



**COMPLETION  
& PRODUCTION  
SERVICES CO.**

**MICRO  
LOG**

Company SHELBY RESOURCES LLC.  
Well ARKANSAS RIVER UNIT #1-3  
Field  
County PAWNEE  
State KANSAS

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Well ARKANSAS RIVER UNIT #1-3  
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County PAWNEE State KANSAS

Location: API # : 15-145-21792-0000  
2206' FNL & 1382' FEL  
SEC 3 TWP 22S RGE 16W  
Permanent Datum GROUND LEVEL Elevation 1986  
Log Measured From KELLY BUSHING 13' A.G.L.  
Drilling Measured From KELLY BUSHING  
Other Services  
CDL/CNL  
DIL/SON  
Elevation  
K.B. 1999  
D.F. 1997  
G.L. 1986

Date	12/14/14		
Run Number	TWO		
Depth Driller	4100		
Depth Logger	4101		
Bottom Logged Interval	4077		
Top Log Interval	3100		
Casing Driller	8 5/8" @ 1039		
Casing Logger	1038		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 5200 PPM	
Density / Viscosity	9.2/52		
pH / Fluid Loss	11.0/7.2		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.80 @ 60F		
Rmt @ Meas. Temp	.60 @ 60F		
Rmc @ Meas. Temp	.96 @ 60F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.43 @ 117F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	117F		
Equipment Number	4010		
Location	HAYS, KANSAS		
Recorded By	JASON CAPPELLUCCI		
Witnessed By	JEREMY SCHWARTZ		

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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**

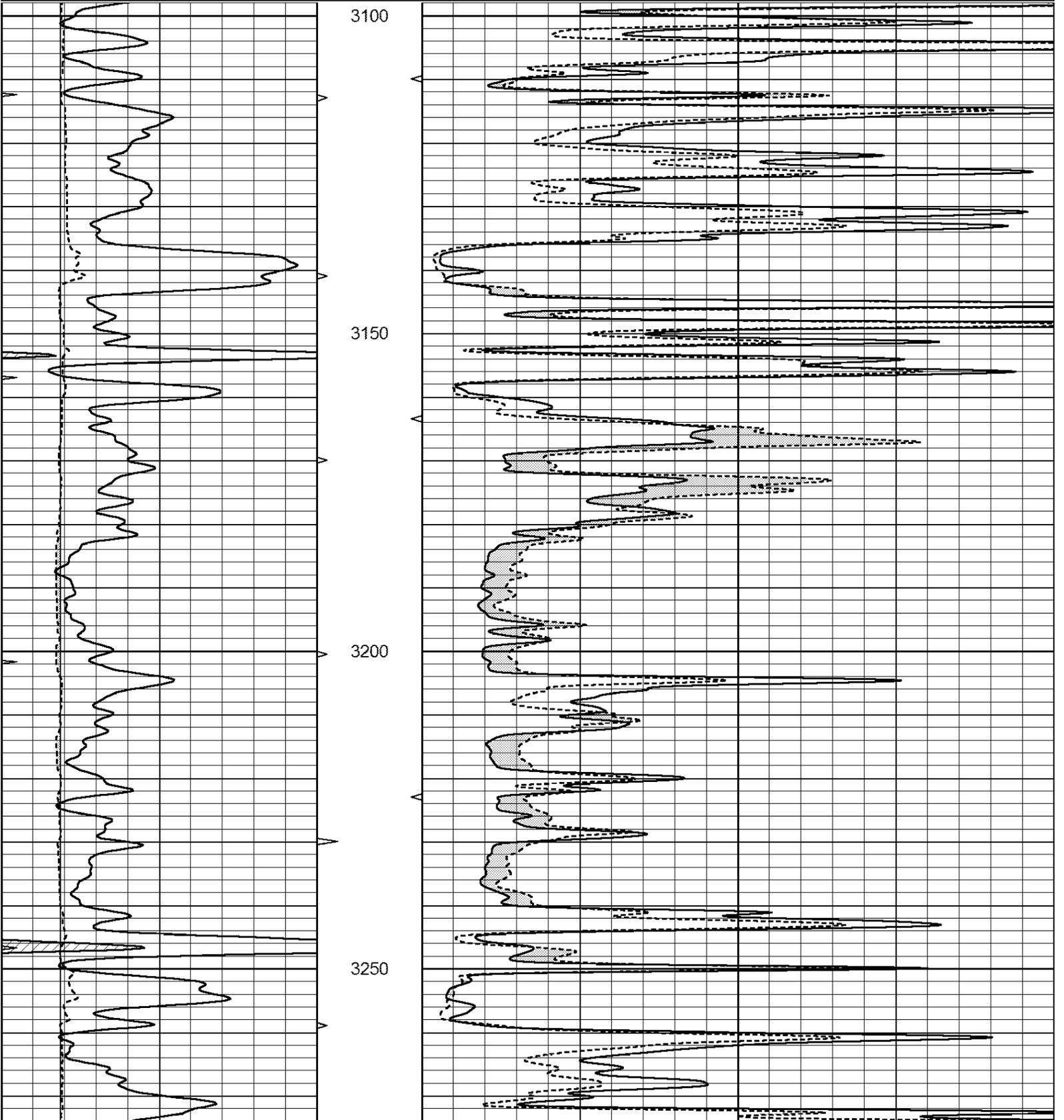
THANK YOU FOR USING NABORS, HAYS, KS. (785) 628-6395  
DIRECTIONS:  
LARNED, KS. - SOUTH TO HWY 19 - 2 EAST - 1 NORTH - WEST INTO

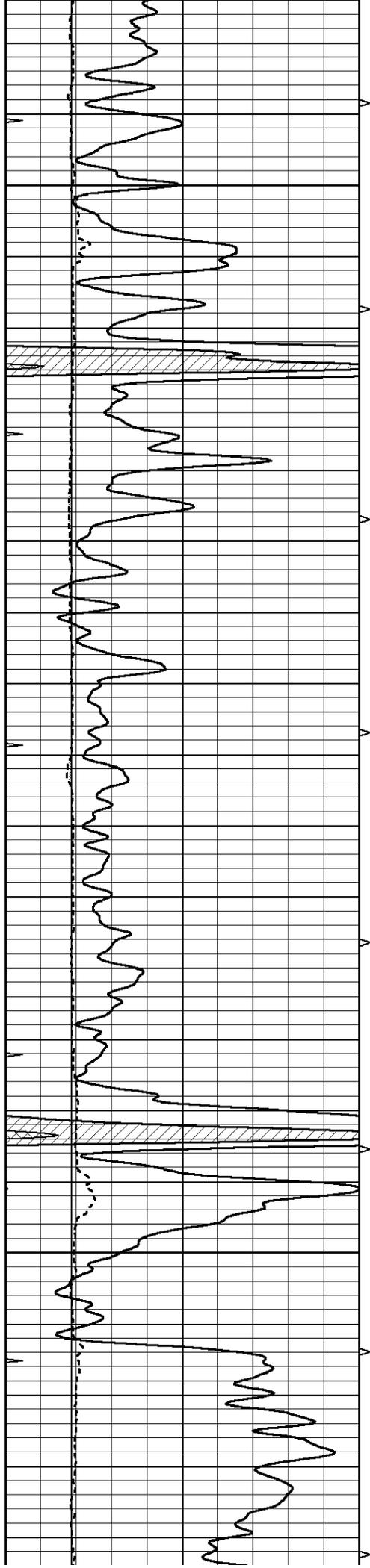


**MAIN SECTION**

Database File: 26418ddn.db  
 Dataset Pathname: pass6.1  
 Presentation Format: \_micro  
 Dataset Creation: Sun Dec 14 15:26:13 2014 by Calc Open-Cased 090629  
 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		



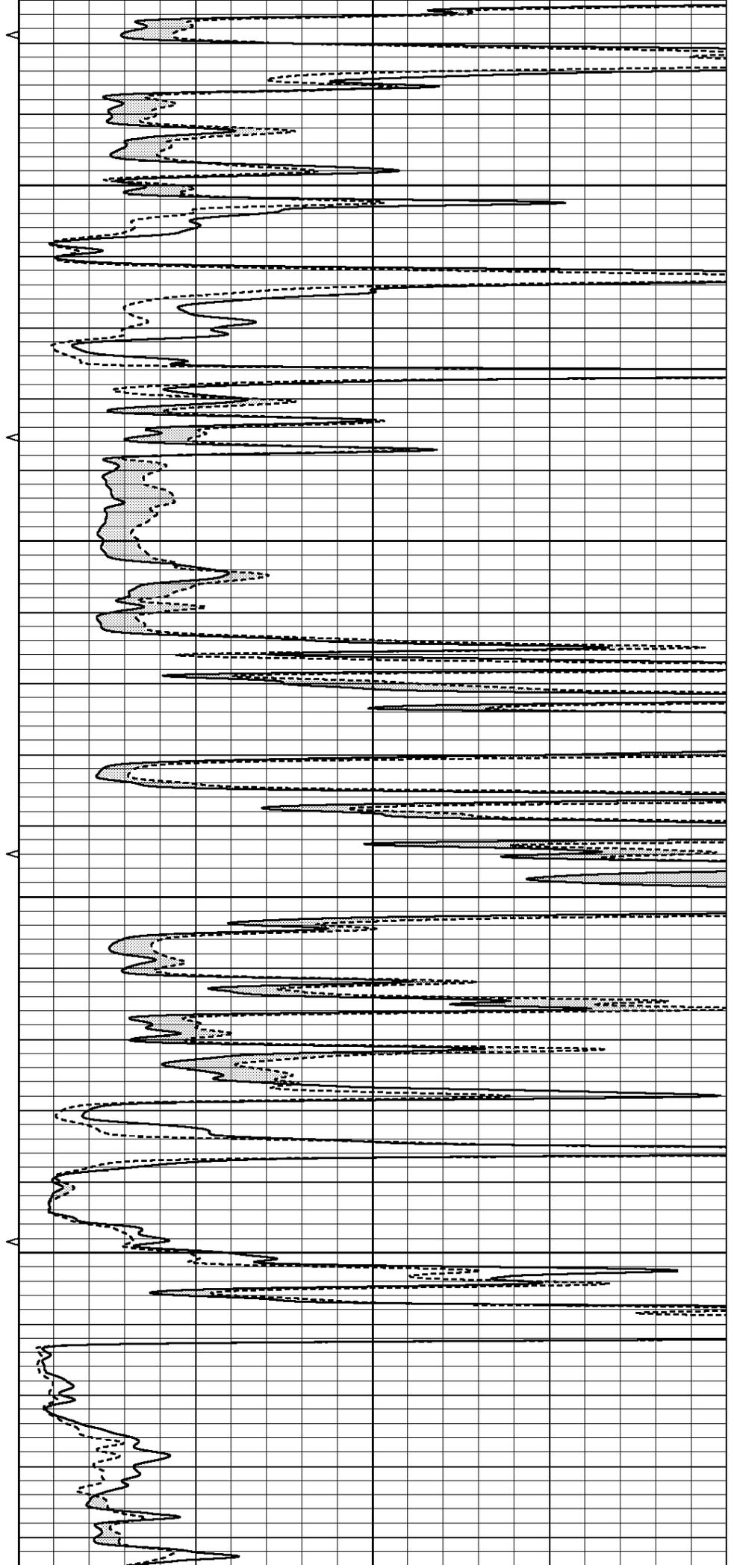


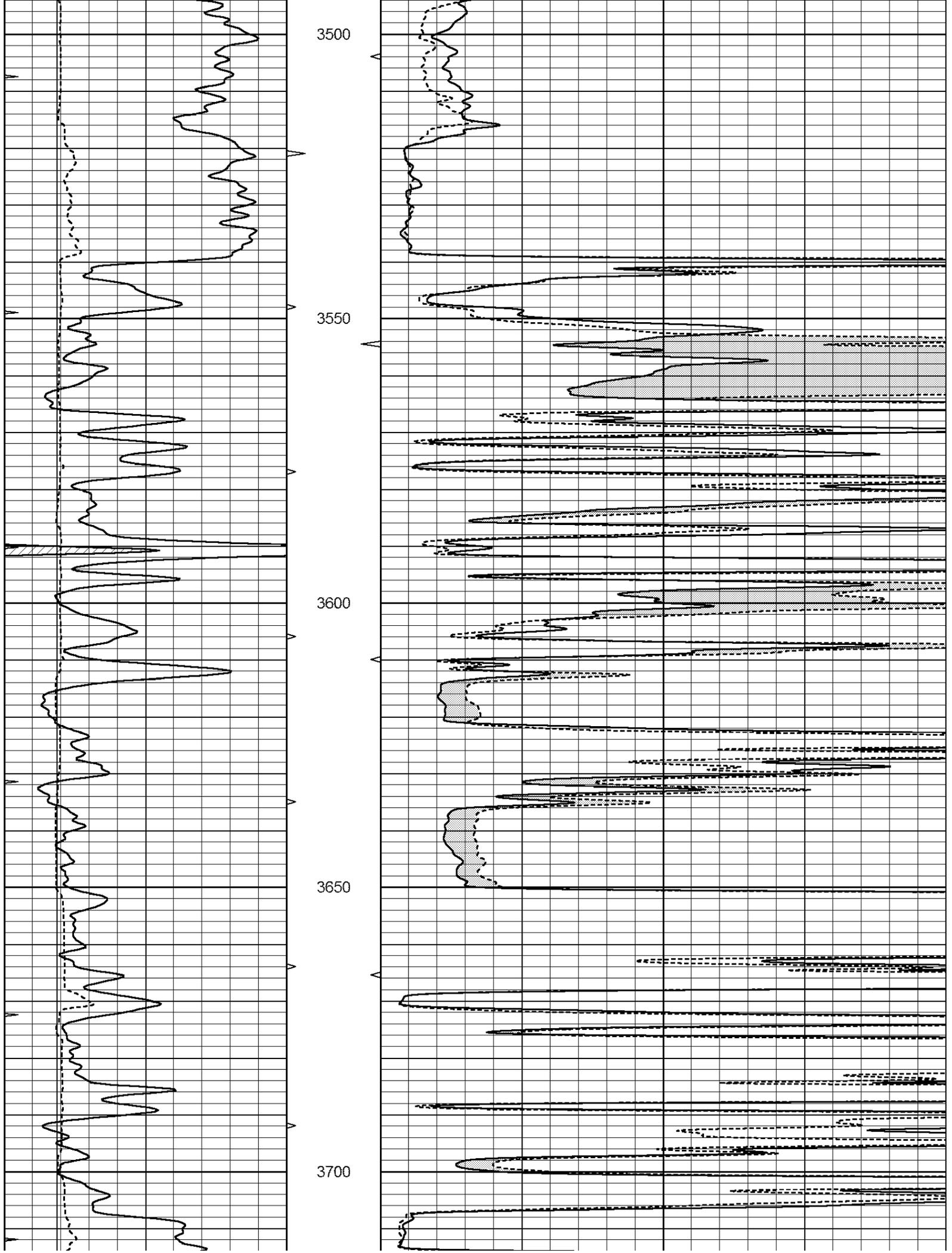
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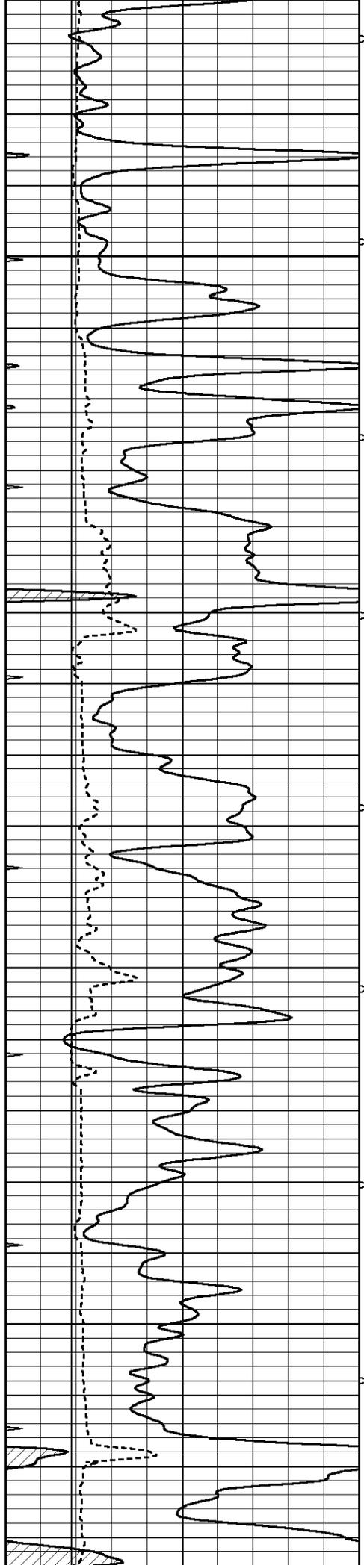
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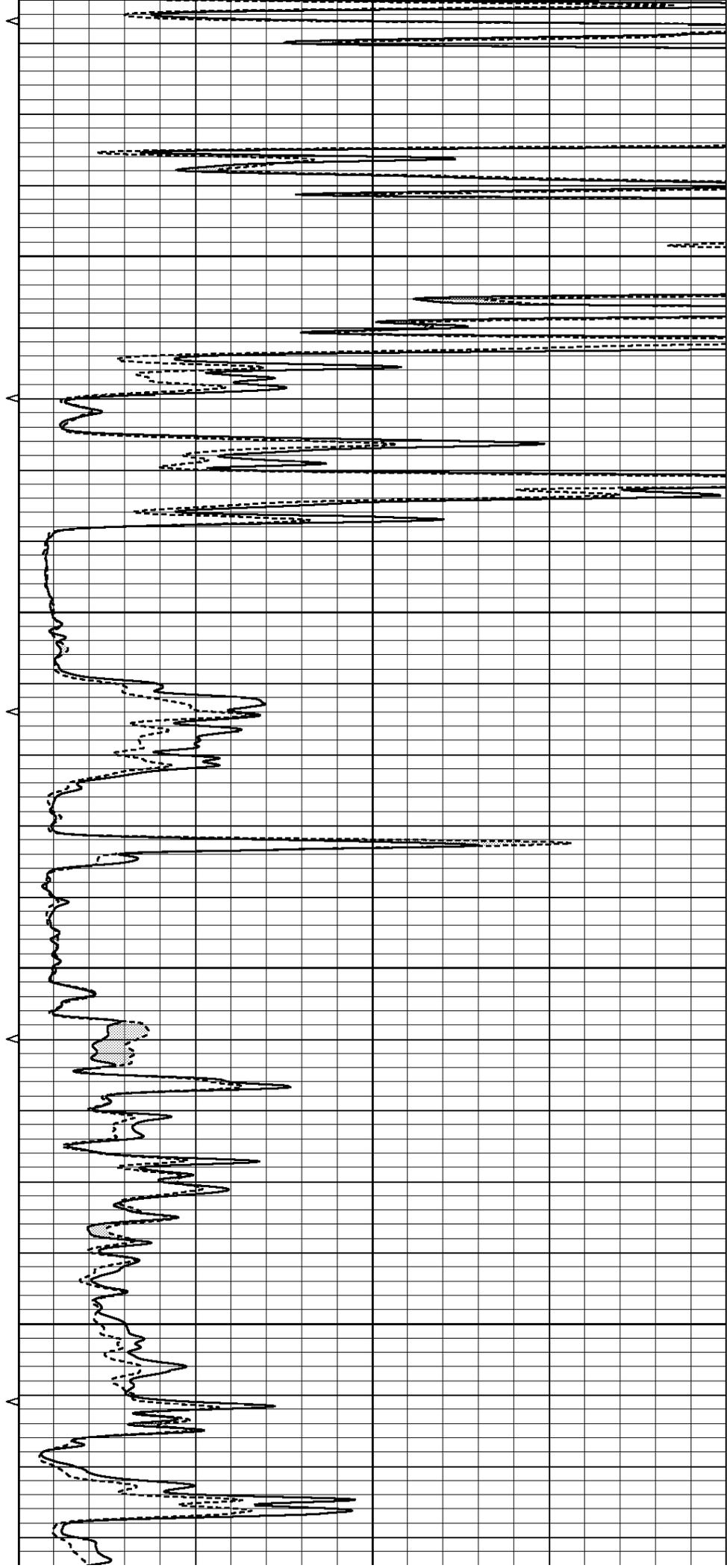


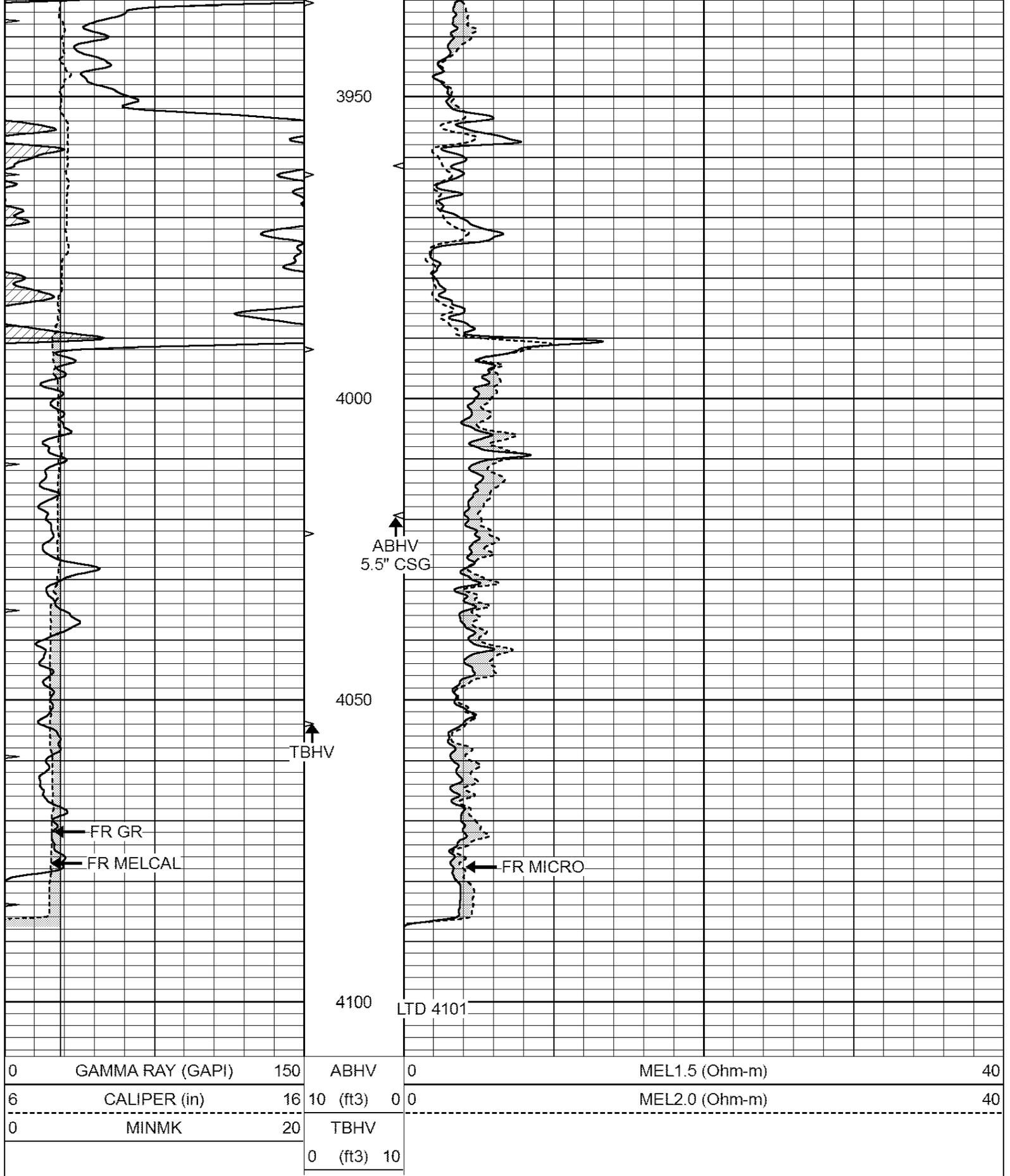
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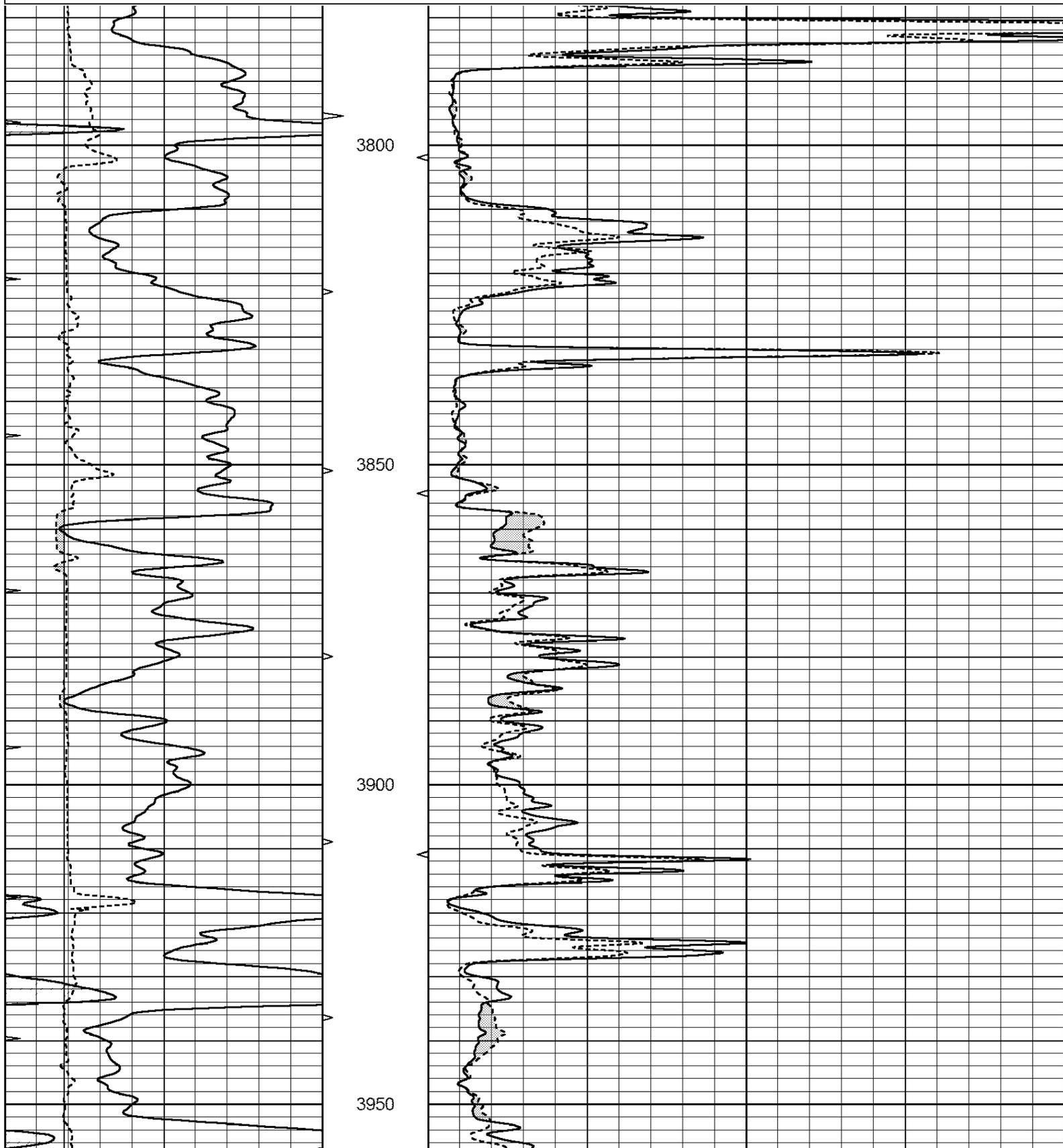
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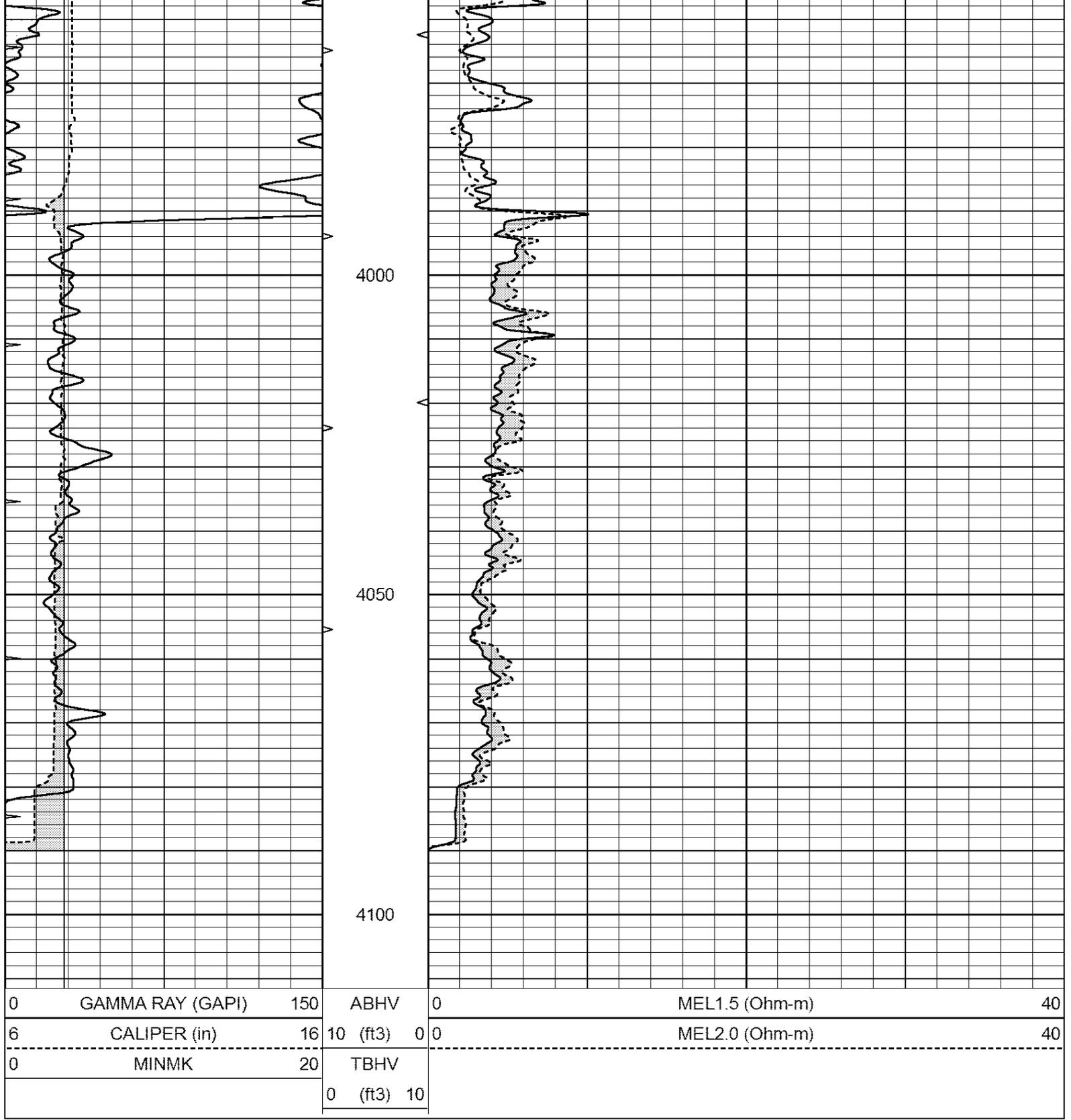




Database File: 26418ddn.db  
 Dataset Pathname: pass5.1  
 Presentation Format: \_micro  
 Dataset Creation: Sun Dec 14 15:24:49 2014 by Calc Open-Cased 090629  
 Charted by: Depth in Feet scaled 1:240

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: 26418ddn.db  
 Dataset Pathname: pass5.1  
 Dataset Creation: Sun Dec 14 15:24:49 2014 by Calc Open-Cased 090629

MICRO Calibration Report

Serial Number: MICRO3  
 Tool Model: PROBE  
 Performed: Thu Nov 17 03:06:31 2011

Caliper Calibration: Gain=3.916      Offset=-9.771

References	Low Cal	High Cal
Readings	8.000	14.000
	4.257	5.789
1.5" Calibration:	Gain=100.000	Offset=0.000
References	Low Cal	High Cal
Readings	0.000	20.000
	0.004	0.228
2" Calibration:	Gain=150.553	Offset=-1.220
References	Low Cal	High Cal
Readings	0.000	20.000
	0.005	0.175
Gamma Ray Calibration Report		
Serial Number:	GR6	
Tool Model:	OPEN	
Performed:	Wed Dec 10 11:09:24 2014	
Calibrator Value:	150.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	276.0	cps
Sensitivity:	0.8000	GAPI/cps