



**COMPLETION
& PRODUCTION
SERVICES CO.**

**SONIC
LOG**

Company MULL DRILLING CO. INC.
Well JOY #1-1
Field WILDCAT
County WICHITA
State KANSAS

Company MULL DRILLING COMPANY, INC.
Well JOY #1-1
Field WILDCAT
County WICHITA
State KANSAS

Location: API # : 15-203-20255-0000
396' FSL 1852' FEL
SW/4 - SE/4
Permanent Datum GROUND LEVEL Elevation 3419
Log Measured From KELLY BUSHING 9' A.G.L.
Drilling Measured From KELLY BUSHING
SEC 1 TWP 16S RGE 38W
Other Services
CDL/CNL/PE
DIL/MEL
Elevation
K.B. 3428
D.F. 3426
G.L. 3419

Date	5/16/14
Run Number	TWO
Depth Driller	5395
Depth Logger	5397
Bottom Logged Interval	5387
Top Log Interval	200
Casing Driller	8 5/8"@219'
Casing Logger	219'
Bit Size	7 7/8"
Type Fluid in Hole	CHEMICAL MUD
Density / Viscosity	9.1/52
pH / Fluid Loss	9.0/10.0
Source of Sample	FLOWLINE
Rim @ Meas. Temp	.50@82F
Rmf @ Meas. Temp	.38@82F
Rmc @ Meas. Temp	.60@82F
Source of Rmf / Rmc	MEASUREMENT
Rim @ BHT	.32@129F
Time Circulation Stopped	2 HOURS
Time Logger on Bottom	
Maximum Recorded Temperature	129F
Equipment Number	4854
Location	HAYS, KANSAS
Recorded By	JEFF GRONEMEG
Witnessed By	STEVE REED

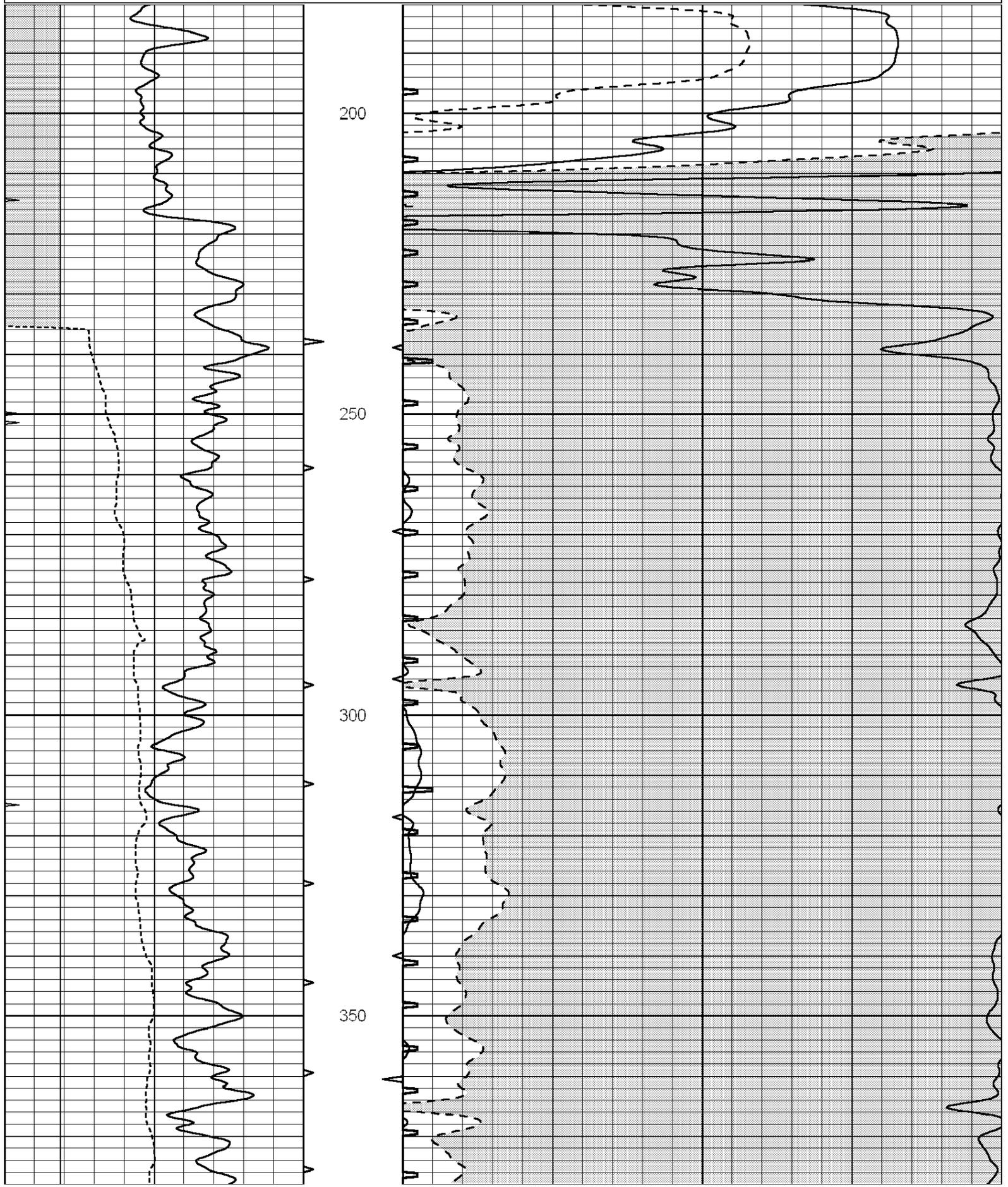
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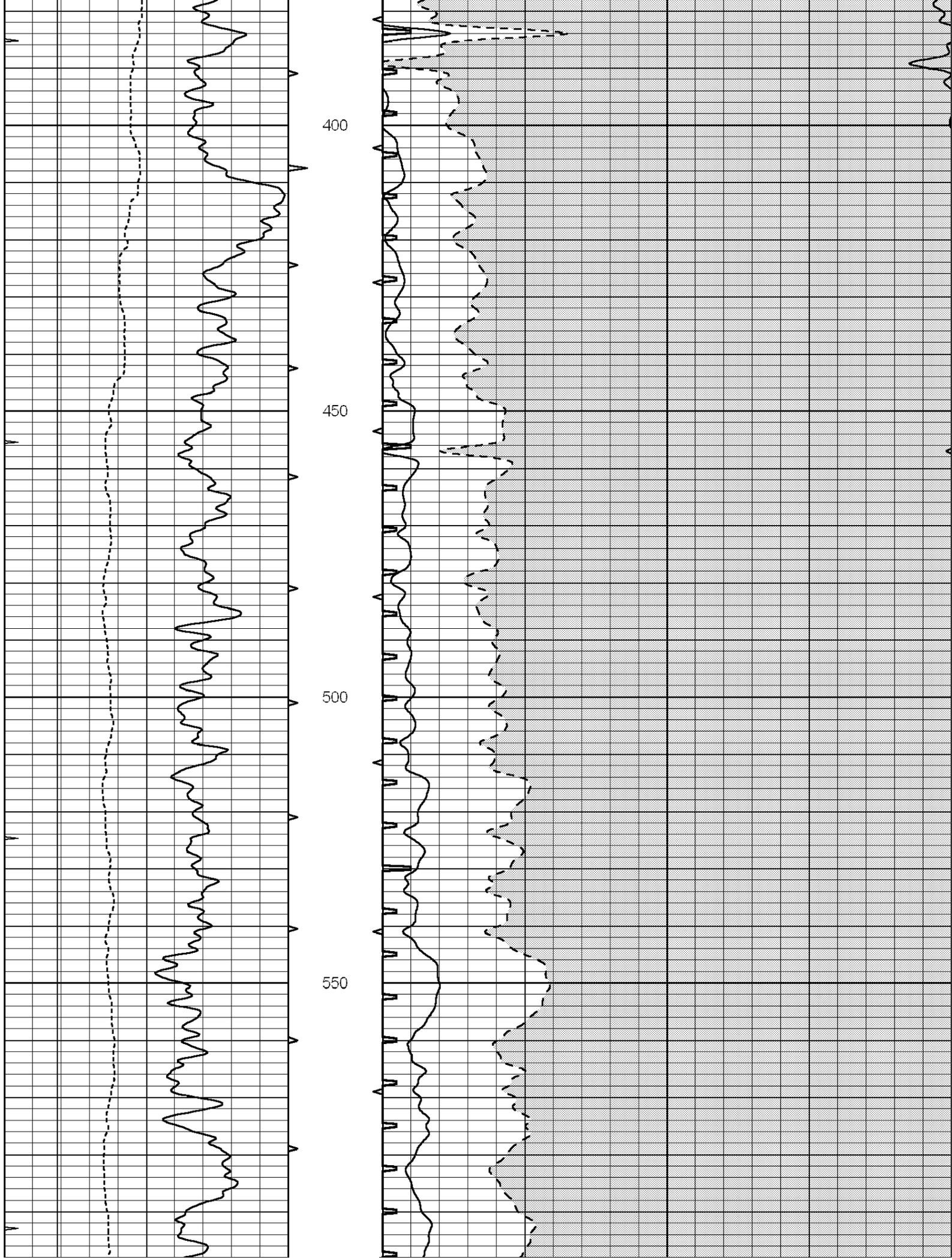
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

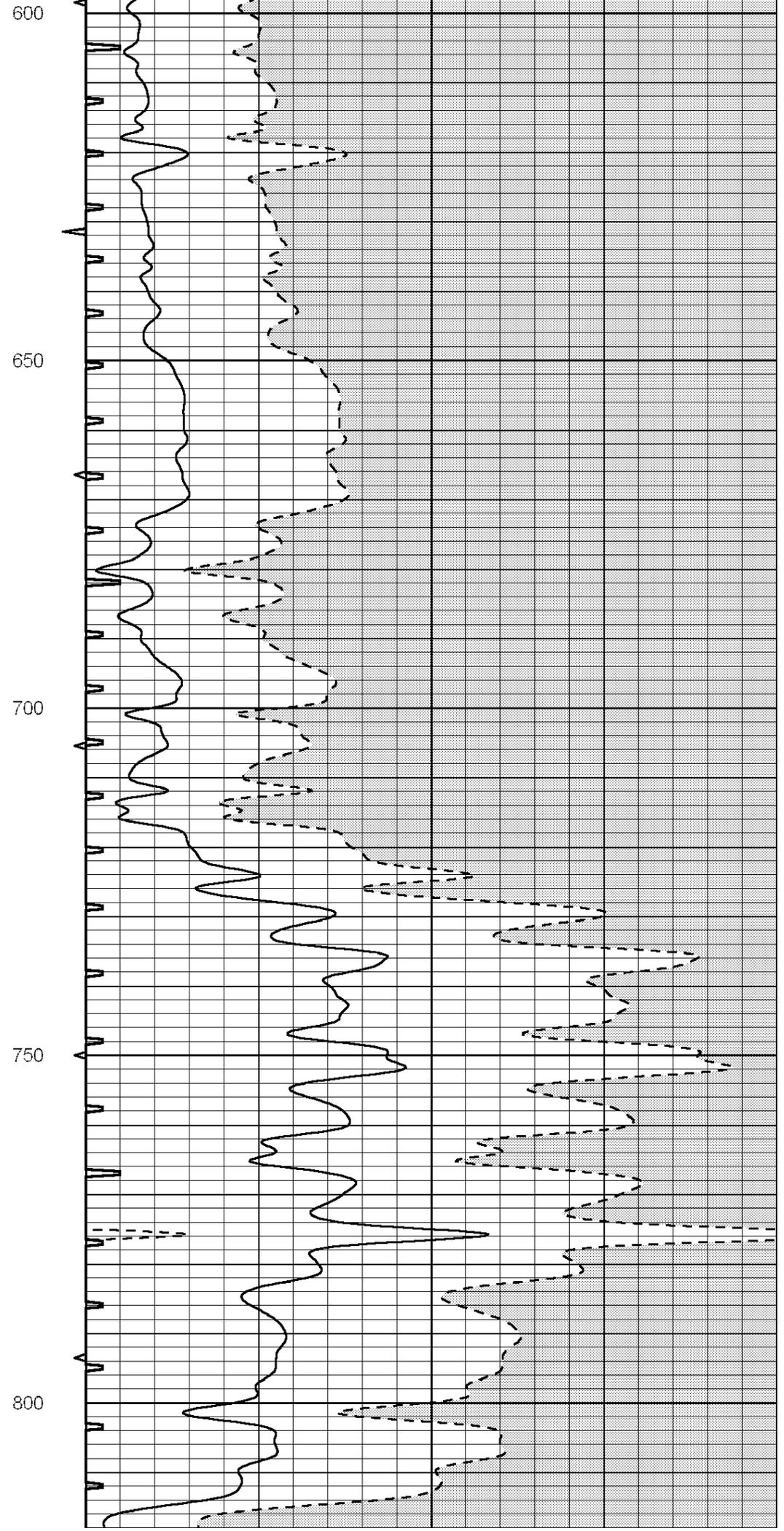
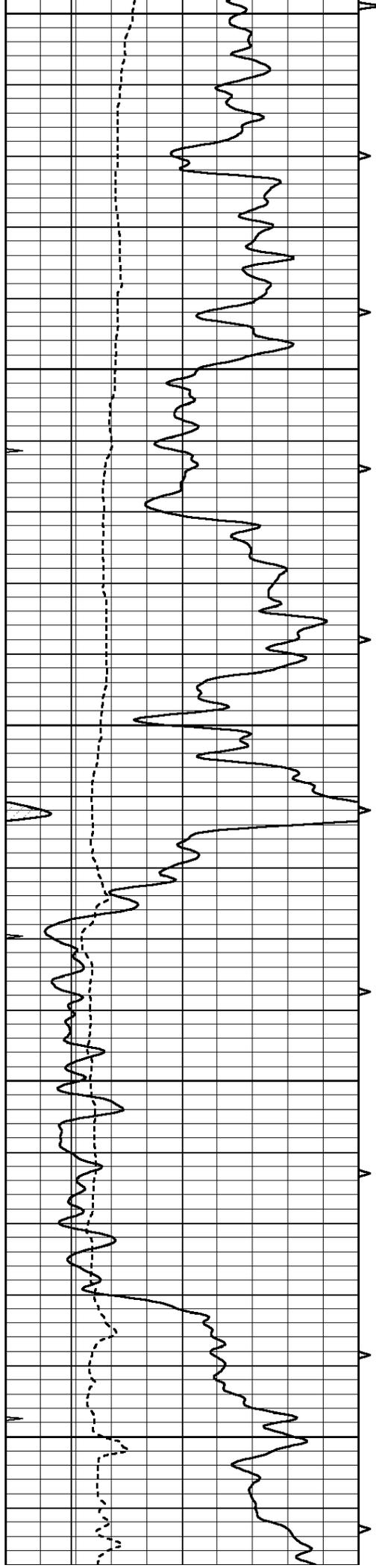
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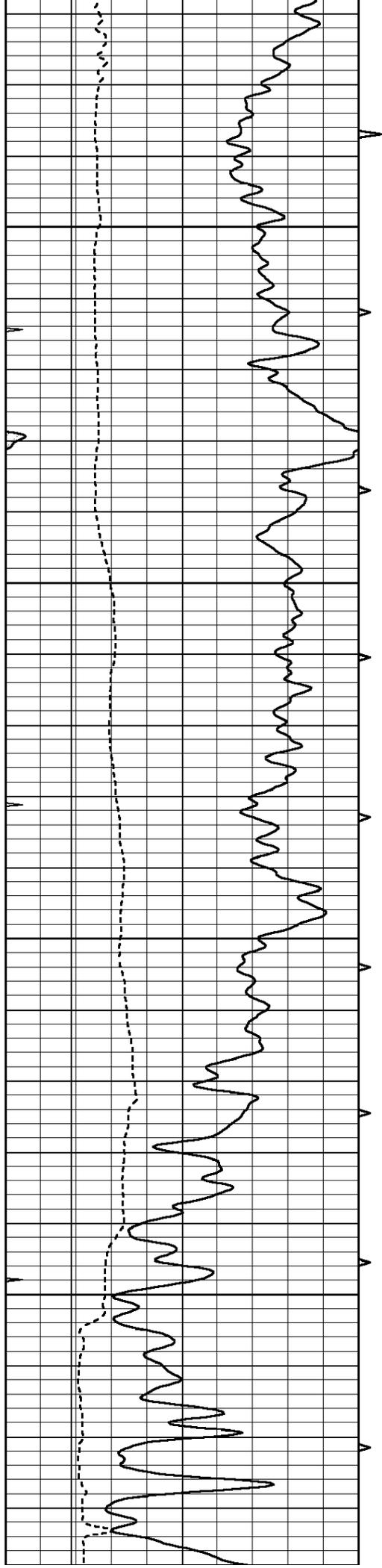
THANK YOU FOR USING "NABORS" HAYS, KANSAS (785) 628-6395
DIRECTIONS
RUSSELL SPRINGS, KS - SOUTH TO LOGAN/WICHITA COUNTY LINE
1 MILE SOUTH TO RD B
5 MILES WEST - NORTH INTO

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			







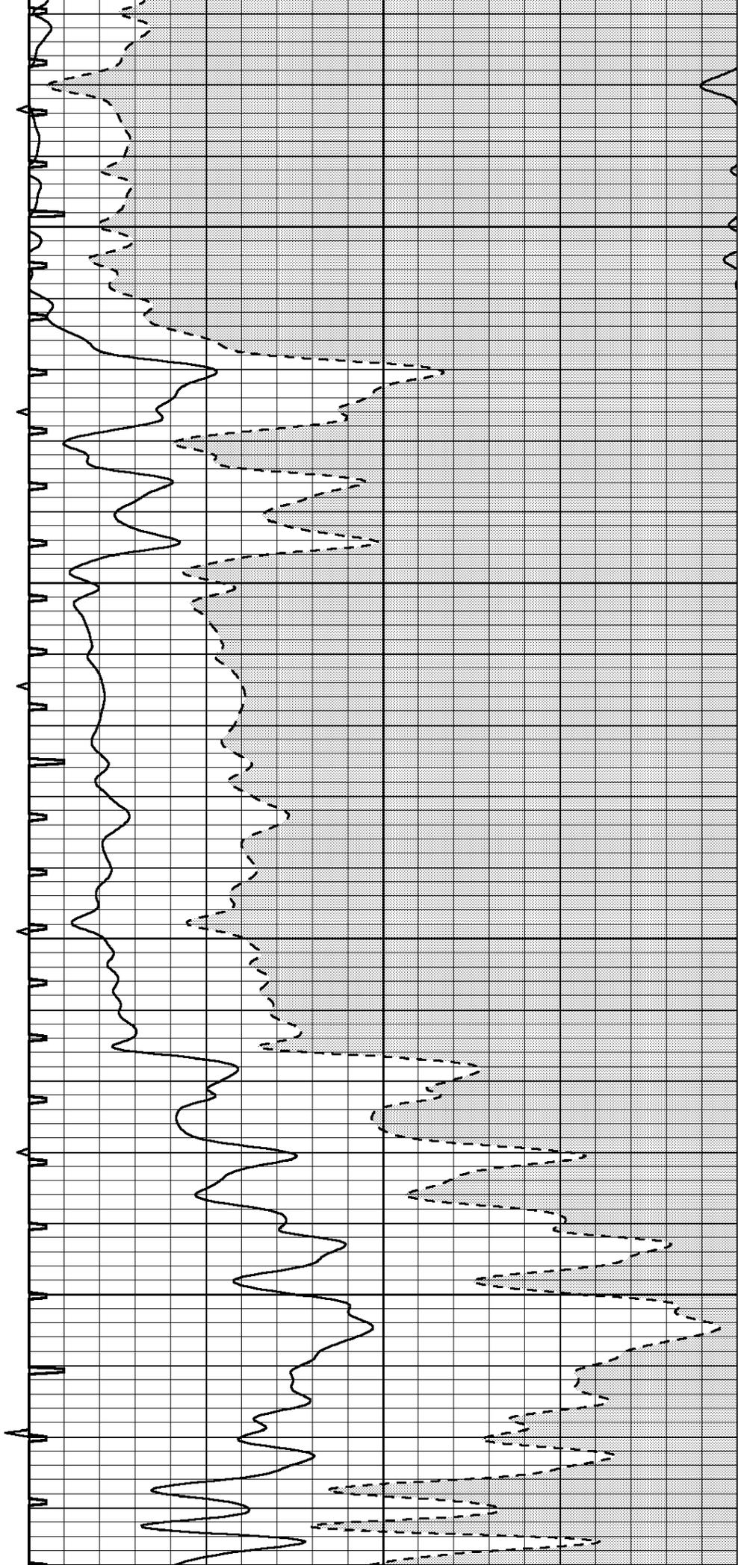


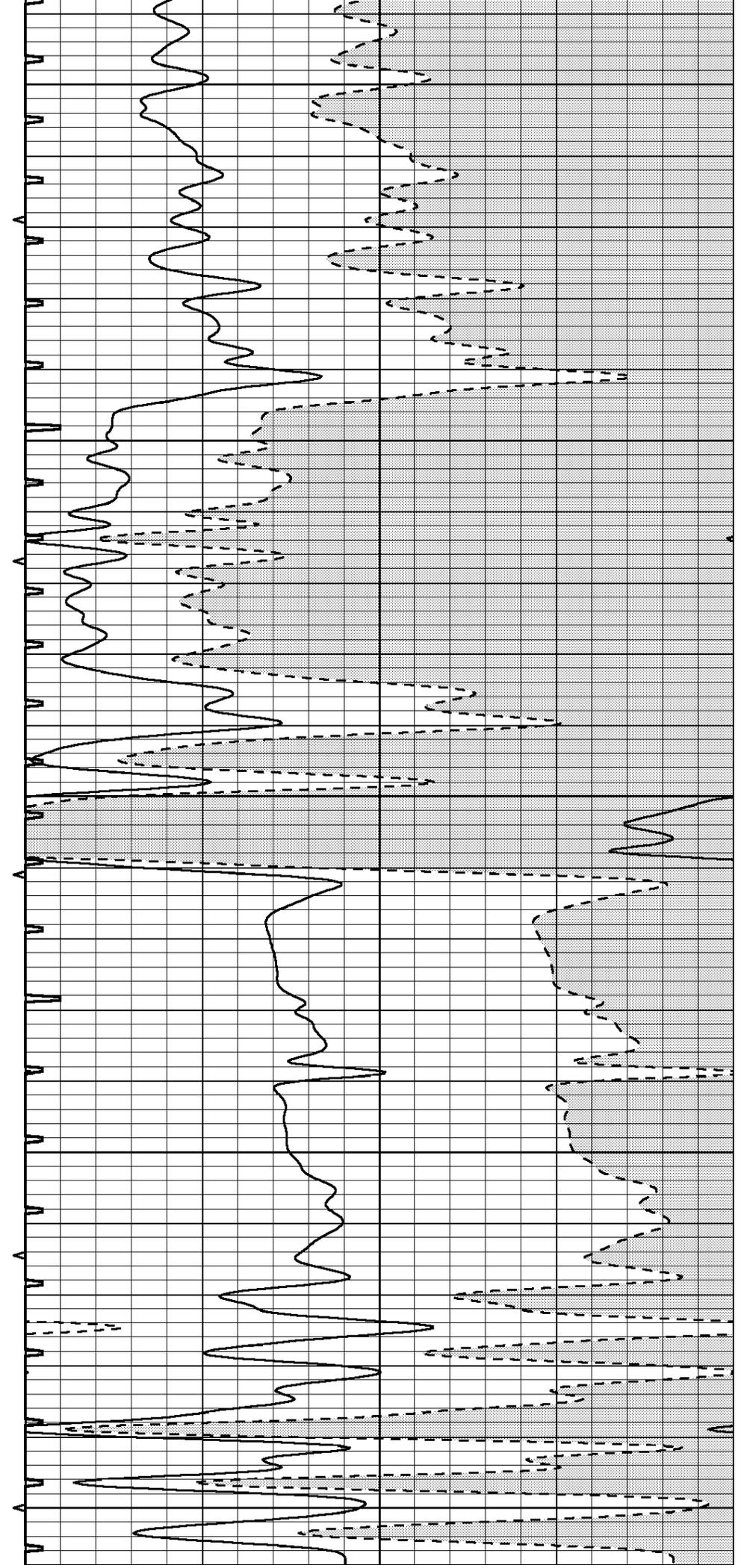
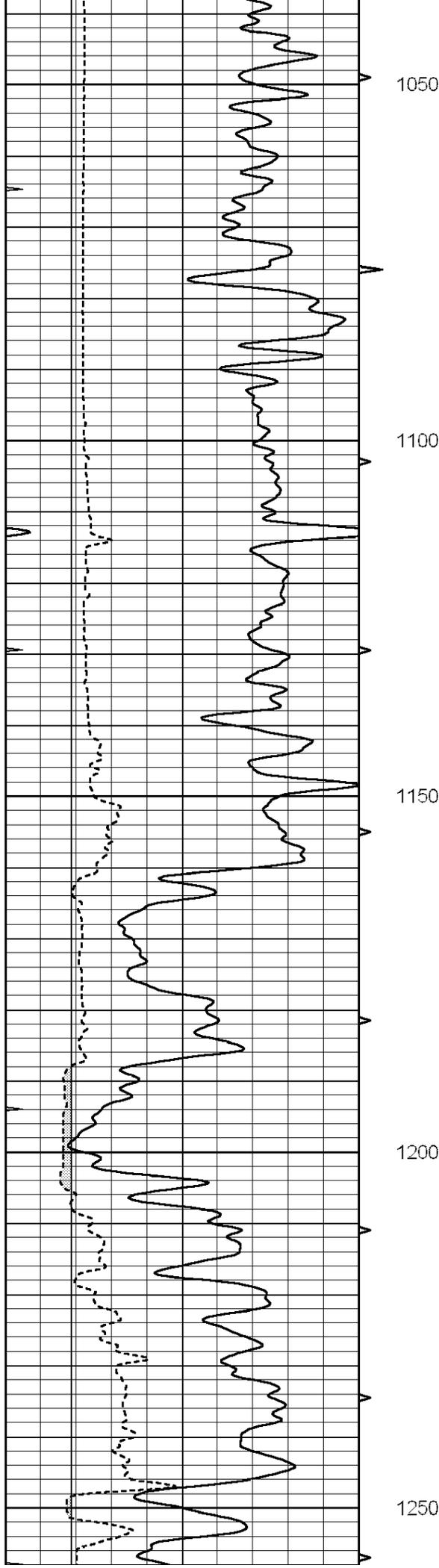
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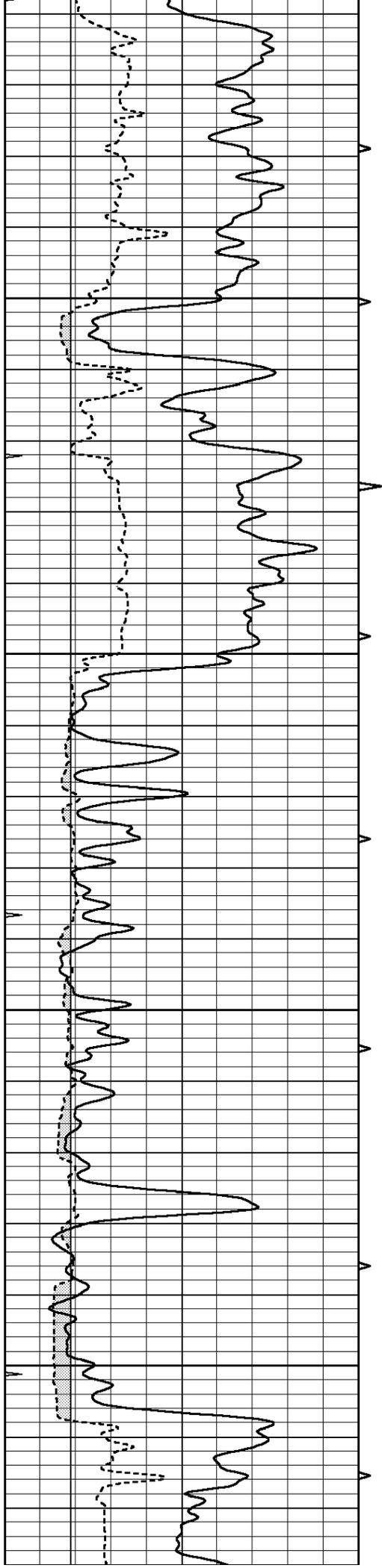
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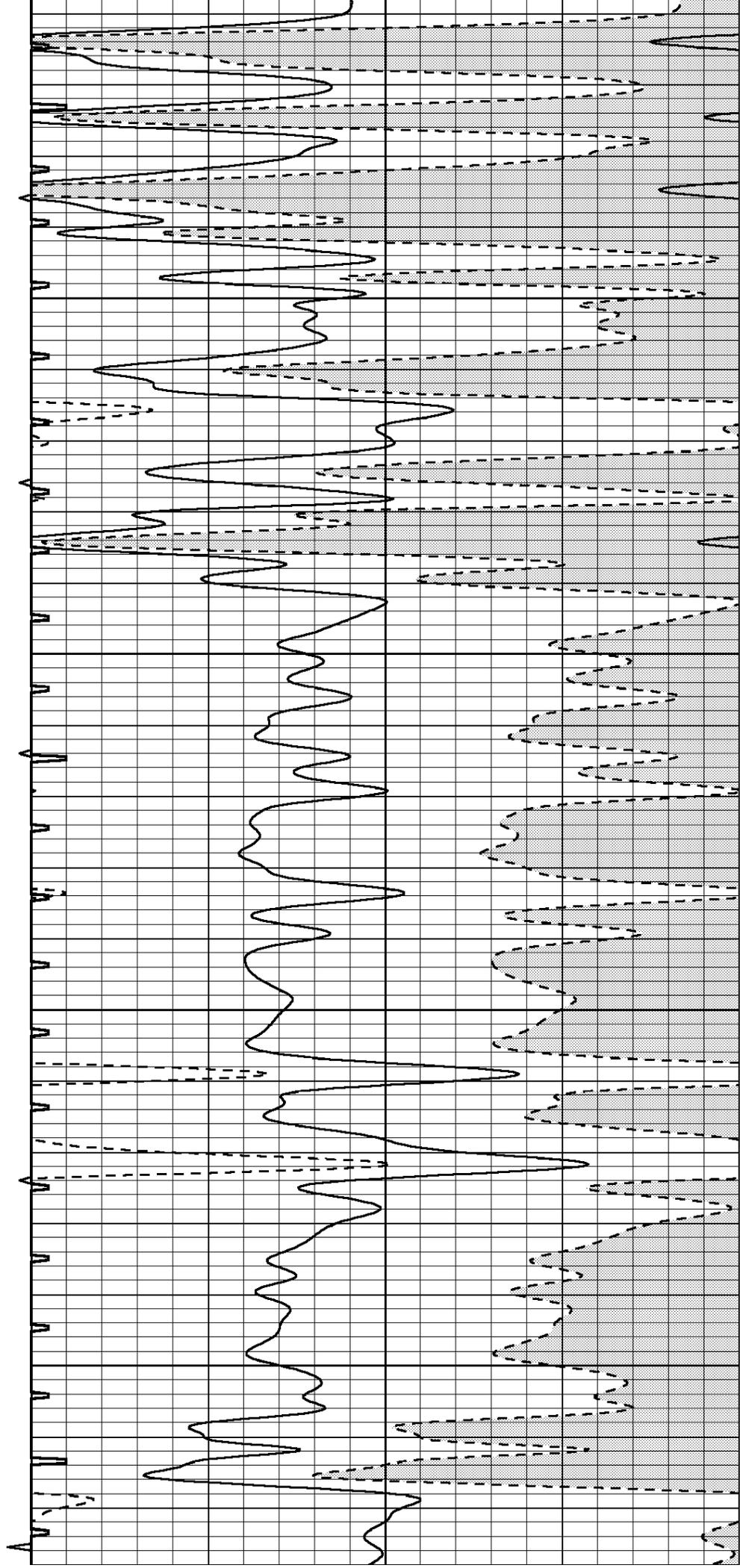


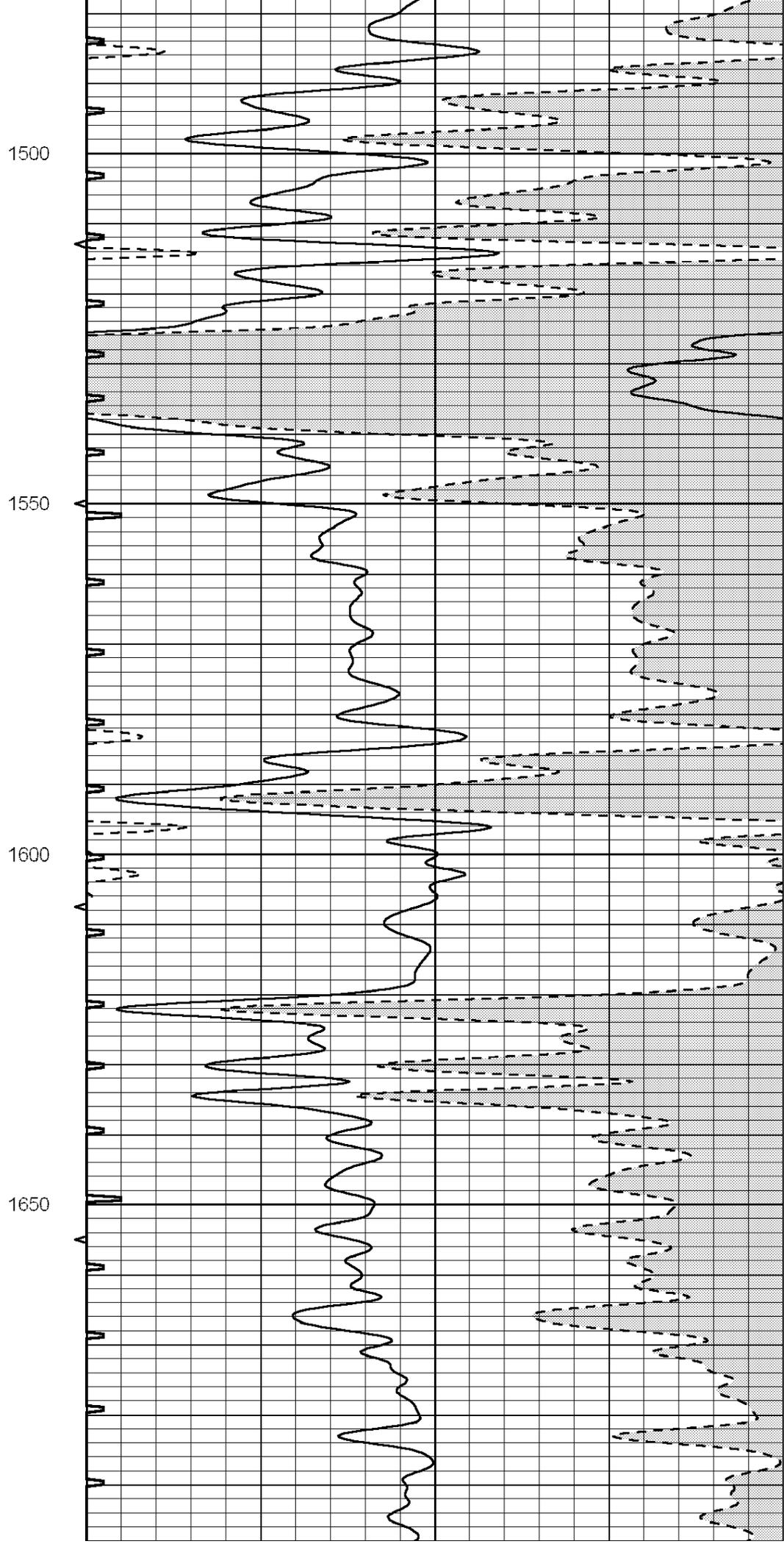
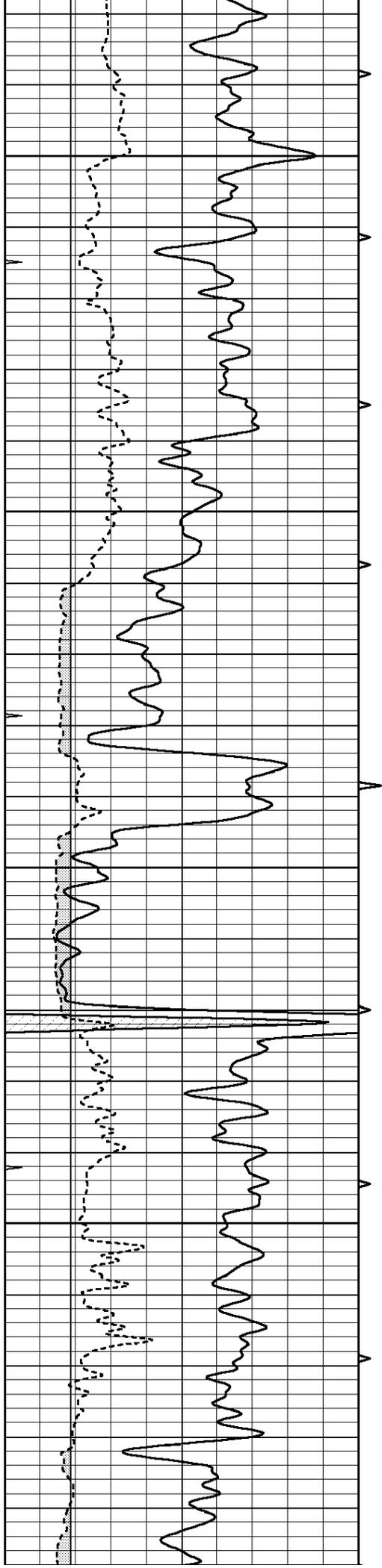
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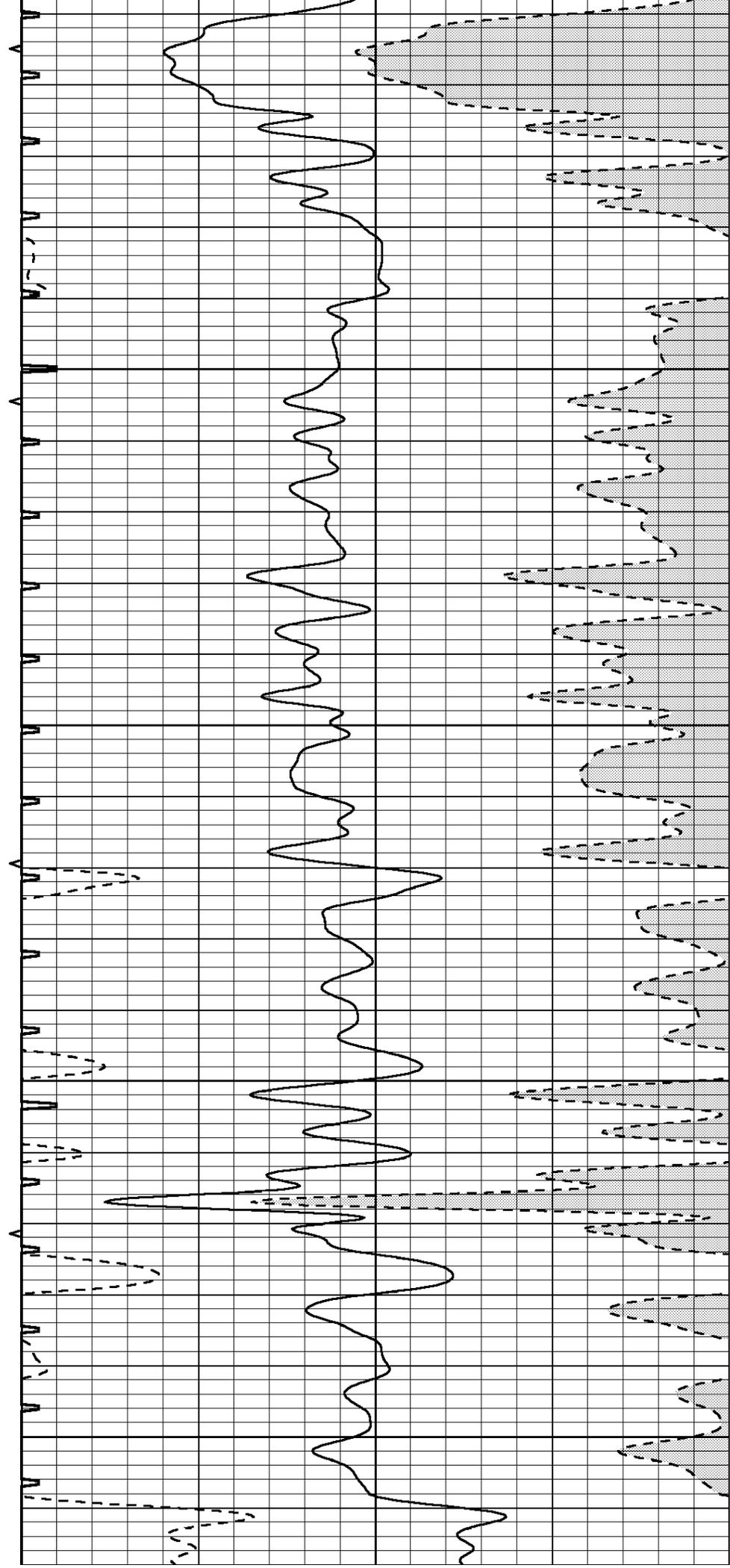
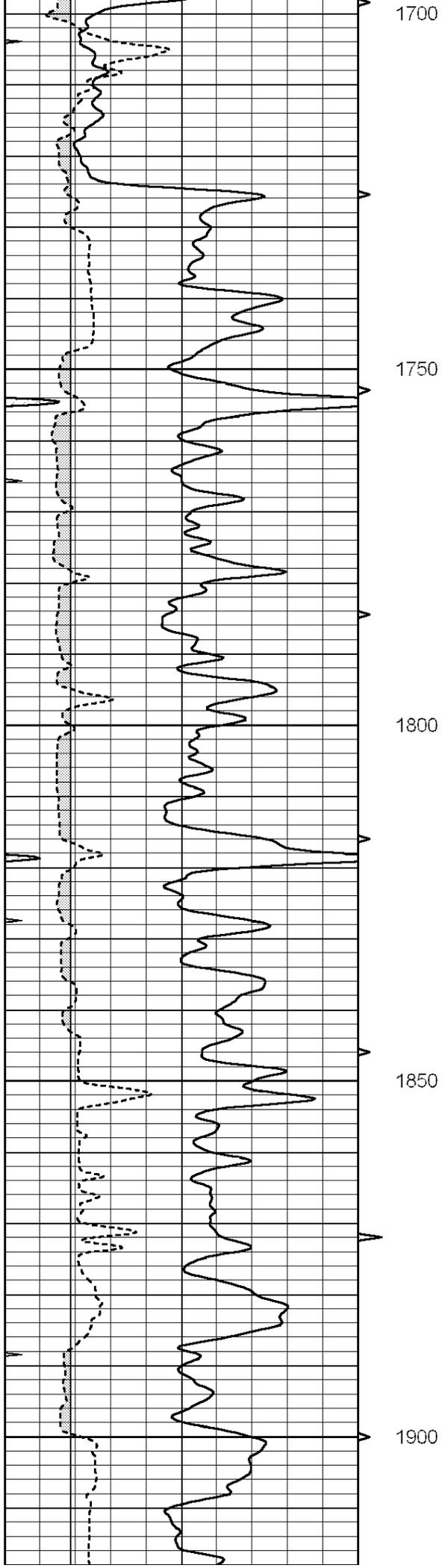
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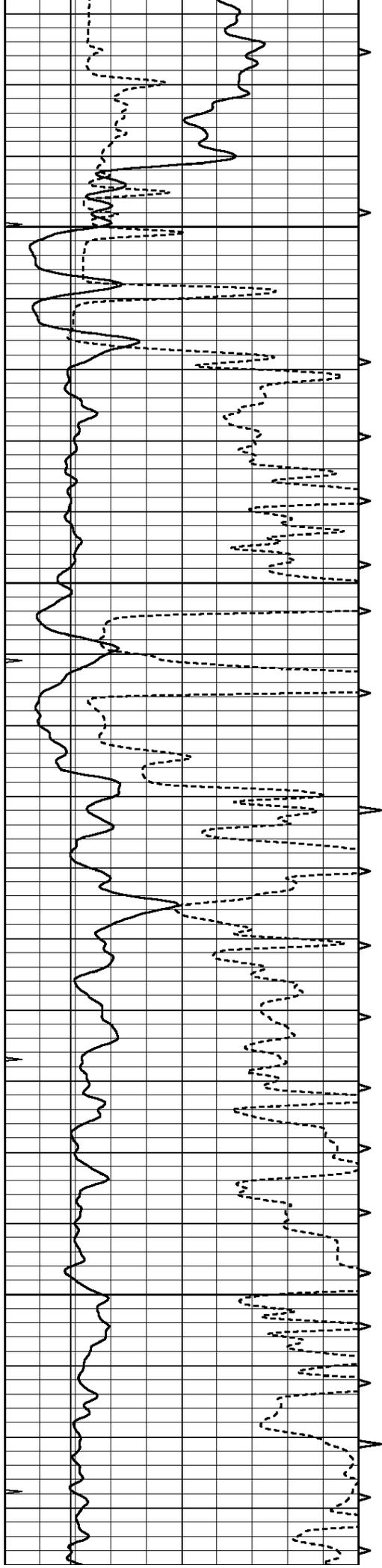
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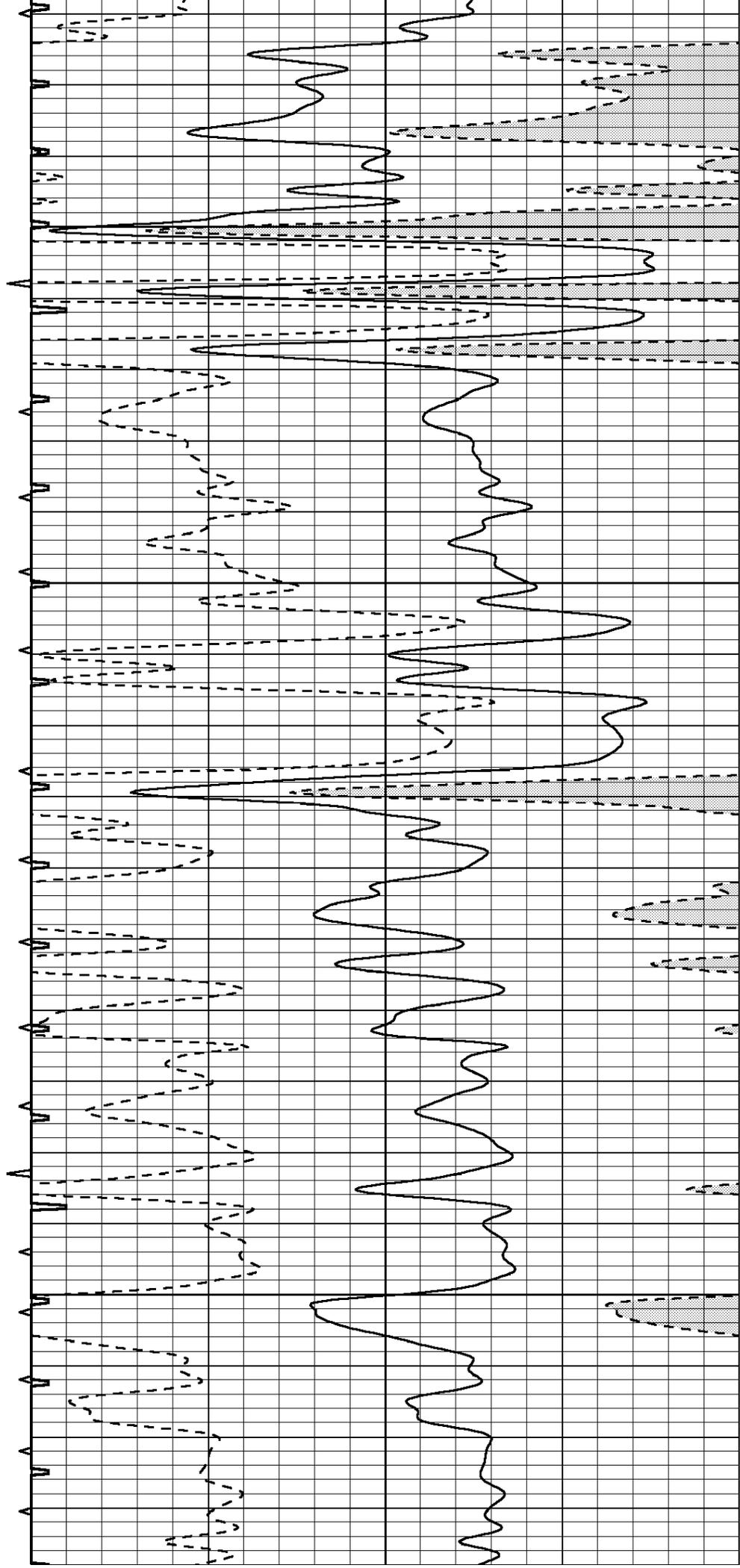


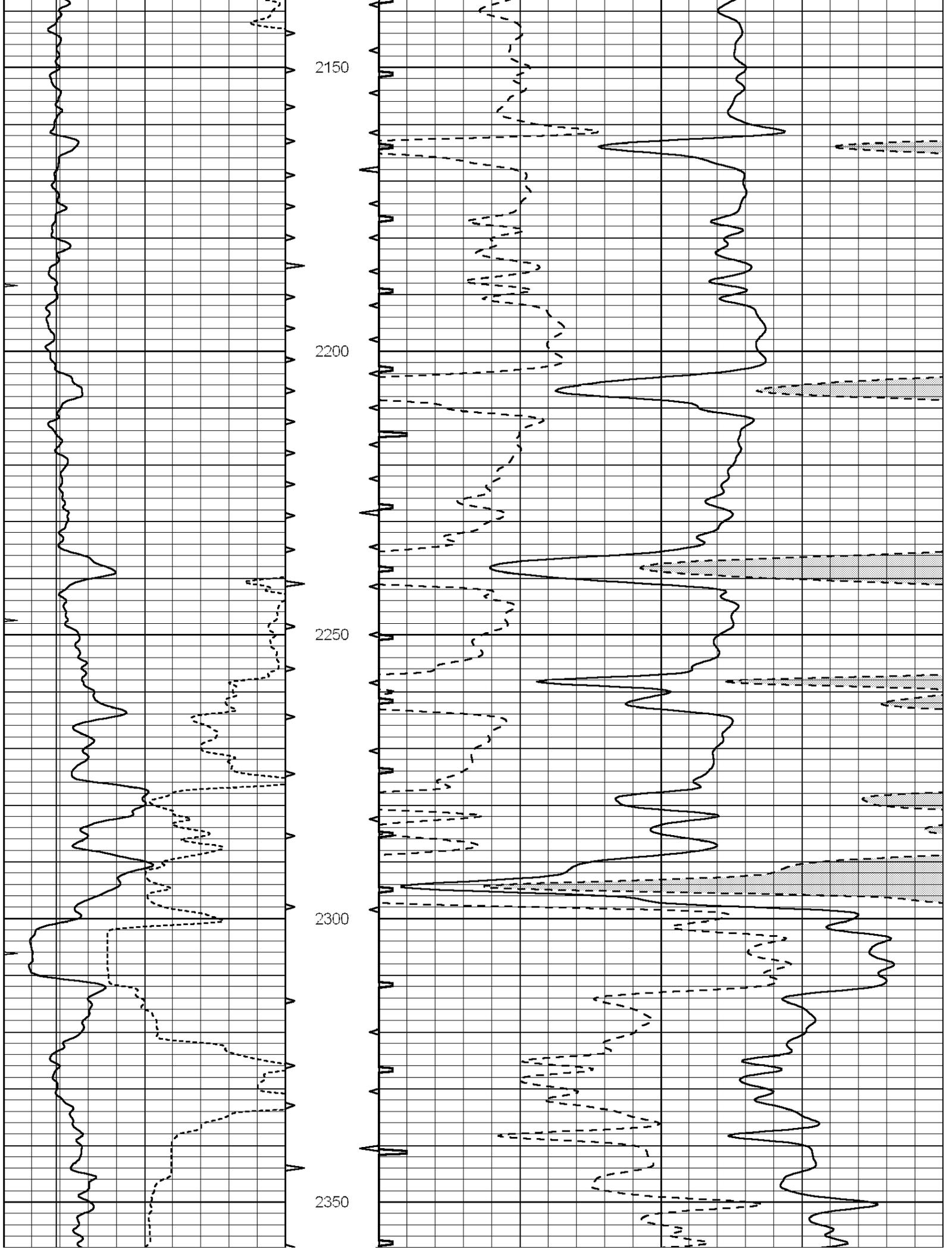
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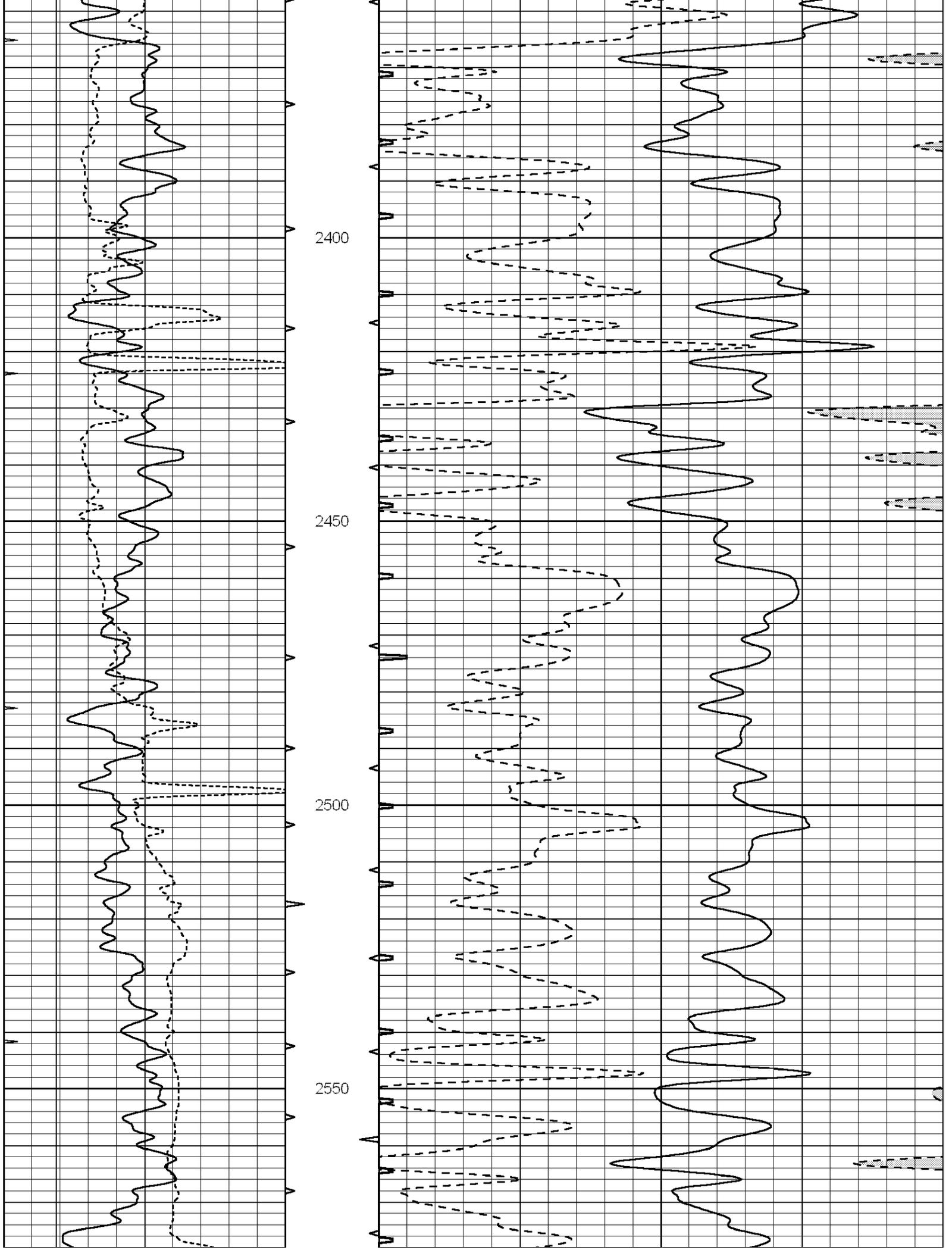
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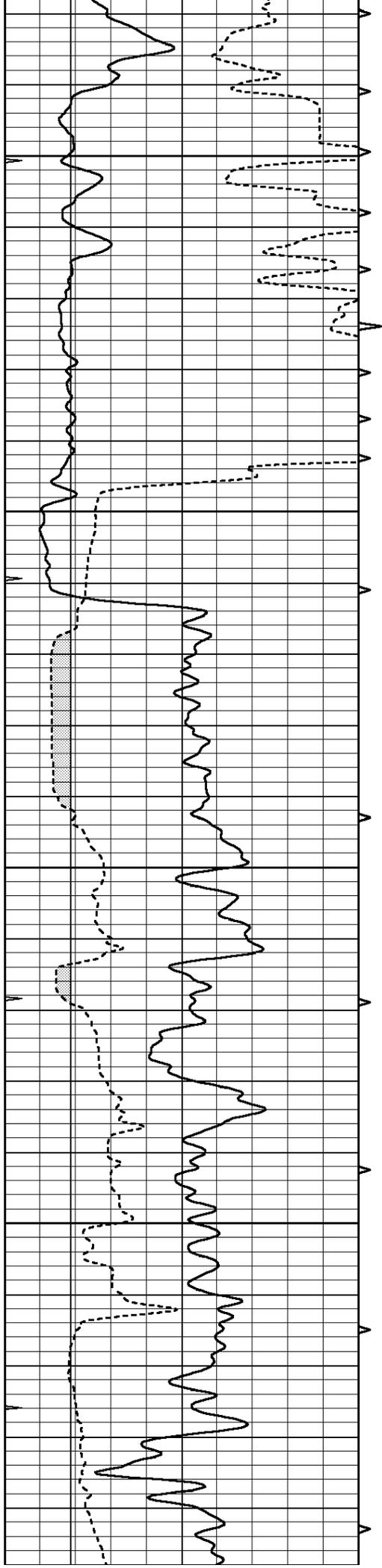
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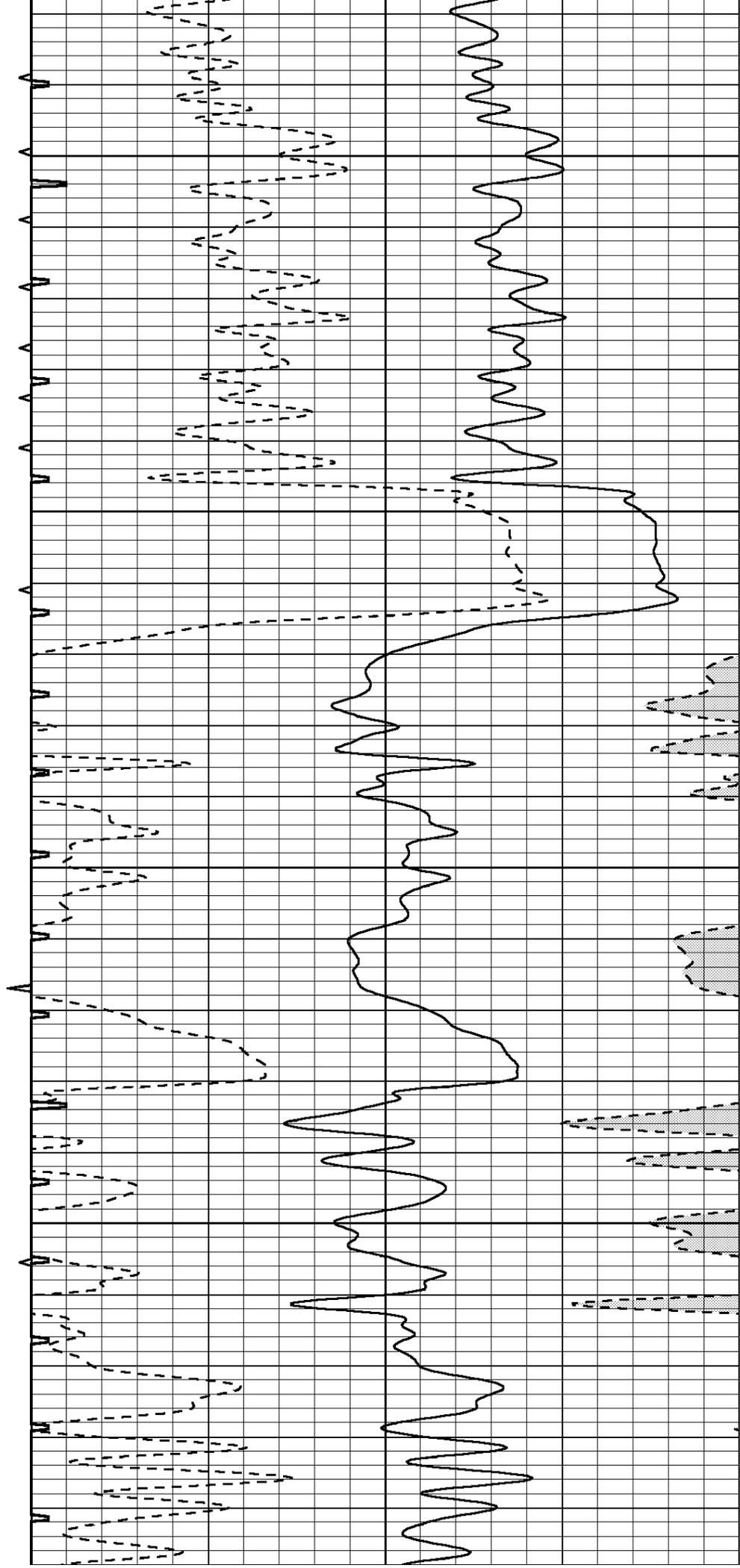


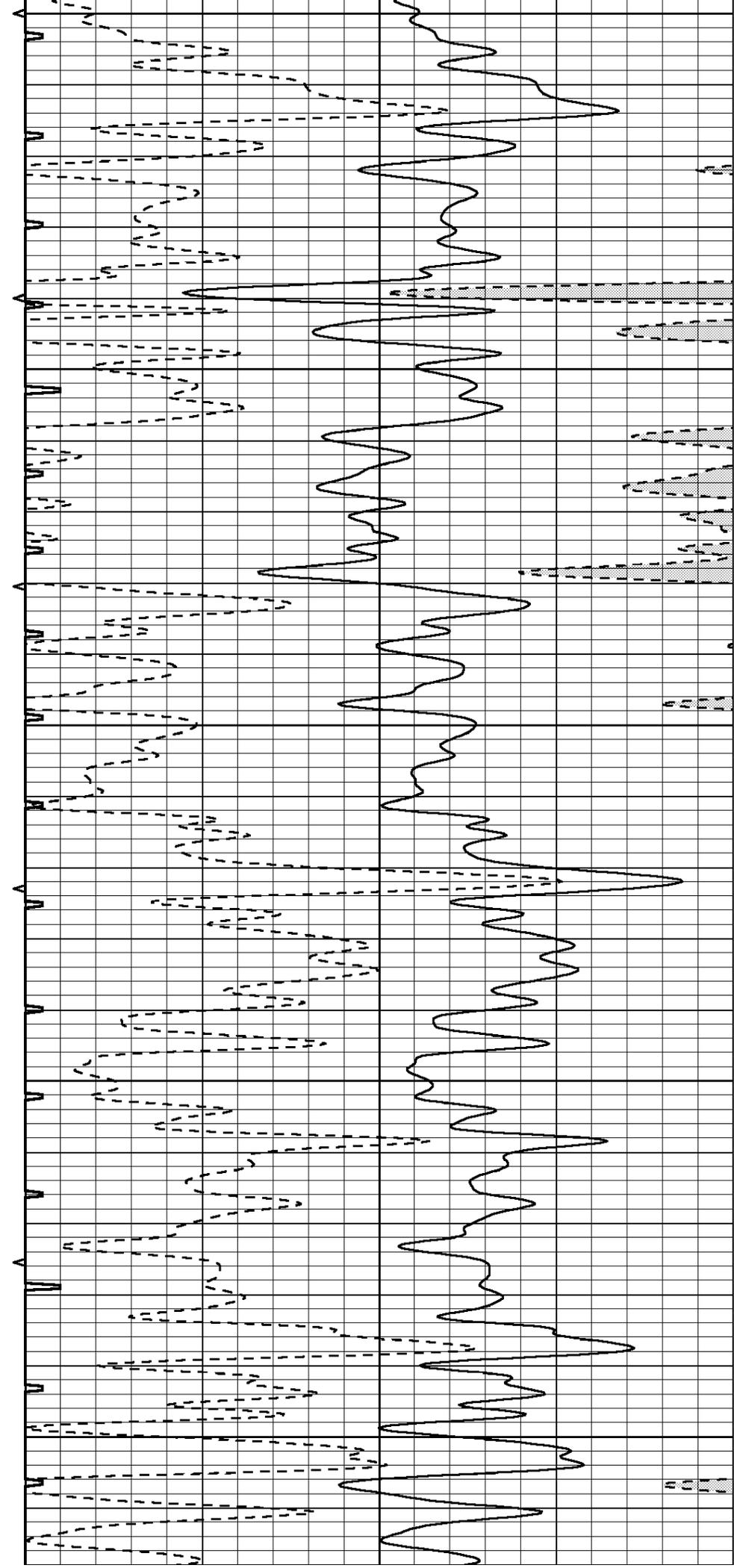
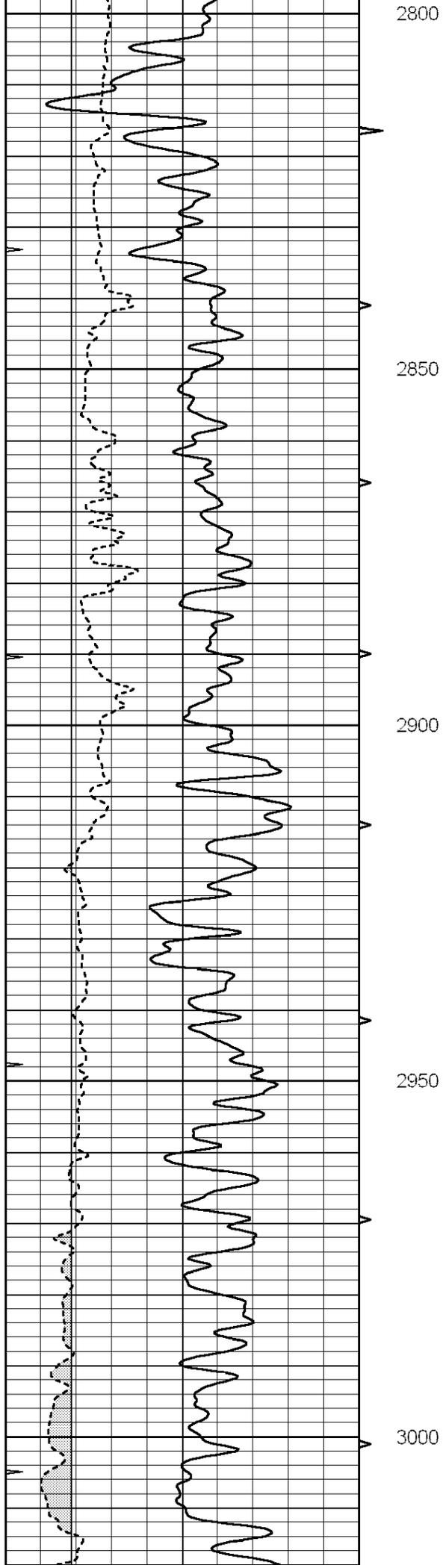
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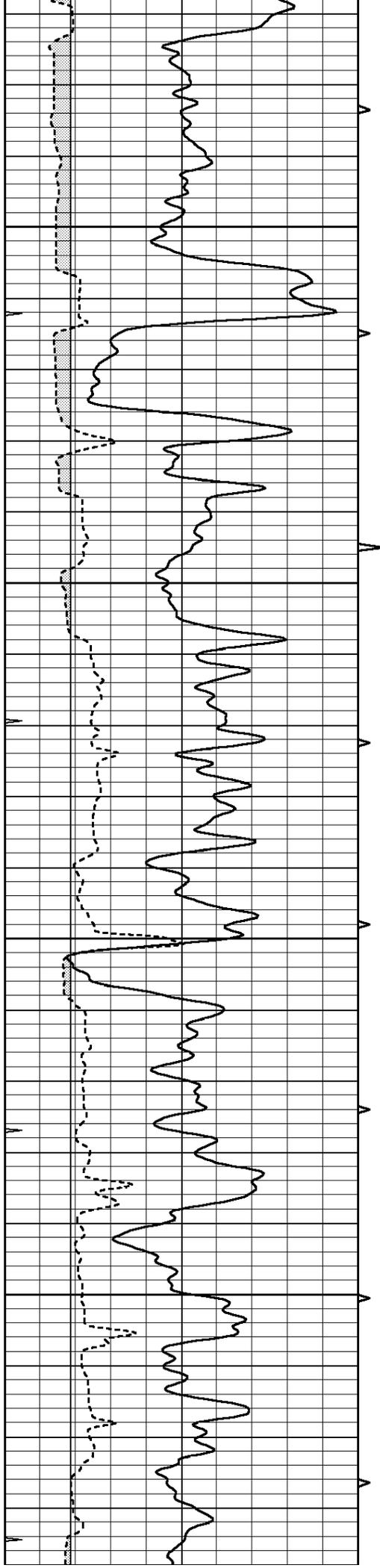
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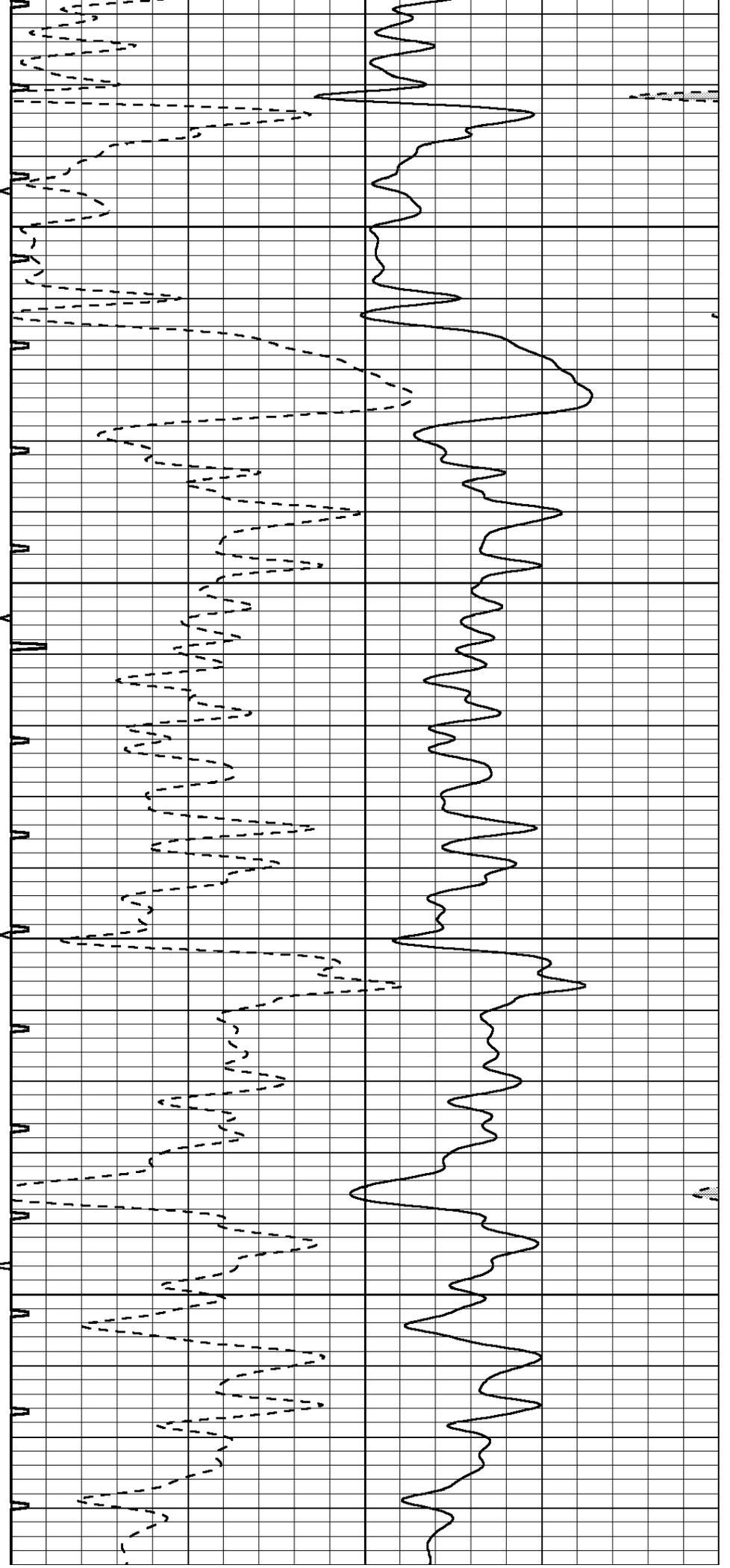


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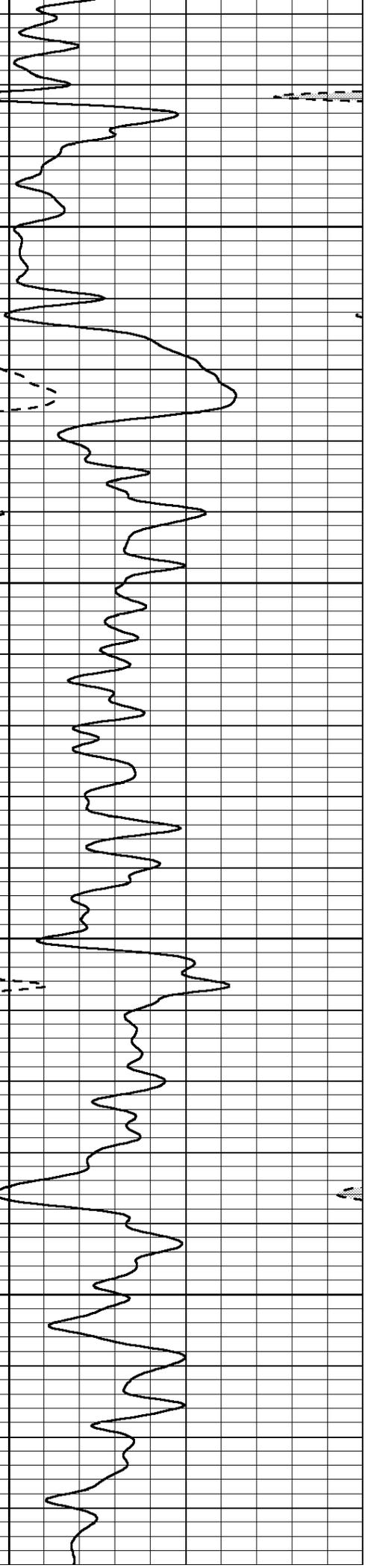


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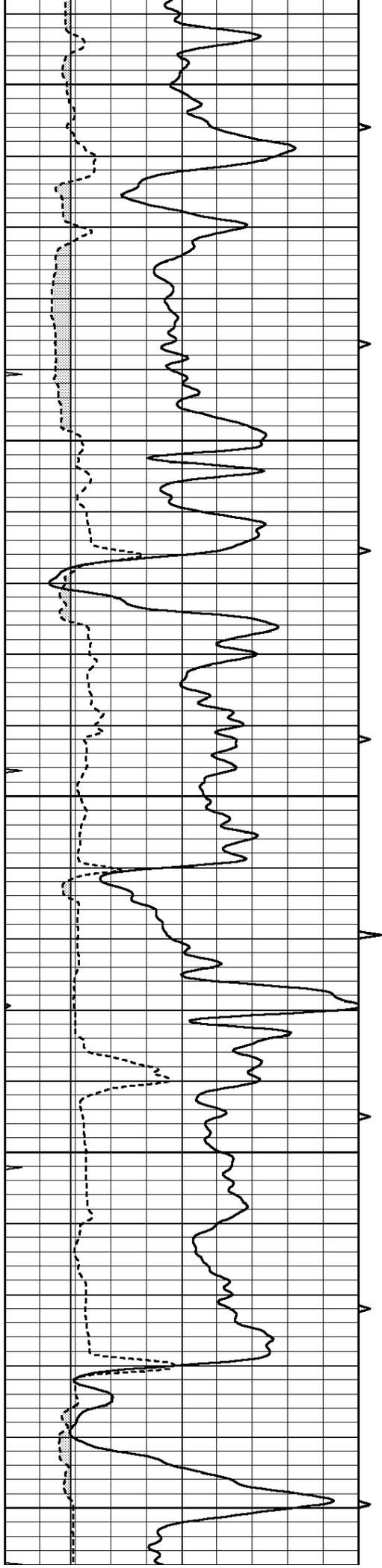


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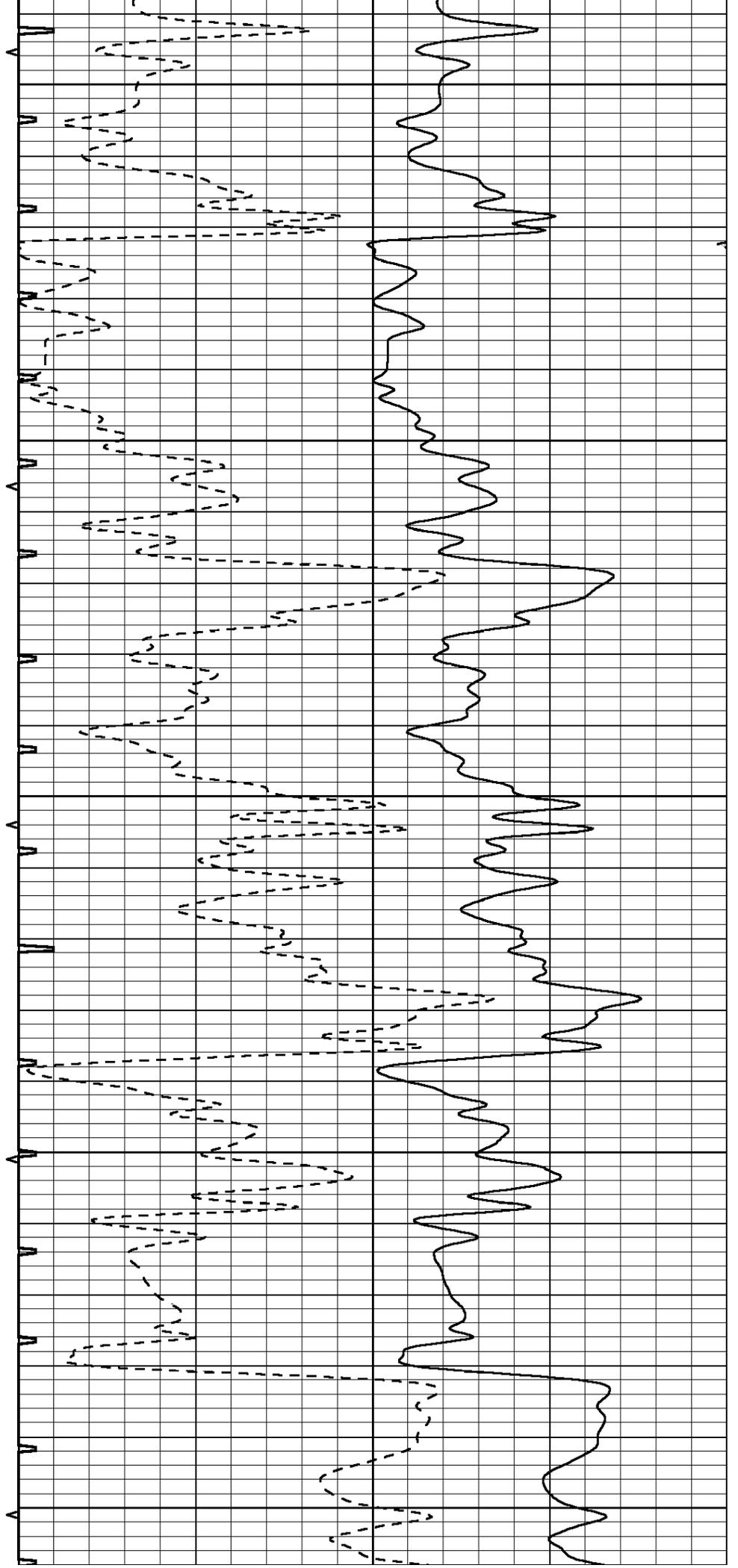
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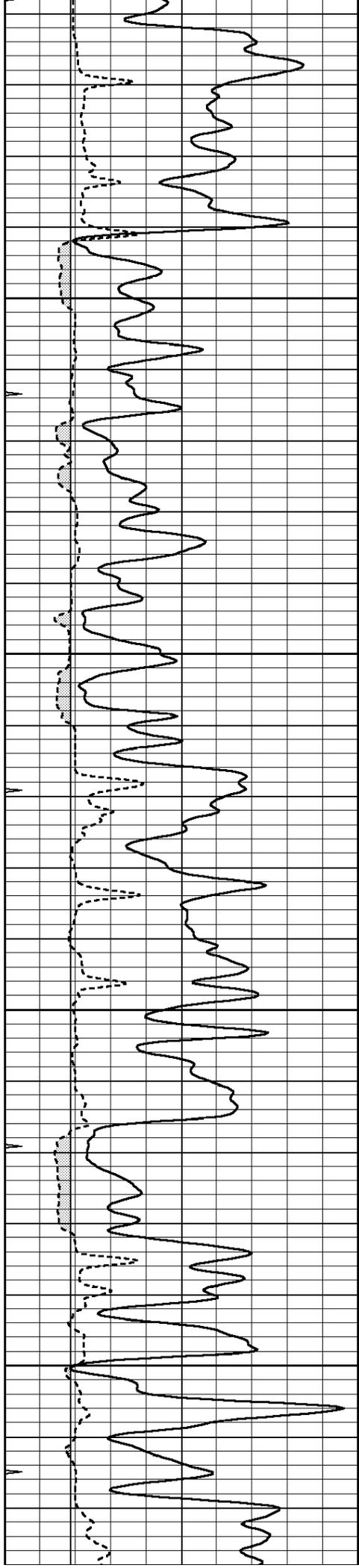
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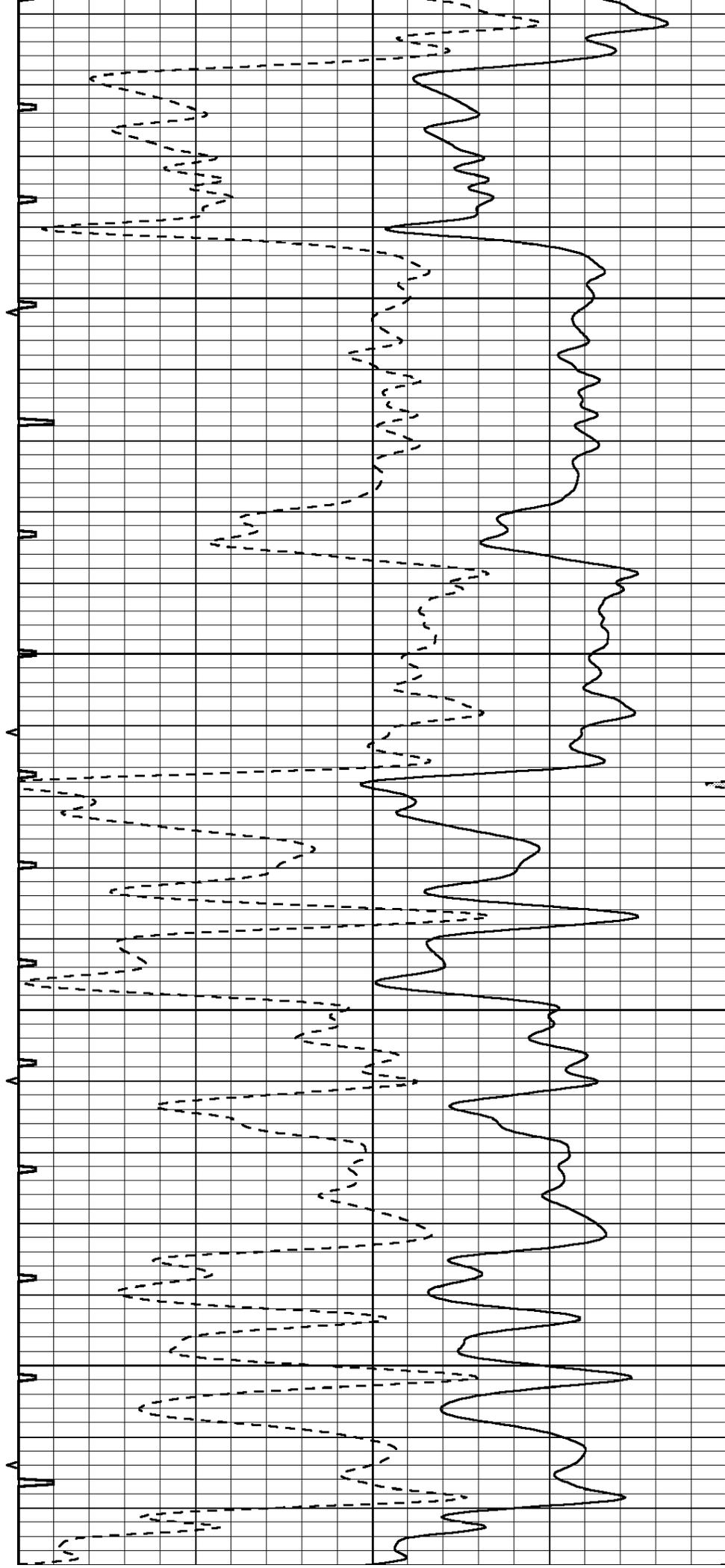


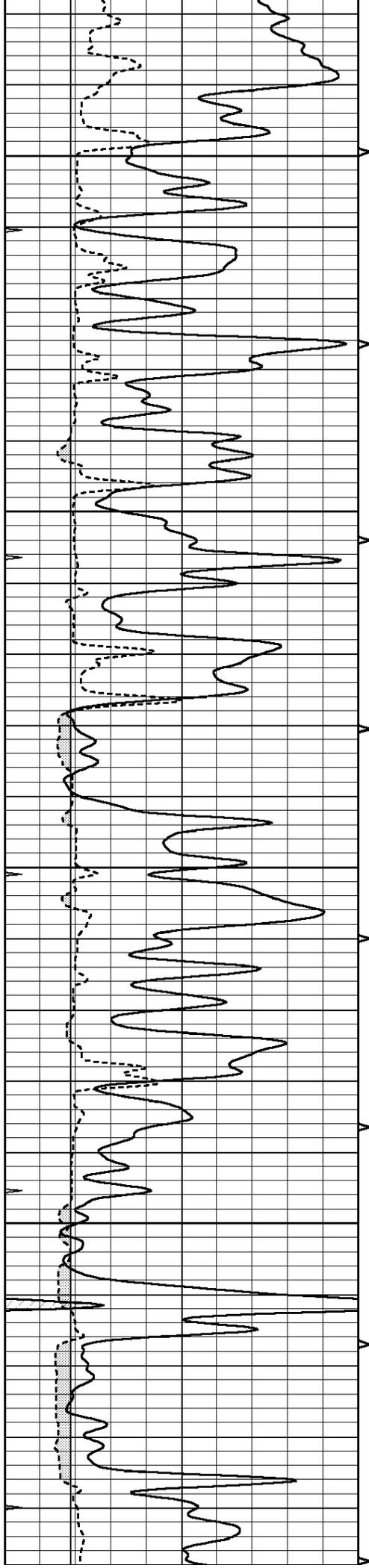
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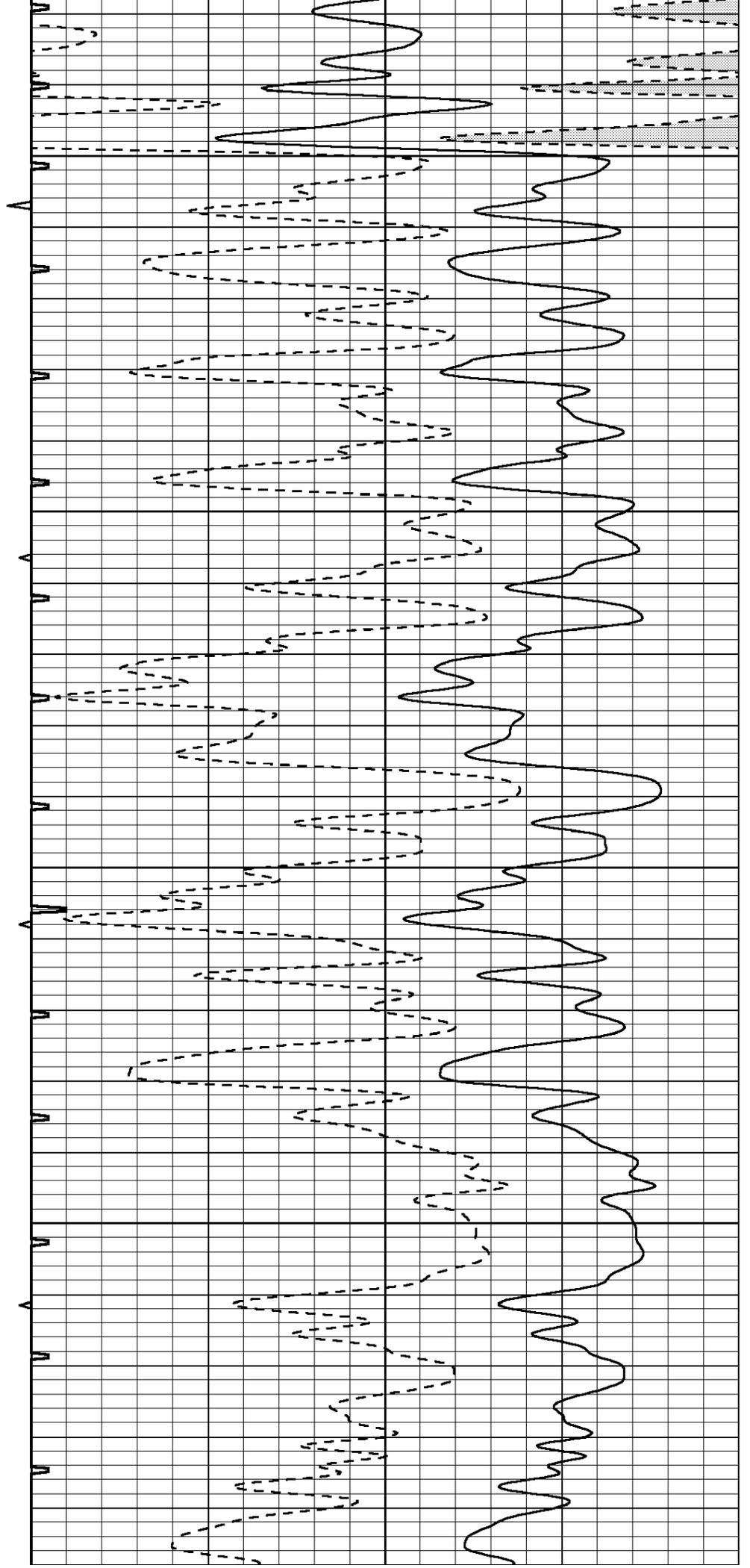


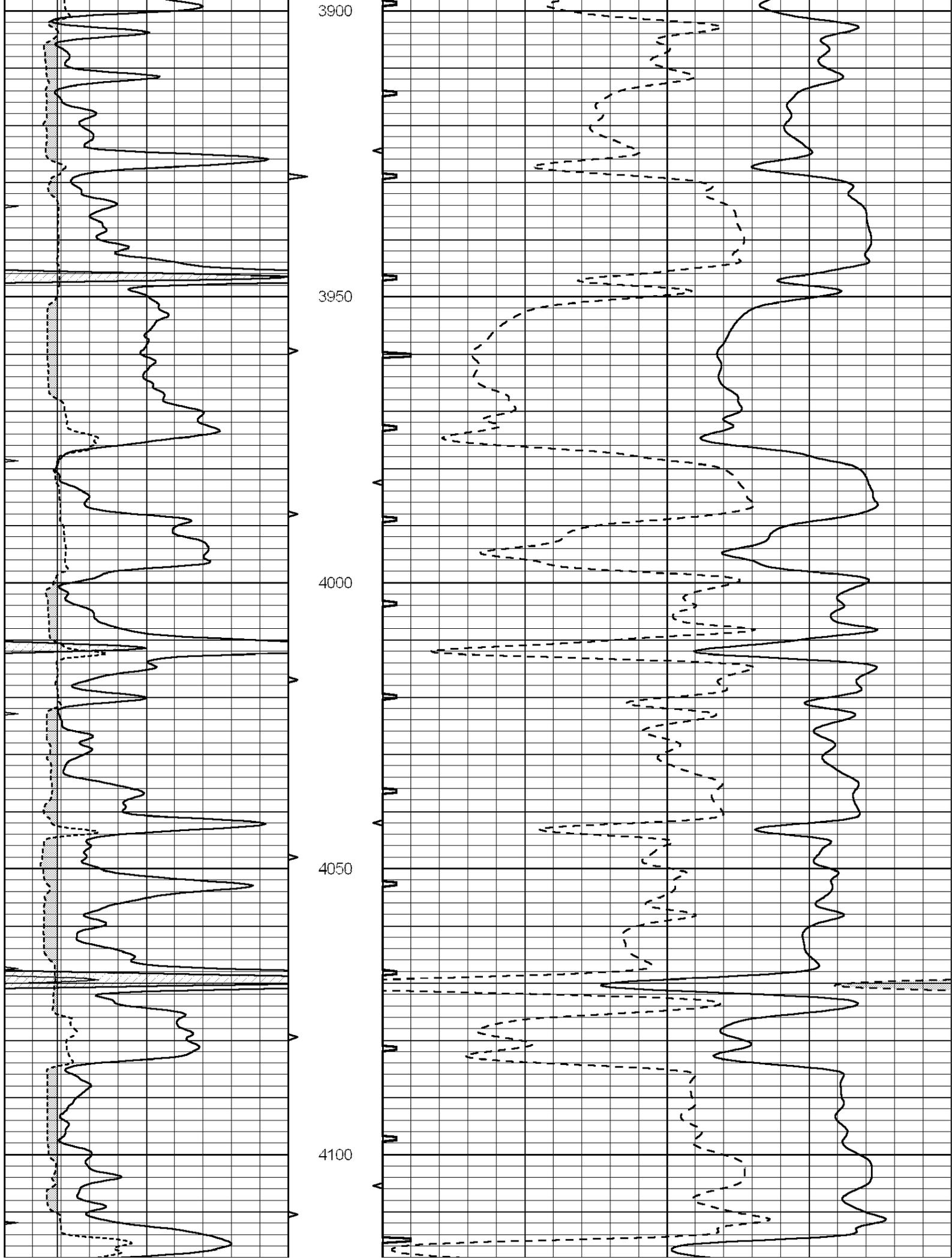
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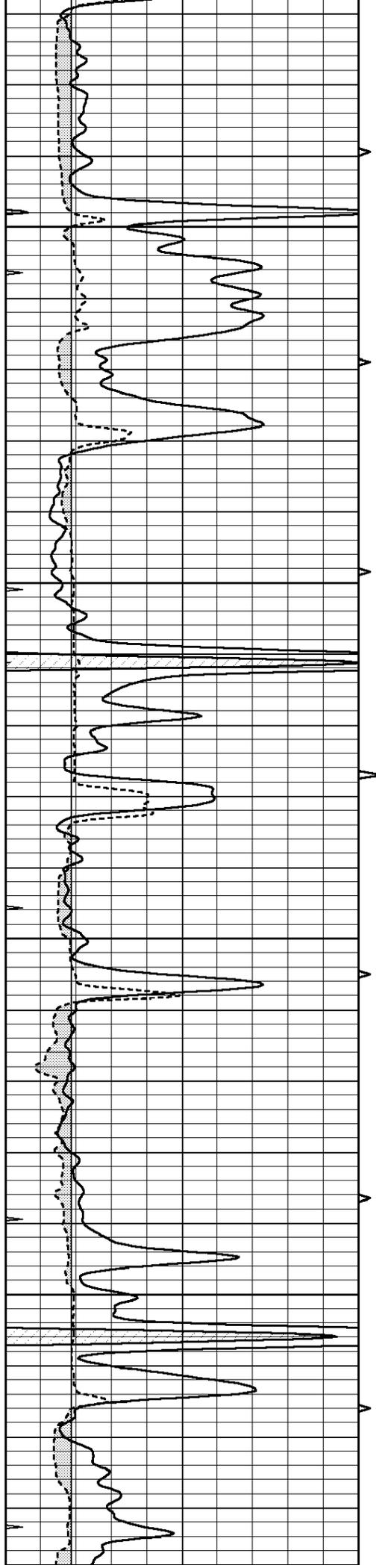
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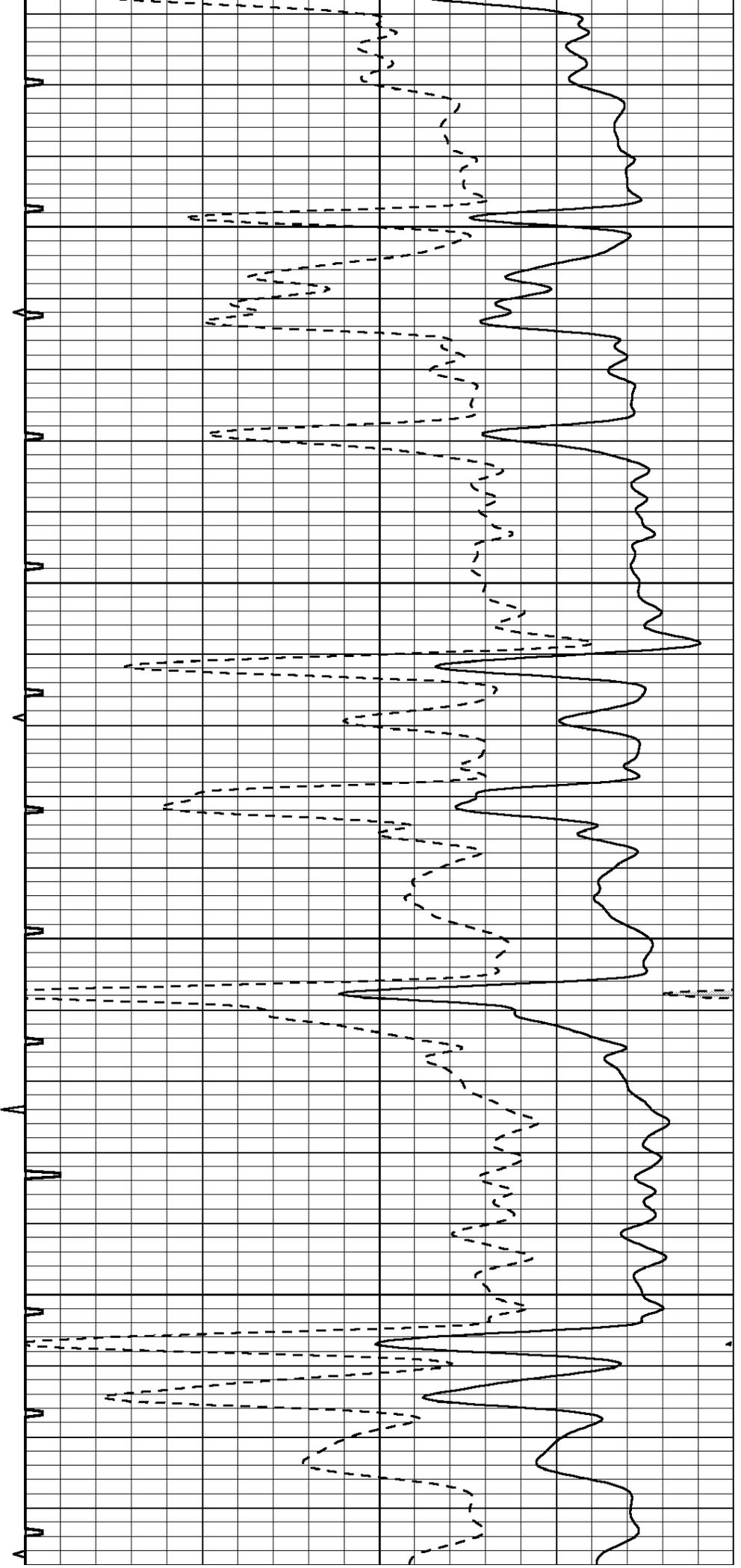


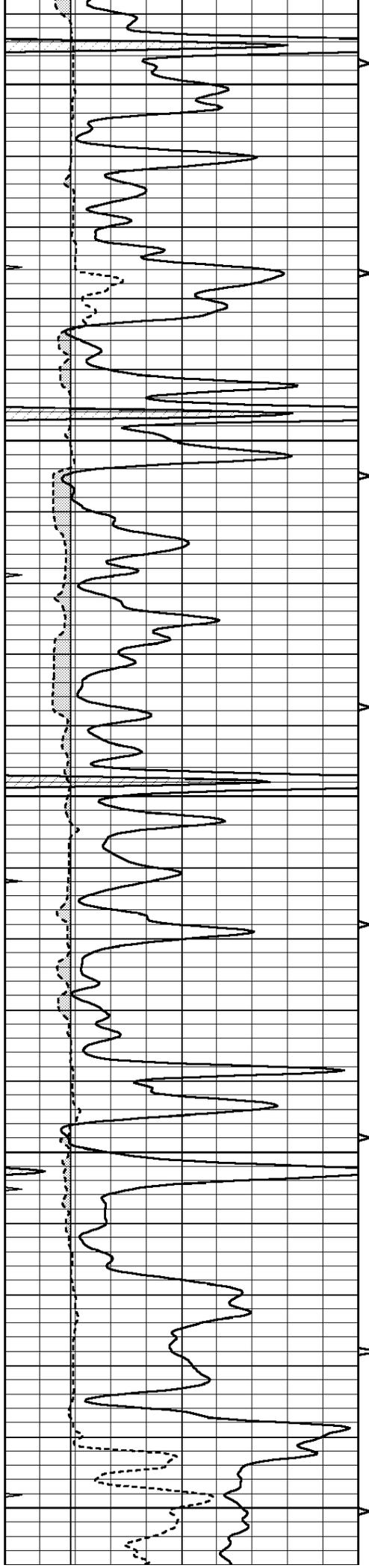
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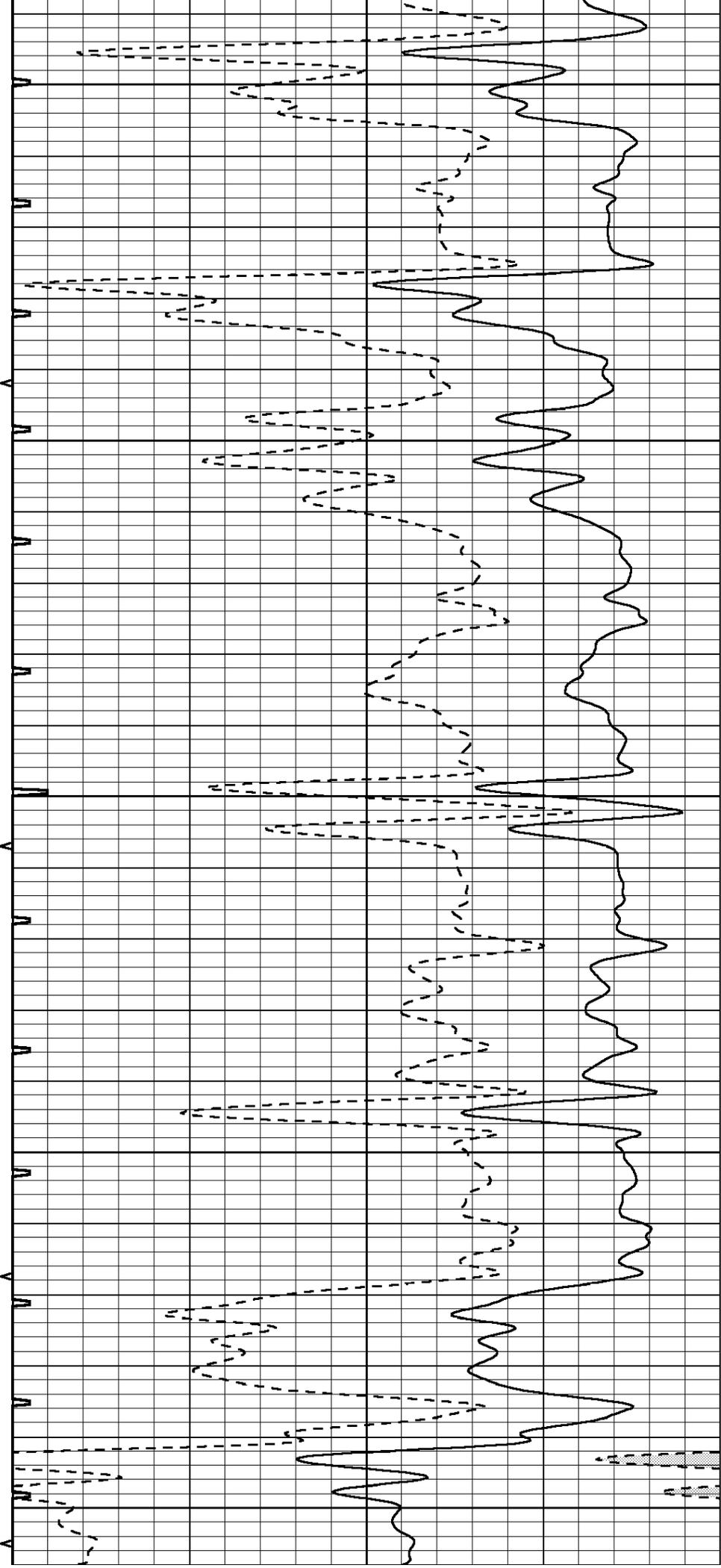
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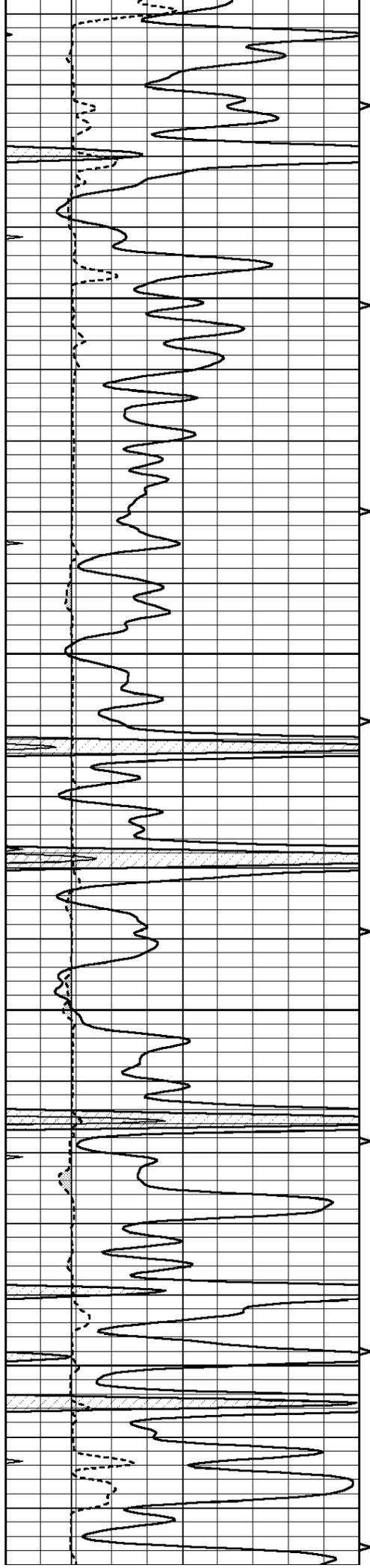
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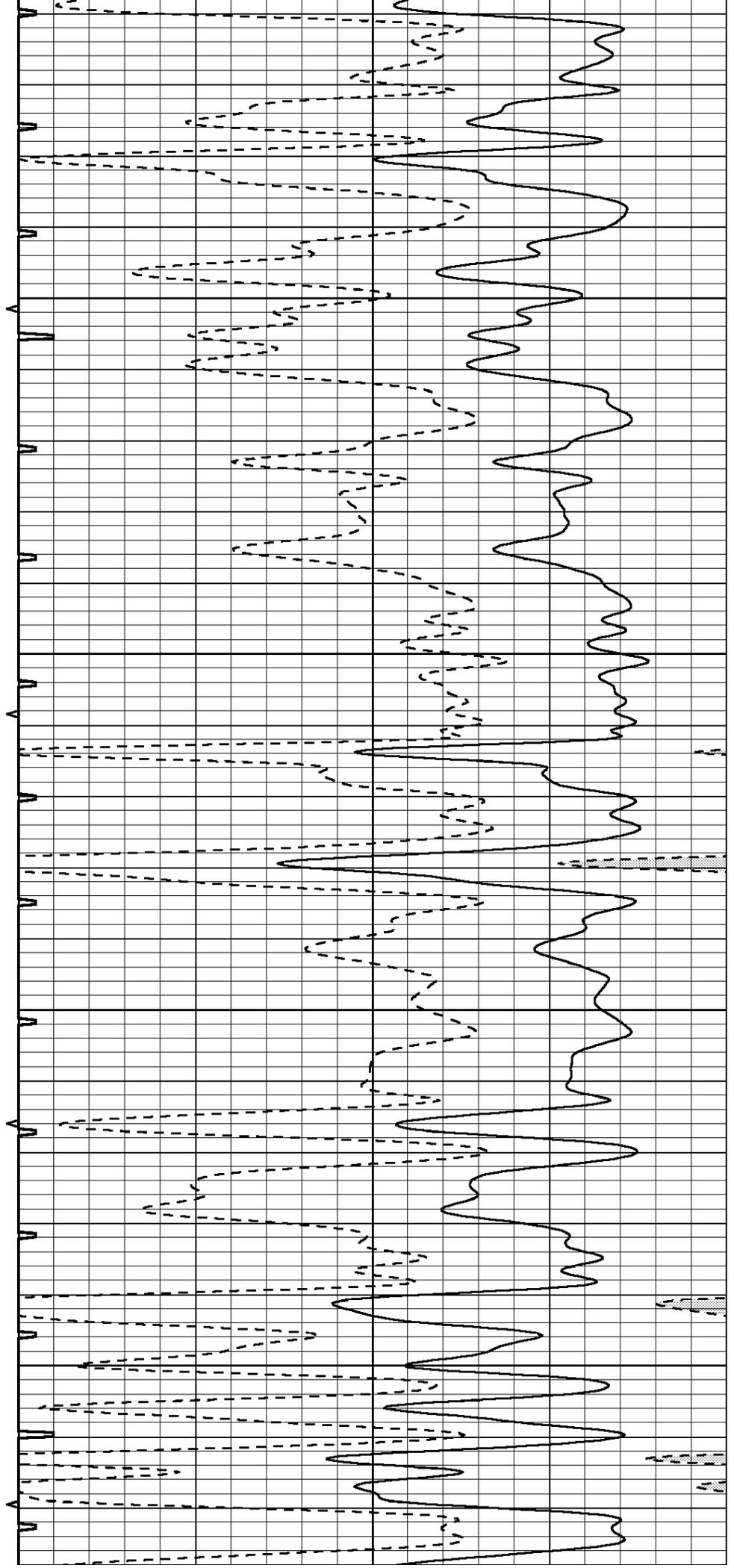


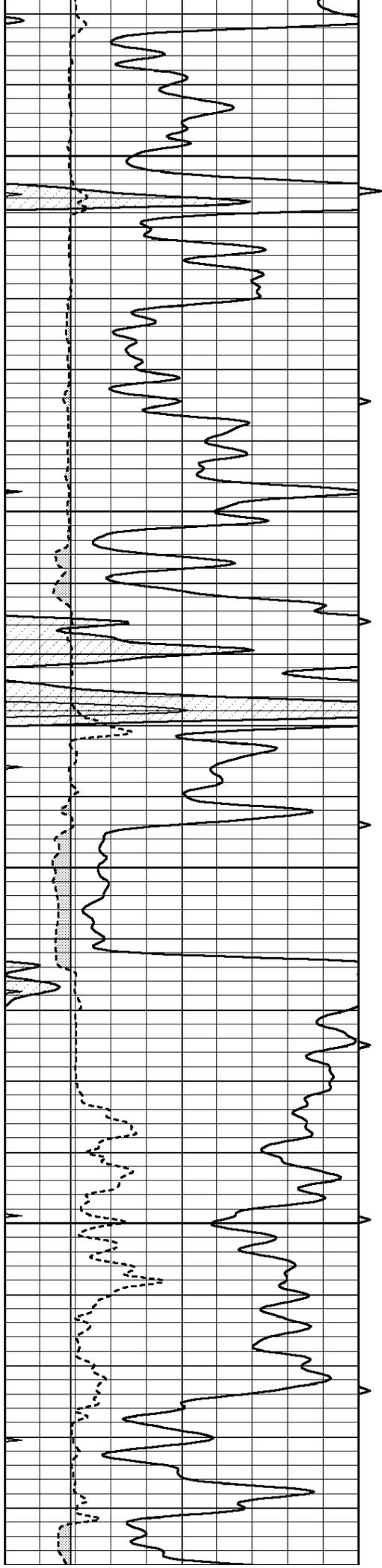
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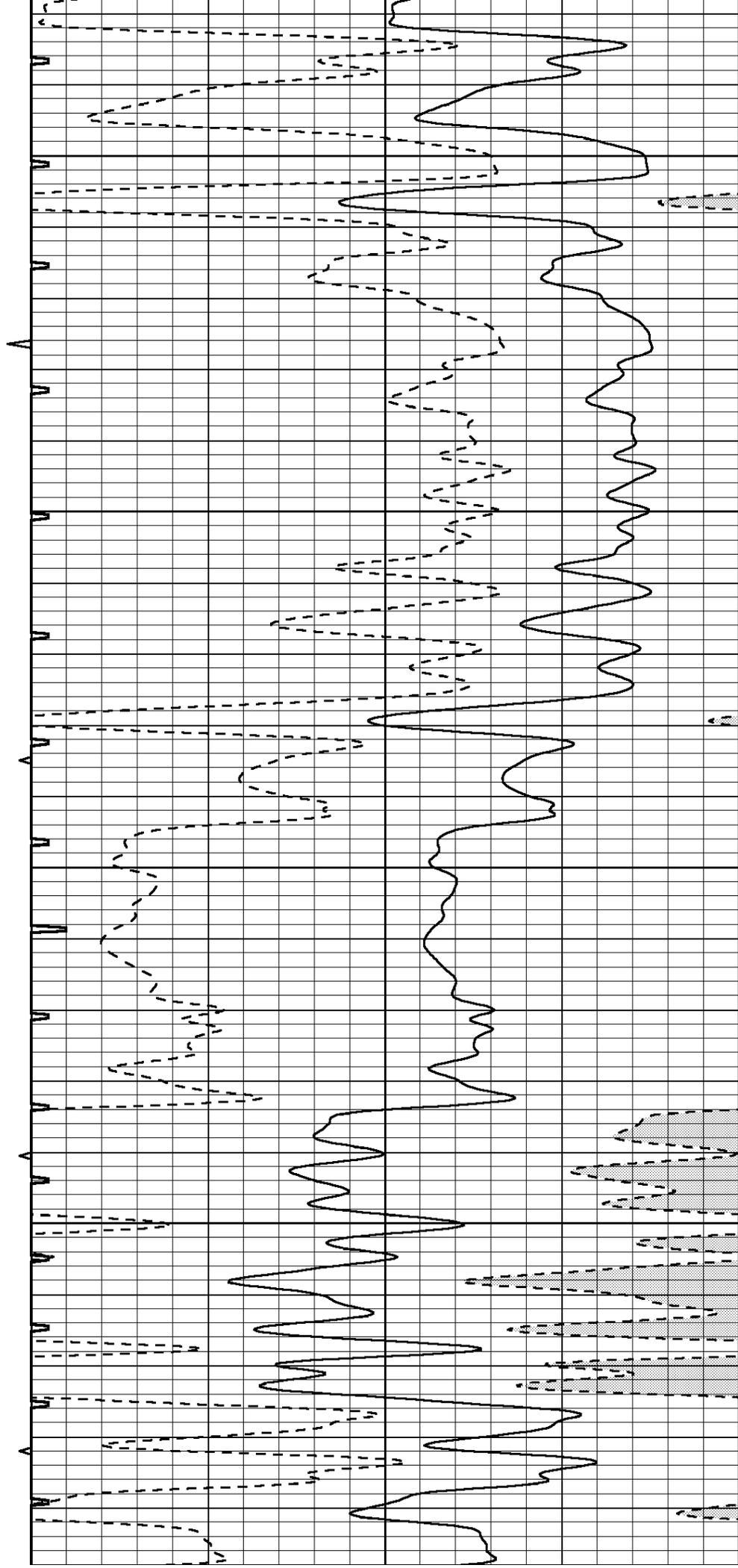


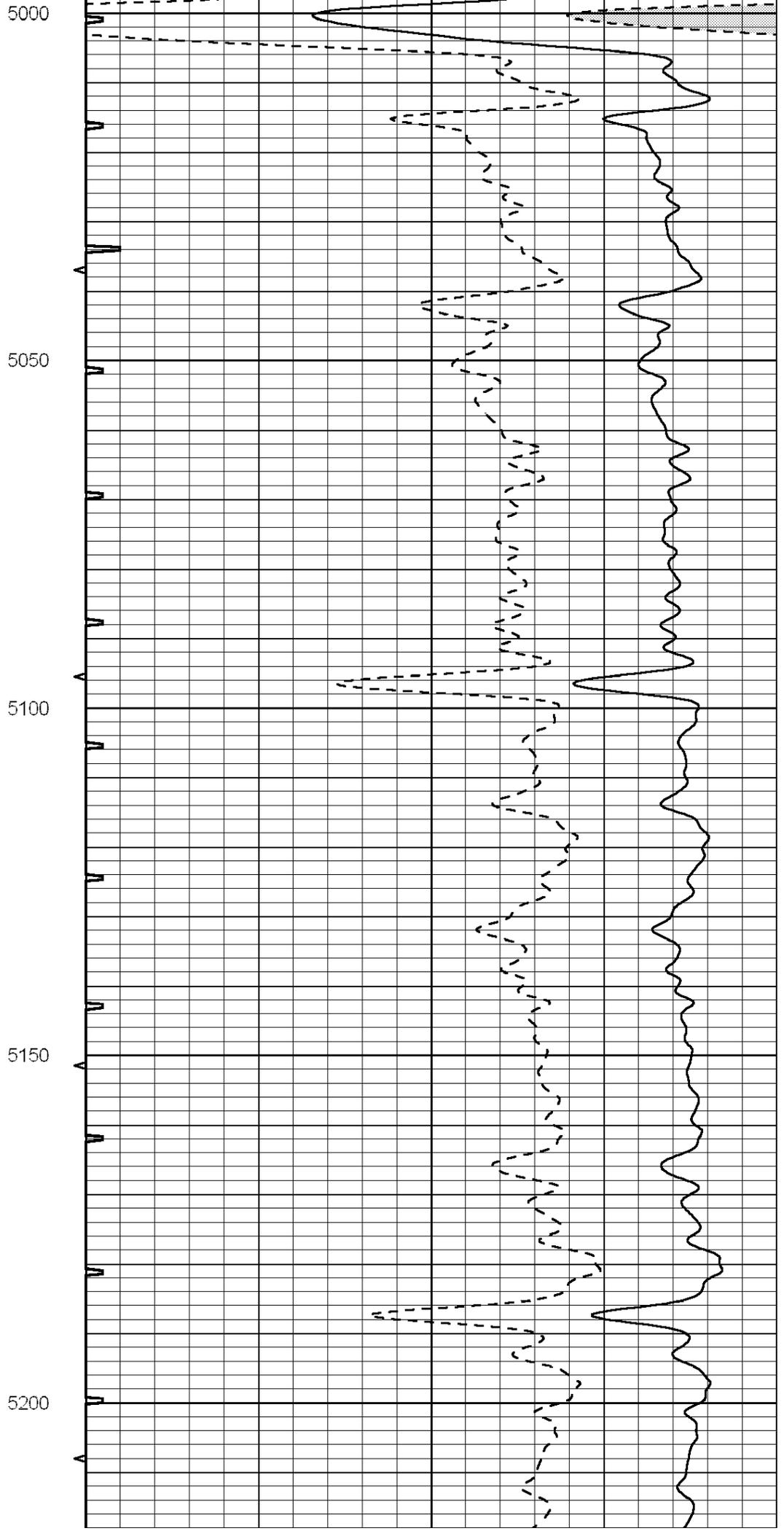
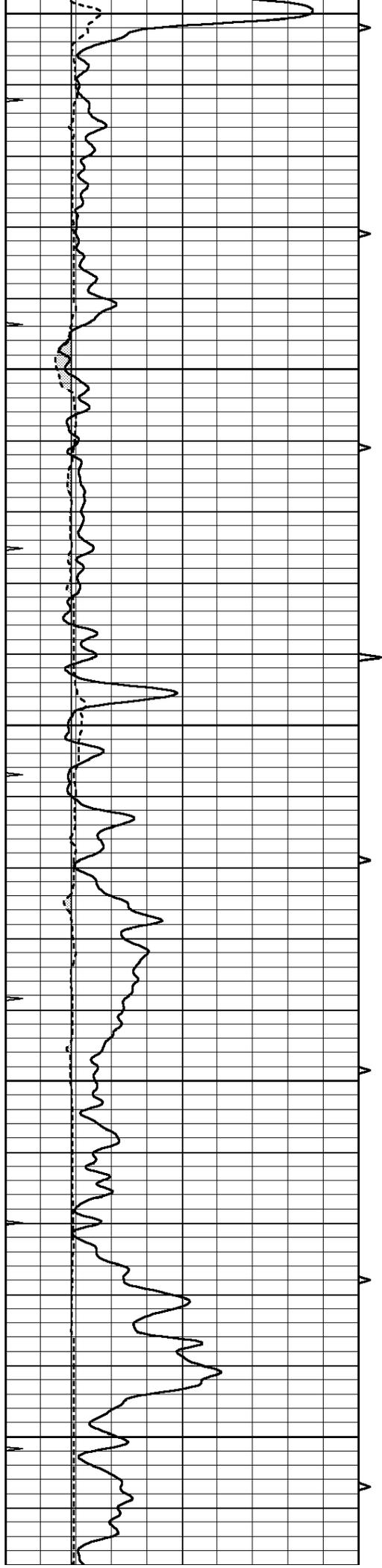
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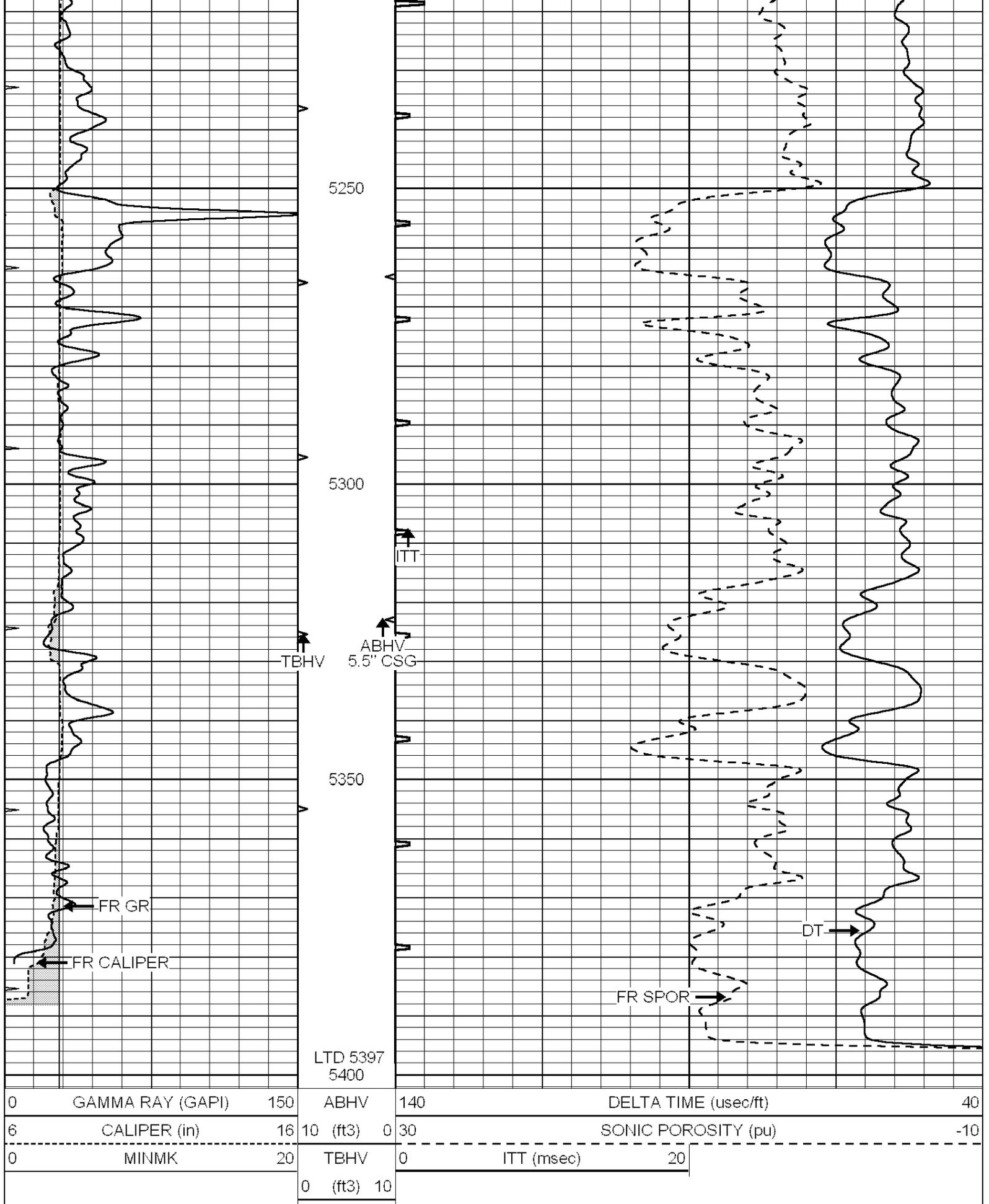
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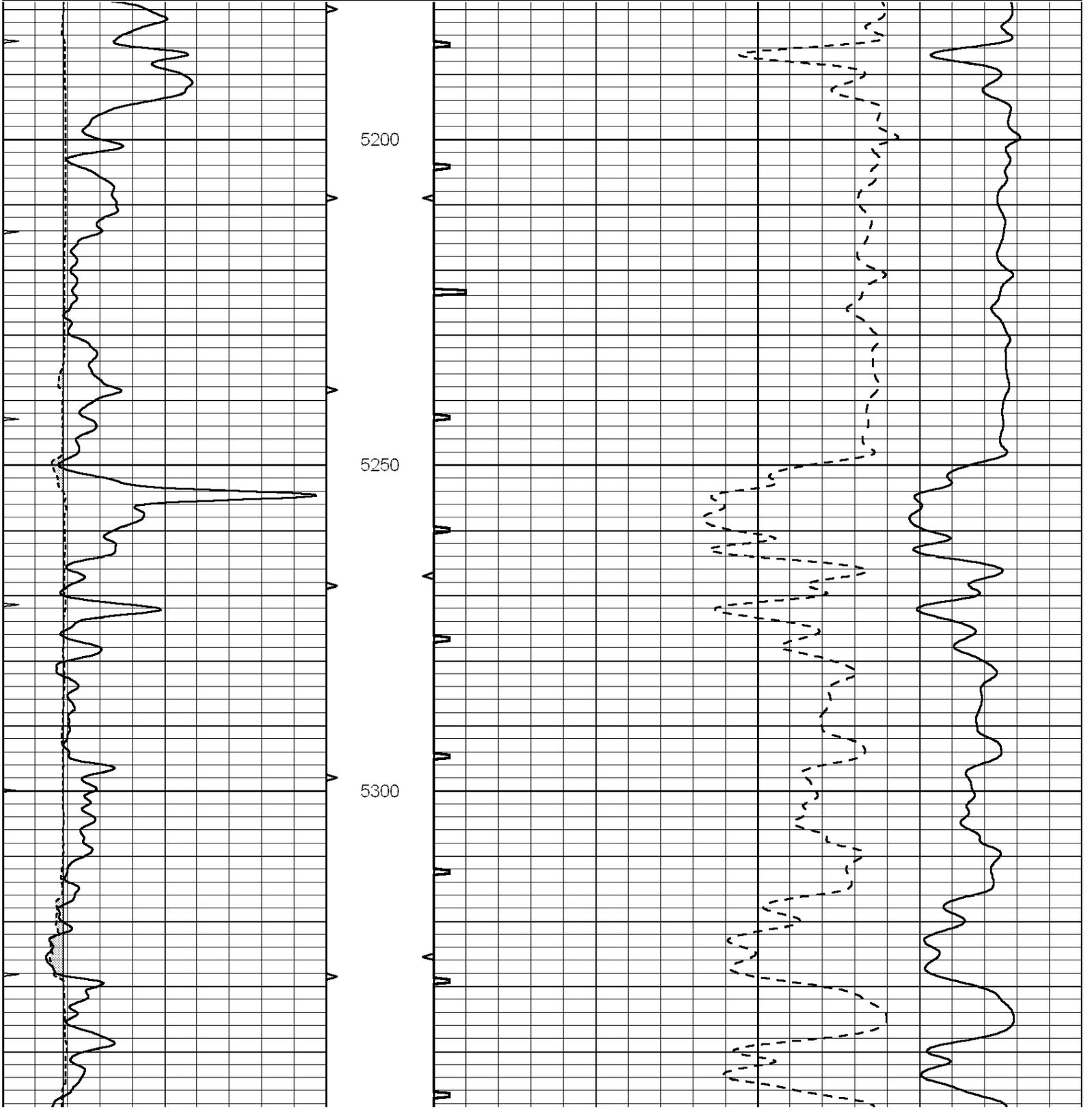


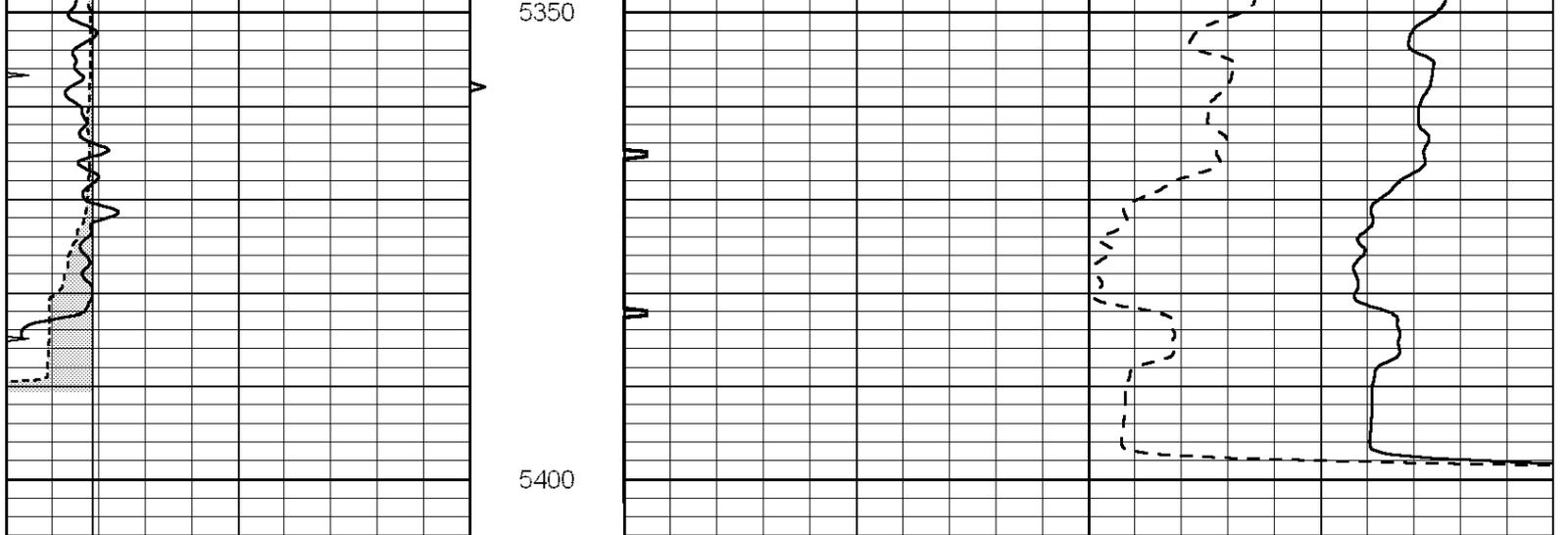




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 Charted by: Depth in Feet scaled 1:240

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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			





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			