

MICRO LOG

Company	MAI OIL OPERATIONS, INC.	Company	MAI OIL OPERATIONS, INC.
Well	RUGAN #1	Well	RUGAN #1
Field	RUGAN	Field	RUGAN
County	STAFFORD	County	STAFFORD
State	KANSAS	State	KANSAS
Location:	API # : 15-185-23985-00-00	Other Services	CDL/CNL/DIL SONIC
Permanent Datum	745 FNL & 1734' FWL	Elevation	
Log Measured From	SEC 2 TWP 21S RGE 11W	K.B. 1770'	
Drilling Measured From	GROUND LEVEL	D.F. 1768	
	KELLY BUSHING 8' A.G.L.	G.L. 1762	
Date	10/19/17		
Run Number	TWO		
Depth Driller	3470		
Depth Logger	3471		
Bottom Logged Interval	3450		
Top Log Interval	2700		
Casing Driller	8 5/8" @ 474		
Casing Logger	474		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.6/52		
pH / Fluid Loss	10.0/8.0		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	1.1@58		
Rmt @ Meas. Temp	.83@58		
Rmc @ Meas. Temp	1.32@58		
Source of Rmt / Rmc	MEASURED		
Rm @ BHT	.57@111		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	///		
Maximum Recorded Temperature	111F		
Equipment Number	4010		
Location	HAYS, KANSAS		
Recorded By	GUS PFANENSTIEL		
Witnessed By	JIM MUSGROVE		

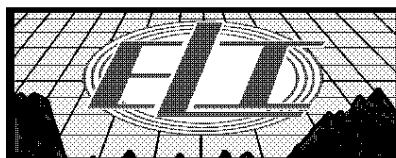
<<< Fold Here >>>

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

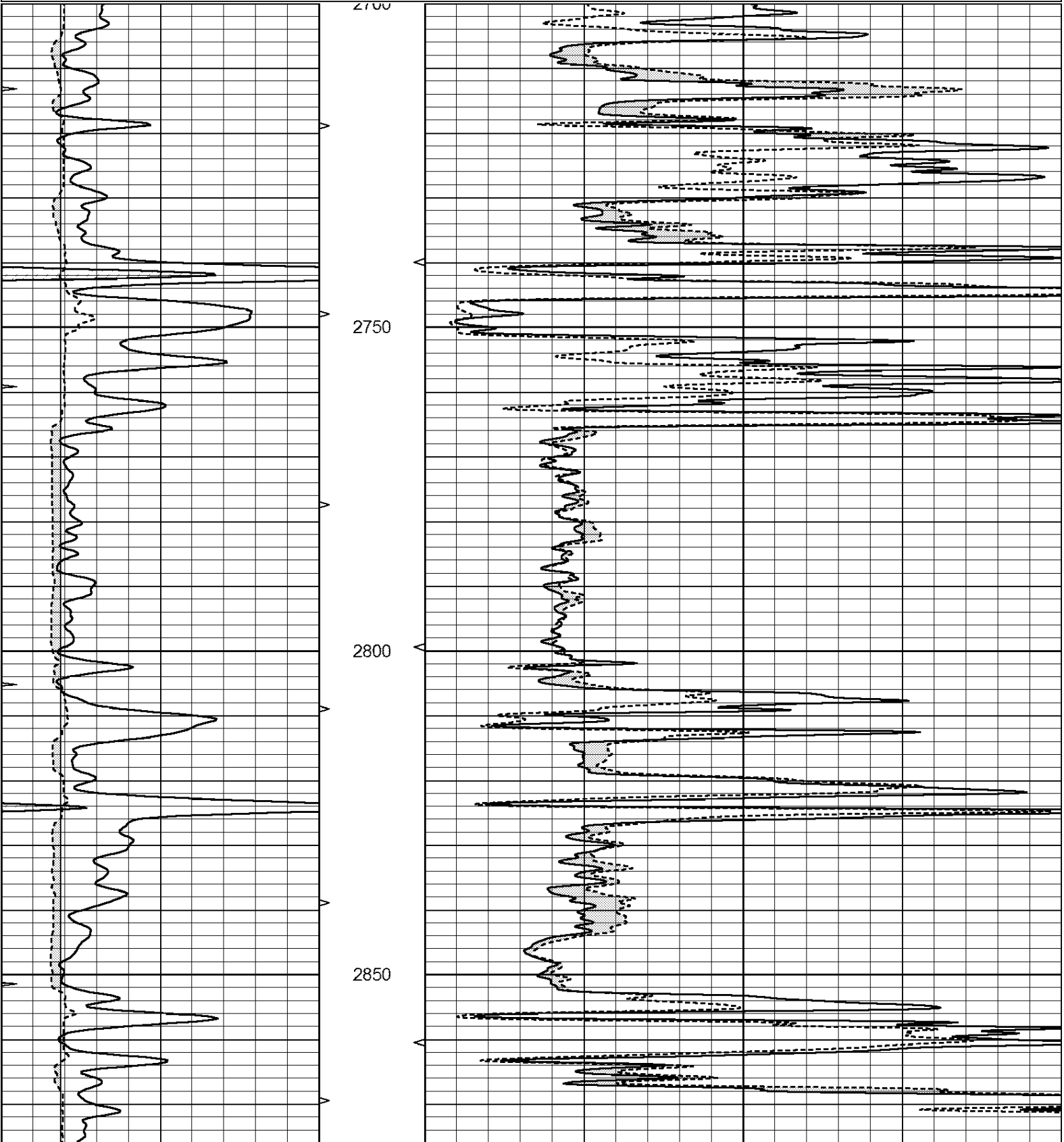
DIRECTIONS
ELLINWOOD SOUTH ON SE 100 RD. 3 MILES
TO 50 RD, EAST 5 MILES TO 150 AVE.
SOUTH 2 MILES.

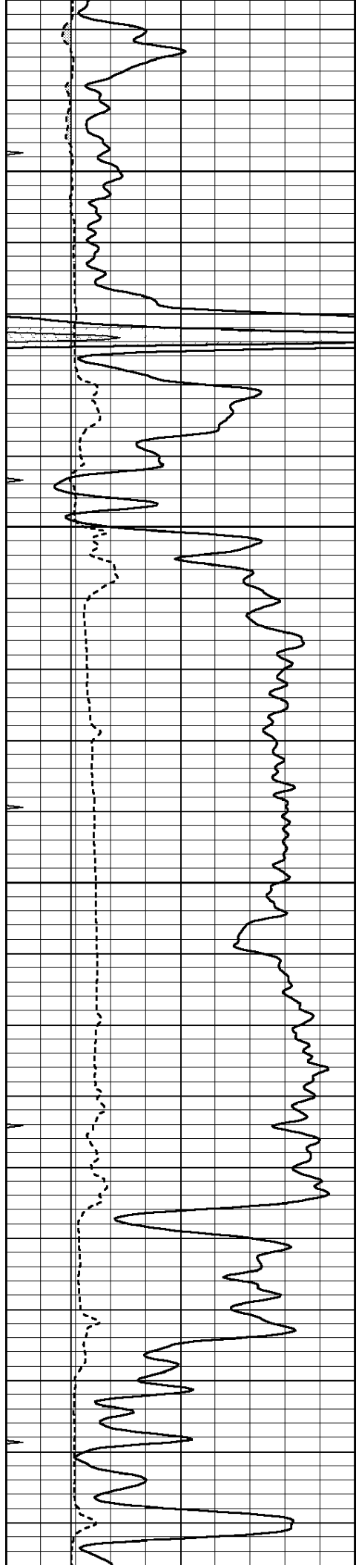


MAIN PASS

Database File: 2103ddn.db
Dataset Pathname: pass5
Presentation Format: _micro
Dataset Creation: Thu Oct 19 07:42:19 2017 by Log 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		



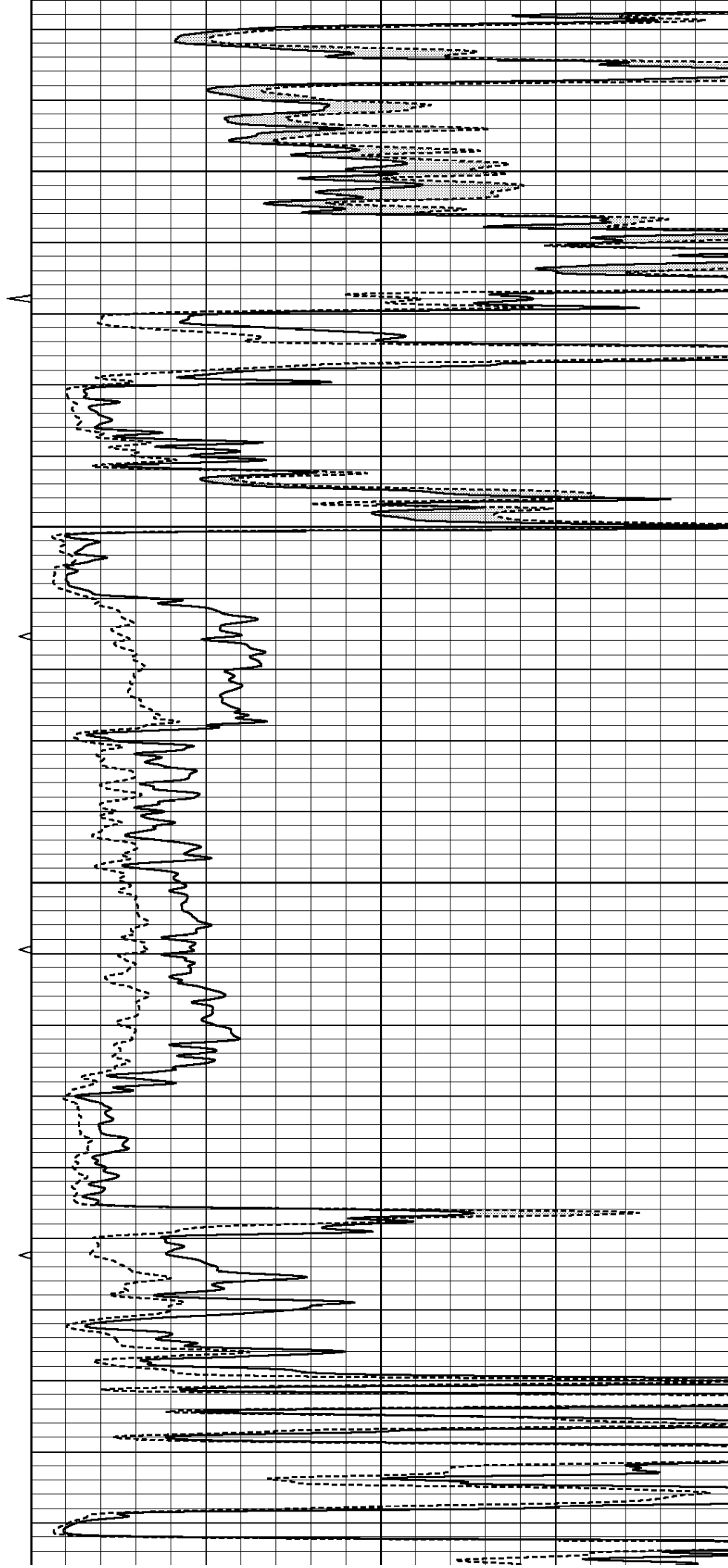


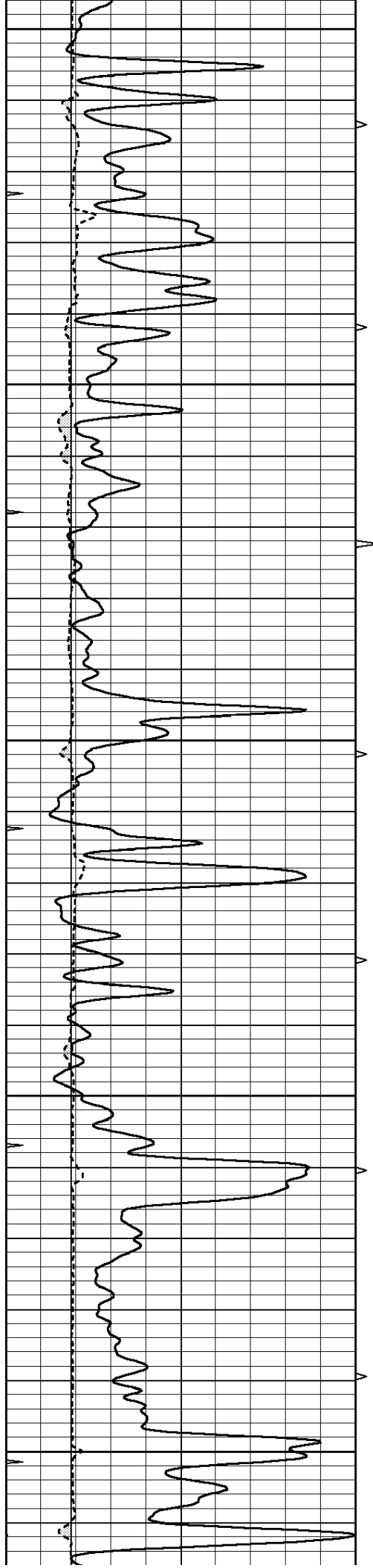
2900

2950

3000

3050





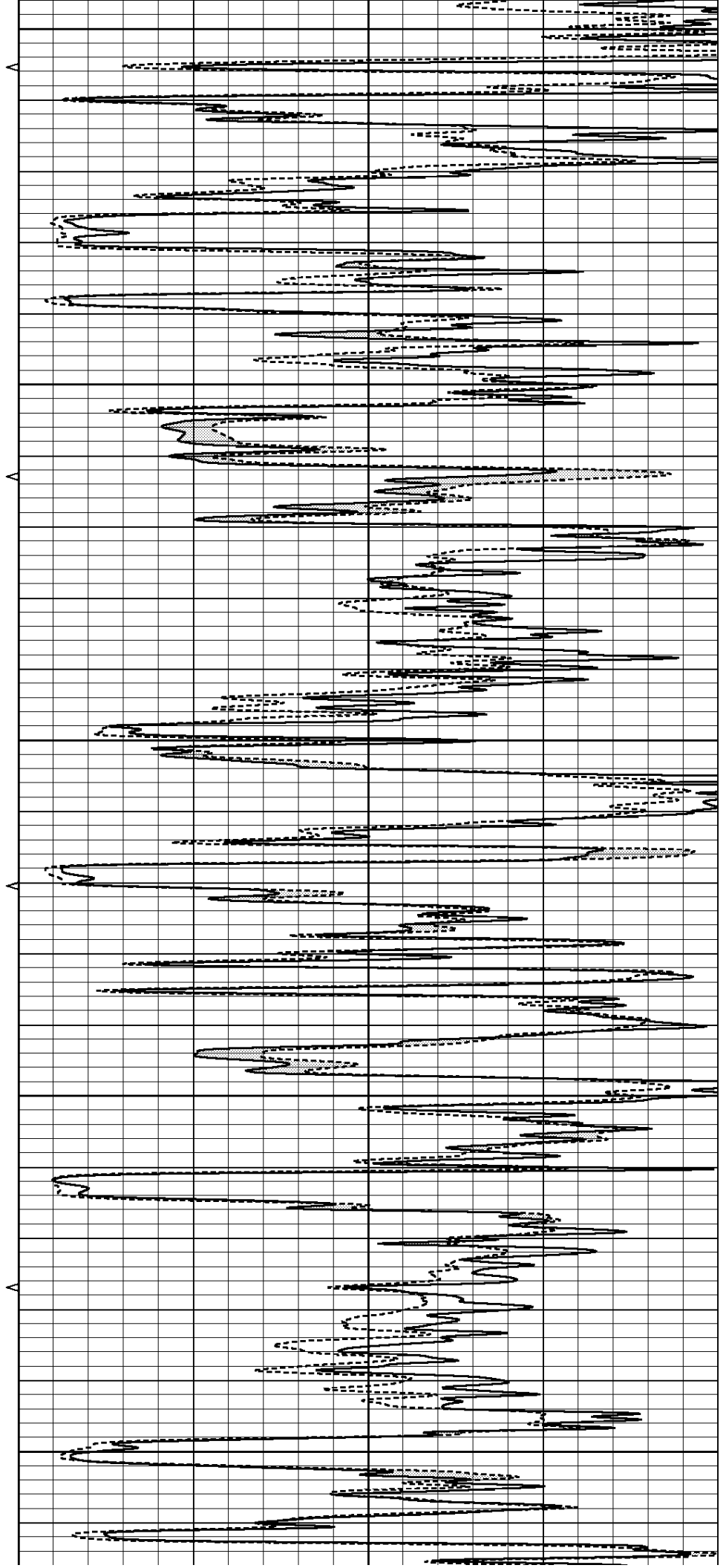
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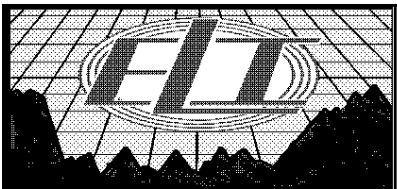
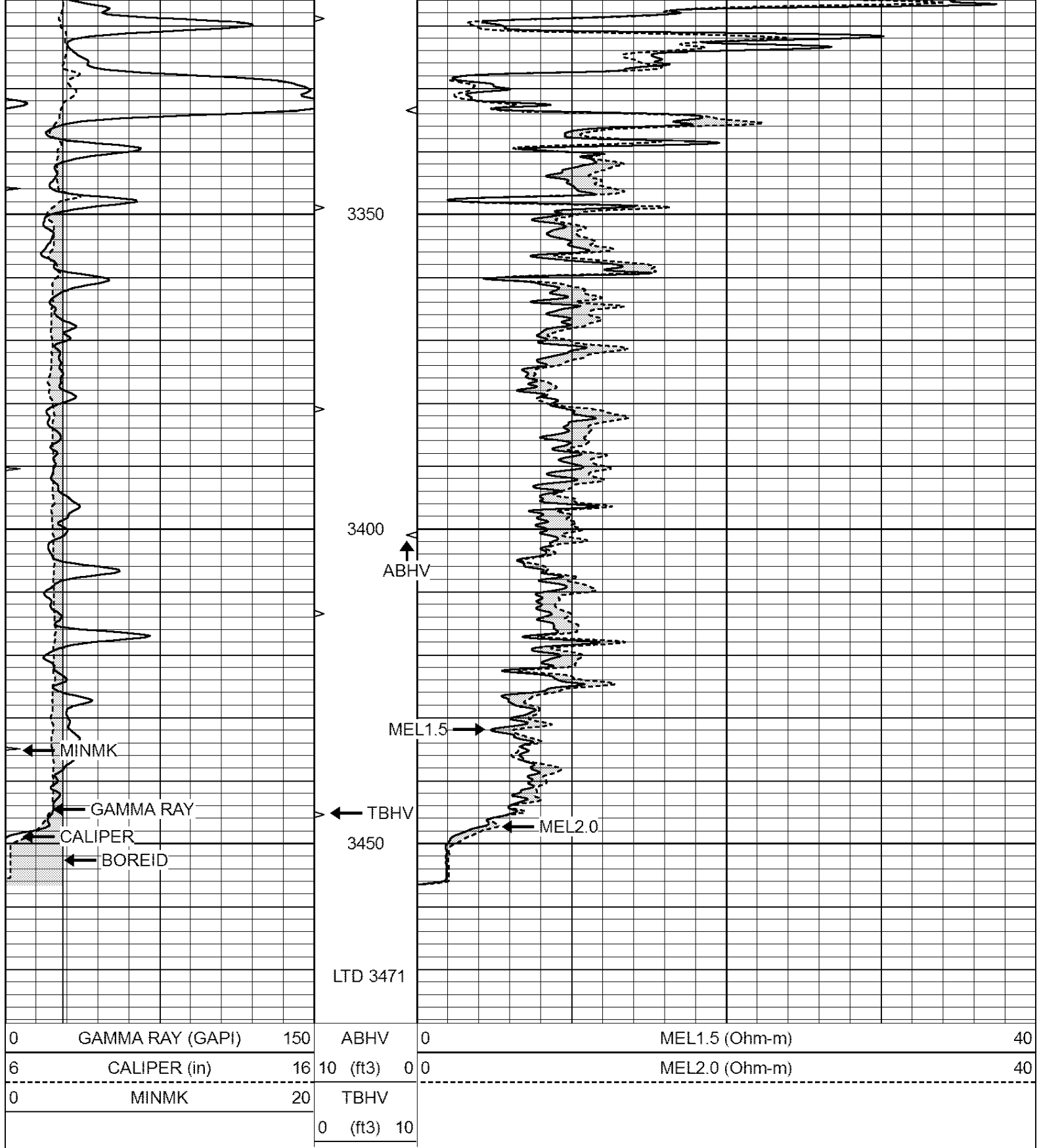
3150

3200

3250

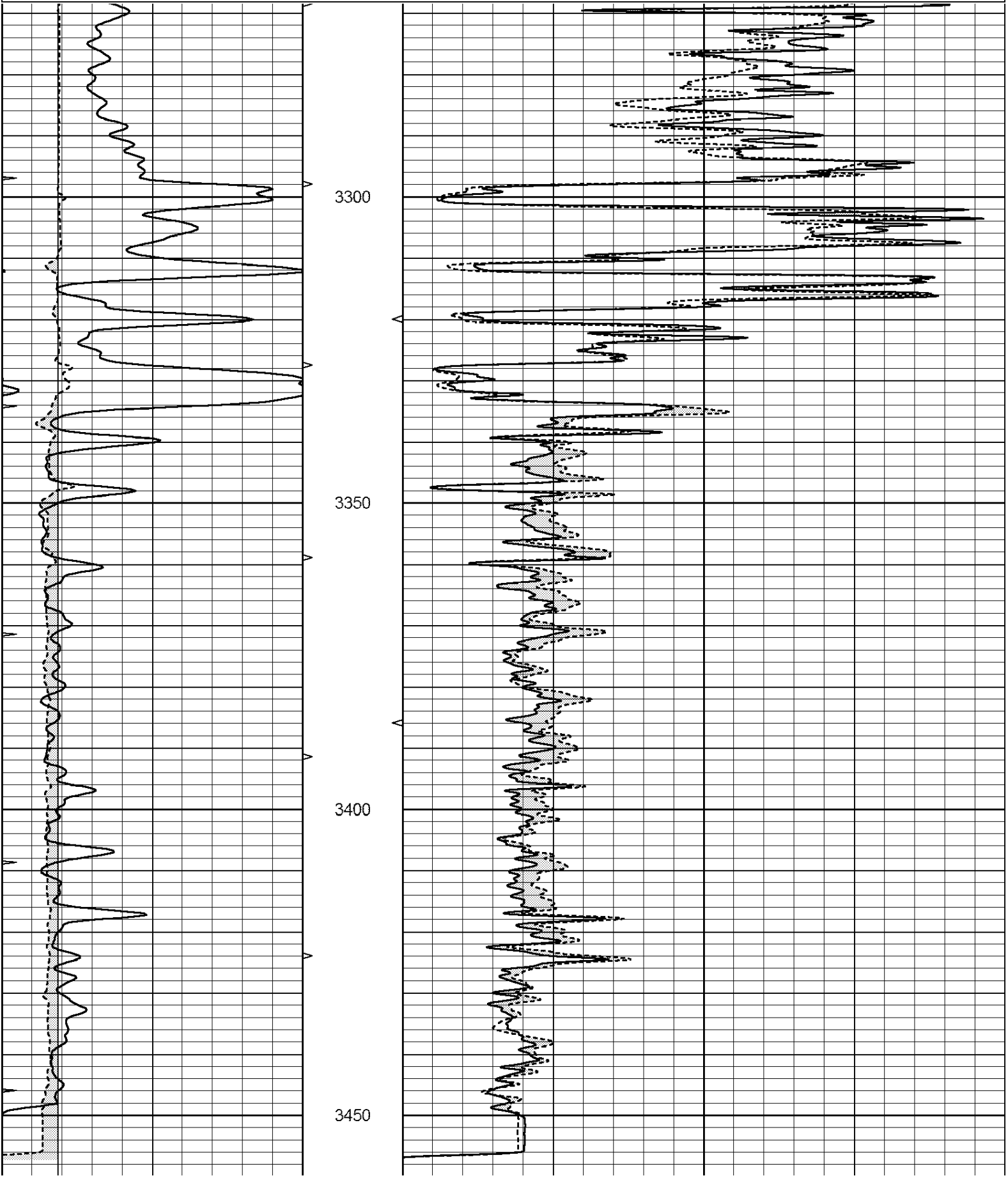
3300





REPEAT SECTION

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



[illegible]

Database File: 2103ddn.db Dataset Pathname: pass4 Dataset Creation: Thu Oct 19 07:33:21 2017 by Log 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=38.075	Offset=-0.400	
	Low Cal	High Cal	
References	0.000	20.000	
Readings	0.004	1.196	
2" Calibration:	Gain=48.000	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	