

SONIC LOG

Company	MAI OIL OPERATIONS, INC.	Company	MAI OIL OPERATIONS, INC.
Well	RUGAN #1	Well	RUGAN #1
Field	RUGAN	Field	RUGAN
County	STAFFORD	County	STAFFORD
State	KANSAS	State	KANSAS
Location:	API # : 15-185-23985-00-00	Other Services	CDL/CNL/DIL MEL
	745 FNL & 1734' FWL		
	SEC 2 TWP 21S RGE 11W		
Permanent Datum	GROUND LEVEL	Elevation	1762'
Log Measured From	KELLY BUSHING 8' A.G.L.	K.B. 1770'	
Drilling Measured From	KELLY BUSHING	D.F. 1768	
		G.L. 1762	
Date	10/19/17		
Run Number	TWO		
Depth Driller	3470		
Depth Logger	3471		
Bottom Logged Interval	3462		
Top Log Interval	00		
Casing Driller	8 5/8" @ 474		
Casing Logger	474		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.6/52		
pH / Fluid Loss	10.0/8.0		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	1.1@58		
Rmt @ Meas. Temp	.83@58		
Rmc @ Meas. Temp	1.32@58		
Source of Rmt / Rmc	MEASURED		
Rm @ BHT	.57@111		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	///		
Maximum Recorded Temperature	111F		
Equipment Number	4010		
Location	HAYS, KANSAS		
Recorded By	GUS PFANENSTIEL		
Witnessed By	JIM MUSGROVE		

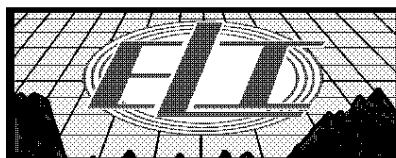
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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on 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
ELLINWOOD SOUTH ON SE 100 RD. 3 MILES
TO 50 RD, EAST 5 MILES TO 150 AVE.
SOUTH 2 MILES.

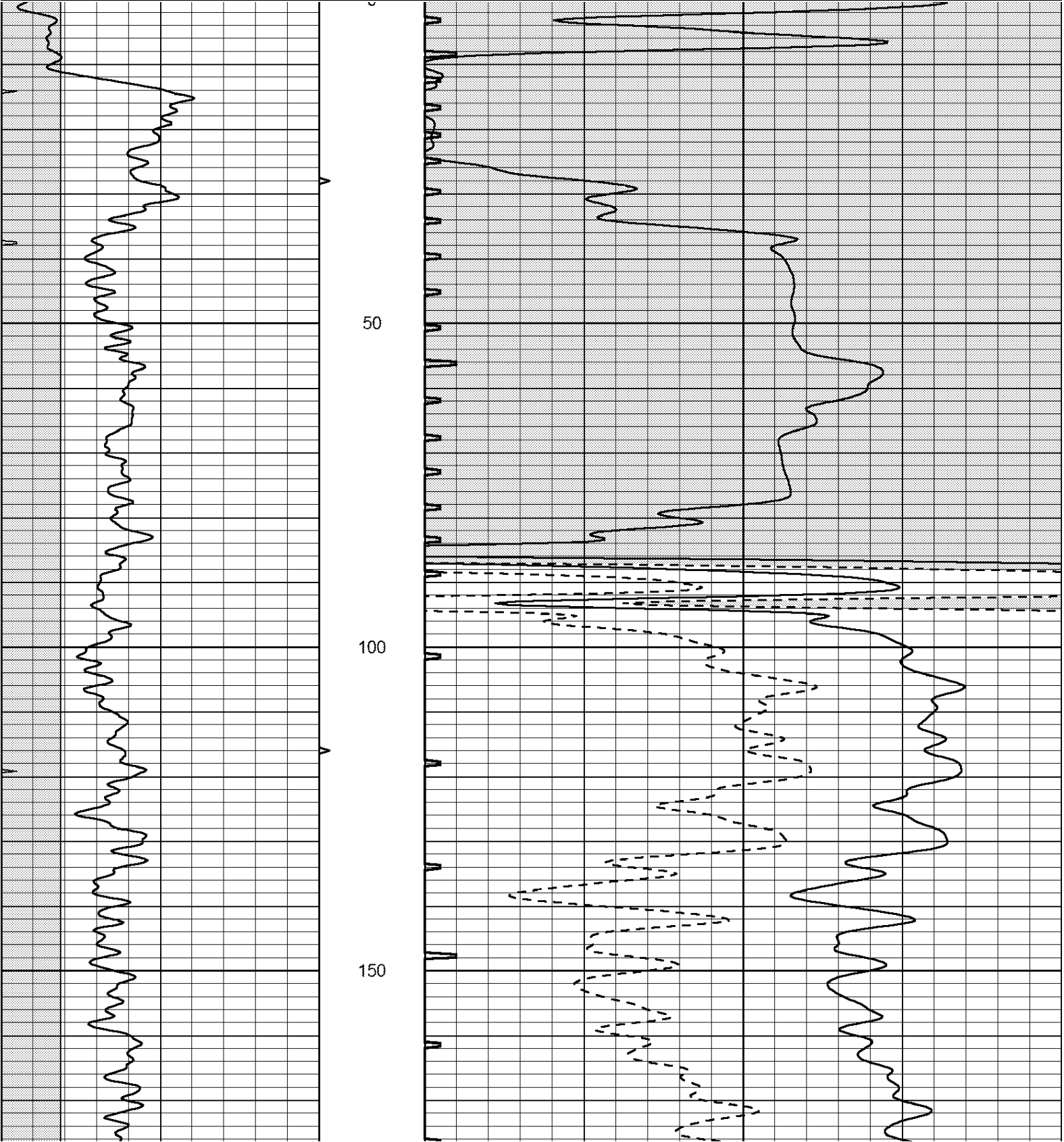


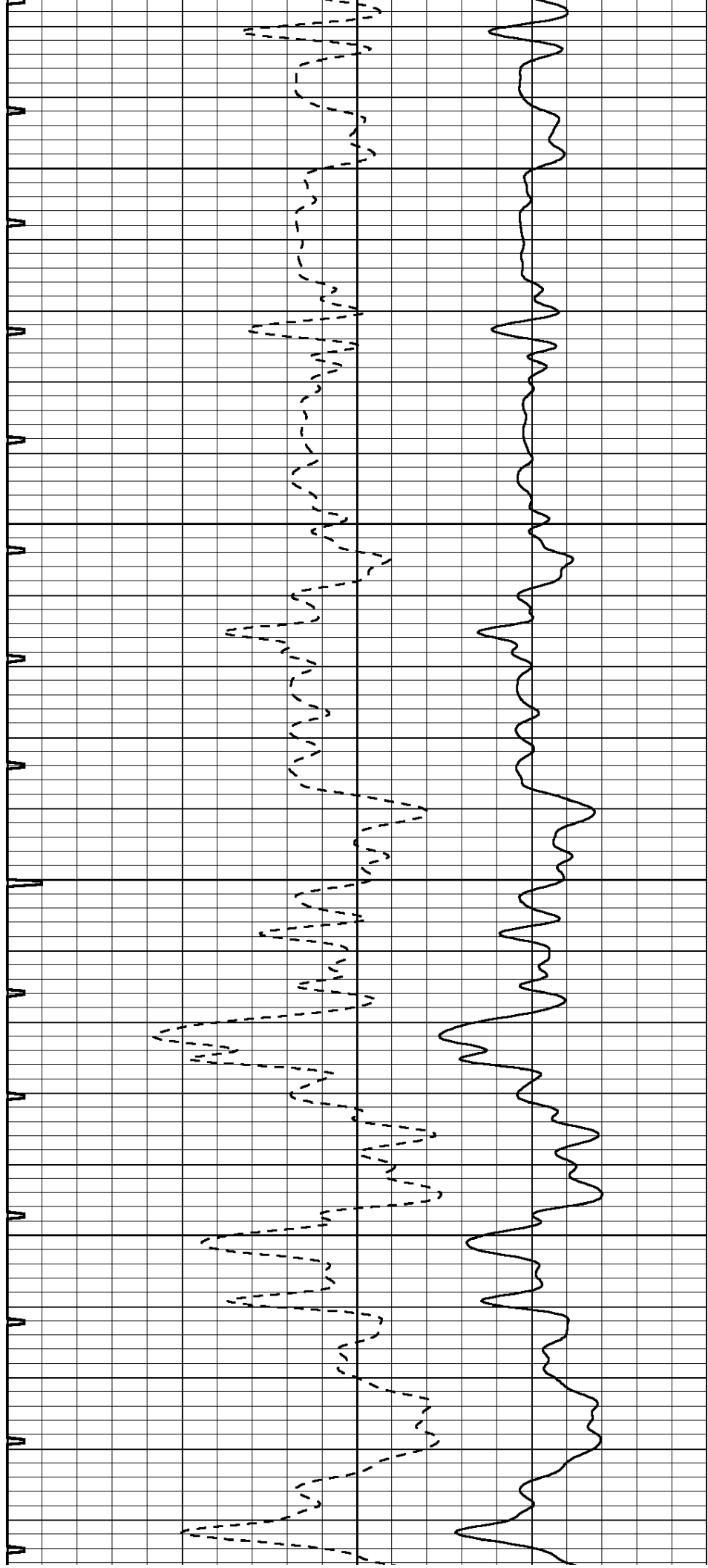
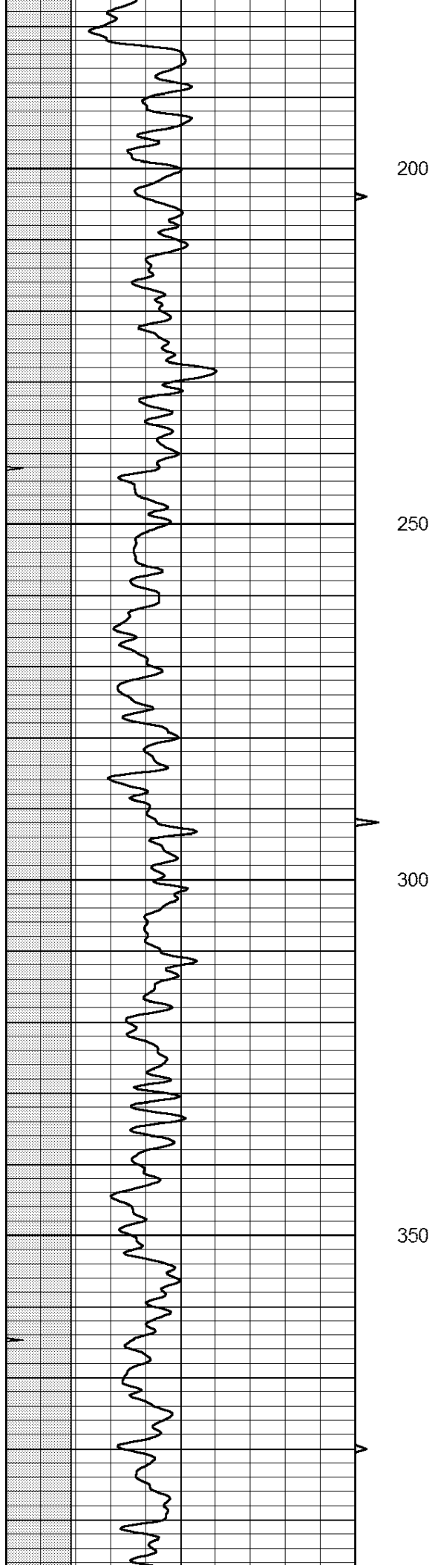
MAIN PASS

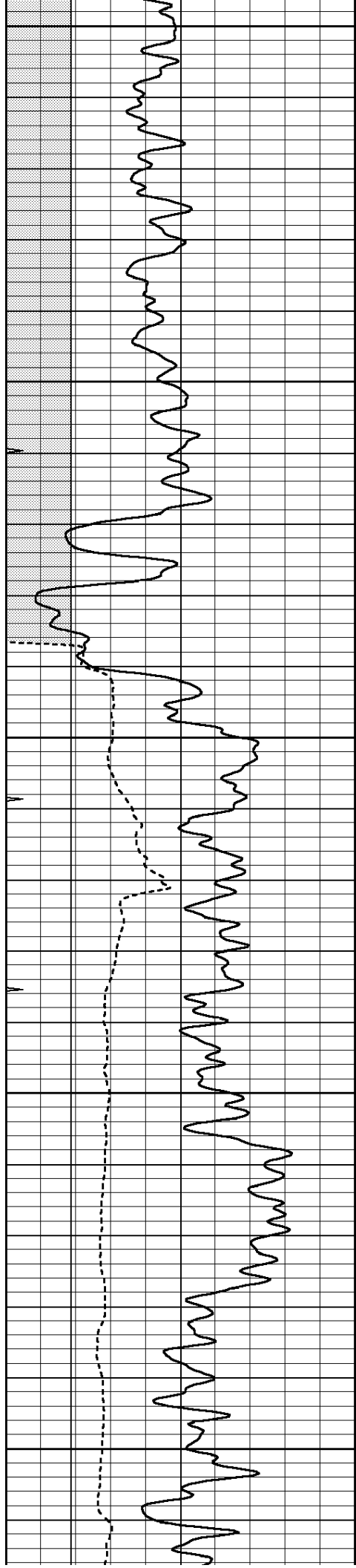
Database File: 2103ddn.db
Dataset Pathname: pass5
Presentation Format: _slt
Dataset Creation: Thu Oct 19 07:42:19 2017 by Log Open-Cased 090629
Charted by: Depth in Feet scaled 1:240

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				







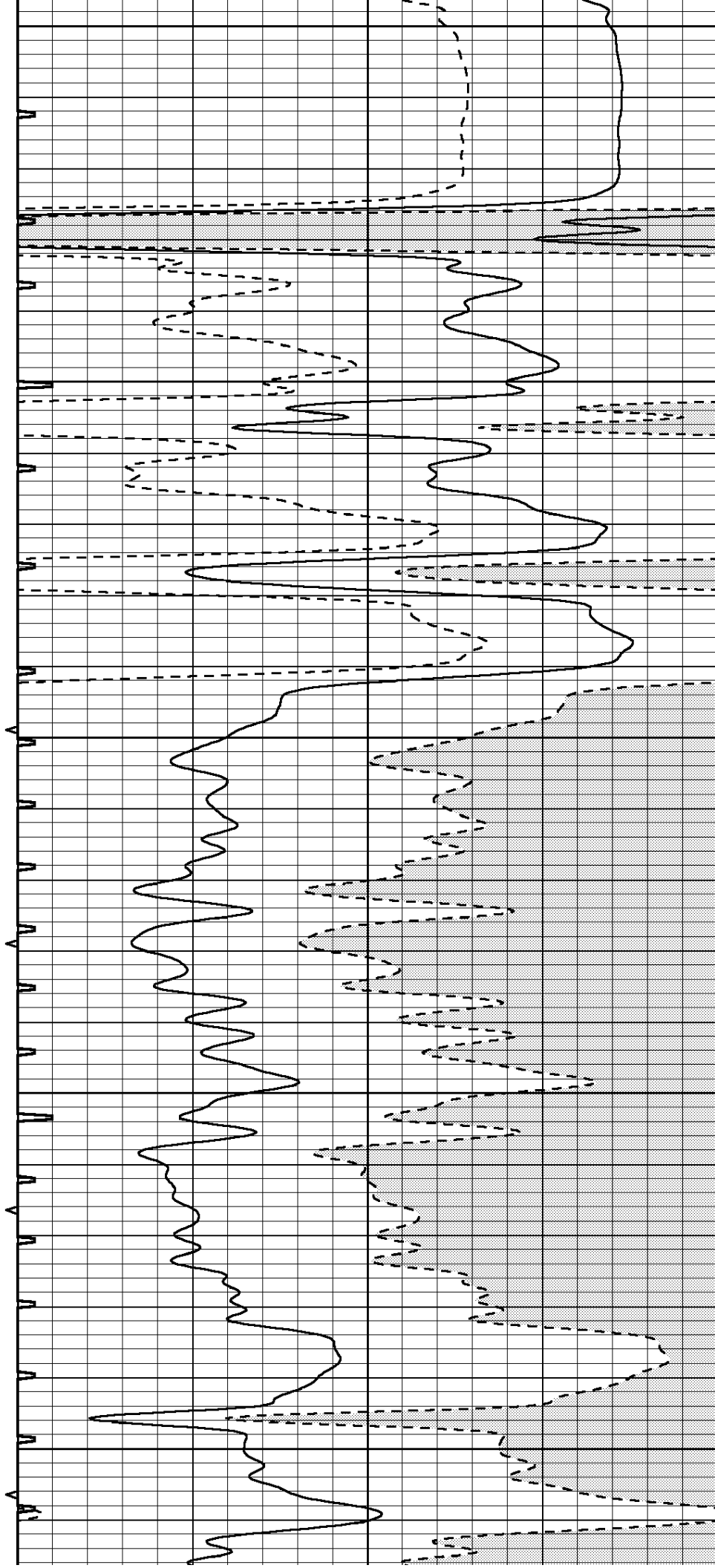
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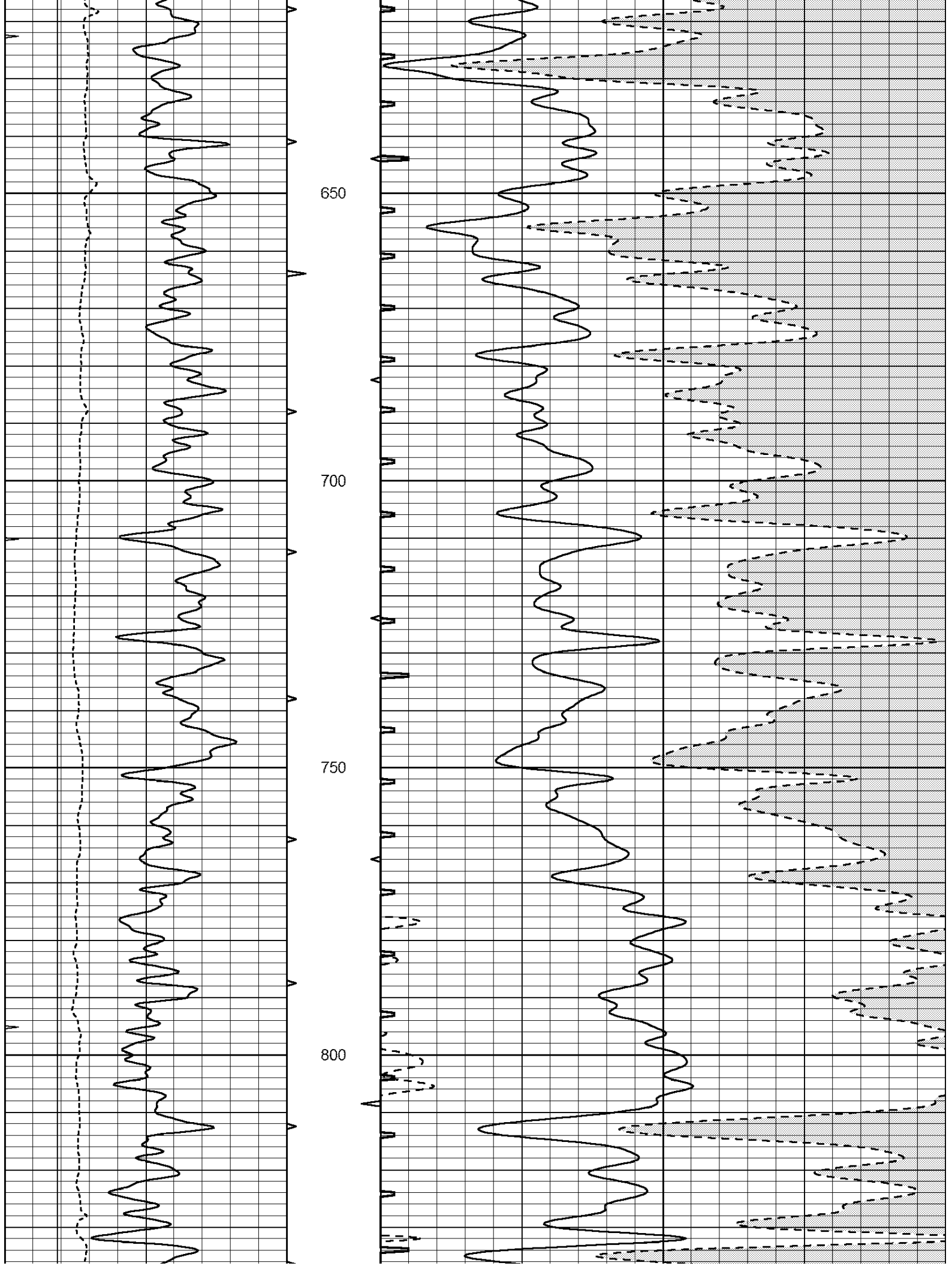
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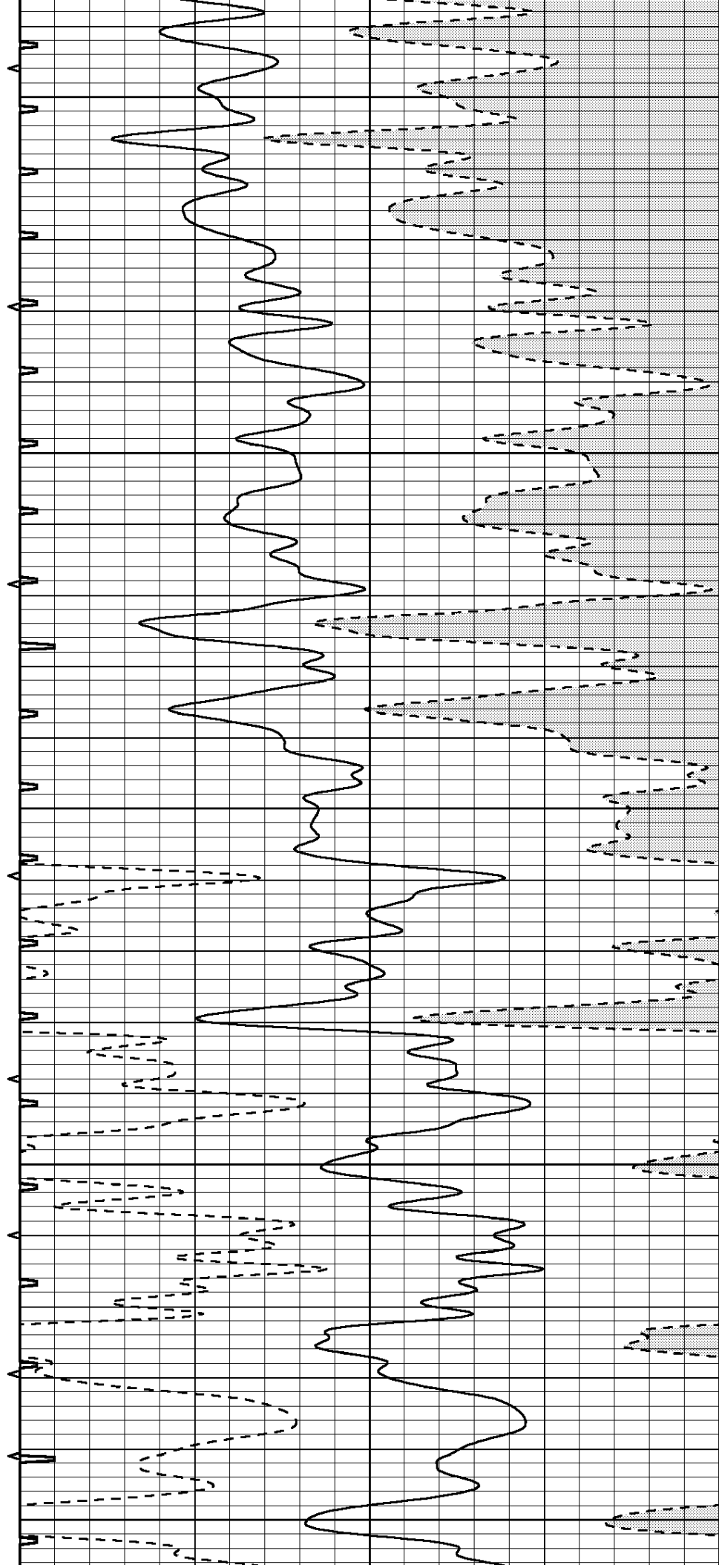
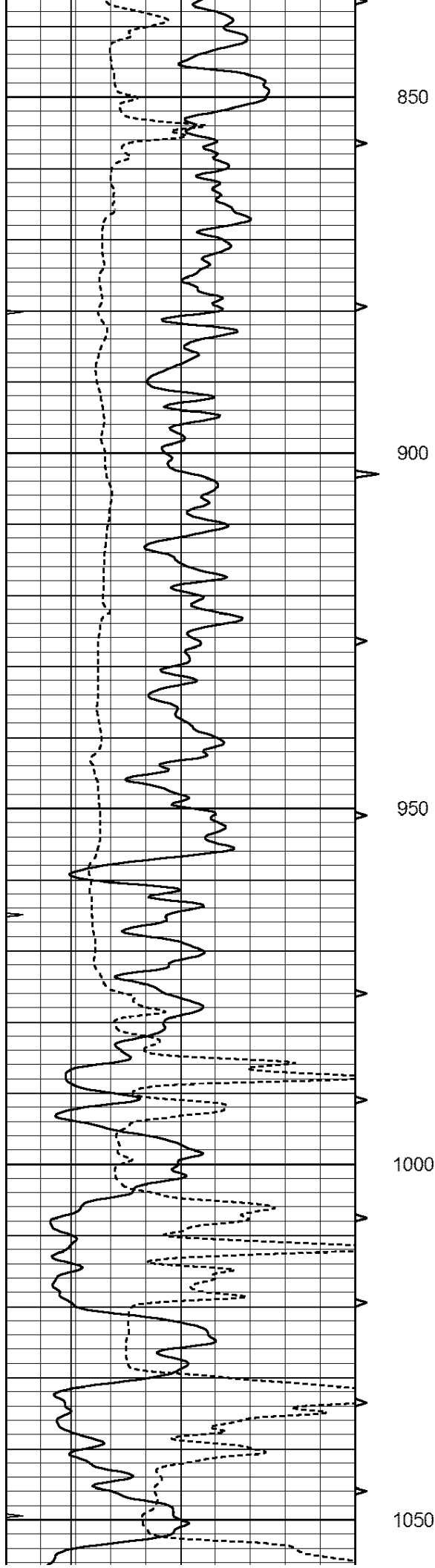
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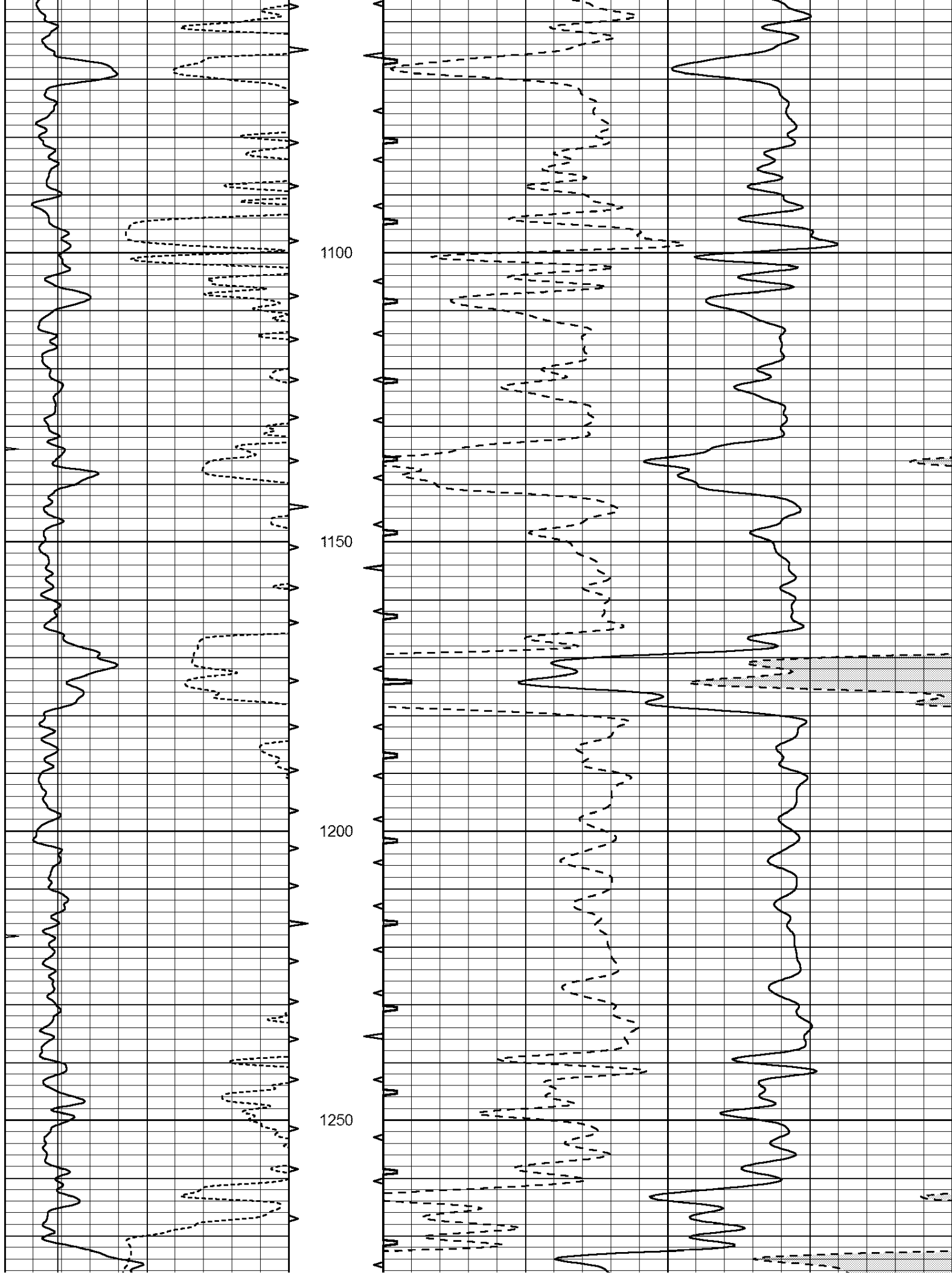
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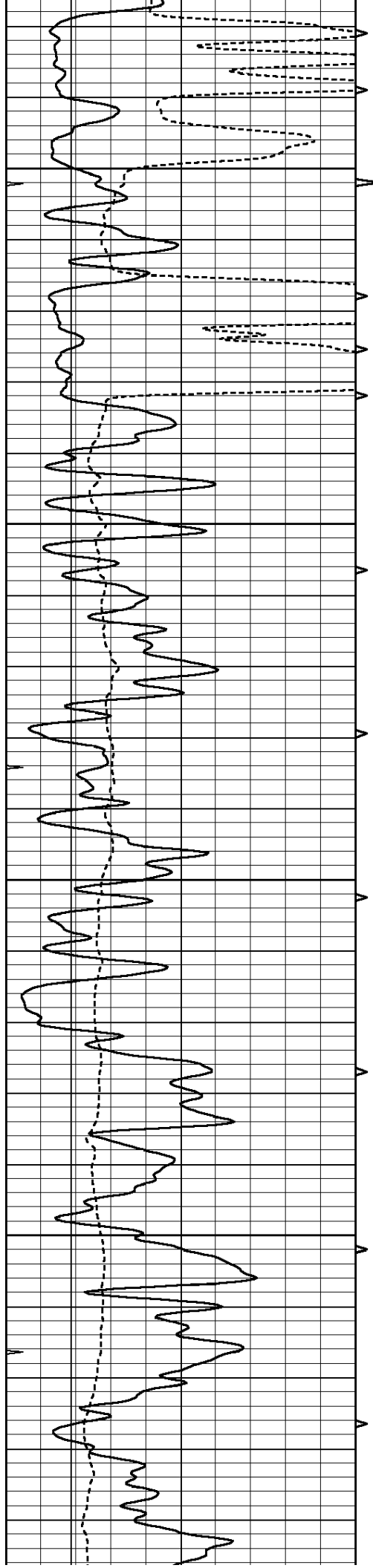
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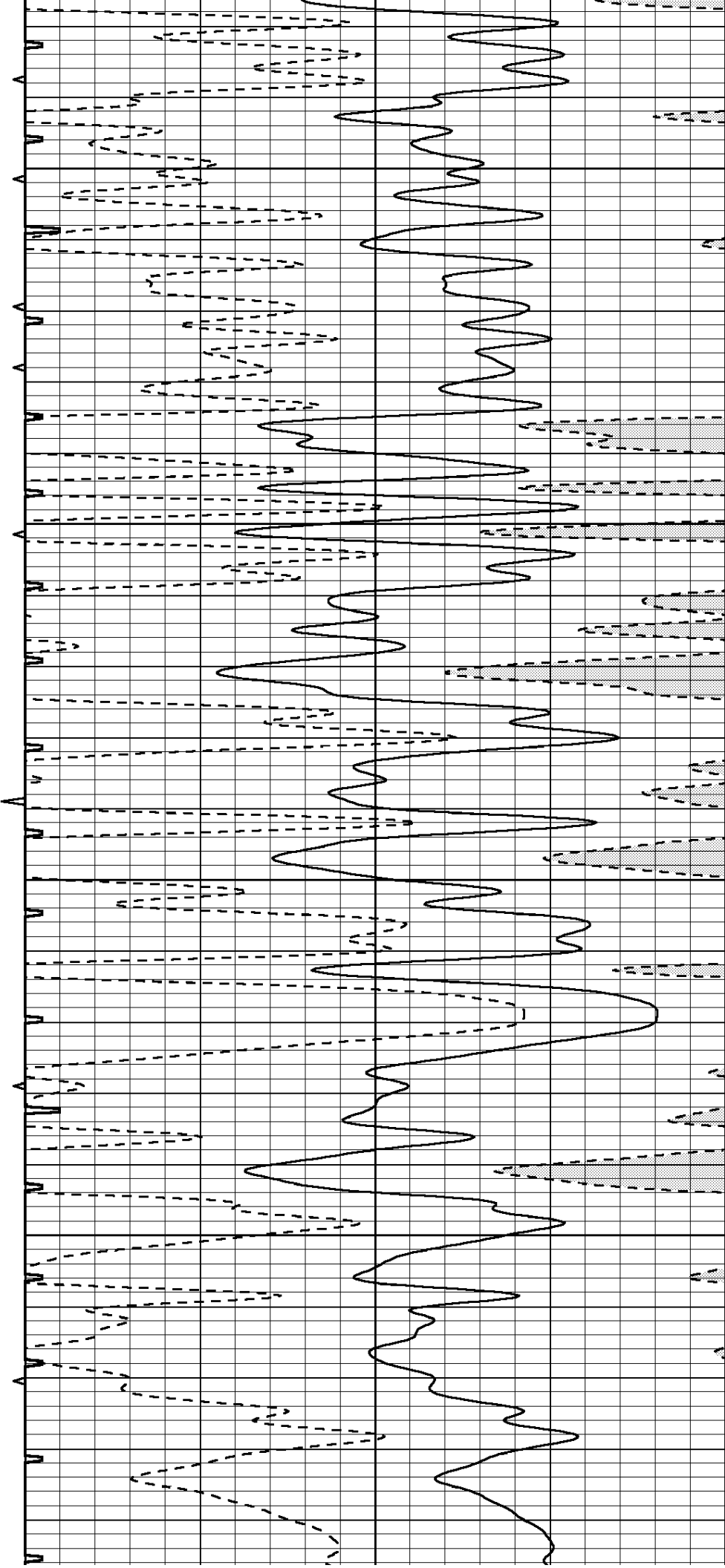


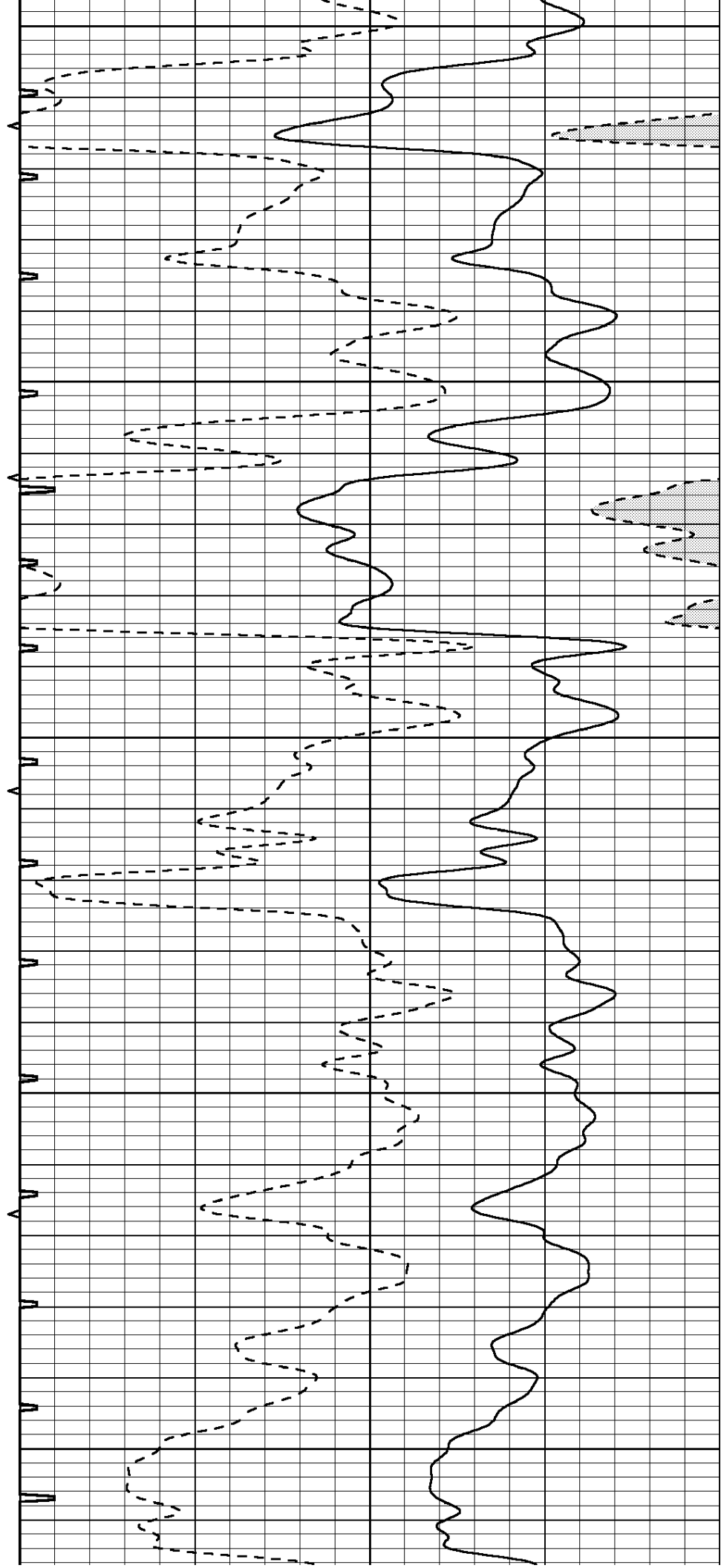
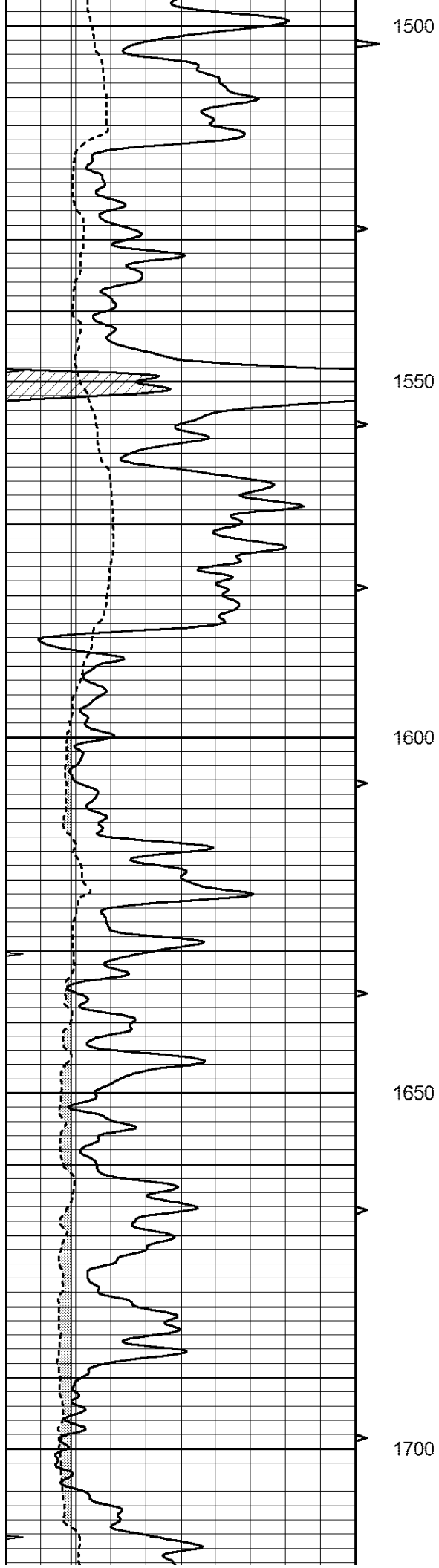
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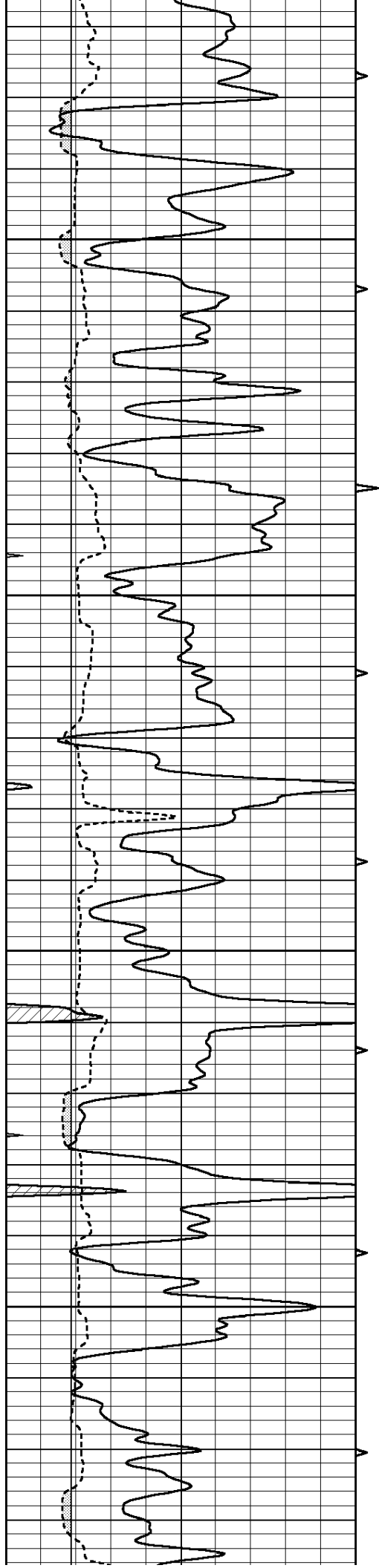
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1400

1450





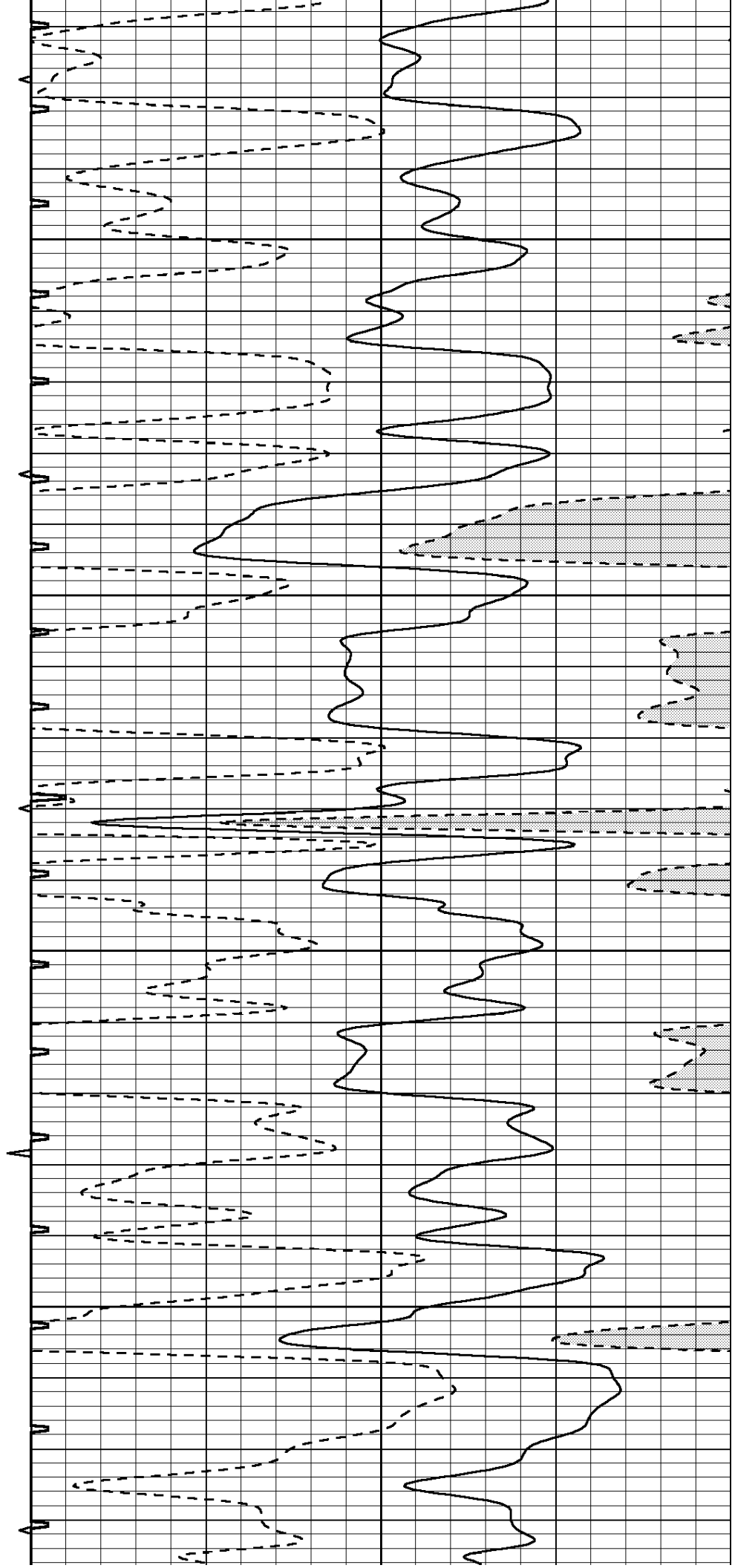


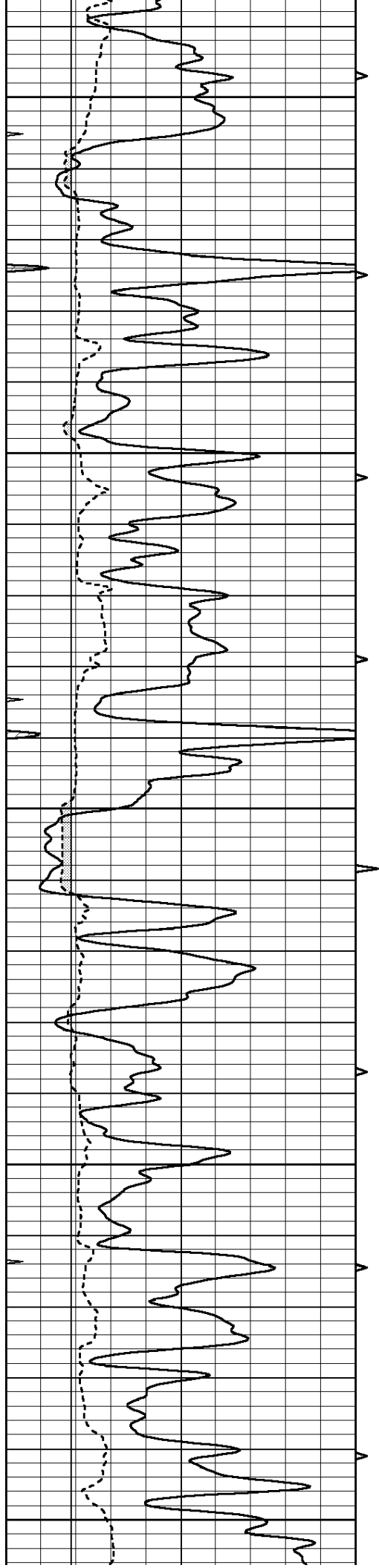
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1800

1850

1900





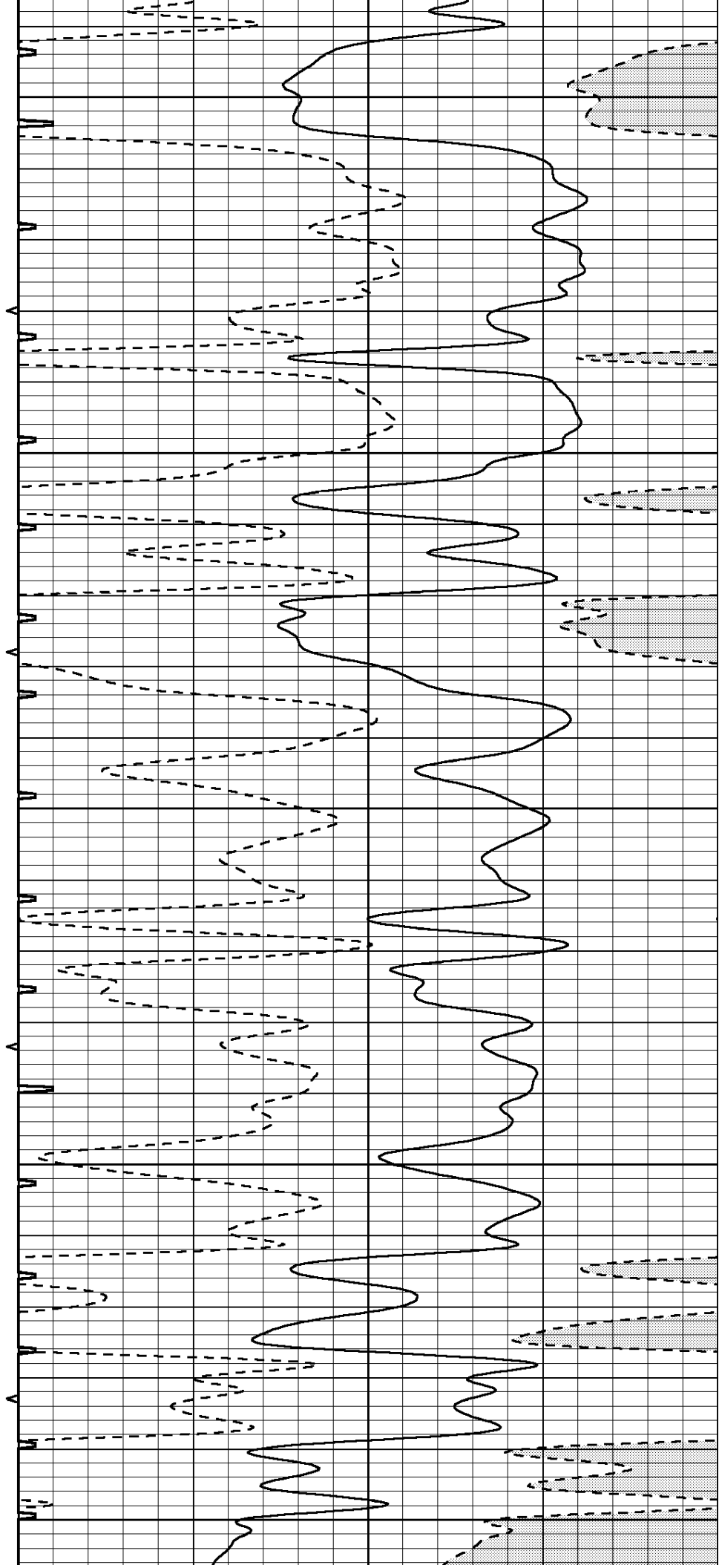
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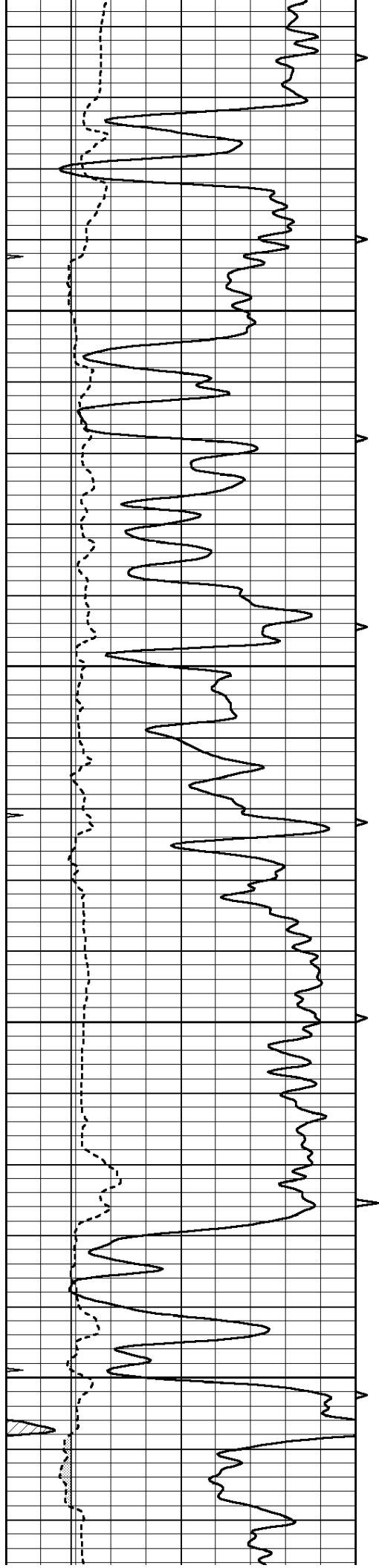
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2050

2100

2150



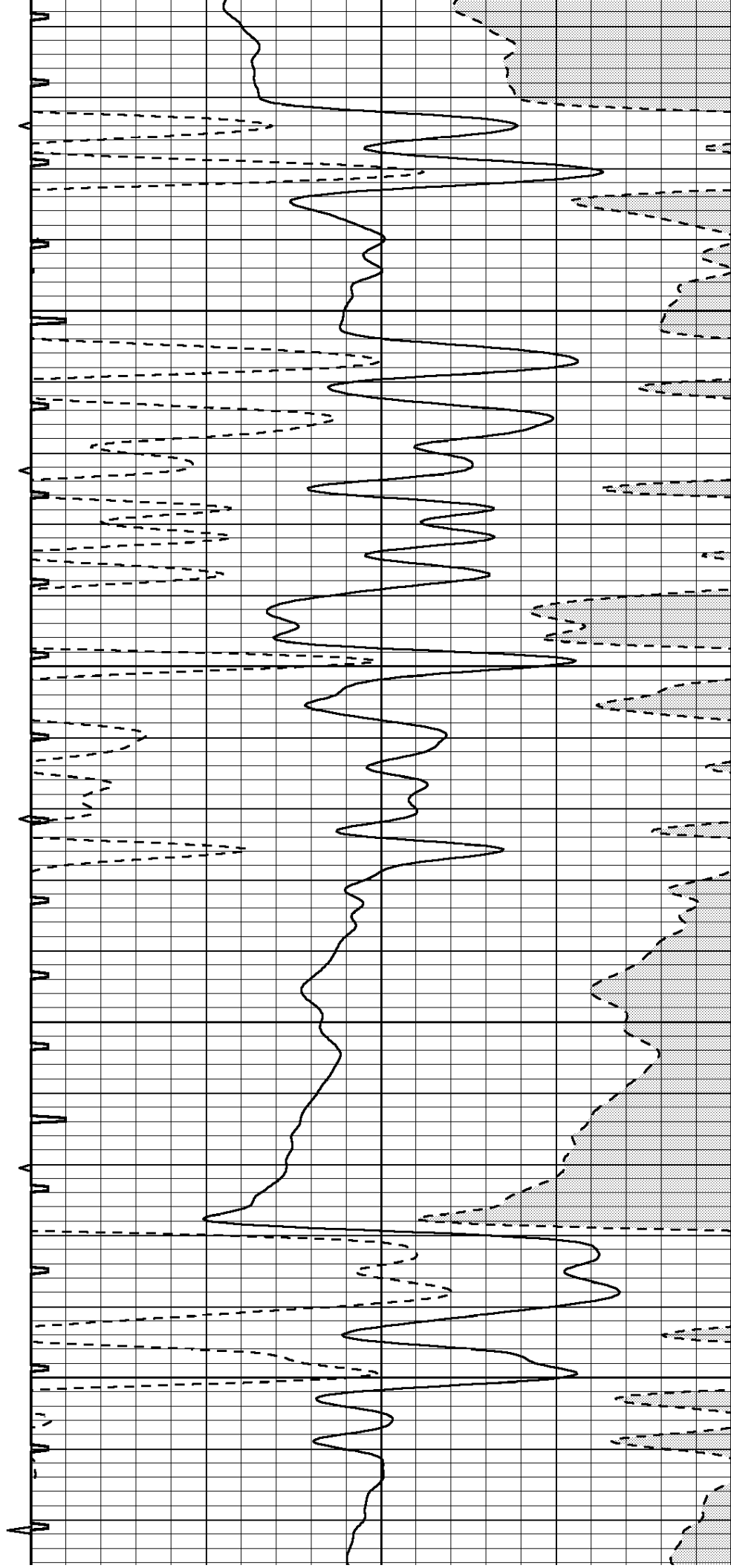


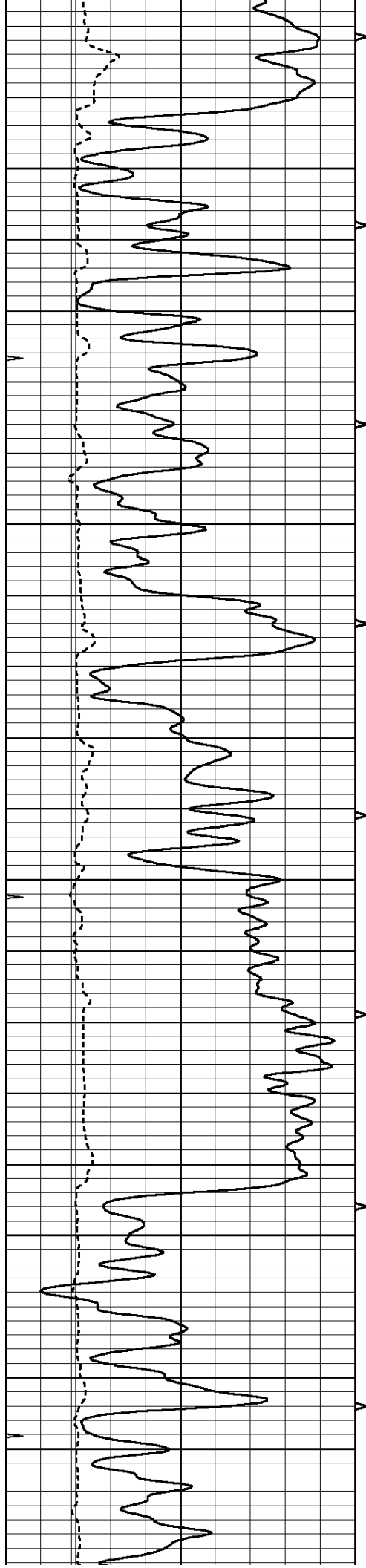
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2250

2300

2350



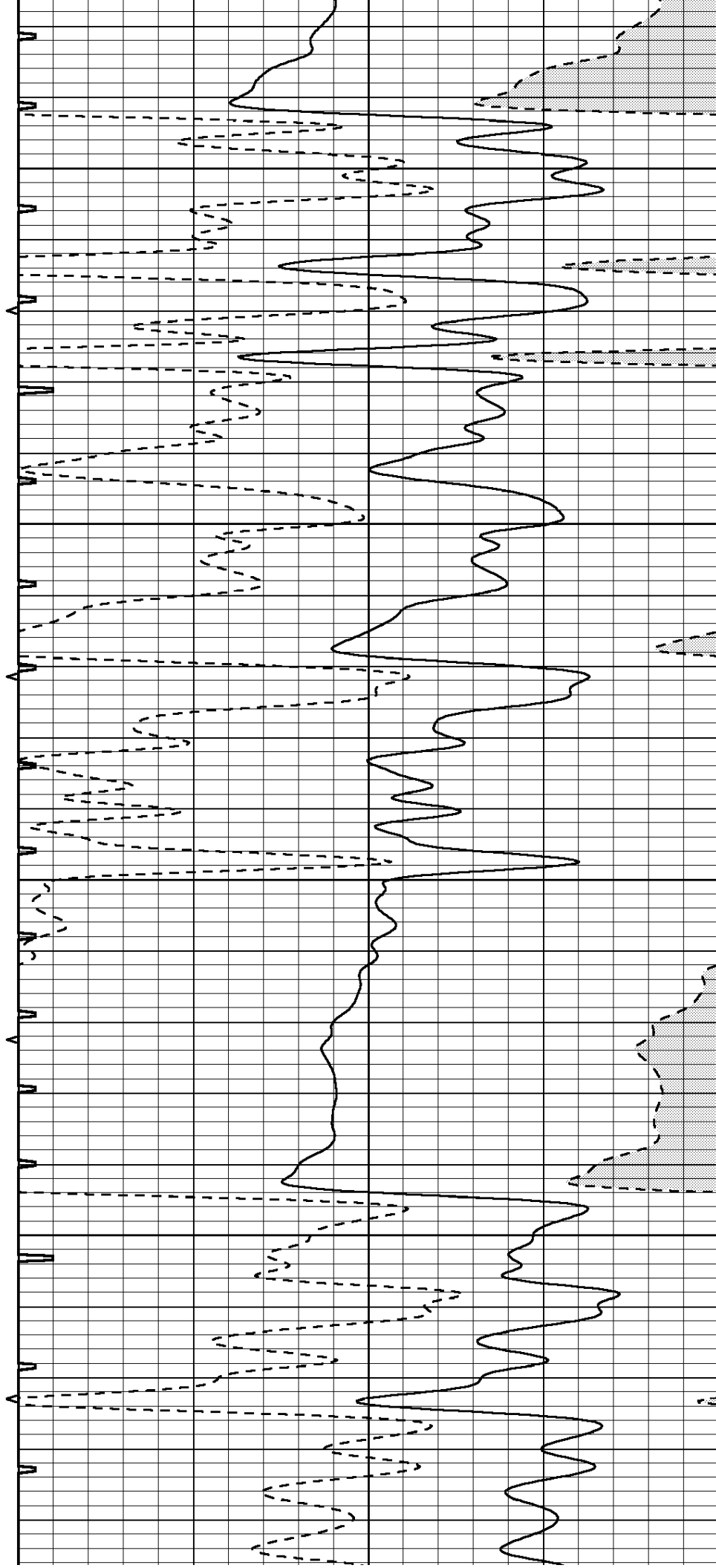


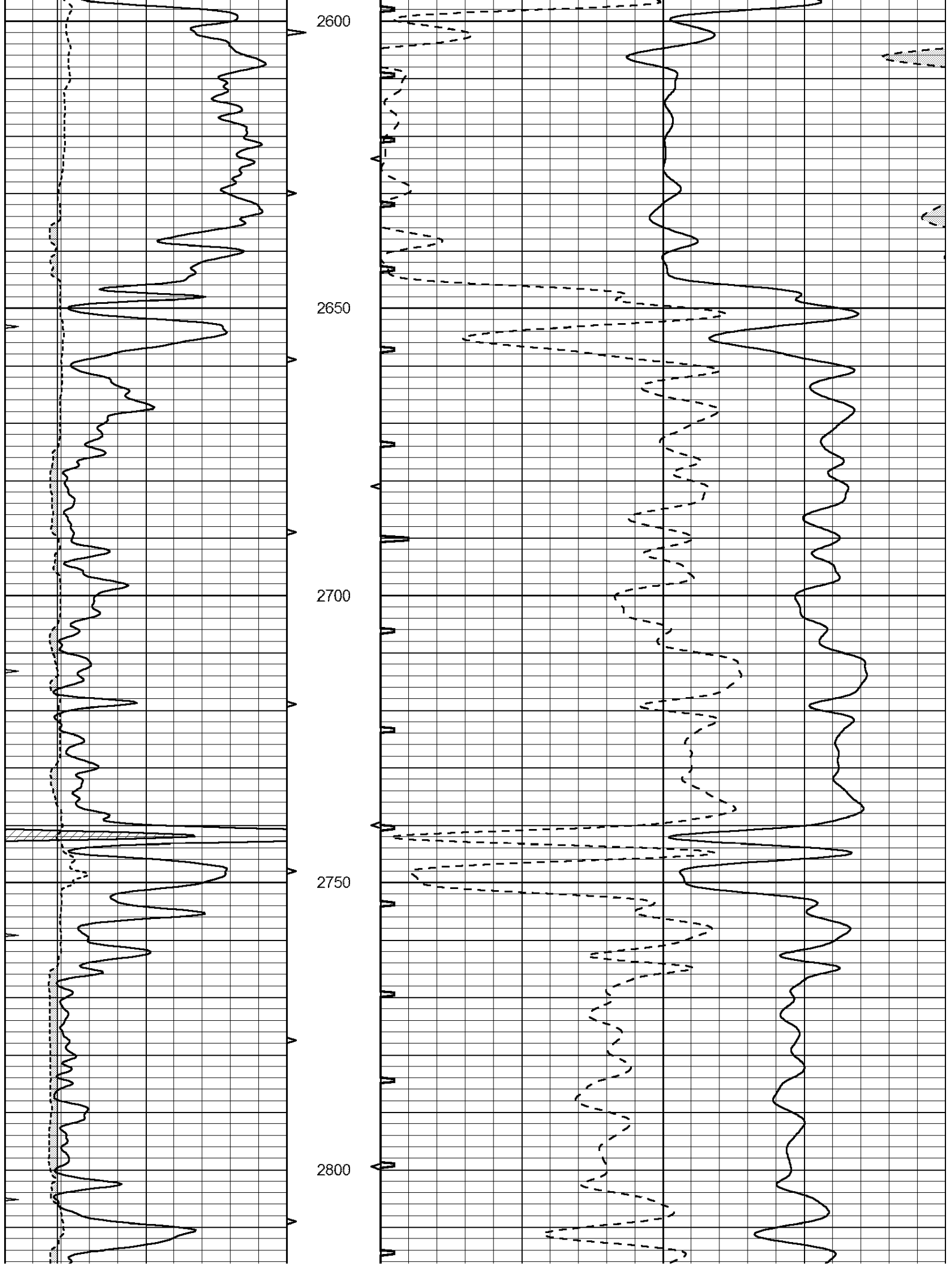
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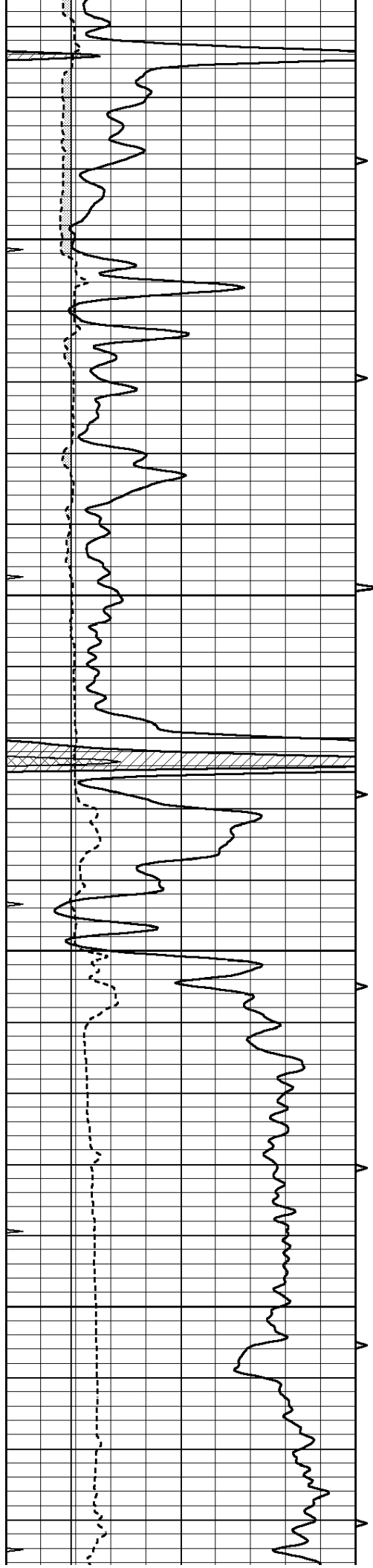
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2500

2550





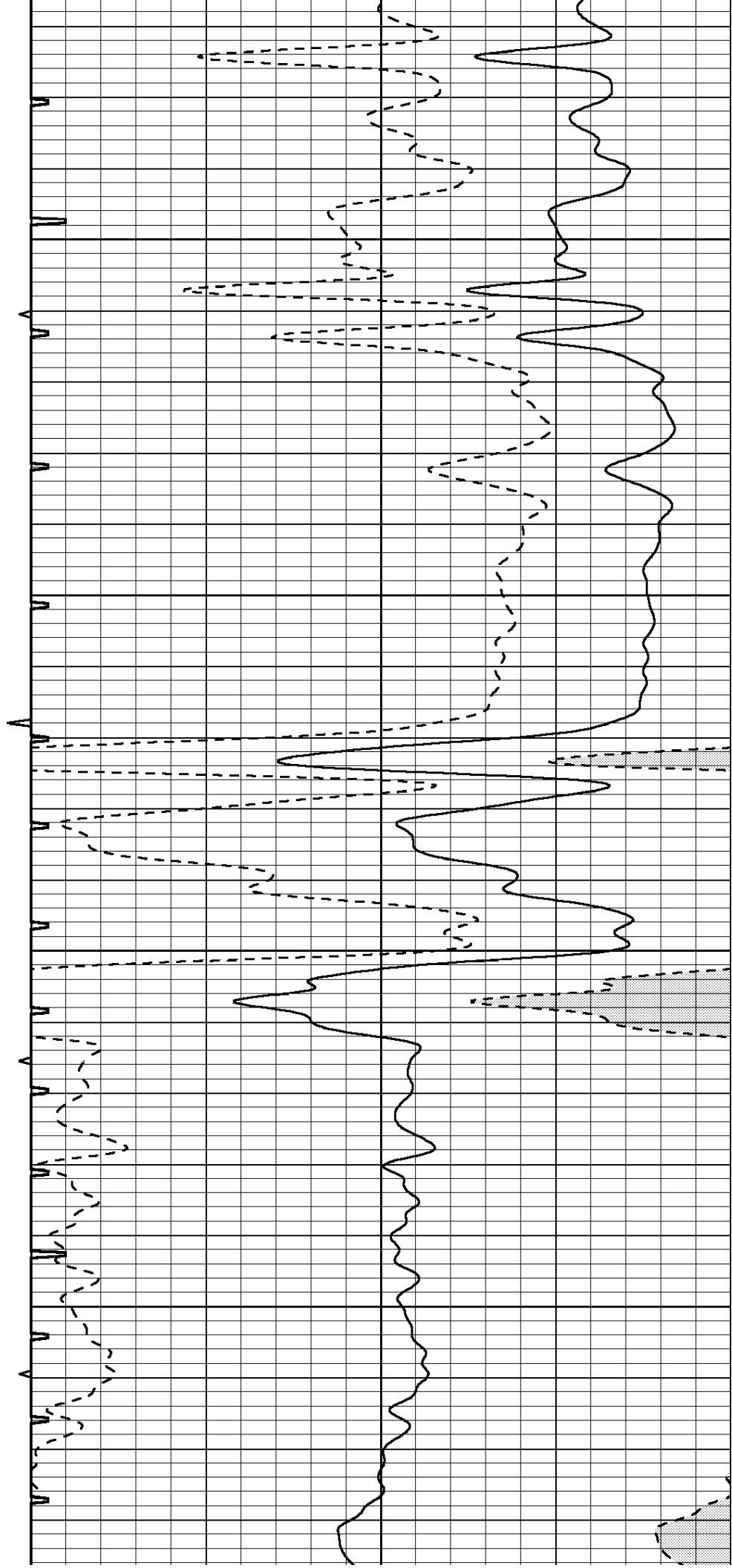


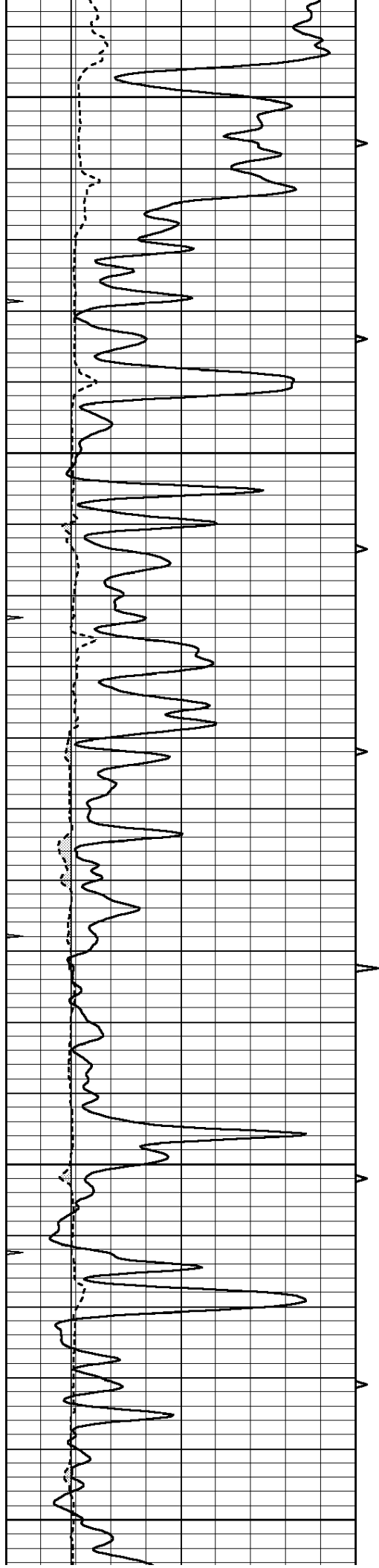
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2900

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3000





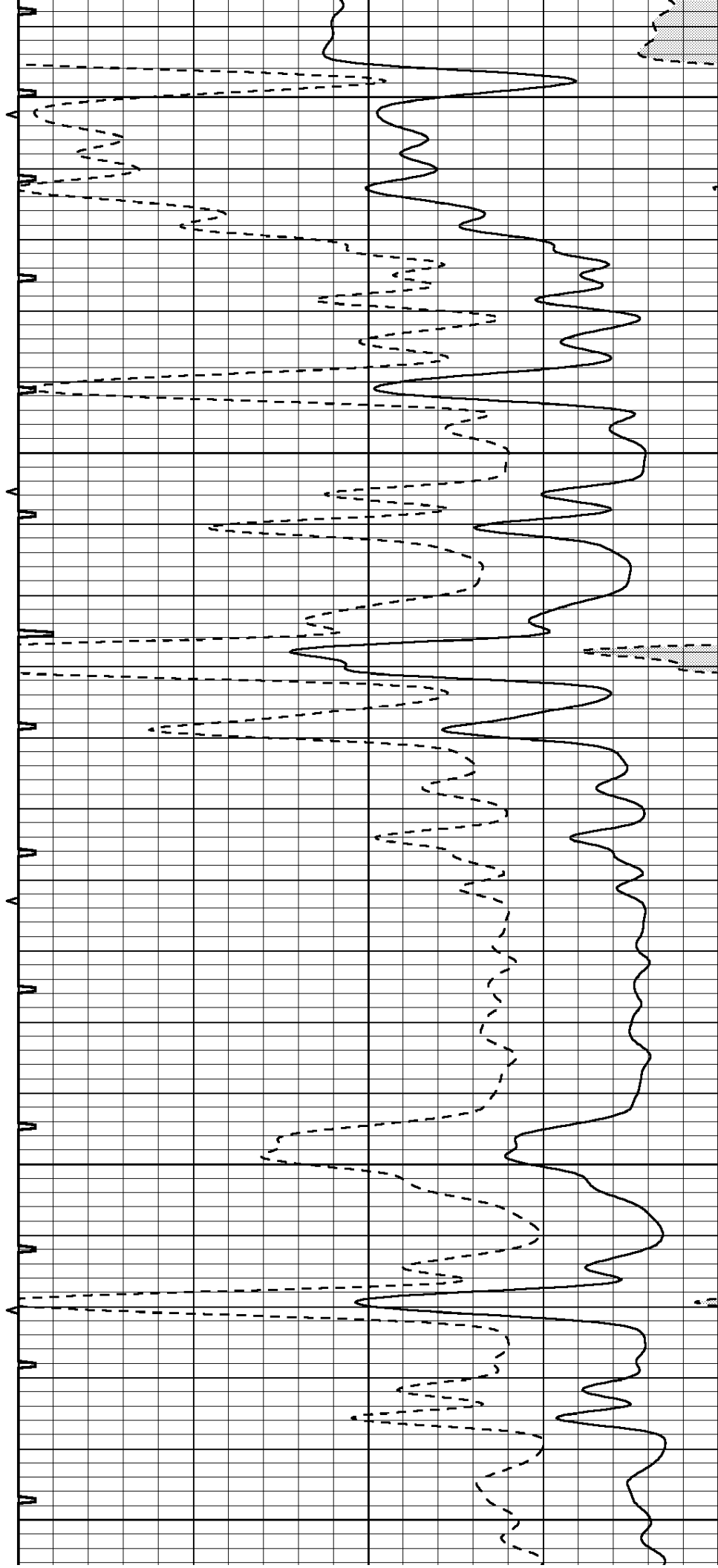
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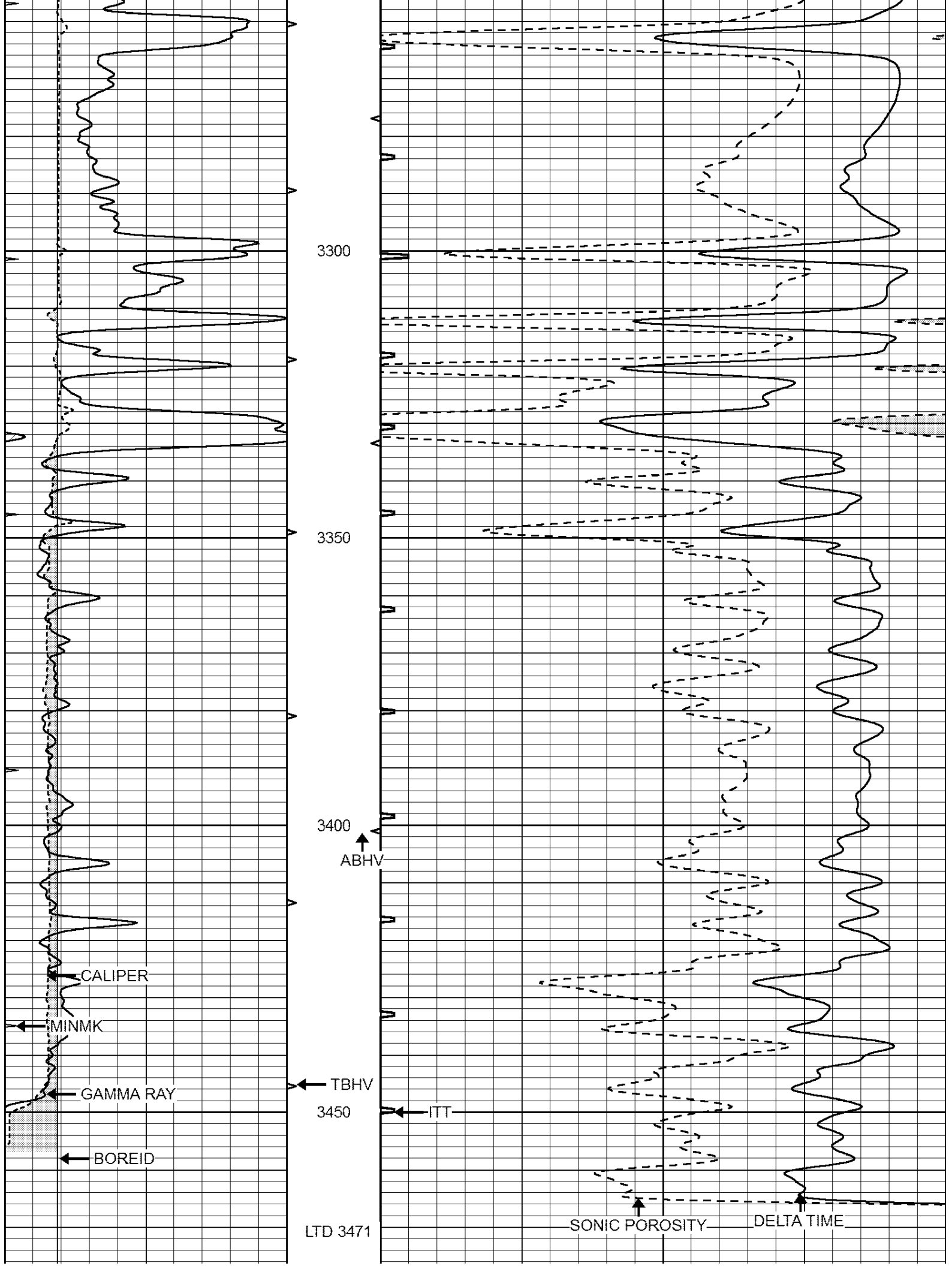
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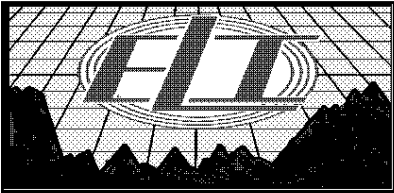
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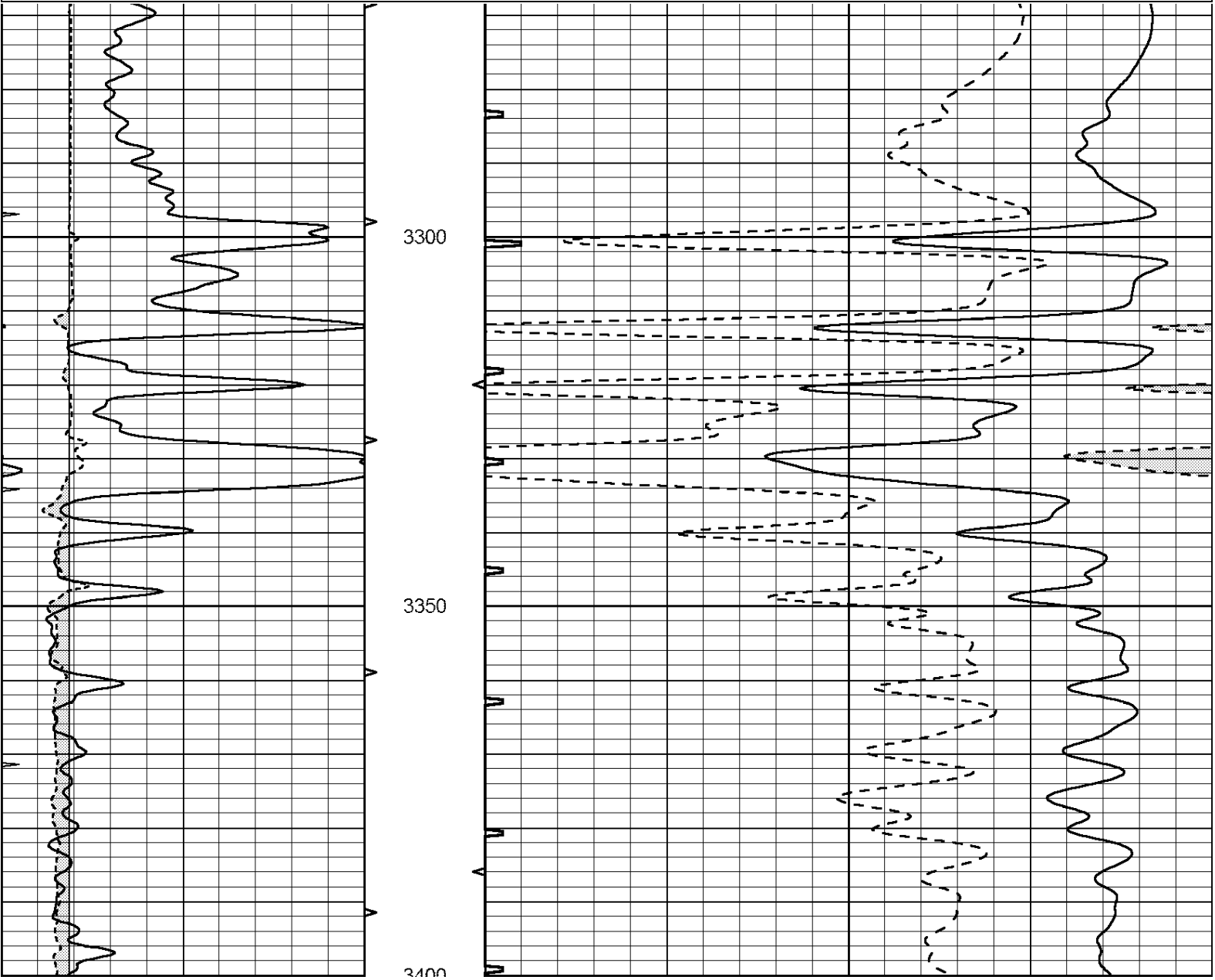
0	GAMMA RAY (GAPI)	150	ABHV	140	DELTA TIME (usec/ft)	40
6	CALIPER (in)	16	10 (ft3) 0	30	SONIC POROSITY (pu)	-10
0	MINMK	20	TBHV	0	ITT (msec)	20
			0 (ft3) 10			

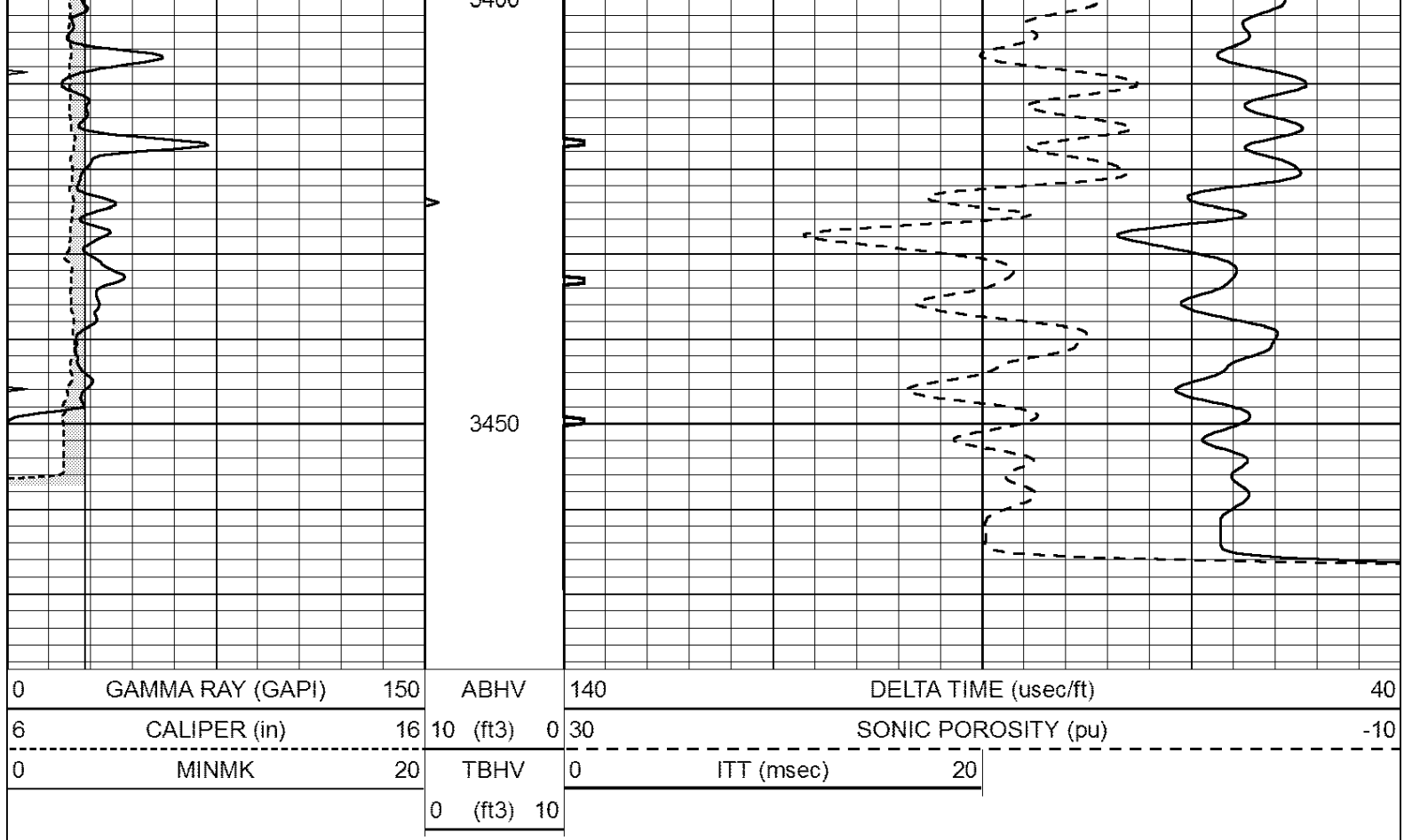


REPEAT SECTION

Database File: 2103ddn.db
Dataset Pathname: pass4.1
Presentation Format: _slt
Dataset Creation: Thu Oct 19 08:29:29 2017 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: 2103ddn.db
 Dataset Pathname: pass4
 Dataset Creation: Thu Oct 19 07:33:21 2017 by Log Open-Cased 090629

MICRO Calibration Report

Serial Number: MICRO6
 Tool Model: PROBE
 Performed: Wed Aug 16 17:13:39 2017

Caliper Calibration: Gain=3.960 Offset=4.551
 References Low Cal High Cal
 7.000 14.000
 Readings 0.555 2.323

1.5" Calibration: Gain=38.075 Offset=-0.400
 References Low Cal High Cal
 0.000 20.000
 Readings 0.004 1.196

2" Calibration: Gain=48.000 Offset=-1.000
 References Low Cal High Cal
 0.000 20.000
 Readings 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