

MICRO LOG

Company	IA OPERATING, INC.
Well	KELLER #28-1
Field	CROMB SOUTH
County	ELLIS
State	KANSAS
Location:	APL # : 15-051-26941-00-00 422' FNL & 1607' FEL
SEC 28 TWP 11S RGE 20W	Other Services CDL/CNL DIL
Permanent Datum Log Measured From Drilling Measured From	GROUND LEVEL Elevation 2131 KELLY BUSHING 8' A.G.L. KELLY BUSHING
Elevation	K.B. 2139 D.F. 2137 G.L. 2131
Date	12/01/18
Run Number	TWO
Depth Driller	3850
Depth Logger	3852
Bottom Logged Interval	3850
Top Log Interval	2500
Casing Driller	8 5/8" @ 221
Casing Logger	221
Bit Size	7 7/8"
Type Fluid in Hole	CHEMICAL MUD
Density / Viscosity	9.0/45
pH / Fluid Loss	10.0/8.8
Source of Sample	FLOWLINE
Rm @ Meas. Temp	1.1@66
Rmt @ Meas. Temp	.83@66
Rmc @ Meas. Temp	1.32@66
Source of Rmt / Rmc	MEASURED
Rm @ BHT	.63@115
Time Circulation Stopped	2 HOURS
Time Logger on Bottom	///
Maximum Recorded Temperature	115F
Equipment Number	1523
Location	HAYS, KANSAS
Recorded By	GUS PFANENSTIEL
Witnessed By	JEFF LAWLER

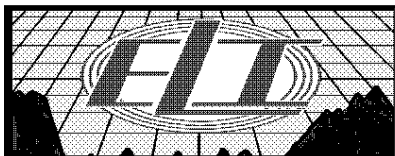
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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on 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

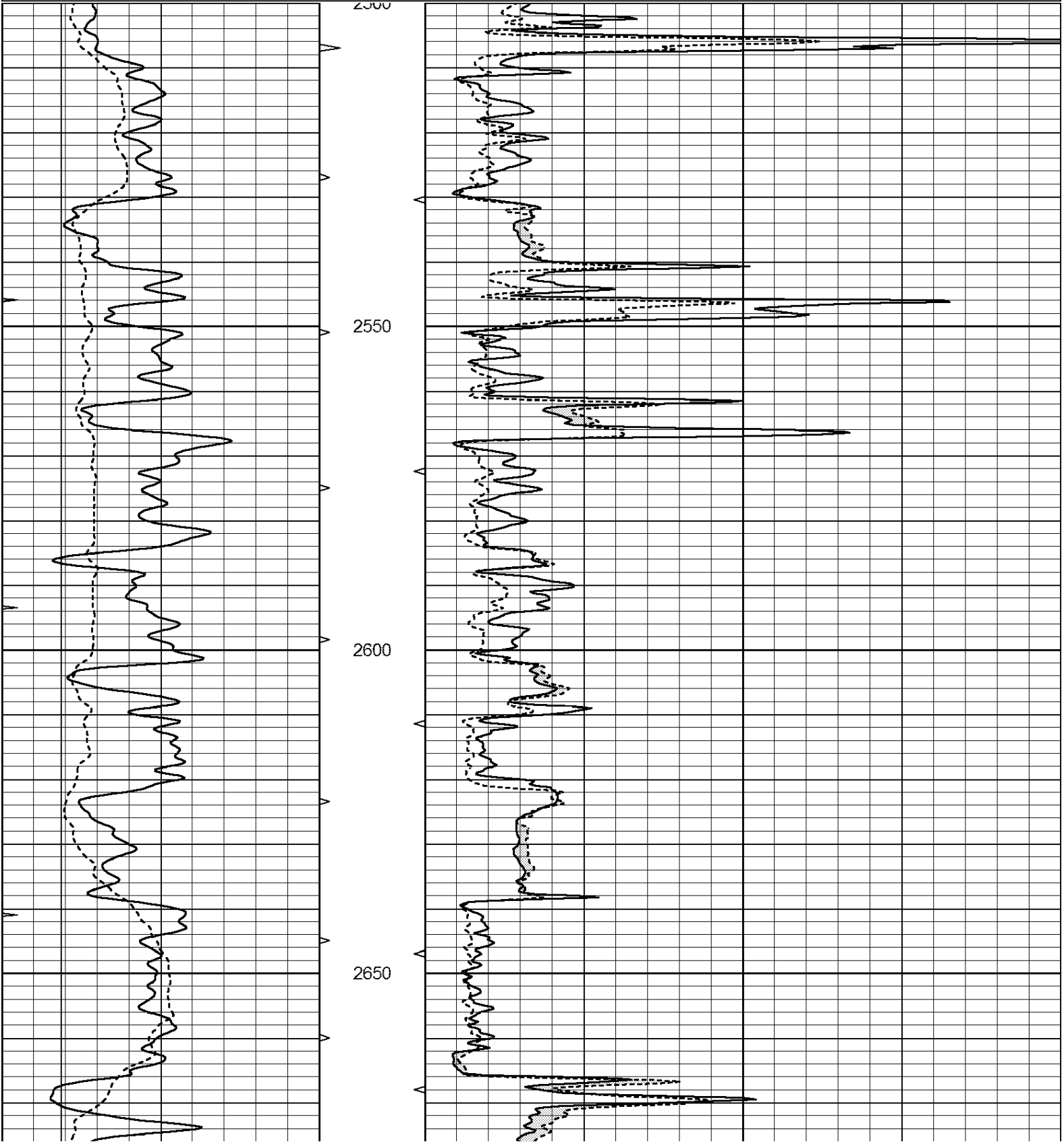
DIRECTIONS
NORTH OF ELLIS TO WILES RD. 1/4 WEST,
SOUTH INTO.

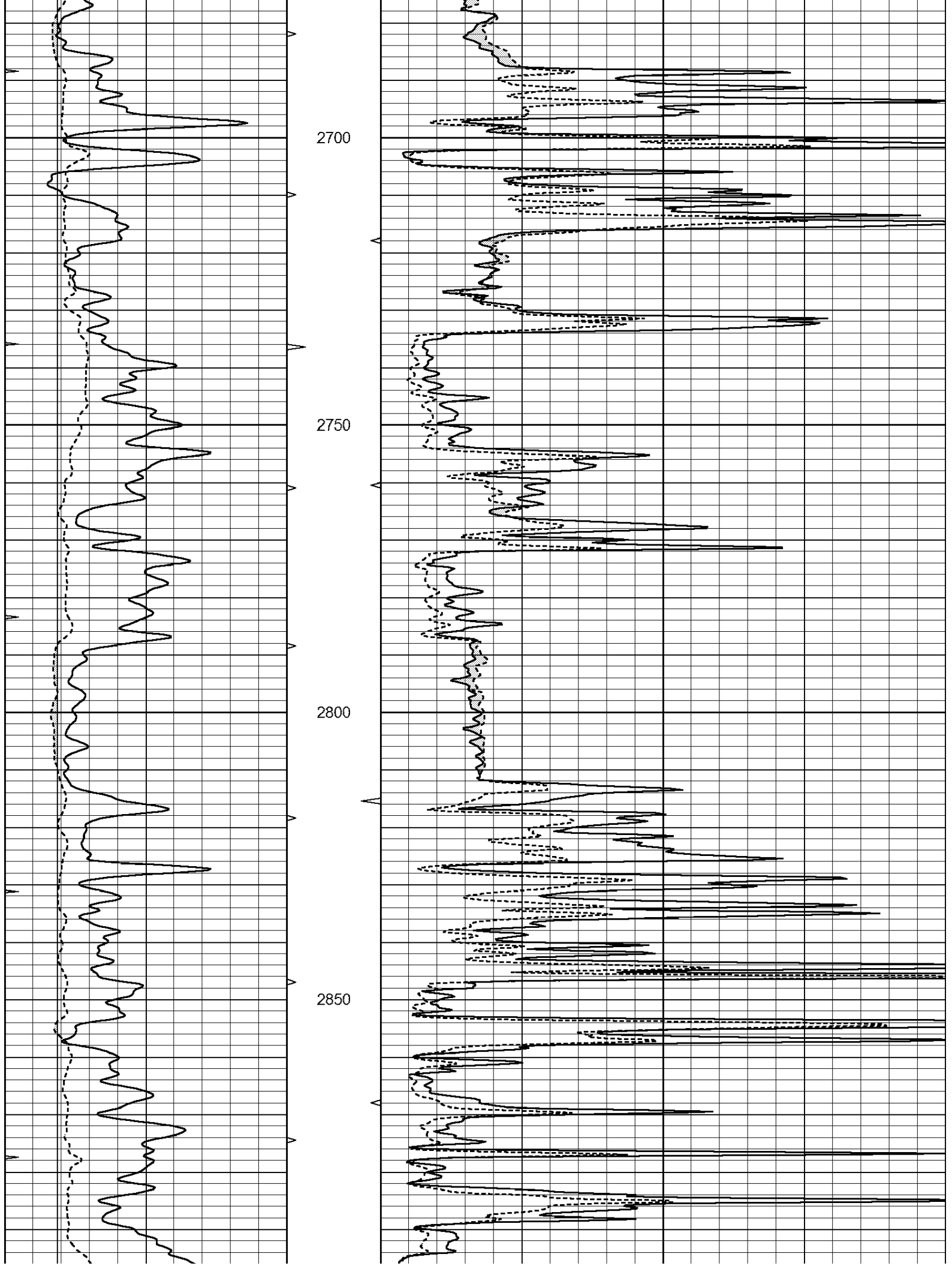


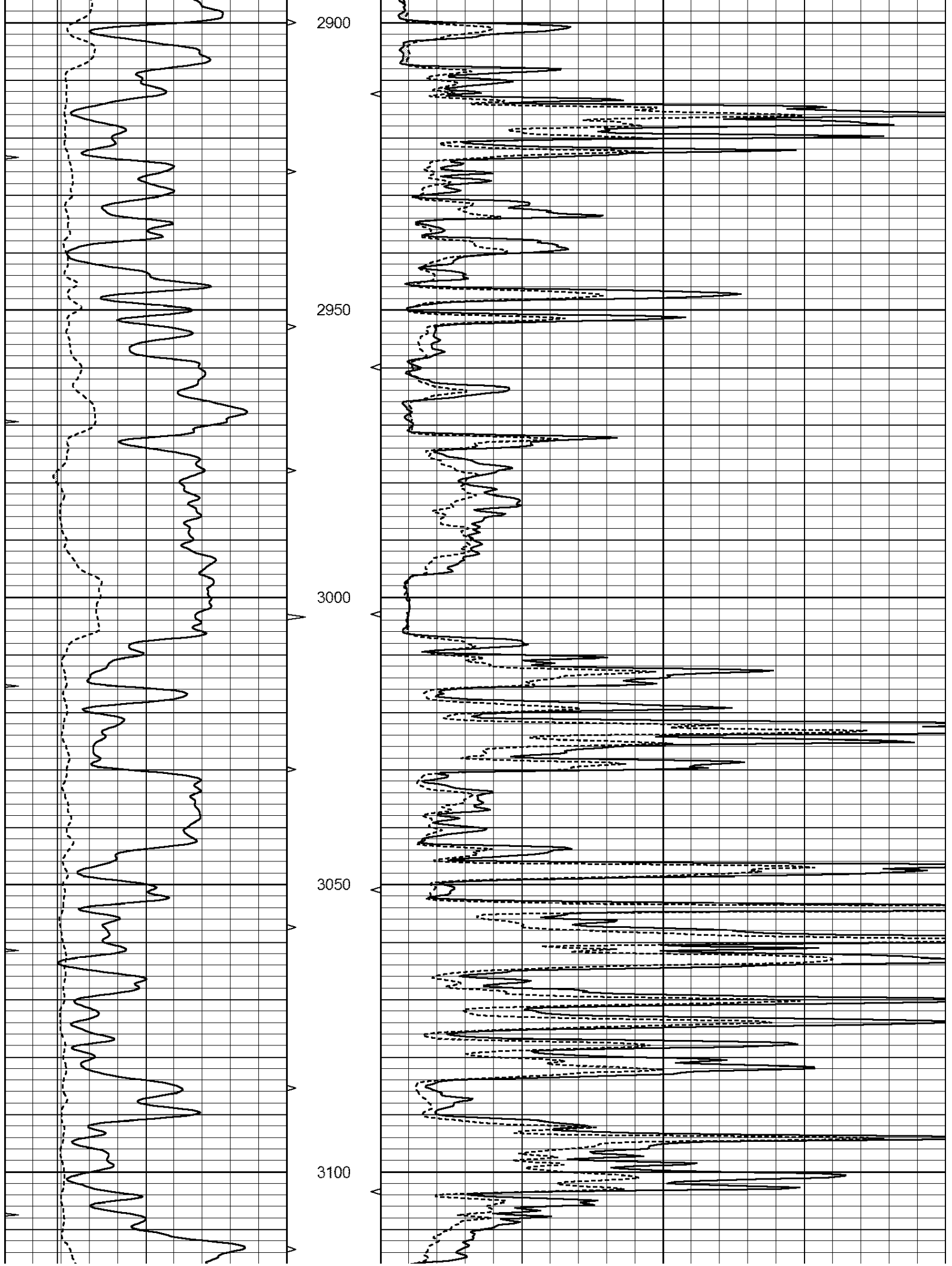
MAIN PASS

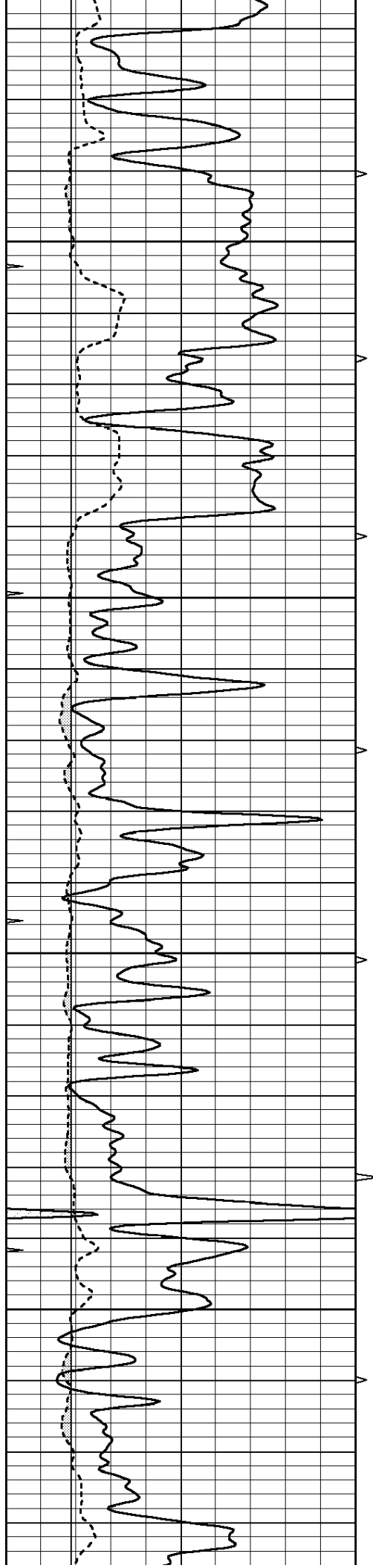
Database File: 3163pe.db
Dataset Pathname: pass5MAIN
Presentation Format: _micro
Dataset Creation: Sat Dec 01 07:24:10 2018
Charted by: Depth in Feet scaled 1:240

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







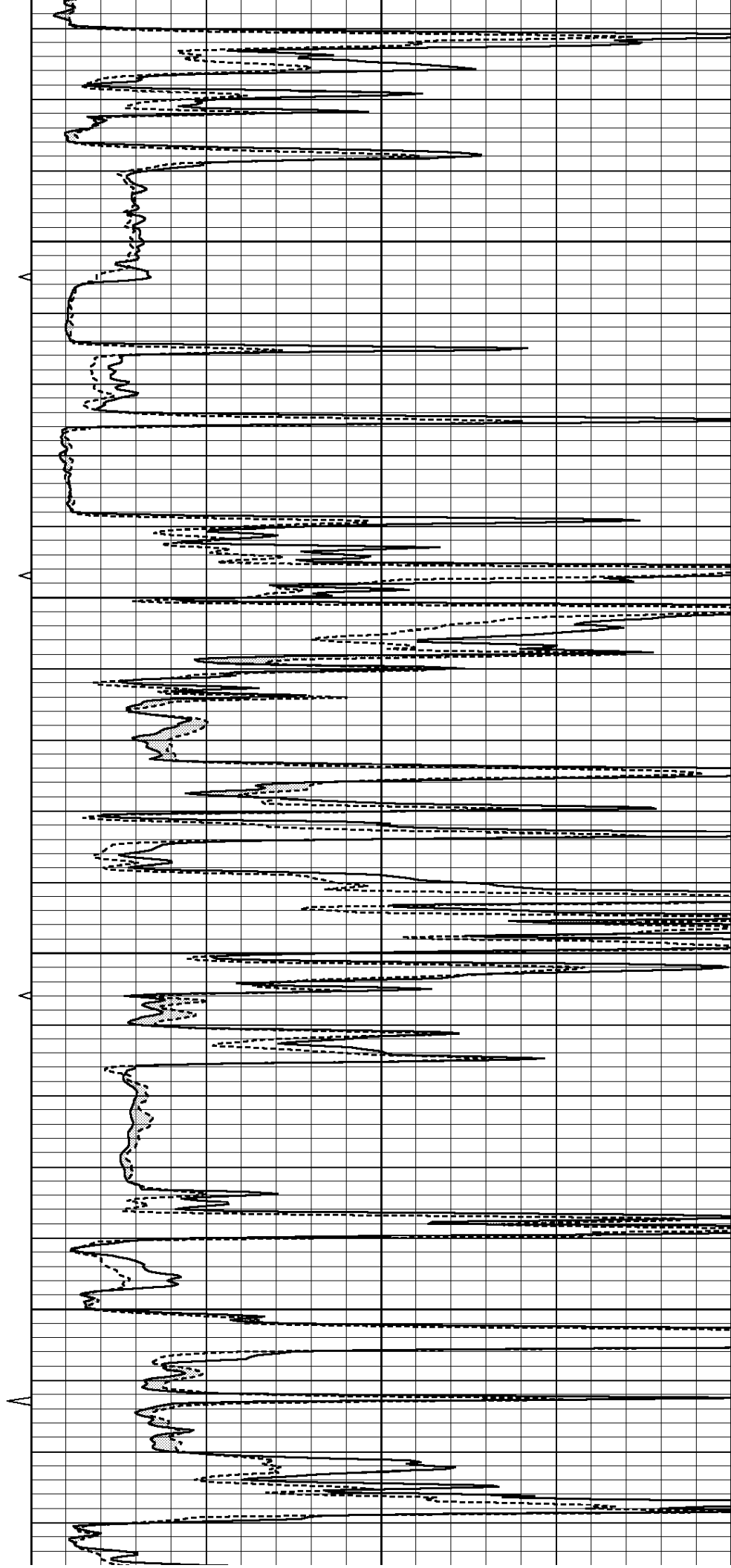


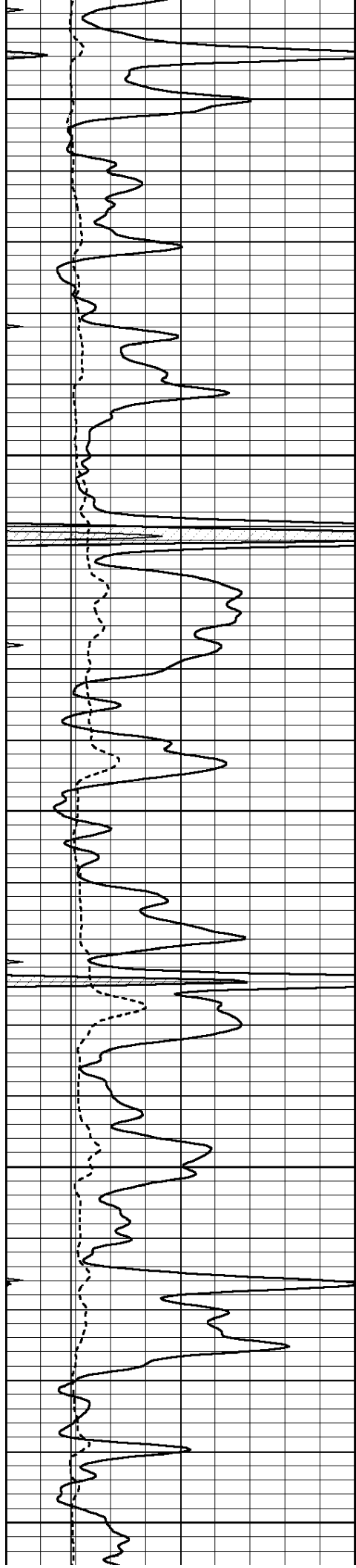
3150

3200

3250

3300





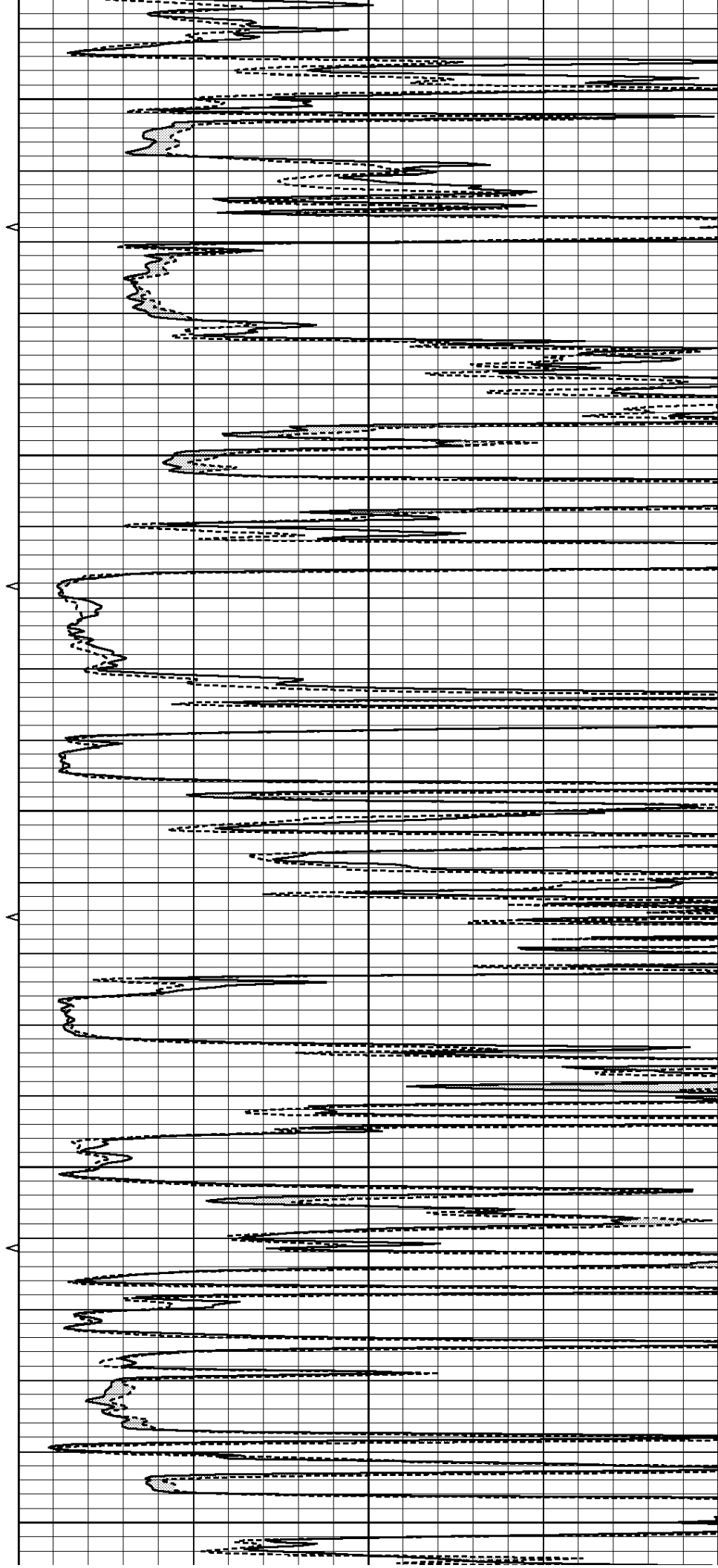
3350

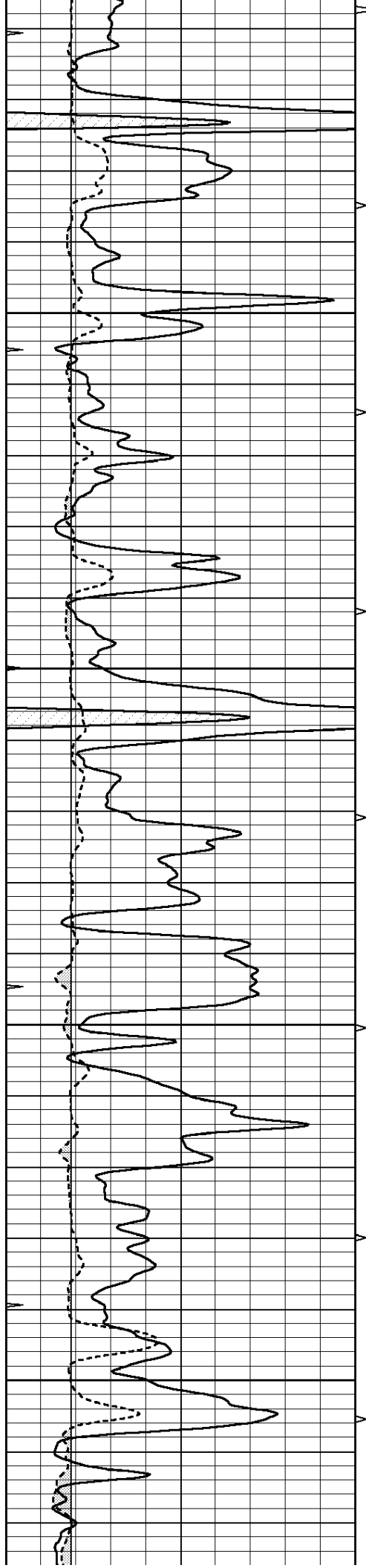
3400

3450

3500

3550



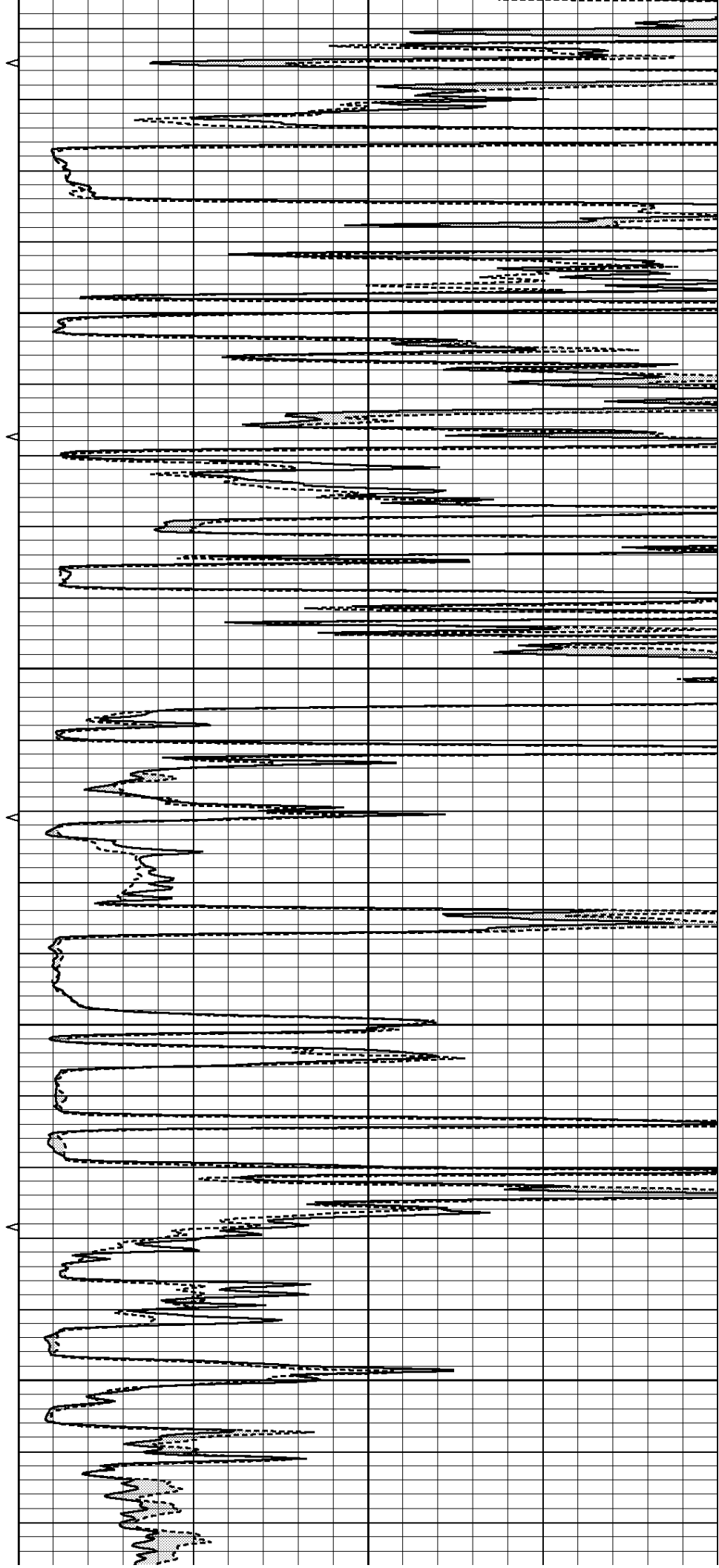


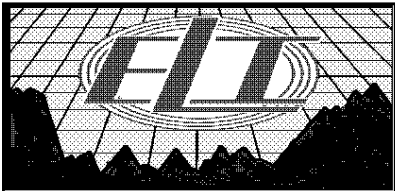
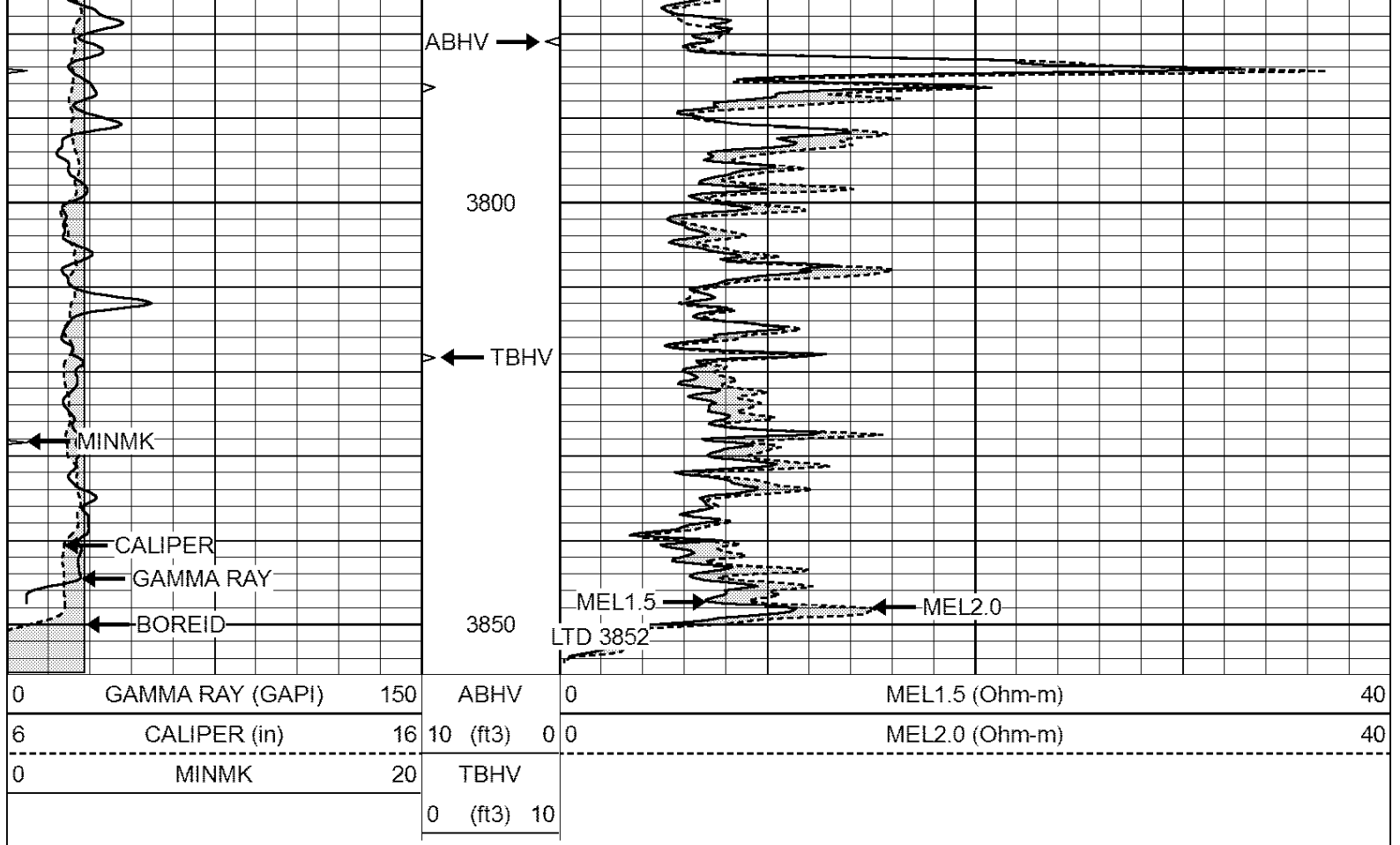
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3650

3700

3750

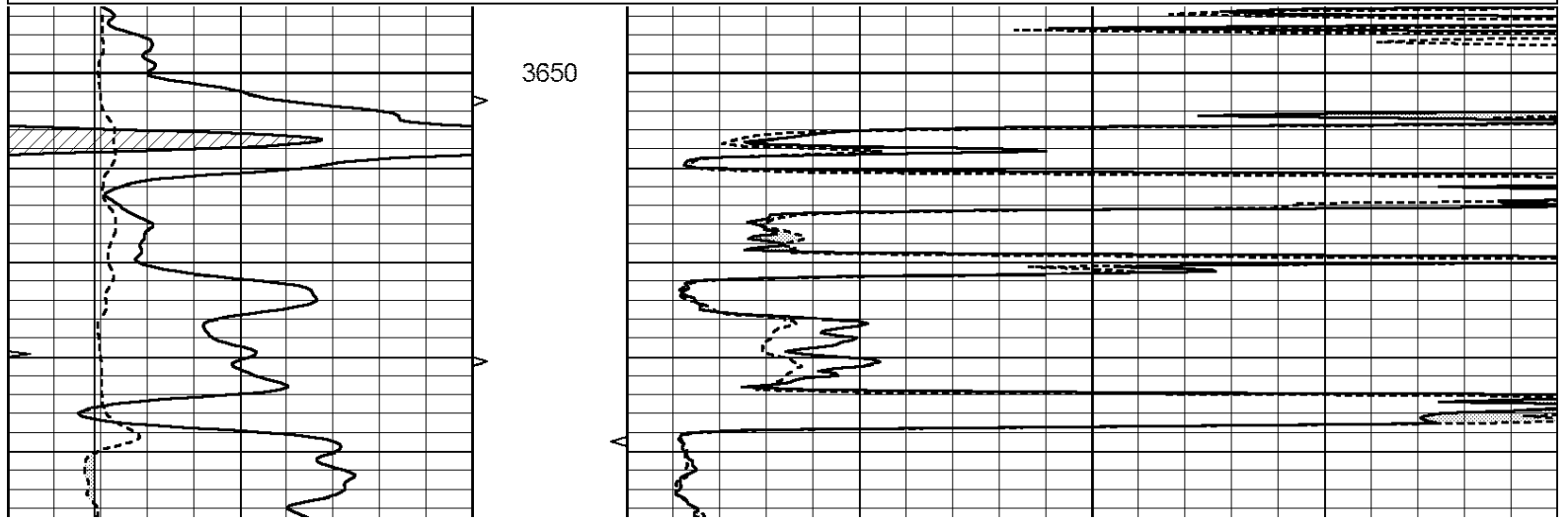


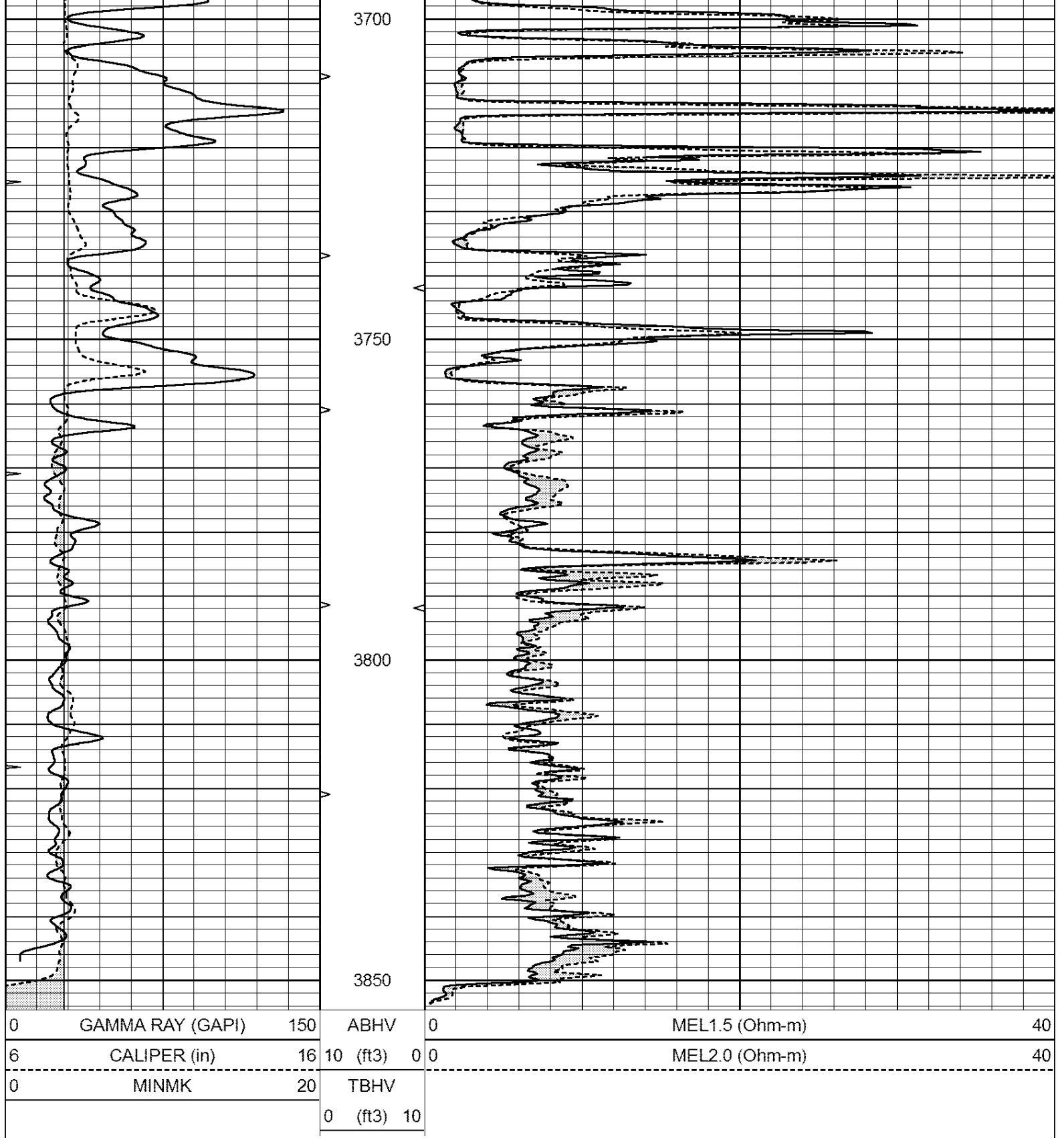


REPEAT SECTION

Database File: 3163pe.db
 Dataset Pathname: pass4.1
 Presentation Format: _micro
 Dataset Creation: Sat Dec 01 07:08:47 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		





Calibration Report

Database File: 3163pe.db
Dataset Pathname: pass4.1
Dataset Creation: Sat Dec 01 07:08:47 2018 by Calc Open-Cased 090629

MICRO Calibration Report

Serial Number:	MICRO3
Tool Model:	PROBE
Performed:	Fri Nov 09 06:01:34 2018

Caliper Calibration:	Gain=5.761	Offset=-24.102
References	Low Cal 7.000	High Cal 14.000
Readings	5.339	6.500
1.5" Calibration:	Gain=118.000	Offset=0.400
References	Low Cal 0.000	High Cal 20.000
Readings	0.004	0.228
2" Calibration:	Gain=110.553	Offset=0.220
References	Low Cal 0.000	High Cal 20.000
Readings	0.005	0.175
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:	0.5500	GAPI/cps