



SONIC LOG

Company WOOLSEY OPERATING COMPANY, LLC.
 Well DARGEL #1
 Field URSULA SE
 County KIOWA
 State KANSAS

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Location: API # : 15-097-21831-00-00
 2010' FNL & 330' FEL
 SEC 15 TWP 29S RGE 18W
 Permanent Datum GROUND LEVEL Elevation 2171'
 Log Measured From KELLY BUSHING 12' A.G.L.
 Drilling Measured From KELLY BUSHING
 Other Services CDL/CNL DIL
 Elevation K.B. 2183'
 D.F. 2182
 G.L. 2171

Date	12/17/17
Run Number	ONE
Depth Driller	5250
Depth Logger	5254
Bottom Logged Interval	5245
Top Log Interval	00
Casing Driller	8 5/8" @ 355
Casing Logger	355
Bit Size	7 7/8"
Type Fluid in Hole	CHEMICAL MUD
Density / Viscosity	9.4/49
pH / Fluid Loss	10.5/10.0
Source of Sample	FLOWLINE
Rm @ Meas. Temp	.50@54
Rmt @ Meas. Temp	.38@54
Rmc @ Meas. Temp	.60@54
Source of Rmf / Rmc	MEASURED
Rm @ BHT	21@127
Time Circulation Stopped	2 HOURS
Time Logger on Bottom	///
Maximum Recorded Temperature	127F
Equipment Number	4010
Location	HAYS, KANSAS
Recorded By	GUS PFANENSTIEL
Witnessed By	BILLY KLAVER

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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

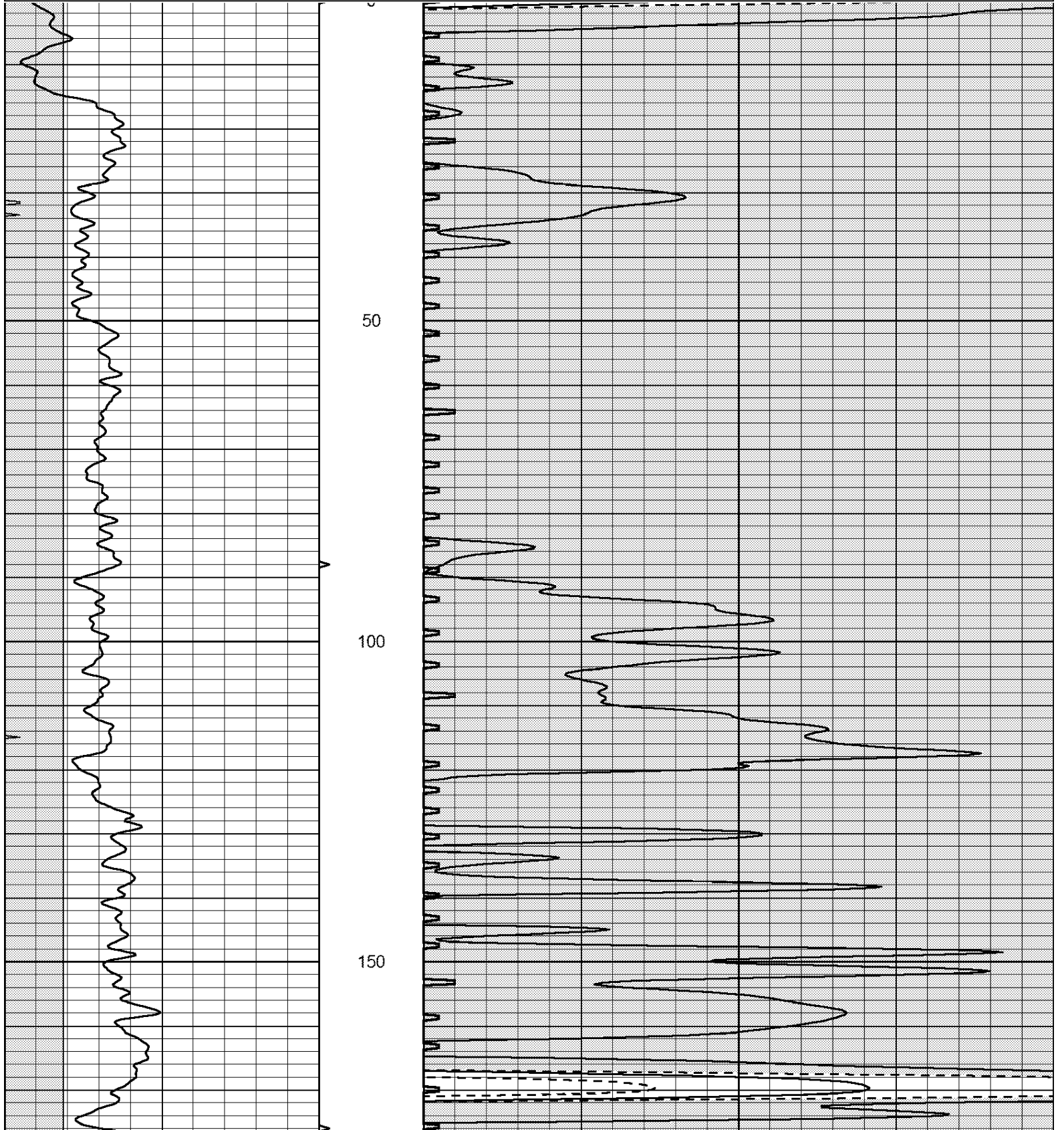
DIRECTIONS
 INTERSECTION OF HIGHWAY 183 AND HIGHWAY 54,
 SOUTH TO N RD, 3 MILES EAST, 1 1/2 SOUTH,
 WEST INTO.

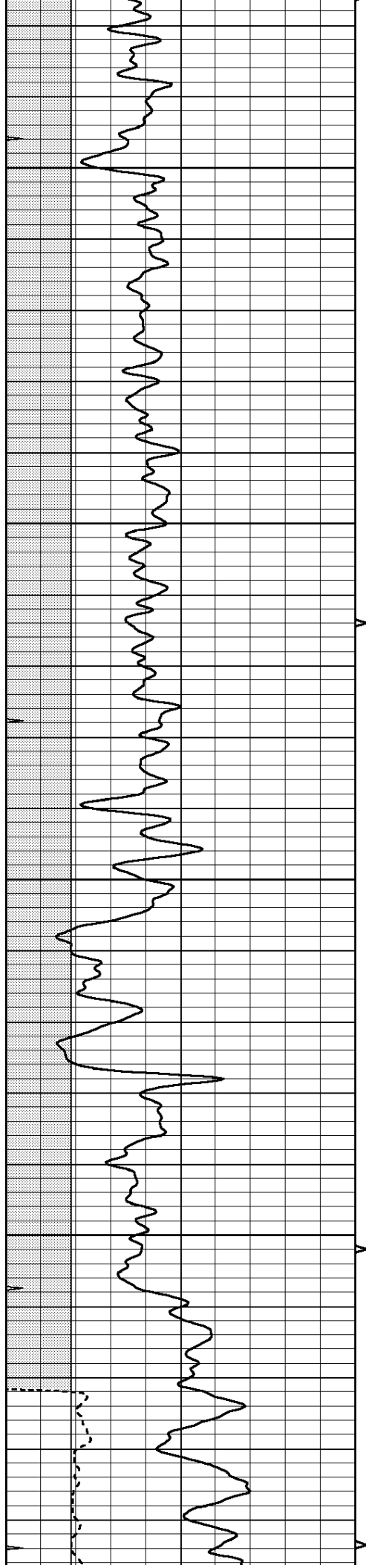


MAIN PASS

Database File: 2120pe.db
 Dataset Pathname: pass5
 Presentation Format: _slt
 Dataset Creation: Mon Dec 18 00:22:39 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)
0	MINMK	20	TBHV	0	ITT (msec)	20
			0 (ft3)	10		



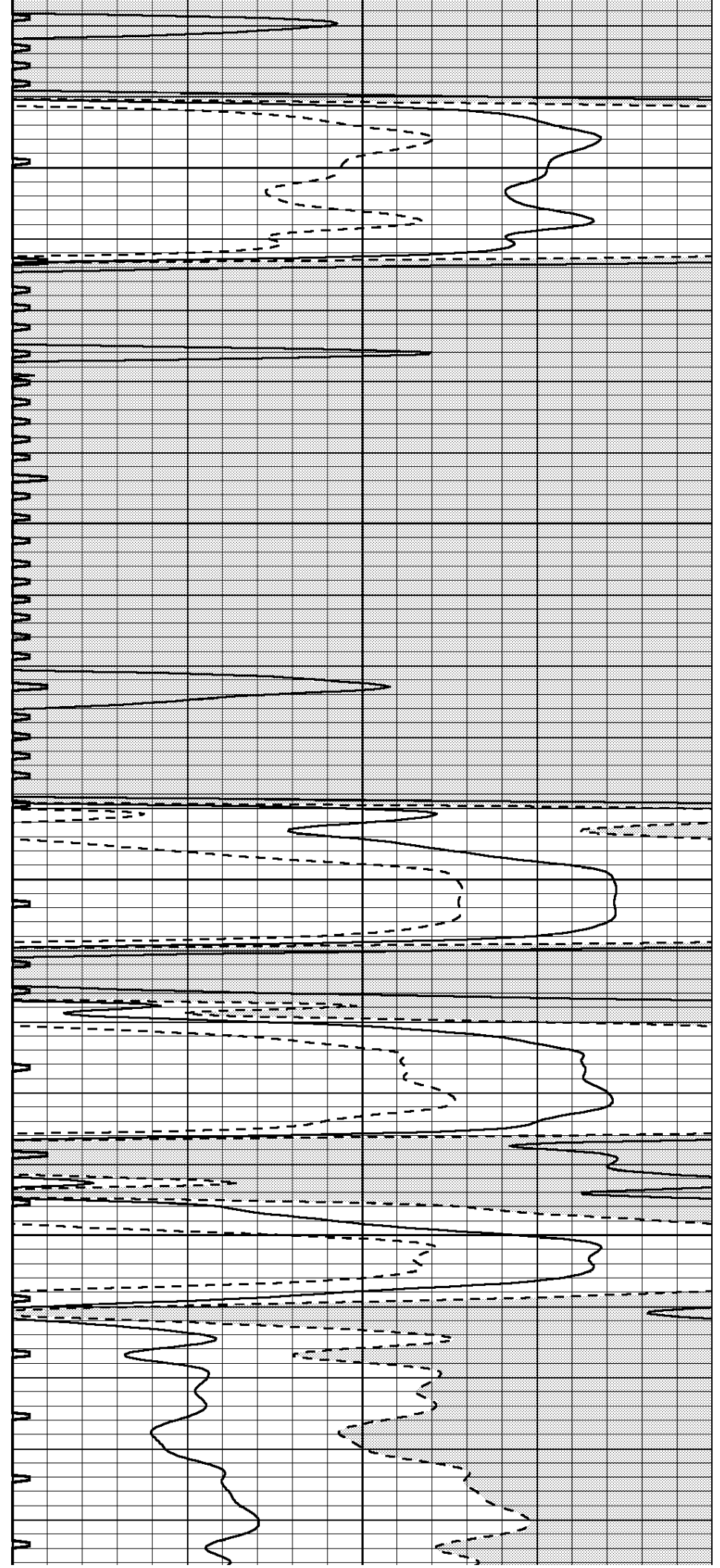


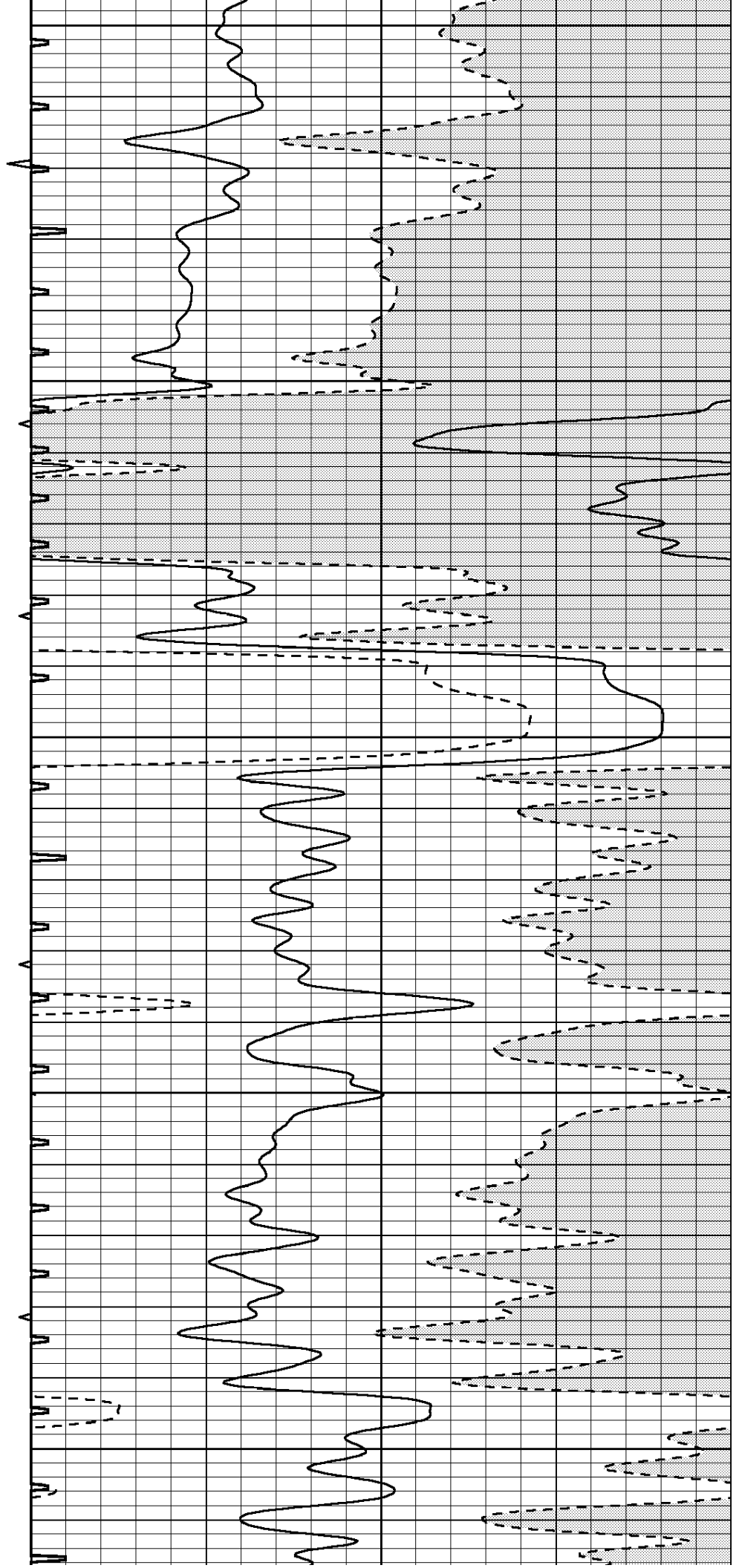
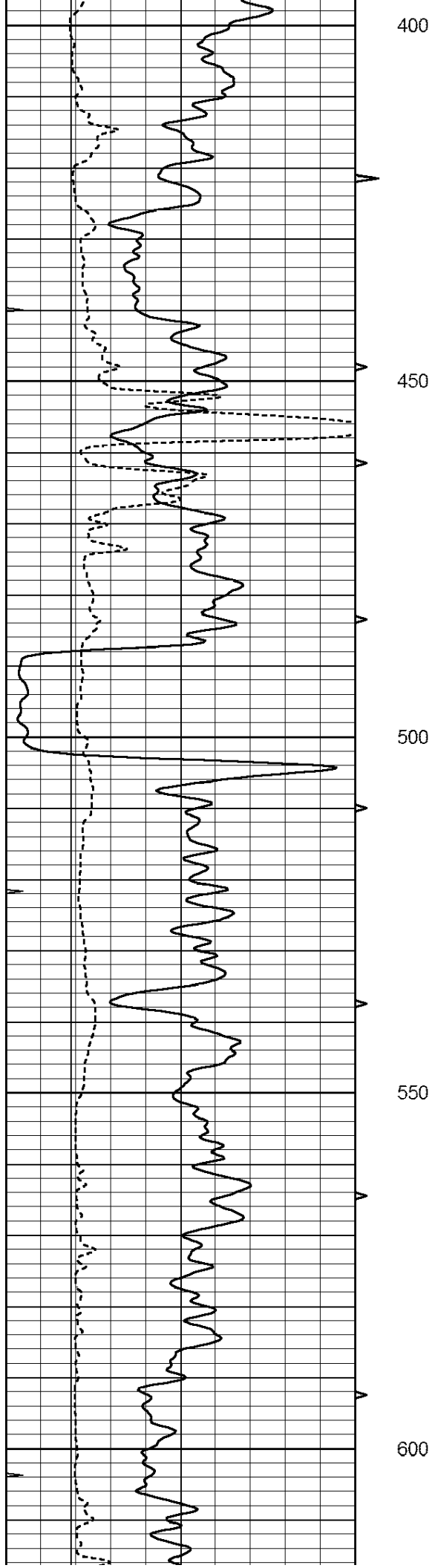
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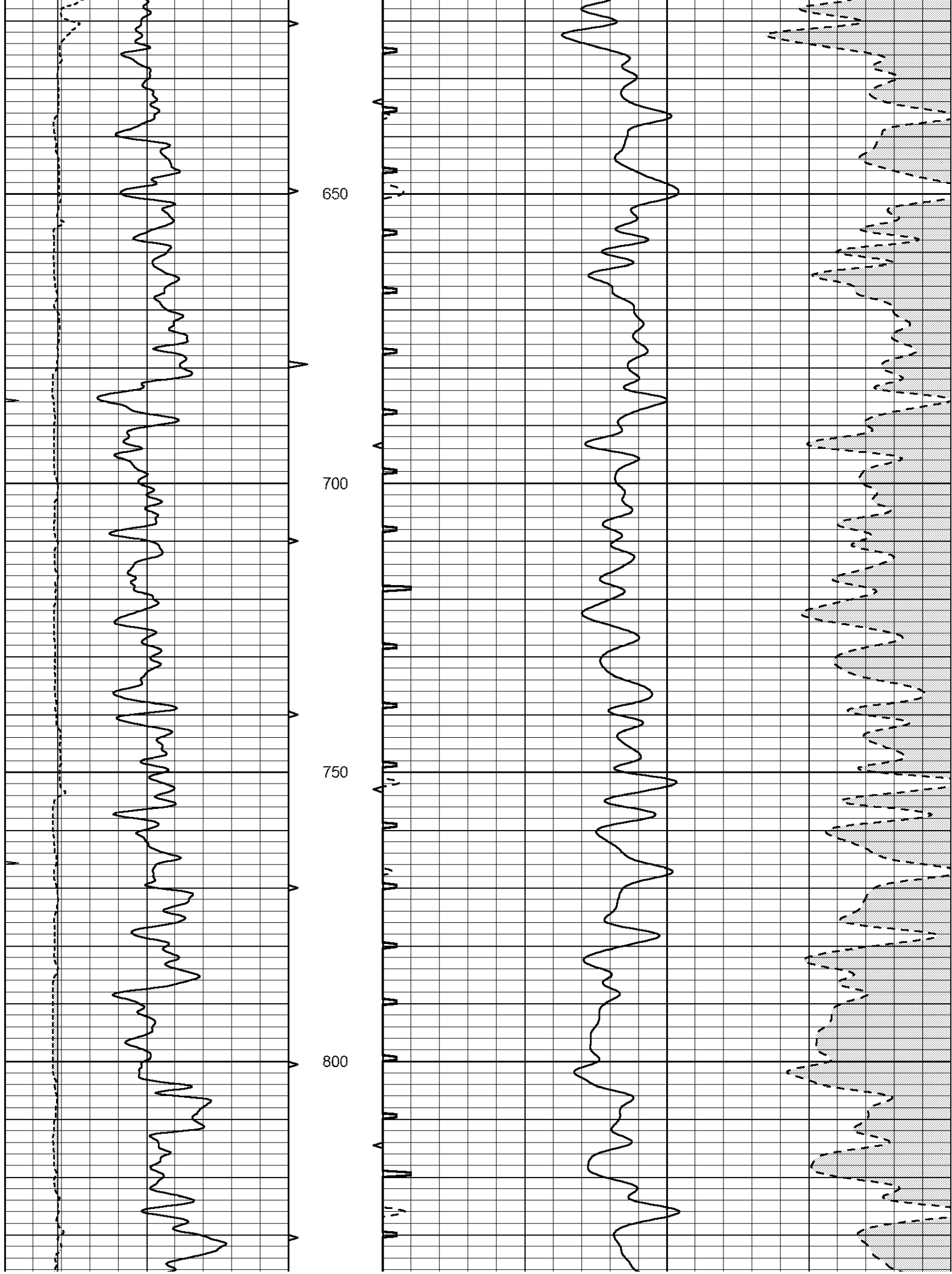
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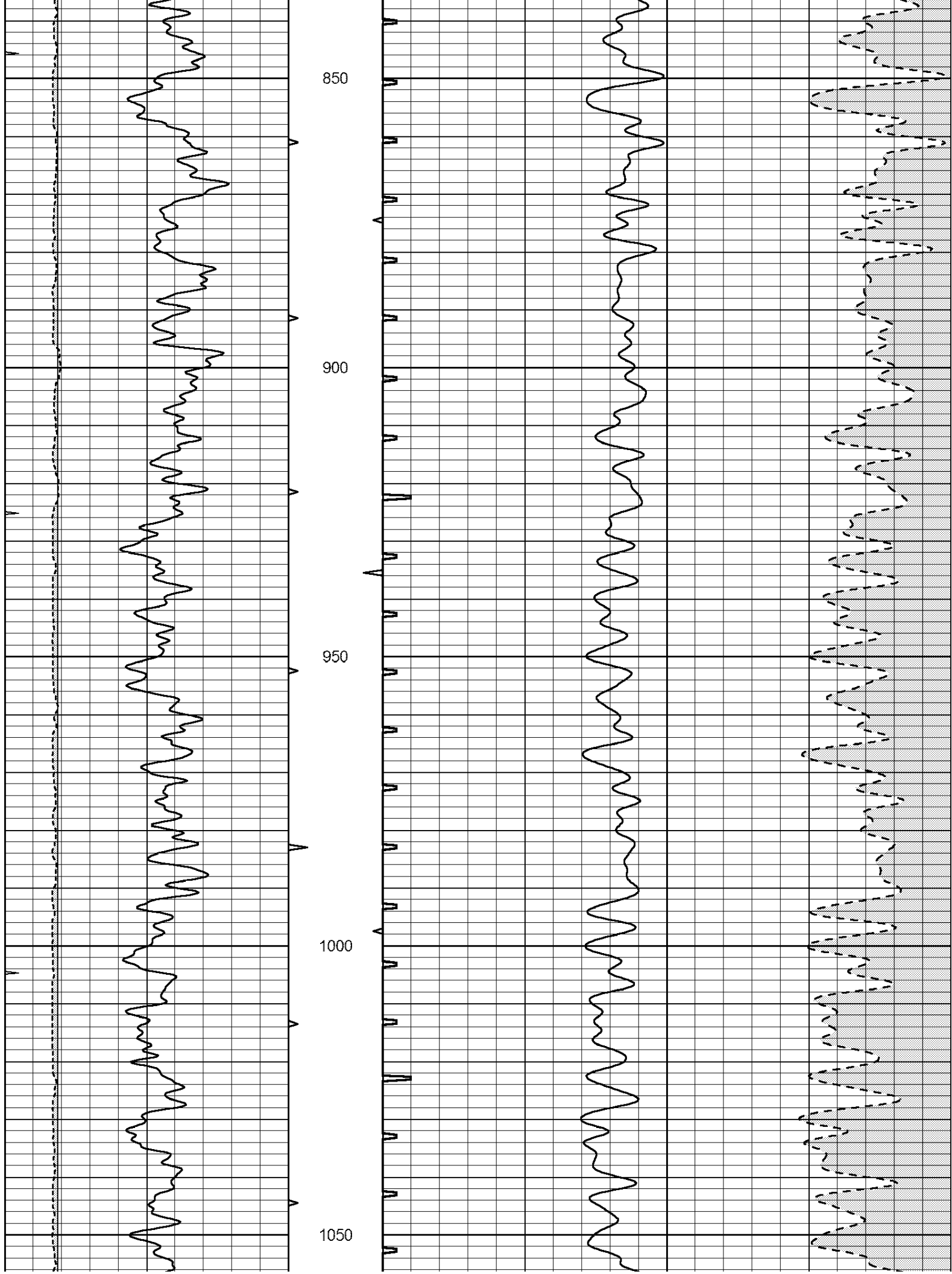
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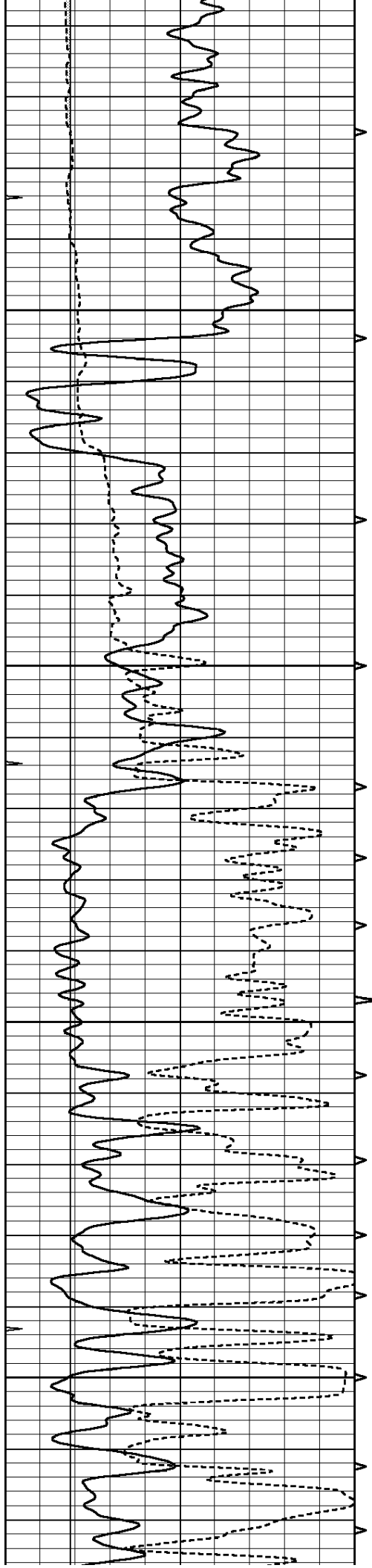
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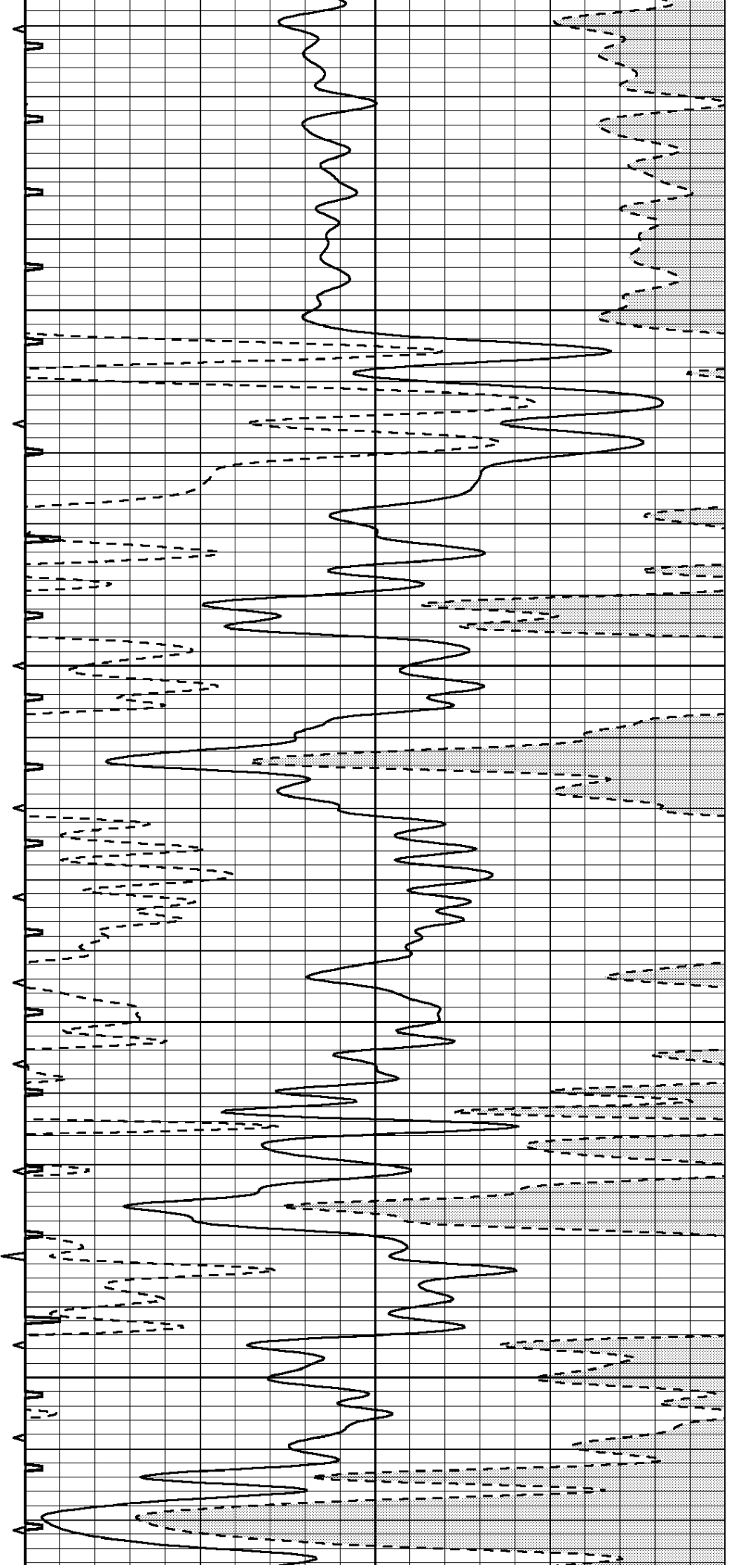


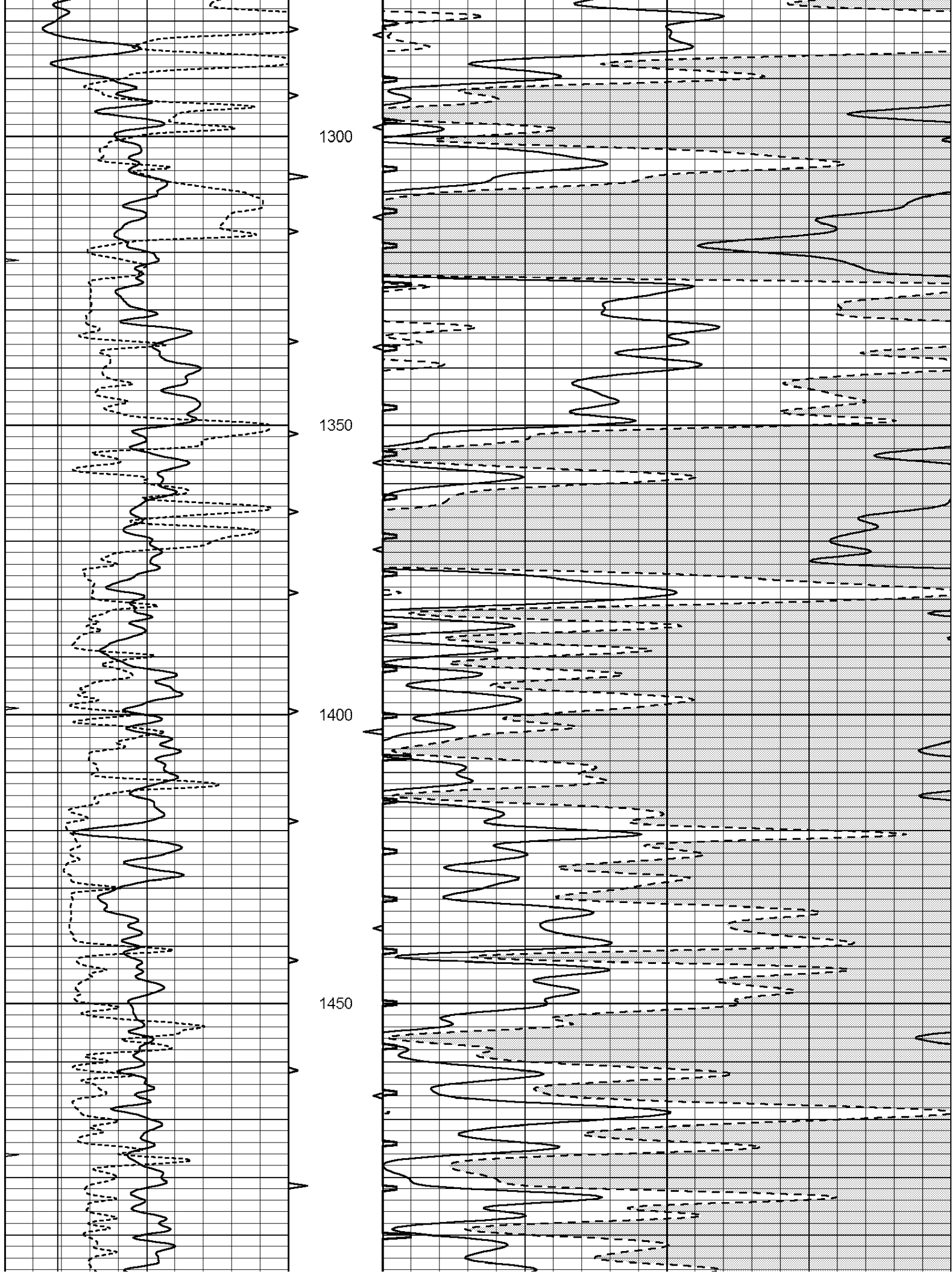
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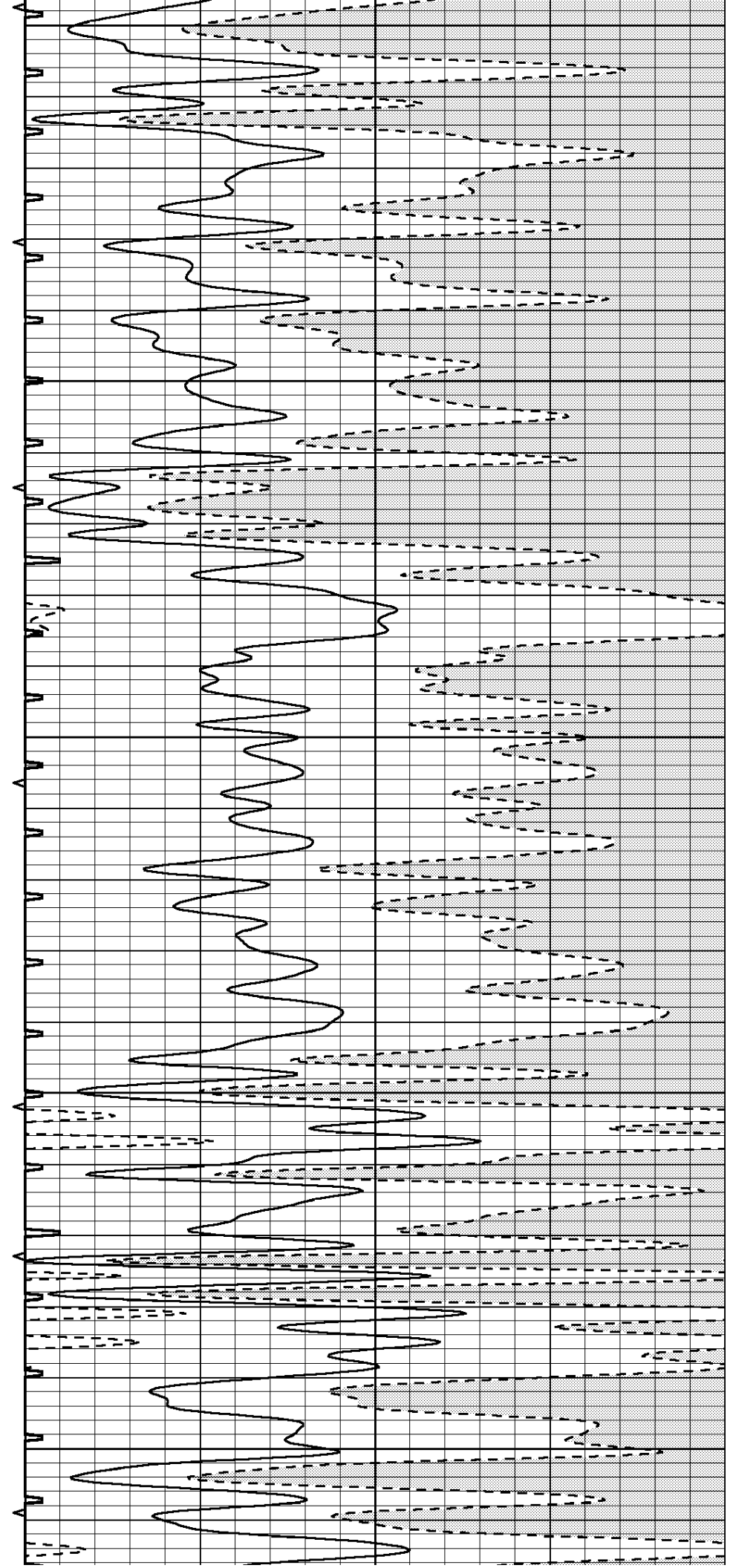
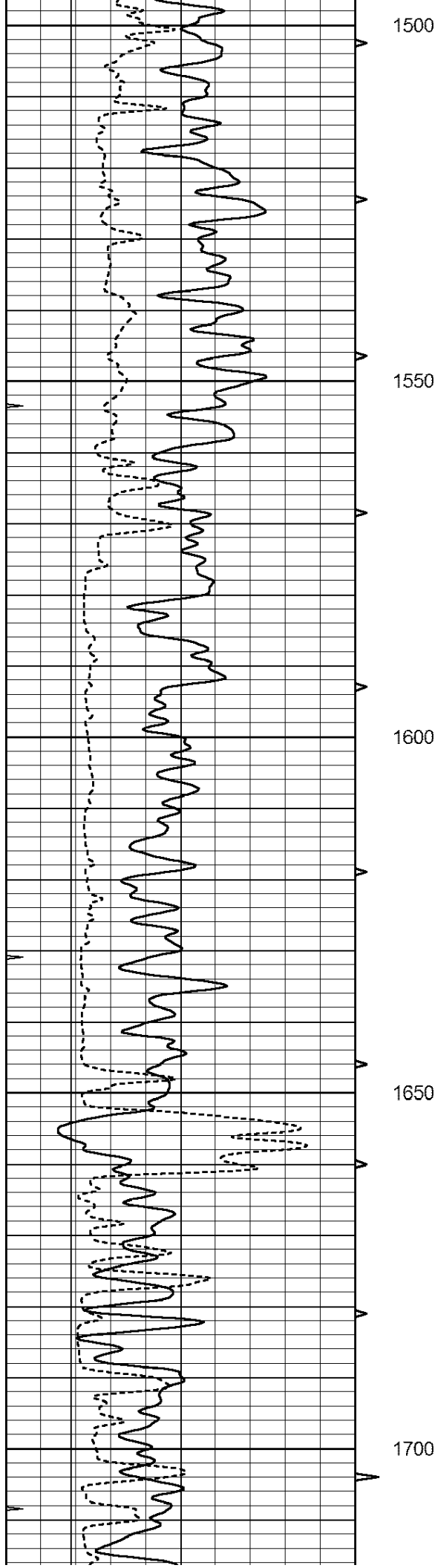
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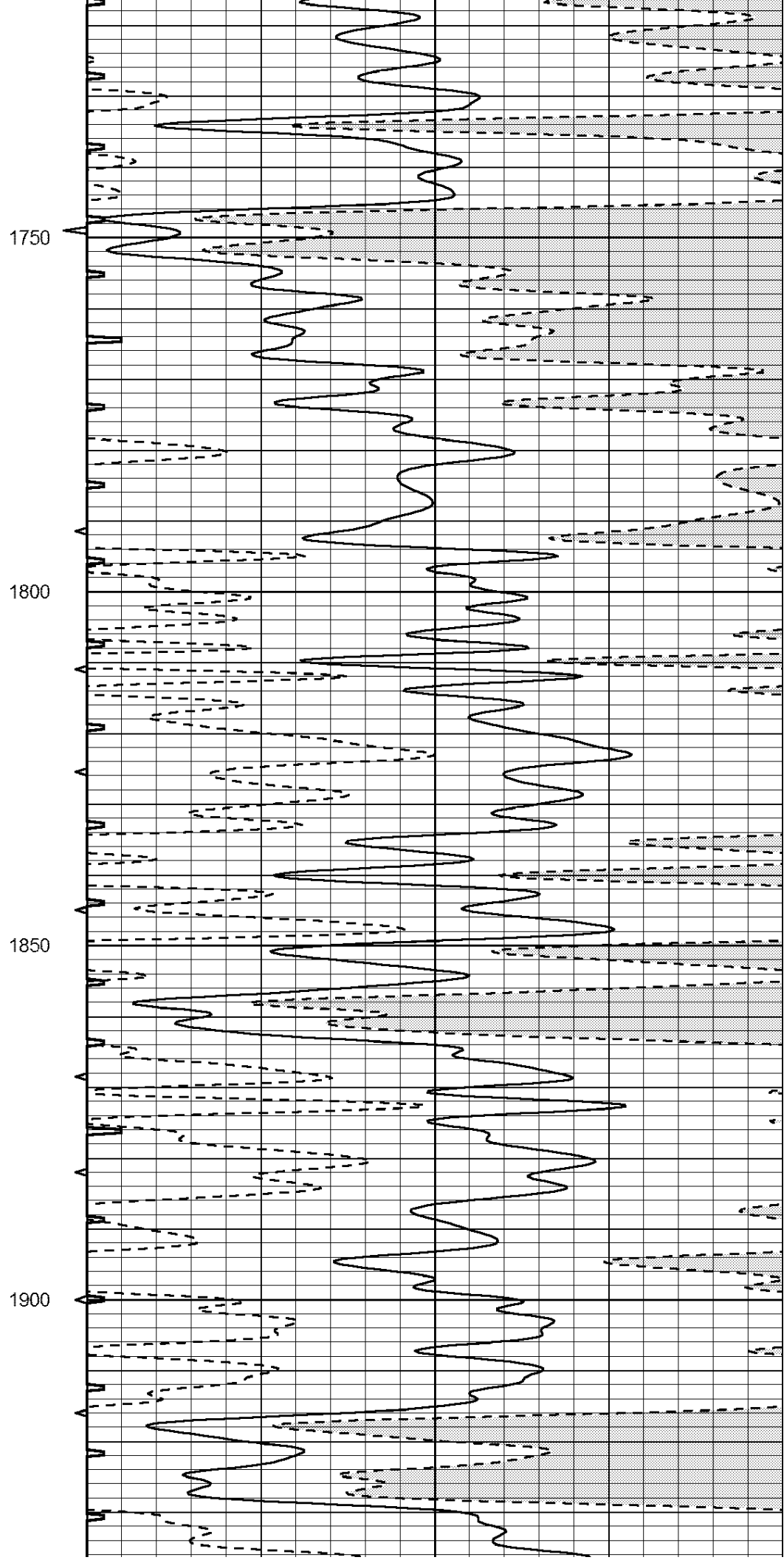
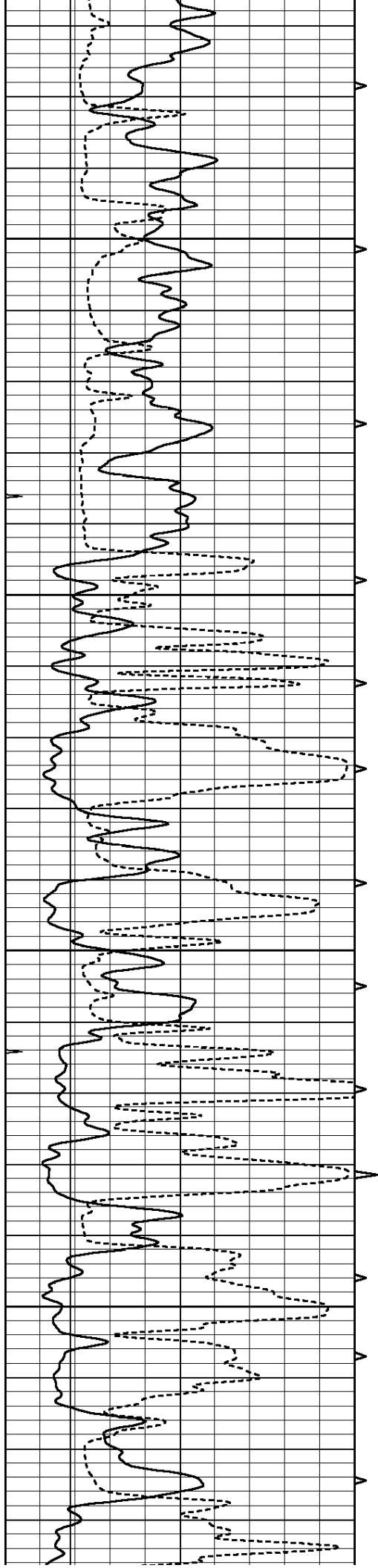
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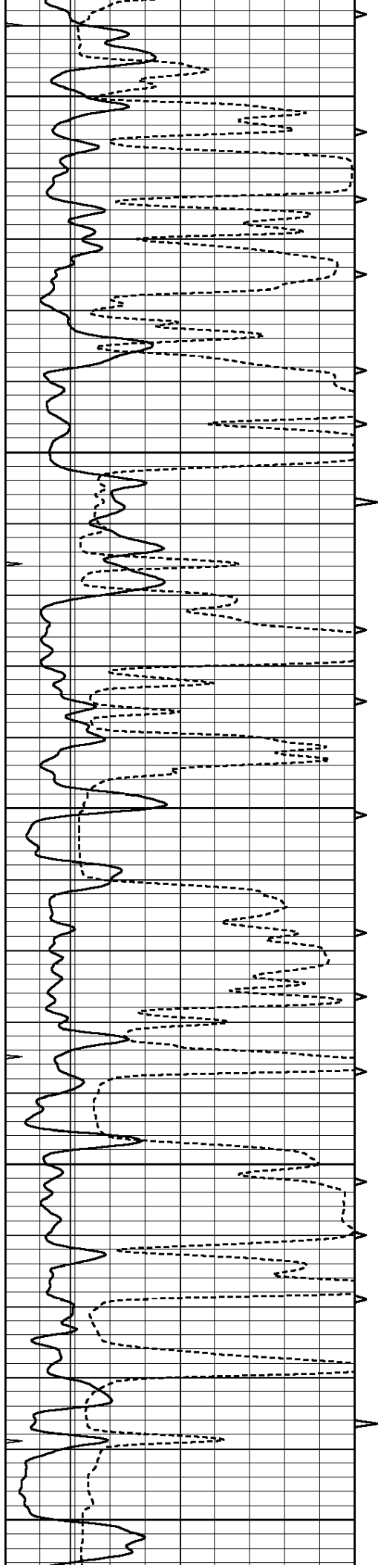
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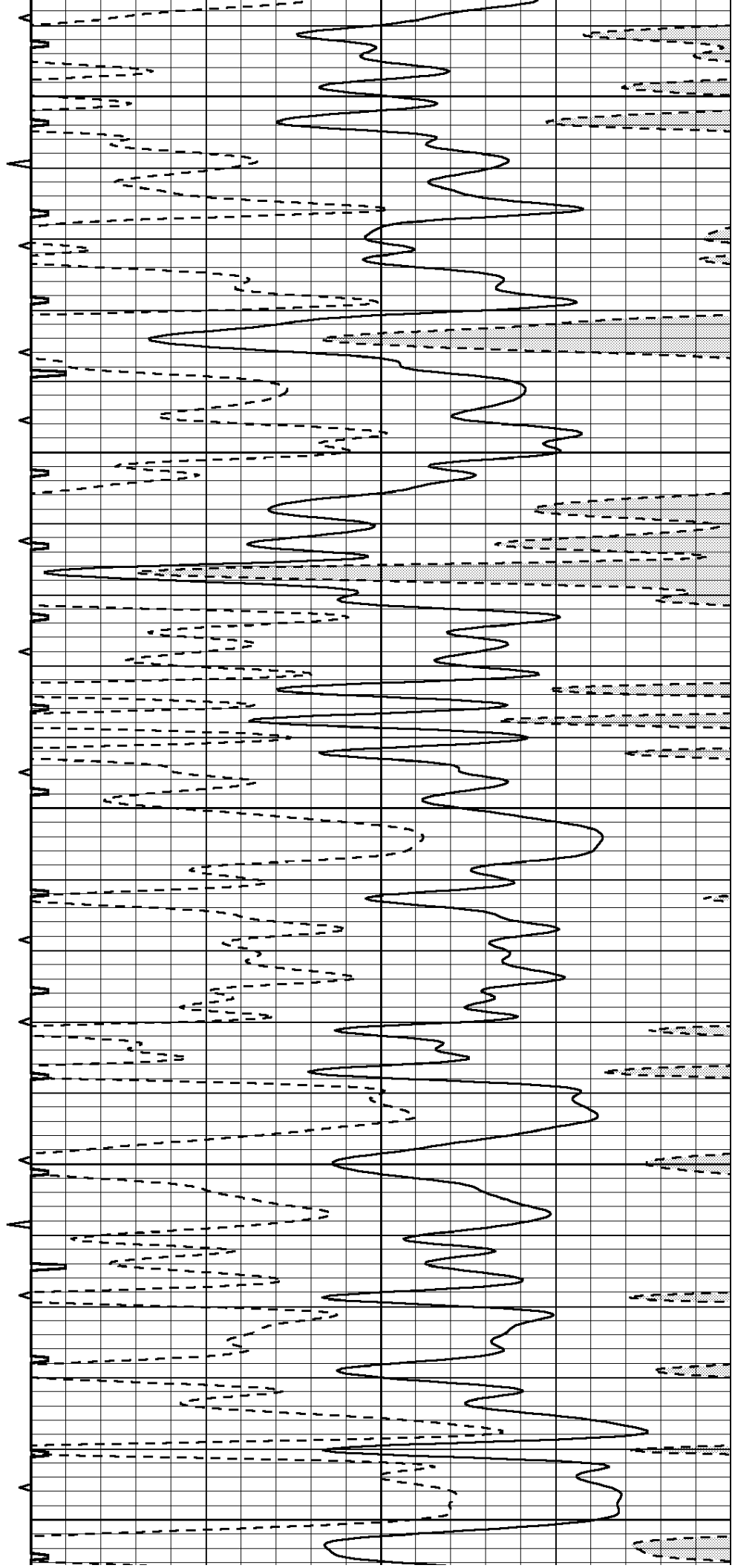
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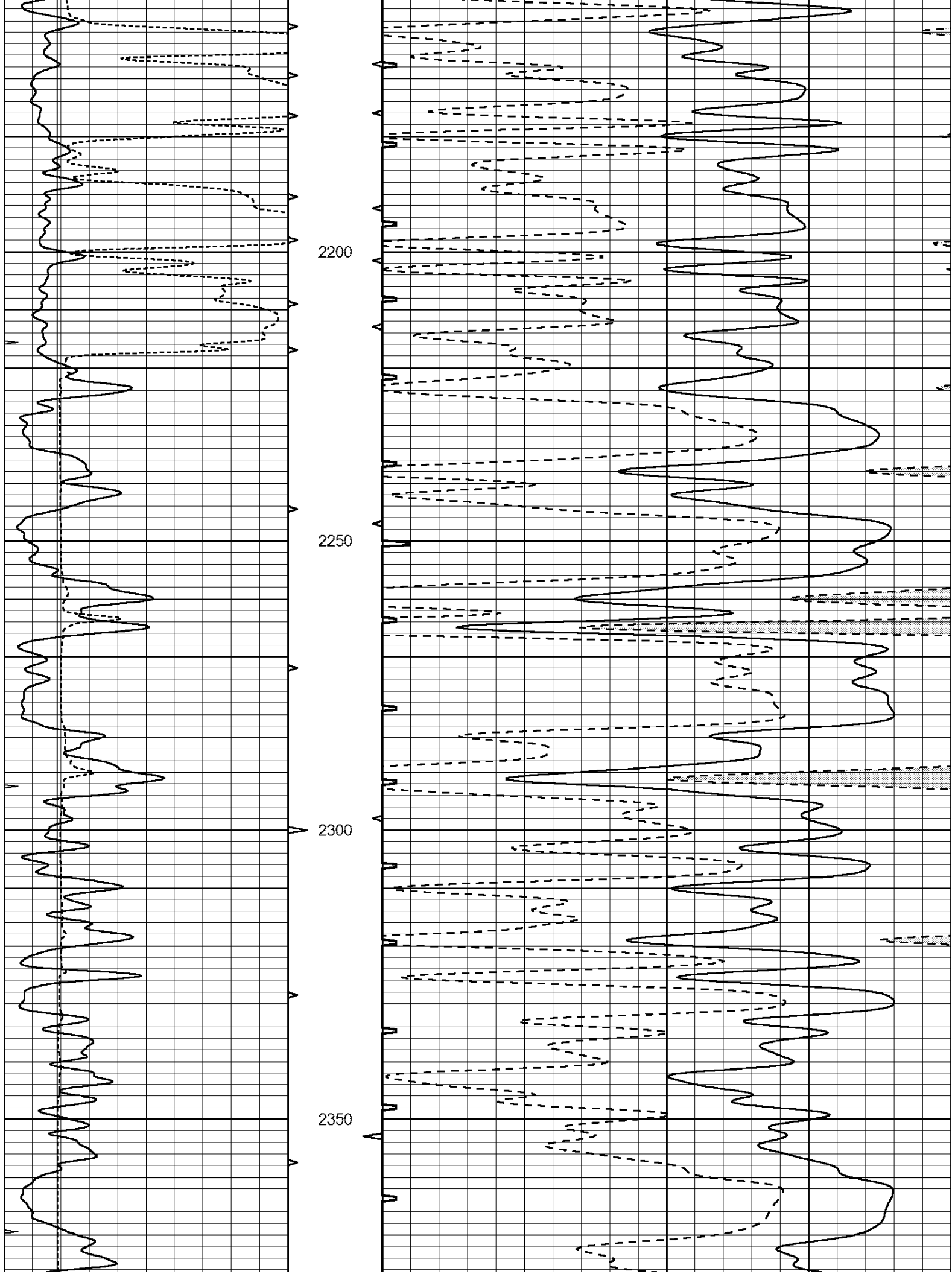
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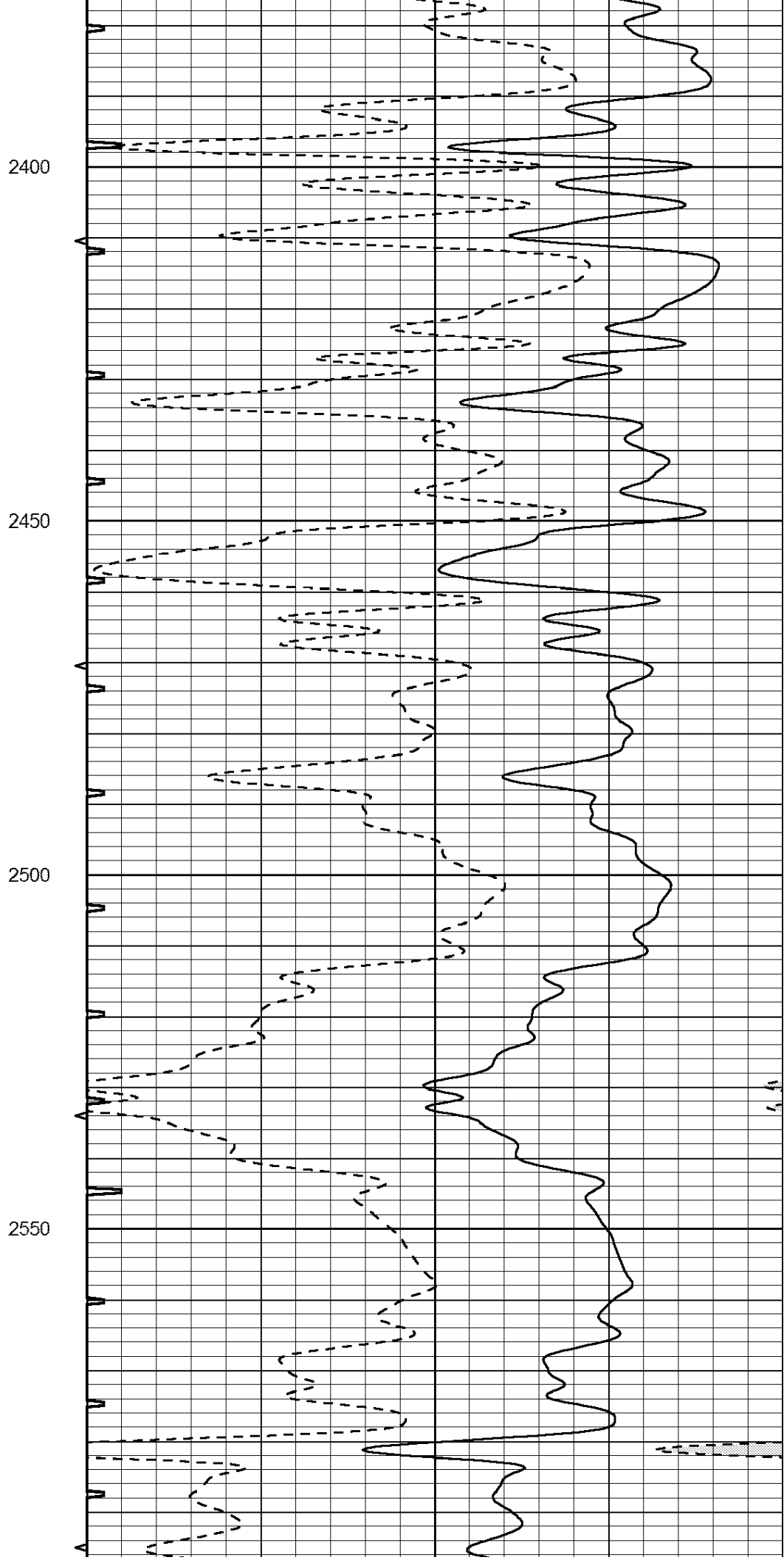
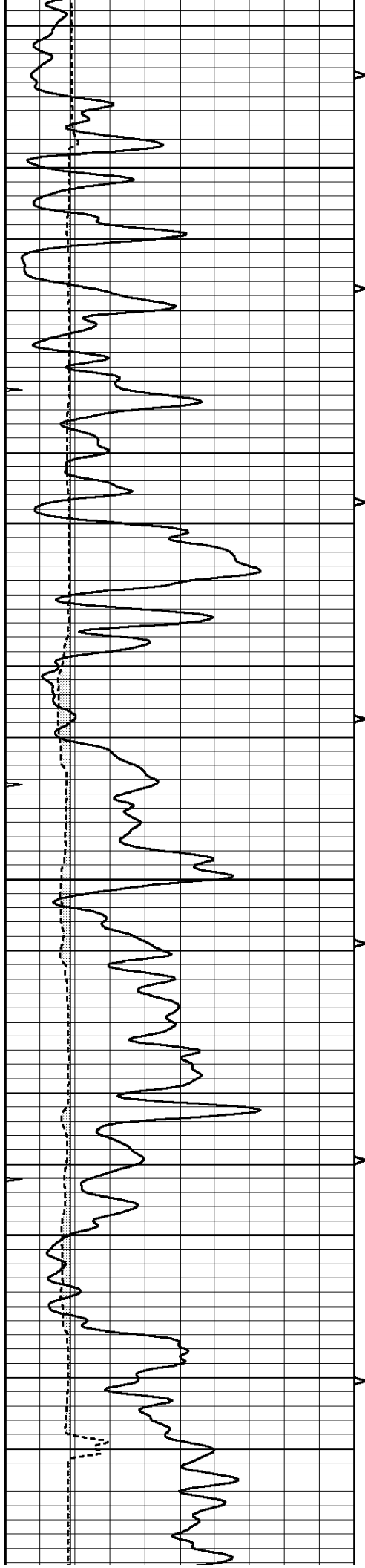
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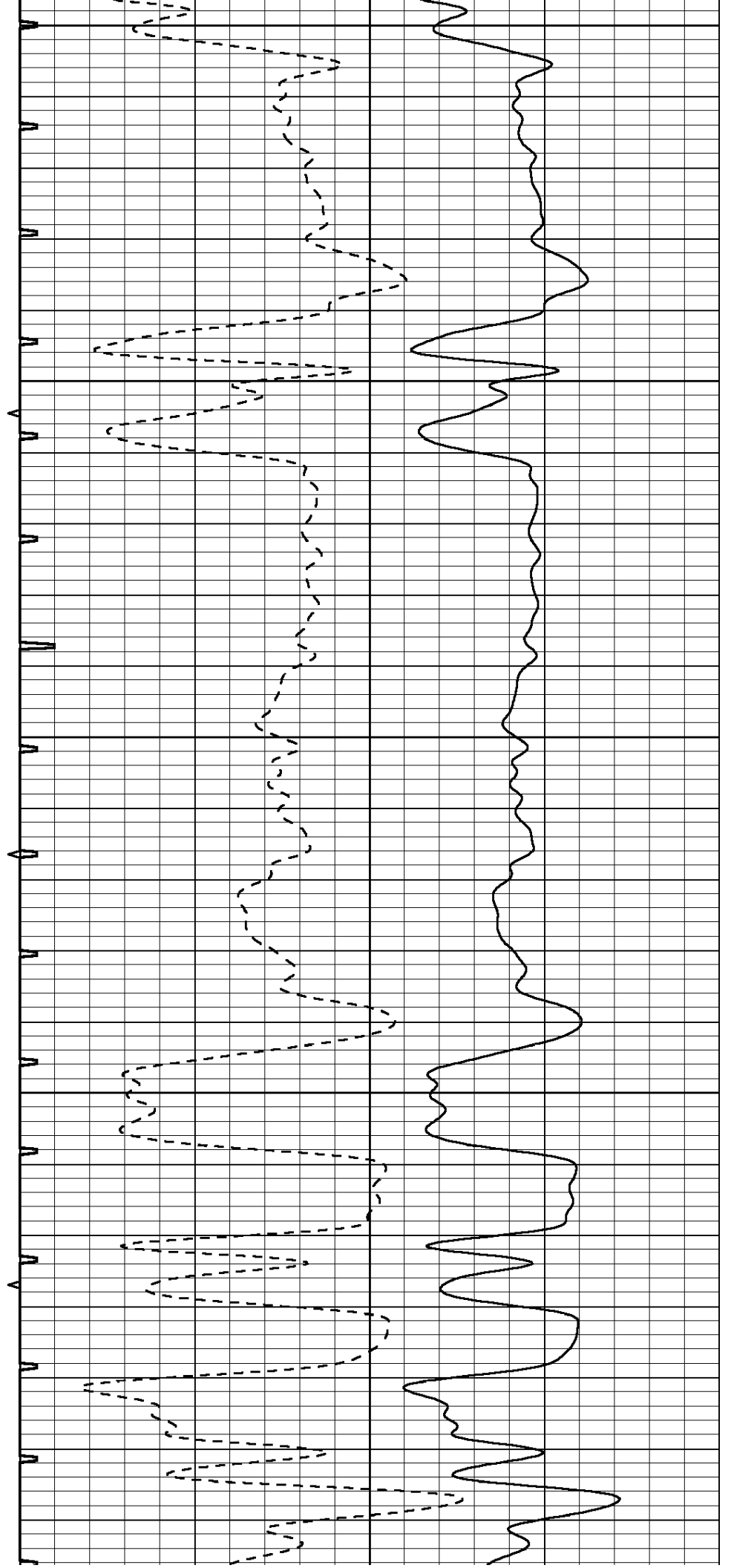
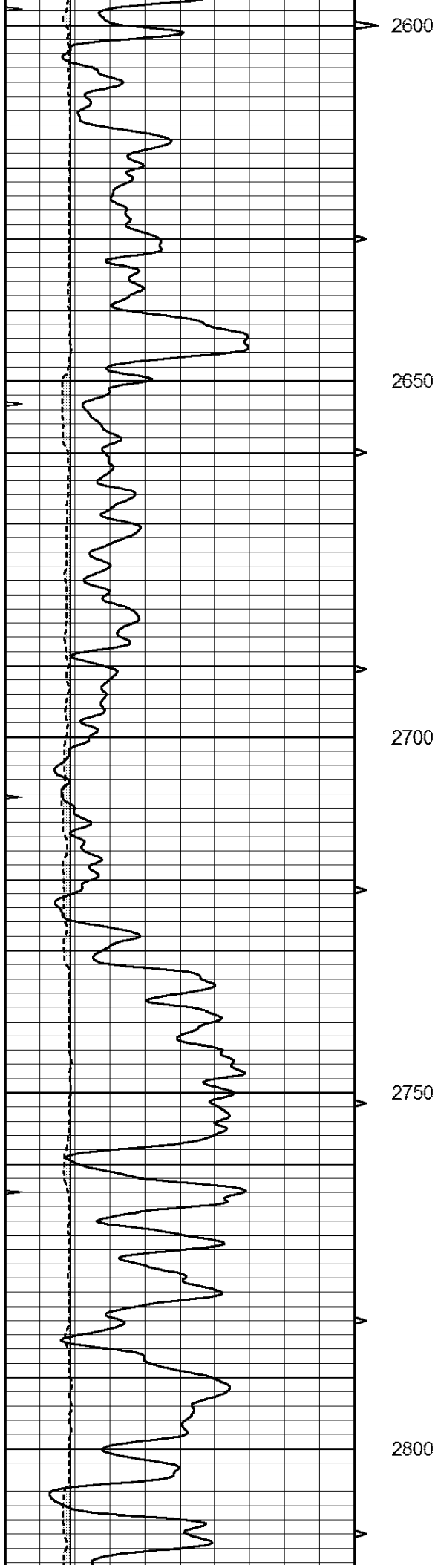
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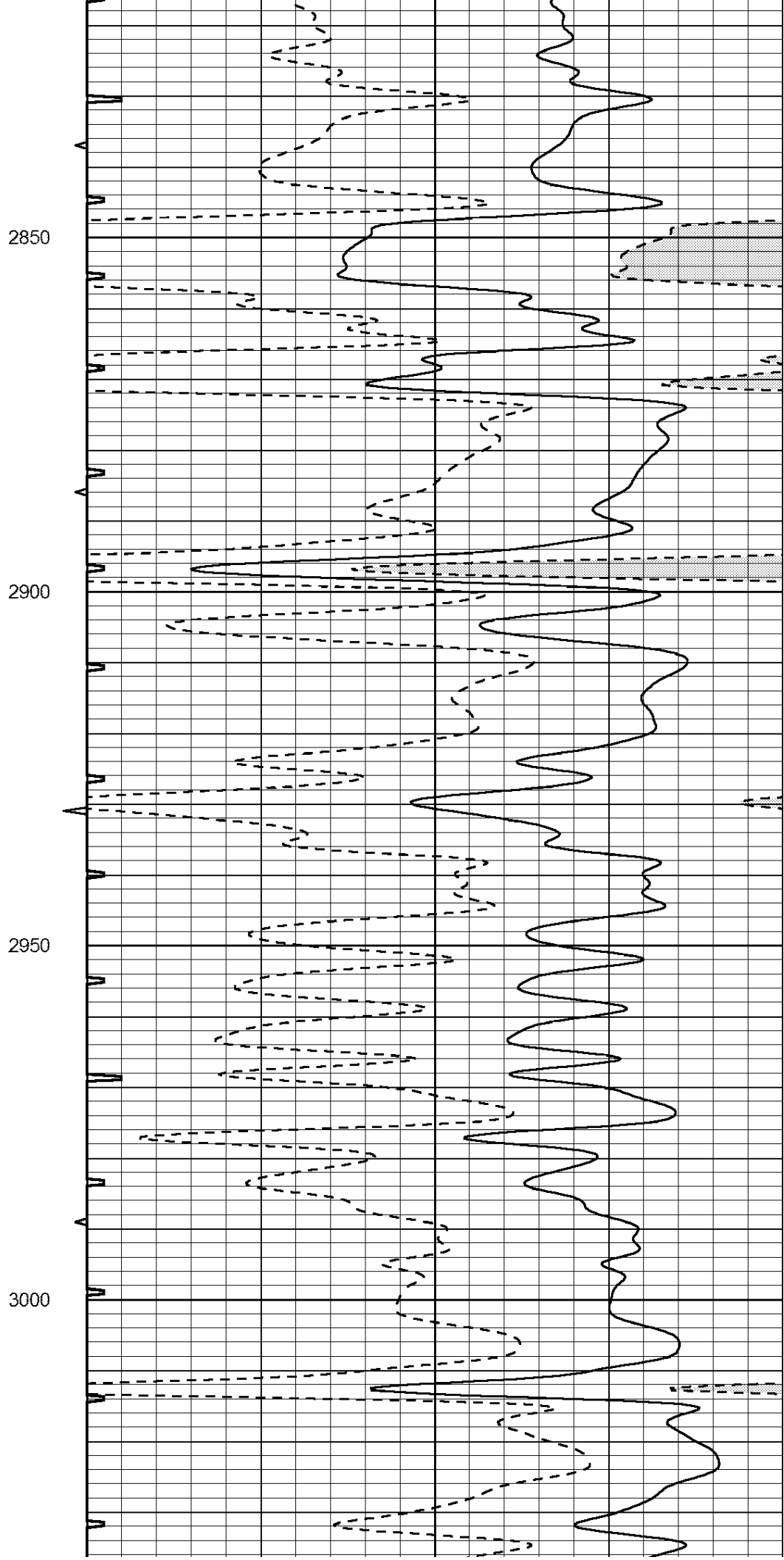
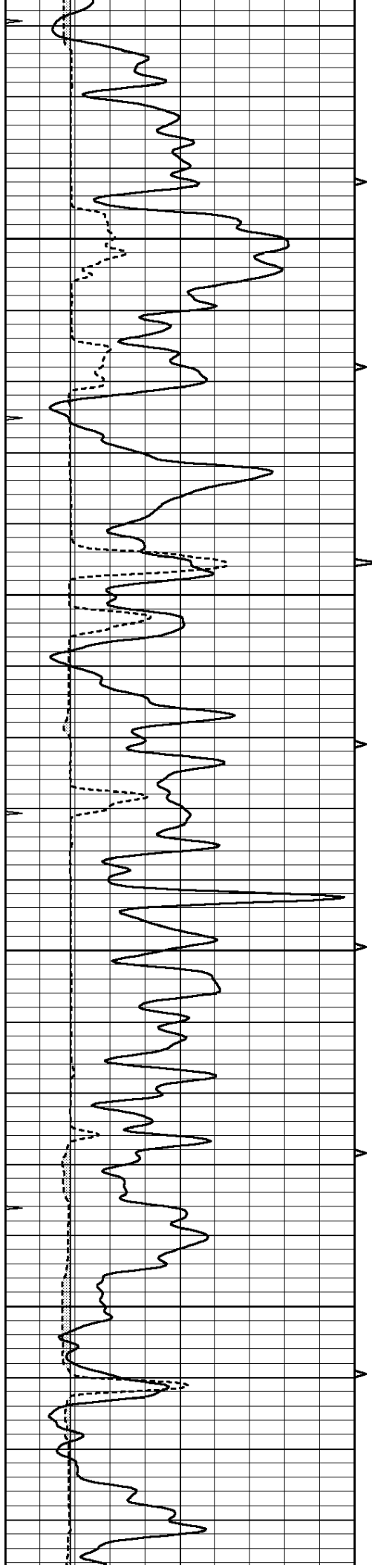
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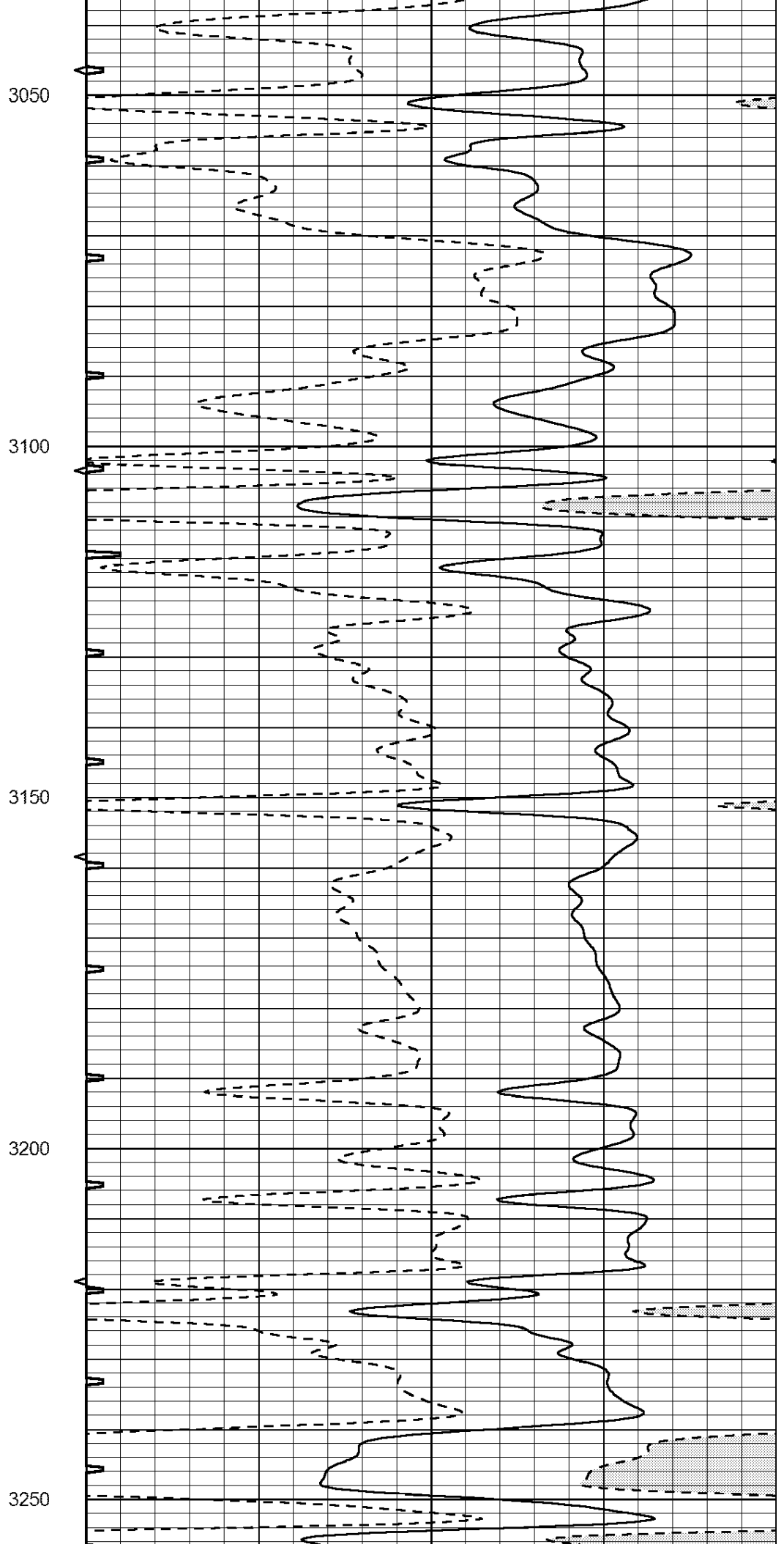
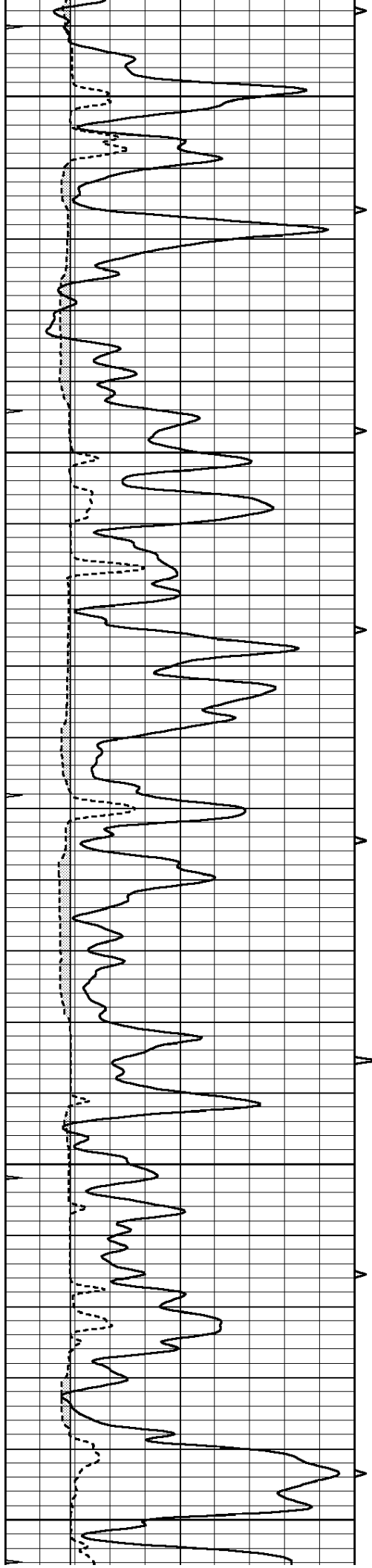


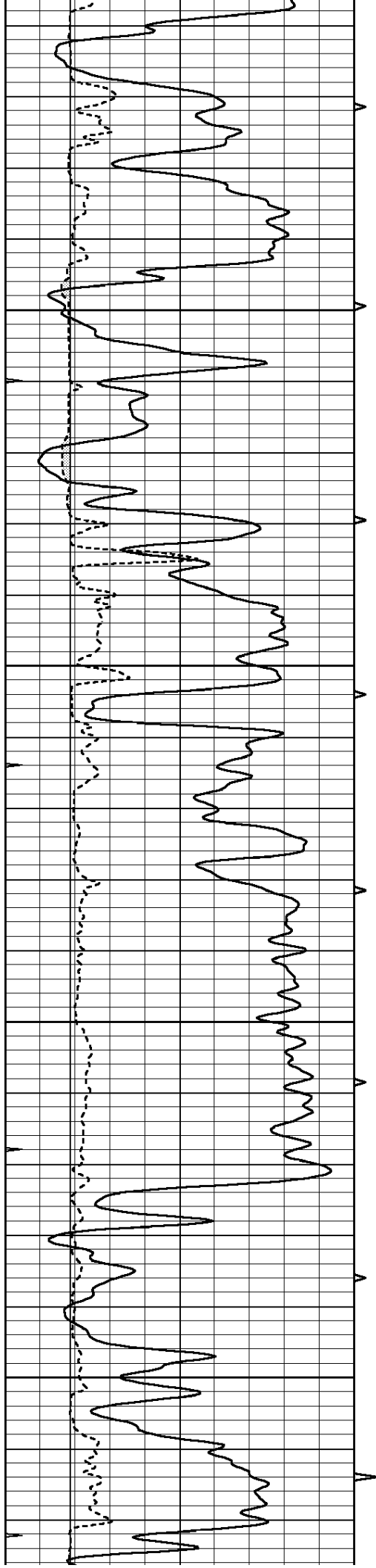










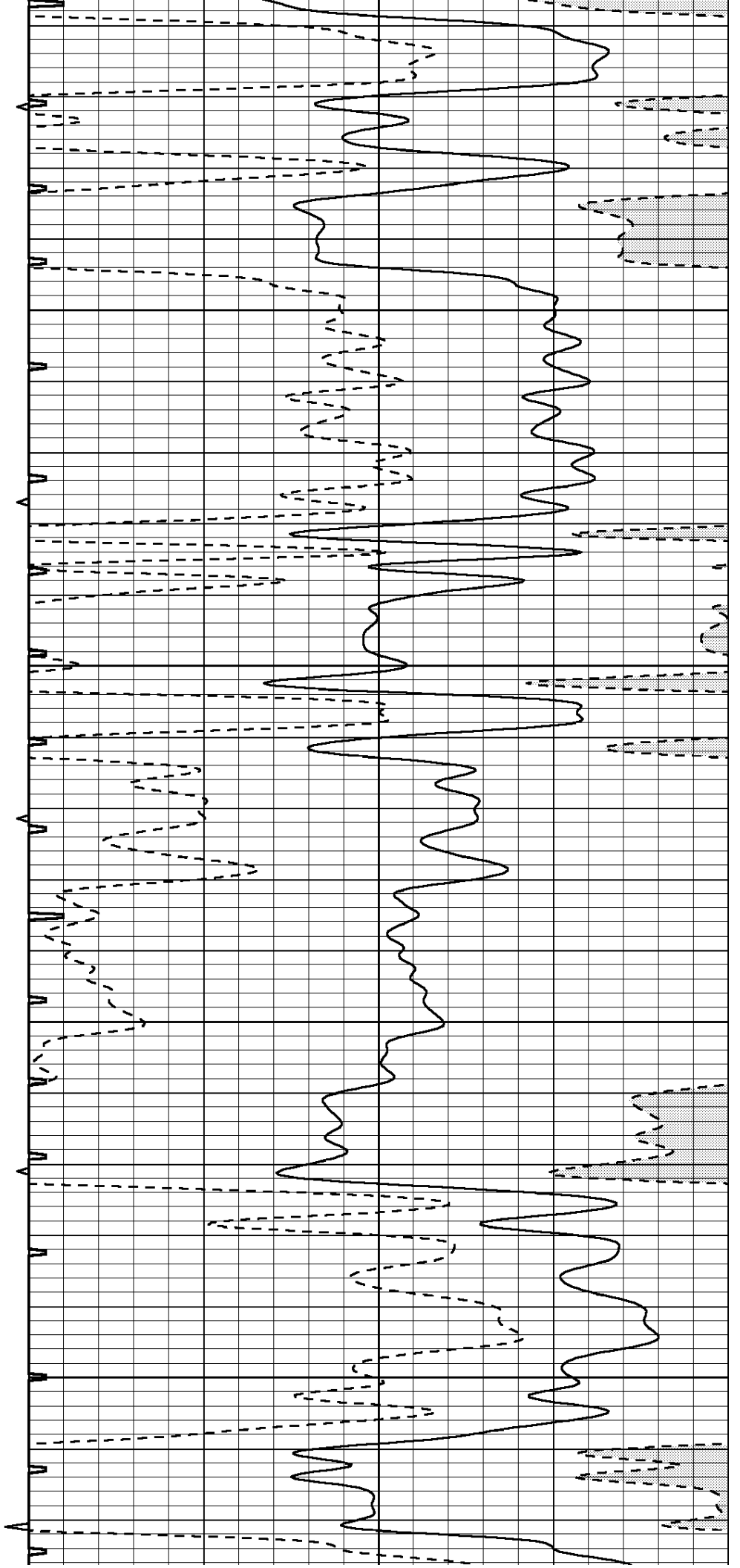


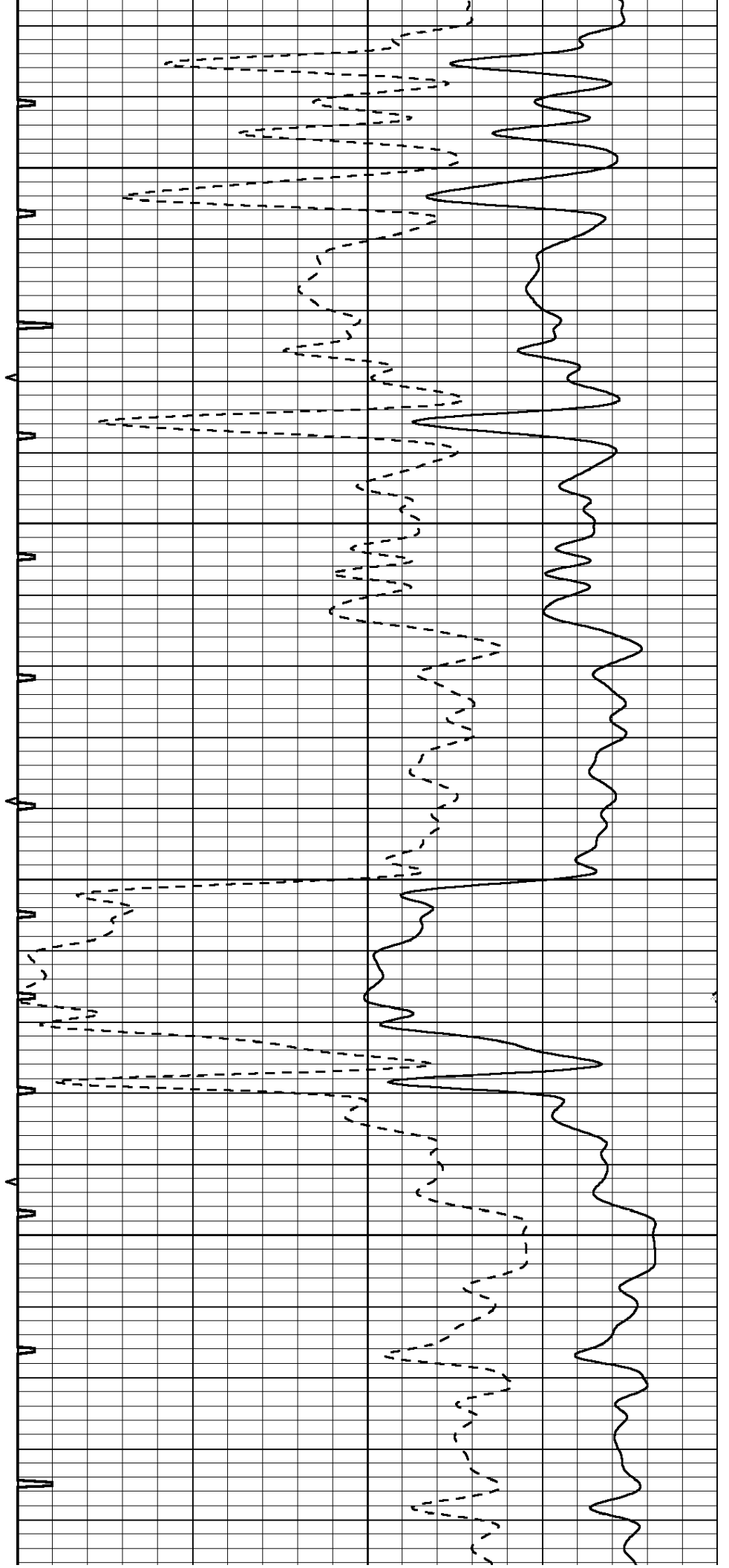
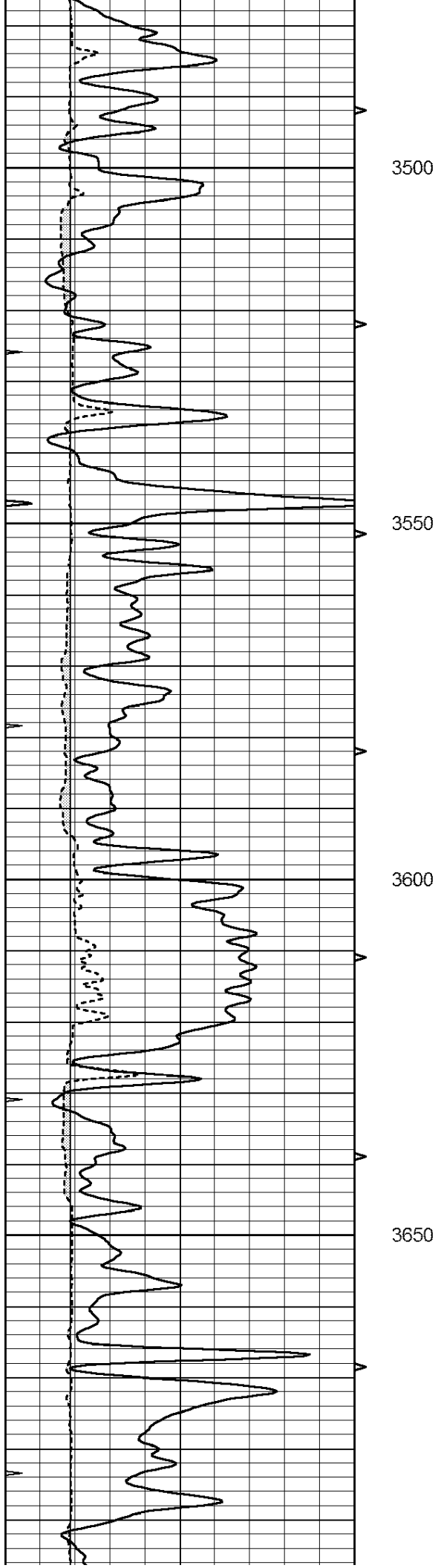
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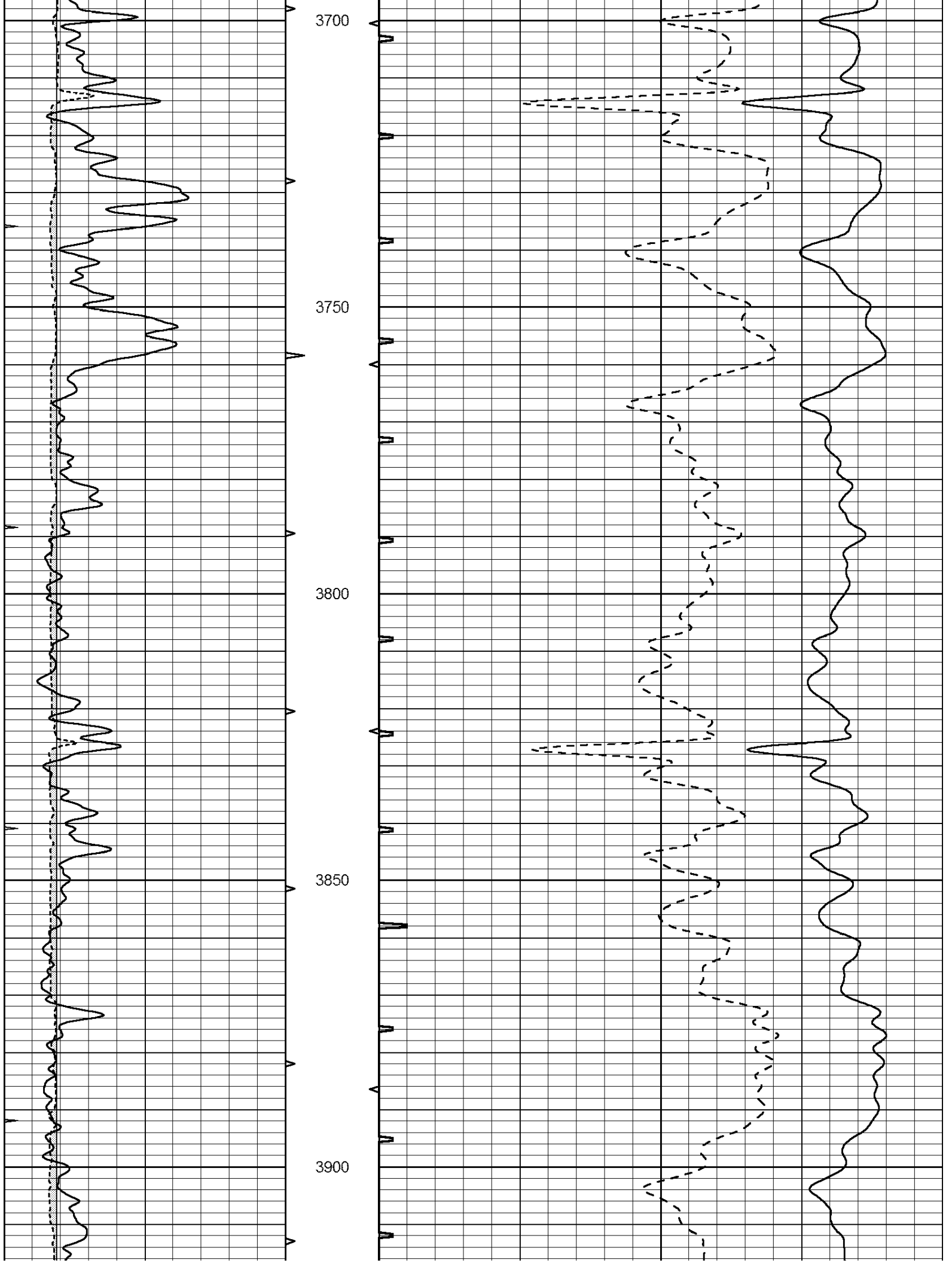
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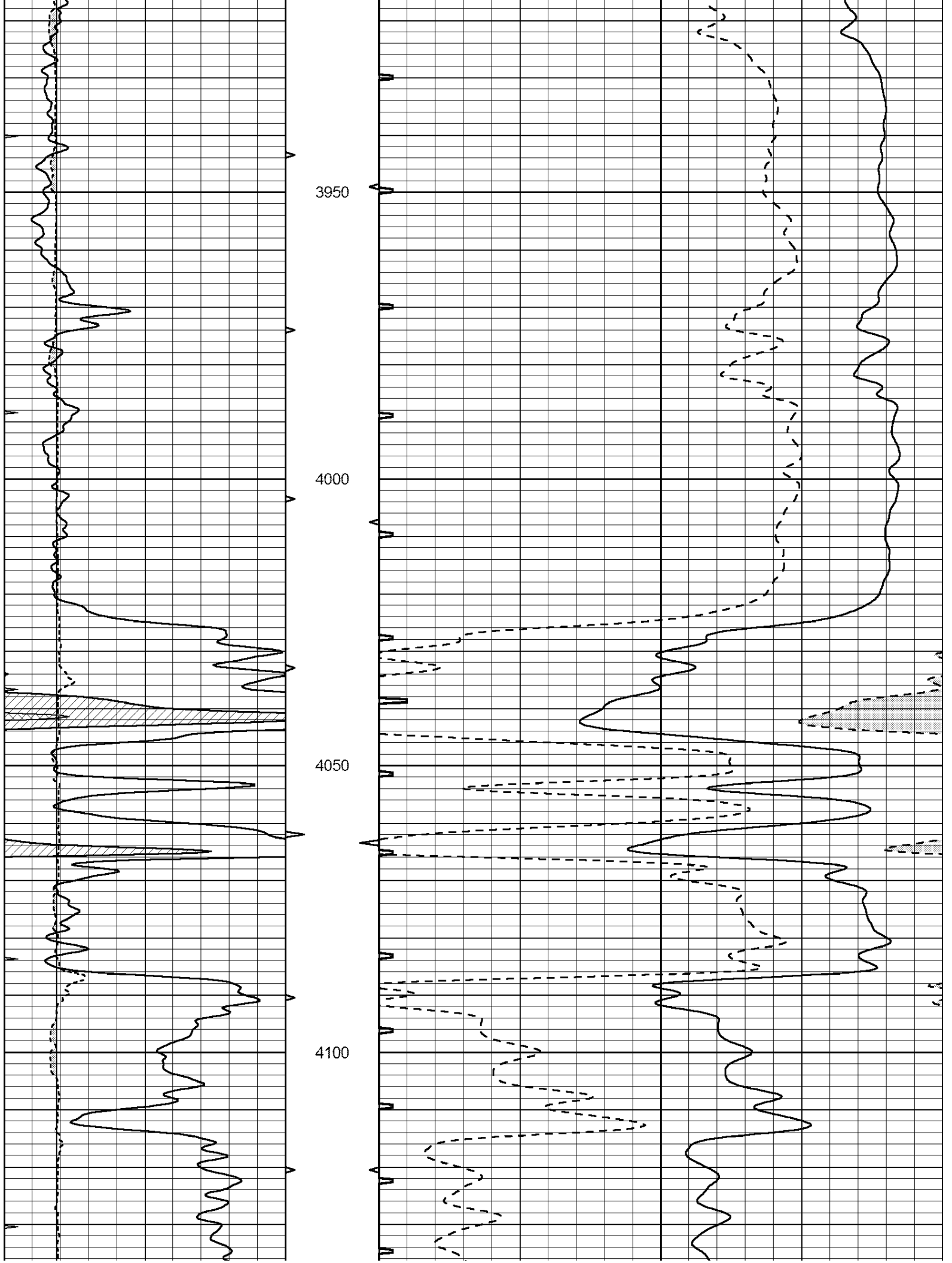
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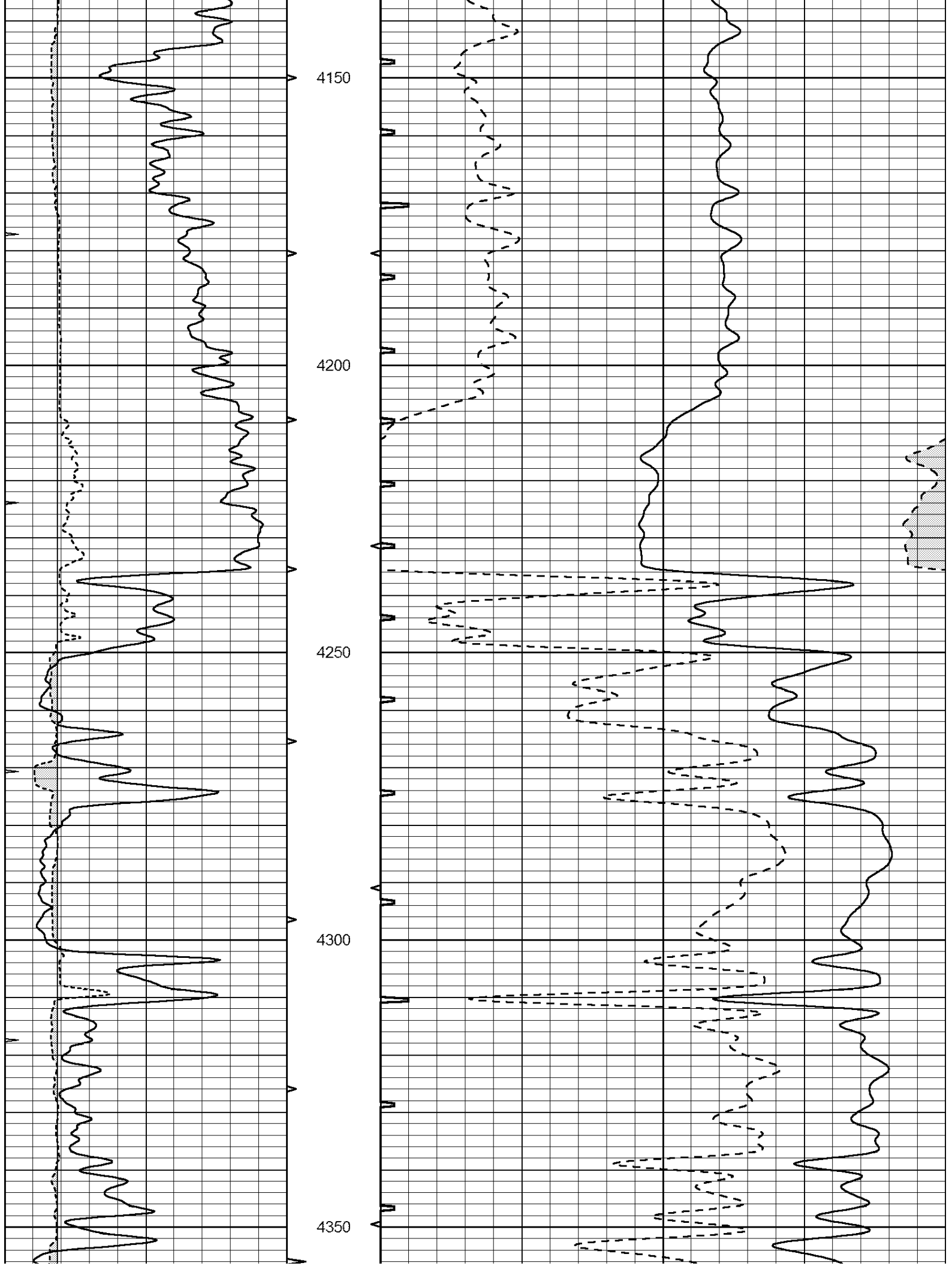
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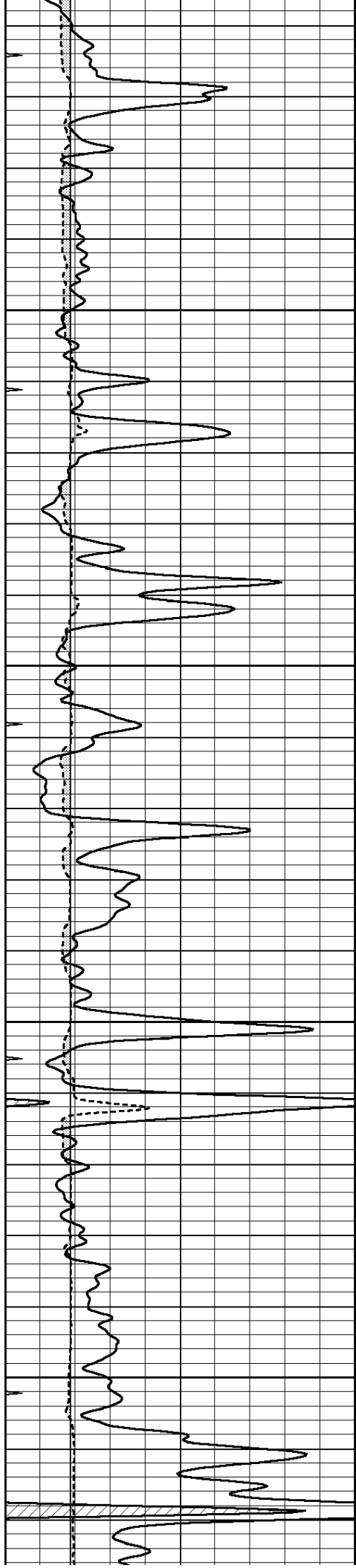










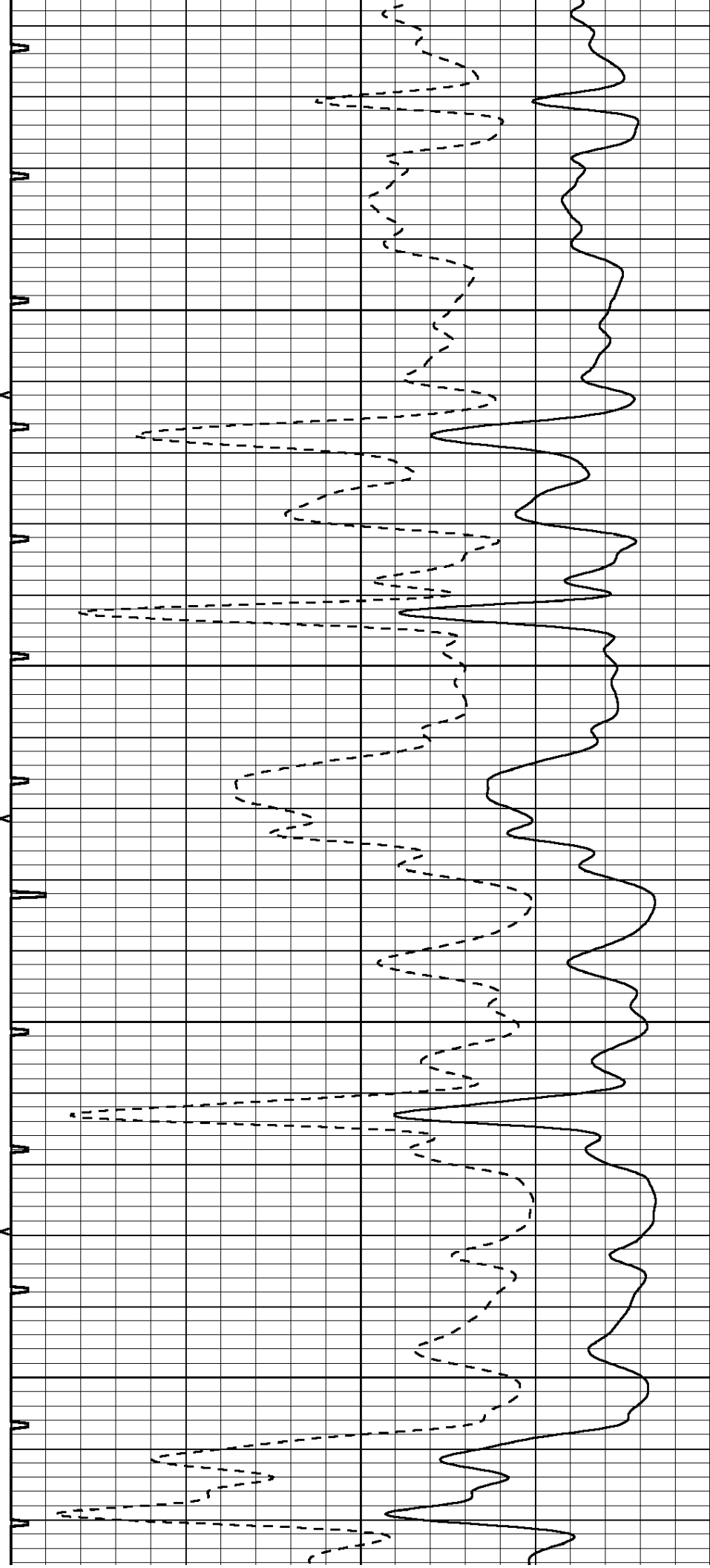


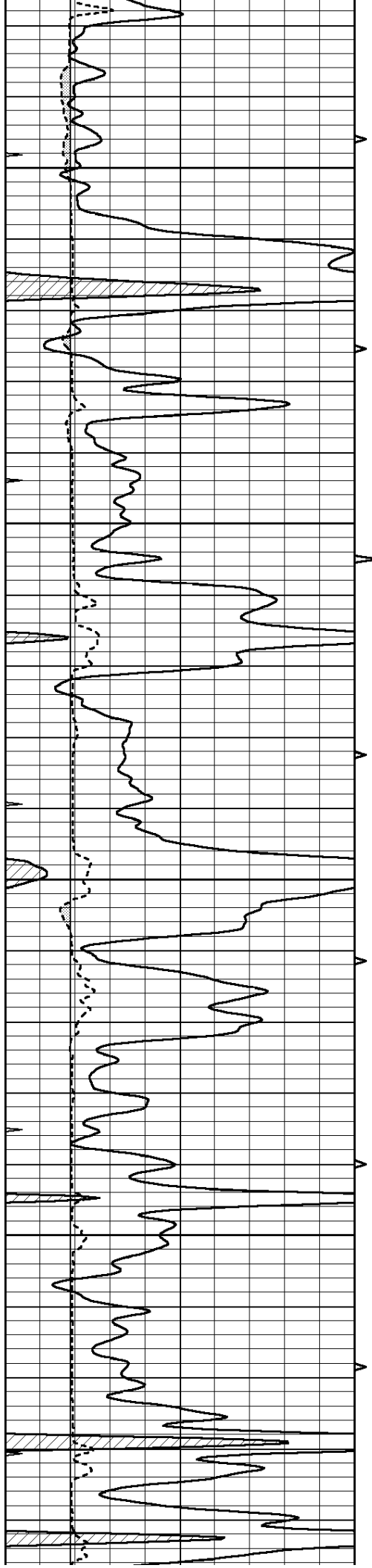
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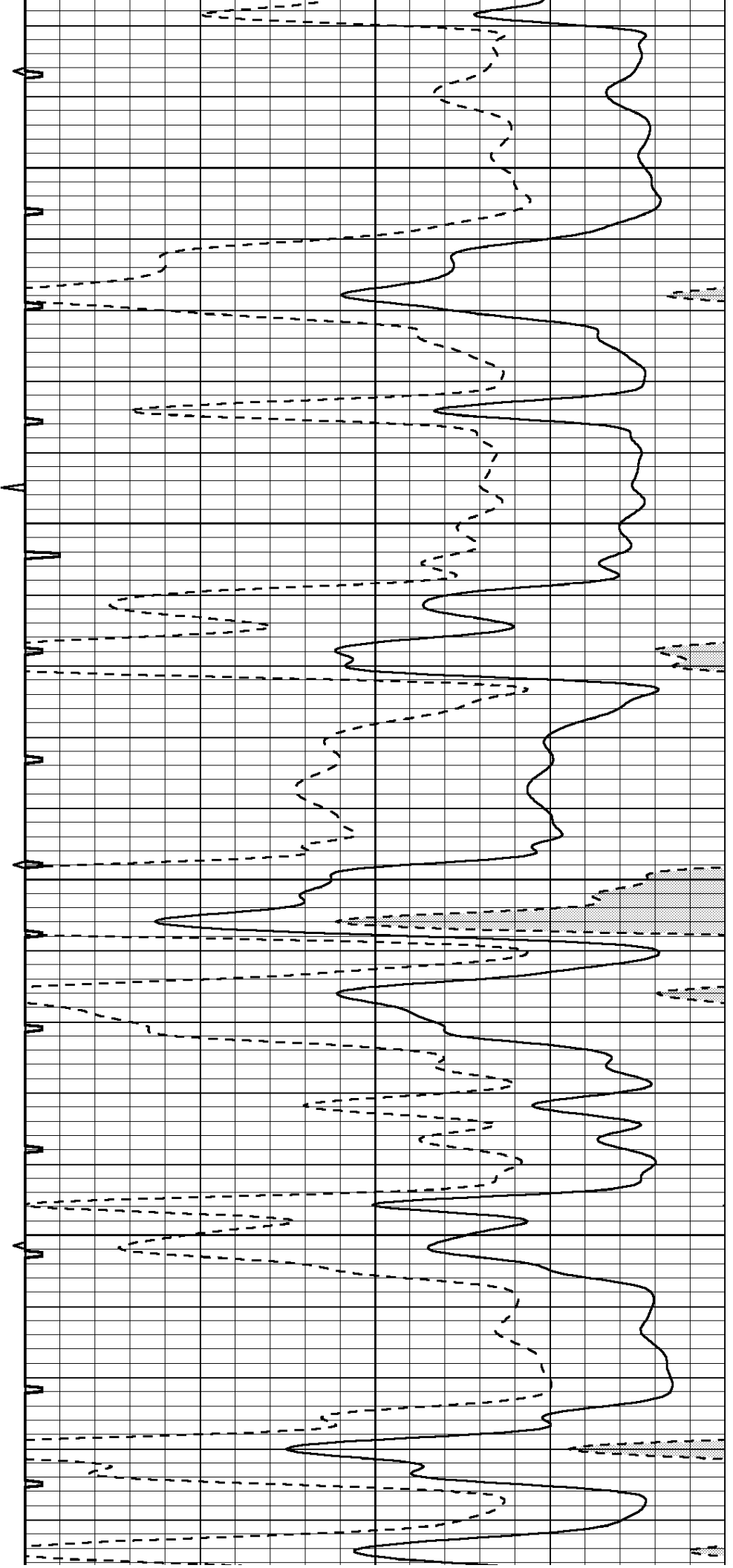


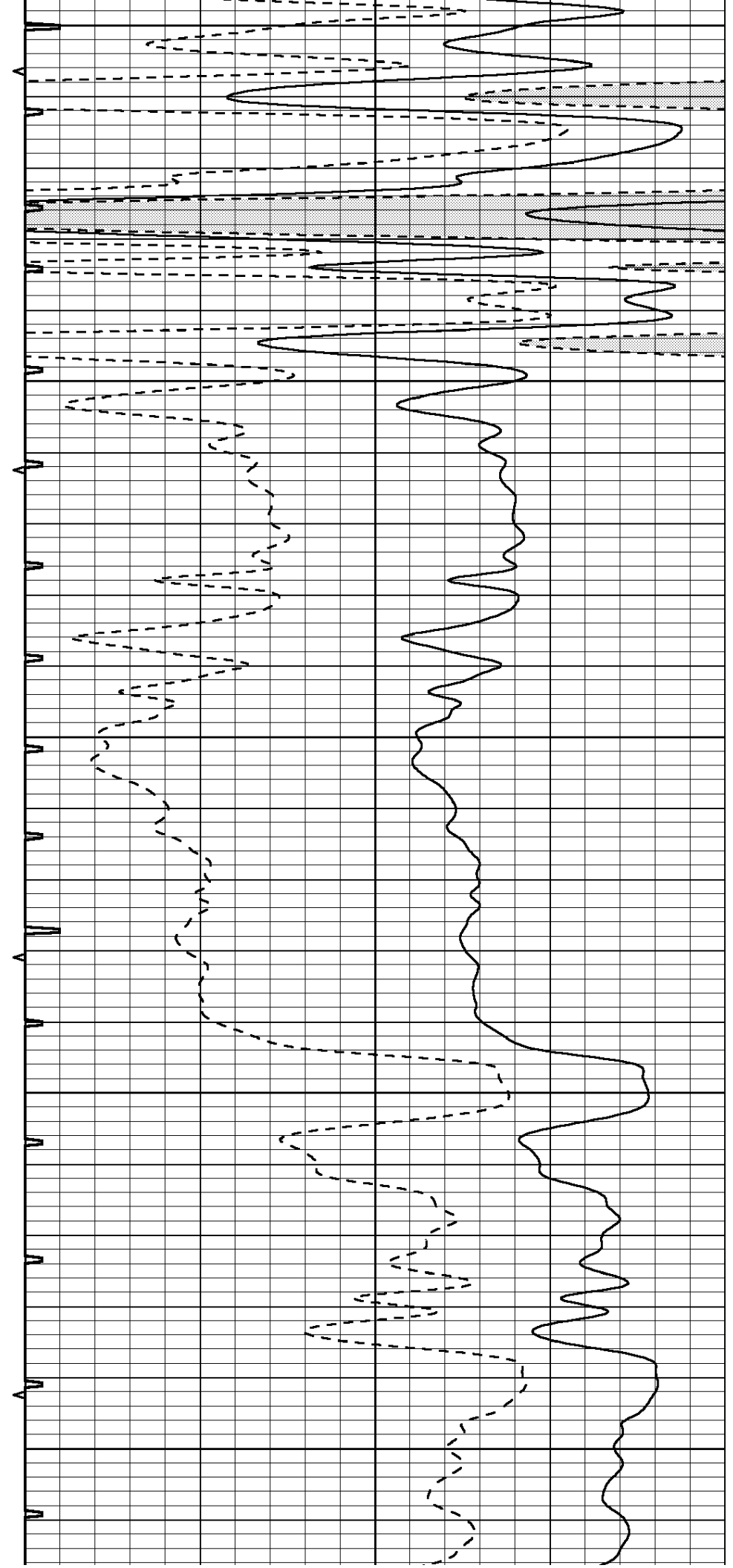
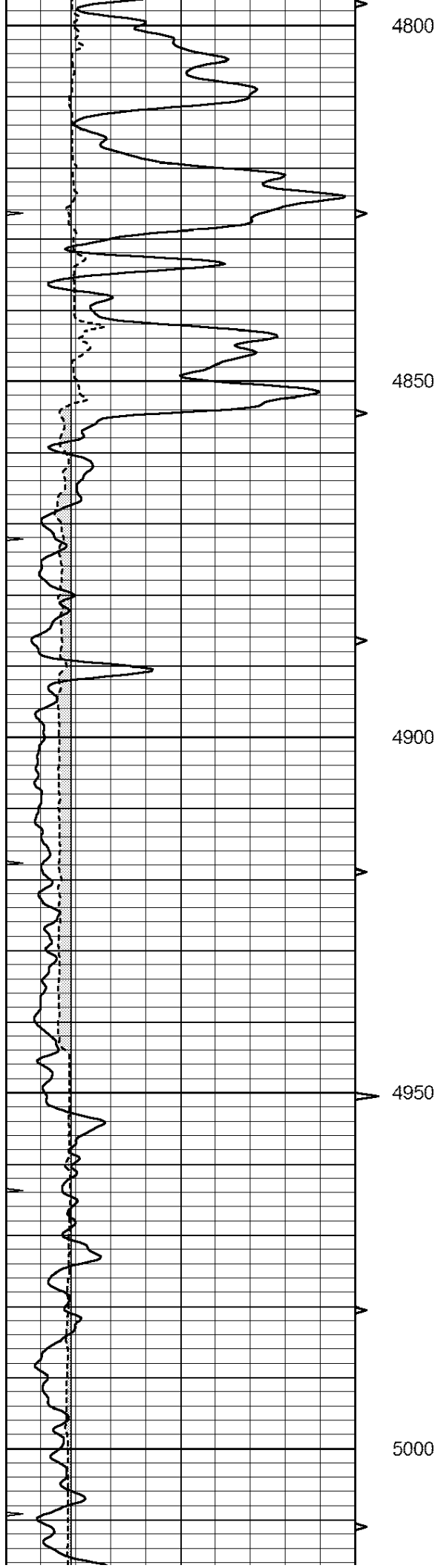
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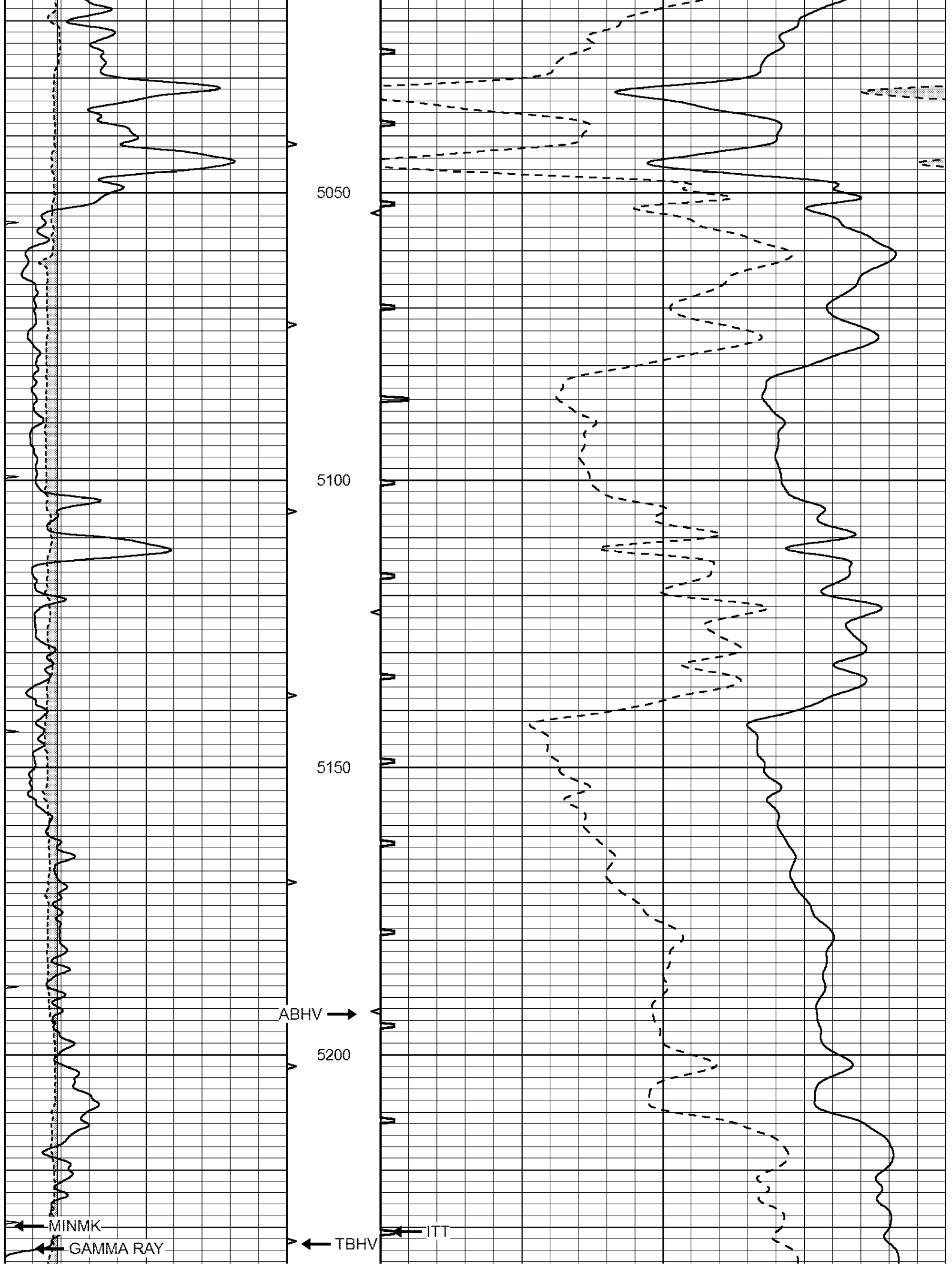
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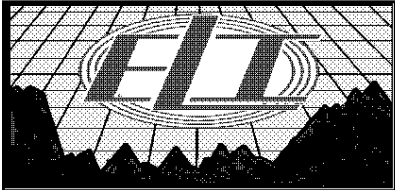
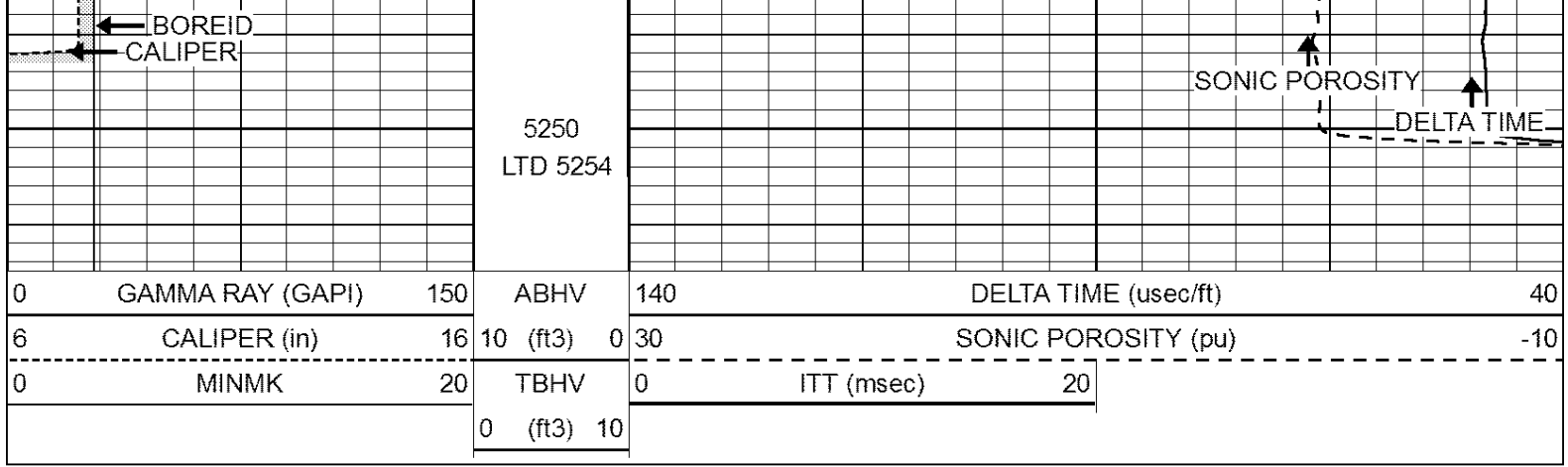
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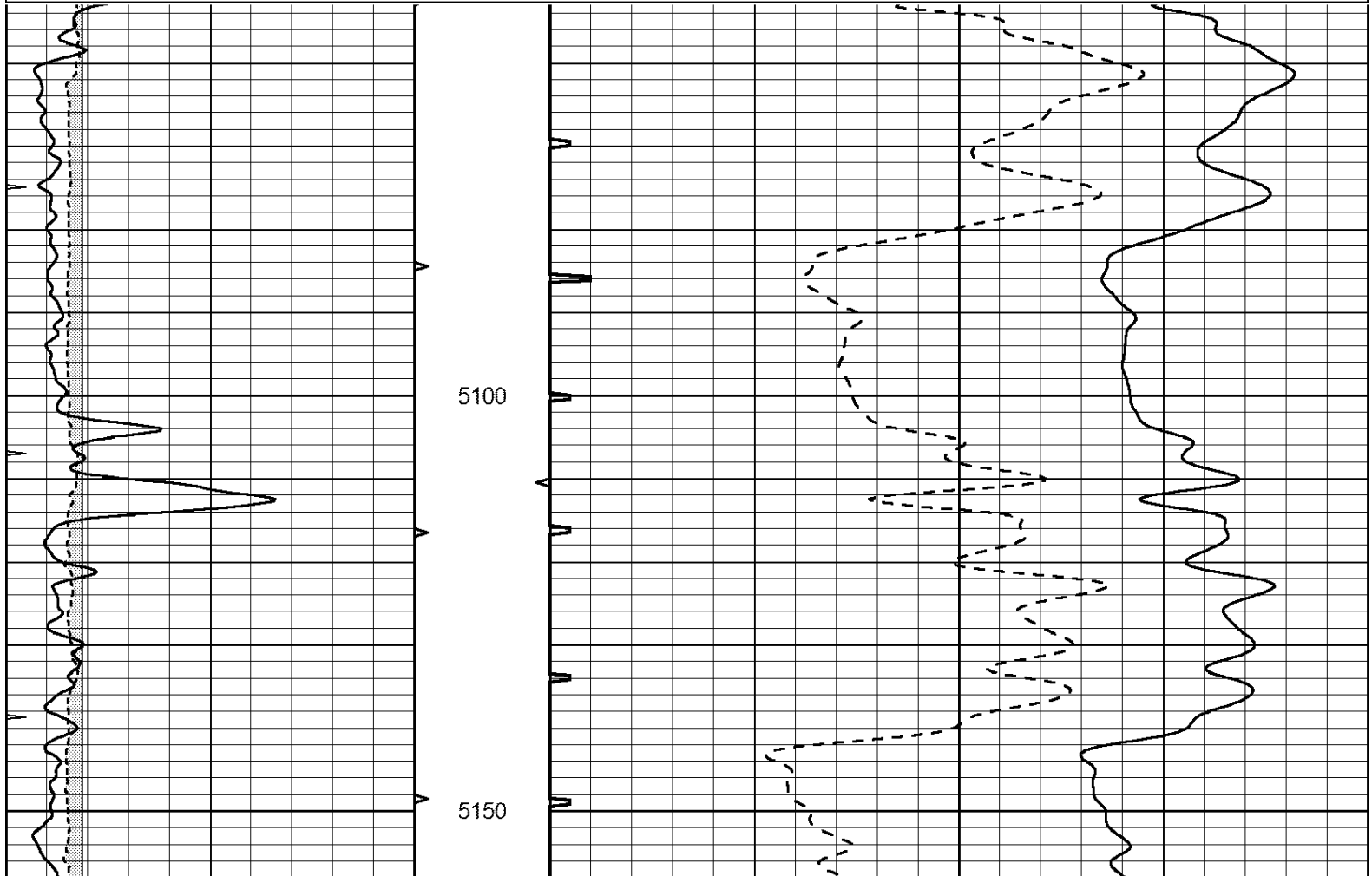
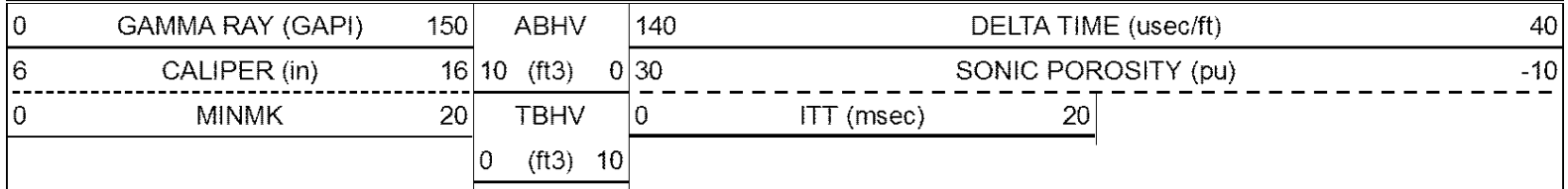


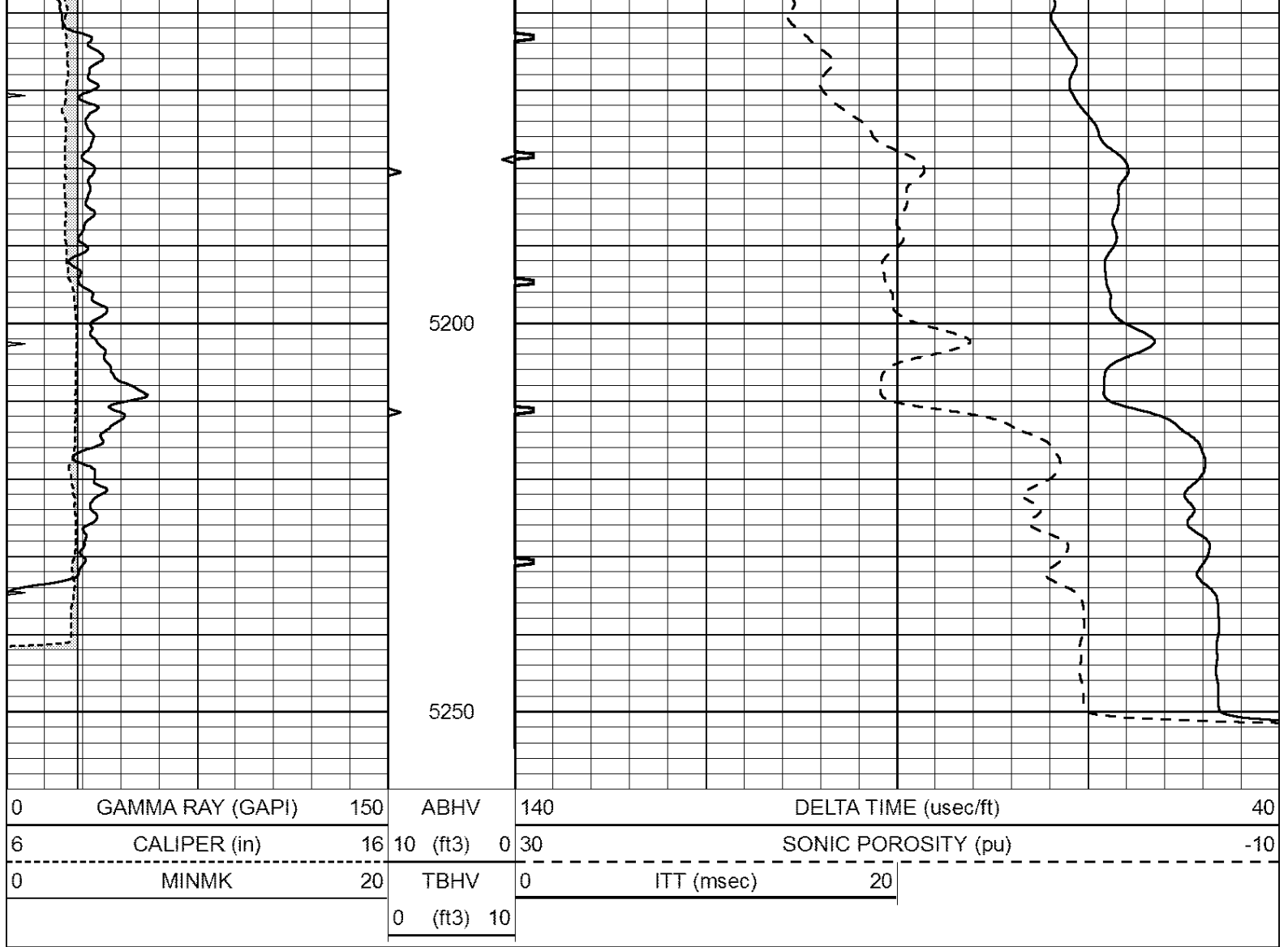




REPEAT SECTION

Database File: 2120pe.db
 Dataset Pathname: pass4
 Presentation Format: _slt
 Dataset Creation: Mon Dec 18 00:12:36 2017 by Log Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240





Calibration Report

Database File: 2120pe.db
 Dataset Pathname: pass4
 Dataset Creation: Mon Dec 18 00:12:36 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
 Readings 7.000 14.000
 0.555 2.323

1.5" Calibration: Gain=43.075 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