



NABORS

**COMPLETION
& PRODUCTION
SERVICES CO.**

**SONIC
LOG**

Company		LIBERTY OPER. & COMPL. INC.	
Well		CHAROLAIS #1	
Field		BEMIS - SHUTTS	
County		ELLIS	
State		KANSAS	
Company		LIBERTY OPERATIONS & COMPLETIONS, INC.	
Well		CHAROLAIS #1	
Field		BEMIS - SHUTTS	
County		ELLIS	
State		KANSAS	
Location:		API # : 15-051-26607-0000	
Permanent Datum		GROUND LEVEL	
Log Measured From		KELLY BUSHING 5' A.G.L.	
Drilling Measured From		KELLY BUSHING	
SEC 5		TWP 11S	
RGE		17W	
Other Services		CDL/CNL/PE	
DIL/SONIC		Elevation	
K.B. 1962		D.F. 1960	
G.L. 1957			
Date	10/4/13		
Run Number	TWO		
Depth Driller	3610		
Depth Logger	3606		
Bottom Logged Interval	3594		
Top Log Interval	200		
Casing Driller	8 5/8"@222'		
Casing Logger	222		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 7,500 PPM	
Density / Viscosity	9.3/55		
pH / Fluid Loss	10.0/8.8		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	.850@80F		
Rmf @ Meas. Temp	.638@80F		
Rmc @ Meas. Temp	1.02@80F		
Source of Rmf / Rmc	MEASUREMENT		
Rim @ BHT	.602@113F		
Time Circulation Stopped	4 HOURS		
Time Logger on Bottom	10:45 A.M.		
Maximum Recorded Temperature	113F		
Equipment Number	4854		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	TONY RICHARDSON	ROGER COMEAU	

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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
TURKVILLE SCHOOL, E. SIDE TO "TOULON RD.", 2 1/2N., E. INTO UP HILL



**COMPLETION
& PRODUCTION**

MAIN SECTION

Database File:

011681pe.db

Dataset Pathname:

pass6.9

Presentation Format:

slt

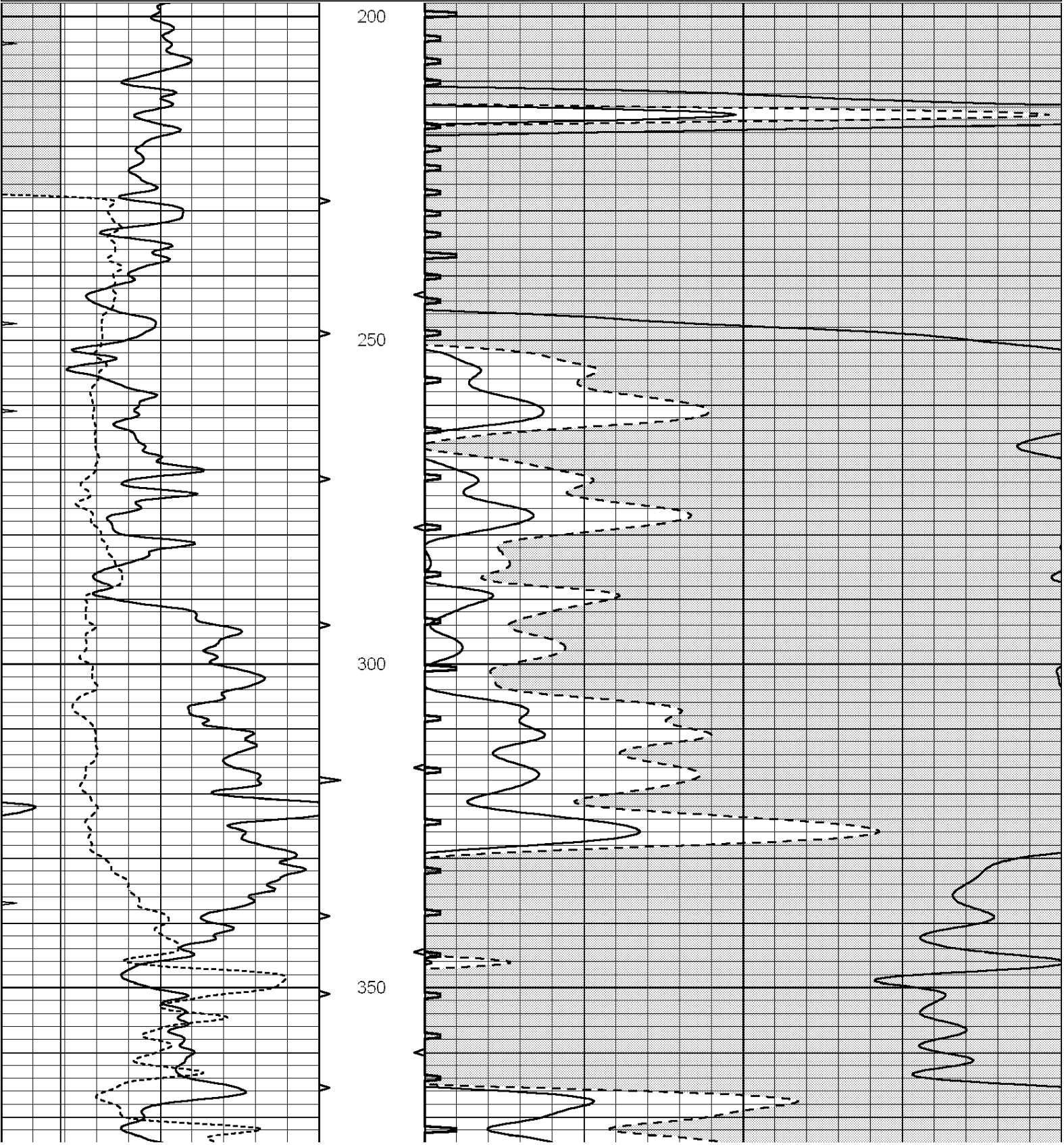
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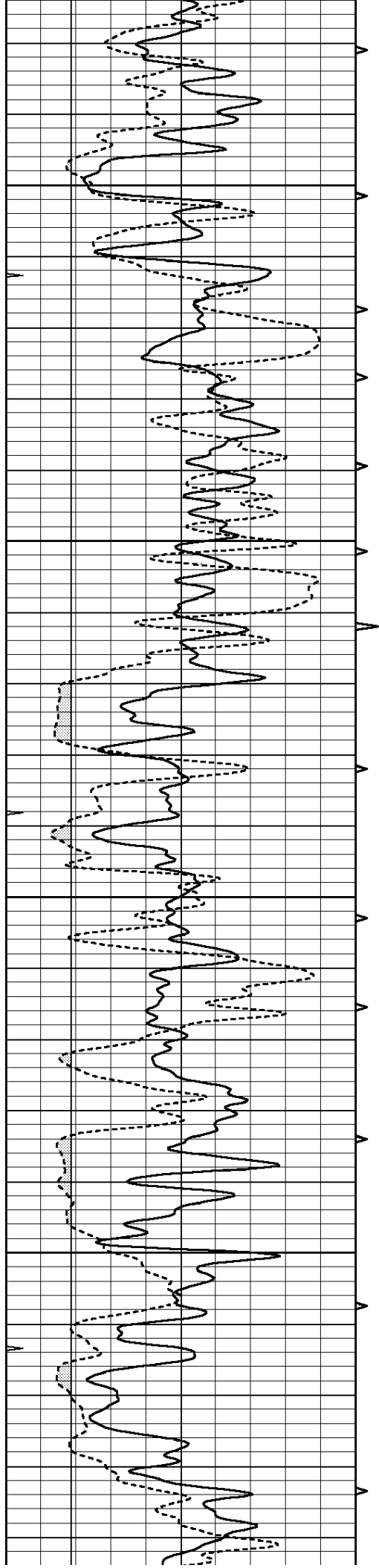
Fri Oct 04 14:02:37 2013

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			



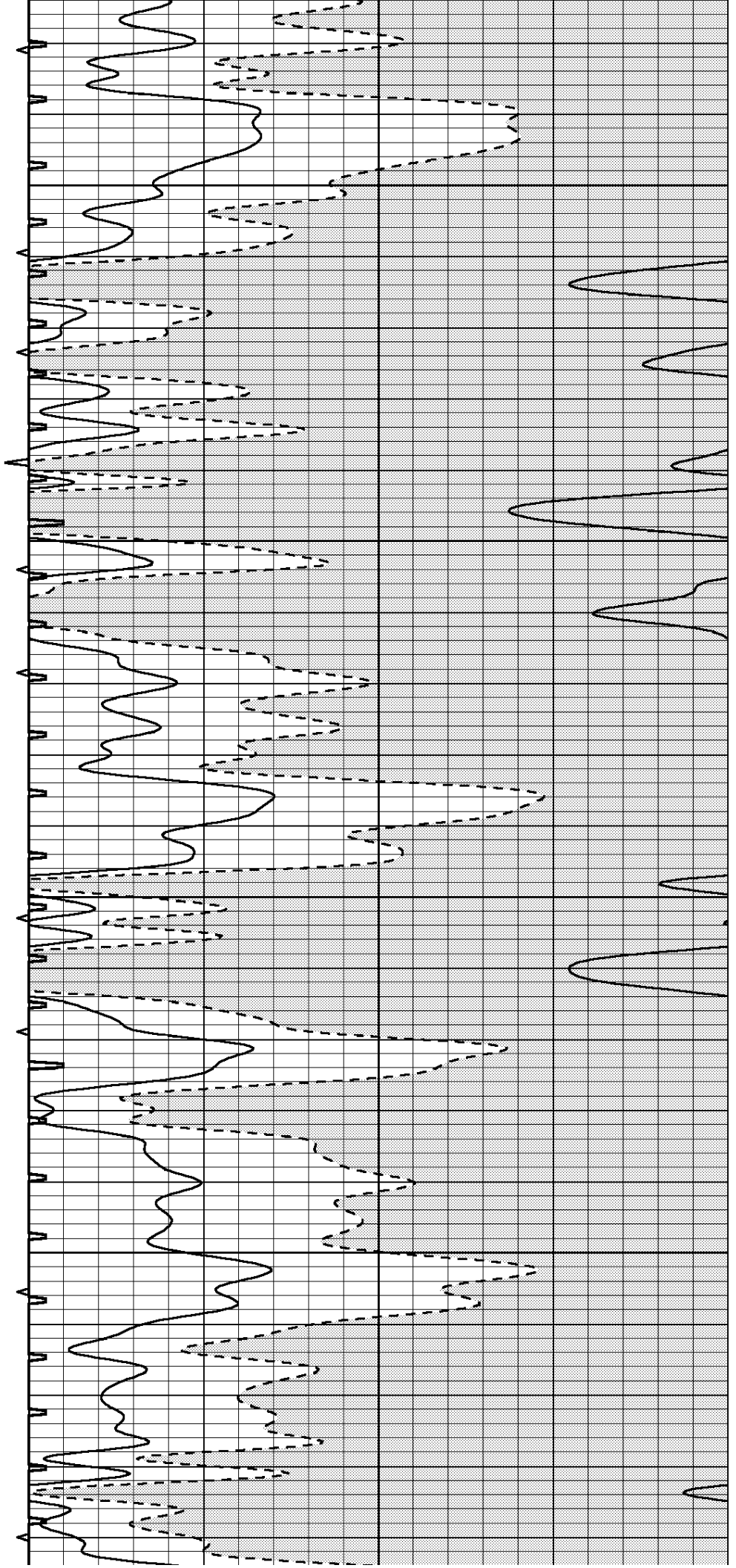


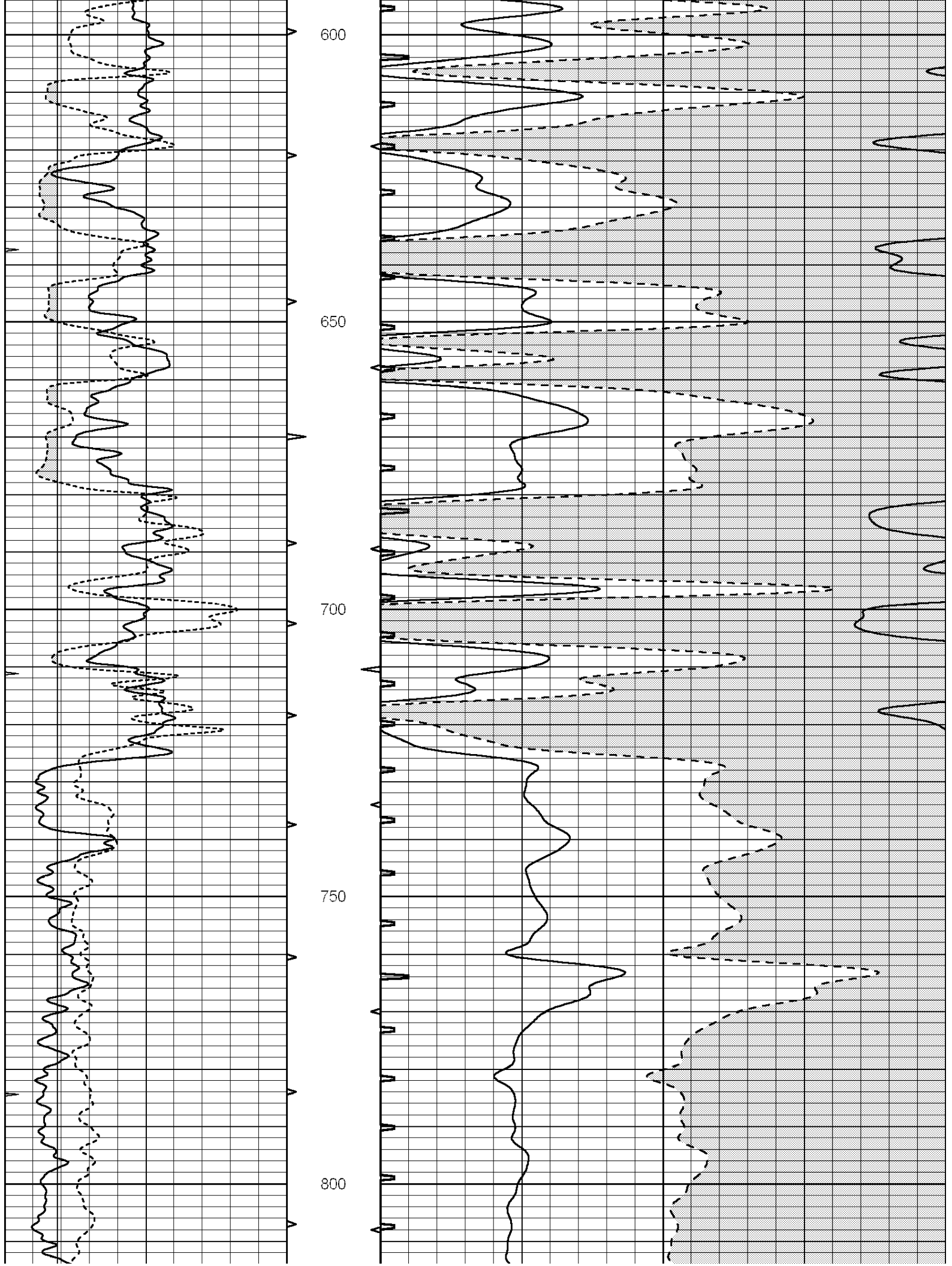
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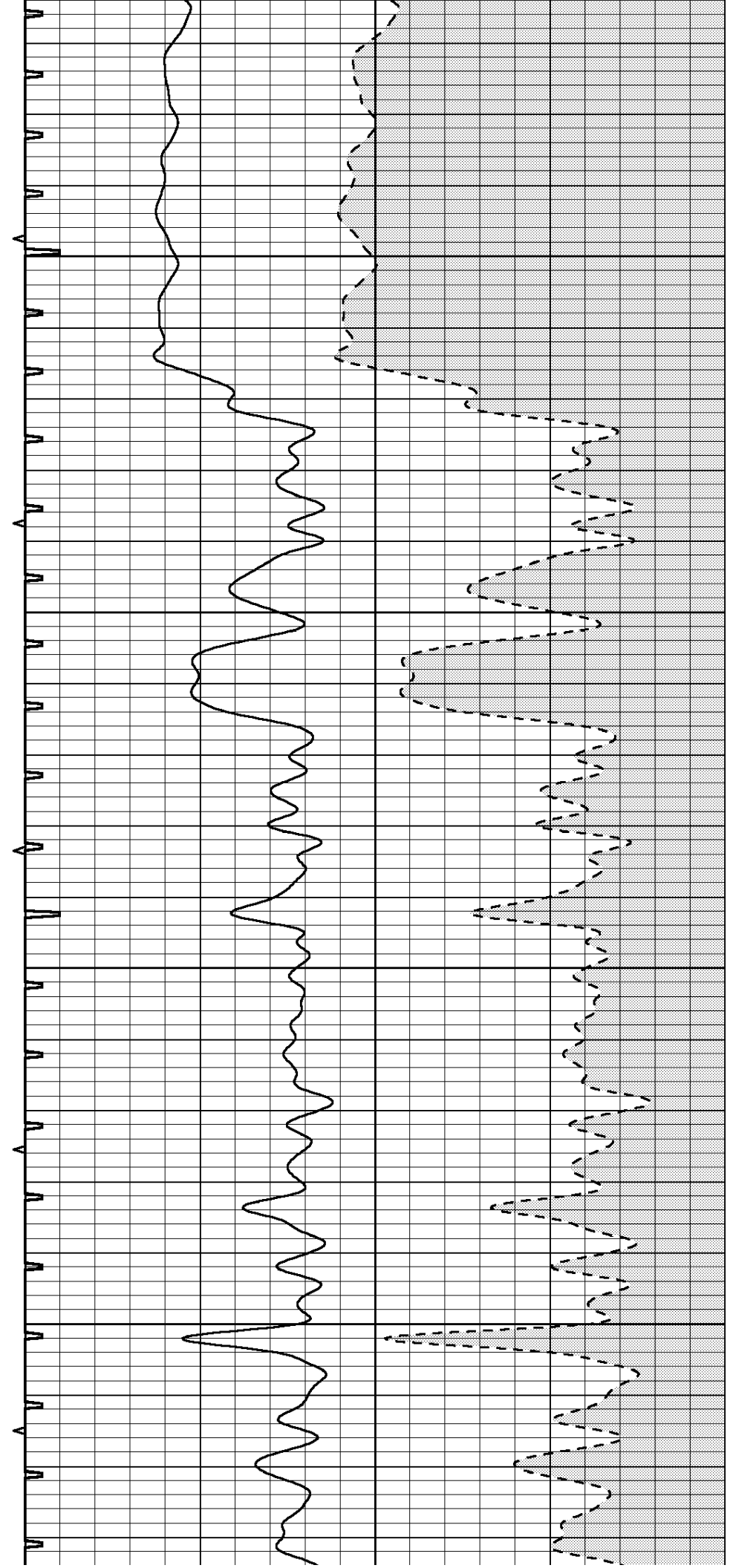
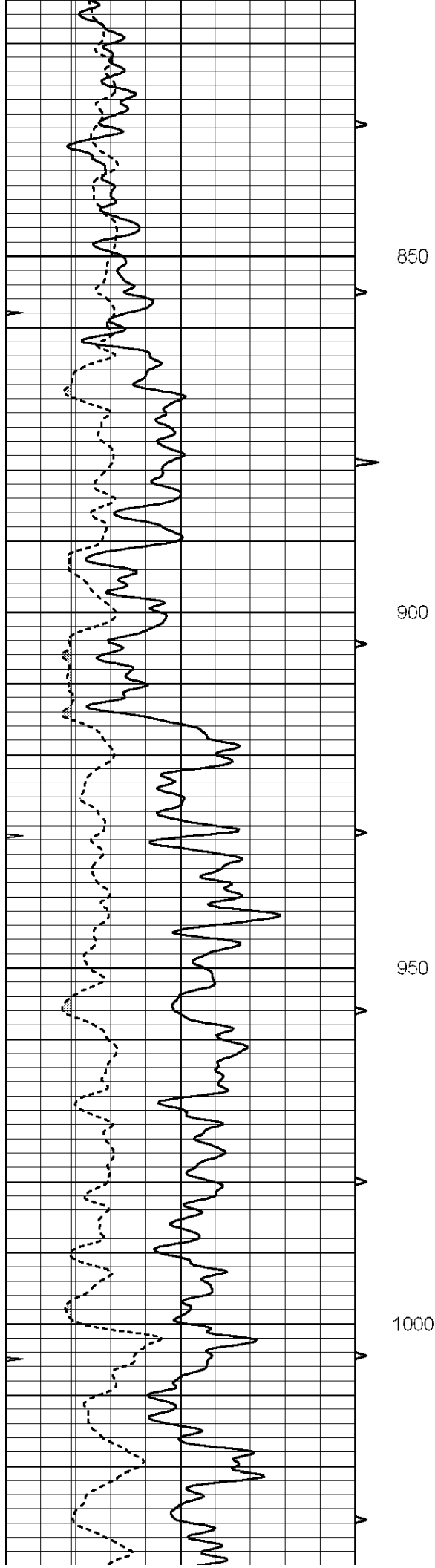
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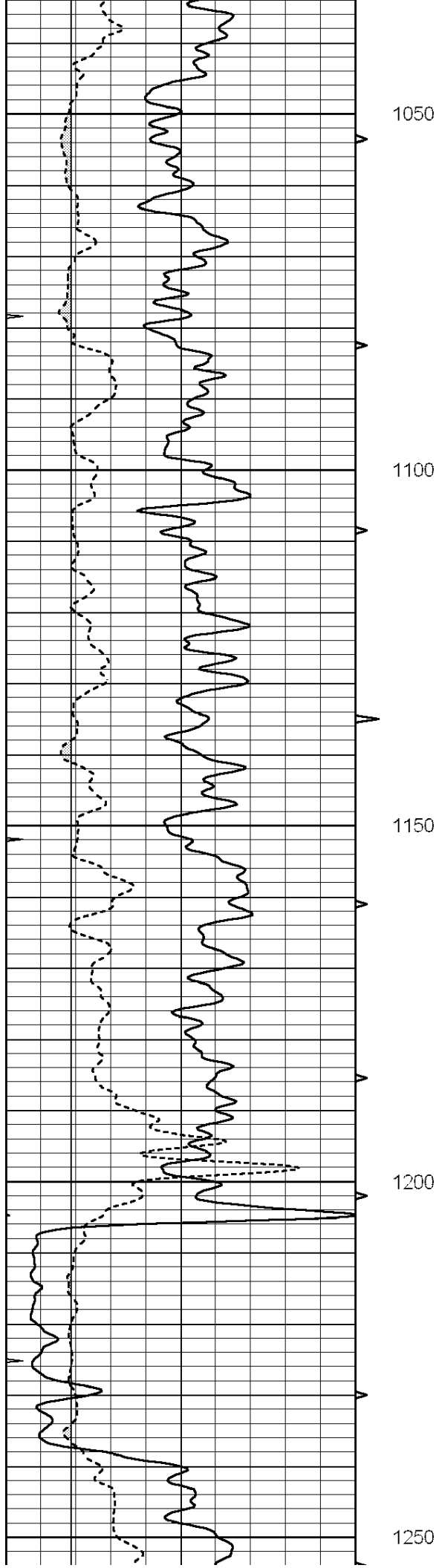
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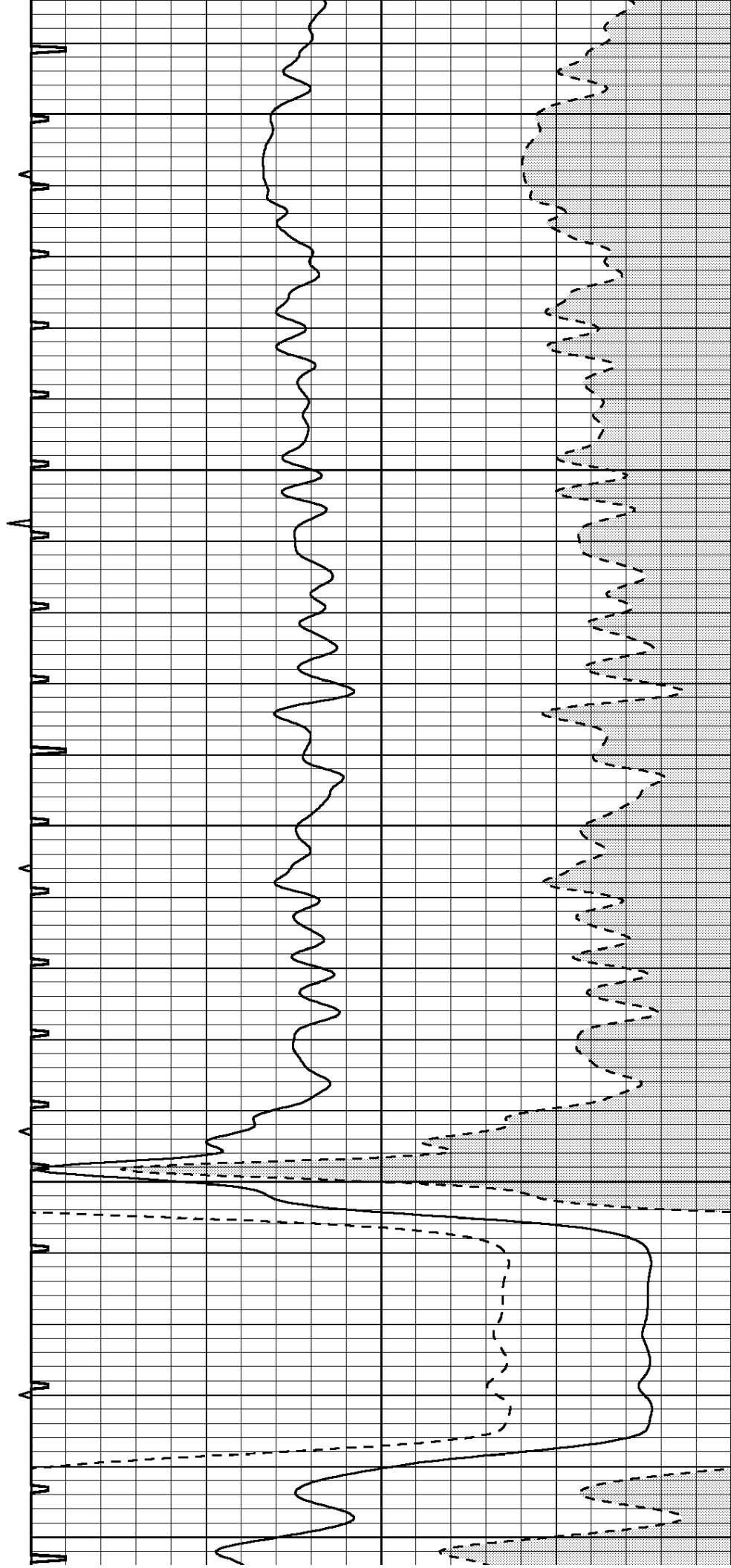
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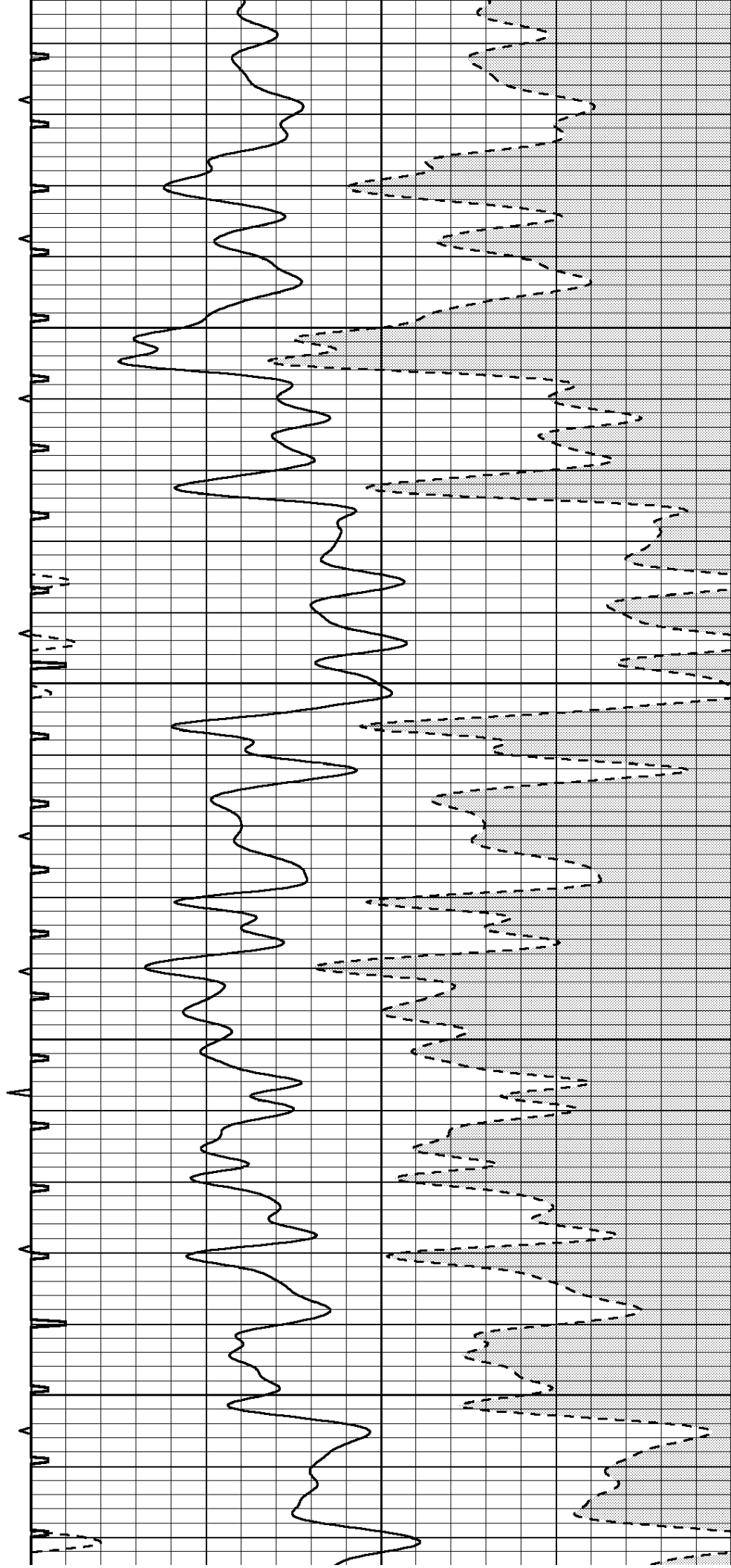
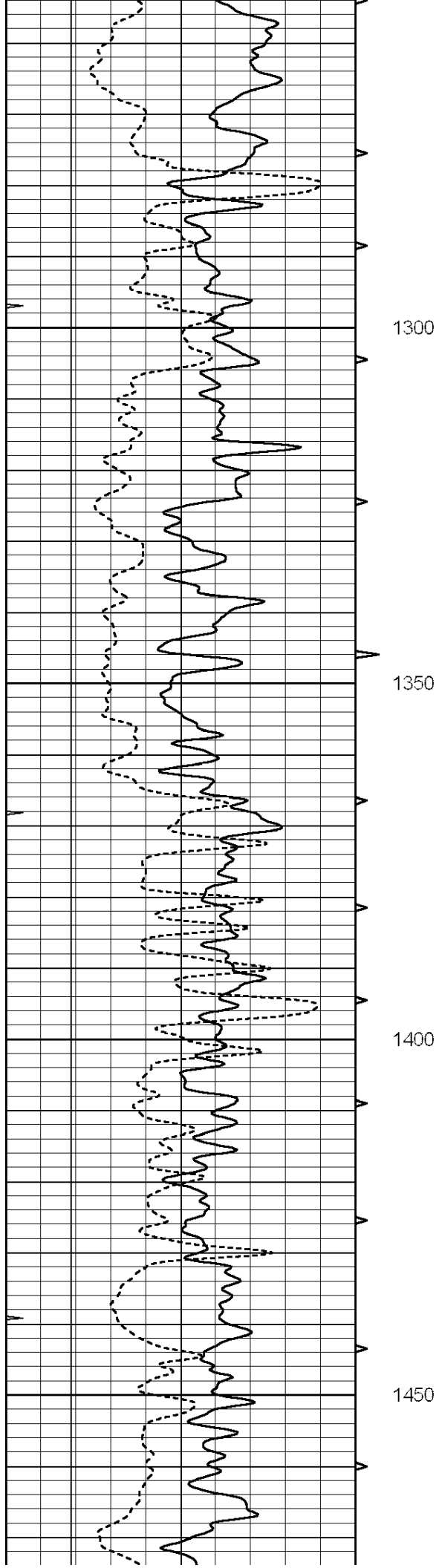
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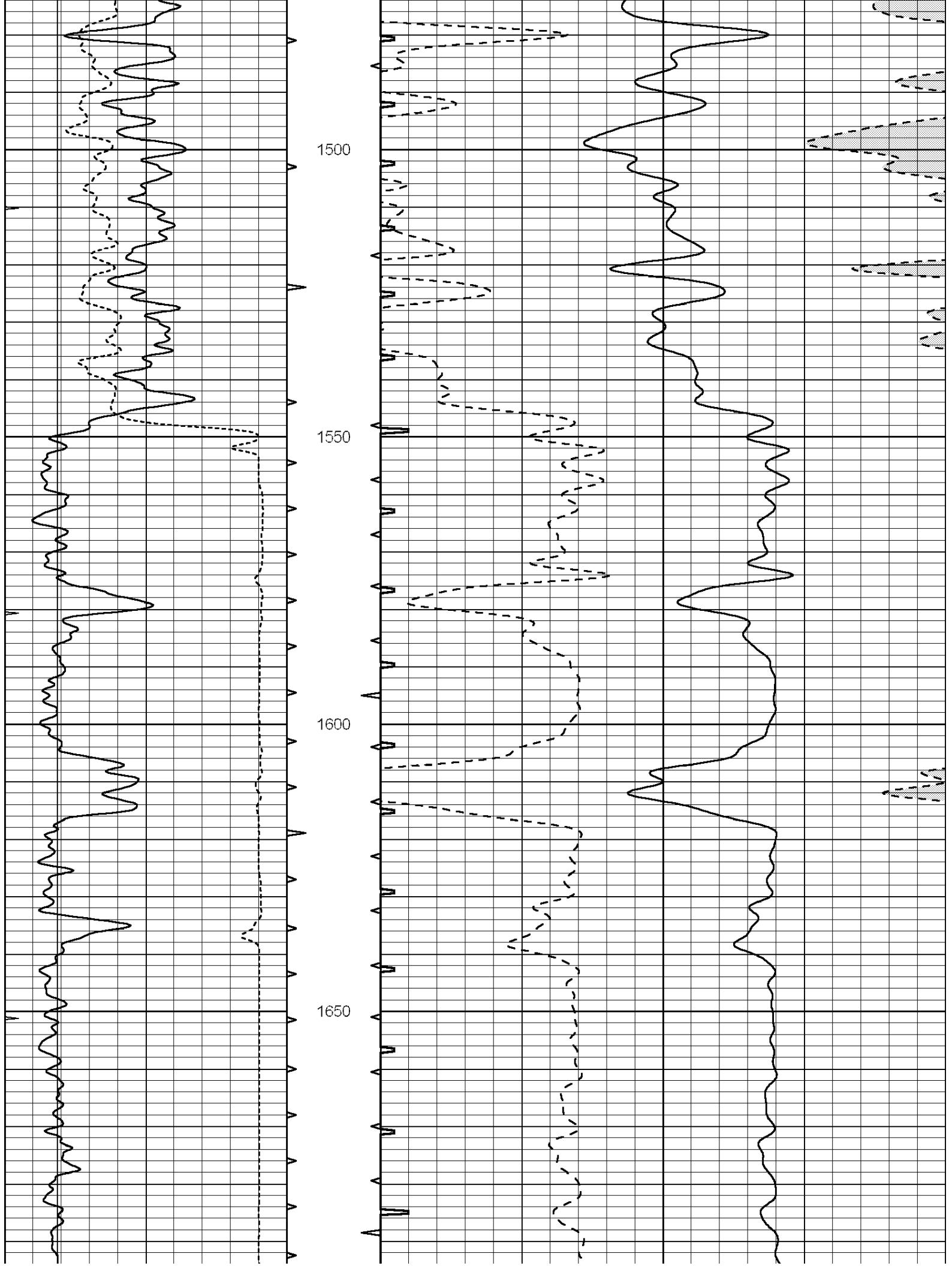
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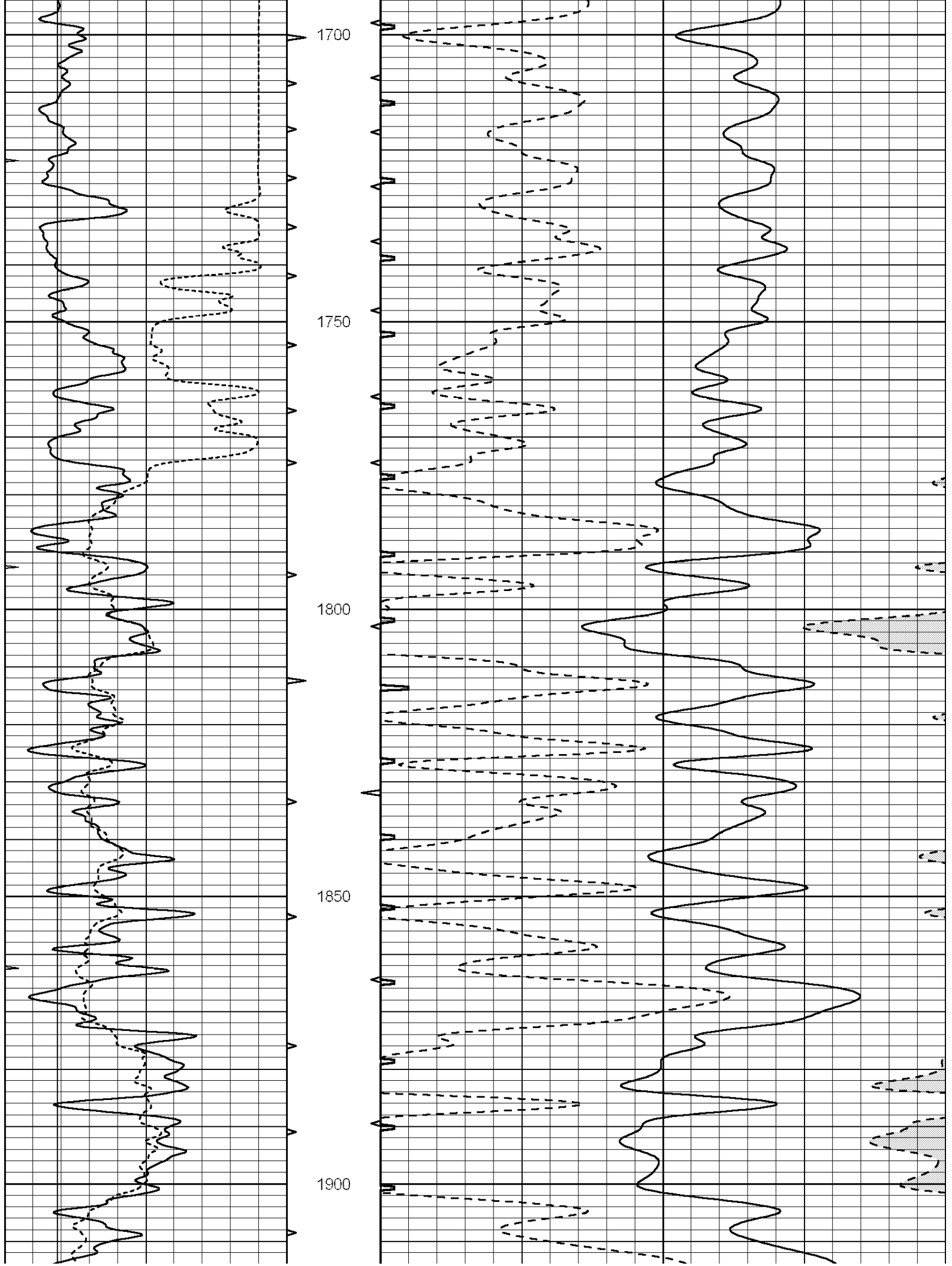
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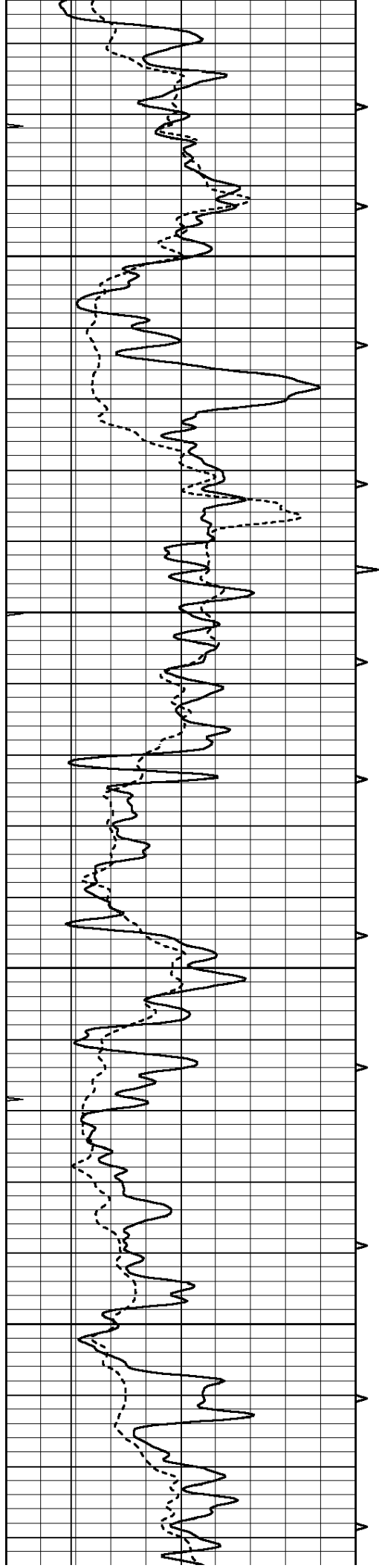
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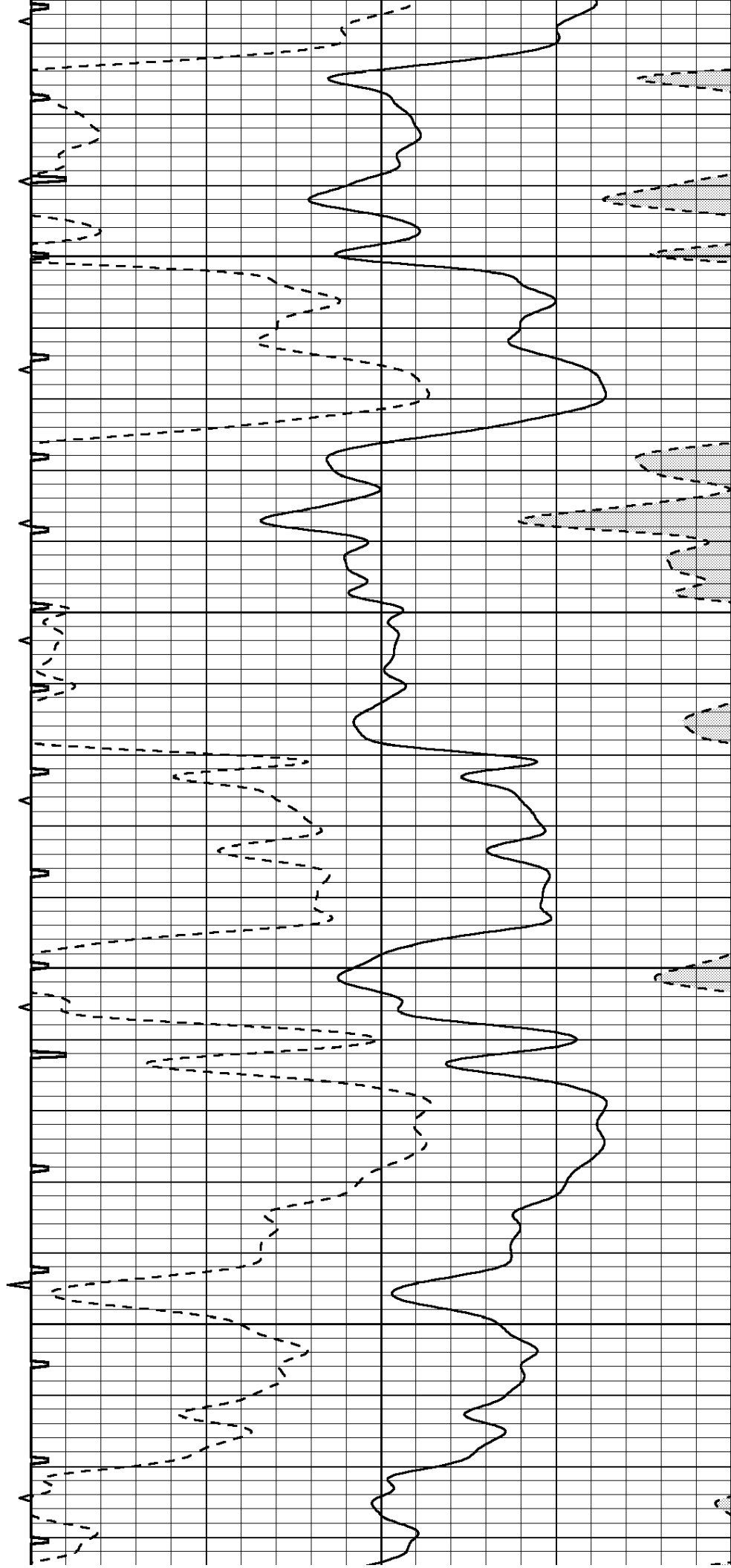


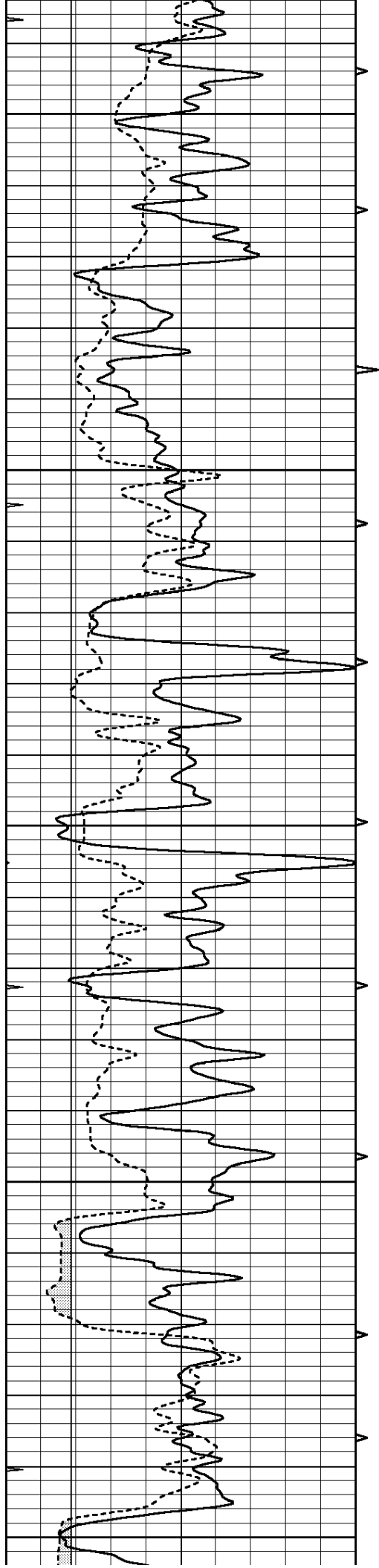
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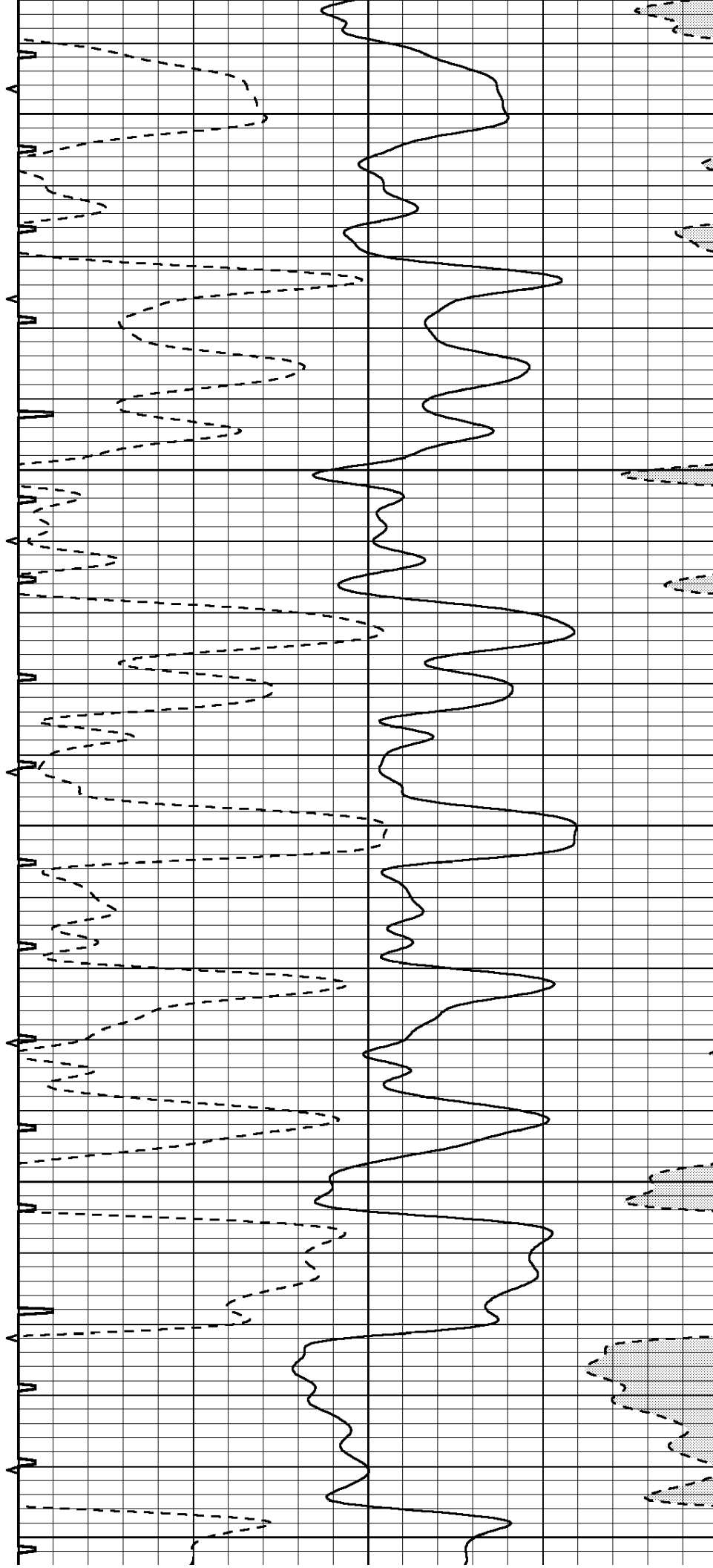
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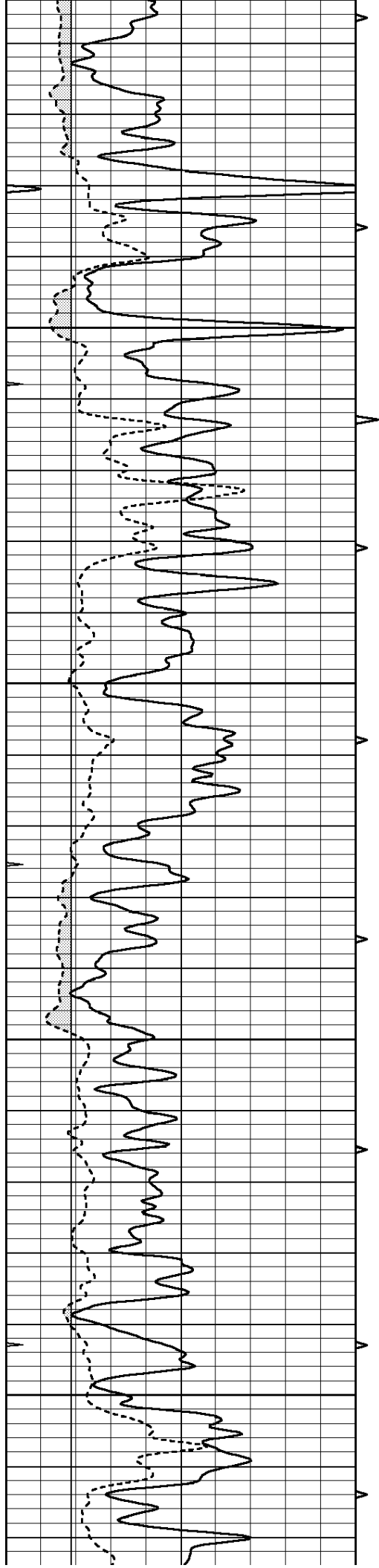
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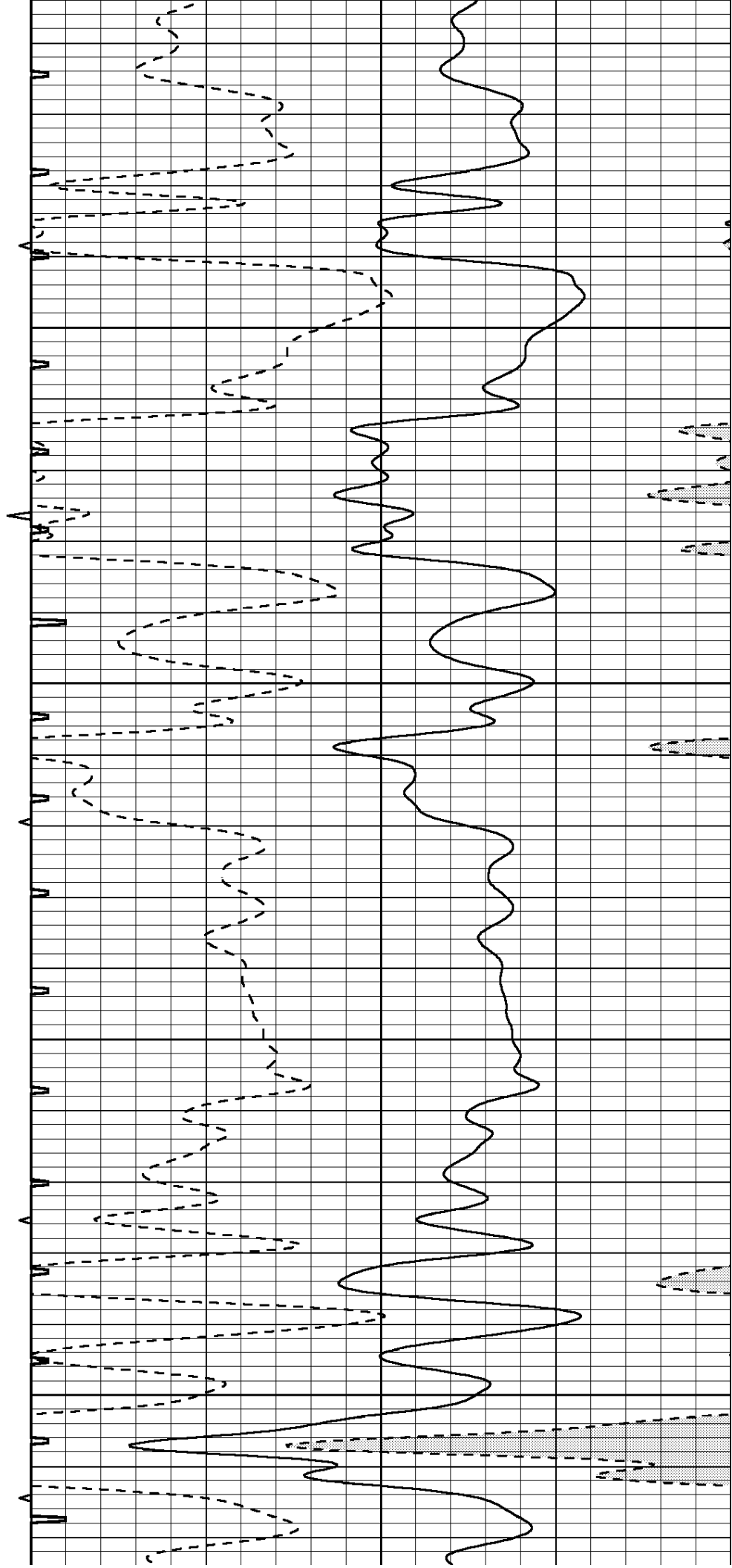


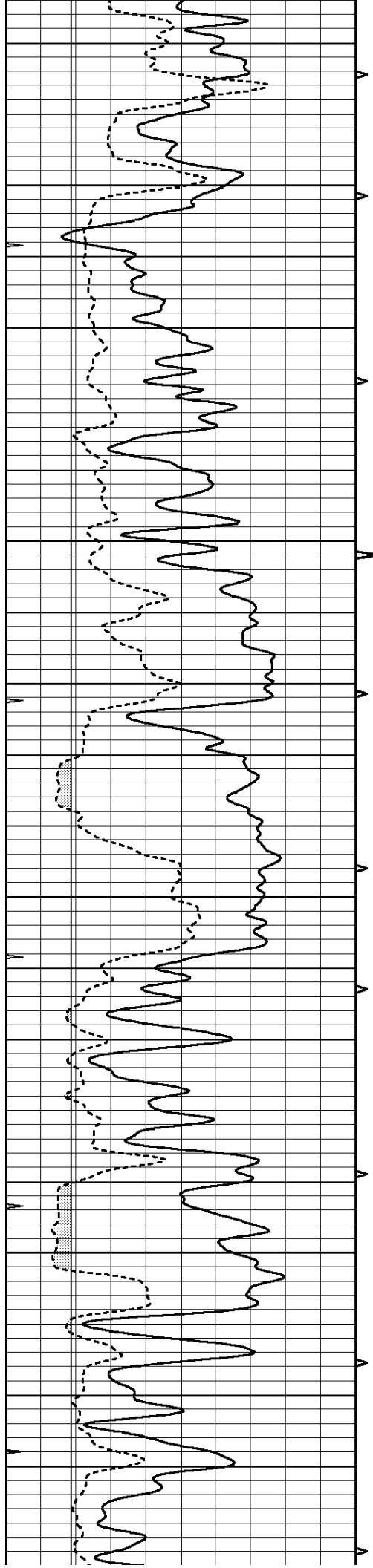
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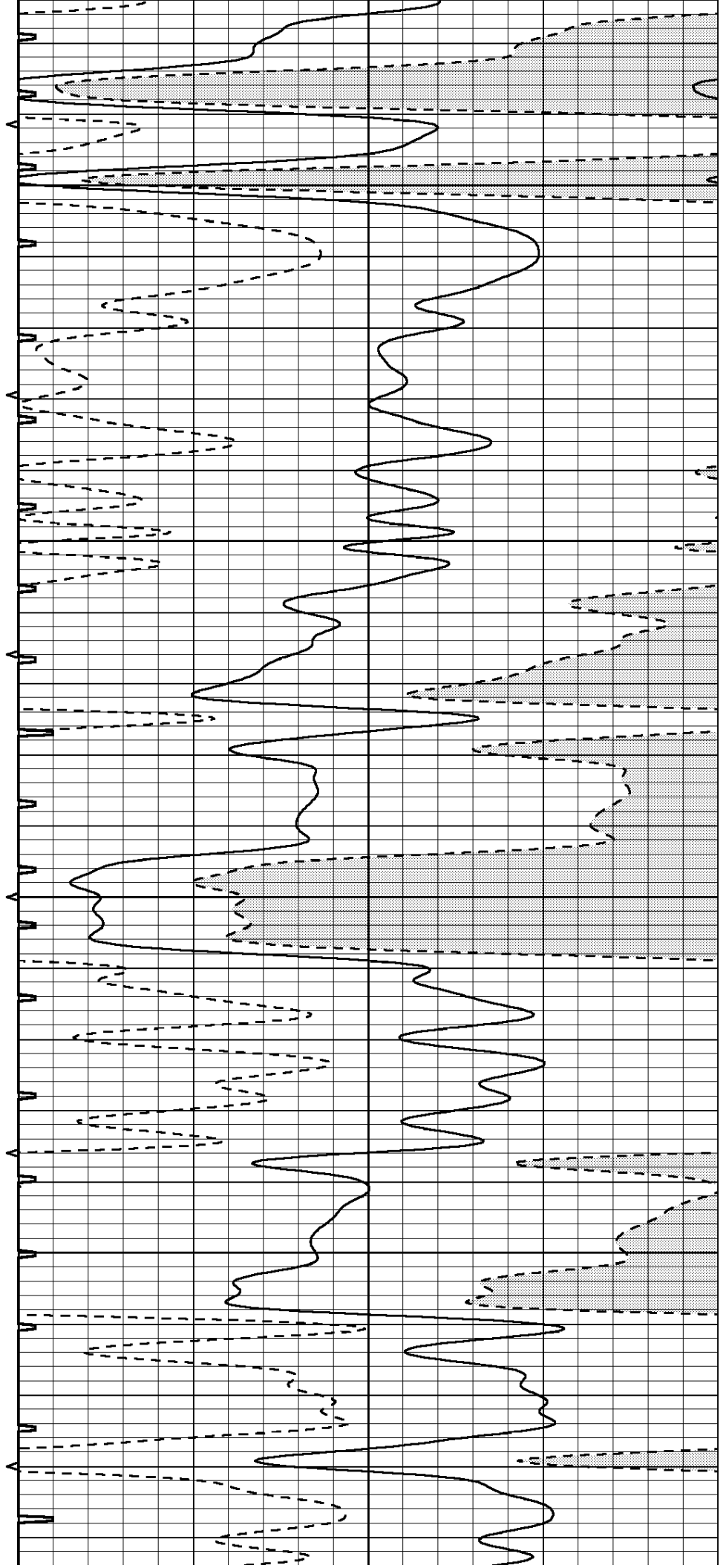


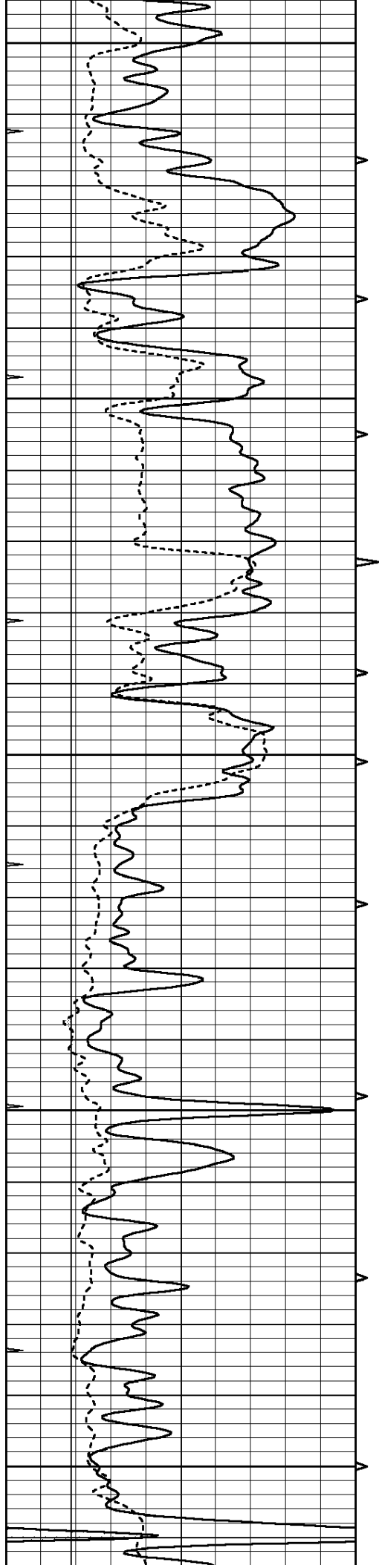
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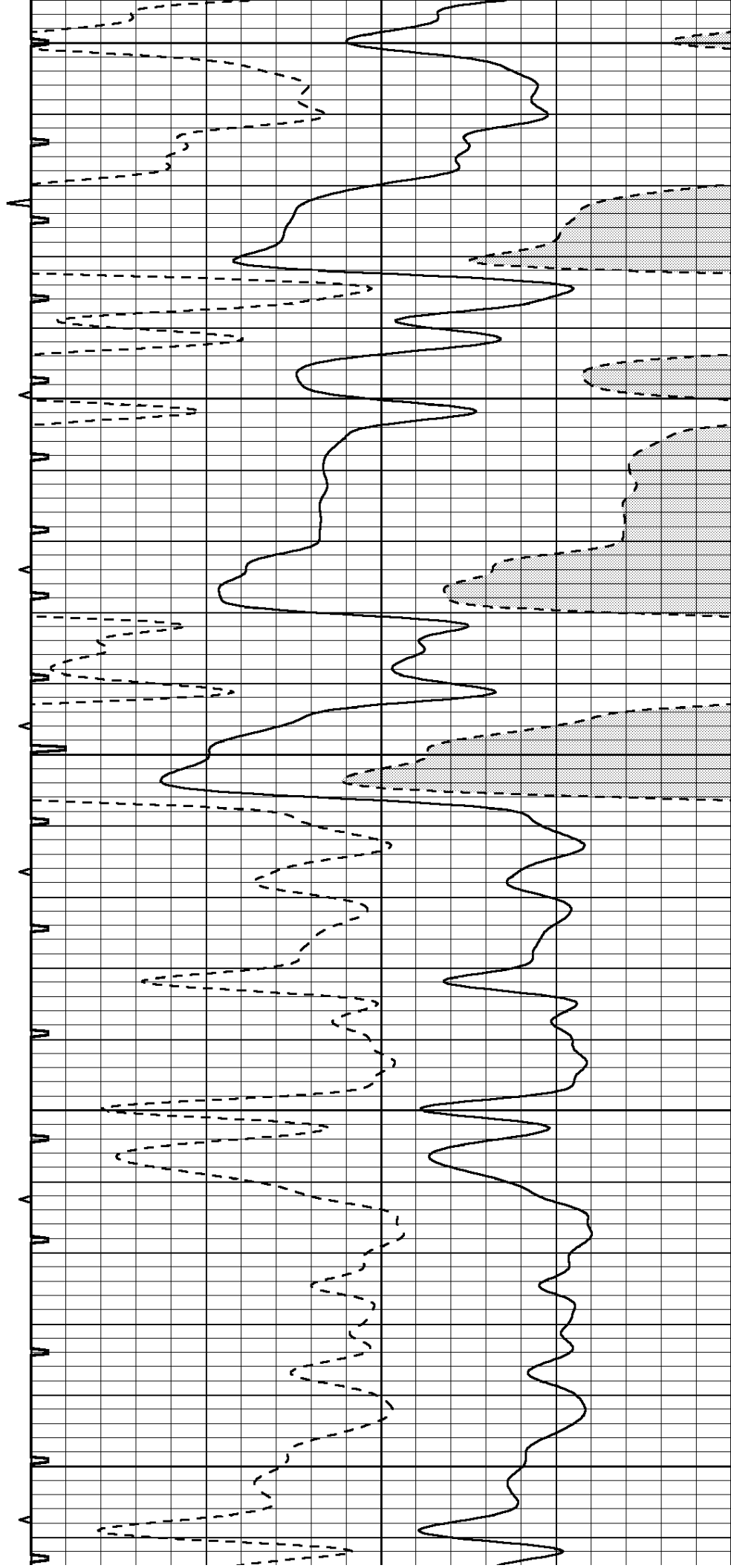
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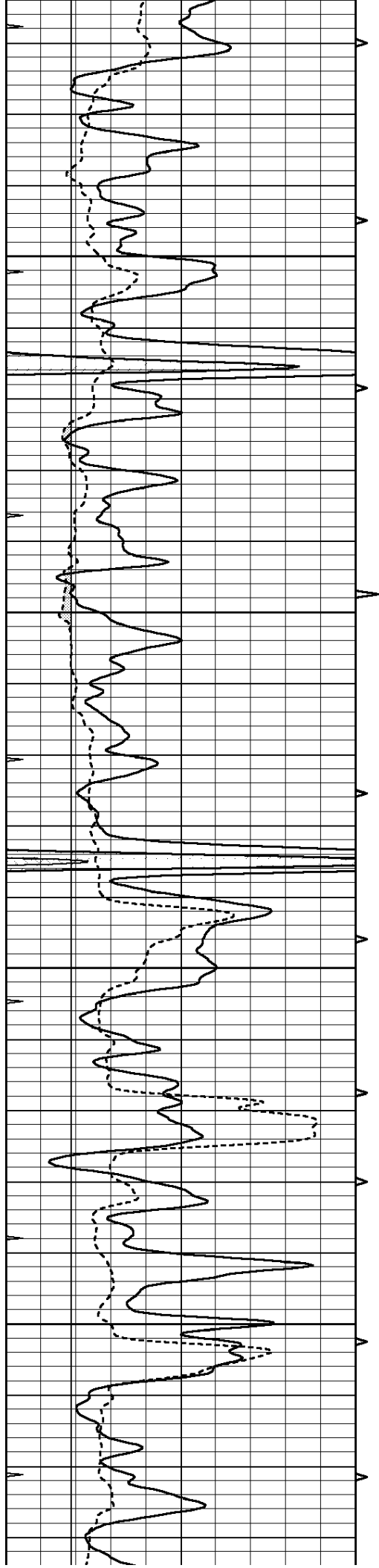
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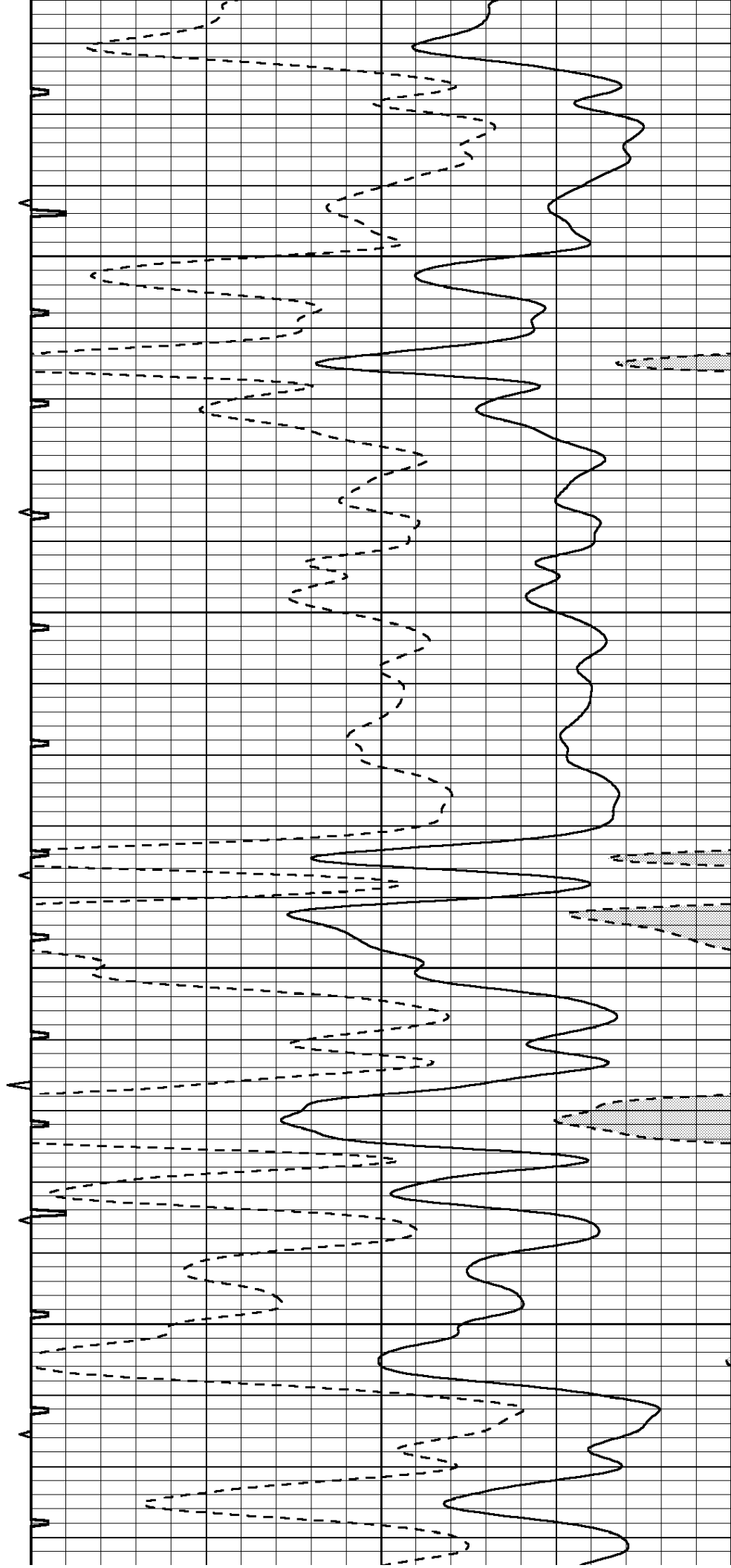


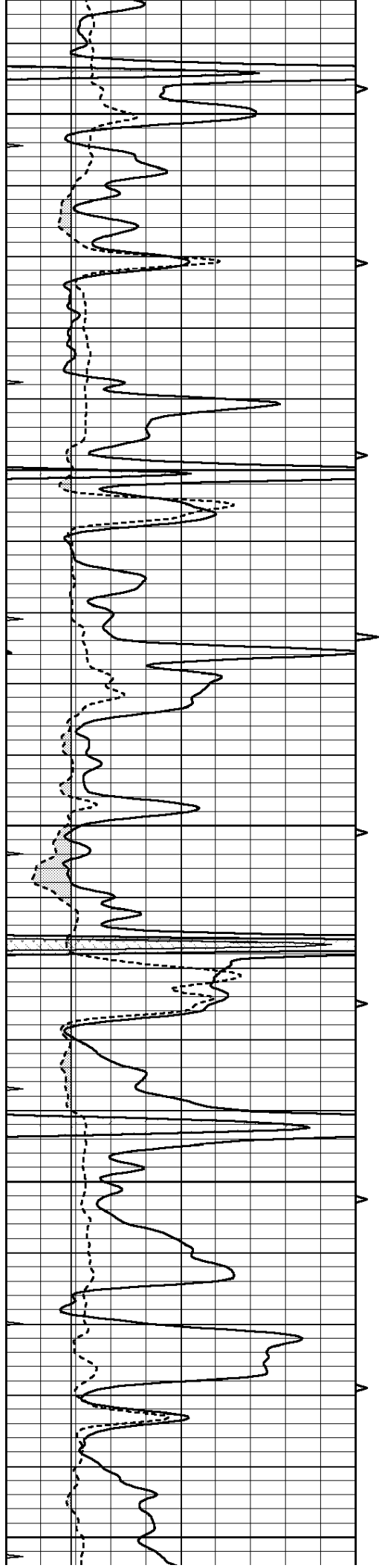
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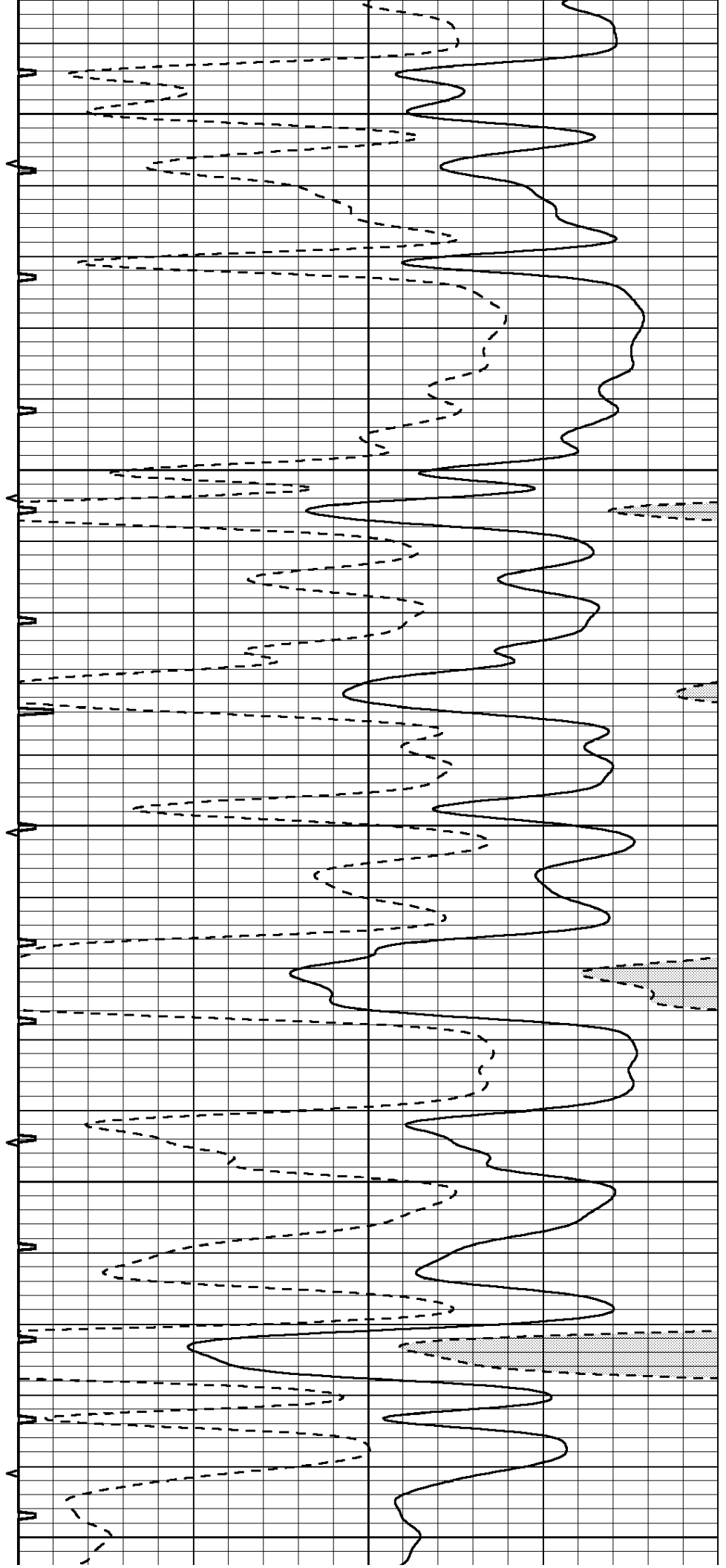
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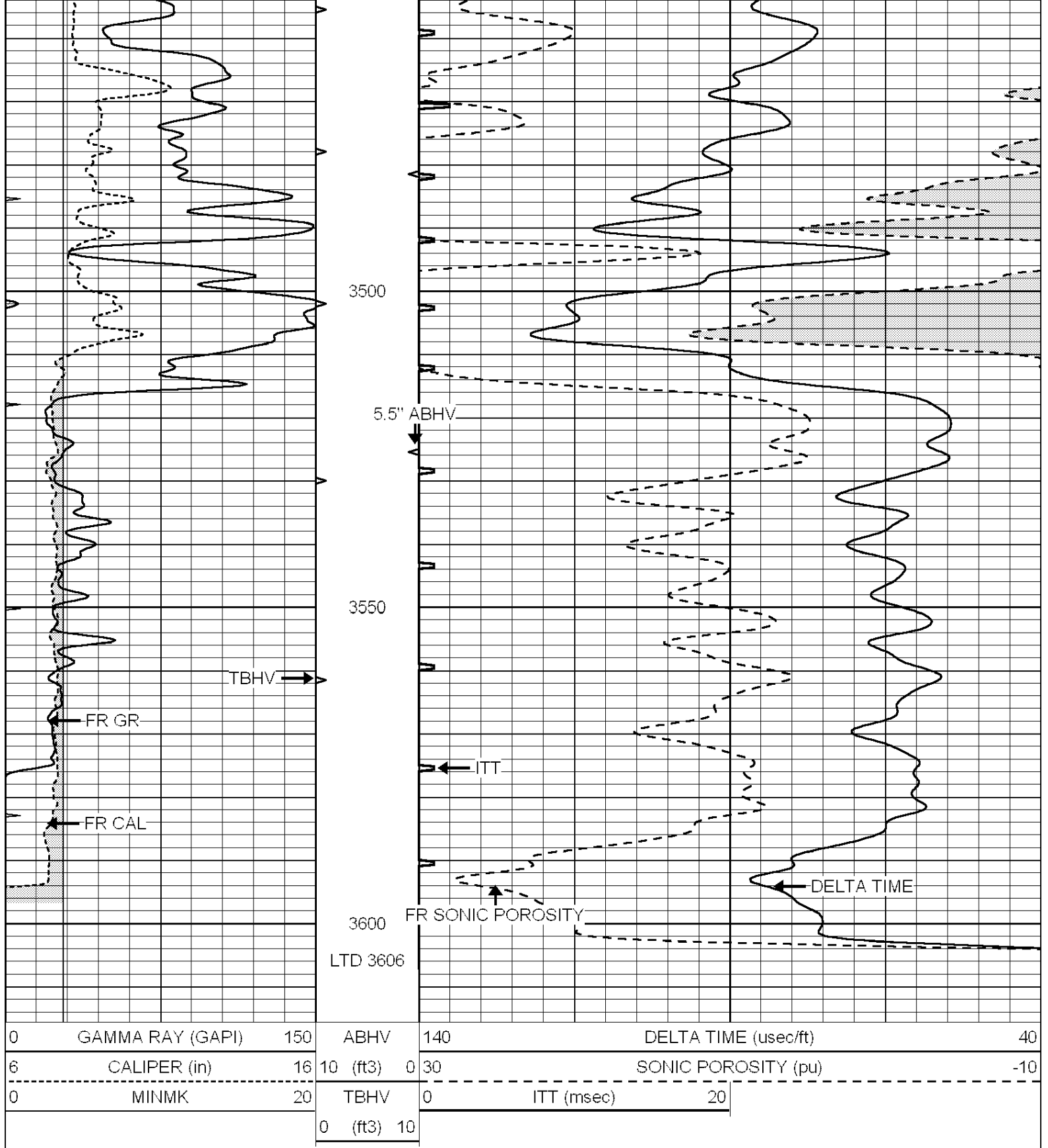
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SERVICES CO.**

REPEAT SECTION

Database File: 011681pe.db
 Dataset Pathname: pass5.5
 Presentation Format: slt
 Dataset Creation: Fri Oct 04 12:04:59 2013

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		

