



NABORS

**COMPLETION
& PRODUCTION
SERVICES CO.**

**MICRO
LOG**

Company		MULL DRILLING COMPANY, INC.	
Well	#1-16 HENDERSON		
Field	WILDCAT		
County	NESS	State	KANSAS
Location:	APL # : 15-135-25500-0000		Other Services CDL/CNL/PE DIL/SONIC
Permanent Datum		GROUND LEVEL	Elevation 2436
Log Measured From		KELLY BUSHING 8' A.G.L.	
Drilling Measured From		KELLY BUSHING	Elevation K.B. 2444 D.F. 2442 G.L. 2436
Date	11/7/12		
Run Number	TWO		
Depth Driller	4500		
Depth Logger	4500		
Bottom Logged Interval	4478		
Top Log Interval	3700		
Casing Driller	8 5/8" @ 233'		
Casing Logger	234		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 8,200 PPM	
Density / Viscosity	9.6/45		
pH / Fluid Loss	9.5/10.0		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	.55 @ 80F		
Rmf @ Meas. Temp	.413 @ 80F		
Rmc @ Meas. Temp	.660 @ 80F		
Source of Rmf / Rmc	MEASUREMENT		
Rim @ BHT	.364 @ 121F		
Time Circulation Stopped	4.5 HOURS		
Time Logger on Bottom	6:30 A.M.		
Maximum Recorded Temperature	121F		
Equipment Number	4854		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	KEVIN KESSLER		

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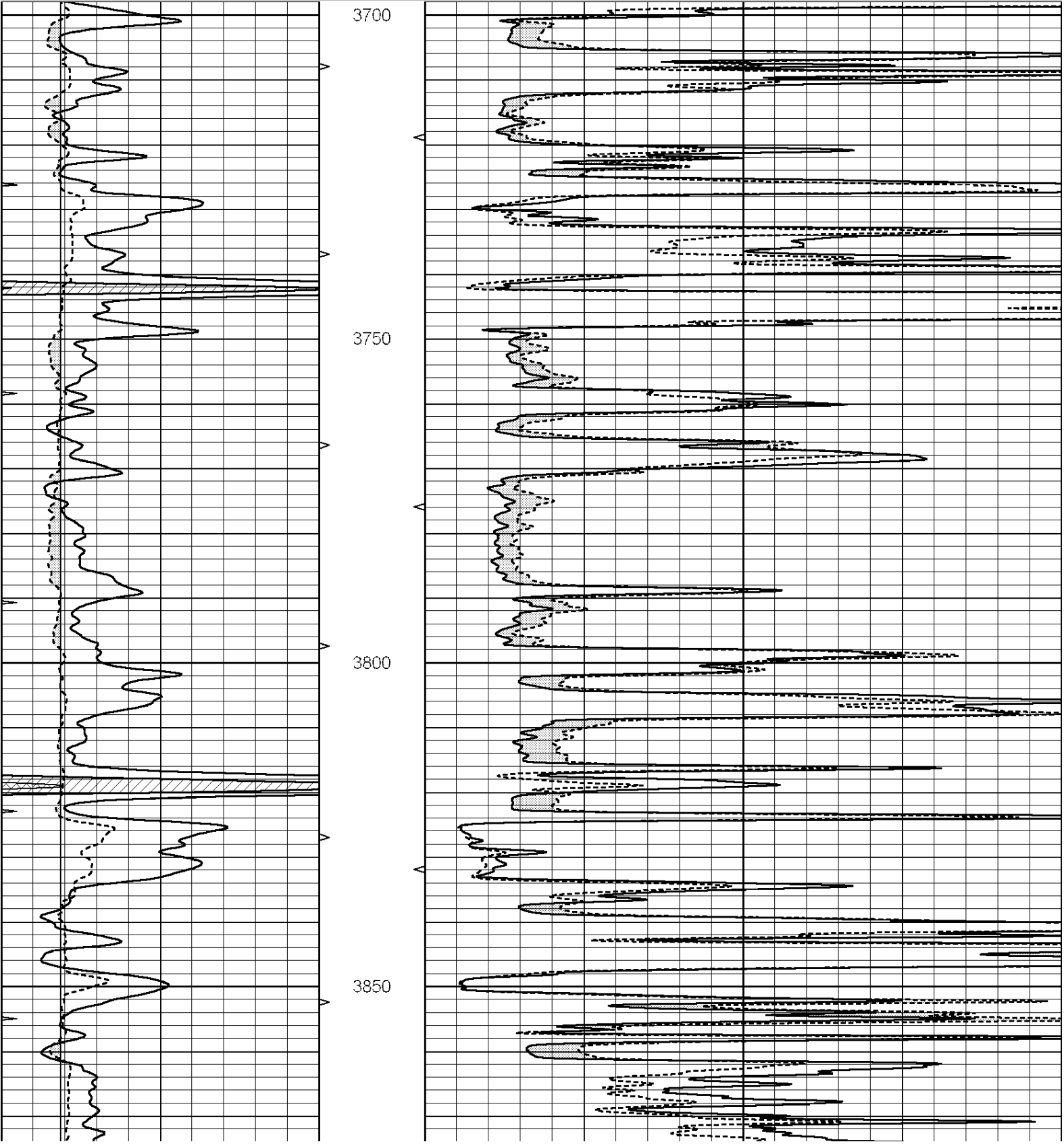
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

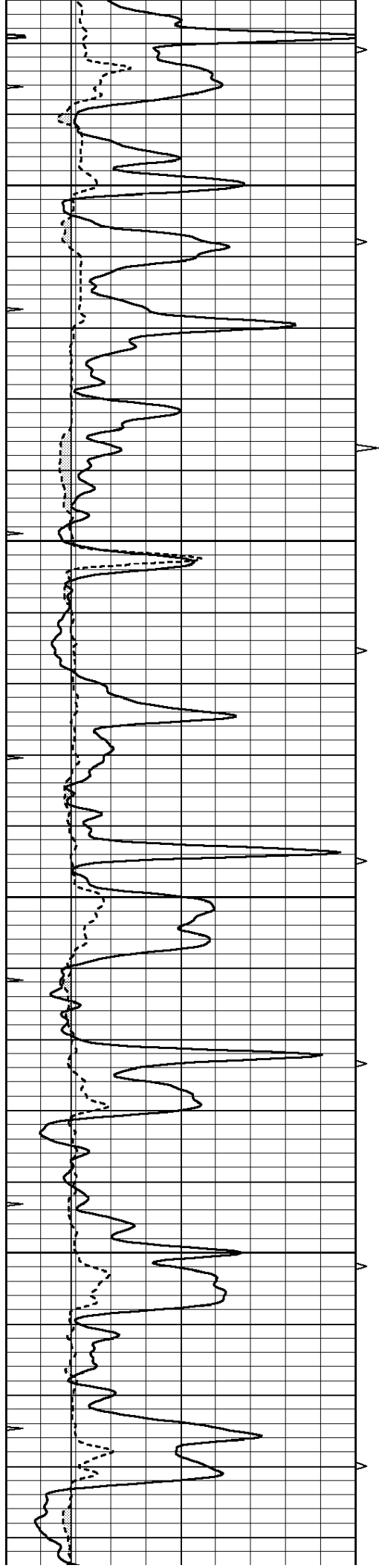
Comments

THANK YOU FOR USING "NABORS" HAYS, KANSAS (785) 628-6395
DIRECTIONS
RANSOM, KS. (HWY 4 & 283) 2N. ON HWY 283 TO "RD. 280", 1E., S. INTO

Database File: 010007pe.db
Dataset Pathname: pass6.3
Presentation Format: micro
Dataset Creation: Wed Nov 07 09:19:12 2012
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
0	MINMK	20	TBHV			
			0 (ft3)	10		



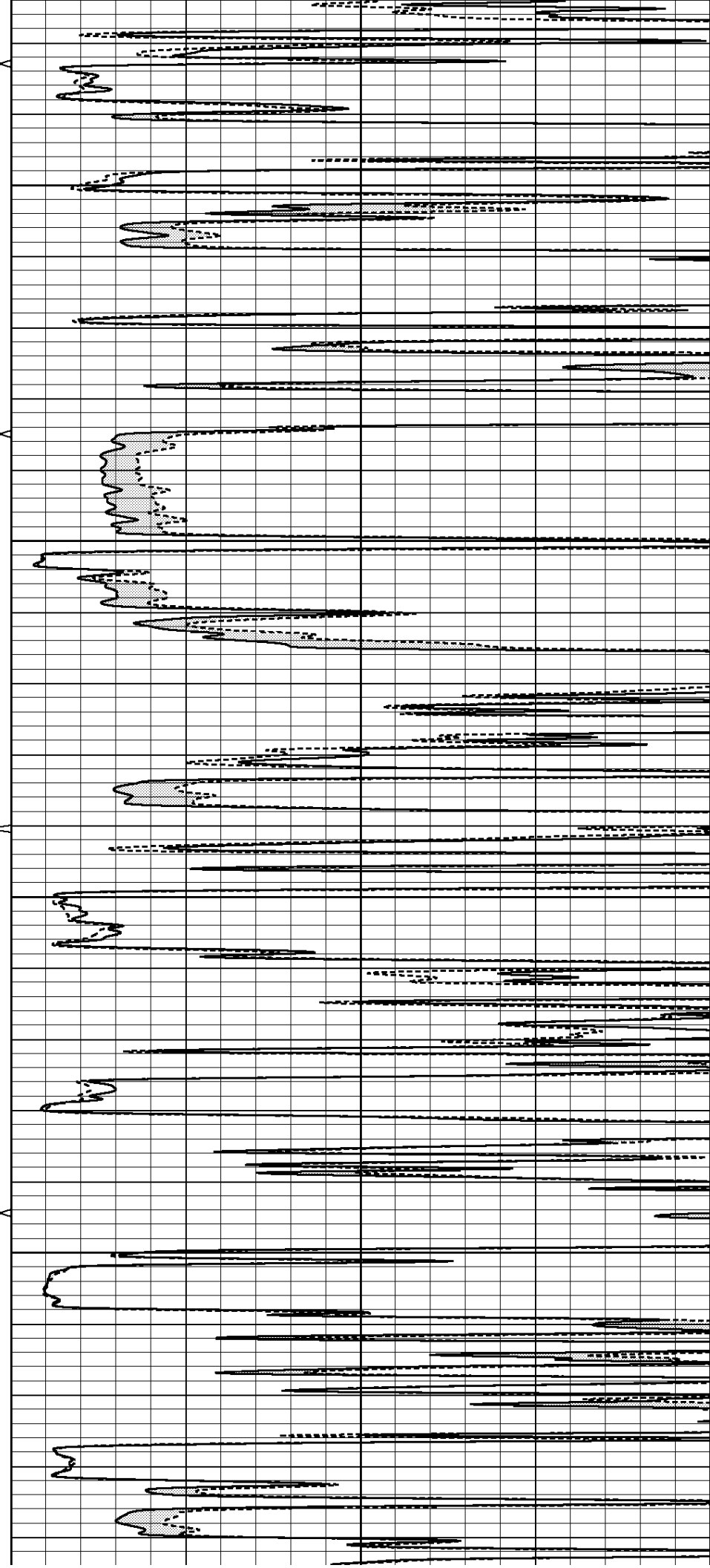


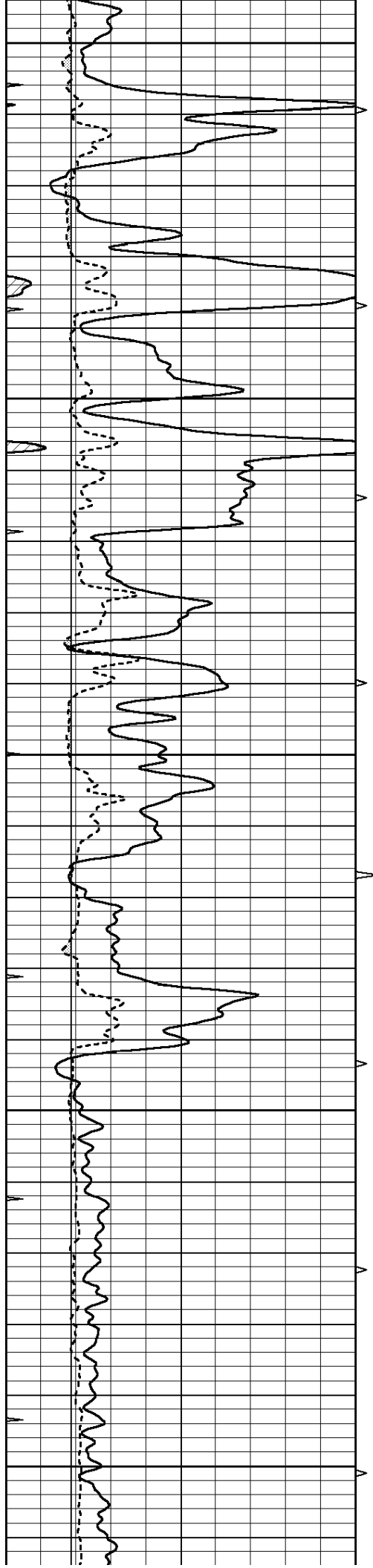
3900

3950

4000

4050





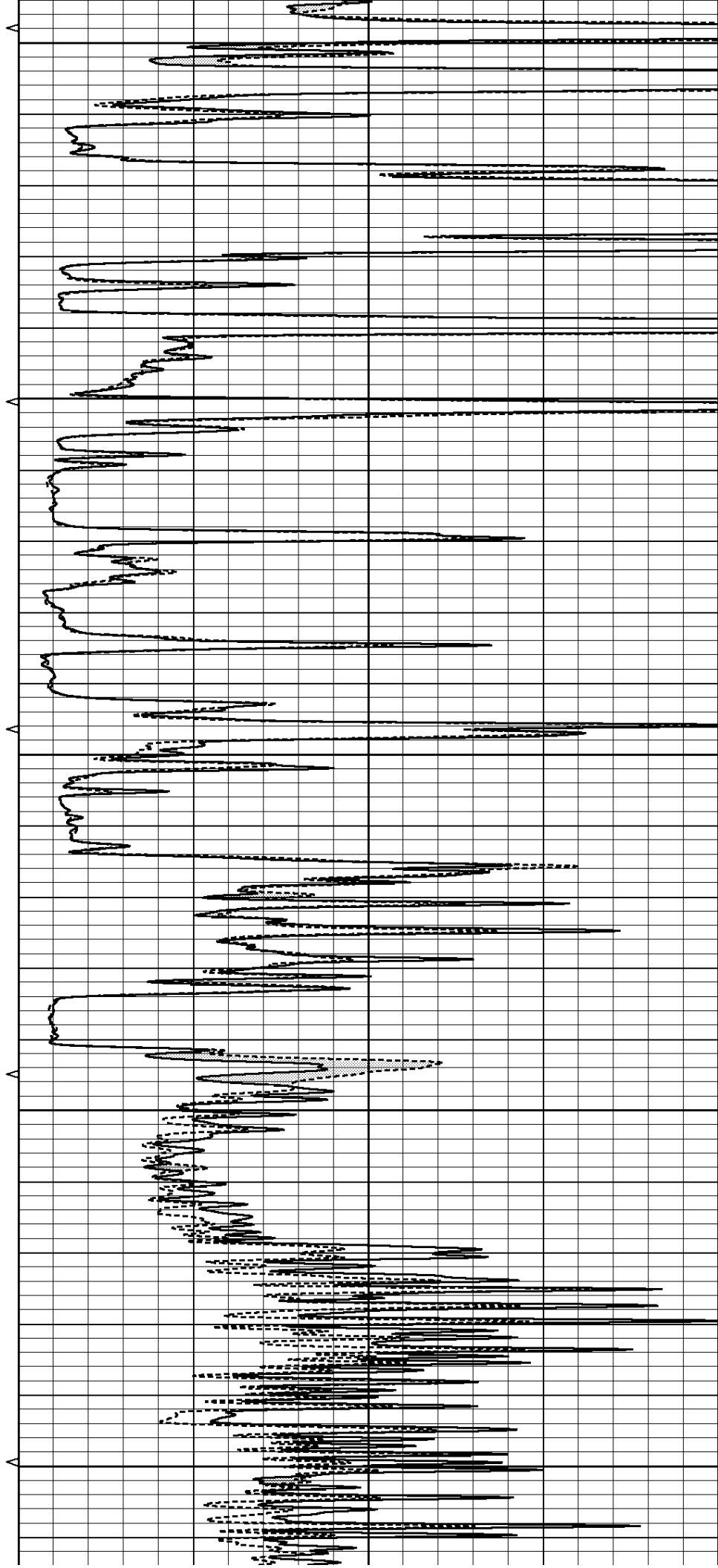
4100

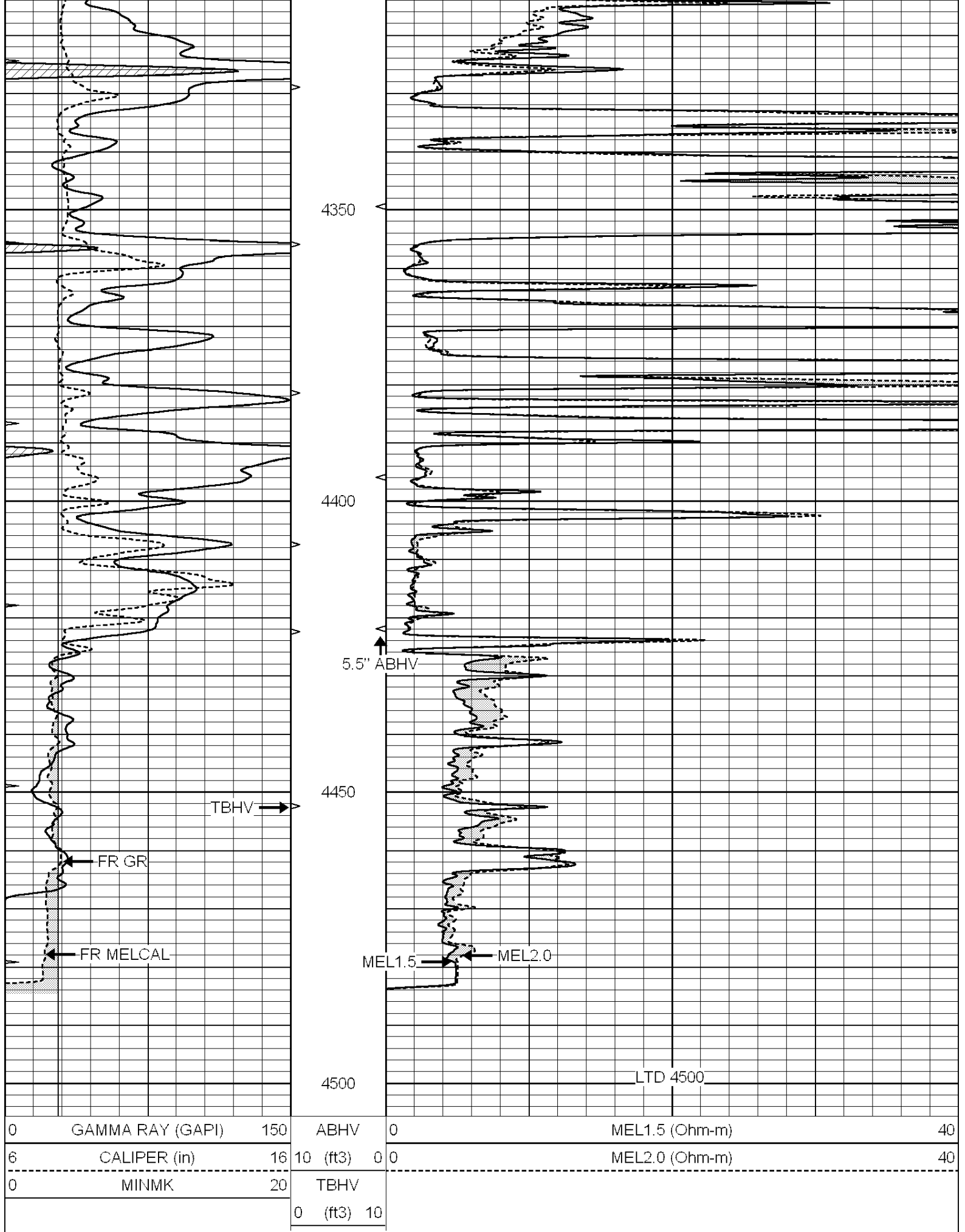
4150

4200

4250

4300

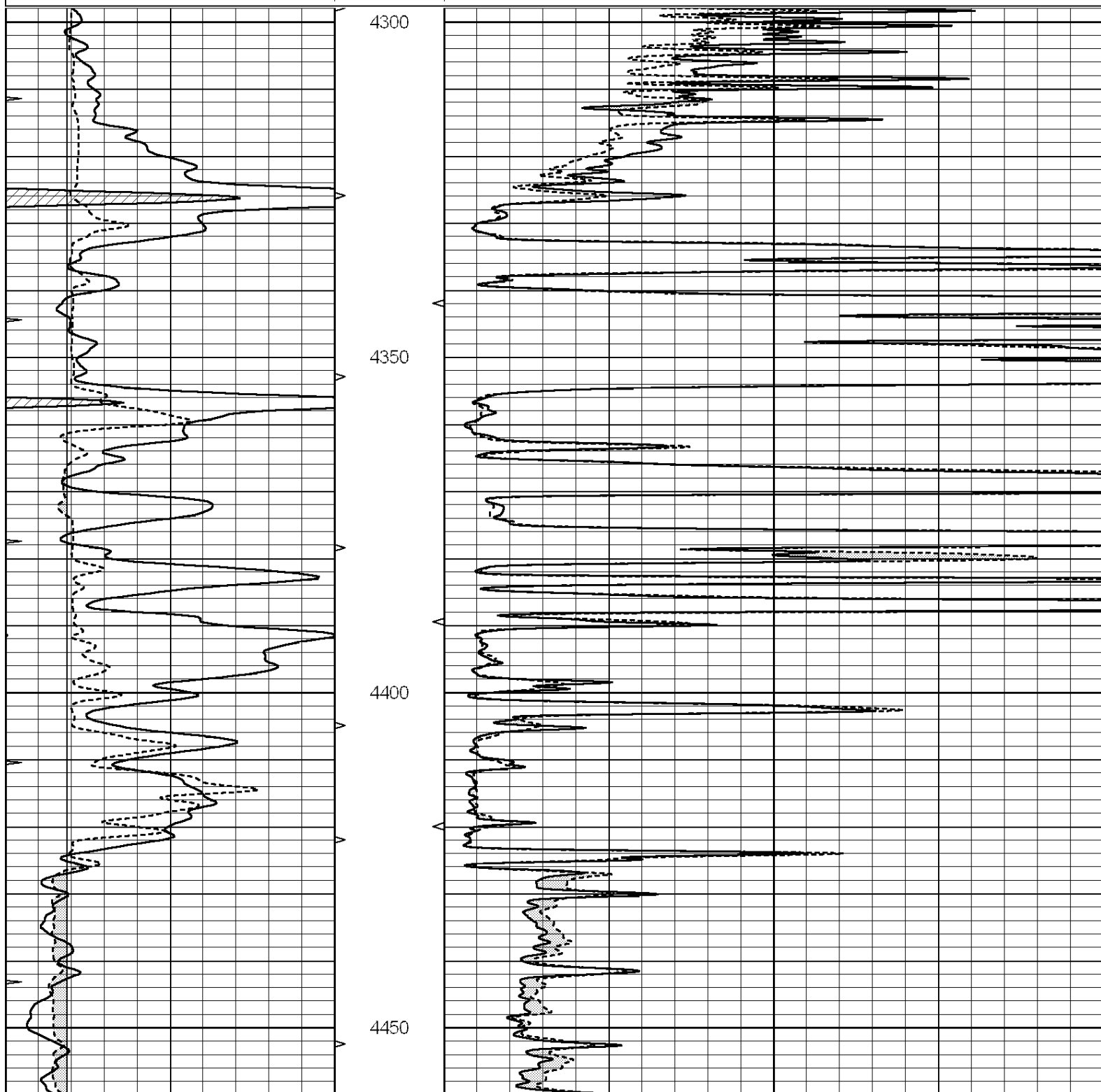


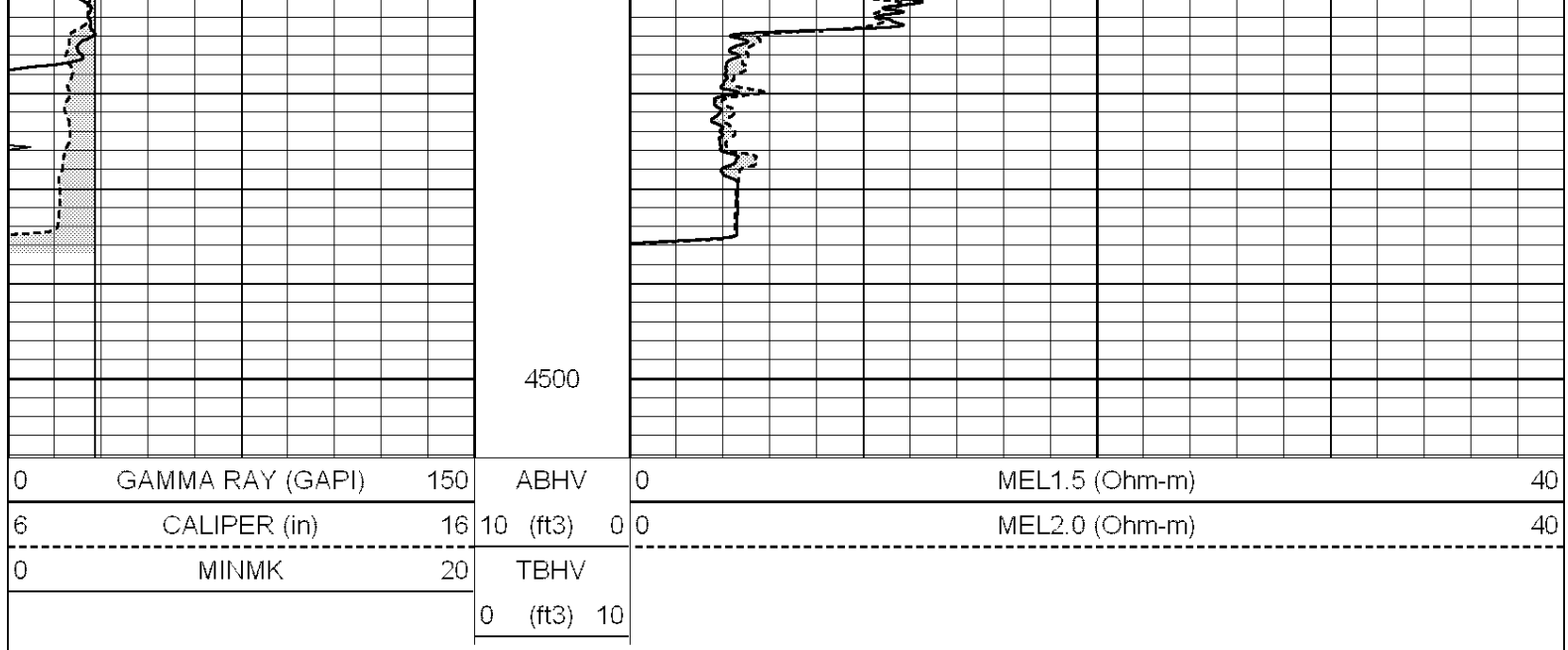


REPEAT SECTION

Database File: 010007pe.db
 Dataset Pathname: pass5.2
 Presentation Format: micro
 Dataset Creation: Wed Nov 07 08:58:59 2012
 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:	010007pe.db		
Dataset Pathname:	pass6.3		
Dataset Creation:	Wed Nov 07 09:19:12 2012		
MICRO Calibration Report			
Serial Number:	MICRO5		
Tool Model:	PROBE		
Performed:	Sat Nov 03 22:54:26 2012		
Caliper Calibration:	Gain=4.000	Offset=-8.400	
	Low Cal	High Cal	
References	8.000	16.000	
Readings	4.100	6.100	
1.5" Calibration:	Gain=36.000	Offset=-0.500	
	Low Cal	High Cal	
References	0.000	20.000	
Readings	-0.002	0.981	
2" Calibration:	Gain=46.000	Offset=-0.600	
	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:	Tue Nov 06 02:31:57 2012		
Calibrator Value:	200.0	GAPI	
Background Reading:	0.0	cps	
Calibrator Reading:	189.0	cps	
Sensitivity:	2.0000	GAPI/cps	