



MICRO LOG

Company	DOWNING - NELSON OIL CO. INC.		
Well	RUDER #1-31		
Field	WILDCAT		
County	ELLIS		
State	KANSAS		
Company	DOWNING - NELSON OIL COMPANY, INC.		
Well	RUDER #1-31		
Field	WILDCAT		
County	ELLIS		
State	KANSAS		
Location:	API # : 15-051-26944-0000		Other Services CDL/CNL DIL
Permanent Datum	GROUND LEVEL		Elevation
Log Measured From	330' FNL & 330' FWL NW - NW - NW		2068
Drilling Measured From	SEC 31 TWP 14S RGE 18W KELLY BUSHING 8' A.G.L. KELLY BUSHING		K.B. 2076 D.F. 2074 G.L. 2068
Date	2/8/19		
Run Number	THREE		
Depth Driller	3711		
Depth Logger	3711		
Bottom Logged Interval	3709		
Top Log Interval	2800		
Casing Driller	8 5/8" @ 1320'		
Casing Logger	1320		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 9,500 PPM	
Density / Viscosity	9.3/50		
pH / Fluid Loss	10.0/8.0		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	.650 @ 60F		
Rmf @ Meas. Temp	.488 @ 60F		
Rmc @ Meas. Temp	.780 @ 60F		
Source of Rmf / Rmc	MEASUREMENT		
Rim @ BHT	.345 @ 113F		
Time Circulation Stopped	11 HOURS		
Time Logger on Bottom	7:30 P.M.		
Maximum Recorded Temperature	113F		
Equipment Number	922339		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	MARC DOWNING		

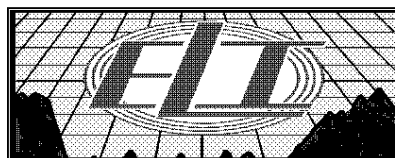
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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on 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 ELI WIRELINE HAYS, KANSAS (785) 628-6395
DIRECTIONS

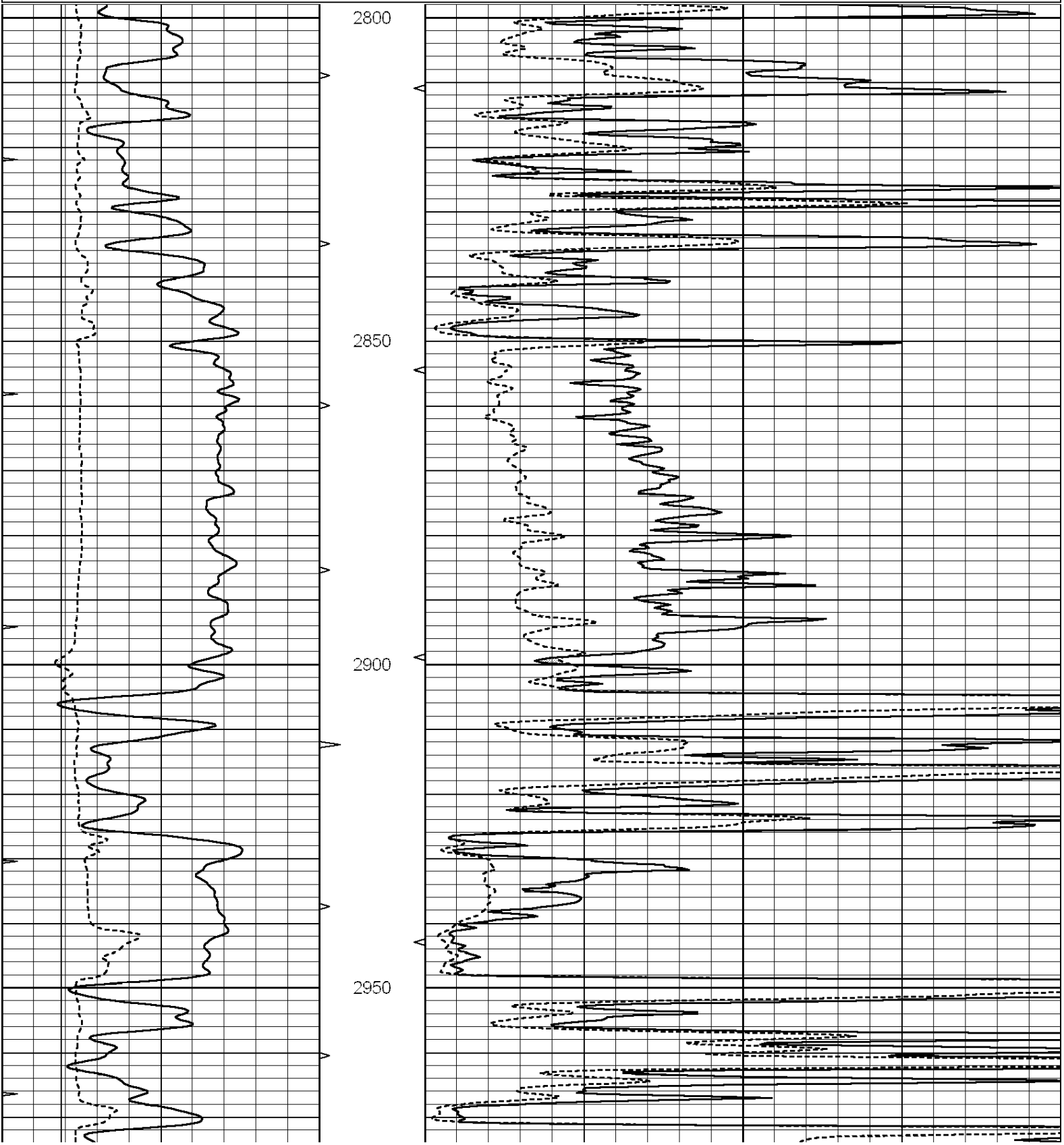
FHSU RODEO ARENA (230TH & GOLF COURSE RD.) 5S. TO "BUTTERFIELD TRAIL", 1W., 1/4S., E. INTO

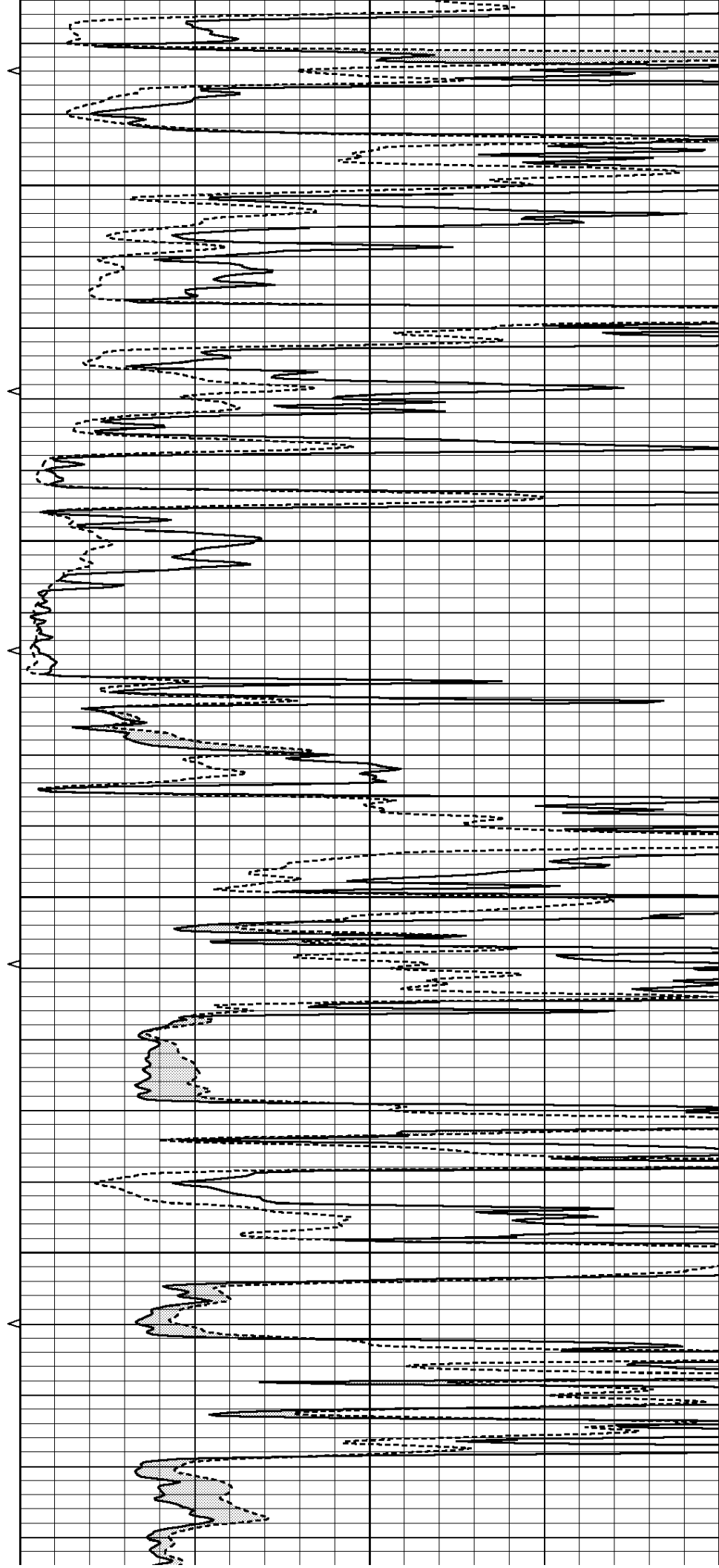
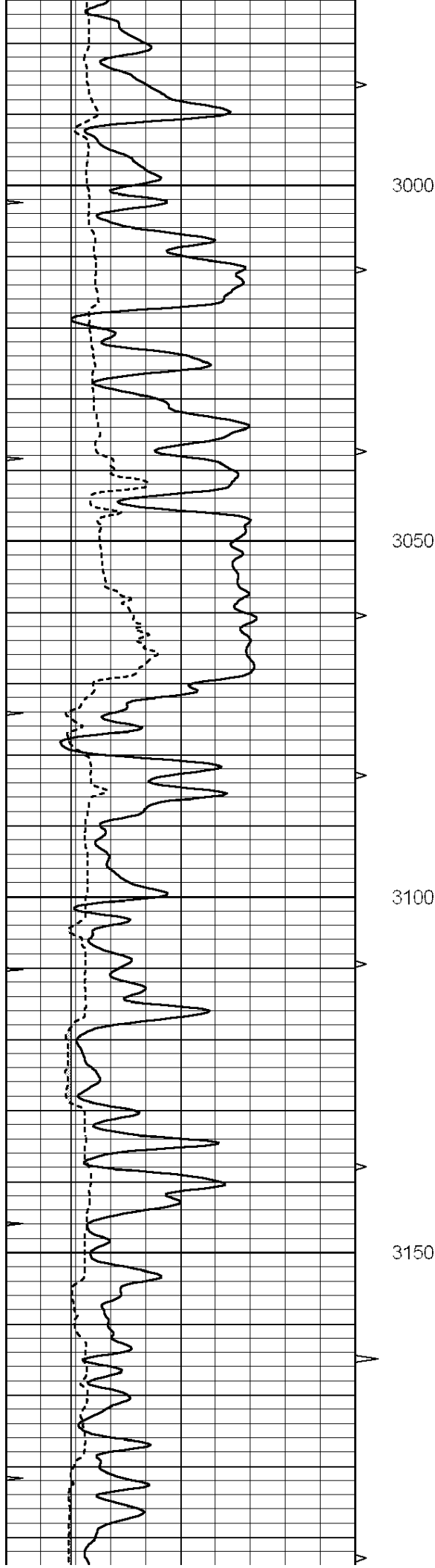


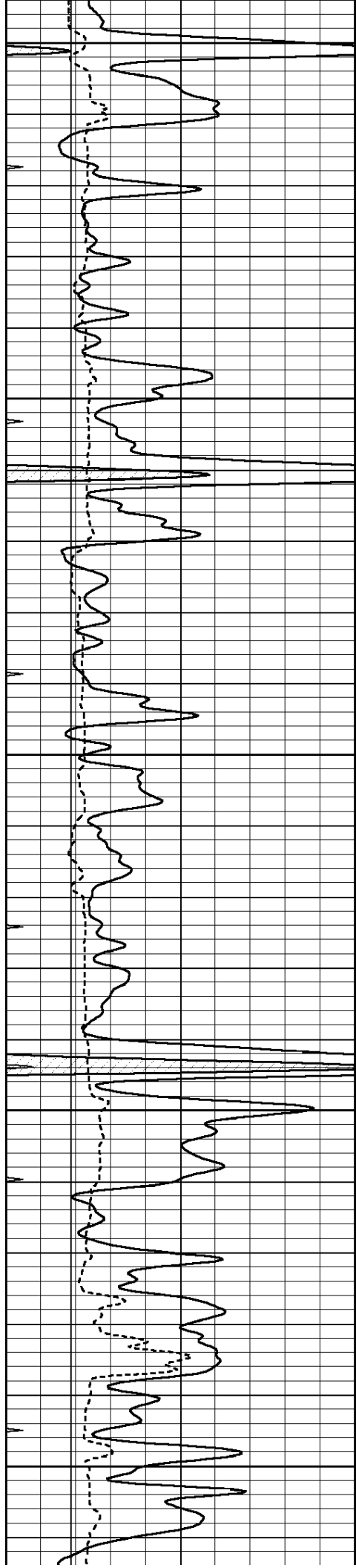
MAIN SECTION

Database File: 3338ddn.db
Dataset Pathname: pass10.3
Presentation Format: micro
Dataset Creation: Fri Feb 08 20:04:11 2019
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	MEL 20 (Ohm-m)	40
0	MINMK	20	TBHV			
			0 (ft3)	10		







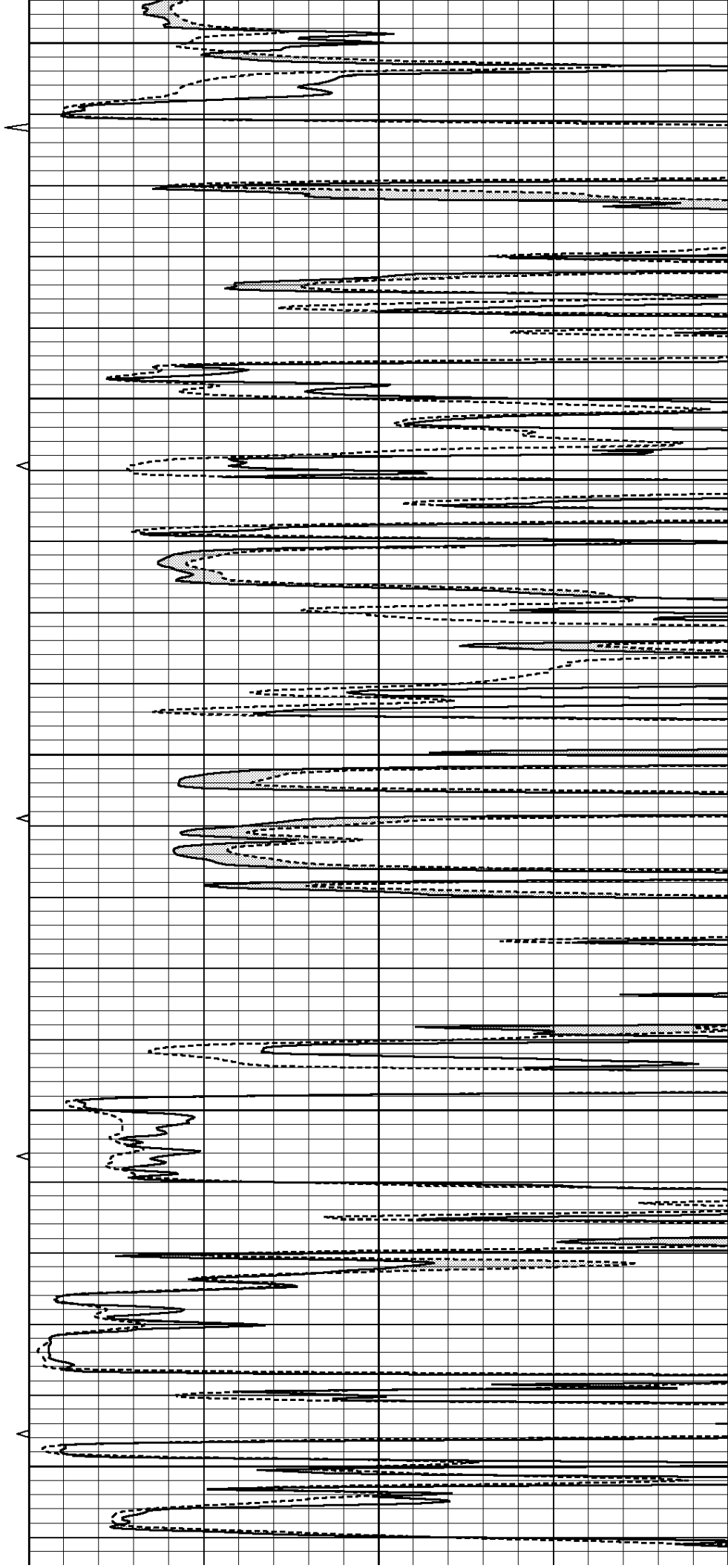
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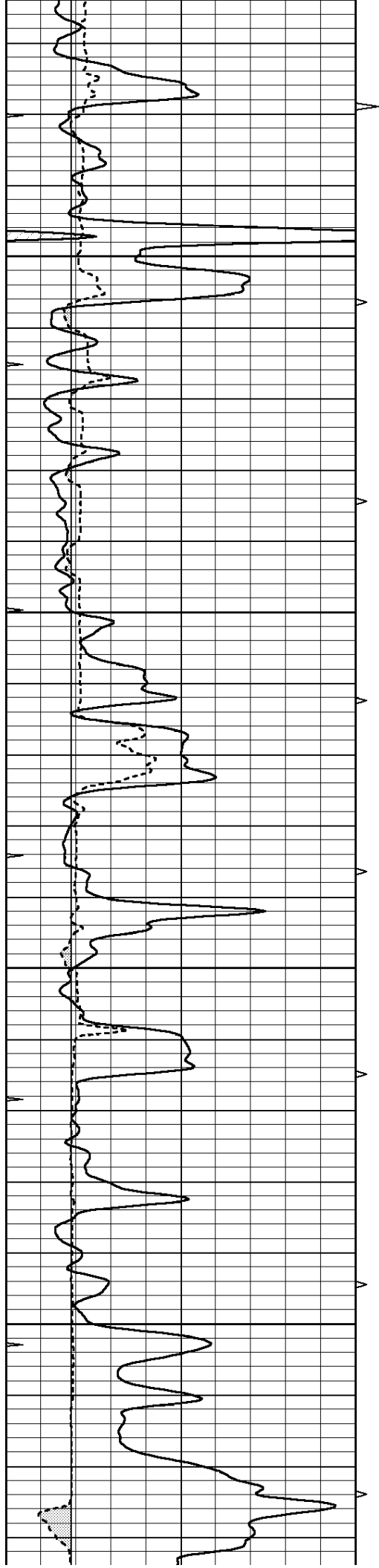
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3300

3350

3400



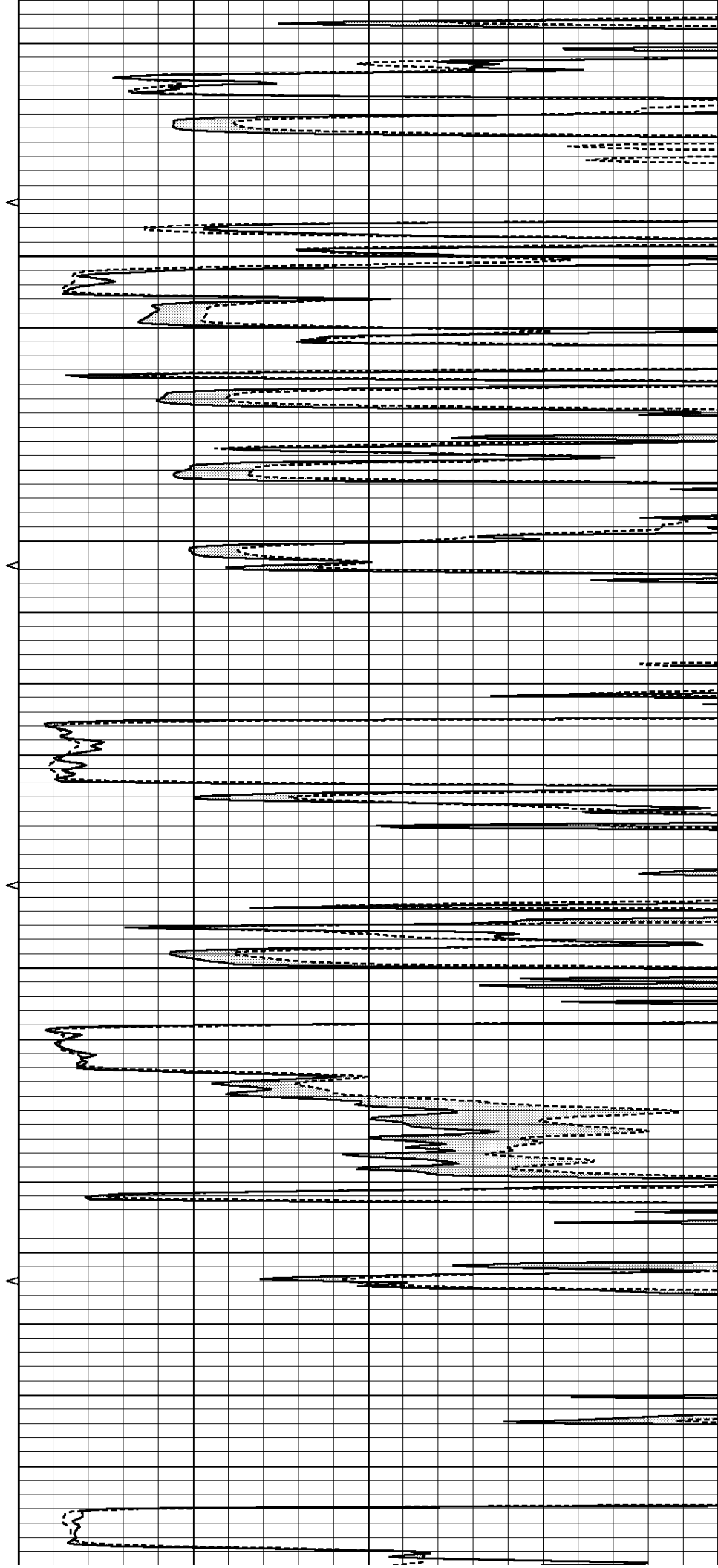


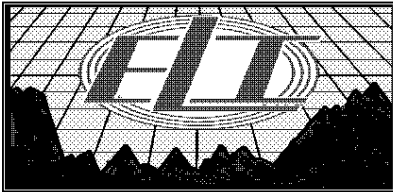
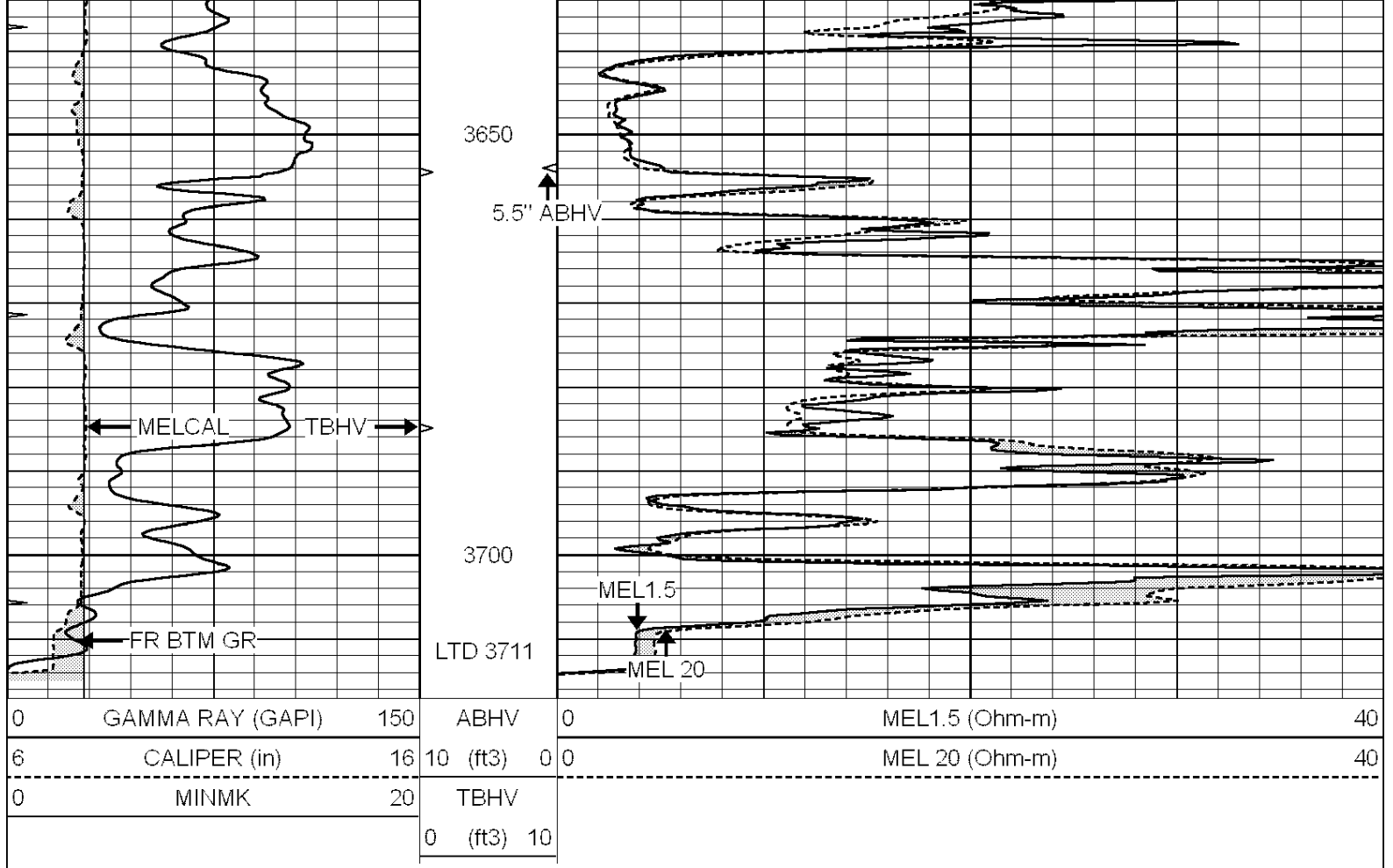
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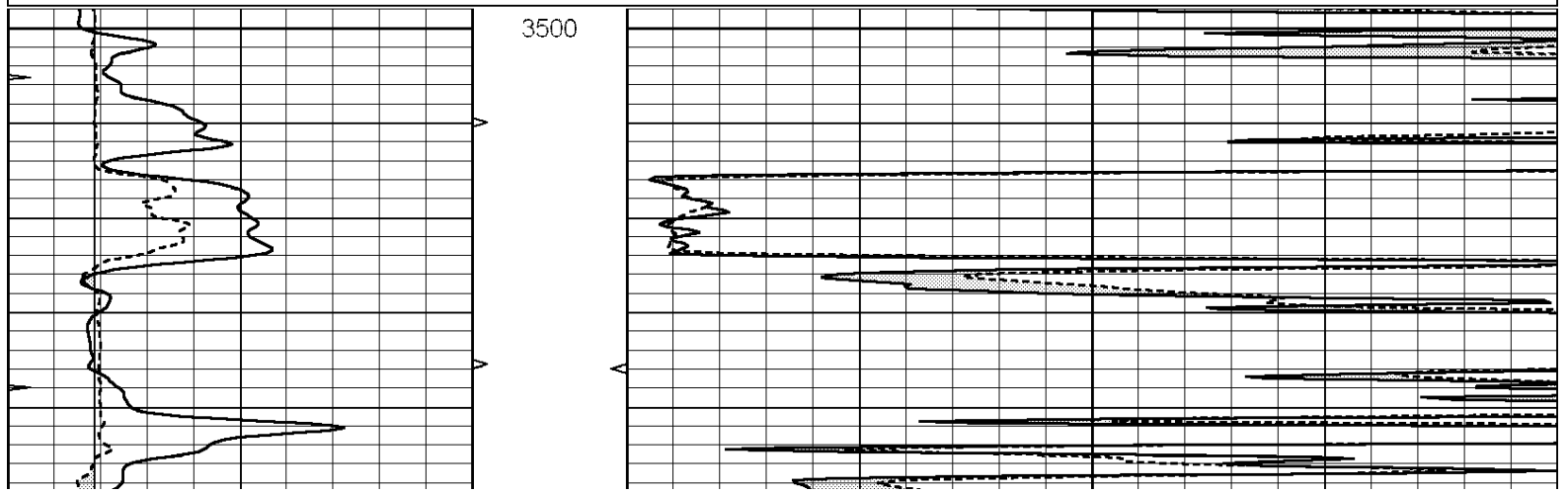
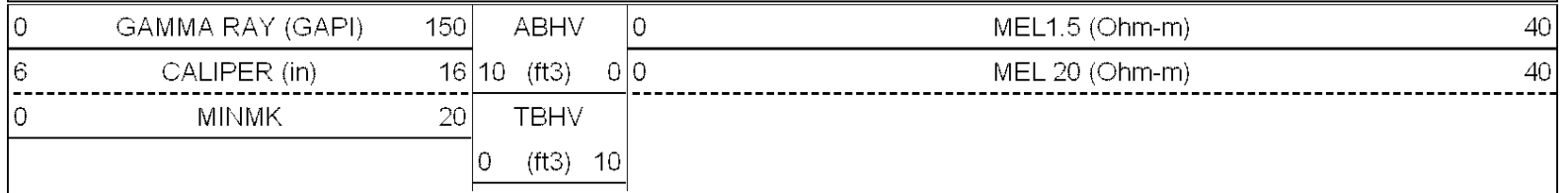
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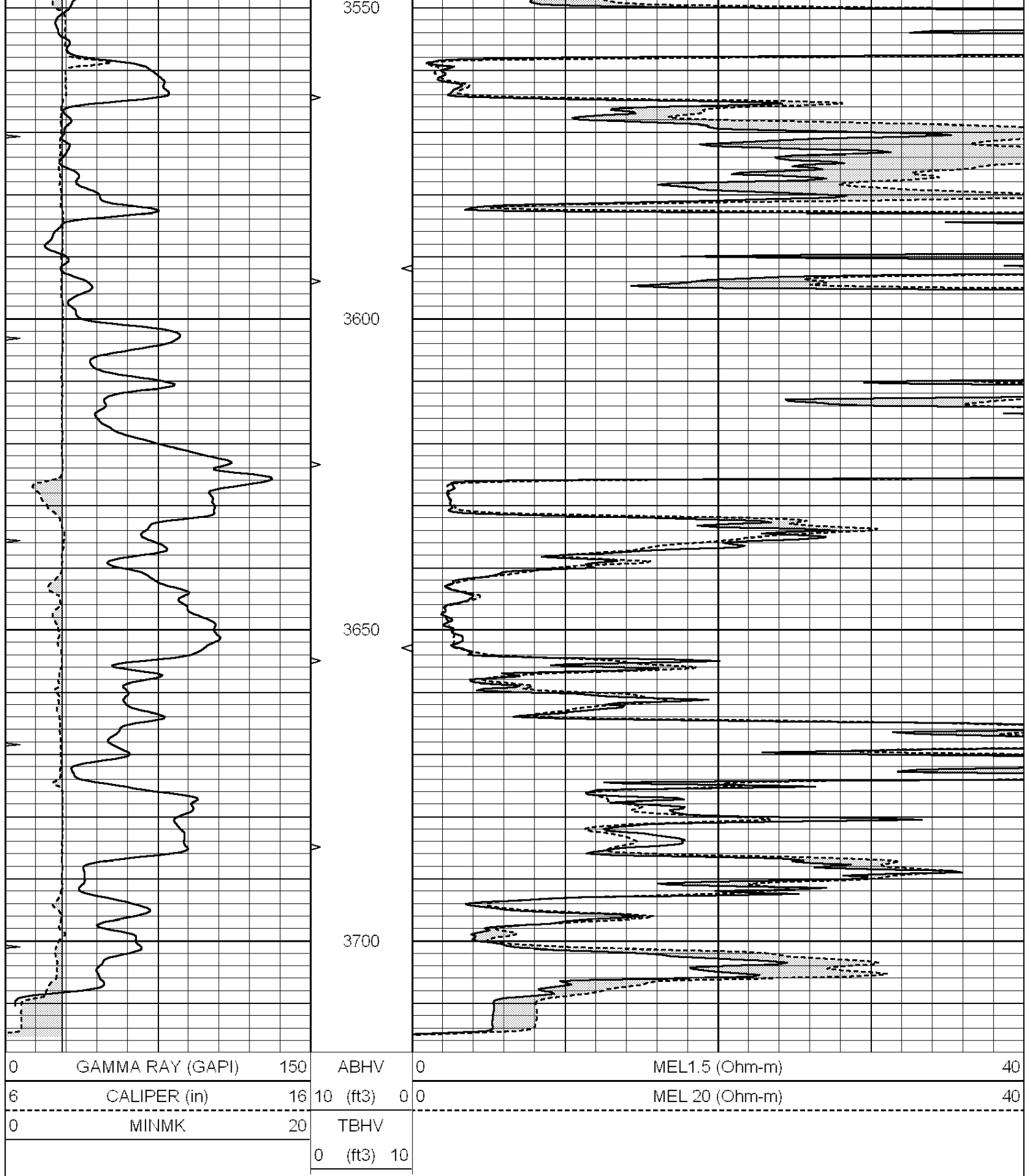




REPEAT SECTION

Database File: 3338ddn.db
 Dataset Pathname: pass9.3
 Presentation Format: micro
 Dataset Creation: Fri Feb 08 19:40:16 2019 by Calc SOC 120430
 Charted by: Depth in Feet scaled 1:240





Calibration Report

Database File: 3338ddn.db
Dataset Pathname: pass10.3
Dataset Creation: Fri Feb 08 20:04:11 2019

MICRO Calibration Report

Serial Number:	070911	
Tool Model:	ProbeN	
Performed:	Sun Feb 03 00:06:08 2019	
Caliper Calibration:	Gain=4.917	Offset=1.808
References	Low Cal	High Cal
Readings	8.200	20.000
	1.300	3.700
1.5" Calibration:	Gain=60.000	Offset=-2.300
References	Low Cal	High Cal
Readings	0.000	20.000
	0.001	1.240
2" Calibration:	Gain=66.000	Offset=-2.500
References	Low Cal	High Cal
Readings	0.000	20.000
	0.001	1.076
Gamma Ray Calibration Report		
Serial Number:	070559	
Tool Model:	OPEN_GR	
Performed:	Tue Dec 18 20:50:11 2018	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.2300	GAPI/cps