



**SUPERIOR**  
Hays,  
Kansas

**MICRO  
LOG**

Company PHILLIPS EXPLORATION, L.C.  
Well HERMAN - RUDER #1-6  
Field WILDCAT  
County TREGO  
State KANSAS

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Well HERMAN - RUDER #1-6  
Field WILDCAT  
County TREGO State KANSAS

Location: API # : 15-195-22770-0000  
2640' FNL & 330' FWL  
W/2 - W/2 - W/2  
SEC 6 TWP 11S RGE 23W  
Permanent Datum GROUND LEVEL Elevation 2303  
Log Measured From KELLY BUSHING 5' A.G.L.  
Drilling Measured From KELLY BUSHING  
Other Services  
CDL/CNL  
DIL  
Elevation  
K.B. 2308  
D.F. 2306  
G.L. 2303

Date	4/27/12		
Run Number	TWO		
Depth Driller	4000		
Depth Logger	4000		
Bottom Logged Interval	3998		
Top Log Interval	3200		
Casing Driller	8 5/8"@218'		
Casing Logger	218		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 2,000 PPM	
Density / Viscosity	9.4/59		
pH / Fluid Loss	10.5/6.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.950@72F		
Rmt @ Meas. Temp	.713@72F		
Rmc @ Meas. Temp	1.14@72F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.590@116F		
Time Circulation Stopped	4.5 HOURS		
Time Logger on Bottom	1:00 A.M.		
Maximum Recorded Temperature	116F		
Equipment Number	4010		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	JIM PHILLIPS		

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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 HAYS, KANSAS (785) 628-6395  
DIRECTIONS  
WAKEENEY, KS. & I-70, 7N. ON HWY 283 TO "RD. B", 3W., 1/2 N. INTO

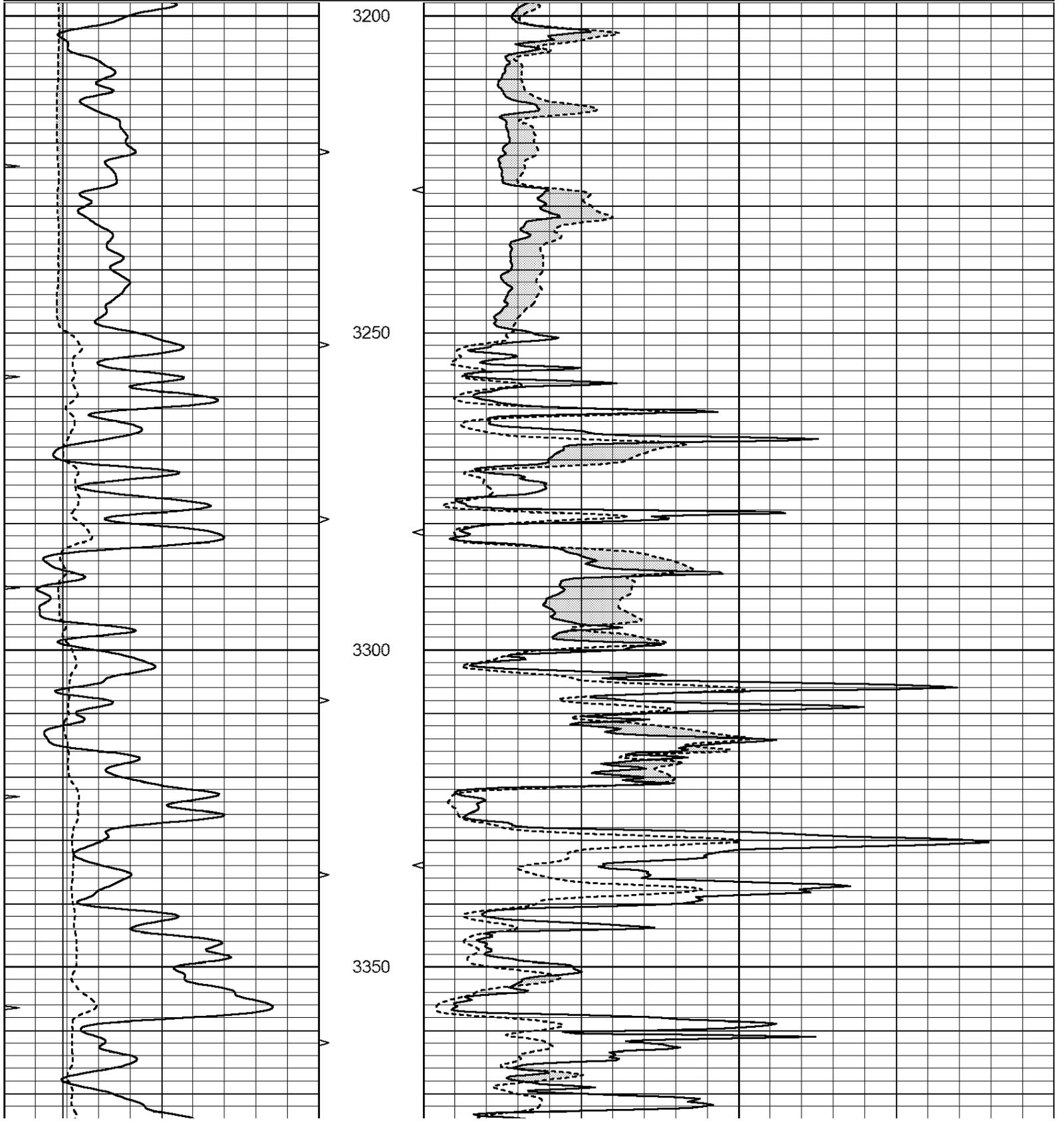


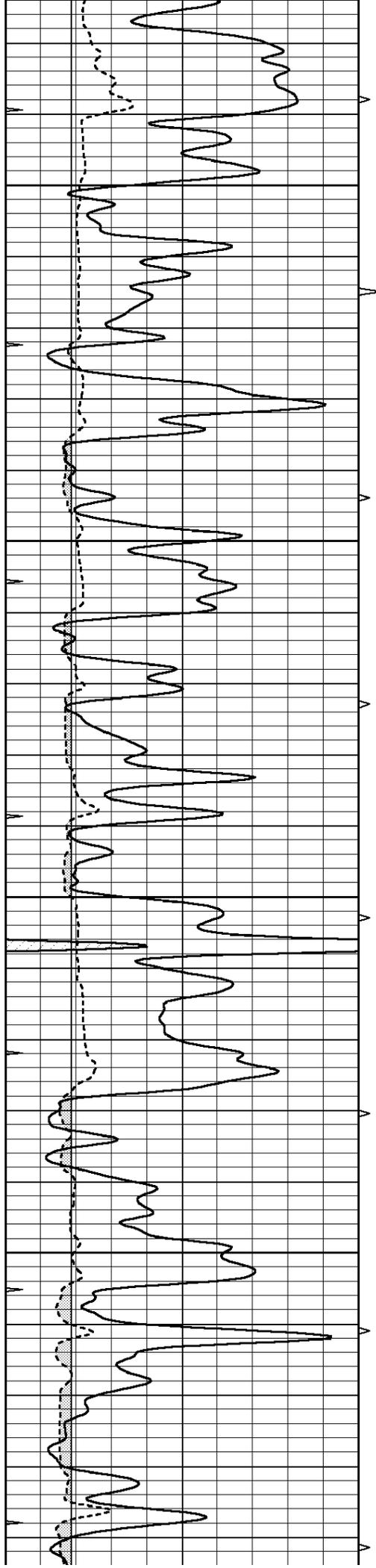
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**MAIN SECTION**

Database File: 408756ddn.db  
 Dataset Pathname: pass6.4  
 Presentation Format: micro  
 Dataset Creation: Fri Apr 27 04:02:43 2012  
 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		



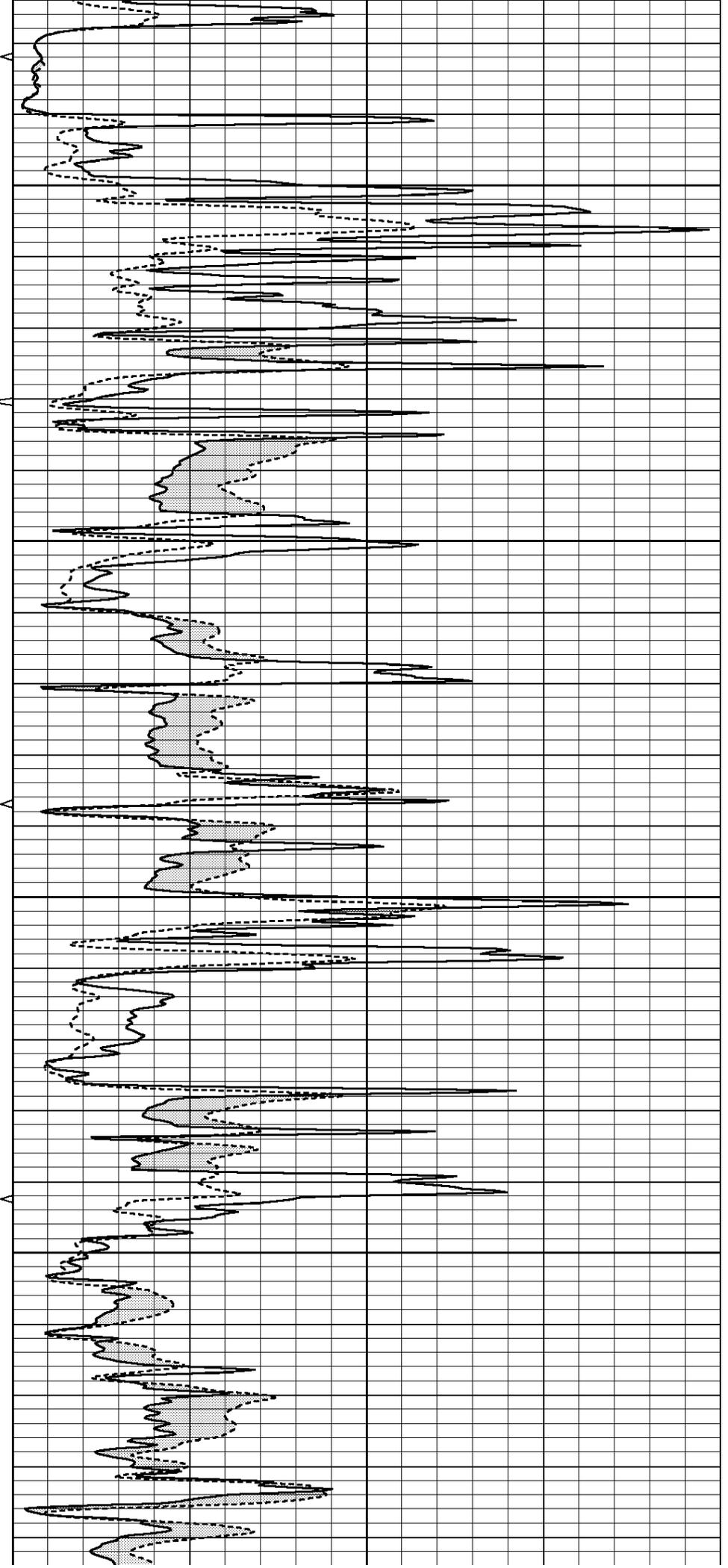


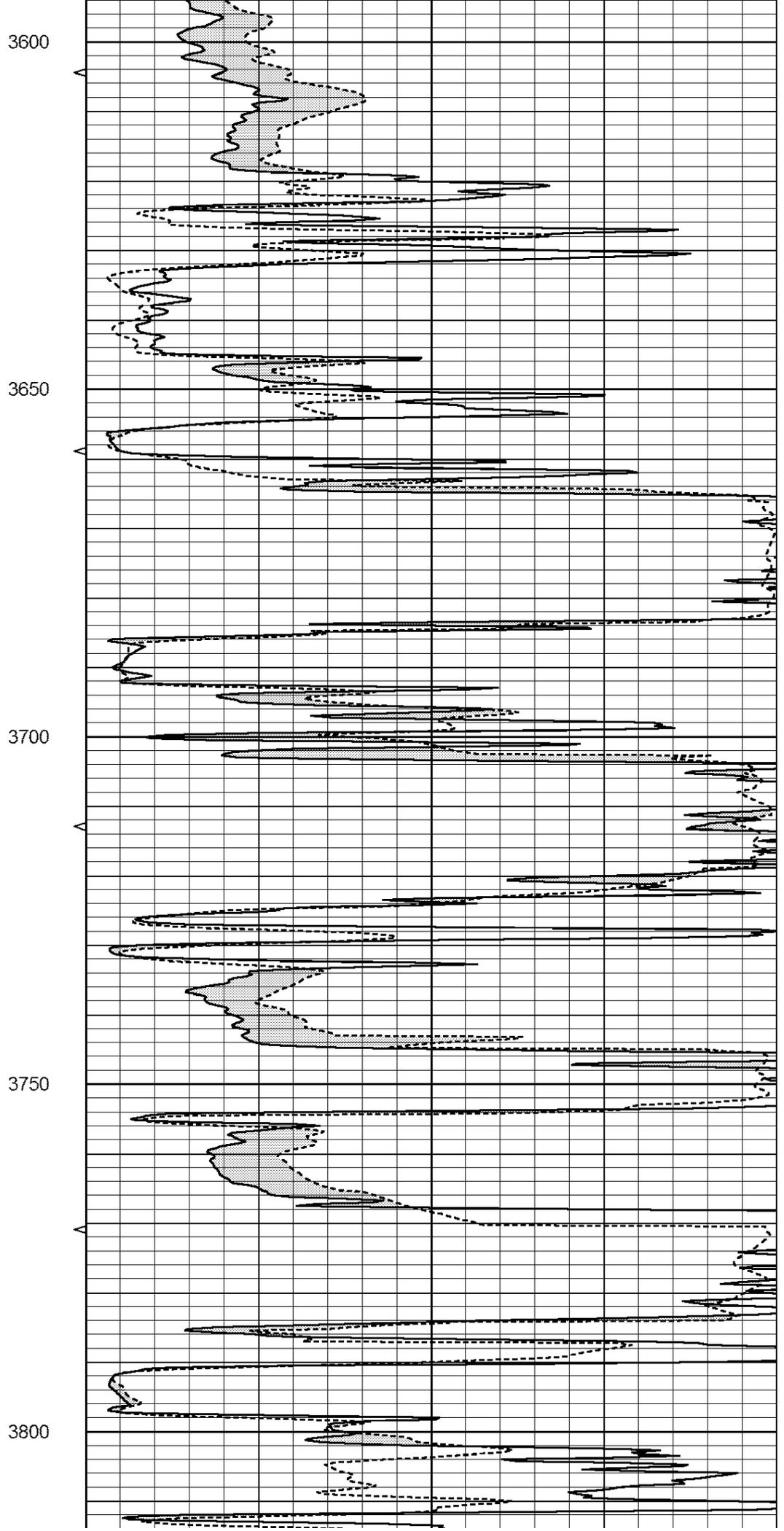
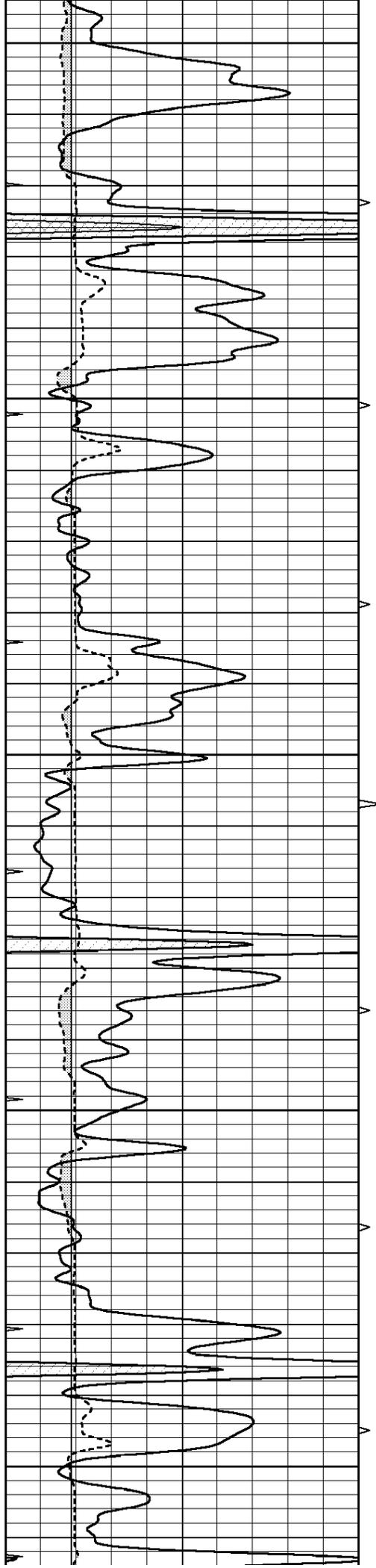
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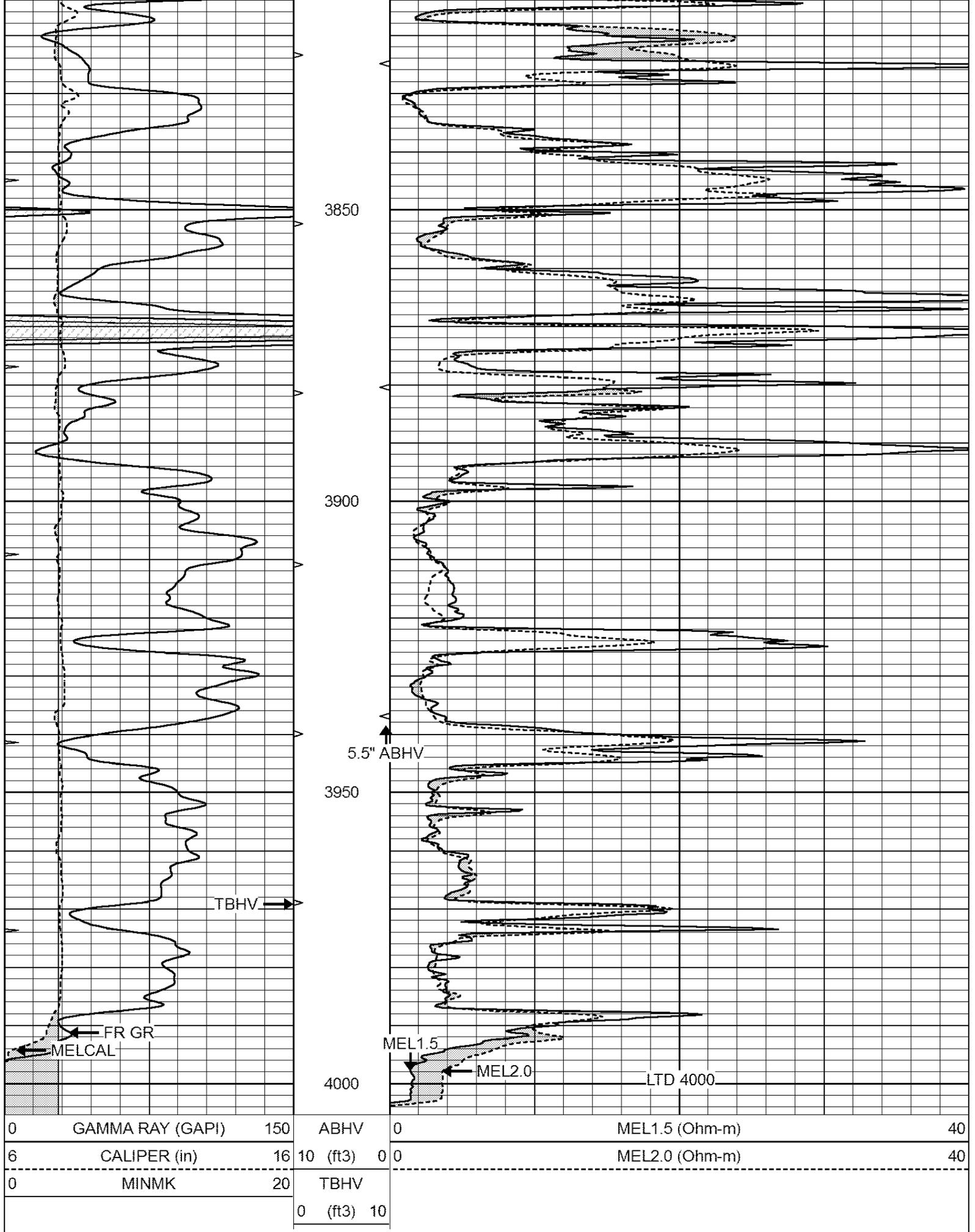
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3550







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		

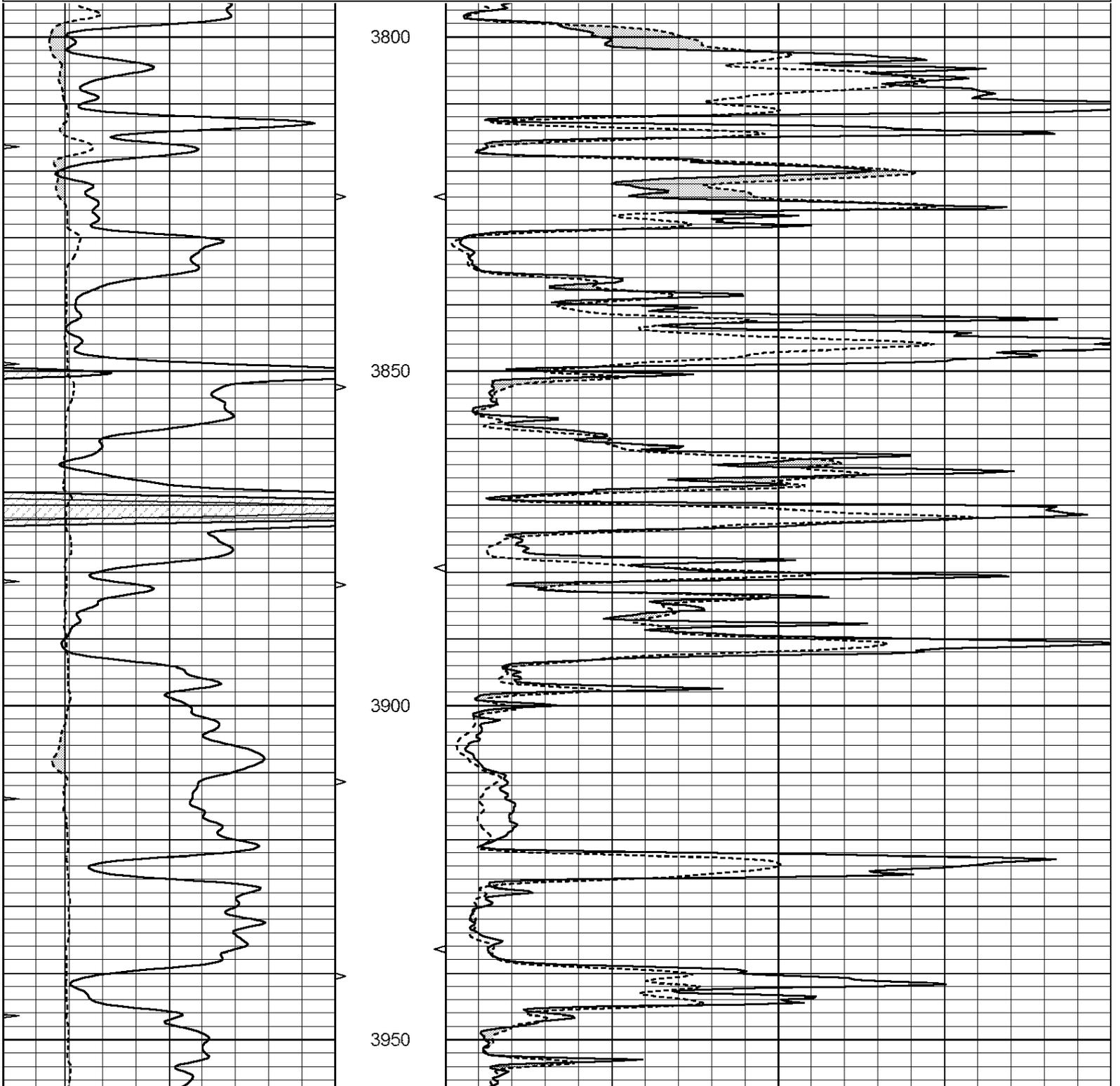


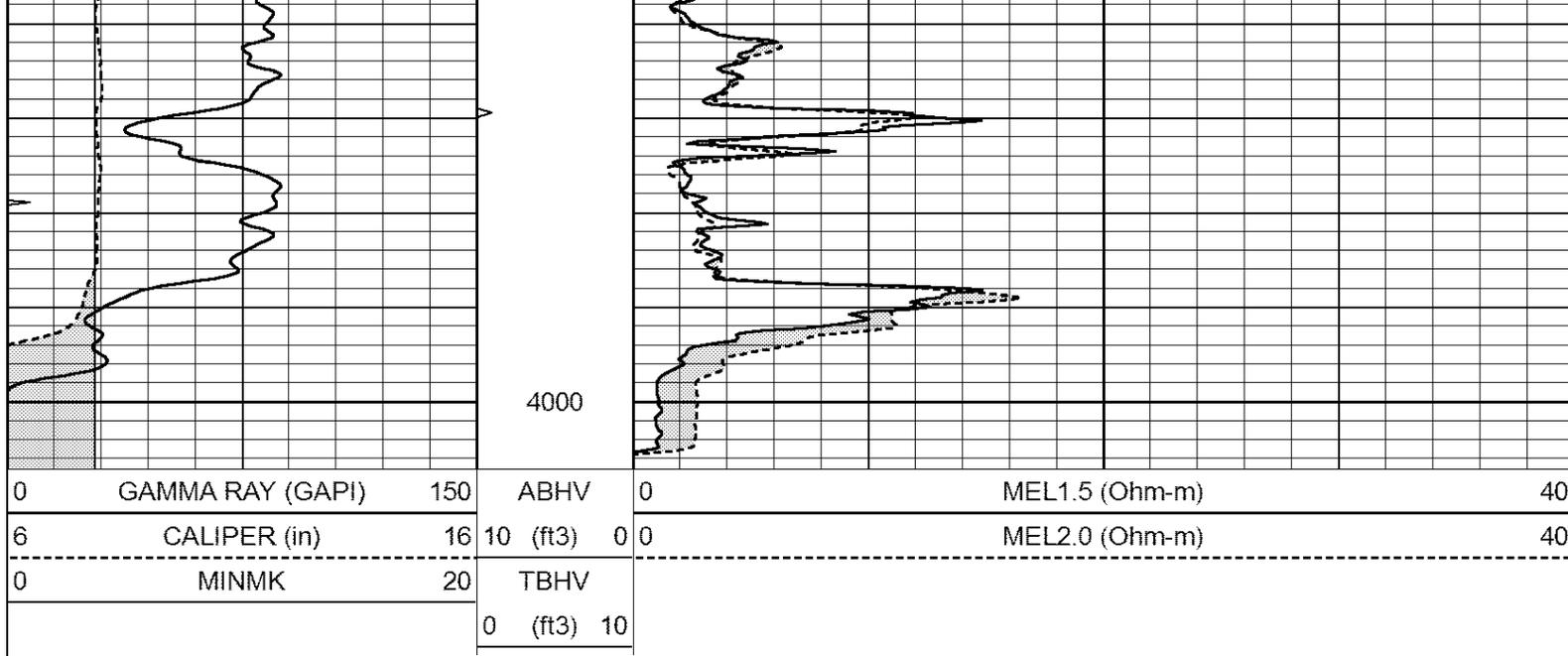
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# REPEAT SECTION

Database File: 408756ddn.db  
 Dataset Pathname: pass5.7  
 Presentation Format: micro  
 Dataset Creation: Fri Apr 27 03:29:10 2012 by Calc Open-Cased 110302  
 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: 408756ddn.db  
 Dataset Pathname: pass6.4  
 Dataset Creation: Fri Apr 27 04:02:43 2012

### MICRO Calibration Report

Serial Number:	2	
Tool Model:	PROBE	
Performed:	Mon Apr 16 23:36:13 2012	
Caliper Calibration:	Gain=4.164	Offset=3.193
References	Low Cal	High Cal
Readings	7.900	15.000
	1.130	2.835
1.5" Calibration:	Gain=30.000	Offset=-1.500
References	Low Cal	High Cal
Readings	0.000	20.000
	0.065	1.210
2" Calibration:	Gain=60.000	Offset=-1.700
References	Low Cal	High Cal
Readings	0.000	20.000
	0.012	1.043

### Gamma Ray Calibration Report

Serial Number:	GR4	
Tool Model:	OPEN	
Performed:	Fri Apr 27 03:22:19 2012	
Calibrator Value:	200.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	189.0	cps
Sensitivity:	1.3000	GAPI/cps