



SUPERIOR
Hays,
Kansas

DUAL
INDUCTION
LOG

Company LOTUS OPERATING COMPANY, LLC.	
Well #5 WETZ B	
Field	
County BARBER	State KANSAS
Location: API # : 15-007-23589-0000	
2200' FNL & 1680' FEL	
SEC 36 TWP 34S RGE 12W	
Permanent Datum GROUND LEVEL Elevation 1363	Other Services CDL/CNL/PE MEL/SON
Log Measured From KELLY BUSHING 9' A.G.L.	
Drilling Measured From KELLY BUSHING	Elevation K.B. 1371 D.F. 1369 G.L. 1363
Date 9-19-10	
Run Number ONE	
Depth Driller 5243	
Depth Logger 5262	
Bottom Logged Interval 5260	
Top Log Interval 0	
Casing Driller 10 3/4" @ 266	
Casing Logger 265	
Bit Size 7 7/8	
Type Fluid in Hole CHEMICAL MUD	CHLORIDES 6300 PPM
Density / Viscosity 9.3/54	
pH / Fluid Loss 9.0/11.2	
Source of Sample FLOWLINE	
Rm @ Meas. Temp .80 @ 92F	
Rmf @ Meas. Temp .60 @ 92F	
Rmc @ Meas. Temp .96 @ 92F	
Source of Rmf / Rmc MEASURED	
Rm @ BHT .58 @ 127F	
Time Circulation Stopped 2 HOURS	
Time Logger on Bottom	
Maximum Recorded Temperature 127F	
Equipment Number 680	
Location HAYS, KS.	
Recorded By JEFF GRONEMEG	
Witnessed By TIM HELLMAN	

<<< 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

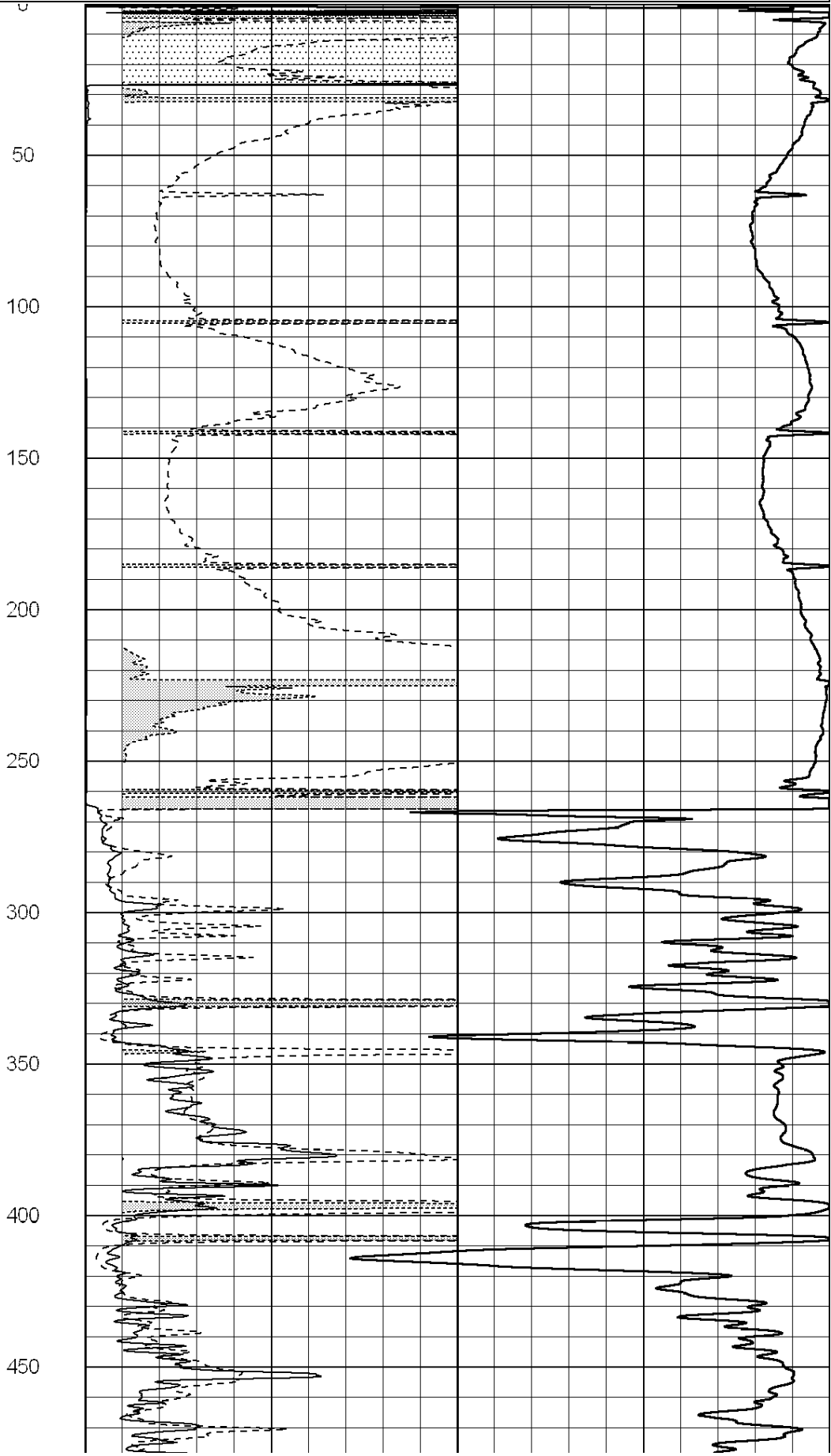
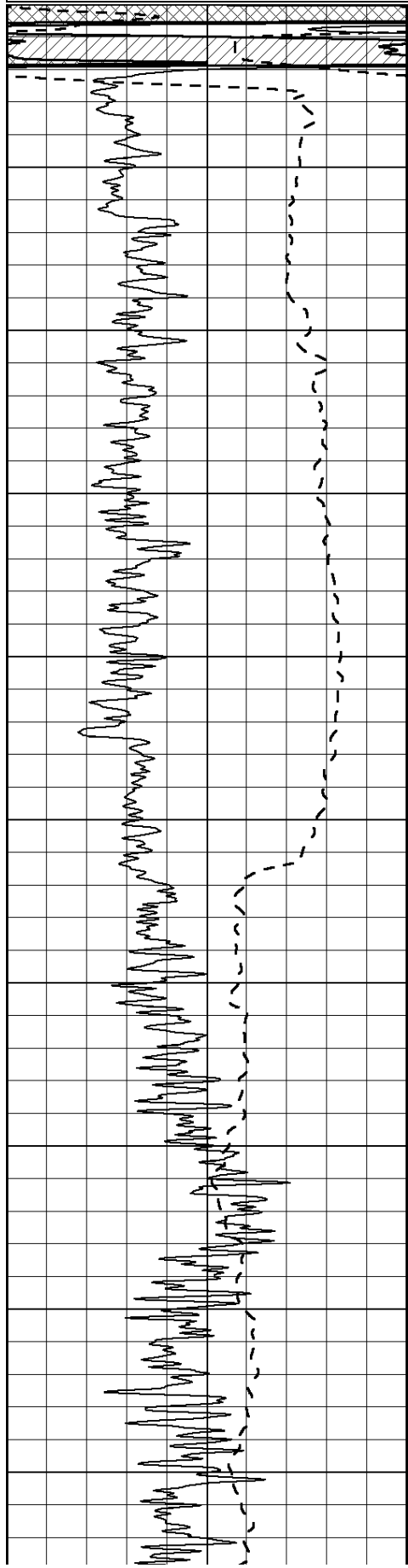
THANK YOU FOR USING SUPERIOR WELL SERVICE (785) 628-6395
DIRECTIONS
MEDICINE LODGE, KS - 15 MILES SOUTH TO RATTLESNAKE TRAIL
1/4 MILE WEST - NORTH INTO

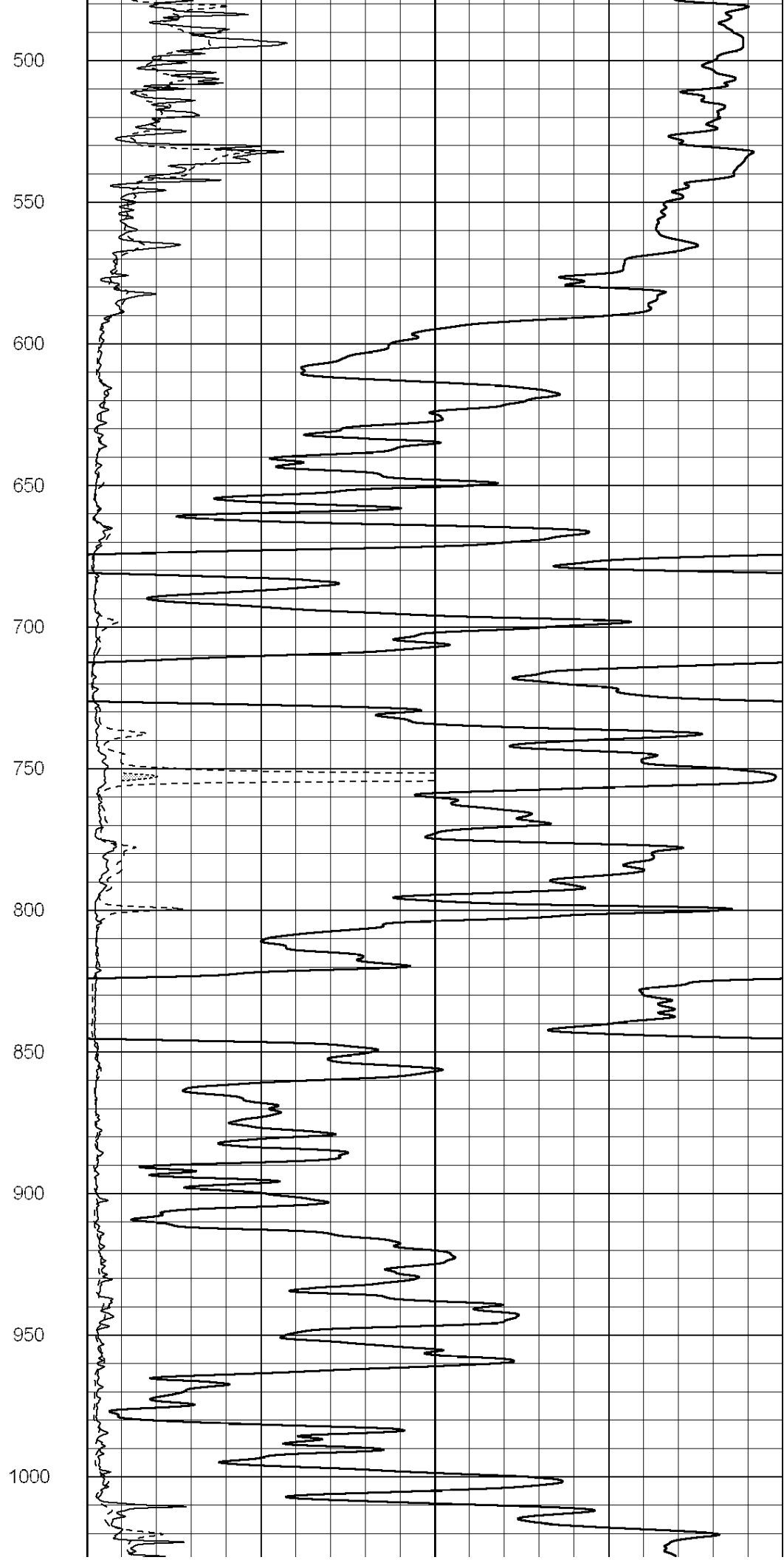
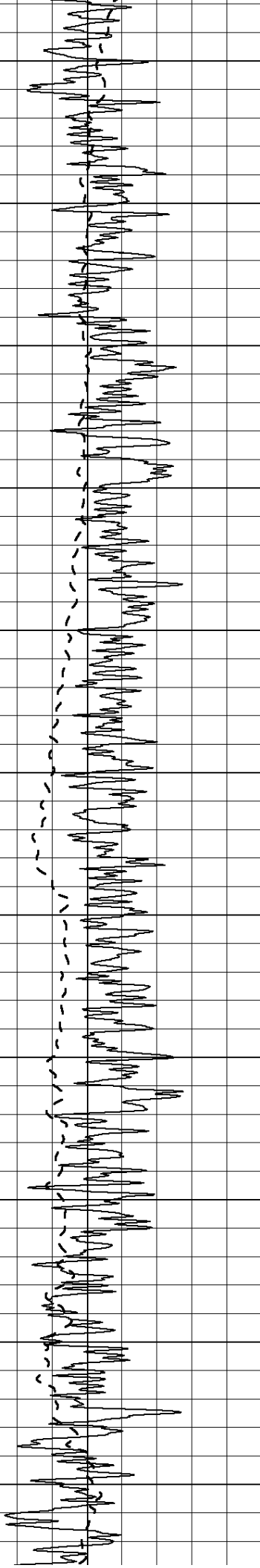
Charted by: Depth (m) not scaled (feet)		
0	Gamma Ray (GAPI)	150
-100	SP (mV)	100

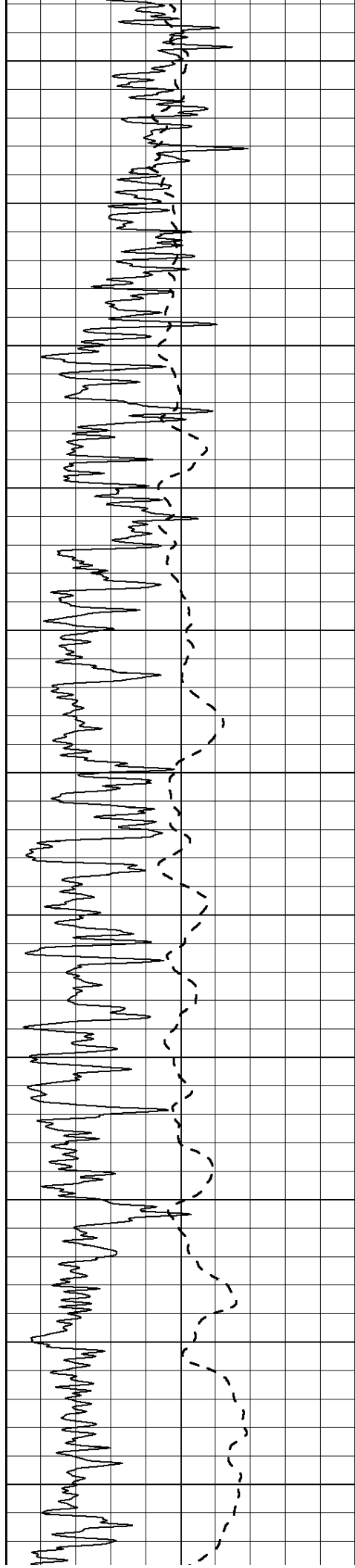
0	RLL3 (Ohm-m)	50
0	Deep Induction (Ohm-m)	50

1000	CILD (mmho/m)	0

50	RILD X10 (Ohm-m)	500
50	RLL3 X10 (Ohm-m)	500







1050

1100

1150

1200

1250

1300

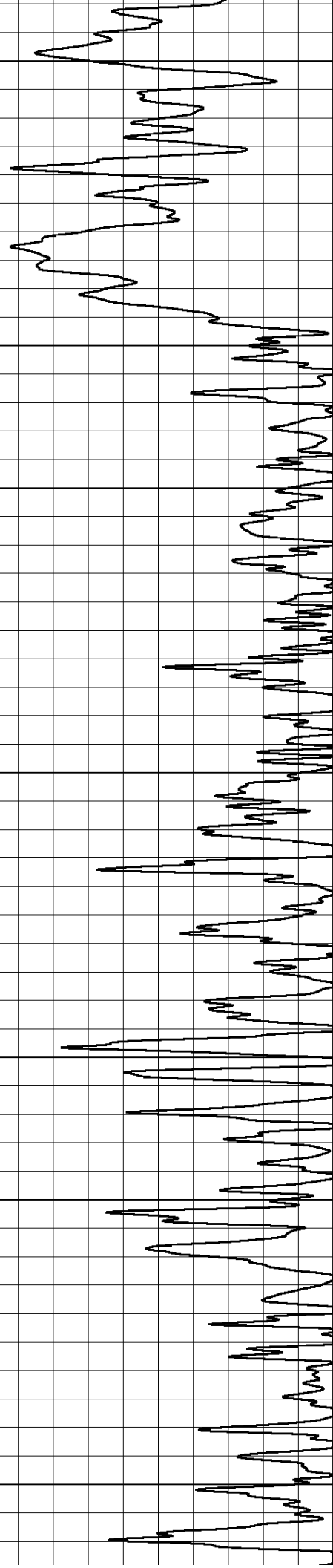
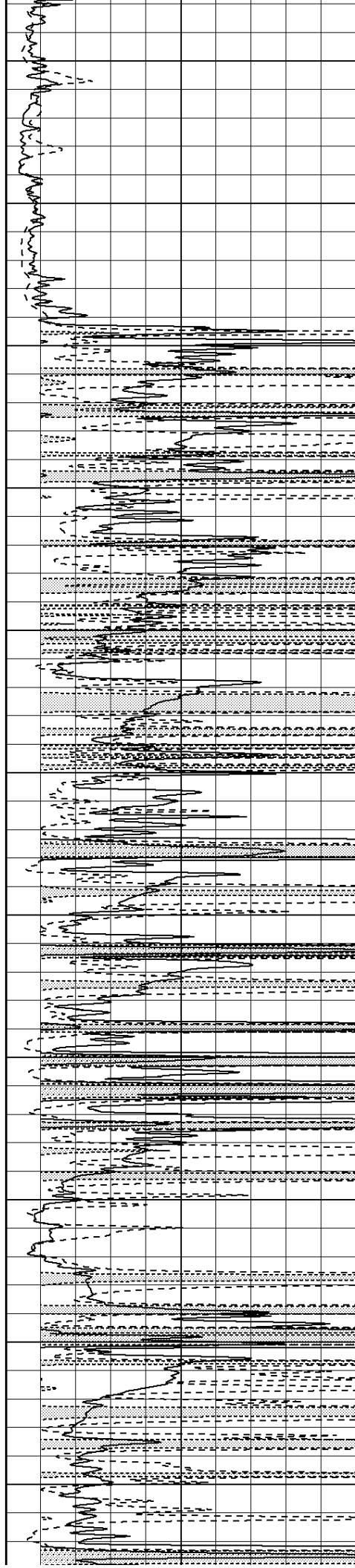
1350

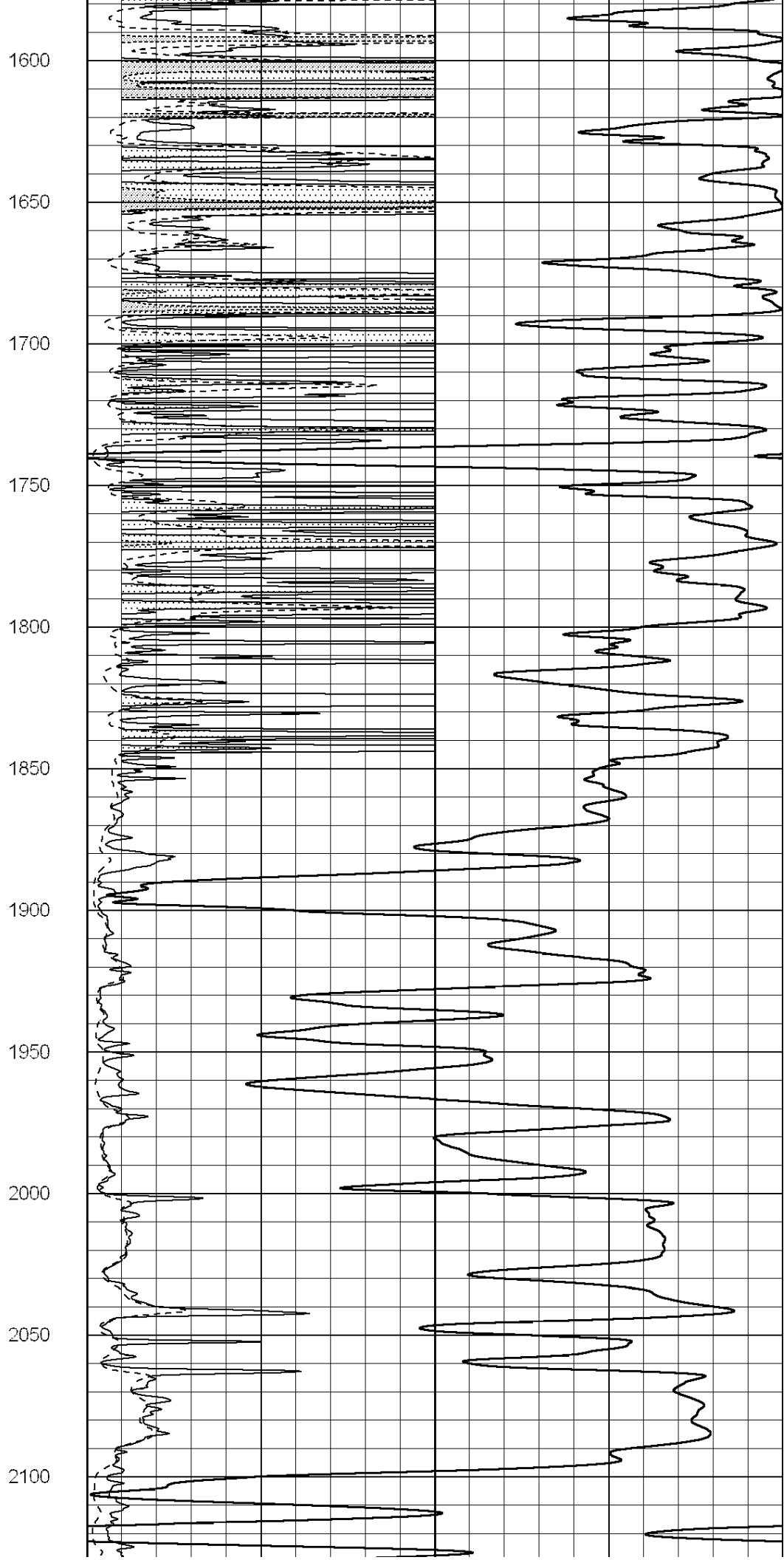
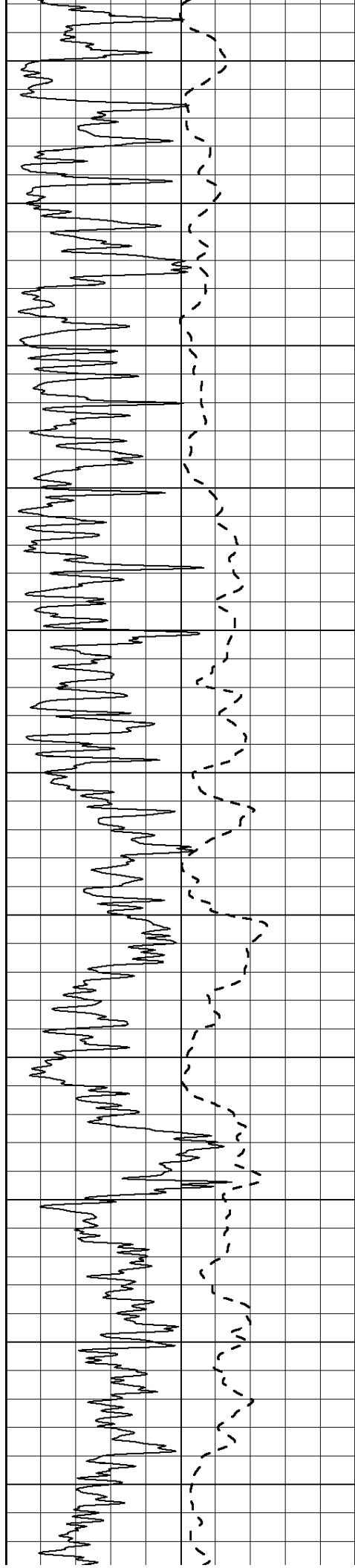
1400

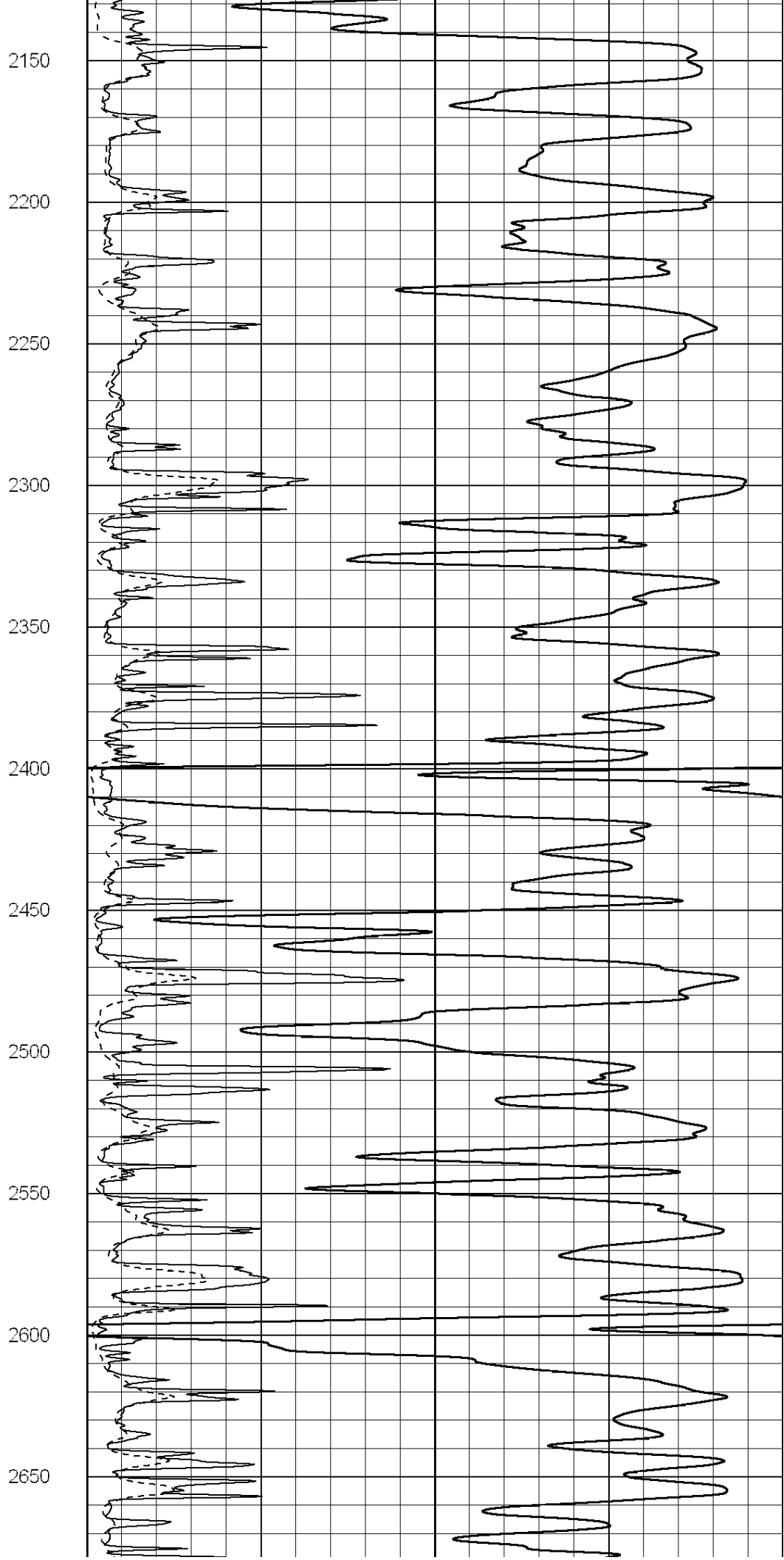
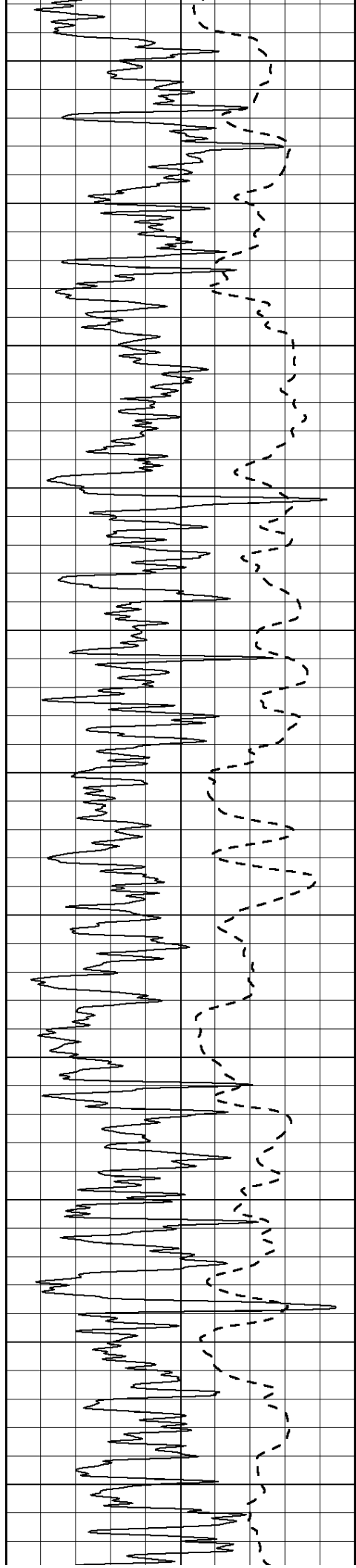
1450

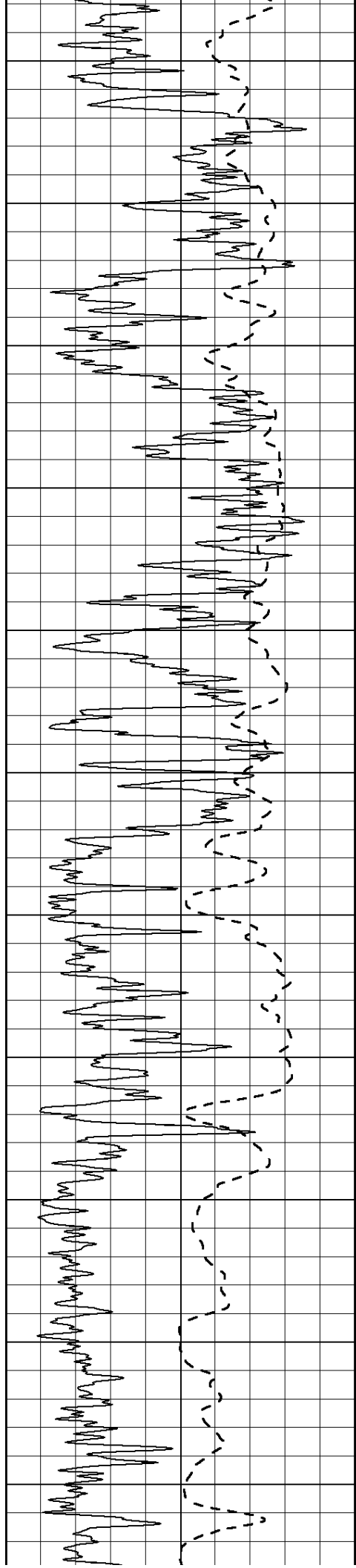
1500

1550









2700

2750

2800

2850

2900

2950

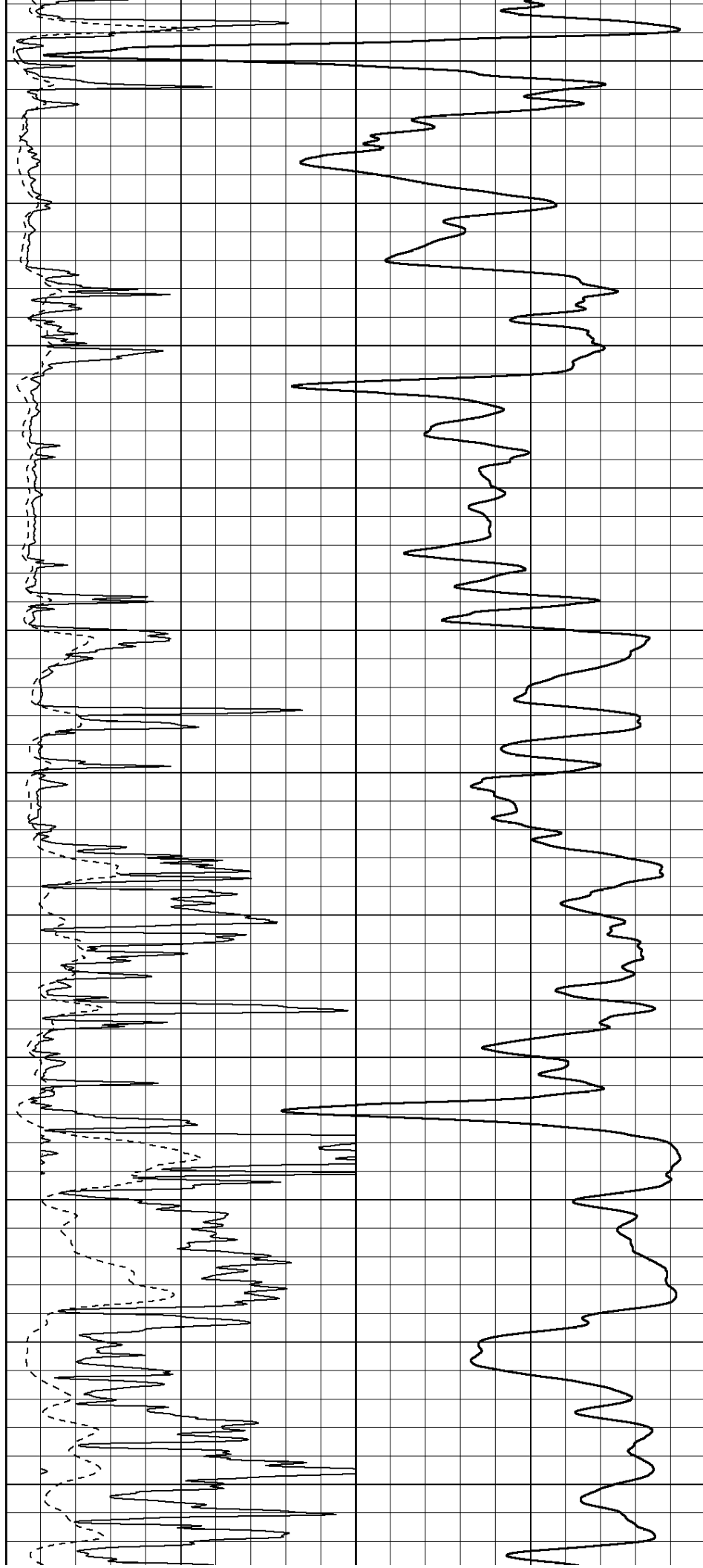
3000

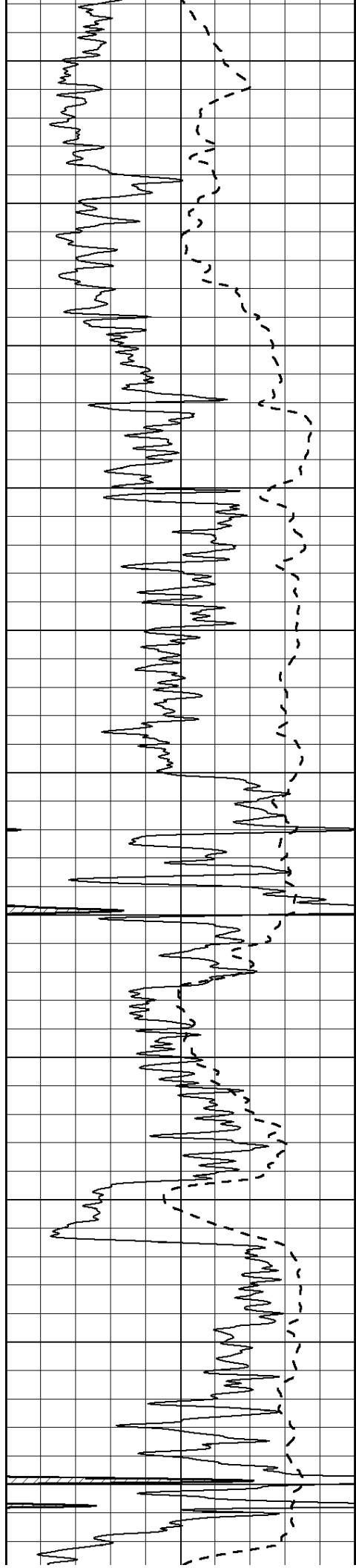
3050

3100

3150

3200





3250

3300

3350

3400

3450

3500

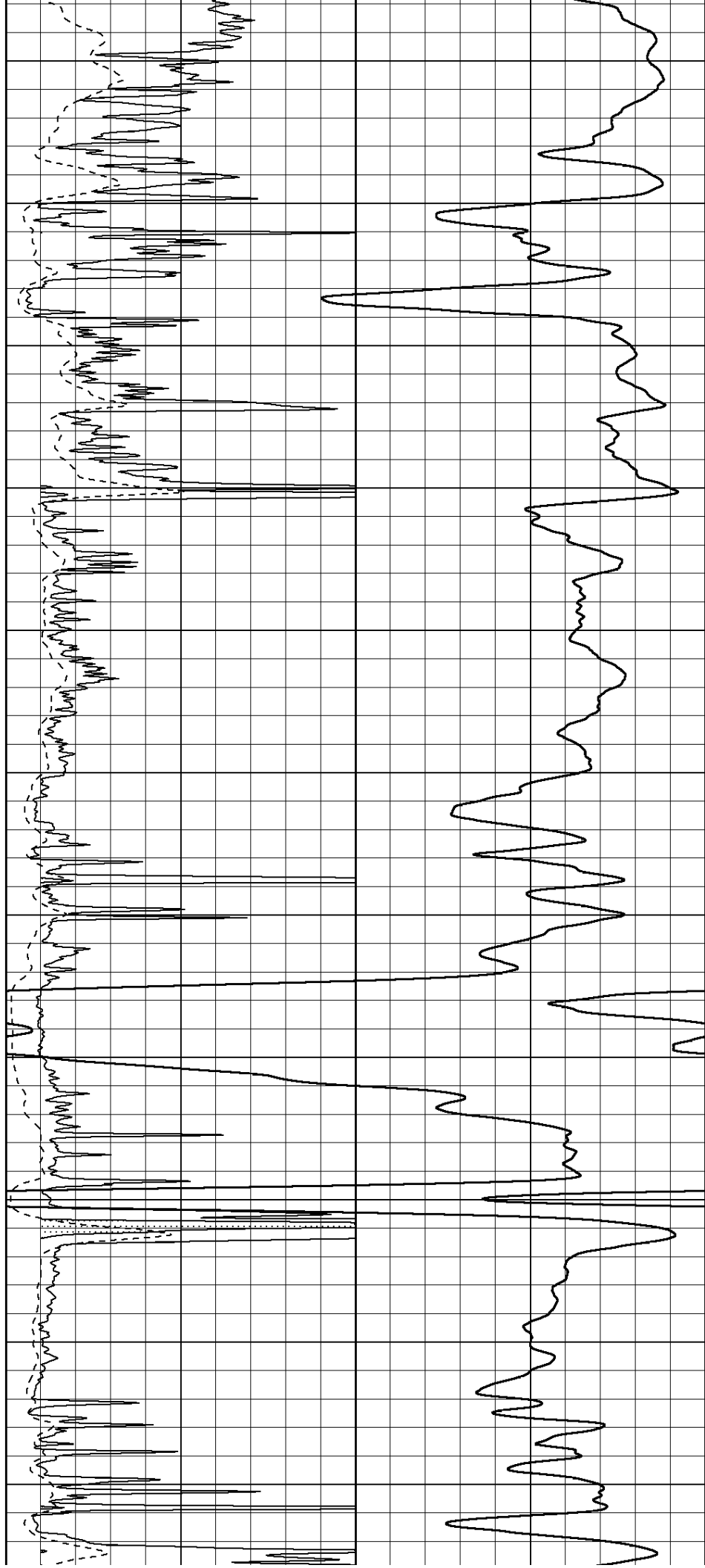
3550

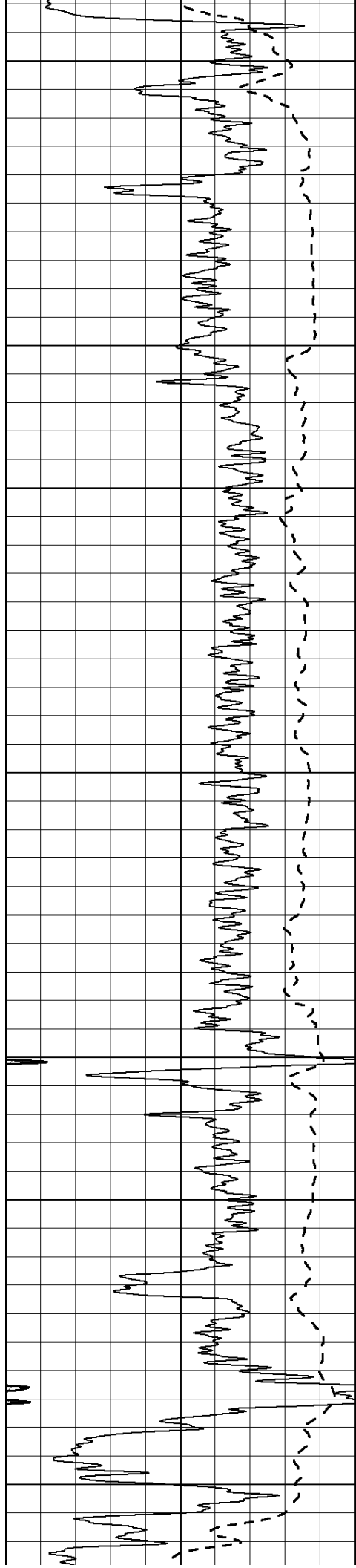
3600

3650

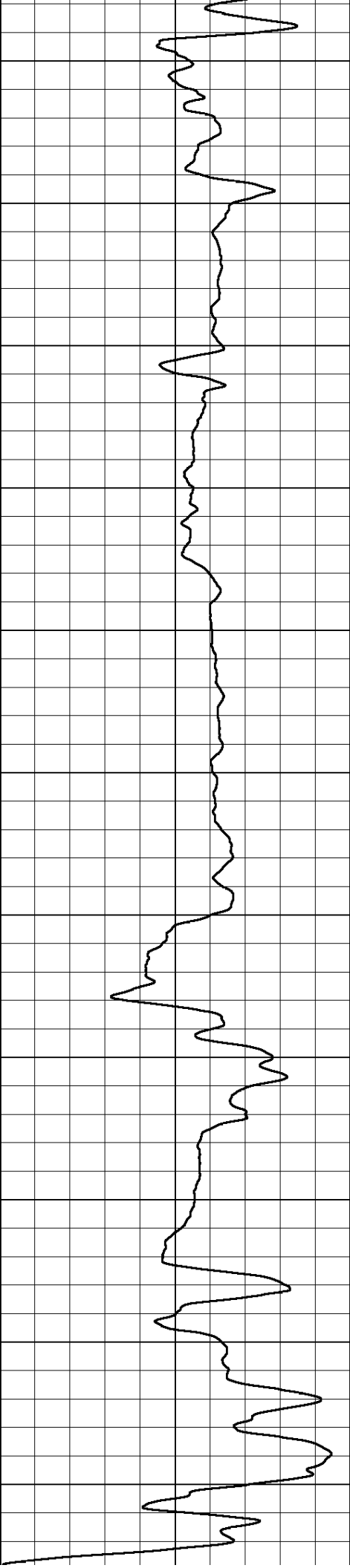
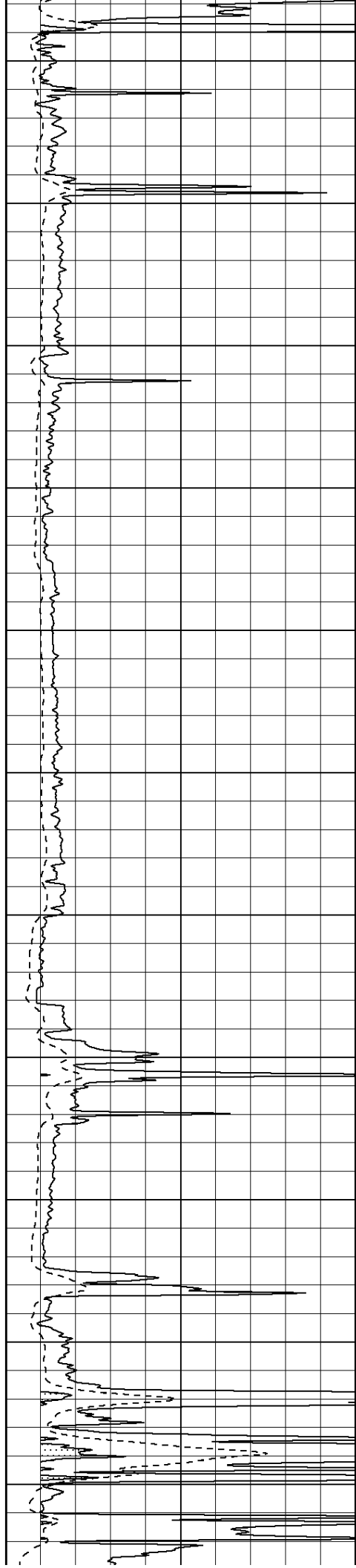
3700

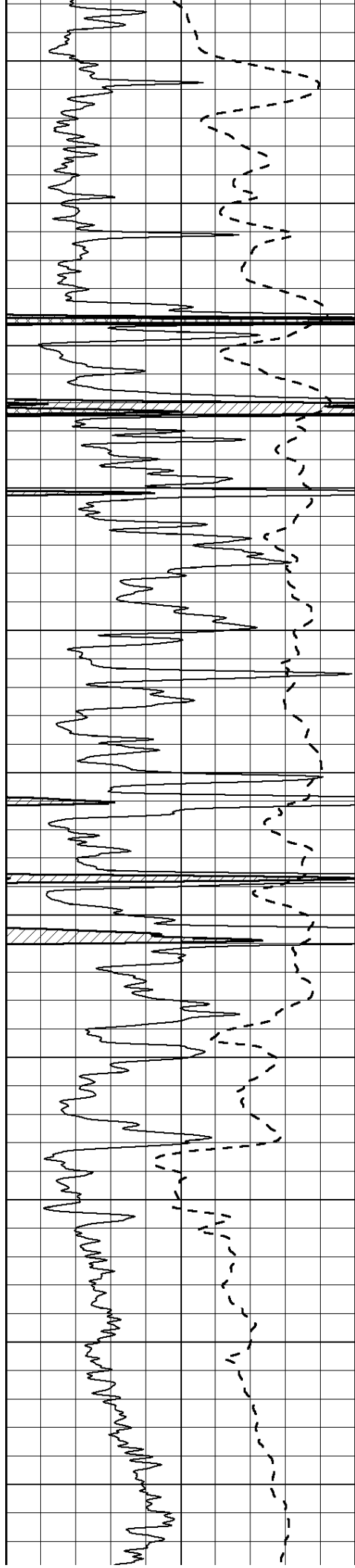
3750



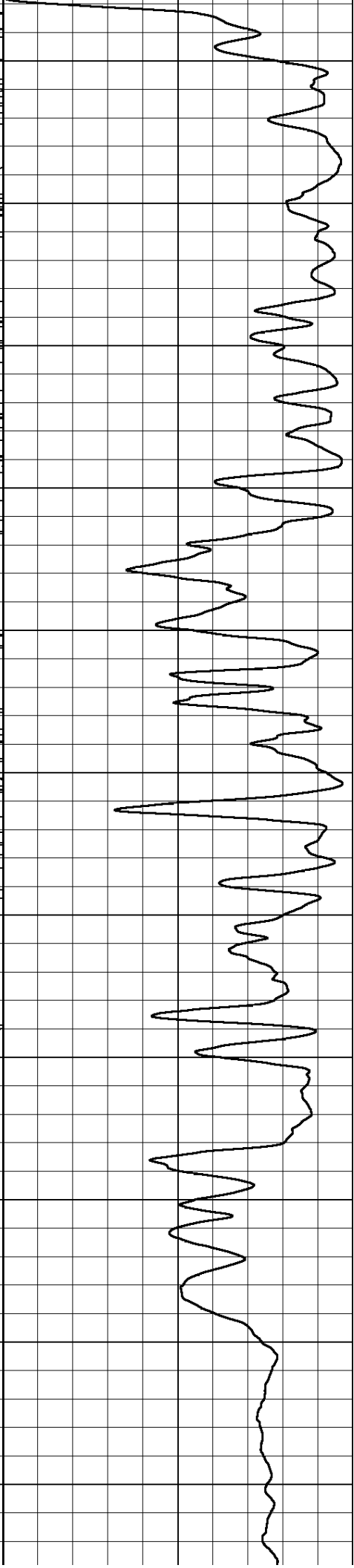
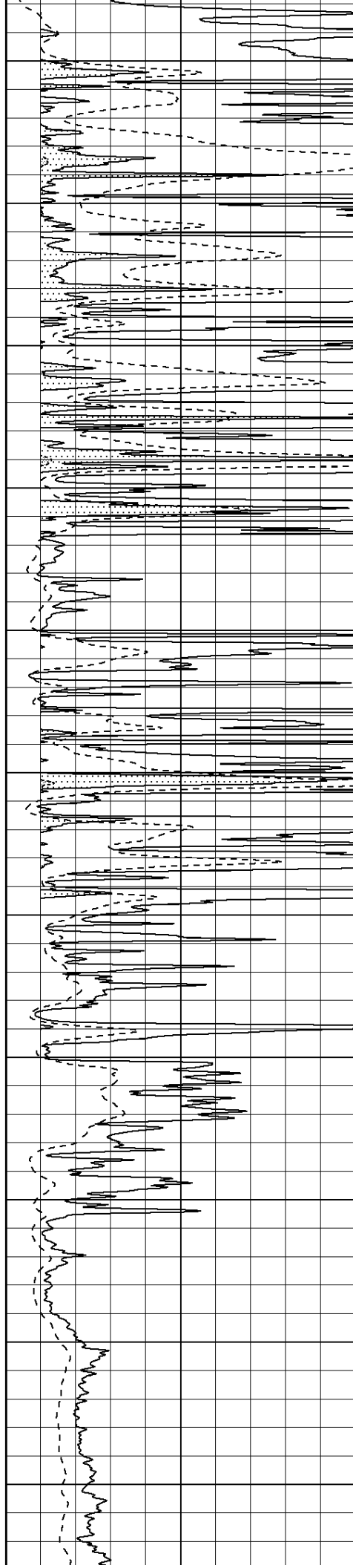


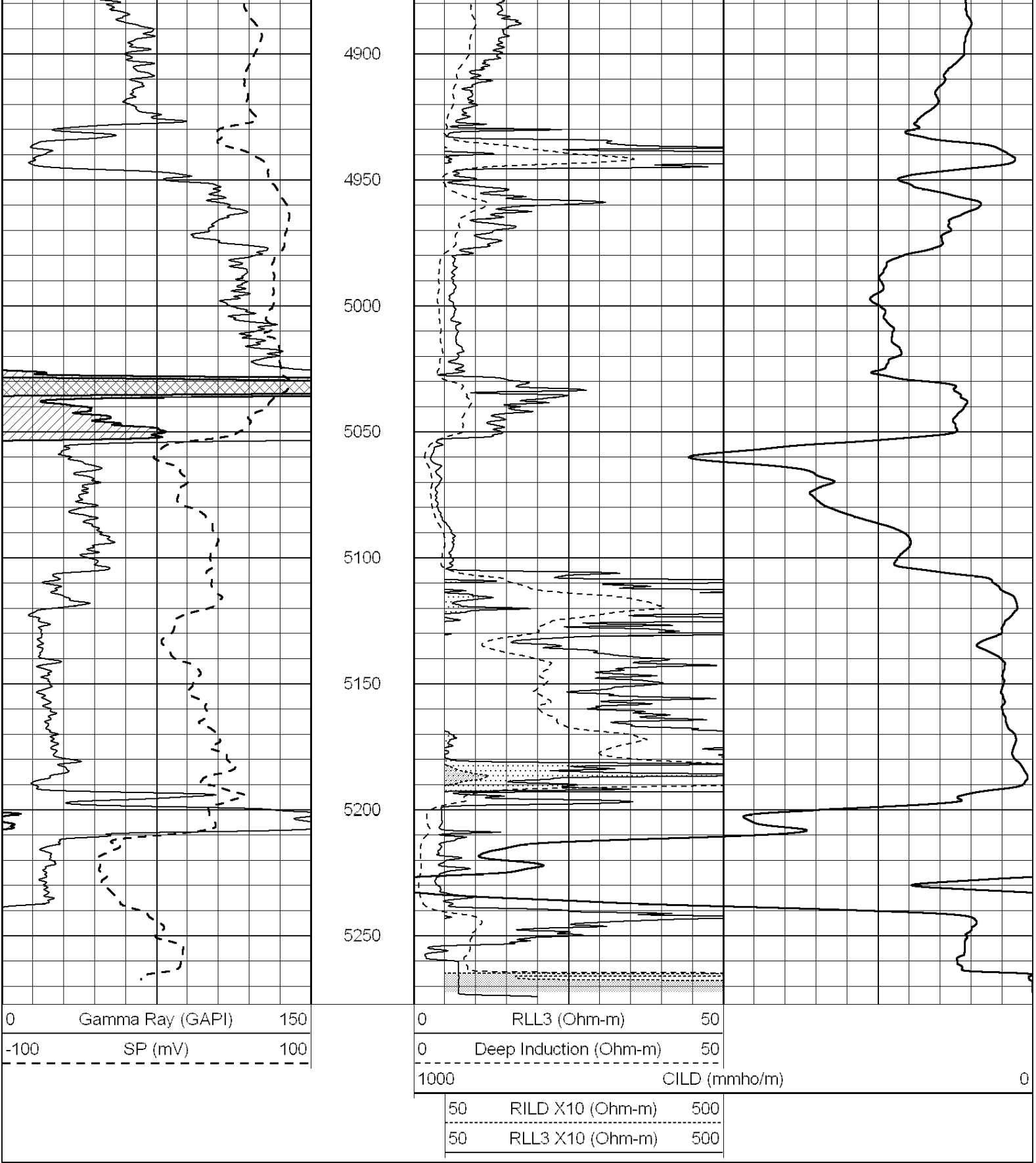
3800
3850
3900
3950
4000
4050
4100
4150
4200
4250
4300



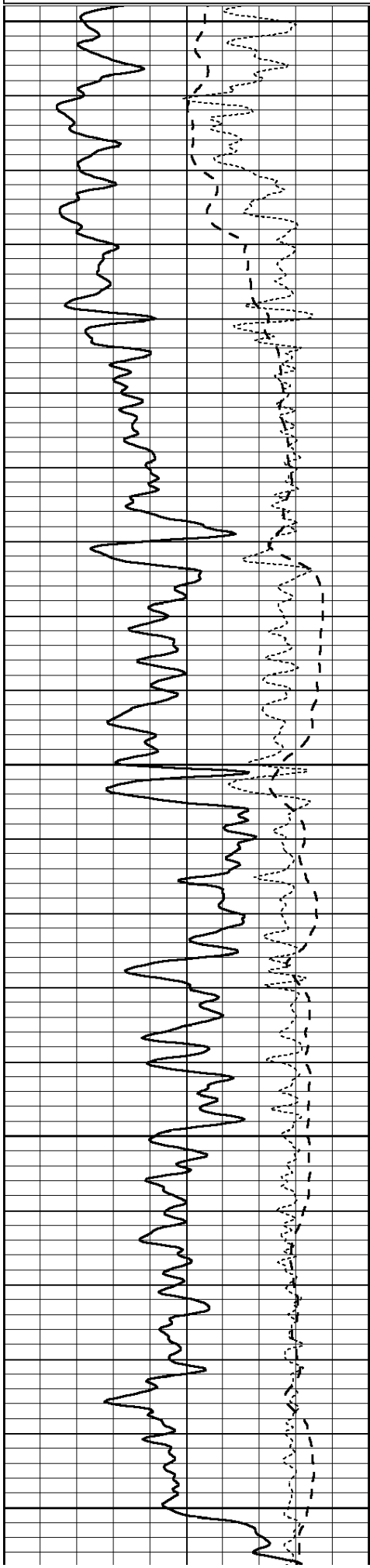


4350
4400
4450
4500
4550
4600
4650
4700
4750
4800
4850





Database File: 005865pe.db					
Dataset Pathname: pass3.4					
Presentation Format: _dil					
Dataset Creation: Mon Sep 20 00:28:01 2010 by Calc Open-Cased 090629					
Charted by: Depth in Feet scaled 1:240					
0	GAMMA RAY (GAPI)		150	0.2	SHALLOW GUARD (Ohm-m) 2000
-100	SP (mV)		100	0.2	MEDIUM INDUCTION (Ohm-m) 2000



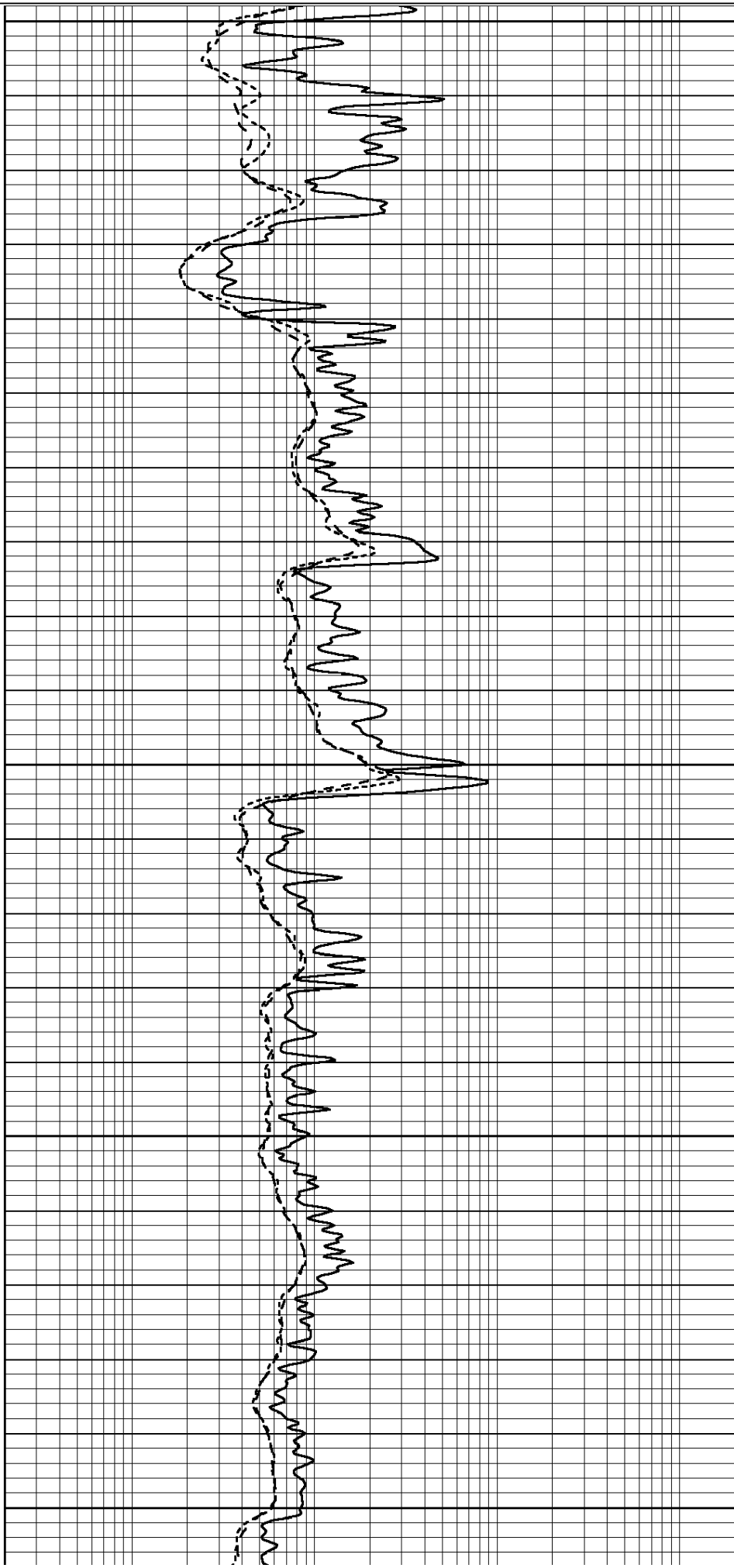
3300

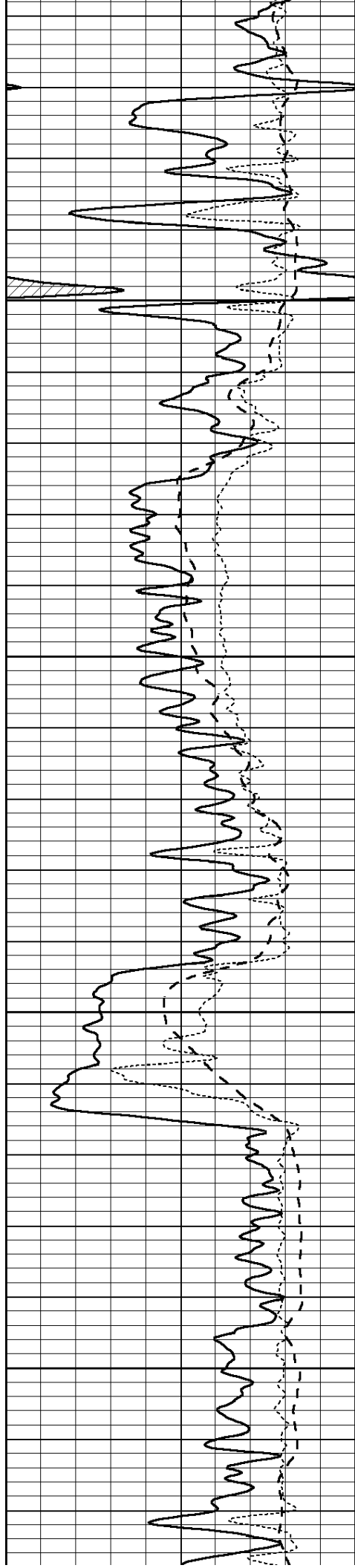
3350

3400

3450

3500



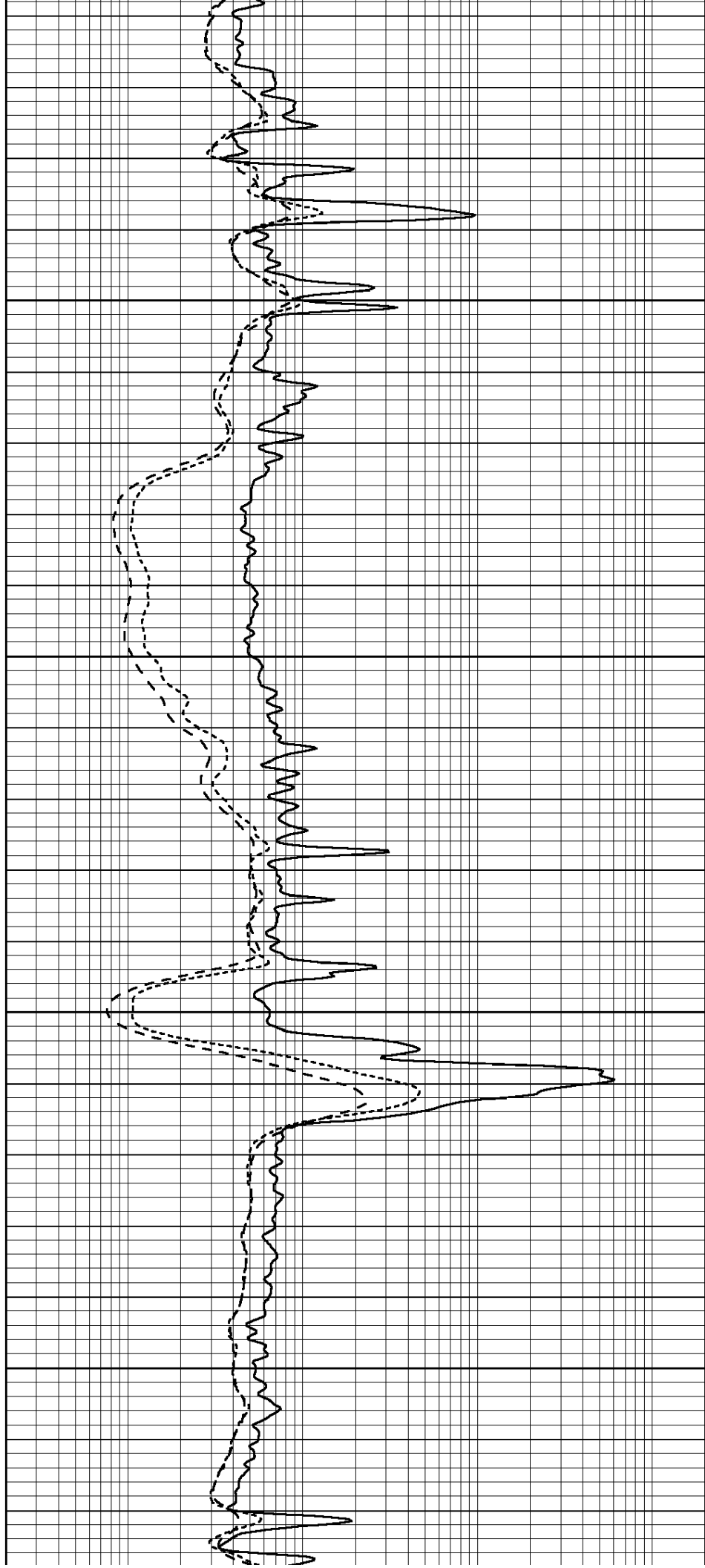


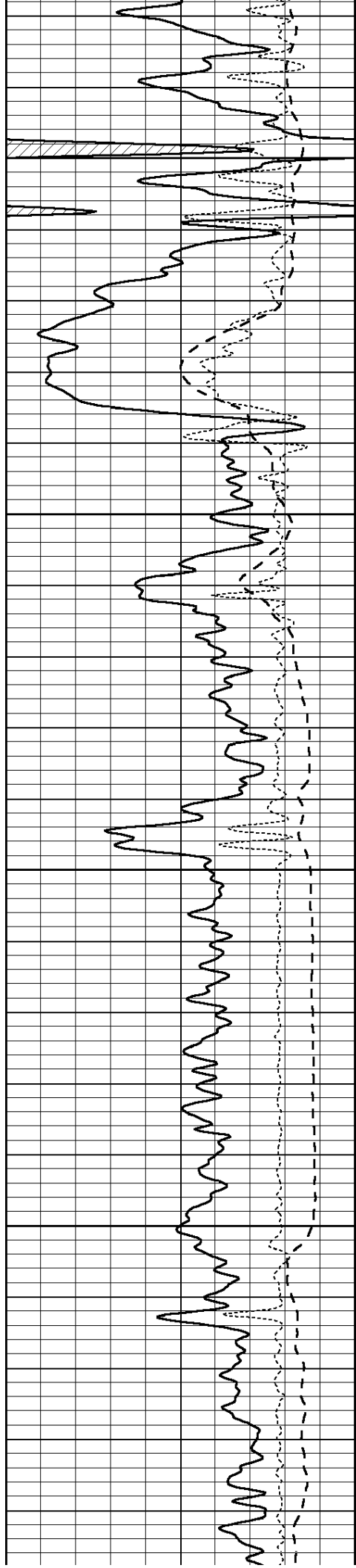
3550

3600

3650

3700



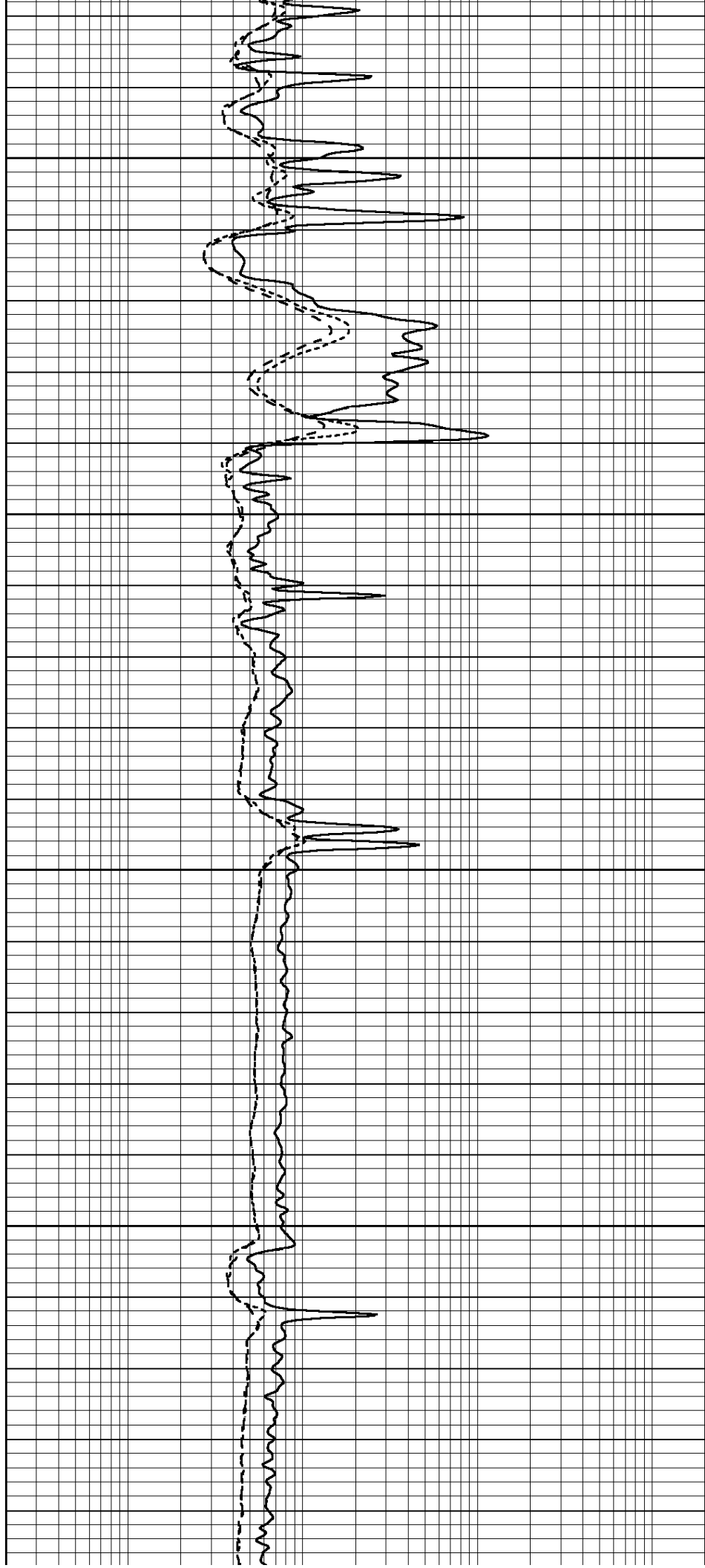


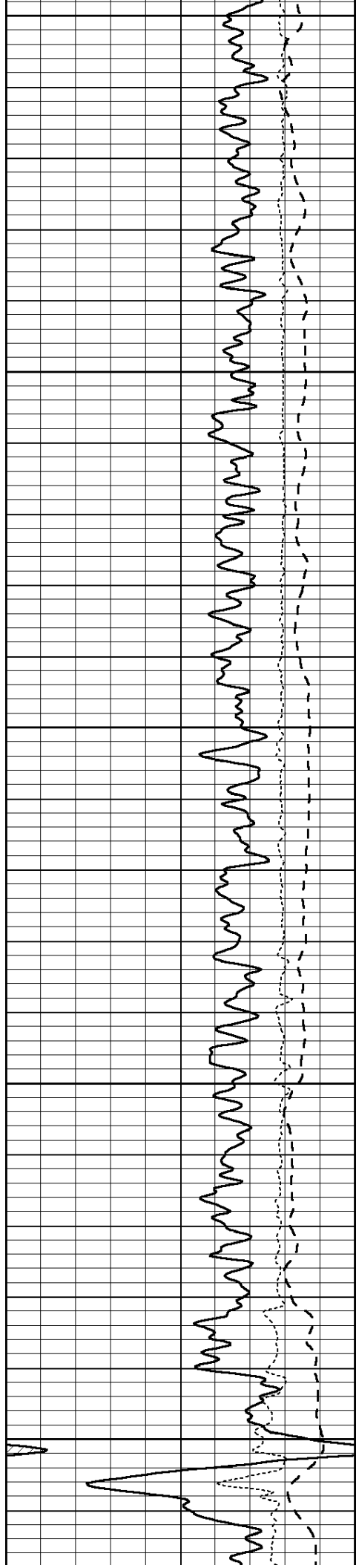
3750

3800

3850

3900





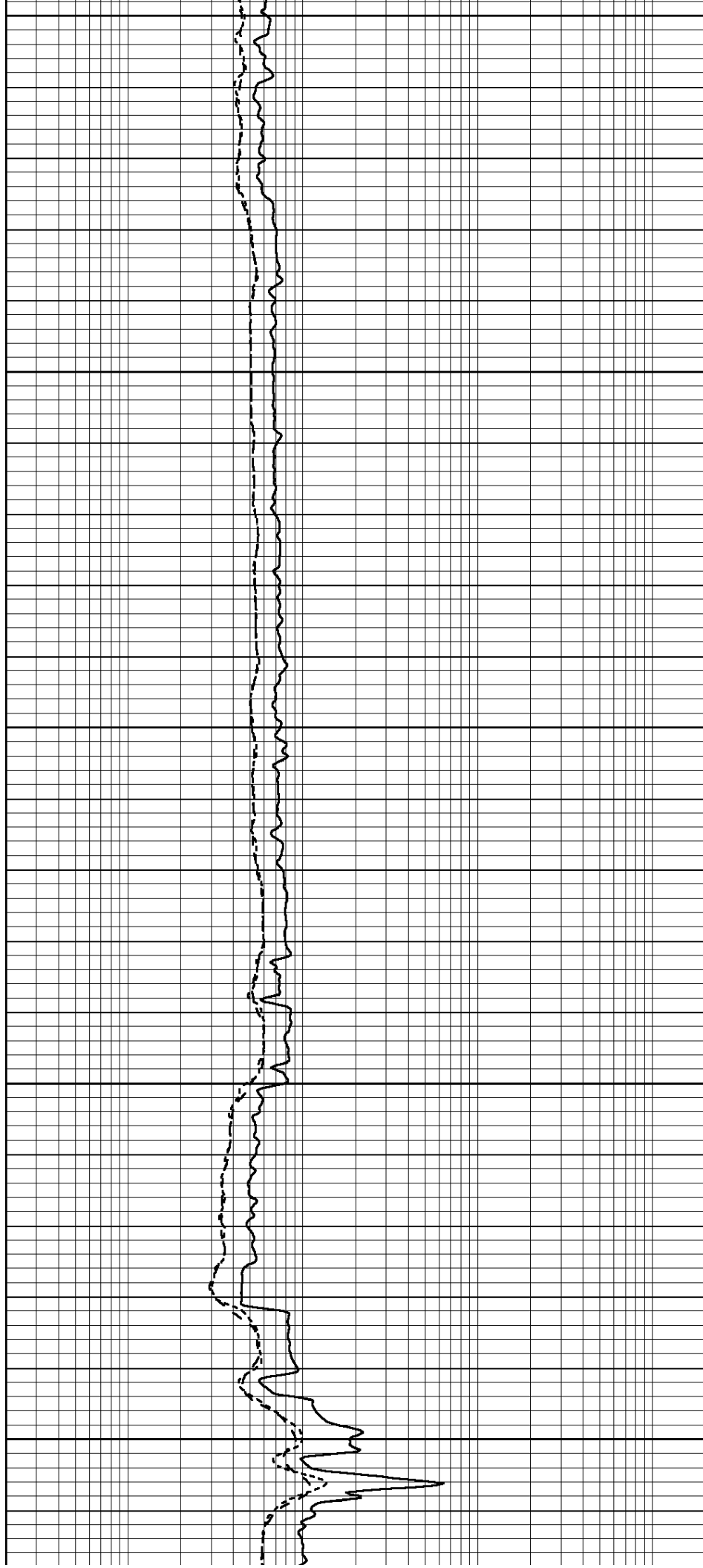
3950

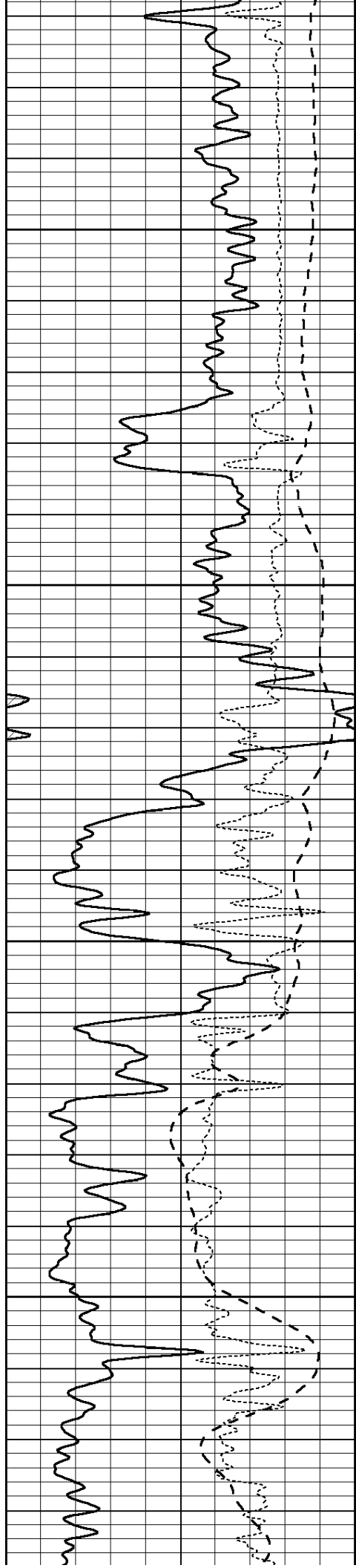
4000

4050

4100

4150



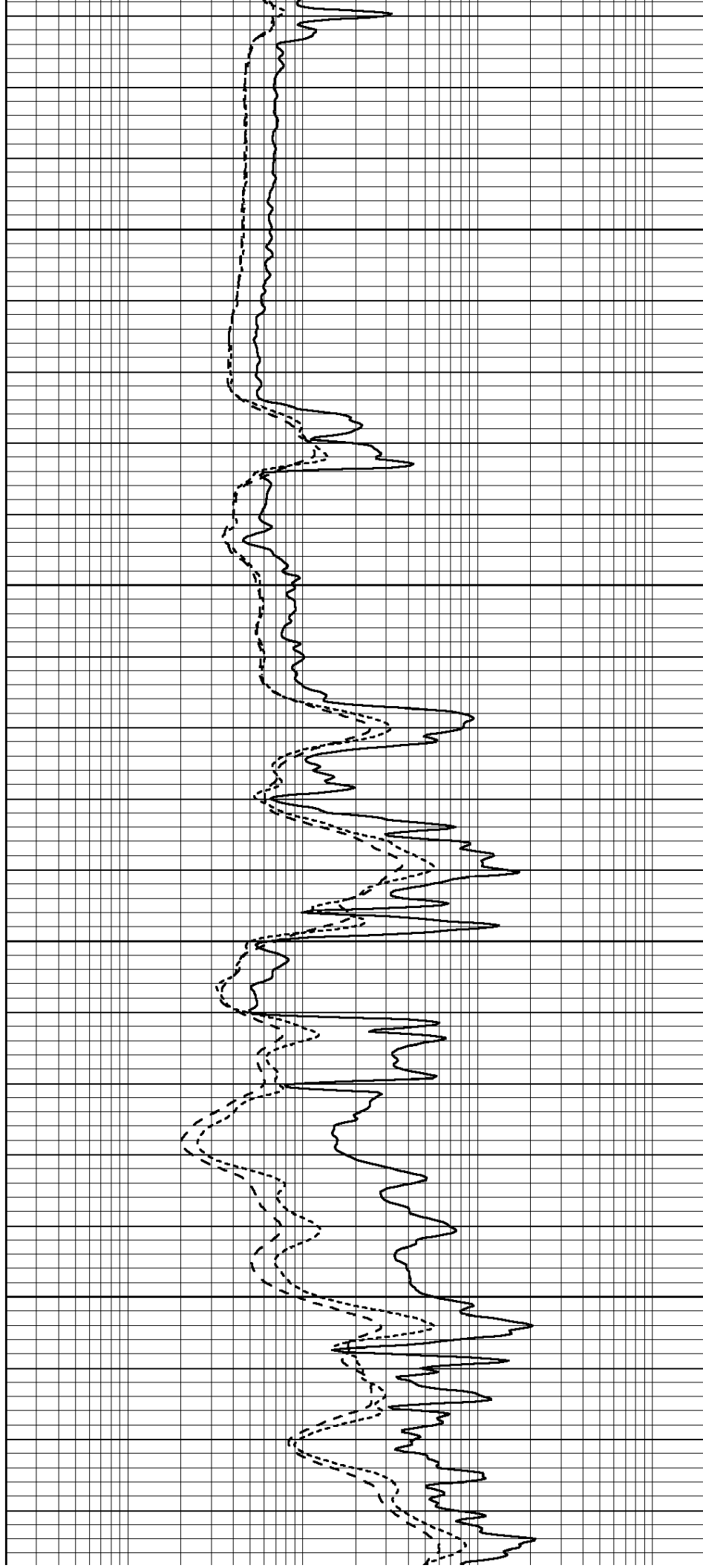


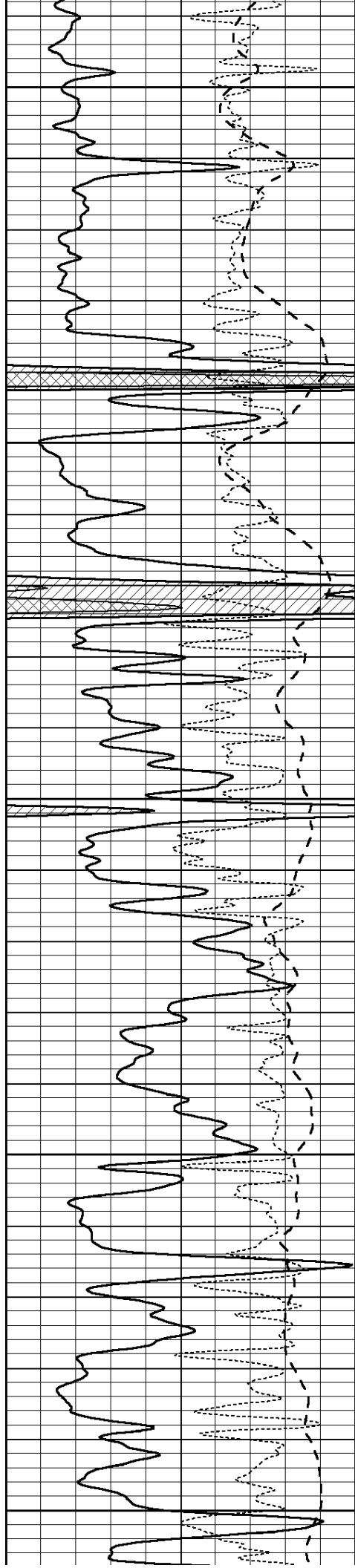
4200

4250

4300

4350





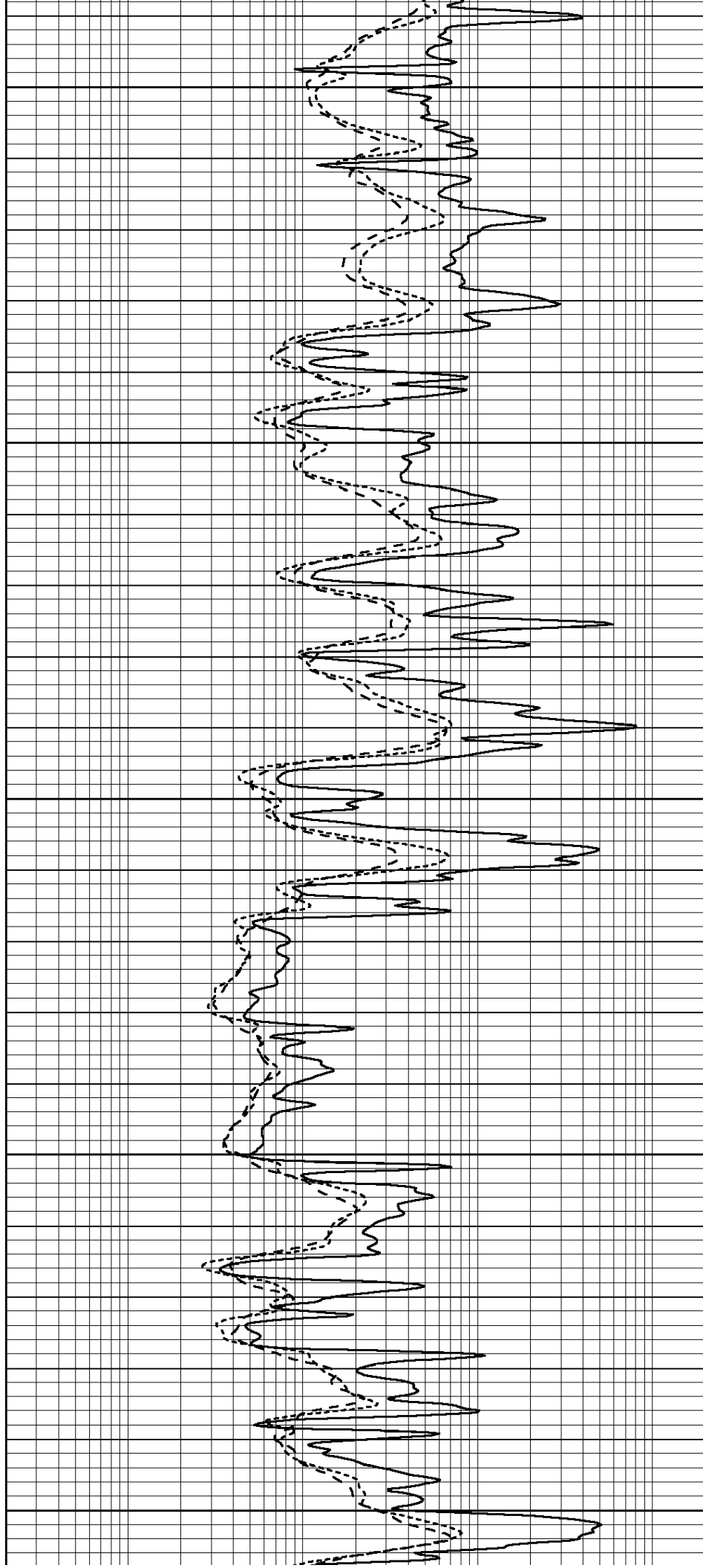
4400

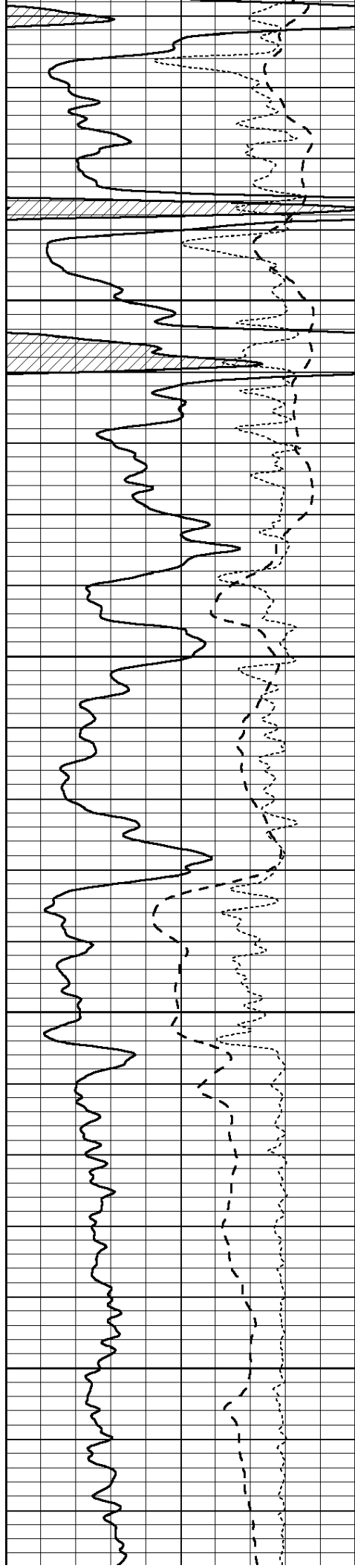
4450

4500

4550

4600



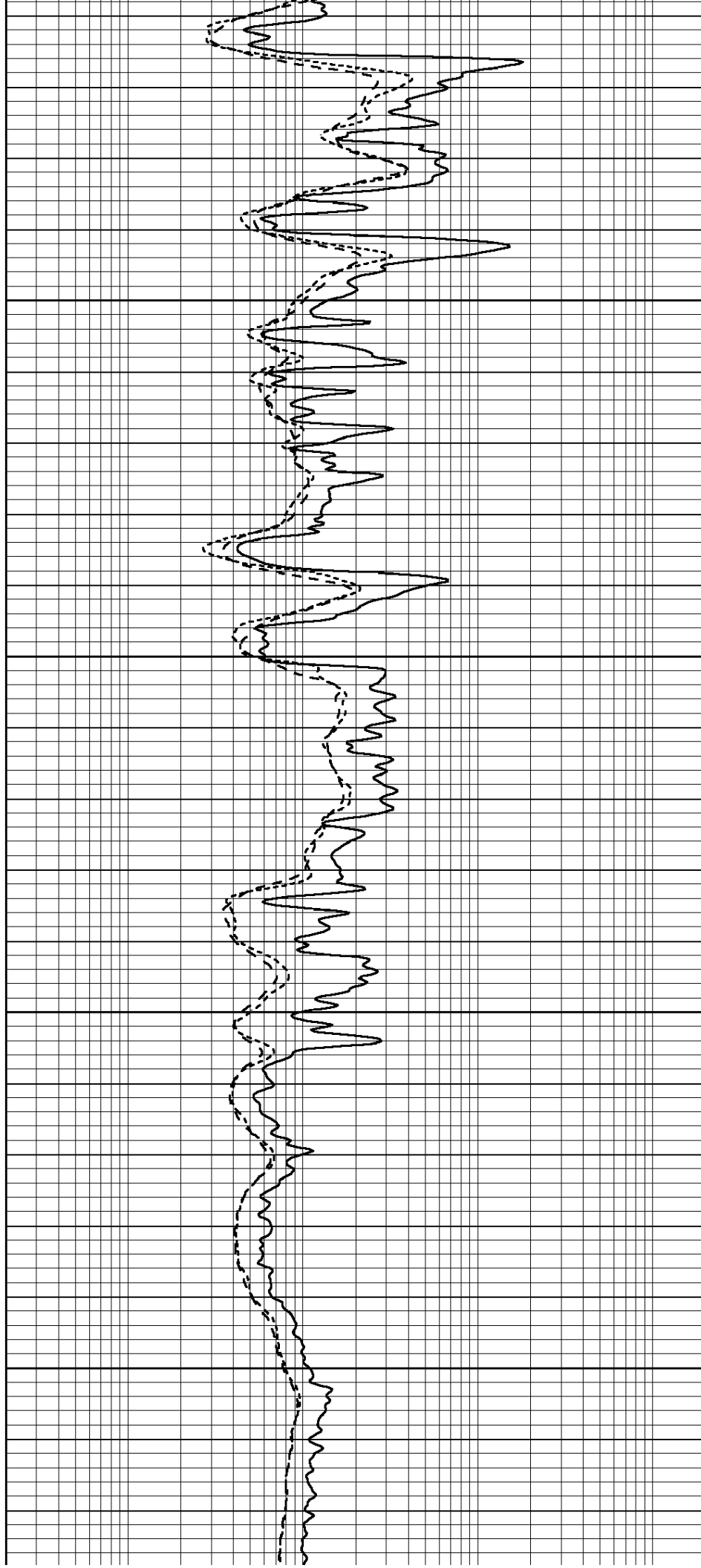


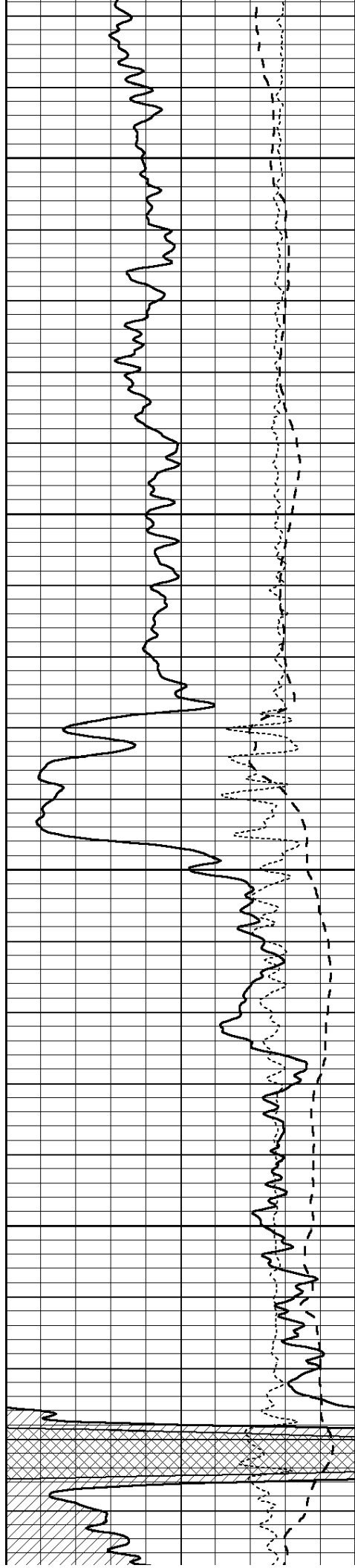
4650

4700

4750

4800



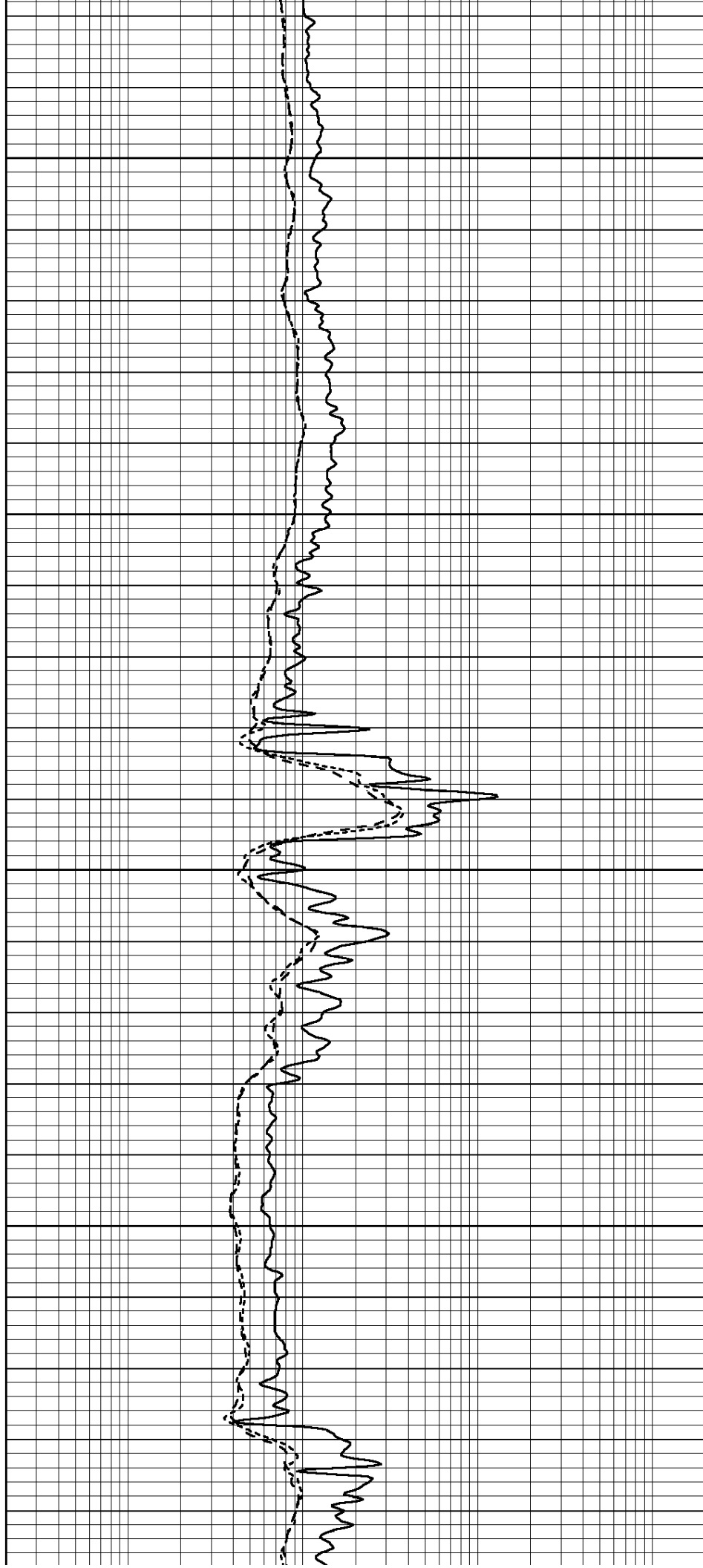


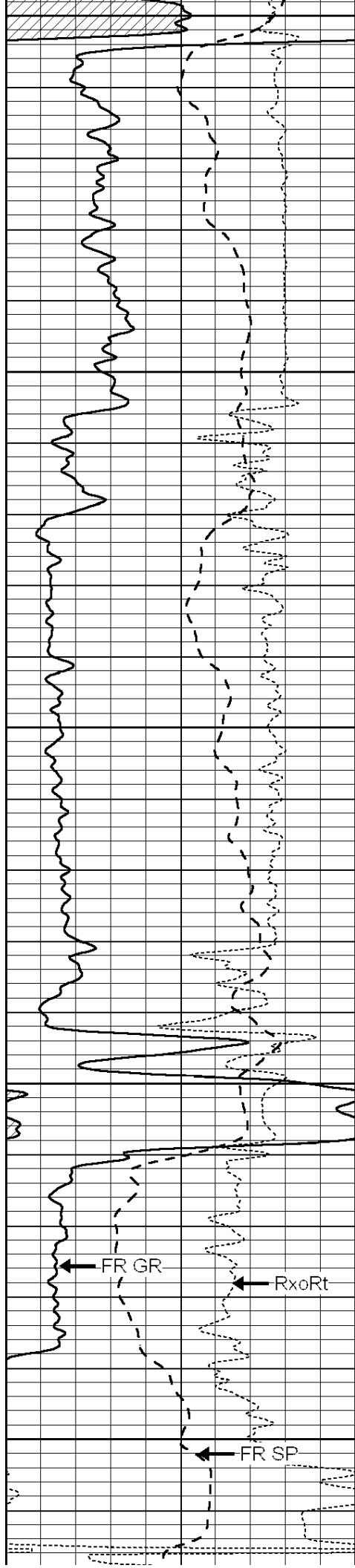
4850

4900

4950

5000





5050

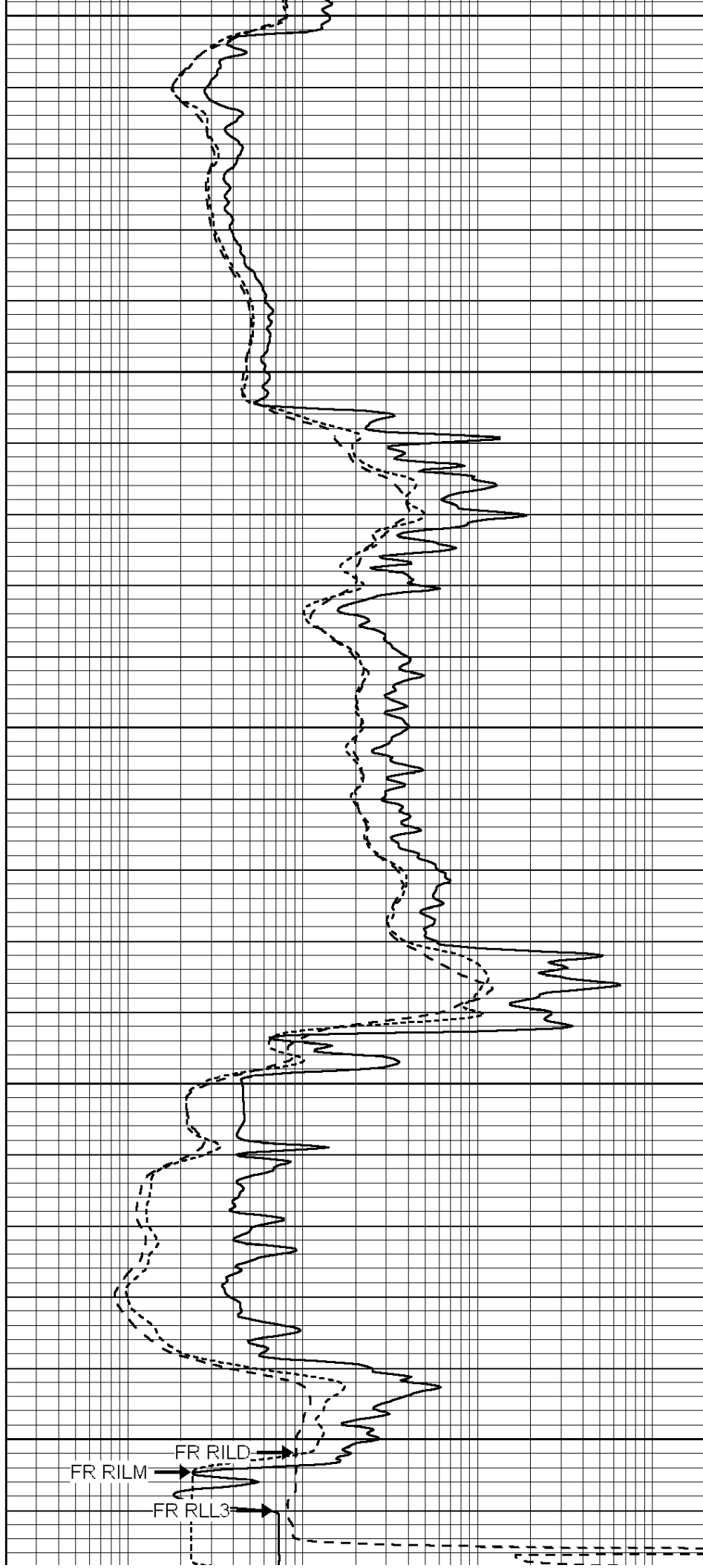
5100

5150

5200

5250

LTD 5262



0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50

0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000



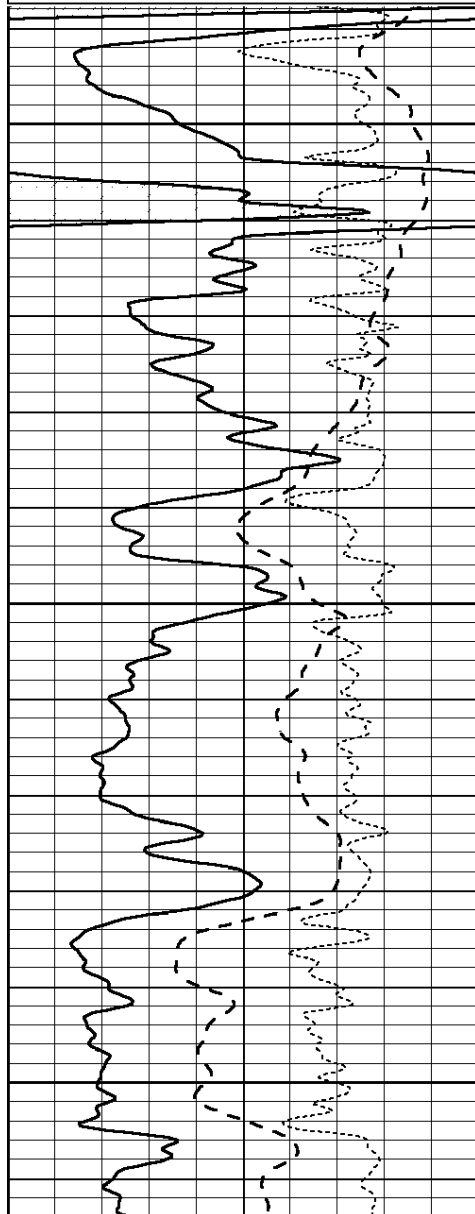
SUPERIOR
Hays,
Kansas

REPEAT SECTION

Database File: 005865pe.db
Dataset Pathname: pass2.3
Presentation Format: _dil
Dataset Creation: Mon Sep 20 00:38:44 2010 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50

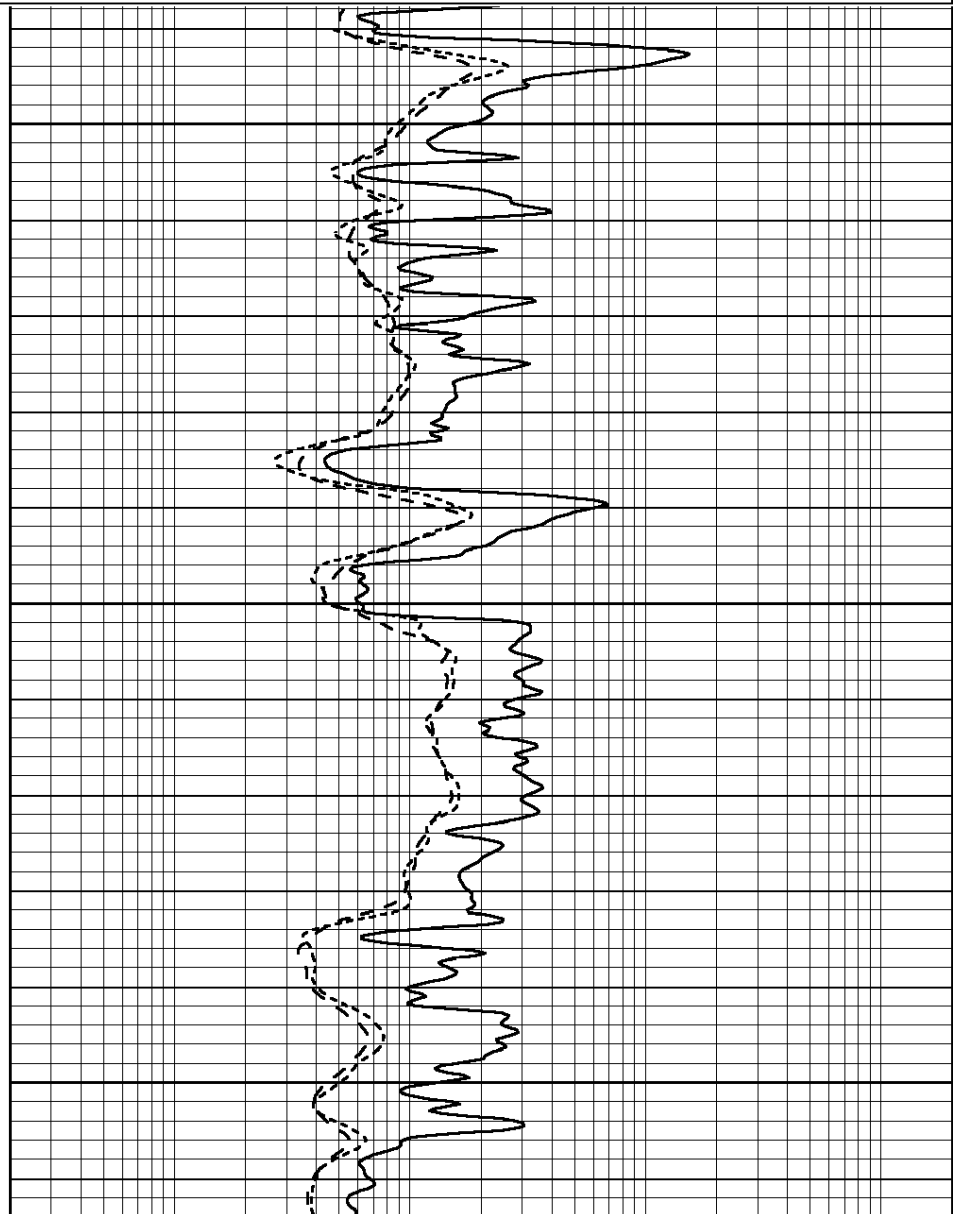
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000

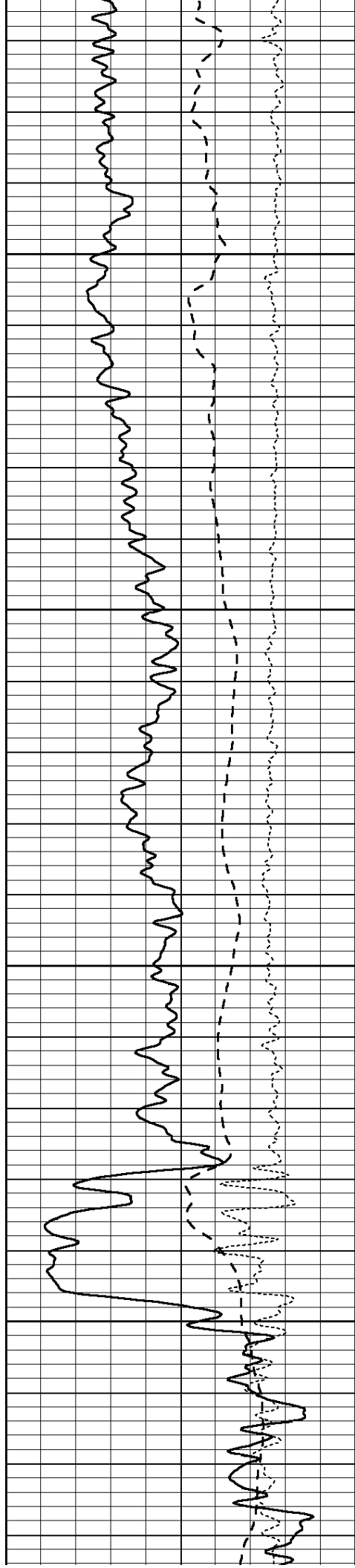


4650

4700

4750



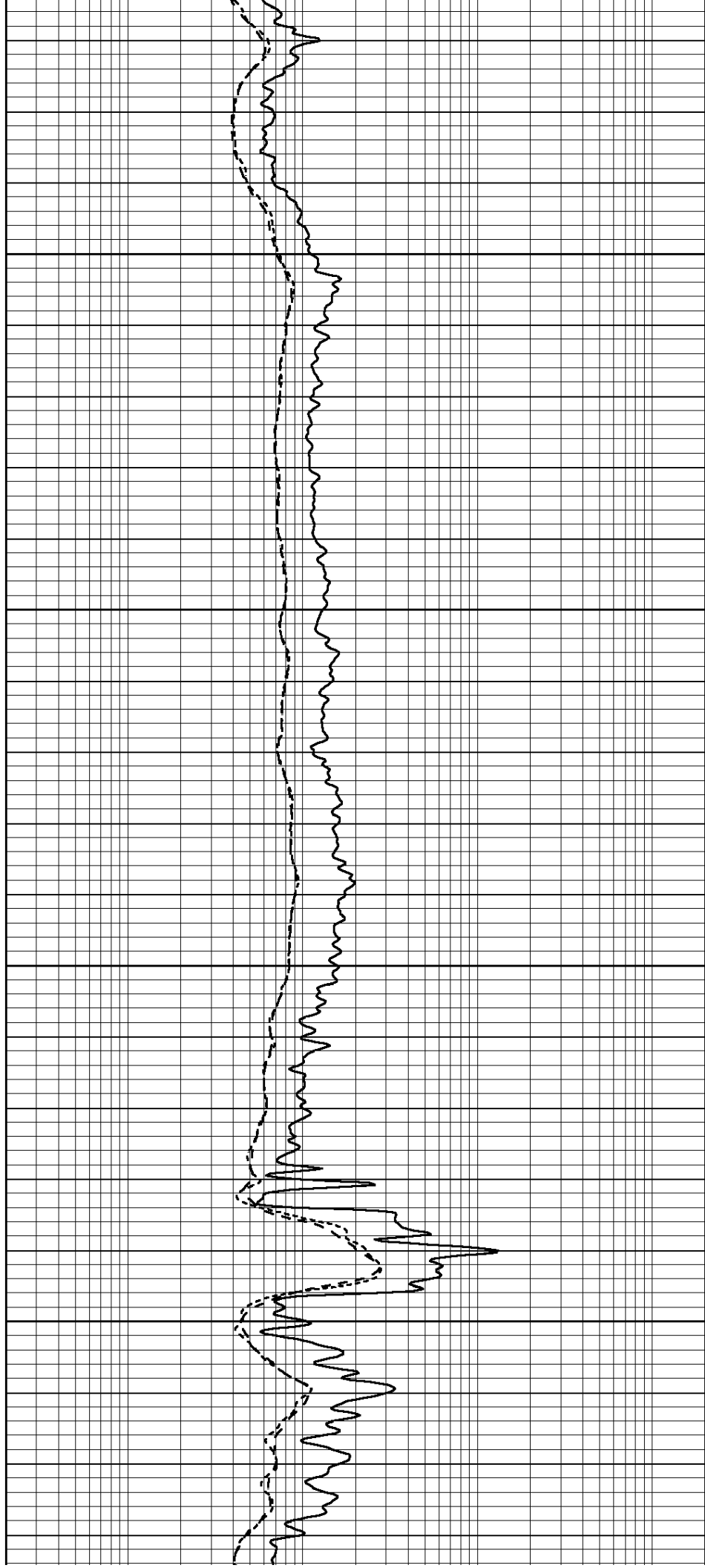


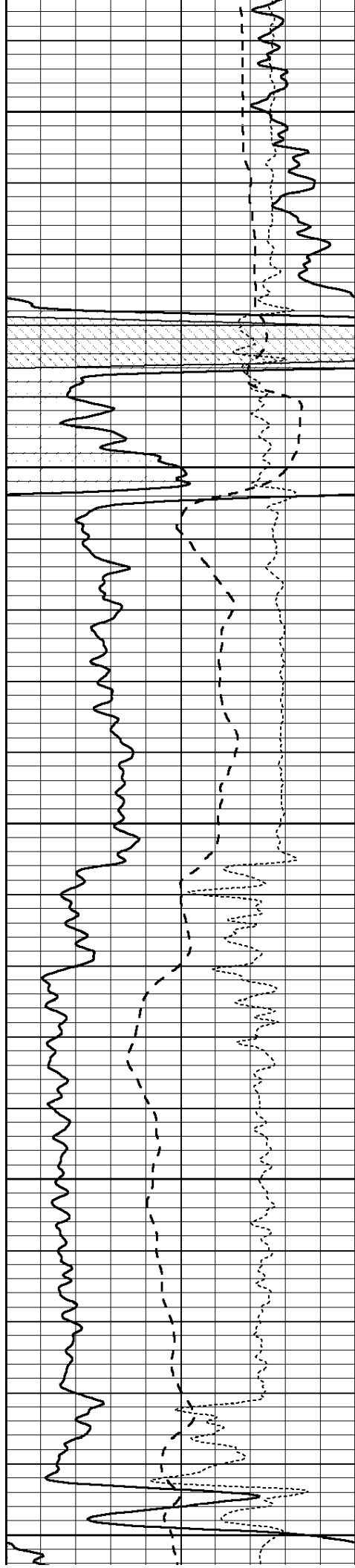
4800

4850

4900

4950





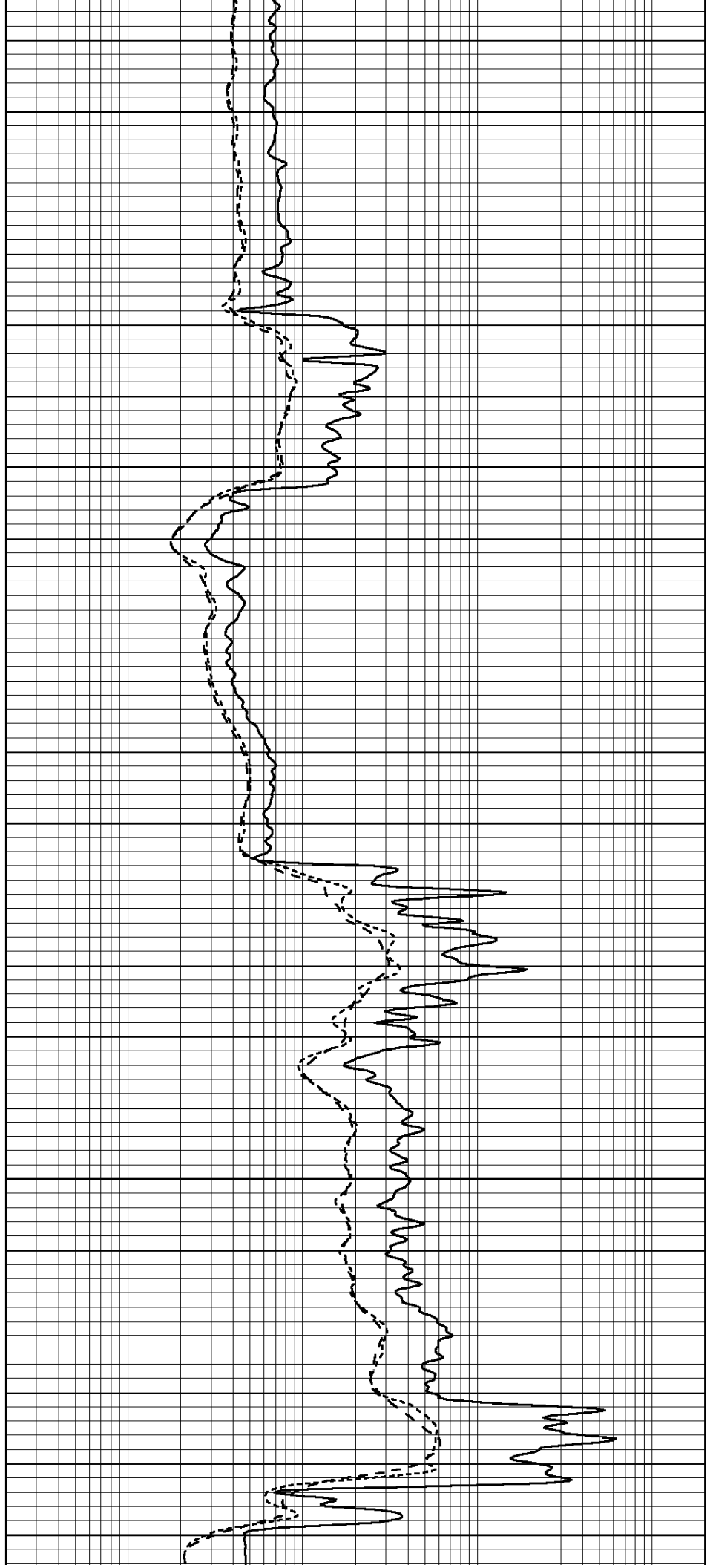
5000

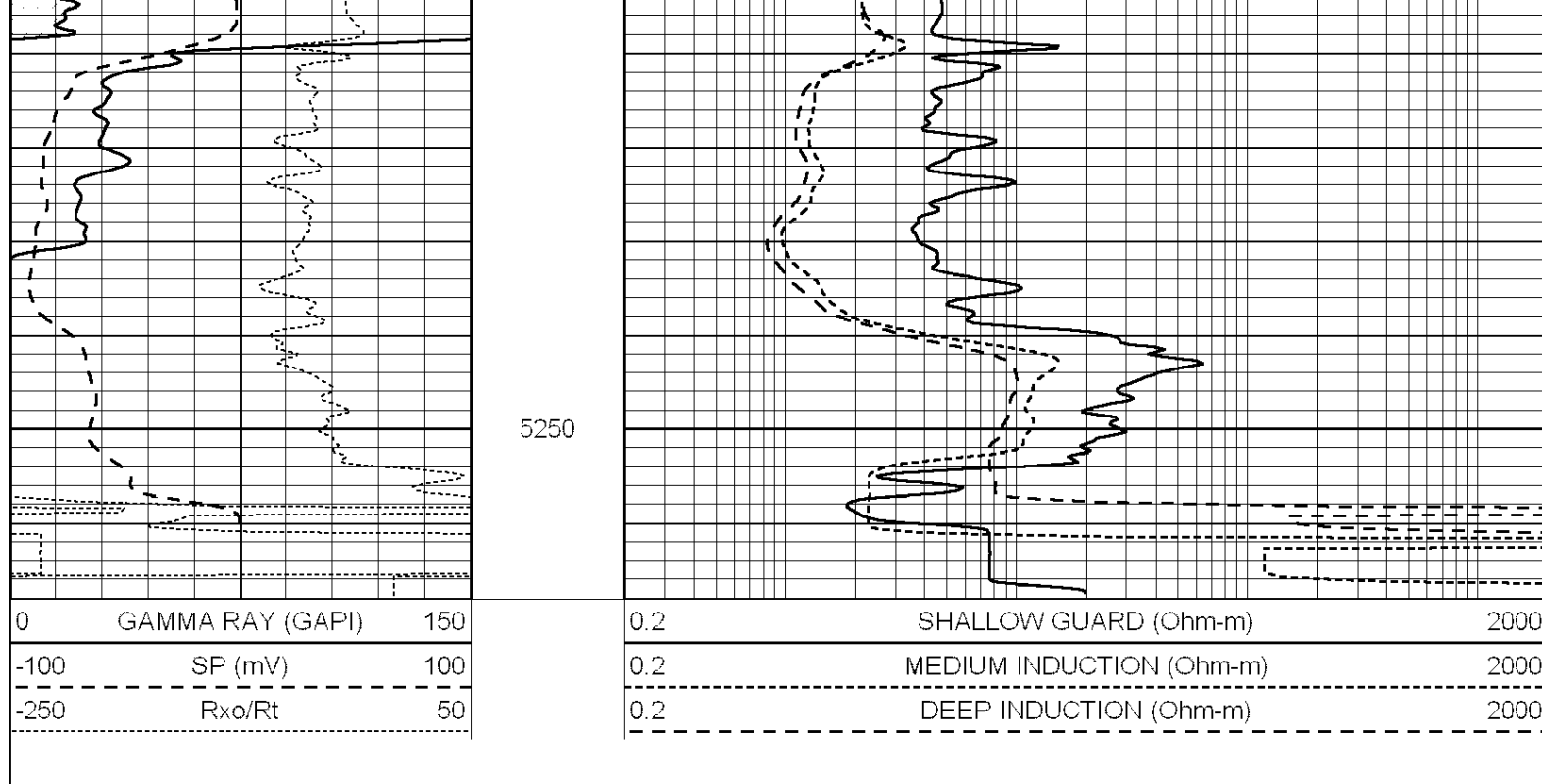
5050

5100

5150

5200





Calibration Report

Database File: 005865pe.db
Dataset Pathname: pass3.6
Dataset Creation: Mon Sep 20 01:26:18 2010

Dual Induction Calibration Report

Serial-Model: PROBE7-DILG
Surface Cal Performed: Wed Jul 30 06:14:24 2008
Downhole Cal Performed: Mon Jul 28 12:02:56 2008
After Survey Verification Performed: Mon Jul 28 12:02:56 2008

Surface Calibration

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	-0.014	0.629	V	0.000	400.000	mmho/m	621.923	8.759
Medium	0.039	0.728	V	0.000	464.000	mmho/m	673.322	-26.058
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.011	0.610	V	0.000	400.000	mmho/m	667.135	-7.256
Medium	0.005	0.712	V	0.000	464.000	mmho/m	655.677	-3.102

Downhole Calibration

Readings				References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	14.508	388.384	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	166.367	504.400	mmho/m	1.000	0.000
LL3		7.500	V		1400.000	Ohm-m		
		0.000	V		20.000	Ohm-m		
		-7.200	V		4000.000	mmho-m		

After Survey Verification

Readings				Targets		Results	
	Zero	Cal		Zero	Cal	m'	b'

Deep	0.000	0.000	mmho/m	0.000	0.000	mmho/m	0.000	0.000
Medium	0.000	0.000	mmho/m	0.000	0.000	mmho/m	0.000	0.000
LL3		1.000	Ohm-m		1.000	Ohm-m		
		0.000	Ohm-m		0.000	Ohm-m		
		1.000	mmho-m		1.000	mmho-m		
Litho Density Calibration Report Serial: 002 Model: PRB Performed Mon Oct 29 15:40:49 2007								
Litho Density Calibration								
	Background	Magnesium		Aluminum		Sandstone		
Window 1	1056.3	9118.0		2809.7		10378.4		
Window 2	969.9	7671.9		2431.6		8565.8		
Window 3	683.8	2939.8		1161.0		3161.8		
Window 4	231.4	231.6		226.7		230.8		
Long Space	0.0	6702.0		1461.7		7595.9		
Short Space	1.2	1433.6		959.4		1568.6		
Rho		1.7100		2.5900		1.3800		
Pe				2.5700		1.5500		
Rib Angle	: 45.2	Rib Slope	: 1.008	Density/Spine Ratio		: 0.559		
Spine Angle	: 75.2	Spine Slope	: 3.791	Spine Intercept		: -18.7		
Caliper								
Low Ref	2.3	Reference		8.0				
High Ref	4.3	14.0						
	Gain: 2.1	Offset: 1.9						
Compensated Neutron Calibration Report								
Serial Number:				5I				
Tool Model:				G				
CALIBRATION								
	Detector	Readings		Target		Normalization		
	Short Space	1.00	cps	1.00	cps	1.0000		
	Long Space	1.00	cps	1.00	cps	1.0000		
Gamma Ray Calibration Report								
Serial Number:			GR5					
Tool Model:			OPEN					
Performed:			Tue May 23 06:48:05 2006					
Calibrator Value:			1.0	GAPI				
Background Reading:			0.0	cps				
Calibrator Reading:			1.0	cps				
Sensitivity:			0.5300	GAPI/cps				