



**COMPLETION
& PRODUCTION
SERVICES CO.**

**SONIC
LOG**

Company LB EXPLORATION, INC.
Well HOPKINS RANCH 31 #1
Field WILDCAT
County BARBER
State KANSAS

Company LB EXPLORATION, INC.
Well HOPKINS RANCH 31 #1
Field WILDCAT
County BARBER State KANSAS

Location: API # : 15-007-24268-00-00
330' FNL & 850' FEL
E2 - NW - NE - NE
SEC 31 TWP 32S RGE 13W
Permanent Datum GROUND LEVEL Elevation 1715
Log Measured From KELLY BUSHING 13' A.G.L.
Drilling Measured From KELLY BUSHING
Other Services
CDL/CNL/PE
DIL/MEL
Elevation
K.B. 1728
D.F. 1726
G.L. 1715

Date	2/8/15
Run Number	TWO
Depth Driller	5307
Depth Logger	5302
Bottom Logged Interval	5292
Top Log Interval	150
Casing Driller	13 3/8" @ 221'
Casing Logger	220'
Bit Size	7 7/8"
Type Fluid in Hole	CHEMICAL MUD
Density / Viscosity	9.2/52
pH / Fluid Loss	10.0/8.0
Source of Sample	FLOWLINE
Rim @ Meas. Temp	.75 @ 60F
Rmf @ Meas. Temp	.56 @ 60F
Rmc @ Meas. Temp	.90 @ 60F
Source of Rmf / Rmc	MEASUREMENT
Rim @ BHT	.51 @ 128F
Time Circulation Stopped	3 HOURS
Time Logger on Bottom	
Maximum Recorded Temperature	128F
Equipment Number	4854
Location	HAYS, KANSAS
Recorded By	IAN MABB
Witnessed By	STEVEN PETERMANN
	BLAKE WAGGONER

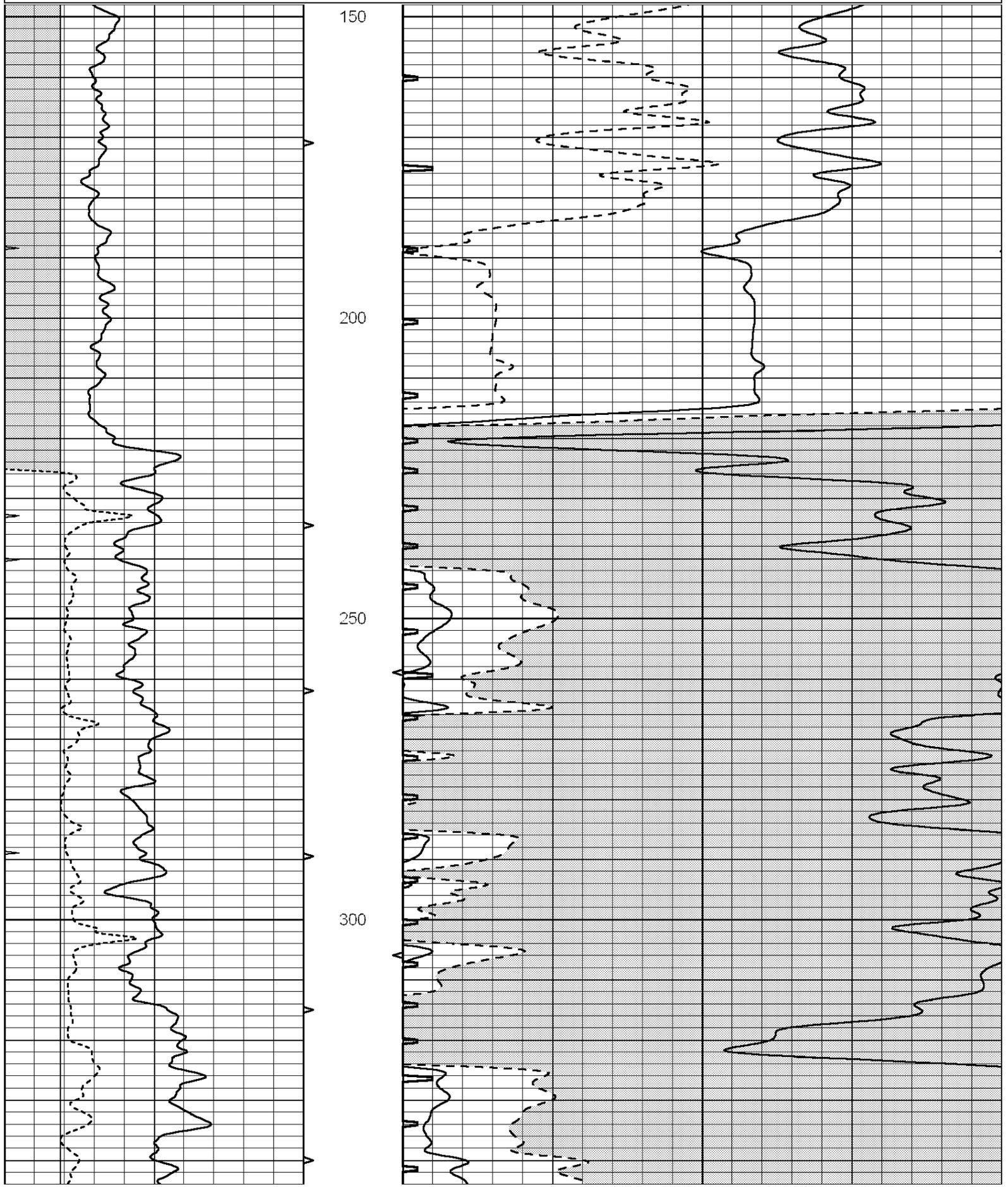
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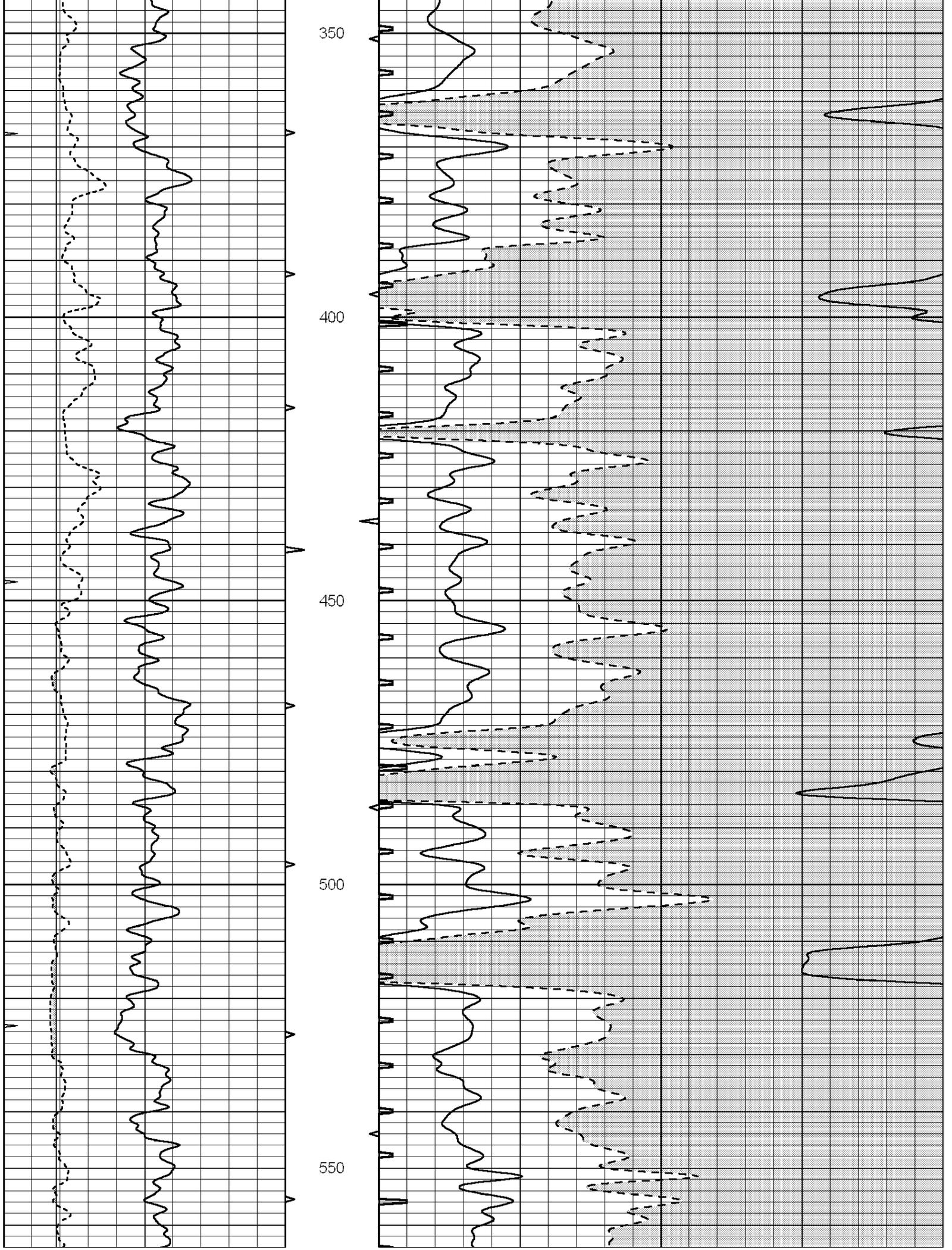
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

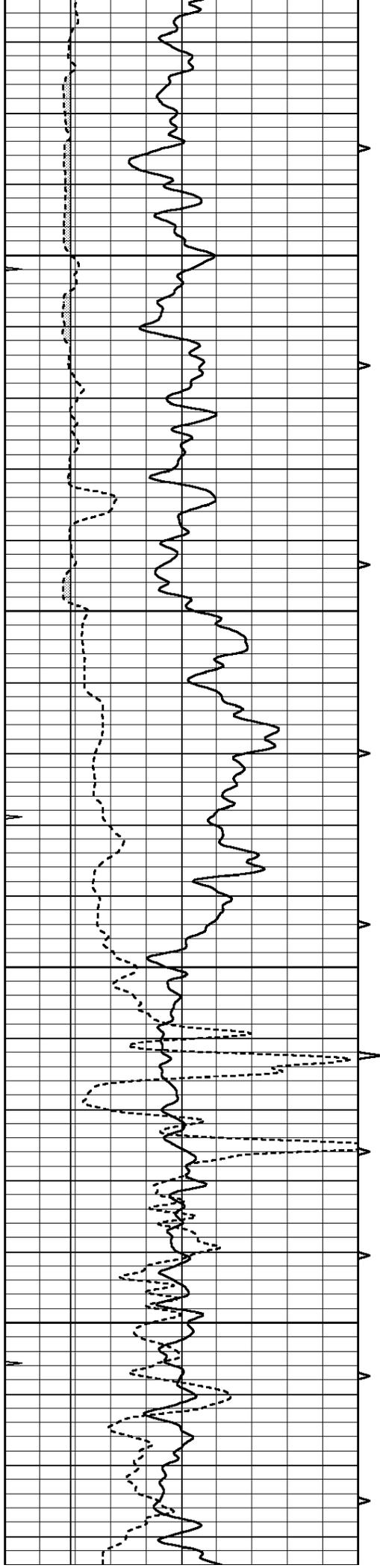
Comments

THANK YOU FOR USING "NABORS" HAYS, KANSAS (785) 628-6395
DIRECTIONS
COLWATER, KS, APPROX. 28E. TO "LAKE CITY RD.", 5S. TO "BITTER CREEK RD.", 2E., S.E. ON MAIN TRAIL, STAY RIGHT AT FORKS

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			





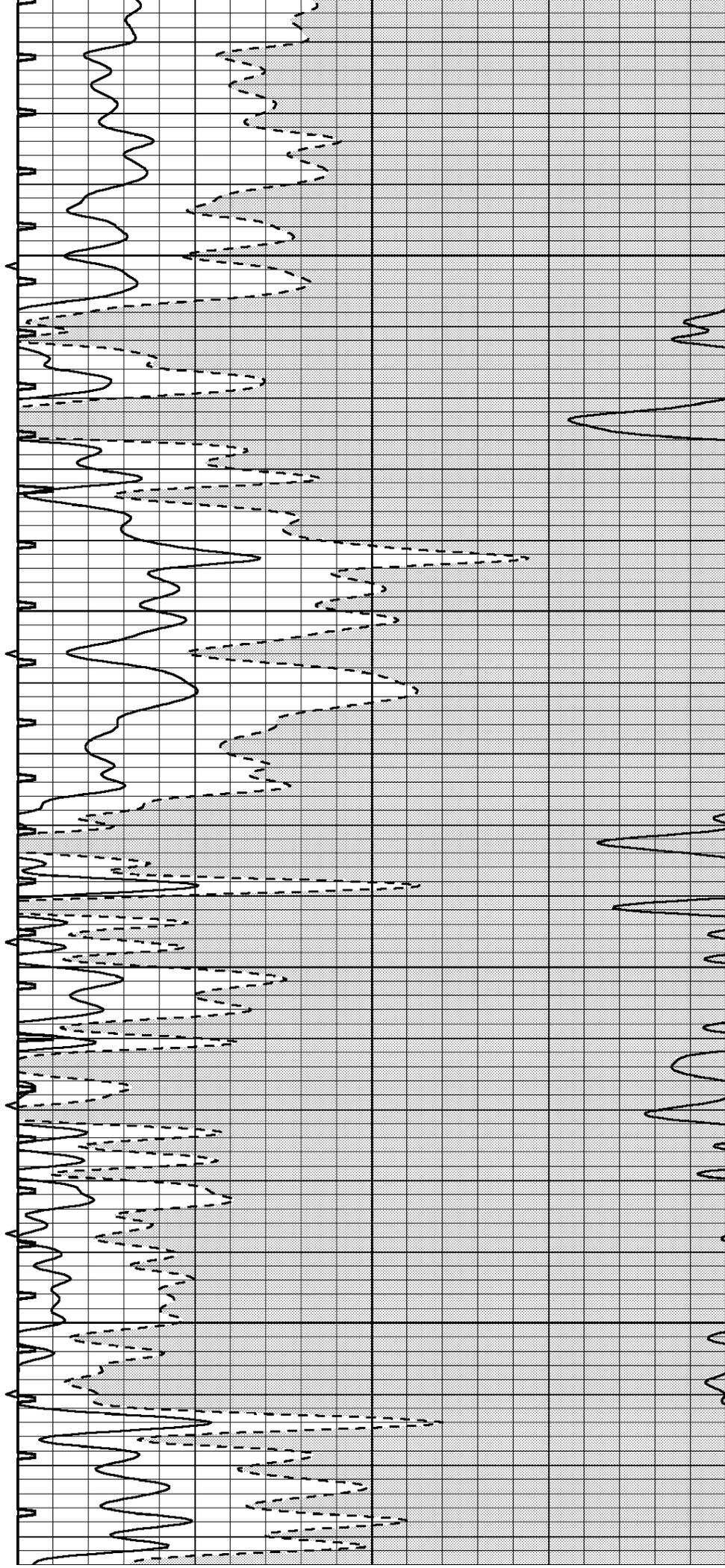


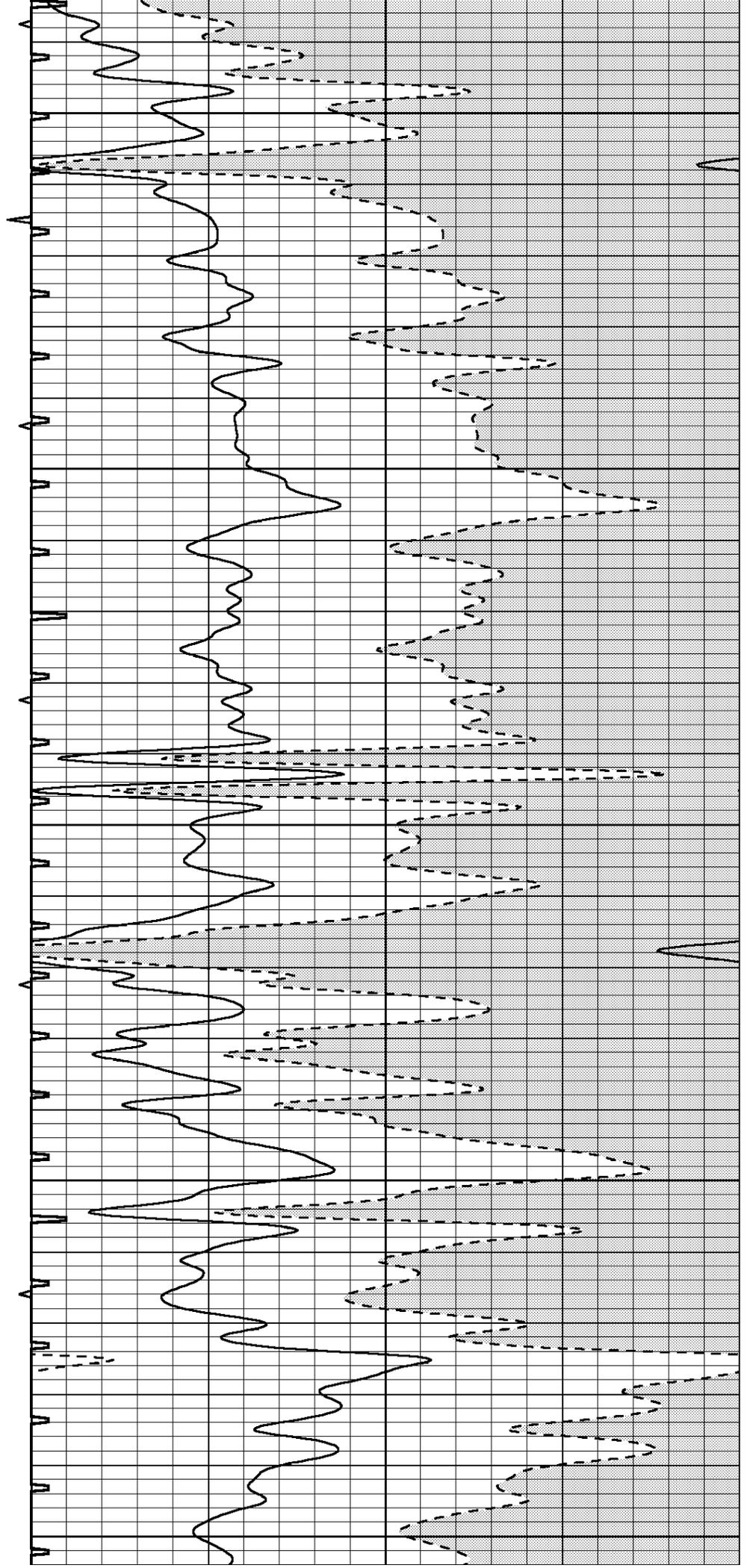
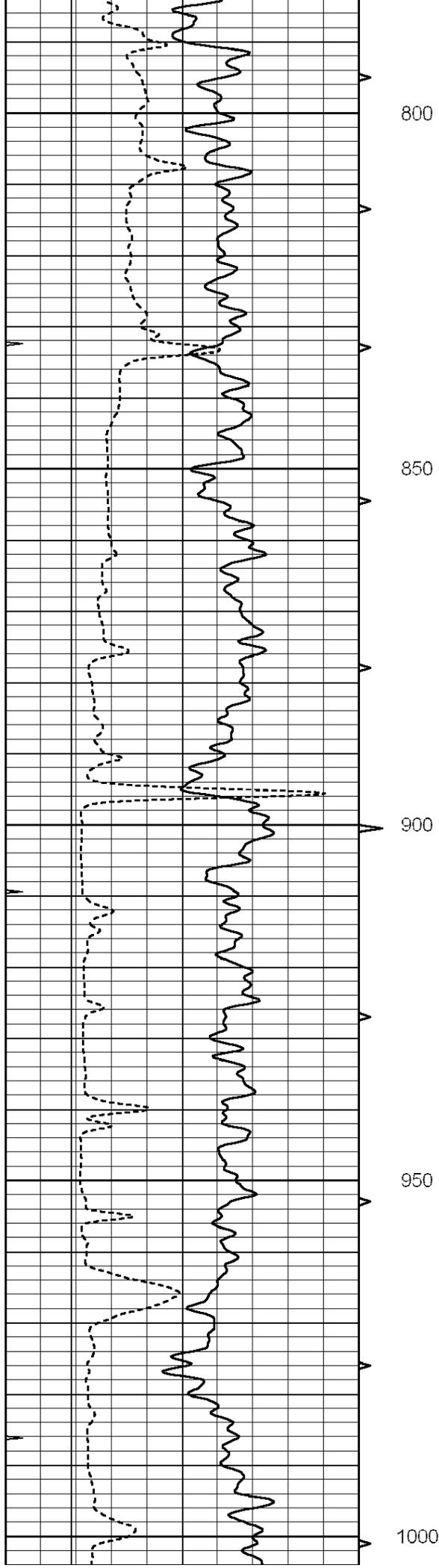
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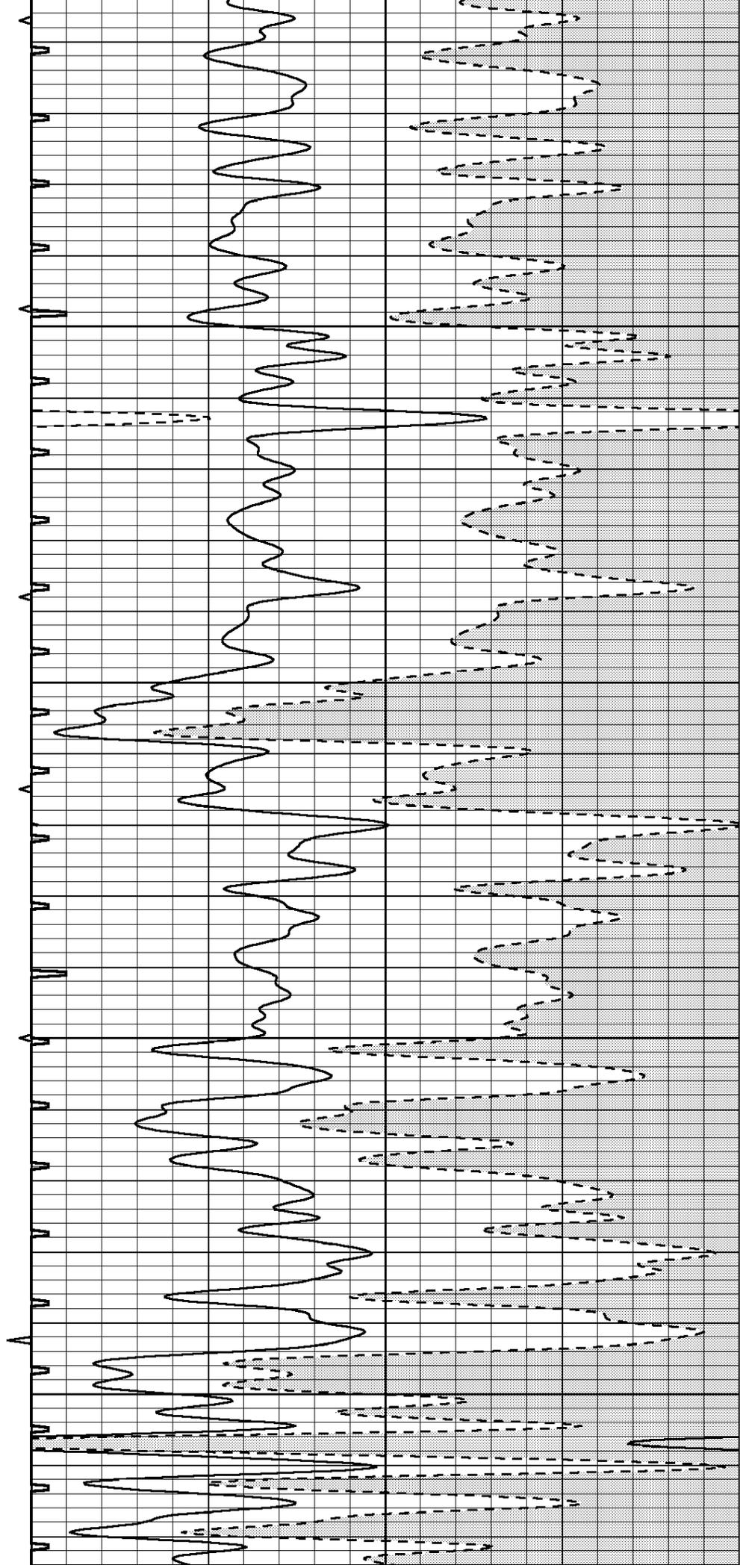
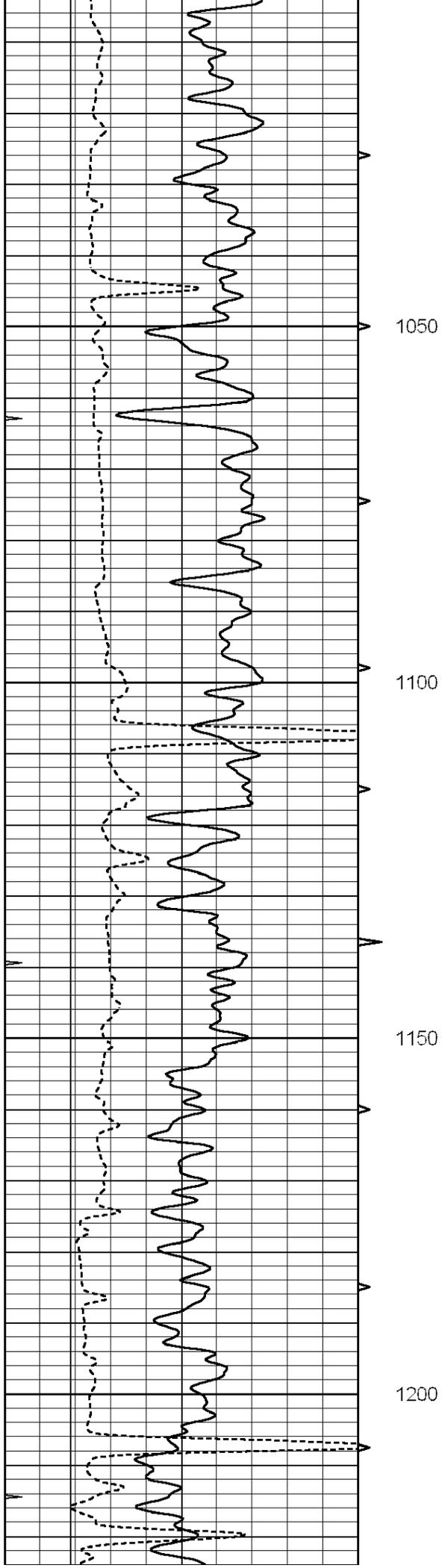
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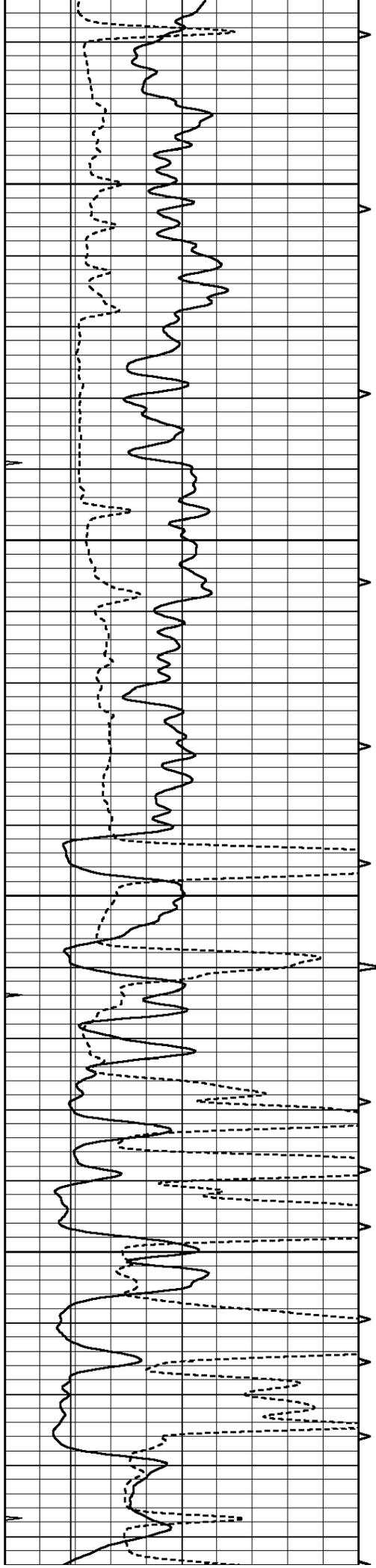
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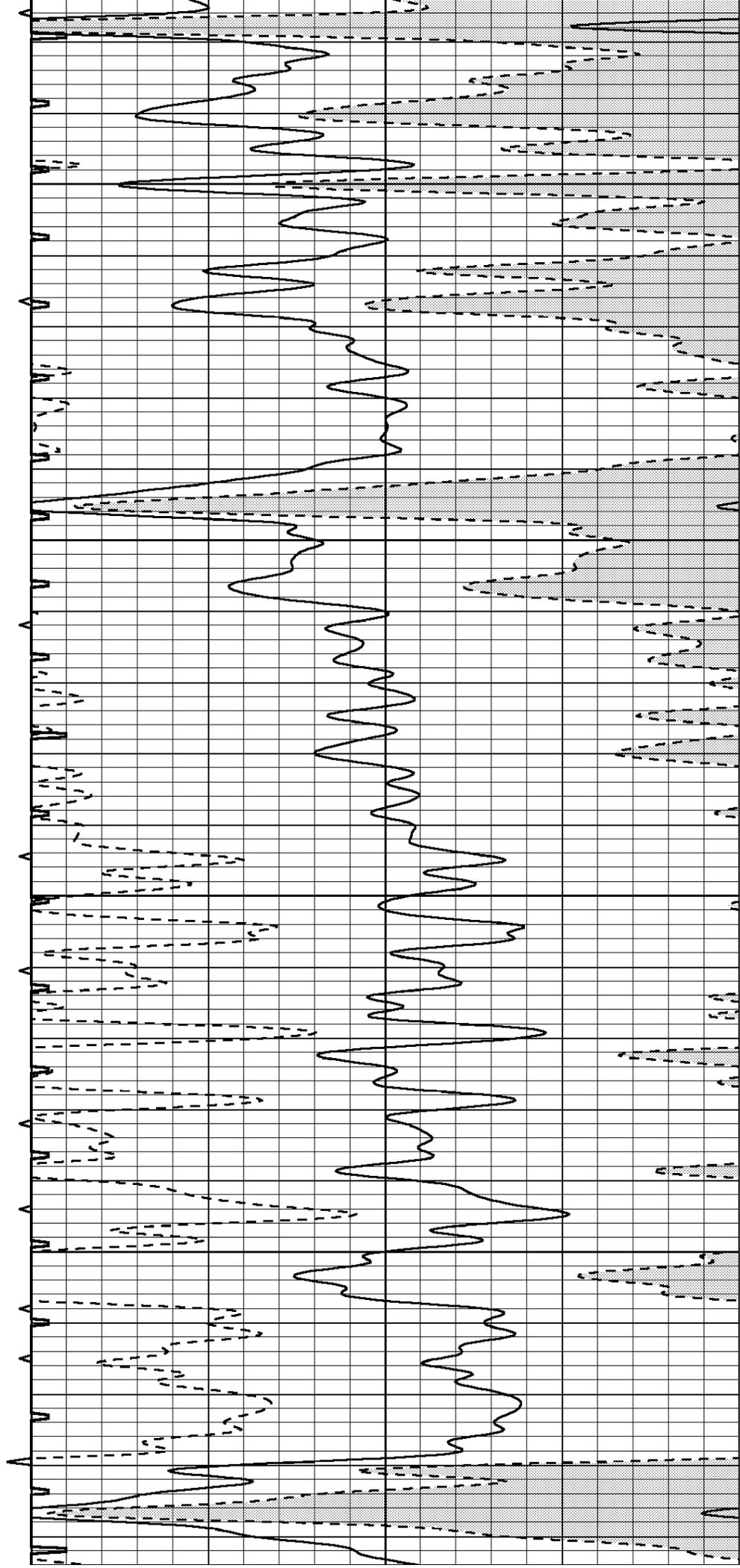


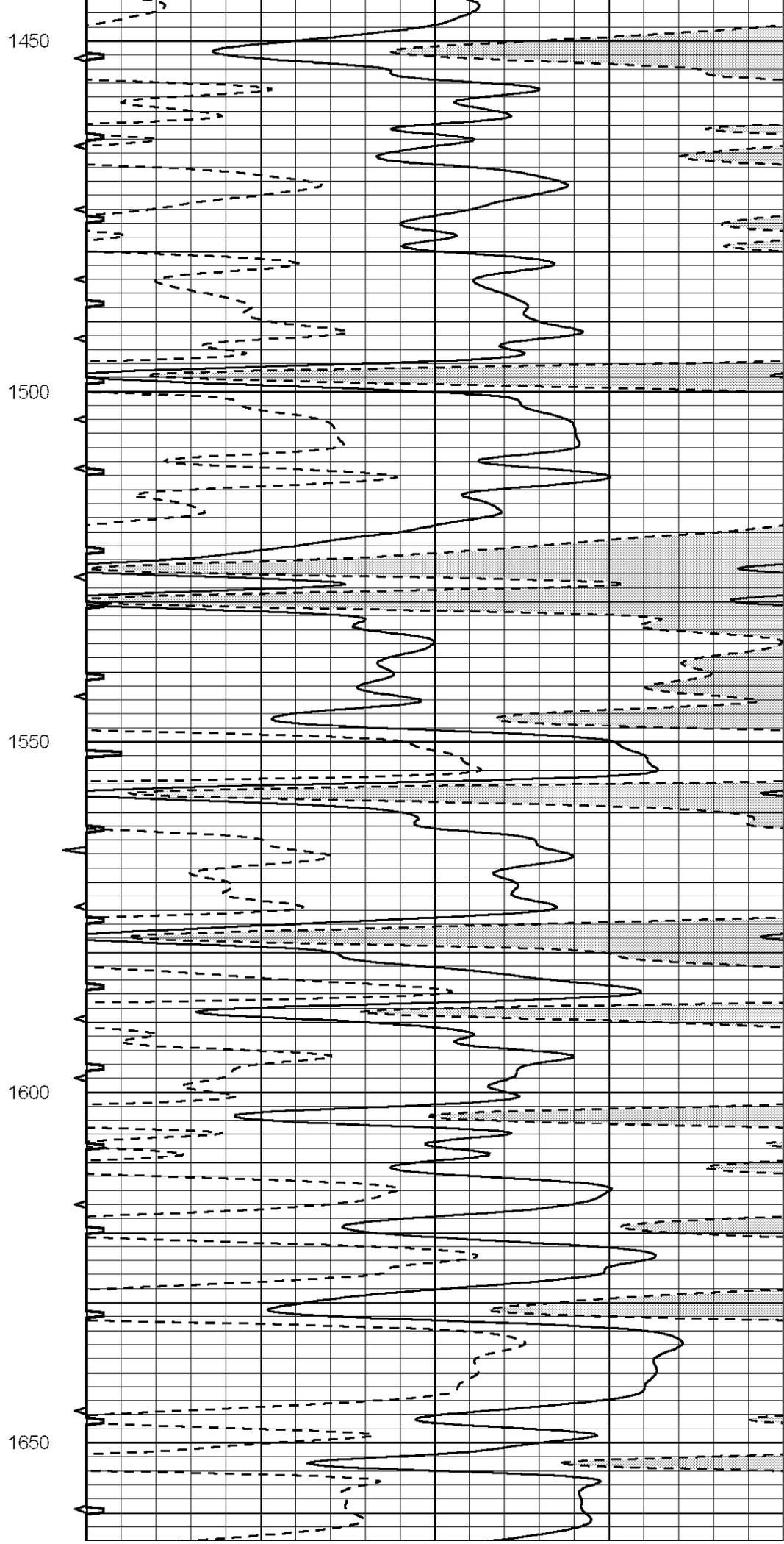
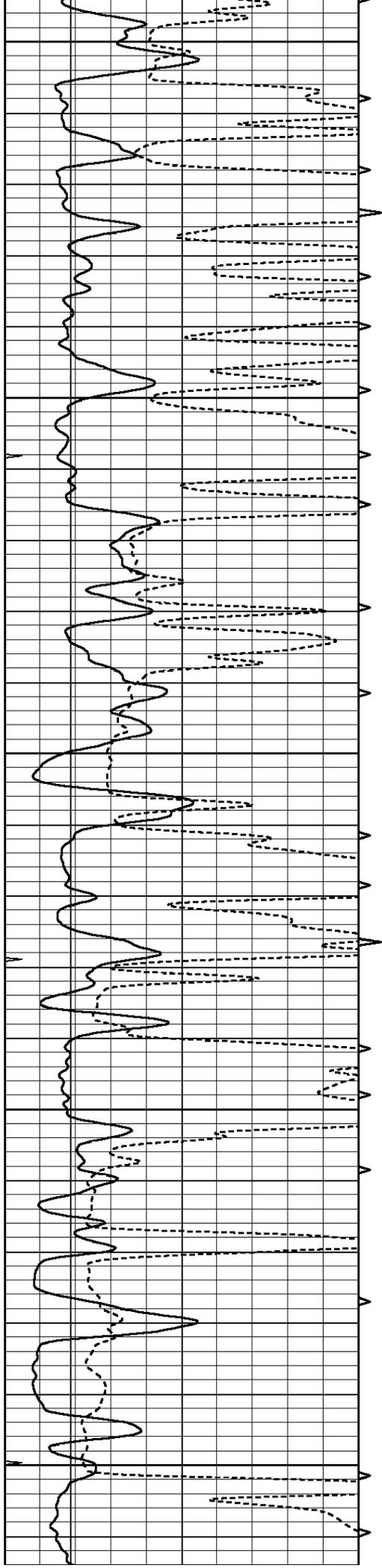
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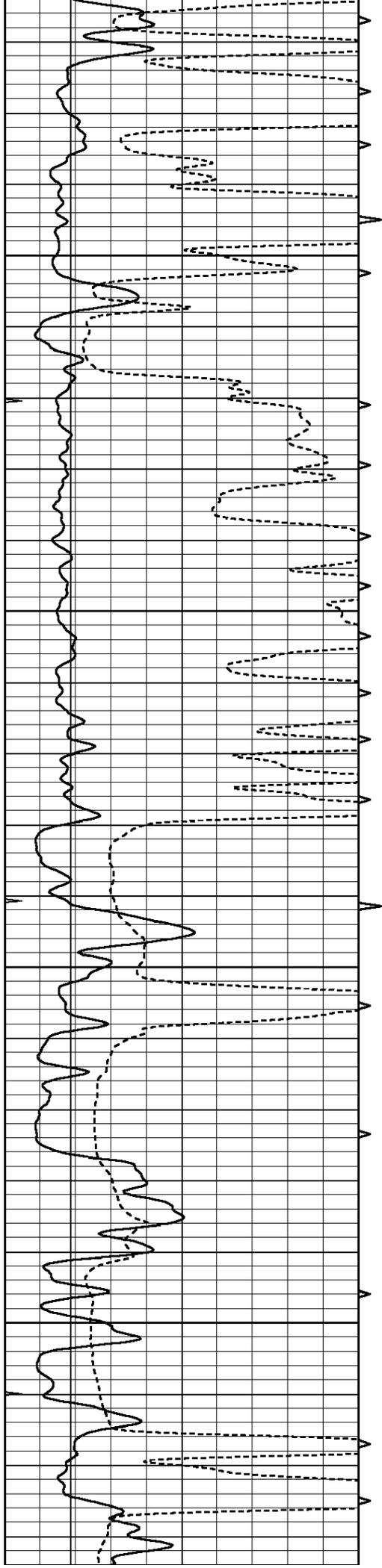
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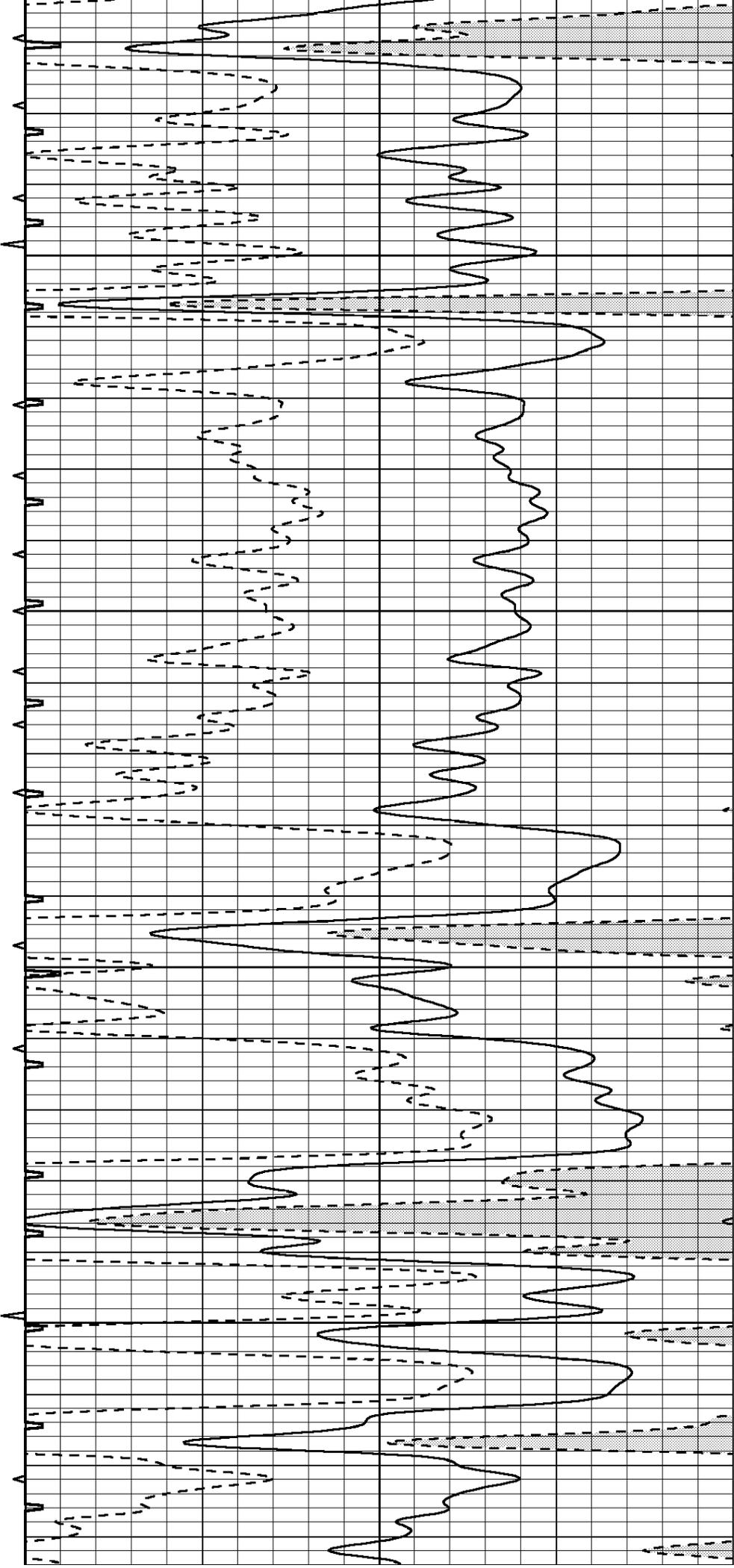


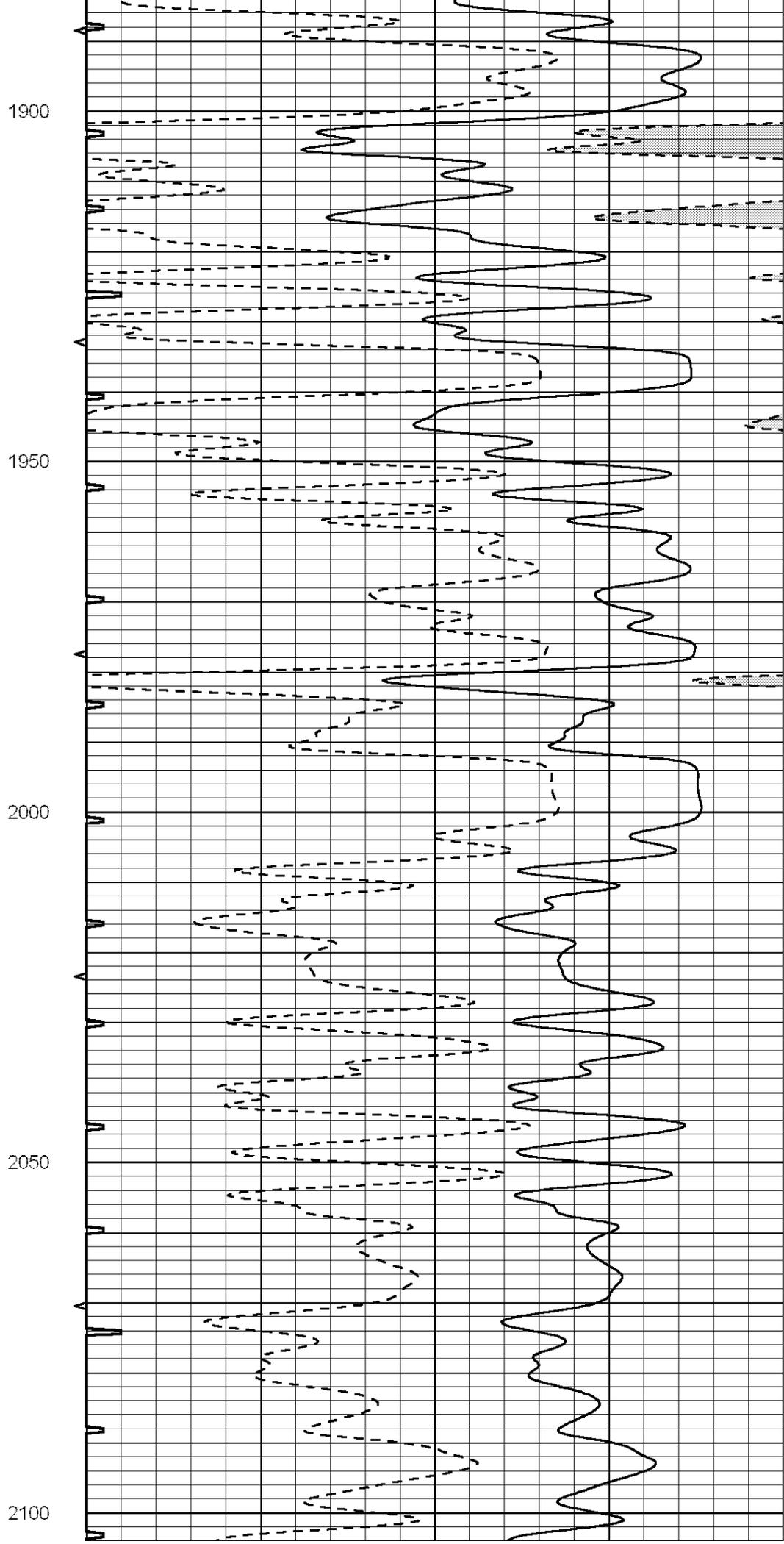
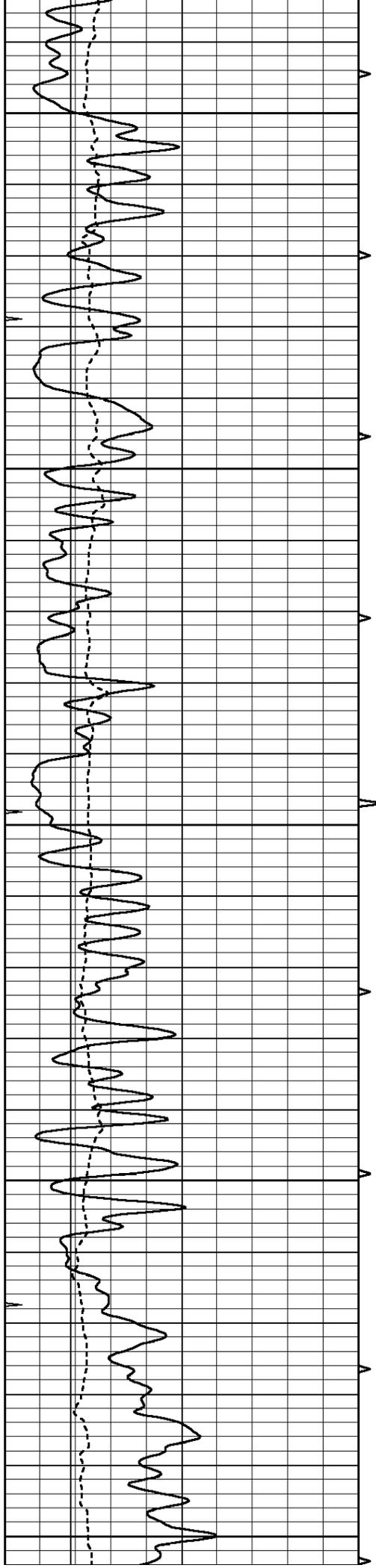
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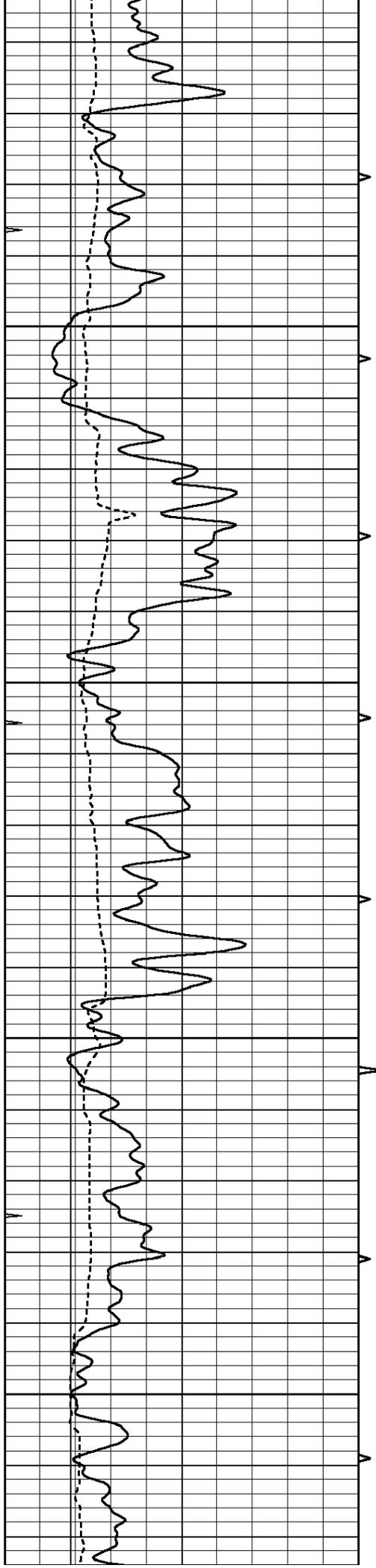
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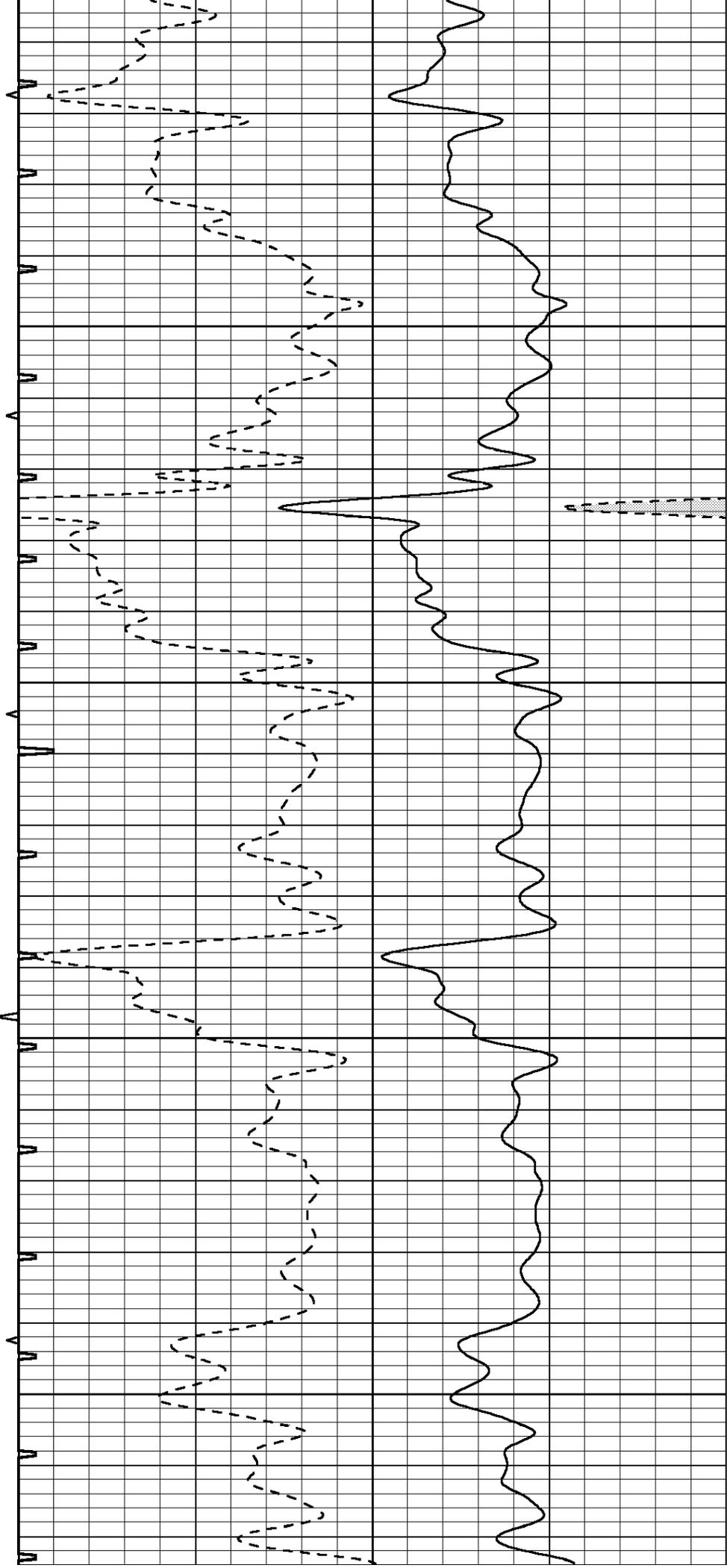


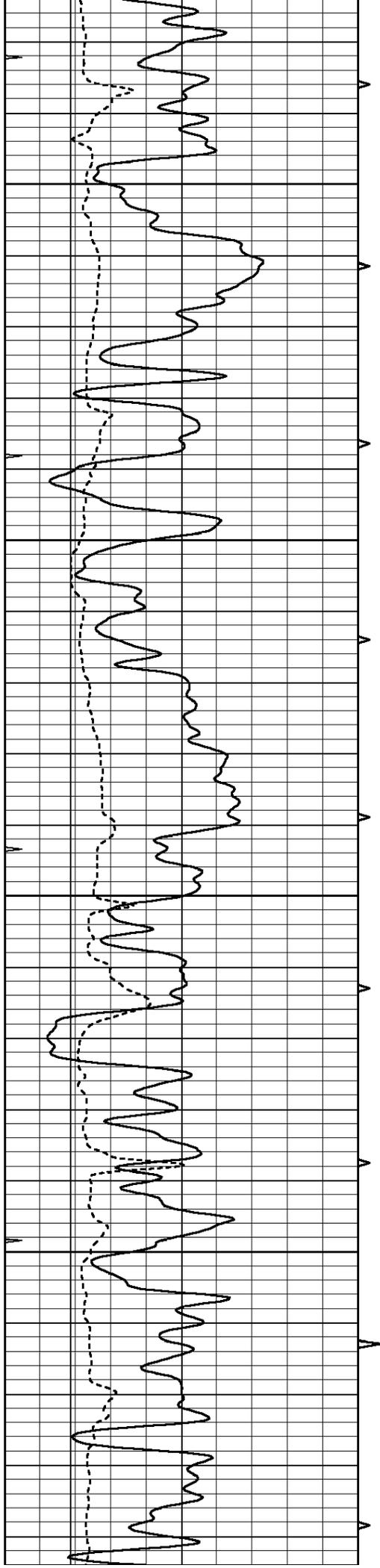
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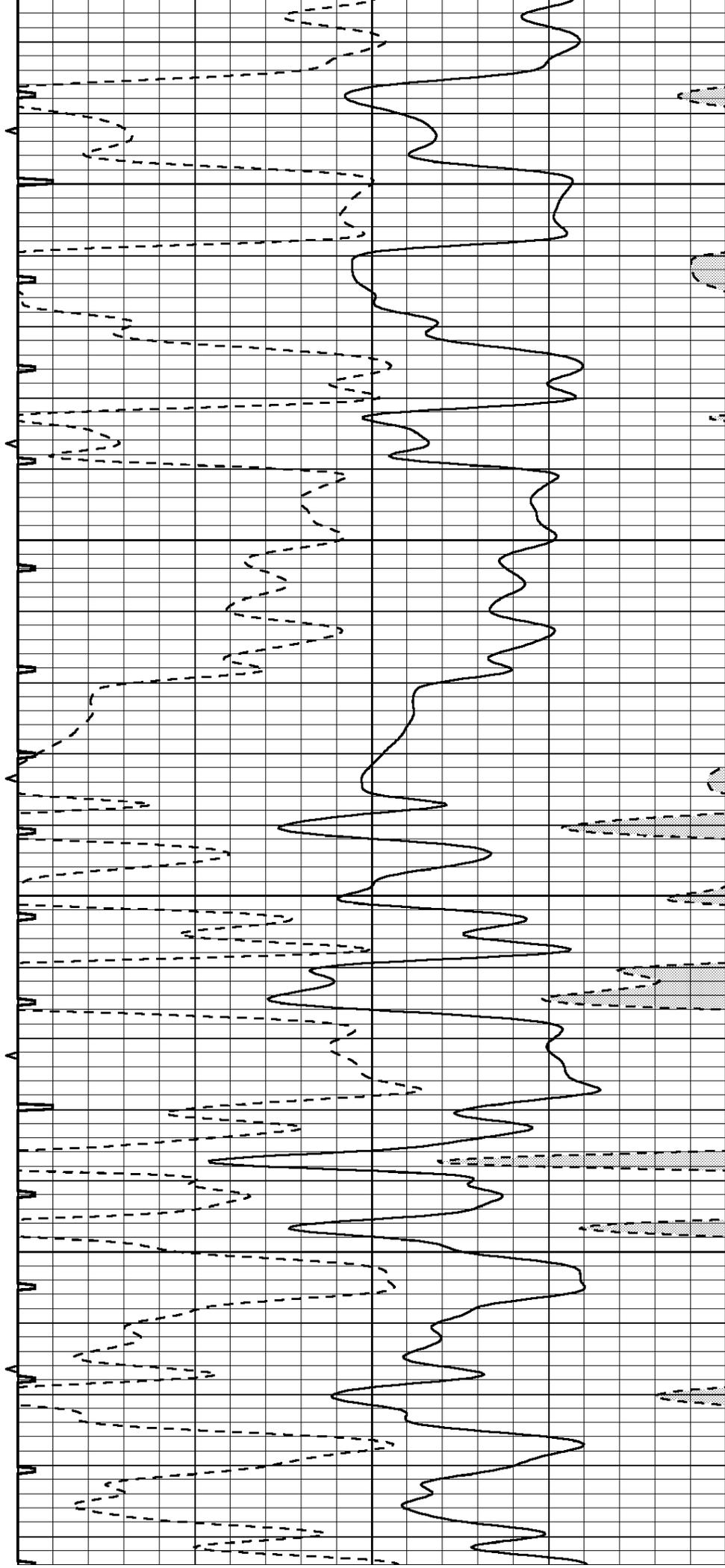


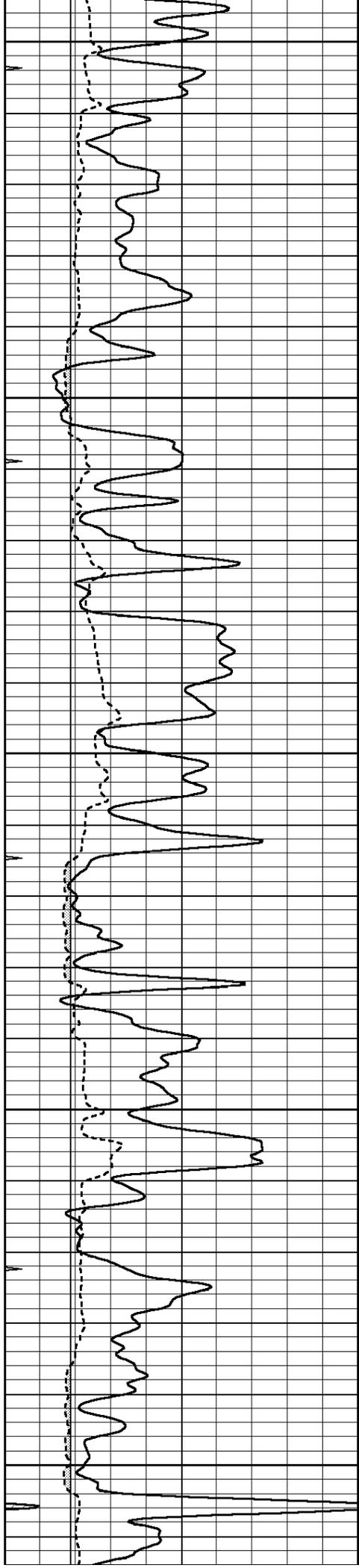
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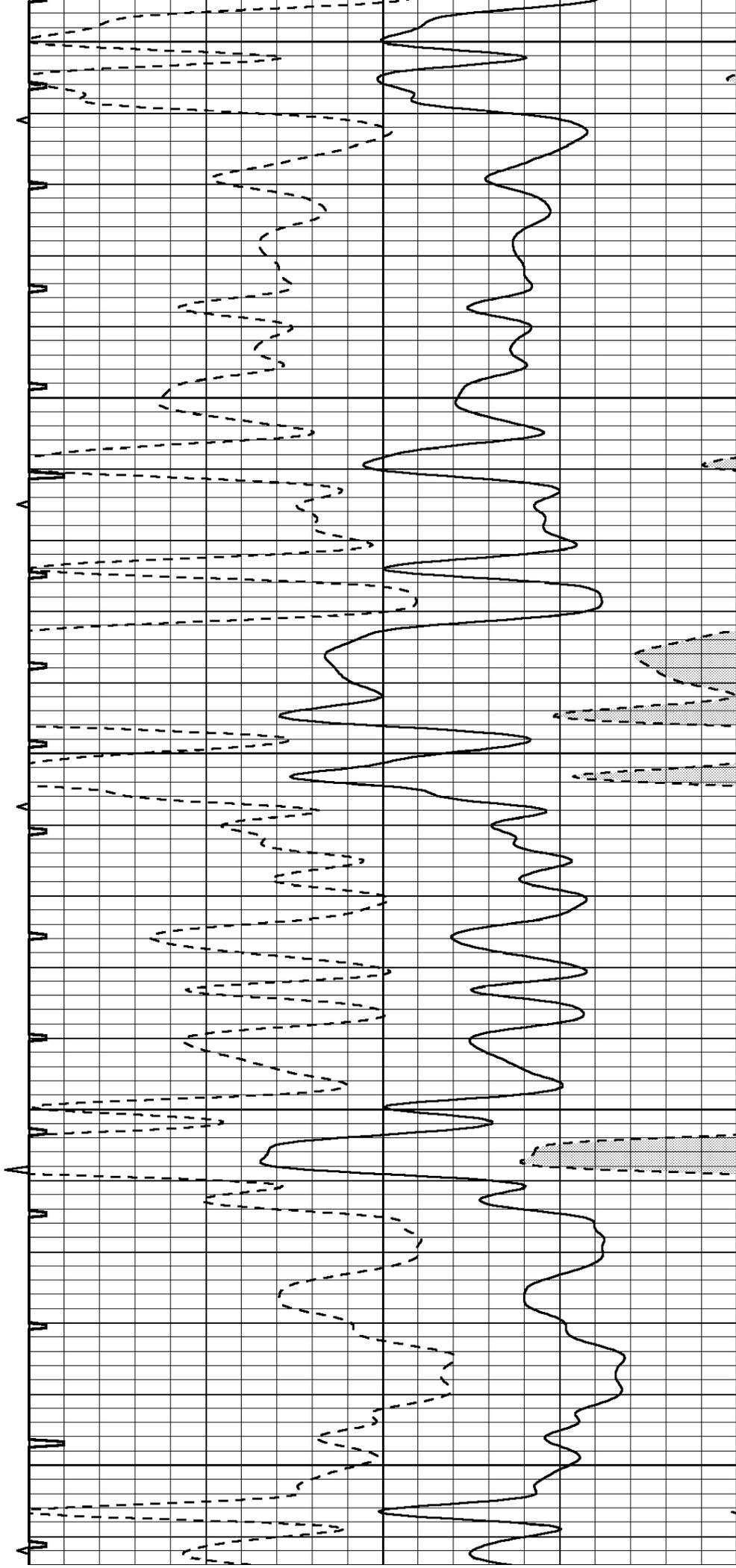
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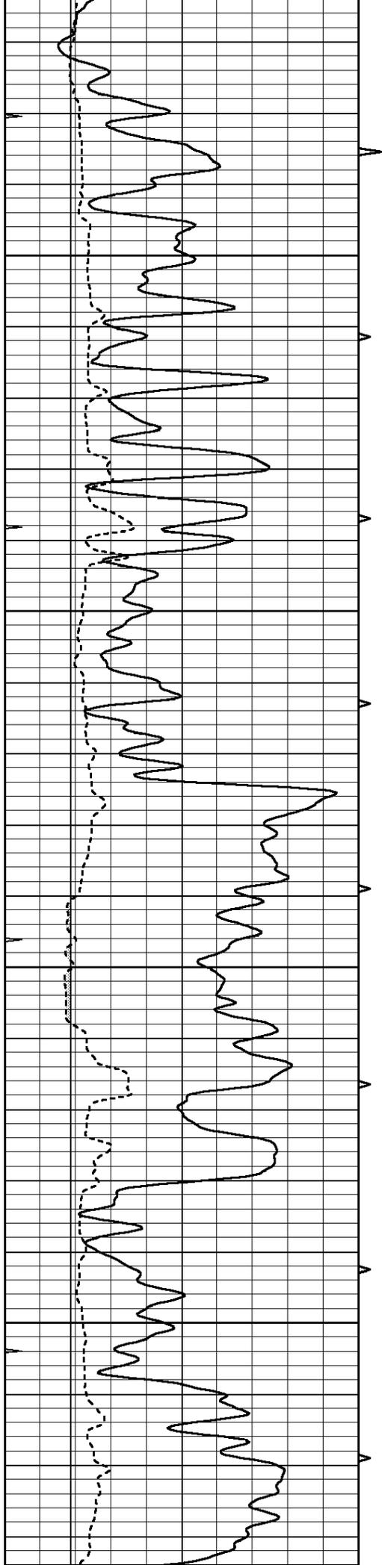
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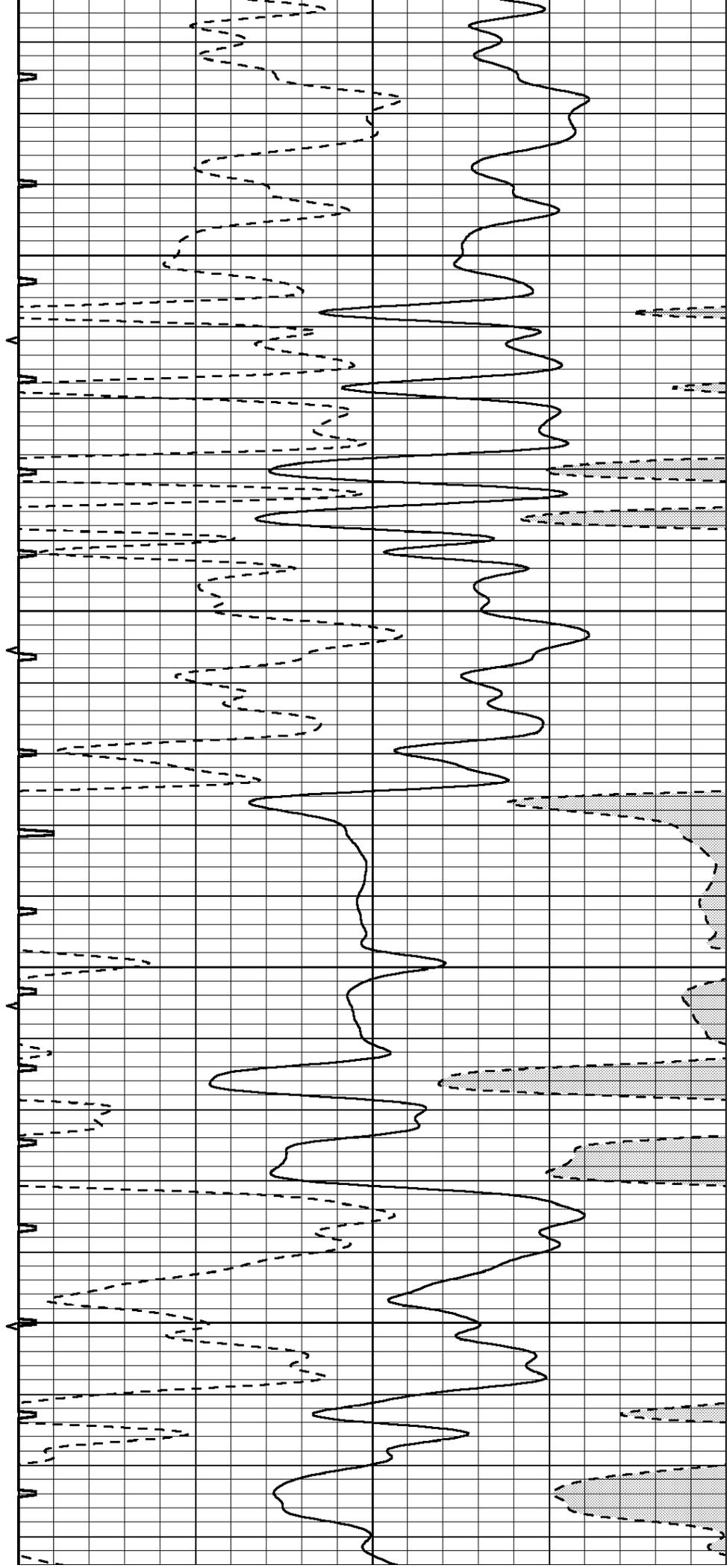


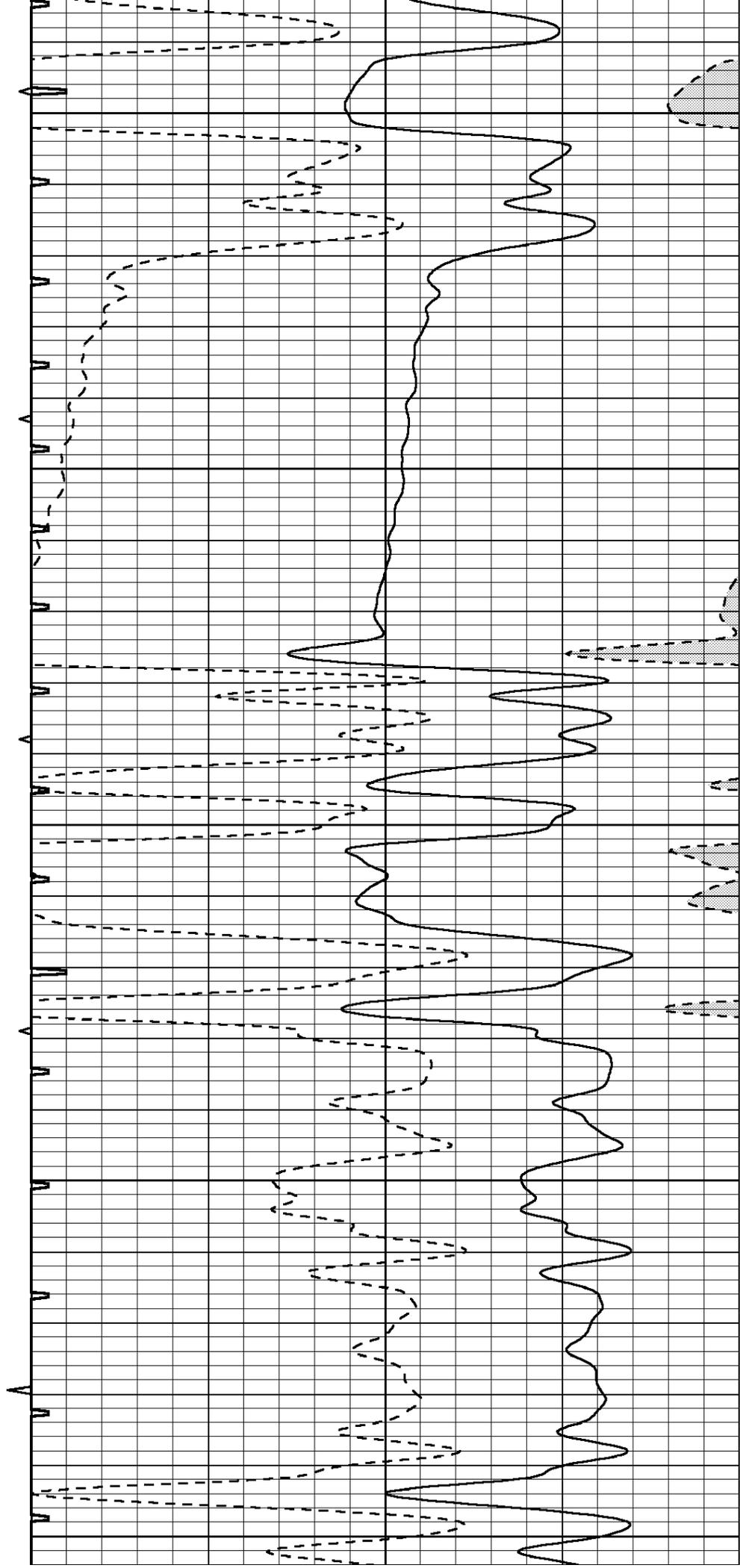
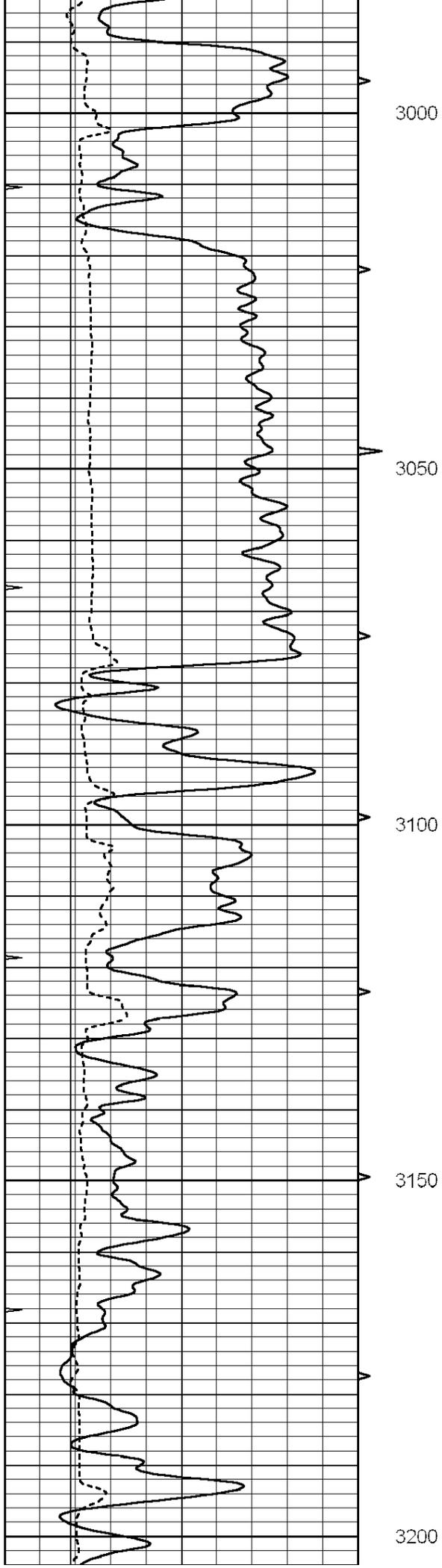
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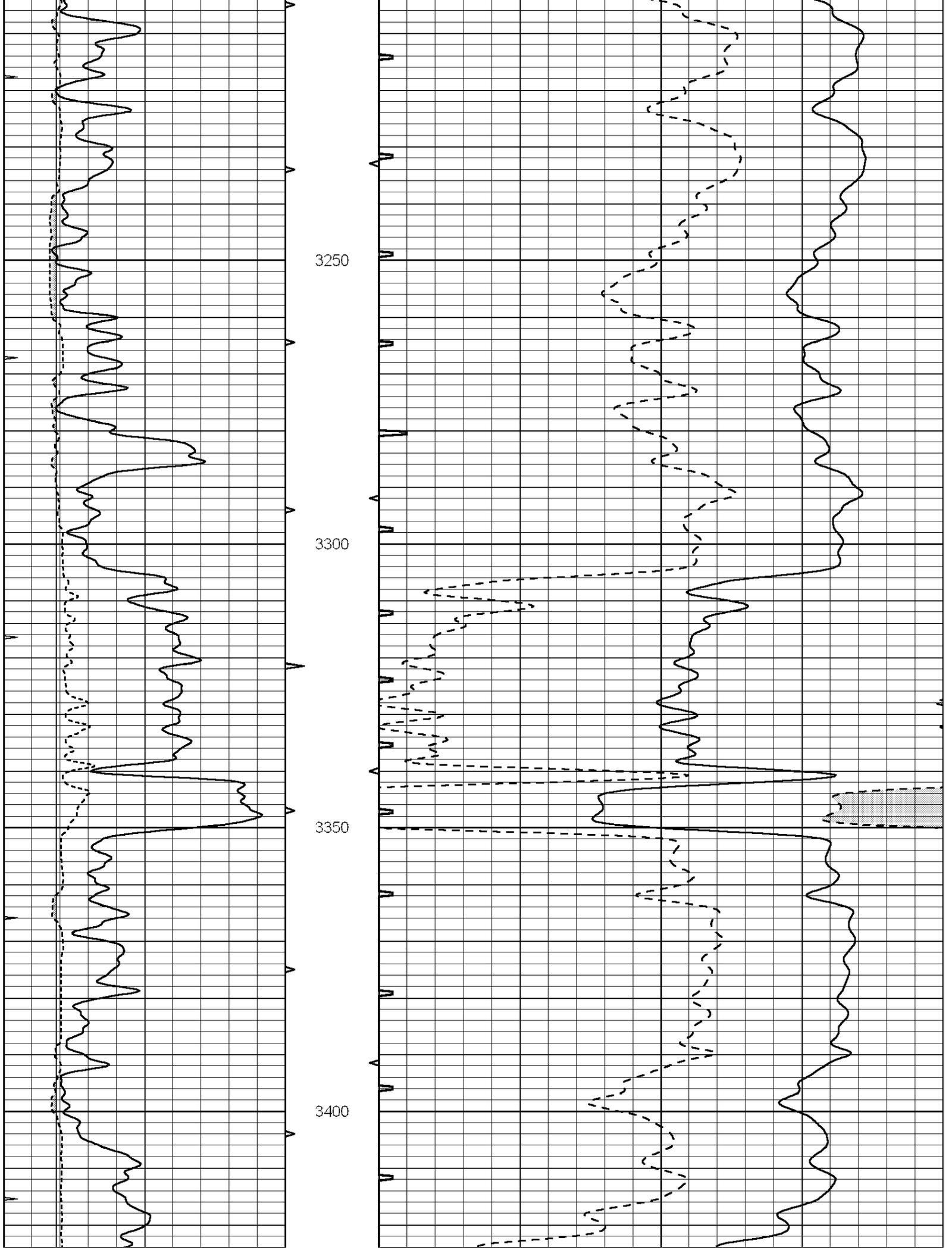
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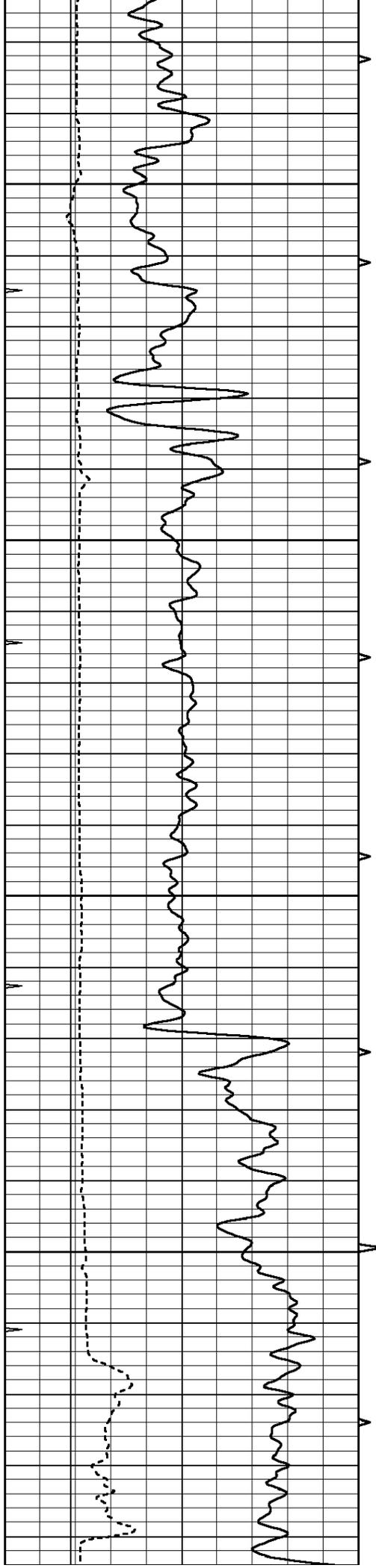
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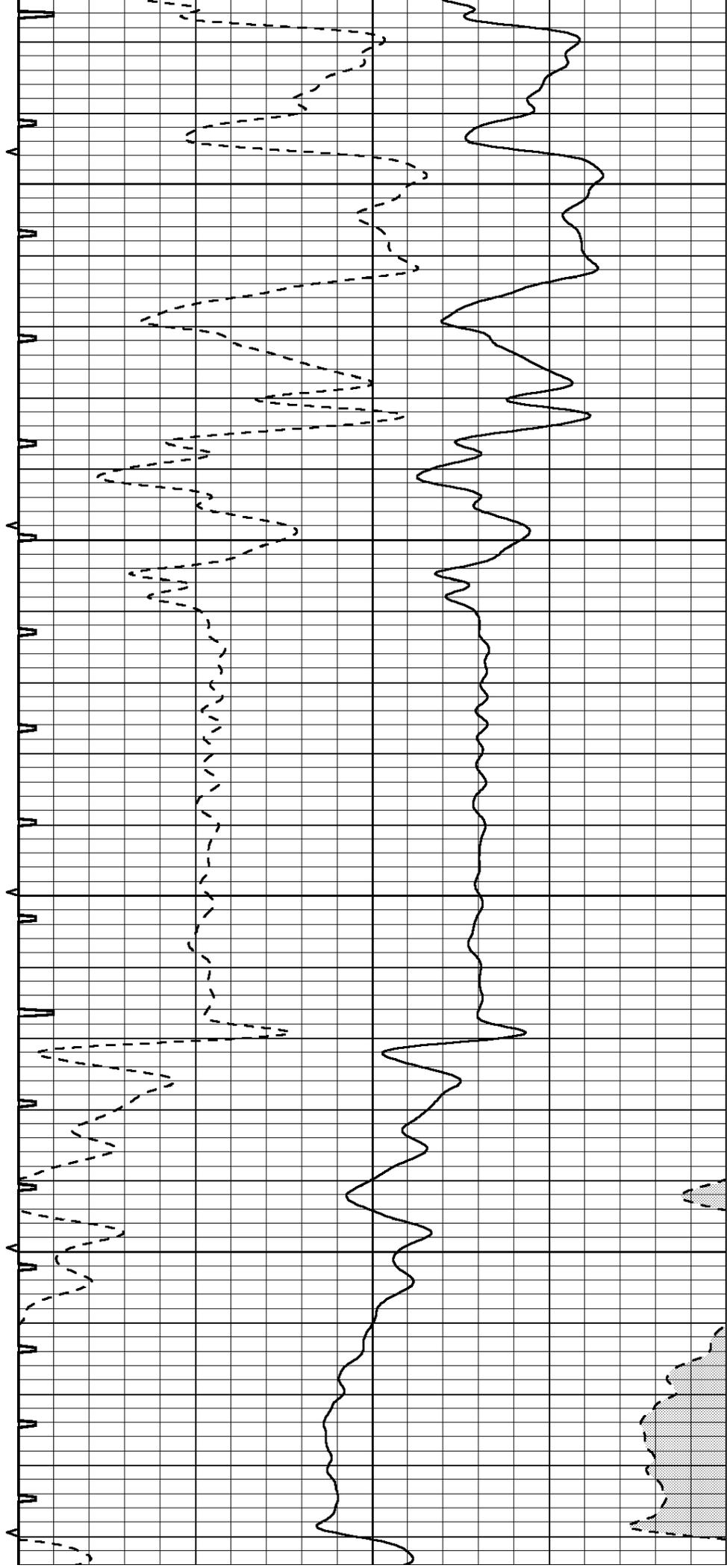


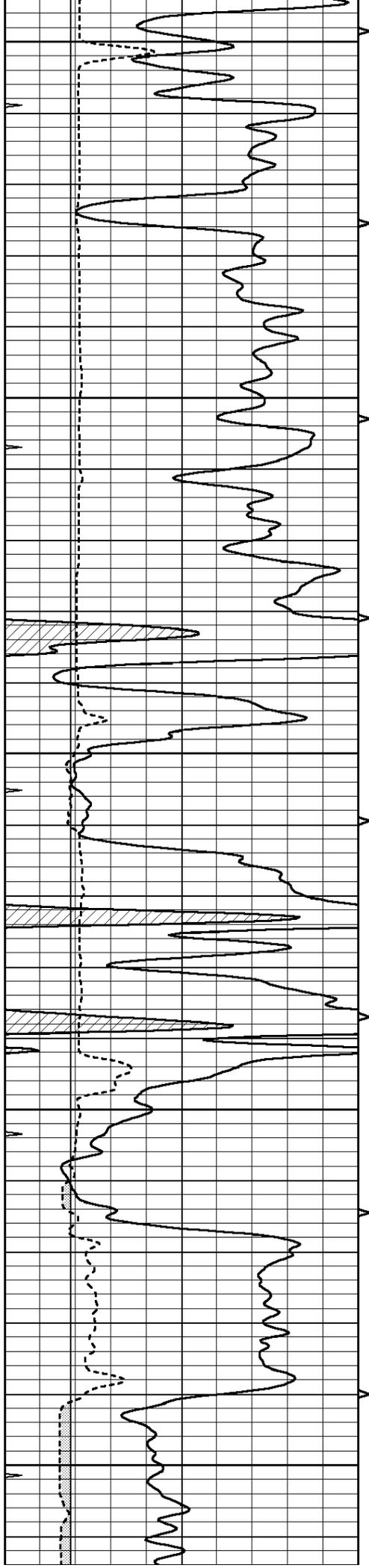
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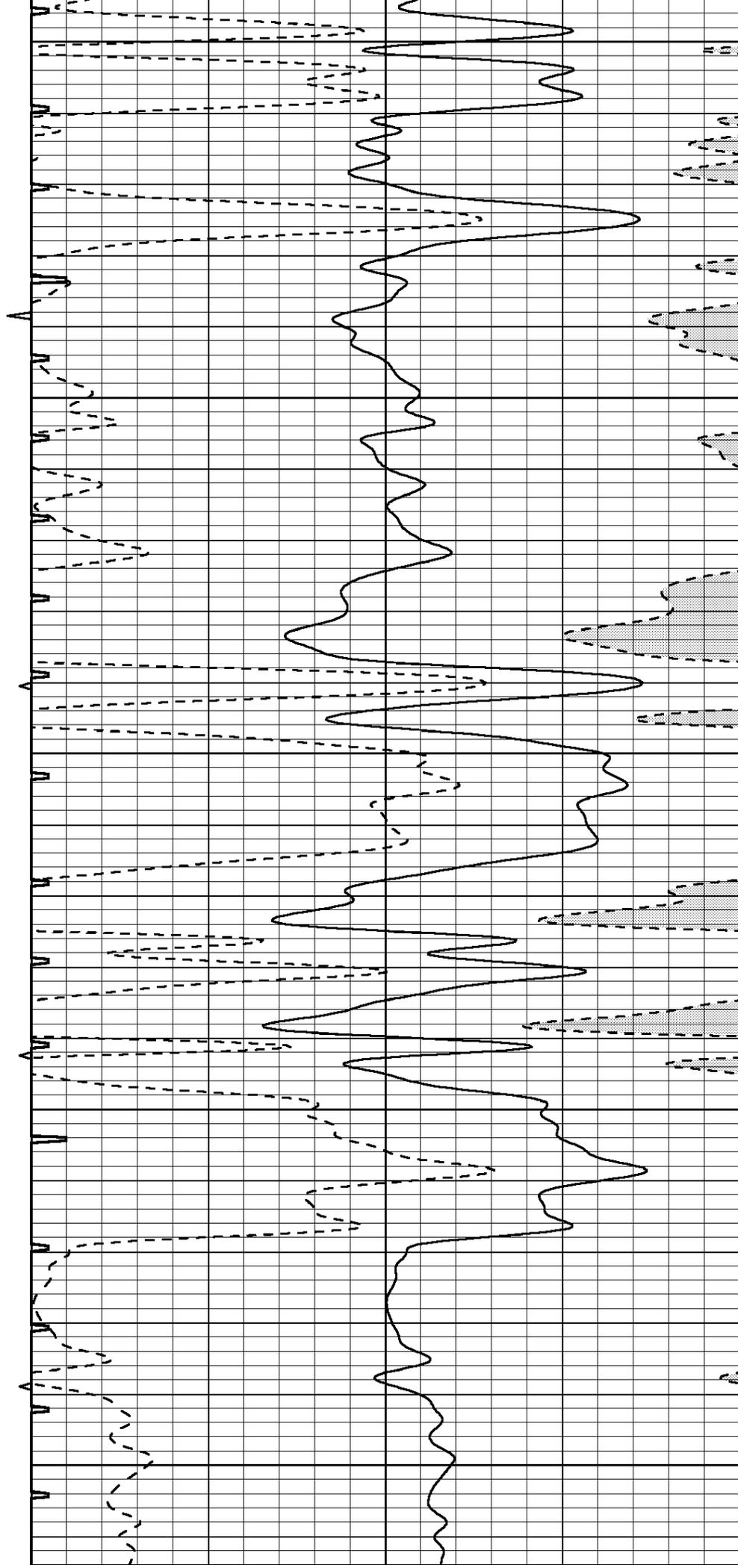
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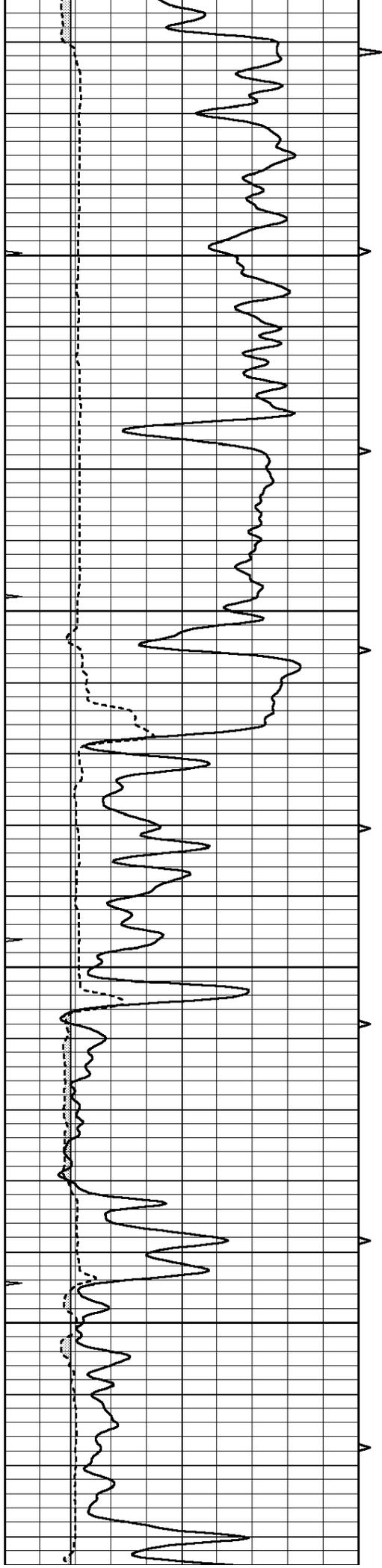
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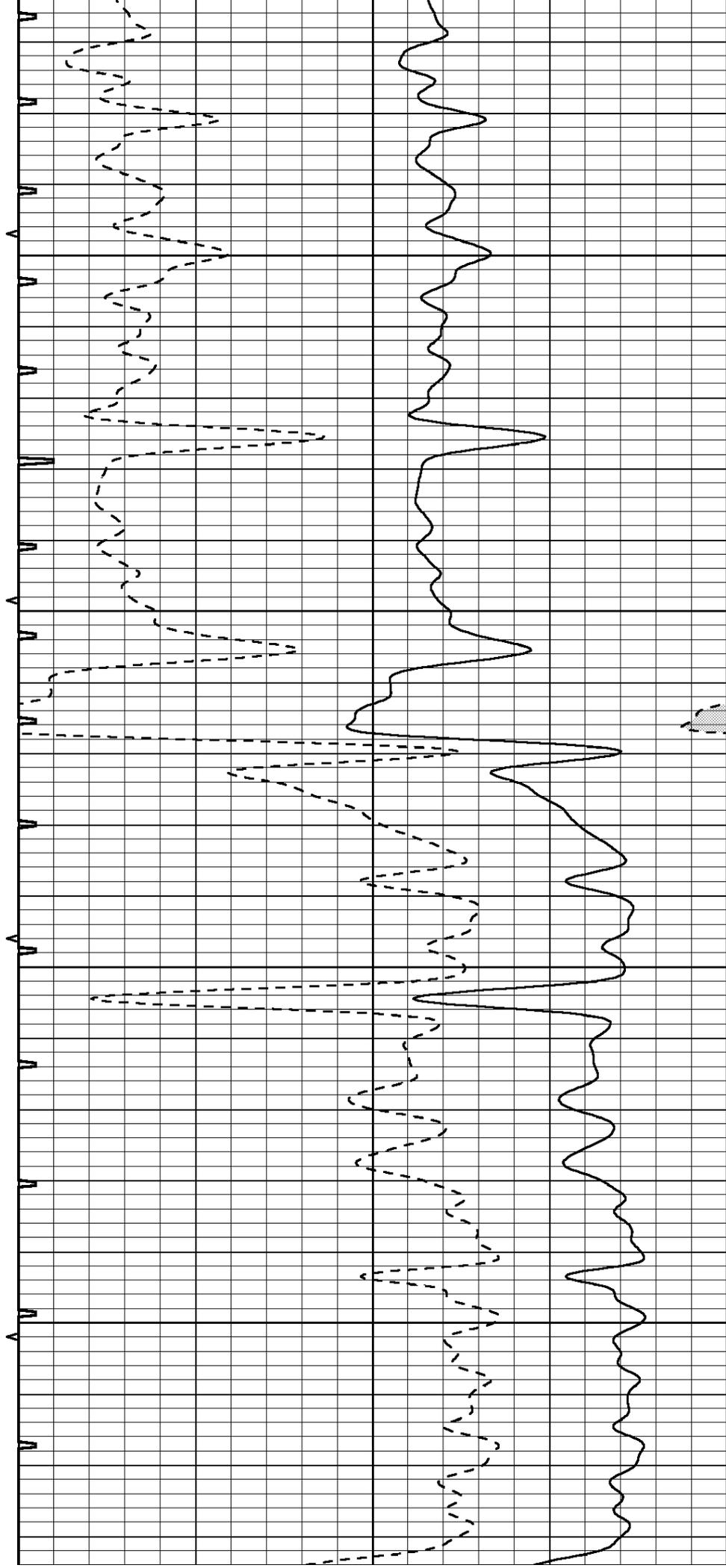


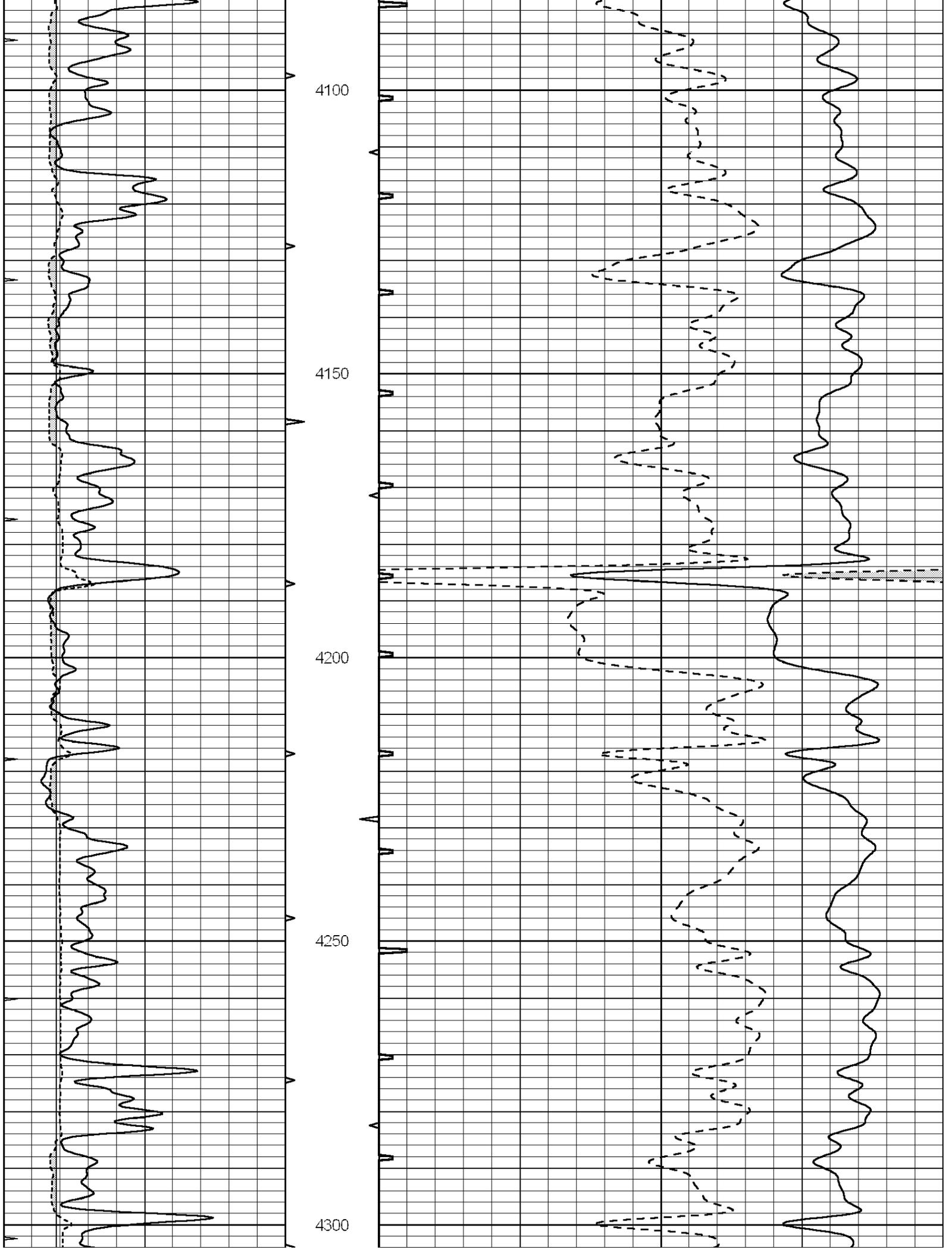
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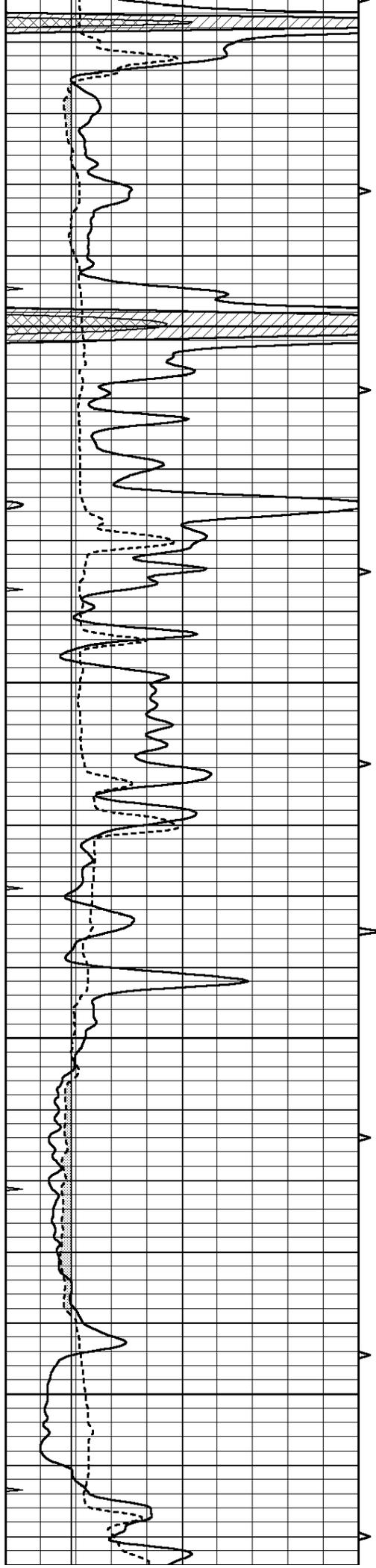
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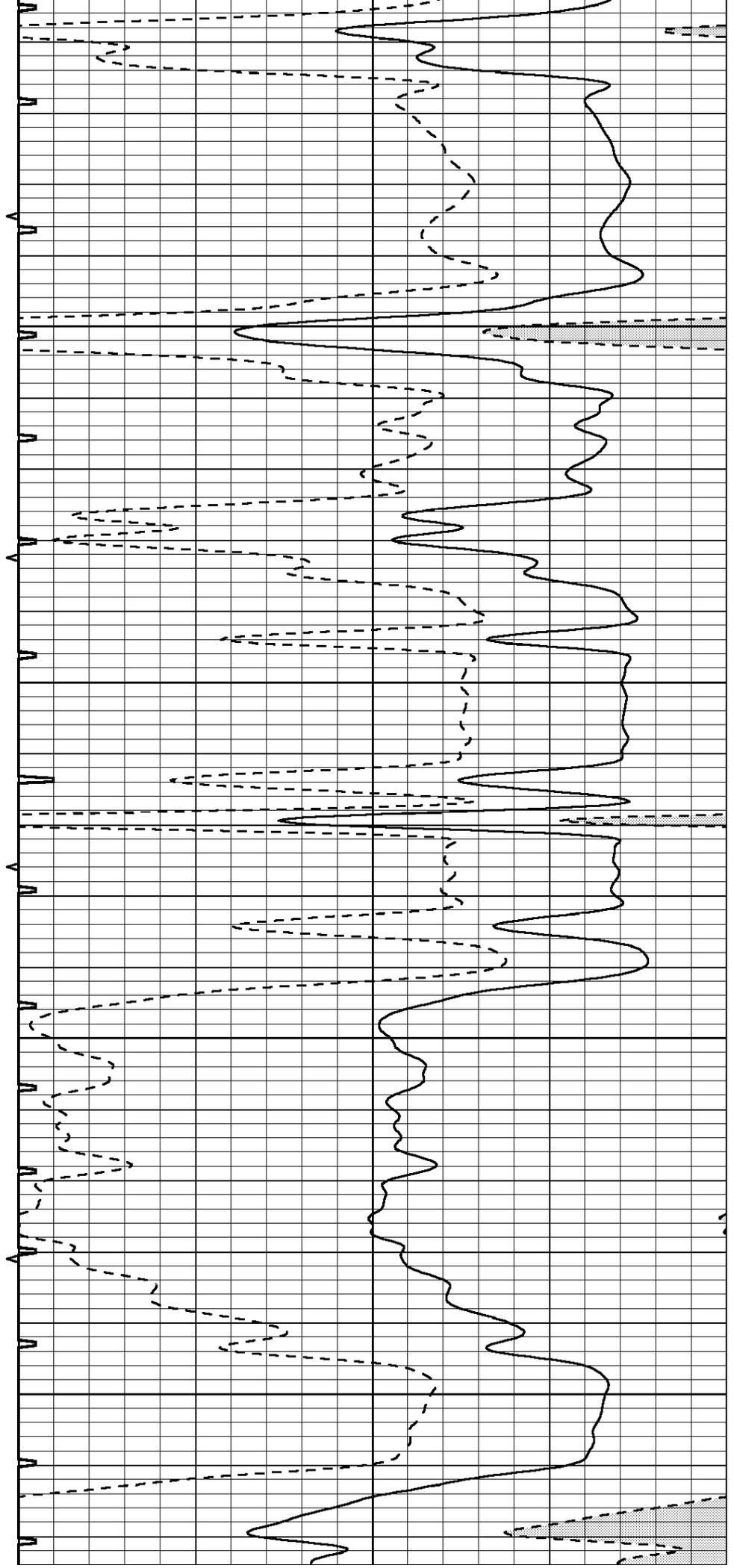


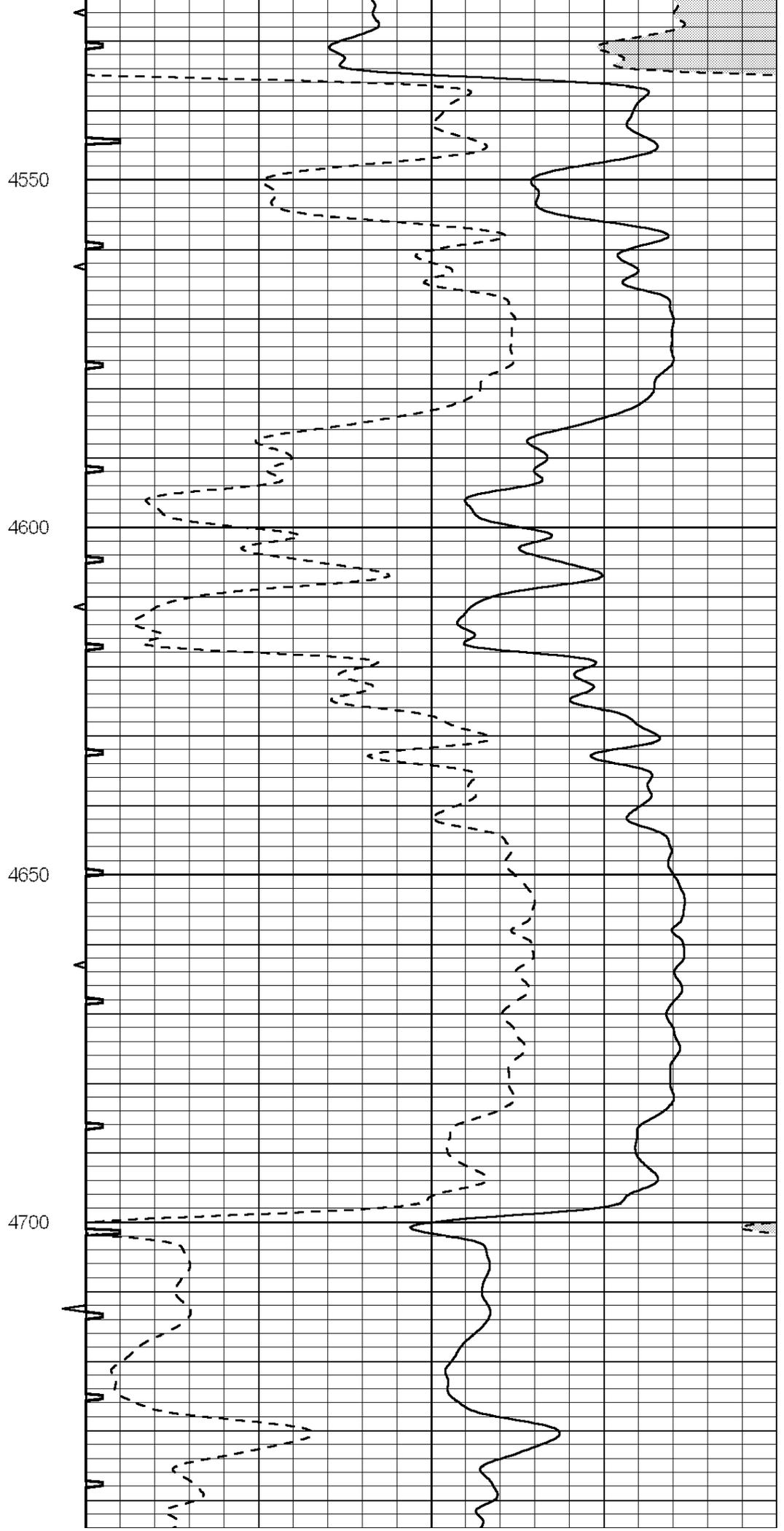
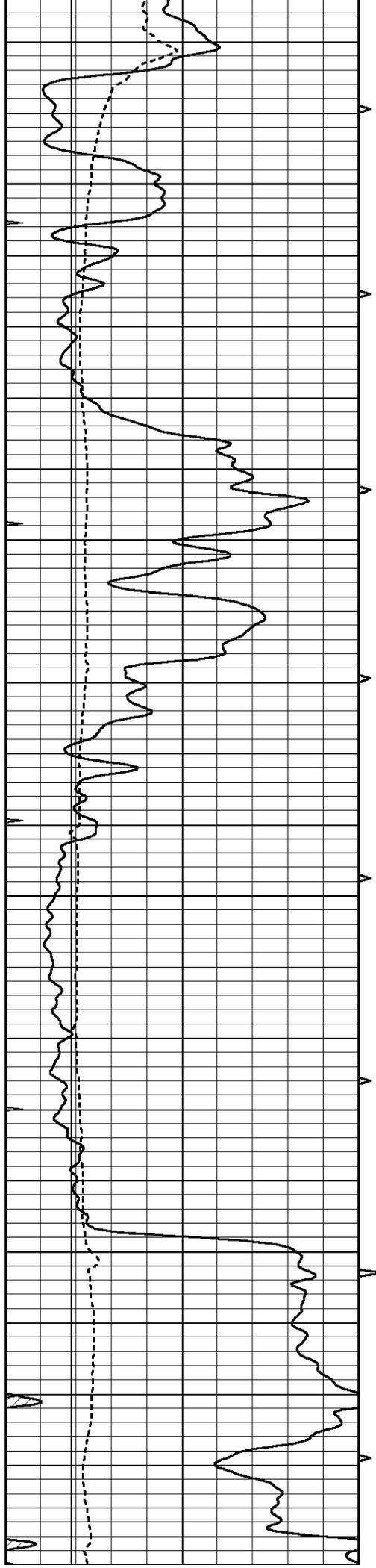
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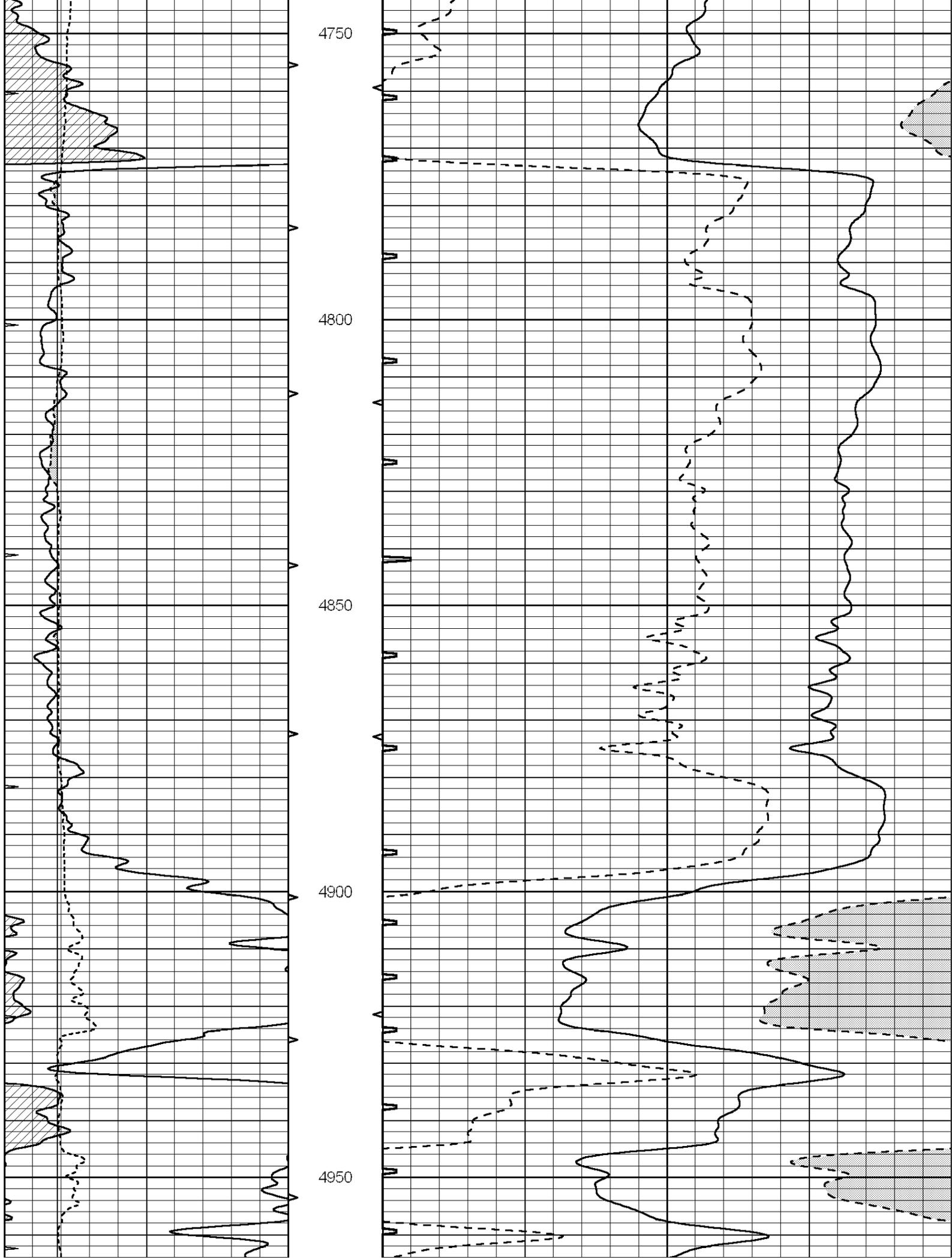
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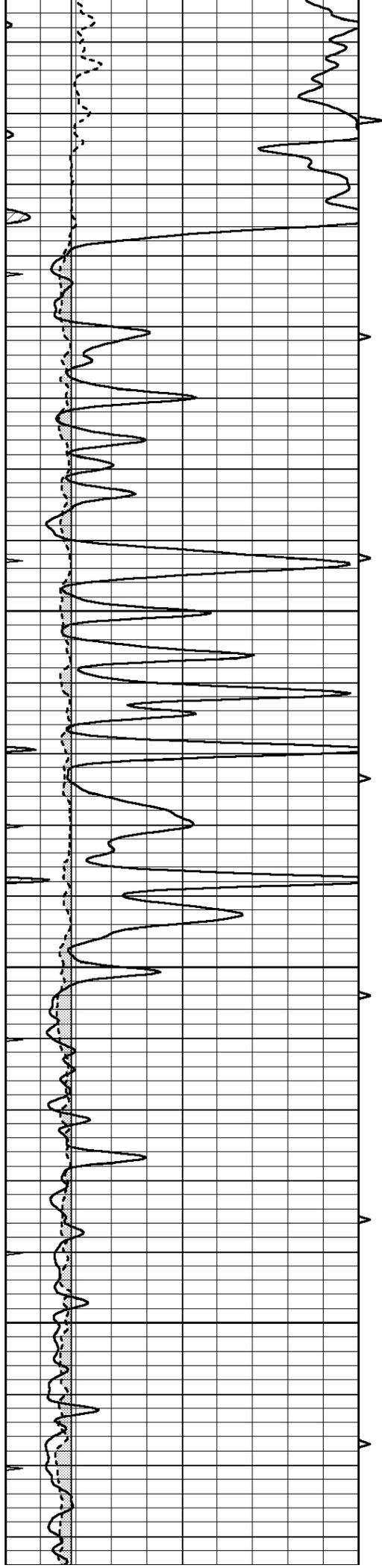
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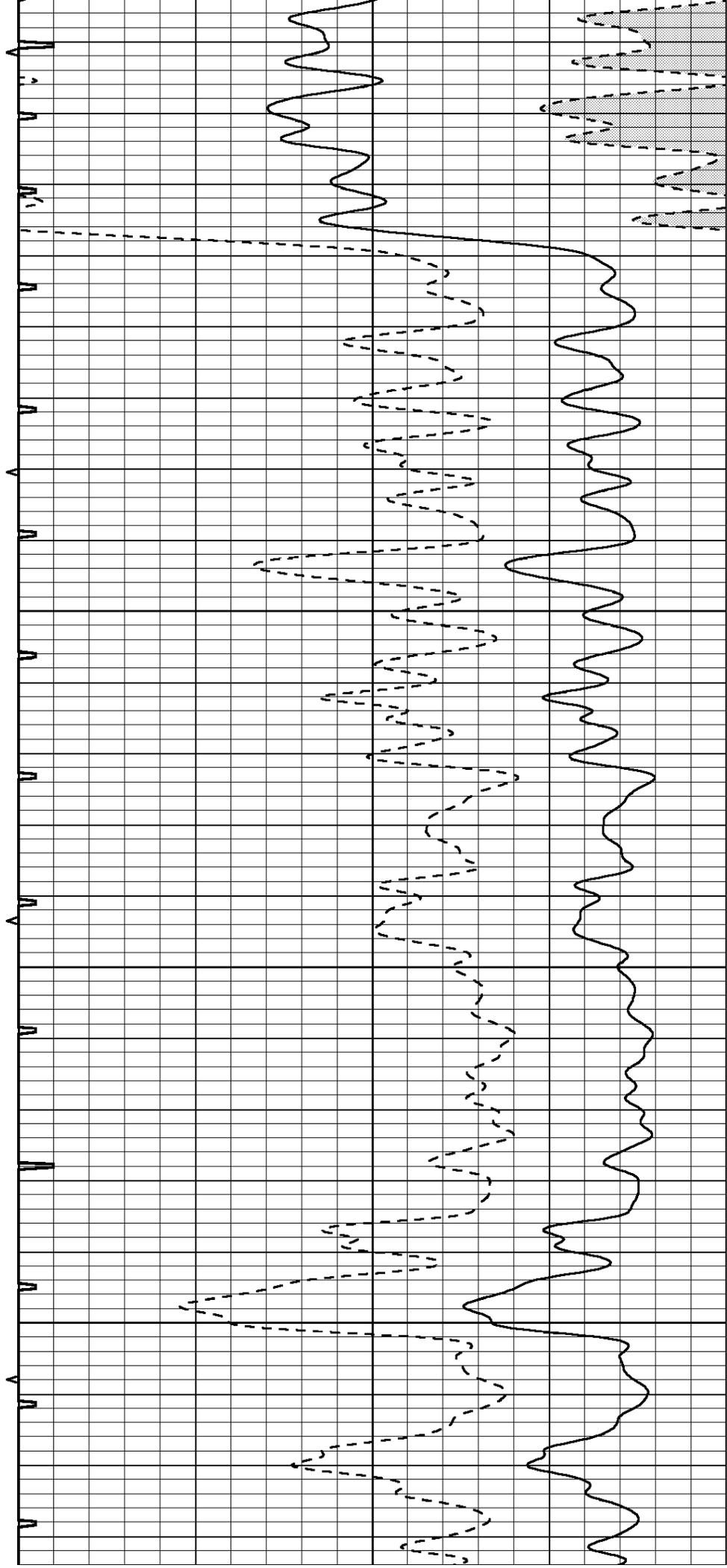


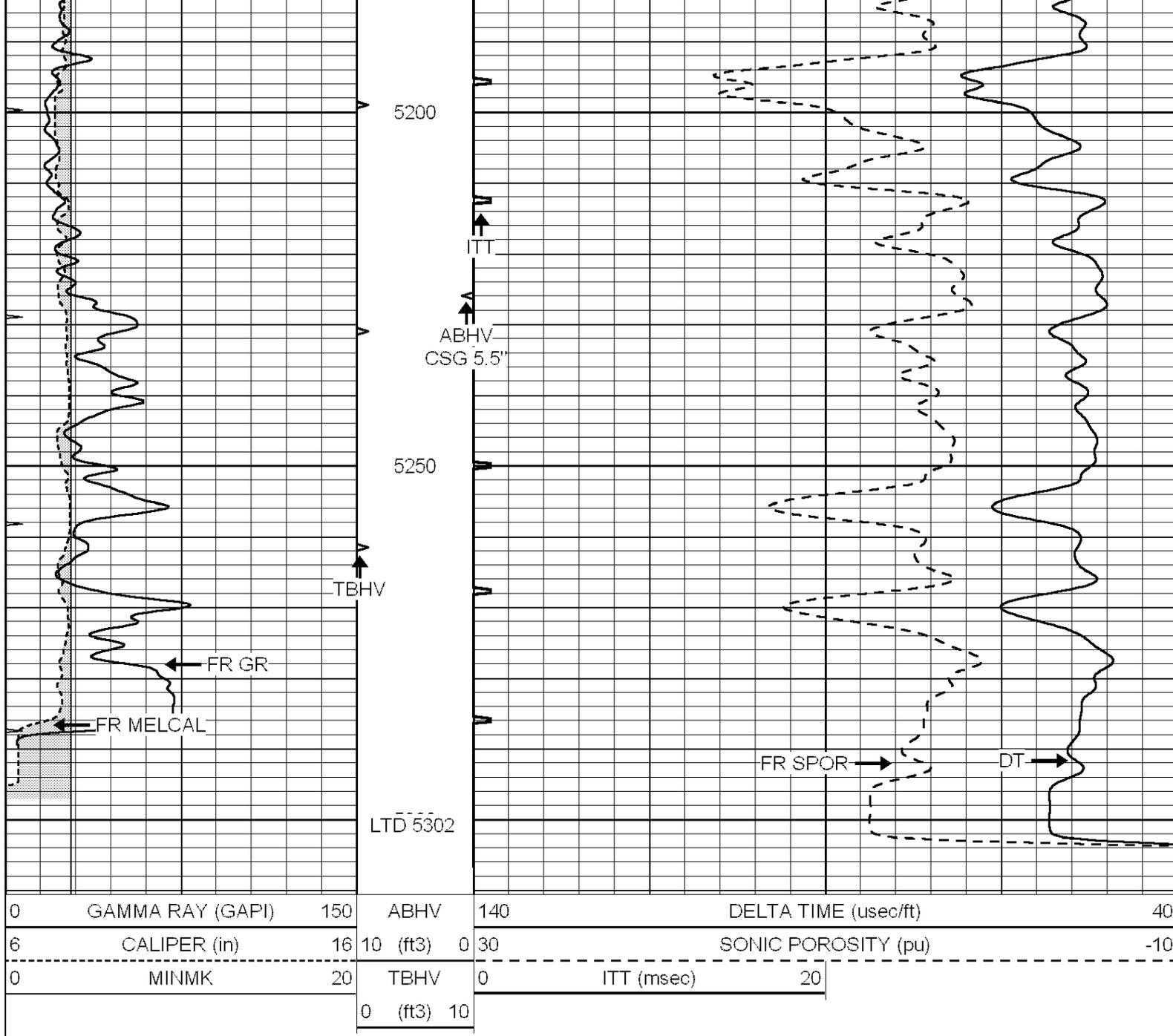
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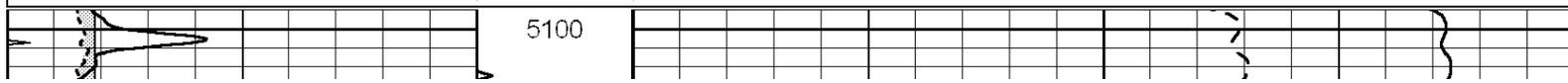


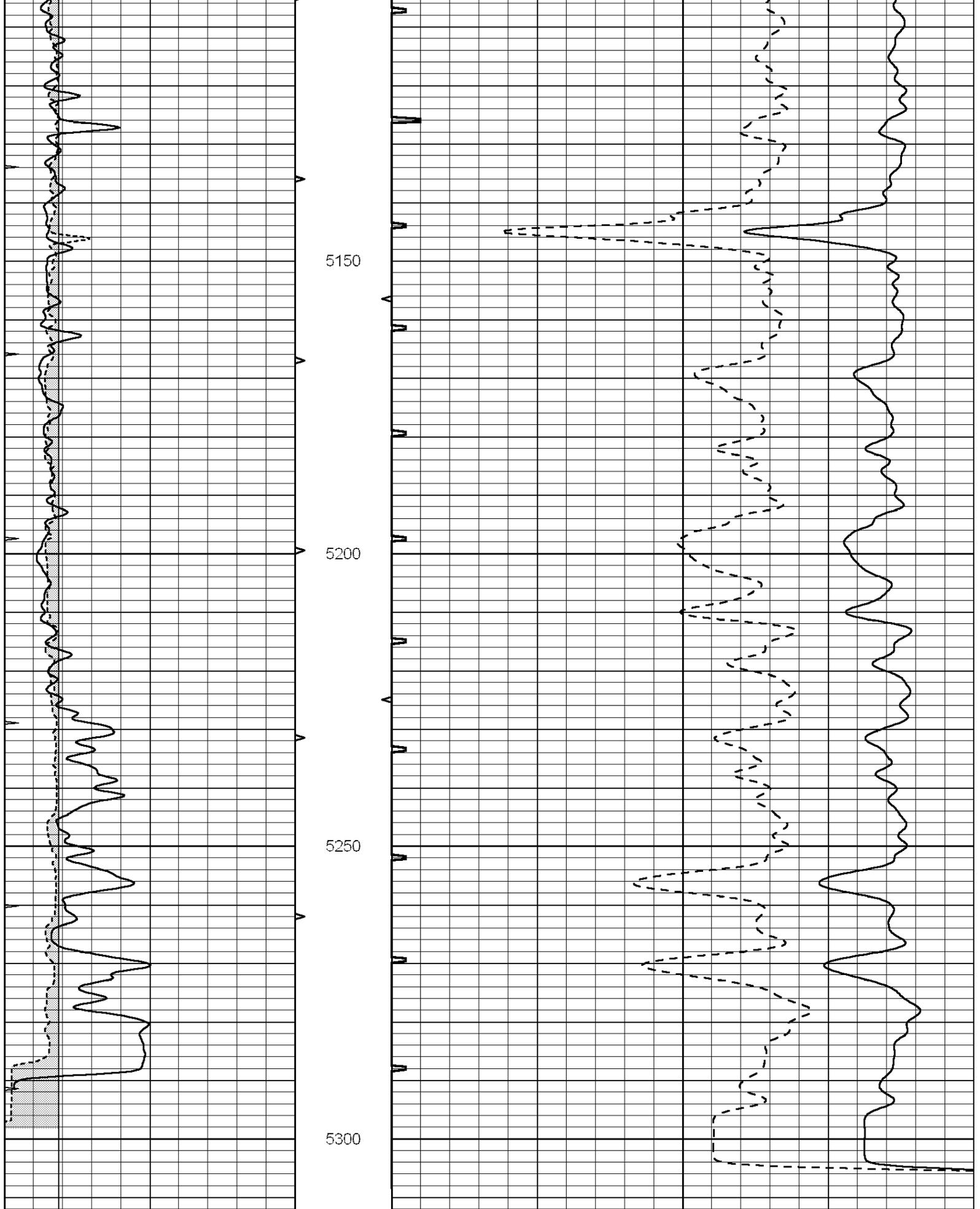


REPEAT SECTION

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 Presentation Format: _slt
 Dataset Creation: Sun Feb 08 14:42:54 2015 by Calc 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			





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