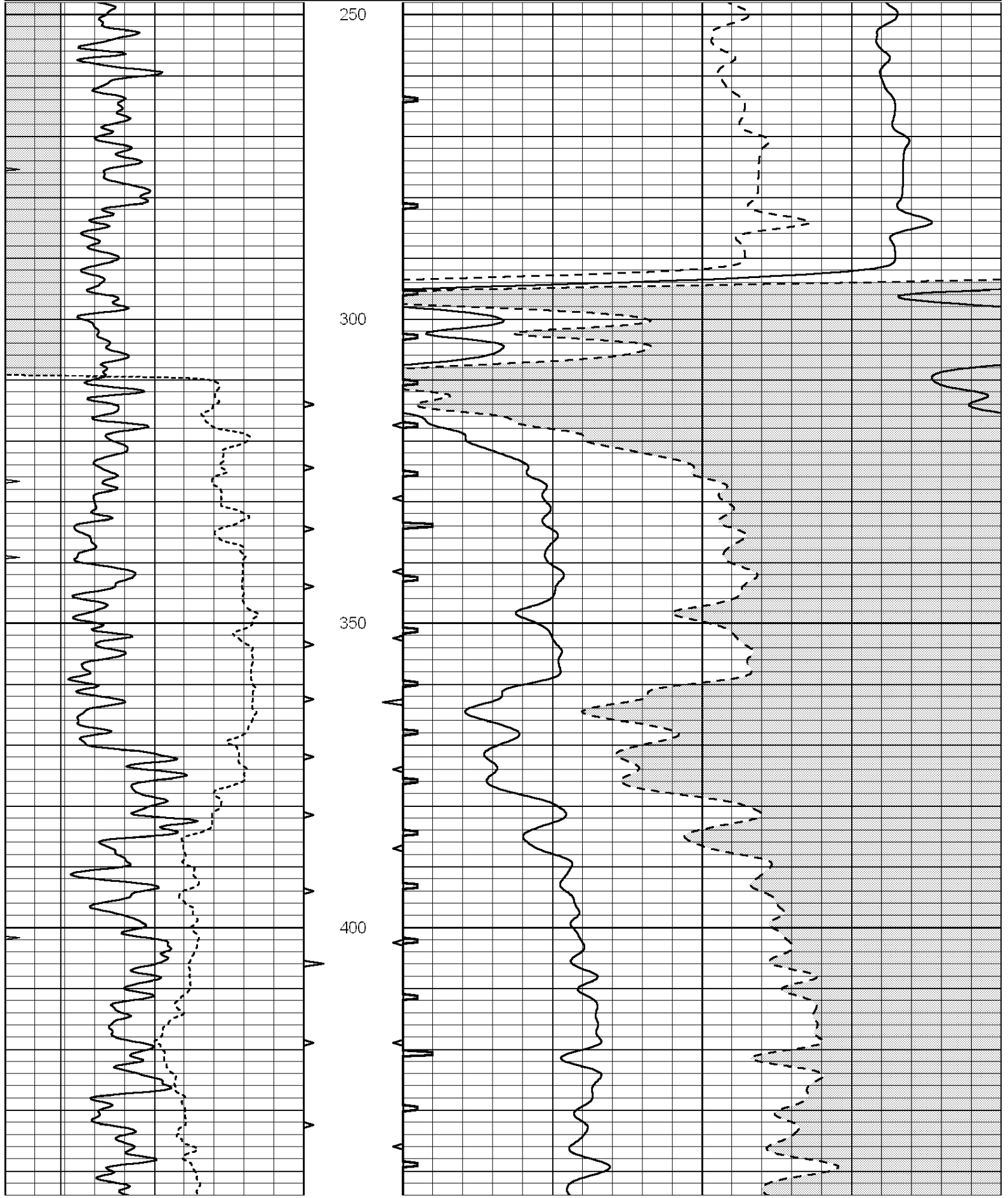
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

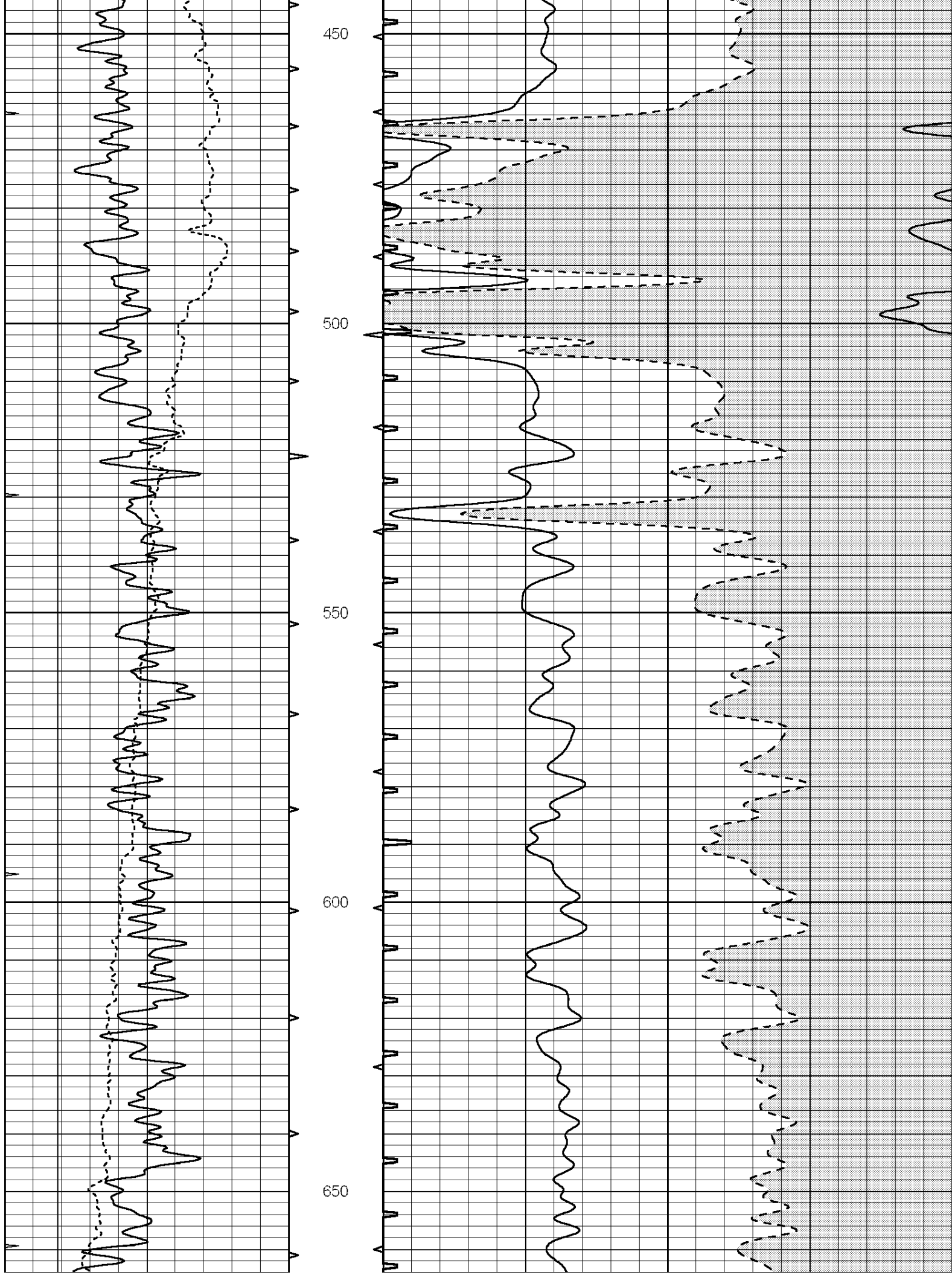
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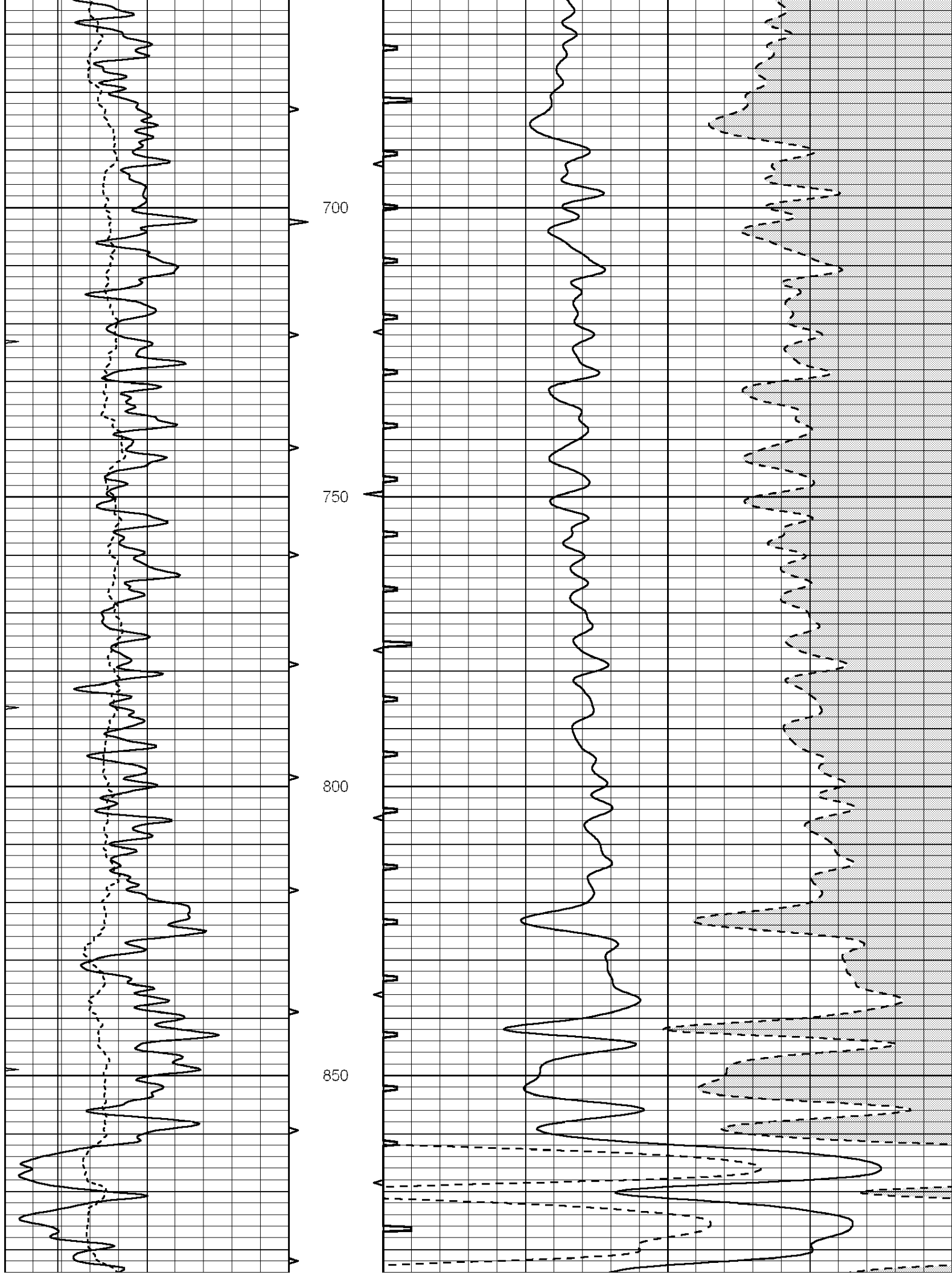
THANK YOU FOR USING "NABORS" HAYS, KANSAS (785) 628-6395
DIRECTIONS
ST. JOHN, KS - SOUTH TO INTERSECTION OF HWYS 281 & 50
3 MILES WEST TO RD 30 - 3 MILES SOUTH - EAST INTO

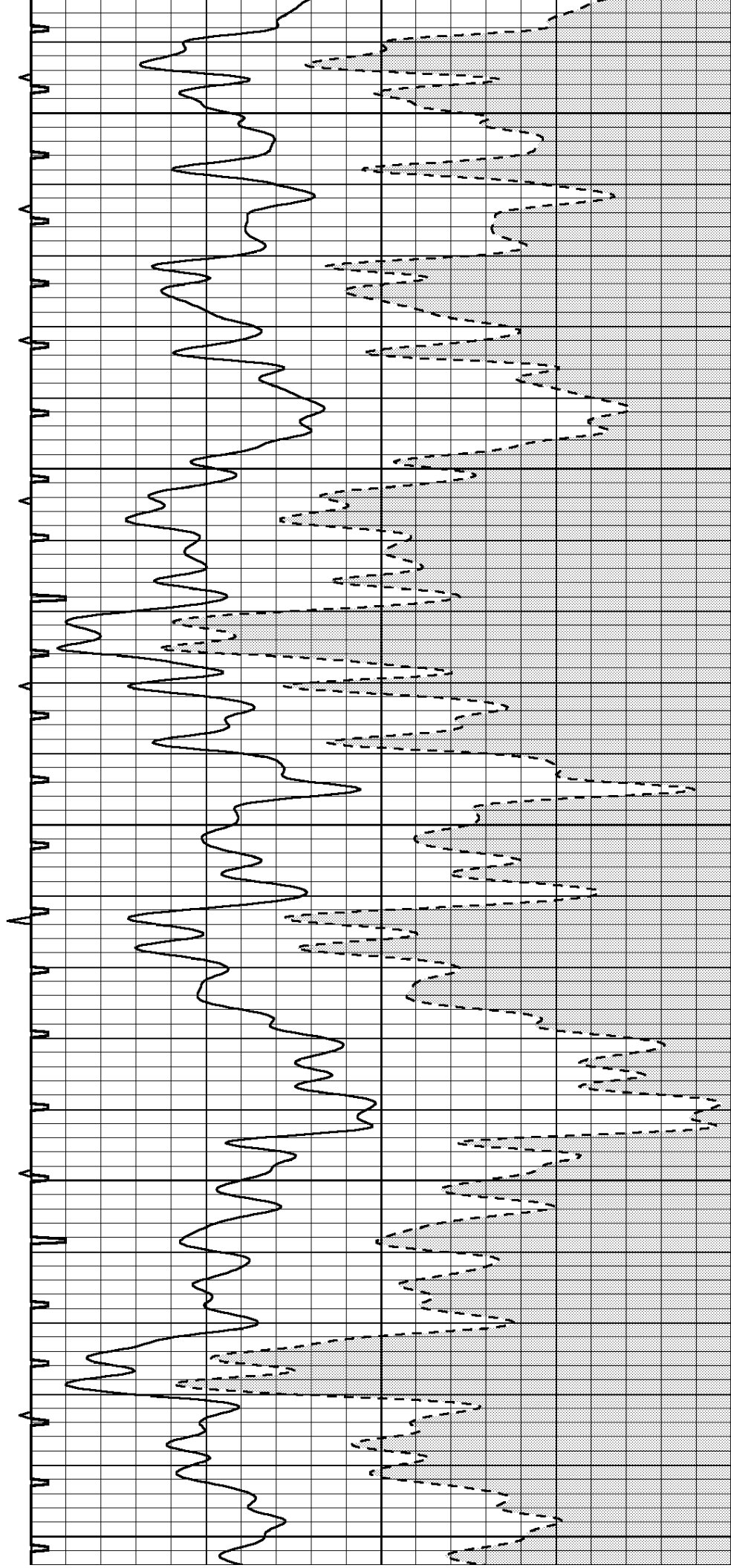
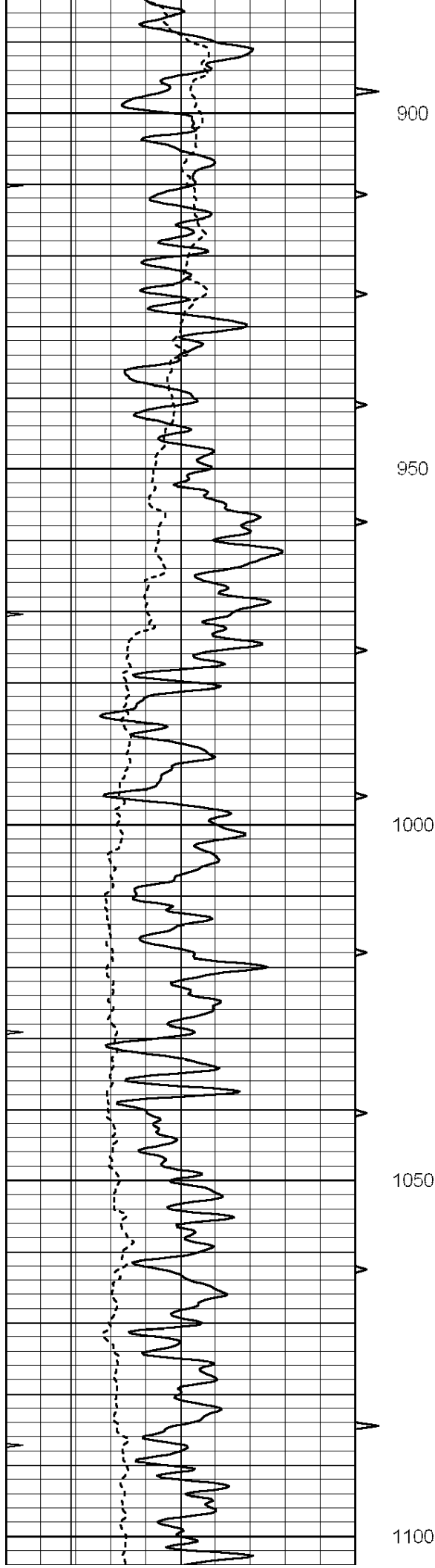
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Dataset Pathname: pass7
Presentation Format: _slt
Dataset Creation: Sat Dec 22 21:10:06 2012 by Log SOC 120430
Charted by: Depth in Feet scaled 1:240

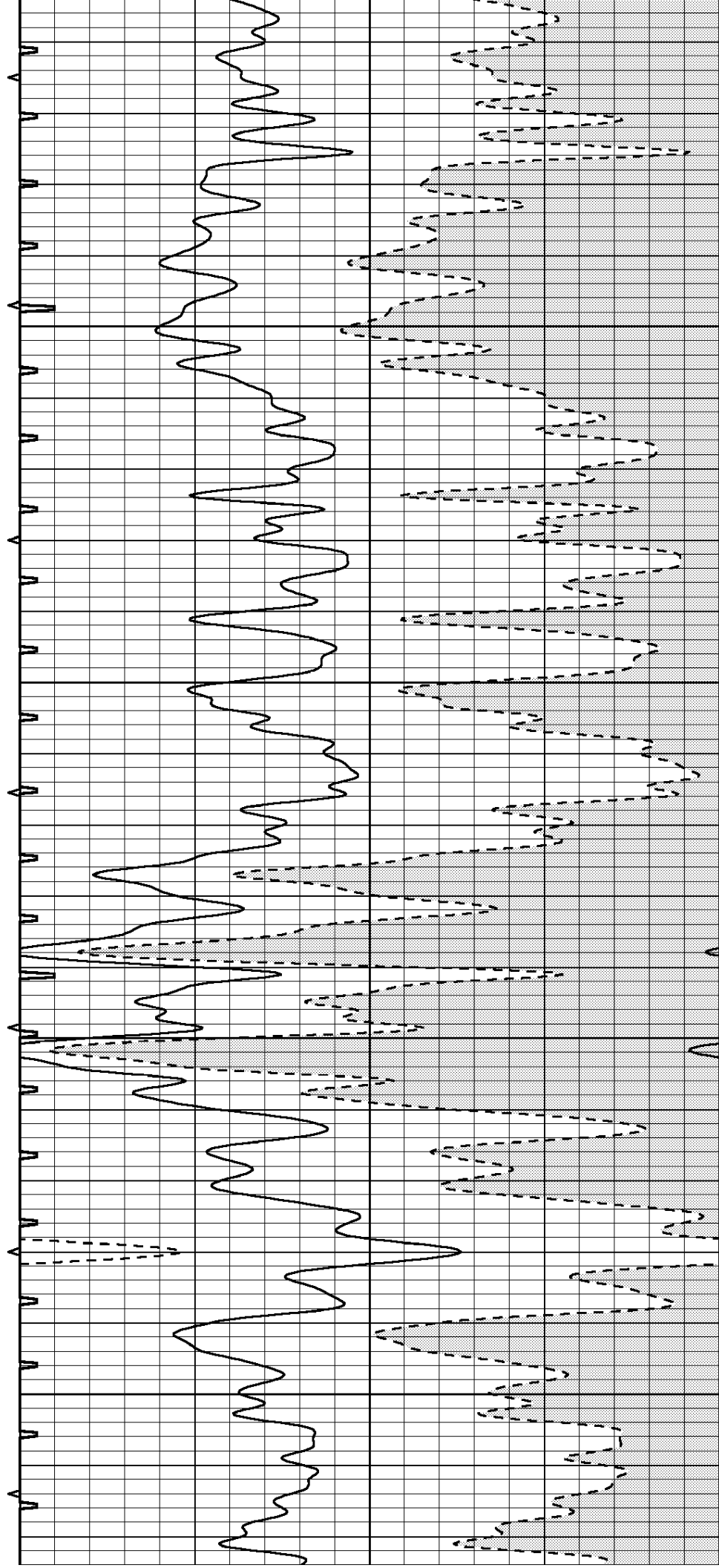
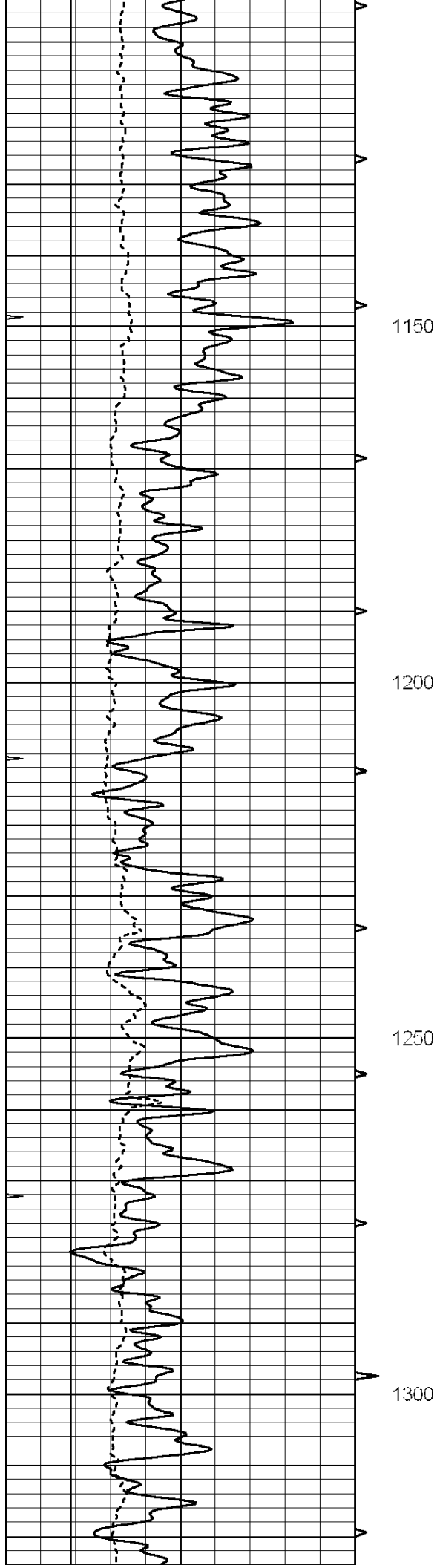
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6	CALIPER (in)	16	10 (ft3) 0	30	SONIC POROSITY (pu)	-10
0	MINMK	20	TBHV	0	ITT (msec)	20
			0 (ft3) 10			

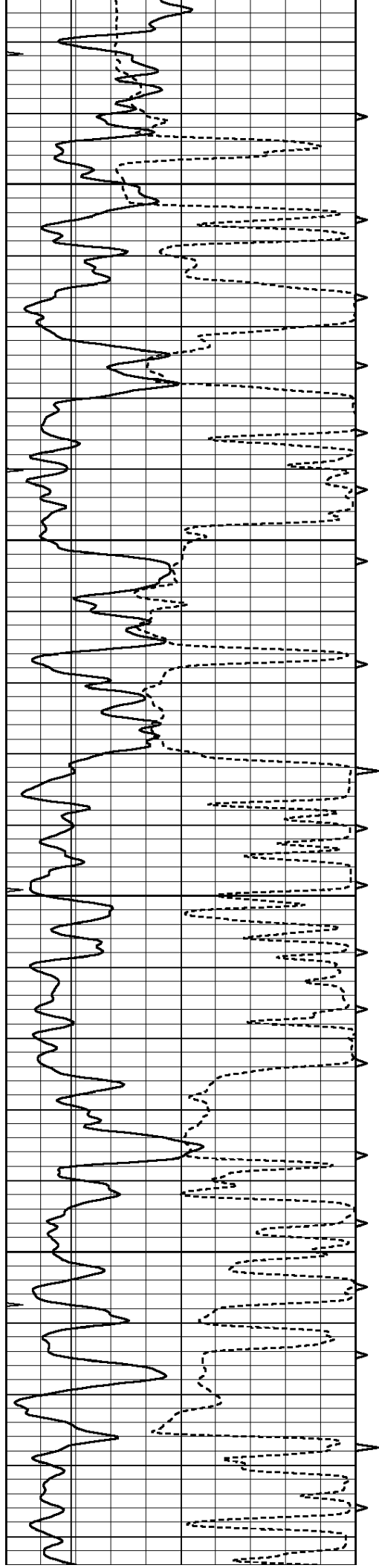










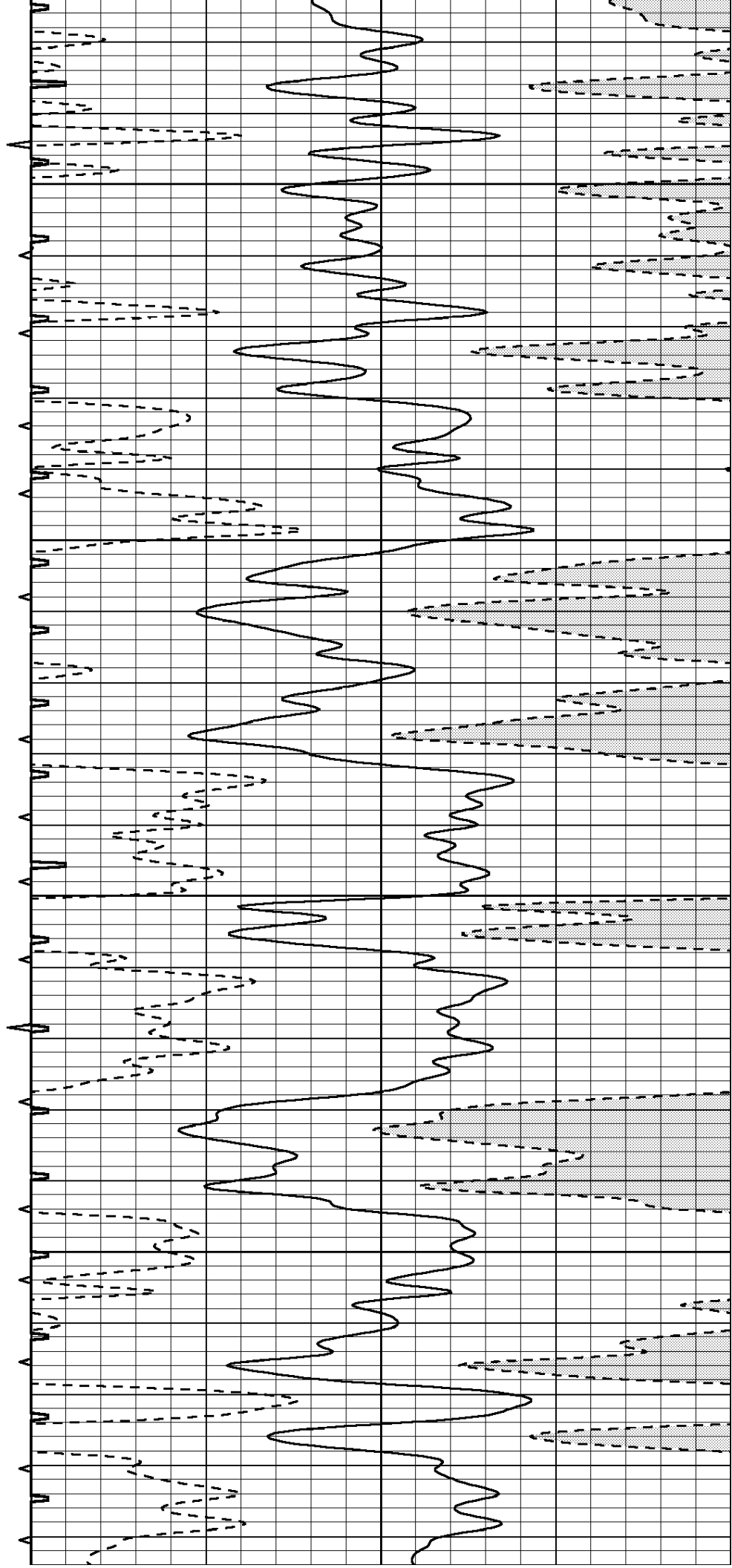


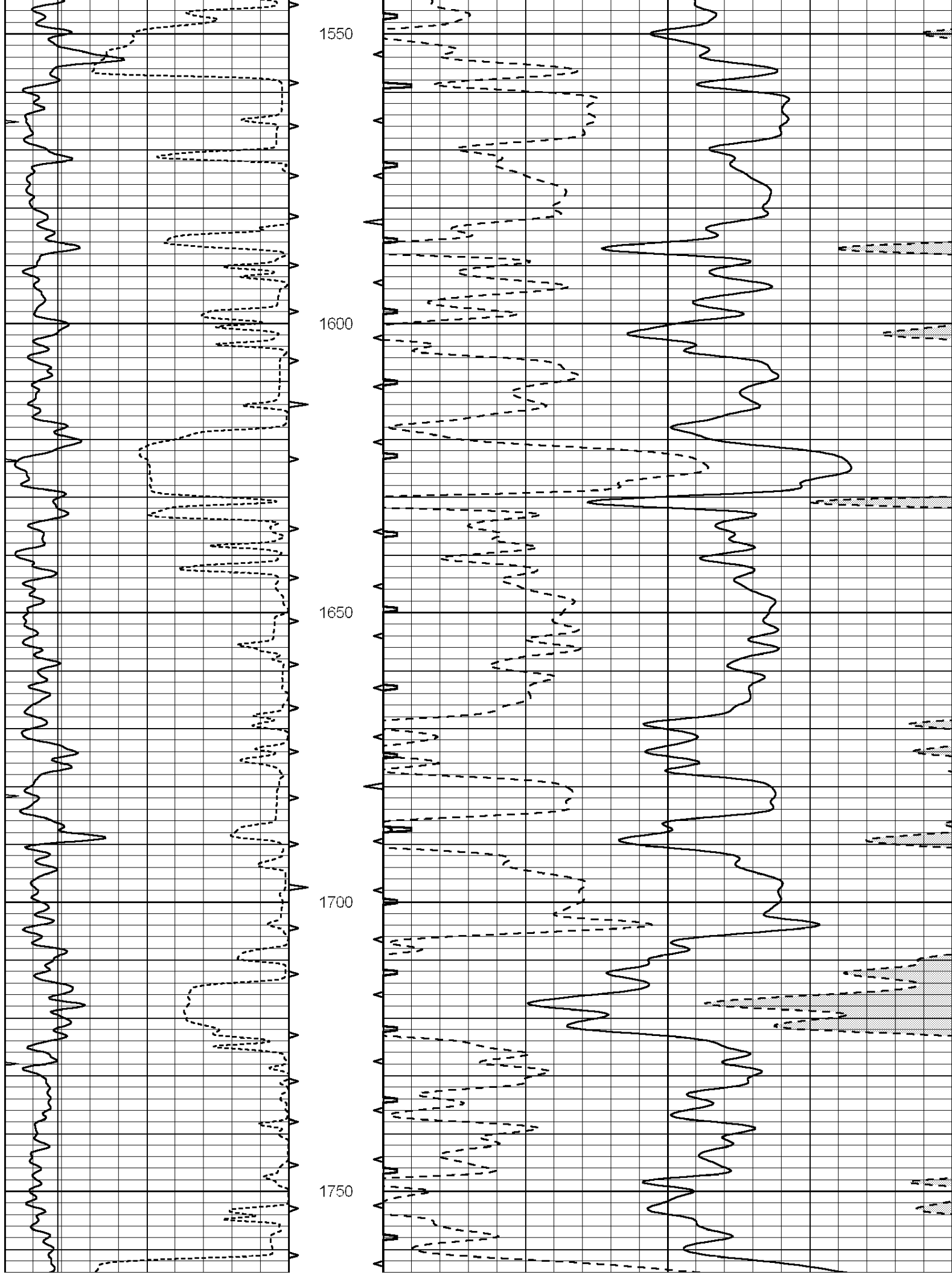
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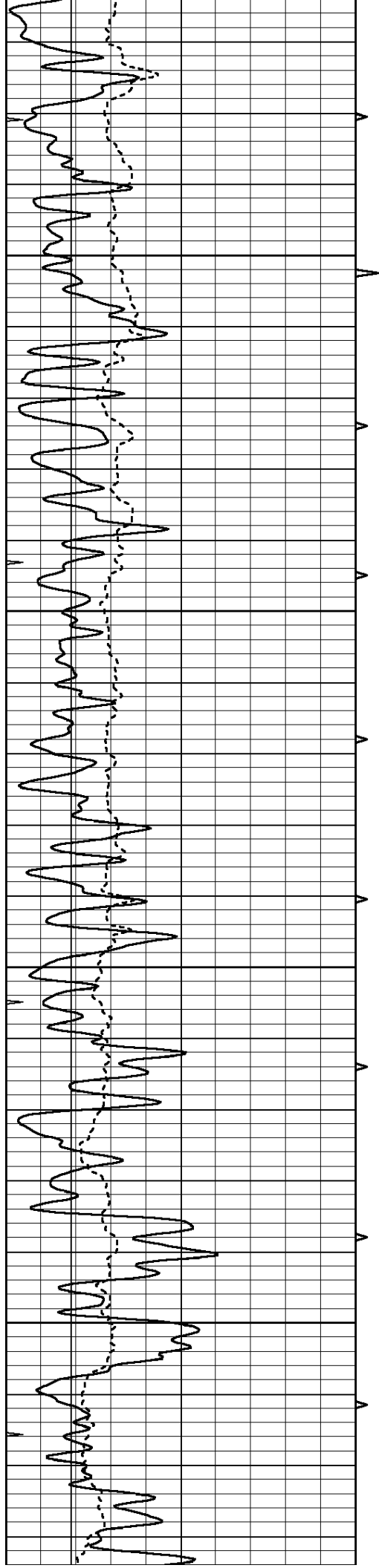
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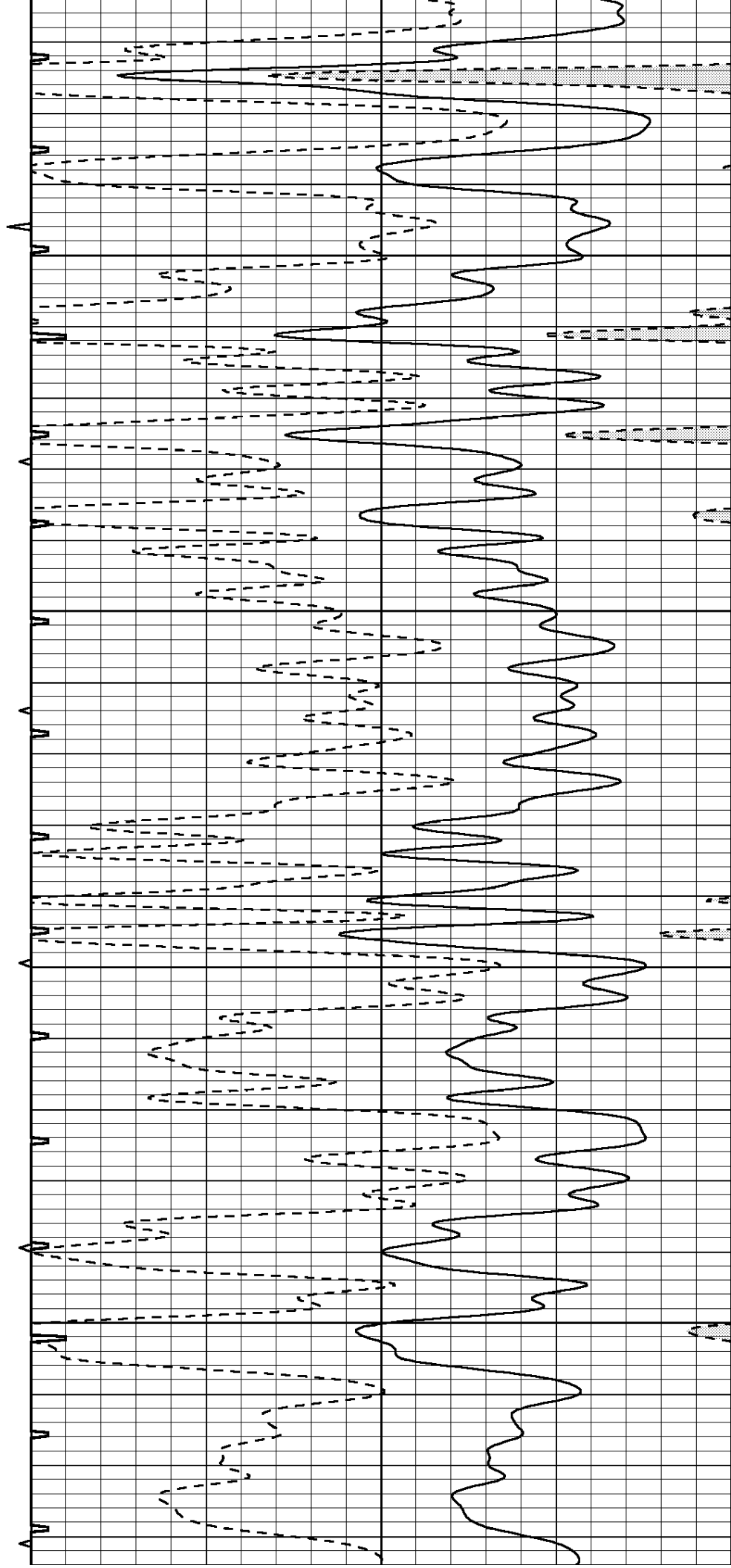


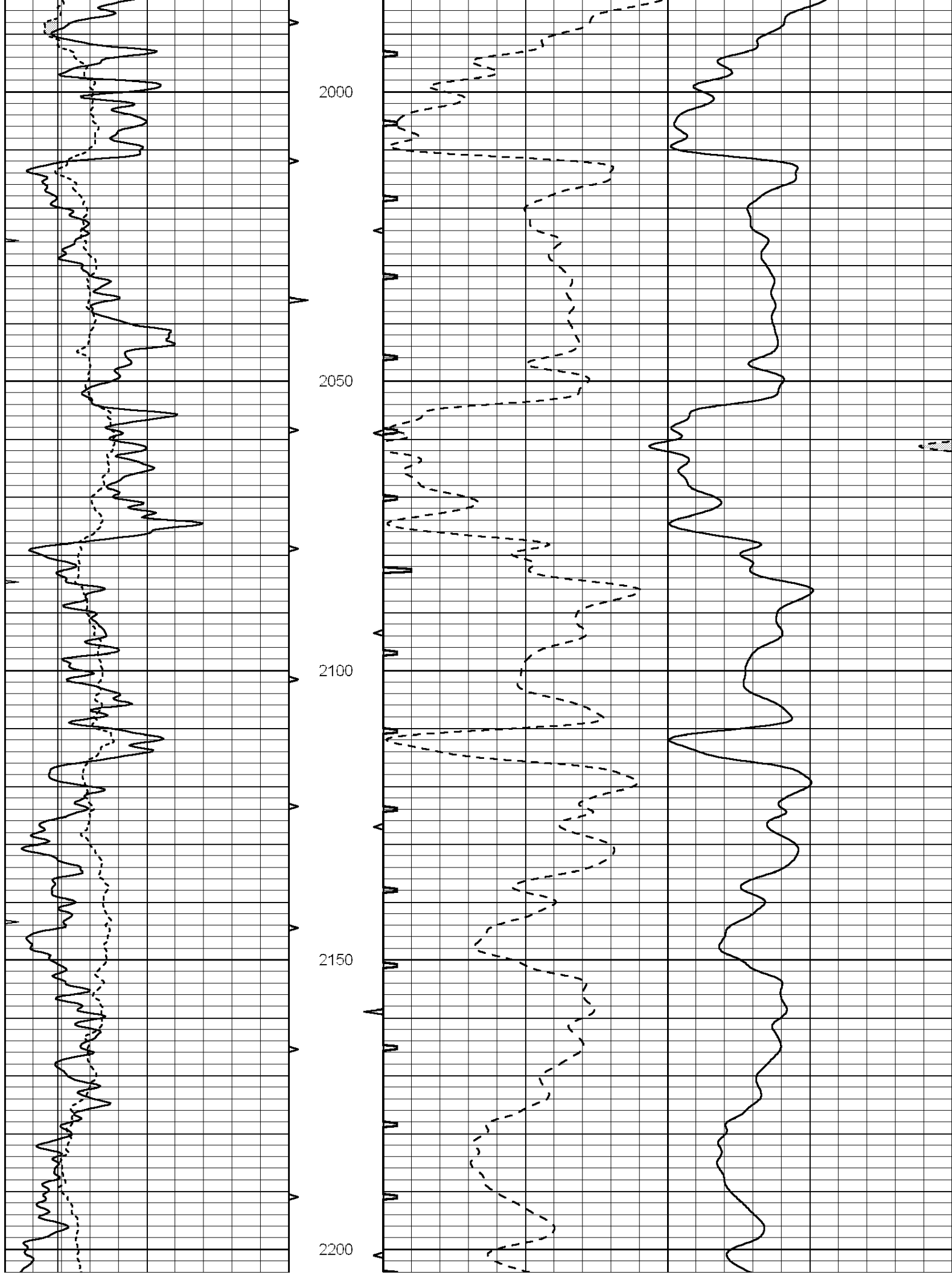
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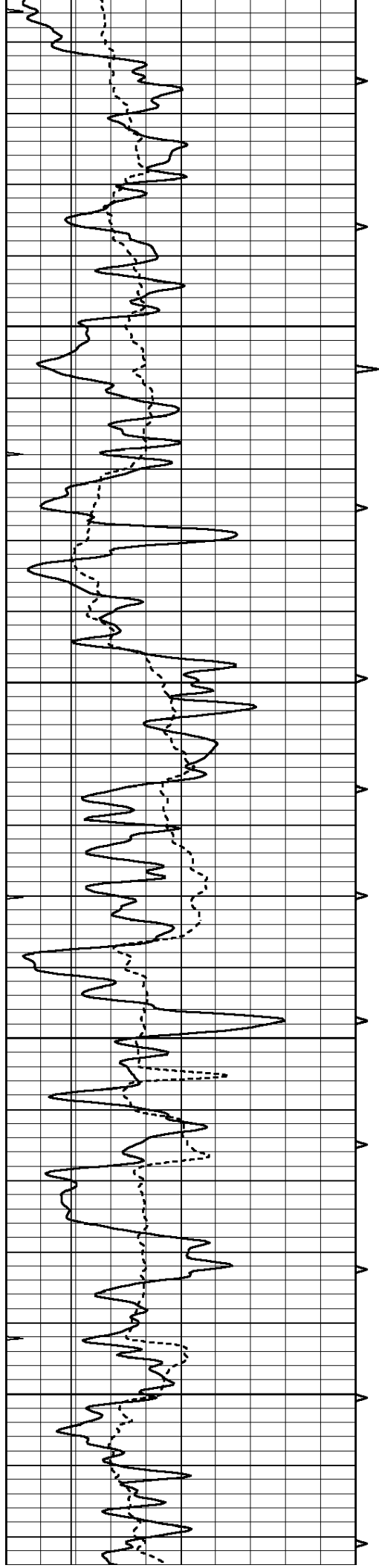
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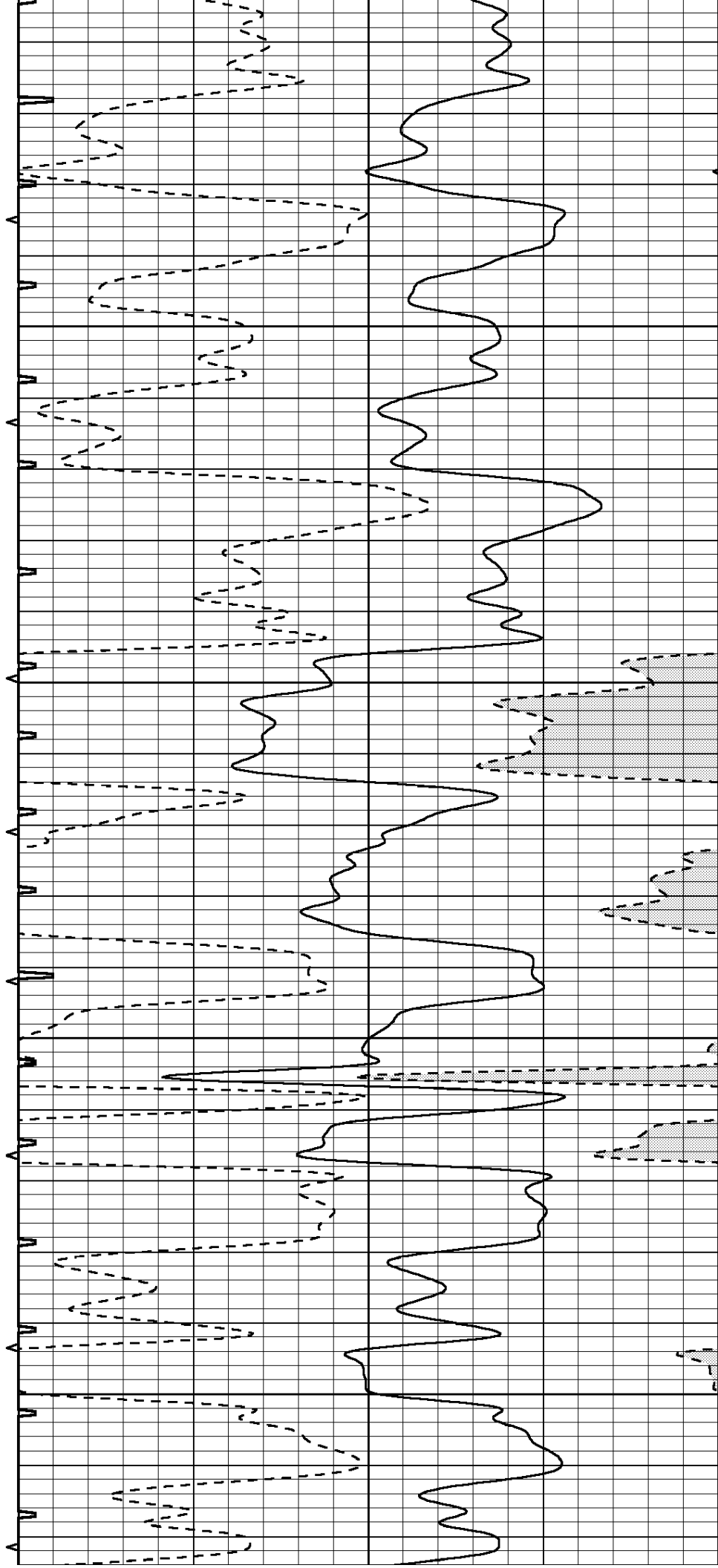


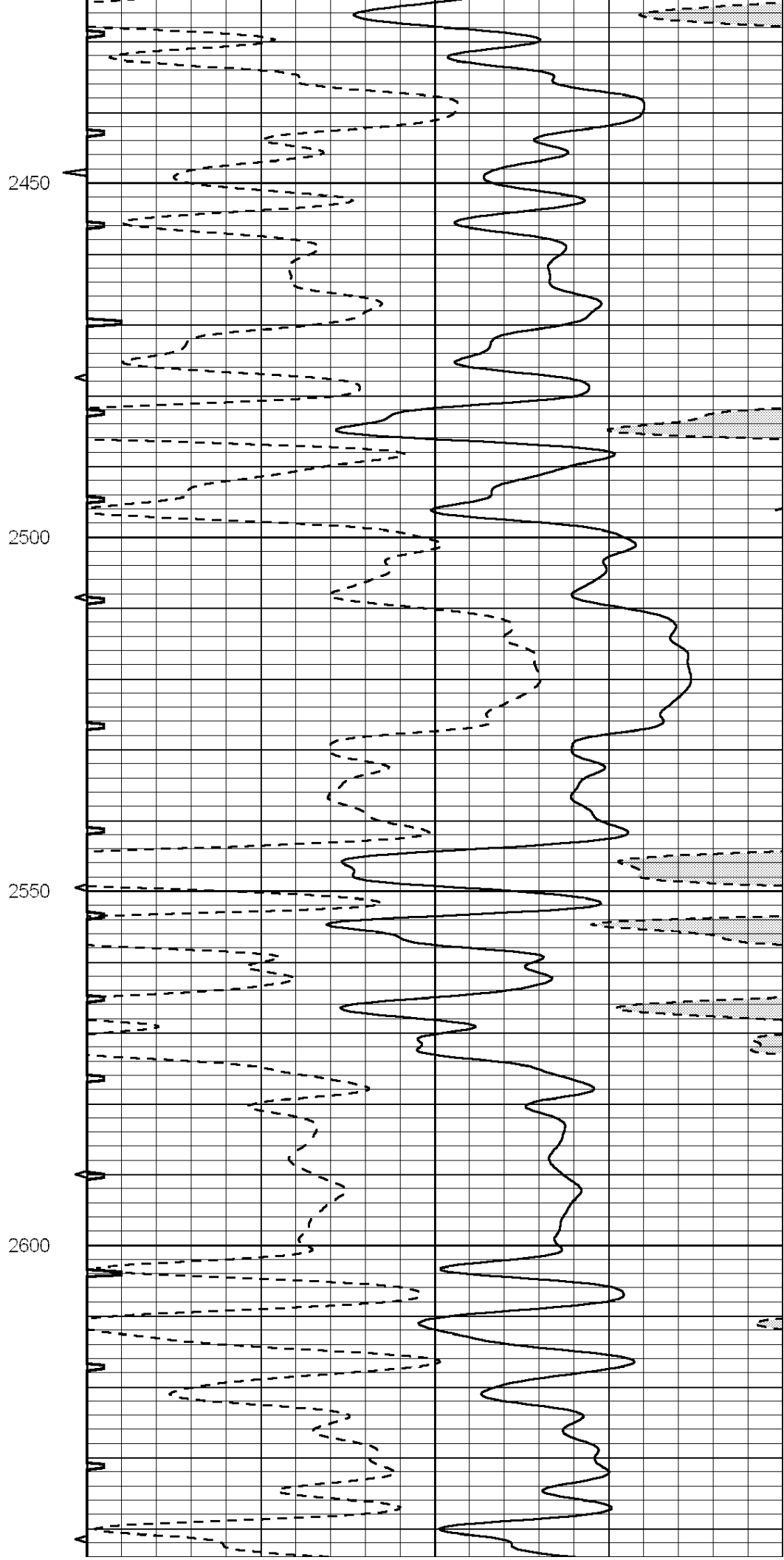
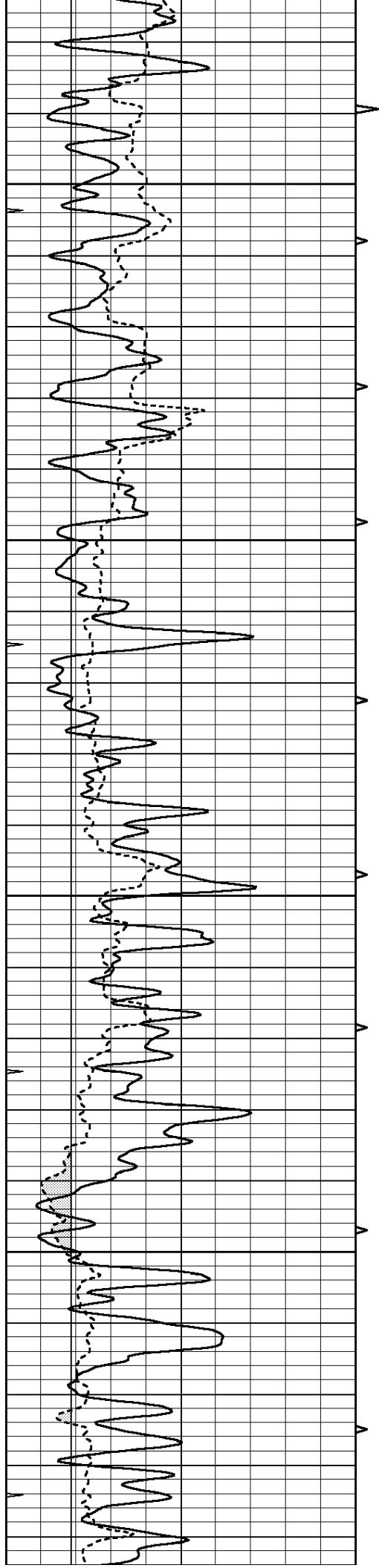
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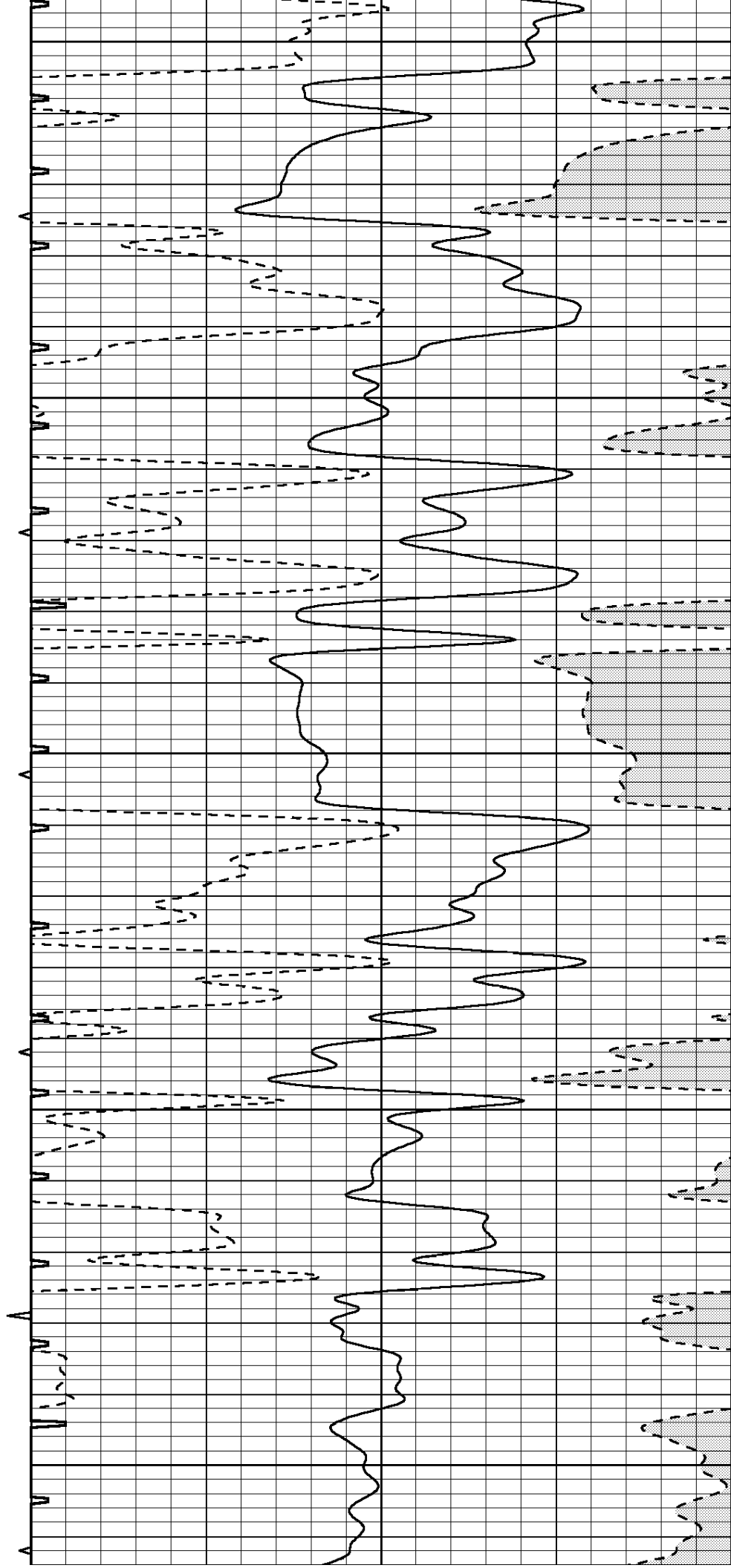
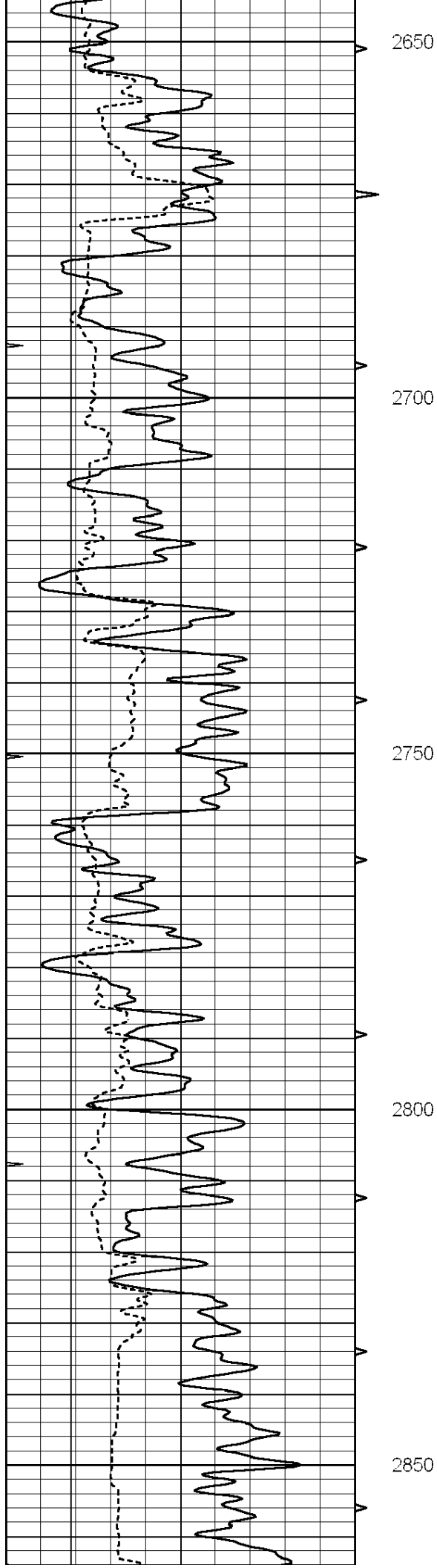
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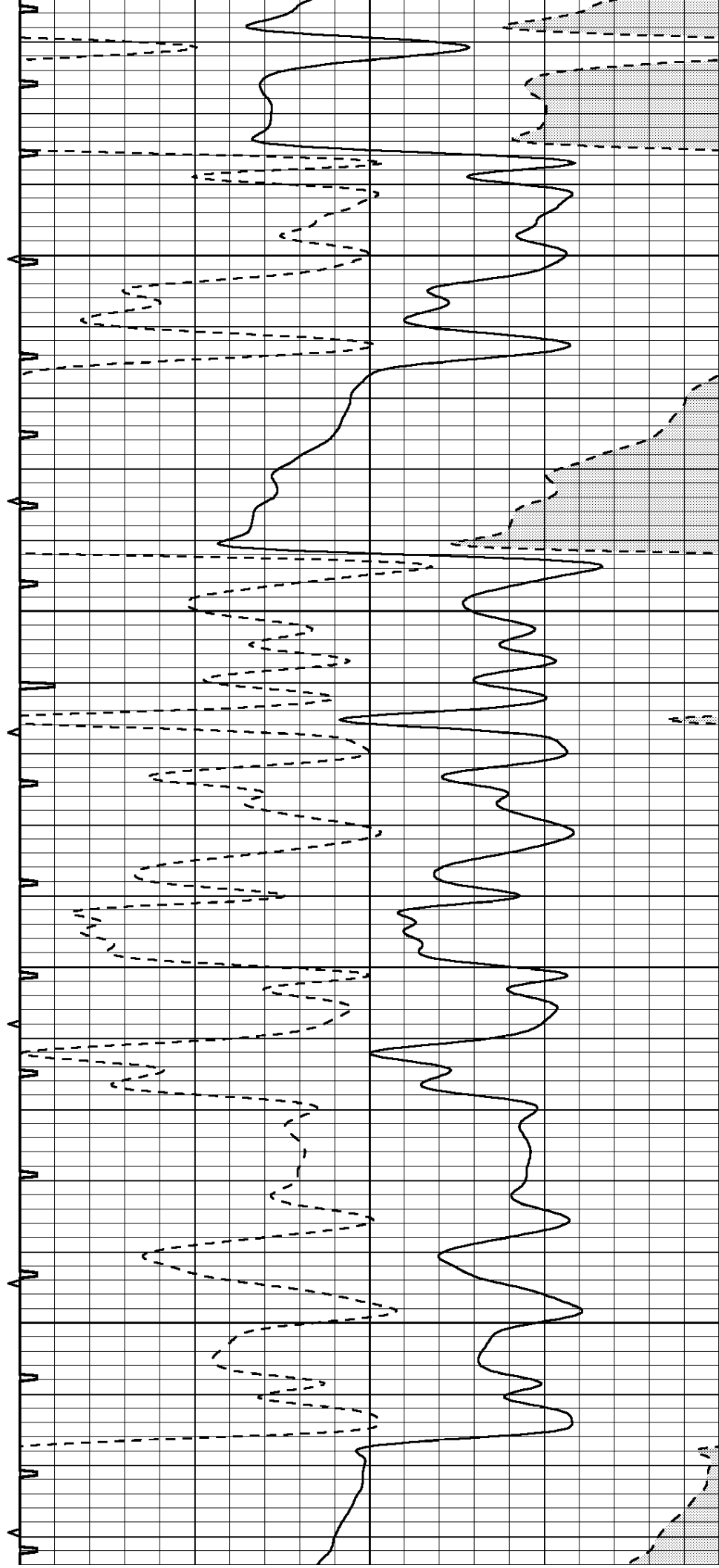
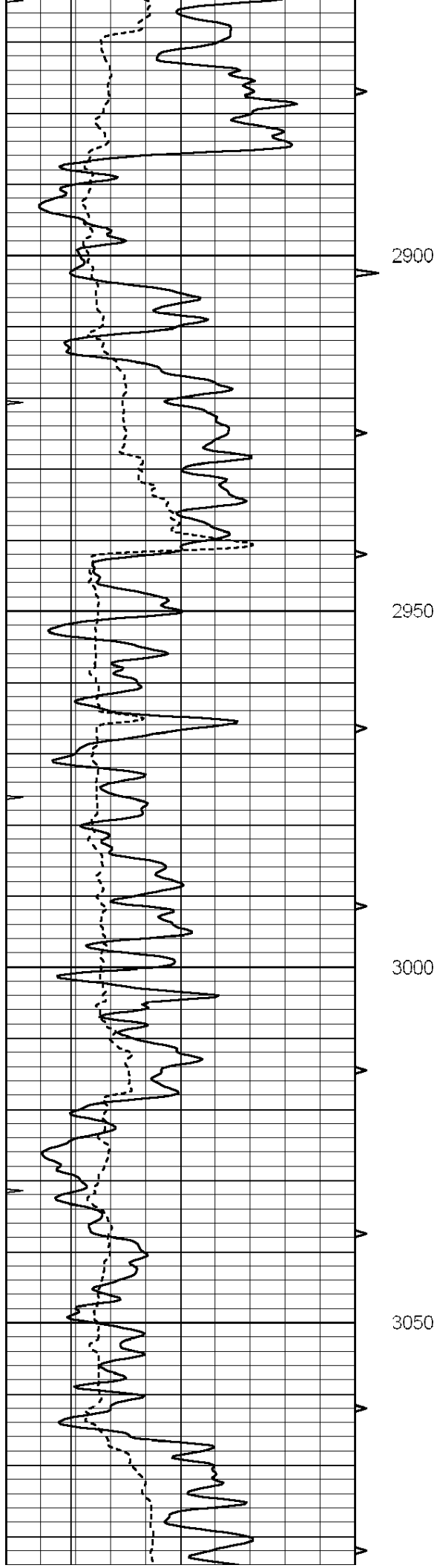
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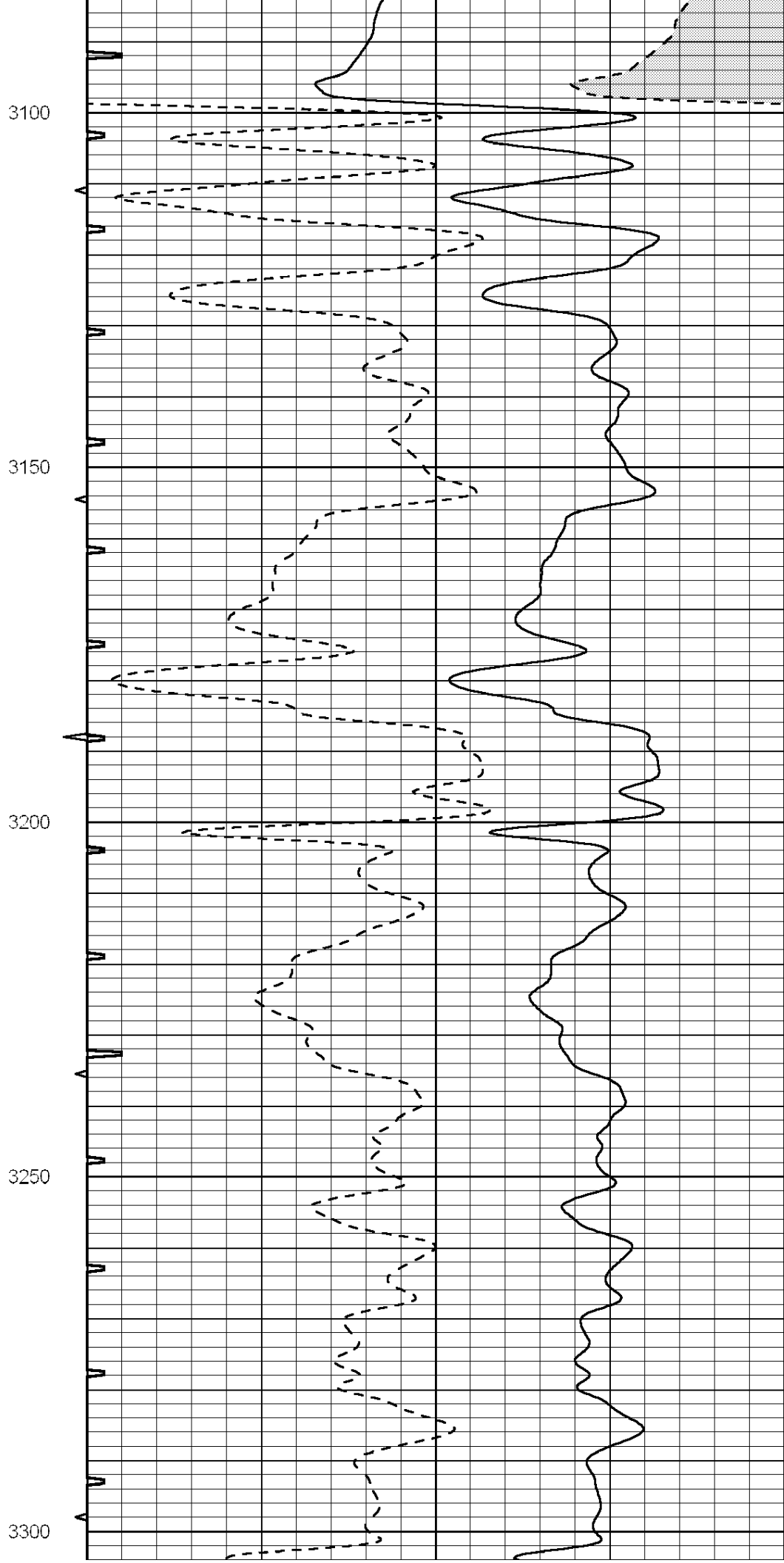
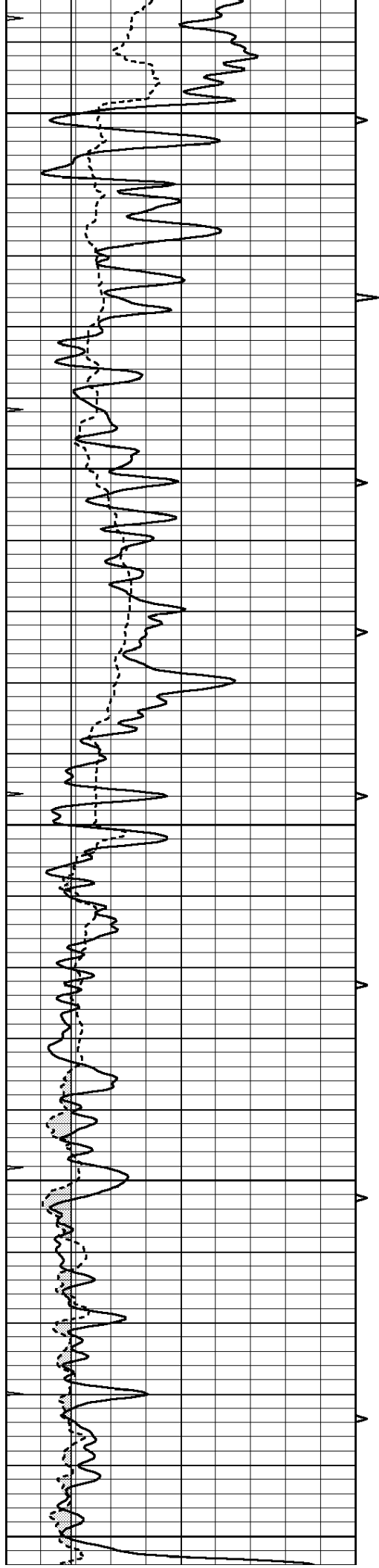
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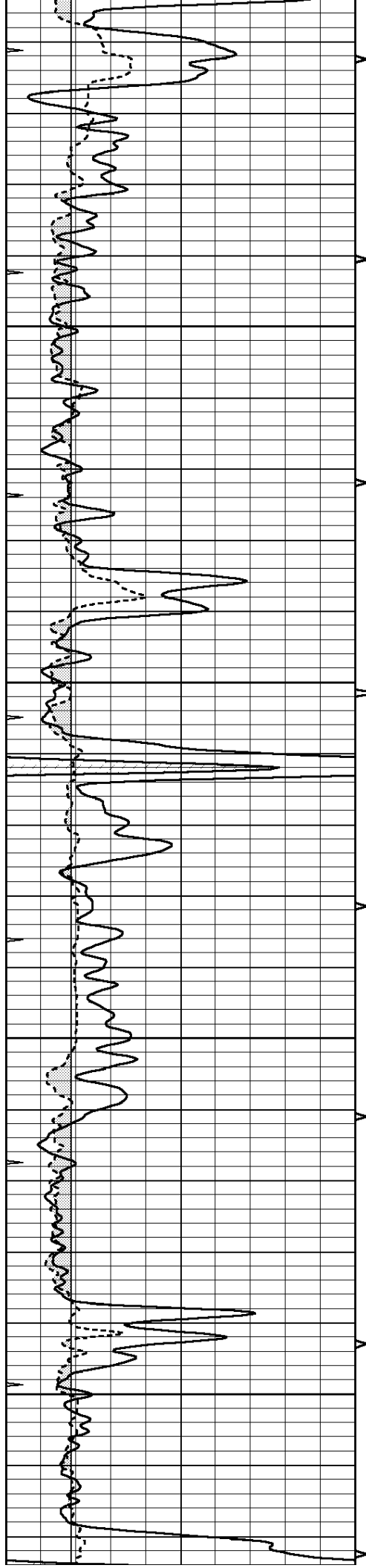










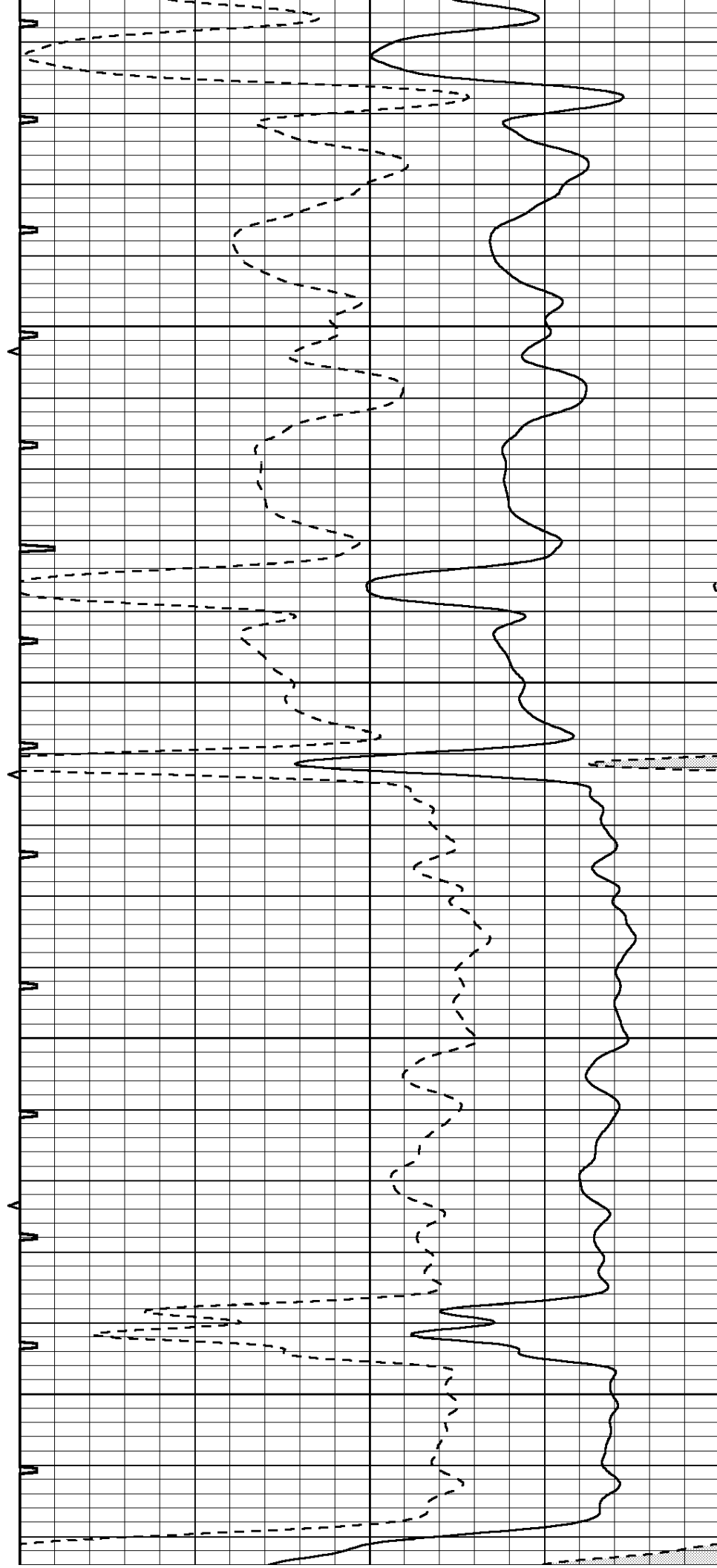


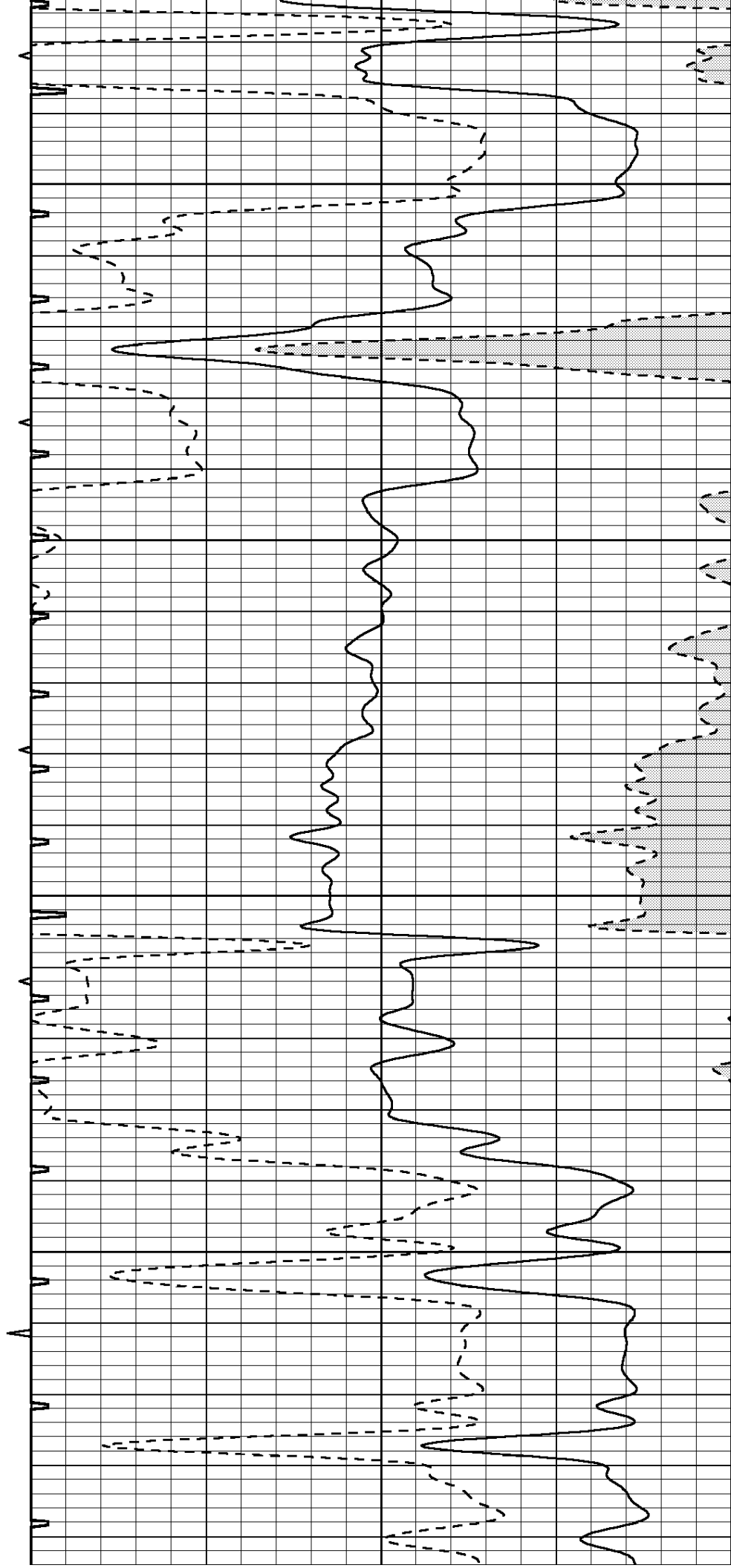
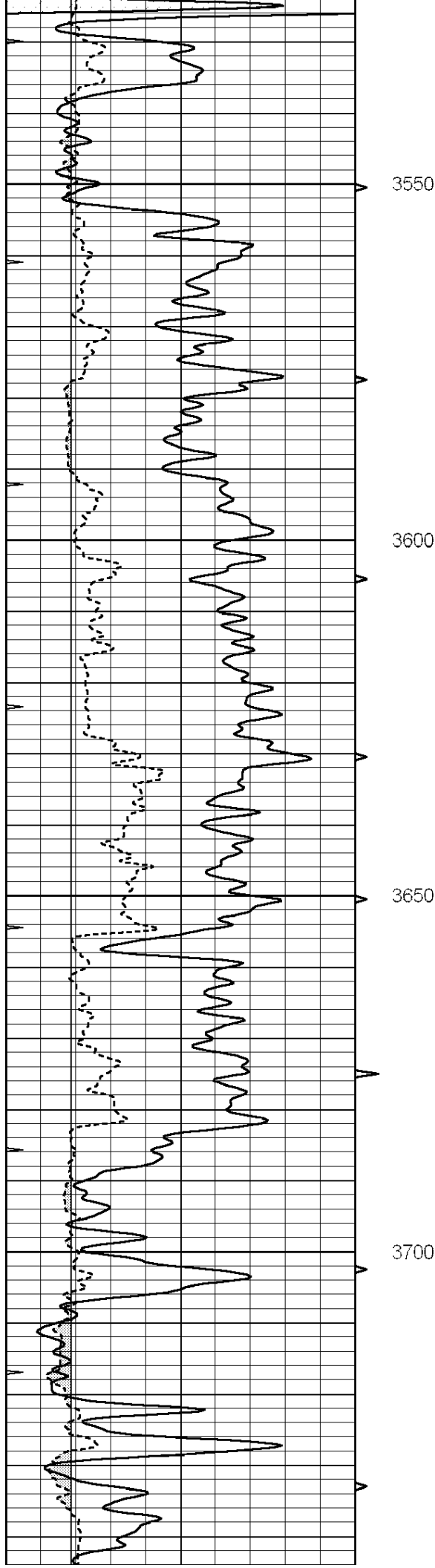
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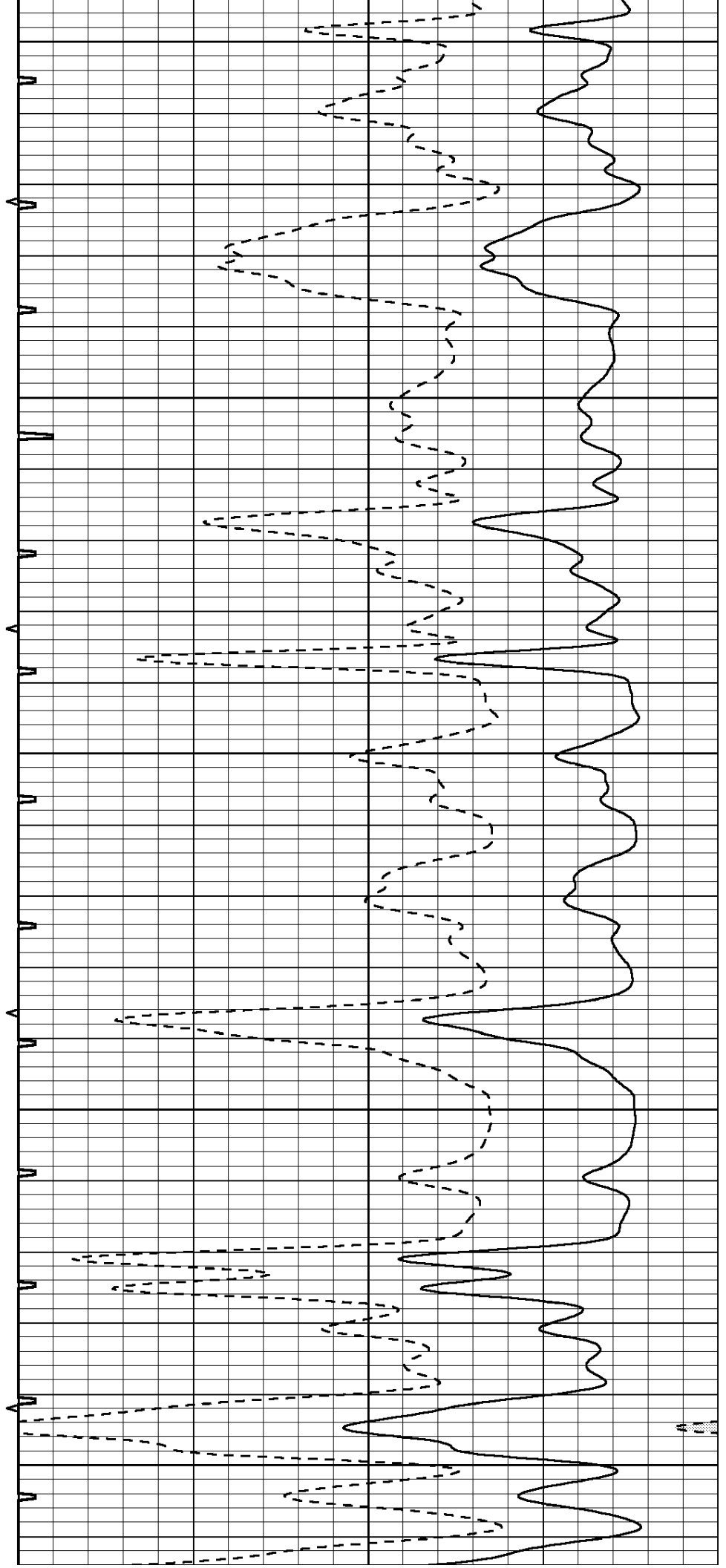
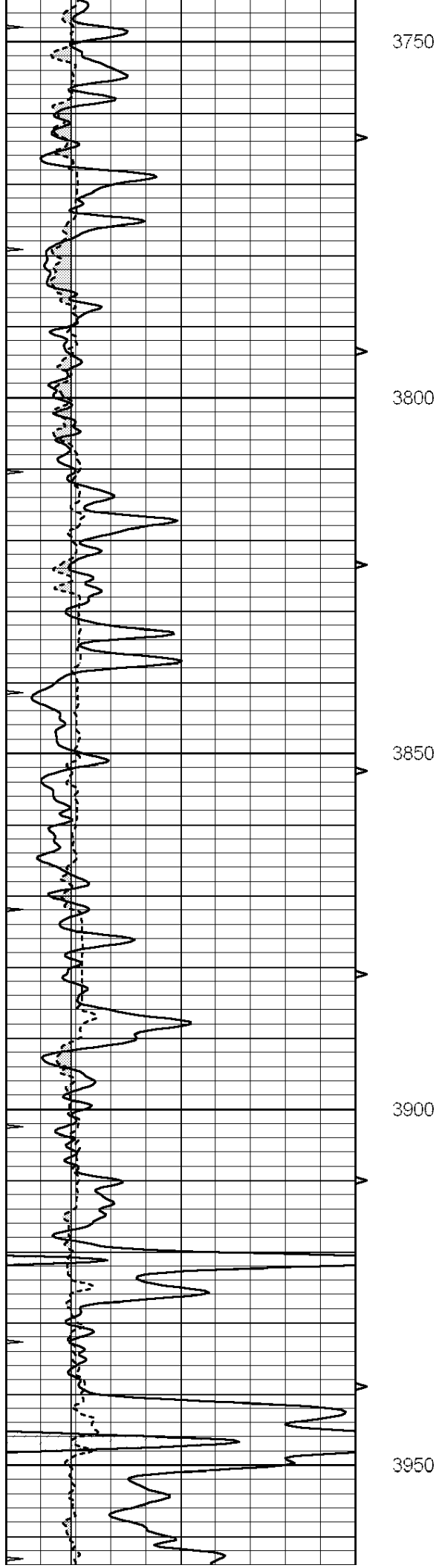
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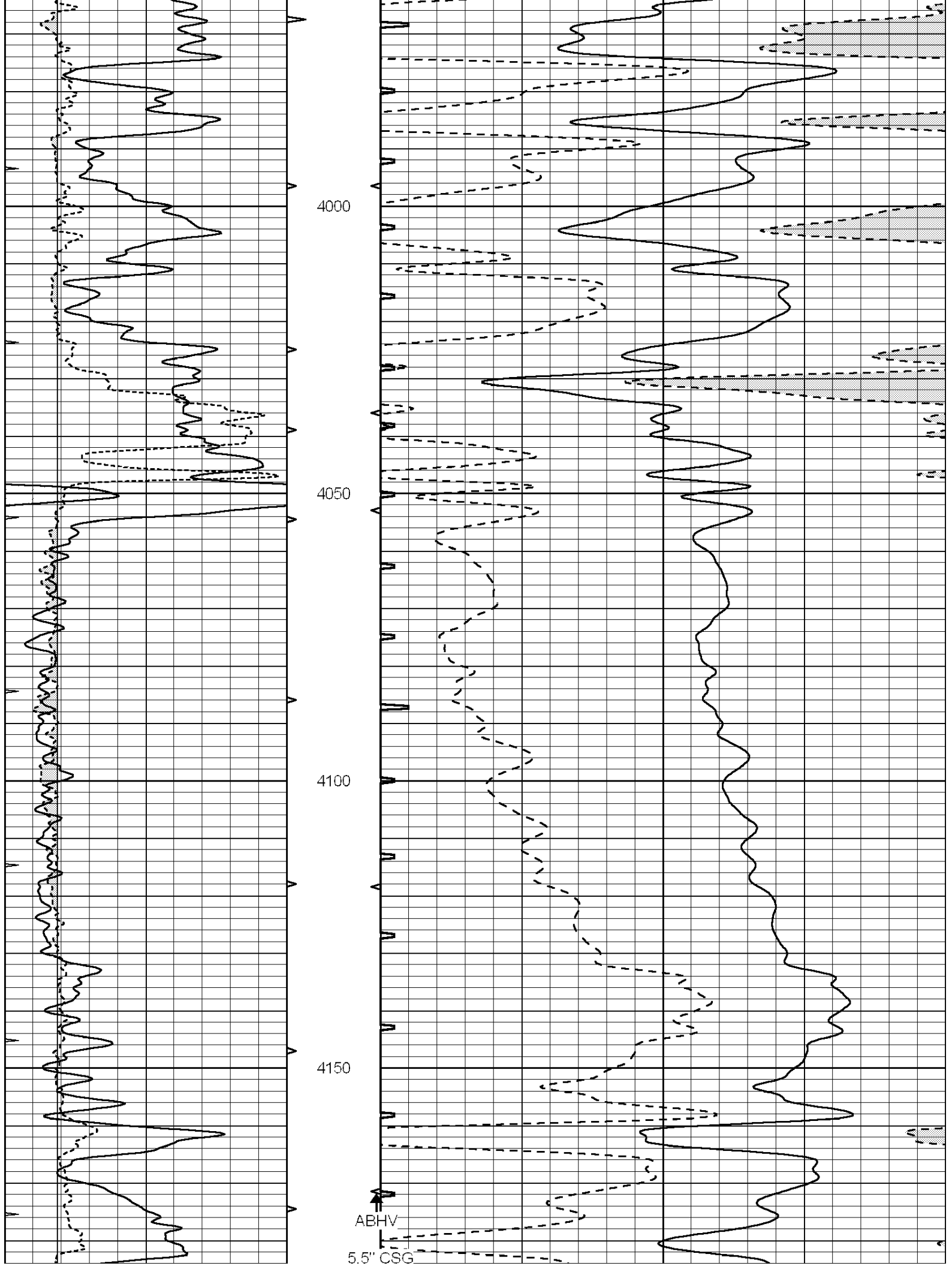
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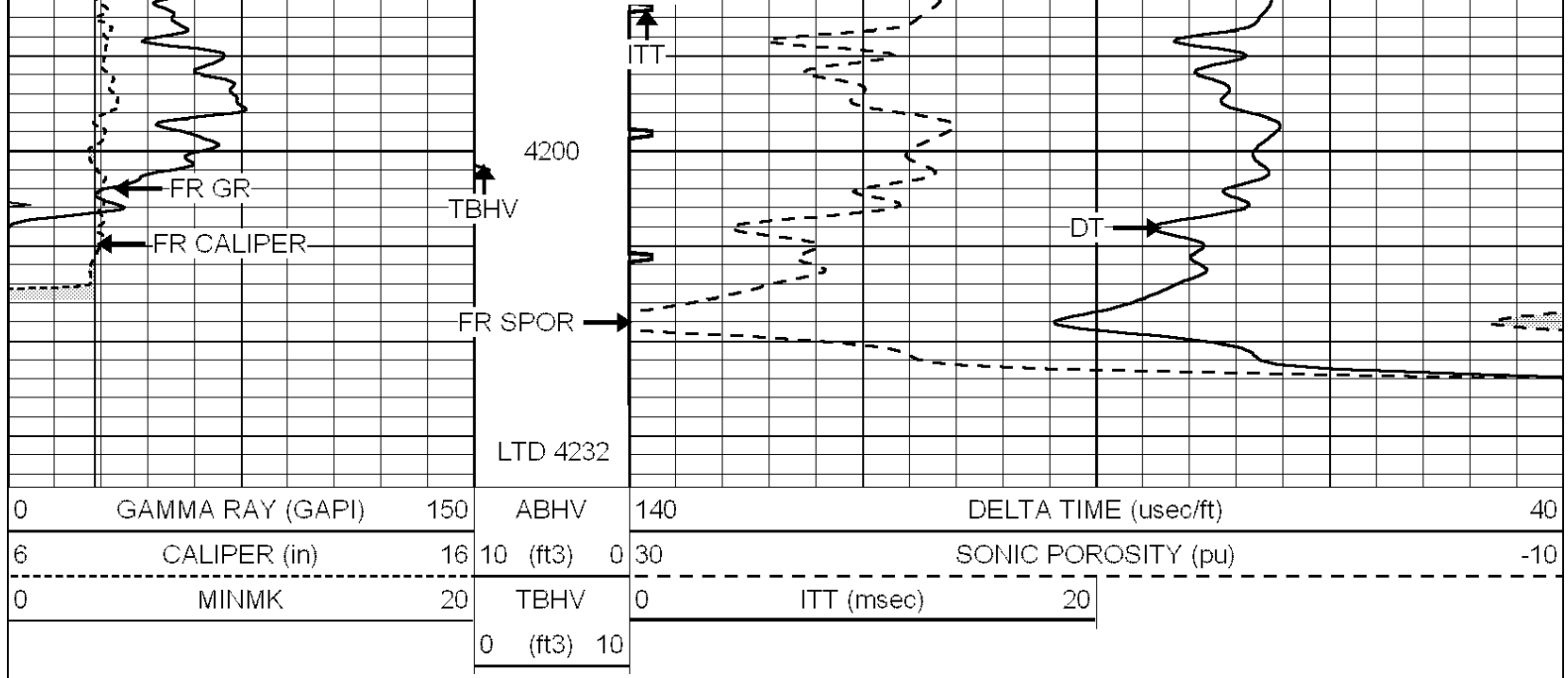
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REPEAT SECTION

Database File: 010037pe.db
 Dataset Pathname: pass6.1
 Presentation Format: _slt
 Dataset Creation: Sat Dec 22 21:08:30 2012 by Calc SOC 120430
 Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	ABHV	140	DELTA TIME (usec/ft)	40
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0	MINMK	20	TBHV	0	ITT (msec)	20
			0 (ft3)	10		

