



**COMPLETION
& PRODUCTION
SERVICES CO.**

**SONIC
LOG**

Company SHELBY RESOURCES LLC.
Well ARKANSAS RIVER UNIT #1-3
Field
County PAWNEE
State KANSAS

Company SHELBY RESOURCES LLC.
Well ARKANSAS RIVER UNIT #1-3
Field
County PAWNEE State KANSAS

Location: API # : 15-145-21792-0000
2206' FNL & 1382' FEL
SEC 3 TWP 22S RGE 16W
Permanent Datum GROUND LEVEL Elevation 1986
Log Measured From KELLY BUSHING 13' A.G.L.
Drilling Measured From KELLY BUSHING
Other Services
CDL/CNL
DIL/MEL
Elevation
K.B. 1999
D.F. 1997
G.L. 1986

Date	12/14/14		
Run Number	TWO		
Depth Driller	4100		
Depth Logger	4101		
Bottom Logged Interval	4085		
Top Log Interval	00		
Casing Driller	8 5/8" @ 1039		
Casing Logger	1038		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 5200 PPM	
Density / Viscosity	9.2/52		
pH / Fluid Loss	11.0/7.2		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.80 @ 60F		
Rmt @ Meas. Temp	.60 @ 60F		
Rmc @ Meas. Temp	.96 @ 60F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.43 @ 117F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	117F		
Equipment Number	4010		
Location	HAYS, KANSAS		
Recorded By	JASON CAPPELLUCCI		
Witnessed By	JEREMY SCHWARTZ		

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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

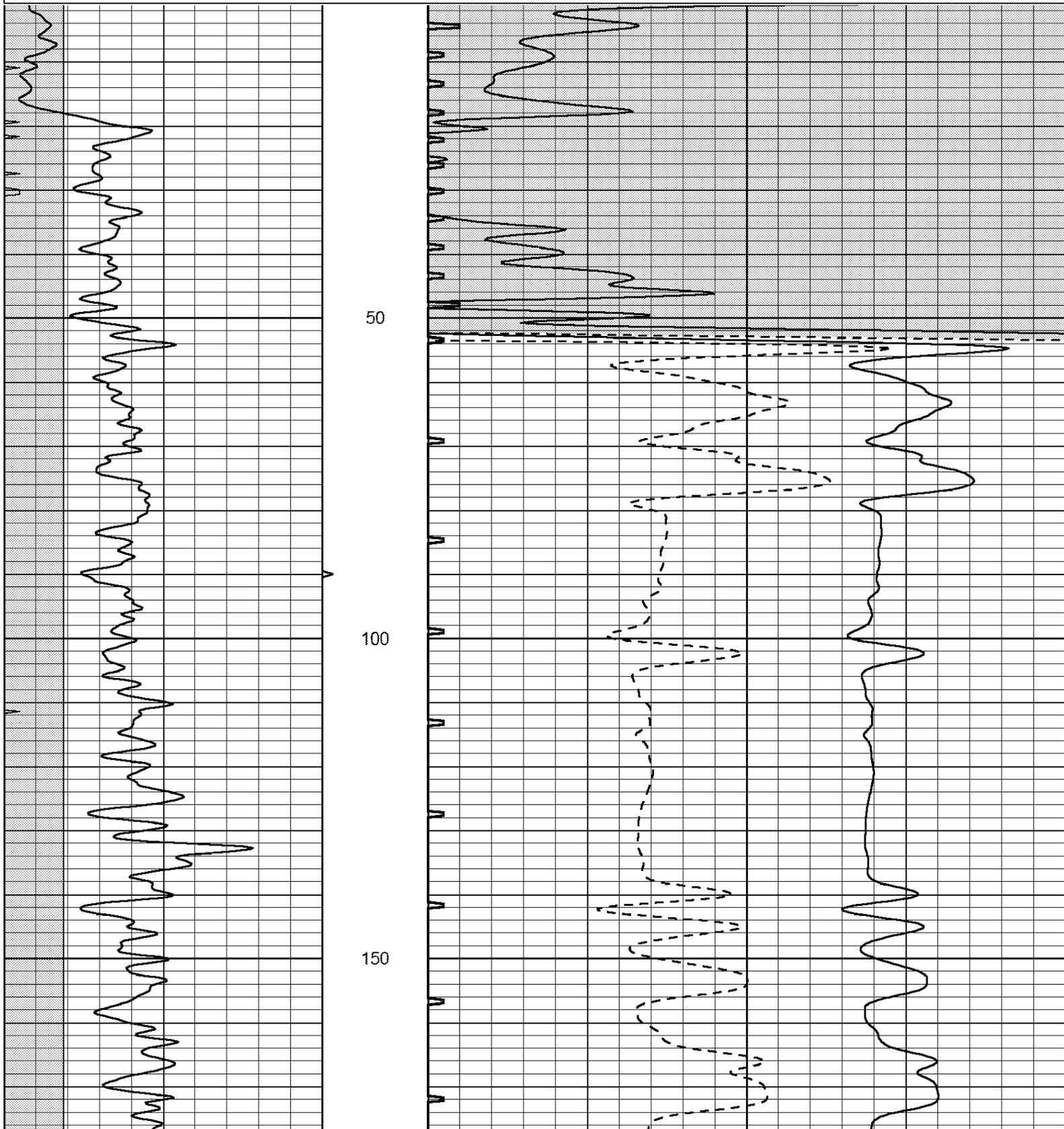
THANK YOU FOR USING NABORS, HAYS, KS. (785) 628-6395
DIRECTIONS:
LARNED, KS. - SOUTH TO HWY 19 - 2 EAST - 1 NORTH - WEST INTO

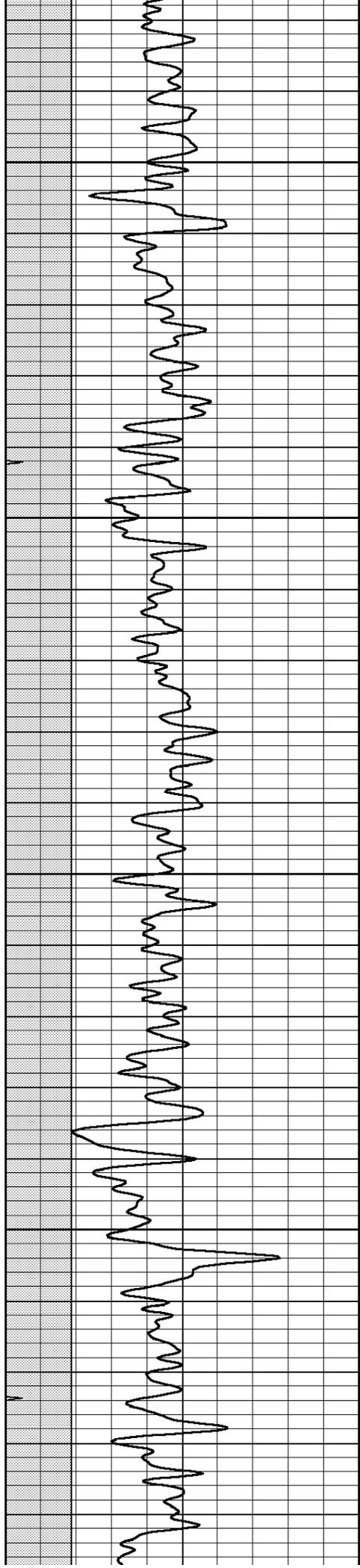


MAIN SECTION

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 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			



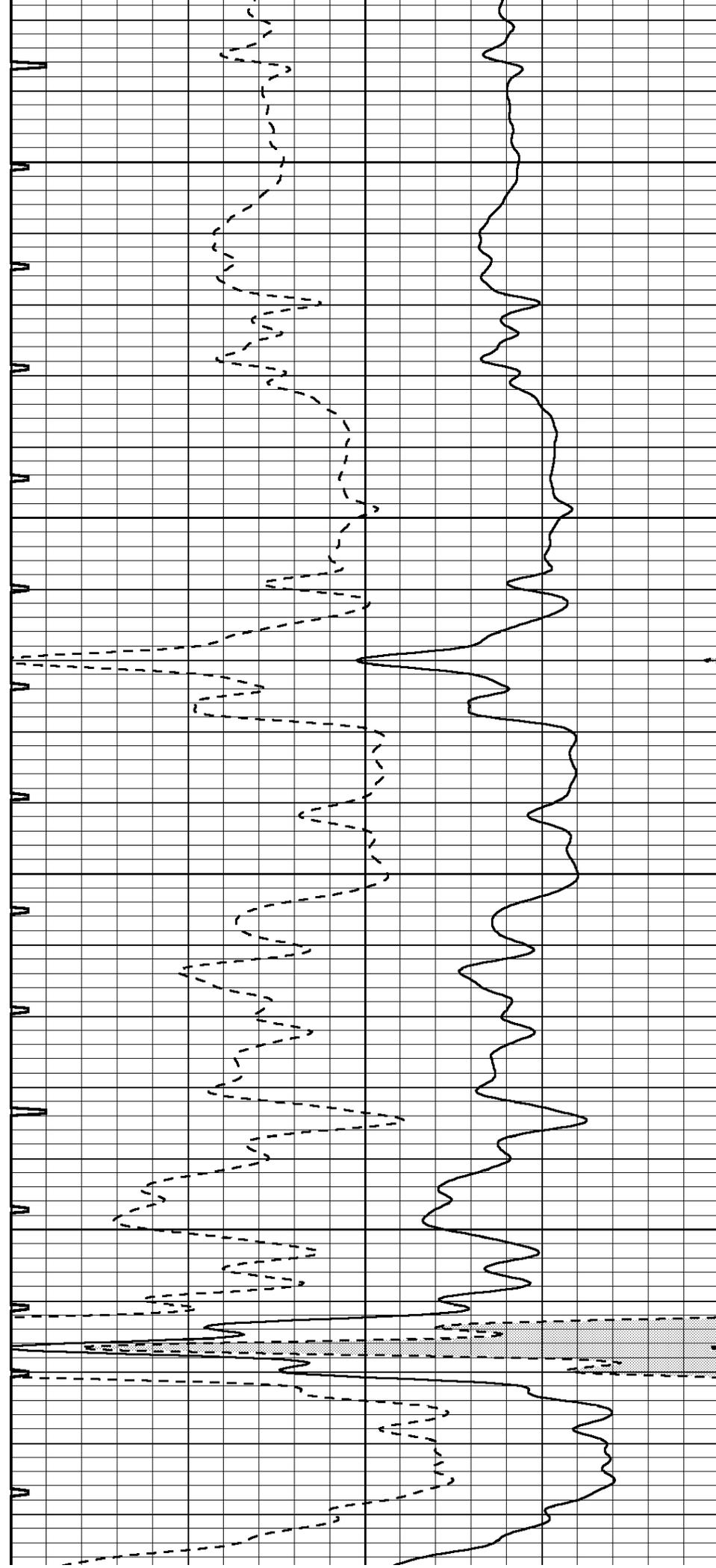


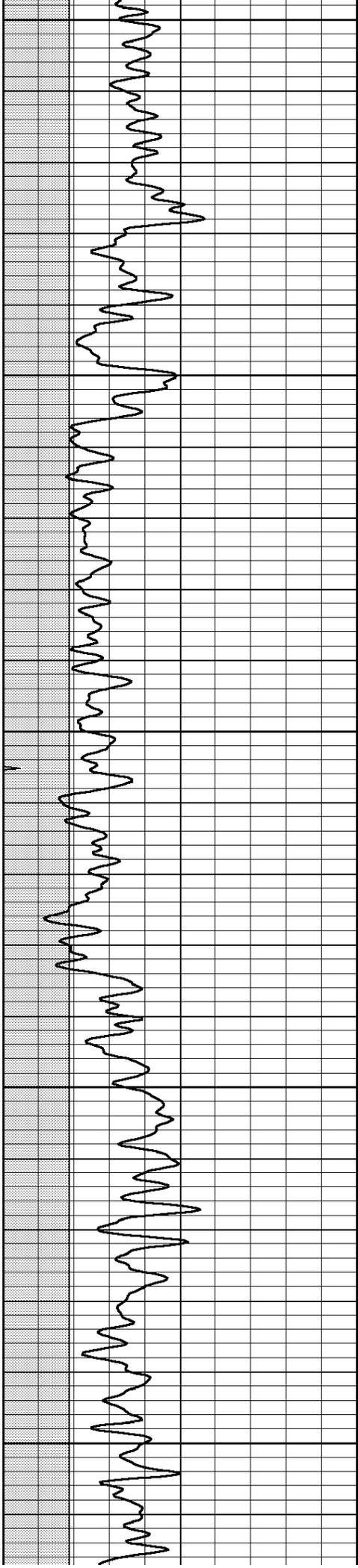
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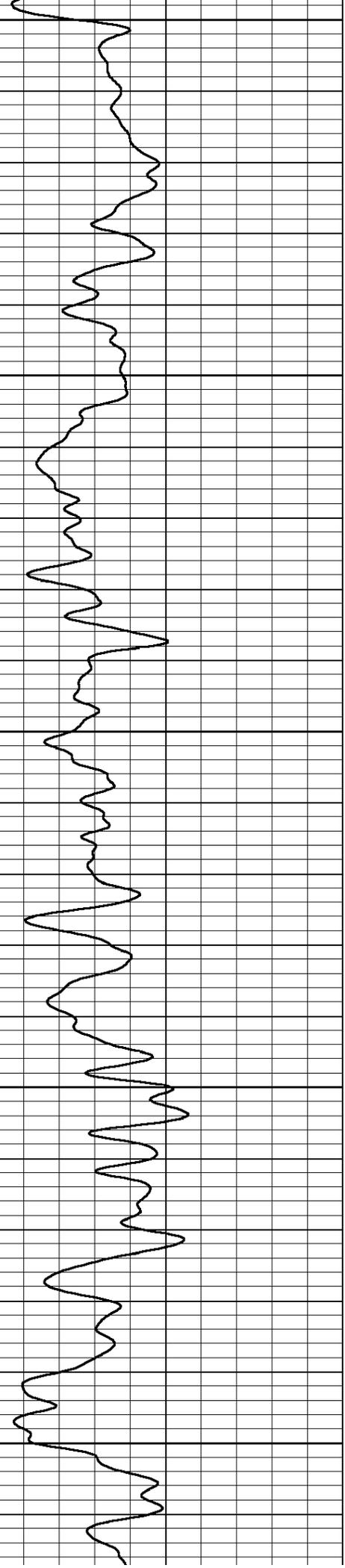
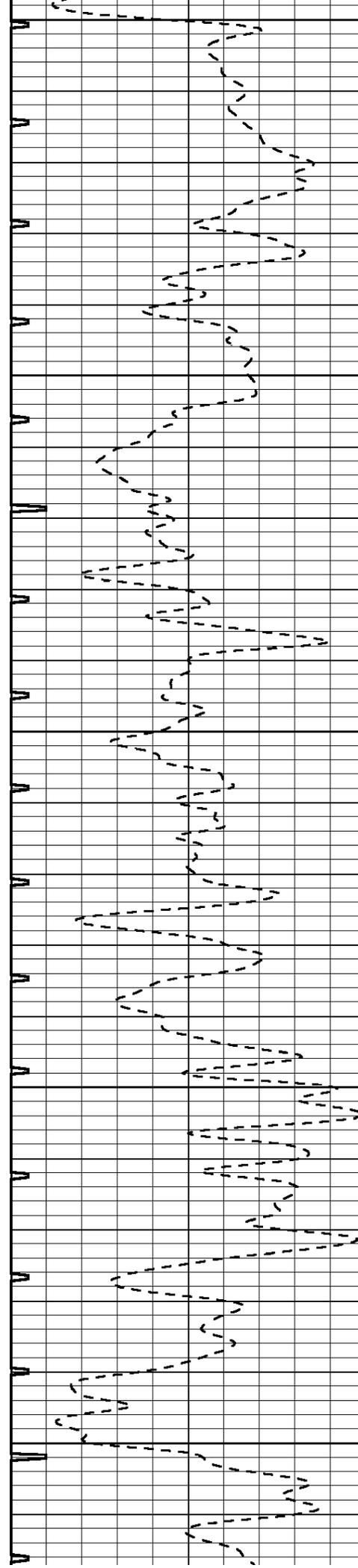
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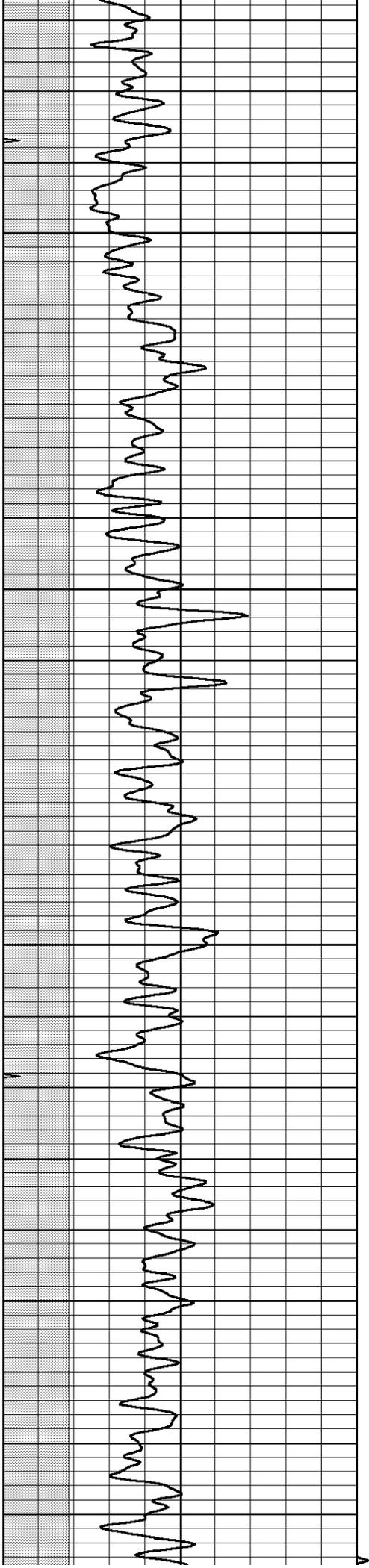
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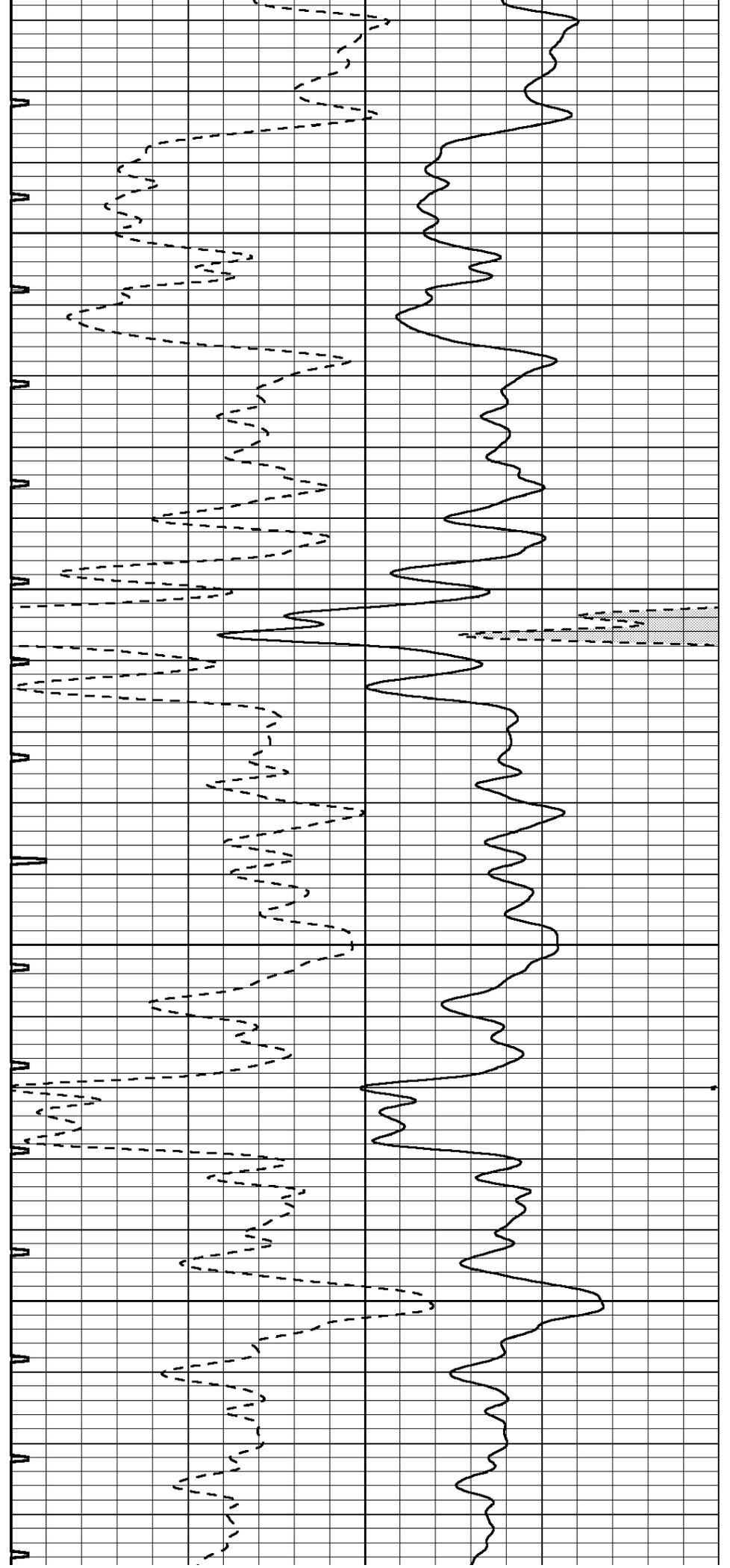


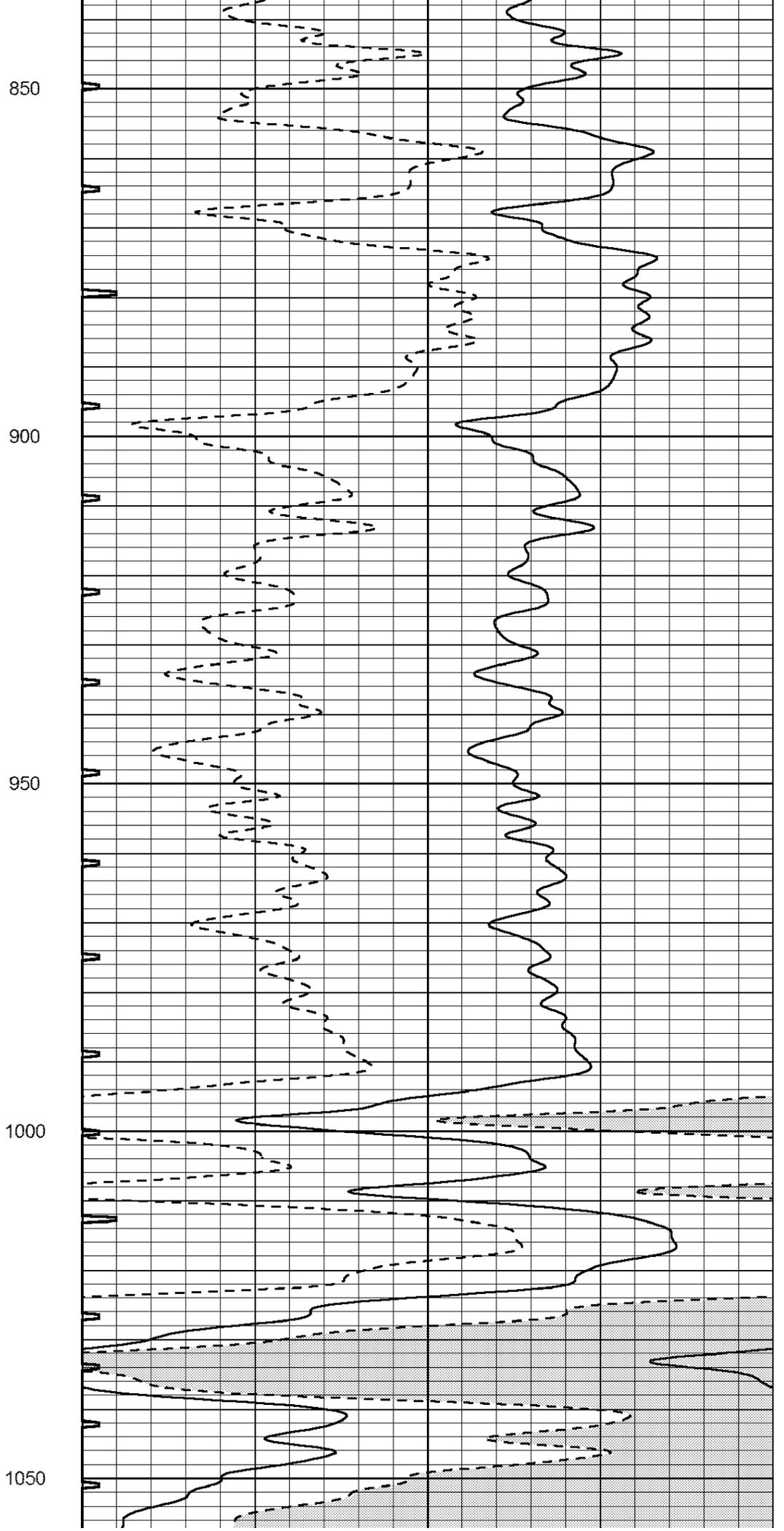
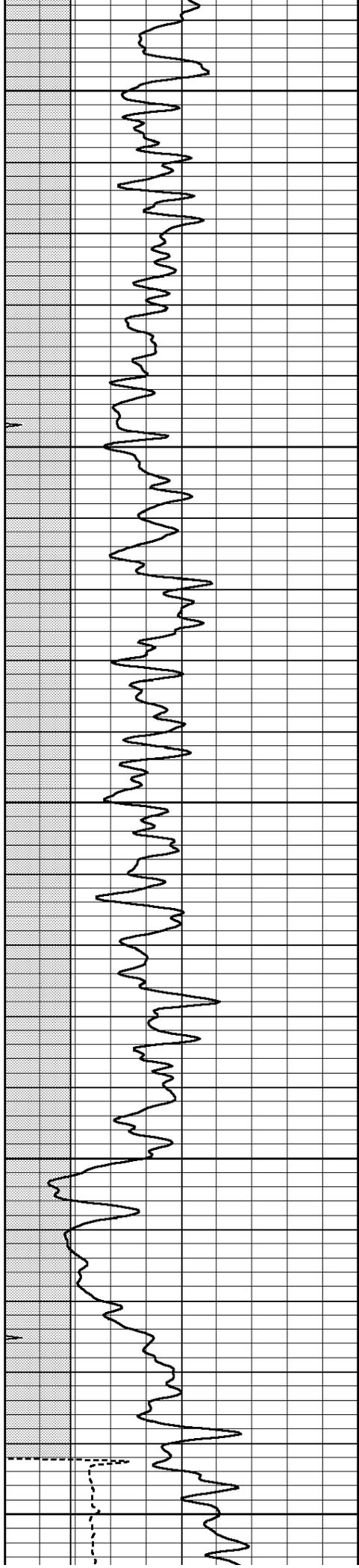
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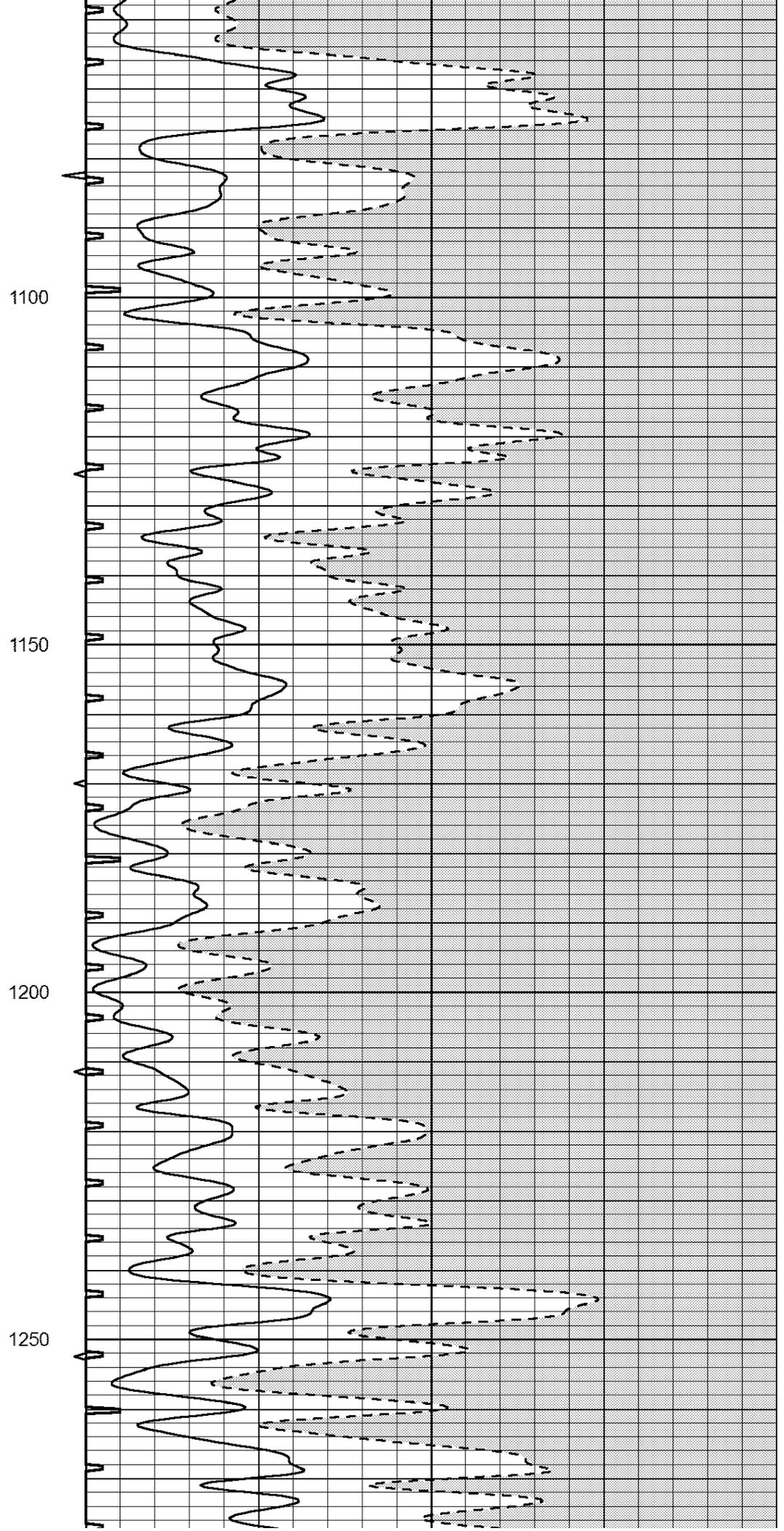
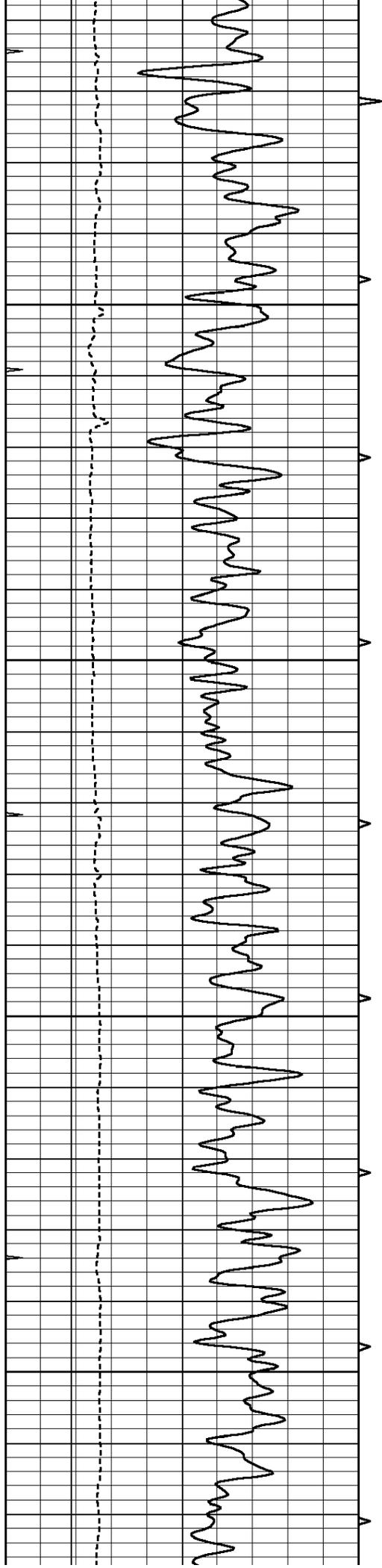
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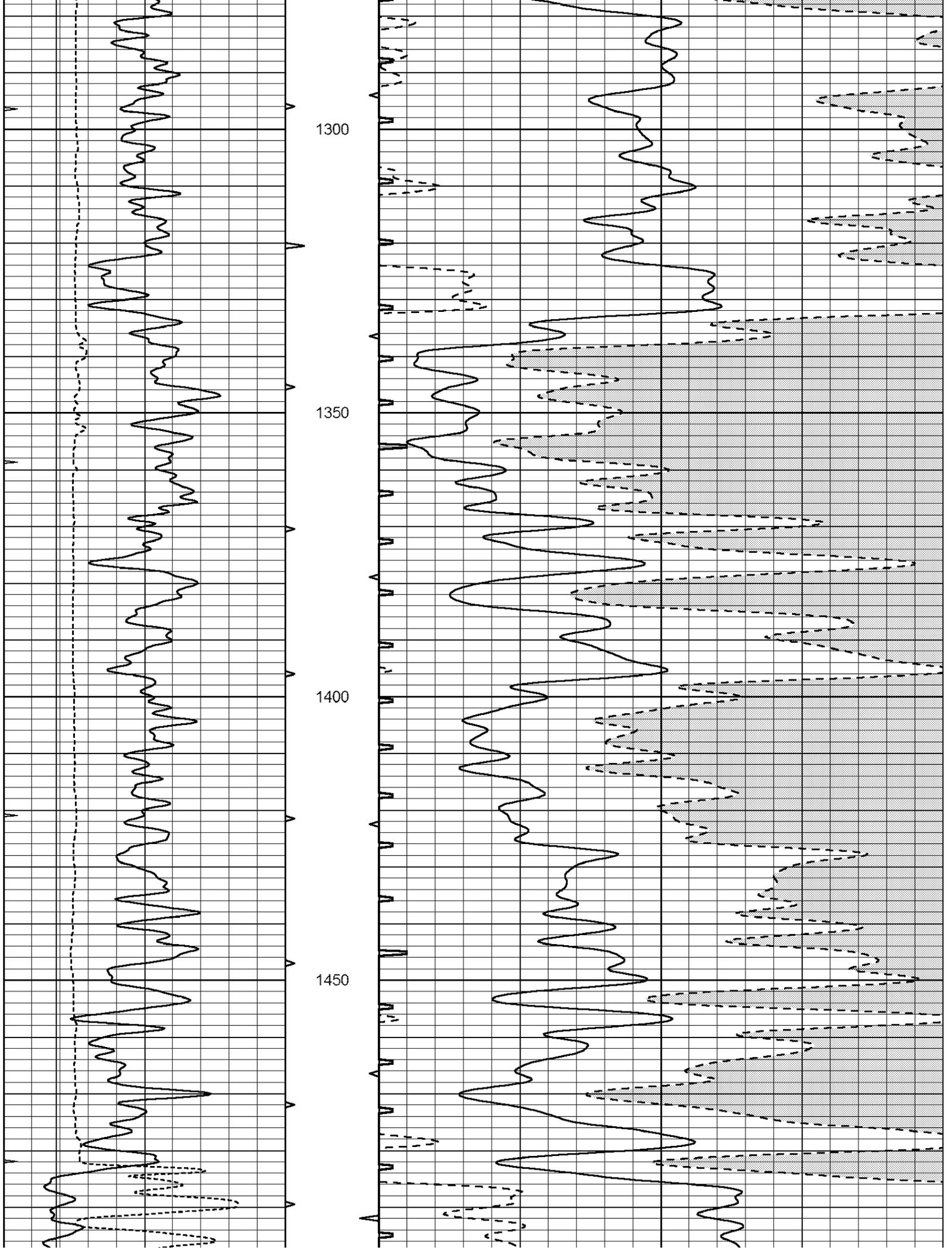
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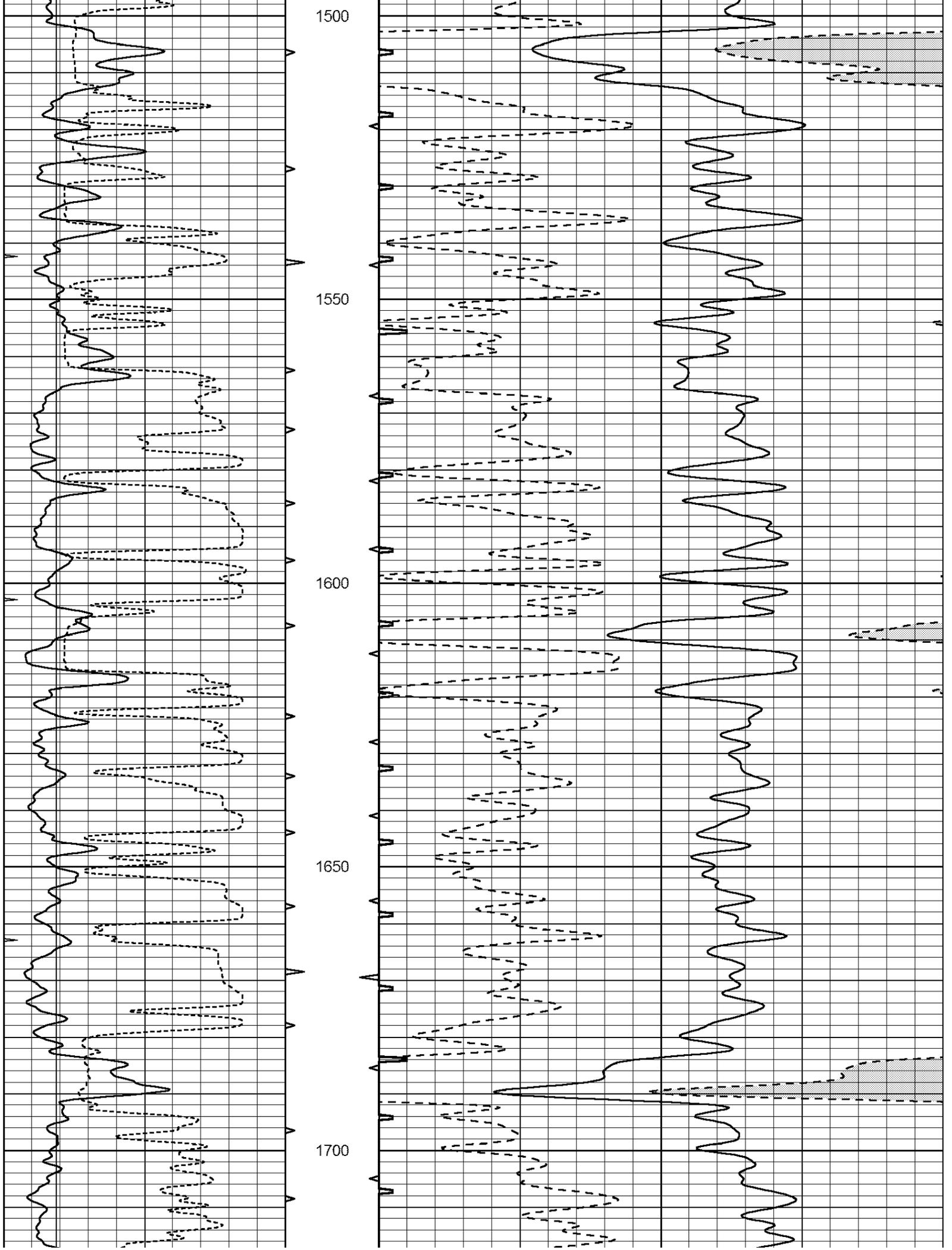
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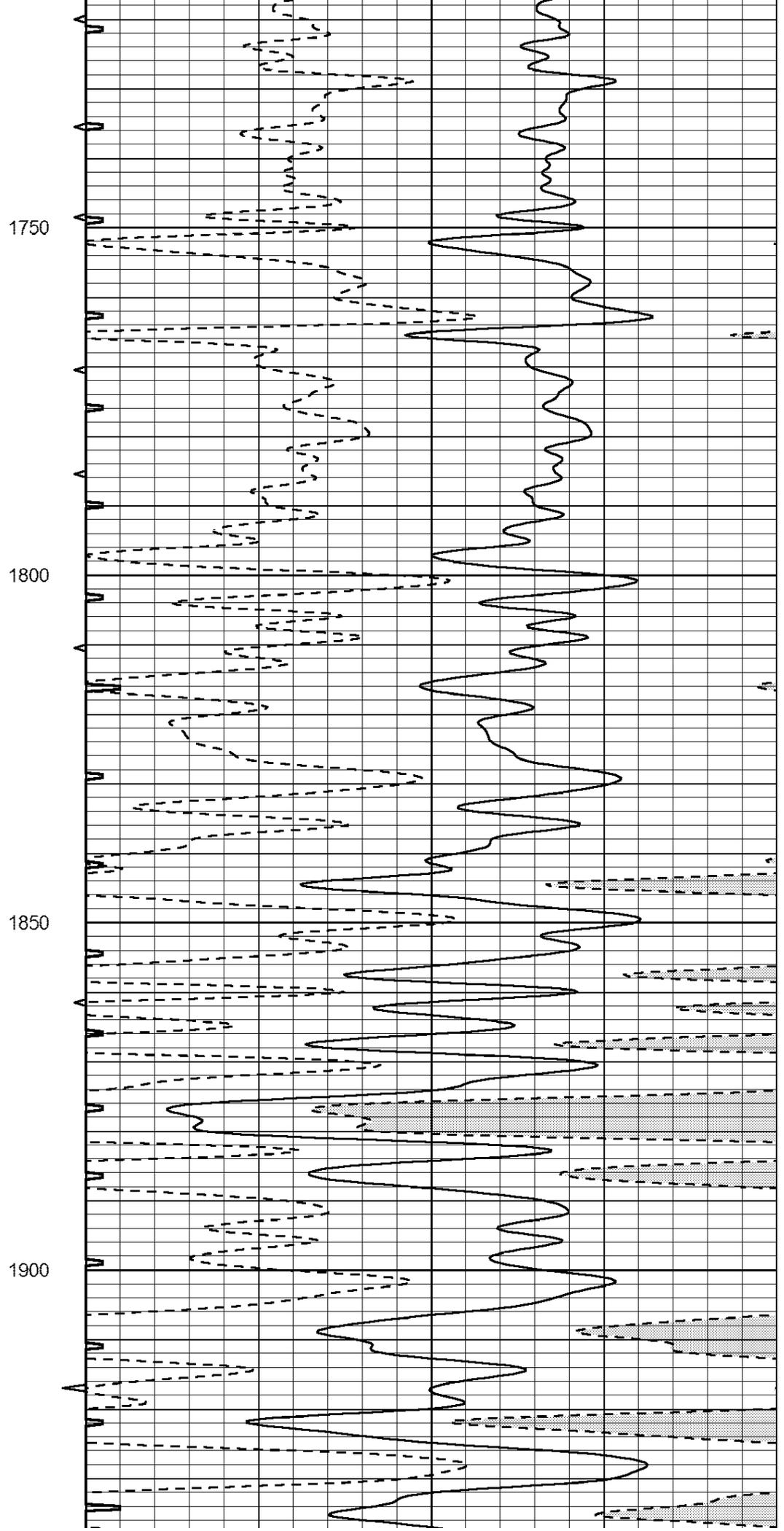
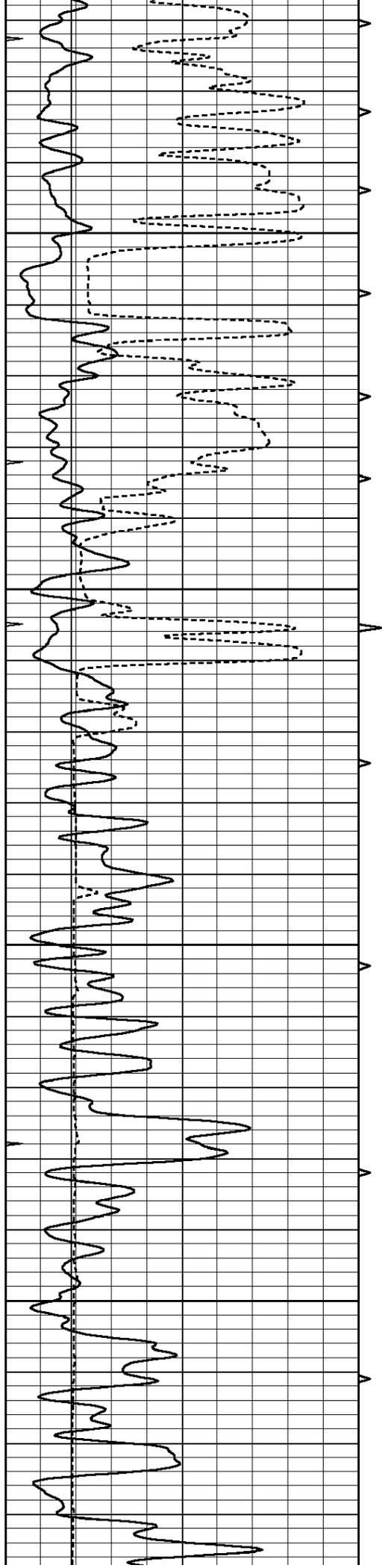


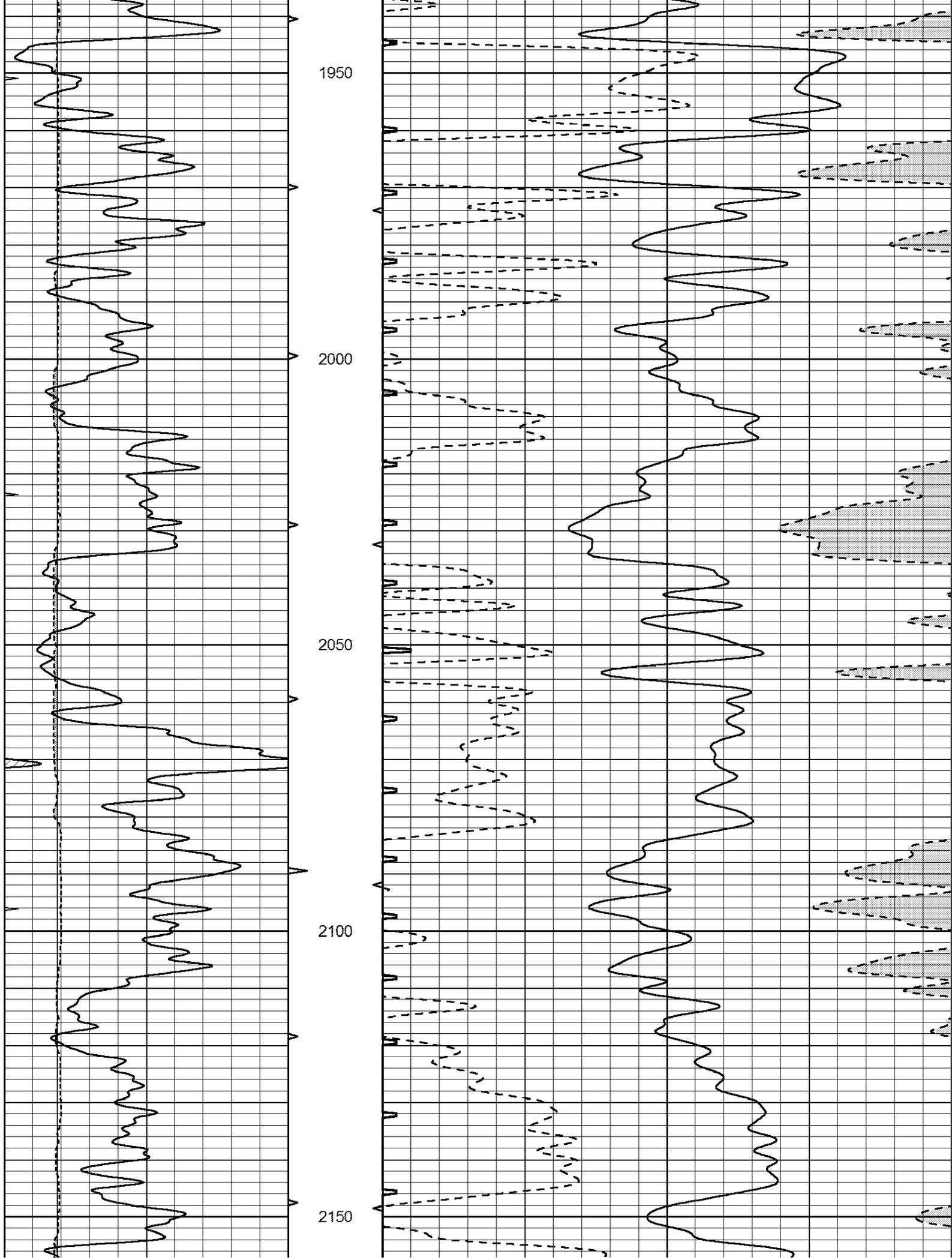


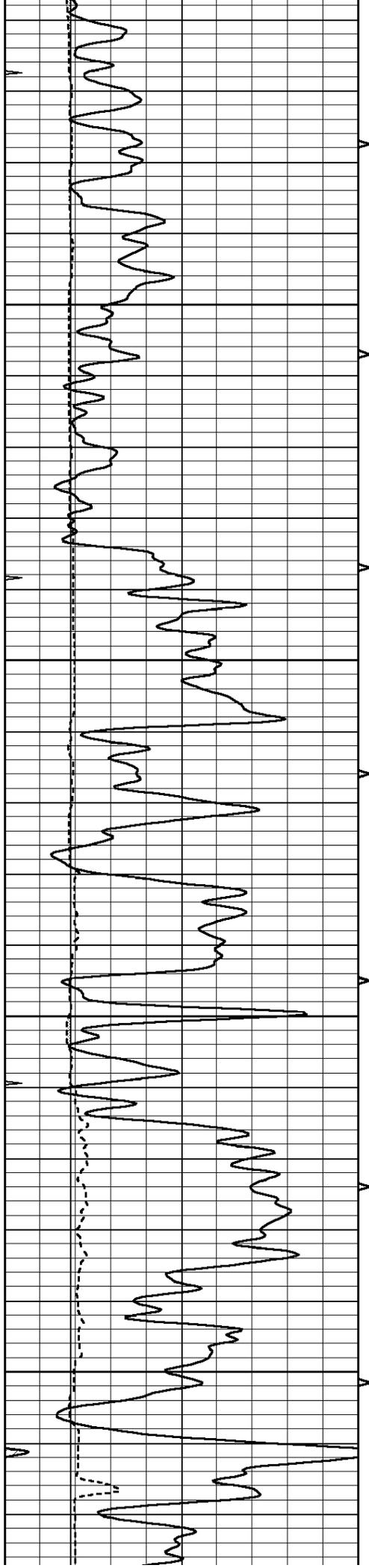










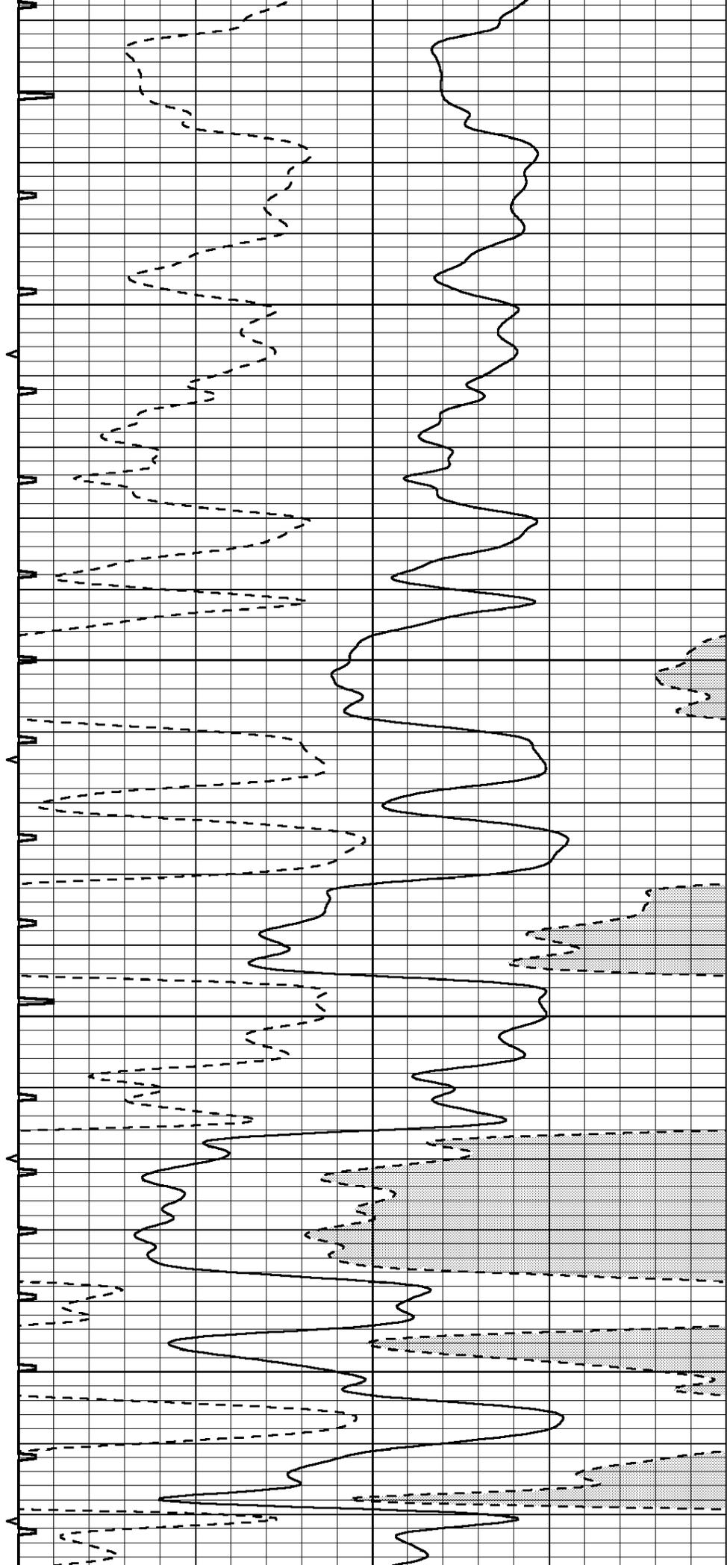


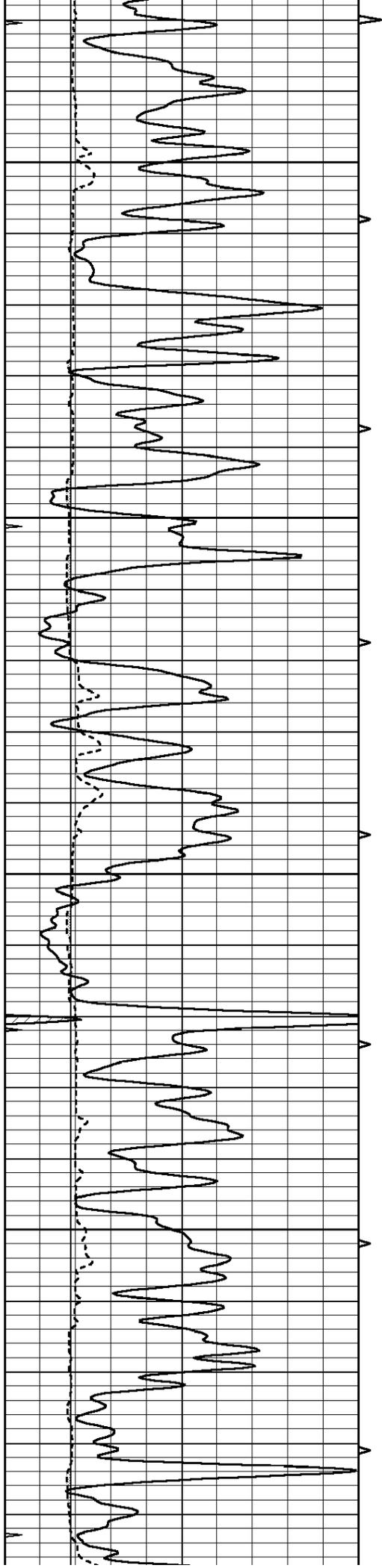
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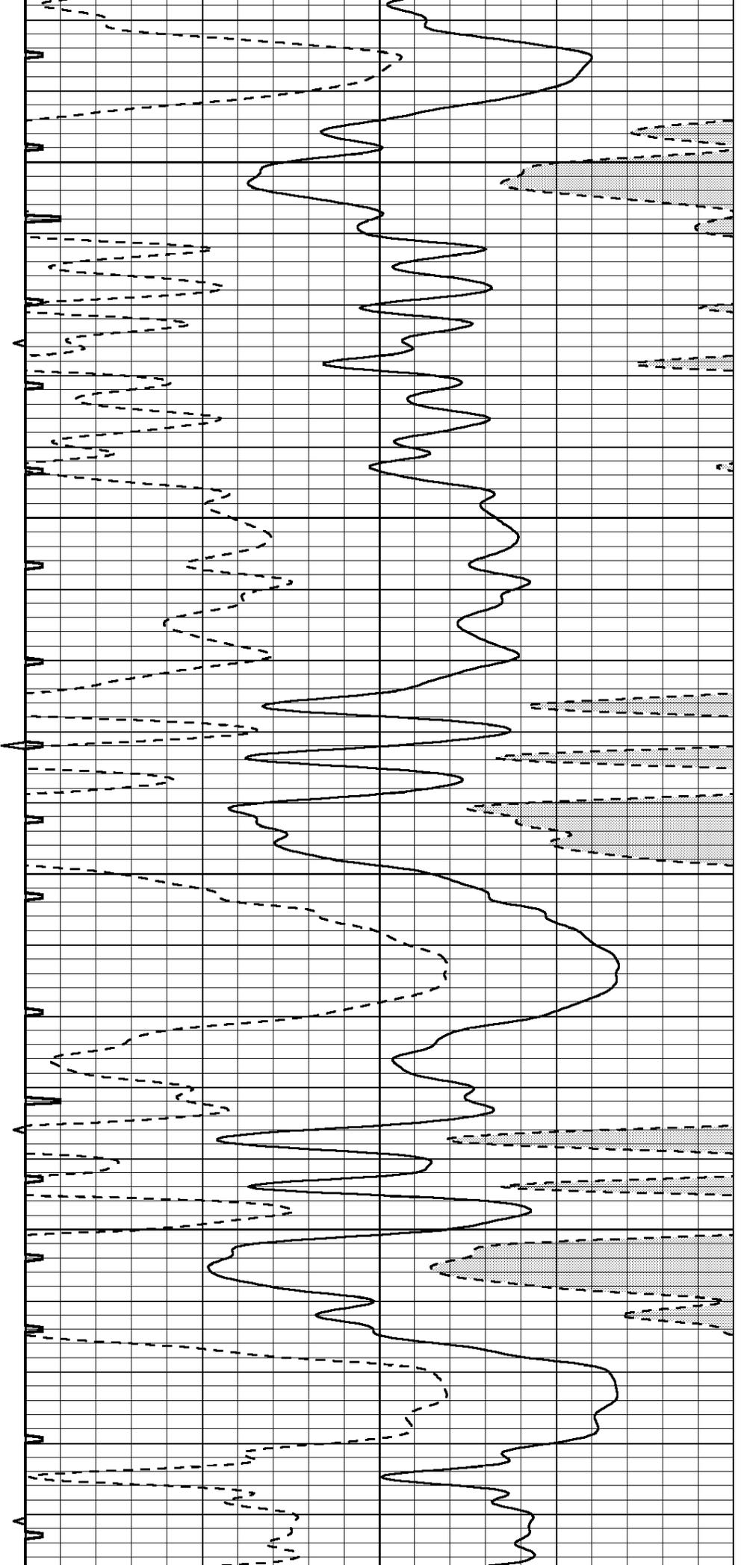


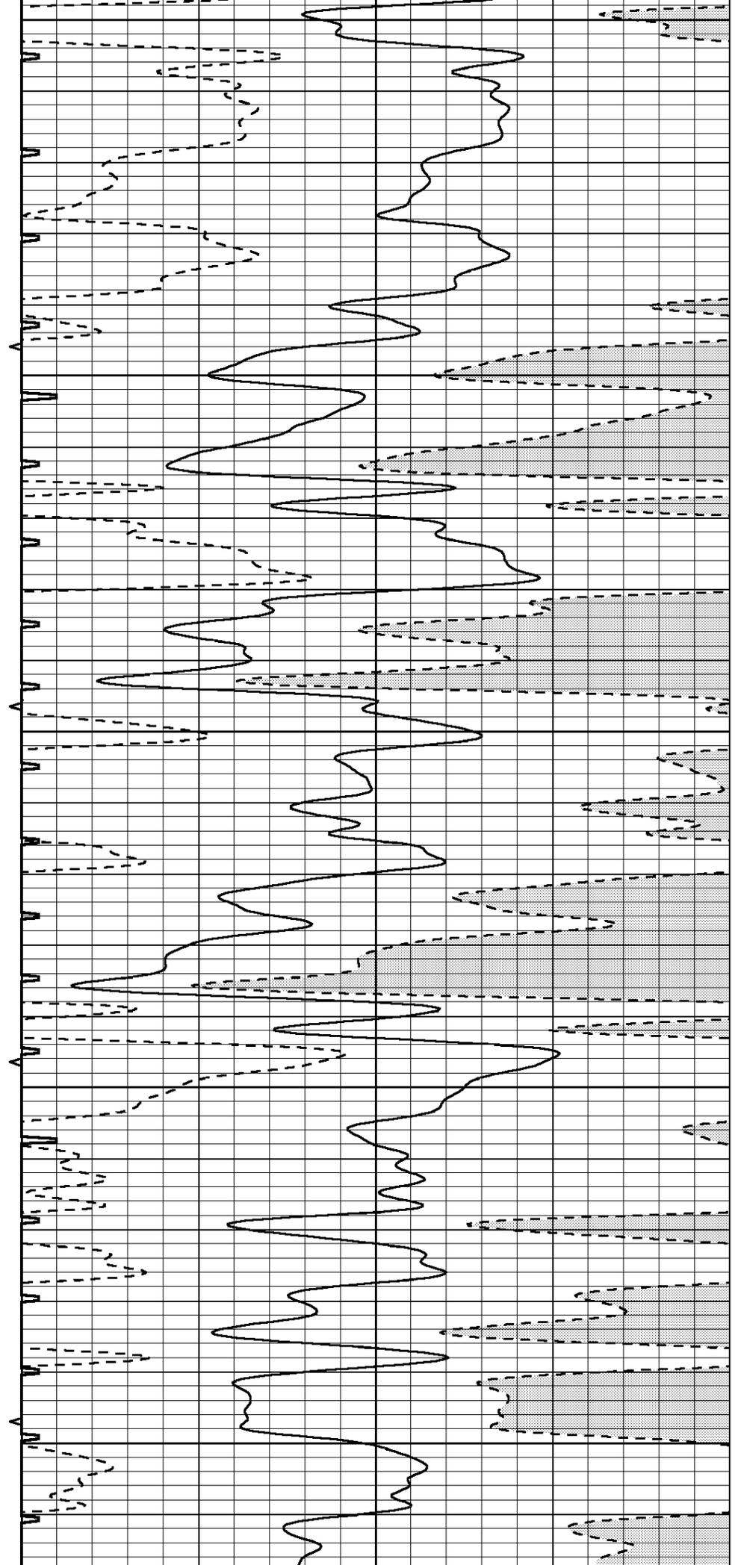
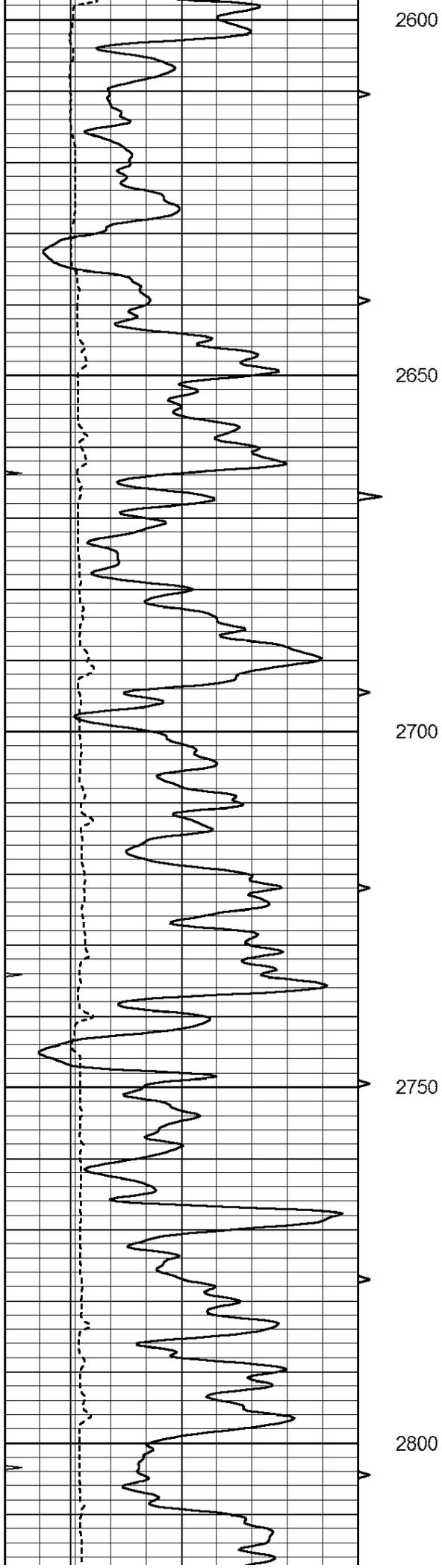
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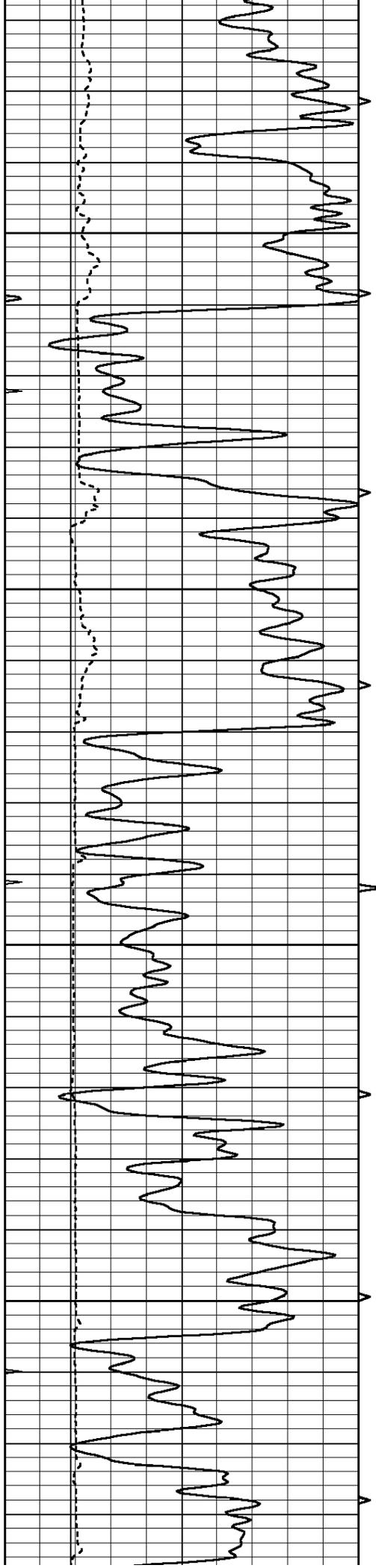
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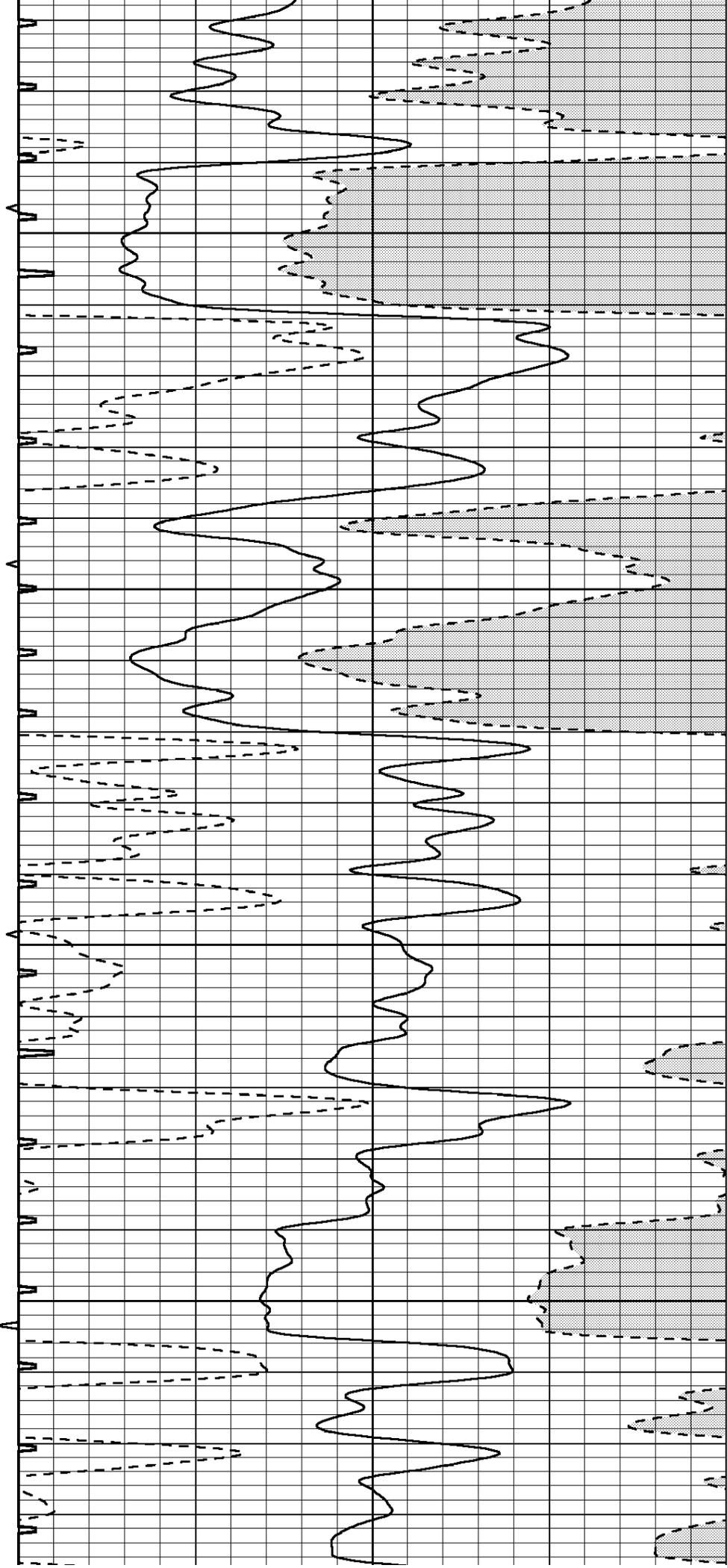


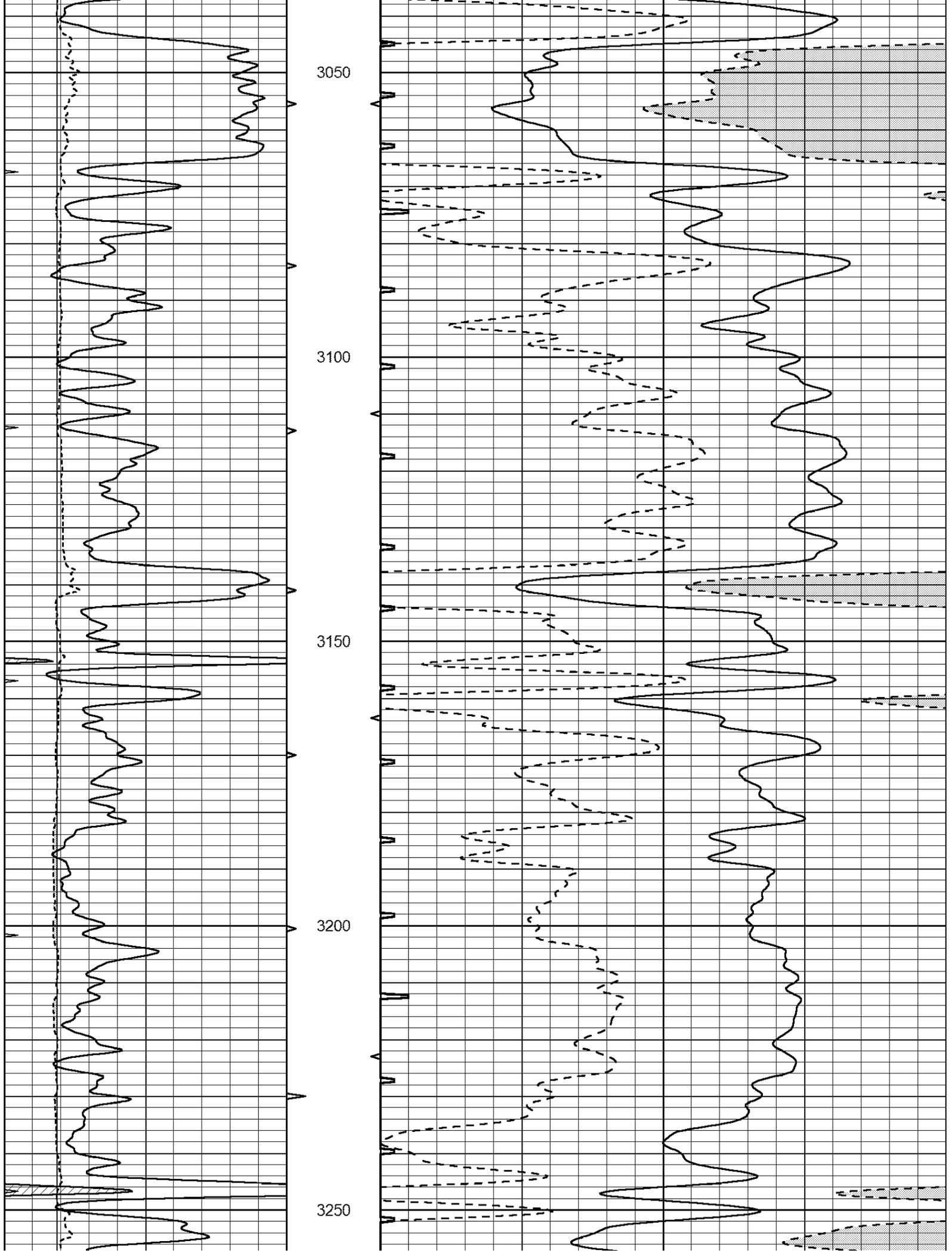
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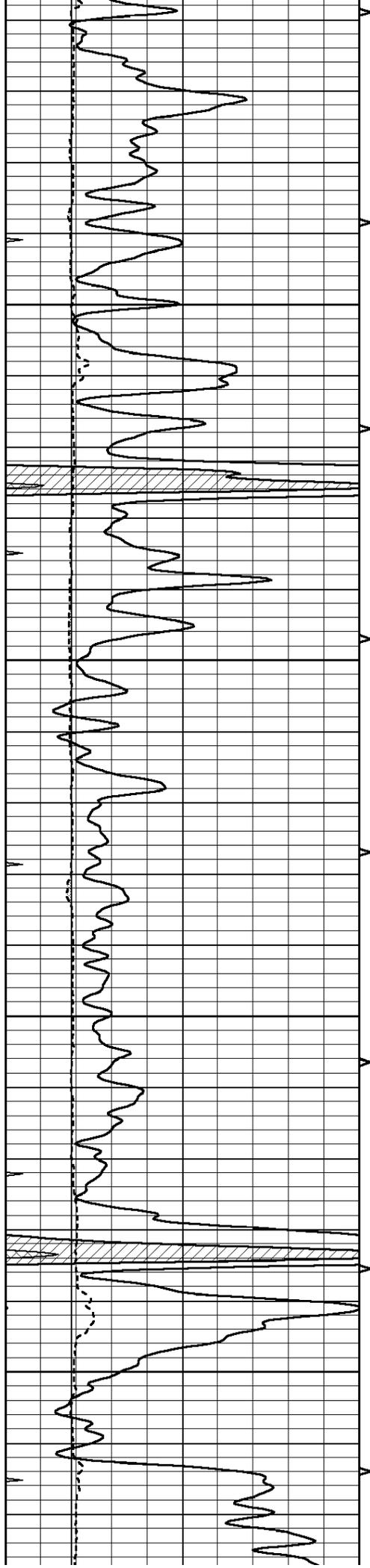
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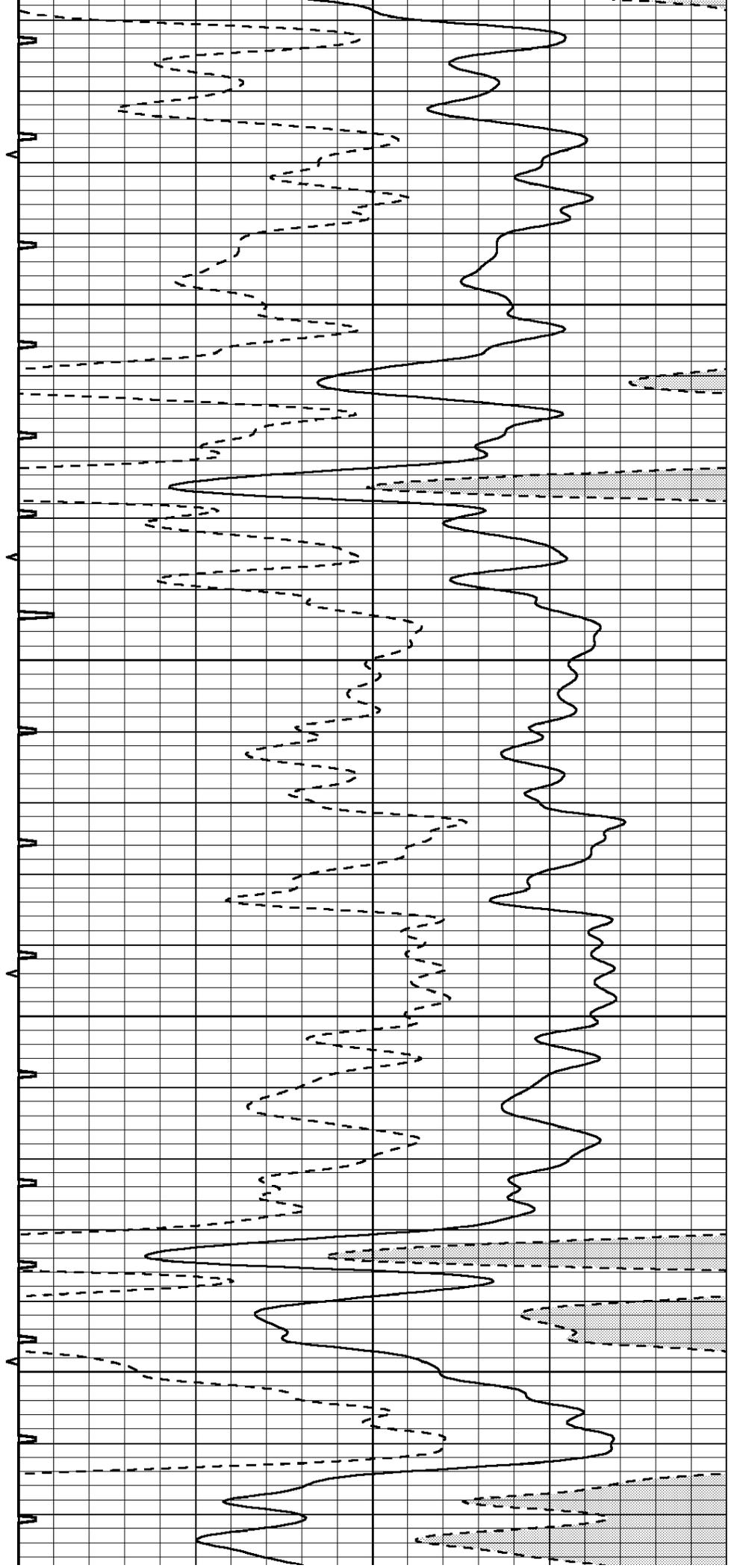


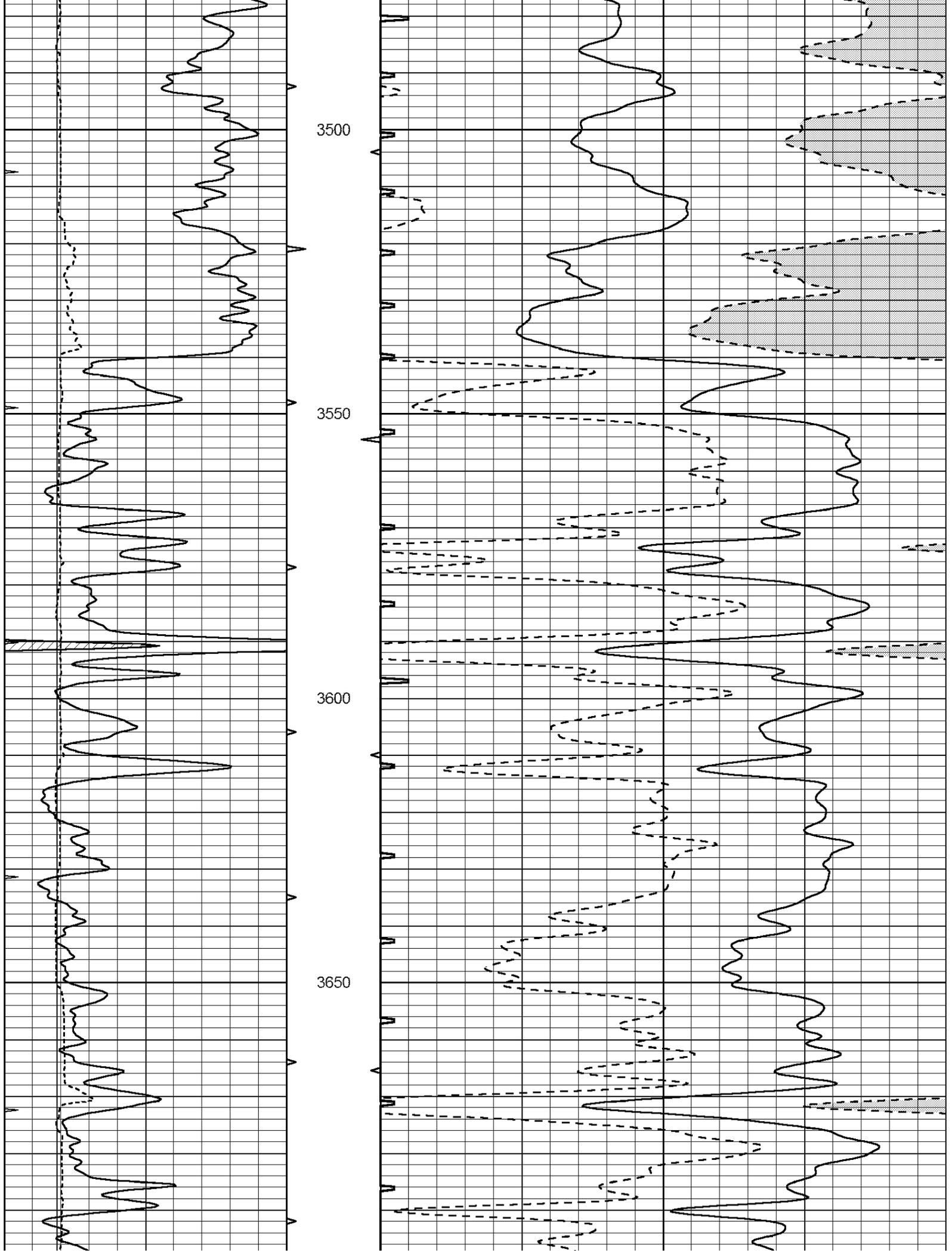
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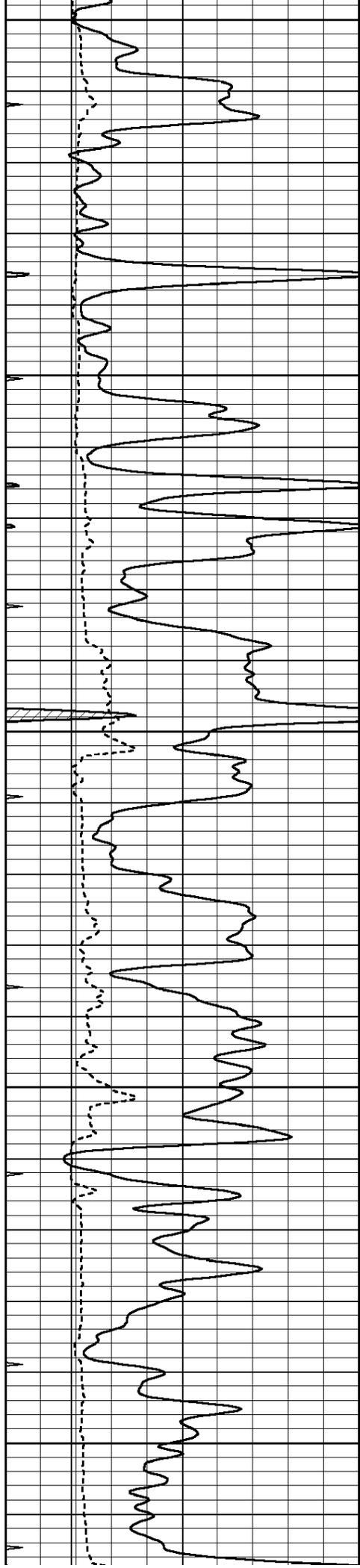
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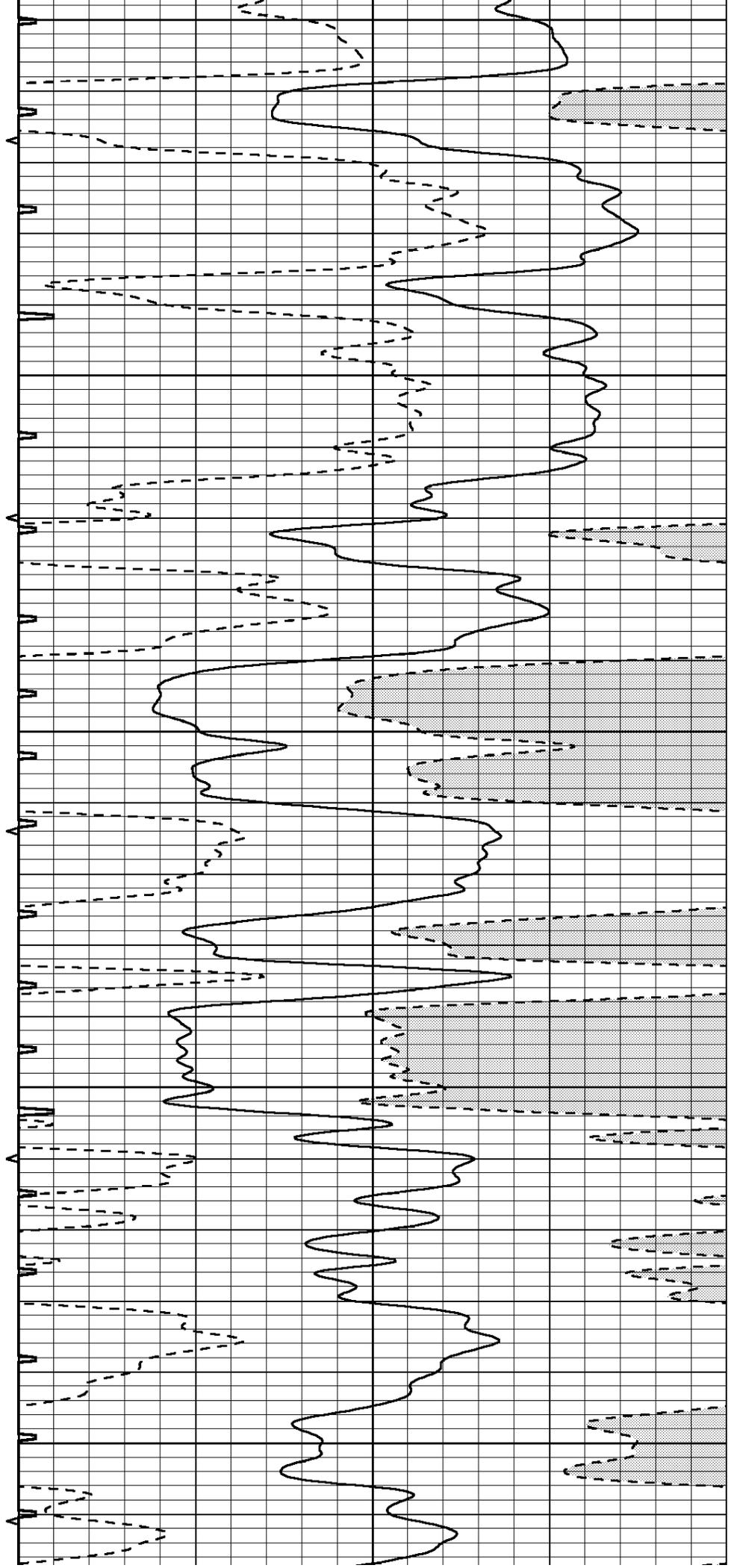
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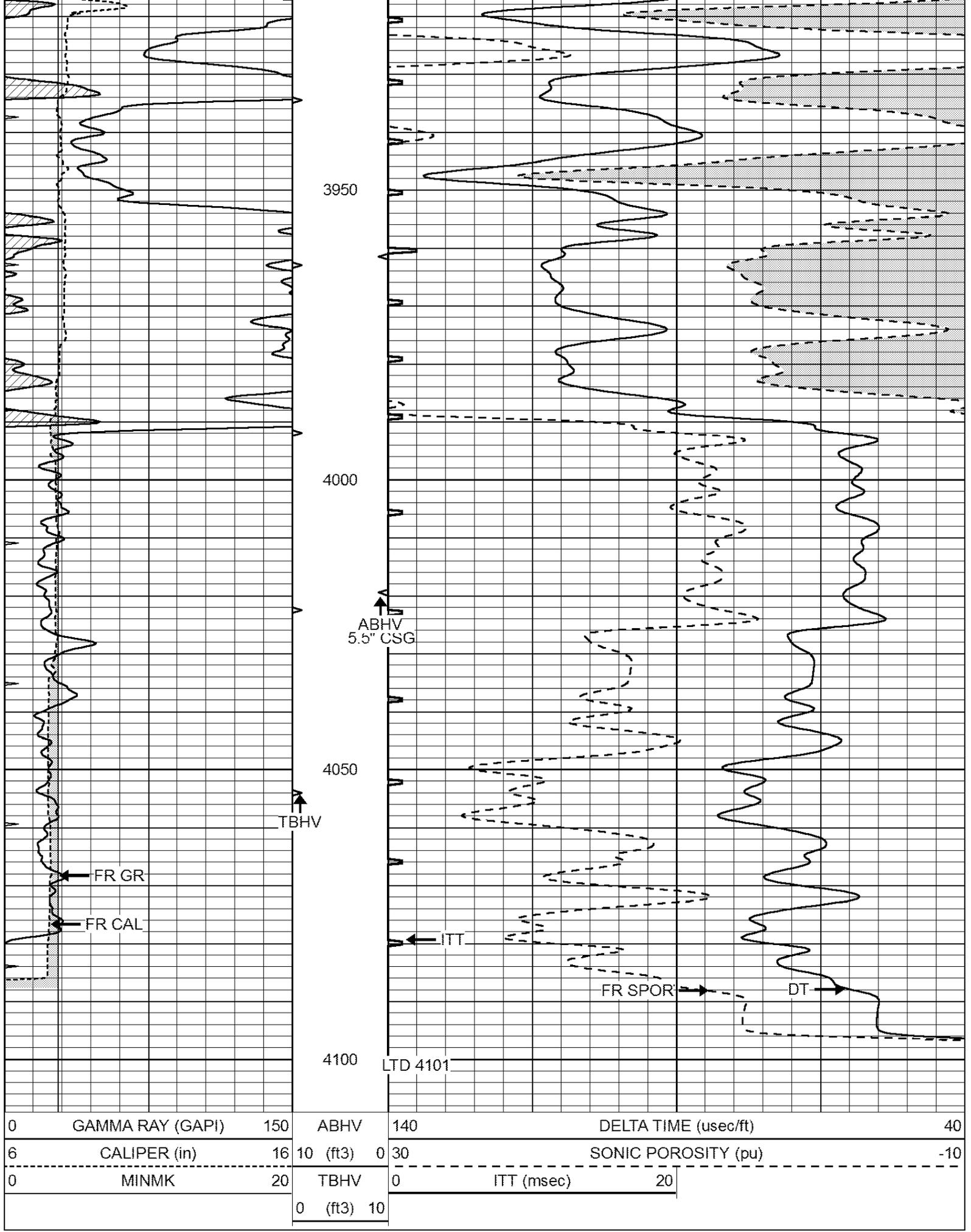
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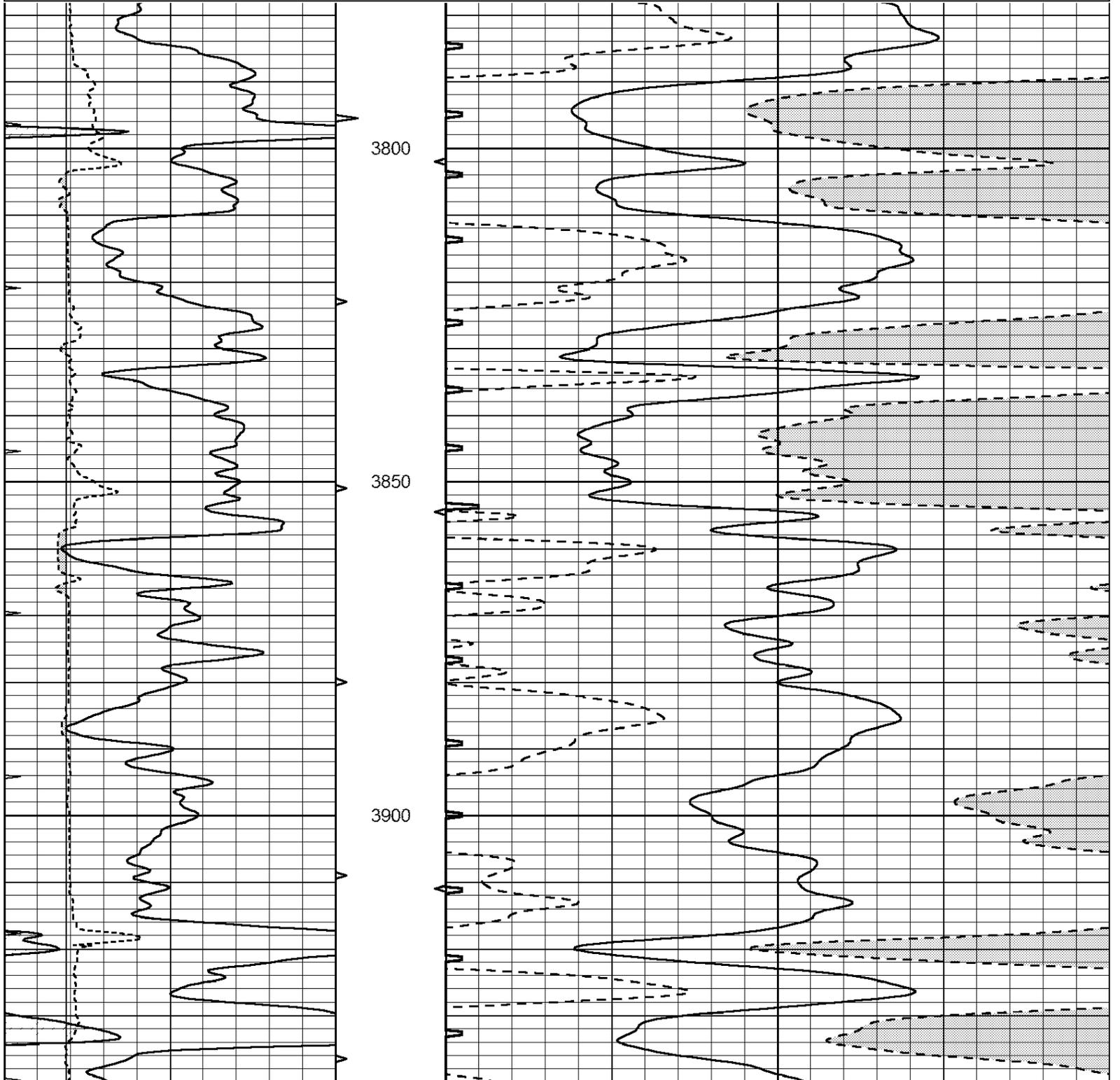
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6	CALIPER (in)	16	10 (ft3)	0 30	SONIC POROSITY (pu)	-10
0	MINMK	20	TBHV	0	ITT (msec)	20
			0 (ft3)	10		

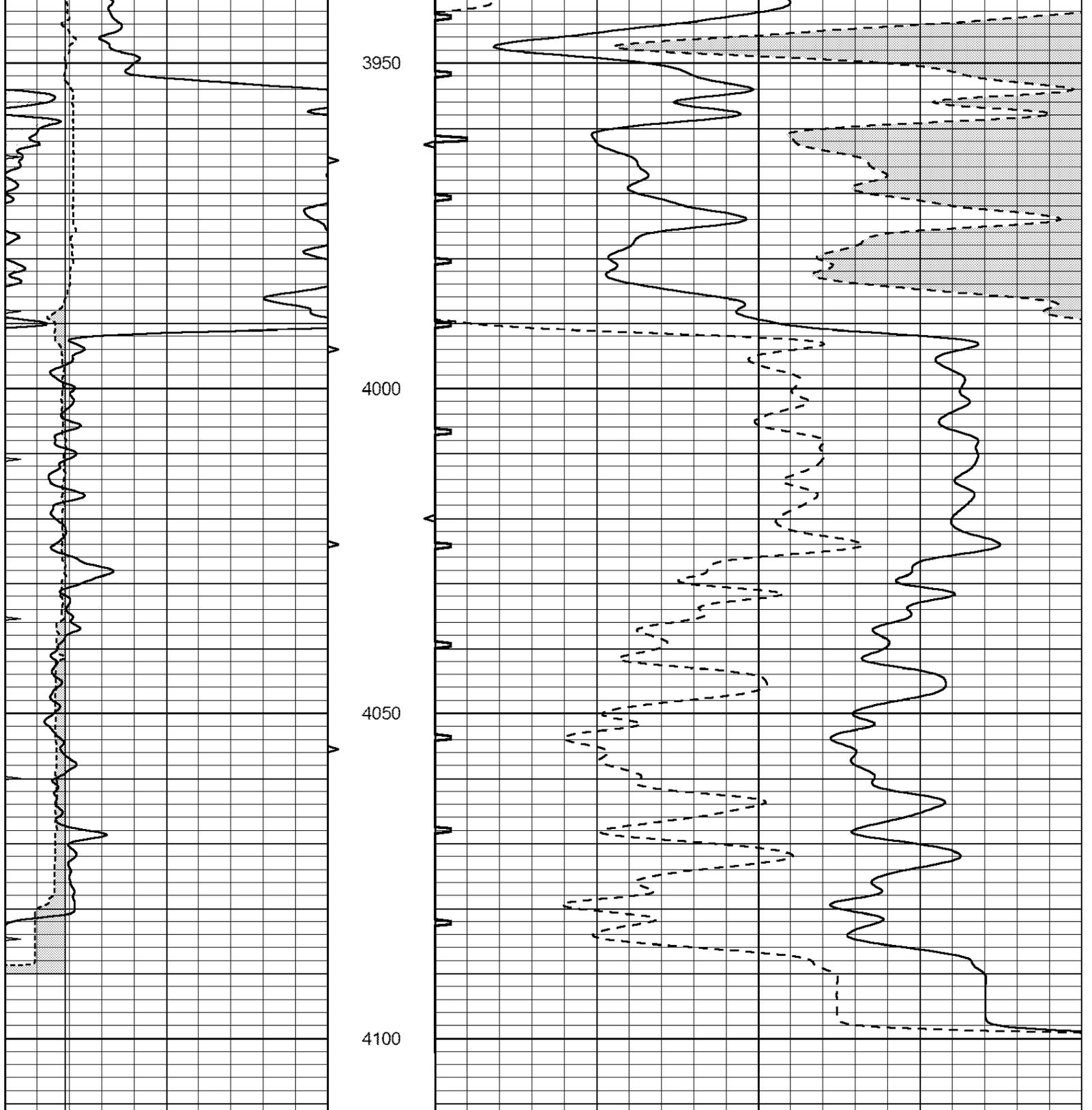


REPEAT SECTION

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0	MINMK	20	TBHV	0	ITT (msec)	20	
			0 (ft3)	10			





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		