



NABORS

**COMPLETION
& PRODUCTION
SERVICES CO.**

**MICRO
LOG**

Company MULL DRILLING COMPANY, INC. Well #1-12 BROWN TRUST Field WILDCAT County SCOTT State KANSAS		Location: API # : 15-171-20932-0000 922' FSL & 494' FEL SEC 12 TWP 16S RGE 32W Permanent Datum GROUND LEVEL Elevation 2936 Log Measured From KELLY BUSHING 9' A.G.L. Drilling Measured From KELLY BUSHING Other Services CDL/CNL/PE DIL/SONIC Elevation K.B. 2945 D.F. 2943 G.L. 2936	
Date	10/1/13		
Run Number	TWO		
Depth Driller	4700		
Depth Logger	4699		
Bottom Logged Interval	4677		
Top Log Interval	3800		
Casing Driller	8 5/8"@210'		
Casing Logger	208		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 2,600 PPM	
Density / Viscosity	9.3/60		
pH / Fluid Loss	11.0/4.8		
Source of Sample	FLOWLINE		
Rin @ Meas. Temp	.900@85F		
Rinf @ Meas. Temp	.675@85F		
Rinc @ Meas. Temp	1.08@85F		
Source of Rinf / Rinc	MEASUREMENT		
Rin @ BHT	.627@122F		
Time Circulation Stopped	4.5 HOURS		
Time Logger on Bottom	10:15 A.M.		
Maximum Recorded Temperature	122F		
Equipment Number	4854		
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 "NABORS" HAYS, KANSAS (785) 628-6395
 DIRECTIONS
 OAKLEY, KS & HWY 83, 31S. ON HWY 83 TO "RD. 280", 3E. TO DEAD END SIGN. CONTINUE 1 1/2
 MORE E. ON PATURE TRAIL
 (ALTERNATE) 14 N. OF SCOTT CITY ON HWY 83

Database File:

011679pe.db

Dataset Pathname:

pass6.4

Presentation Format:

micro

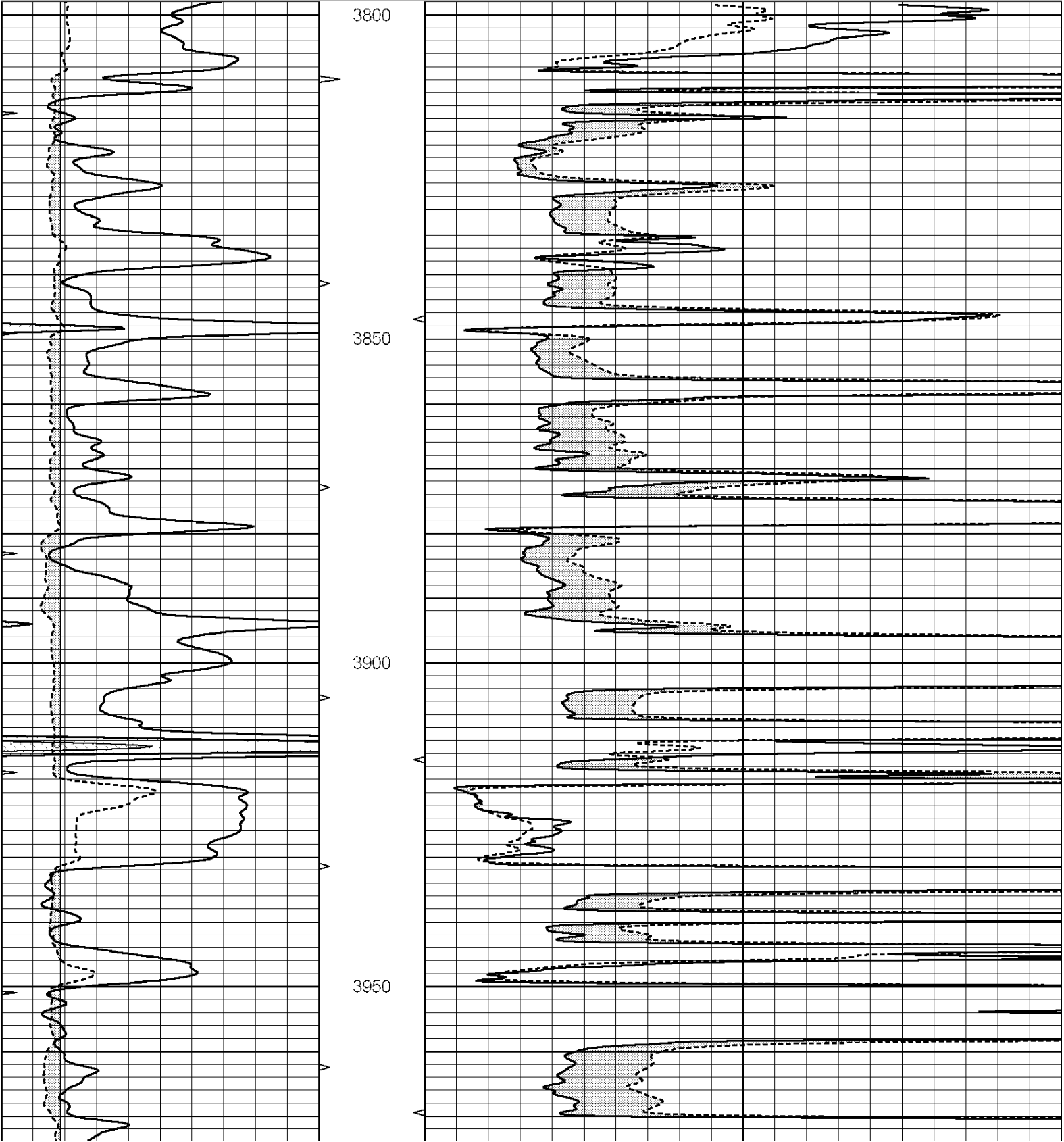
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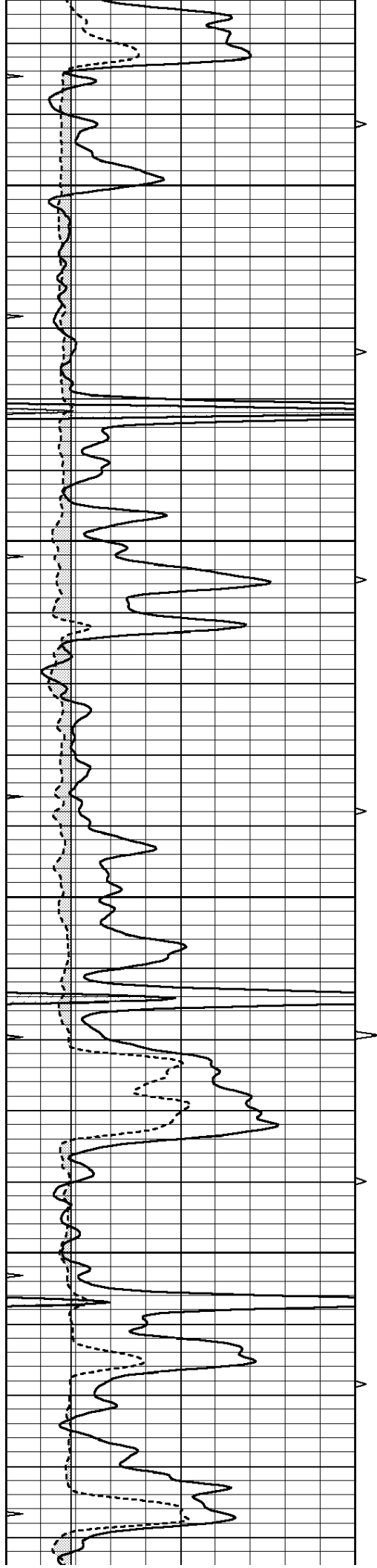
Tue Oct 01 13:08:09 2013

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		



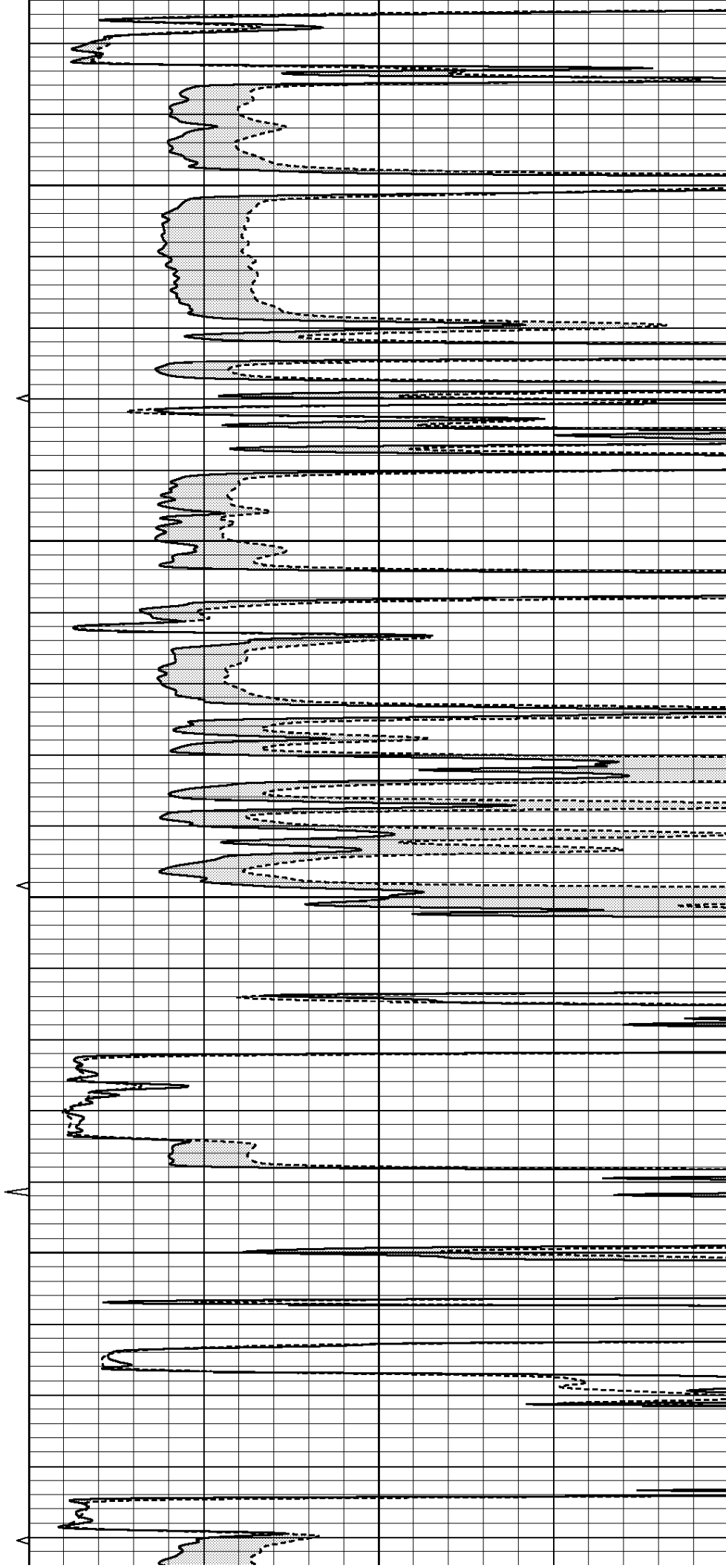


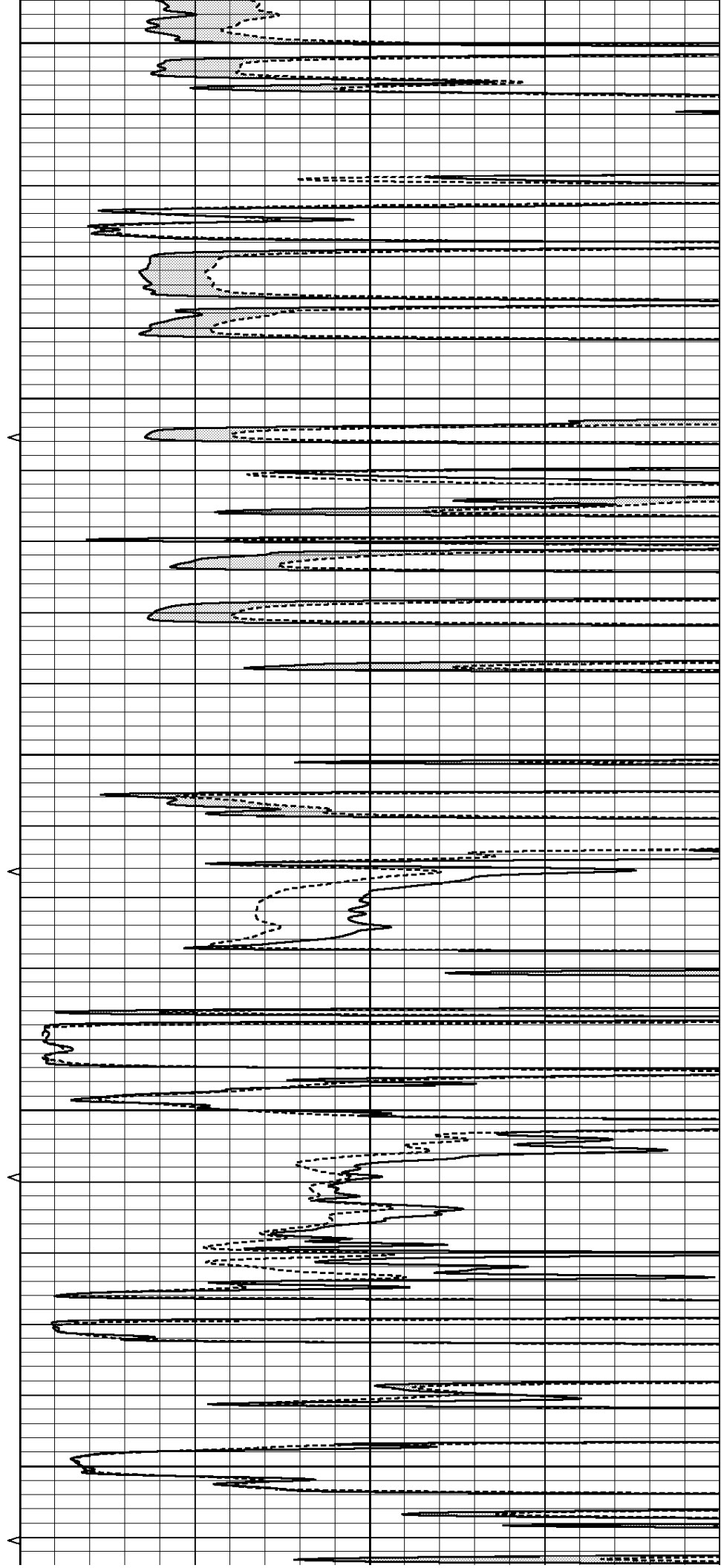
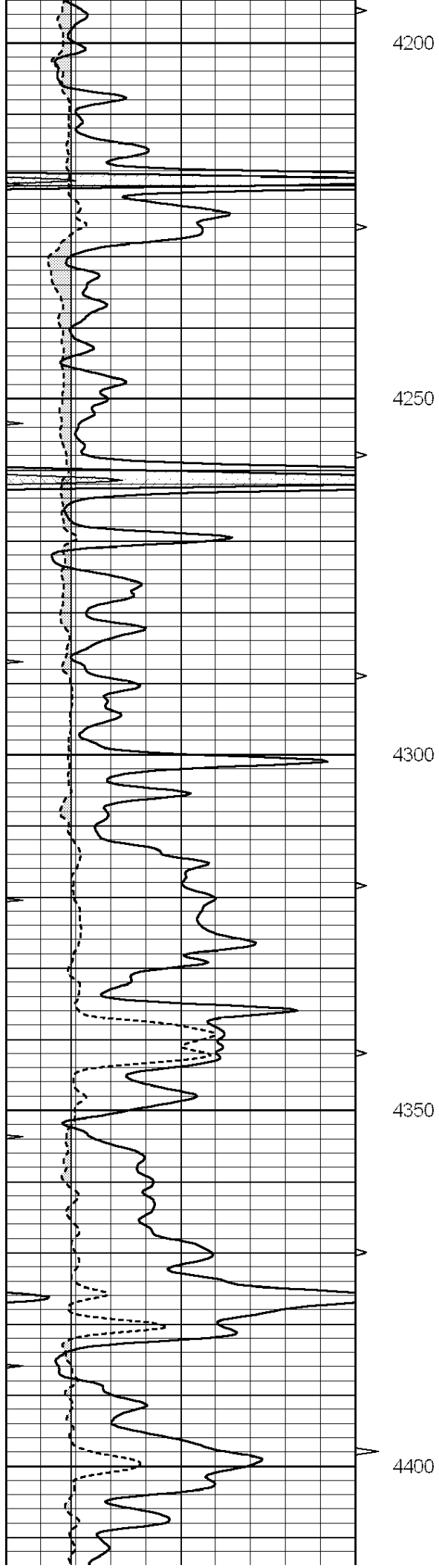
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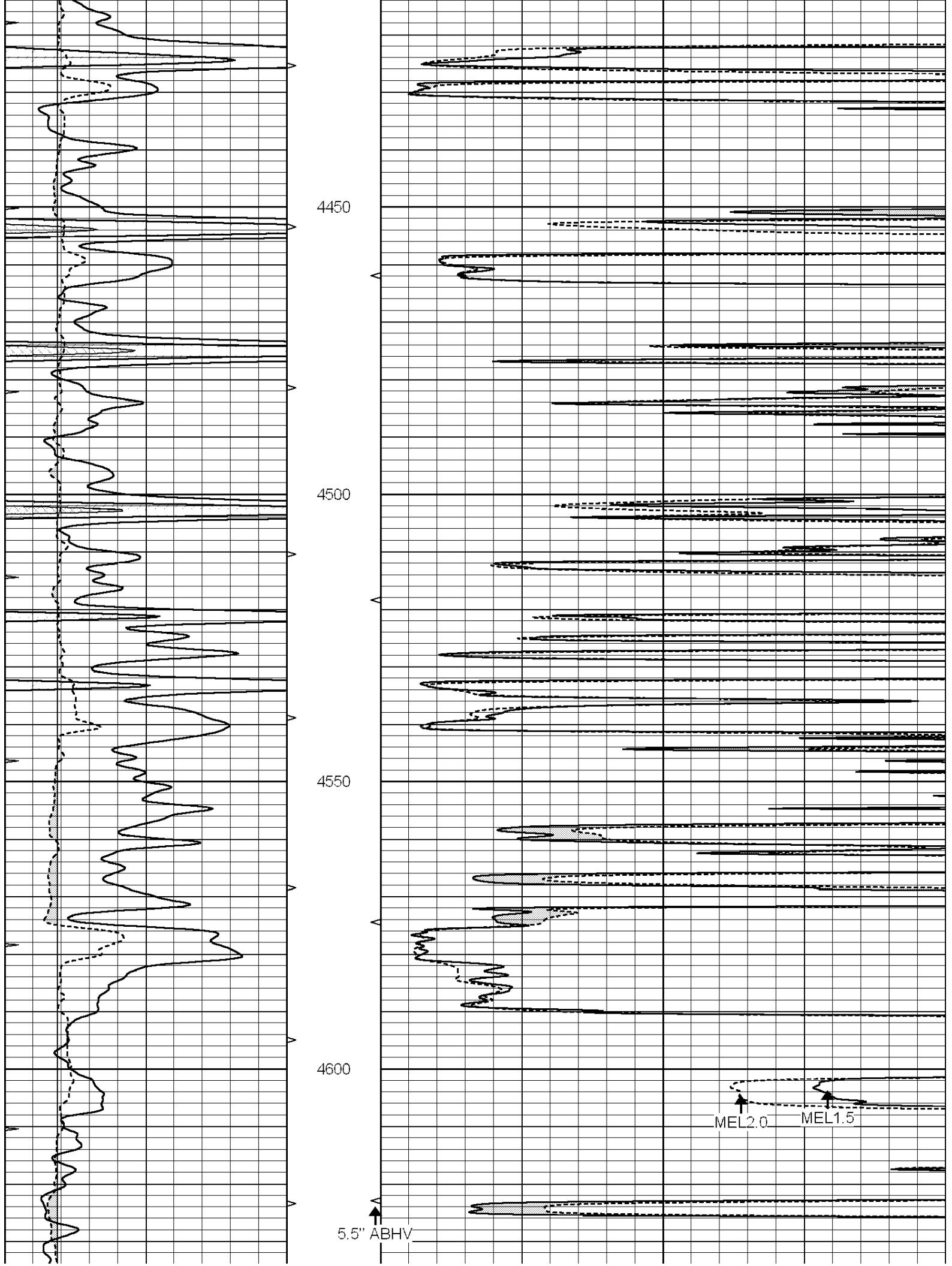
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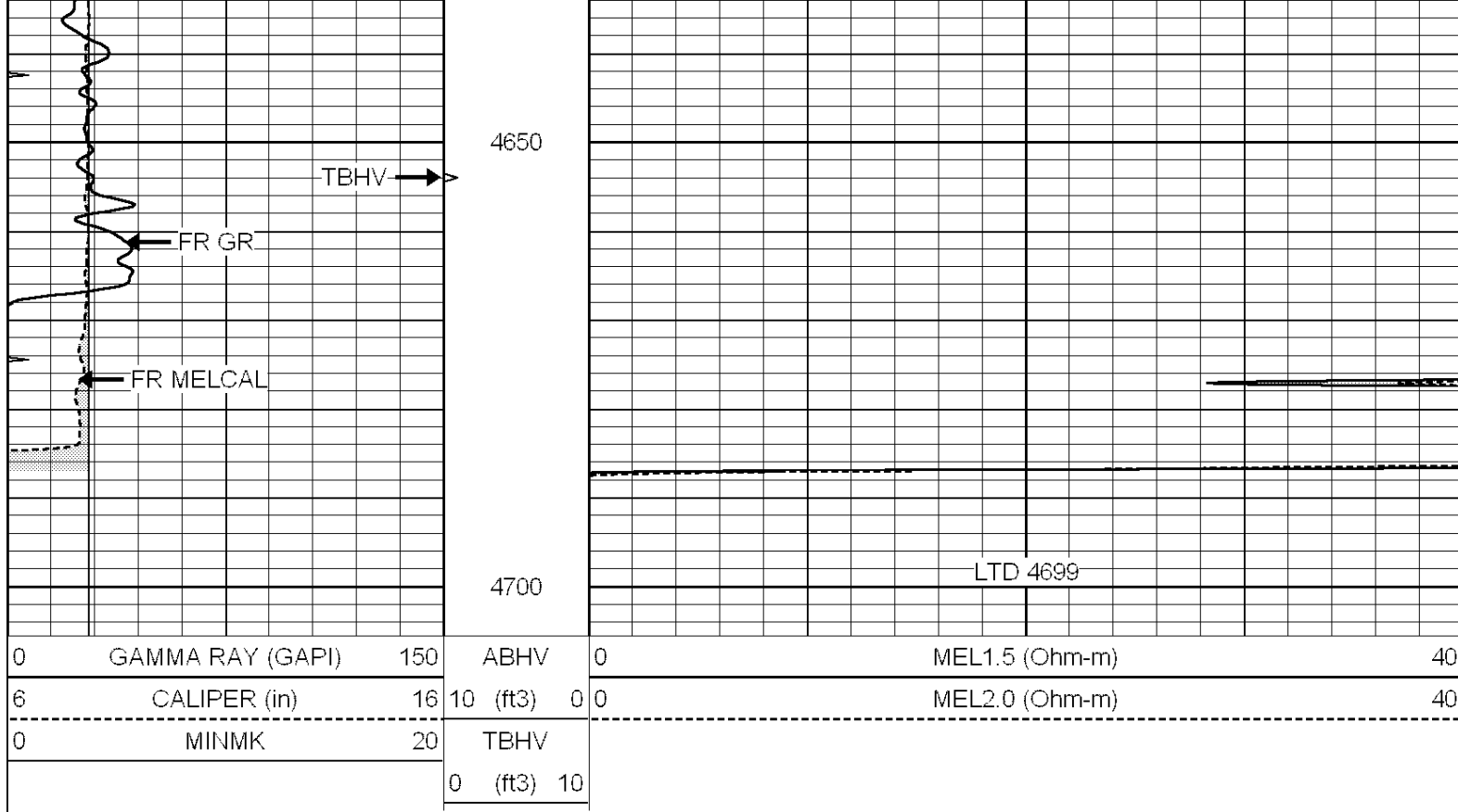
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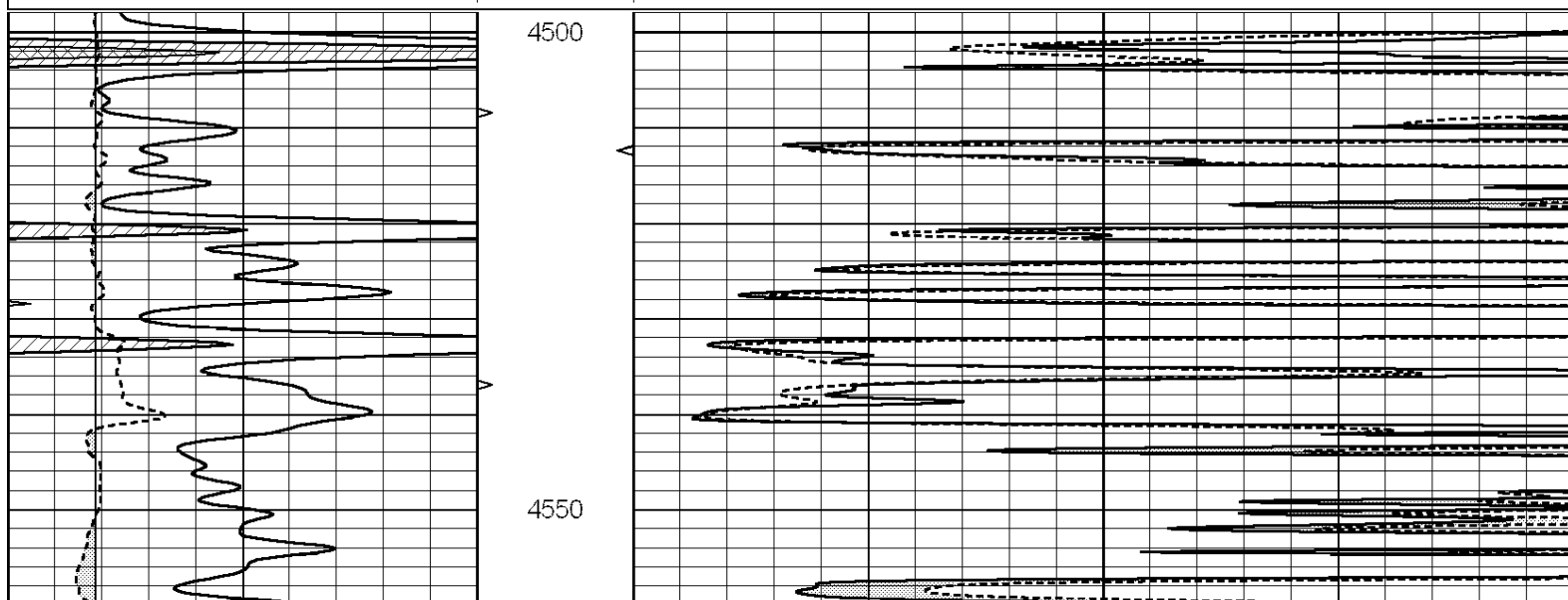


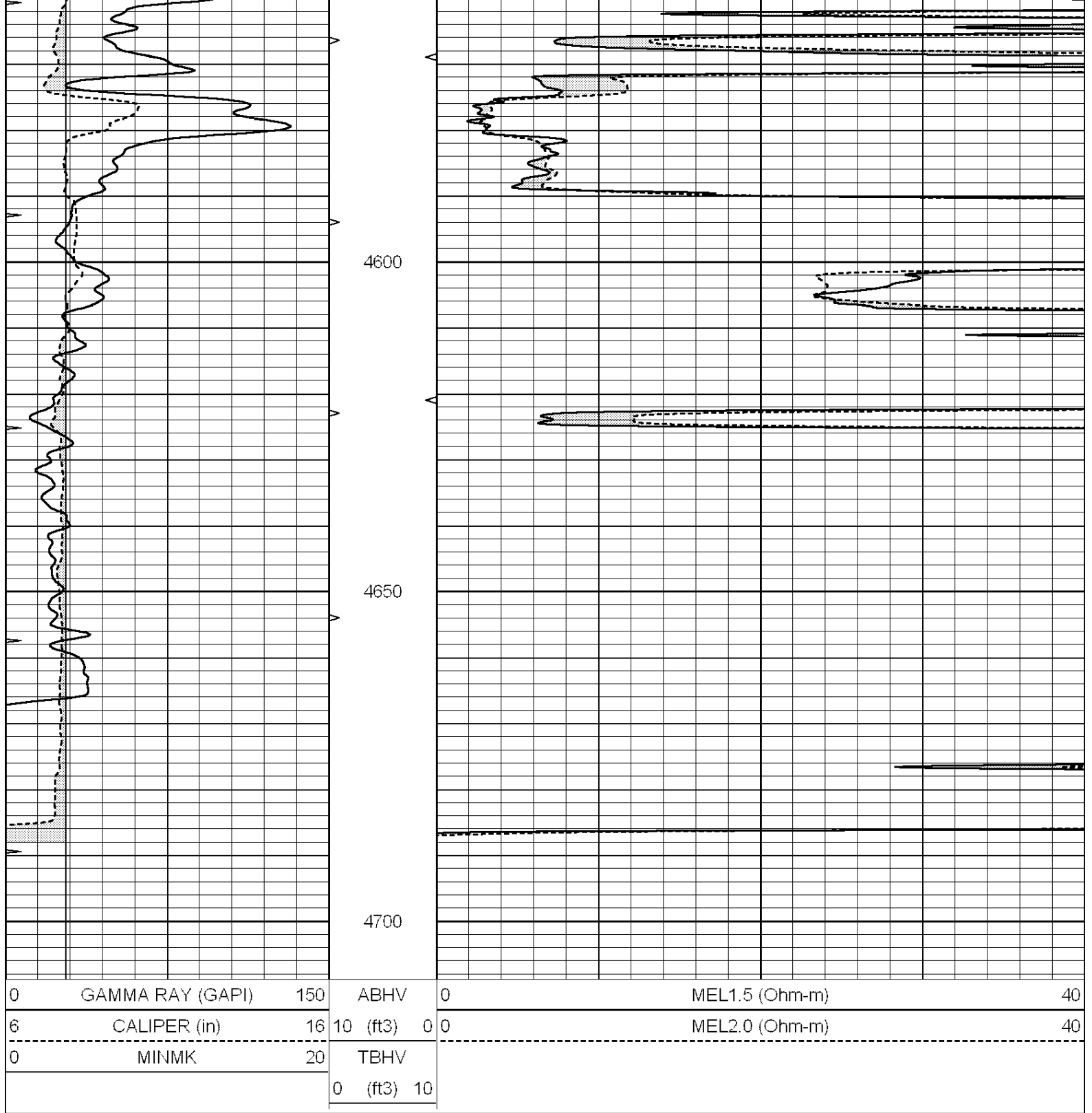


REPEAT SECTION

Database File: 011679pe.db
 Dataset Pathname: pass5.2
 Presentation Format: micro
 Dataset Creation: Tue Oct 01 12:44:49 2013
 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: 011679pe.db
 Dataset Pathname: pass6.4
 Dataset Creation: Tue Oct 01 13:08:09 2013

MICRO Calibration Report

Serial Number: MICRO5
 Tool Model: PROBE
 Performed: Tue Oct 01 11:50:22 2013

Caliper Calibration: Gain=3.553 Offset=-6.490

Low Cal High Cal

References	8.100	15.000
Readings	4.106	6.048
1.5" Calibration:	Gain=42.000	Offset=-1.000
	Low Cal	High Cal
References	0.000	20.000
Readings	0.015	1.005
2" Calibration:	Gain=52.000	Offset=-1.300
	Low Cal	High Cal
References	0.000	20.000
Readings	0.009	0.910
Gamma Ray Calibration Report		
Serial Number:	GR3	
Tool Model:	OPEN	
Performed:	Tue Oct 01 11:50:19 2013	
Calibrator Value:	200.0	GAPI
Background Reading:	3.0	cps
Calibrator Reading:	186.0	cps
Sensitivity:	1.7000	GAPI/cps