



MICRO LOG

Company DEUTSCH OIL COMPANY		Company DEUTSCH OIL COMPANY	
Well	ZINK "B" #1-4	Well	ZINK "B" #1-4
Field	BAUMAN	Field	BAUMAN
County	PRATT	County	PRATT
State	KANSAS	State	KANSAS
Location:		API # : 15-151-22460-0000	Other Services CDL/CNL/PE DIL
SEC 4 TWP 26S RGE 11W		Elevation	
Permanent Datum	GROUND LEVEL	Elevation	K.B. 1838
Log Measured From	KELLY BUSHING 7' A.G.L	D.F.	1836
Drilling Measured From	KELLY BUSHING	G.L.	1831
Date	4/18/17		
Run Number	TWO		
Depth Driller	4130		
Depth Logger	4133		
Bottom Logged Interval	4131		
Top Log Interval	3200		
Casing Driller	8 5/8" @ 297		
Casing Logger	296		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES	5000 PPM
Density / Viscosity	9.3/56		
pH / Fluid Loss	11.0/9.2		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.52 @ 87F		
Rmf @ Meas. Temp	.39 @ 87F		
Rmc @ Meas. Temp	.62 @ 87F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.38 @ 118F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	118F		
Equipment Number	3802		
Location	HAYS, KANSAS		
Recorded By	JASON CAPPELLUCCI		
Witnessed By	AARON YOUNG		

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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

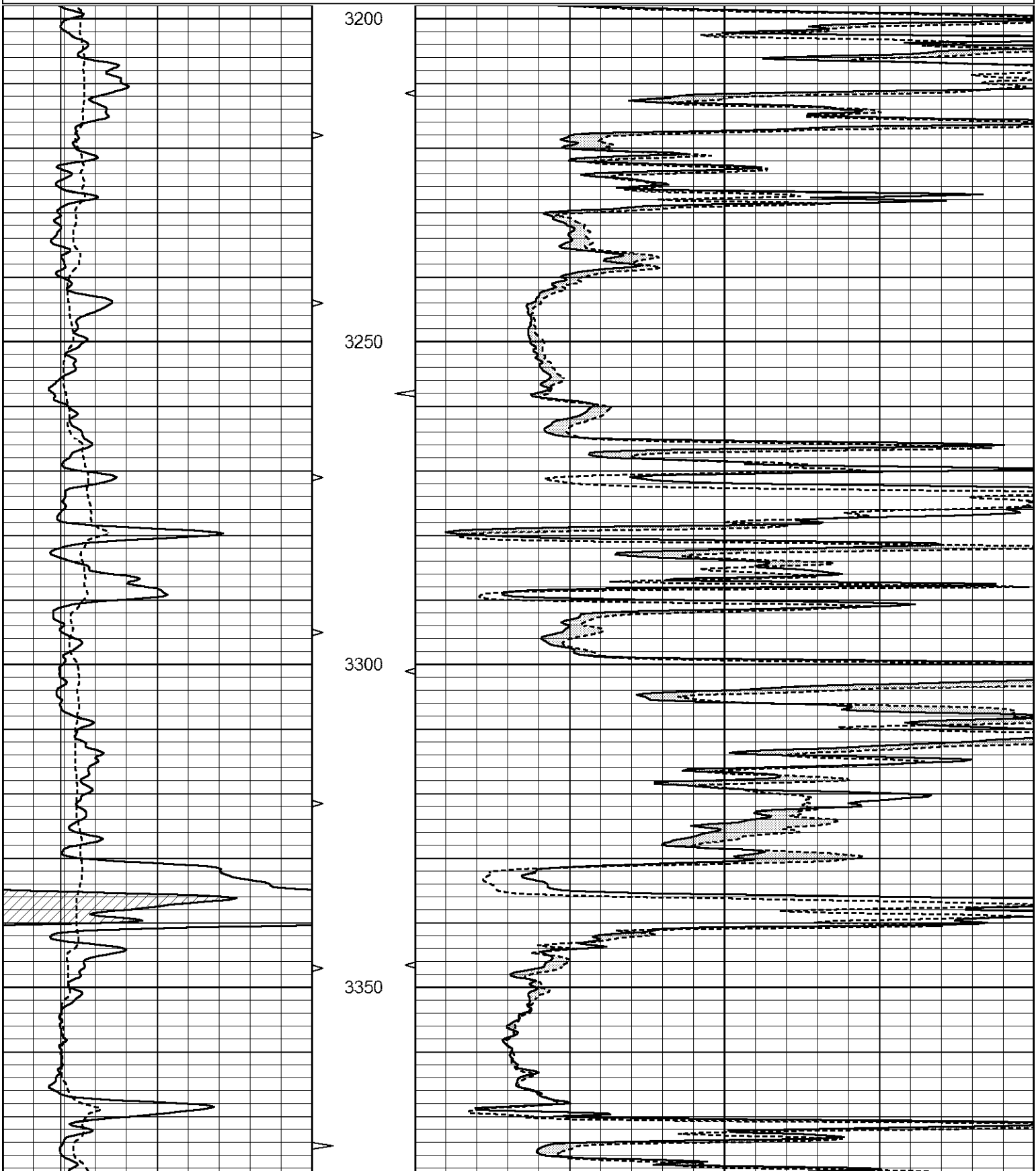
THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
DIRECTIONS
TURON, KS. - 4 WEST ON 110 RD. - 1/2 NORTH - WEST INTO

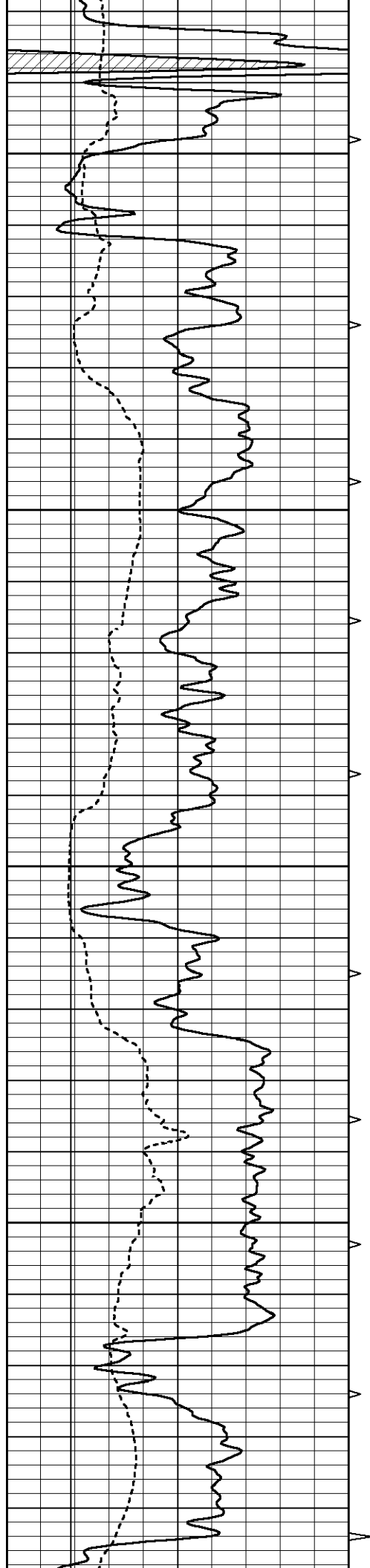


MAIN SECTION

Database File	1136pe8.db
Dataset Pathname	pass6.1
Presentation Format	_micro
Dataset Creation	Tue Apr 18 16:53:46 2017
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		



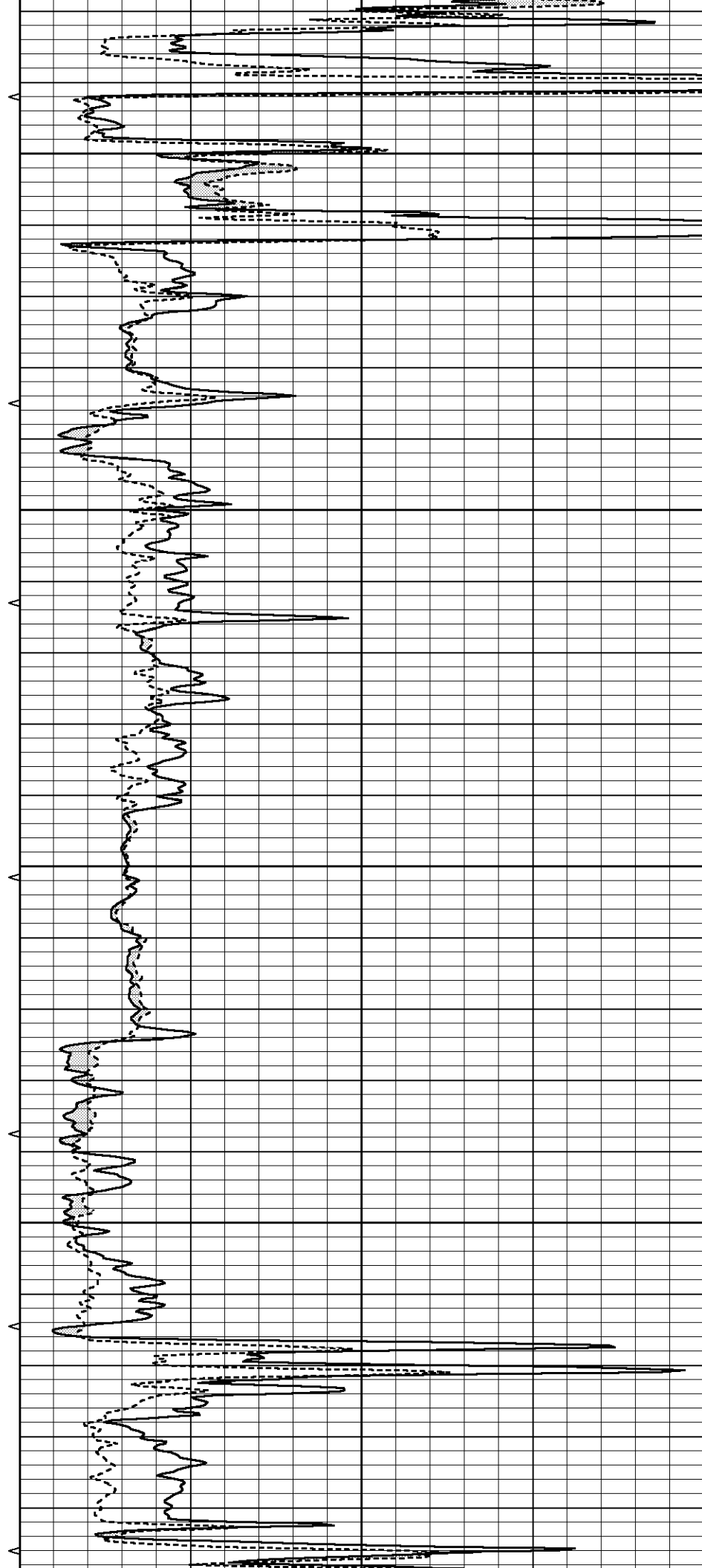


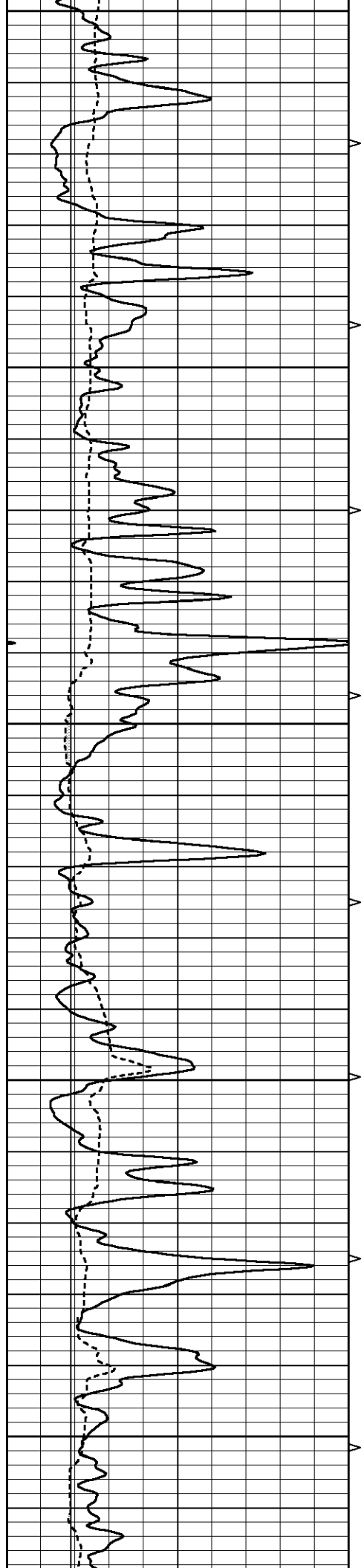
3400

3450

3500

3550





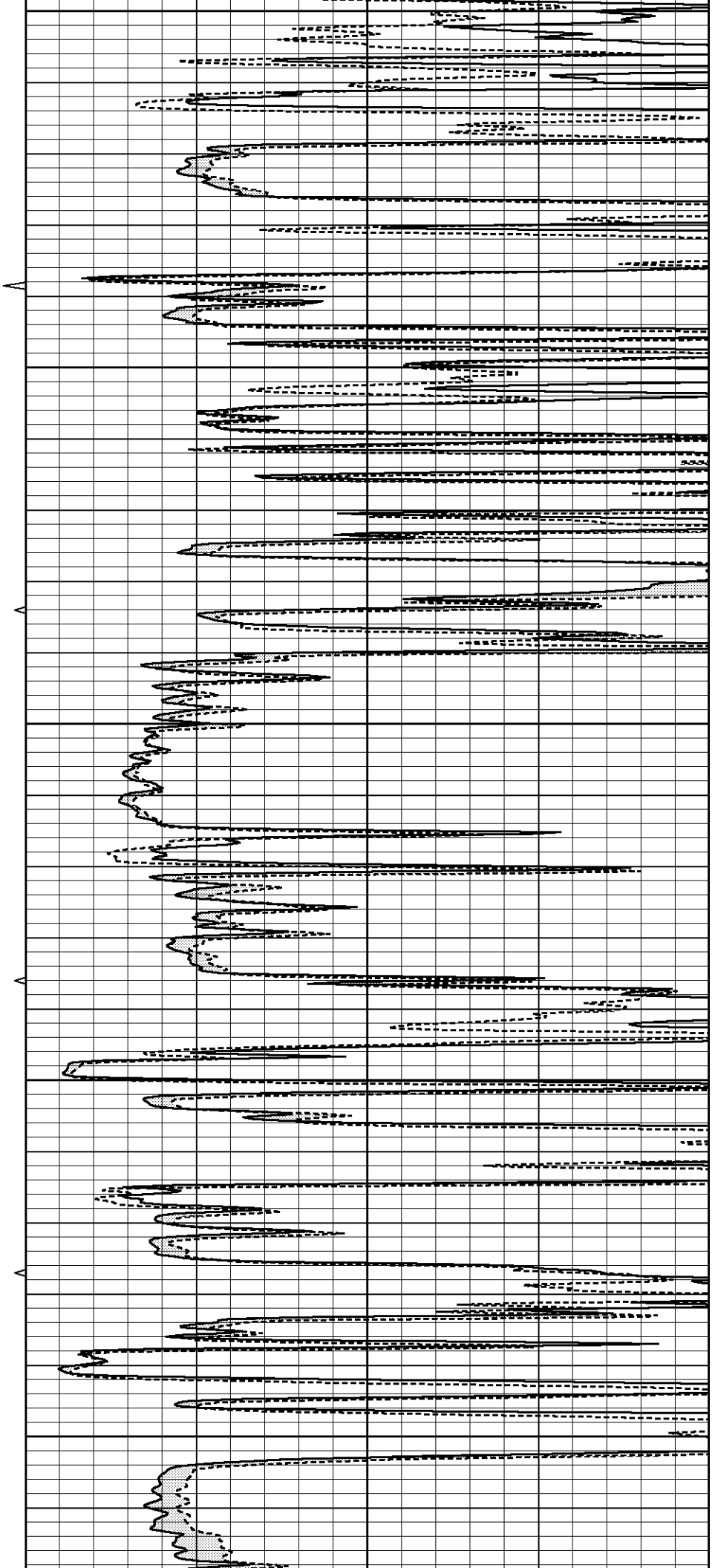
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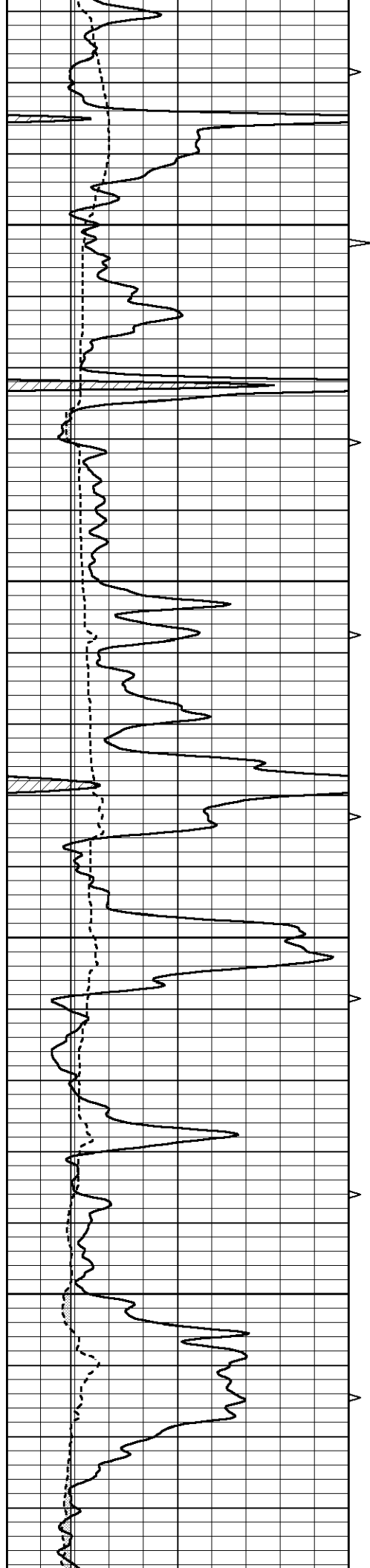
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3700

3750

3800



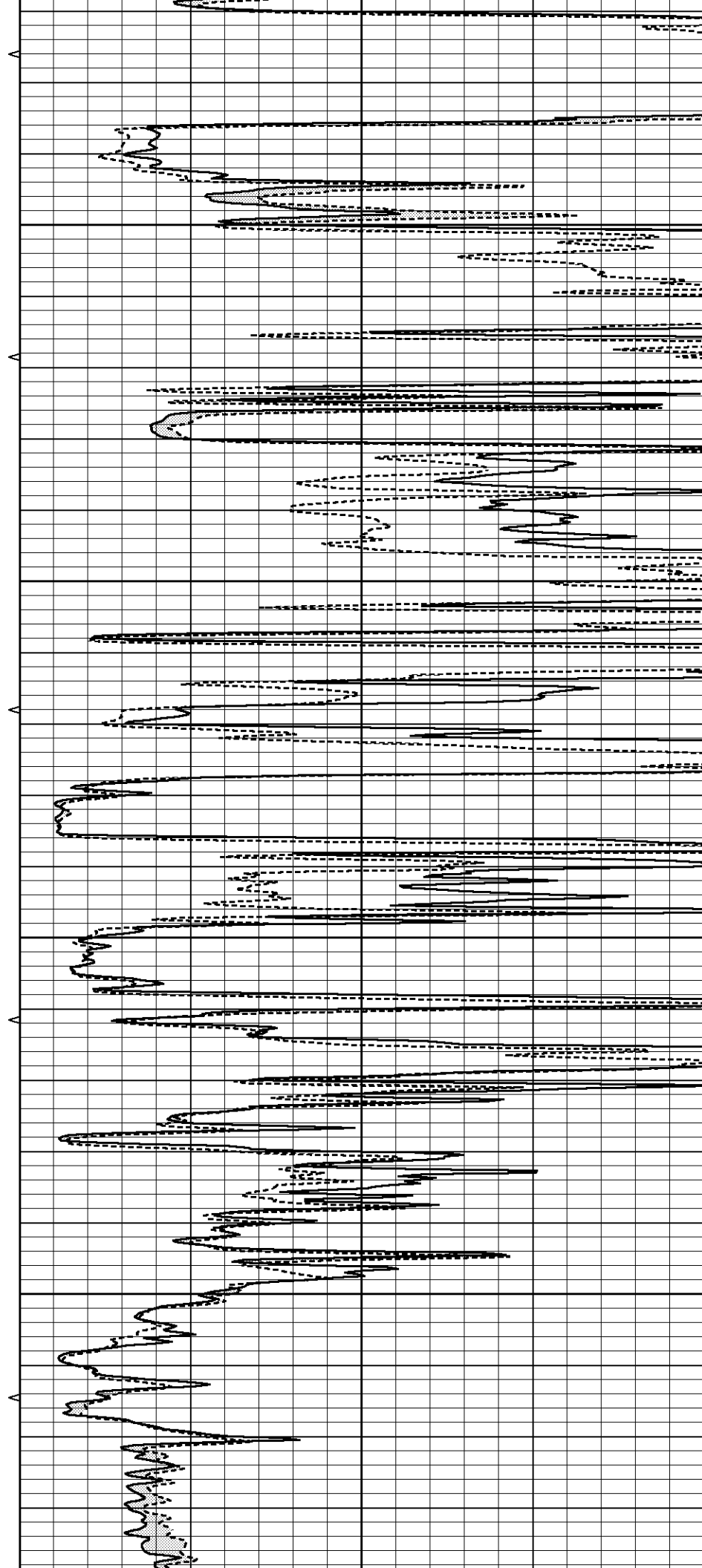


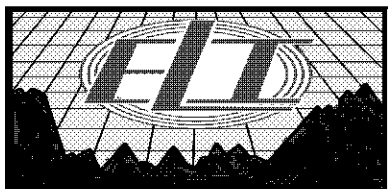
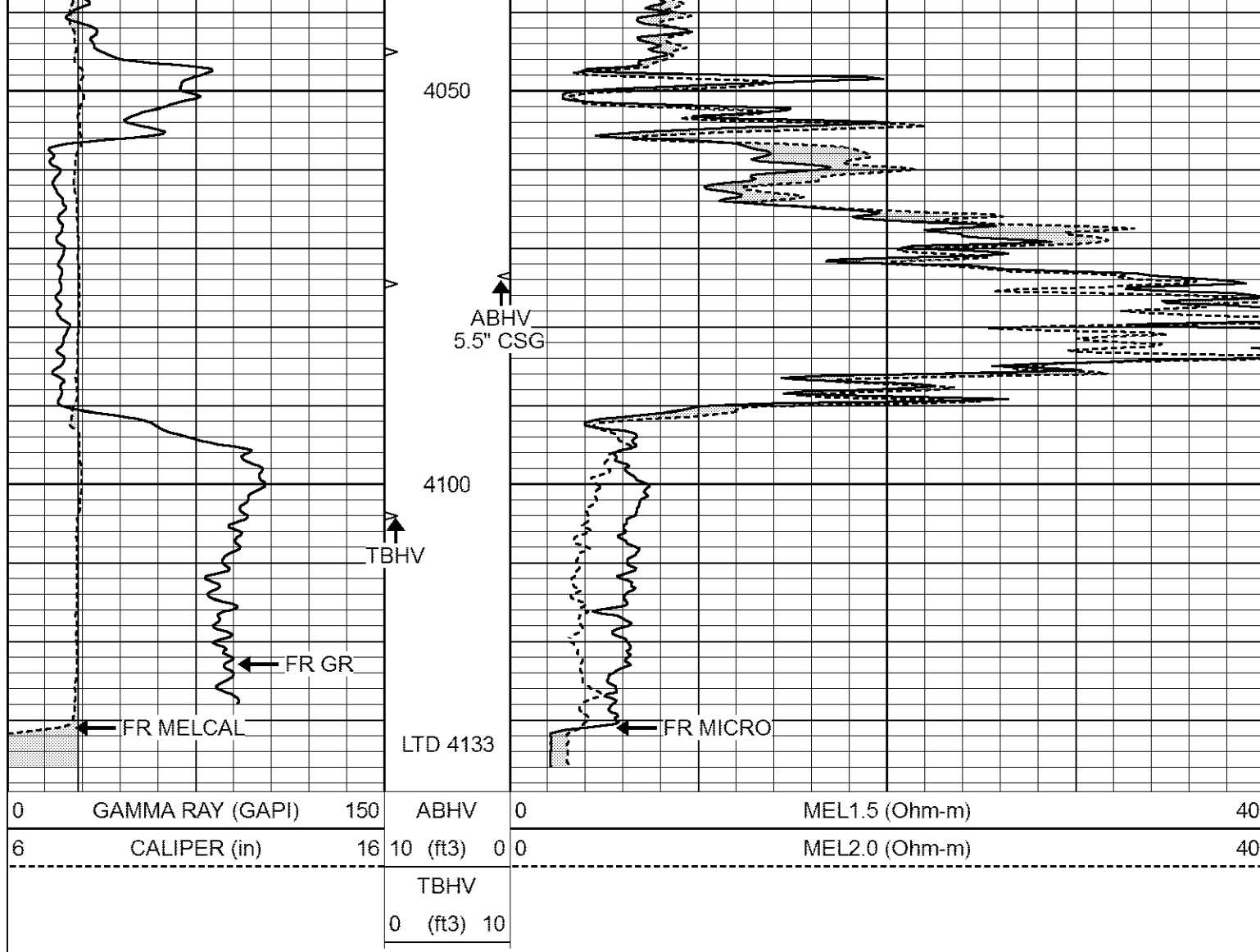
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3950

4000

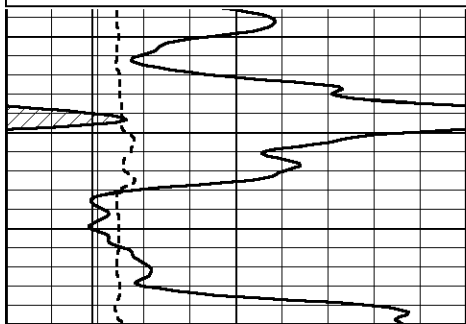




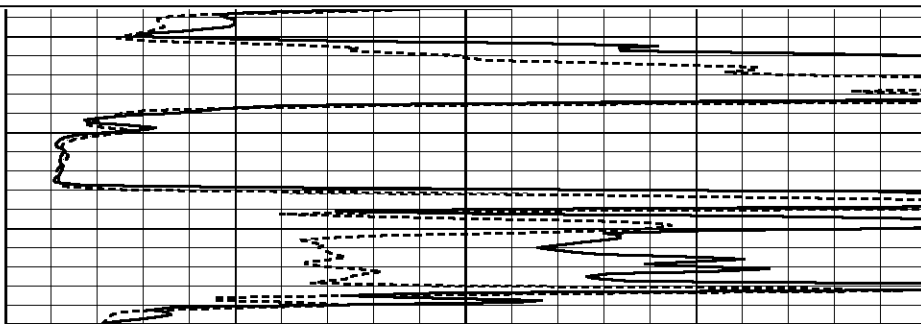
REPEAT SECTION

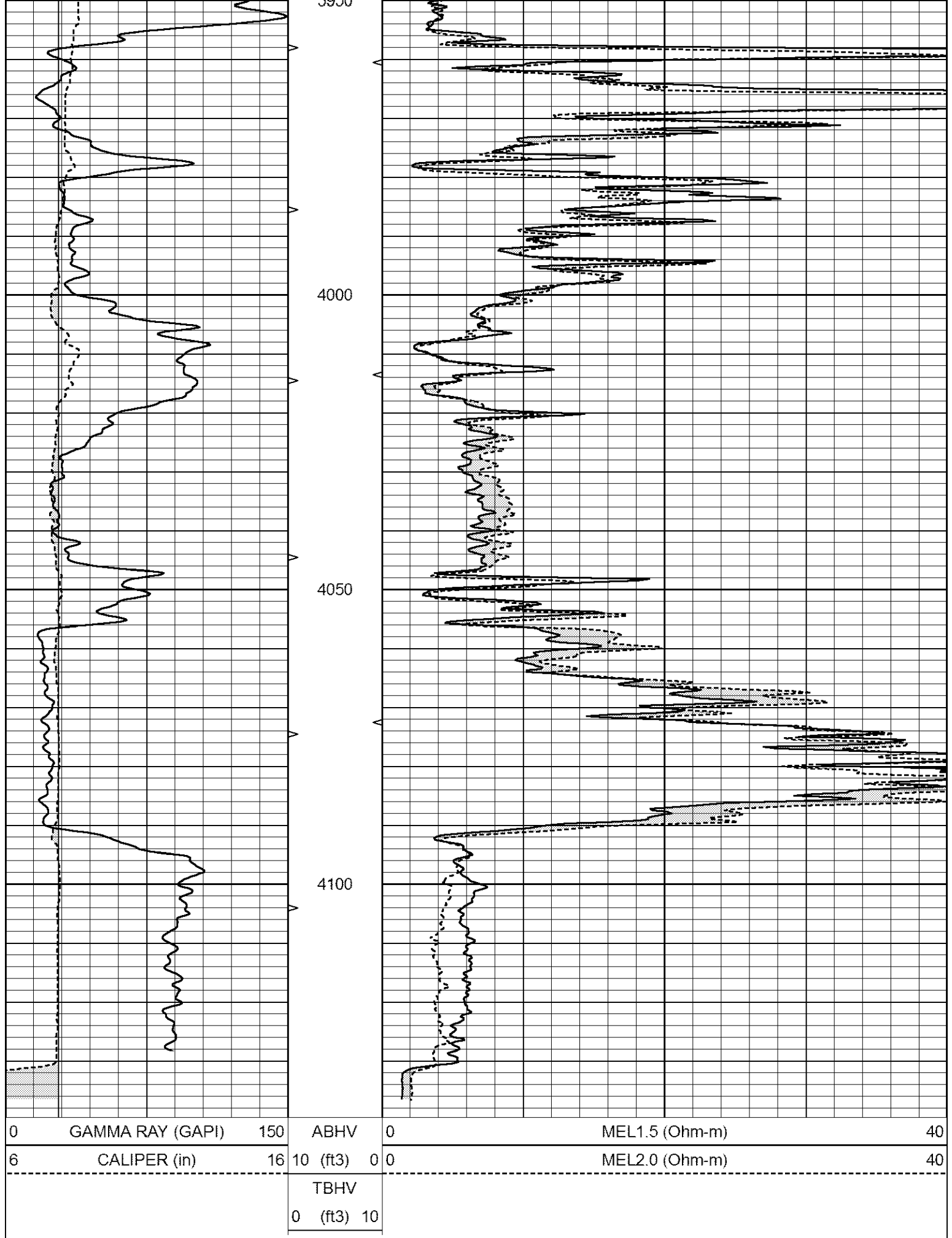
Database File 1136pe8.db
 Dataset Pathname pass5.1
 Presentation Format _micro
 Dataset Creation Tue Apr 18 16:36:15 2017
 Charted by Depth in Feet scaled 1:240

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



3050





Database File 1136pe8.db
Dataset Pathname pass5.1
Dataset Creation Tue Apr 18 16:36:15 2017

MICRO_USR Calibration Report

Serial Number: 070911
Tool Model: ProbeL
Performed: Thu Dec 08 13:09:11 2016

Caliper Calibration: Gain=4.161 Offset=1.500

References Low Cal High Cal
8.000 14.000
Readings 1.333 2.775

1.5" Calibration: Gain=37.000 Offset=0.000

References Low Cal High Cal
0.000 20.000
Readings 0.004 0.843

2" Calibration: Gain=35.000 Offset=0.650

References Low Cal High Cal
0.000 20.000
Readings 0.021 0.810

Microlog Calibration Report

Serial-Model: 070911-ProbeL
Performed: Sat Apr 11 01:13:01 2015

	Readings			References			Results	
	Zero	Cal		Zero	Cal		m	b
Normal	0.0002	0.4836	V	0.0000	10.0000	Ohm-m	20.6908	-0.0051
Inverse	0.0018	0.6297	V	0.0000	10.0000	Ohm-m	15.9263	-0.0282
Caliper	0.0000	1.0000	V	0.0000	1.0000	in	1.0000	0.0000

Gamma Ray Calibration Report

Serial Number: 7
Tool Model: Probe1
Performed: Wed Jun 29 11:10:58 2016

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 0.4300 GAPI/cps