MICRO LOG

Company GRUNDER OIL, LLC.
Well GRUNDER #3
Field LEESBURG
County STAFFORD
State KANSAS

Location: API # : 15-185-24050-0000
480' FNL & 1670' FWL
SEC 14 TWP 25S RGE 13W

Permanent Datum GROUND LEVEL Elevation 1921
Log Measured From KELLY BUSHING 6' A.G.L.
Drilling Measured From KELLY BUSHING

Other Services
CDL/CNL
DIL

Elevation
K.B. 1927
D.F. 1925
G.L. 1921

Date	12/01/19		
Run Number	TWO		
Depth Driller	4335		
Depth Logger	4334		
Bottom Logged Interval	4333		
Top Log Interval	3000		
Casing Driller	8 5/8" @ 645		
Casing Logger	645		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.4/54		
pH / Fluid Loss	10.0/12.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.56 @ 55F		
Rmf @ Meas. Temp	.42 @ 55F		
Rmc @ Meas. Temp	.68 @ 55F		
Source of Rmf / Rmc	MEASURED		
Rm @ BHT	.25@ 119F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	////		
Maximum Recorded Temperature	119F		
Equipment Number	1523		
Location	HAYS, KANSAS		
Recorded By	GUS PFANENSTIEL		
Witnessed By	KEATON JONES		

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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

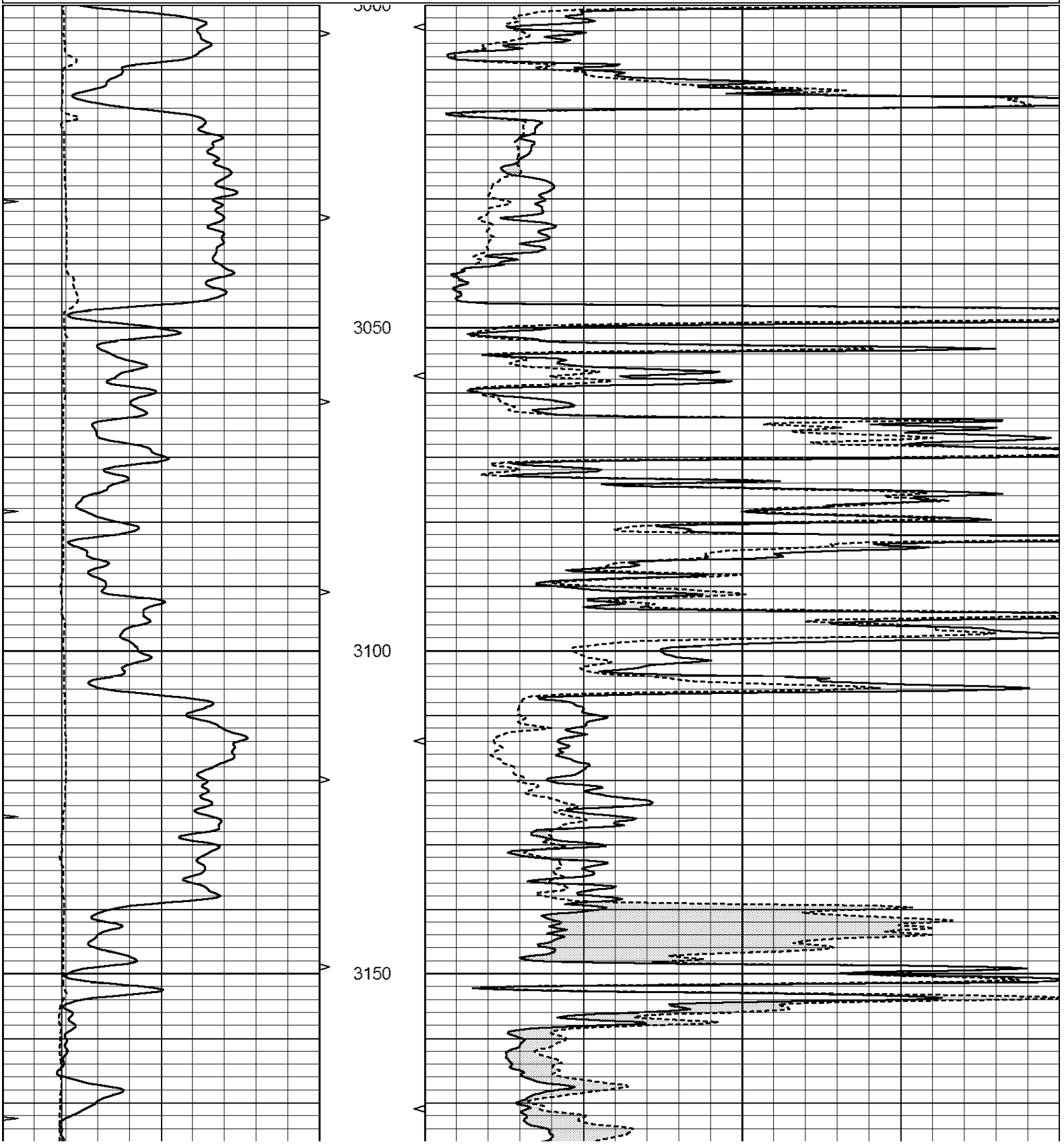
THANK YOU FOR USING ELI WIRELINE, HAYS, KS. (785) 628-6395

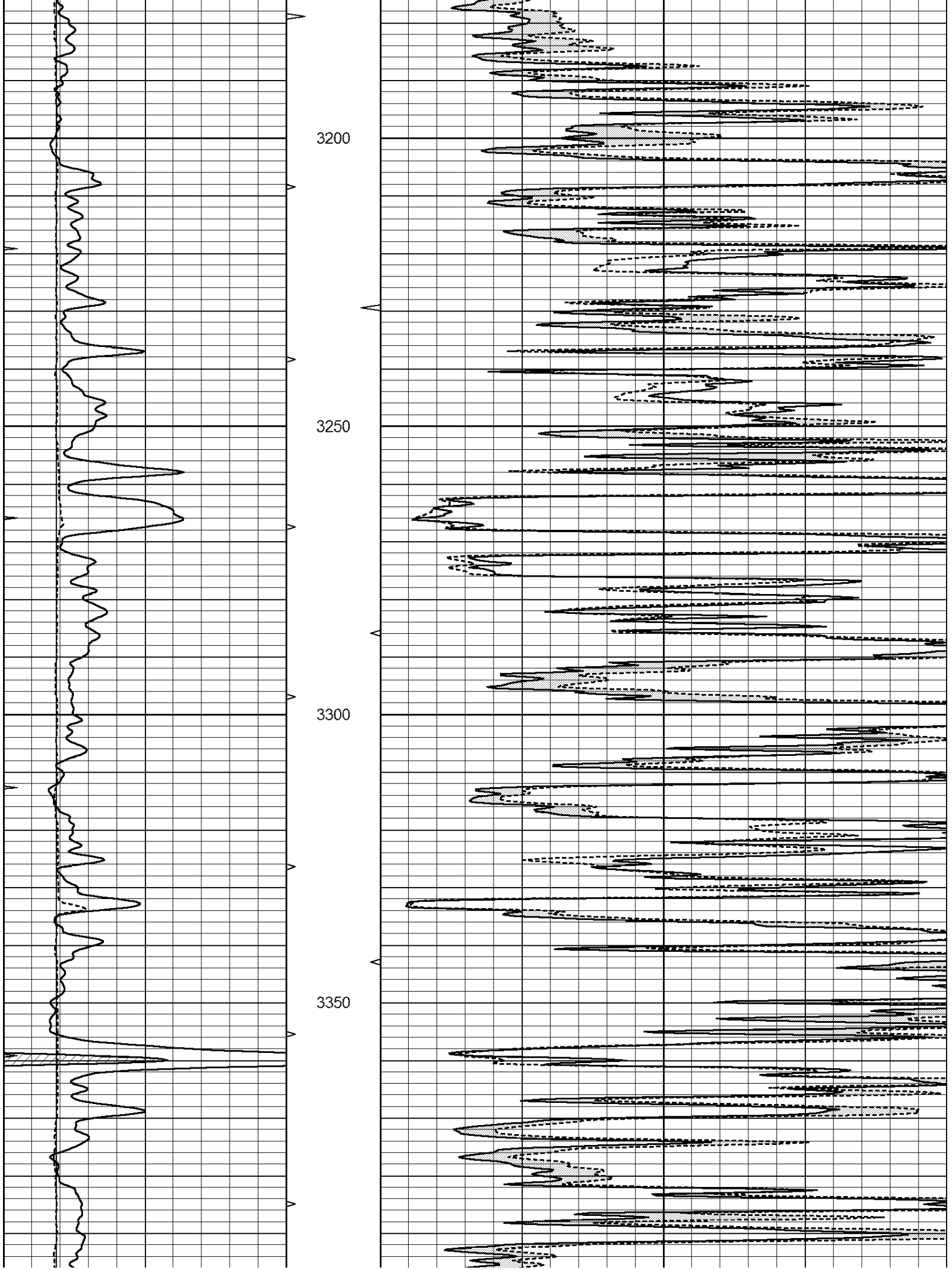
DIRECTIONS
ST. JOHN SOUTH TO 50 TH RD.
EAST 1.5 MILES, SOUTH INTO.

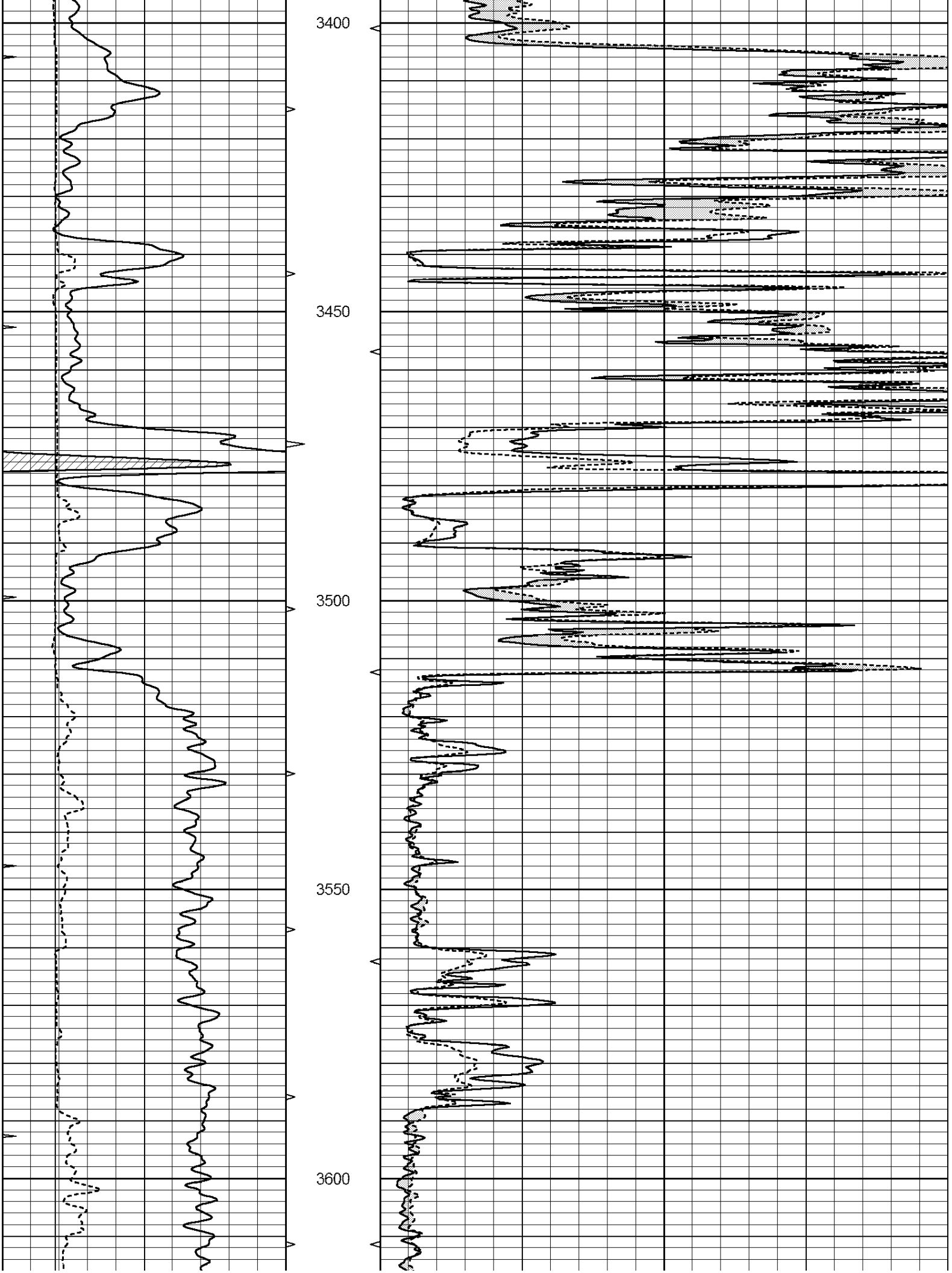
MAIN PASS

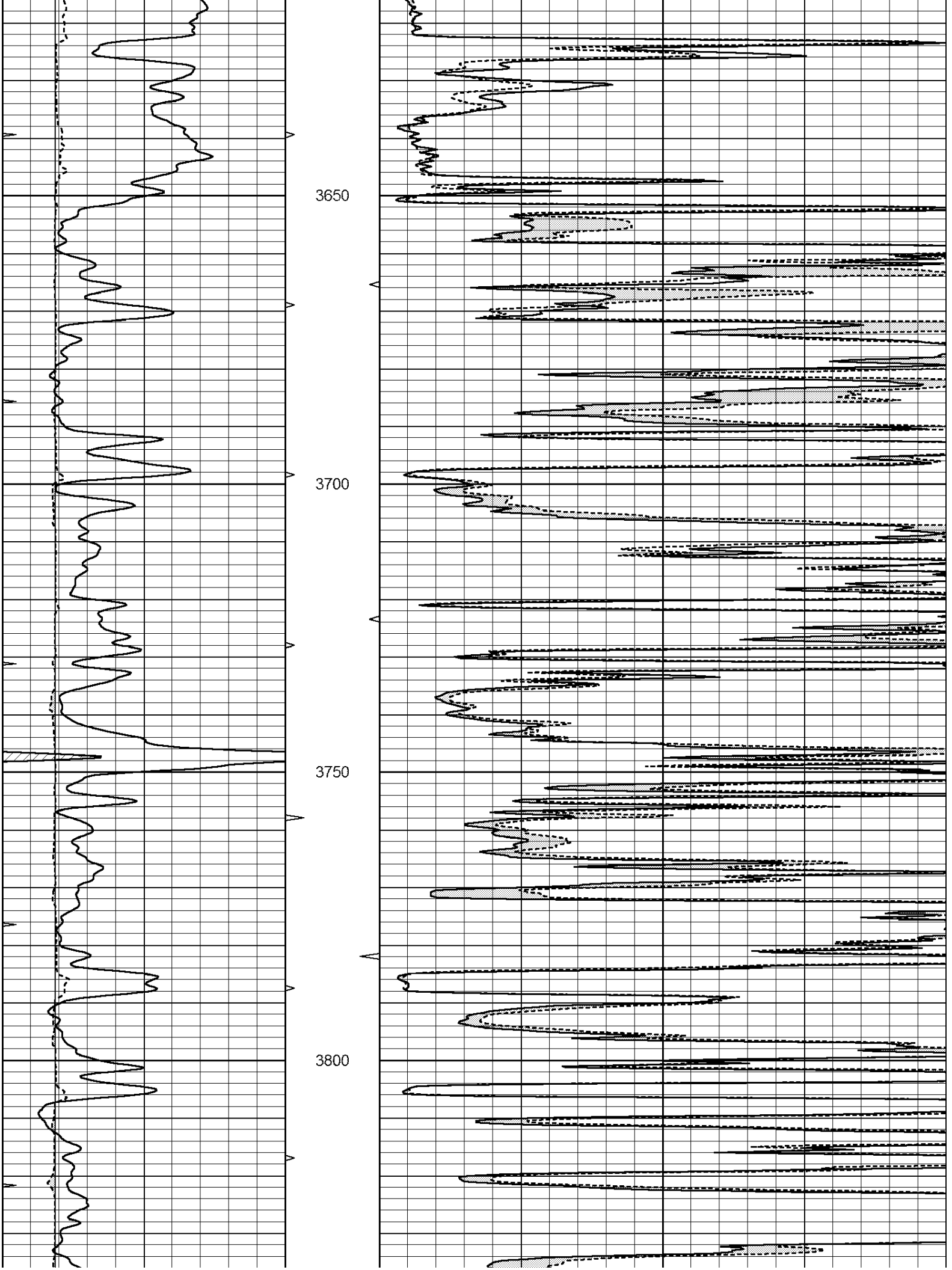
Database File:	4464ddn.db
Dataset Pathname:	pass6.1
Presentation Format:	_micro
Dataset Creation:	Sun Dec 01 05:07:40 2019 by Calc Open-Cased 090629
Charted by:	Depth in Feet scaled 1:240

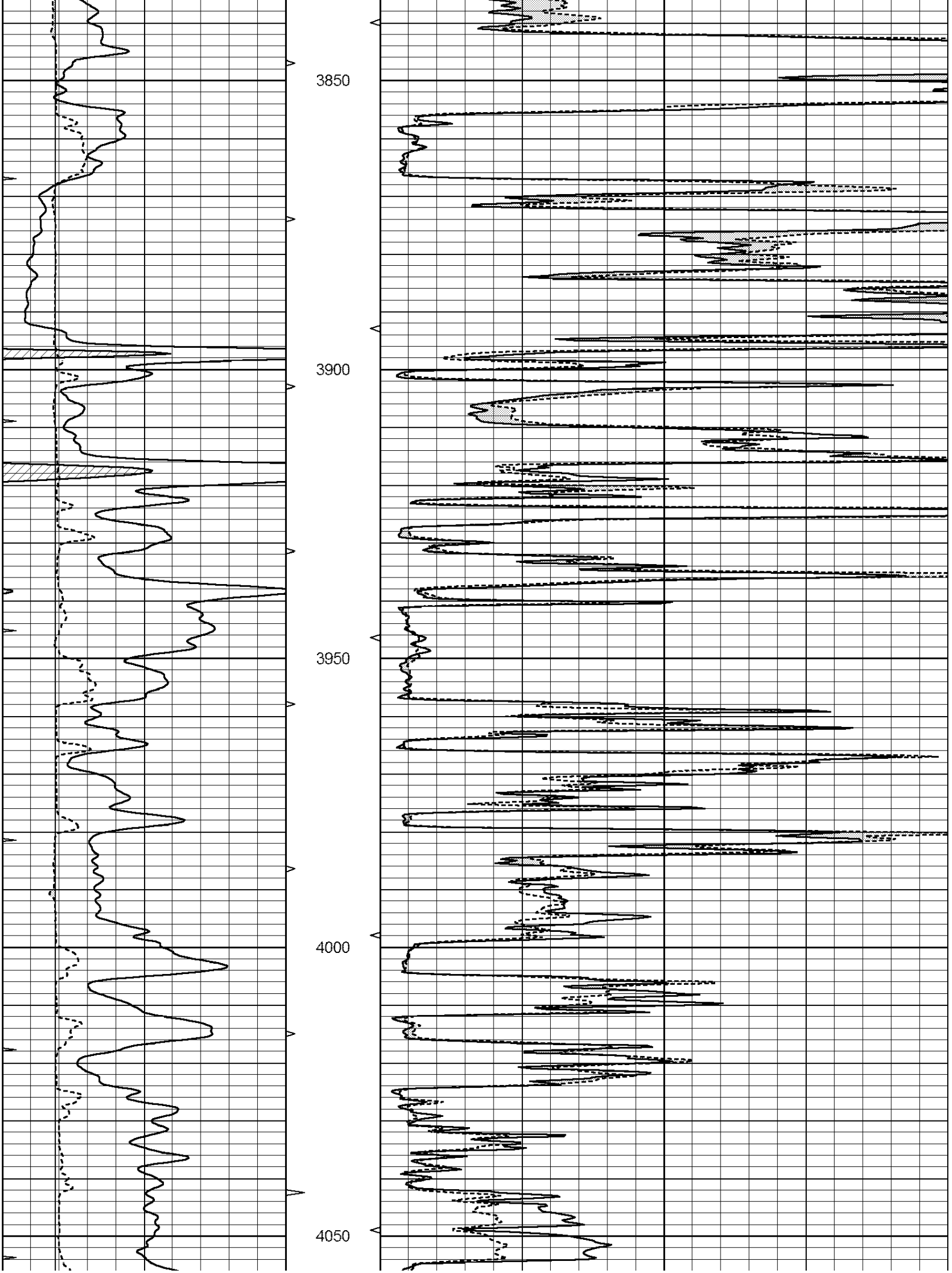
0	GAMMA RAY (GAPI) 150	ABHV	0	MEL1.5 (Ohm-m)	40
6	CALIPER (in) 16	10 (ft3) 0	0	MEL2.0 (Ohm-m)	40
0	MINMK 20	TBHV			
		0 (ft3) 10			

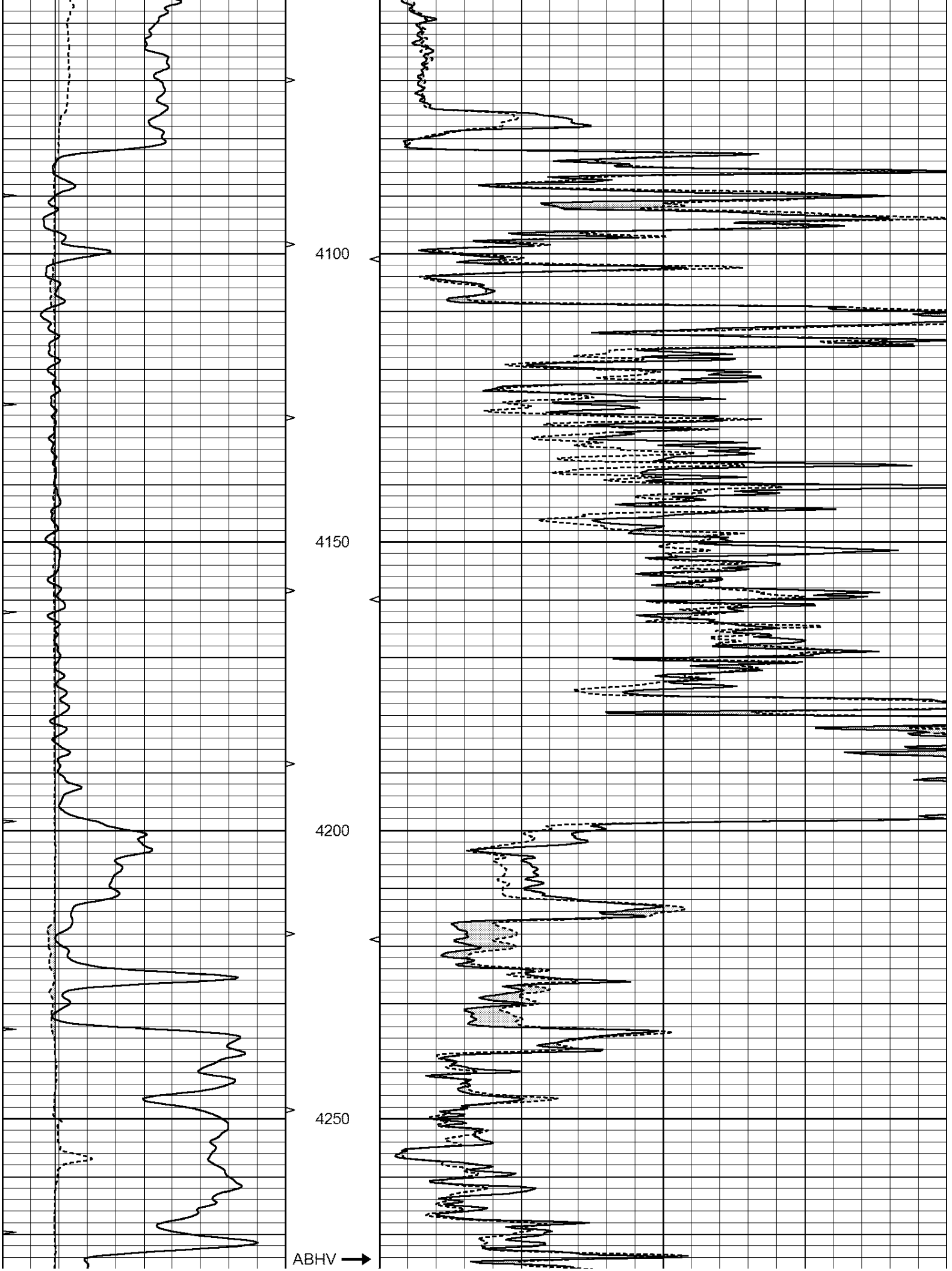


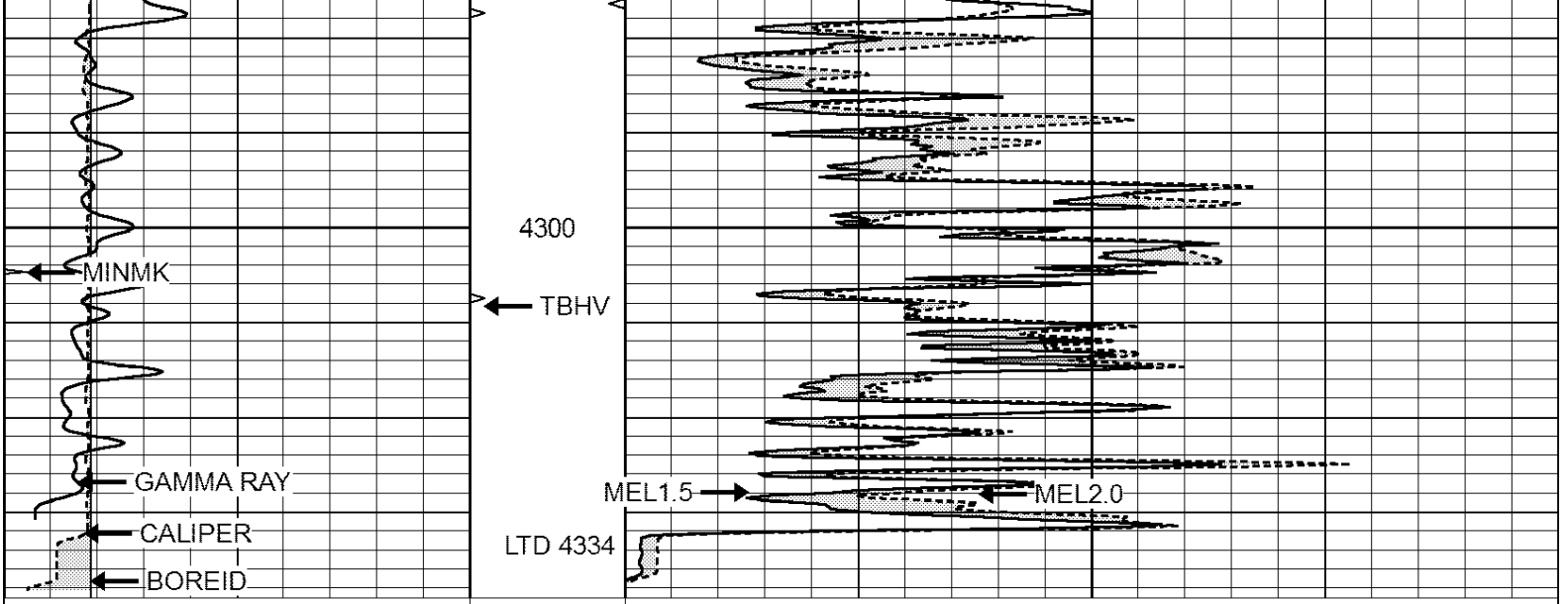

3200
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4100
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4200
4250
ABHV

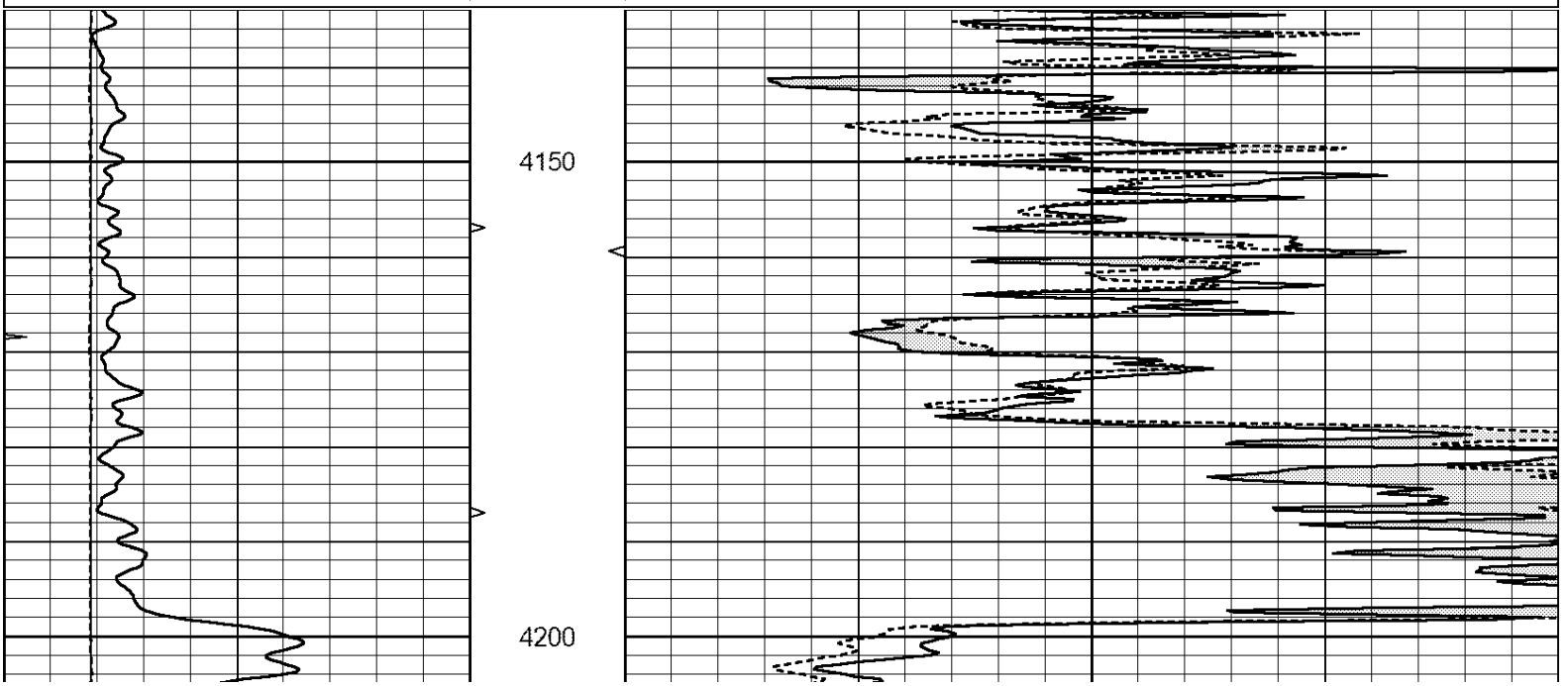


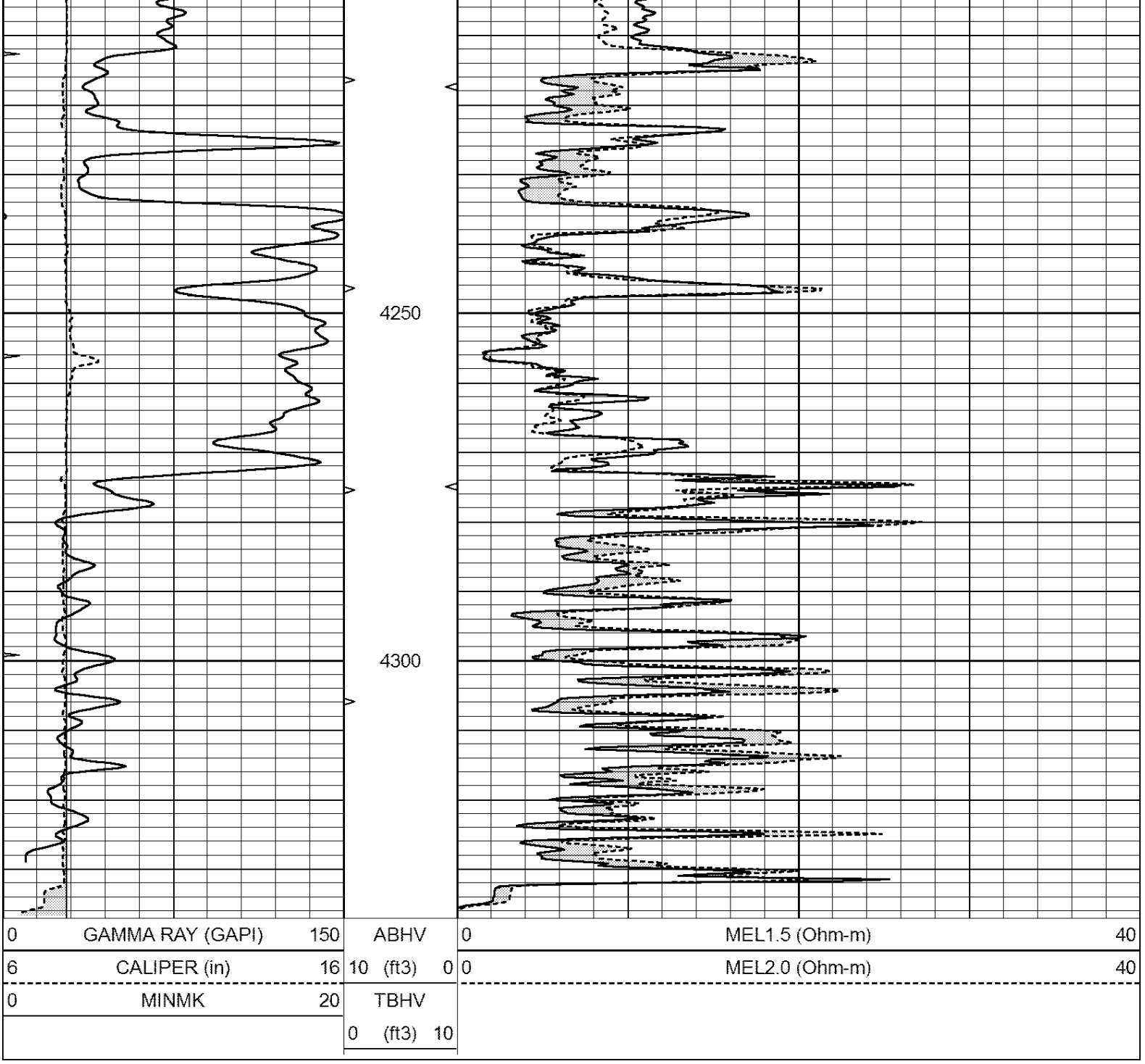
0	GAMMA RAY (GAPI)	150	ABHV	0	MEL1.5 (Ohm-m) 40
6	CALIPER (in)	16	10 (ft3) 0	0	MEL2.0 (Ohm-m) 40
0	MINMK	20	TBHV		
			0 (ft3) 10		

REPEAT SECTION

Database File:	4464ddn.db
Dataset Pathname:	pass5RP.1
Presentation Format:	_micro
Dataset Creation:	Sun Dec 01 04:50:05 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	0	MEL2.0 (Ohm-m) 40
0	MINMK	20	TBHV		
			0 (ft3) 10		





Calibration Report

Database File: 4464ddn.db
Dataset Pathname: pass5RP.1
Dataset Creation: Sun Dec 01 04:50:05 2019 by Calc Open-Cased 090629

MICRO Calibration Report

Serial Number:	Micro1	
Tool Model:	ProbeL	
Performed:	Sat Oct 26 06:47:35 2019	
Caliper Calibration:	Gain=2.030	Offset=6.505
	Low Cal	High Cal
References	9.500	13.000
Readings	0.308	2.032
1.5" Calibration:	Gain=36.134	Offset=0.000

	Low Cal	High Cal
References	0.000	20.000
Readings	0.004	0.832

2" Calibration:	Gain=38.000	Offset=0.200

	Low Cal	High Cal
References	0.000	20.000
Readings	0.022	0.793

Gamma Ray Calibration Report

Serial Number:	GR5	
Tool Model:	OPEN	
Performed:	Thu Oct 24 16:06:54 2019	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.9000	GAPI/cps