



SUPERIOR
Hays,
Kansas

MICRO LOG

Company	MAI OIL OPERATIONS, INC.		
Well	LUDWIG #1		
Field	WILDCAT		
County	BARTON	State	KANSAS
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Well	LUDWIG #1		
Field	WILDCAT		
County	BARTON	State	KANSAS
Location:	API # : 15-009-25579-0000 700' FSL & 1375' FWL SW - NW - SE - SW		Other Services CDL/CNL DIL
Permanent Datum	GROUND LEVEL	Elevation	1886
Log Measured From	KELLY BUSHING 8' A.G.L.	Elevation	K.B. 1894 D.F. 1892 G.L. 1886
Drilling Measured From	KELLY BUSHING		
Date	8/21/11		
Run Number	TWO		
Depth Driller	3460		
Depth Logger	3460		
Bottom Logged Interval	3458		
Top Log Interval	2750		
Casing Driller	8 5/8" @ 870'		
Casing Logger	869		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 8300 PPM	
Density / Viscosity	9.2/68		
pH / Fluid Loss	11.0/9.2		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	.50 @ 93F		
Rmf @ Meas. Temp	.37 @ 93F		
Rmc @ Meas. Temp	.60 @ 93F		
Source of Rmf / Rmc	MEASURED		
Rim @ BHT	.41 @ 111F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	111F		
Equipment Number	680		
Location	HAYS, KS.		
Recorded By	JASON CAPPELLUCCI		
Witnessed By	STEVE MURPHY		

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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 SUPERIOR WELL SERVICE (785) 628-6395
DIRECTIONS
OLMITZ KS. - 2 W. TO RD. 60 - 1/8 N. - E. INTO

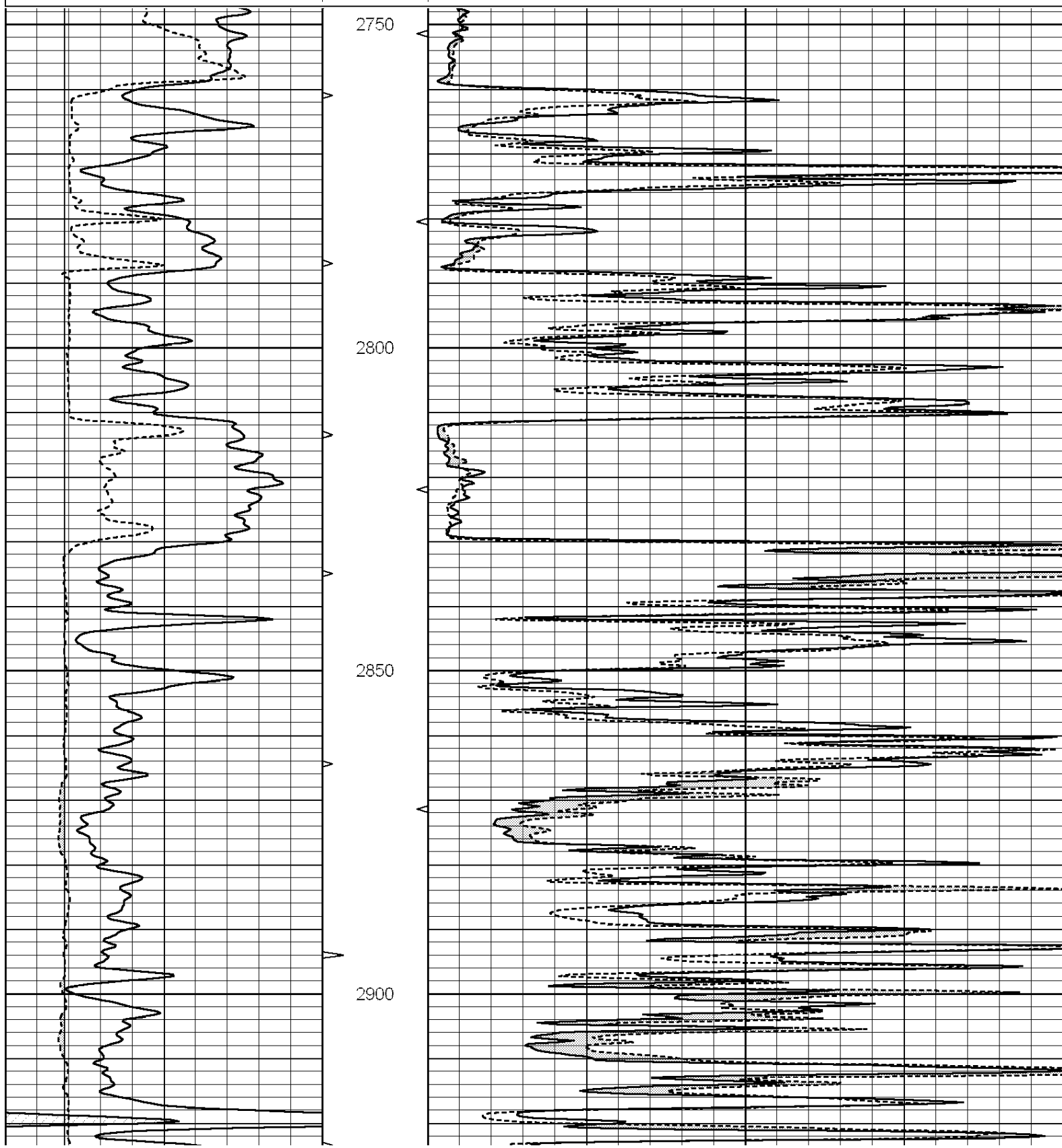


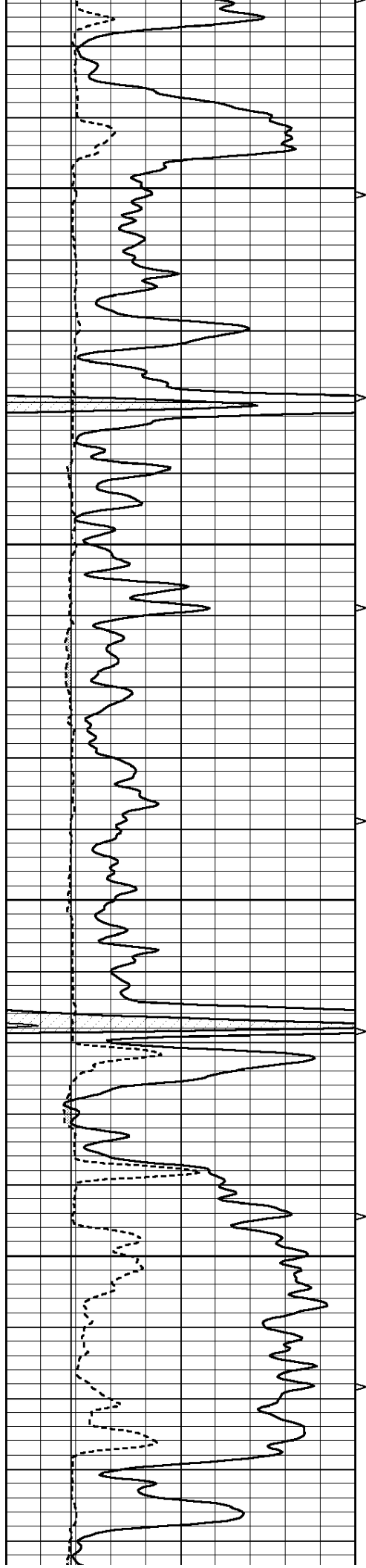
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MAIN SECTION

Database File: 007418ddn.db
 Dataset Pathname: pass6.1
 Presentation Format: _micro
 Dataset Creation: Sun Aug 21 03:50:31 2011 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
			TBHV			
			0 (ft3)	10		



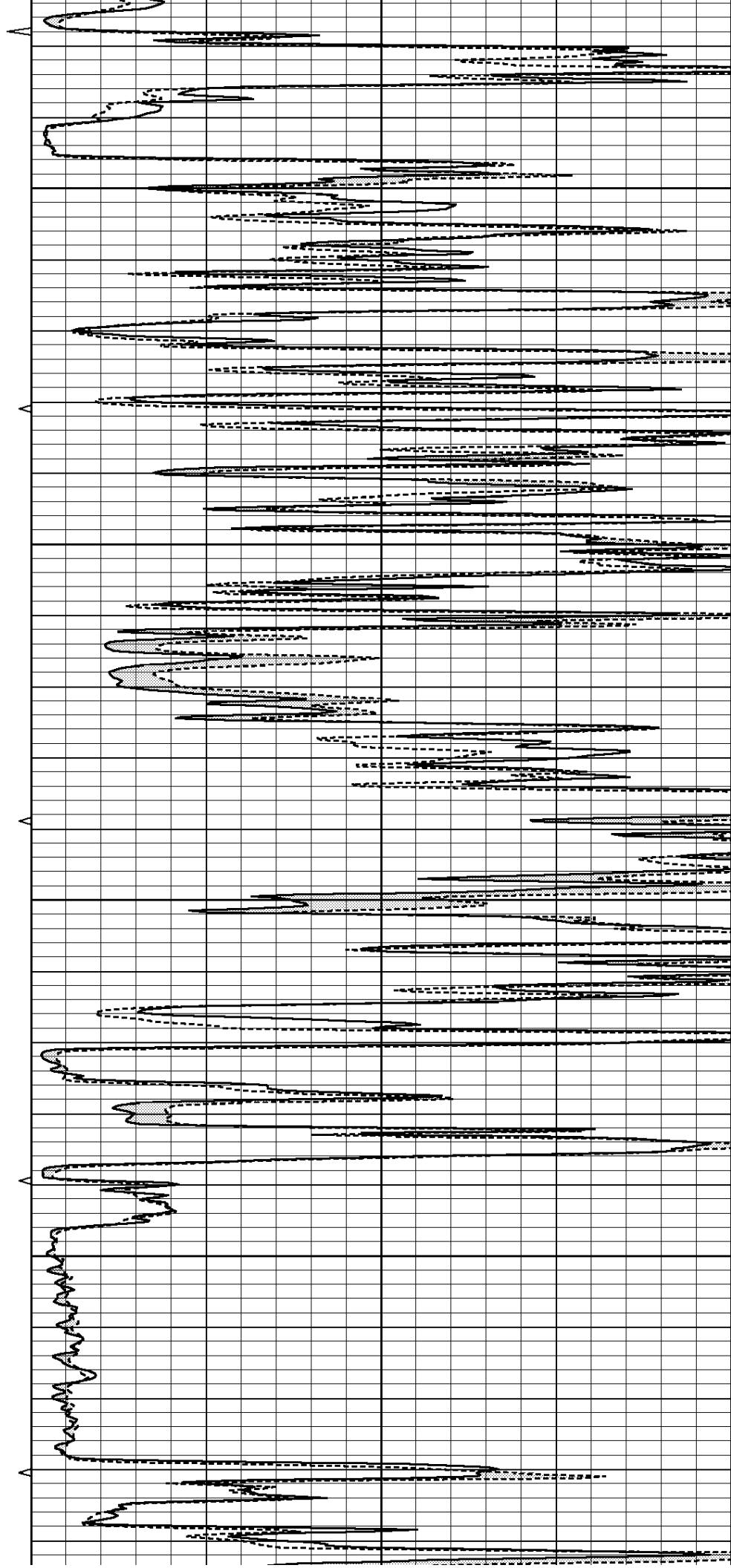


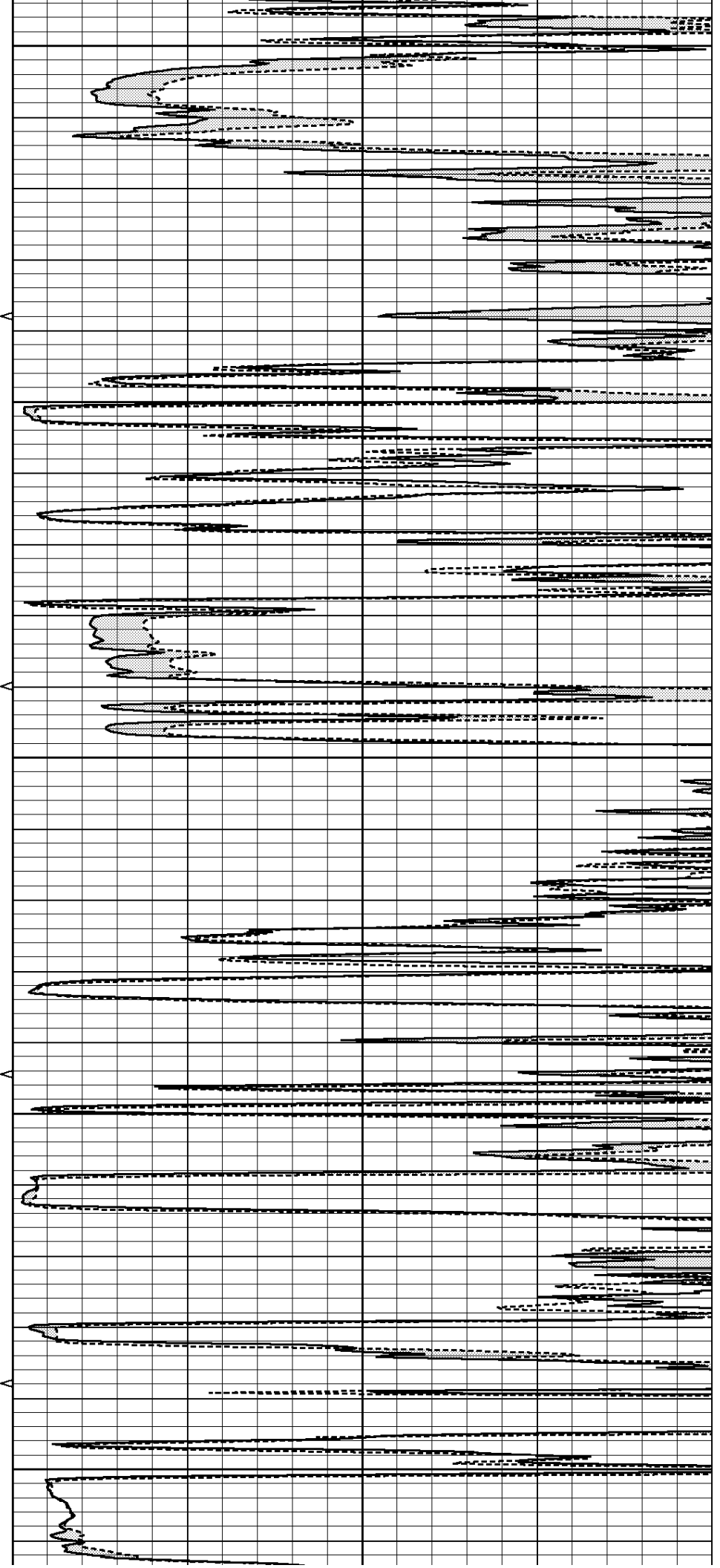
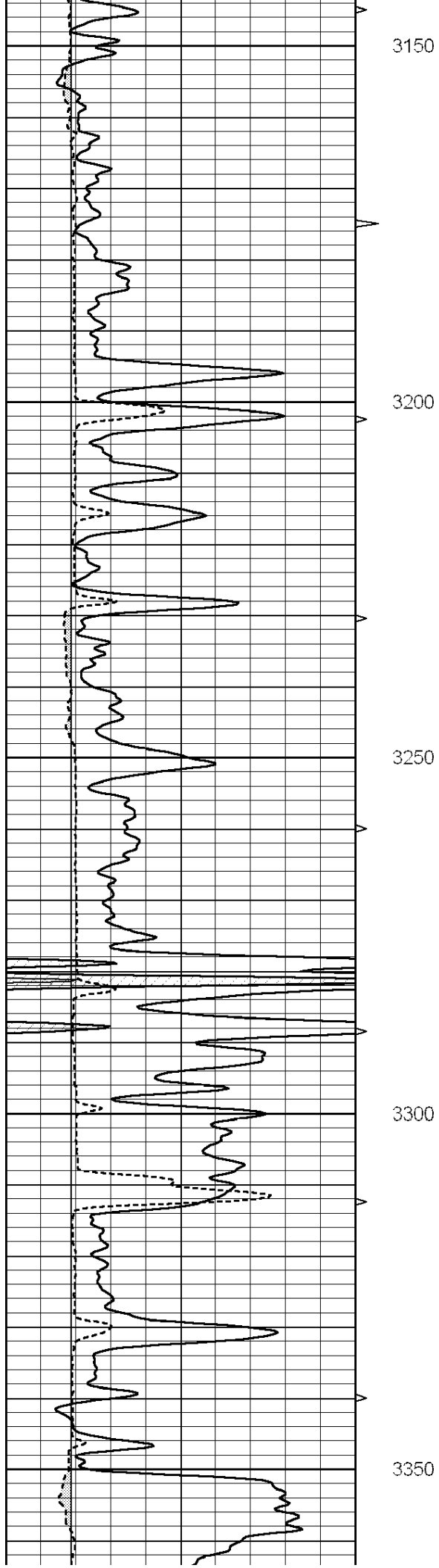
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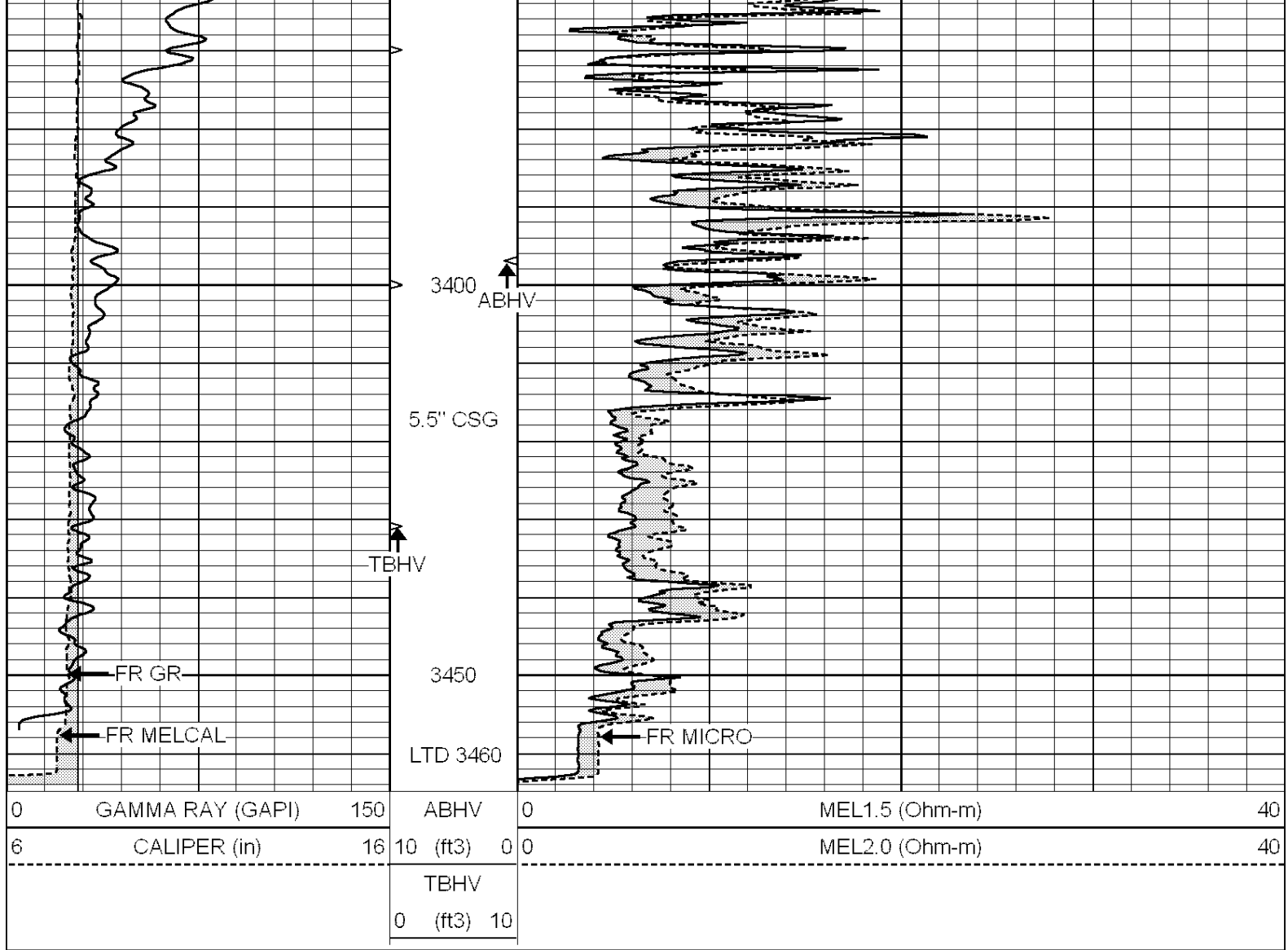
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3050

3100





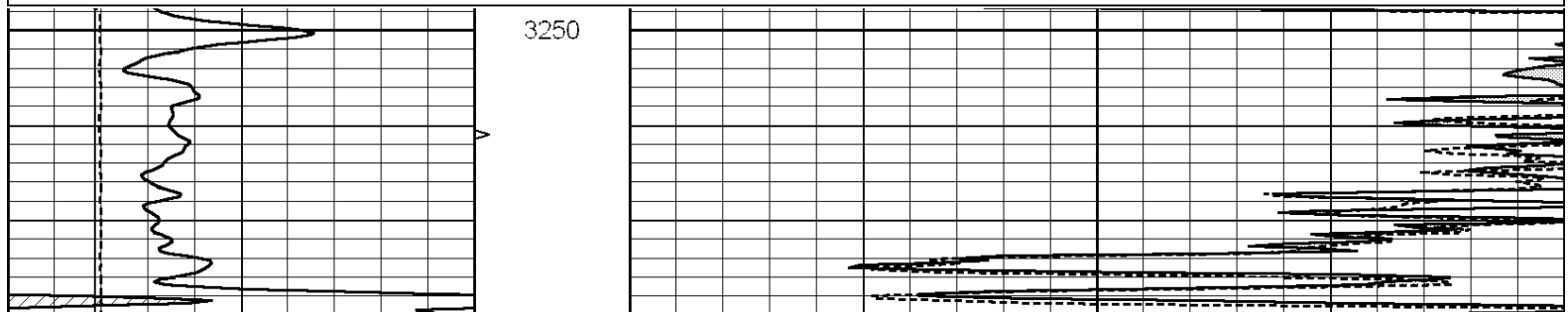


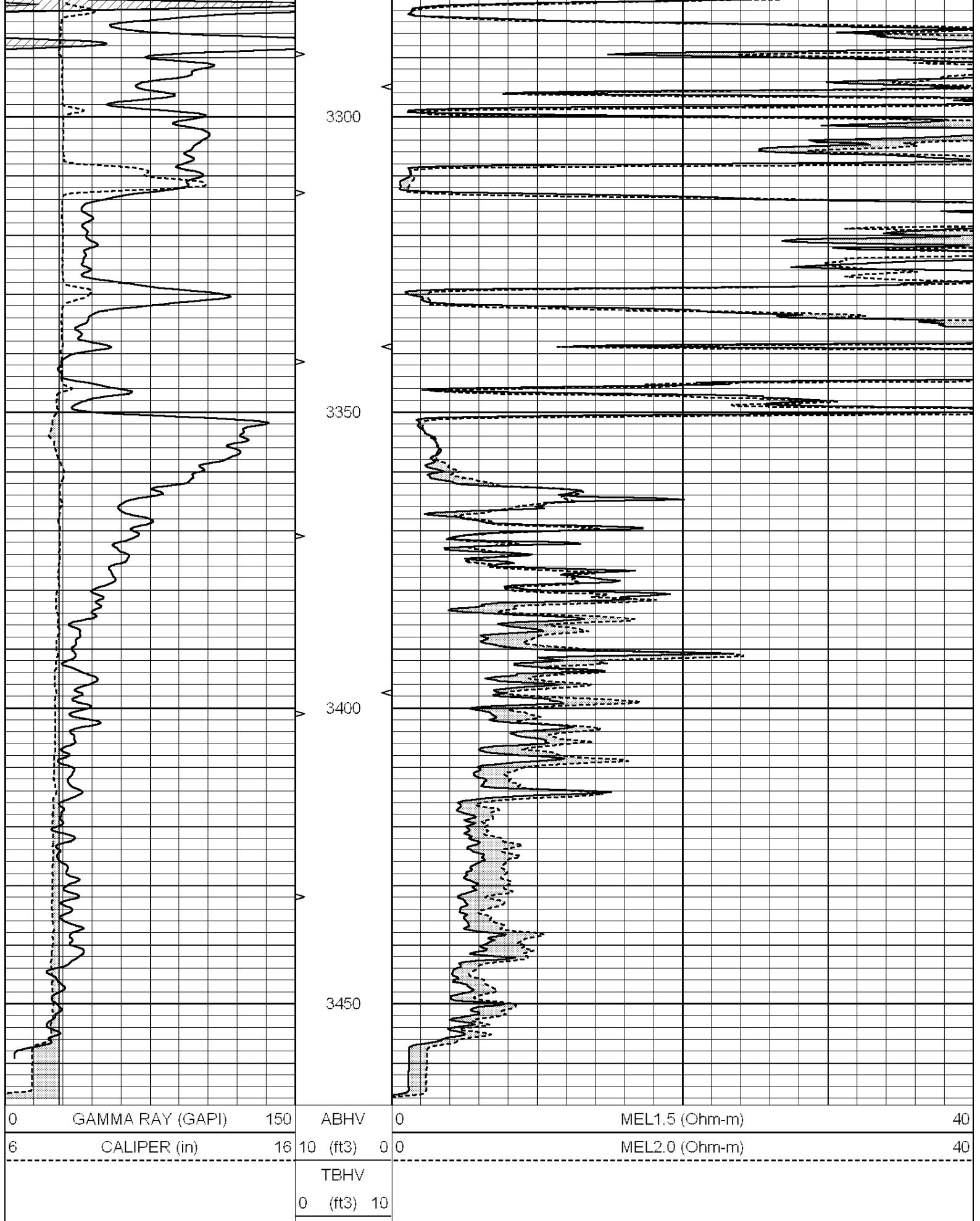
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REPEAT SECTION

Database File: 007418ddn.db
 Dataset Pathname: pass5.1
 Presentation Format: _micro
 Dataset Creation: Sun Aug 21 03:40:27 2011 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
			TBHV			
			0 (ft3)	10		





MICRO Calibration Report

Serial Number: MICRO6
Tool Model: PROBE
Performed: Wed Aug 17 13:28:55 2011

Caliper Calibration: Gain=5.211 Offset=-0.060

References Low Cal High Cal
8.000 14.000
Readings 1.178 2.330

1.5" Calibration: Gain=30.075 Offset=-0.600

References Low Cal High Cal
0.000 20.000
Readings 0.004 1.196

2" Calibration: Gain=40.041 Offset=-0.600

References Low Cal High Cal
0.000 20.000
Readings 0.006 0.913

Gamma Ray Calibration Report

Serial Number: #8
Tool Model: OPEN
Performed: Mon Jun 13 16:56:43 2011

Calibrator Value: 150.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 175.0 cps

Sensitivity: 0.8371 GAPI/cps