



MICRO LOG

Company NORSTAR PETROLEUM, INC.		Company NORSTAR PETROLEUM, INC.	
Well	CBCF #6-31	Well CBCF #6-31	
Field	MATTIE	Field MATTIE	
County	TREGO	County TREGO	
State	KANSAS	State KANSAS	
Location:		API # : 15-195-23075-0000	
1642' FNL & 802' FEL		Other Services CDL/CNL/PE DIL	
SEC 31 TWP 14S RGE 21W		Elevation	
Permanent Datum	GROUND LEVEL	Elevation	K.B. 2073
Log Measured From	KELLY BUSHING 7' A.G.L		D.F. 2071
Drilling Measured From	KELLY BUSHING		G.L. 2066
Date	11/27/18		
Run Number	TWO		
Depth Driller	4050		
Depth Logger	4051		
Bottom Logged Interval	4049		
Top Log Interval	3100		
Casing Driller	8 5/8" @ 225		
Casing Logger	225		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES	14700 PPM
Density / Viscosity	9.5/50		
pH / Fluid Loss	10.0/11.2		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.25 @ 65F		
Rmf @ Meas. Temp	.18 @ 65F		
Rmc @ Meas. Temp	.30 @ 65F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.14 @ 116F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	////		
Maximum Recorded Temperature	116F		
Equipment Number	3802		
Location	HAYS, KANSAS		
Recorded By	JASON CAPPELLUCCI		
Witnessed By	LARRY FRIEND		

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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

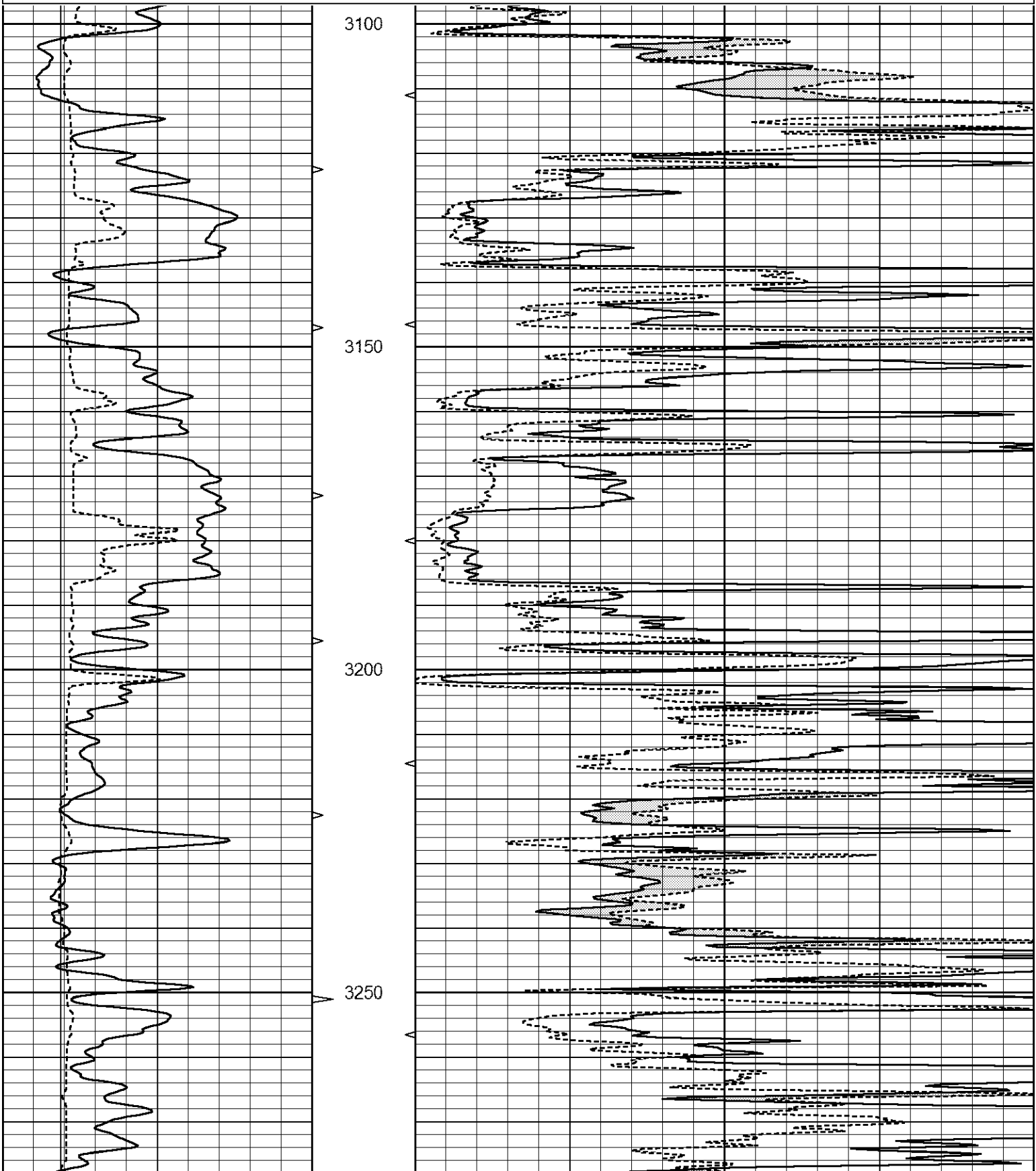
THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
DIRECTIONS
CEDAR BLUFF RESERVOIR - TO THE SOUTH SIDE OF DAM
1 1/4 EAST ON Y RD. TO CBCF TANK BATTERY - 1 MILE NORTH & EAST TO
METAL PENS - NORTH 1/4 MILE ACROSS CATTLE GUARD
FOLLOW TRAIL EAST INTO

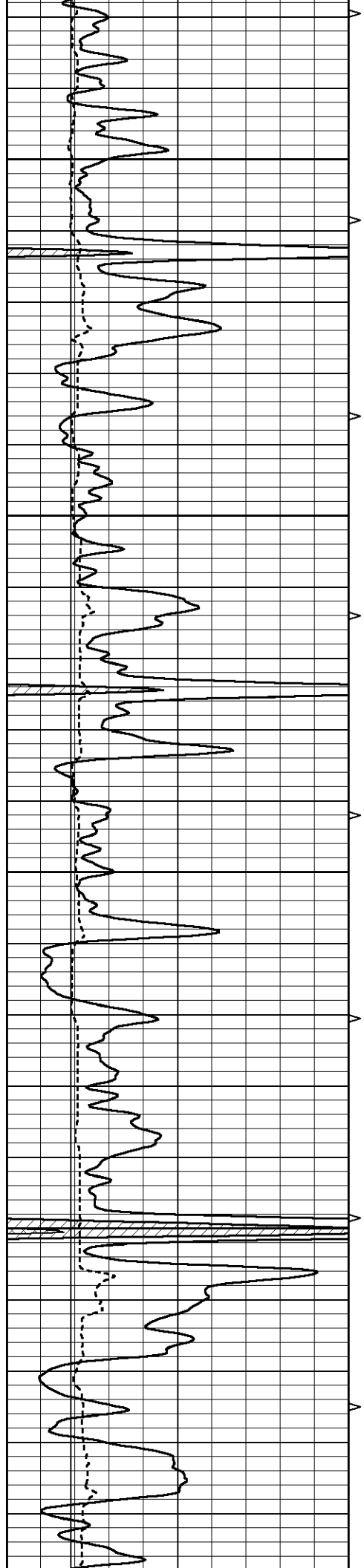


MAIN SECTION

Database File	3021pe8.db
Dataset Pathname	pass6.1
Presentation Format	_micro
Dataset Creation	Tue Nov 27 22:27:13 2018
Charted by	Depth in Feet scaled 1:240

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



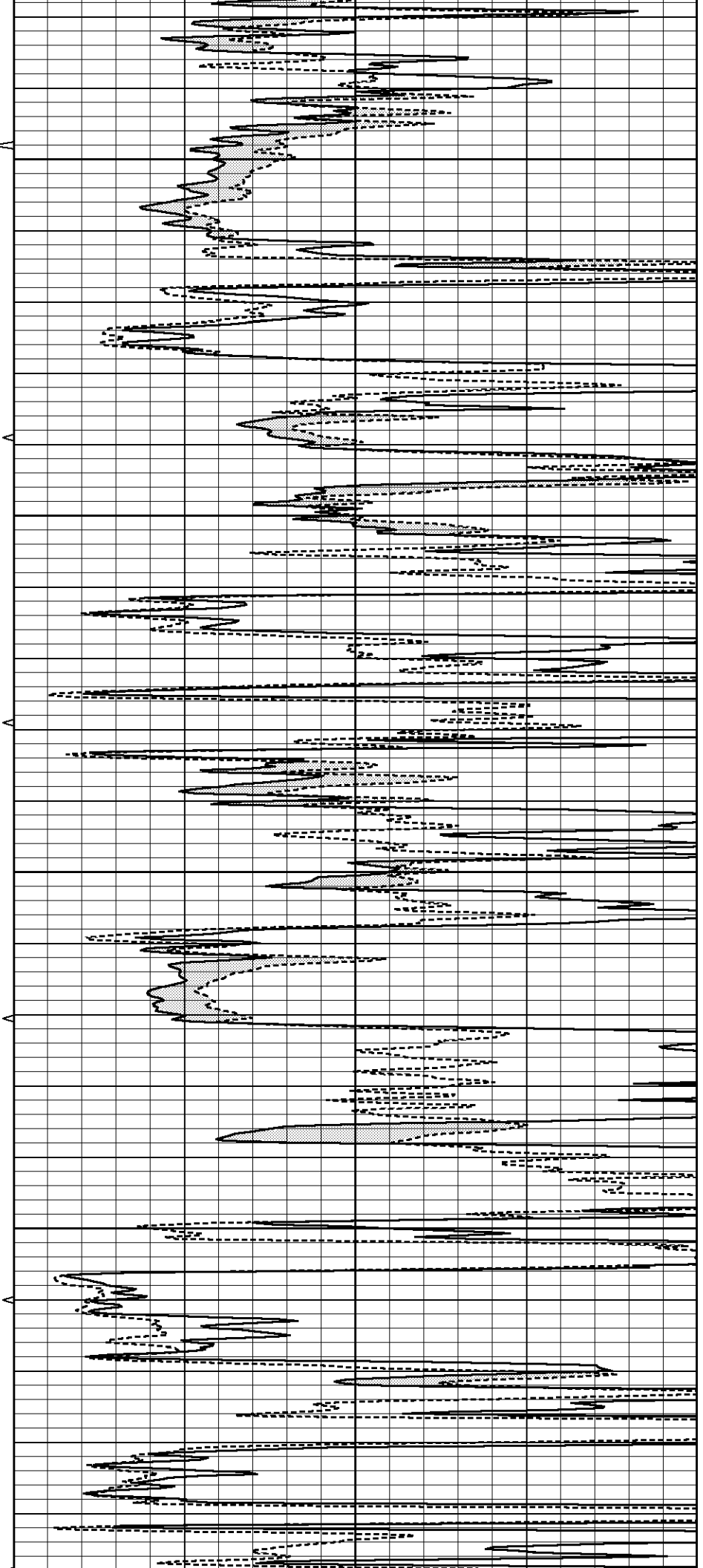


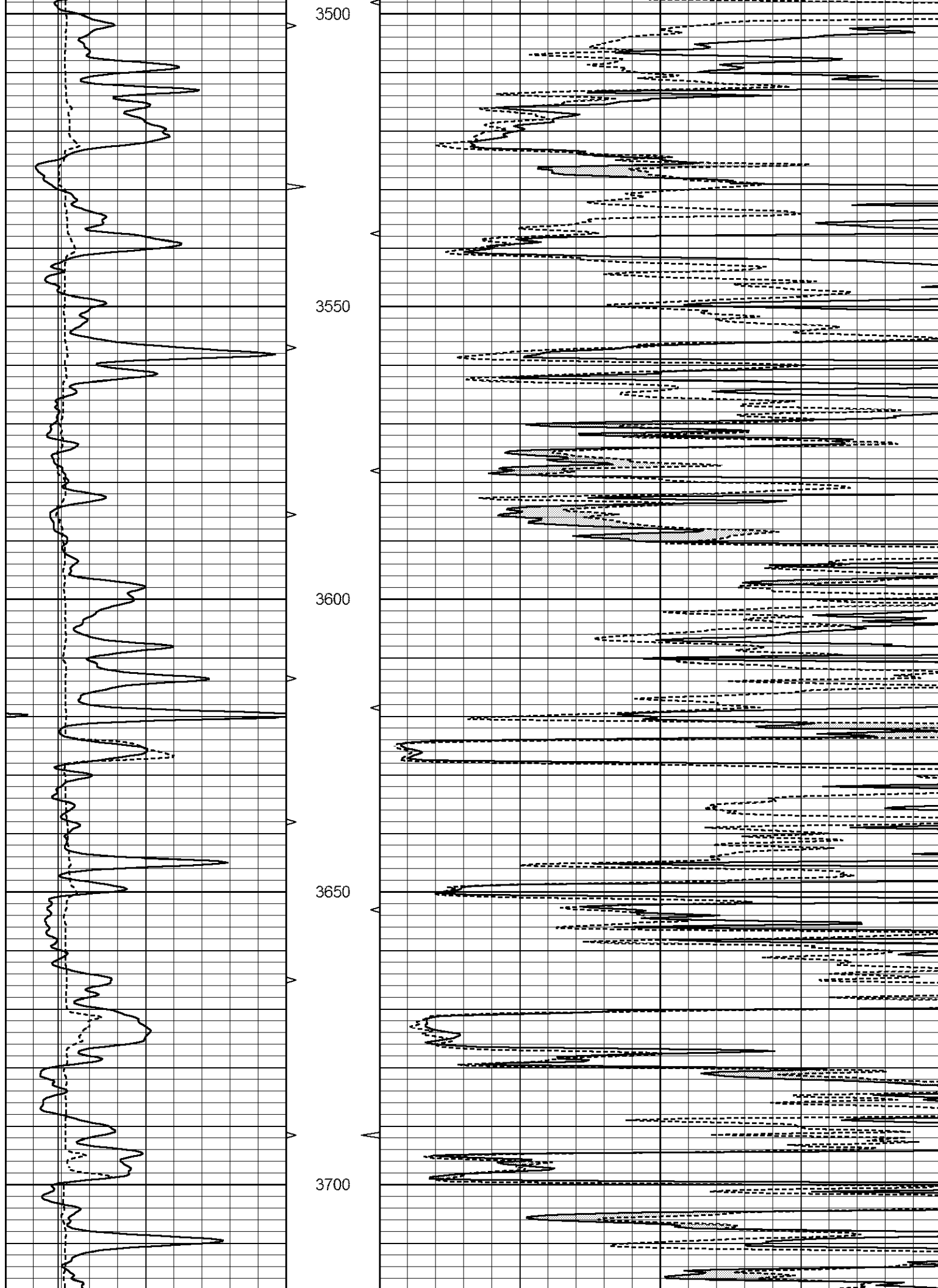
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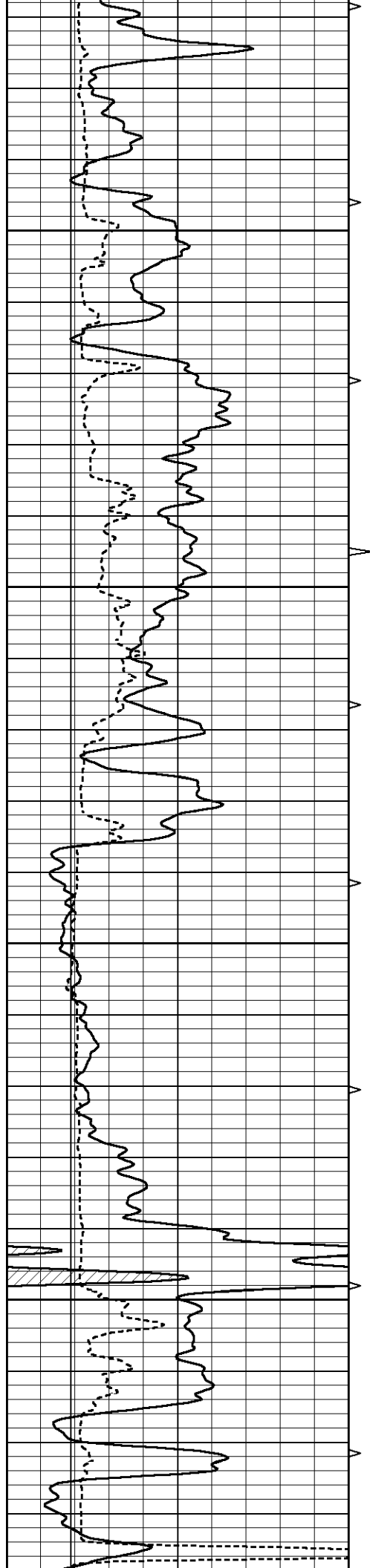
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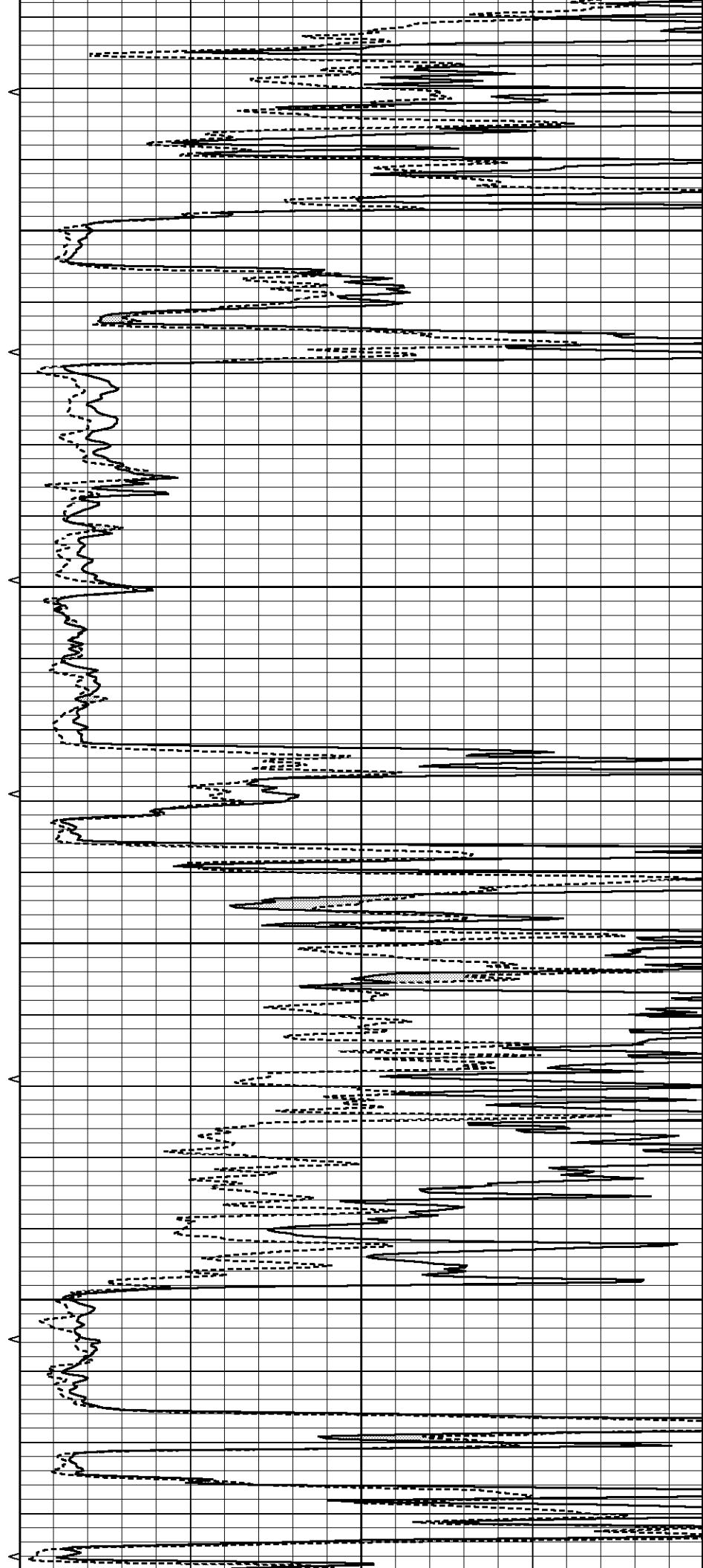


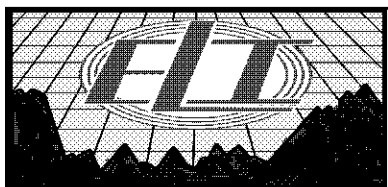
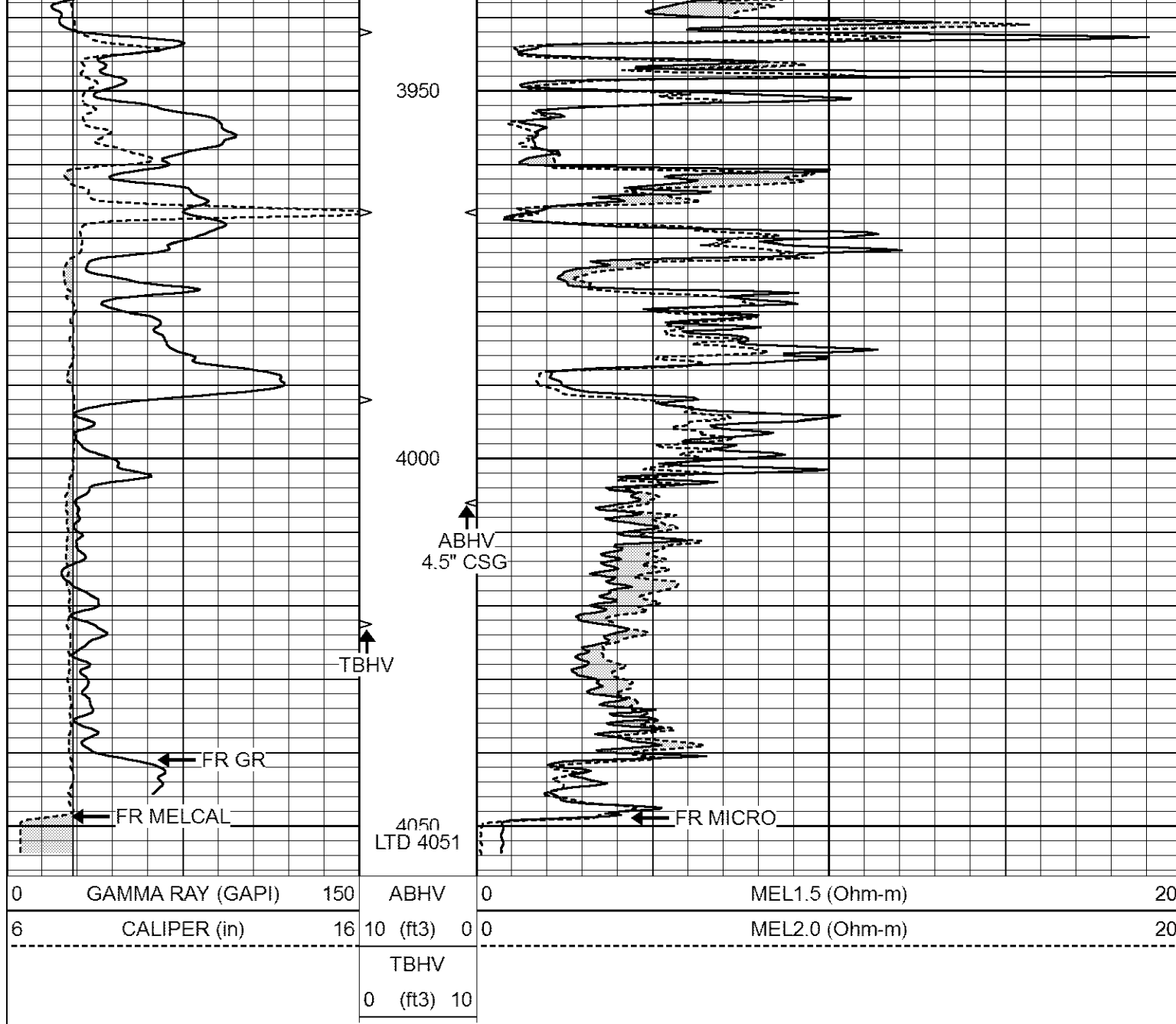
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3800

3850

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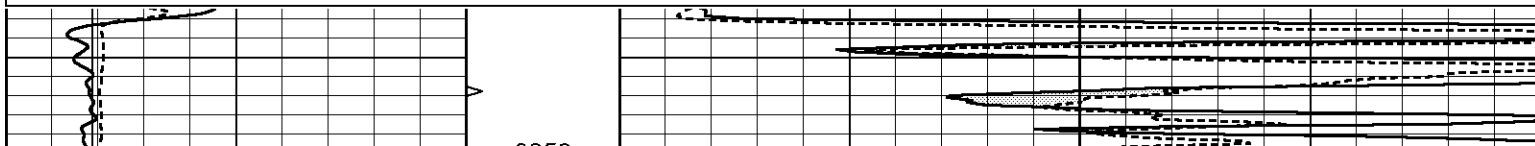


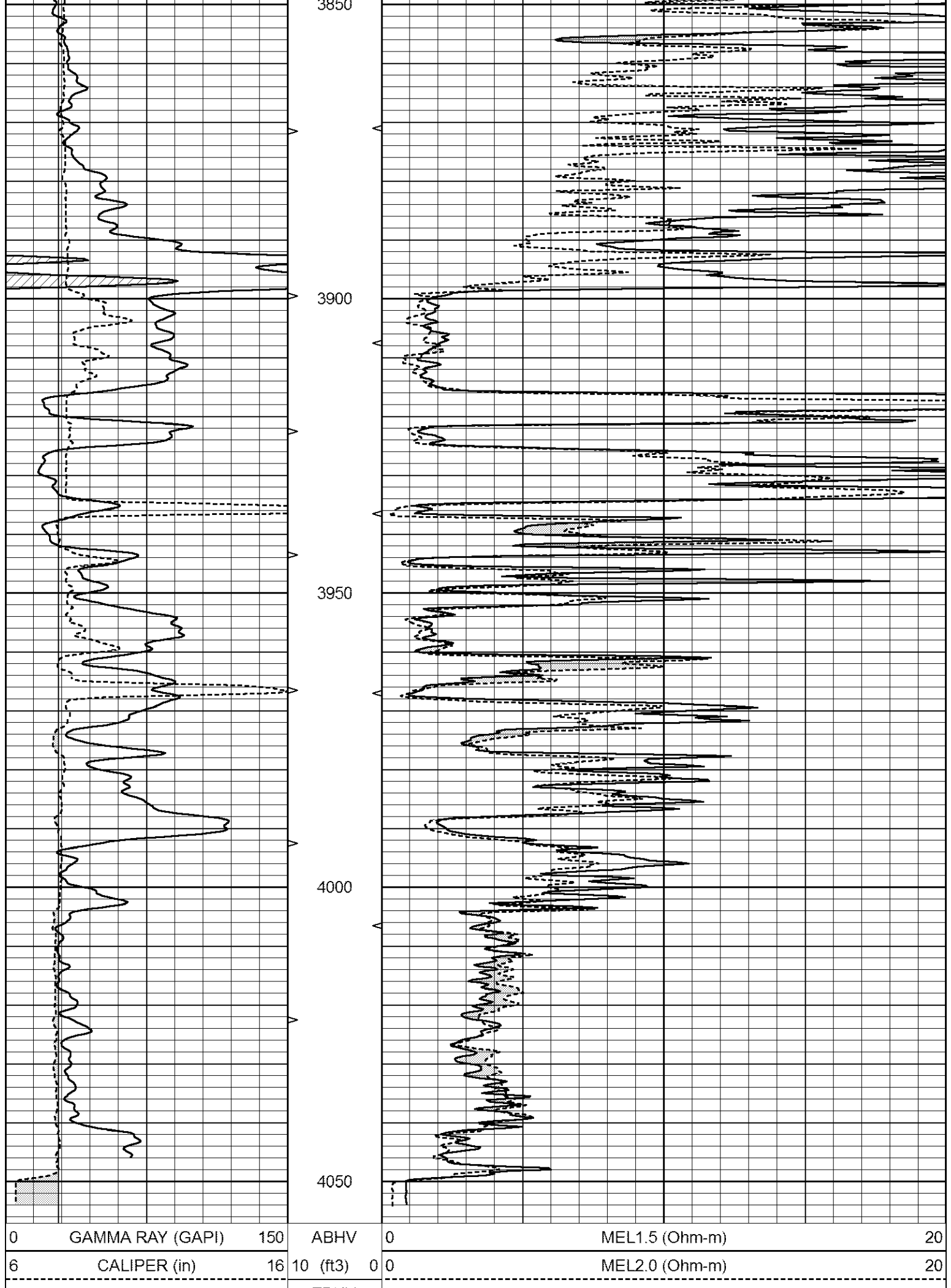


REPEAT SECTION

Database File 3021pe8.db
 Dataset Pathname pass5.1
 Presentation Format _micro
 Dataset Creation Tue Nov 27 22:10:53 2018
 Charted by Depth in Feet scaled 1:240

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





Calibration Report

Database File 3021pe8.db
Dataset Pathname pass5.1
Dataset Creation Tue Nov 27 22:10:53 2018

MICRO_USR Calibration Report

Serial Number: 070911
Tool Model: ProbeL
Performed: Fri Mar 09 19:26:46 2018

Caliper Calibration: Gain=3.755 Offset=3.050

References Low Cal High Cal
8.000 14.000
Readings 1.451 3.049

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=75.000 Offset=-1.650

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: 0.2700 GAPI/cps