



SUPERIOR
Hays,
Kansas

DUAL INDUCTION LOG

Company	BEREXCO, INC.	Location:	API # : 15-033-21557-0000	Other Services CDL/CNL/PE MEL
Well	GREGG #3-18			
Field	SHIMER			
County	COMANCHE			
State	KANSAS			
		SEC 18	TWP 33S	RGE 16W
		Permanent Datum	GROUND LEVEL	Elevation
		Log Measured From	KELLY BUSHING 9' A.G.L.	K.B. 1852
		Drilling Measured From	KELLY BUSHING	D.F. 1850
				G.L. 1843
Date	5/3/09			
Run Number	CNE			
Depth Driller	5150			
Depth Logger	5146			
Bottom Logged Interval	5144			
Top Log Interval	00			
Casing Driller	8 5/8"@1248'			
Casing Logger	1244			
Bit Size	7 7/8			
Type Fluid in Hole	CHEMICAL MUD			
Density / Viscosity	9.4/55			
pH / Fluid Loss	10.0/9.6			
Source of Sample	FLOWLINE			
Rm @ Meas. Temp	.700@63F			
Rmf @ Meas. Temp	.525@63F			
Rmc @ Meas. Temp	.840@63F			
Source of Rmf / Rmc	MEASUREMENT			
Rm @ BHT	.350@126F			
Time Circulation Stopped	3 HOURS			
Time Logger on Bottom	10:45 A.M.			
Maximum Recorded Temperature	126F			
Equipment Number	0836			
Location	HAYS, KANSAS			
Recorded By	JEFF LUEBBERS			
Witnessed By	JIM HICKMAN			

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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
COLDWATER, KS. 9E. ON HWY 160 TO (RD. #22), 4S. TO STOP SIGN, 5 E. & S. & E. (ON AVE. L),
3/4S. INTO AT WHITE MACHINE SHED



SUPERIOR
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MAIN SECTION

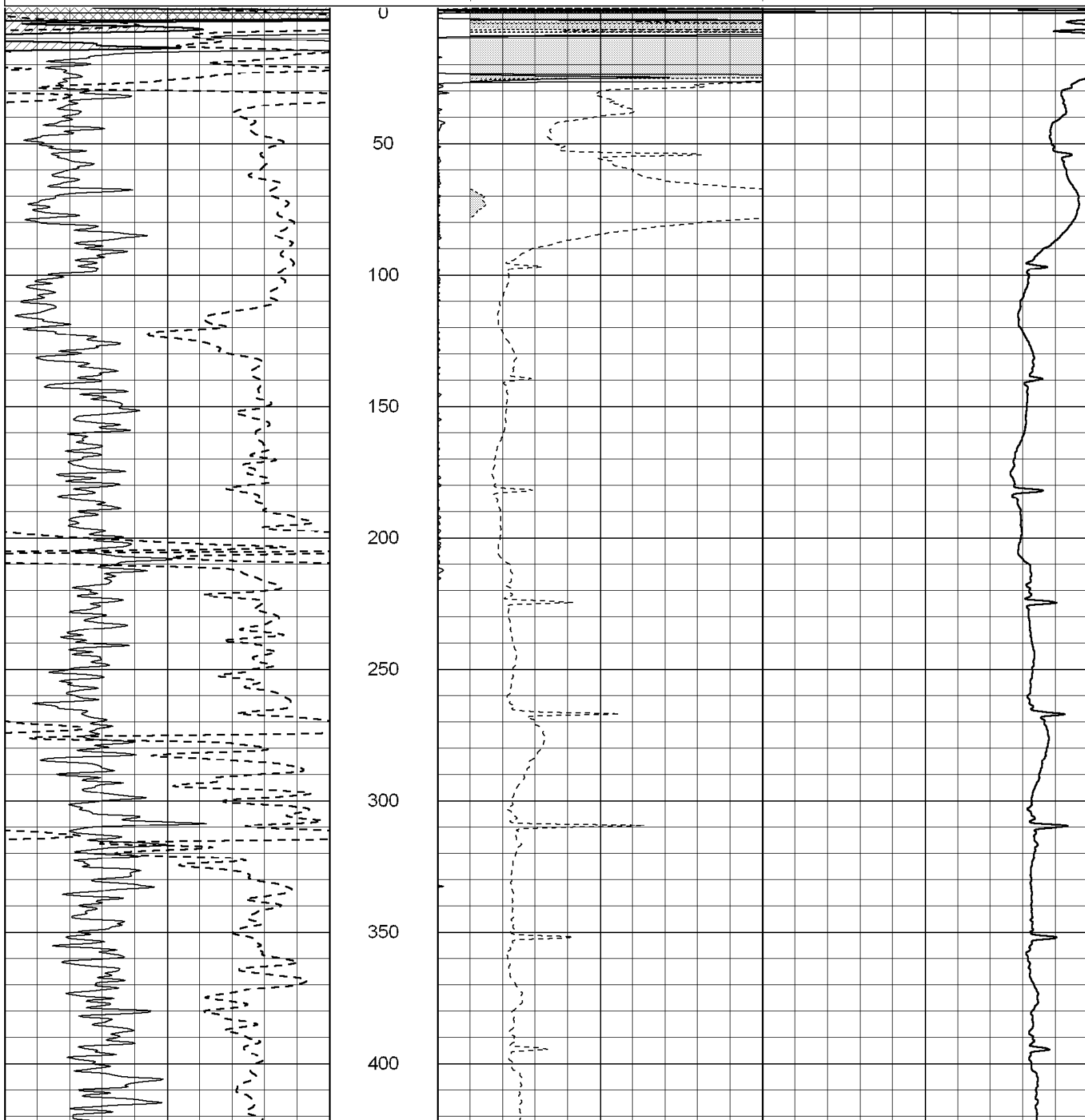
Database File: 003262pe.db
Dataset Pathname: pass3.7
Presentation Format: dil2
Dataset Creation: Sun May 03 13:13:25 2009
Charted by: Depth in Feet scaled 1:600

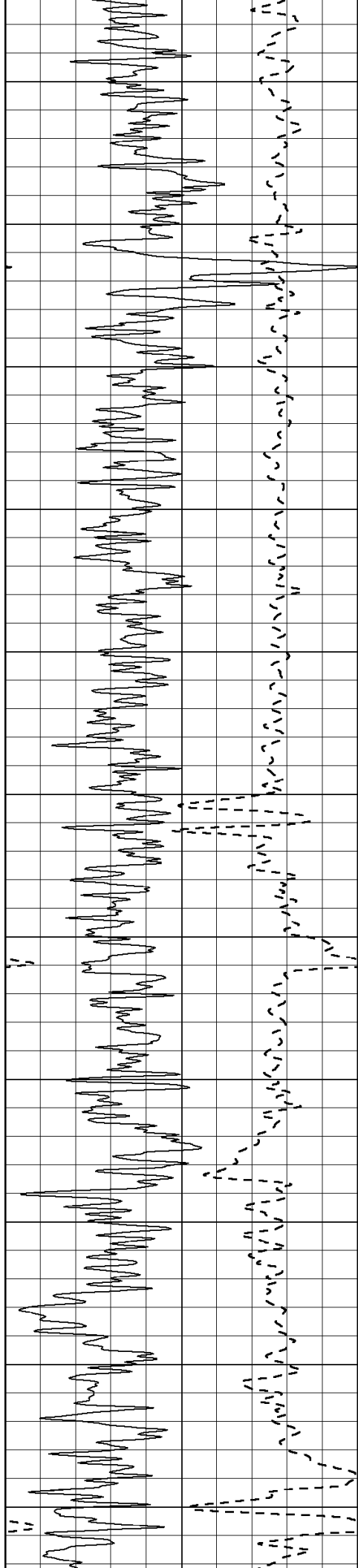
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-100 SP (mV) 100

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





450

500

550

600

650

700

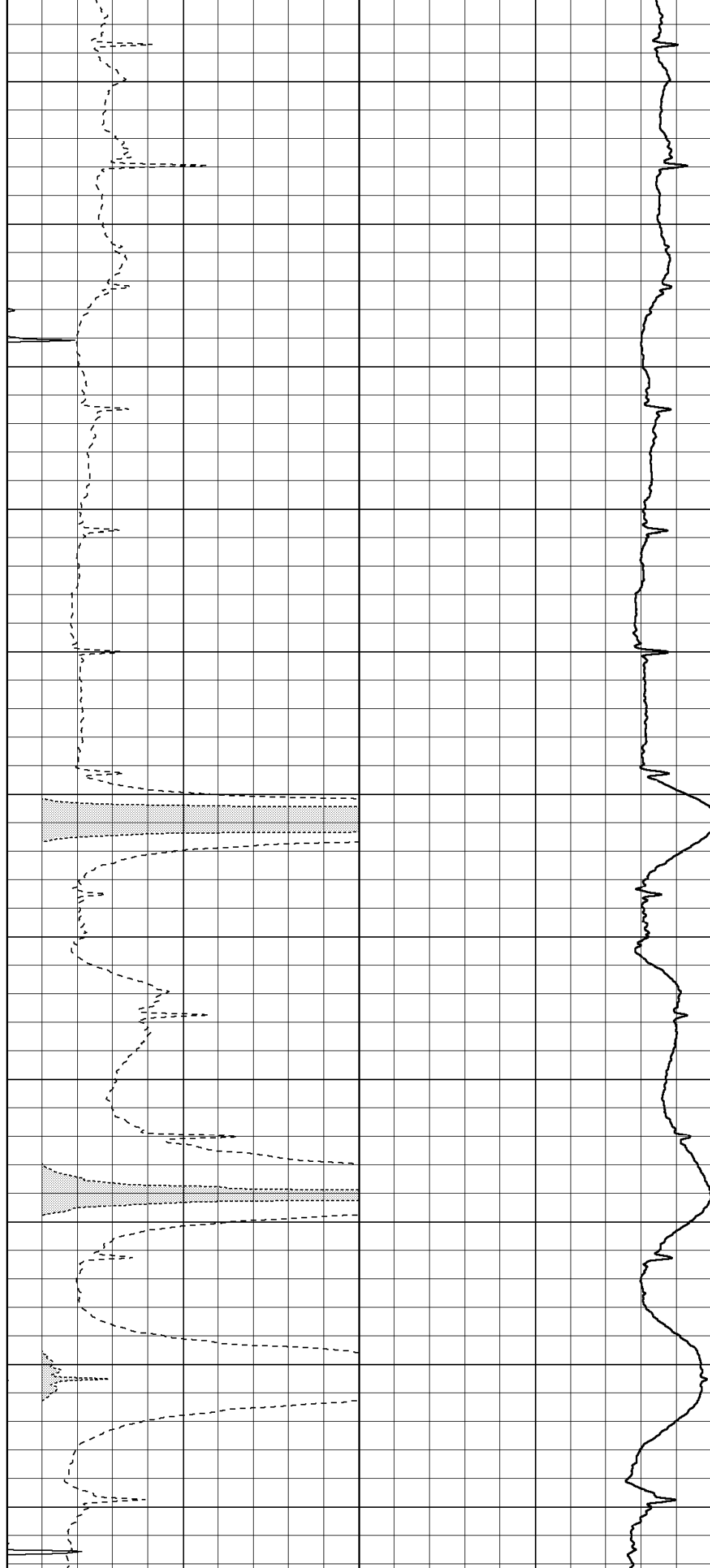
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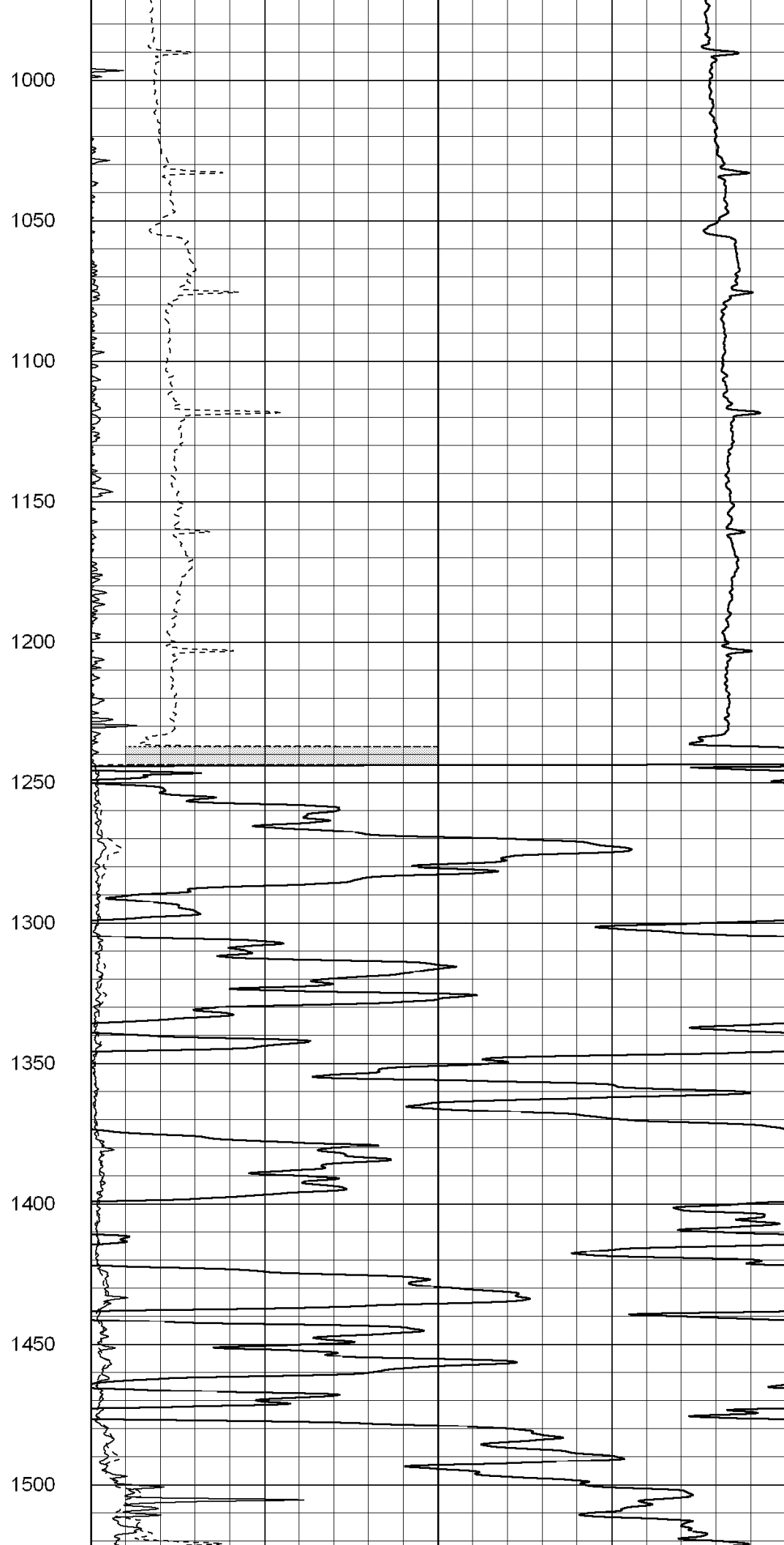
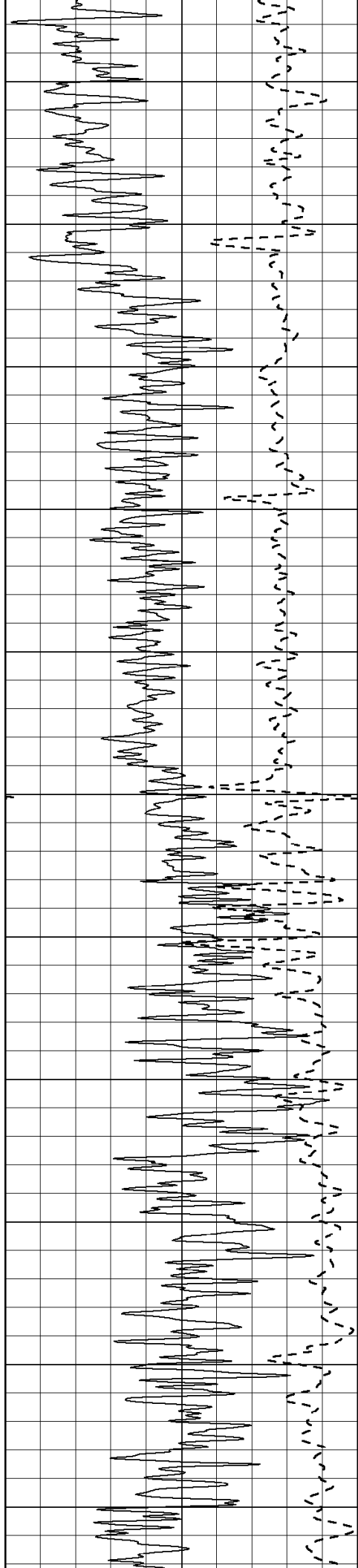
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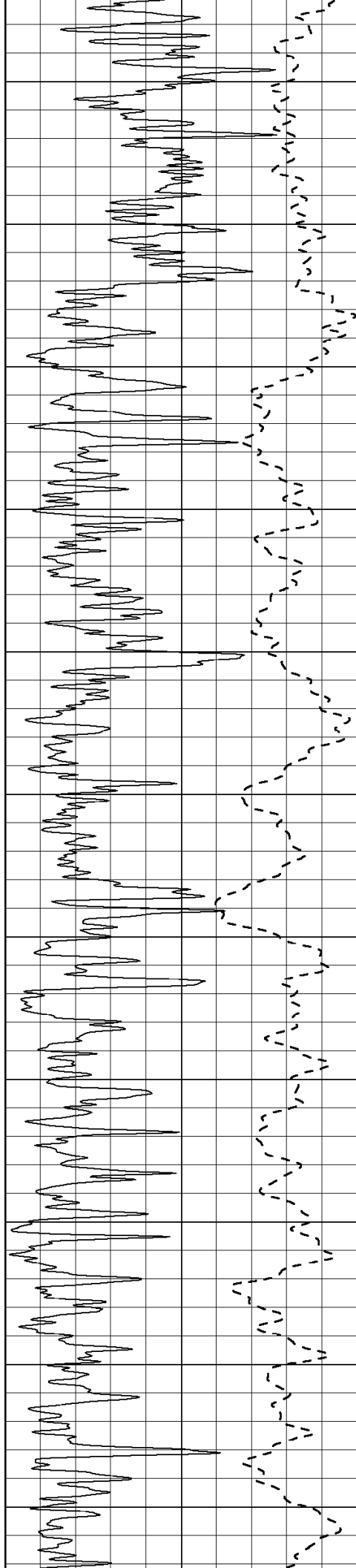
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900

950







1550

1600

1650

1700

1750

1800

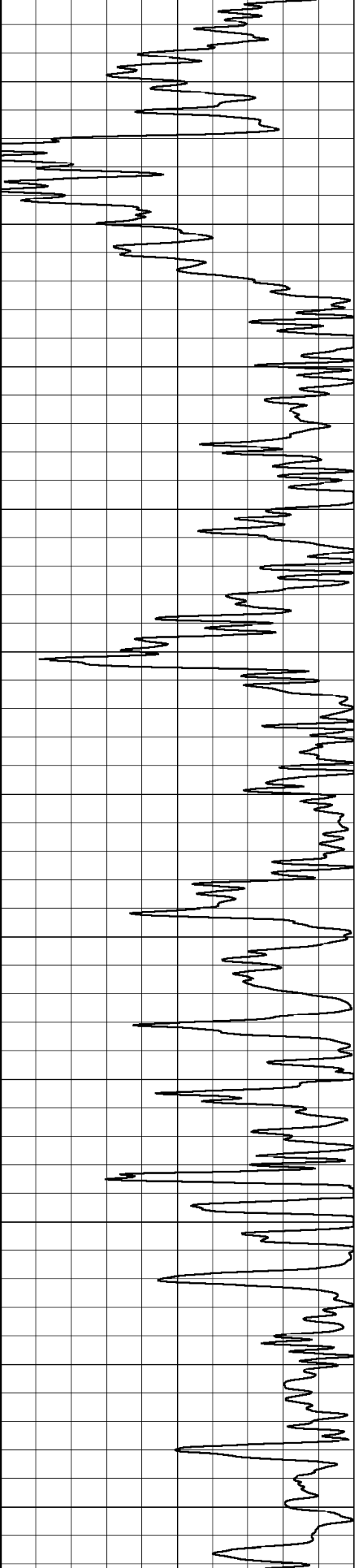
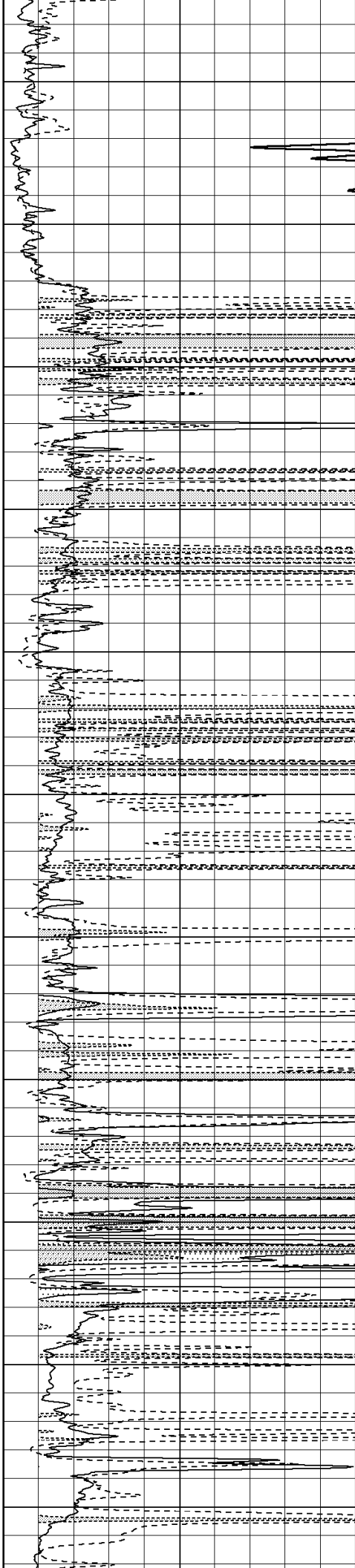
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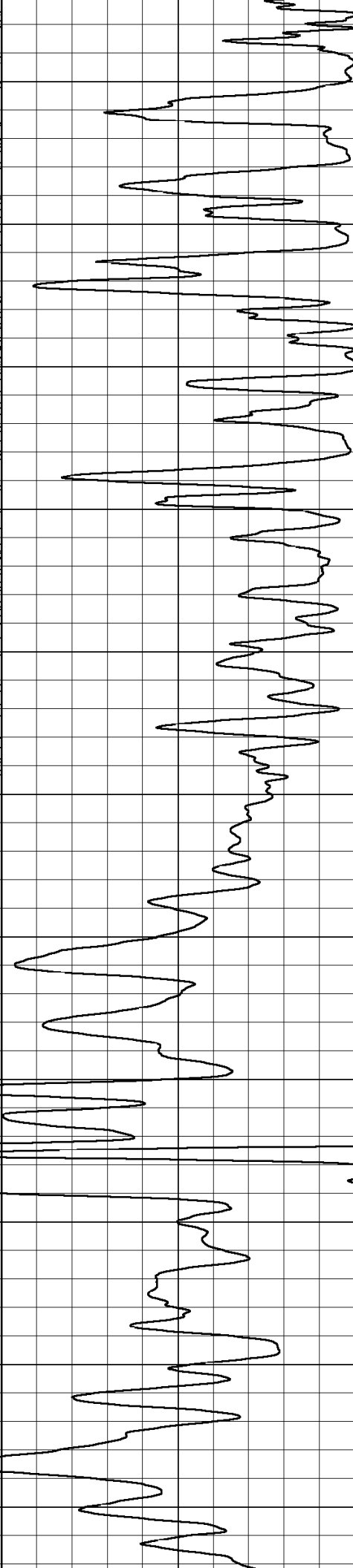
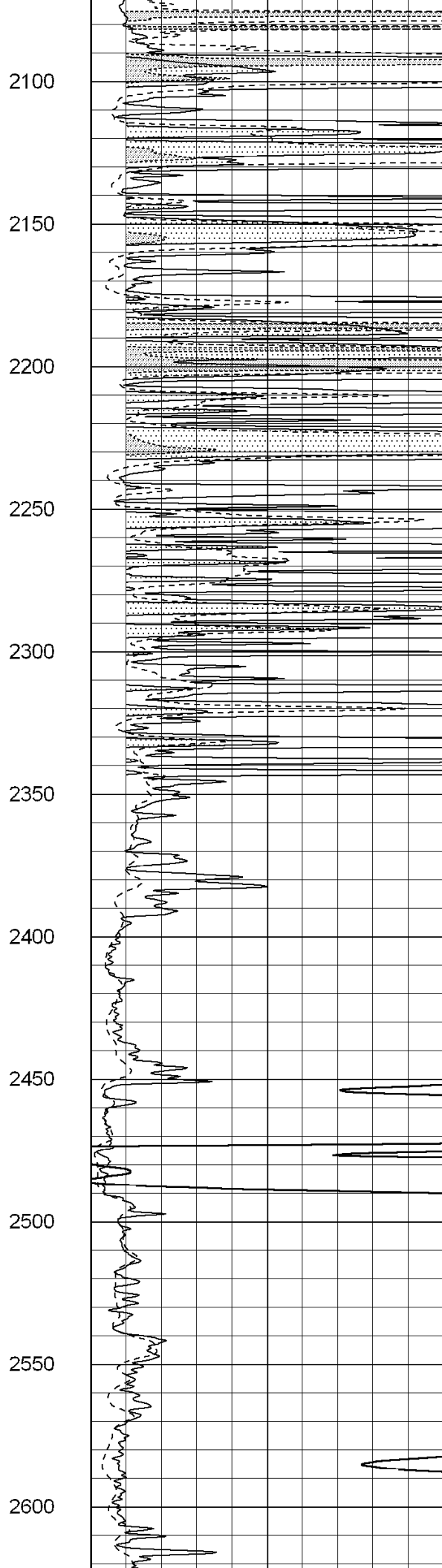
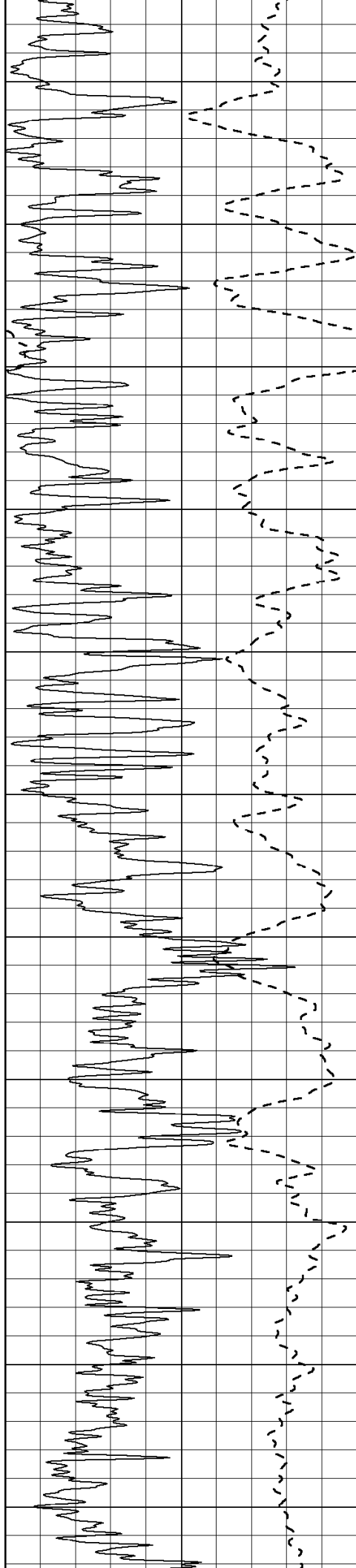
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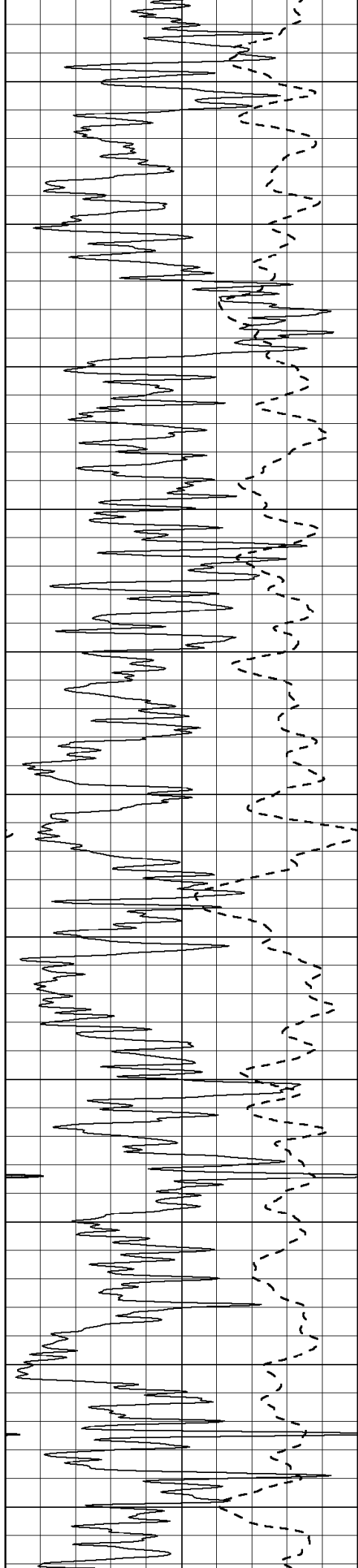
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2000

2050







2650

2700

2750

2800

2850

2900

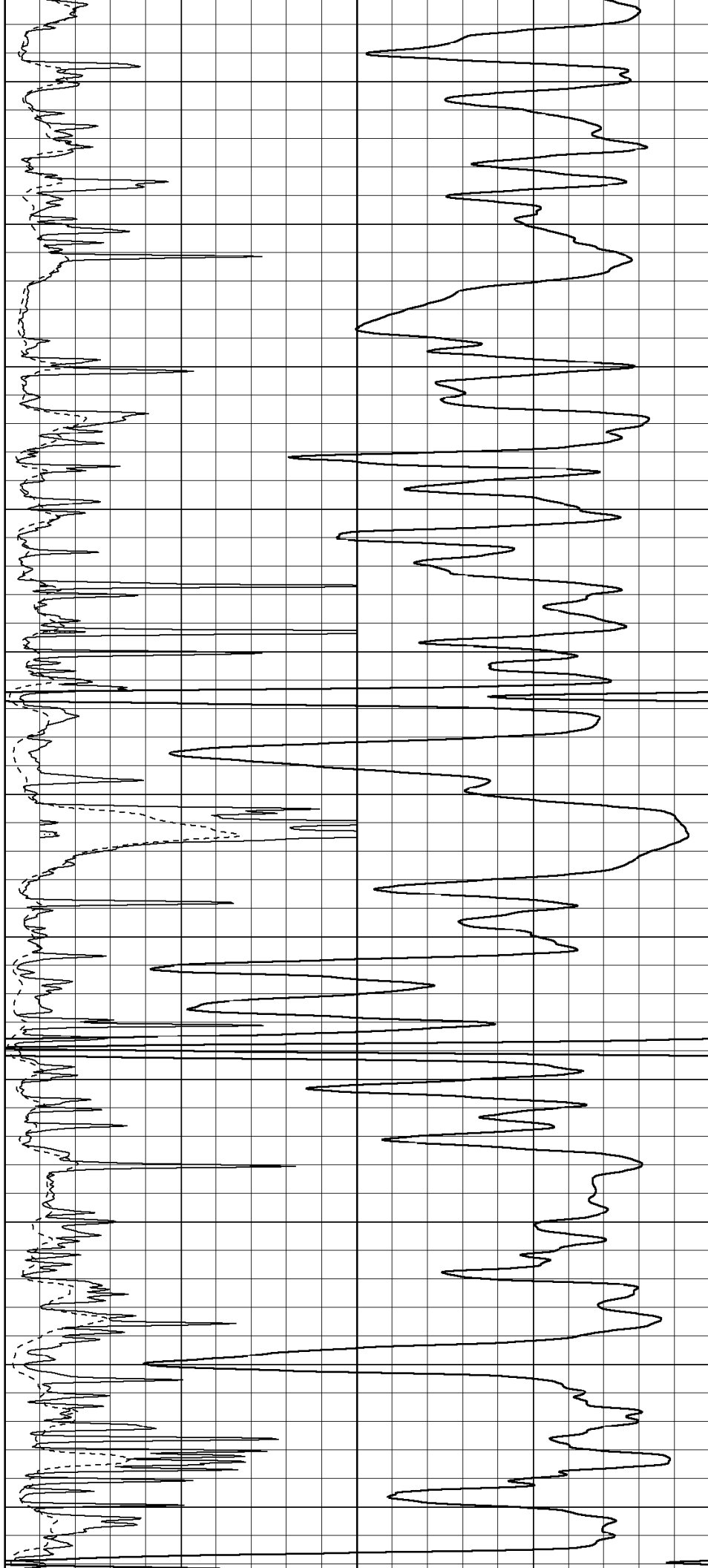
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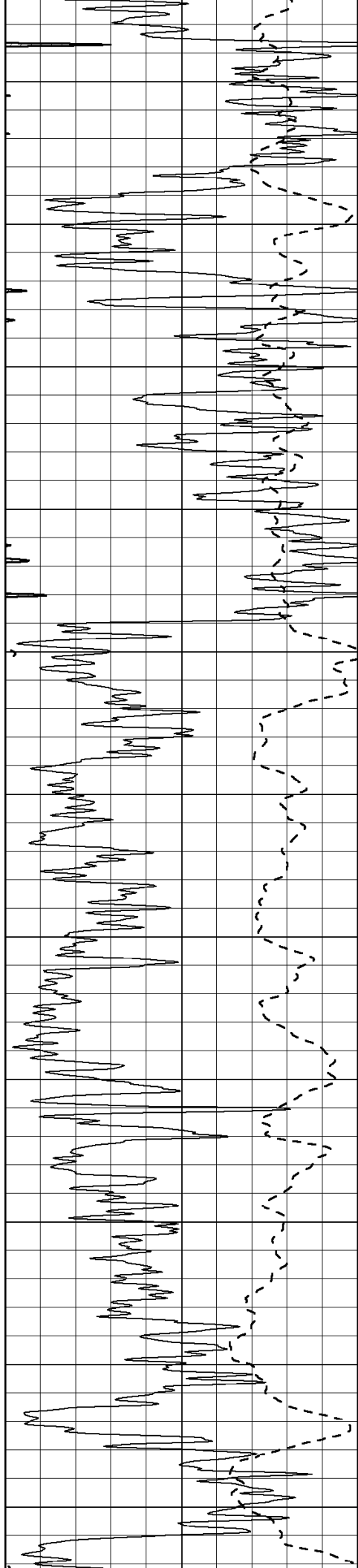
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3050

3100

3150





3200

3250

3300

3350

3400

3450

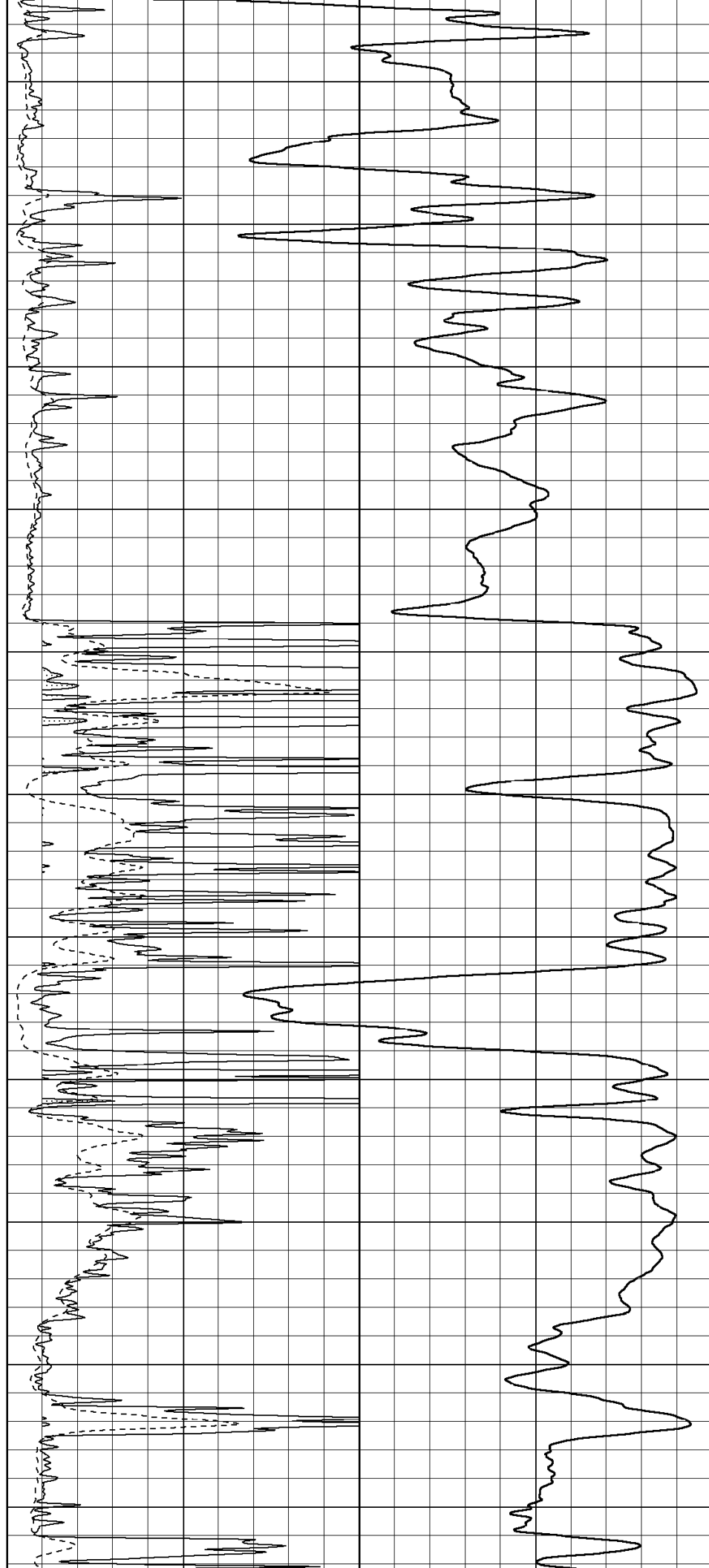
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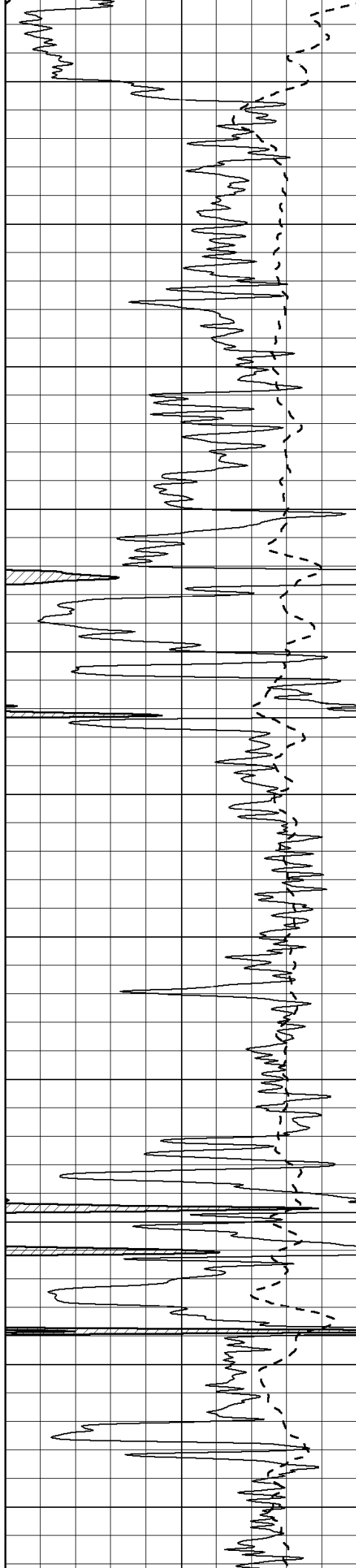
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3600

3650

3700





3750

3800

3850

3900

3950

4000

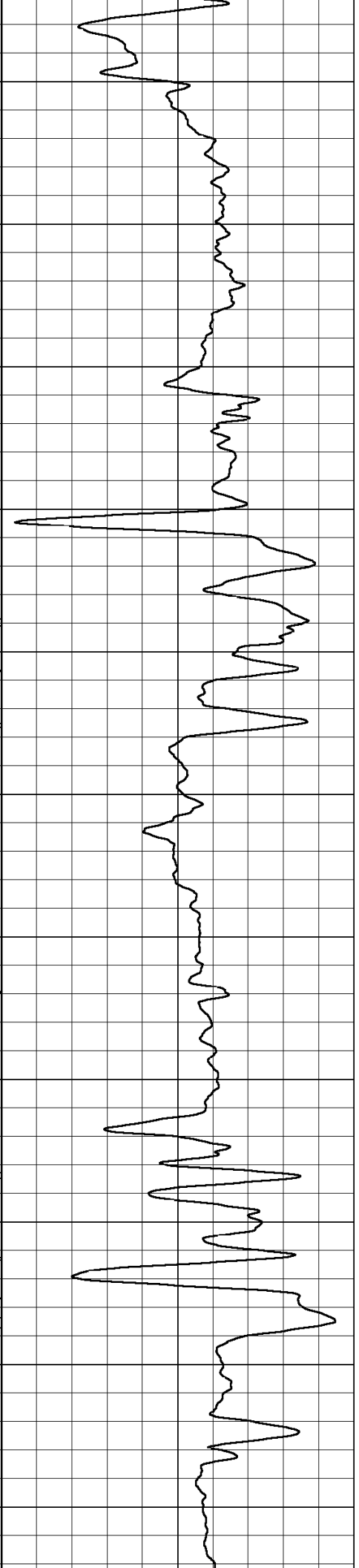
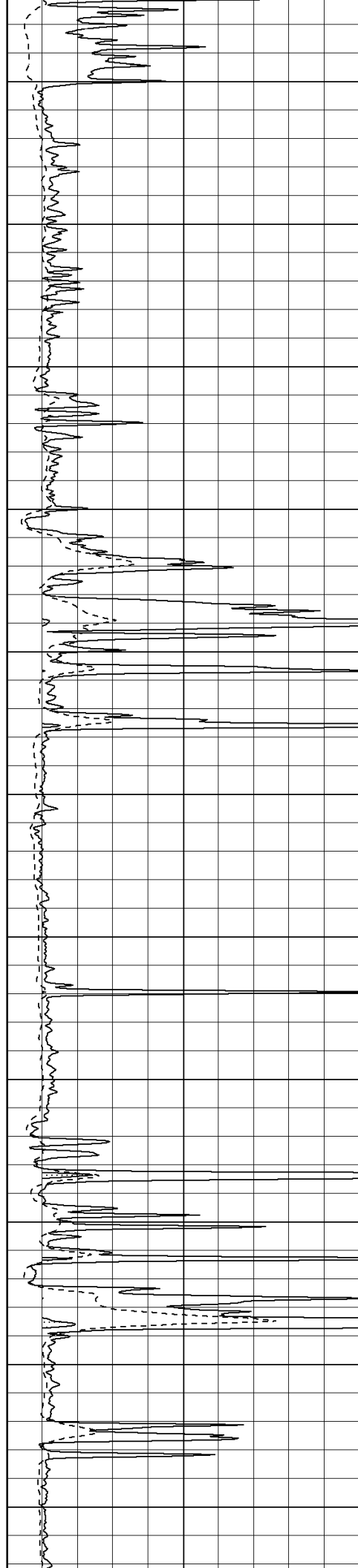
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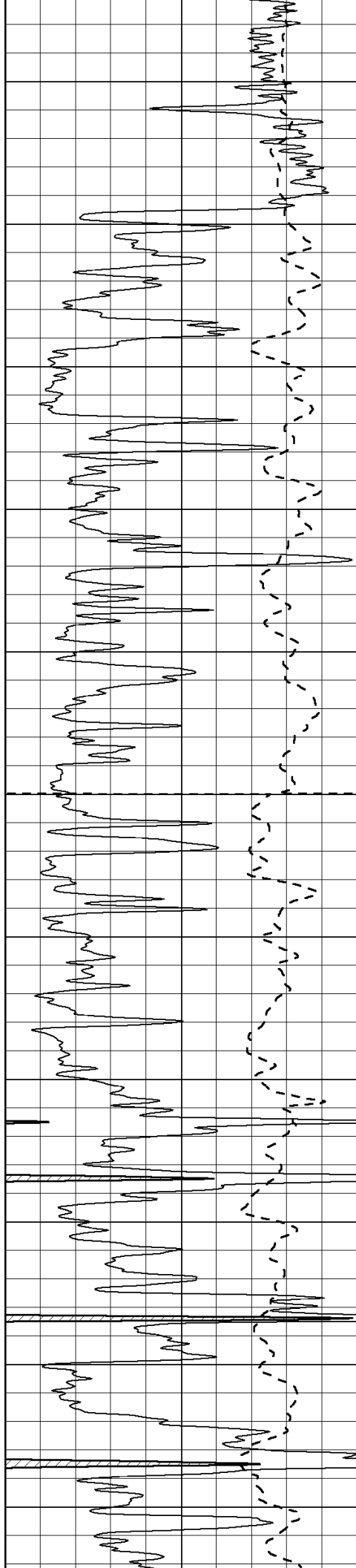
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4150

4200

4250





4300

4350

4400

4450

4500

4550

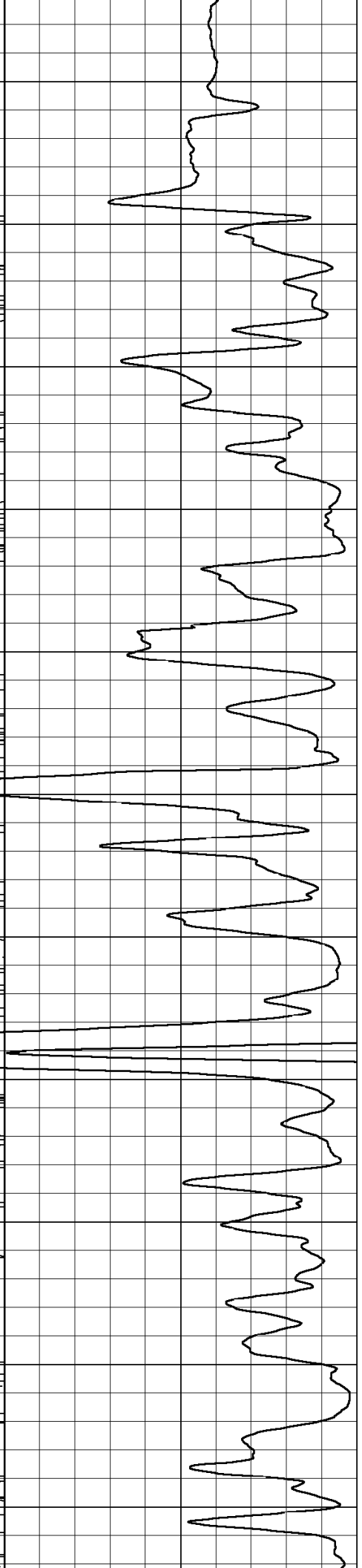
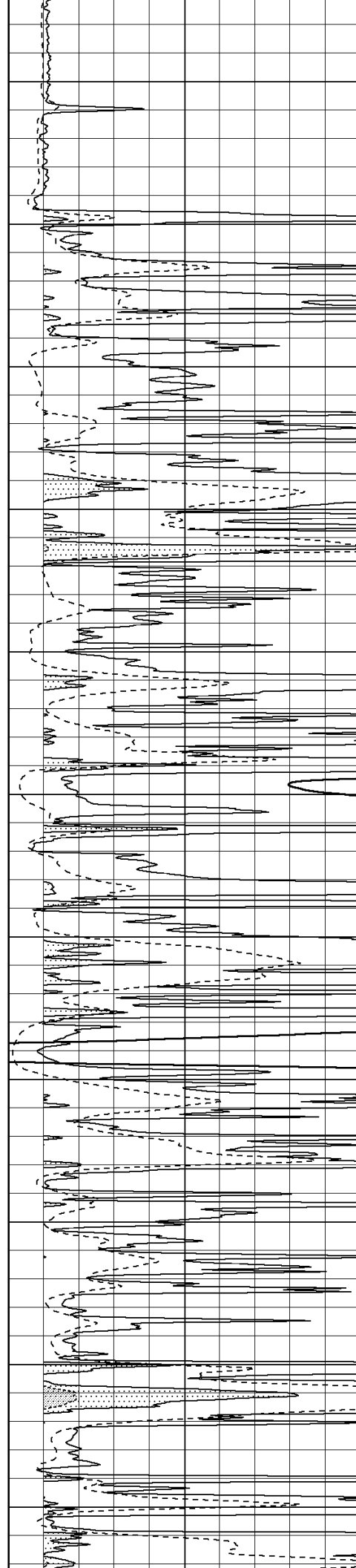
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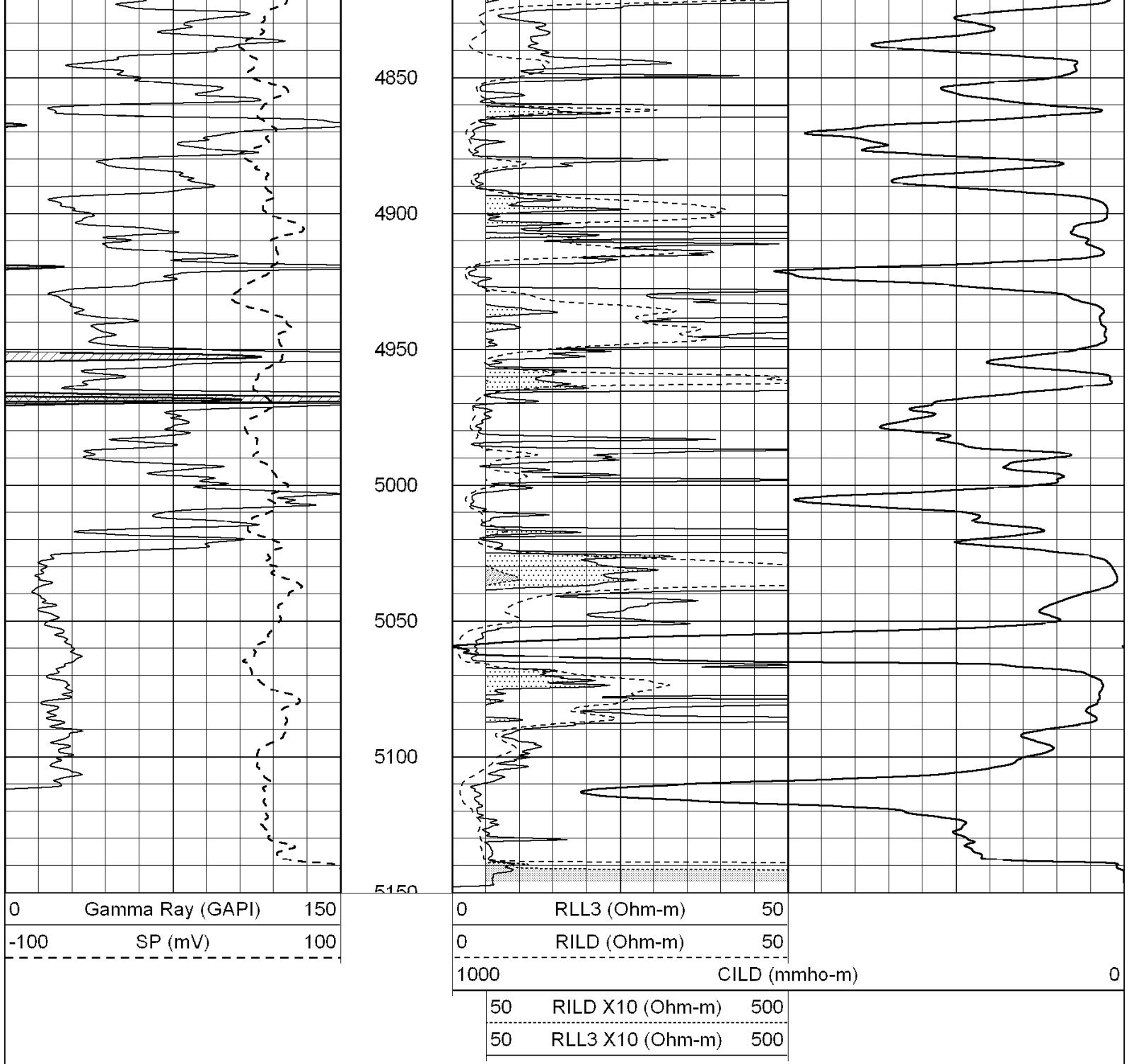
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4700

4750

4800





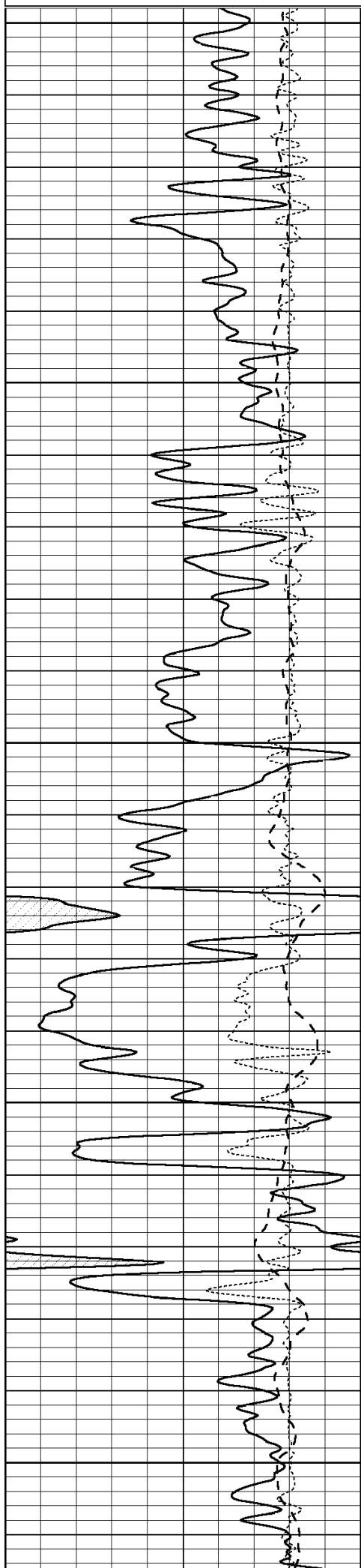
SUPERIOR
Hays,
Kansas

MAIN SECTION

Database File: 003262pe.db
 Dataset Pathname: pass3.7
 Presentation Format: dil
 Dataset Creation: Sun May 03 13:13:25 2009
 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



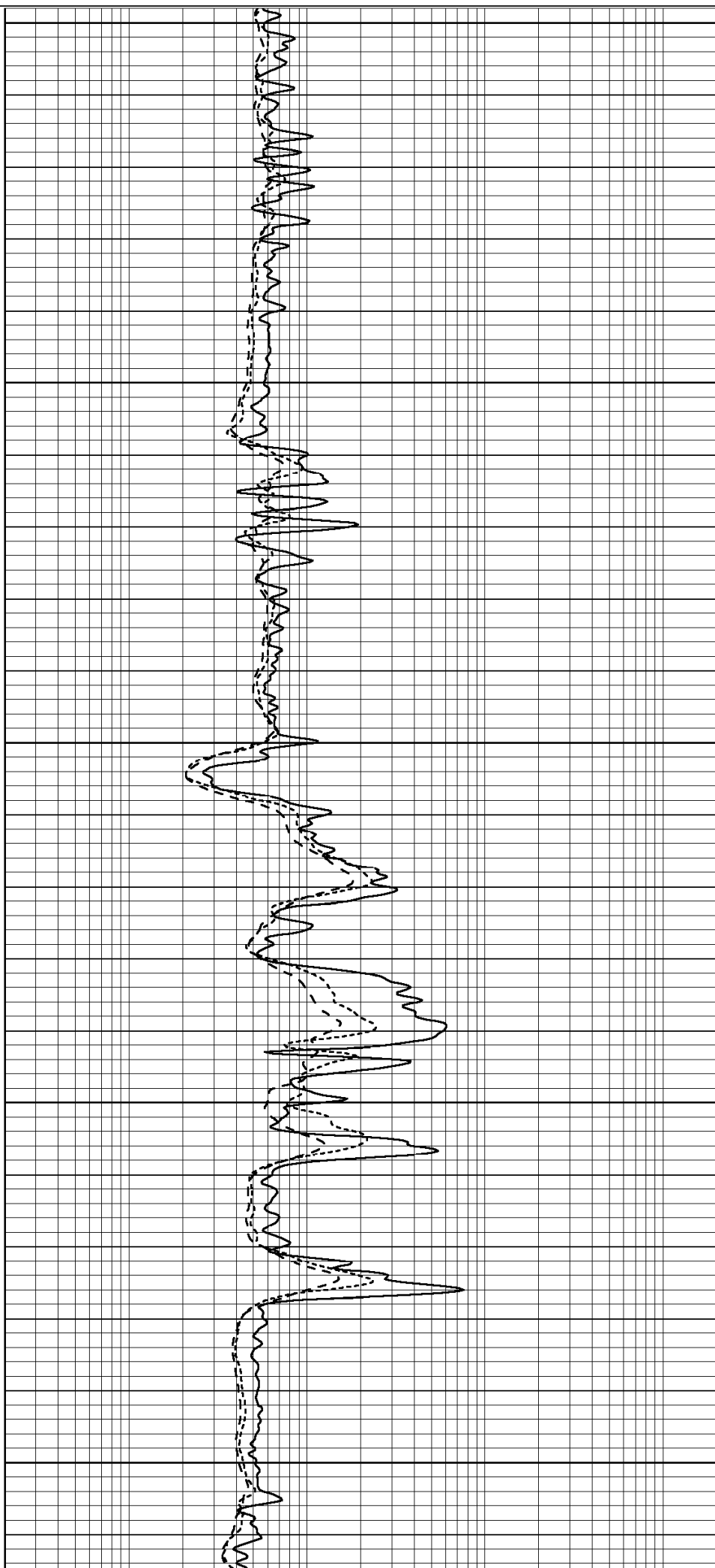
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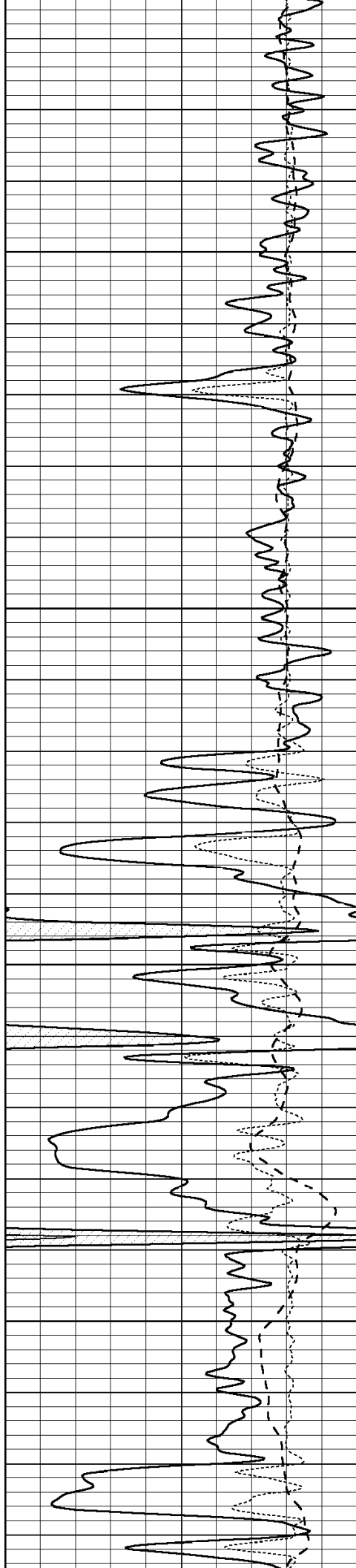
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3900

3950

4000



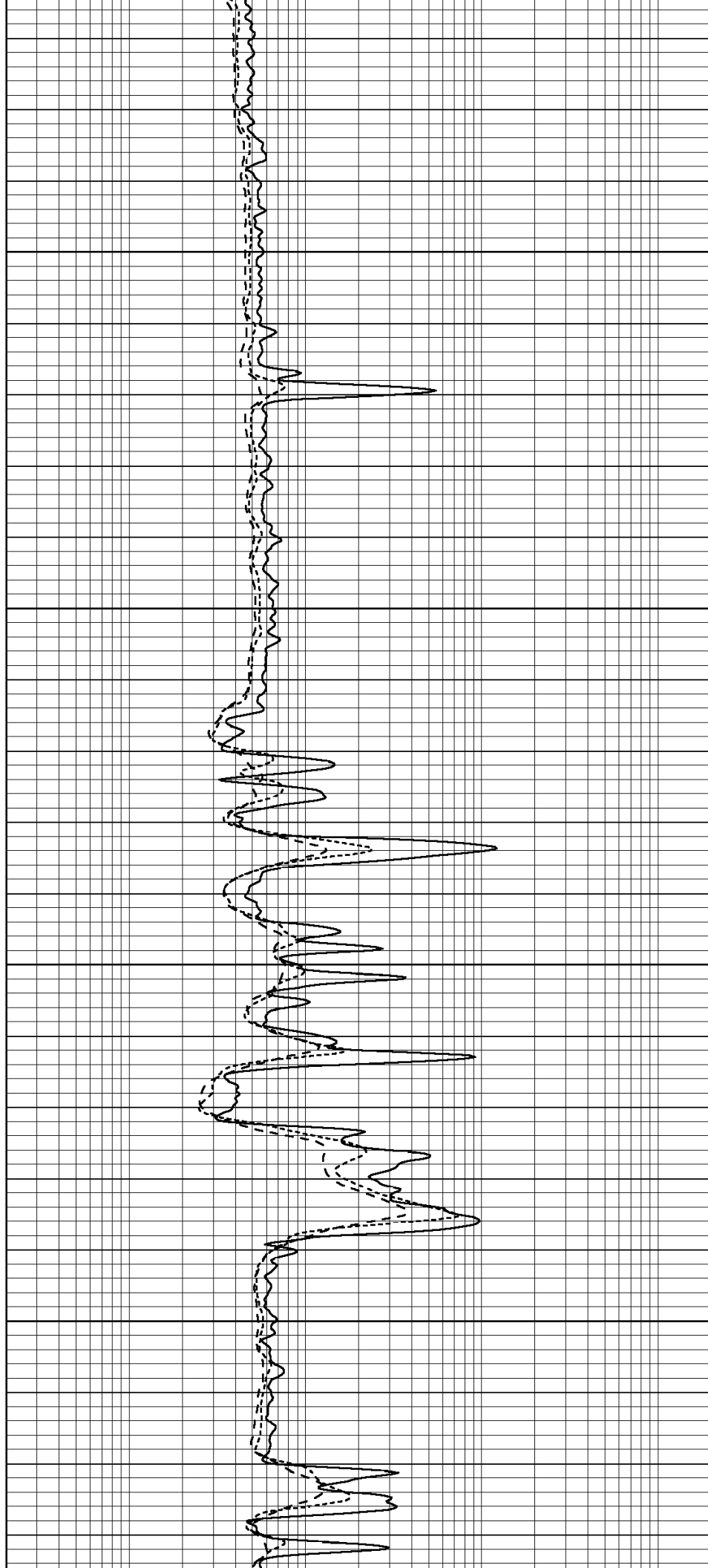


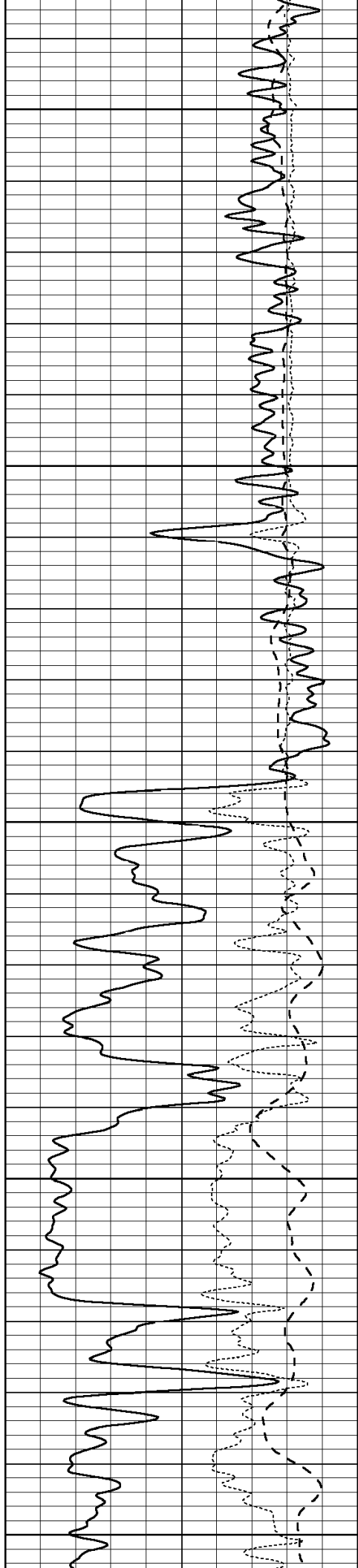
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4100

4150

4200





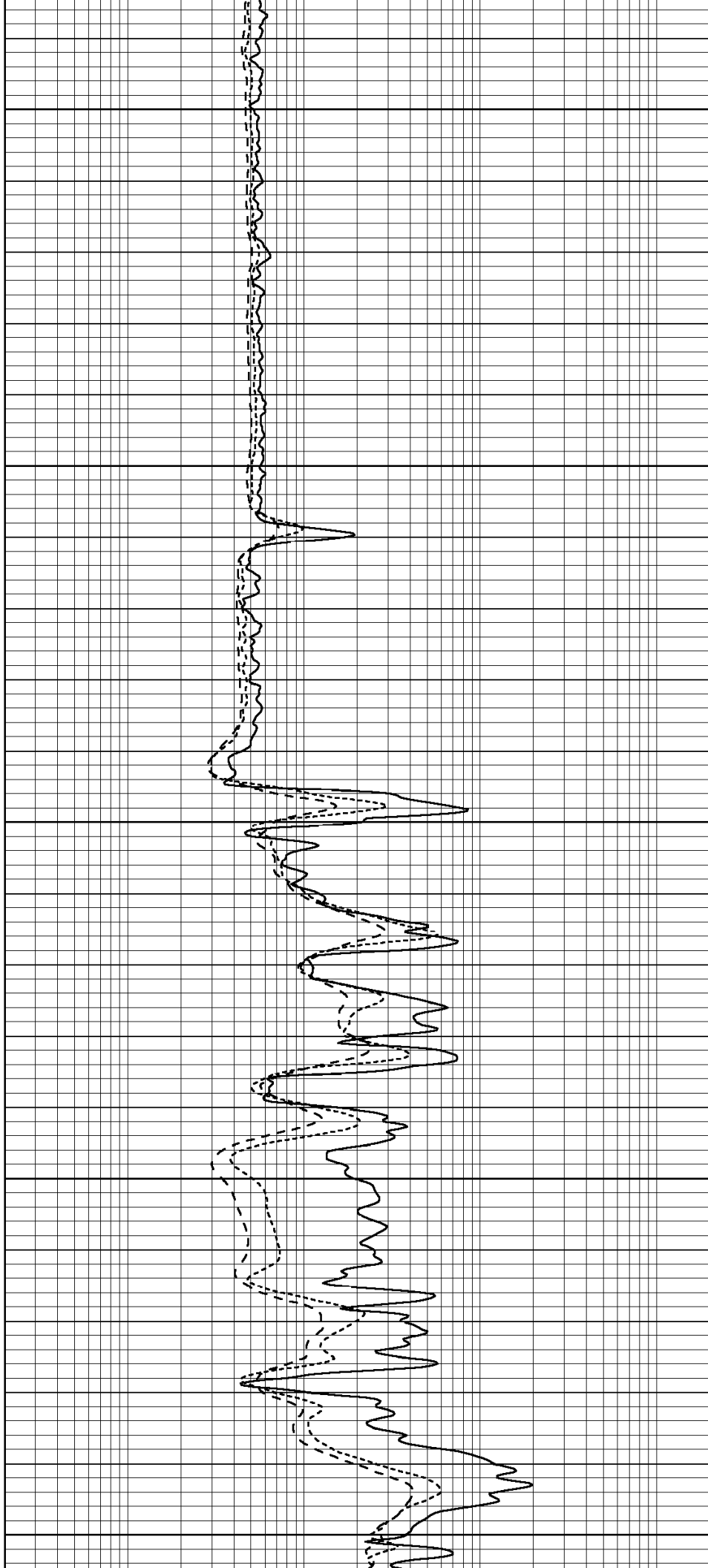
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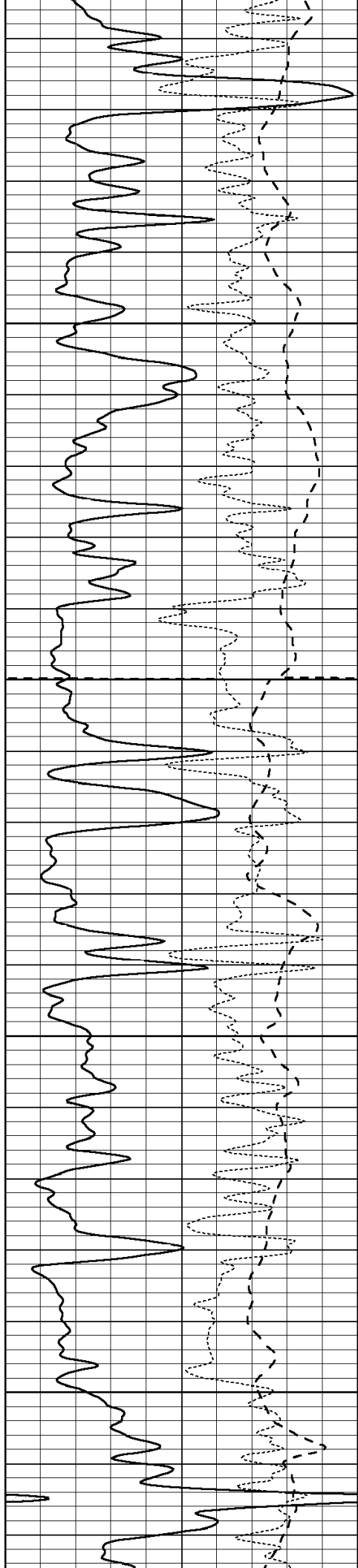
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4350

4400

4450



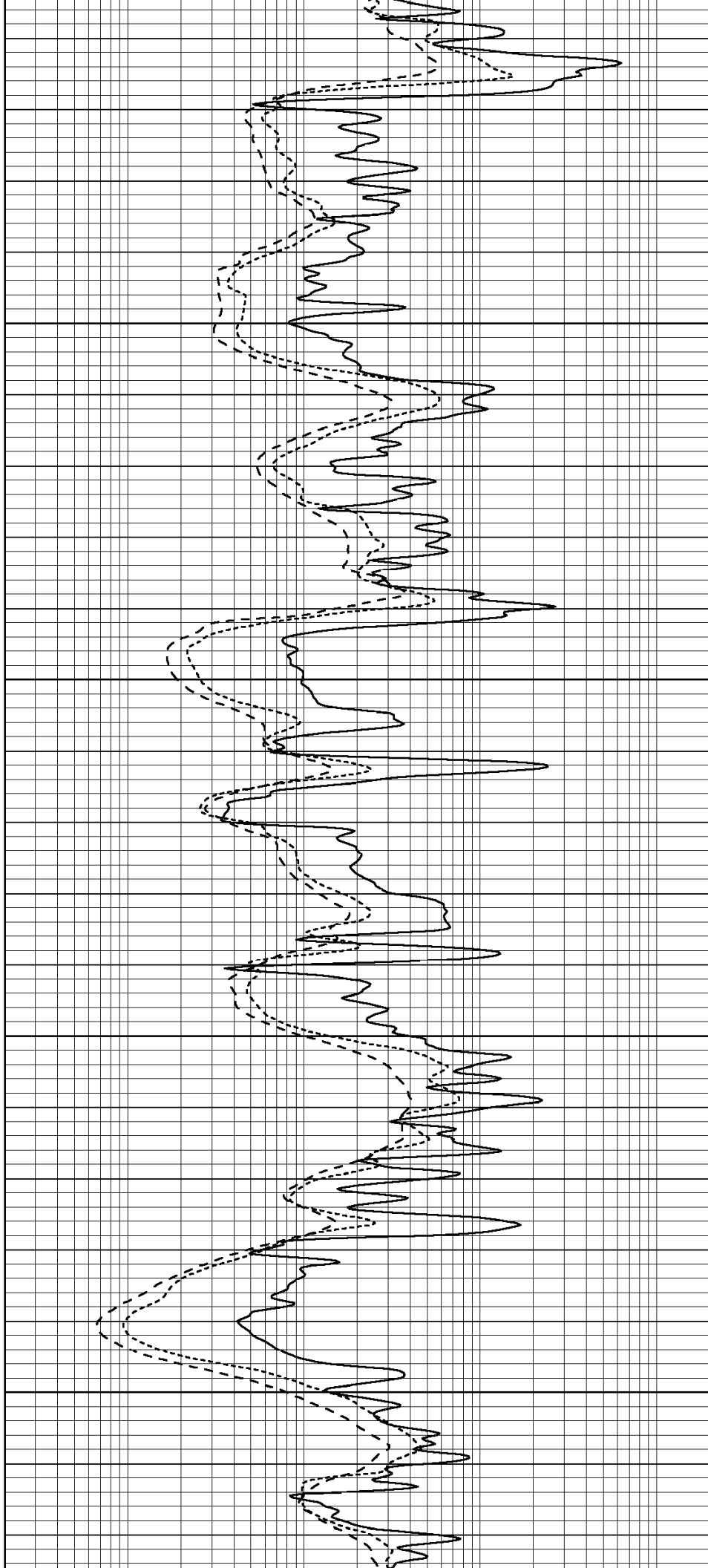


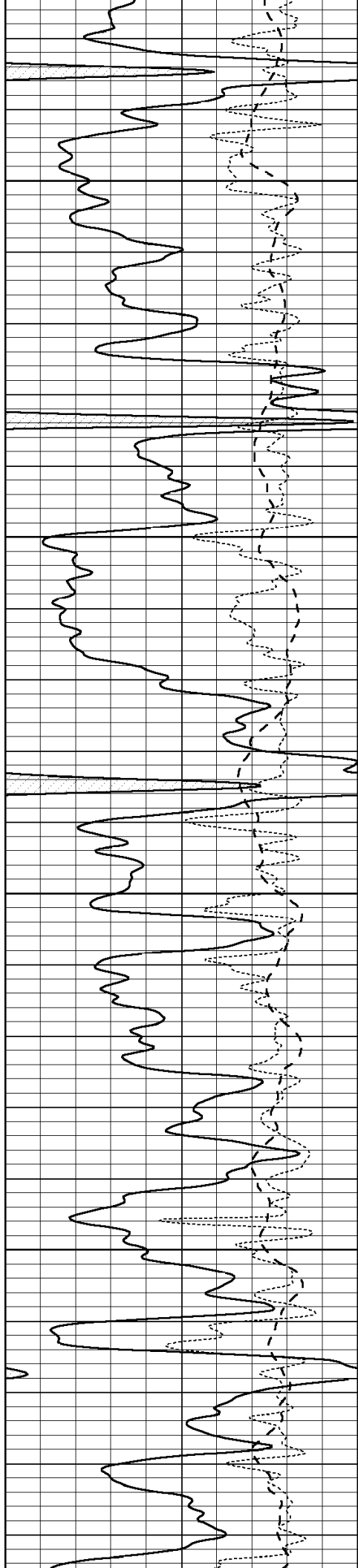
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4550

4600

4650



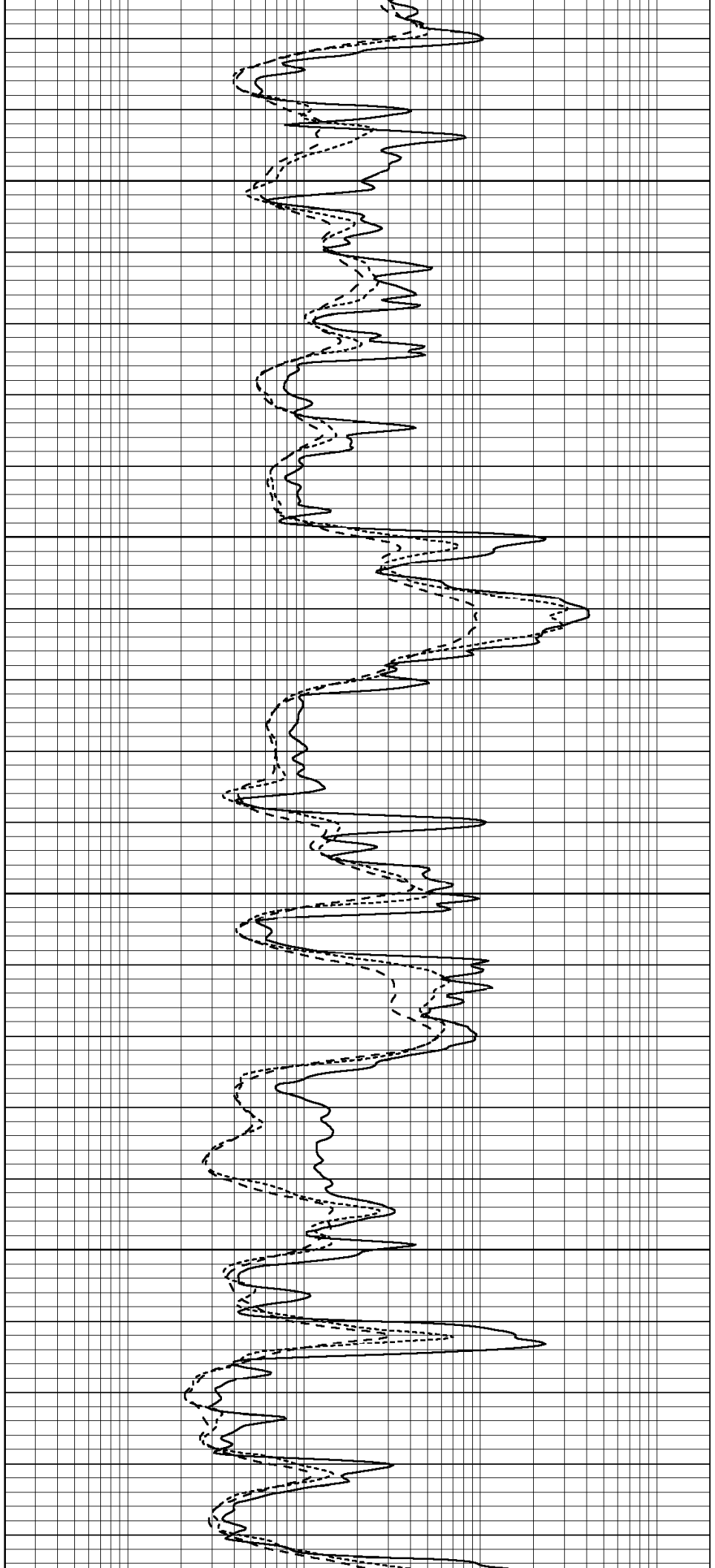


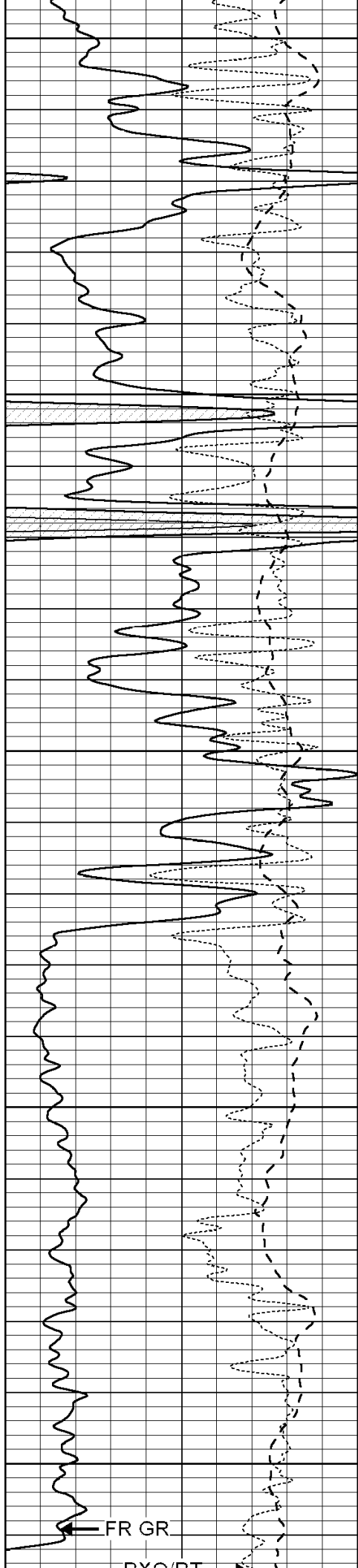
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4750

4800

4850





4900

4950

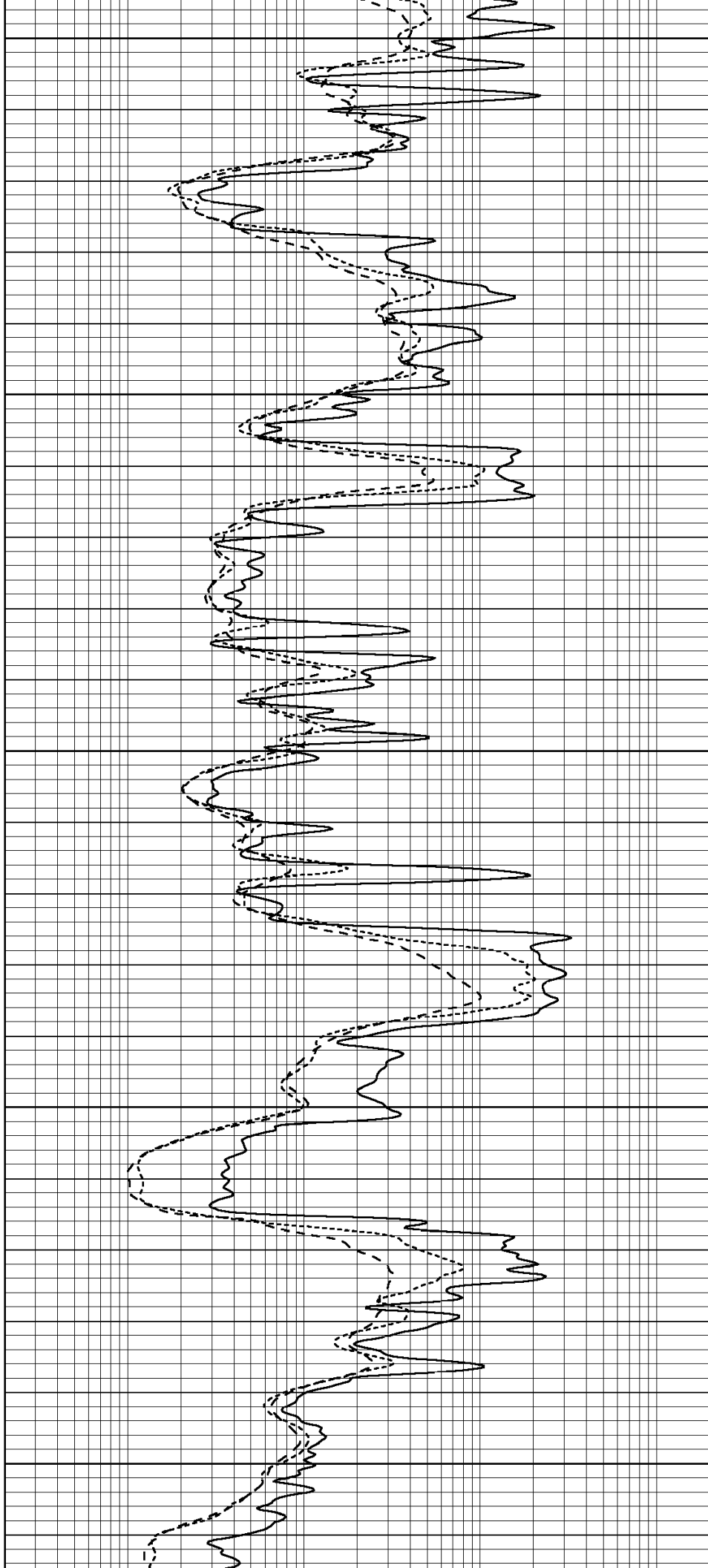
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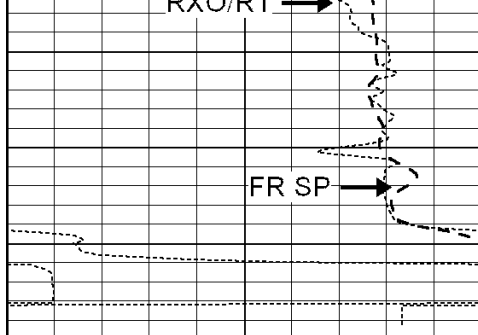
5050

5100

FR GR

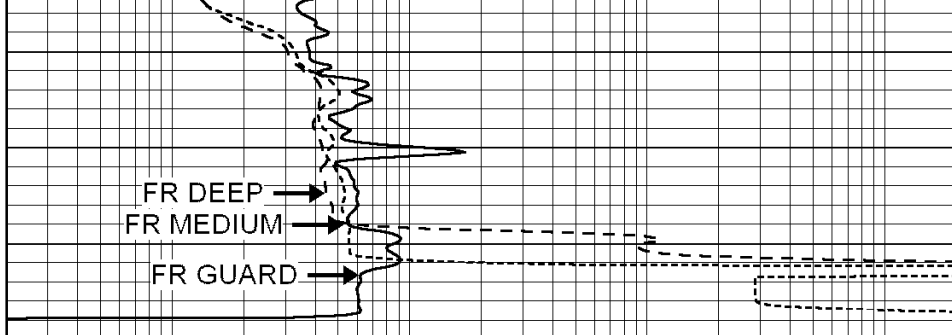
EXC PT





LTD 5146
5150

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



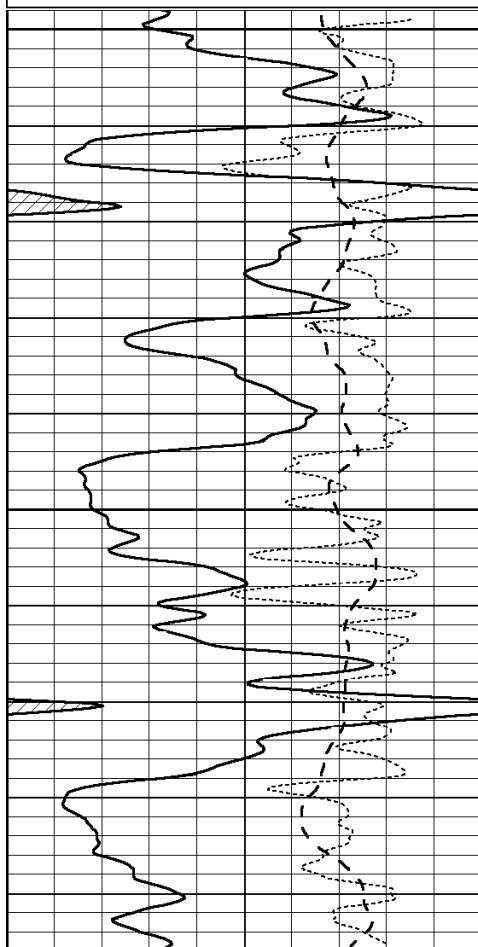
SUPERIOR
Hays,
Kansas

REPEAT SECTION

Database File: 003262pe.db
Dataset Pathname: pass2.4
Presentation Format: dil
Dataset Creation: Sun May 03 11:06:15 2009 by Calc Open-Cased 060407
Charted by: Depth in Feet scaled 1:240

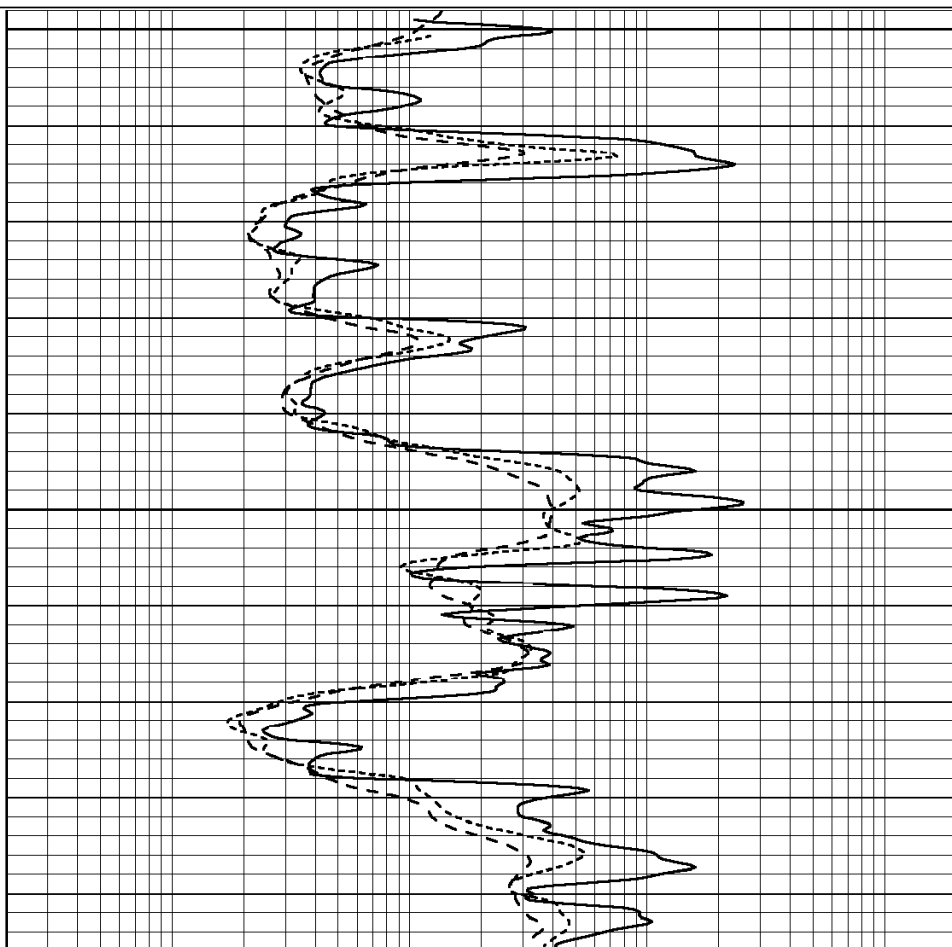
0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50

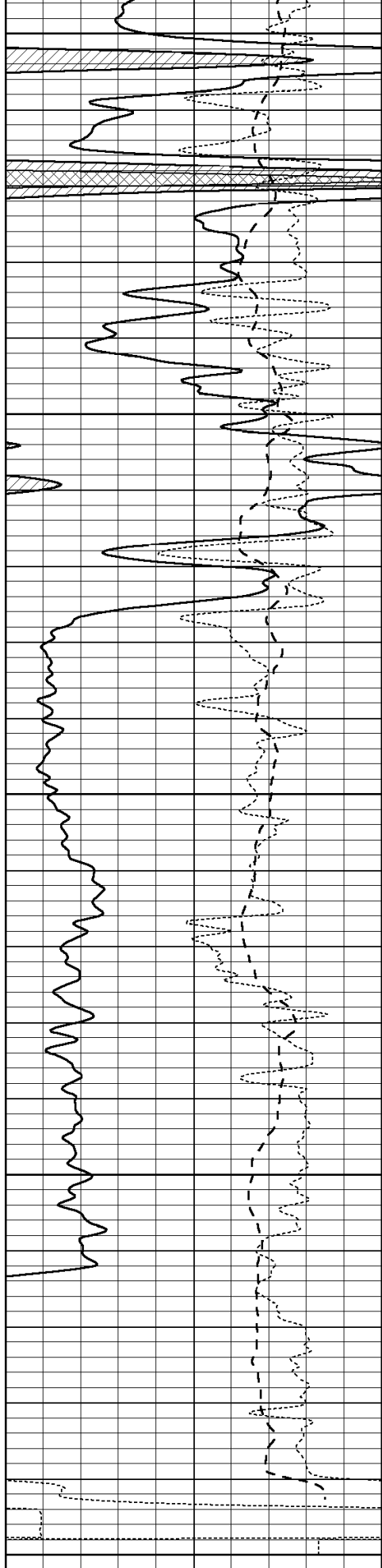
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000



4850

4900





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

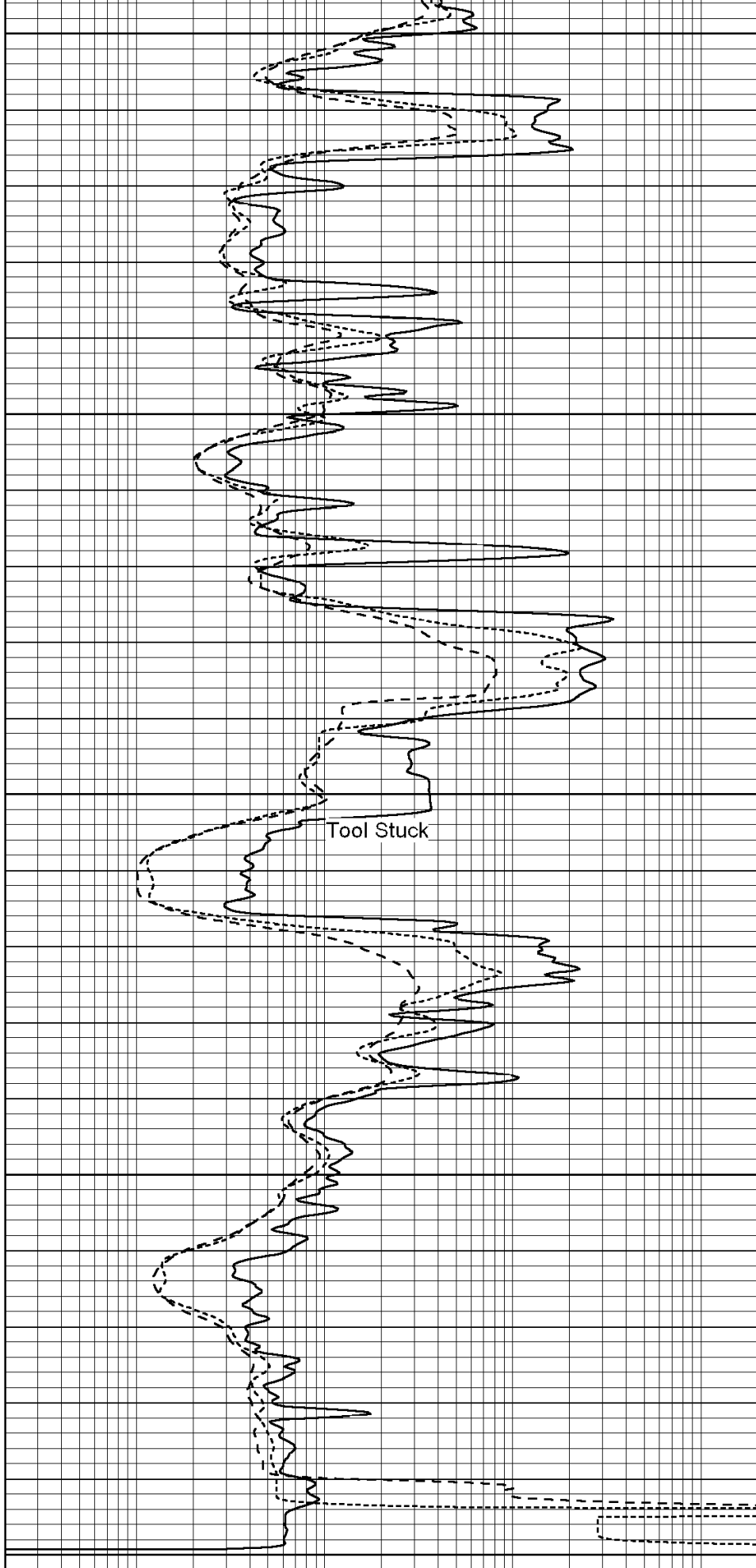
4950

5000

5050

5100

5150



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

Tool Stuck

Calibration Report

Database File: 003262pe.db
 Dataset Pathname: pass3.2
 Dataset Creation: Sun May 03 12:02:53 2009 by Calc Open-Cased 060407

Dual Induction Calibration Report

Serial-Model: DIL3-GEAR
 Performed: Sun May 03 11:48:28 2009

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.011	0.656	V	0.000	400.000	mmho-m	640.000	-2.000
Medium	0.013	0.740	V	0.000	462.500	mmho-m	675.000	-16.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.002	0.645	V	0.000	400.000	mmho-m	622.059	-1.071
Medium	0.007	0.740	V	0.000	462.500	mmho-m	631.393	-4.555

Litho Density Calibration Report

Serial: 004N Model: PRB
 Performed Wed Feb 18 14:22:08 2009

Litho Density Calibration

	Background	Magnesium	Aluminum	Sandstone	
Window 1	1561.2	10815.1	3655.8	12418.8	cps
Window 2	1425.2	9176.3	3183.9	10387.8	cps
Window 3	1092.2	4291.0	1759.2	4746.8	cps
Window 4	339.5	347.6	341.8	348.3	cps
Long Space	0.0	7751.0	1758.7	8962.6	cps
Short Space	1.3	1175.2	770.9	1319.8	cps
Rho		1.7100	2.5900	1.3800	g/cc
Pe			2.5700	1.5500	
Rib Angle	: 44.1	Rib Slope	: 0.970	Density/Spine Ratio	: 0.571
Spine Angle	: 74.1	Spine Slope	: 3.518	Spine Intercept	: -15.9

Caliper

	Readings	Reference
Low Ref	2.0	6.5
High Ref	4.7	16.0
Gain: 3.5		Offset: -0.5

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 May 03 11:06:30 2009

Calibrator Value:	200.0	GAPI
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Background Reading:	0.0	cps
Calibrator Reading:	189.0	cps

Sensitivity:	1.0500	GAPI/cps
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