



# SONIC LOG

Company RAYMOND OIL COMPANY, INC.  
 Well W&H UNIT #2  
 Field ALAMOTA SOUTH  
 County LANE  
 State KANSAS

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 Field ALAMOTA SOUTH  
 County LANE State KANSAS

Location: API # : 15-101-22601-00-00  
 2314' FSL & 228' FWL  
 SEC 9 TWP 19S RGE 27W  
 Permanent Datum GROUND LEVEL Elevation 2718'  
 Log Measured From KELLY BUSHING 5' A.G.L.  
 Drilling Measured From KELLY BUSHING  
 Other Services CDL/CNL/DIL MEL  
 Elevation K.B. 2723  
 D.F. 2721  
 G.L. 2718

Date	02/07/18
Run Number	TWO
Depth Driller	4770
Depth Logger	4773
Bottom Logged Interval	4764
Top Log Interval	00
Casing Driller	8 5/8" @ 260
Casing Logger	260
Bit Size	7 7/8"
Type Fluid in Hole	CHEMICAL MUD
Density / Viscosity	9.25/50
pH / Fluid Loss	9.0/8.8
Source of Sample	FLOWLINE
Rm @ Meas. Temp	1.3@44
Rmt @ Meas. Temp	.98@44
Rmc @ Meas. Temp	1.57@44
Source of Rmf / Rmc	MEASURED
Rm @ BHT	.46@123
Time Circulation Stopped	2 HOURS
Time Logger on Bottom	///
Maximum Recorded Temperature	123F
Equipment Number	4010
Location	HAYS, KANSAS
Recorded By	GUS PFANENSTIEL
Witnessed By	KIM SHOEMAKER

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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 ELI WIRELINE, HAYS, KS. (785) 628-6395

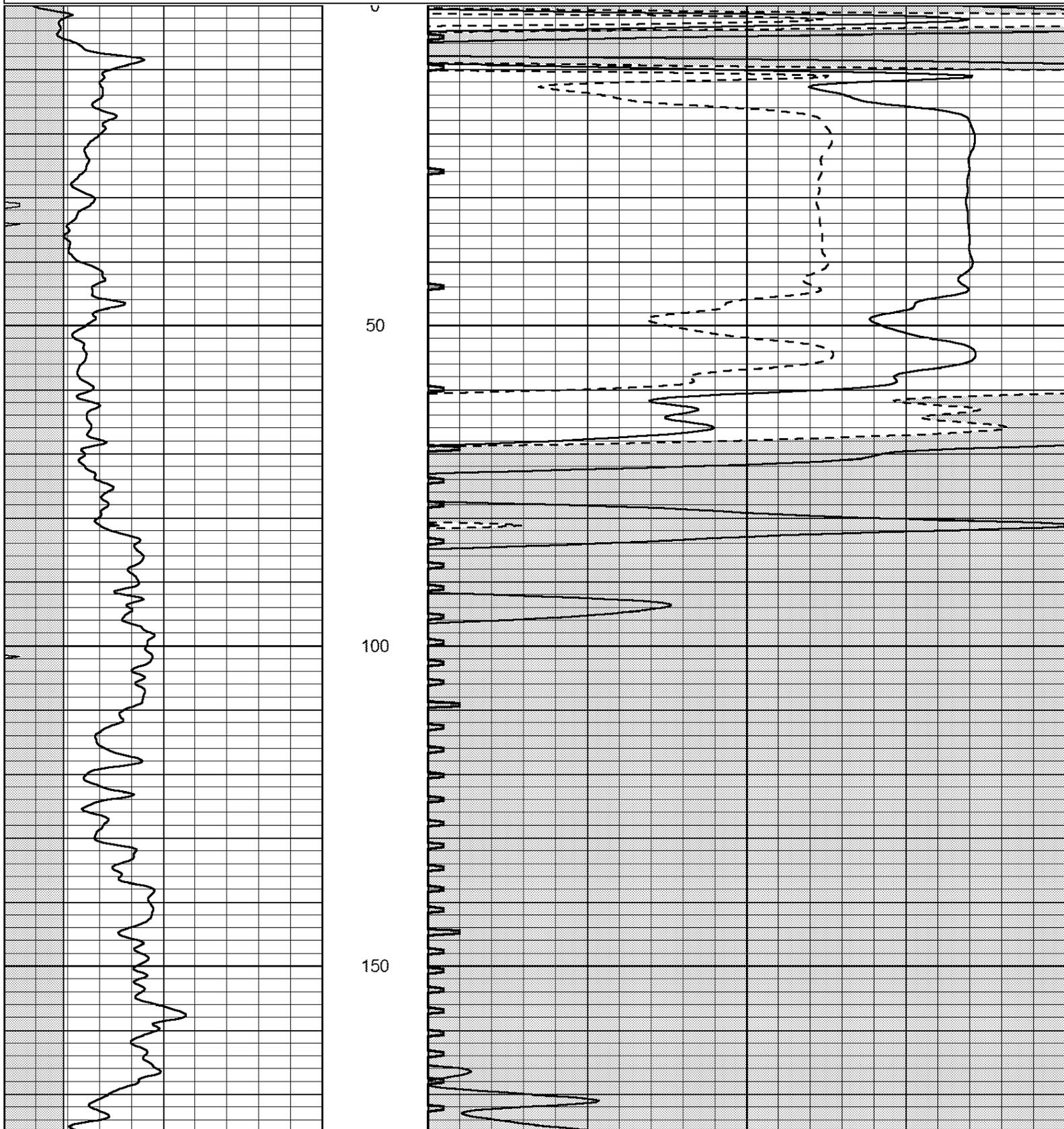
DIRECTIONS  
 WEST OF NESS CITY TO TURKEY RED RD,  
 SOUTH 4 MILES, WEST 3/4 MILE  
 SOUTH INTO.

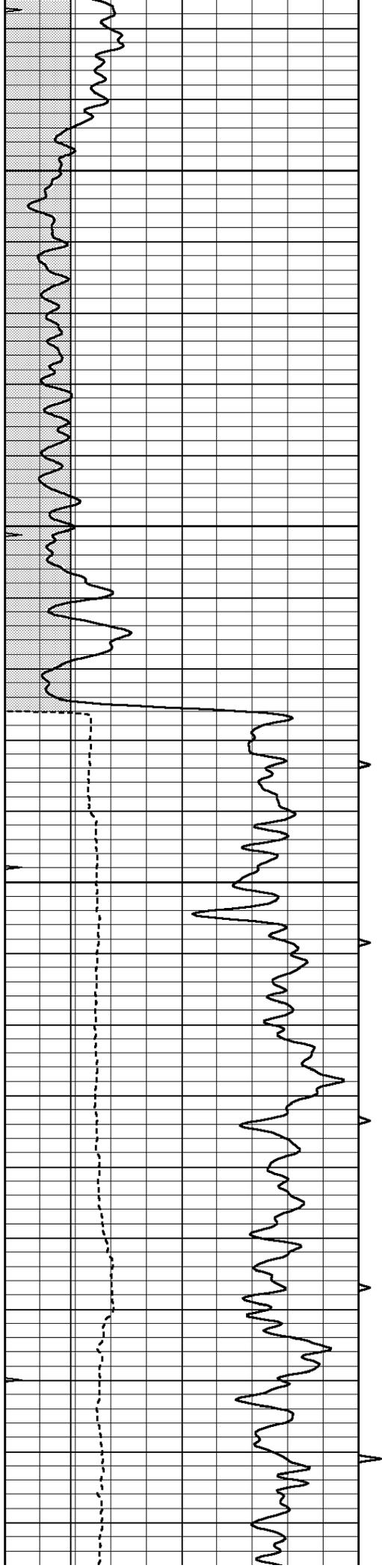


# MAIN PASS

Database File: 2405ddn.db  
 Dataset Pathname: pass5.1  
 Presentation Format: \_slt  
 Dataset Creation: Wed Feb 07 08:32:37 2018  
 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			



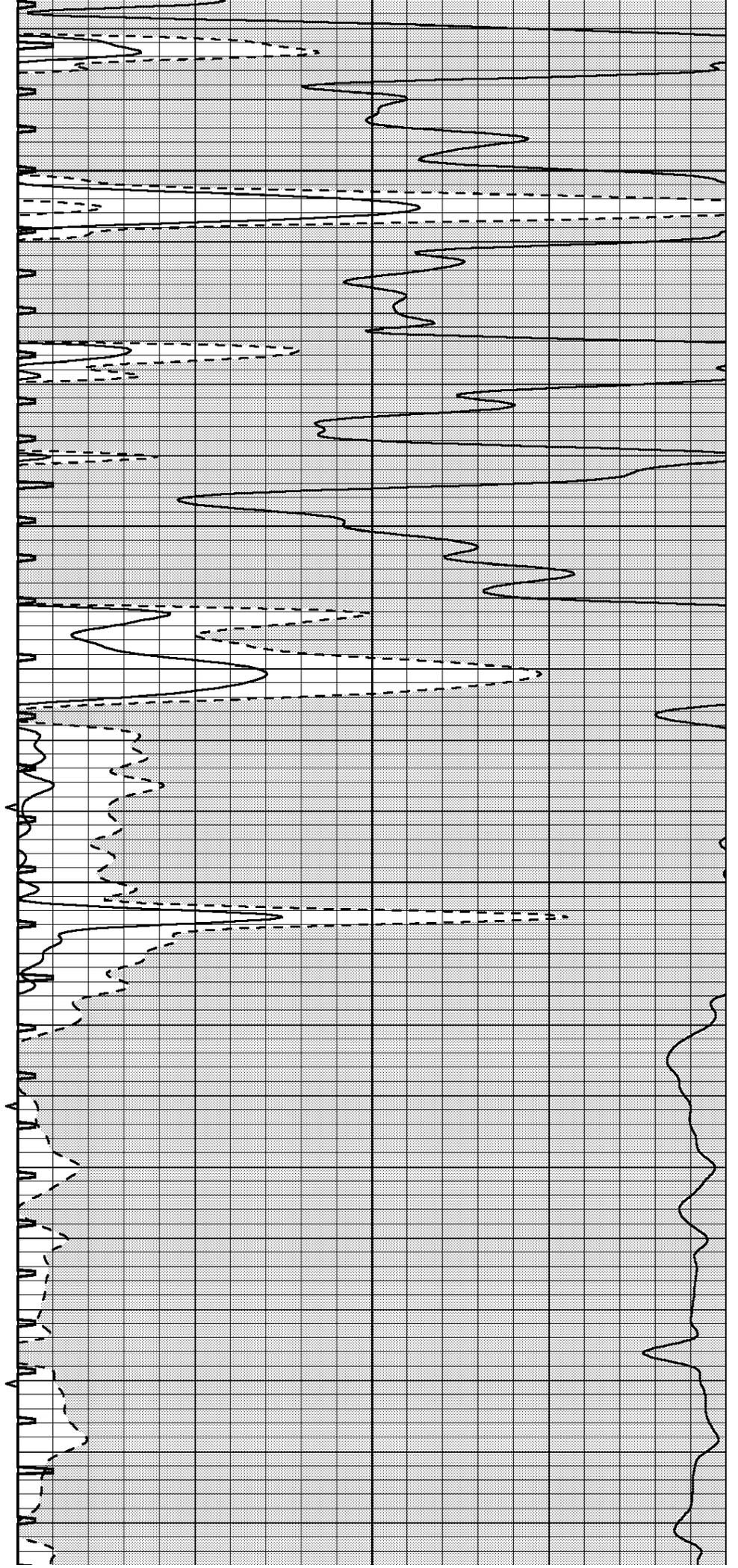


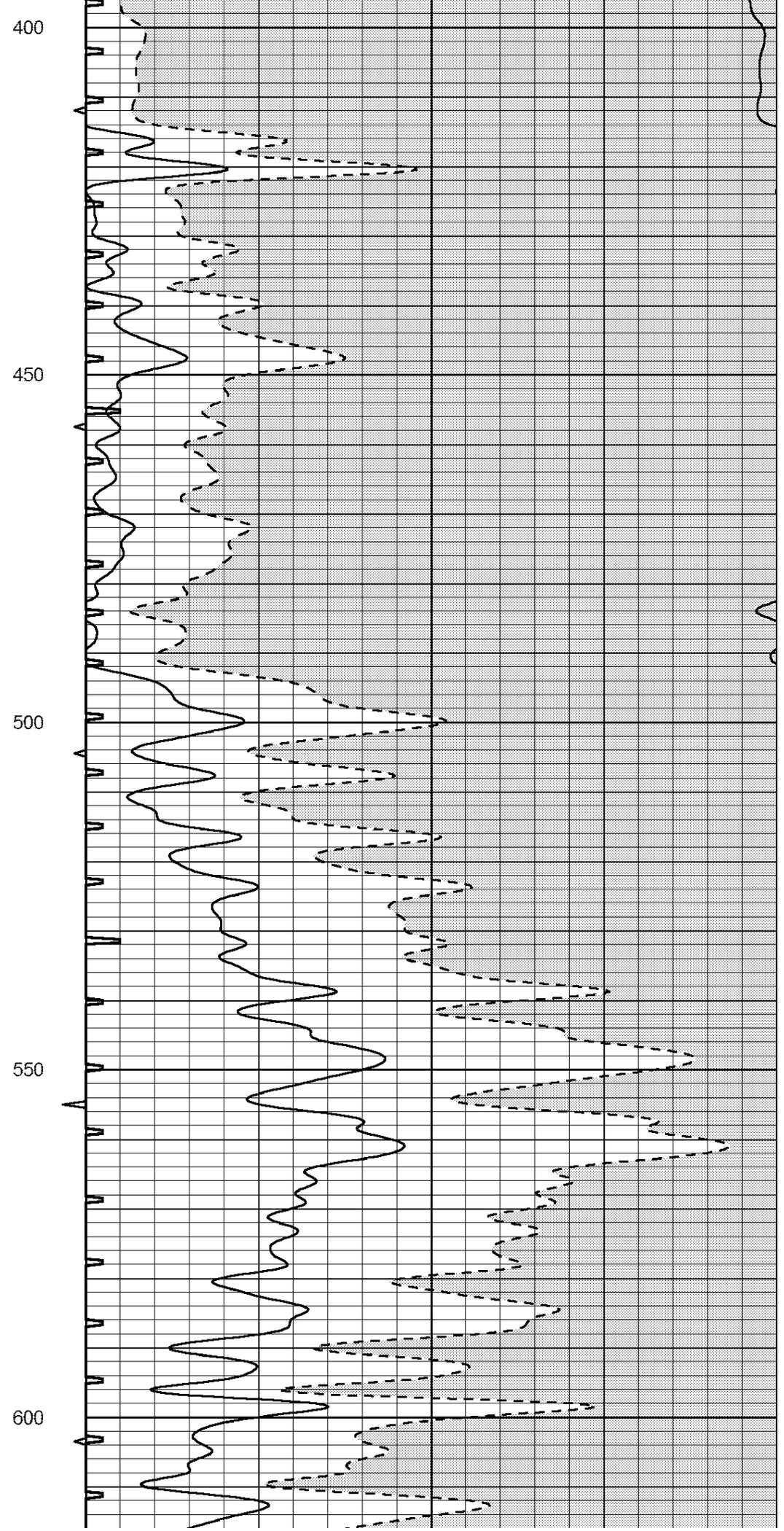
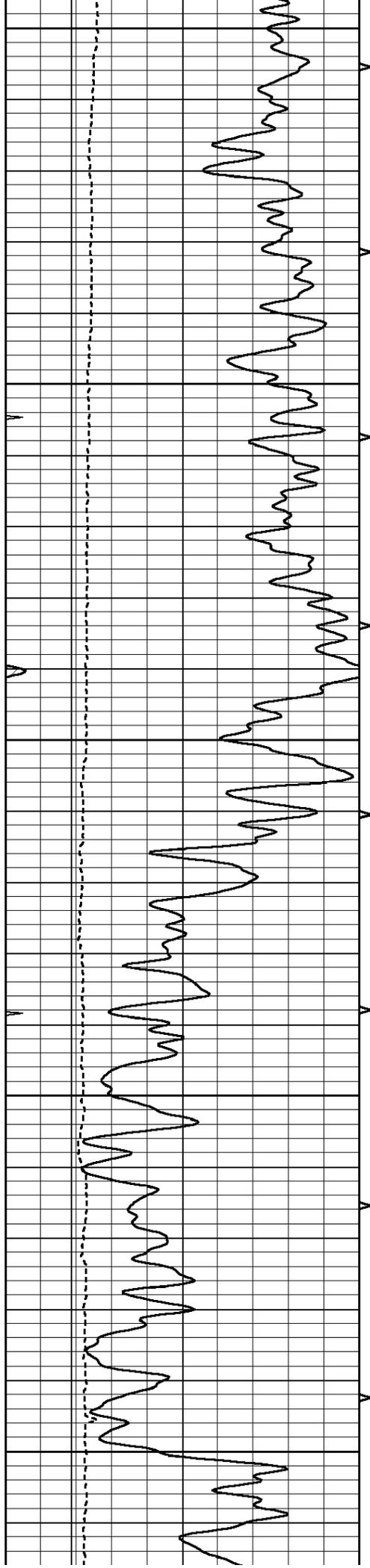
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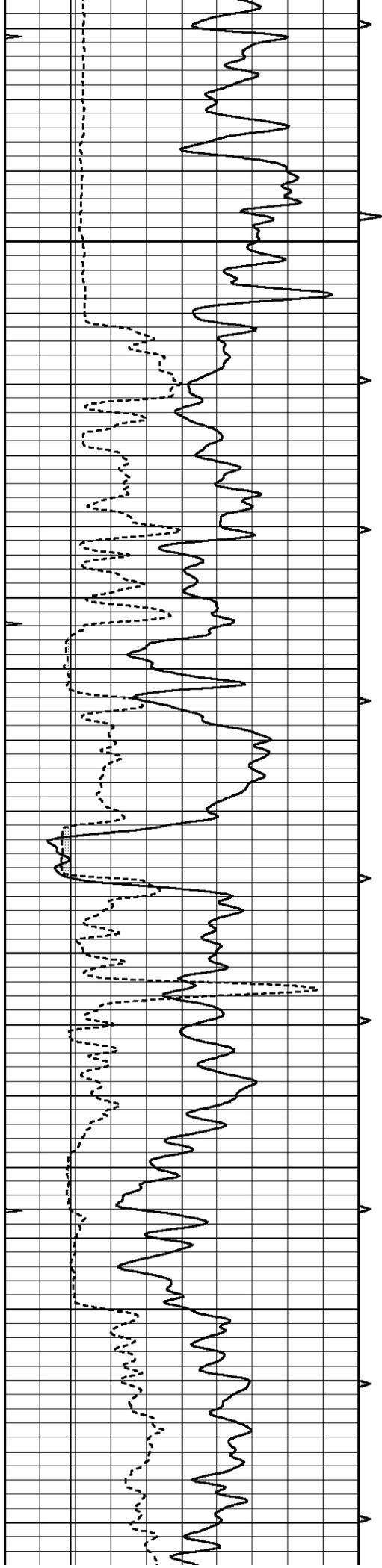
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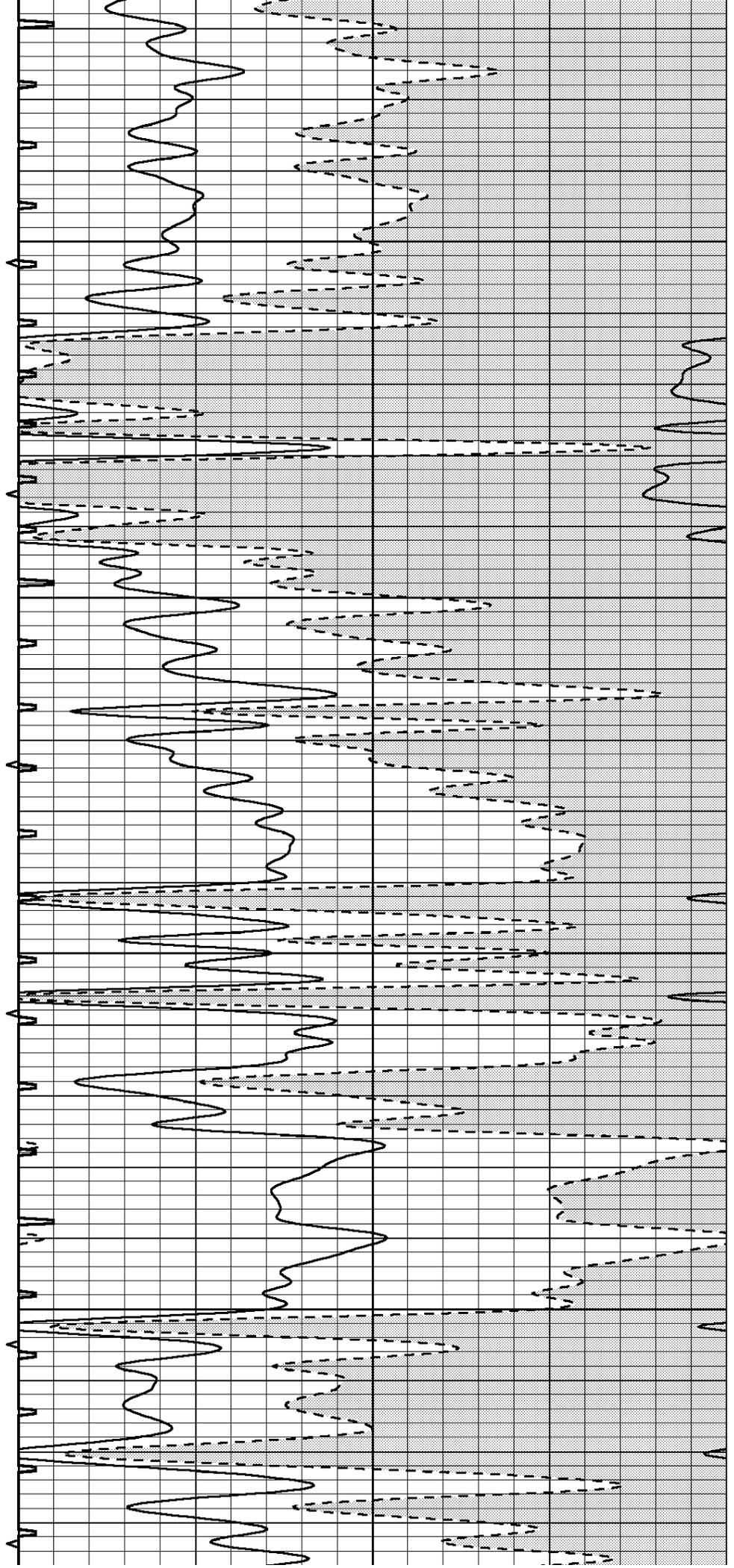


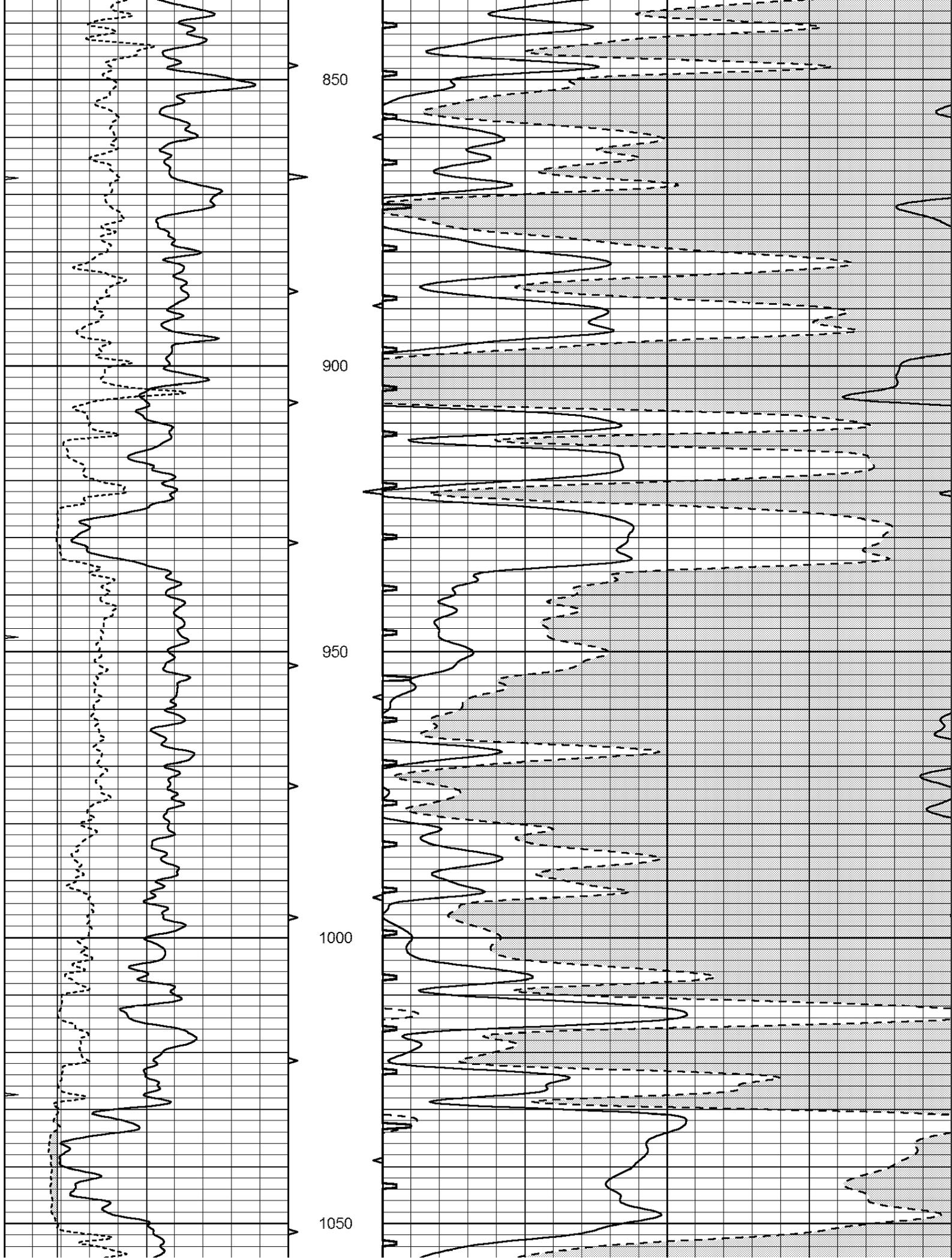
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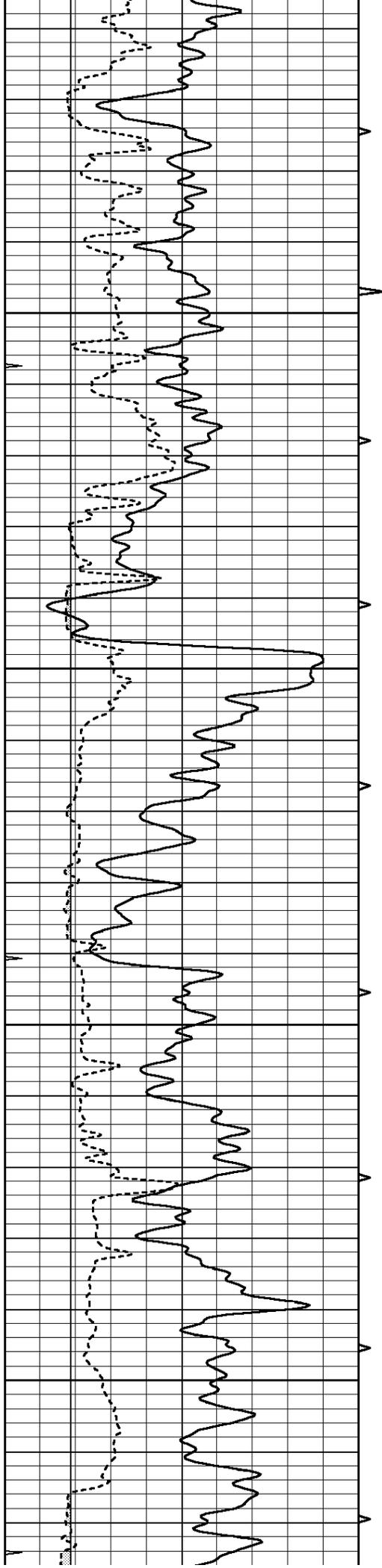
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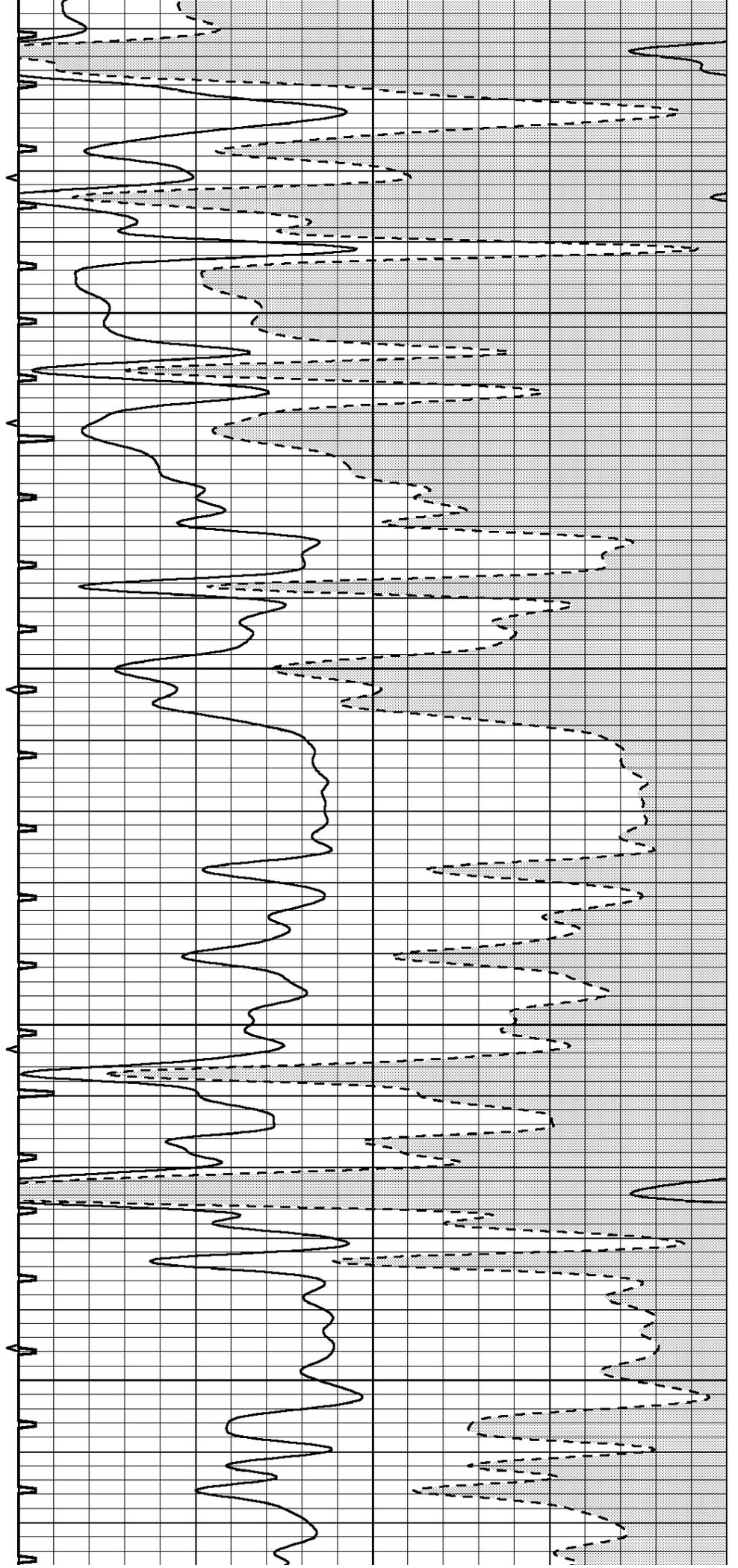


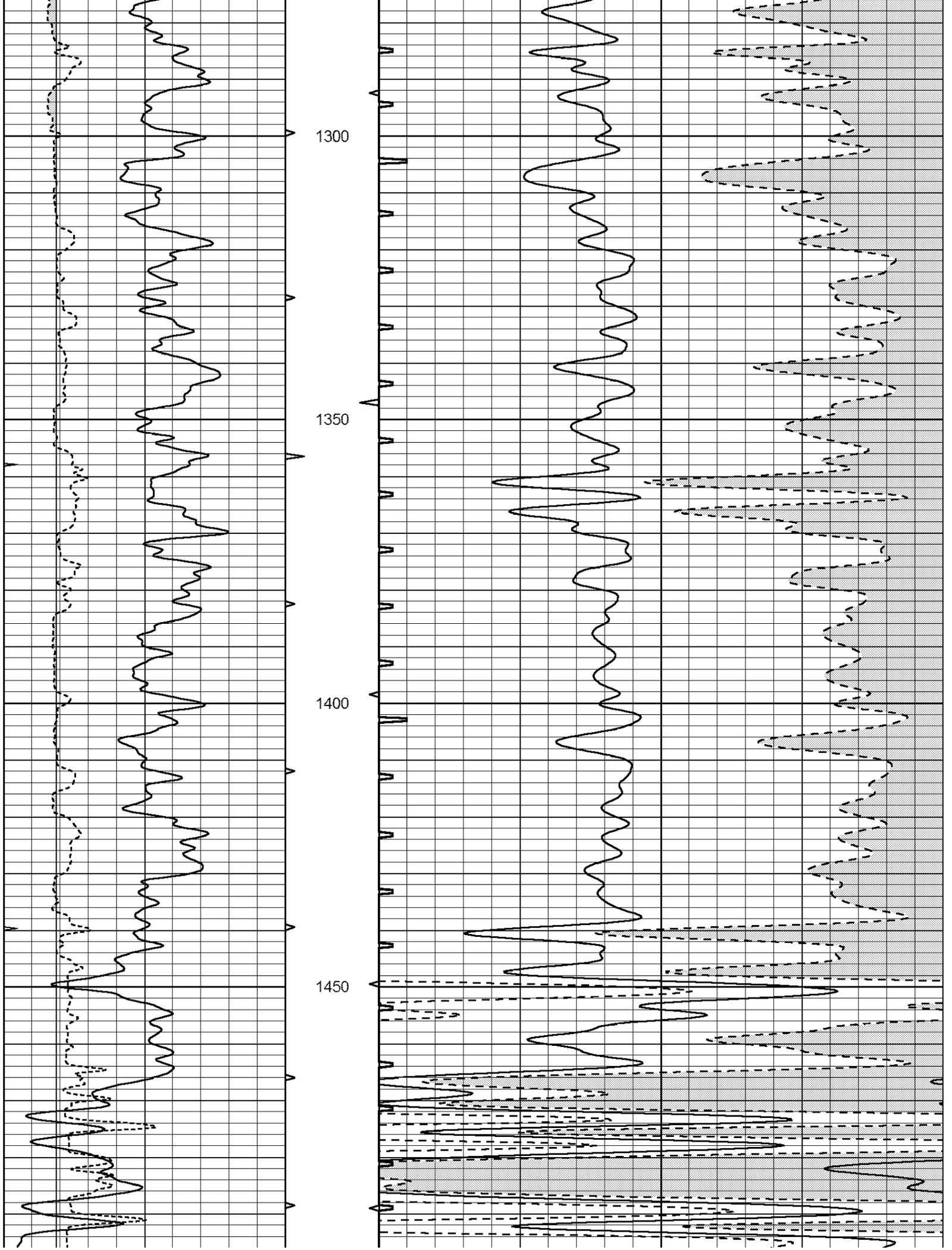
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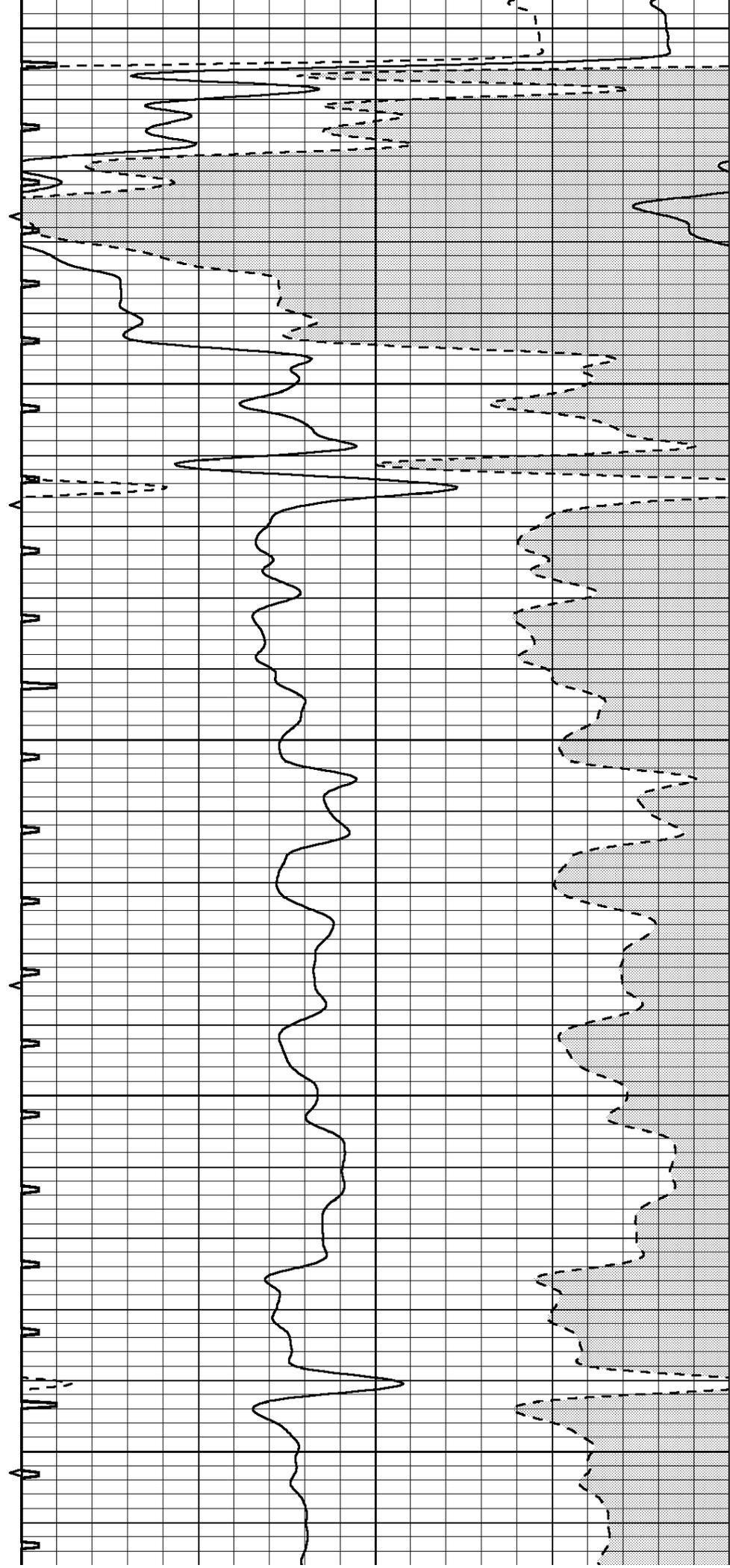
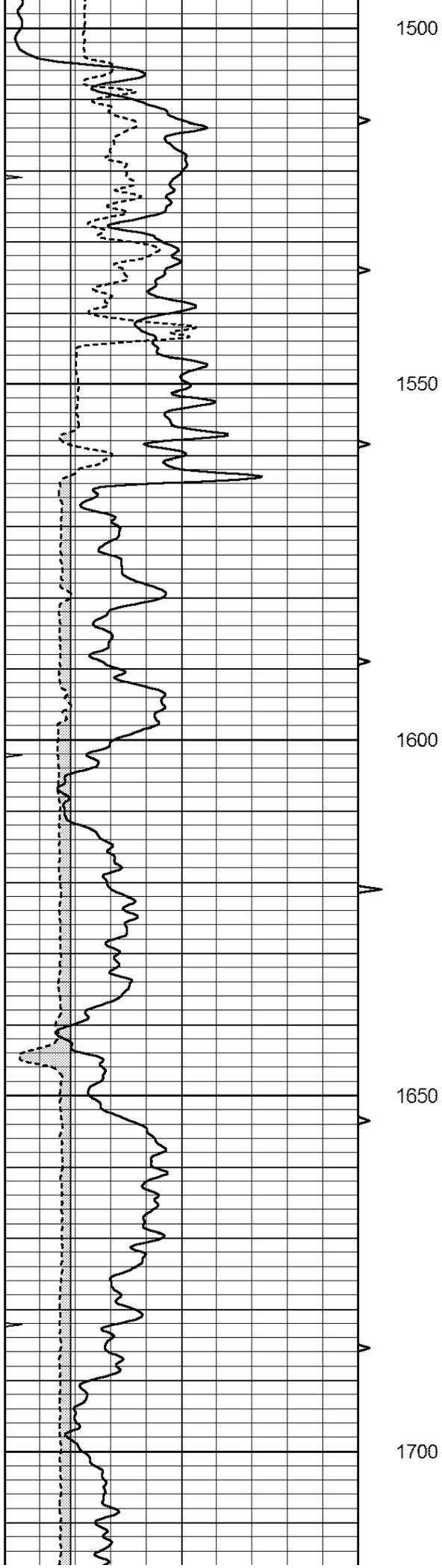
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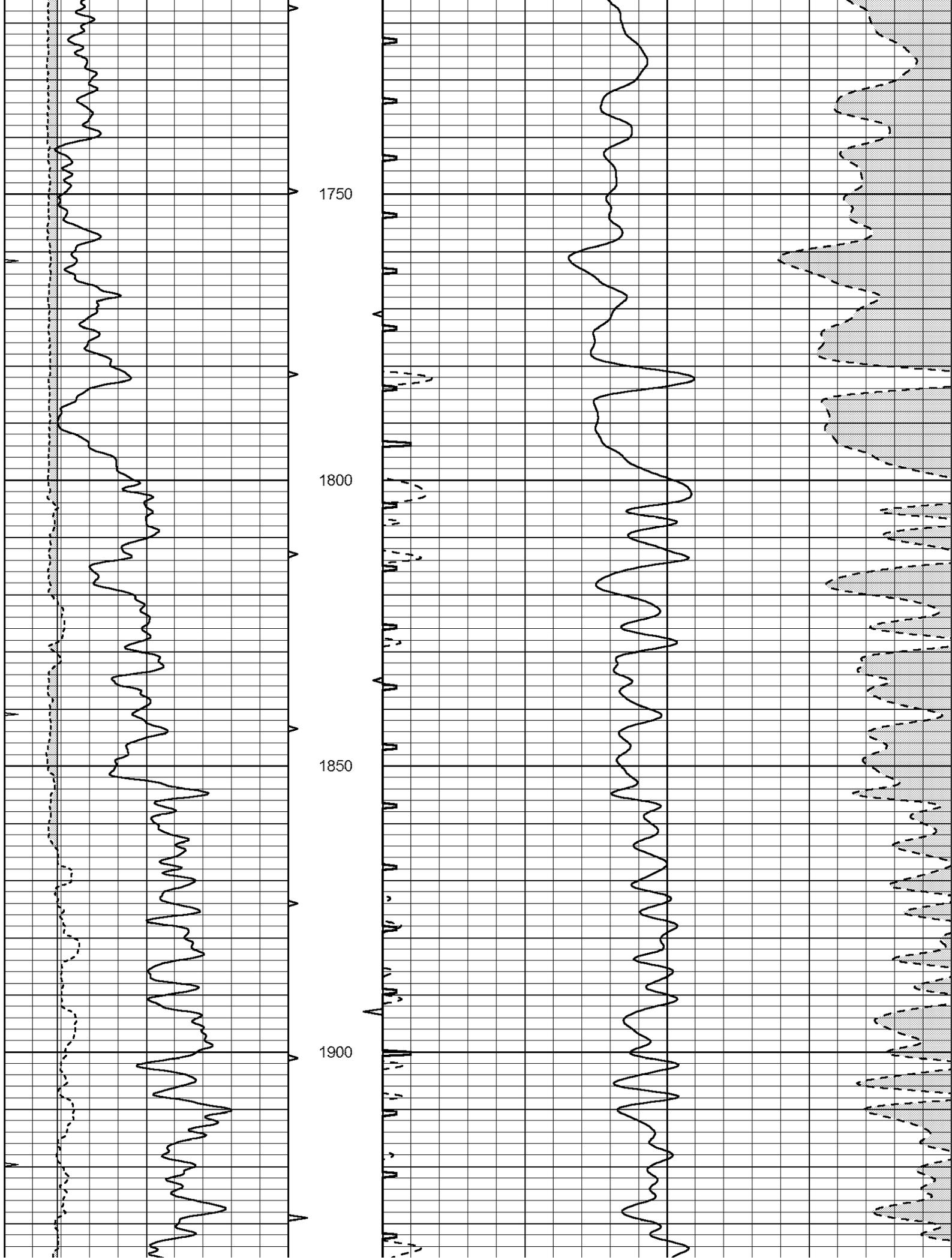
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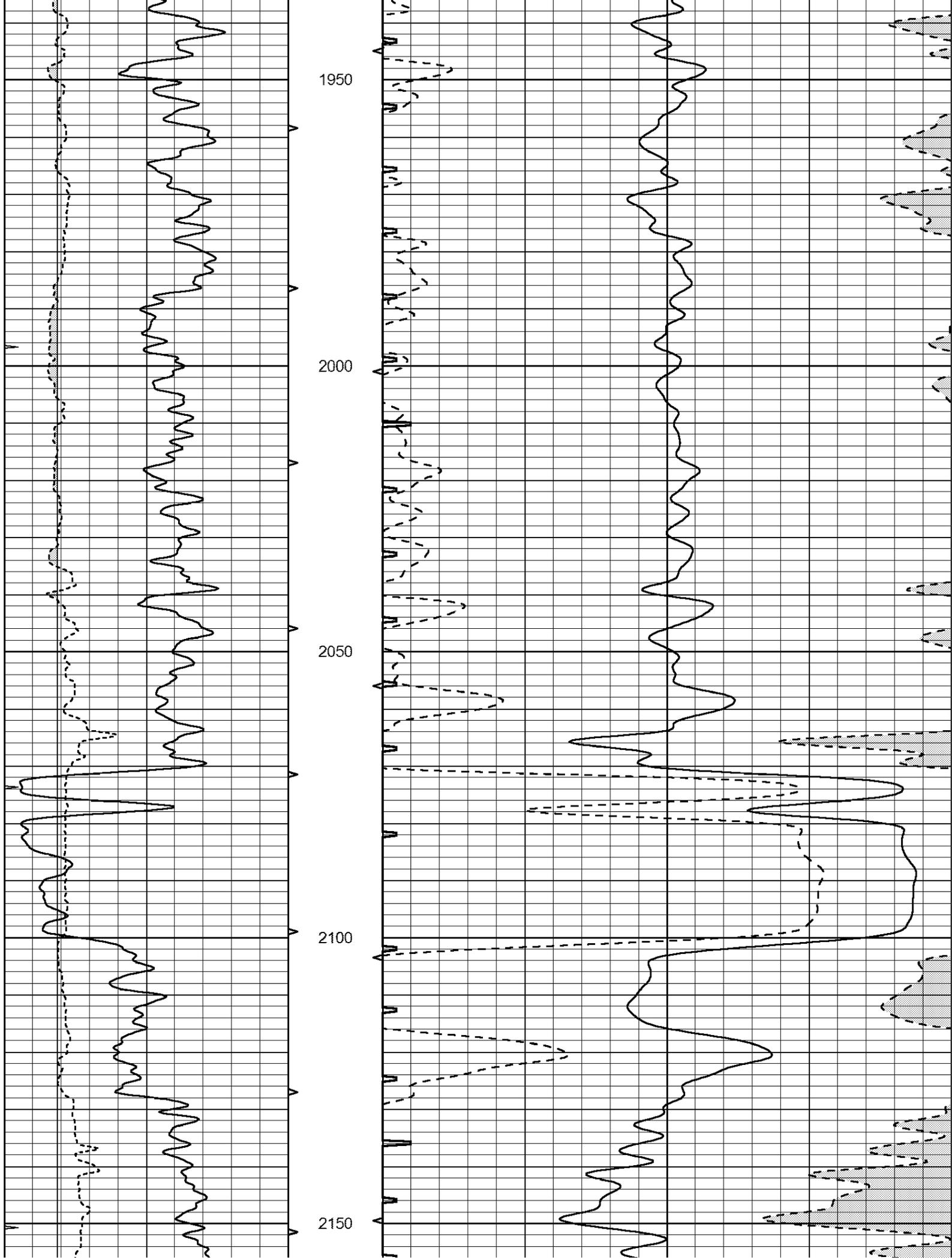
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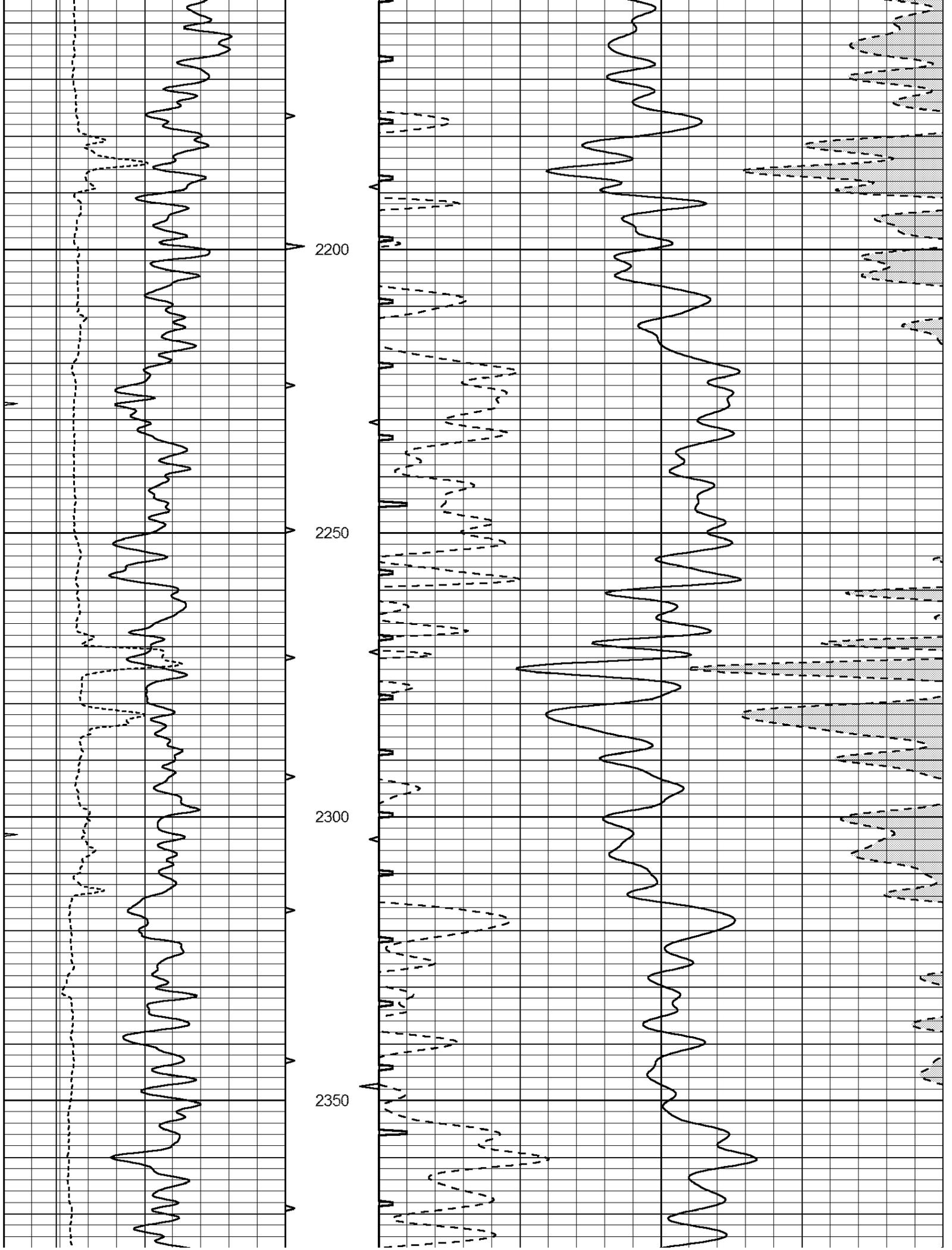


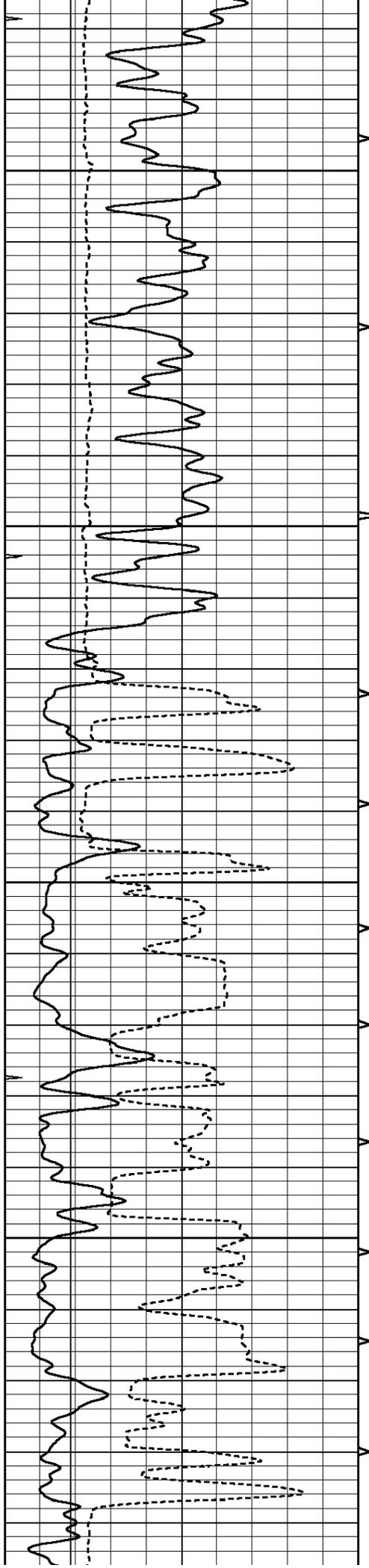










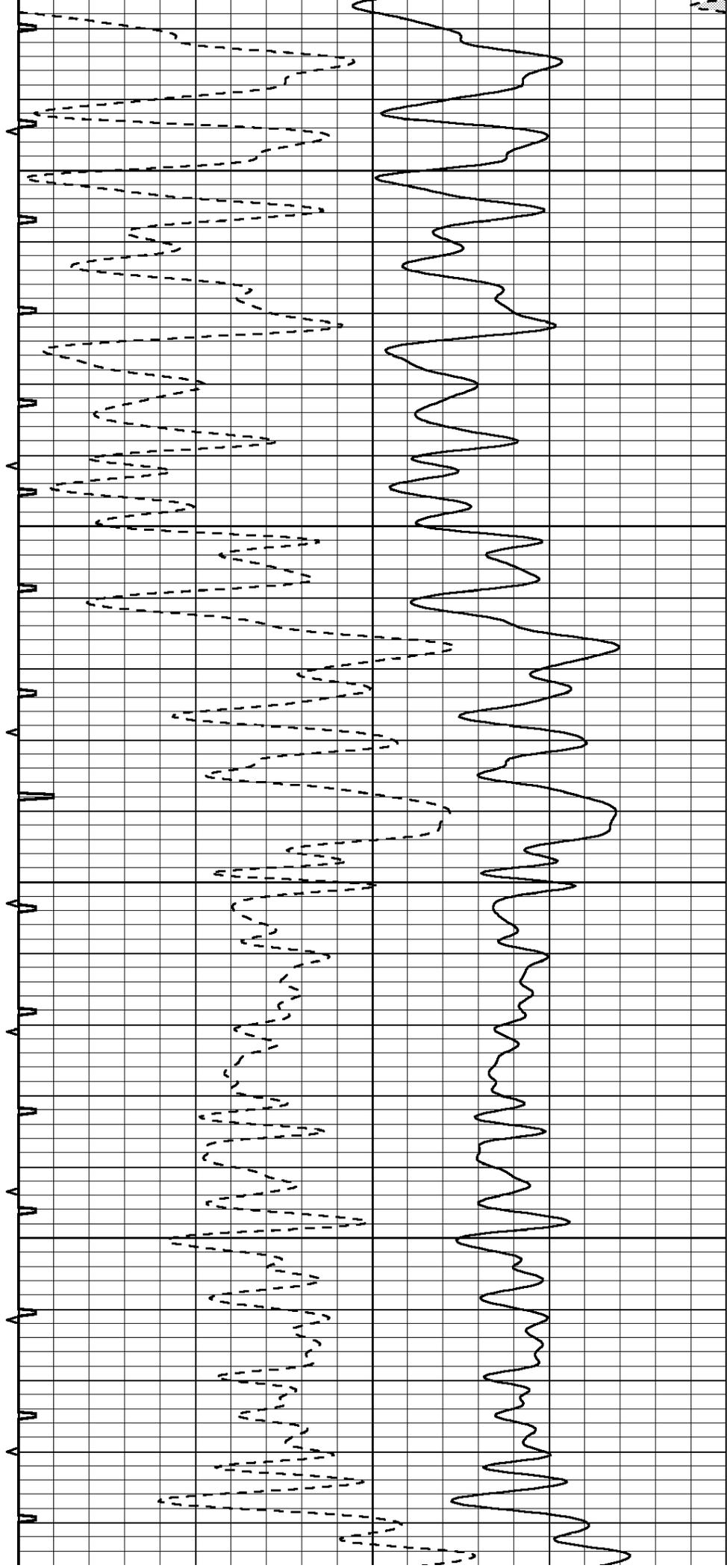


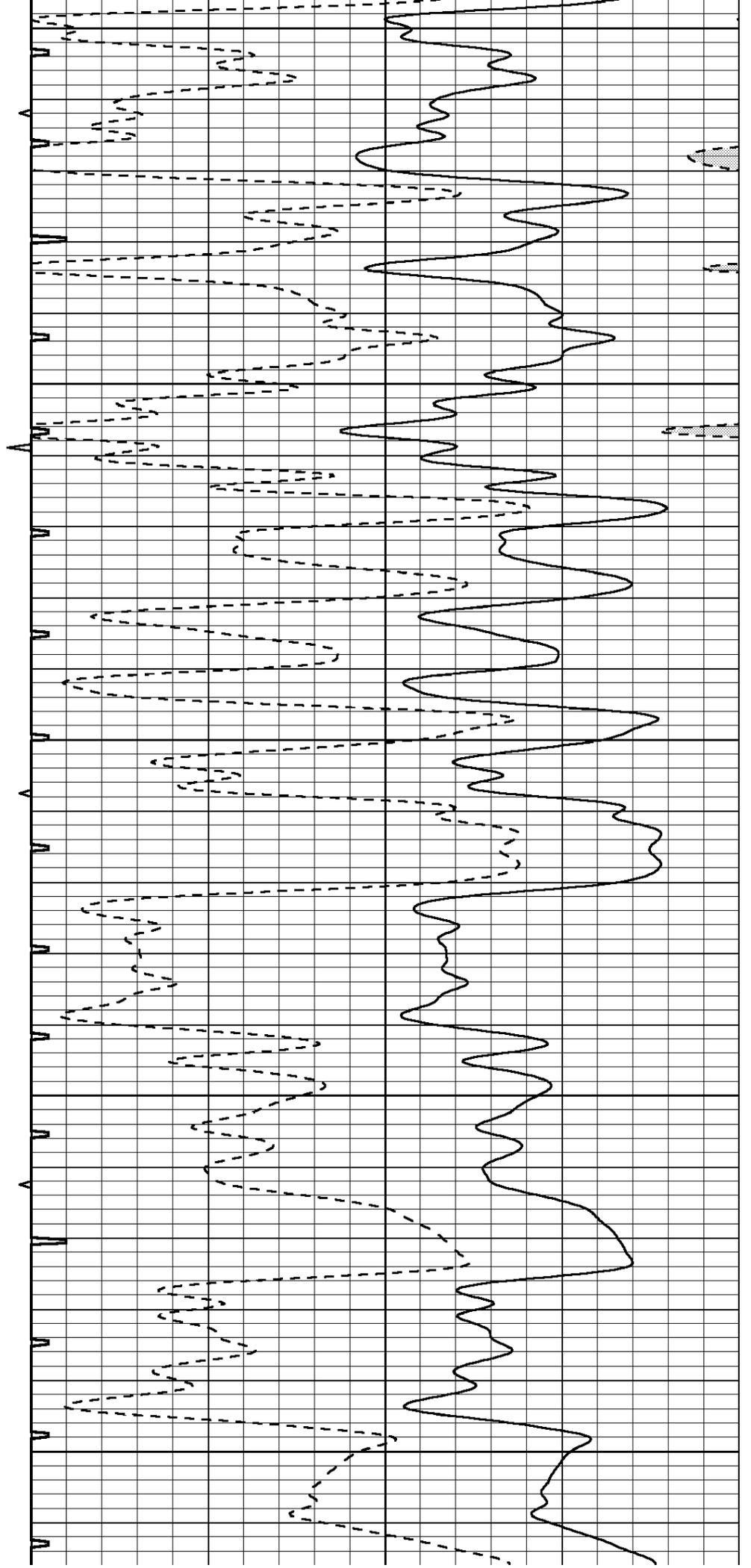
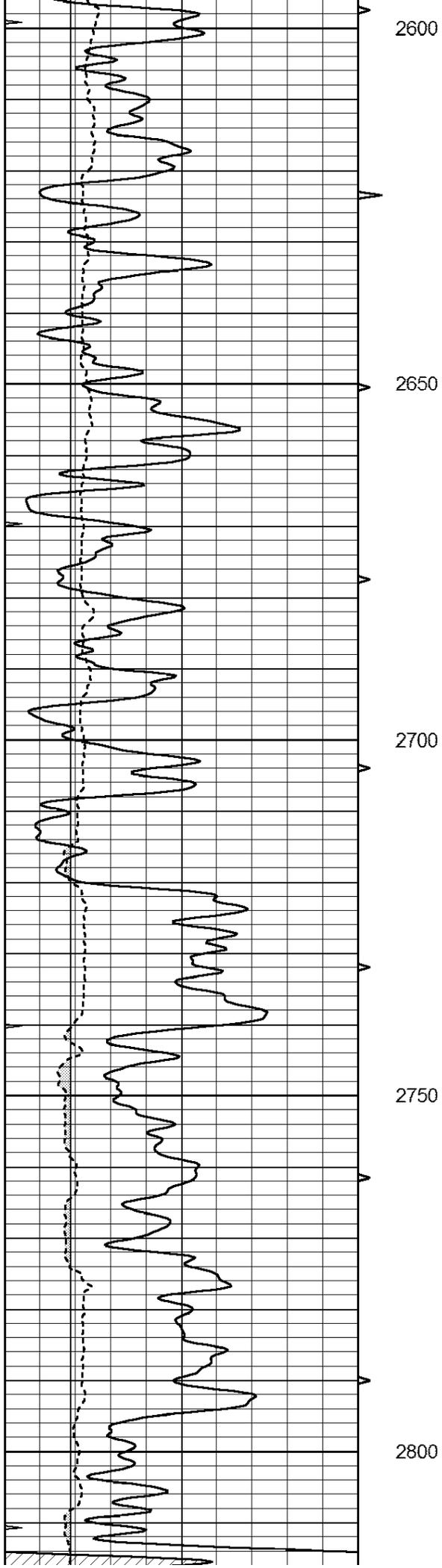
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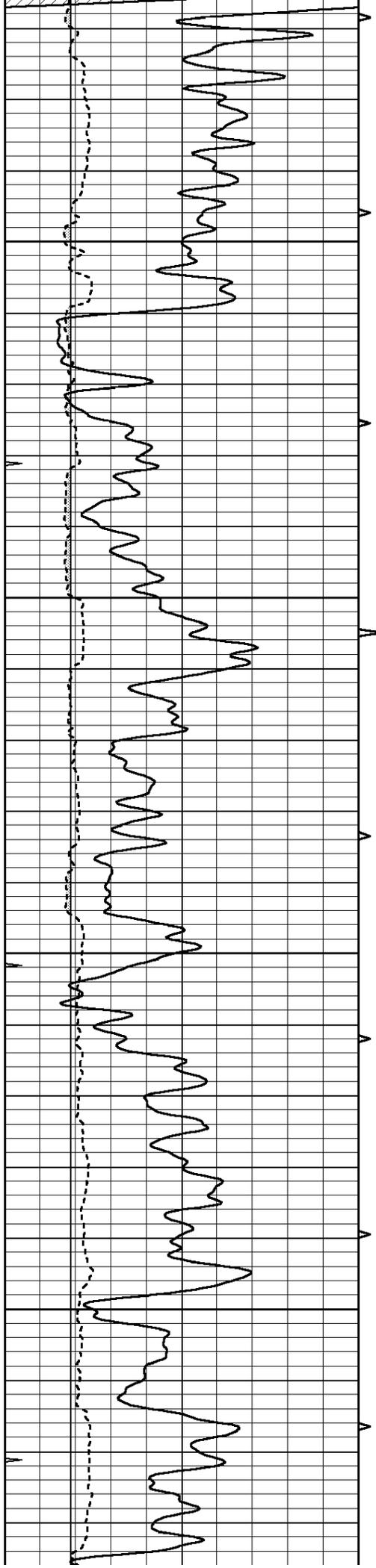
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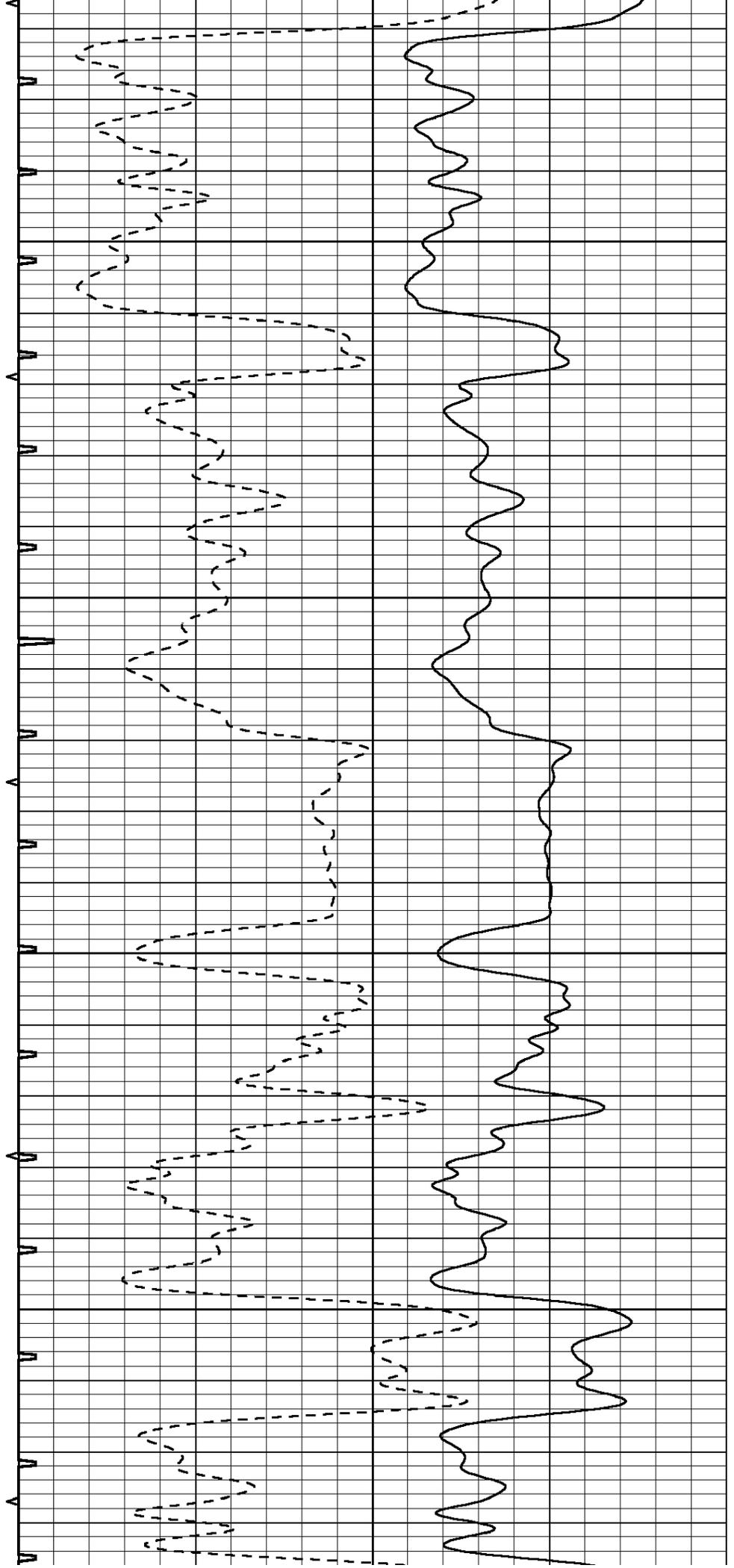


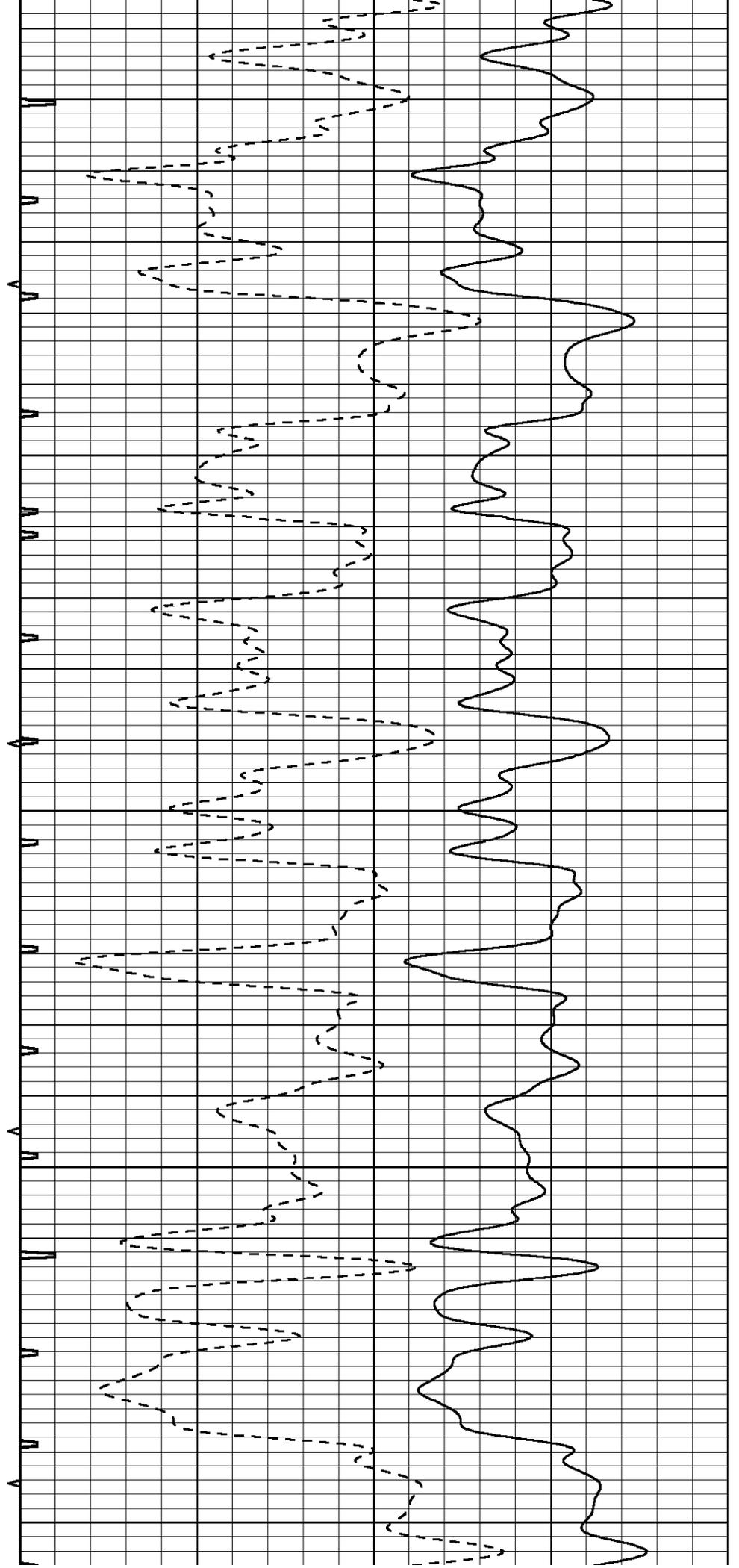
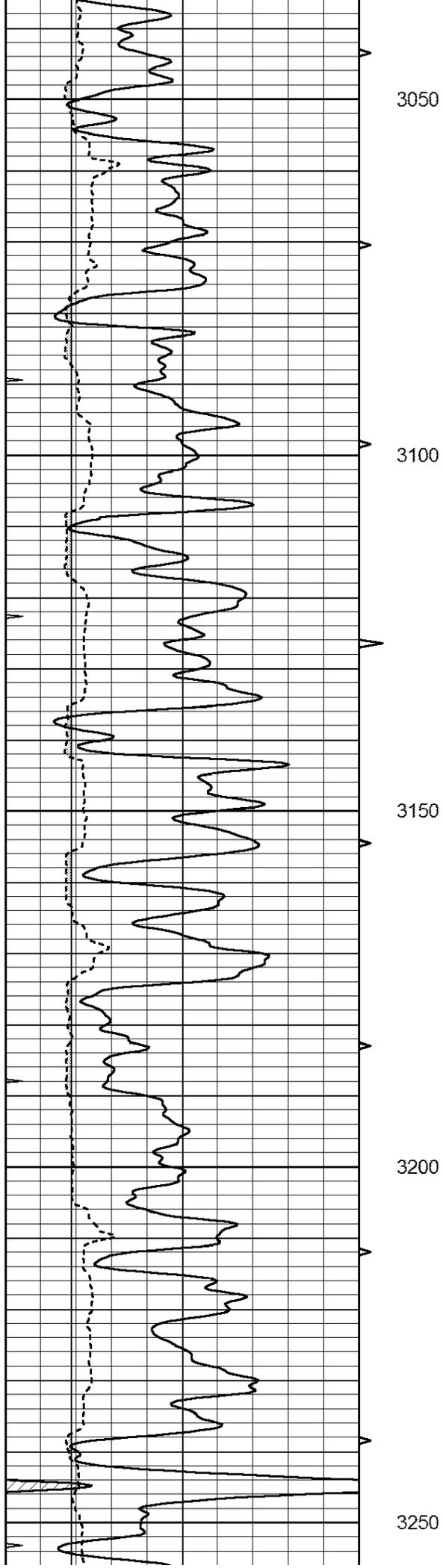
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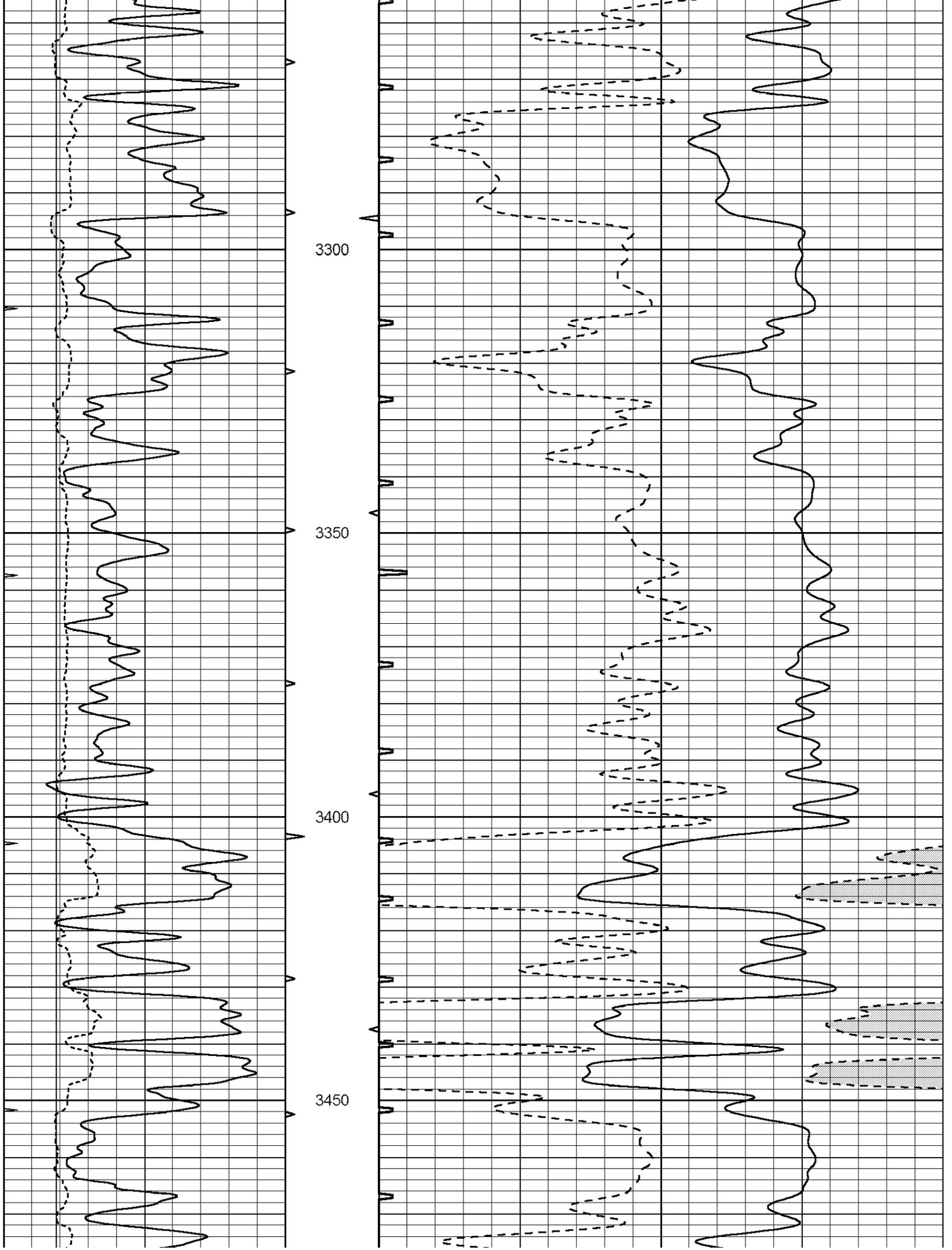
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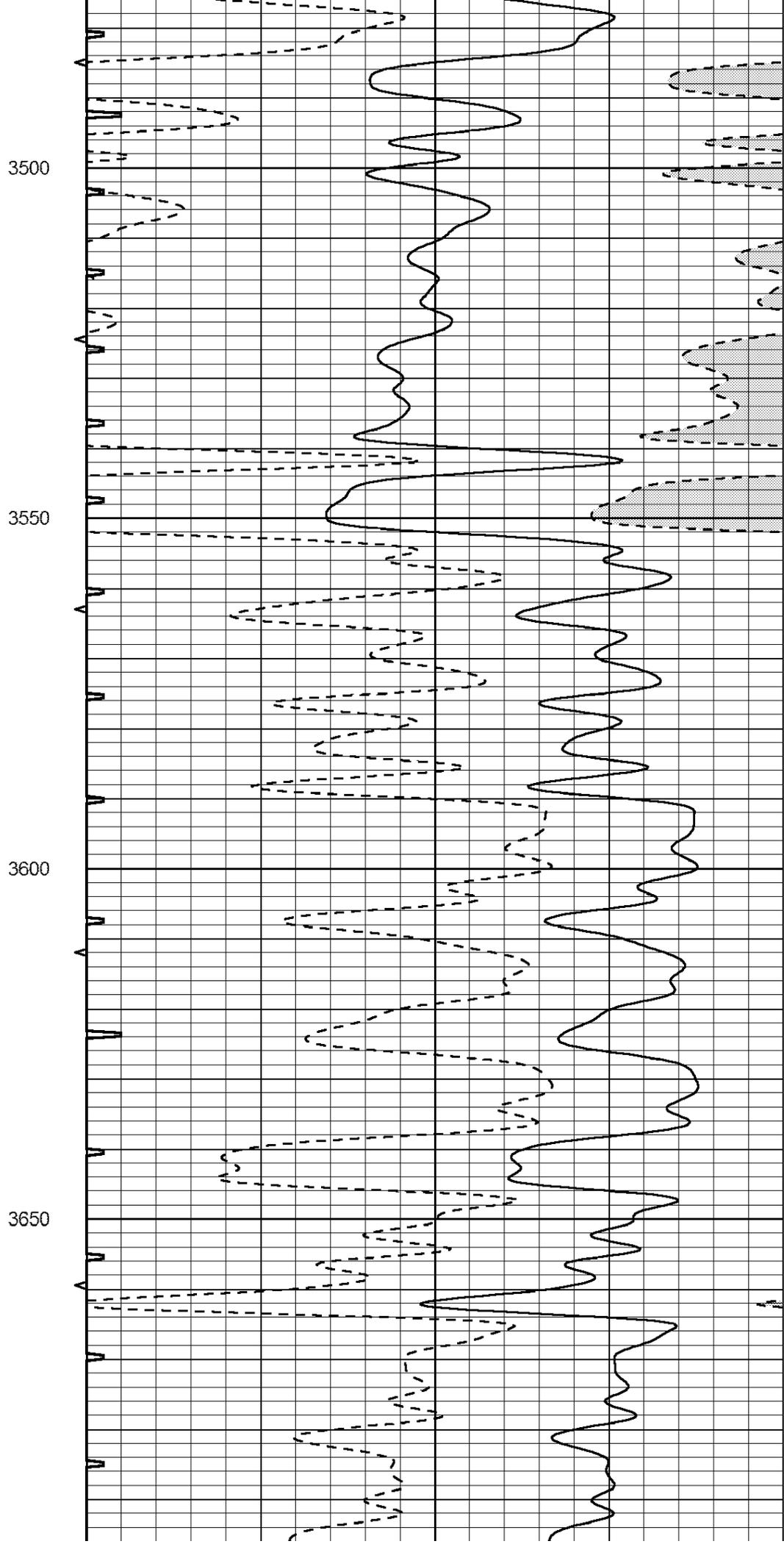
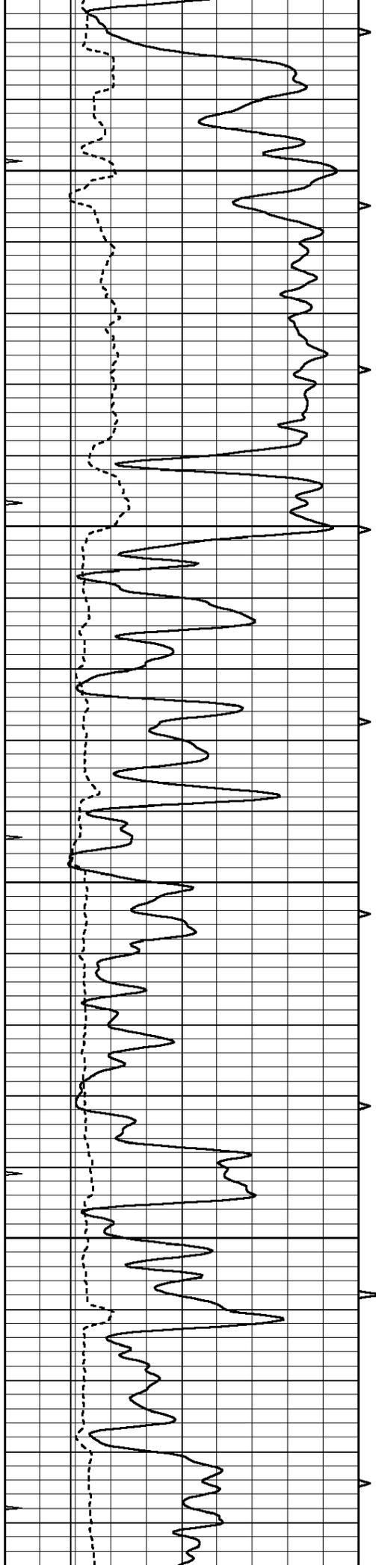
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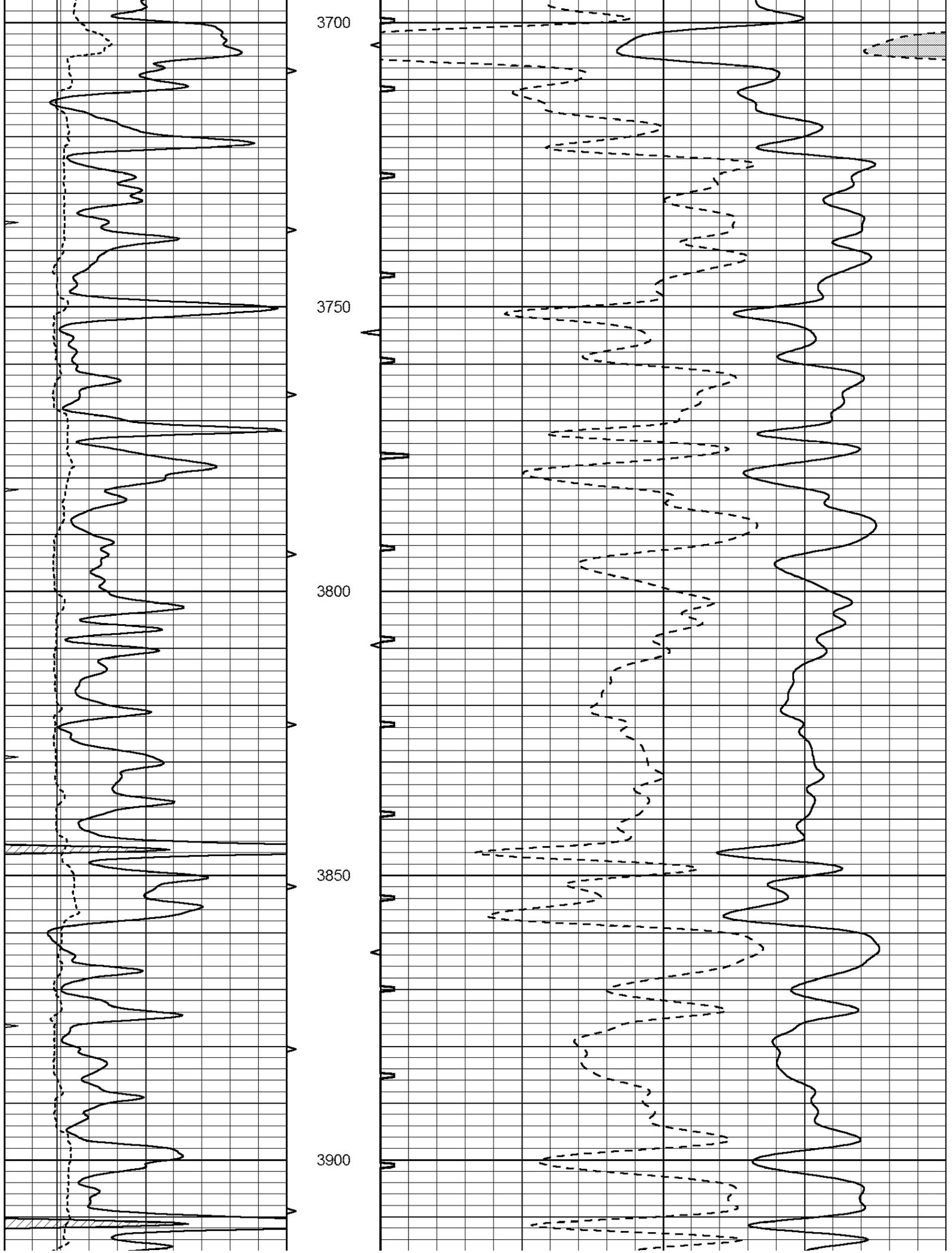
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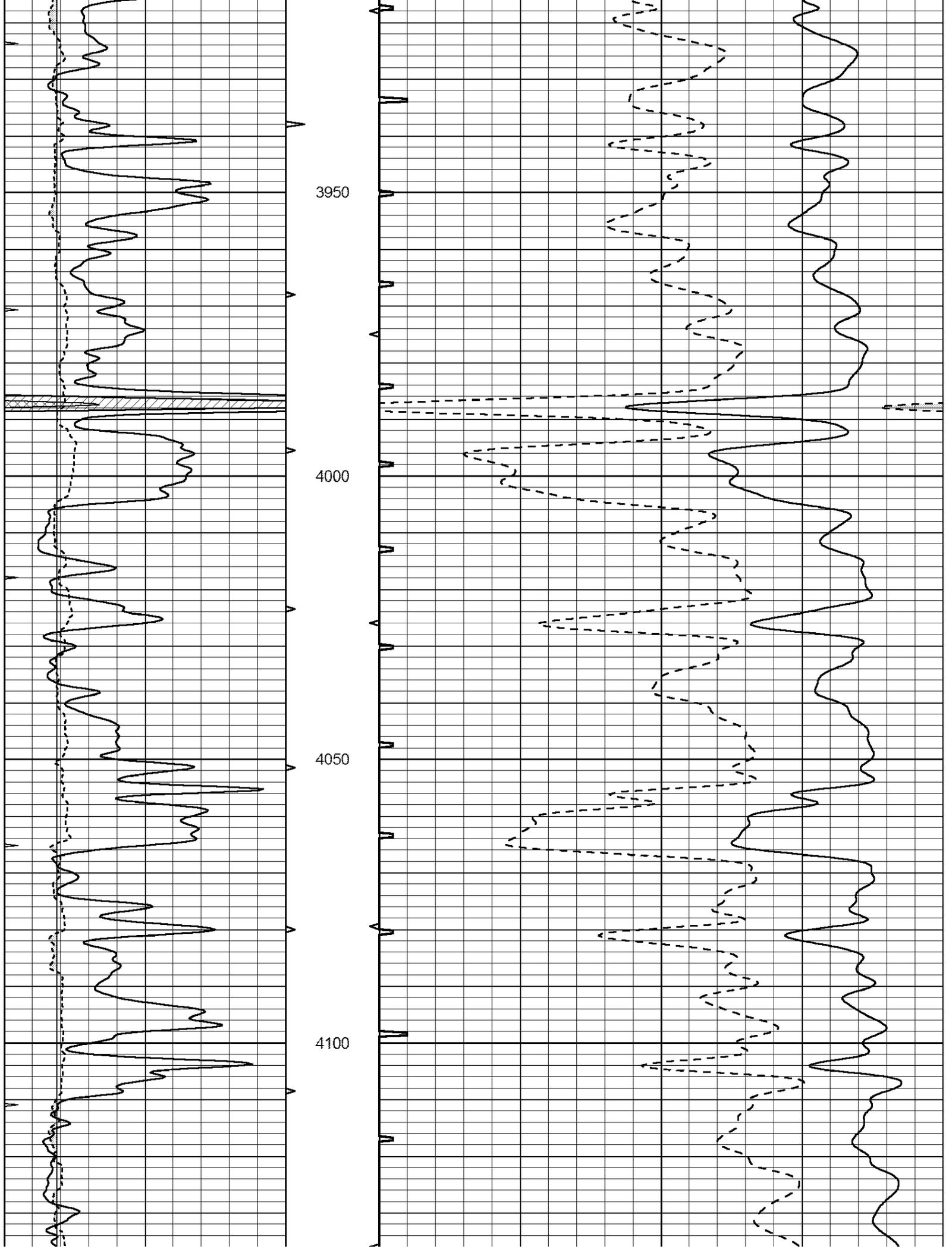


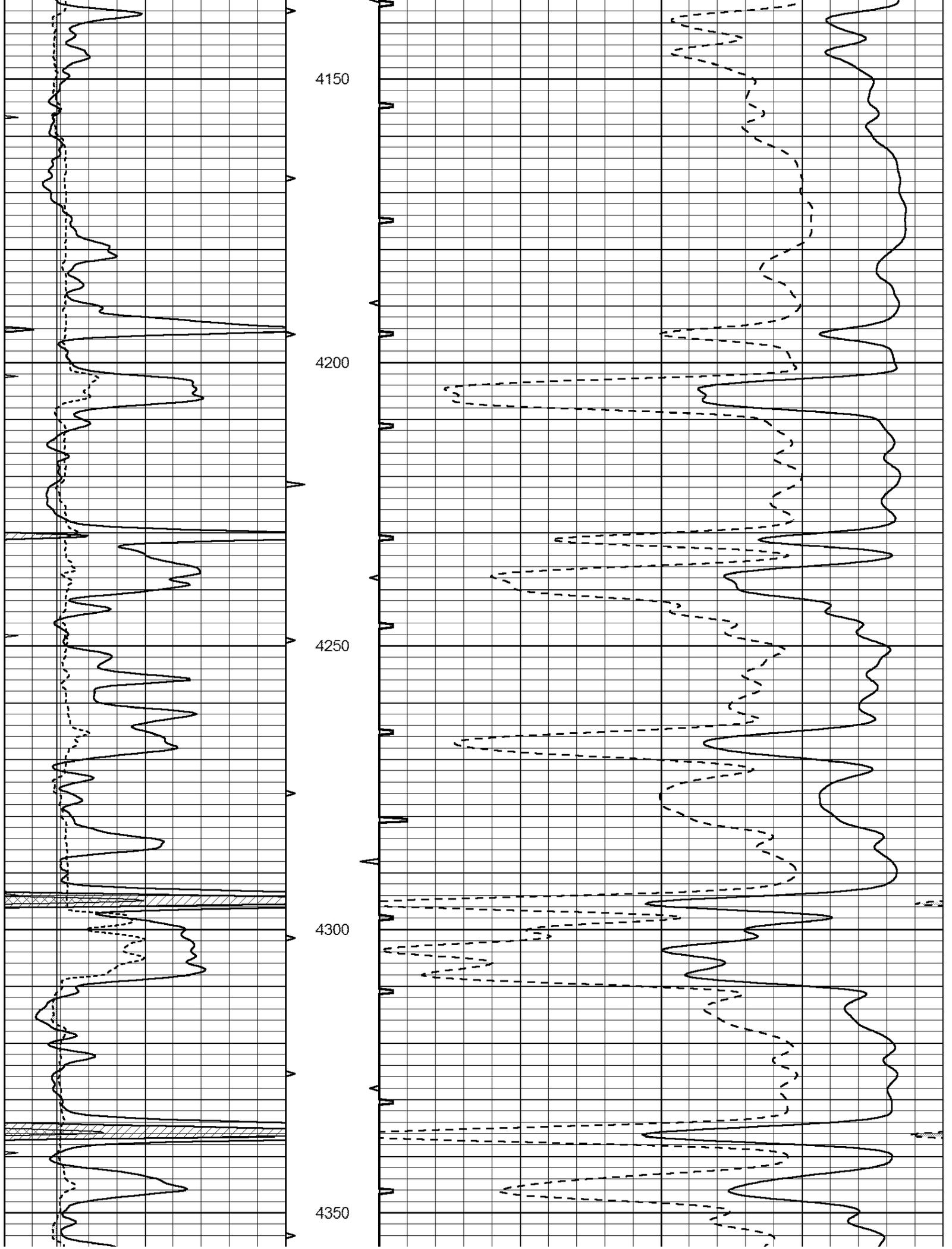


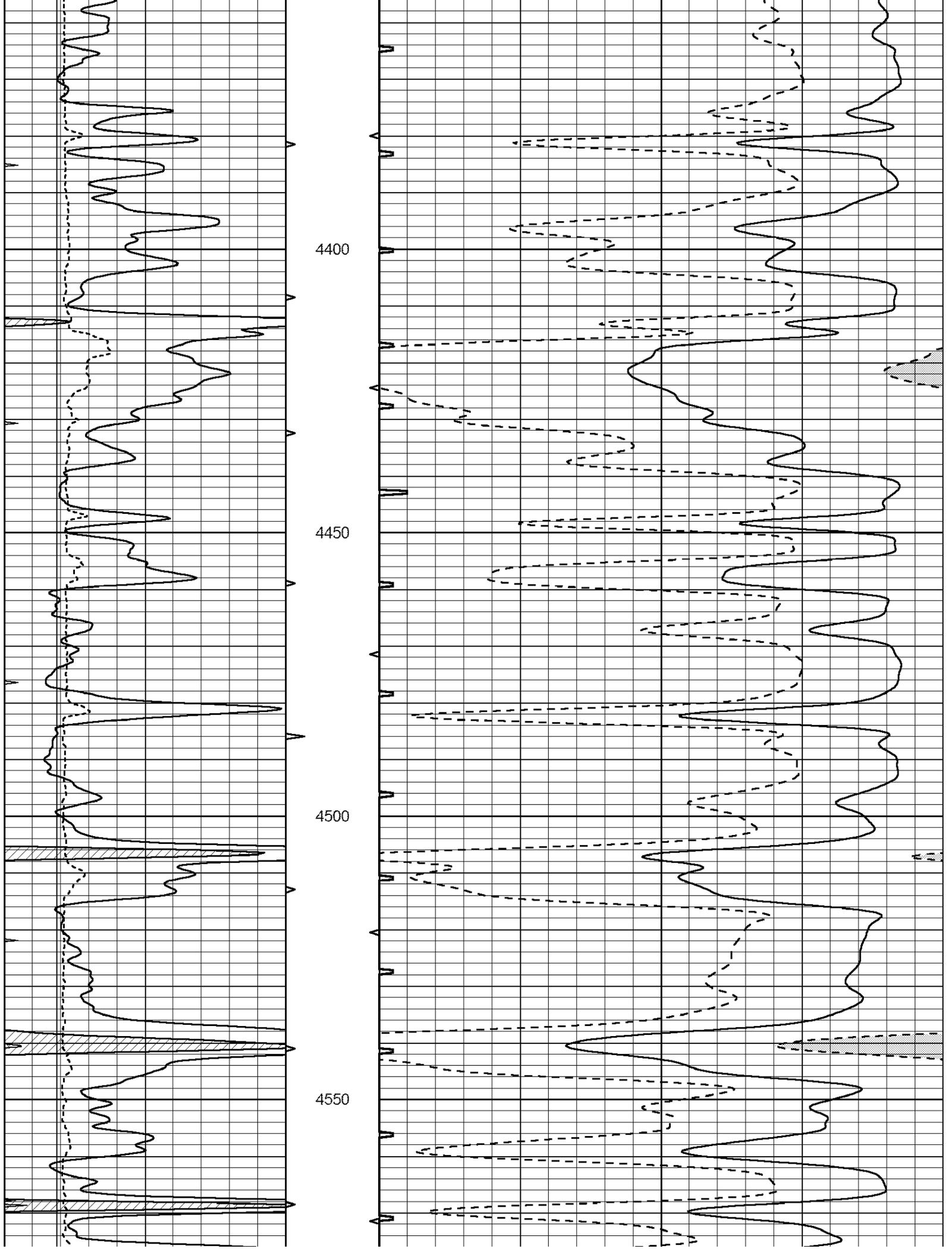


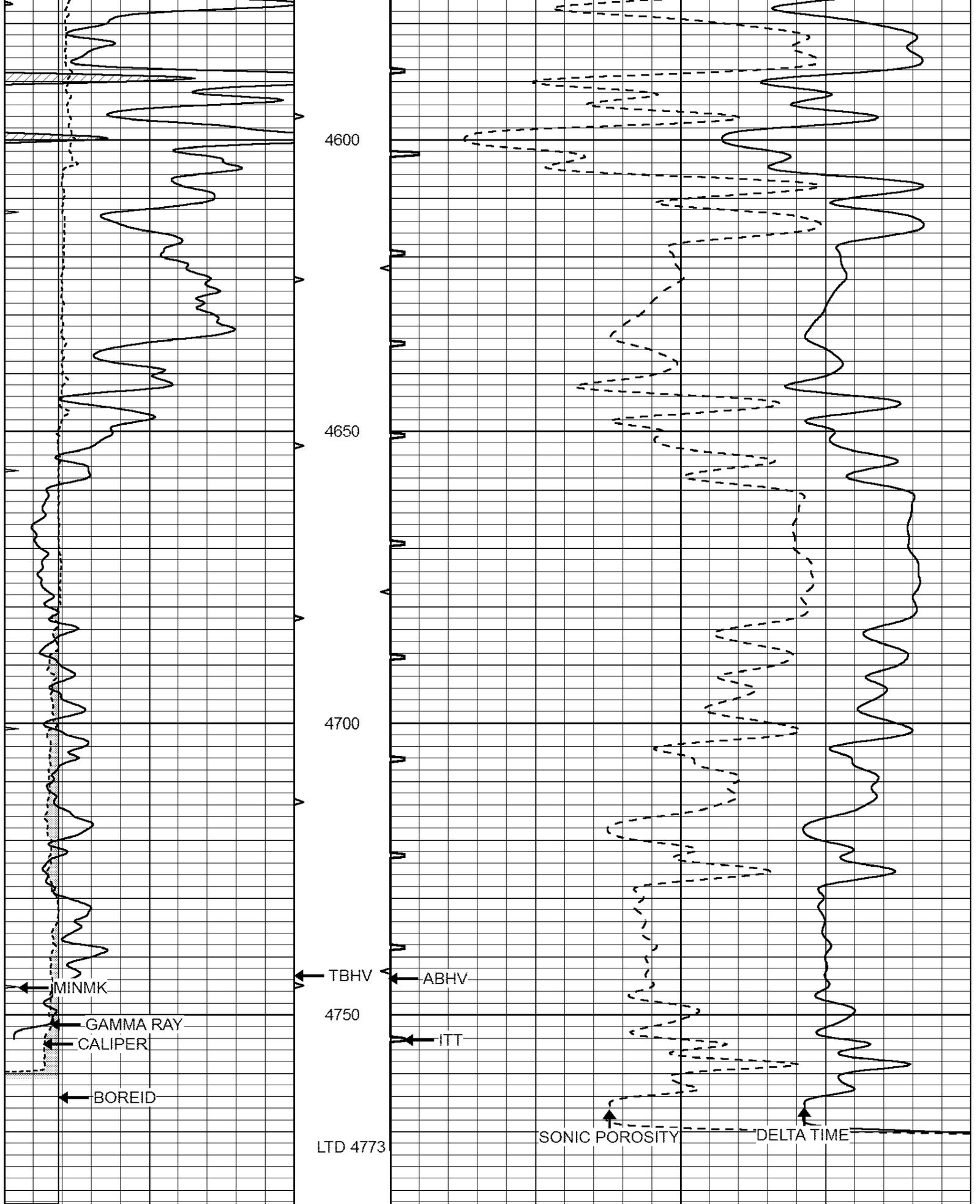












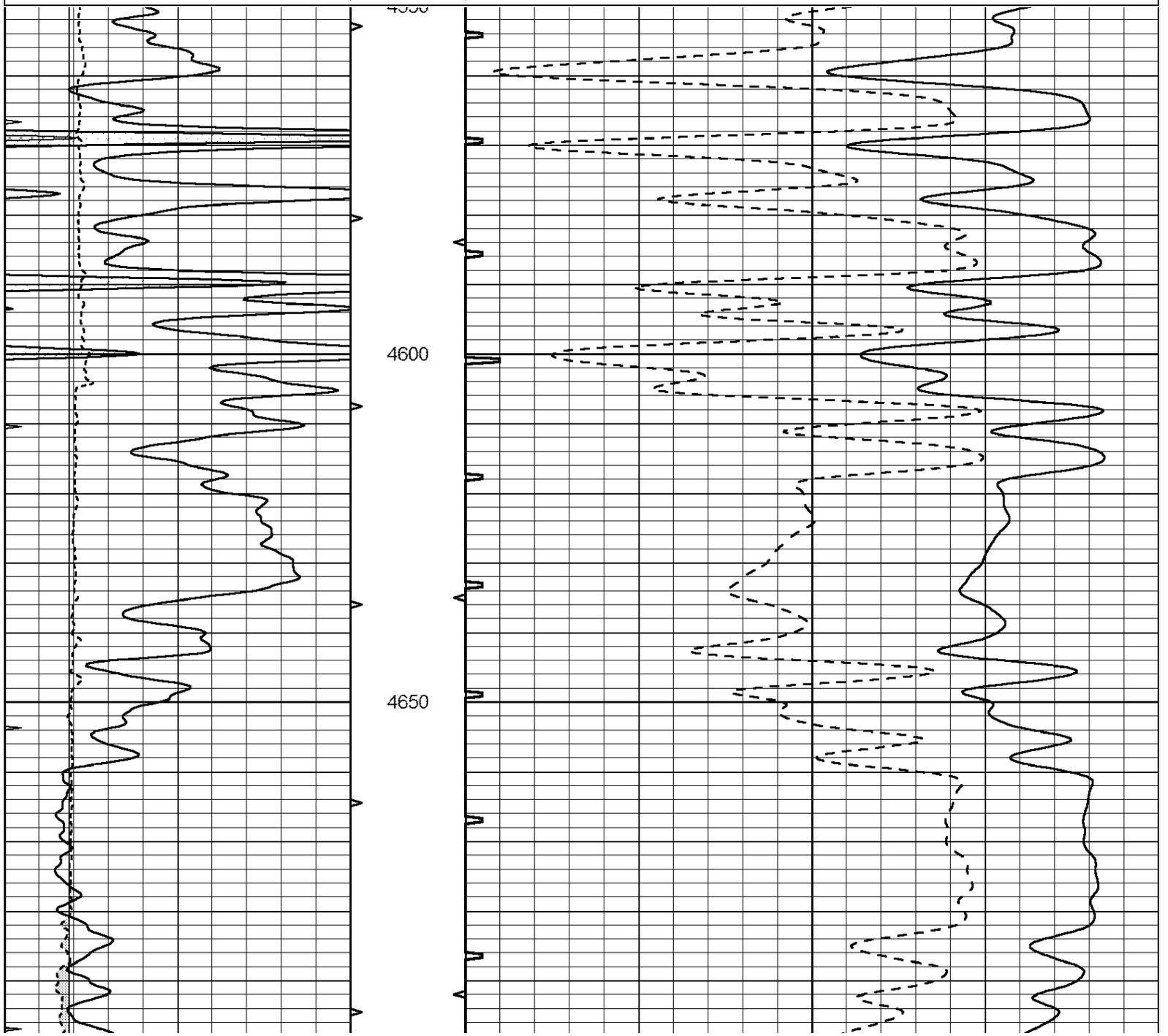
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6	CALIPER (in)	16	10 (ft3)	0	30	SONIC POROSITY (pu)	-10
0	MINMK	20	TBHV	0	ITT (msec)	20	

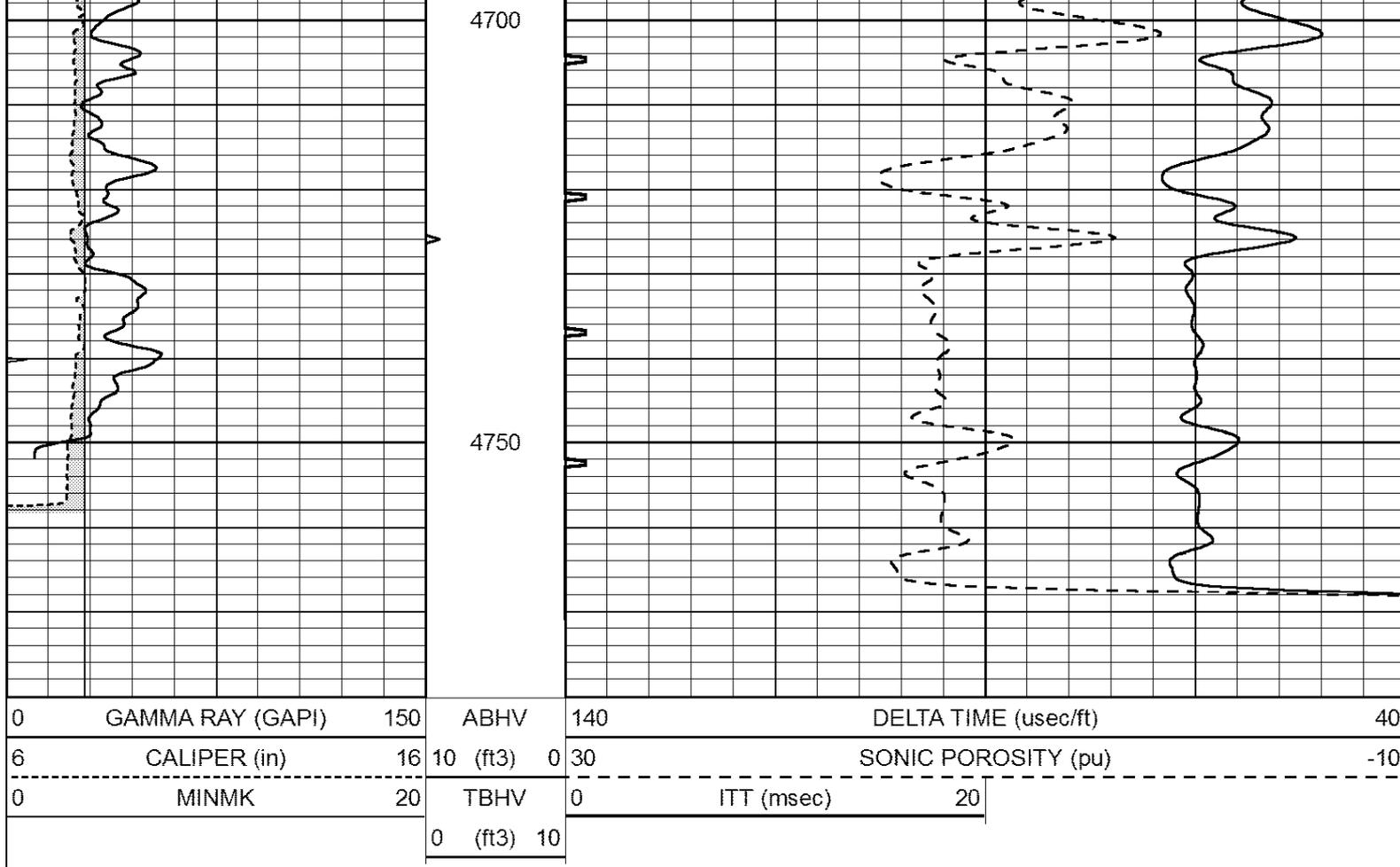


# REPEAT SECTION

Database File: 2405ddn.db  
 Dataset Pathname: pass4.1  
 Presentation Format: \_slt  
 Dataset Creation: Wed Feb 07 07:52:23 2018 by Calc Open-Cased 090629  
 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			





### Calibration Report

Database File: 2405ddn.db  
 Dataset Pathname: pass4.1  
 Dataset Creation: Wed Feb 07 07:52:23 2018 by Calc Open-Cased 090629

### MICRO Calibration Report

Serial Number: MICRO6  
 Tool Model: PROBE  
 Performed: Wed Feb 07 06:59:26 2018

Caliper Calibration: Gain=26.821 Offset=0.483

References	Low Cal	High Cal
Readings	7.000	14.000
	0.217	0.478

1.5" Calibration: Gain=34.075 Offset=-0.400

References	Low Cal	High Cal
Readings	0.000	20.000
	0.004	1.196

2" Calibration: Gain=45.000 Offset=-1.000

References	Low Cal	High Cal
Readings	0.000	20.000
	0.006	0.913

### Gamma Ray Calibration Report

Serial Number: GR2  
 Tool Model: OPEN  
 Performed: Wed Aug 16 17:13:40 2017

Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.3800	GAPI/cps