



NABORS

**COMPLETION
& PRODUCTION
SERVICES CO.**

**MICRO
LOG**

Company		MULL DRILLING COMPANY, INC.	
Well		#1-7 TILLITSON	
Field		WILDCAT	
County	NESS	State	KANSAS
Location:	API # : 15-135-25519-0000 1208' FNL & 769' FEL SEC 7 TWP 17S RGE 24W		
Permanent Datum	GROUND LEVEL	Elevation	2457
Log Measured From	KELLY BUSHING 5' A.G.L.		
Drilling Measured From	KELLY BUSHING	Other Services CDL/CNL/PE DIL/SONIC	Elevation K.B. 2462 D.F. 2460 G.L. 2457
Date	1/9/13		
Run Number	TWO		
Depth Driller	4550		
Depth Logger	4550		
Bottom Logged Interval	4528		
Top Log Interval	3700		
Casing Driller	8 5/8" @ 225'		
Casing Logger	226		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 5,000 PPM	
Density / Viscosity	9.2/47		
pH / Fluid Loss	9.5/9.0		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	1.00 @ 90F		
Rmf @ Meas. Temp	.750 @ 90F		
Rmc @ Meas. Temp	1.20 @ 90F		
Source of Rmf / Rmc	MEASUREMENT		
Rim @ BHT	.744 @ 121F		
Time Circulation Stopped	4 HOURS		
Time Logger on Bottom	12:30 P.M.		
Maximum Recorded Temperature	121F		
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
 RANSOM, KS. 3W. ON HWY 4 TO "RD. N", 3S. TO "RD. 230", 3/4W., S. INTO



NABORS
**COMPLETION
& PRODUCTION**

MAIN SECTION

Database File:

010042pe.db

Dataset Pathname:

pass6.4

Presentation Format:

micro

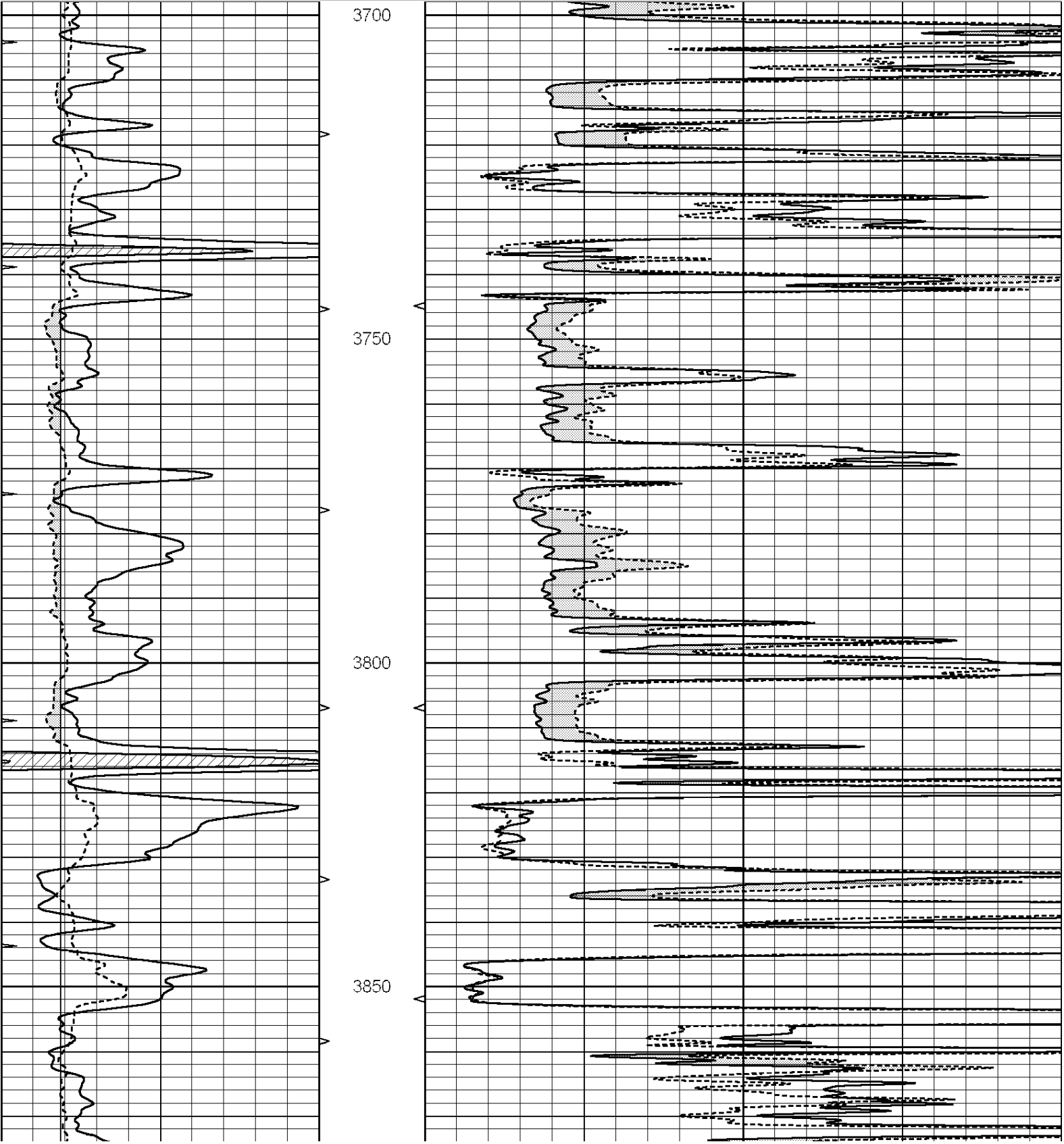
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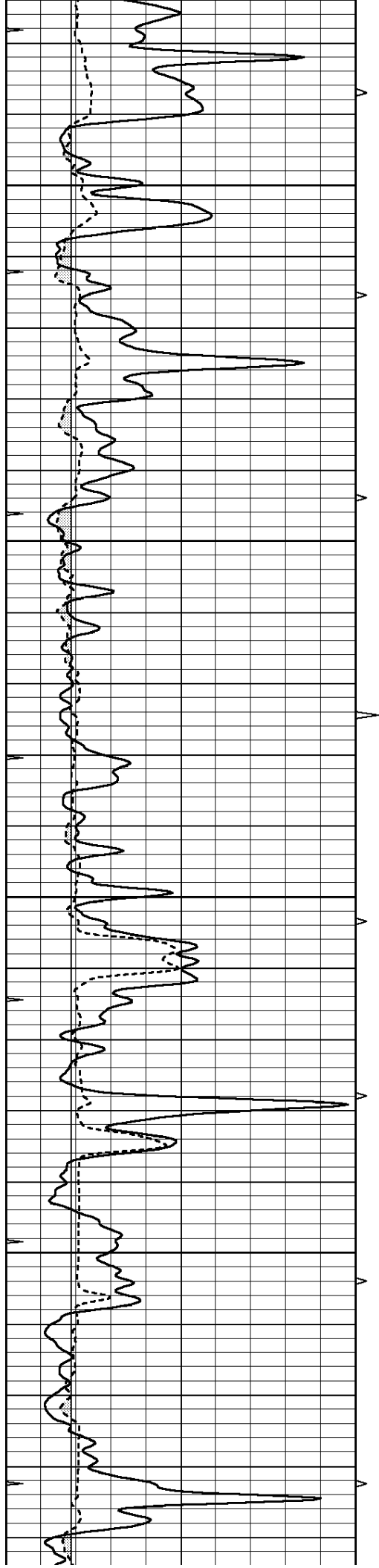
Wed Jan 09 15:37:10 2013

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		



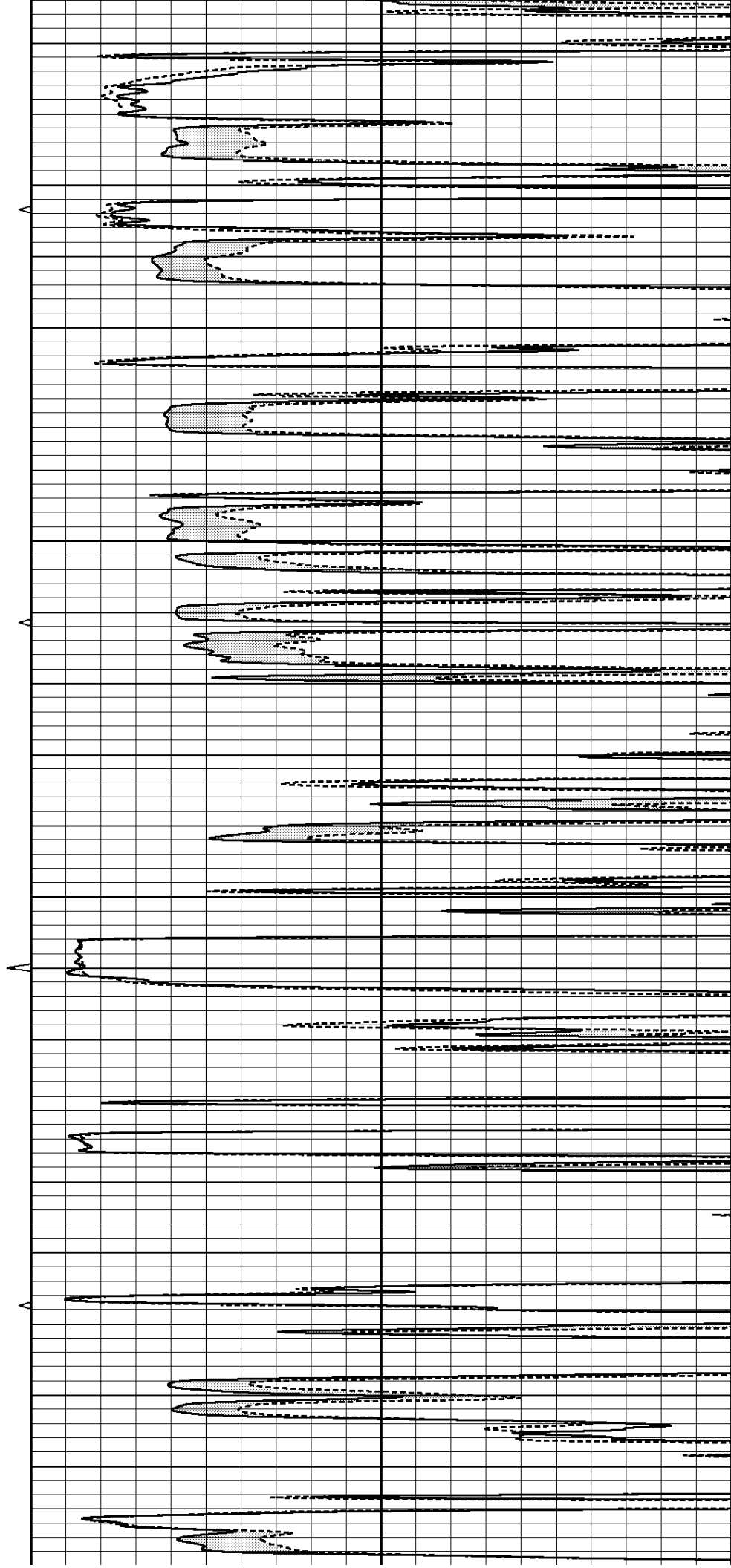


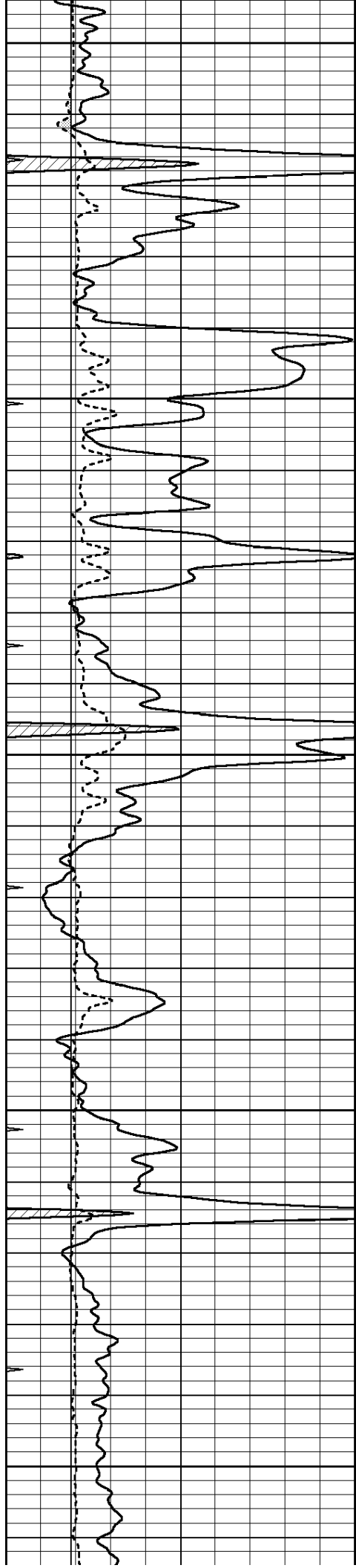
3900

3950

4000

4050





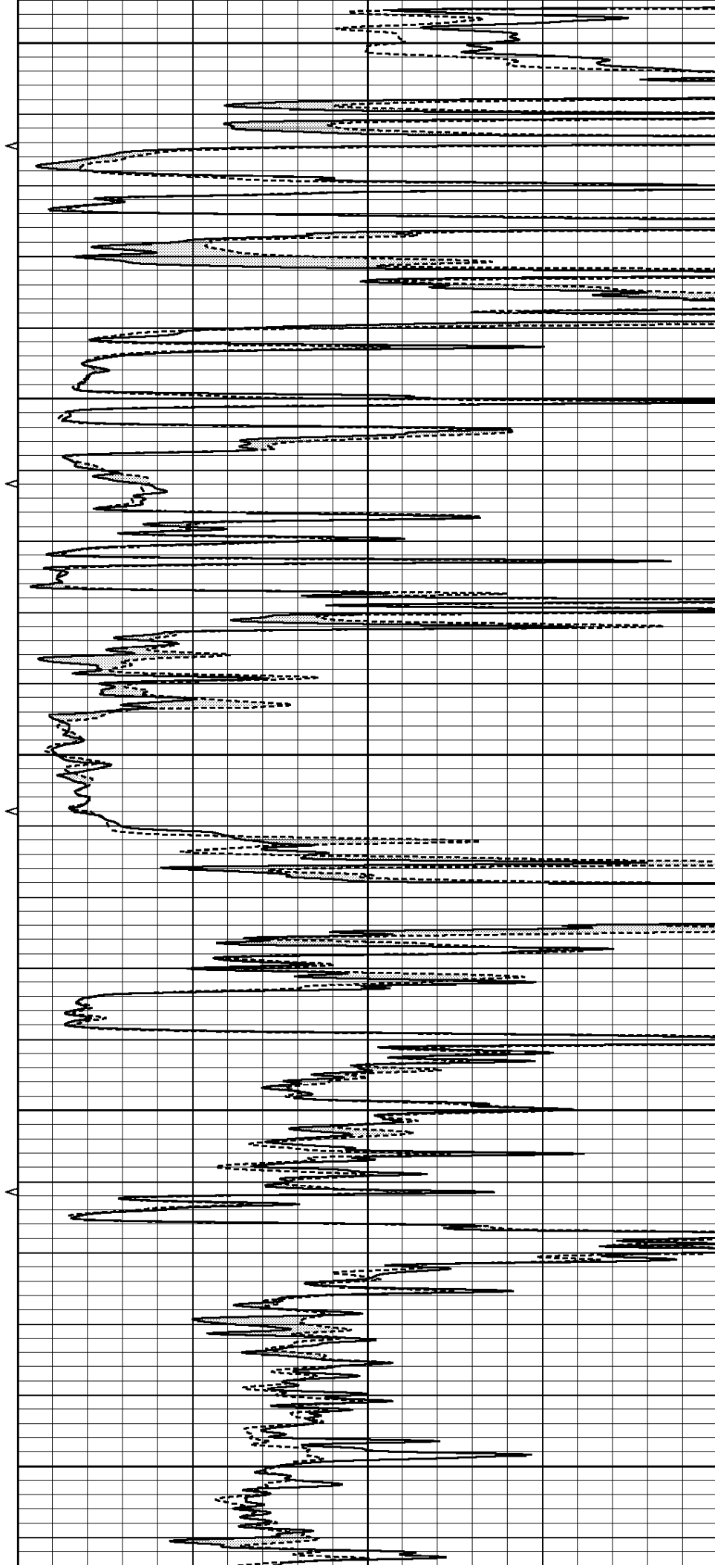
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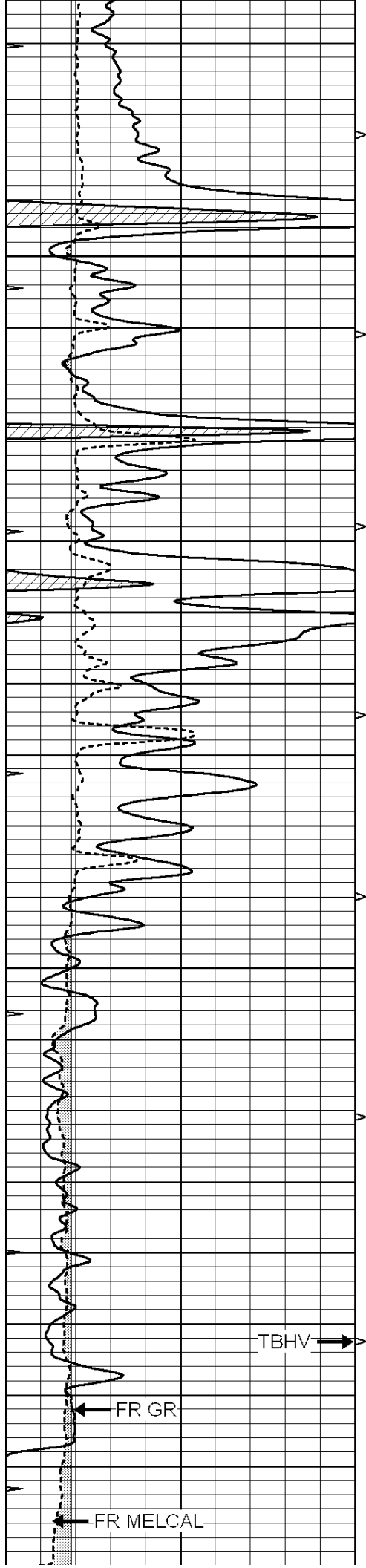
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4200

4250

4300





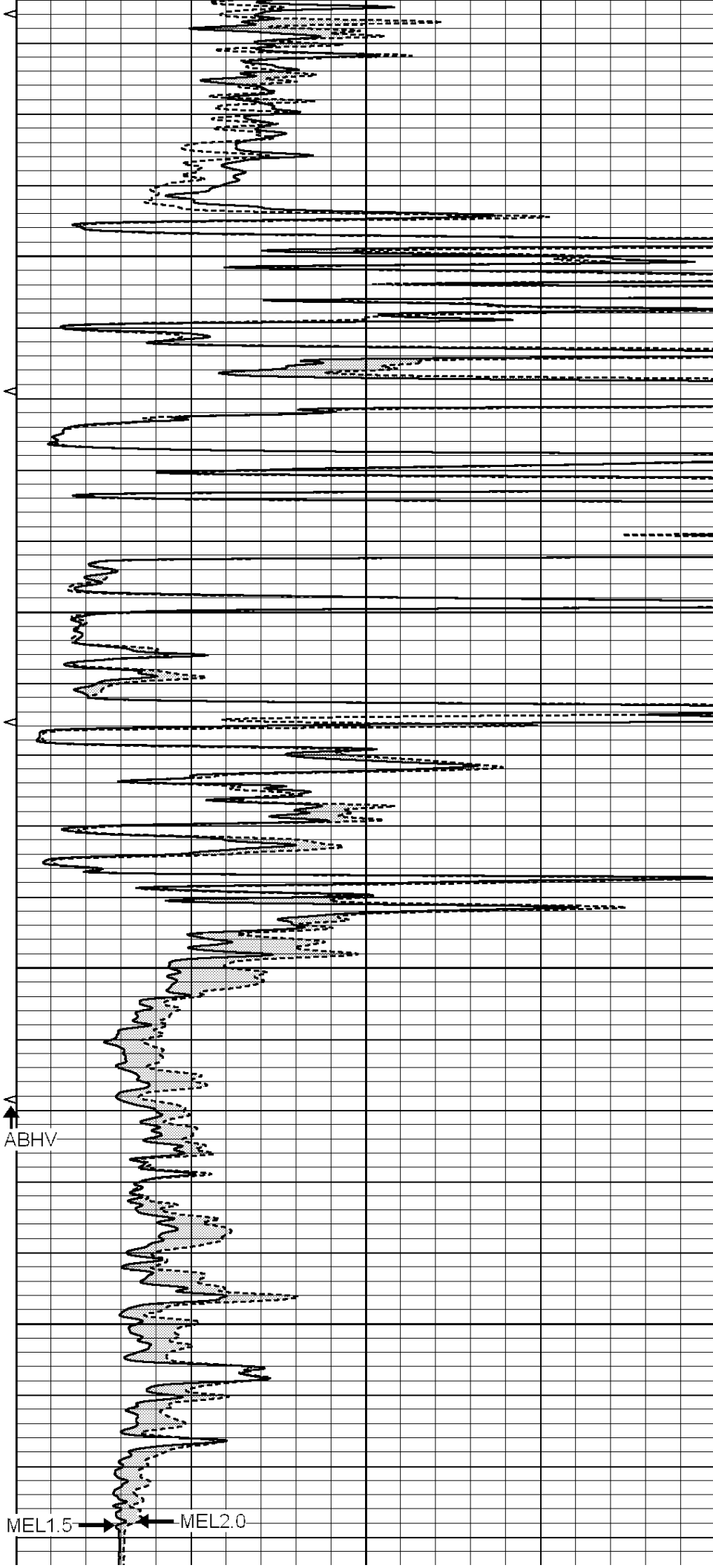
4350

4400

4450

5.5" ABHV

4500



MEL1.5

MEL2.0

			4550	LTD 4550		
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			

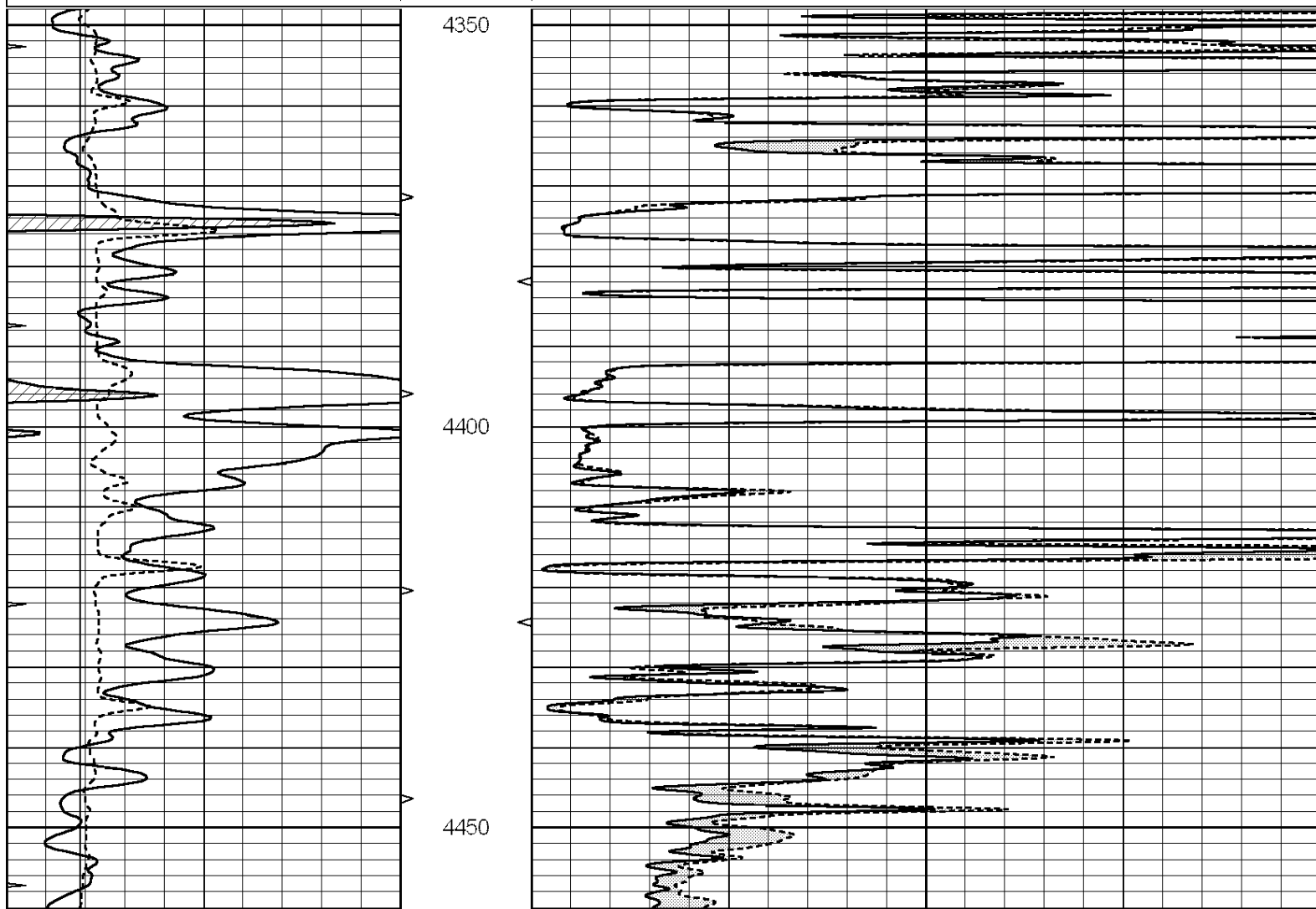


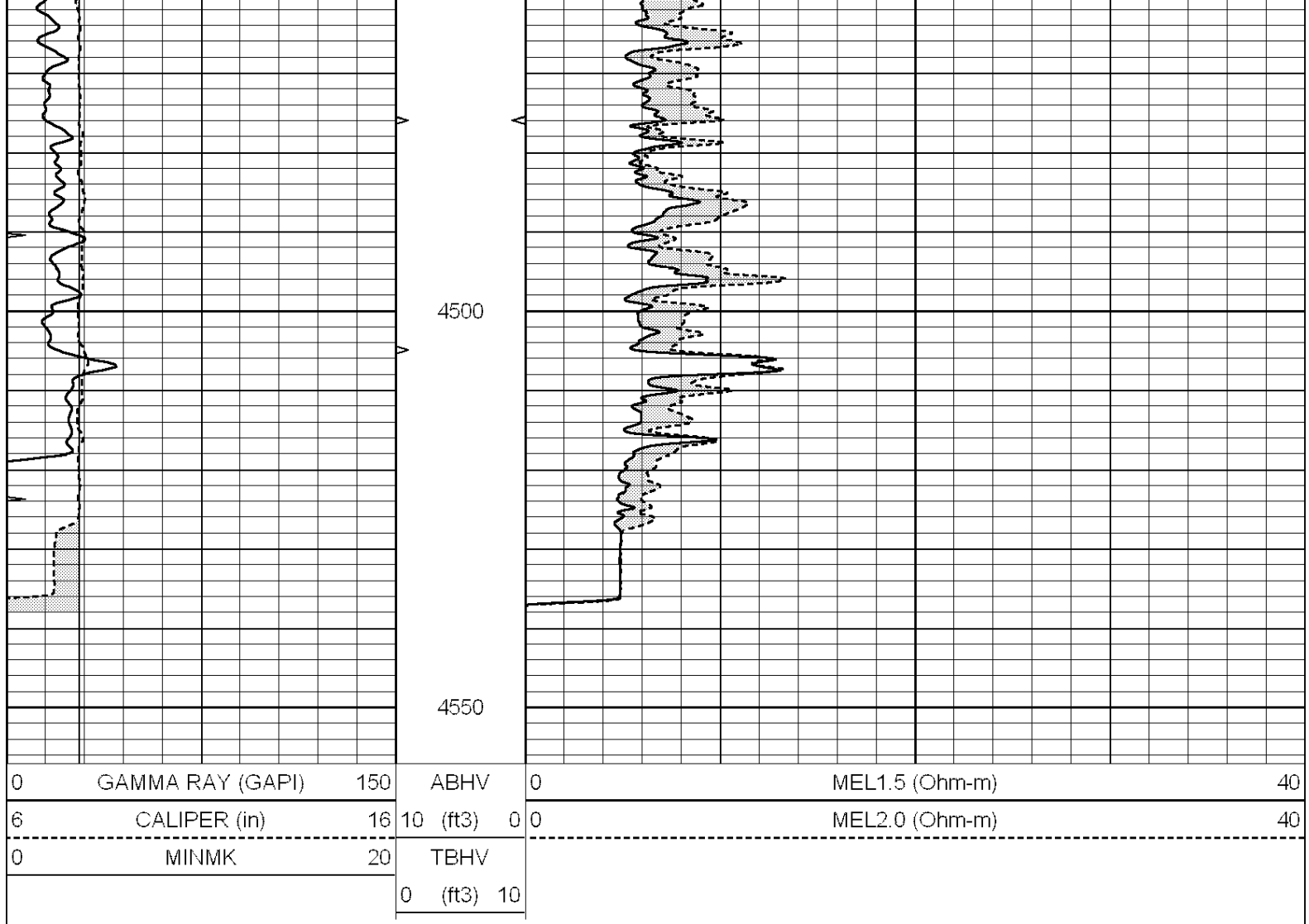
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REPEAT SECTION

Database File: 010042pe.db
Dataset Pathname: pass5.3
Presentation Format: micro
Dataset Creation: Wed Jan 09 15:14:02 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:	010042pe.db		
Dataset Pathname:	pass6.4		
Dataset Creation:	Wed Jan 09 15:37:10 2013		
MICRO Calibration Report			
Serial Number:	MICRO5		
Tool Model:	PROBE		
Performed:	Fri Dec 14 19:06:03 2012		
Caliper Calibration:	Gain=3.440	Offset=-4.099	
	Low Cal	High Cal	
References	7.500	16.000	
Readings	3.372	5.843	
1.5" Calibration:	Gain=36.000	Offset=0.000	
	Low Cal	High Cal	
References	0.000	20.000	
Readings	-0.002	0.981	
2" Calibration:	Gain=47.000	Offset=-0.200	
	Low Cal	High Cal	
References	0.000	20.000	
Readings	0.002	0.898	
Gamma Ray Calibration Report			

Serial Number:	GR4
Tool Model:	OPEN
Performed:	Sat Jan 05 12:34:29 2013

Calibrator Value:	200.0	GAPI
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Background Reading:	0.0	cps
Calibrator Reading:	189.0	cps

Sensitivity:	2.0000	GAPI/cps
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