



SUPERIOR
Hays,
Kansas

DUAL INDUCTION LOG

Company	LOTUS OPERATING CO. LLC.		
Well	#7 CR WETZ		
Field	STRANATHAN		
County	BARBER	State	KANSAS
Location:	API # : 15-007-23618-0000		Other Services CDL/CNL/PE MEL/SONIC
Permanent Datum Log Measured From Drilling Measured From		GROUND LEVEL KELLY BUSHING 13' A.G.L. KELLY BUSHING	
SEC 1 TWP 35S RGE 12W		Elevation K.B. 1429 D.F. 1427 G.L. 1416	
Date	12/7/10		
Run Number	ONE		
Depth Driller	5445		
Depth Logger	5448		
Bottom Logged Interval	5446		
Top Log Interval	00		
Casing Driller	10 3/4"@294'		
Casing Logger	294		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 2,000 PPM	
Density / Viscosity	9.6/48		
pH / Fluid Loss	10.0/10.0		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	1.20@60F		
Rinf @ Meas. Temp	.900@60F		
Rmc @ Meas. Temp	1.44@60F		
Source of Rinf / Rmc	MEASUREMENT		
Rim @ BHT	.558@129F		
Time Circulation Stopped	3 HOURS		
Time Logger on Bottom	7:15 P.M.		
Maximum Recorded Temperature	129F		
Equipment Number	0836		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	JOE BAKER		

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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. (HWY 160 & 281 JUNCTION) 17S. ON HWY 281 TO MM #7, 3/4W. ON
"DRIFTWOOD RD.", N. INTO



SUPERIOR
Hays,
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MAIN SECTION

Database File: 005825pe.db
Dataset Pathname: pass3.5
Presentation Format: dil2
Dataset Creation: Tue Dec 07 21:48:19 2010 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:600

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

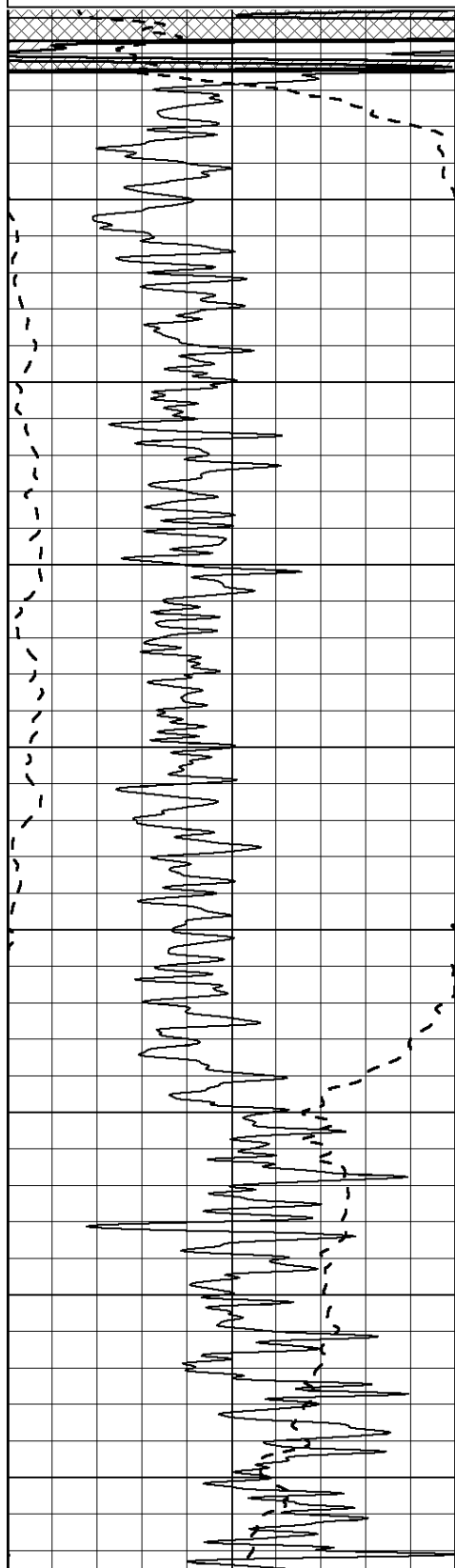
0 RLL3 (Ohm-m) 50

0 RILD (Ohm-m) 50

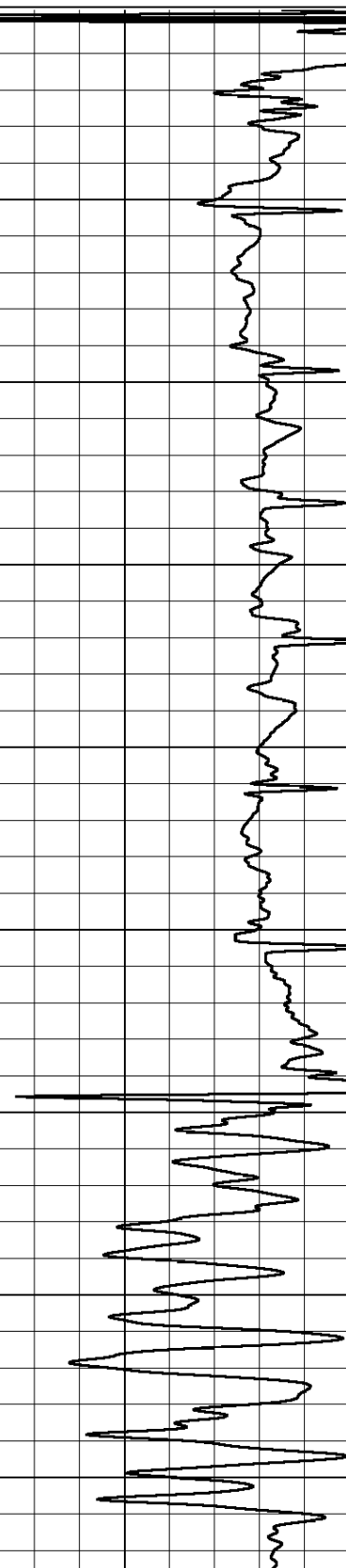
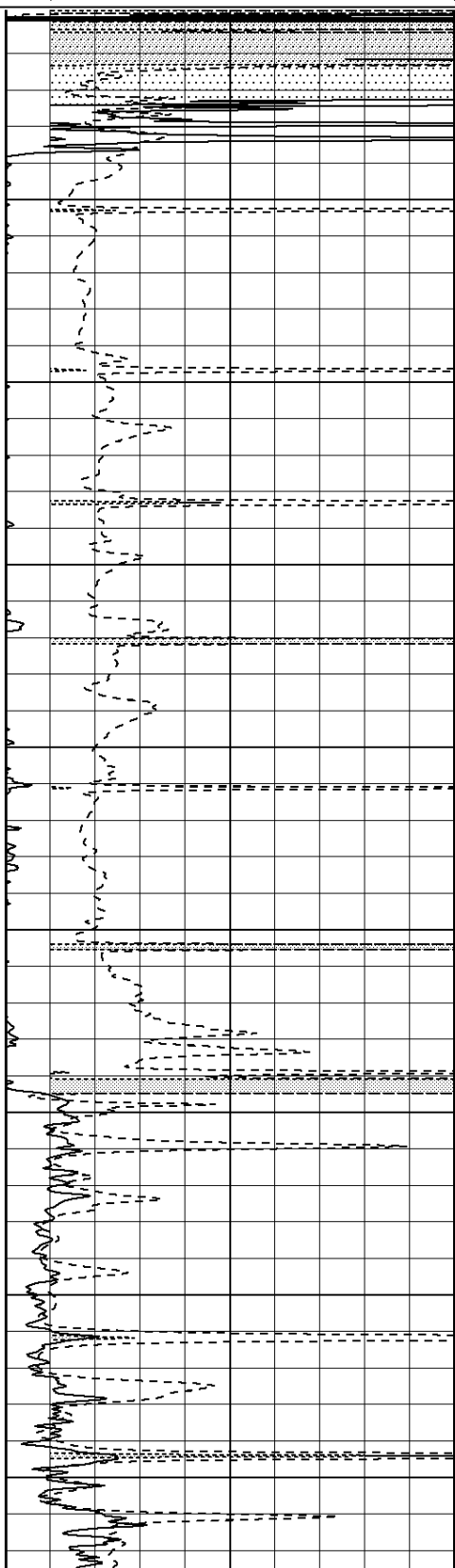
1000 CILD (mmho/m) 0

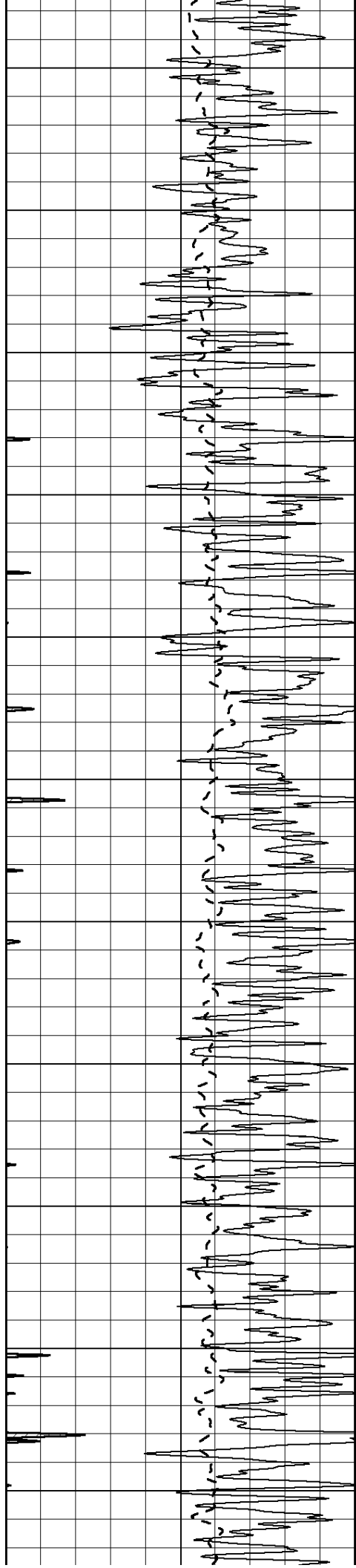
50 RILD X10 (Ohm-m) 500

50 RLL3 X10 (Ohm-m) 500



0
50
100
150
200
250
300
350
400





450

500

550

600

650

700

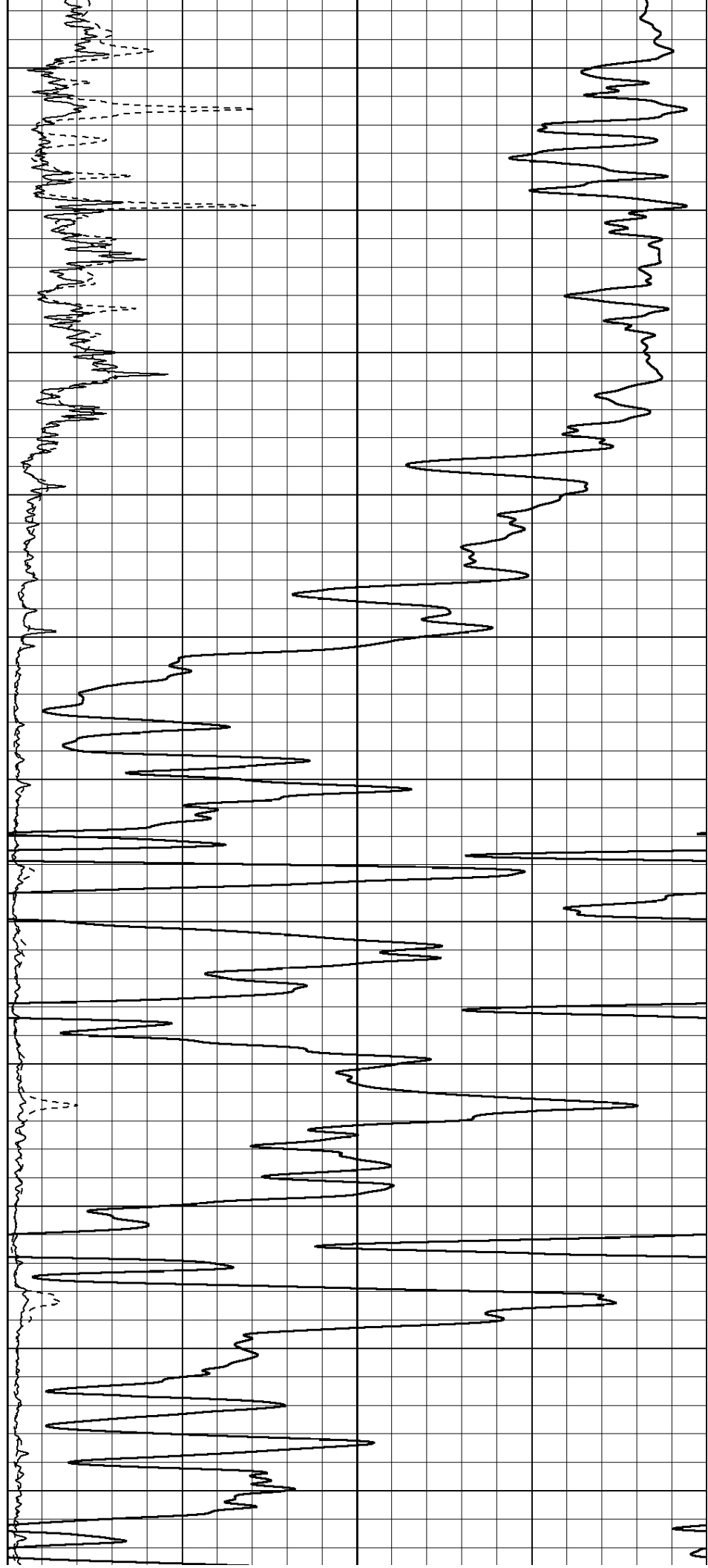
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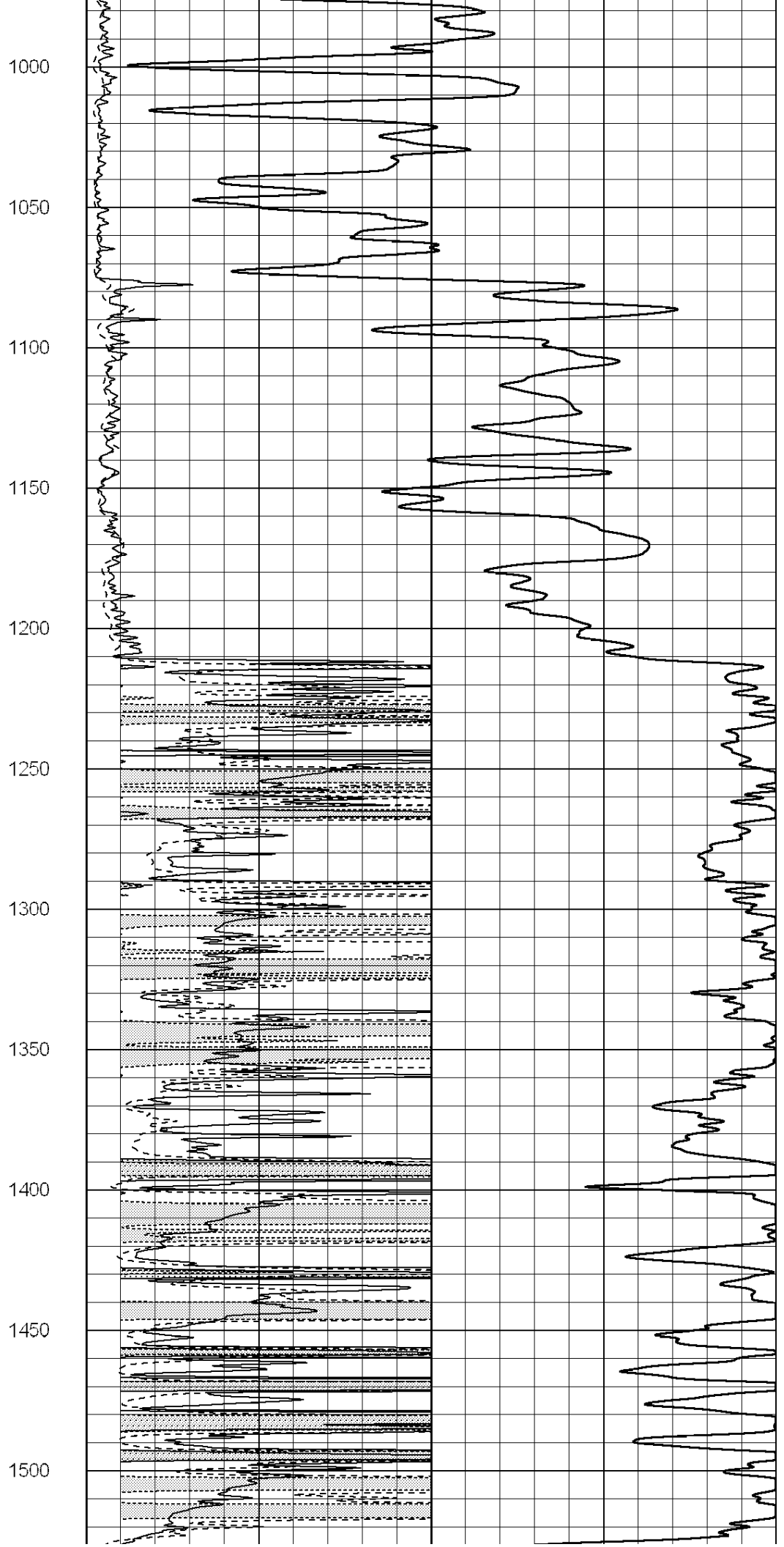
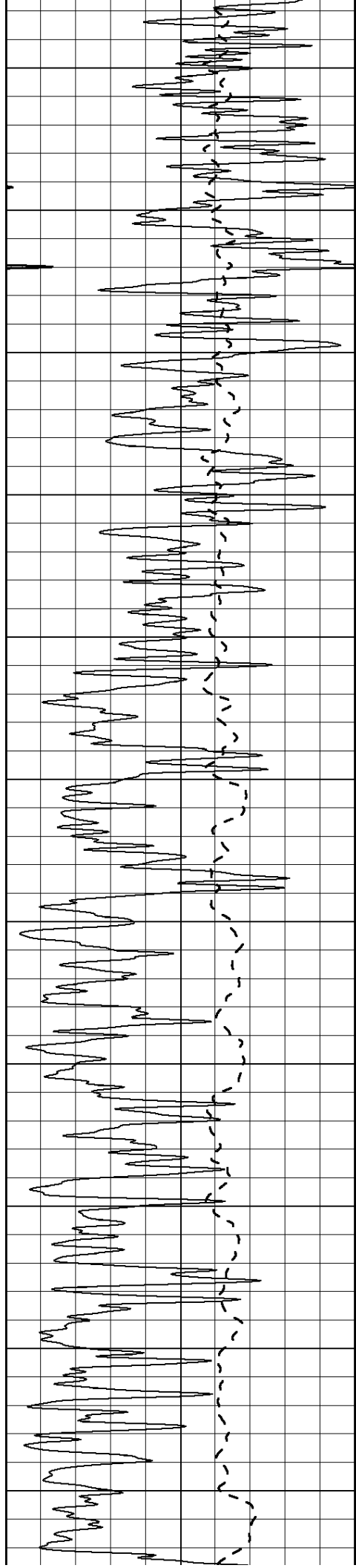
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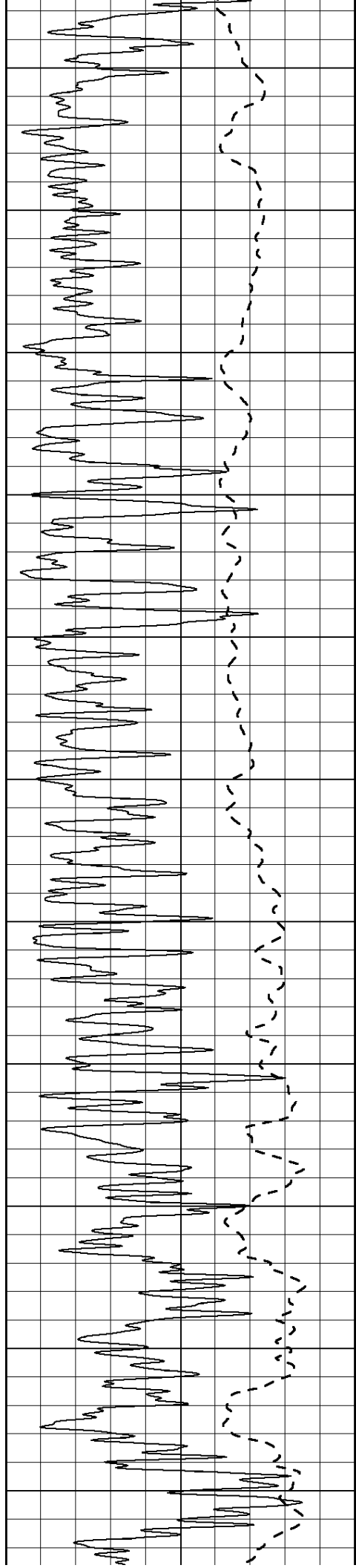
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900

950







1550

1600

1650

1700

1750

1800

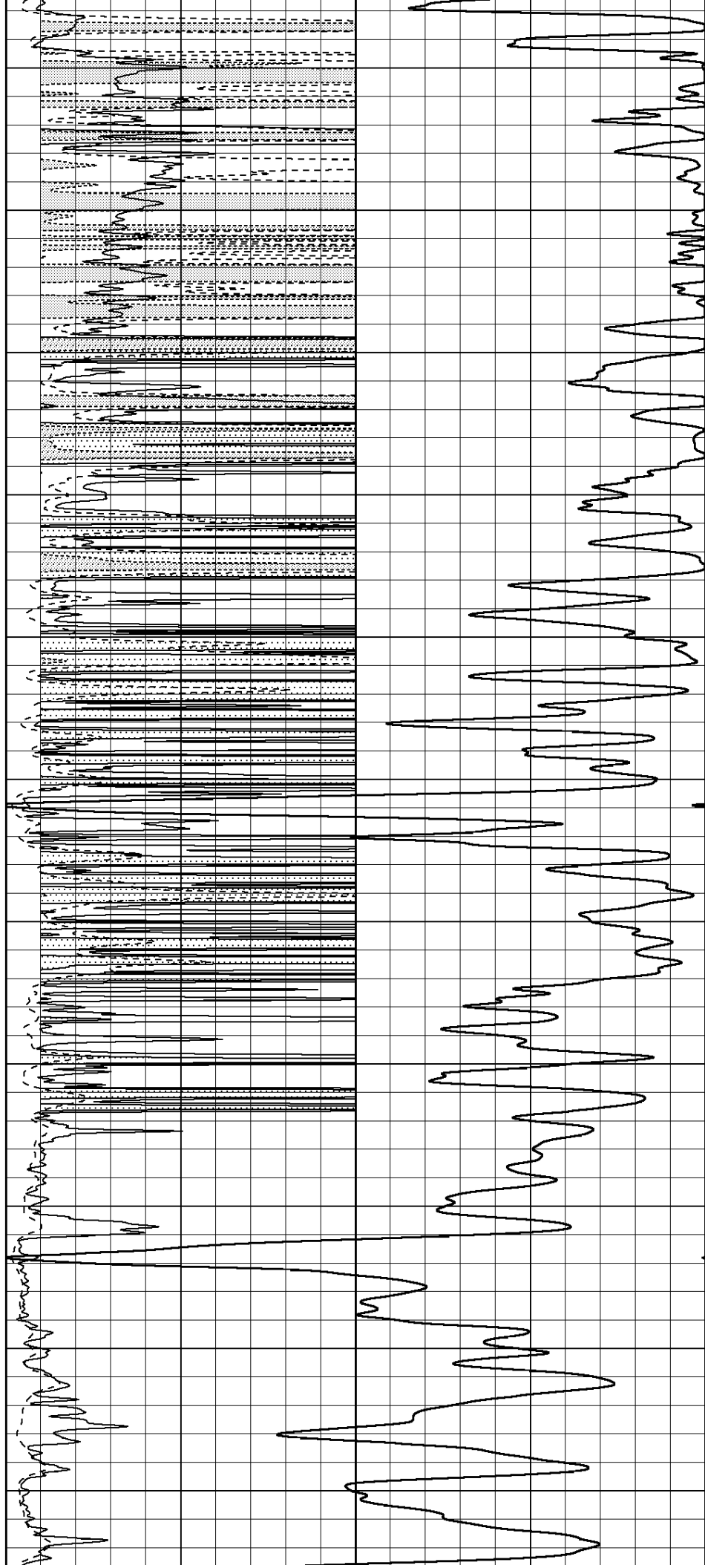
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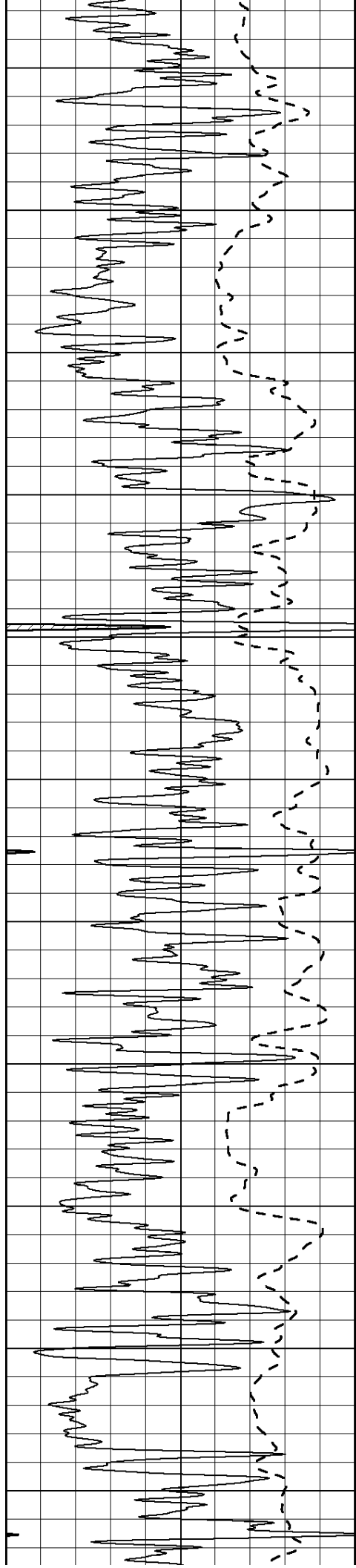
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1950

2000

2050





2100

2150

2200

2250

2300

2350

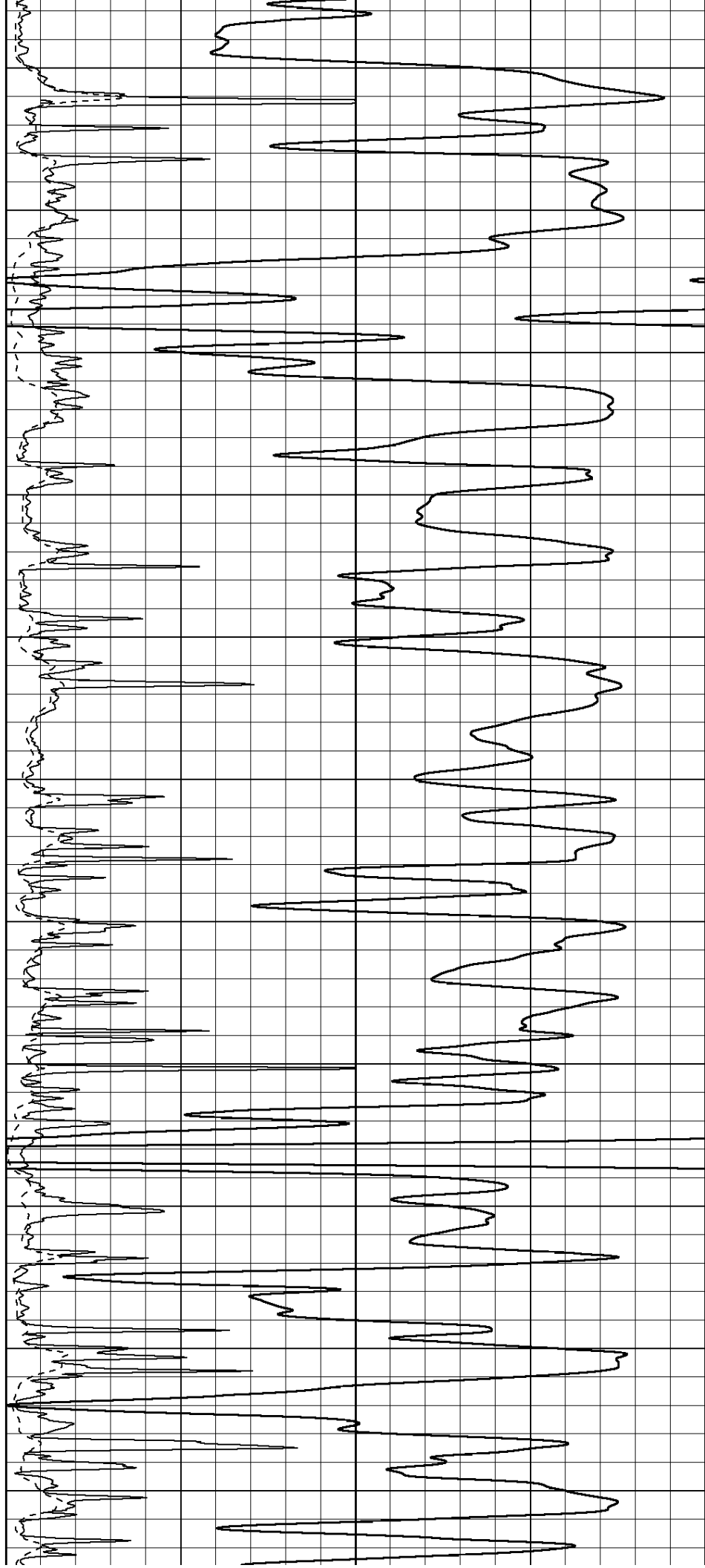
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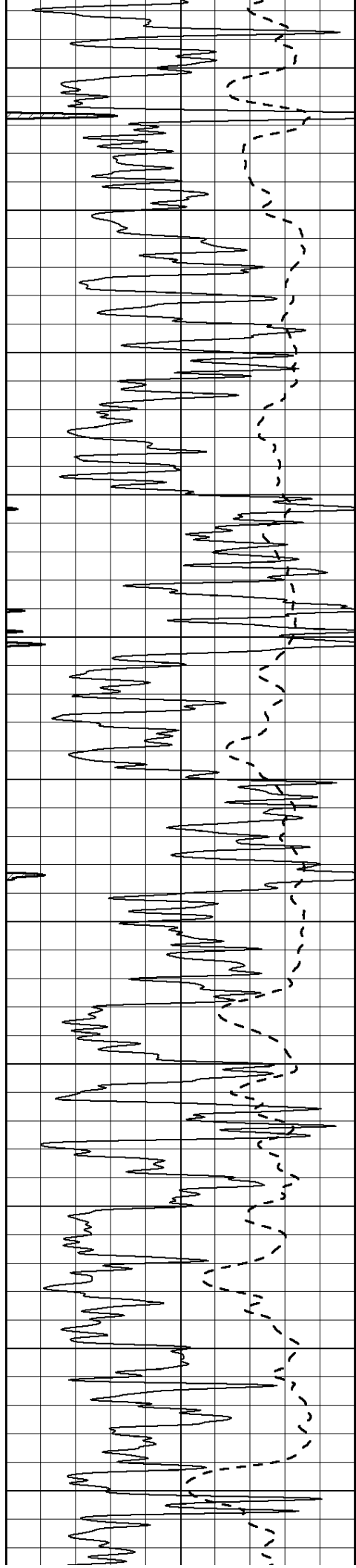
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2500

2550

2600





2650

2700

2750

2800

2850

2900

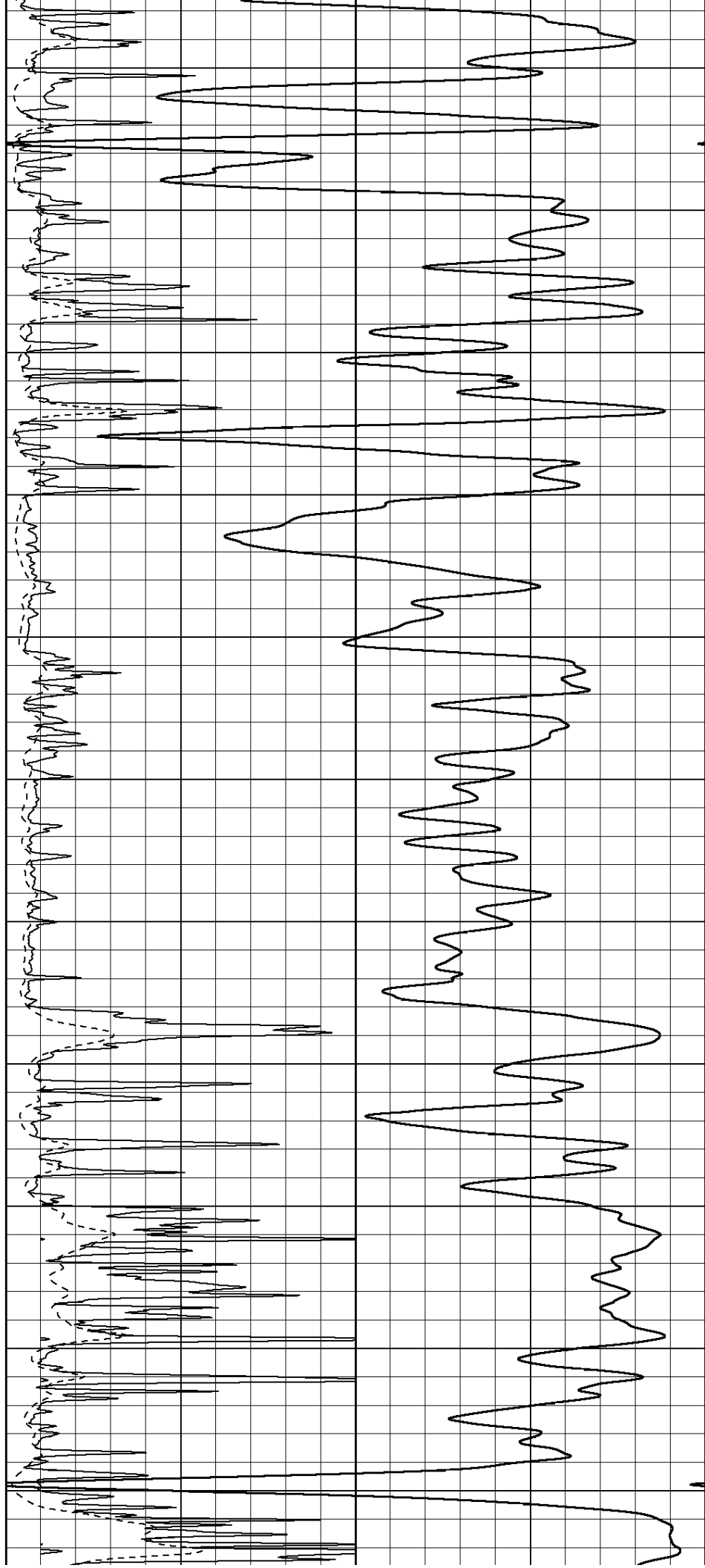
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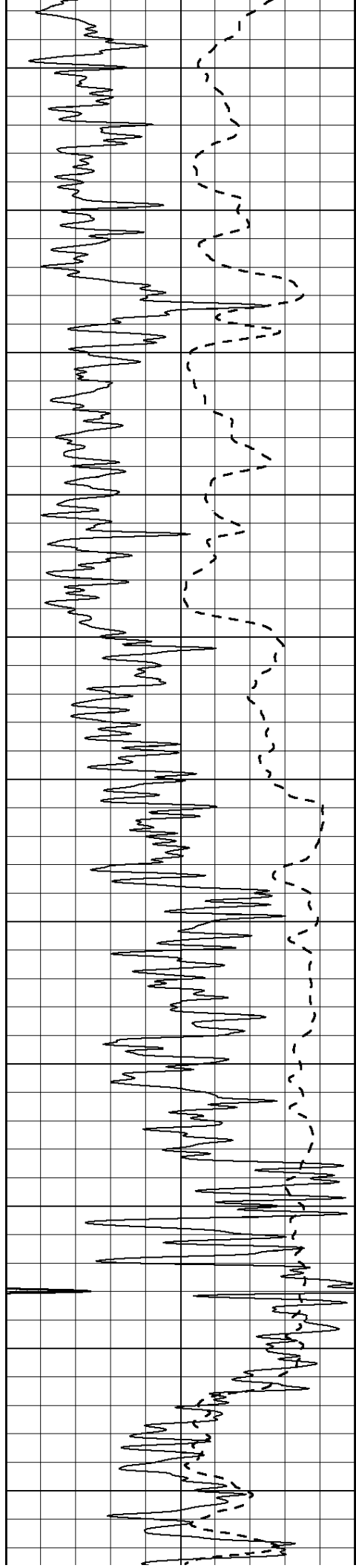
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3050

3100

3150





3200

3250

3300

3350

3400

3450

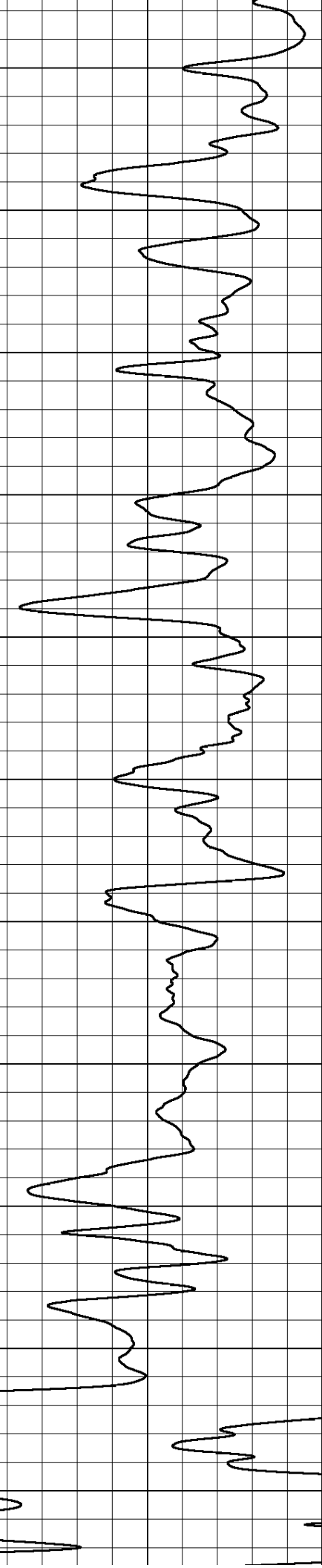
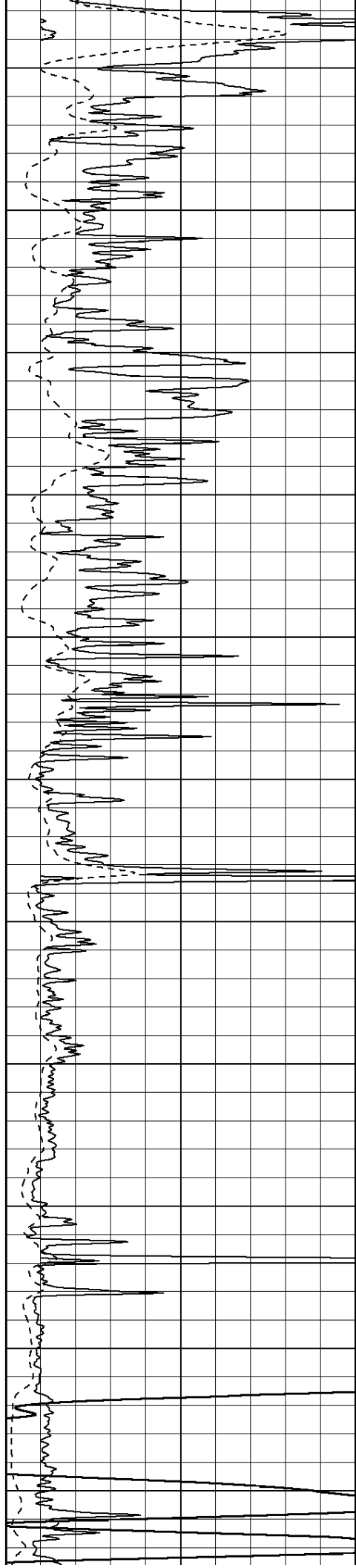
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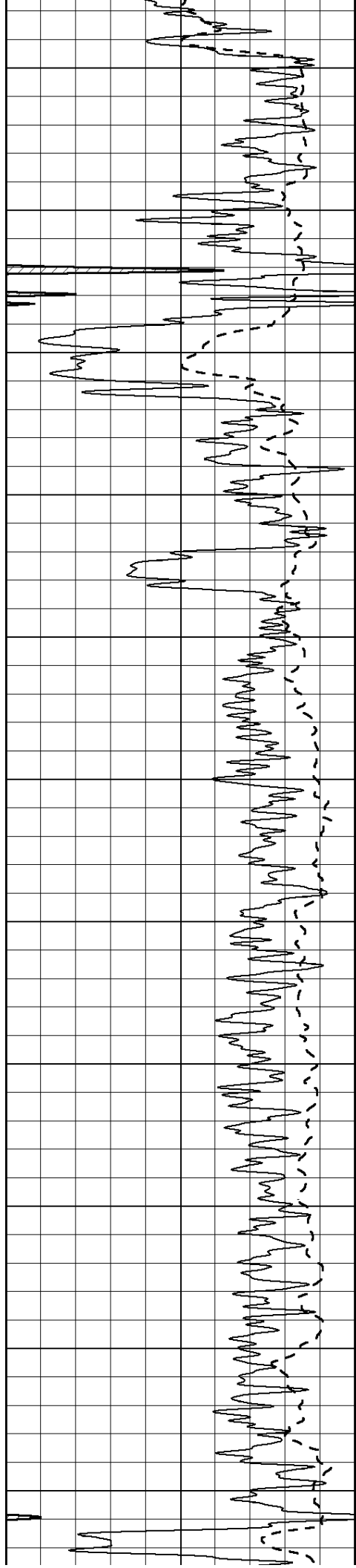
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3600

3650

3700





3750

3800

3850

3900

3950

4000

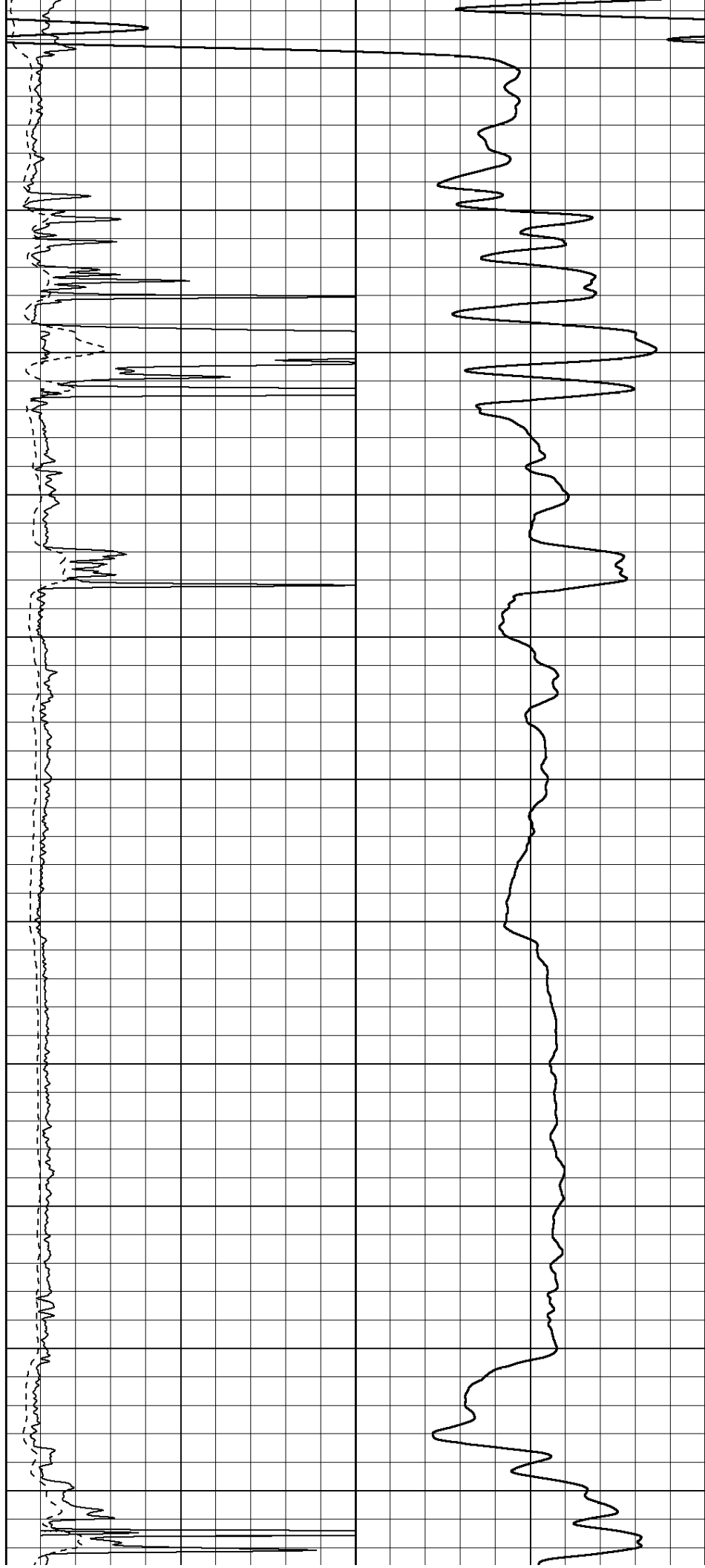
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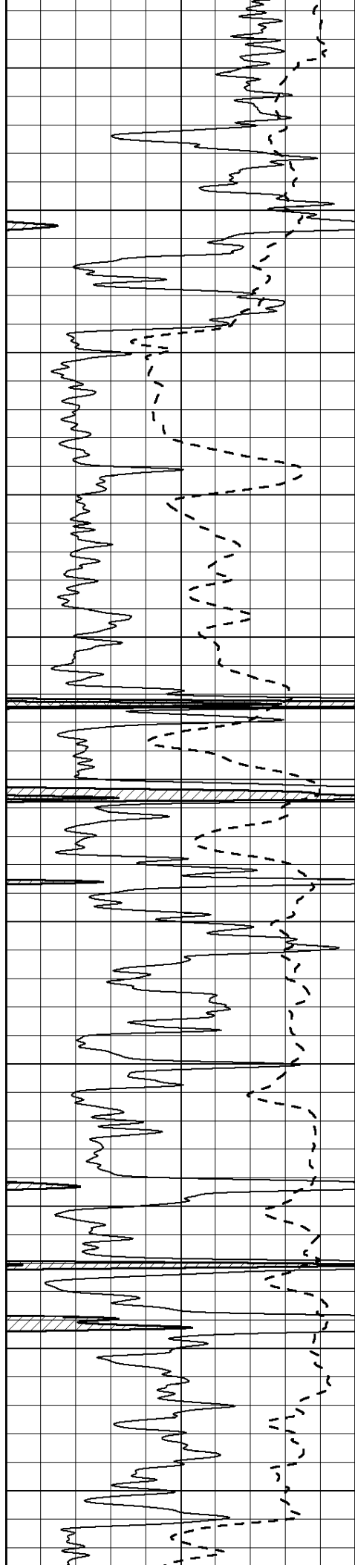
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4150

4200

4250





4300

4350

4400

4450

4500

4550

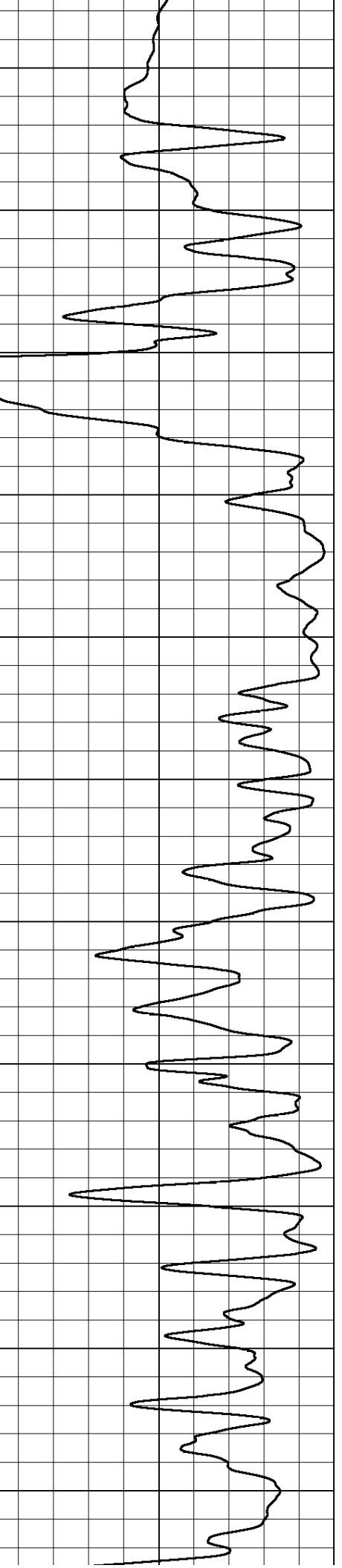
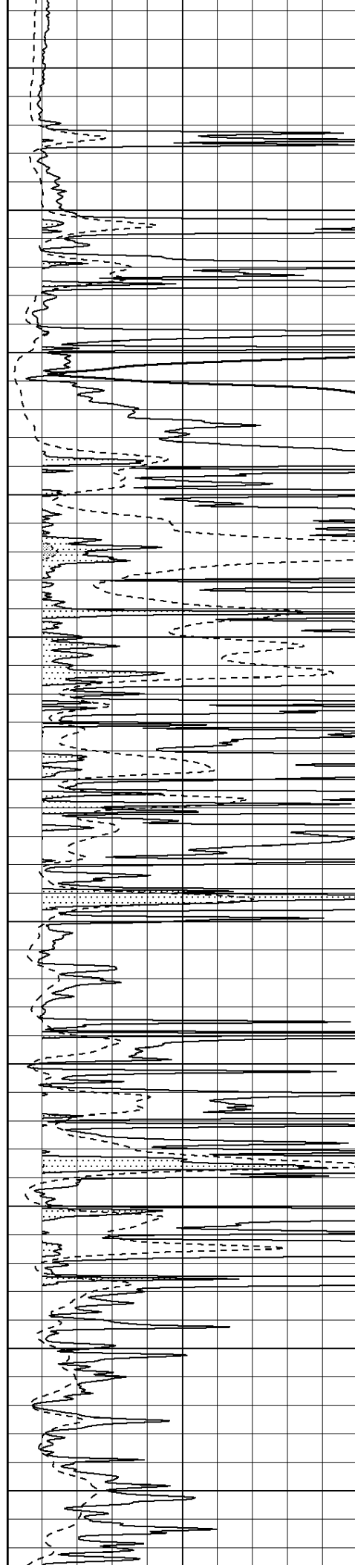
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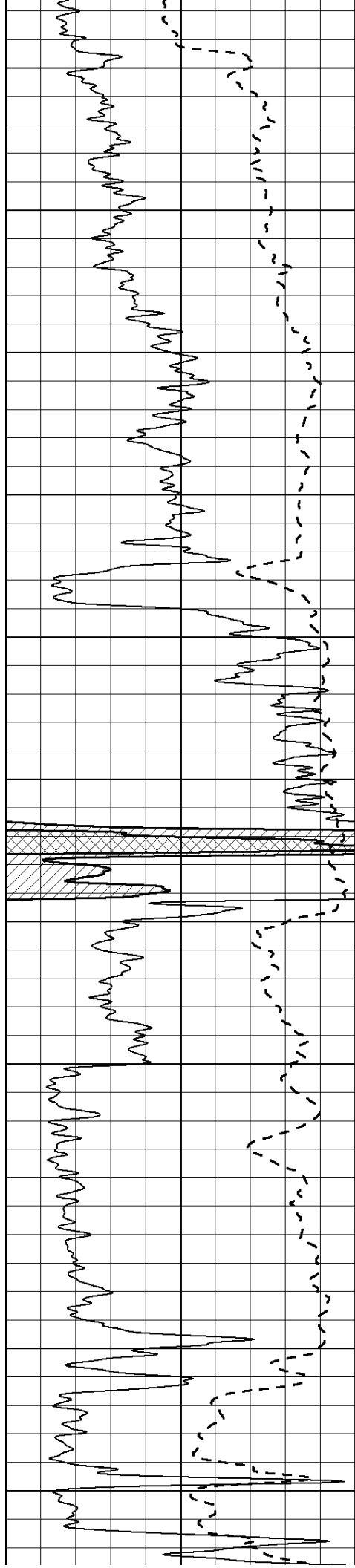
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4700

4750

4800





4850

4900

4950

5000

5050

5100

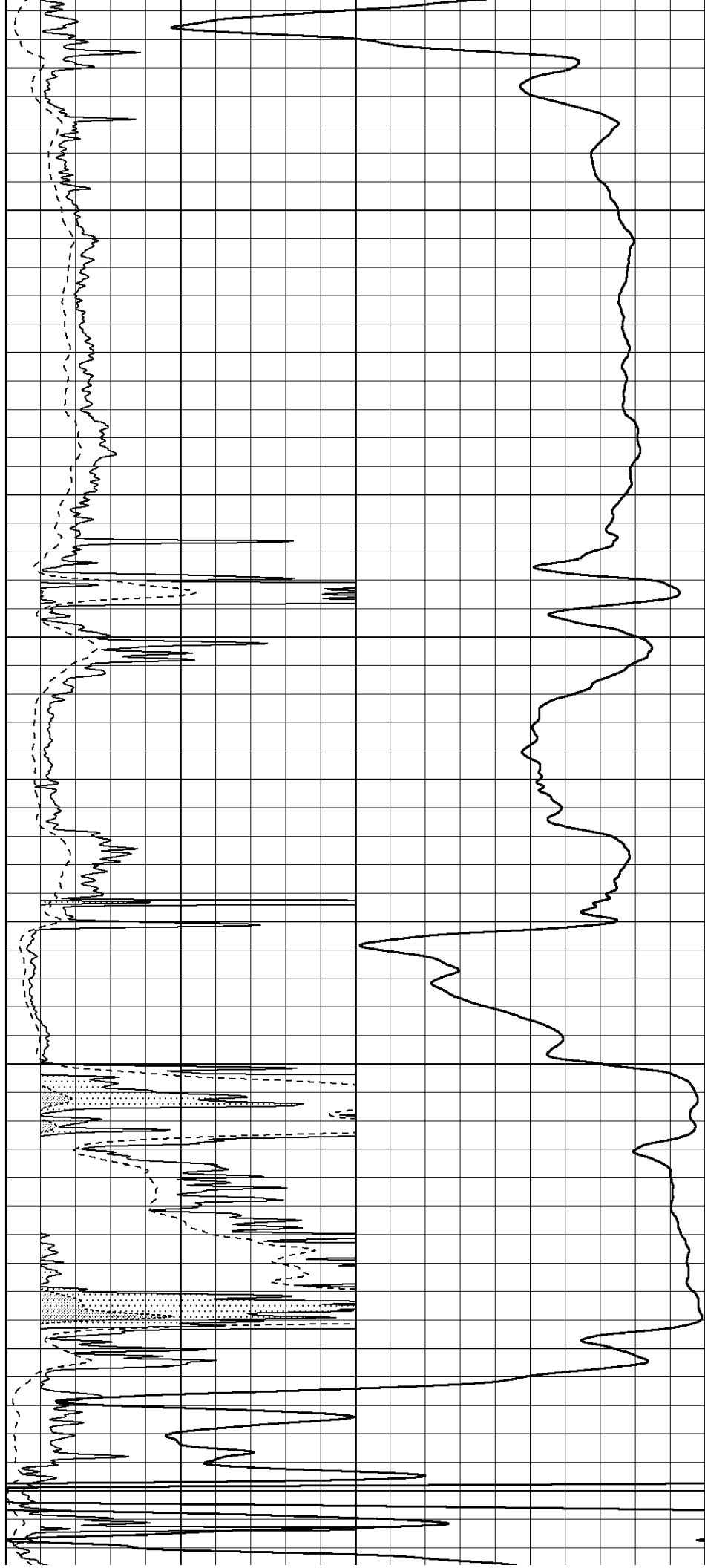
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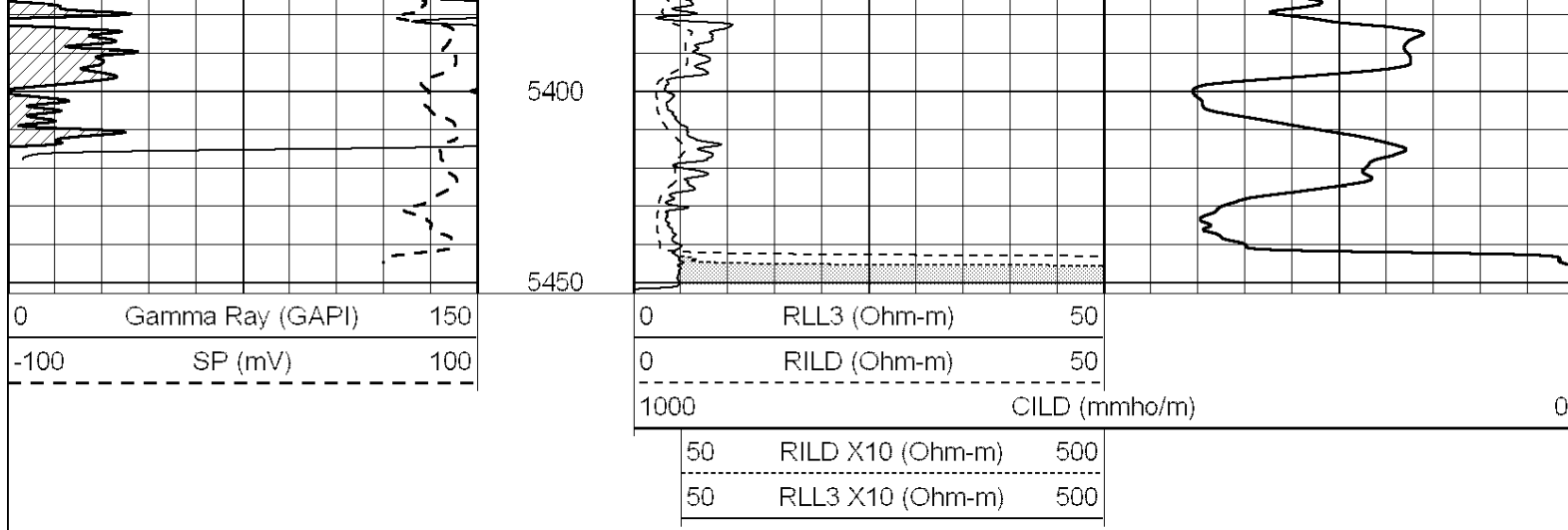
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5300

5350





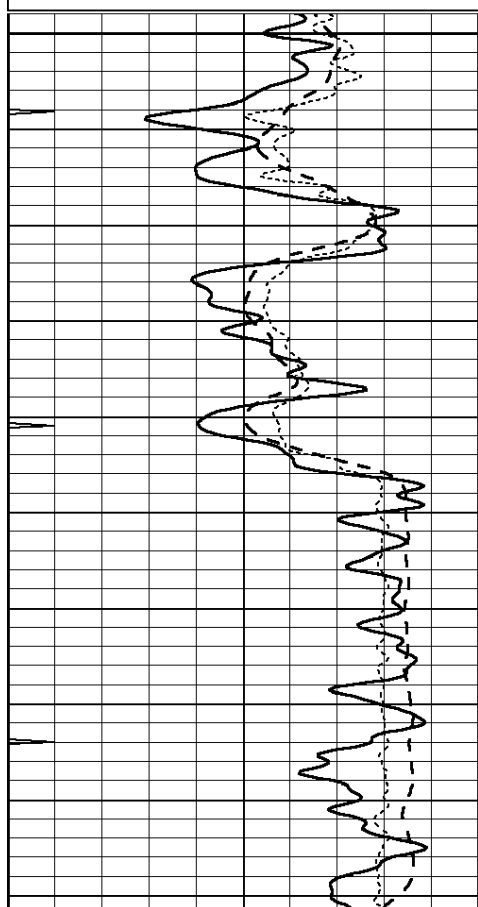
SUPERIOR
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MAIN SECTION

Database File: 005825pe.db
 Dataset Pathname: pass3.5
 Presentation Format: dil
 Dataset Creation: Tue Dec 07 21:48:19 2010 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240

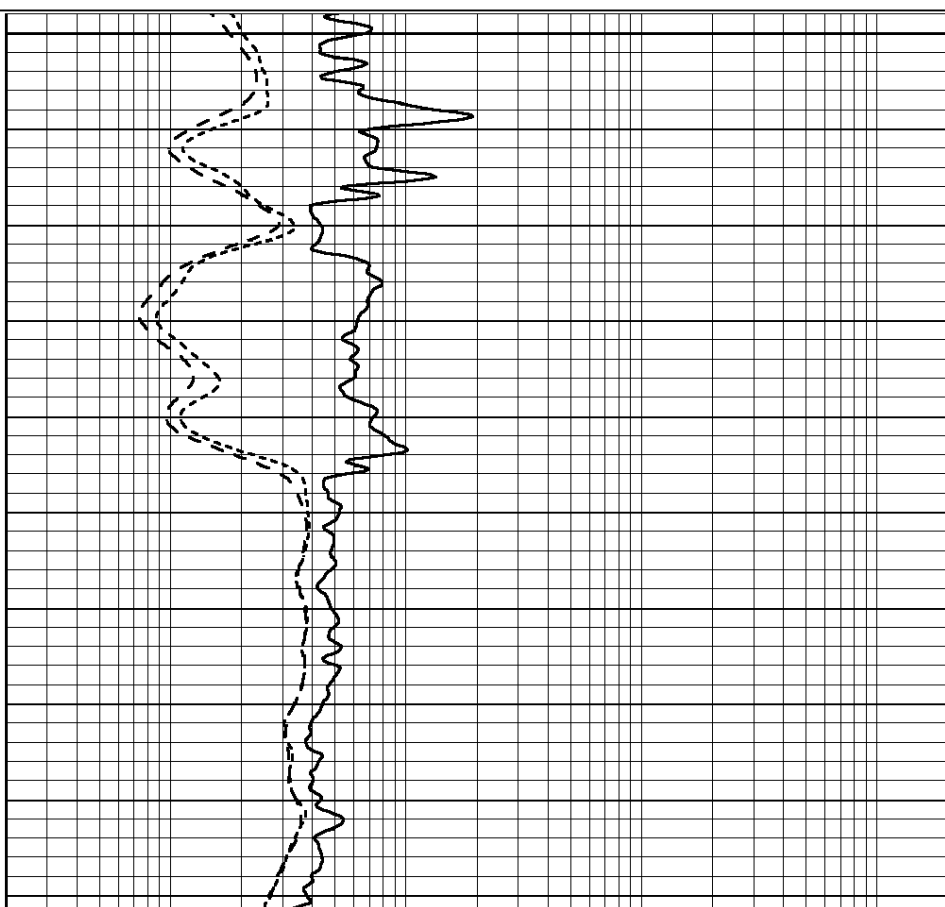
0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	10

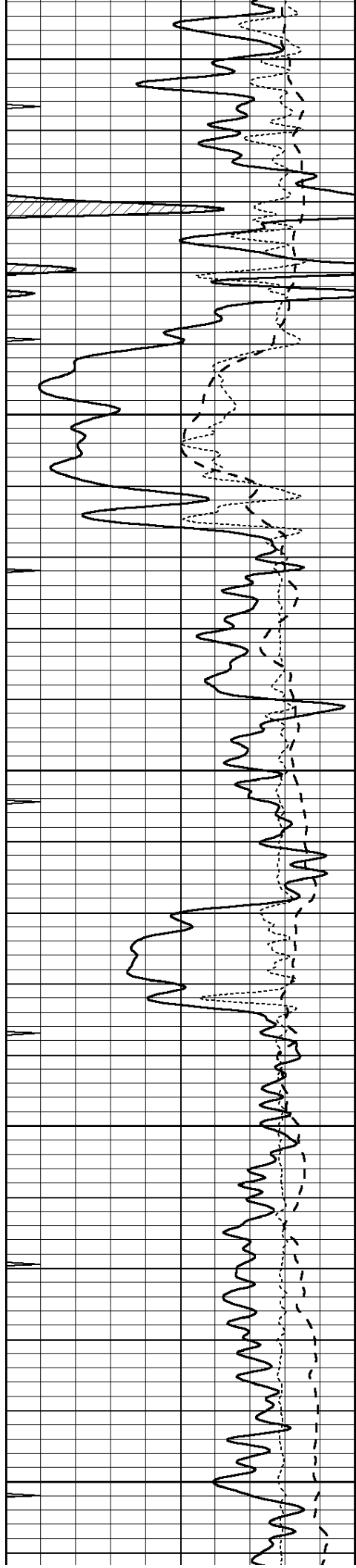
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000



3700

3750





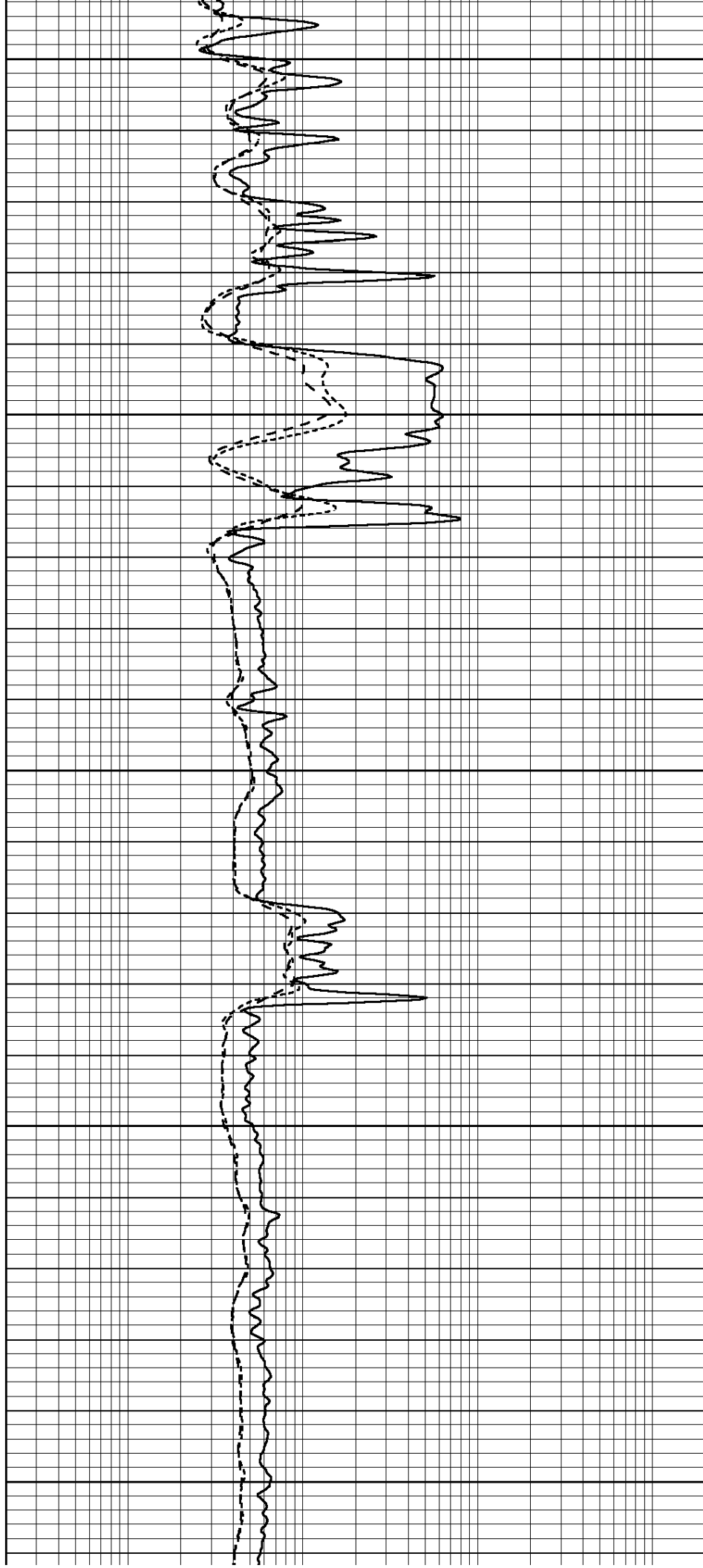
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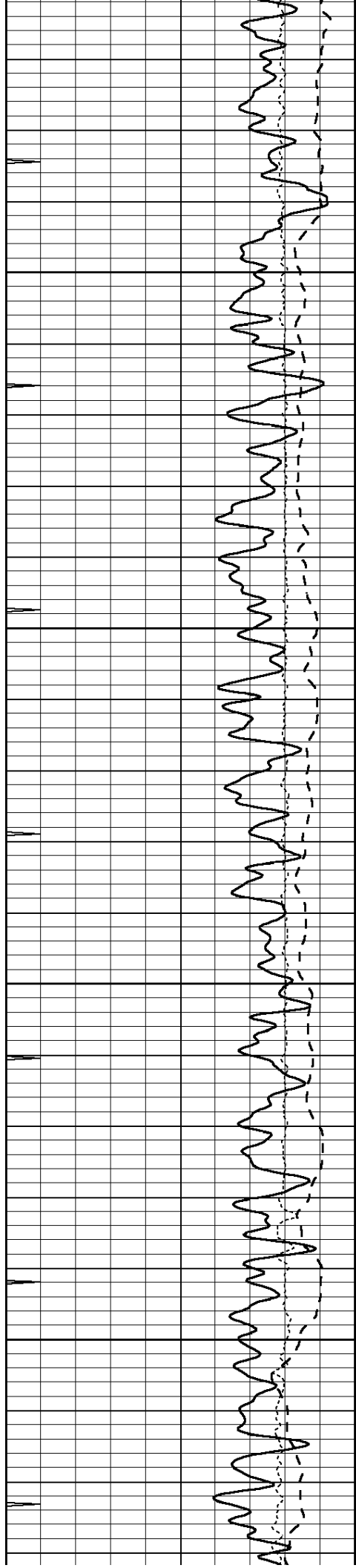
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3900

3950

4000



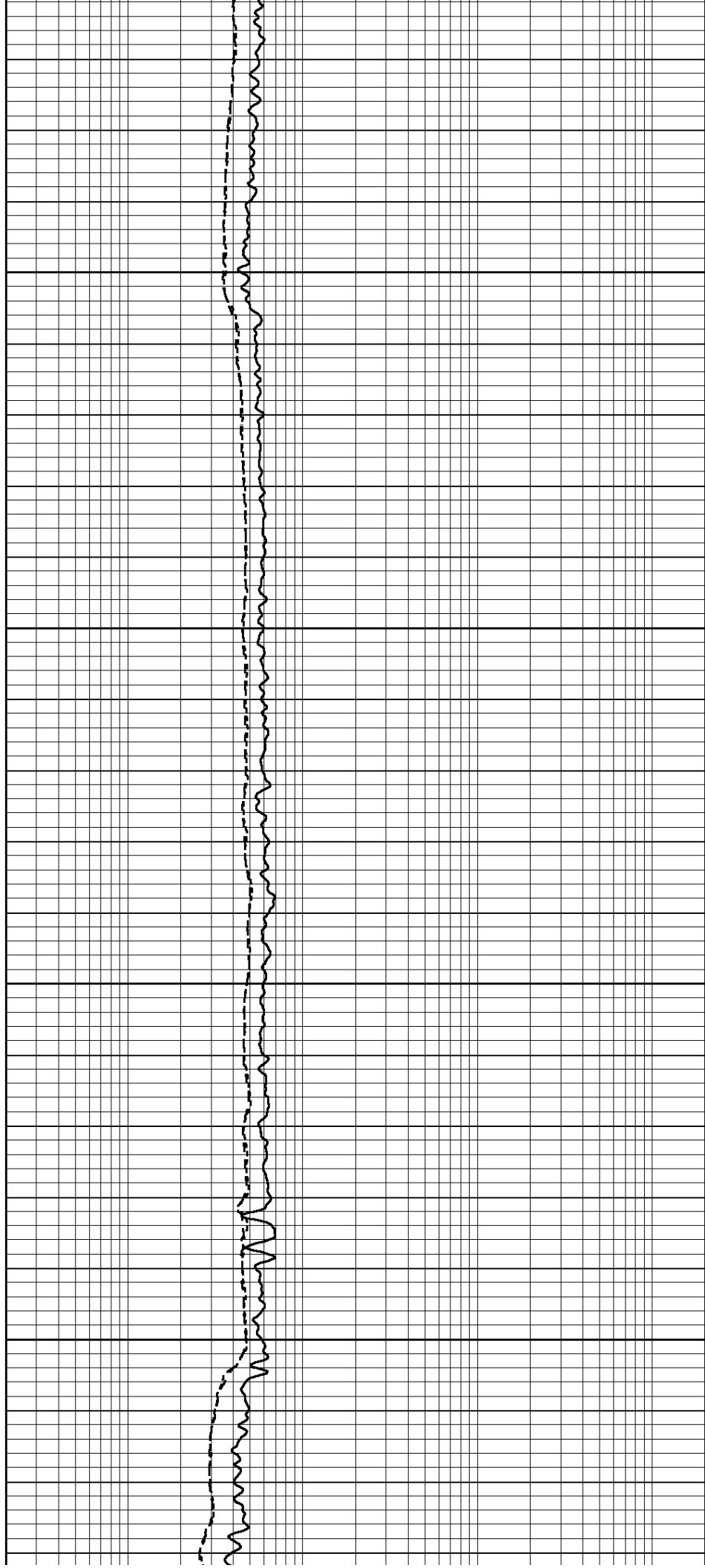


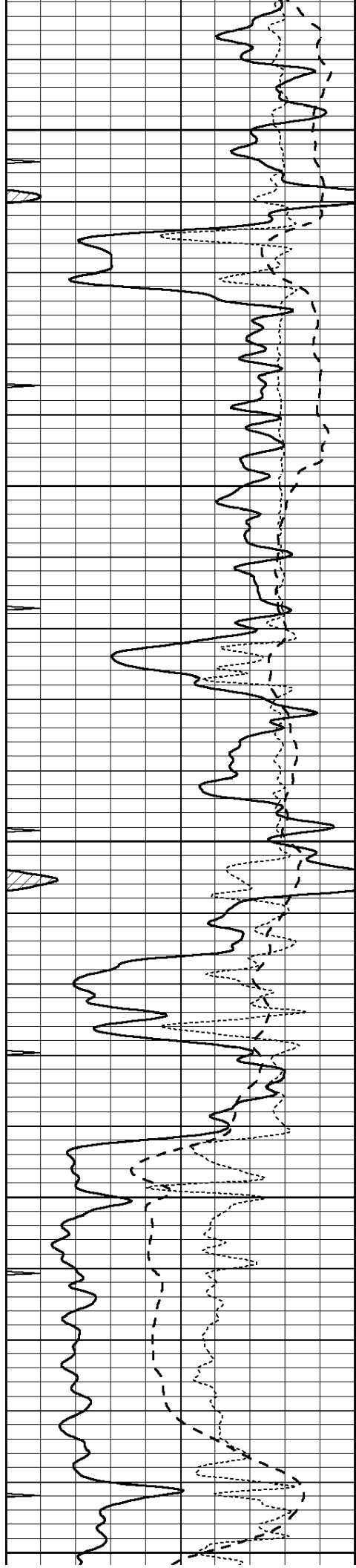
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4100

4150

4200





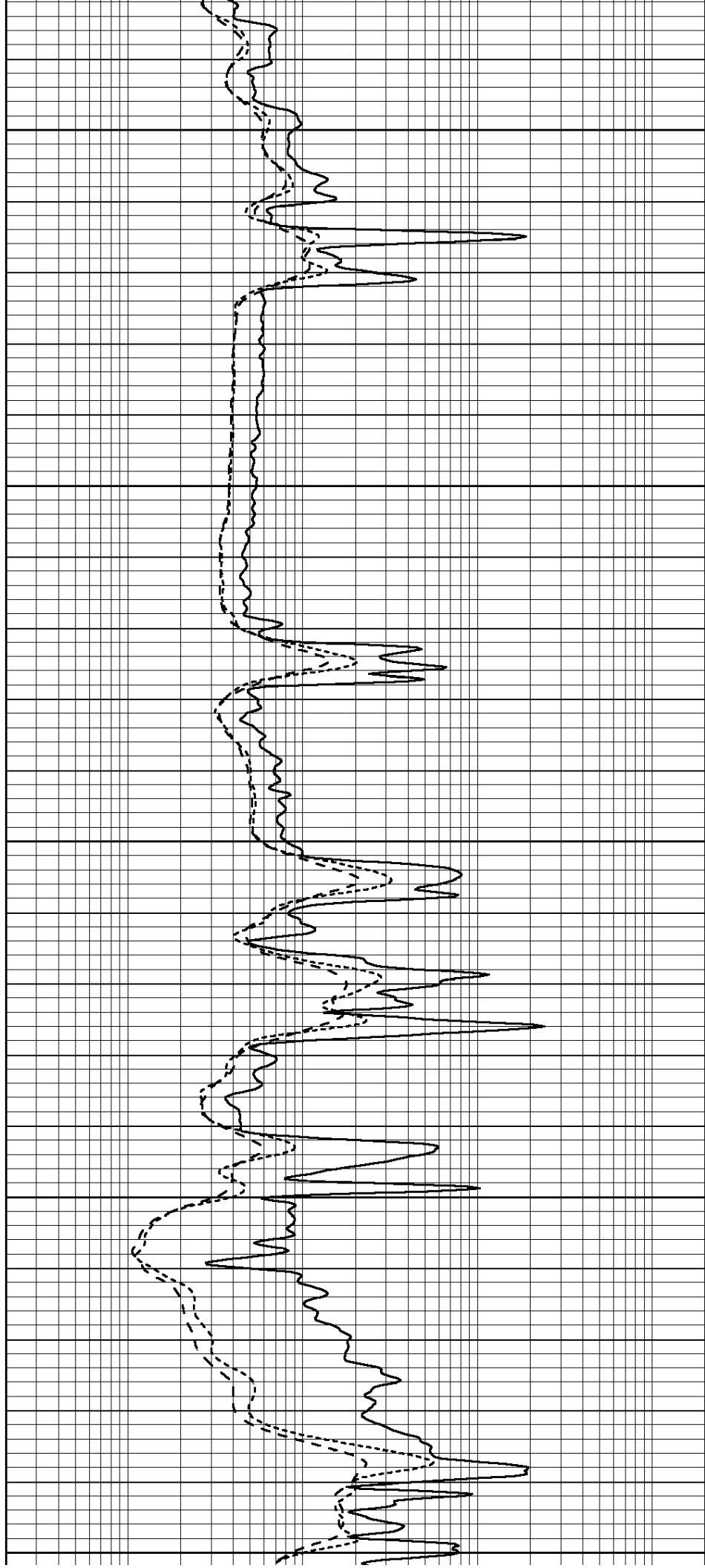
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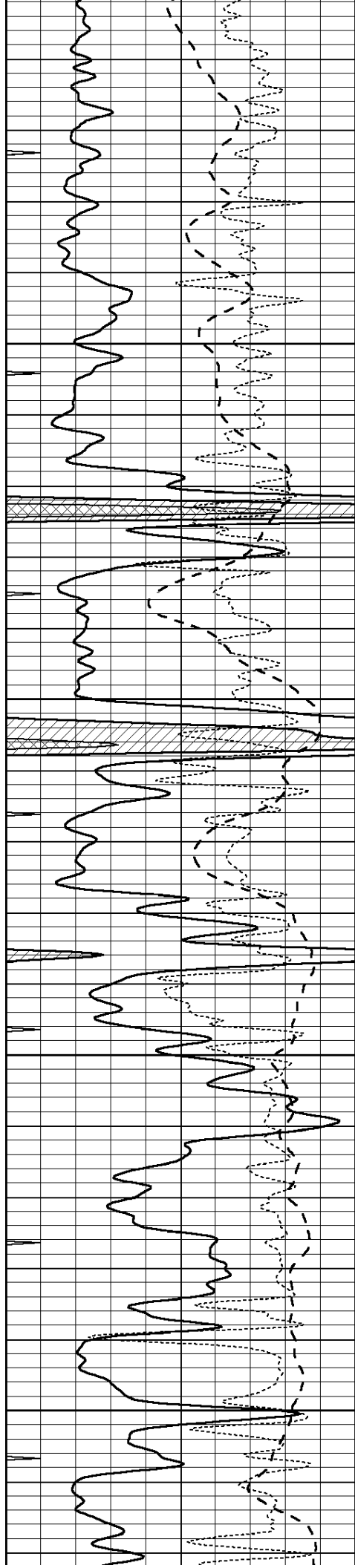
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4400

4450



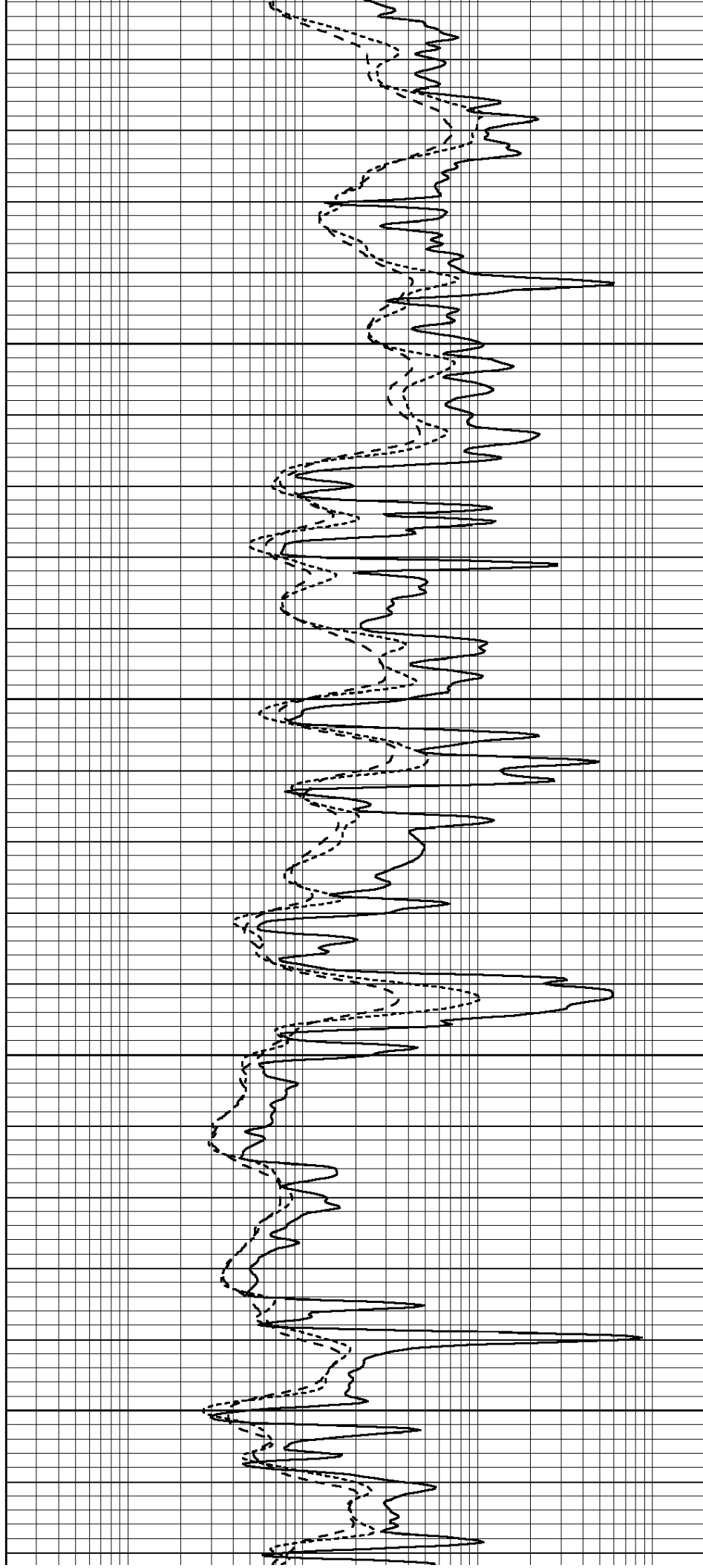


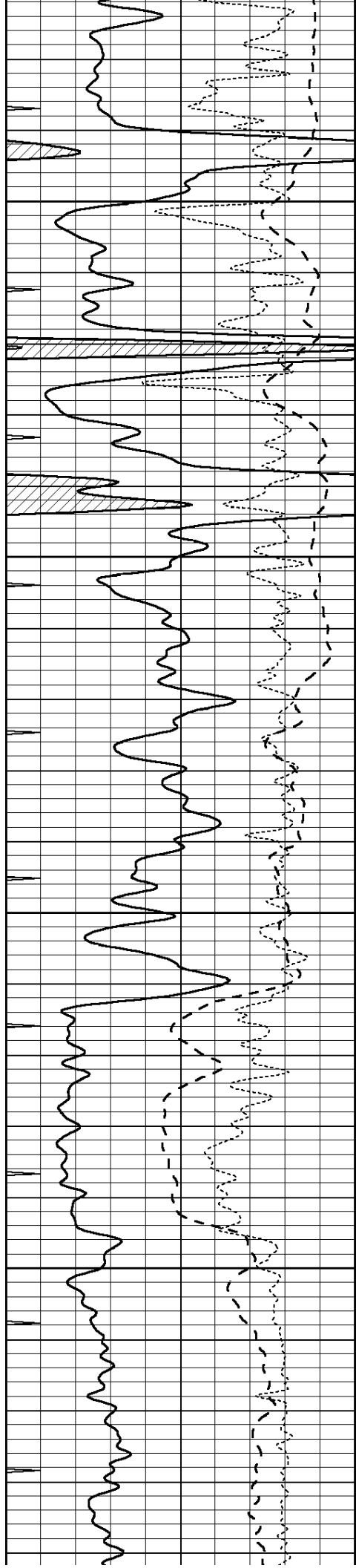
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4550

4600

4650



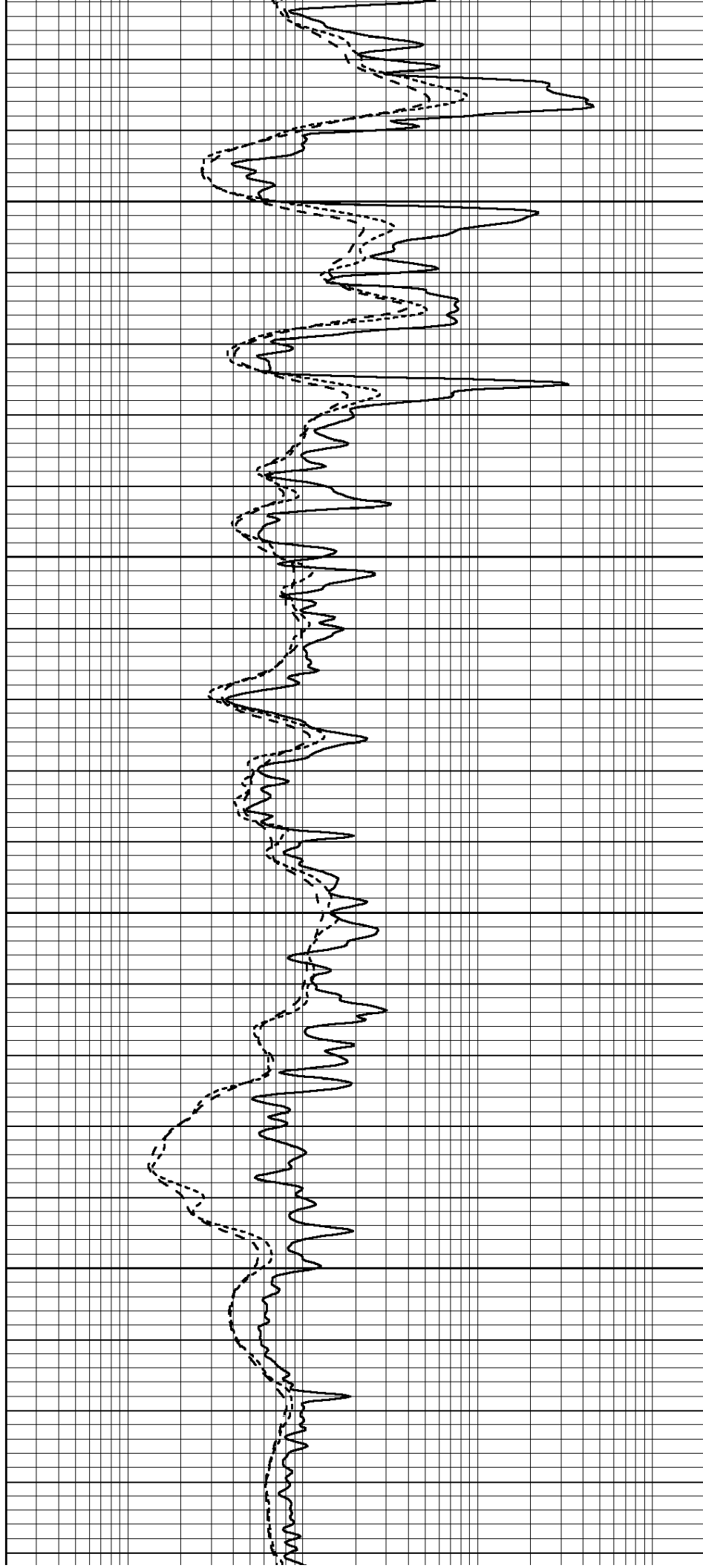


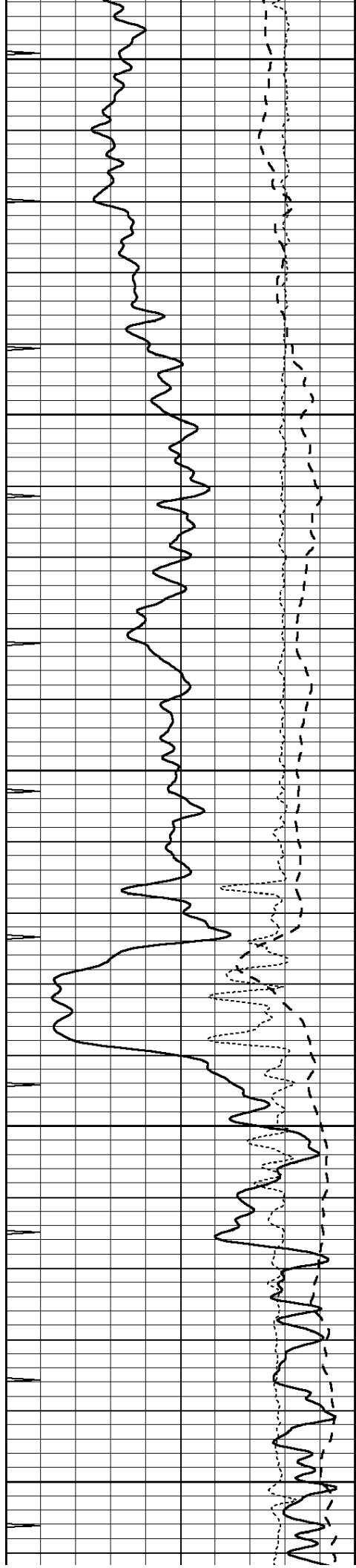
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4750

4800

4850





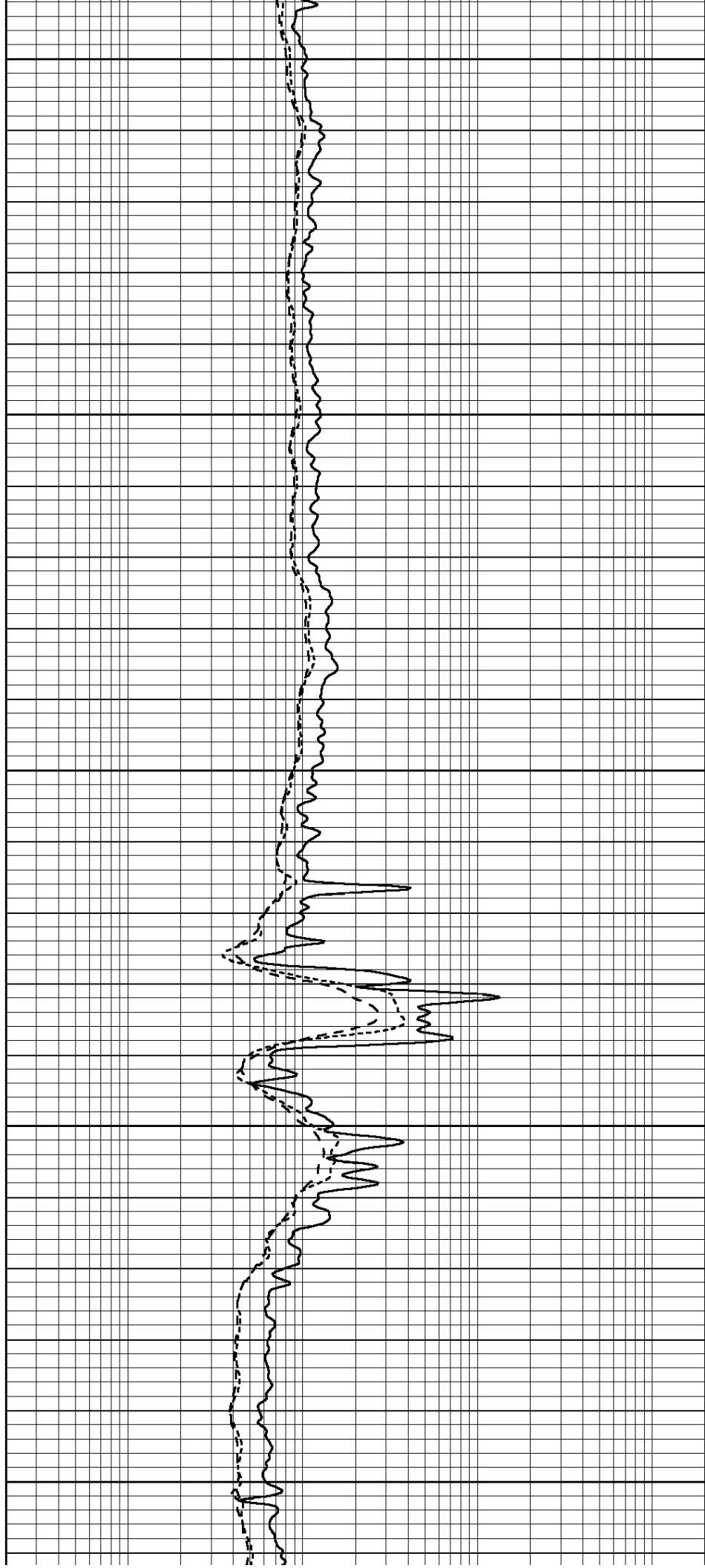
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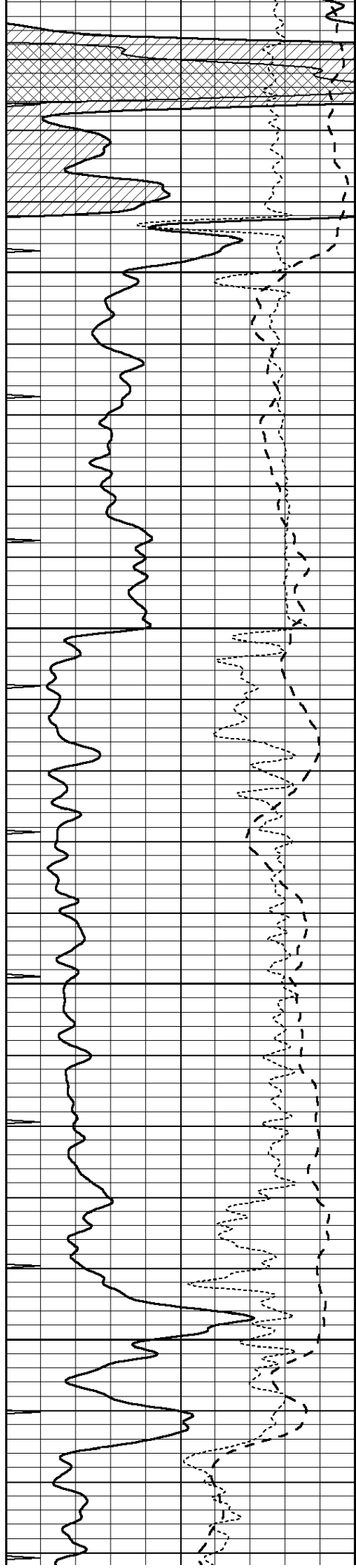
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5000

5050

5100



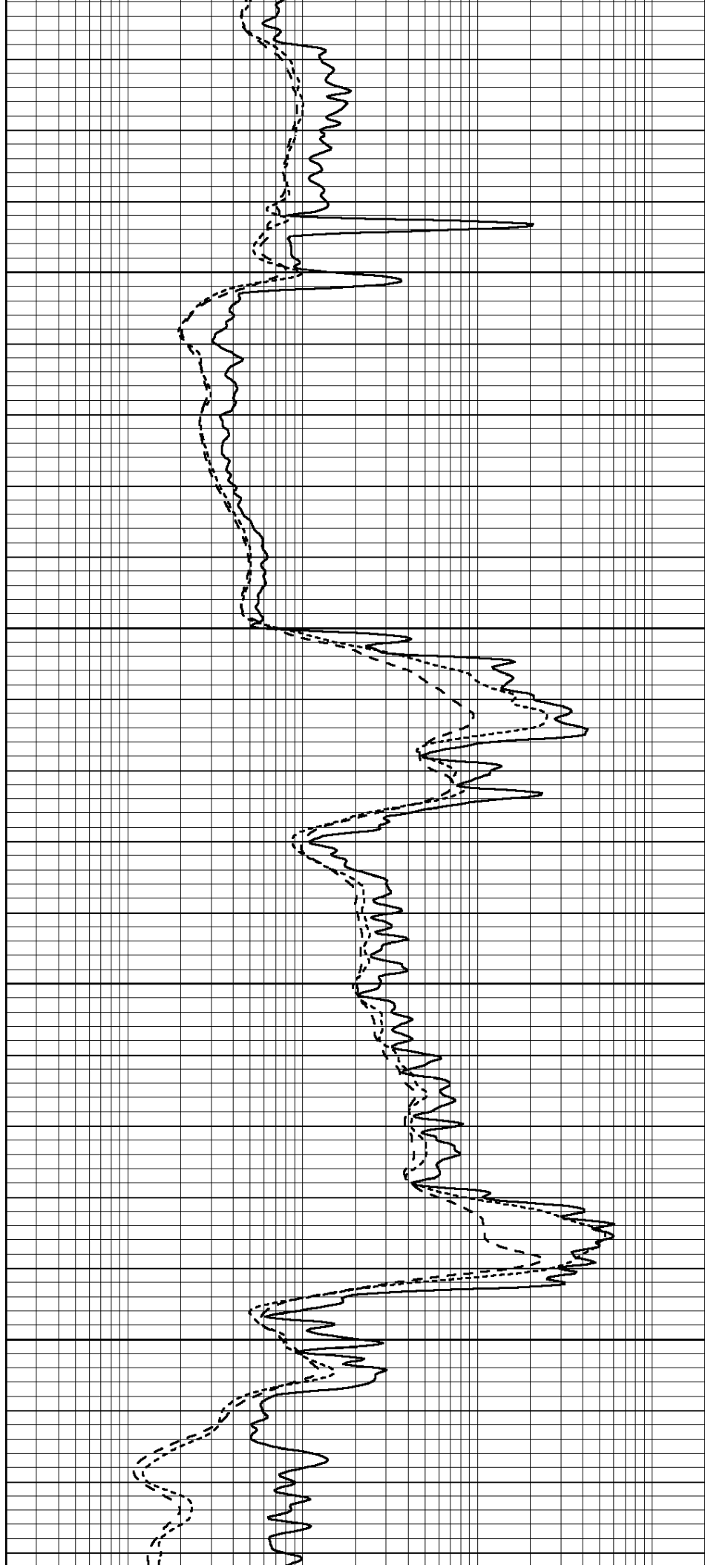


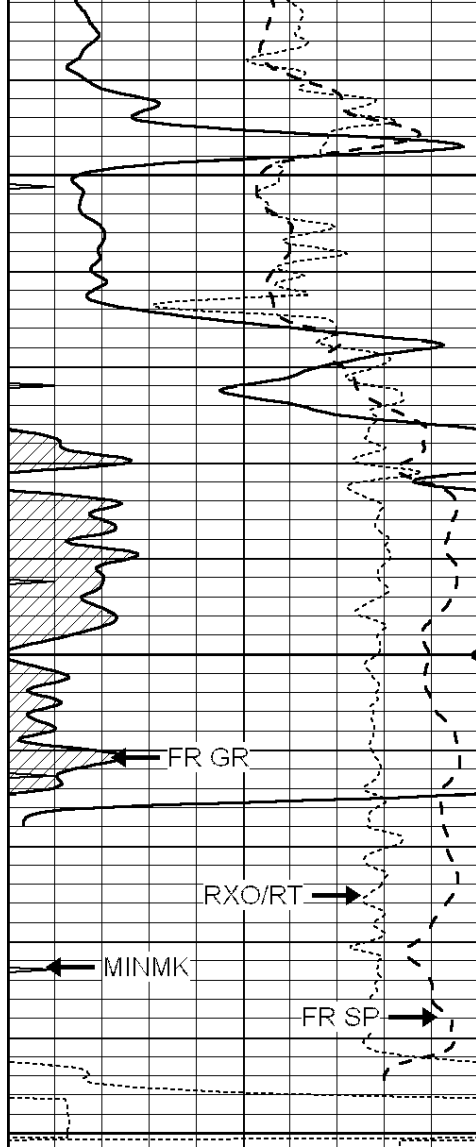
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5200

5250

5300



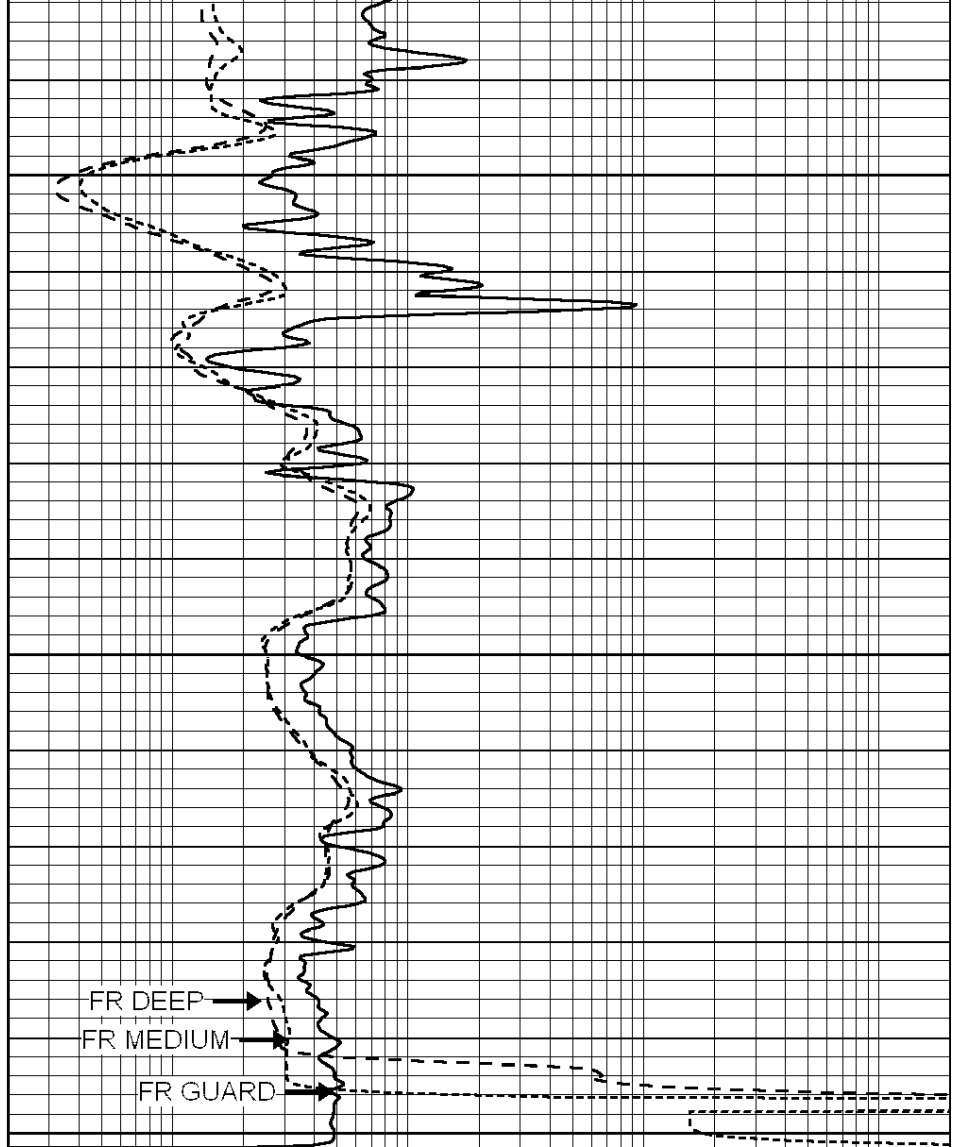


5350

5400

LTD 5448
5450

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	10



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



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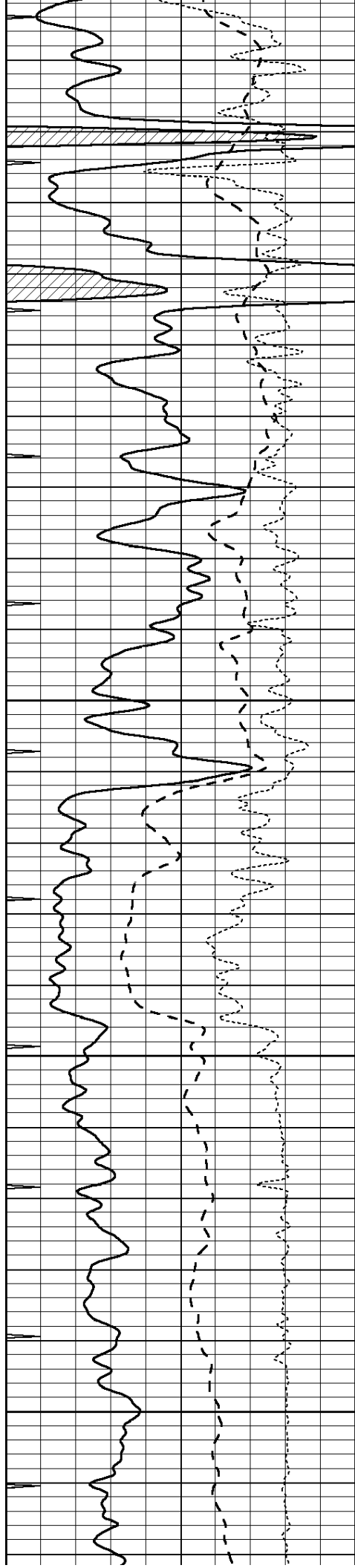
REPEAT SECTION

Database File: 005825pe.db
Dataset Pathname: pass2.7
Presentation Format: dil
Dataset Creation: Tue Dec 07 21:42:58 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	MINMK	10

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

4700

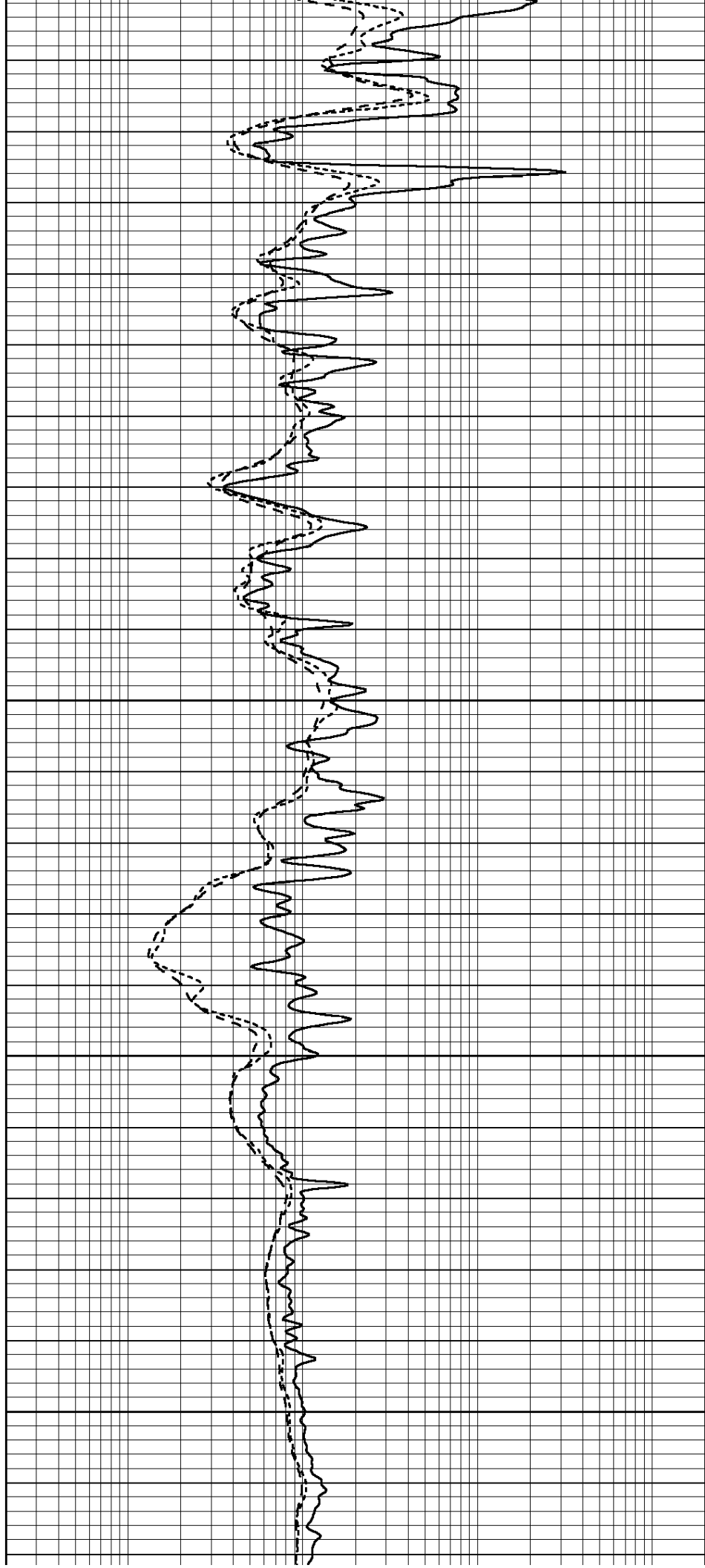


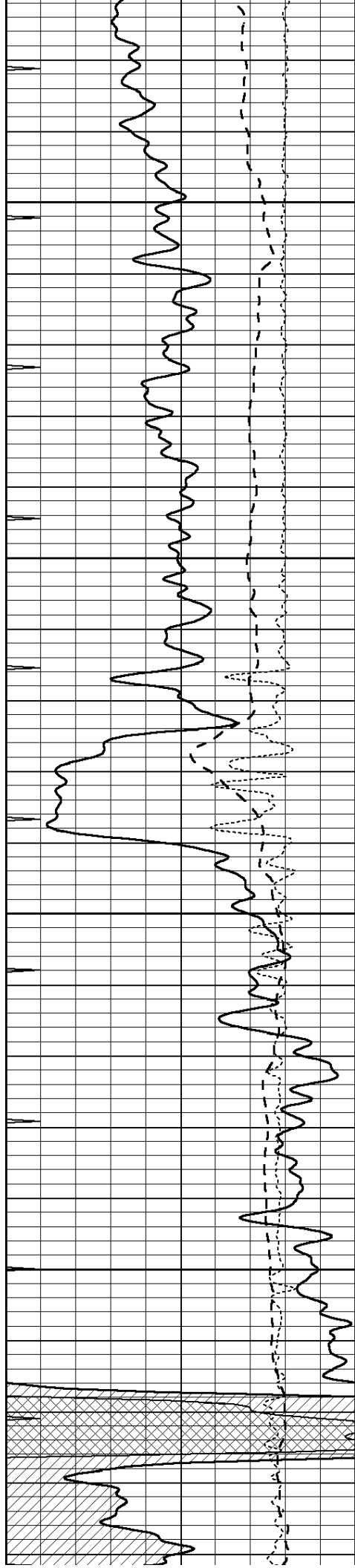
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4800

4850

4900



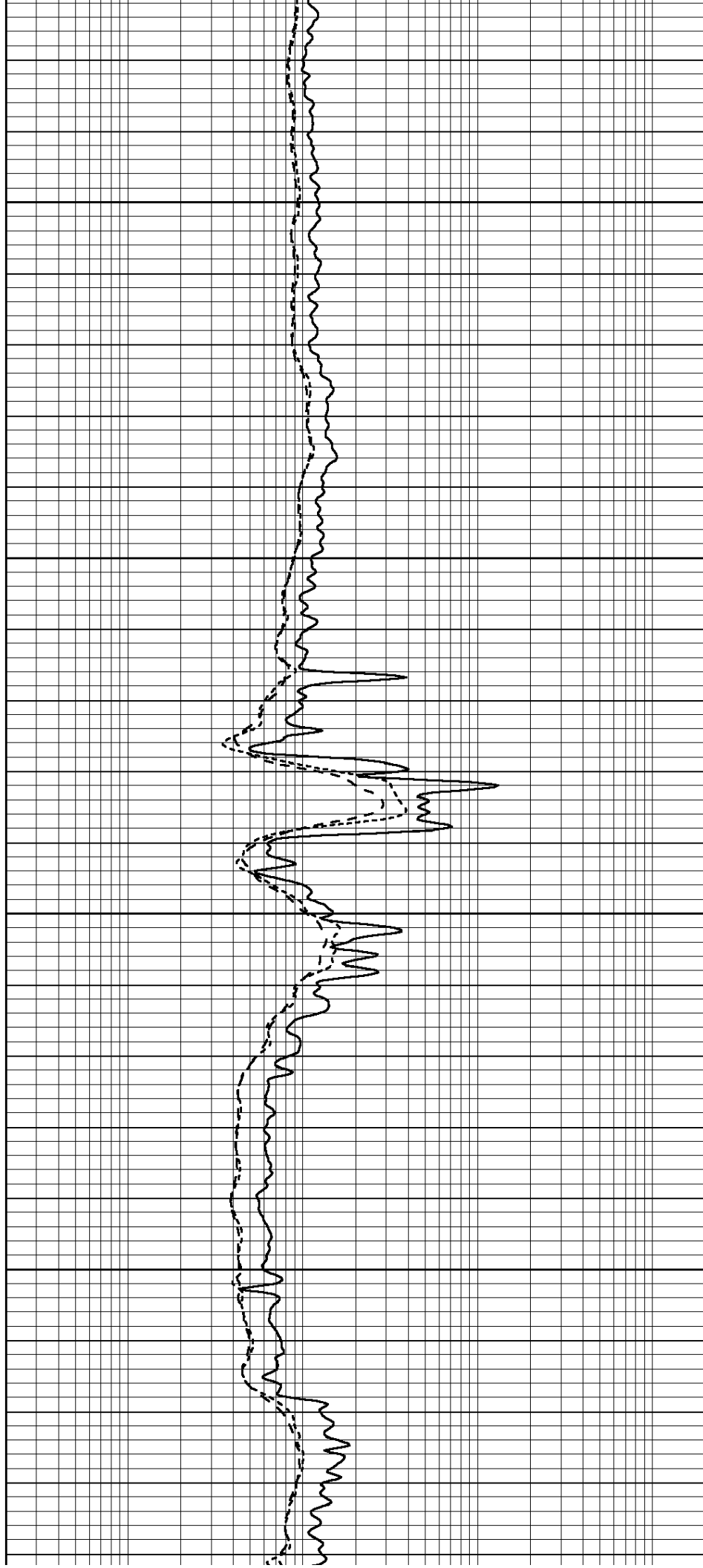


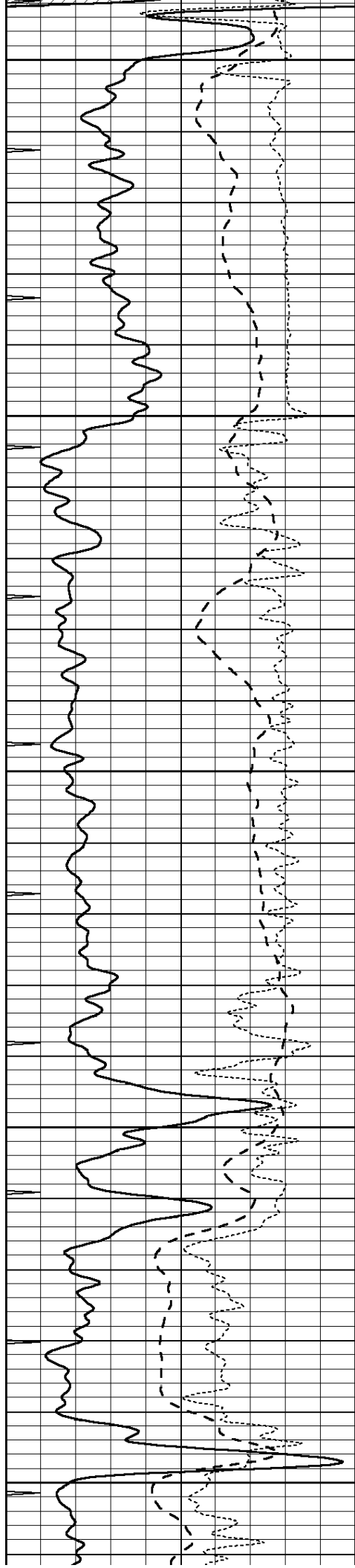
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5000

5050

5100





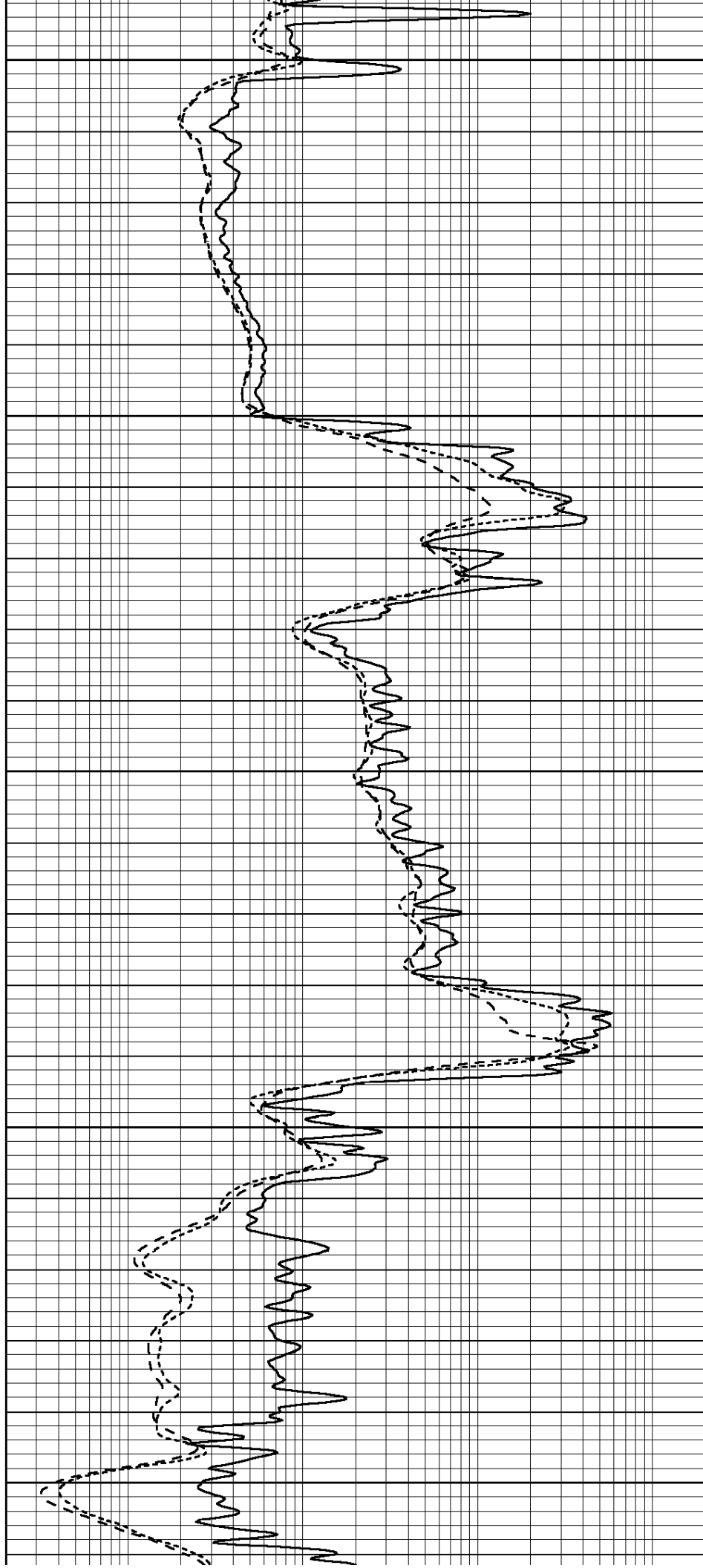
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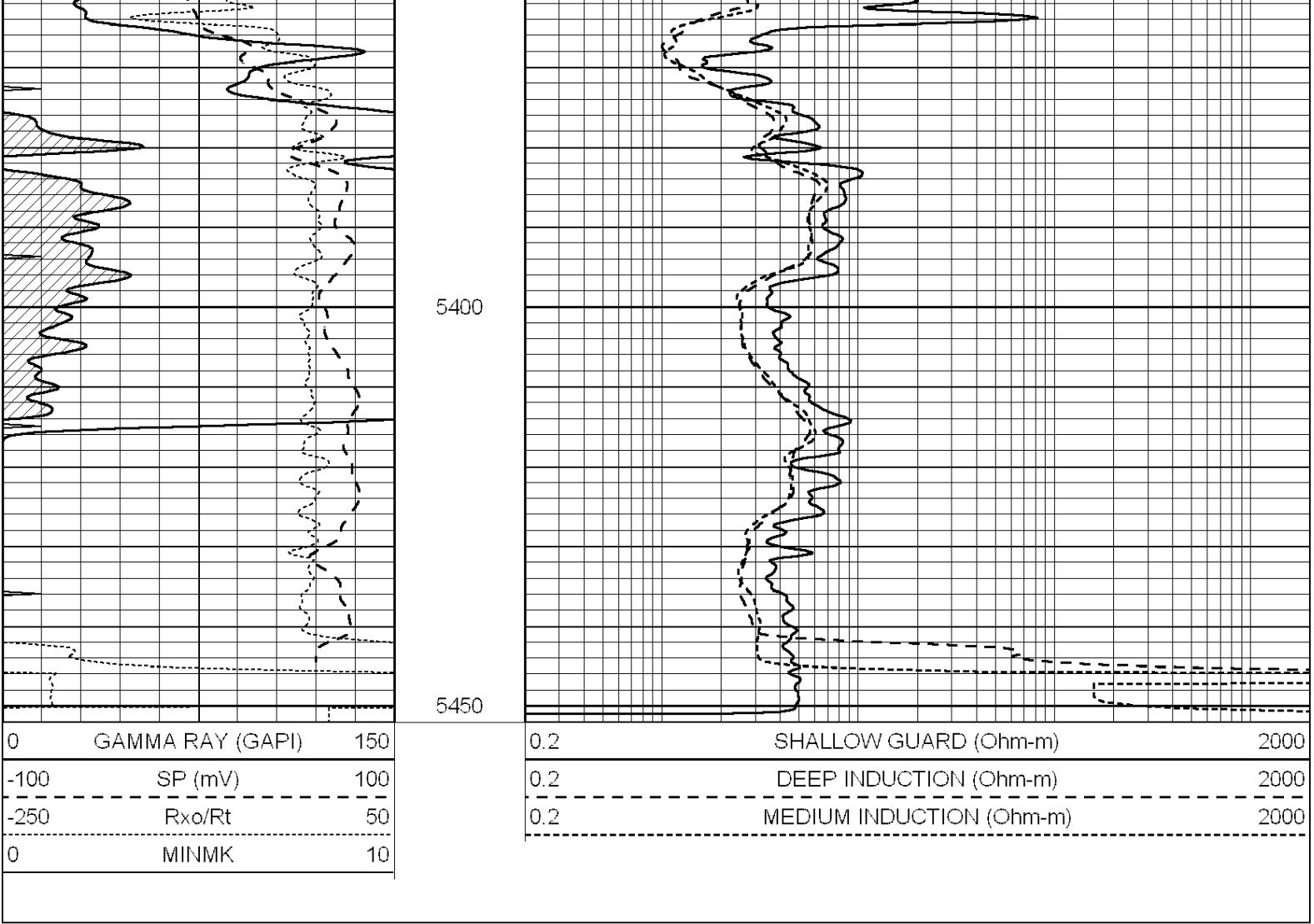
5200

5250

5300

5350





Calibration Report									
Database File:		005825pe.db							
Dataset Pathname:		pass3.5							
Dataset Creation:		Tue Dec 07 21:48:19 2010 by Calc Open-Cased 090629							
Dual Induction Calibration Report									
Serial-Model: Performed:				DIL6-GEAR Tue Dec 07 18:35:39 2010					
</									

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			
	Readings	Reference	
Low Ref	1.1	6.0	
High Ref	3.0	14.0	
	Gain: 4.2		Offset: 1.2

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:	Tue Dec 07 19:59:04 2010	
Calibrator Value:	200.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	189.0	cps
Sensitivity:	2.4000	GAPI/cps