



SONIC LOG

Company	BEAR PETROLEUM	Company	BEAR PETROLEUM
Well	RYAN A #1	Well	RYAN A #1
Field	UNNAMED	Field	UNNAMED
County	PAWNEE	County	PAWNEE
State	KANSAS	State	KANSAS
Location:	API # : 15-145-21844-00-00 2240 FSL & 400 FWL	Other Services	CDL/CNL/DIL MEL
Permanent Datum	SEC 15 TWP 22S RGE 20W	Elevation	
Log Measured From	GROUND LEVEL	K.B. 2229	
Drilling Measured From	KELLY BUSHING 6' A.G.L. KELLY BUSHING	D.F. 2227	
		G.L. 2223	
Date	02/01/19		
Run Number	TWO		
Depth Driller	4800		
Depth Logger	4799		
Bottom Logged Interval	4789		
Top Log Interval	50		
Casing Driller	8 5/8" @ 1355		
Casing Logger	1355		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.3/64		
pH / Fluid Loss	8.5/11.6		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	1.9@60		
Rmt @ Meas. Temp	1.43@60		
Rmc @ Meas. Temp	2.28@60		
Source of Rmt / Rmc	MEASURED		
Rm @ BHT	.94@121		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	///		
Maximum Recorded Temperature	121F		
Equipment Number	1523		
Location	HAYS, KANSAS		
Recorded By	GUS PFANENSTIEL		
Witnessed By	ROD ANDERSON		

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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

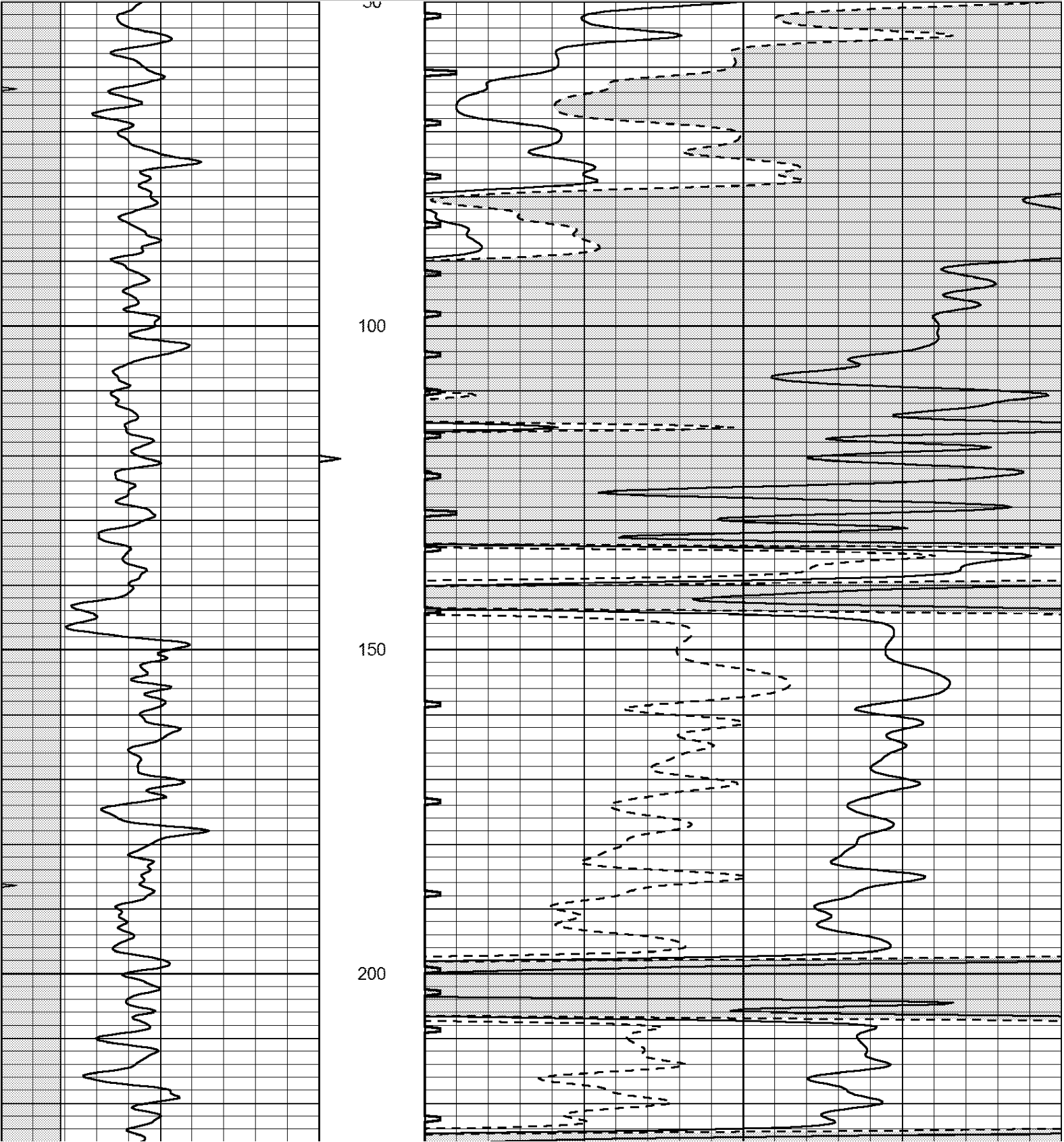
DIRECTIONS
BURDETT EAST TO 340 SOUTH TO N RD.
EAST INTO.

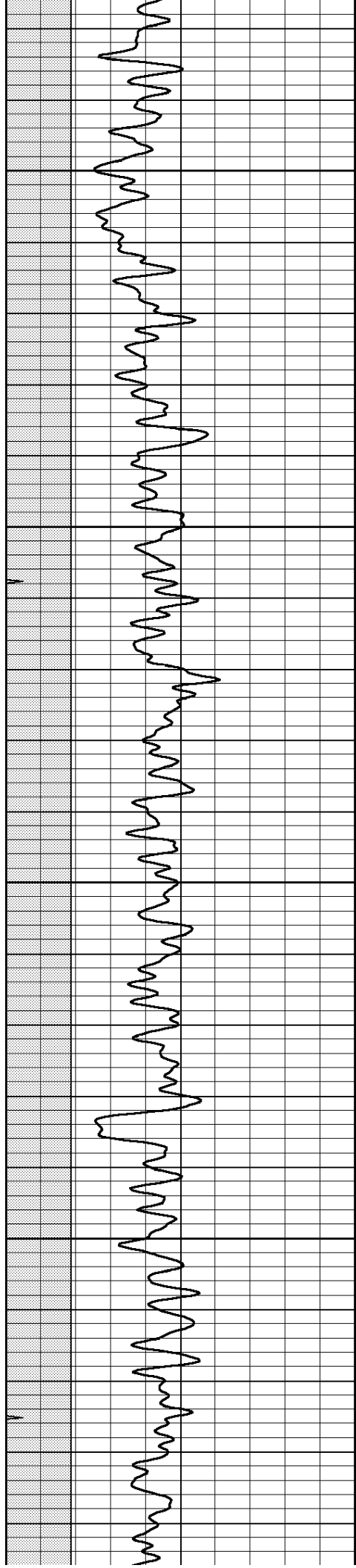


MAIN PASS

Database File: 3479ddn.db
Dataset Pathname: pass5.1
Presentation Format: _slt
Dataset Creation: Fri Feb 01 07:52:31 2019 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				



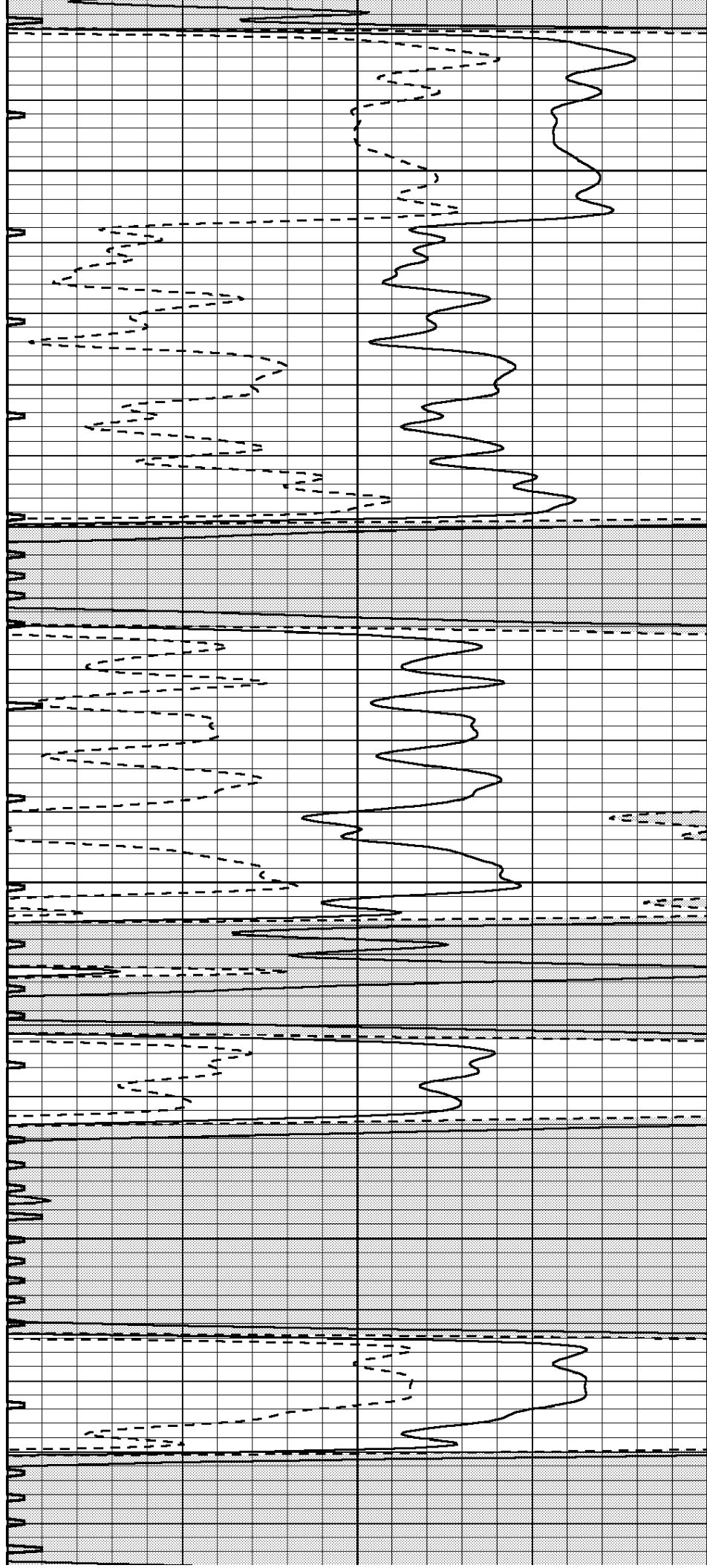


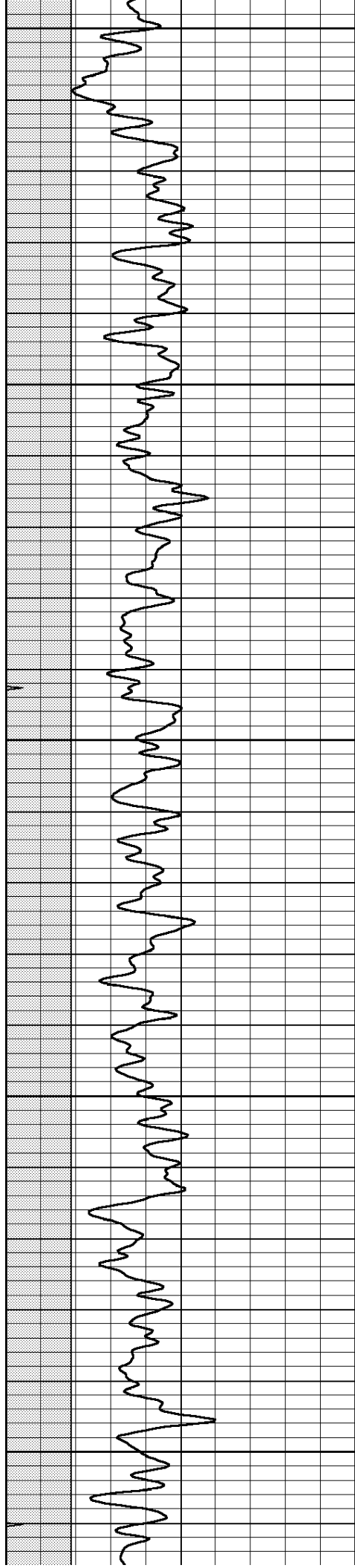
250

300

350

400





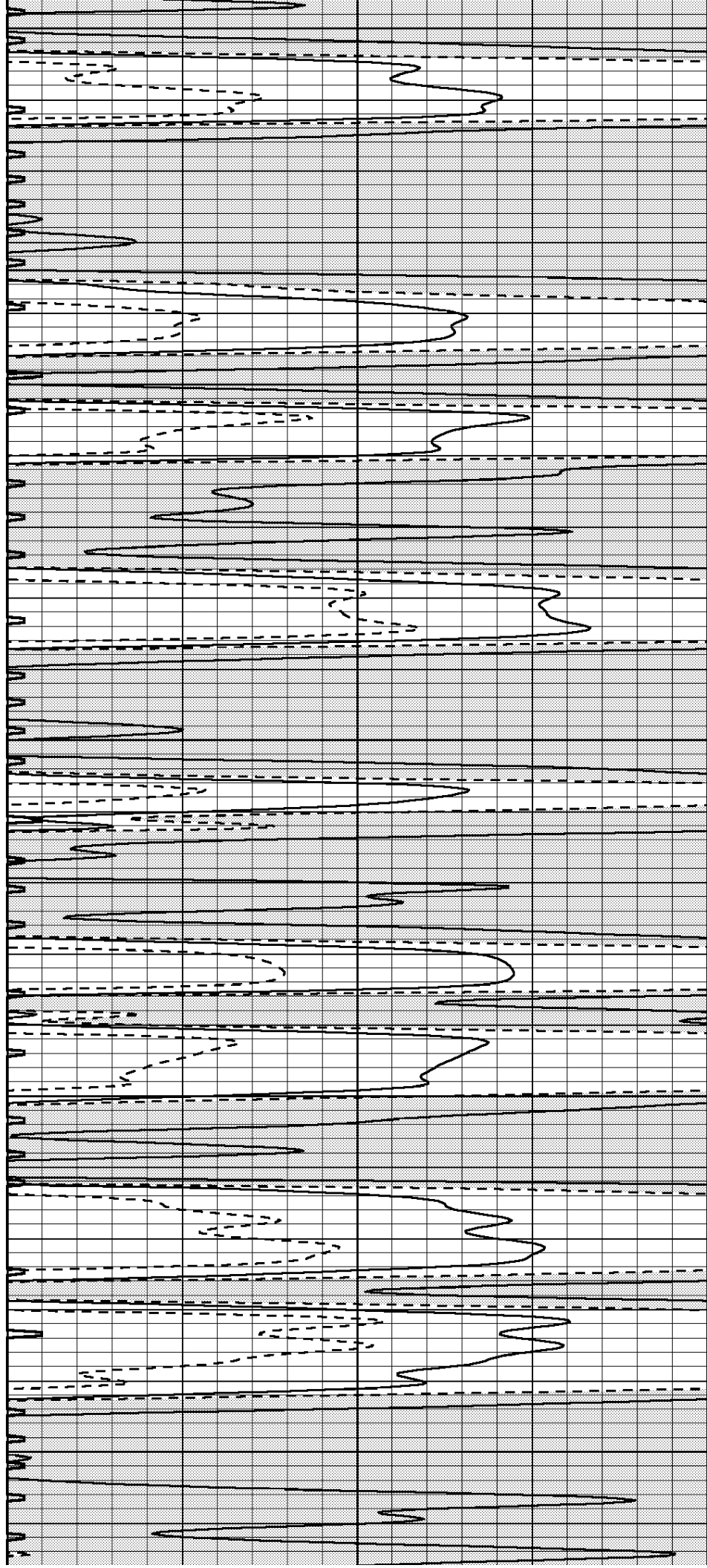
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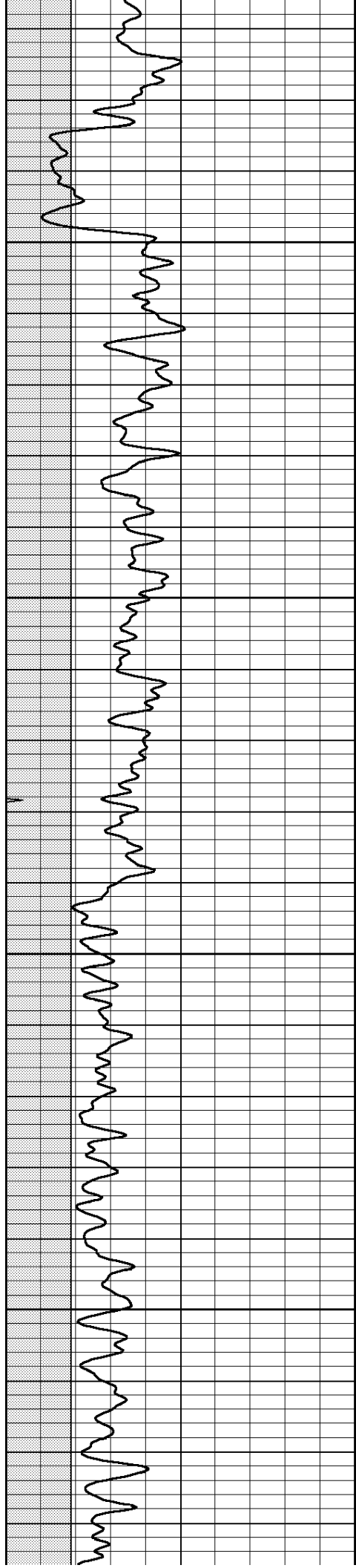
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550

600

650



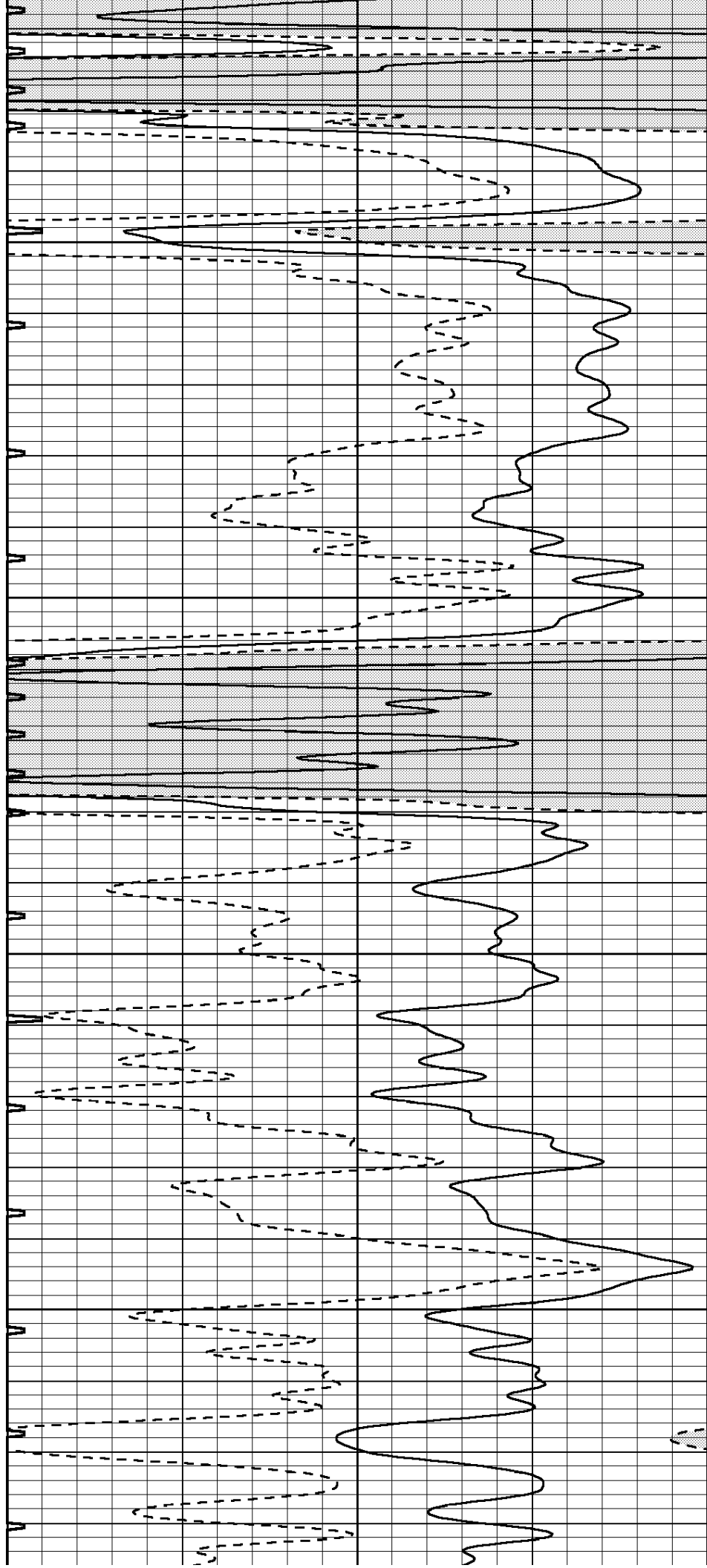


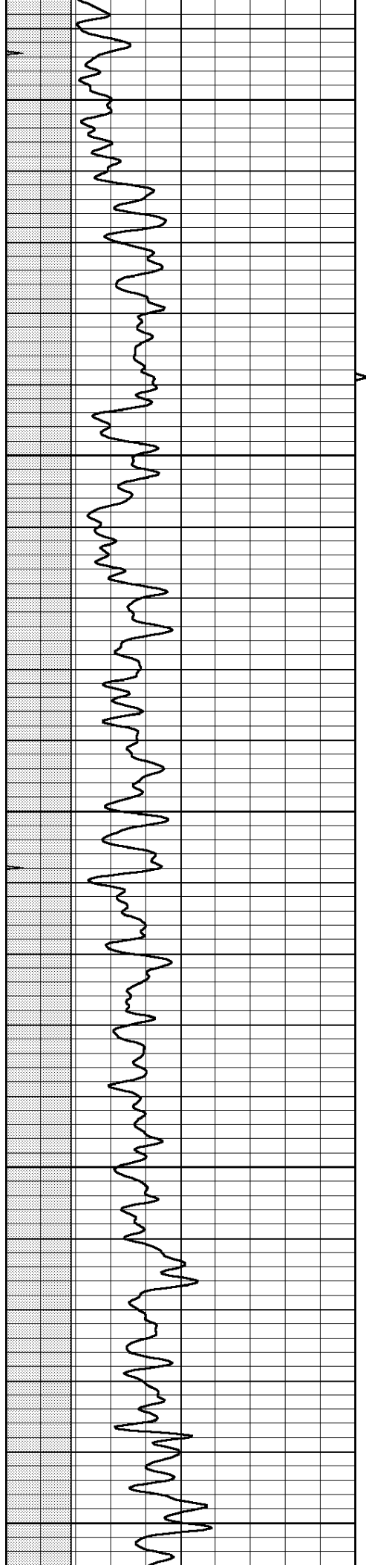
700

750

800

850





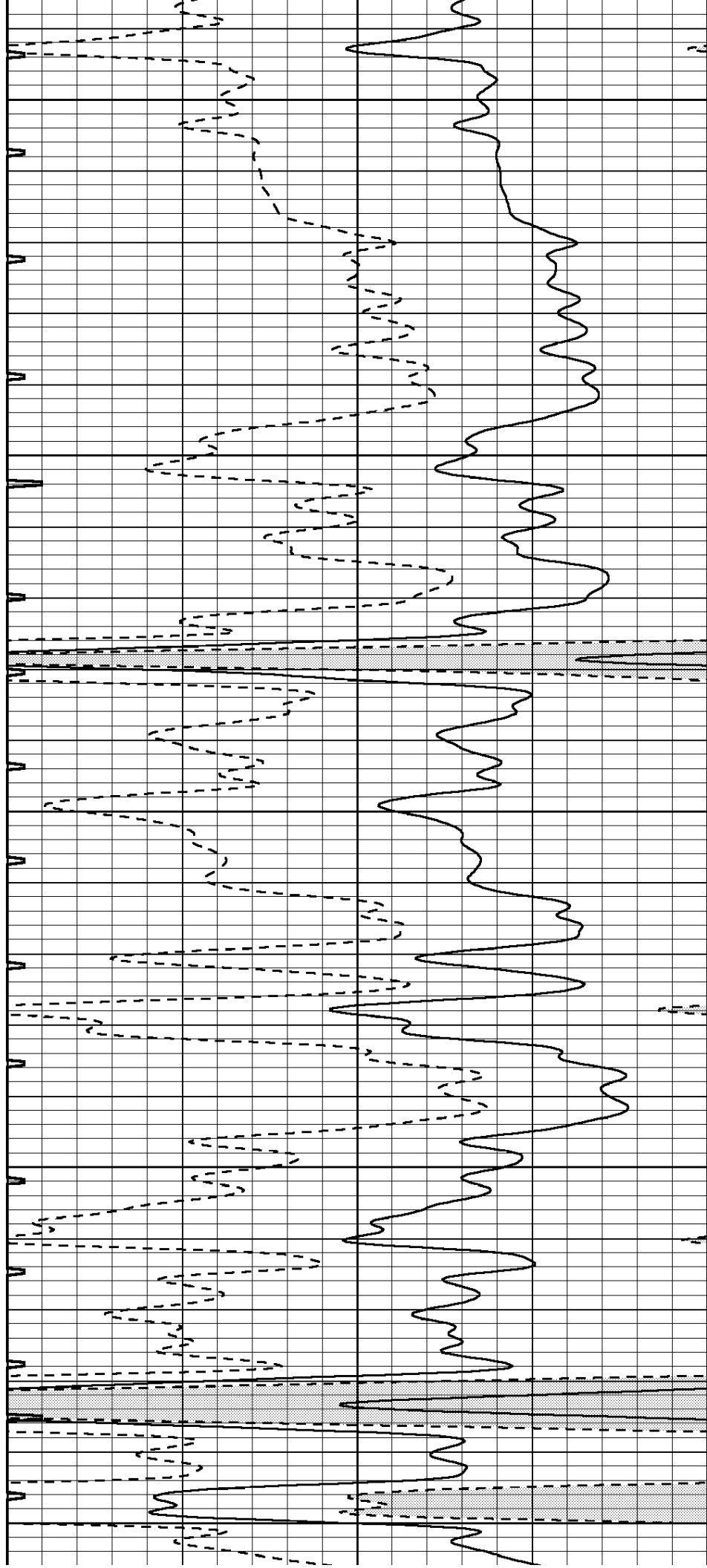
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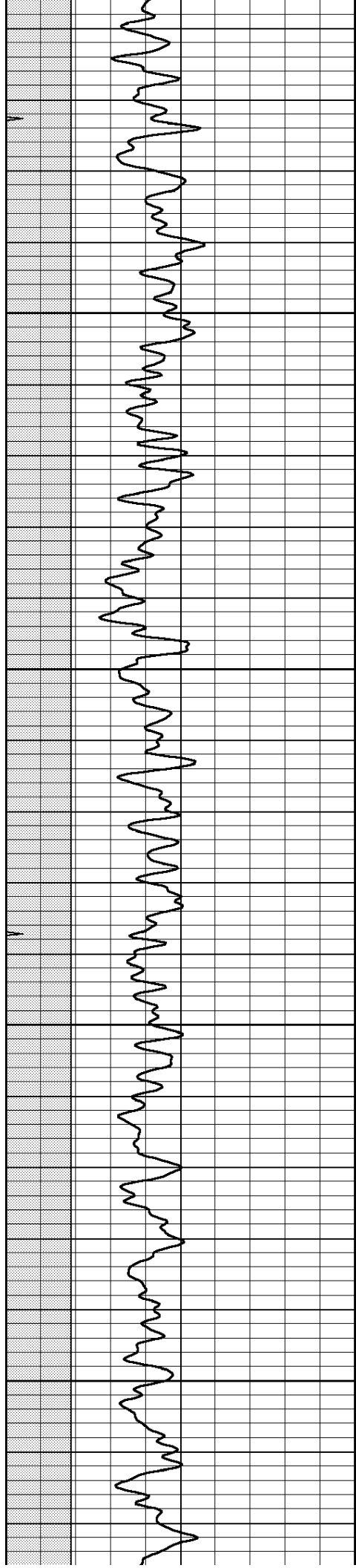
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1000

1050

1100



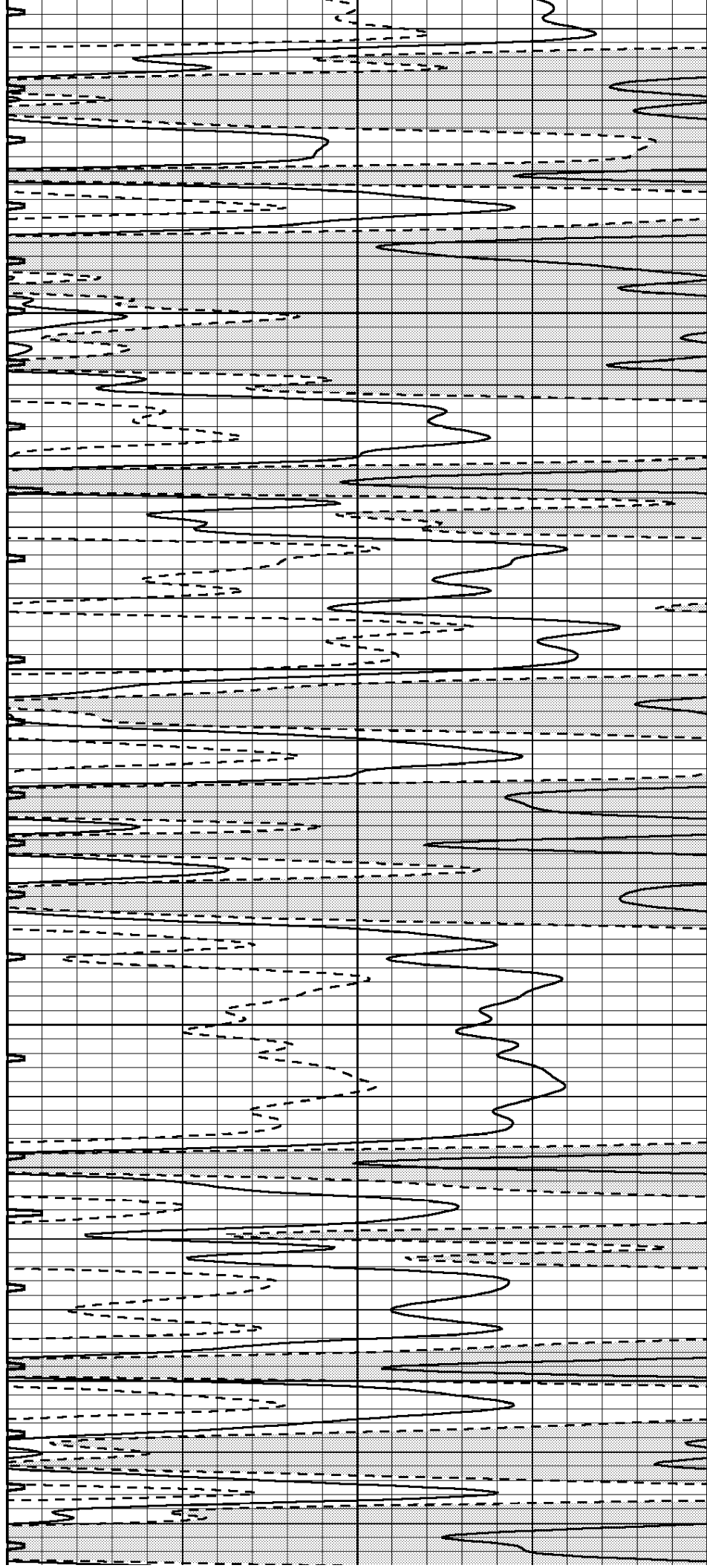


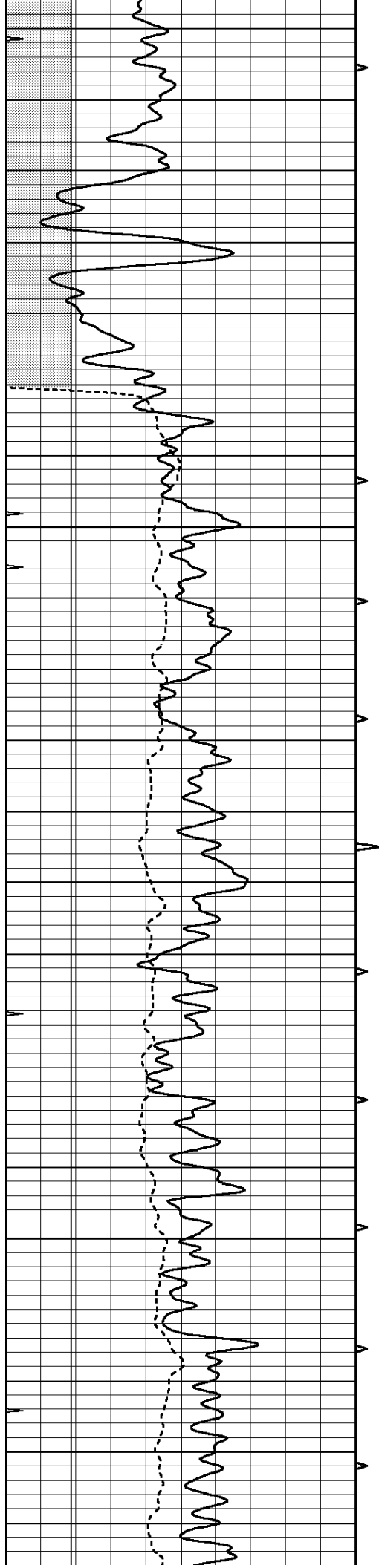
1150

1200

1250

1300



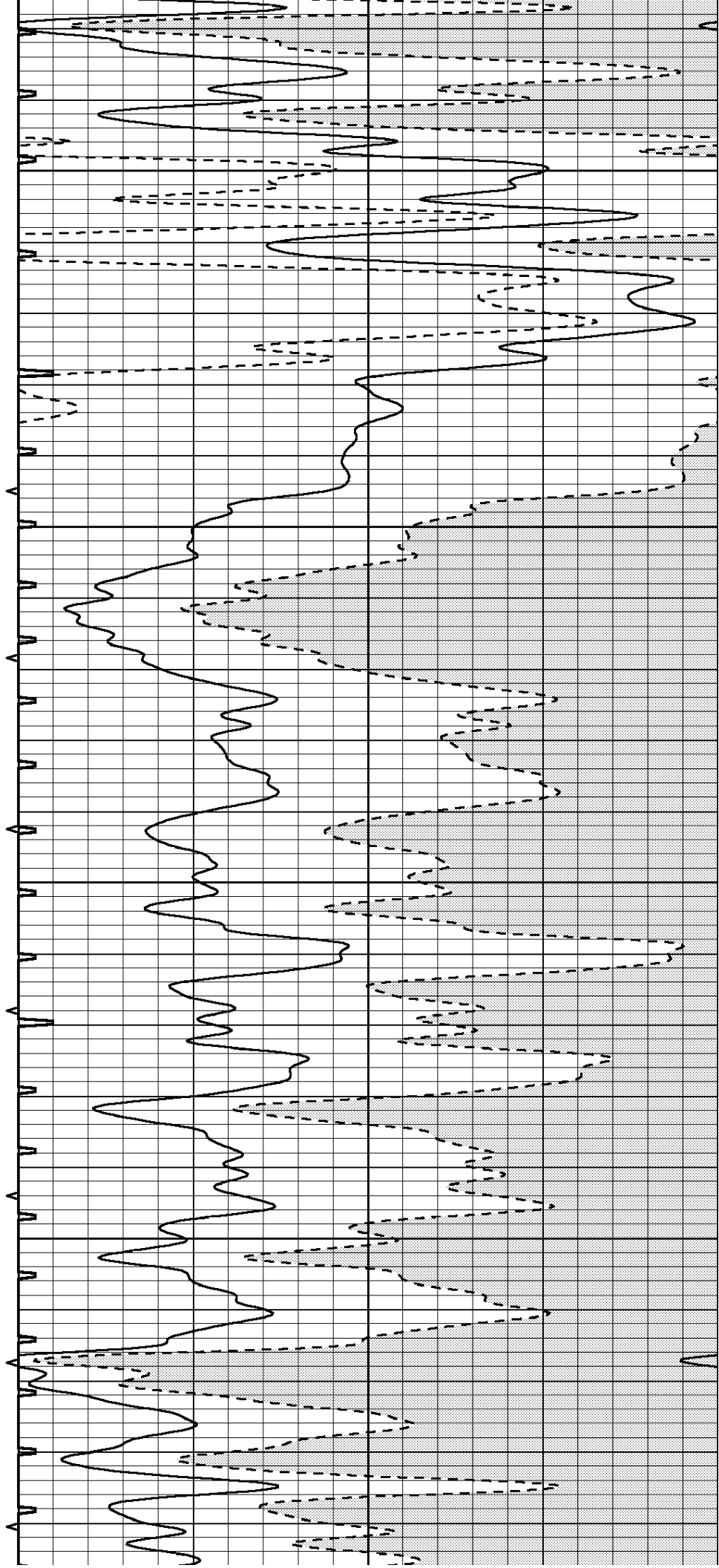


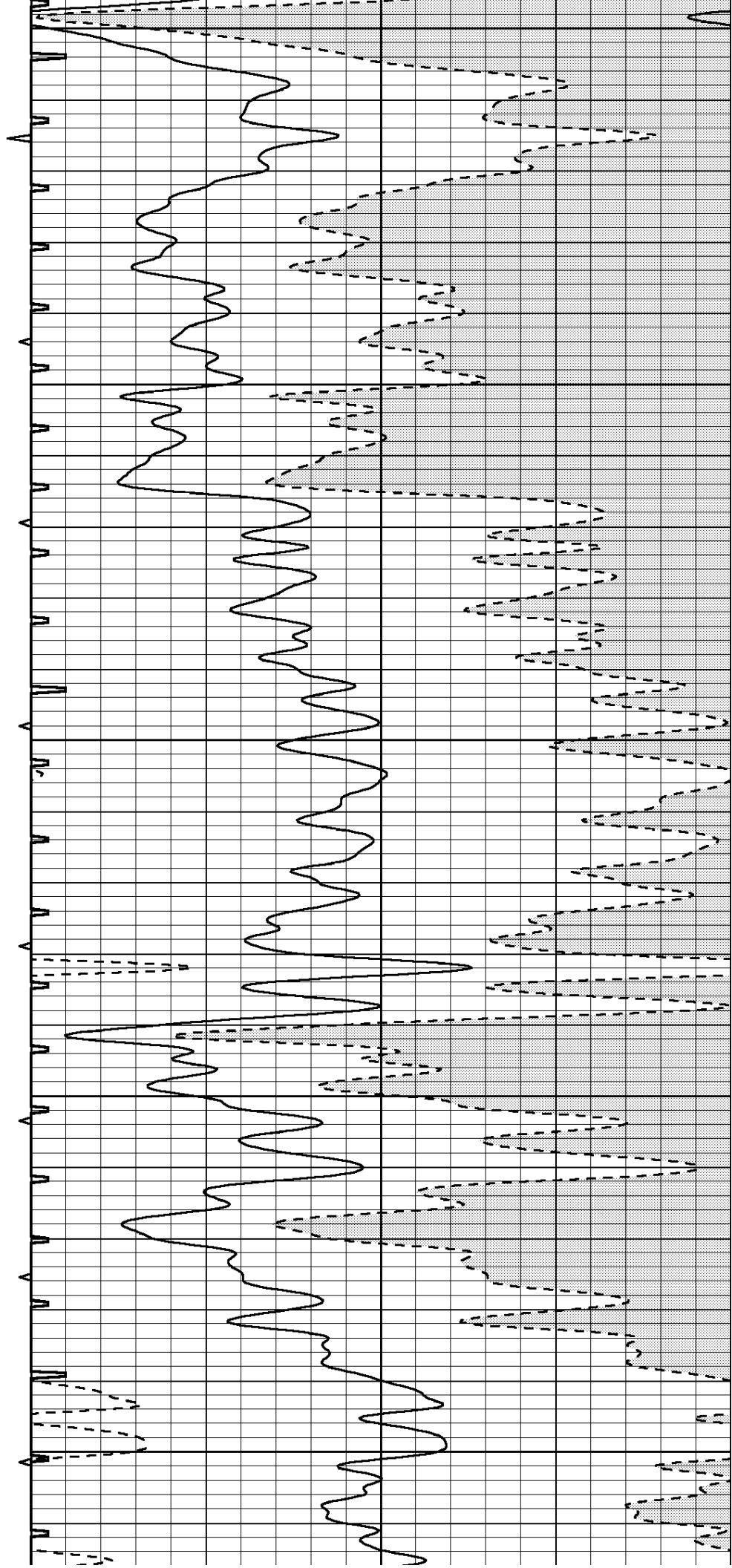
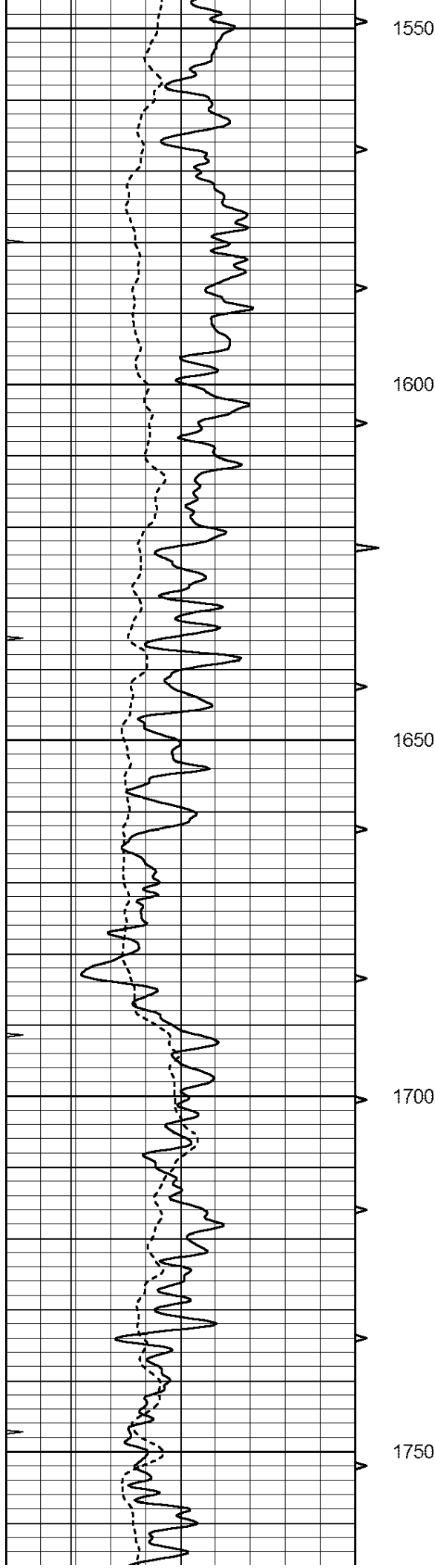
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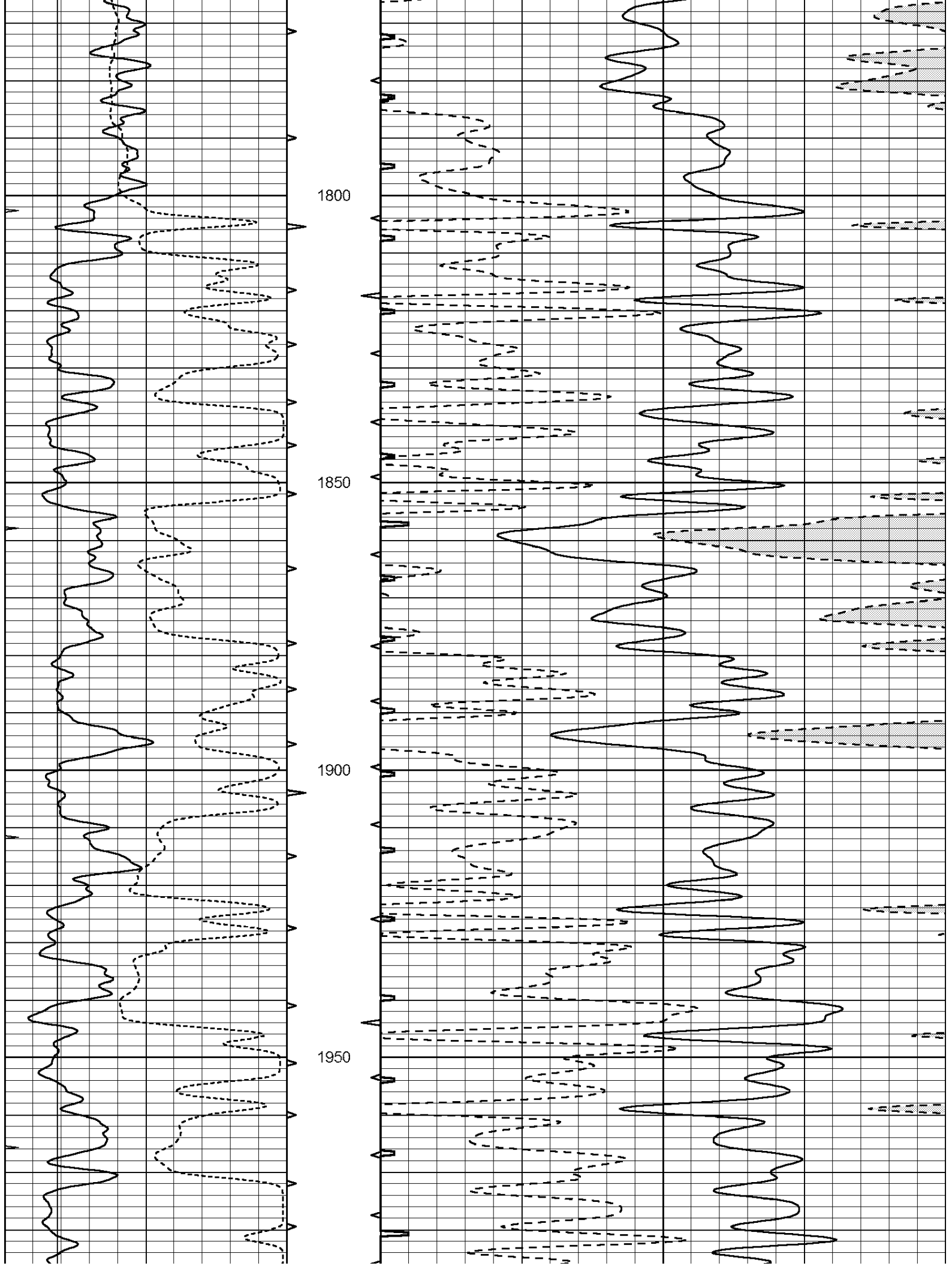
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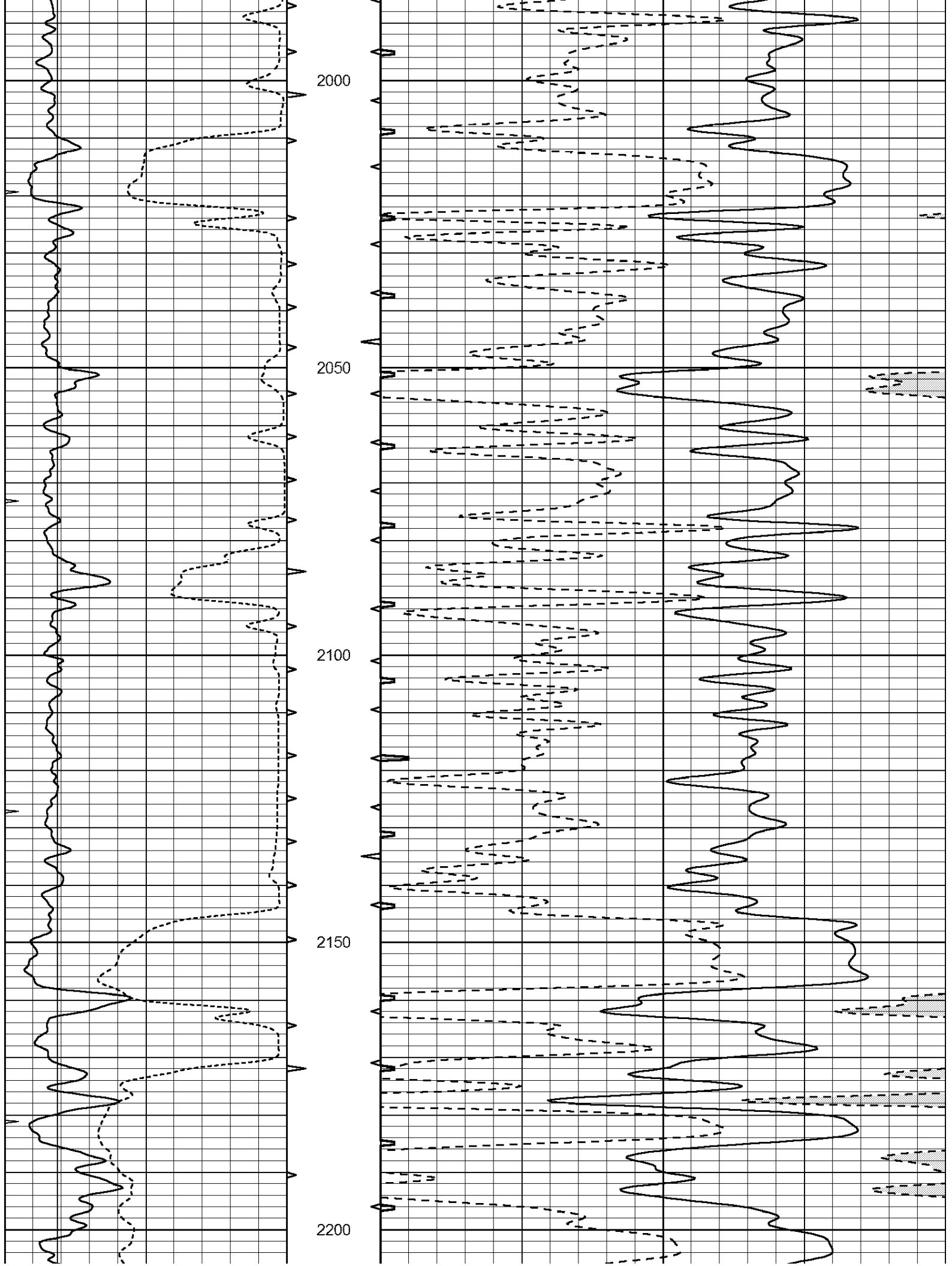
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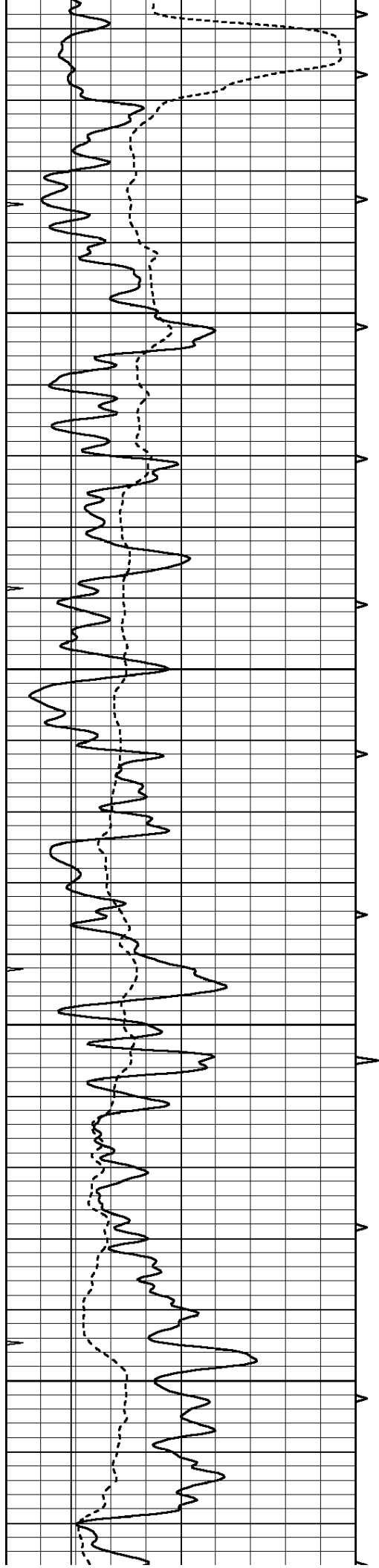
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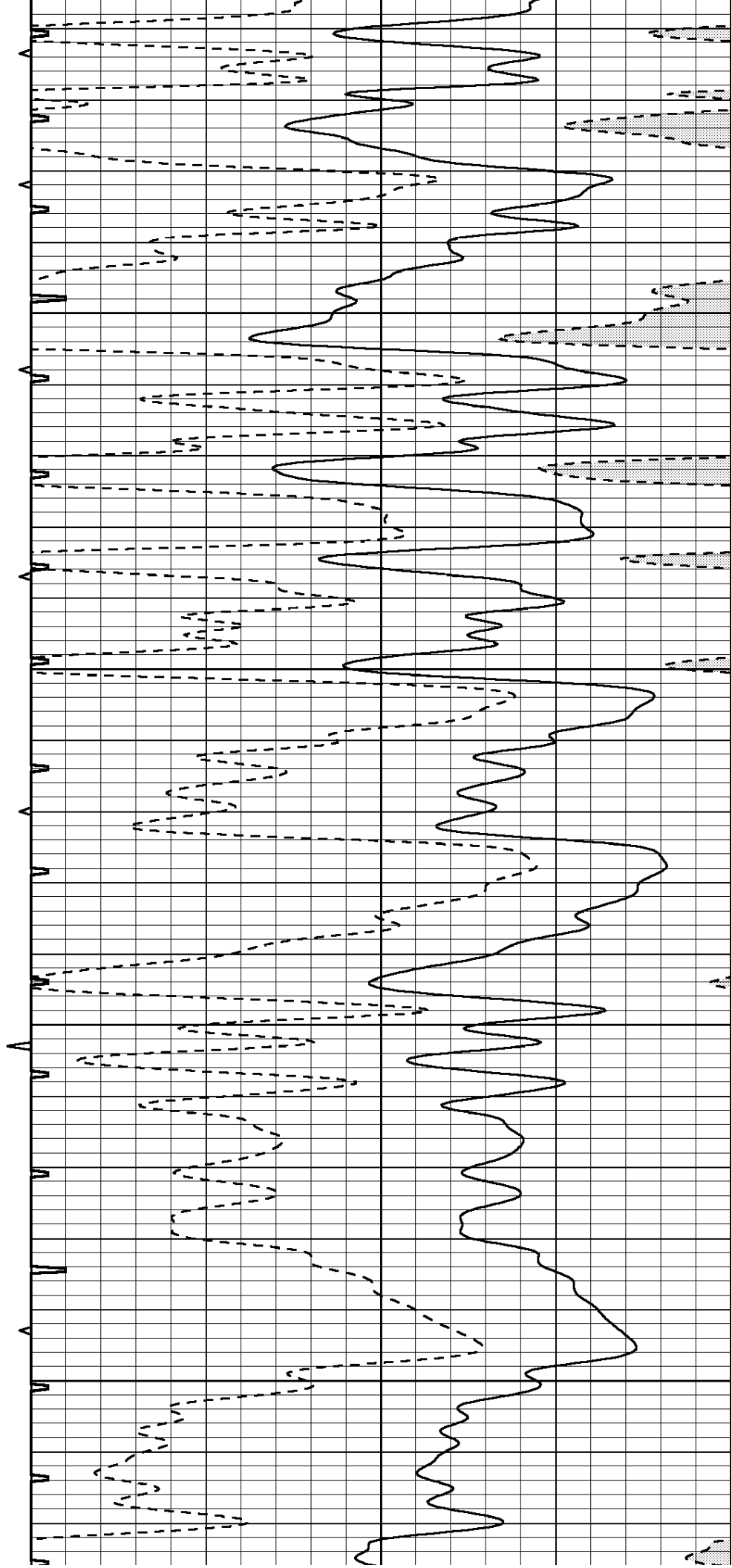


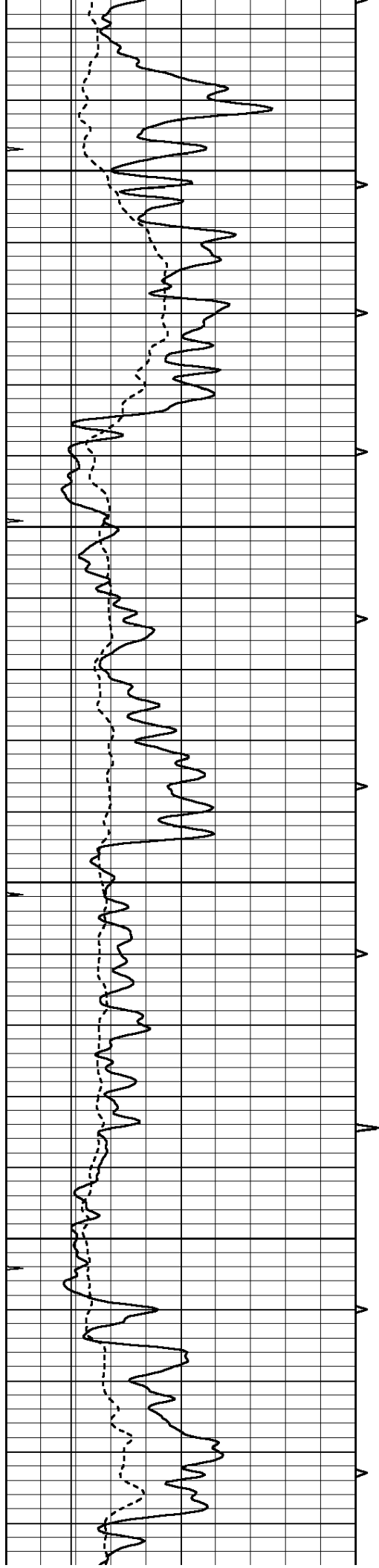
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2300

2350

2400



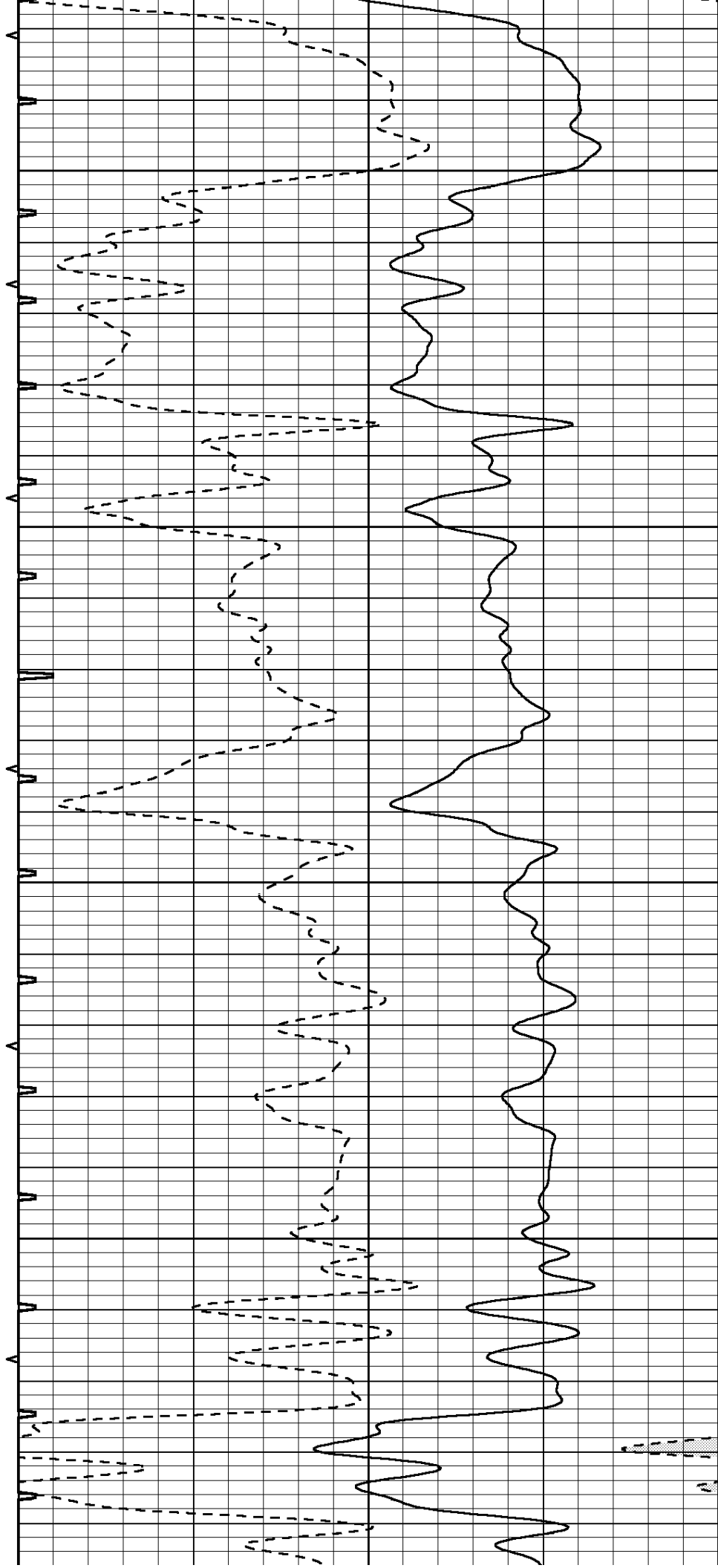


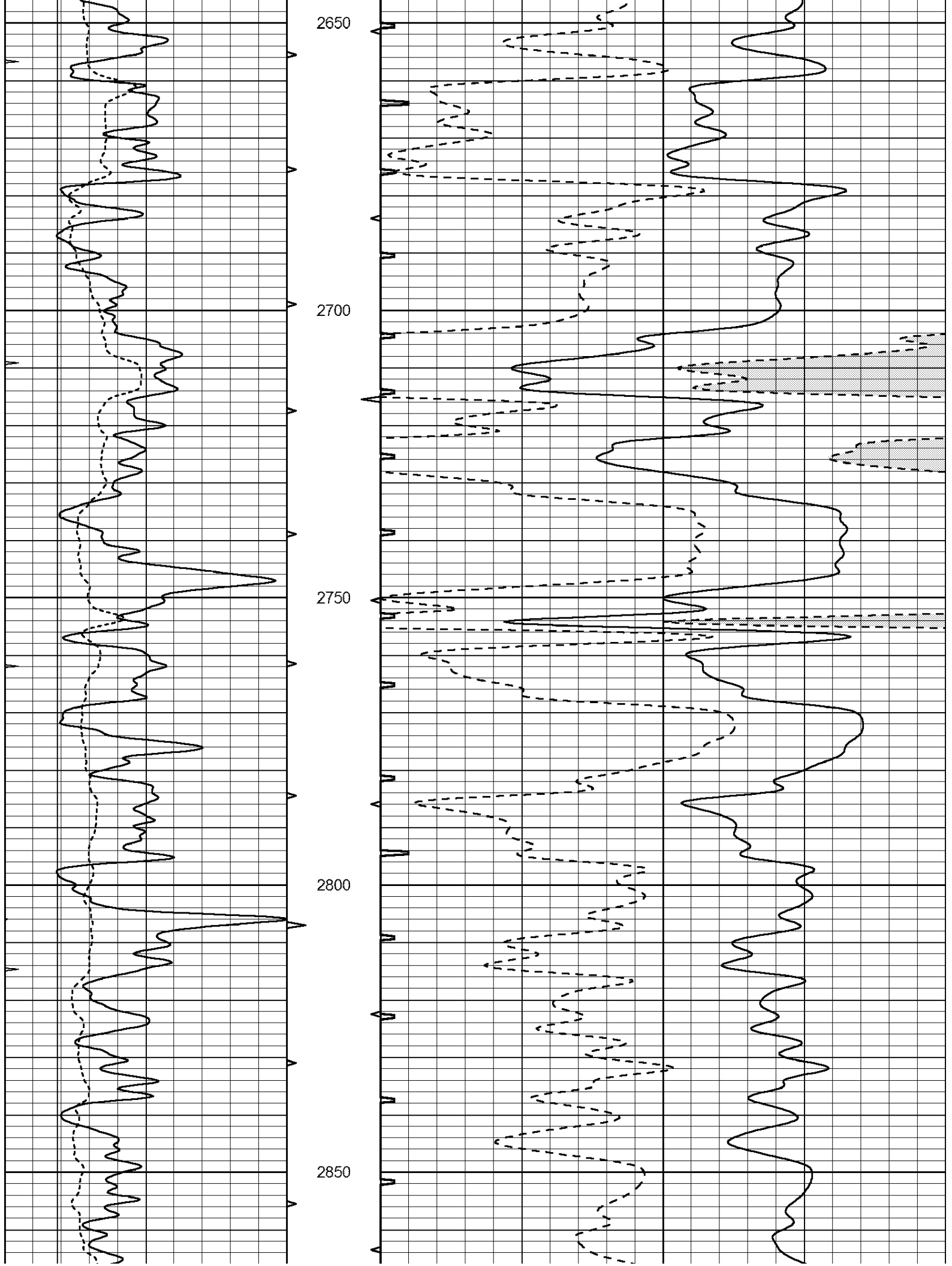
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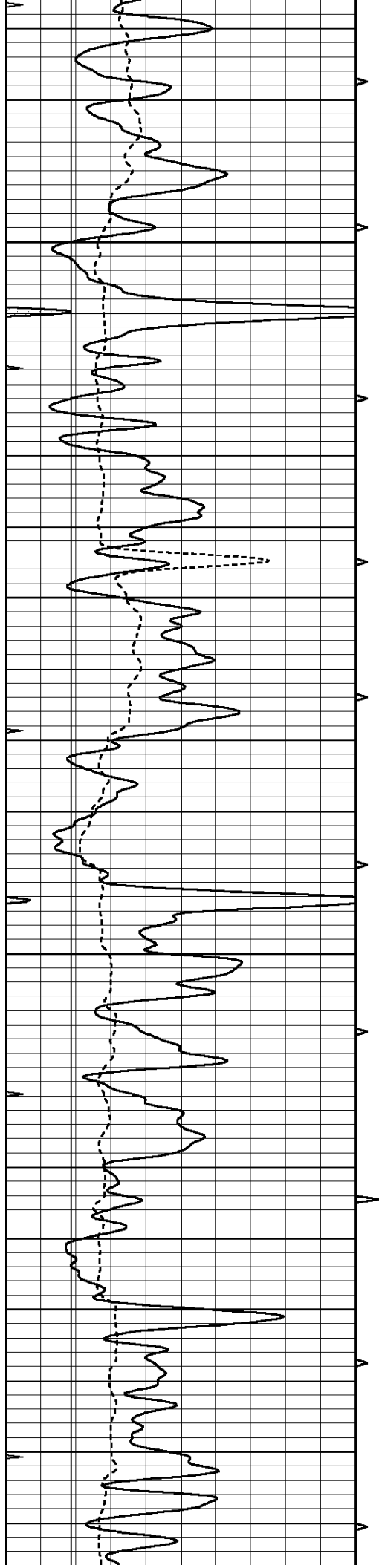
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2550

2600





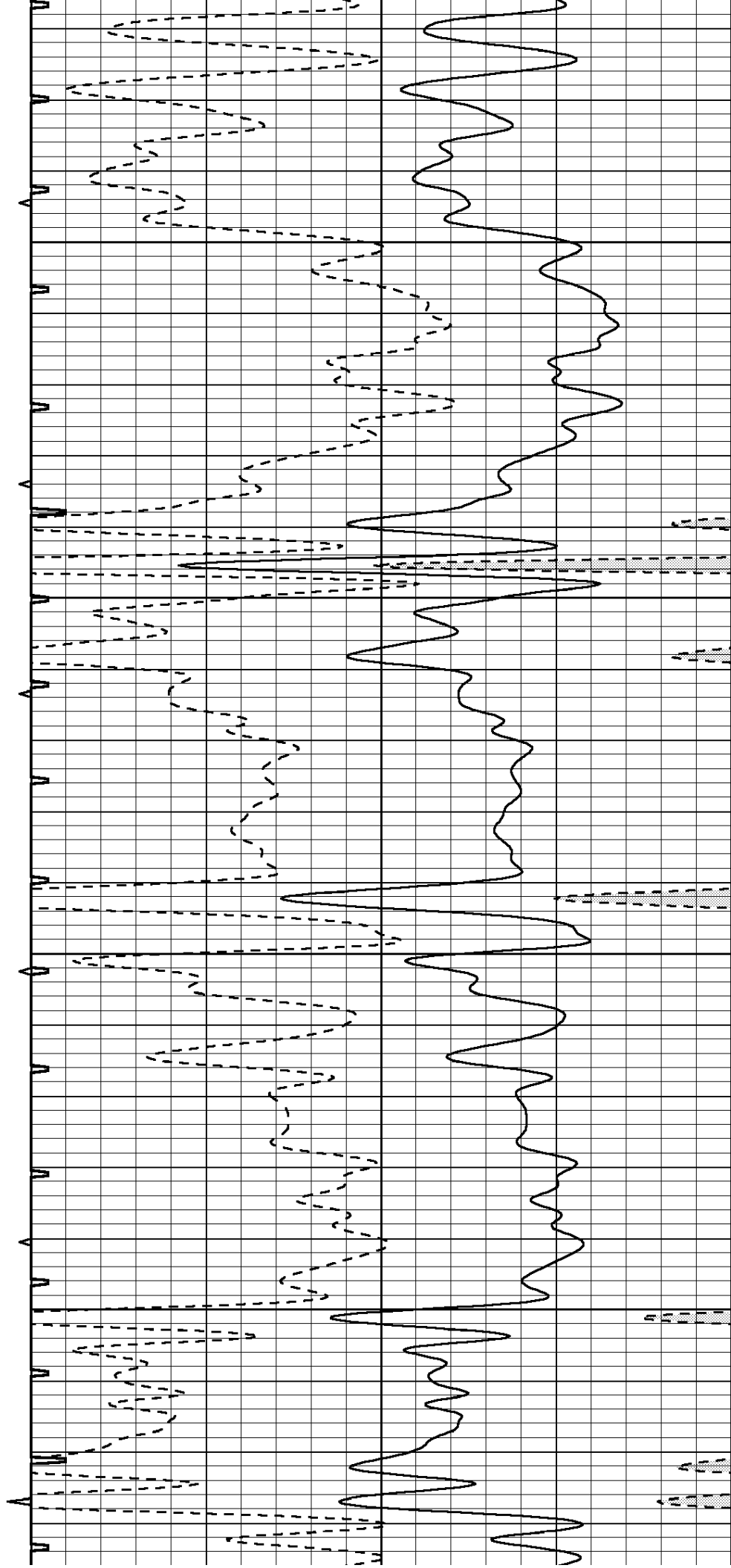


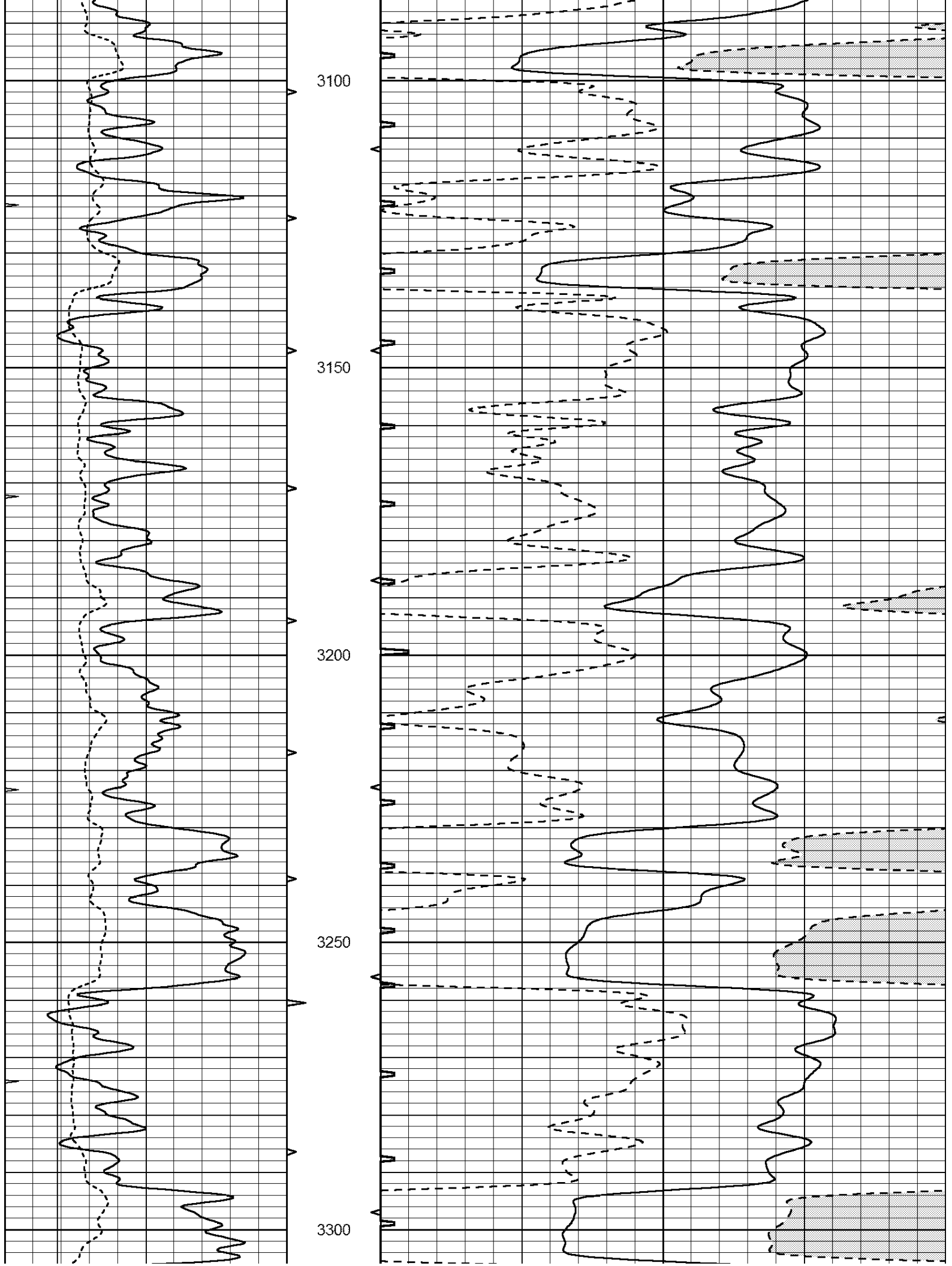
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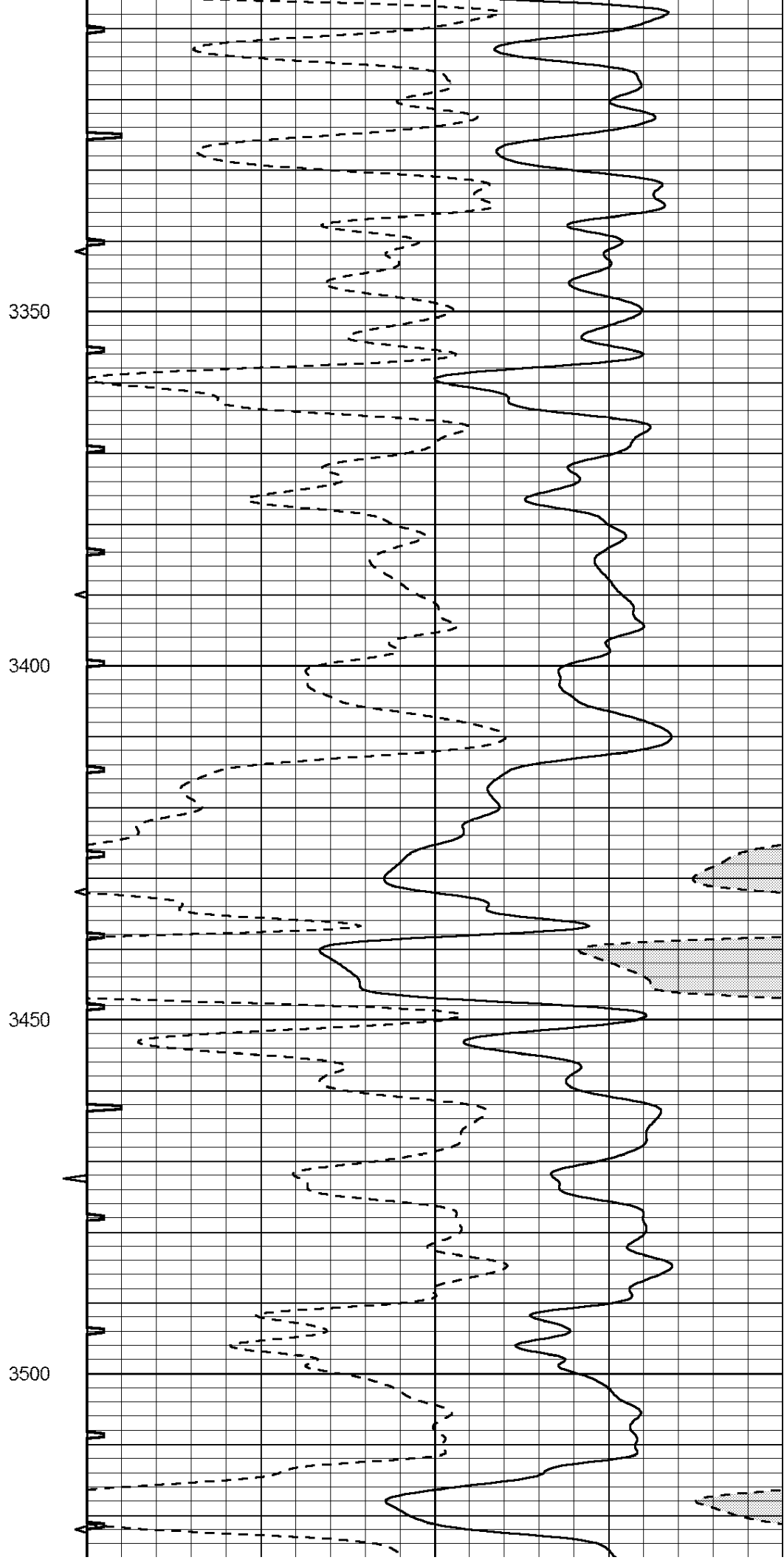
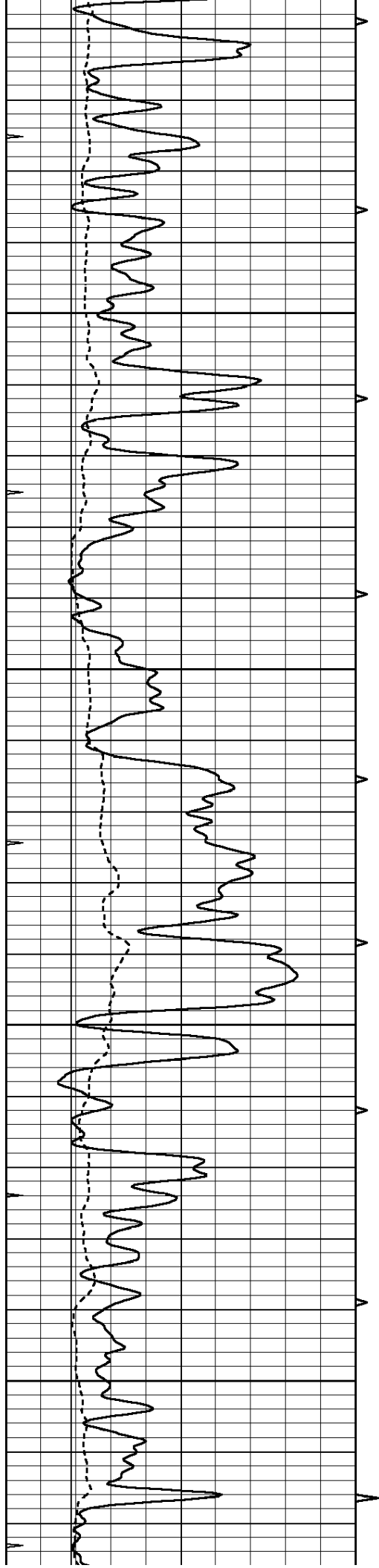
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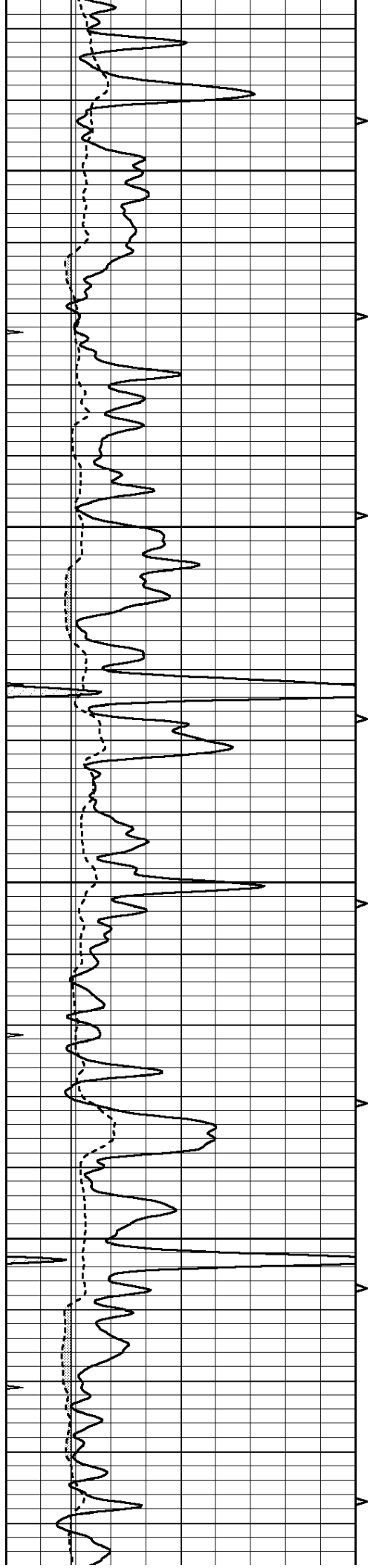
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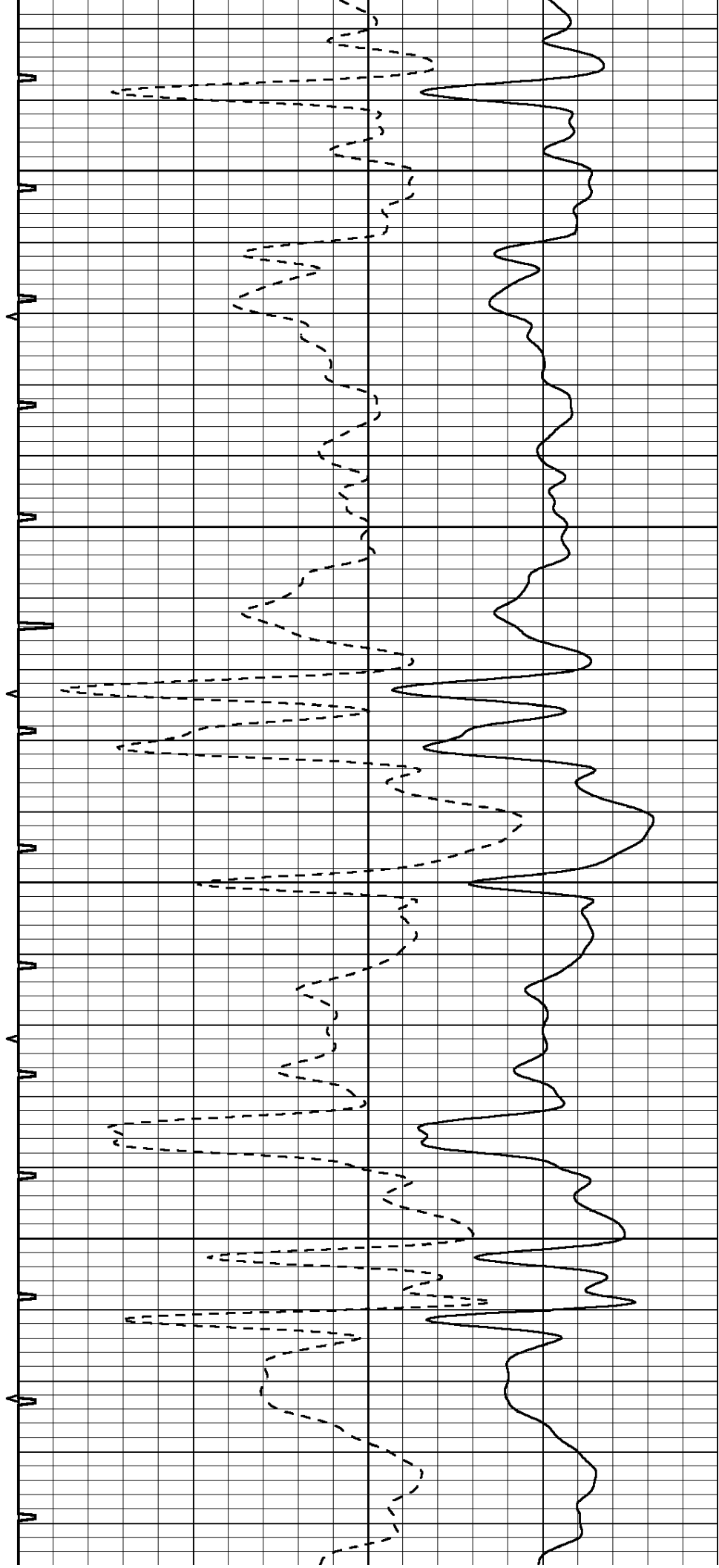


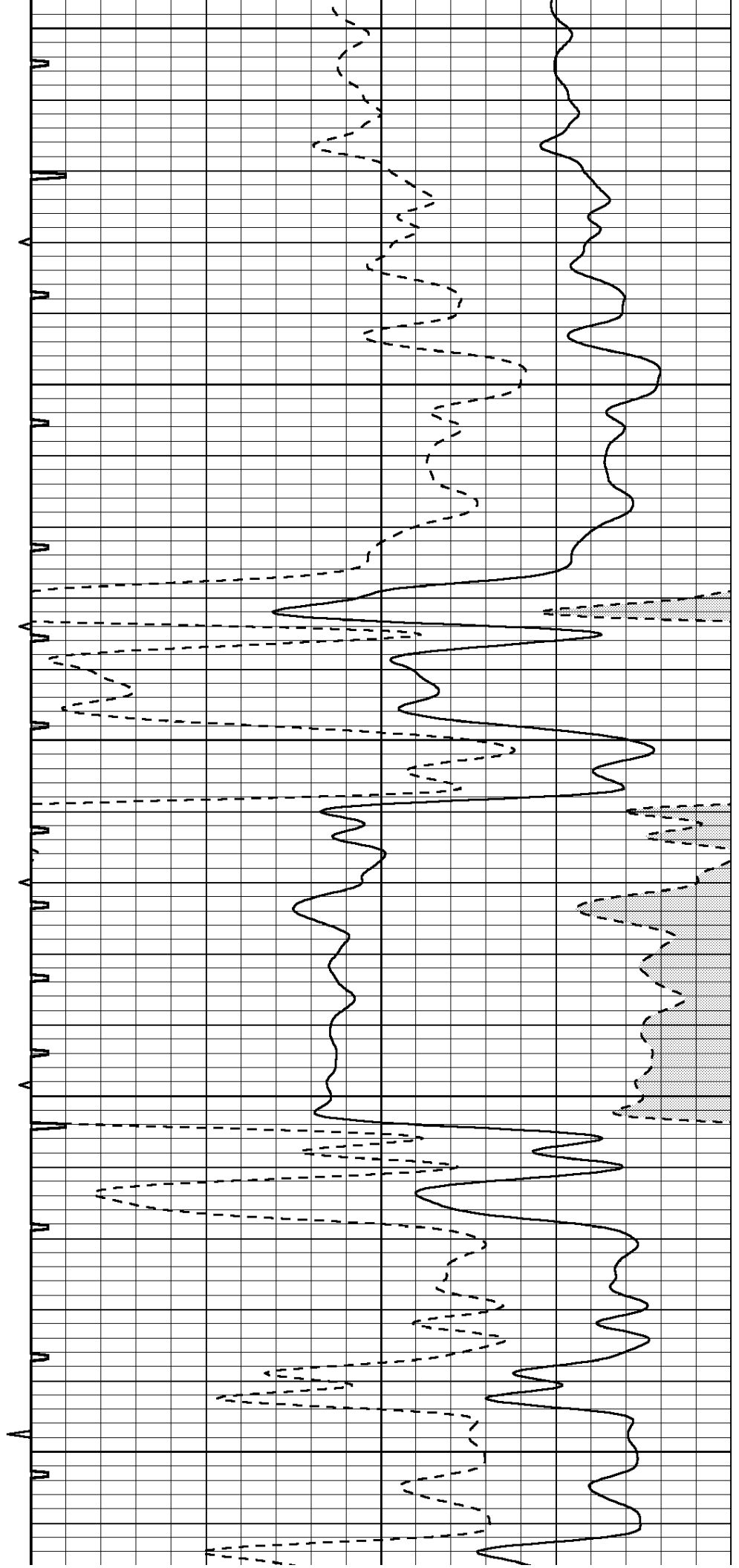
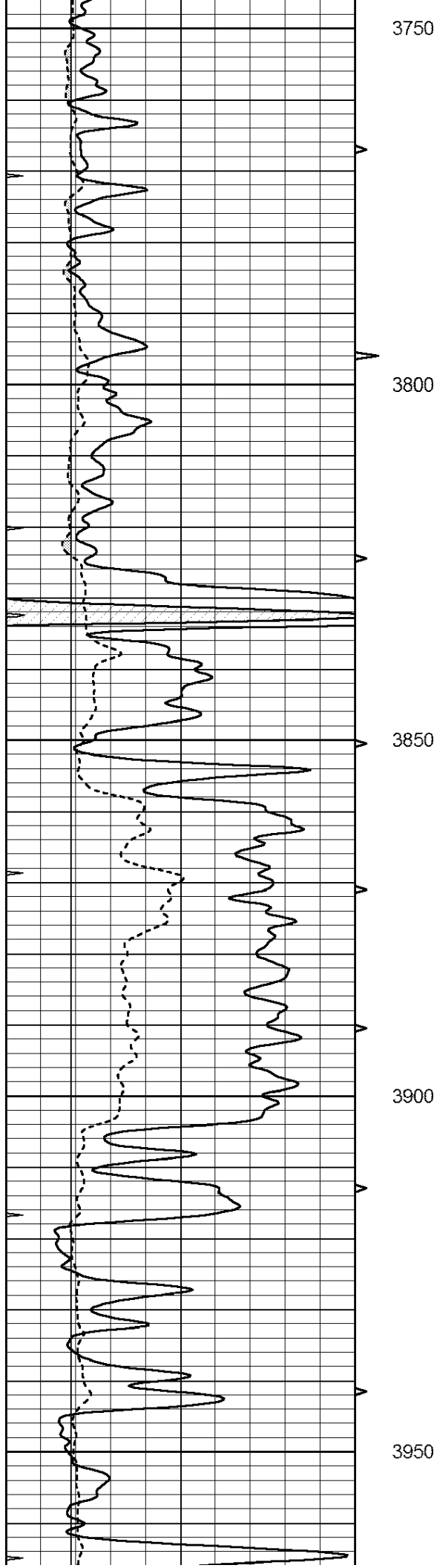
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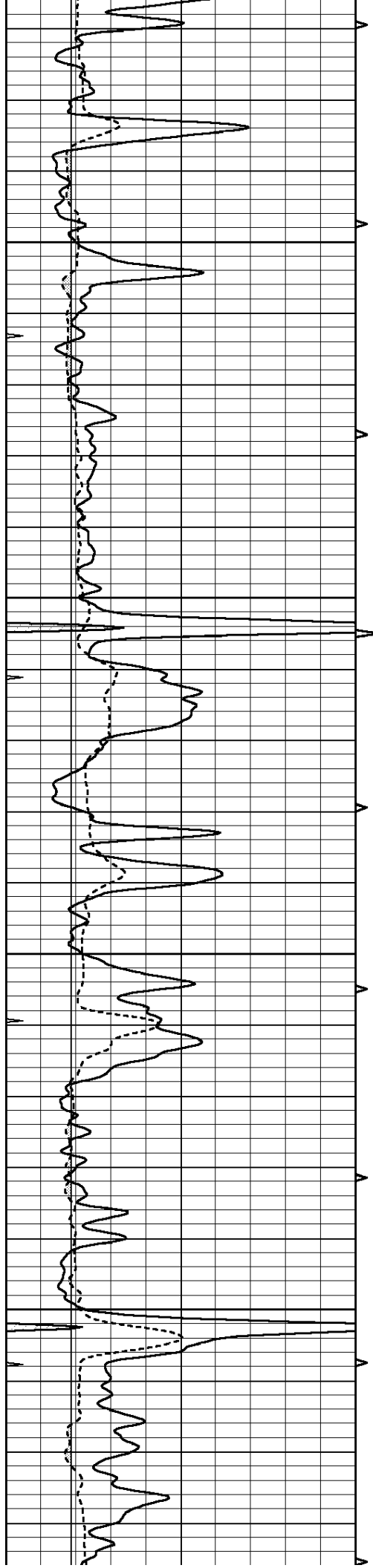
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3650

3700





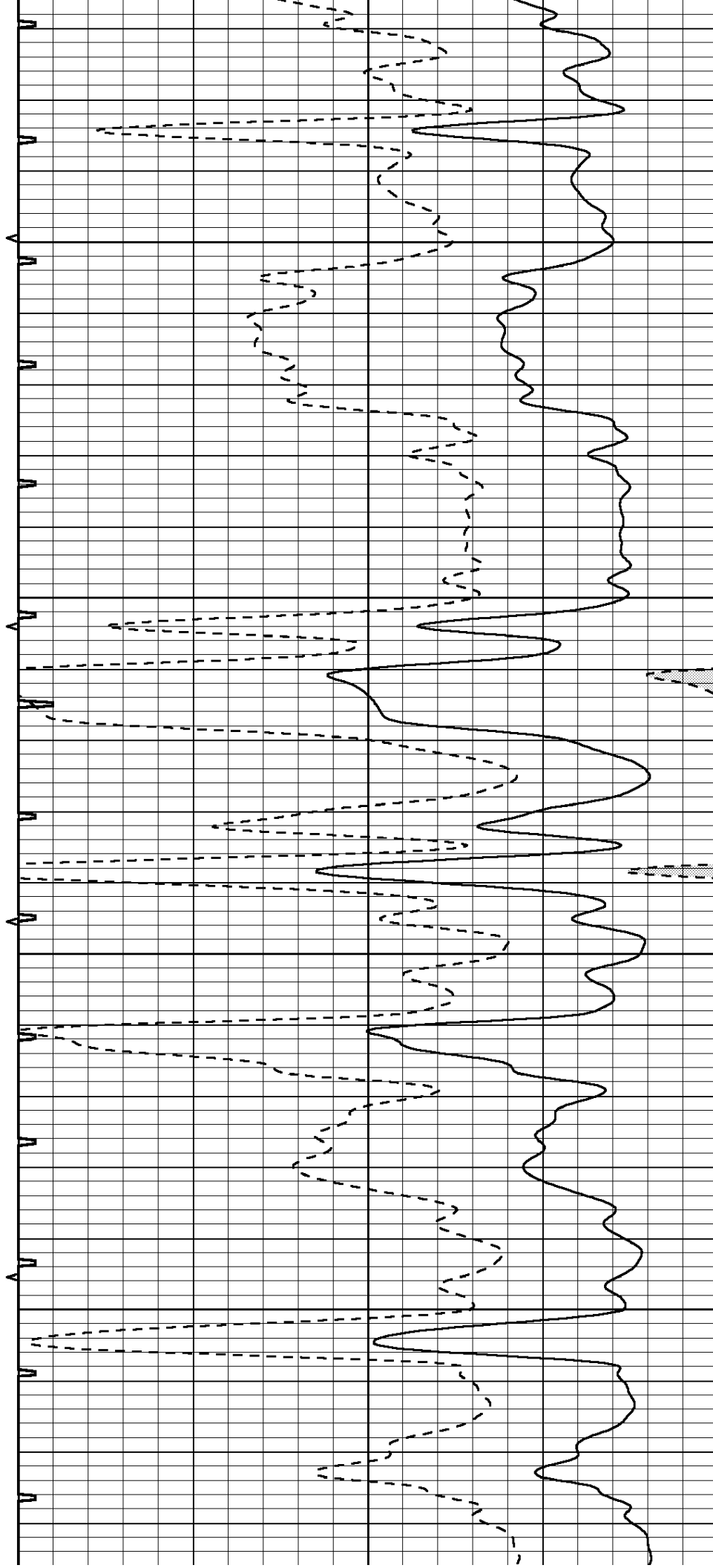


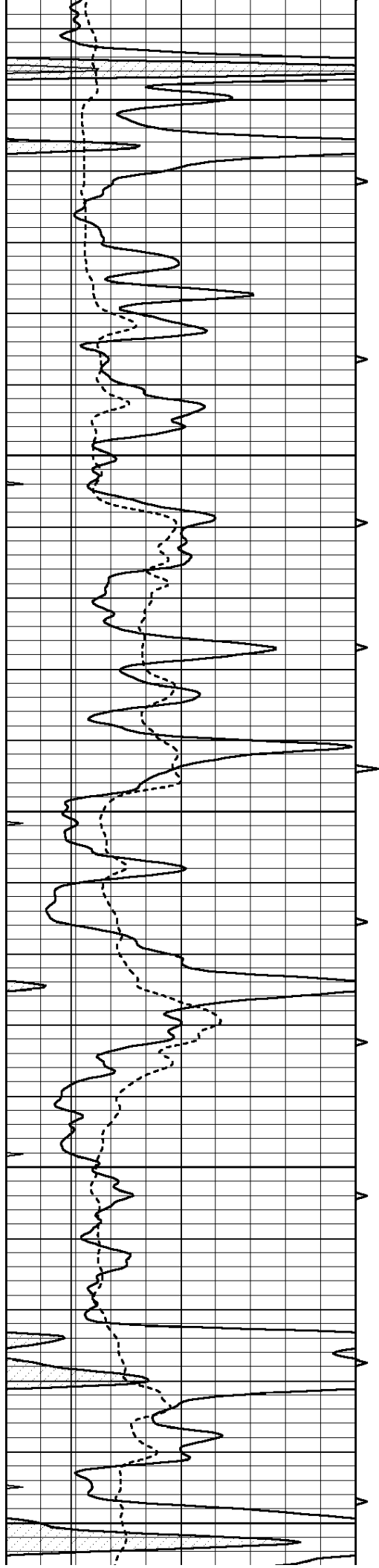
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4150





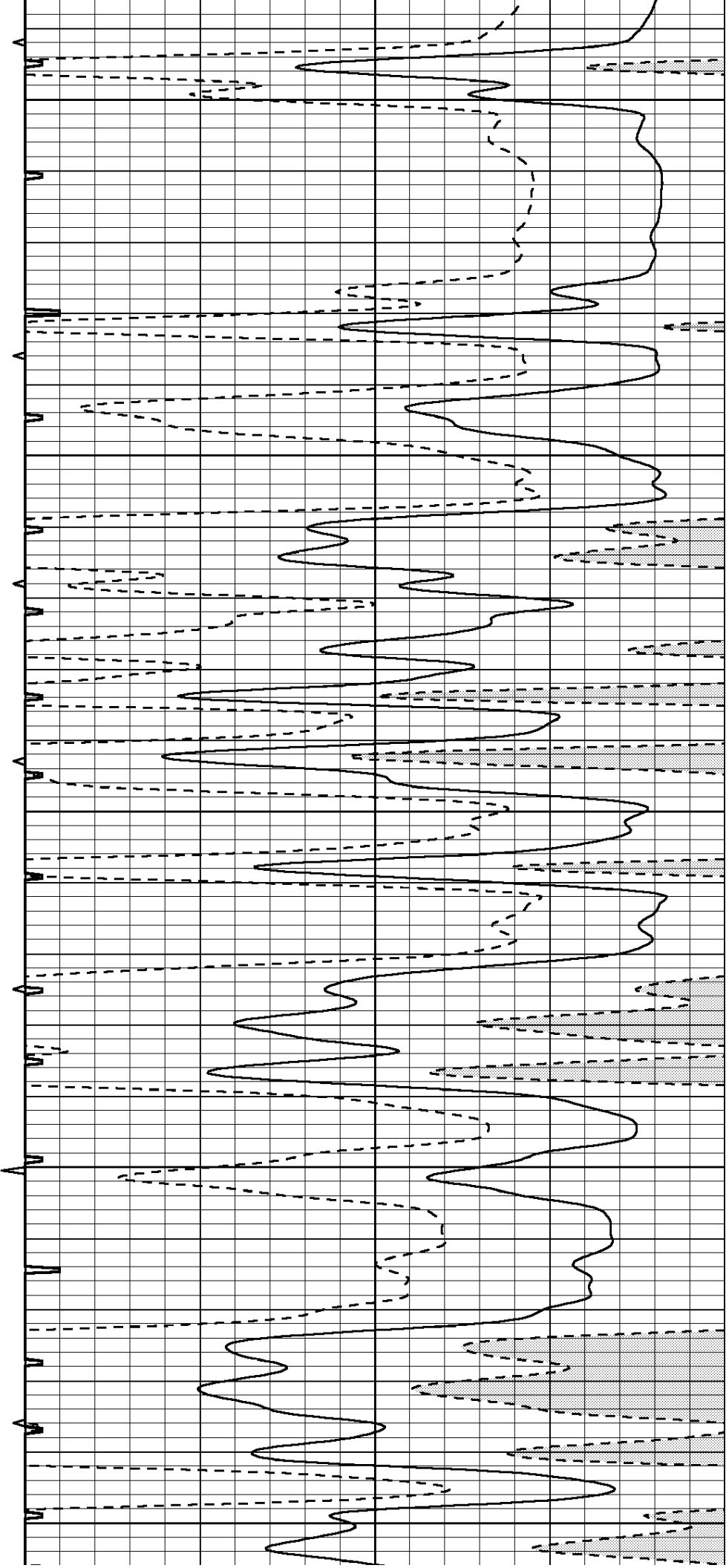
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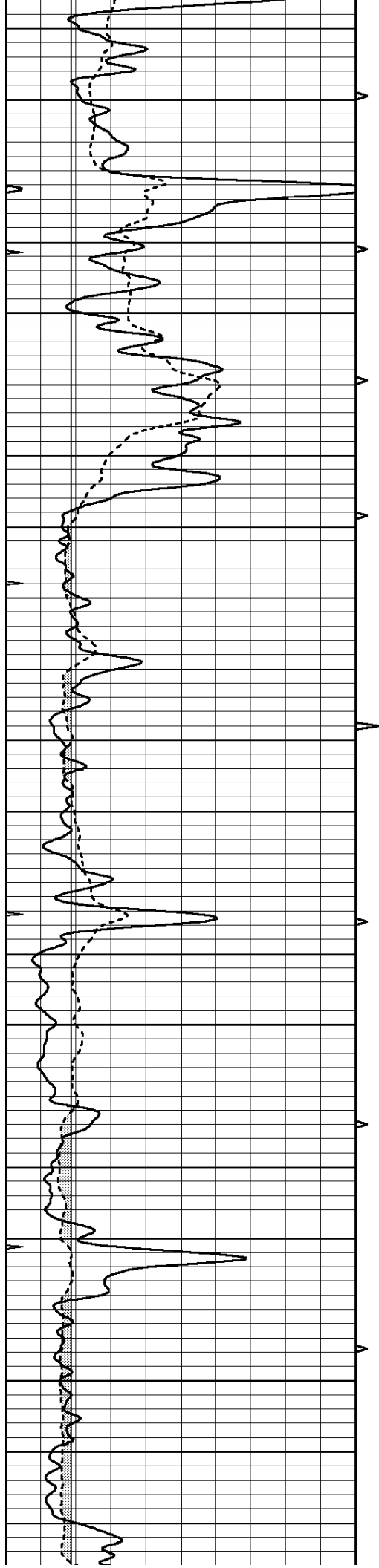
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4400



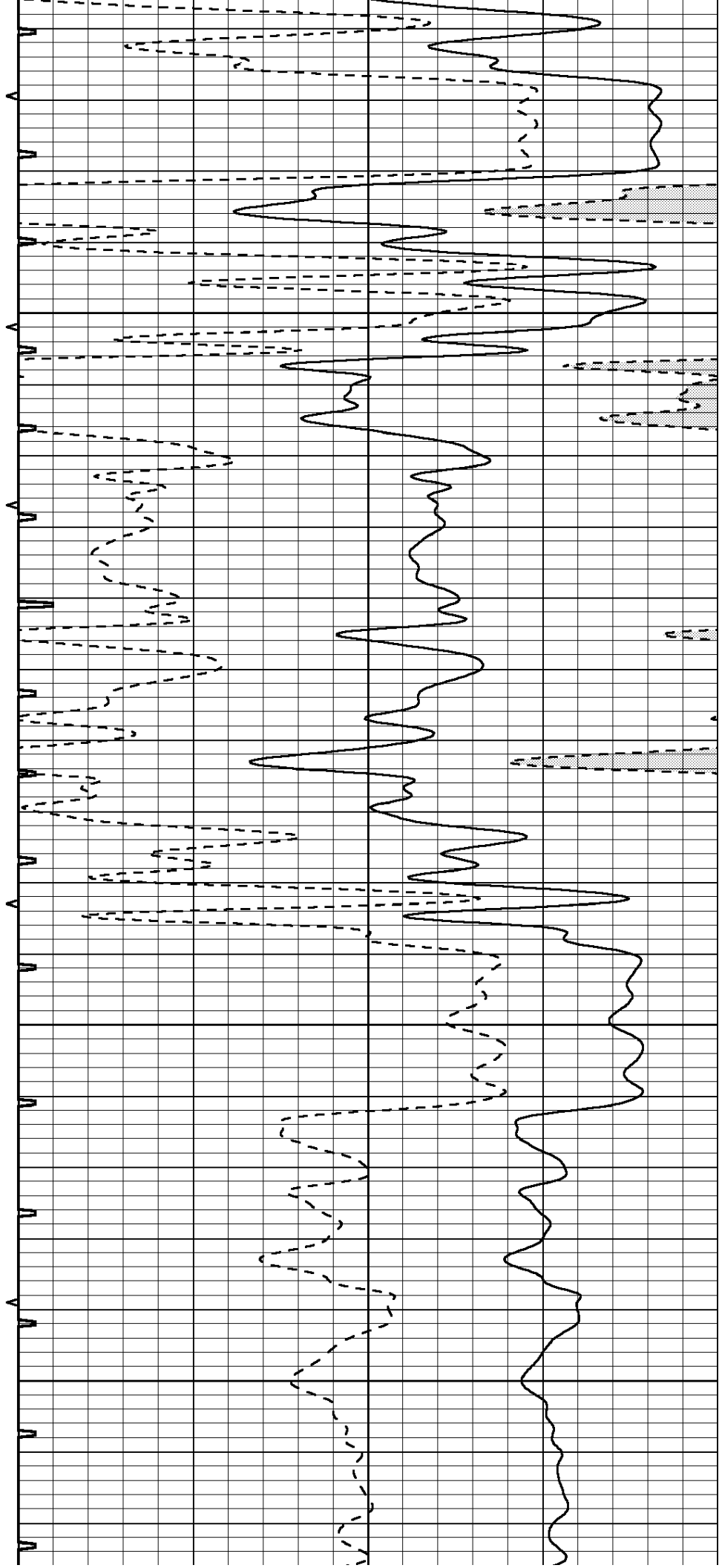


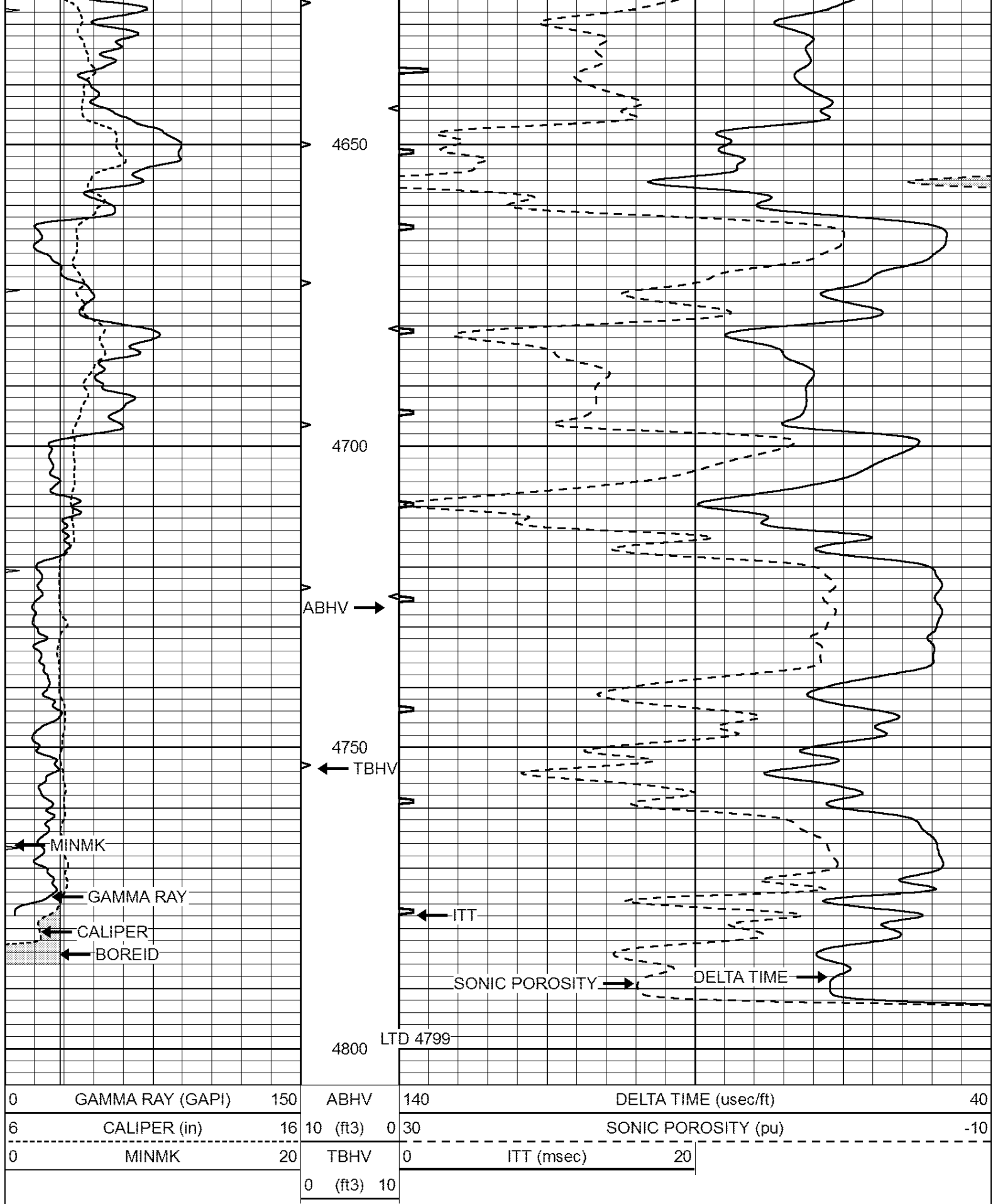
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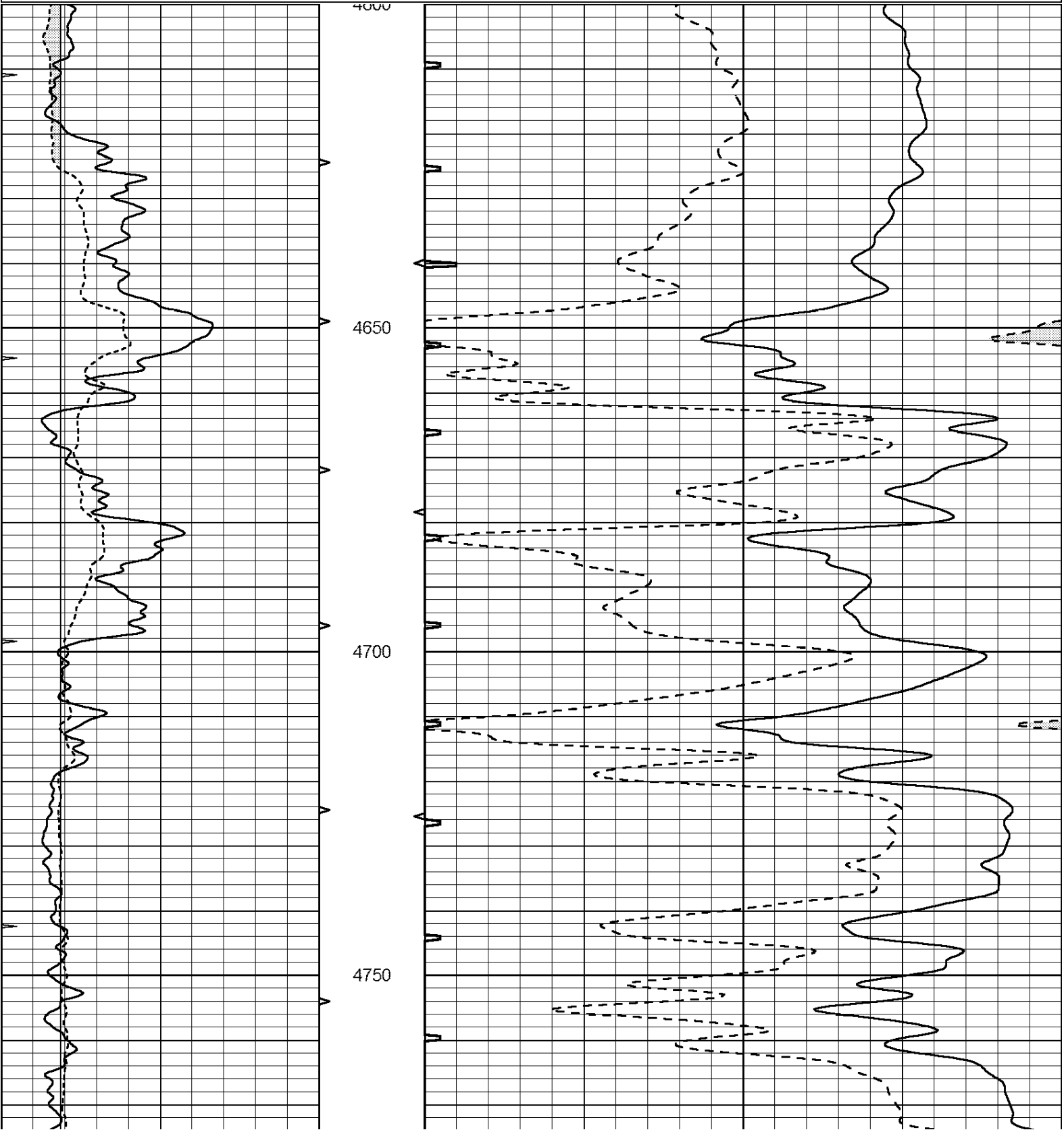


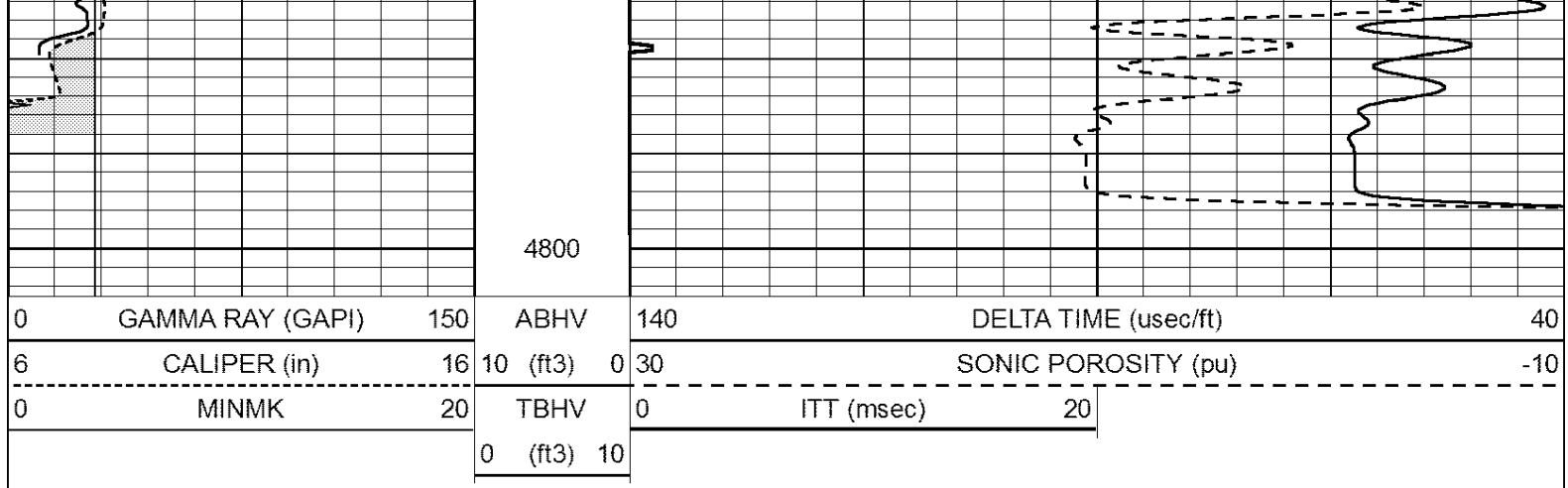


REPEAT SECTION

Database File: 3479ddn.db
Dataset Pathname: pass4
Presentation Format: _slt
Dataset Creation: Fri Feb 01 06:20:28 2019 by Log 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: 3479ddn.db
Dataset Pathname: pass4
Dataset Creation: Fri Feb 01 06:20:28 2019 by Log Open-Cased 090629

MICRO Calibration Report

Serial Number: MICRO3
Tool Model: PROBE
Performed: Sat Jan 05 10:53:05 2019

Caliper Calibration:	Gain=5.761	Offset=-22.902
References	Low Cal	High Cal
Readings	7.000	14.000
	5.339	6.500

1.5" Calibration:	Gain=120.000	Offset=0.400
	Low Cal	High Cal
References	0.000	20.000
Readings	0.004	0.228

2" Calibration:	Gain=110.553	Offset=0.220
	Low Cal	High Cal
References	0.000	20.000
Readings	0.005	0.175

Gamma Ray Calibration Report

Serial Number: GR5
Tool Model: OPEN
Performed: Tue Jan 01 05:52:14 2019

Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.5800	GAPI/cps