

MICRO LOG

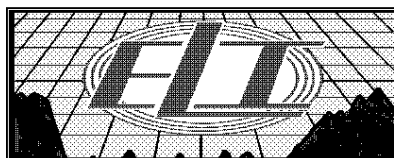
Company DOWNING - NELSON OIL COMPANY, INC.	
Well BOLLIG #2-17	
Field RIGA	
County TREGO	
State KANSAS	
Company DOWNING - NELSON OIL COMPANY, INC.	
Well BOLLIG #2-17	
Field RIGA	
County TREGO	
State KANSAS	
Location: 1537' FSL & 1722' FEL	API # : 15-195-23025-0000
SEC 17 TWP 13S RGE 21W	Other Services CDL/CNL DIL
Permanent Datum GROUND LEVEL	Elevation 2191
Log Measured From KELLY BUSHING 8' A.G.L.	
Drilling Measured From KELLY BUSHING	Elevation K.B. 2199 D.F. 2197 G.L. 2191
Date 7/18/17	
Run Number TWO	
Depth Driller 3970	
Depth Logger 3970	
Bottom Logged Interval 3968	
Top Log Interval 3000	
Casing Driller 8 5/8"@221'	
Casing Logger 222	
Bit Size 7 7/8"	
Type Fluid in Hole CHEMICAL MUD	CHLORIDES 5,000 PPM
Density / Viscosity 8.9/53	
pH / Fluid Loss 9.5/9.2	
Source of Sample FLOWLINE	
Rim @ Meas. Temp .500@94F	
Rmf @ Meas. Temp .375@94F	
Rmc @ Meas. Temp .600@94F	
Source of Rmf / Rmc MEASUREMENT	
Rim @ BHT .405@116F	
Time Circulation Stopped 10 HOURS	
Time Logger on Bottom 10:45 P.M.	
Maximum Recorded Temperature 116F	
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

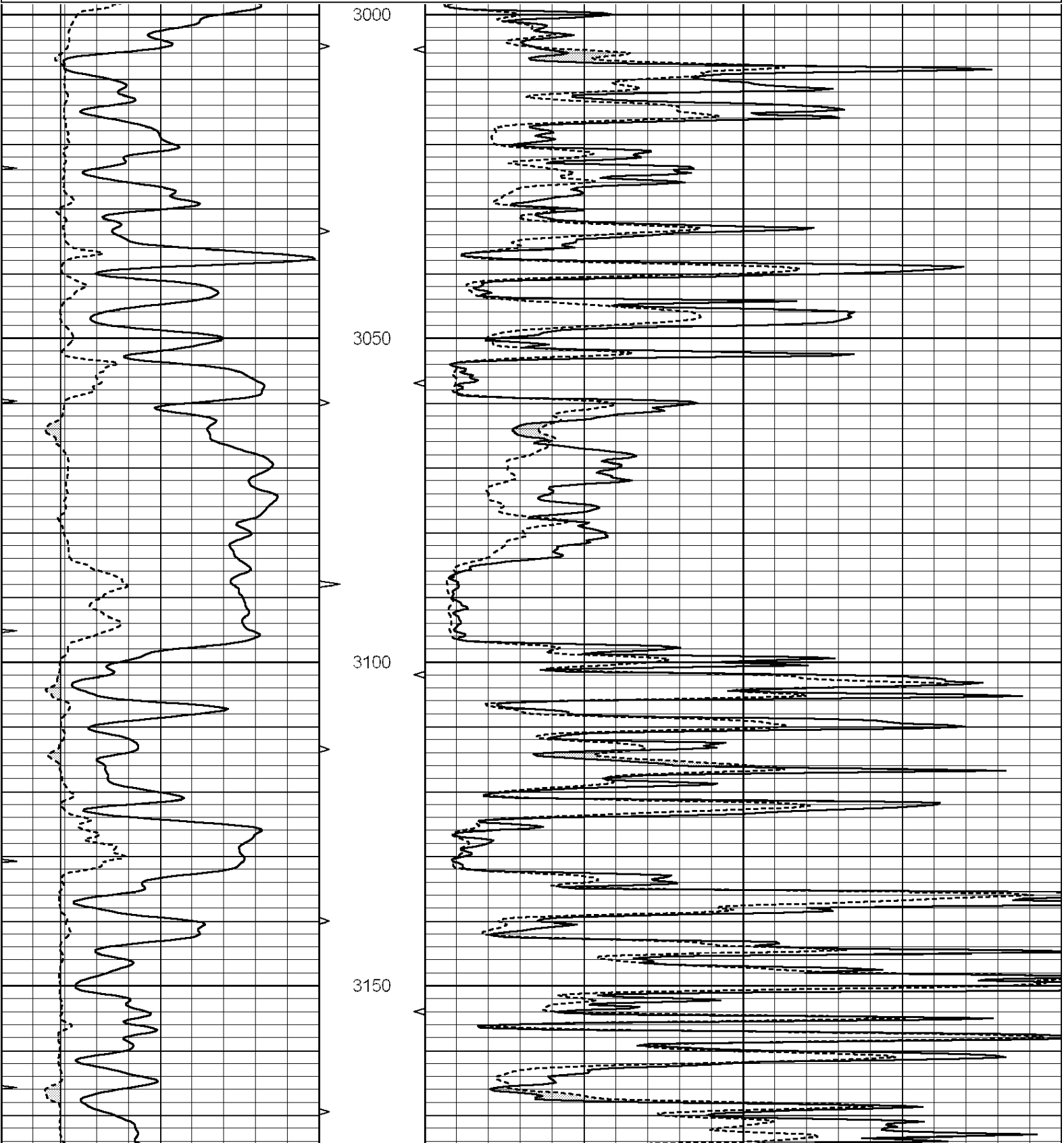
THANK YOU FOR USING ELI WIRELINE HAYS, KANSAS (785) 628-6395
DIRECTIONS
RIGA ELEVATOR, S. TO ROUND MOUND, 1W., 1/2N., W. INTO

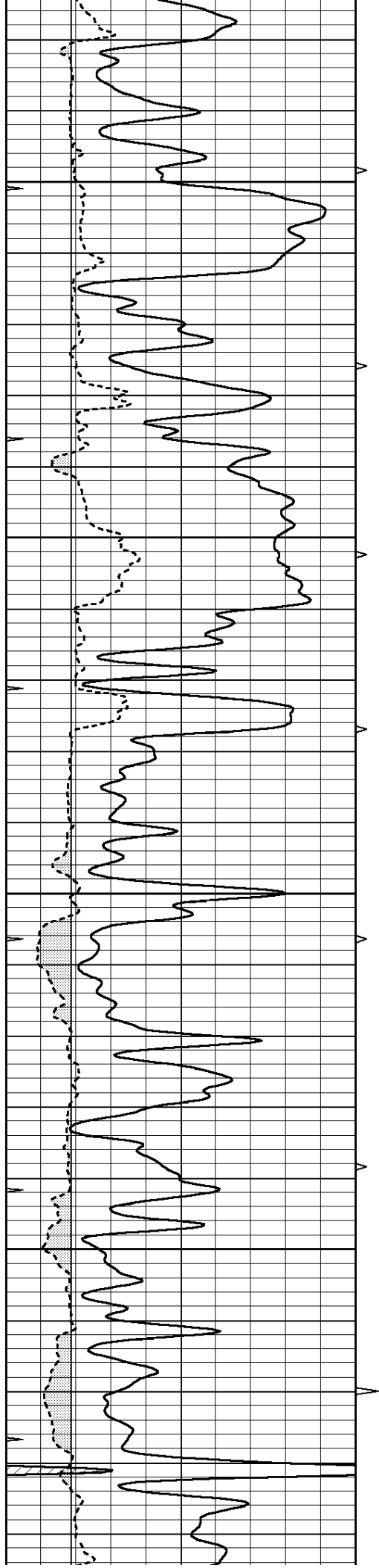


MAIN SECTION

Database File: 1590ddn.db
Dataset Pathname: pass6.2
Presentation Format: micro
Dataset Creation: Tue Jul 18 23:38:09 2017 by Calc SOC 120430
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	MEL 20 (Ohm-m)	40
0	MINMK	20	TBHV			
			0 (ft3)	10		



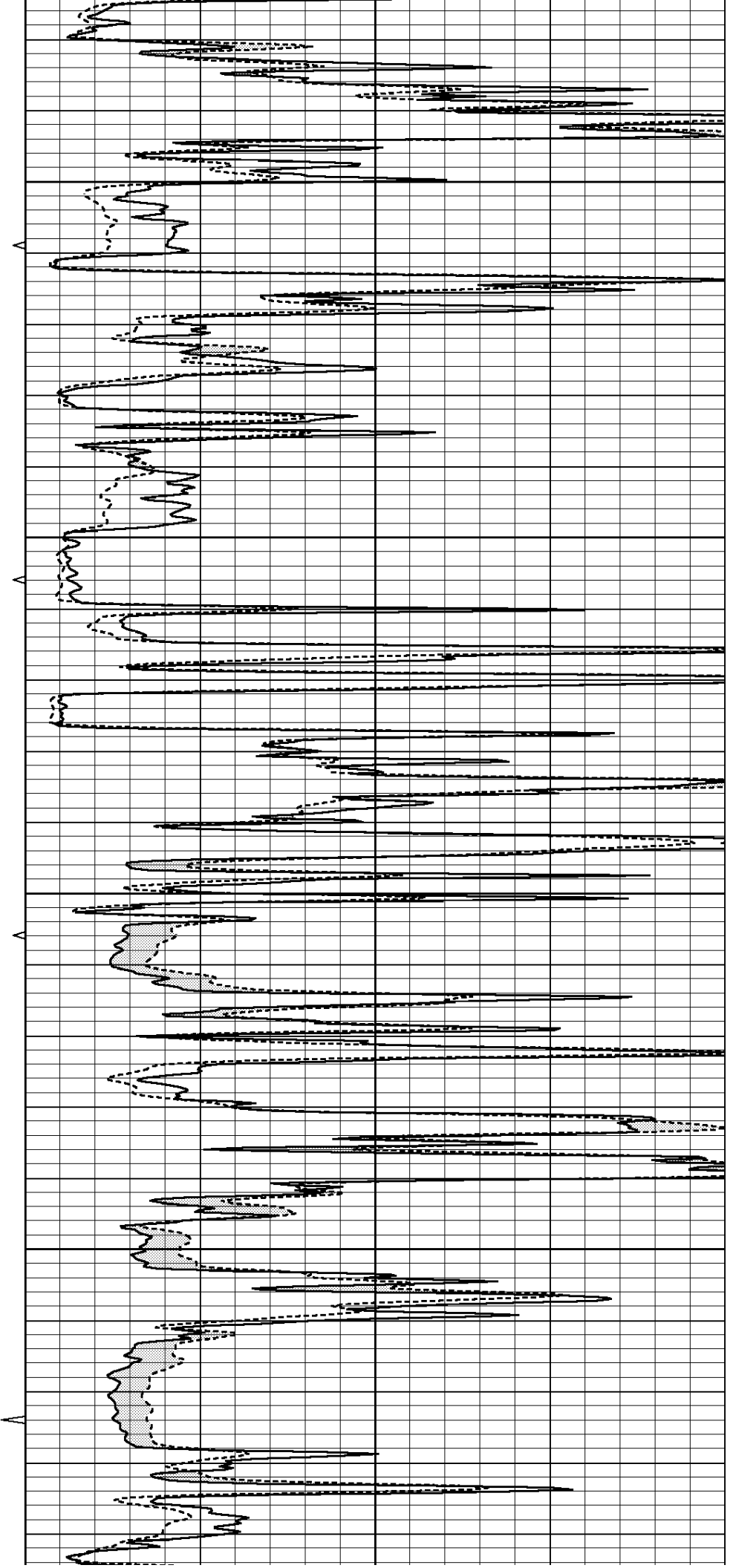


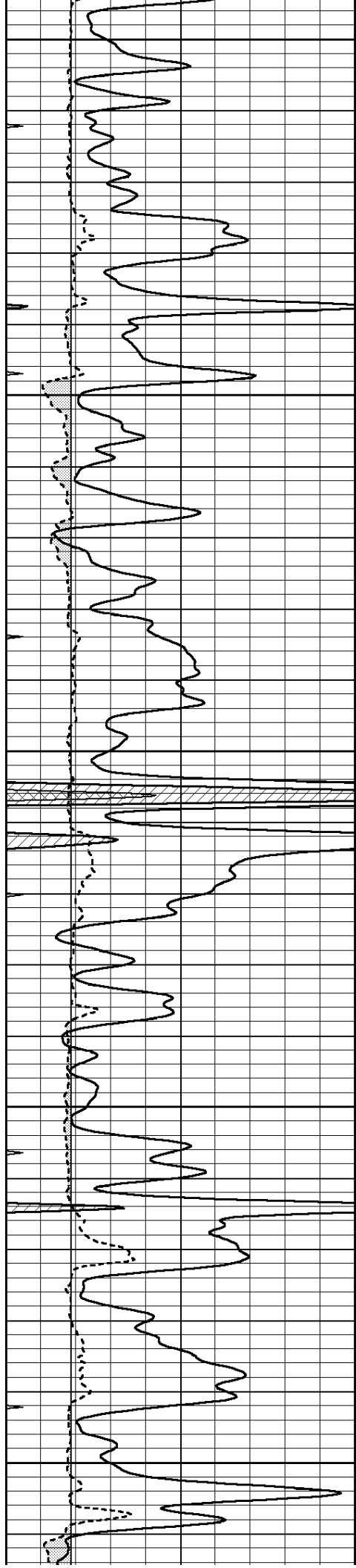
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3250

3300

3350





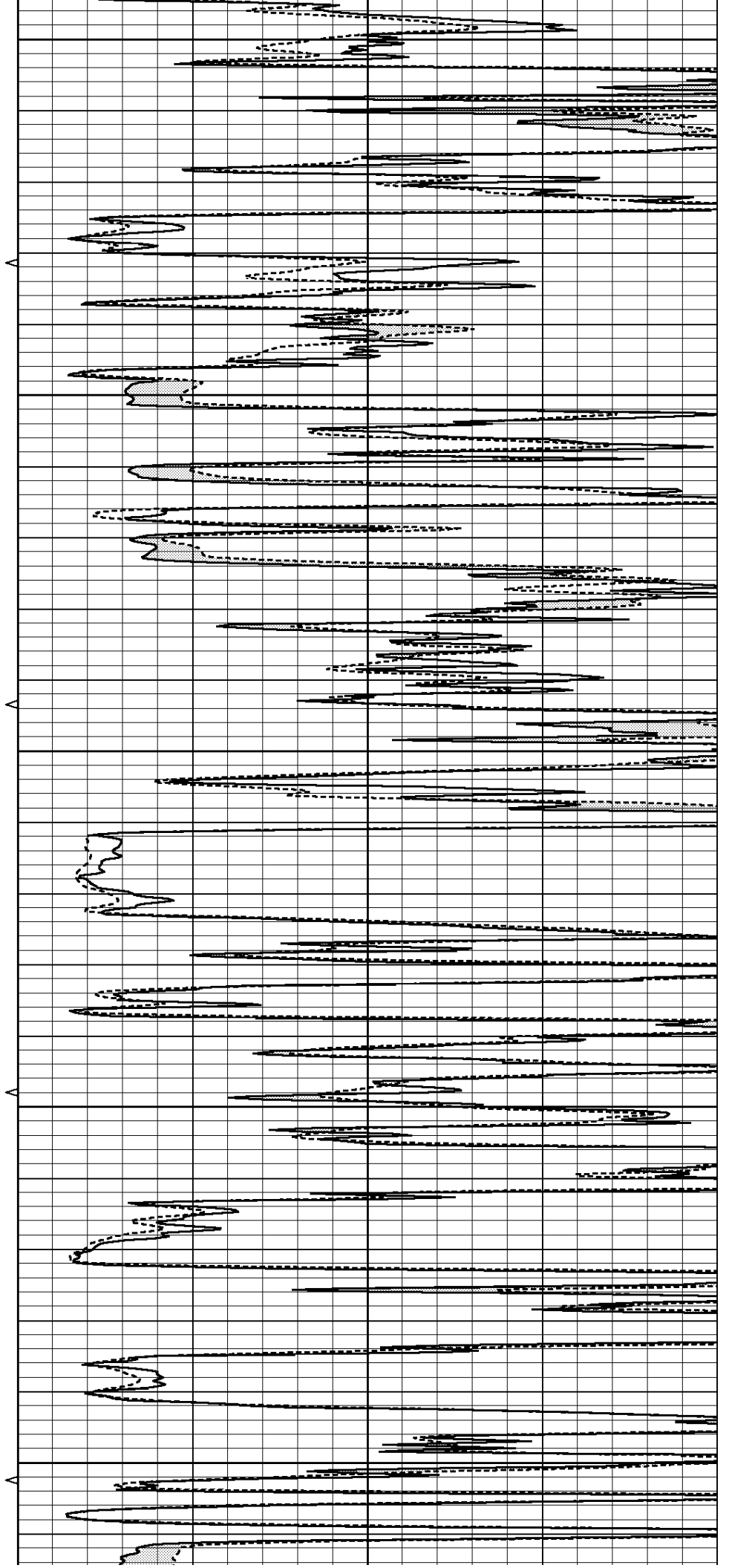
3400

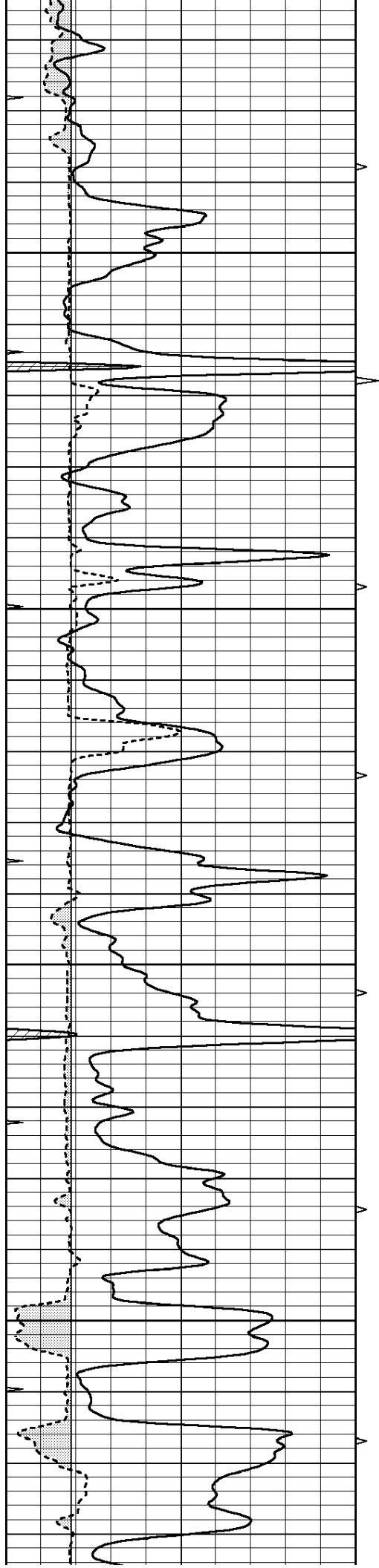
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3500

3550

3600



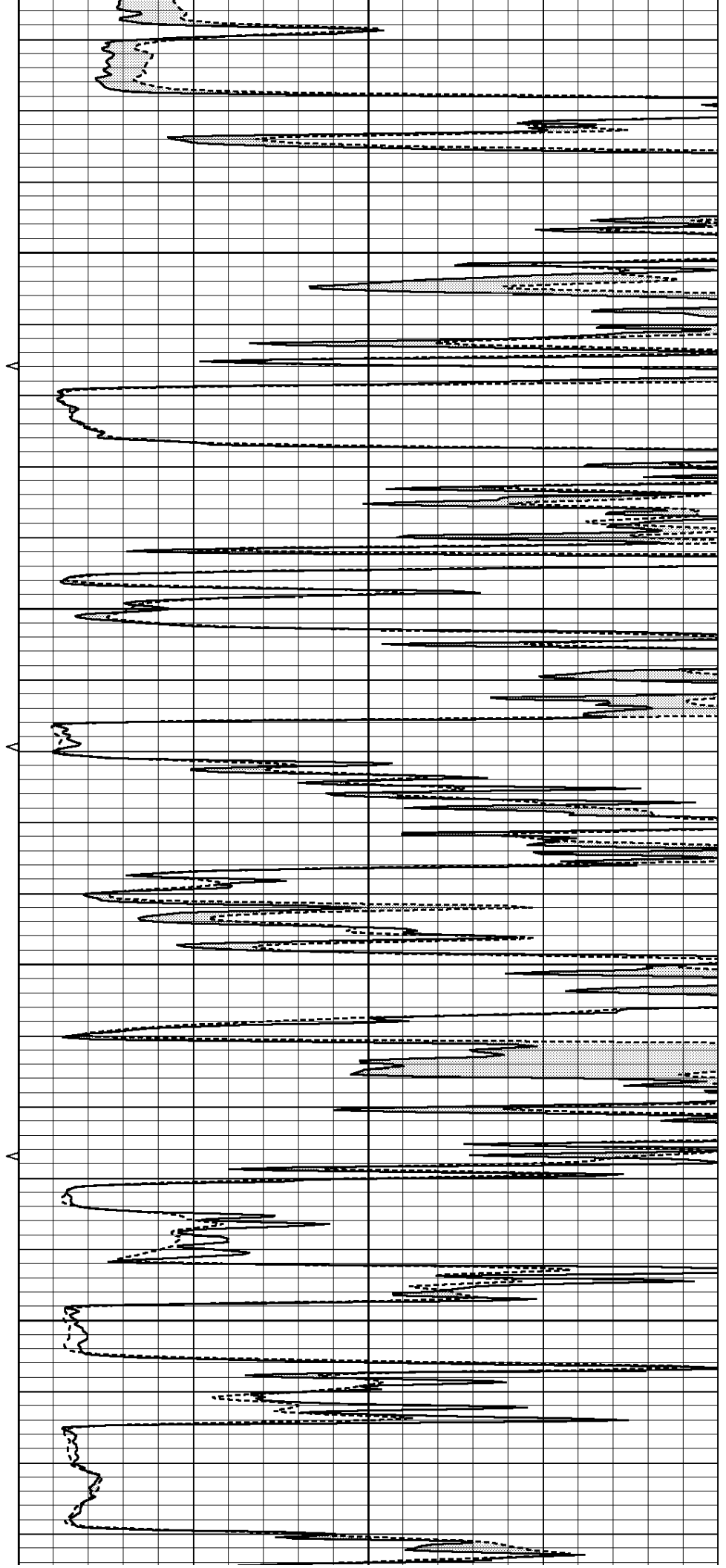


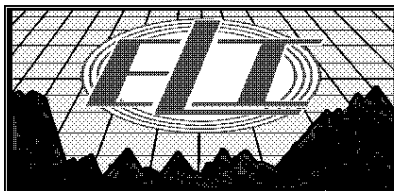
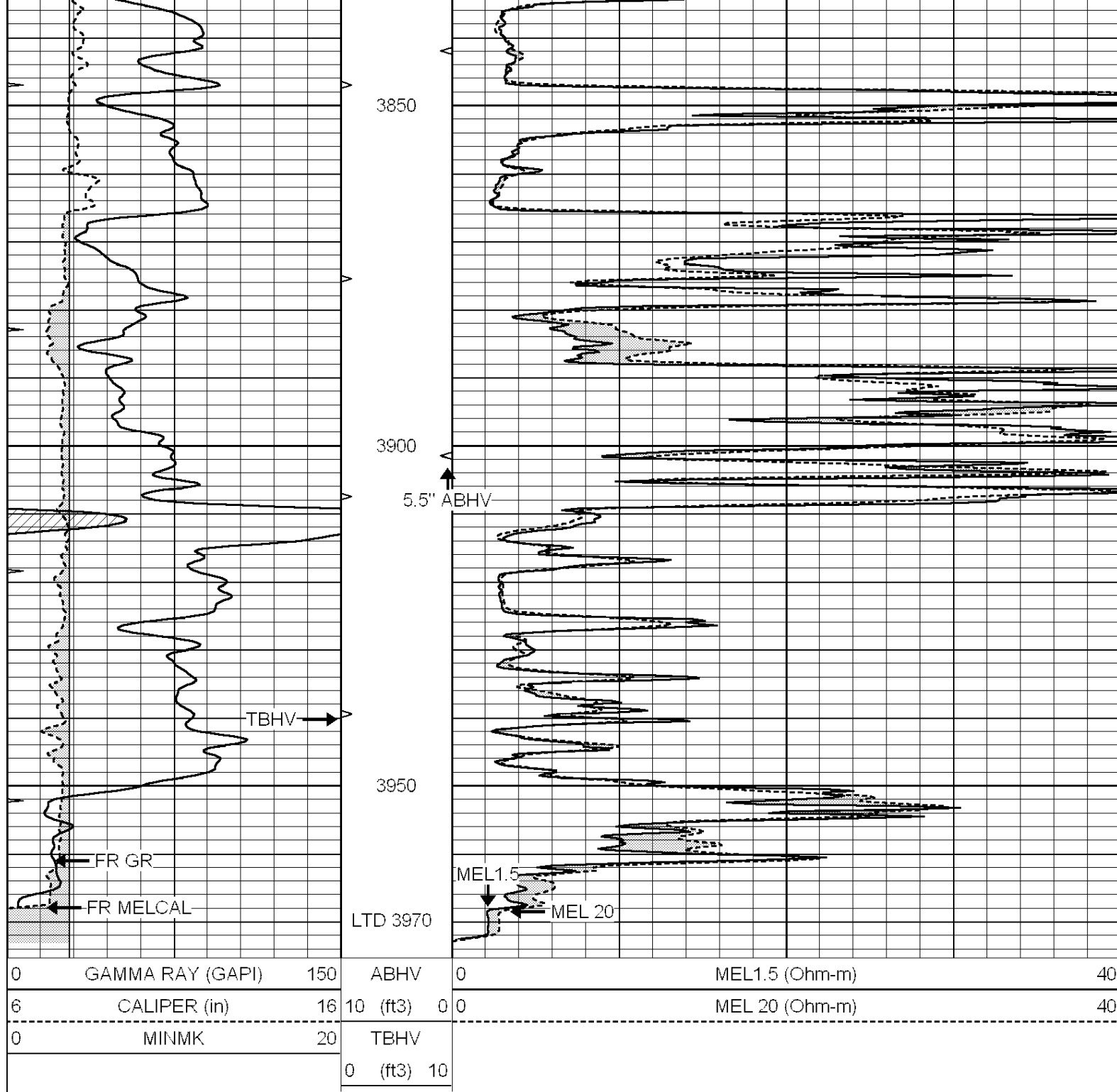
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3700

3750

3800



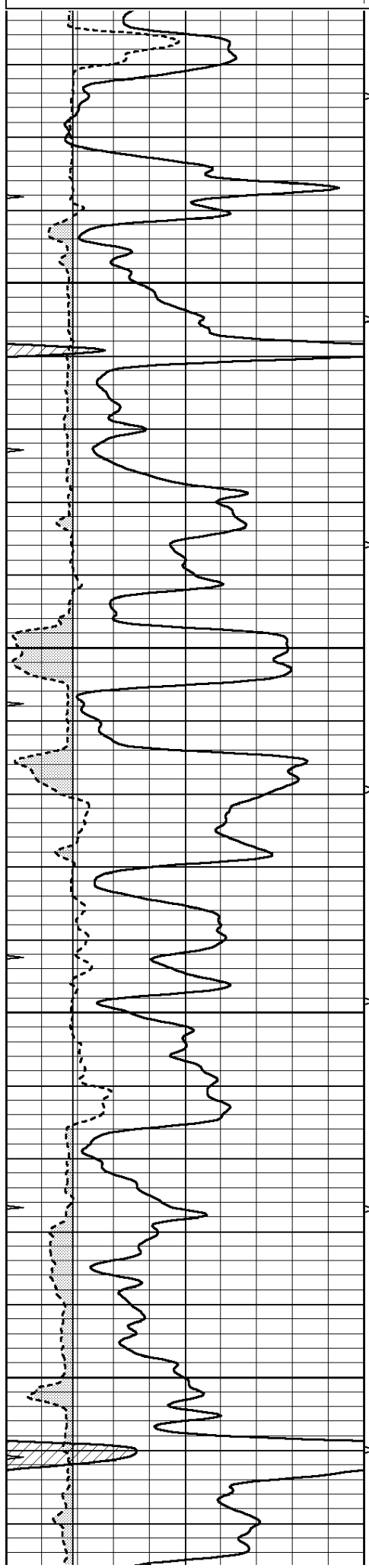


REPEAT SECTION

Database File: 1590ddn.db
 Dataset Pathname: pass5.3
 Presentation Format: micro
 Dataset Creation: Tue Jul 18 23:09:32 2017 by Calc SOC 120430
 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	MEL 20 (Ohm-m)	40
0	MINMK	20	TBHV			

0 (ft3) 10

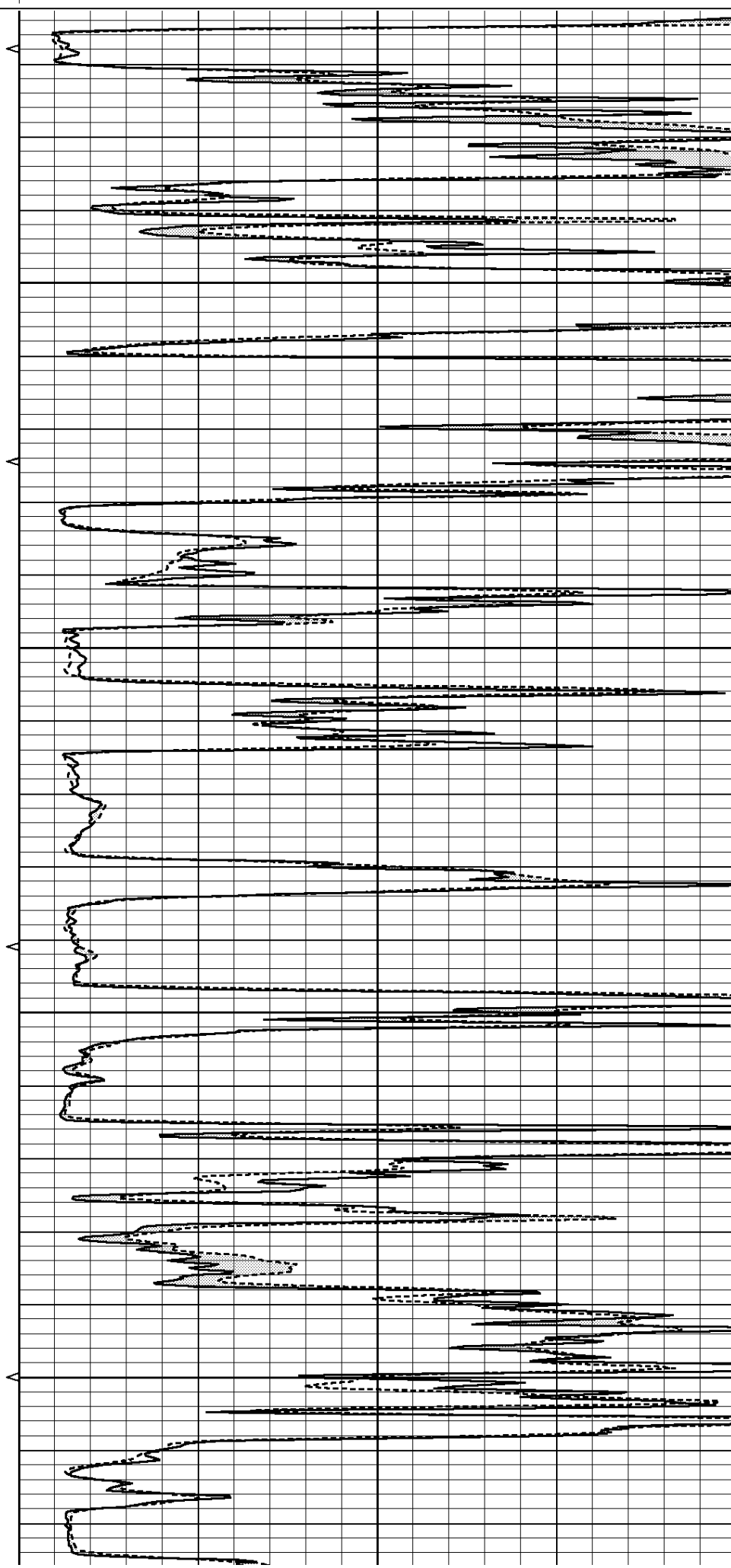


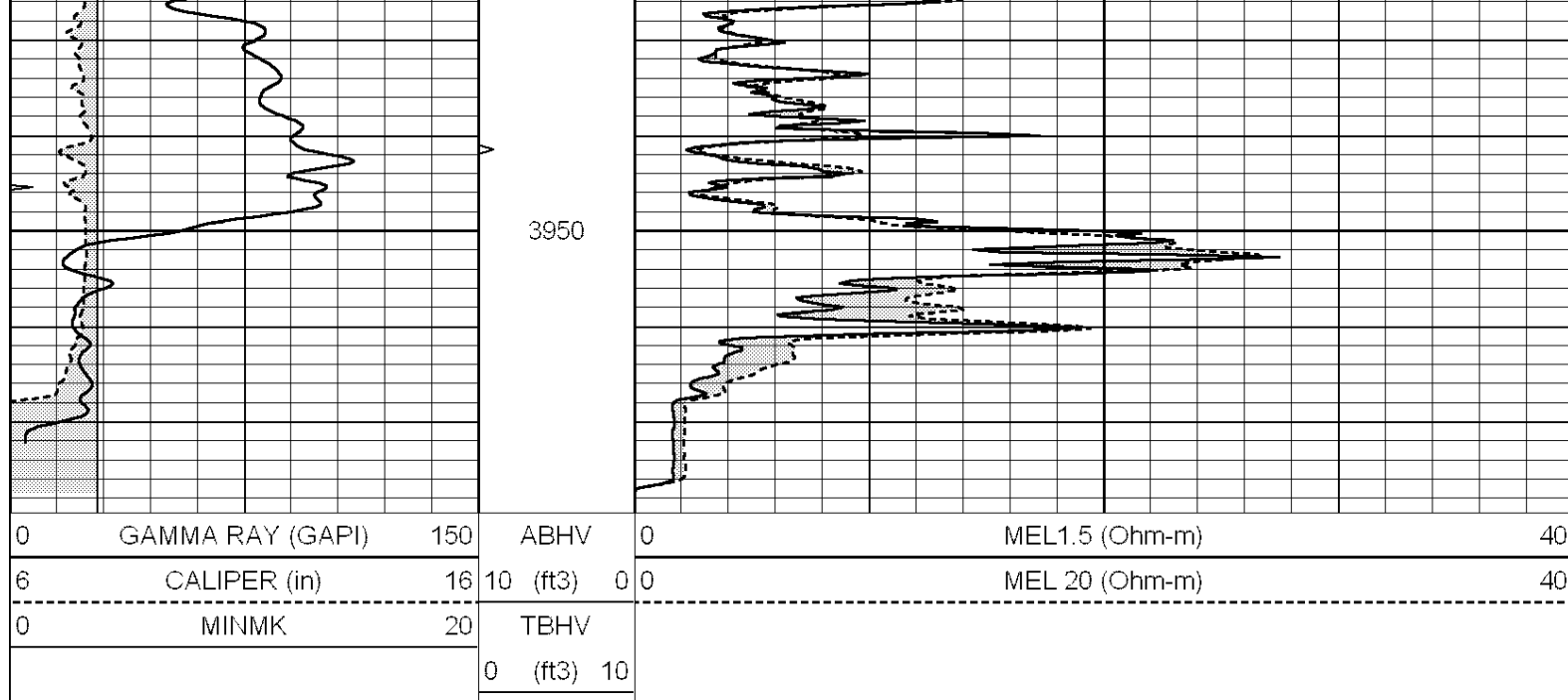
3750

3800

3850

3900





Calibration Report

Database File: 1590ddn.db
Dataset Pathname: pass6.2
Dataset Creation: Tue Jul 18 23:38:09 2017 by Calc SOC 120430

MICRO Calibration Report

Serial Number:	070911	
Tool Model:	ProbeN	
Performed:	Fri Jul 14 19:31:11 2017	
Caliper Calibration:	Gain=5.948	Offset=-1.517
	Low Cal	High Cal
References	8.000	18.000
Readings	1.600	3.281
1.5" Calibration:	Gain=40.000	Offset=0.000
	Low Cal	High Cal
References	0.000	20.000
Readings	0.001	1.240
2" Calibration:	Gain=48.000	Offset=-0.200
	Low Cal	High Cal
References	0.000	20.000
Readings	0.001	1.076

Gamma Ray Calibration Report

Serial Number:	070559	
Tool Model:	OPEN_GR	
Performed:	Thu Jul 06 02:59:45 2017	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.2000	GAPI/cps