



**Casedhole
Solutions**

**MICRO
LOG**

Company DOWNING - NELSON OIL COMPANY
Well HOGAN FAMILY TRUST #1-21
Field WILDCAT
County PAWNEE
State KANSAS

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Field WILDCAT
County PAWNEE State KANSAS

Location: API # : 15-145-21807-0000
564' FNL & 335' FWL
SE - NW - NW - NW
SEC 21 TWP 23S RGE 18W
Permanent Datum GROUND LEVEL Elevation 2113
Log Measured From KELLY BUSHING 8' A.G.L.
Drilling Measured From KELLY BUSHING
Other Services
CDL/CNL
DIL/SON
Elevation
K.B. 2121
D.F. 2119
G.L. 2113

Date	9/5/15		
Run Number	TWO		
Depth Driller	4460		
Depth Logger	4456		
Bottom Logged Interval	4440		
Top Log Interval	3500		
Casing Driller	8 5/8" @ 1189'		
Casing Logger	1190		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 9,000 PPM	
Density / Viscosity	9.2/48		
pH / Fluid Loss	9.0/9.6		
Source of Sample	FLOWLINE		
Rin @ Meas. Temp	.400 @ 82F		
Rinf @ Meas. Temp	.300 @ 82F		
Rinc @ Meas. Temp	.480 @ 82F		
Source of Rinf / Rinc	MEASUREMENT		
Rin @ BHT	.273 @ 120F		
Time Circulation Stopped	4.5 HOURS		
Time Logger on Bottom	8:00 A.M.		
Maximum Recorded Temperature	120F		
Equipment Number	4854		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	MARC 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 C & J ENERGY (CASED HOLE SOLUTIONS) HAYS, KANSAS (785) 628-6395
DIRECTIONS
(HWY 183 & 156 JUNCTION), 10S. ON HWY 183, 1/4E., S. INTO @MAILBOX

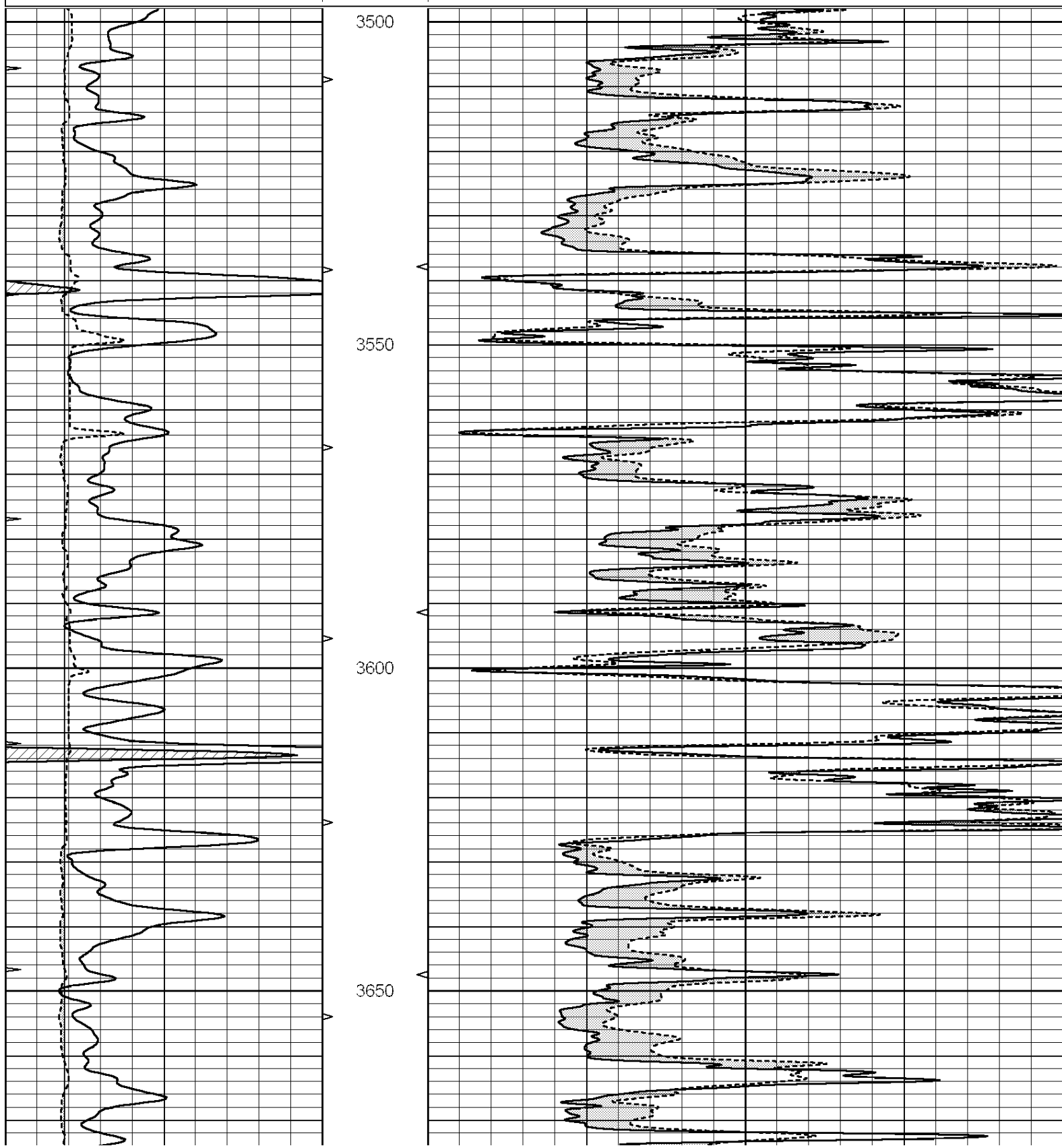


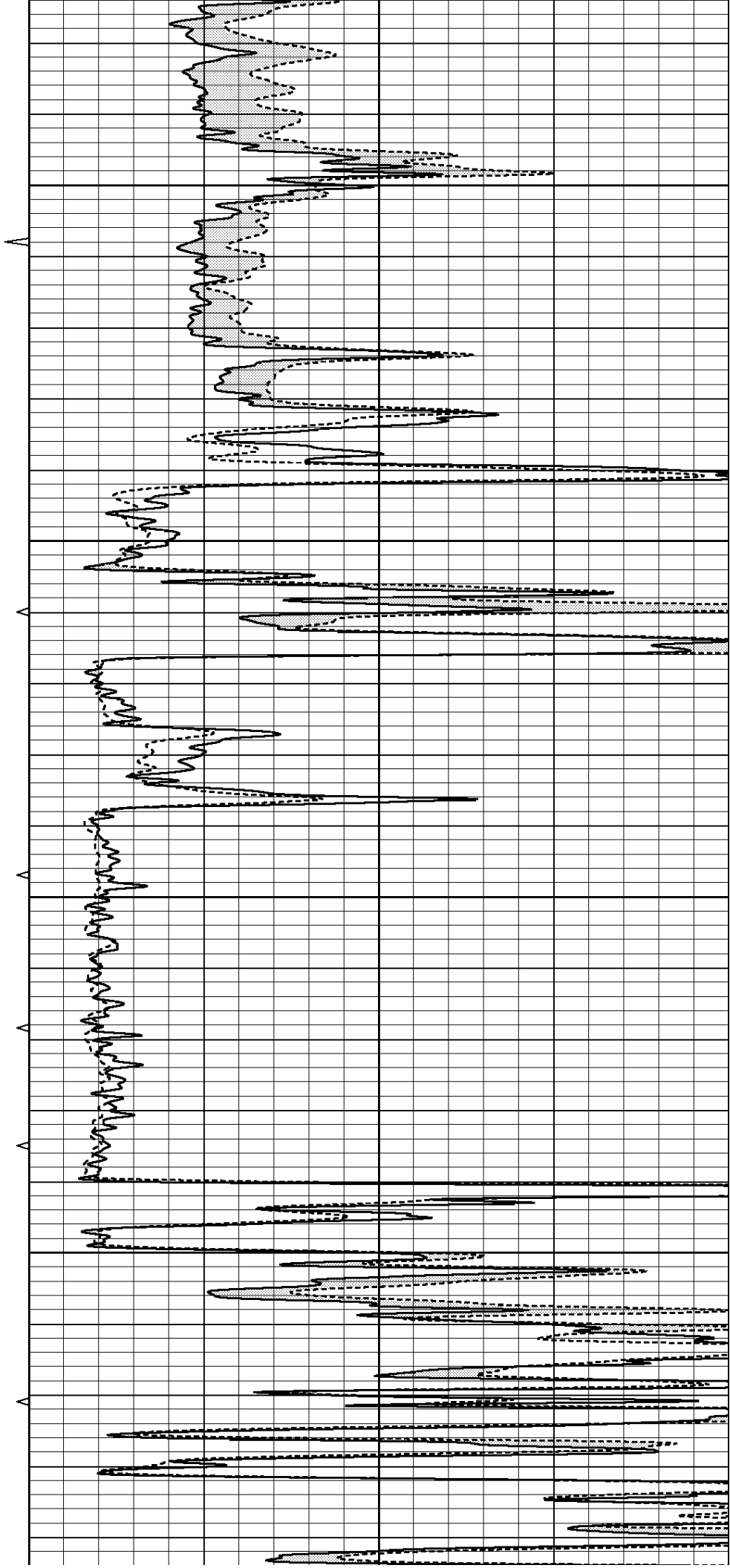
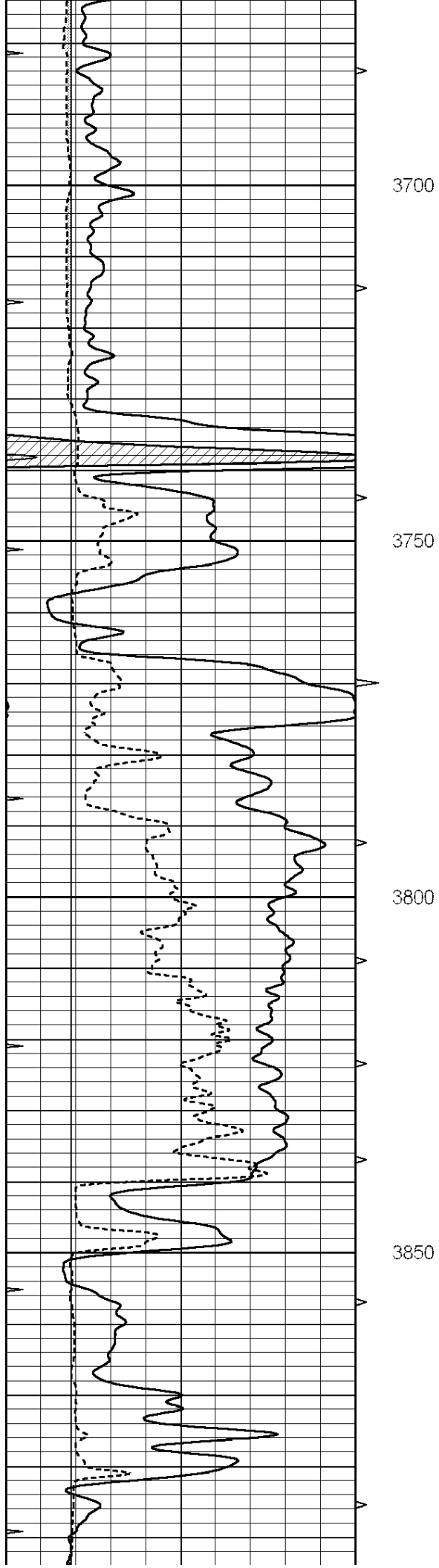
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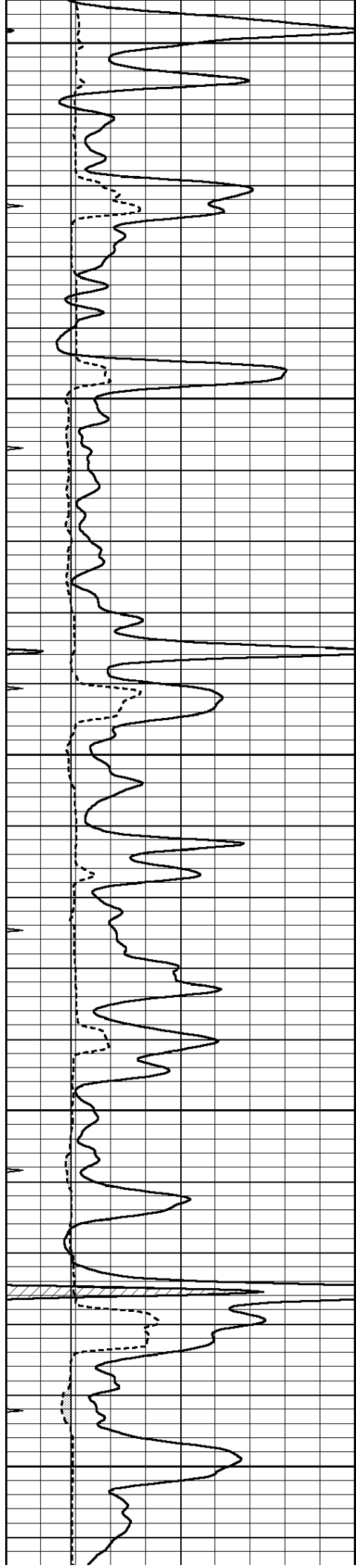
MAIN SECTION

Database File: 26638ddn.db
 Dataset Pathname: pass6.2
 Presentation Format: micro
 Dataset Creation: Sat Sep 05 10:58:16 2015 by Calc SOC 120430
 Charted by: Depth in Feet scaled 1:240

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







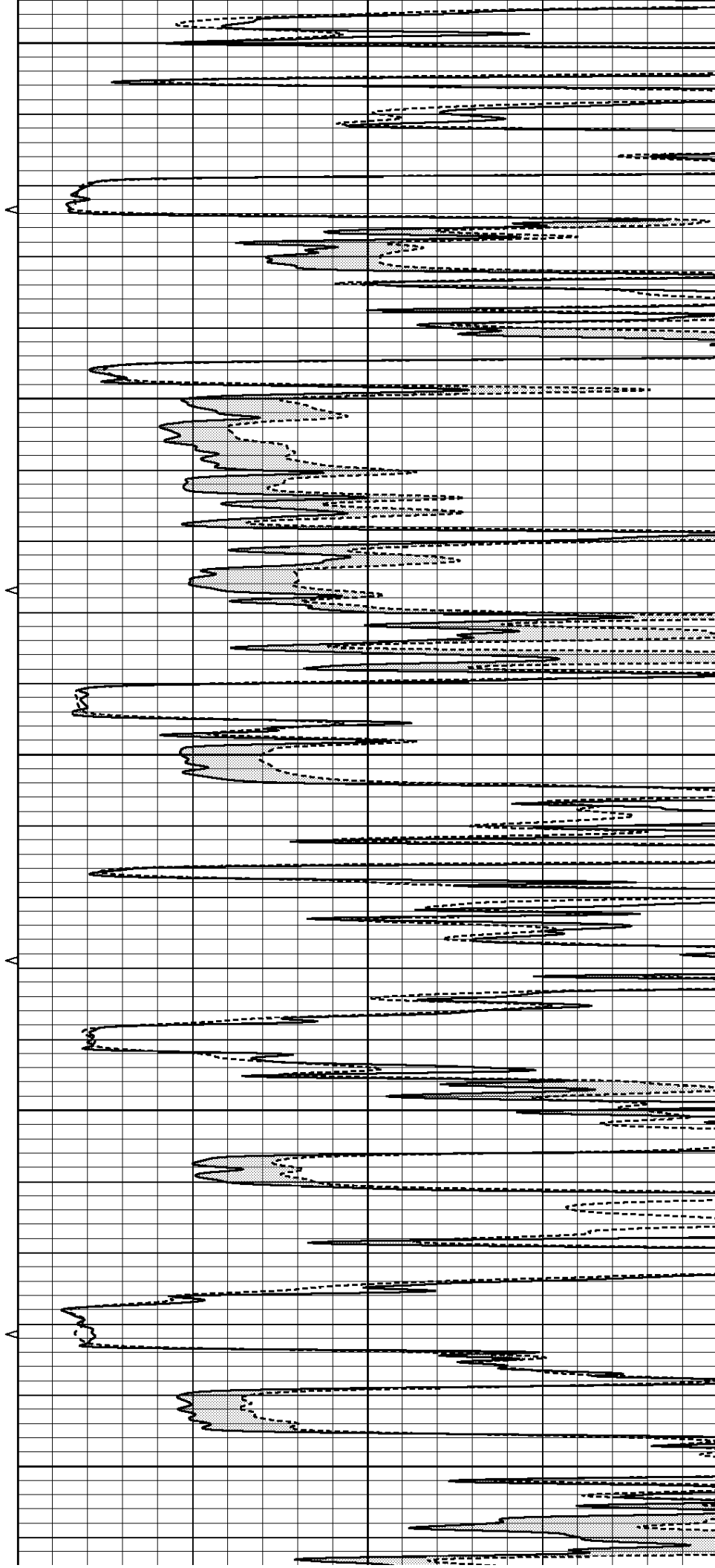
3900

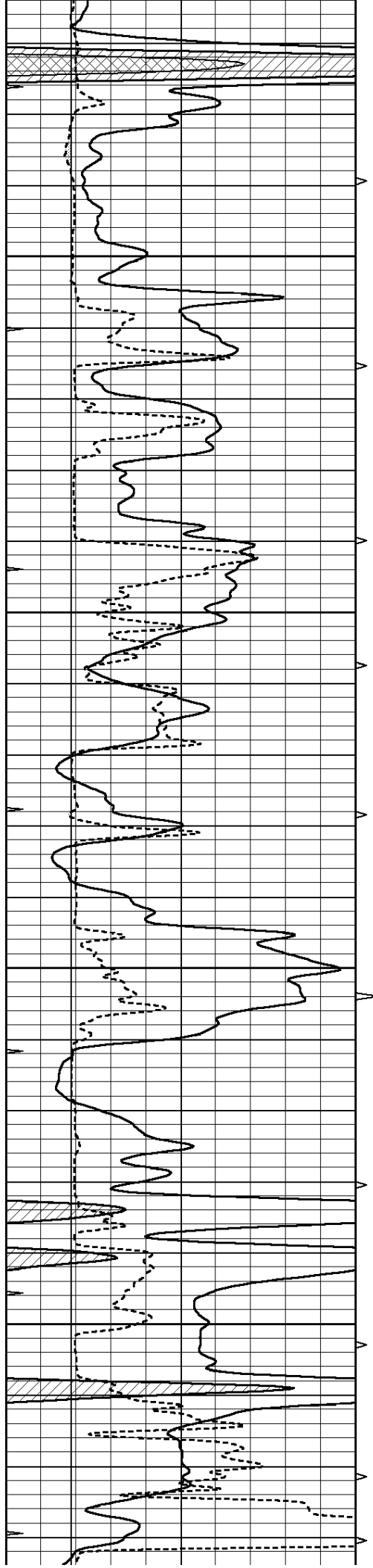
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4000

4050

4100



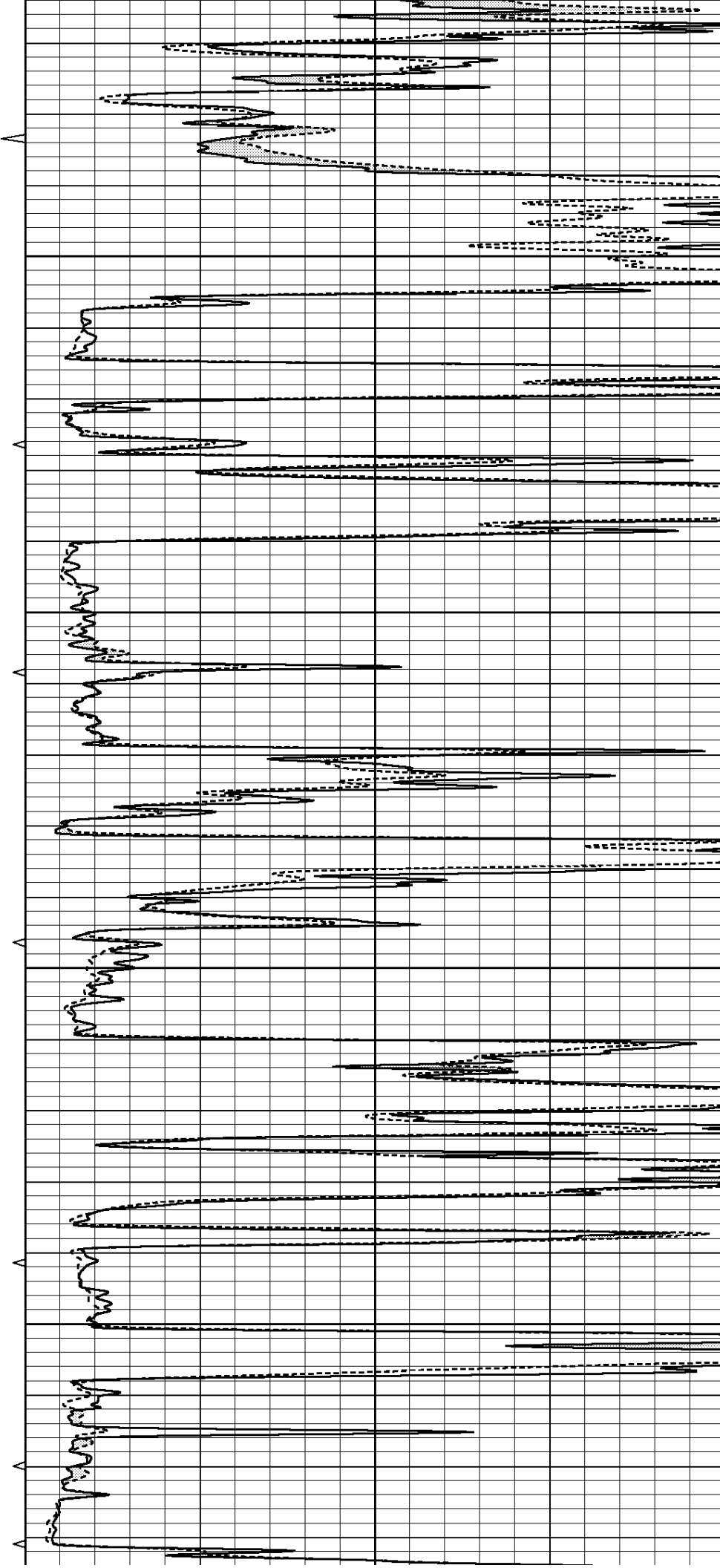


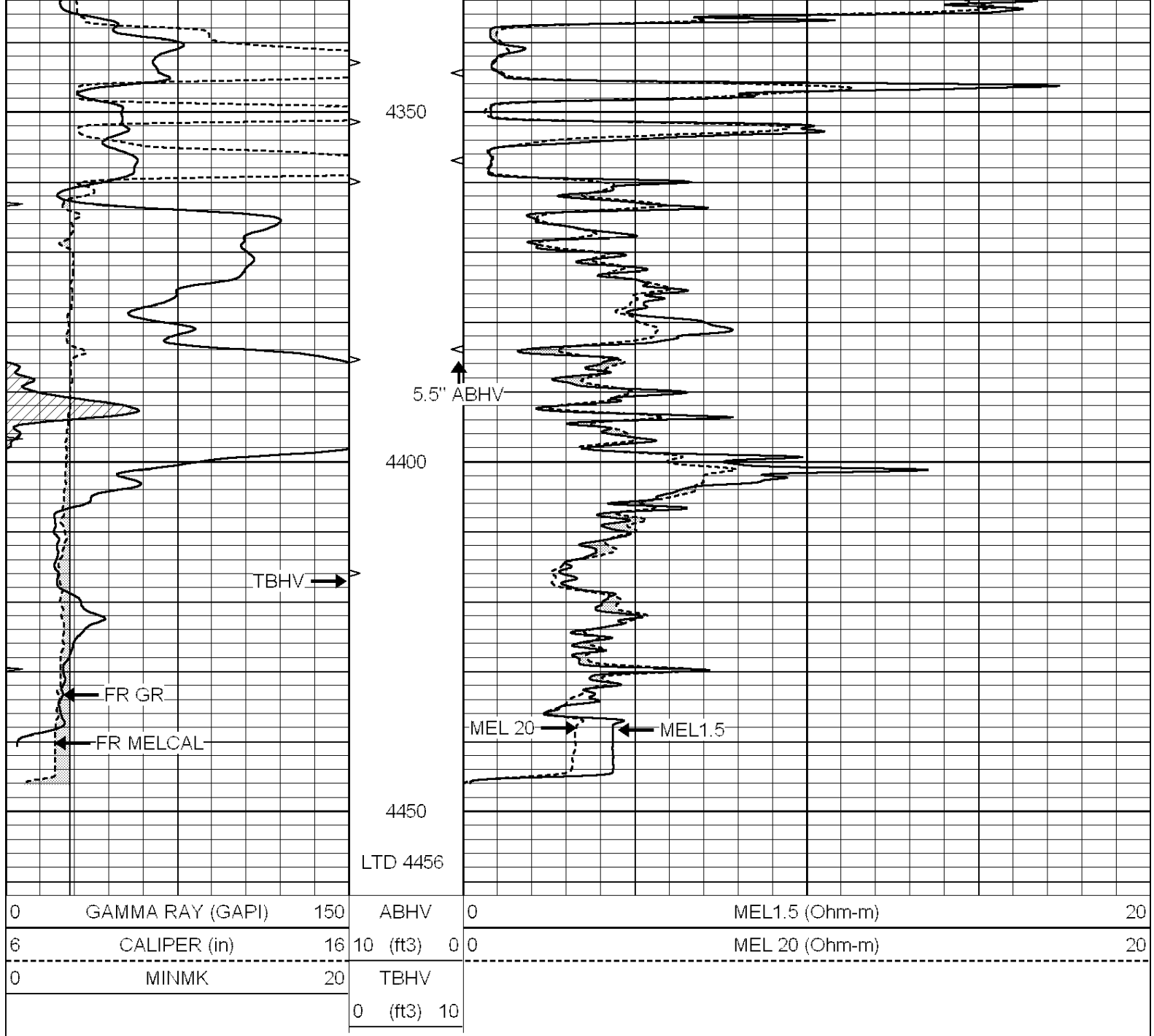
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4200

4250

4300

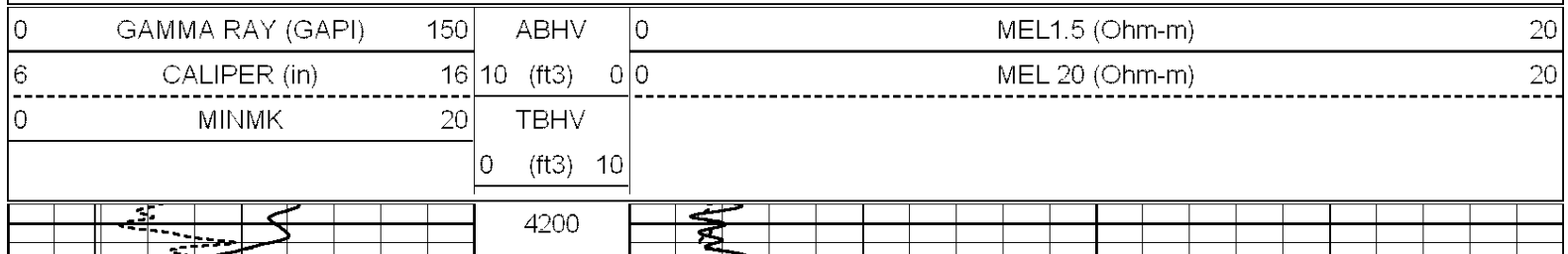


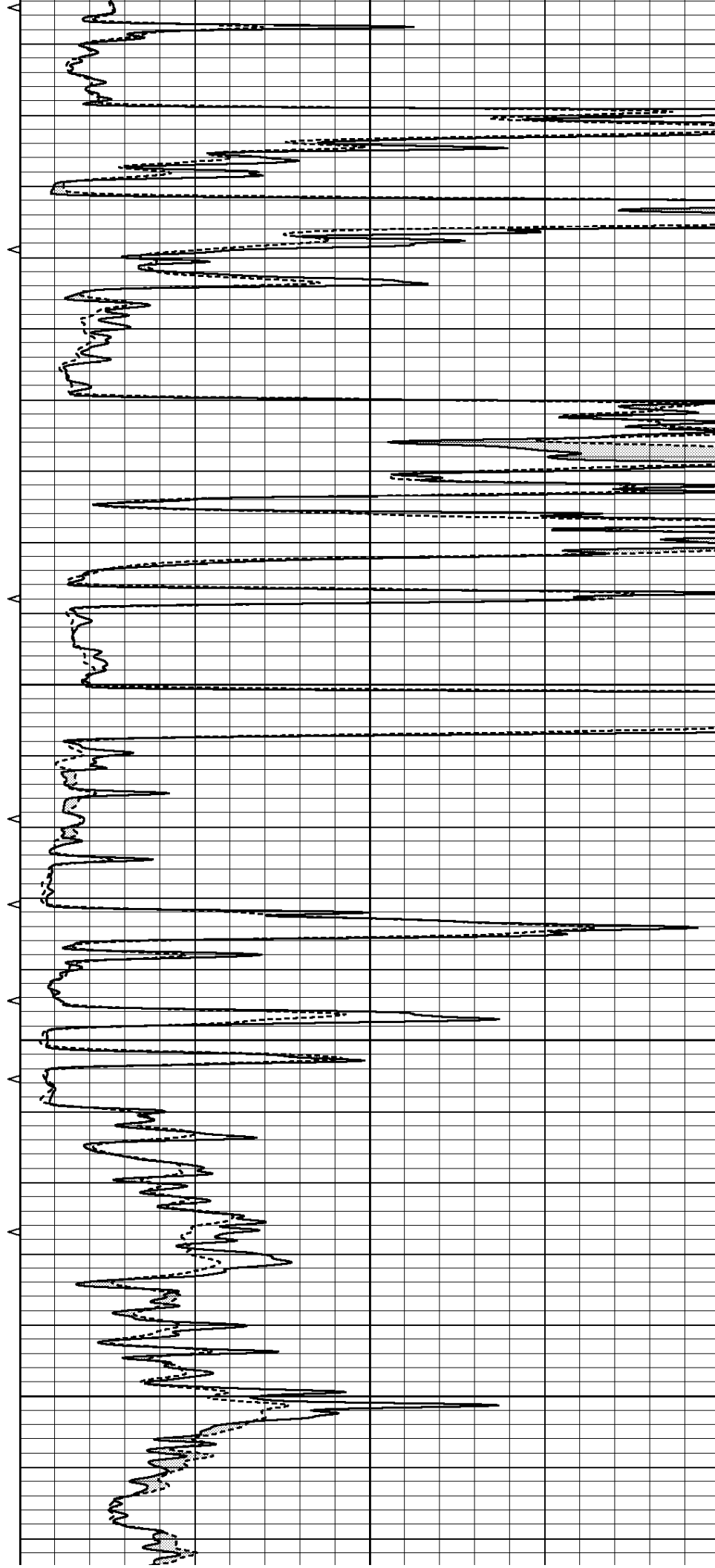
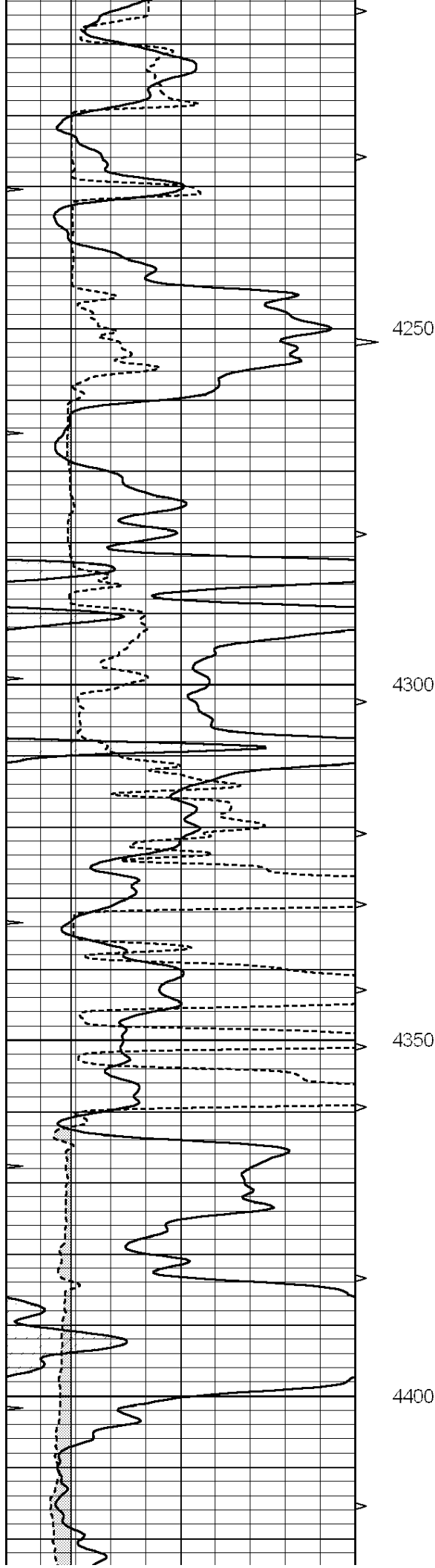


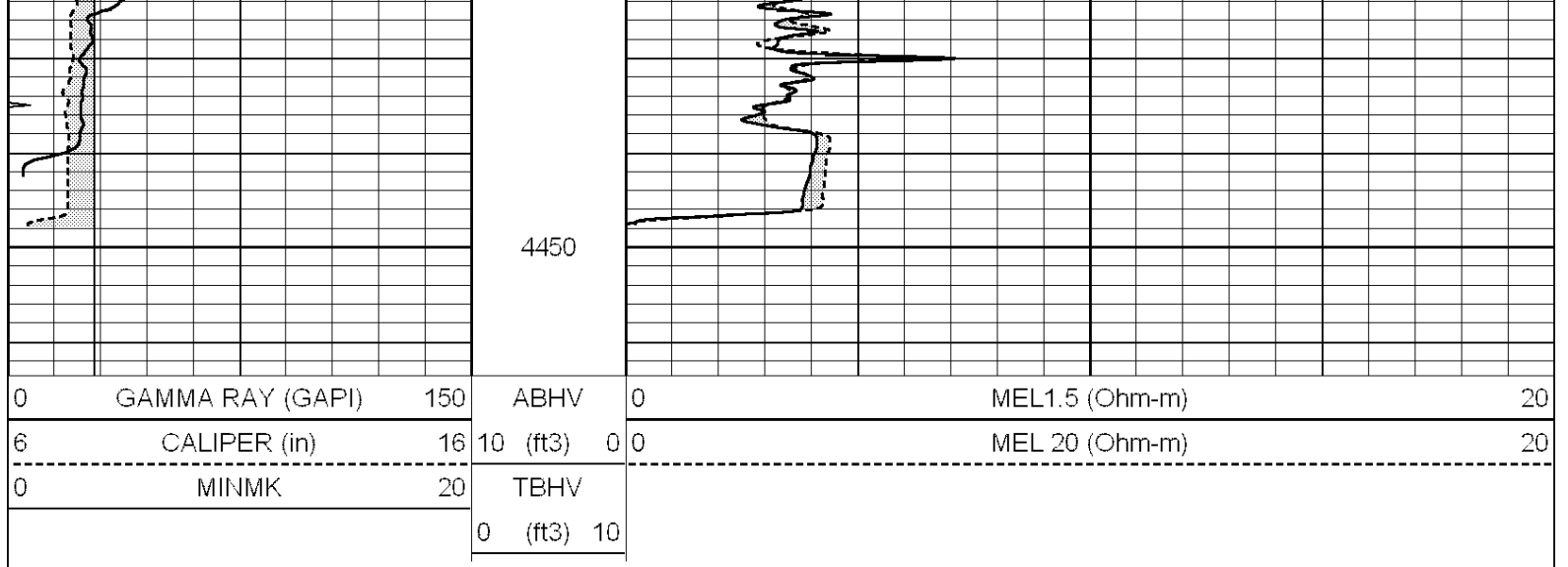
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REPEAT SECTION

Database File: 26638ddn.db
 Dataset Pathname: pass5.4
 Presentation Format: micro
 Dataset Creation: Sat Sep 05 10:25:44 2015 by Calc SOC 120430
 Charted by: Depth in Feet scaled 1:240







Calibration Report			
Database File:	26638ddn.db		
Dataset Pathname:	pass6.2		
Dataset Creation:	Sat Sep 05 10:58:16 2015 by Calc SOC 120430		
MICRO Calibration Report			
Serial Number:	070912		
Tool Model:	ProbeN		
Performed:	Sat Sep 05 09:31:28 2015		
Caliper Calibration:	Gain=2.575	Offset=6.541	
	Low Cal	High Cal	
References	7.800	15.000	
Readings	0.489	3.285	
1.5" Calibration:	Gain=28.000	Offset=0.200	
	Low Cal	High Cal	
References	0.000	20.000	
Readings	0.002	1.239	
2" Calibration:	Gain=50.000	Offset=0.000	
	Low Cal	High Cal	
References	0.000	20.000	
Readings	0.003	1.075	
Gamma Ray Calibration Report			
Serial Number:	110959		
Tool Model:	OPEN_GR		
Performed:	Thu Sep 03 19:02:55 2015		
Calibrator Value:	1.0	GAPI	
Background Reading:	0.0	cps	
Calibrator Reading:	1.0	cps	
Sensitivity:	0.2200	GAPI/cps	