



NABORS

**COMPLETION
& PRODUCTION
SERVICES CO.**

**DUAL
INDUCTION
LOG**

Company	RITCHIE EXPLORATION, INC.		
Well	#2 POTOSI		
Field	THUNDER		
County	FORD	State	KANSAS
Location:	API # : 15-057-20856		Other Services
	1662' FNL & 335' FWL		CDL/CNL
	SEC 13 TWP 27S RGE 24W		Elevation
Permanent Datum	GROUND LEVEL	Elevation	2440
Log Measured From	KELLY BUSHING 11' A.G.L.	K.B. 2451	D.F.
Drilling Measured From	KELLY BUSHING	G.L. 2440	
Date	11-17-12		
Run Number	ONE		
Depth Driller	5100		
Depth Logger	5105		
Bottom Logged Interval	5103		
Top Log Interval	00		
Casing Driller	350		
Casing Logger	350		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.3 / 66		
pH / Fluid Loss	9.0 / 8.8		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	0.75 @ 64F		
Rinf @ Meas. Temp	0.56 @ 64F		
Rinc @ Meas. Temp	0.90 @ 64F		
Source of Rinf / Rinc	MEASURED		
Rim @ BHT	.380 @ 126F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	1:00 A.M.		
Maximum Recorded Temperature	126F		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	RUPP		
Witnessed By	ADAM ELDANI		

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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.
THANK YOU FOR YOUR BUSINESS
DIRECTIONS: WRIGHT, S TO K-#400, 1 1.2S, E & S INTO.



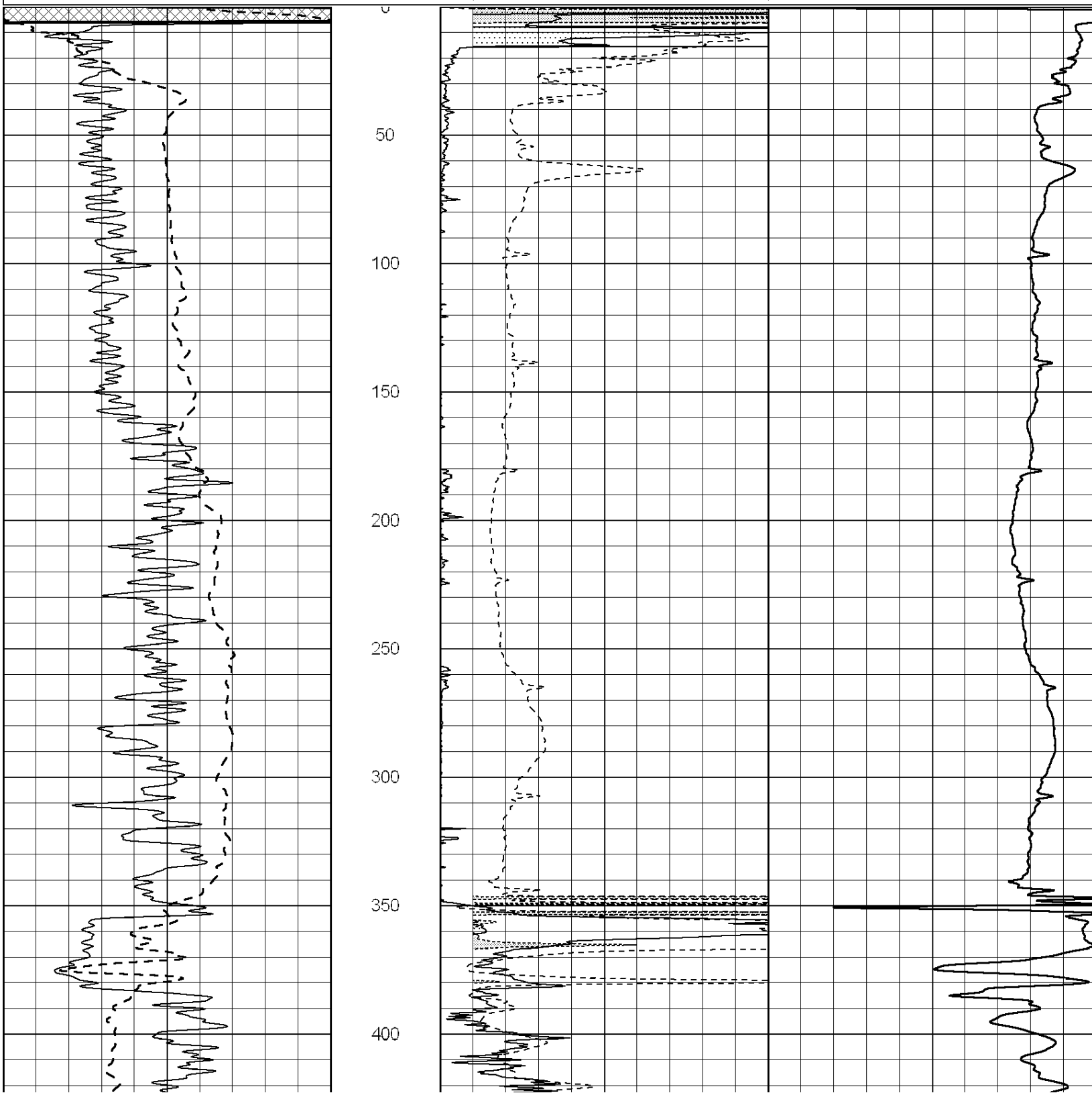
NABORS

**COMPLETION
& PRODUCTION**

MAIN SECTION

Database File: 009950ddn.db
 Dataset Pathname: pass3.1A
 Presentation Format: dil2
 Dataset Creation: Sun Nov 18 03:06:22 2012
 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

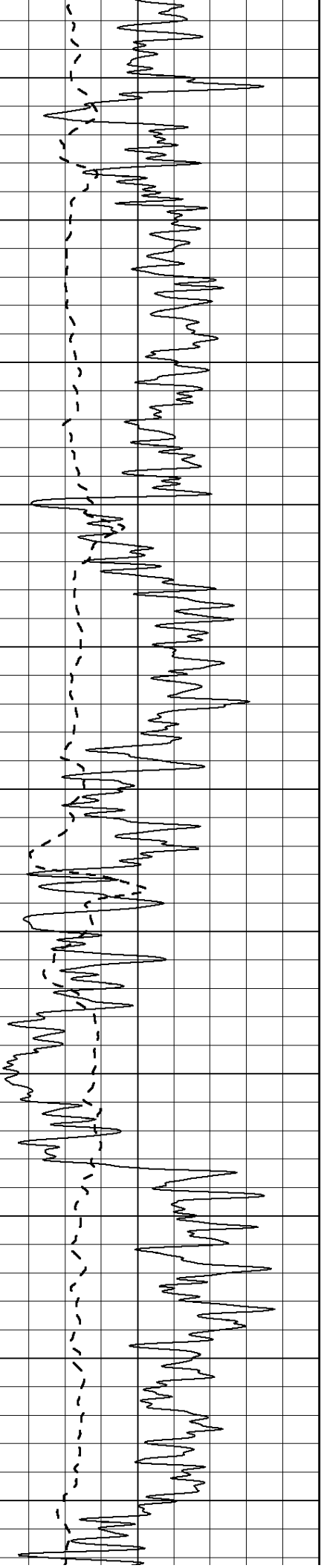
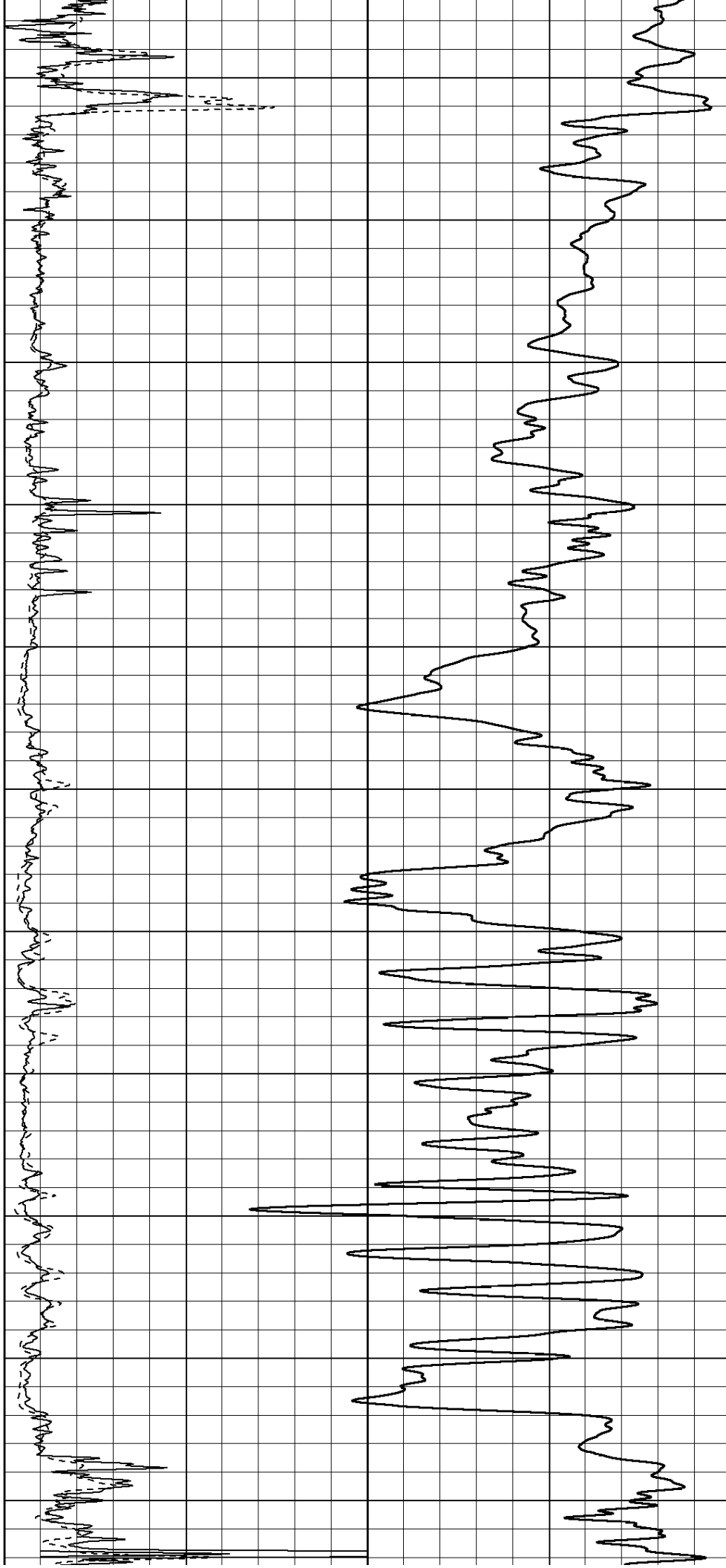
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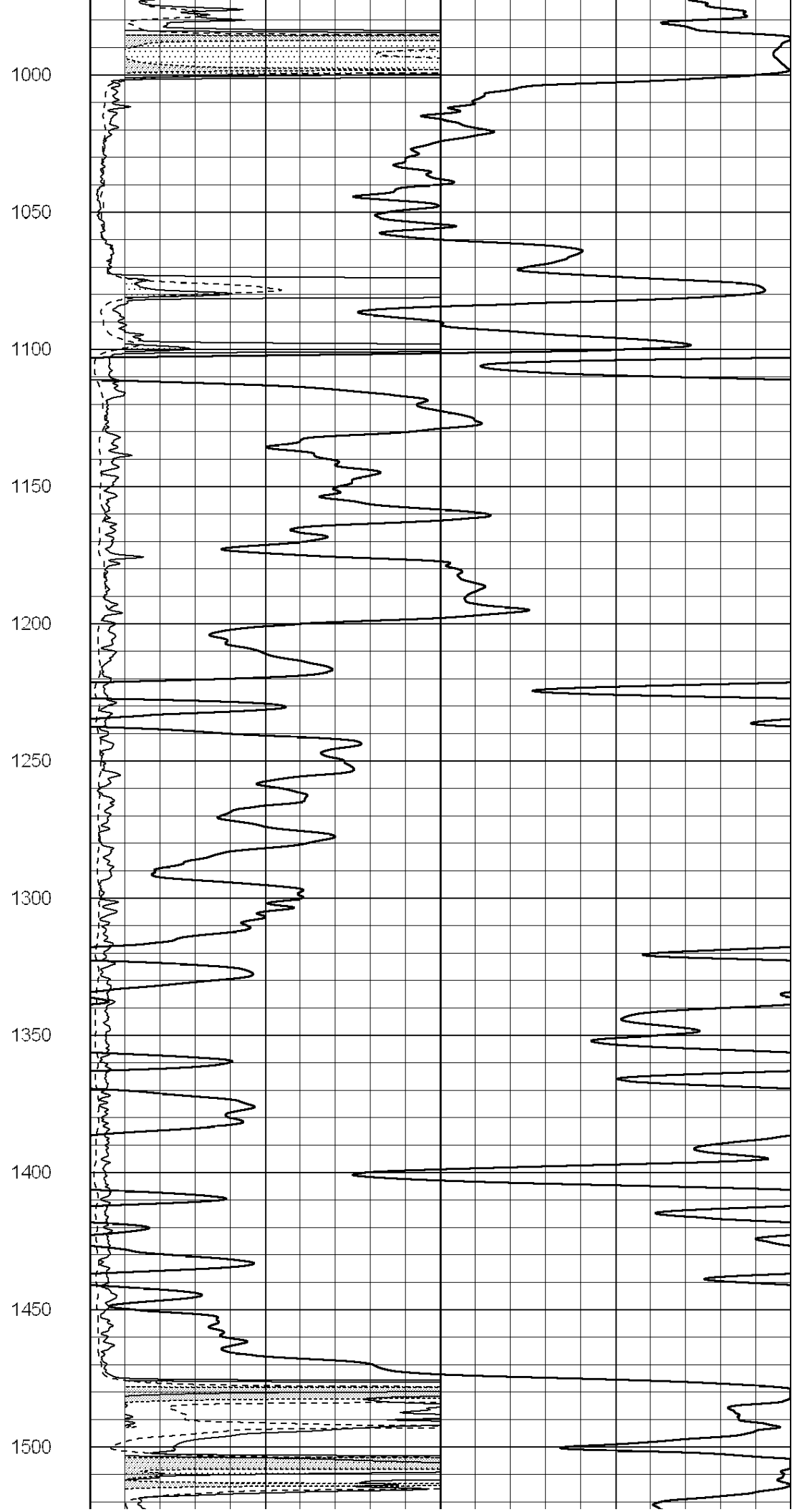
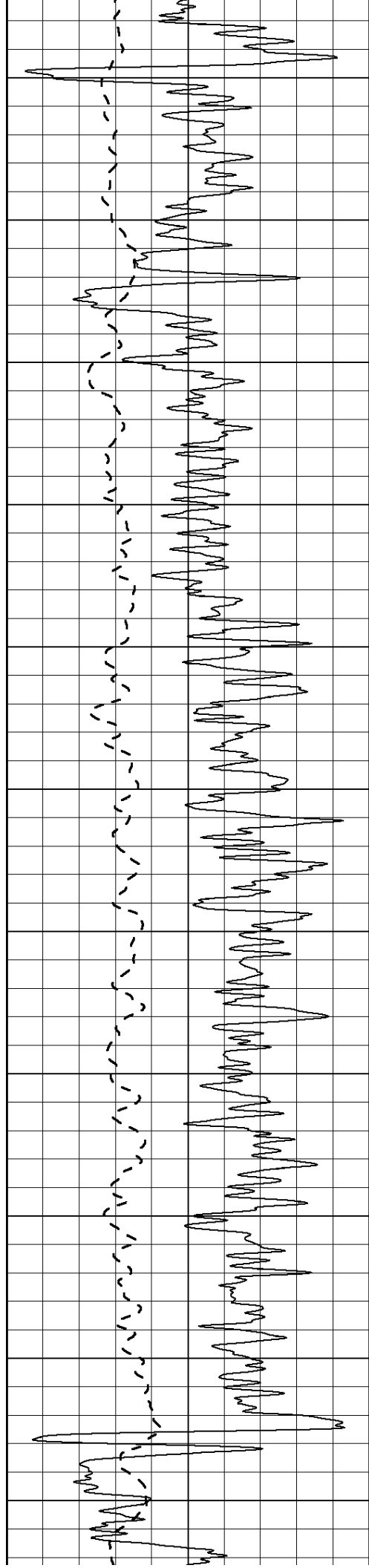
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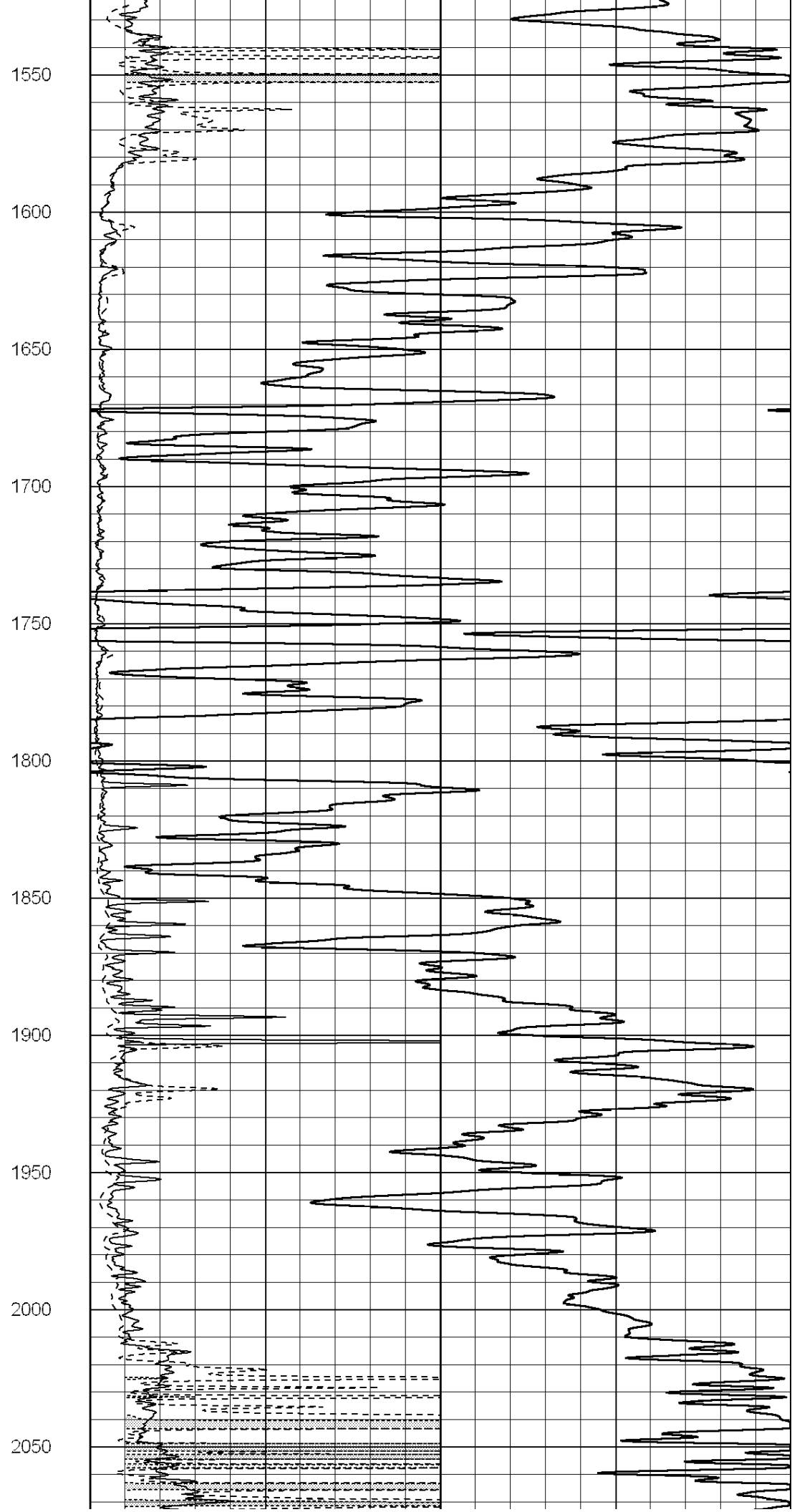
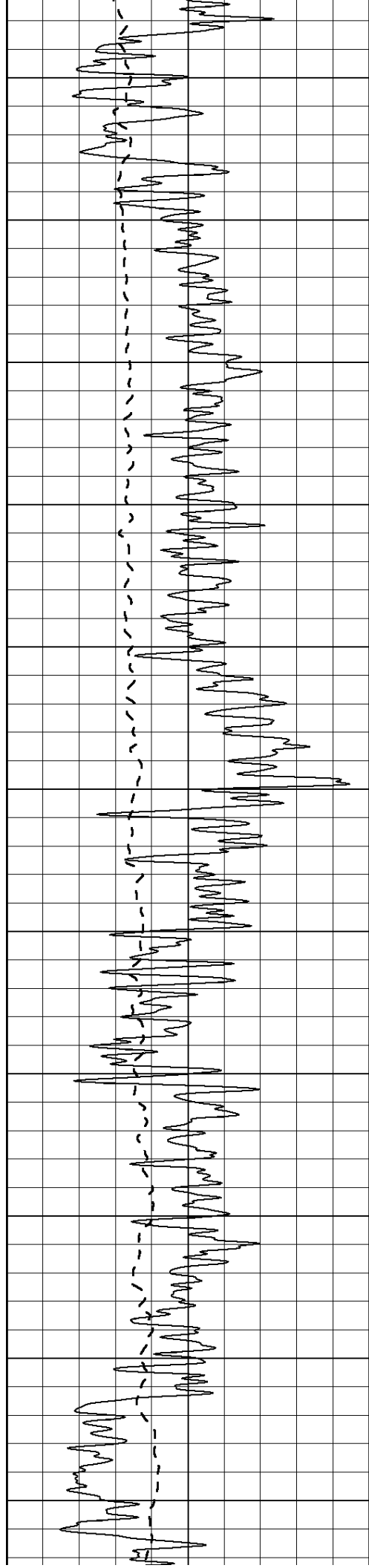
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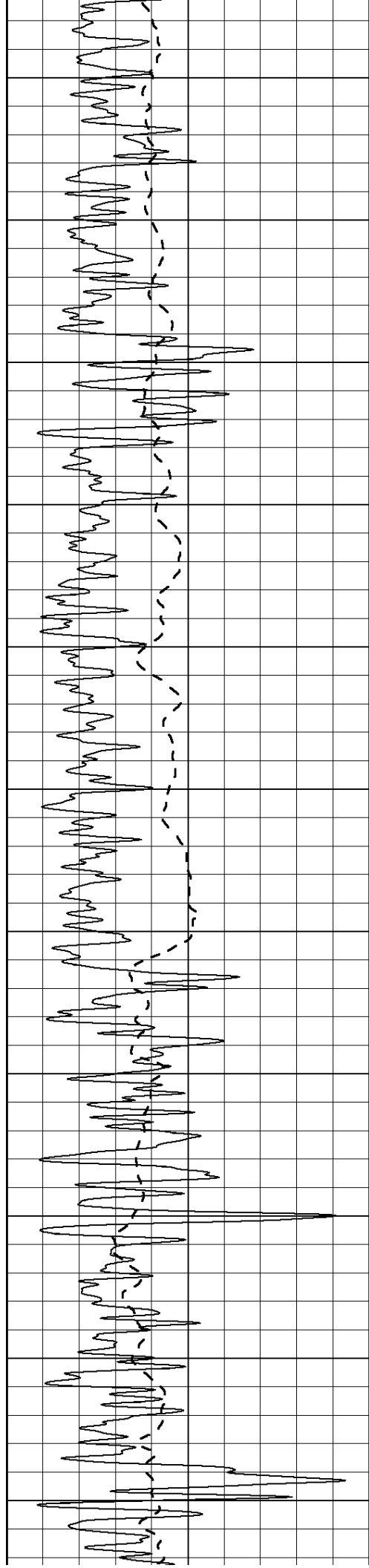
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950









2100

2150

2200

2250

2300

2350

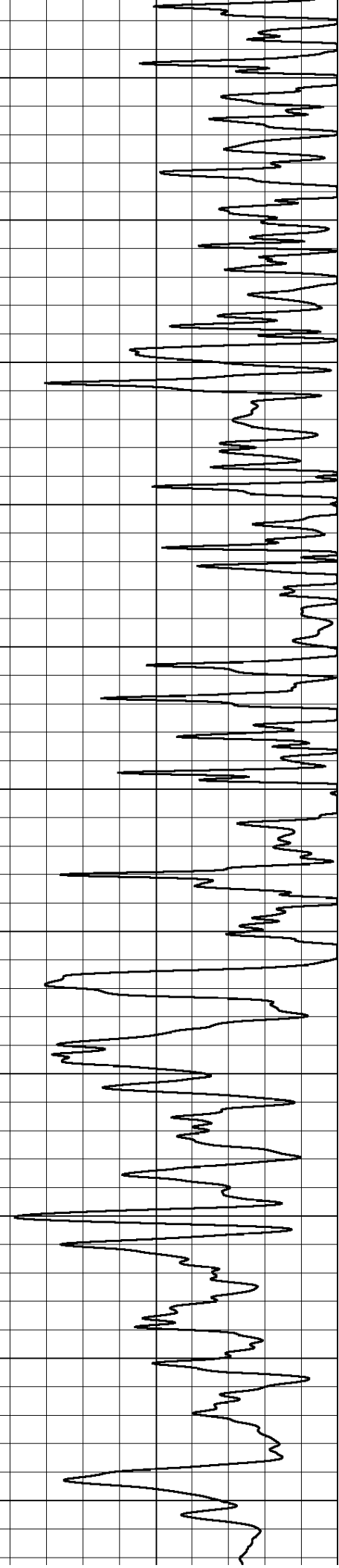
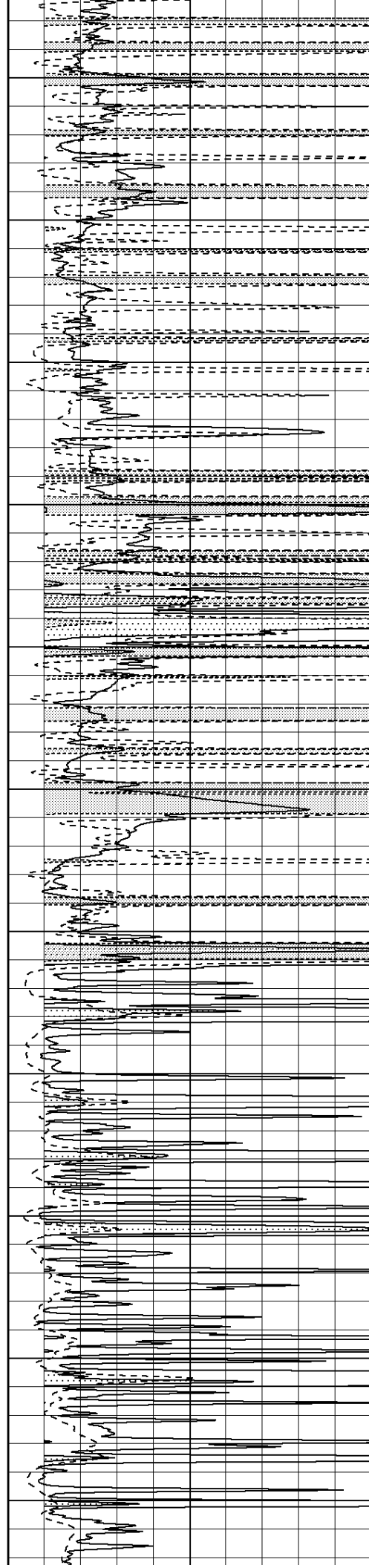
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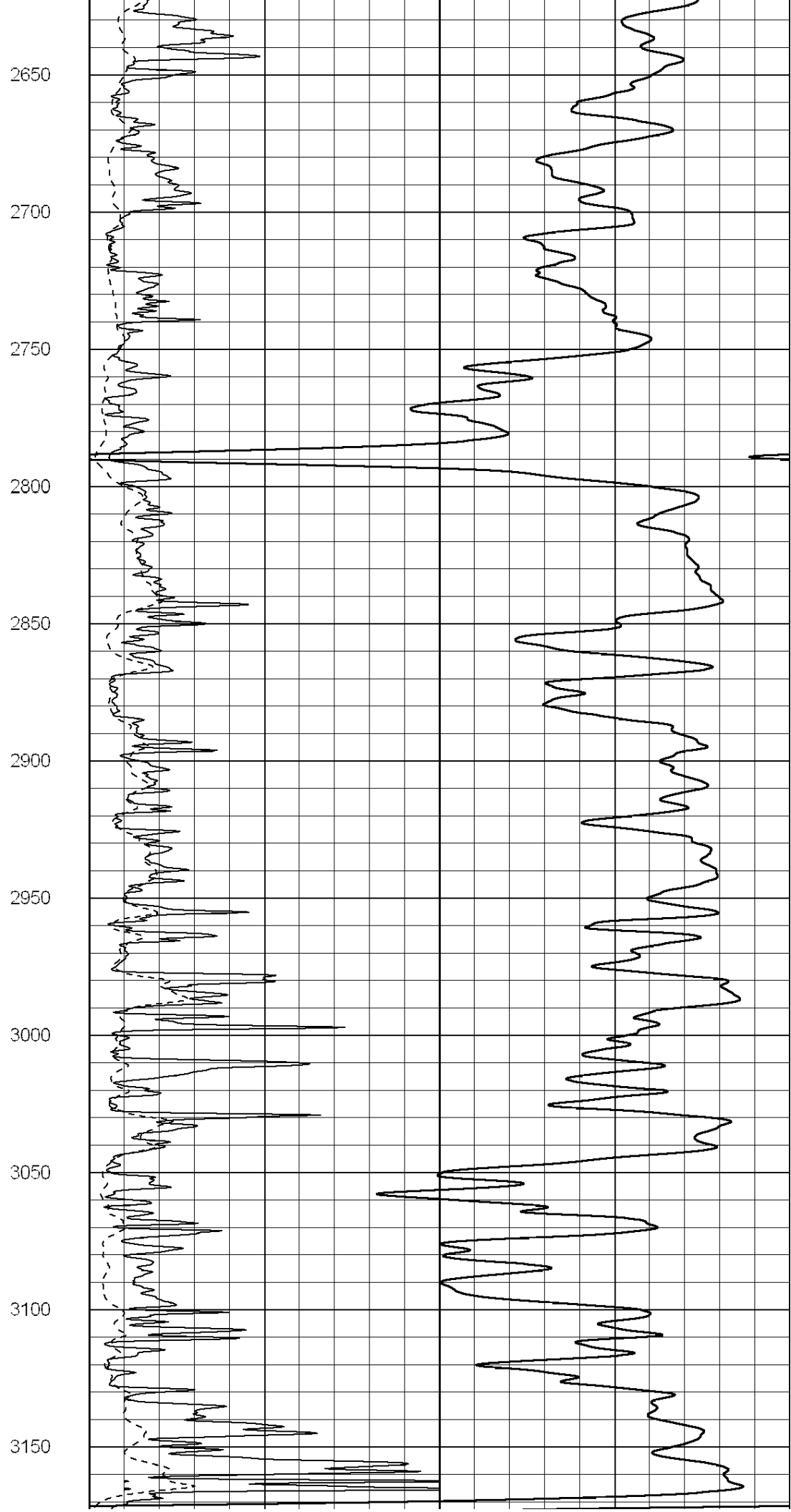
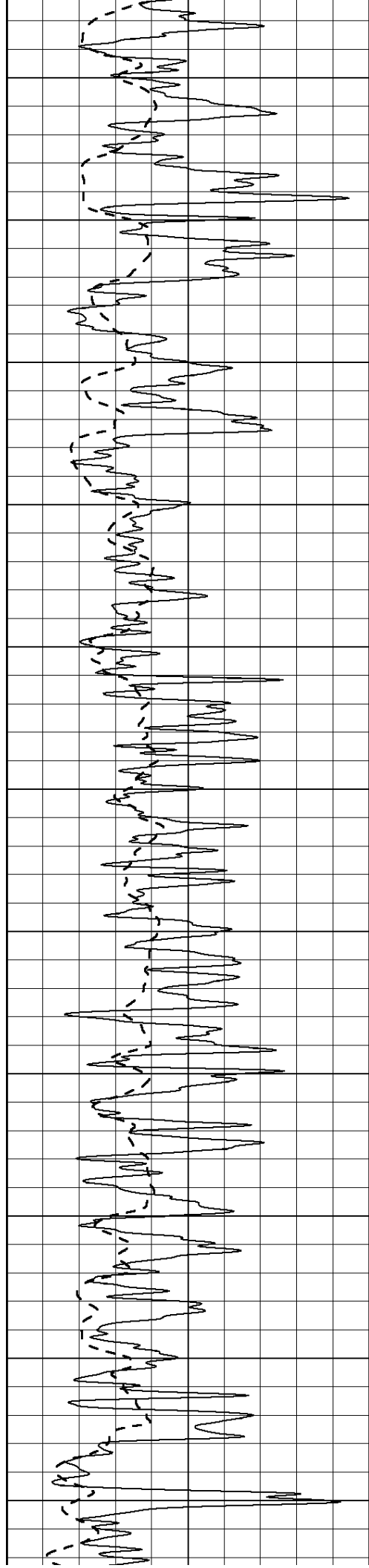
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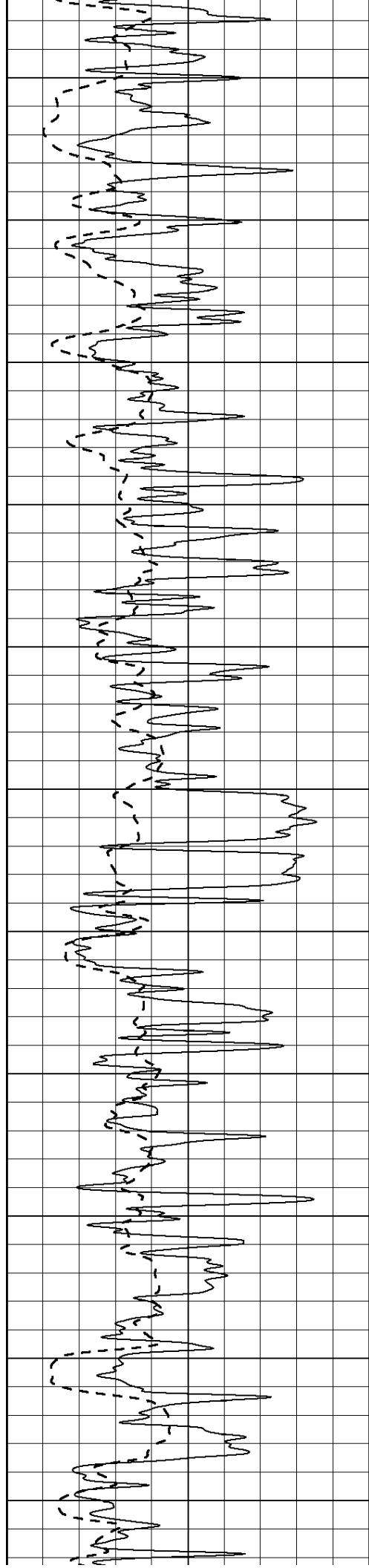
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2550

2600







3200

3250

3300

3350

3400

3450

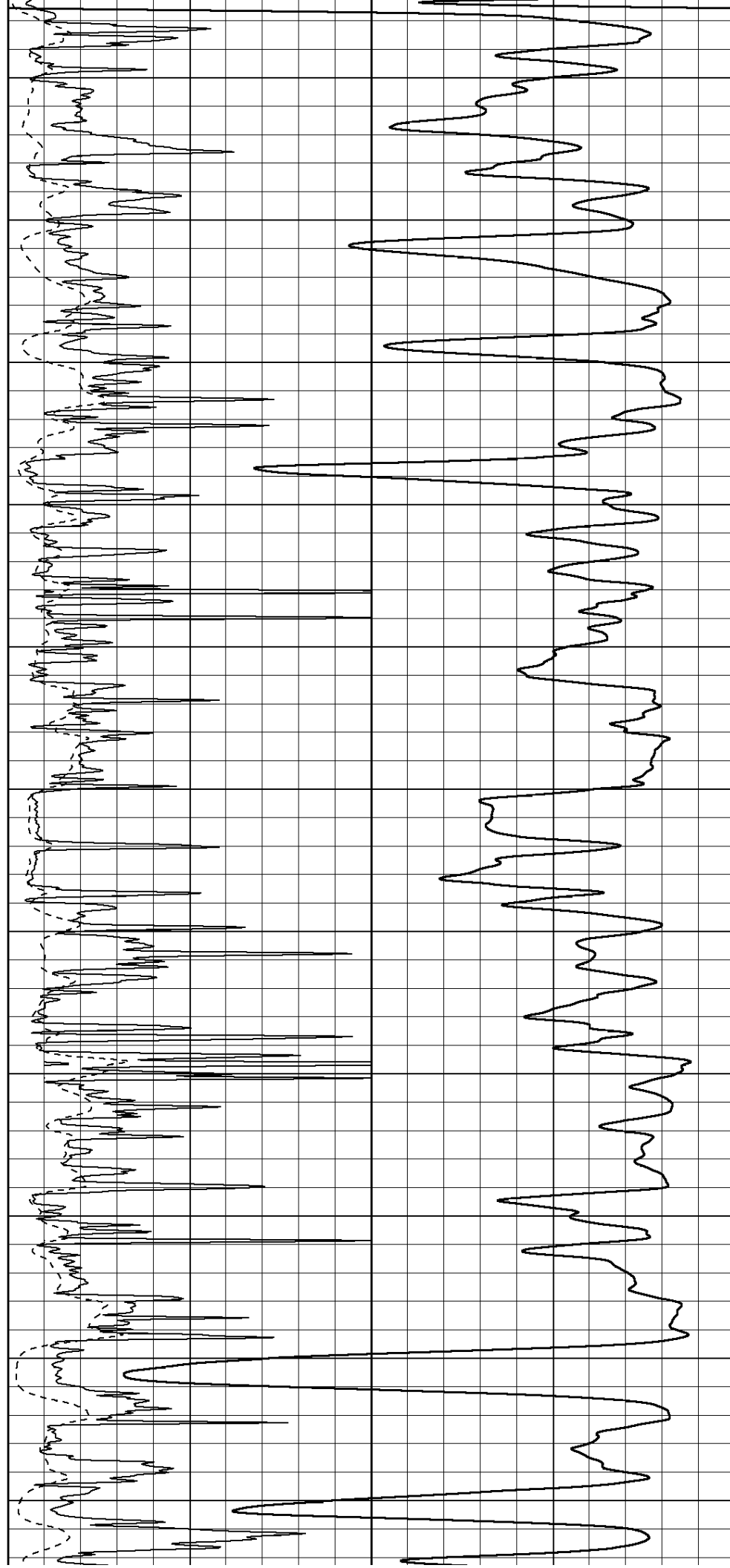
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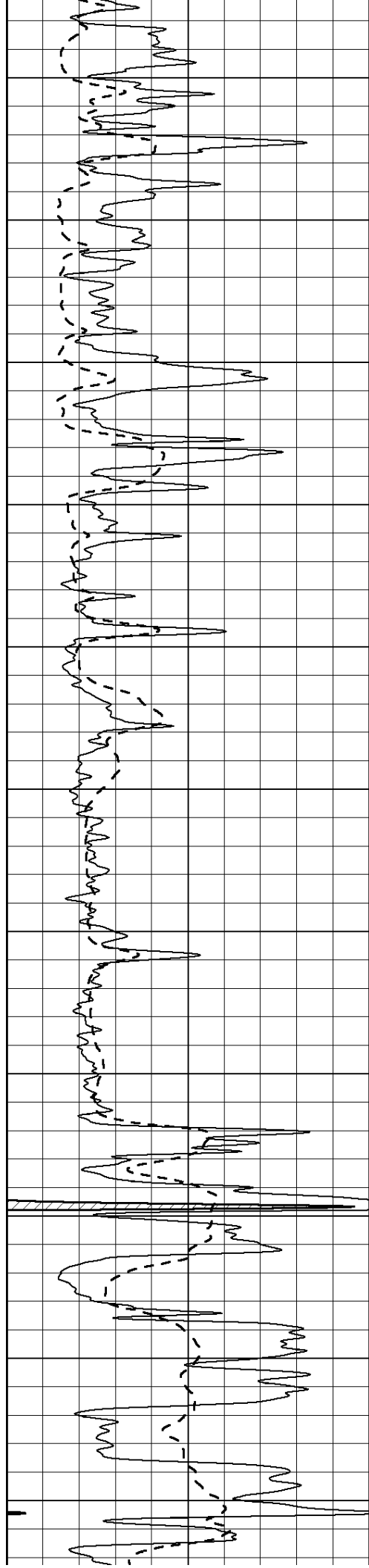
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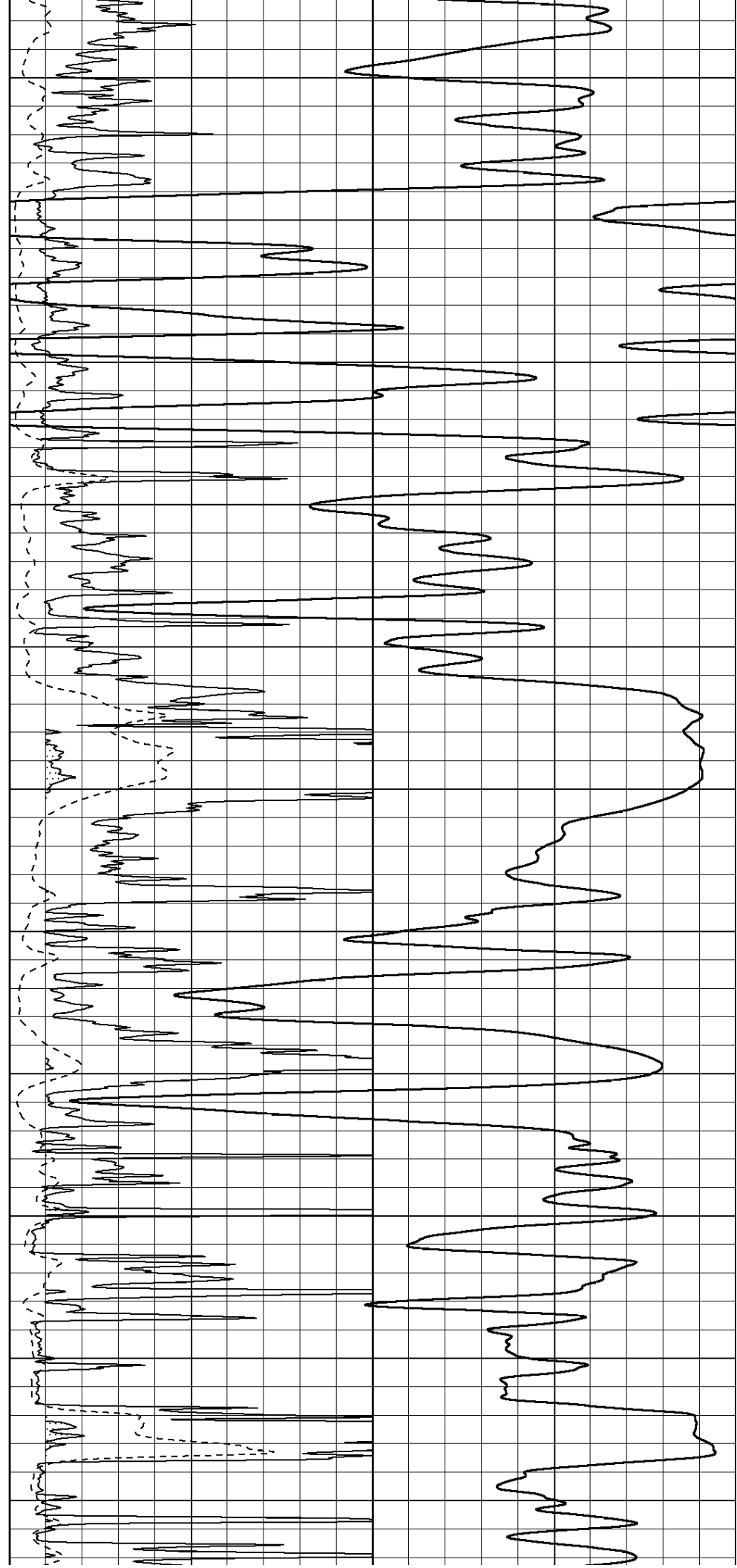
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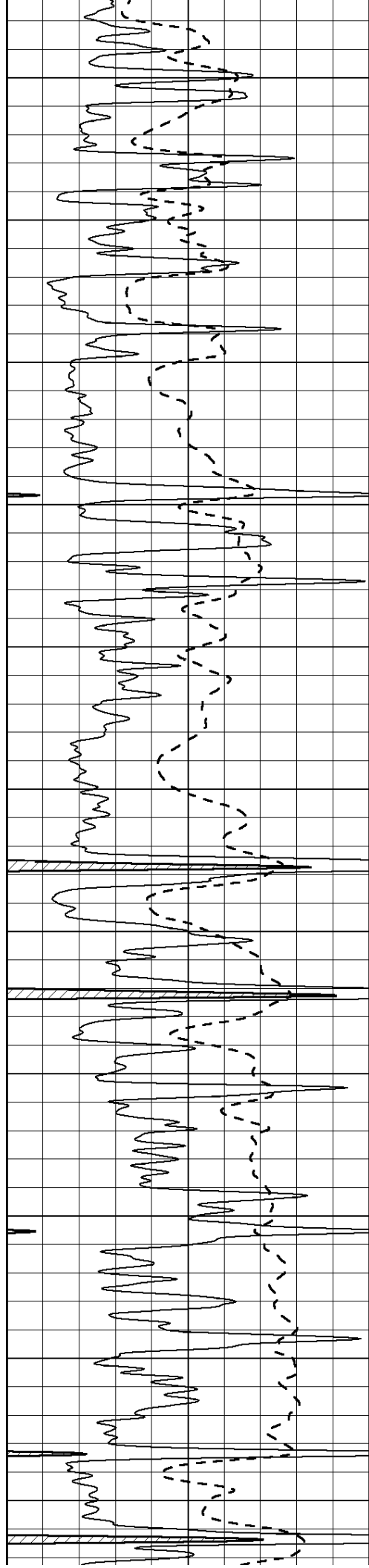
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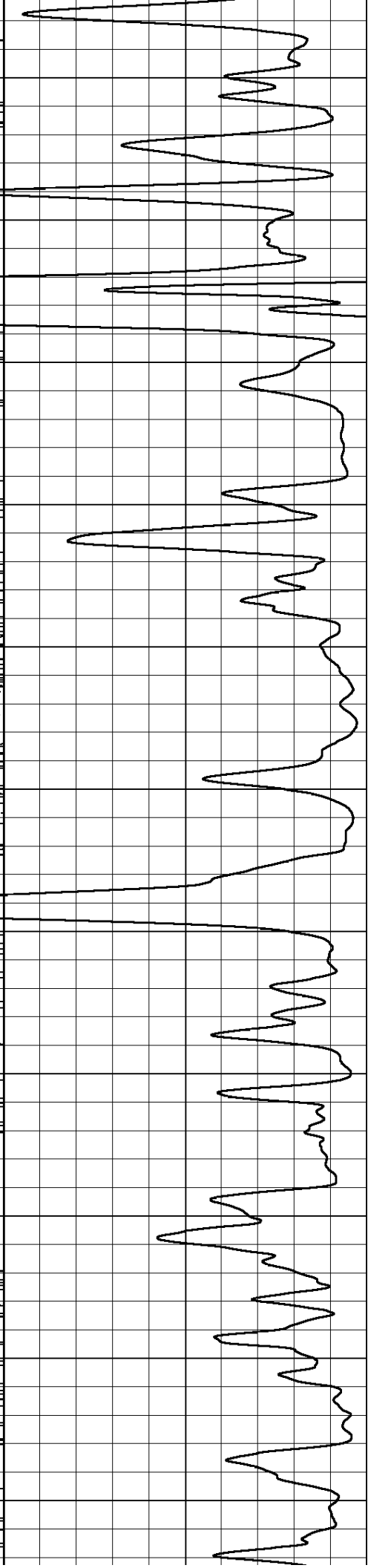
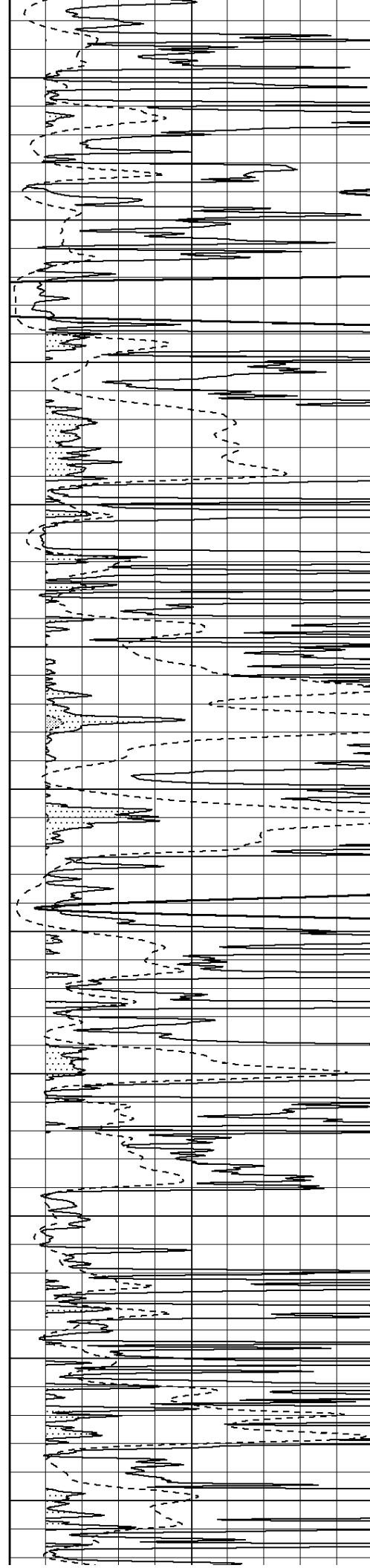
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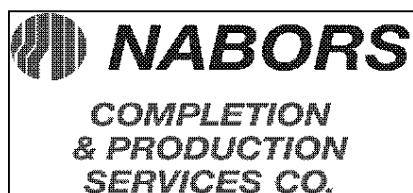
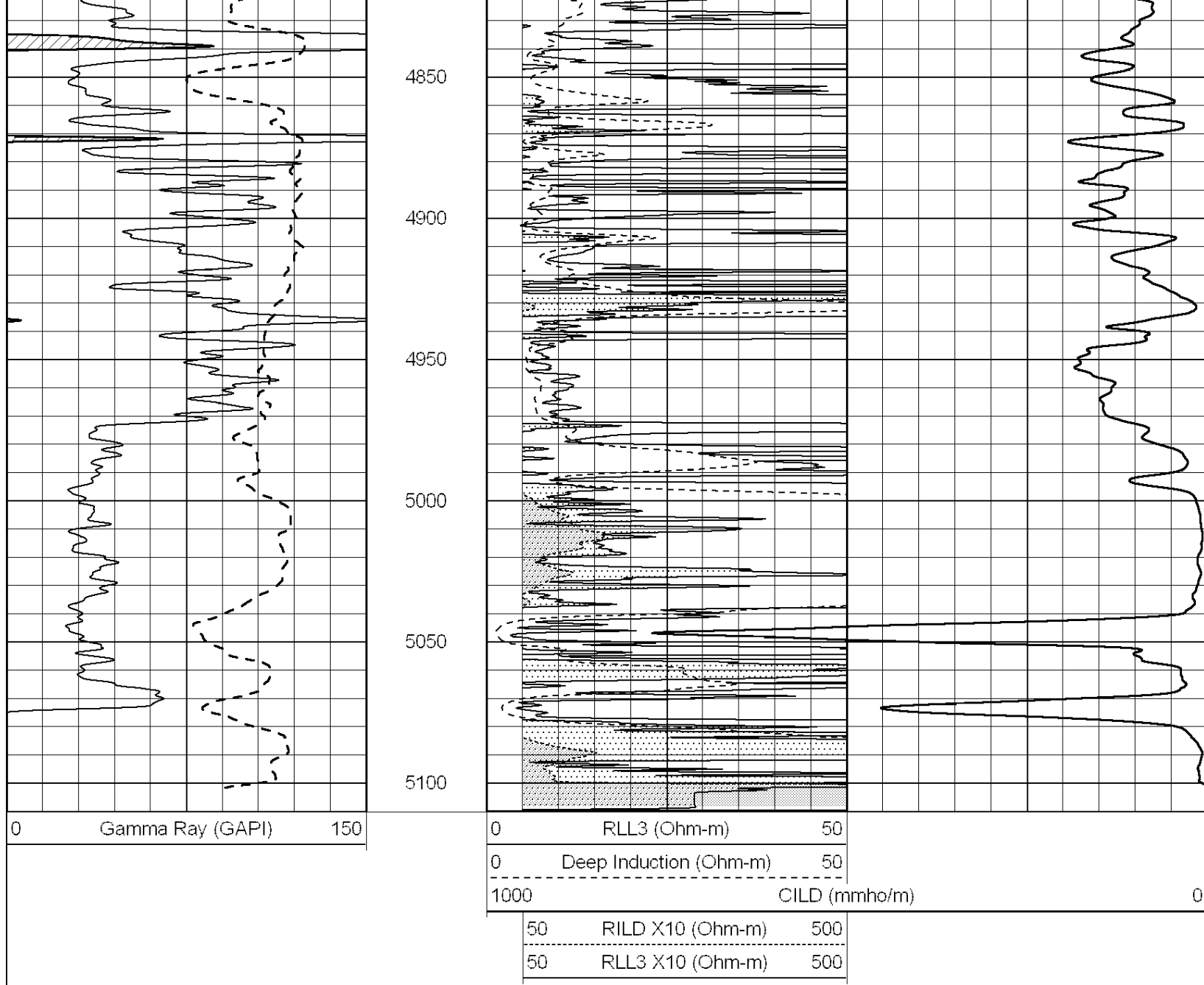
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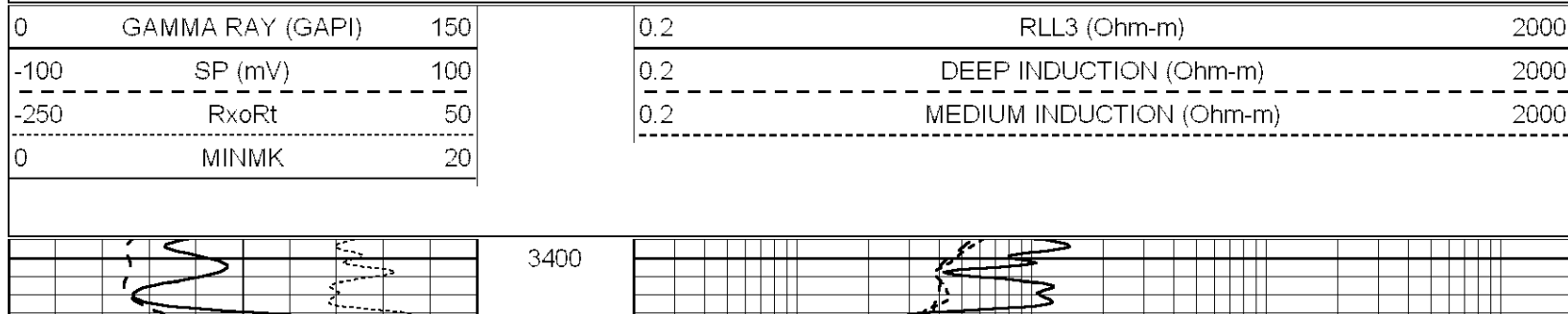
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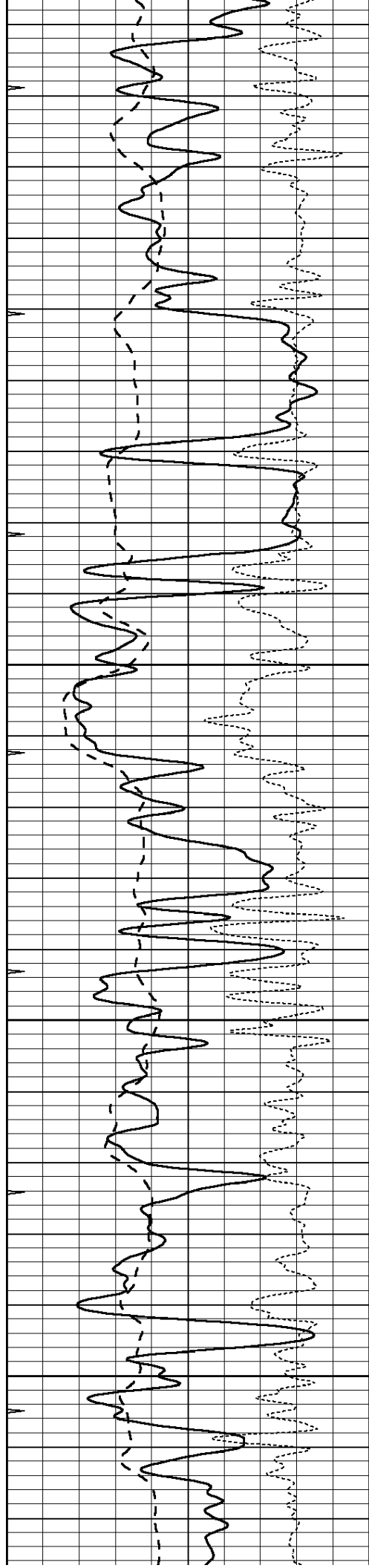




MAIN SECTION

Database File: 009950ddn.db
Dataset Pathname: pass3.1A
Presentation Format: dil
Dataset Creation: Sun Nov 18 03:06:22 2012
Charted by: Depth in Feet scaled 1:240



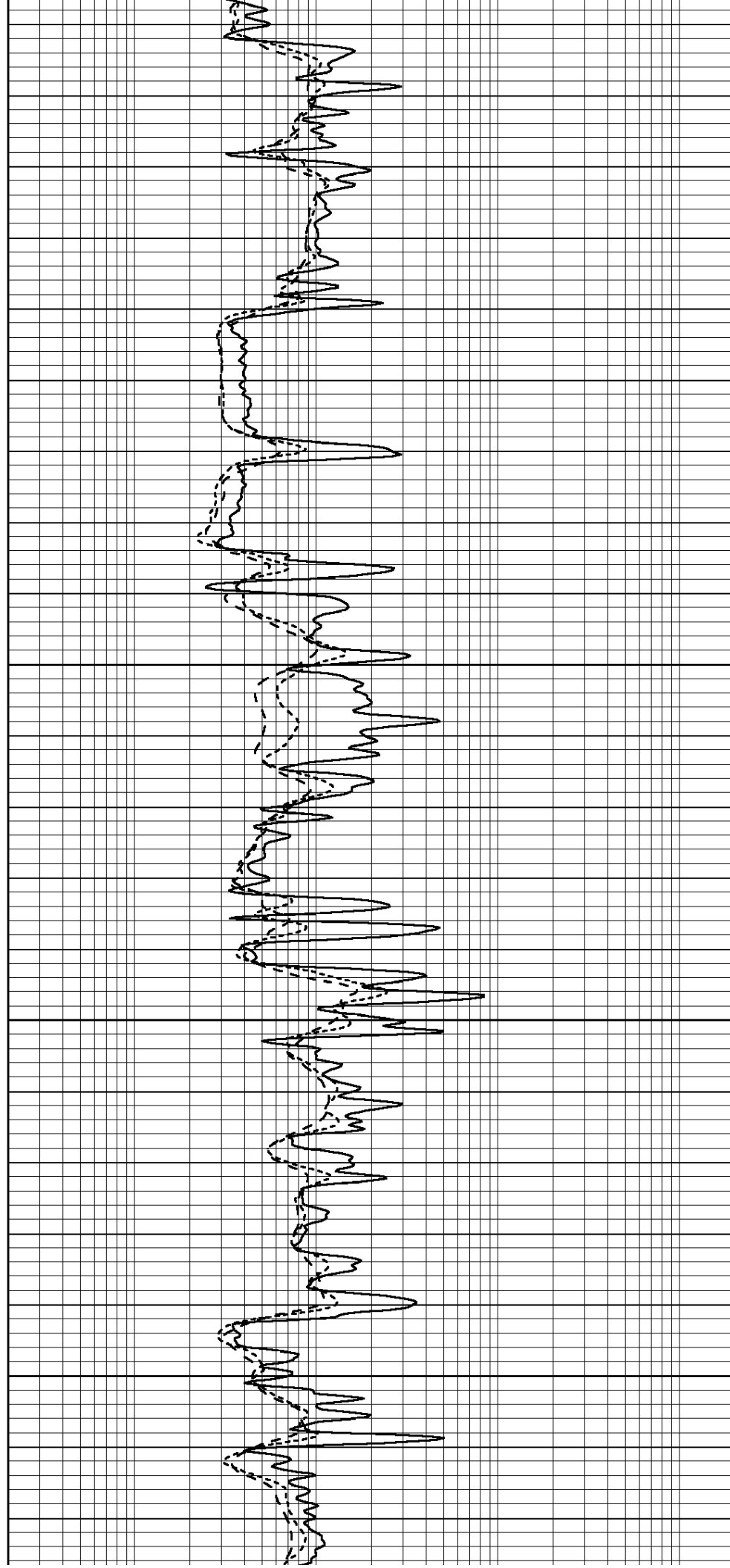


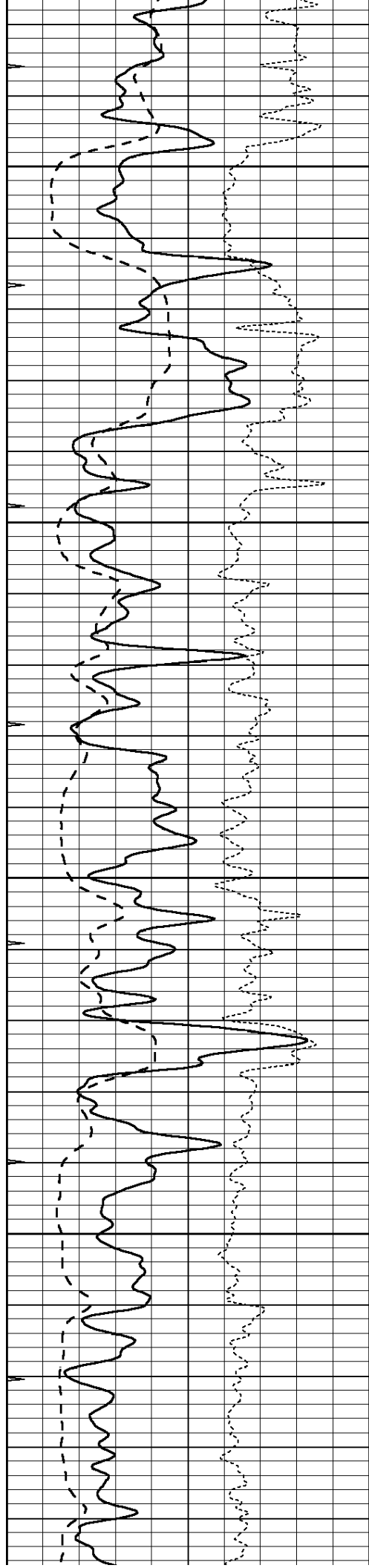
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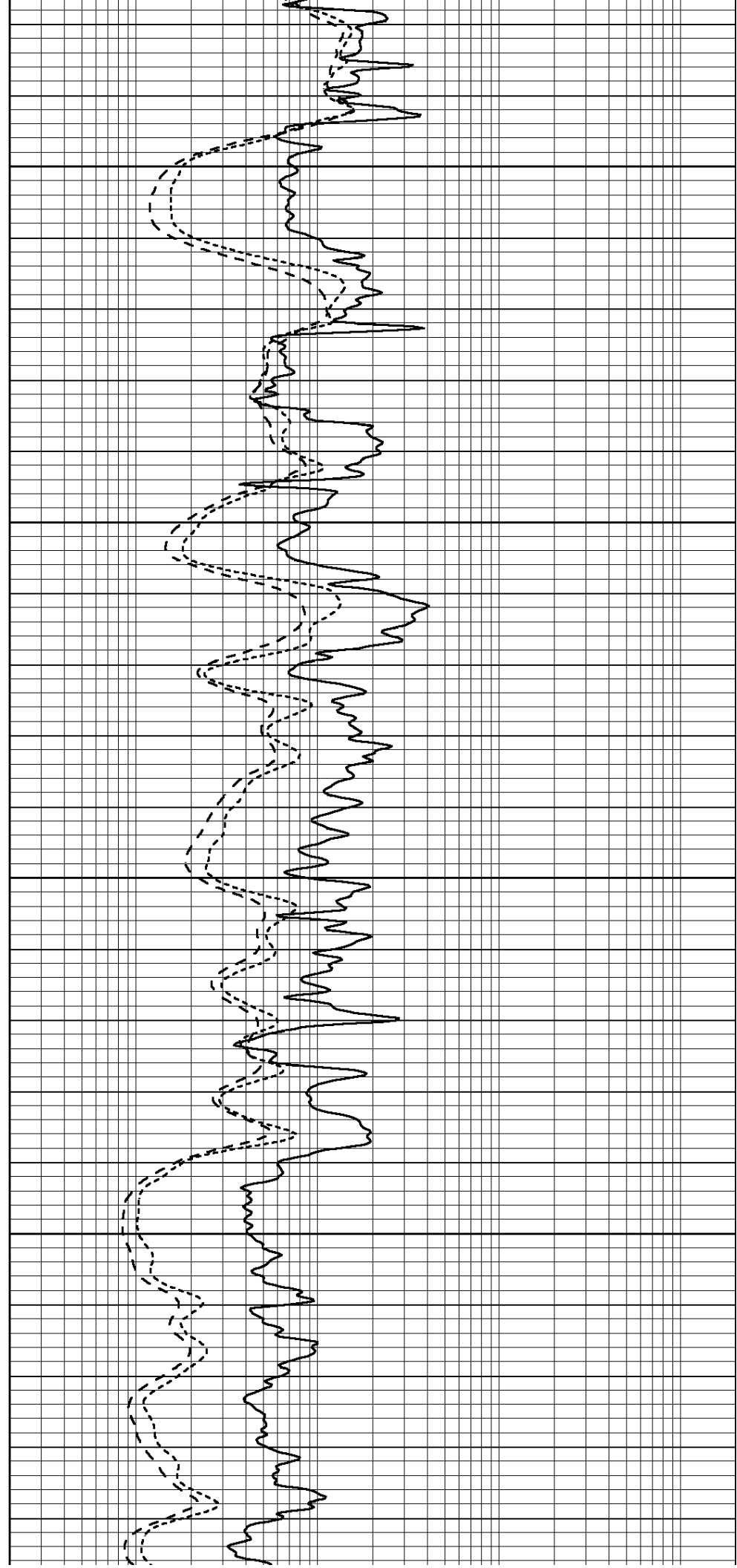


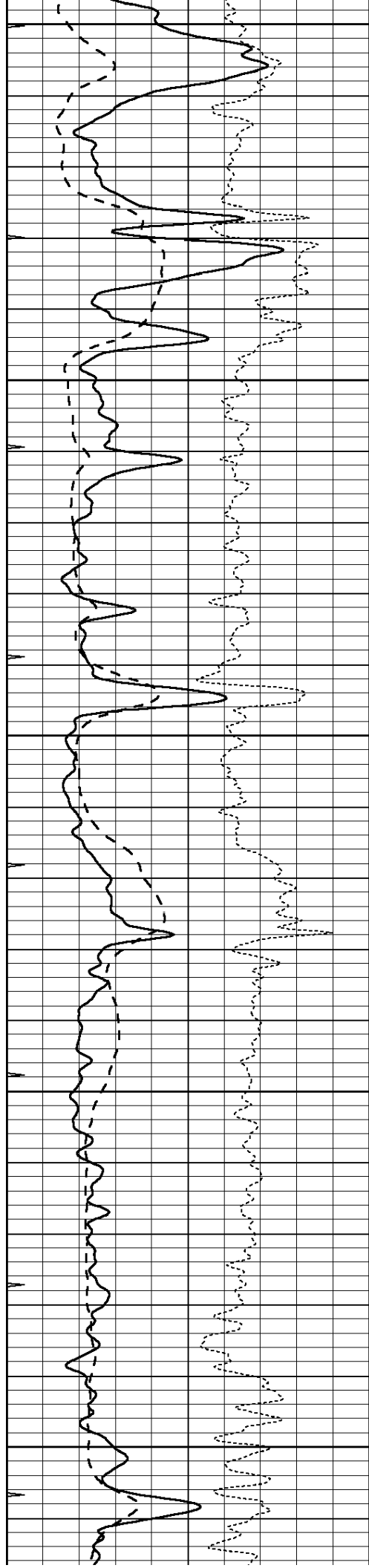
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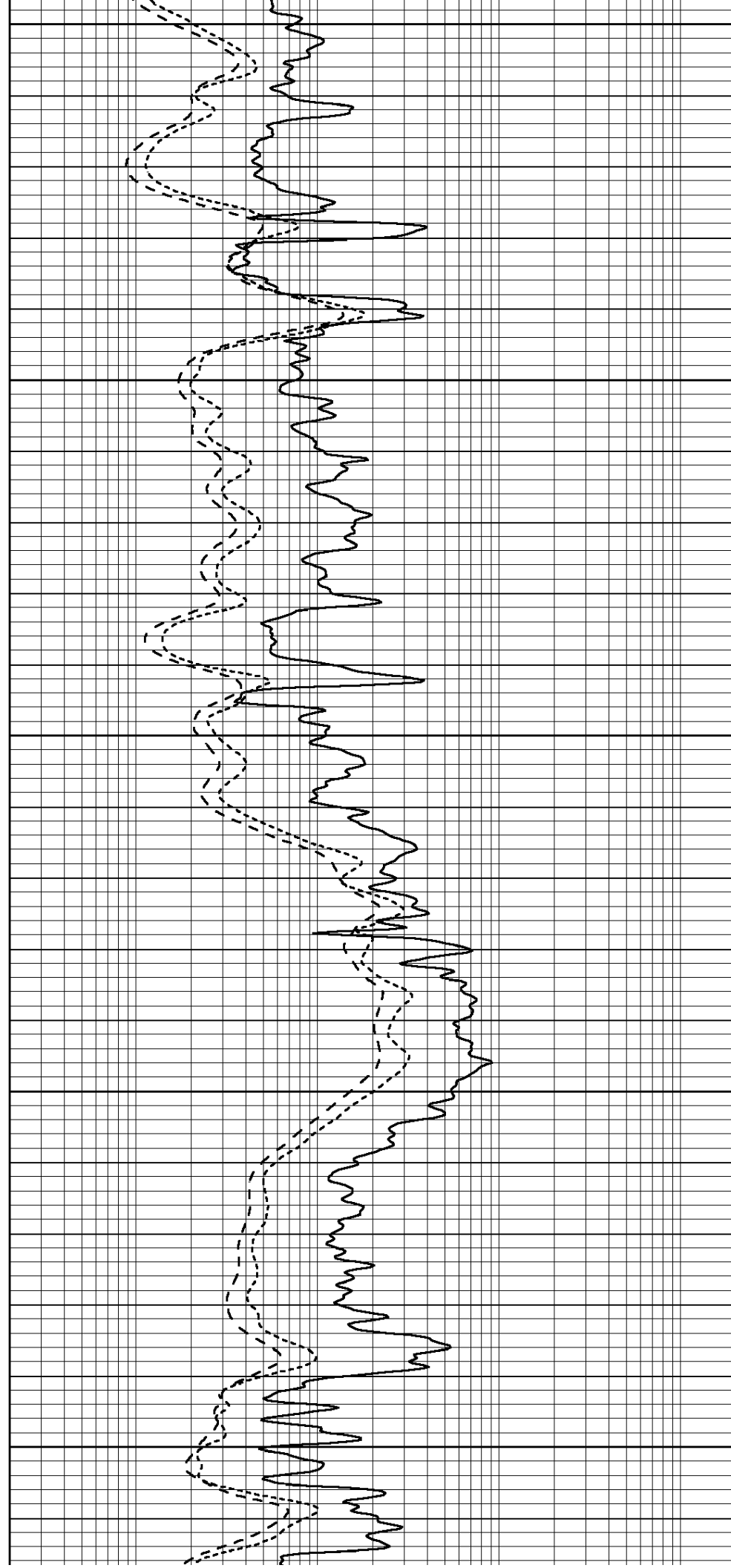
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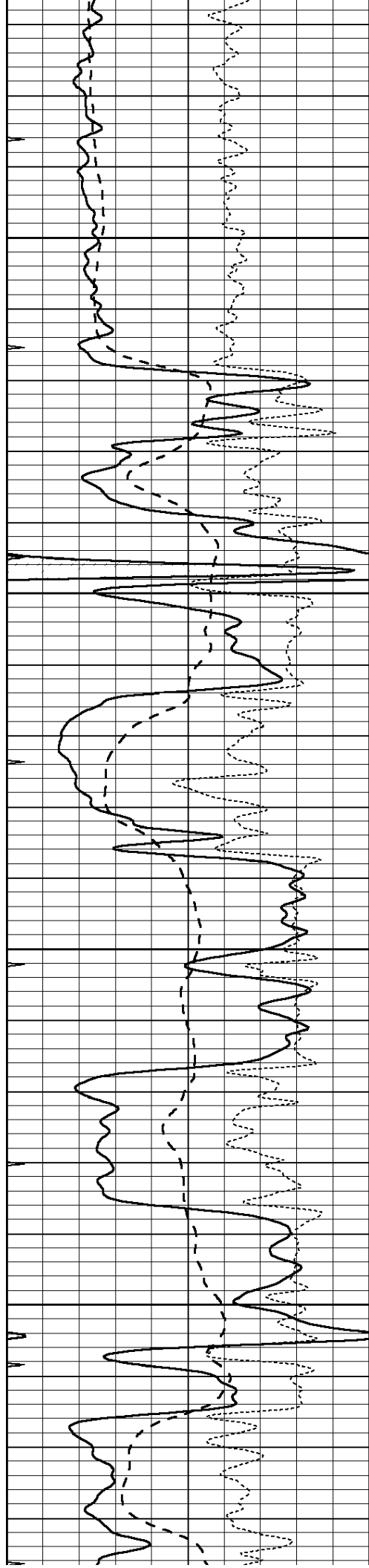
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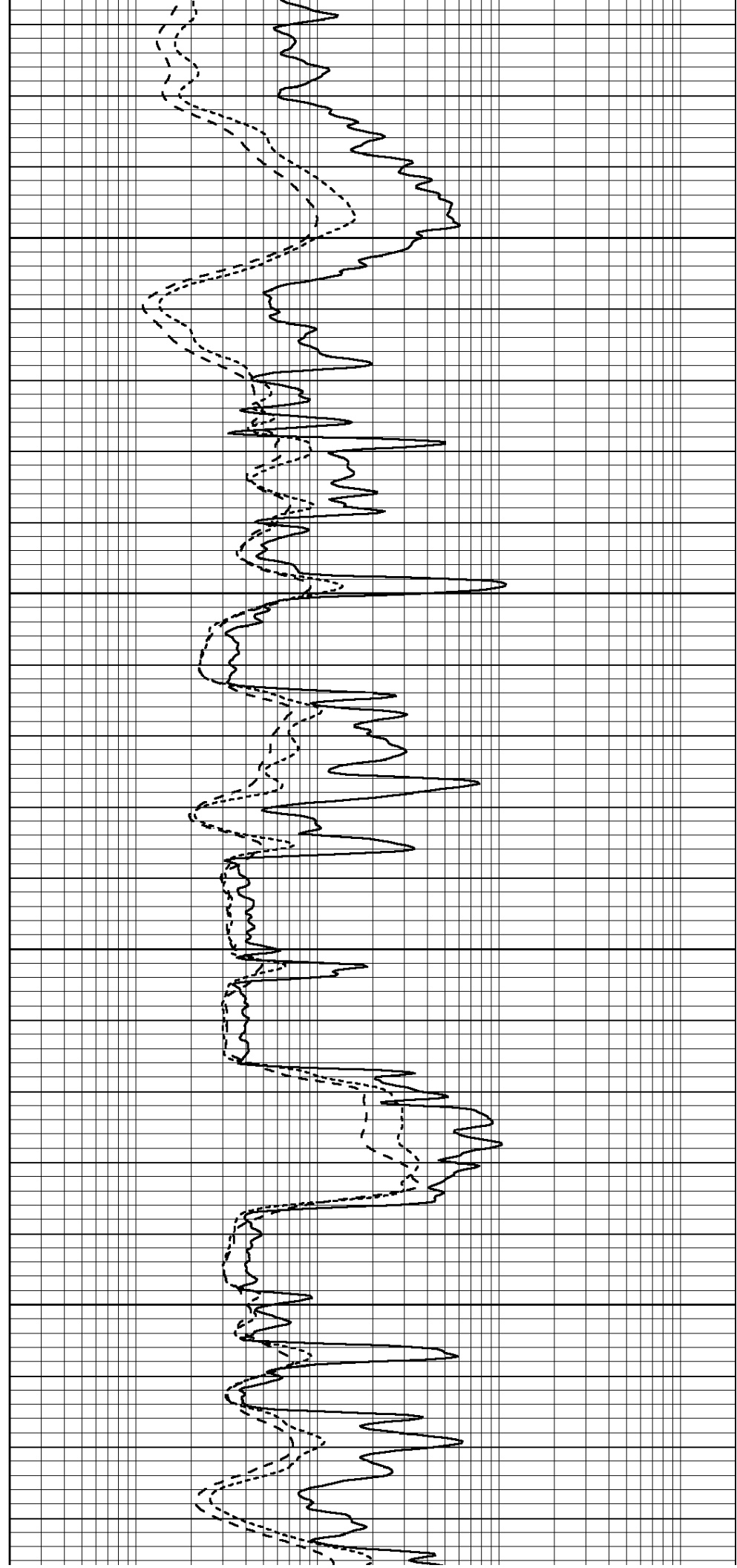


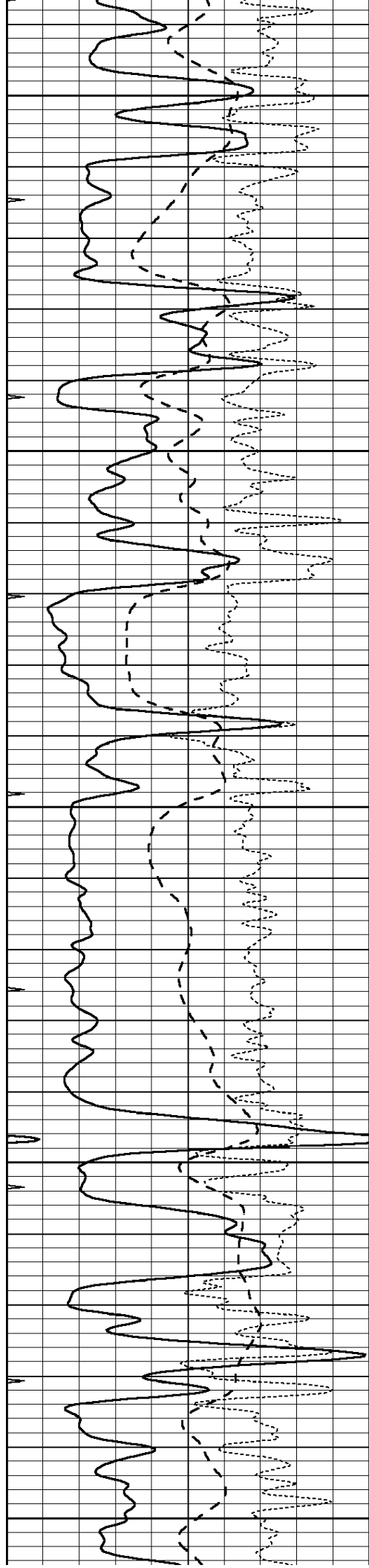
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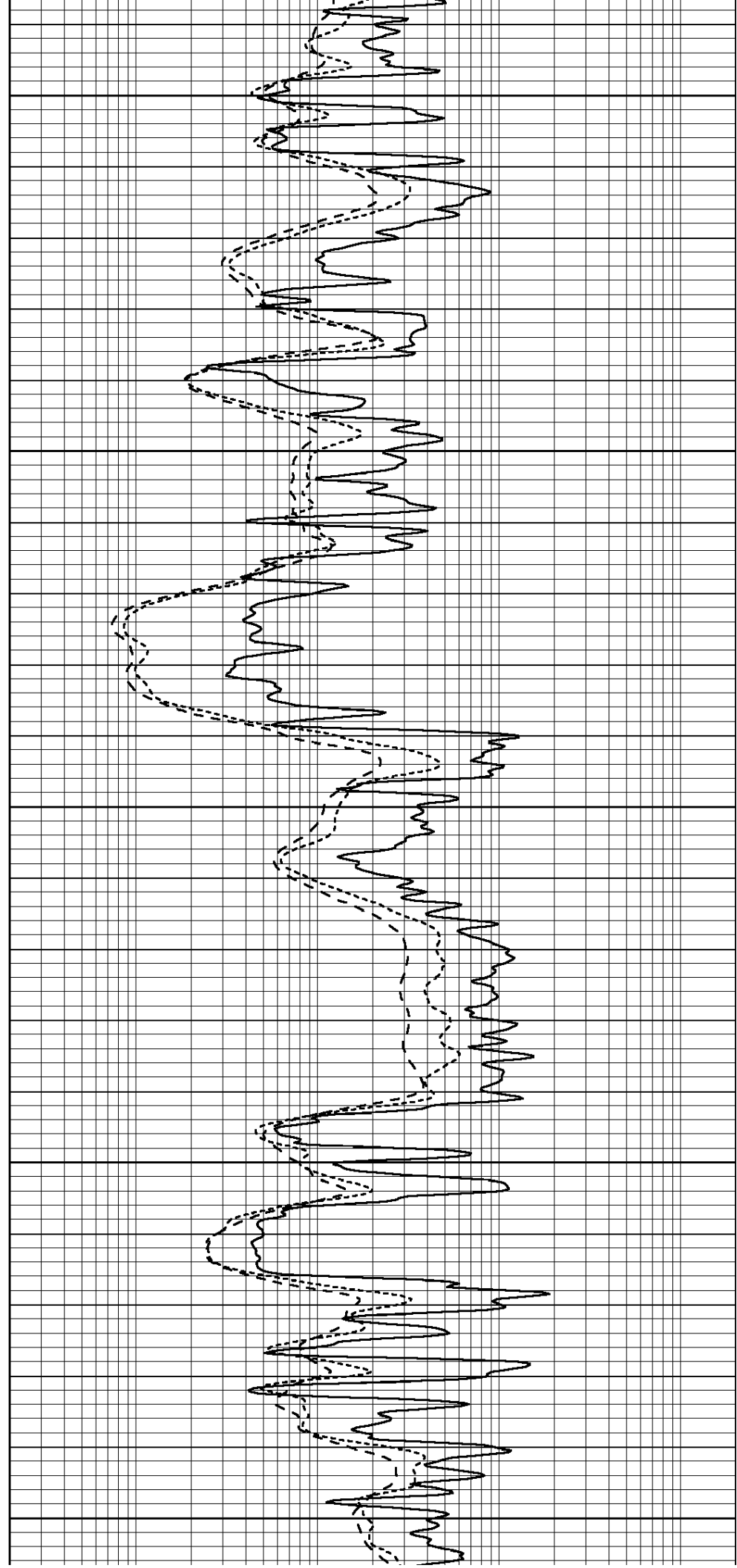
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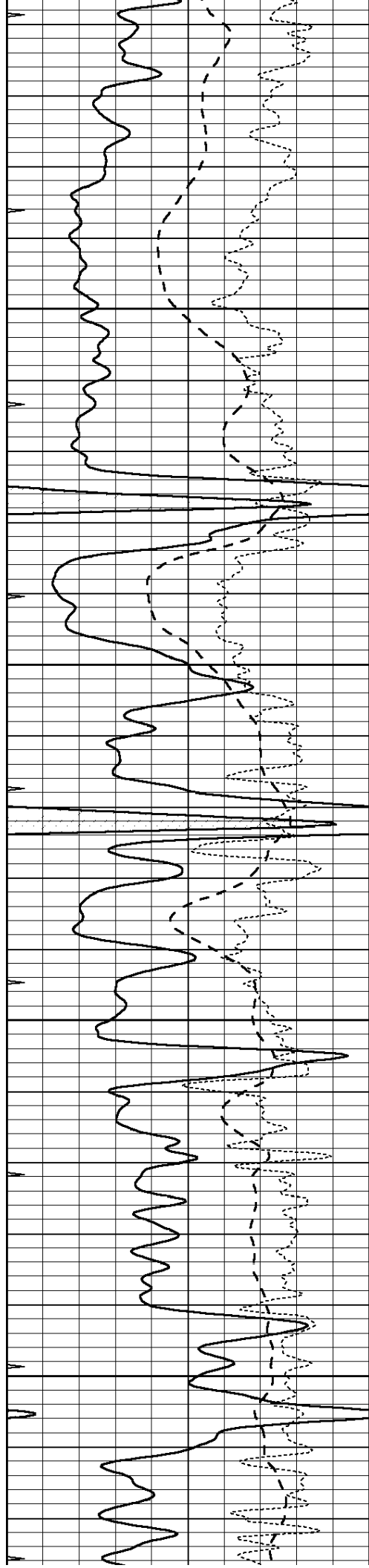
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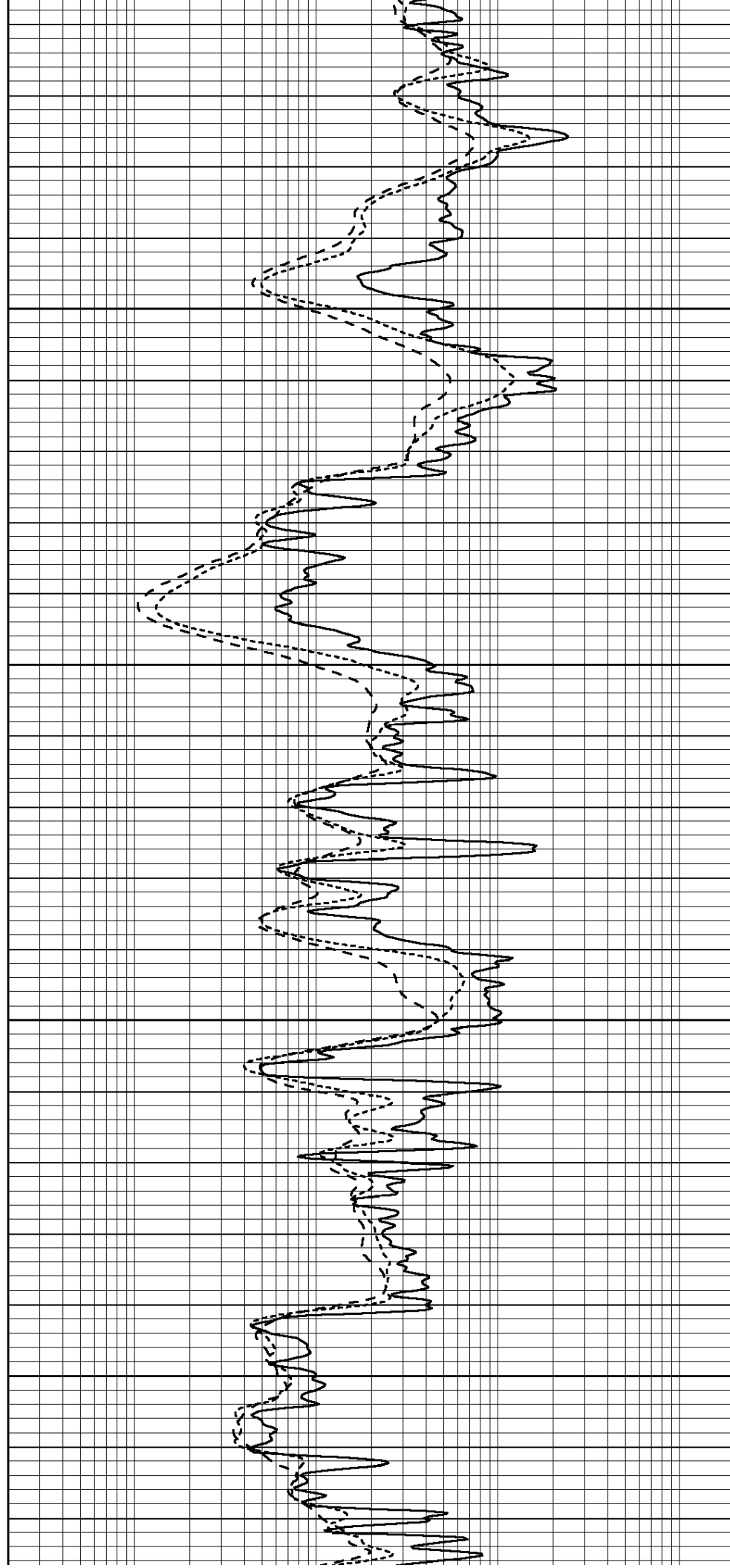


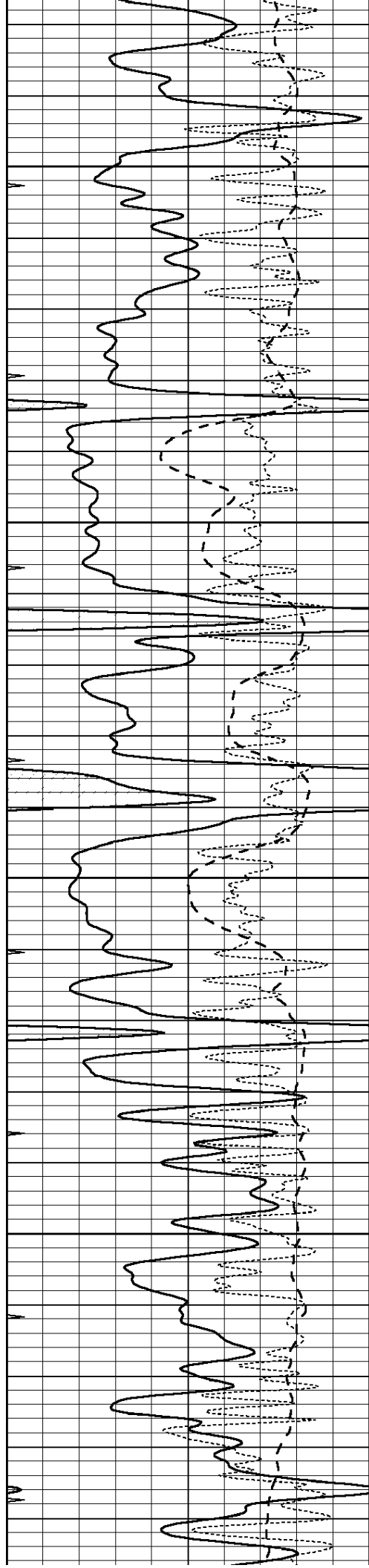
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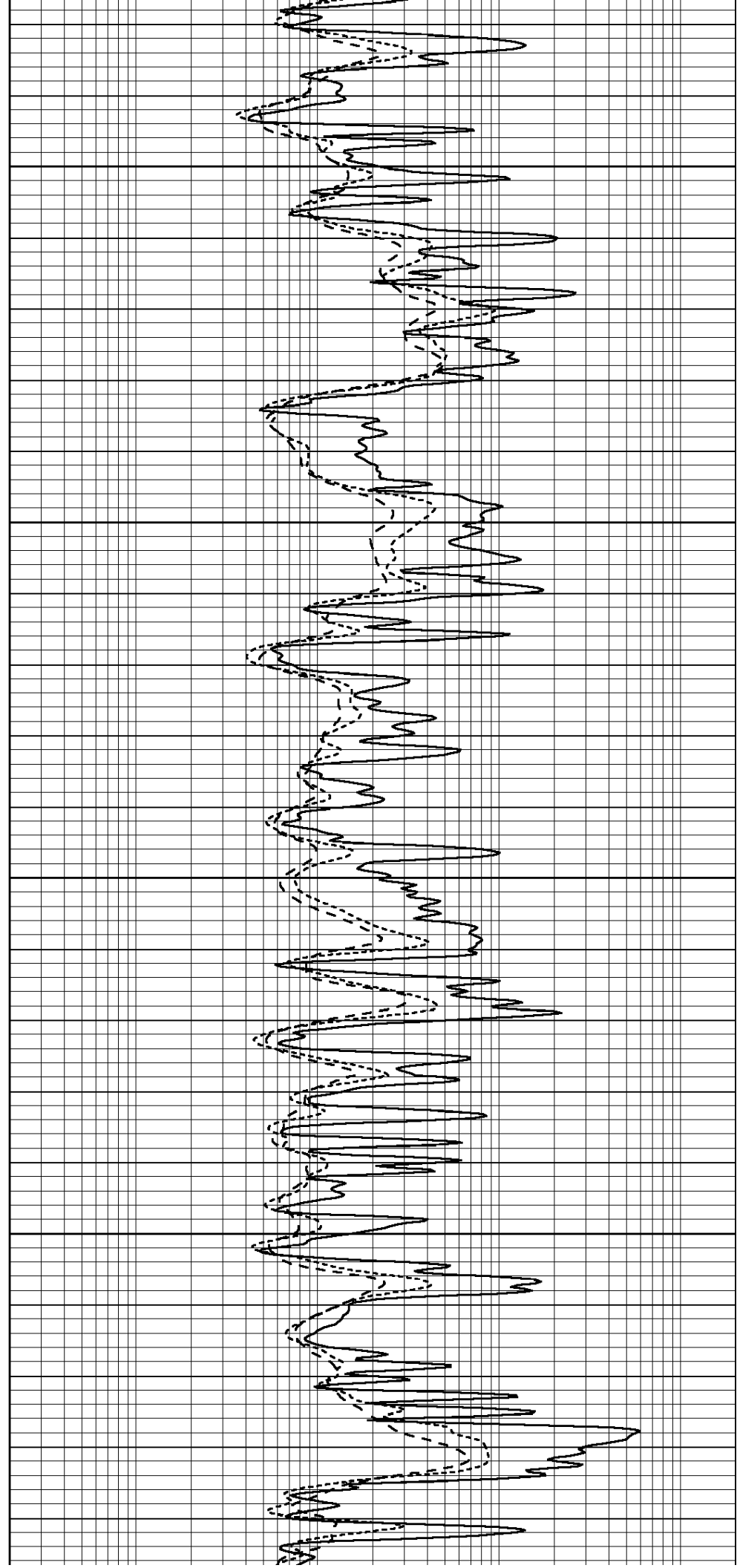


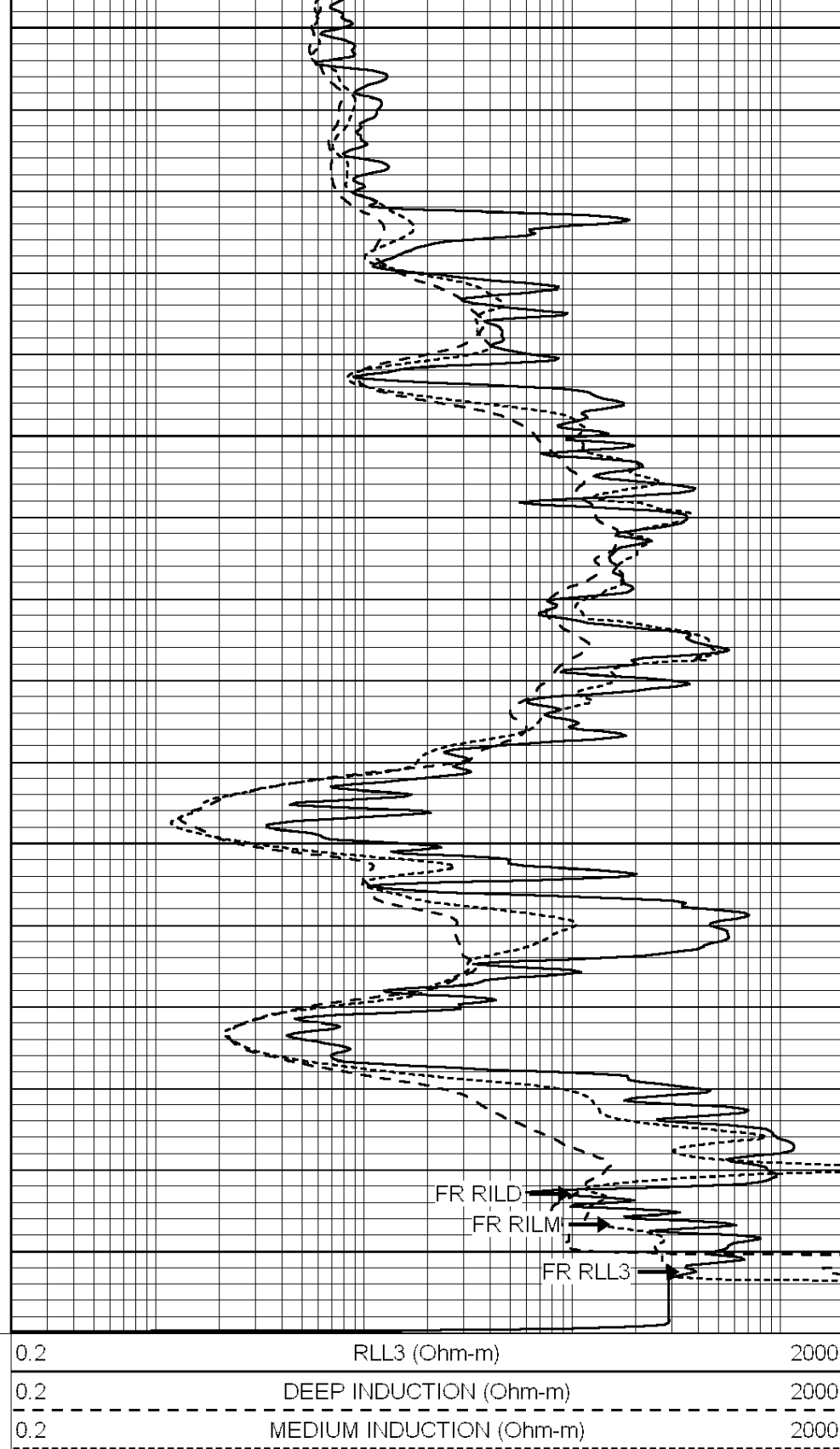
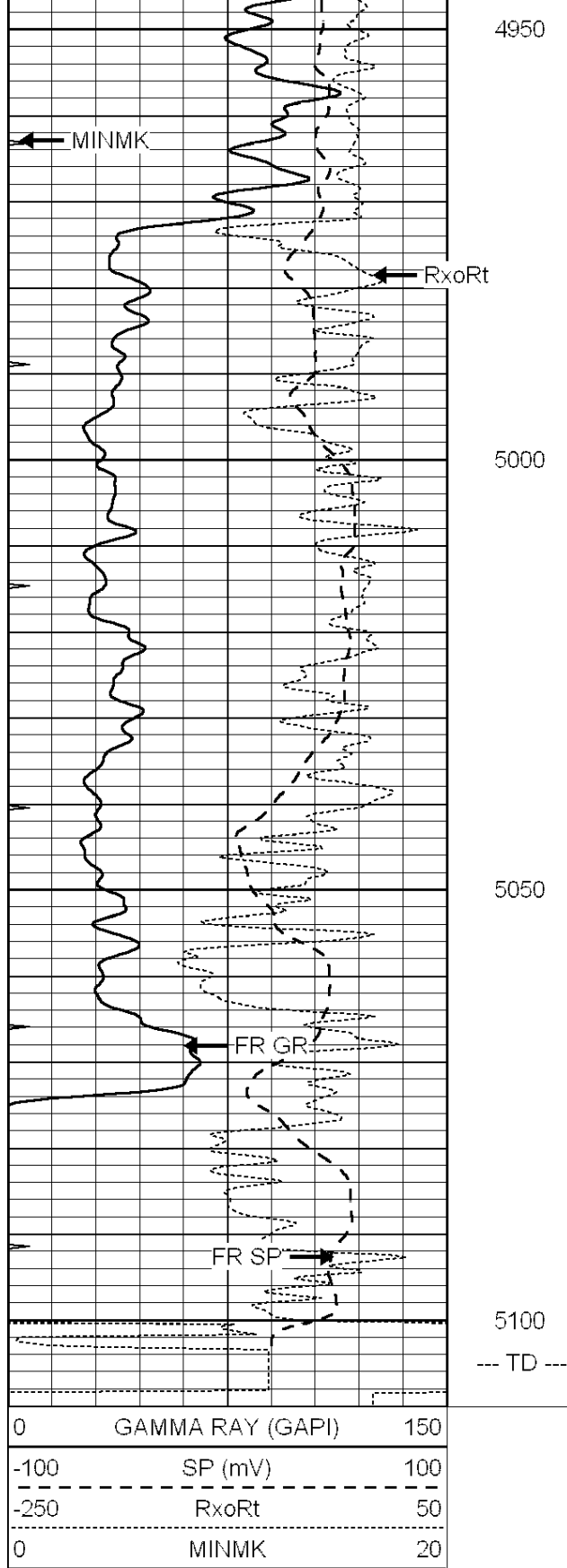
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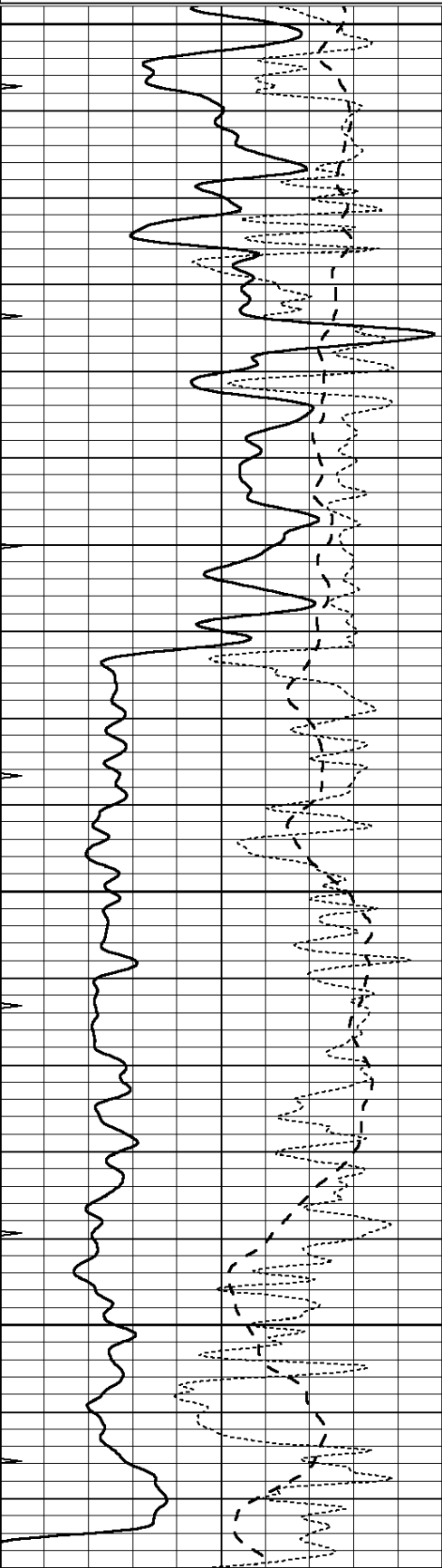
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0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	RxoRt	50
0	MINMK	20

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

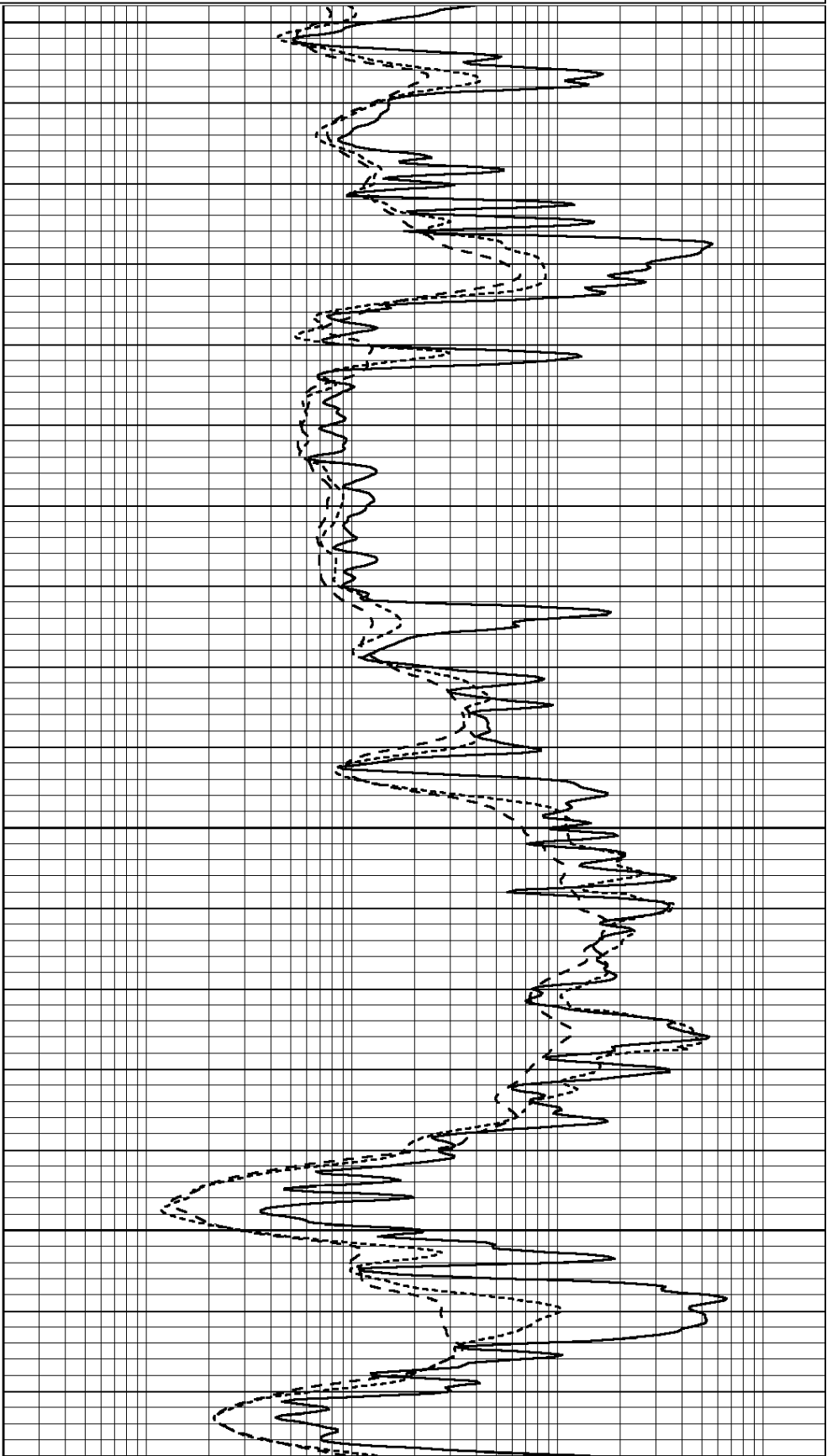


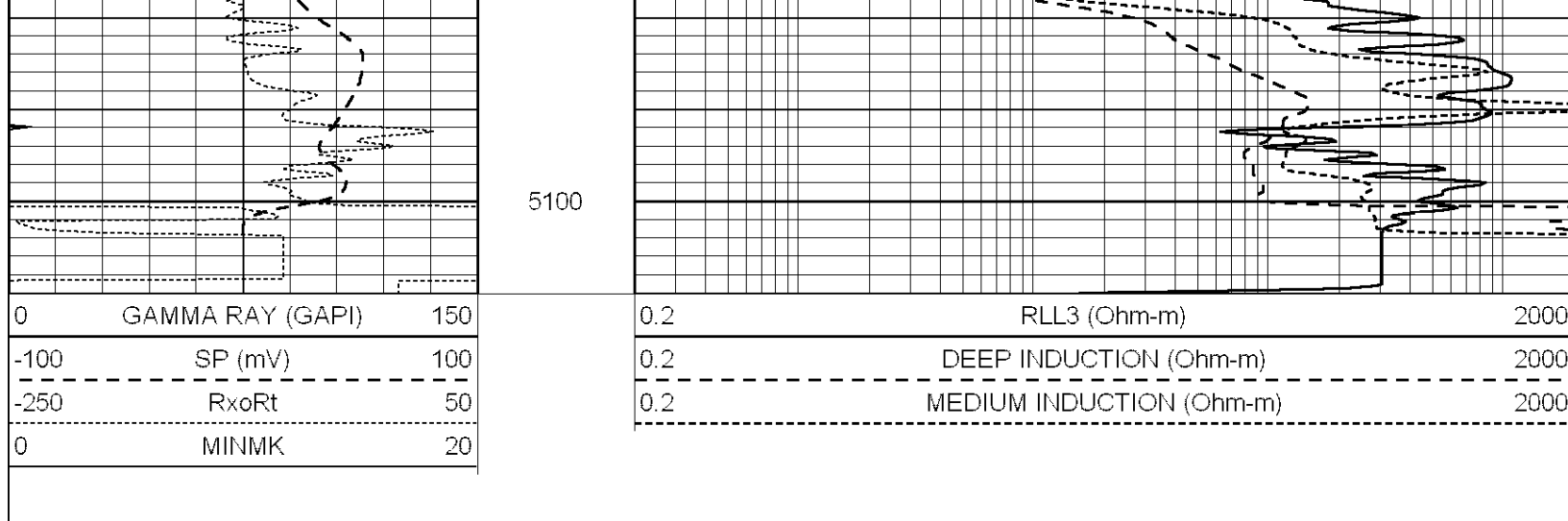
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4950

5000

5050





Calibration Report

Database File: 009950ddn.db
 Dataset Pathname: pass3.1A
 Dataset Creation: Sun Nov 18 03:06:22 2012

Dual Induction Calibration Report								
Serial-Model: Performed:			DIL5-GEAR Sun Nov 18 01:24:45 2012					
Readings			References			Results		
Loop:	Air	Loop	Air	Loop		m	b	
Deep	0.004	0.654	V	0.000	400.000	mmho/m	470.000	-10.000
Medium	-0.005	0.737	V	0.000	462.500	mmho/m	490.000	-7.500
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: Sun Nov 18 01:24:34 2012

Master Calibration						
	Density			Far Detector		Near Detector
Magnesium	1.710	g/cc		1205.67		613.10 cps
Aluminum	2.590	g/cc		277.64		430.46 cps
Spine Angle = 76.46			Density/Spine Ratio = 0.583			
	Size			Reading		
Small Ring	8.75	in		4.69	V	
Large Ring	14.00	in		6.52	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 Nov 18 01:33:42 2012				
Calibrator Value:	1.0	GAPI			
Background Reading:	0.0	cps			
Calibrator Reading:	1.0	cps			
Sensitivity:	0.7500	GAPI/cps			