



**COMPLETION
& PRODUCTION
SERVICES CO.**

**MICRO
LOG**

Company MULL DRILLING COMPANY, INC.
Well #1-15 SARGENT
Field WILDCAT
County NESS
State KANSAS

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Location: API # : 15-135-25524-0000
2235' FSL & 335' FWL
SEC 15 TWP 17S RGE 23W
Permanent Datum GROUND LEVEL Elevation 2439
Log Measured From KELLY BUSHING 5' A.G.L.
Drilling Measured From KELLY BUSHING
Other Services
CDL/CNL/PE
DIL/SONIC
Elevation
K.B. 2444
D.F. 2442
G.L. 2439

Date	1/17/13
Run Number	TWO
Depth Driller	4550
Depth Logger	4552
Bottom Logged Interval	4530
Top Log Interval	3700
Casing Driller	8 5/8"@223'
Casing Logger	223
Bit Size	7 7/8"
Type Fluid in Hole	CHEMICAL MUD
Density / Viscosity	9.0/50
pH / Fluid Loss	10.5/7.2
Source of Sample	FLOWLINE
Rim @ Meas. Temp	.750@80F
Rmf @ Meas. Temp	.563@80F
Rmc @ Meas. Temp	.900@80F
Source of Rmf / Rmc	MEASUREMENT
Rim @ BHT	.496@121F
Time Circulation Stopped	4.5 HOURS
Time Logger on Bottom	4:45 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

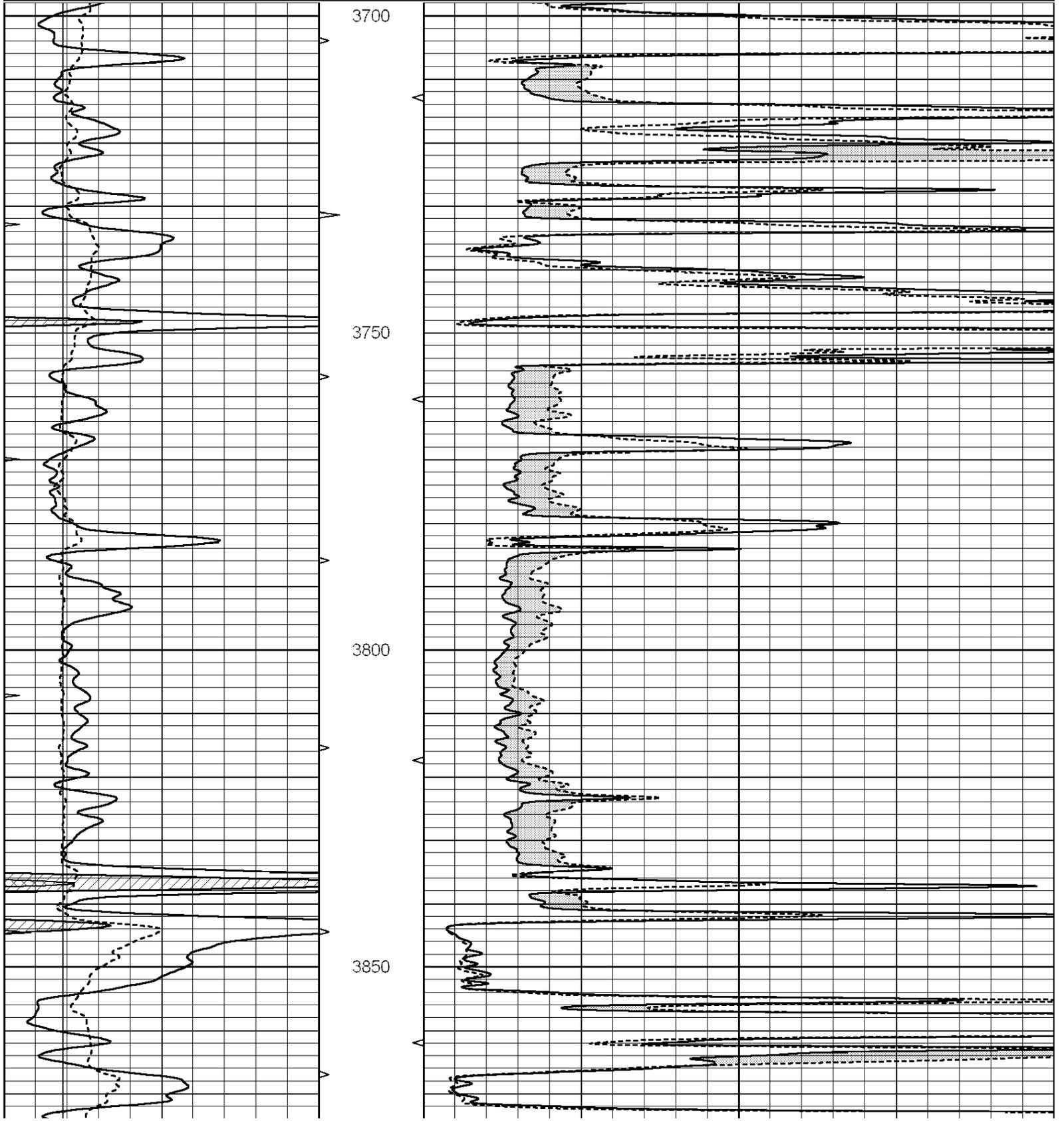
THANK YOU FOR USING "NABORS" HAYS, KANSAS (785) 628-6395
DIRECTIONS
RANSOM, KS. (HWY 4 & 283) 5S. TO "RD. 210", 2E. TO CURVE, 1/2N., E. INTO

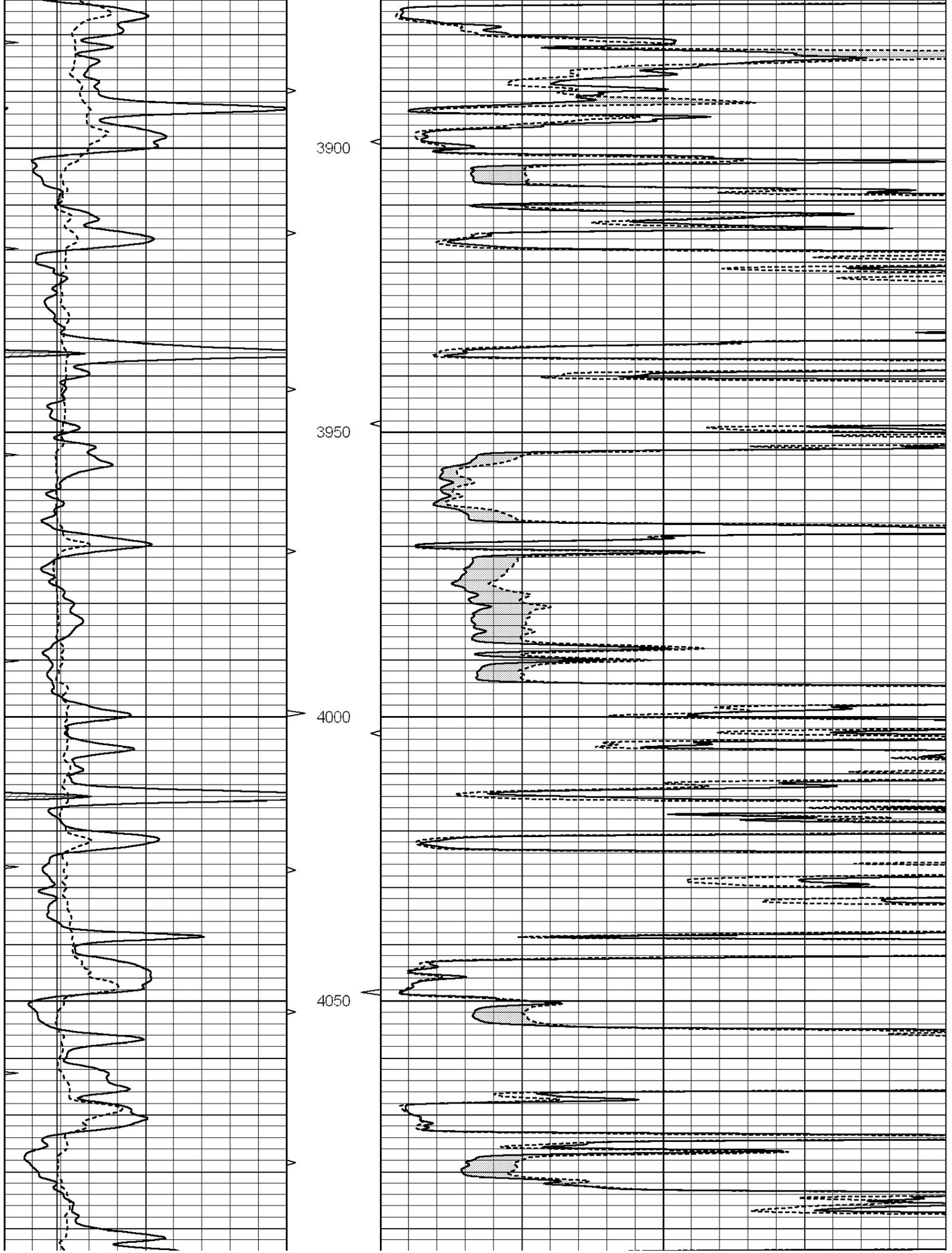


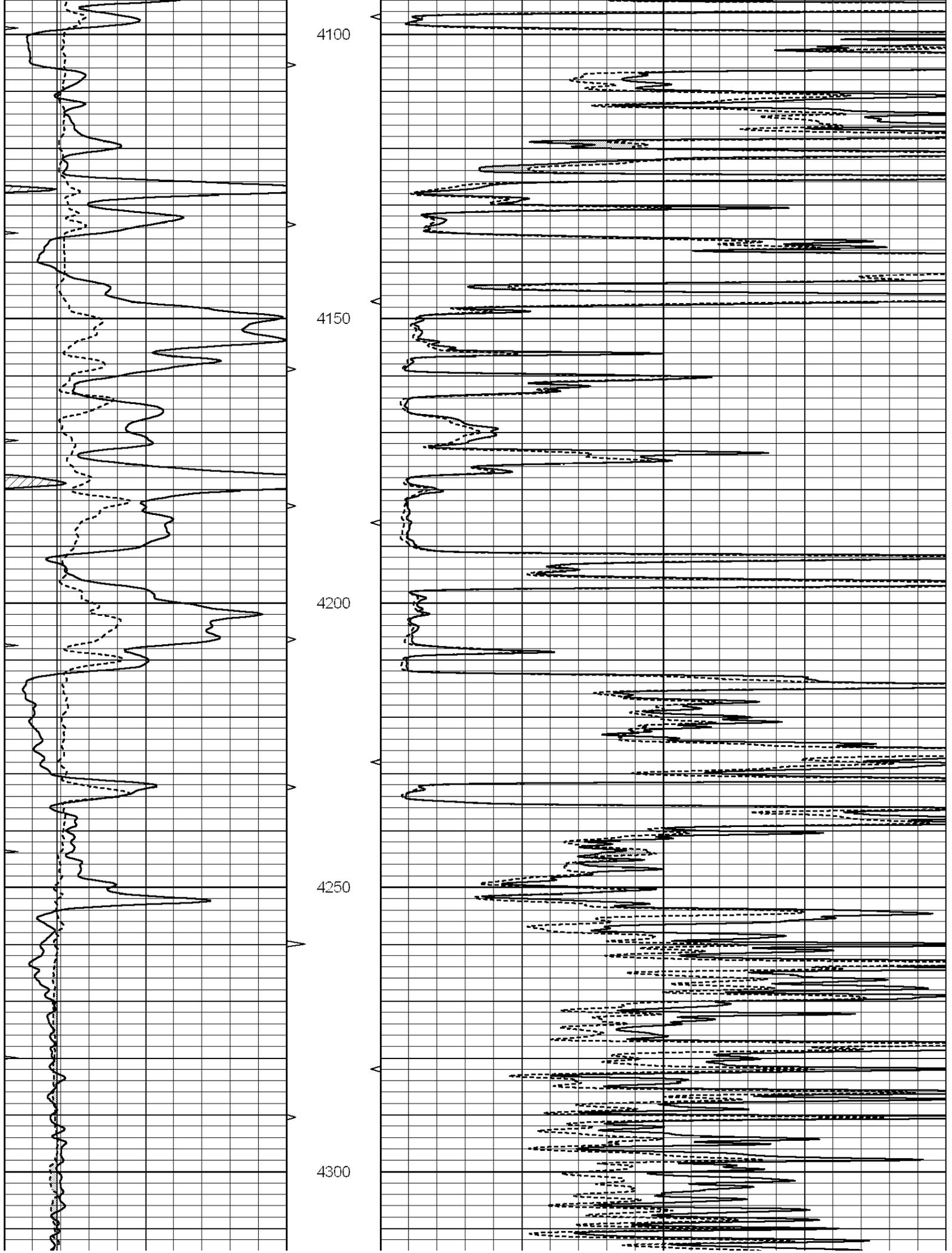
MAIN SECTION

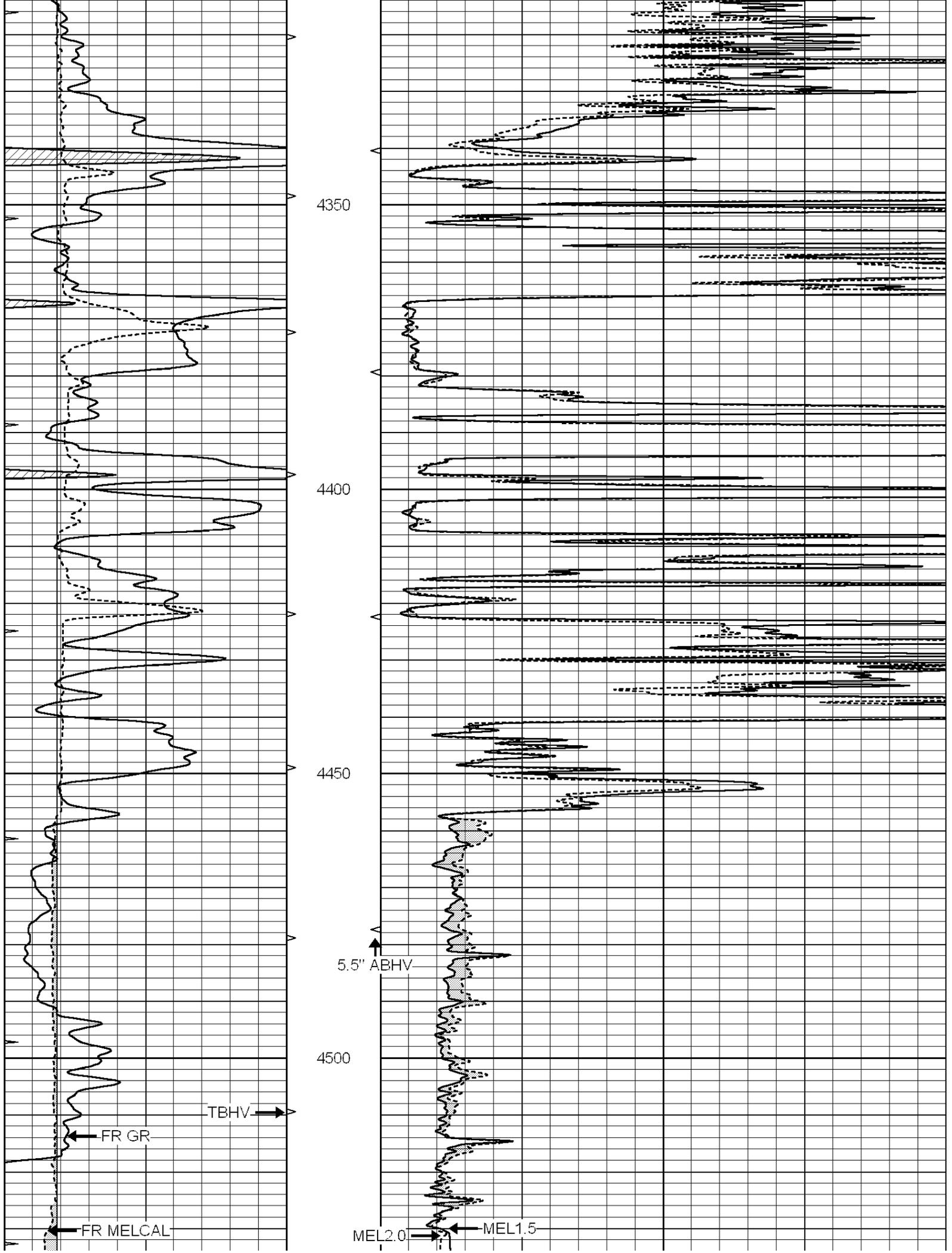
Database File: 010047pe.db
 Dataset Pathname: pass4.11
 Presentation Format: micro
 Dataset Creation: Thu Jan 17 09:34:46 2013
 Charted by: Depth in Feet scaled 1:240

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		









4550
LTD 4552

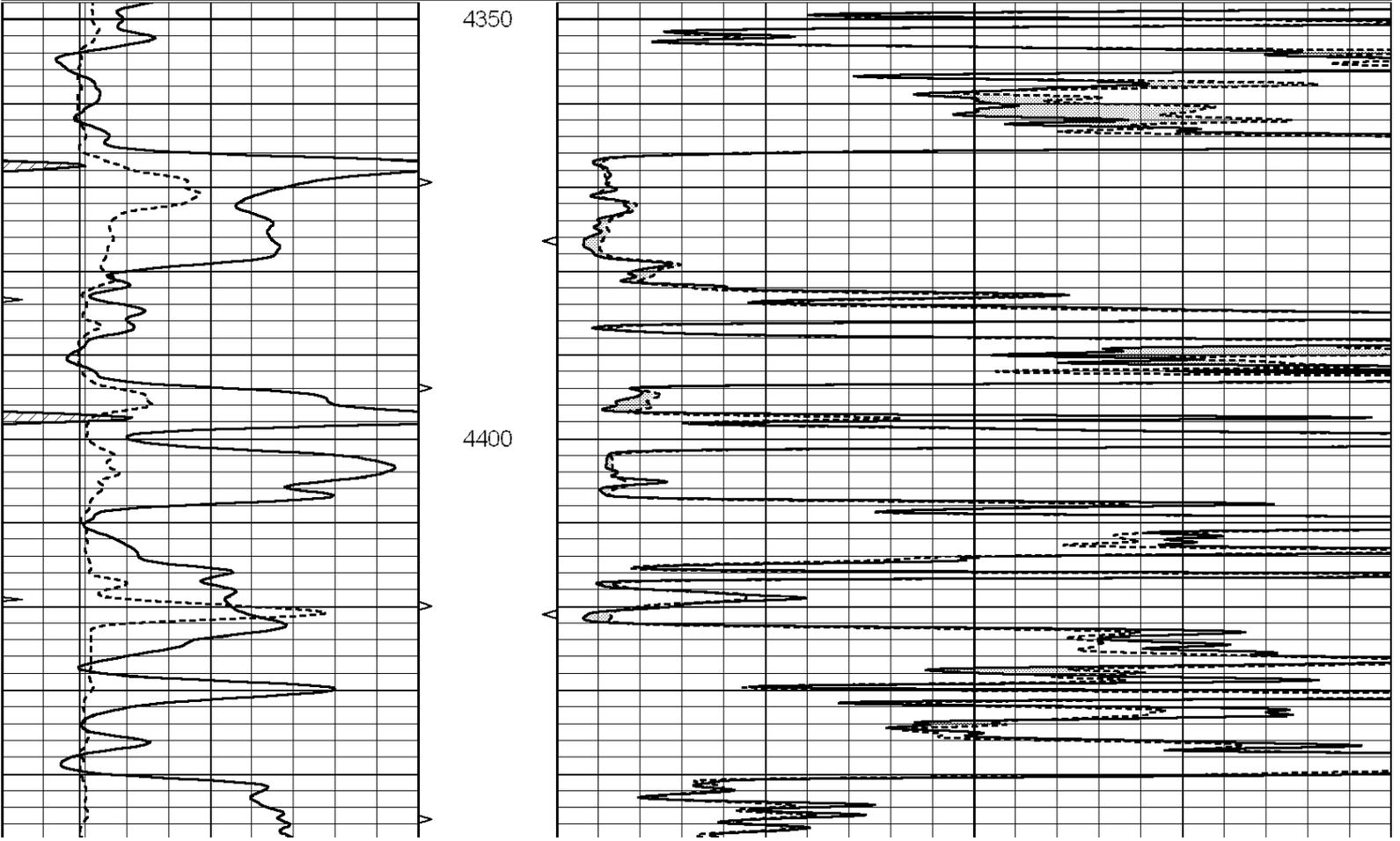
0	GAMMA RAY (GAPI)	150	ABHV	0	MEL1.5 (Ohm-m)	40
6	CALIPER (in)	16	10 (ft3) 0	0	MEL2.0 (Ohm-m)	40
0	MINMK	20	TBHV			
			0 (ft3) 10			

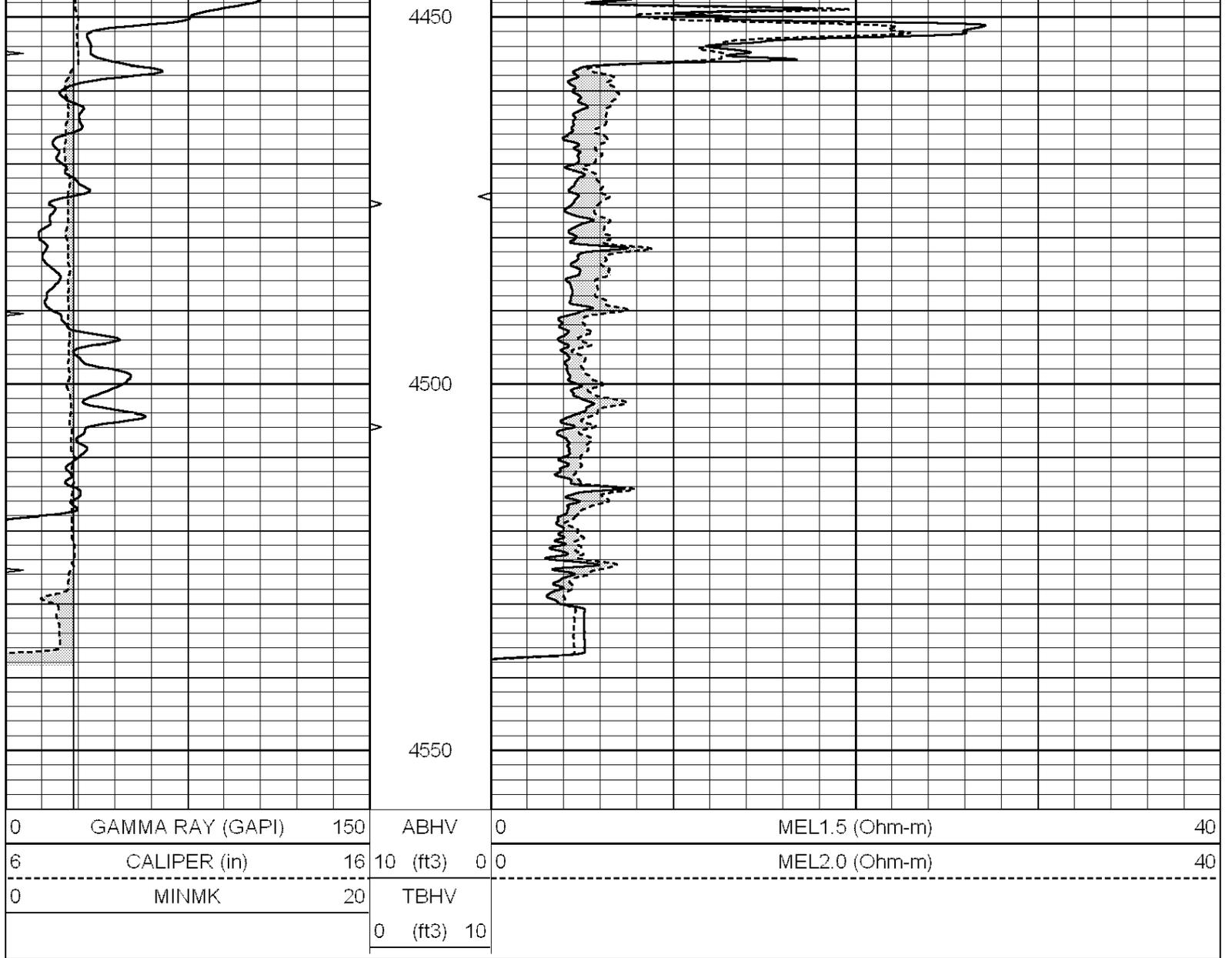


REPEAT SECTION

Database File: 010047pe.db
 Dataset Pathname: pass3.5
 Presentation Format: micro
 Dataset Creation: Thu Jan 17 09:33:34 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	0	MEL2.0 (Ohm-m)	40
0	MINMK	20	TBHV			
			0 (ft3) 10			





Calibration Report

Database File: 010047pe.db
 Dataset Pathname: pass4.11
 Dataset Creation: Thu Jan 17 09:34:46 2013

MICRO Calibration Report

Serial Number: MICRO5
 Tool Model: PROBE
 Performed: Thu Jan 17 07:44:54 2013

Caliper Calibration: Gain=3.536 Offset=-5.013

References	Low Cal	High Cal
Readings	8.200	15.000
	3.737	5.660

1.5" Calibration: Gain=35.000 Offset=-0.500

References	Low Cal	High Cal
Readings	0.000	20.000
	0.014	0.998

2" Calibration: Gain=55.000 Offset=-1.000

References	Low Cal	High Cal
Readings		

References	0.000	20.000
Readings	0.009	0.904

Gamma Ray Calibration Report

Serial Number:	GR4	
Tool Model:	OPEN	
Performed:	Thu Jan 17 06:43:30 2013	
Calibrator Value:	200.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	189.0	cps
Sensitivity:	1.5000	GAPI/cps