

MICRO LOG

Company	DOWNING - NELSON OIL CO., INC.		
Well	DEUTSCHER - SCHOENTHALER UNIT #		
Field	ELLIS WEST		
County	TREGO		
State	KANSAS		
Company	DOWNING - NELSON OIL COMPANY, INC.		
Well	DEUTSCHER - SCHOENTHALER UNIT #1-3		
Field	ELLIS WEST		
County	TREGO		
State	KANSAS		
Location:	API # : 15-195-23006-0000		Other Services CDL/CNL DIL
Permanent Datum	GROUND LEVEL		Elevation
Log Measured From	960' FNL & 1350' FEL NE - SE - NW - NE		2197
Drilling Measured From	SEC 3 TWP 13S RGE 21W KELLY BUSHING 8' A.G.L. KELLY BUSHING		K.B. 2205 D.F. 2203 G.L. 2197
Date	7/3/16		
Run Number	TWO		
Depth Driller	3930		
Depth Logger	3931		
Bottom Logged Interval	3929		
Top Log Interval	3100		
Casing Driller	8 5/8"@220'		
Casing Logger	220		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD		CHLORIDES 11,000 PPM
Density / Viscosity	9.3/40		
pH / Fluid Loss	10.0/9.2		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.550@95F		
Rmf @ Meas. Temp	.413@95F		
Rmc @ Meas. Temp	.660@95F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.454@115F		
Time Circulation Stopped	4 HOURS		
Time Logger on Bottom	10:00 P.M.		
Maximum Recorded Temperature	115F		
Equipment Number	922339		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	MARC DOWNING		

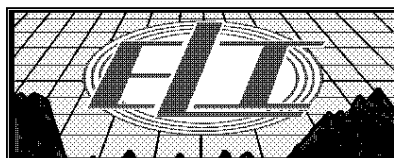
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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on 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

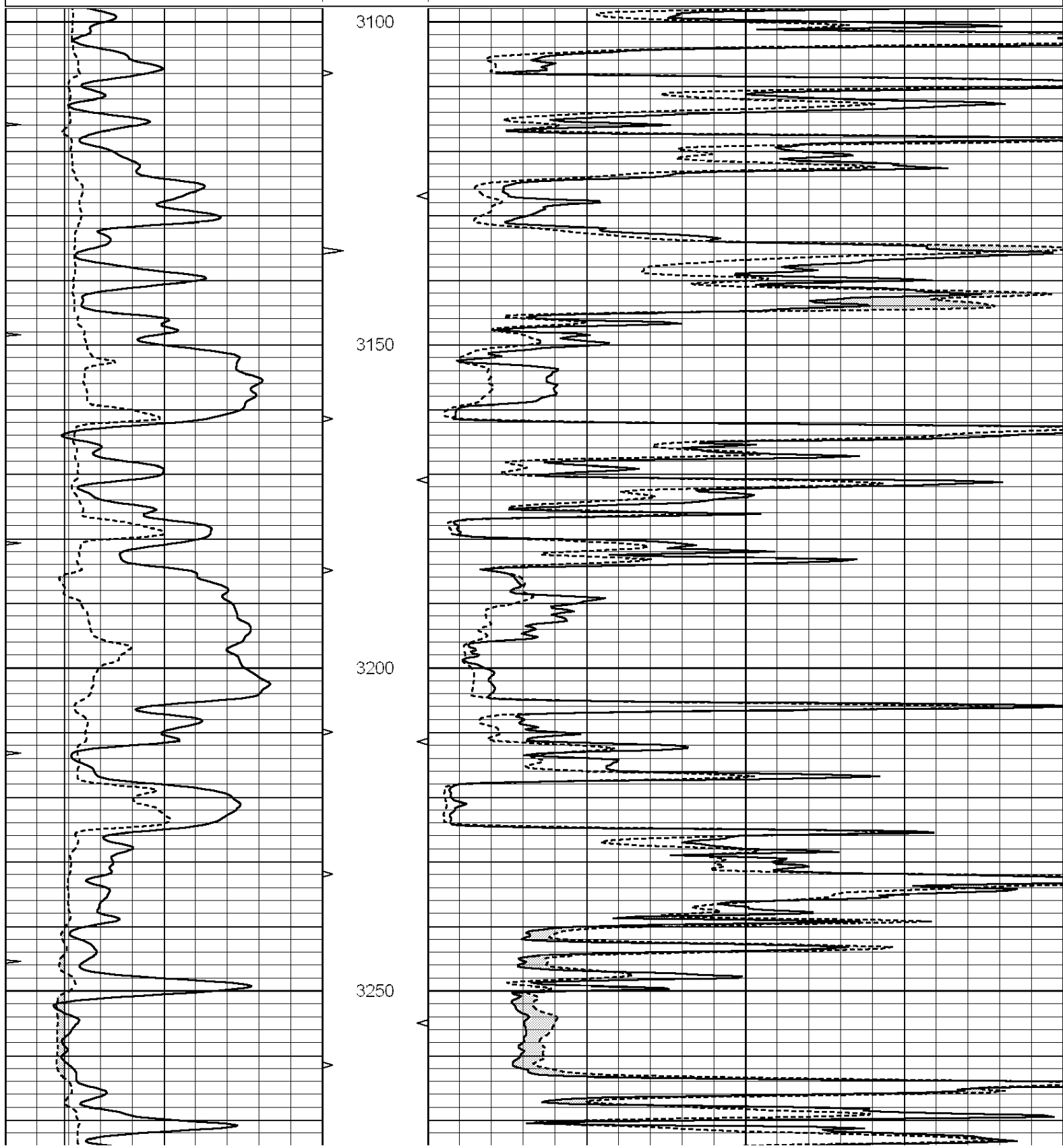
RIGA, KS. & I-70, 1/2S., TURN BEFORE RIVER BRIDGE, 1E., 1/4S. TO TANK BATTERY, 1/2 W. INTO

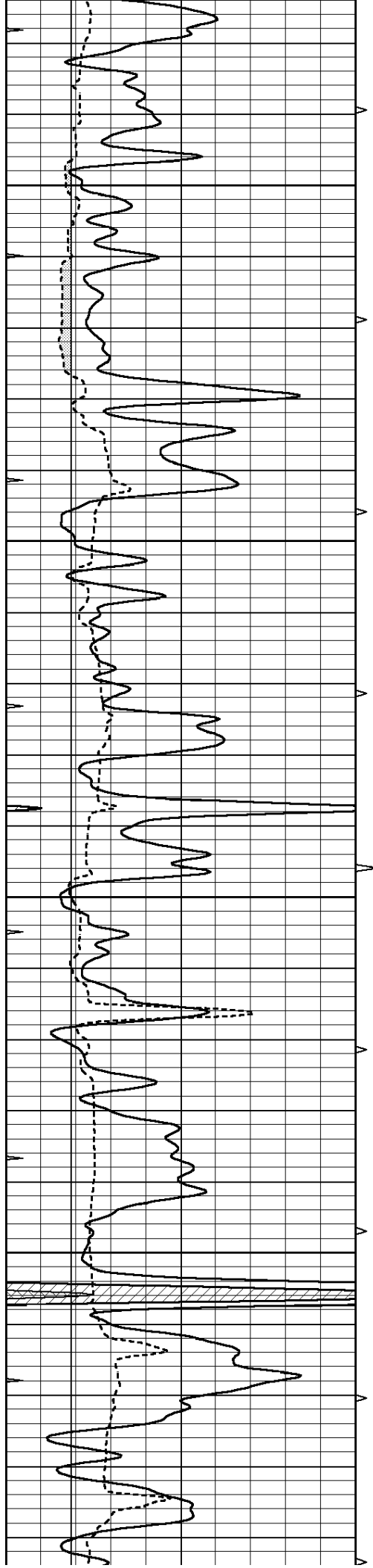


MAIN SECTION

Database File: 30750ddn.db
Dataset Pathname: pass7.2
Presentation Format: micro
Dataset Creation: Mon Jul 04 00:52:30 2016 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		



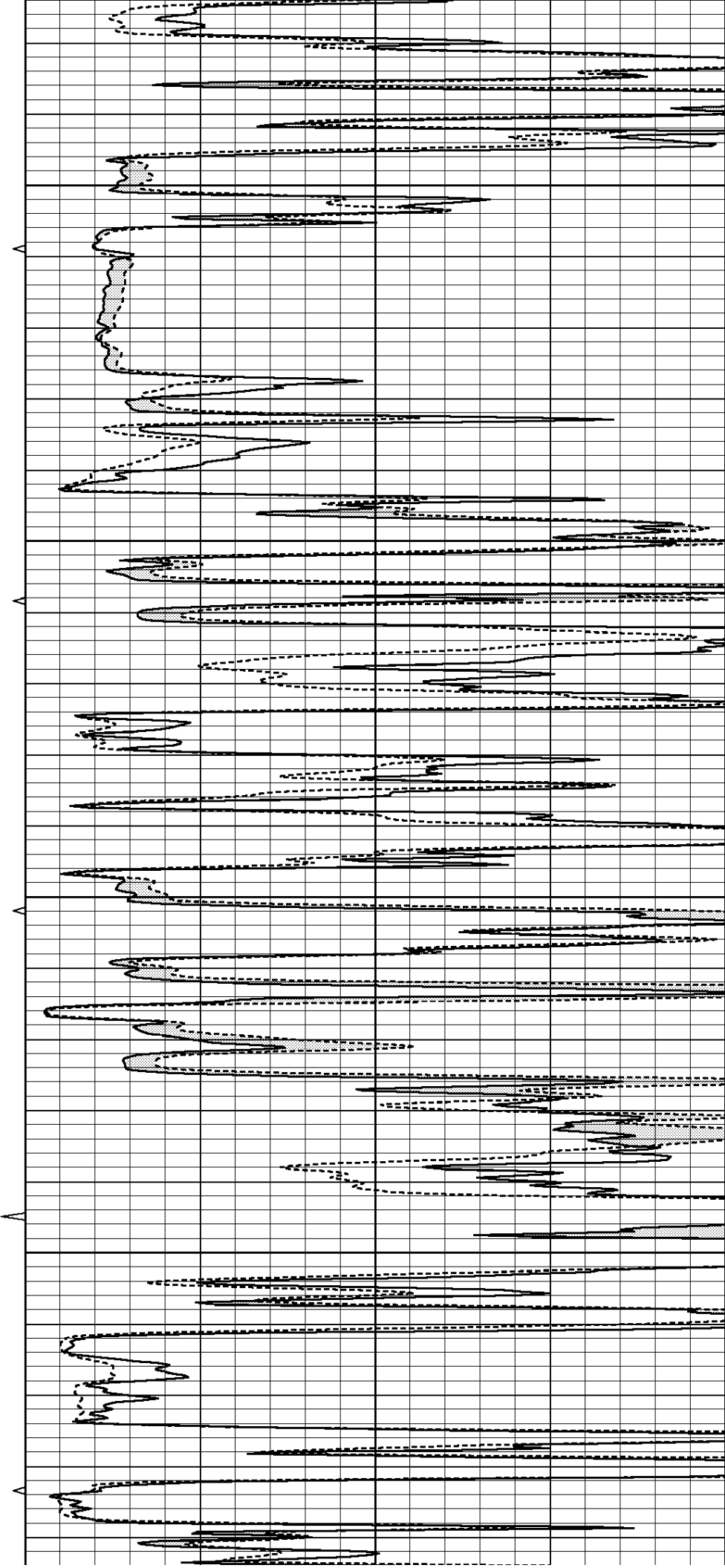


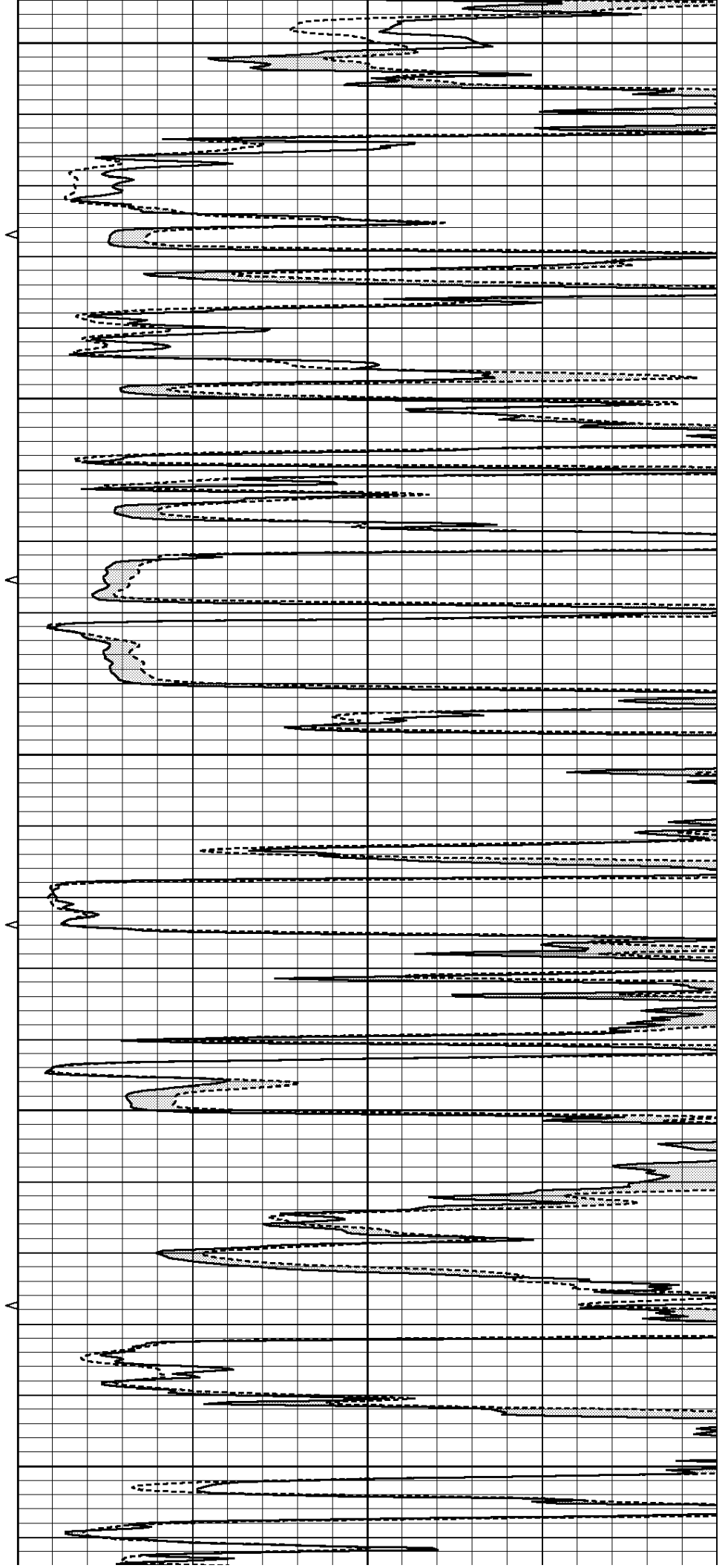
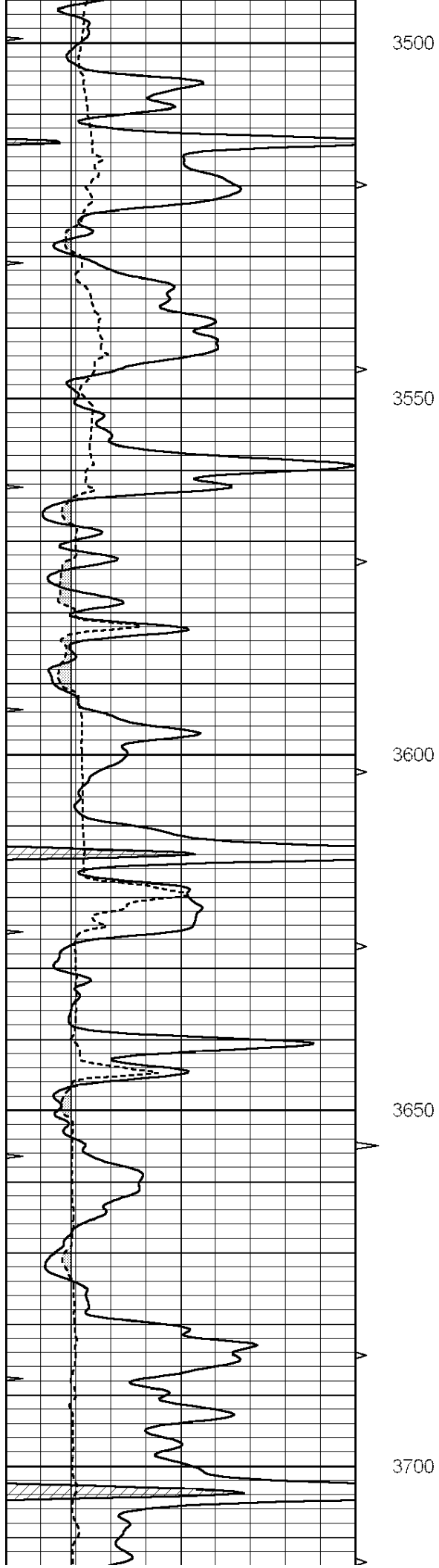
3300

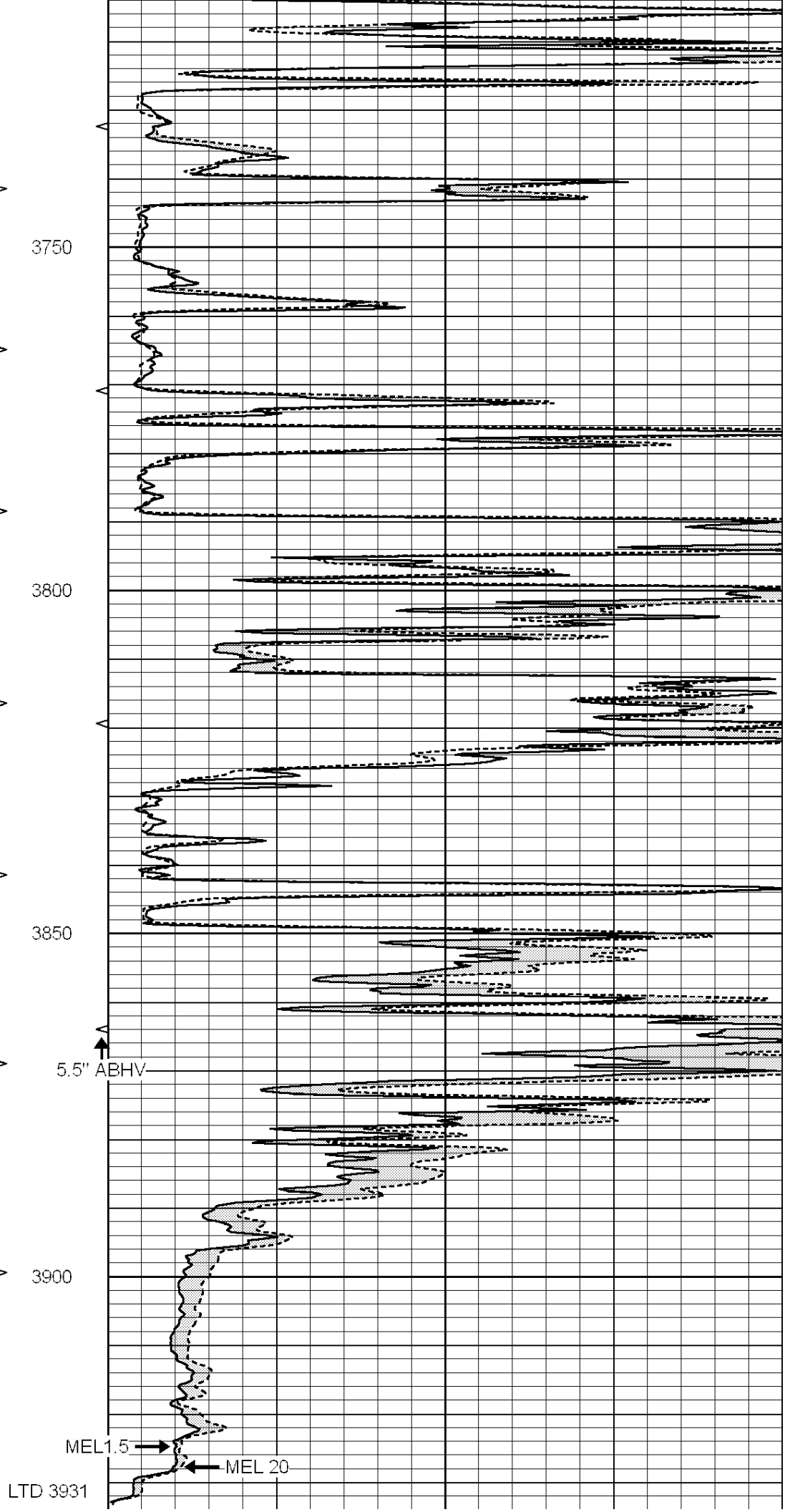
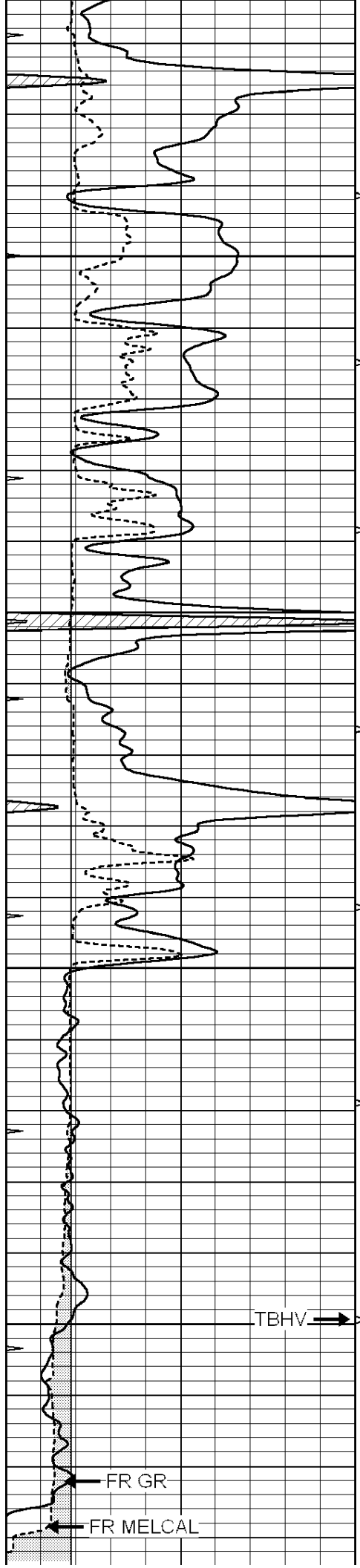
3350

3400

3450







3750

3800

3850

5.5" ABHV

TBHV →

3900

FR GR

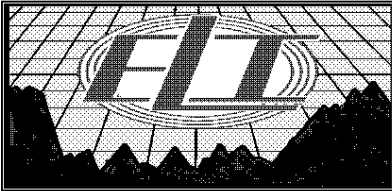
FR MELCAL

MEL 1.5 →

← MEL 20

LTD 3931

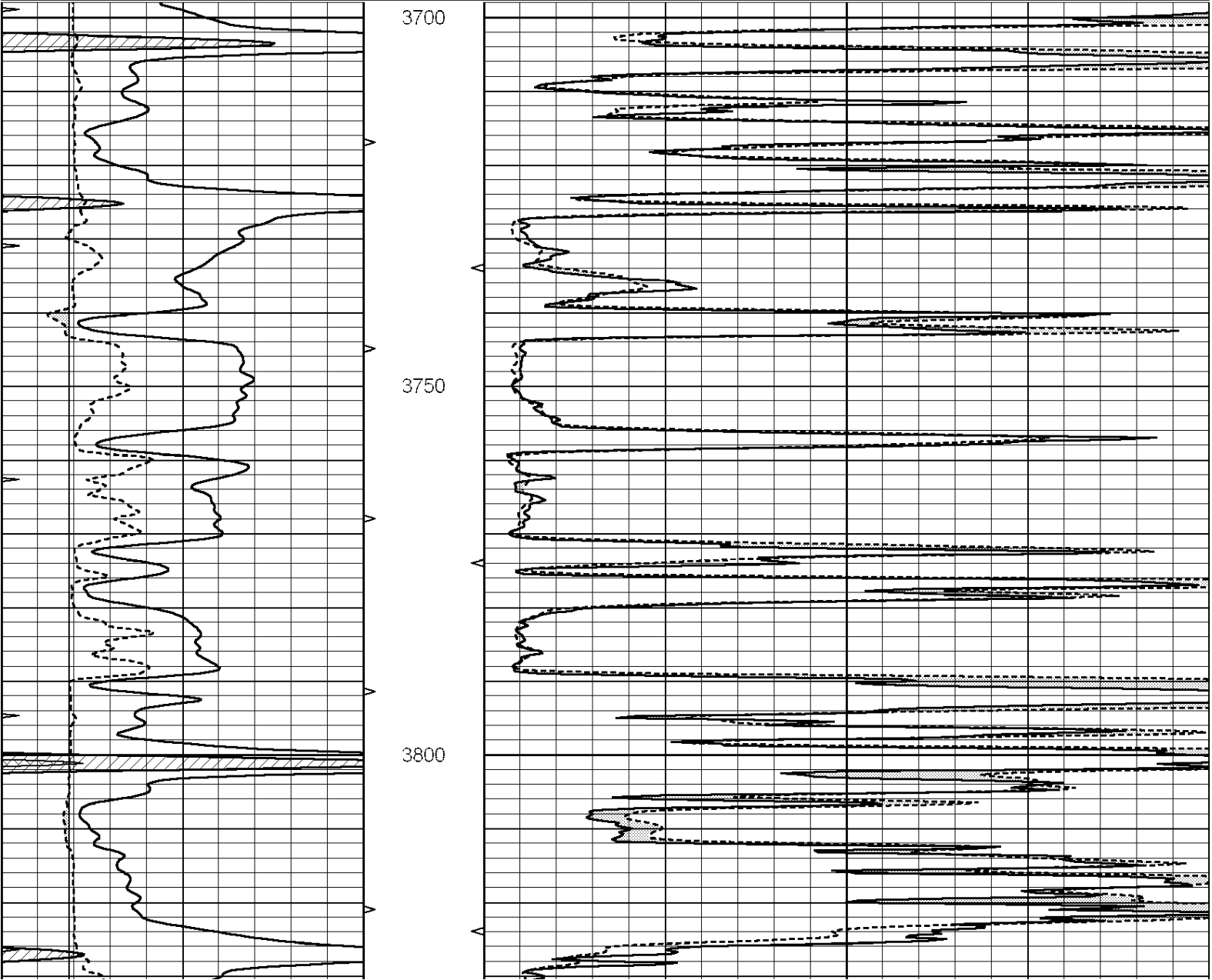
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0	MINMK	20	TBHV			
			0 (ft3)	10		

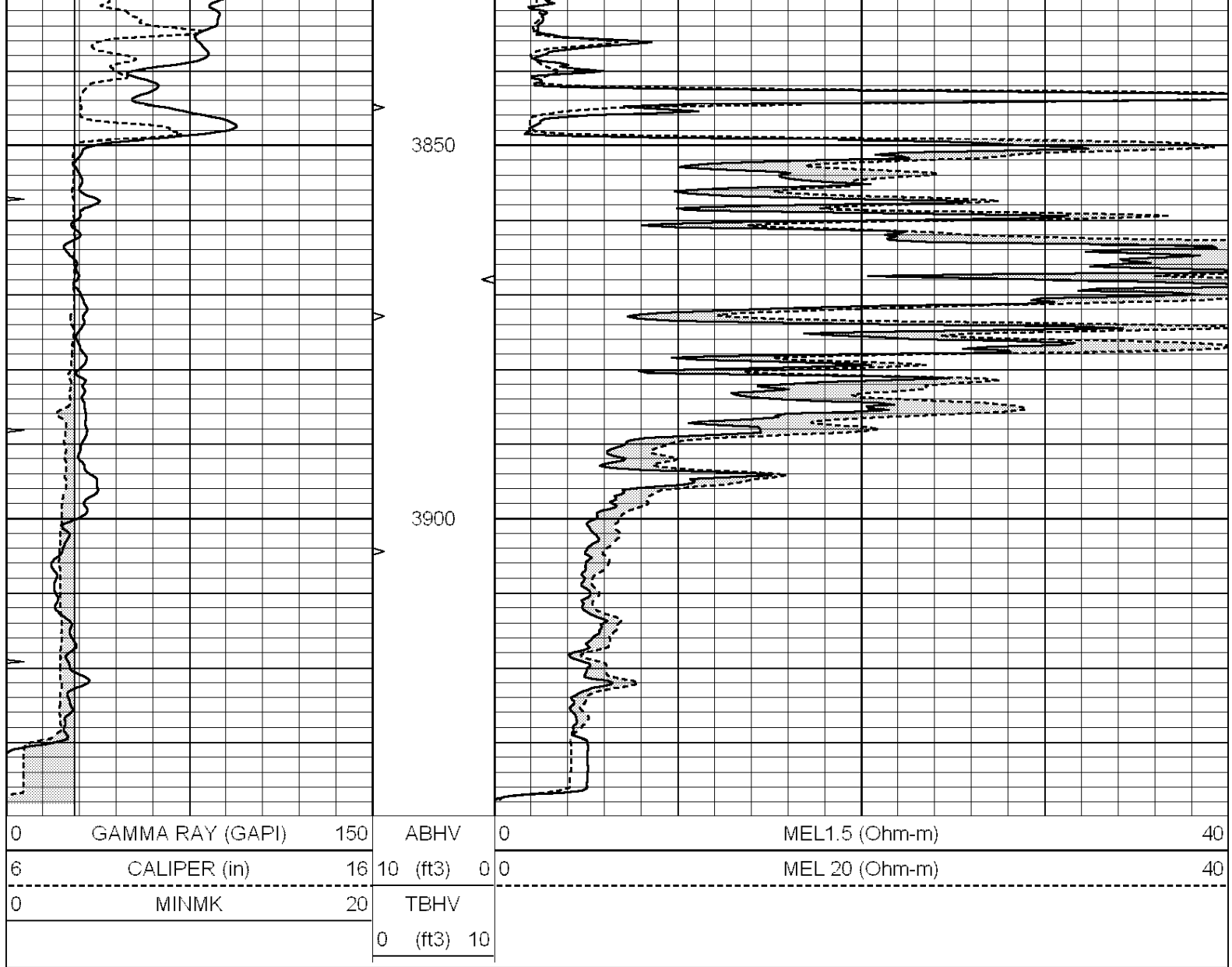


REPEAT SECTION

Database File: 30750ddn.db
 Dataset Pathname: pass5.3
 Presentation Format: micro
 Dataset Creation: Mon Jul 04 00:09:23 2016 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		





Calibration Report			
Database File:	30750ddn.db		
Dataset Pathname:	pass7.2		
Dataset Creation:	Mon Jul 04 00:52:30 2016 by Calc SOC 120430		
MICRO Calibration Report			
Serial Number:	070910		
Tool Model:	ProbeN		
Performed:	Tue Mar 01 08:02:30 2016		
Caliper Calibration:	Gain=5.104	Offset=-0.218	
	Low Cal	High Cal	
References	7.300	16.000	
Readings	1.473	3.178	
1.5" Calibration:	Gain=34.000	Offset=0.300	
	Low Cal	High Cal	
References	0.000	20.000	
Readings	0.000	1.216	
2" Calibration:	Gain=38.000	Offset=0.000	
	Low Cal	High Cal	
References	0.000	20.000	
Readings	0.000	0.000	

References	0.000	20.000
Readings	0.002	1.053
Gamma Ray Calibration Report		
Serial Number:	070559	
Tool Model:	OPEN_GR	
Performed:	Mon Jul 04 00:08:32 2016	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.2000	GAPI/cps