



SUPERIOR
Hays,
Kansas

MICRO
LOG

Company		DOWNING - NELSON OIL CO. INC.	
Well		ELSIE HERMAN #1-32	
Field		WILDCAT	
County		RUSH	
State		KANSAS	
Location:		APL # : 15-165-21962-0000	
Permanent Datum		GROUND LEVEL	
Log Measured From		1820' FNL & 2180' FWL	
Drilling Measured From		SW - NE - SE - NW	
SEC 32		TWP 17S	
RGE 18W		RGE 18W	
Elevation		2087	
CDL/CNL		DIL/SONIC	
K.B. 2095		D.F. 2093	
G.L. 2087			
Date	2/22/12		
Run Number	TWO		
Depth Driller	3893		
Depth Logger	3893		
Bottom Logged Interval	3873		
Top Log Interval	3000		
Casing Driller	8 5/8"@1271'		
Casing Logger	1270		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 2,400 PPM	
Density / Viscosity	9.4/53		
pH / Fluid Loss	10.0/8.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.700@76F		
Rmt @ Meas. Temp	.525@76F		
Rmc @ Meas. Temp	.840@76F		
Source of Rmt / Rmc	MEASUREMENT		
Rm @ BHT	.463@115F		
Time Circulation Stopped	4 HOURS		
Time Logger on Bottom	5:00 P.M.		
Maximum Recorded Temperature	115F		
Equipment Number	4010		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	AL DOWNING		

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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
LACROSSE, KS., 1W. ON HWY 4 TO RR TRACKS, 1S., 1/2W., 1/2N. INTO

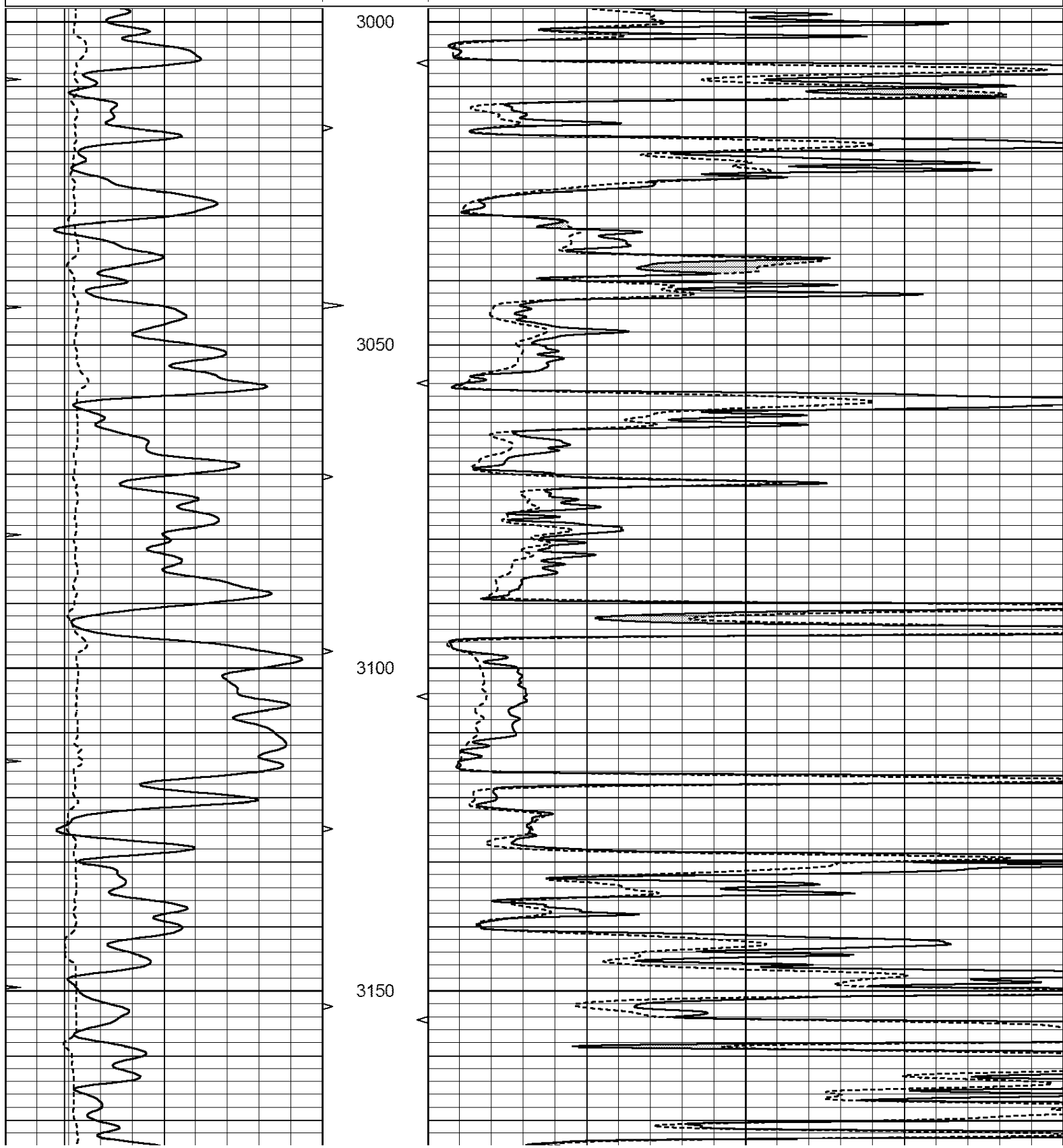


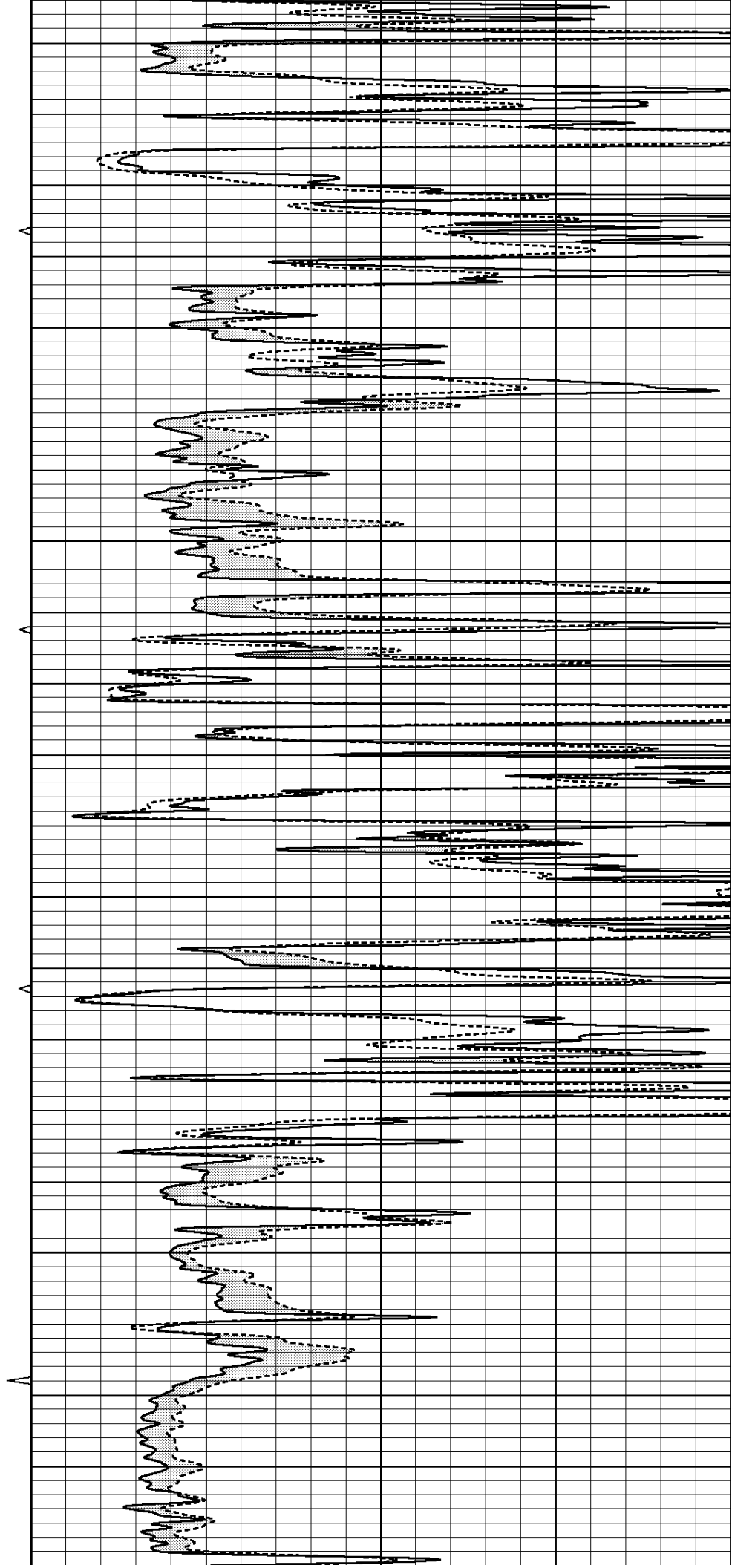
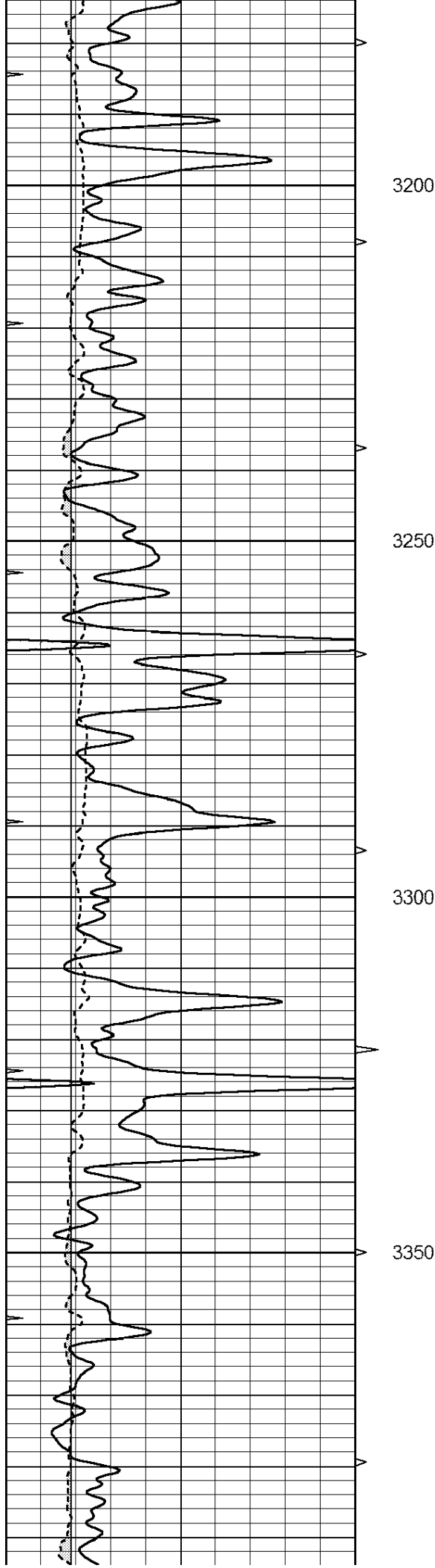
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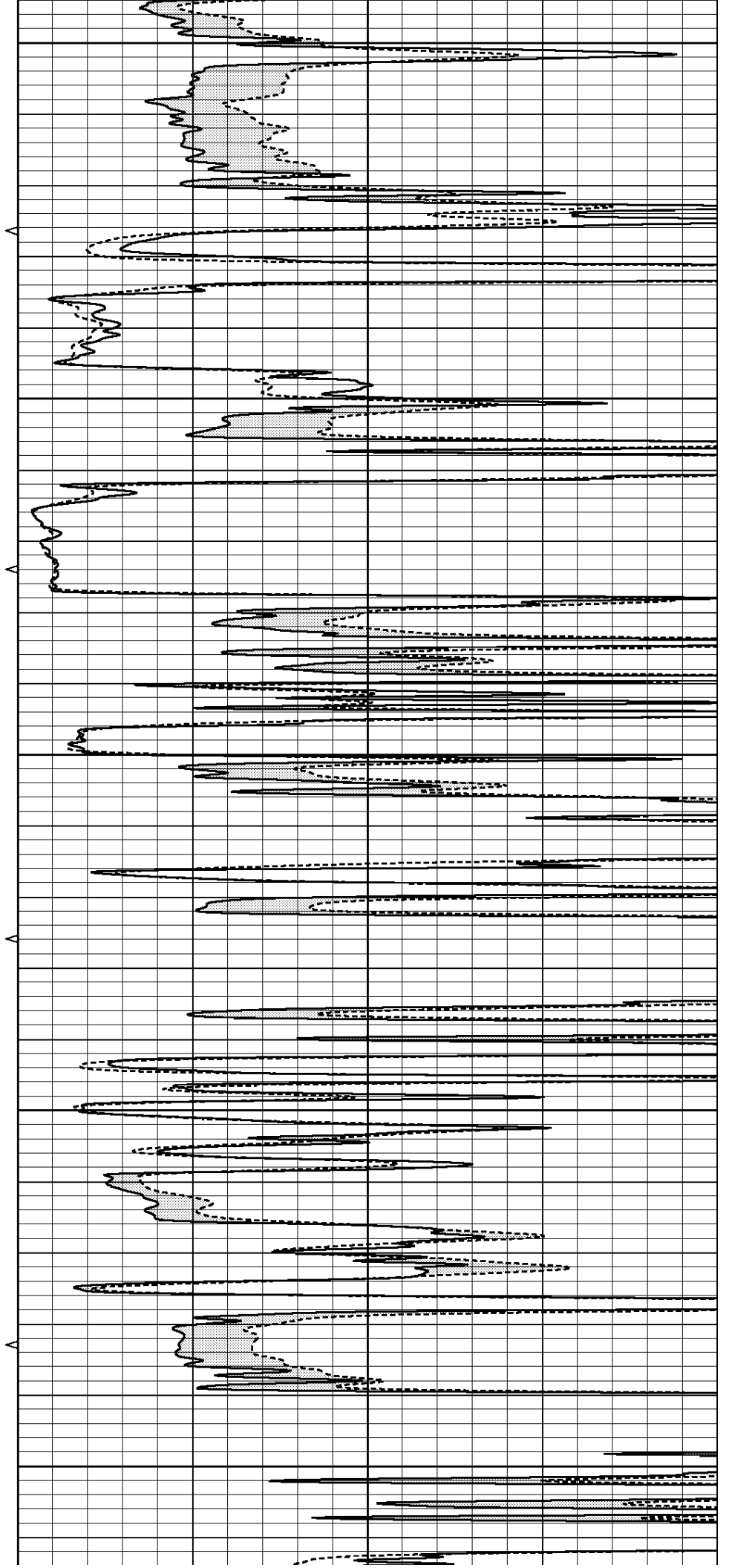
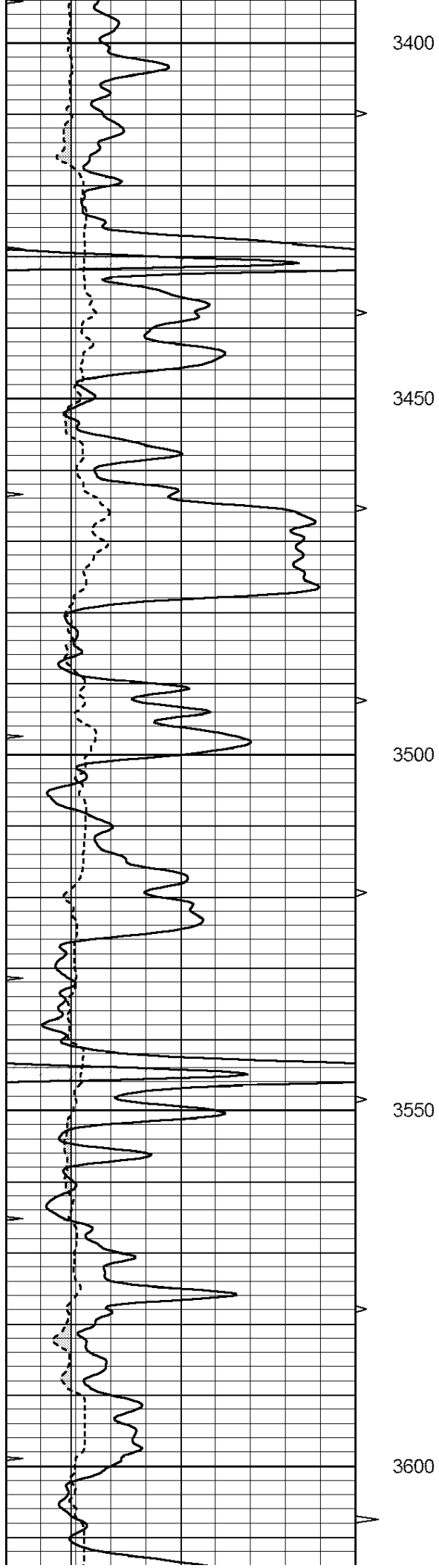
MAIN SECTION

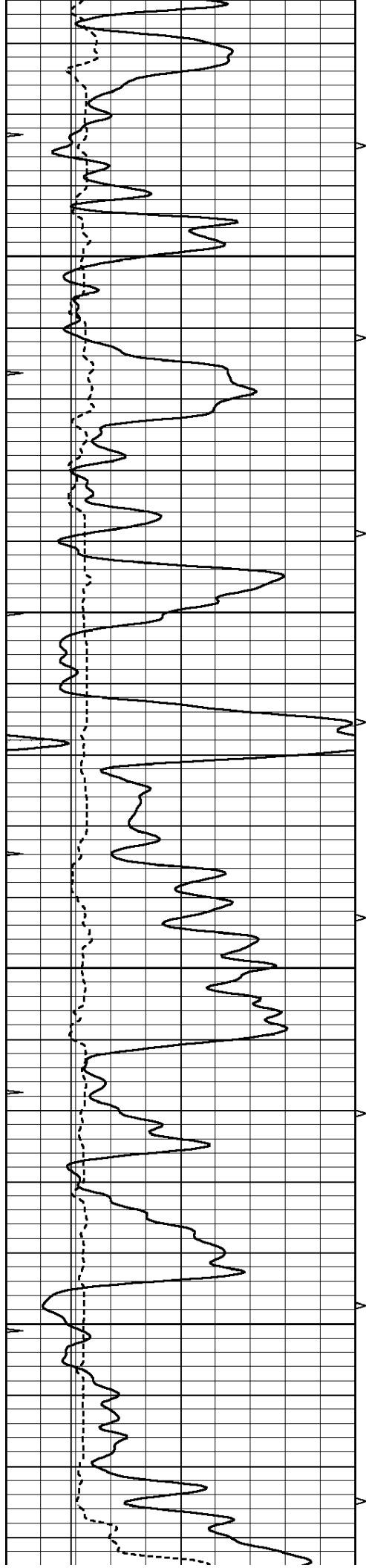
Database File: 408416ddn.db
Dataset Pathname: pass6.3
Presentation Format: micro
Dataset Creation: Wed Feb 22 20:06:25 2012
Charted by: Depth in Feet scaled 1:240

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		







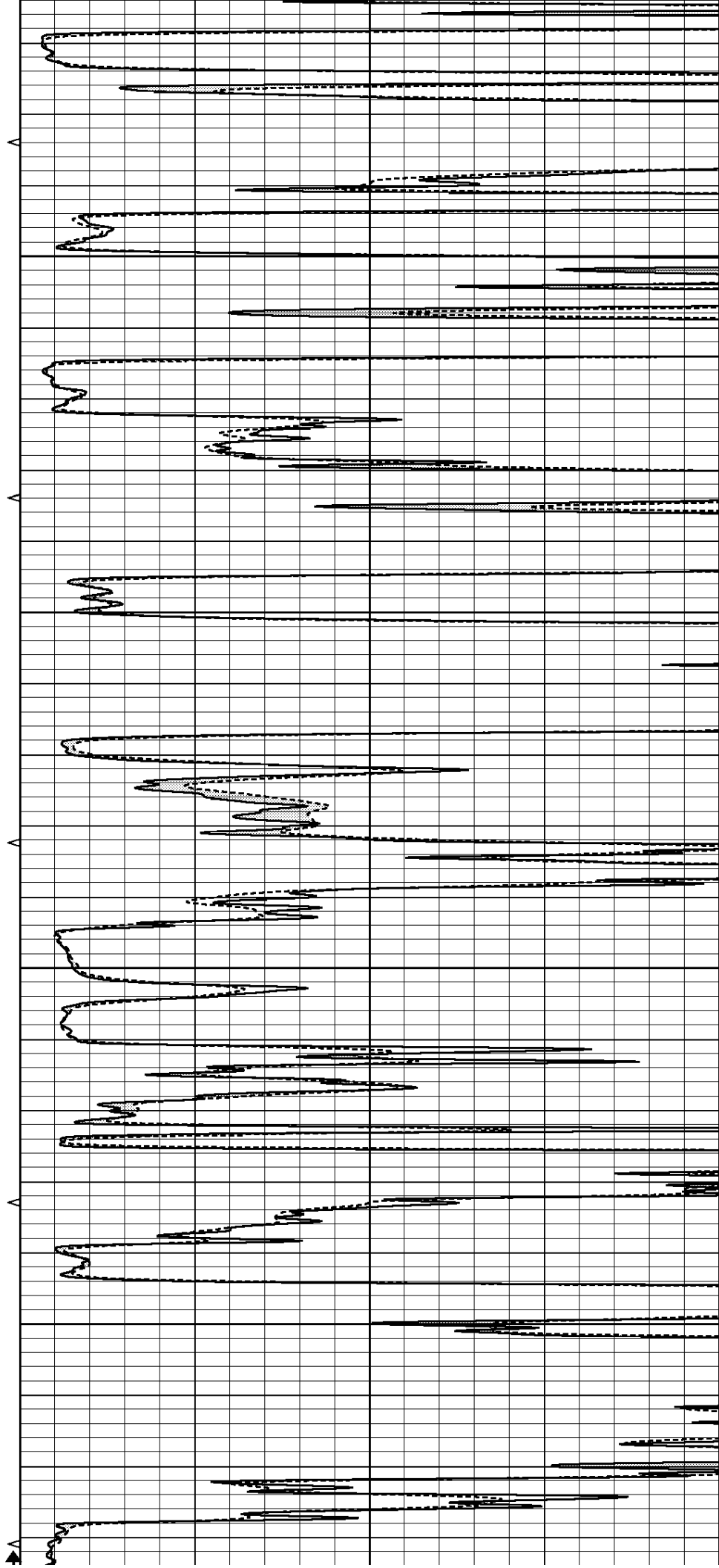


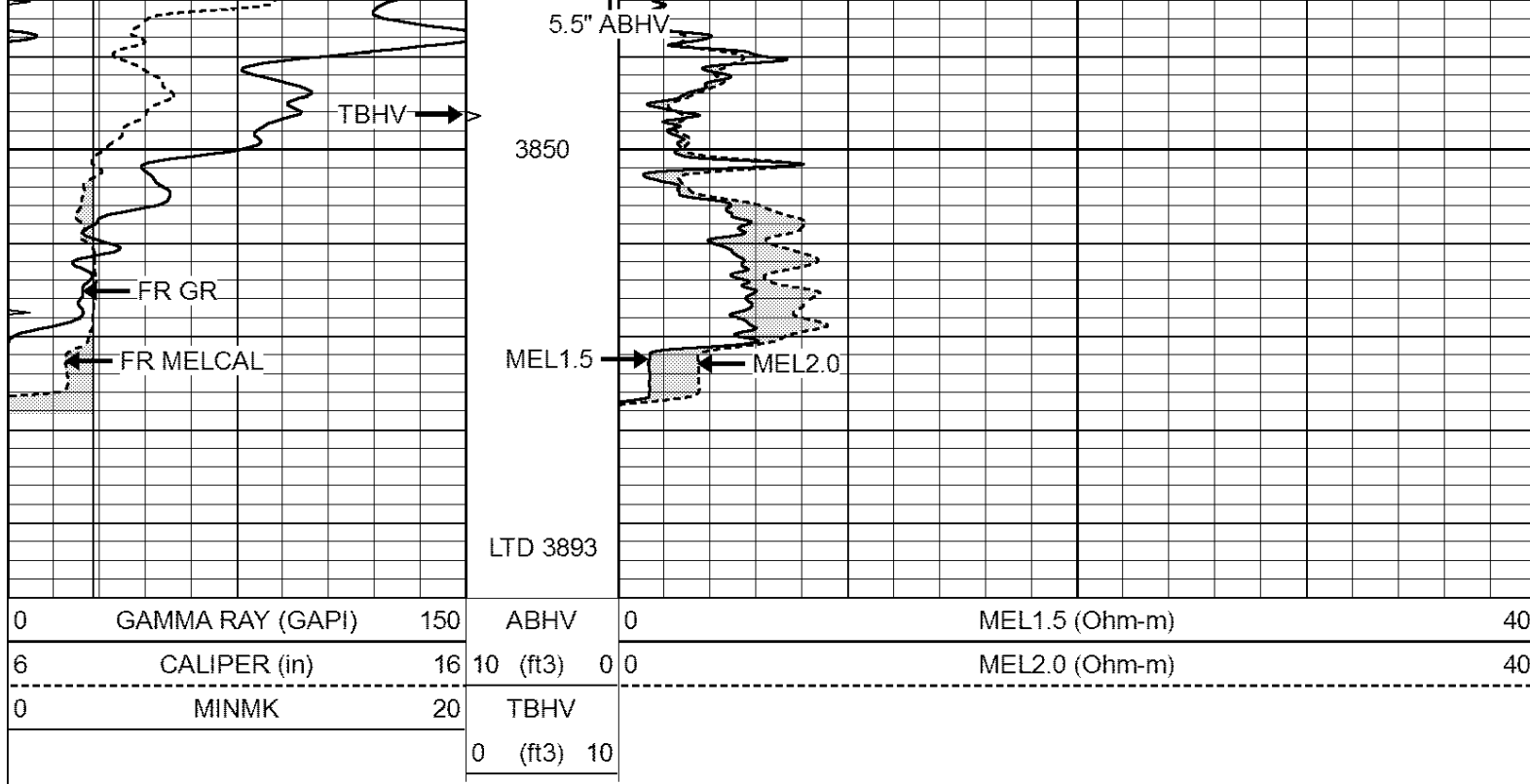
3650

3700

3750

3800



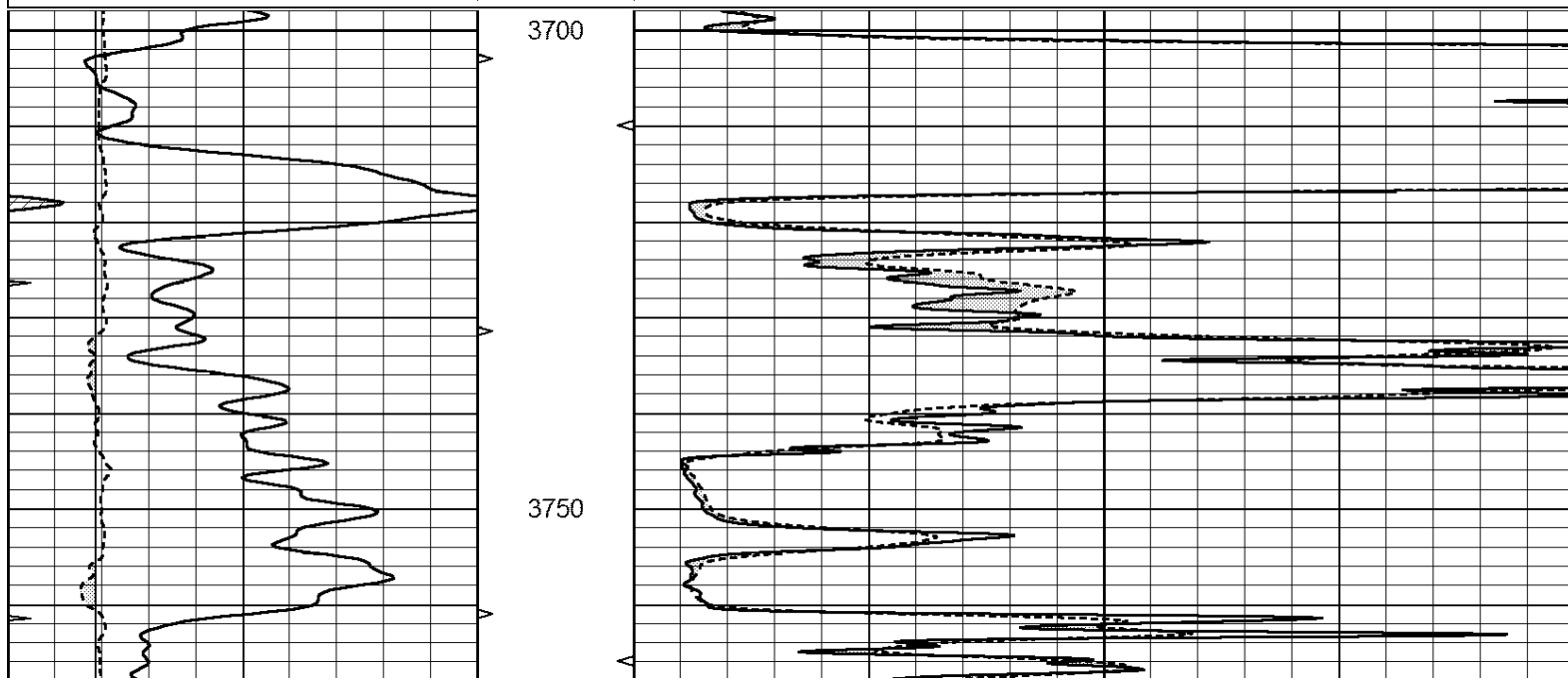


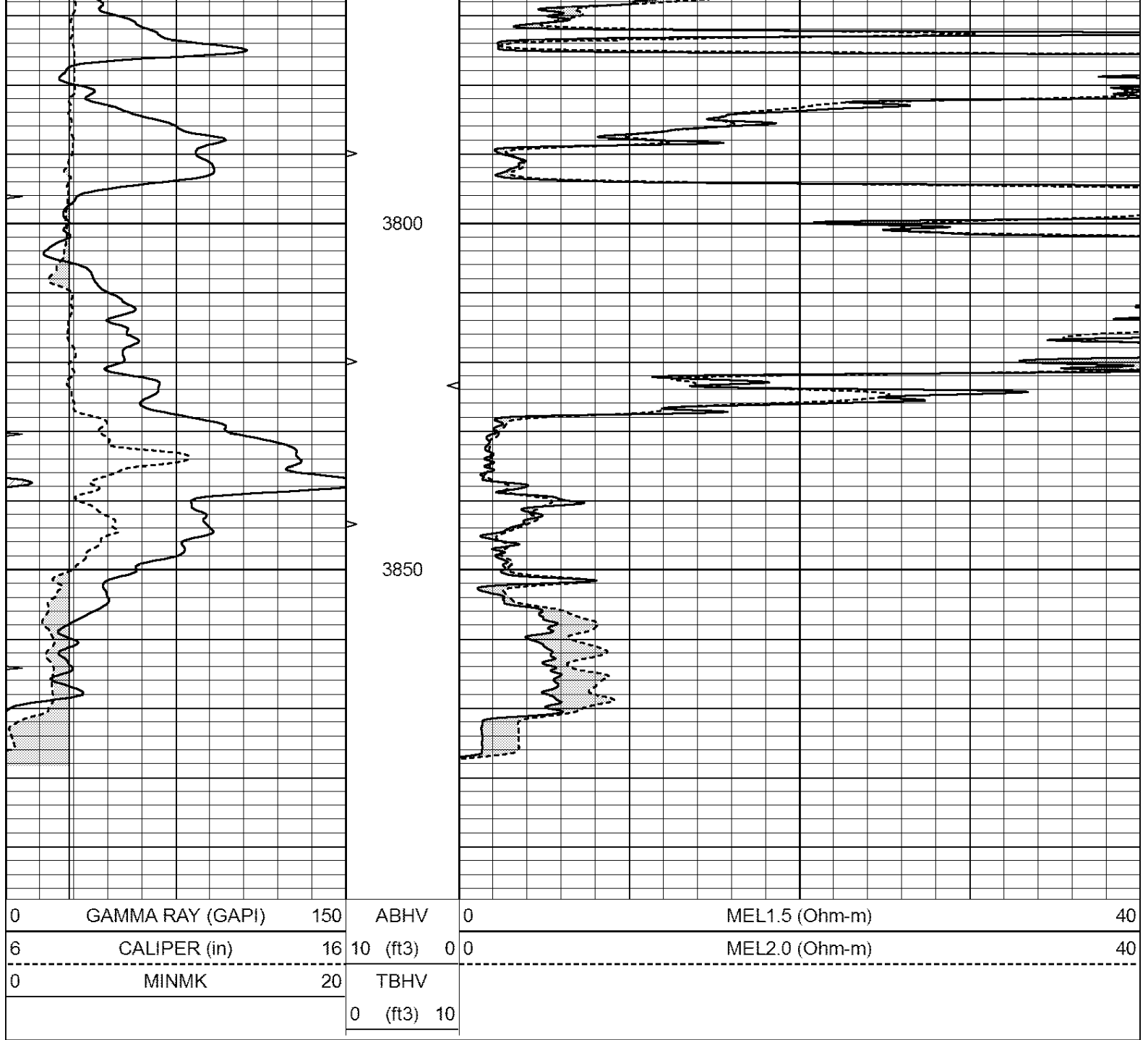
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REPEAT SECTION

Database File: 408416ddn.db
 Dataset Pathname: pass5.4
 Presentation Format: micro
 Dataset Creation: Wed Feb 22 20:00:03 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:	408416ddn.db		
Dataset Pathname:	pass6.3		
Dataset Creation:	Wed Feb 22 20:06:25 2012		
MICRO Calibration Report			
Serial Number:	MICRO5		
Tool Model:	PROBE		
Performed:	Fri Feb 10 23:27:35 2012		
Caliper Calibration:	Gain=2.984	Offset=-1.226	
References Readings	Low Cal	High Cal	
	8.000	14.500	
	3.092	5.270	
1.5" Calibration:	Gain=40.000	Offset=-0.600	
	Low Cal	High Cal	

References	0.000	20.000
Readings	-0.002	0.981
2" Calibration:	Gain=54.000	Offset=-1.000
	Low Cal	High Cal
References	0.000	20.000
Readings	0.002	0.898
Gamma Ray Calibration Report		
Serial Number:	GR4	
Tool Model:	OPEN	
Performed:	Wed Feb 22 19:19:16 2012	
Calibrator Value:	200.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	189.0	cps
Sensitivity:	2.2000	GAPI/cps