



**MICRO
LOG**

Company RAYMOND OIL COMPANY, INC.
 Well MICHAELIS #4
 Field ROSE GARDEN NW
 County LOGAN
 State KANSAS

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 County LOGAN State KANSAS

Location: API # : 15-109-21565-00-00
 2349' FSL & 2627' FEL
 SEC 3 TWP 14S RGE 32W
 Permanent Datum GROUND LEVEL Elevation 2823
 Log Measured From KELLY BUSHING 5' A.G.L.
 Drilling Measured From KELLY BUSHING
 Other Services CDL/CNL/DIL
 Elevation K.B. 2828
 D.F. 2826
 G.L. 2823

Date	10/05/18
Run Number	TWO
Depth Driller	4642
Depth Logger	4642
Bottom Logged Interval	4641
Top Log Interval	3400
Casing Driller	8 5/8" @ 260
Casing Logger	260
Bit Size	7 7/8"
Type Fluid in Hole	CHEMICAL MUD
Density / Viscosity	9.365
pH / Fluid Loss	9.0/10.4
Source of Sample	FLOWLINE
Rm @ Meas. Temp	.7@68
Rmt @ Meas. Temp	.53@68
Rmc @ Meas. Temp	.84@68
Source of Rmf / Rmc	MEASURED
Rm @ BHT	.39@121
Time Circulation Stopped	2 HOURS
Time Logger on Bottom	///
Maximum Recorded Temperature	121F
Equipment Number	4010
Location	HAYS, KANSAS
Recorded By	GUS PFANENSTIEL
Witnessed By	KIM SHOEMAKER

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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

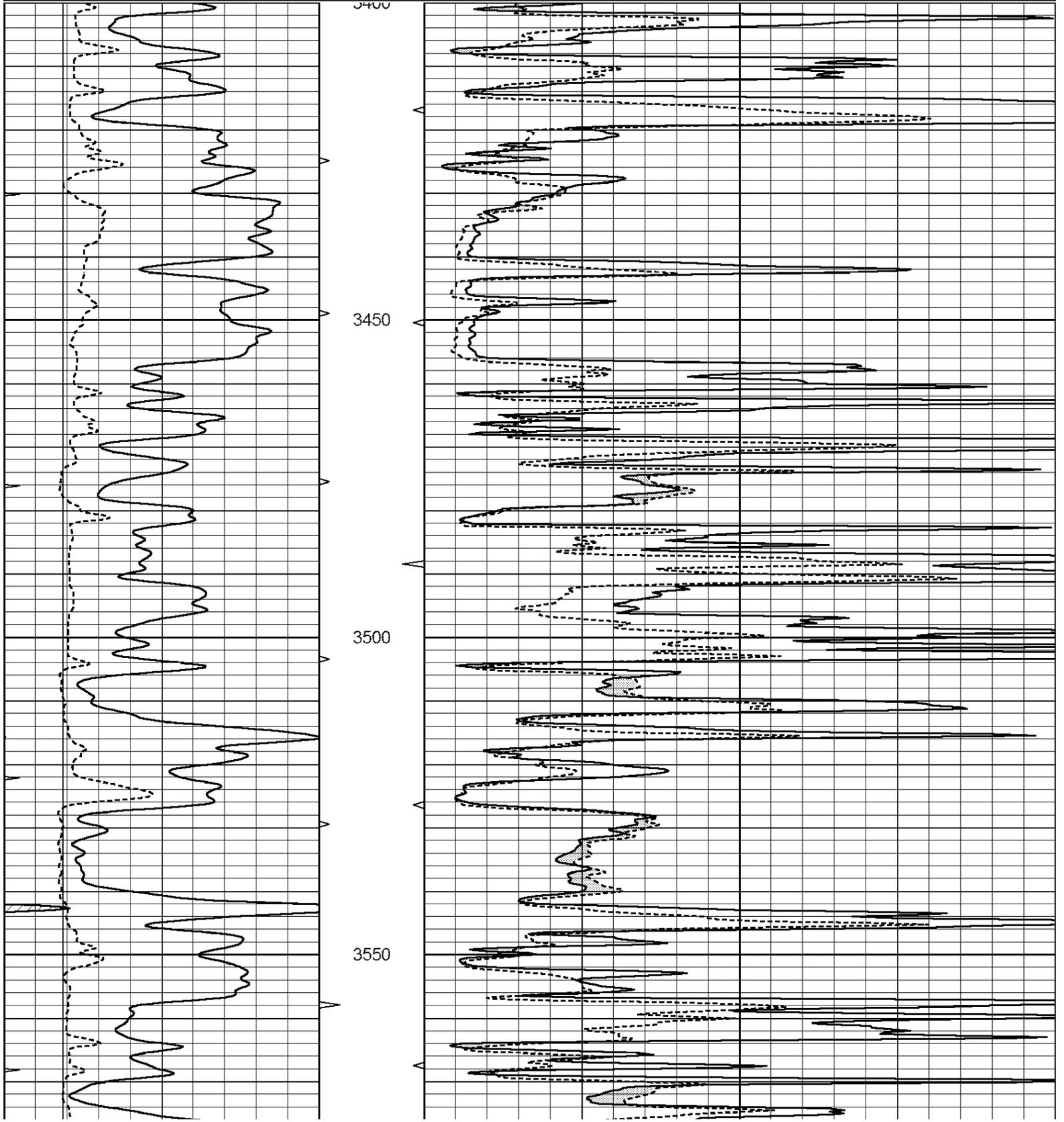
DIRECTIONS
 SOUTH OF OAKLEY TO MUSTANG RD(17 MILES).
 1 WEST, SOUTH EAST INTO.

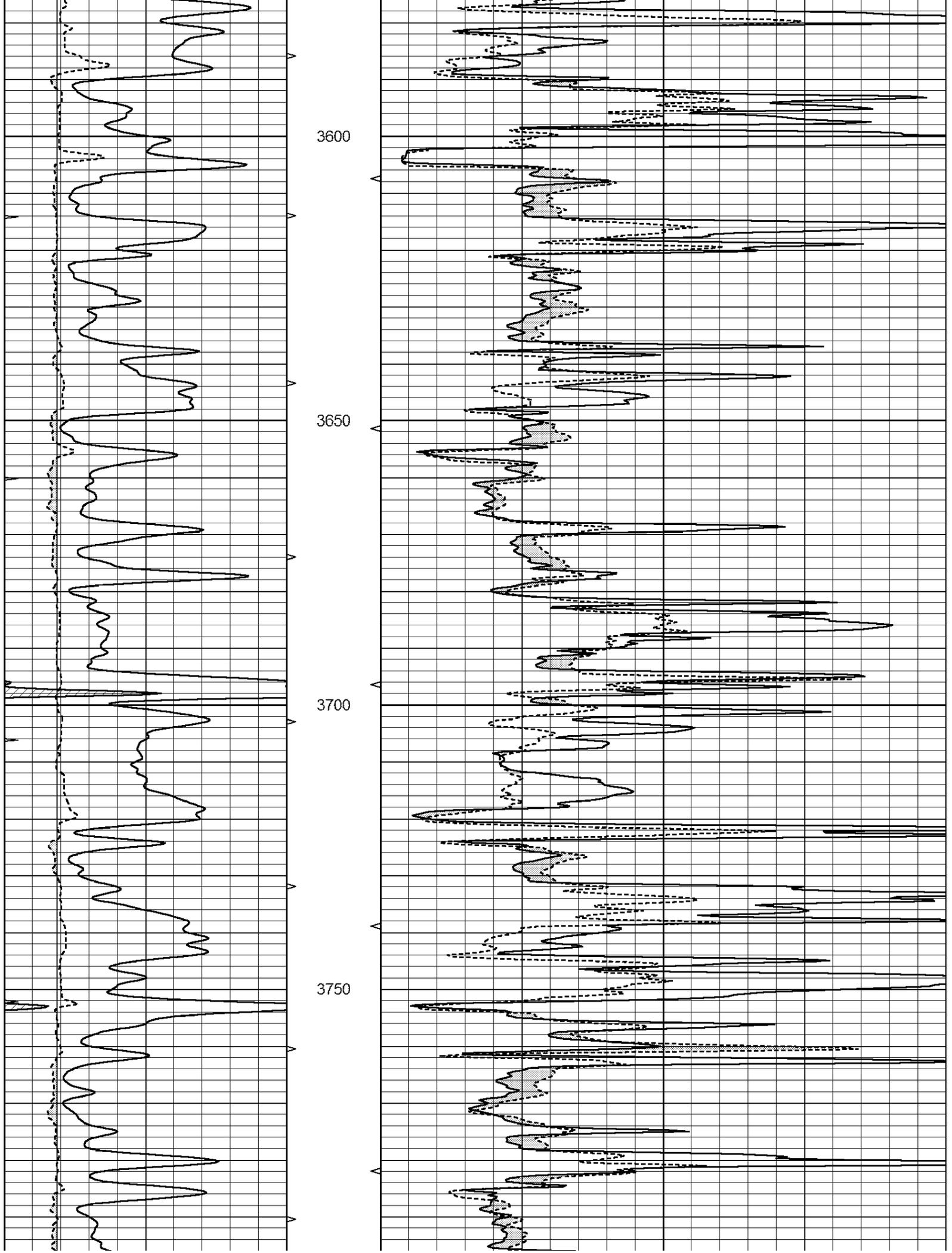


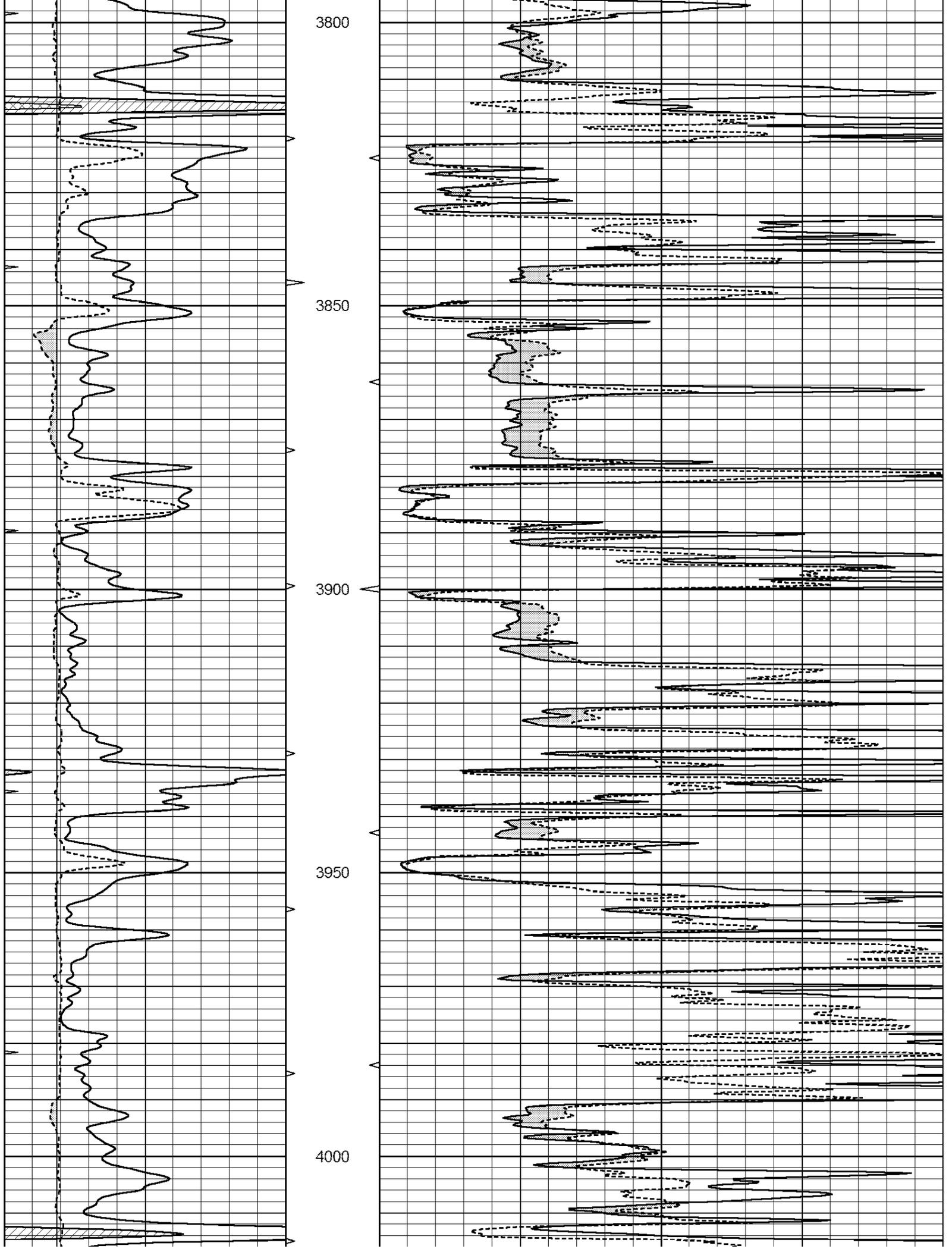
MAINPASS

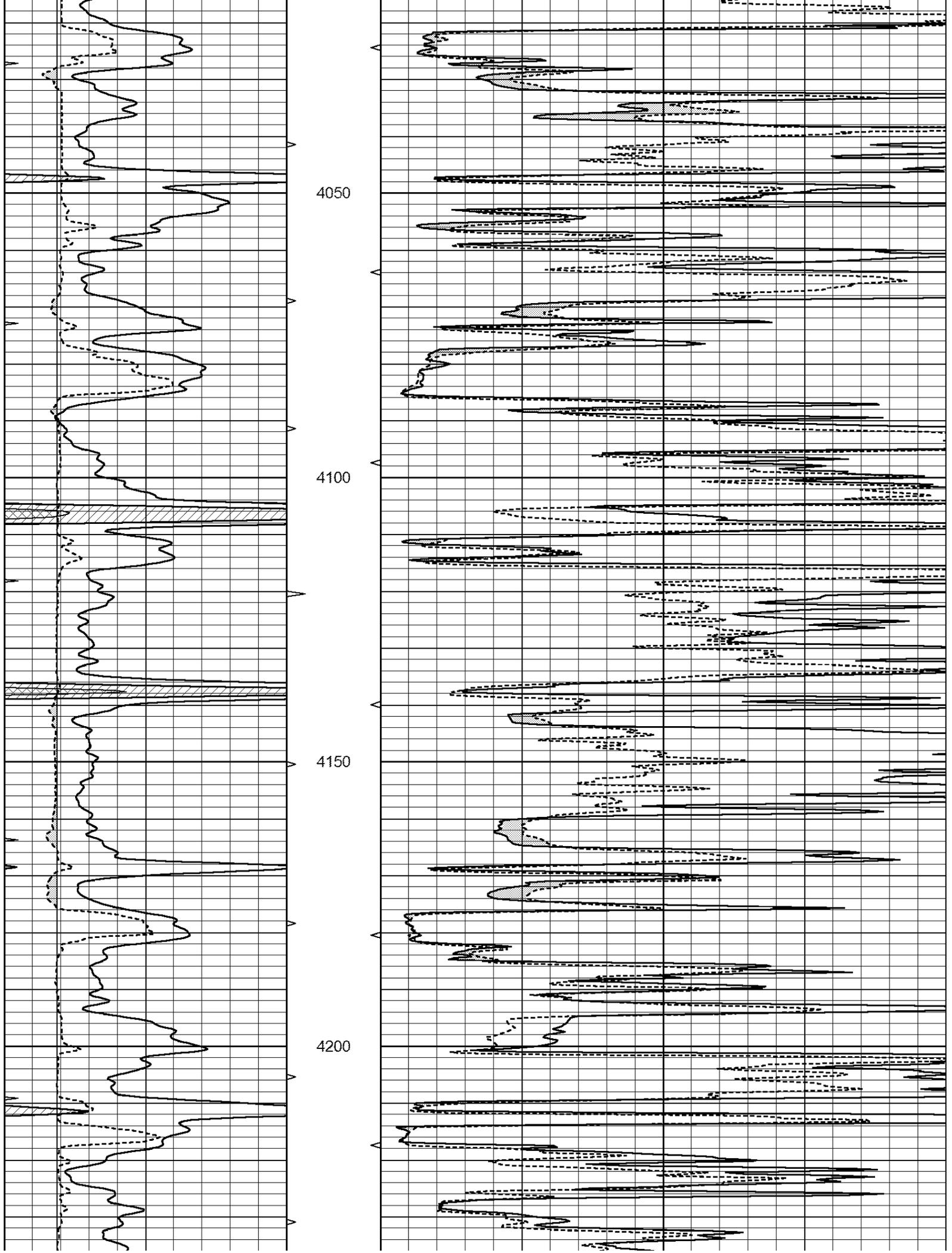
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 Dataset Pathname: pass5.1
 Presentation Format: _micro
 Dataset Creation: Fri Oct 05 11:05:19 2018
 Charted by: Depth in Feet scaled 1:240

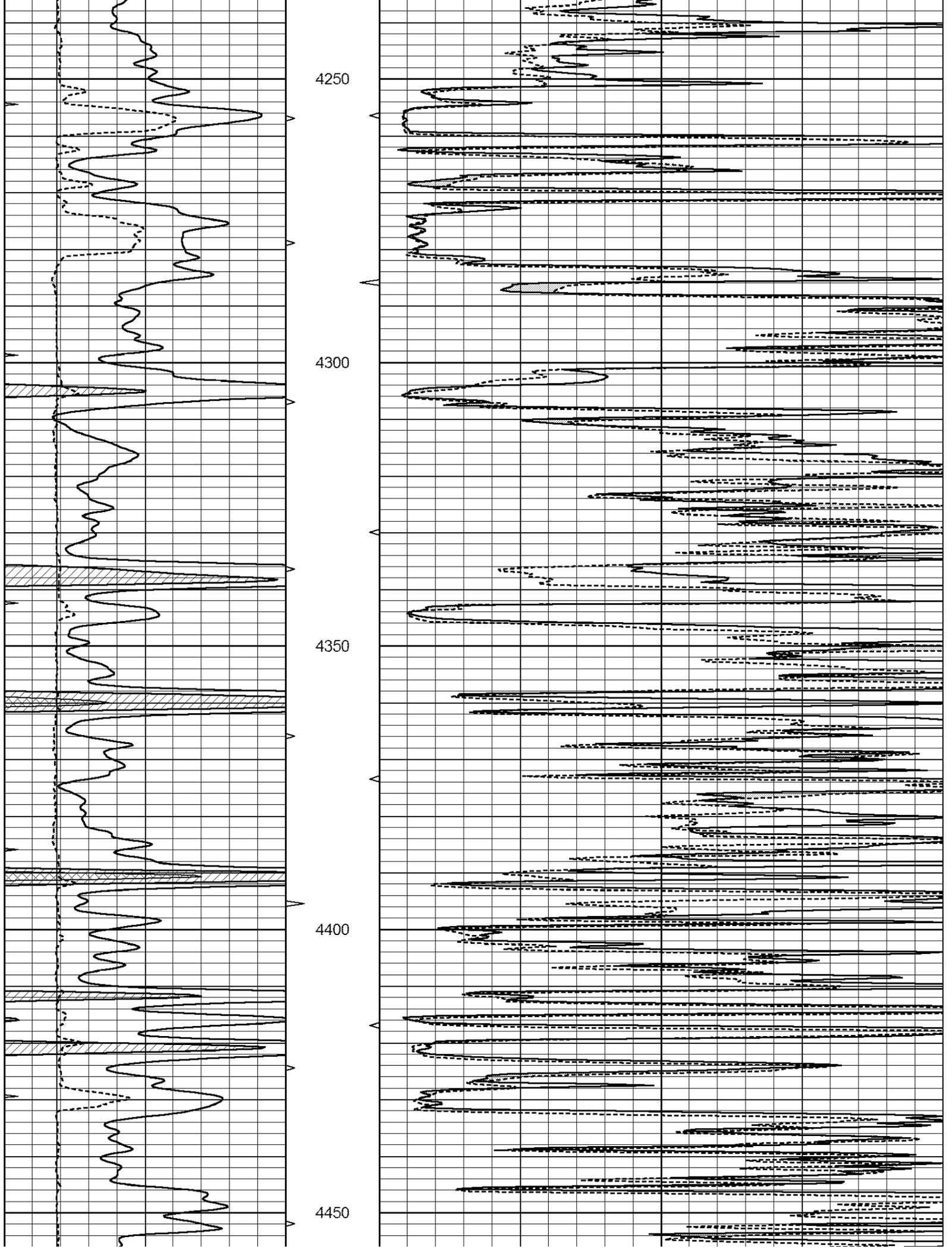
0	GAMMA RAY (GAPI)	150	ABHV	0	MEL1.5 (Ohm-m)	40
6	CALIPER (in)	16	10 (ft3)	0	MEL2.0 (Ohm-m)	40
0	MINMK	20	TBHV			
			0 (ft3)	10		

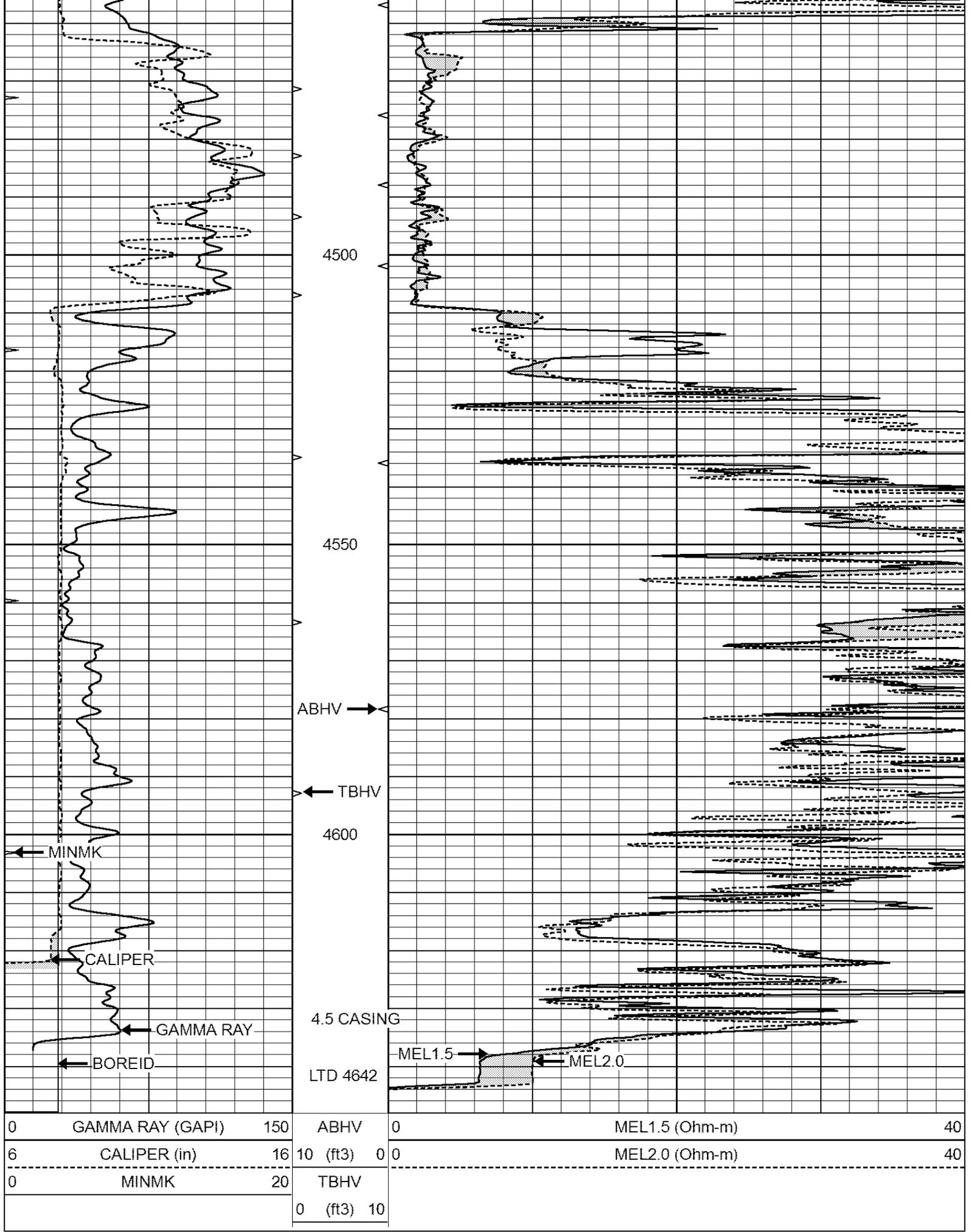


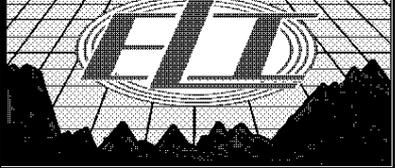








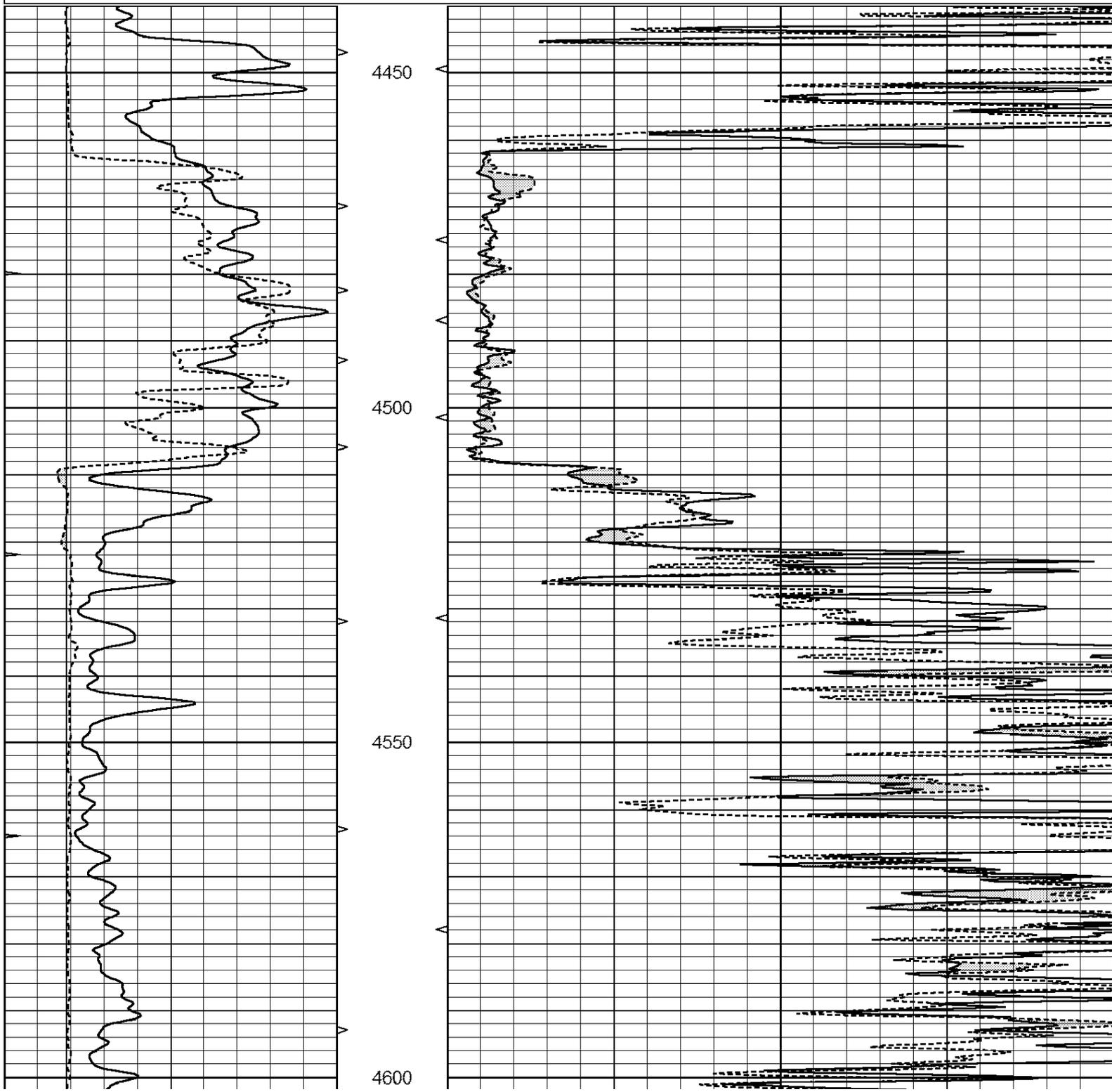


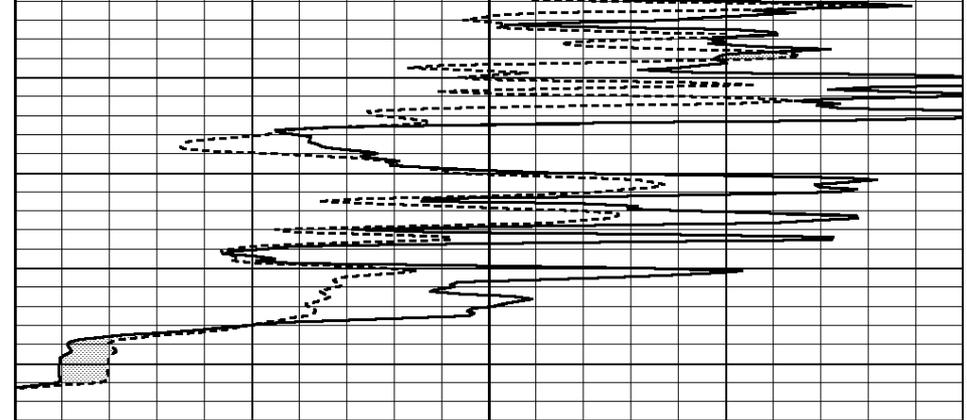
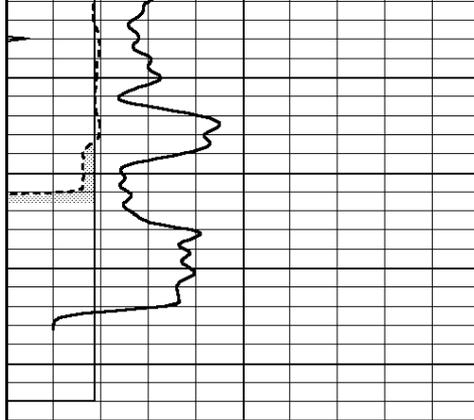


REPEAT SECTION

Database File: 2920ddn.db
Dataset Pathname: pass4.1
Presentation Format: _micro
Dataset Creation: Fri Oct 05 10:44:29 2018
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		





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: 2920ddn.db
 Dataset Pathname: pass4.1
 Dataset Creation: Fri Oct 05 10:44:29 2018

MICRO Calibration Report

Serial Number: MICRO4
 Tool Model: PROBE
 Performed: Tue Sep 25 18:25:59 2018

Caliper Calibration: Gain=3.238 Offset=-10.624

	Low Cal	High Cal
References	7.000	14.000
Readings	5.800	8.104

1.5" Calibration: Gain=43.717 Offset=-0.618

	Low Cal	High Cal
References	0.000	20.000
Readings	0.007	1.280

2" Calibration: Gain=51.130 Offset=-0.687

	Low Cal	High Cal
References	0.000	20.000
Readings	0.040	1.208

Gamma Ray Calibration Report

Serial Number: GR5
 Tool Model: OPEN
 Performed: Sun Sep 30 12:56:34 2018

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
 Calibrator Reading: 1.0 cps

Sensitivity: 0.6000 GAPI/cps