



NABORS

**COMPLETION
& PRODUCTION
SERVICES CO.**

**MICRO
LOG**

Company		EDISON OPERATING COMPANY, LLC.	
Well	COTTRELL #1-8		
Field	WILDCAT		
County	MEADE	State	KANSAS
Location:	AP1 # : 15-119-21324-0000		Other Services CDL/CNL/PE DIL/SONIC
Permanent Datum	GROUND LEVEL		Elevation 2622
Log Measured From	KELLY BUSHING 13' A.G.L.		K.B. 2635 D.F. 2633 G.L. 2622
Drilling Measured From	KELLY BUSHING		
Date	10/2/12		
Run Number	TWO		
Depth Driller	6100		
Depth Logger	6098		
Bottom Logged Interval	6078		
Top Log Interval	4000		
Casing Driller	8 5/8"@1562'		
Casing Logger	1562		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 2,800 PPM	
Density / Viscosity	9.2/57		
pH / Fluid Loss	10.0/8.6		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.850@78F		
Rmt @ Meas. Temp	.636@78F		
Rmc @ Meas. Temp	1.02@78F		
Source of Rmt / Rmc	MEASUREMENT		
Rm @ BHT	.491@135F		
Time Circulation Stopped	6 HOURS		
Time Logger on Bottom	6:15 P.M.		
Maximum Recorded Temperature	135F		
Equipment Number	4010		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	PAUL GERLACH		

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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 "NABORS" HAYS, KANSAS (785) 628-6395
DIRECTIONS

MEADE, KS.(W. EDGE) 7 1/2W. ON HWY 54 TO "RD. 9", 7S., 1E. TO DEAD END, 1N. & W. ON TRAIL



NABORS

**COMPLETION
& PRODUCTION**

MAIN SECTION

Database File:

409685pe.db

Dataset Pathname:

pass6.4

Presentation Format:

_micro

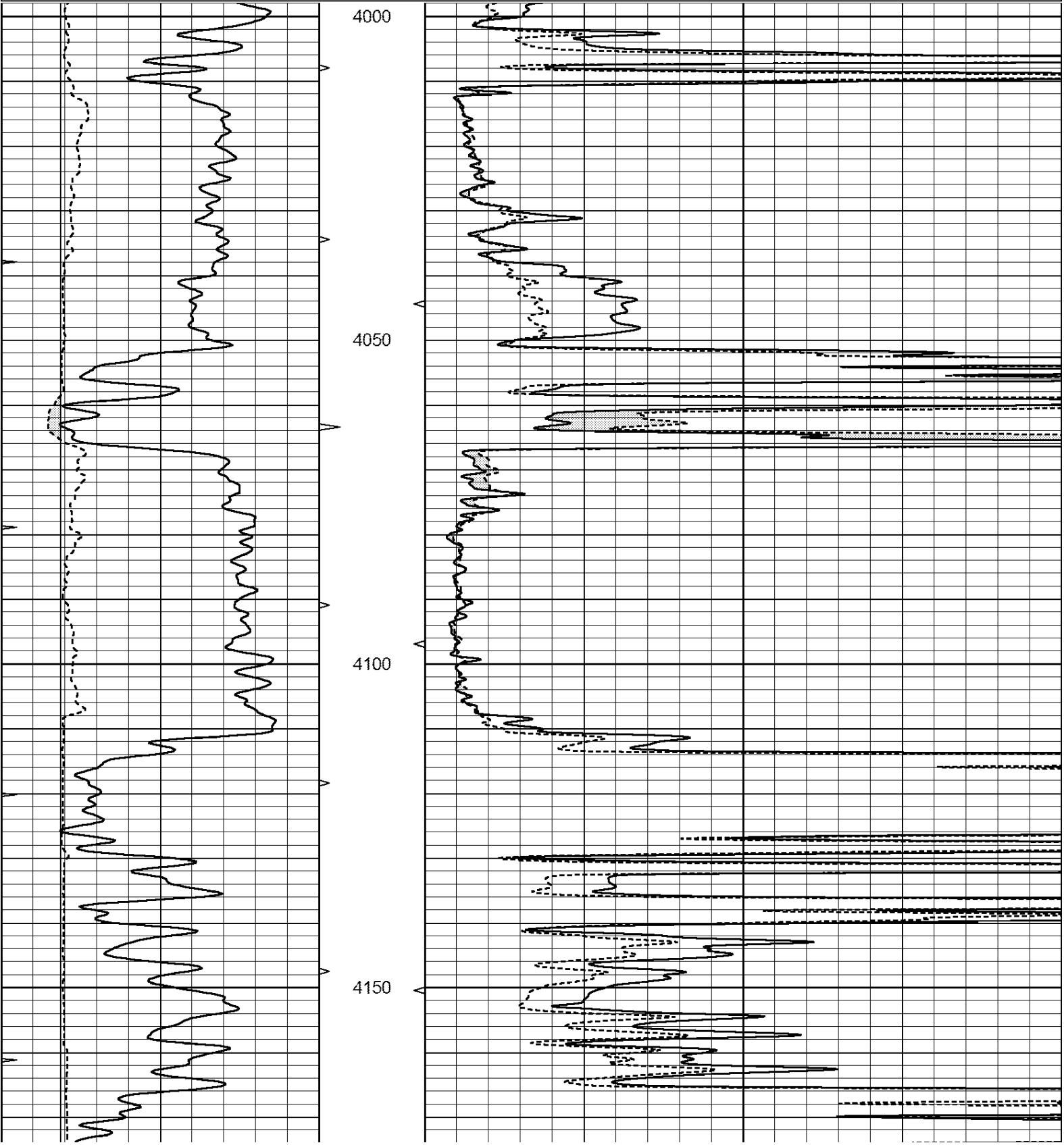
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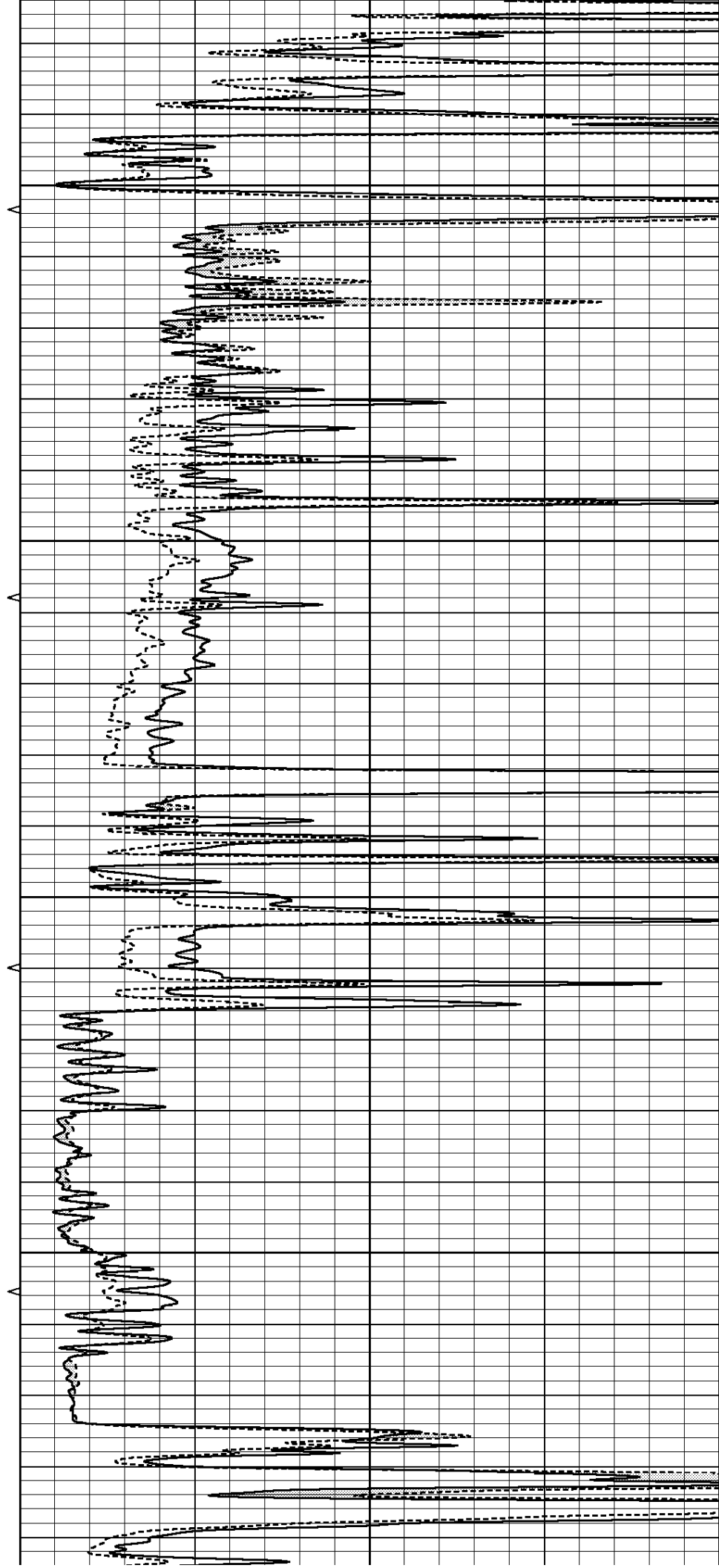
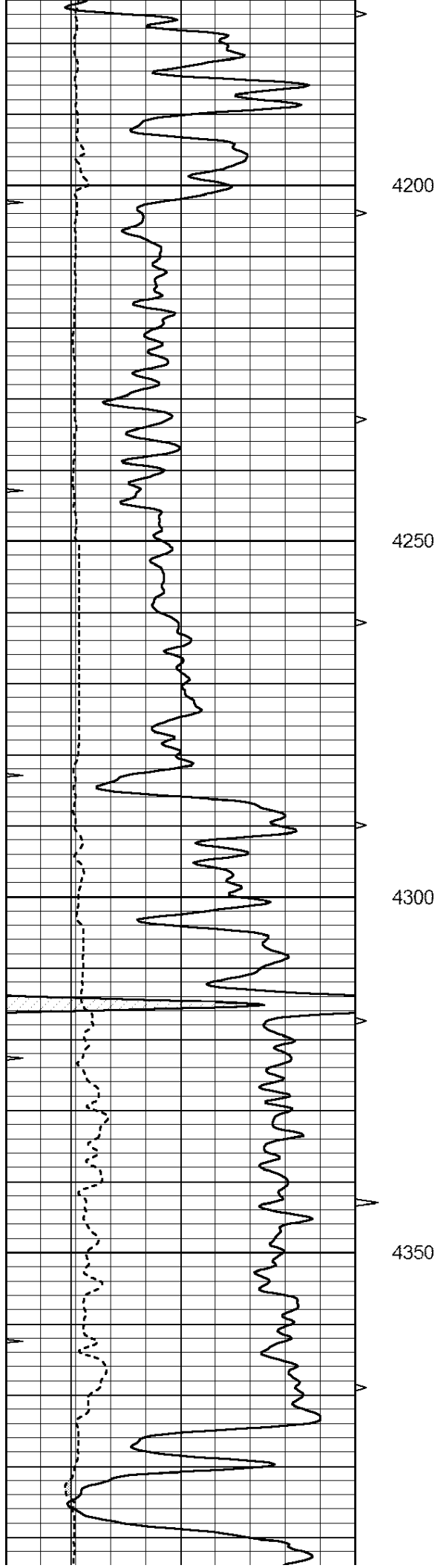
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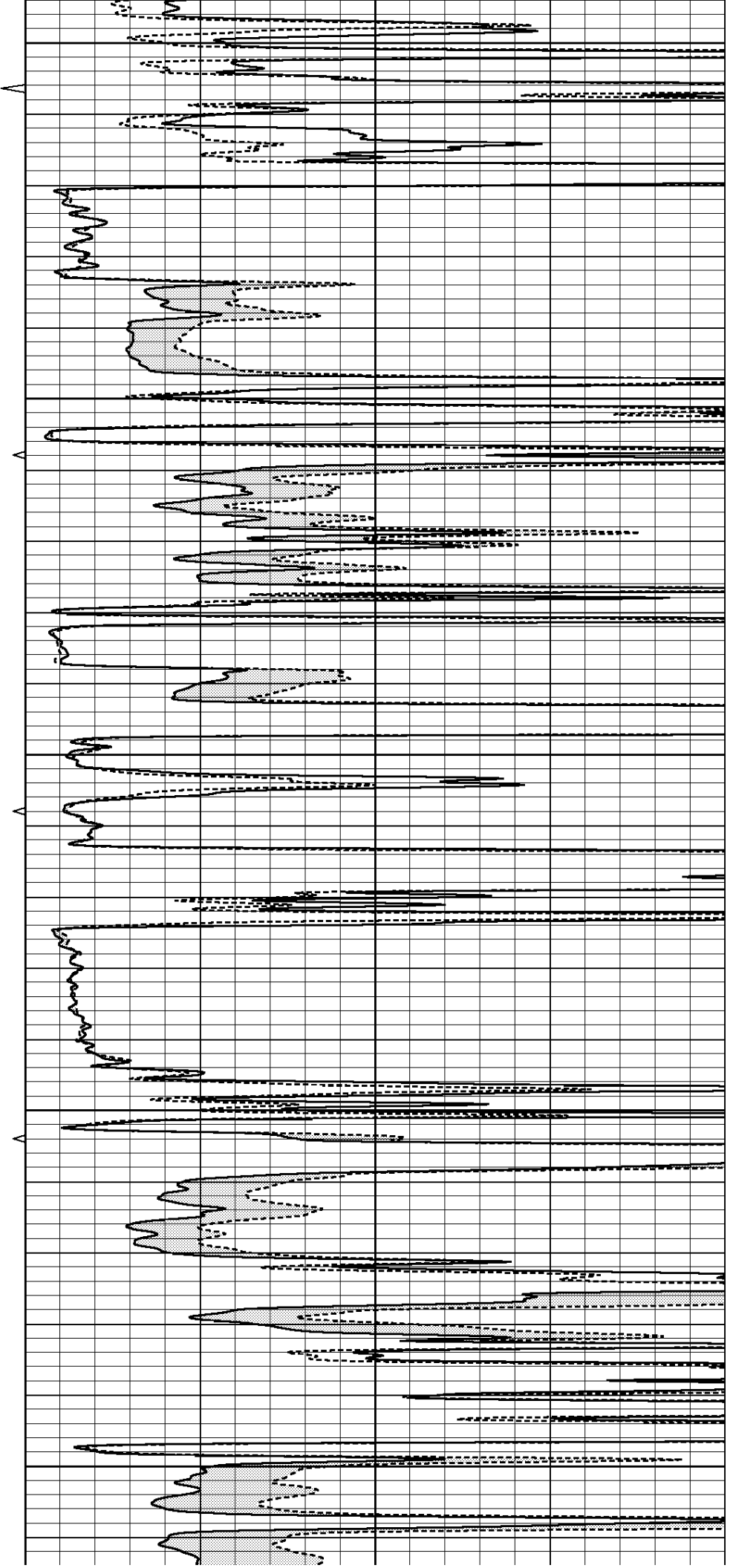
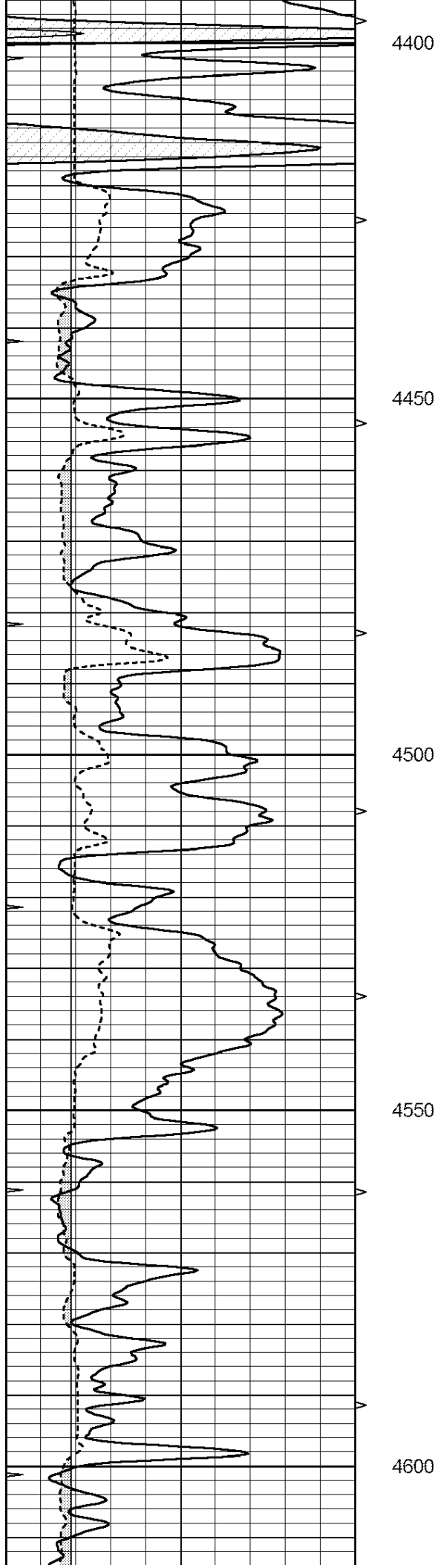
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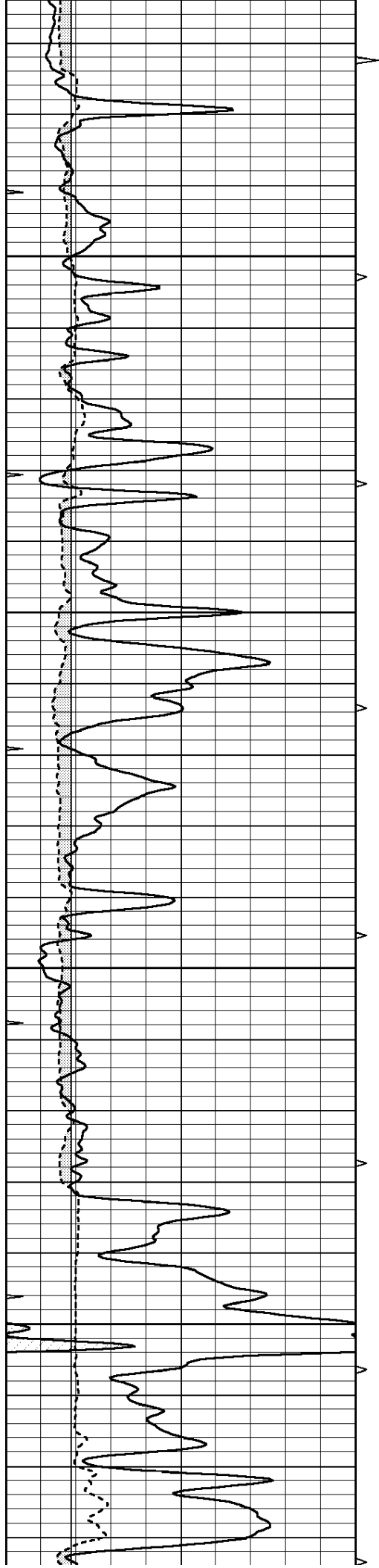
Depth in Feet scaled 1:240

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			







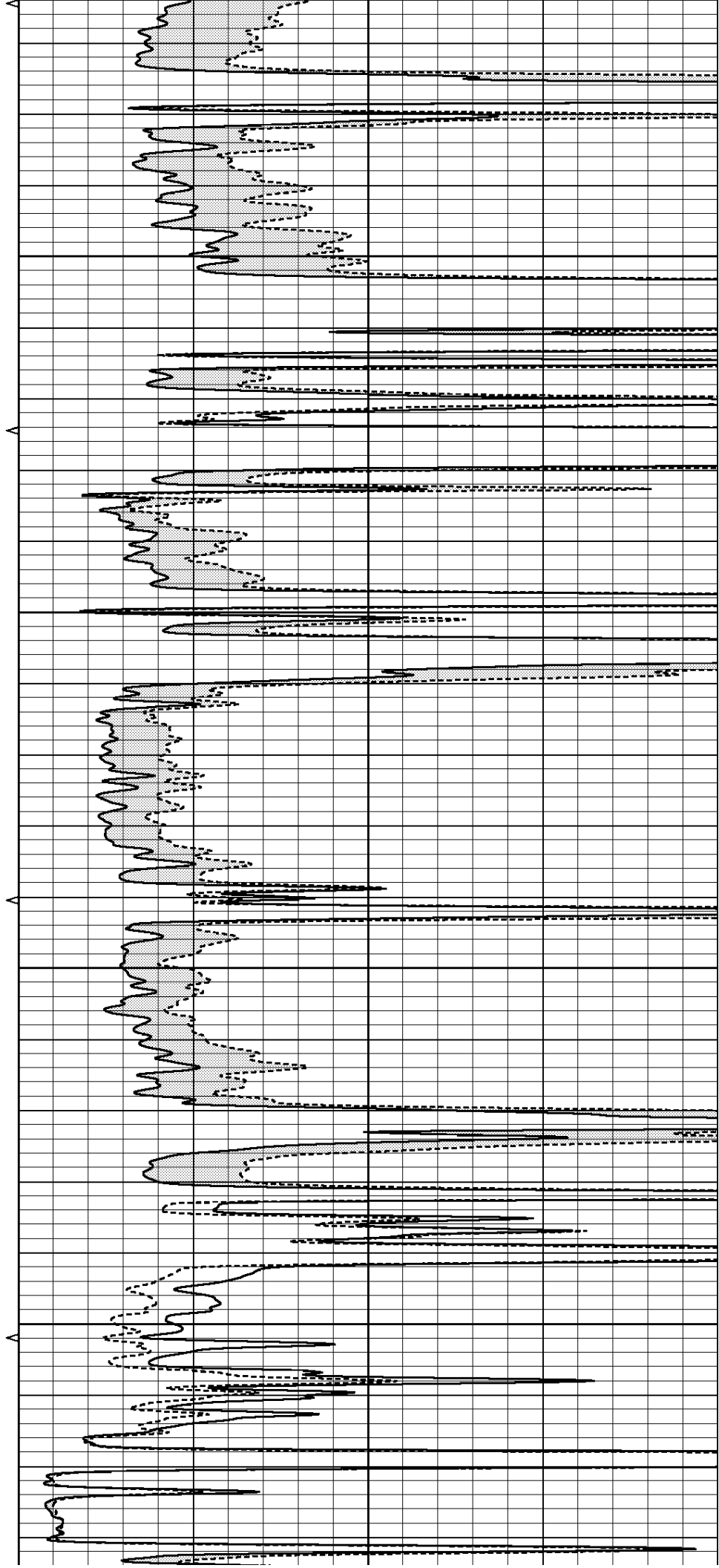


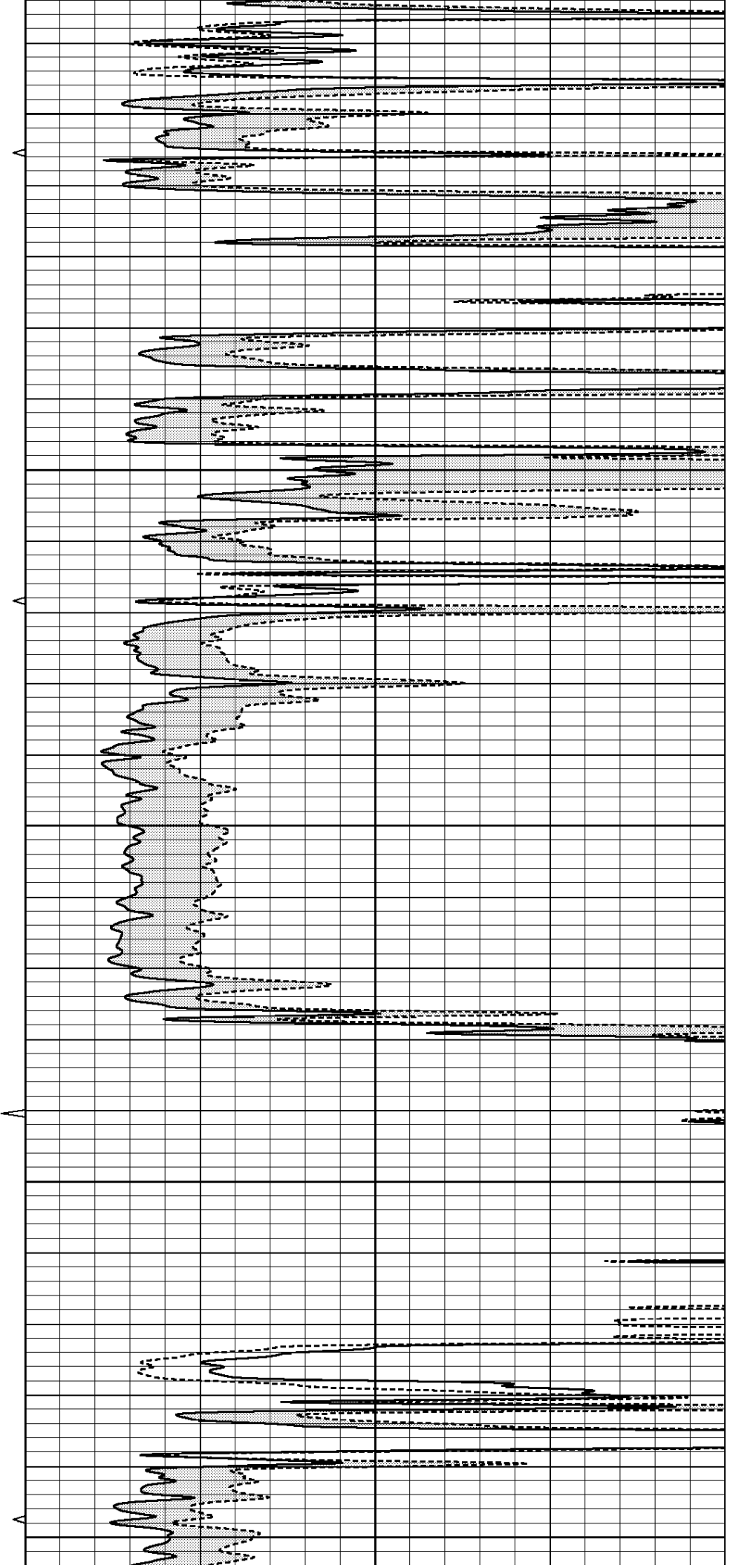
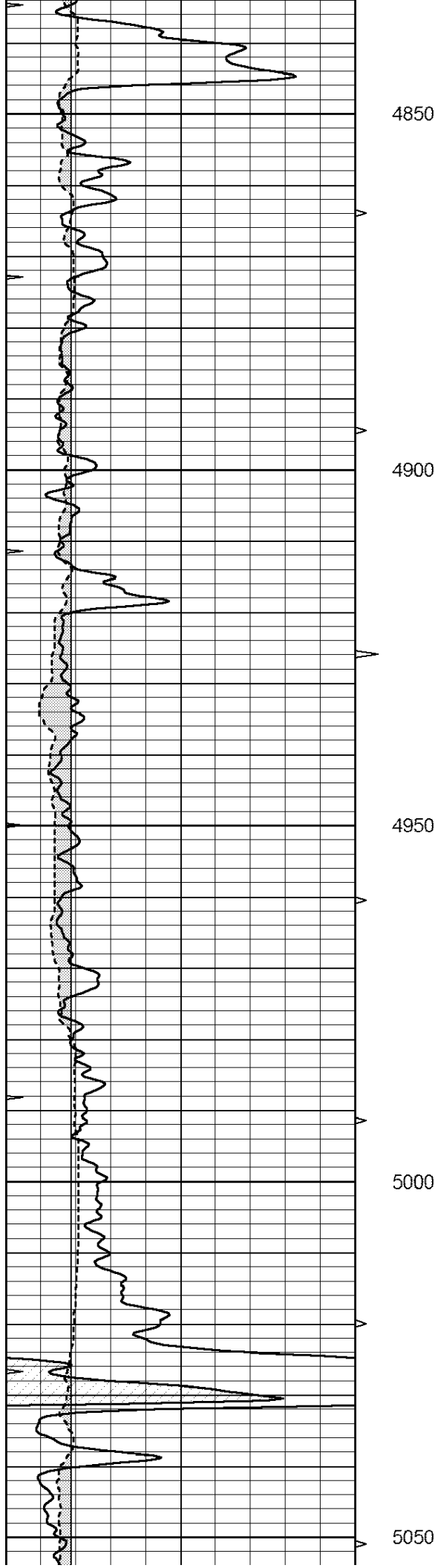
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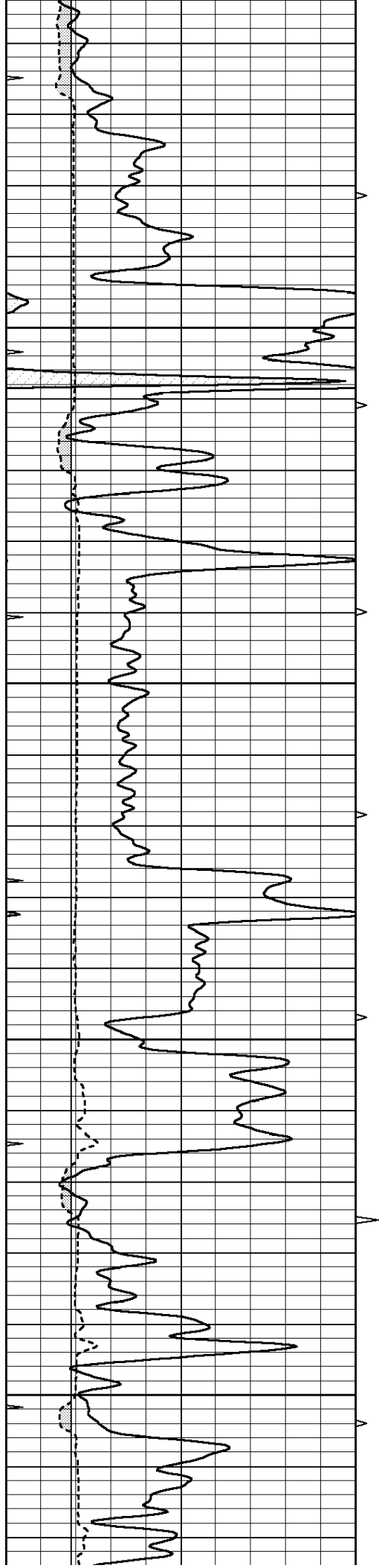
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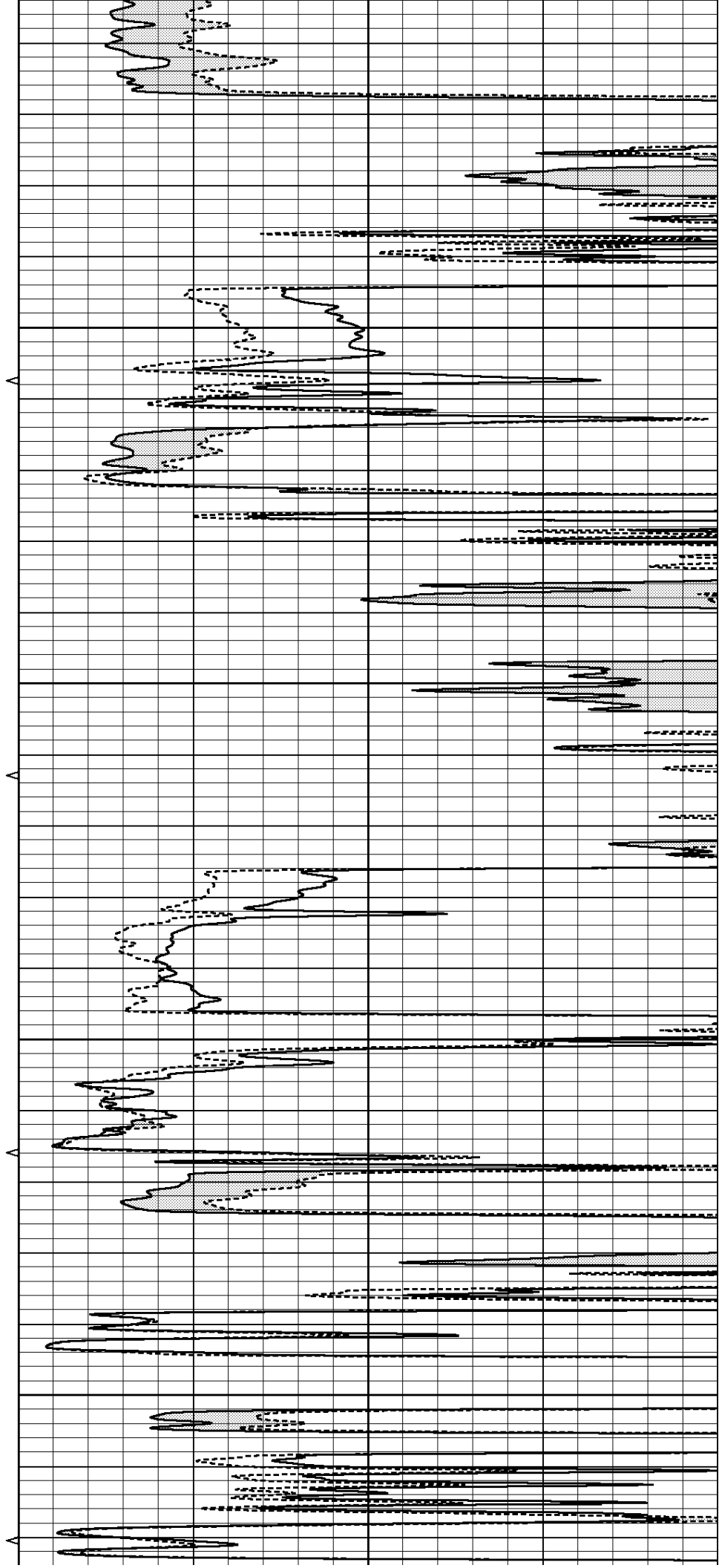


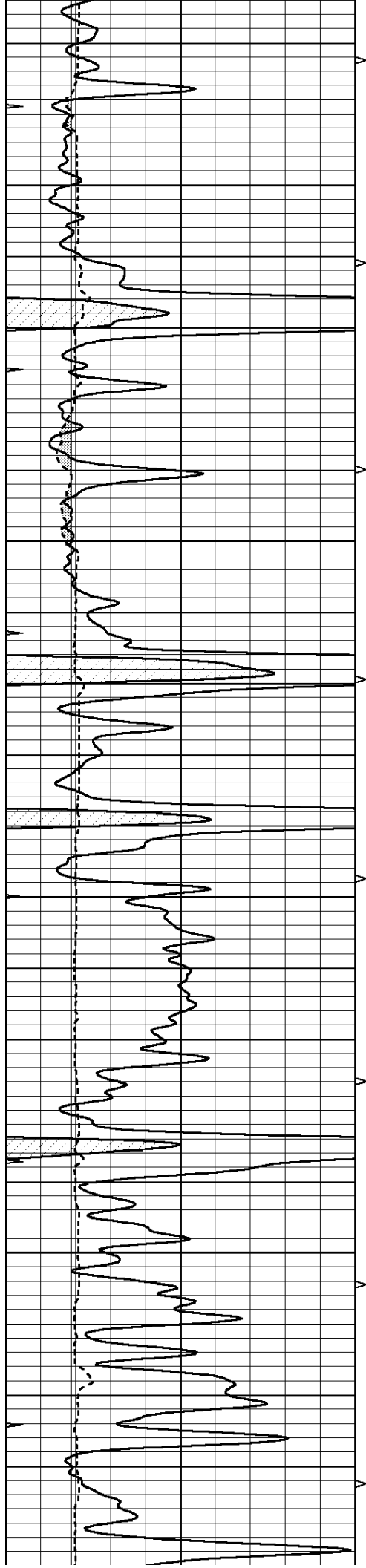
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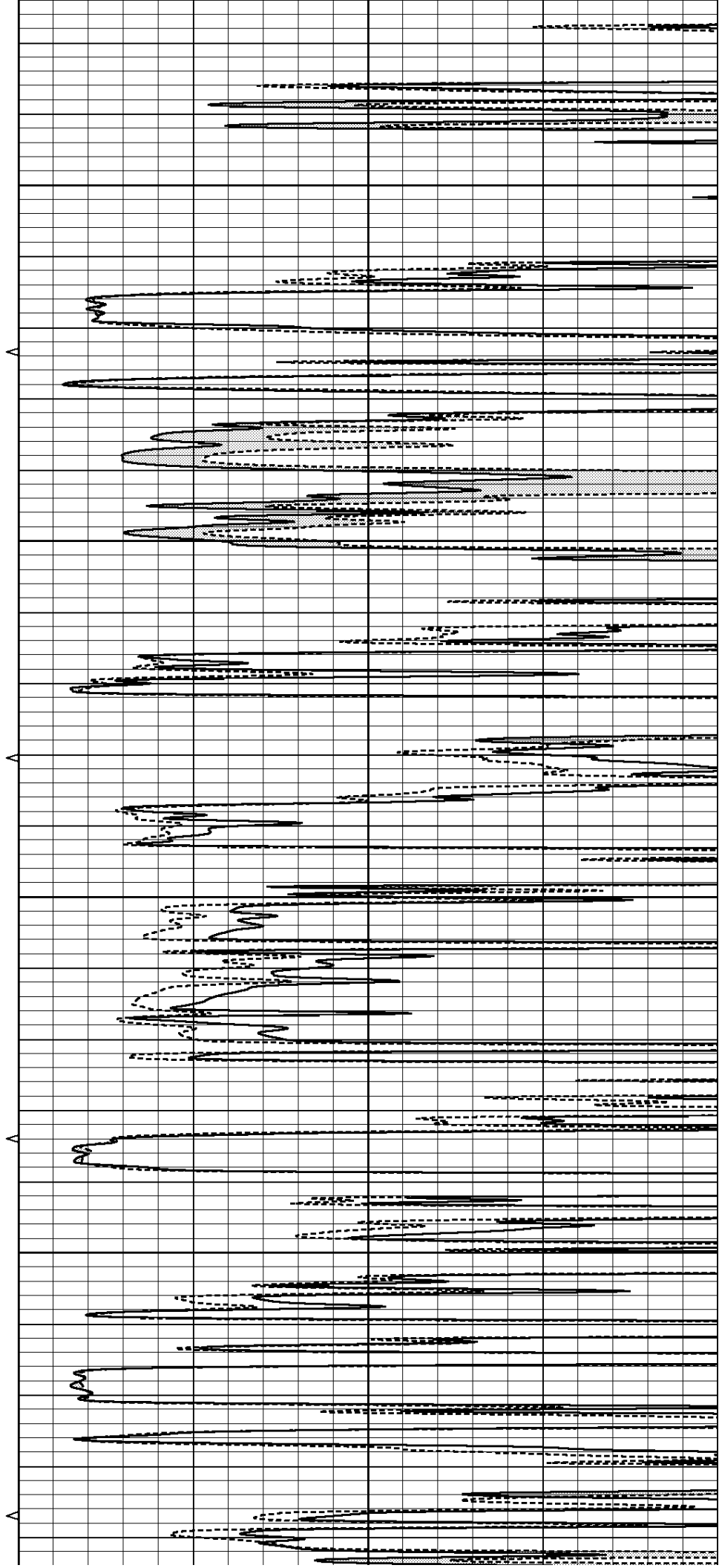


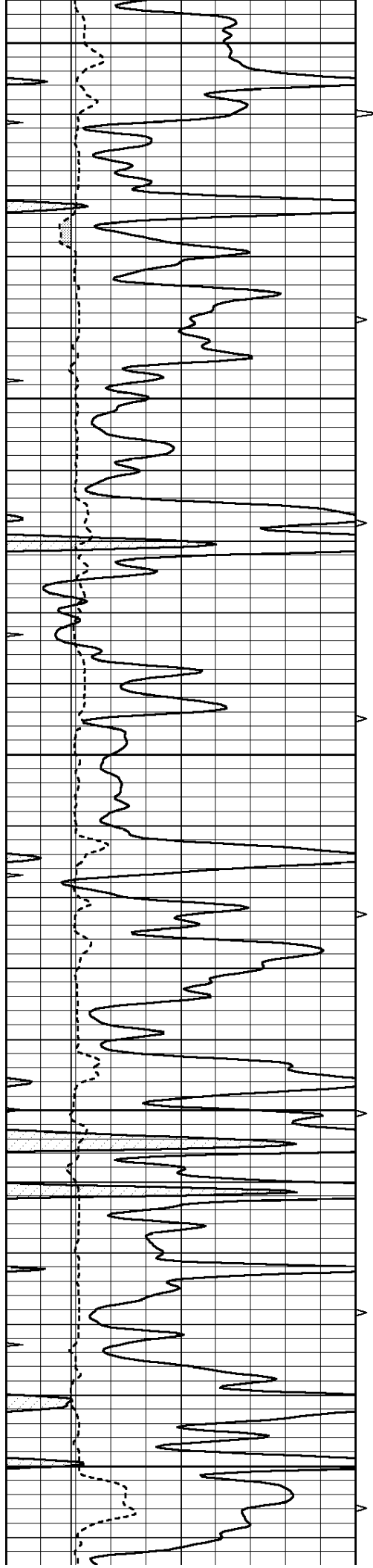
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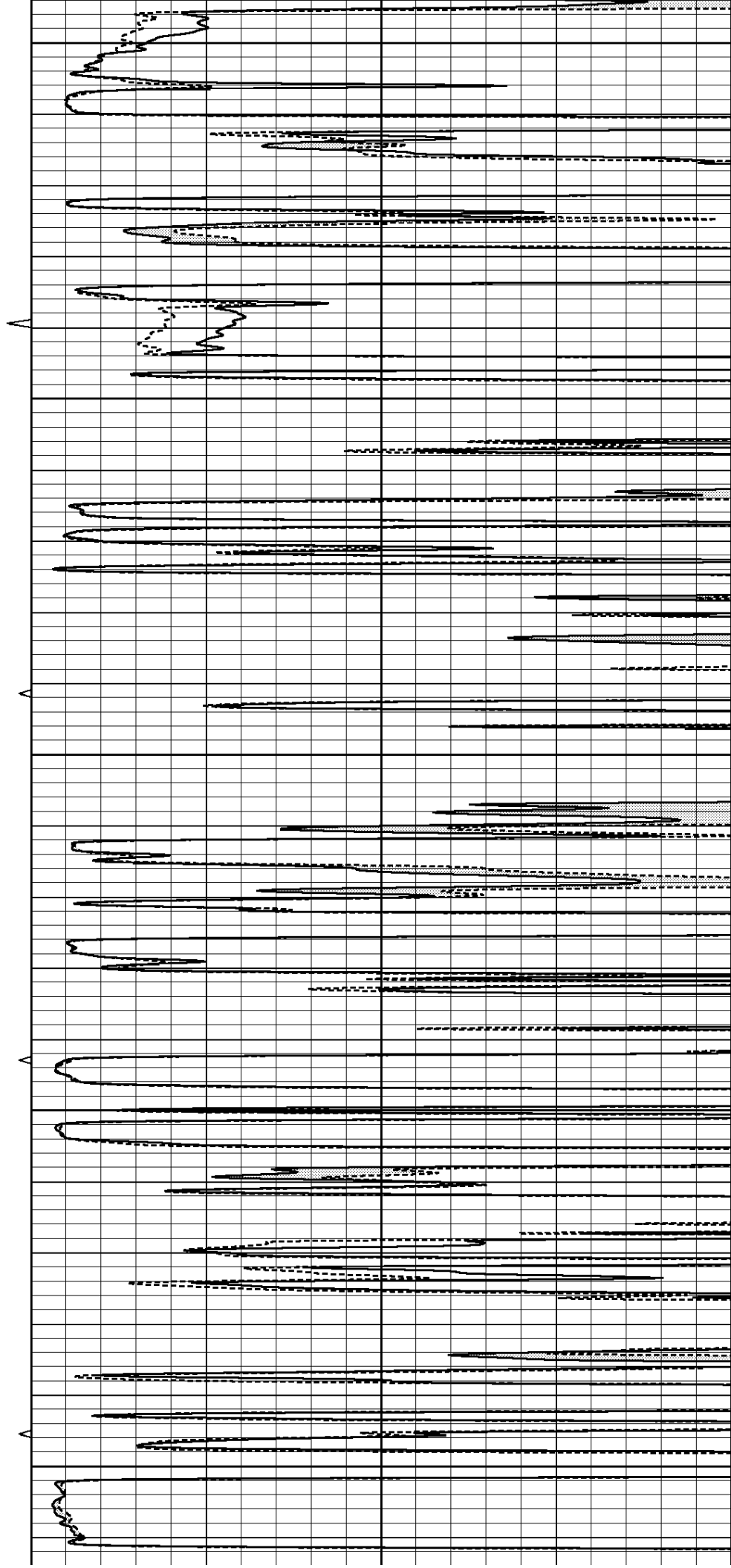
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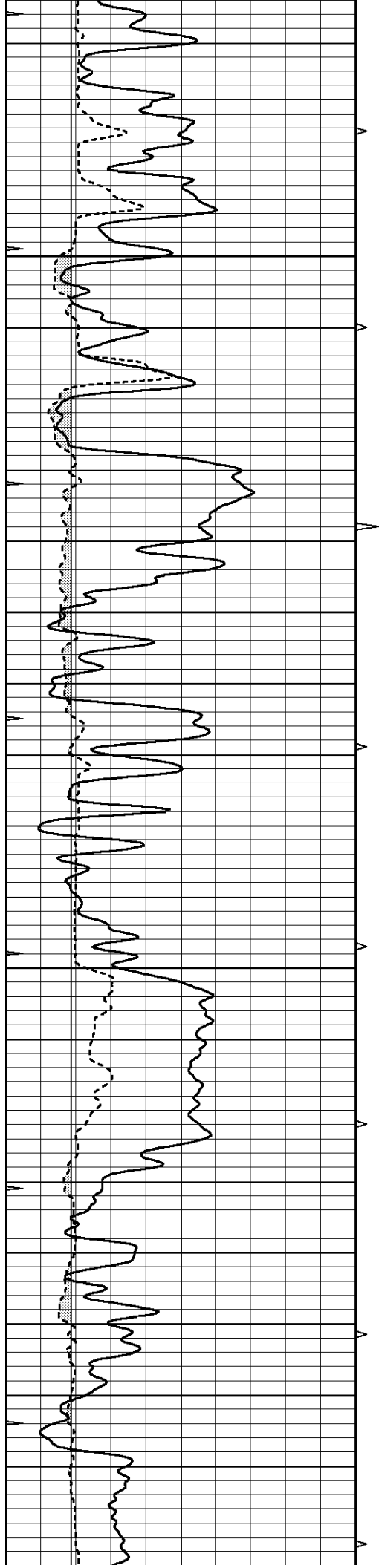
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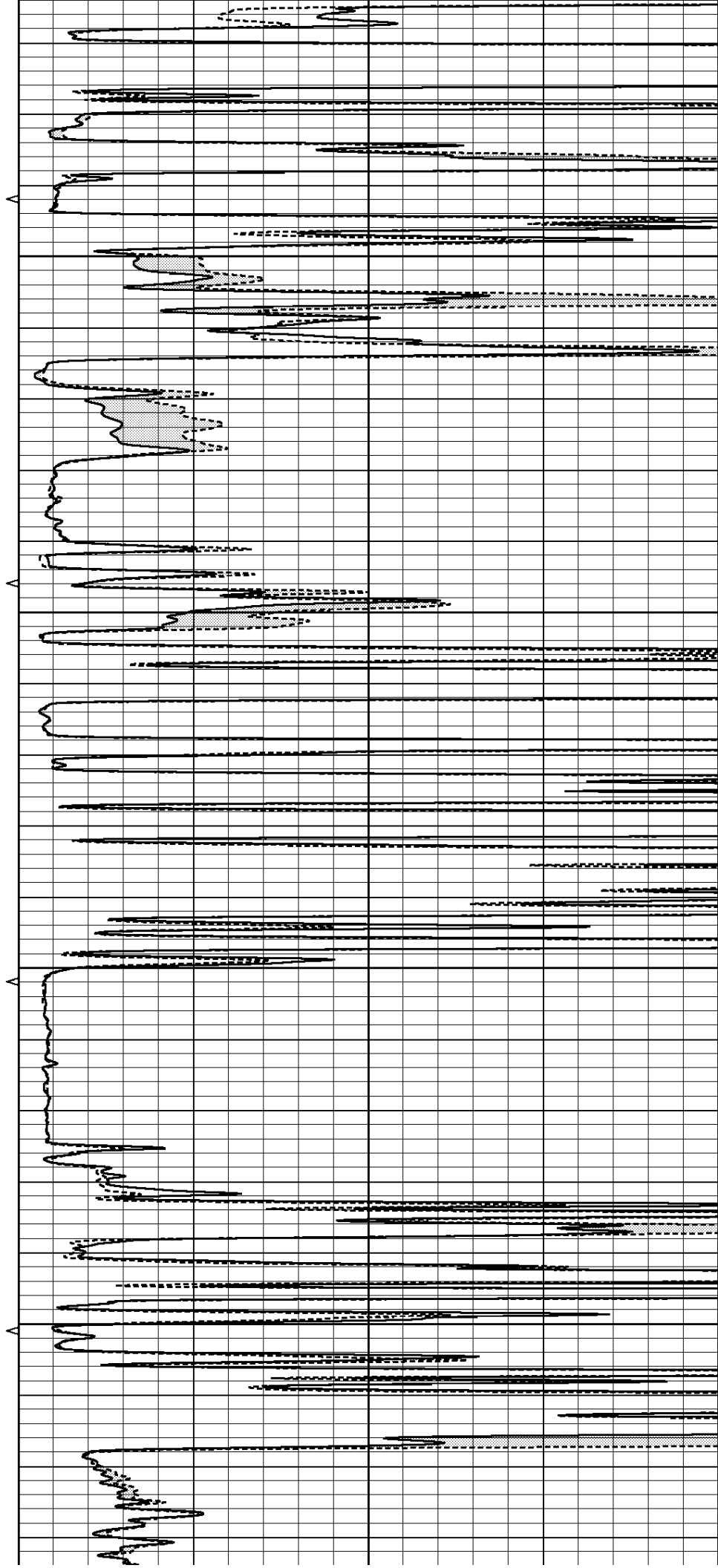


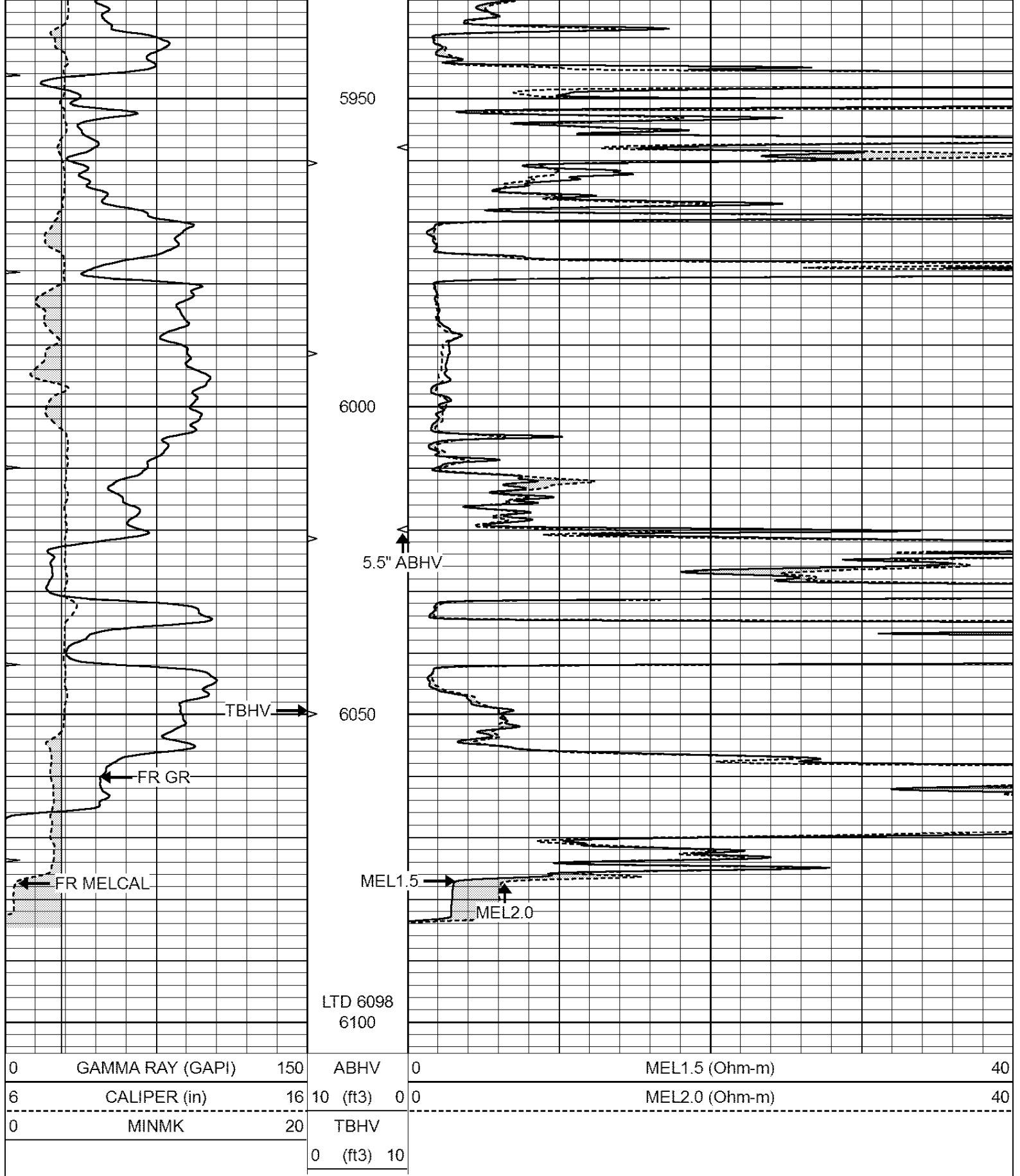
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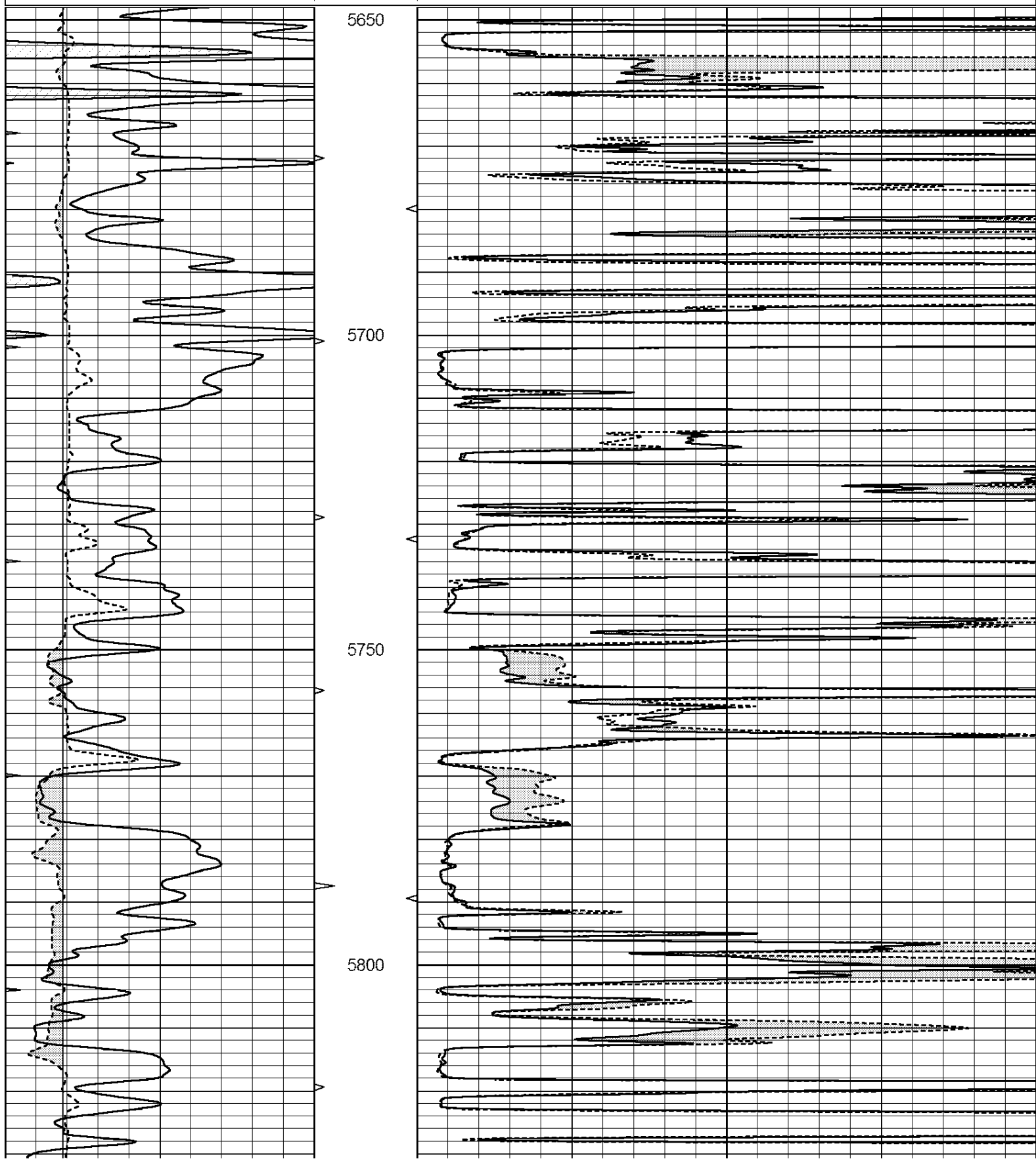
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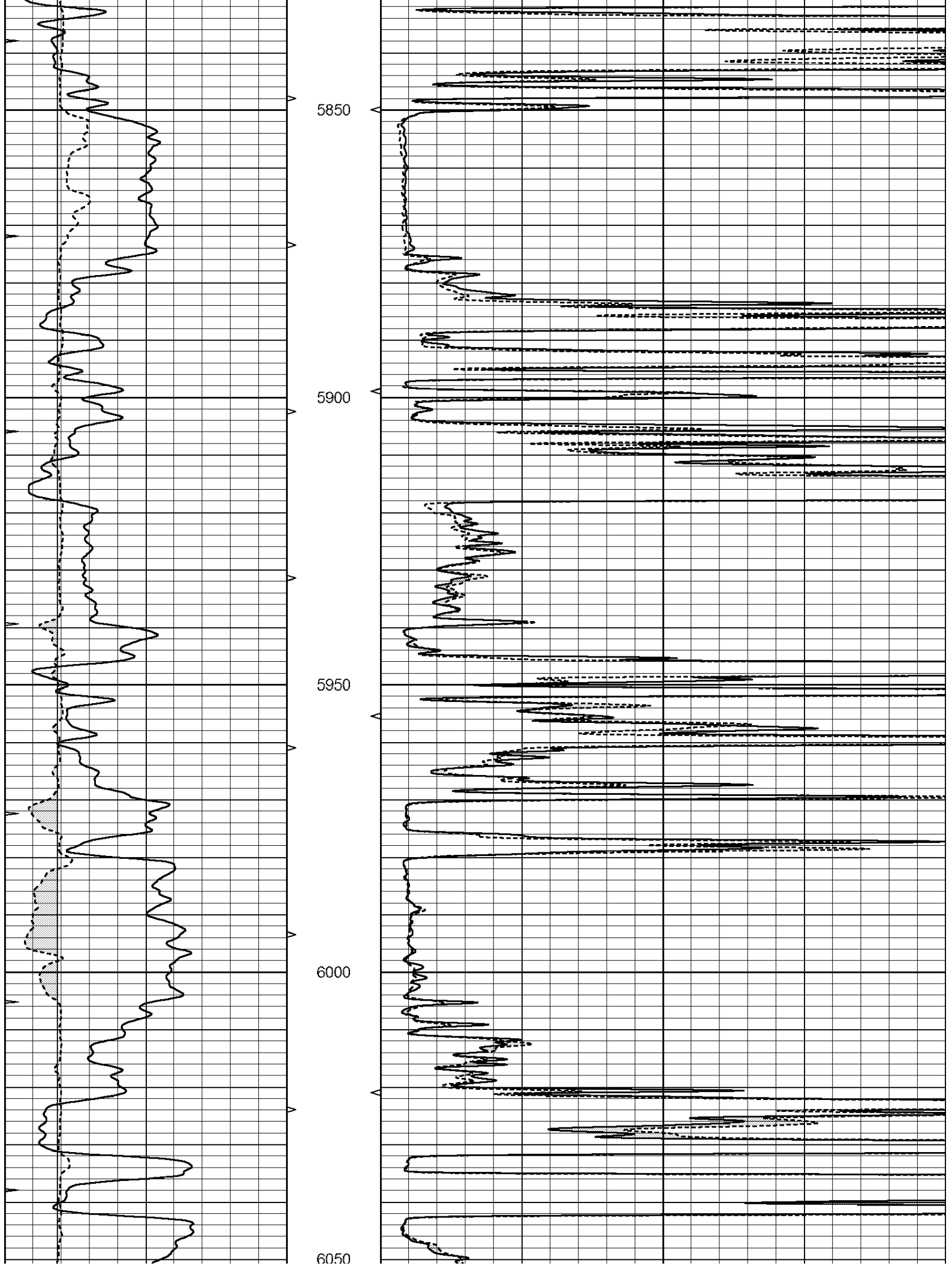
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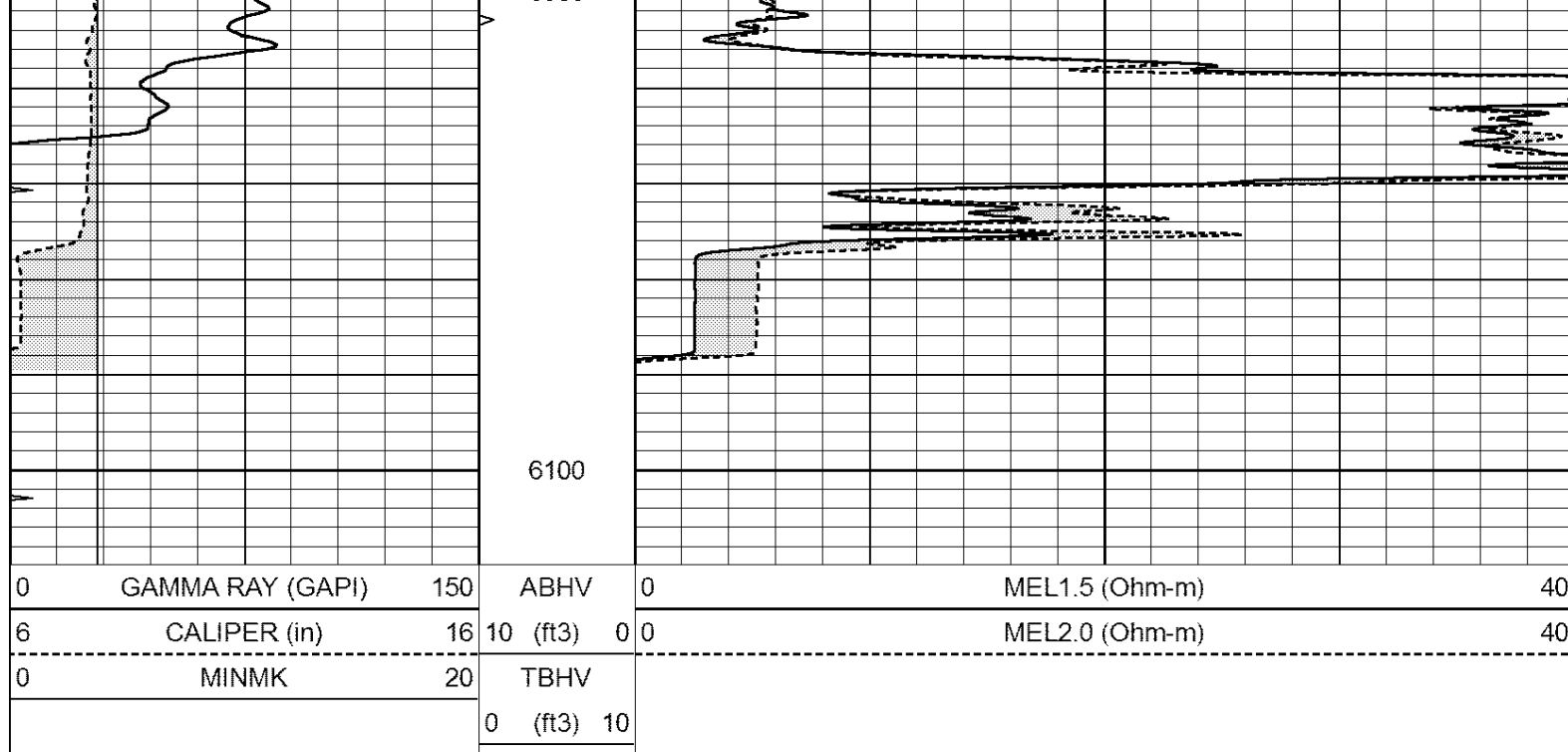
REPEAT SECTION

Database File: 409003pe.db
Dataset Pathname: pass5.5
Presentation Format: micro
Dataset Creation: Mon Oct 01 21:35:32 2012
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: 409685pe.db
 Dataset Pathname: pass6.4
 Dataset Creation: Mon Oct 01 22:55:04 2012

MICRO Calibration Report

Serial Number: MICRO5
 Tool Model: PROBE
 Performed: Thu Sep 27 01:32:28 2012

Caliper Calibration: Gain=4.000 Offset=-8.400

	Low Cal	High Cal
References	8.000	16.000
Readings	4.100	6.100

1.5" Calibration: Gain=36.000 Offset=-0.700

	Low Cal	High Cal
References	0.000	20.000
Readings	-0.002	0.981

2" Calibration: Gain=44.000 Offset=-0.400

	Low Cal	High Cal
References	0.000	20.000
Readings	0.002	0.898

Gamma Ray Calibration Report

Serial Number: GR4
 Tool Model: OPEN
 Performed: Sun Sep 30 07:06:53 2012

Calibrator Value: 200.0 GAPI

Background Reading:	0.0	cps
Calibrator Reading:	189.0	cps

Sensitivity: 1.9000 GAPI/cps