



NABORS

**COMPLETION
& PRODUCTION
SERVICES CO.**

**DUAL
INDUCTION
LOG**

Company		MAI OIL OPERATING, INC.	
Well		B & R DECHANT #2	
Field		RIVERSIDE SOUTHEAST	
County		NESS	
State		KANSAS	
Location:		APL # : 15-135-25827-00-00	
Permanent Datum		GROUND LEVEL Elevation 2210	
Log Measured From		KELLY BUSHING 9' A.G.L.	
Drilling Measured From		KELLY BUSHING	
SEC 19 TWP 20S RGE 22W		Other Services CNL/CDL MEL	
Date		11/20/14	
Run Number		ONE	
Depth Driller		4430	
Depth Logger		4426	
Bottom Logged Interval		4424	
Top Log Interval		00	
Casing Driller		8 5/8" @ 263	
Casing Logger		260'	
Bit Size		7 7/8"	
Type Fluid in Hole		CHEMICAL MUD	
Density / Viscosity		9.4/78	
pH / Fluid Loss		9.0/9.6	
Source of Sample		FLOWLINE	
Rm @ Meas. Temp		0.65 @ 70F	
Rmt @ Meas. Temp		0.49 @ 70F	
Rmc @ Meas. Temp		0.78 @ 70F	
Source of Rmt / Rmc		MEASUREMENT	
Rm @ BHT		0.37 @ 123F	
Time Circulation Stopped		2 HOURS	
Time Logger on Bottom		123F	
Maximum Recorded Temperature		4010	
Equipment Number		HAYS, KANSAS	
Location		IAN MABB	
Recorded By		WYATT URBAN	
Witnessed By			

<<< 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.

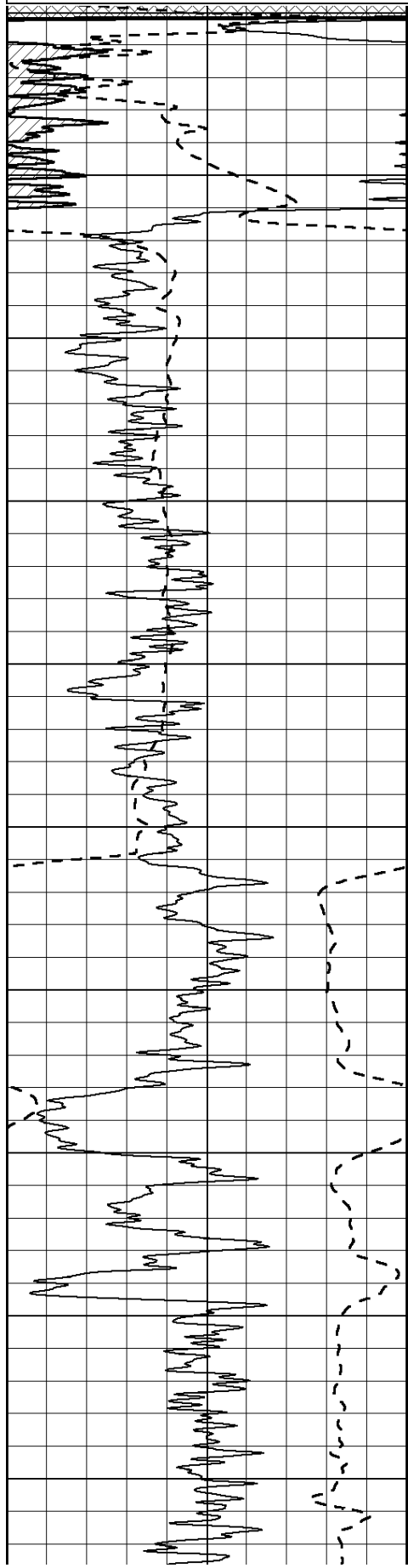
Comments

THANK YOU FOR USING NABORS, HAYS, KS. (785) 628-6395
DIRECTIONS:
BAZINE, KS. - SOUTH 9 MILES ON DD RD TO RD 40 - WEST TO RD Y - 1/2 SOUTH - WEST INTO

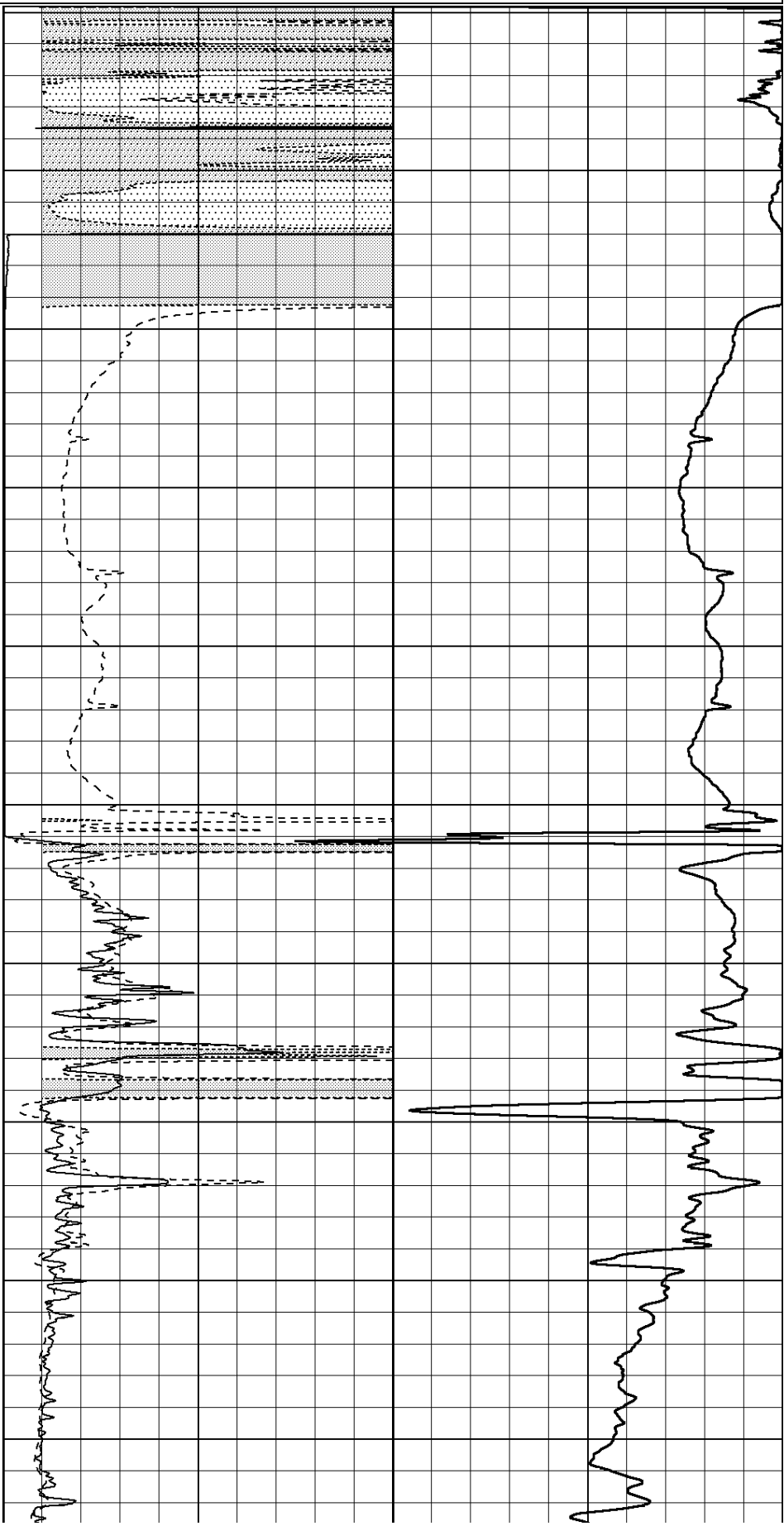
Charted by: Depth in Feet scaled 1:500		
0	Gamma Ray (GAPI)	150
-100	SP (mV)	100

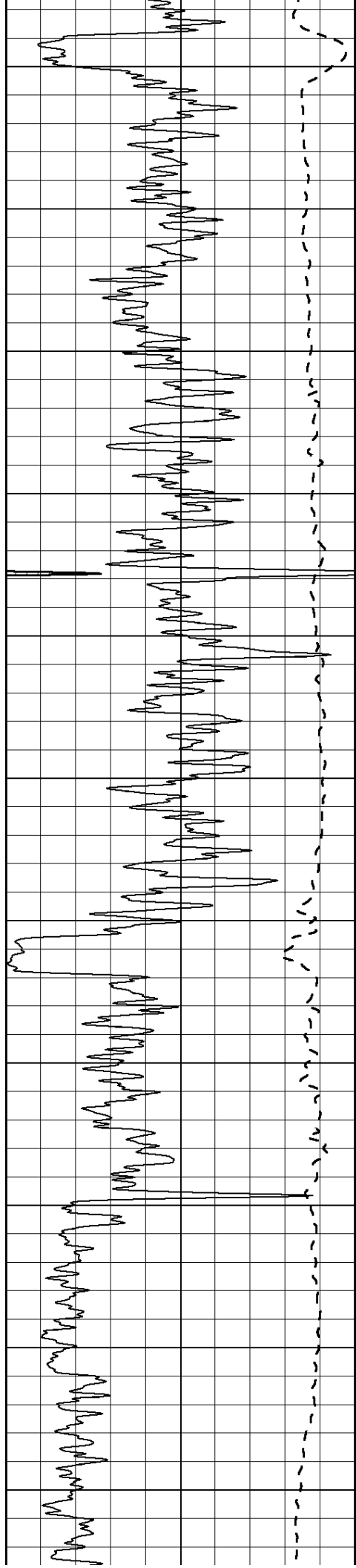
0	RLL3 (Ohm-m)	50
0	RILD (Ohm-m)	50

1000	CILD (mmho/m)	0
50	RILD X10 (Ohm-m)	500
50	RLL3 X10 (Ohm-m)	500



0
50
100
150
200
250
300
350
400
450





500

550

600

650

700

750

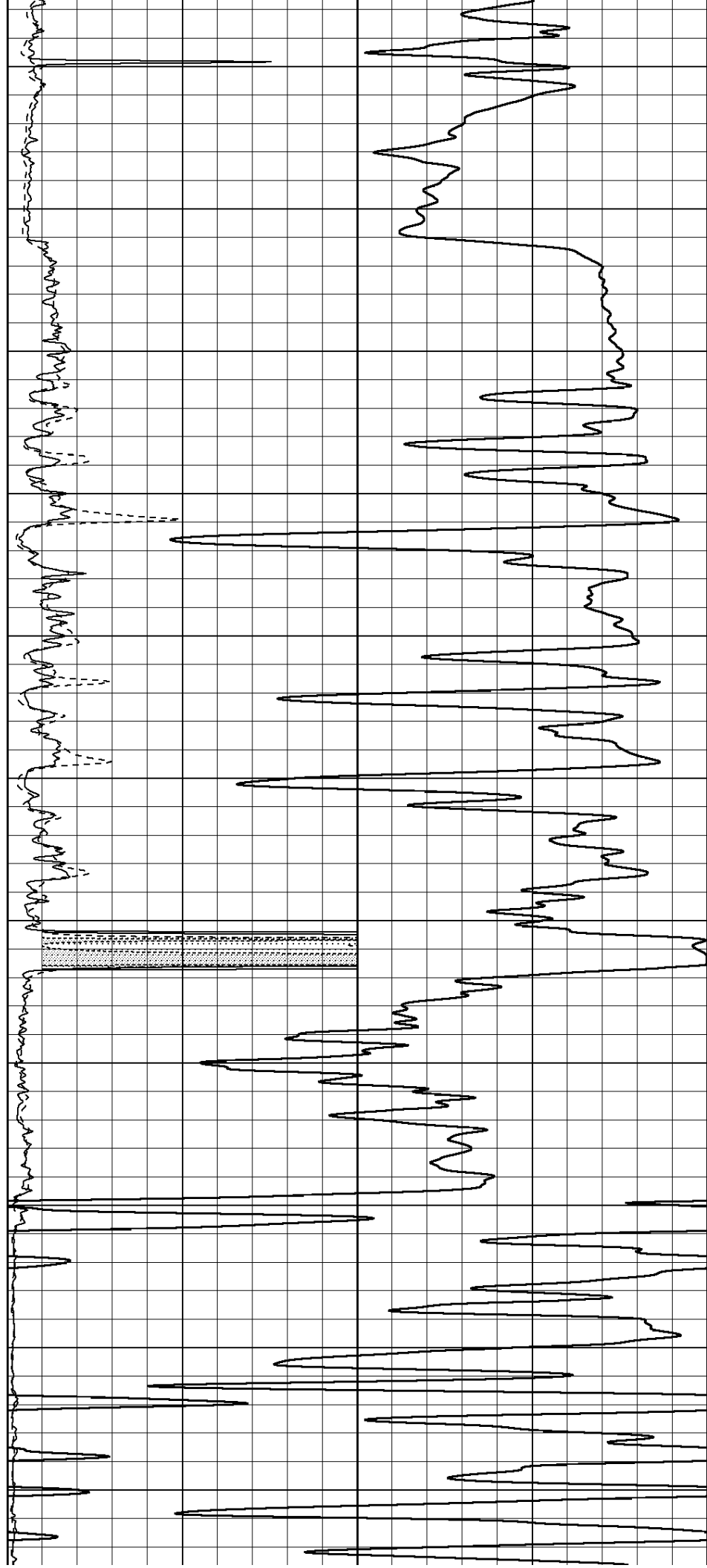
800

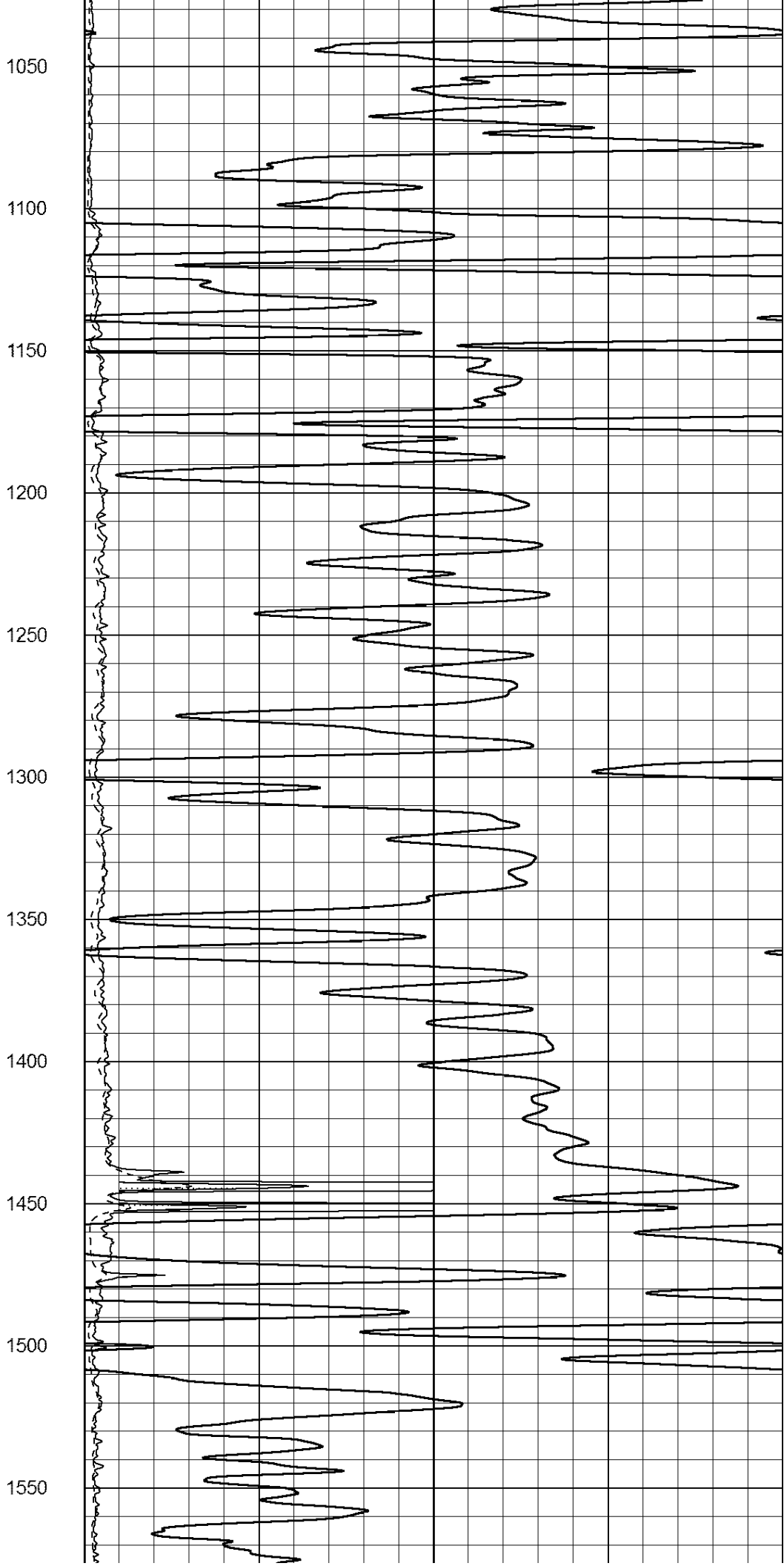
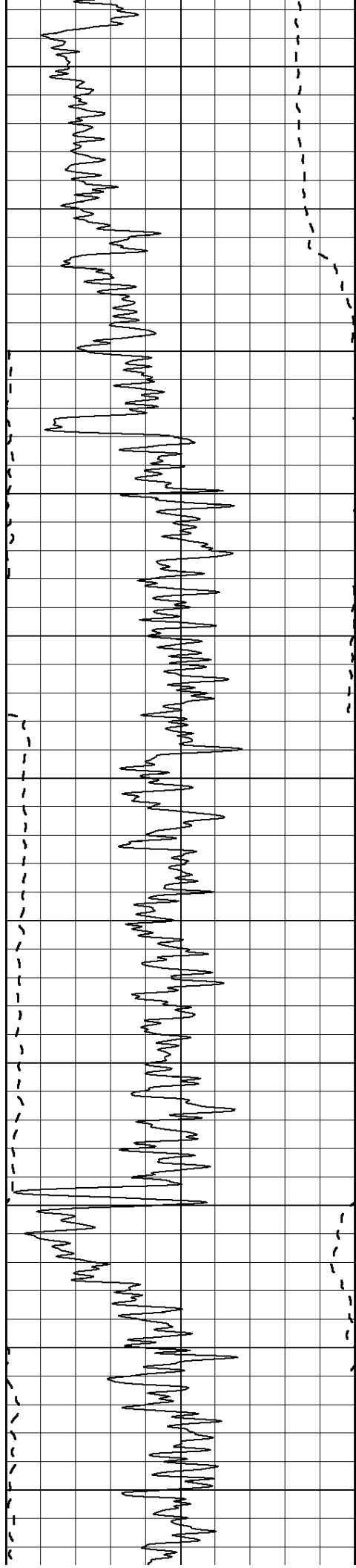
850

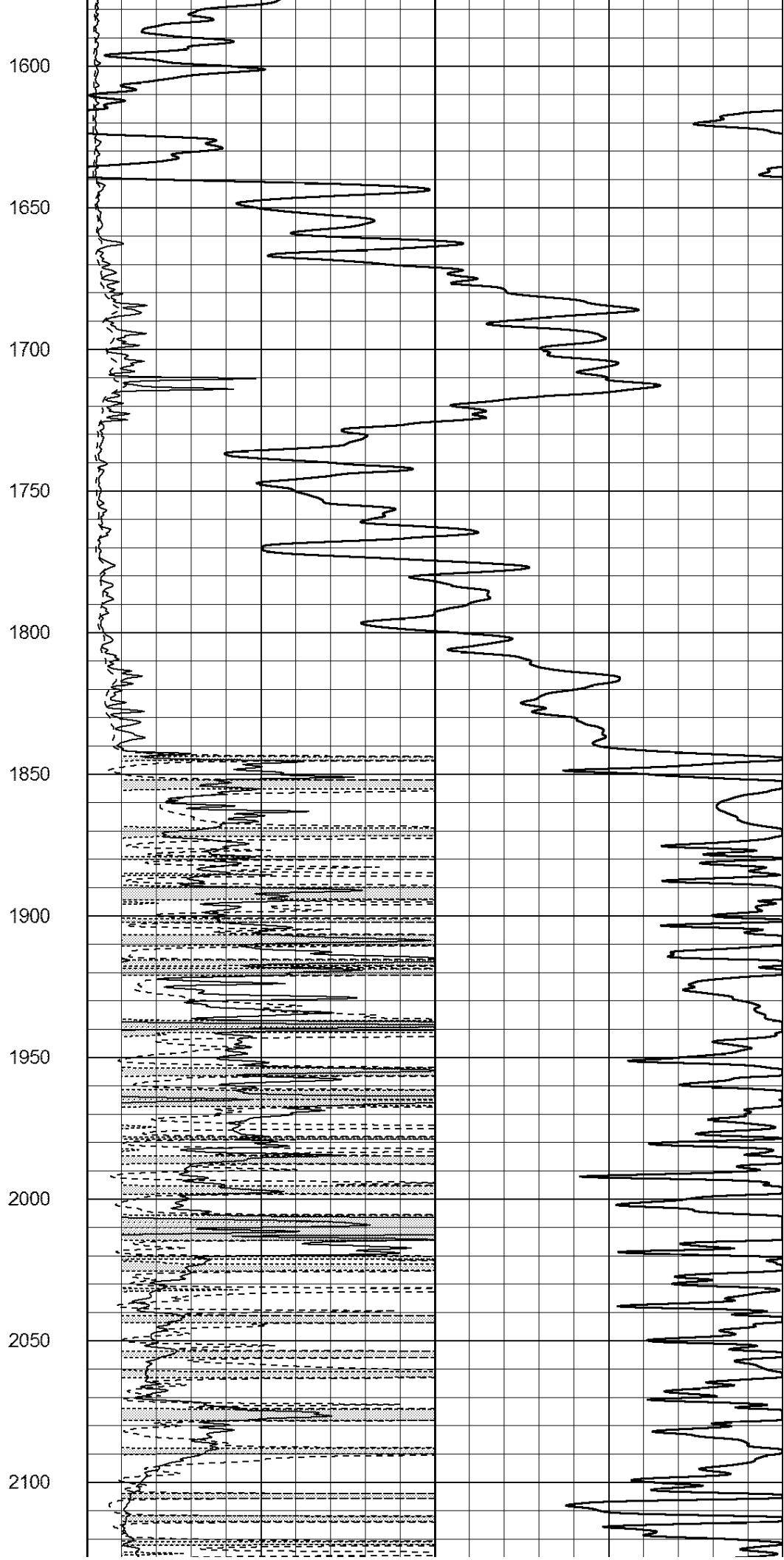
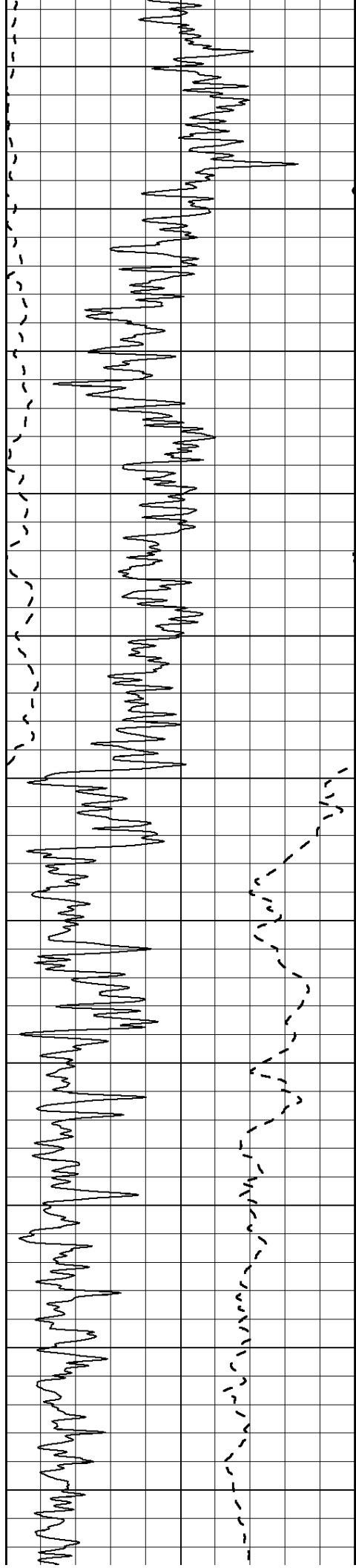
900

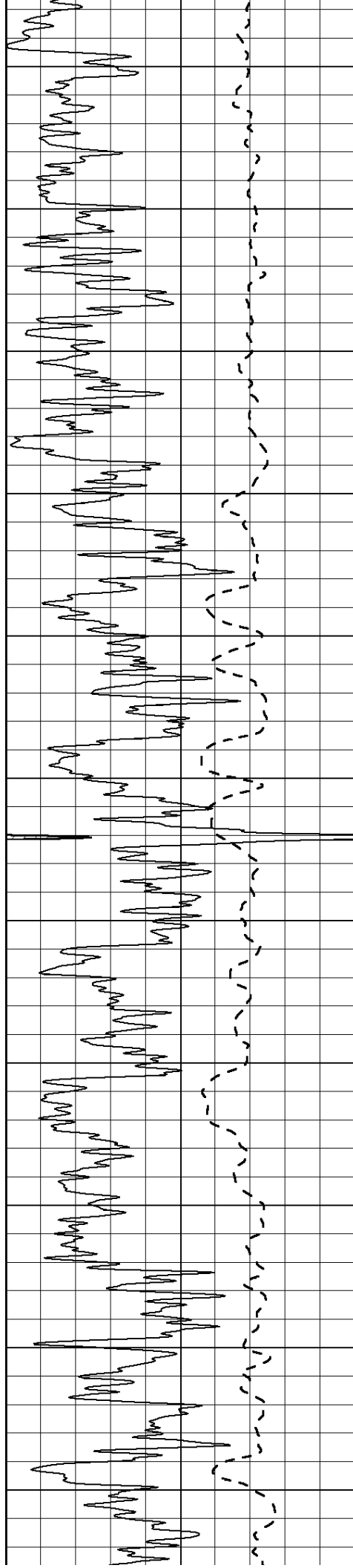
950

1000









2150

2200

2250

2300

2350

2400

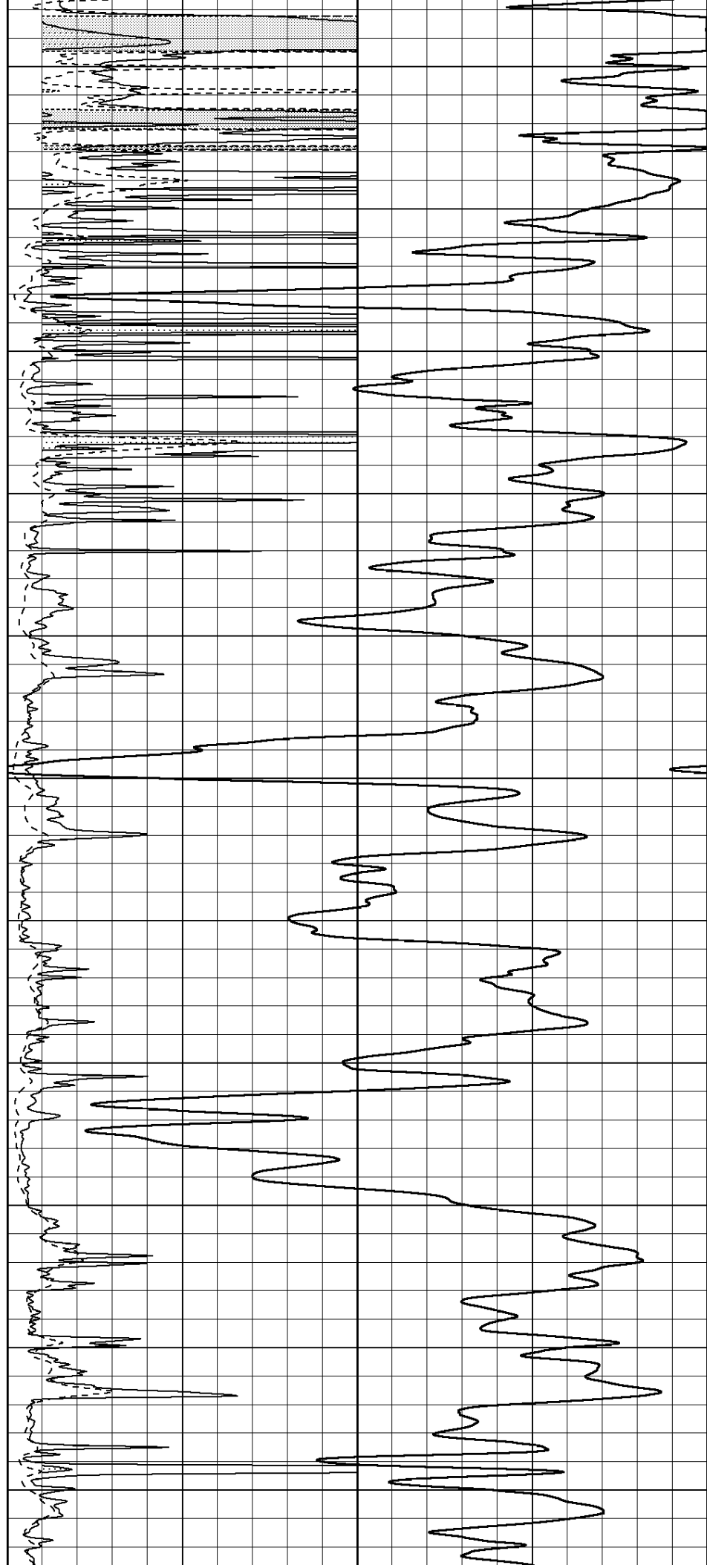
2450

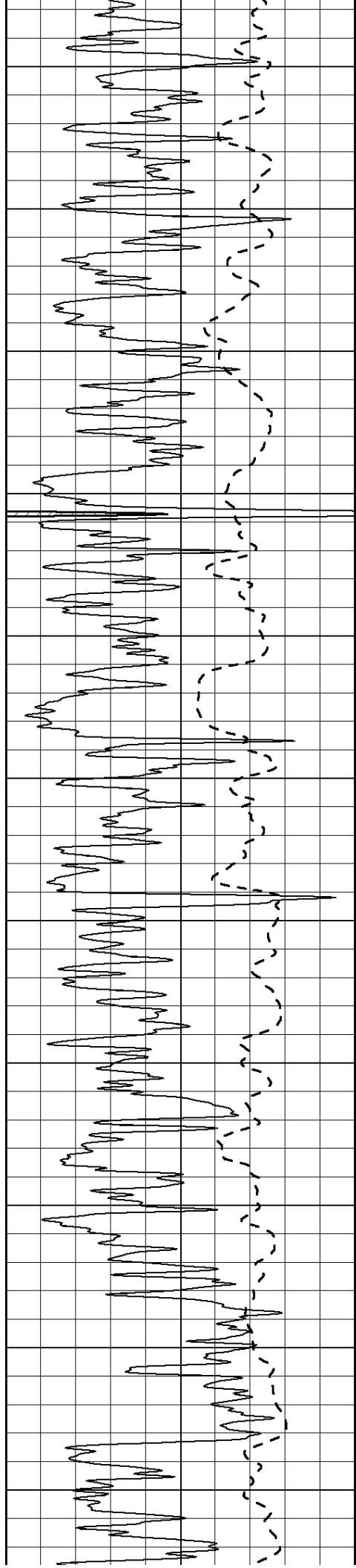
2500

2550

2600

2650





2700

2750

2800

2850

2900

2950

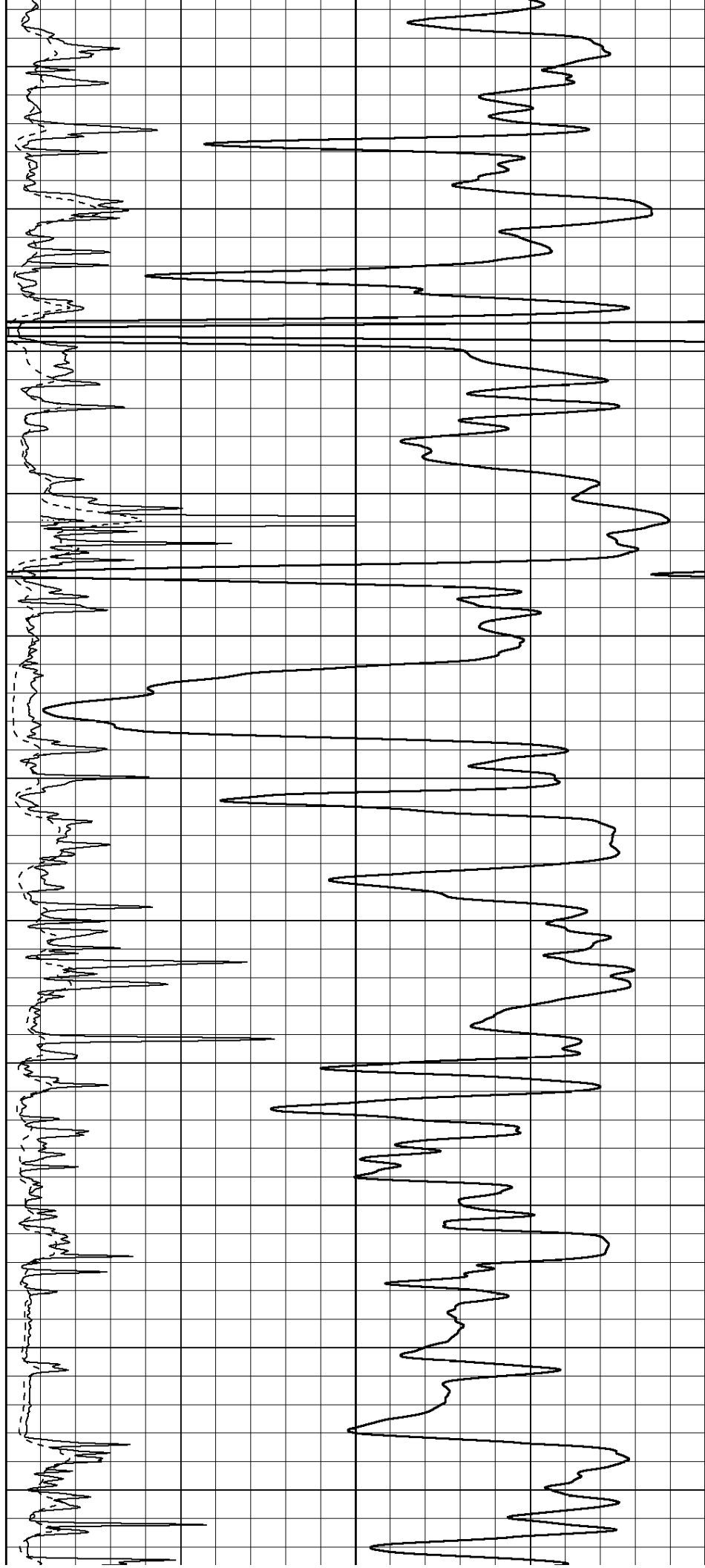
3000

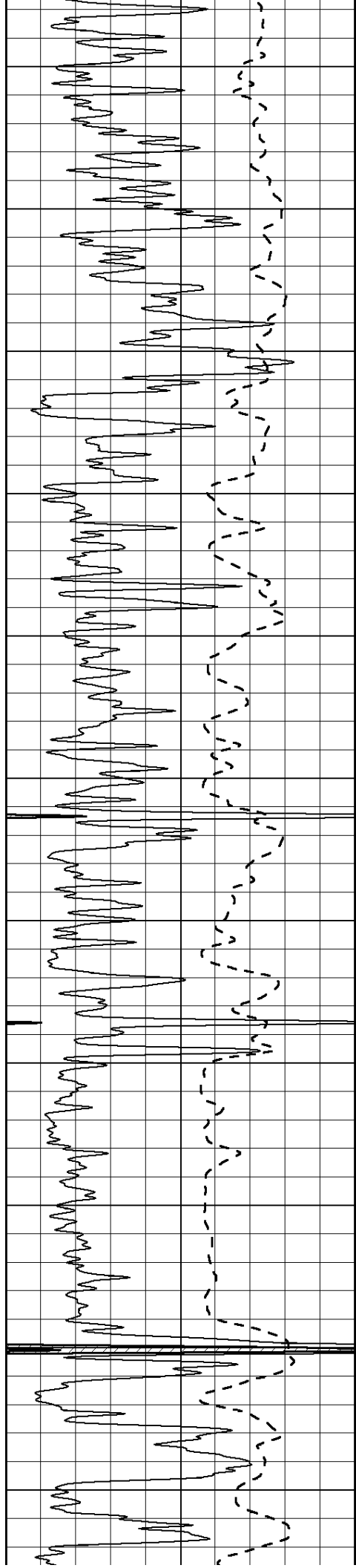
3050

3100

3150

3200





3250

3300

3350

3400

3450

3500

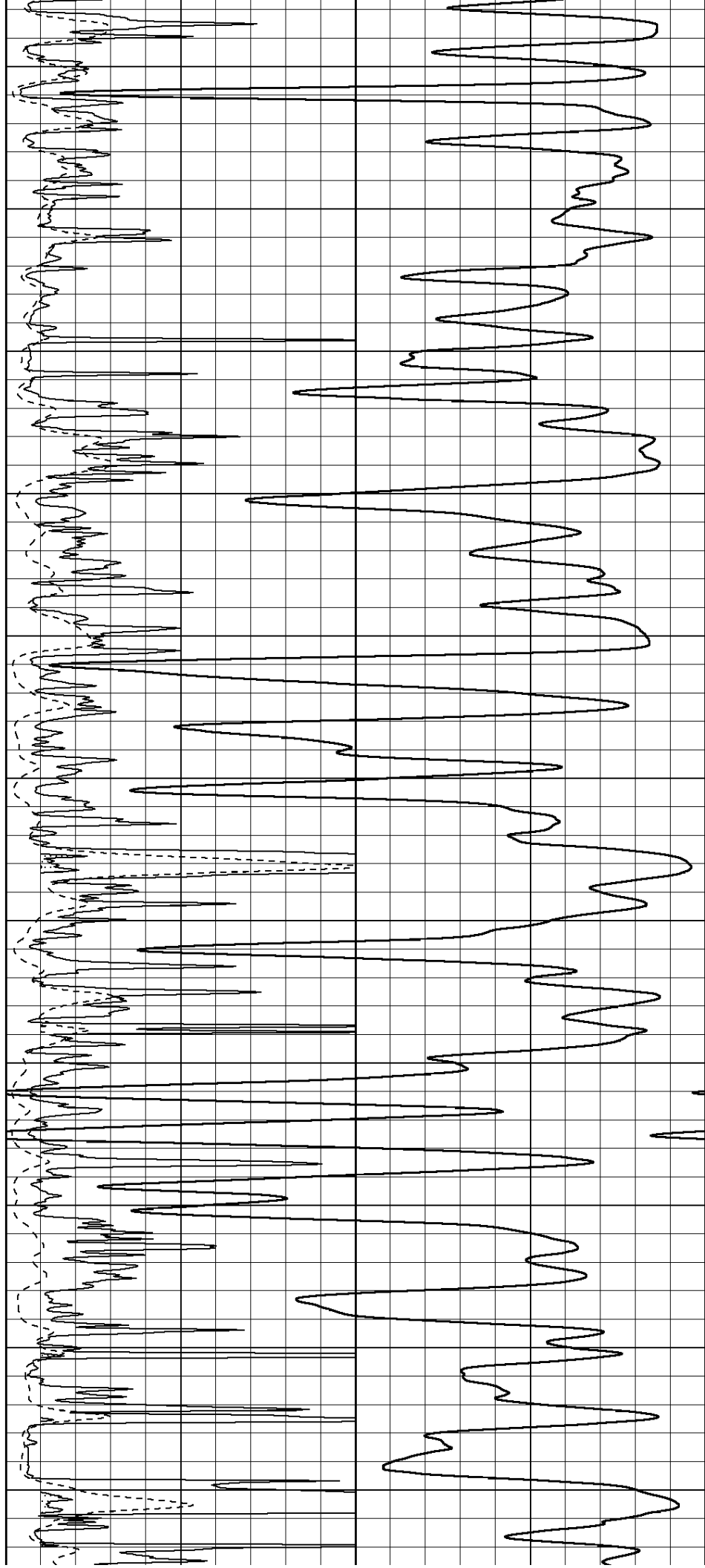
3550

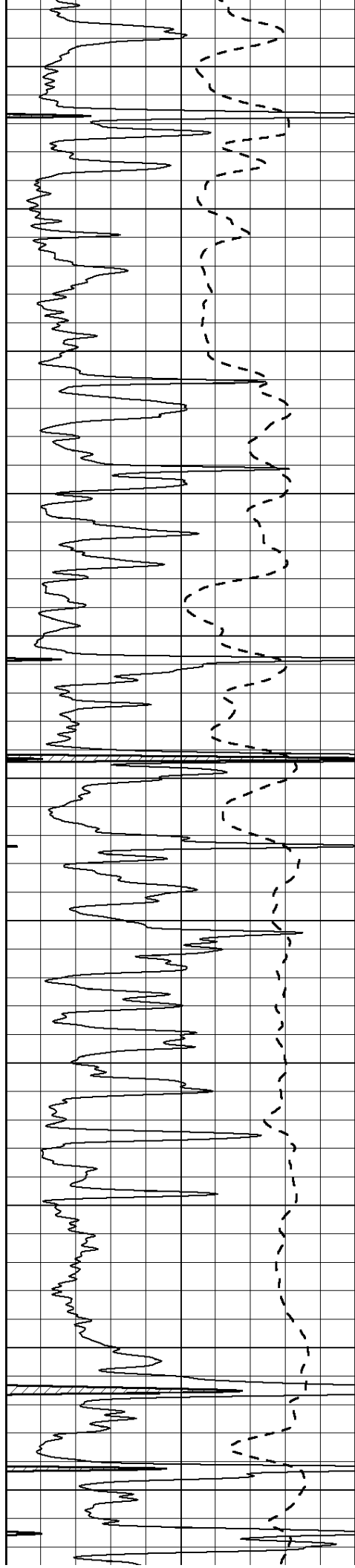
3600

3650

3700

3750





3800

3850

3900

3950

4000

4050

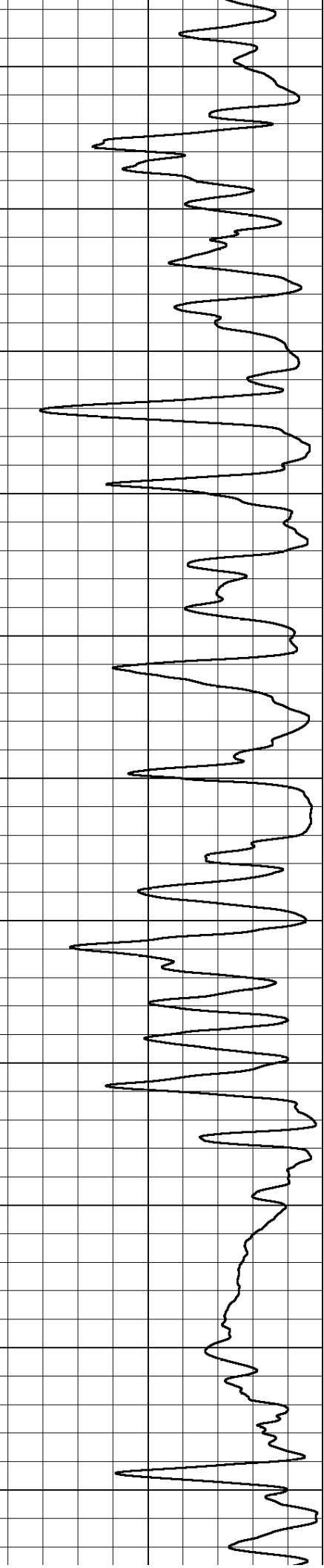
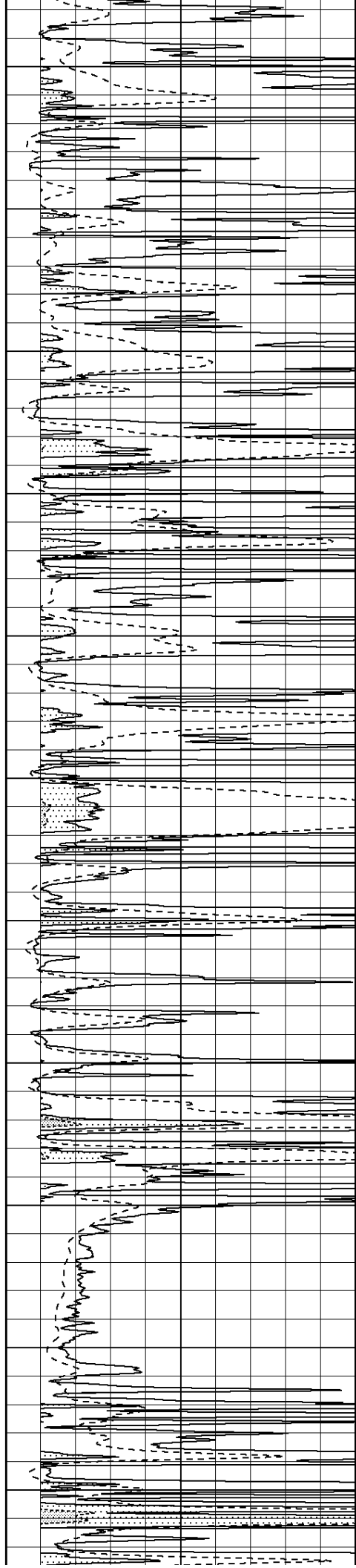
4100

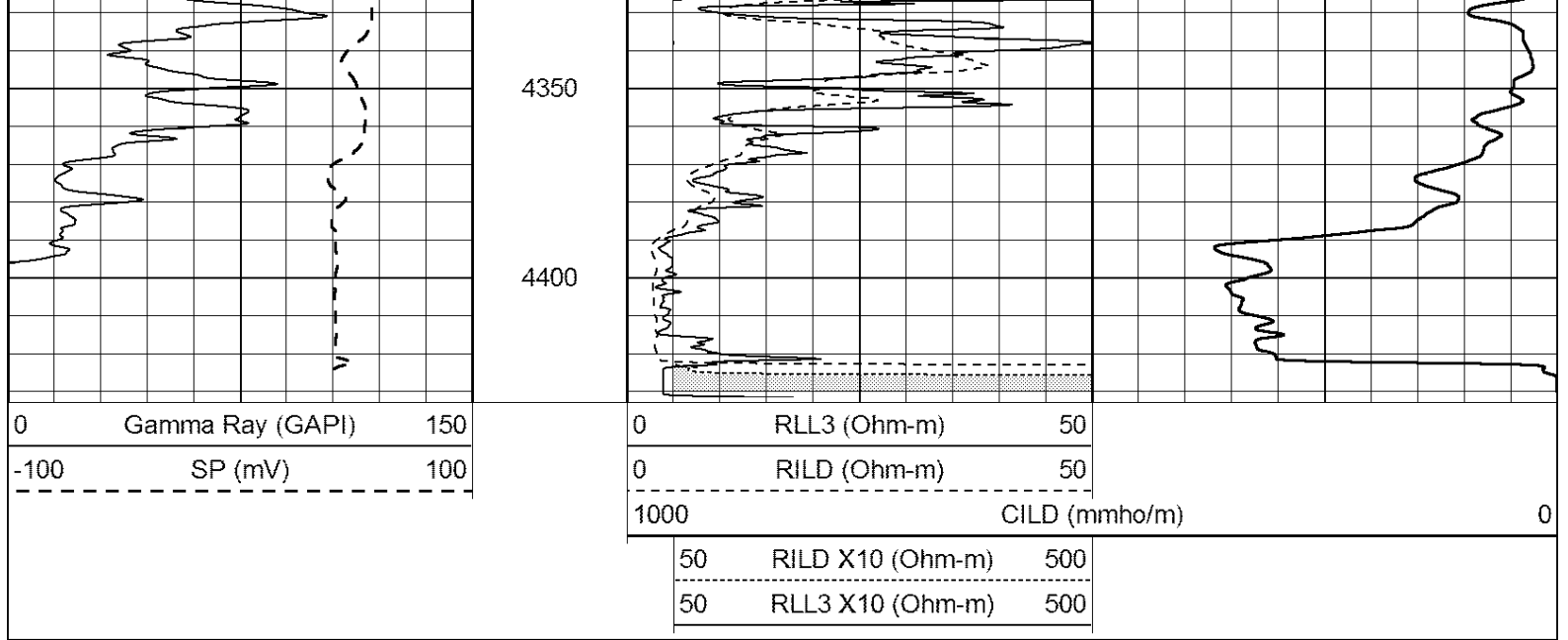
4150

4200

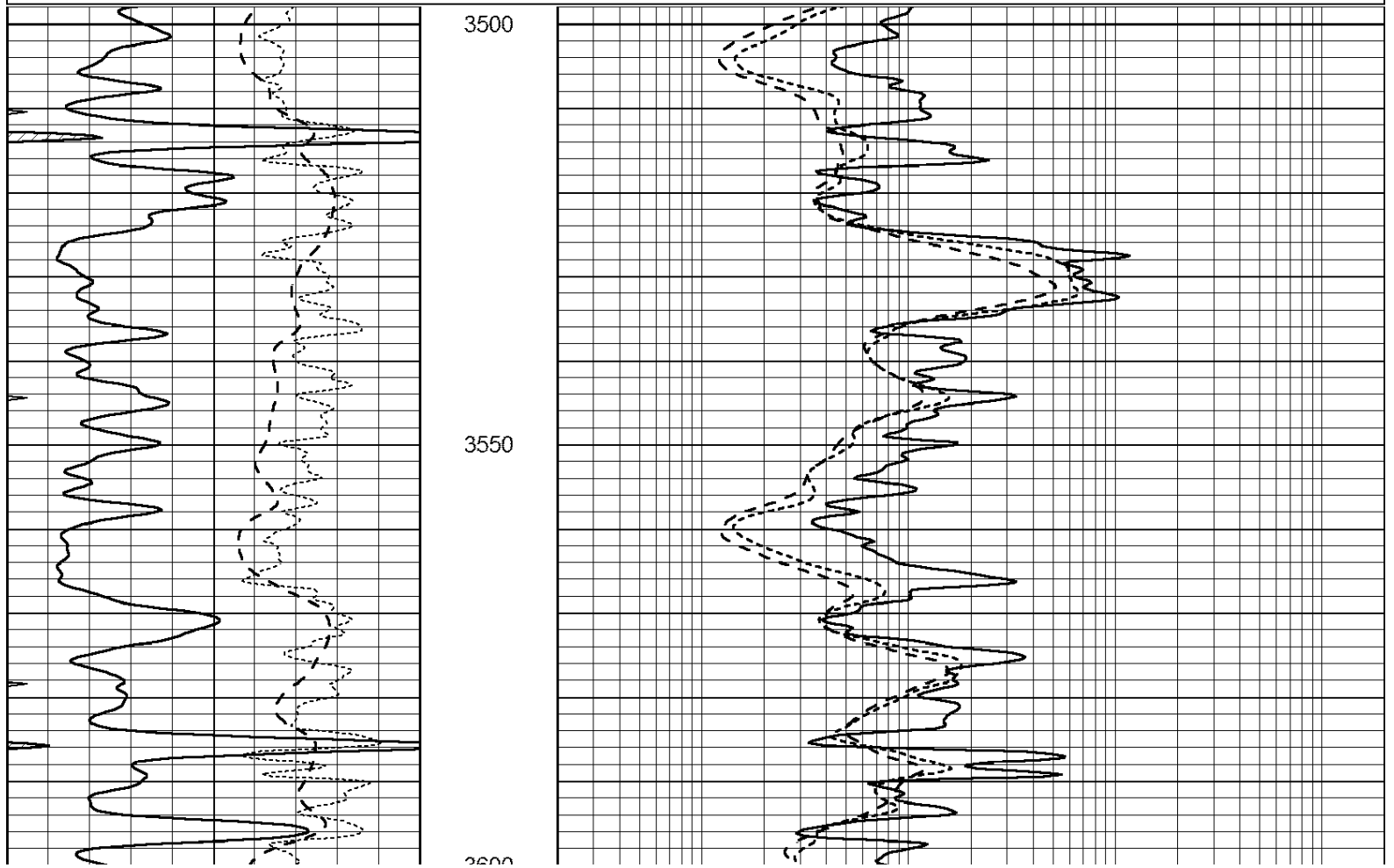
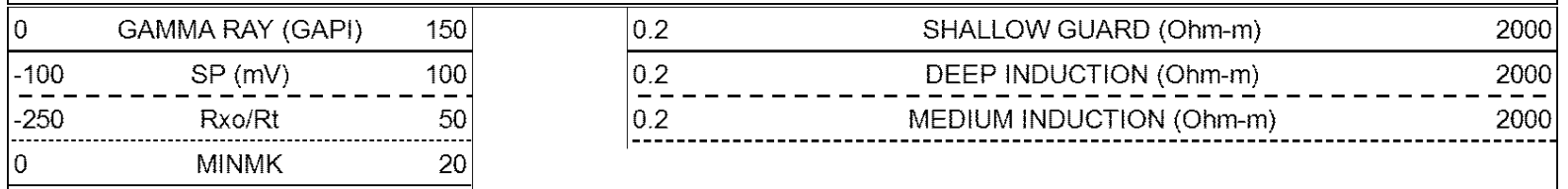
4250

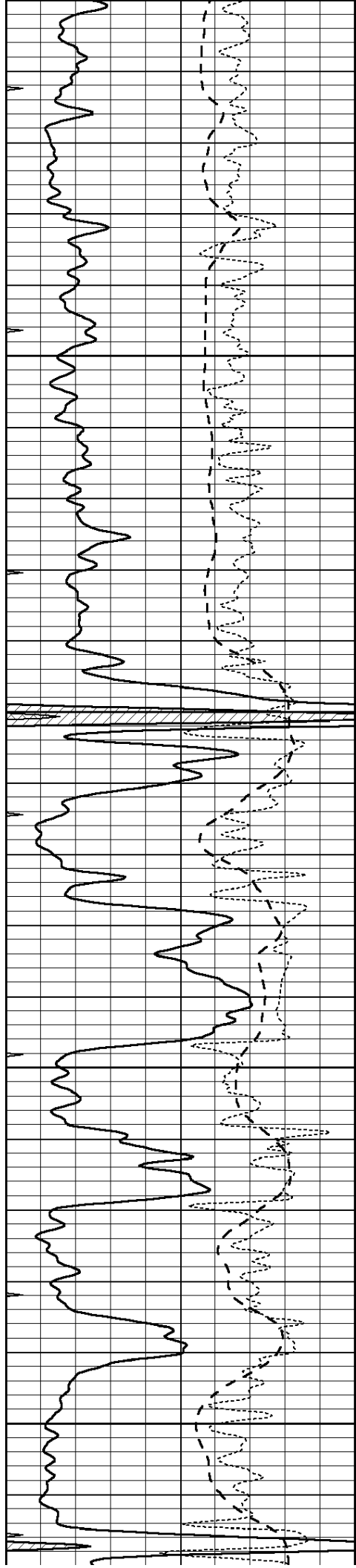
4300





Database File: 26408ddn.db
 Dataset Pathname: pass3.1
 Presentation Format: _dil
 Dataset Creation: Thu Nov 20 13:49:41 2014 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240





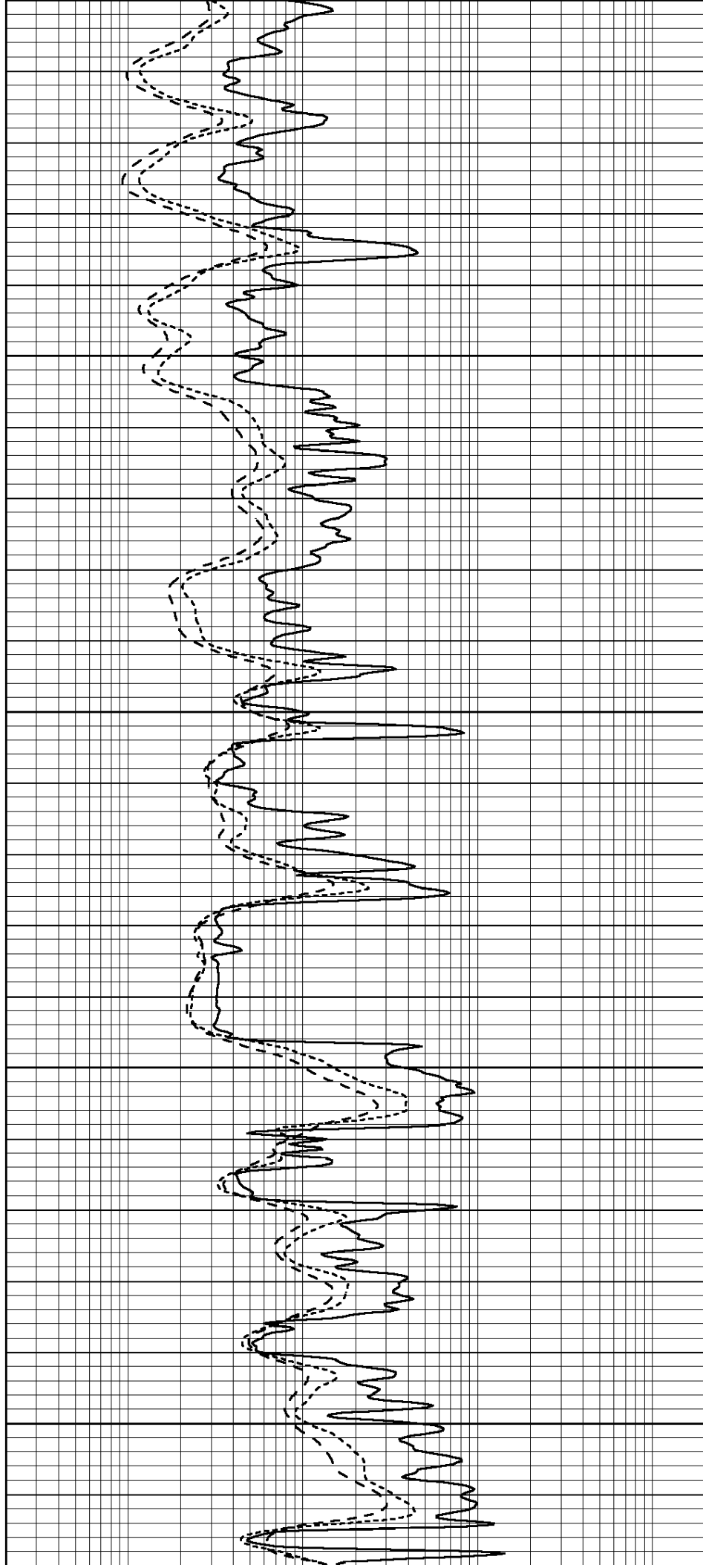
3600

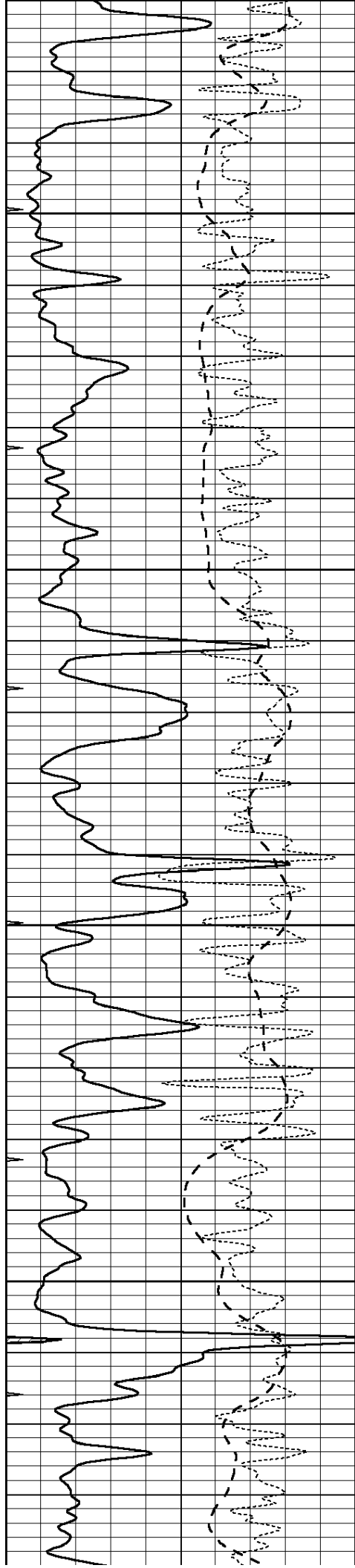
3650

3700

3750

3800



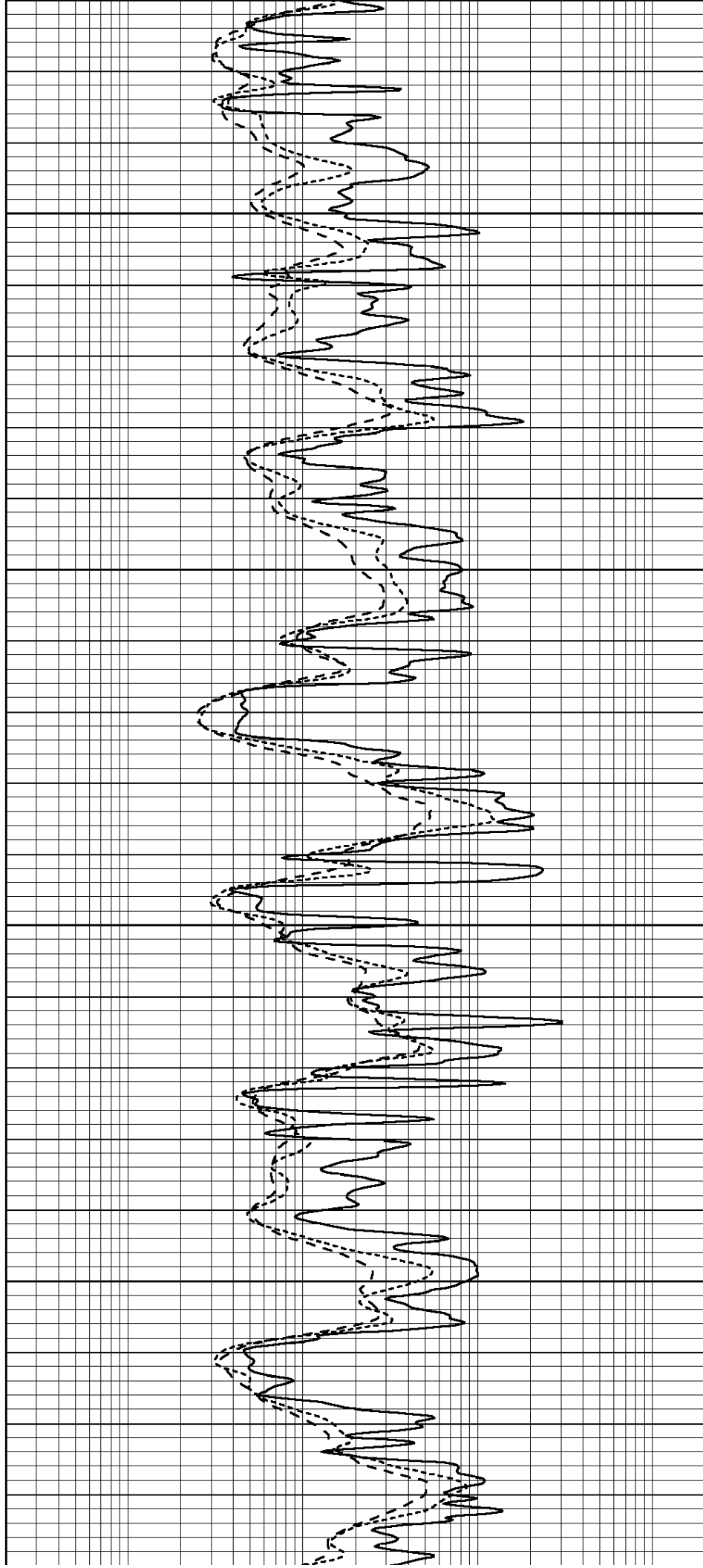


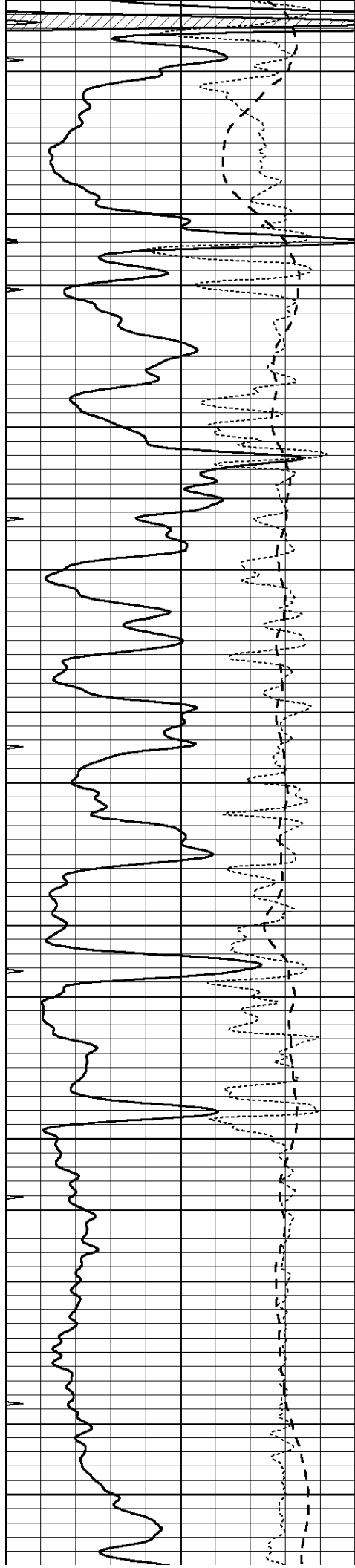
3850

3900

3950

4000





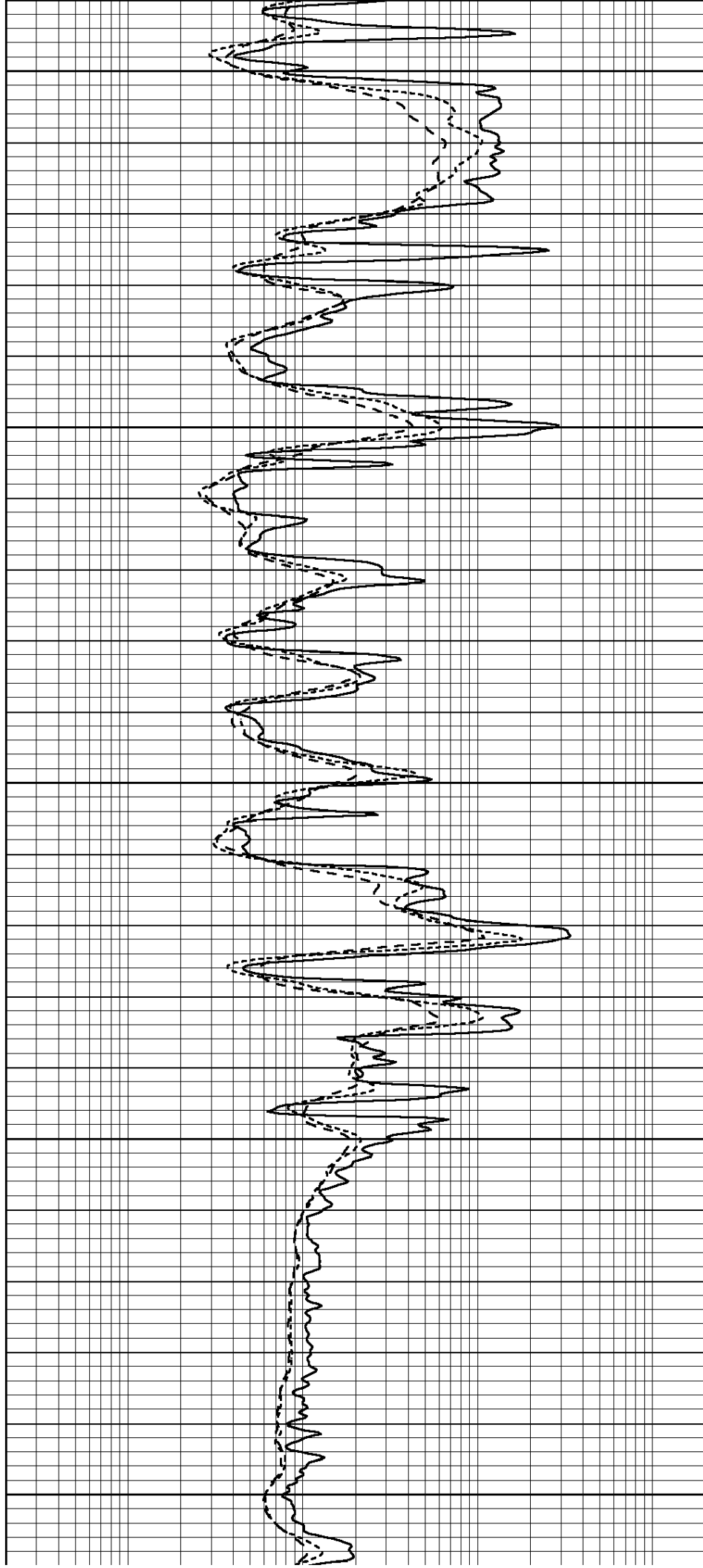
4050

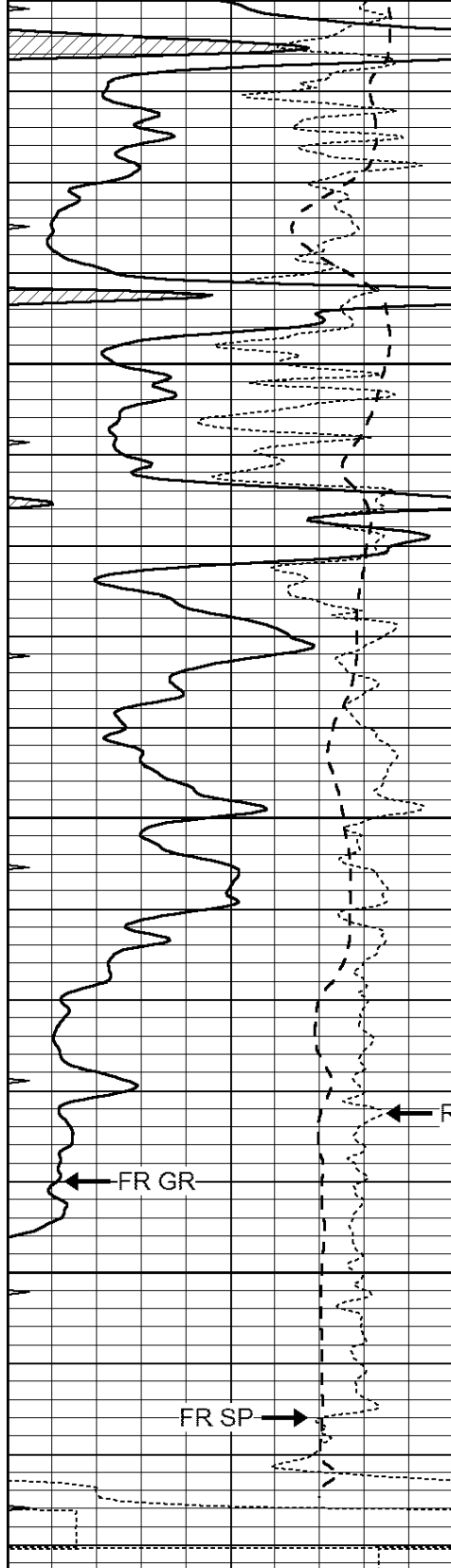
4100

4150

4200

4250





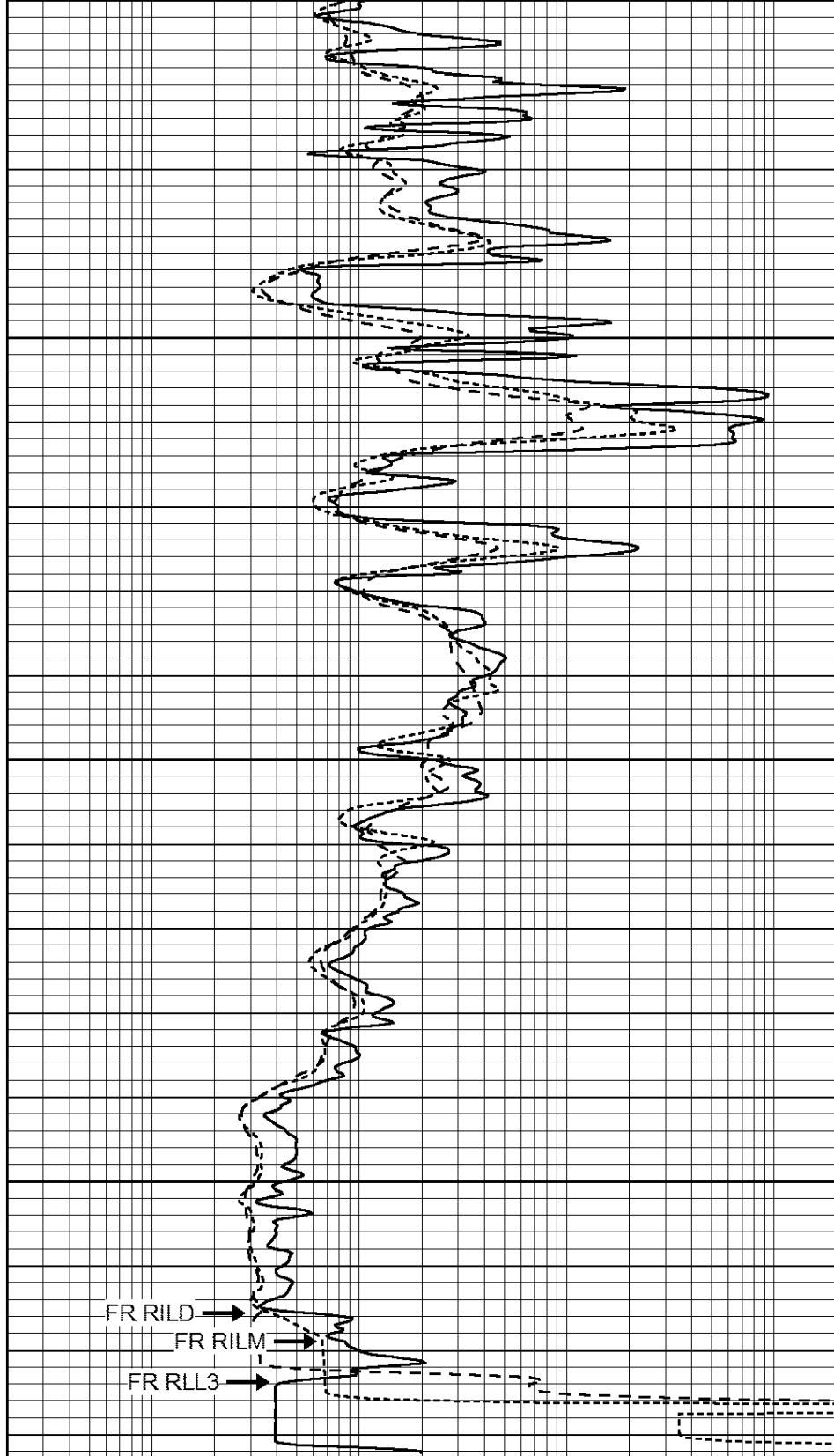
4300

4350

4400

LTD 4426

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20



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

Database File:

26408ddn.db

Dataset Pathname:

pass2.1

Presentation Format:

_dil

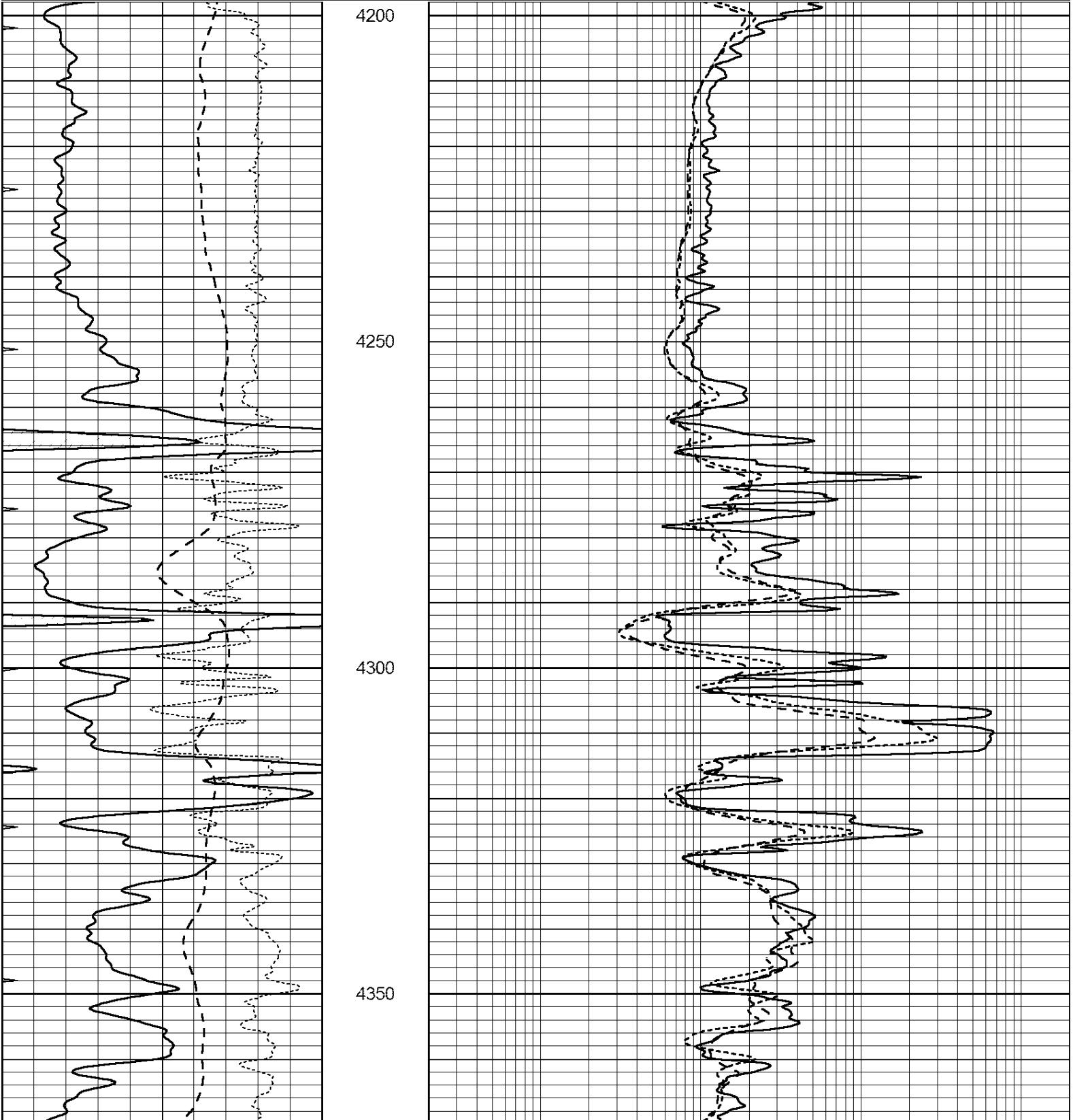
Dataset Creation:

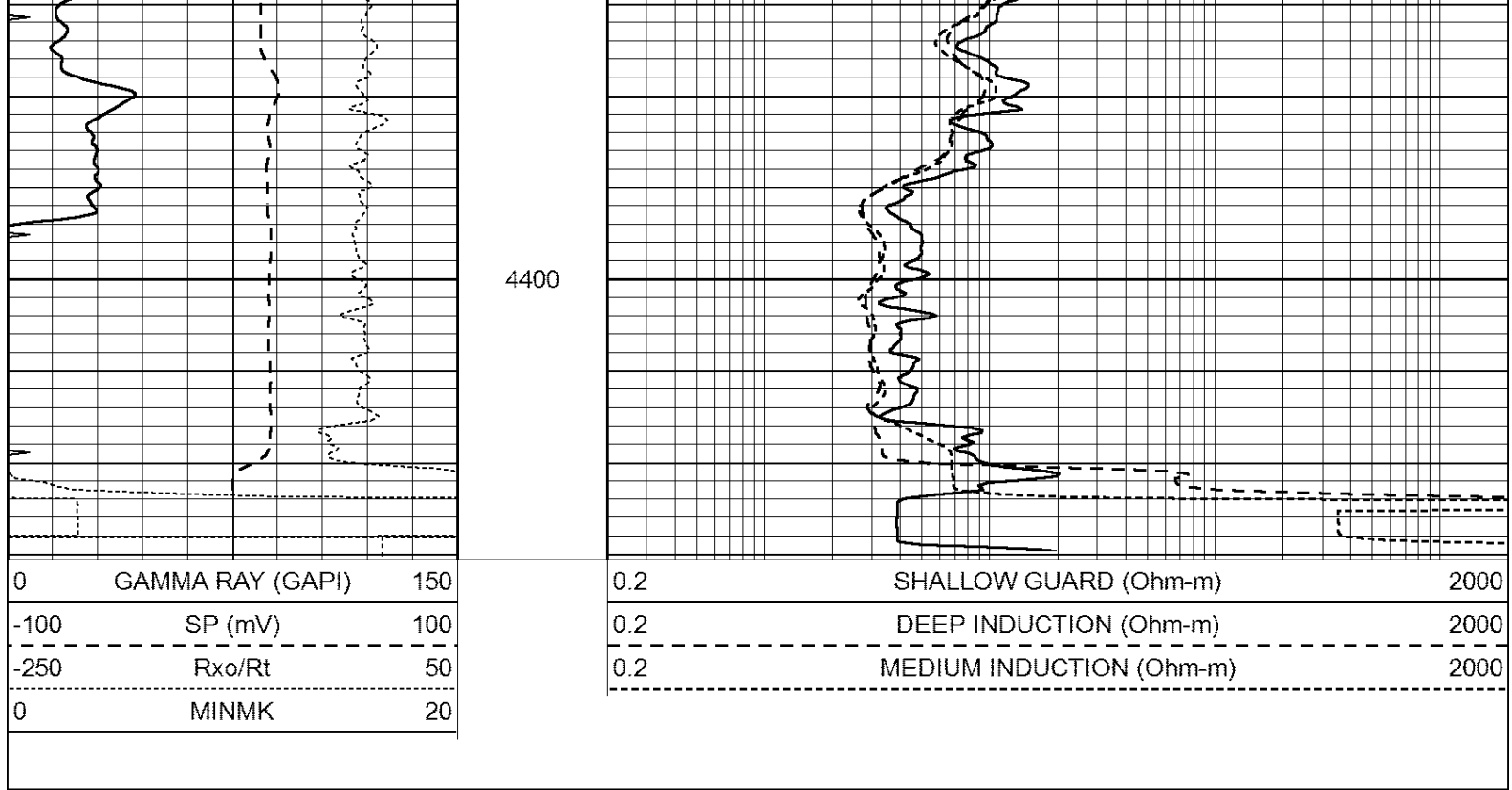
Thu Nov 20 13:14:14 2014 by Calc Open-Cased 090629

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	DEEP INDUCTION (Ohm-m)	2000
-250	Rxo/Rt	50	0.2	MEDIUM INDUCTION (Ohm-m)	2000
0	MINMK	20			





Calibration Report									
Database File:		26408ddn.db							
Dataset Pathname:		pass3.2							
Dataset Creation:		Thu Nov 20 14:28:43 2014 by Calc Open-Cased 090629							
Dual Induction Calibration Report									
Serial-Model:				PROBE8-DILG					
Surface Cal Performed:				Sun Aug 17 08:09:53 2014					
Downhole Cal Performed:				Mon Jul 28 11:08:27 2008					
After Survey Verification Performed:				Mon Jul 28 11:08:27 2008					
Surface Calibration									
Readings				References			Results		
Loop:	Air	Loop		Air	Loop		m	b	
Deep	0.015	0.648	V	0.000	400.000	mmho/m	620.000	-2.000	
Medium	0.029	0.796	V	0.000	464.000	mmho/m	590.000	-16.000	
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		0.000	Ohm-m		
		1.000	mmho-m		1.000	mmho-m		
Compensated Density Calibration Report								
Serial-Model:				GEAR4-GEARHART				
Source / Verifier:				143 / 143				
Master Calibration Performed:				Wed Sep 18 03:03:09 2013				
Before Survey Verification Performed:								
After Survey Verification Performed:								
Master Calibration								
	Density			Far Detector		Near Detector		
Magnesium	1.710	g/cc		1075.98		532.39		cps
Aluminum	2.560	g/cc		286.51		422.88		cps
Spine Angle = 80.13				Density/Spine Ratio = 0.633				
	Size			Reading				
Small Ring	8.00	in		3.21		V		
Large Ring	14.00	in		5.46		V		
Before Survey Verification								
	Target			Measured				
		g/cc				g/cc		
		g/cc				g/cc		
		g/cc				g/cc		
After Survey Verification								
	Target			Measured				
		g/cc				g/cc		
		g/cc				g/cc		
		g/cc				g/cc		
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		
PRE-SURVEY VERIFICATION								
	Detector	Readings		Measured		Target		
1)	Short Space		cps					
	Long Space		cps		pu	pu		
2)	Short Space		cps					
	Long Space		cps		pu			
3)	Short Space		cps					
	Long Space		cps		pu			

POST-SURVEY VERIFICATION

	Detector	Readings	Measured	Target
1)	Short Space Long Space	cps cps	pu	pu
2)	Short Space Long Space	cps cps	pu	pu
3)	Short Space Long Space	cps cps	pu	pu

Gamma Ray Calibration Report

Serial Number:	GR6
Tool Model:	OPEN
Performed:	Sun Aug 17 15:23:09 2014
Calibrator Value:	150.0 GAPI
Background Reading:	0.0 cps
Calibrator Reading:	276.0 cps
Sensitivity:	0.7000 GAPI/cps