



**SUPERIOR
Hays,
Kansas**

**DUAL
INDUCTION
LOG**

Company	RITCHIE EXPLORATION, INC.		
Well	#1 YOUNGERS 18CD		
Field	CARSON POOL		
County	FORD	State	KANSAS
Location:	API # : 15-057-20772		Other Services
	595' FSL & 770' FEL		CDL / CNL
Permanent Datum	SEC 18	TWP 27S	RGE 23W
Log Measured From	GROUND LEVEL		Elevation
Drilling Measured From	KELLY BUSHING 12' A.G.L.		K.B. 2435
	KELLY BUSHING		D.F. 2423
			G.L. 2423
Date	12-30-11		
Run Number	ONE		
Depth Driller	5100		
Depth Logger	5100		
Bottom Logged Interval	5098		
Top Log Interval	00		
Casing Driller	368		
Casing Logger	368		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.3 / 54		
pH / Fluid Loss	10.5 / 9.6		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	0.65 @ 77F		
Rmf @ Meas. Temp	0.49 @ 77F		
Rmc @ Meas. Temp	0.78 @ 77F		
Source of Rmf / Rmc	MEASURED		
Rim @ BHT	.400 @ 126F		
Time Circulation Stopped	3 HOURS		
Time Logger on Bottom	1:30 P.M.		
Maximum Recorded Temperature	126F		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	RUPP		
Witnessed By	MIKE ENGELBRECHT		

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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

SUPERIOR WELL SERVICES
785-628-6395
THANK YOU FOR YOUR BUSINESS
DIRECTIONS: SPEARVILLE, S TO #400, NW TO #117, 1 1/2S TO LARIAT WAY, 2E, S INTO.

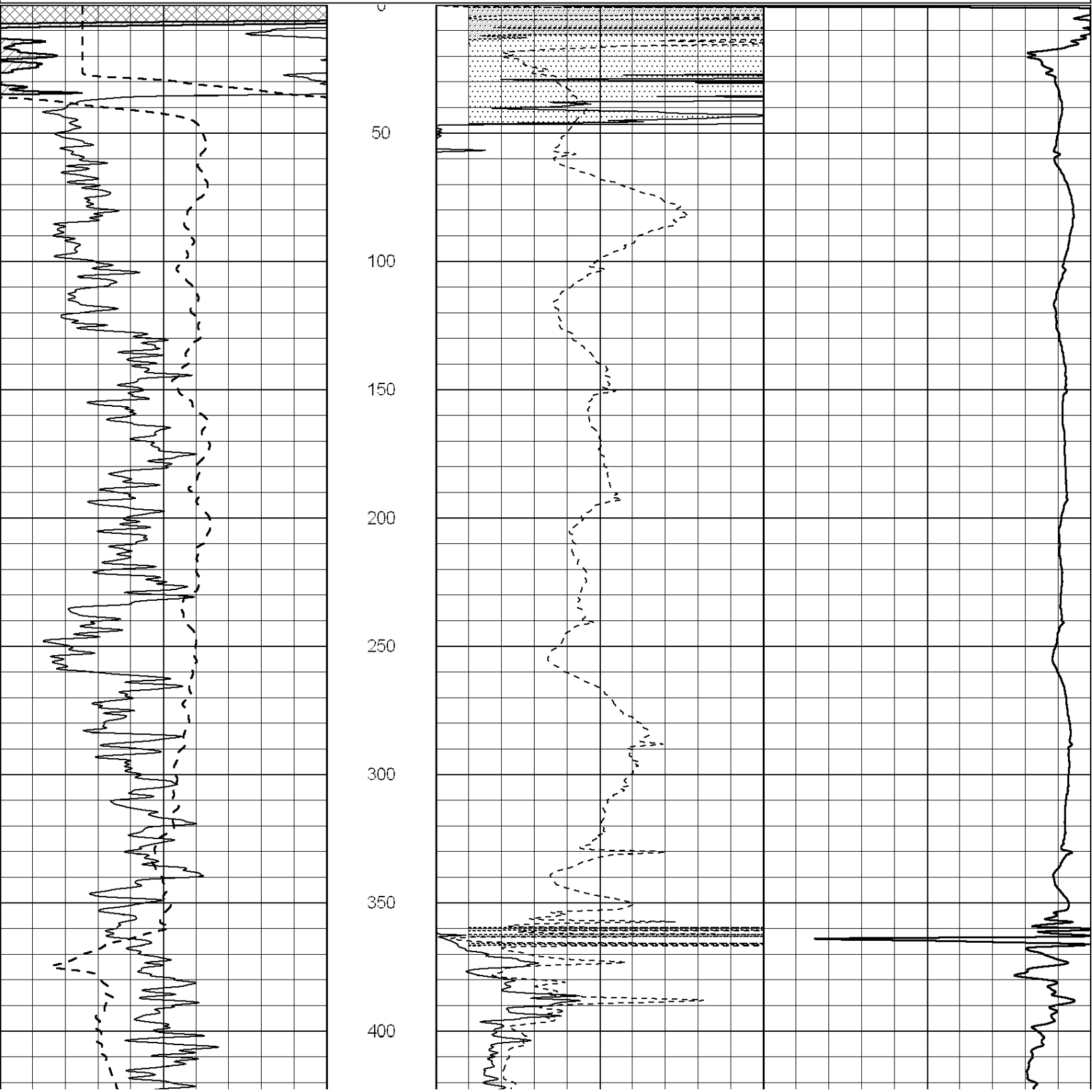


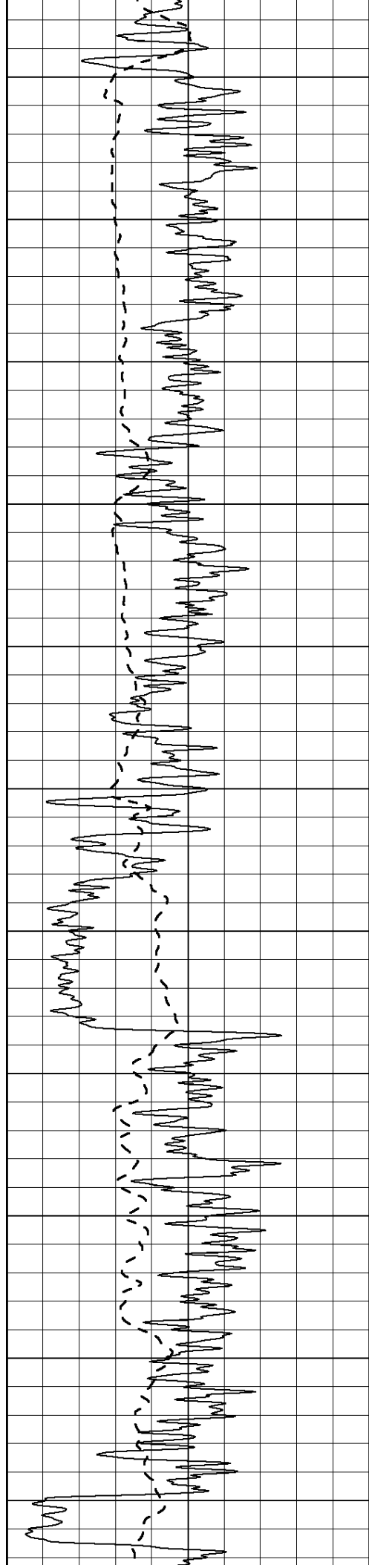
**SUPERIOR
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MAIN SECTION

Database File: 001222ddn.db
Dataset Pathname: pass4.A
Presentation Format: dil2
Dataset Creation: Fri Dec 30 04:02:20 2011
Charted by: Depth in Feet scaled 1:600

0	Gamma Ray (GAPI)	150	0	RLL3 (Ohm-m)	50
-100	SP (mV)	100	0	Deep Induction (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

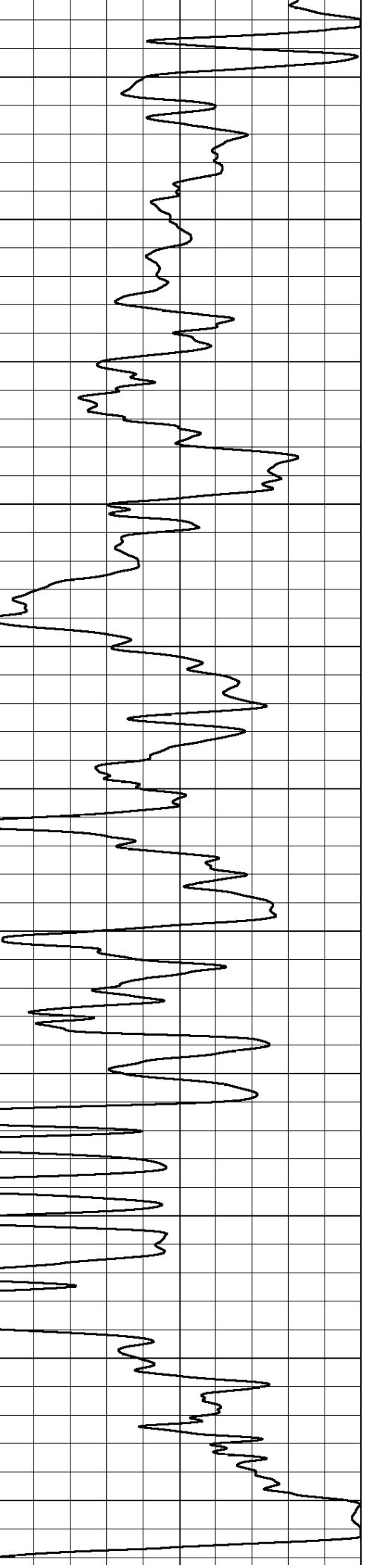
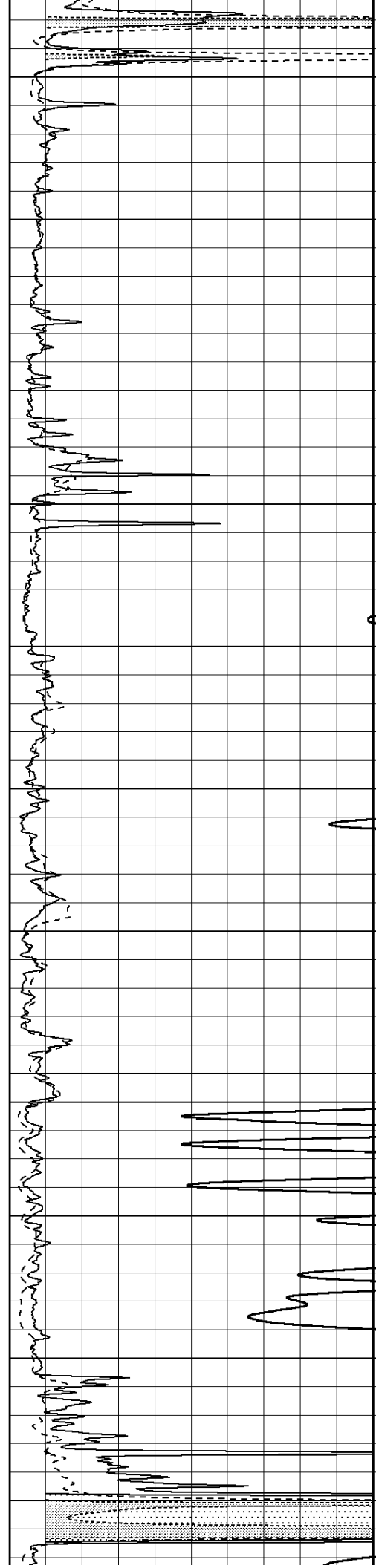
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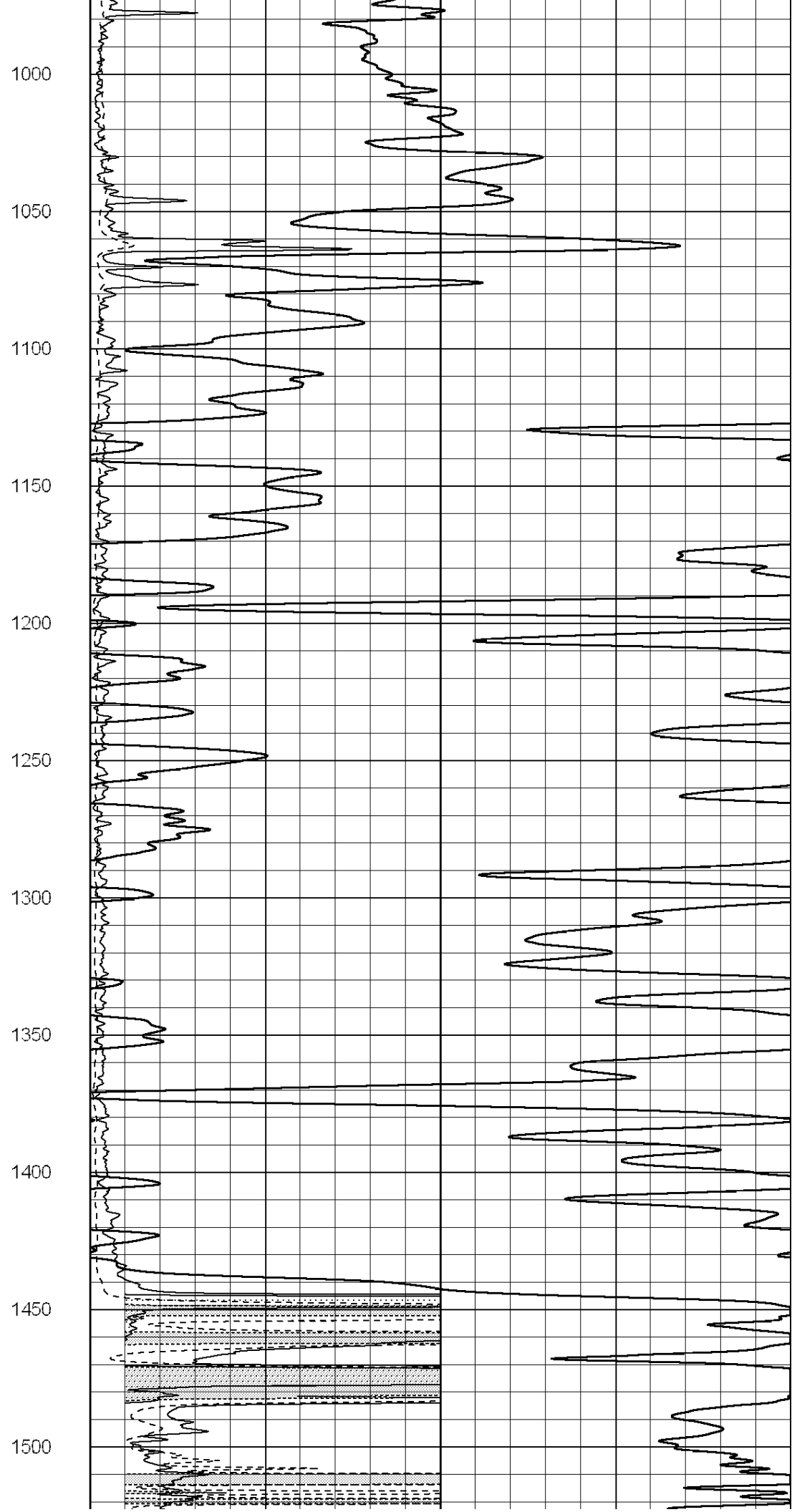
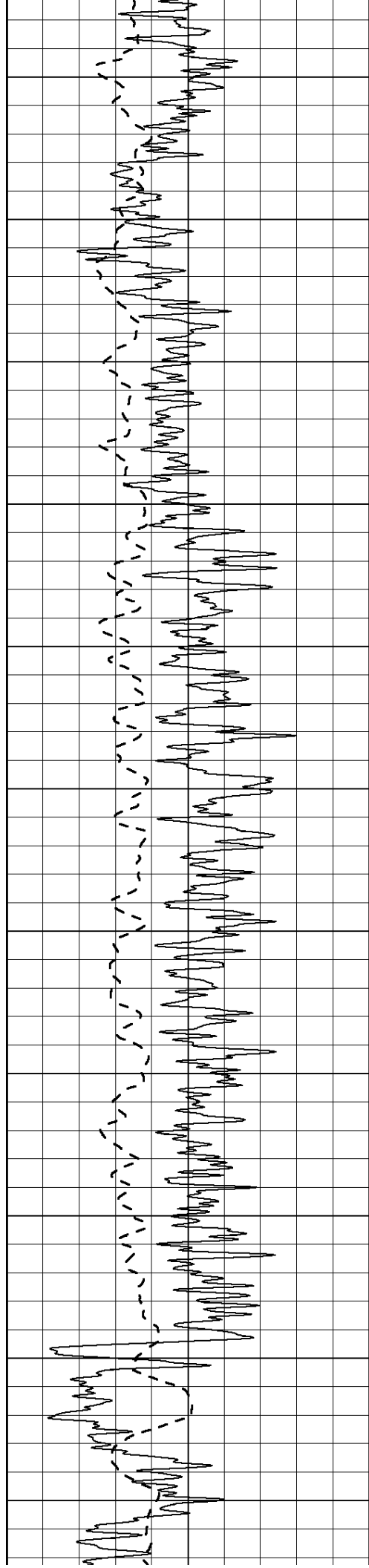
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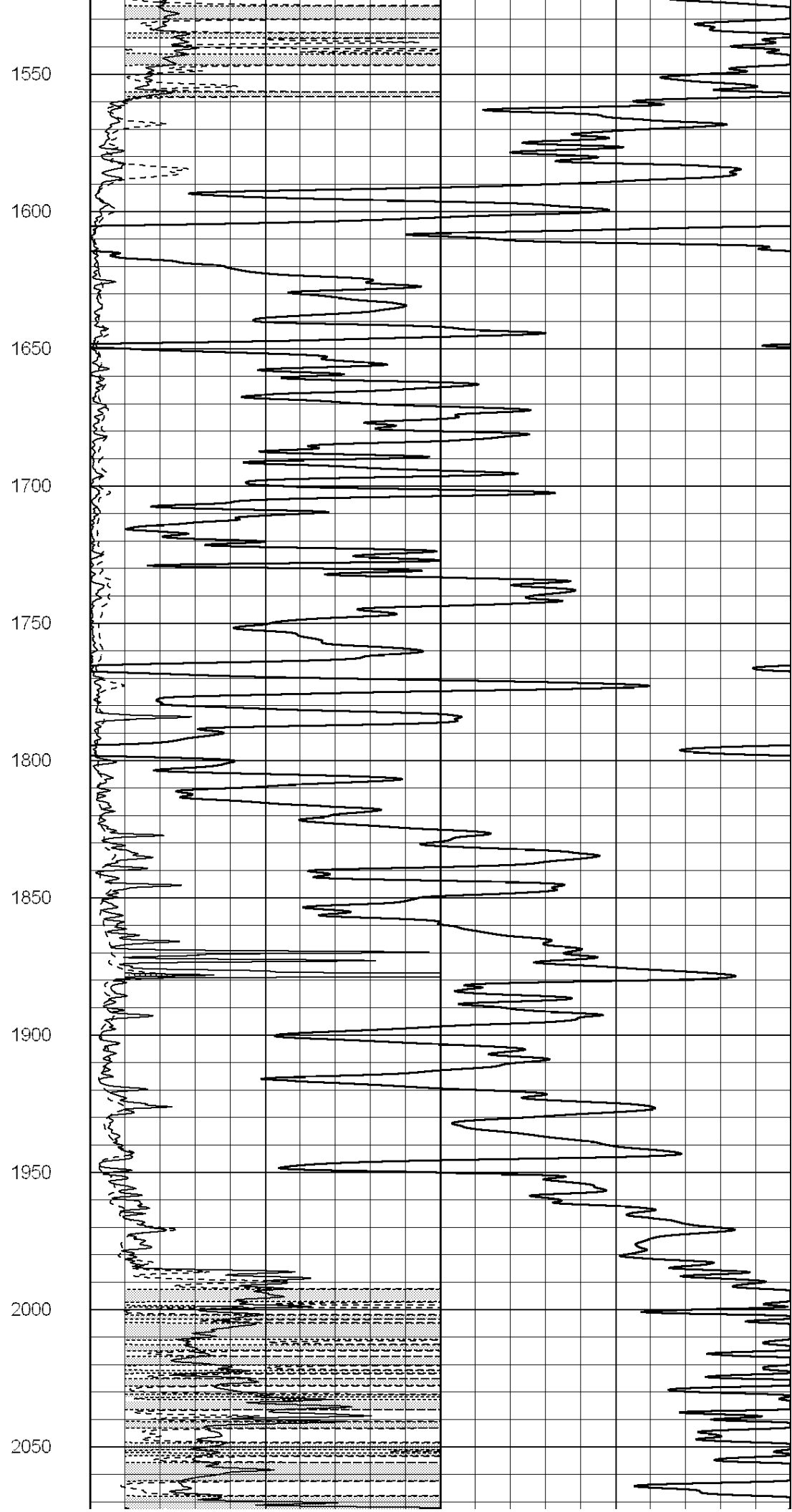
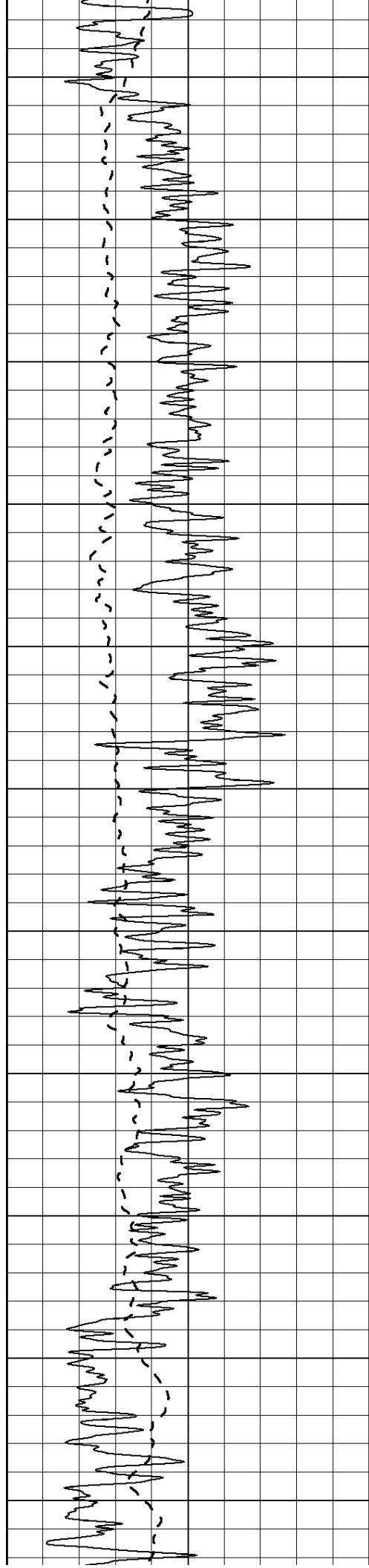
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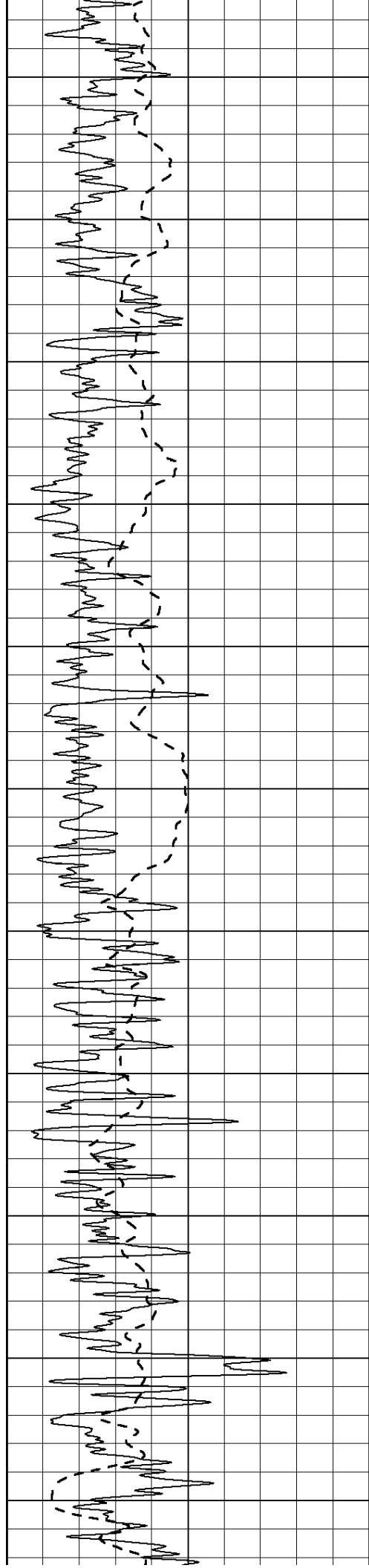
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950









2100

2150

2200

2250

2300

2350

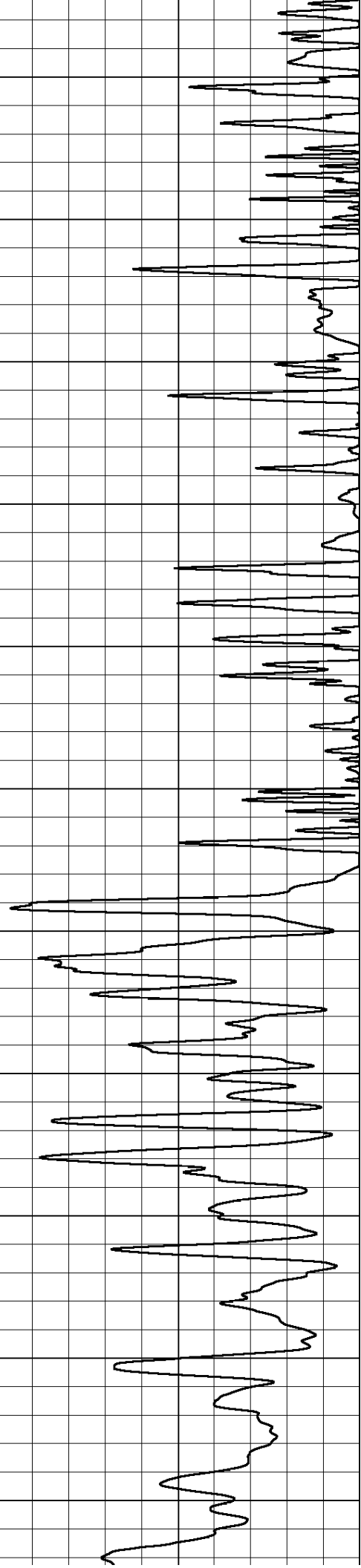
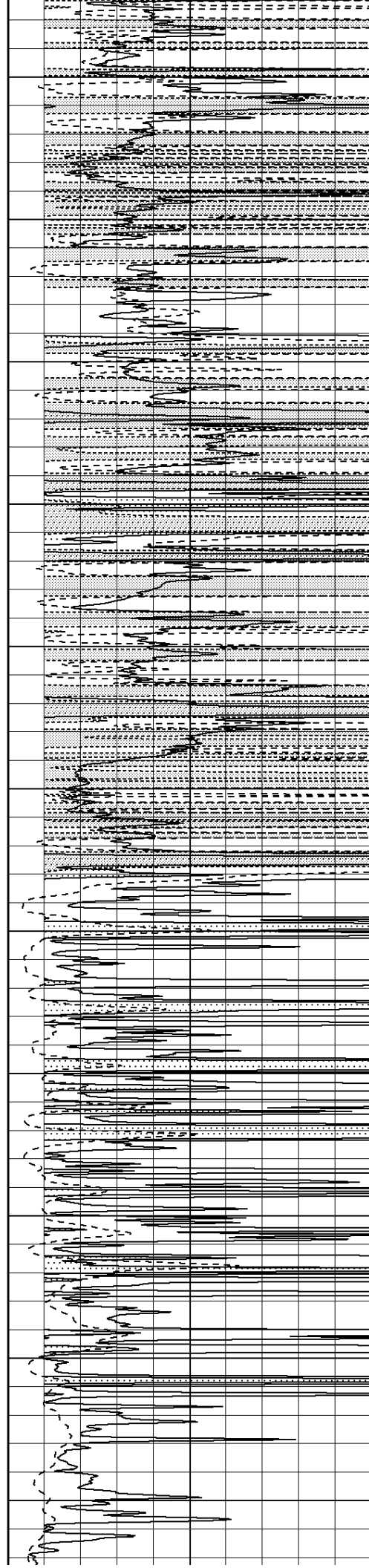
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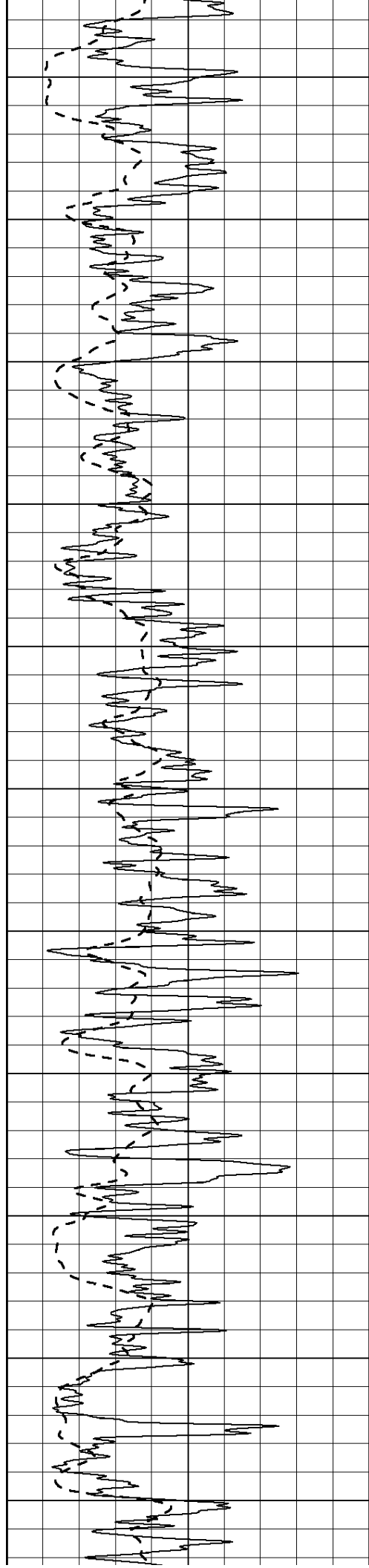
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2500

2550

2600





2650

2700

2750

2800

2850

2900

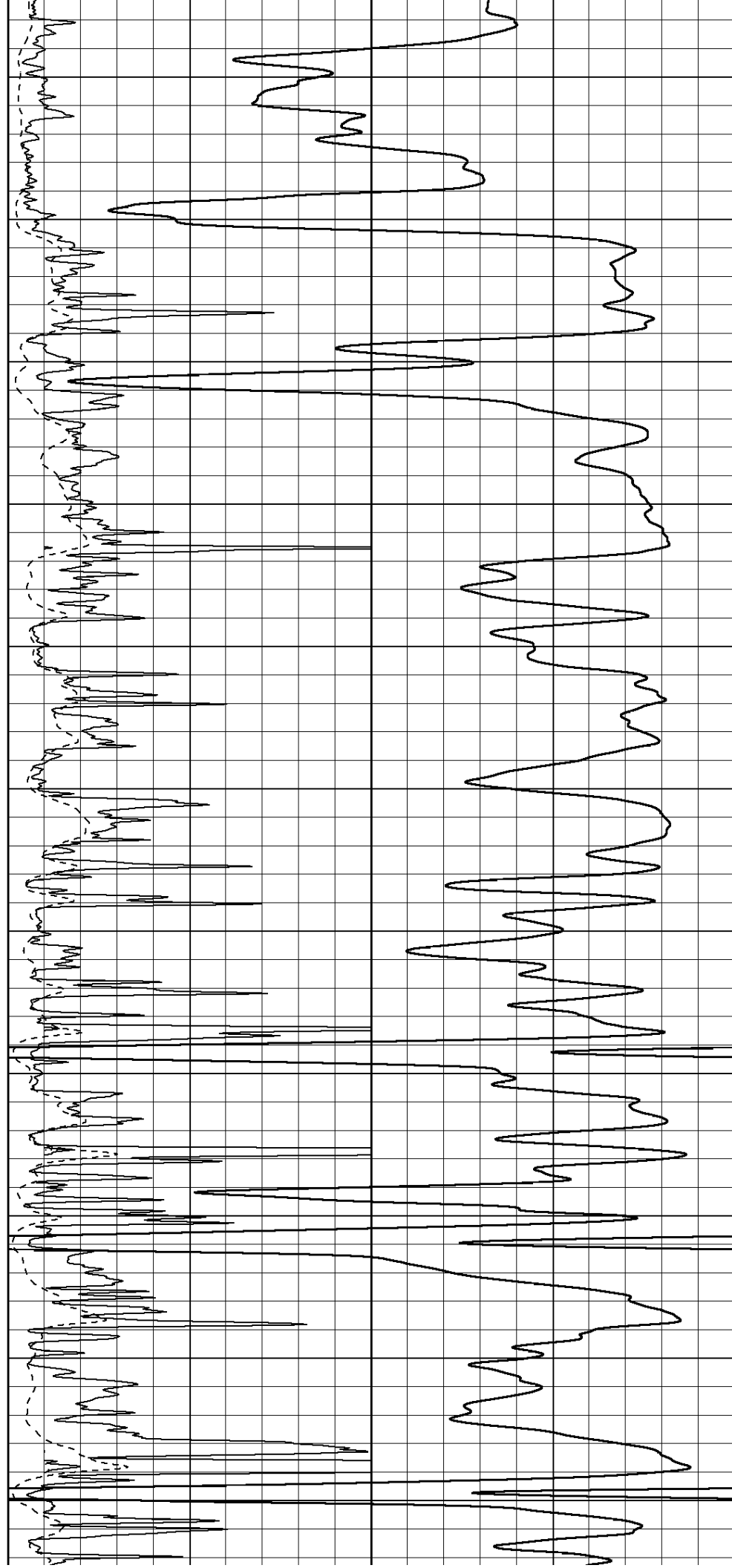
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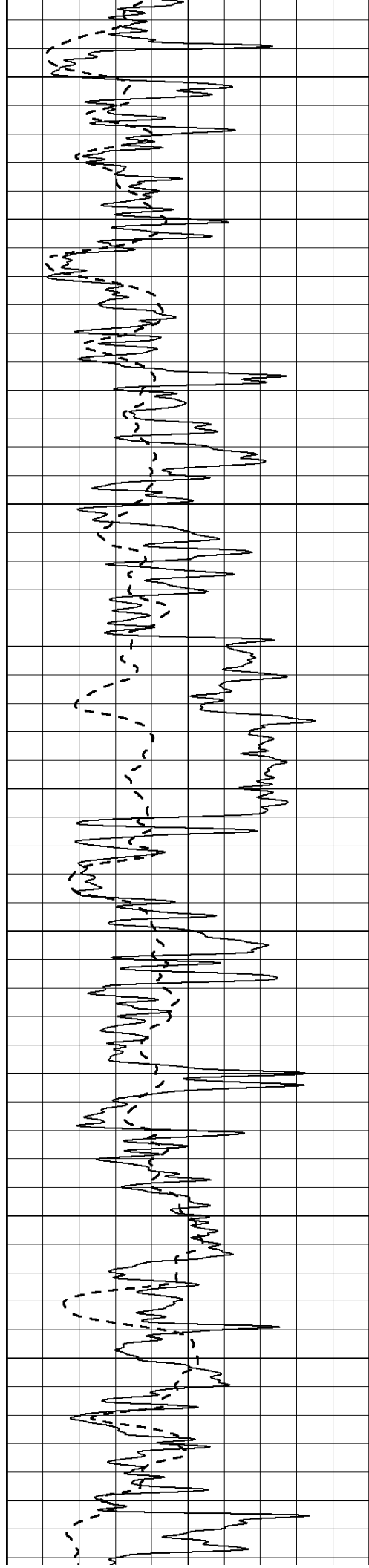
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3050

3100

3150





3200

3250

3300

3350

3400

3450

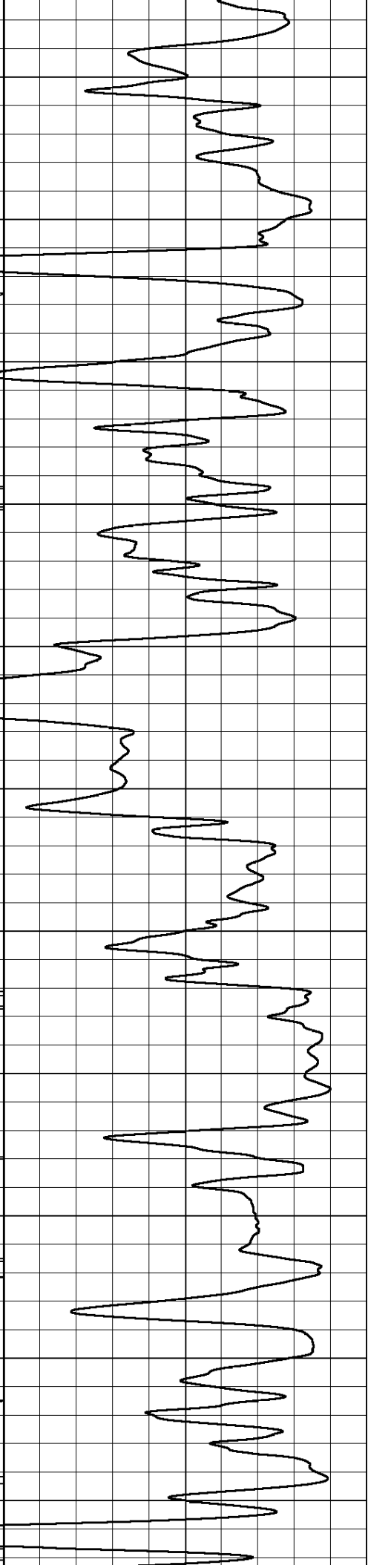
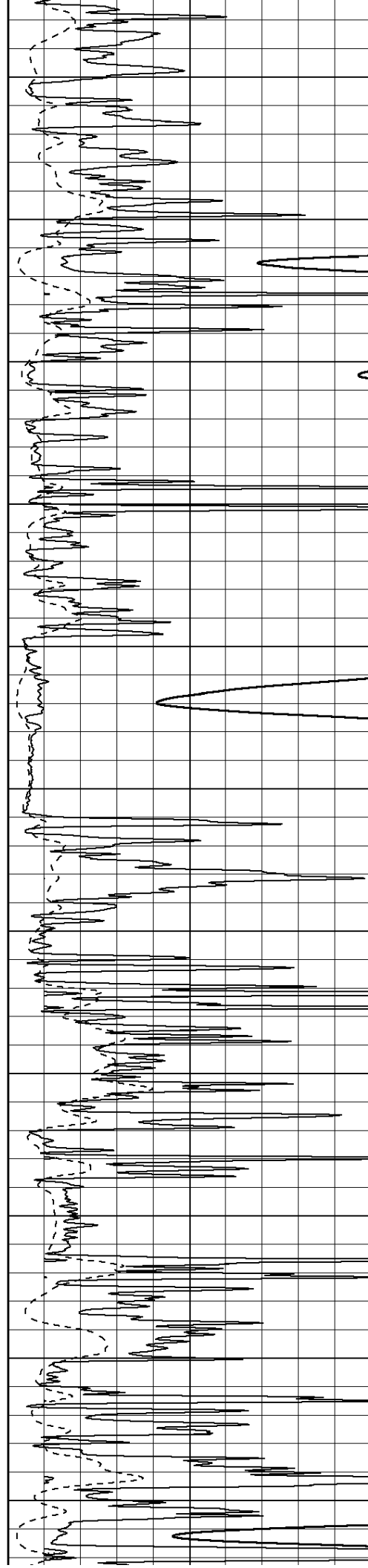
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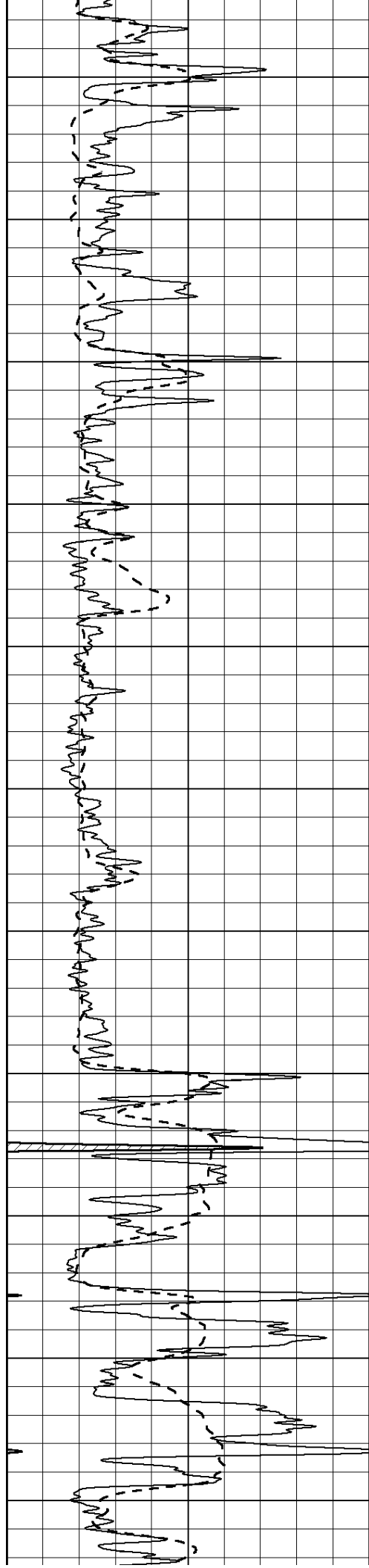
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3600

3650

3700





3750

3800

3850

3900

3950

4000

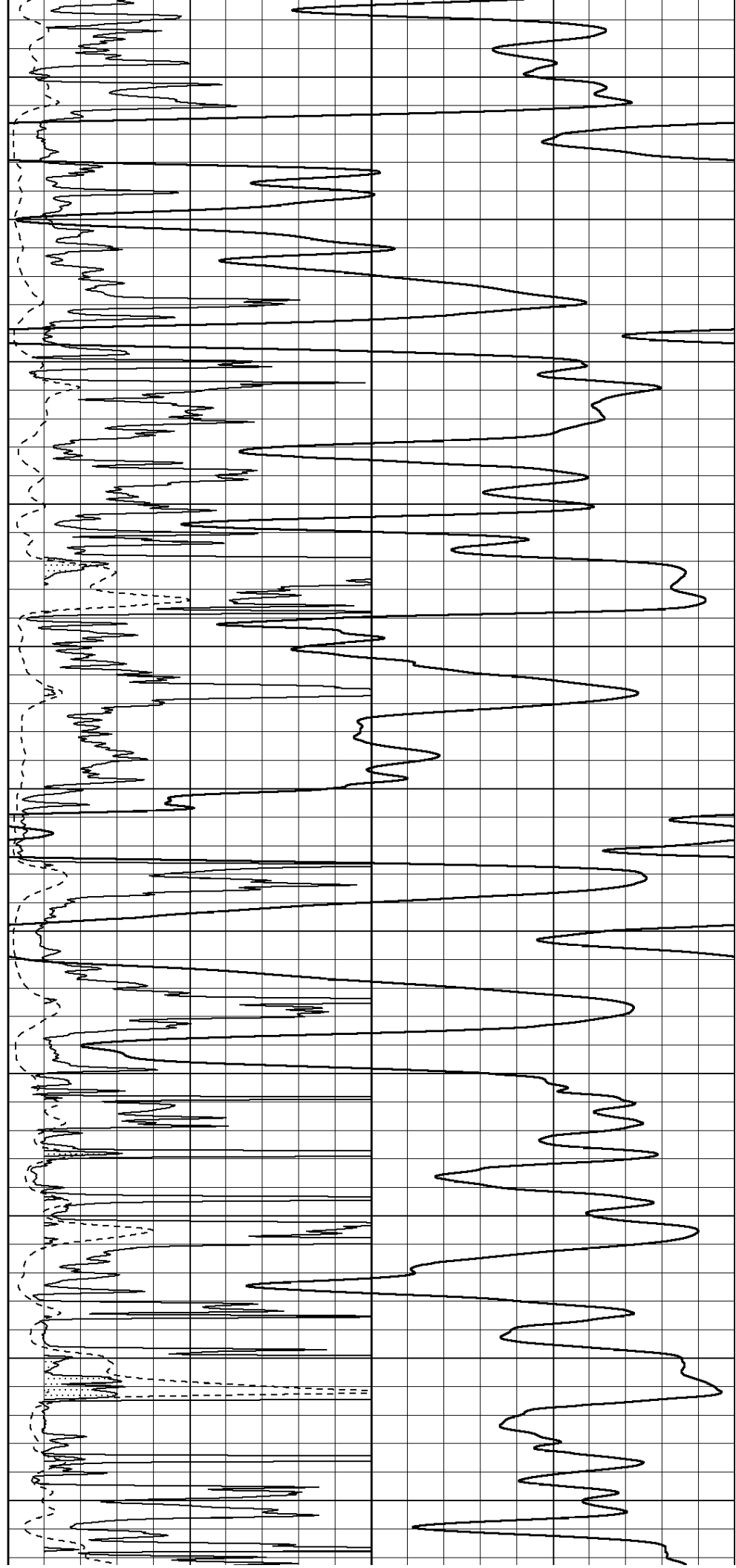
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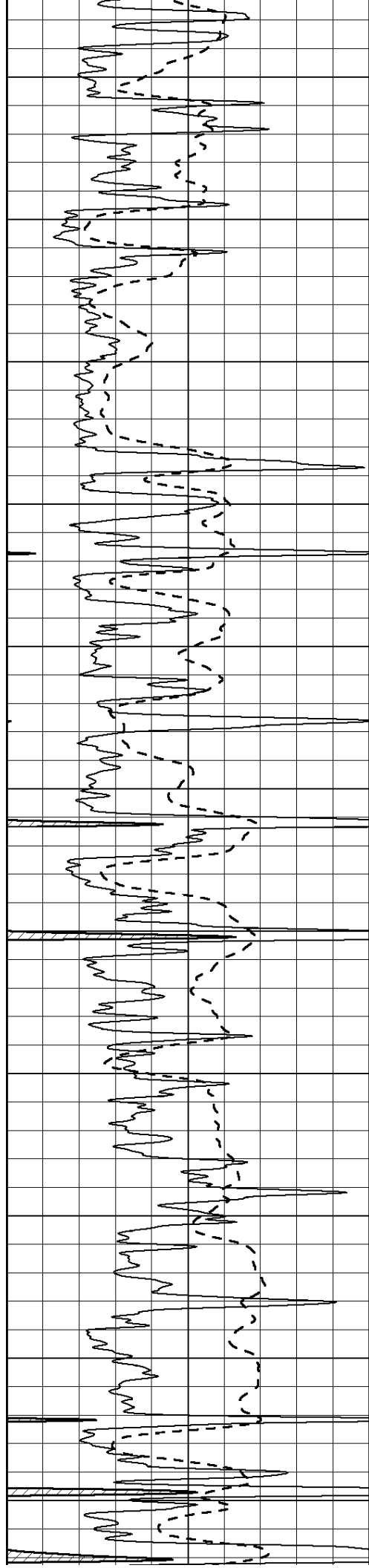
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4150

4200

4250





4300

4350

4400

4450

4500

4550

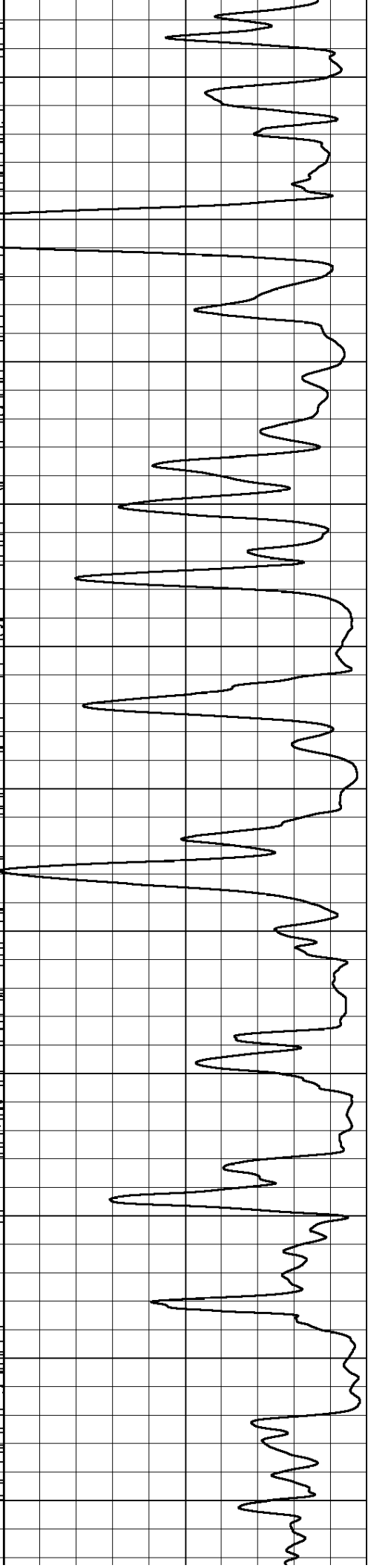
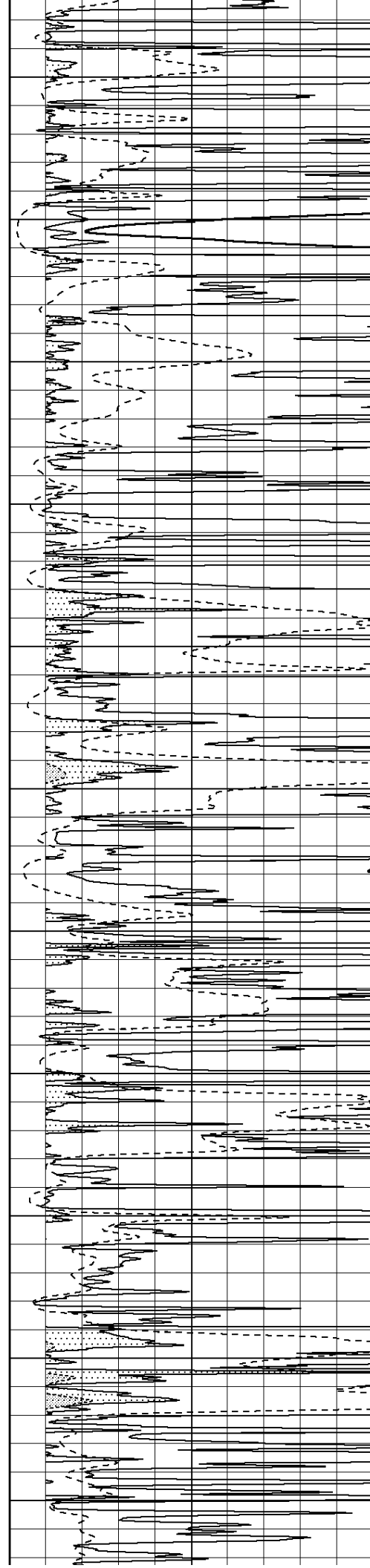
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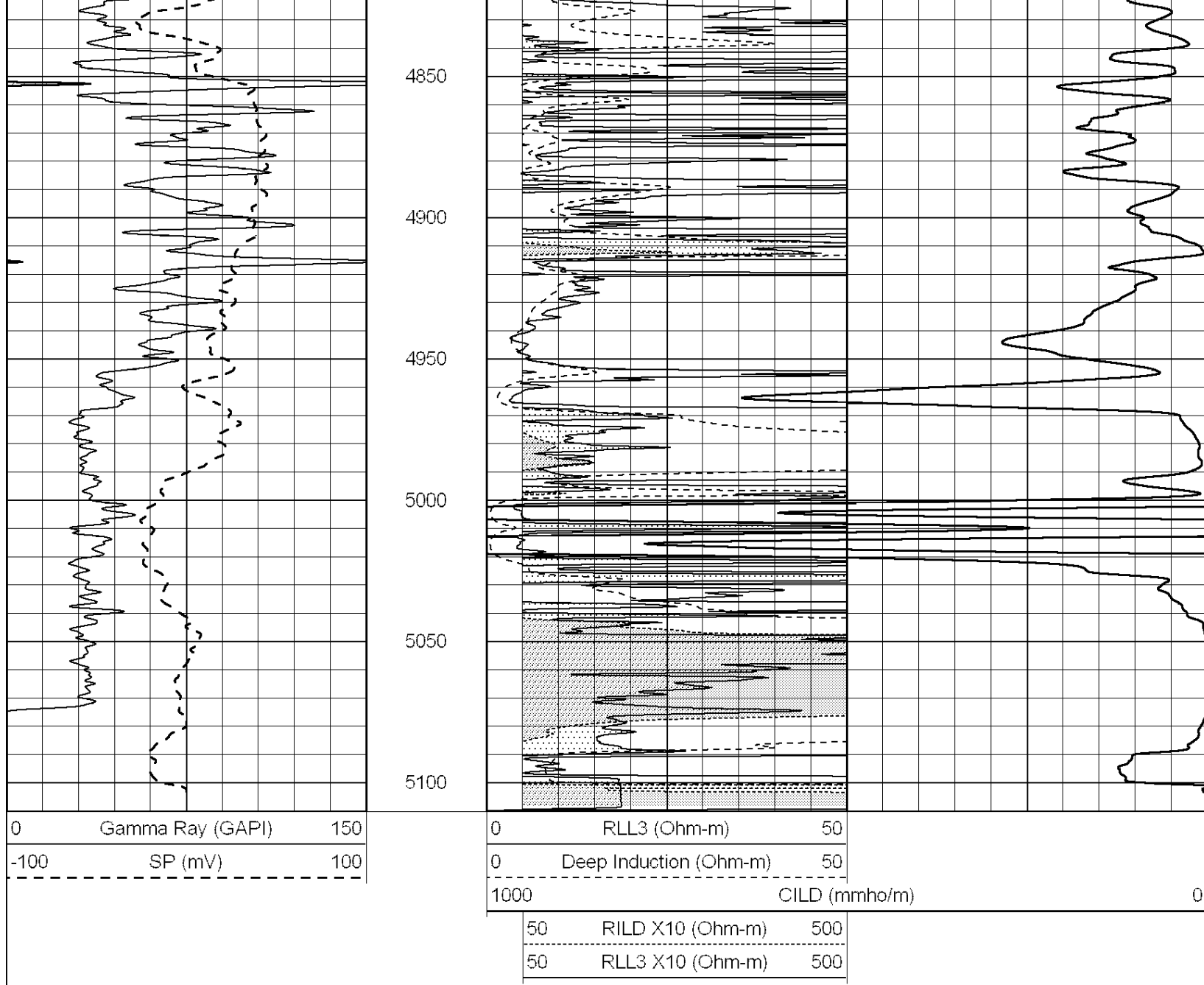
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4800

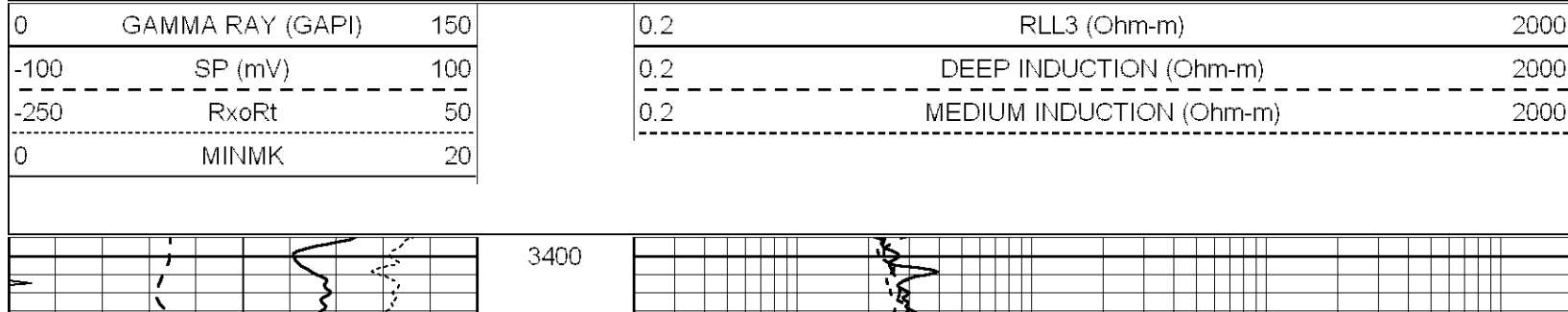


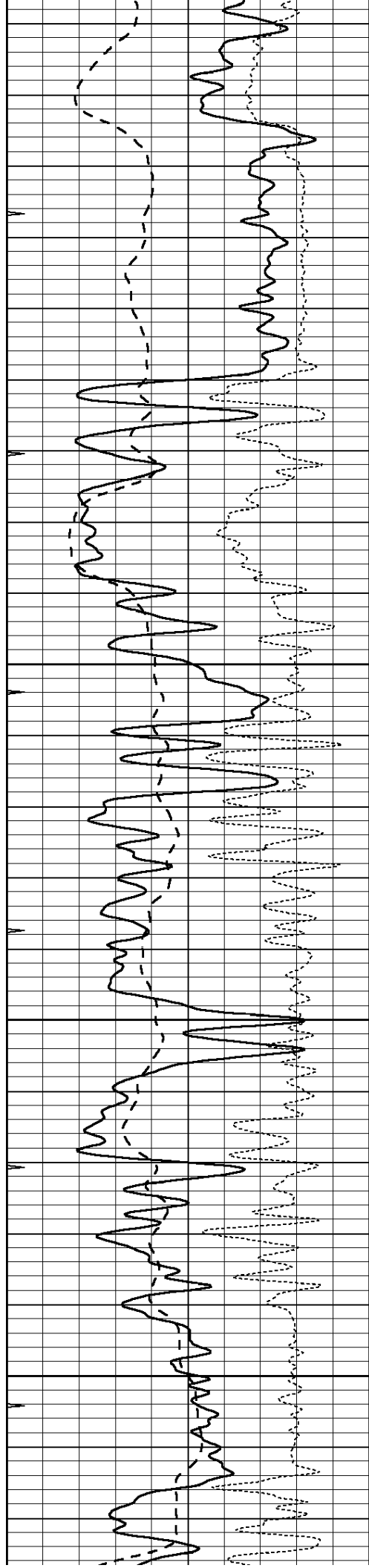


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MAIN SECTION

Database File: 001222ddn.db
Dataset Pathname: pass4.A
Presentation Format: dil
Dataset Creation: Fri Dec 30 04:02:20 2011
Charted by: Depth in Feet scaled 1:240



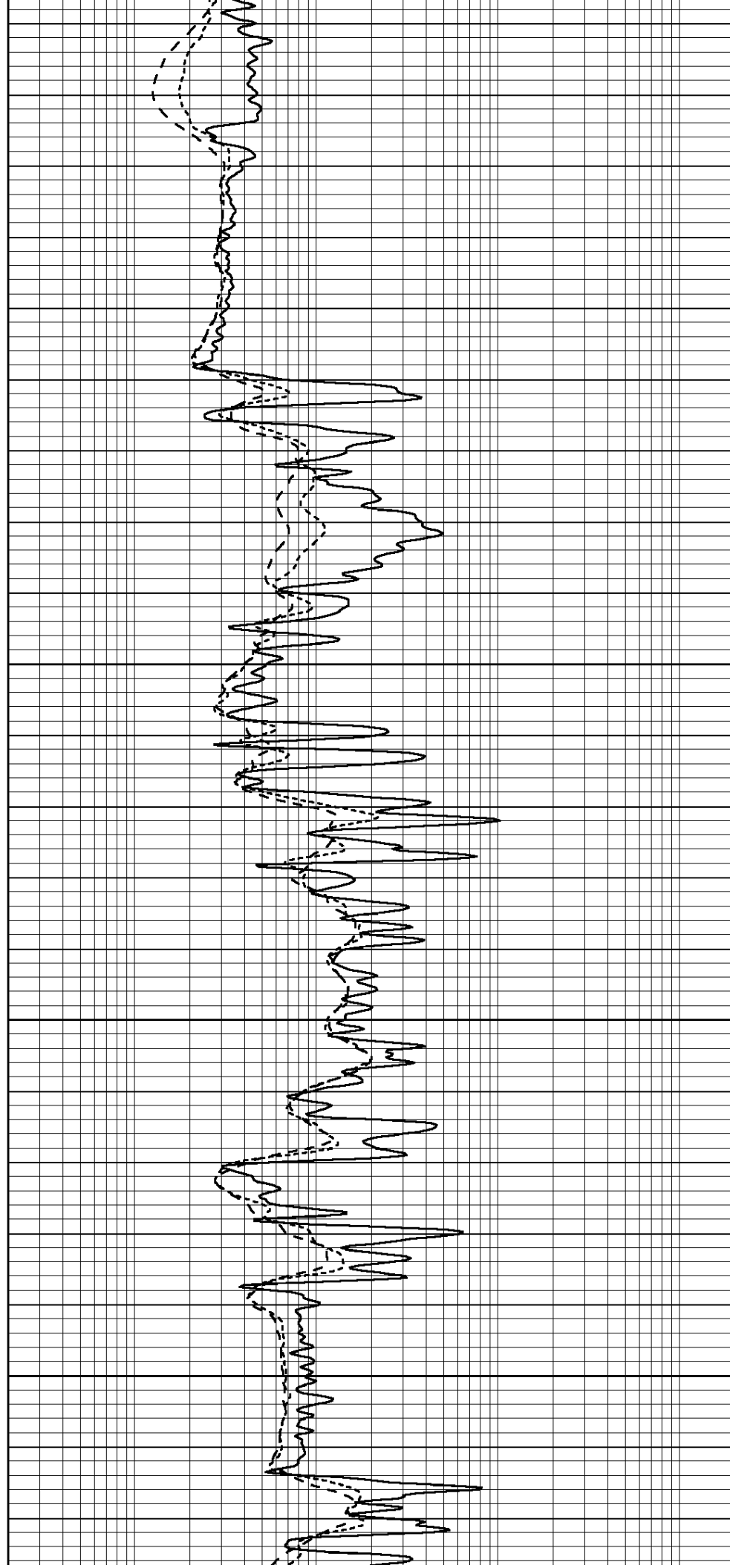


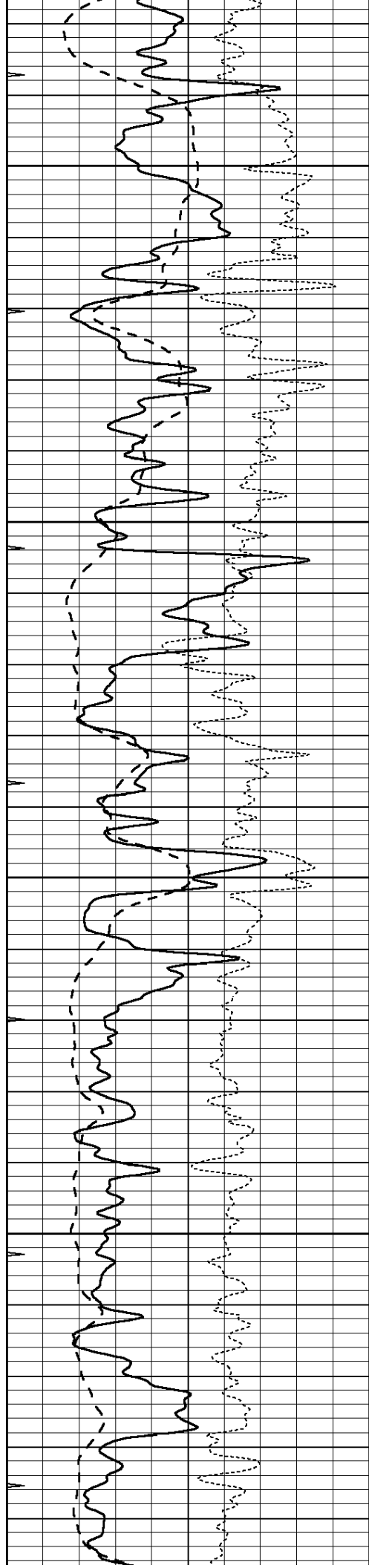
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3500

3550

3600



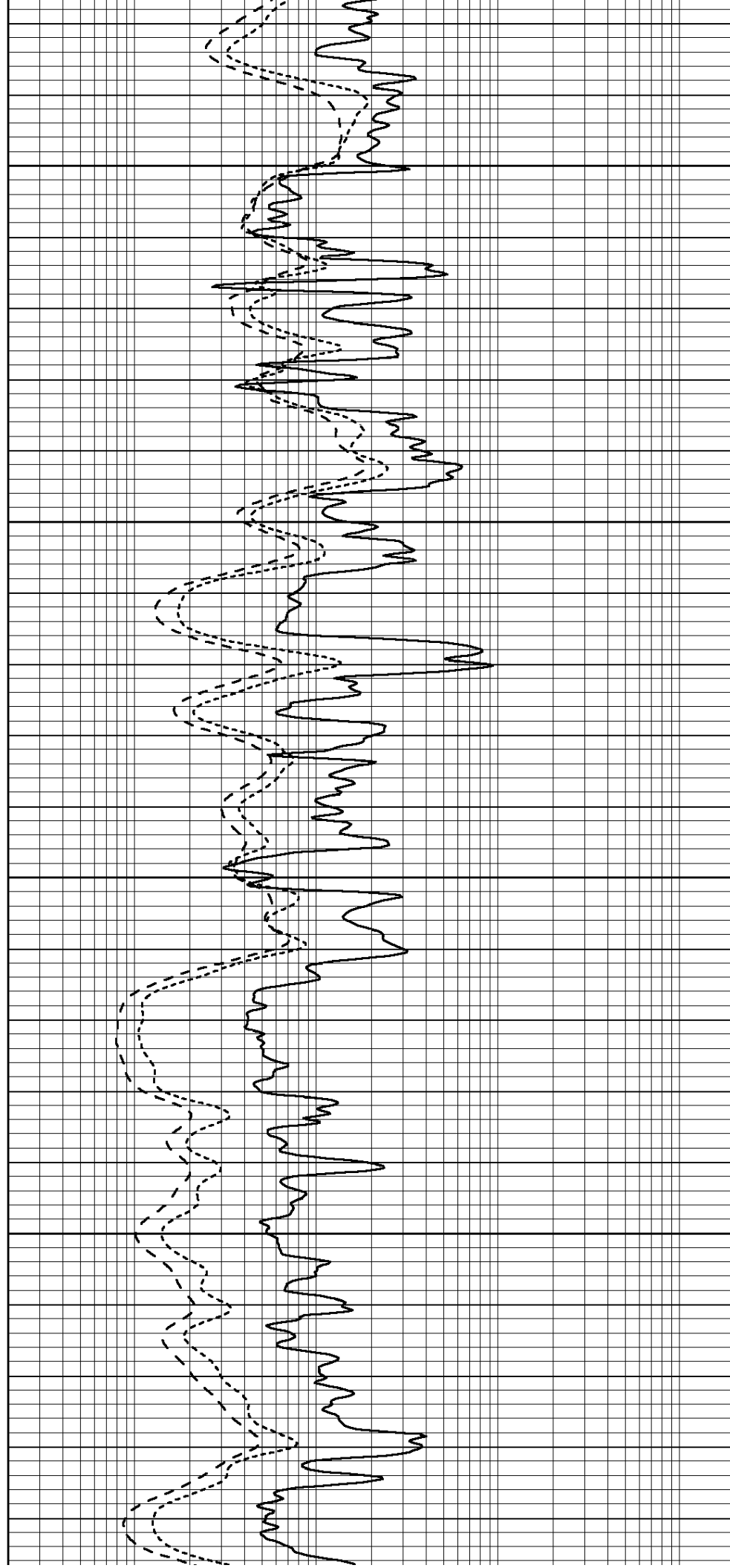


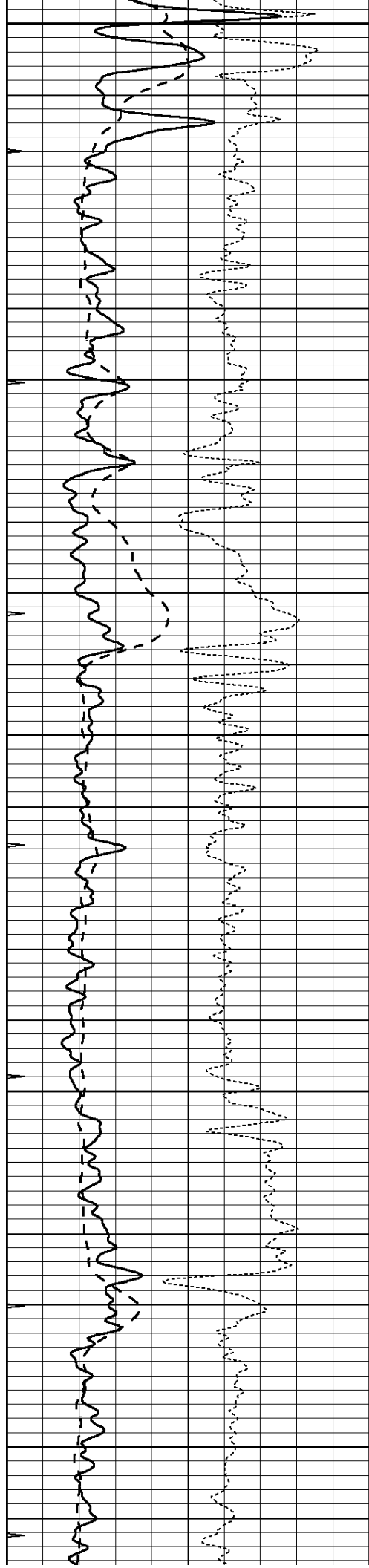
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3750

3800





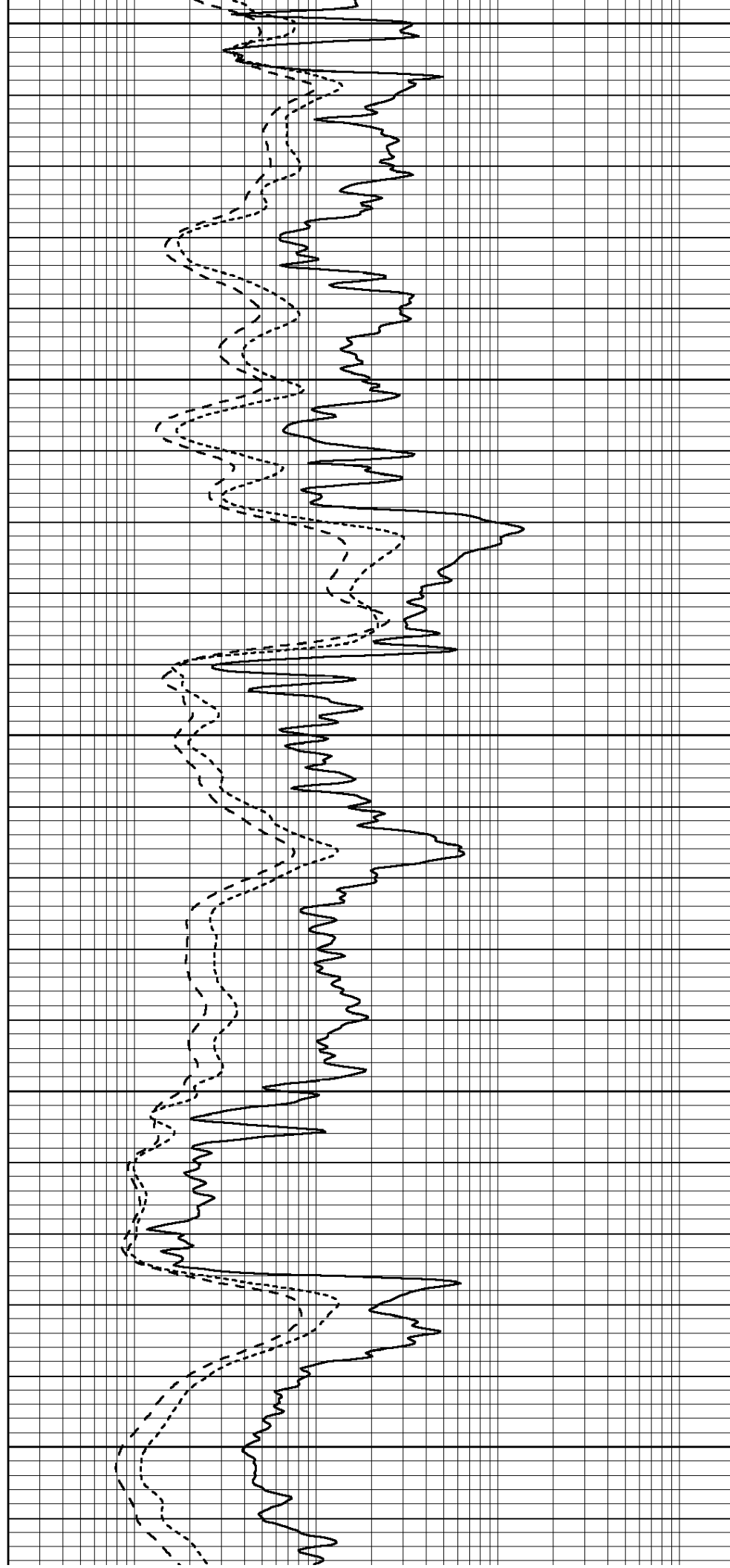
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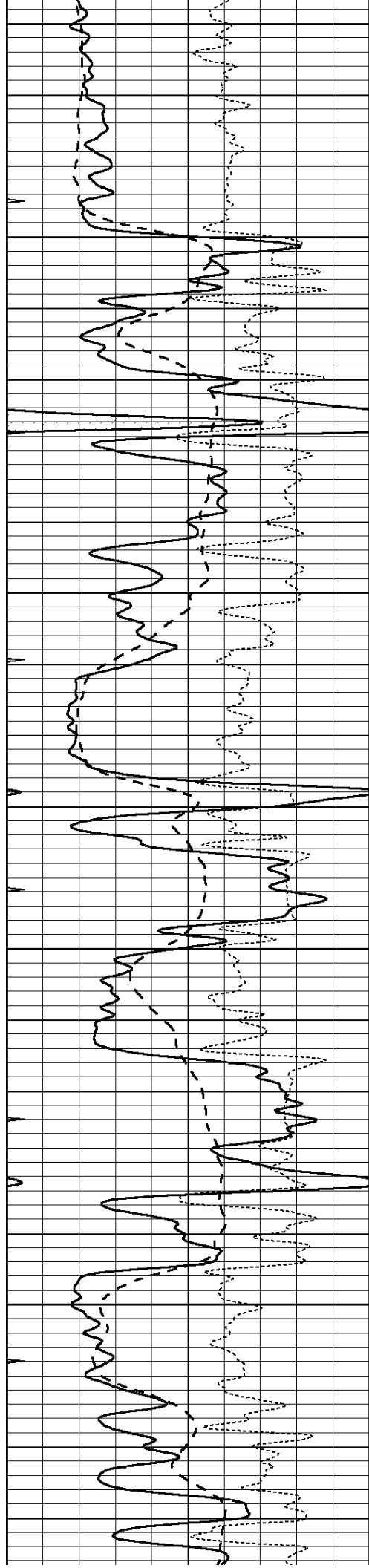
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4000

4050



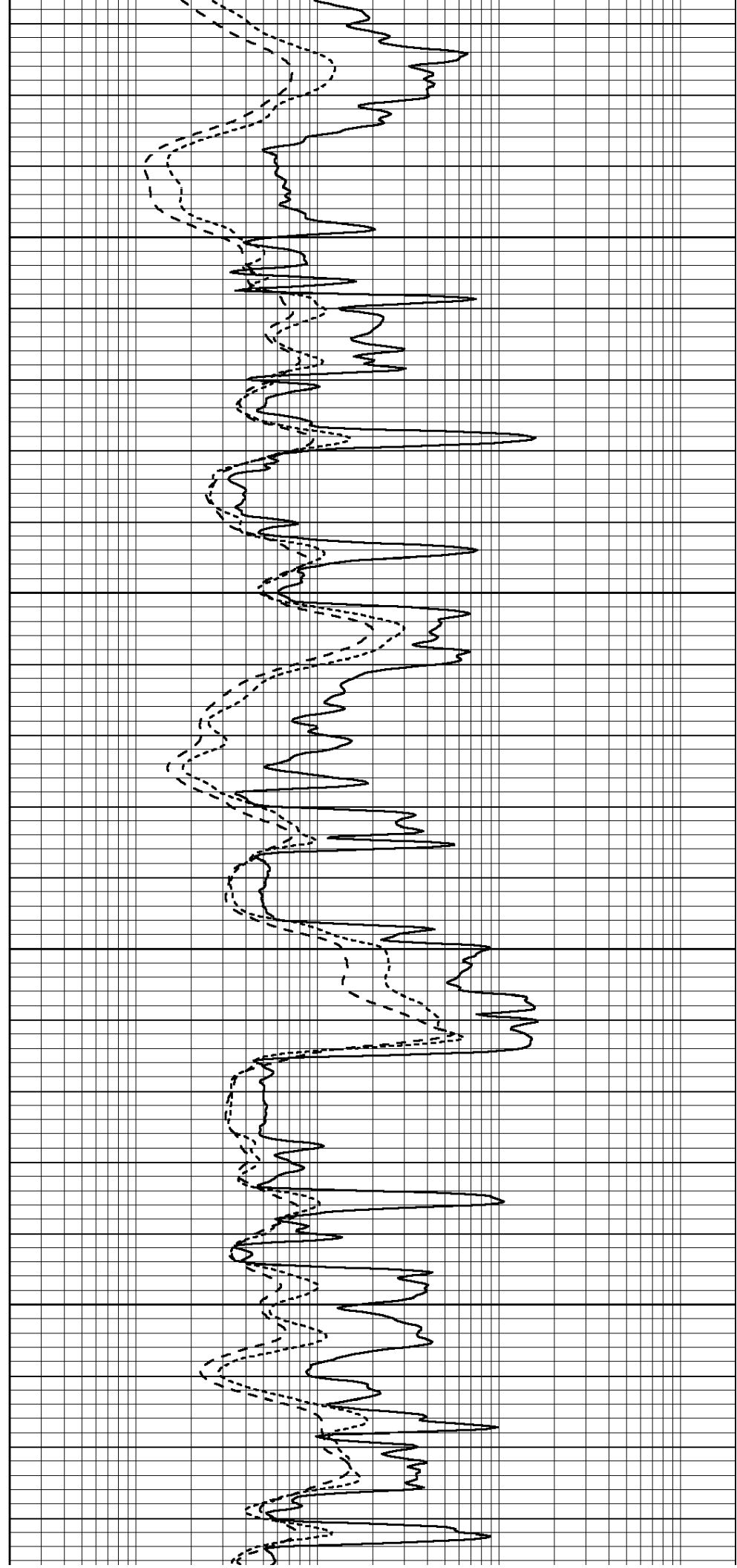


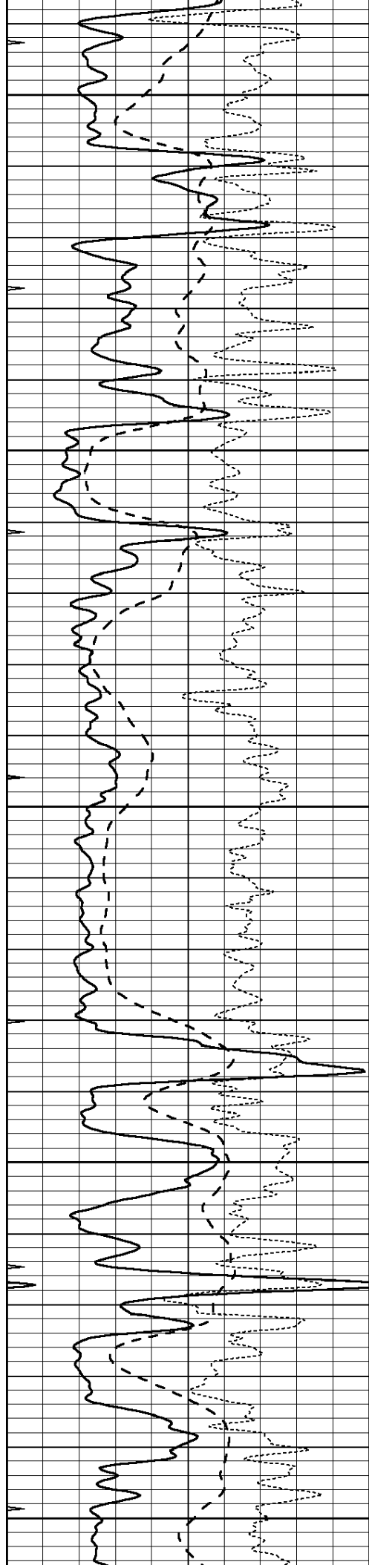
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4150

4200

4250





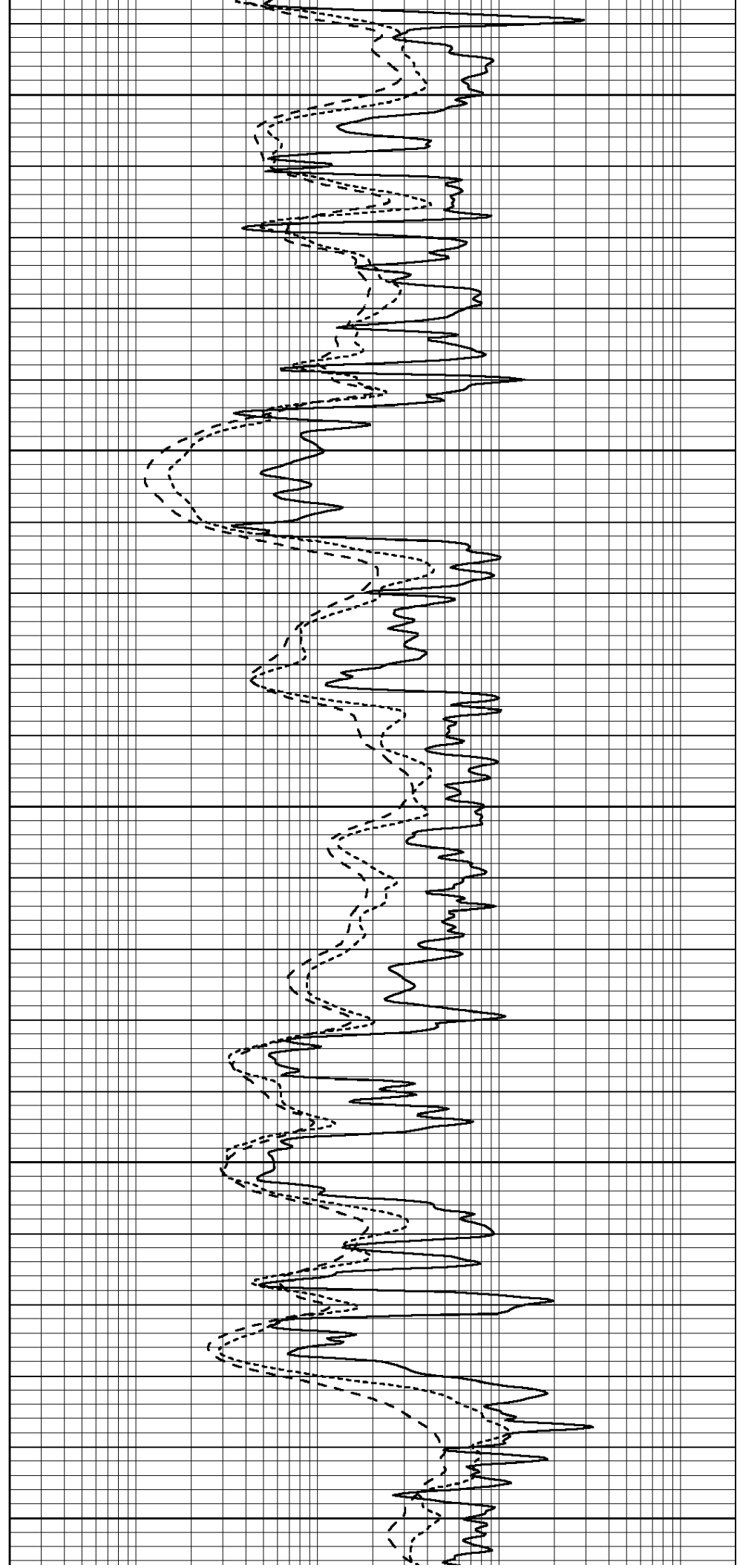
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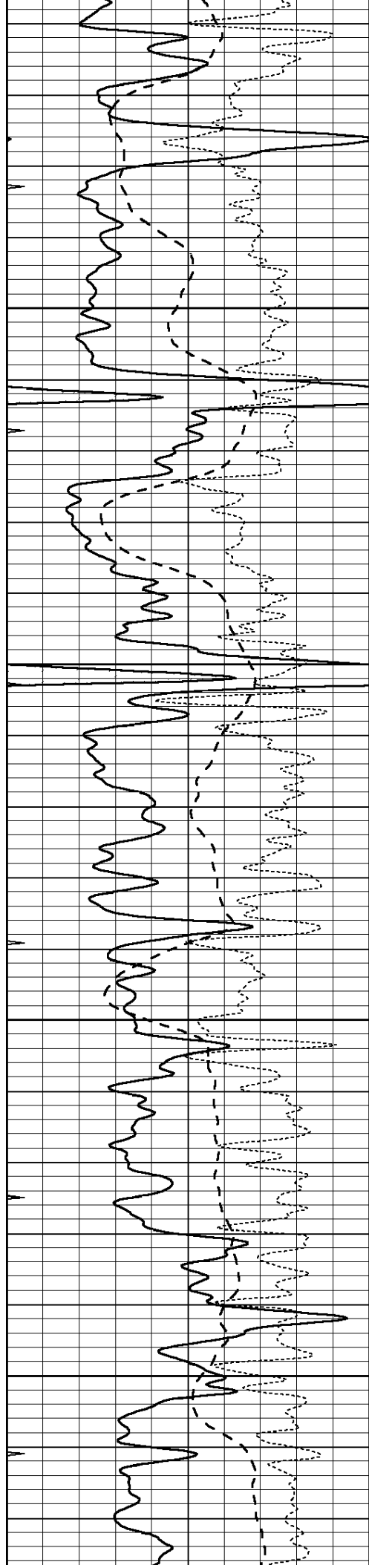
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4500



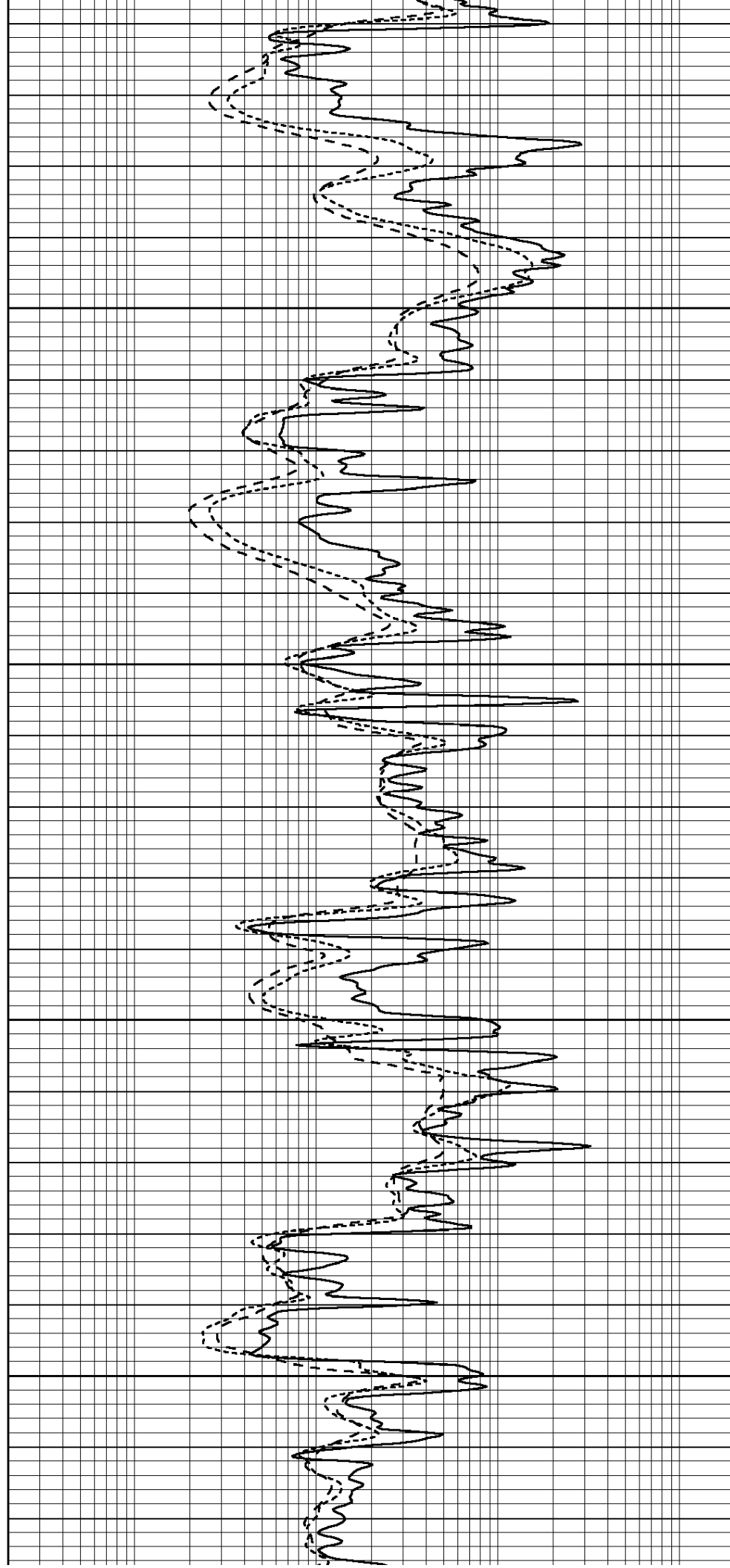


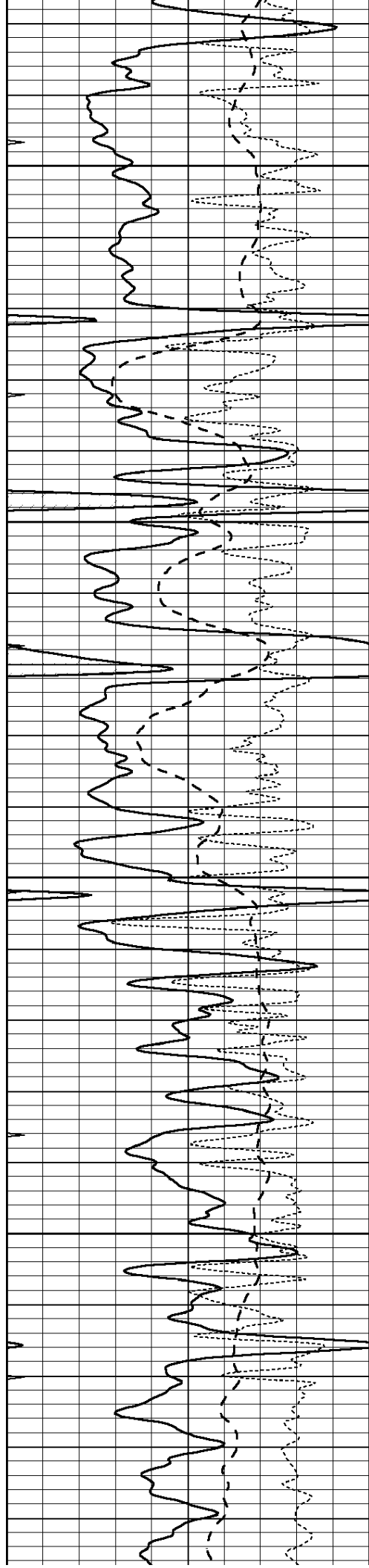
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4700



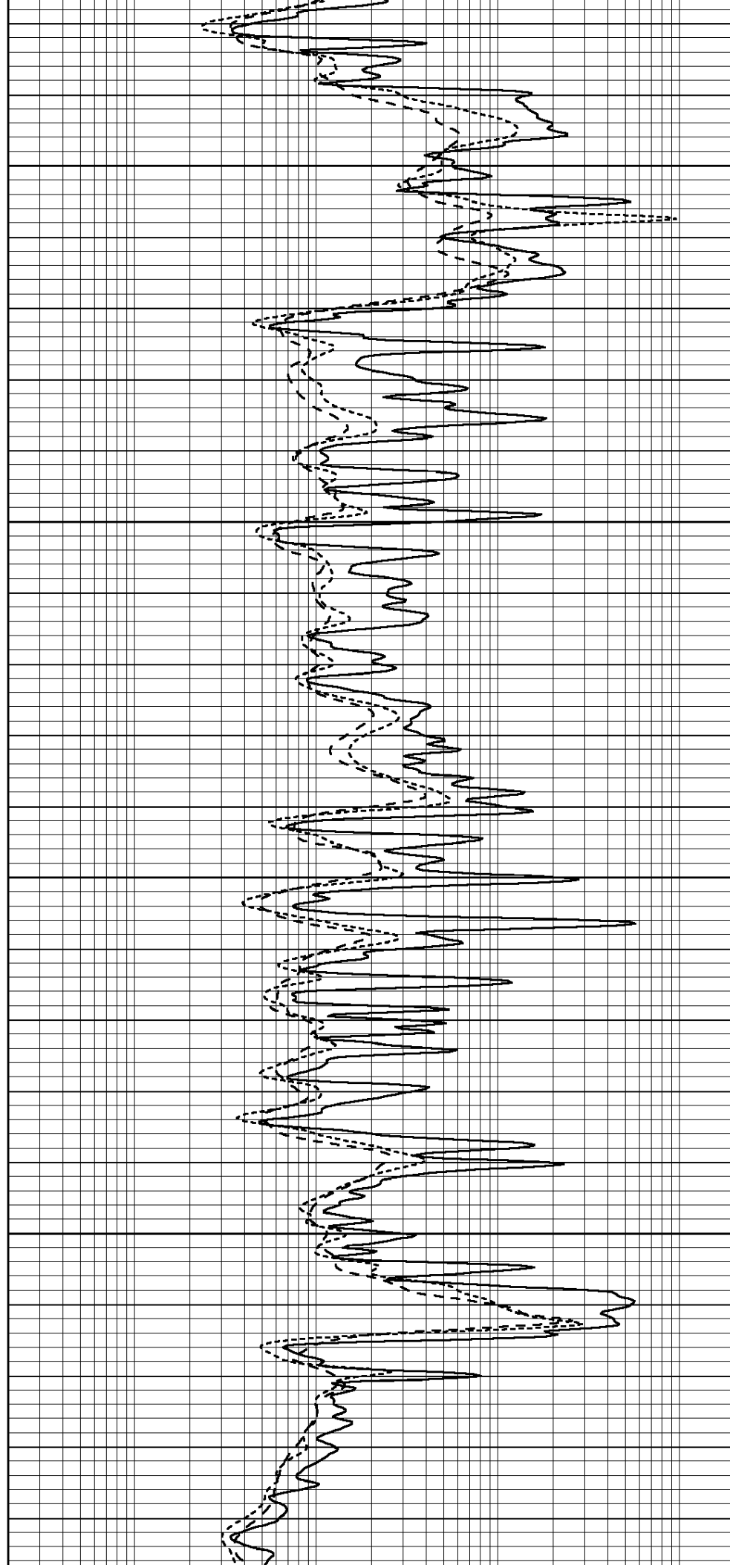


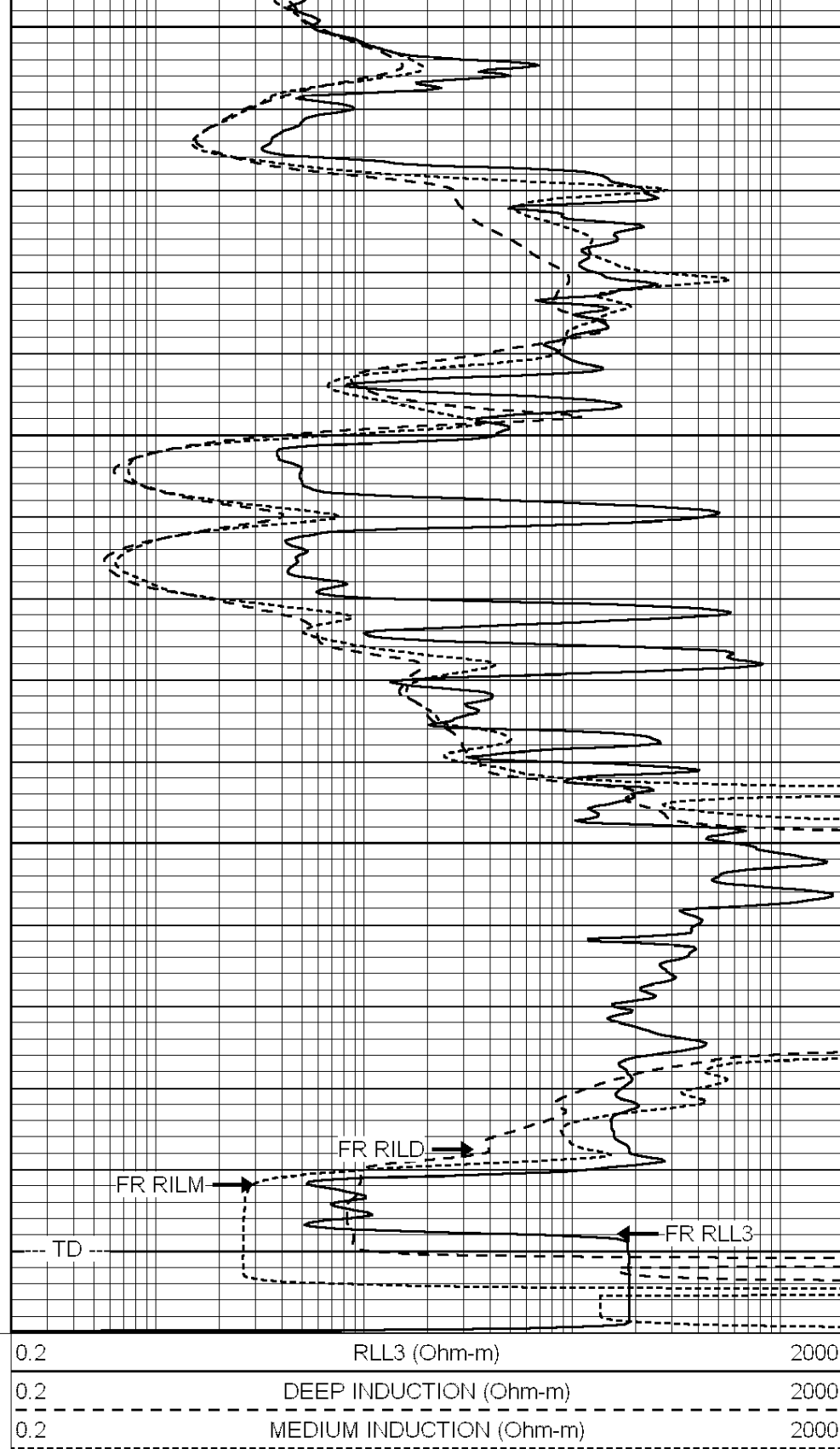
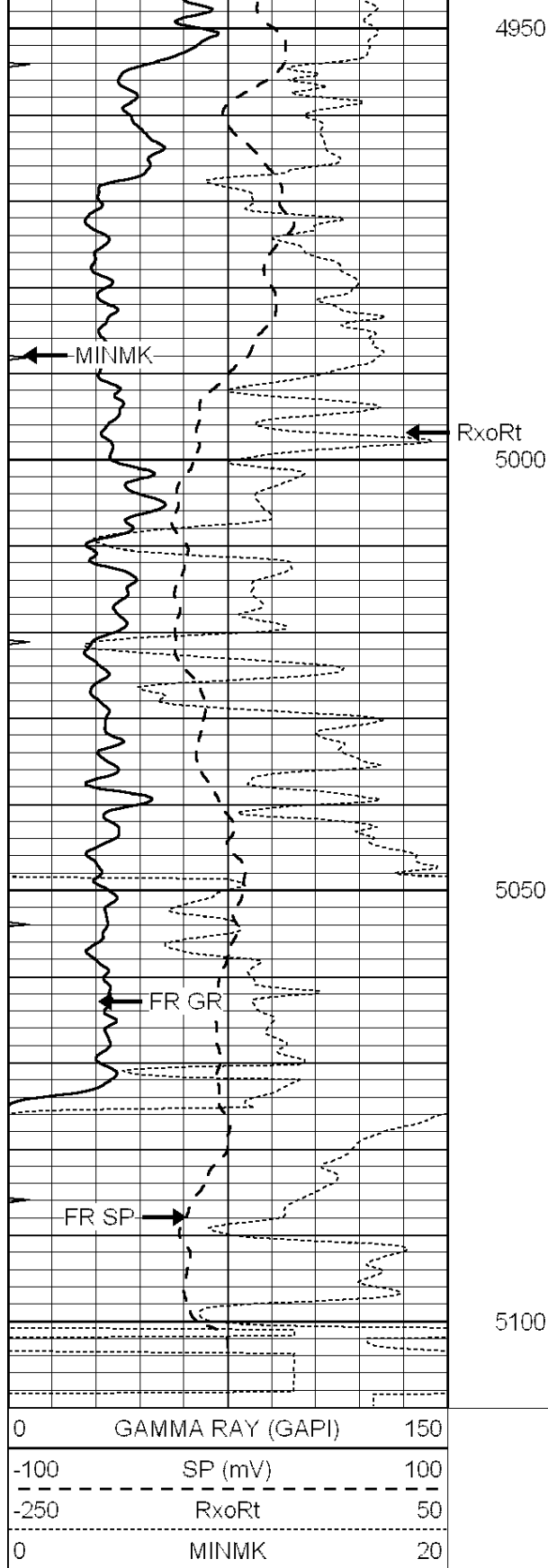
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4850

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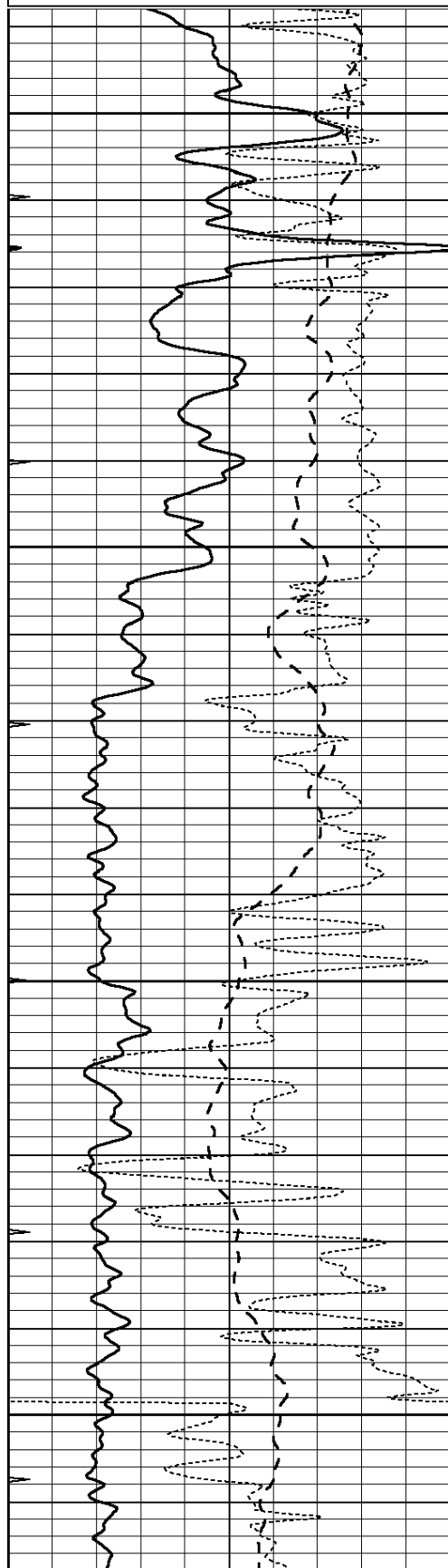


SUPERIOR
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REPEAT SECTION

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	RxoRt	50
0	MINMK	20

0.2	RLL3 (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000

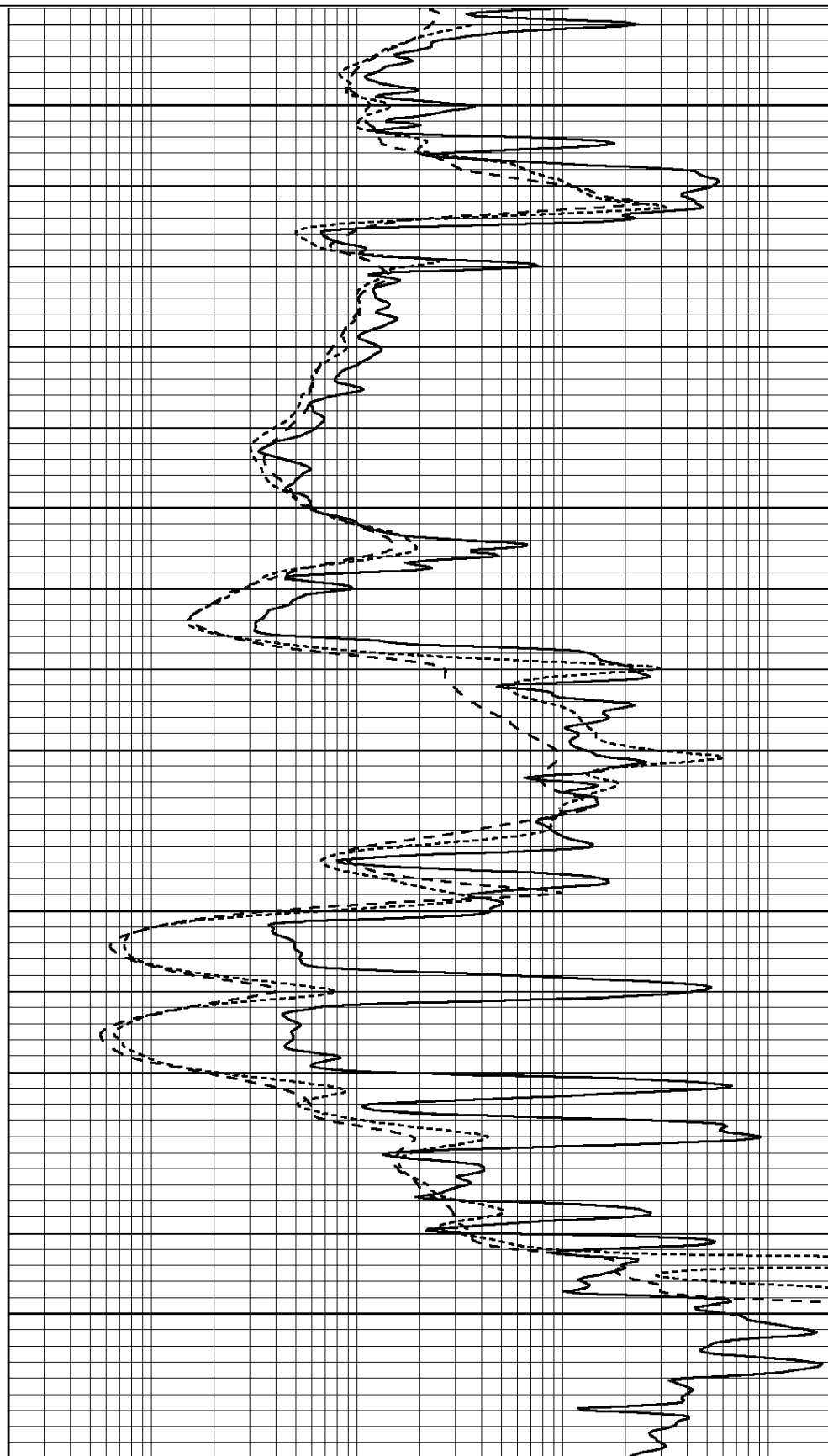


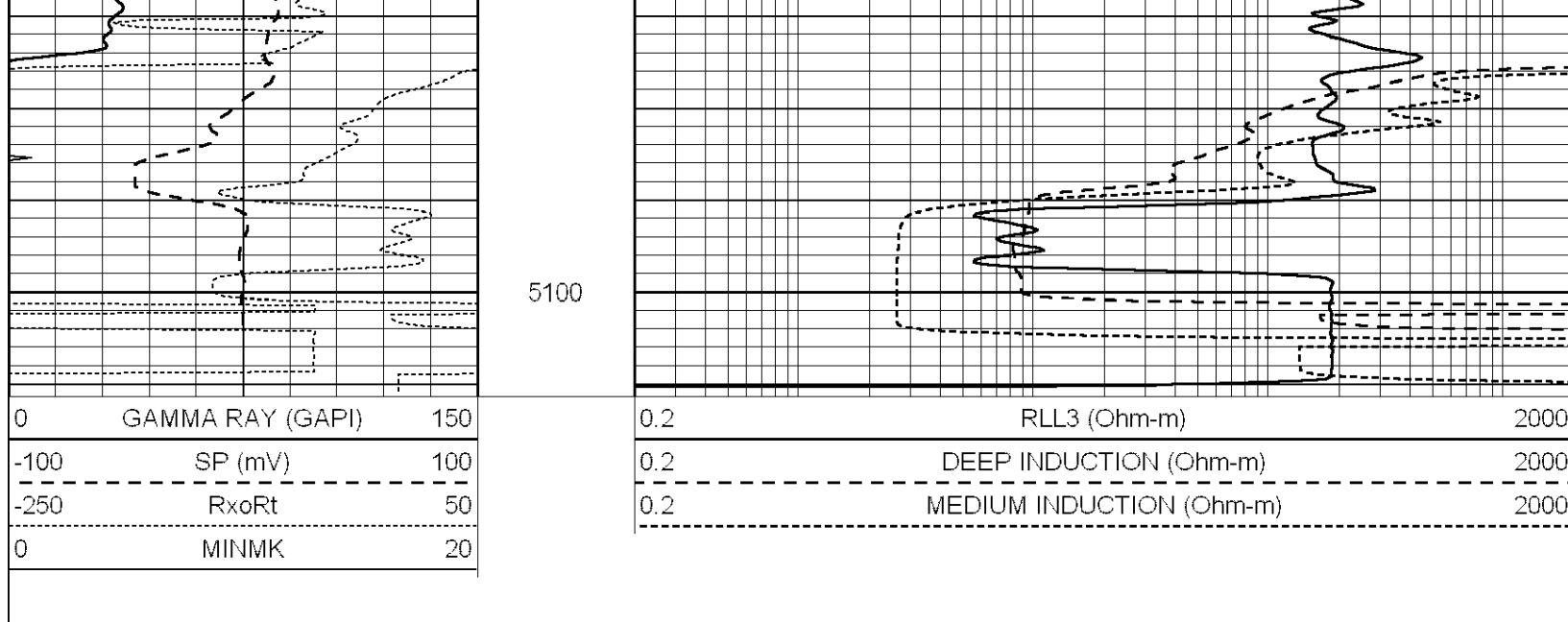
4900

4950

5000

5050





Calibration Report

Database File: 001222ddn.db
 Dataset Pathname: pass4.A
 Dataset Creation: Fri Dec 30 04:02:20 2011

Dual Induction Calibration Report

Serial-Model: DIL5-GEAR
 Performed: Fri Dec 30 00:16:59 2011

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.004	0.654	V	0.000	400.000	mmho/m	540.000	-18.000
Medium	-0.005	0.737	V	0.000	462.500	mmho/m	550.000	-12.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.006	0.655	V	0.000	400.000	mmho/m	615.668	-3.483
Medium	0.010	0.747	V	0.000	462.500	mmho/m	627.607	-6.064

Compensated Density Calibration Report

Serial-Model: GEAR1-GEARHART
 Source / Verifier: 147 / 147
 Master Calibration Performed: Fri Dec 30 00:16:36 2011

Master Calibration

	Density			Far Detector		Near Detector	
Magnesium	1.710	g/cc		1243.76		629.14	cps
Aluminum	2.590	g/cc		282.16		435.01	cps
Spine Angle = 76.03				Density/Spine Ratio = 0.576			
	Size			Reading			
Small Ring	8.80	in		3.47	V		
Large Ring	14.00	in		5.80	V		

Compensated Neutron Calibration Report

Serial Number: NUE_2I
 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:

GR5

Tool Model:

OPEN

Performed:

Fri Dec 30 00:15:59 2011

Calibrator Value:

1.0

GAPI

Background Reading:

0.0

cps

Calibrator Reading:

1.0

cps

Sensitivity:

0.6500

GAPI/cps