



MICRO LOG

Company YOUNGER ENERGY COMPANY
 Well GINGRICH UNIT #1-20
 Field BENSON NORTHEAST
 County PAWNEE
 State KANSAS

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Location: API # : 15-145-21847-0000
 2500' FSL & 400' FWL
 NE - NW - NW - SW
 SEC 20 TWP 23S RGE 15W
 Permanent Datum GROUND LEVEL Elevation 2038
 Log Measured From KELLY BUSHING 8' A.G.L.
 Drilling Measured From KELLY BUSHING
 Other Services
 CDL/CNL/PE
 DIL/SONIC
 Elevation
 K.B. 2046
 D.F. 2044
 G.L. 2038

Date	3/1/19		
Run Number	TWO		
Depth Driller	4205		
Depth Logger	4204		
Bottom Logged Interval	4188		
Top Log Interval	3200		
Casing Driller	8 5/8"@989'		
Casing Logger	989		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 7,000 PPM	
Density / Viscosity	9.5/65		
pH / Fluid Loss	9.5/11.2		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	.600@60F		
Rmf @ Meas. Temp	.450@60F		
Rmc @ Meas. Temp	.720@60F		
Source of Rmf / Rmc	MEASUREMENT		
Rim @ BHT	.305@118F		
Time Circulation Stopped	4 HOURS		
Time Logger on Bottom	10:30 P.M.		
Maximum Recorded Temperature	118F		
Equipment Number	922339		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	KEITH REAVIS		

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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

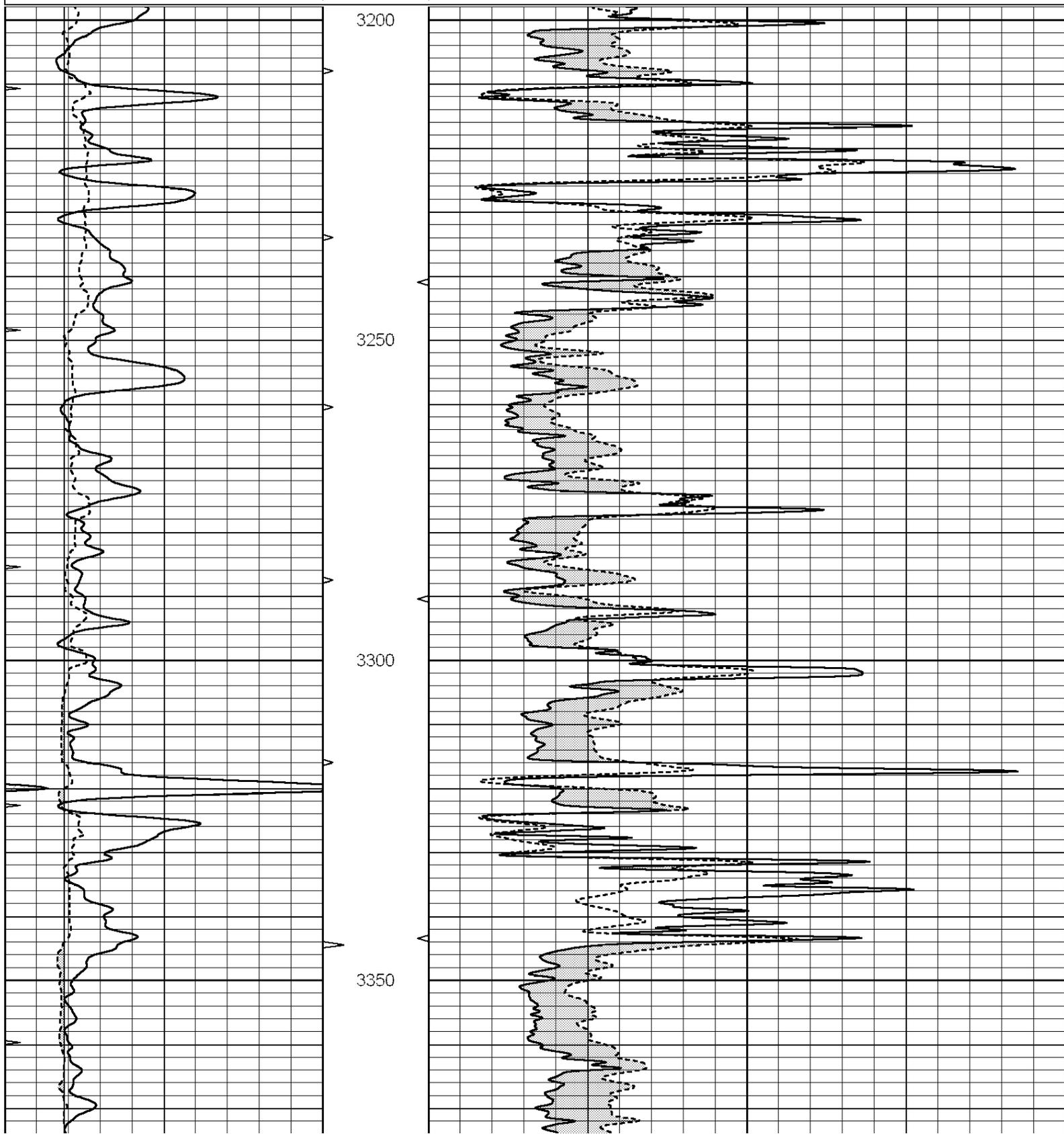
THANK YOU FOR USING ELI WIRELINE HAYS, KANSAS (785) 628-6395
 DIRECTIONS
 LARNED, KS., EAST ON K-19 TO (" RD. 40" MACKSVILLE BLKTOP) 8S. TO "RD. D", 2W., 1/2S., E. INTO

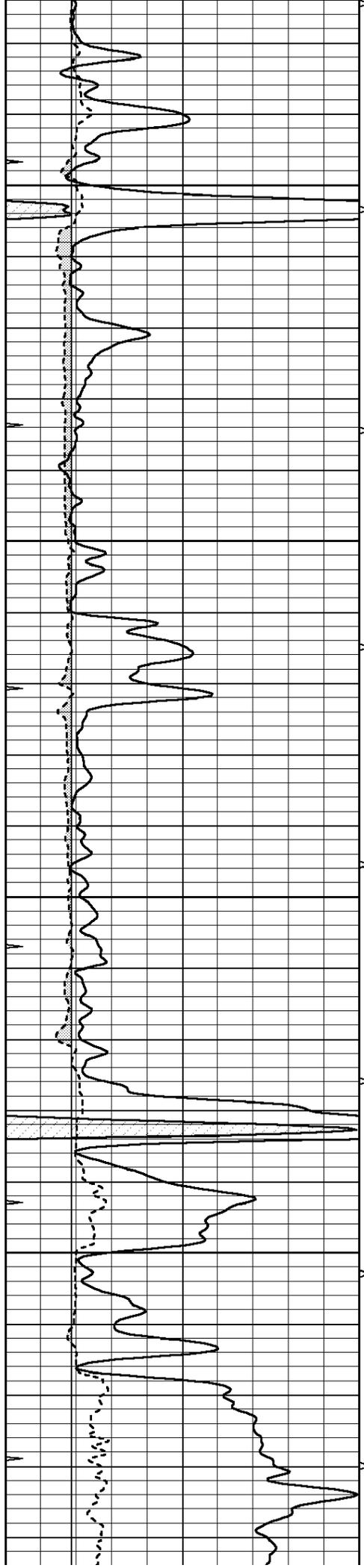


MAIN SECTION

Database File: 3347pe.db
 Dataset Pathname: pass6.4
 Presentation Format: micro
 Dataset Creation: Fri Mar 01 22:56:13 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	MEL 20 (Ohm-m)	40
0	MINMK	20	TBHV			
			0 (ft3)	10		



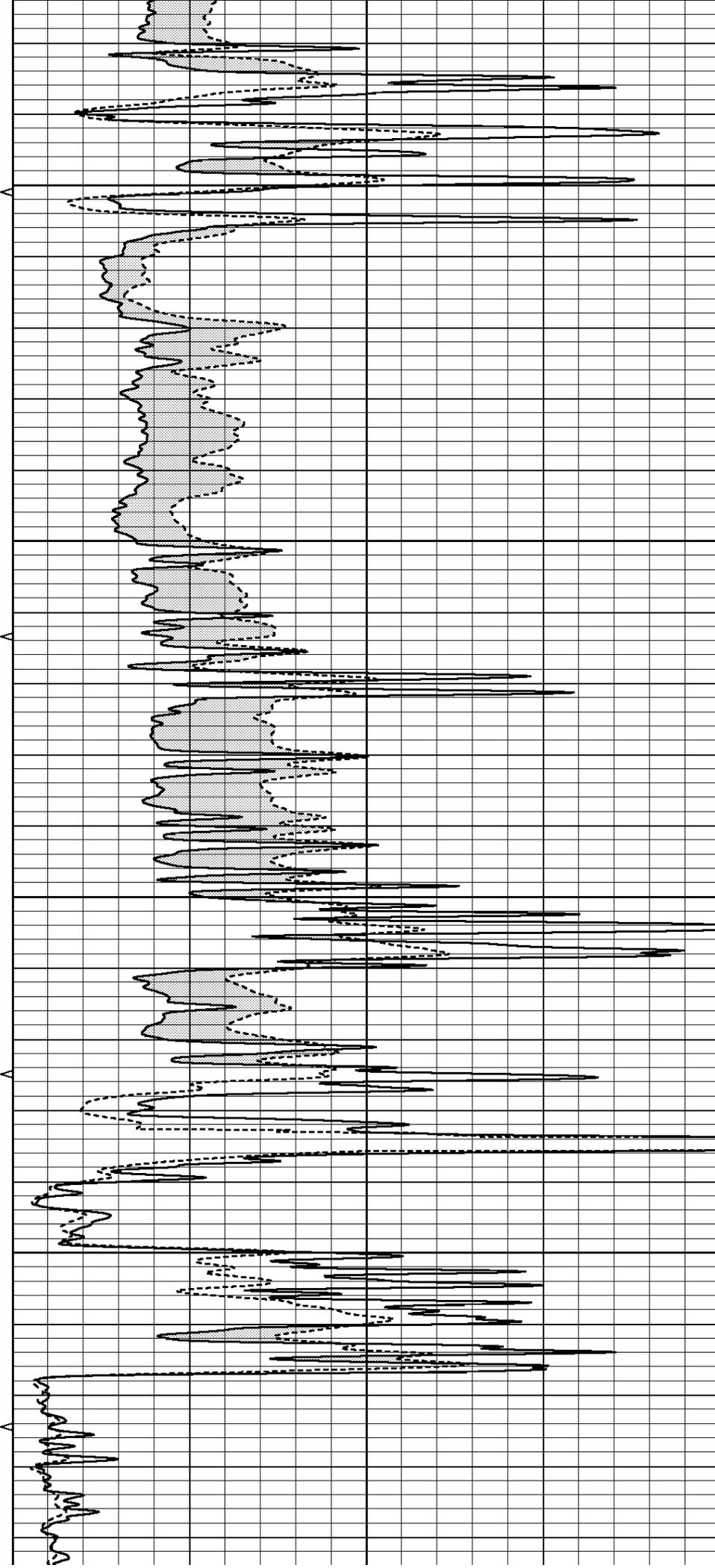


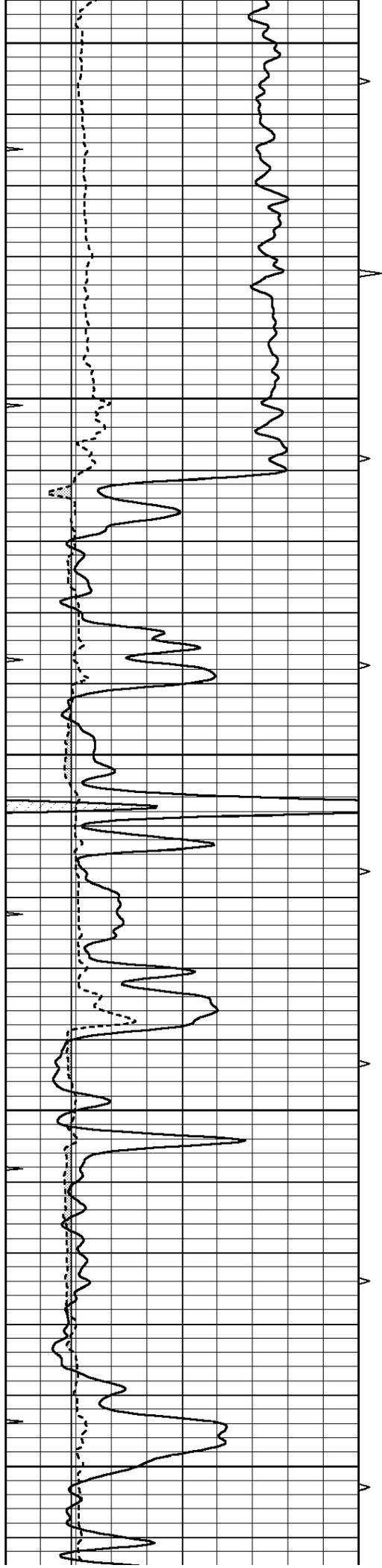
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3450

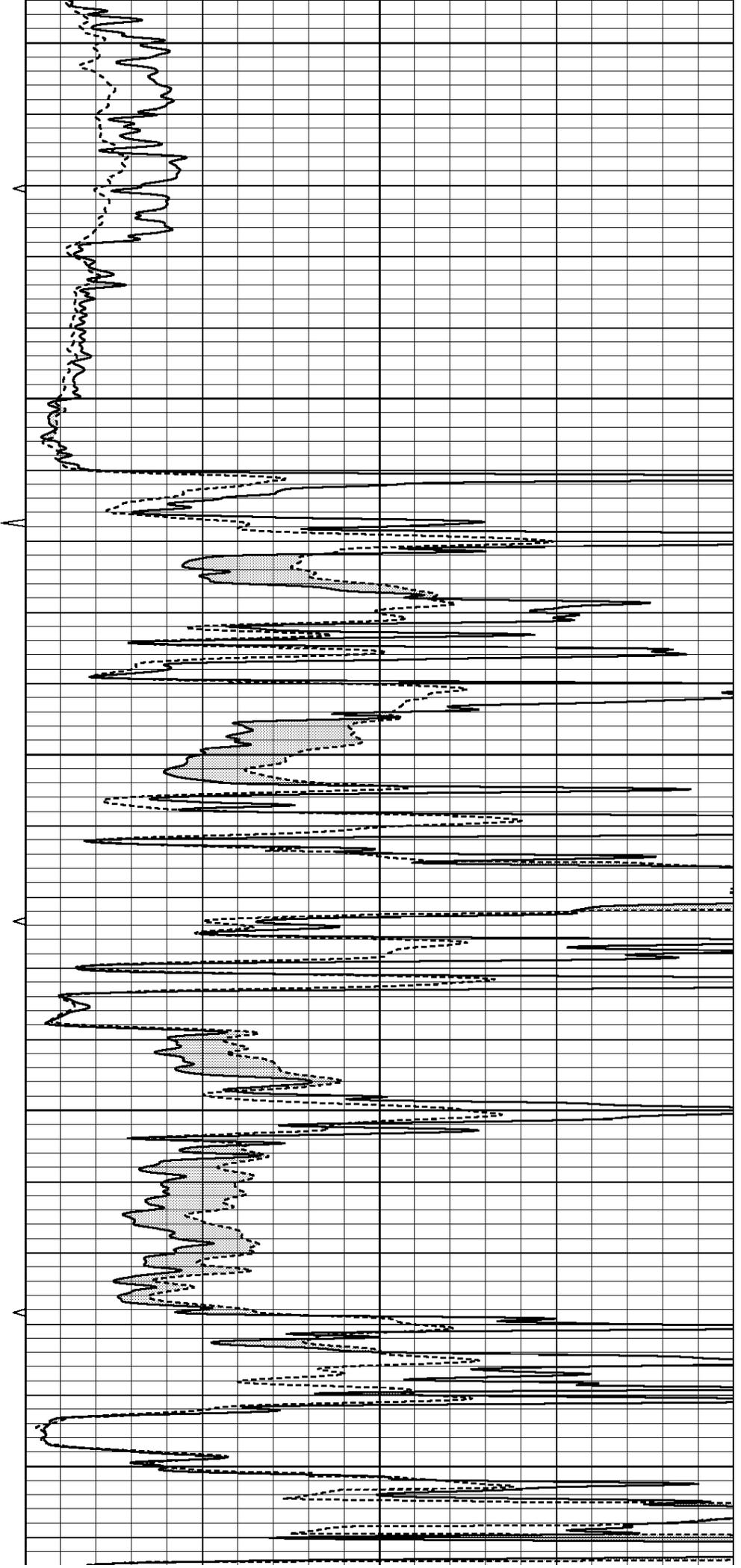
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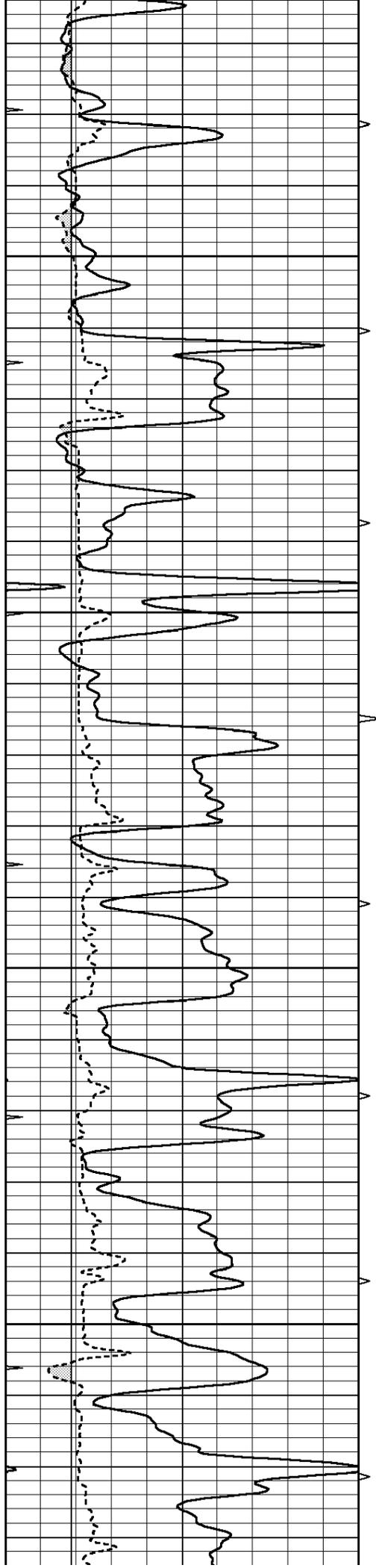
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3600
3650
3700
3750
3800



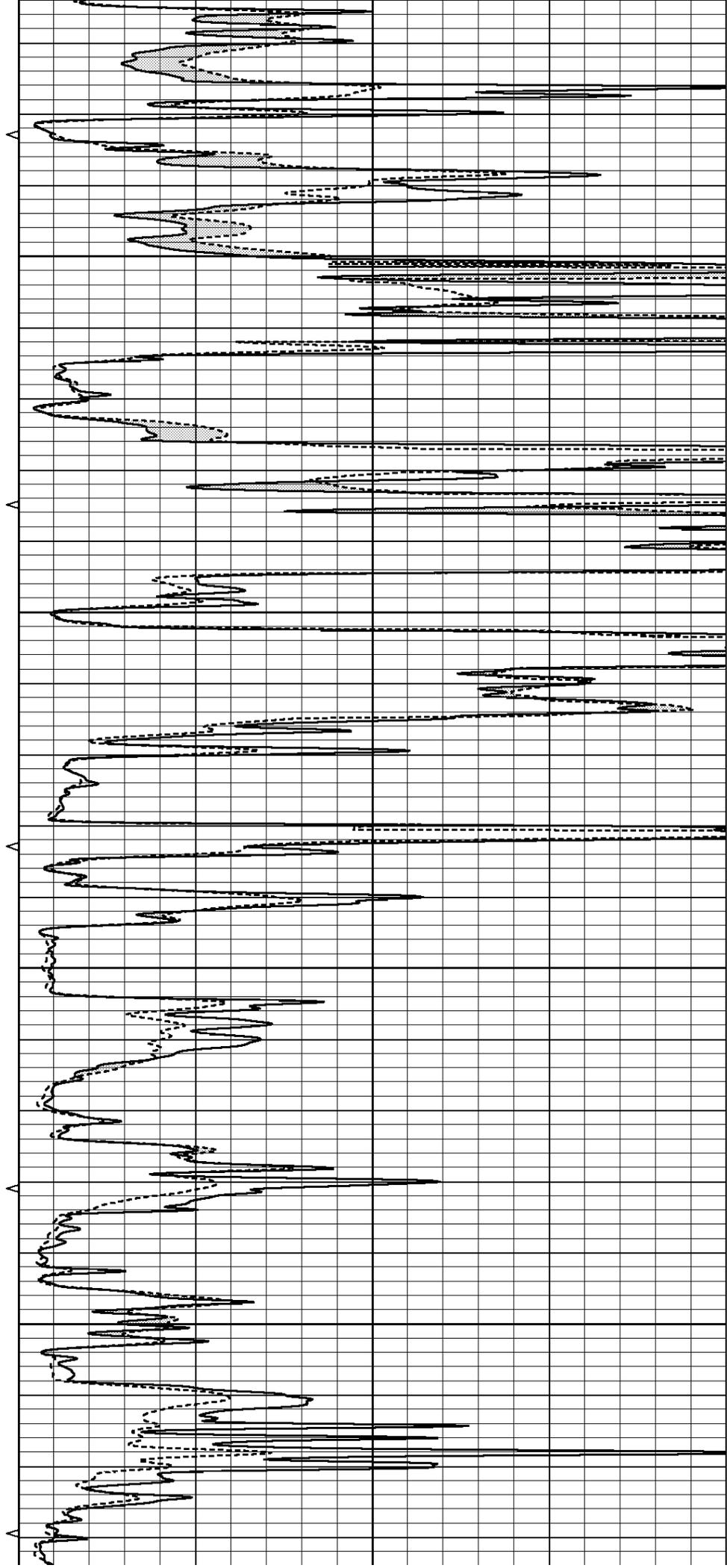


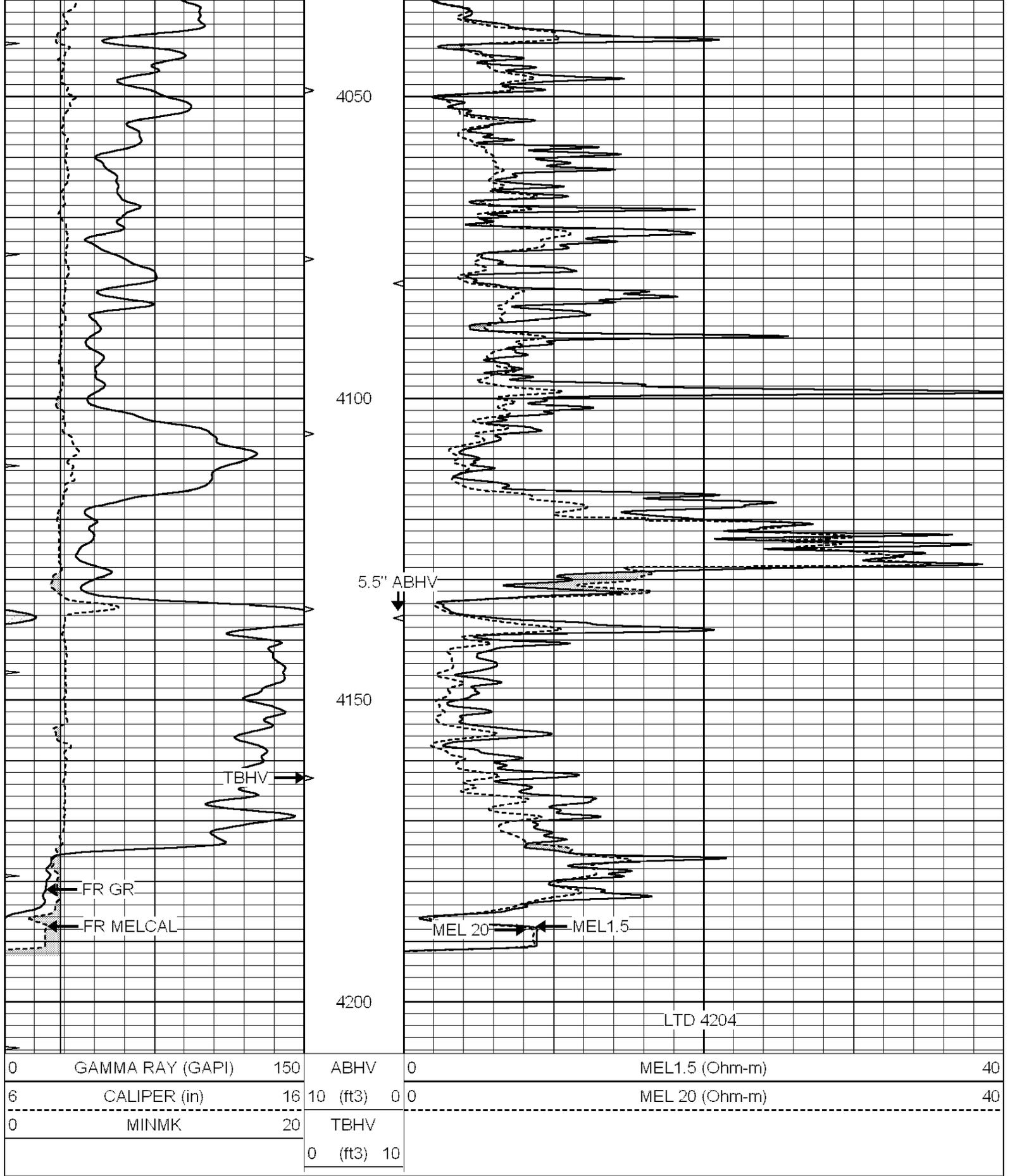
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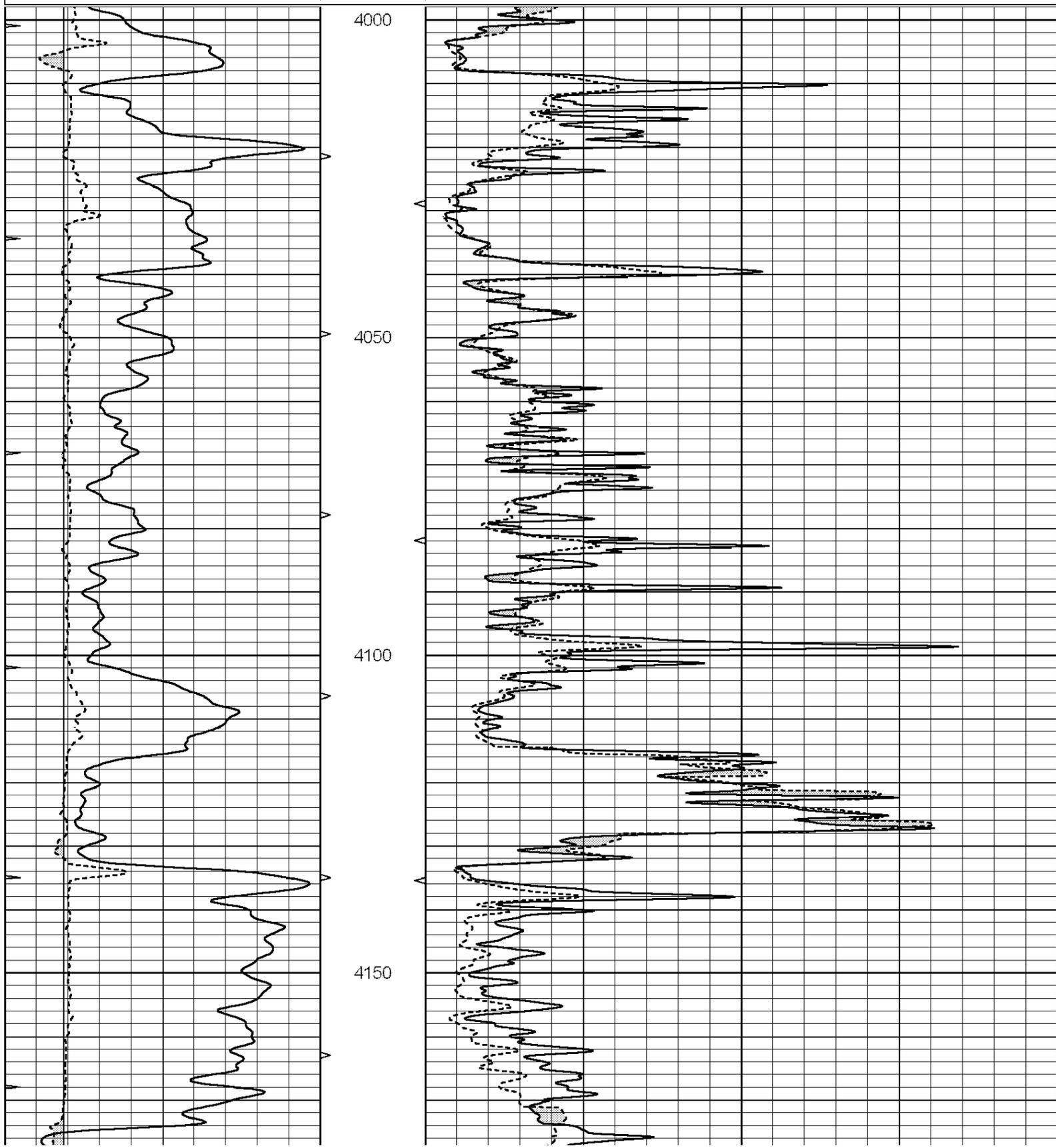


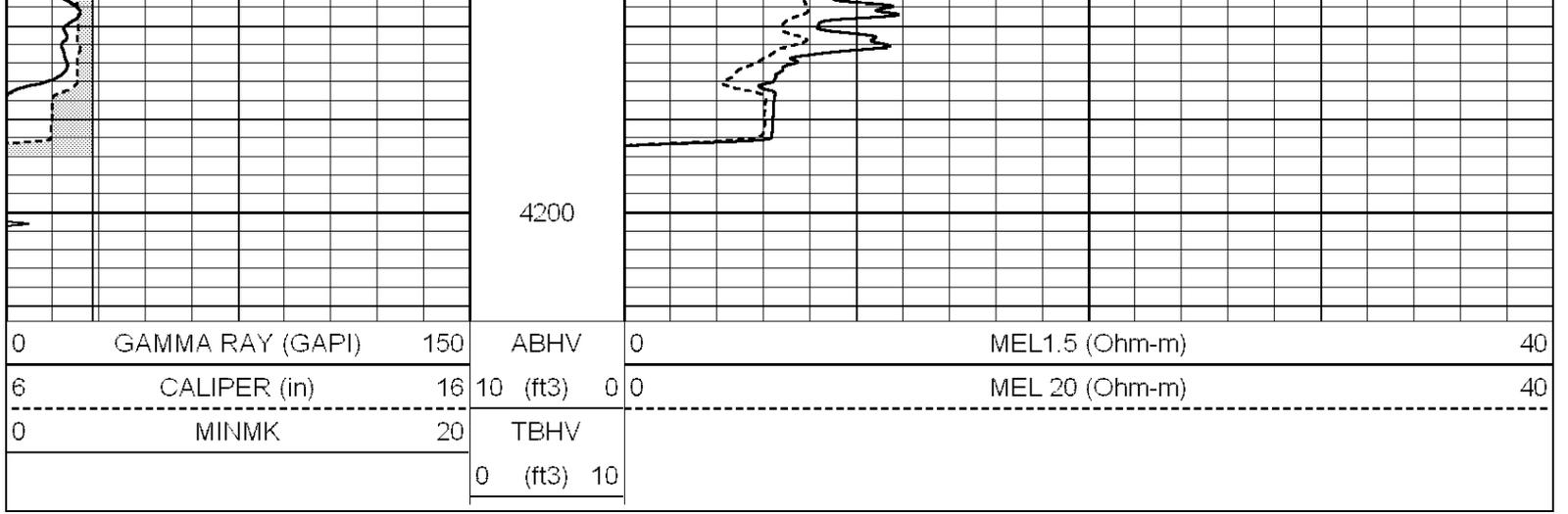


REPEAT SECTION

Database File: 3347pe.db
 Dataset Pathname: pass5.5
 Presentation Format: micro
 Dataset Creation: Fri Mar 01 23:06:58 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	MEL 20 (Ohm-m)	40
0	MINMK	20	TBHV			
			0 (ft3)	10		





Calibration Report

Database File: 3347pe.db
 Dataset Pathname: pass6.4
 Dataset Creation: Fri Mar 01 22:56:13 2019

MICRO Calibration Report

Serial Number:	070911	
Tool Model:	ProbeN	
Performed:	Fri Mar 01 22:14:41 2019	
Caliper Calibration:	Gain=6.667	Offset=1.333
References	Low Cal 8.000	High Cal 18.000
Readings	1.000	2.500
1.5" Calibration:	Gain=30.000	Offset=-1.000
References	Low Cal 0.000	High Cal 20.000
Readings	0.001	1.240
2" Calibration:	Gain=65.000	Offset=-2.500
References	Low Cal 0.000	High Cal 20.000
Readings	0.001	1.076

Gamma Ray Calibration Report

Serial Number:	110959	
Tool Model:	OPEN_GR	
Performed:	Sun Feb 24 15:46:09 2019	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.2400	GAPI/cps