



SONIC LOG

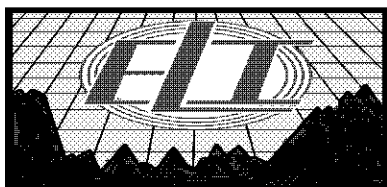
Company NORSTAR PETROLEUM, INC.	
Well HINEMAN UNIT #1-16	
Field	
County LANE	
State KANSAS	
Location: API #: 15-101-22586-00-00	
1222' FSL & 1086' FEL	
County LANE	State KANSAS
Permanent Datum SEC 16 TWP 19S RGE 27W	Other Services CDL/CNL/PE DIL/MEL
Log Measured From GROUND LEVEL Elevation 2702	Elevation
Drilling Measured From KELLY BUSHING 7' A.G.L	K.B. 2709 D.F. 2707 G.L. 2702
Date 2/23/17	
Run Number TWO	
Depth Driller 4718	
Depth Logger 4722	
Bottom Logged Interval 4712	
Top Log Interval 250	
Casing Driller 8 5/8" @ 290	
Casing Logger 290	
Bit Size 7 7/8	
Type Fluid in Hole CHEMICAL MUD	CHLORIDES 3000 PPM
Density / Viscosity 9.4/59	
pH / Fluid Loss 10.5/7.6	
Source of Sample FLOWLINE	
Rm @ Meas. Temp 1.60 @ 79F	
Rmf @ Meas. Temp 1.20 @ 79F	
Rmc @ Meas. Temp 1.92 @ 79F	
Source of Rmf / Rmc MEASUREMENT	
Rm @ BHT 1.03 @ 122F	
Time Circulation Stopped 2 HOURS	
Time Logger on Bottom	
Maximum Recorded Temperature 122F	
Equipment Number 3802	
Location HAYS, KANSAS	
Recorded By JASON CAPELLUCCI	
Witnessed By WES HANSEN	

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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

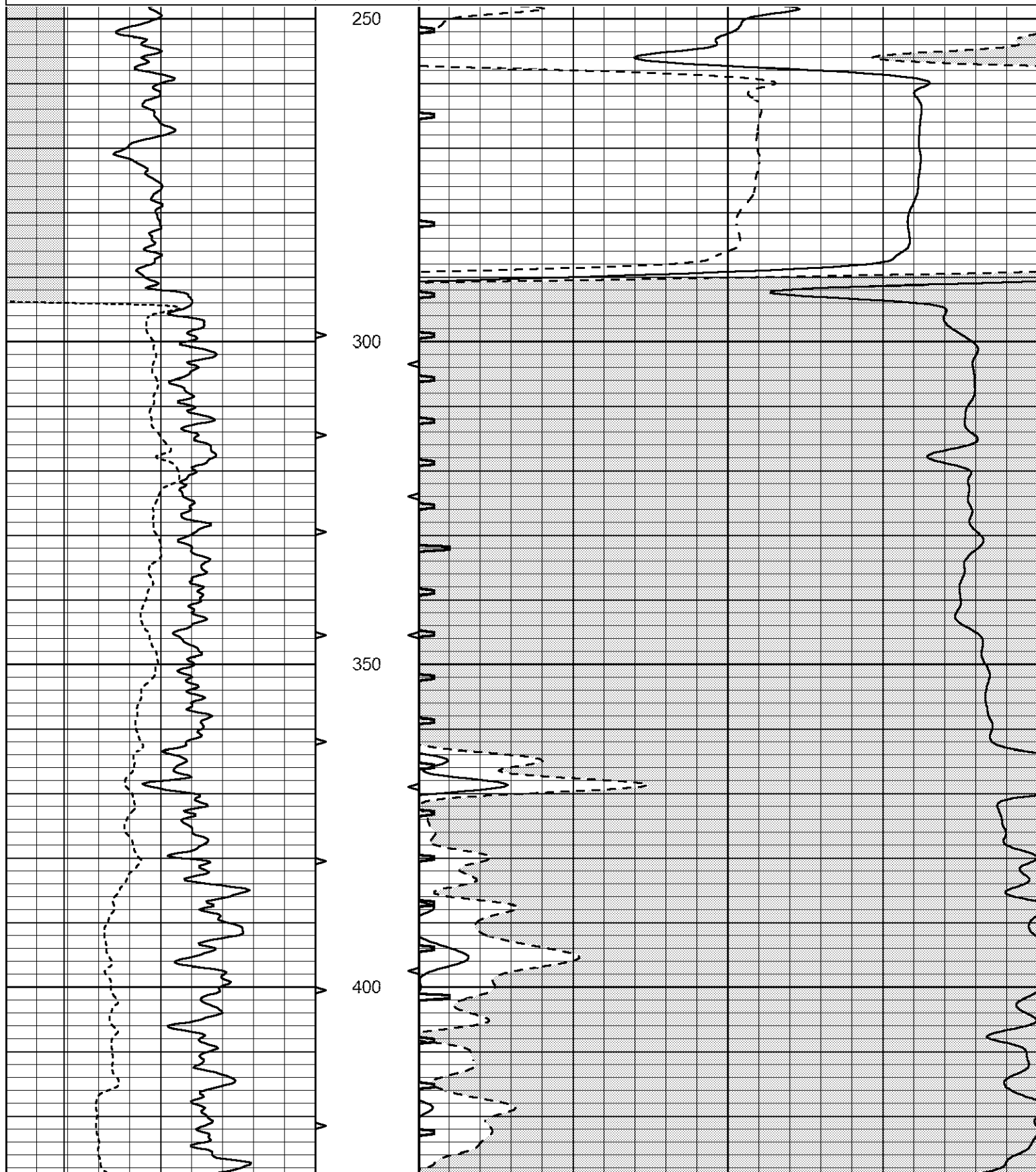
THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
DIRECTIONS
ALAMOTA, KS. - 6 SOUTH ON TURKEY RED RD. TO 90 RD. - 1/4 WEST - NORTH INTO

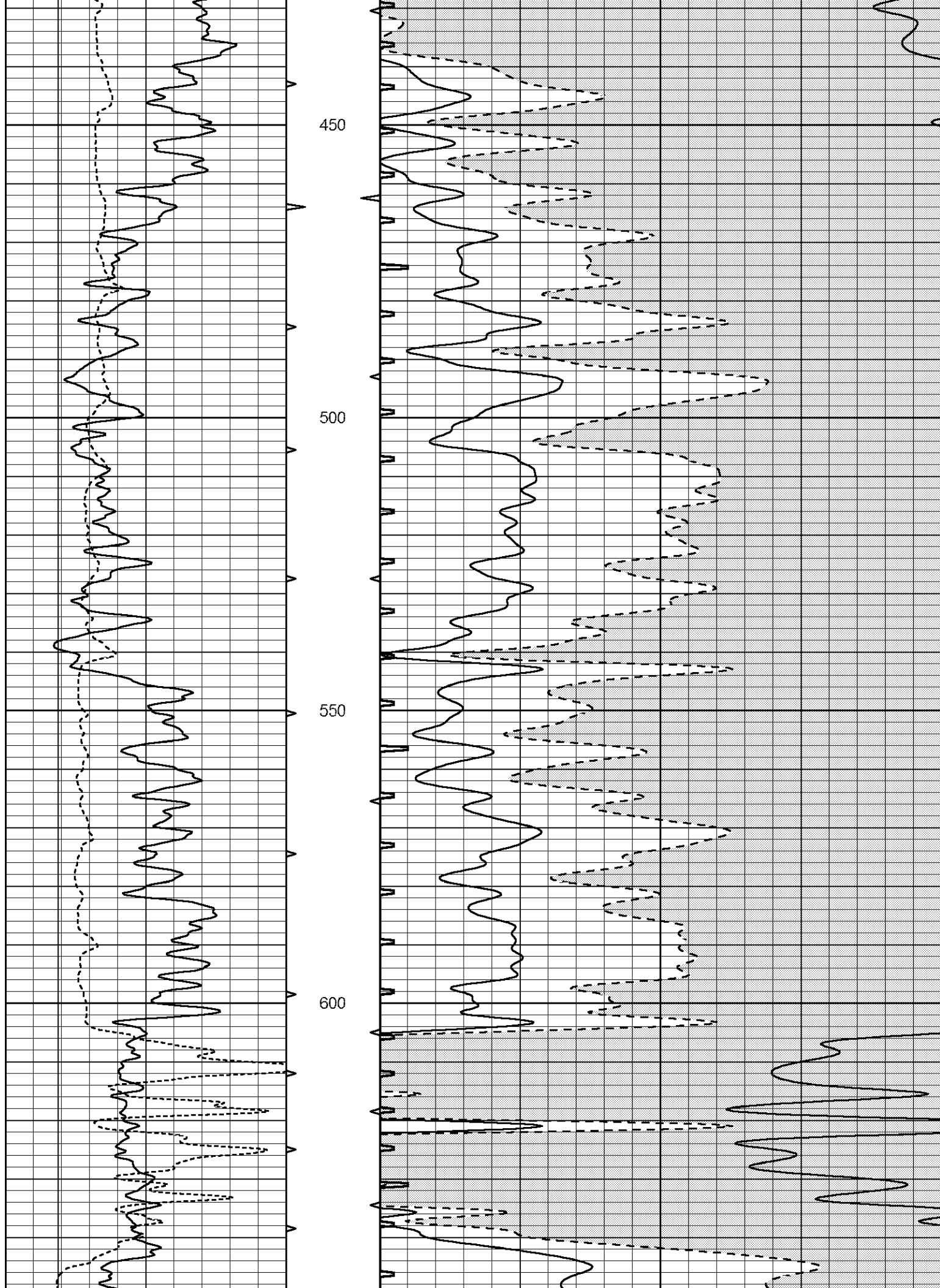


MAIN SECTION

Database File 1121ddn8.db
Dataset Pathname pass7.2
Presentation Format _slt
Dataset Creation Thu Feb 23 13:04:37 2017
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
			TBHV	0	ITT (msec)	20
			0 (ft3) 10			





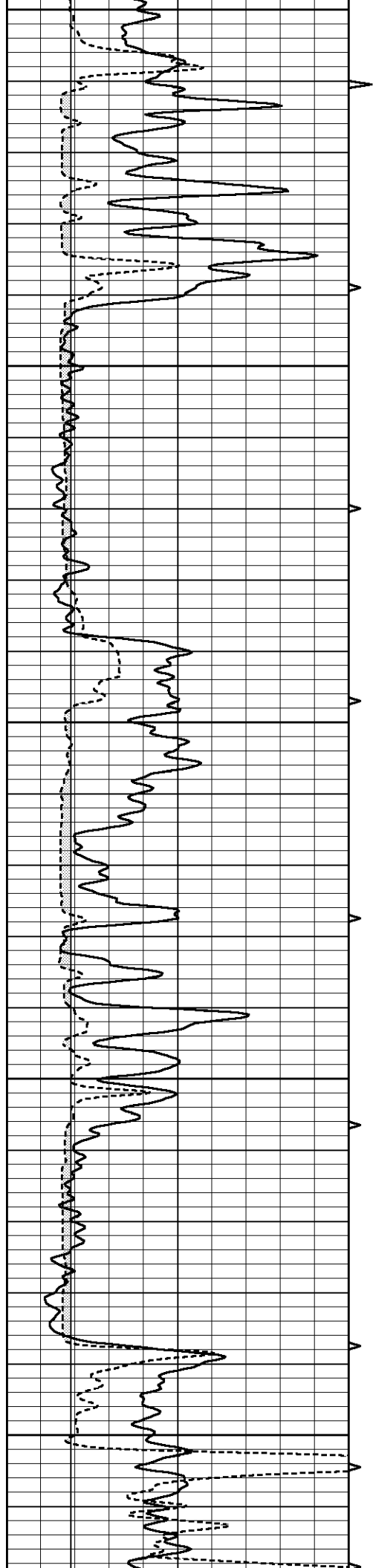
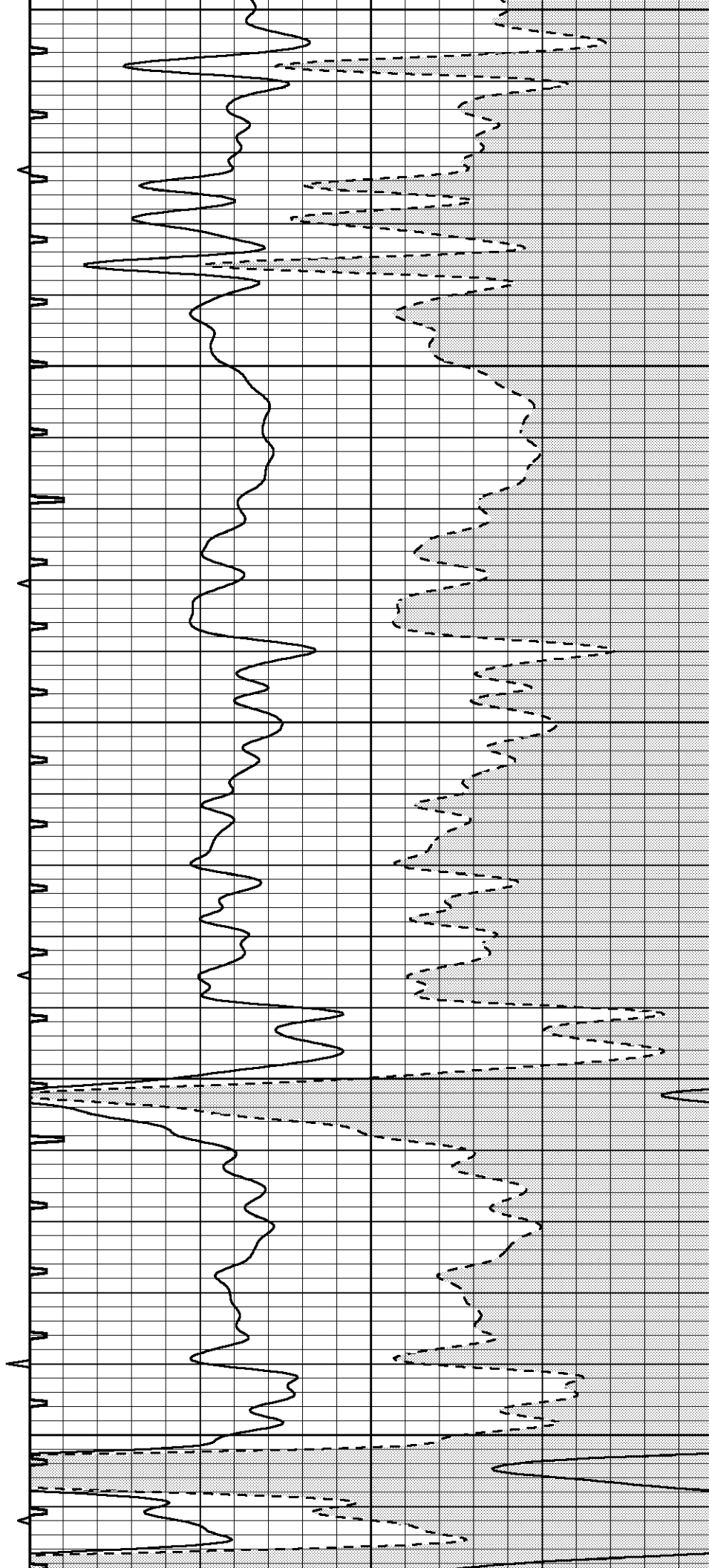
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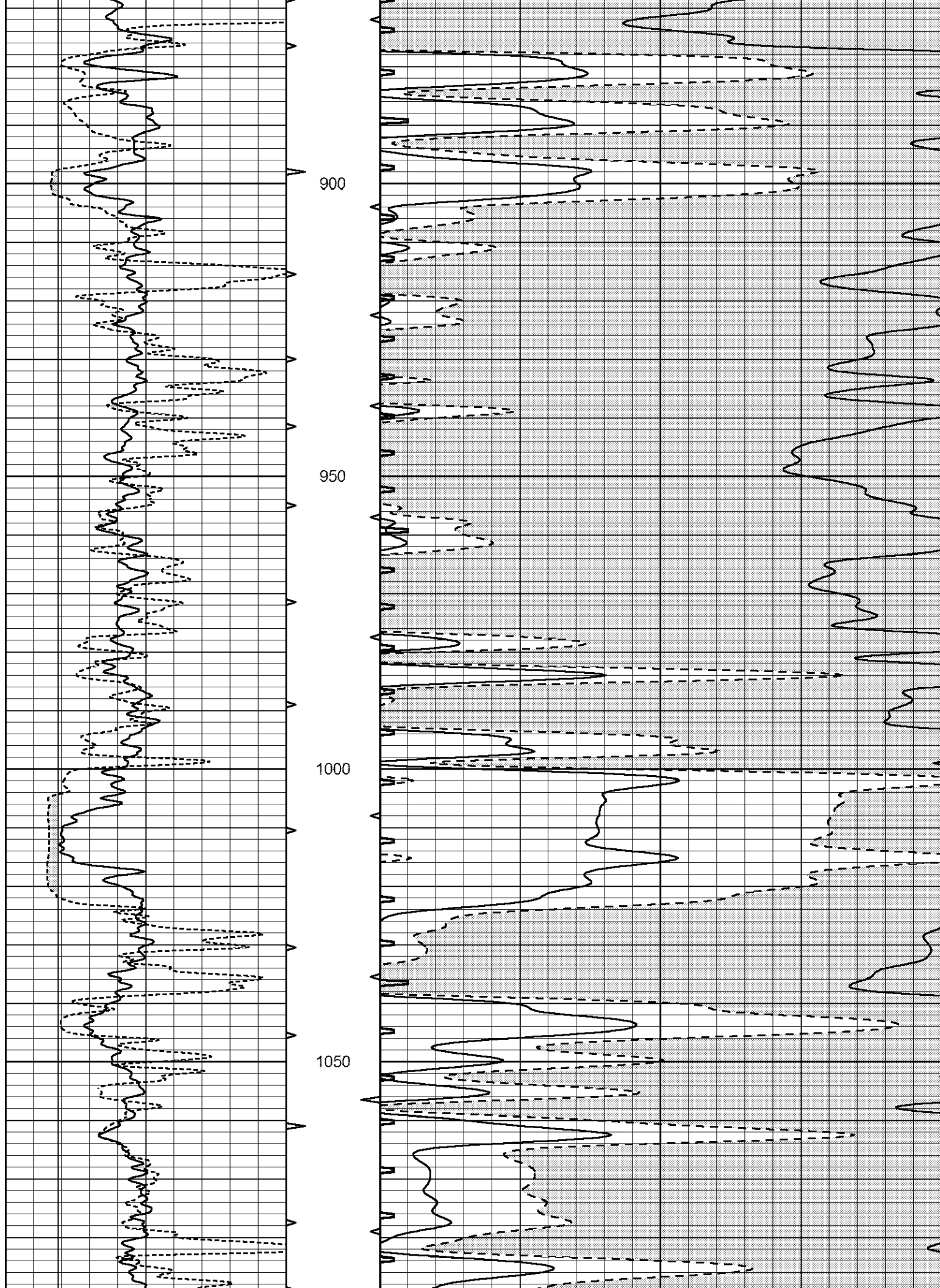
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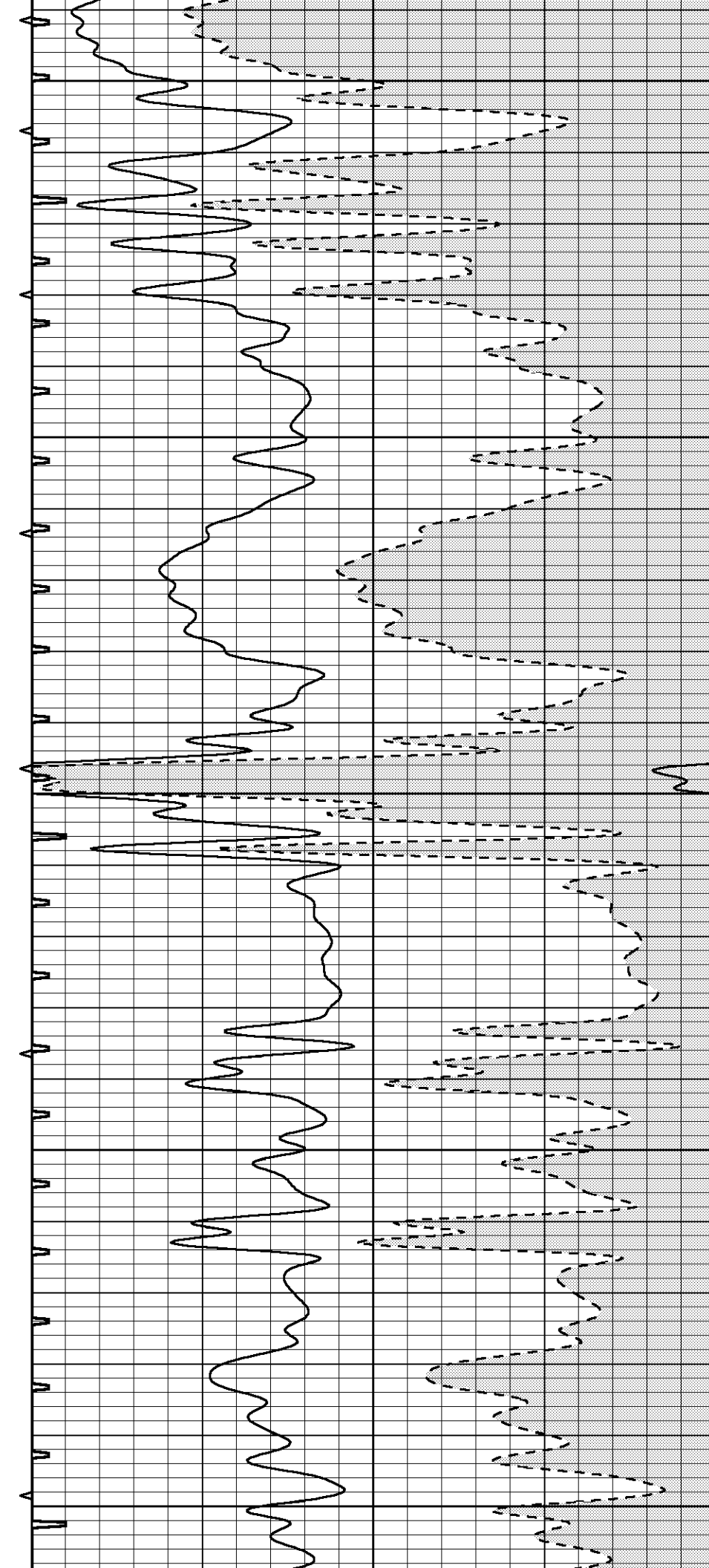
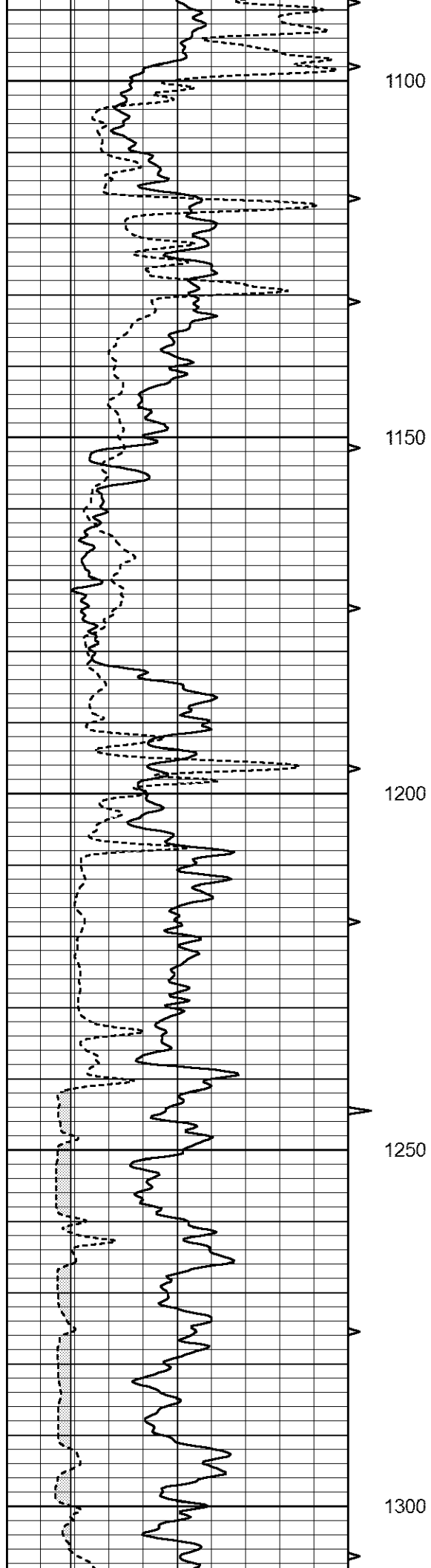
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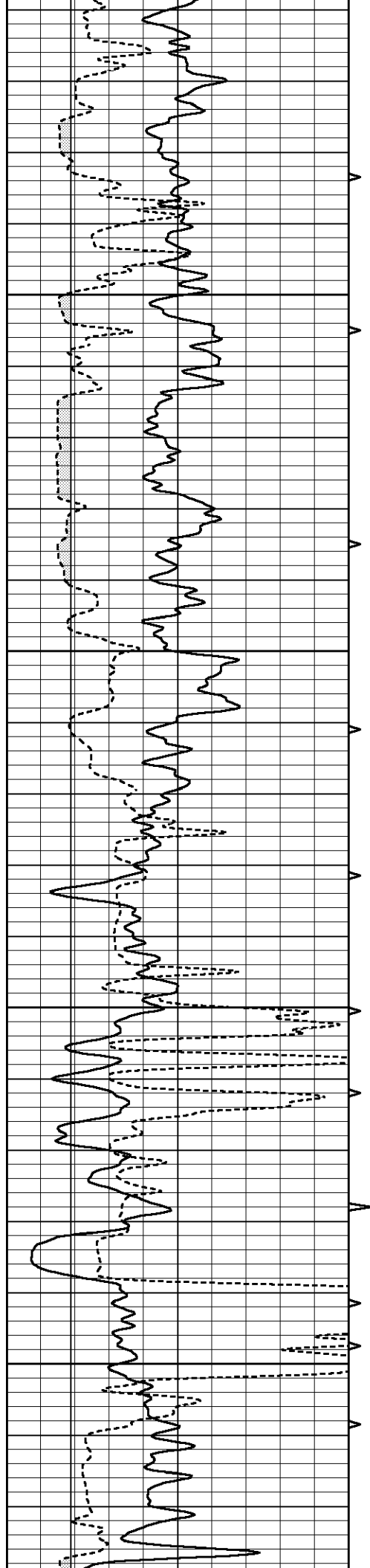
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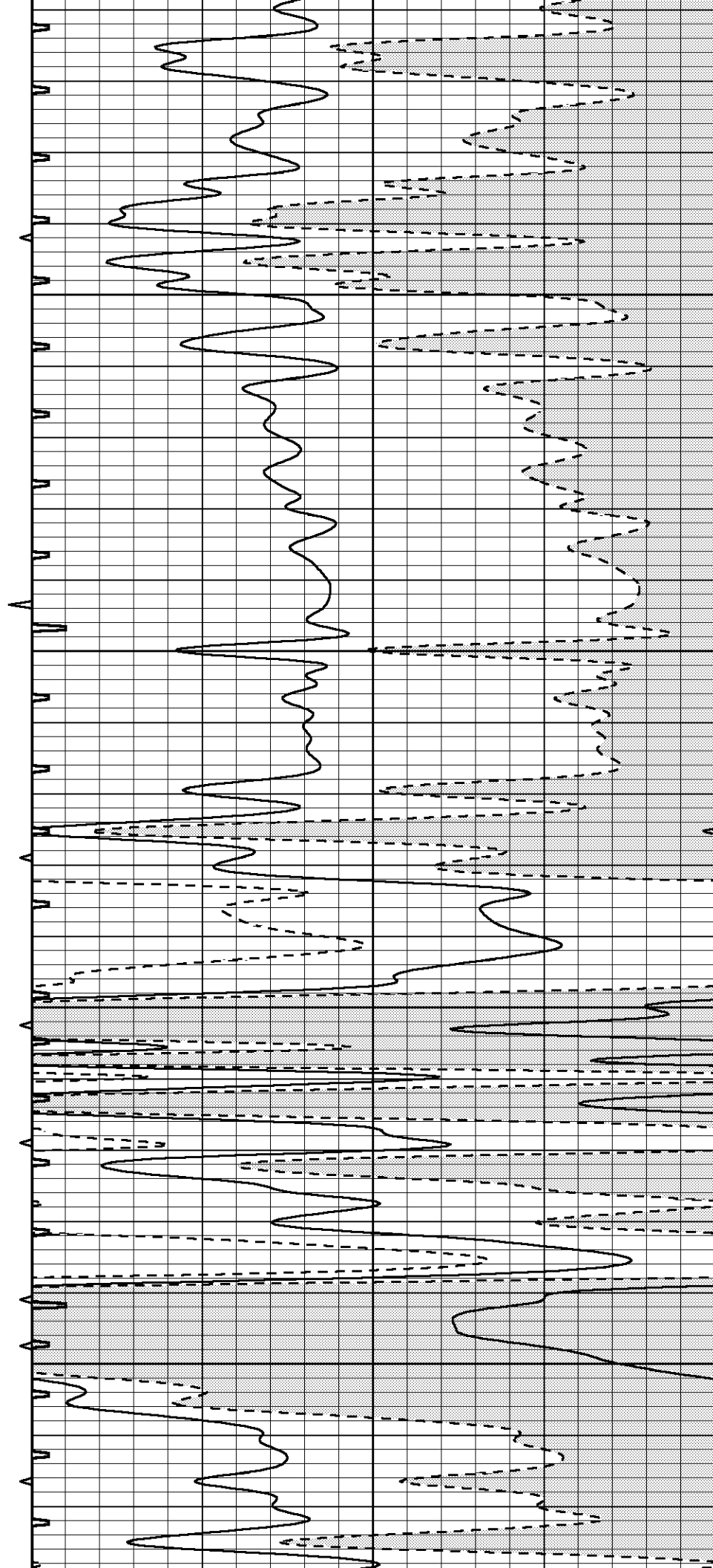


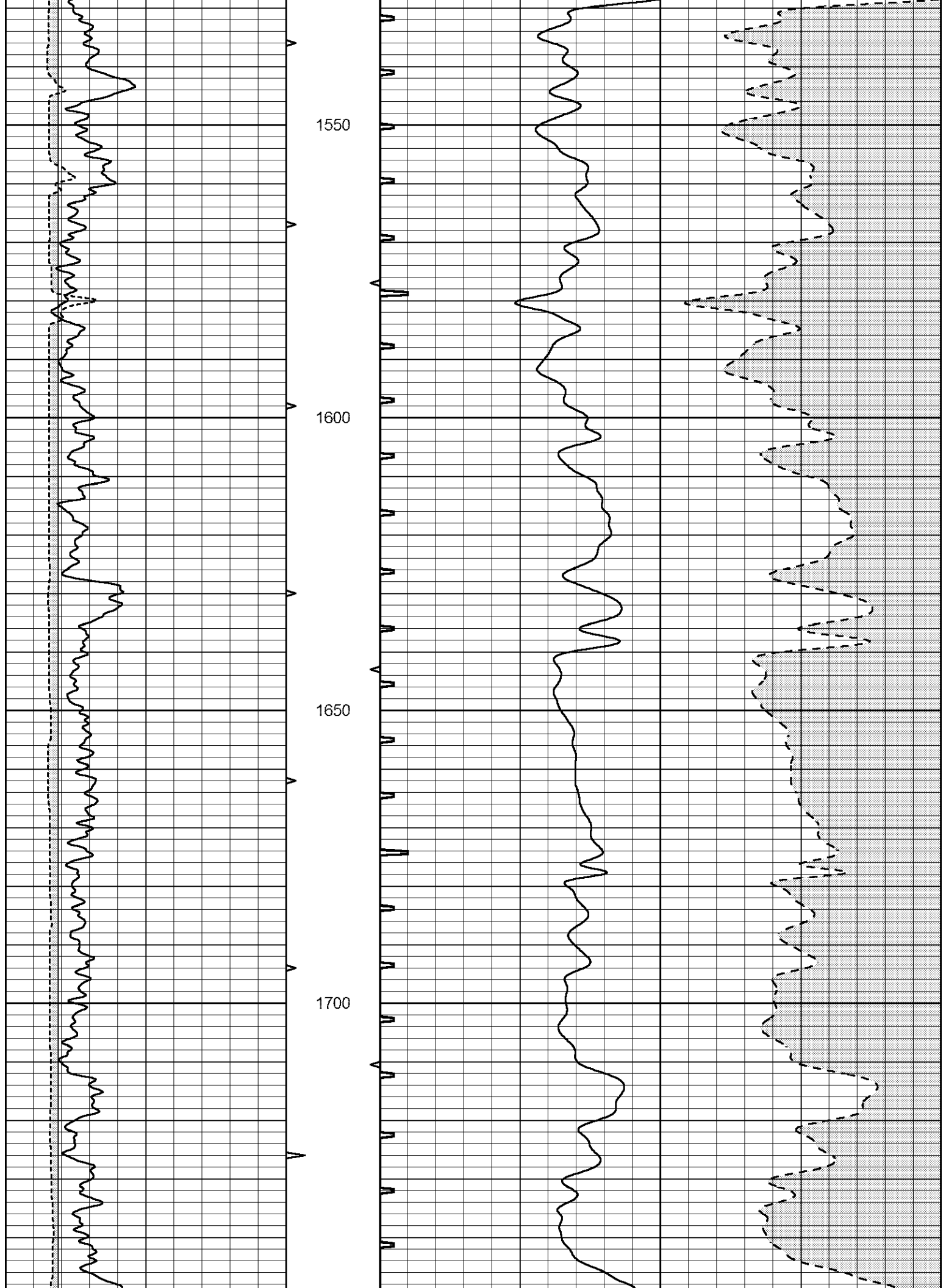
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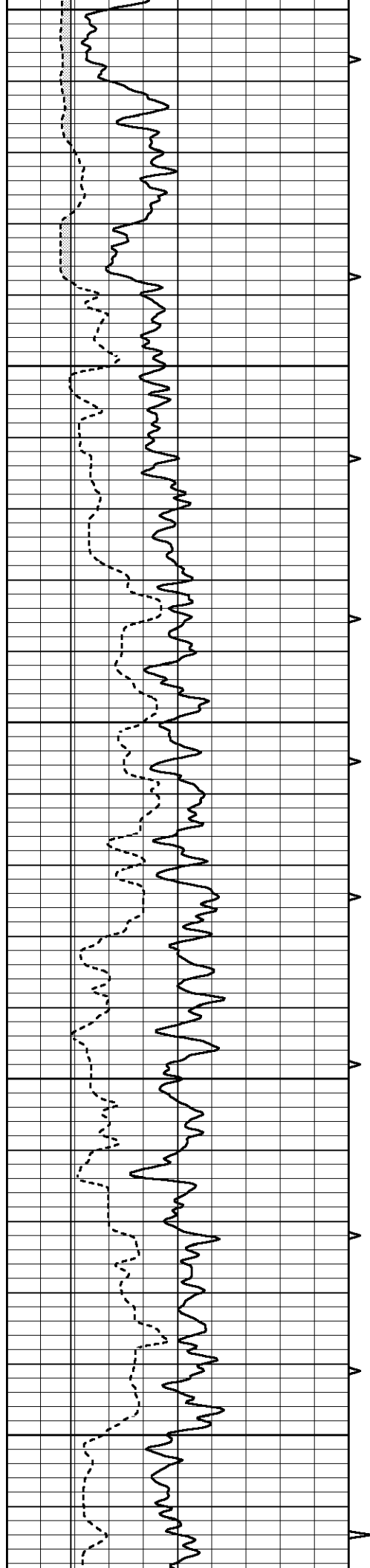
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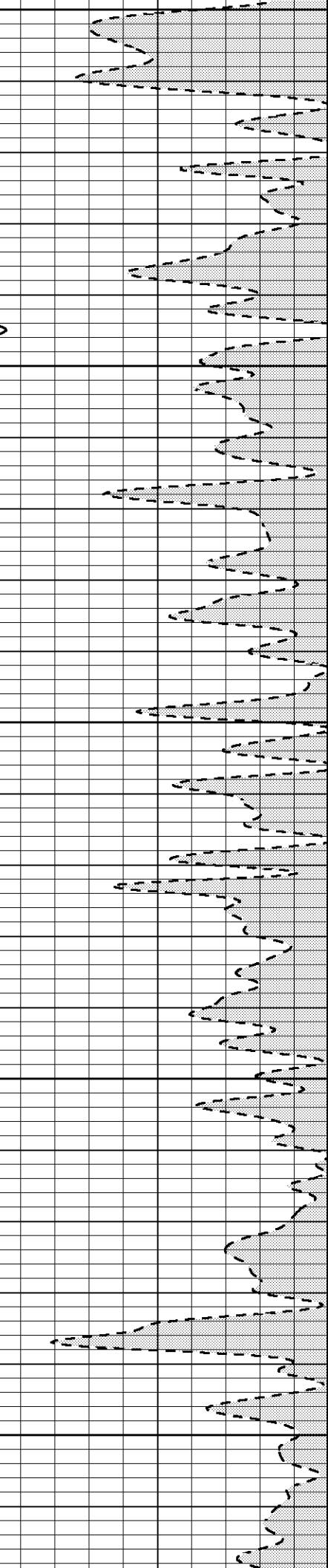
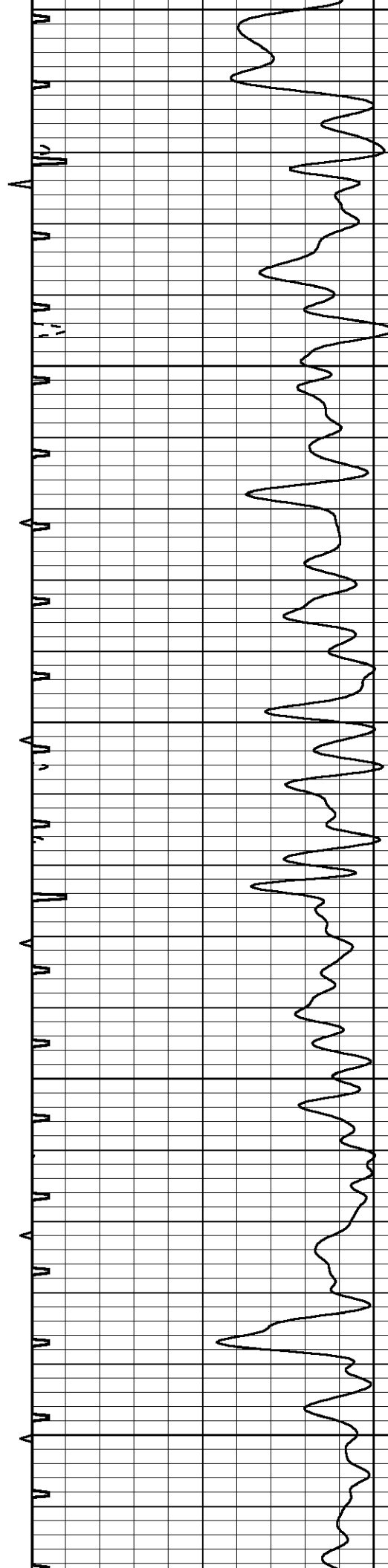
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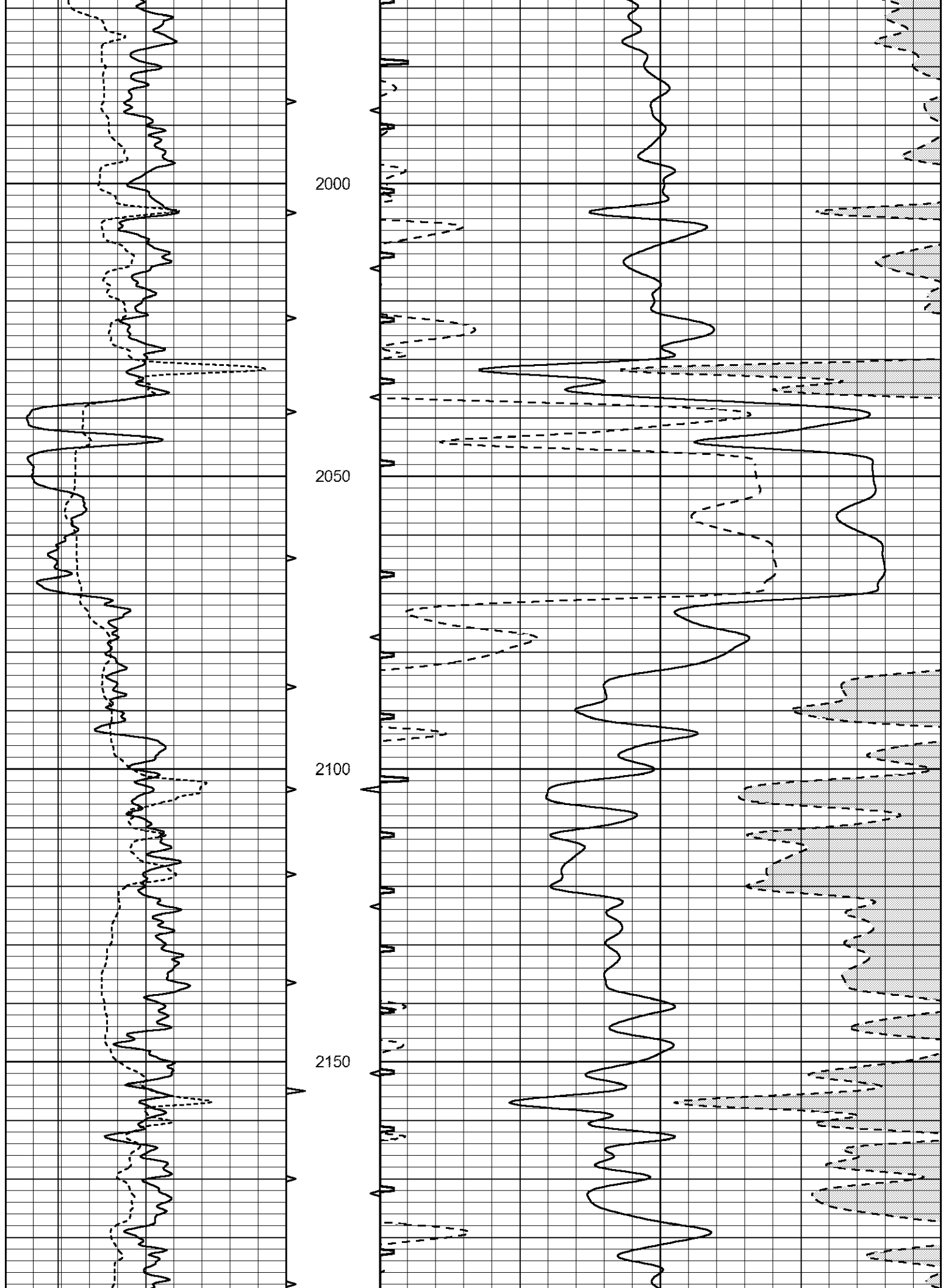


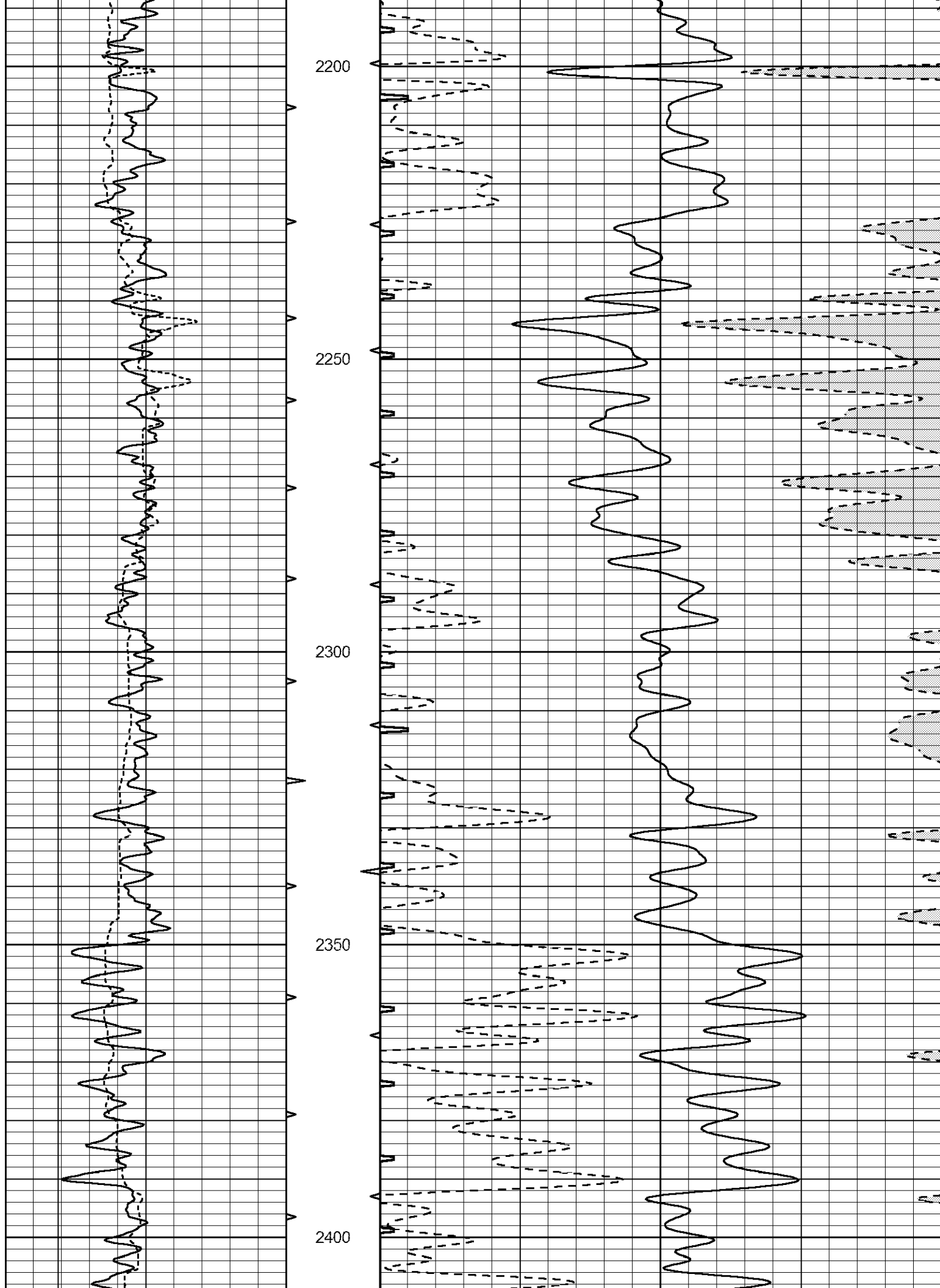


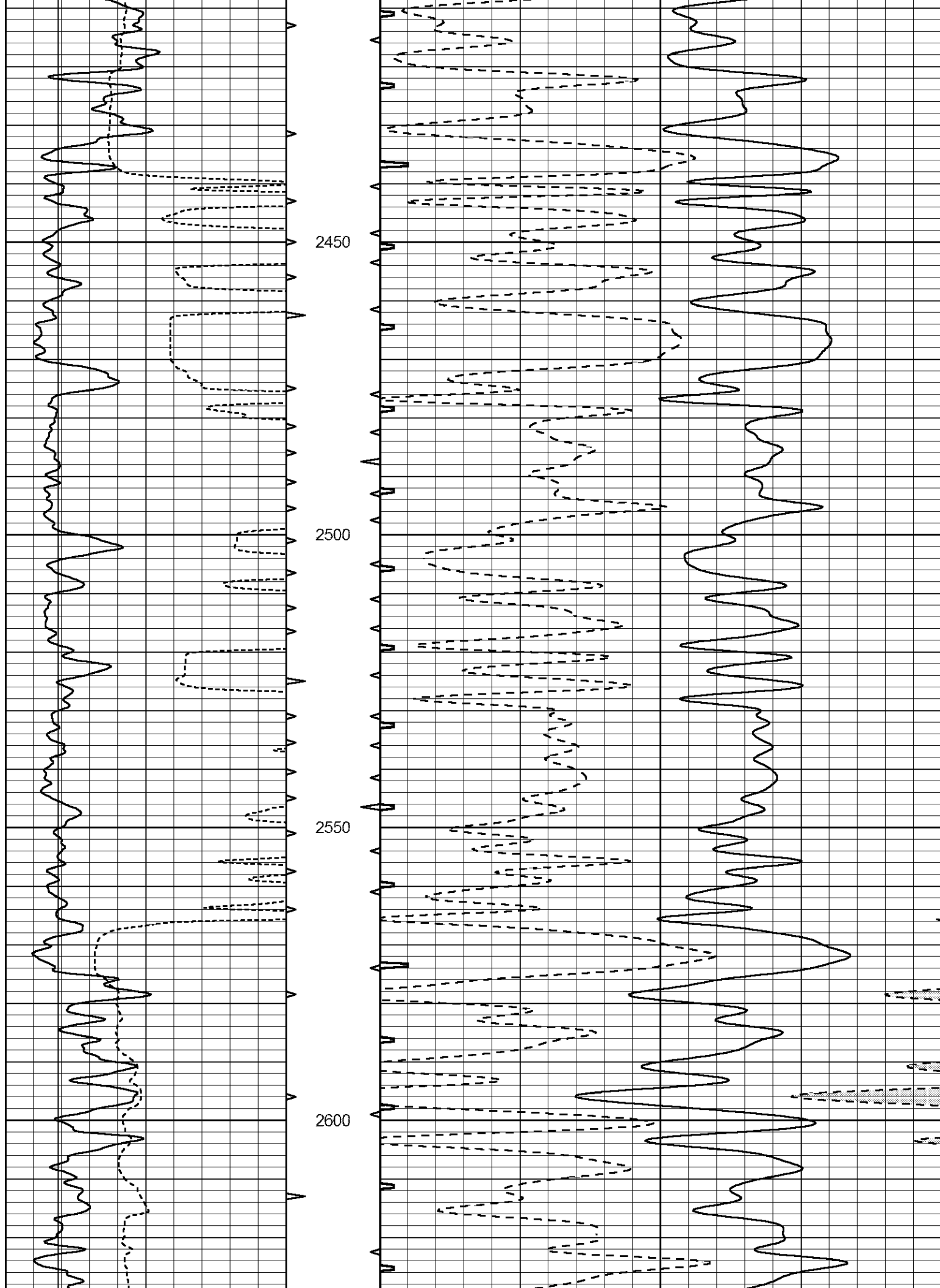


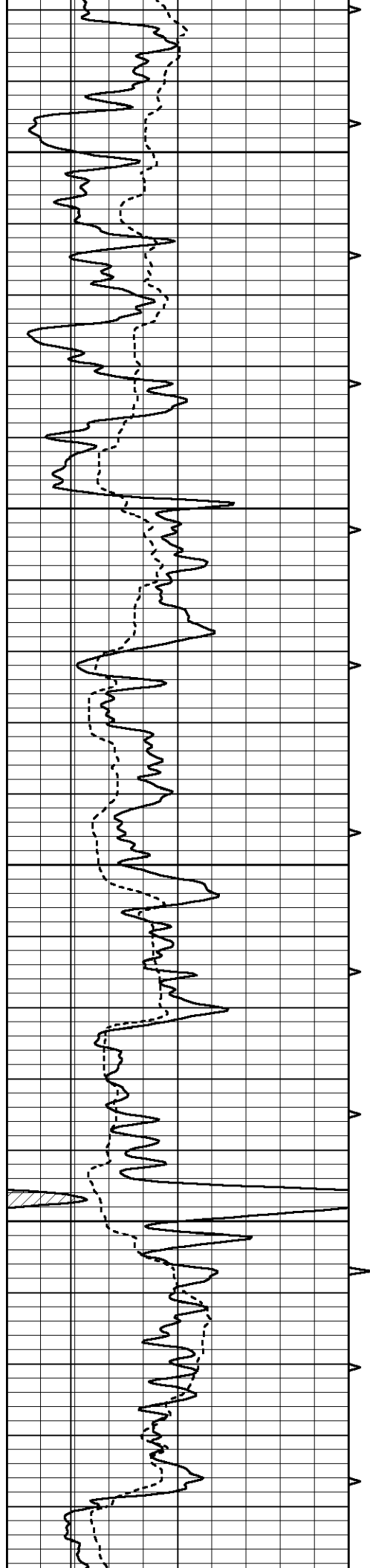
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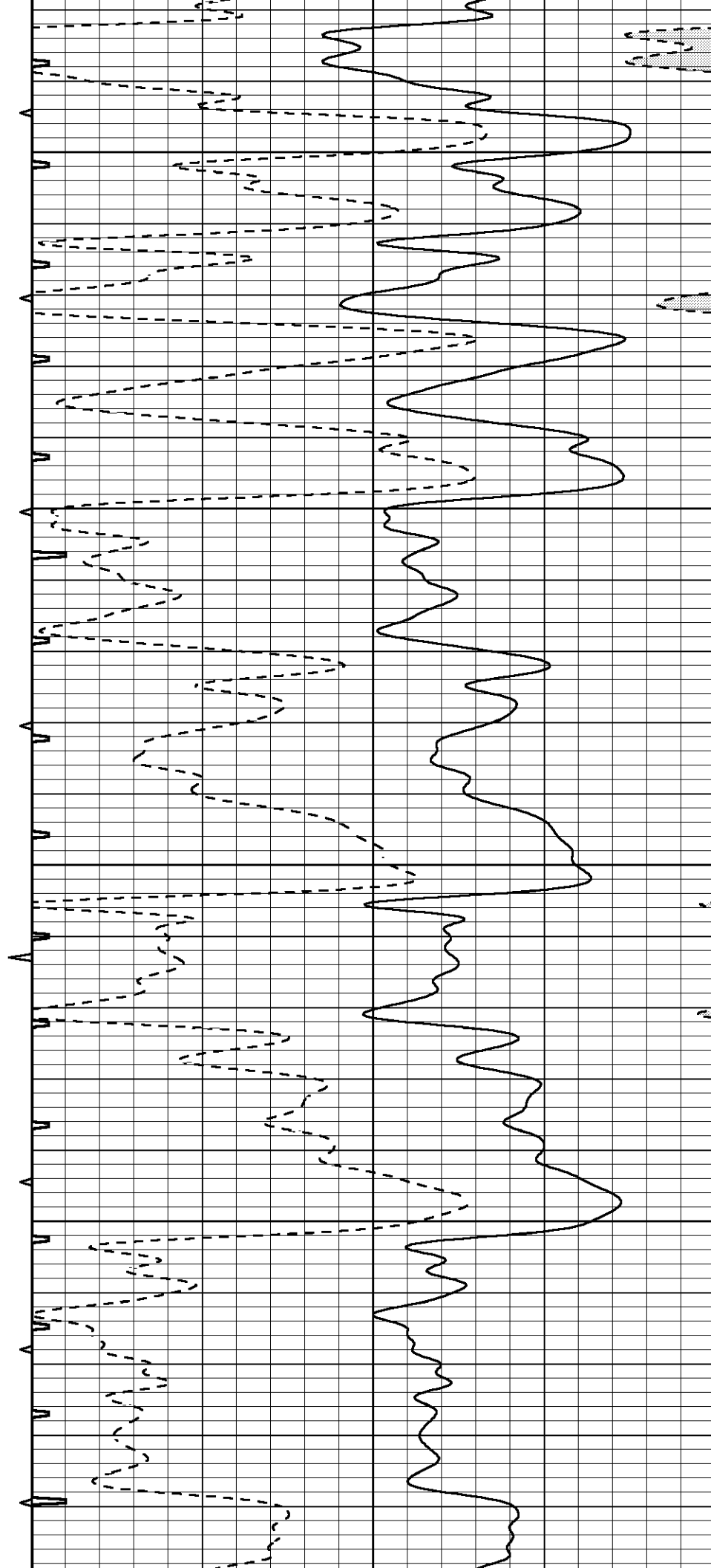


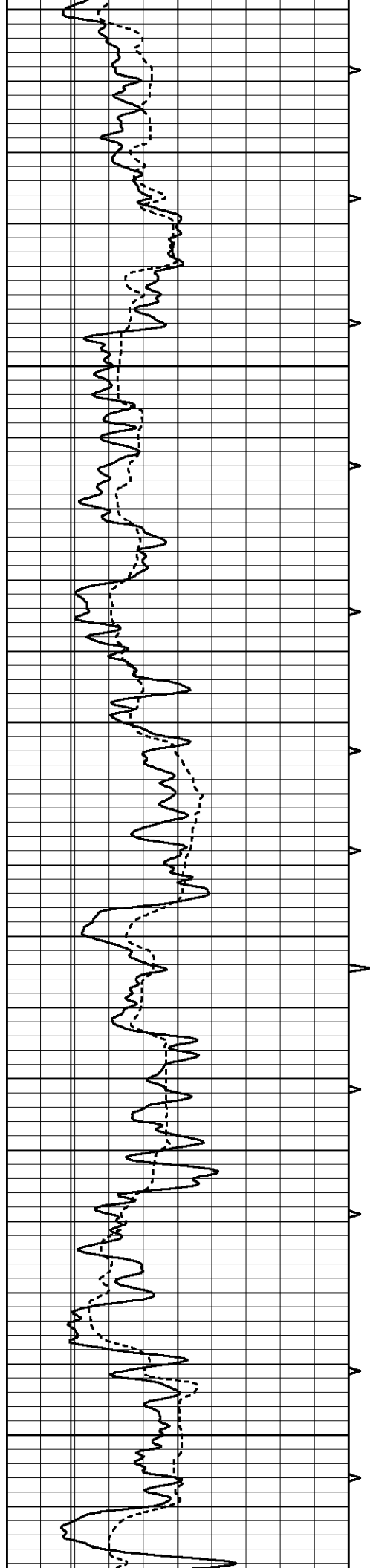
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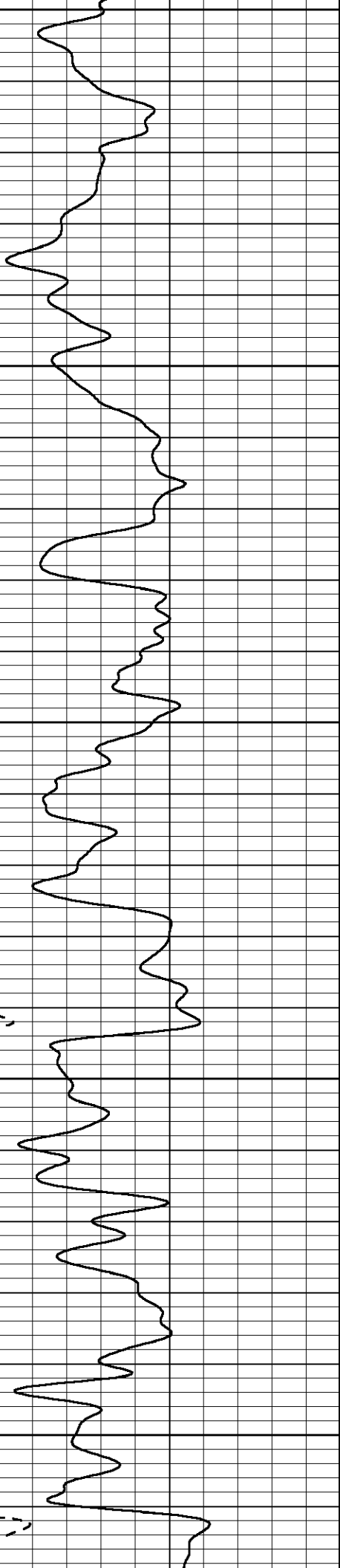
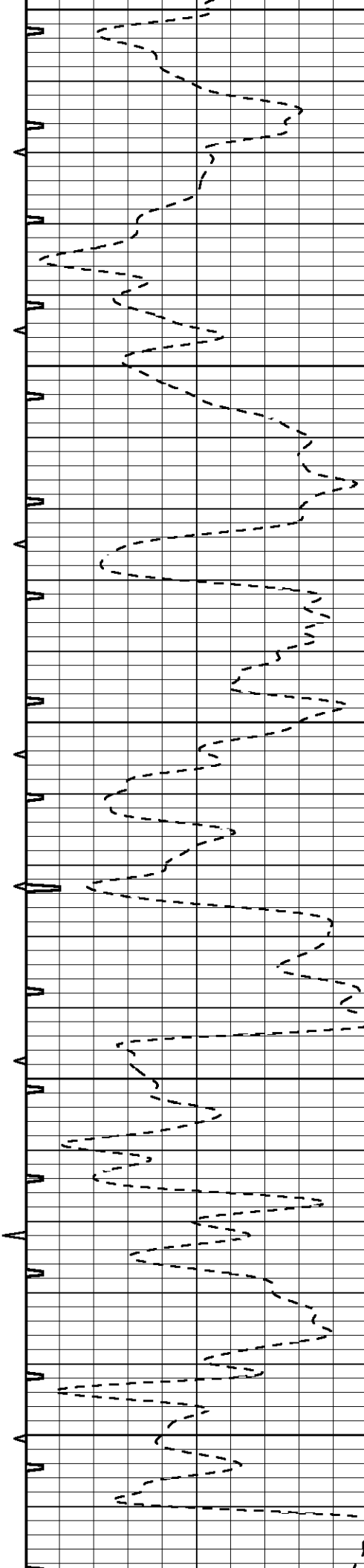
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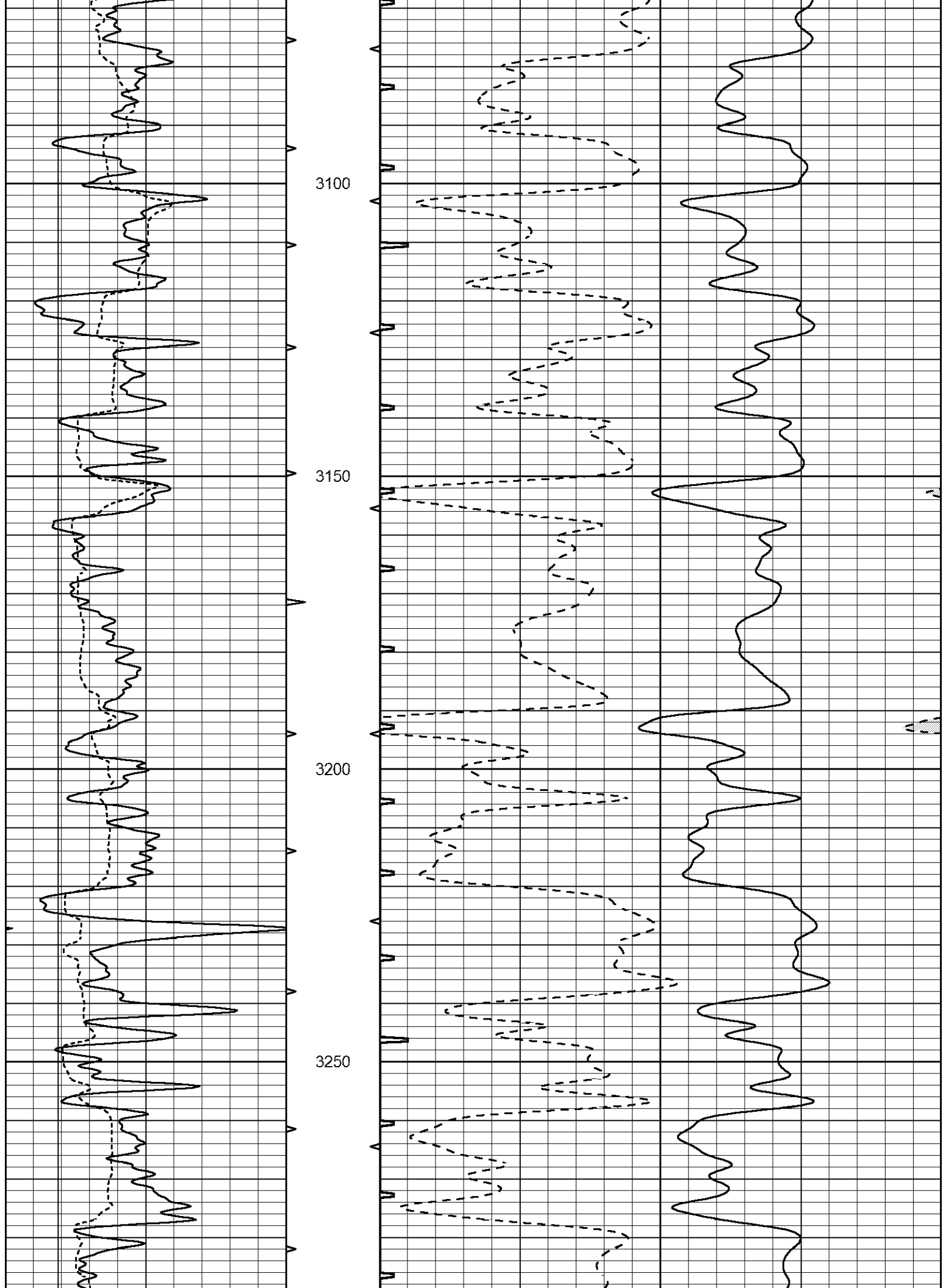
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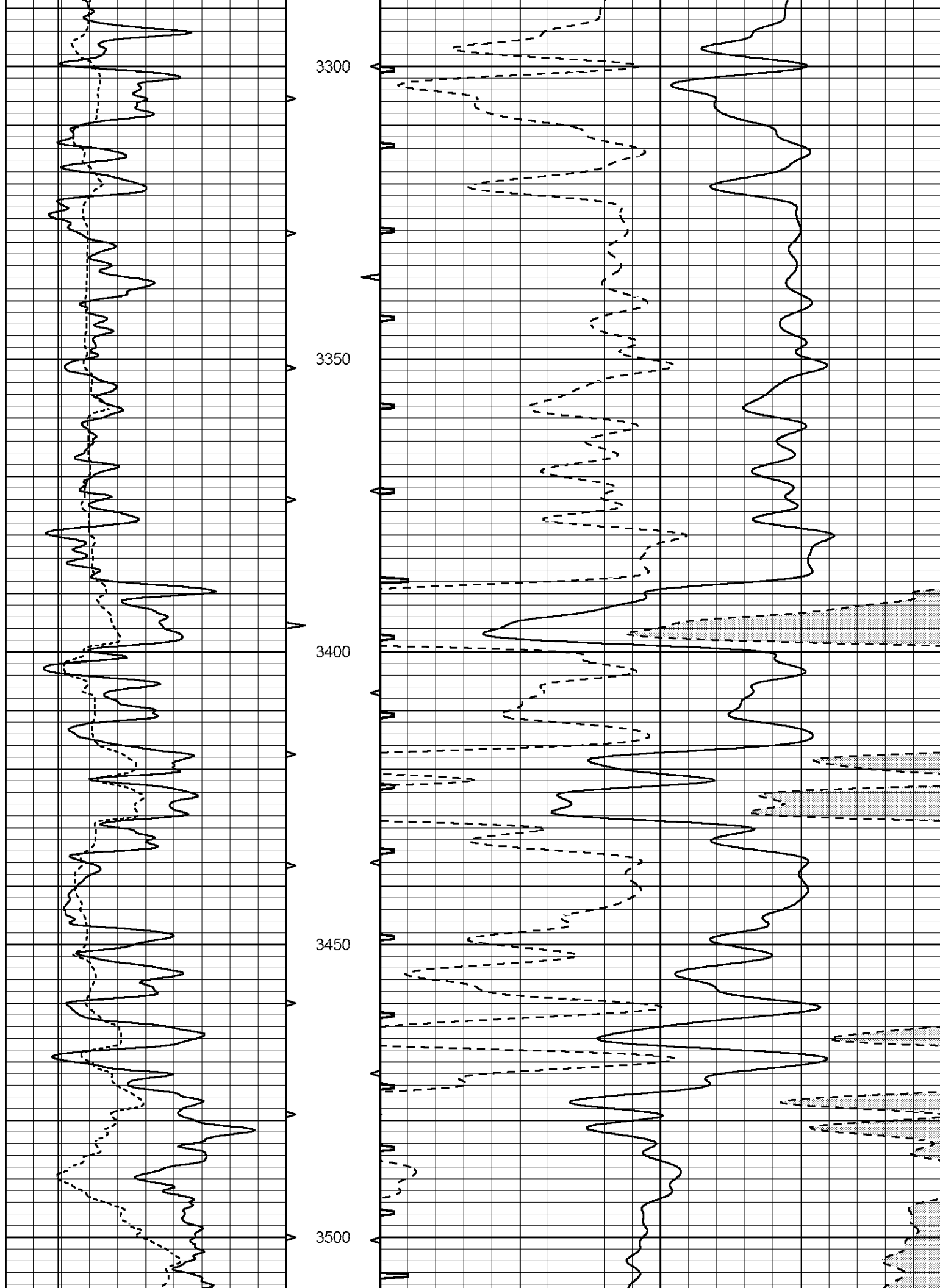
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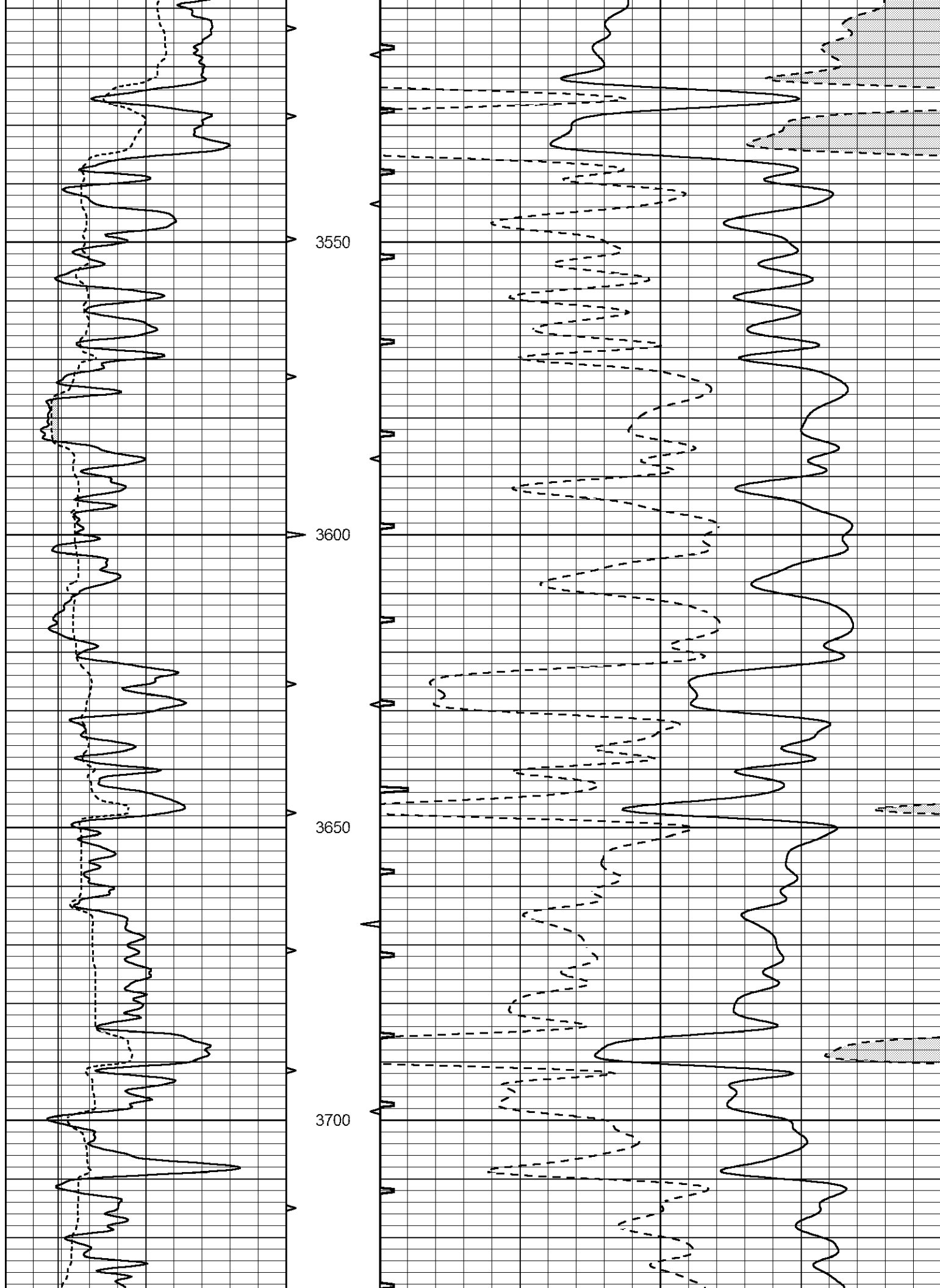
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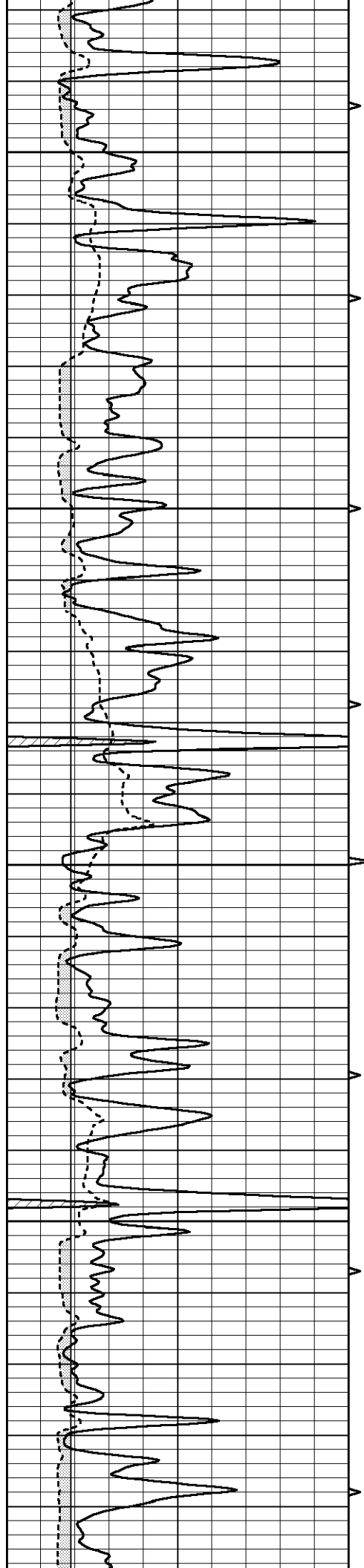
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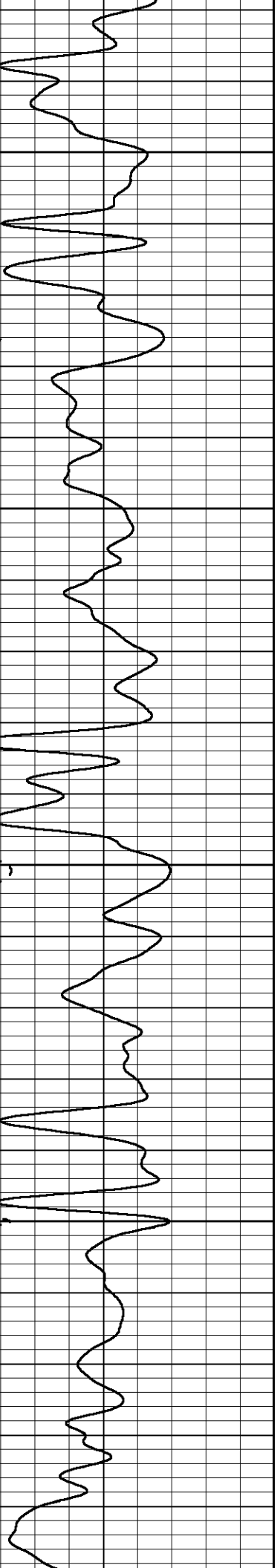
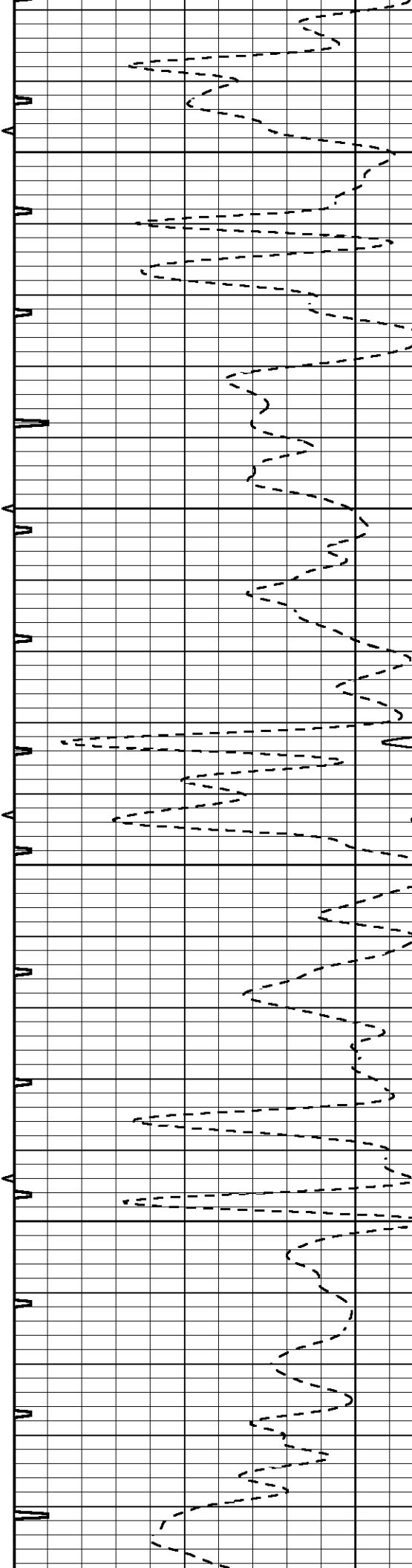


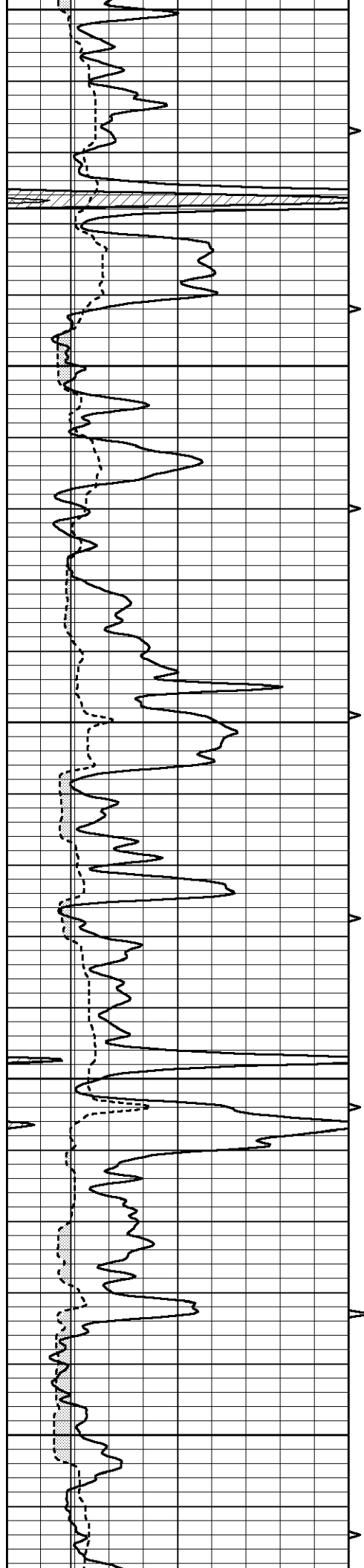
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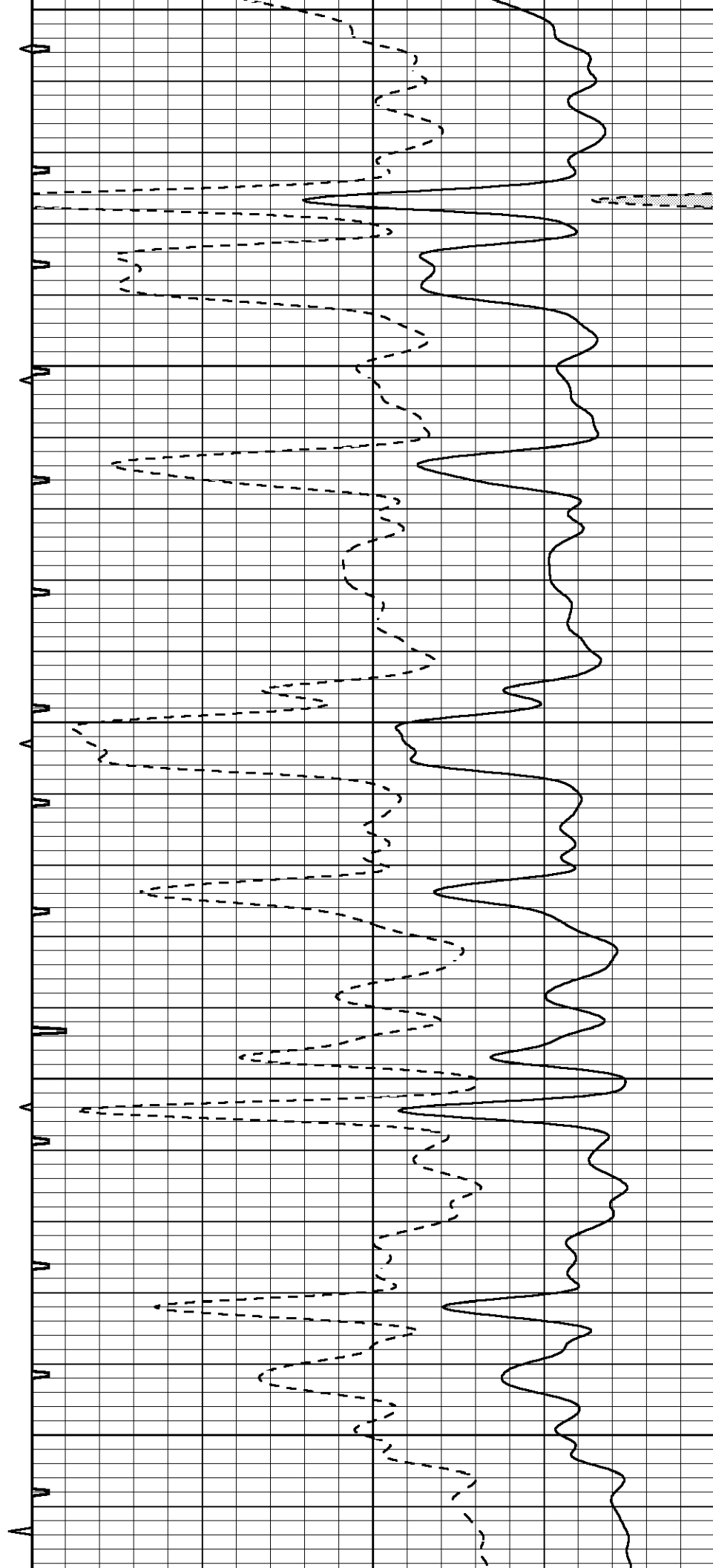
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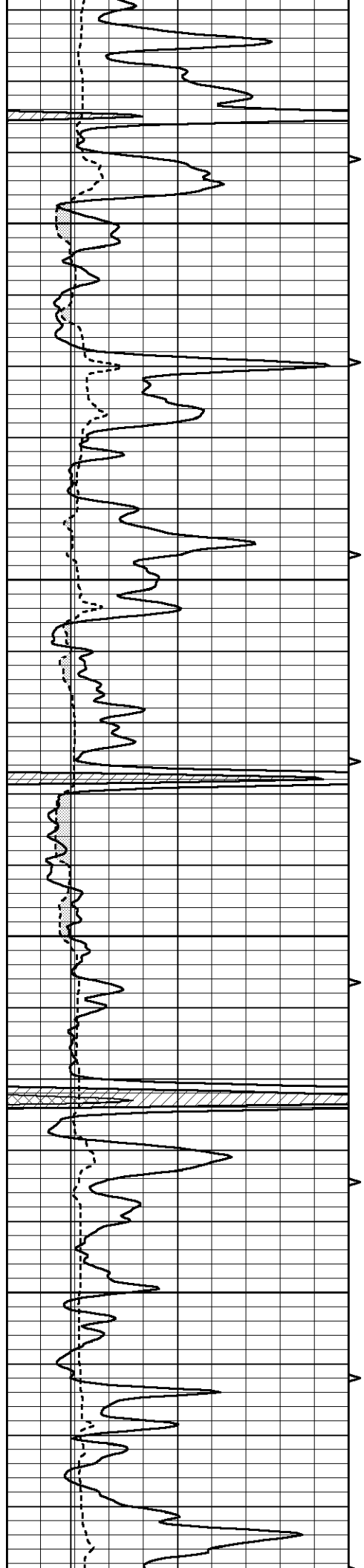
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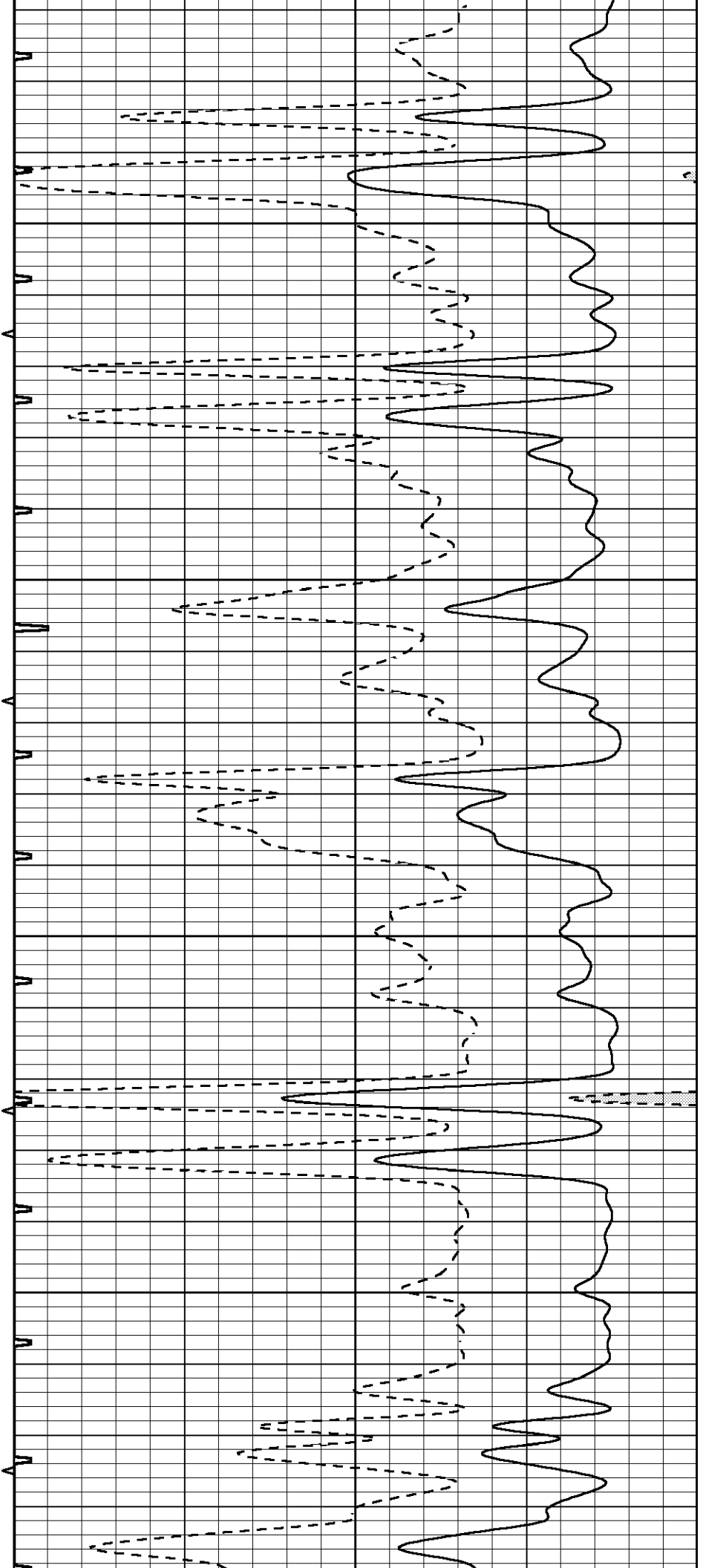


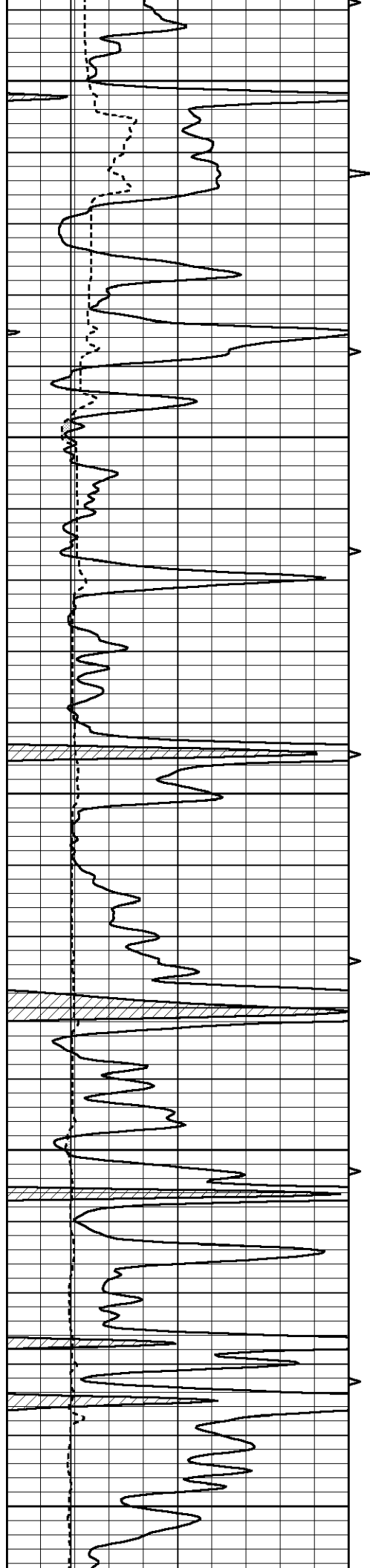
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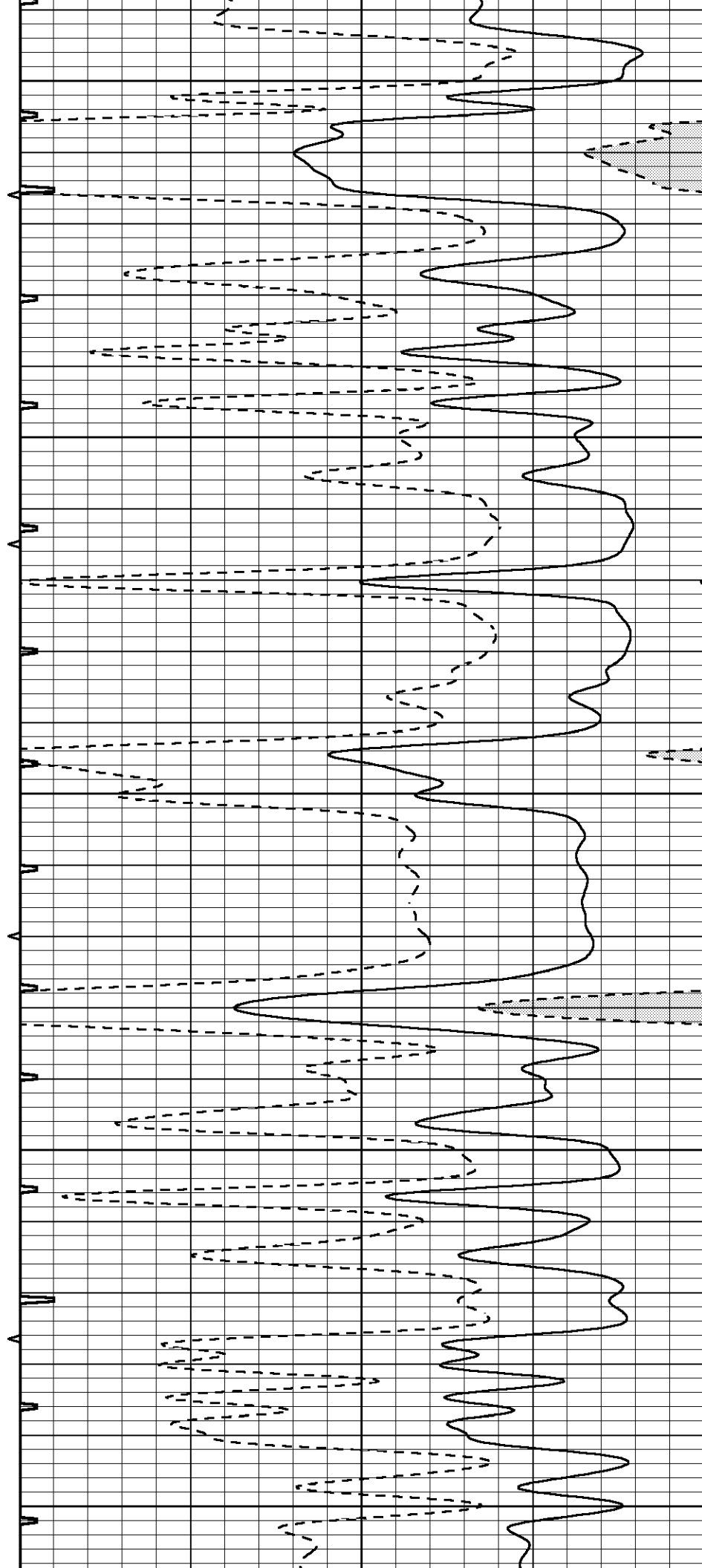
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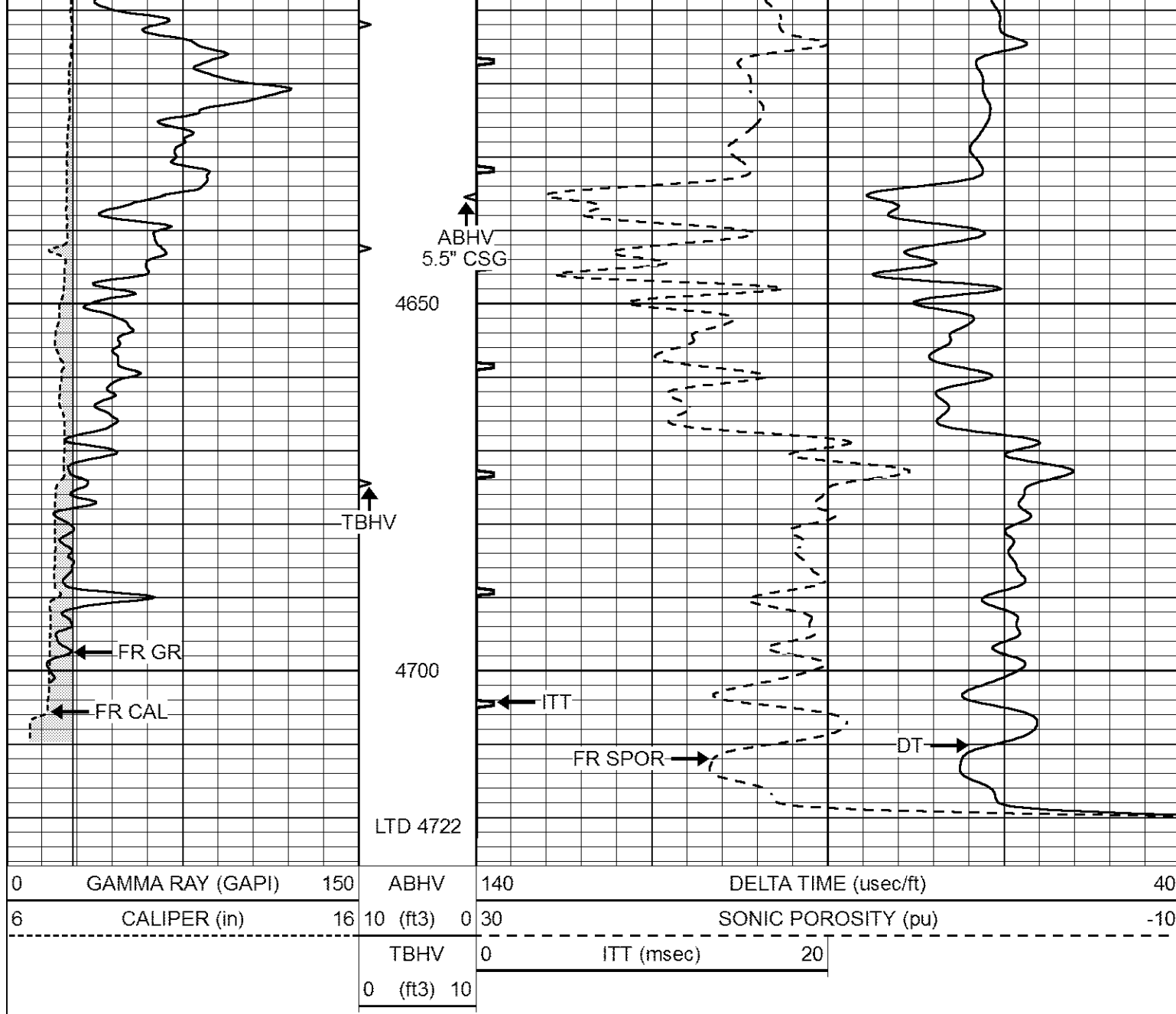
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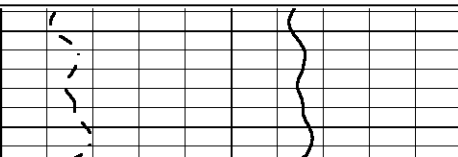
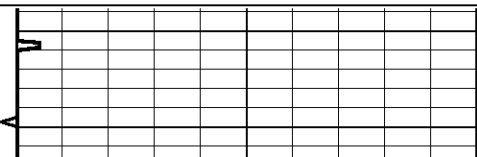
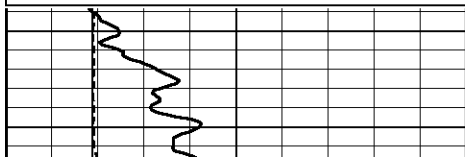


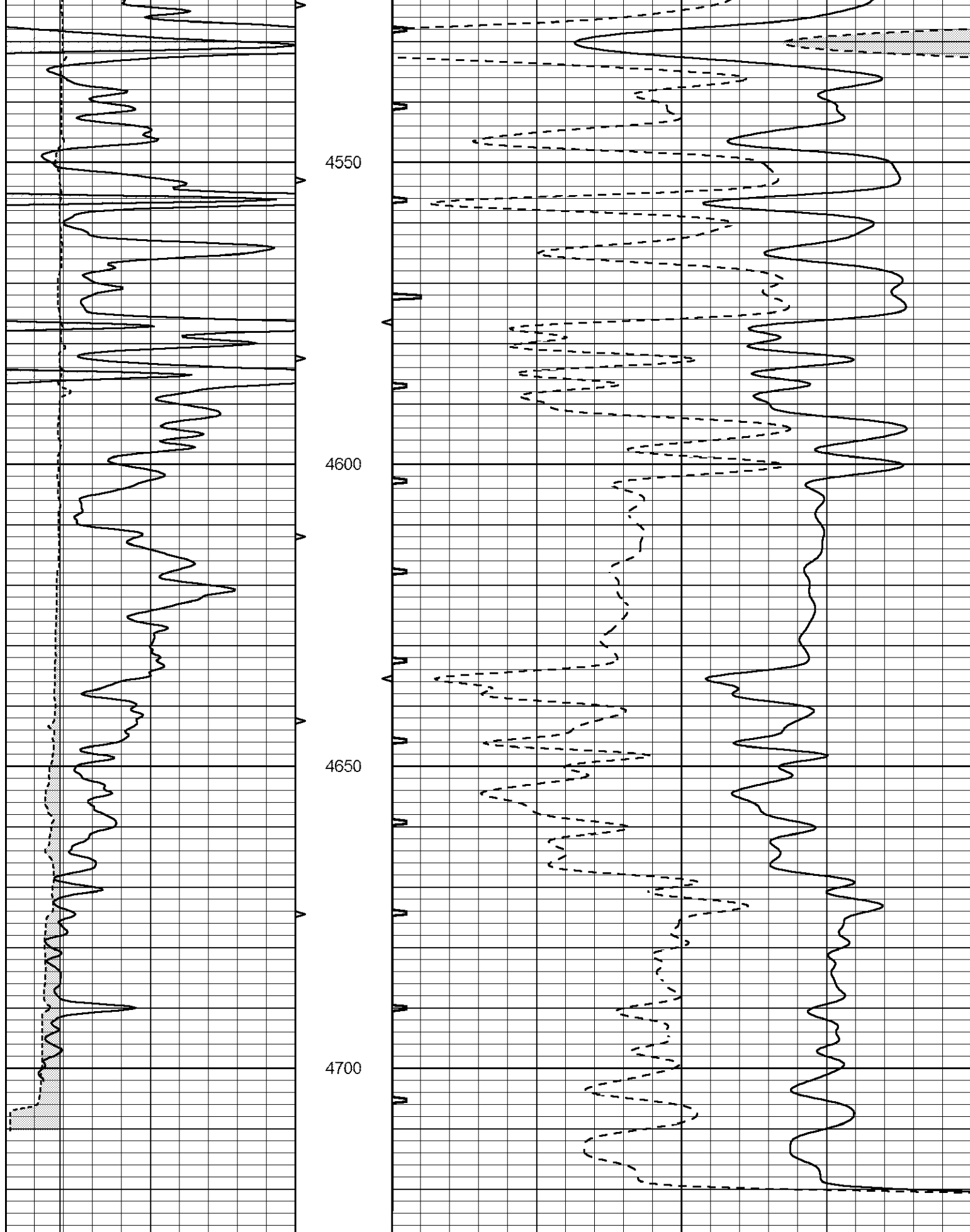


REPEAT SECTION

Database File 1121ddn8.db
 Dataset Pathname pass6.1
 Presentation Format _slt
 Dataset Creation Thu Feb 23 12:06:48 2017
 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
			TBHV	0	ITT (msec)	20
			0 (ft3) 10			





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

0 (ft3) 10
