

SONIC LOG

Company DOWNING - NELSON OIL COMPANY
Well HOGAN FAMILY TRUST #1-21
Field WILDCAT
County PAWNEE
State KANSAS

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Field WILDCAT
County PAWNEE State KANSAS

Location: API # : 15-145-21807-0000
564' FNL & 335' FWL
SE - NW - NW - NW
SEC 21 TWP 23S RGE 18W
Permanent Datum GROUND LEVEL Elevation 2113
Log Measured From KELLY BUSHING 8' A.G.L.
Drilling Measured From KELLY BUSHING
Other Services
CDL/CNL
DIL/MEL
Elevation
K.B. 2121
D.F. 2119
G.L. 2113

Date	9/5/15		
Run Number	TWO		
Depth Driller	4460		
Depth Logger	4456		
Bottom Logged Interval	4458		
Top Log Interval	1100		
Casing Driller	8 5/8" @ 1189'		
Casing Logger	1190		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 9,000 PPM	
Density / Viscosity	9.2/48		
pH / Fluid Loss	9.0/9.6		
Source of Sample	FLOWLINE		
Rin @ Meas. Temp	.400 @ 82F		
Rinf @ Meas. Temp	.300 @ 82F		
Rinc @ Meas. Temp	.480 @ 82F		
Source of Rinf / Rinc	MEASUREMENT		
Rin @ BHT	.273 @ 120F		
Time Circulation Stopped	4.5 HOURS		
Time Logger on Bottom	8:00 A.M.		
Maximum Recorded Temperature	120F		
Equipment Number	4854		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	MARC DOWNING		

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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 C & J ENERGY (CASED HOLE SOLUTIONS) HAYS, KANSAS (785) 628-6395
DIRECTIONS
(HWY 183 & 156 JUNCTION), 10S. ON HWY 183, 1/4E., S. INTO @MAILBOX

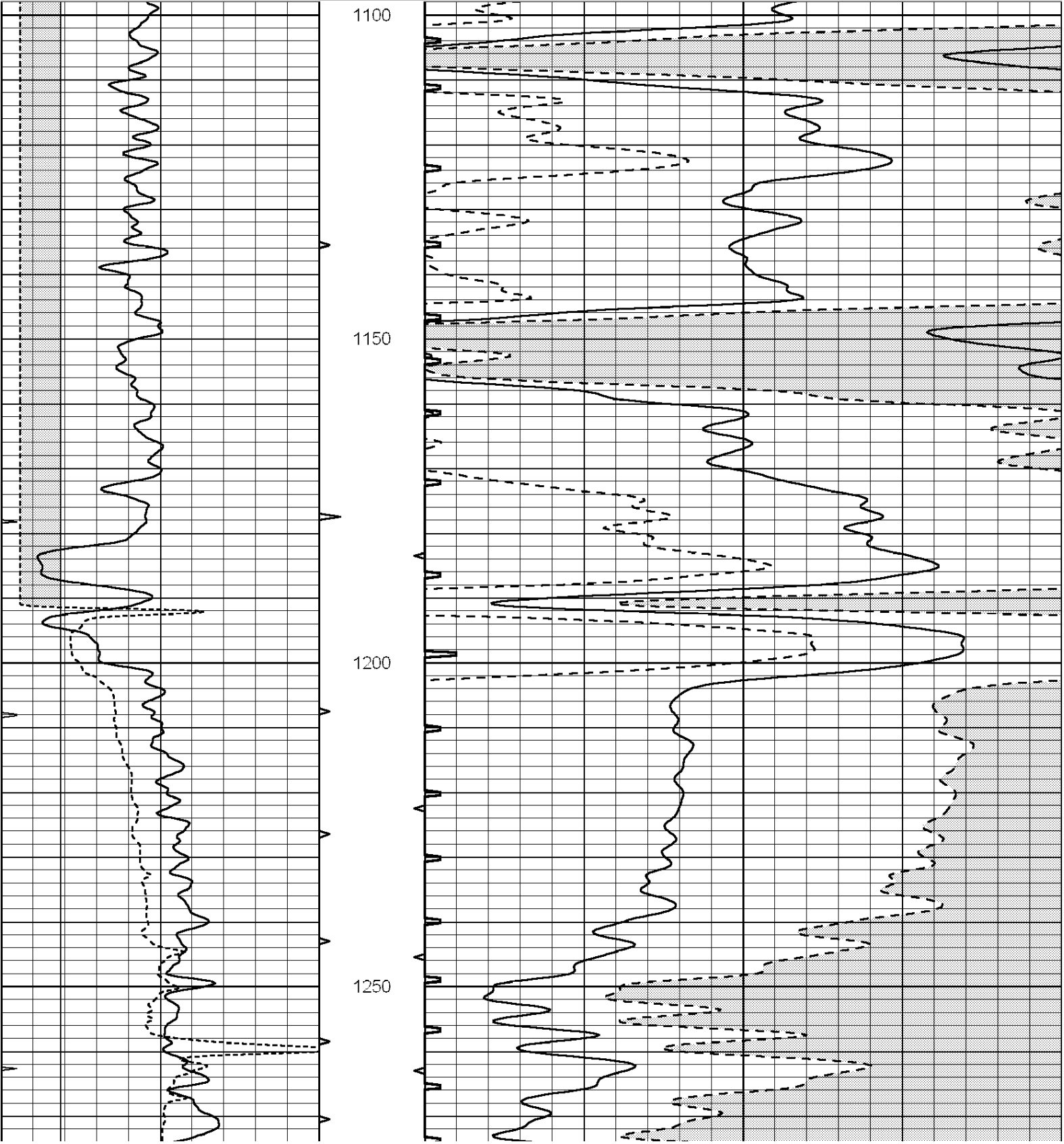


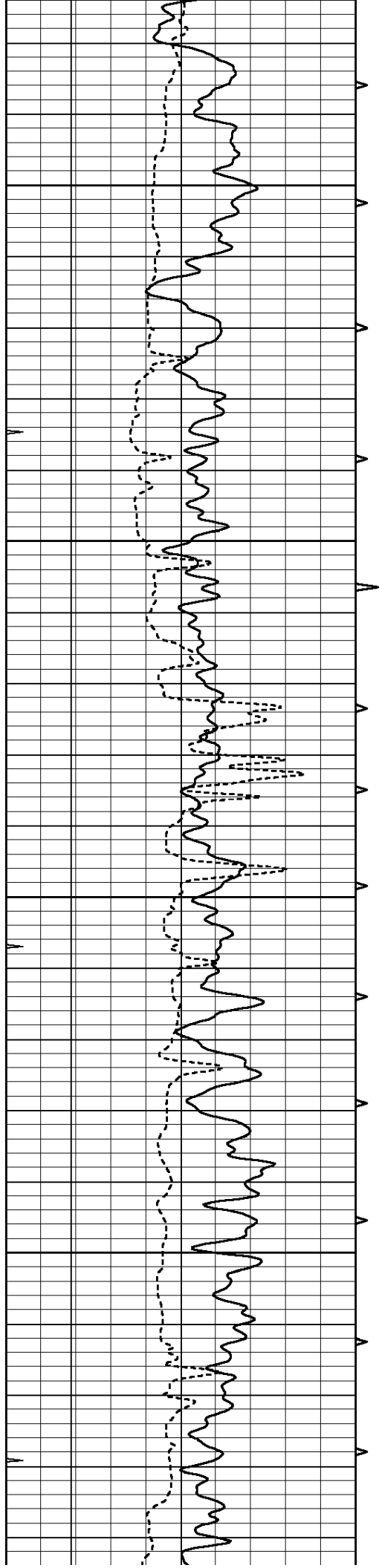
MAIN SECTION

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Dataset Pathname: pass6.3
Presentation Format: slt
Dataset Creation: Sat Sep 05 11:31:56 2015 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				



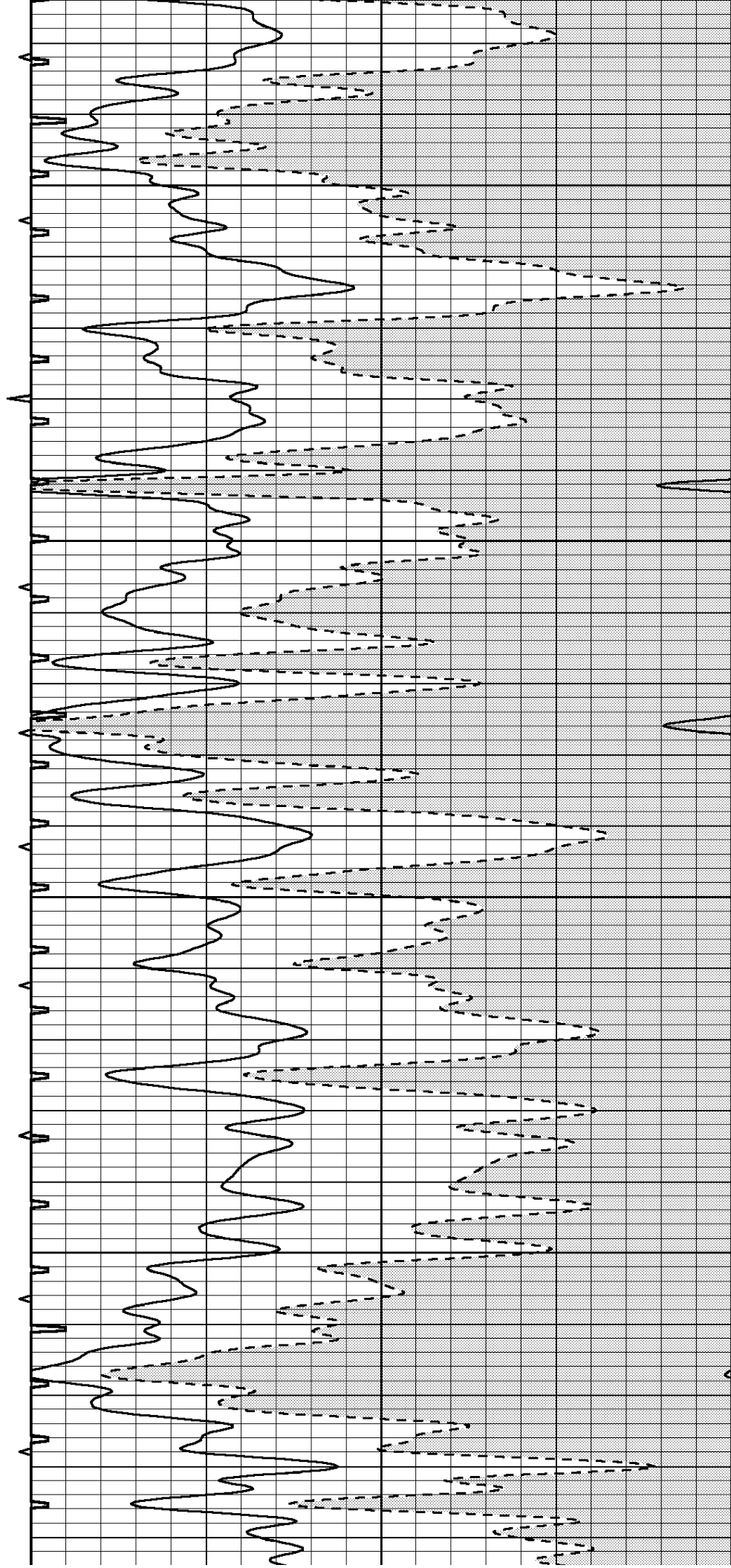


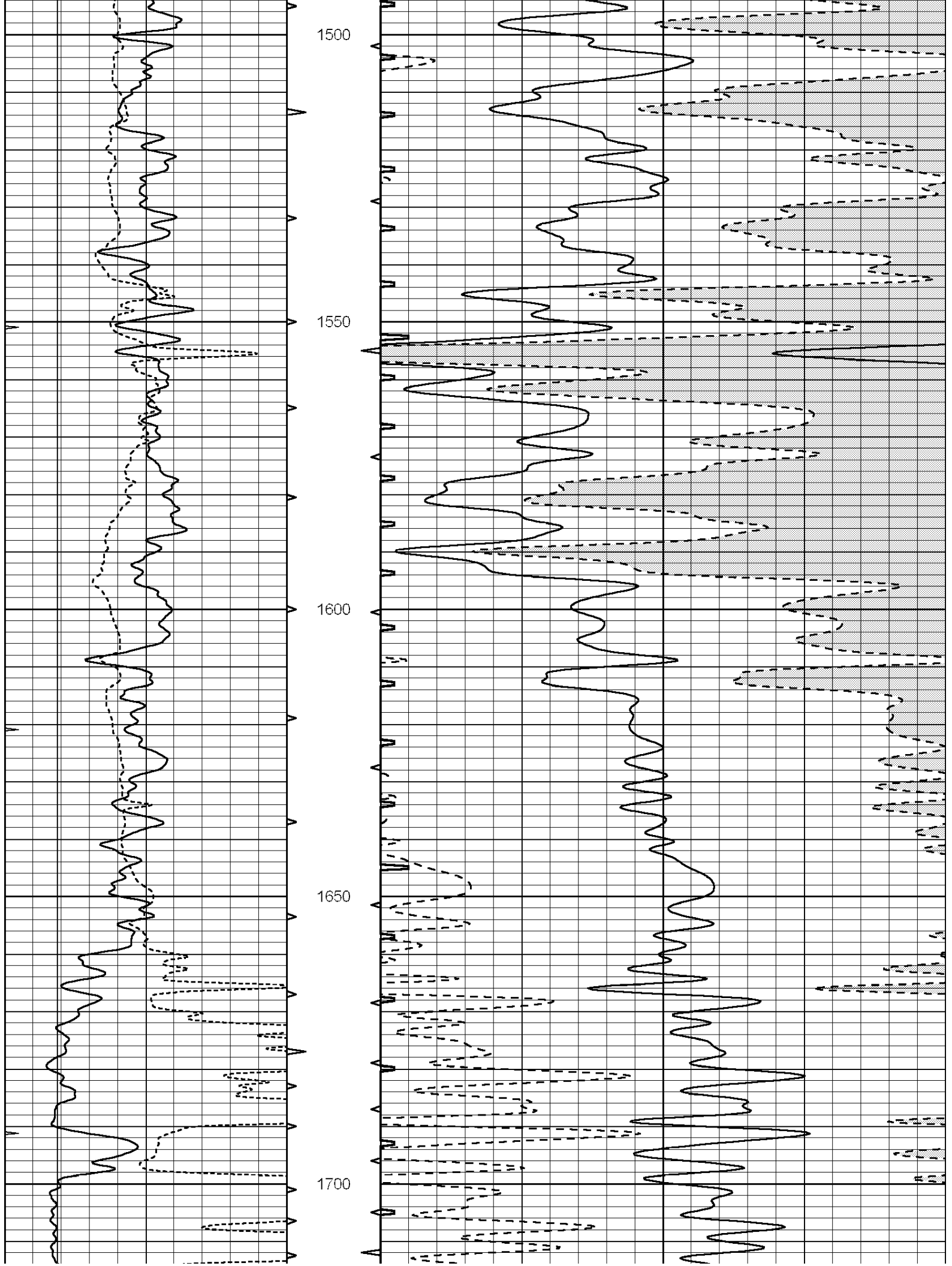
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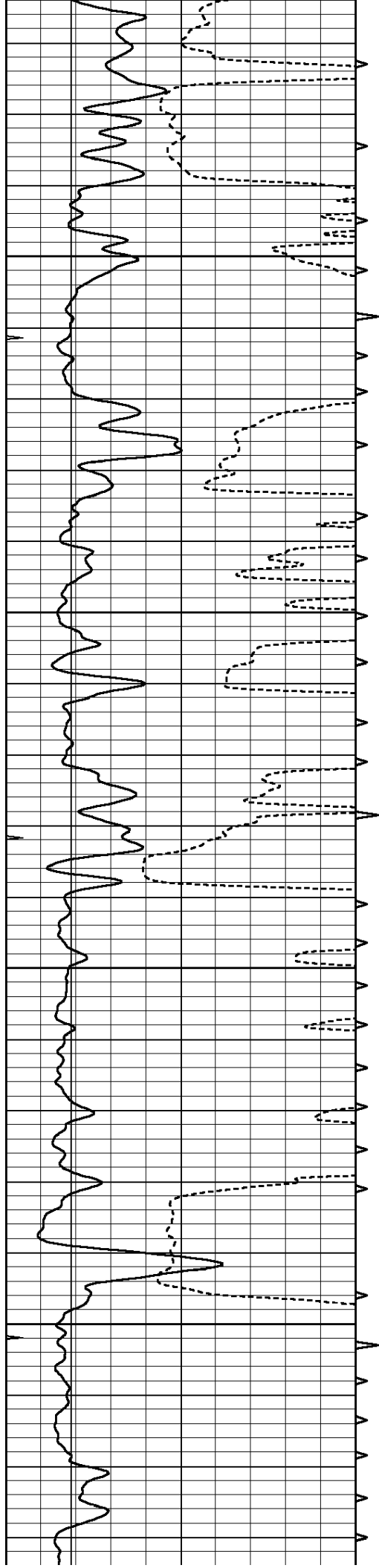
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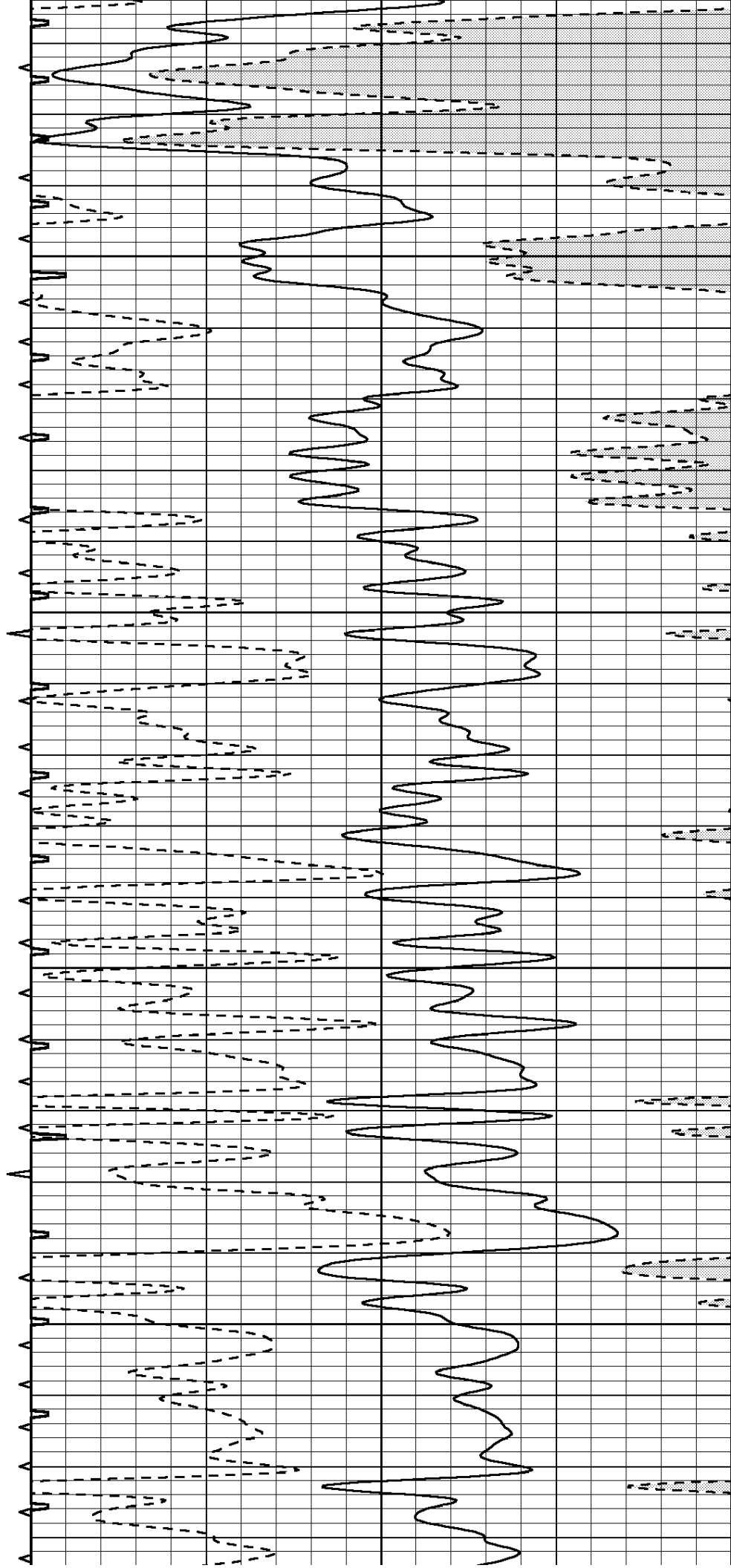


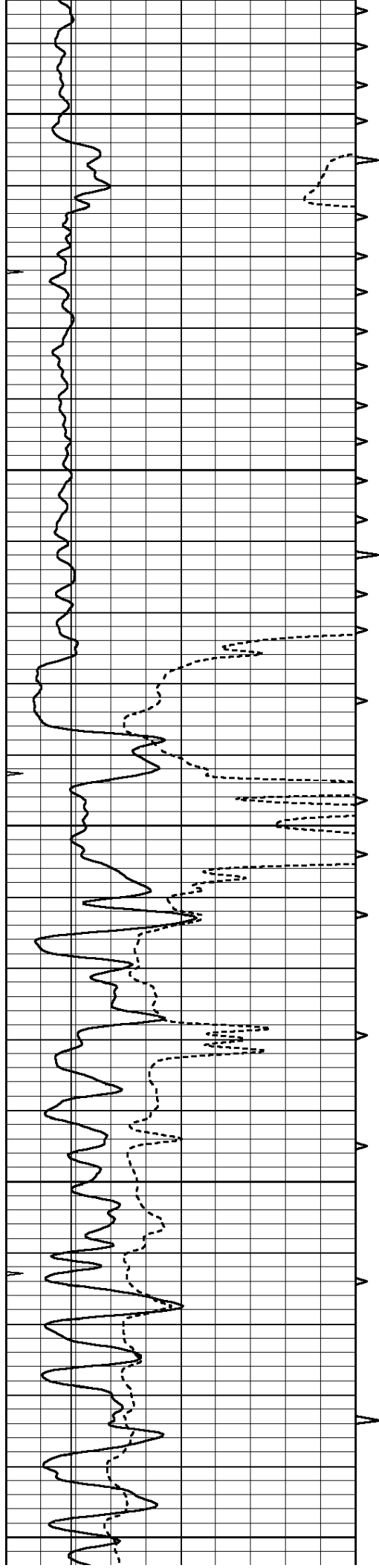
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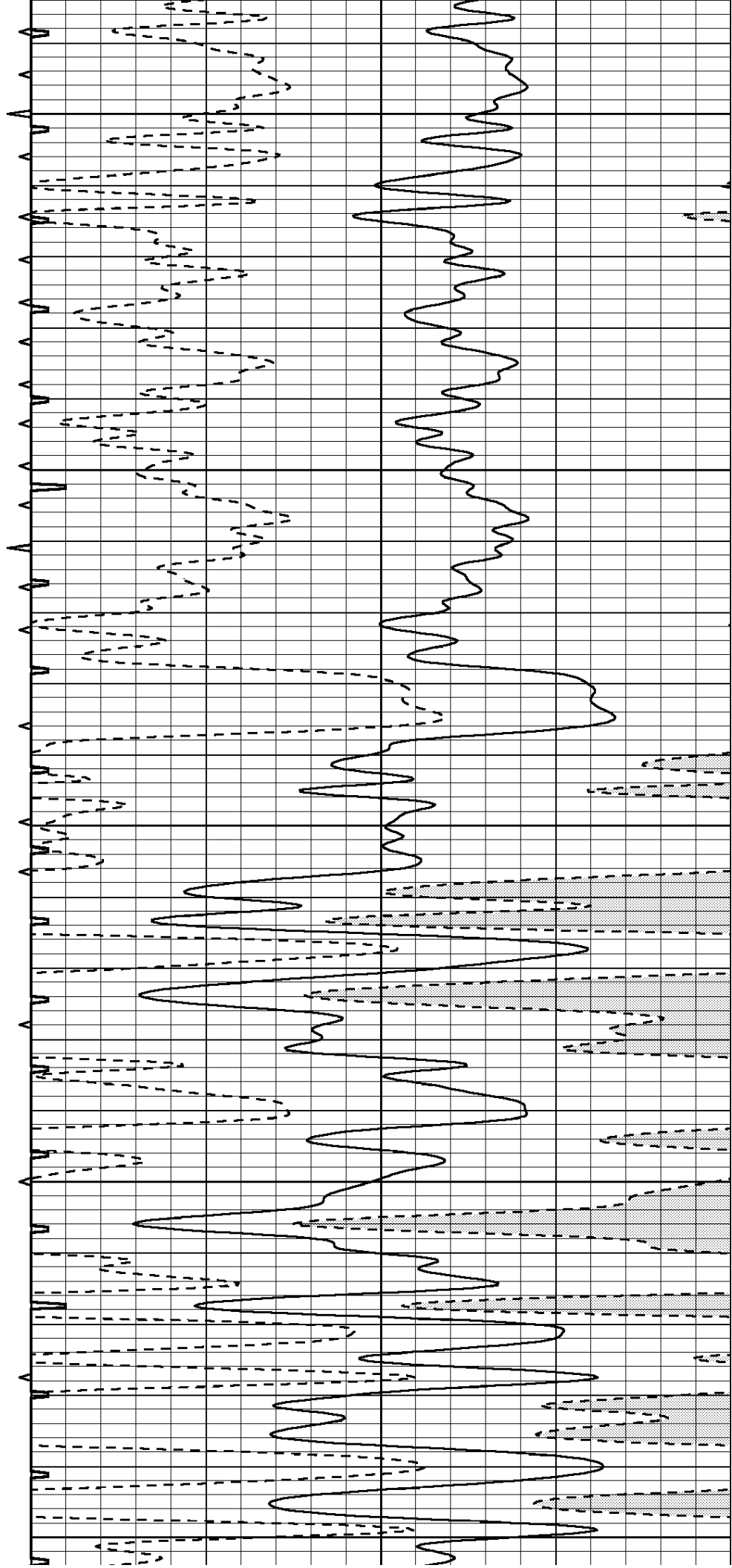
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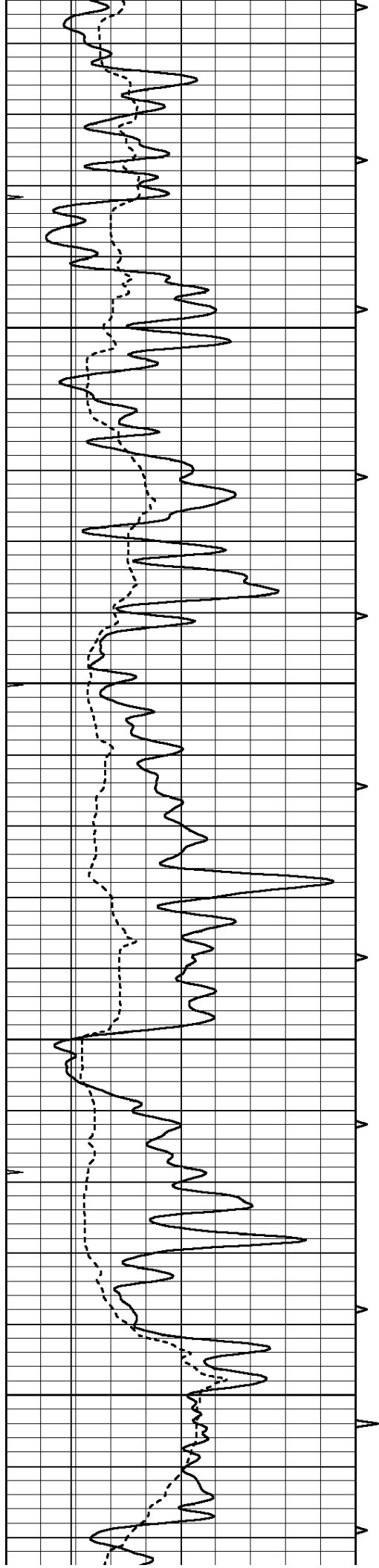
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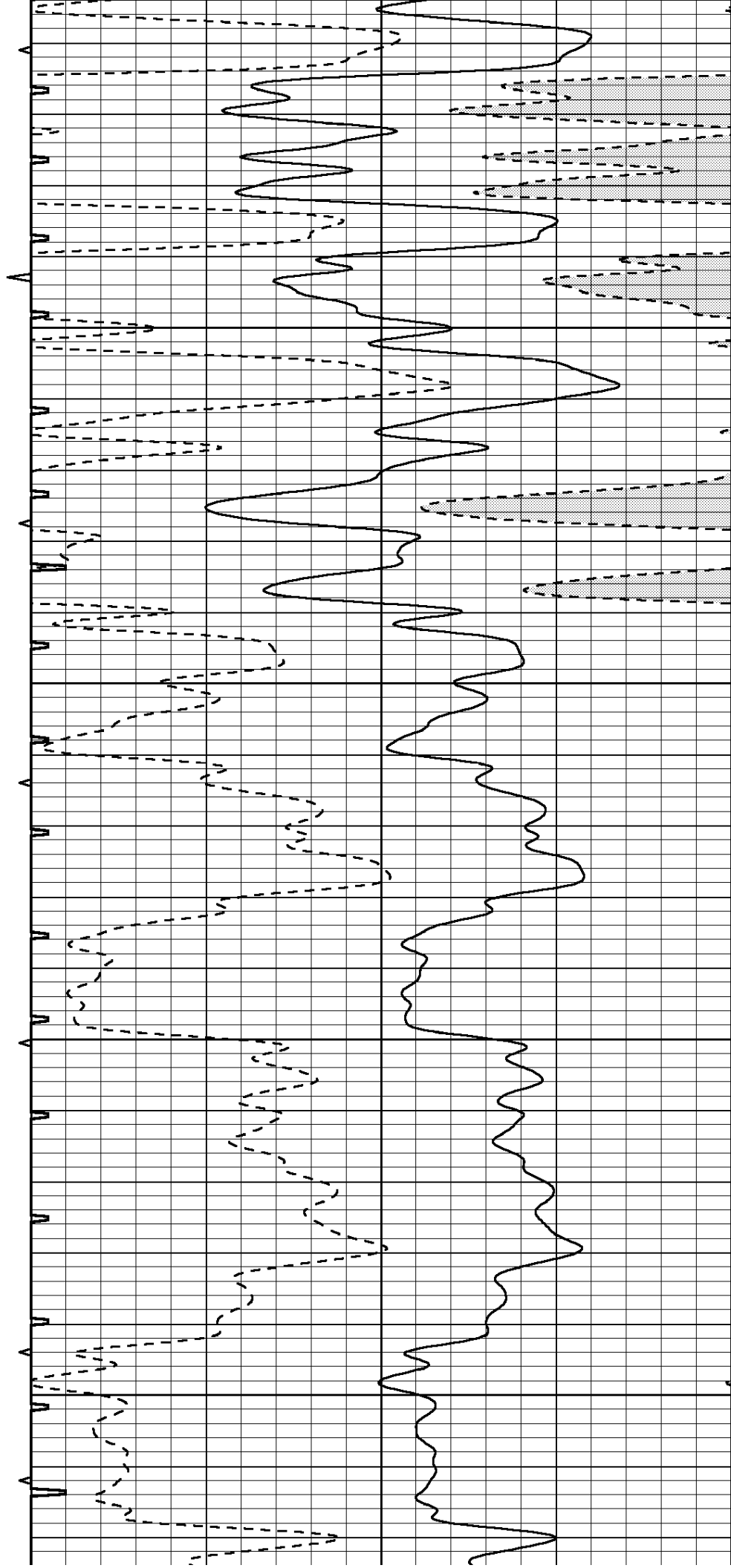


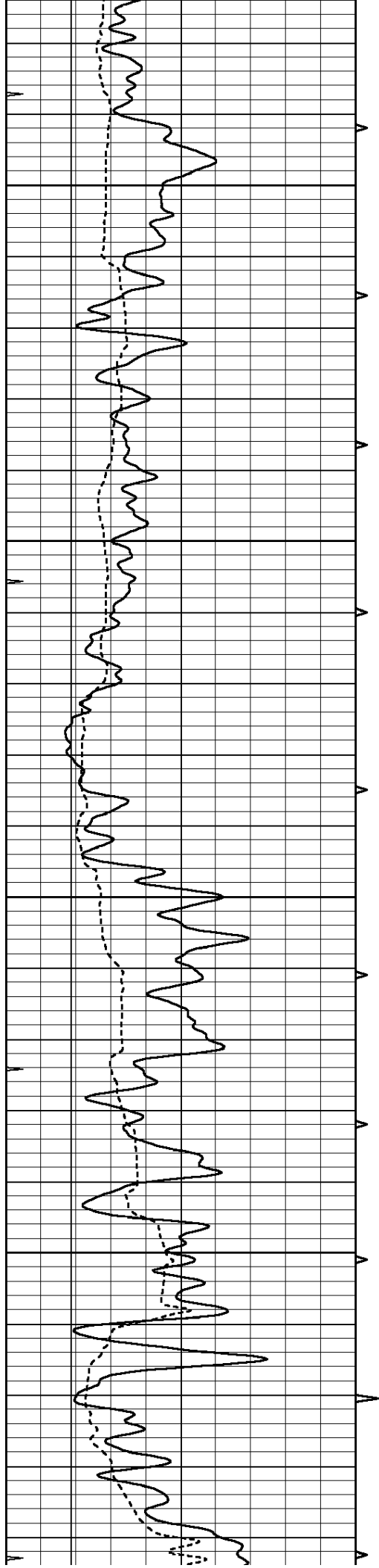
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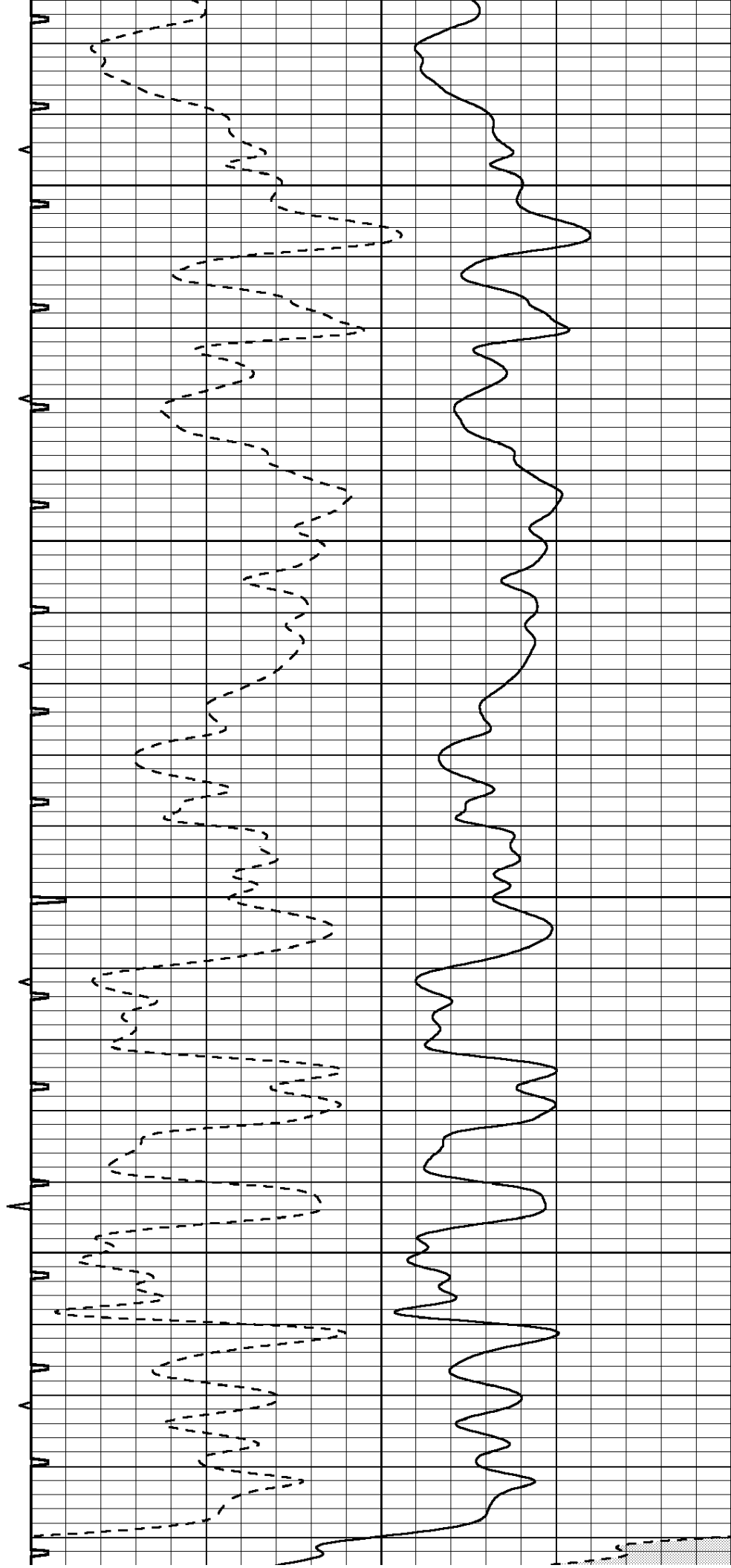


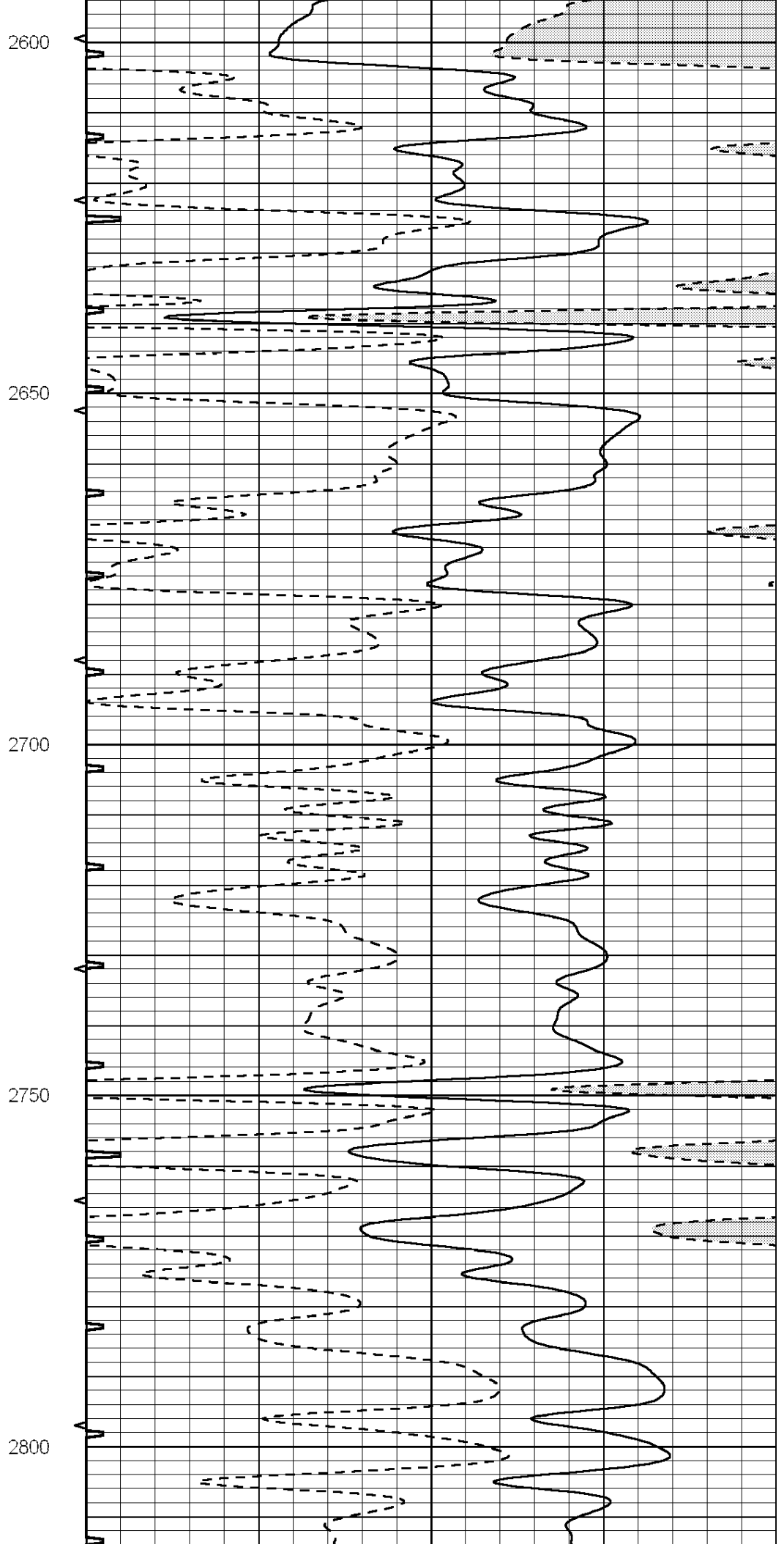
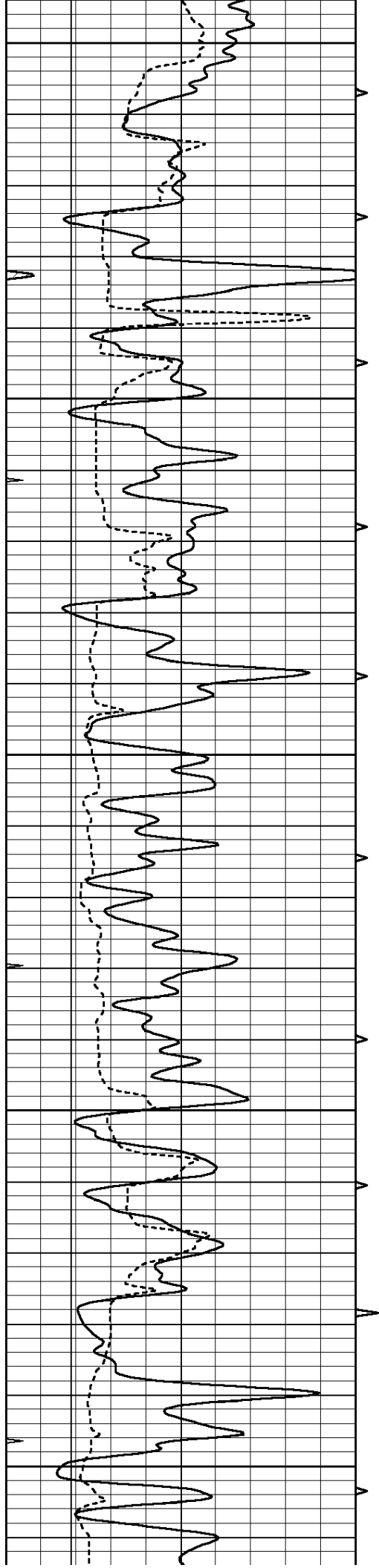
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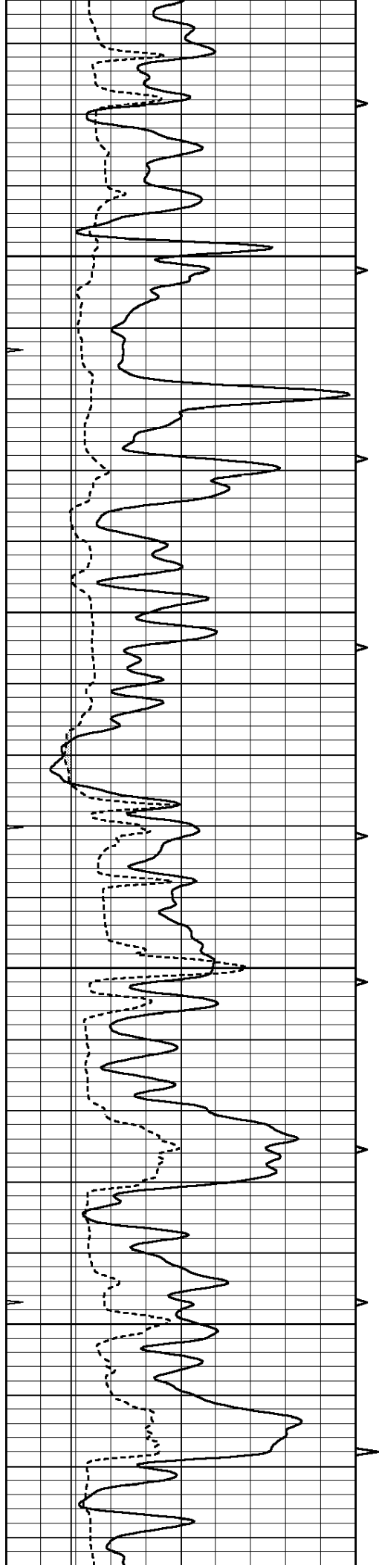
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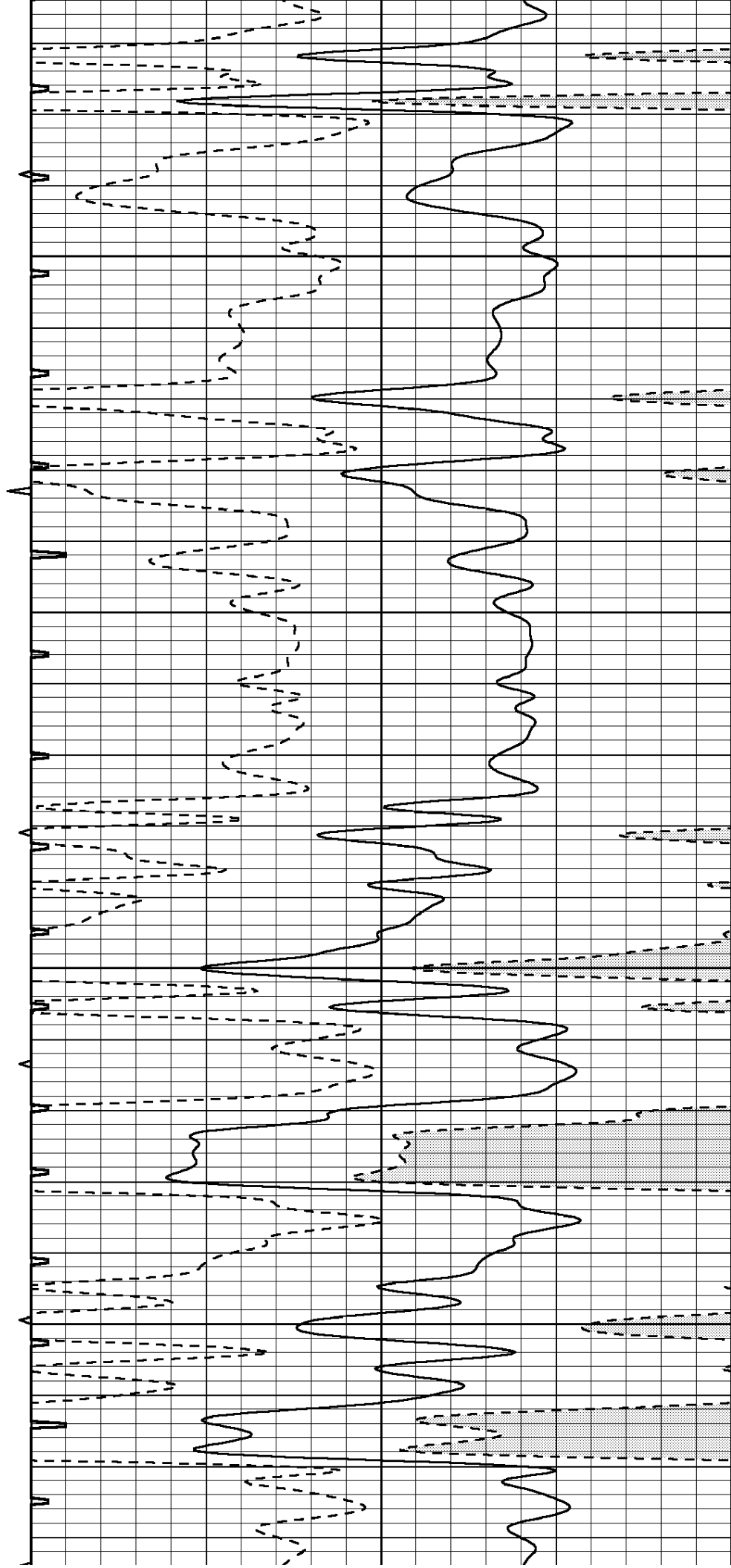


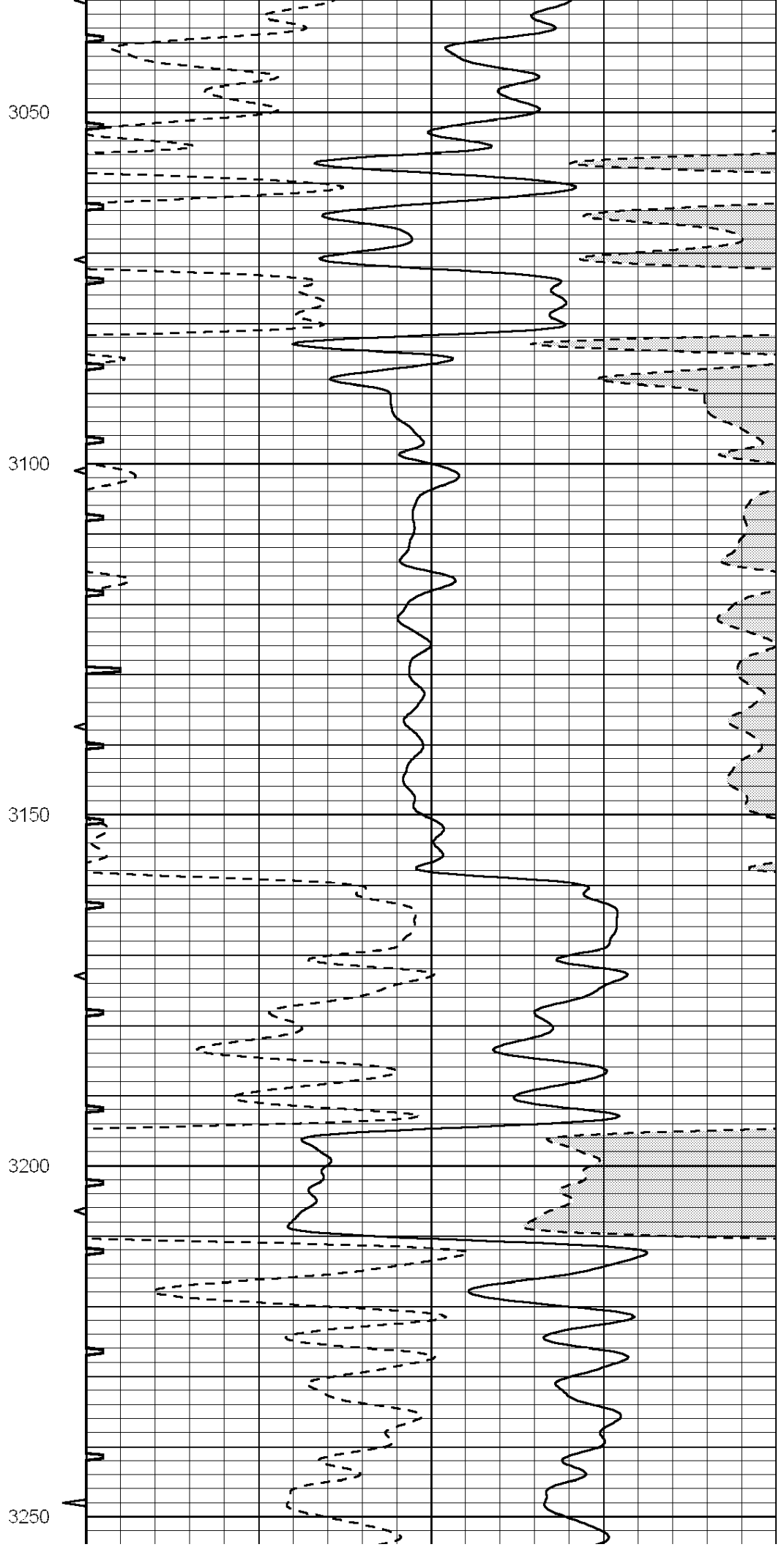
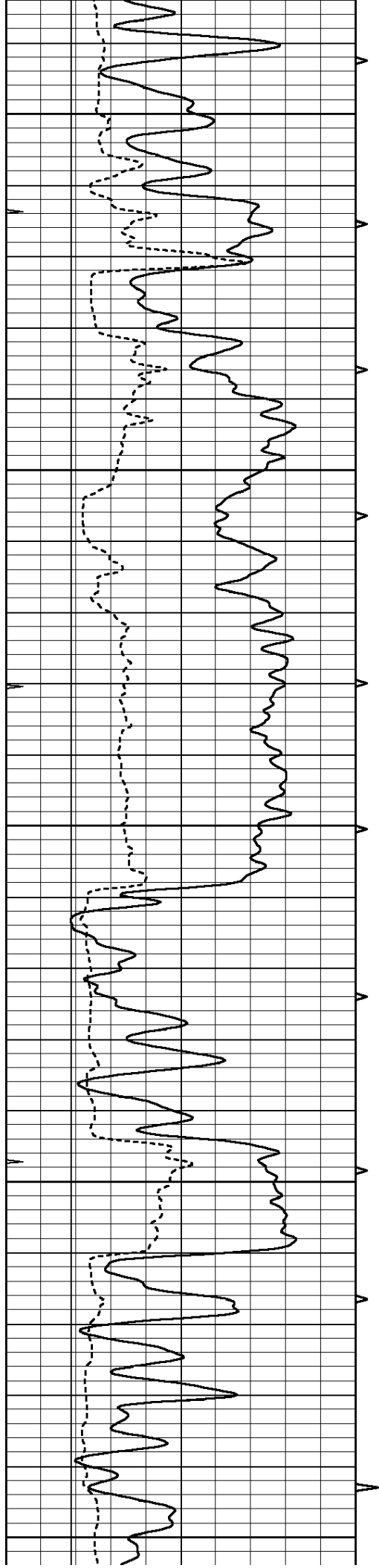
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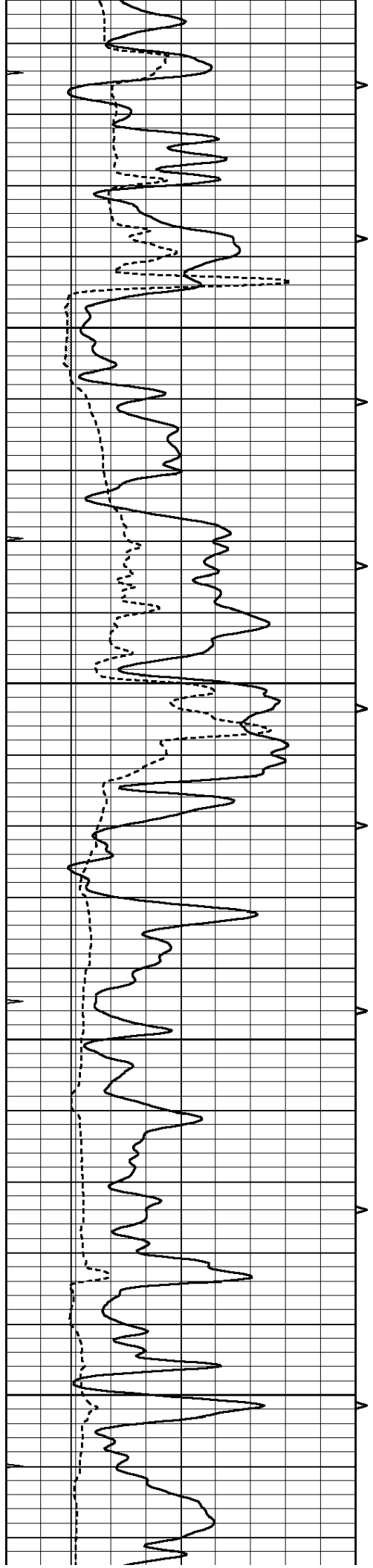
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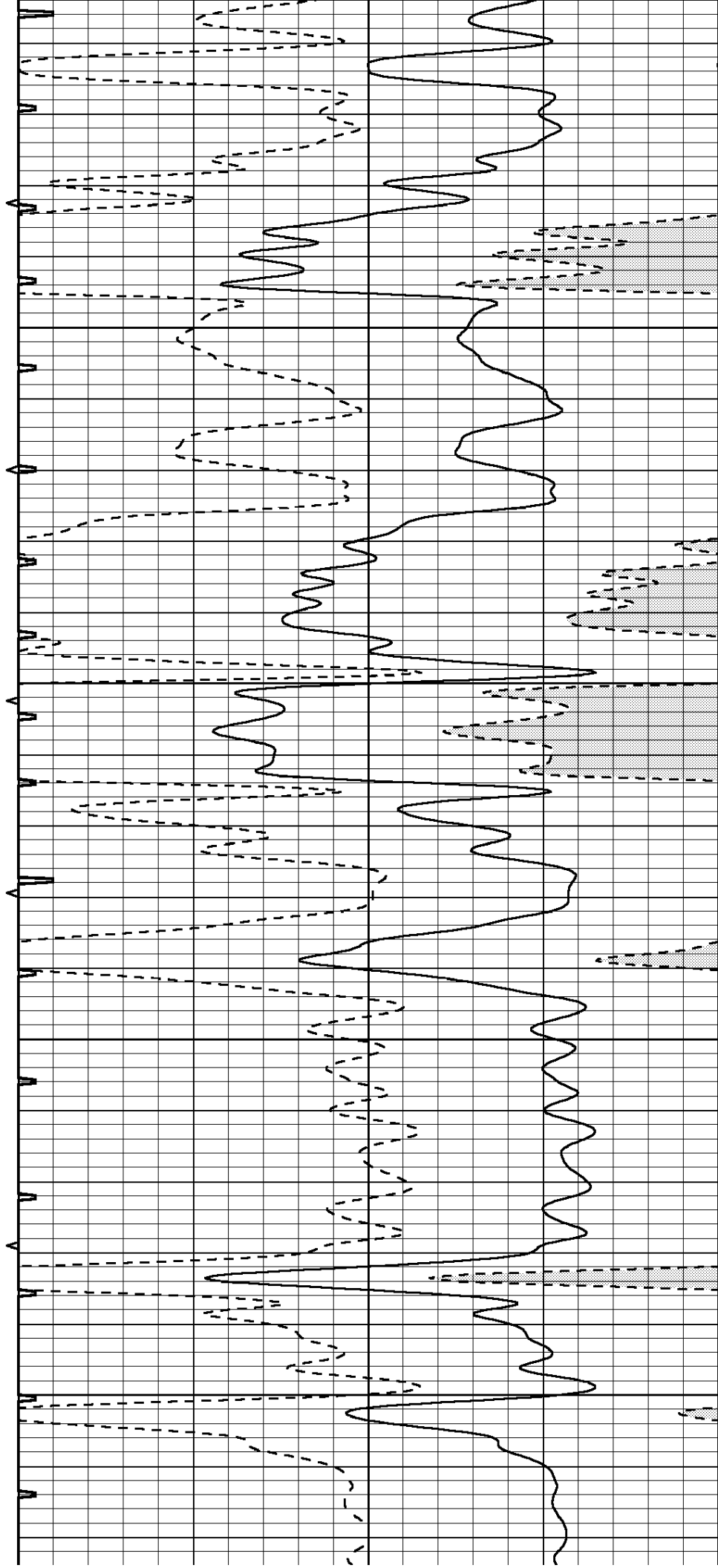


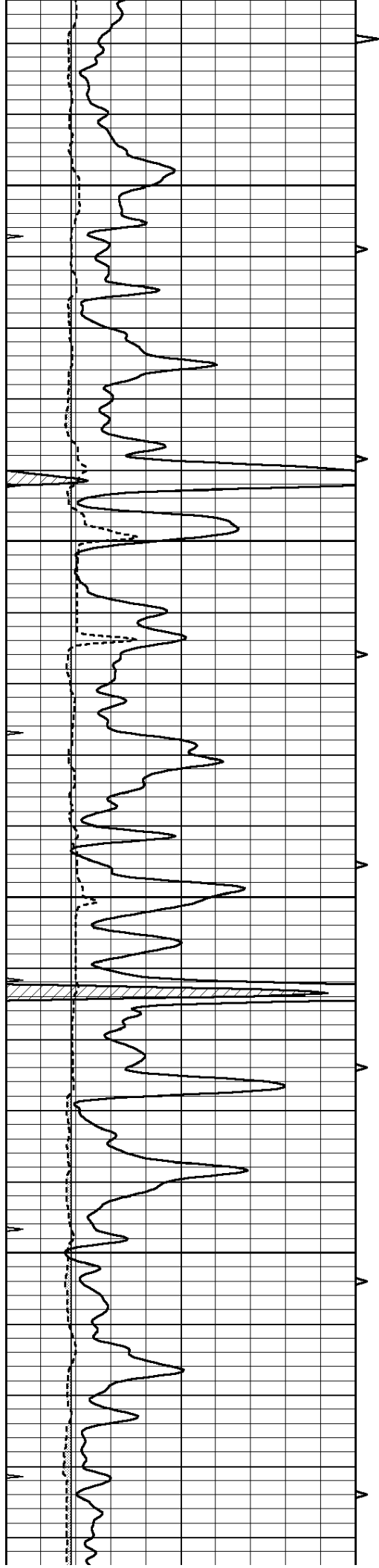
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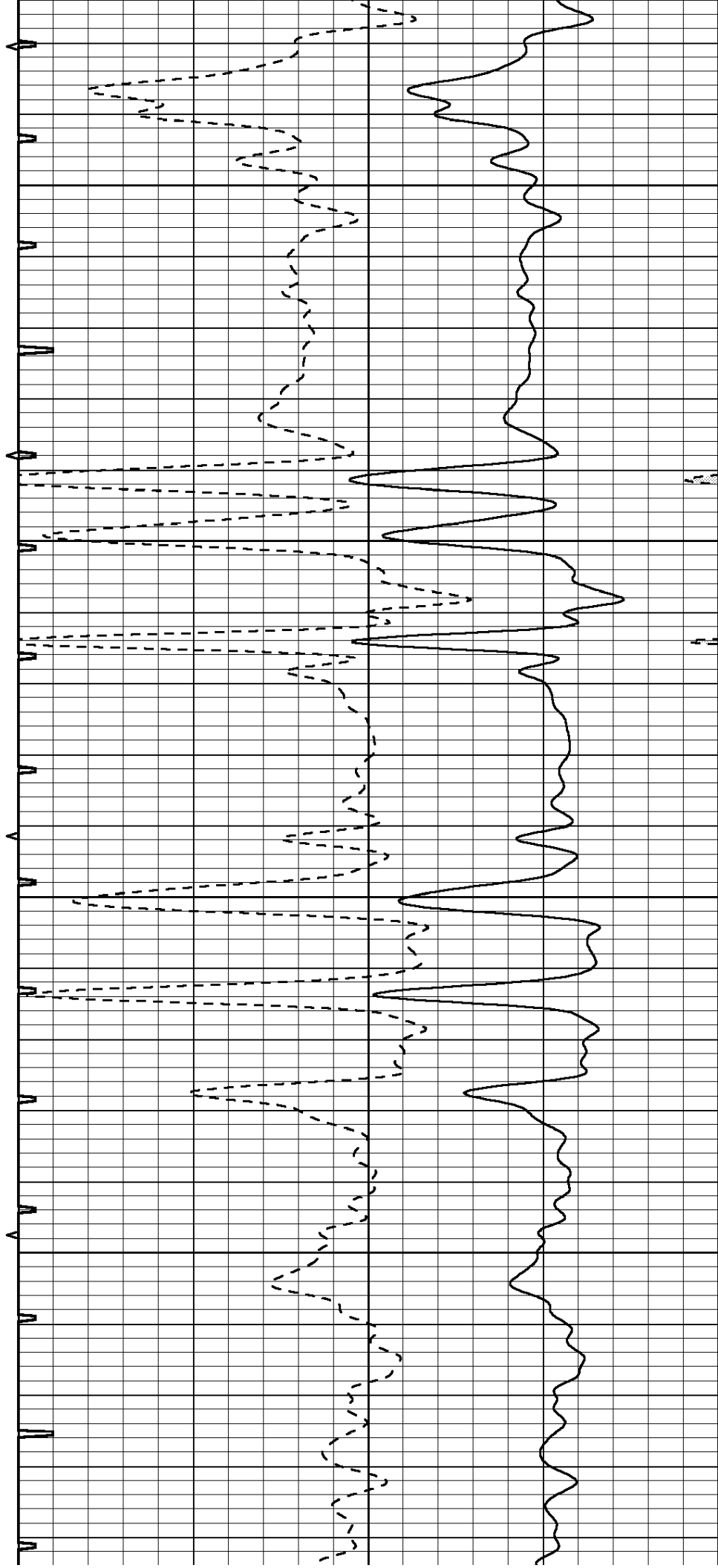


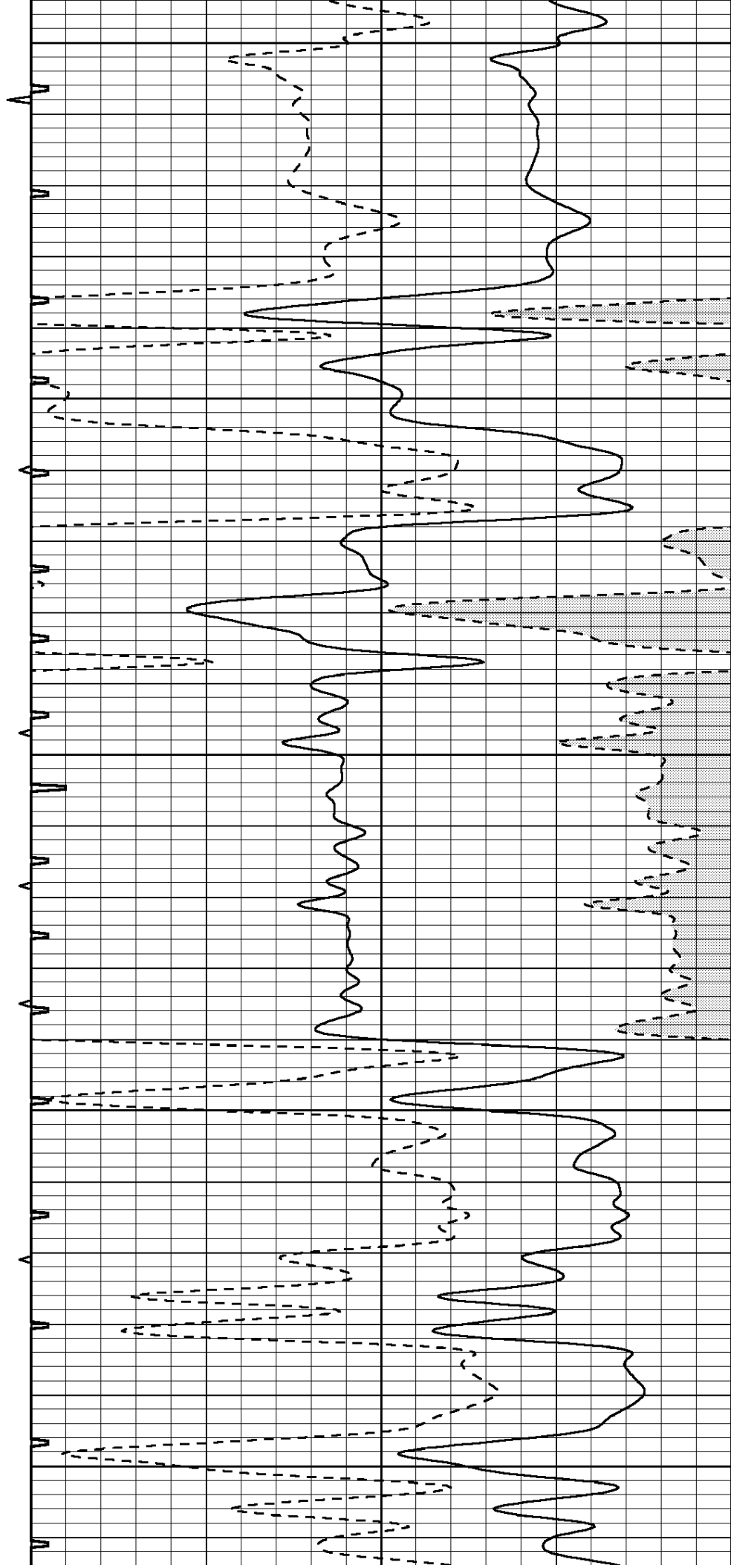
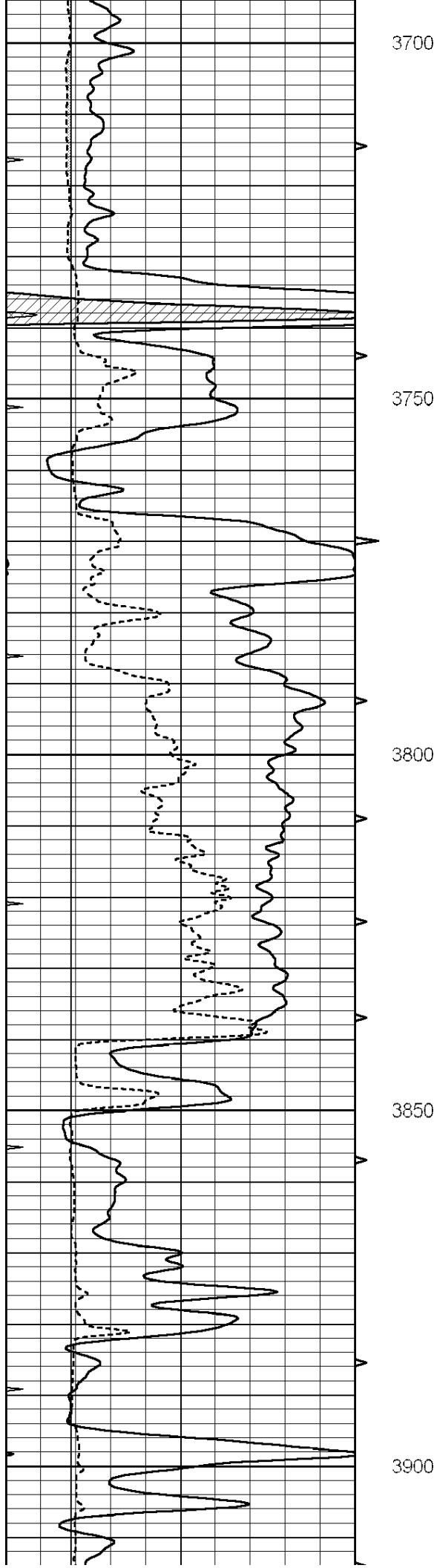
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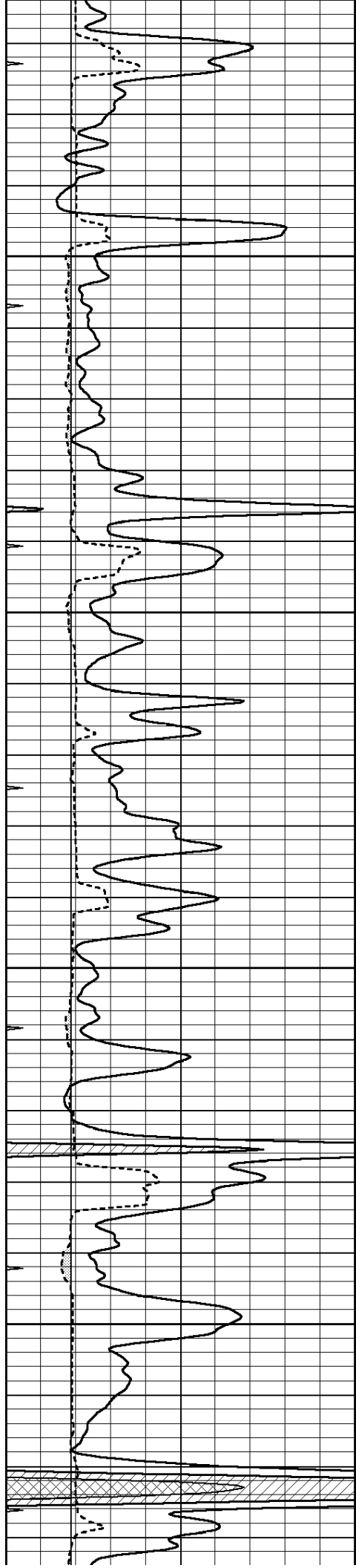
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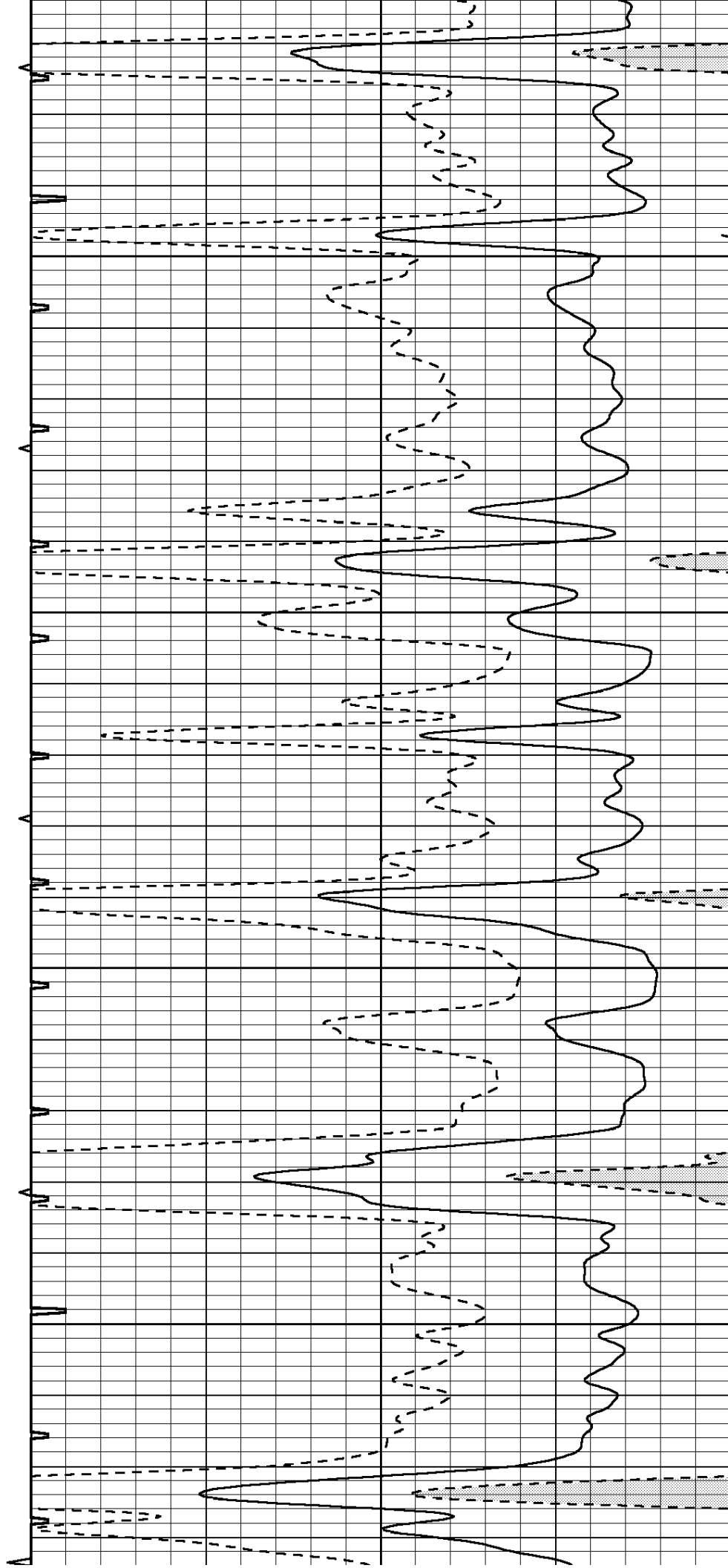


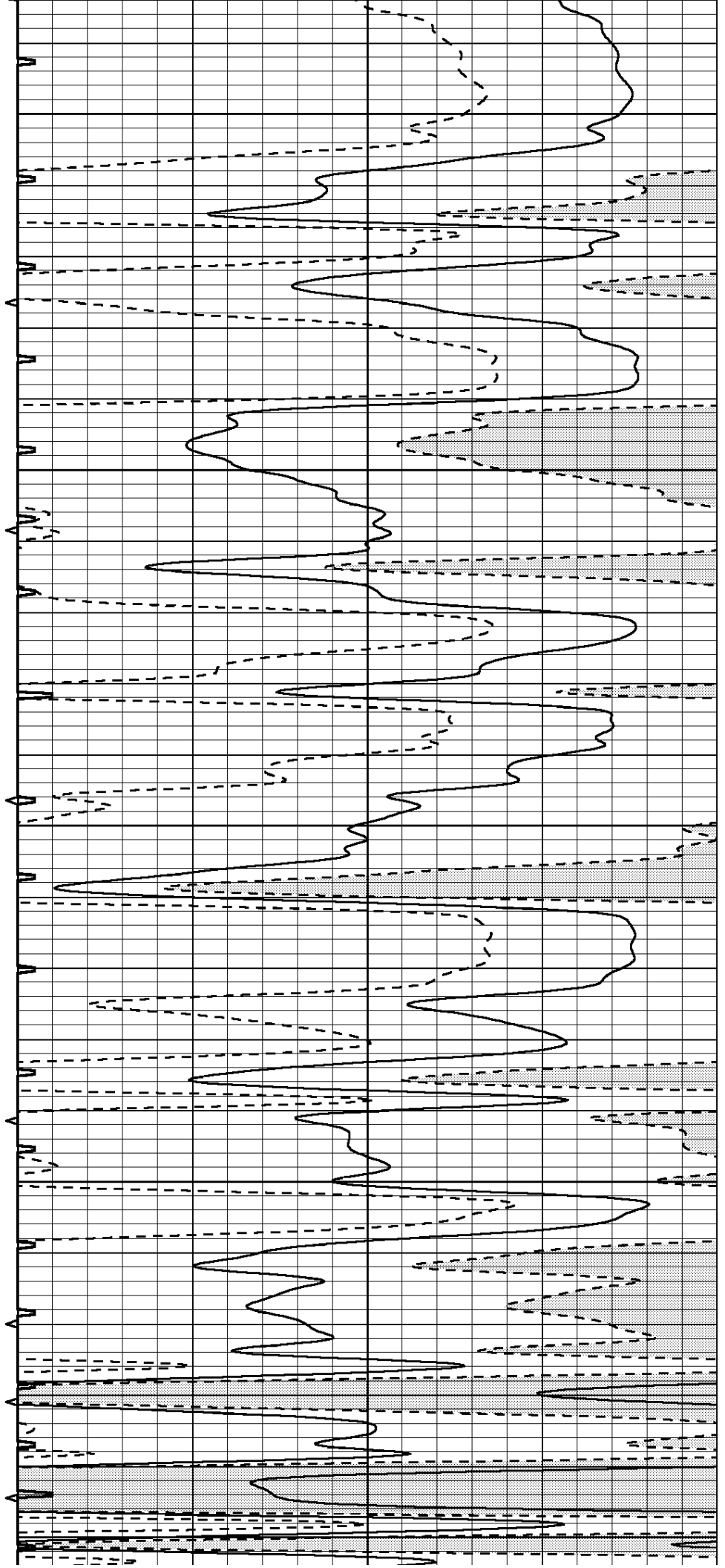
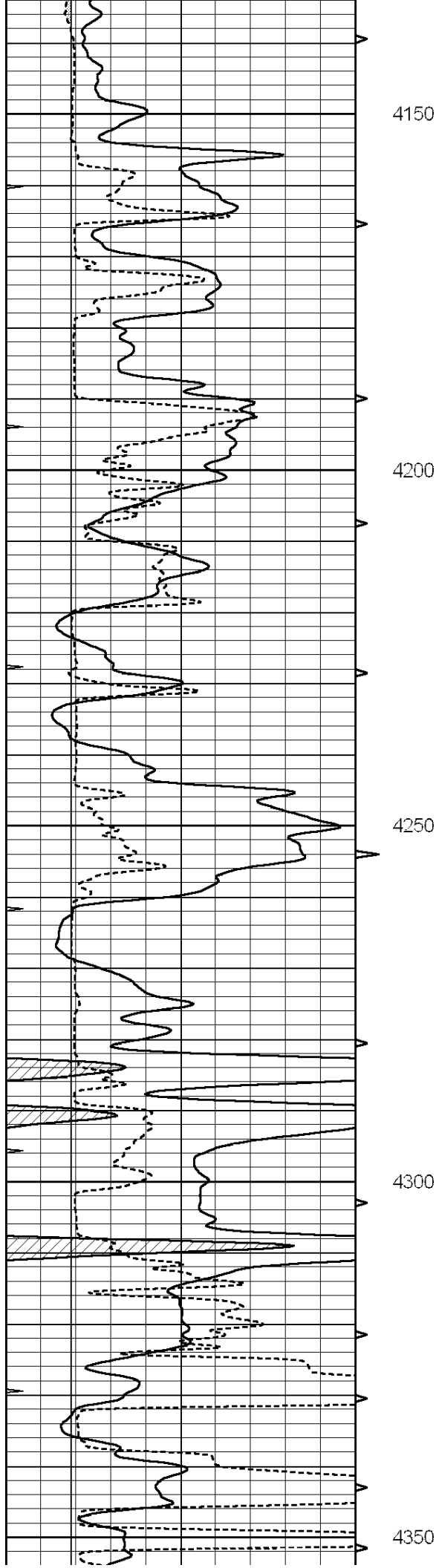
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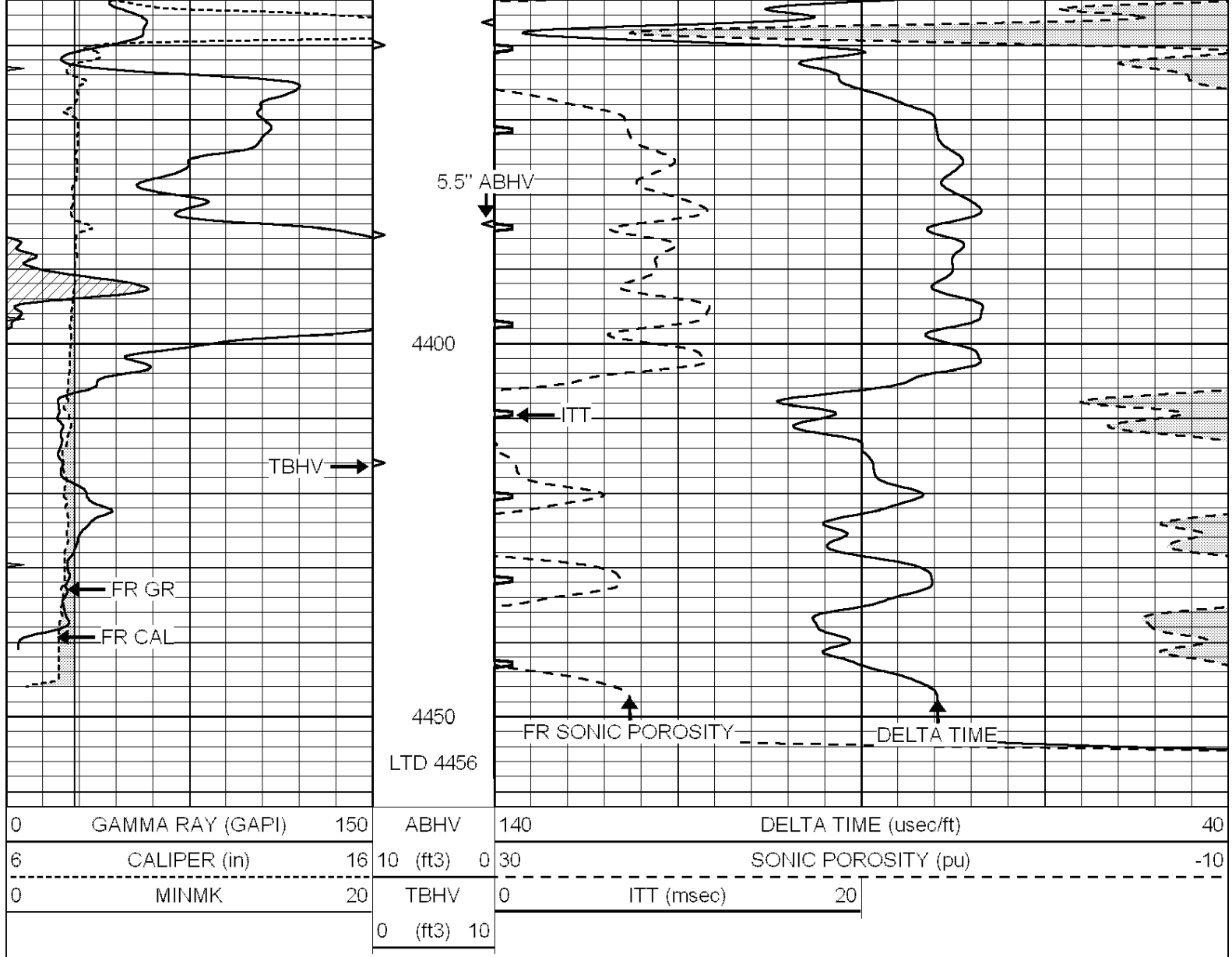
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**Casedhole
Solutions**

REPEAT SECTION

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 Charted by: Depth in Feet scaled 1:240

