



**COMPLETION
& PRODUCTION
SERVICES CO.**

**DUAL
INDUCTION
LOG**

Company	RITCHIE EXPLORATION, INC.		
Well	KINCHELOE 6 B 1		
Field	WILDCAT		
County	FORD	State	KANSAS
Location:	API # : 15-057-20876-00-00		Other Services
5' S & 150' W OF NW - NE - NW		CNL/CDL	
335' FNL & 1500' FWL			
SEC 6 TWP 27 S RGE 22 W			
Permanent Datum	GROUND LEVEL	Elevation	2436
Log Measured From	KELLY BUSHING 10' A.G.L.	K.B. 2446	
Drilling Measured From	KELLY BUSHING	D.F. 2444	
		G.L. 2436	
Date	02/23/2013		
Run Number	ONE		
Depth Driller	5170		
Depth Logger	5172		
Bottom Logged Interval	5170		
Top Log Interval	00		
Casing Driller	352		
Casing Logger	349		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.05 / 46		
pH / Fluid Loss	9.5 / 11.2		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	.65 @ 64 F		
Rmf @ Meas. Temp	.52 @ 64 F		
Rmc @ Meas. Temp	.78 @ 64 F		
Source of Rmf / Rmc	MEASURED		
Rim @ BHT	.32 @ 127 F		
Time Circulation Stopped	3 HOURS		
Time Logger on Bottom	8:00 P.M.		
Maximum Recorded Temperature	127 F		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	MIKE GARRISON		
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

NABORS COMPLETION & PRODUCTION CO.
785-628-6395
THANK YOU FOR YOUR BUSINESS
DIRECTIONS:SPEARVILLE, KS- 8 1/2 SOUTH TO MARSHALL RD, 2 1/2 WEST, SOUTH INTO

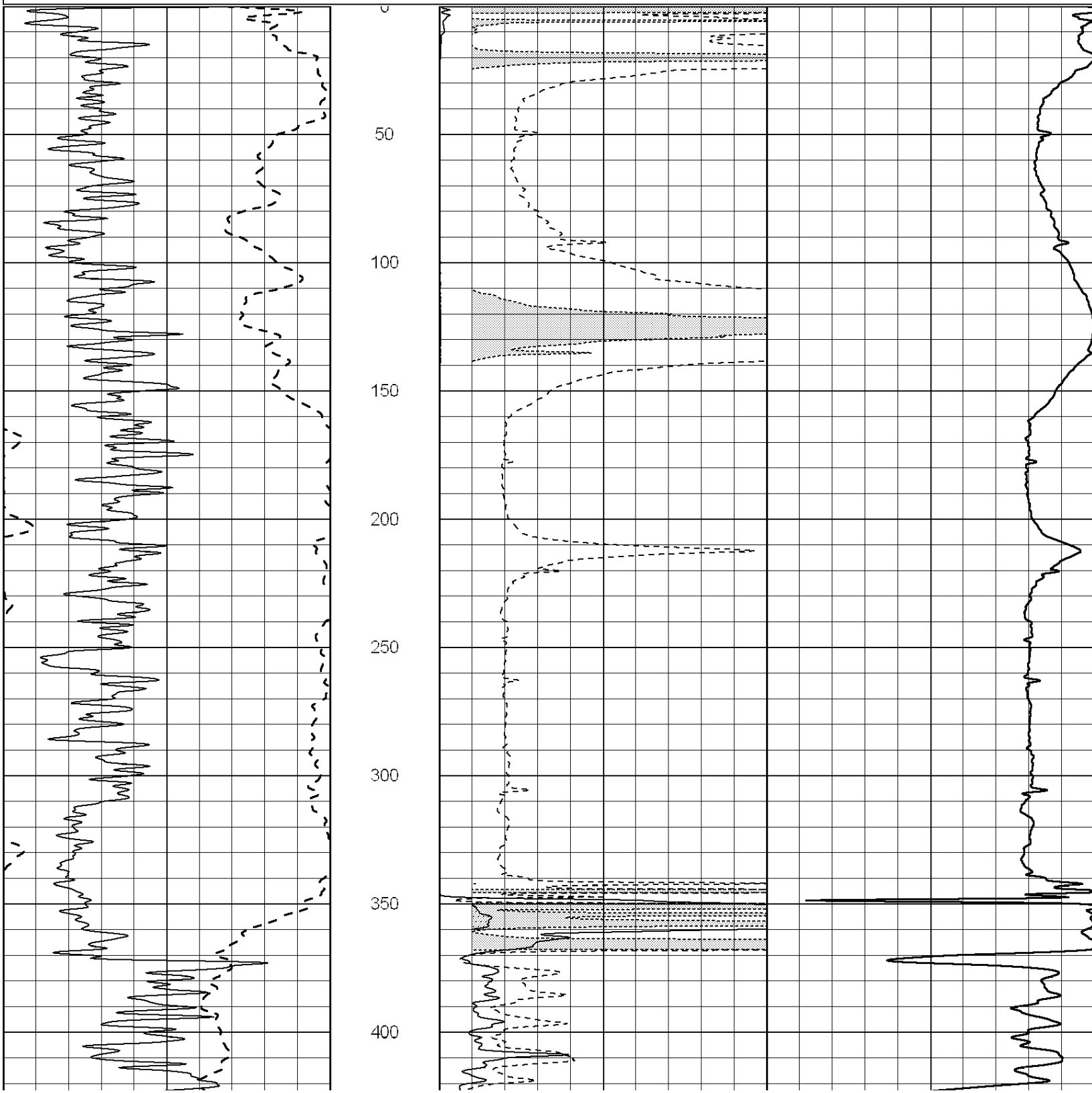


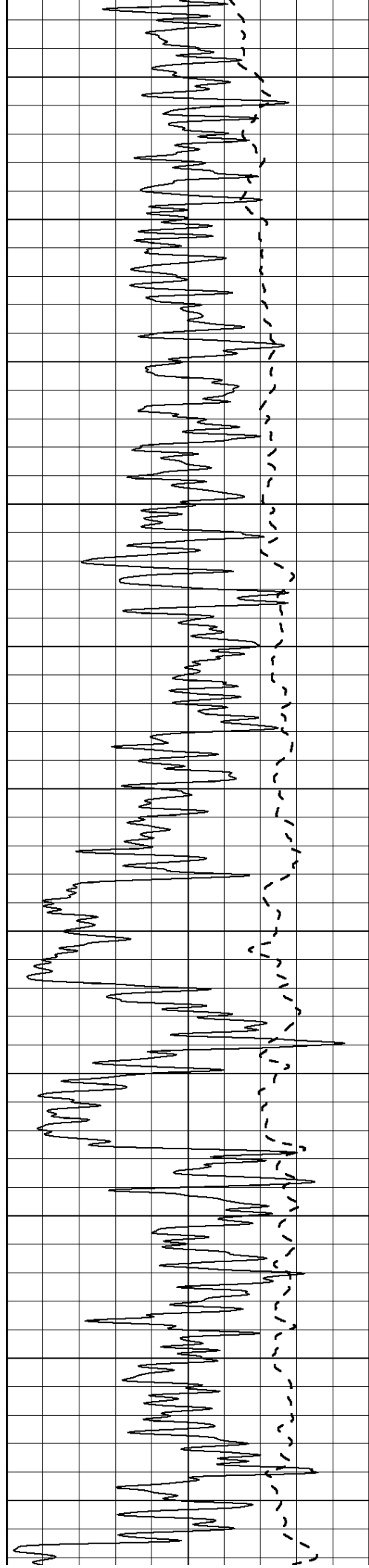
**COMPLETION
& PRODUCTION**

MAIN SECTION

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 Dataset Pathname: pass3.2
 Presentation Format: dil2
 Dataset Creation: Sat Feb 23 21:43:39 2013 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:600

0	Gamma Ray (GAPI)	150	0	RLL3 (Ohm-m)	50
			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

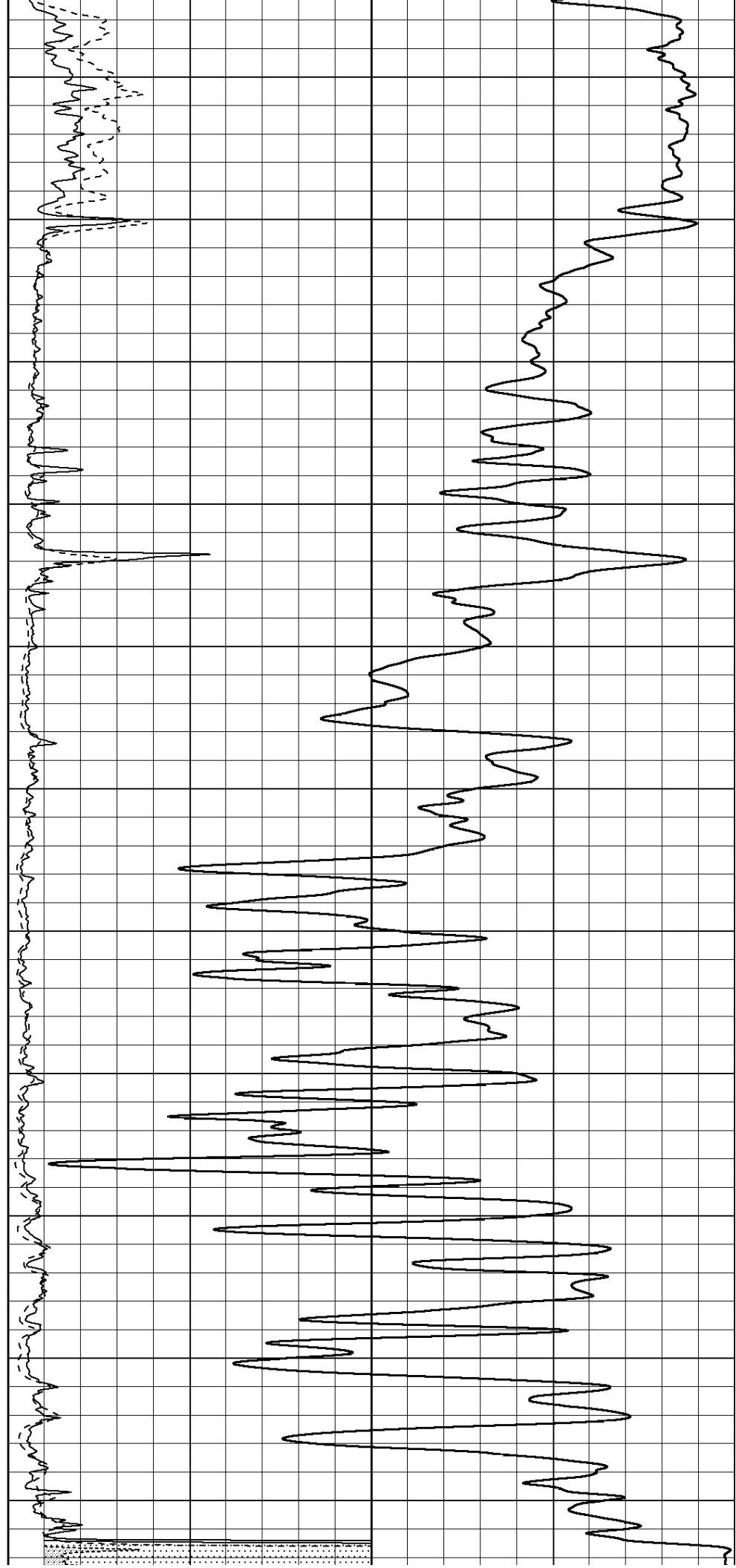
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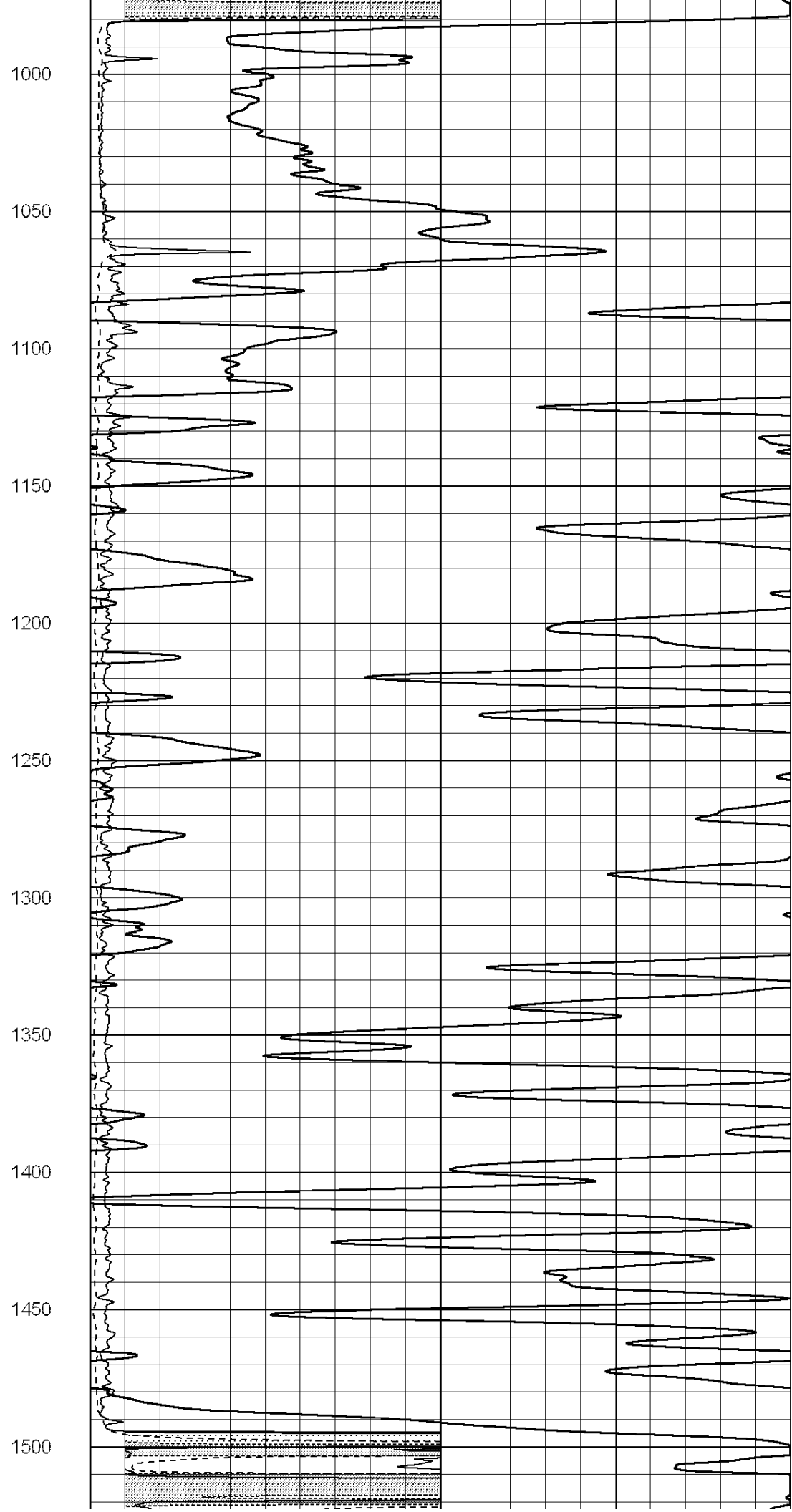
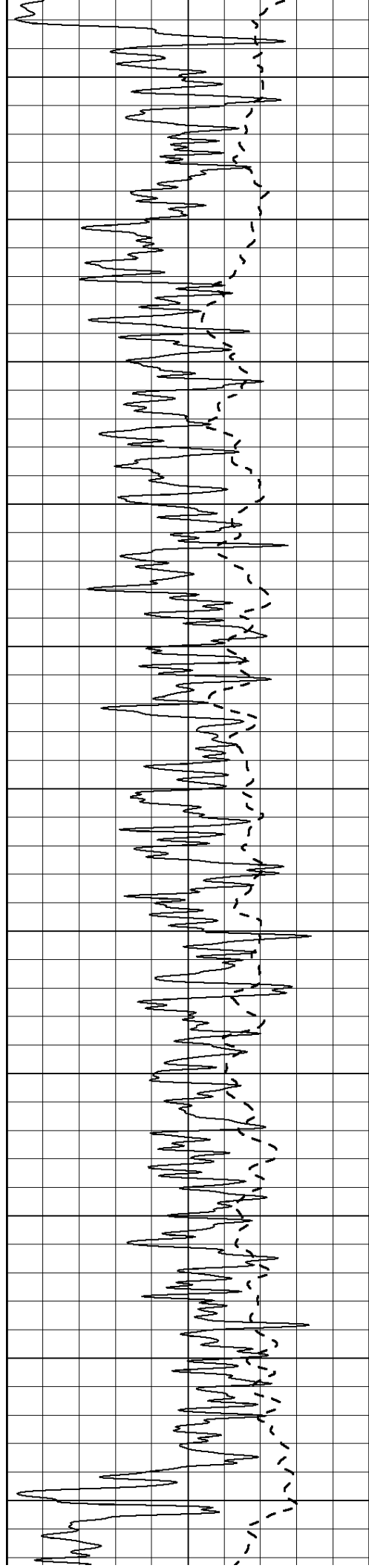
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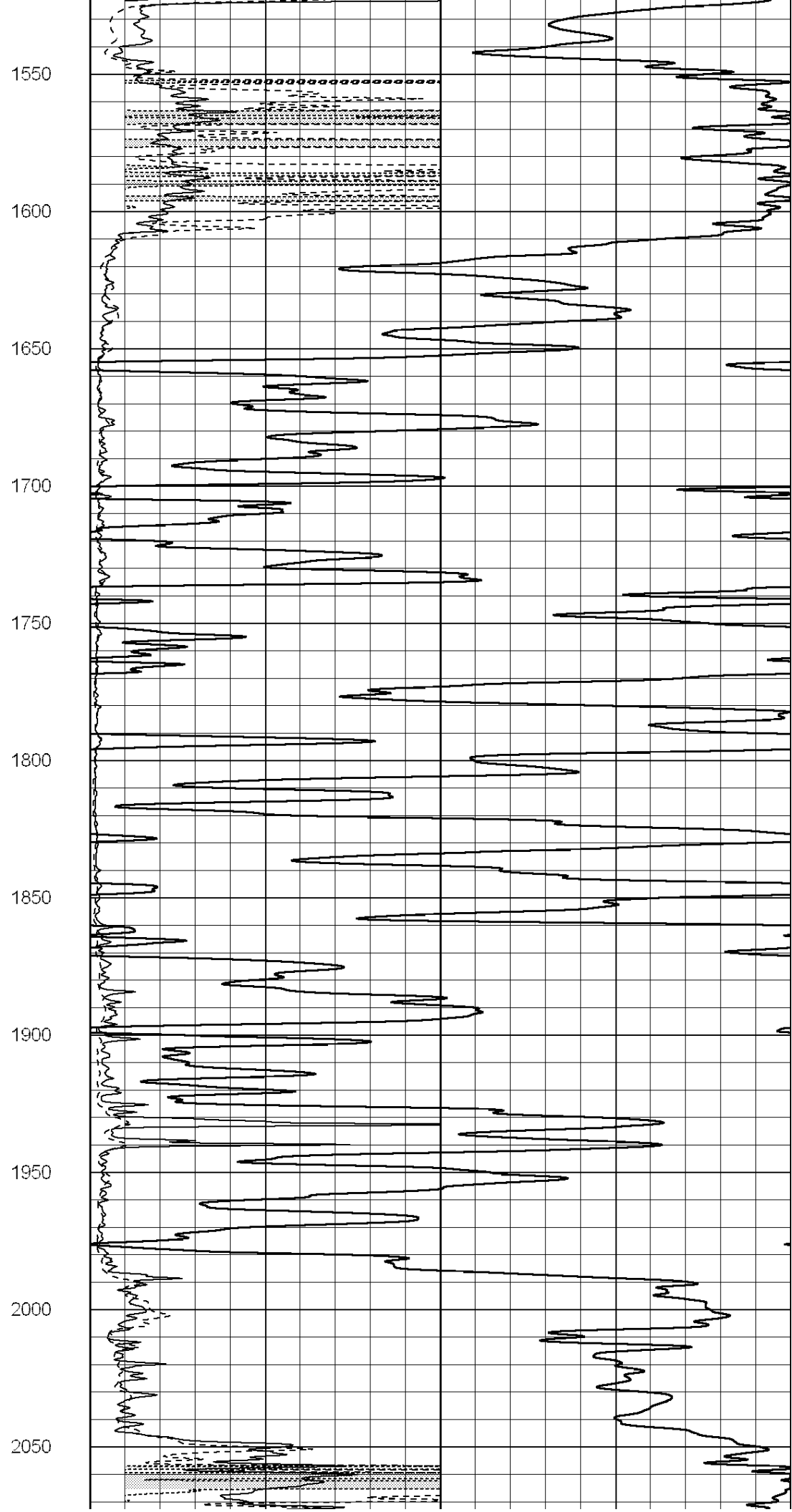
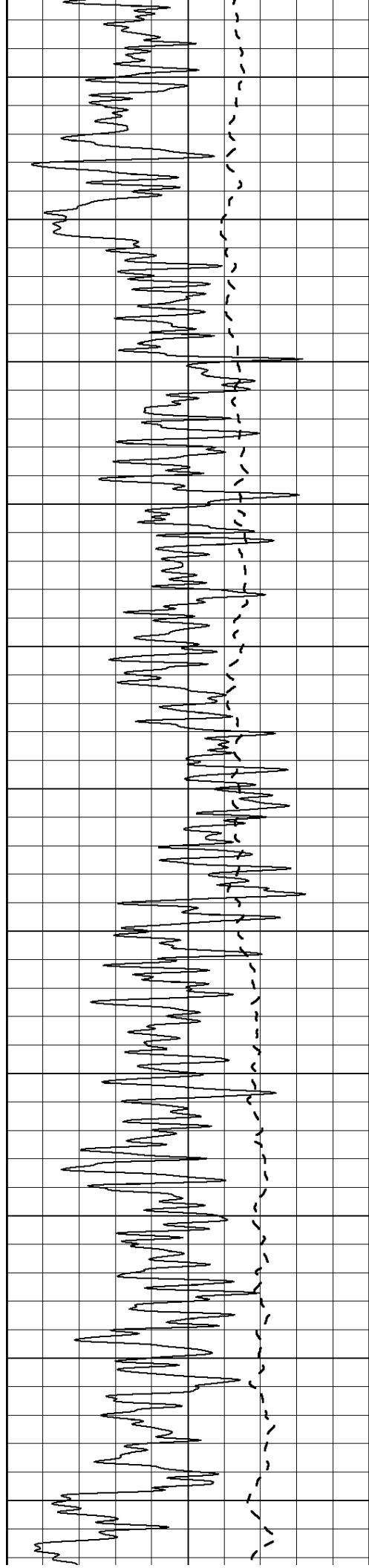
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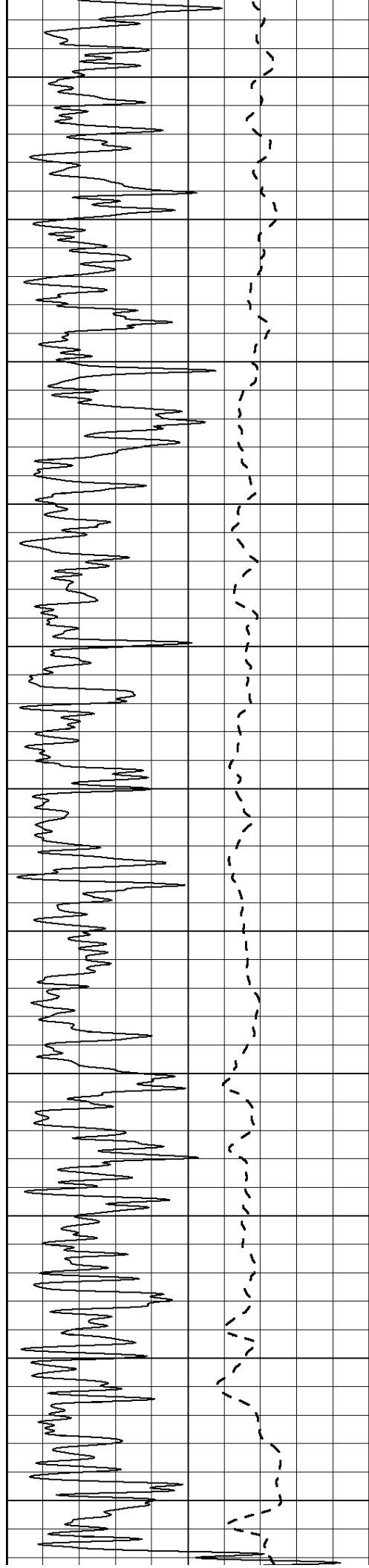
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950









2100

2150

2200

2250

2300

2350

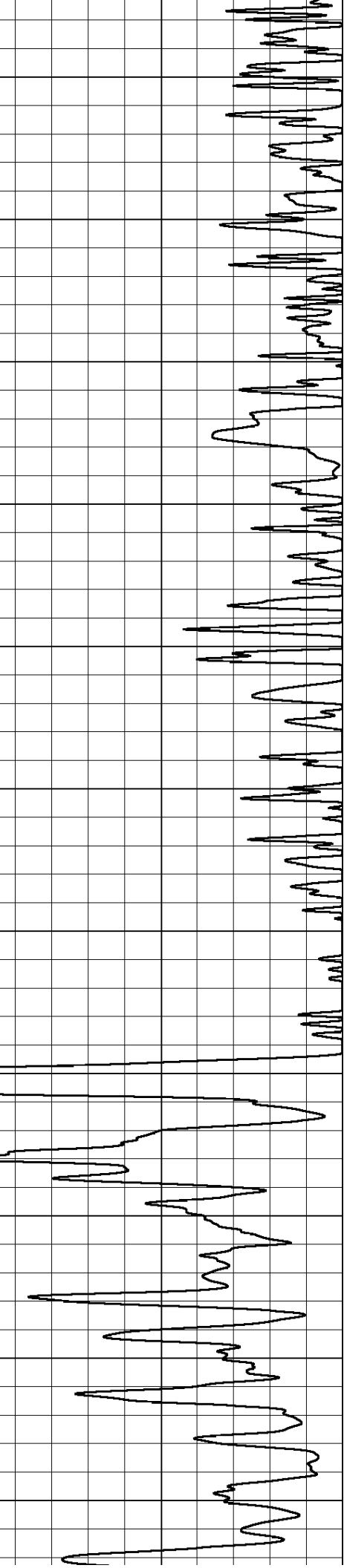
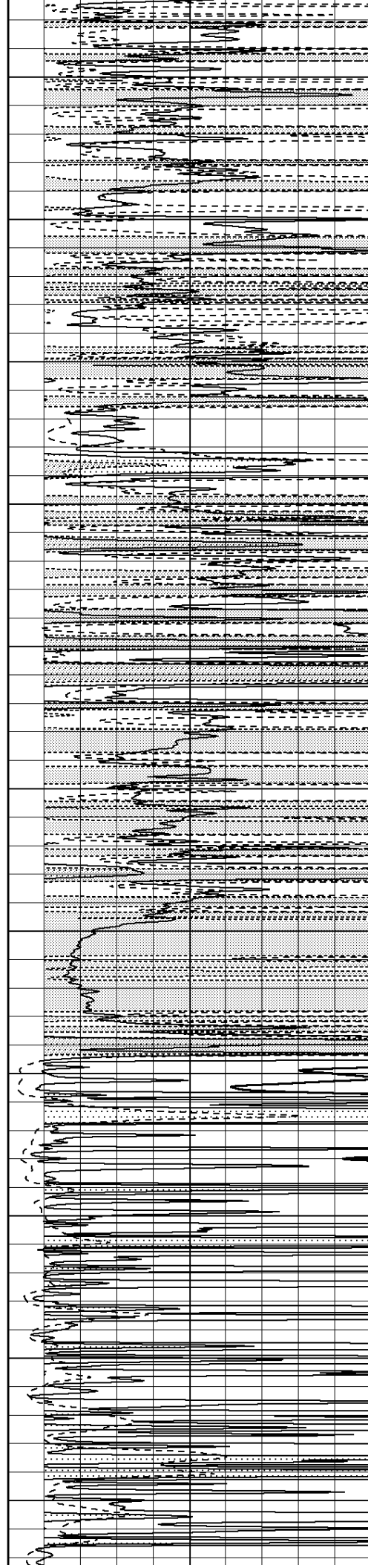
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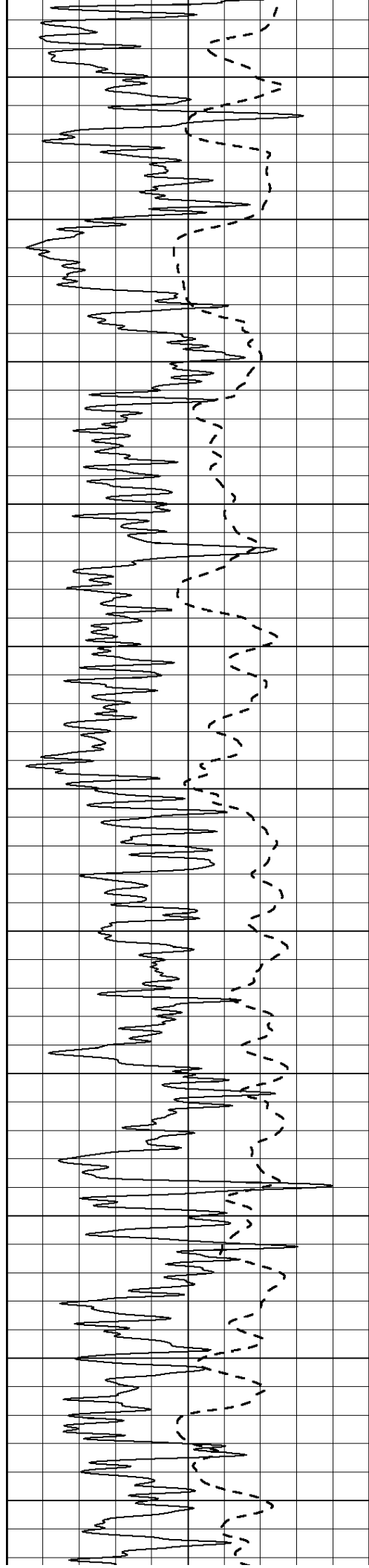
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2500

2550

2600





2650

2700

2750

2800

2850

2900

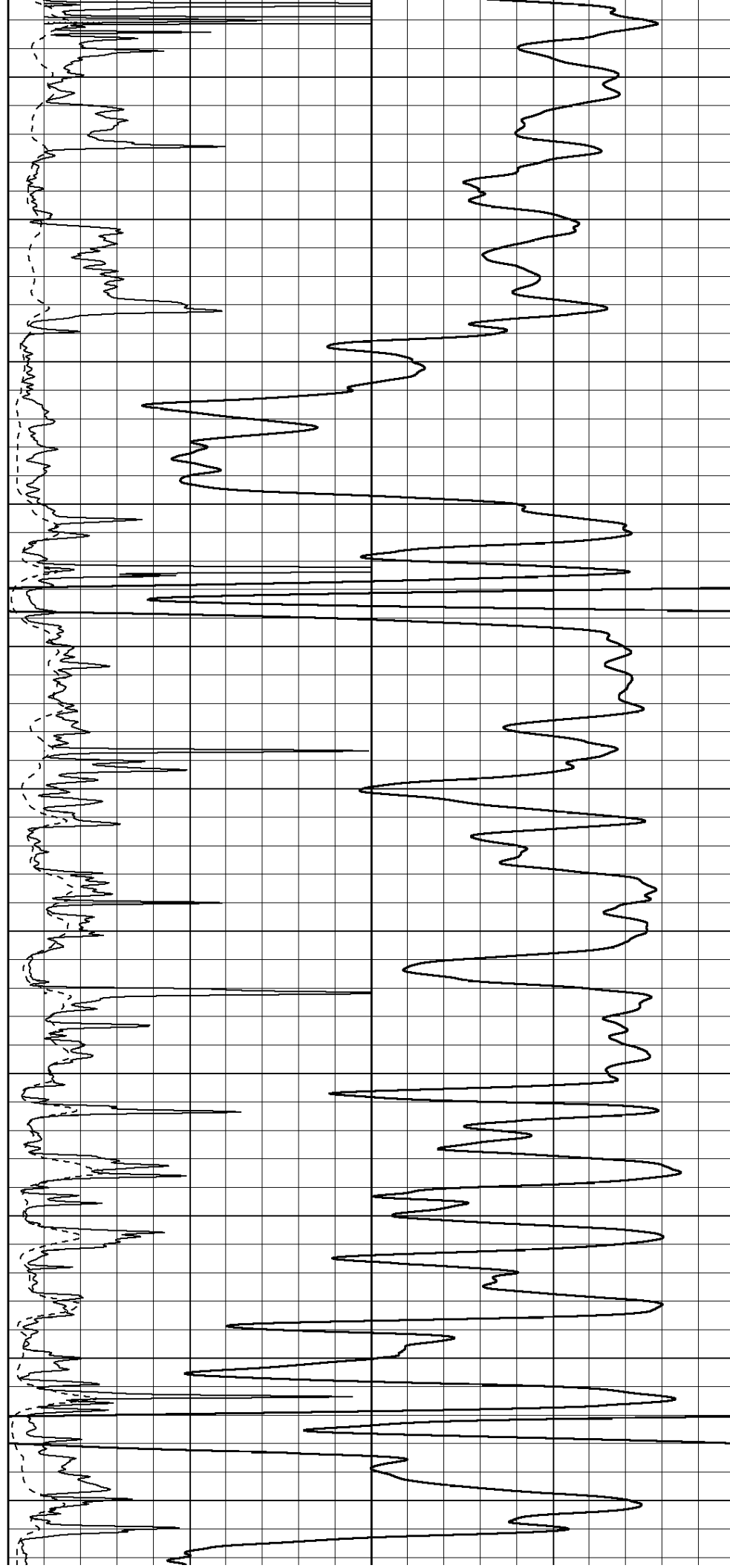
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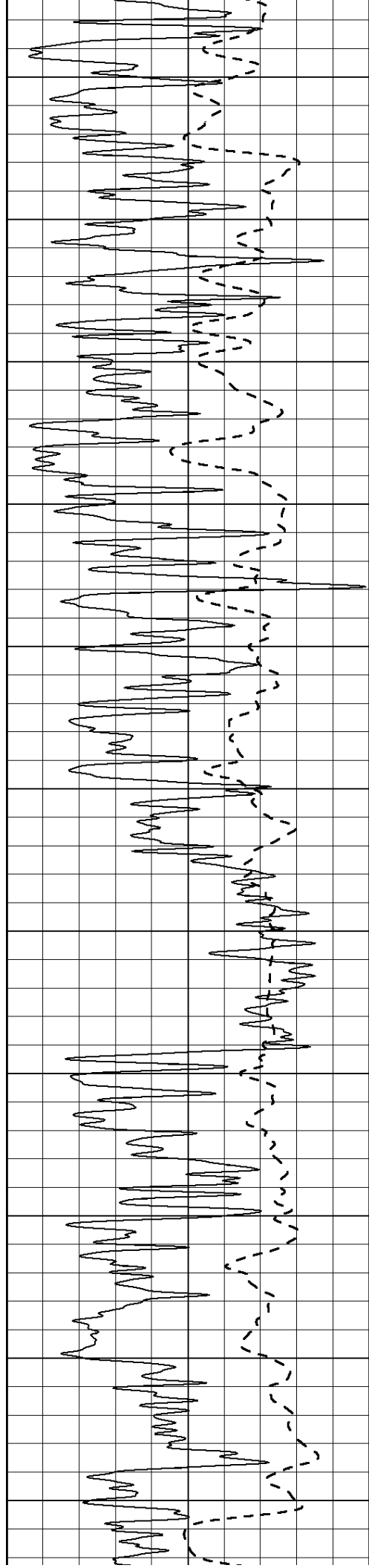
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3050

3100

3150





3200

3250

3300

3350

3400

3450

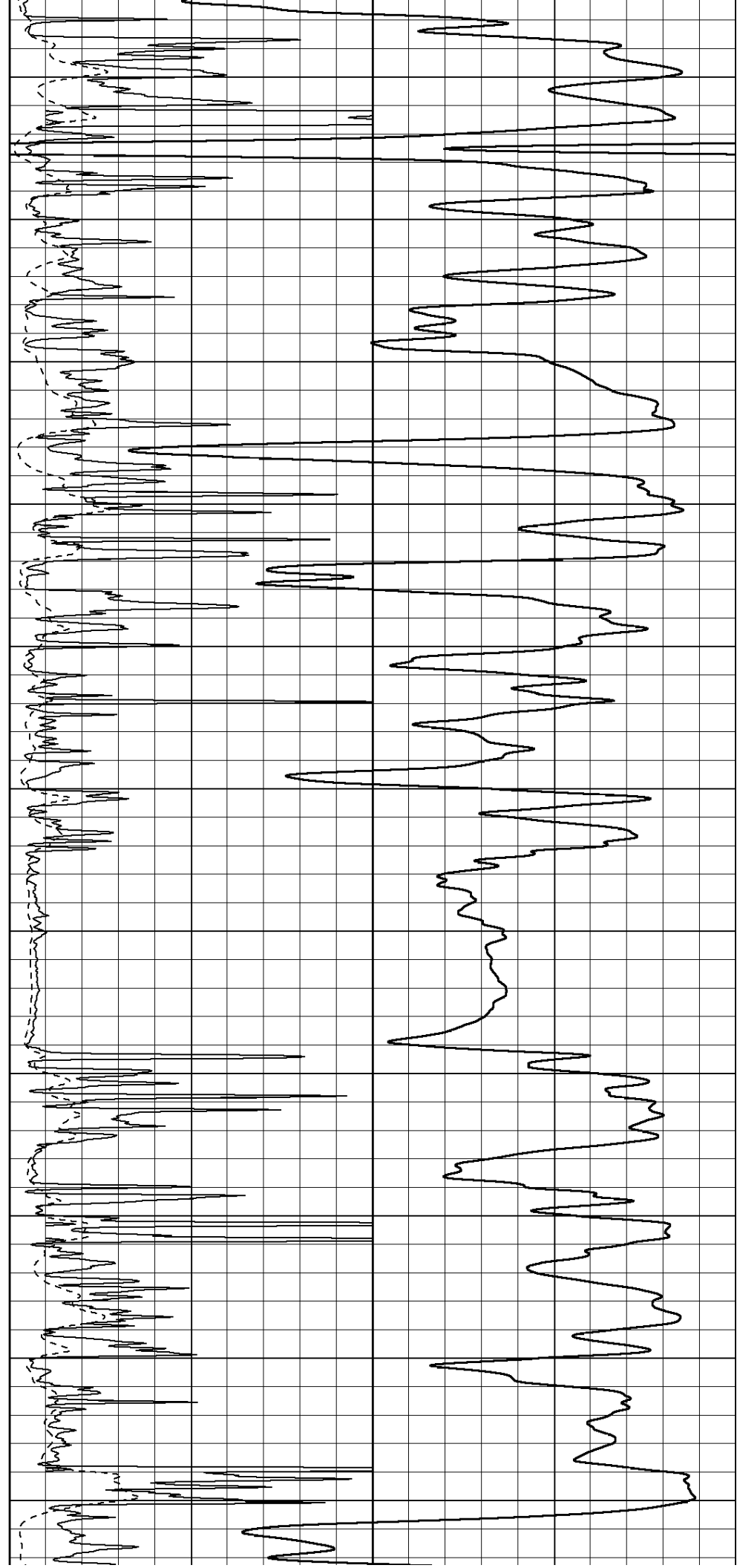
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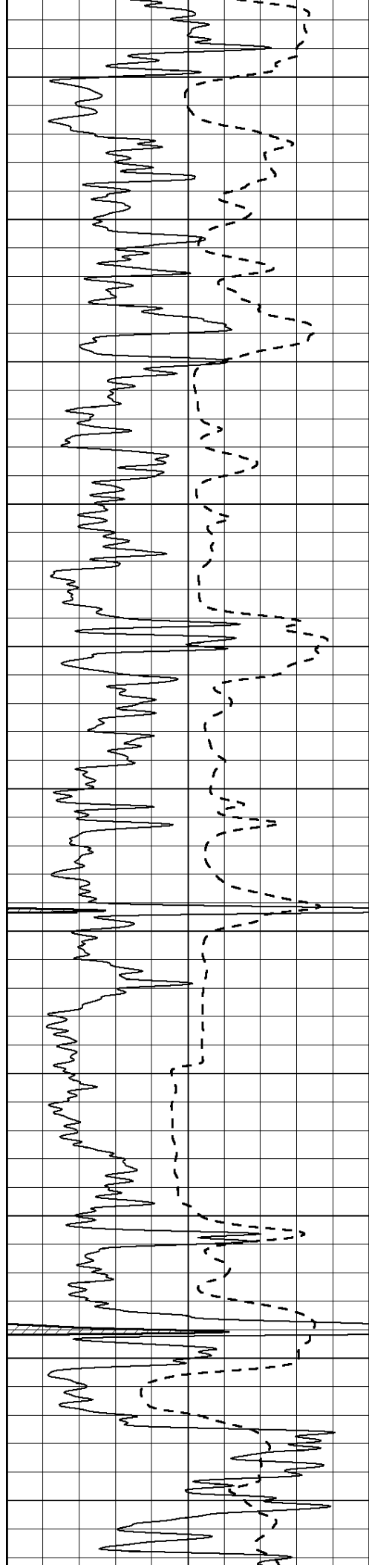
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3700





3750

3800

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3950

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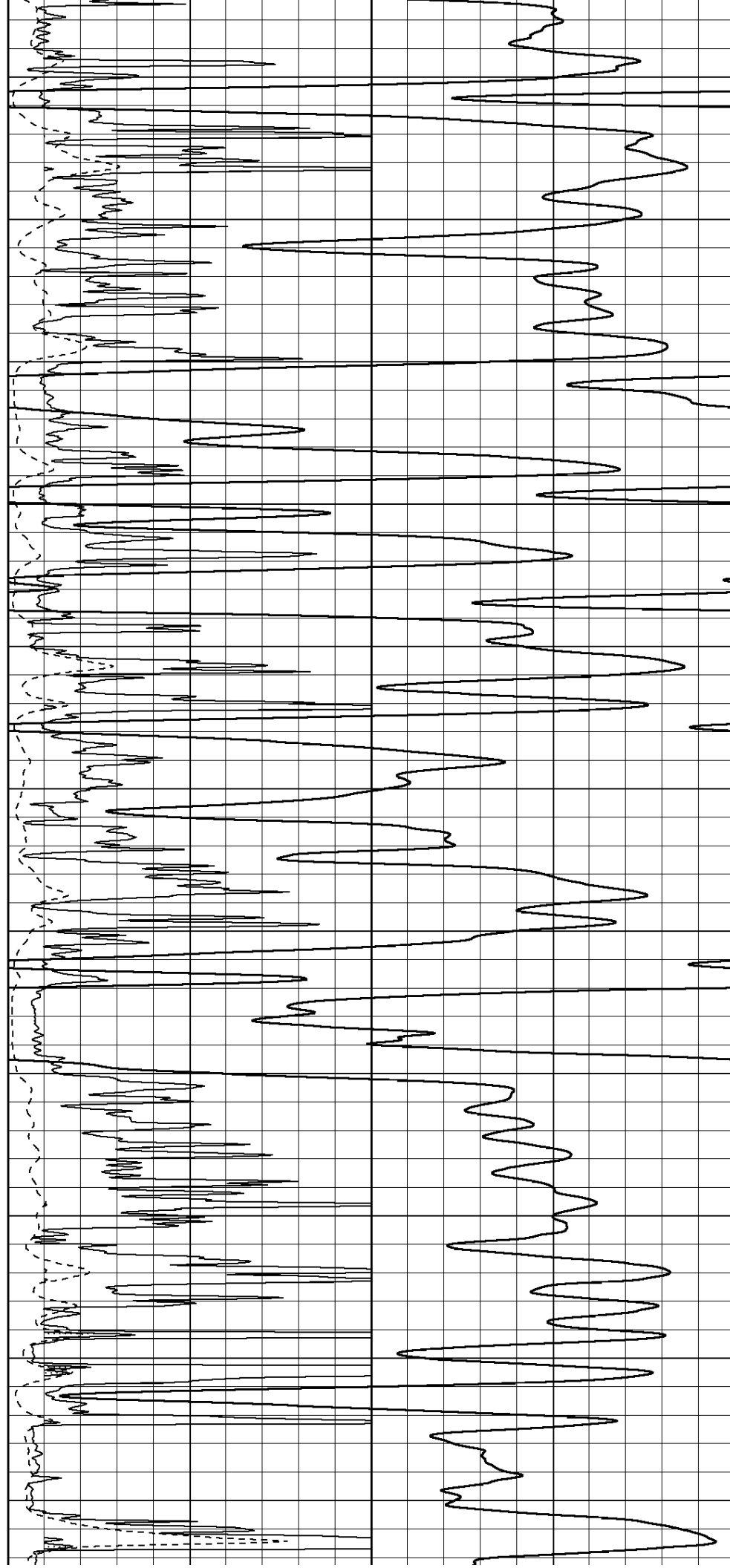
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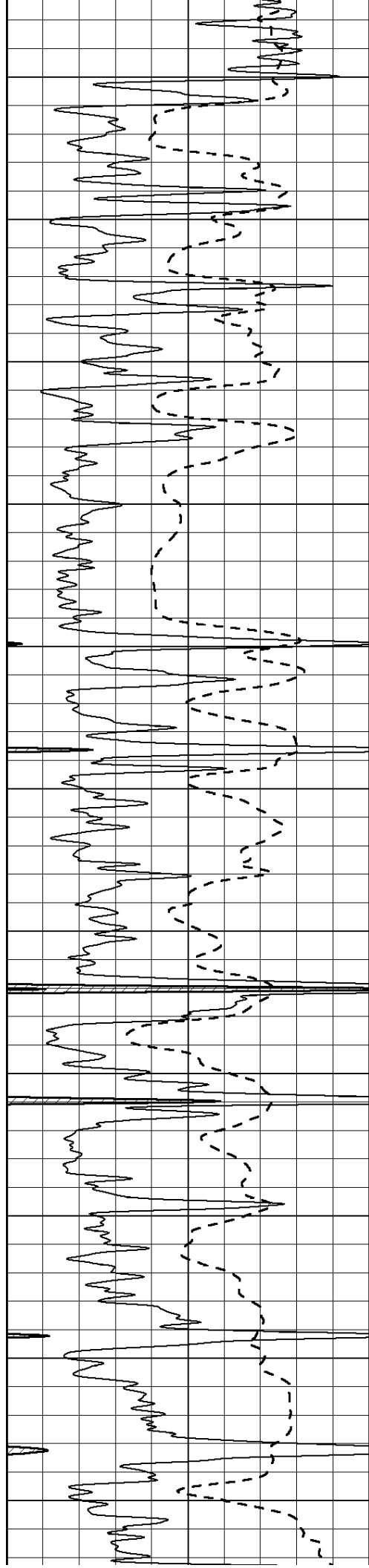
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4150

4200

4250





4300

4350

4400

4450

4500

4550

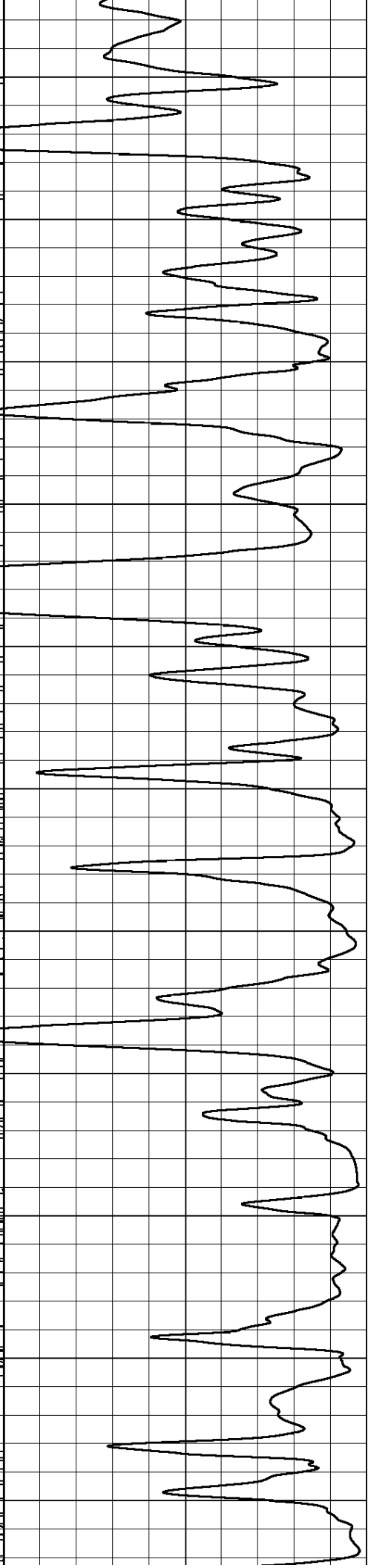
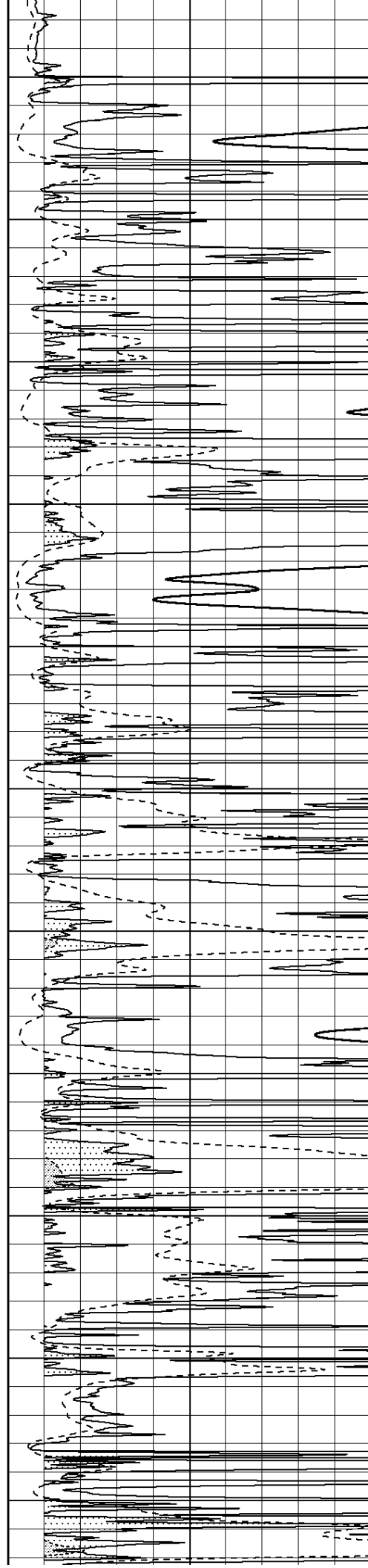
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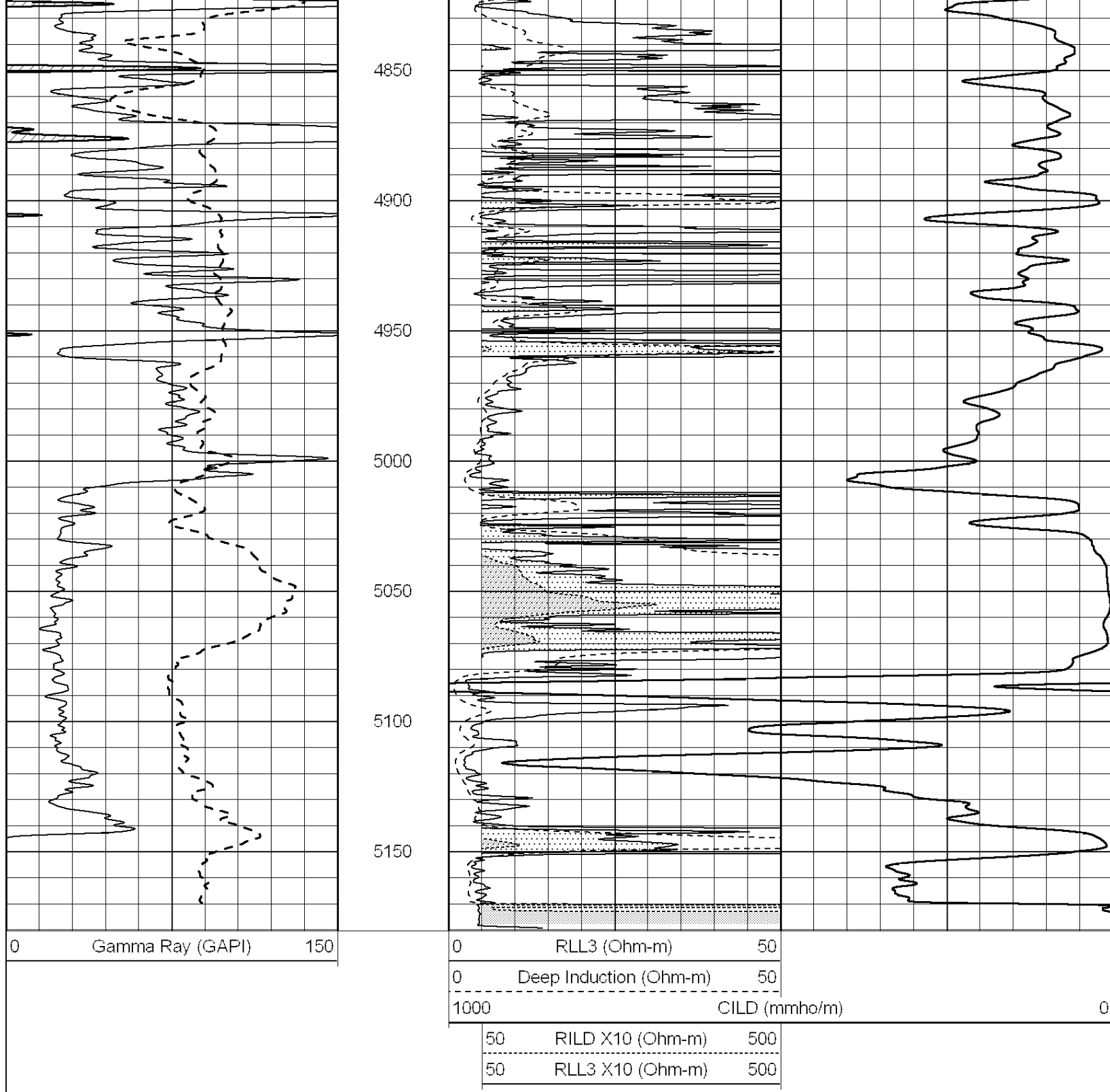
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4800





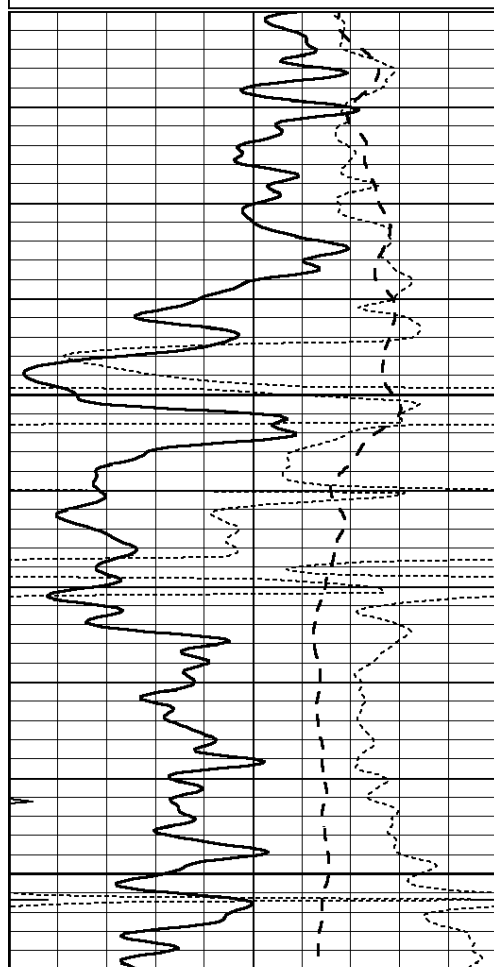
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 Dataset Pathname: pass3.2
 Presentation Format: dil
 Dataset Creation: Sat Feb 23 21:43:39 2013 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240



-100	SP (mV)	100
-250	RxoRt	50
0	MINMK	20

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

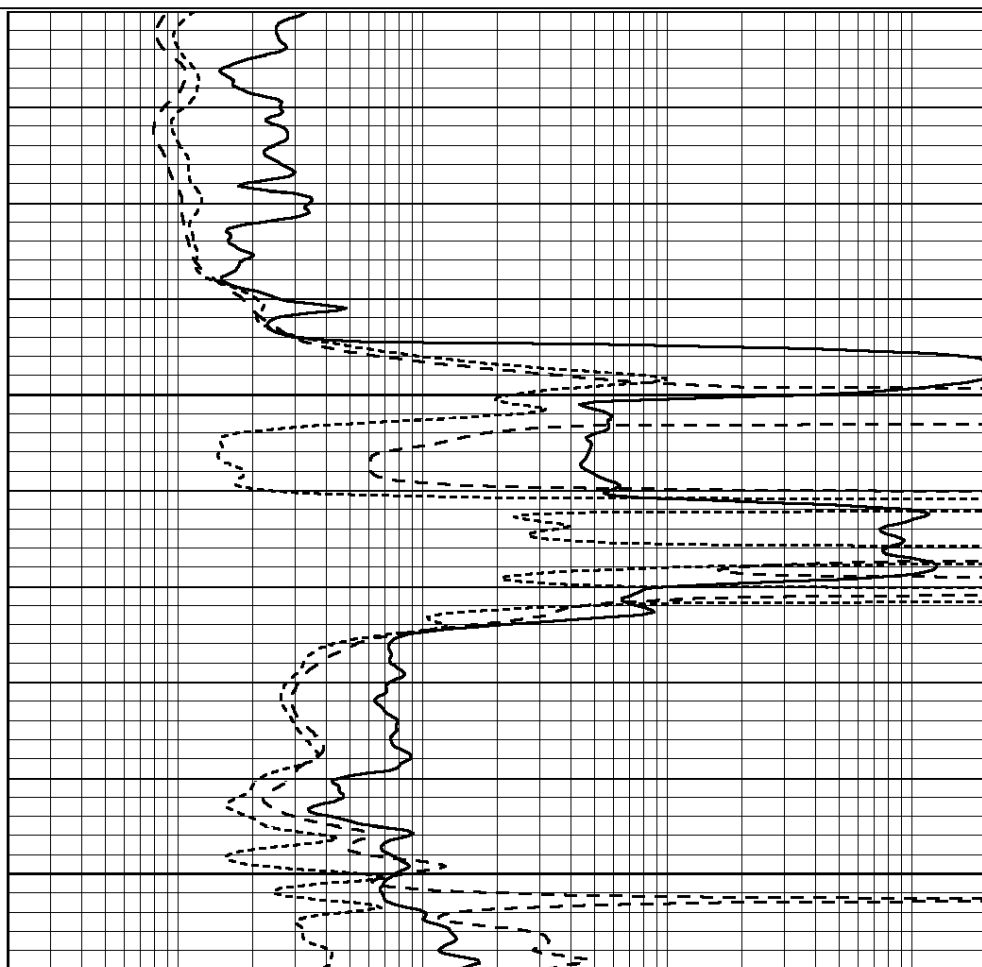


1500

1550

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

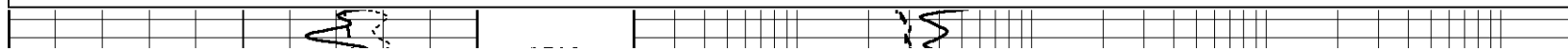


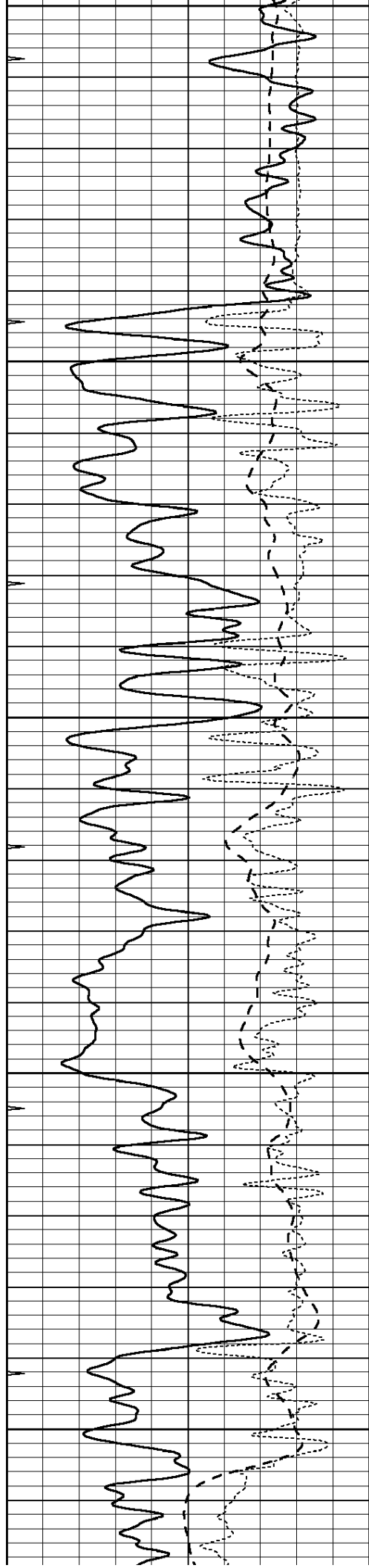
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 Presentation Format: dil
 Dataset Creation: Sat Feb 23 21:43:39 2013 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240

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





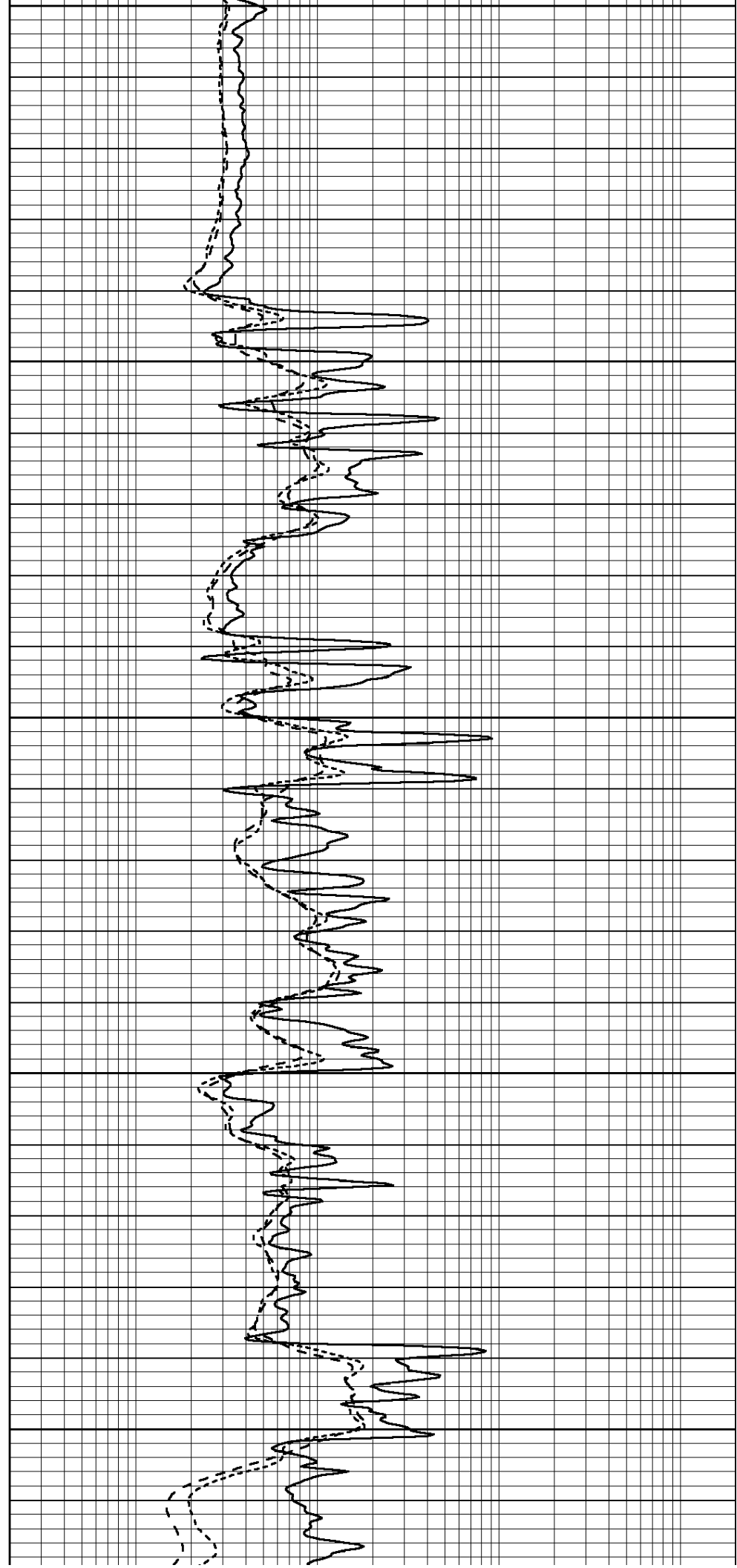
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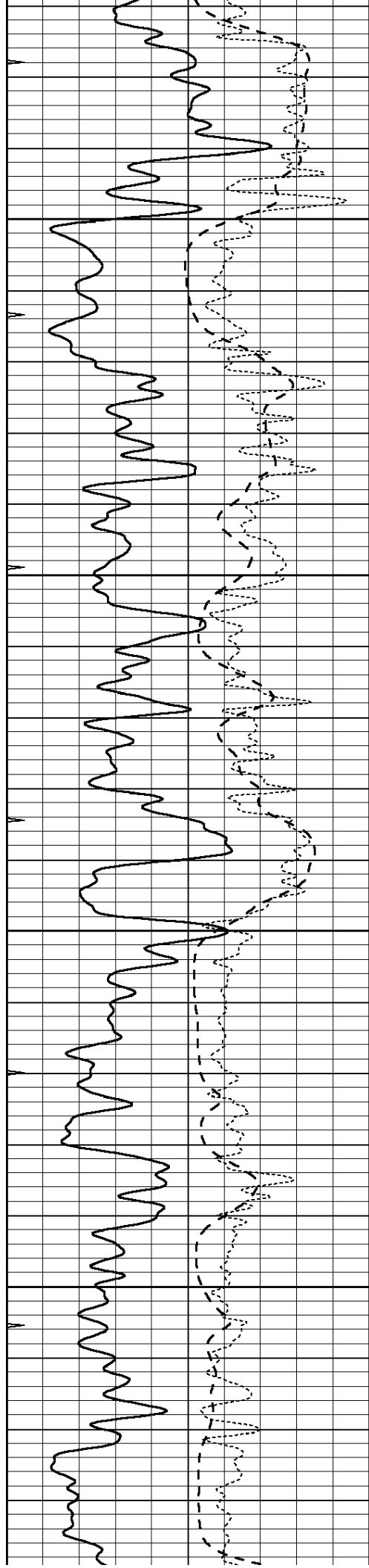
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3700



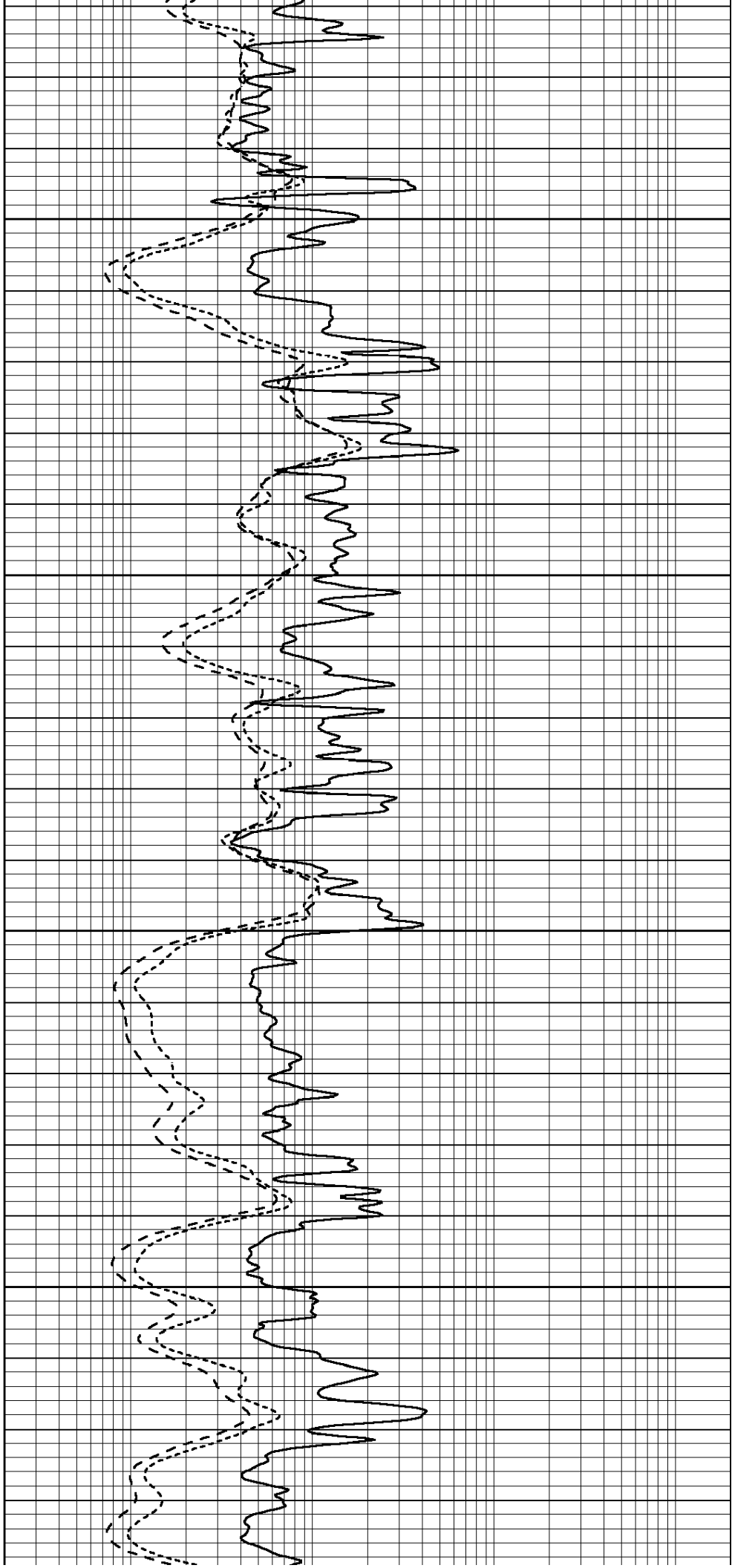


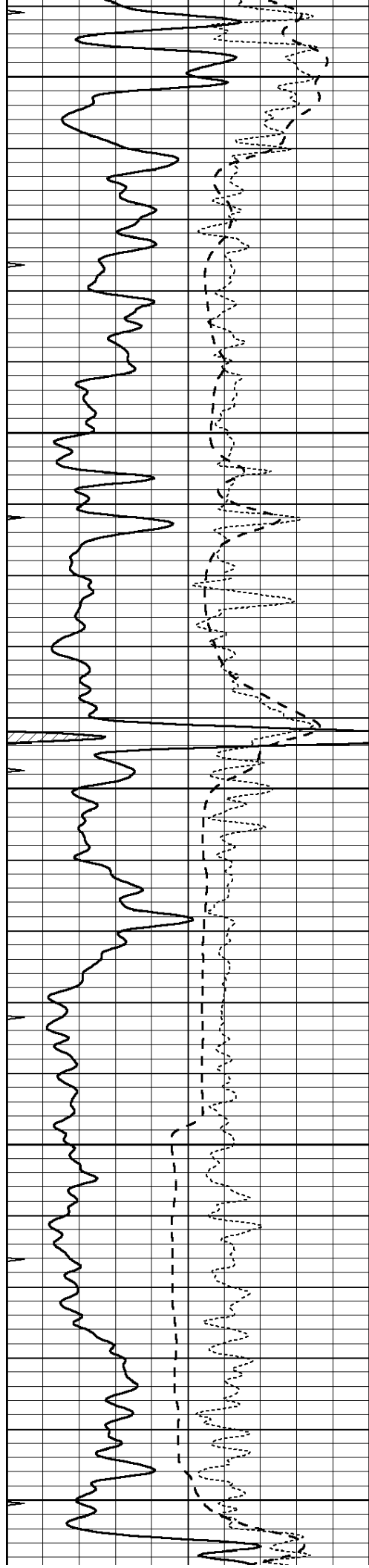
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3850

3900





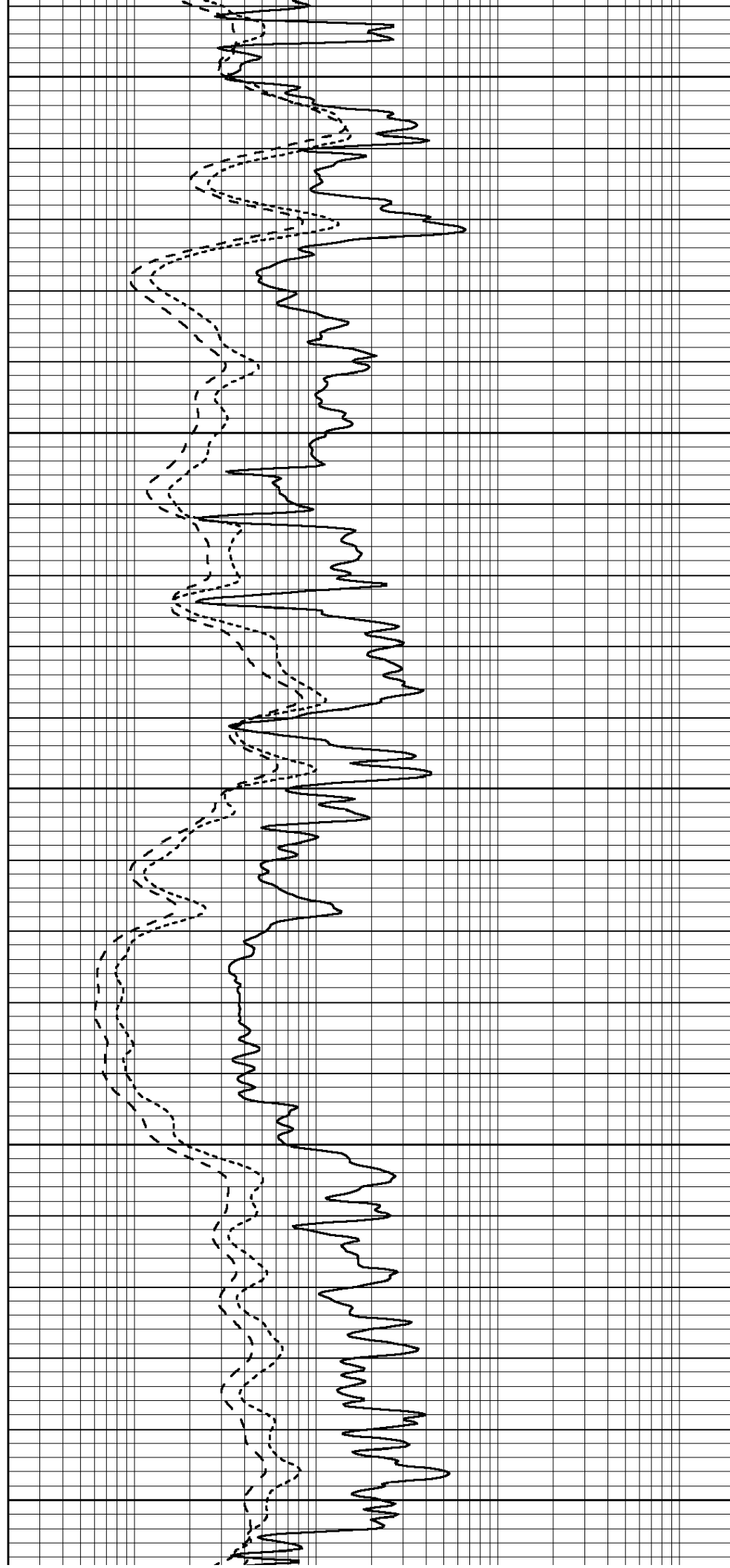
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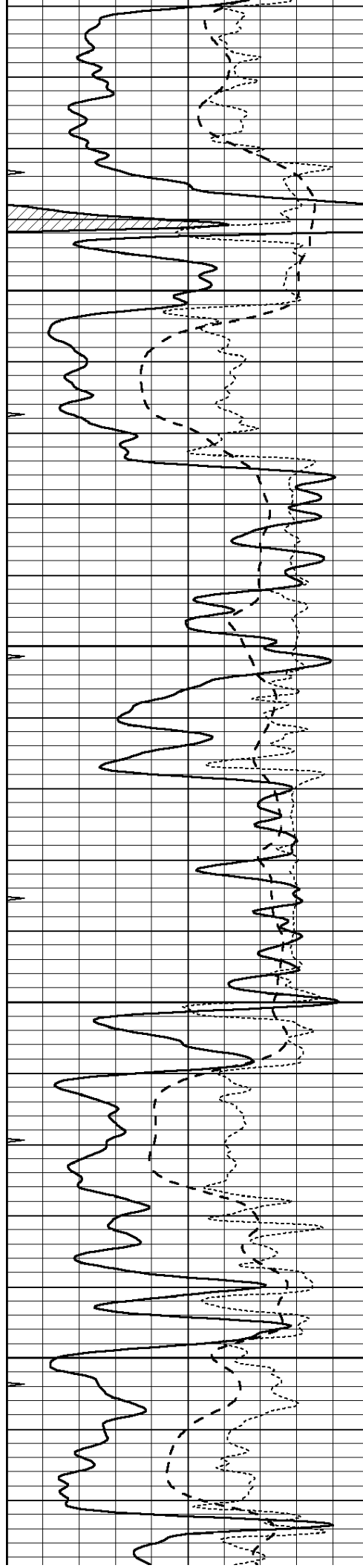
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4050

4100

4150



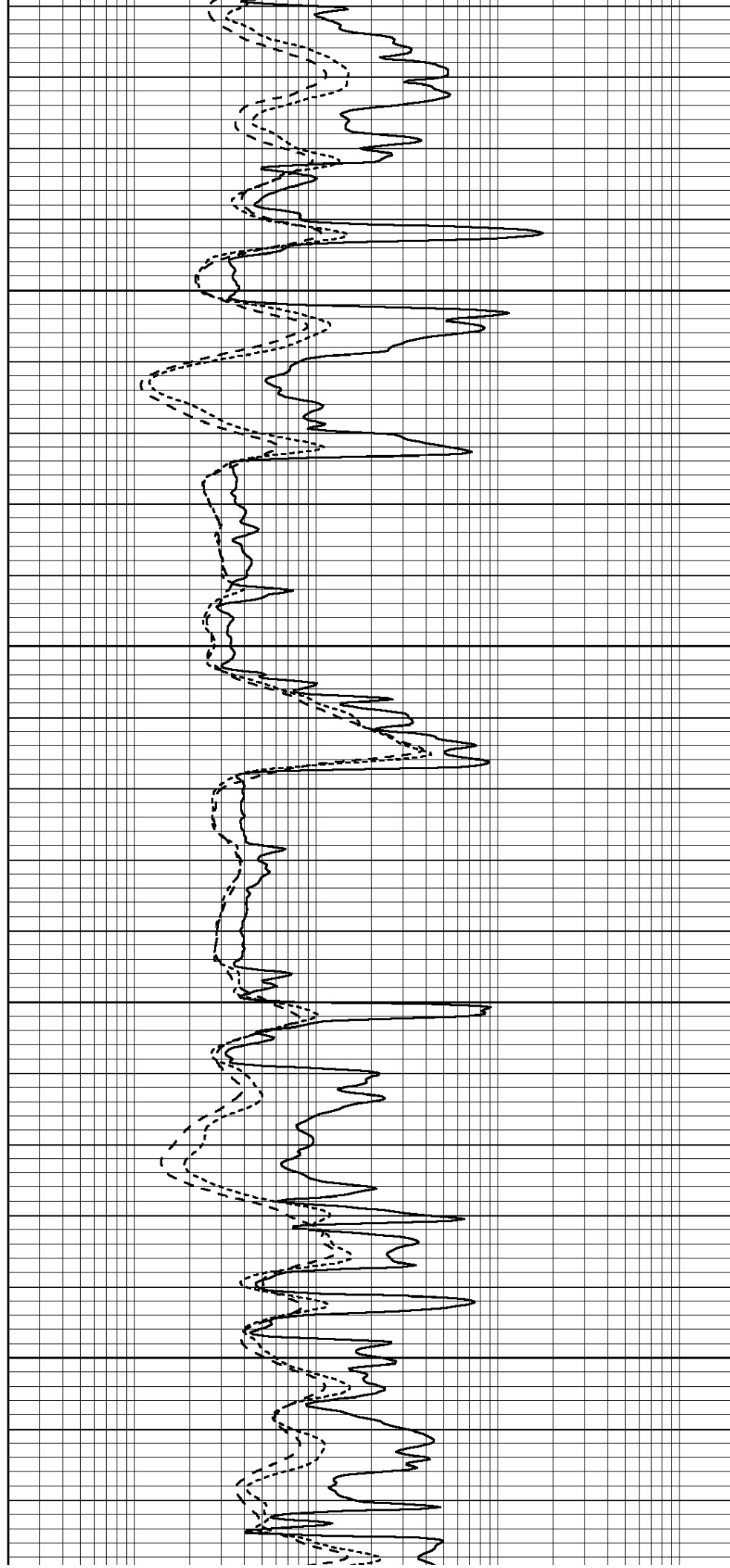


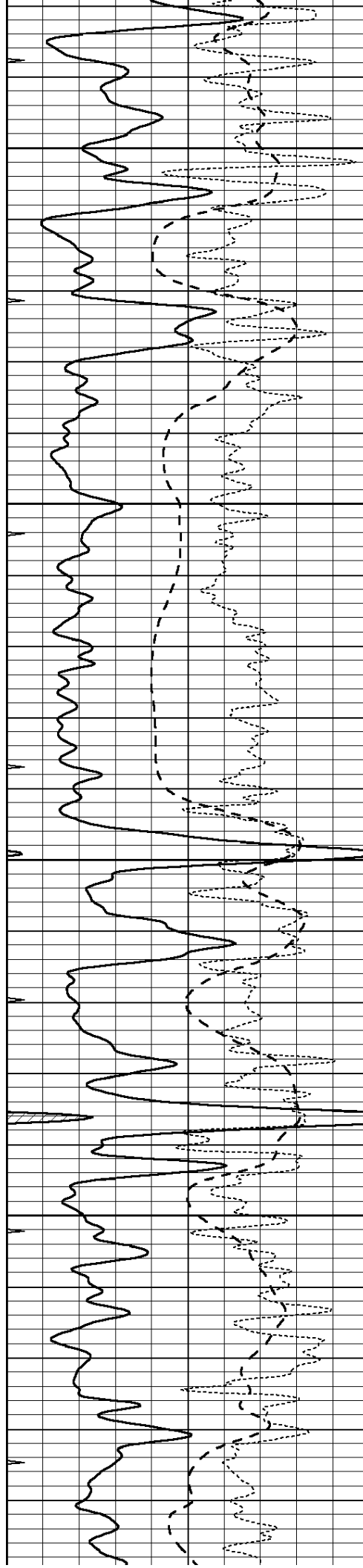
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4350



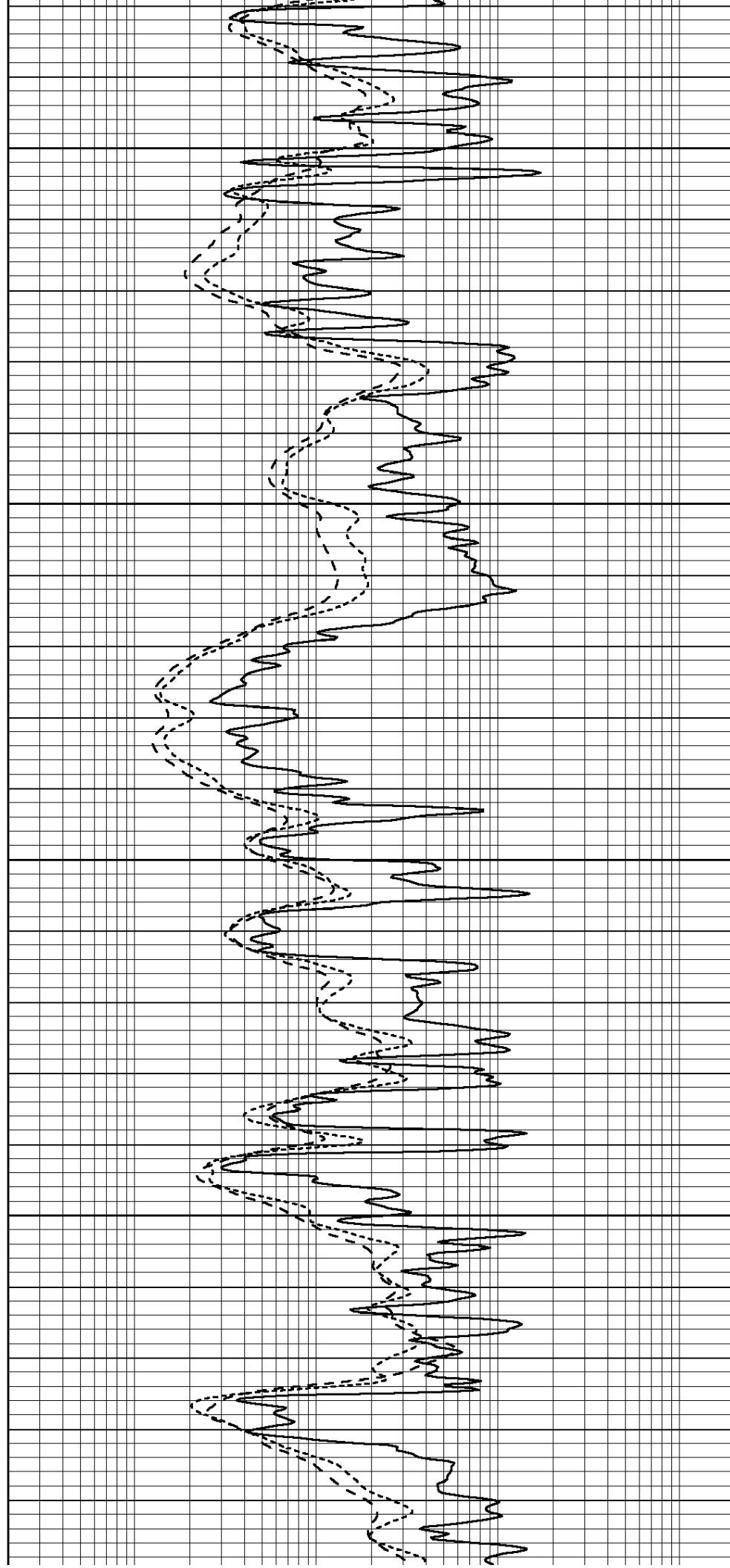


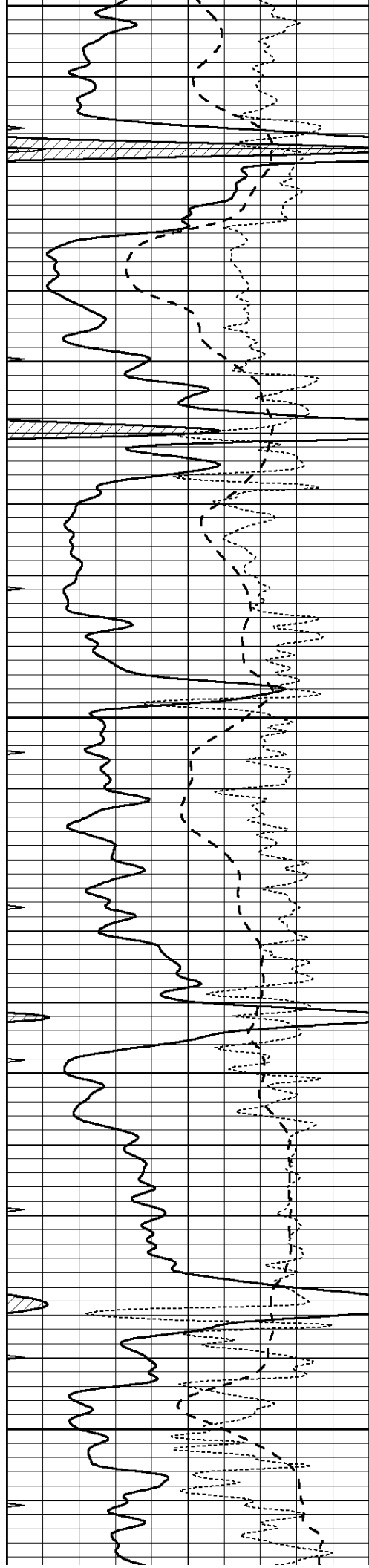
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4500

4550





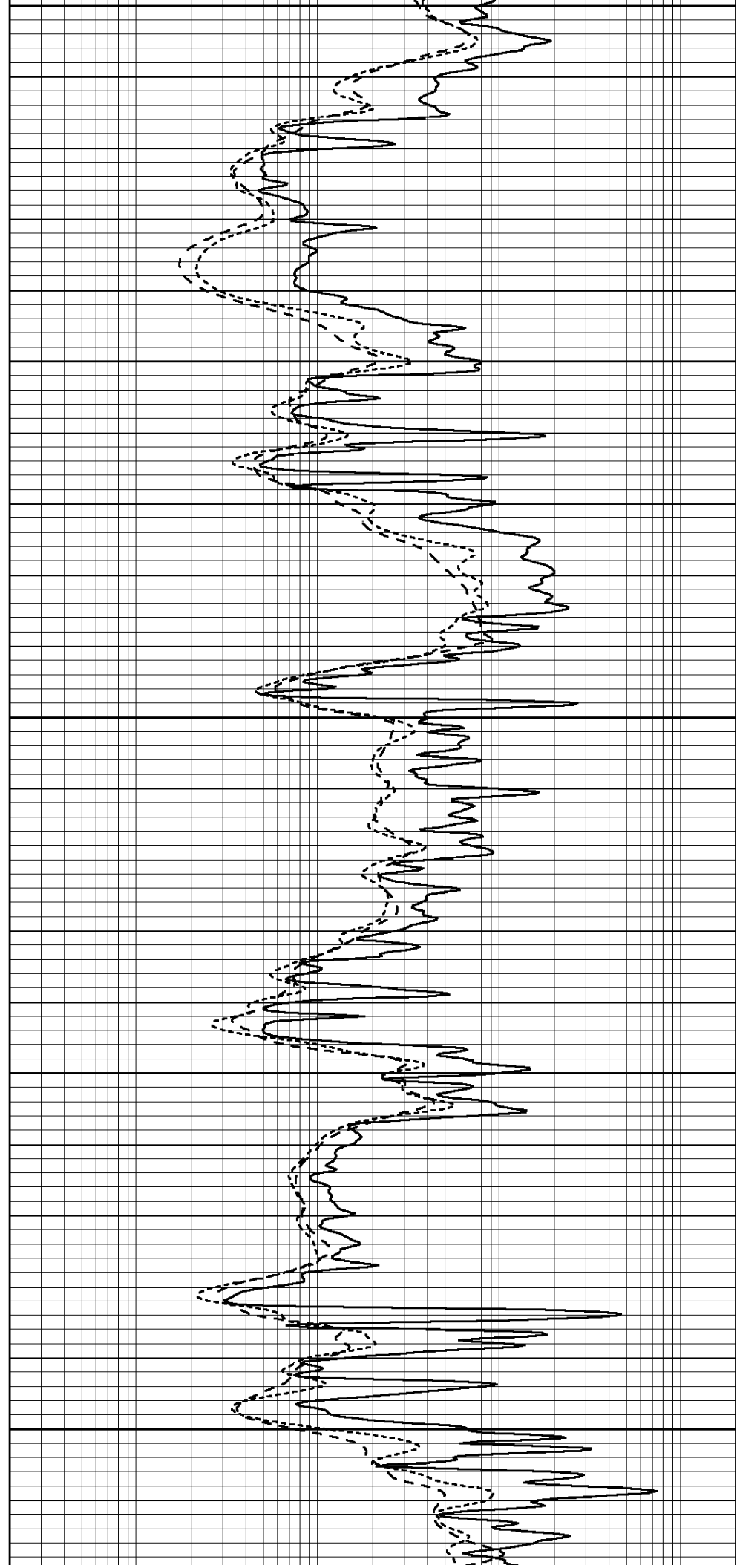
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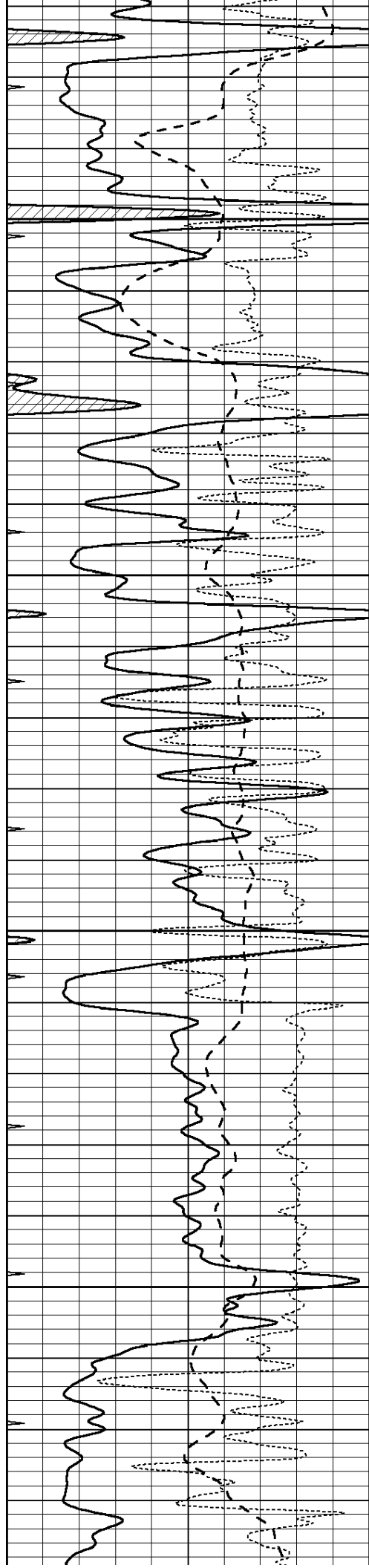
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4800



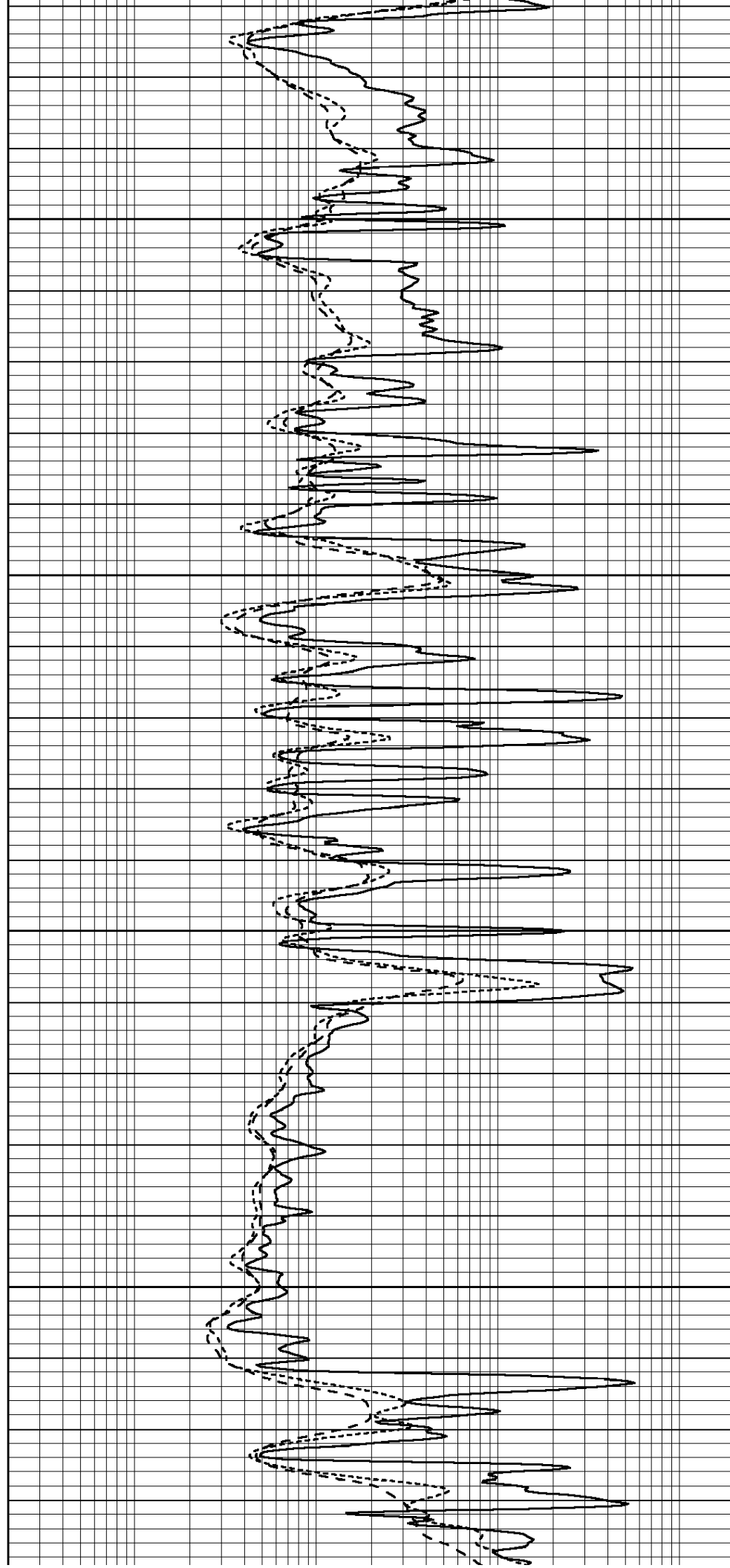


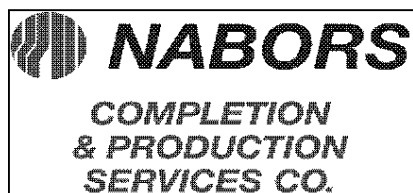
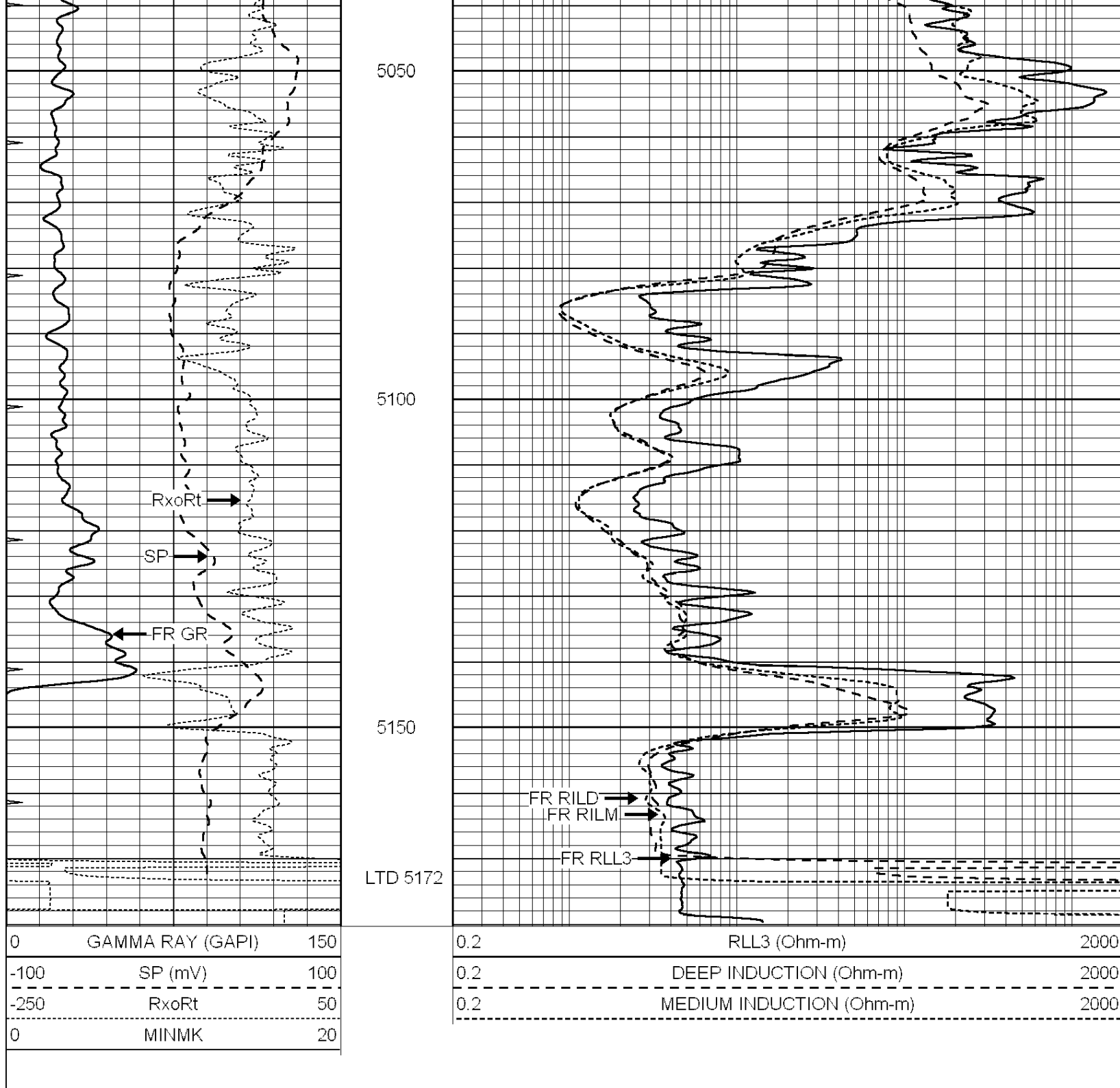
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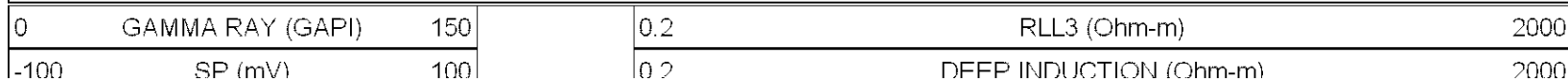
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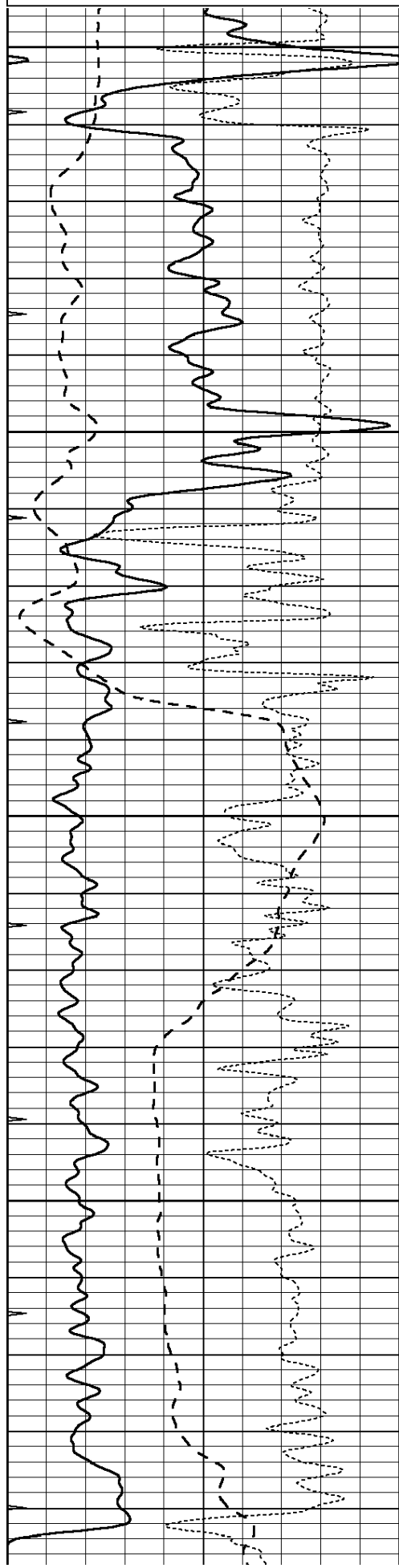
REPEAT SECTION

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 Dataset Pathname: pass2.1
 Presentation Format: dil
 Dataset Creation: Sat Feb 23 20:42:33 2013 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240



-250	RxoRt	50
0	MINMK	20

0.2	MEDIUM INDUCTION (Ohm-m)	2000
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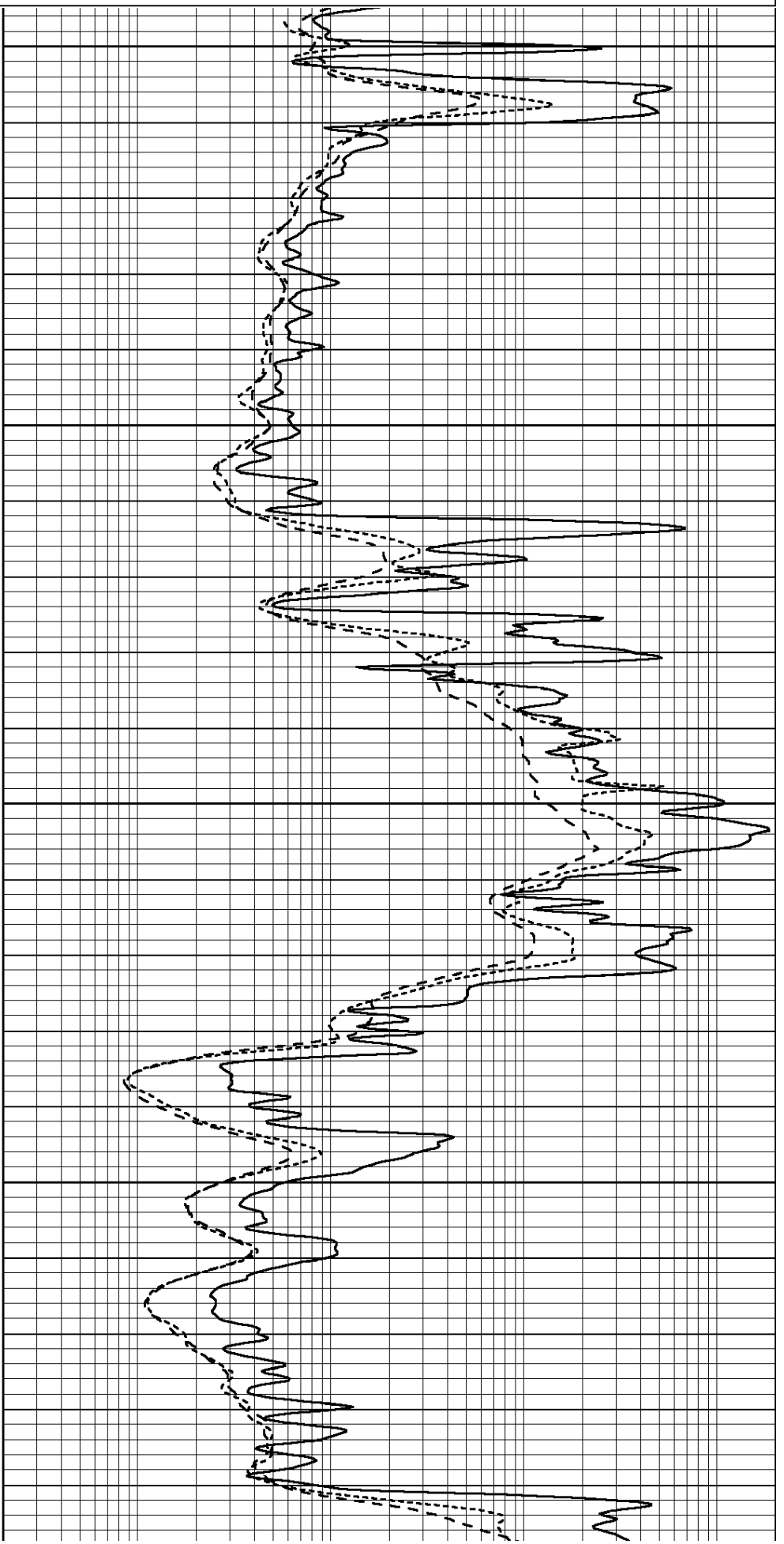


4950

5000

5050

5100



Master Calibration

	Density		Far Detector		Near Detector	
Magnesium	1.710	g/cc	1205.77		610.74	cps
Aluminum	2.590	g/cc	271.21		419.72	cps
Spine Angle = 75.89			Density/Spine Ratio = 0.572			
	Size		Reading			
Small Ring	6.90	in	4.69		V	
Large Ring	14.00	in	6.52		V	

Compensated Neutron Calibration Report

Serial Number: NEU_4I
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 Feb 08 10:03:25 2013

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 2.4000 GAPI/cps