



**COMPLETION  
& PRODUCTION  
SERVICES CO.**

**DUAL  
INDUCTION  
LOG**

Company TRANS PACIFIC OIL CORP.  
Well HANKS "C" #1-10  
Field WILDCAT  
County LANE  
State KANSAS

Company TRANS PACIFIC OIL CORP.  
Well HANKS "C" #1-10  
Field WILDCAT  
County LANE State KANSAS

Location: 1320' FSL & 330' FEL  
E2 - E2 - SE  
API # : 15-101-22443-00-00  
SEC 10 TWP 17S RGE 27W  
Permanent Datum GROUND LEVEL Elevation 2581  
Log Measured From KELLY BUSHING 9' A.G.L.  
Drilling Measured From KELLY BUSHING  
Other Services CNL/CDL  
Elevation  
K.B. 2590  
D.F. 2588  
G.L. 2581

Date	6/14/13
Run Number	ONE
Depth Driller	4546
Depth Logger	4548
Bottom Logged Interval	4546
Top Log Interval	3600
Casing Driller	8 5/8" @ 223
Casing Logger	219
Bit Size	7 7/8
Type Fluid in Hole	CHEMICAL MUD
Density / Viscosity	9.3/60
pH / Fluid Loss	10/10.4
Source of Sample	FLOWLINE
Rim @ Meas. Temp	.60 @ 94F
Rmf @ Meas. Temp	.45 @ 94F
Rmc @ Meas. Temp	.72 @ 94F
Source of Rmf / Rmc	MEASURED
Rim @ BHT	.47 @ 121F
Time Circulation Stopped	2 HOURS
Time Logger on Bottom	
Maximum Recorded Temperature	121F
Equipment Number	680
Location	HAYS, KS.
Recorded By	IAN MABB
Witnessed By	MIKE KIDWELL

<<< 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 COMPLETION & PRODUCTION SVCS. (785) 628-6395

**DIRECTIONS:**

UTICA, KS. - WEST ON HWY 4 TO SCOUT RD. - SOUTH TO RD. 218 - EAST THROUGH THE GATE  
FOLLOW THE PATH

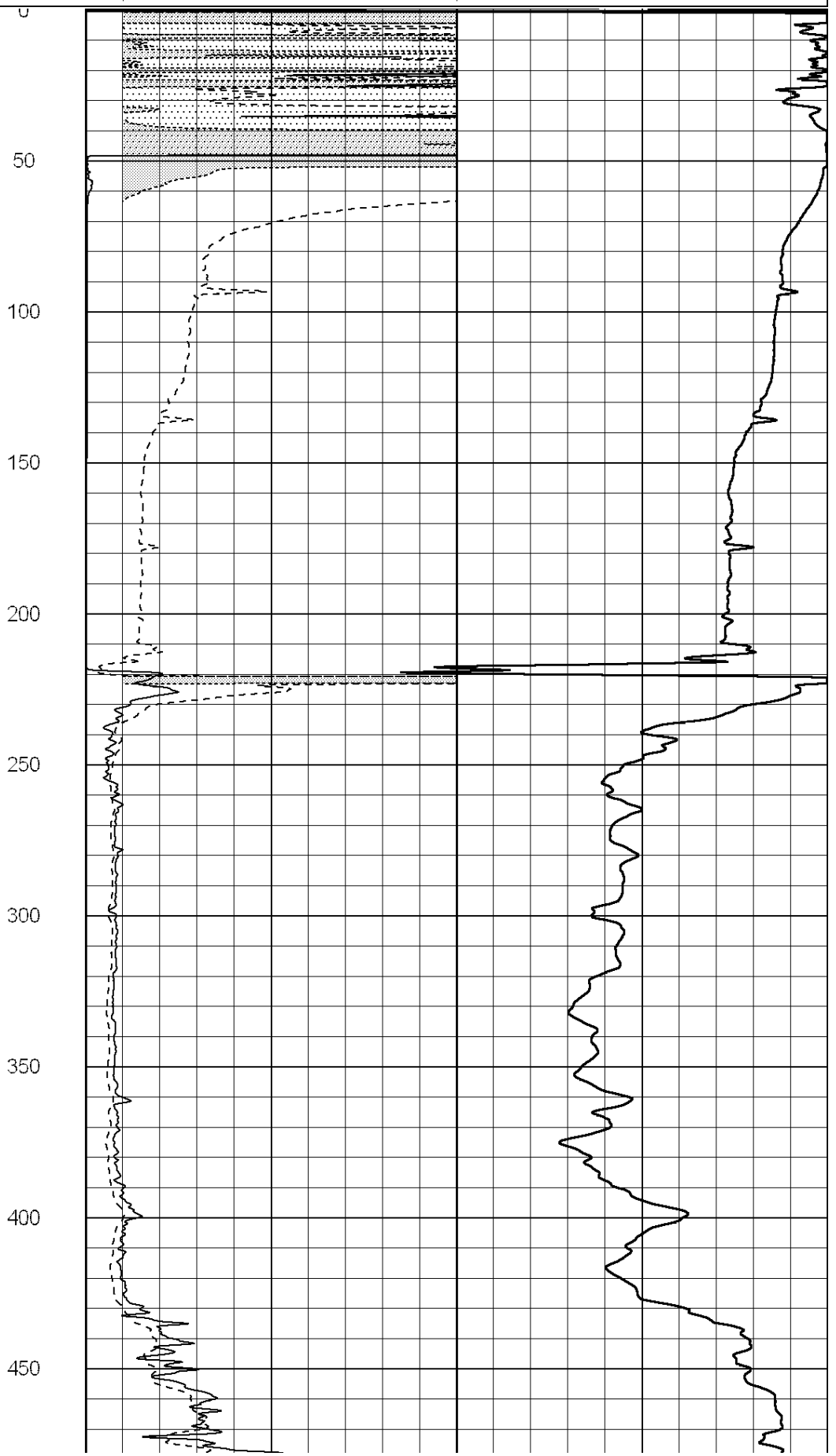
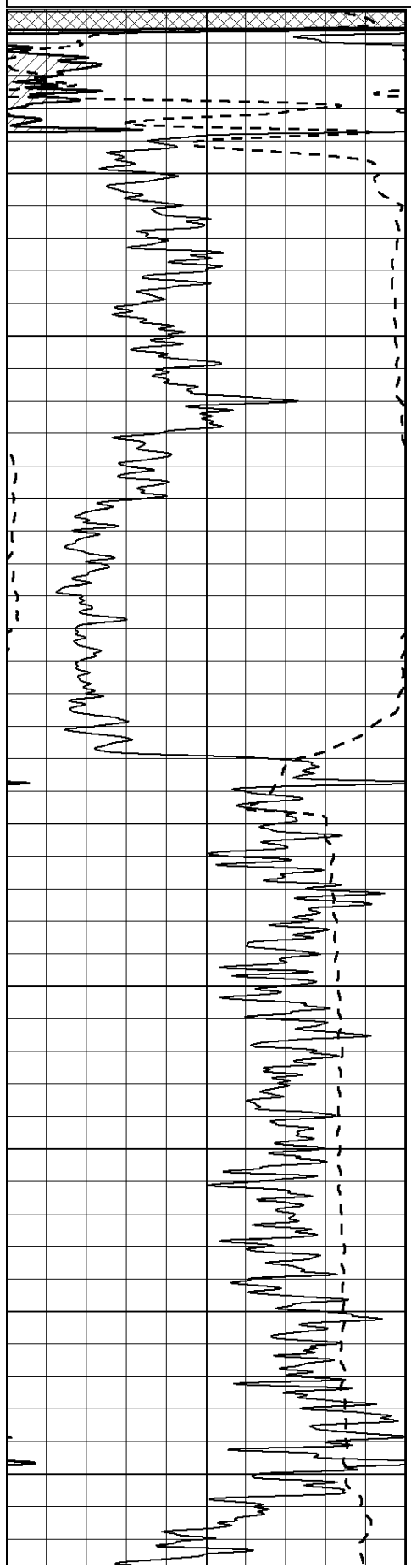
Database File: 011254ddn.db  
Dataset Pathname: pass4.7  
Presentation Format: \_dil2  
Dataset Creation: Fri Jun 14 09:44:50 2013 by Calc Open-Cased 090629  
Charted by: Depth in Feet scaled 1:600

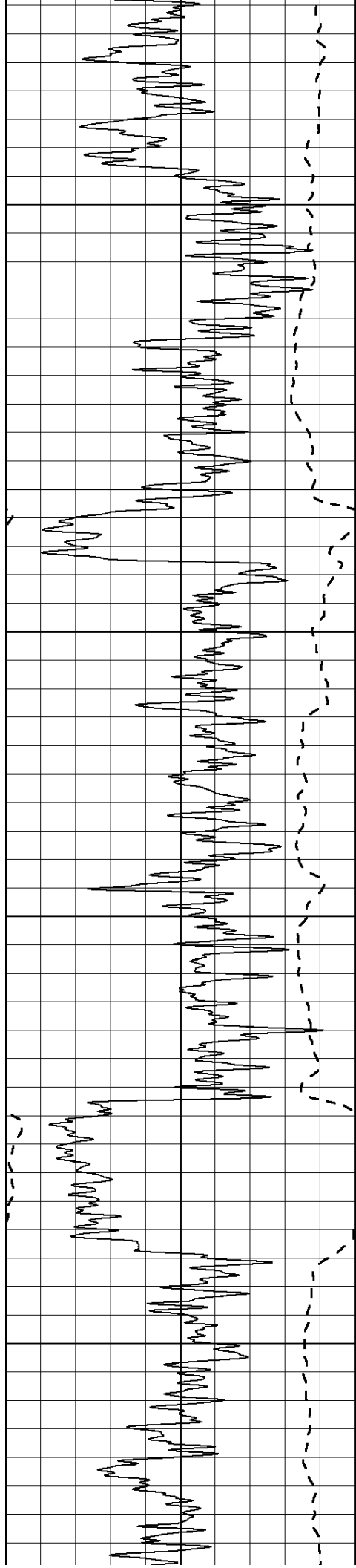
0	Gamma Ray (GAPI)	150
-100	SP (mV)	100

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

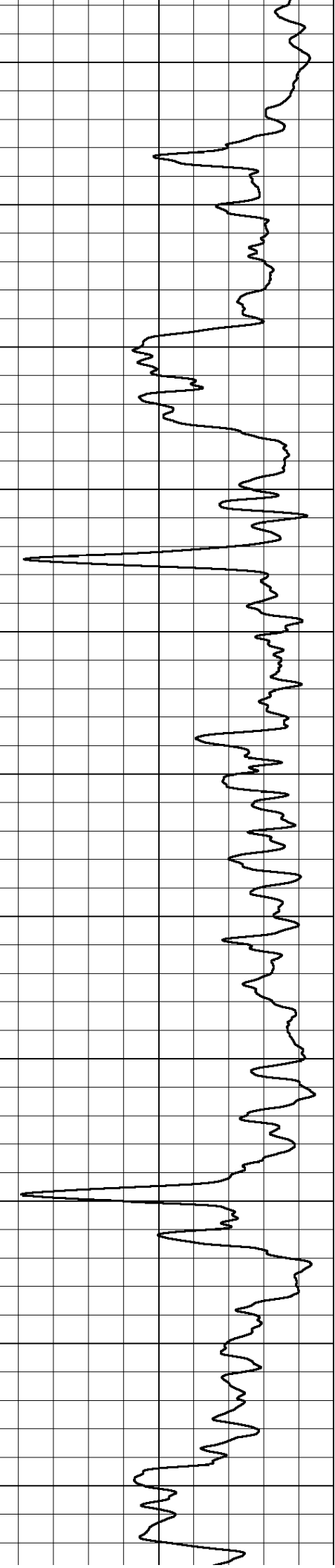
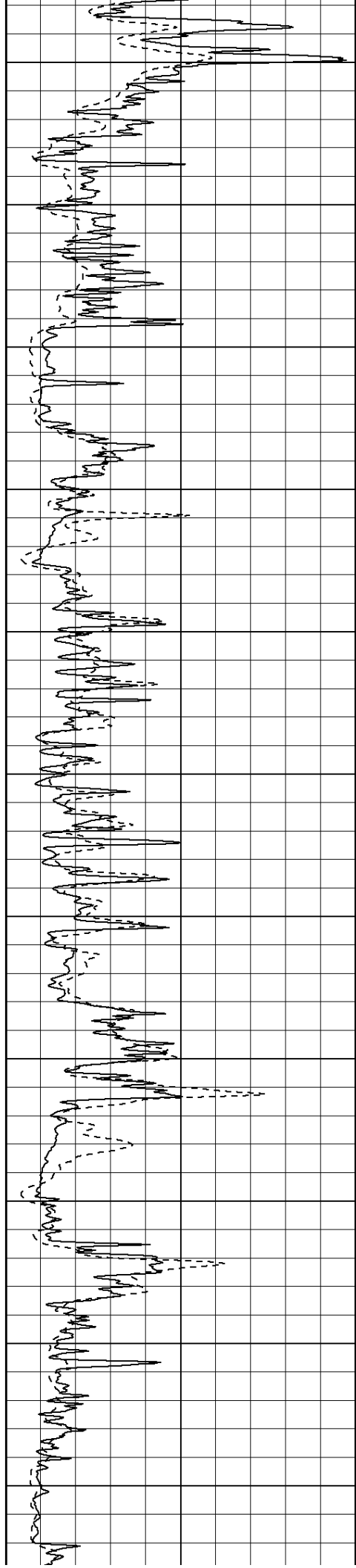
1000	CILD (mmho/m)	0
------	---------------	---

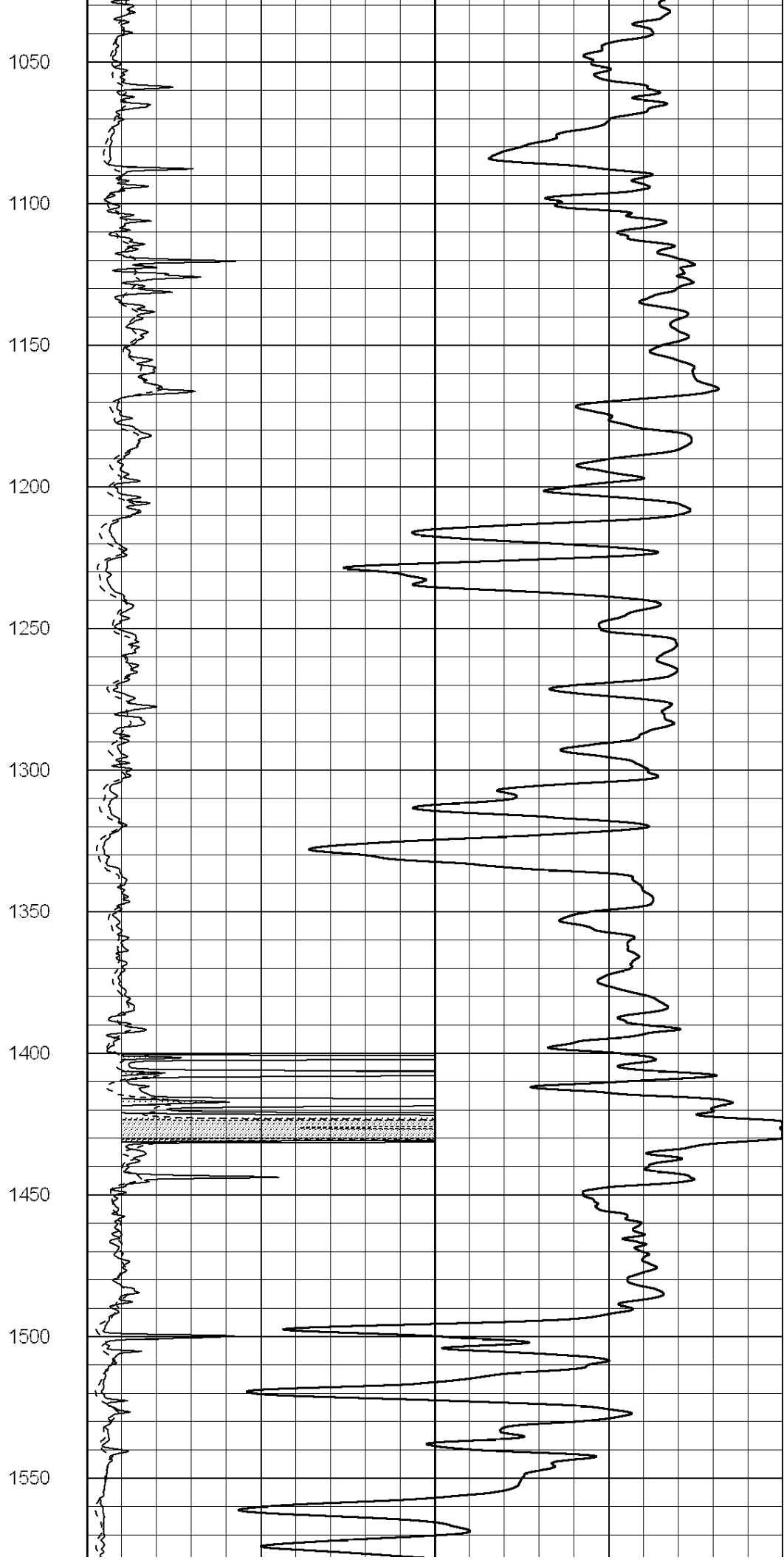
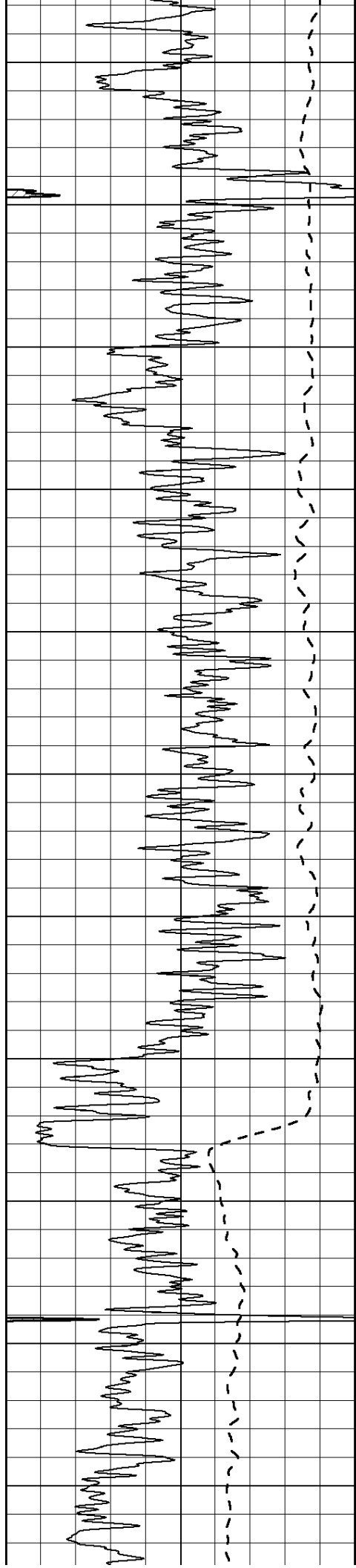
50	RILD X10 (Ohm-m)	500
50	RLL3 X10 (Ohm-m)	500

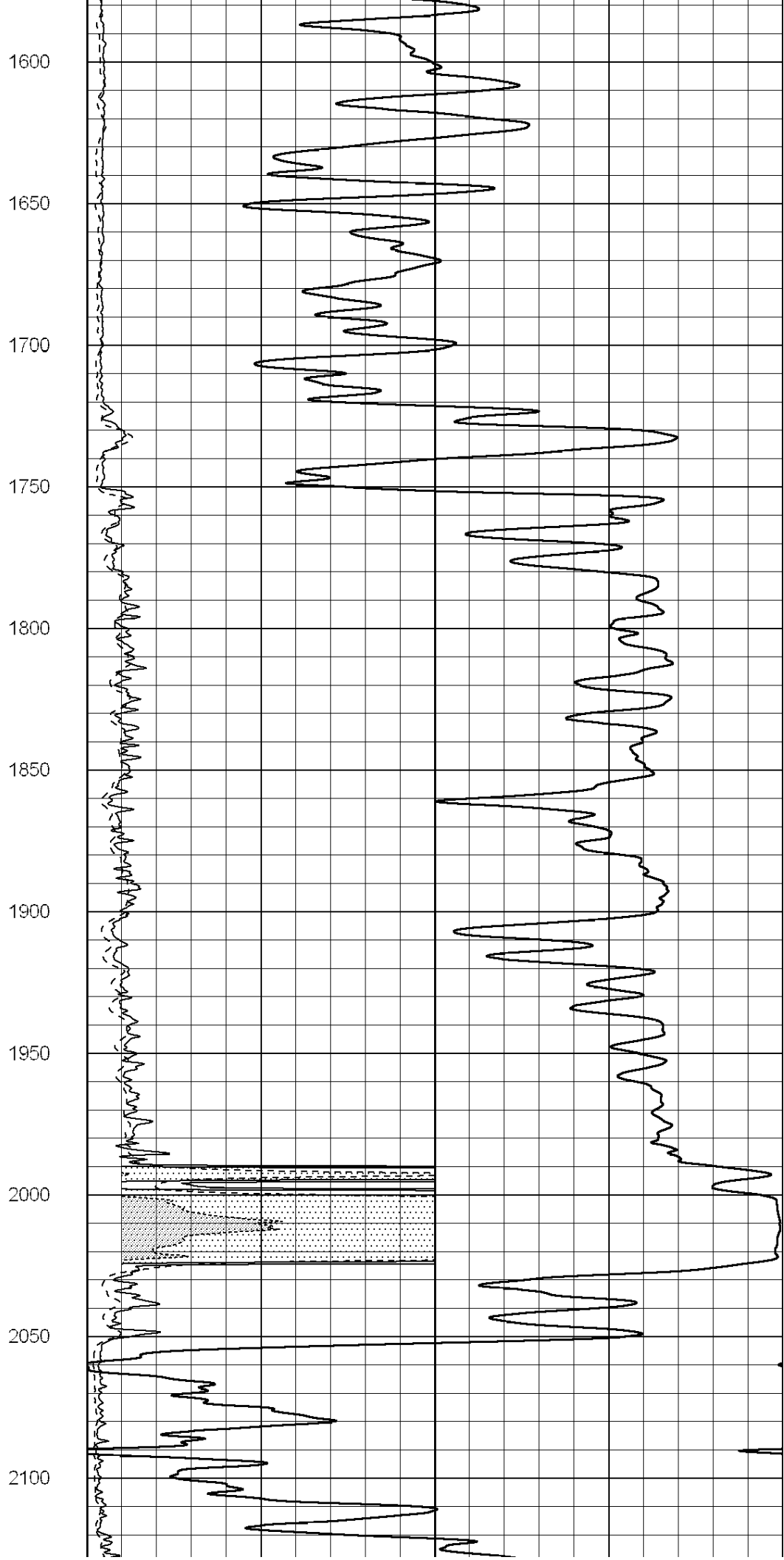
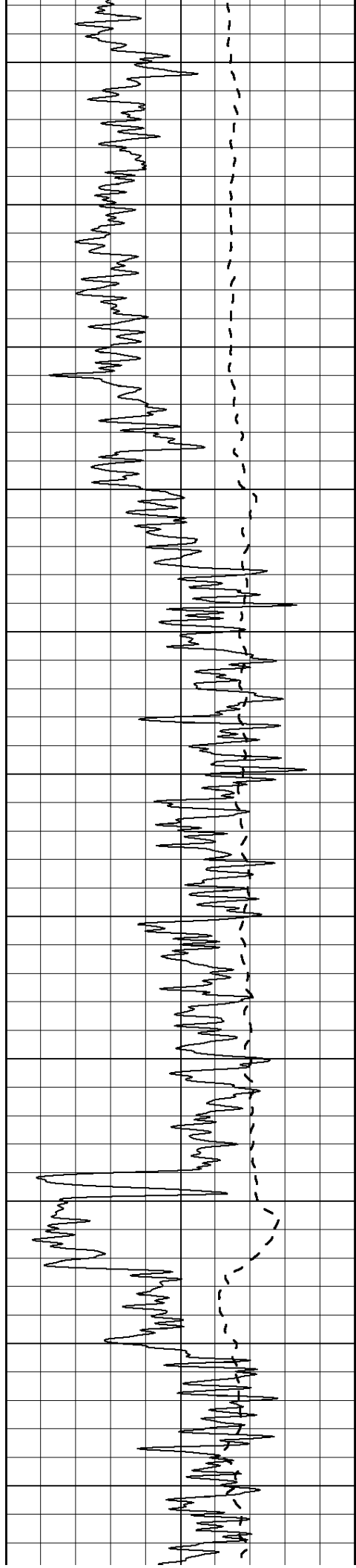


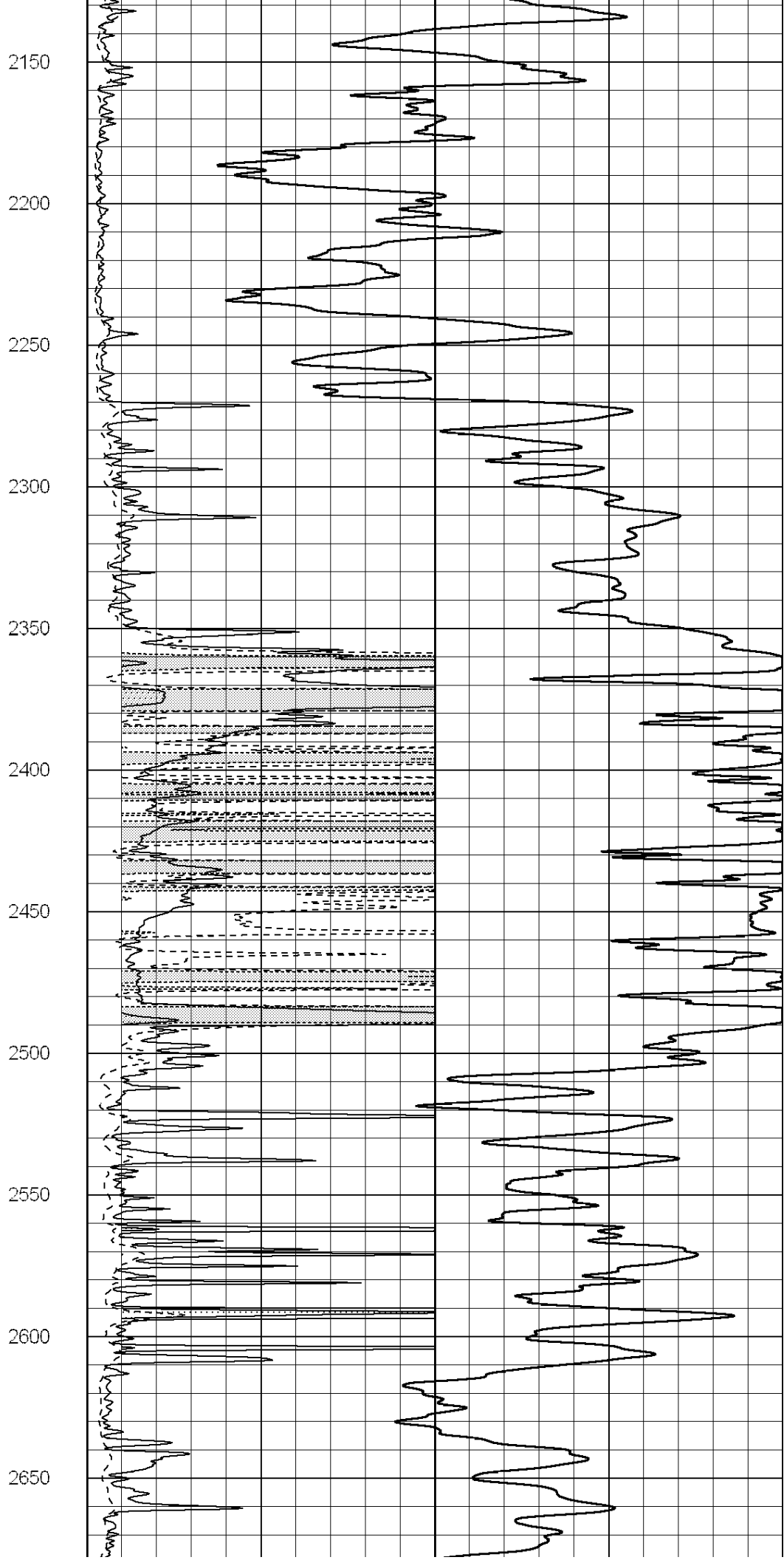
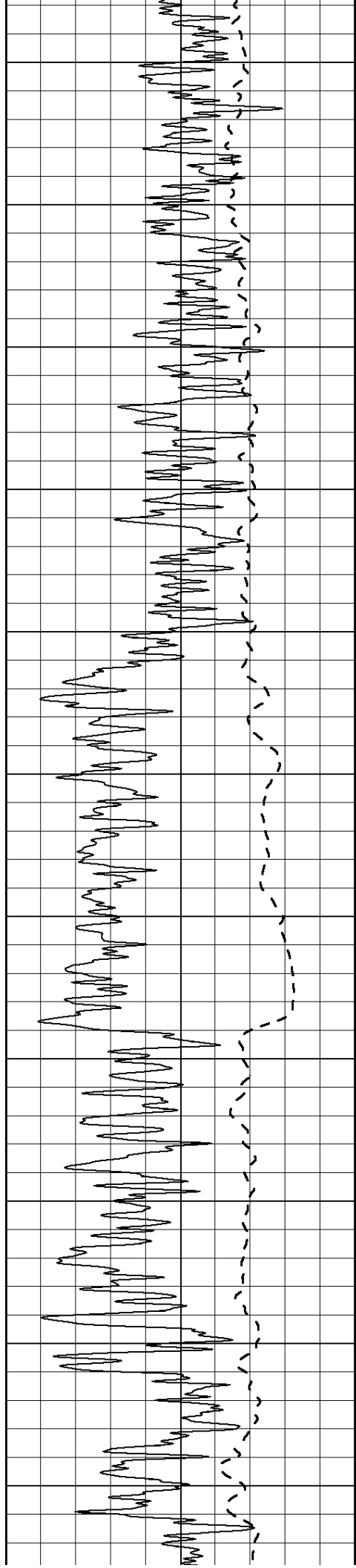


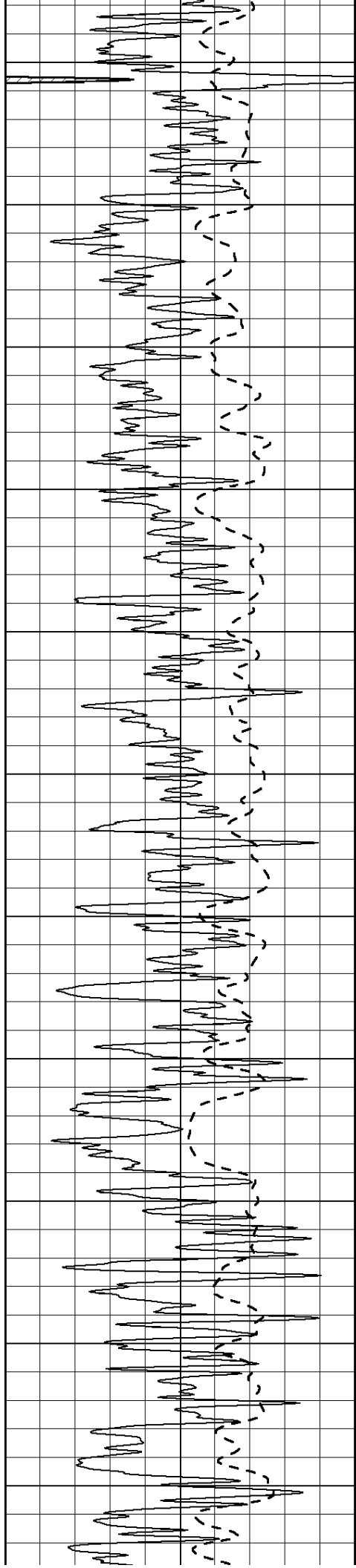
500  
550  
600  
650  
700  
750  
800  
850  
900  
950  
1000











2700

2750

2800

2850

2900

2950

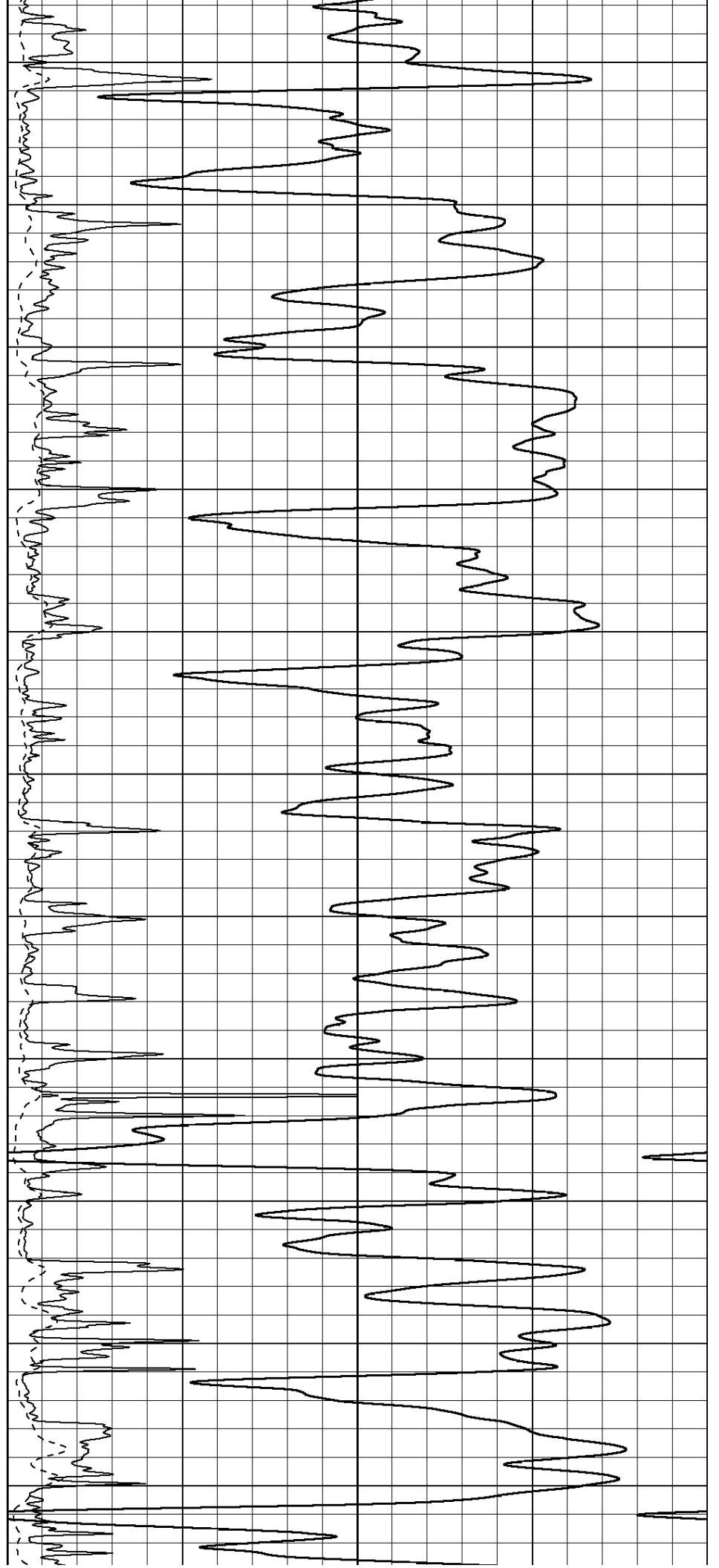
3000

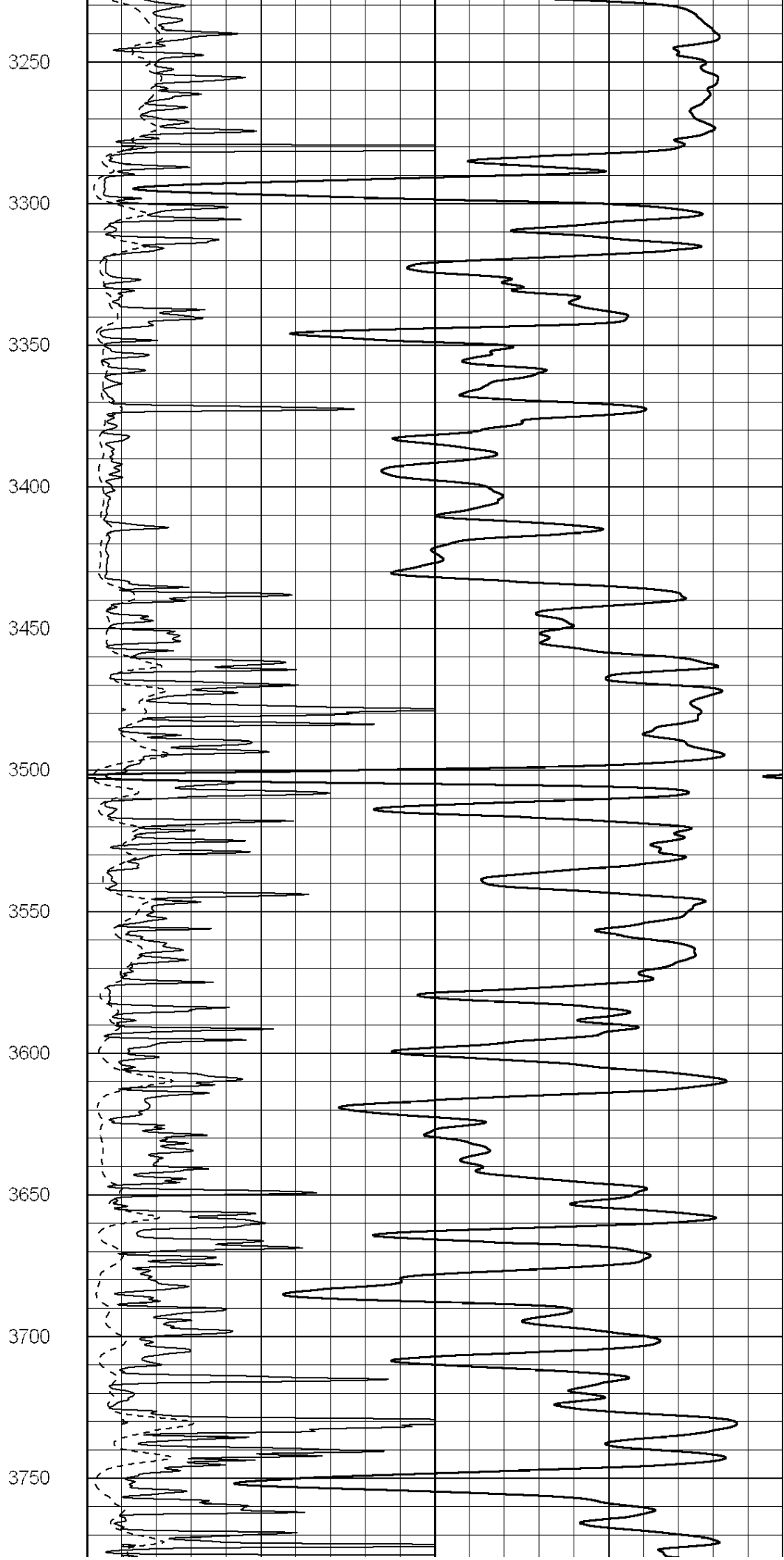
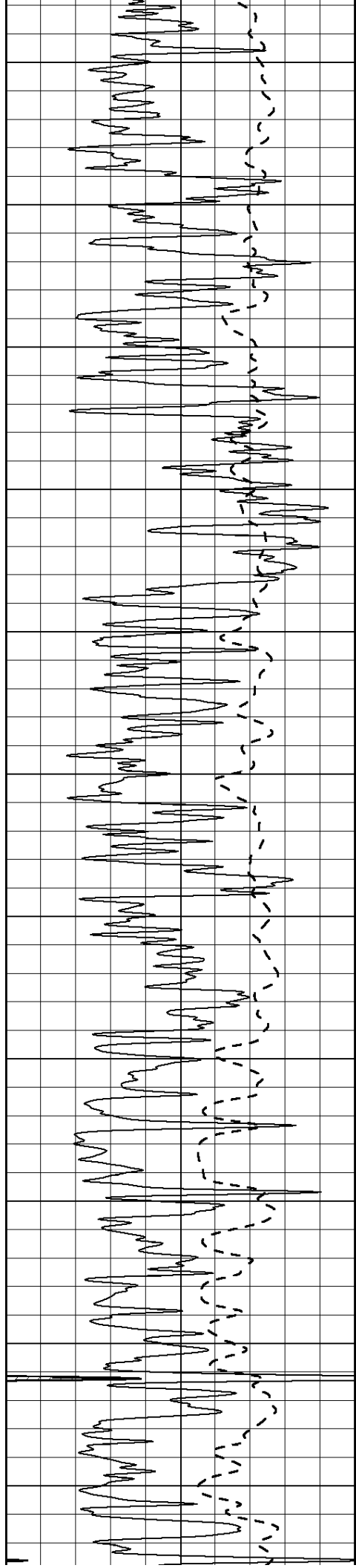
3050

3100

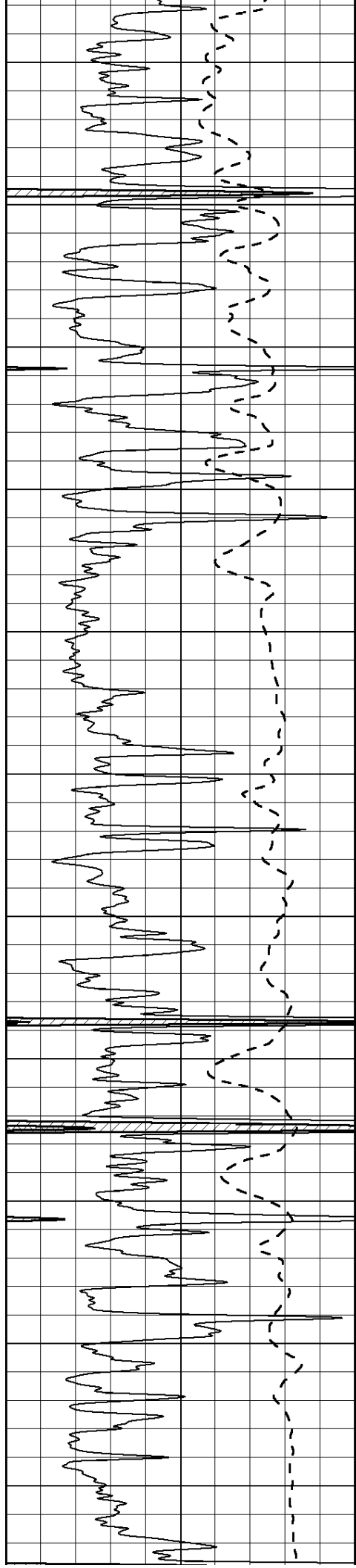
3150

3200

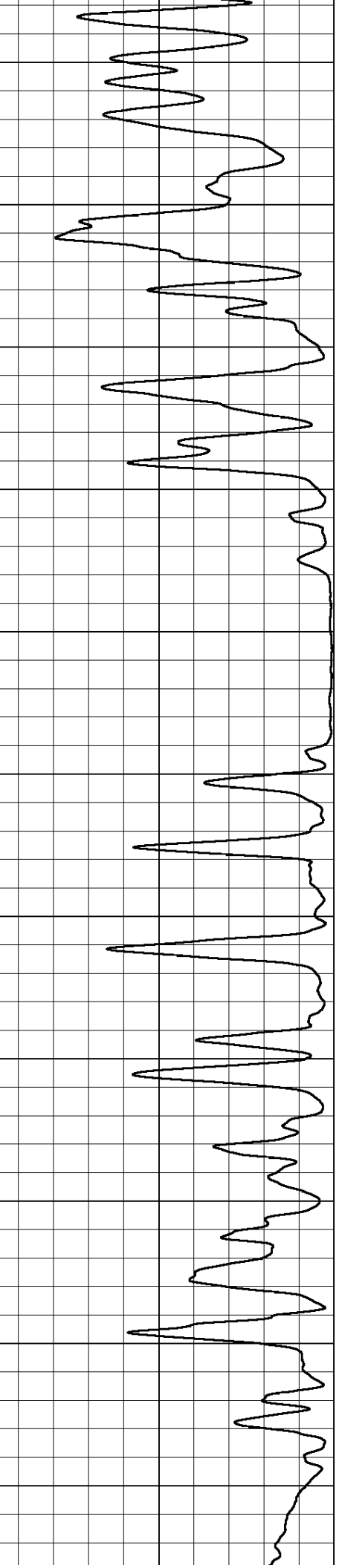
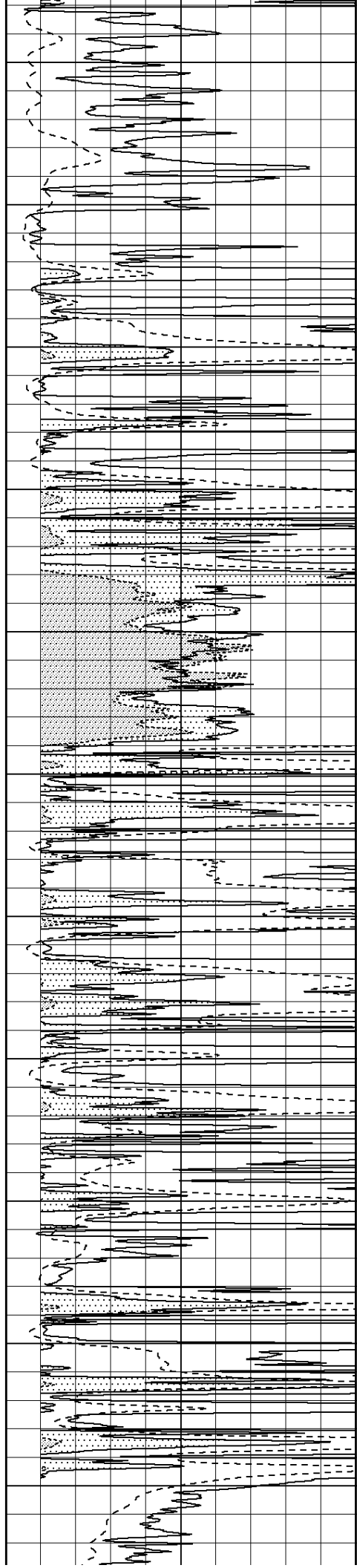


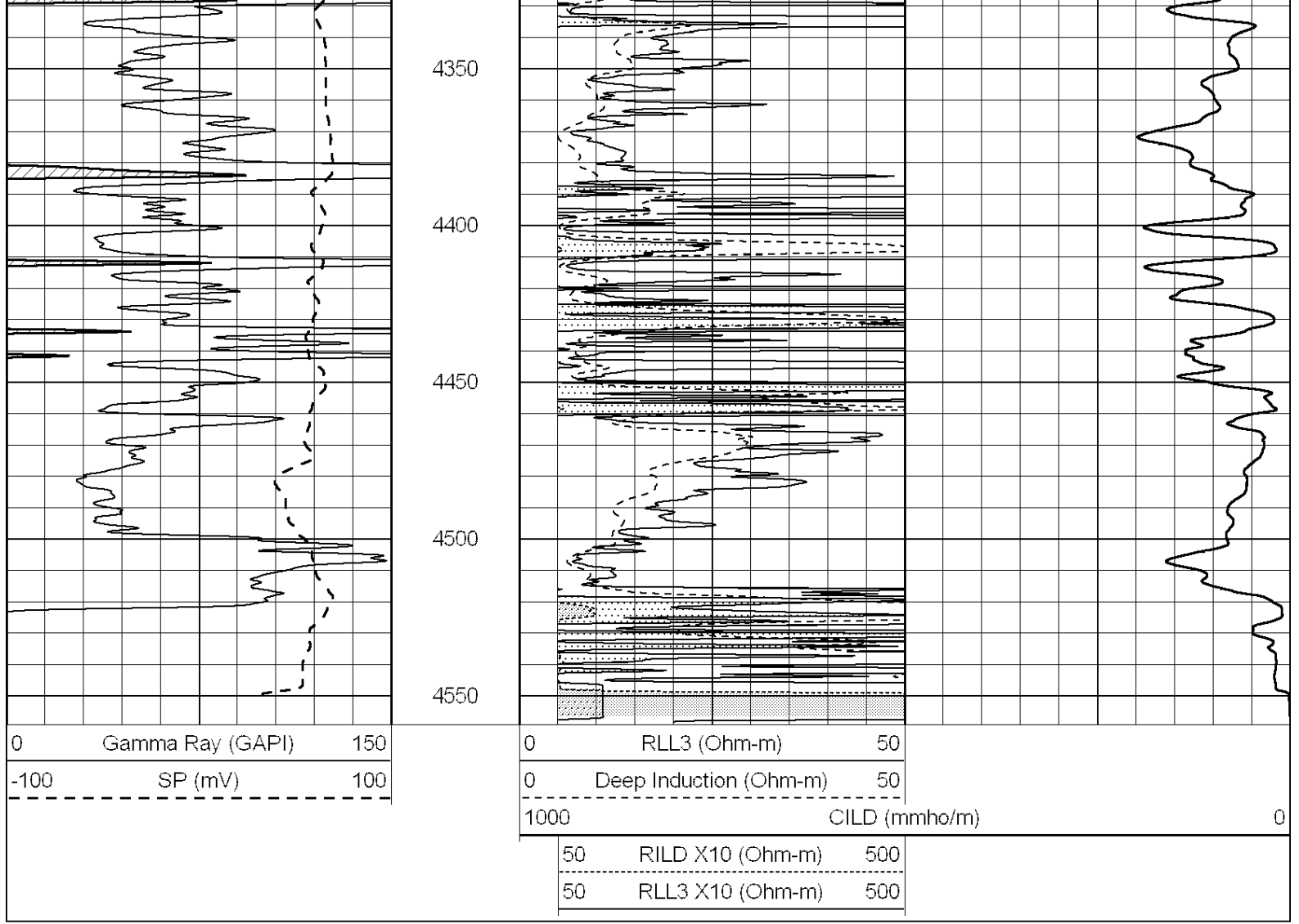






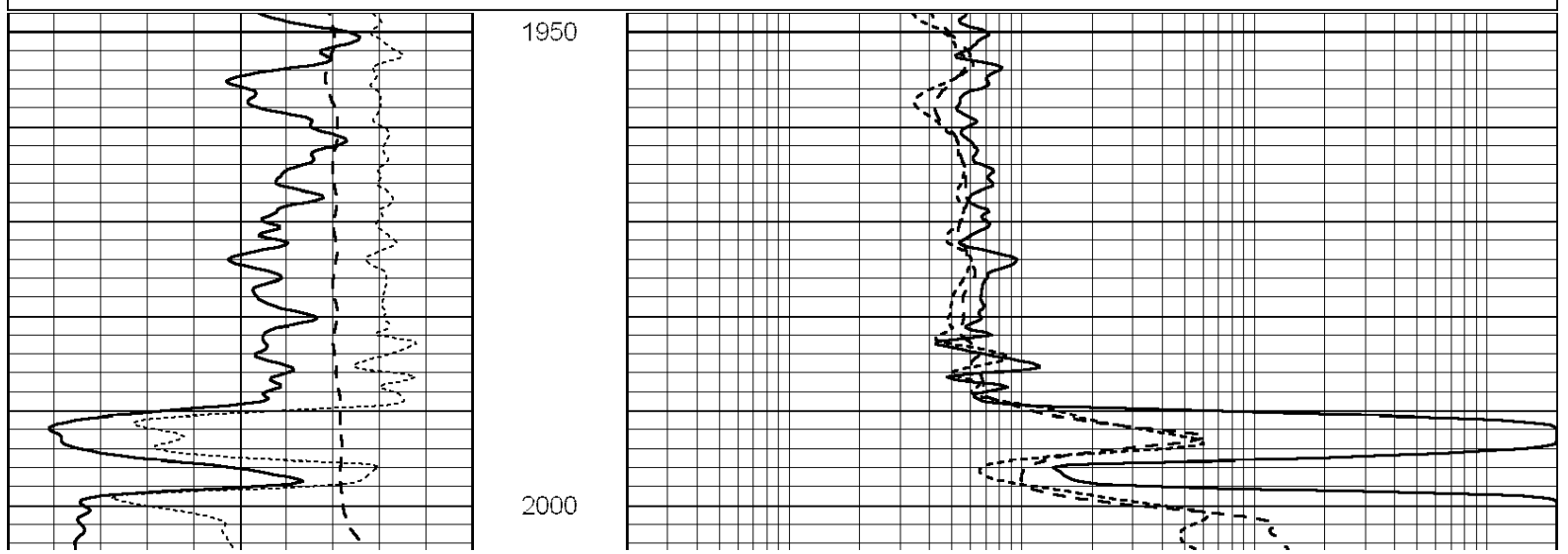
3800  
3850  
3900  
3950  
4000  
4050  
4100  
4150  
4200  
4250  
4300

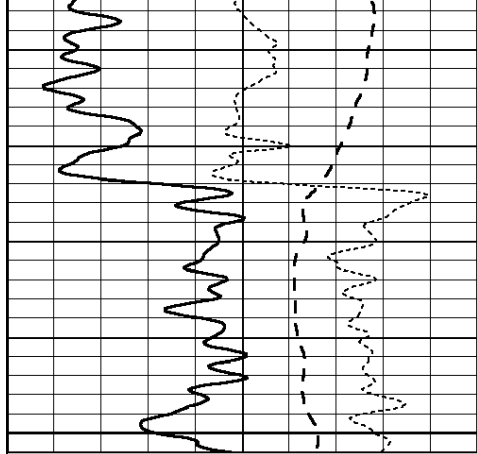




Database File: 011254ddn.db  
 Dataset Pathname: pass4.7  
 Presentation Format: \_dil  
 Dataset Creation: Fri Jun 14 09:44:50 2013 by Calc Open-Cased 090629  
 Charted by: Depth in Feet scaled 1:240

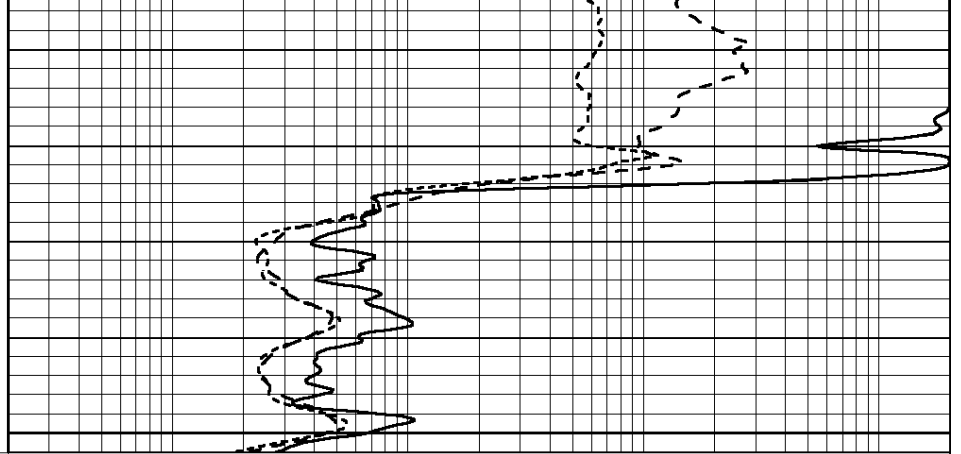
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%; text-align: center;">0</td> <td style="width: 80%;">GAMMA RAY (GAPI)</td> <td style="width: 10%; text-align: right;">150</td> </tr> <tr> <td style="text-align: center;">-100</td> <td>SP (mV)</td> <td style="text-align: right;">100</td> </tr> <tr> <td style="text-align: center;">-250</td> <td>Rxo/Rt</td> <td style="text-align: right;">50</td> </tr> </table>	0	GAMMA RAY (GAPI)	150	-100	SP (mV)	100	-250	Rxo/Rt	50	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%; text-align: center;">0.2</td> <td style="width: 80%;">SHALLOW GUARD (Ohm-m)</td> <td style="width: 10%; text-align: right;">2000</td> </tr> <tr> <td style="text-align: center;">0.2</td> <td>MEDIUM INDUCTION (Ohm-m)</td> <td style="text-align: right;">2000</td> </tr> <tr> <td style="text-align: center;">0.2</td> <td>DEEP INDUCTION (Ohm-m)</td> <td style="text-align: right;">2000</td> </tr> </table>	0.2	SHALLOW GUARD (Ohm-m)	2000	0.2	MEDIUM INDUCTION (Ohm-m)	2000	0.2	DEEP INDUCTION (Ohm-m)	2000
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																	





2050

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

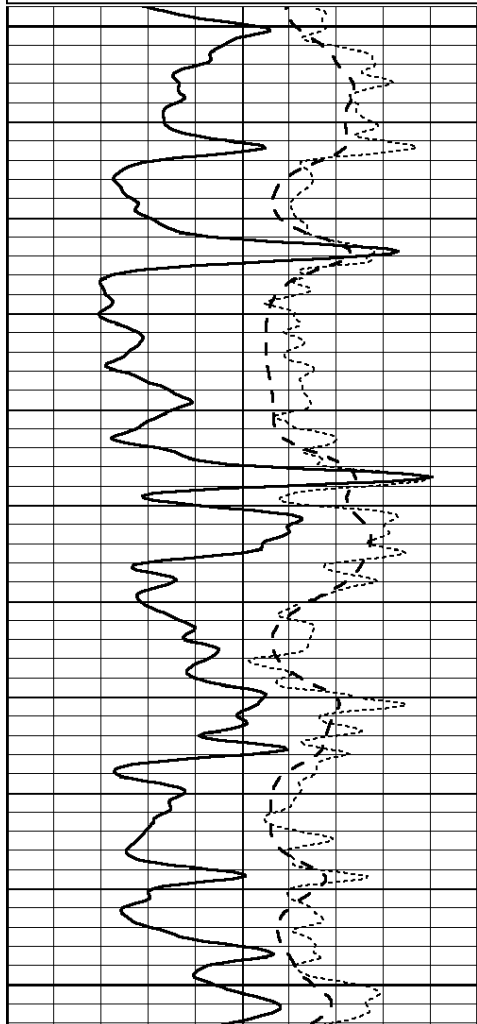


0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000

Database File: 011254ddn.db  
 Dataset Pathname: pass4.4  
 Presentation Format: dil  
 Dataset Creation: Fri Jun 14 08:58:01 2013 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

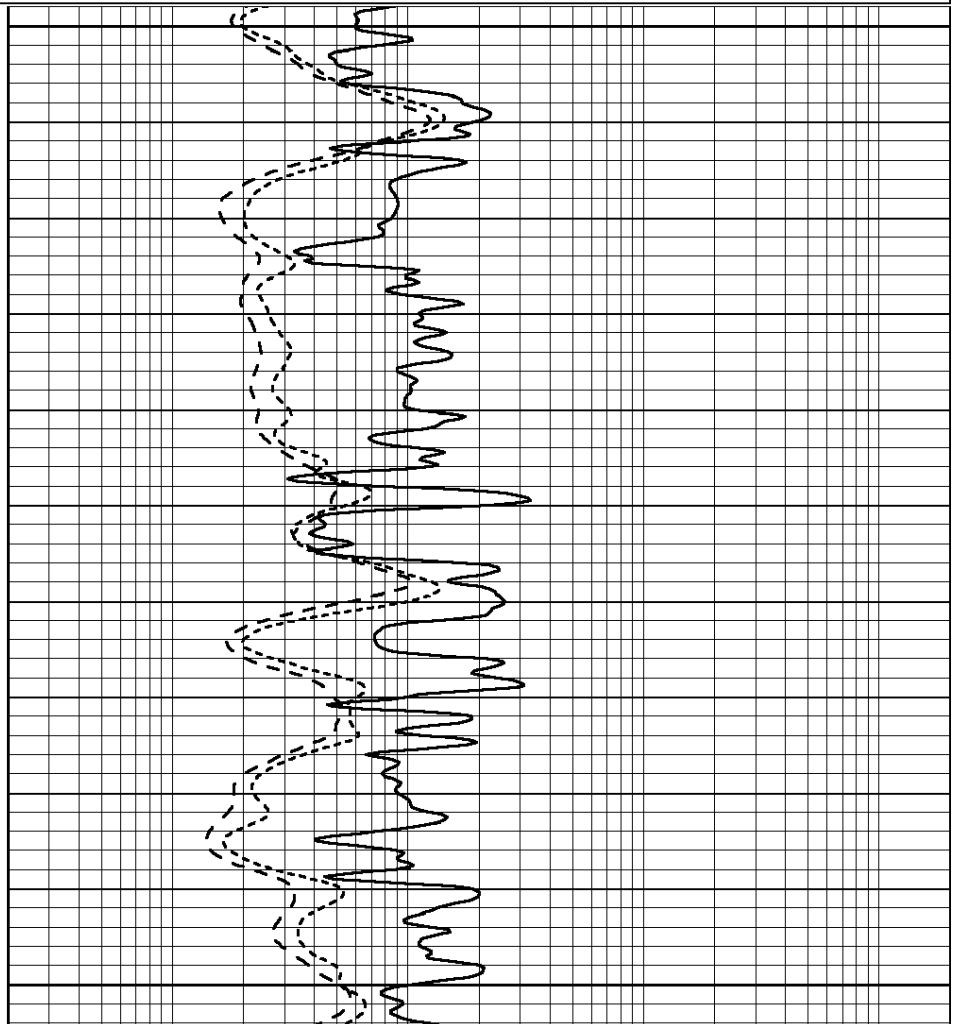
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000

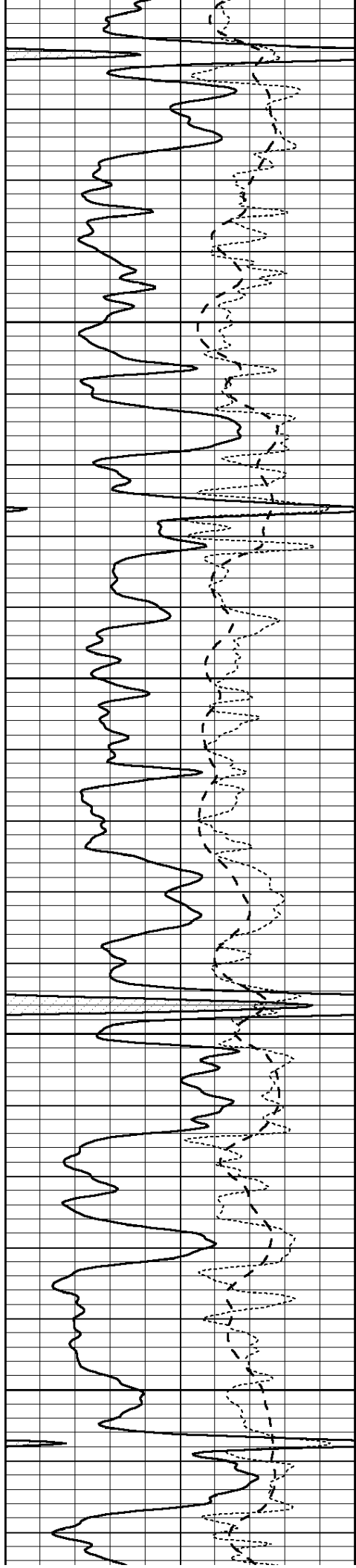


3600

3650

3700



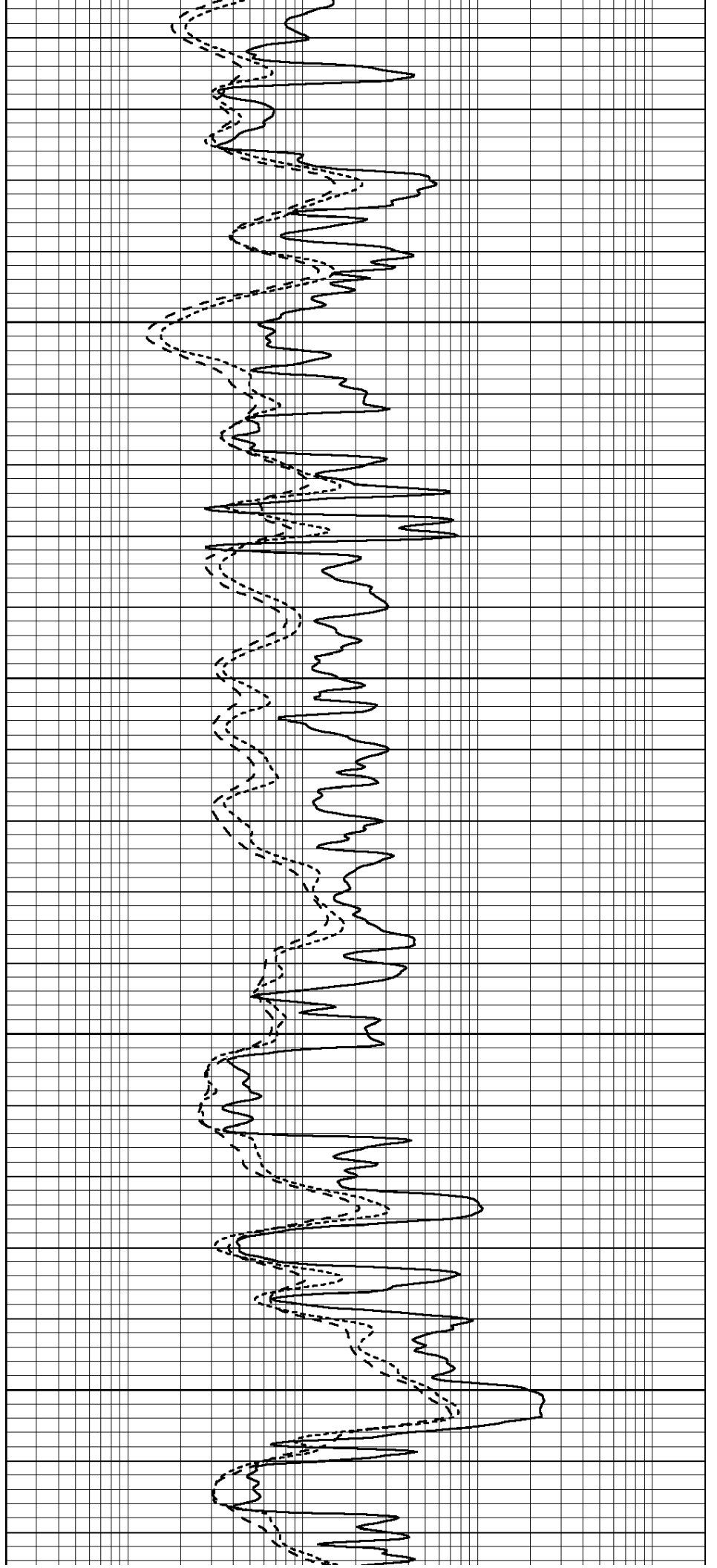


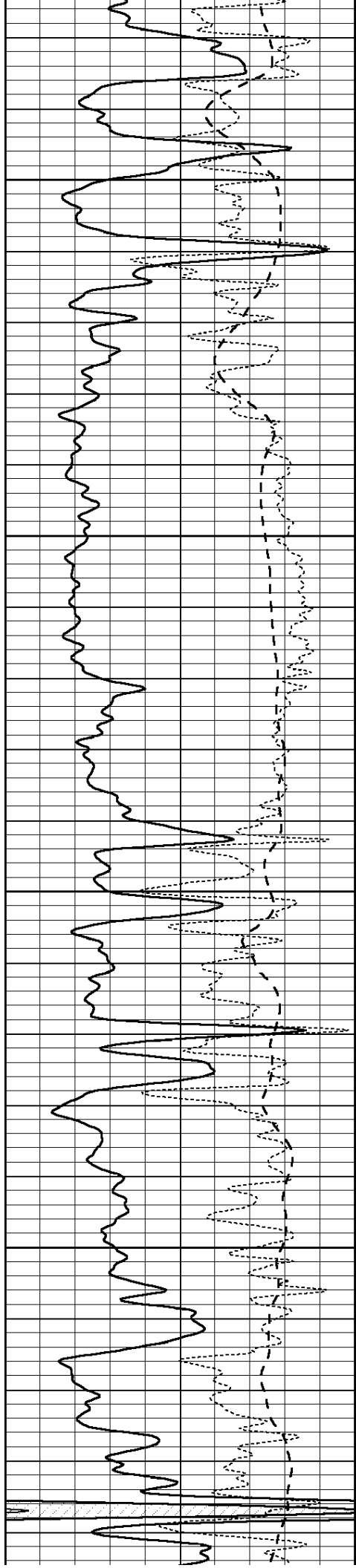
3750

3800

3850

3900



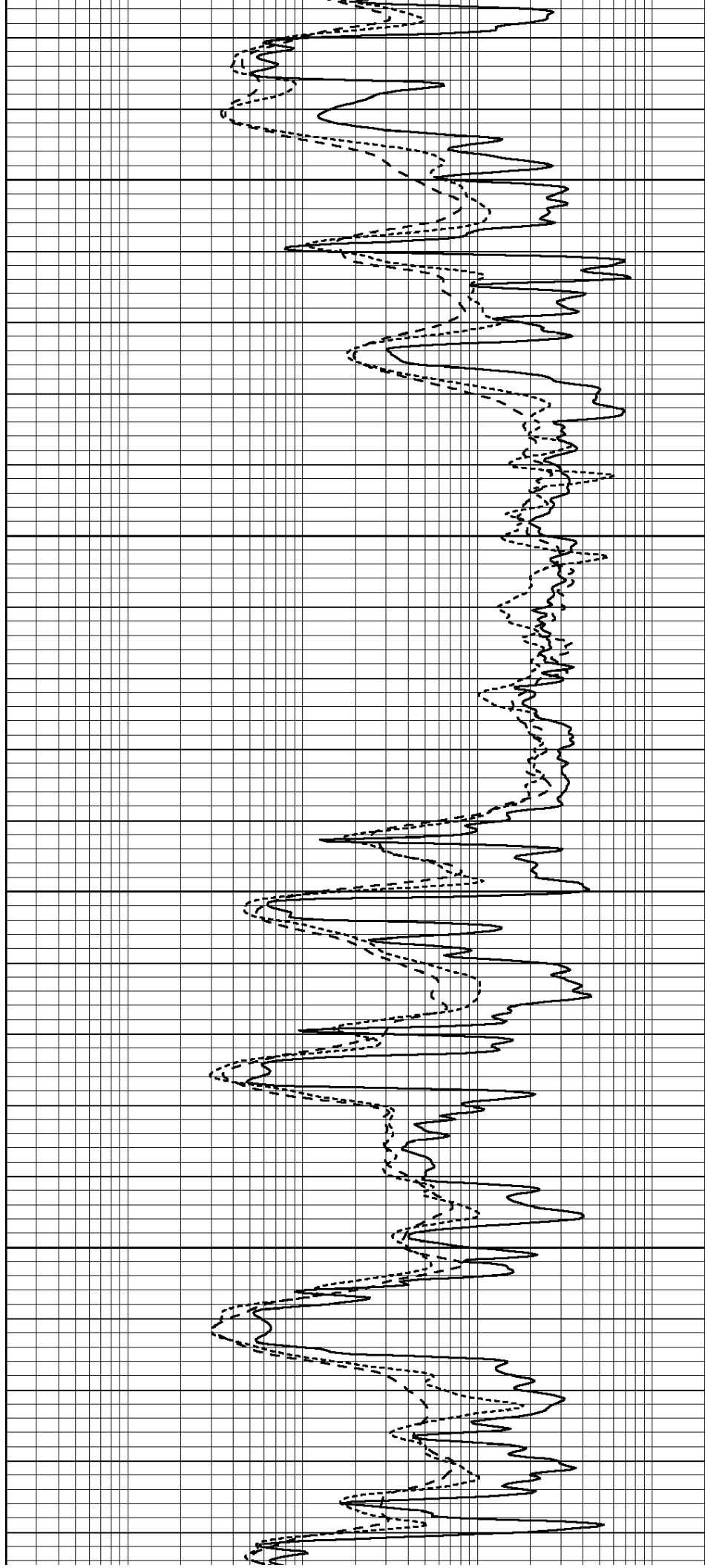


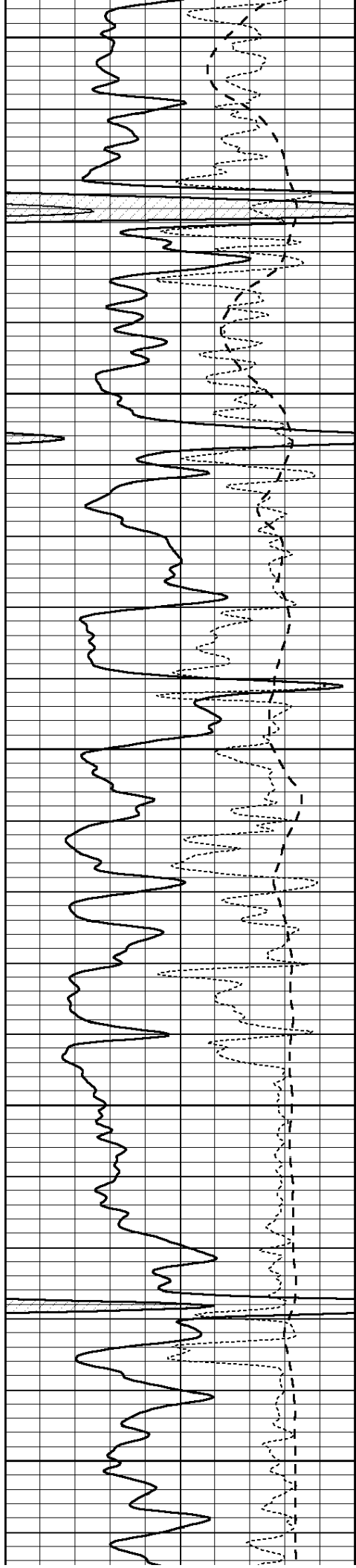
3950

4000

4050

4100





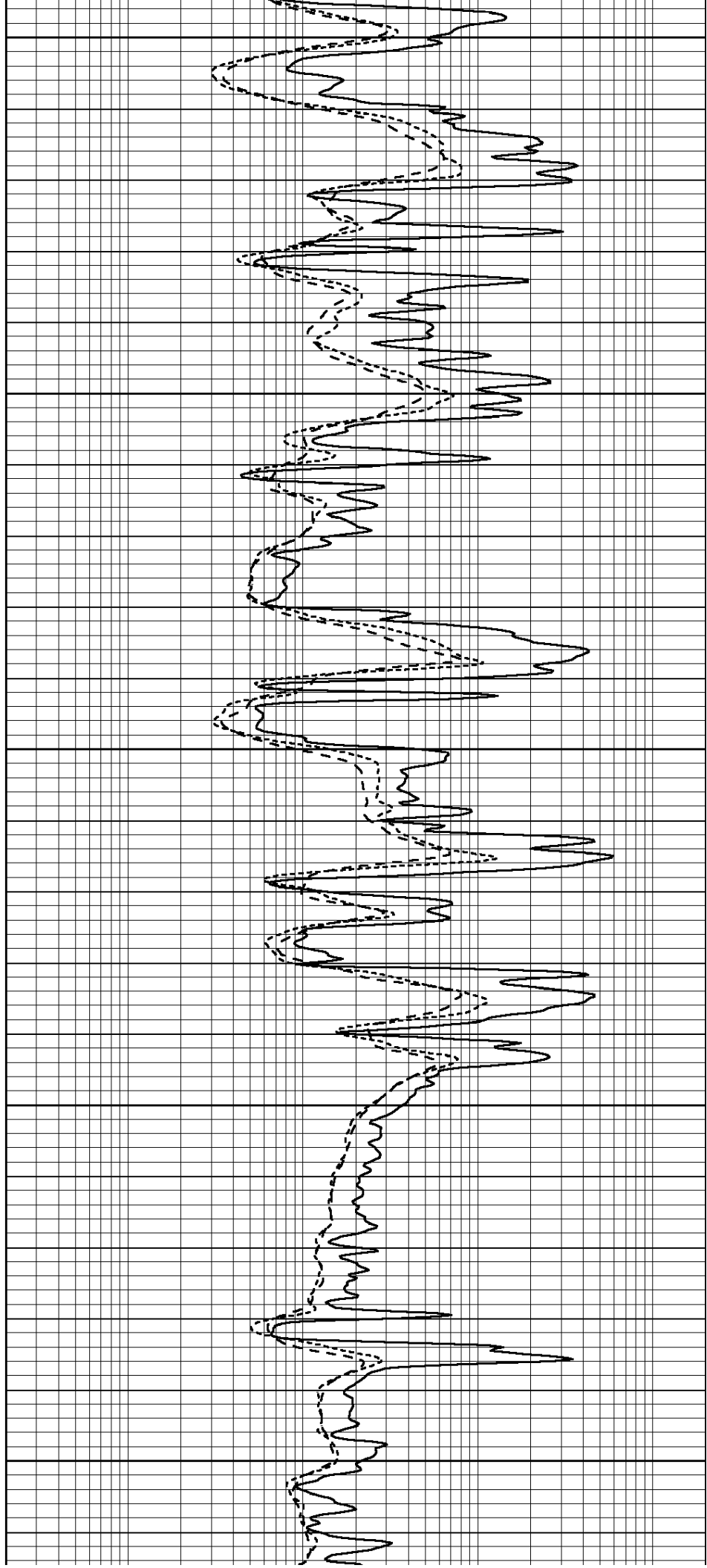
4150

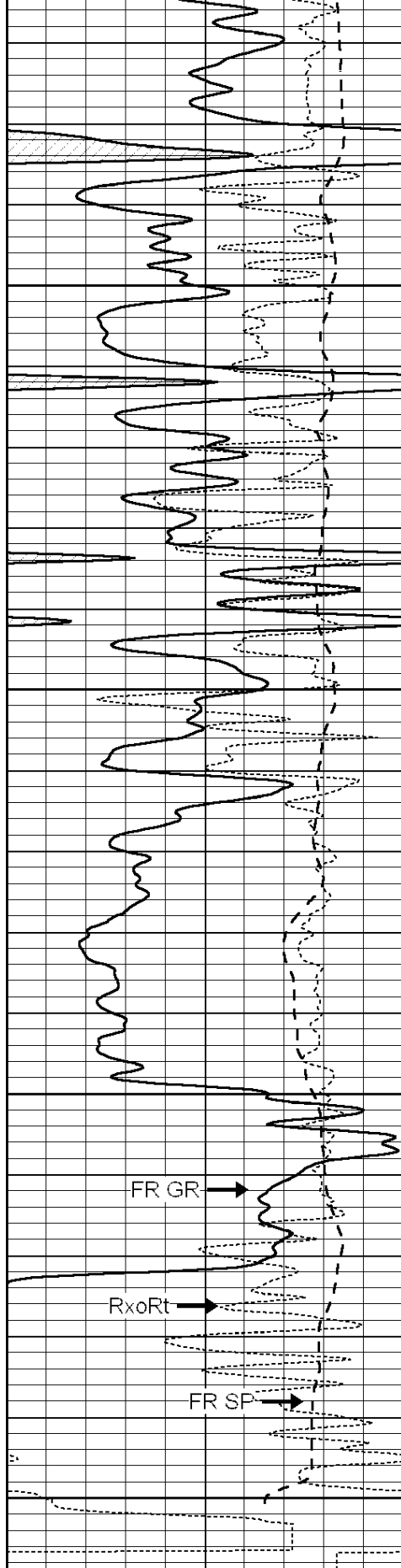
4200

4250

4300

4350





4400

4450

4500

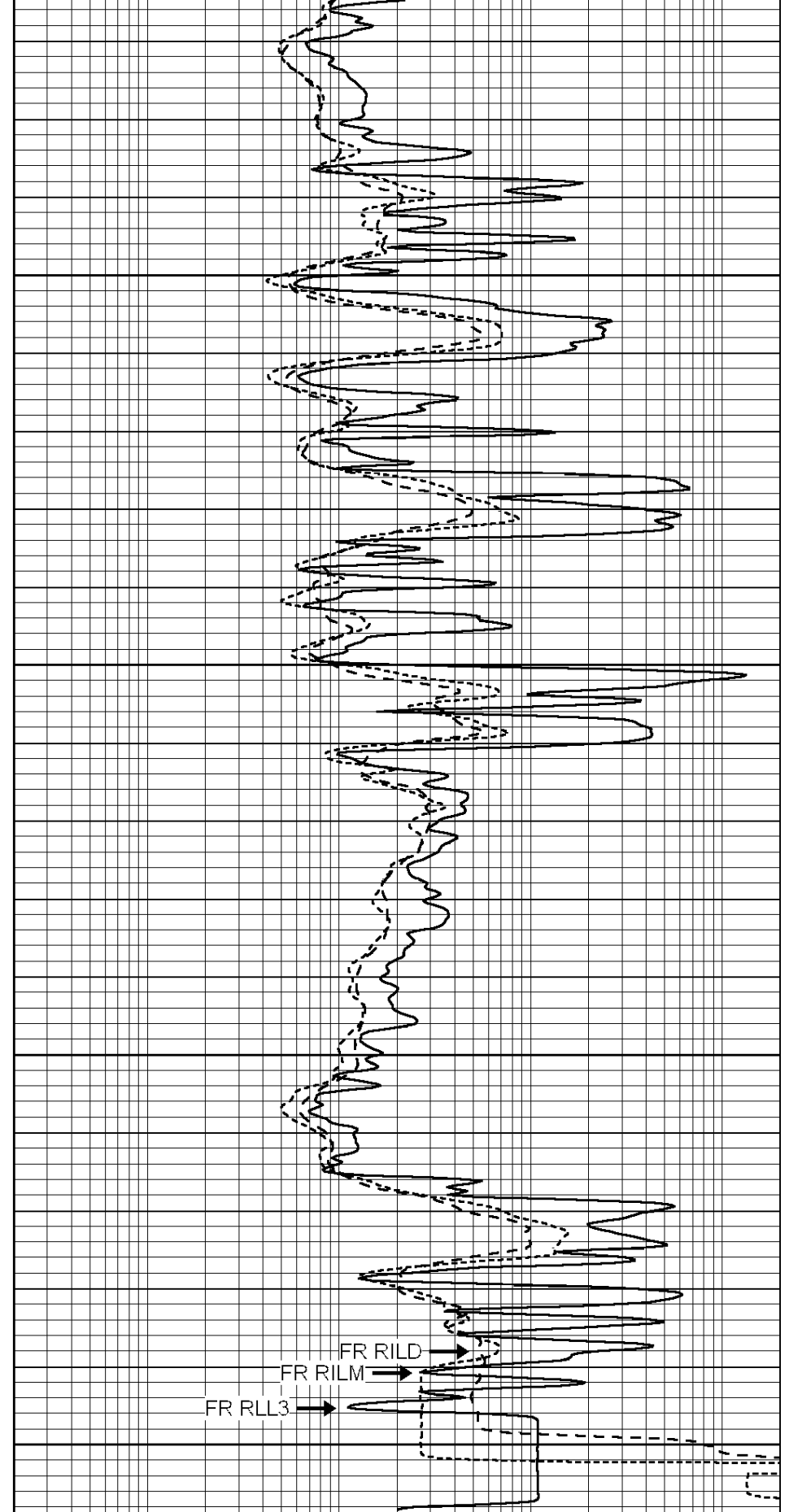
FR GR →

RxoRt →

FR SP →

LTD 4548  
4550

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



FR RILD →  
FR RILM →  
FR RLL3 →

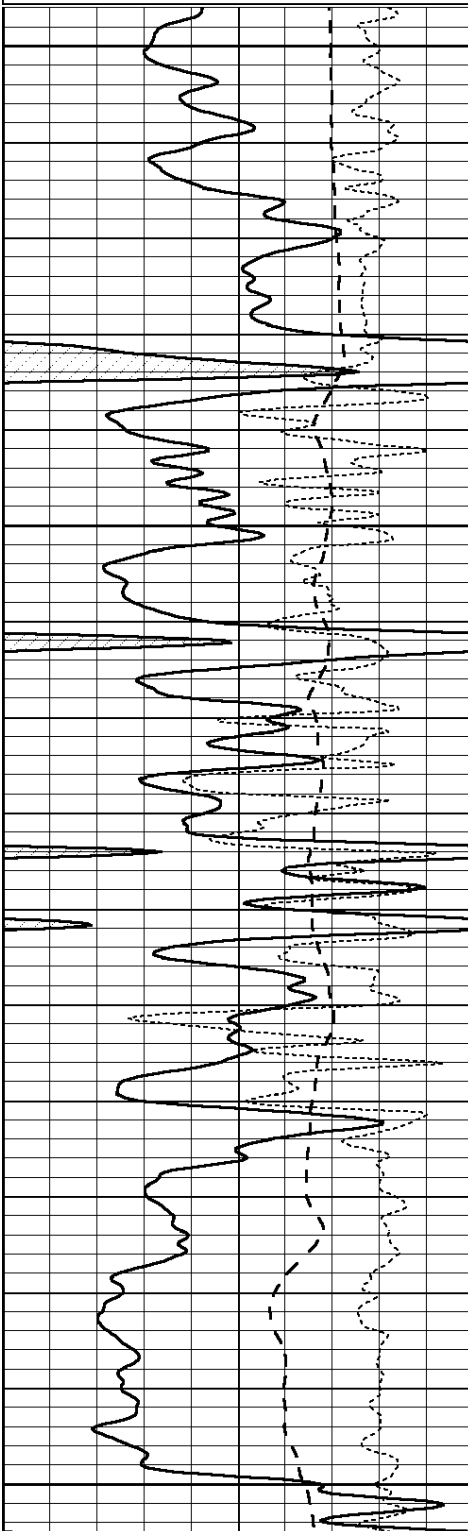
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000

# REPEAT SECTION

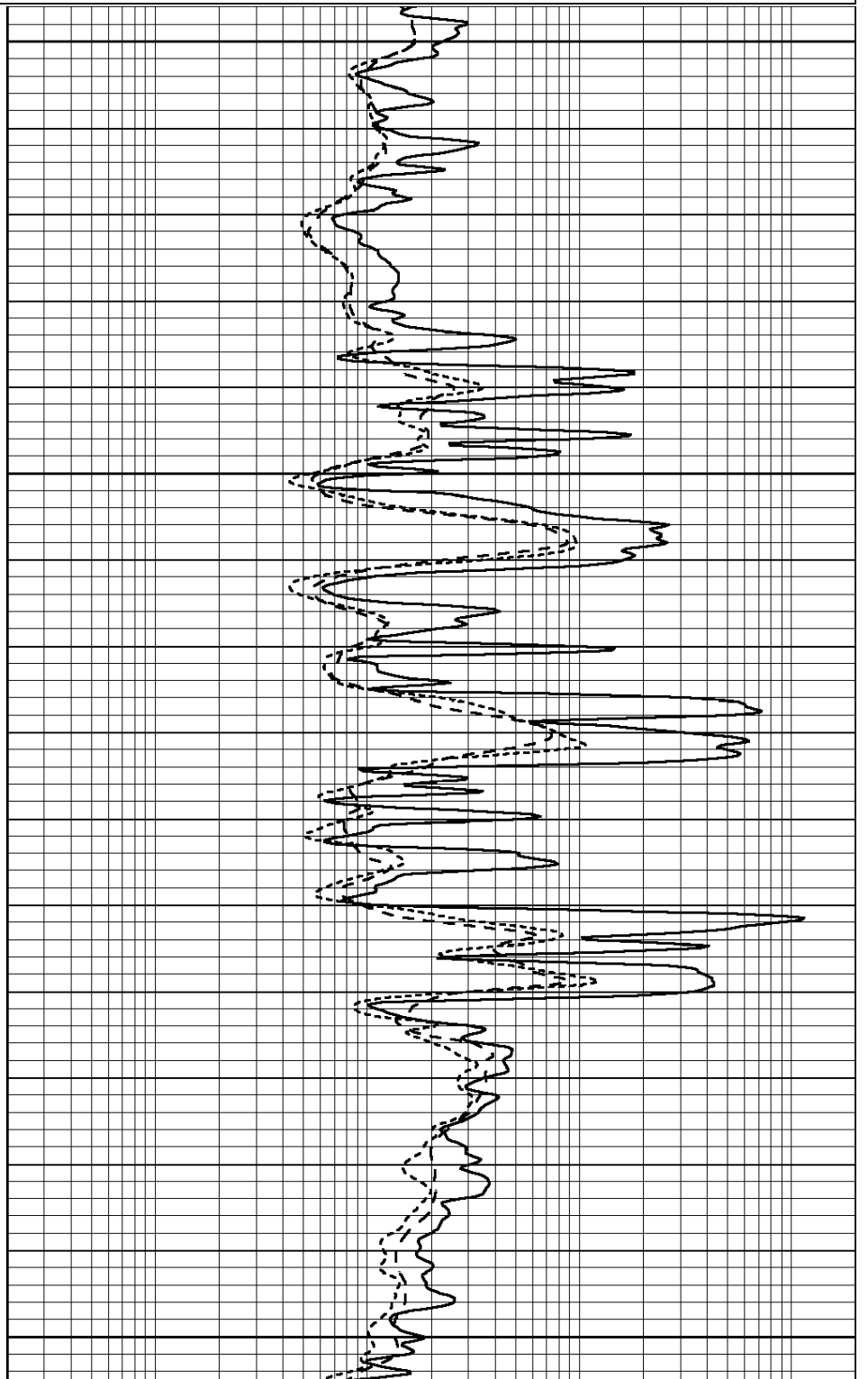
Database File: 011254ddn.db  
 Dataset Pathname: pass3.1  
 Presentation Format: \_dil  
 Dataset Creation: Fri Jun 14 08:20:08 2013 by Calc Open-Cased 090629  
 Charted by: Depth in Feet scaled 1:240

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

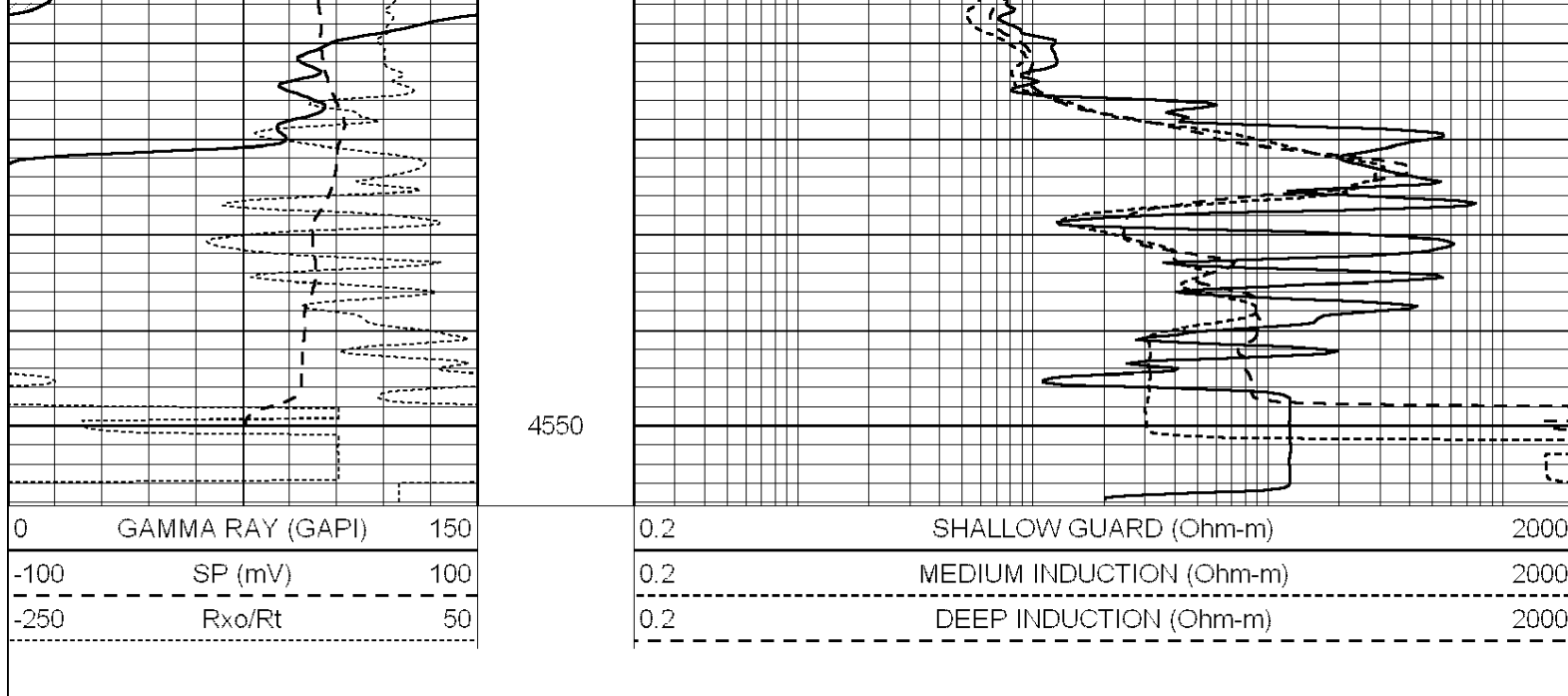
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000



4350  
4400  
4450  
4500







### Calibration Report

Database File: 011254ddn.db  
 Dataset Pathname: pass4.7  
 Dataset Creation: Fri Jun 14 09:44:50 2013 by Calc Open-Cased 090629

### Dual Induction Calibration Report

Serial-Model: PROBE8-DILG  
 Surface Cal Performed: Fri Aug 01 06:33:19 2008  
 Downhole Cal Performed: Mon Jul 28 11:08:27 2008  
 After Survey Verification Performed: Mon Jul 28 11:08:27 2008

#### Surface Calibration

Loop:	Readings			References			Results	
	Air	Loop		Air	Loop		m	b
Deep	0.015	0.648	V	0.000	400.000	mmho/m	632.616	-9.730
Medium	0.029	0.796	V	0.000	464.000	mmho/m	605.049	-17.680
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.017	0.657	V	0.000	400.000	mmho/m	625.153	-10.619
Medium	0.016	0.757	V	0.000	464.000	mmho/m	625.992	-9.739

#### Downhole Calibration

	Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	2.011	405.777	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	7.590	503.393	mmho/m	1.000	0.000
LL3		7.500	V		1500.000	Ohm-m		
		0.000	V		20.000	Ohm-m		
		-7.200	V		3800.000	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  
1.000 mmho-m

0.000 Ohm-m  
1.000 mmho-m

Compensated Density Calibration Report

Serial-Model: GEAR4-GEARHART  
Source / Verifier: 143 / 143  
Master Calibration Performed: Mon Mar 19 19:07:19 2012

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.710	g/cc	1015.91	497.51	cps
Aluminum	2.600	g/cc	227.67	350.20	cps
Spine Angle = 76.79			Density/Spine Ratio = 0.579		
	Size		Reading		
Small Ring	8.00	in	3.21	V	
Large Ring	14.00	in	5.46	V	

Compensated Neutron Calibration Report

Serial Number: 6I  
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: #8  
Tool Model: OPEN  
Performed: Mon Jun 13 16:56:43 2011

Calibrator Value: 150.0 GAPI

Background Reading: 0.0 cps  
Calibrator Reading: 175.0 cps

Sensitivity: 0.8371 GAPI/cps