



MICRO LOG

Company MULL DRILLING COMPANY, INC.
 Well #1-3 HALLER
 Field WILDCAT
 County CLARK
 State KANSAS

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Location: 1867' FSL & 1890' FVL
 NE - SW - NE - SW
 API #: 15-025-21605-0000
 Permanent Datum GROUND LEVEL Elevation 2363
 Log Measured From KELLY BUSHING 12' A.G.L.
 Drilling Measured From KELLY BUSHING
 SEC 3 TWP 30S RGE 21W
 Other Services
 CDL/CNL/PE
 DIL/SONIC
 Elevation
 K.B. 2375
 D.F. 2373
 G.L. 2363

Date	12/17/18
Run Number	TWO
Depth Driller	6220
Depth Logger	6219
Bottom Logged Interval	6203
Top Log Interval	4100
Casing Driller	8 5/8" @ 606'
Casing Logger	606
Bit Size	7 7/8"
Type Fluid in Hole	CHEMICAL MUD
Density / Viscosity	9.2/59
pH / Fluid Loss	11.0/6.8
Source of Sample	FLOWLINE
Rim @ Meas. Temp	.600 @ 80F
Rmf @ Meas. Temp	.450 @ 80F
Rmc @ Meas. Temp	.720 @ 80F
Source of Rmf / Rmc	MEASUREMENT
Rim @ BHT	.253 @ 136F
Time Circulation Stopped	5.5 HOURS
Time Logger on Bottom	5:00 P.M.
Maximum Recorded Temperature	136F
Equipment Number	922339
Location	HAYS, KANSAS
Recorded By	JEFF LUEBBERS
Witnessed By	KEVIN KESSLER

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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

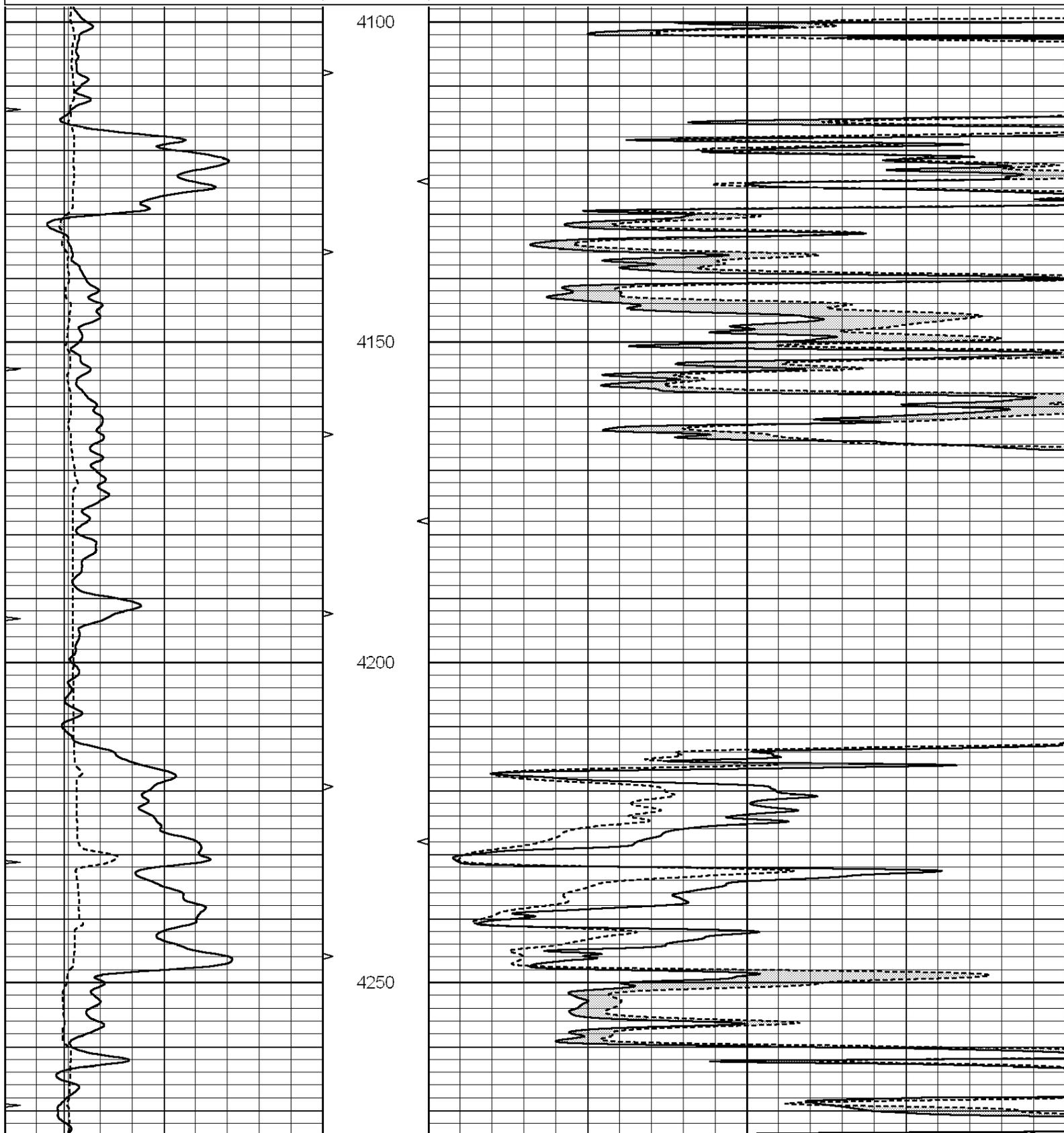
THANK YOU FOR USING ELI WIRELINE HAYS, KANSAS (785) 628-6395
 DIRECTIONS
 BUCKLIN, KS., 7S. ON HWY 34 TO "RD. B", 1 1/4E., N. INTO

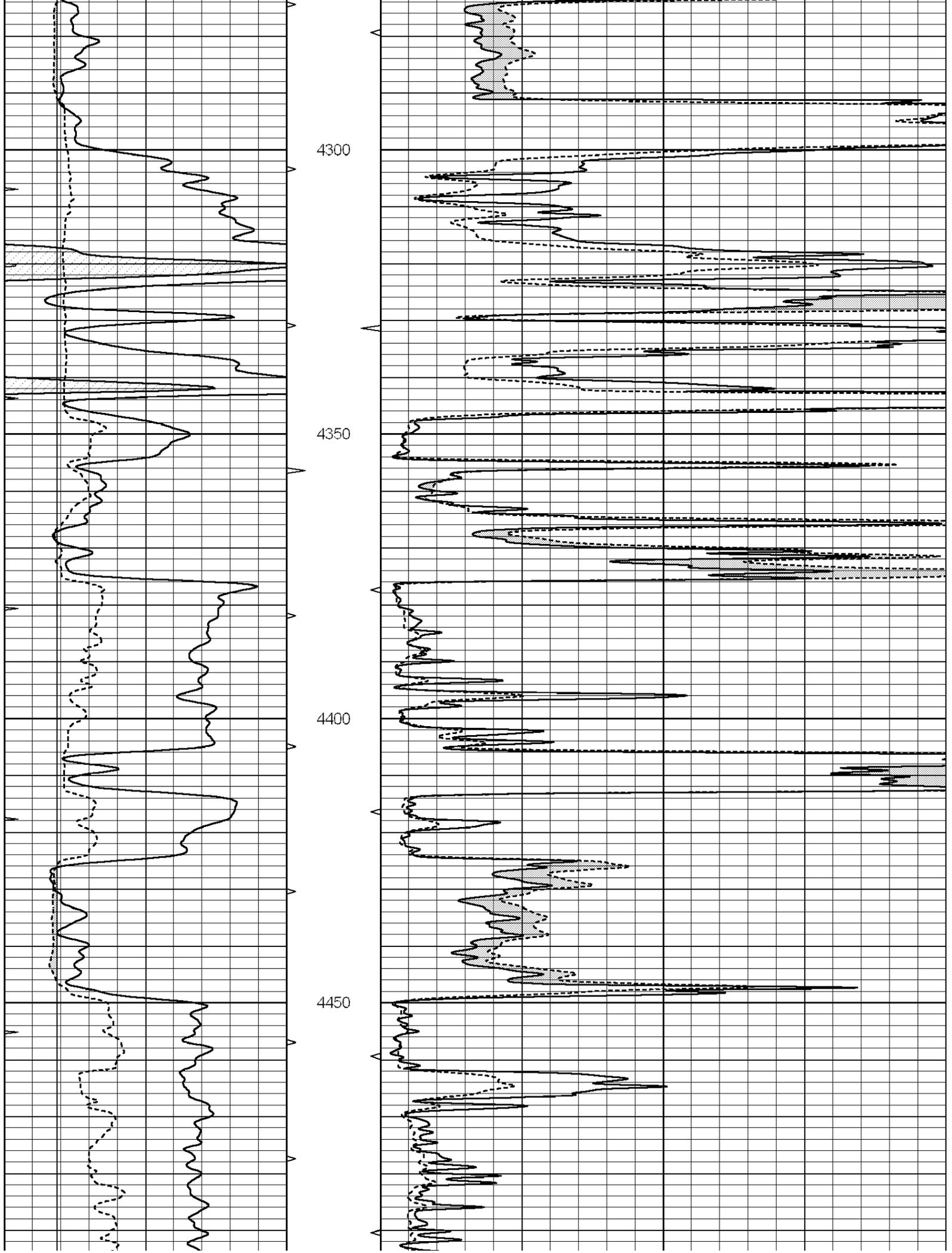


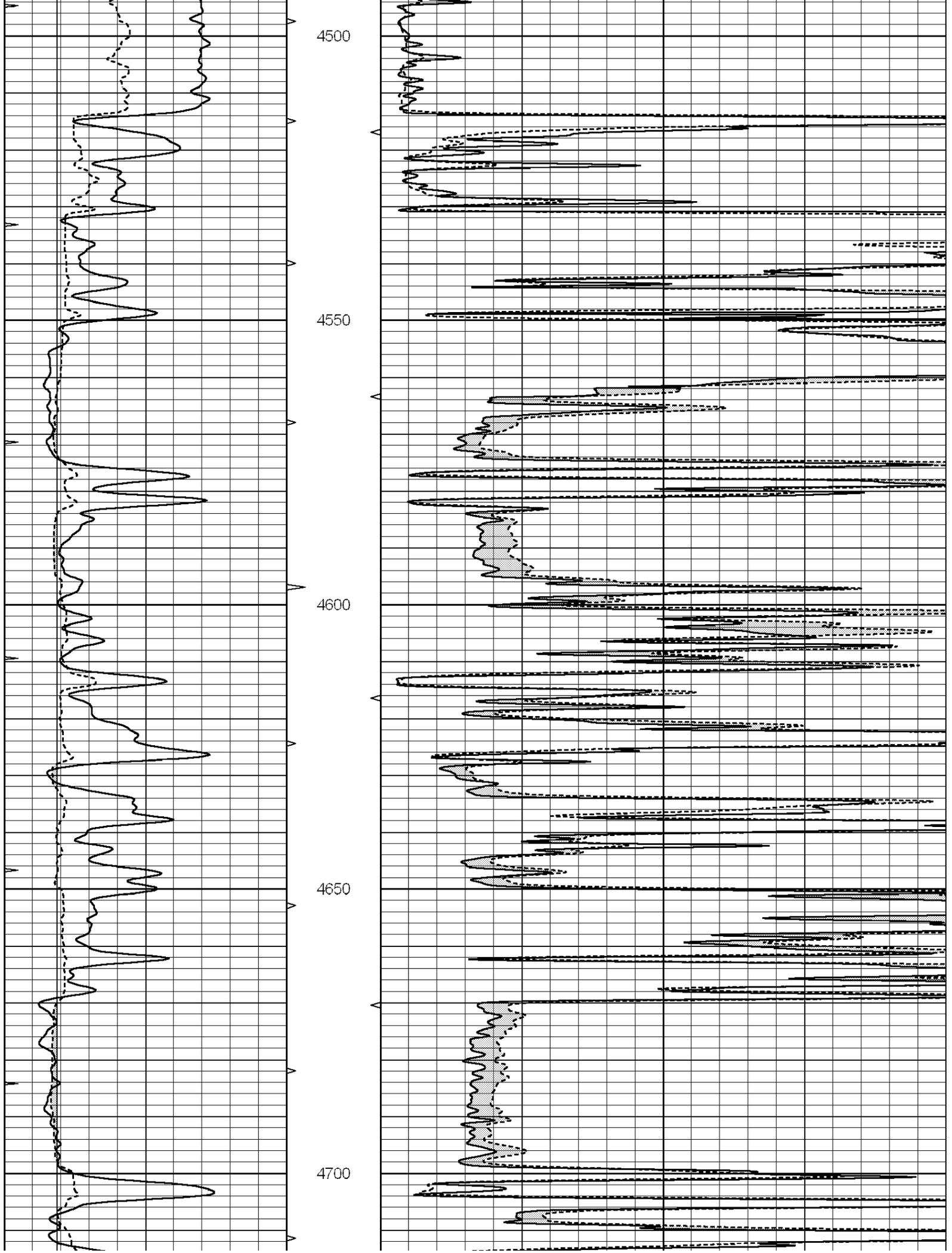
MAIN SECTION

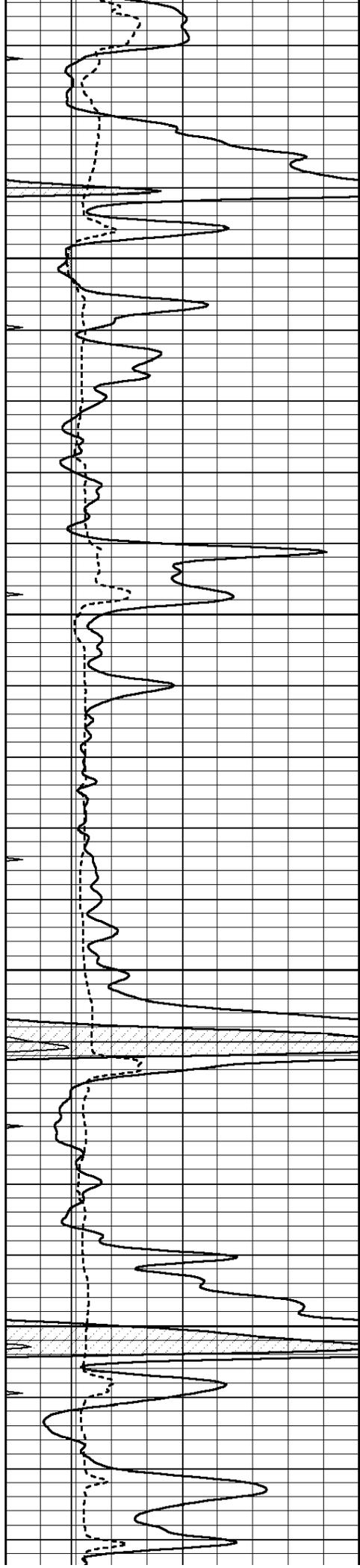
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 Dataset Pathname: pass6.5
 Presentation Format: micro
 Dataset Creation: Mon Dec 17 18:32:38 2018
 Charted by: Depth in Feet scaled 1:240

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







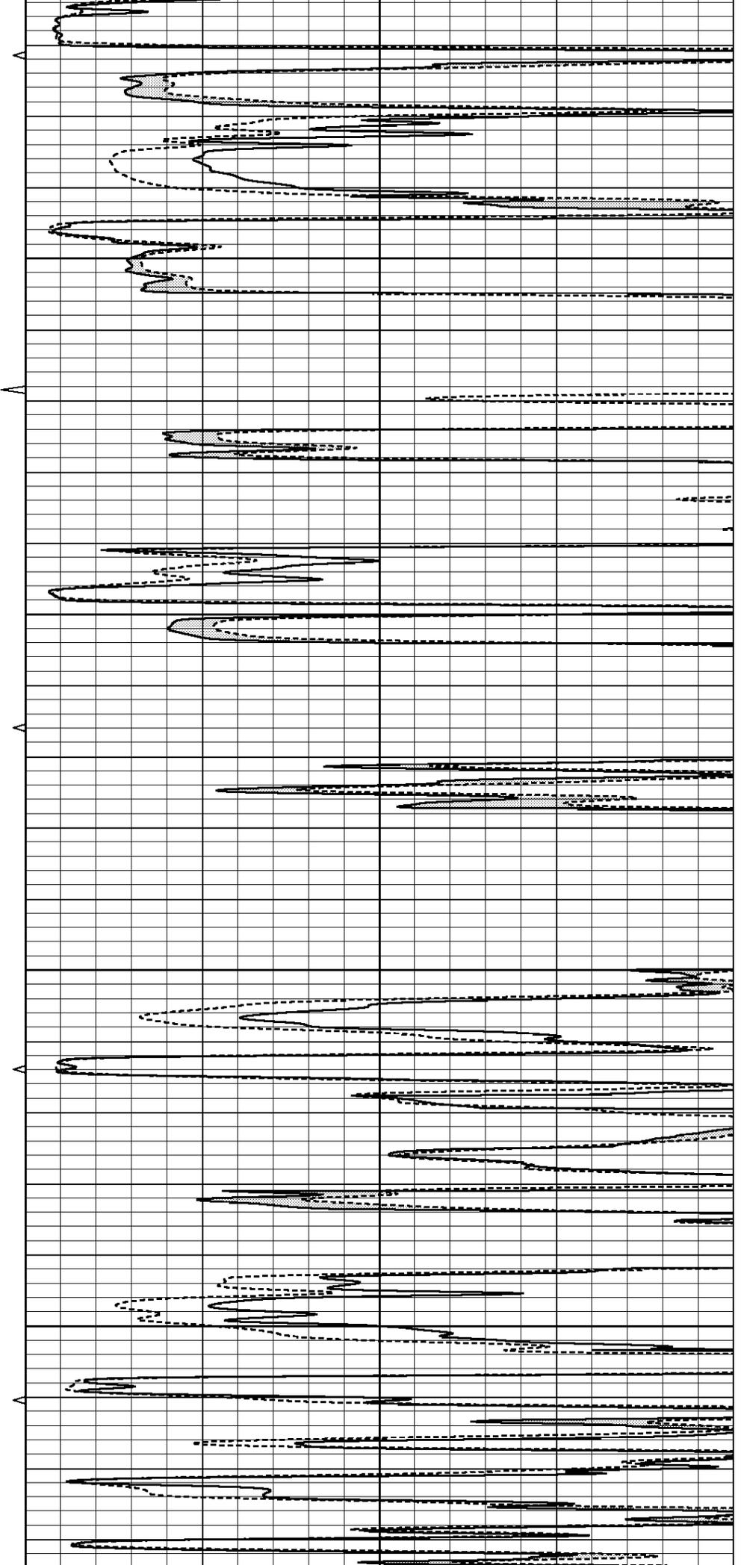


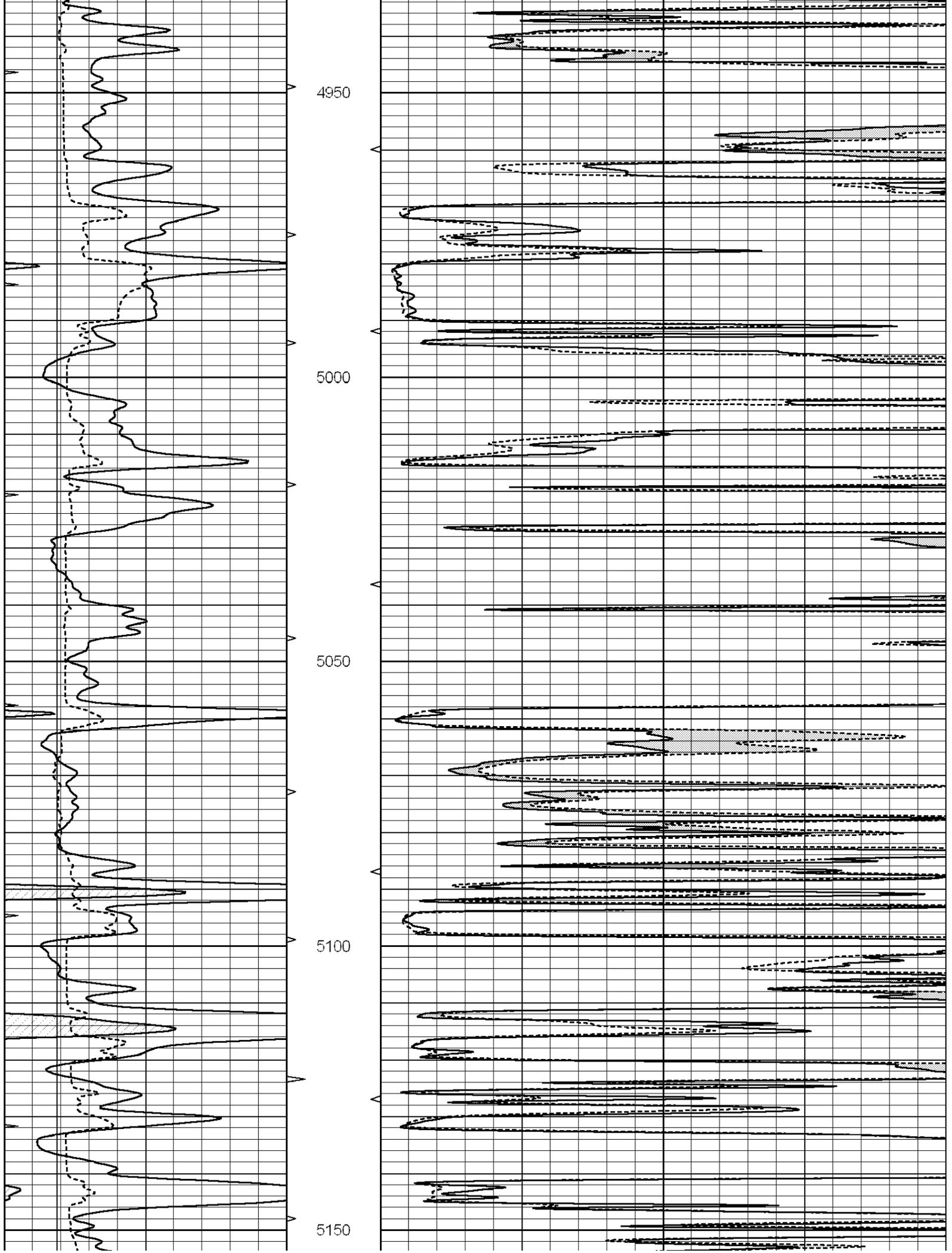
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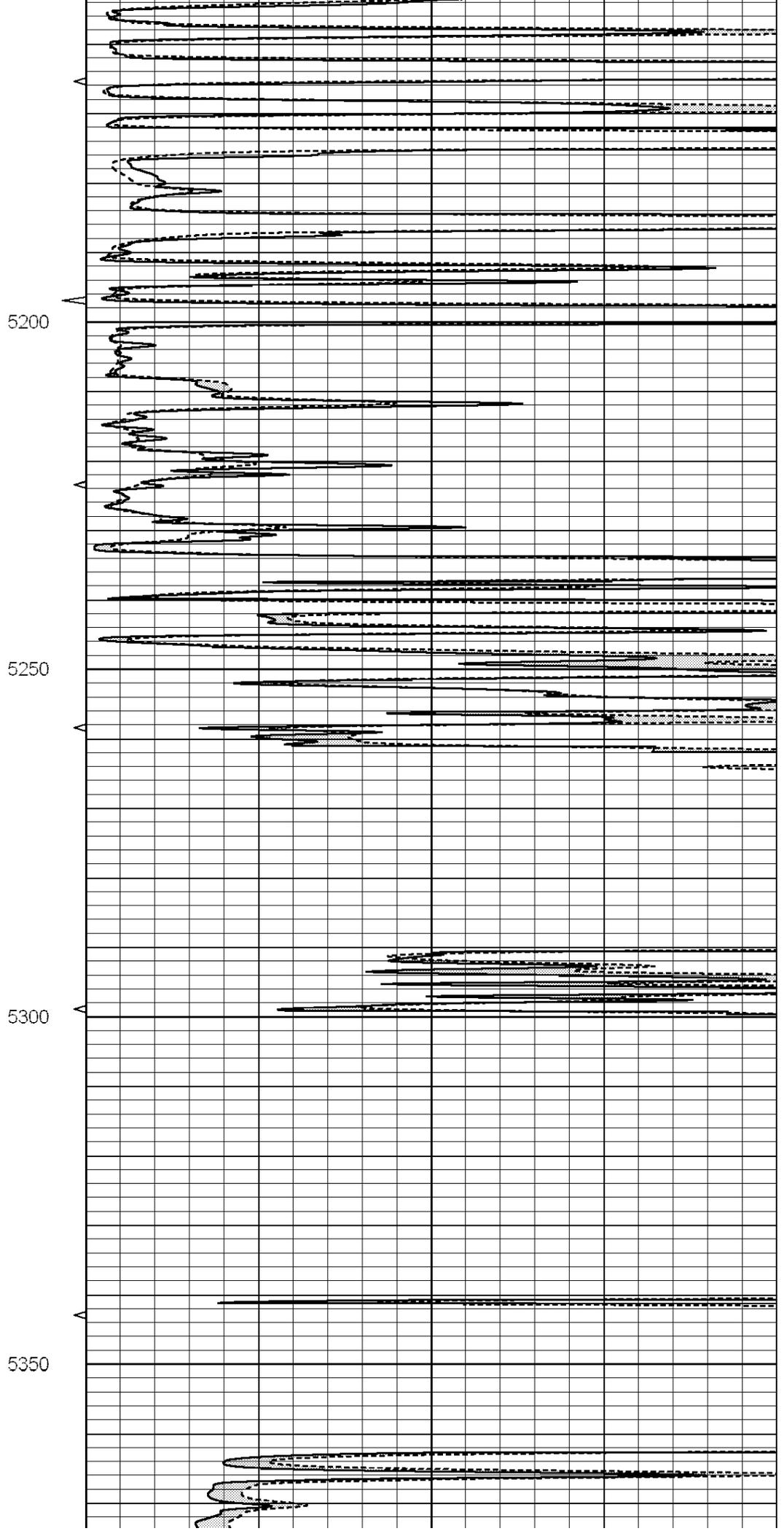
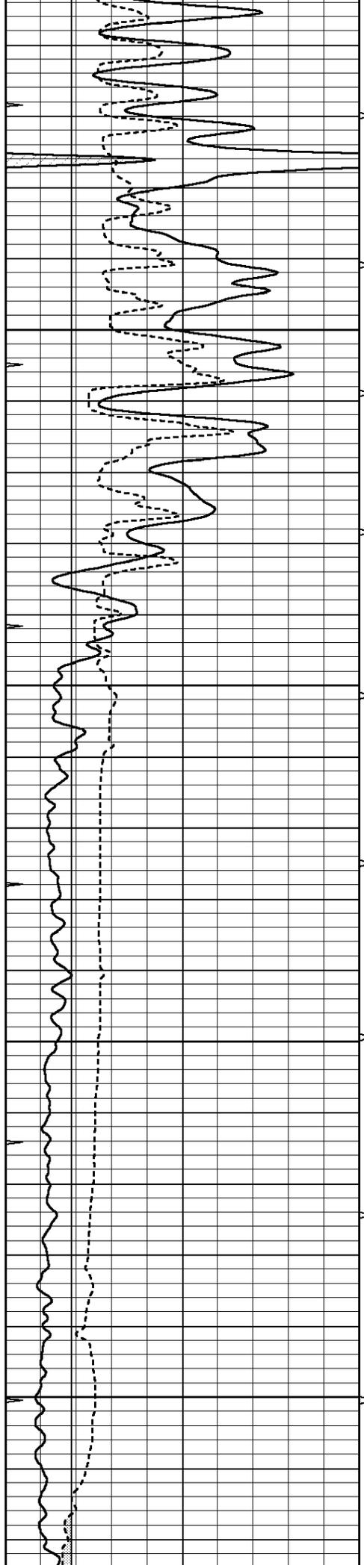
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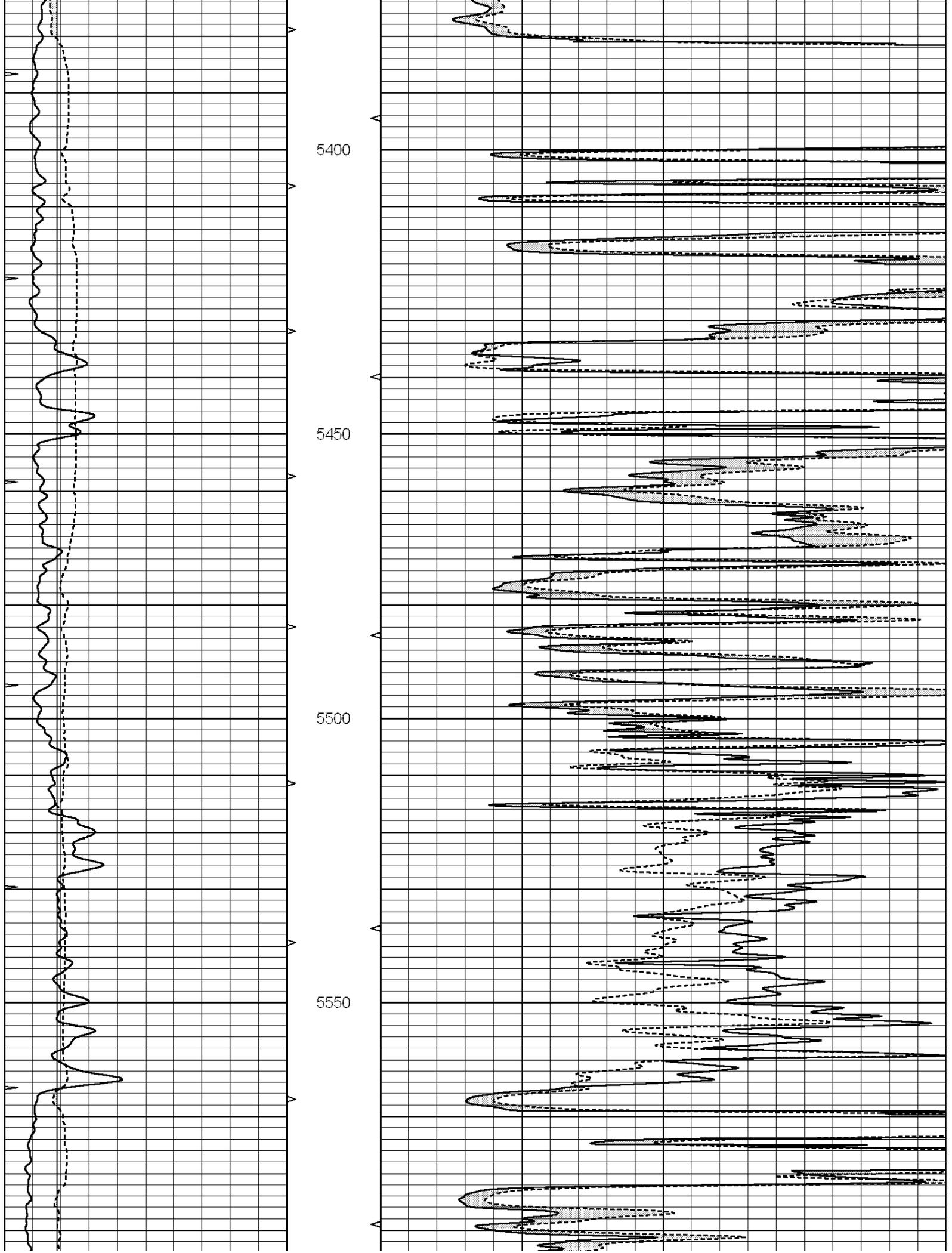
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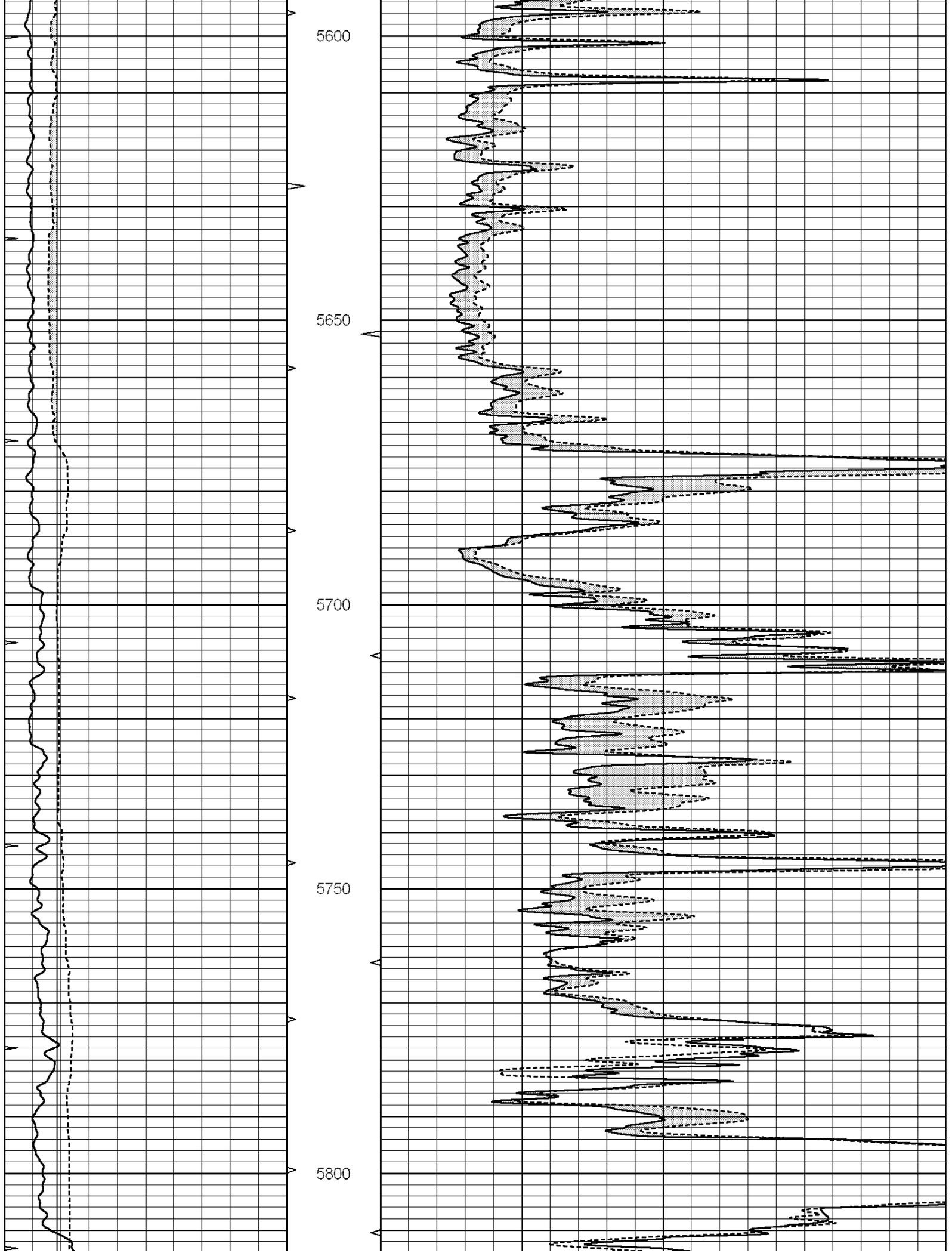
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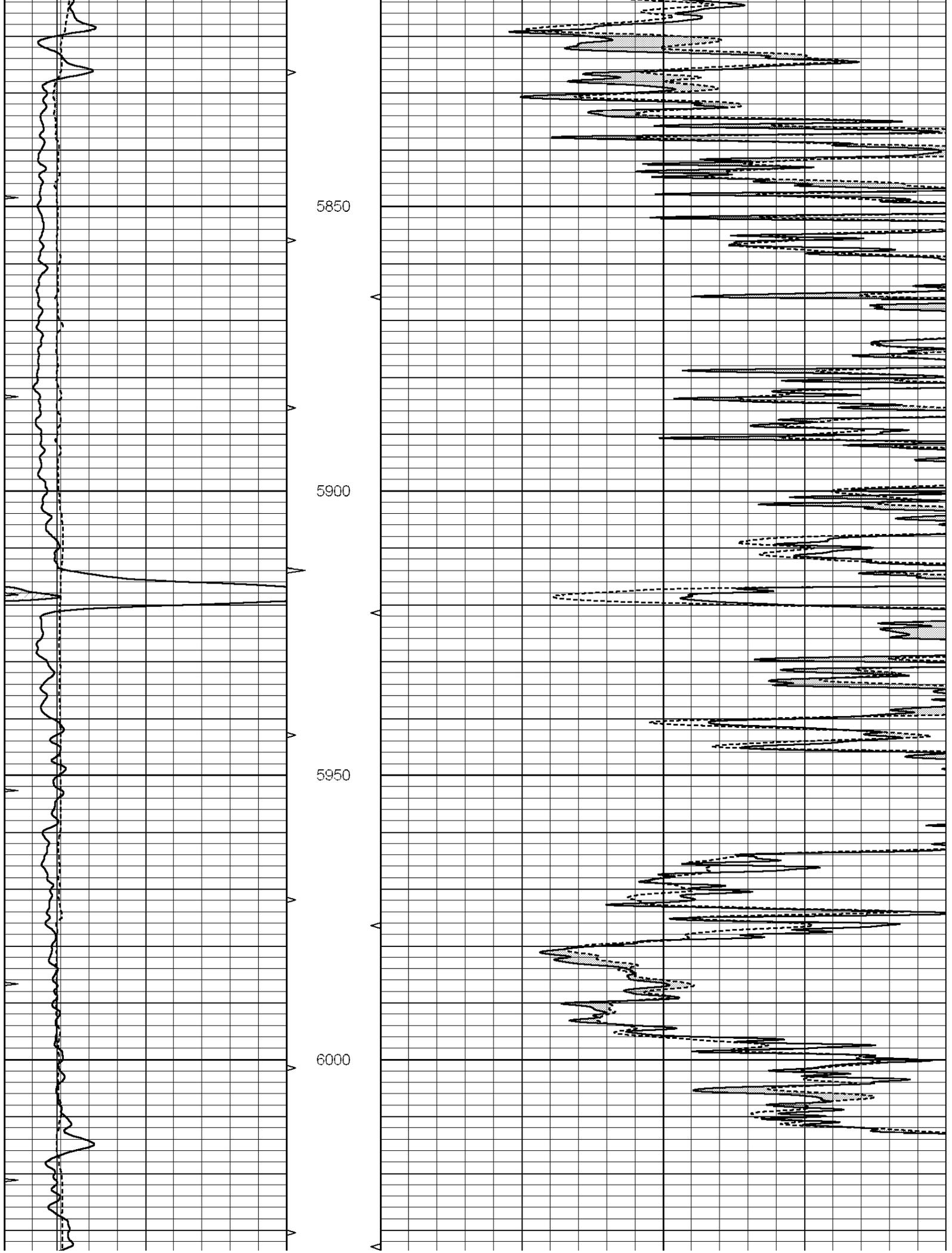


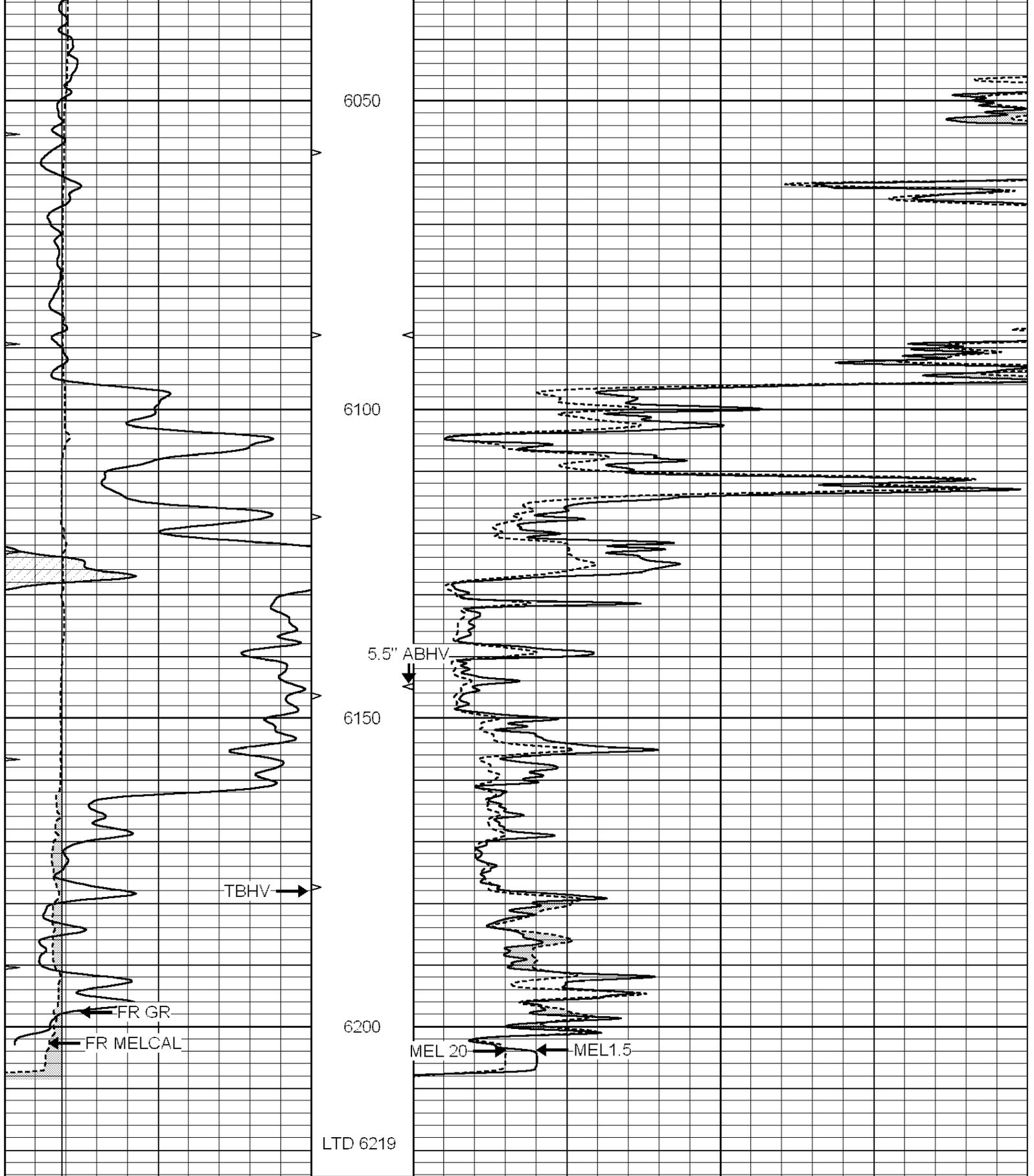












LTD 6219

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

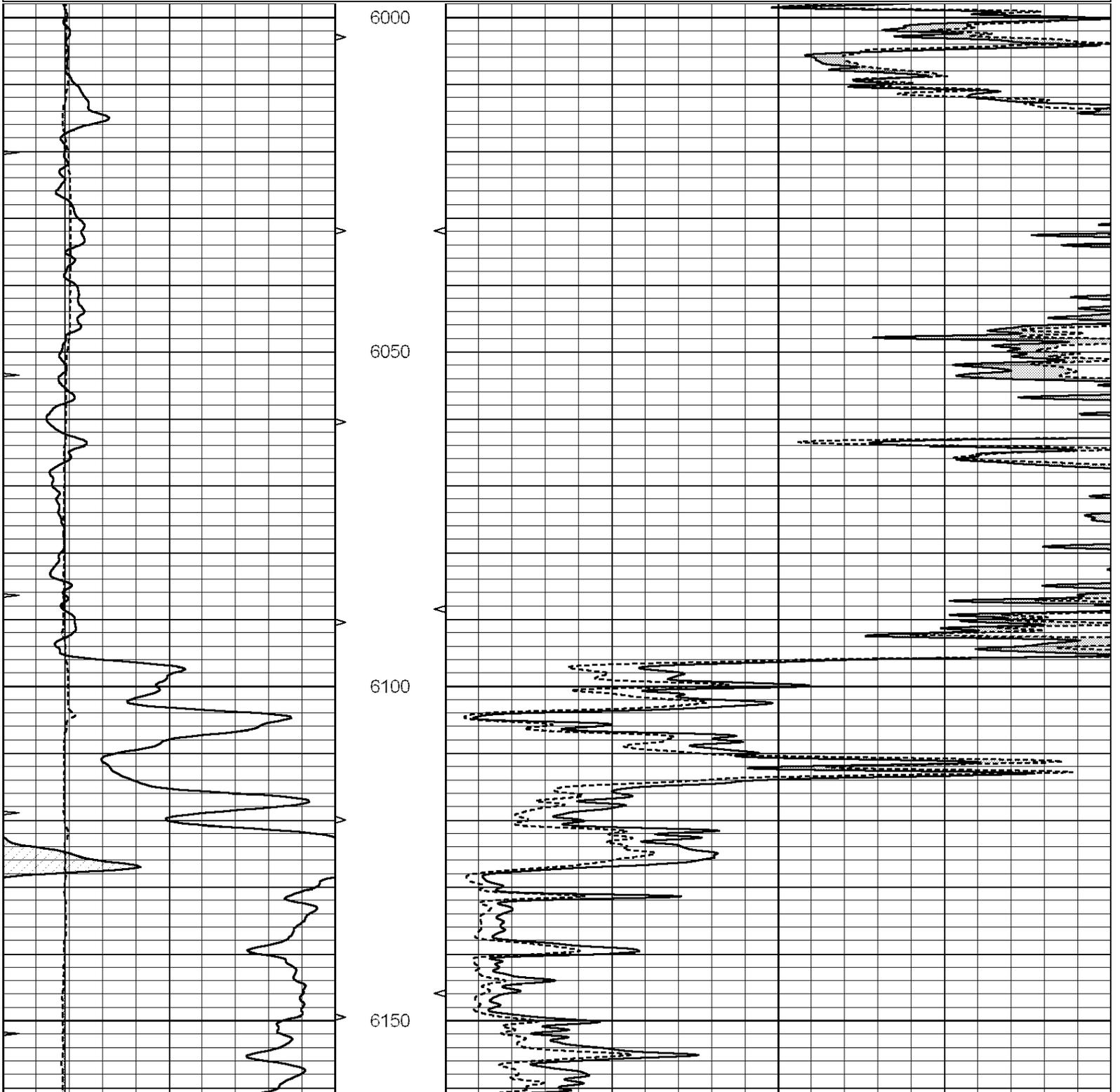


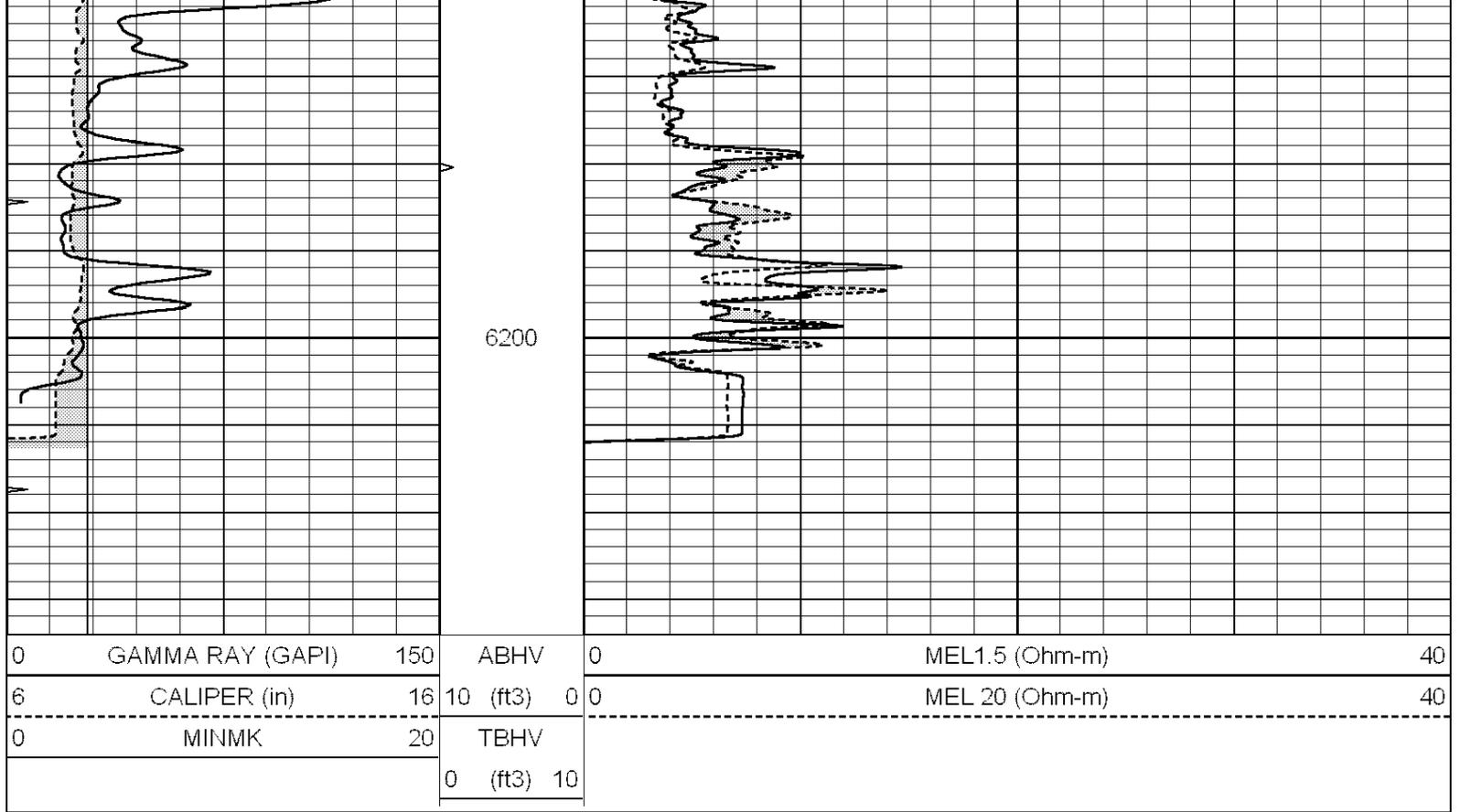


REPEAT SECTION

Database File: 3073pe.db
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 Presentation Format: micro
 Dataset Creation: Mon Dec 17 18:39:27 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	MEL 20 (Ohm-m)	40
0	MINMK	20	TBHV			
			0 (ft3)	10		





Calibration Report

Database File: 3073pe.db
 Dataset Pathname: pass6.5
 Dataset Creation: Mon Dec 17 18:32:38 2018

MICRO Calibration Report

Serial Number: 070912
 Tool Model: ProbeN
 Performed: Mon Dec 17 16:34:54 2018

Caliper Calibration: Gain=4.102 Offset=-0.621

References	Low Cal	High Cal
Readings	7.500	18.000
	1.980	4.540

1.5" Calibration: Gain=45.000 Offset=-1.000

References	Low Cal	High Cal
Readings	0.000	20.000
	0.002	1.239

2" Calibration: Gain=40.000 Offset=-0.500

References	Low Cal	High Cal
Readings	0.000	20.000
	0.003	1.075

Gamma Ray Calibration Report

Serial Number: 110959
 Tool Model: OPEN_GR
 Performed: Mon Dec 17 16:17:02 2018

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps

Calibrator Reading:

1.0

cps

Sensitivity:

0.2400

GAPI/cps