



MICRO LOG

Company	DNR OIL AND GAS, INC.		
Well	ZUEGE #13-23		
Field	UNNAMED		
County	CHEYENNE	State	KANSAS
Location:	AP1 # : 15-023-21511-0000		Other Services CDL/CNL/DIL SON
Permanent Datum	SEC 23 TWP 1S RGE 41W	2065' FSL & 165' FWL	Elevation
Log Measured From	GROUND LEVEL		3578
Drilling Measured From	KELLY BUSHING 5' A.G.L. KELLY BUSHING		K.B. 3583 D.F. 3581 G.L. 3578
Date	5/11/19		
Run Number	TWO		
Depth Driller	5430		
Depth Logger	5433		
Bottom Logged Interval	5413		
Top Log Interval	4000		
Casing Driller	8 5/8" @ 302		
Casing Logger	302		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.2/55		
pH / Fluid Loss	10.5/6.4		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	1.4 @ 59F		
Rmt @ Meas. Temp	1.05 @ 59F		
Rmc @ Meas. Temp	1.68 @ 59F		
Source of Rmt / Rmc	MEASURED		
Rm @ BHT	.64 @ 129F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	///		
Maximum Recorded Temperature	129F		
Equipment Number	1523		
Location	HAYS, KANSAS		
Recorded By	GUS PFANENSTIEL		
Witnessed By	TIM LAUER		

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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

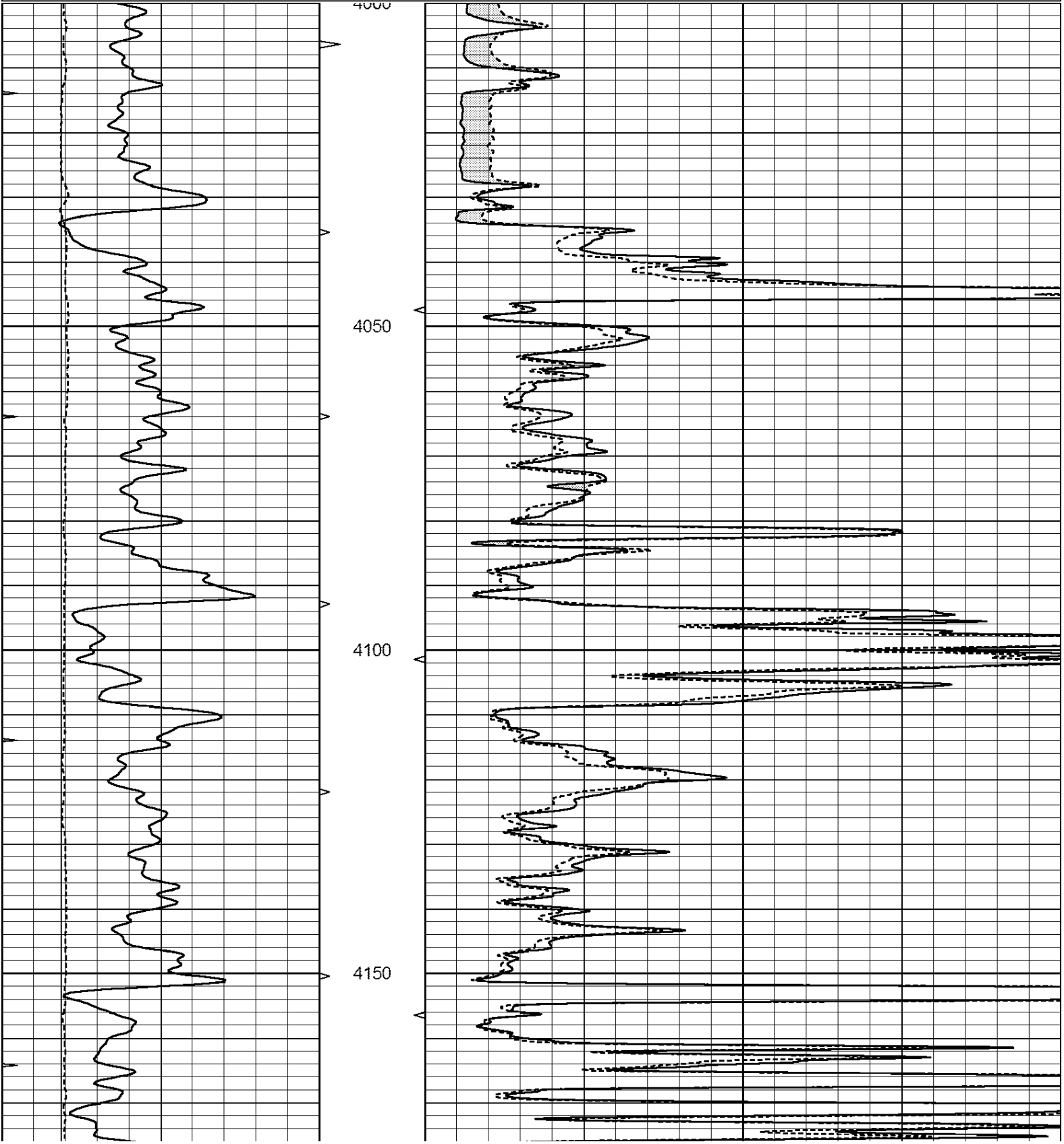
DIRECTIONS
ST. FRANCIS 2 W, 6N, 5W, 6N TO MM 22,
2 E, 1/3 N, E INTO

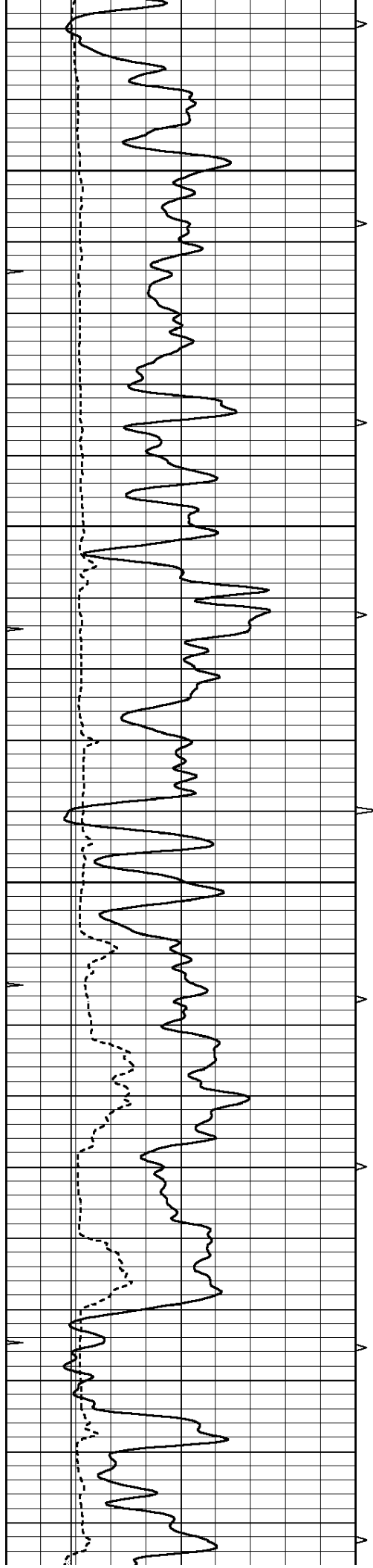


MAIN PASS

Database File: 3679pe.db
Dataset Pathname: pass5MIC
Presentation Format: _micro
Dataset Creation: Sat May 11 14:03:58 2019
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	0	MEL2.0 (Ohm-m)	40
0	MINMK	20	TBHV			
			0 (ft3) 10			



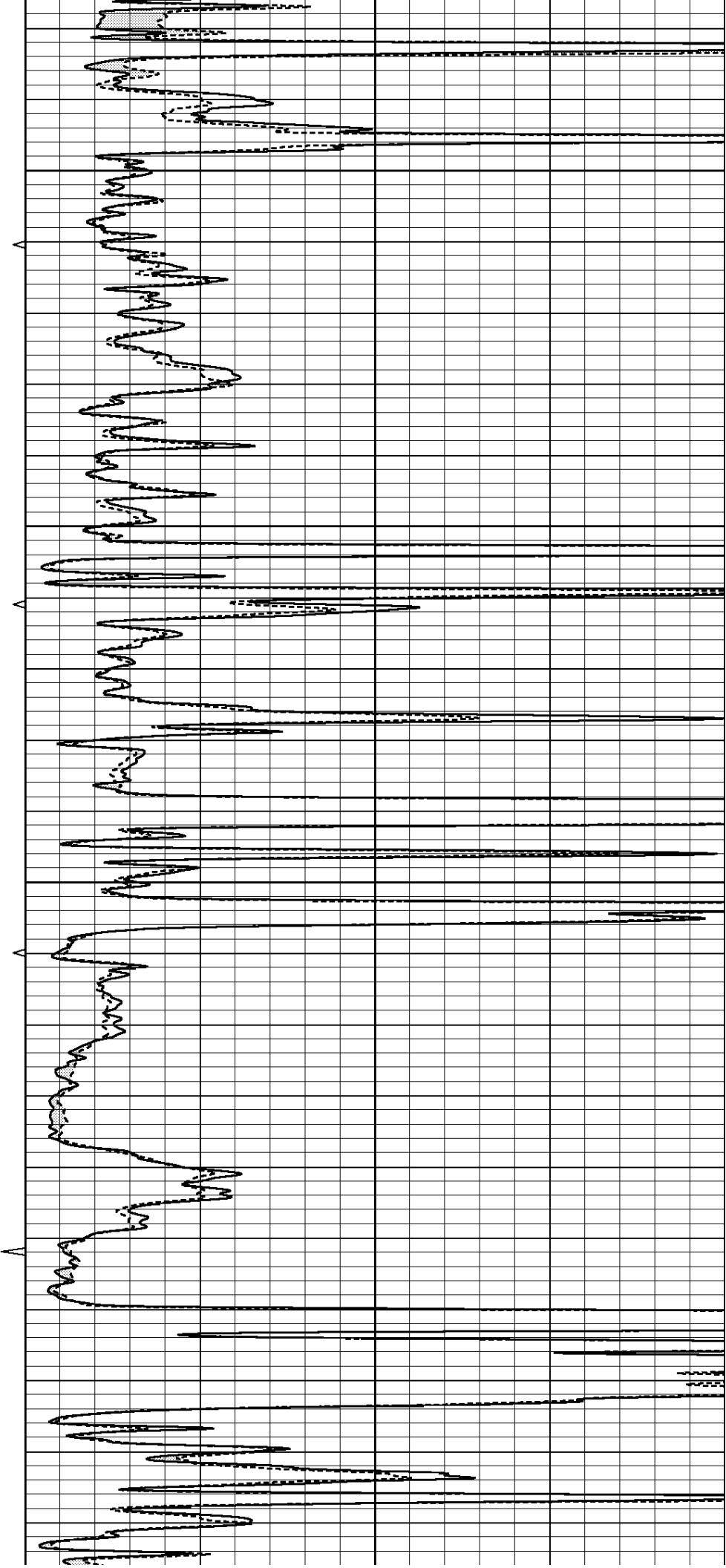


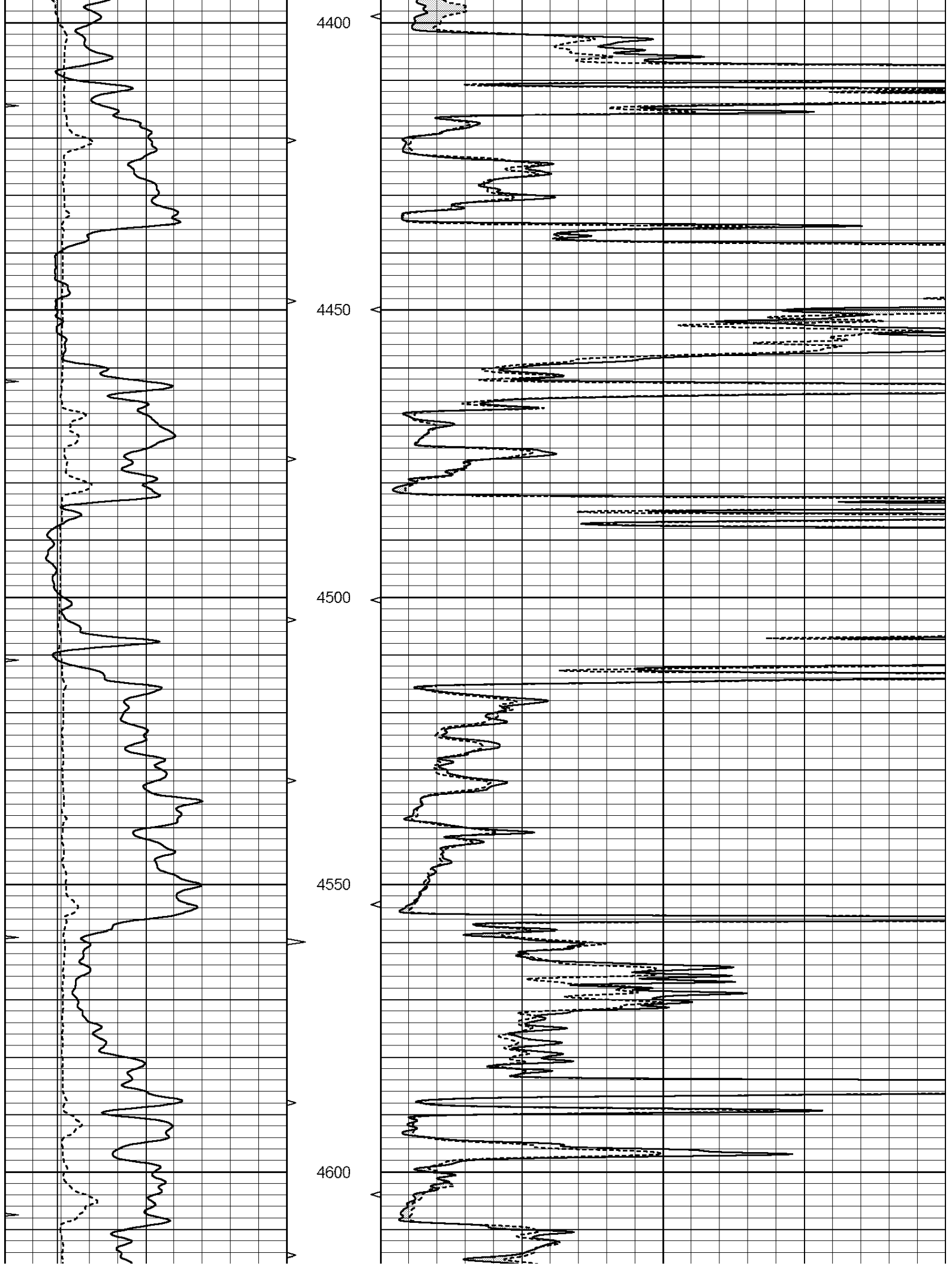
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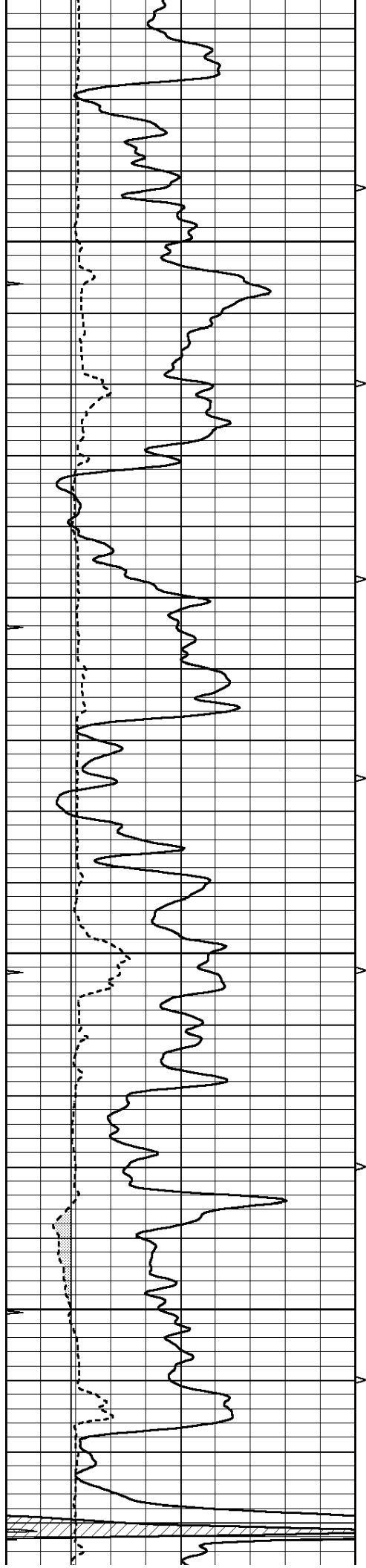
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4300

4350





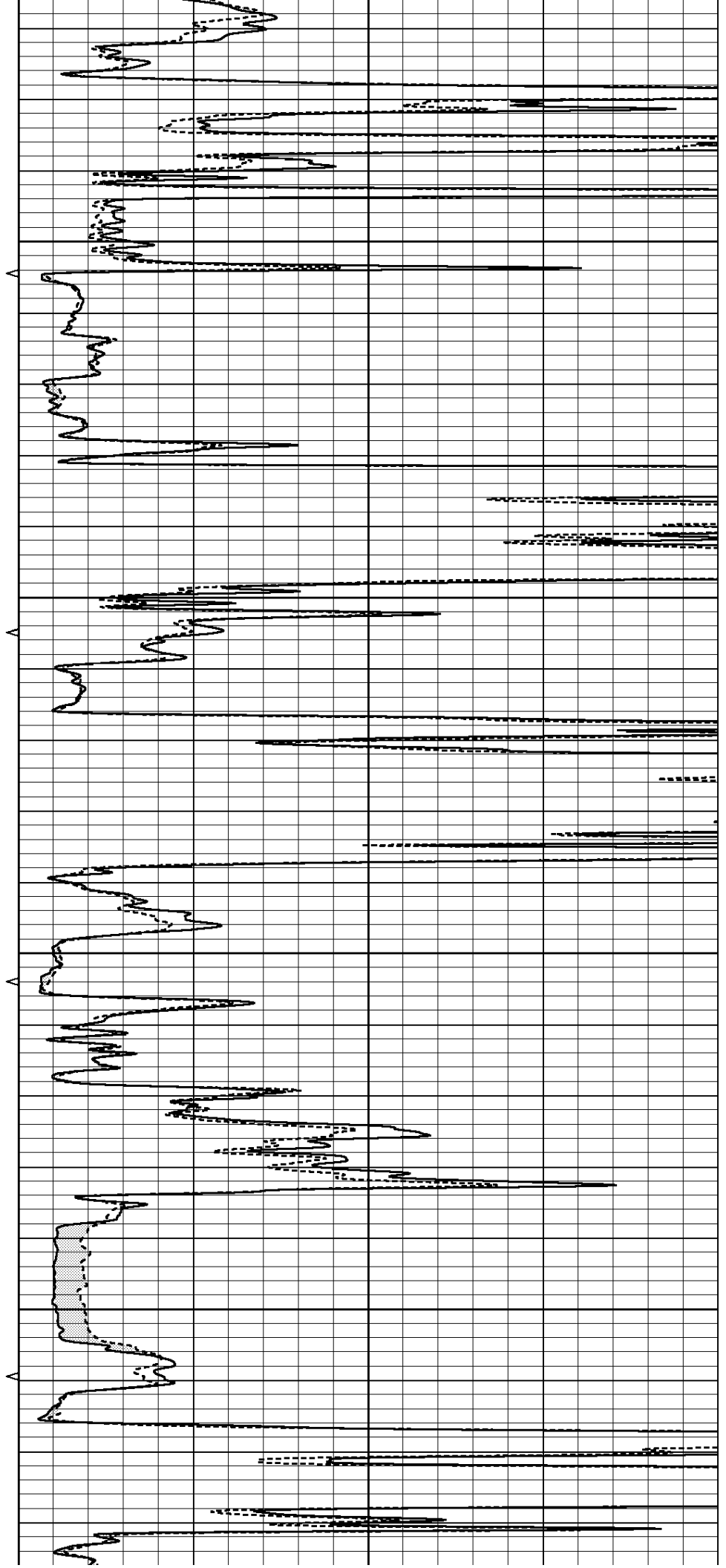


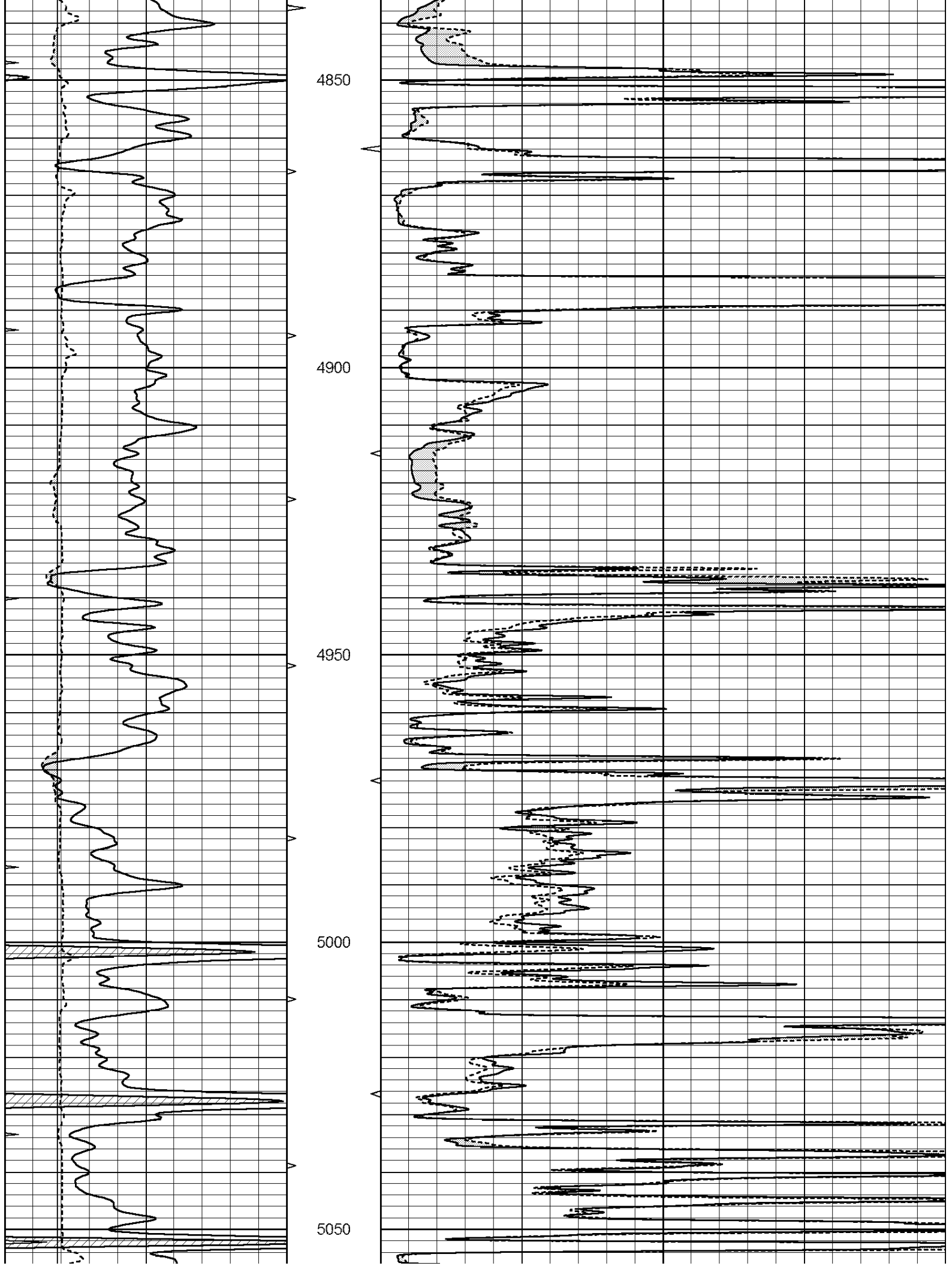
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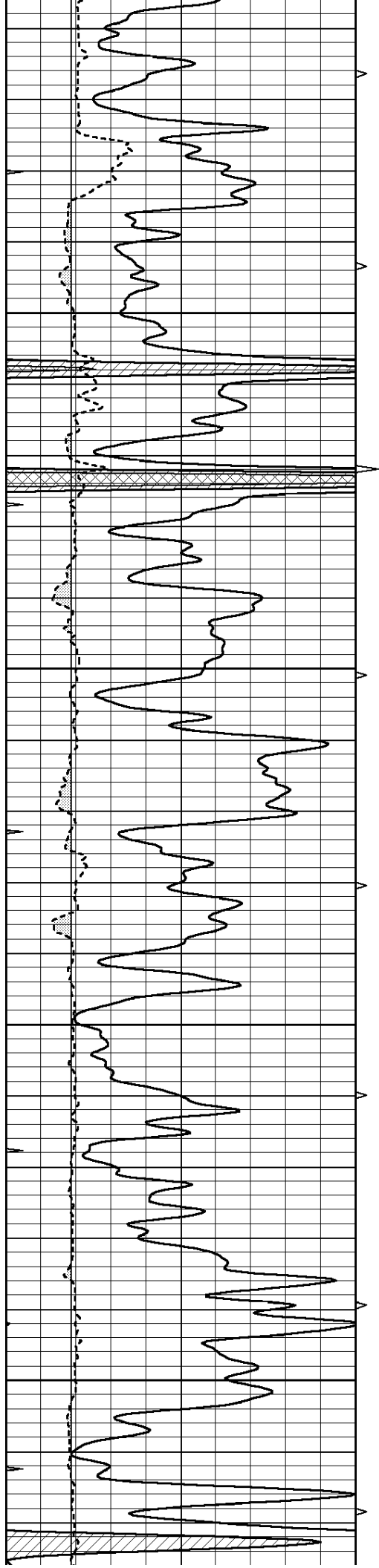
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4800





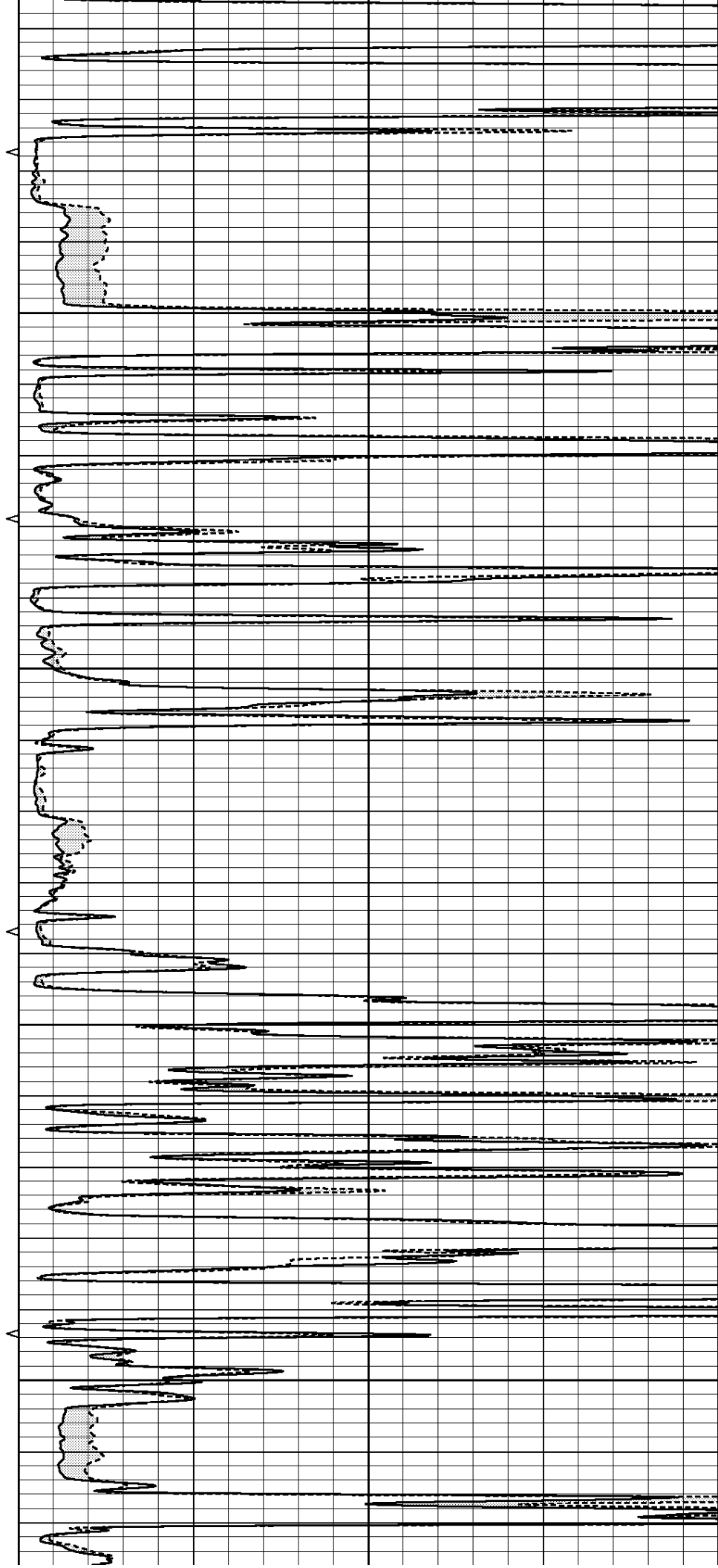


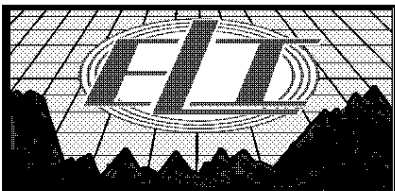
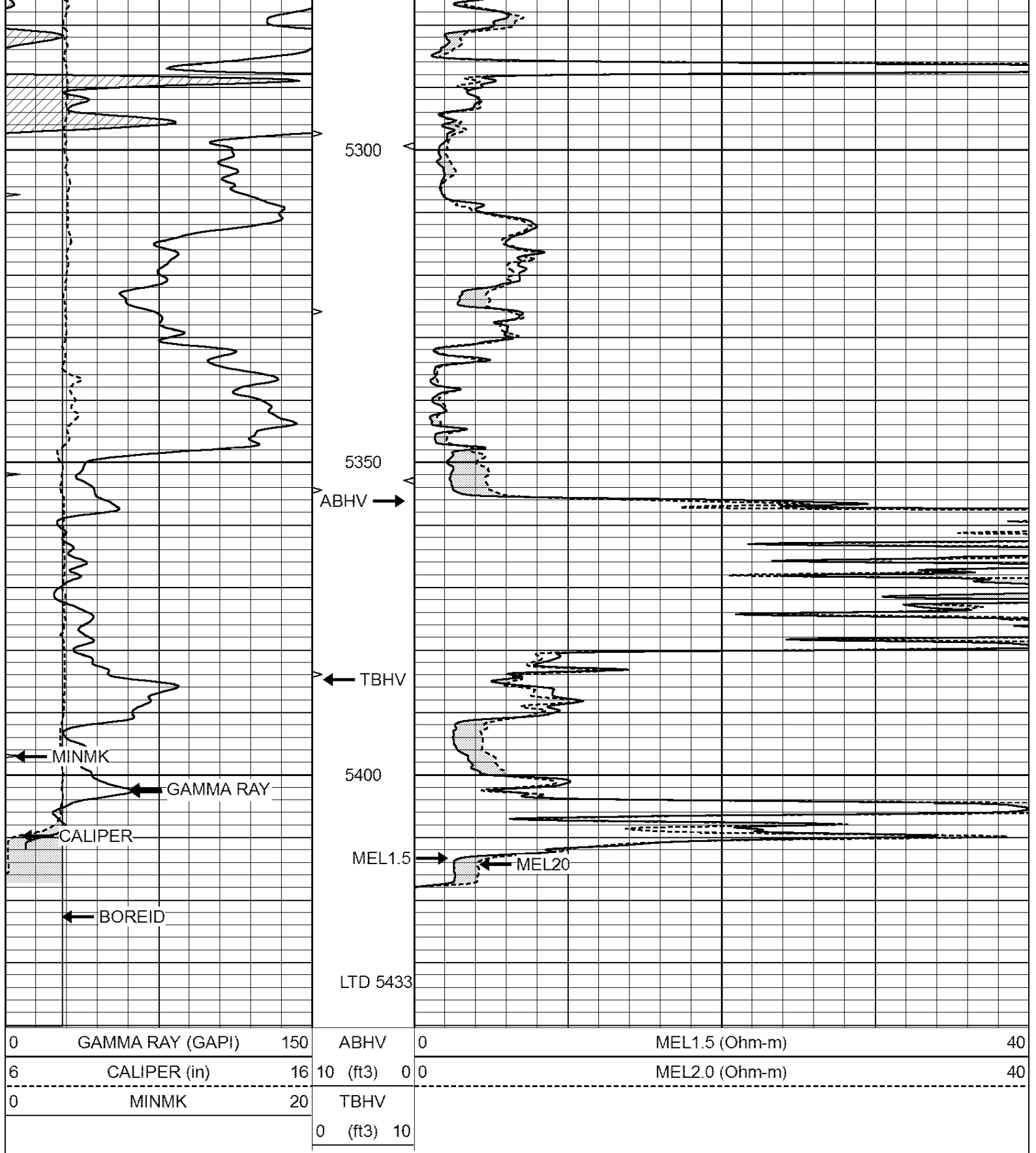
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5150

5200

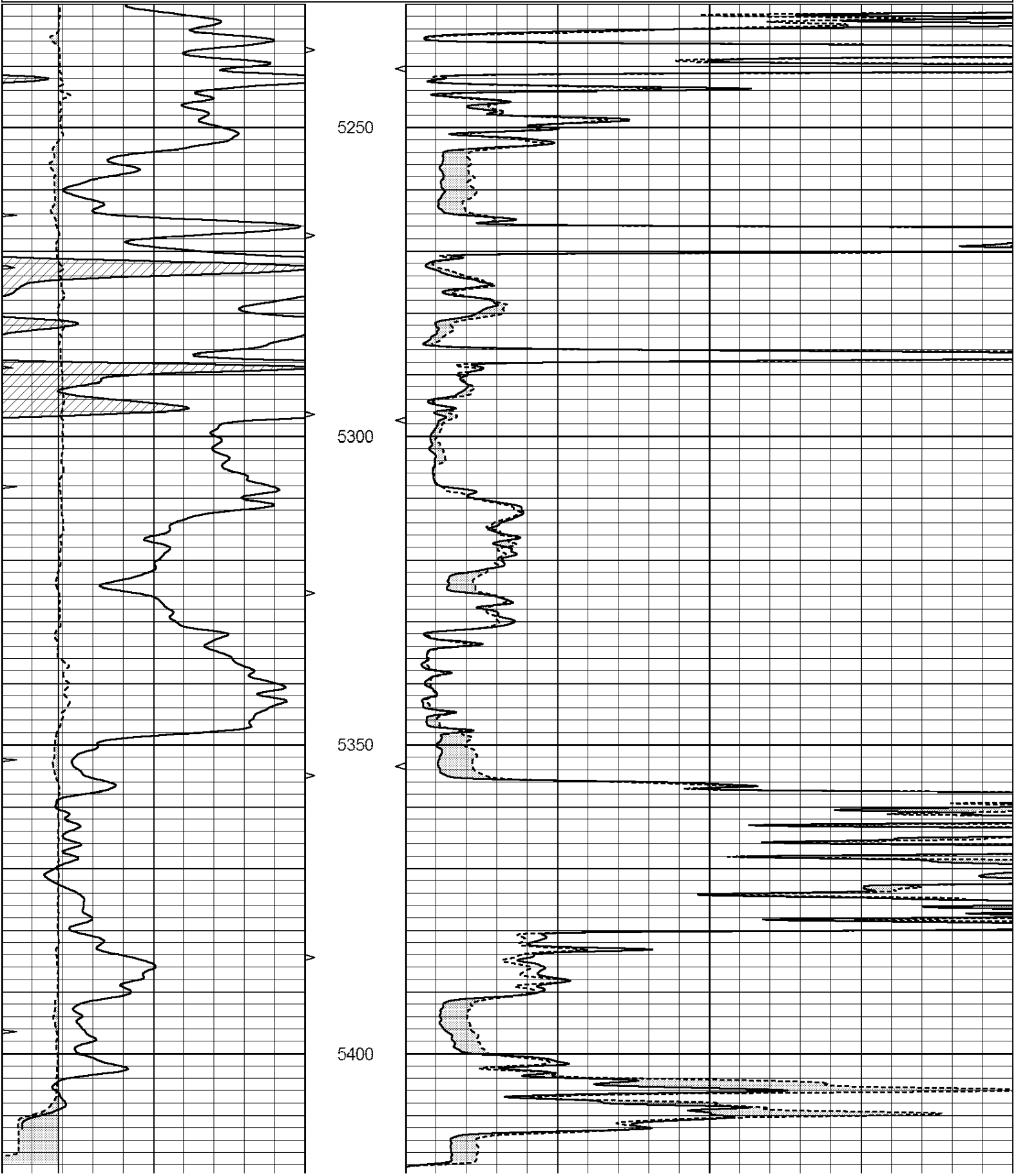
5250





REPEAT SECTION

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



[illegible]

Calibration Report

Database File: 3679pe.db
Dataset Pathname: pass4.1
Dataset Creation: Sat May 11 13:52:17 2019

MICRO Calibration Report

Serial Number: MICRO3
Tool Model: PROBE
Performed: Sat Apr 06 08:28:00 2019

Caliper Calibration:	Gain=5.761	Offset=-21.702
	Low Cal	High Cal
References	7.000	14.000
Readings	5.339	6.500

1.5" Calibration:	Gain=79.606	Offset=-0.120
	Low Cal	High Cal
References	0.000	20.000
Readings	0.001	0.230

2" Calibration:	Gain=118.028	Offset=-1.176
	Low Cal	High Cal
References	0.000	20.000
Readings	0.018	0.188

Gamma Ray Calibration Report

Serial Number: GR5
Tool Model: OPEN
Performed: Wed Feb 27 04:44:36 2019

Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.5600	GAPI/cps