



**SUPERIOR
Hays,
Kansas**

DUAL INDUCTION LOG

Company	RITCHIE EXPLORATION, INC.		
Well	PINKNEY - ROHR #1		
Field	WILDCAT		
County	FORD	State	KANSAS
Location:	API # : 15-057-20751		Other Services
1210' FNL & 907' FEL		CDL/CNL	
SEC 8 TWP 28S RGE 22W		Elevation	
Permanent Datum	GROUND LEVEL	Elevation	2377
Log Measured From	KELLY BUSHING 11' A.G.L.	K.B.	2388
Drilling Measured From	KELLY BUSHING	D.F.	
		G.L.	2377
Date	9-25-11		
Run Number	ONE		
Depth Driller	5170		
Depth Logger	5170		
Bottom Logged Interval	5168		
Top Log Interval	00		
Casing Driller	372		
Casing Logger	372		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES:	9.800 ppm
Density / Viscosity	8.9 / 69		
pH / Fluid Loss	10.5 / 9.2		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	0.50 @ 82F		
Rmf @ Meas. Temp	0.38 @ 82F		
Rmc @ Meas. Temp	0.60 @ 82F		
Source of Rmf / Rmc	MEASURED		
Rm @ BHT	.330 @ 126F		
Time Circulation Stopped	3 HOURS		
Time Logger on Bottom	8:00 P.M.		
Maximum Recorded Temperature	126F		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	RUPP		
Witnessed By	DAVE WILLIAMS		

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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: FORD & #400, 1.2N, 1/2W, 1/2S INTO.



**SUPERIOR
Hays,
Kansas**

MAIN SECTION

Database File: 007744ddn.db
Dataset Pathname: pass3.1A
Presentation Format: dil2
Dataset Creation: Sun Sep 25 22:16:45 2011
Charted by: Depth in Feet scaled 1:600

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

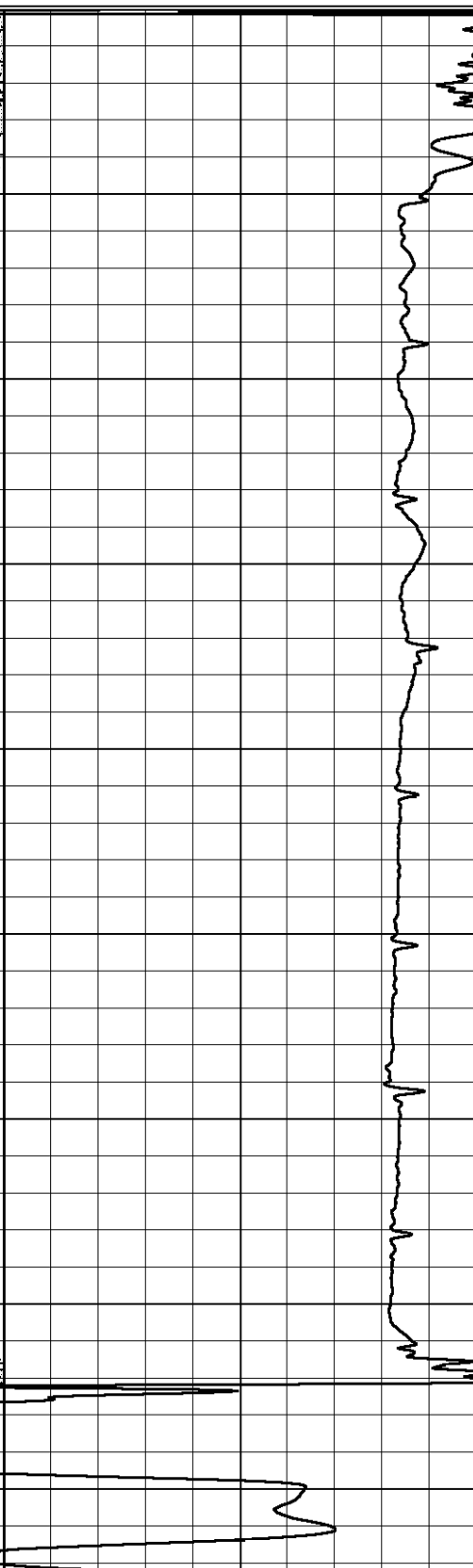
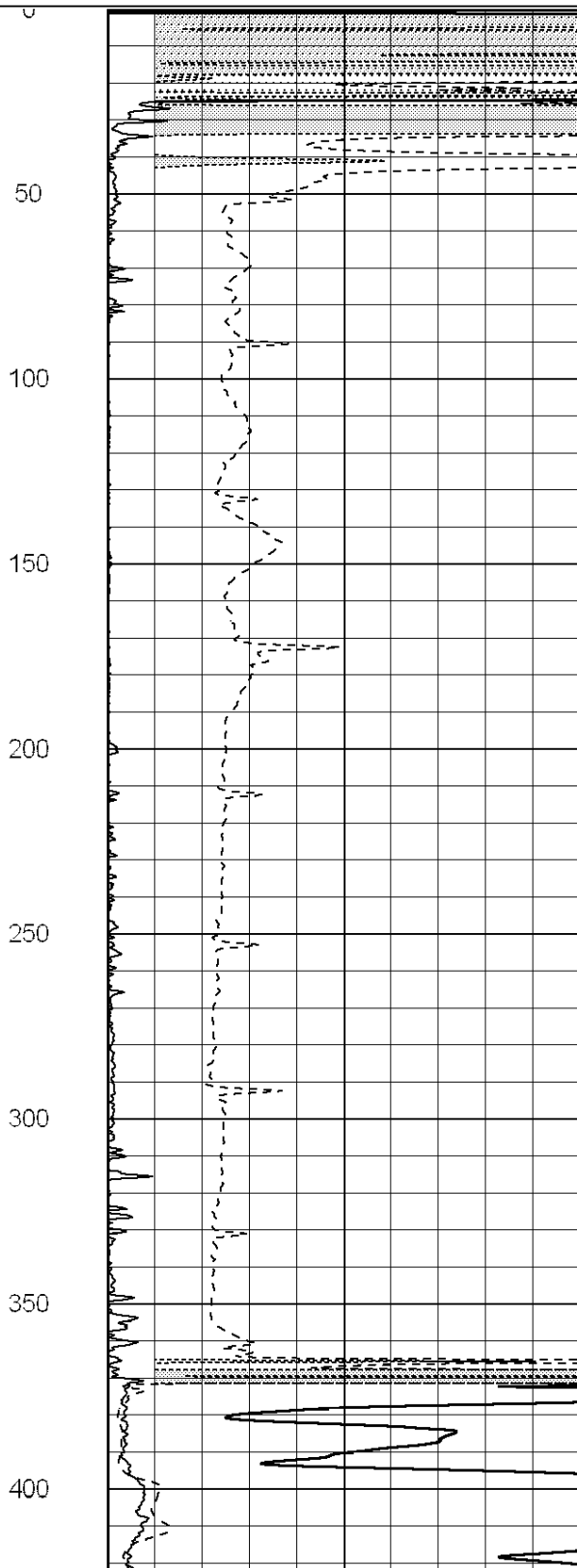
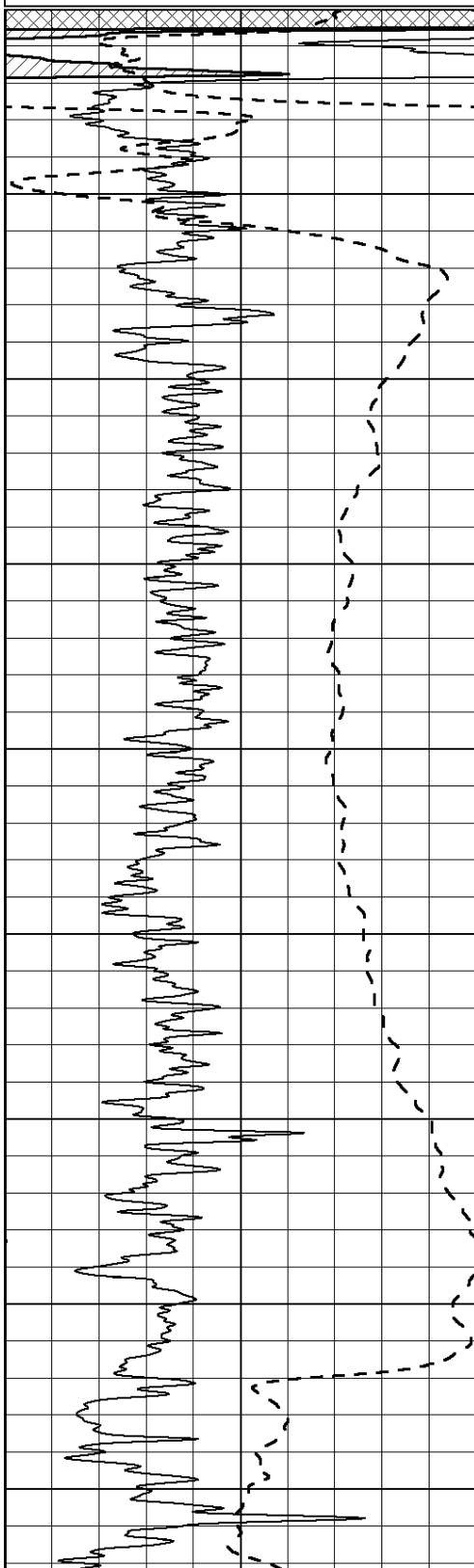
0	RLL3 (Ohm-m)	50
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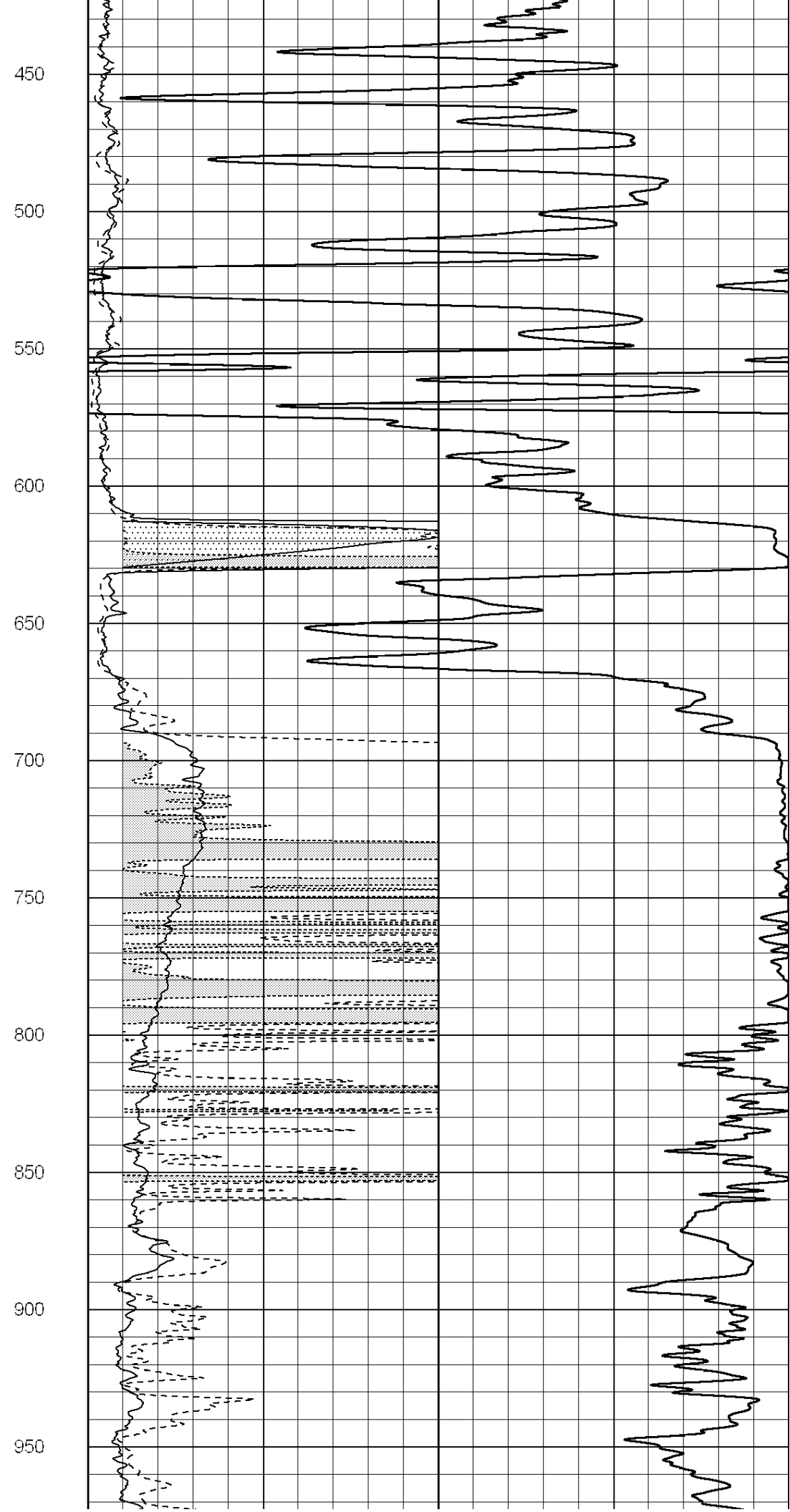
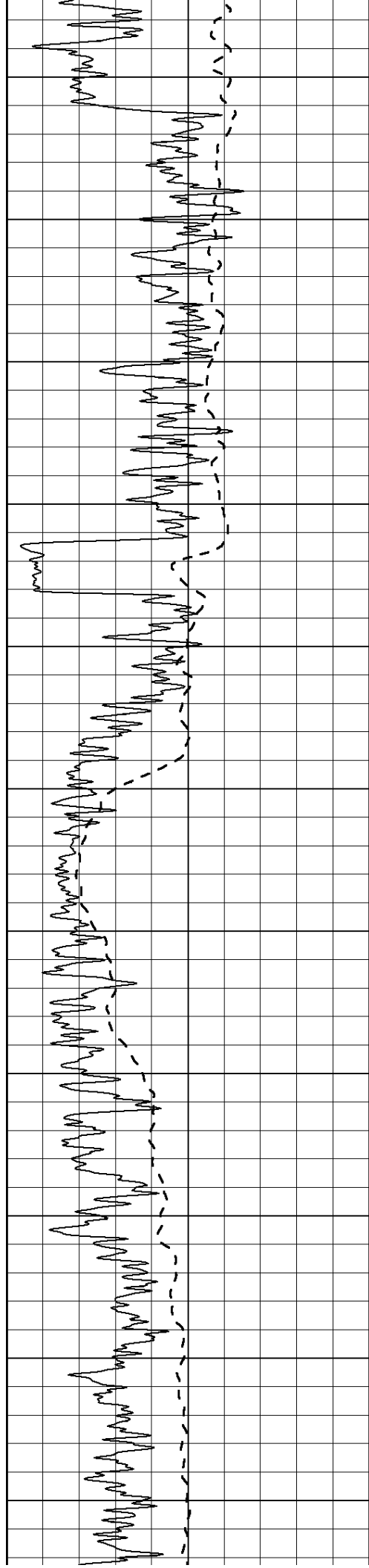
0	Deep Induction (Ohm-m)	50
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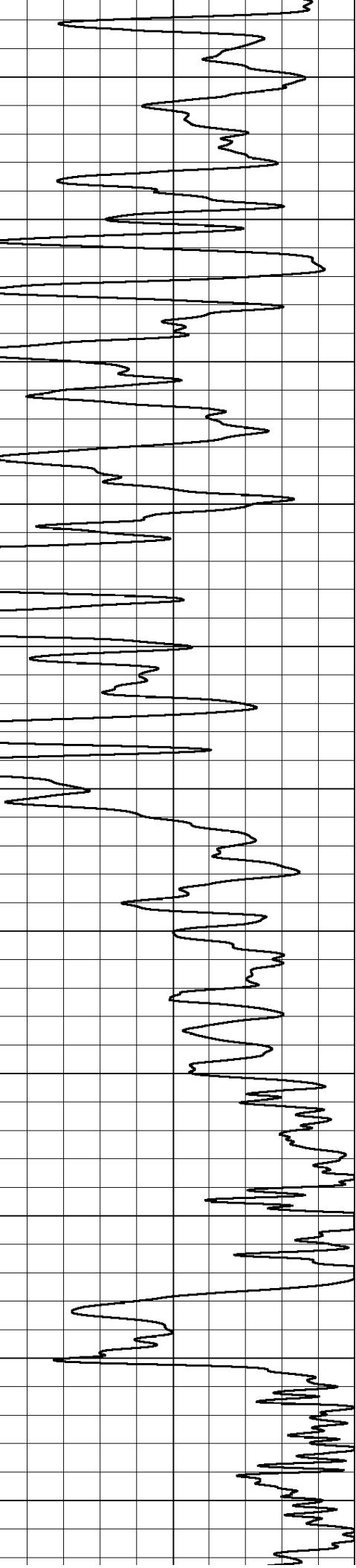
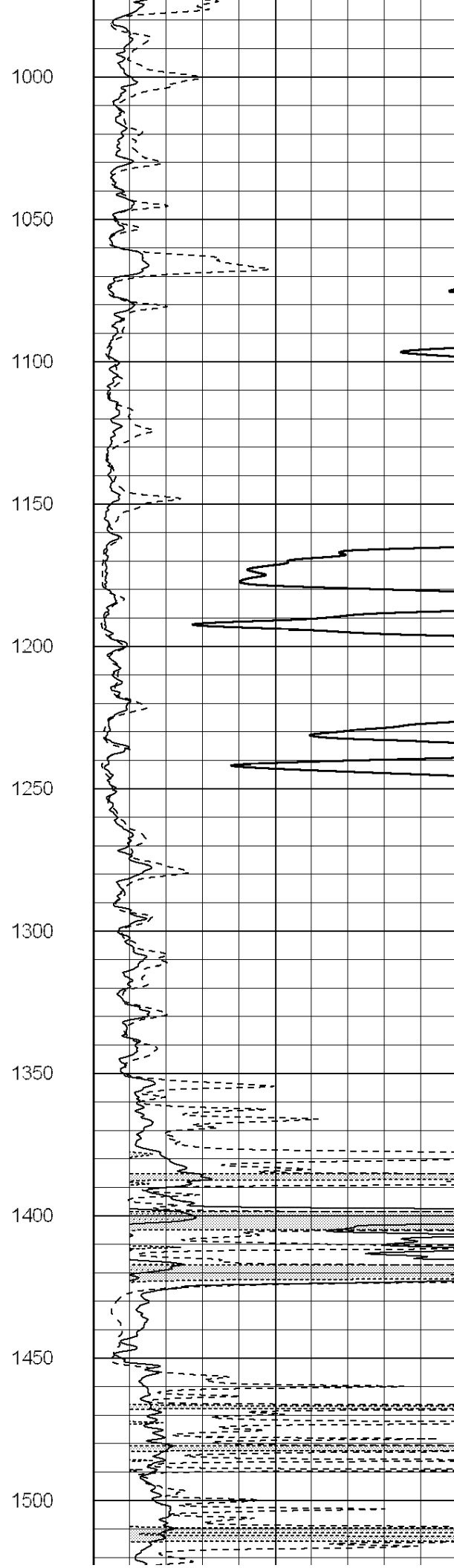
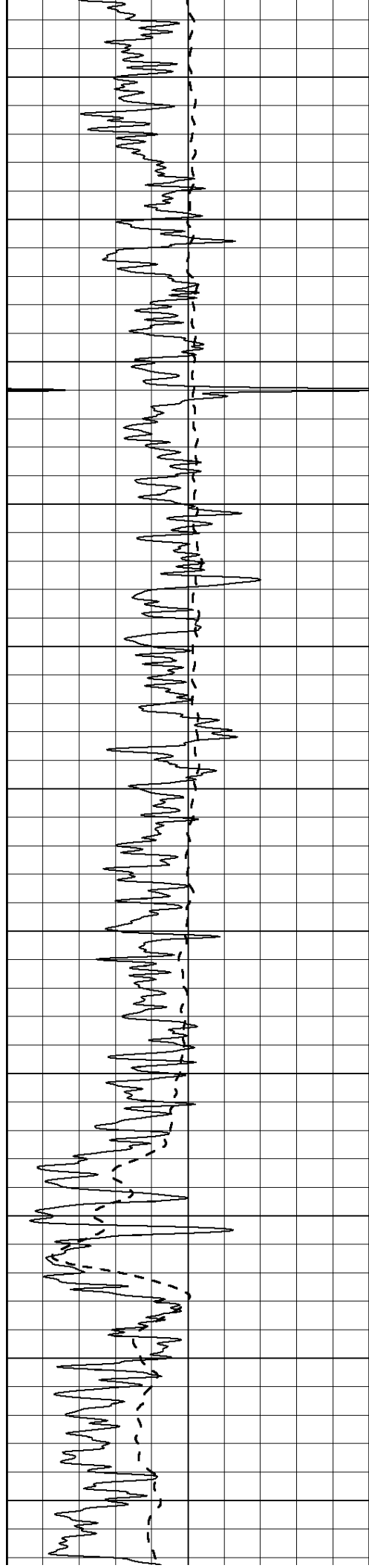
1000	CILD (mmho/m)	0
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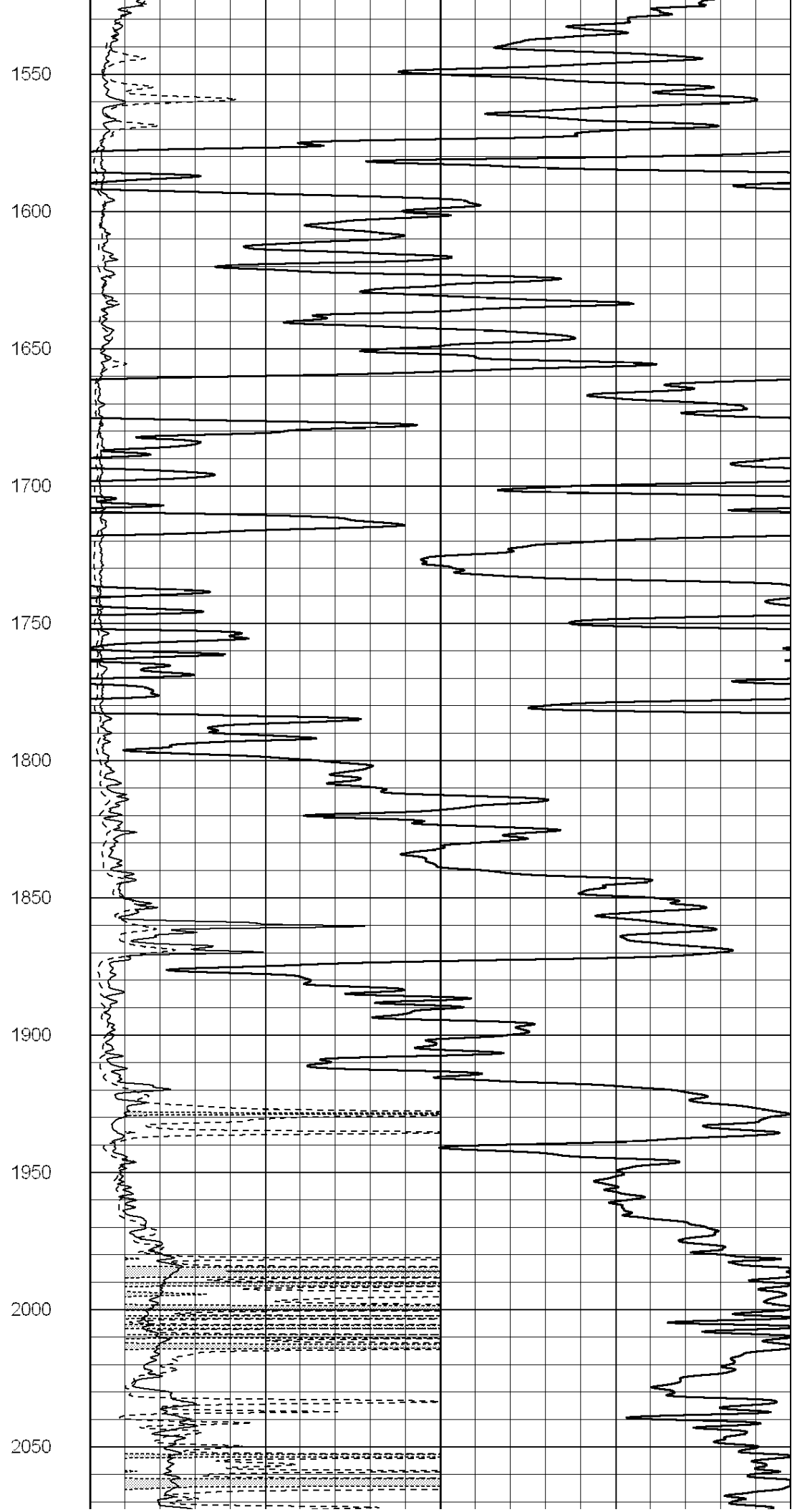
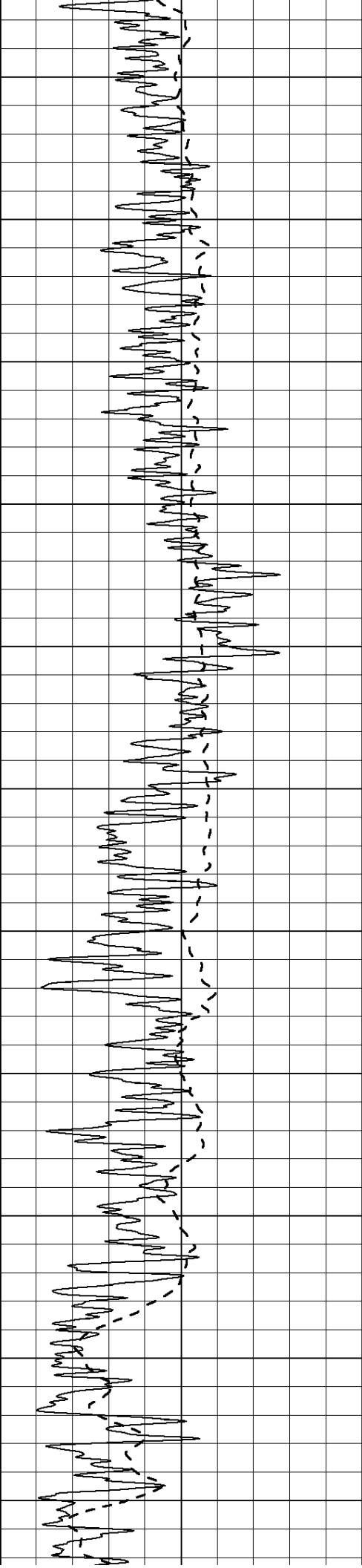
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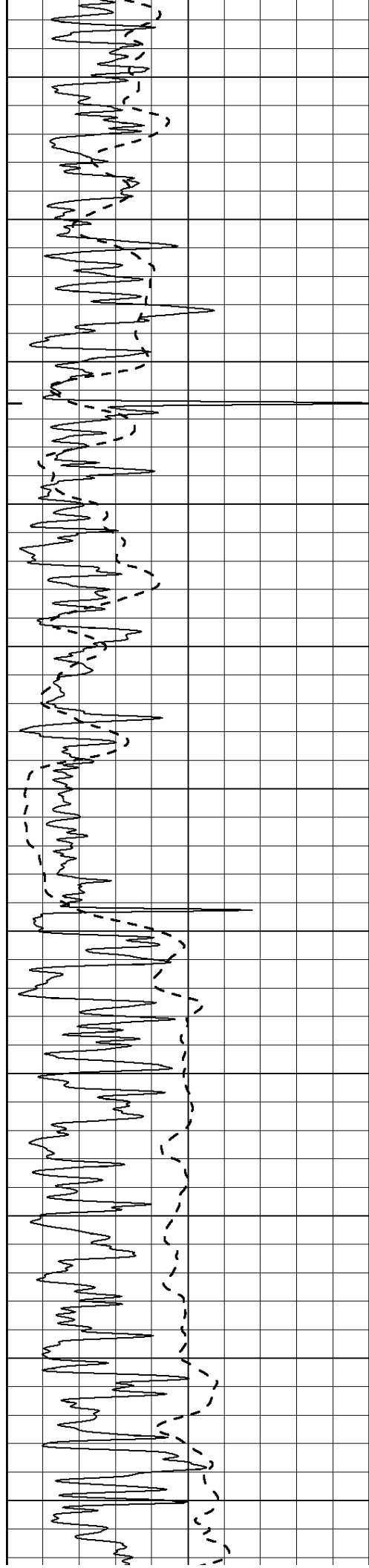
50	RLL3 X10 (Ohm-m)	500
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2100

2150

2200

2250

2300

2350

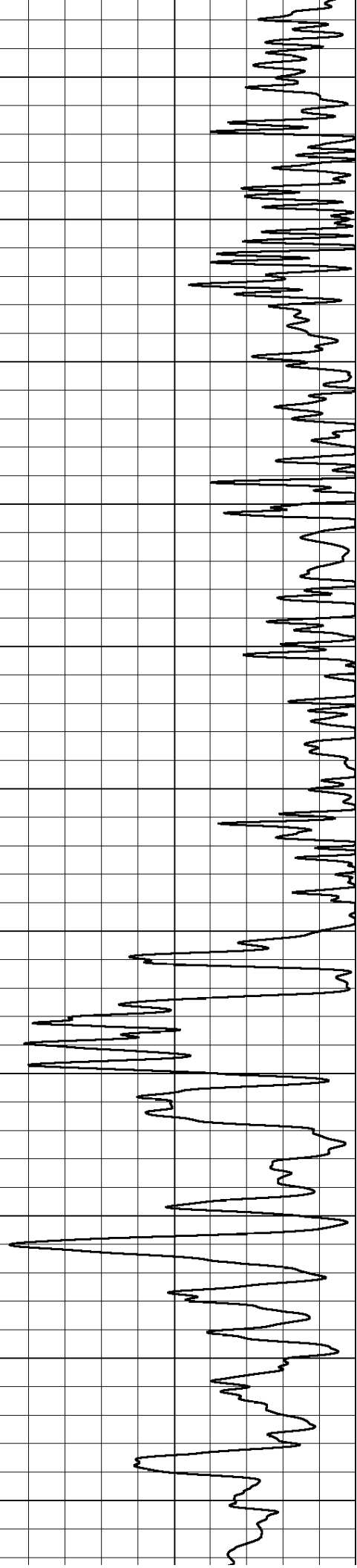
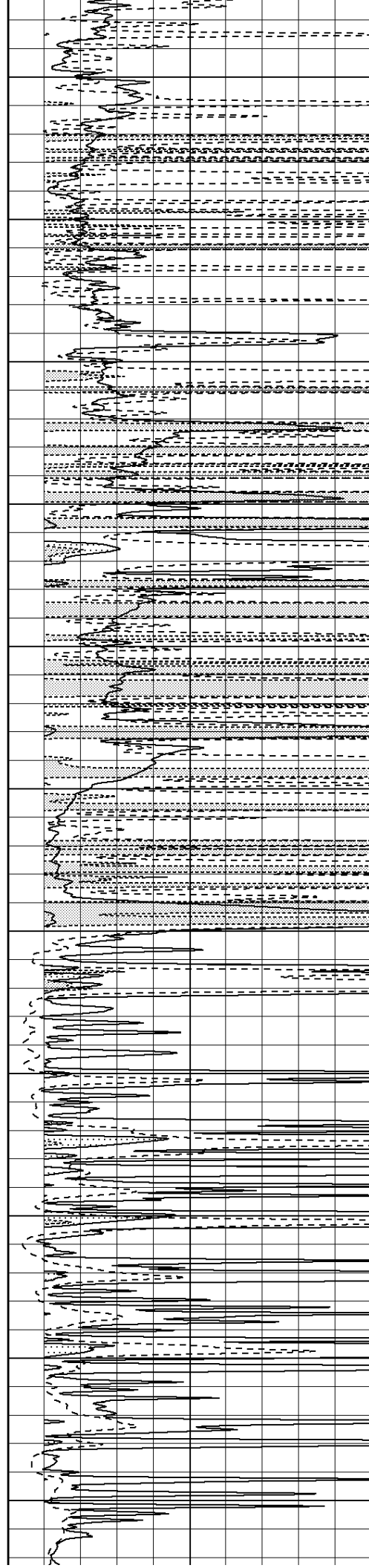
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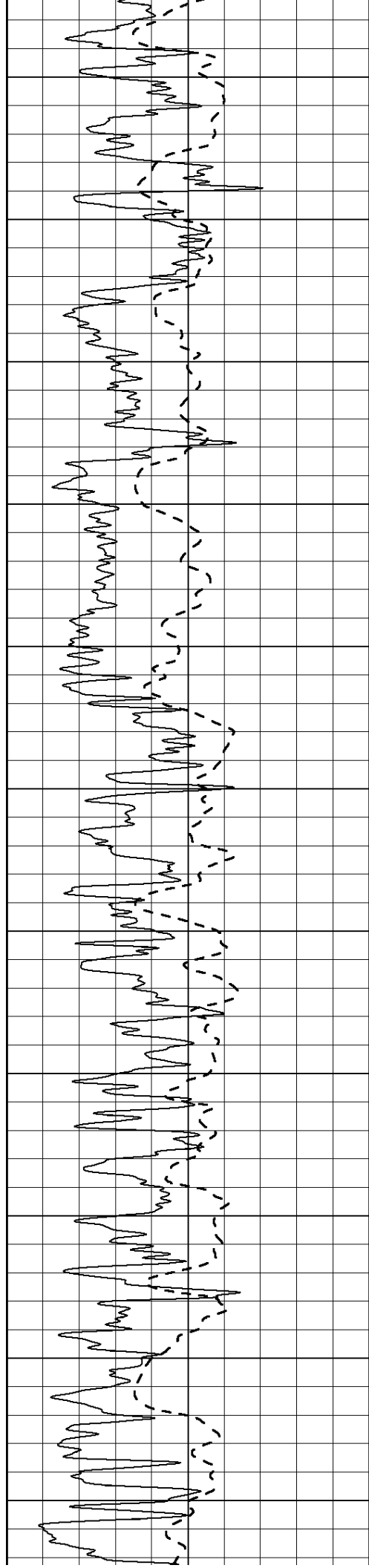
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2500

2550

2600





2650

2700

2750

2800

2850

2900

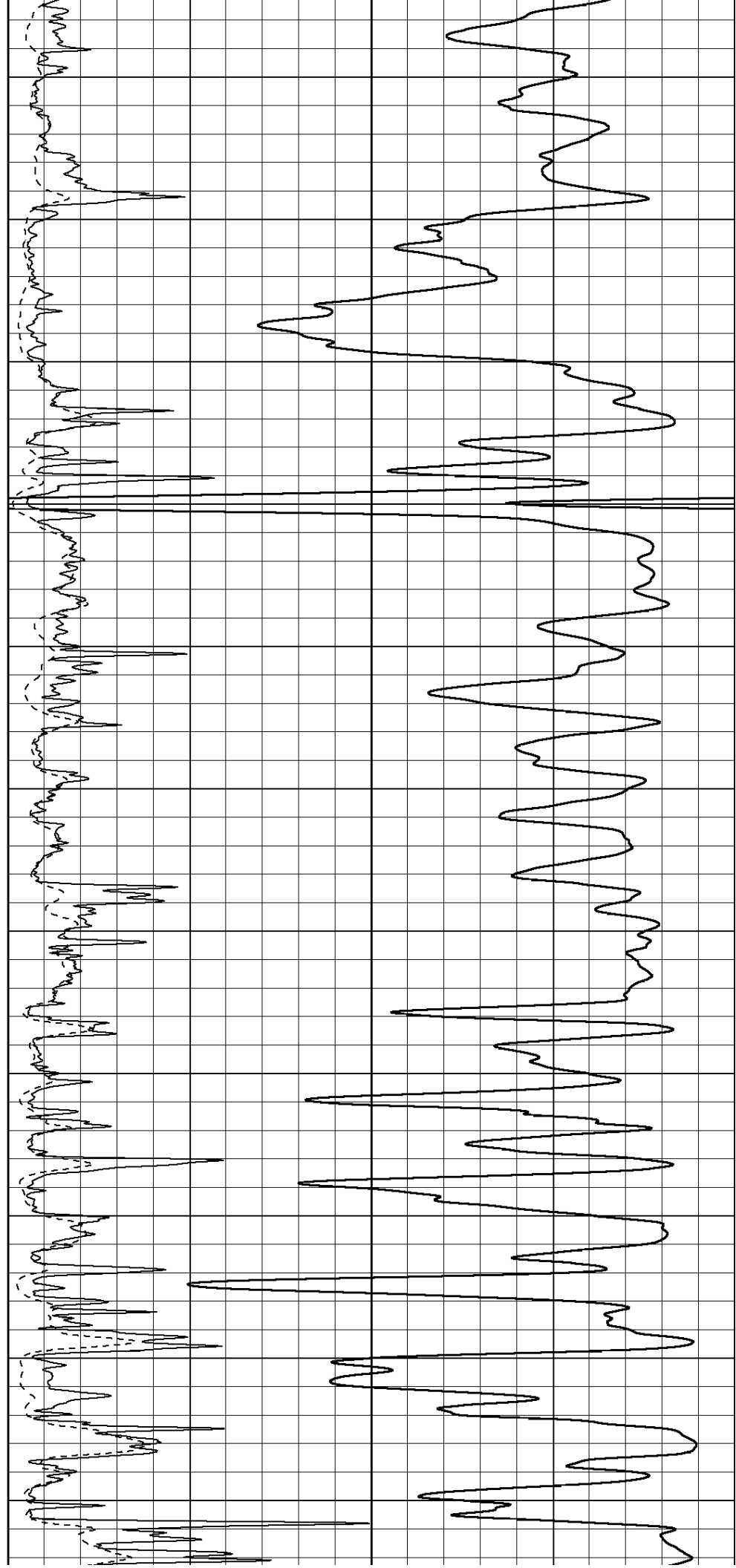
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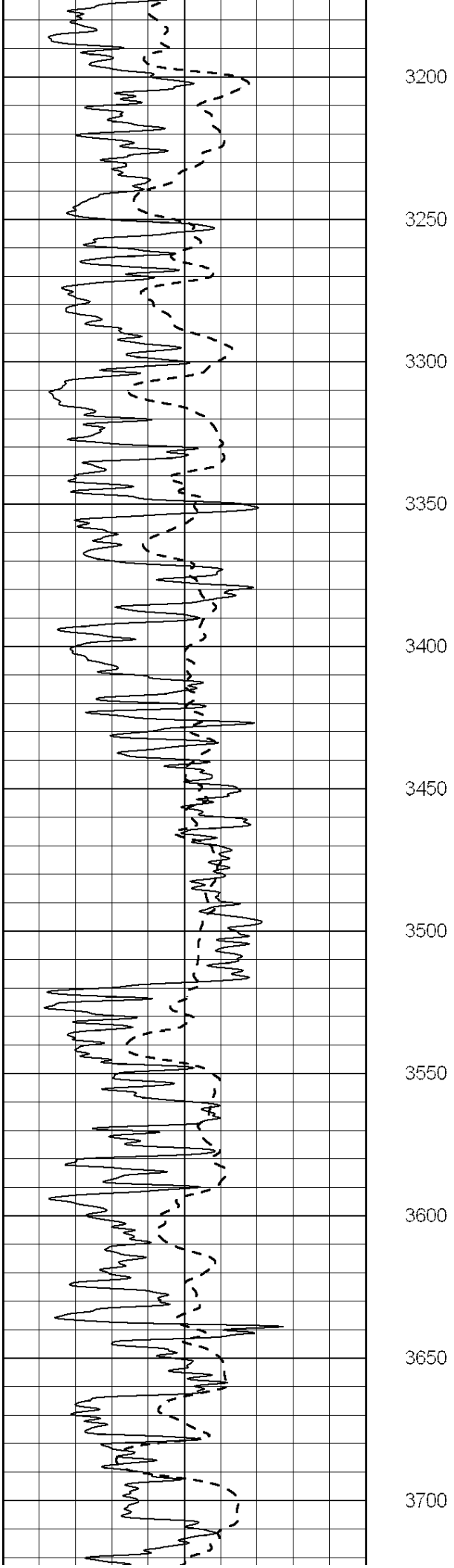
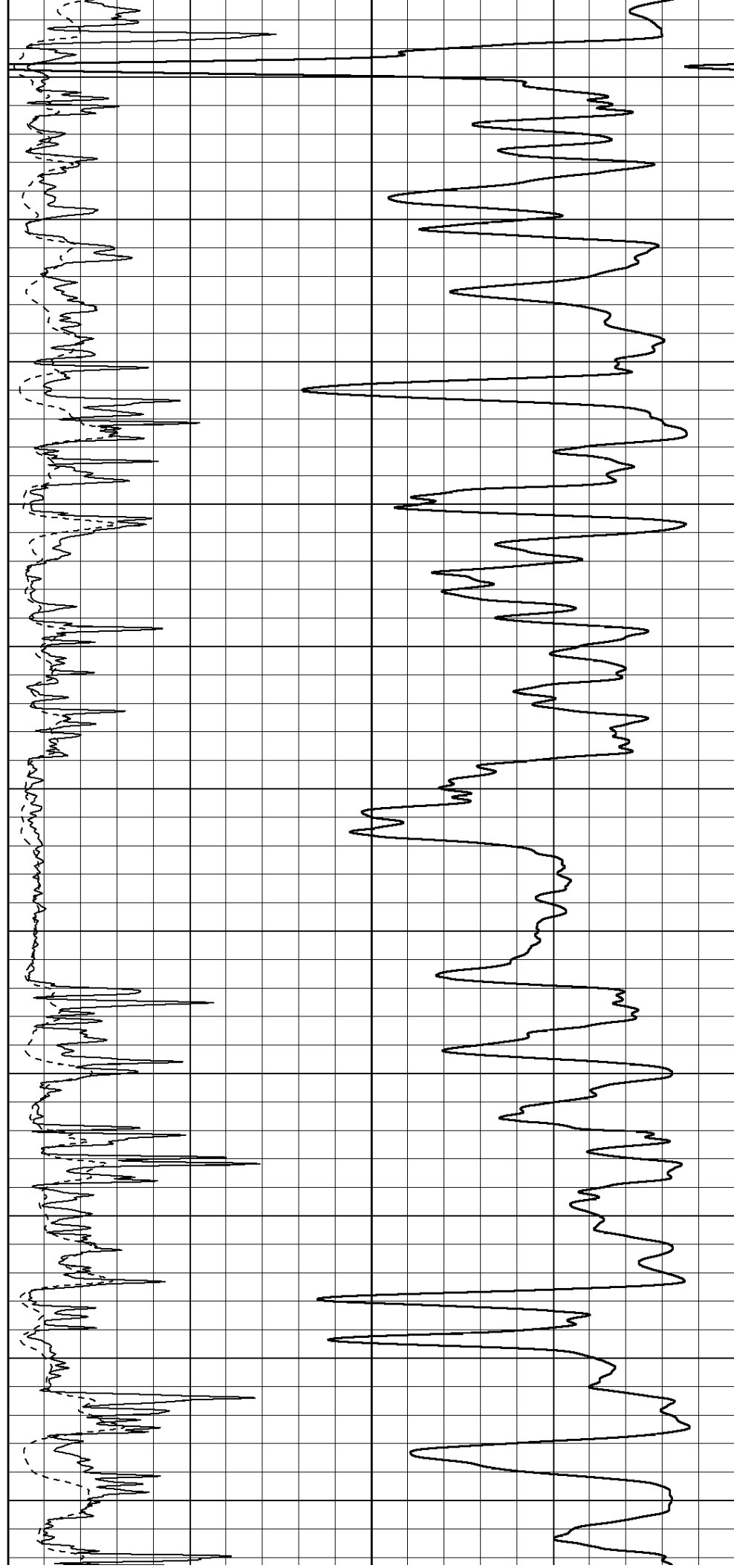
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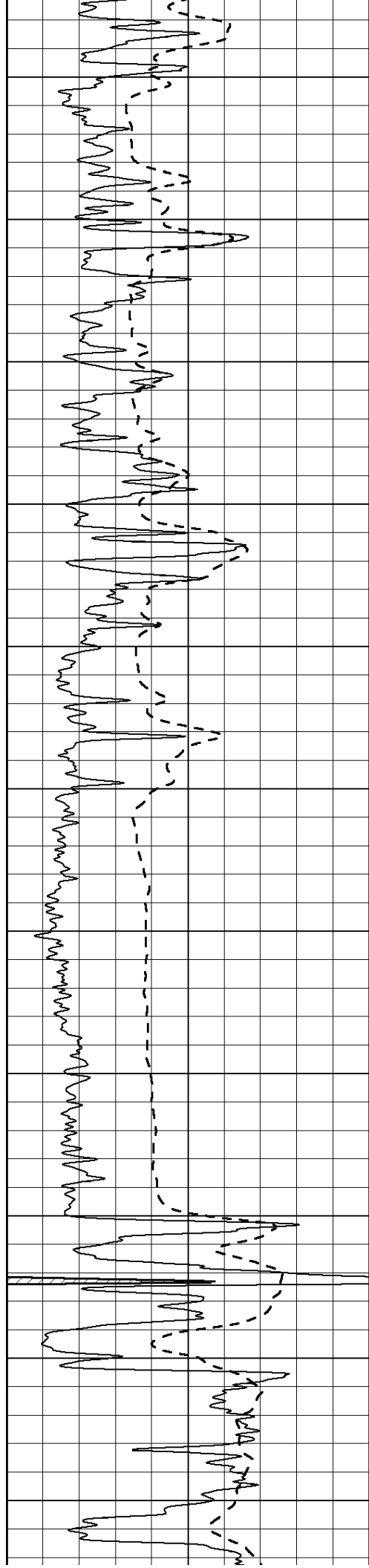
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3150







3750

3800

3850

3900

3950

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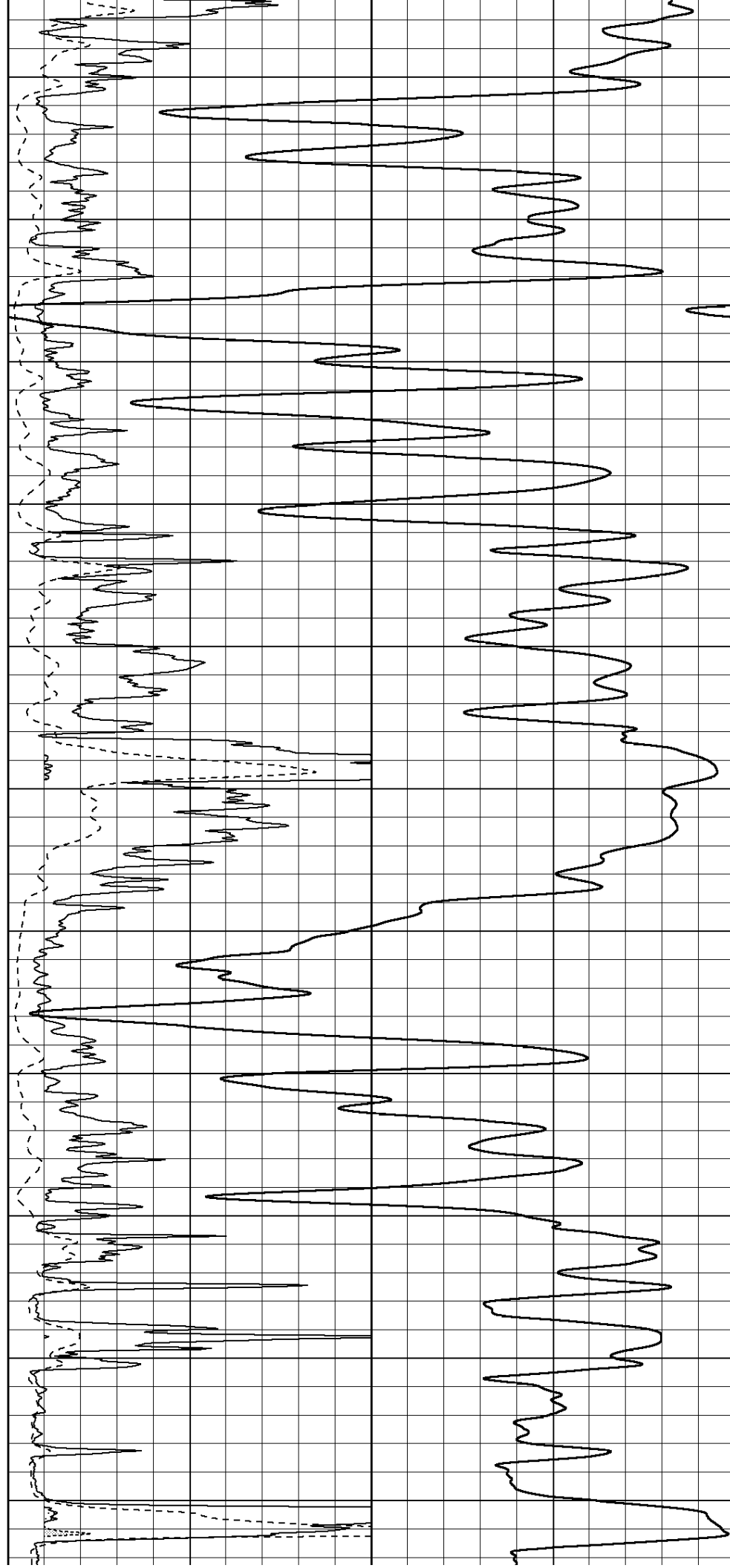
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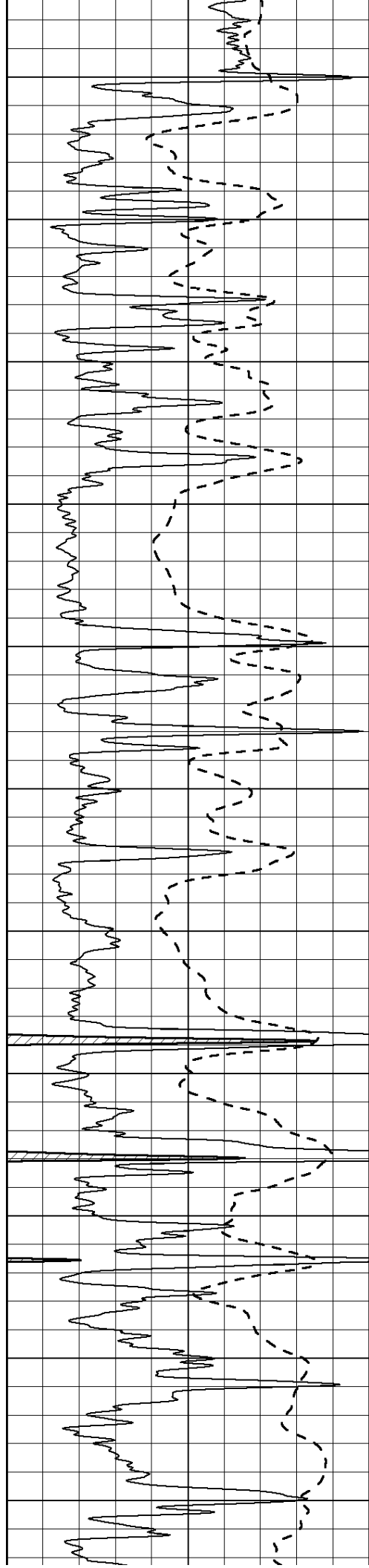
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4200

4250





4300

4350

4400

4450

4500

4550

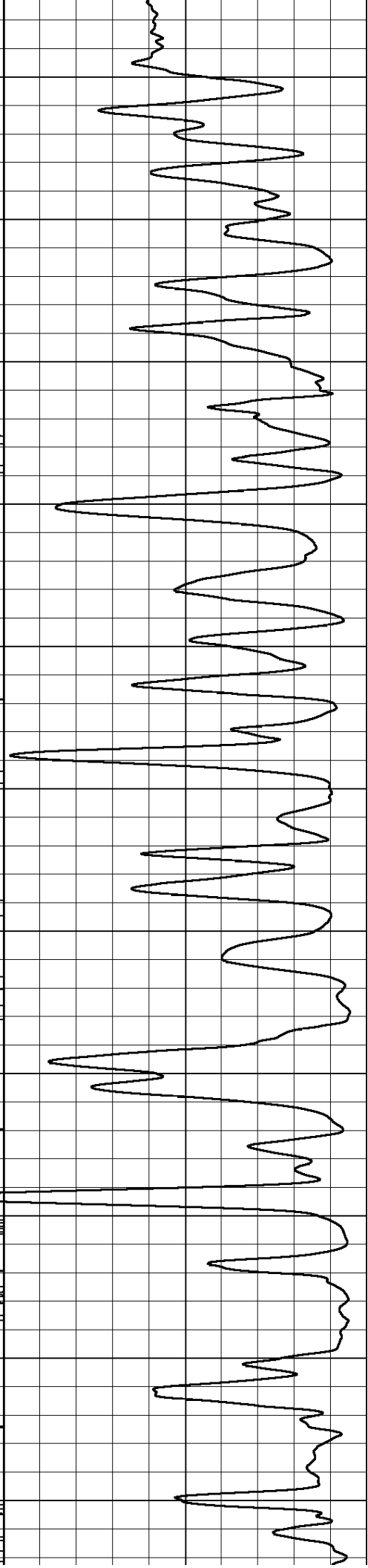
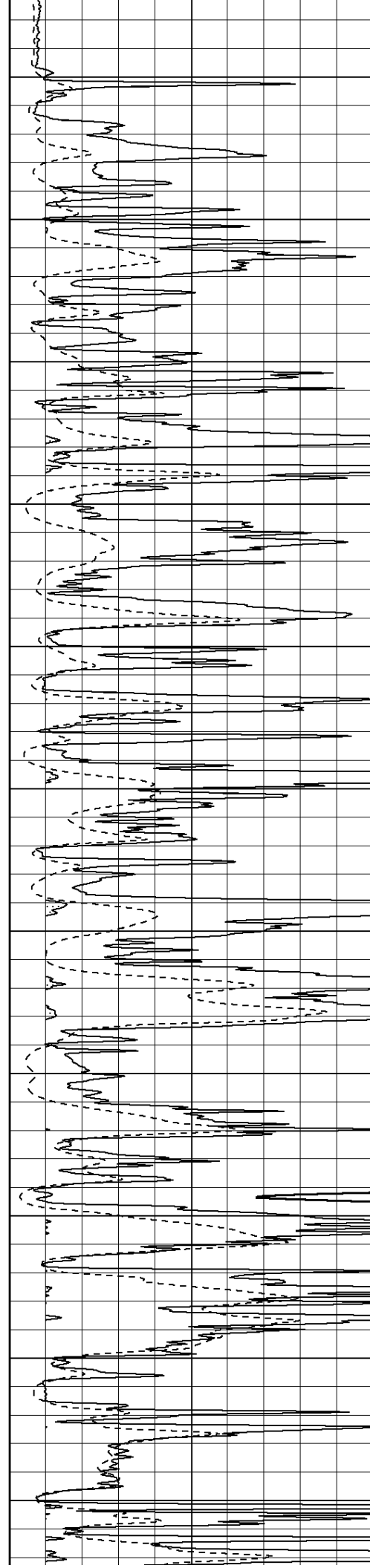
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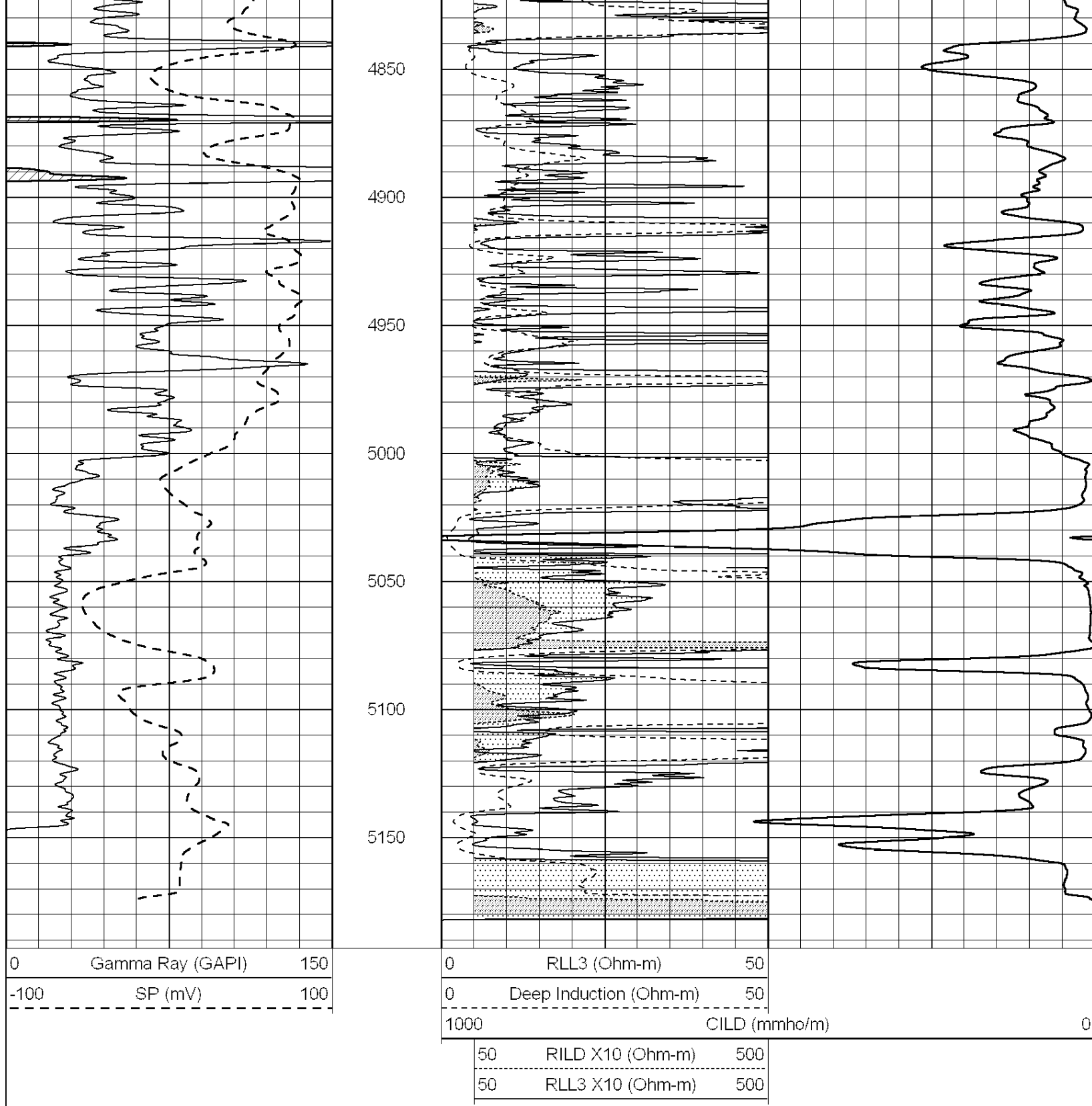
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4700

4750

4800



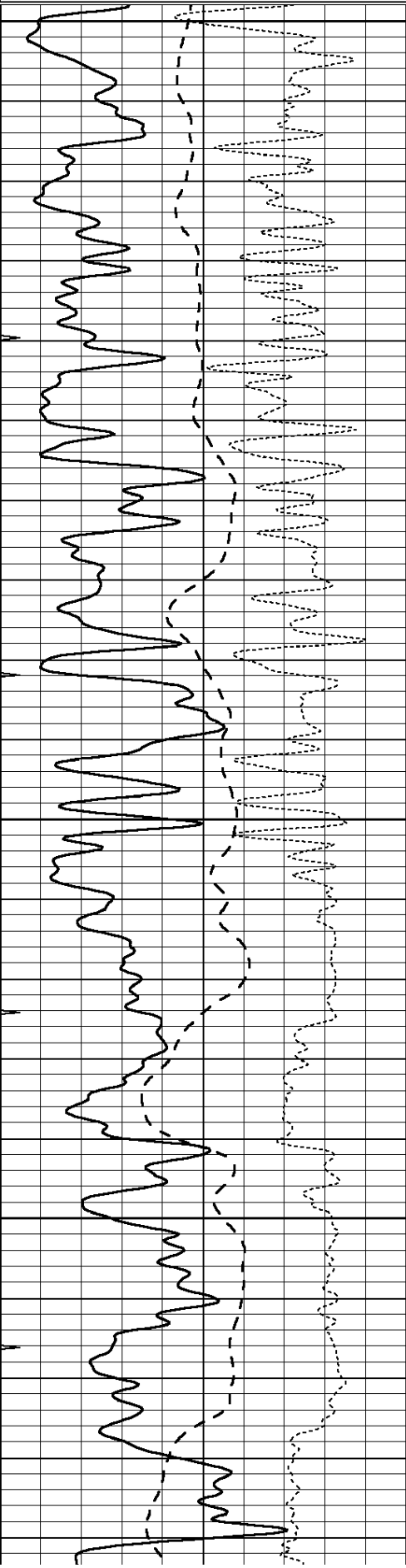


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MAIN SECTION

Database File: 007744ddn.db
 Dataset Pathname: pass3.1A
 Presentation Format: dil
 Dataset Creation: Sun Sep 25 22:16:45 2011
 Charted by: Depth in Feet scaled 1:240

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



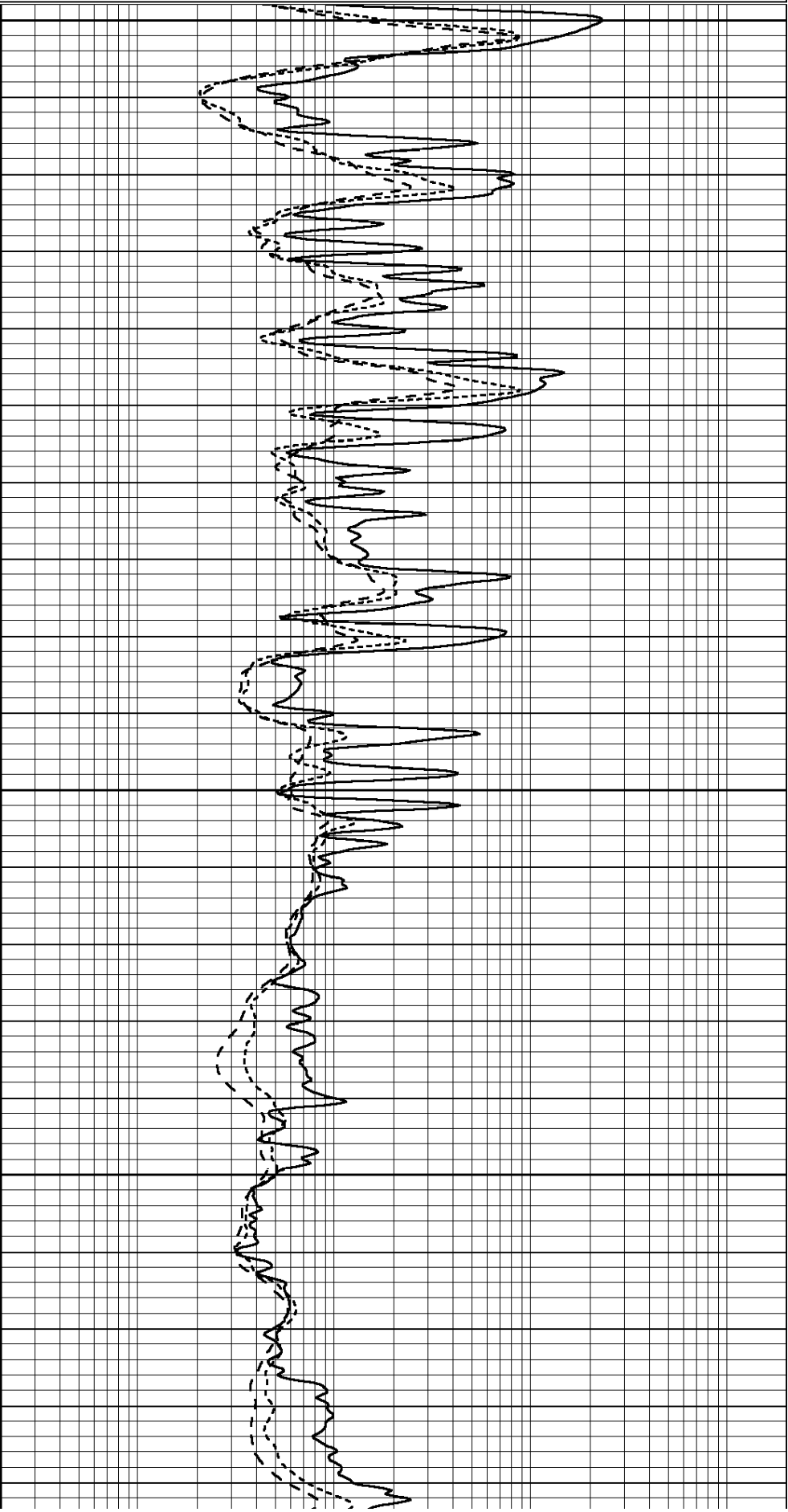
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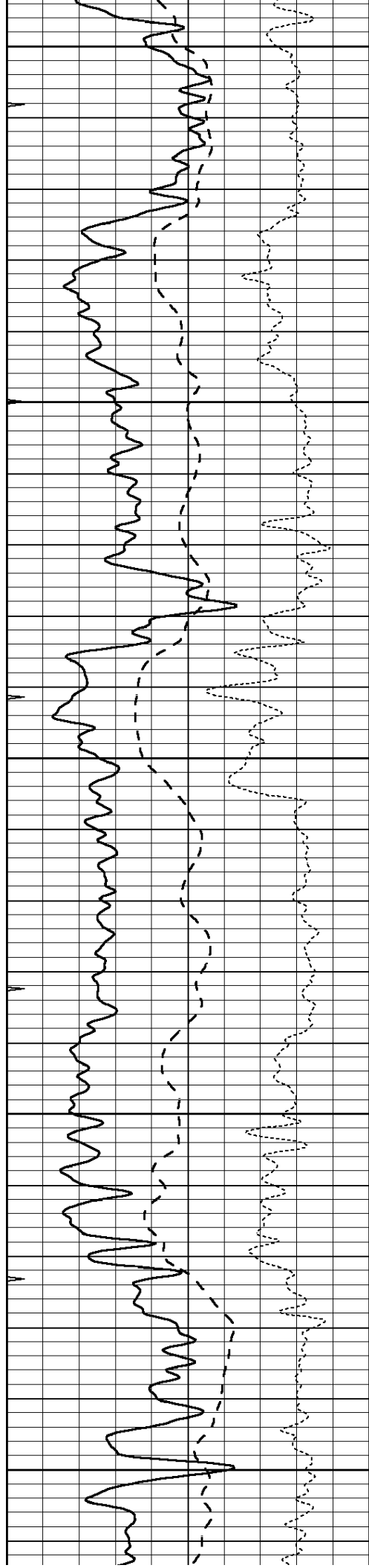
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2600

2650

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





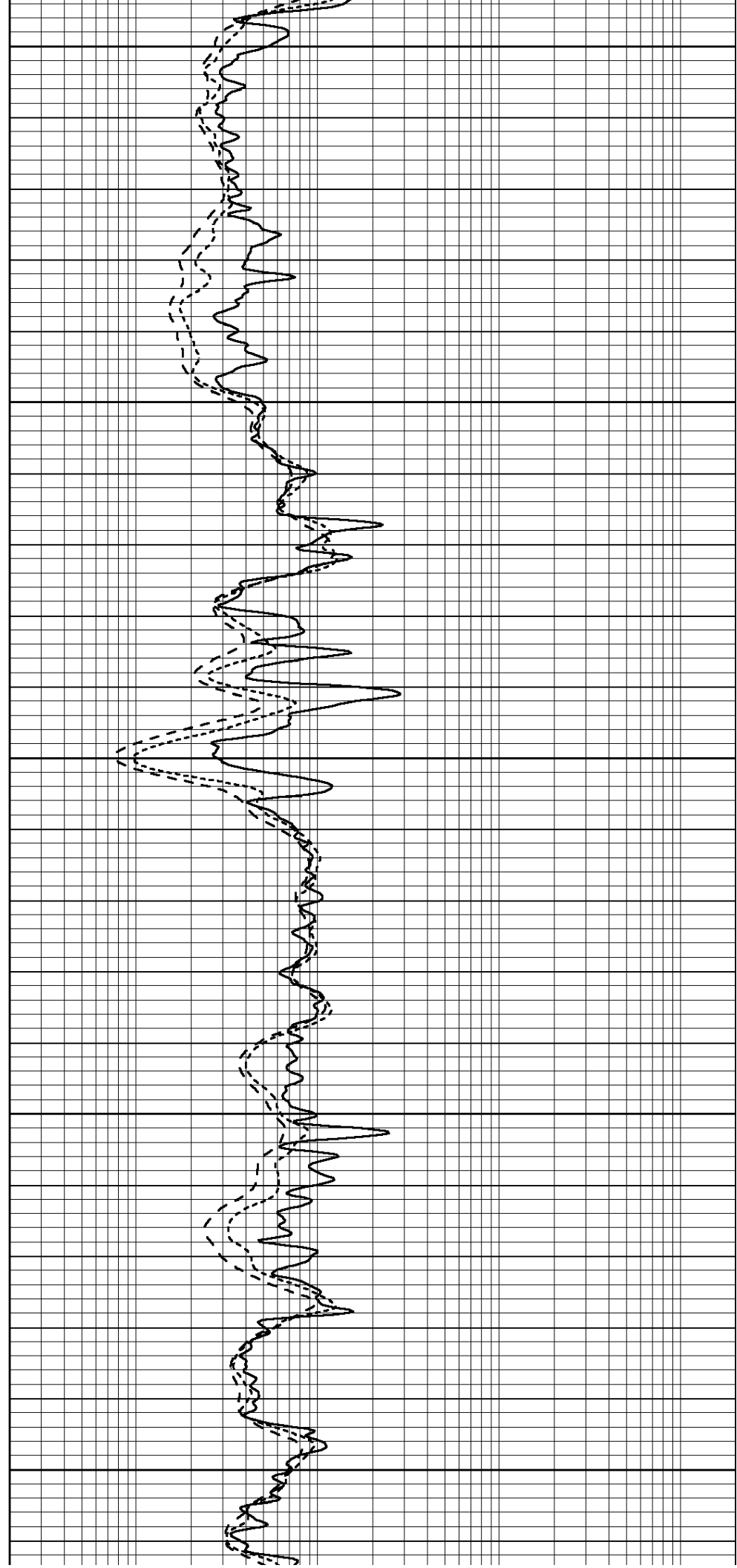
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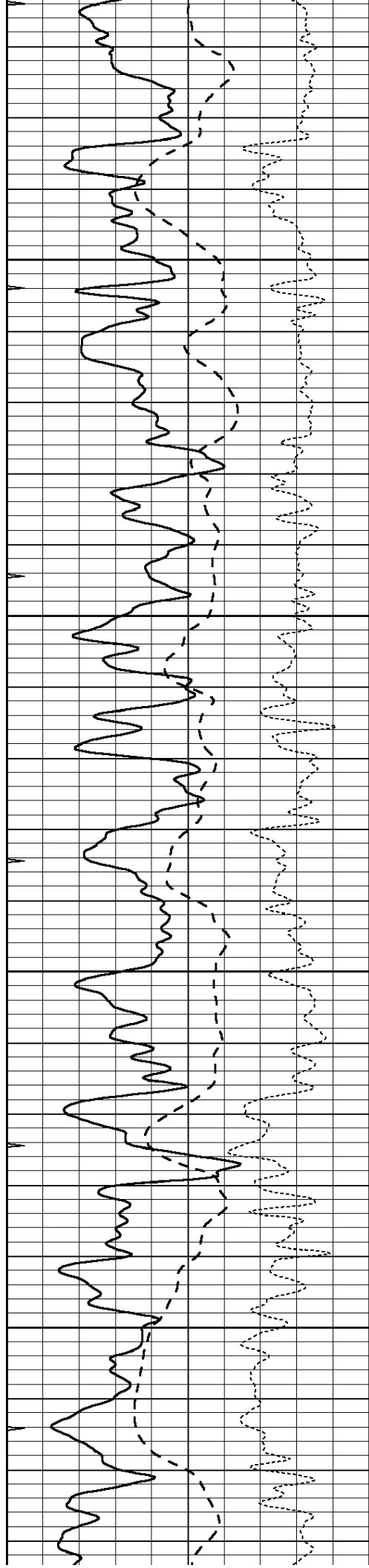
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2800

2850

2900



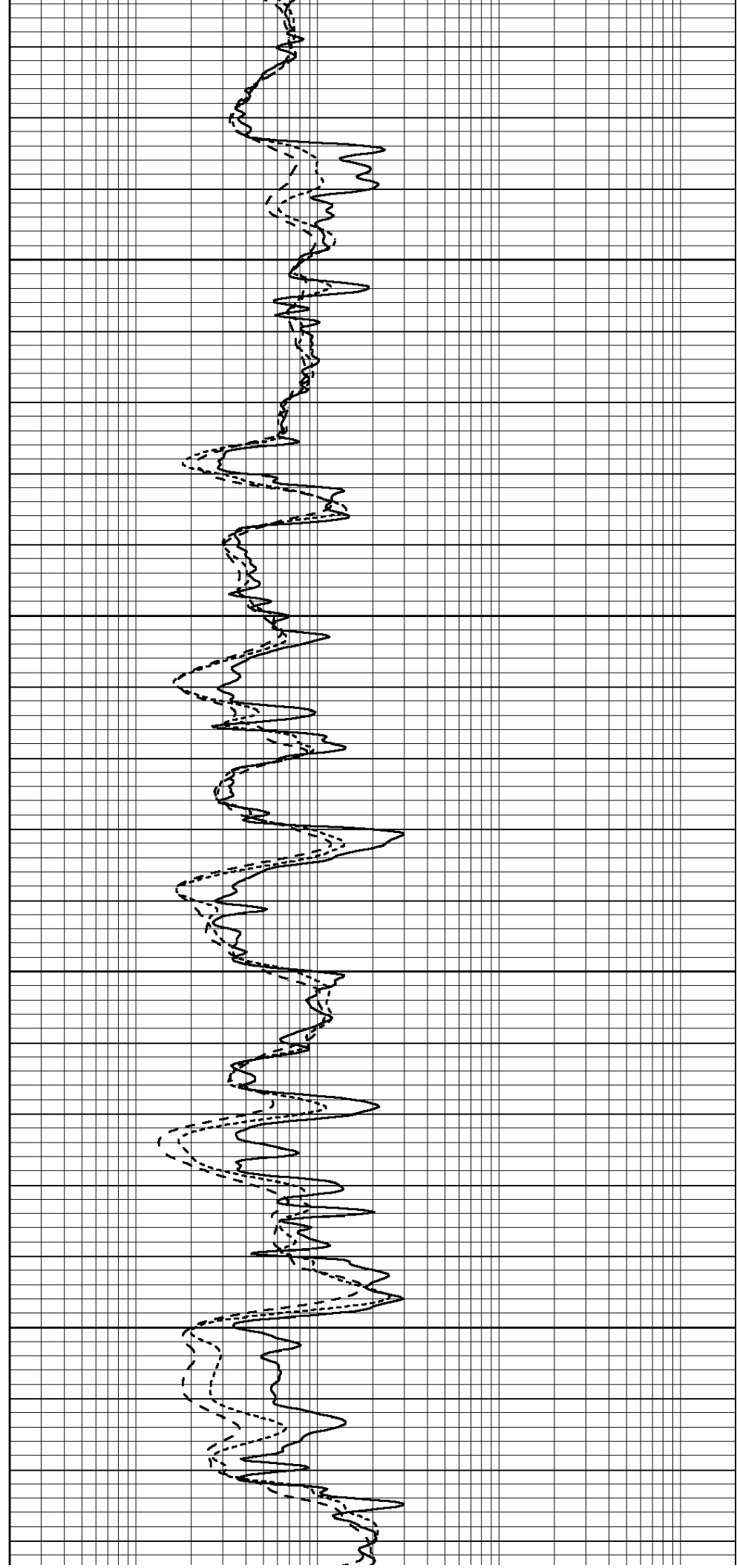


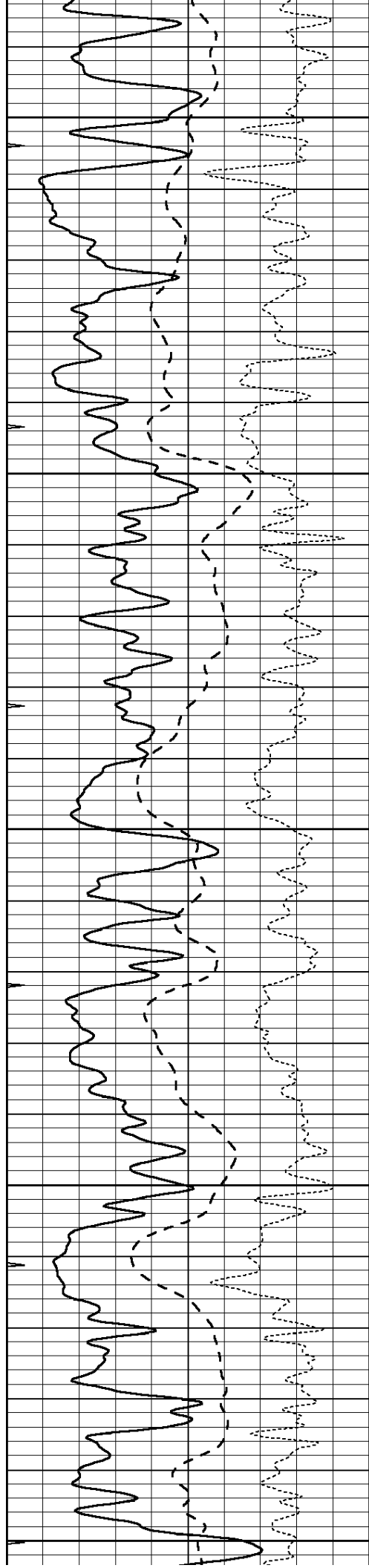
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3000

3050

3100





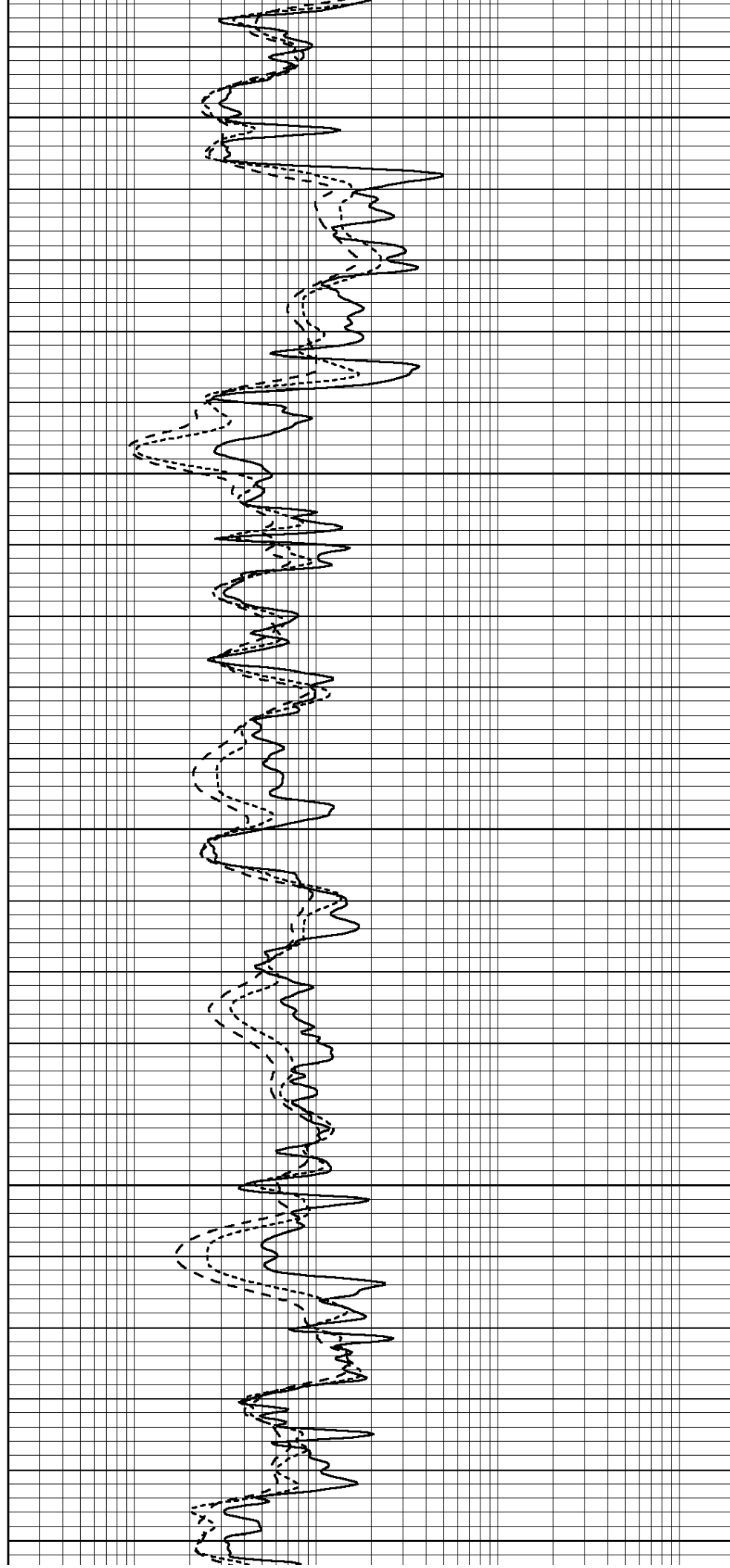
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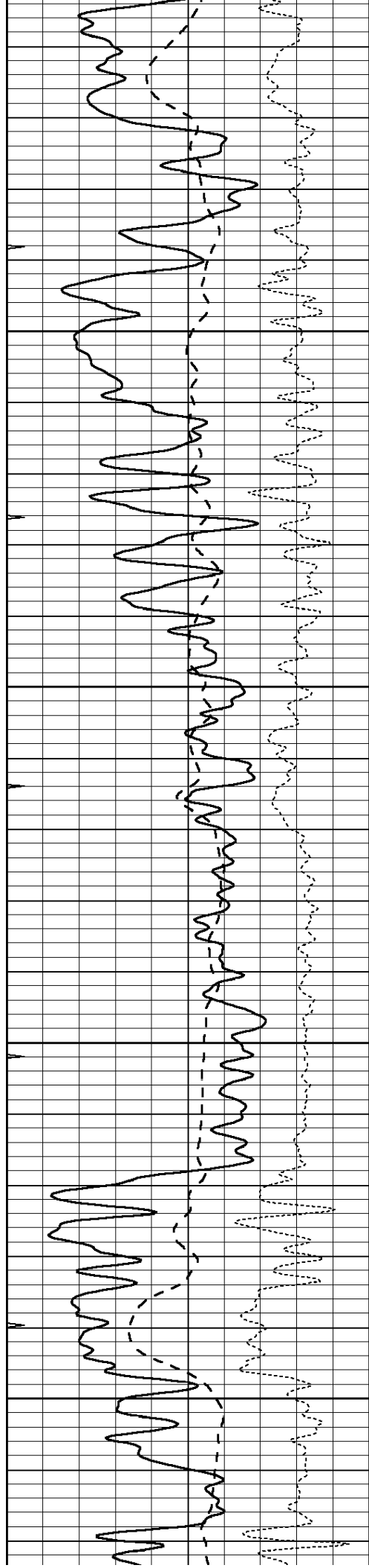
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3250

3300

3350



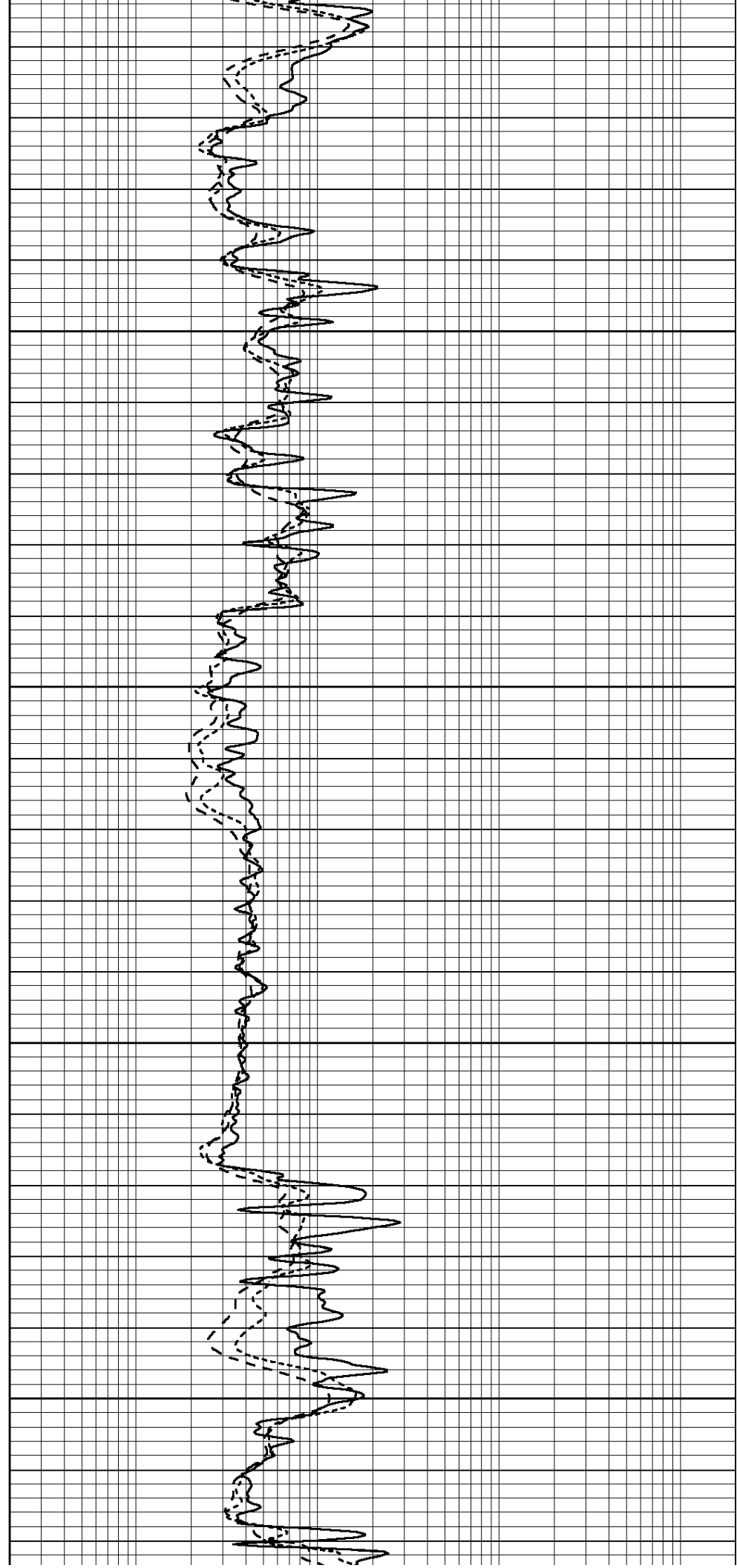


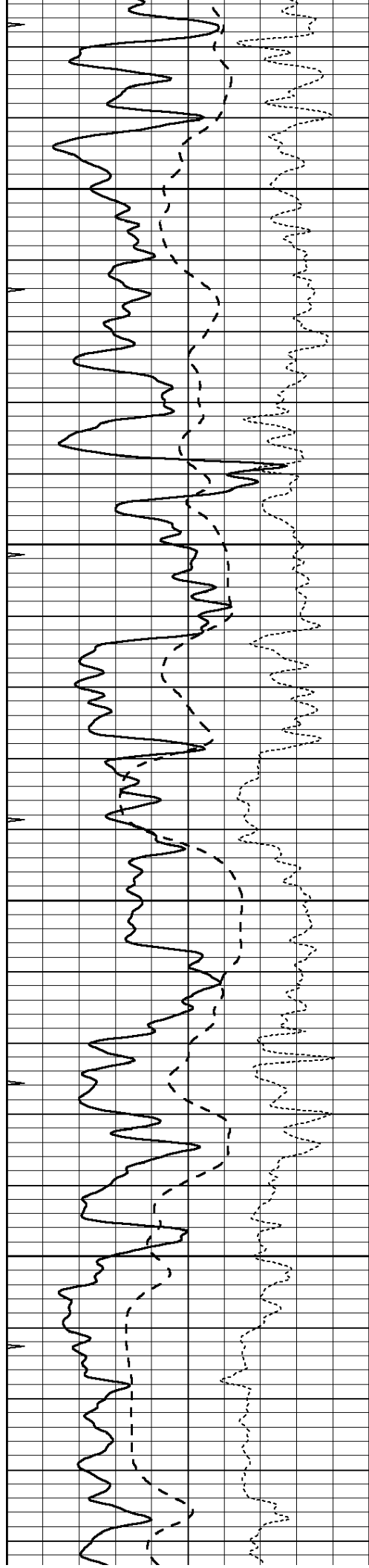
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3450

3500

3550



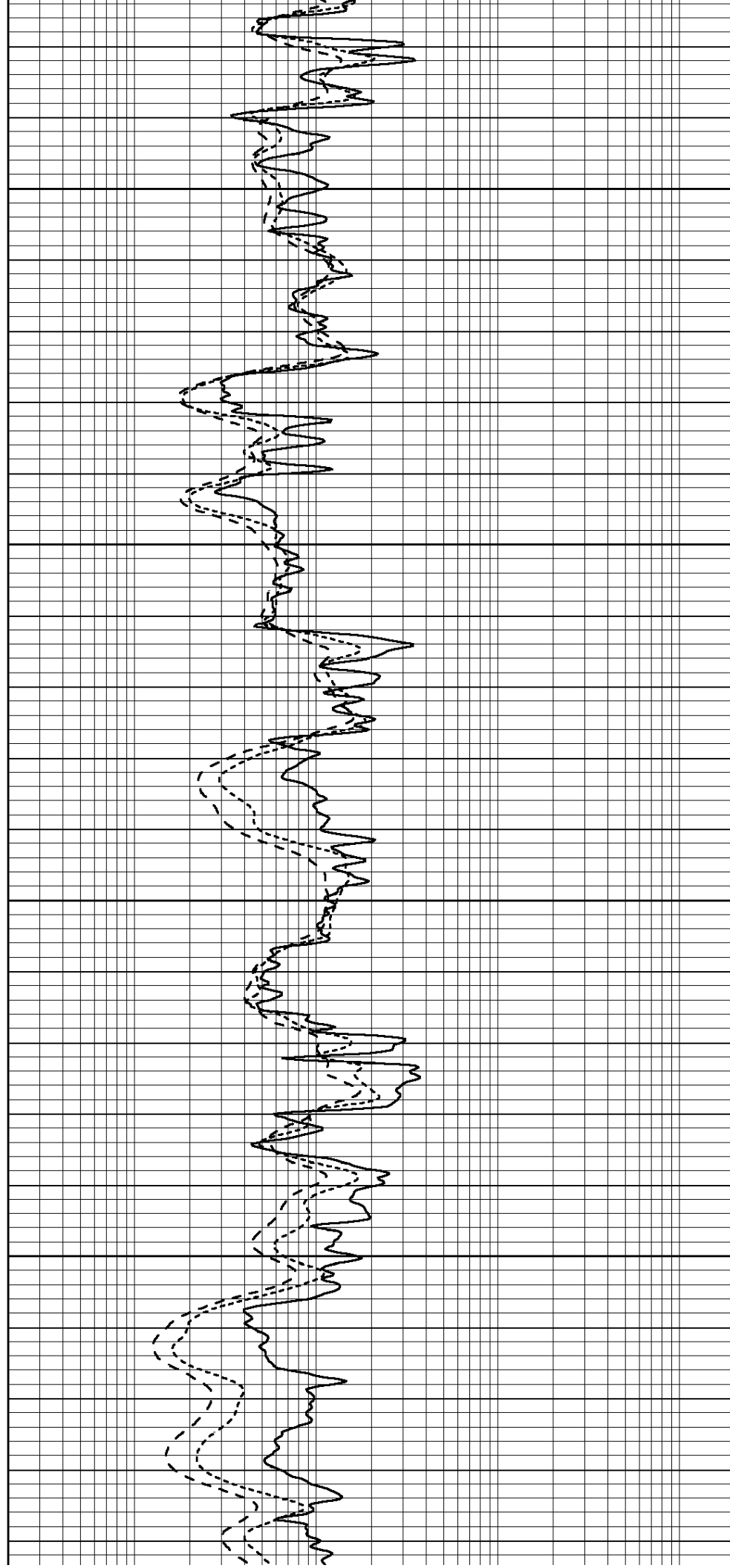


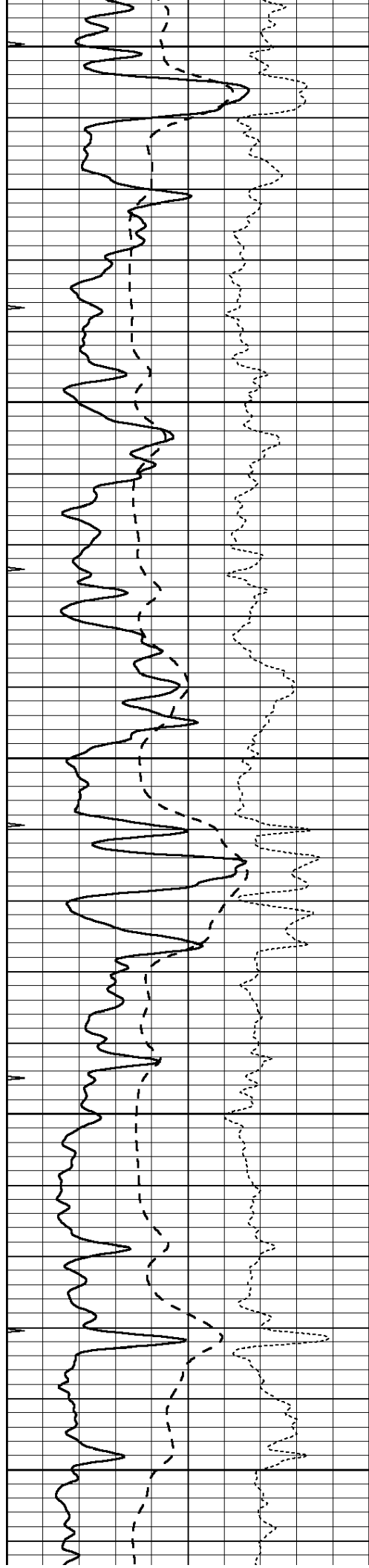
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3700

3750





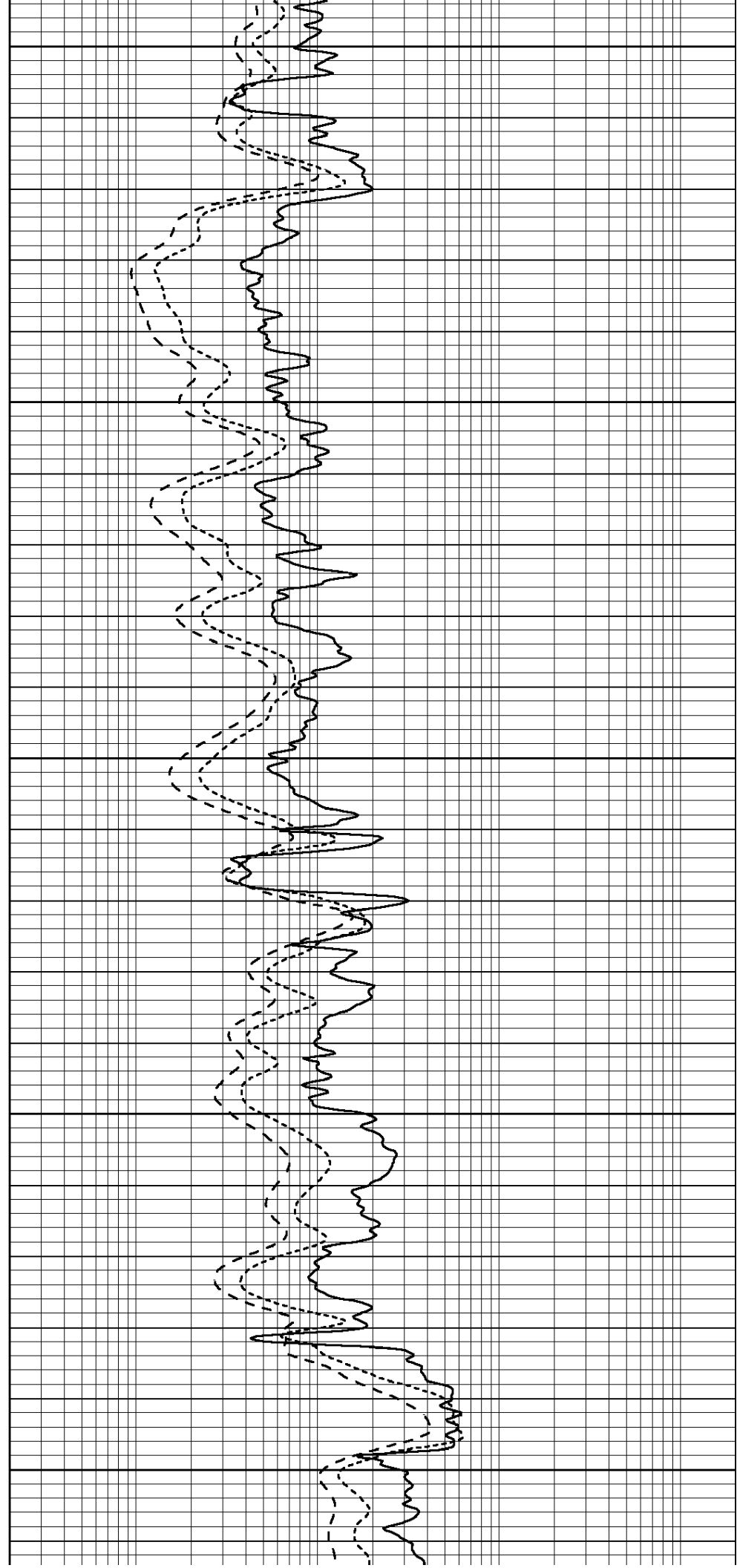
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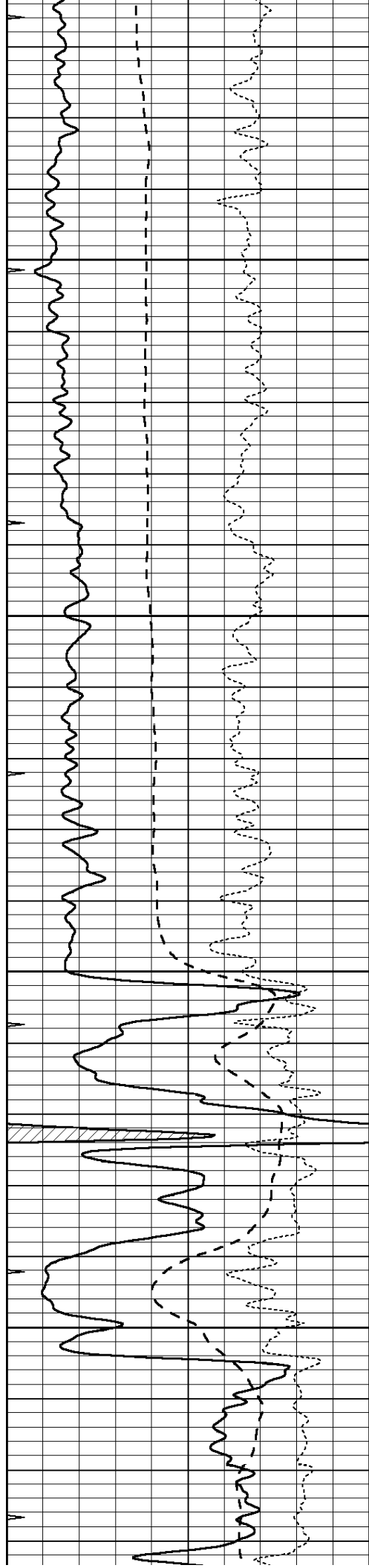
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3900

3950

4000



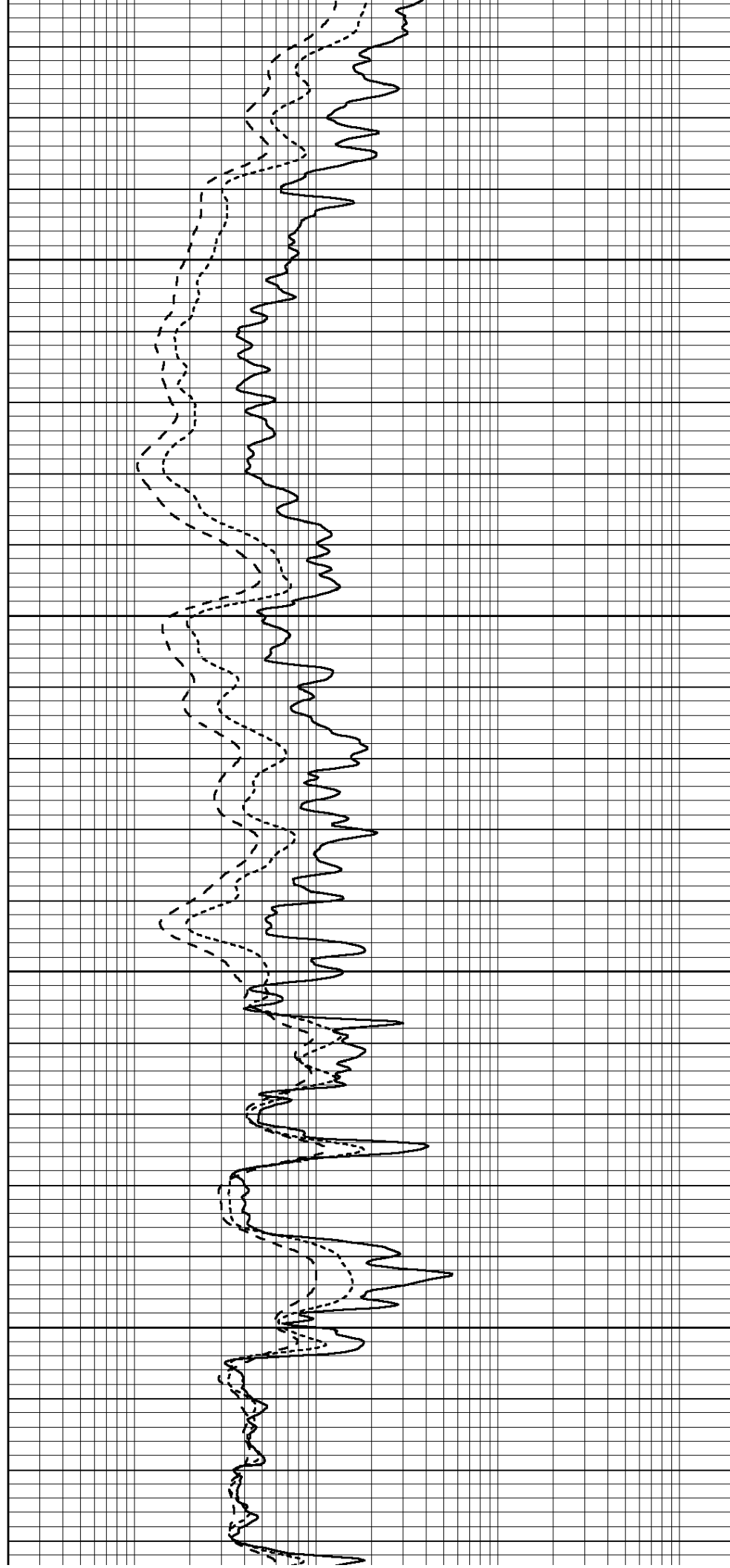


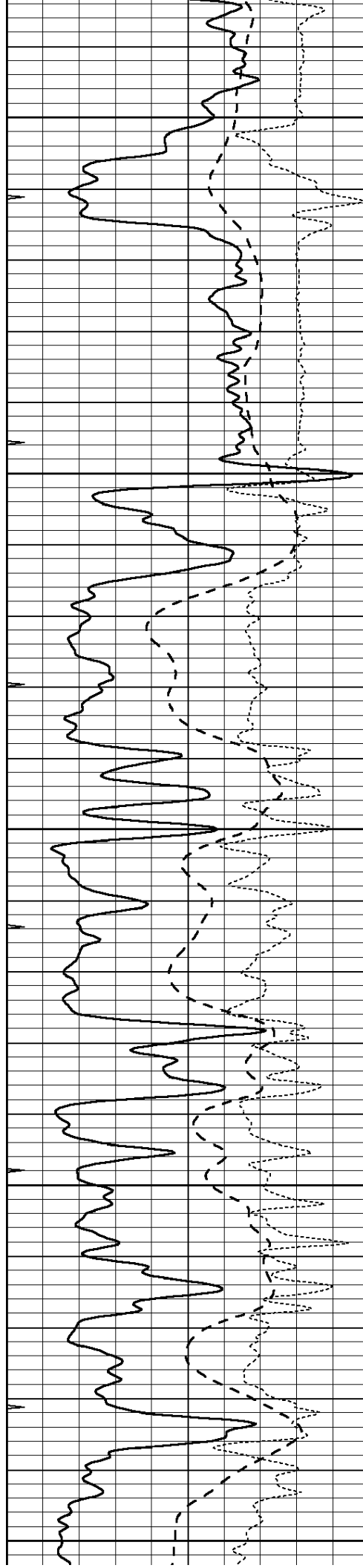
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4100

4150

4200





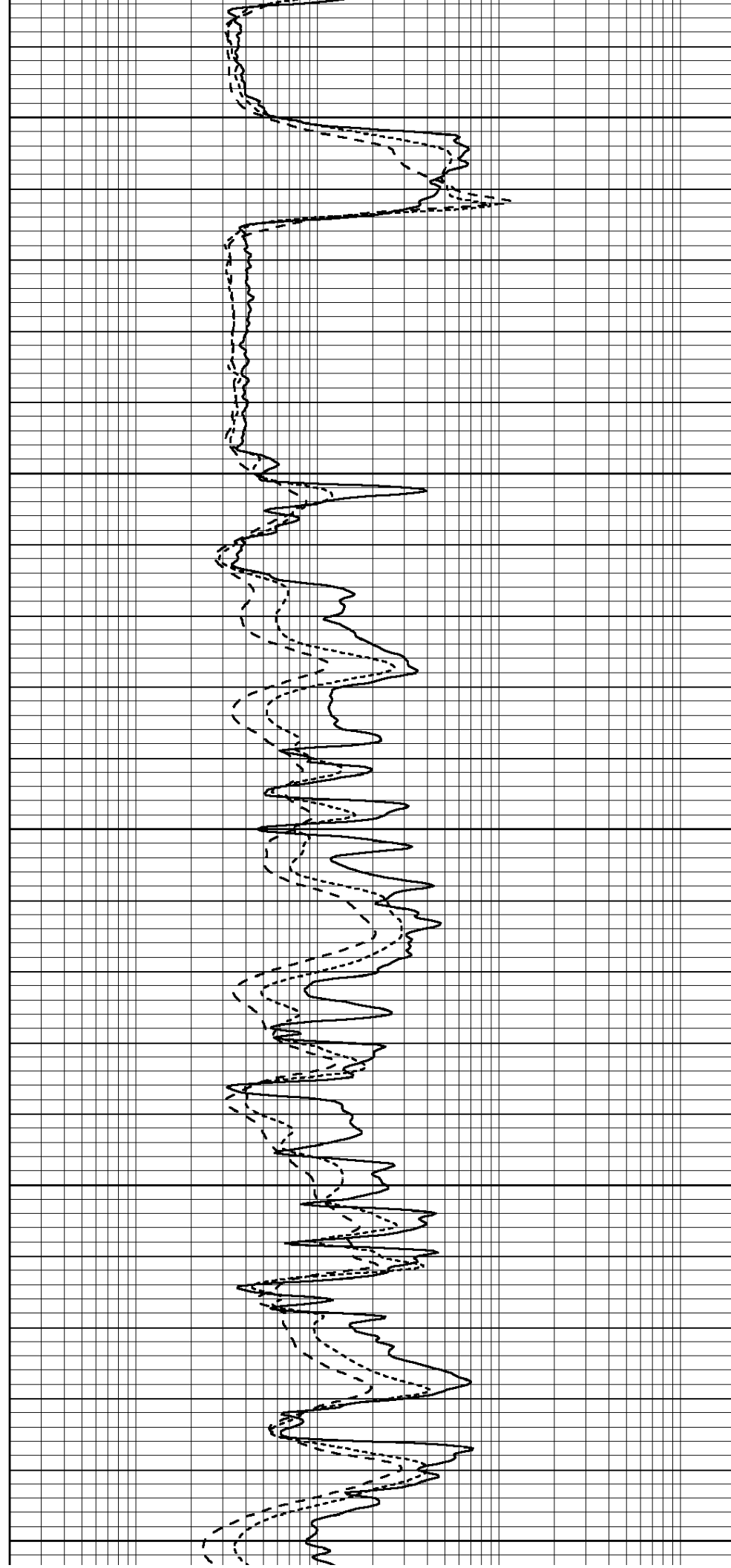
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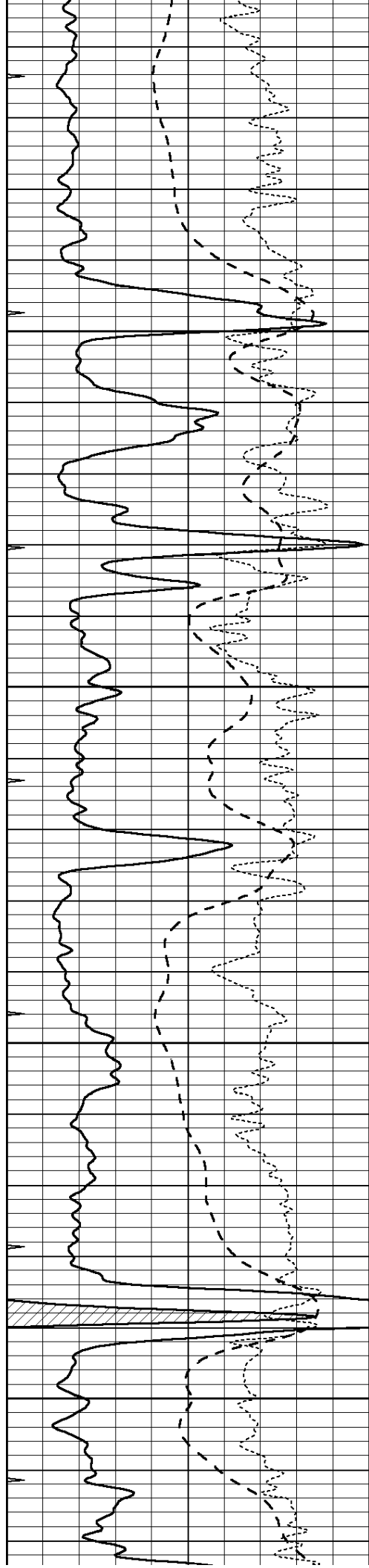
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4450



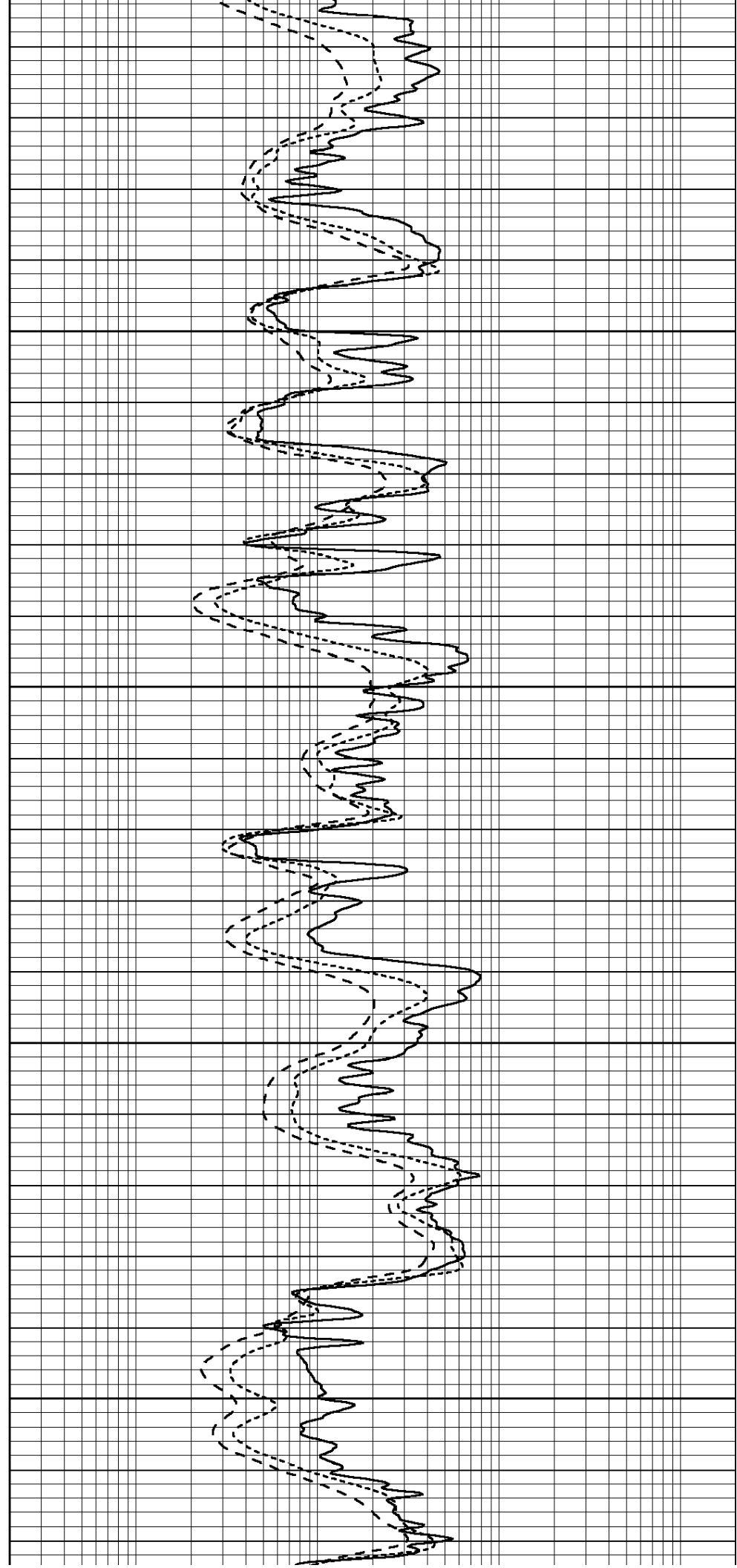


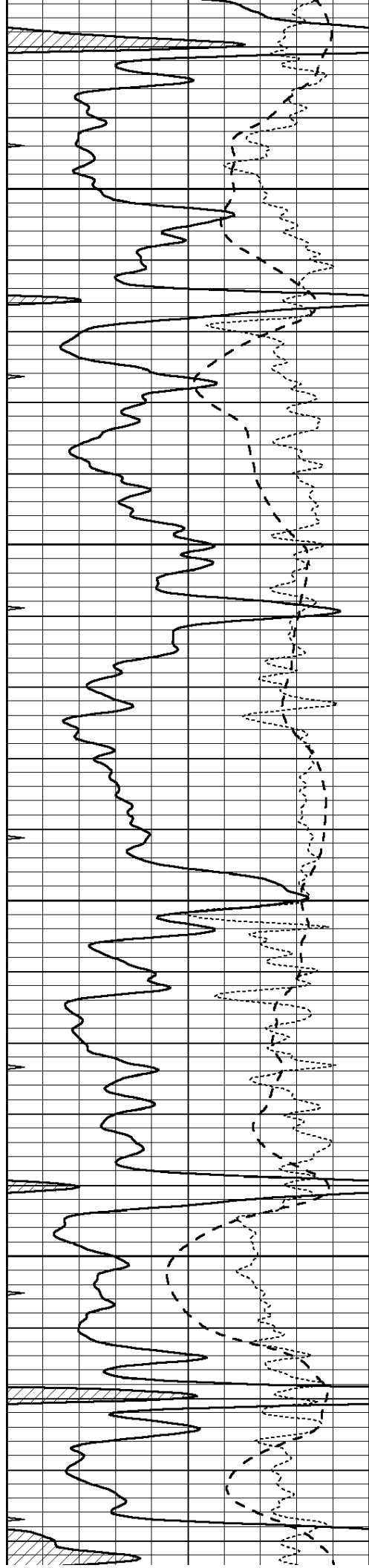
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4550

4600

4650



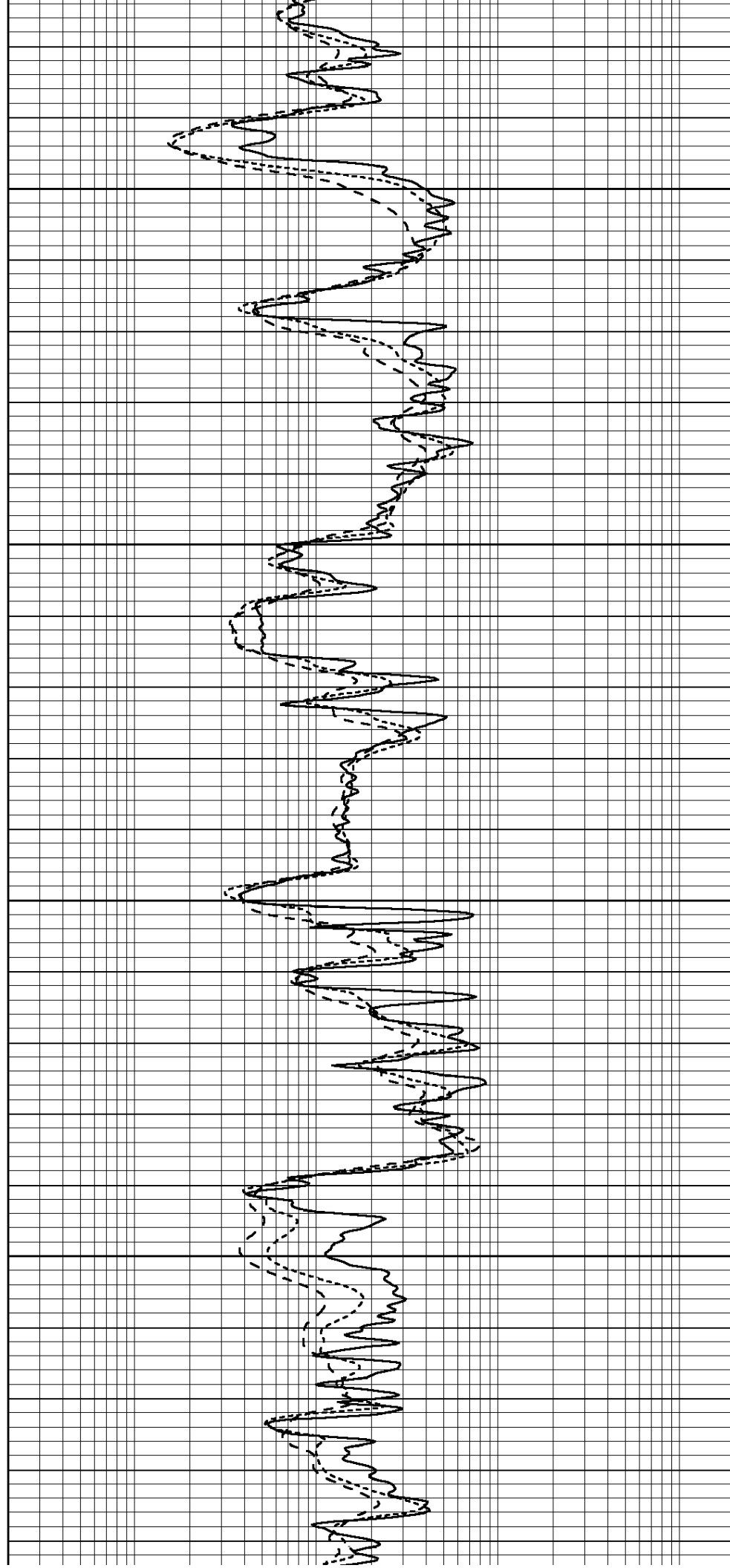


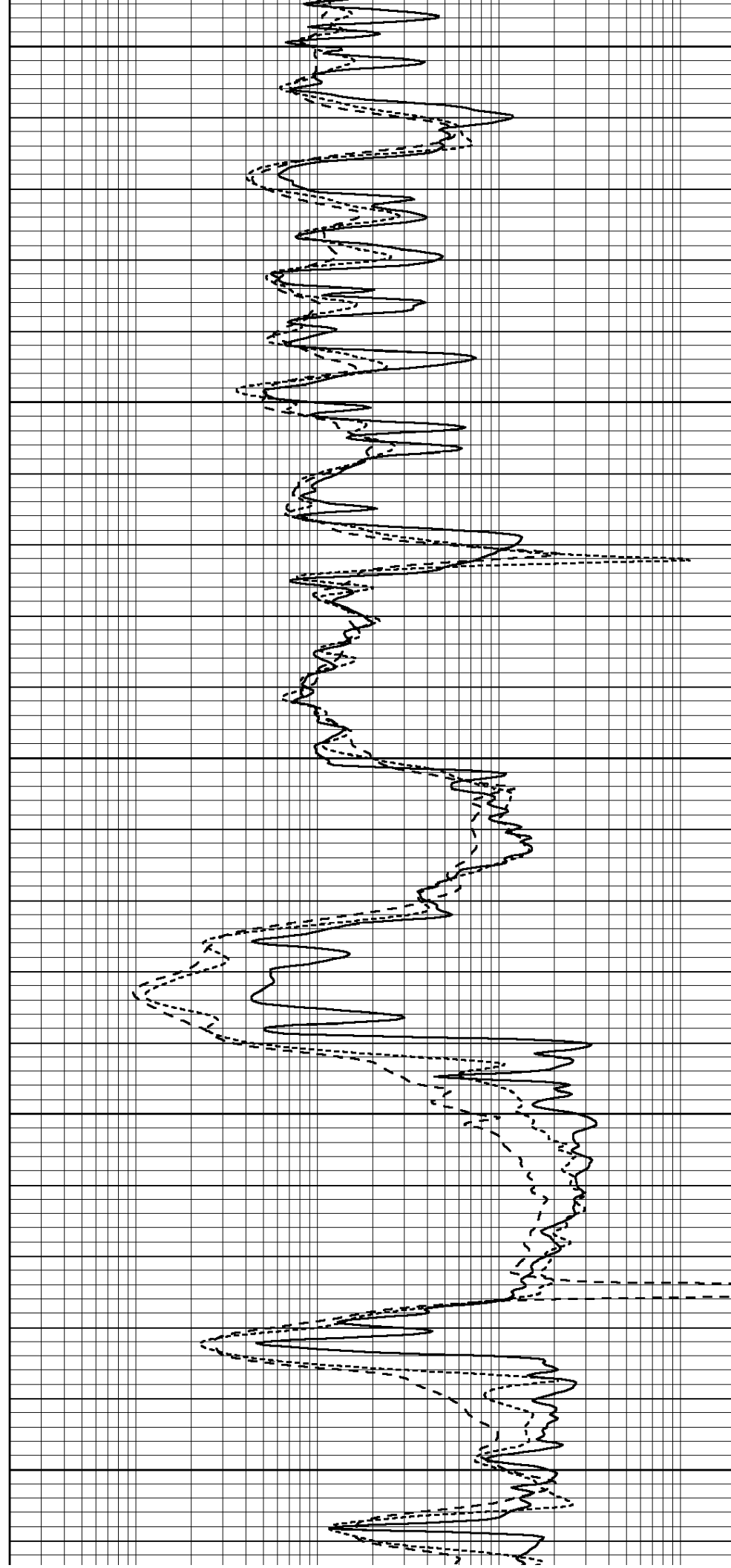
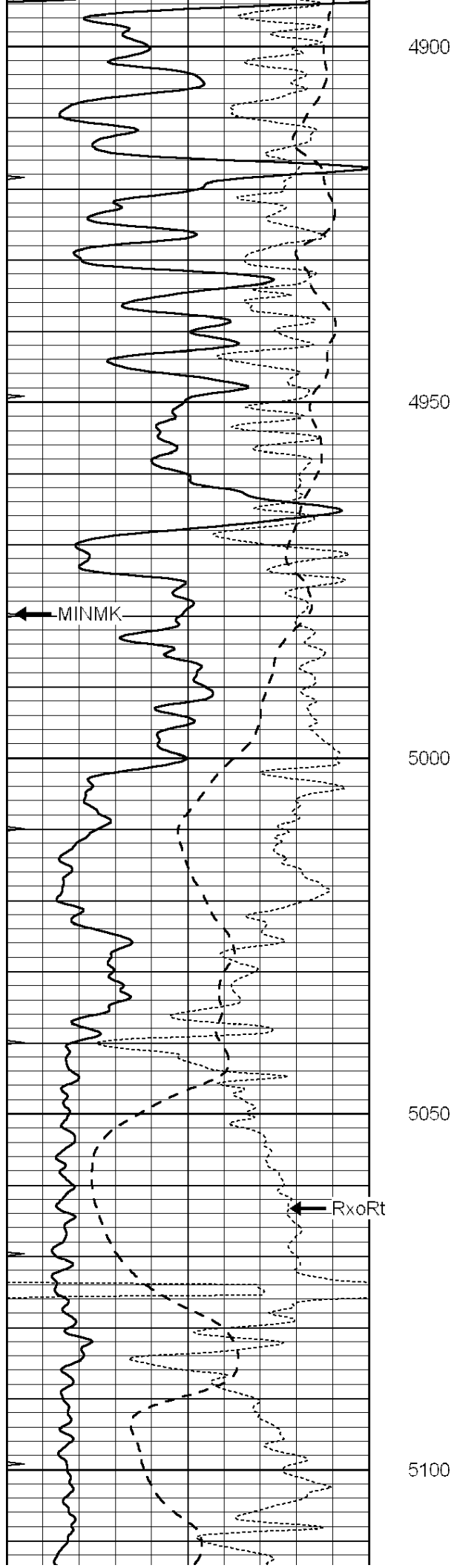
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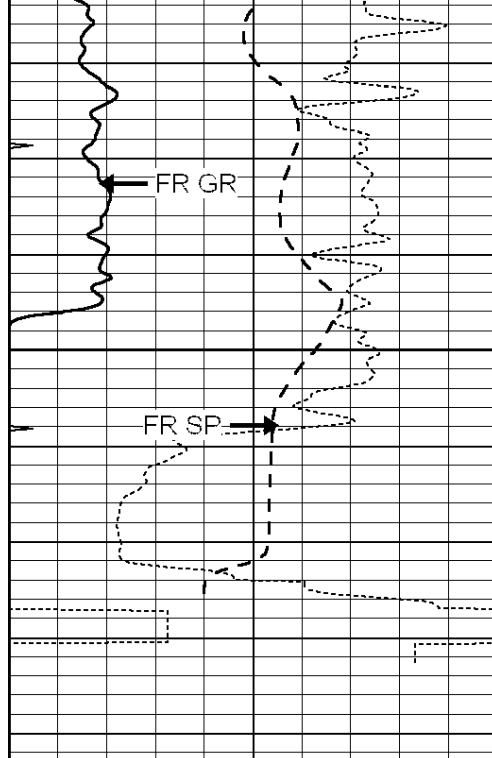
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4850



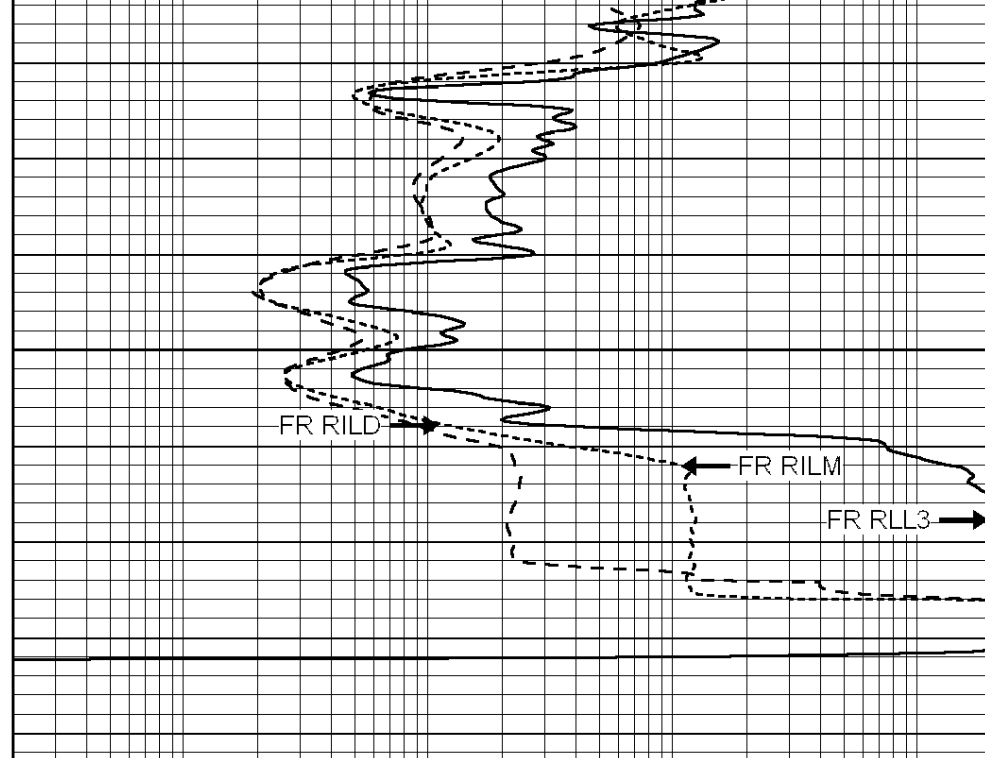




0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	RxoRt	50
0	MINMK	20

5150

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



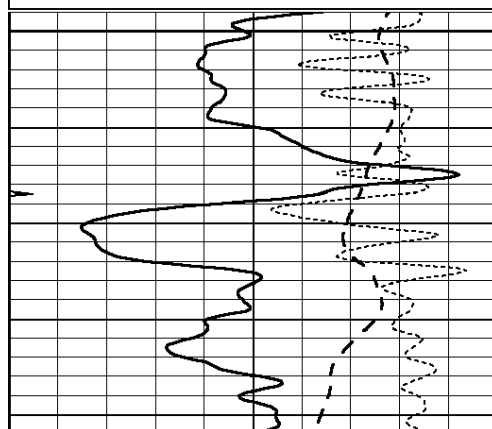
SUPERIOR
Hays,
Kansas

REPEAT SECTION

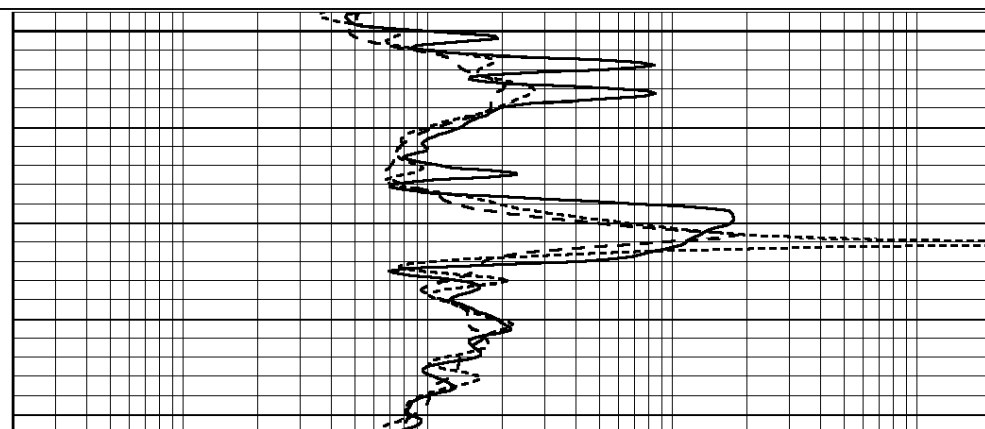
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 Charted by: Depth in Feet scaled 1:240

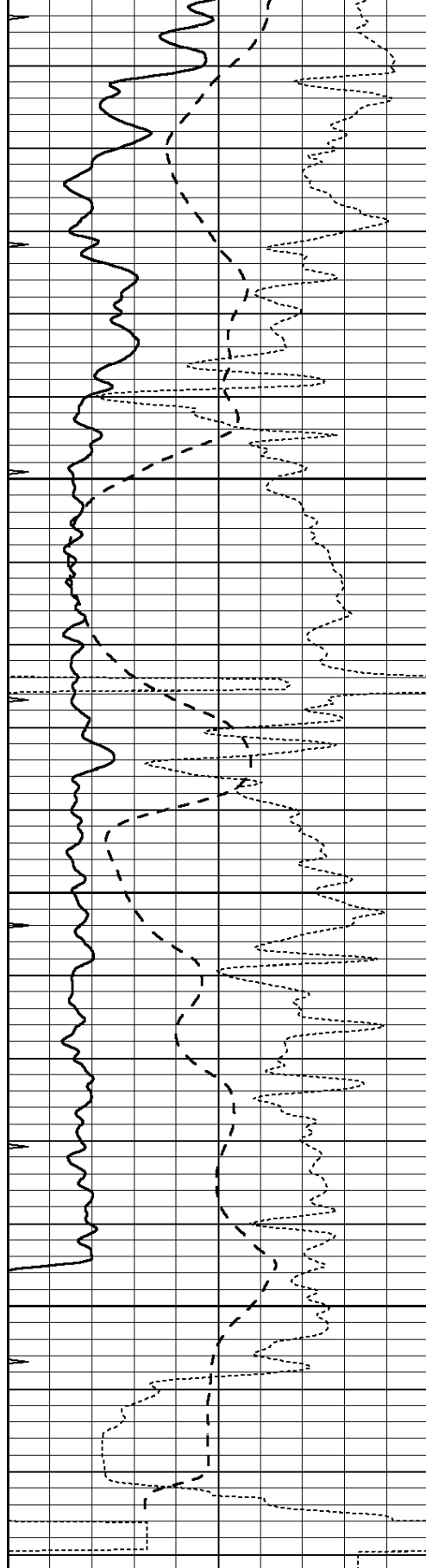
0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	RxoRt	50
0	MINMK	20

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



4950





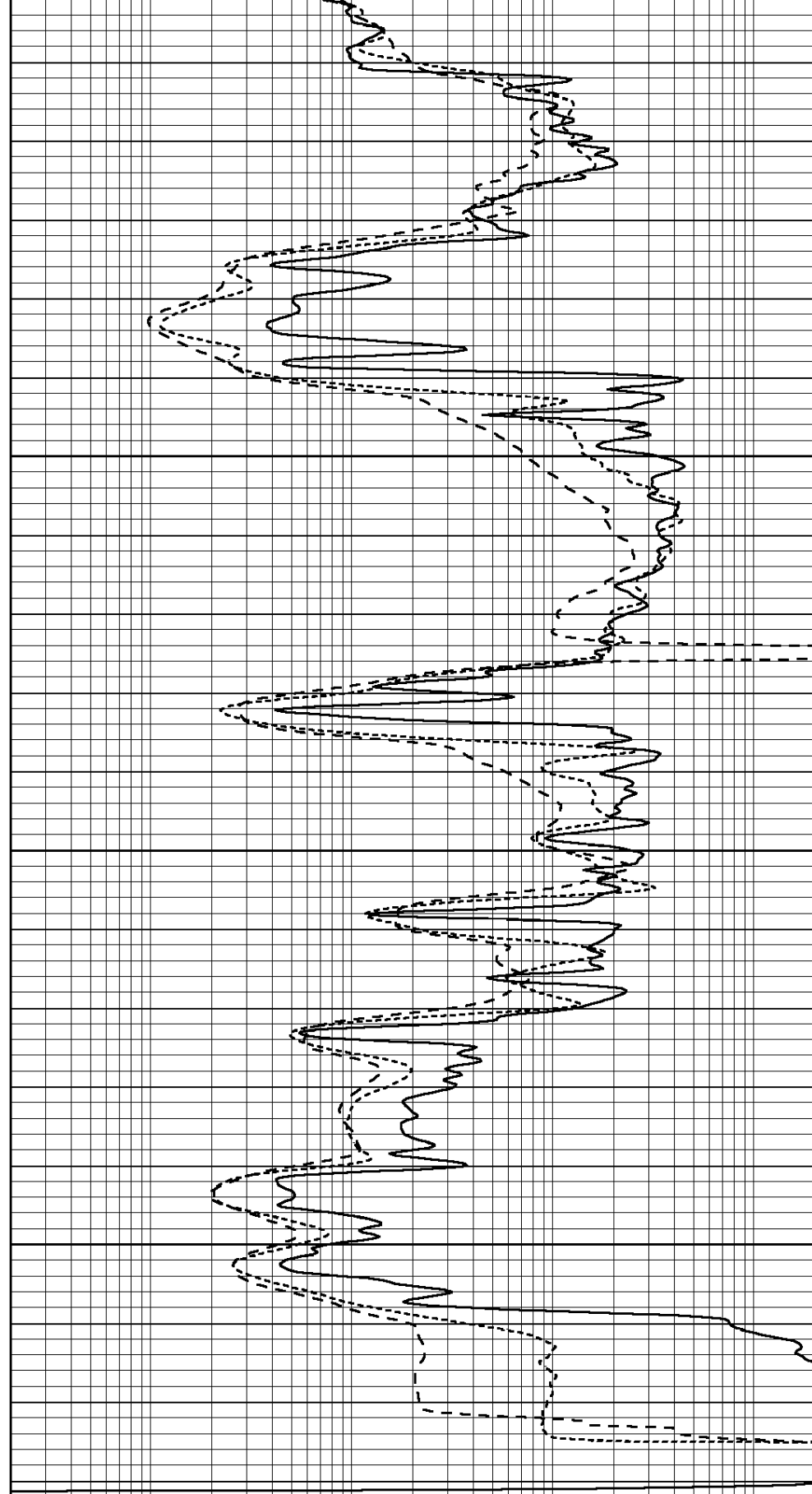
0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	RxoRt	50
0	MINMK	20

5000

5050

5100

5150



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

Calibration Report

Database File: 007744ddn.db
 Dataset Pathname: pass3.1A
 Dataset Creation: Sun Sep 25 22:16:45 2011

Dual Induction Calibration Report

Serial-Model: DIL2-GEAR
 Performed: Sun Sep 25 21:07:27 2011

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.002	0.667	V	0.000	400.000	mmho/m	530.000	5.000
Medium	-0.003	0.739	V	0.000	462.500	mmho/m	550.000	-6.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.001	0.658	V	0.000	400.000	mmho/m	609.010	-0.700
Medium	0.015	0.761	V	0.000	462.500	mmho/m	620.392	-9.326

Compensated Density Calibration Report

Serial-Model: GEAR1-GEARHART
 Source / Verifier: 147 / 147
 Master Calibration Performed: Sun Sep 25 21:06:43 2011

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.710	g/cc	1243.76	629.14	cps
Aluminum	2.580	g/cc	282.16	435.01	cps
Spine Angle = 76.03			Density/Spine Ratio = 0.569		
	Size		Reading		
Small Ring	9.00	in	3.44	V	
Large Ring	14.00	in	5.20	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: Sun Sep 25 21:06:08 2011

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps

Calibrator Reading: 1.0 cps

Sensitivity: 0.6500 GAPI/cps