



SUPERIOR
Hays,
Kansas

DUAL INDUCTION LOG

Company VAL ENERGY, INC.
Well STEVE MICHEL #3-10
Field ROUNDUP SOUTH
County BARBER
State KANSAS

Company VAL ENERGY, INC.
Well STEVE MICHEL #3-10
Field ROUNDUP SOUTH
County BARBER State KANSAS

Location: API # : 15-007-23502-0000
2145' FNL & 330' FWL
N/2 - SW - SW - NW
SEC 10 TWP 34S RGE 11W
Permanent Datum GROUND LEVEL Elevation 1343
Log Measured From KELLY BUSHING 11' A.G.L.
Drilling Measured From KELLY BUSHING
Other Services
CDL/CNL
MEL
Elevation
K.B. 1364
D.F. 1362
G.L. 1343

Date	2/21/10		
Run Number	CNE		
Depth Driller	4699		
Depth Logger	4698		
Bottom Logged Interval	4696		
Top Log Interval	00		
Casing Driller	8 5/8"@207'		
Casing Logger	208		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 4,000 PPM	
Density / Viscosity	8.9/60		
pH / Fluid Loss	10.5/8.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.850@62F		
Rmf @ Meas. Temp	.638@62F		
Rmc @ Meas. Temp	1.02@62F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.432@122F		
Time Circulation Stopped	3 HOURS		
Time Logger on Bottom	2:00 P.M.		
Maximum Recorded Temperature	122F		
Equipment Number	0836		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	STEVE VAN BUSKIRK		

<<< 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 HAYS, KANSAS (785) 628-6395
DIRECTIONS

MEDICINE LODGE, KS. (JUNCTION OF HWY 160 & 281) 13S. ON HWY 281 TO "SCOTT CANYON RD.",
3E. PAST (DEAD END) "NORSTAR RD.", CURVE LEFT TWORDS FARM THEN RIGHT@ PUMPING UNI



SUPERIOR
Hays,
Kansas

MAIN SECTION

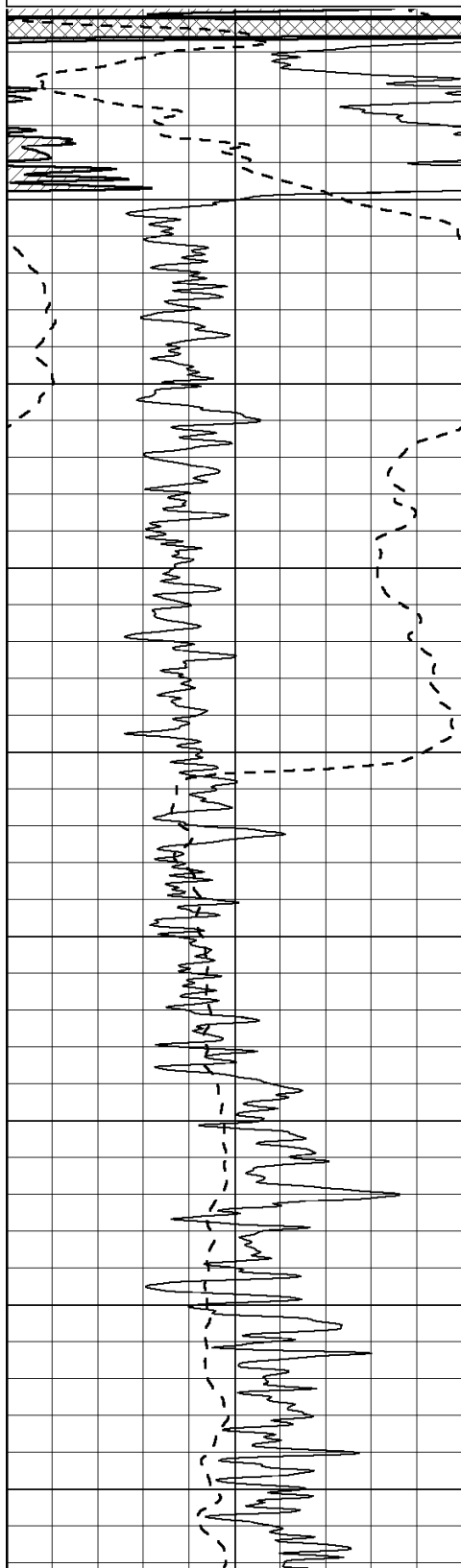
Database File: 004722ddn.db
Dataset Pathname: pass3.4
Presentation Format: dil2
Dataset Creation: Sun Feb 21 15:39:12 2010 by Calc Open-Cased 060407
Charted by: Depth in Feet scaled 1:600

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

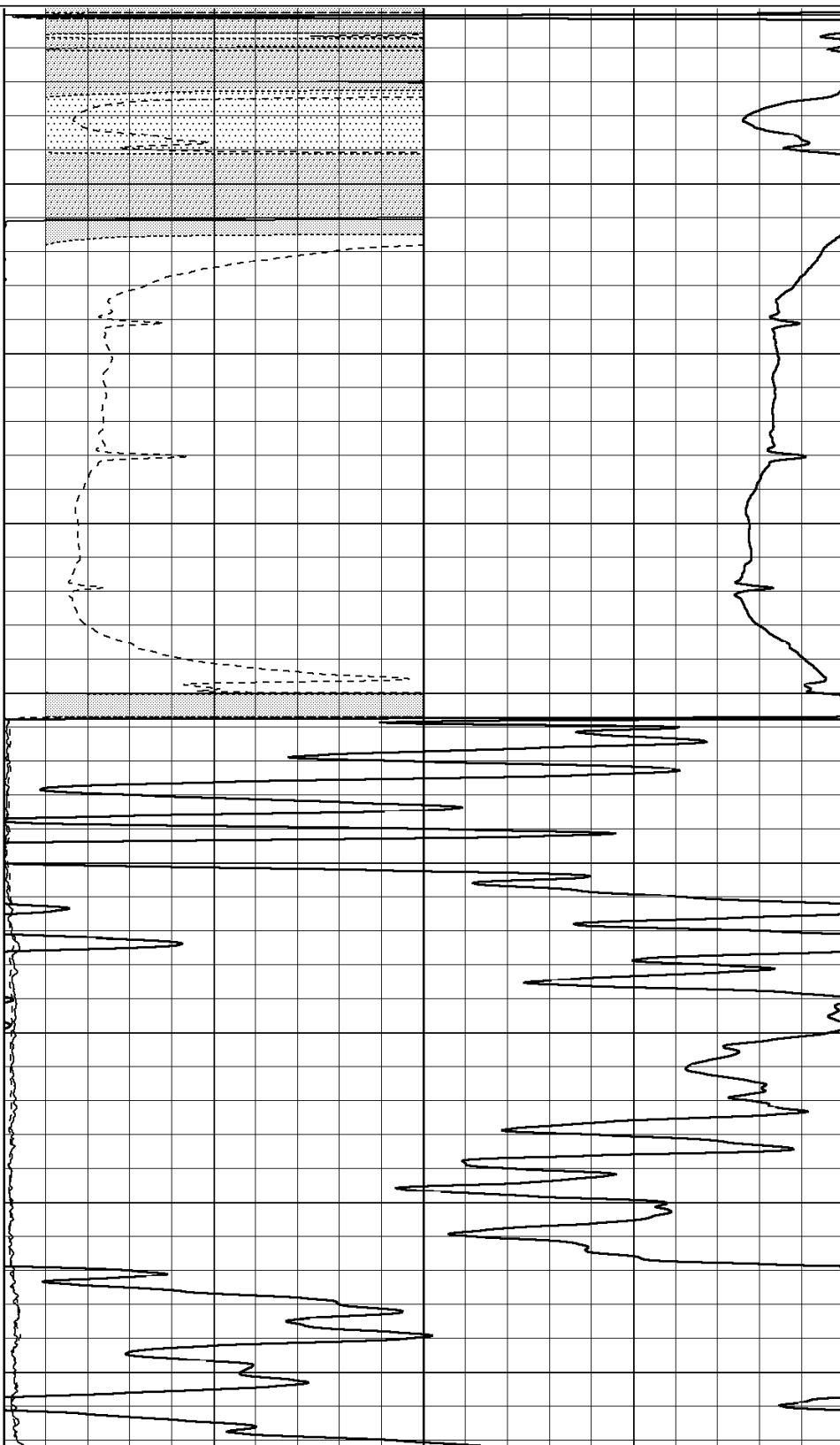
0	RLL3 (Ohm-m)	50
0	RILD (Ohm-m)	50

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

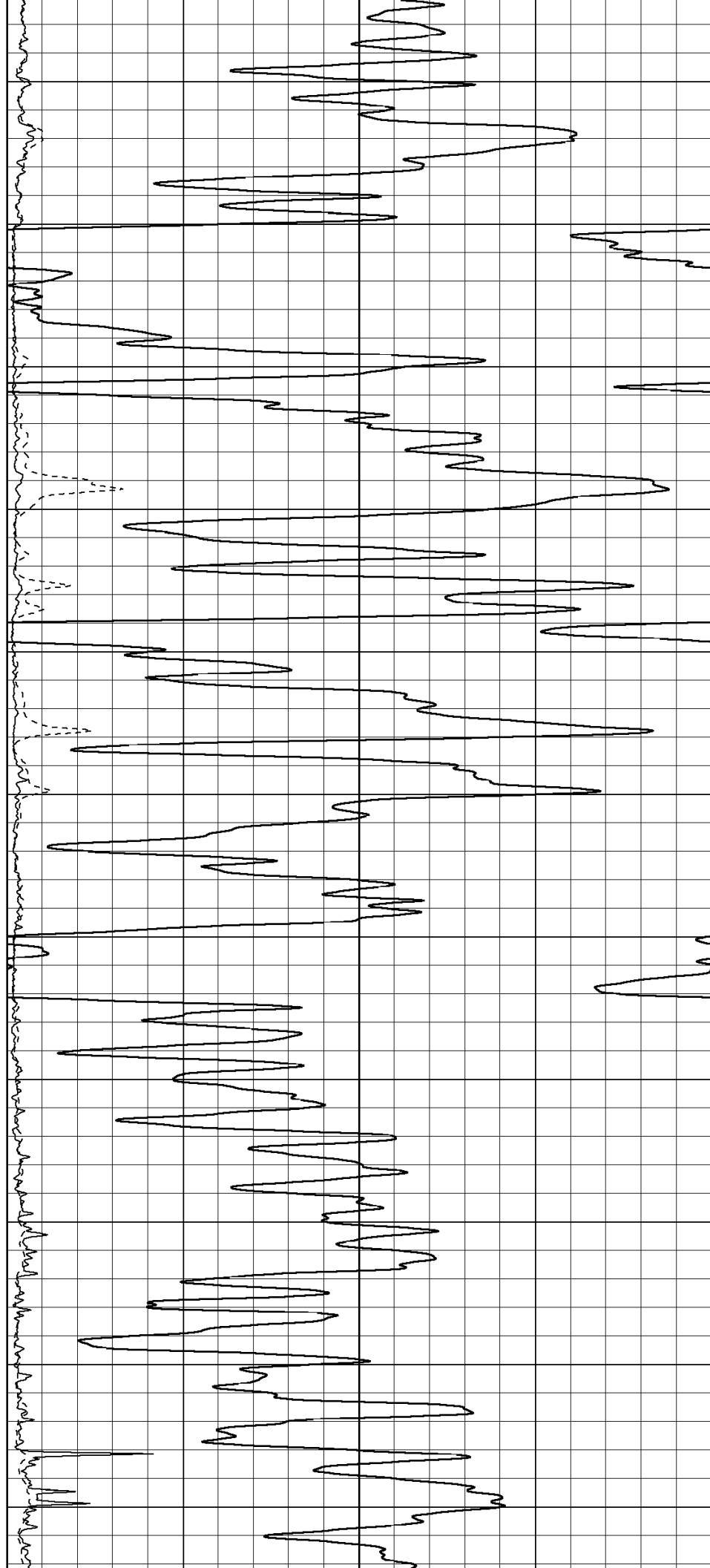
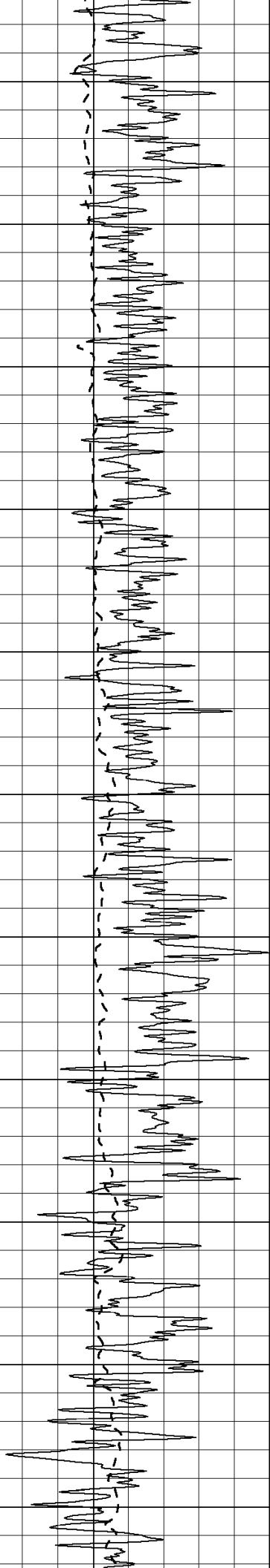
750

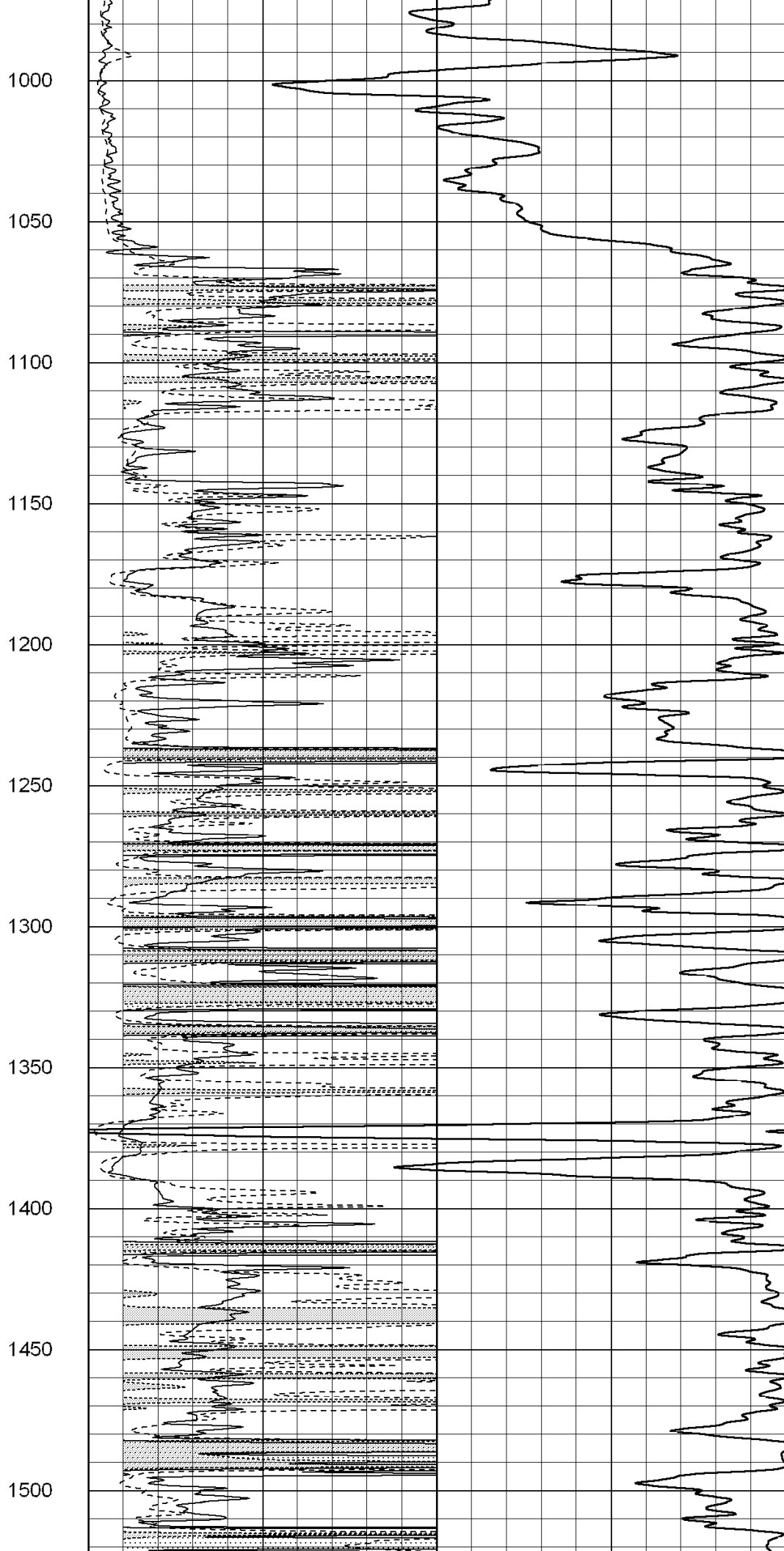
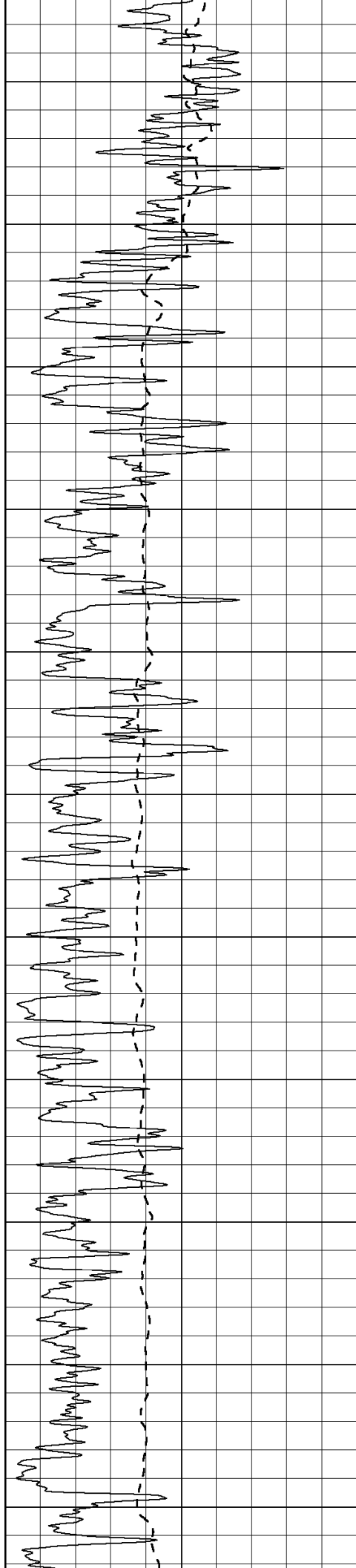
800

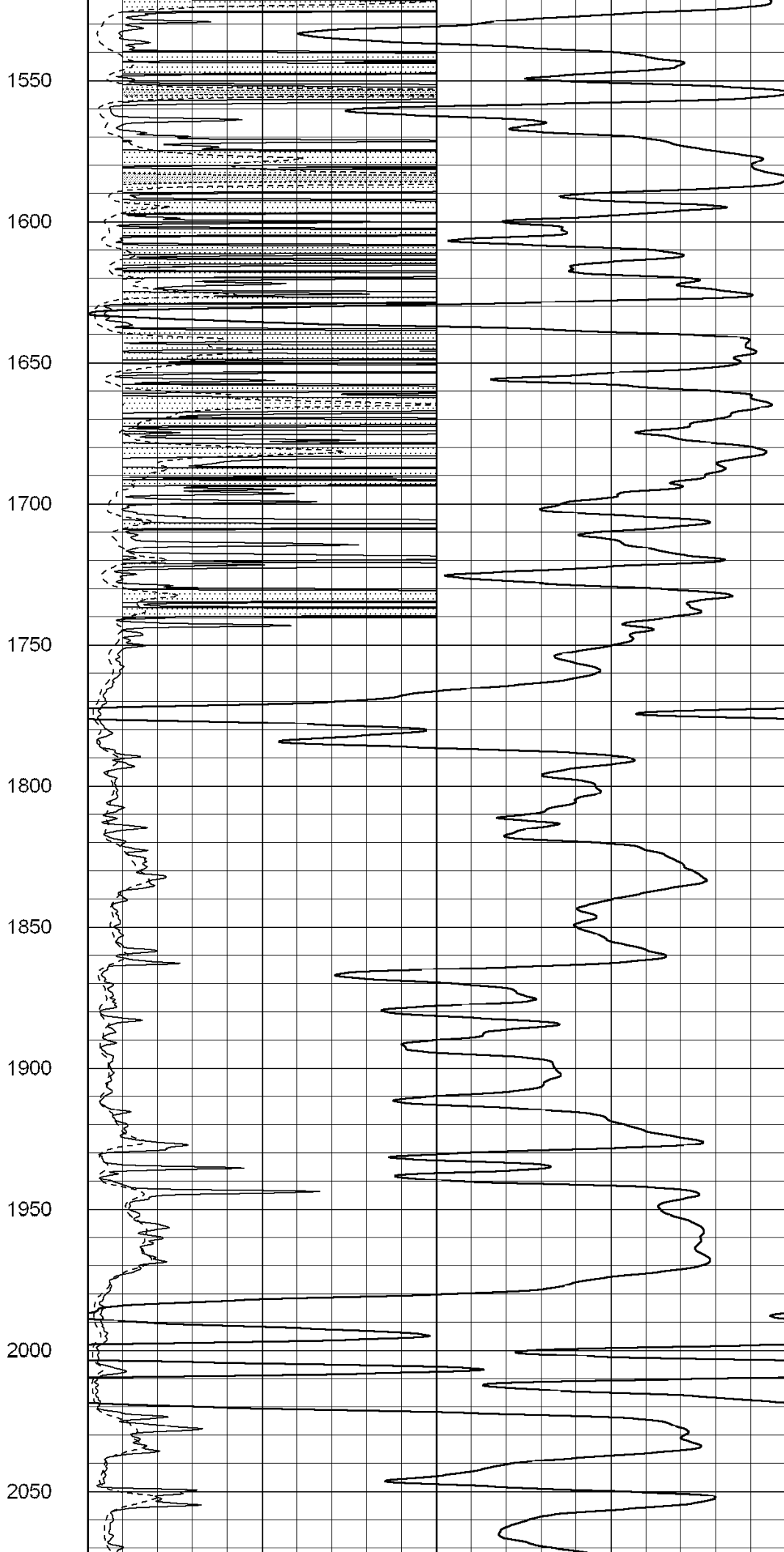
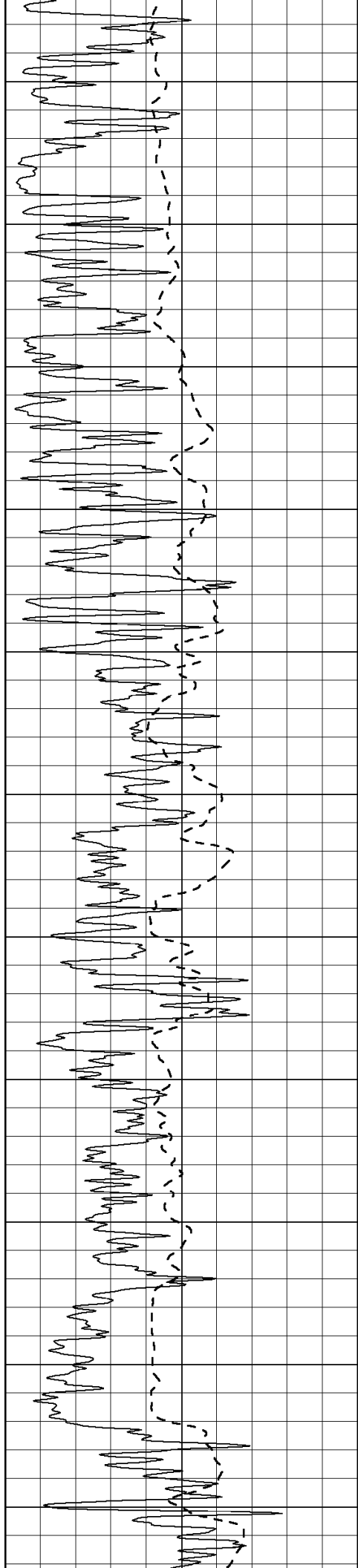
850

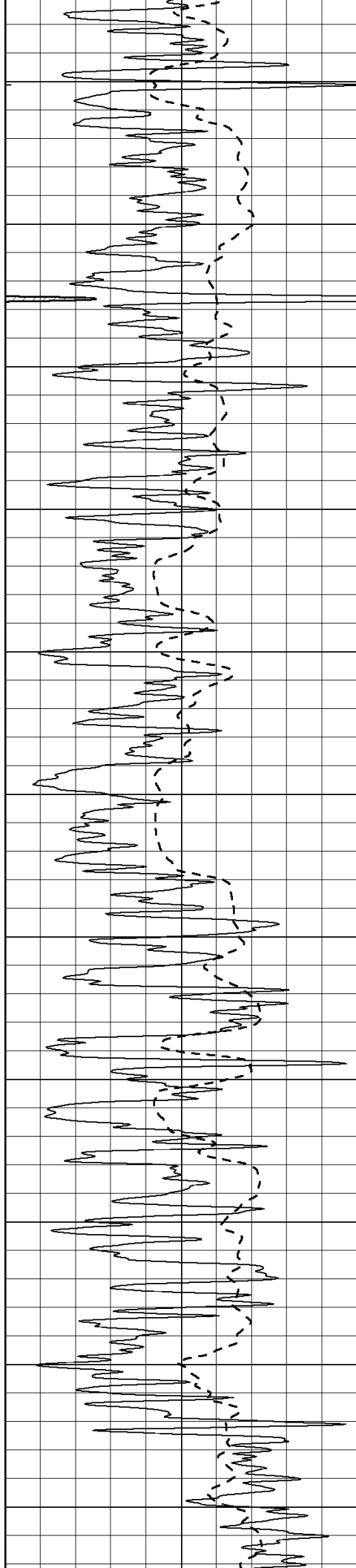
900

950









2100

2150

2200

2250

2300

2350

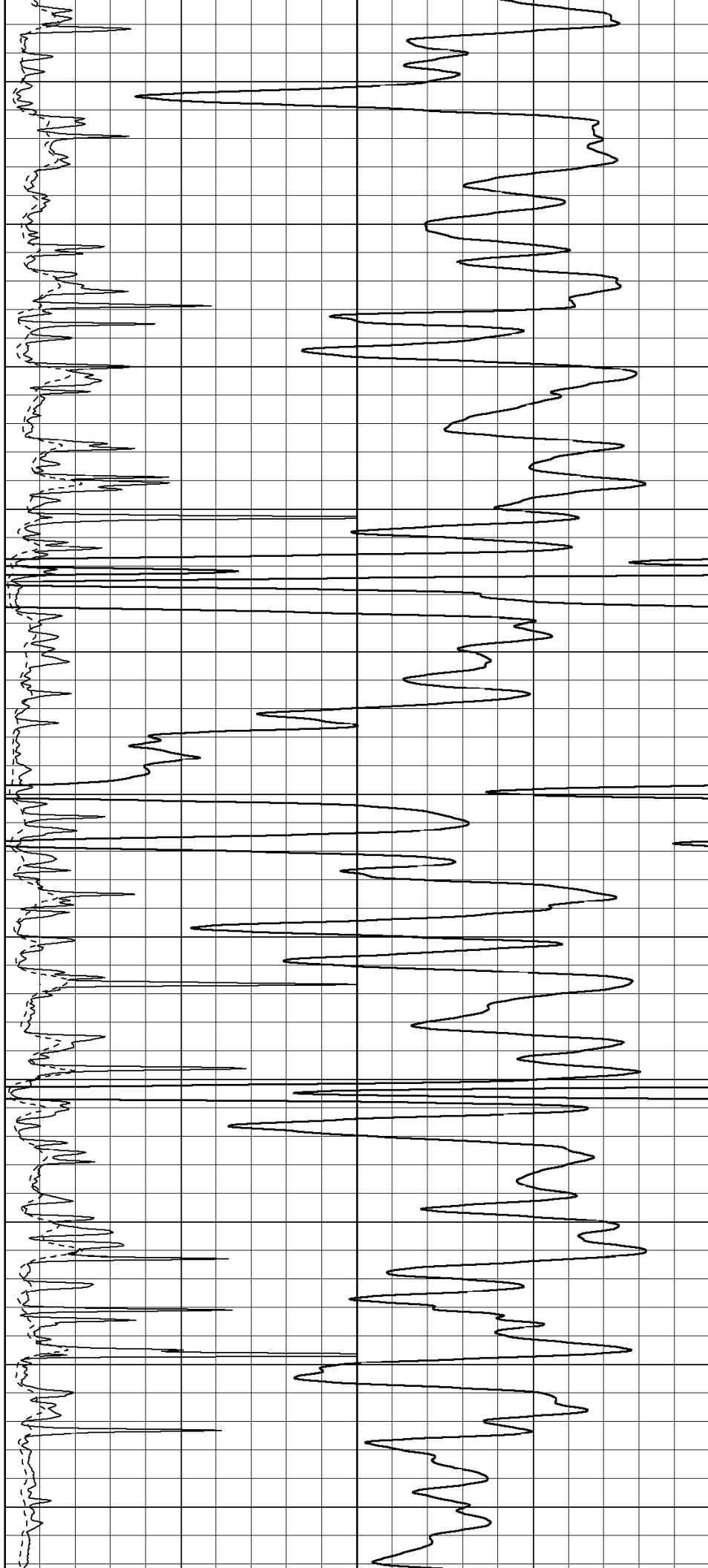
2400

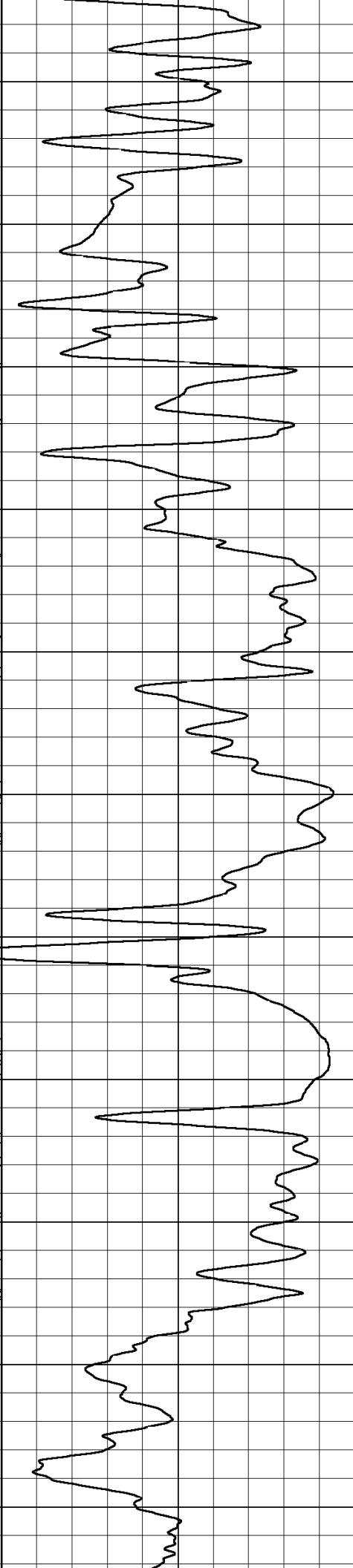
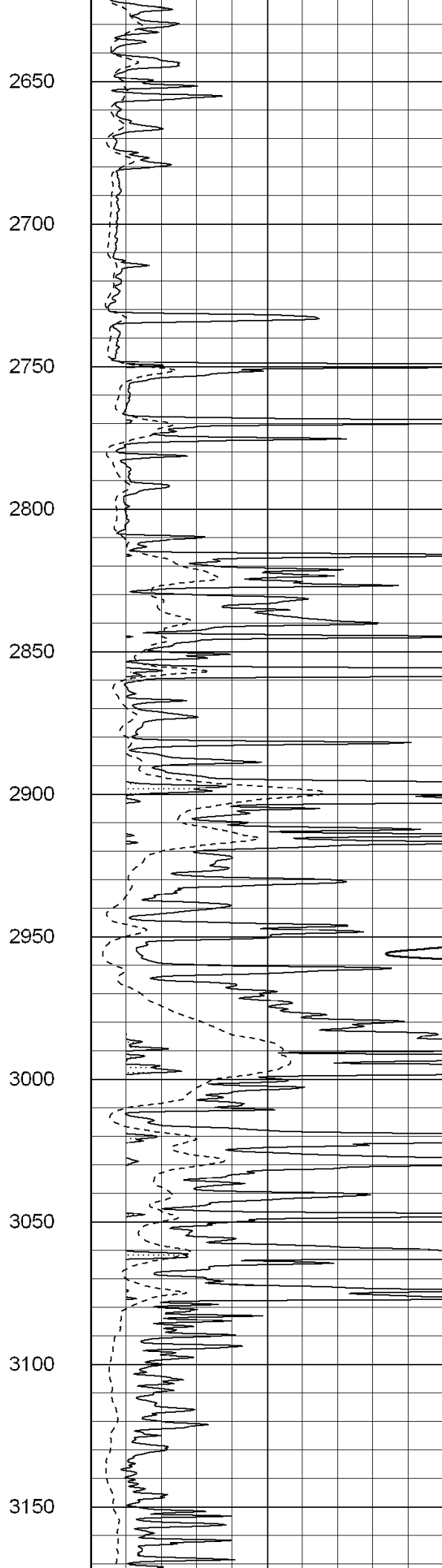
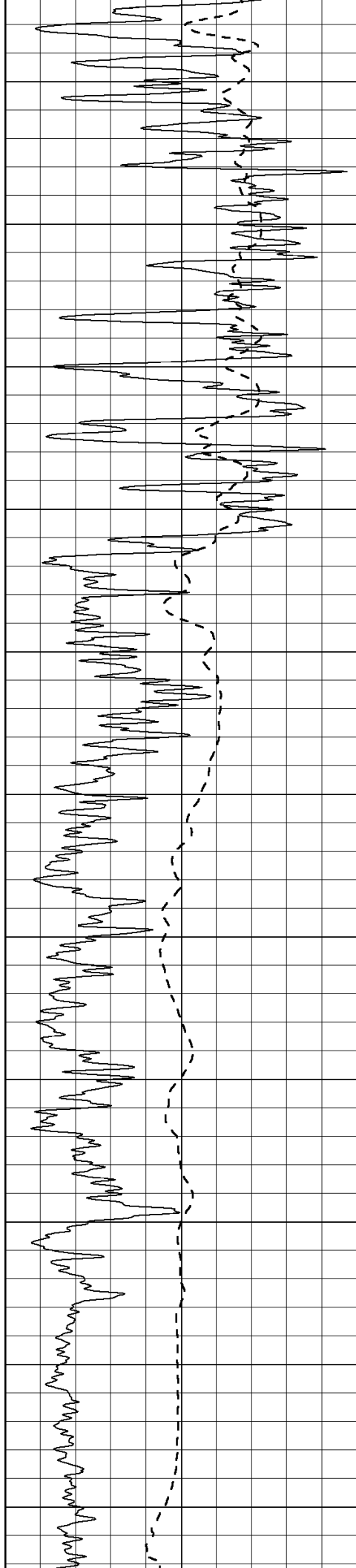
2450

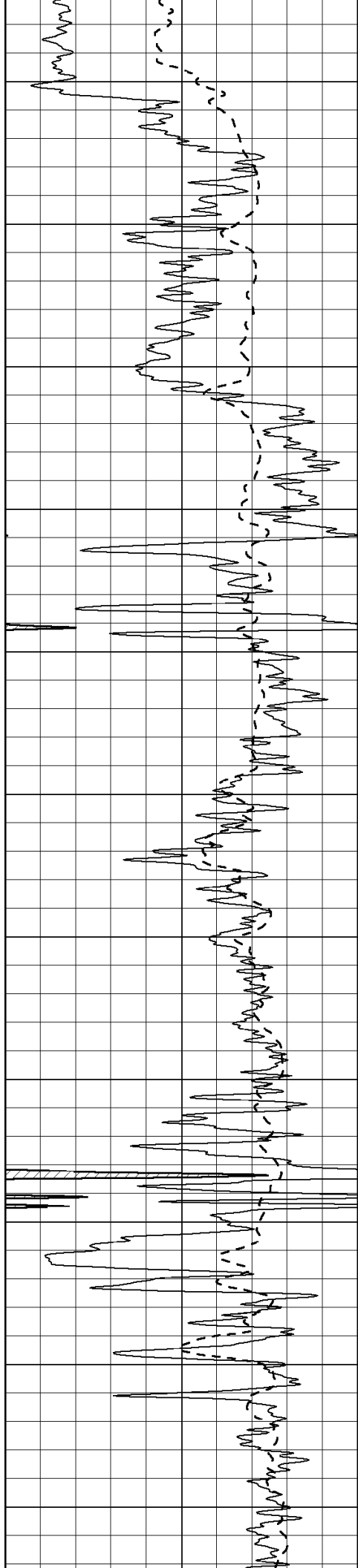
2500

2550

2600







3200

3250

3300

3350

3400

3450

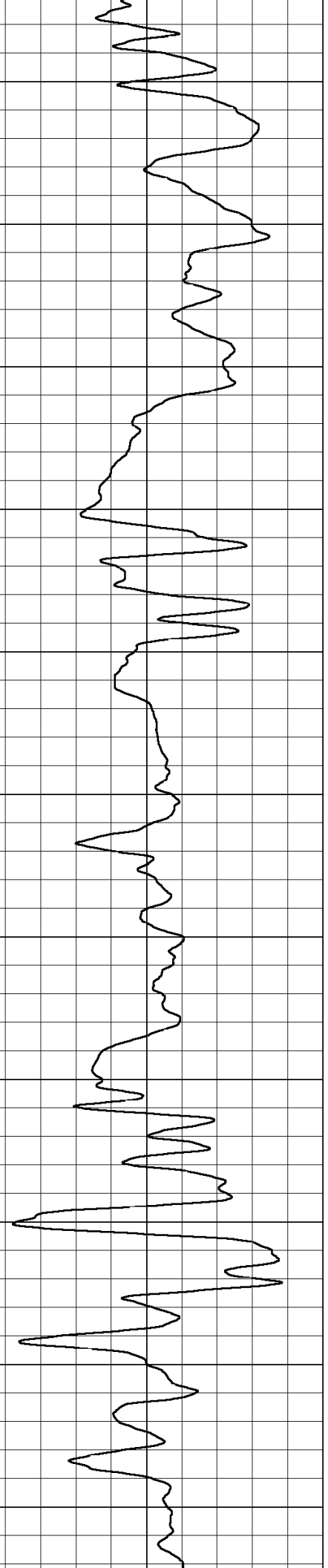
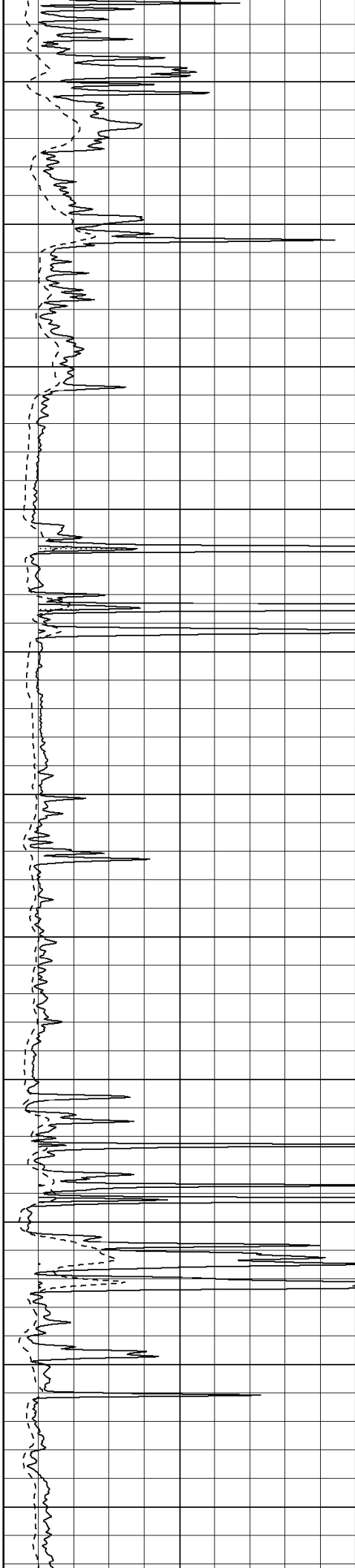
3500

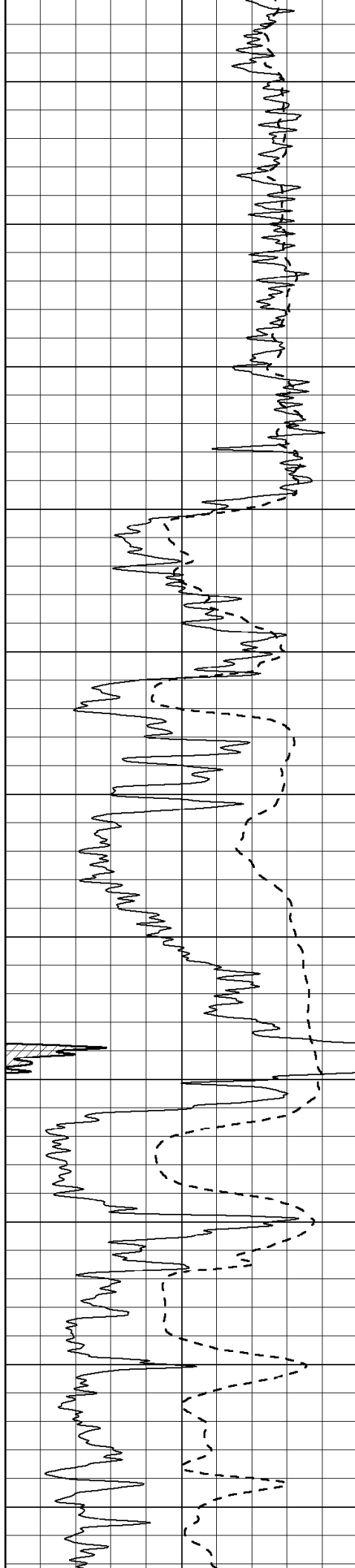
3550

3600

3650

3700





3750

3800

3850

3900

3950

4000

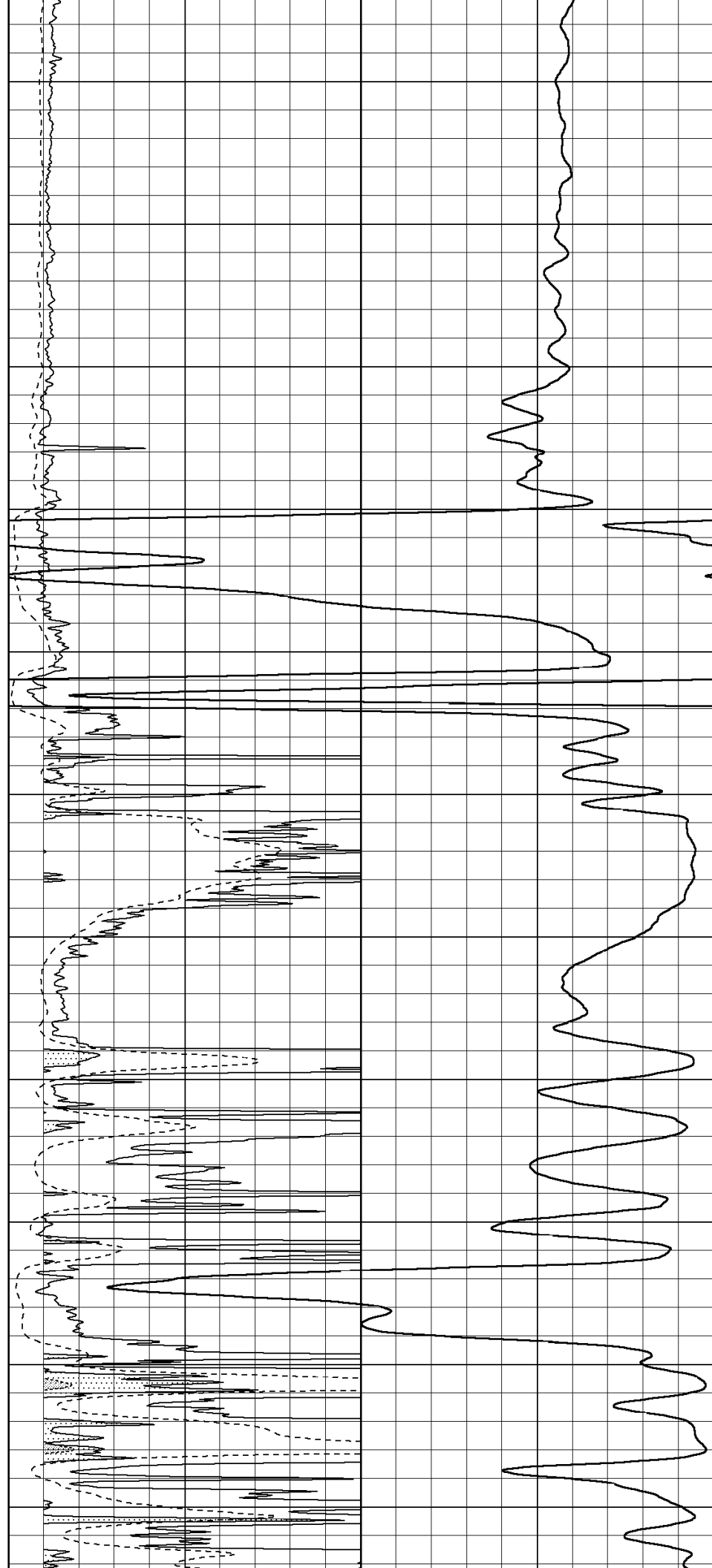
4050

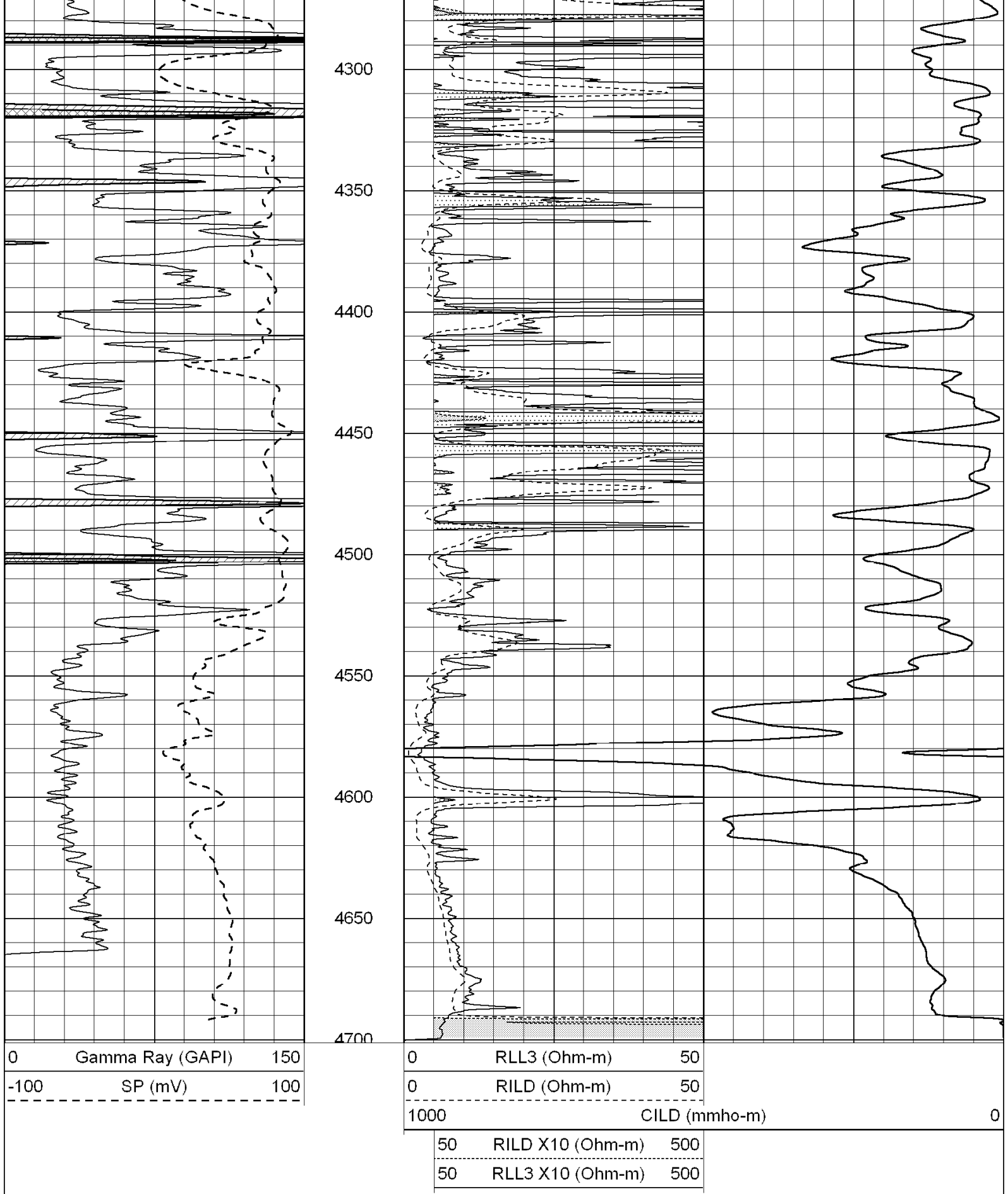
4100

4150

4200

4250

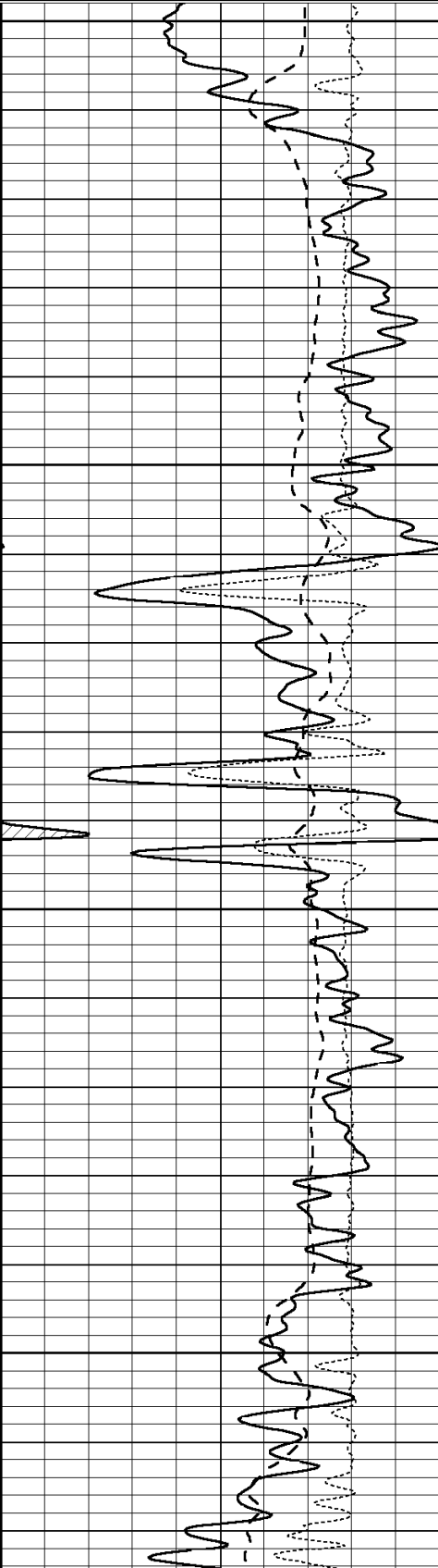




Database File: 004722ddn.db
Dataset Pathname: pass3.4
Presentation Format: dil
Dataset Creation: Sun Feb 21 15:39:12 2010 by Calc Open-Cased 060407
Charted by: Depth in Feet scaled 1:240

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

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

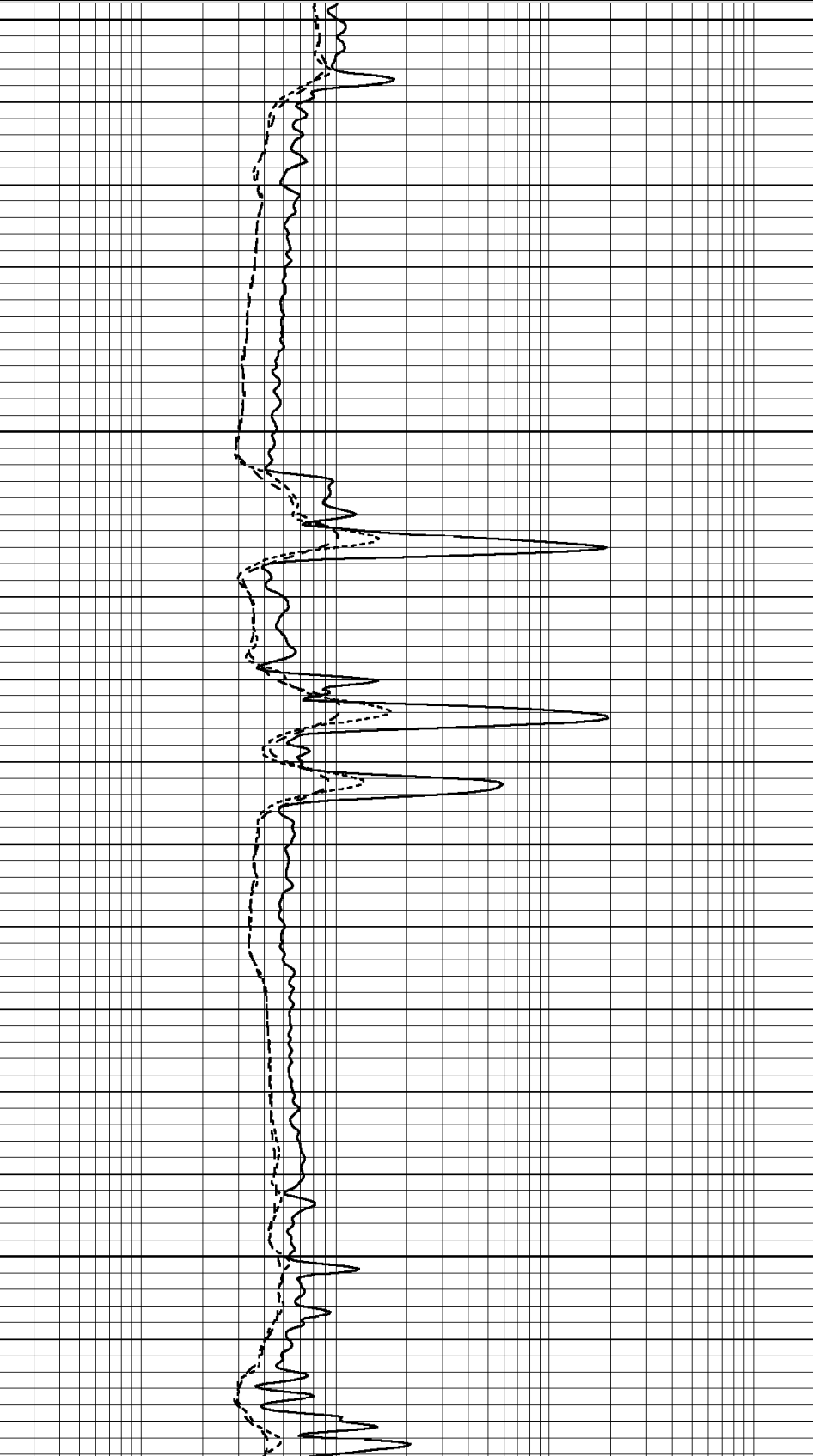


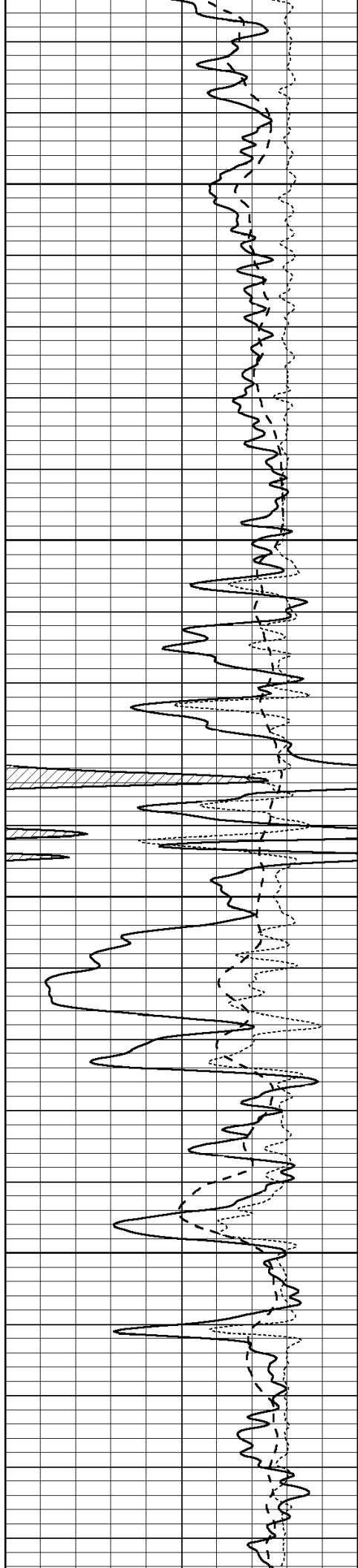
3300

3350

3400

3450



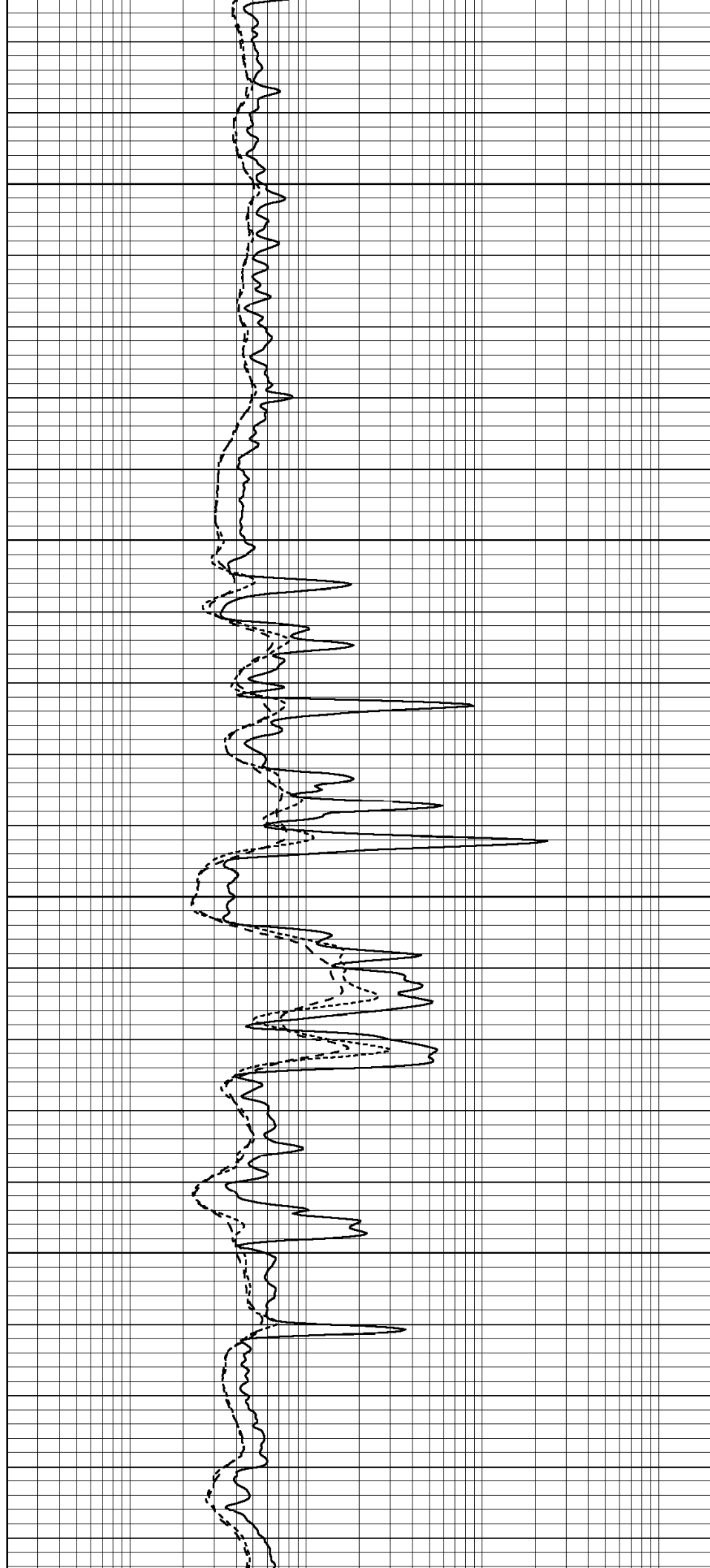


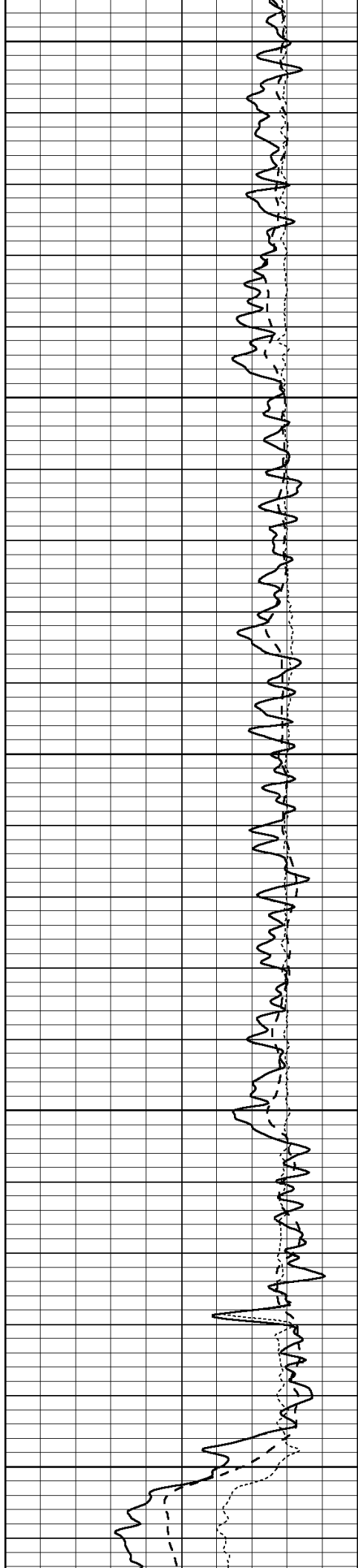
3500

3550

3600

3650





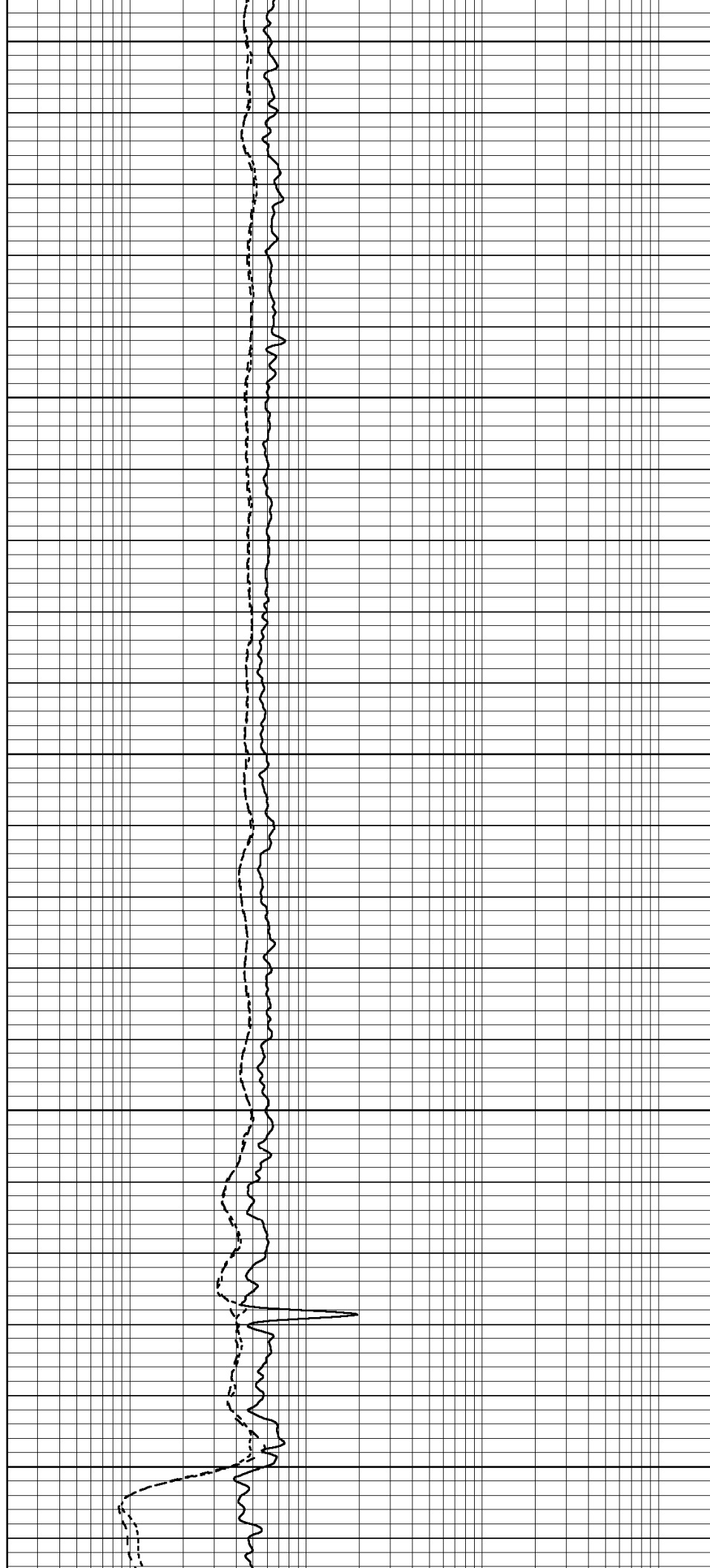
3700

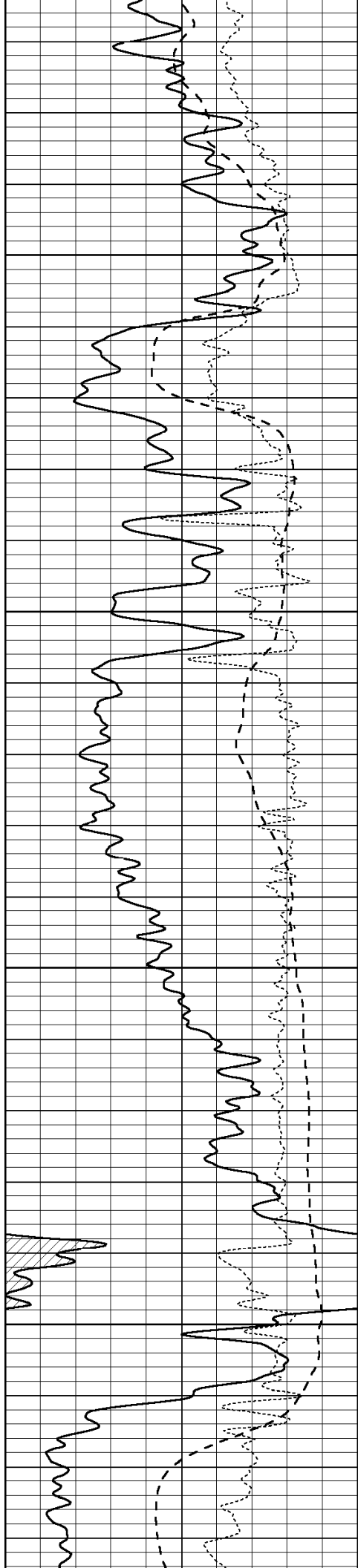
3750

3800

3850

3900



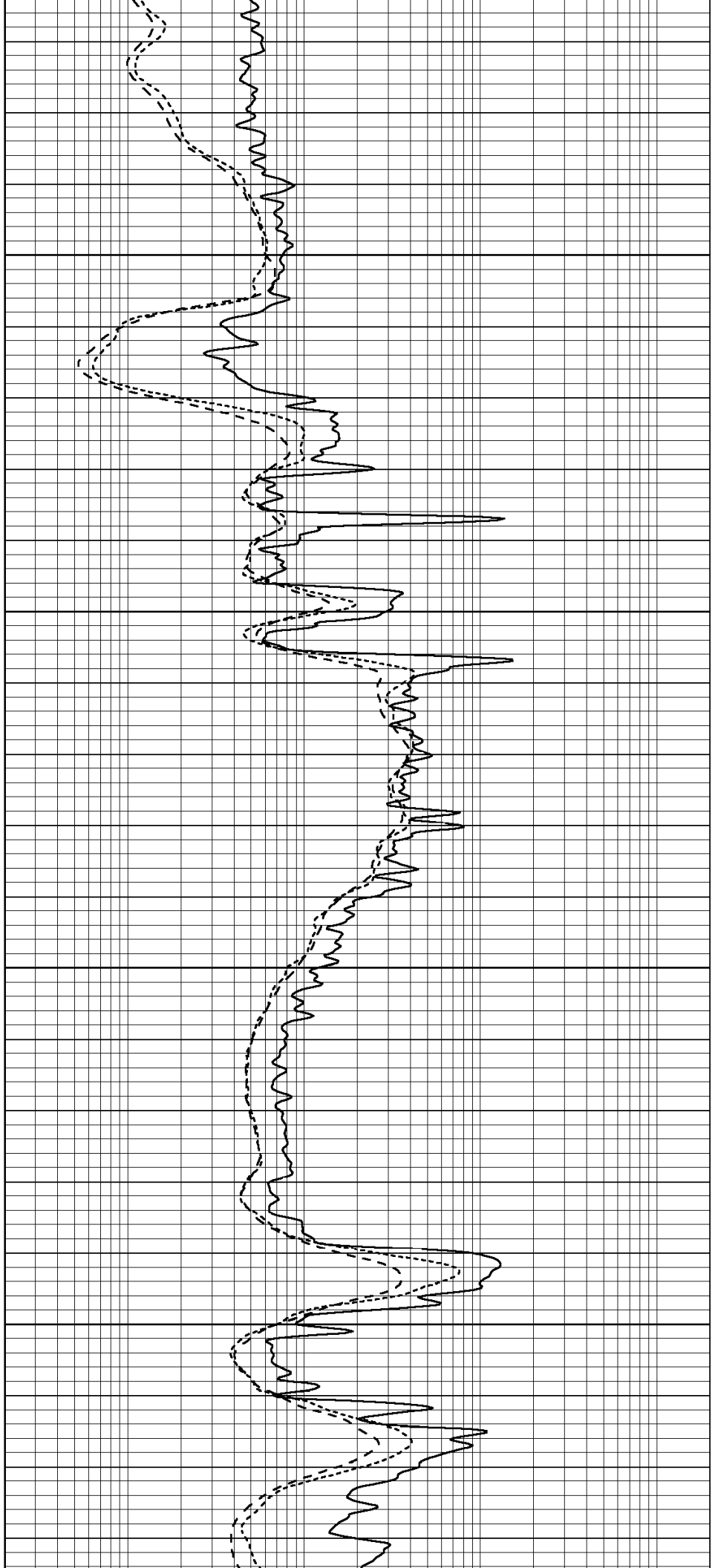


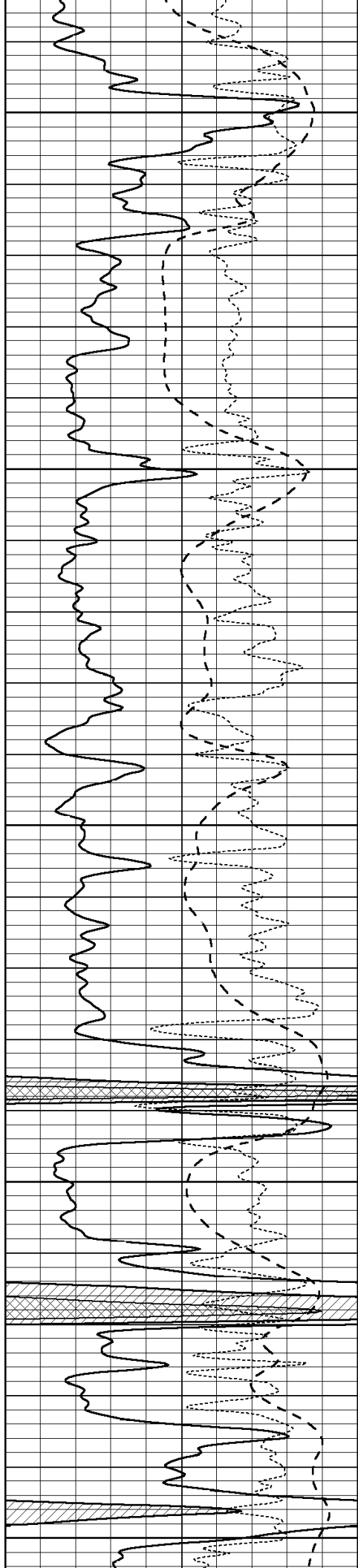
3950

4000

4050

4100





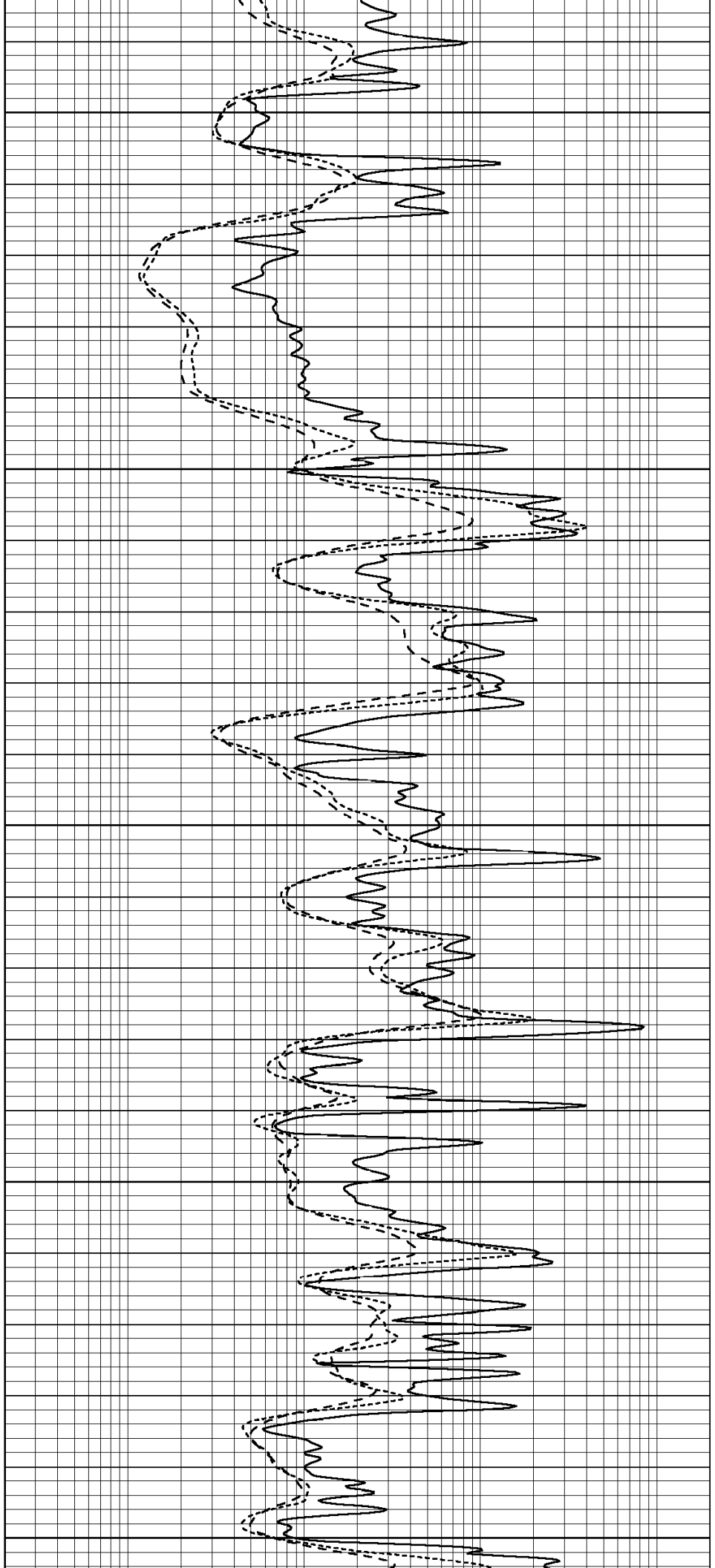
4150

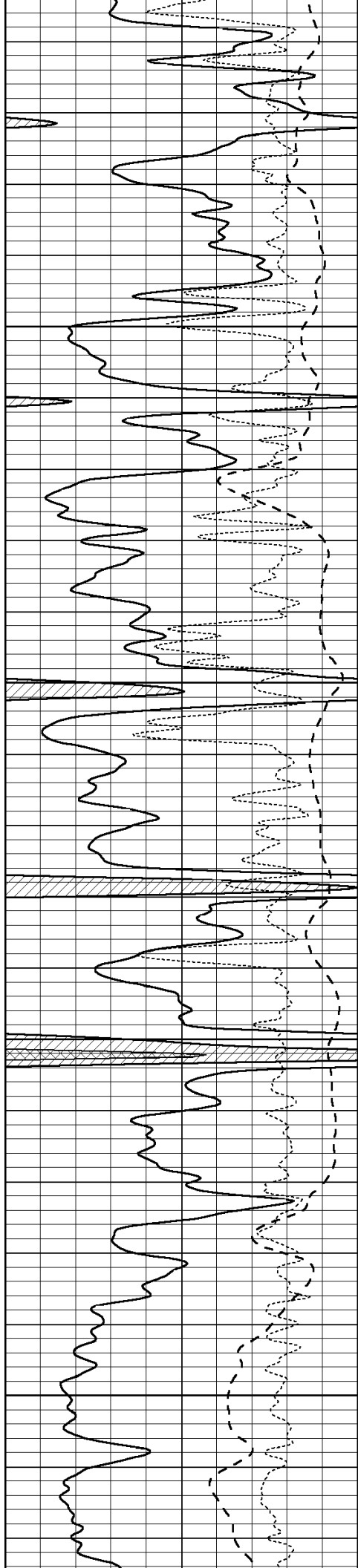
4200

4250

4300

4350



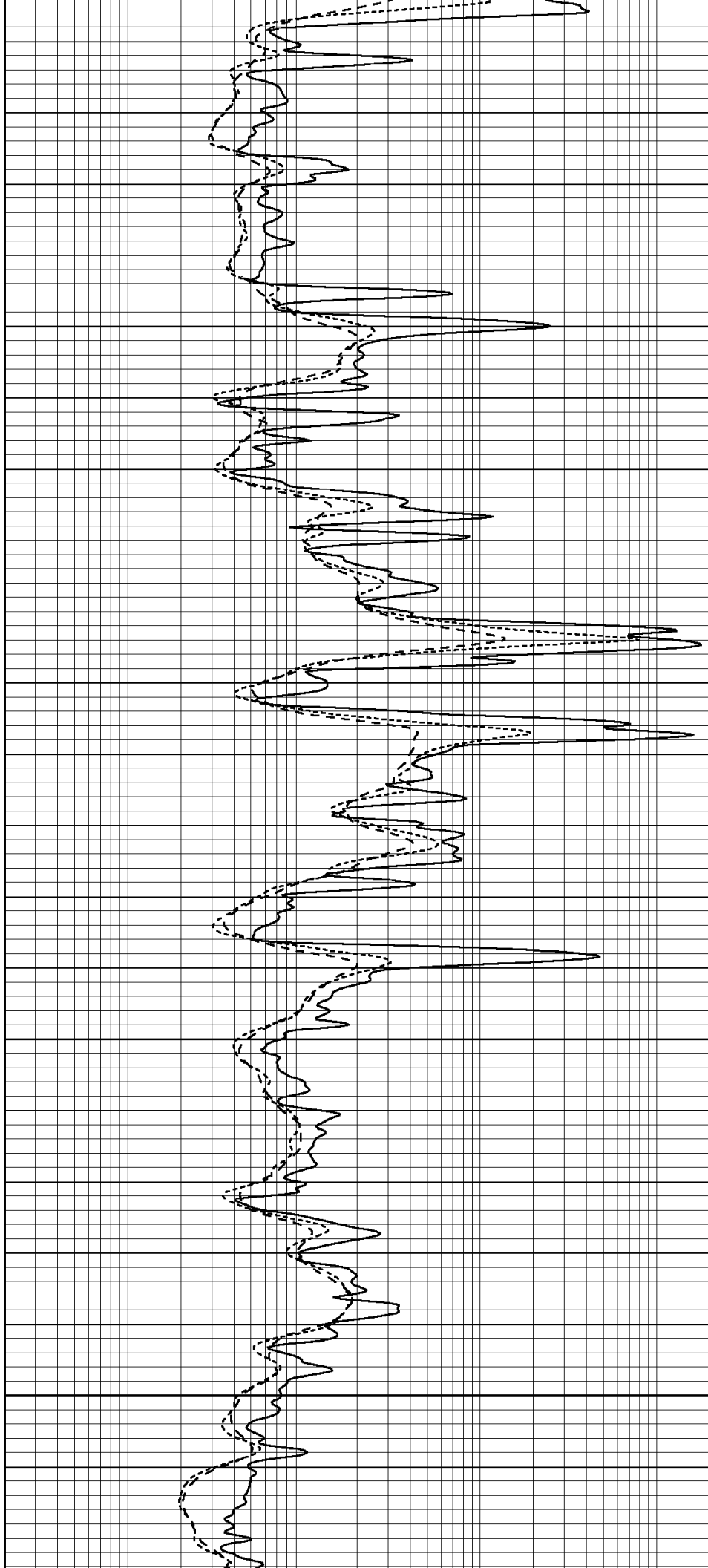


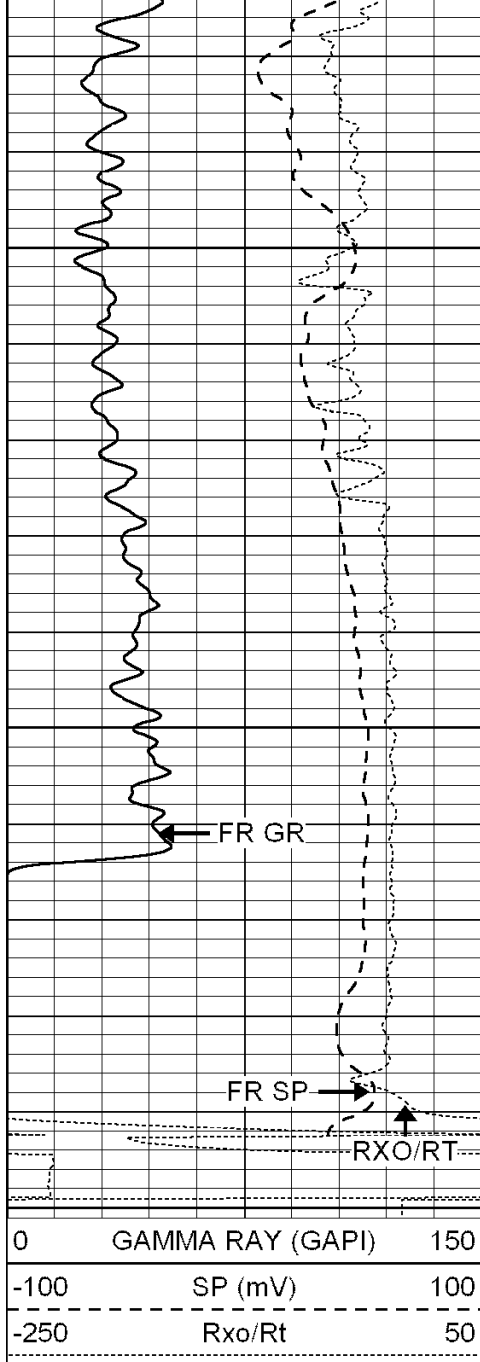
4400

4450

4500

4550

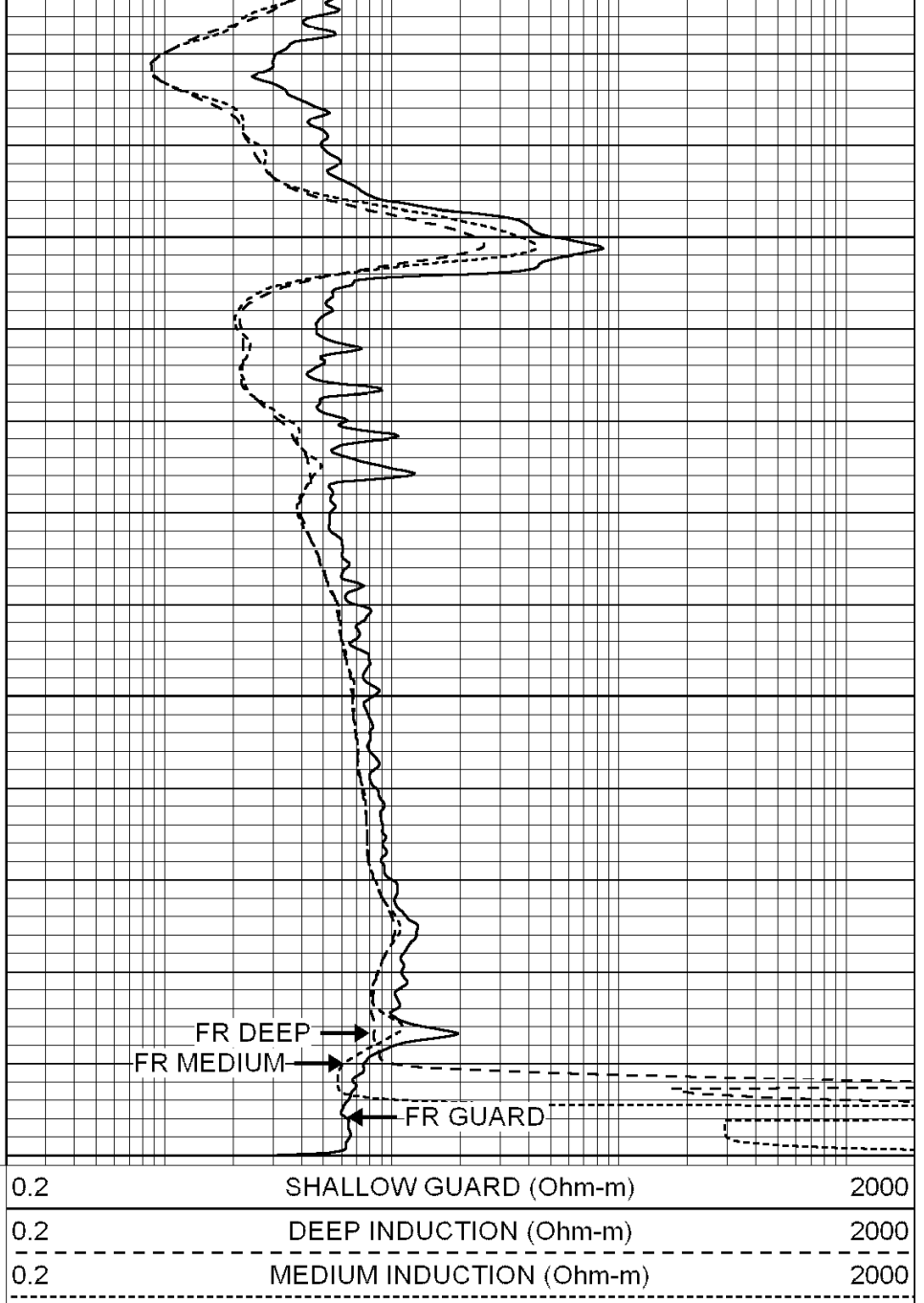




4600

4650

LTD 4698
4700



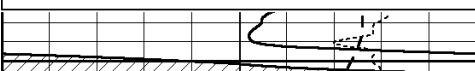
SUPERIOR
Hays,
Kansas

REPEAT SECTION

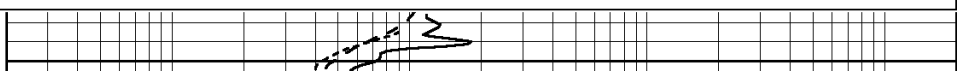
Database File: 004722ddn.db
 Dataset Pathname: pass2.5
 Presentation Format: dil
 Dataset Creation: Sun Feb 21 15:34:16 2010 by Calc Open-Cased 060407
 Charted by: Depth in Feet scaled 1:240

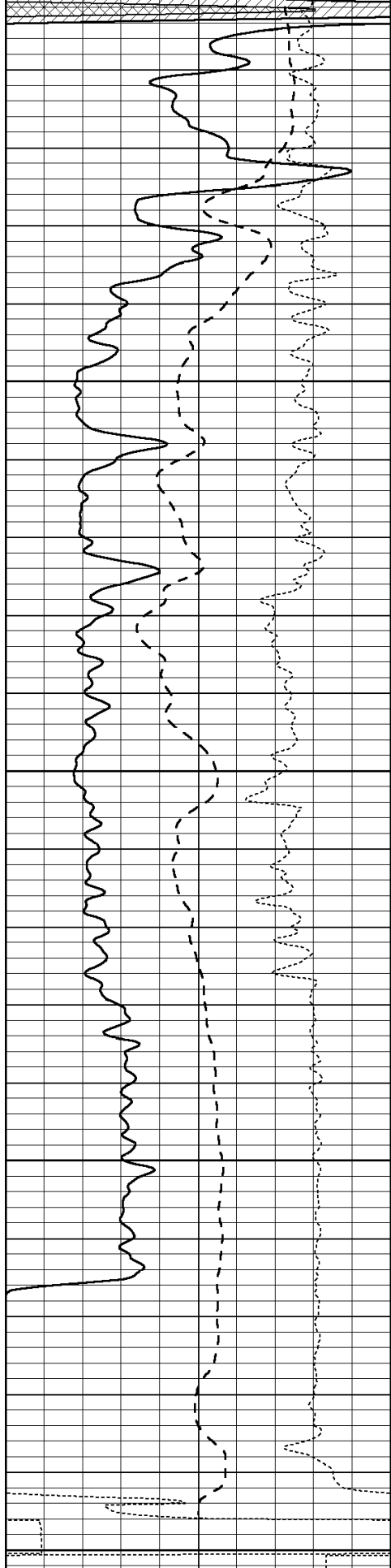
0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50

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



4500





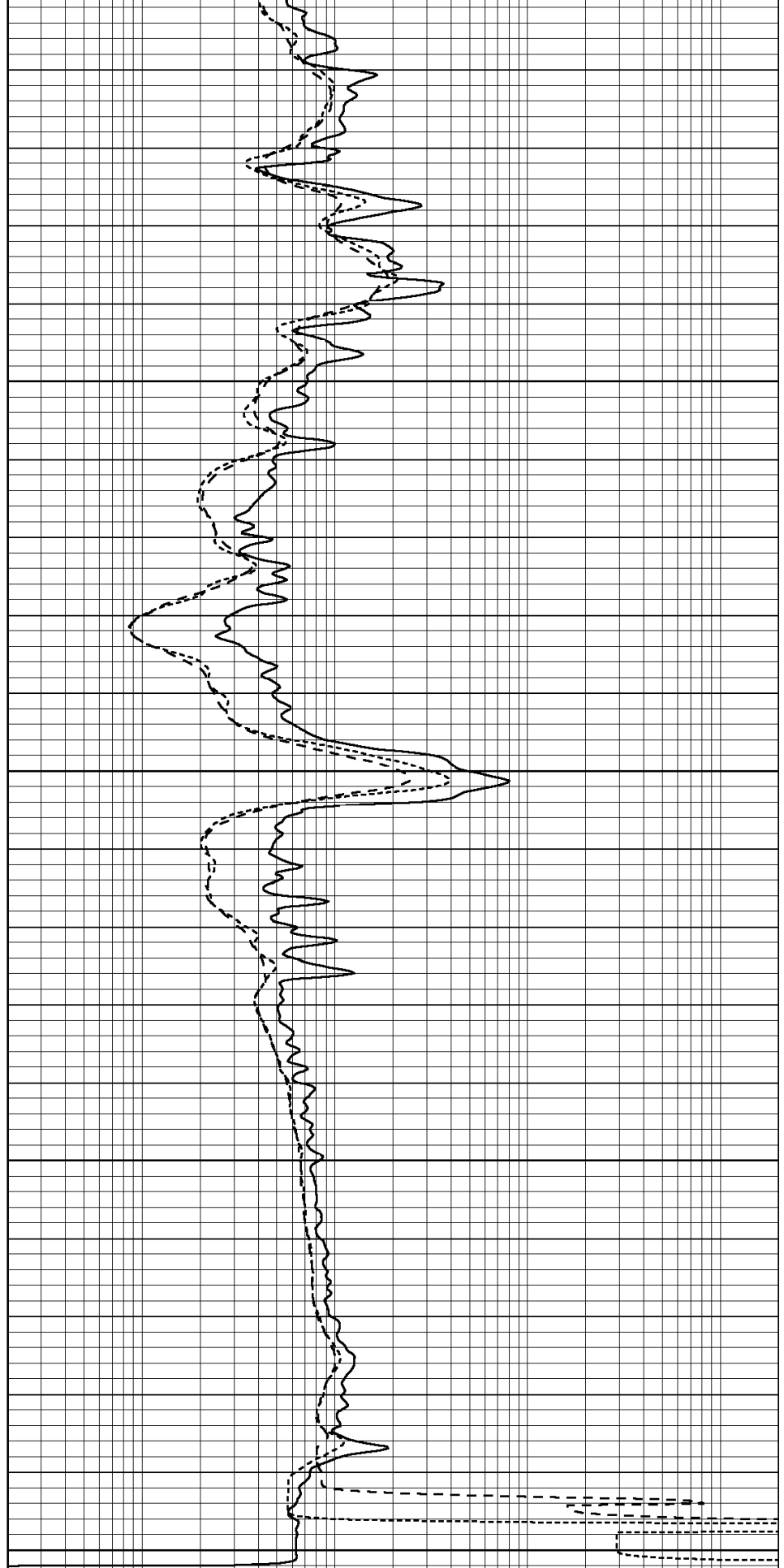
0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50

4550

4600

4650

4700



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

Calibration Report	
Database File:	004722ddn.db
Dataset Pathname:	pass3.4
Dataset Creation:	Sun Feb 21 15:39:12 2010 by Calc Open-Cased 060407

Dual Induction Calibration Report

Serial-Model:	DIL6-GEAR
Performed:	Sun Feb 21 13:21:04 2010

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.001	0.644	V	0.000	400.000	mmho-m	660.000	-6.000
Medium	0.020	0.738	V	0.000	462.500	mmho-m	740.000	-28.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.000	1.000	V	0.000	1.000	mmho-m	1.000	0.000
Medium	0.000	1.000	V	0.000	1.000	mmho-m	1.000	0.000

Litho Density Calibration Report

Serial: 004N

Model: PRB

Performed Tue Sep 08 13:49:55 2009

Litho Density Calibration					
	Background	Magnesium	Aluminum	Sandstone	
Window 1	1535.8	11161.3	3721.6	12498.8	cps
Window 2	1402.6	9435.7	3219.7	10417.7	cps
Window 3	1077.6	4422.0	1779.2	4753.4	cps
Window 4	337.3	342.8	337.4	343.7	cps
Long Space	0.0	8033.1	1817.0	9015.1	cps
Short Space	1.2	1671.8	1138.1	1813.0	cps
Rho		1.7100	2.5900	1.3800	g/cc
Pe			2.5700	1.5500	
Rib Angle	: 45.5	Rib Slope	: 1.017	Density/Spine Ratio	: 0.573
Spine Angle	: 75.5	Spine Slope	: 3.865	Spine Intercept	: -19.7

Caliper			
Low Ref	Readings	Reference	
High Ref	1.1	7.0	
	3.0	14.0	
	Gain: 3.7		Offset: 3.0

Compensated Neutron Calibration Report

Serial Number:	NEU_4I
Tool Model:	G

CALIBRATION			
Detector	Readings	Target	Normalization
Short Space	996.00 cps	1000.00 cps	1.0000
Long Space	977.00 cps	1000.00 cps	1.0000

Gamma Ray Calibration Report

Serial Number:	GR4
Tool Model:	OPEN
Performed:	Sun Feb 21 13:20:50 2010

Performed:	Sun Feb 21 13:20:30 2010	
Calibrator Value:	200.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	189.0	cps
Sensitivity:	0.6500	GAPI/cps