



SUPERIOR
Hays,
Kansas

MICRO LOG

Company	PHILLIPS EXPLORATION CO. L.C.		
Well	LAAS #1-13		
Field	WILDCAT		
County	NESS		
State	KANSAS		
Company	PHILLIPS EXPLORATION COMPANY, L.C.		
Well	LAAS #1-13		
Field	WILDCAT		
County	NESS		
State	KANSAS		
Location:	API # : 15-135-25322-0000		Other Services CDL/CNL DIL
330' FSL & 590' FWL			
SEC 13 TWP 19S RGE 24W			Elevation K.B. 2243 D.F. 2241 G.L. 2238
Permanent Datum	GROUND LEVEL		
Log Measured From	KELLY BUSHING 5' A.G.L.		
Drilling Measured From	KELLY BUSHING		
Date	11/20/11		
Run Number	TWO		
Depth Driller	4415		
Depth Logger	4414		
Bottom Logged Interval	4412		
Top Log Interval	3200		
Casing Driller	8 5/8"@230'		
Casing Logger	230		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 5,400	
Density / Viscosity	9.5/48		
pH / Fluid Loss	8.5/8.0		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	1.30@50F		
Rmt @ Meas. Temp	.975@50F		
Rmc @ Meas. Temp	1.56@50F		
Source of Rmt / Rmc	MEASUREMENT		
Rm @ BHT	.542@120F		
Time Circulation Stopped	4.5 HOURS		
Time Logger on Bottom	11:30 A.M.		
Maximum Recorded Temperature	120F		
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

NESS CITY, KS. (4 WAY STOP) 3S. ON HWY 283 TO "RD. 100", 1 1/2W. TO "T", 1S., 1/2 W. INTO

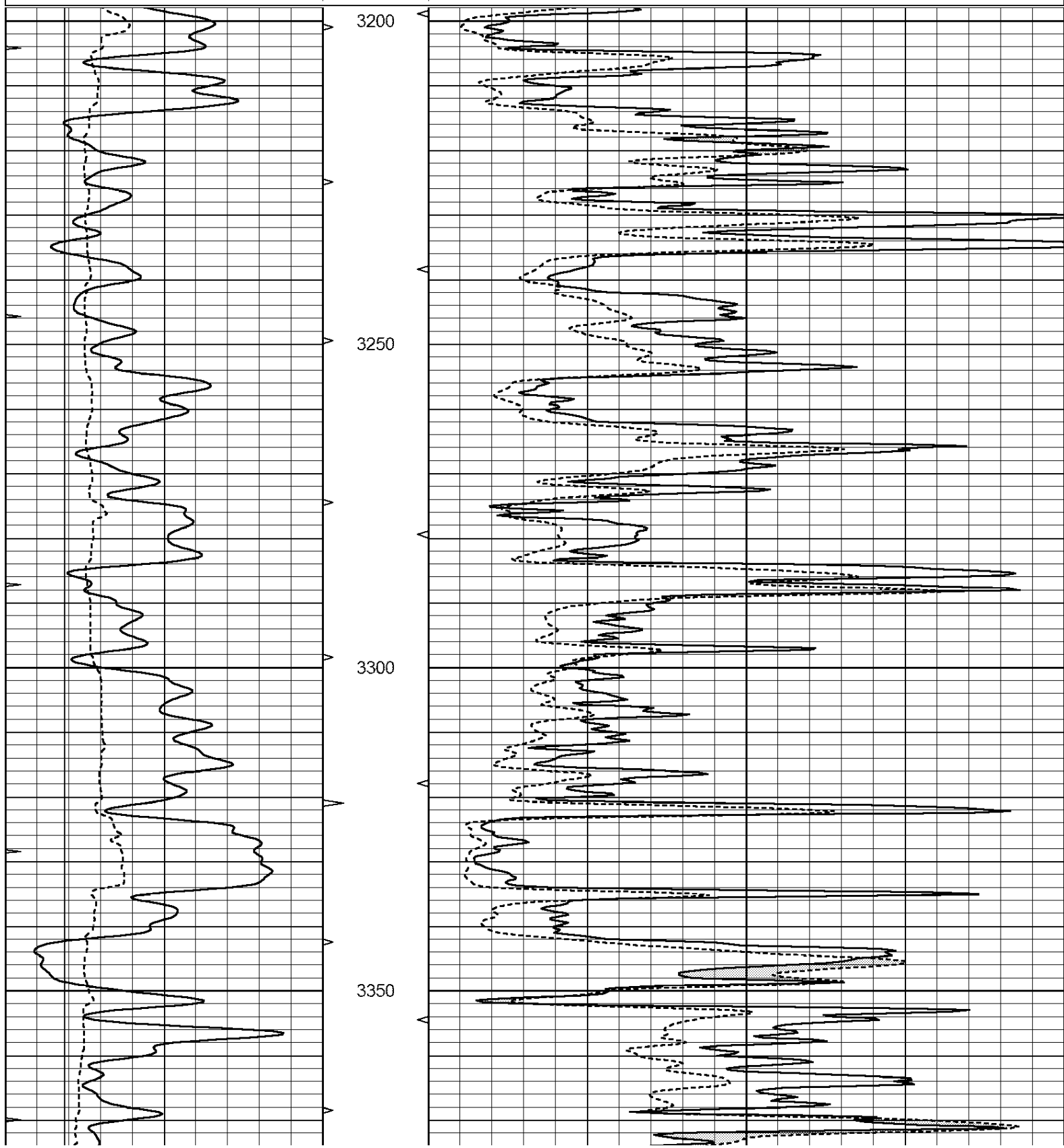


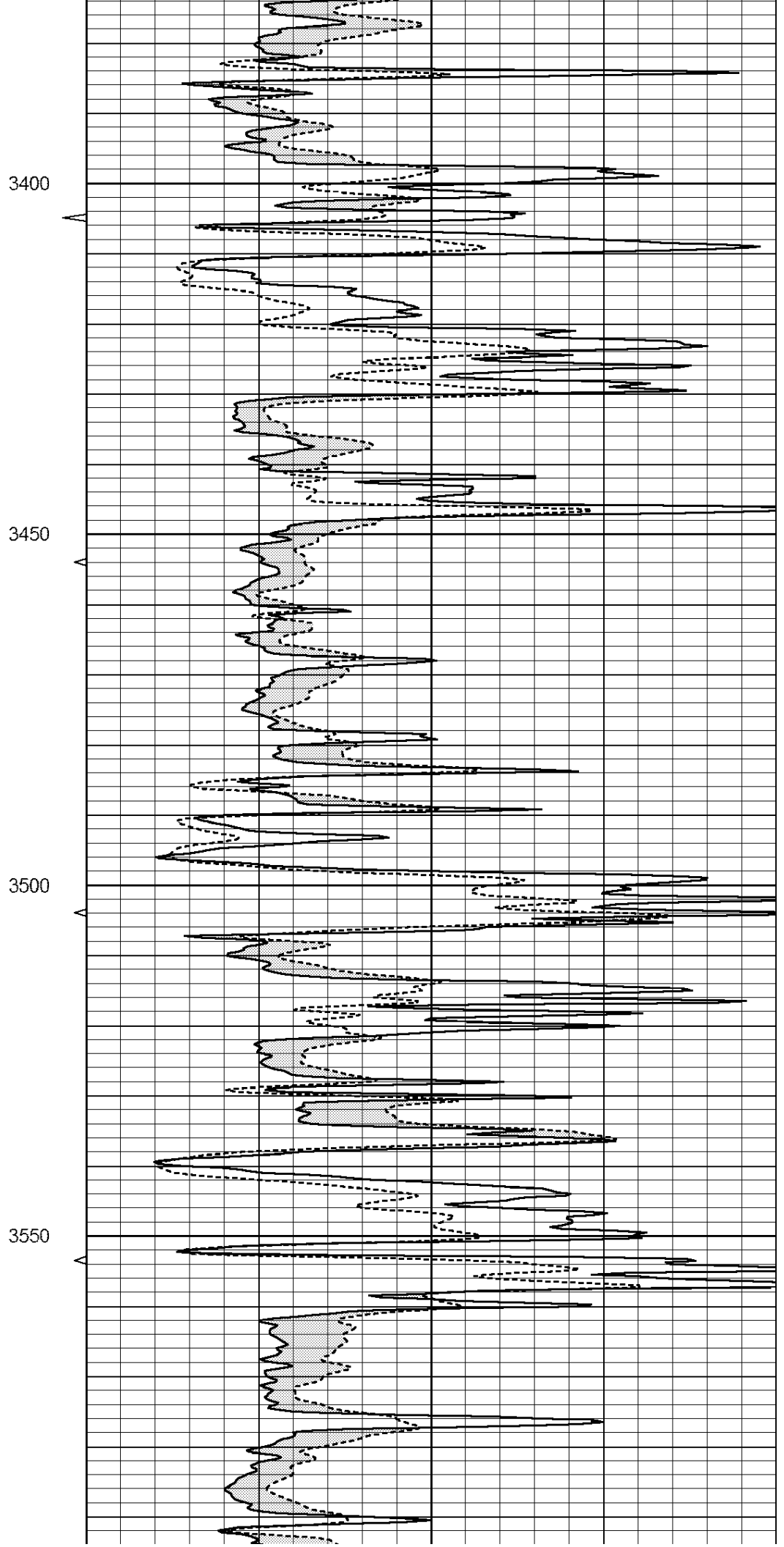
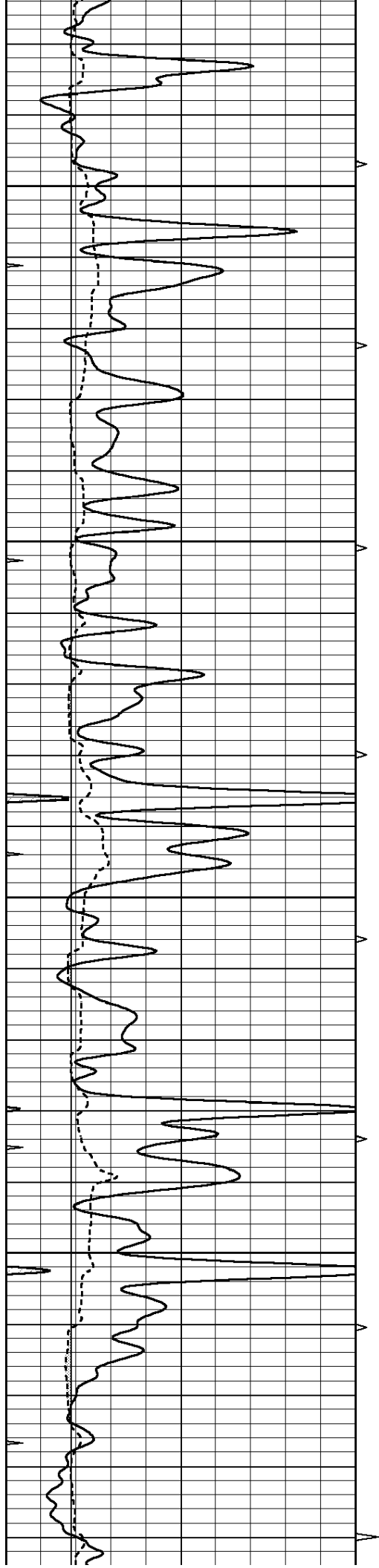
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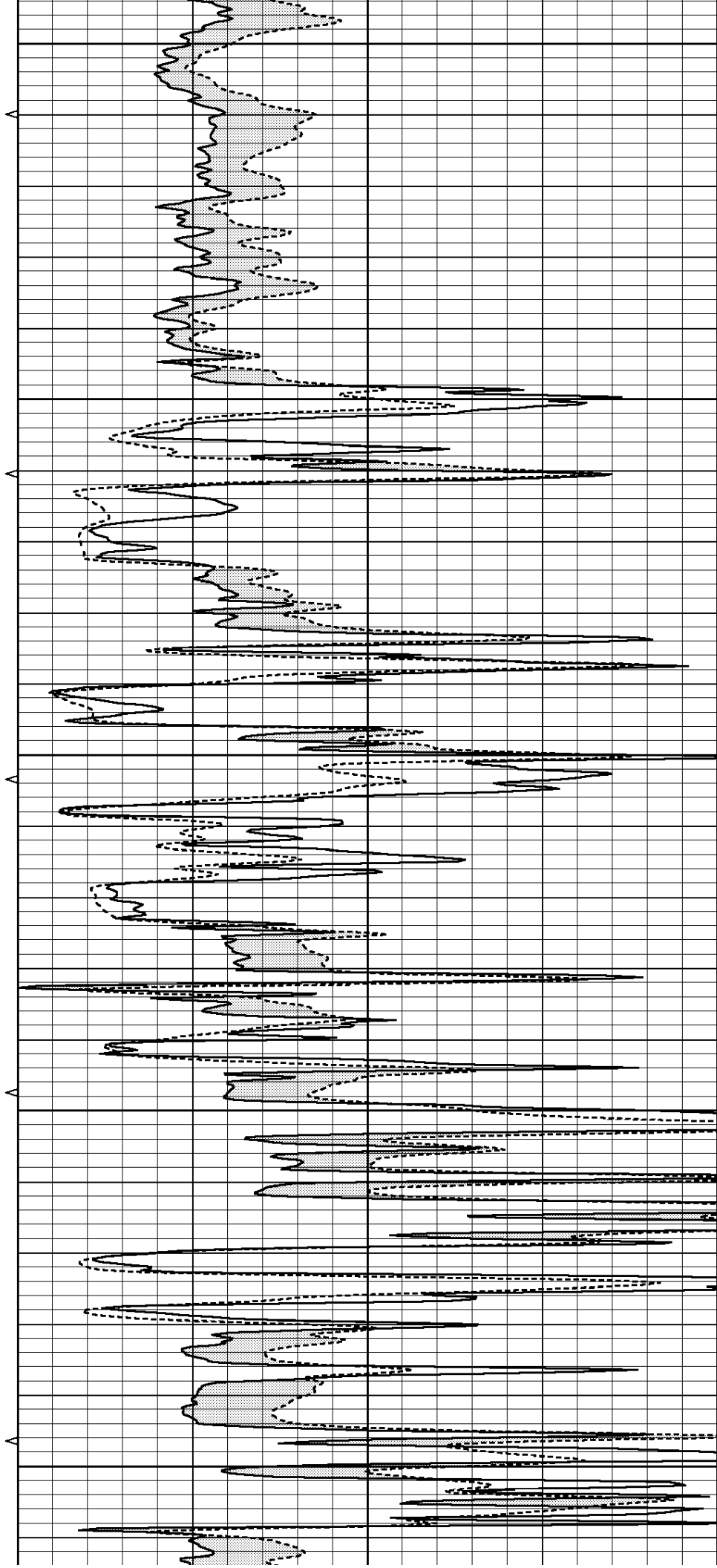
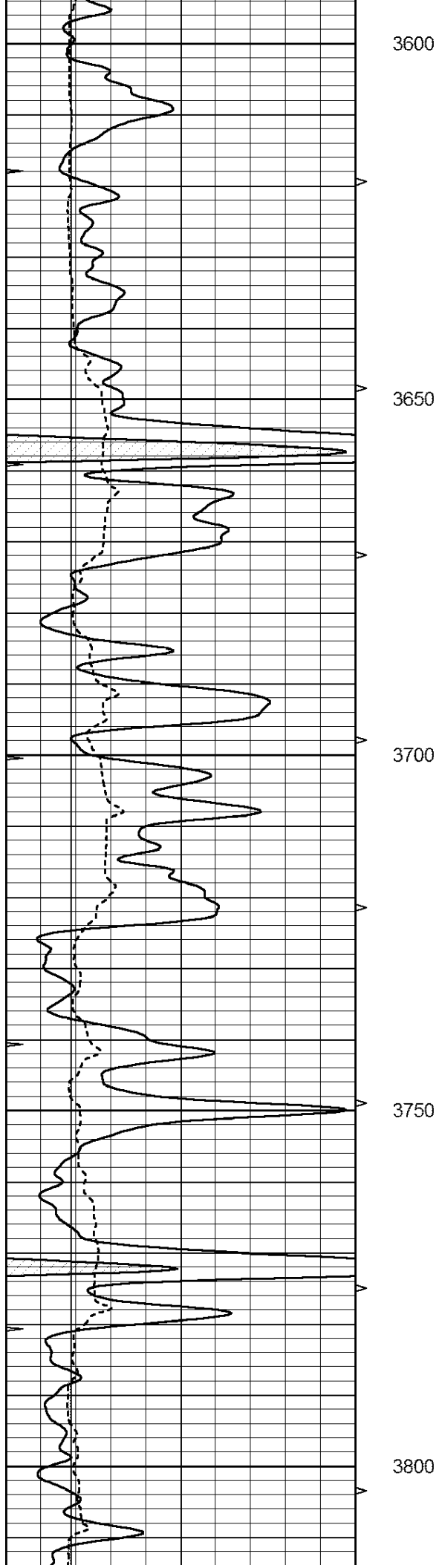
MAIN SECTION

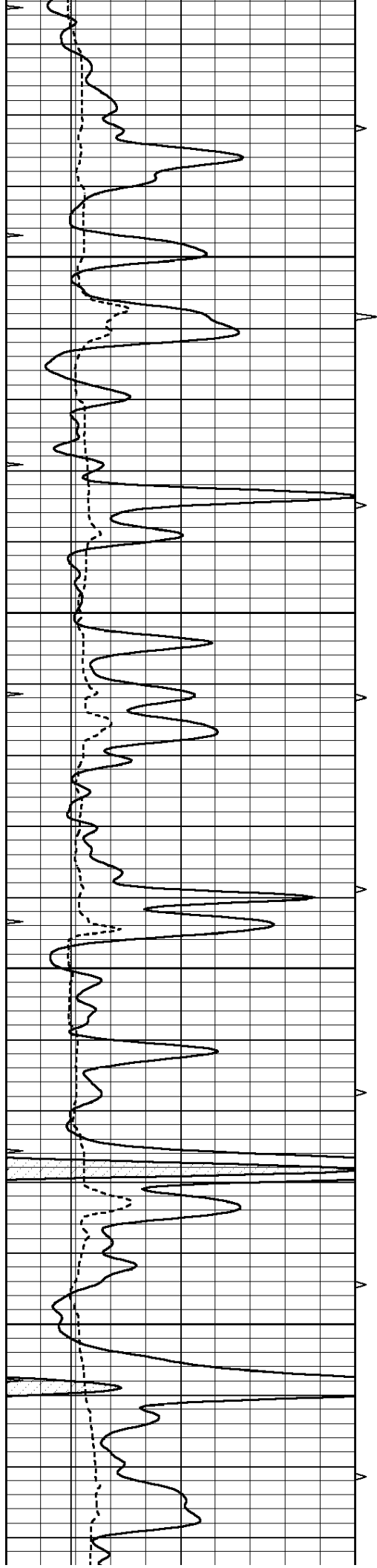
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 Dataset Pathname: pass6.1
 Presentation Format: micro
 Dataset Creation: Mon Nov 21 14:49:34 2011 by Calc Open-Cased 110302
 Charted by: Depth in Feet scaled 1:240

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







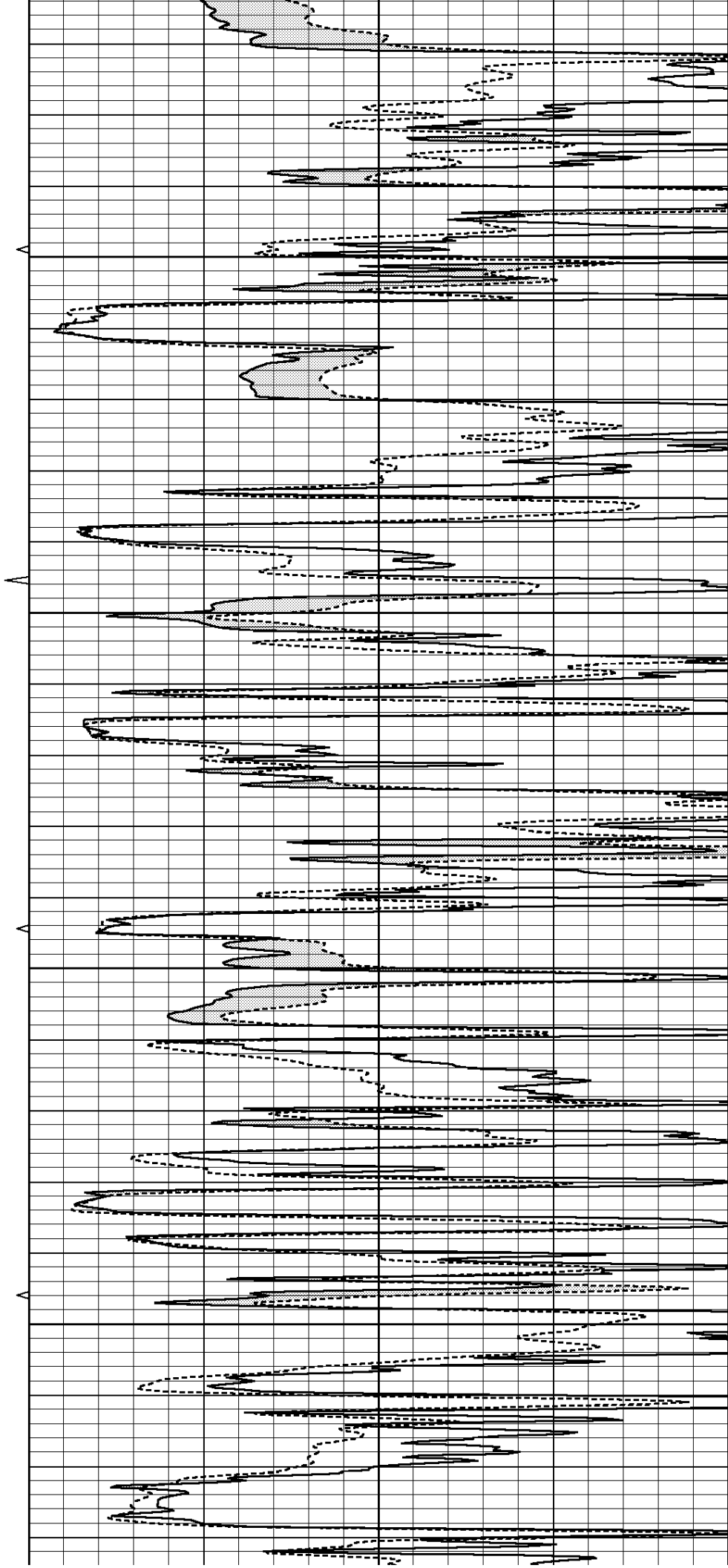


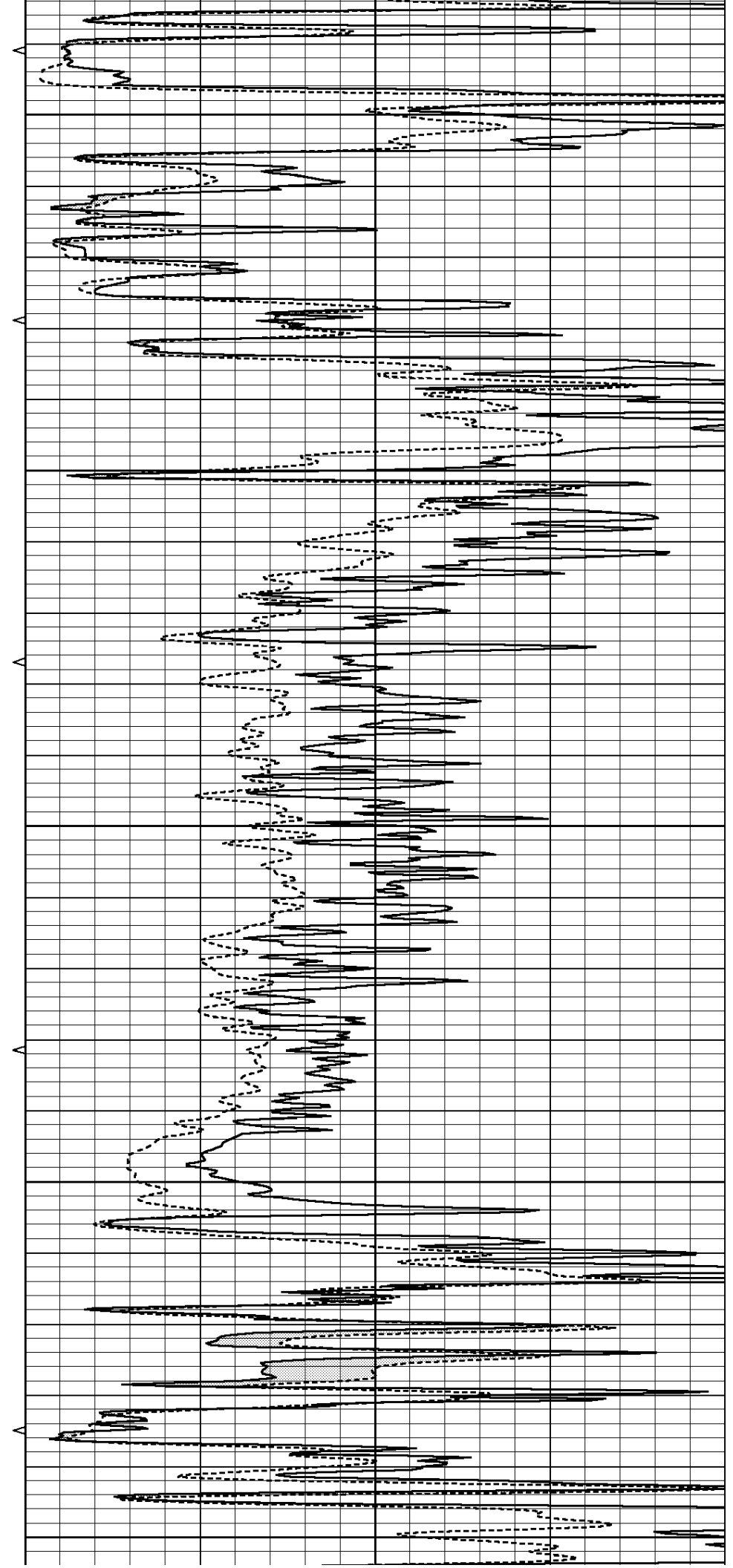
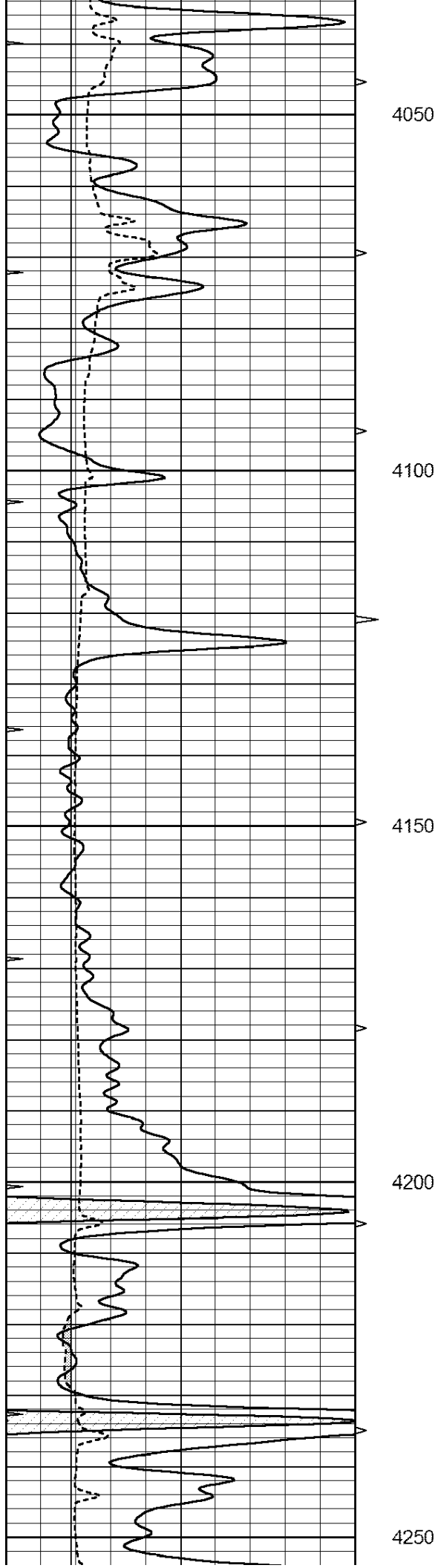
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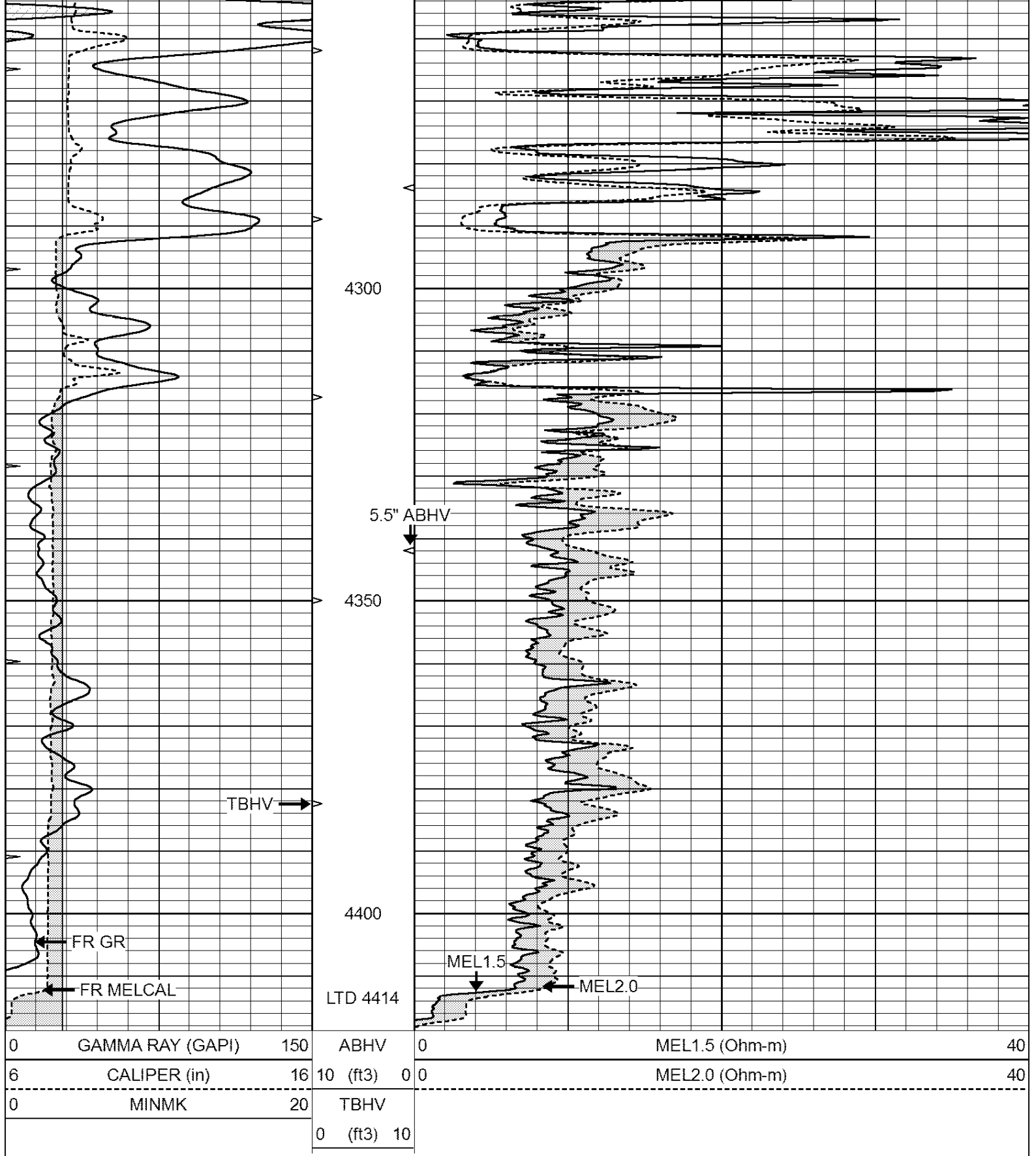
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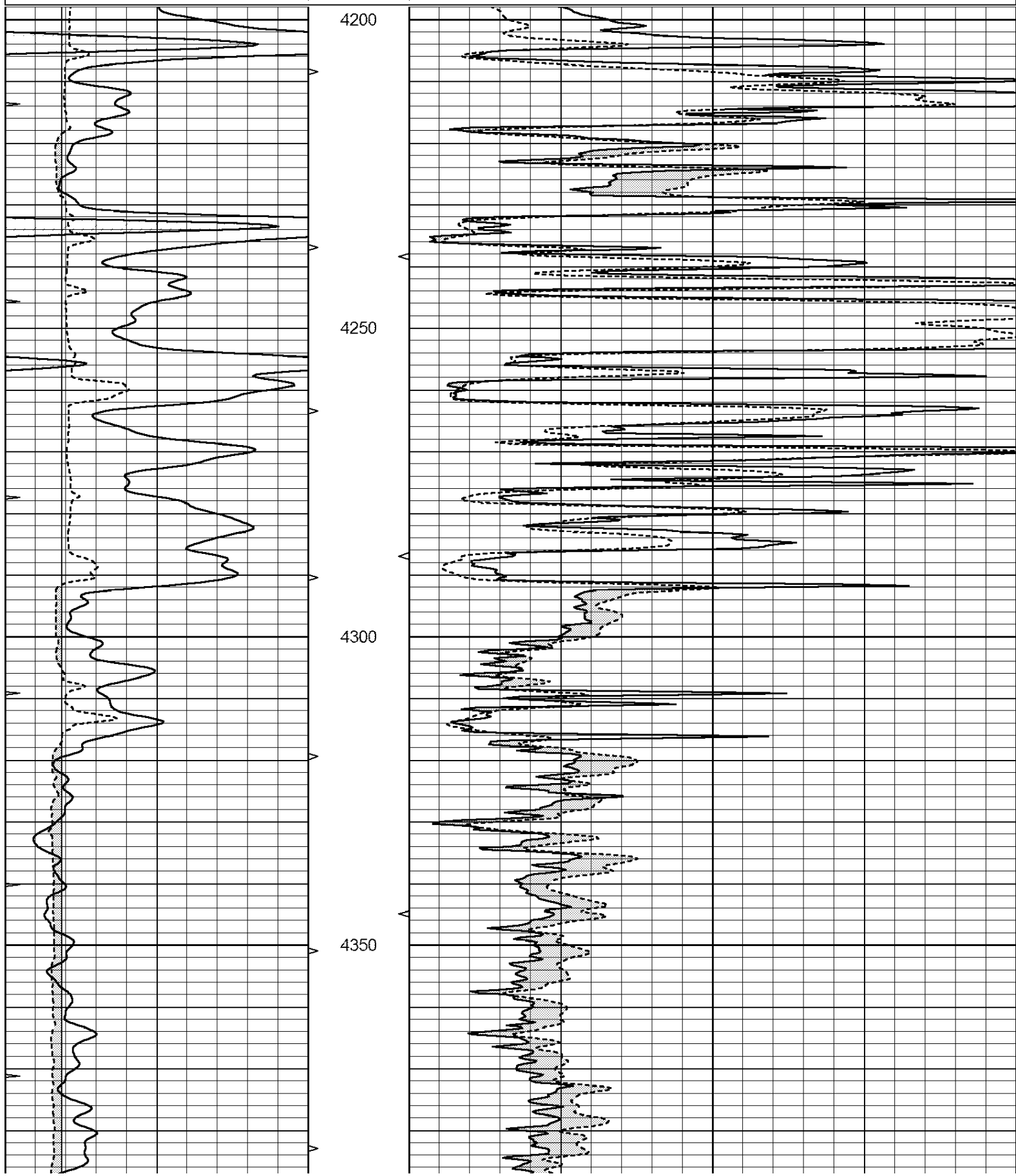


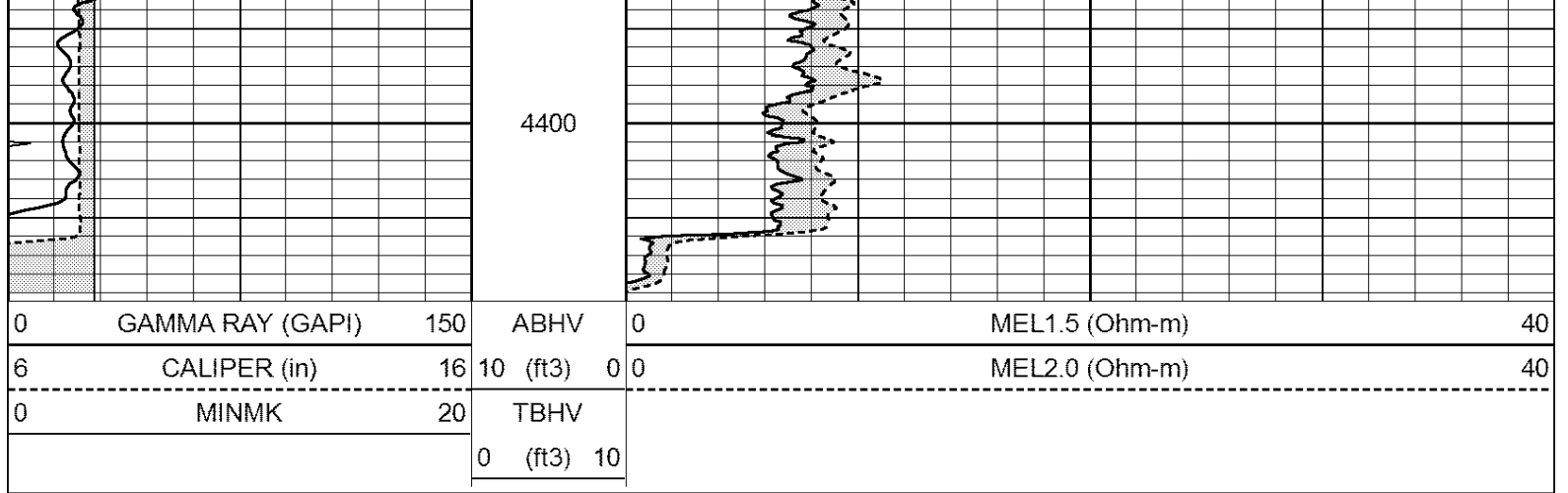


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REPEAT SECTION

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		





Calibration Report			
Database File:	007833ddn.db		
Dataset Pathname:	pass6.1		
Dataset Creation:	Mon Nov 21 14:49:34 2011 by Calc Open-Cased 110302		
MICRO Calibration Report			
Serial Number:	2		
Tool Model:	PROBE		
Performed:	Sat Nov 19 11:08:46 2011		
Caliper Calibration:	Gain=3.753	Offset=3.357	
	Low Cal	High Cal	
References	7.600	14.000	
Readings	1.130	2.835	
1.5" Calibration:	Gain=40.000	Offset=-1.500	
	Low Cal	High Cal	
References	0.000	20.000	
Readings	0.065	1.210	
2" Calibration:	Gain=55.000	Offset=0.000	
	Low Cal	High Cal	
References	0.000	20.000	
Readings	0.012	1.043	
Gamma Ray Calibration Report			
Serial Number:	GR3		
Tool Model:	OPEN		
Performed:	Mon Nov 21 13:36:18 2011		
Calibrator Value:	200.0	GAPI	
Background Reading:	3.0	cps	
Calibrator Reading:	186.0	cps	
Sensitivity:	0.9500	GAPI/cps	