MICRO LOG

Company	EDISON OPERATING COMPANY LLC.
Well	ALLENDER #1-26
Field	ST. JOHN
County	STAFFORD
State	KANSAS

Company EDISON OPERATING COMPANY LLC.
Well ALLENDER #1-26
Field ST. JOHN
County STAFFORD State KANSAS
Location: API # : 15-185-24001-00-00
378' FNL & 1174' FWL
SEC 26 TWP 24S RGE 13W
Permanent Datum GROUND LEVEL Elevation 1914'
Log Measured From KELLY BUSHING 9' A.G.L.
Drilling Measured From KELLY BUSHING

Other Services: CDL/CNL/DIL SONIC

Elevation: K.B. 1923' D.F. 1921 G.L. 1914

Date	11/14/17		
Run Number	TWO		
Depth Driller	4175		
Depth Logger	4176		
Bottom Logged Interval	4124		
Top Log Interval	2900		
Casing Driller	8 5/8" @ 442		
Casing Logger	442		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.7/77		
pH / Fluid Loss	8.0/13.6		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.50@60		
Rmf @ Meas. Temp	.38@60		
Rmc @ Meas. Temp	.60@60		
Source of Rmf / Rmc	MEASURED		
Rm @ BHT	.25@118		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	////		
Maximum Recorded Temperature	116F		
Equipment Number	4010		
Location	HAYS, KANSAS		
Recorded By	GUS PFANENSTIEL		
Witnessed By	DEREK PATTERSON		

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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

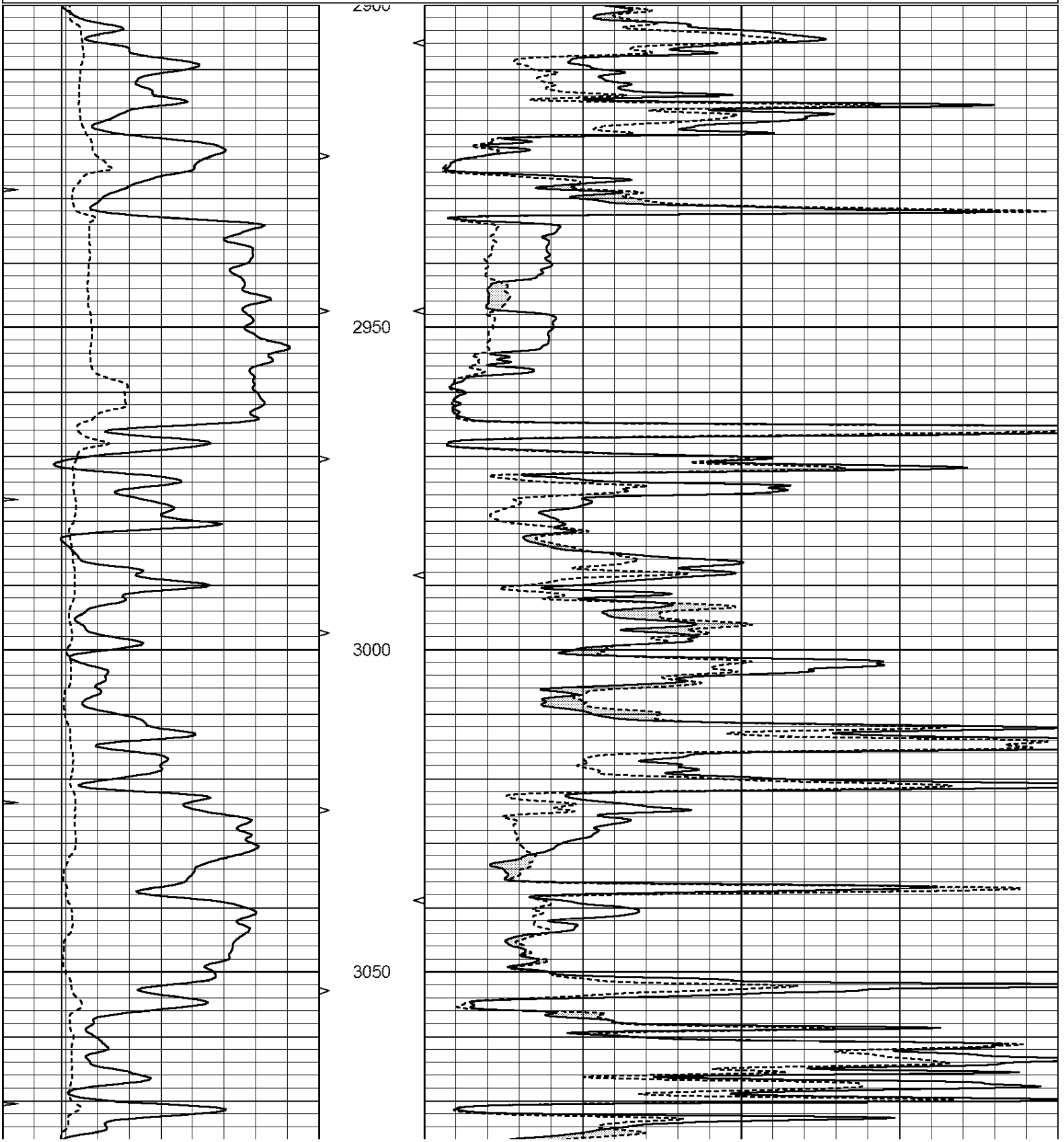
THANK YOU FOR USING ELI WIRELINE, HAYS, KS. (785) 628-6395

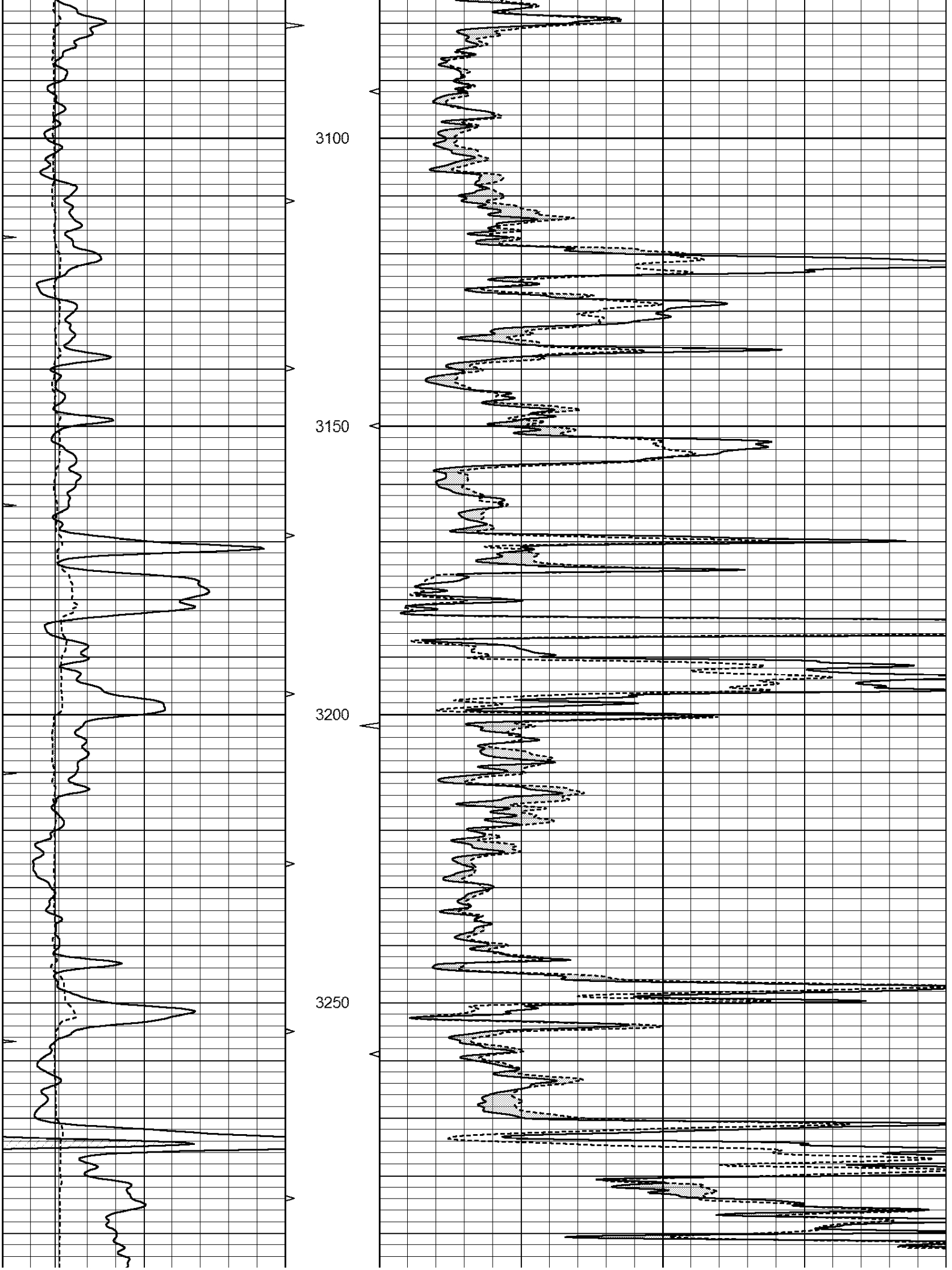
DIRECTIONS
SOUTH OF ST. JOHN TO RD. 10,
1 1/4 MILE EAST,
SOUTH INTO.

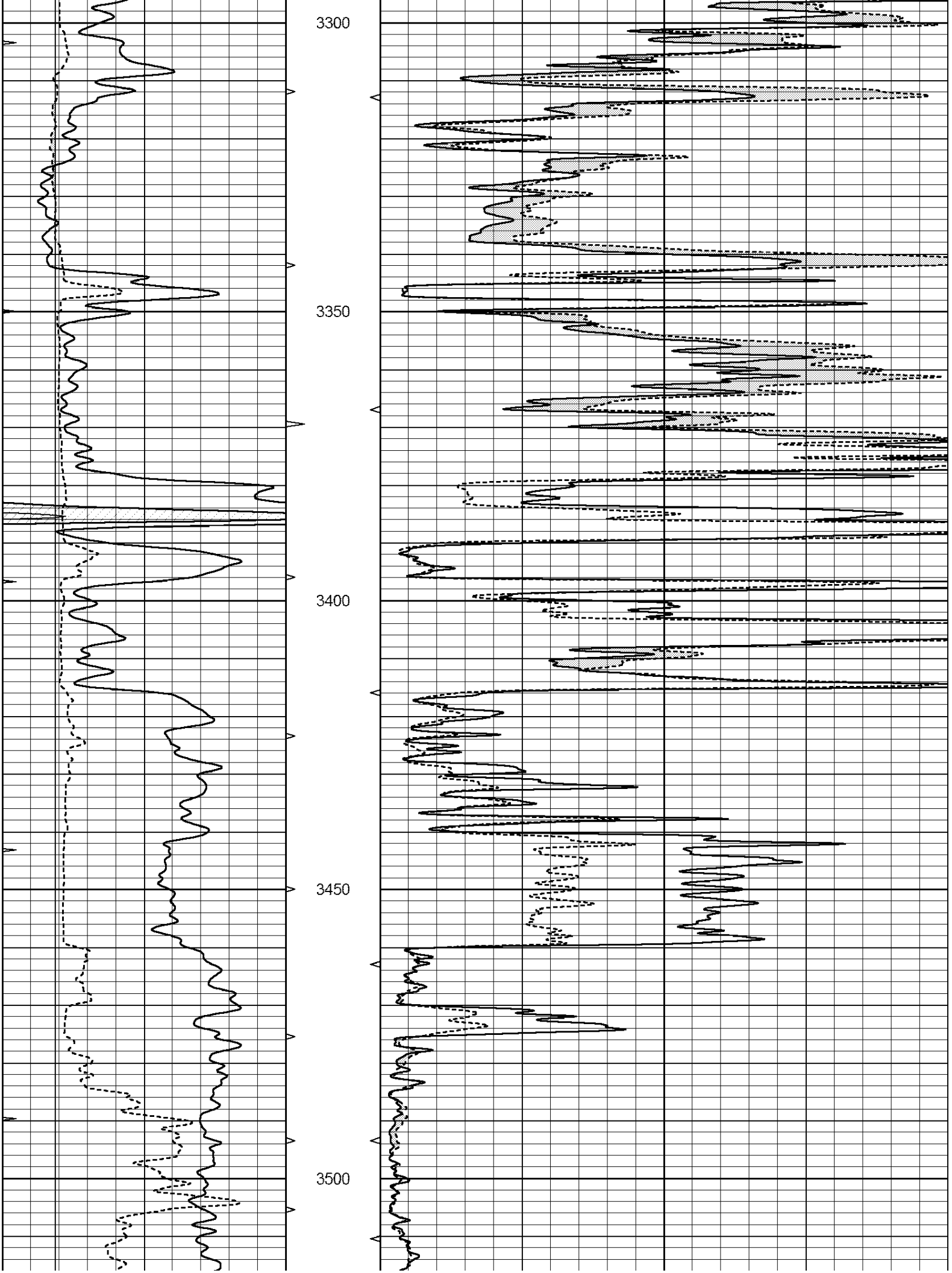
MAIN PASS

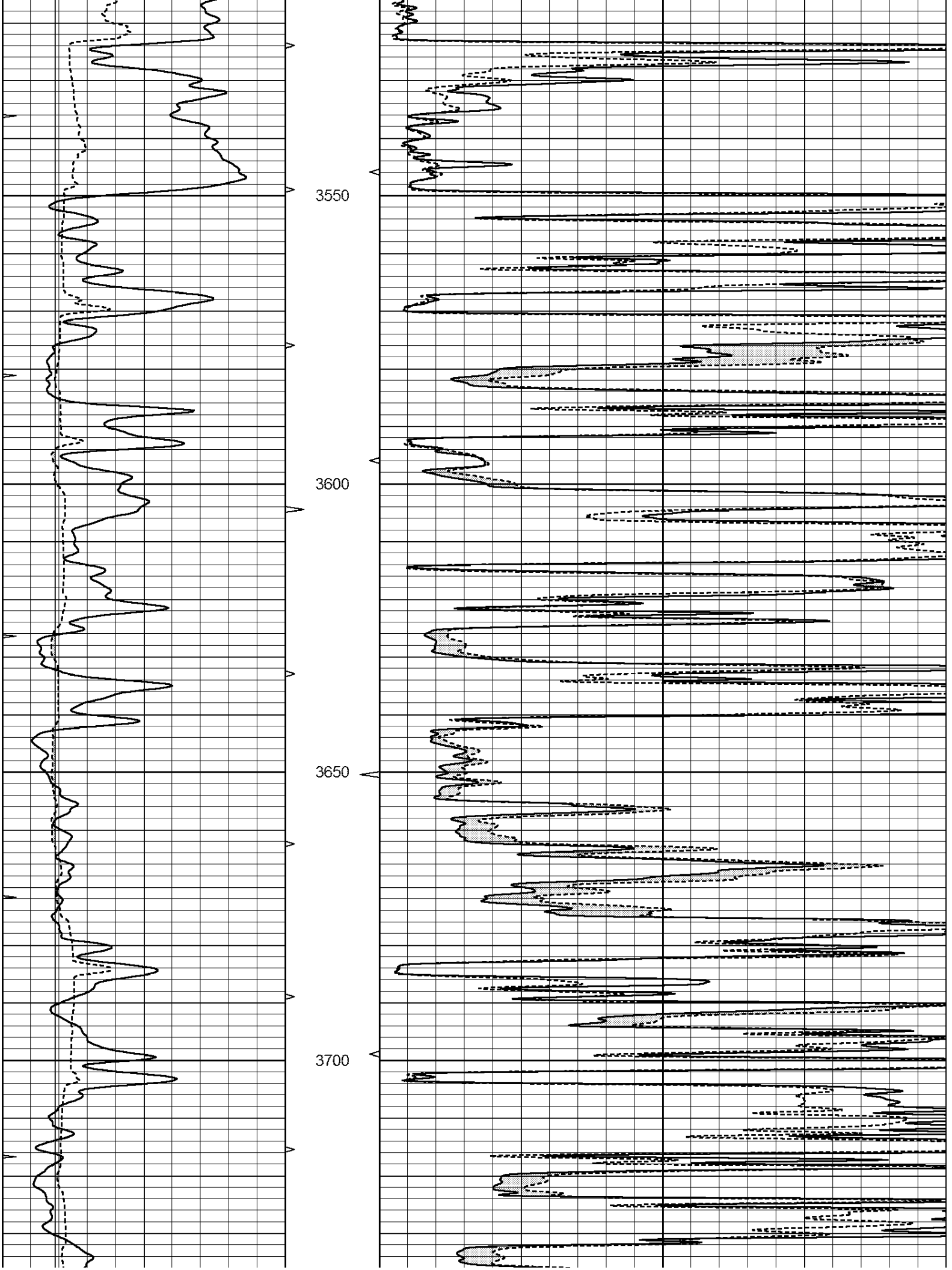
Database File:	2108pe.db
Dataset Pathname:	pass5.1
Presentation Format:	_micro
Dataset Creation:	Tue Nov 14 23:47:05 2017 by Calc Open-Cased 090629
Charted by:	Depth in Feet scaled 1:240

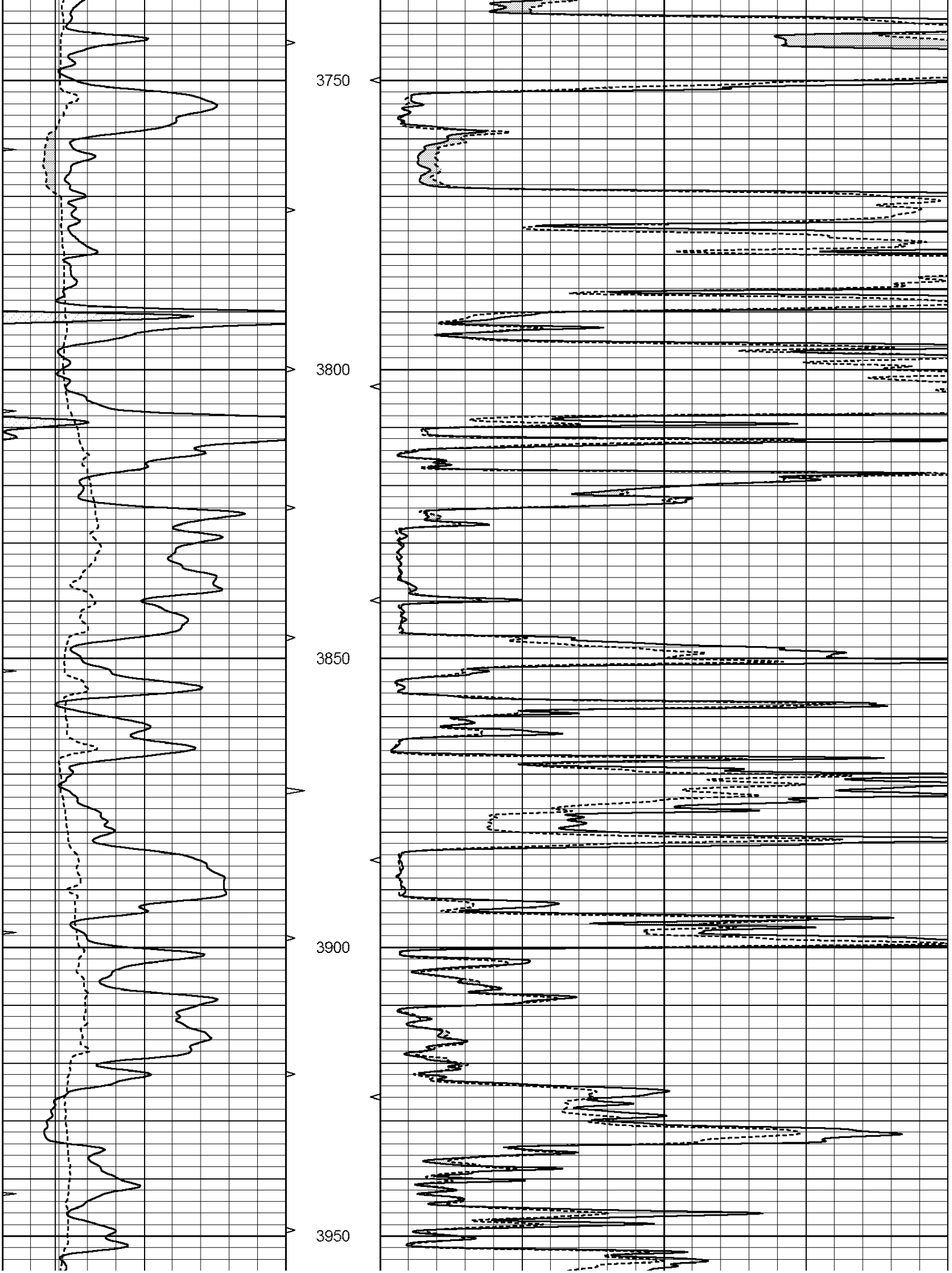
0 GAMMA RAY (GAPI) 150	ABHV	0 MEL1.5 (Ohm-m) 40
6 CALIPER (in) 16	10 (ft3) 0	0 MEL2.0 (Ohm-m) 40
0 MINMK 20	TBHV	
	0 (ft3) 10	

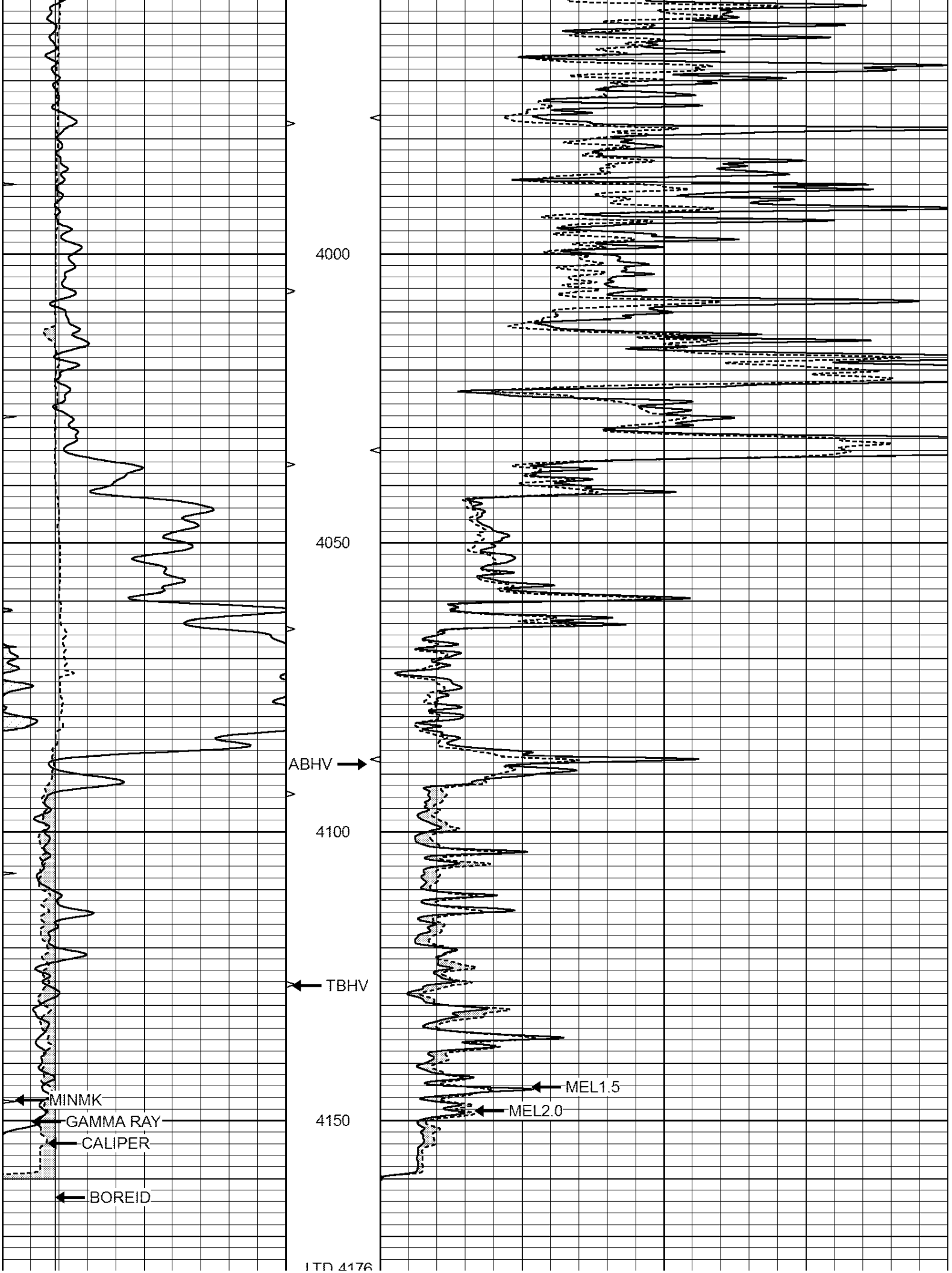



3100
3150
3200
3250


3300
3350
3400
3450
3500


3550
3600
3650
3700


3750
3800
3850
3900
3950

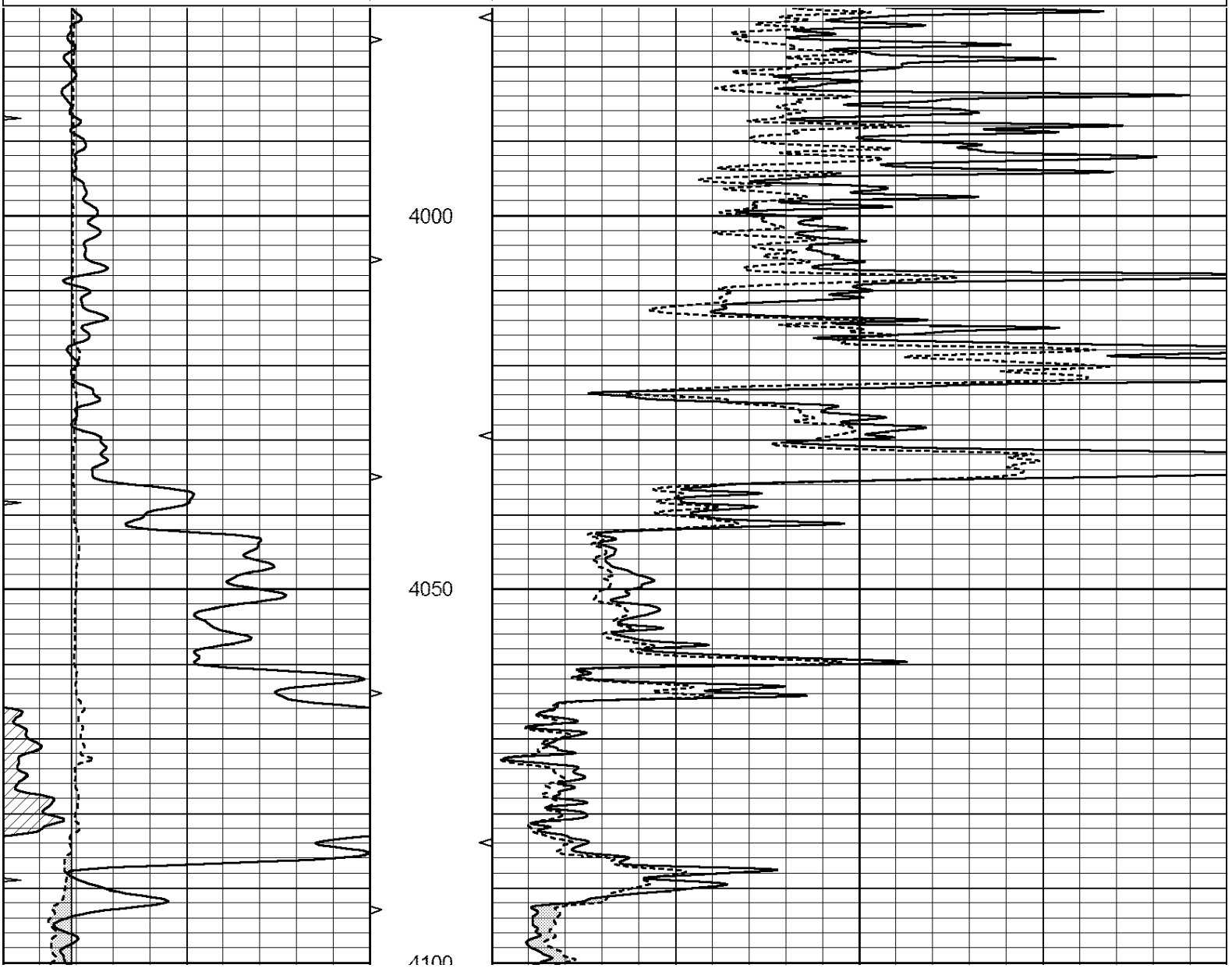

4000
4050
ABHV
4100
TBHV
MEL1.5
MEL2.0
MINMK
GAMMA RAY
CALIPER
4150
BOREID
LTD 4176

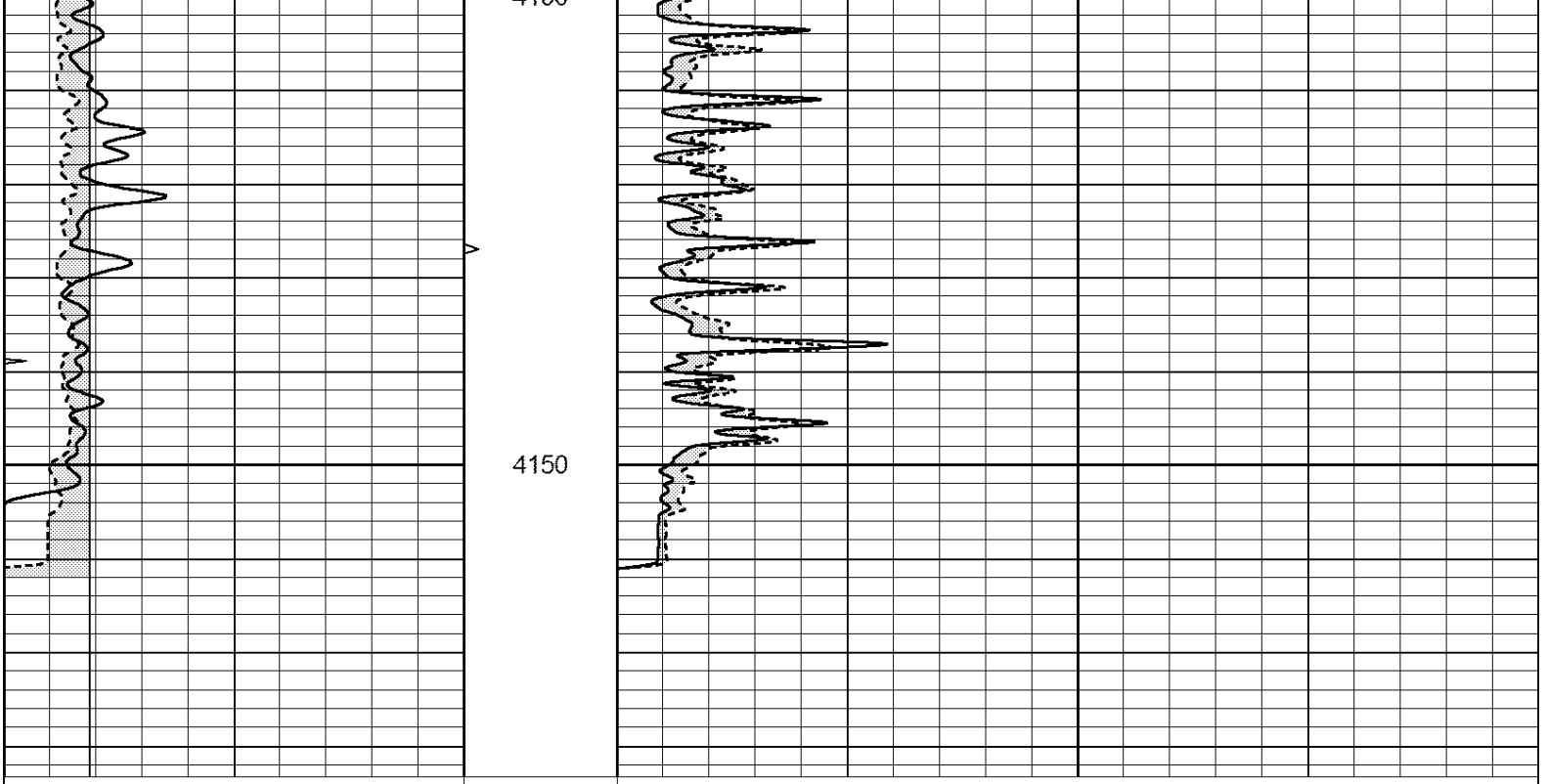
0	GAMMA RAY (GAPI)	150	ABHV	0	MEL1.5 (Ohm-m) 40
6	CALIPER (in)	16	10 (ft3) 0	0	MEL2.0 (Ohm-m) 40
0	MINMK	20	TBHV		
			0 (ft3) 10		

REPEAT SECTION

Database File: 2108pe.db
Dataset Pathname: pass4.1
Presentation Format: _micro
Dataset Creation: Tue Nov 14 23:25:01 2017 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	0	MEL2.0 (Ohm-m) 40
0	MINMK	20	TBHV		
			0 (ft3) 10		

Calibration Report

Database File: 2108pe.db
Dataset Pathname: pass4.1
Dataset Creation: Tue Nov 14 23:25:01 2017 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=4.551

	Low Cal	High Cal
References	7.000	14.000
Readings	0.555	2.323

1.5" Calibration: Gain=36.075 Offset=-0.400

	Low Cal	High Cal
References	0.000	20.000
Readings	0.004	1.196

2" Calibration: Gain=50.000 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