

MICRO
LOG

Company DEUTSCH OIL COMPANY
Well ZINK #2-4
Field BAUMAN
County PRATT State KANSAS

Location: API # : 15-151-22454-0000
3630' FSL & 2310' FEL
SEC 4 TWP 26S RGE 11W
Permanent Datum GROUND LEVEL Elevation 1841
Log Measured From KELLY BUSHING 7' A.G.L
Drilling Measured From KELLY BUSHING
Other Services
CDL/CNL
DIL
Elevation
K.B. 1848
D.F. 1846
G.L. 1841

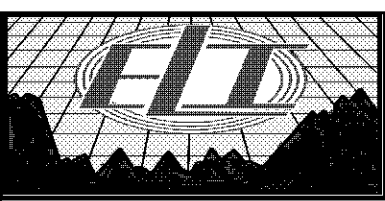
Date	12/12/16		
Run Number	TWO		
Depth Driller	4150		
Depth Logger	4154		
Bottom Logged Interval	4152		
Top Log Interval	3200		
Casing Driller	8 5/8" @ 294'		
Casing Logger	290		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 5500 PPM	
Density / Viscosity	9.0/46		
pH / Fluid Loss	10.0/9.0		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.65 @ 74F		
Rmf @ Meas. Temp	.48 @ 74F		
Rmc @ Meas. Temp	.78 @ 74F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.41 @ 117F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	2.15 P.M.		
Maximum Recorded Temperature	117F		
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

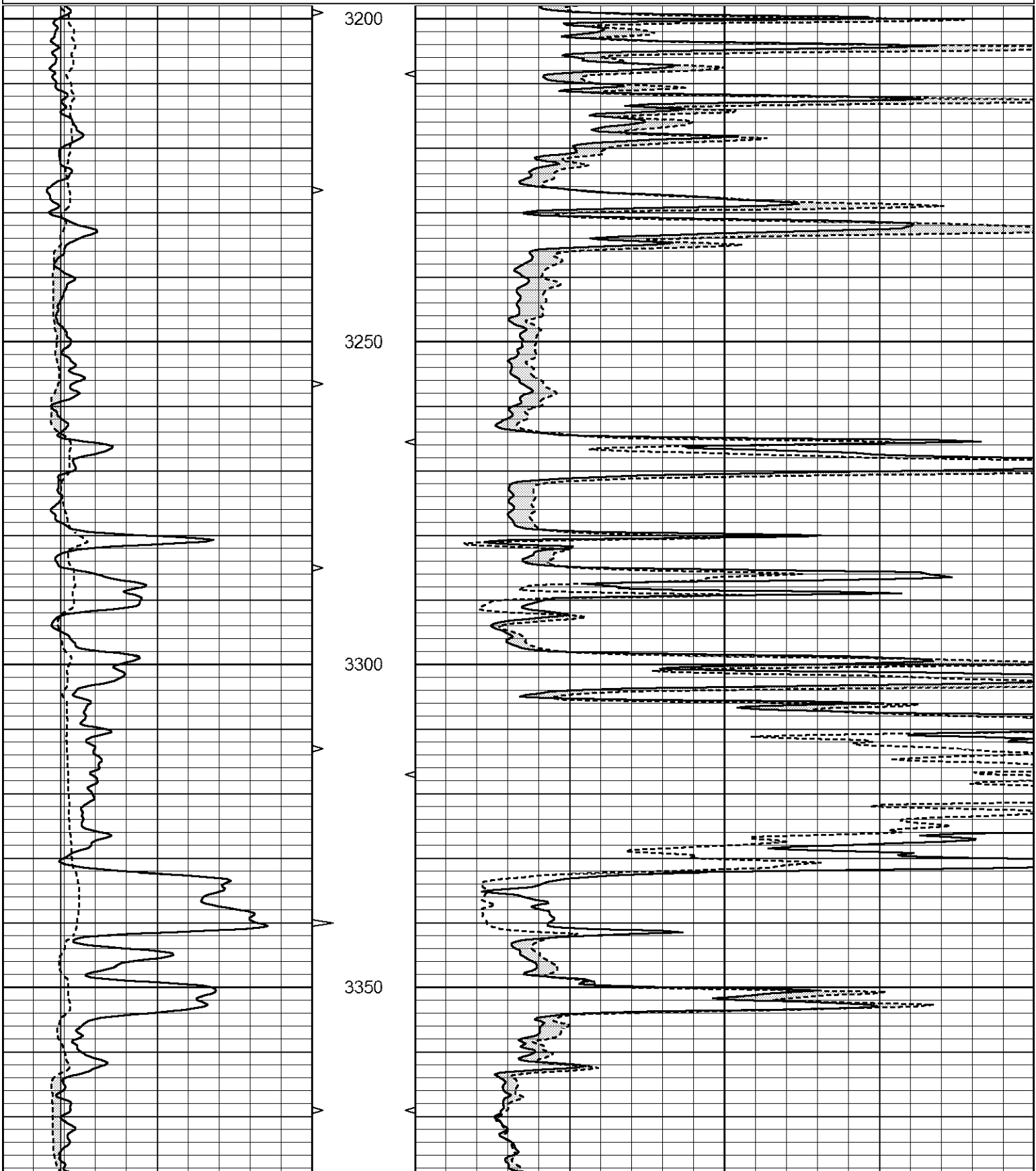
THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
DIRECTIONS
TURON, KS. - 4 WEST ON 110 RD. - 1/2 NORTH - WEST INTO

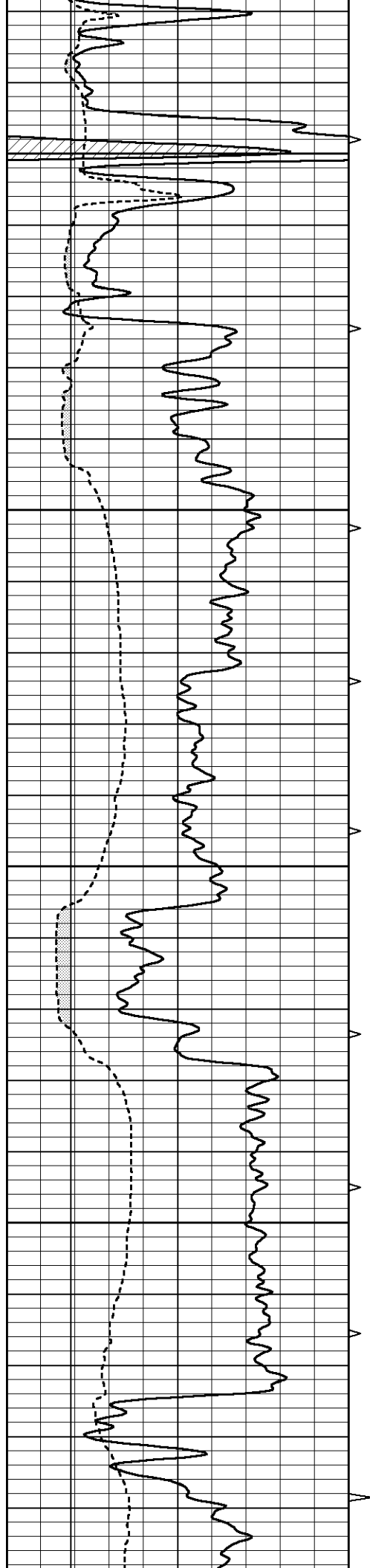


MAIN SECTION

Database File	1109ddn8.db
Dataset Pathname	pass7.1
Presentation Format	_micro
Dataset Creation	Mon Dec 12 16:48:11 2016
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		



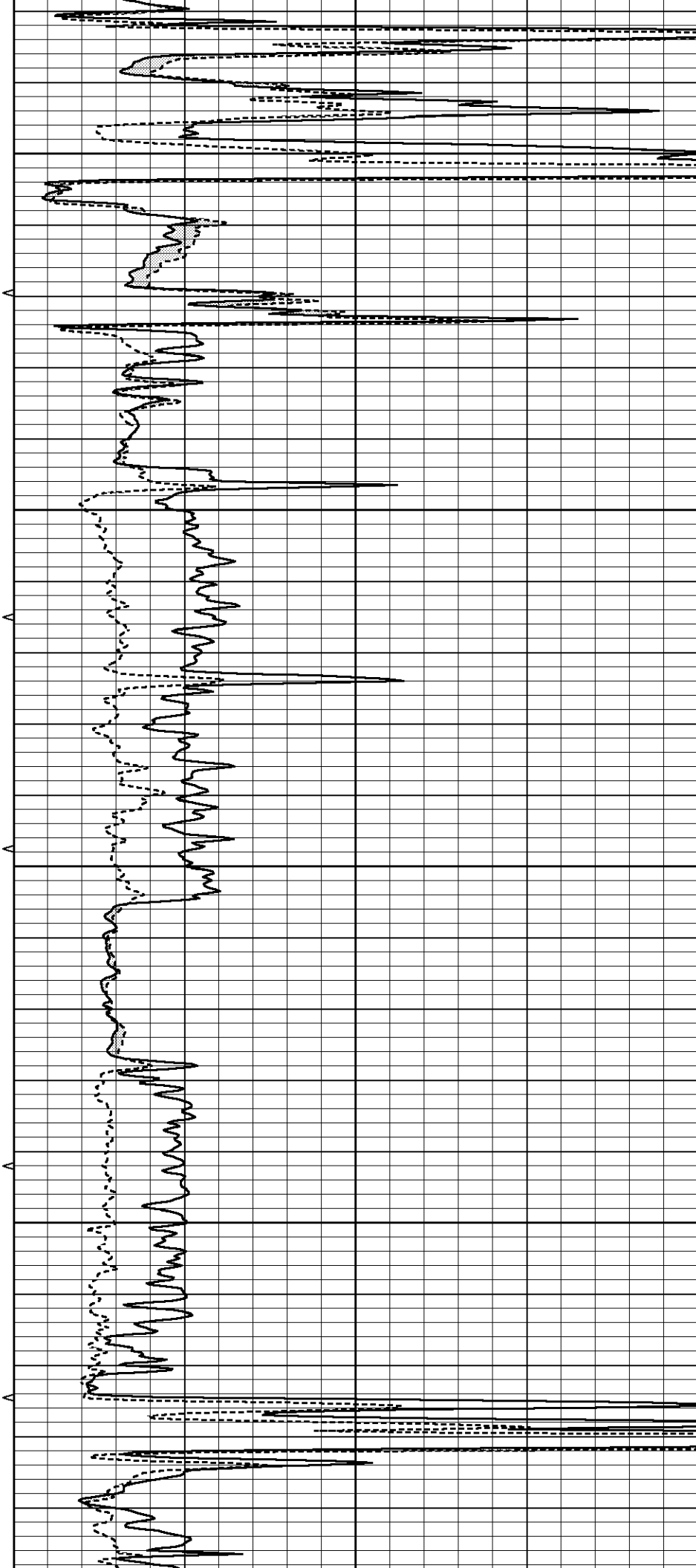


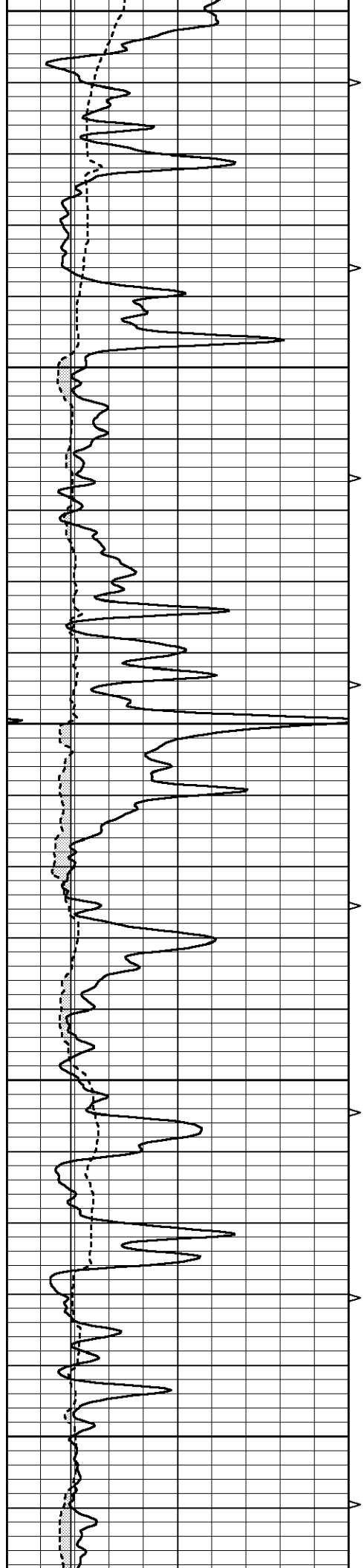
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3450

3500

3550





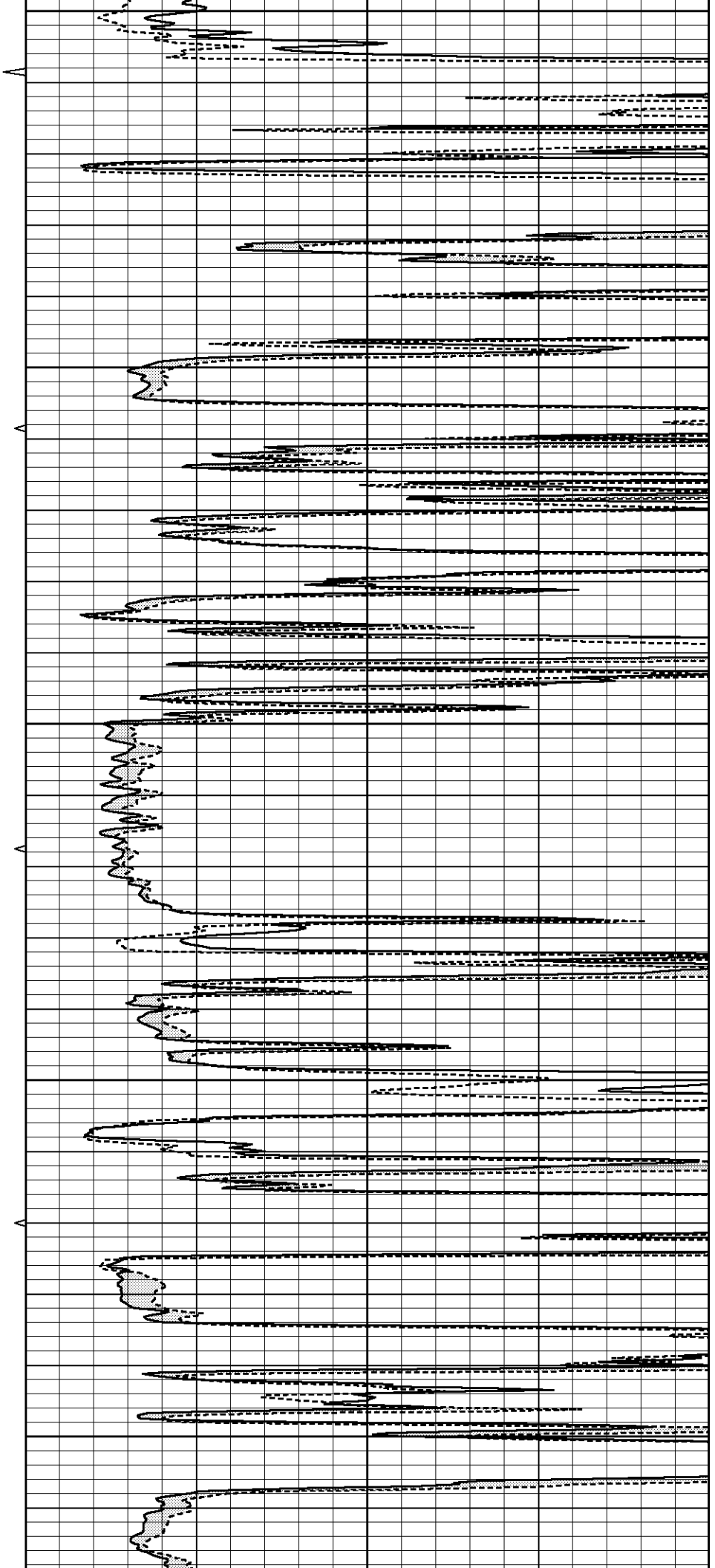
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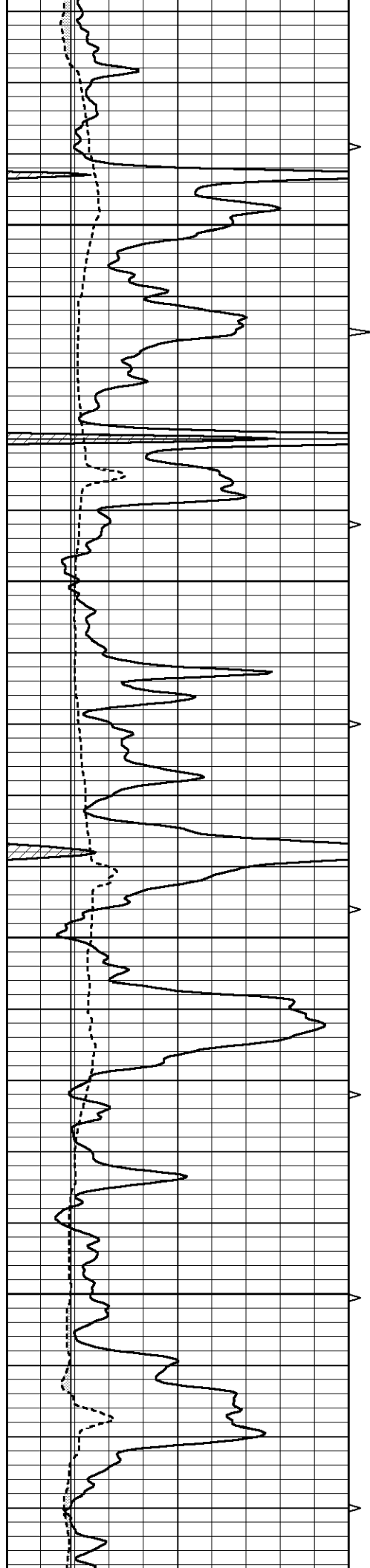
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3700

3750

3800



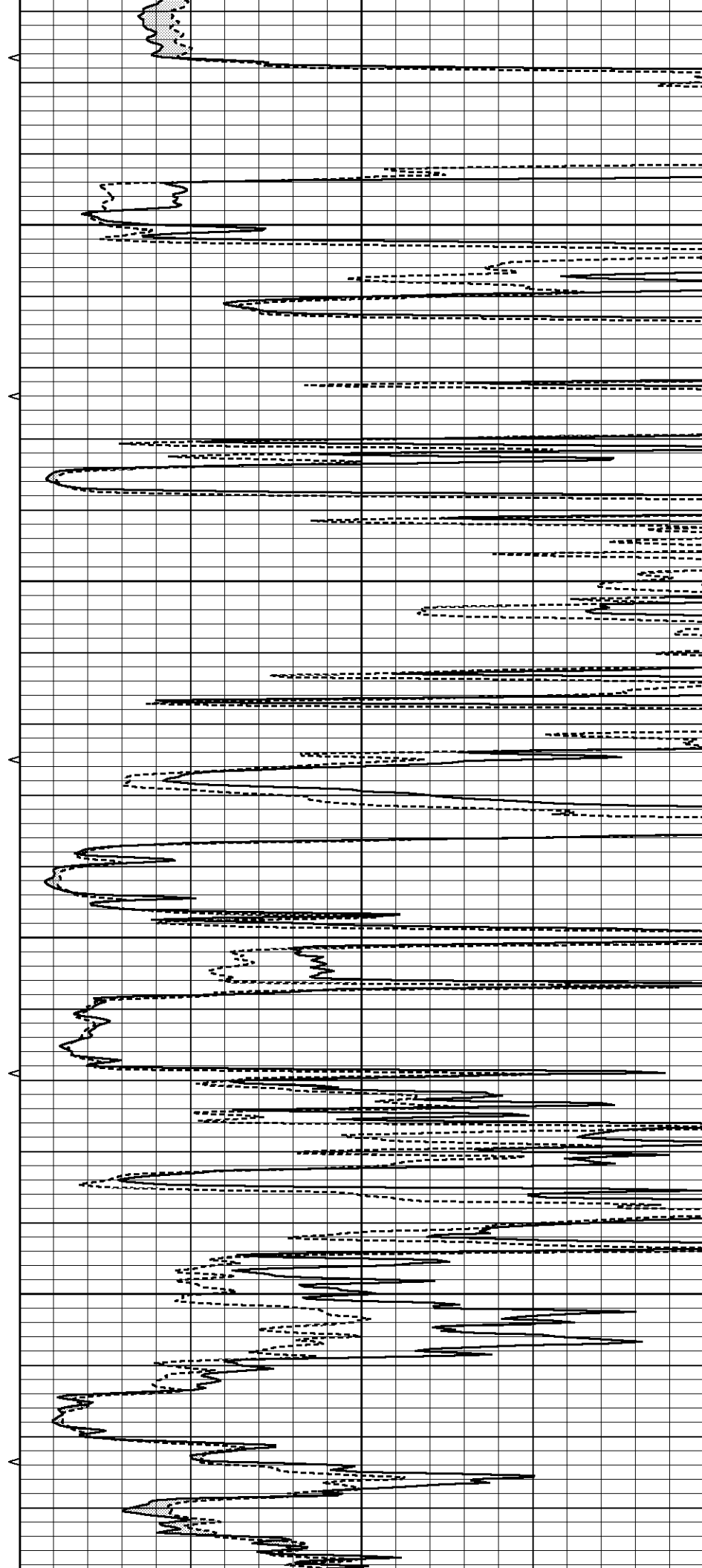


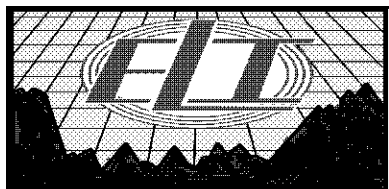
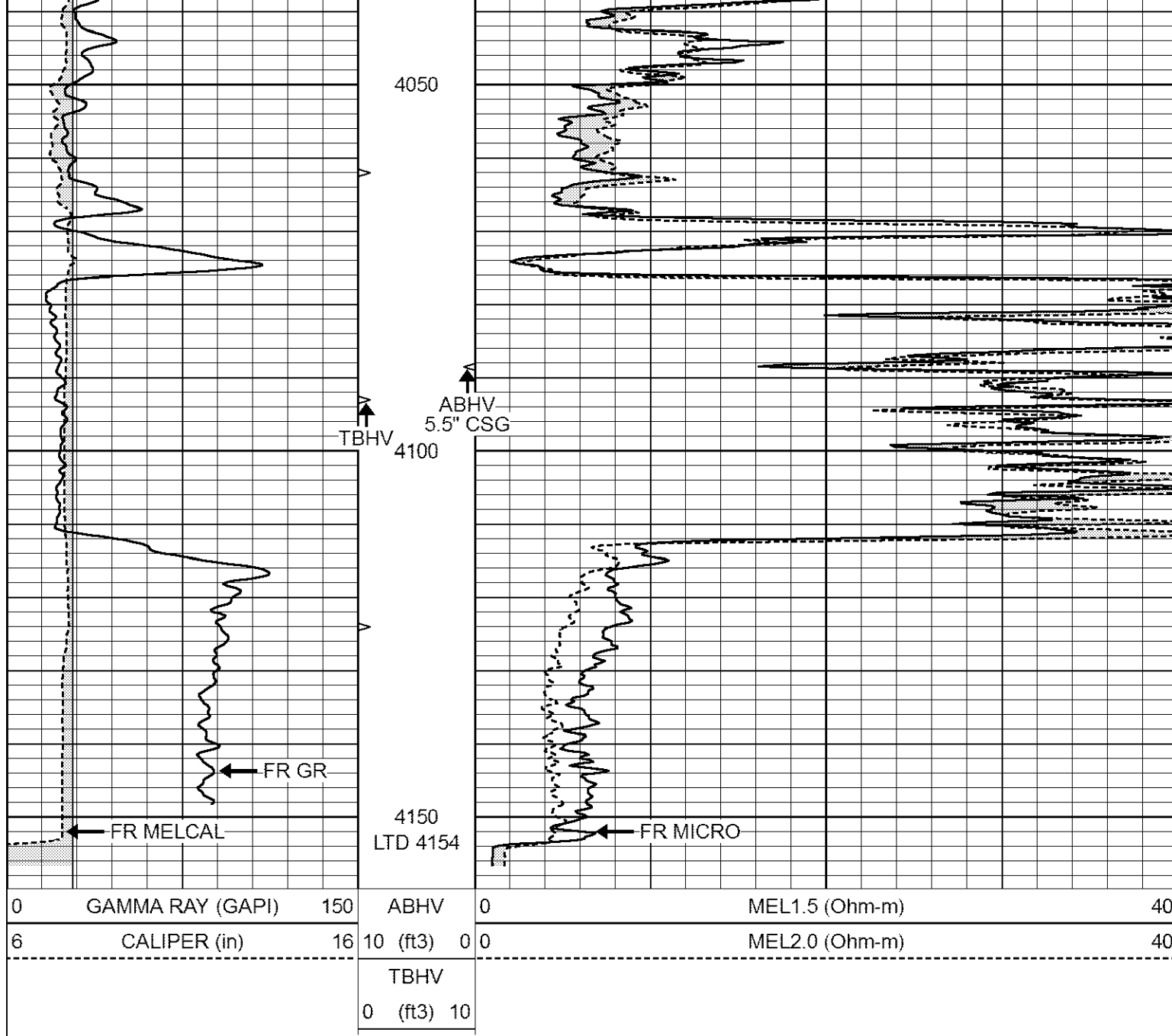
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3900

3950

4000

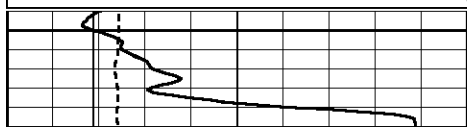




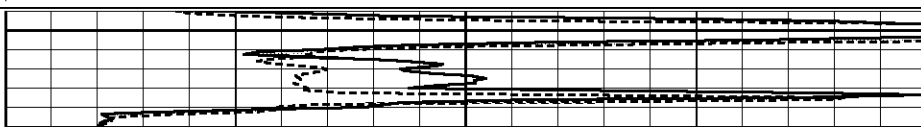
REPEAT SECTION

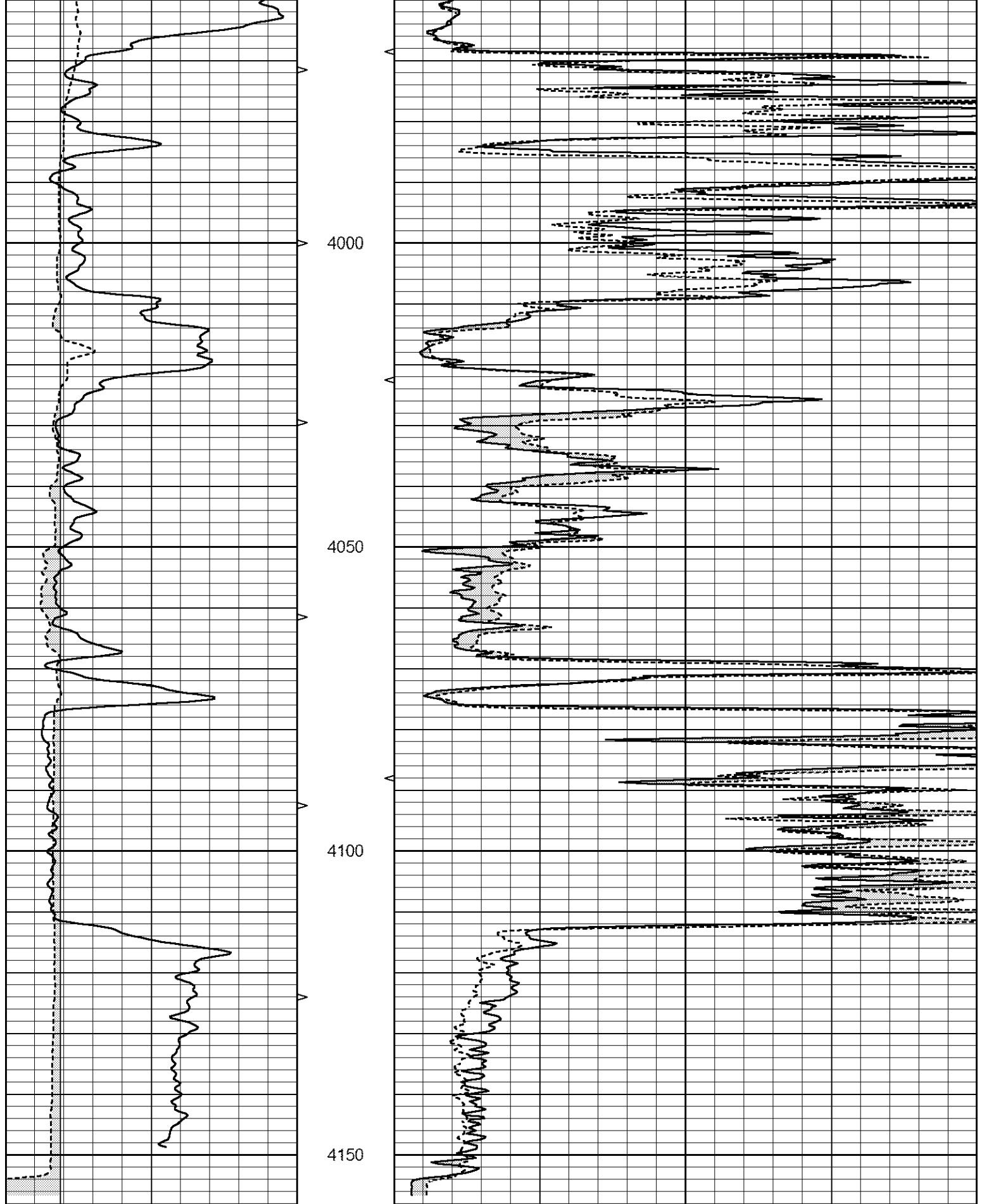
Database File 1109ddn8.db
 Dataset Pathname pass6.1
 Presentation Format _micro
 Dataset Creation Mon Dec 12 16:30:17 2016
 Charted by Depth in Feet scaled 1:240

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			



3950





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Database File		1109ddn8.db		Calibration Report				
Dataset Pathname		pass6.1						
Dataset Creation		Mon Dec 12 16:30:17 2016						
MICRO_USR Calibration Report								
Serial Number:		070911						
Tool Model:		ProbeL						
Performed:		Thu Dec 08 13:09:11 2016						
Caliper Calibration:		Gain=4.161		Offset=1.300				
References		Low Cal		High Cal				
Readings		8.000		14.000				
		1.333		2.775				
1.5" Calibration:		Gain=37.000		Offset=0.000				
References		Low Cal		High Cal				
Readings		0.000		20.000				
		0.004		0.843				
2" Calibration:		Gain=35.000		Offset=0.650				
References		Low Cal		High Cal				
Readings		0.000		20.000				
		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				