



MICRO LOG

Company	DOWNING-NELSON OIL CO., INC.		
Well	THOMPSON-NUCKOLLS UNIT #1-17		
Field	STEFFEN SOUTH		
County	PAWNEE		
State	KANSAS		
Location:	API # : 15-145-21846-00-00 170 FSL & 2090 FEL		
Permanent Datum	GROUND LEVEL	Elevation	2102'
Log Measured From	KELLY BUSHING 8' A.G.L.		
Drilling Measured From	KELLY BUSHING		
Date	02/23/19		
Run Number	TWO		
Depth Driller	4456		
Depth Logger	4453		
Bottom Logged Interval	4433		
Top Log Interval	3500		
Casing Driller	8 5/8 @ 1230		
Casing Logger	1230		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.4/50		
pH / Fluid Loss	9.5/10.0		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.80 @ 60		
Rmt @ Meas. Temp	.60 @ 60		
Rmc @ Meas. Temp	.96 @ 60		
Source of Rmt / Rmc	MEASURED		
Rm @ BHT	.40 @ 120		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	///		
Maximum Recorded Temperature	120F		
Equipment Number	4010		
Location	HAYS, KANSAS		
Recorded By	GUS PFANENSTIEL		
Witnessed By	MARC DOWNING		

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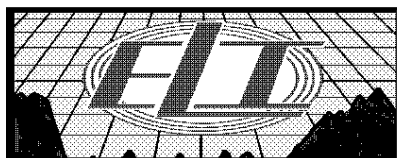
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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, HAYS, KS. (785) 628-6395

DIRECTIONS

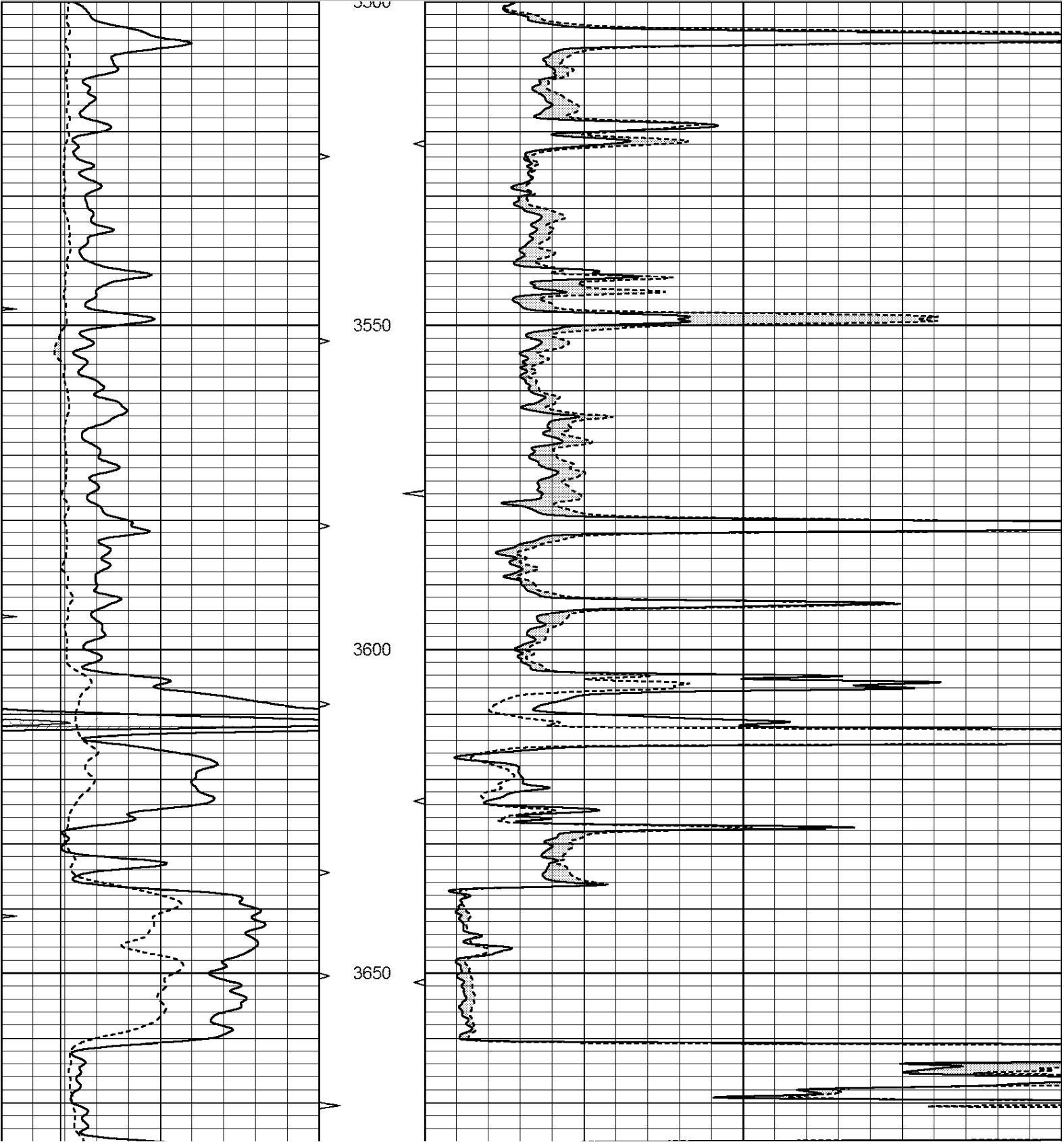
BURDETT TO 345 NORTH TO CURVE WEST 1/2 MILE, NORTH ON 350 RD.
TO Q RD., 1/2 WEST, NORTH INTO.

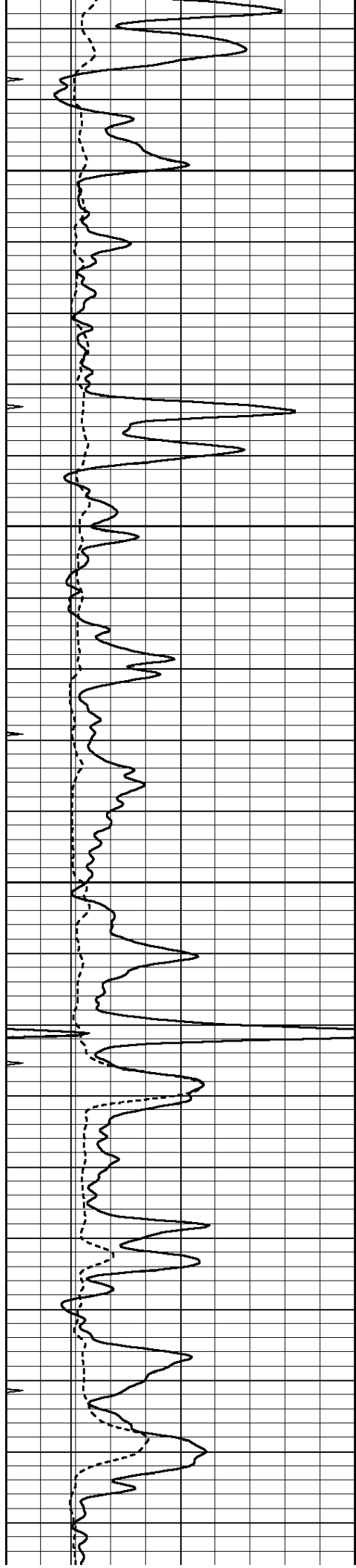


MAIN PASS

Database File: 3485ddn.db
Dataset Pathname: pass5.1
Presentation Format: _micro
Dataset Creation: Sat Feb 23 05:35:42 2019 by Calc Open-Cased 090629
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		



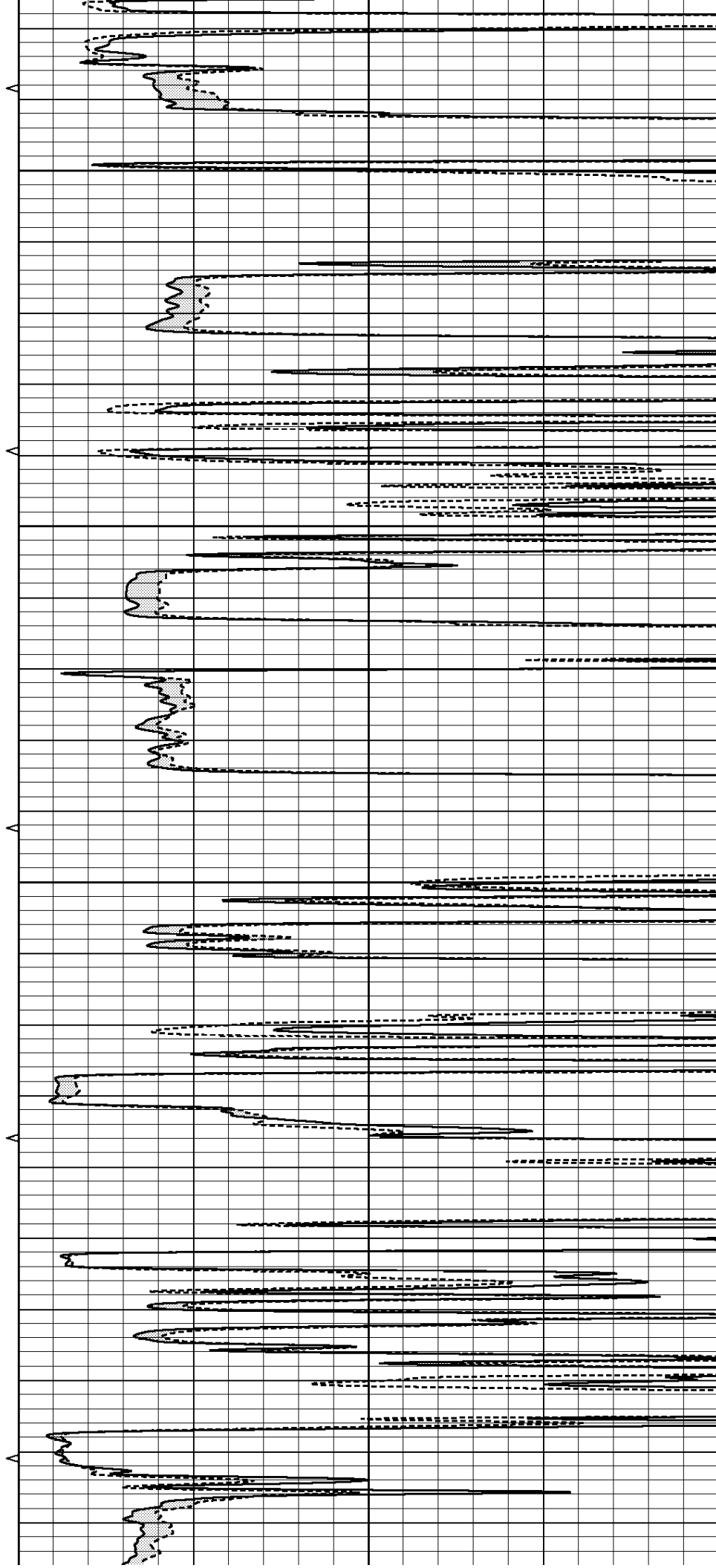


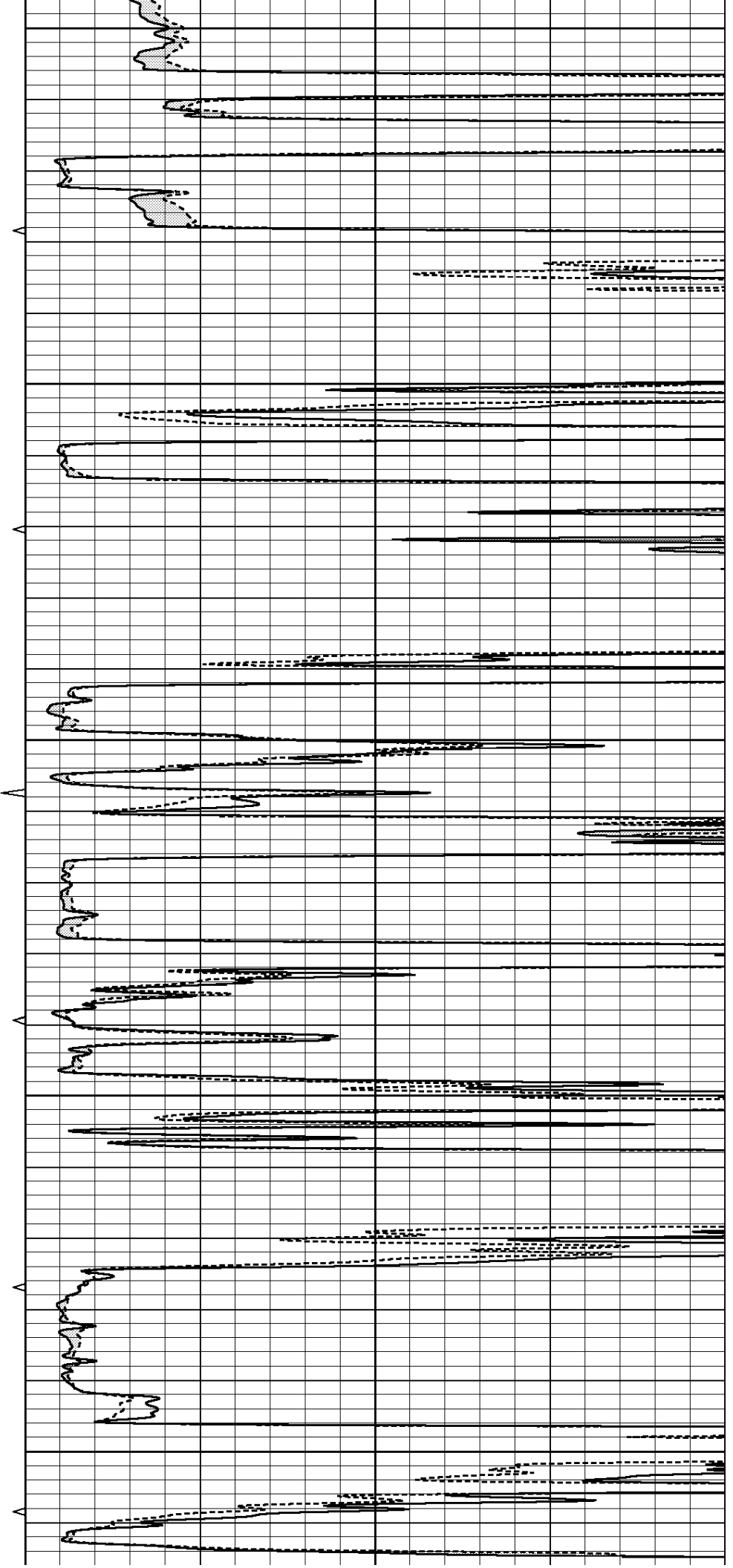
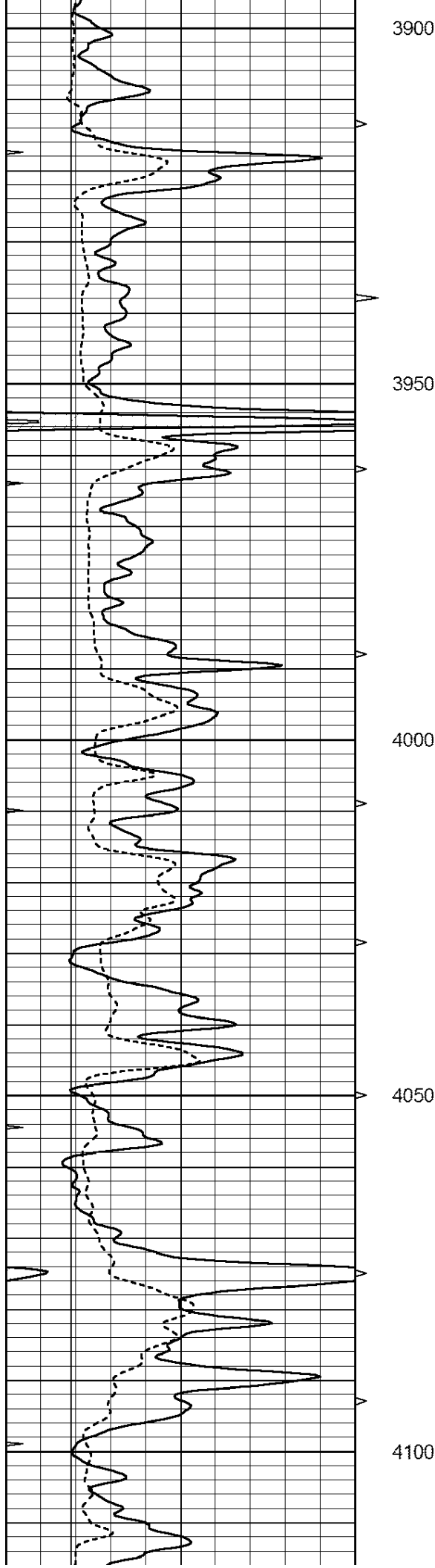
3700

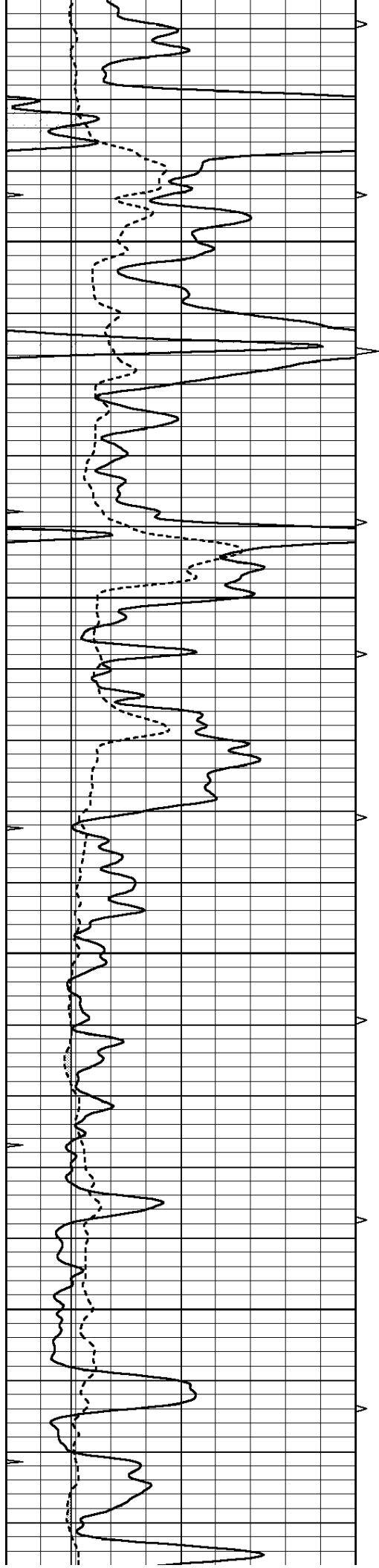
3750

3800

3850





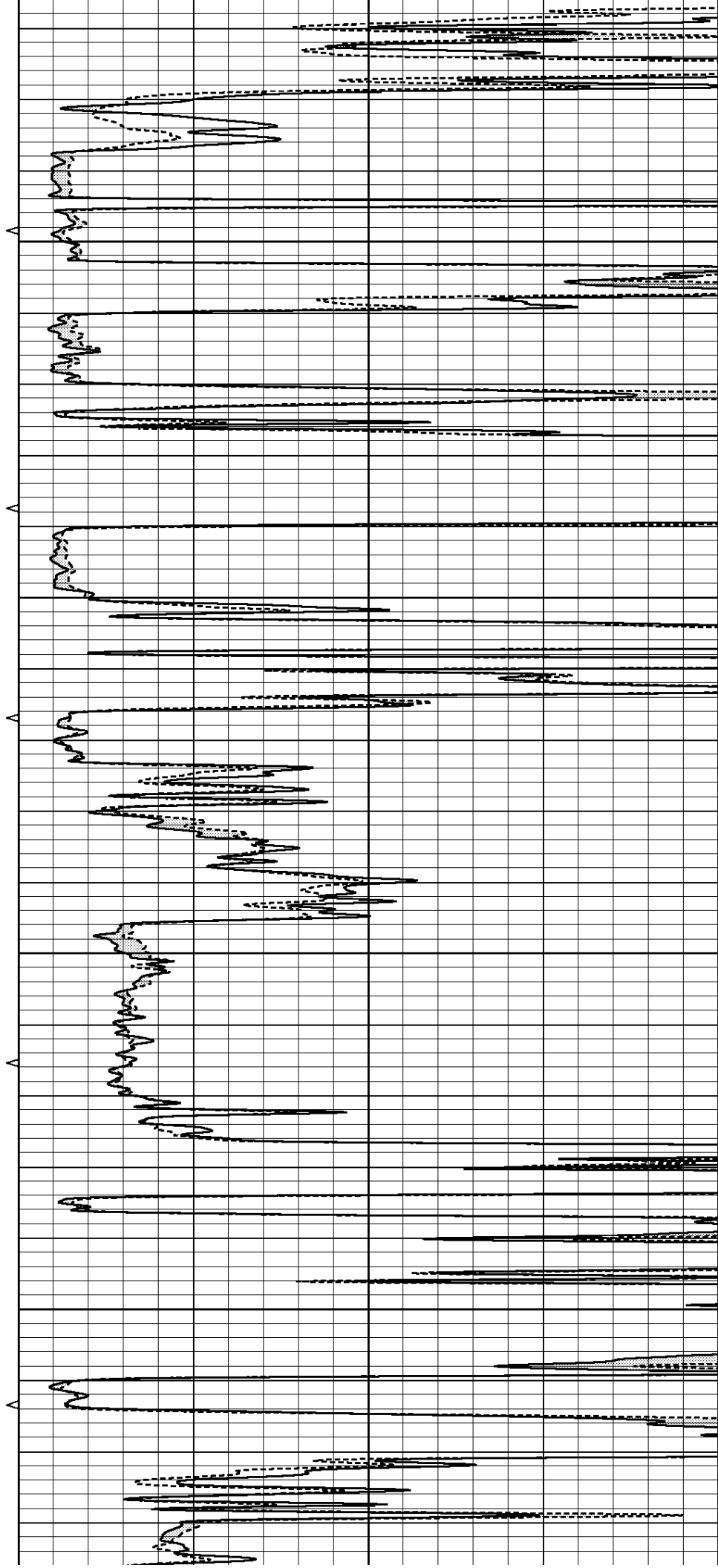


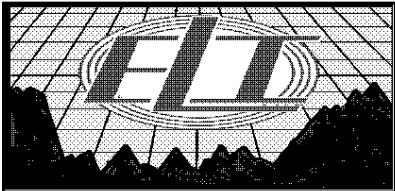
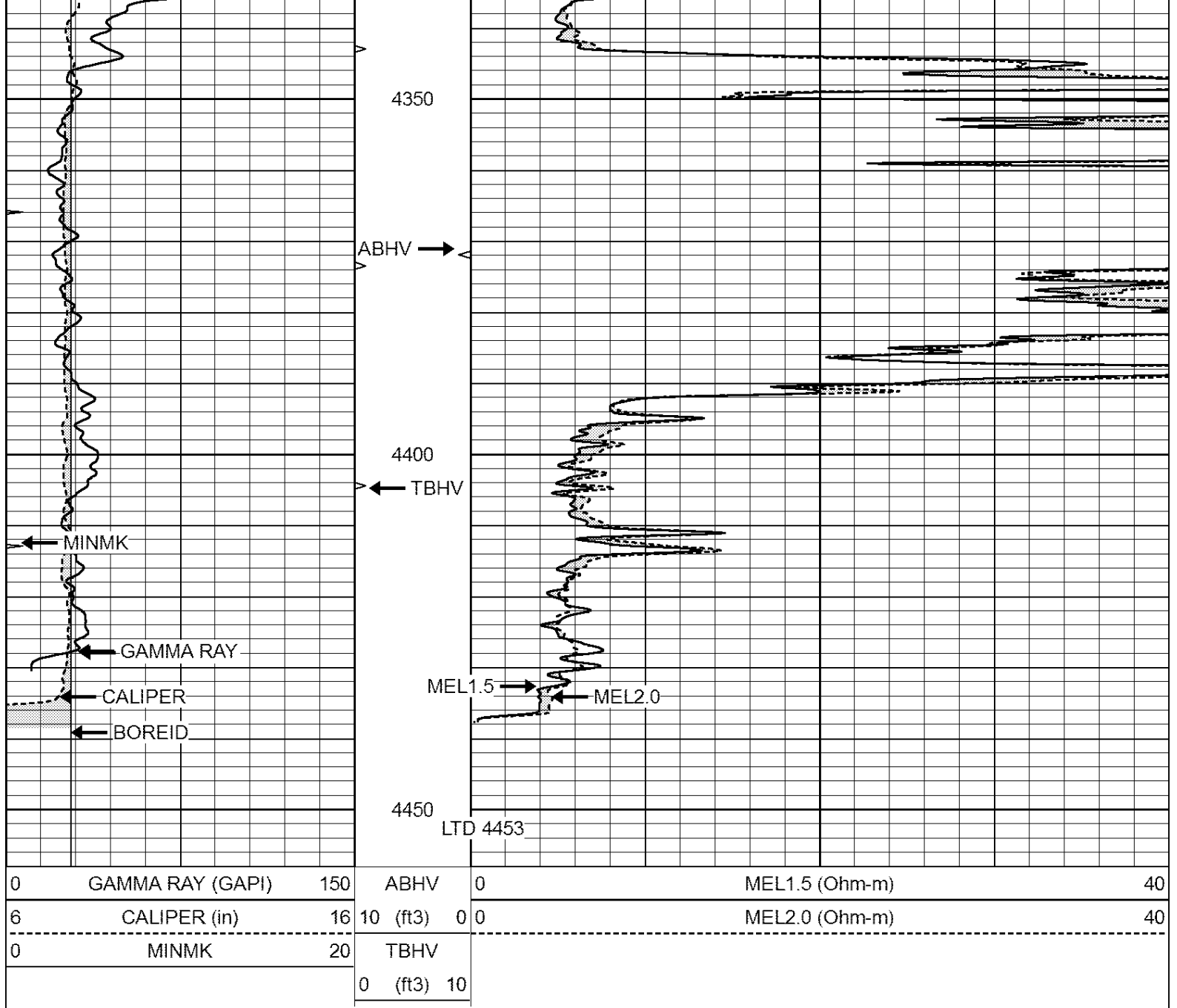
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4200

4250

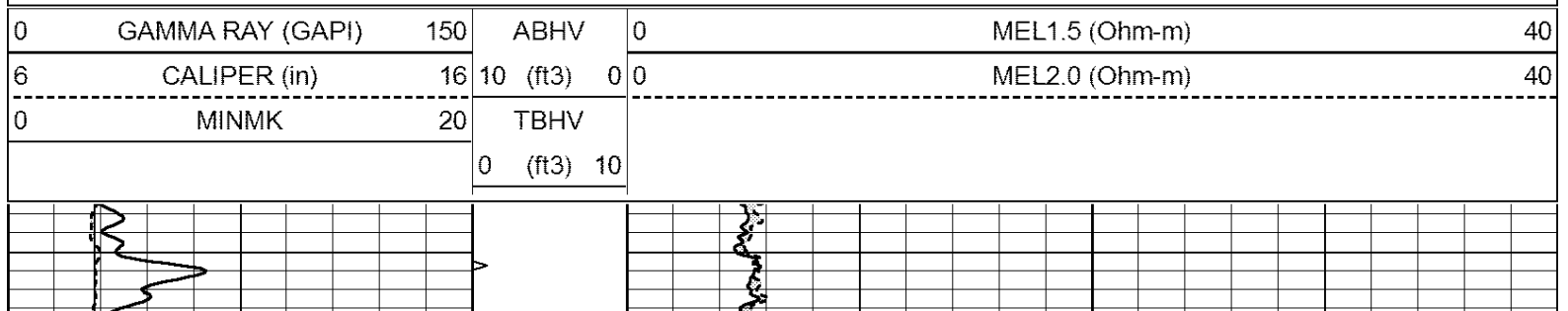
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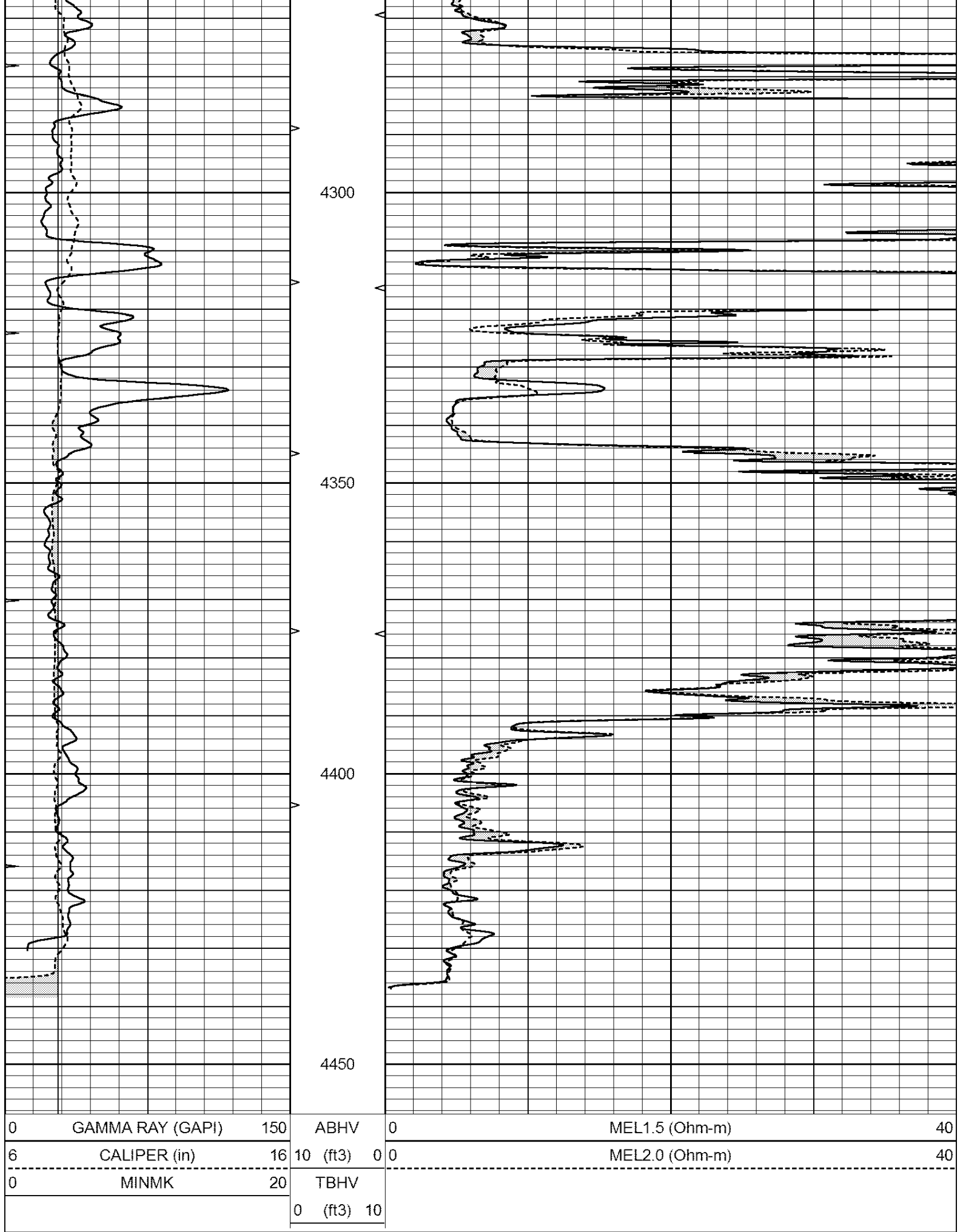




REPEAT SECTION

Database File: 3485ddn.db
 Dataset Pathname: pass4.1
 Presentation Format: _micro
 Dataset Creation: Sat Feb 23 04:49:01 2019 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240





Calibration Report

Database File: 3485ddn.db
Dataset Pathname: pass4.1
Dataset Creation: Sat Feb 23 04:49:01 2019 by Calc Open-Cased 090629

MICRO Calibration Report

Serial Number: MICRO3
Tool Model: PROBE
Performed: Sat Feb 23 04:08:48 2019

Caliper Calibration: Gain=5.761 Offset=-23.202

	Low Cal	High Cal
References	7.000	14.000
Readings	5.339	6.500

1.5" Calibration: Gain=120.000 Offset=0.400

	Low Cal	High Cal
References	0.000	20.000
Readings	0.004	0.228

2" Calibration: Gain=110.553 Offset=0.220

	Low Cal	High Cal
References	0.000	20.000
Readings	0.005	0.175

Gamma Ray Calibration Report

Serial Number: GR5
Tool Model: OPEN
Performed: Sat Feb 23 04:08:23 2019

Calibrator Value: 1.0 GAPI

Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.5600	GAPI/cps