



MICRO LOG

Company DOWNING-NELSON OIL CO., INC.
 Well MARK ARMBRISTER#1-27
 Field FLAX
 County TREGO
 State KANSAS

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Location: API # : 15-195-23034-00-00
 2000 FNL & 2560 FEL
 SEC 27 TWP 13S RGE 21W
 Permanent Datum GROUND LEVEL Elevation 2359'
 Log Measured From KELLY BUSHING 8' A.G.L.
 Drilling Measured From KELLY BUSHING
 Other Services CDL/CNL DIL/SONIC
 Elevation K.B. 2367 D.F. 2365 G.L. 2359

Date	01/21/18
Run Number	TWO
Depth Driller	4245
Depth Logger	4246
Bottom Logged Interval	4226
Top Log Interval	3300
Casing Driller	8 5/8@ 221
Casing Logger	221
Bit Size	7 7/8"
Type Fluid in Hole	CHEMICAL MUD
Density / Viscosity	9.2/57
pH / Fluid Loss	10.0/7.6
Source of Sample	FLOWLINE
Rm @ Meas. Temp	.90@58
Rmt @ Meas. Temp	.68@58
Rmc @ Meas. Temp	1.08@58
Source of Rmf / Rmc	MEASURED
Rm @ BHT	.44@118
Time Circulation Stopped	2 HOURS
Time Logger on Bottom	///
Maximum Recorded Temperature	118F
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

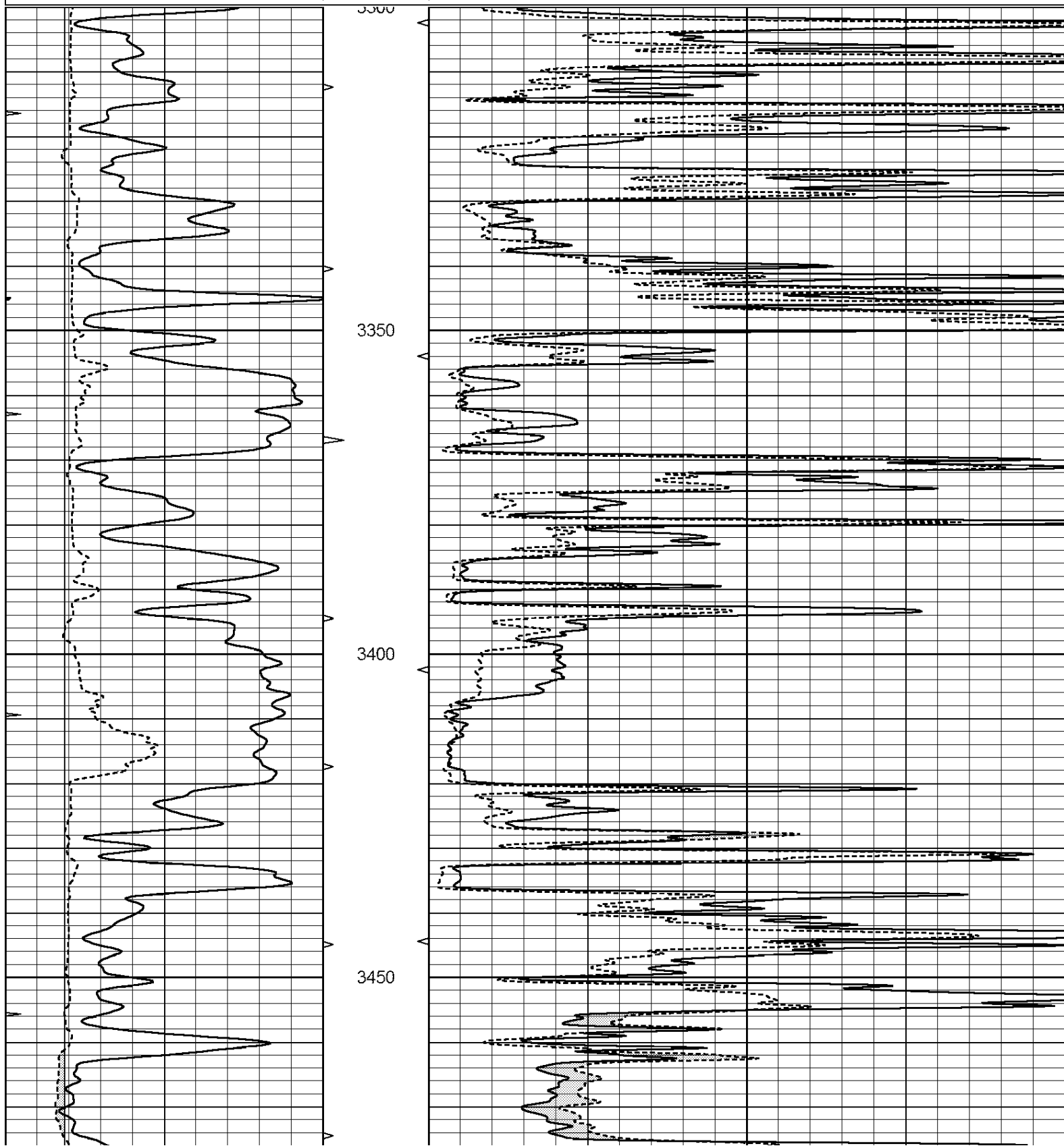
DIRECTIONS
 I 70 RIGGA EXIT SOUTH TO P RD. GO SOUTH ABOUT 3/4 MILE,
 EAST INTO.

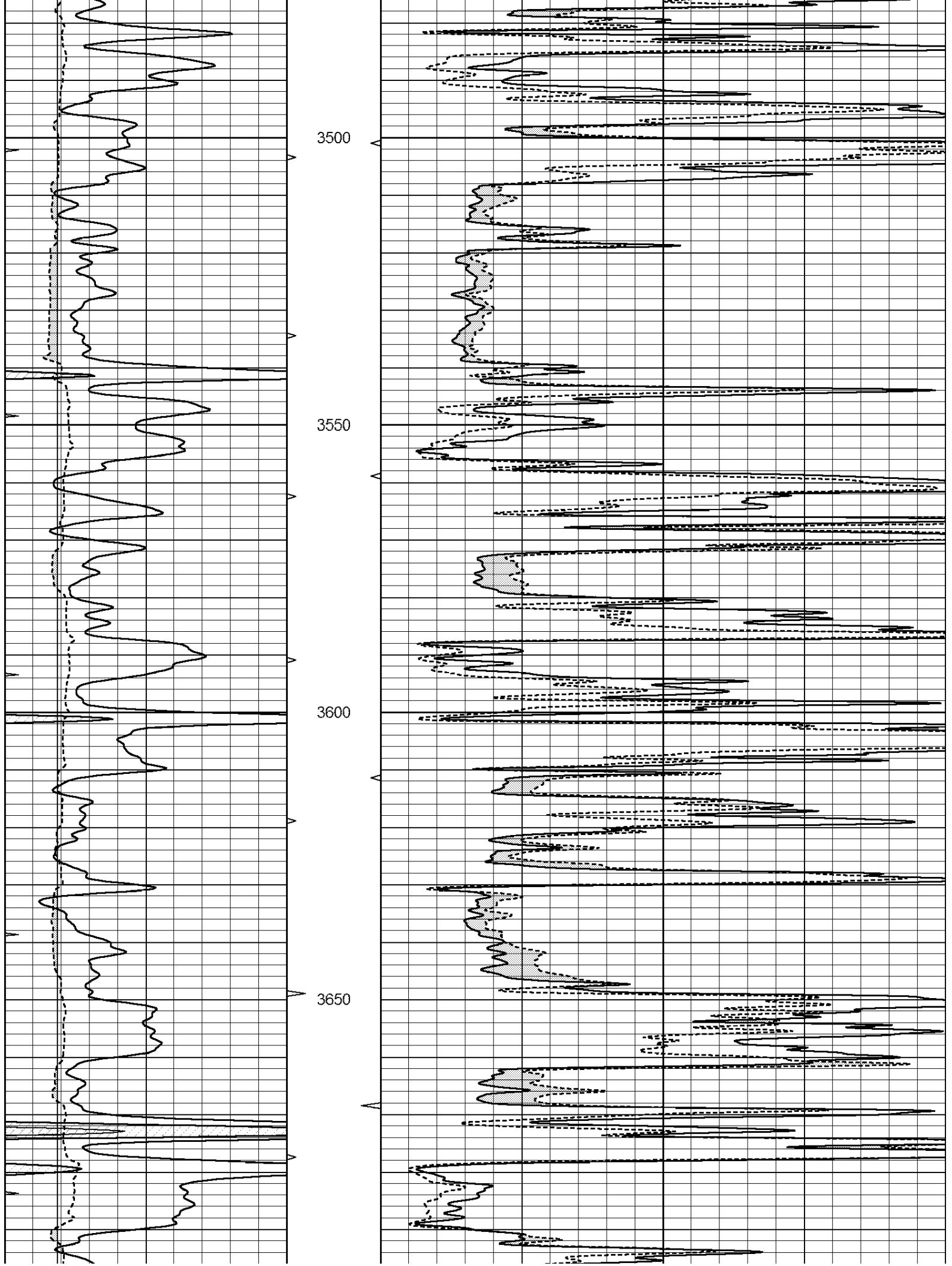


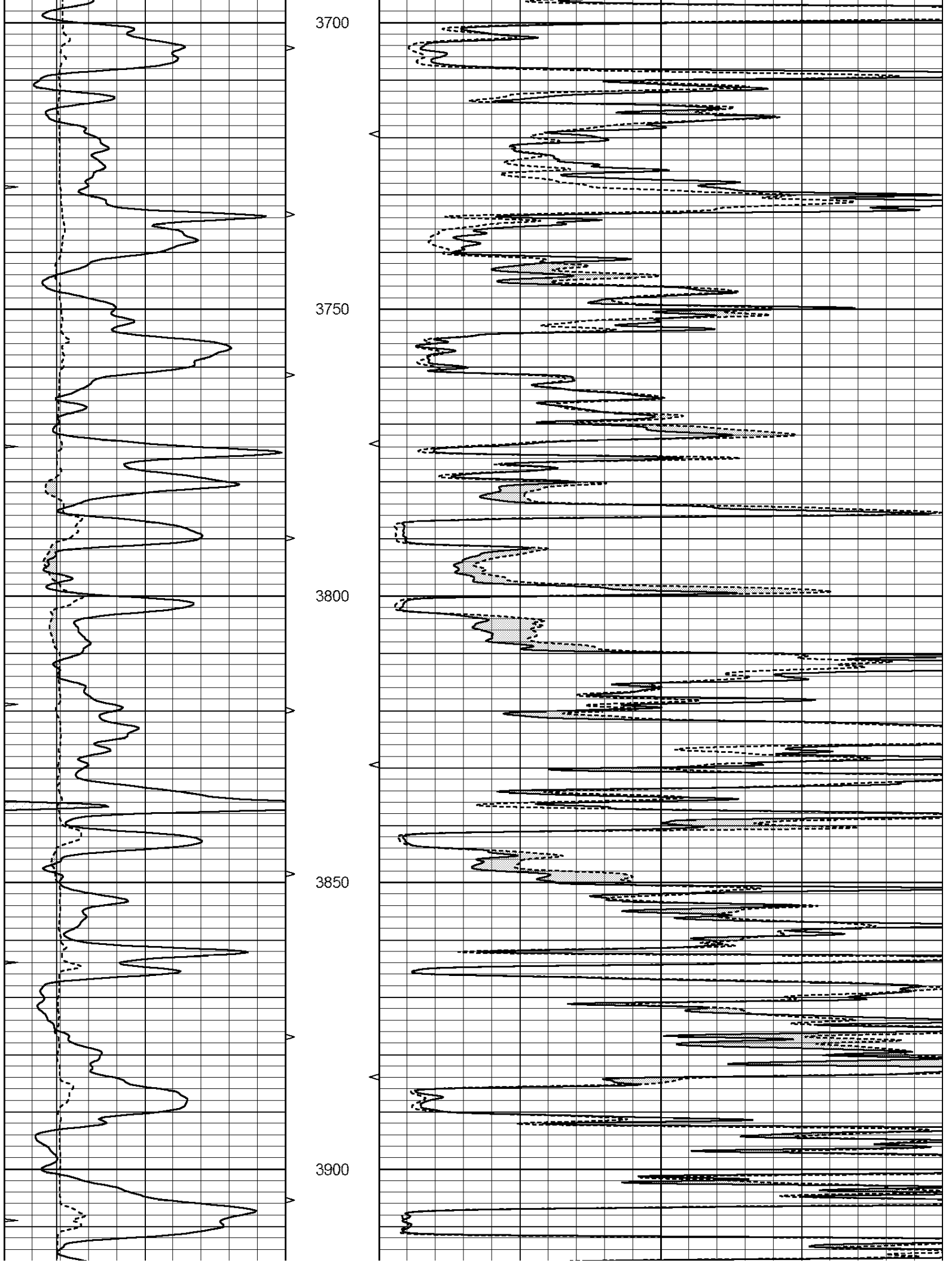
MAIN PASS

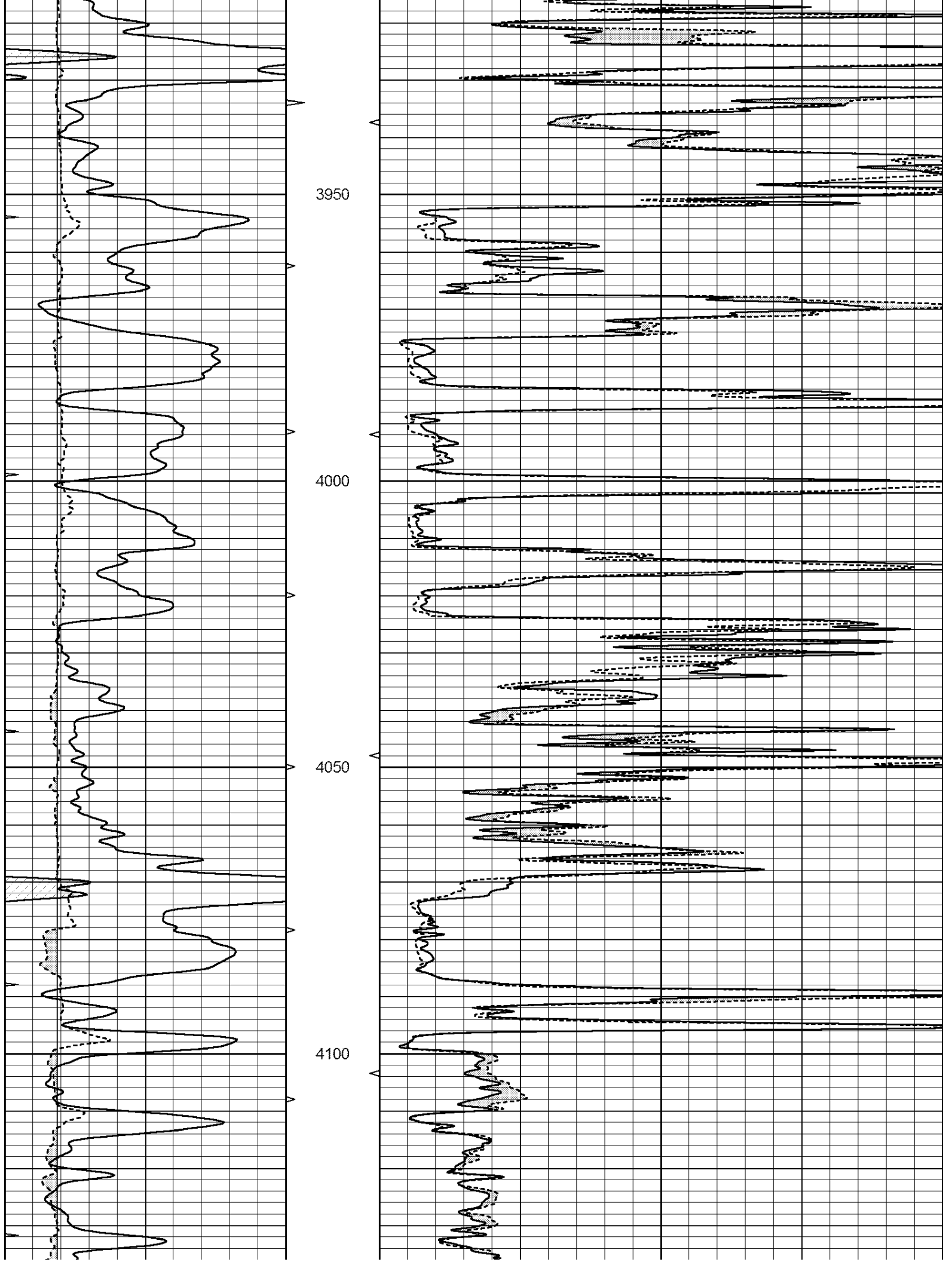
Database File: 2401ddn.db
 Dataset Pathname: pass5MIC
 Presentation Format: _micro
 Dataset Creation: Sun Jan 21 12:01:57 2018 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240

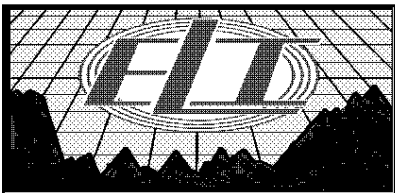
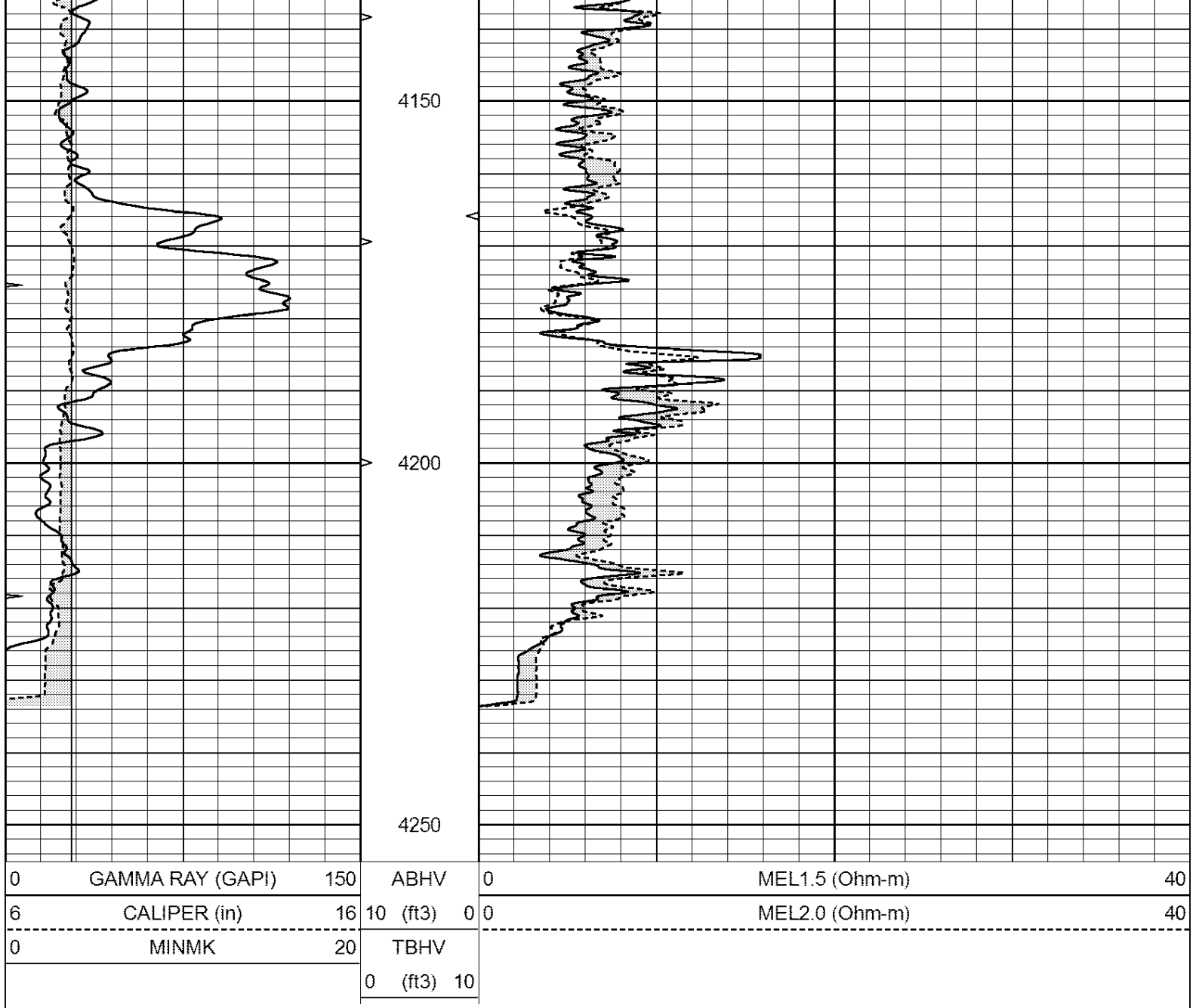
0	GAMMA RAY (GAPI)	150	ABHV	0	MEL1.5 (Ohm-m)	40
6	CALIPER (in)	16	10 (ft3)	0	MEL2.0 (Ohm-m)	40
0	MINMK	20	TBHV			
			0 (ft3)	10		







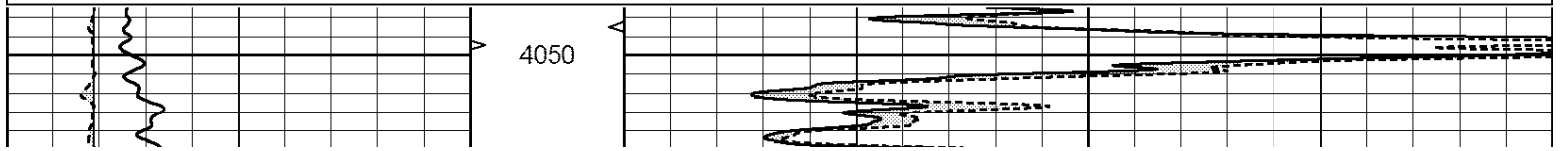


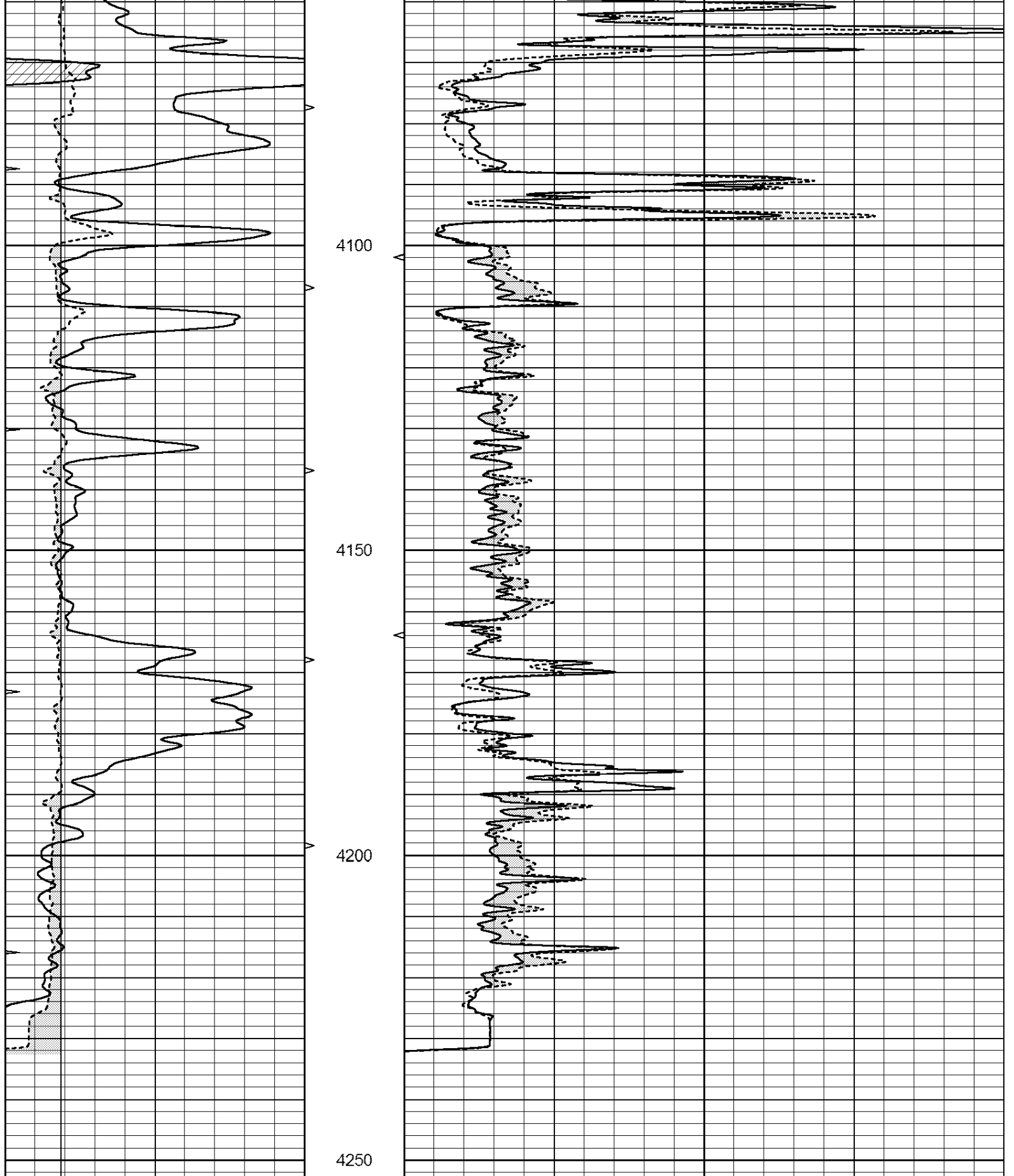


REPEAT SECTION

Database File: 2401ddn.db
 Dataset Pathname: pass4.1
 Presentation Format: _micro
 Dataset Creation: Sun Jan 21 11:54:41 2018 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	0	MEL2.0 (Ohm-m)	40
0	MINMK	20	TBHV			
			0 (ft3) 10			





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		

Calibration Report

Database File: 2401ddn.db
 Dataset Pathname: pass4.1
 Dataset Creation: Sun Jan 21 11:54:41 2018 by Calc Open-Cased 090629

MICRO Calibration Report

Serial Number: MICRO6
 Tool Model: PROBE
 Performed: Wed Aug 16 17:13:39 2017

Caliper Calibration:	Gain=3.960	Offset=4.651
	Low Cal	High Cal
References	7.000	14.000
Readings	0.555	2.323

1.5" Calibration:	Gain=38.075	Offset=-0.400
	Low Cal	High Cal
References	0.000	20.000
Readings	0.004	1.196

2" Calibration:	Gain=45.000	Offset=-1.000
	Low Cal	High Cal
References	0.000	20.000
Readings	0.006	0.913

Gamma Ray Calibration Report

Serial Number: GR2
 Tool Model: OPEN
 Performed: Wed Aug 16 17:13:40 2017

Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.3800	GAPI/cps