



**COMPLETION
& PRODUCTION
SERVICES CO.**

**MICRO
LOG**

Company	WHITE & ELLIS DRILLING INC.	Company	WHITE & ELLIS DRILLING INC.
Well	CHAIN RANCH A #1	Well	CHAIN RANCH A #1
Field	AMBER CREEK SOUTH	Field	AMBER CREEK SOUTH
County	BARBER	County	BARBER
State	KANSAS	State	KANSAS
Location:	API # : 15-007-24161-00-00 3070' FSL & 2310' FEL	Other Services CNL/CDL/PE DIL SONIC	
Permanent Datum	GROUND LEVEL	Elevation	
Log Measured From	KELLY BUSHING 10' A.G.L.	K.B. 1608 D.F. 1606 G.L. 1598	
Drilling Measured From	KELLY BUSHING		
Date	5-7-14		
Run Number	TW0		
Depth Driller	4675		
Depth Logger	4670		
Bottom Logged Interval	4652		
Top Log Interval	3200		
Casing Driller	13 3/8" @ 337'		
Casing Logger	350'		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 34.00 PPM	
Density / Viscosity	9.4/7.1		
pH / Fluid Loss	11.5/9.0		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	0.60 @ 96F		
Rmf @ Meas. Temp	0.45 @ 96F		
Rmc @ Meas. Temp	0.72 @ 96F		
Source of Rmf / Rmc	MEASUREMENT		
Rim @ BHT	0.47 @ 122F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	122F		
Equipment Number	860		
Location	HAYS, KANSAS		
Recorded By	IAN MABB		
Witnessed By	DAVID GOULD		

<<< 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

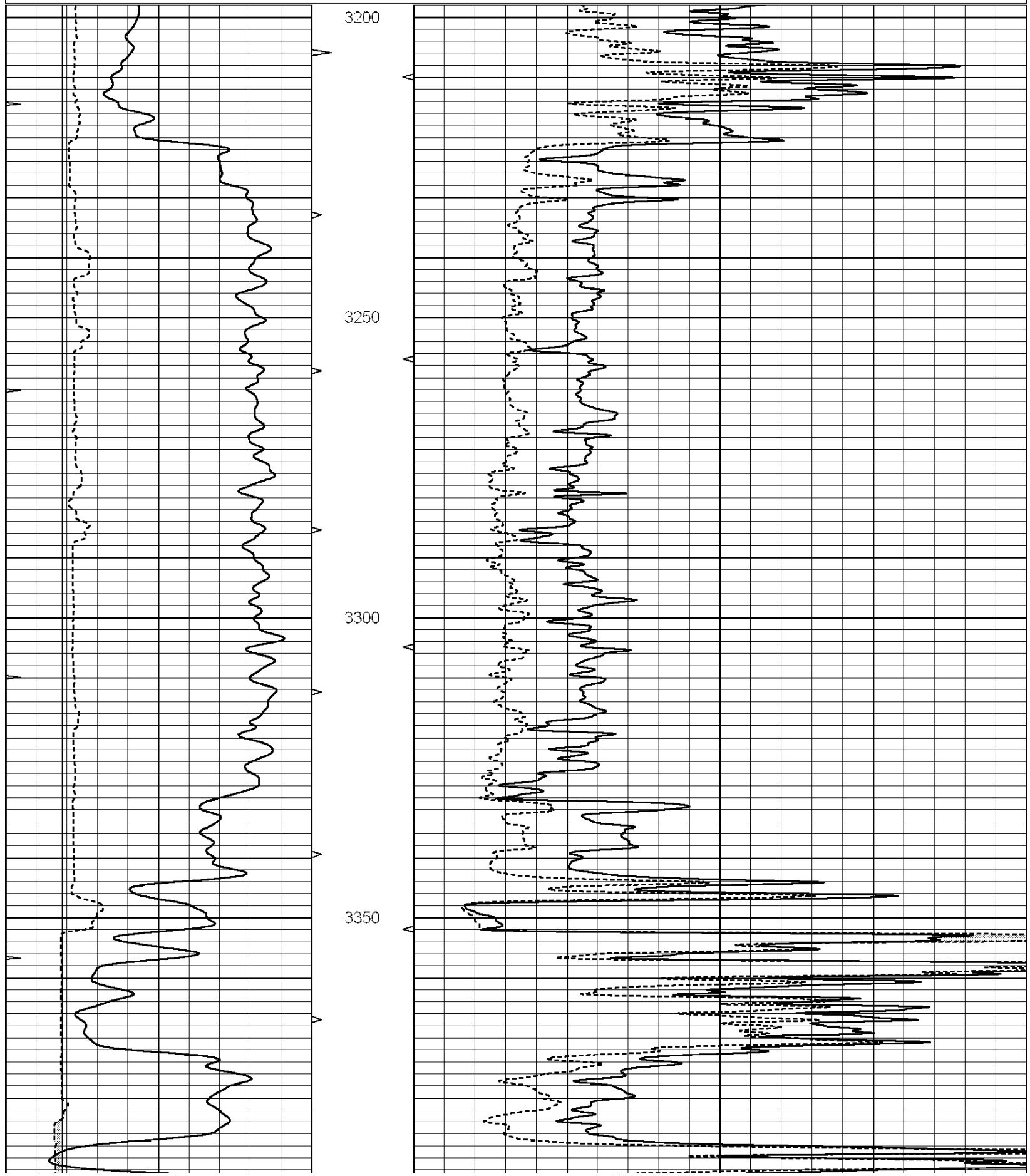
THANK YOU FOR USING "NABORS" HAYS, KANSAS (785) 628-6395

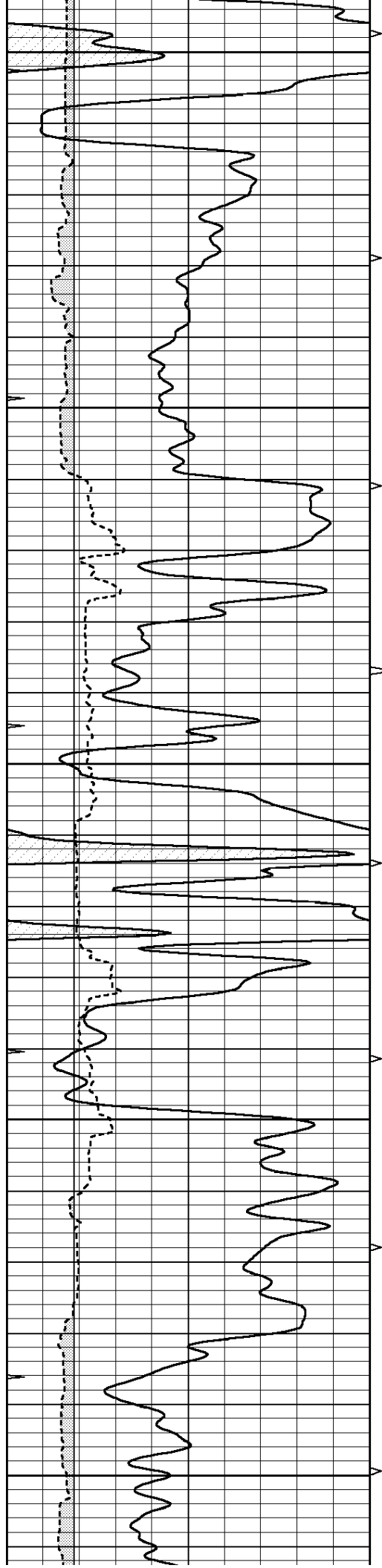
DIRECTIONS:

SAWYER, KS. - 10 MILES SOUTH TO 99 SPRINGS RD. - NE 1/2 MILE GAILLANDIA RD. - EAST 1/2 MILE - 1 1/2 MILE SOUTH INTO

0	GAMMA RAY (GAPI)	150
6	MELCAL (in)	16
0	MINMK	20

0	MEL1.5 (Ohm-m)	40
0	MEL2.0 (Ohm-m)	40





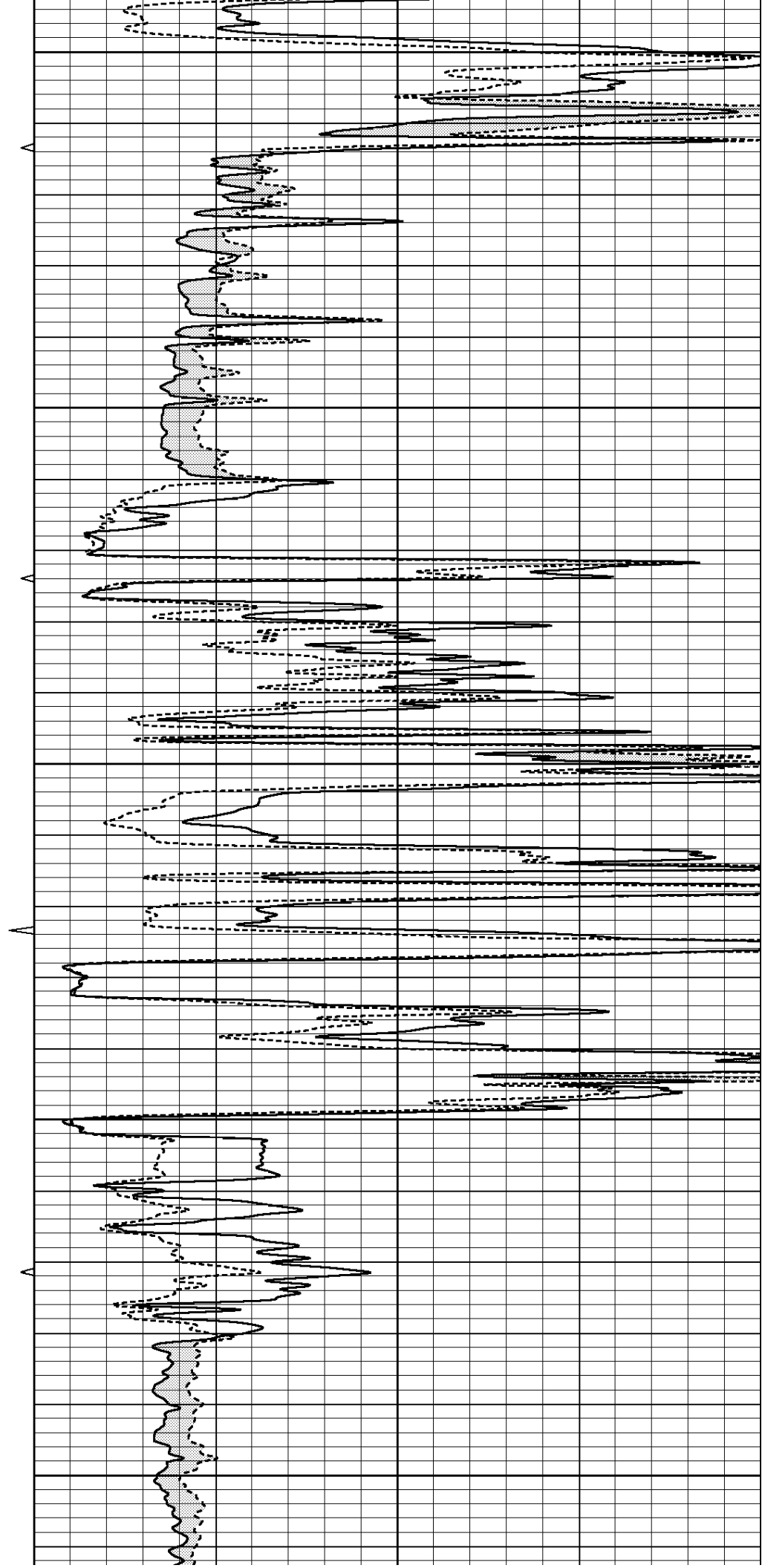
3400

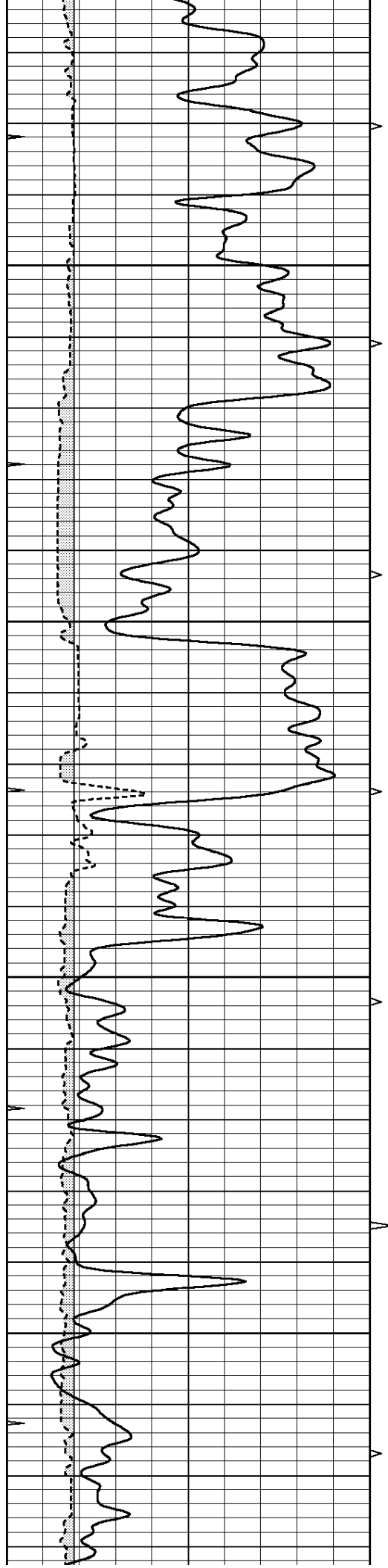
3450

3500

3550

3600



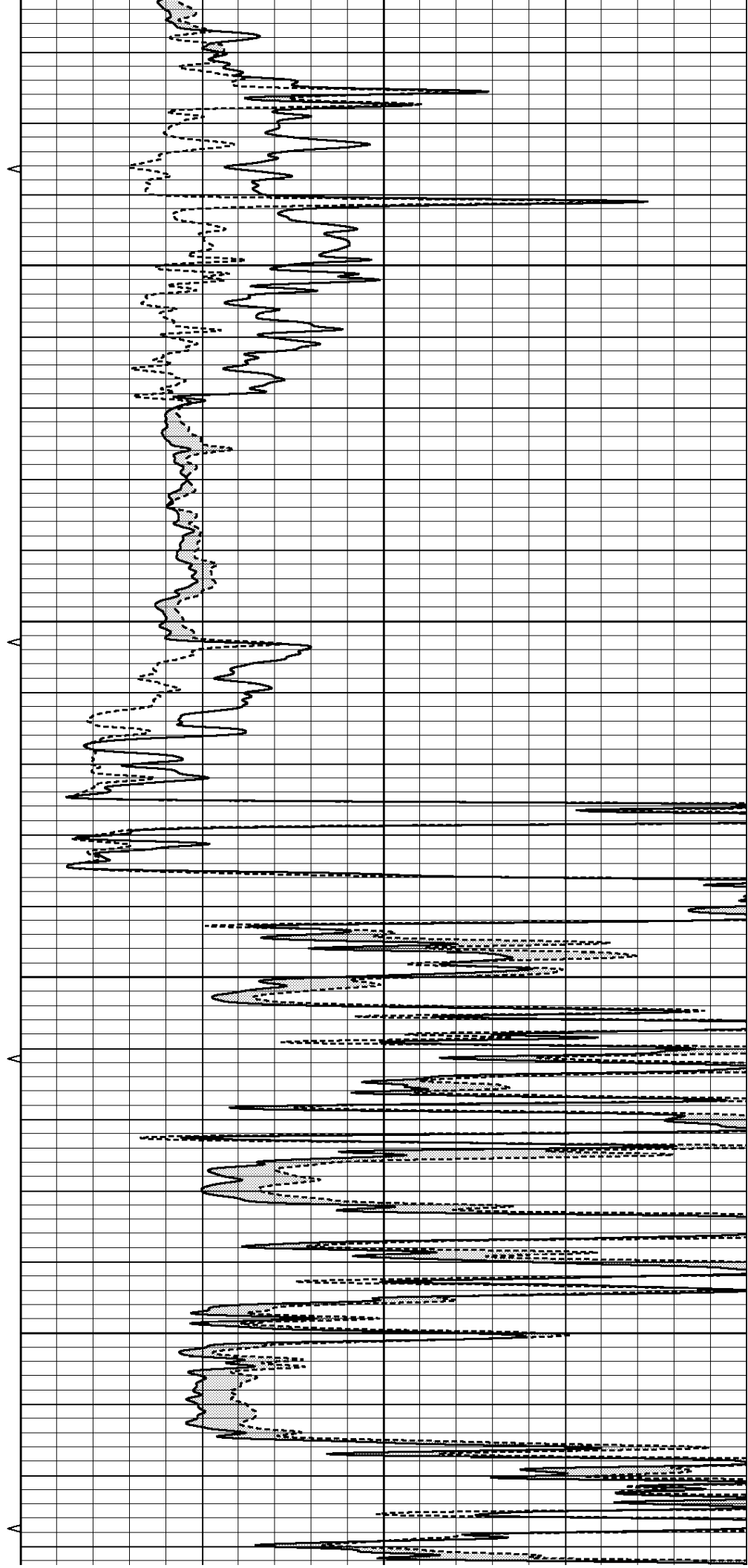


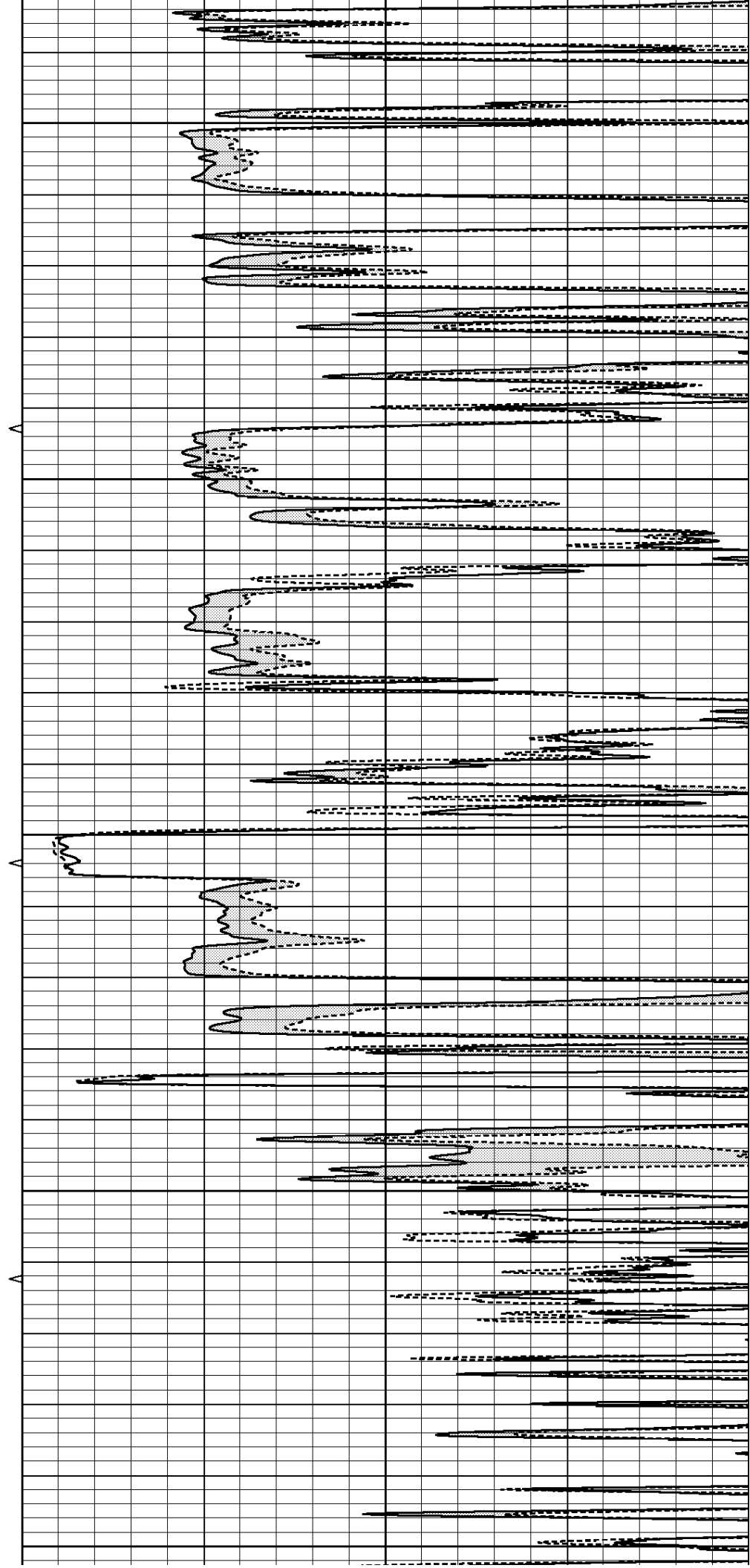
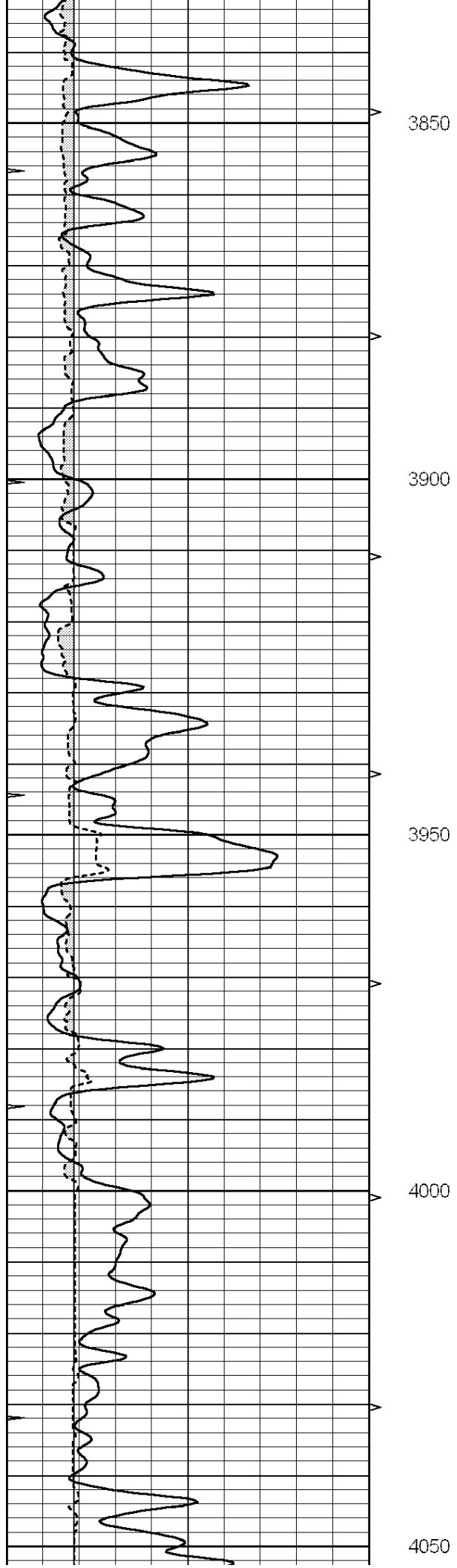
3650

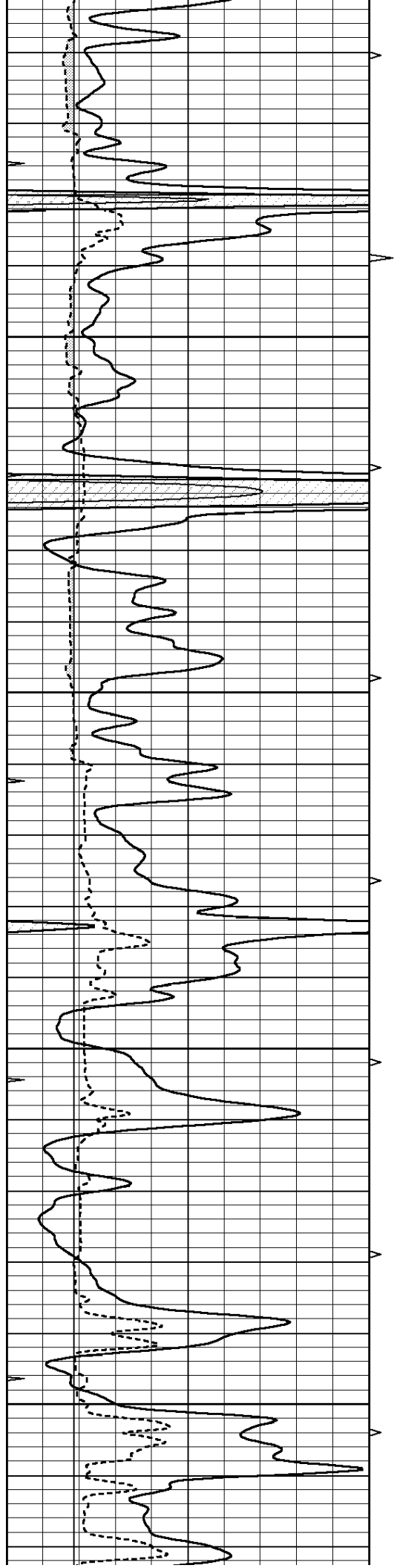
3700

3750

3800





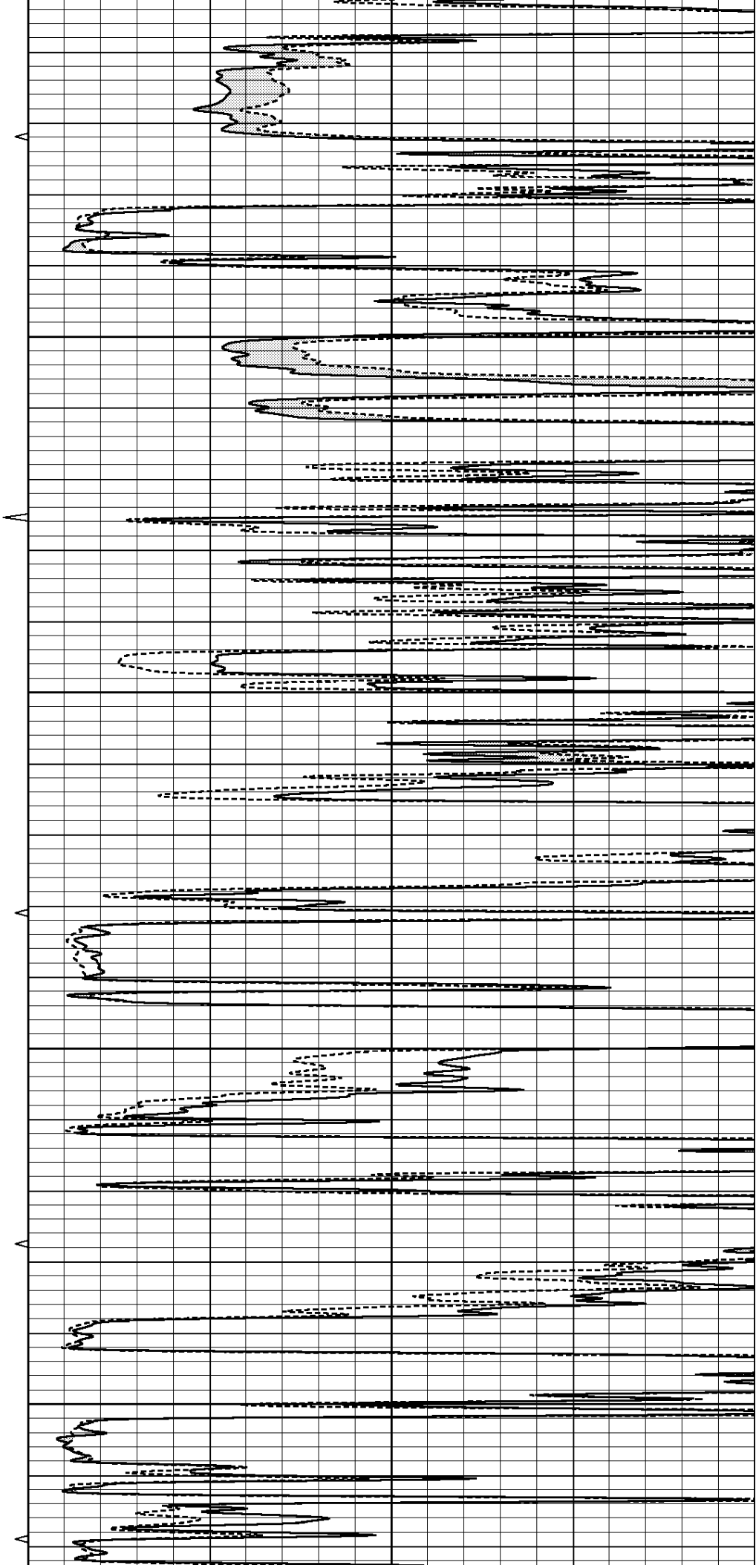


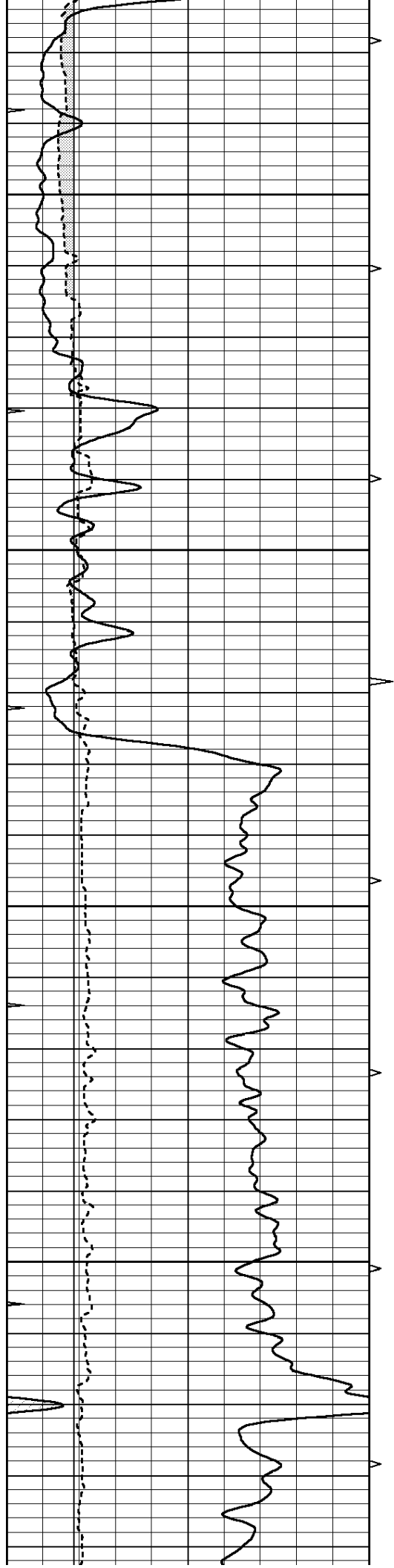
4100

4150

4200

4250



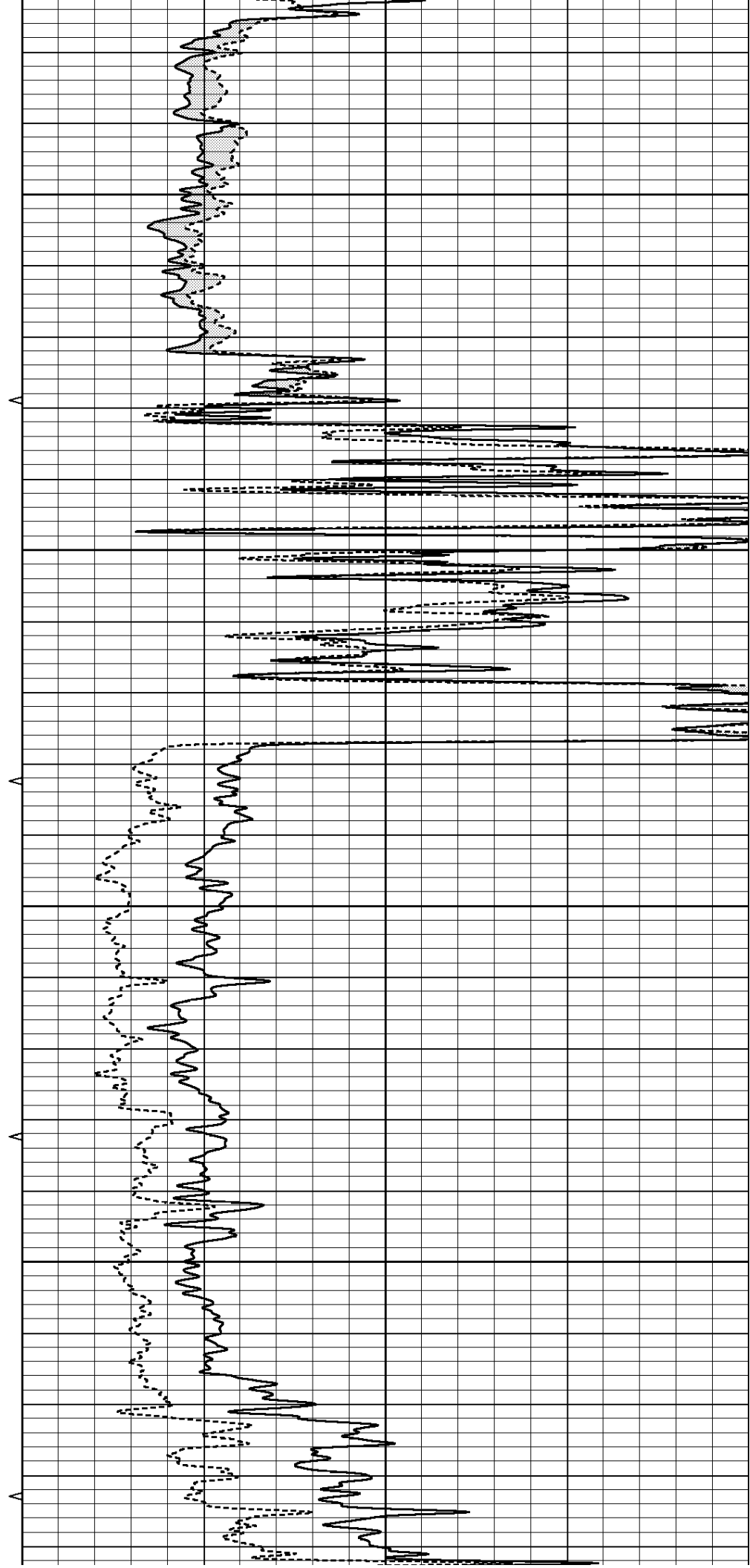


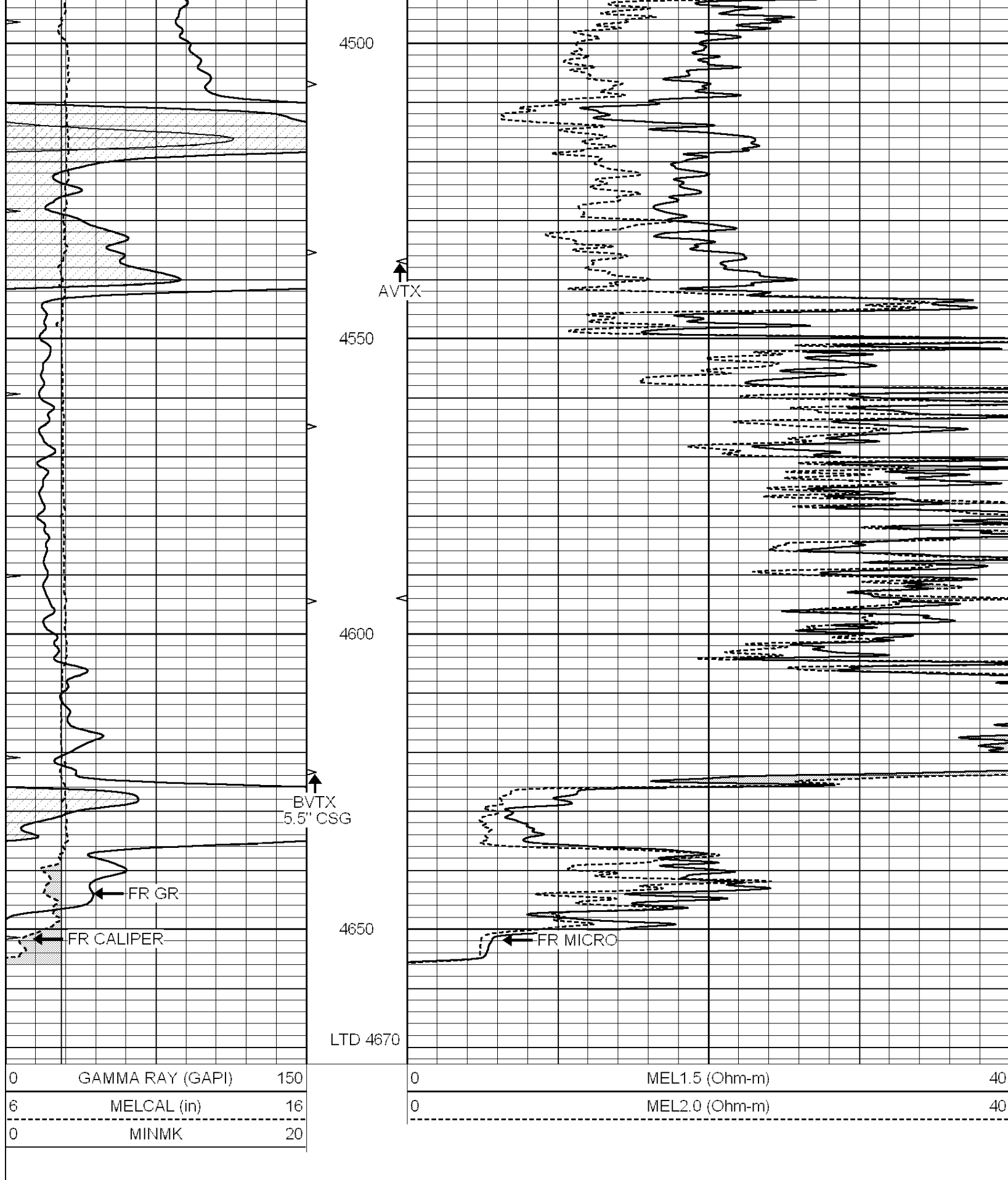
4300

4350

4400

4450





COMPLETION
& PRODUCTION

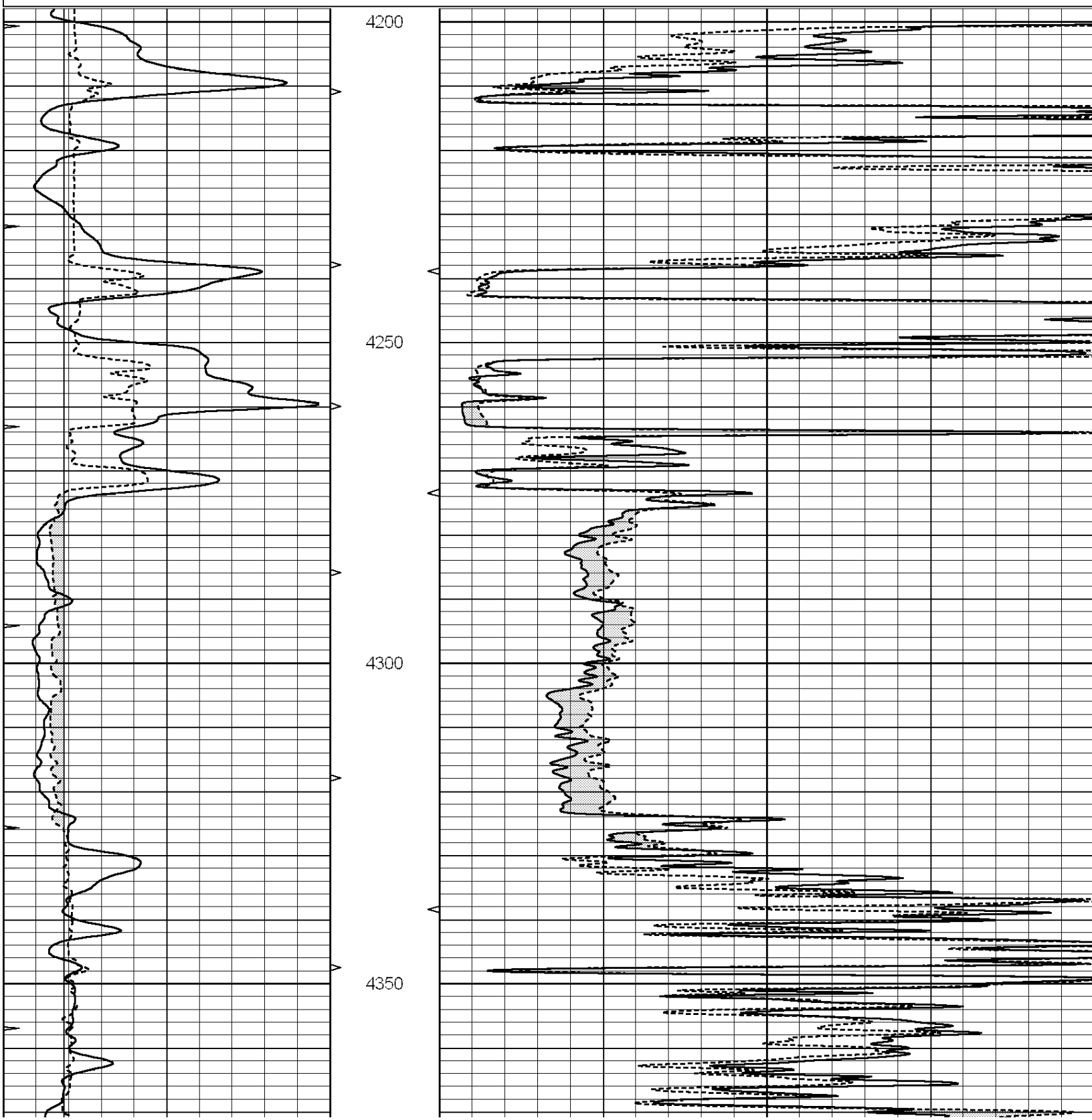
REPEAT SECTION

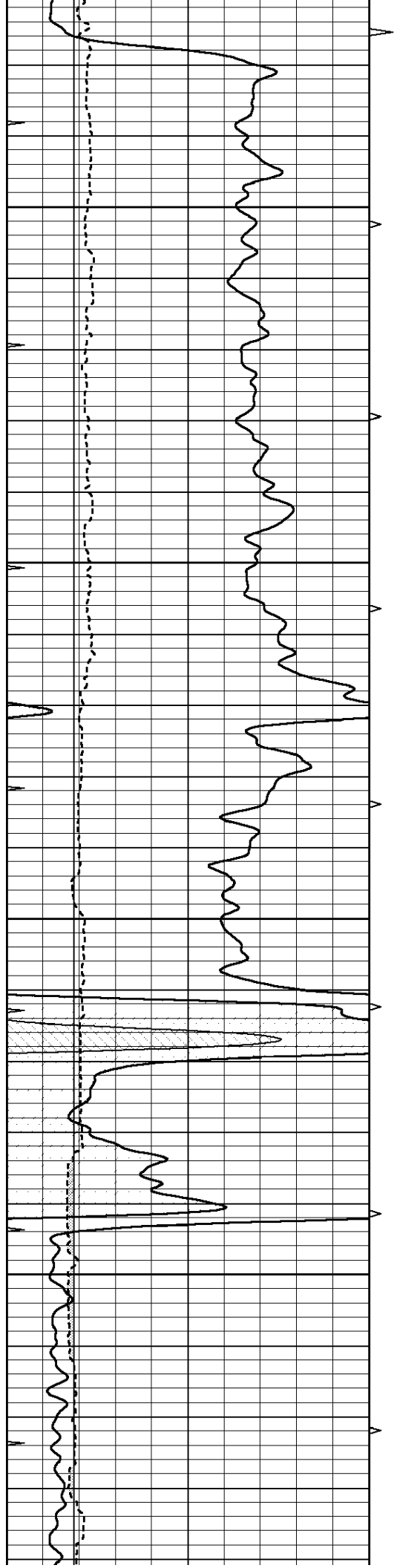
& PRODUCTION SERVICES CO.

Database File: 24427pe.db
 Dataset Pathname: pass5.1
 Presentation Format: _micro
 Dataset Creation: Wed May 07 15:56:10 2014 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
6	MELCAL (in)	16
0	MINMK	20

0	MEL1.5 (Ohm-m)	40
0	MEL2.0 (Ohm-m)	40



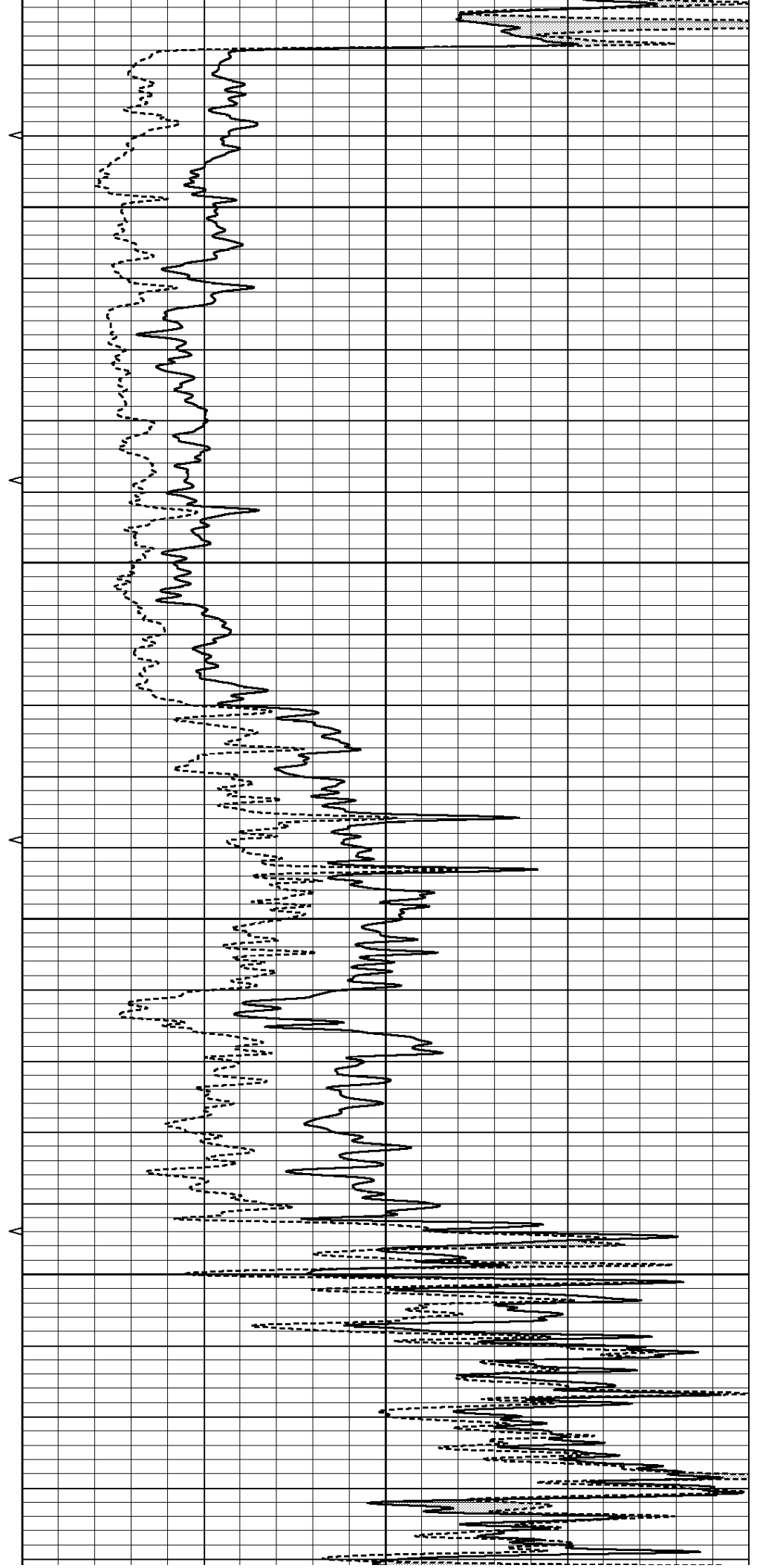


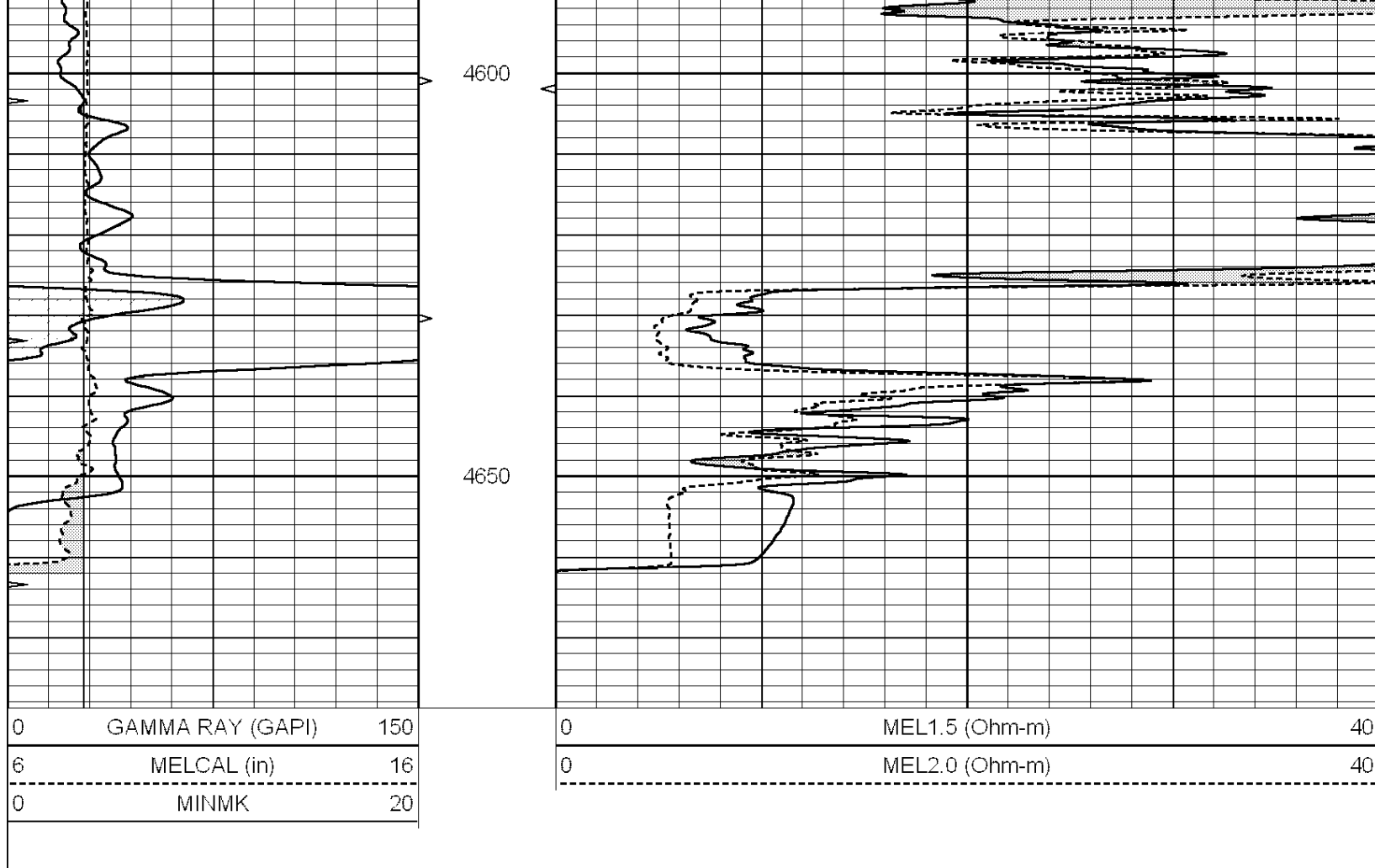
4400

4450

4500

4550





Calibration Report

Database File: 24427pe.db
 Dataset Pathname: pass6.1
 Dataset Creation: Wed May 07 16:28:56 2014 by Calc Open-Cased 090629

MICRO Calibration Report

Serial Number:	MICRO4	
Tool Model:	PROBE	
Performed:	Mon May 05 02:09:36 2014	
Caliper Calibration:	Gain=2.847	Offset=-9.200
References	Low Cal	High Cal
Readings	8.600	14.000
	5.934	7.767
1.5" Calibration:	Gain=42.000	Offset=-1.000
References	Low Cal	High Cal
Readings	0.000	20.000
	0.013	1.547
2" Calibration:	Gain=45.000	Offset=-0.600
References	Low Cal	High Cal
Readings	0.000	20.000
	0.017	1.202

Gamma Ray Calibration Report

Serial Number: GR2
 Tool Model: OPEN

Performed: Mon May 05 02:39:30 2014

Calibrator Value: 200.0 GAPI

Background Reading: 0.0 cps

Calibrator Reading: 740.0 cps

Sensitivity: 0.3400 GAPI/cps