

MICRO LOG

Company	GRA EX, LLC.	
Well	LUCAS #2	
Field	MACKSVILLE	
County	STAFFORD	
State	KANSAS	
Location:	AP1 # : 15-185-24018-00-00 660 FNL & 1650 FEL	
SEC 4	TWP 24S	RGE 15W
Permanent Datum	GROUND LEVEL	Elevation
Log Measured From	KELLY BUSHING 6' A.G.L.	2018
Drilling Measured From	KELLY BUSHING	Elevation
		K.B. 2024
		D.F. 2022
		G.L. 2018
Date	07/18/18	
Run Number	TWO	
Depth Driller	4150	
Depth Logger	4146	
Bottom Logged Interval	4126	
Top Log Interval	1800	
Casing Driller	8 5/8@ 257	
Casing Logger	257	
Bit Size	7 7/8"	
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 12500 PPM
Density / Viscosity	8.9/58	
pH / Fluid Loss	10.5/10.0	
Source of Sample	FLOWLINE	
Rm @ Meas. Temp	.7@86	
Rmt @ Meas. Temp	.53@86	
Rmc @ Meas. Temp	.84@86	
Source of Rmt / Rmc	MEASURED	
Rm @ BHT	.51@117	
Time Circulation Stopped	2 HOURS	
Time Logger on Bottom	///	
Maximum Recorded Temperature	117F	
Equipment Number	4010	
Location	HAYS, KANSAS	
Recorded By	GUS PFANENSTIEL	
Witnessed By	ELI FELTS	JEFF BURK

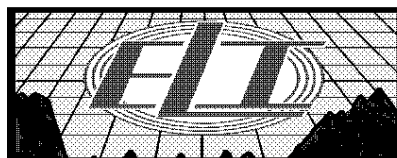
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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on 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

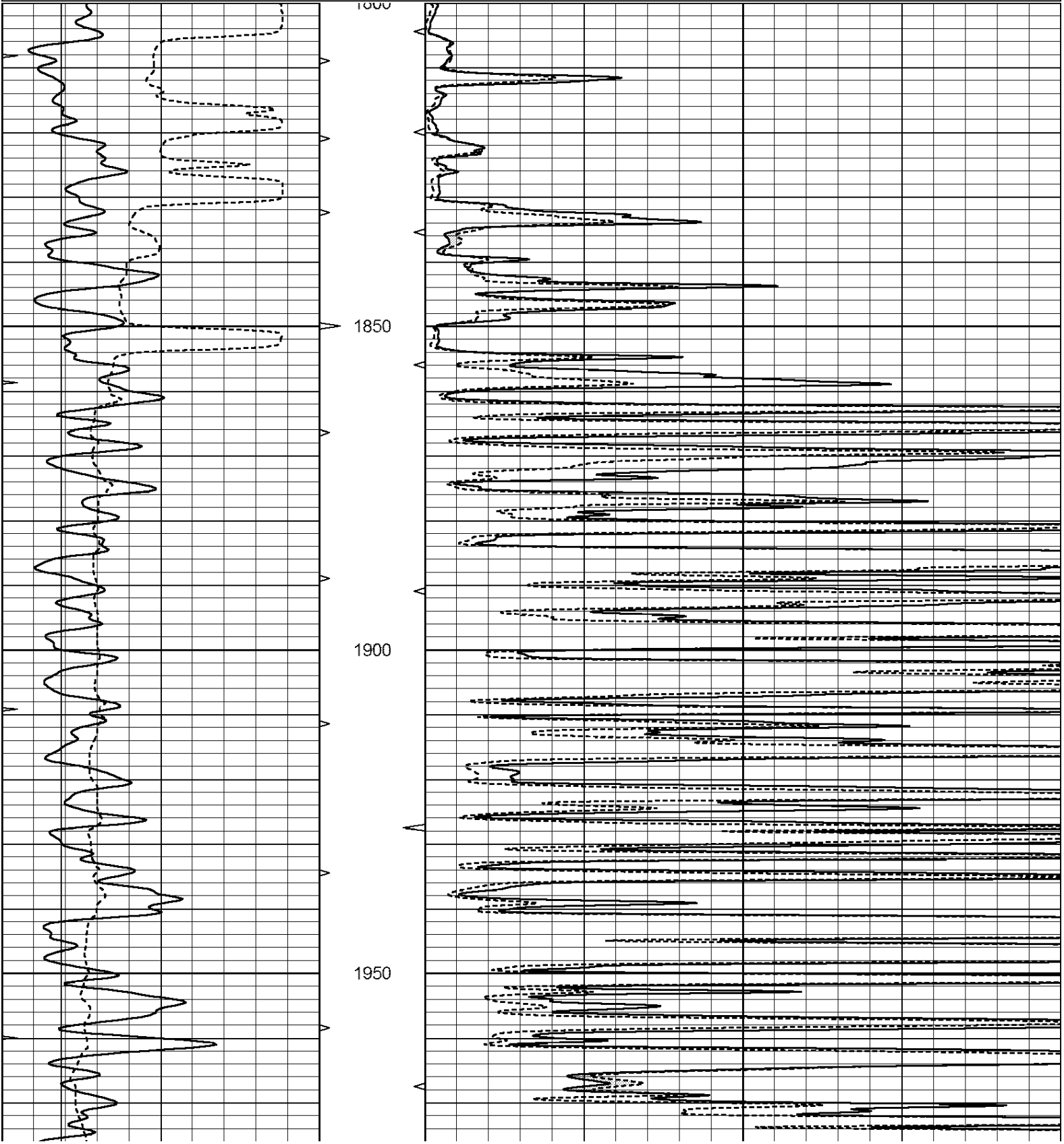
DIRECTIONS
LARNED EAST ON HWY 19 TO 40 TH RD.
GO SOUTH 9 MILES, WEST 1/2 MILE
SOUTH INTO.

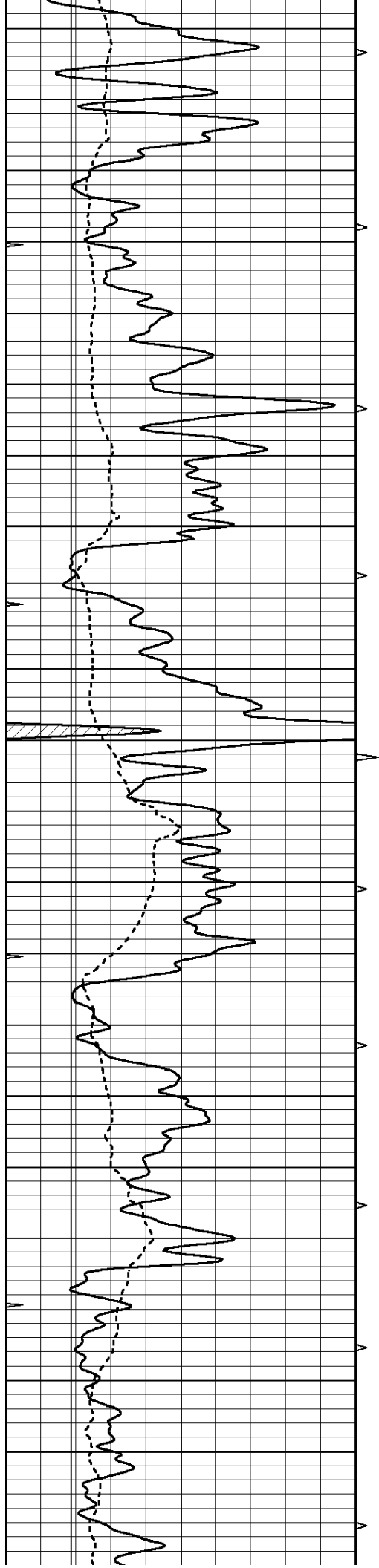


MAIN PASS

Database File: 2693ddn.db
Dataset Pathname: pass5.1
Presentation Format: _micro
Dataset Creation: Wed Jul 18 21:03:46 2018
Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	ABHV	0	MEL1.5 (Ohm-m)	40
6	CALIPER (in)	16	10 (ft3)	0	MEL2.0 (Ohm-m)	40
0	MINMK	20	TBHV			
			0 (ft3)	10		



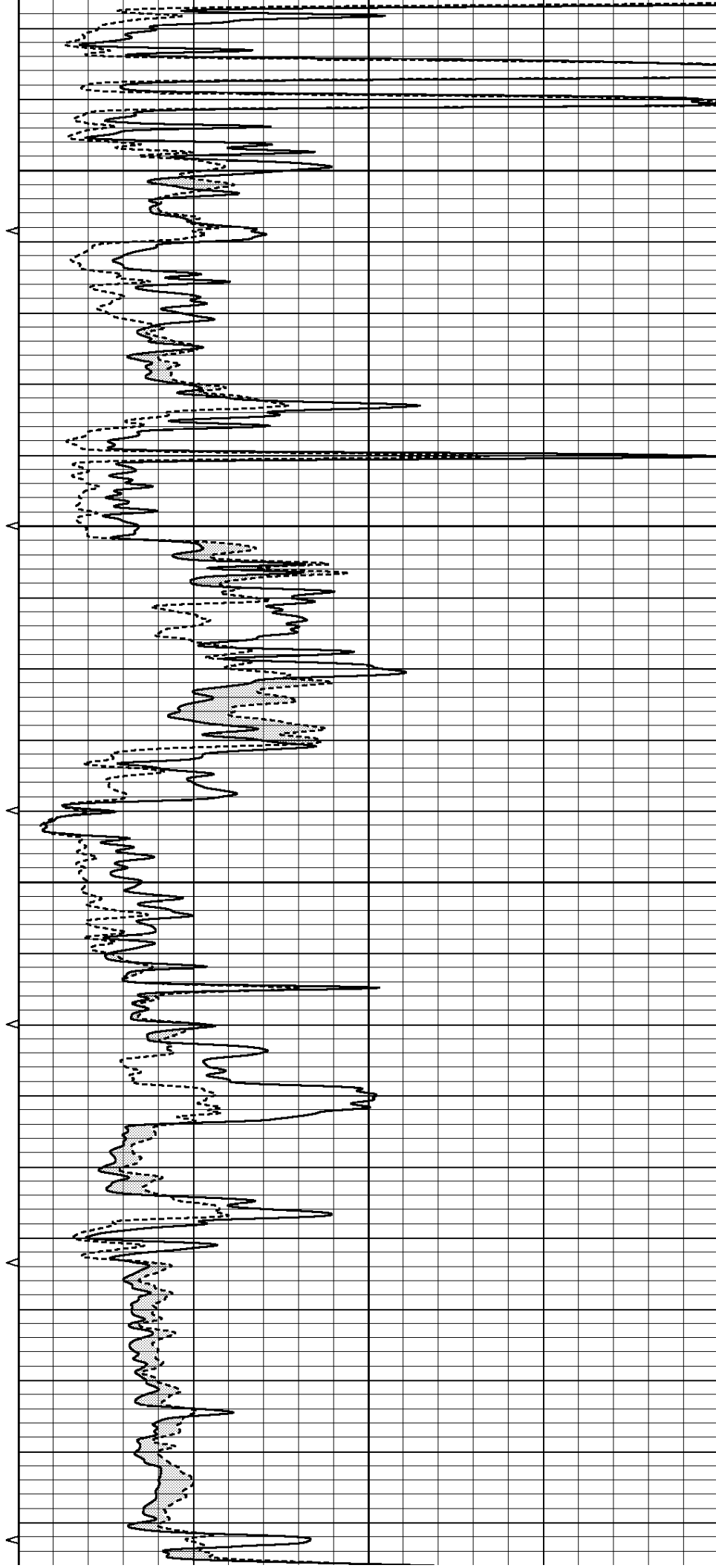


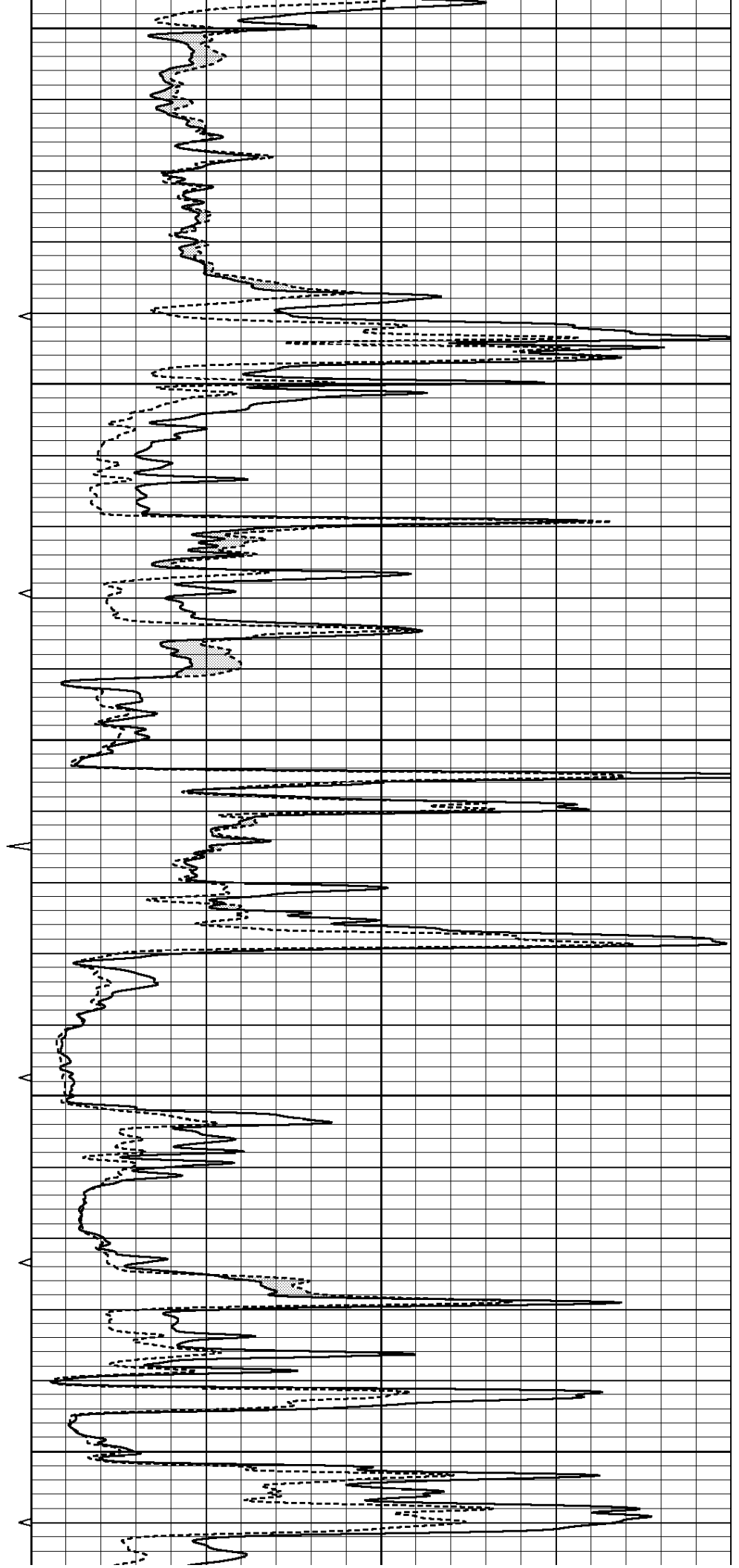
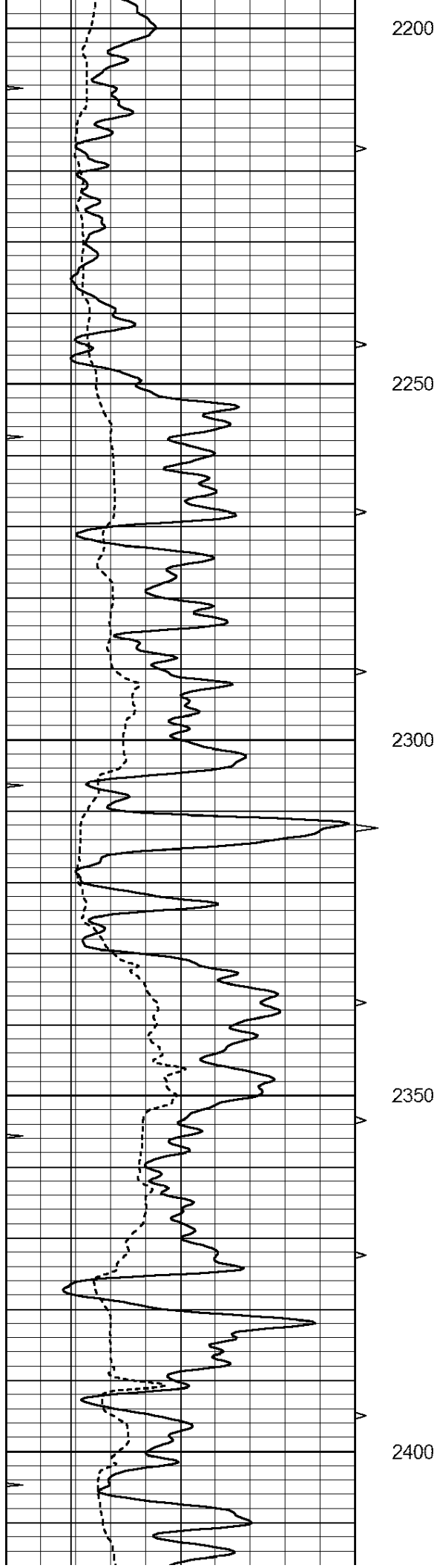
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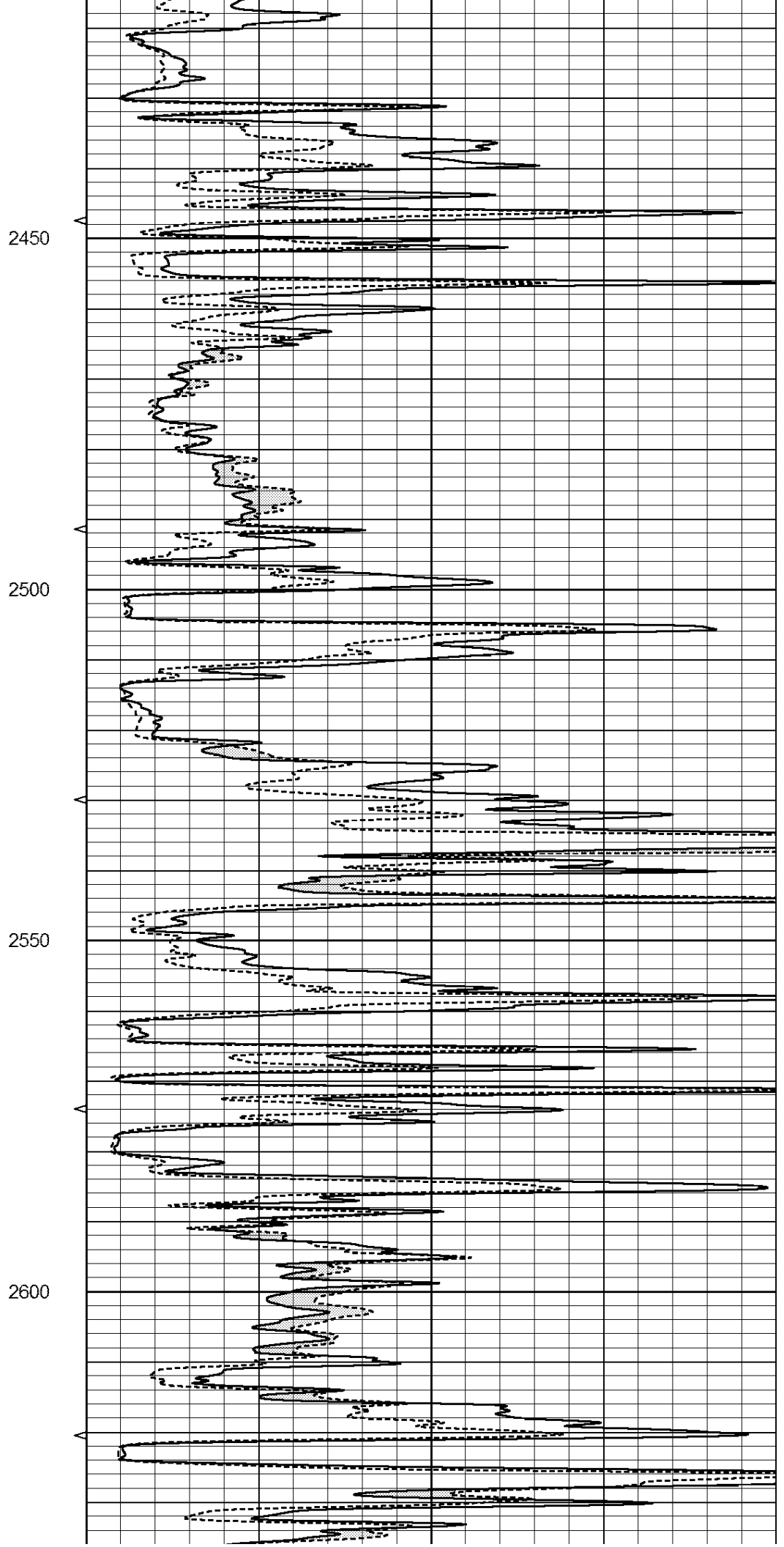
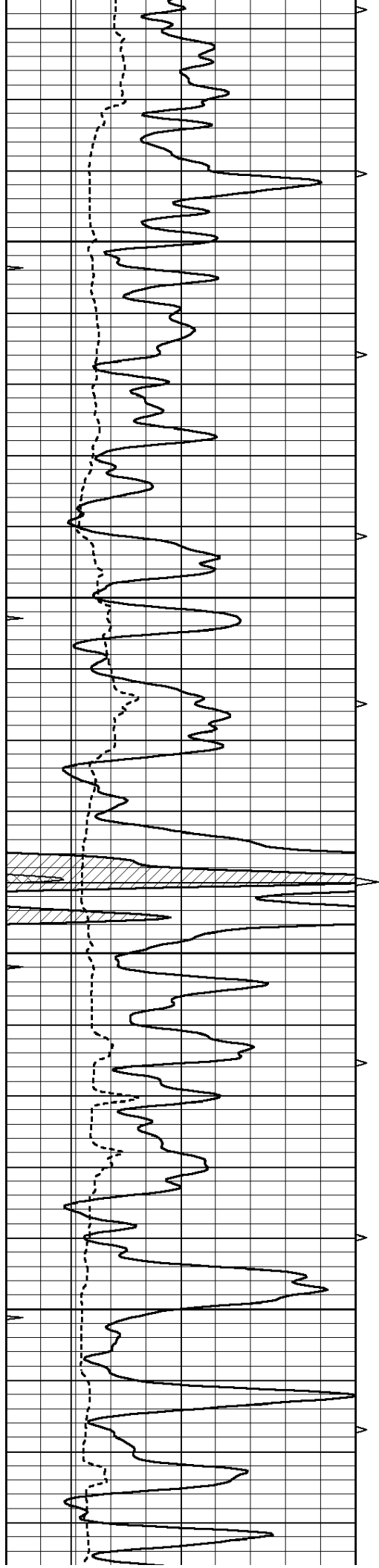
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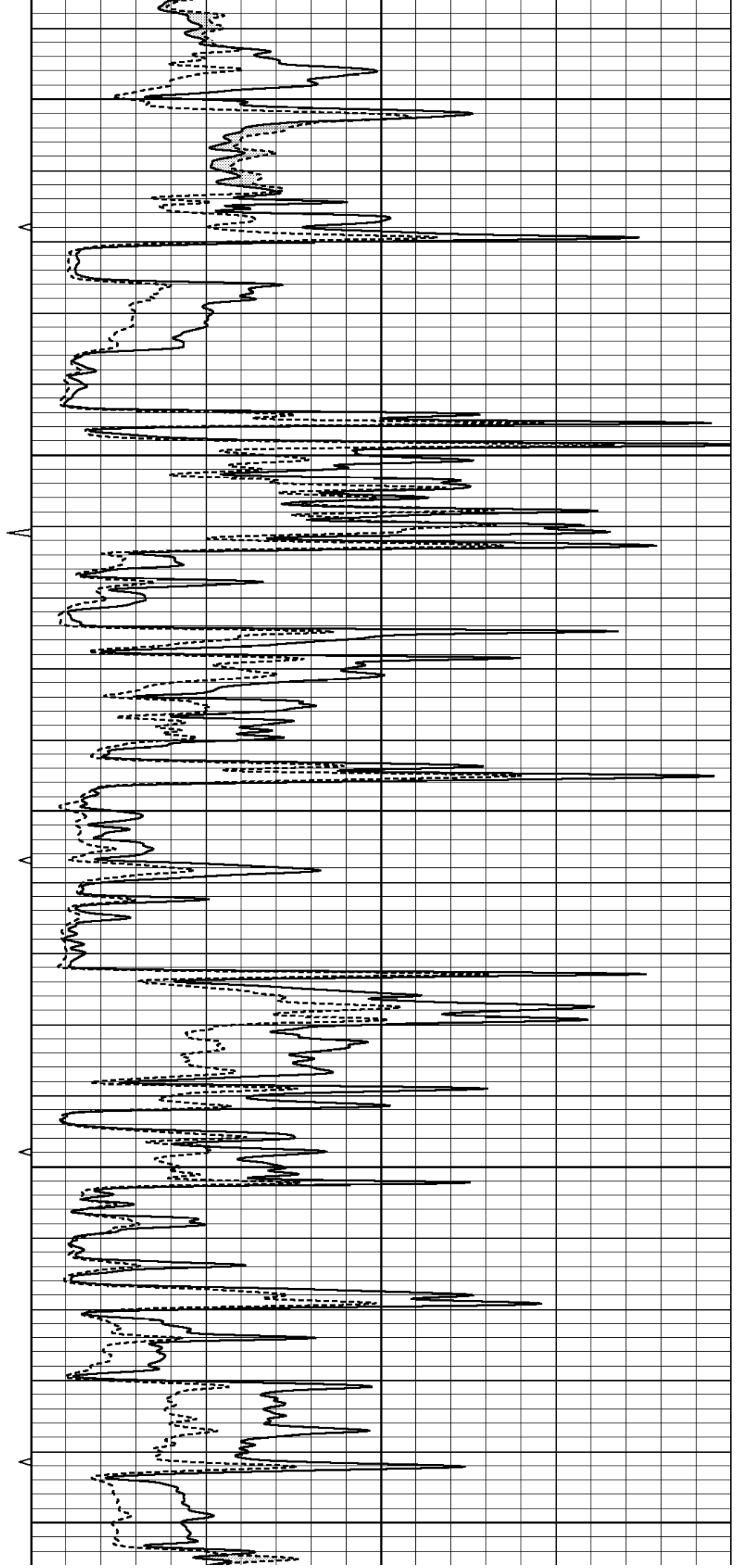
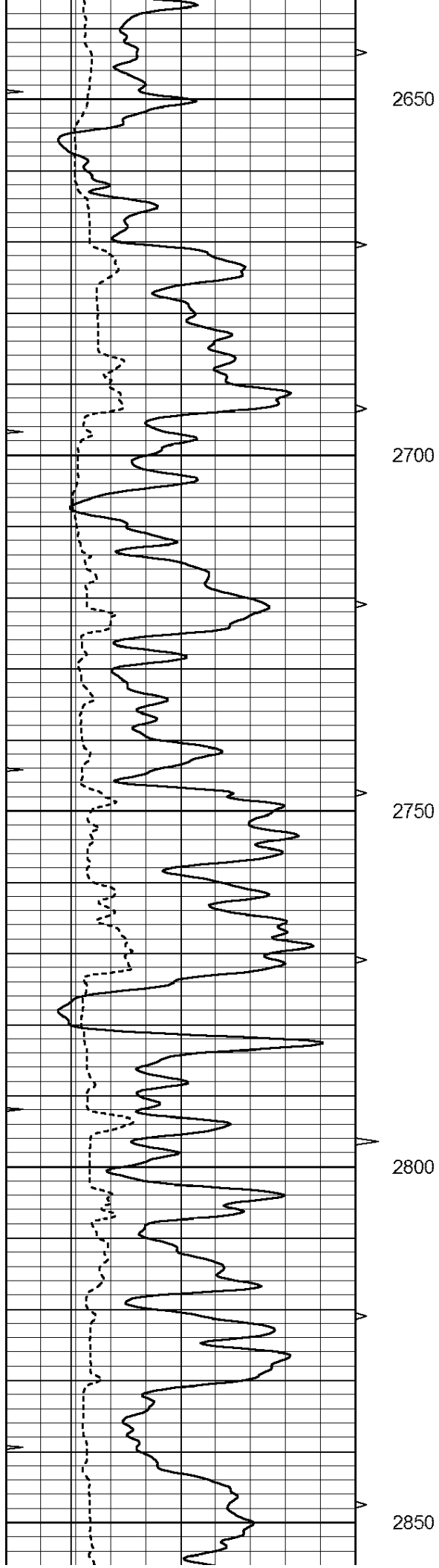
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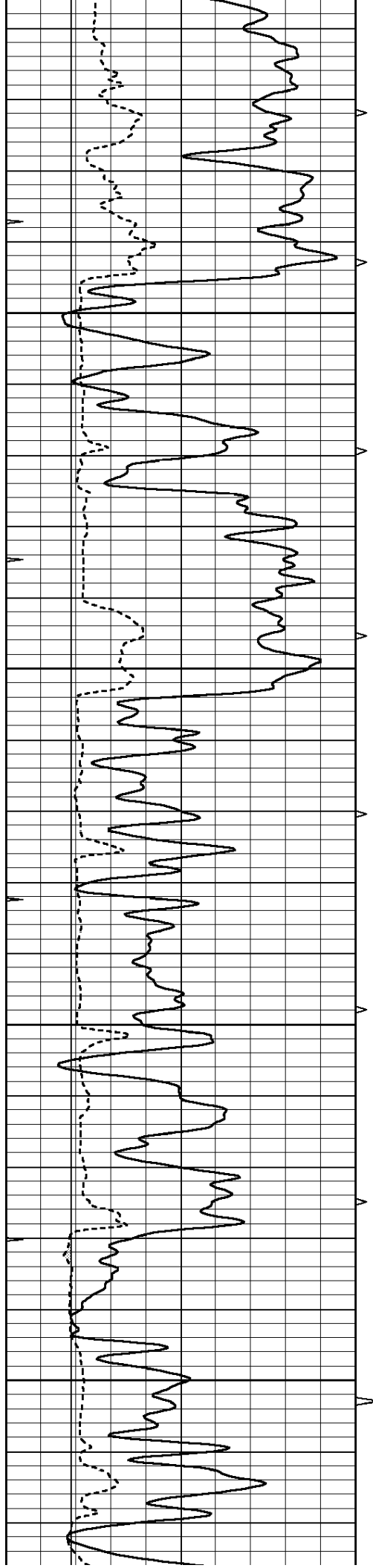
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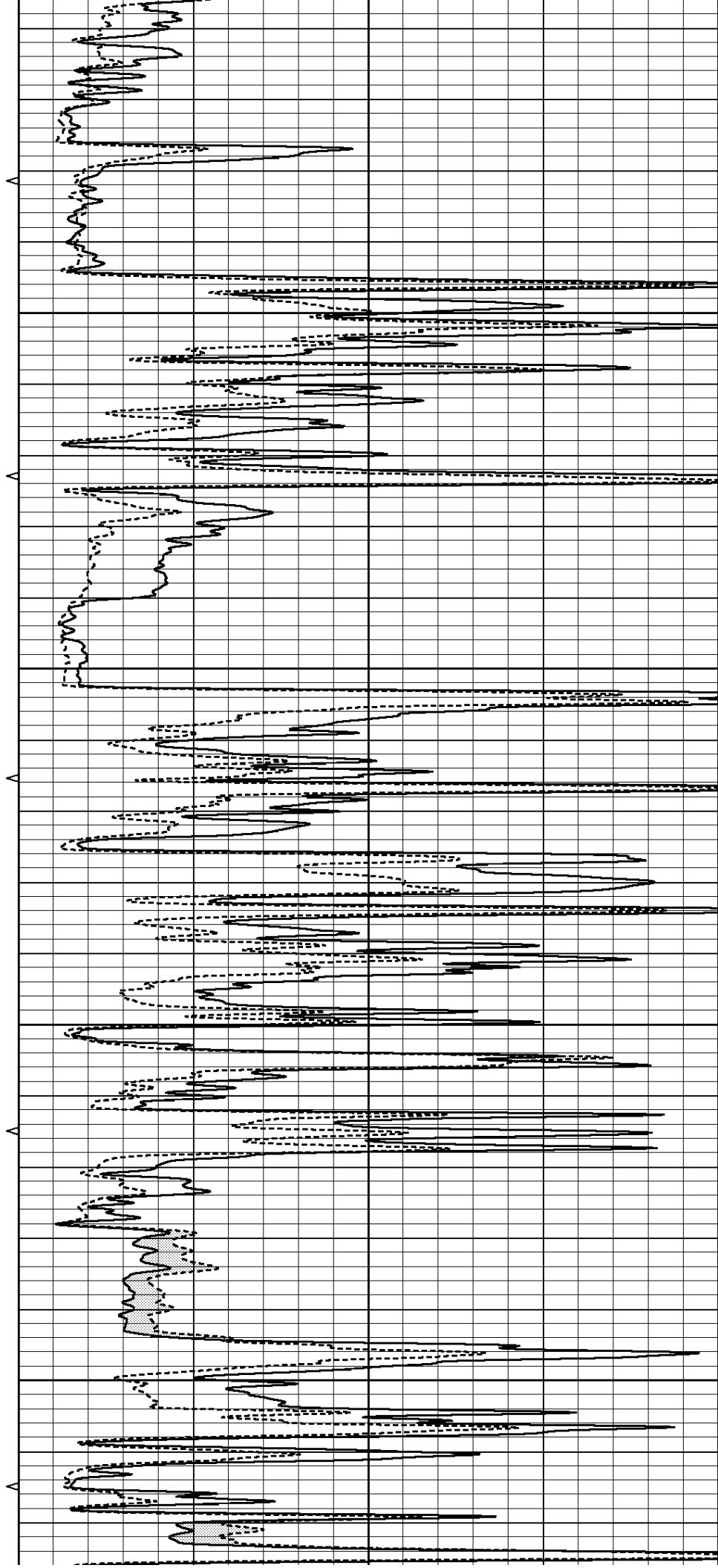


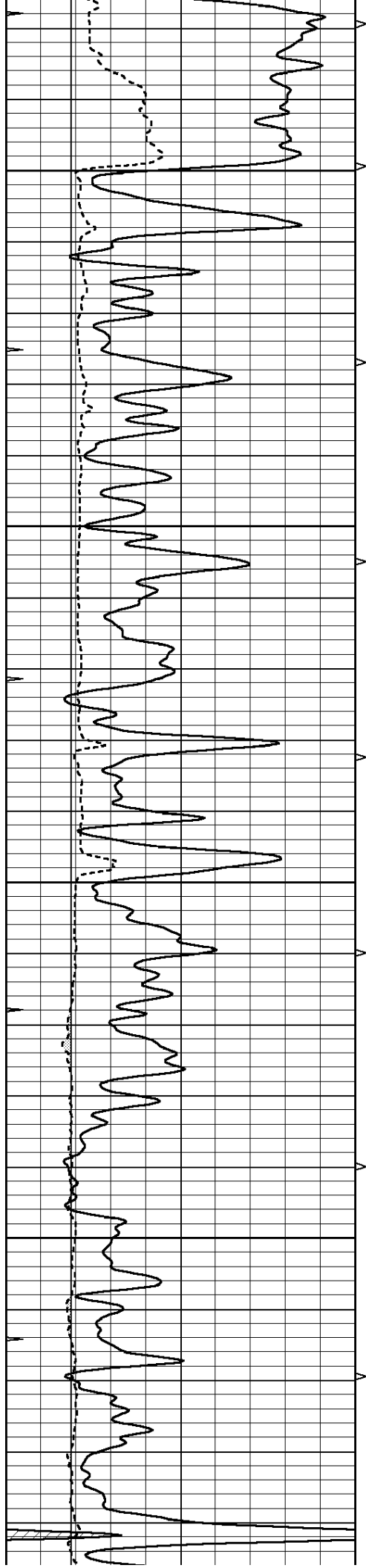
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3050



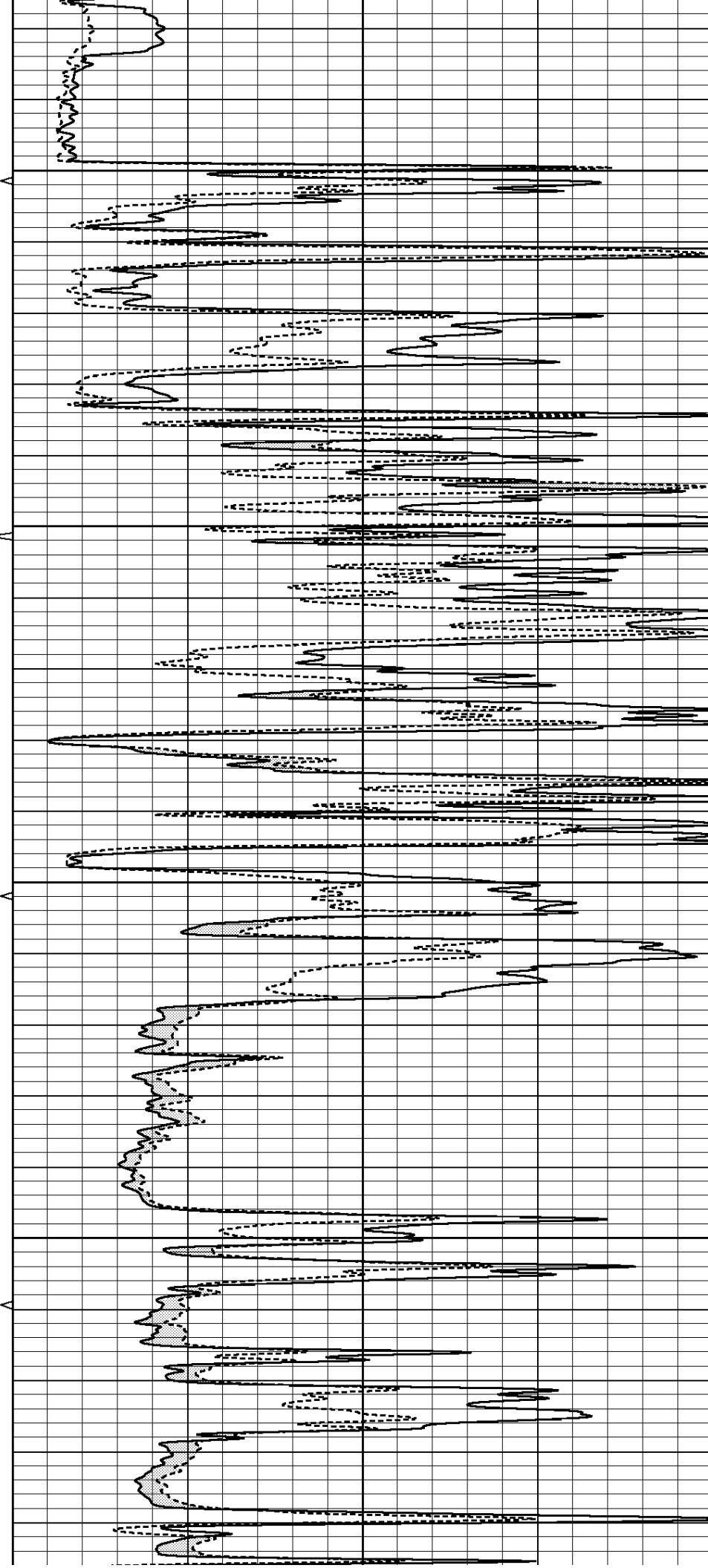


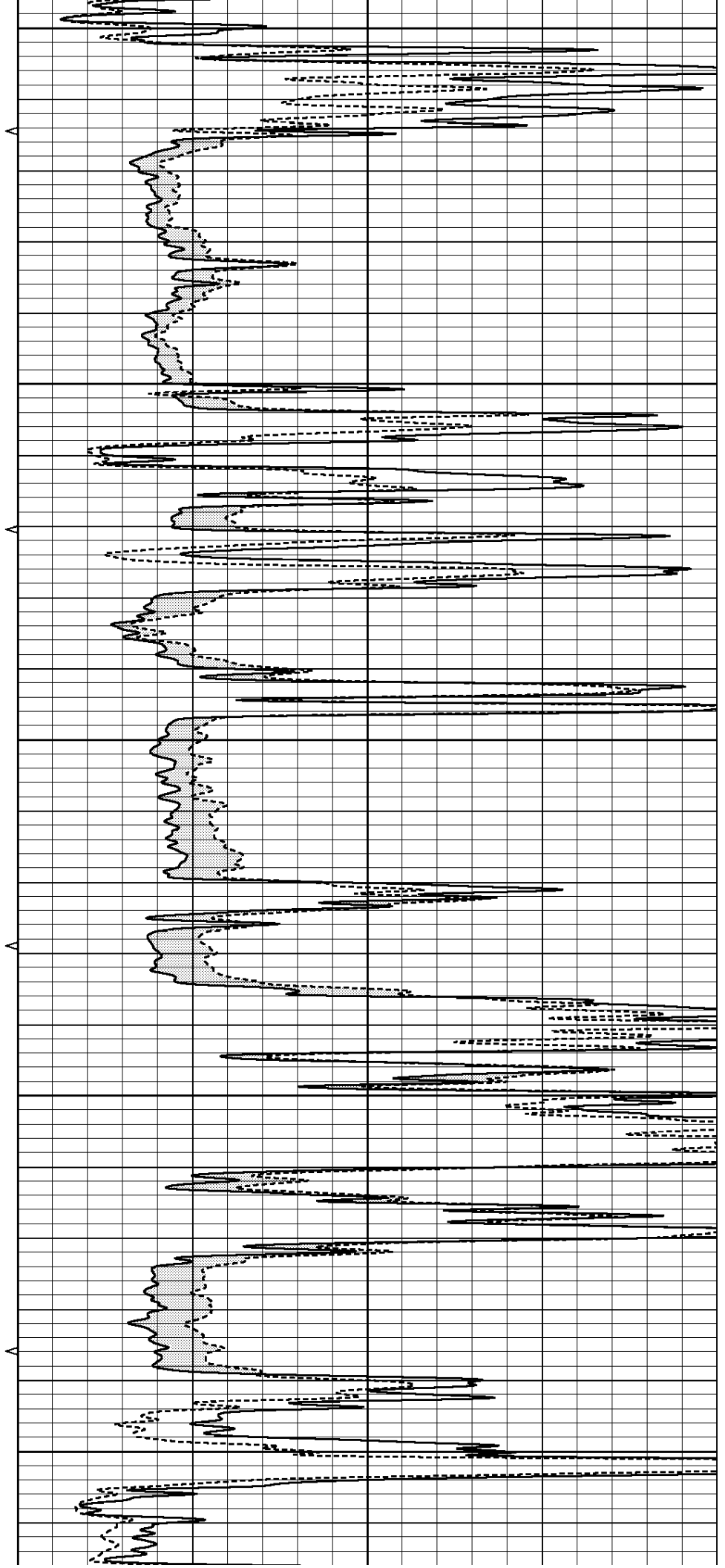
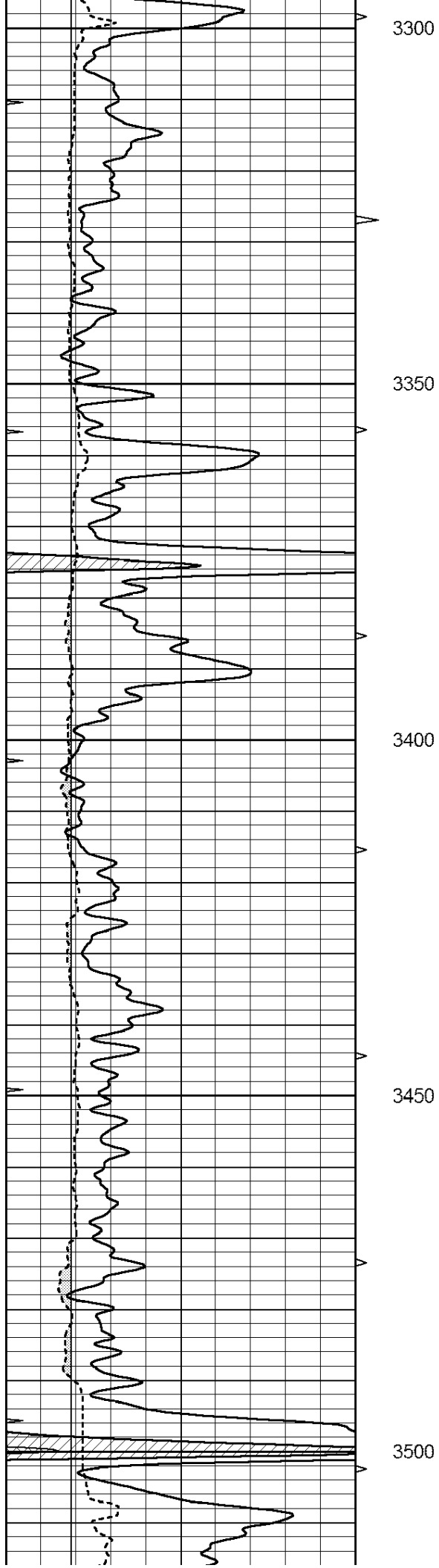
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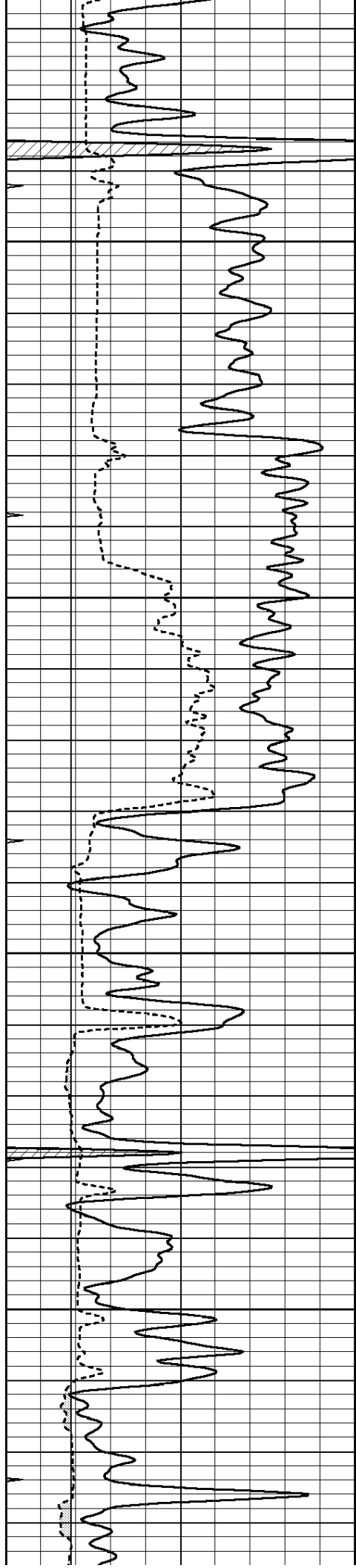
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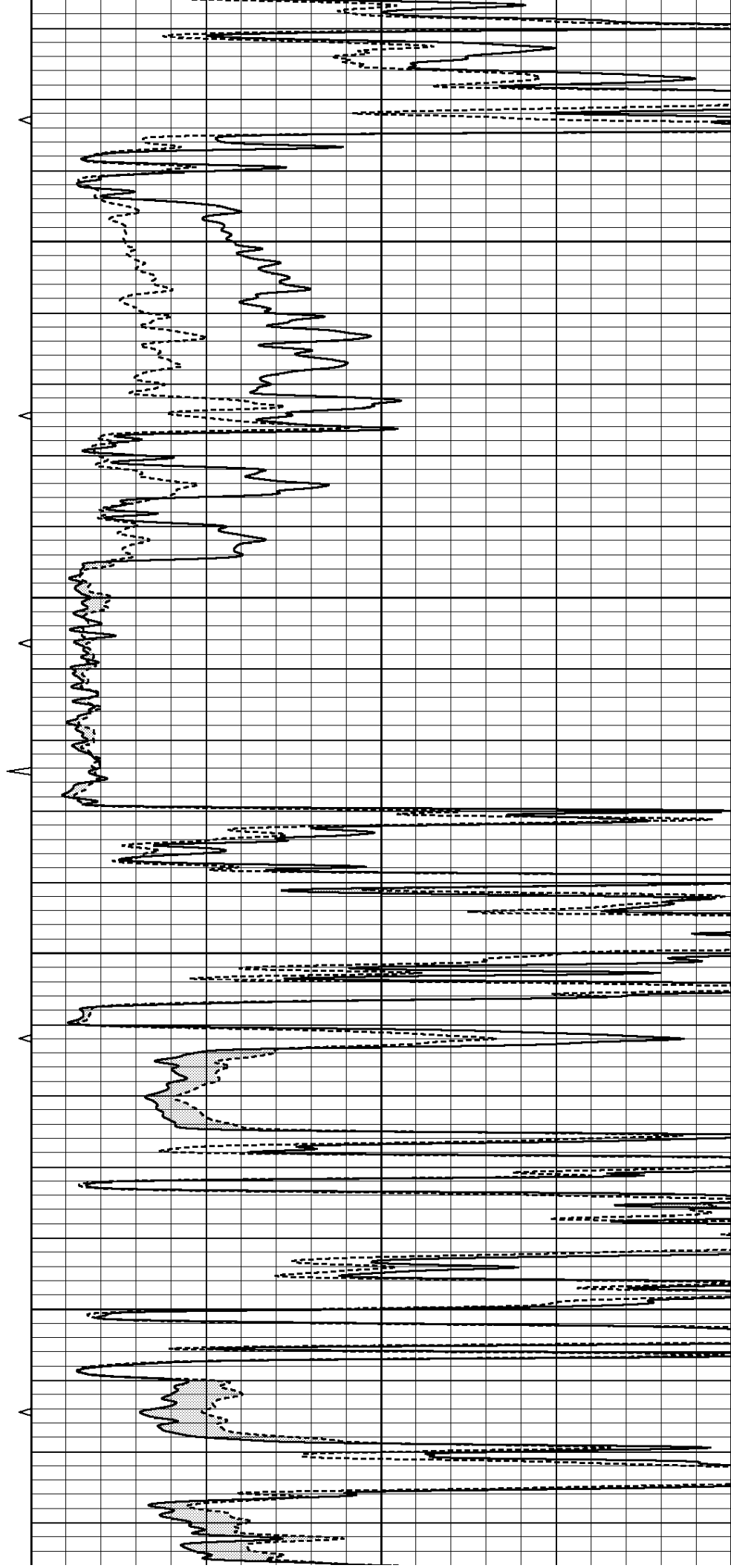


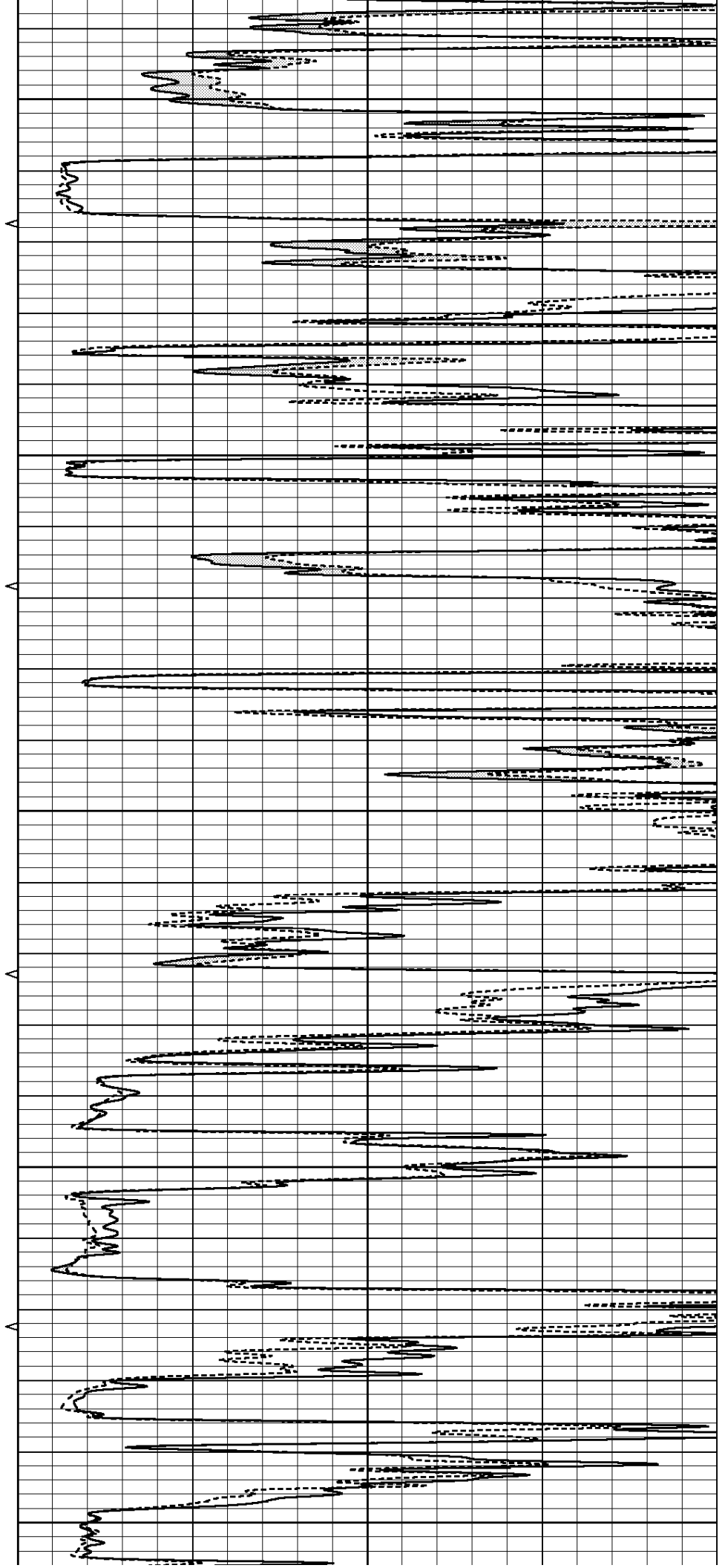
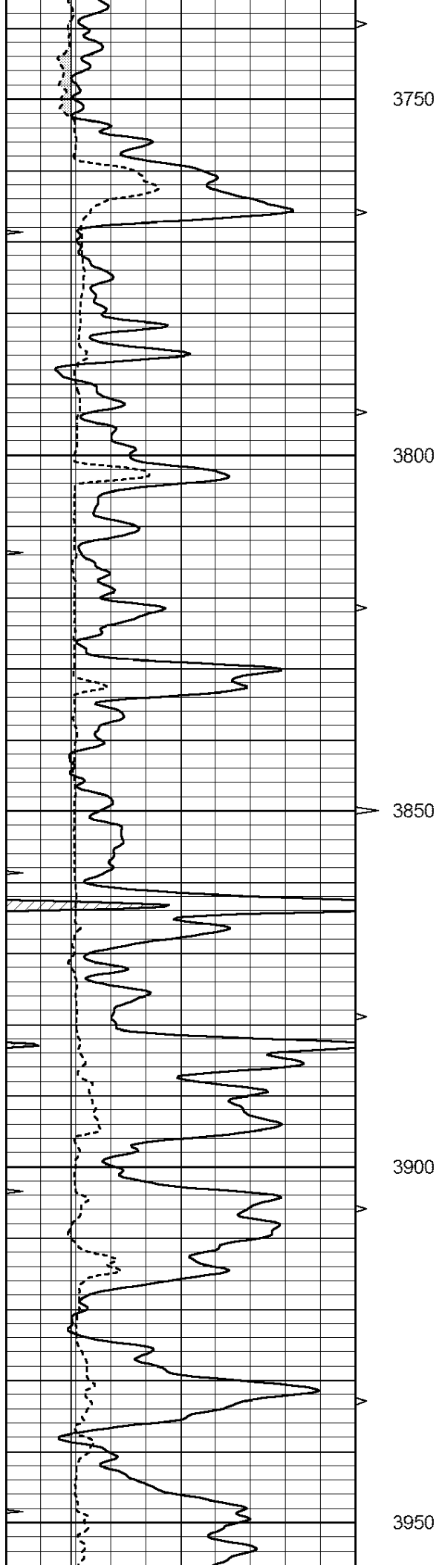
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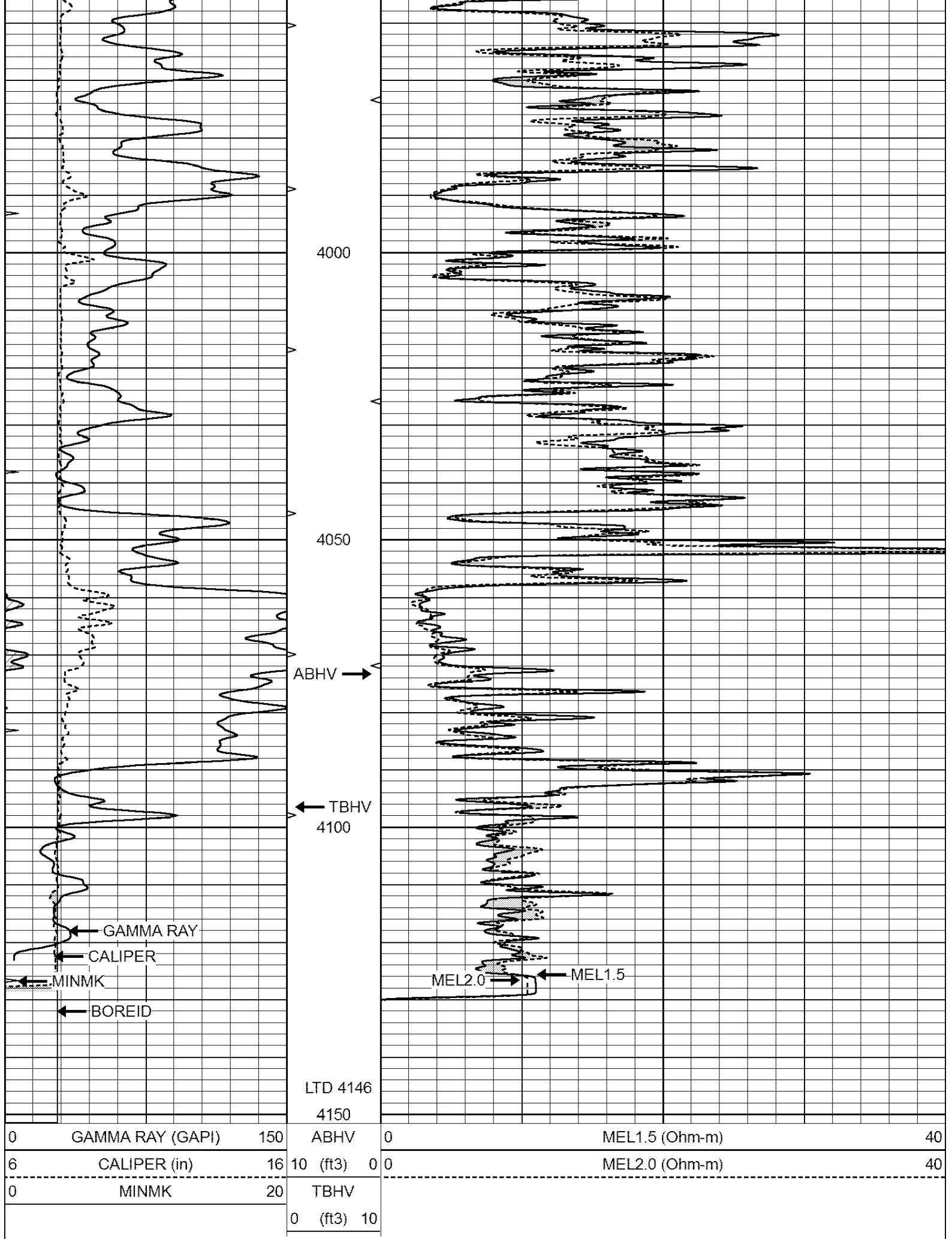
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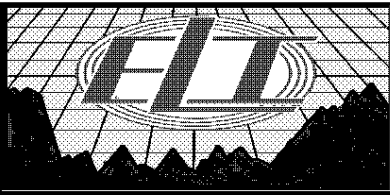
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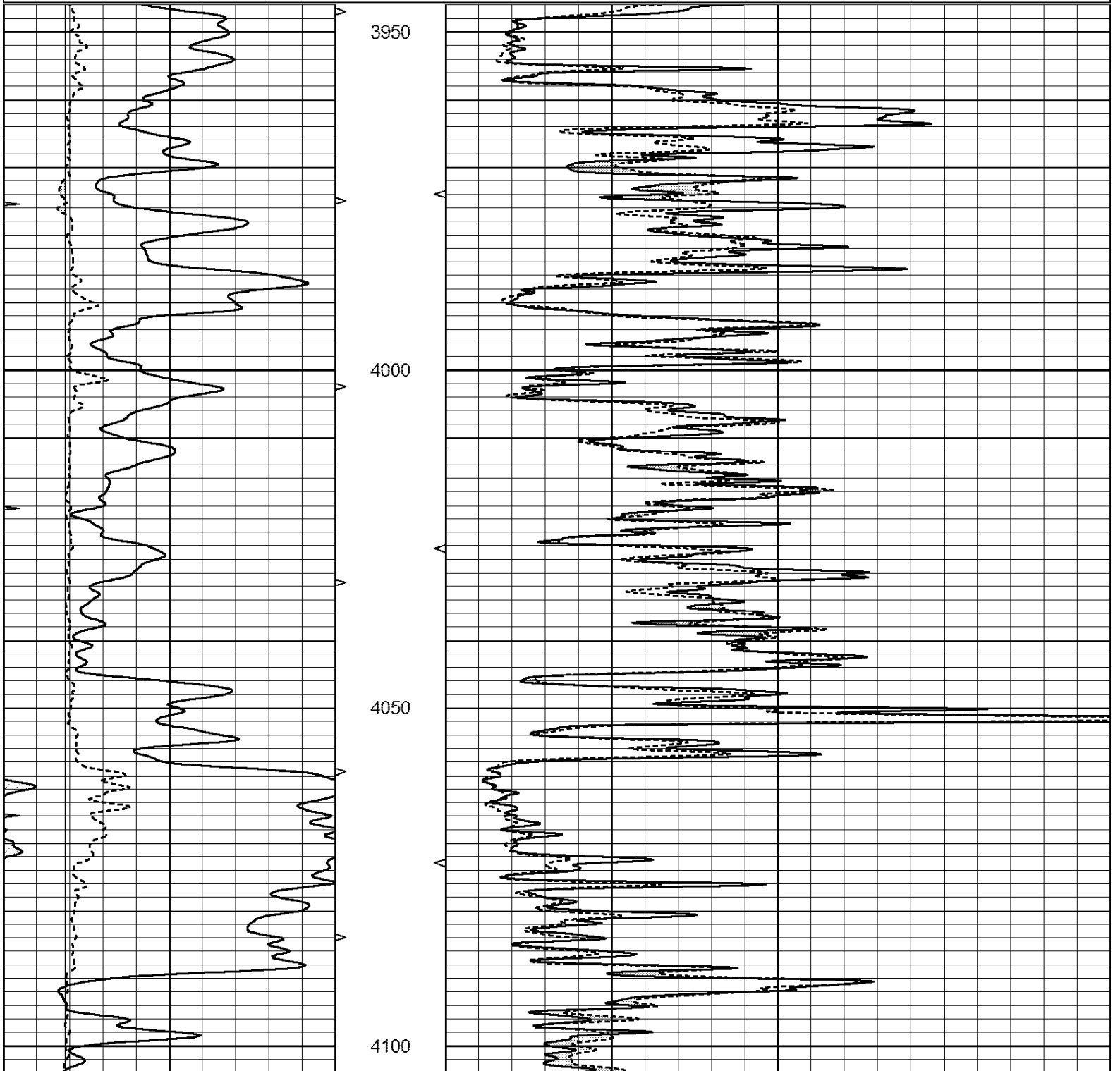


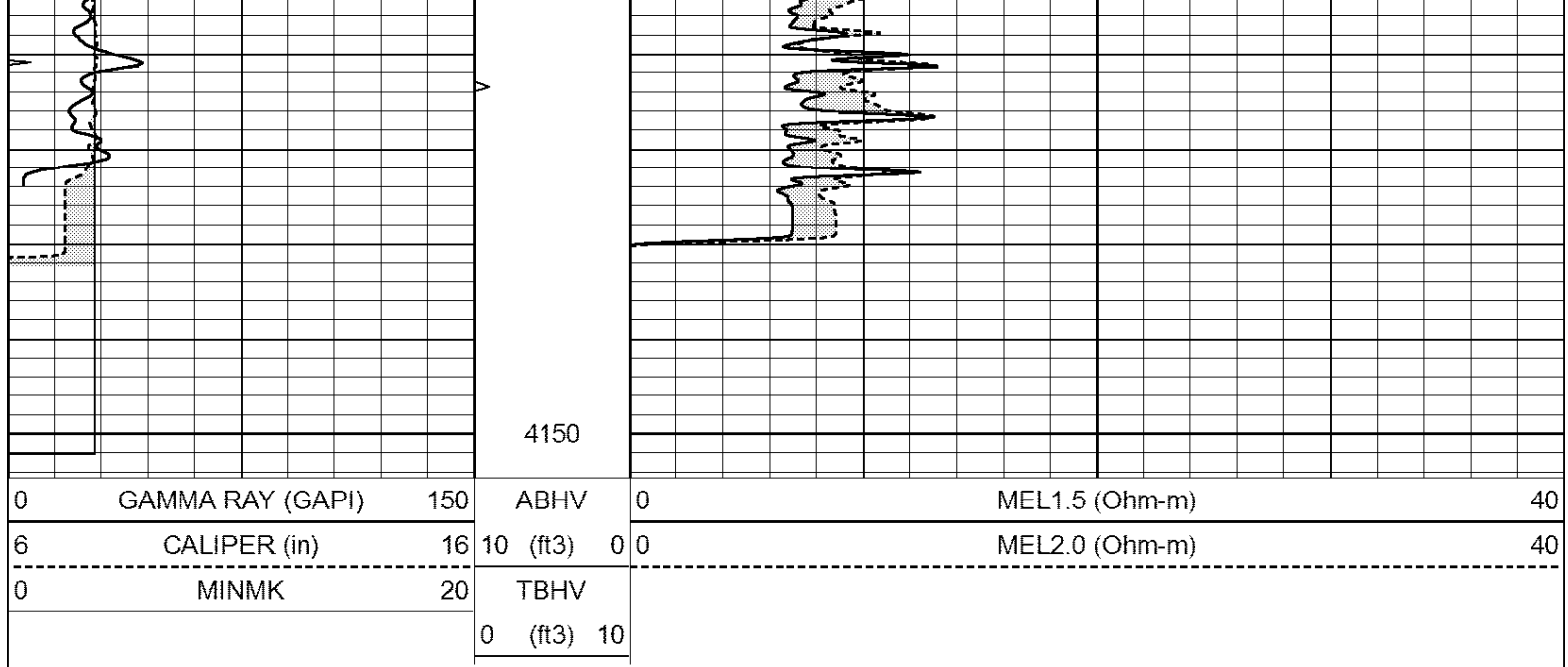


REPEAT SECTION

Database File: 2693ddn.db
Dataset Pathname: pass4.1
Presentation Format: _micro
Dataset Creation: Wed Jul 18 20:37:53 2018
Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	ABHV	0	MEL1.5 (Ohm-m)	40
6	CALIPER (in)	16	10 (ft3)	0	MEL2.0 (Ohm-m)	40
0	MINMK	20	TBHV			
			0 (ft3)	10		





Calibration Report			
Database File:	2693ddn.db		
Dataset Pathname:	pass4.1		
Dataset Creation:	Wed Jul 18 20:37:53 2018		
MICRO Calibration Report			
Serial Number:	MICRO4		
Tool Model:	PROBE		
Performed:	Thu Jul 05 09:30:00 2018		
Caliper Calibration:	Gain=3.729	Offset=-17.125	
	Low Cal	High Cal	
References	7.000	14.000	
Readings	6.470	8.348	
1.5" Calibration:	Gain=39.297	Offset=-0.175	
	Low Cal	High Cal	
References	0.000	20.000	
Readings	0.013	1.517	
2" Calibration:	Gain=51.168	Offset=-0.264	
	Low Cal	High Cal	
References	0.000	20.000	
Readings	0.015	1.180	
Gamma Ray Calibration Report			
Serial Number:	GR5		
Tool Model:	OPEN		
Performed:	Mon Jul 02 20:05:37 2018		
Calibrator Value:	1.0	GAPI	
Background Reading:	0.0	cps	
Calibrator Reading:	1.0	cps	
Sensitivity:	0.9200	GAPI/cps	