



NABORS

**COMPLETION
& PRODUCTION
SERVICES CO.**

**MICRO
LOG**

Company		MULL DRILLING COMPANY, INC.	
Well	BENSON #1-4		
Field	McDONALD		
County	NESS	State	KANSAS
Location:	SEC 4 TWP 19S RGE 24W 1500' FNL & 2300' FEL NE NW SW NE		API # : 15-135-25482-0000 CDL/CNL/PE DIL
Permanent Datum	GROUND LEVEL	Elevation	2333
Log Measured From	KELLY BUSHING 9' A.G.L.	Elevation	K.B. 2342 D.F. 2340 G.L. 2333
Drilling Measured From	KELLY BUSHING		
Date	11/10/12		
Run Number	TFWO		
Depth Driller	4500		
Depth Logger	4504		
Bottom Logged Interval	4502		
Top Log Interval	3600		
Casing Driller	8 5/8" @ 222		
Casing Logger	228		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.0/7.4	CHLORIDES 5200 PPM	
pH / Fluid Loss	10.5/8.0		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	.85 @ 83F		
Rmf @ Meas. Temp	.63 @ 83F		
Rmc @ Meas. Temp	1.02 @ 83F		
Source of Rmf / Rmc	MEASURED		
Rim @ BHT	.58 @ 120F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	120F		
Equipment Number	680		
Location	HAYS, KS.		
Recorded By	JASON CAPPELLUCCI		
Witnessed By	MACKLIN ARMSTRONG		

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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 SUPERIOR WELL SERVICE (785) 628-6395
 DIRECTIONS
 NESS CITY, KS. - 5 W. TO RD. N - 1 S. - E. & S. INTO



NABORS
 COMPLETION
 & PRODUCTION

MAIN SECTION

Database File:

010126pe.db

Dataset Pathname:

pass5.1

Presentation Format:

_micro

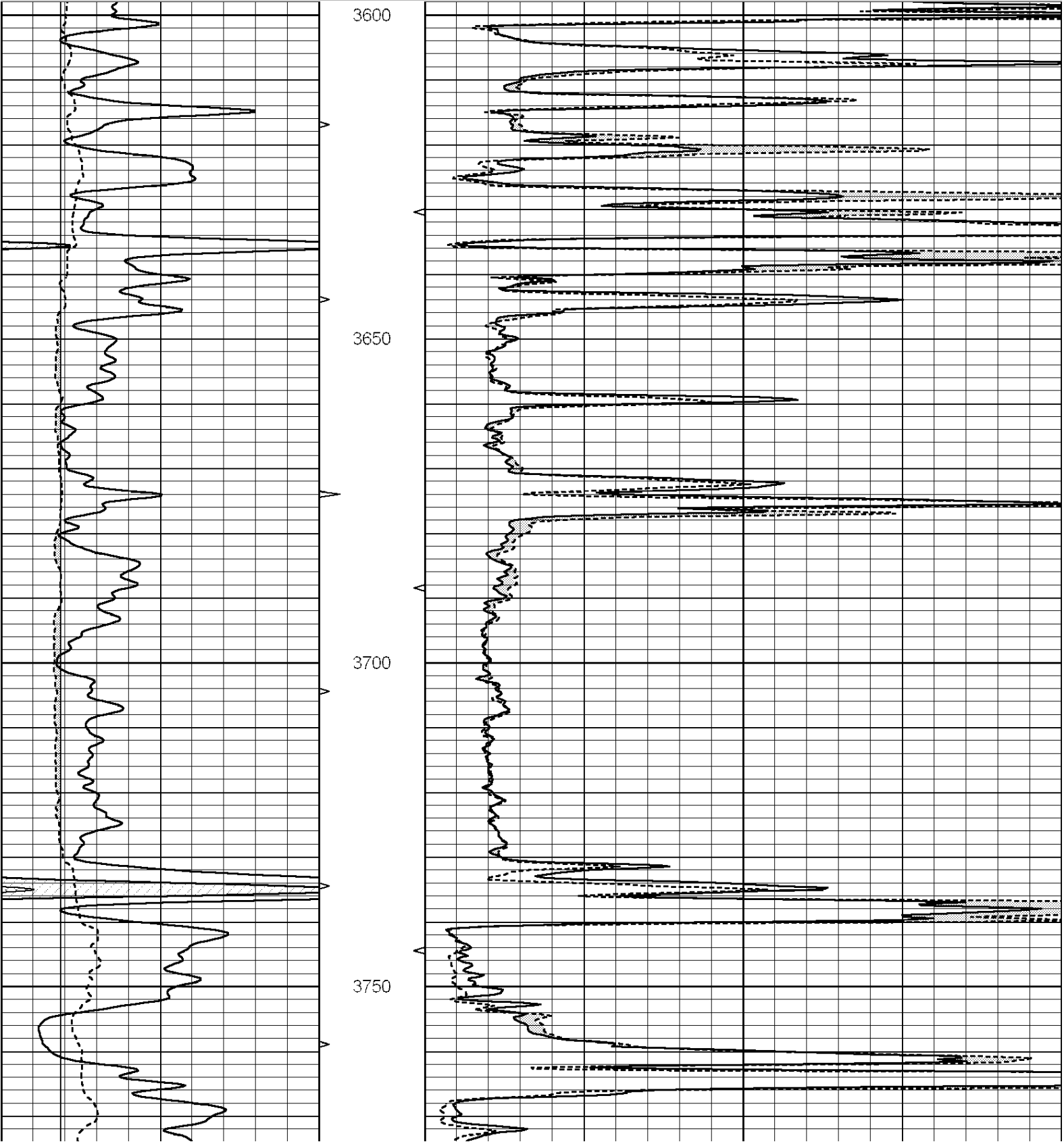
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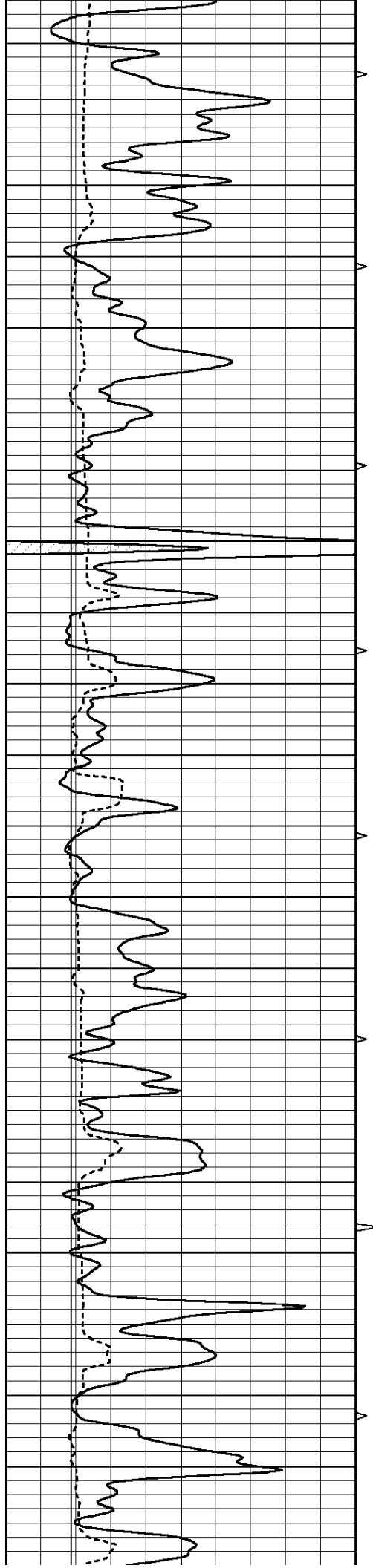
Sat Nov 10 22:38:47 2012 by Calc Open-Cased 090629

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 0	MEL2.0 (Ohm-m)	40
			TBHV			
			0 (ft3)	10		



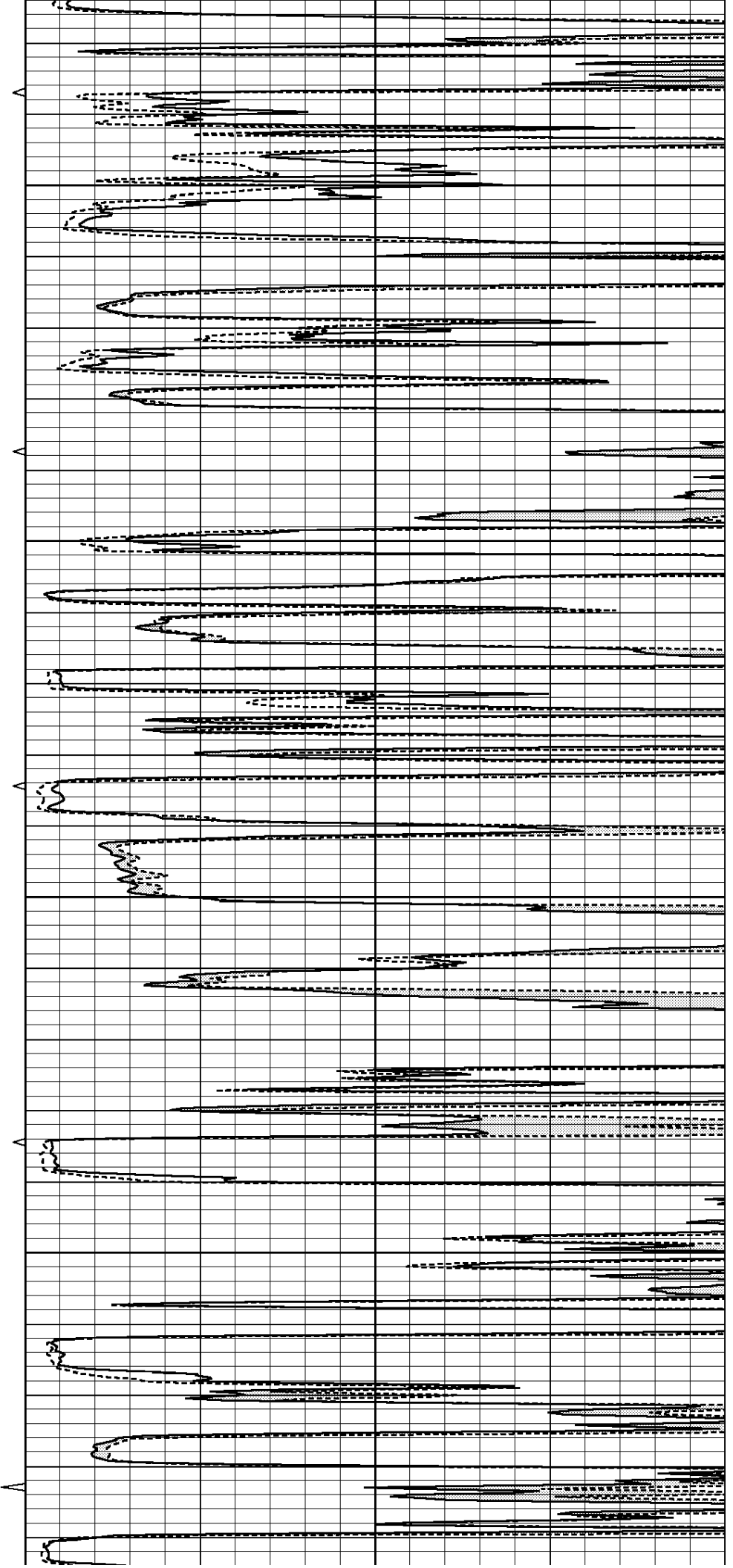


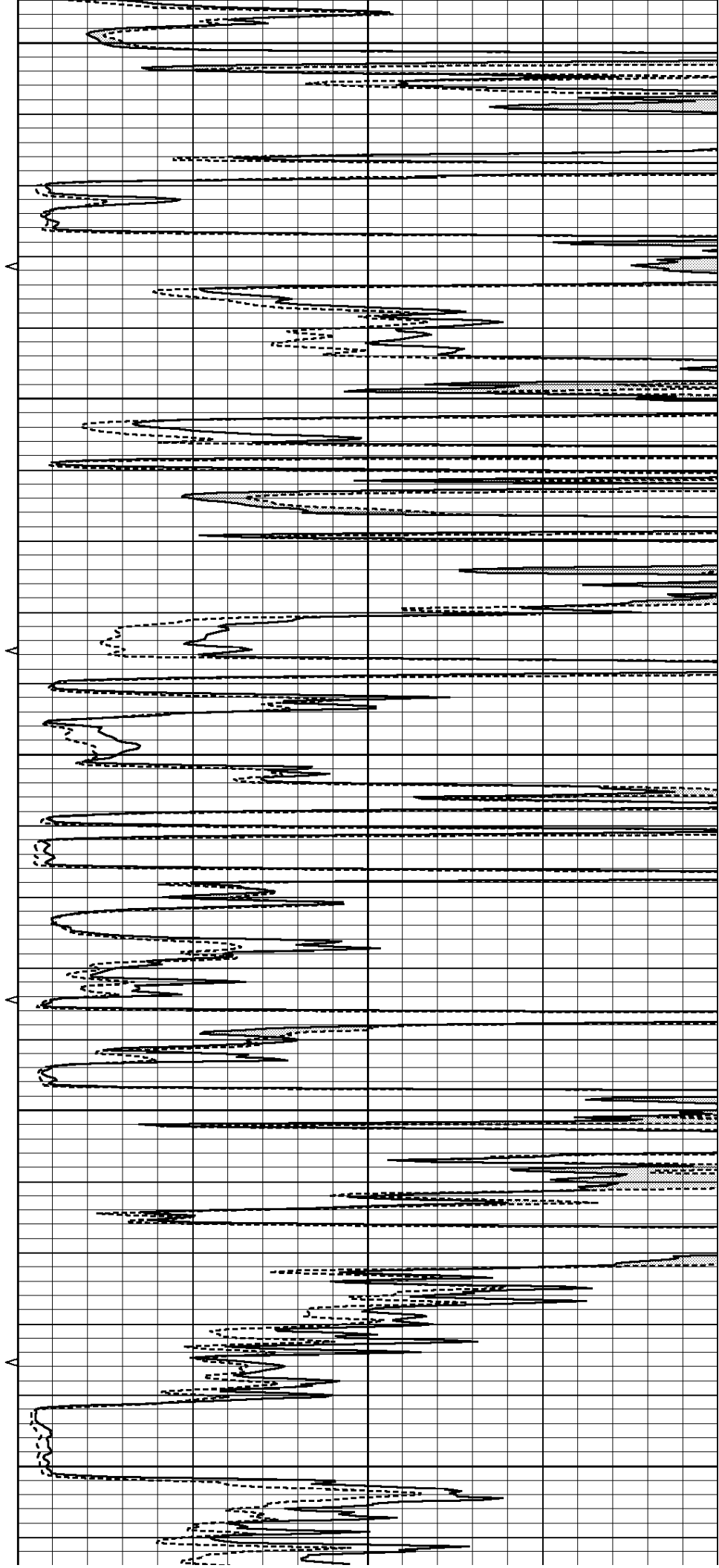
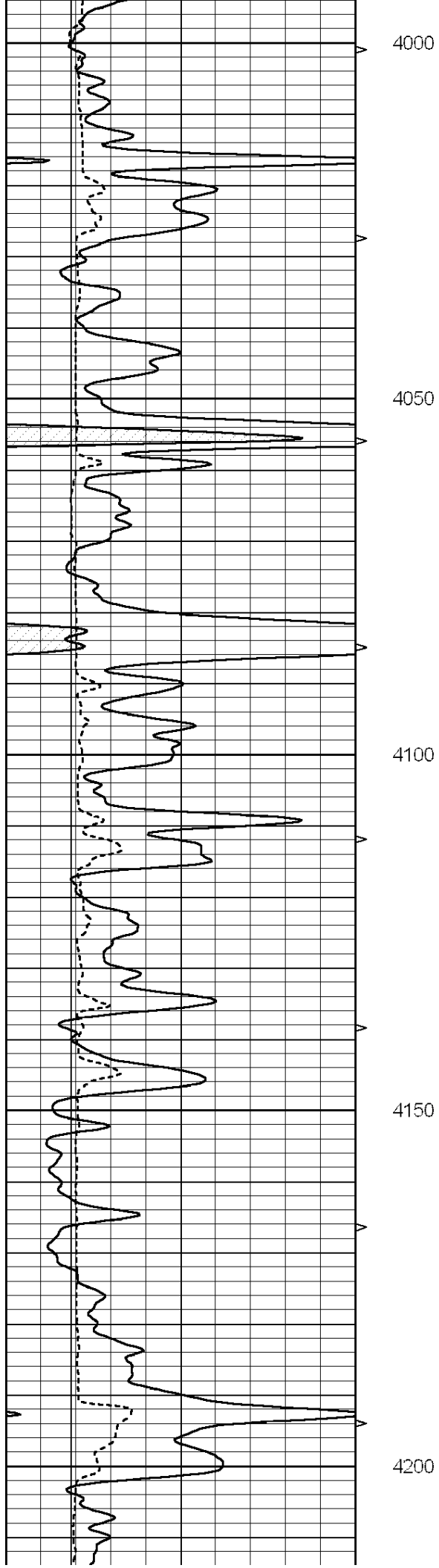
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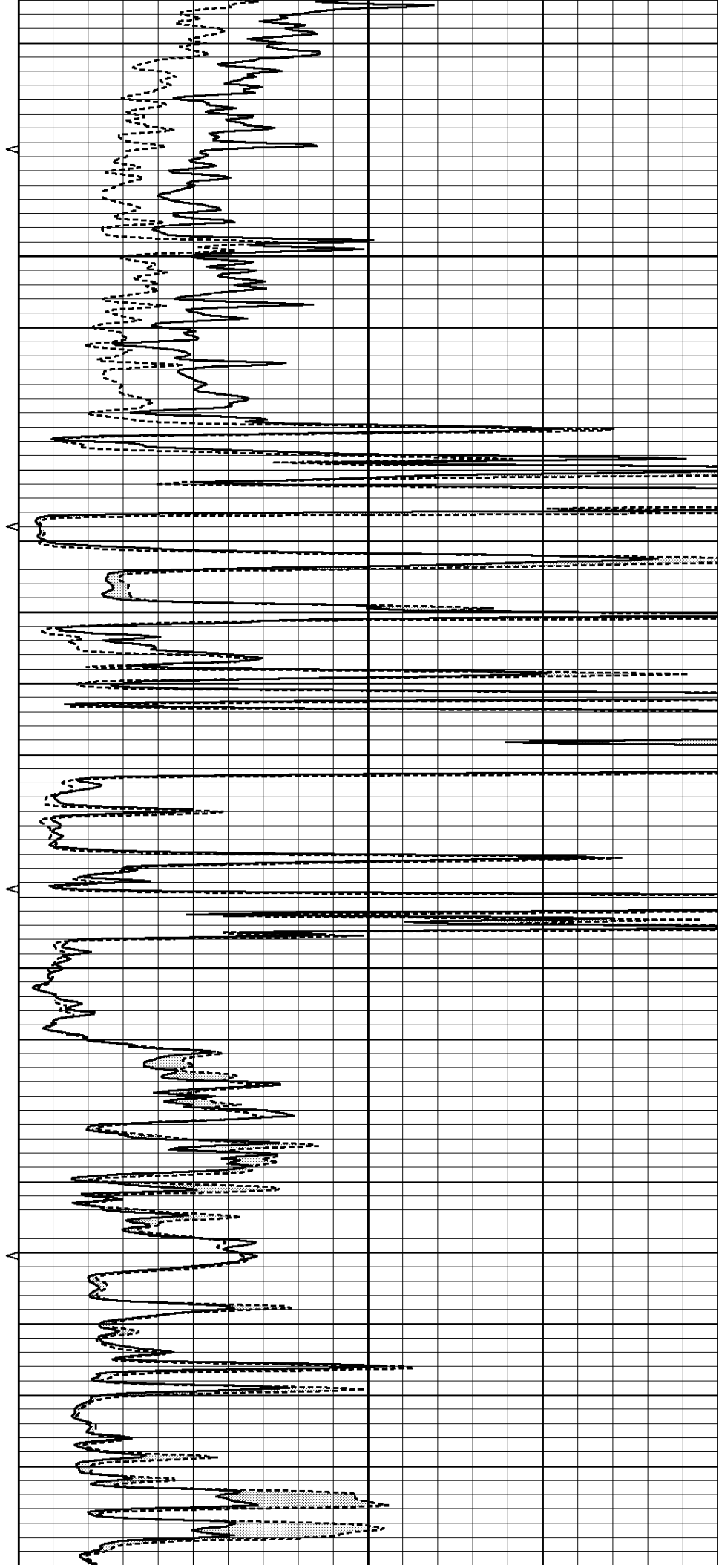
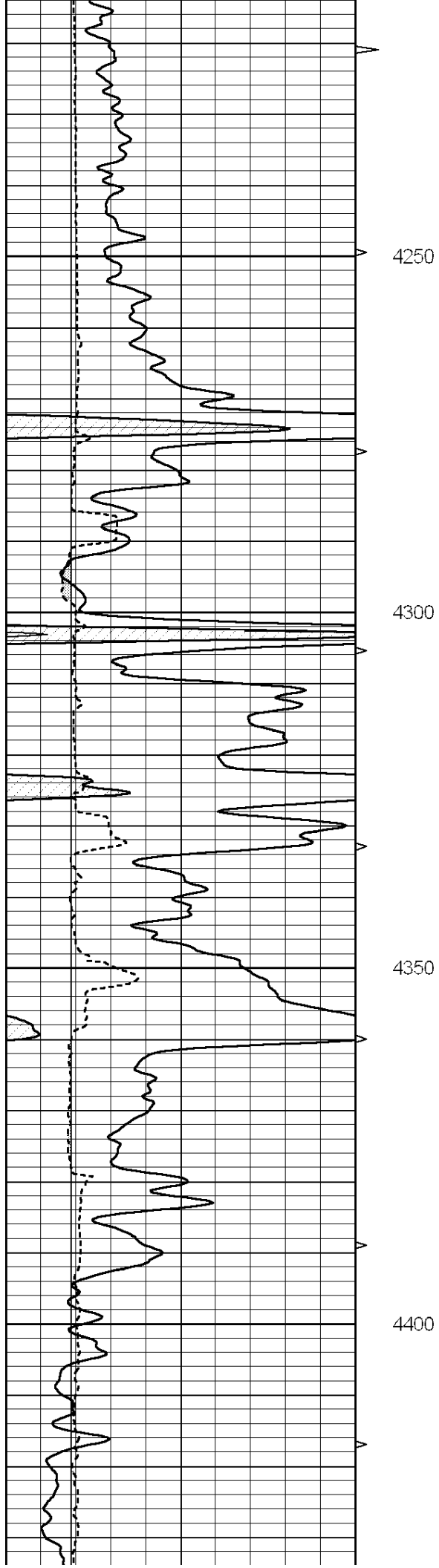
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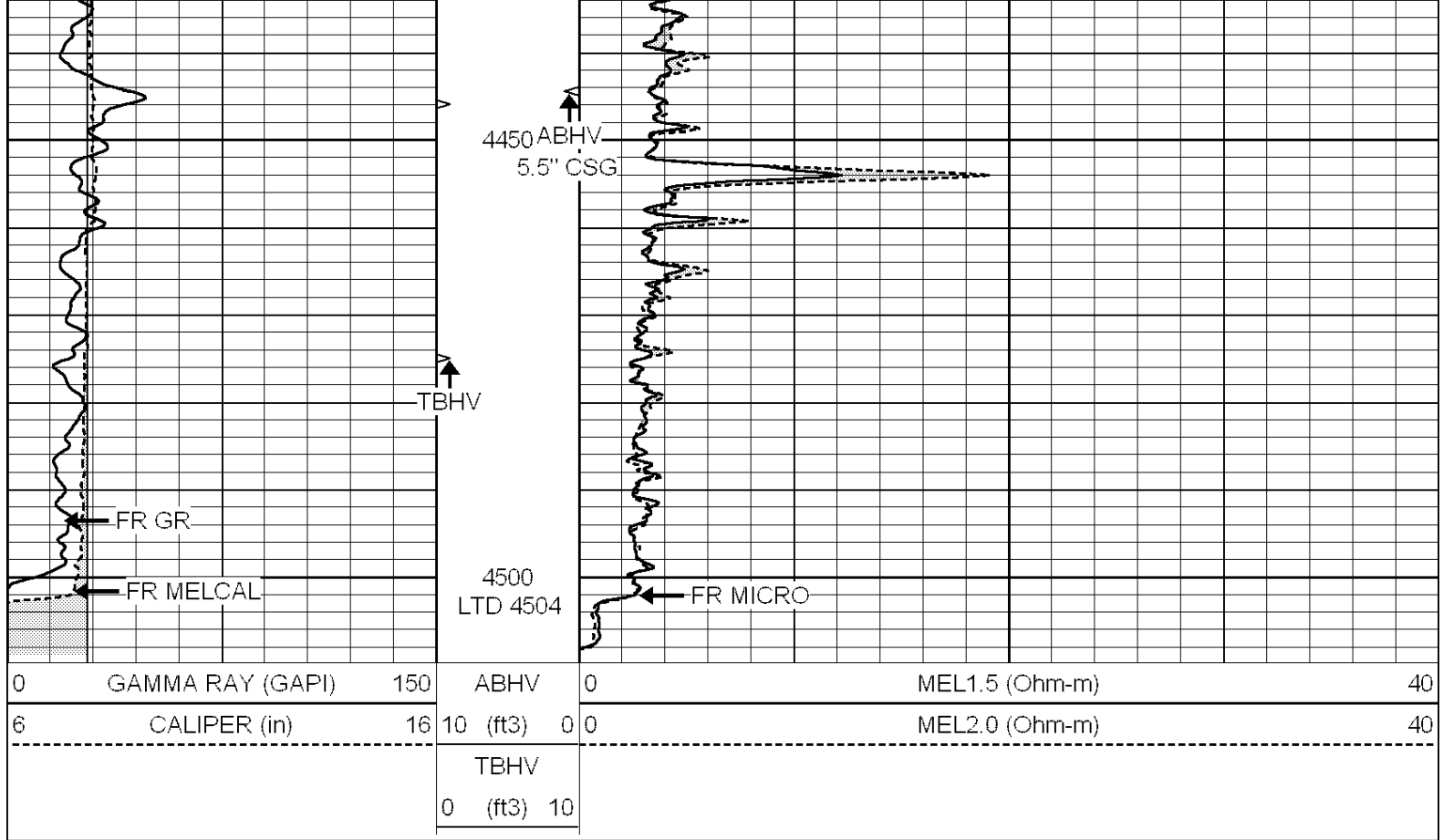
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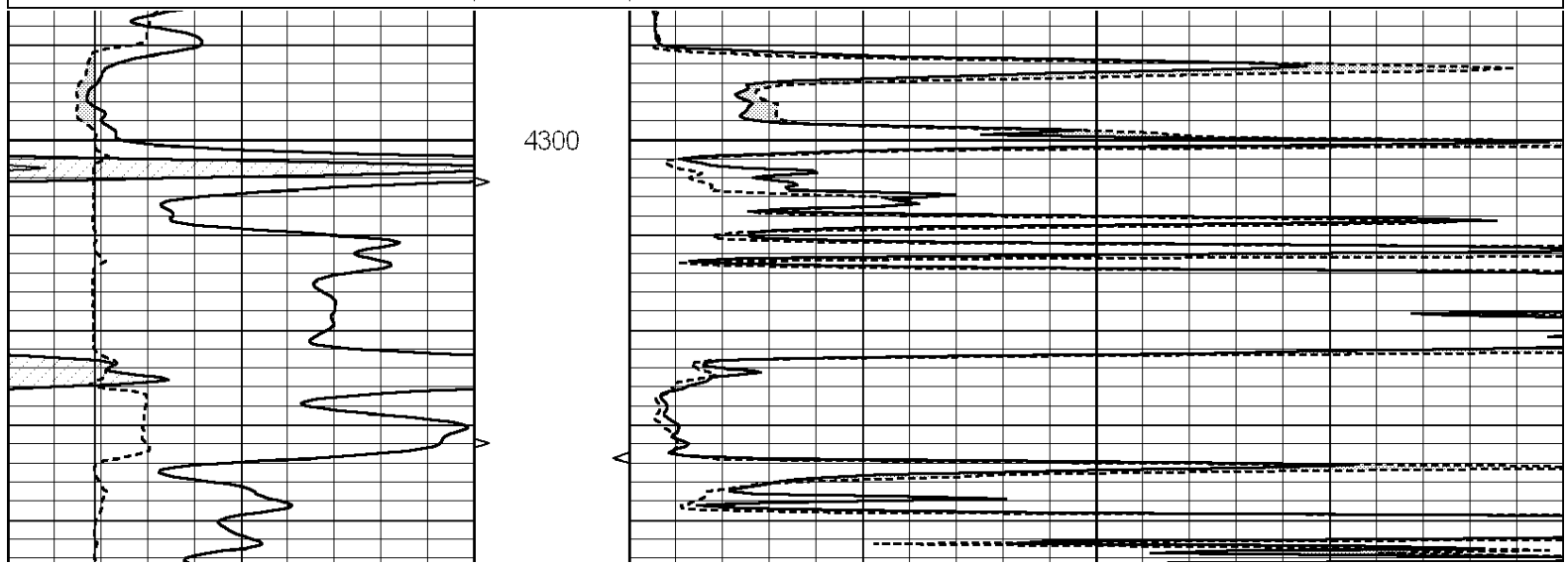


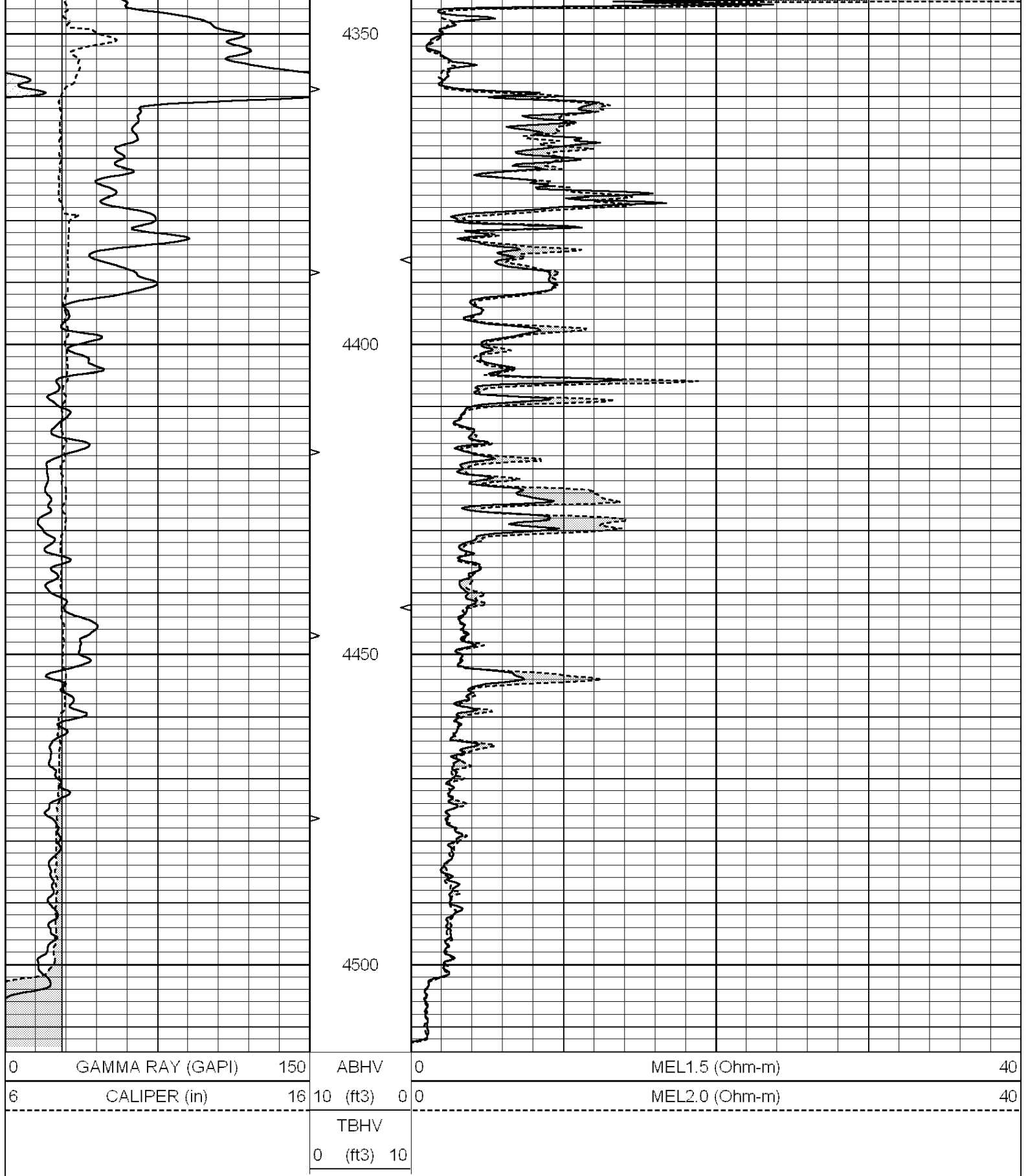
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REPEAT SECTION

Database File: 010126pe.db
Dataset Pathname: pass4.1
Presentation Format: _micro
Dataset Creation: Sat Nov 10 22:26:30 2012 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
			TBHV			
			0 (ft3)	10		





Calibration Report

Database File: 010126pe.db
Dataset Pathname: pass4.1
Dataset Creation: Sat Nov 10 22:26:30 2012 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=-10.071
References	Low Cal	High Cal
Readings	8.000	14.000
	4.257	5.789
1.5" Calibration:	Gain=150.000	Offset=-0.700
References	Low Cal	High Cal
Readings	0.000	20.000
	0.004	0.228
2" Calibration:	Gain=130.553	Offset=-1.220
References	Low Cal	High Cal
Readings	0.000	20.000
	0.005	0.175
Gamma Ray Calibration Report		
Serial Number:	#8	
Tool Model:	OPEN	
Performed:	Mon Jun 13 16:56:43 2011	
Calibrator Value:	150.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	175.0	cps
Sensitivity:	0.8371	GAPI/cps