

MICRO LOG

Company RAYMOND OIL COMPANY, INC.
Well #1 HINEMAN - LAYNE UNIT
Field ALAMOTA SOUTH
County LANE
State KANSAS

Company RAYMOND OIL COMPANY, INC.
Well #1 HINEMAN - LAYNE UNIT
Field ALAMOTA SOUTH
County LANE State KANSAS

Location: API # : 15-101-22569-0000
725' FNL & 2520' FWL
NE - SE - NE - NW
SEC 9 TWP 19S RGE 27W
Permanent Datum GROUND LEVEL Elevation 2712
Log Measured From KELLY BUSHING 5' A.G.L.
Drilling Measured From KELLY BUSHING
Other Services
CDL/CNL
DIL
Elevation
K.B. 2717
D.F. 2715
G.L. 2712

Date	9/28/15		
Run Number	TWO		
Depth Driller	4762		
Depth Logger	4763		
Bottom Logged Interval	4761		
Top Log Interval	3500	2100-1400	
Casing Driller	8 5/8"@261'		
Casing Logger	260		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 3,000 PPM	
Density / Viscosity	9.2/62		
pH / Fluid Loss	10.0/8.8		
Source of Sample	FLOWLINE		
Rin @ Meas. Temp	.850@82F		
Rinf @ Meas. Temp	.638@82F		
Rinc @ Meas. Temp	1.02@82F		
Source of Rinf / Rinc	MEASUREMENT		
Rin @ BHT	.621@103F		
Time Circulation Stopped	4.5 HOURS		
Time Logger on Bottom	8:30 A.M.		
Maximum Recorded Temperature	123F		
Equipment Number	22339		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	KIM SHOEMAKER		

<<< Fold Here >>>

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

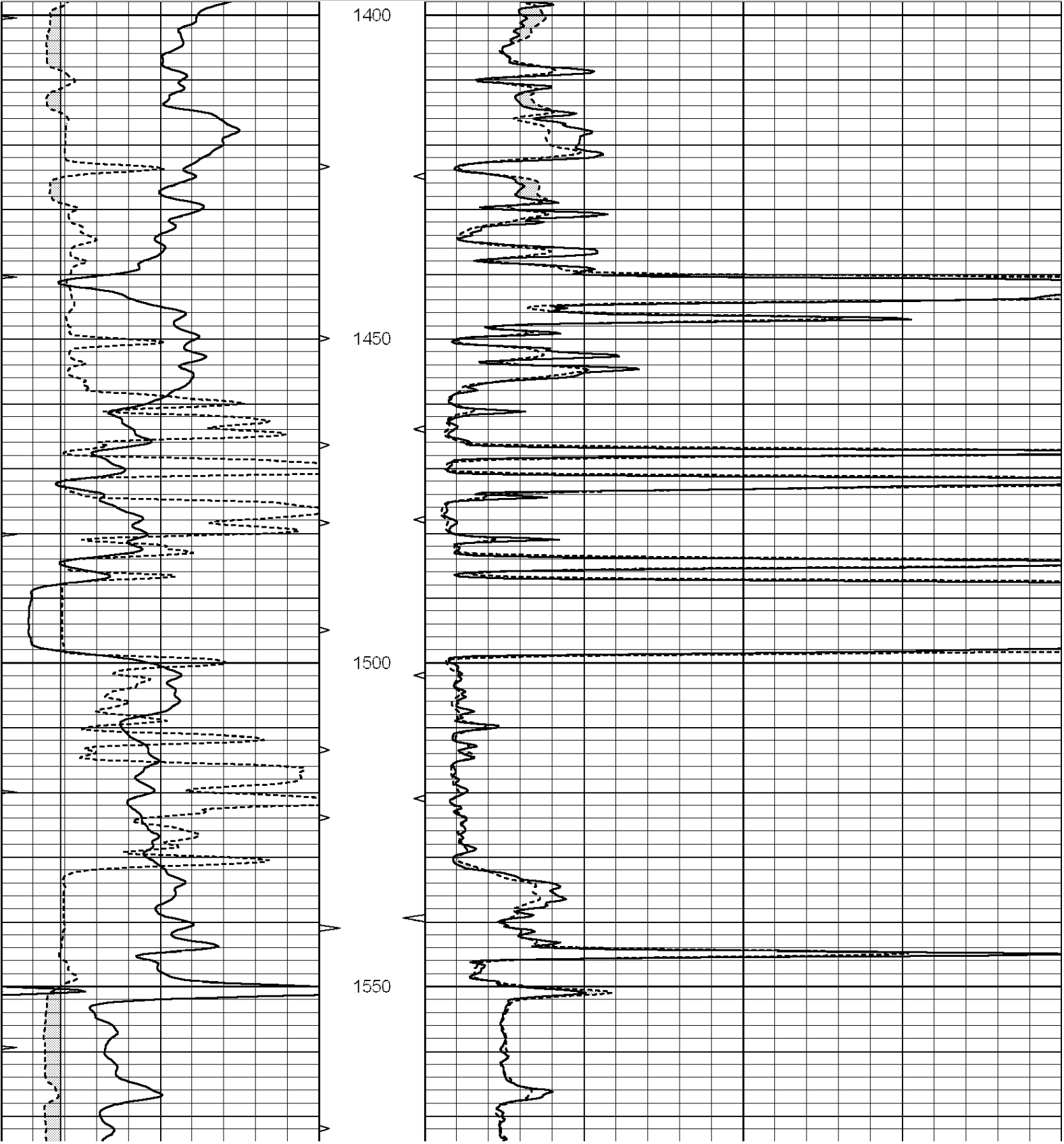
THANK YOU FOR USING C & J ENERGY (CASED HOLE SOLUTIONS) HAYS, KANSAS (785) 628-6395
DIRECTIONS
DIGHTON, KS., E. ON HWY 96 TO "TURKEY RED RD.", 4S. TO "RD. 110" 1/2W., S. INTO

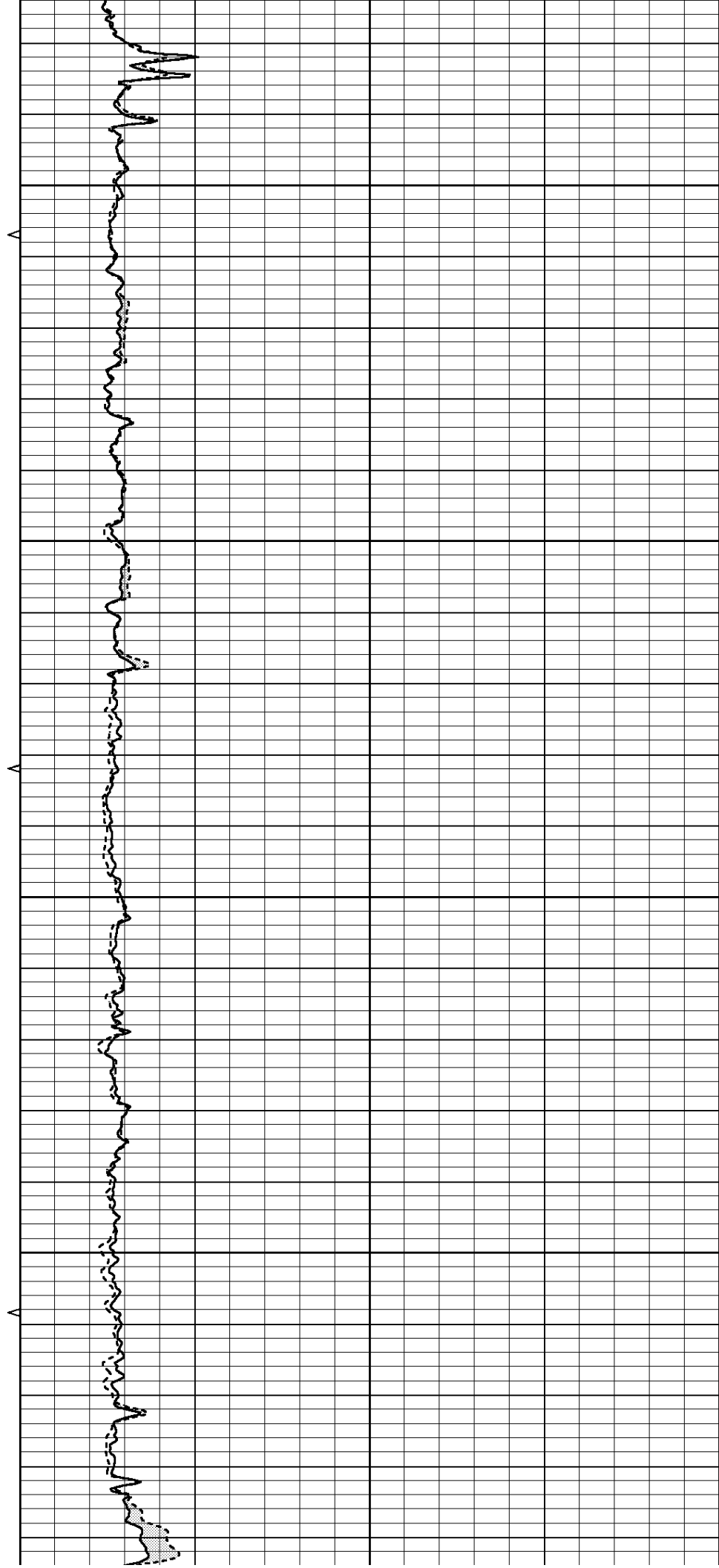
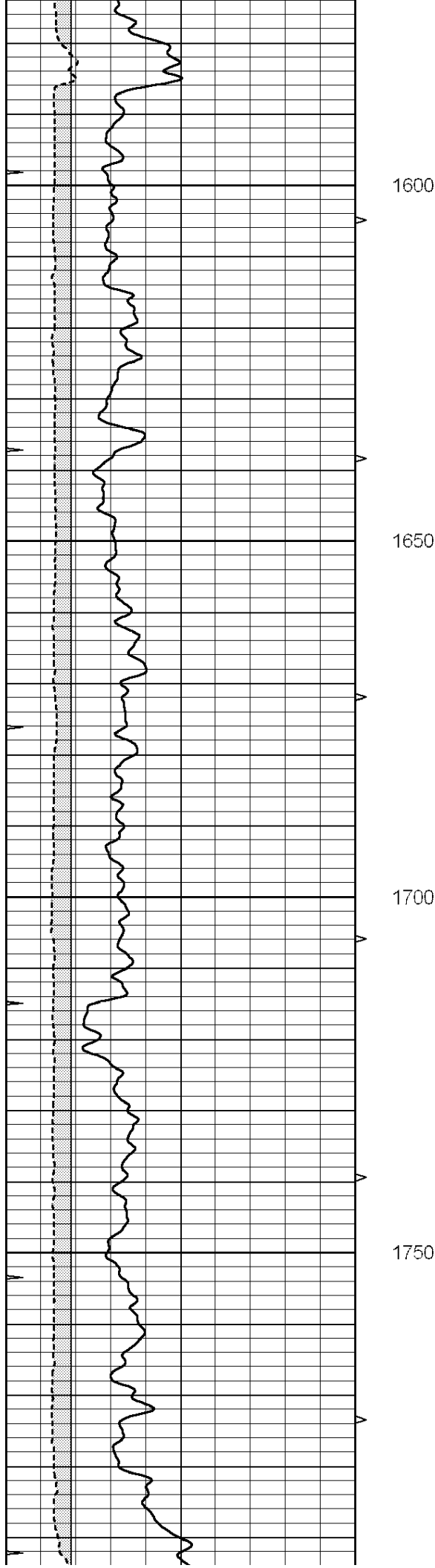


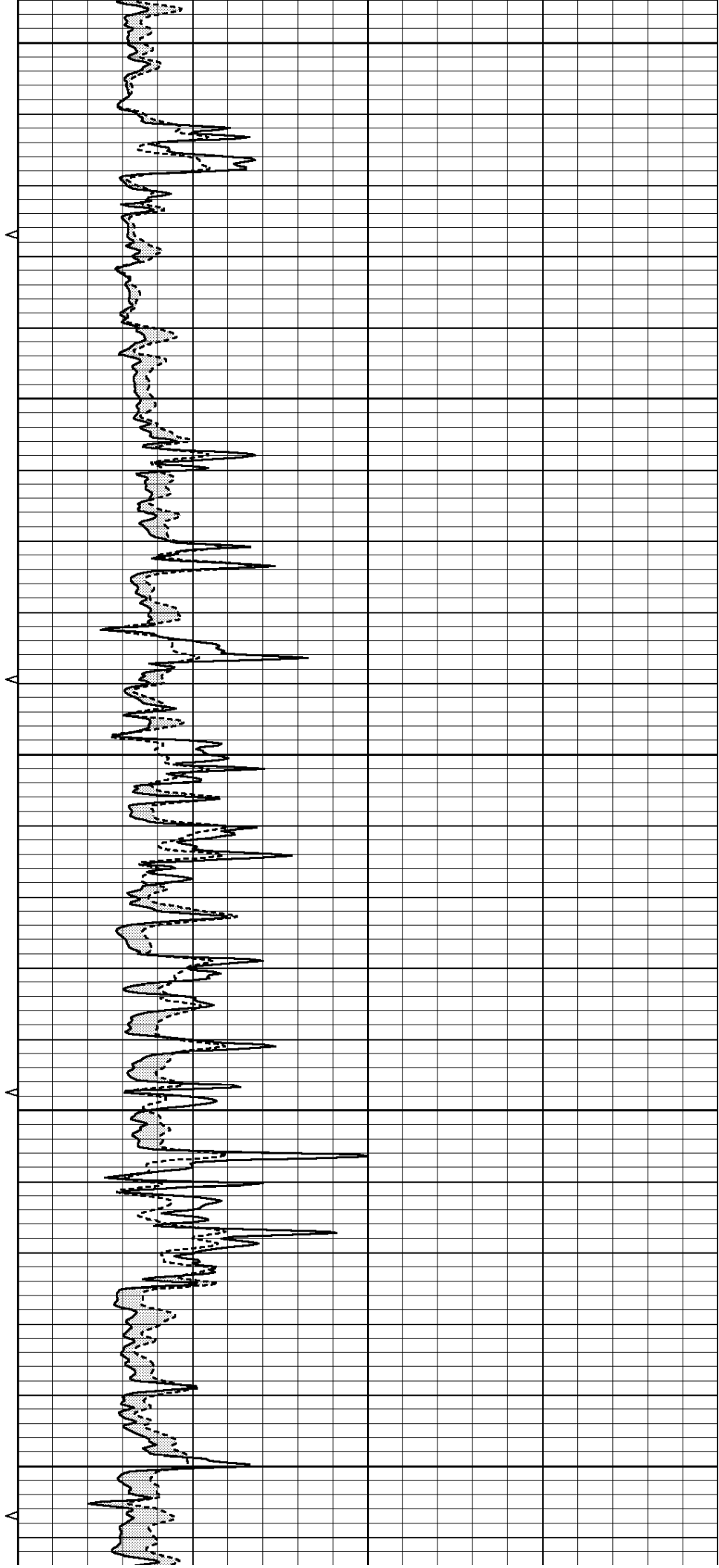
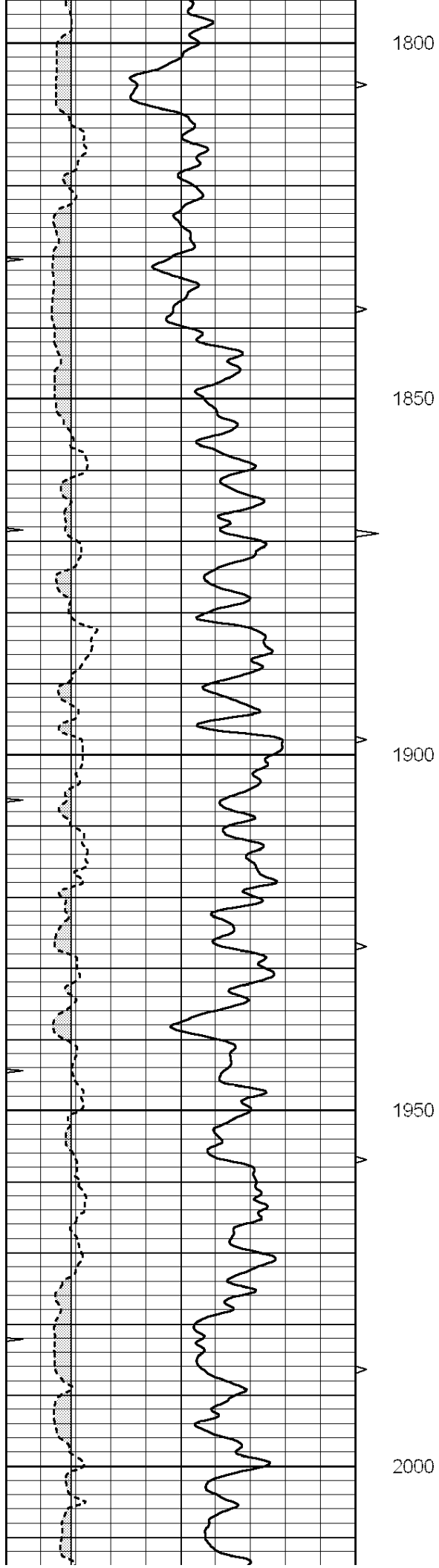
UPPER SECTION

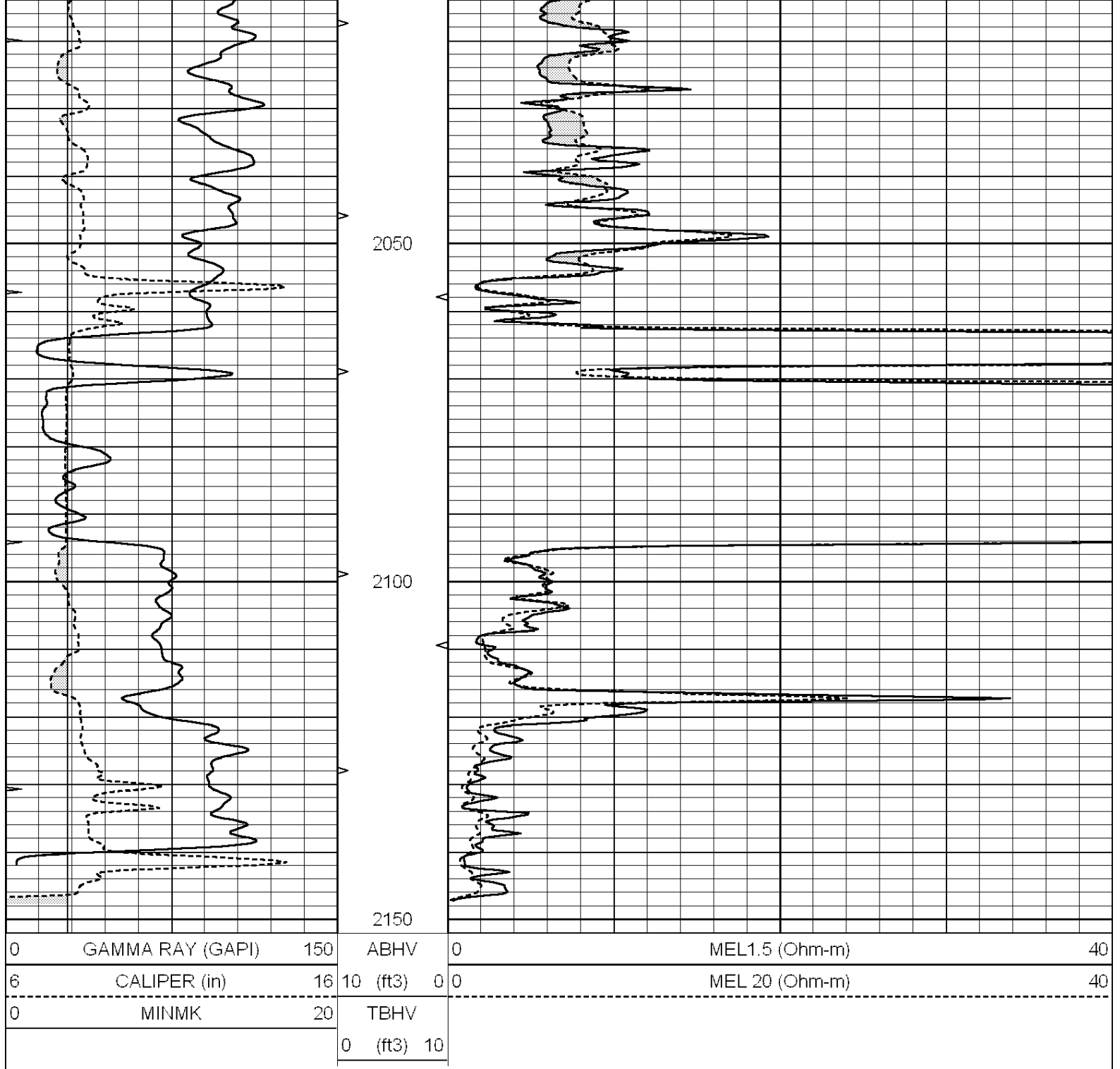
Database File: 26640ddn.db
Dataset Pathname: pass7.1
Presentation Format: micro
Dataset Creation: Mon Sep 28 12:19:12 2015 by Calc SOC 120430
Charted by: Depth in Feet scaled 1:240

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		









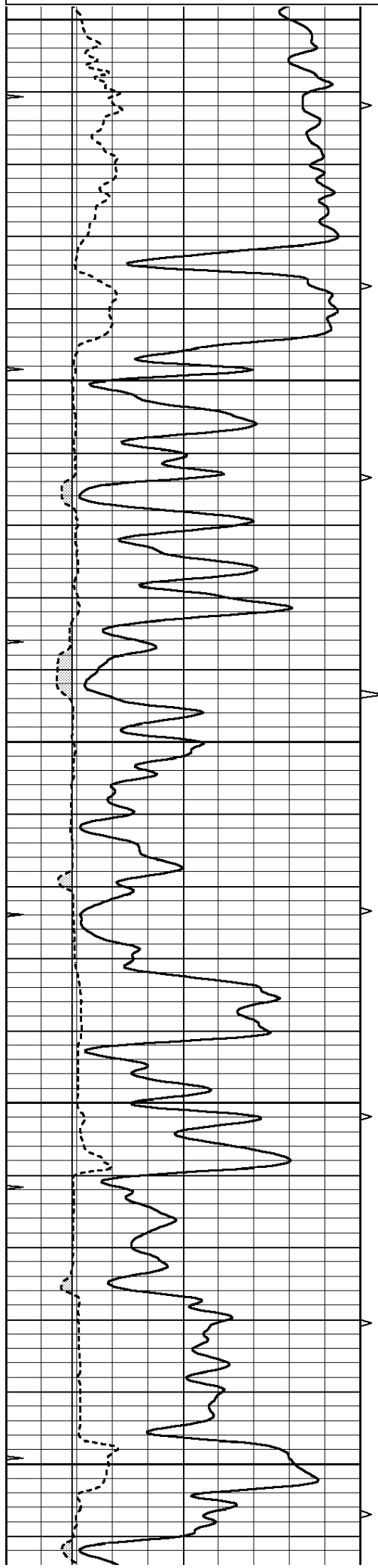
**Casedhole
Solutions**

MAIN SECTION

Database File: 26640ddn.db
 Dataset Pathname: pass6.1
 Presentation Format: micro
 Dataset Creation: Mon Sep 28 11:51:49 2015 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		

0 (115) 10



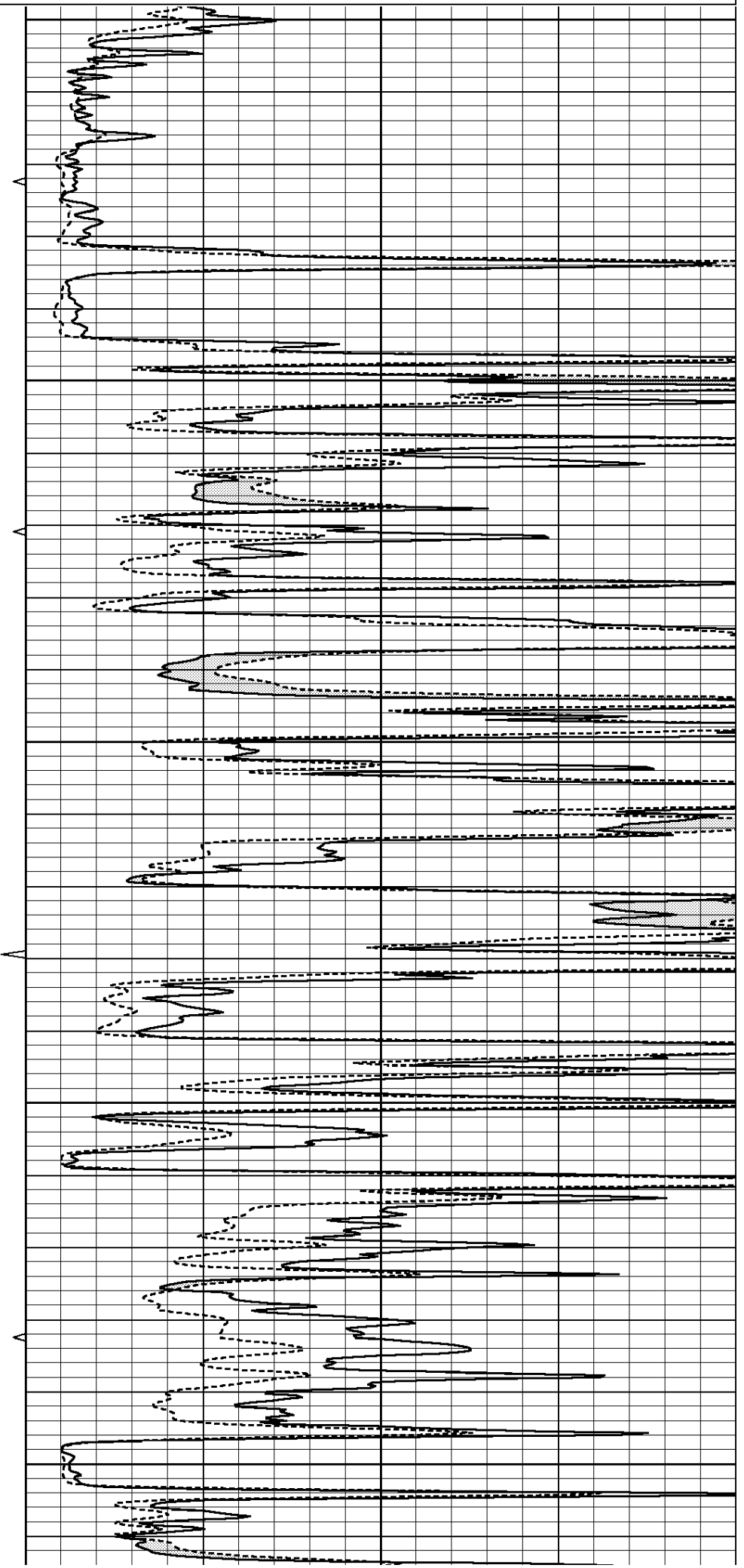
3500

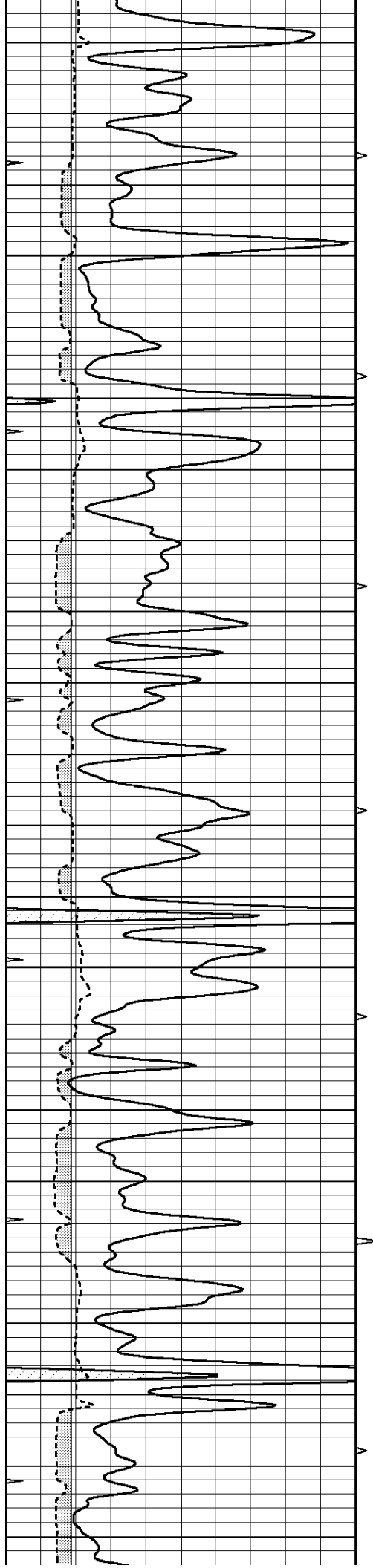
3550

3600

3650

3700



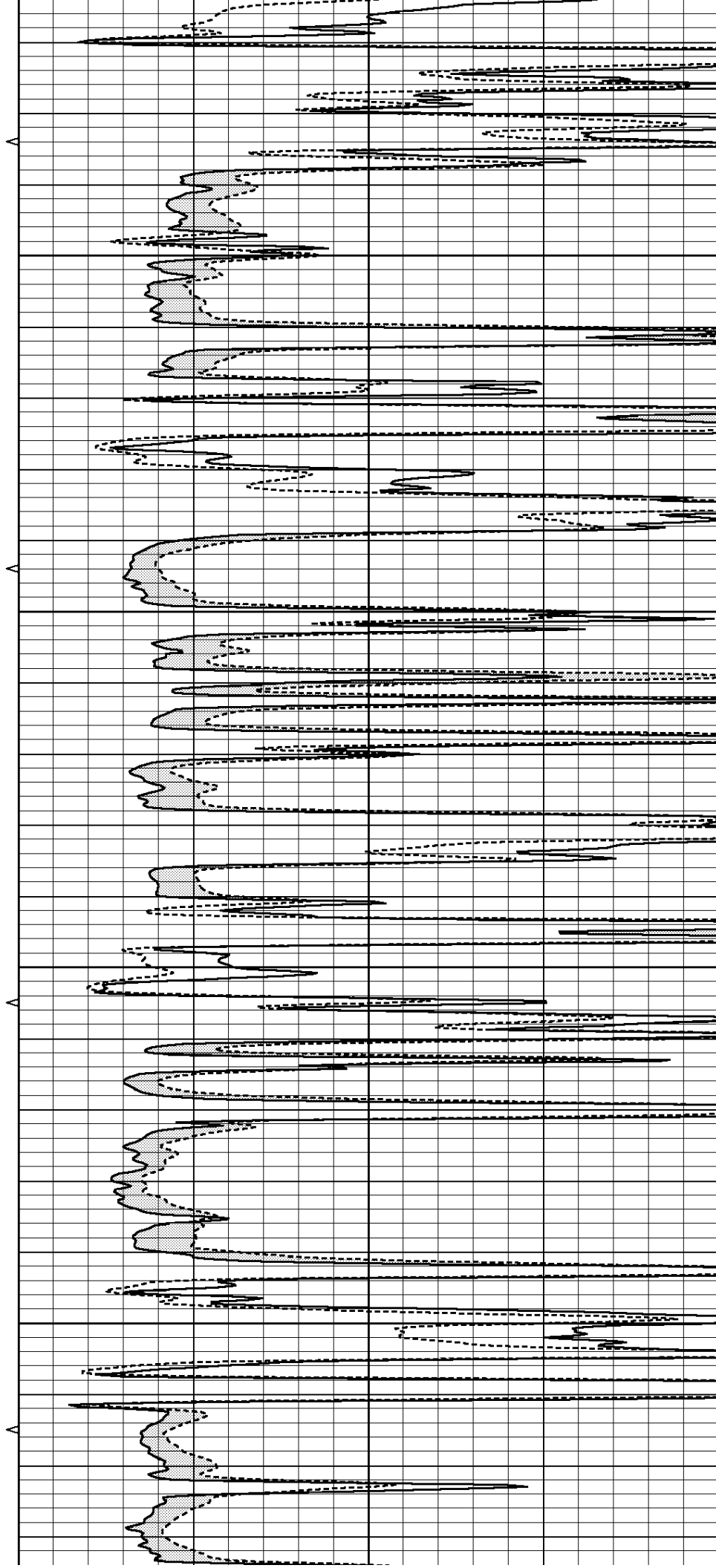


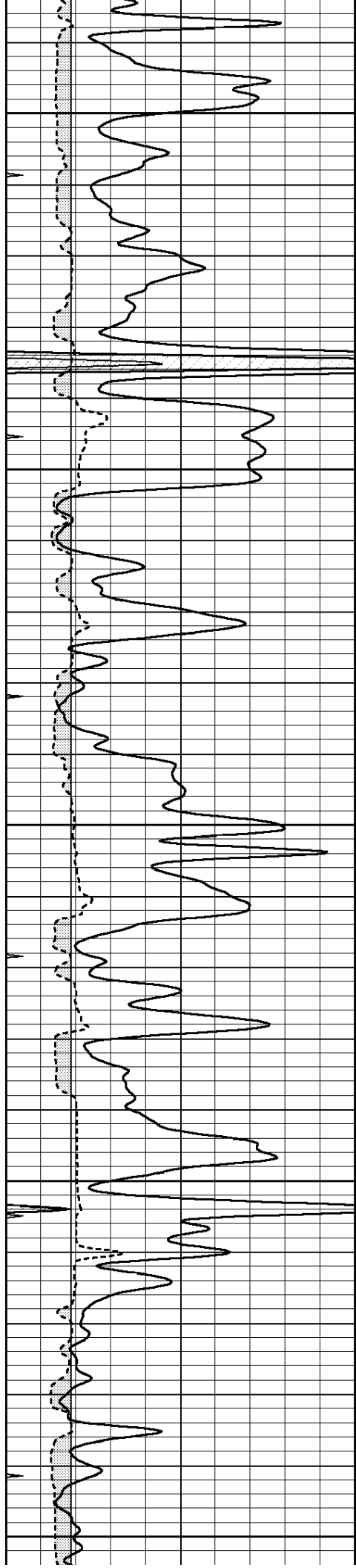
3750

3800

3850

3900





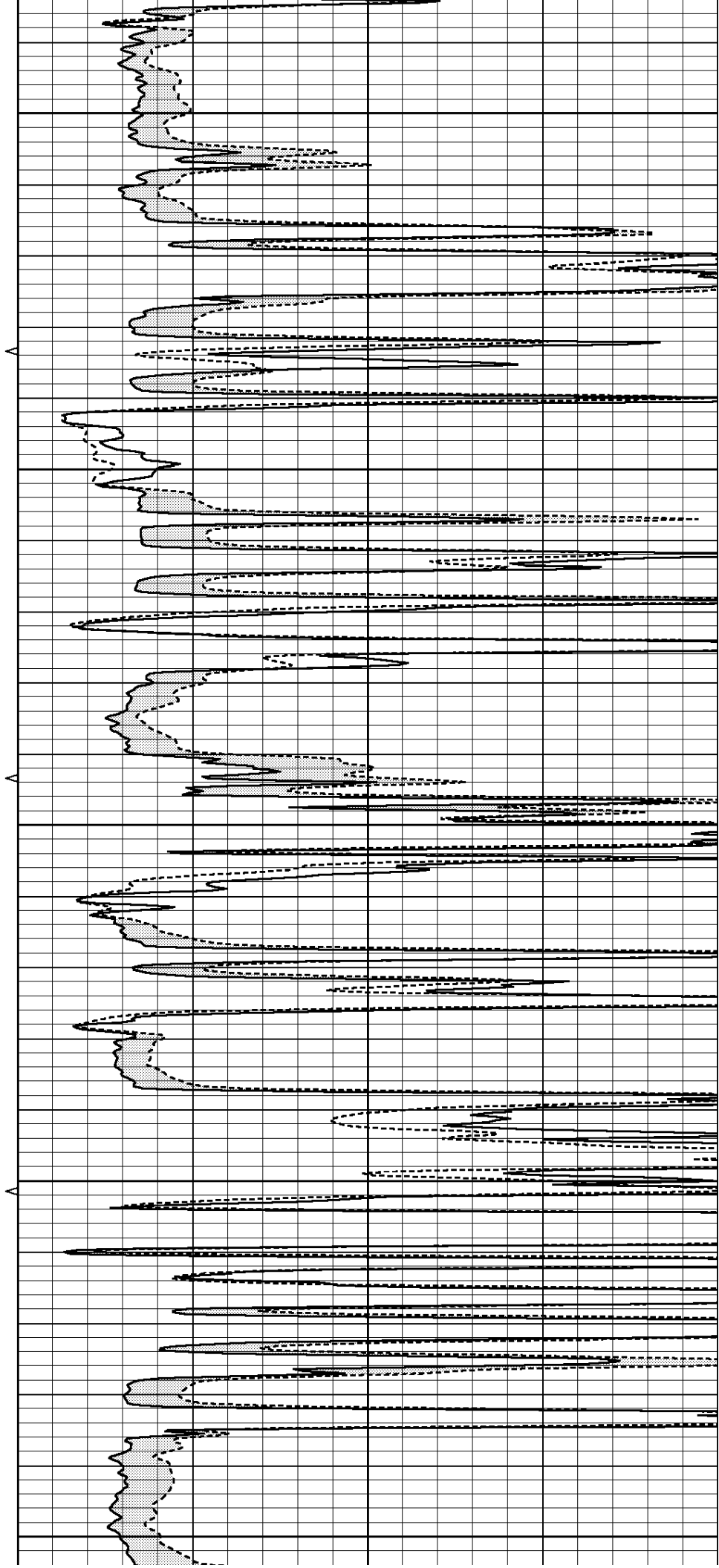
3950

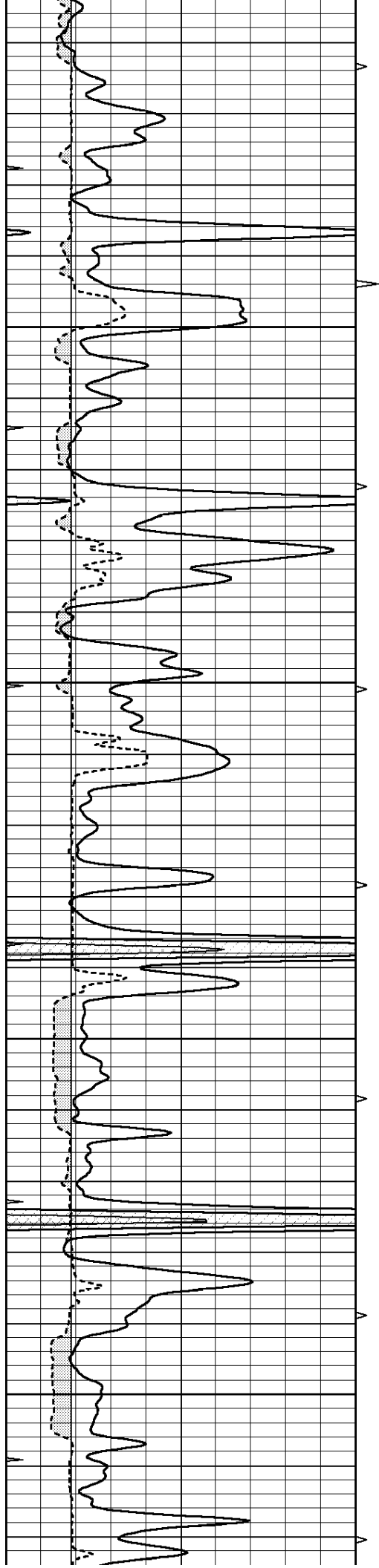
4000

4050

4100

4150



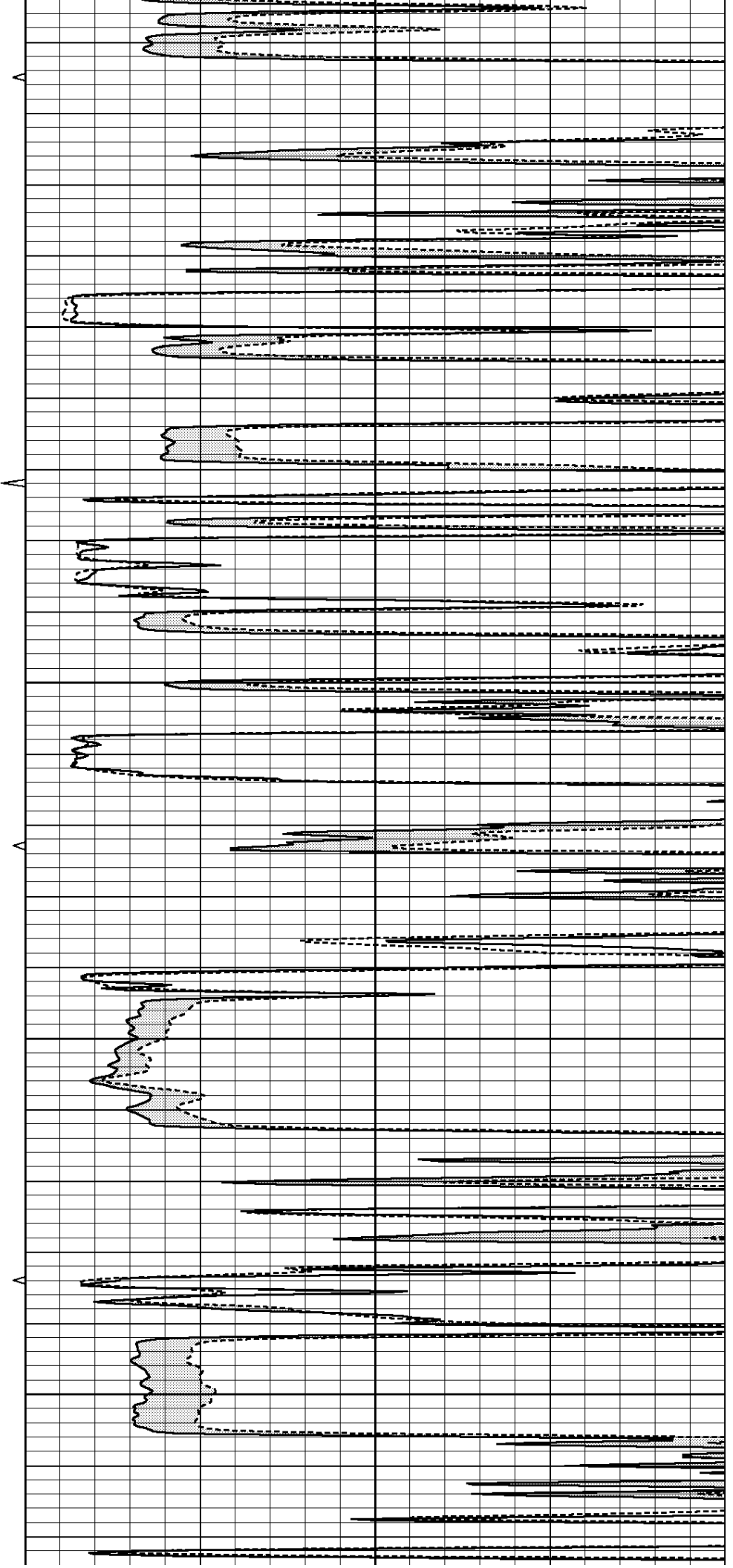


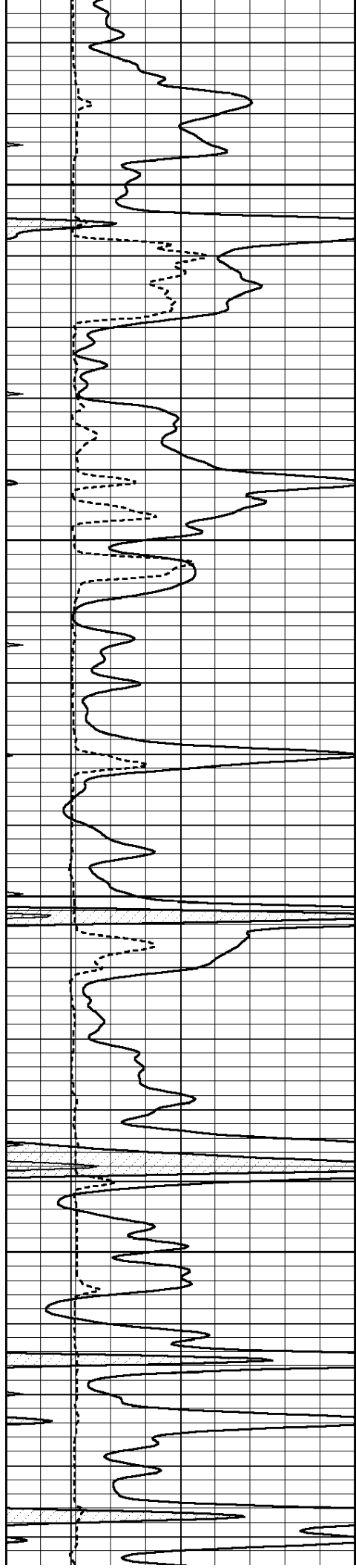
4200

4250

4300

4350



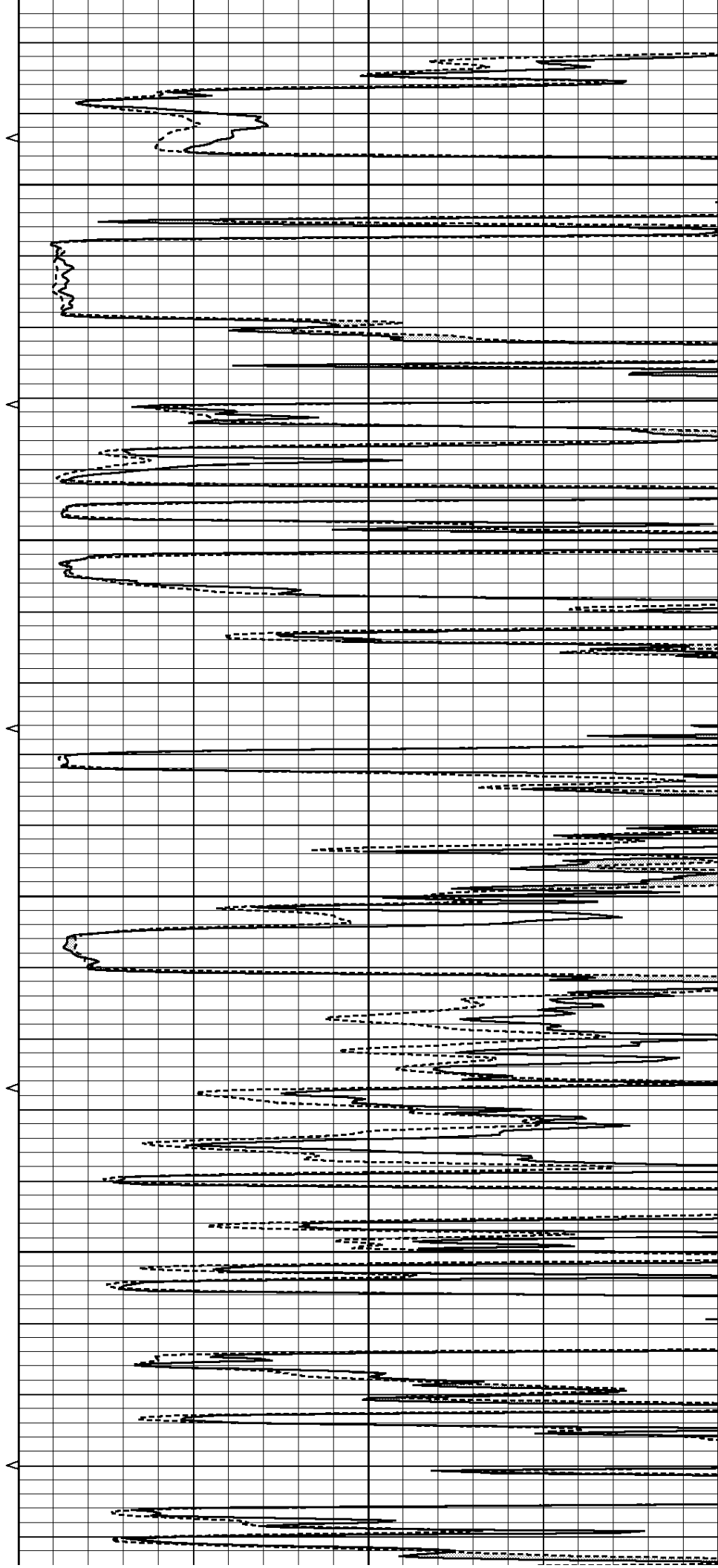


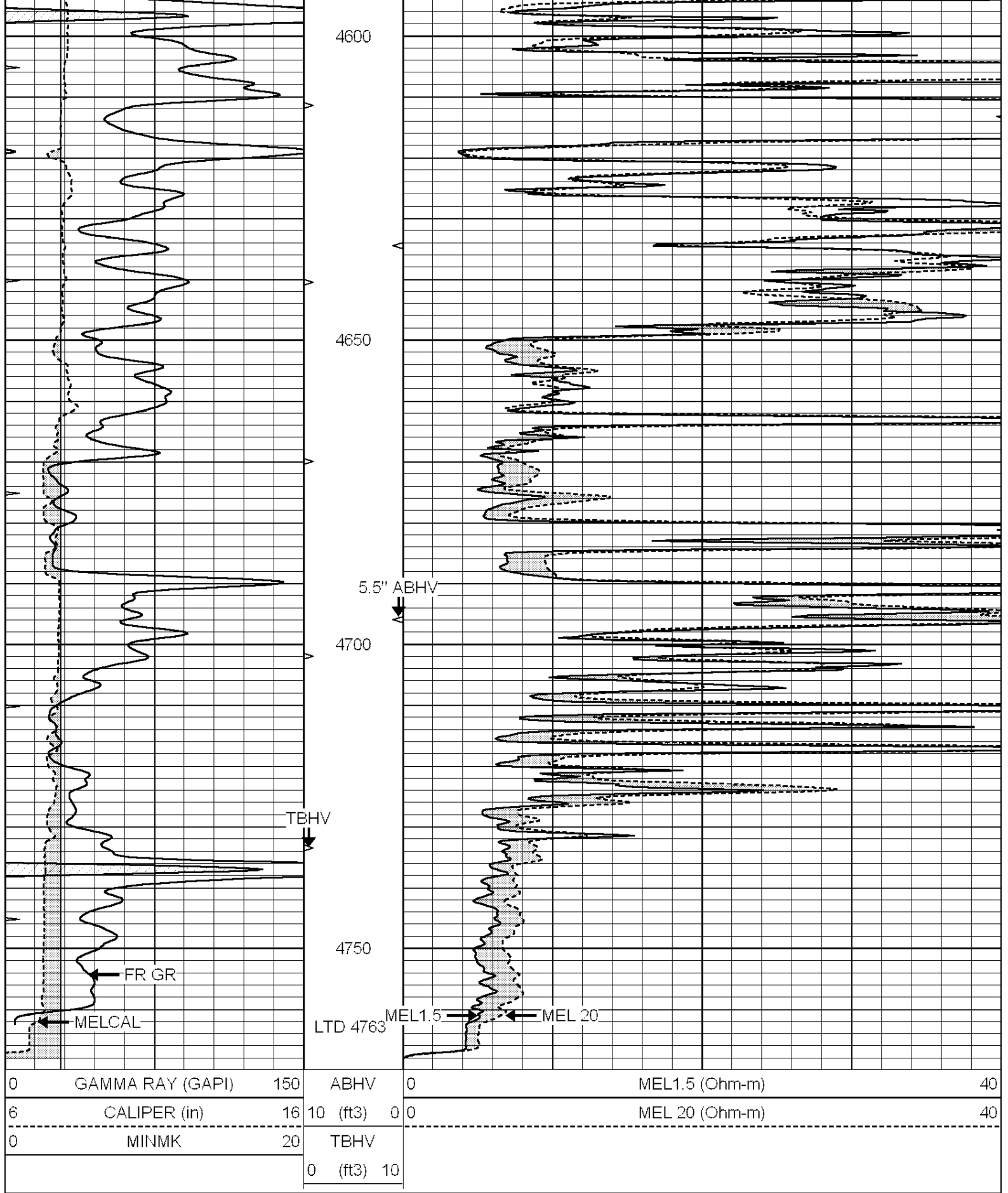
4400

4450

4500

4550



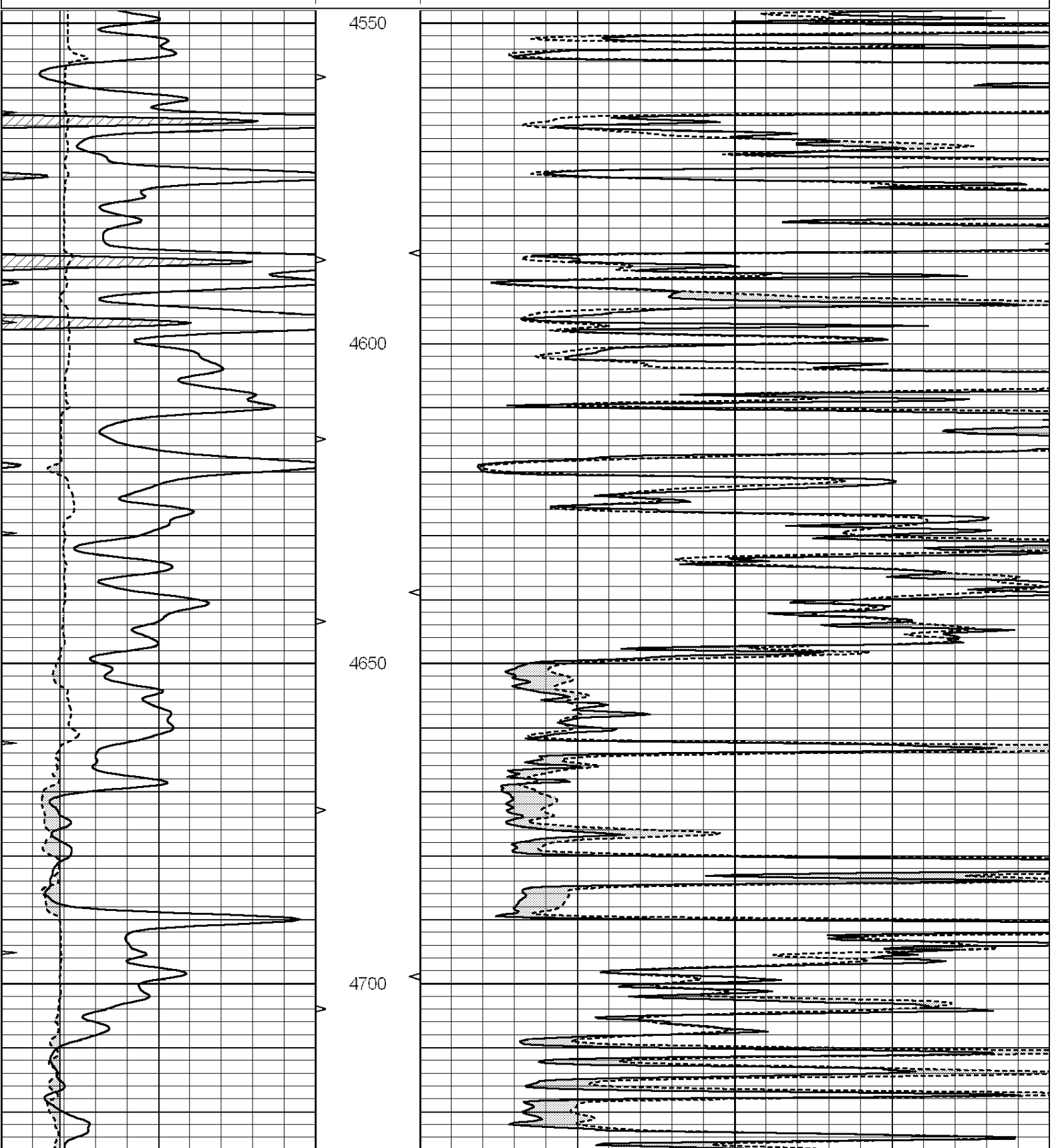


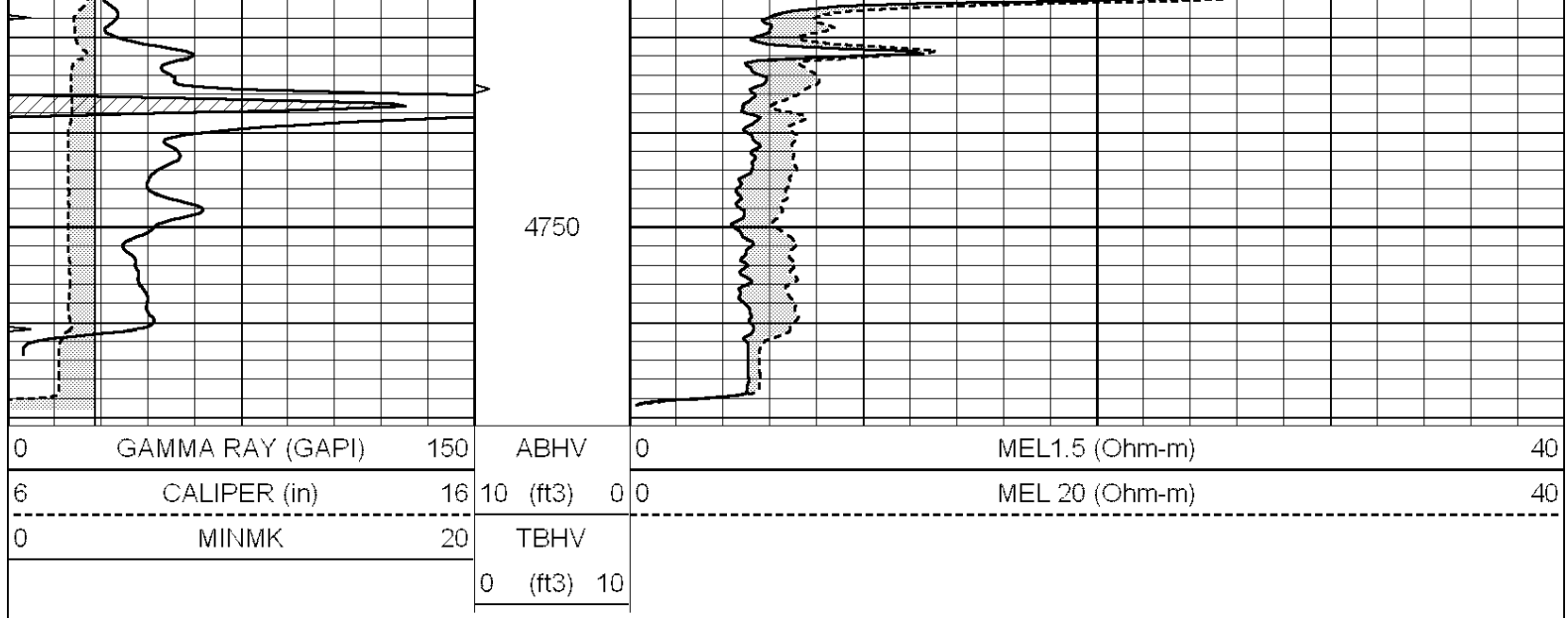
**Casedhole
Solutions**

REPEAT SECTION

Database File: 26640ddn.db
Dataset Pathname: pass5.1
Presentation Format: micro
Dataset Creation: Mon Sep 28 12:21:35 2015 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: 26640ddn.db
Dataset Pathname: pass6.1
Dataset Creation: Mon Sep 28 11:51:49 2015 by Calc SOC 120430

MICRO Calibration Report

Serial Number: 070910
Tool Model: ProbeN
Performed: Fri Jul 31 04:23:24 2015

Caliper Calibration: Gain=4.517 Offset=0.646
References Low Cal High Cal
7.300 15.000
Readings 1.473 3.178

1.5" Calibration: Gain=34.000 Offset=0.300
References Low Cal High Cal
0.000 20.000
Readings 0.000 1.216

2" Calibration: Gain=40.000 Offset=0.000
References Low Cal High Cal
0.000 20.000
Readings 0.002 1.053

Gamma Ray Calibration Report

Serial Number: 070559
Tool Model: OPEN_GR
Performed: Fri Aug 14 01:03:51 2015

Calibrator Value: 1.0 GAPI
Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps
Sensitivity: 0.2200 GAPI/cps