

MICRO LOG

Company	MAI OIL OPERATIONS	Company	MAI OIL OPERATIONS
Well	CHRISTIANSEN #1	Well	CHRISTIANSEN #1
Field	MUELLER	Field	MUELLER
County	STAFFORD	County	STAFFORD
State	KANSAS	State	KANSAS
Location:	API # : 15-185-24032-00-00	Other Services	CDL/CNL/DIL
	725 FNL & 503 FWL		
	SEC 18 TWP 21S RGE 12W		
Permanent Datum	GROUND LEVEL	Elevation	1859
Log Measured From	KELLY BUSHING 8' A.G.L.		
Drilling Measured From	KELLY BUSHING		
Date	10/02/18		
Run Number	TWO		
Depth Driller	3675		
Depth Logger	3677		
Bottom Logged Interval	3676		
Top Log Interval	2900		
Casing Driller	8 5/8 @ 655		
Casing Logger	655		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 7400 PPM	
Density / Viscosity	9.1/50		
pH / Fluid Loss	10.5/9.6		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.50 @ 66		
Rmt @ Meas. Temp	.36 @ 66		
Rmc @ Meas. Temp	.60 @ 66		
Source of Rmt / Rmc	MEASURED		
Rm @ BHT	.29 @ 113		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	///		
Maximum Recorded Temperature	113F		
Equipment Number	4010		
Location	HAYS, KANSAS		
Recorded By	GUS PFANENSTIEL		
Witnessed By	WYATT URBAN		

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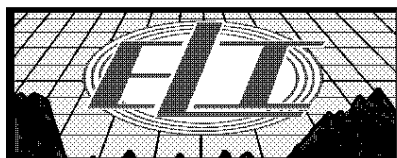
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

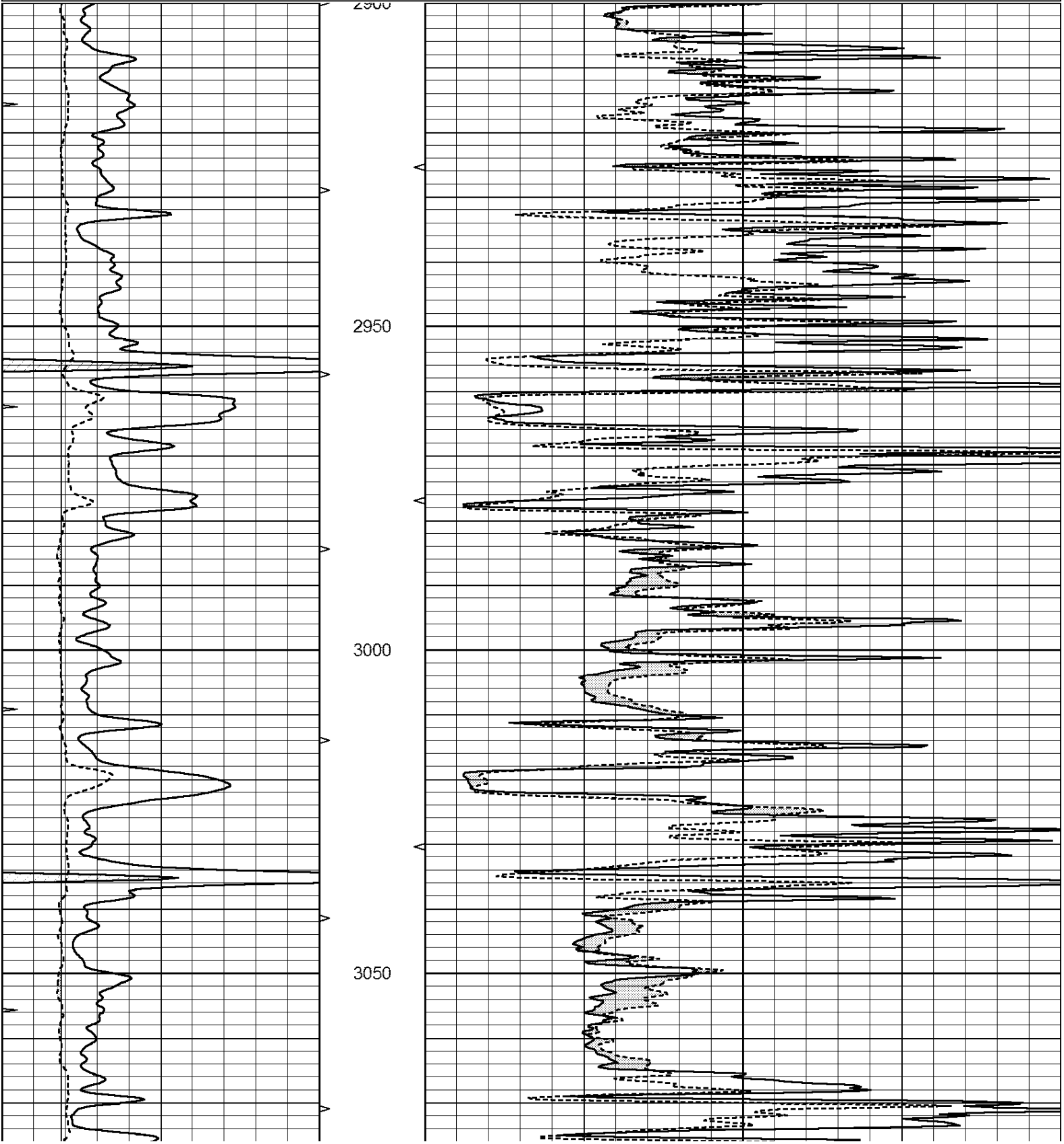
DARTMOUTH BLACK TOP SOUTH THROUGH STAFFORD CO LINE 2 MILES,
1 WEST, SOUTH EAST INTO.

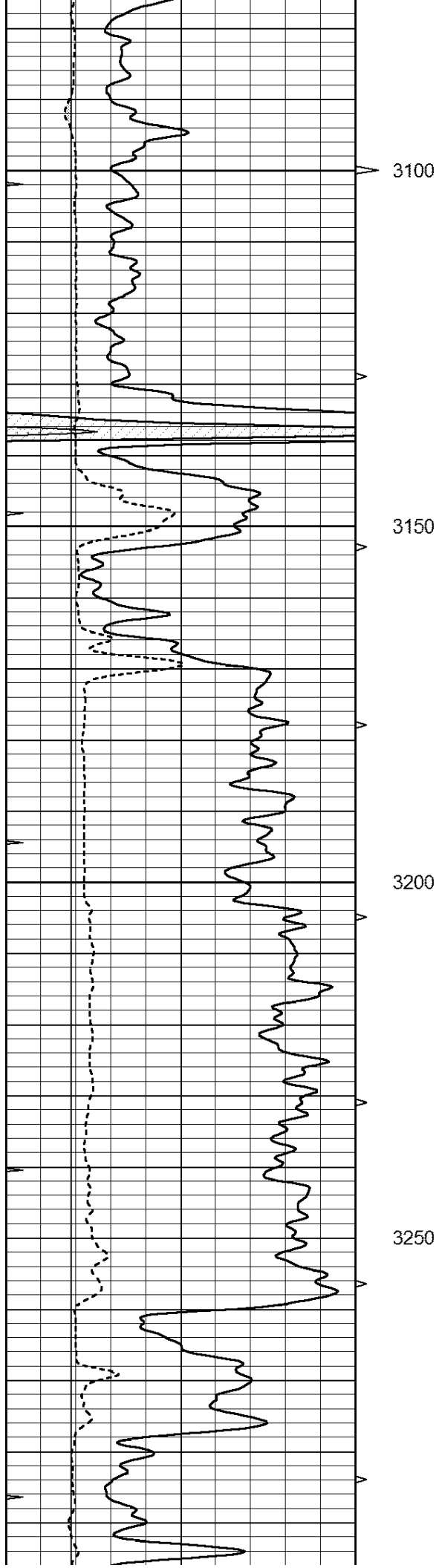
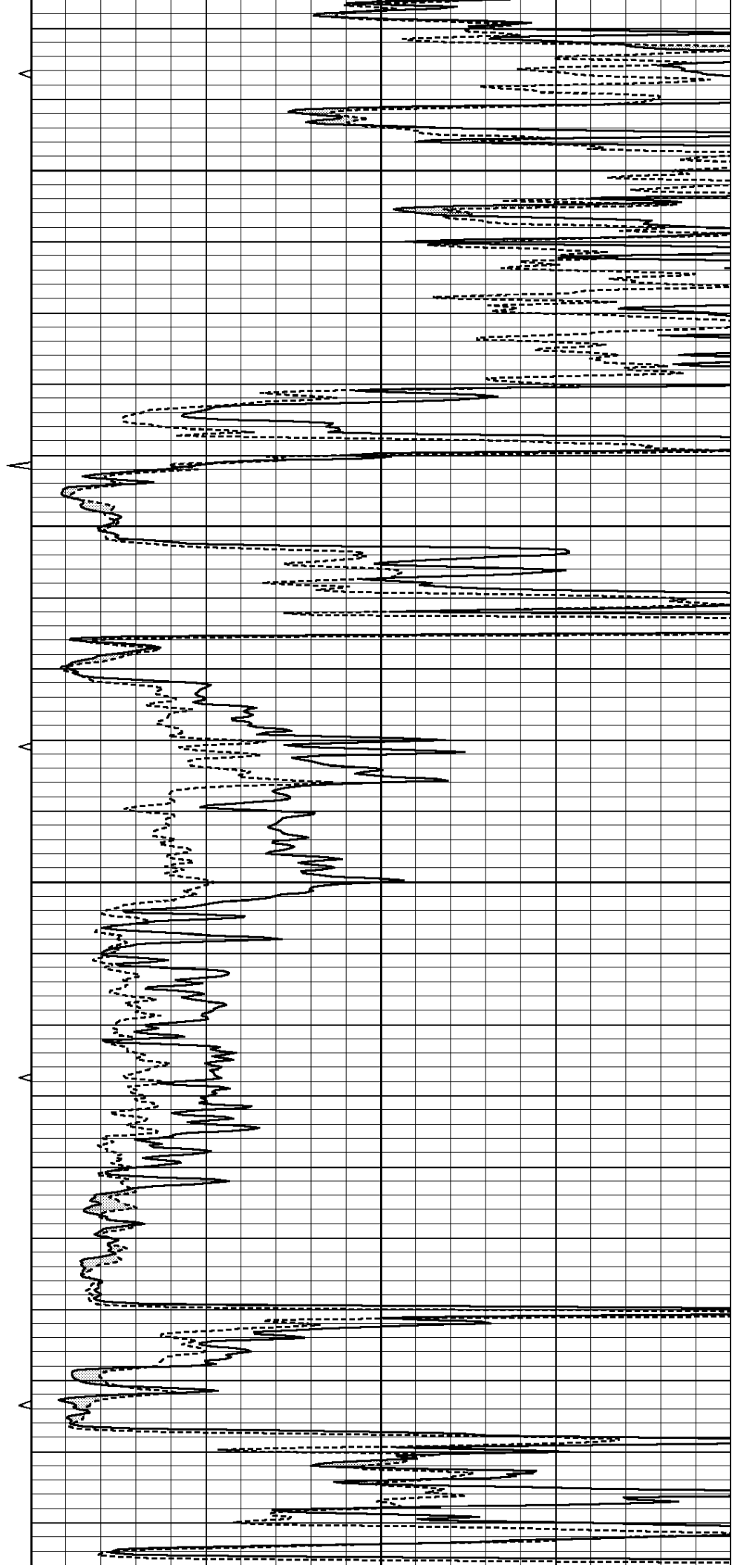


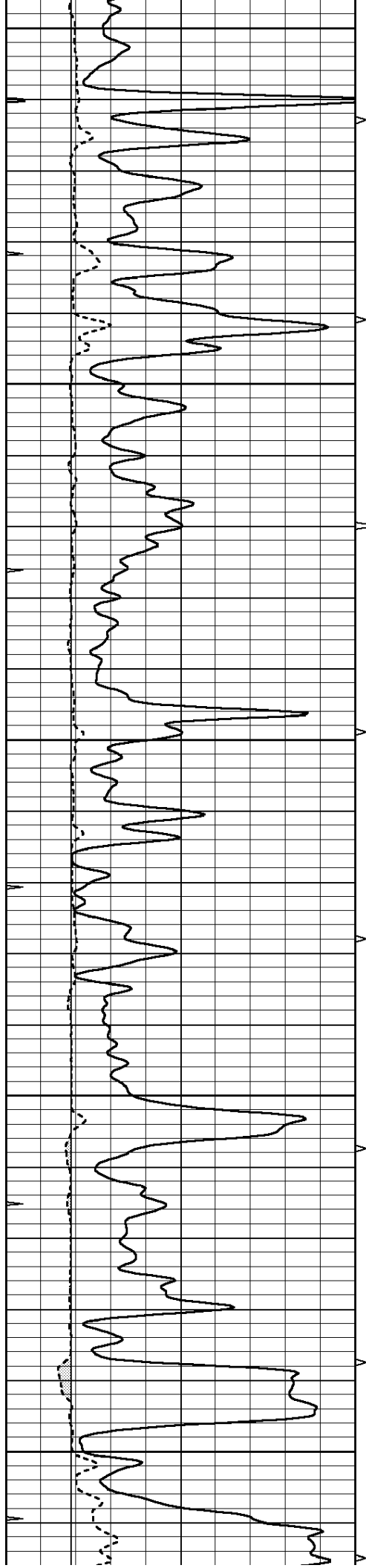
MAIN PASS

Database File: 2919ddn.db
Dataset Pathname: pass5.1
Presentation Format: _micro
Dataset Creation: Tue Oct 02 09:31:42 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		







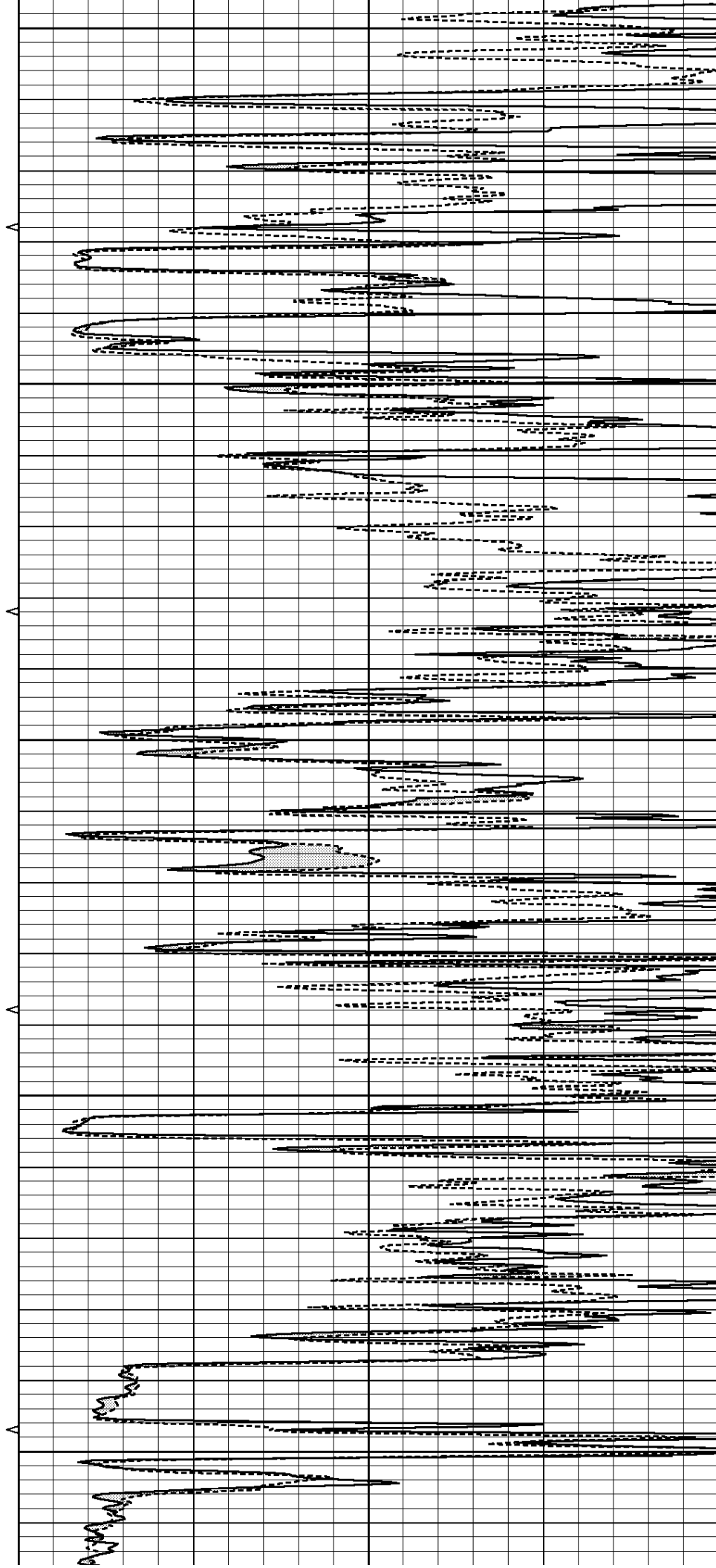
3300

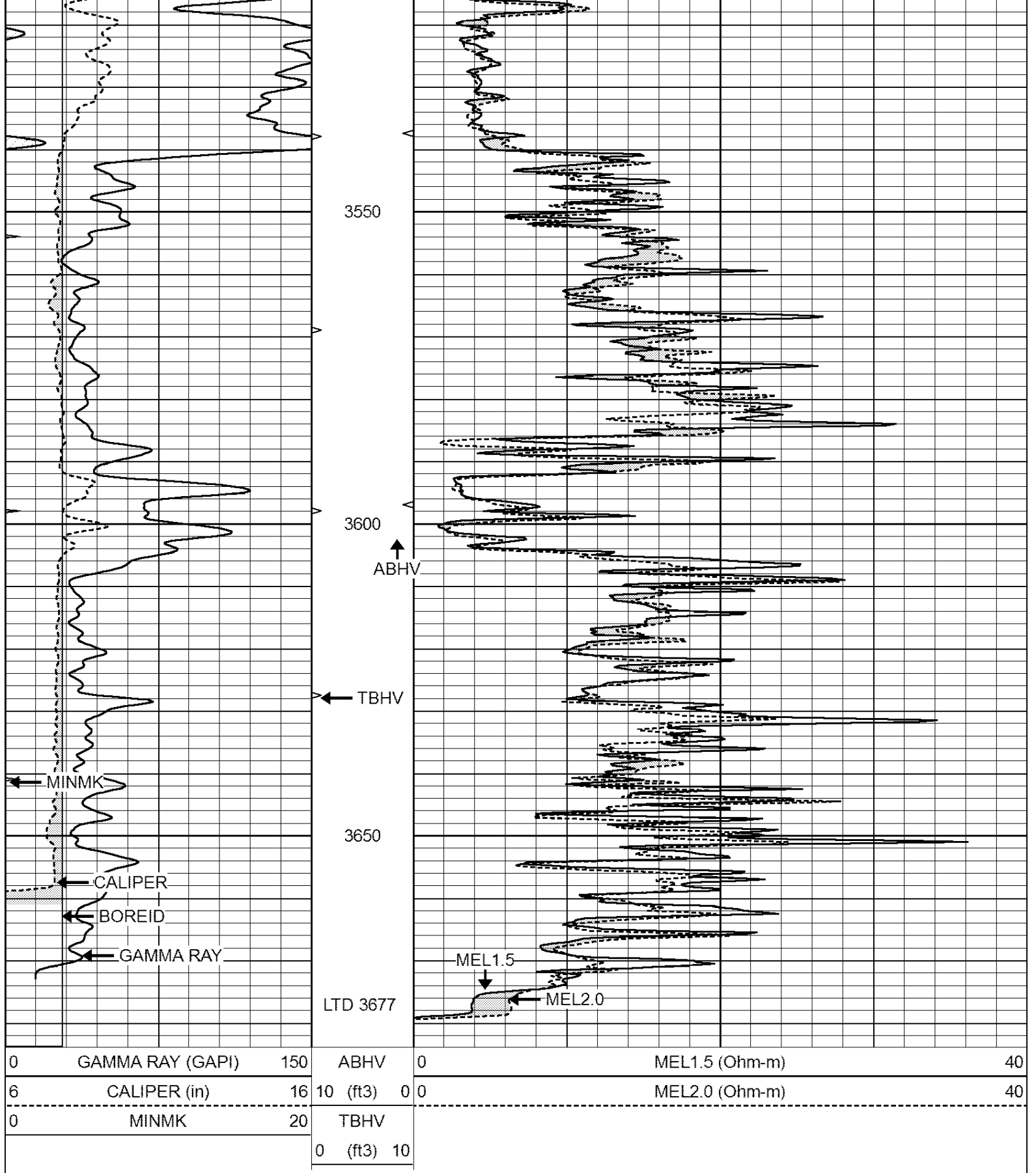
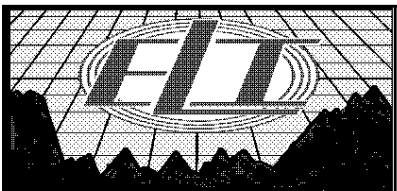
3350

3400

3450

3500

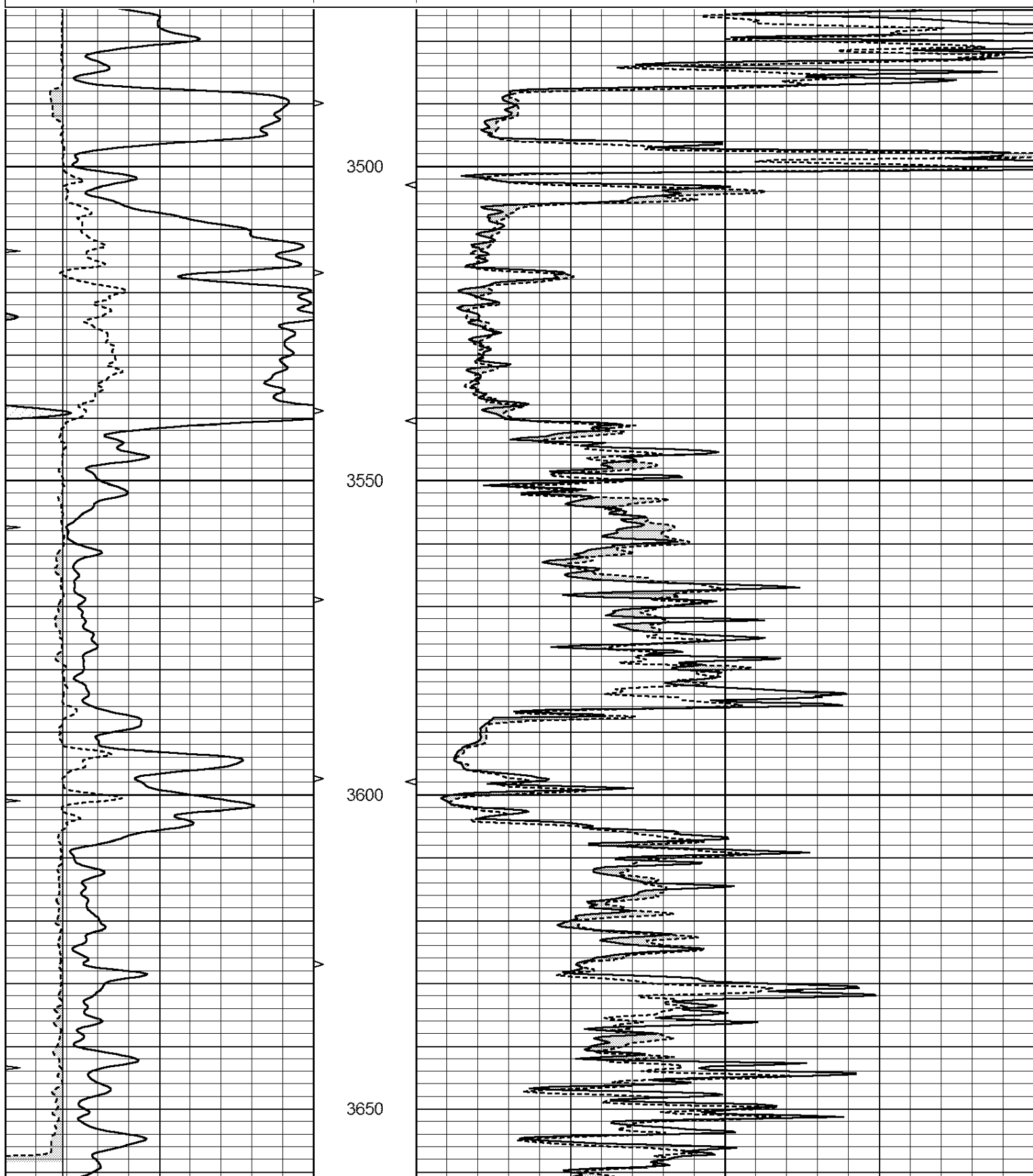


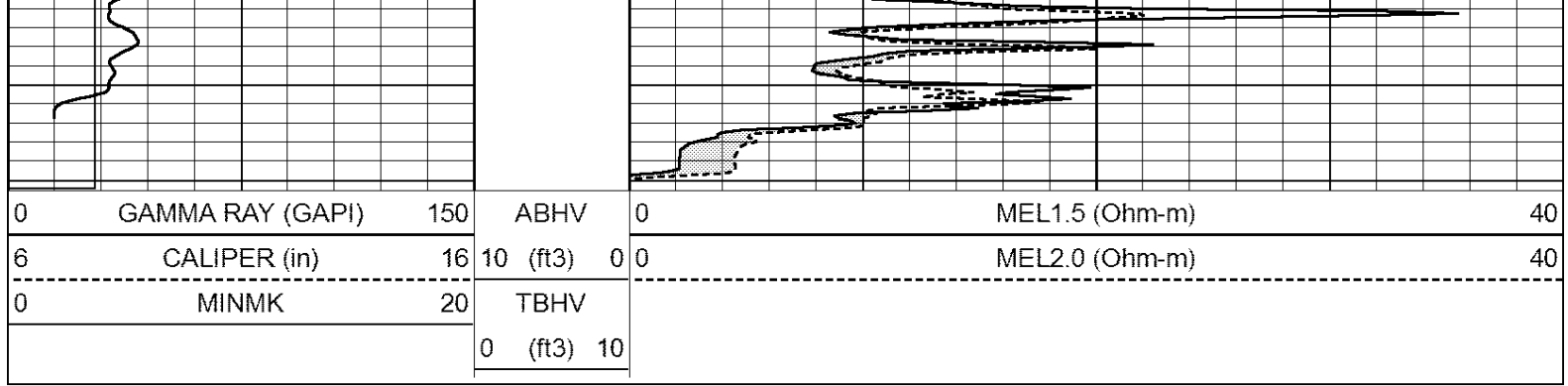


REPEAT SECTION

Dataset Pathname: pass4.1
Presentation Format: _micro
Dataset Creation: Tue Oct 02 09:38:15 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		





Calibration Report			
Database File:	2919ddn.db		
Dataset Pathname:	pass4.1		
Dataset Creation:	Tue Oct 02 09:38:15 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=42.717	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	