



NABORS

**COMPLETION
& PRODUCTION
SERVICES CO.**

**DUAL INDUCTION
LOG**

Company	ANDERSON ENERGY, INC.		
Well	SCHAUL "A" #1		
Field	WILDCAT		
County	PRATT	State	KANSAS
Location:	AP1 # : 15-151-22406-0000		Other Services CDL/CNL/PE MEL/SONIC
2070' FNL & 2697' FEL			
Permanent Datum	GROUND LEVEL	Elevation	2020
Log Measured From	KELLY BUSHING 9' A.G.L.	Elevation	K.B. 2029
Drilling Measured From	KELLY BUSHING	Elevation	D.F. 2027
		Elevation	G.L. 2020
Date	1/13/13		
Run Number	ONE		
Depth Driller	5220		
Depth Logger	5220		
Bottom Logged Interval	5218		
Top Log Interval	00		
Casing Driller	8 5/8"@281'		
Casing Logger	281		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 9,000 PPM	
Density / Viscosity	9.4/47		
pH / Fluid Loss	10.0/10.4		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	.600@79F		
Rmf @ Meas. Temp	.450@79F		
Rmc @ Meas. Temp	.720@79F		
Source of Rmf / Rmc	MEASUREMENT		
Rim @ BHT	.373@127F		
Time Circulation Stopped	3 HOURS		
Time Logger on Bottom	4:45 A.M.		
Maximum Recorded Temperature	127F		
Equipment Number	4854		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	KEN LeBLANC	THOMAS ANDERSON	

<<< Fold Here >>>

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 "NABORS" HAYS, KANSAS (785) 628-6395
DIRECTIONS
CROFT, KS. 2S., 1/2 W. INTO

Database File:

010045pe.db

Dataset Pathname:

pass3.4

Presentation Format:

dil2

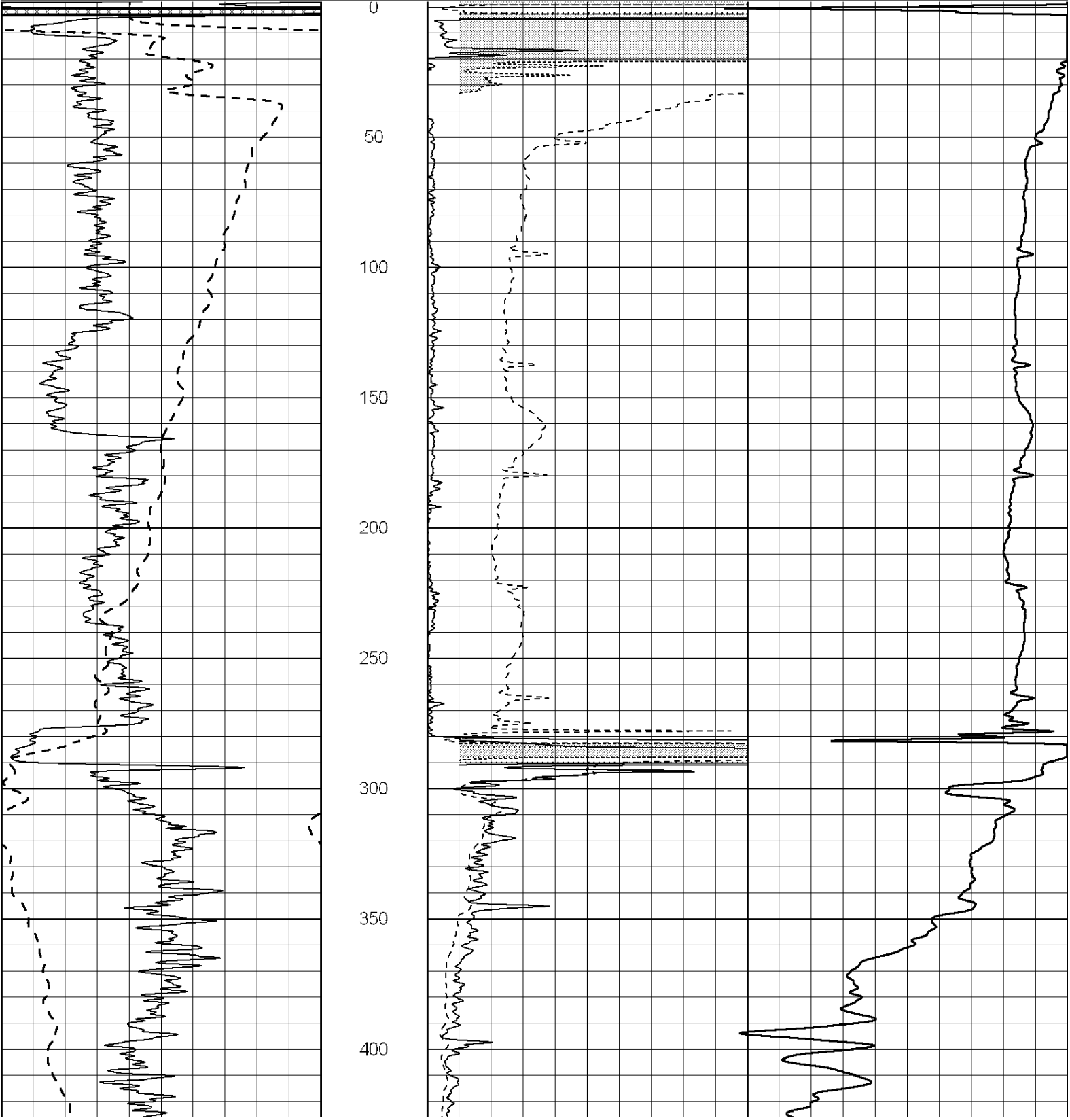
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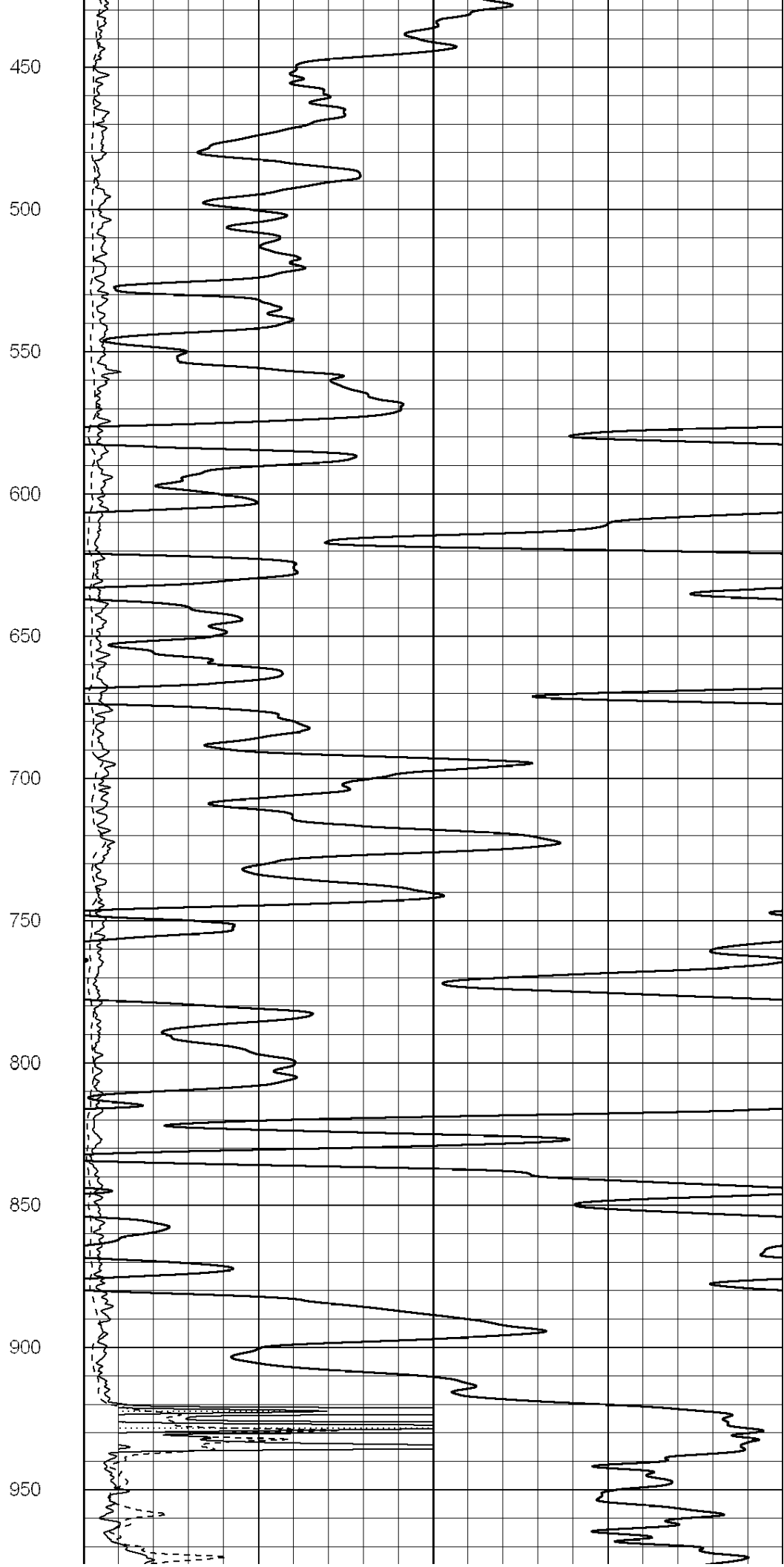
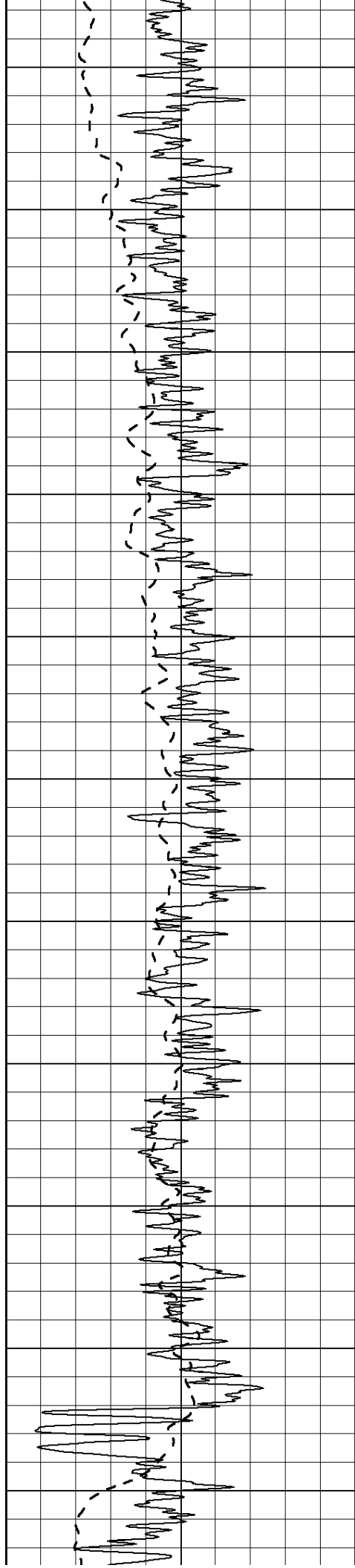
Sun Jan 13 08:00:26 2013 by Calc SOC 120430

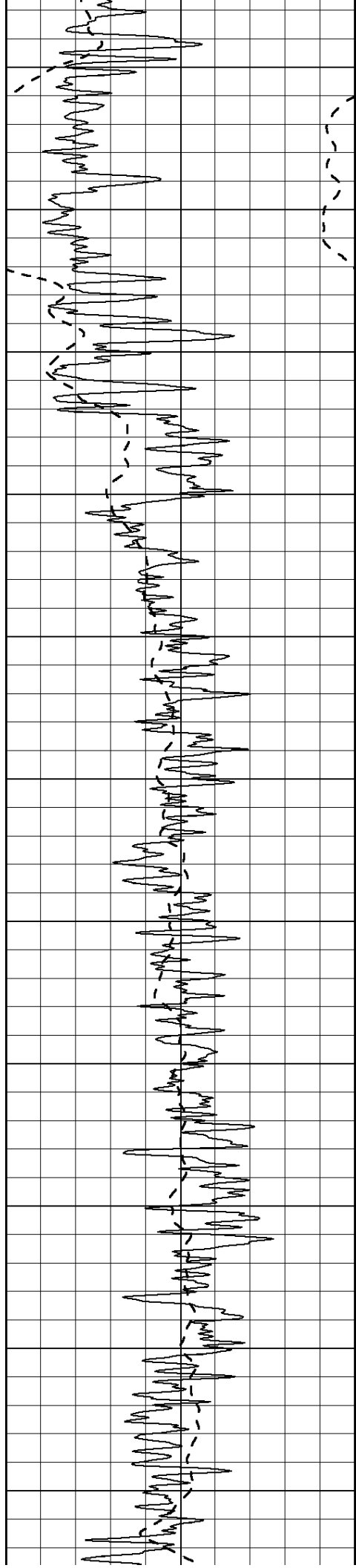
Charted by:

Depth in Feet scaled 1:600

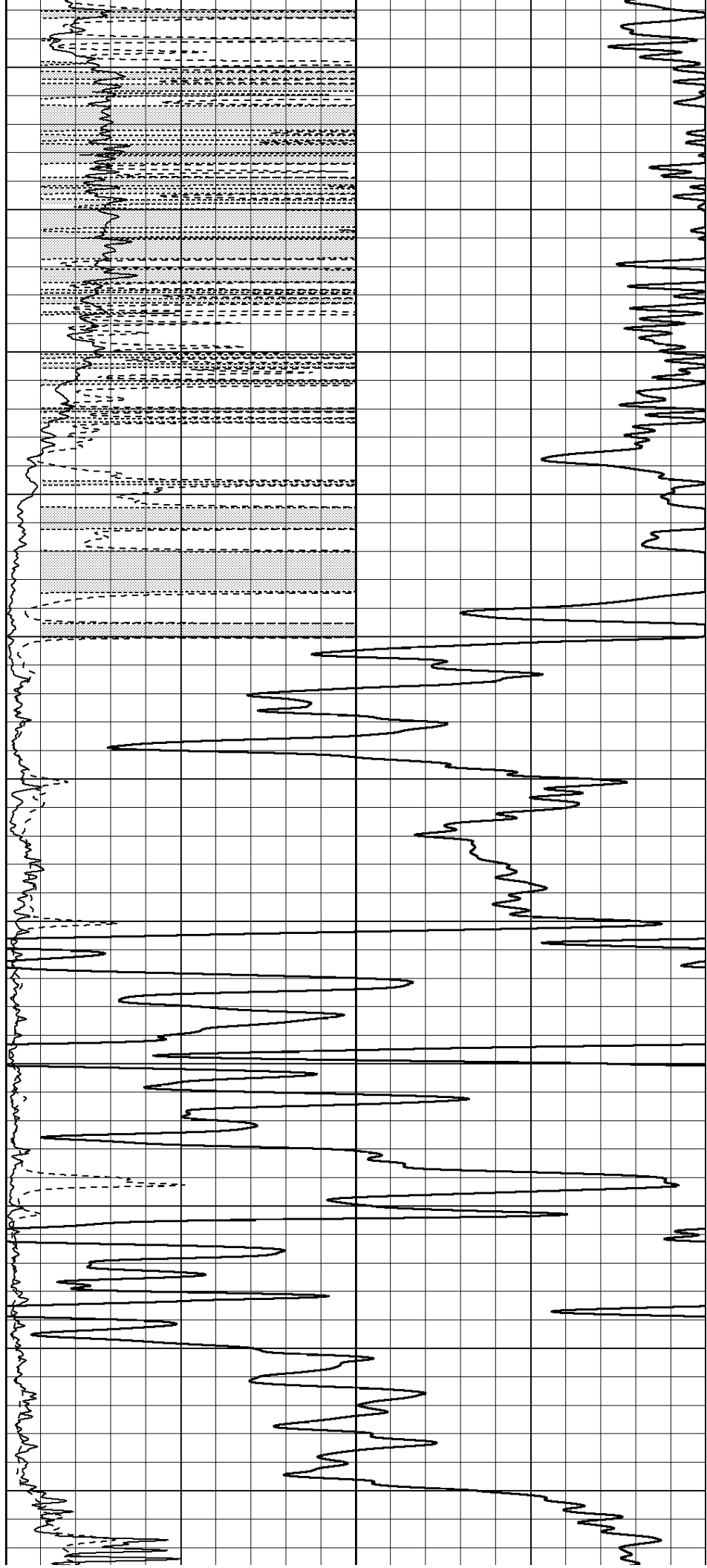
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-100	SP (mV)	100	0	RILD (Ohm-m)	50	
-----			1000			CILD (mmho/m)
			50	RILD X10 (Ohm-m)	500	
			50	RLL3 X10 (Ohm-m)	500	

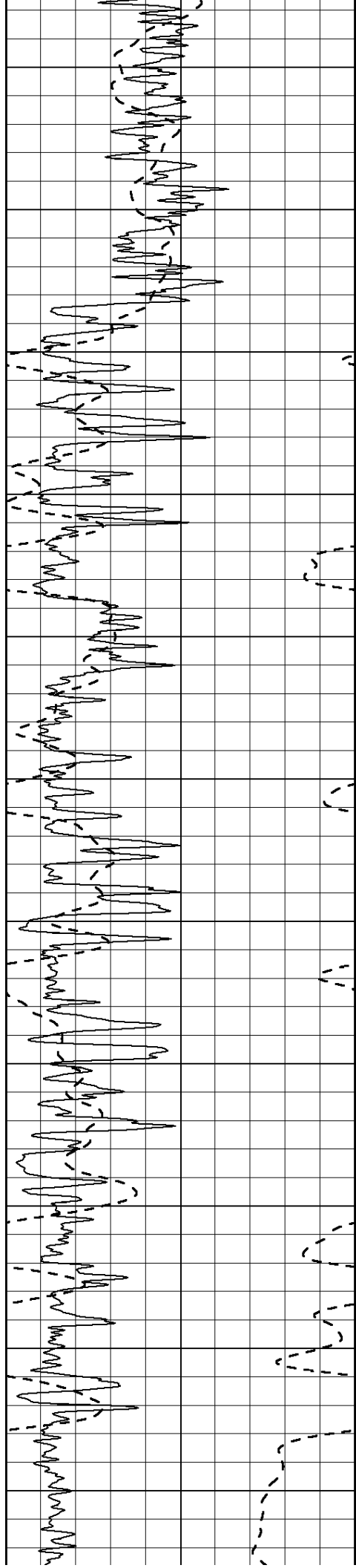






1000
1050
1100
1150
1200
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1450
1500





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1600

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1800

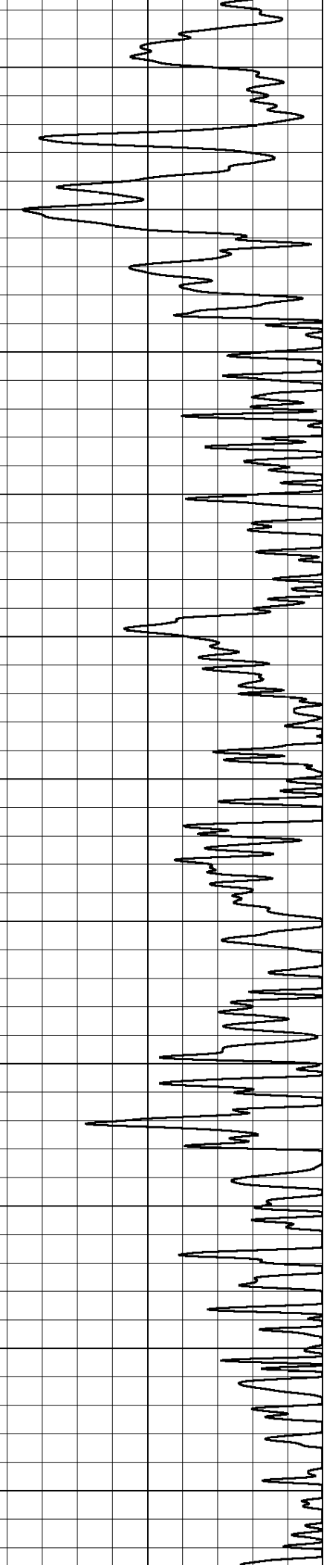
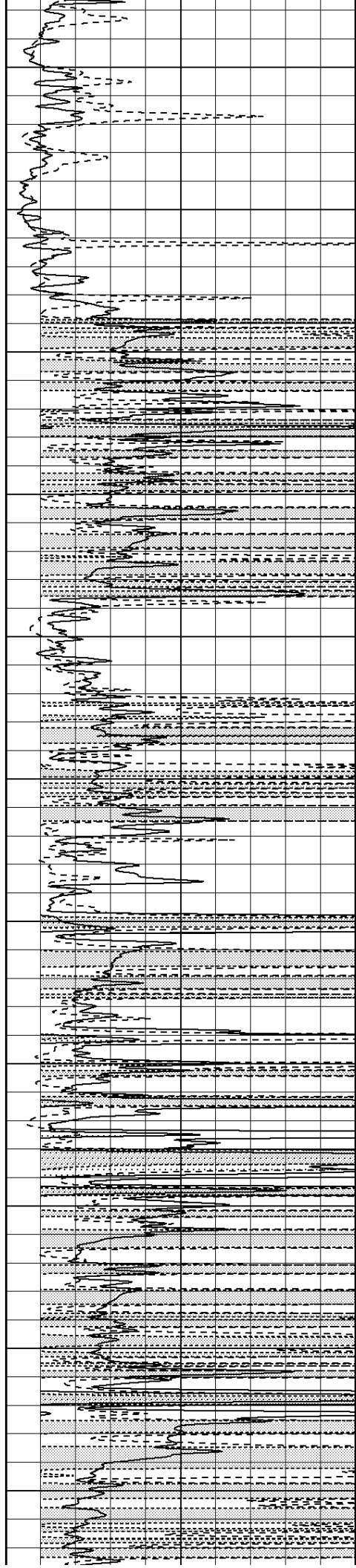
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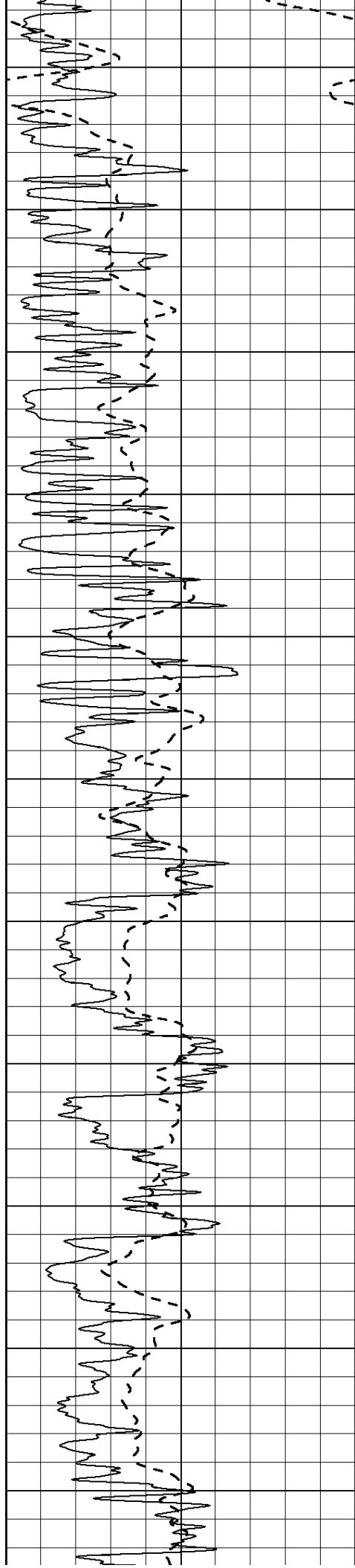
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2100

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2350

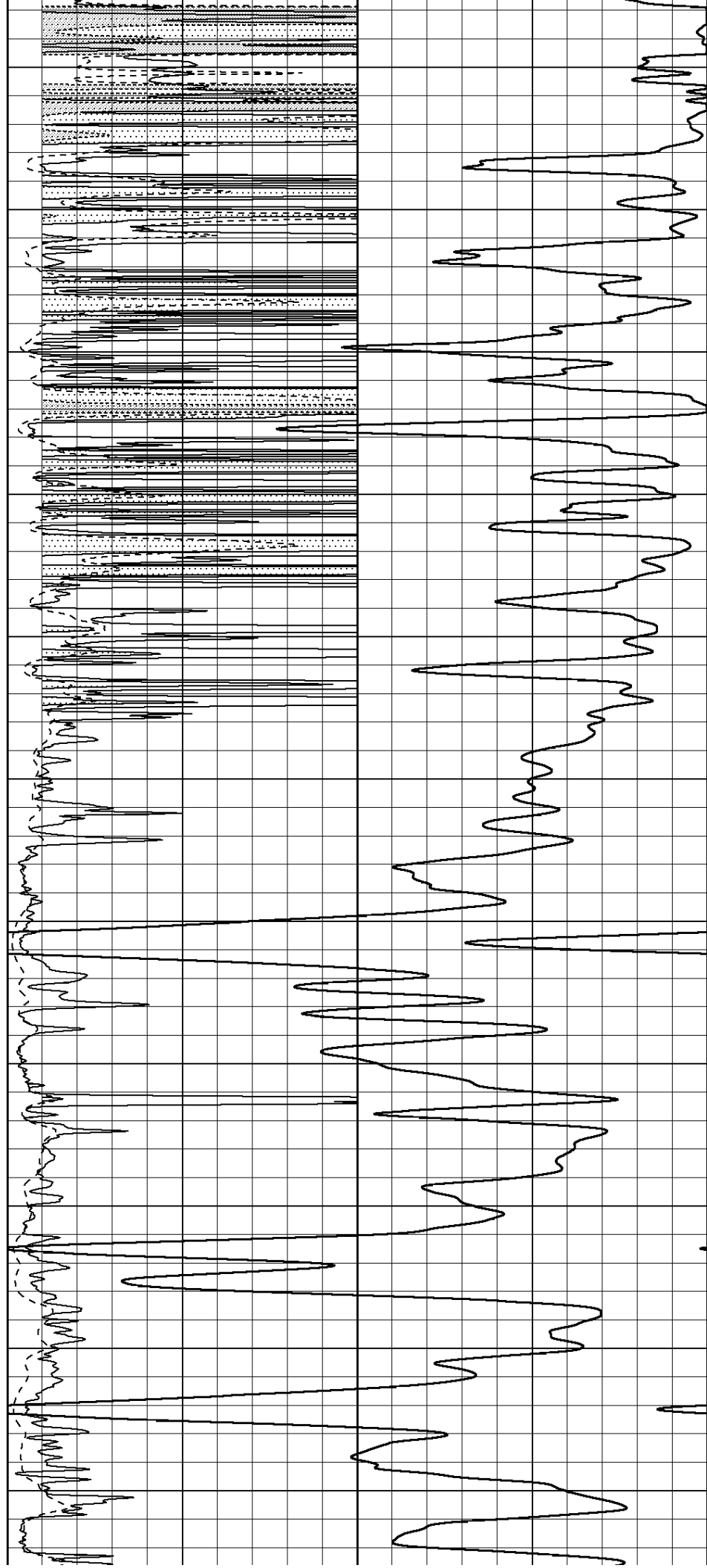
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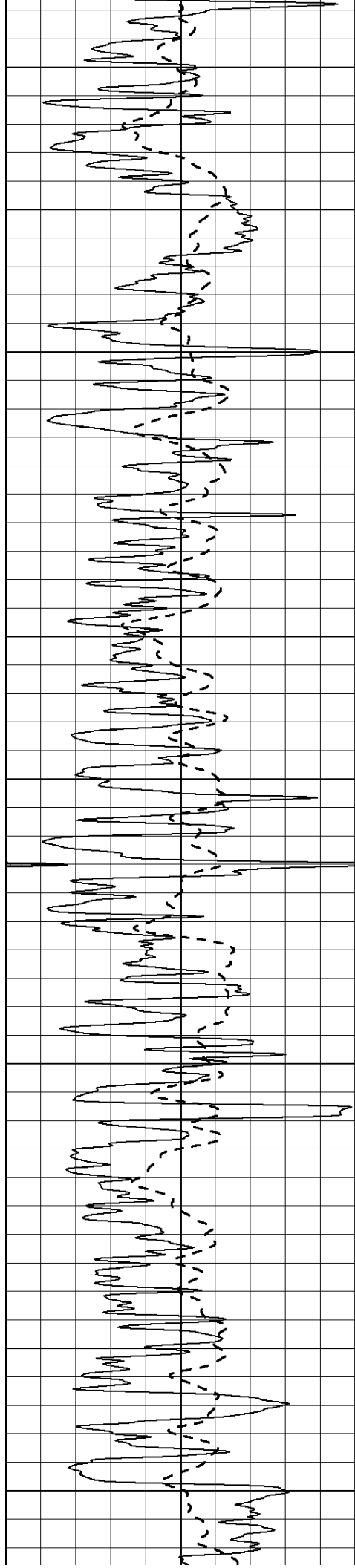
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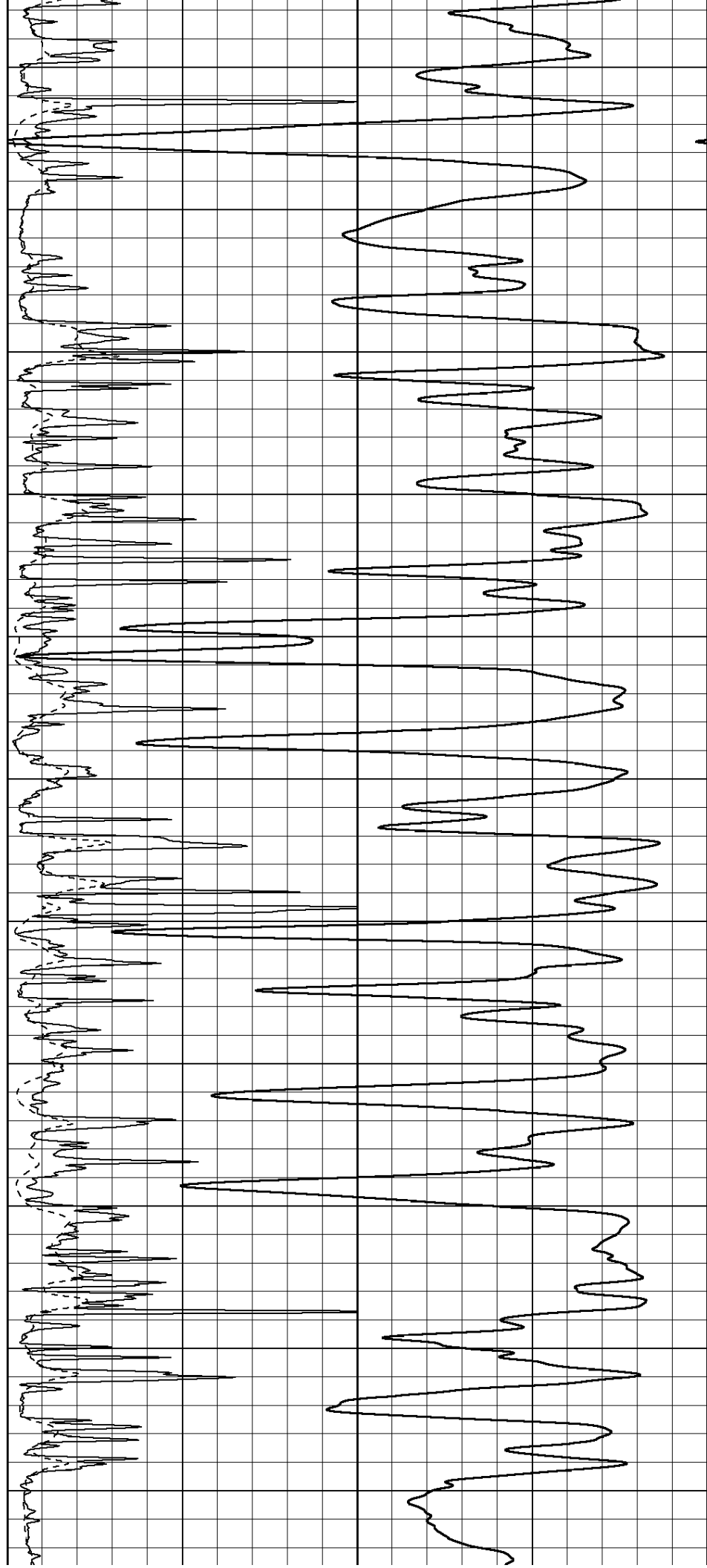
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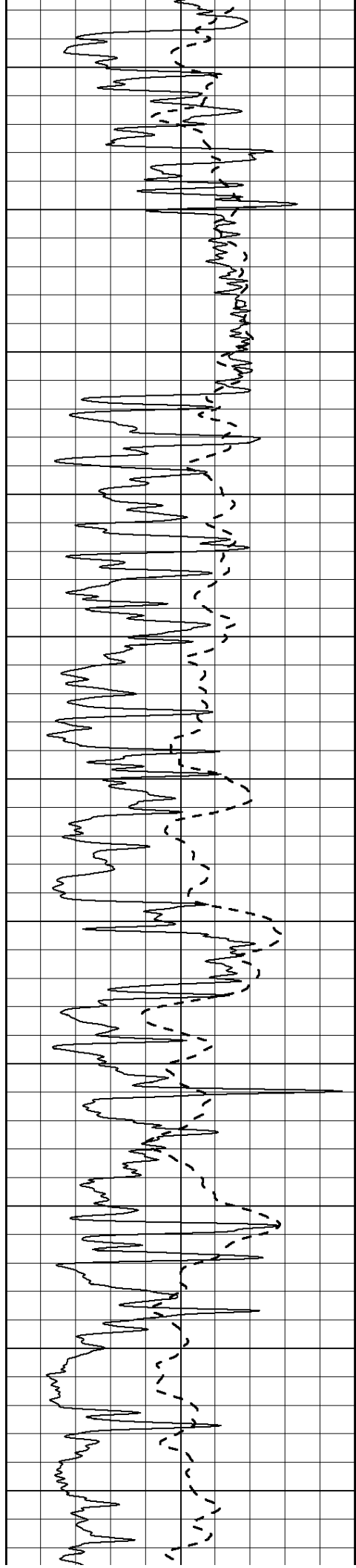
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3250

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3350

3400

3450

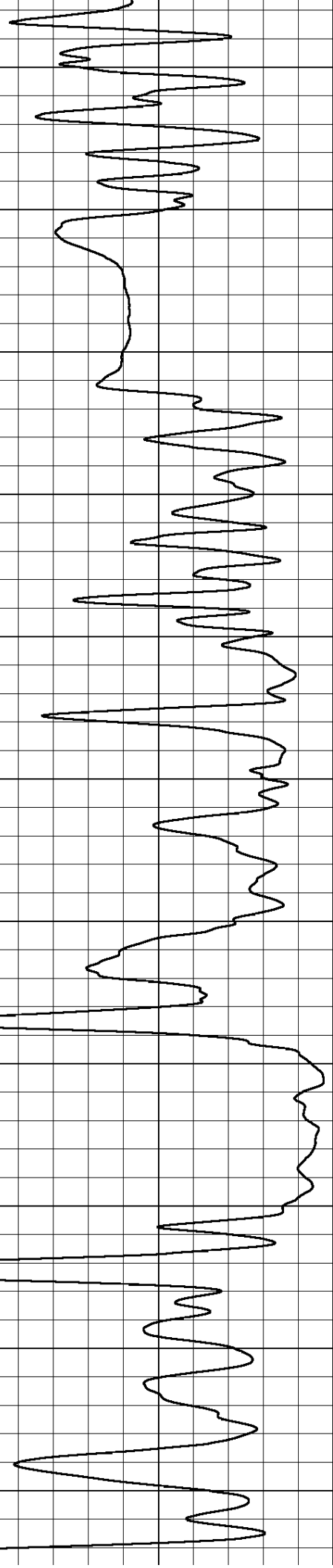
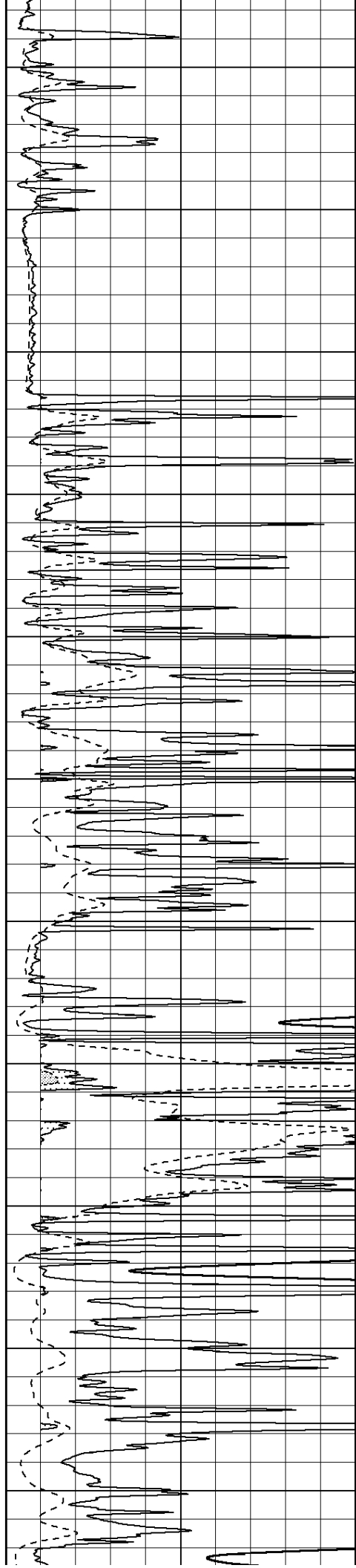
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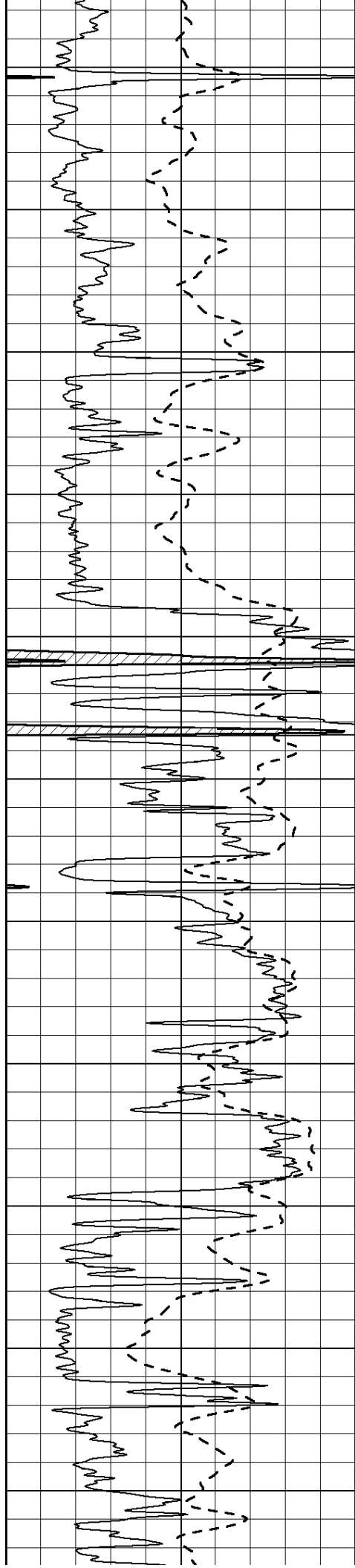
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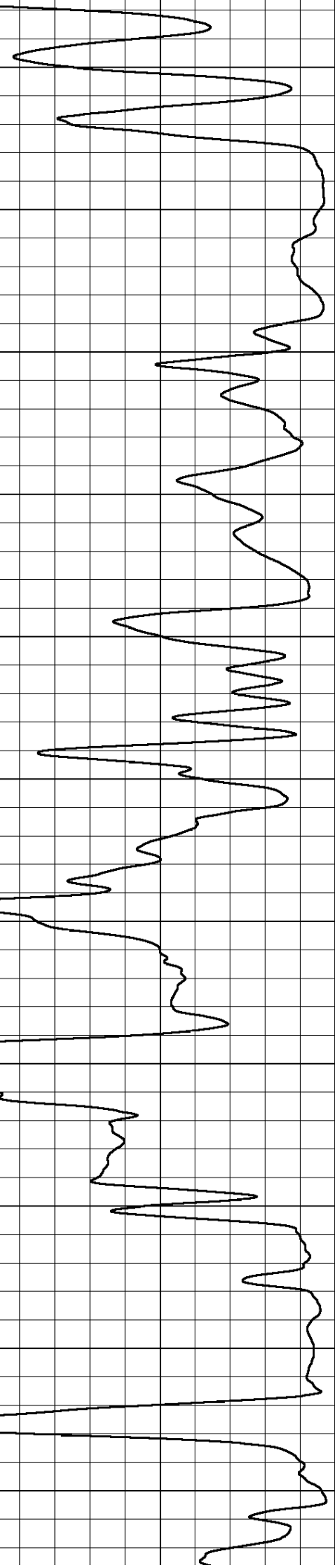
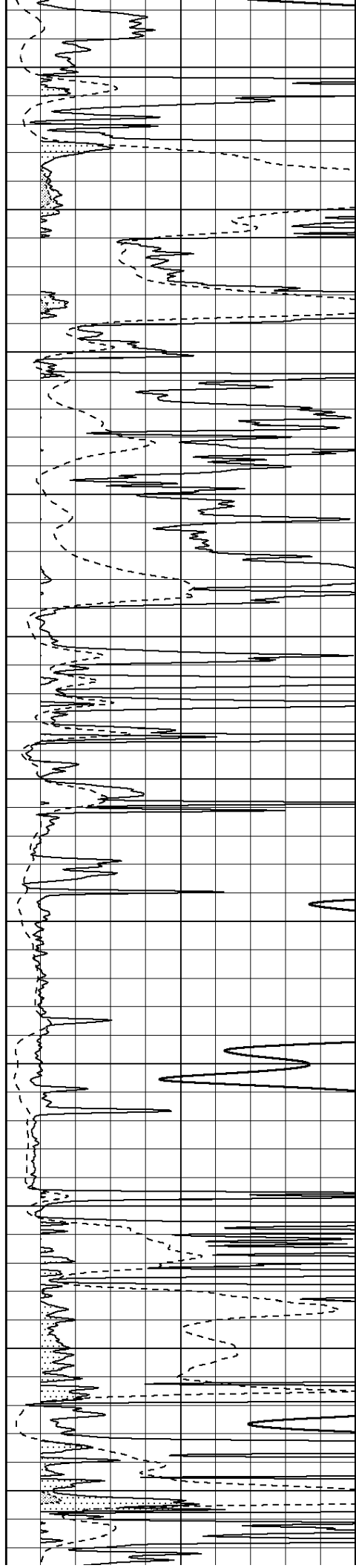
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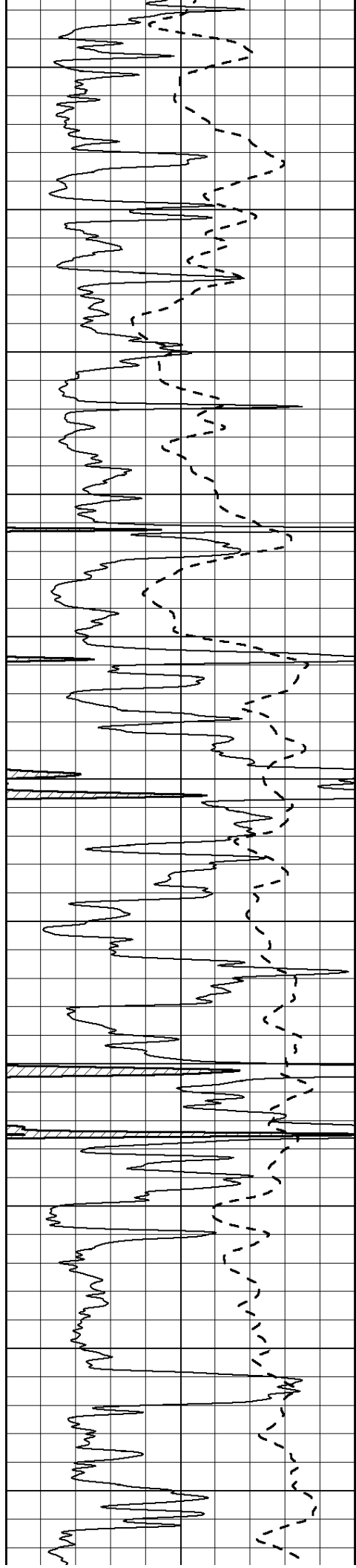
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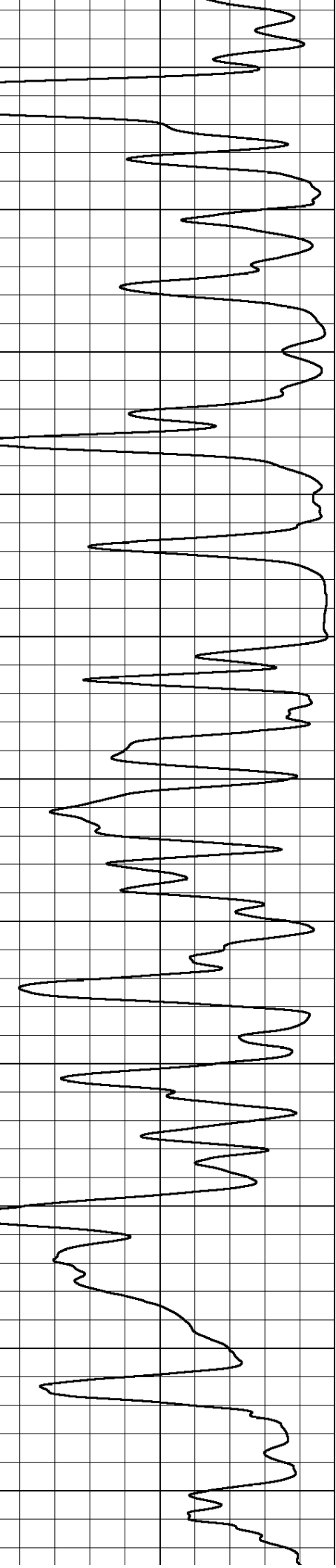
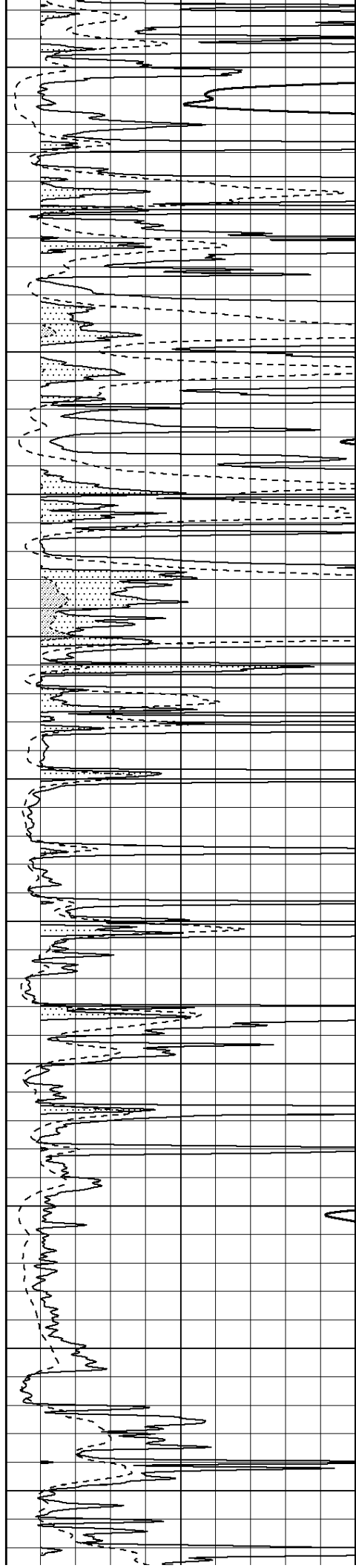
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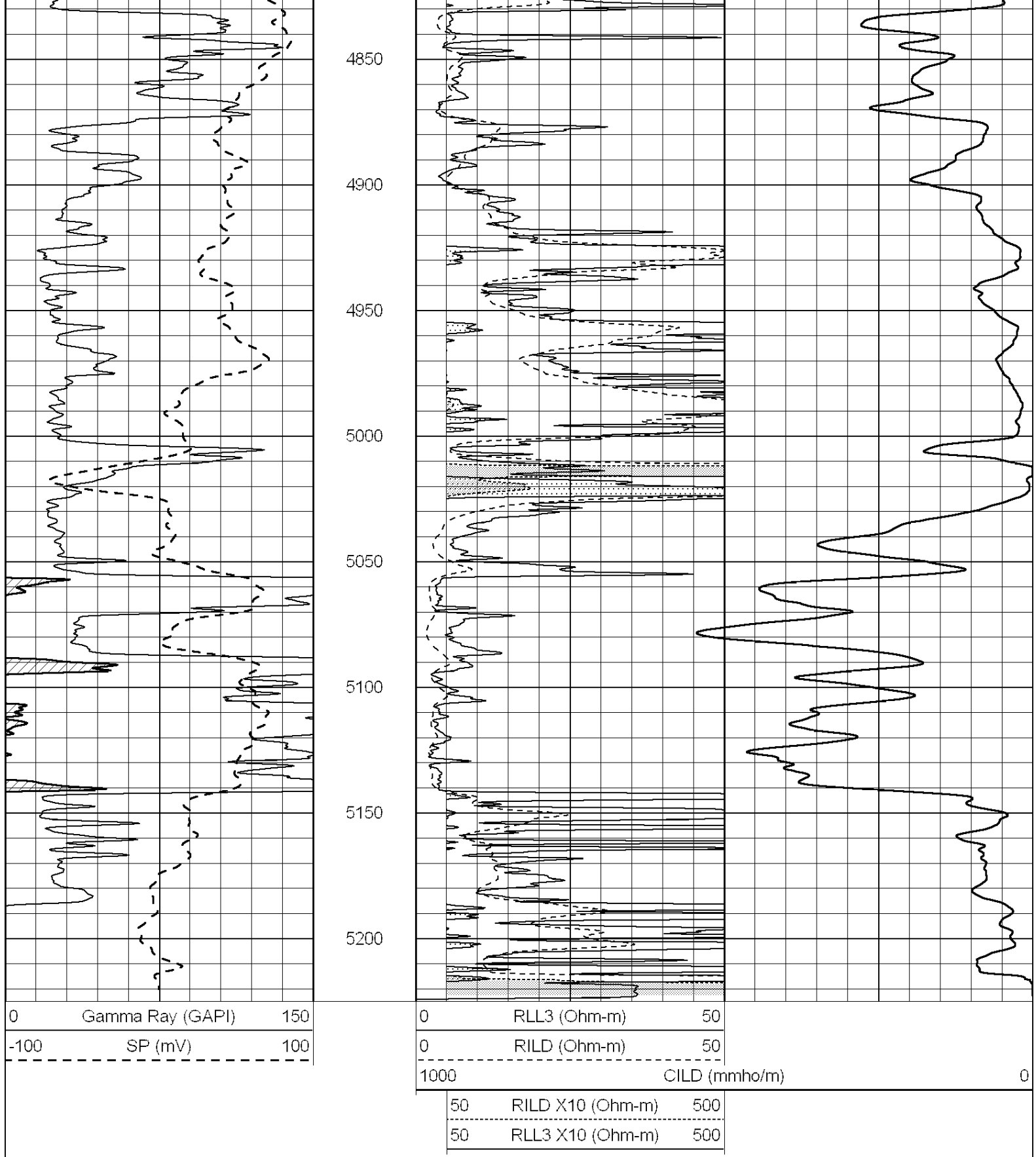
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4800





NABORS

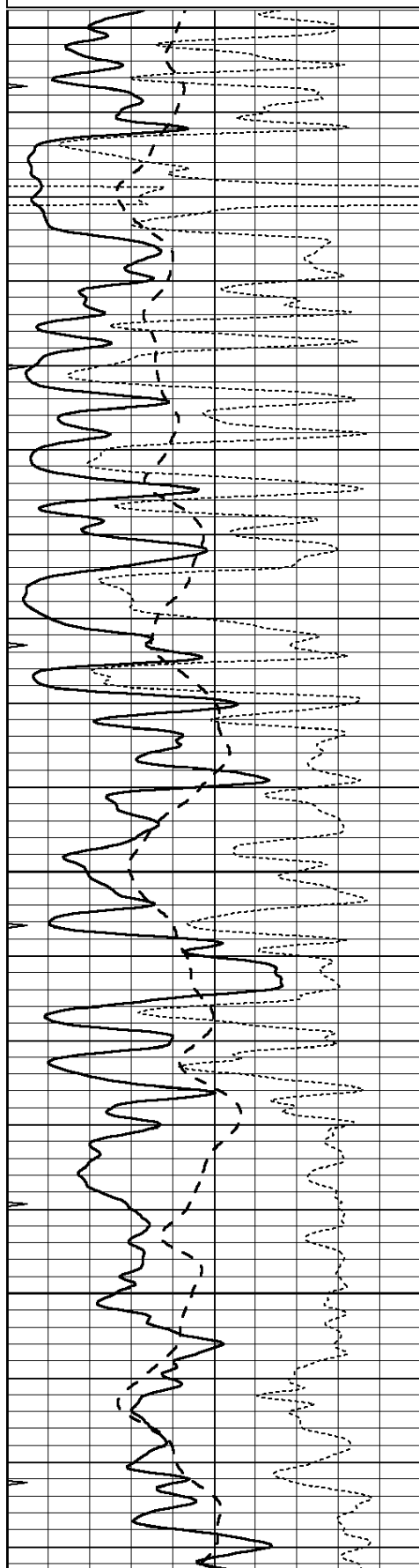
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MAIN SECTION

Database File: 010045pe.db
Dataset Pathname: pass3.4
Presentation Format: dil

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20

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

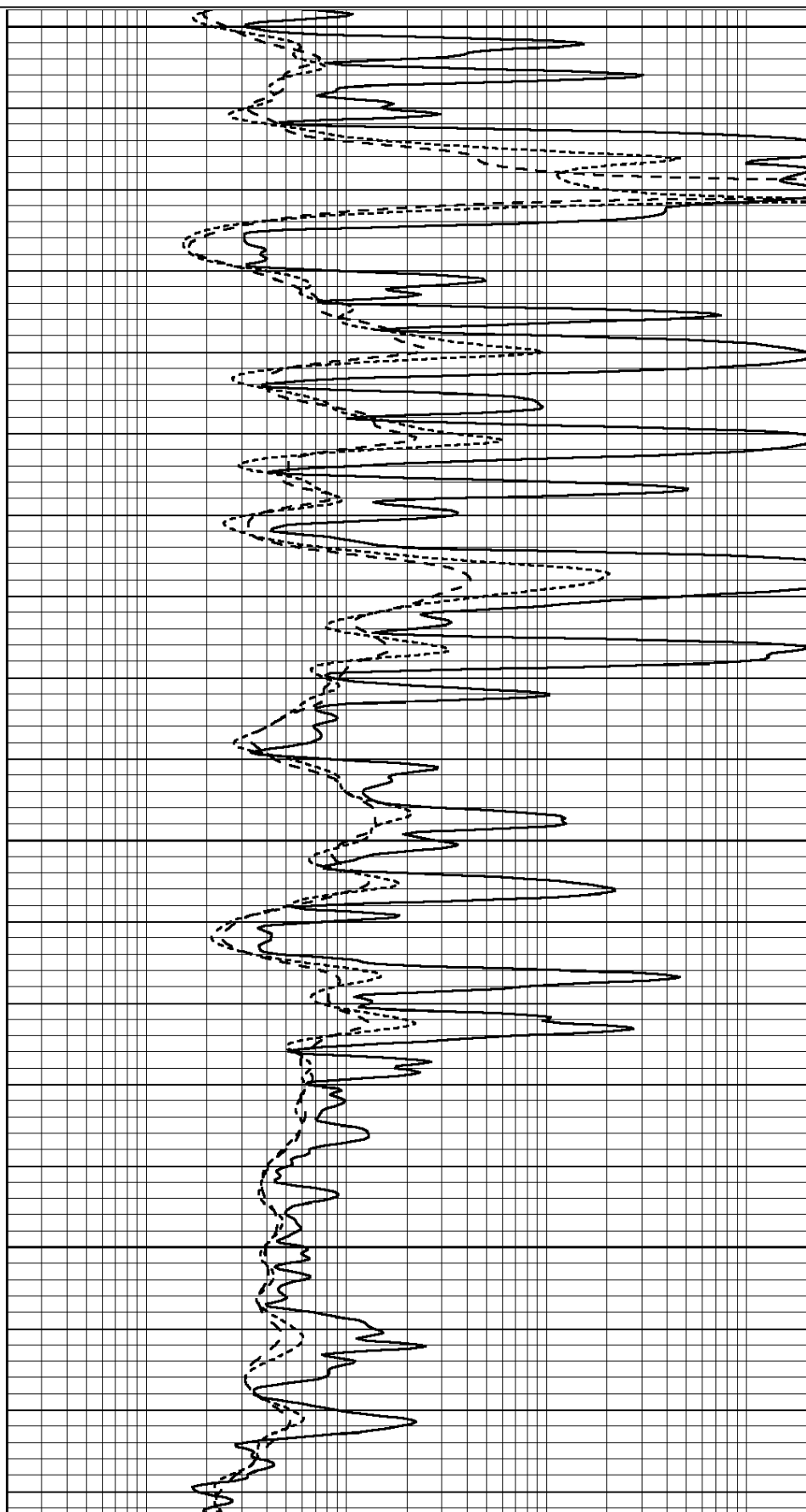


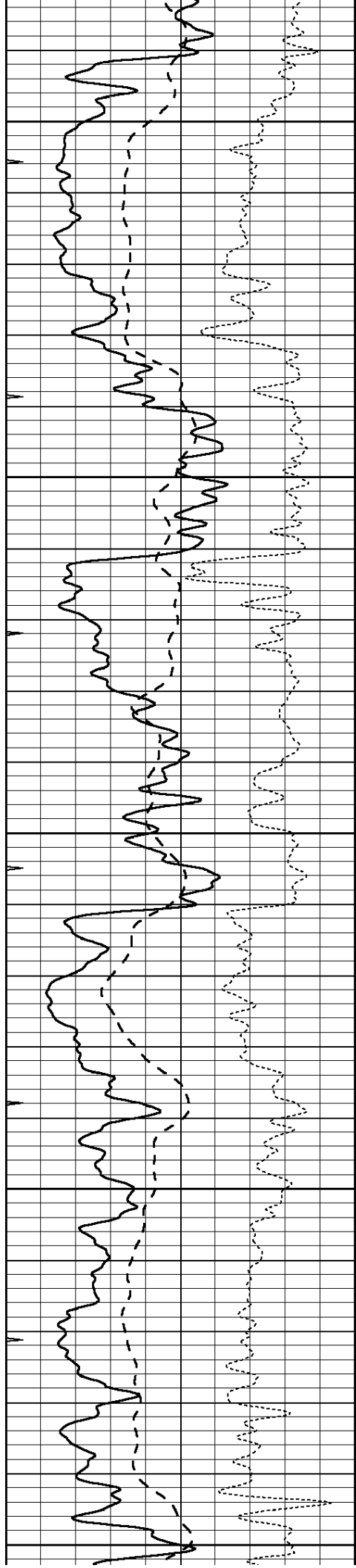
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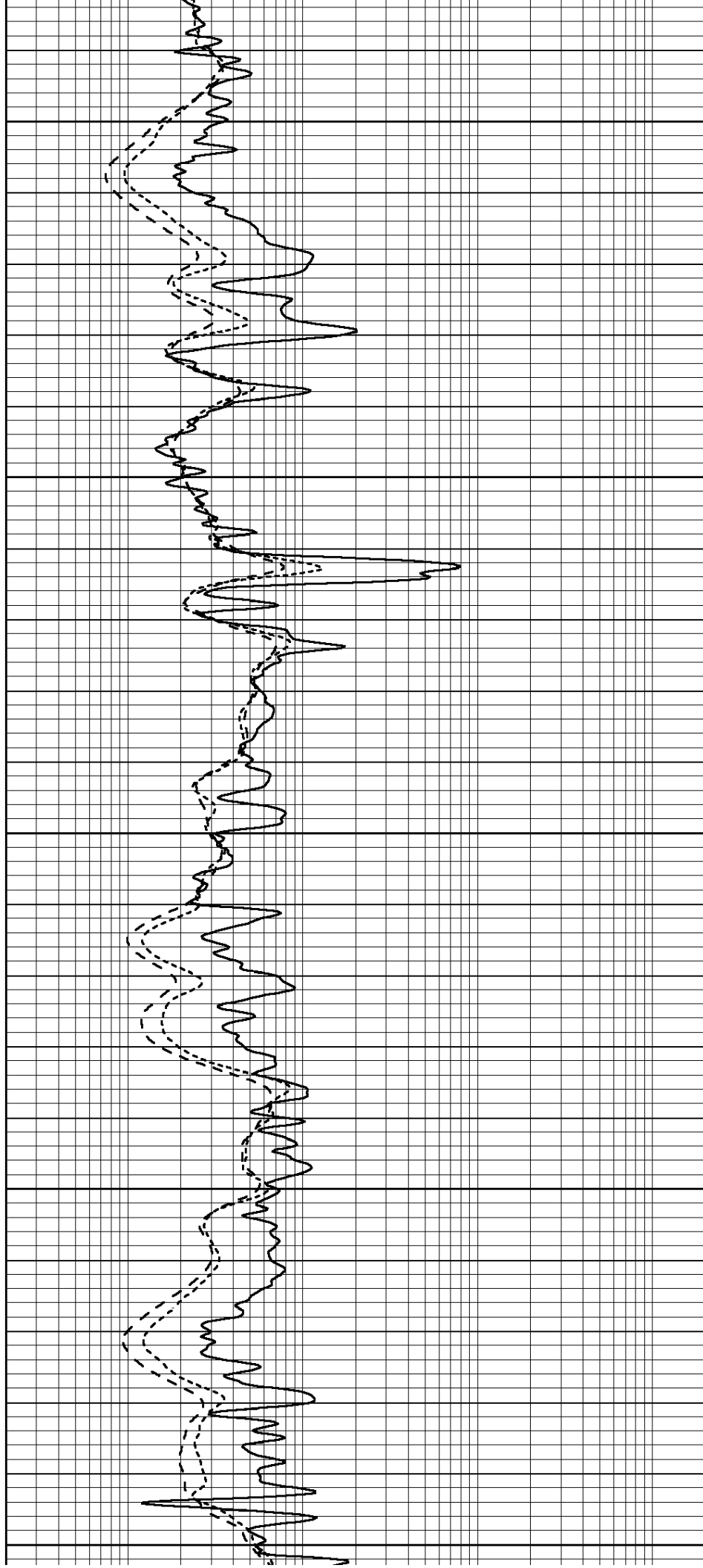
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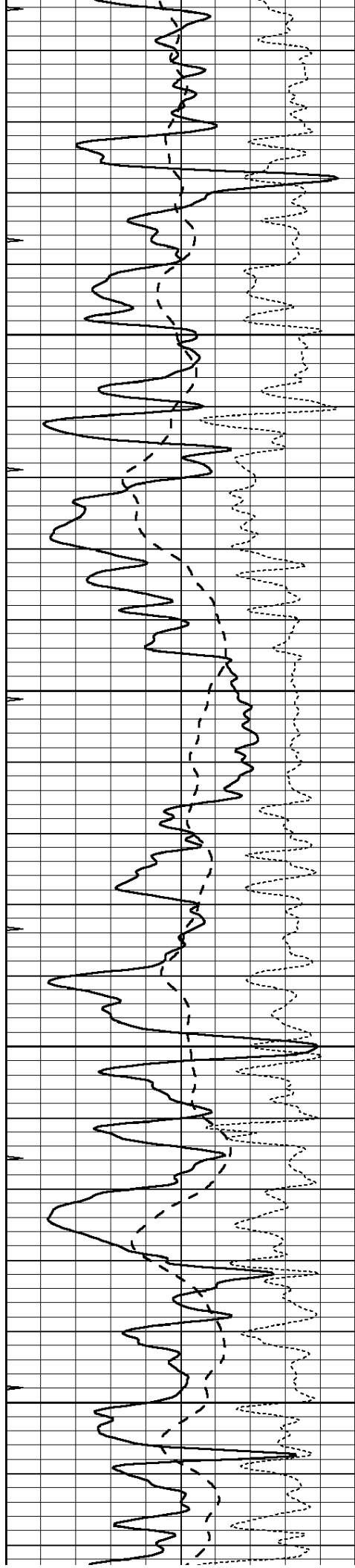
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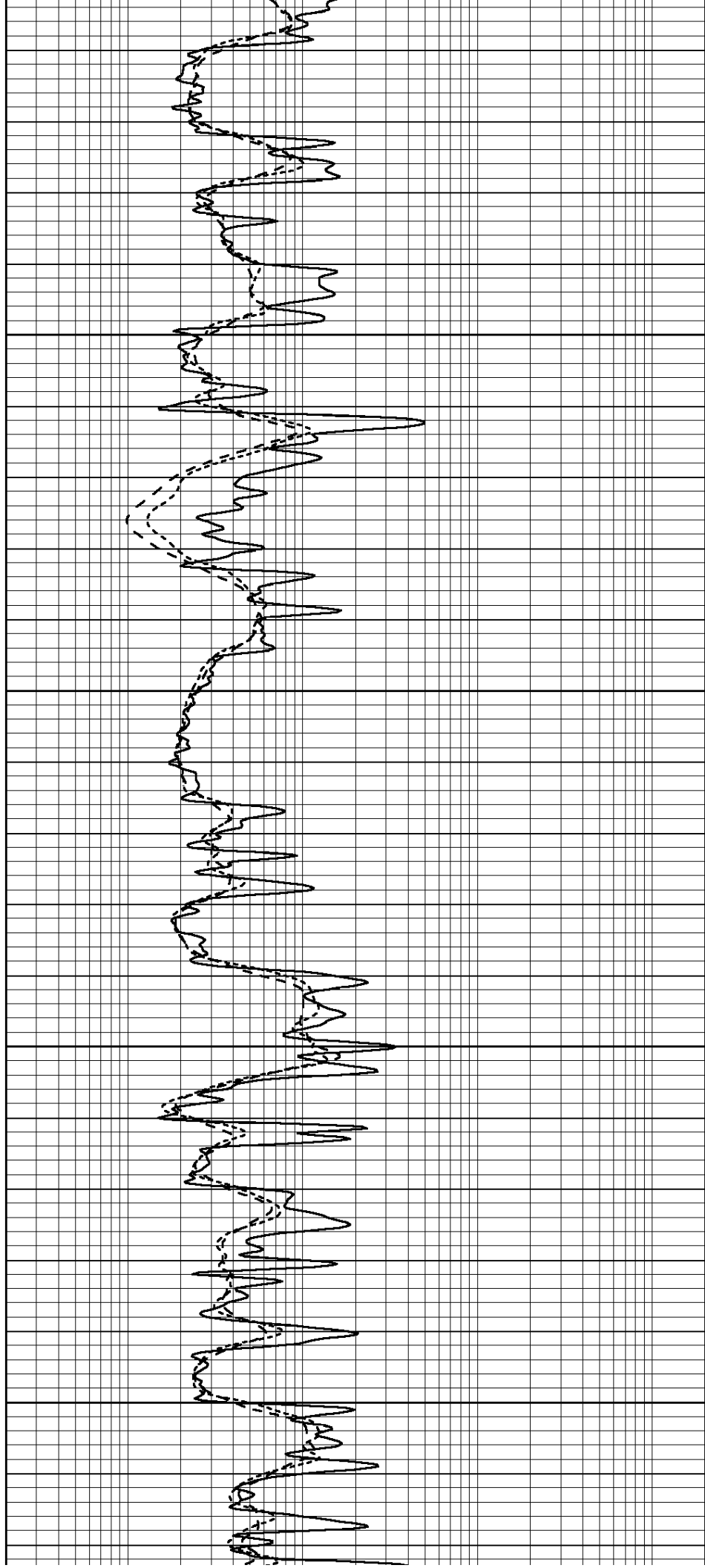


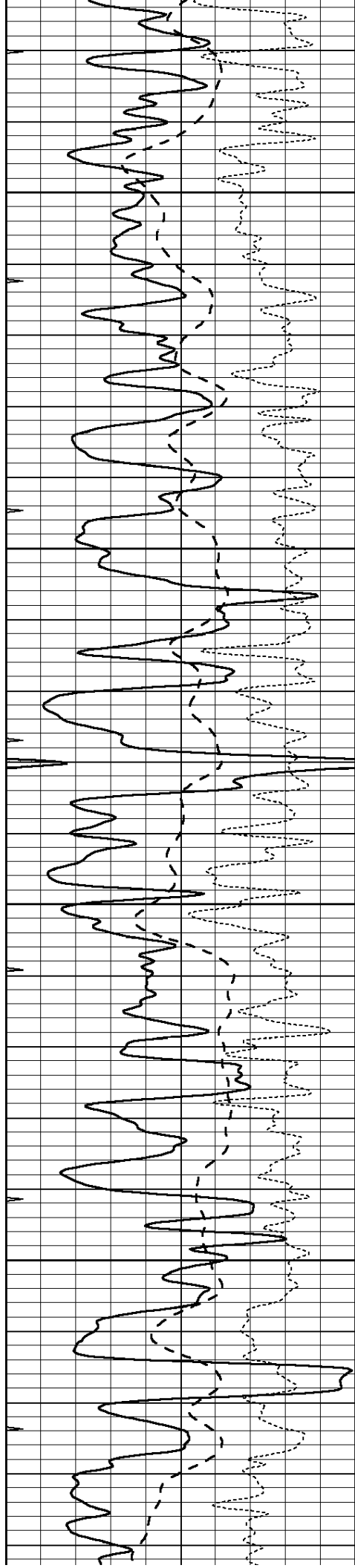
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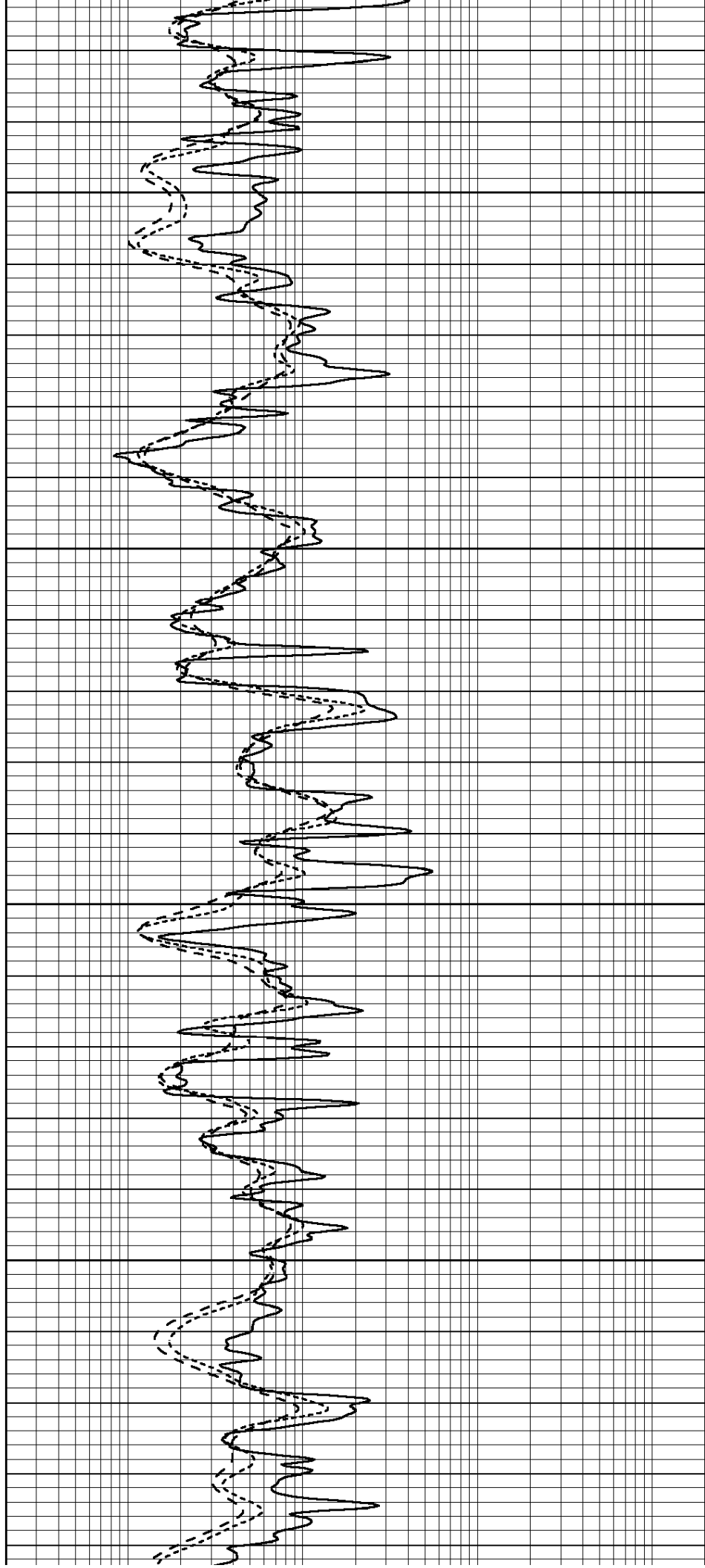


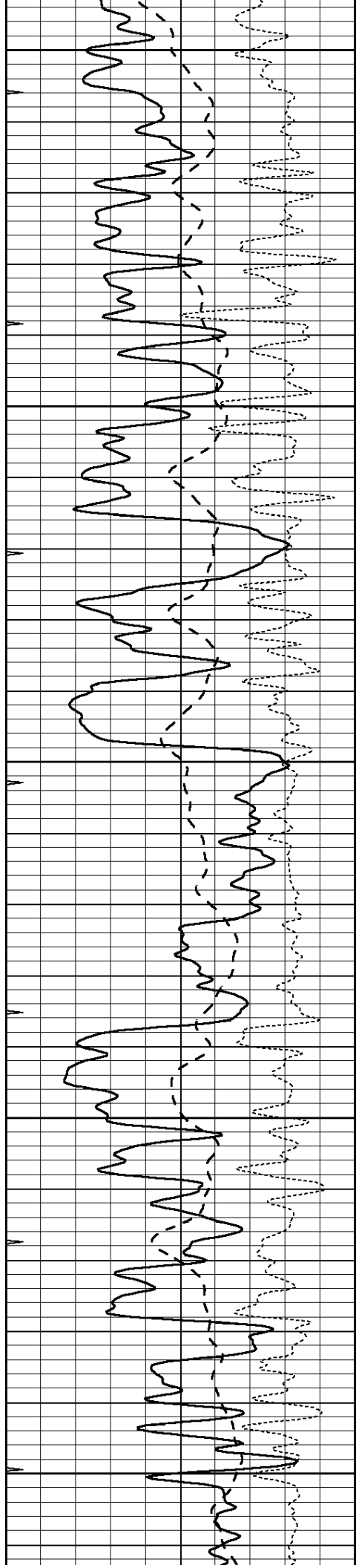
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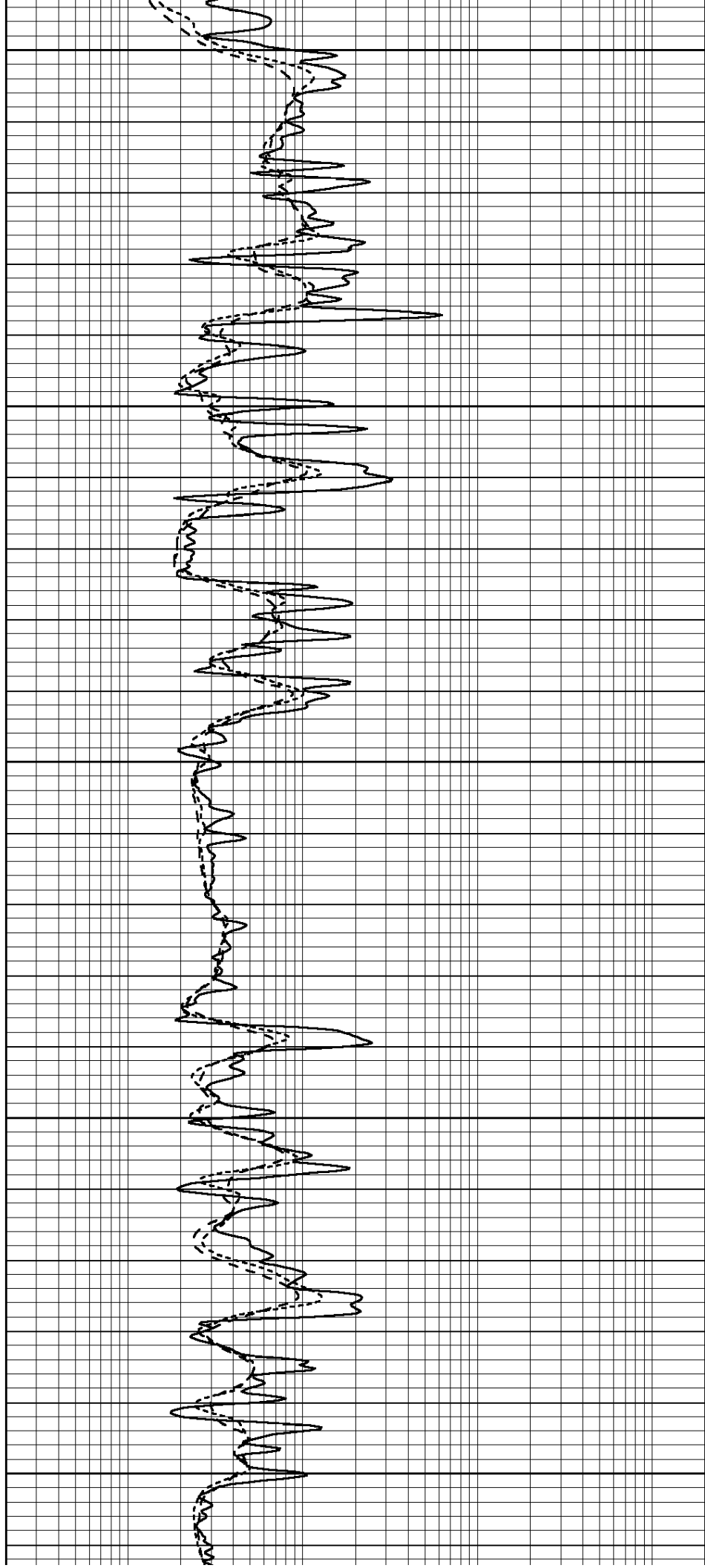
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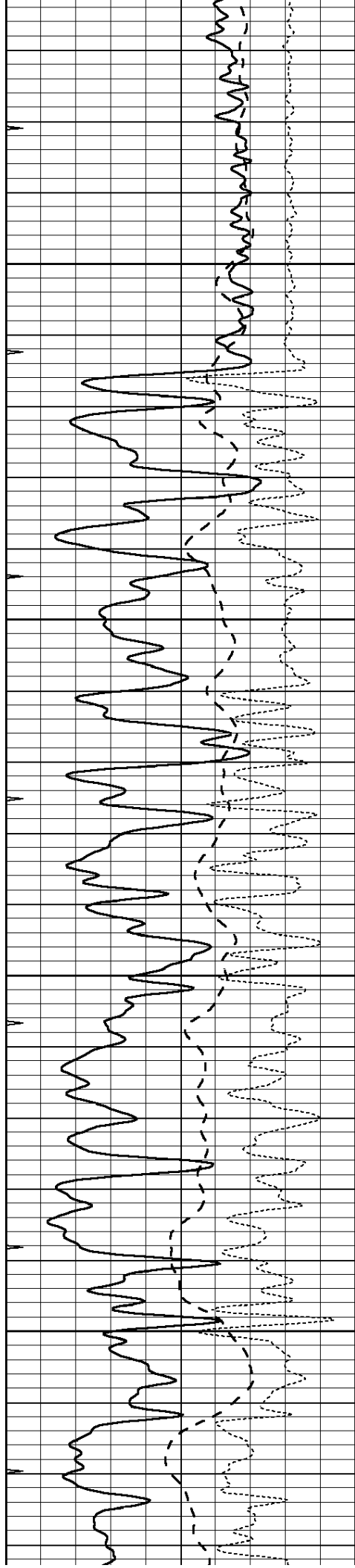
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3250



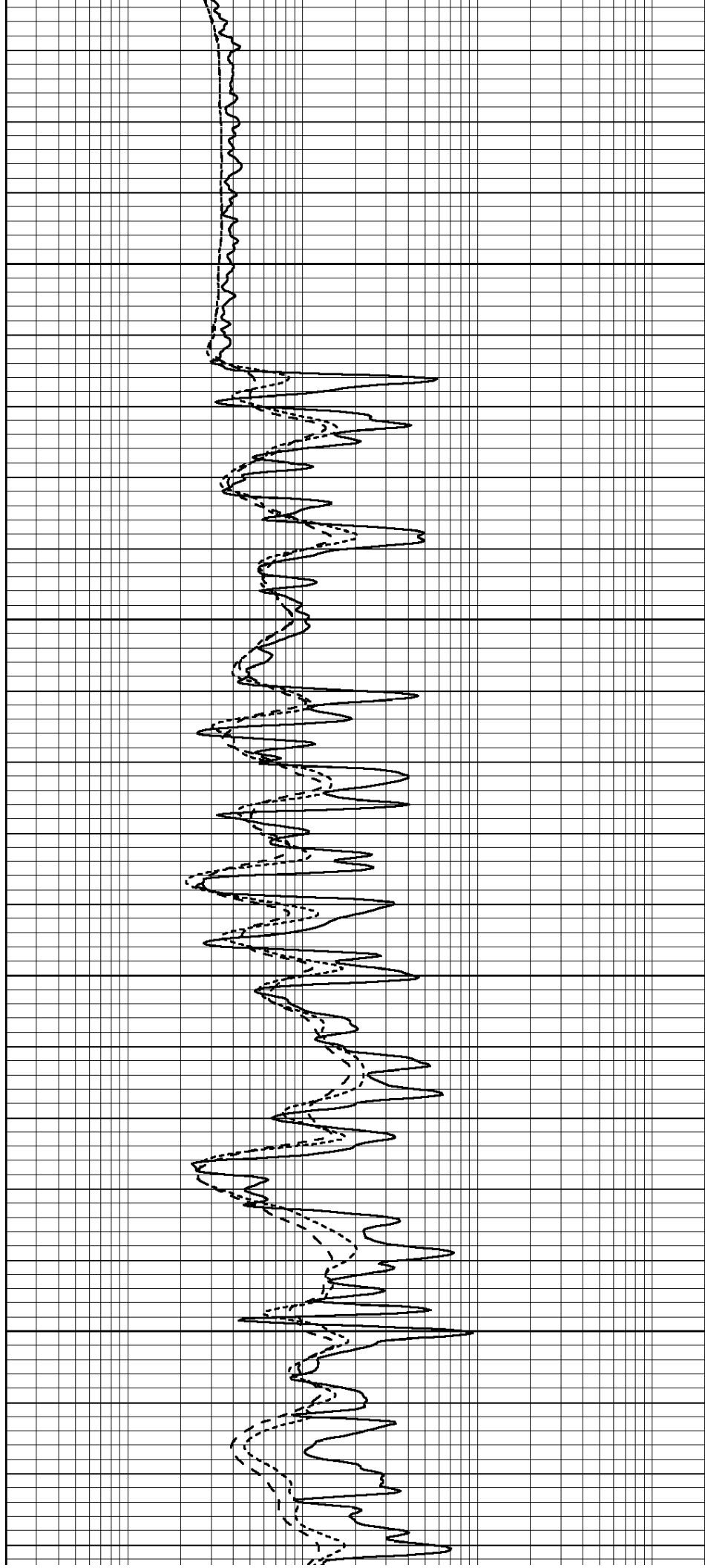


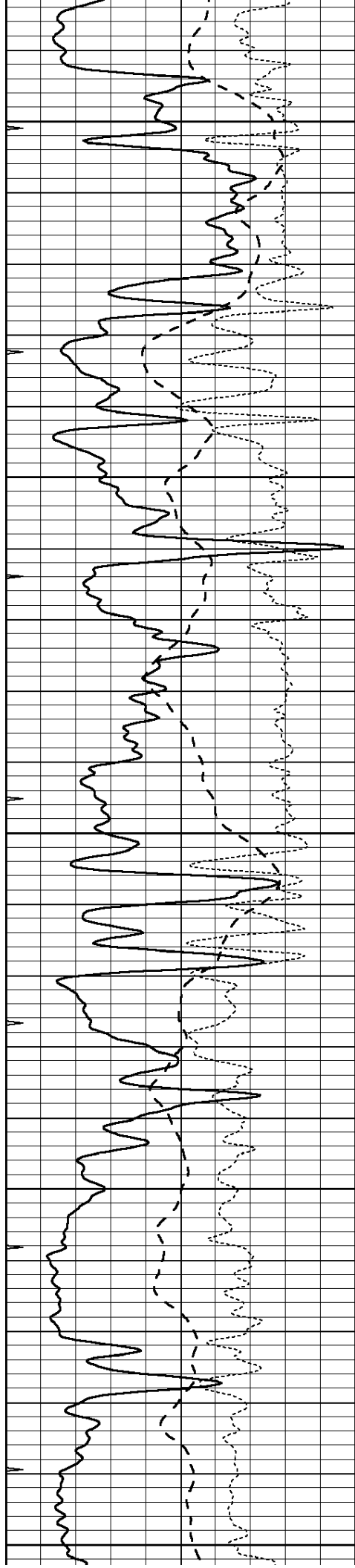
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3450





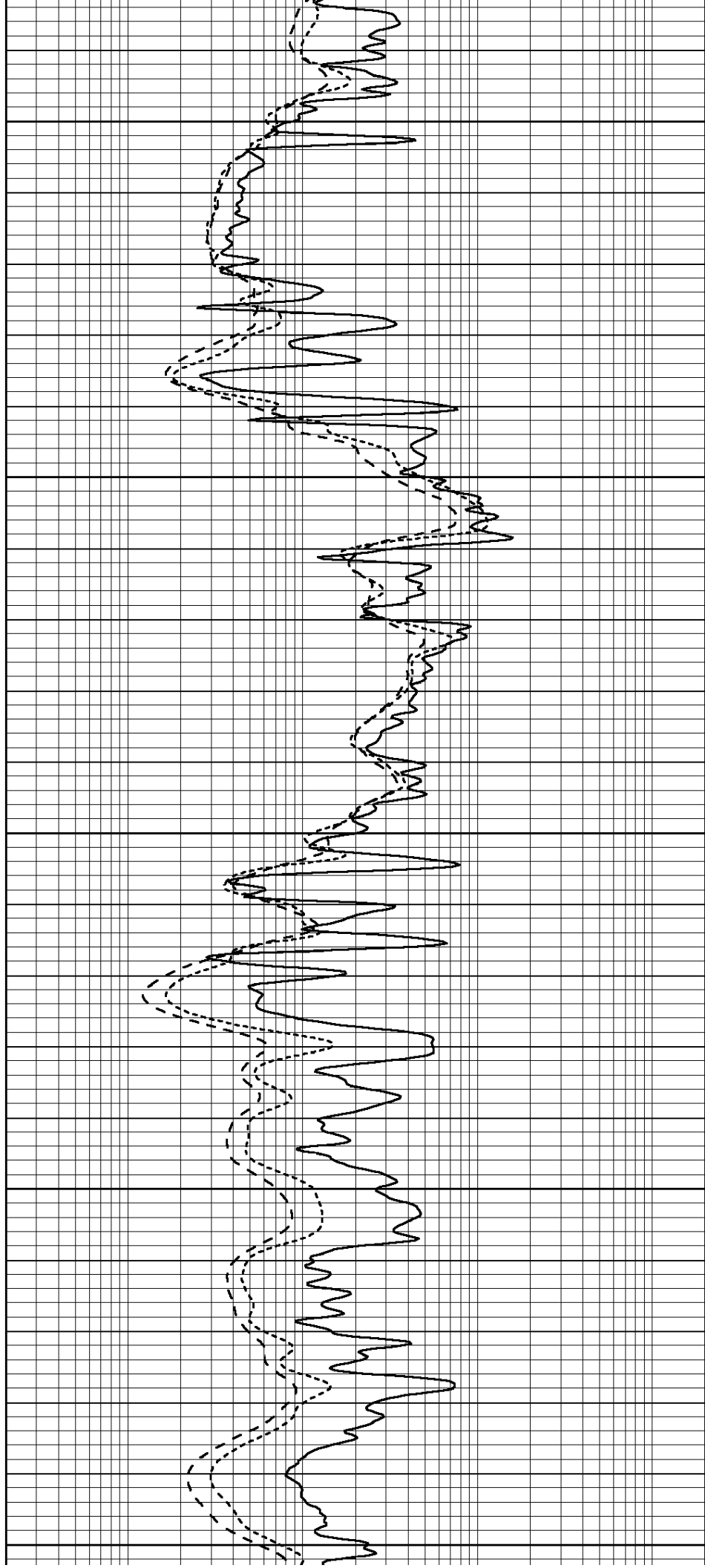
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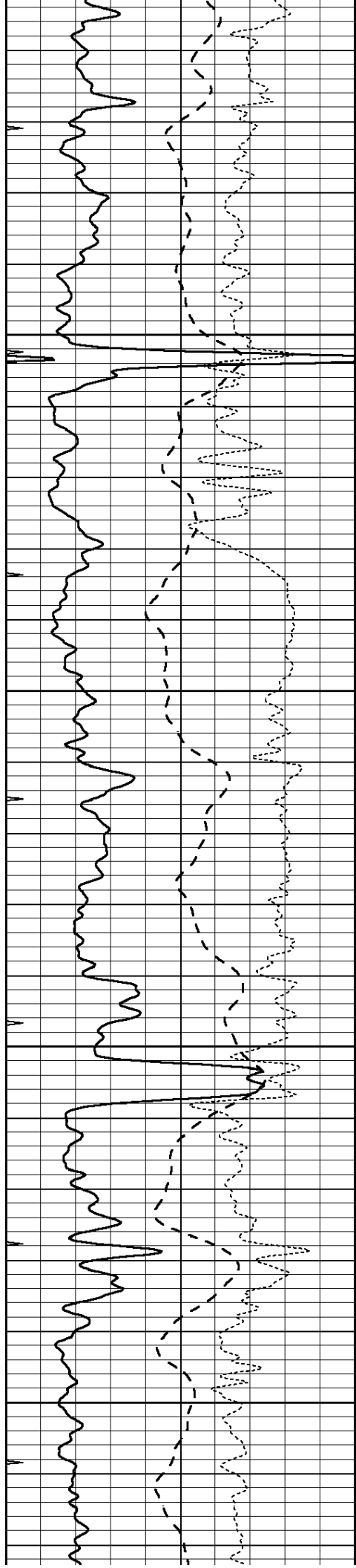
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3600

3650

3700



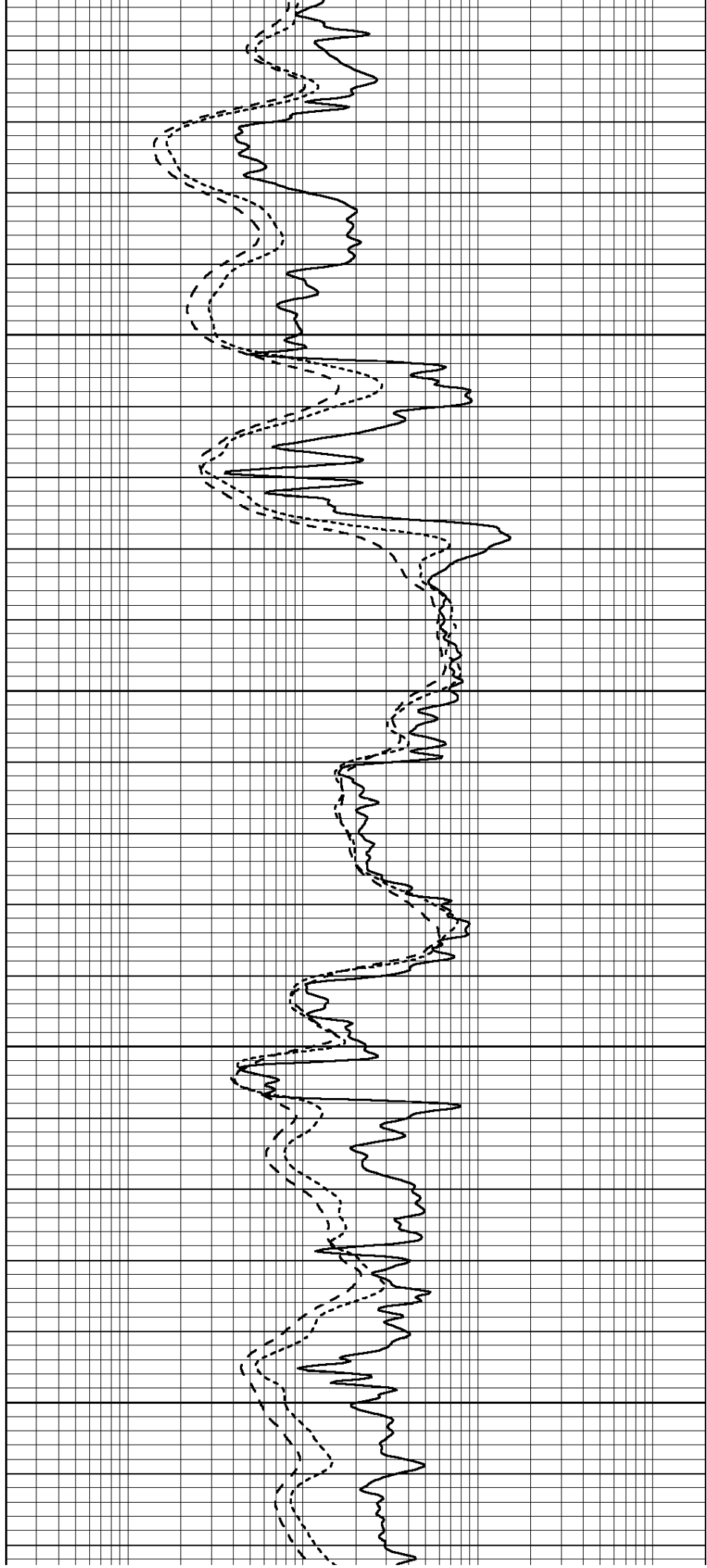


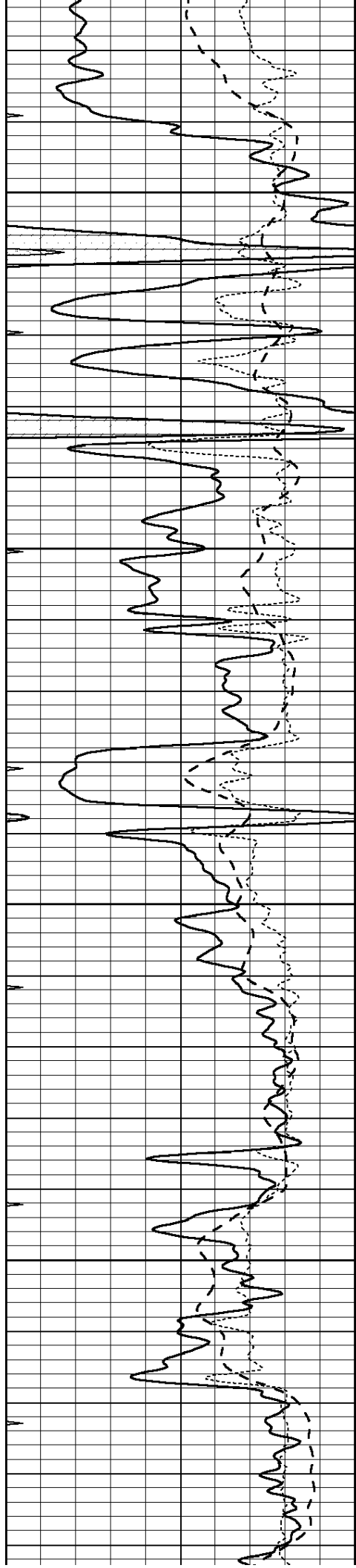
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3900



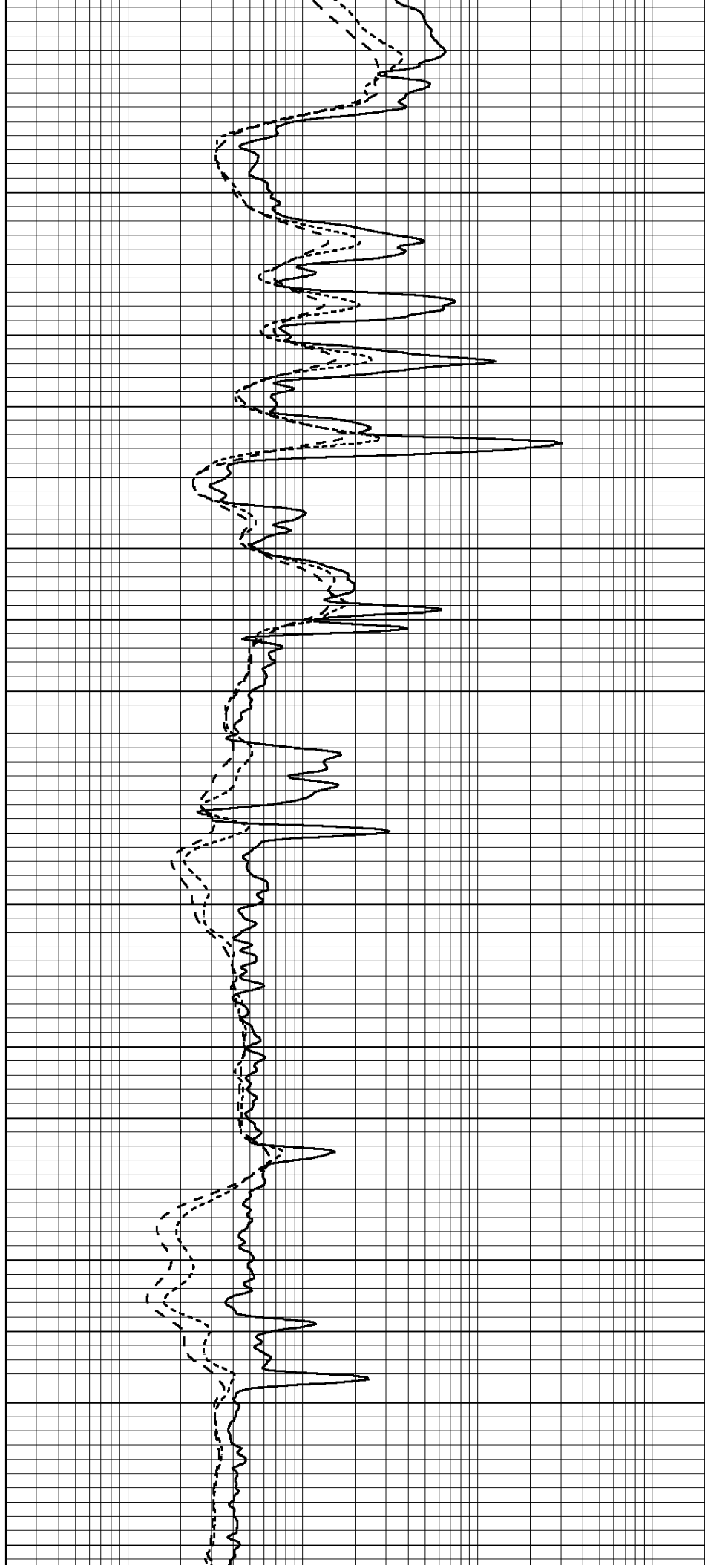


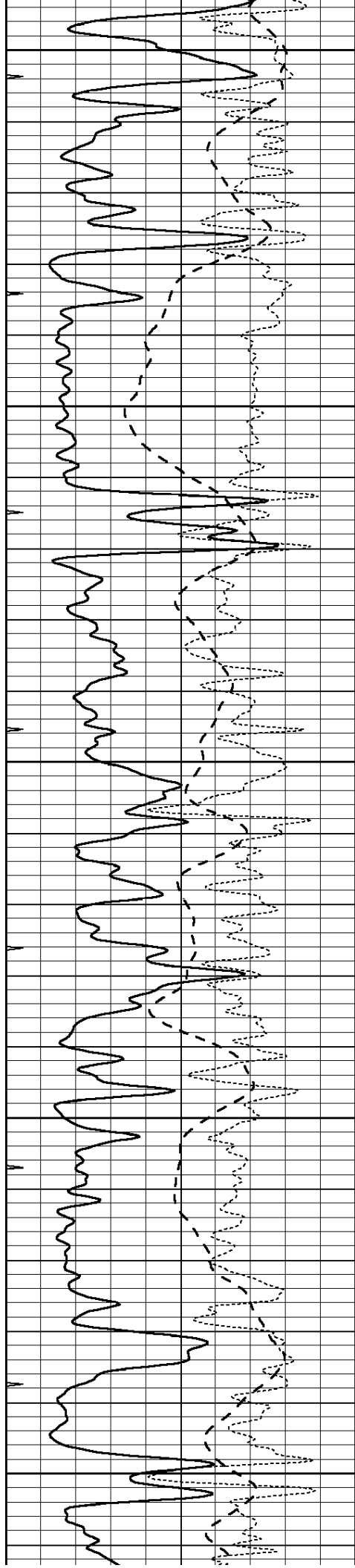
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4000

4050

4100





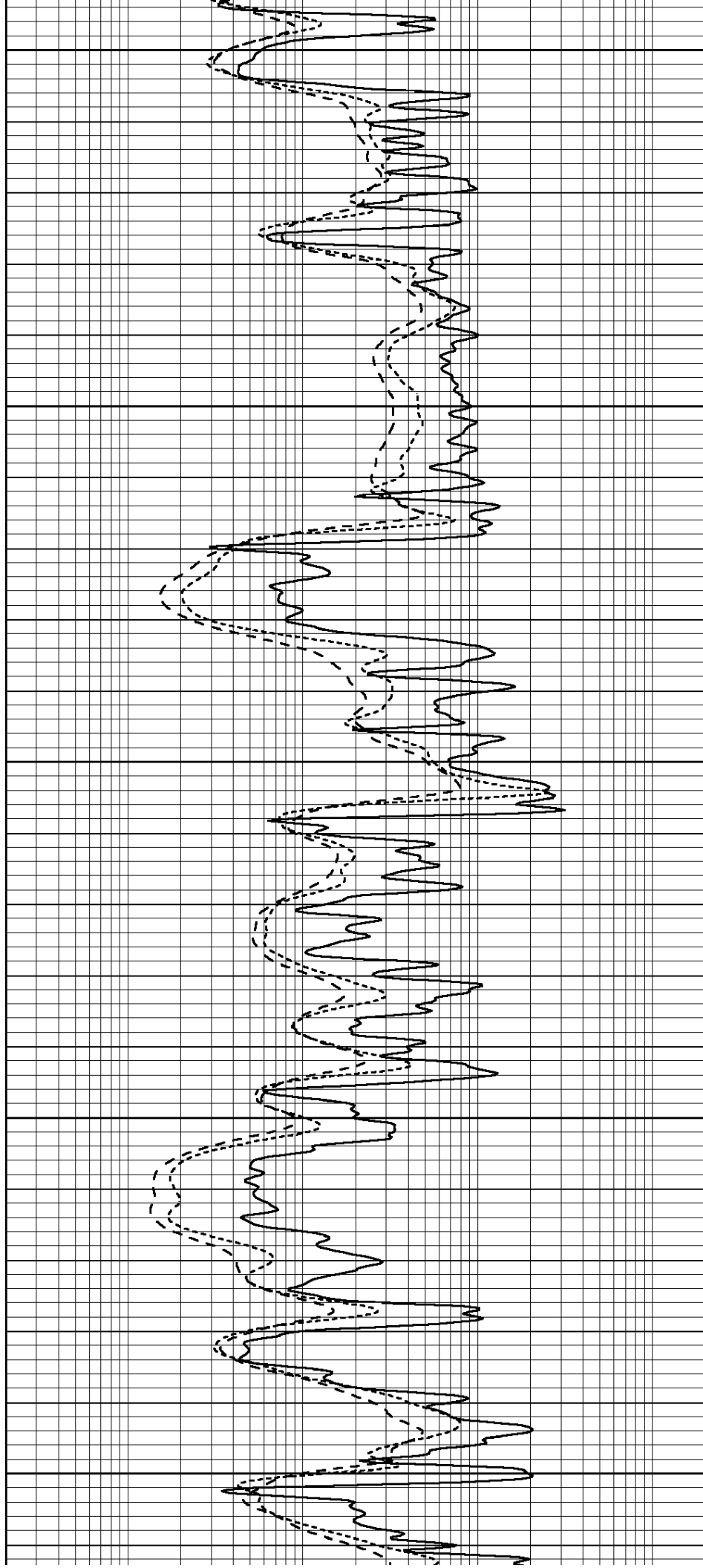
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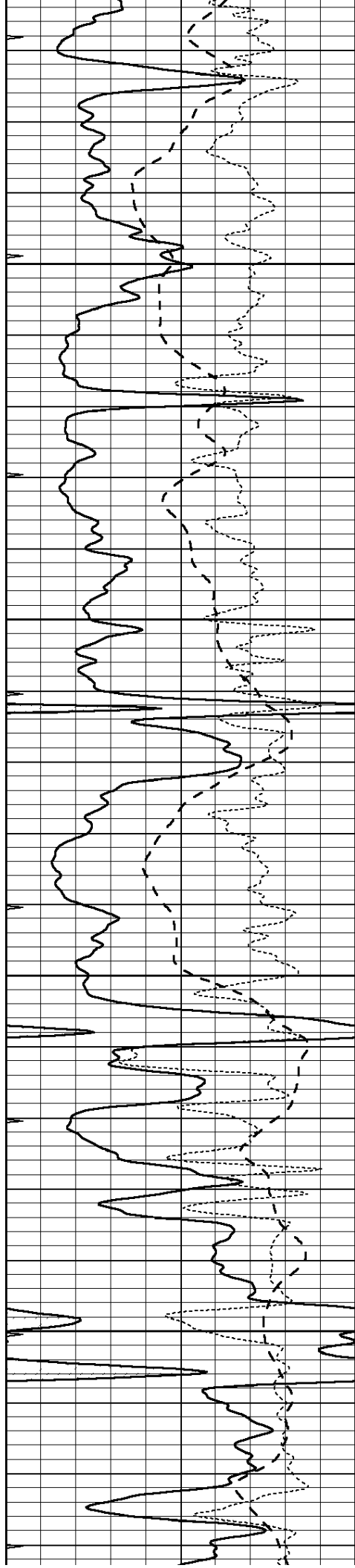
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4350



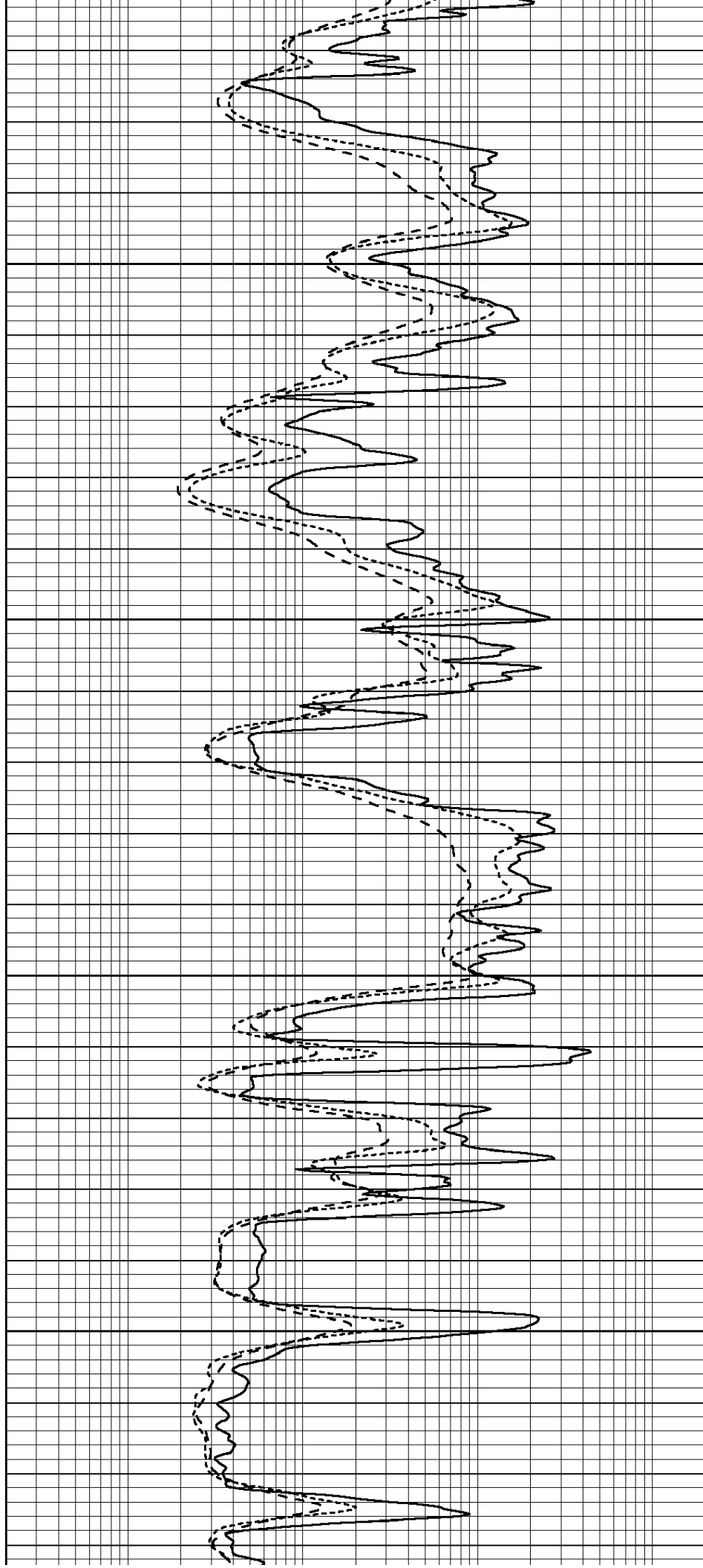


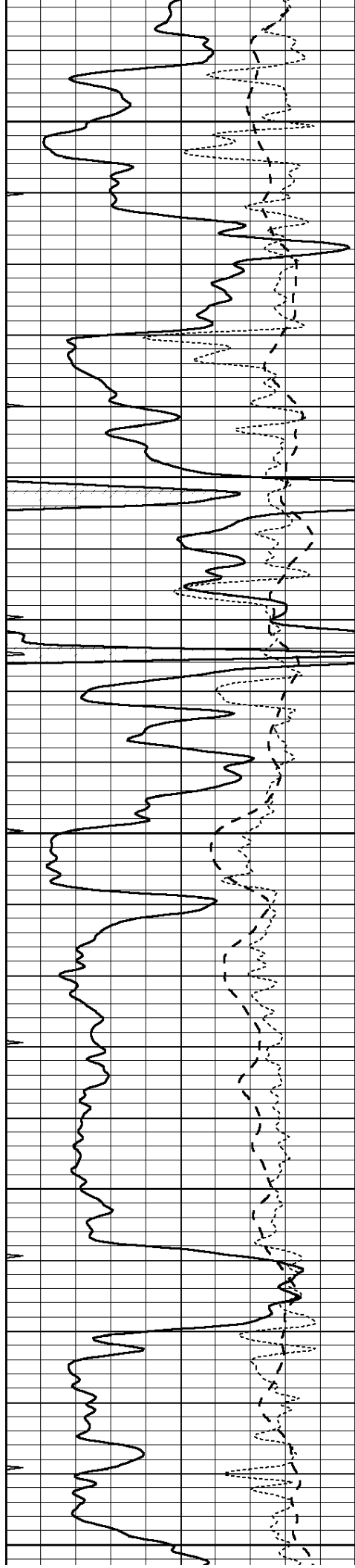
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4500

4550





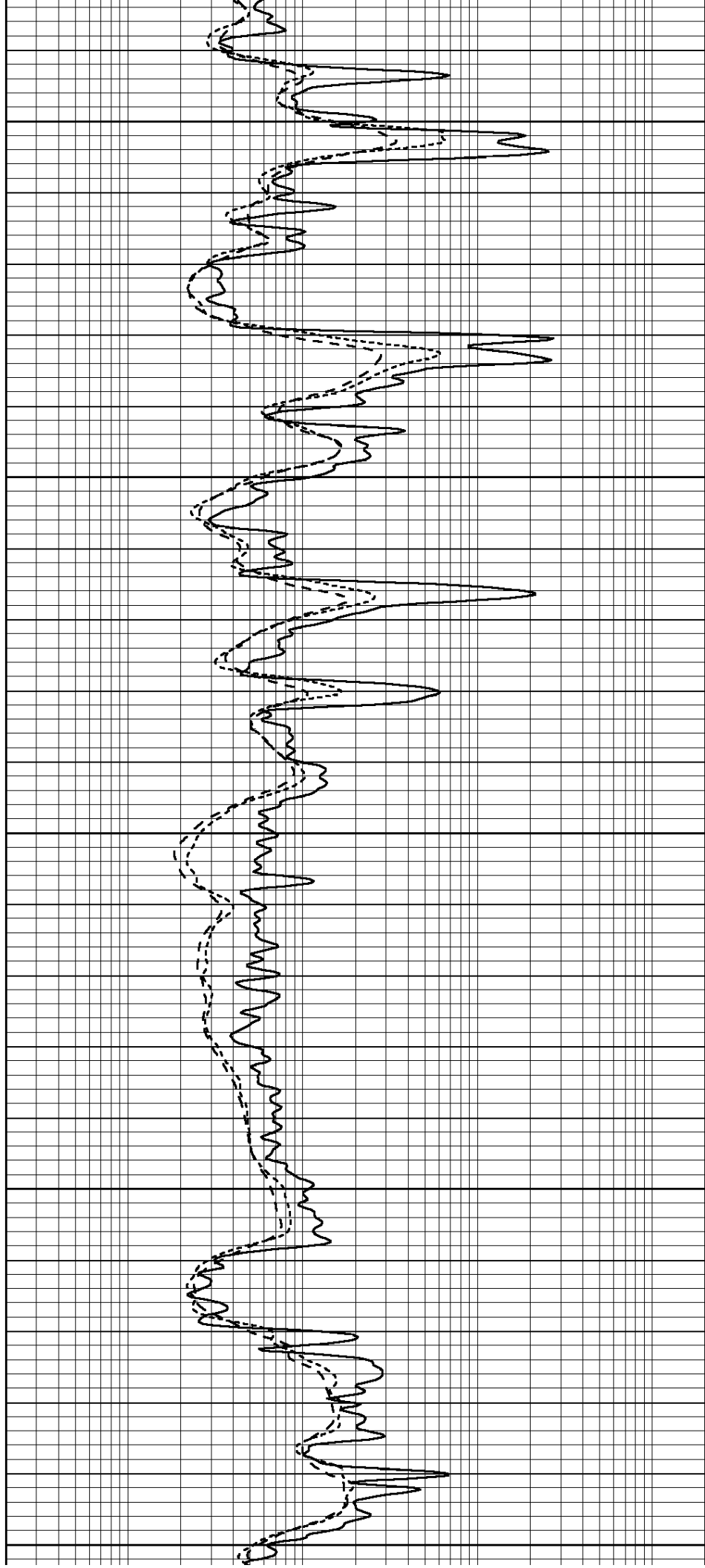
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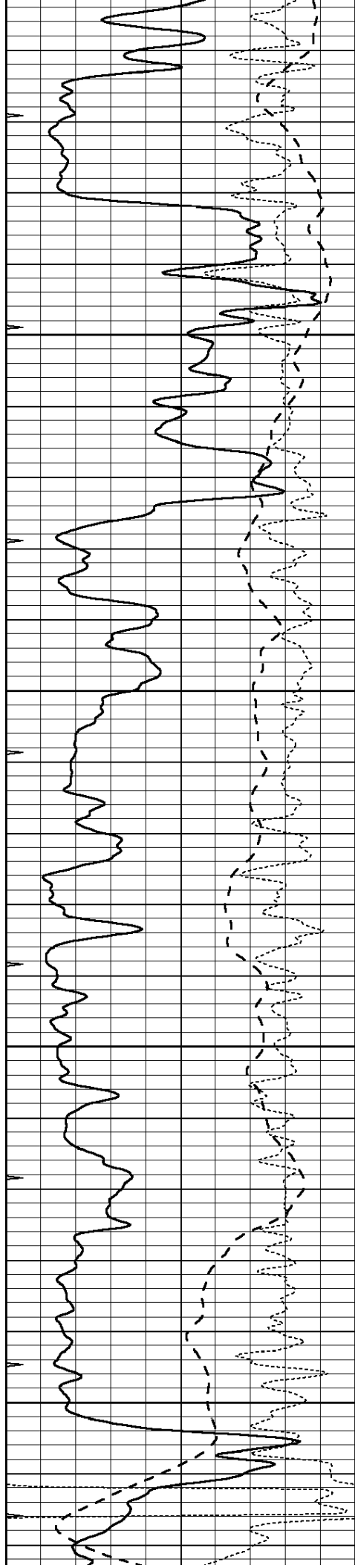
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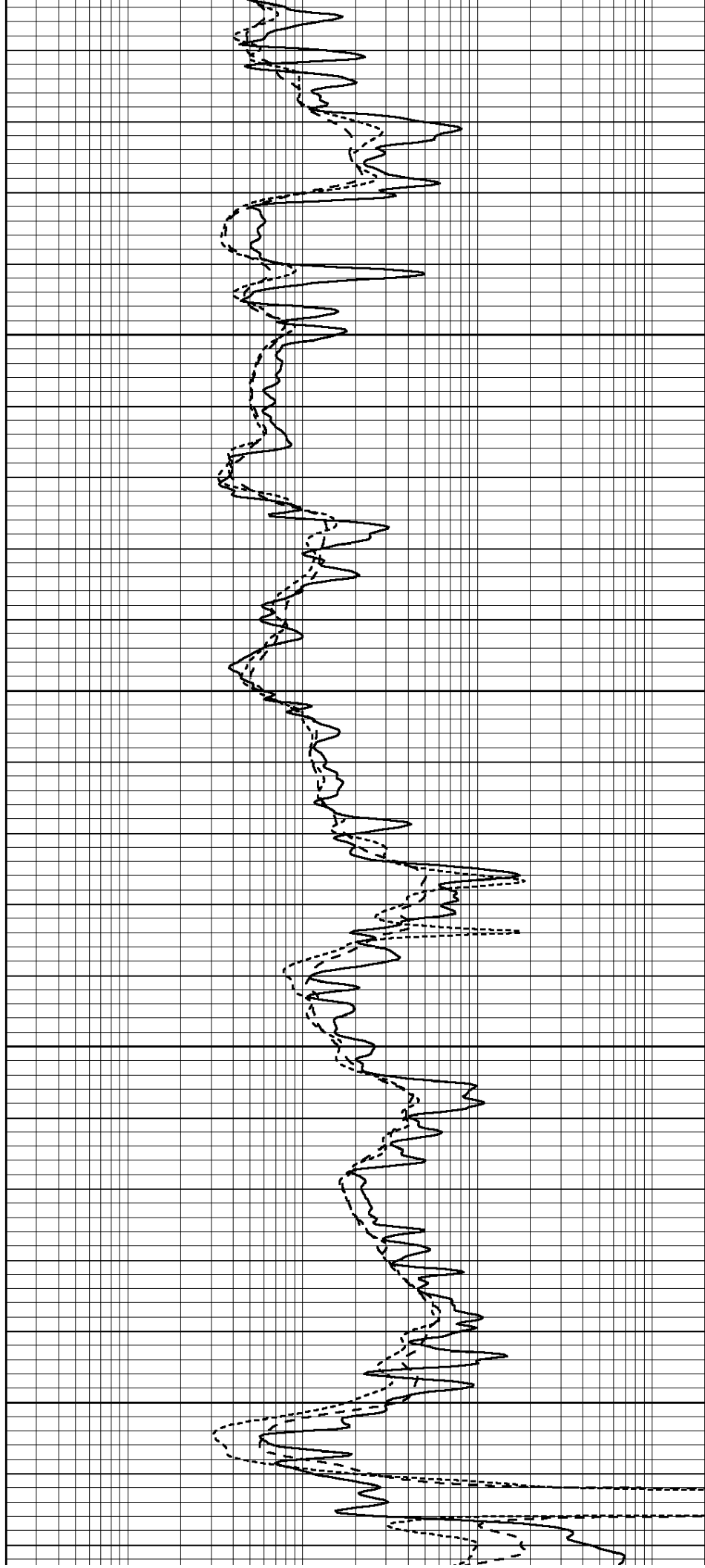


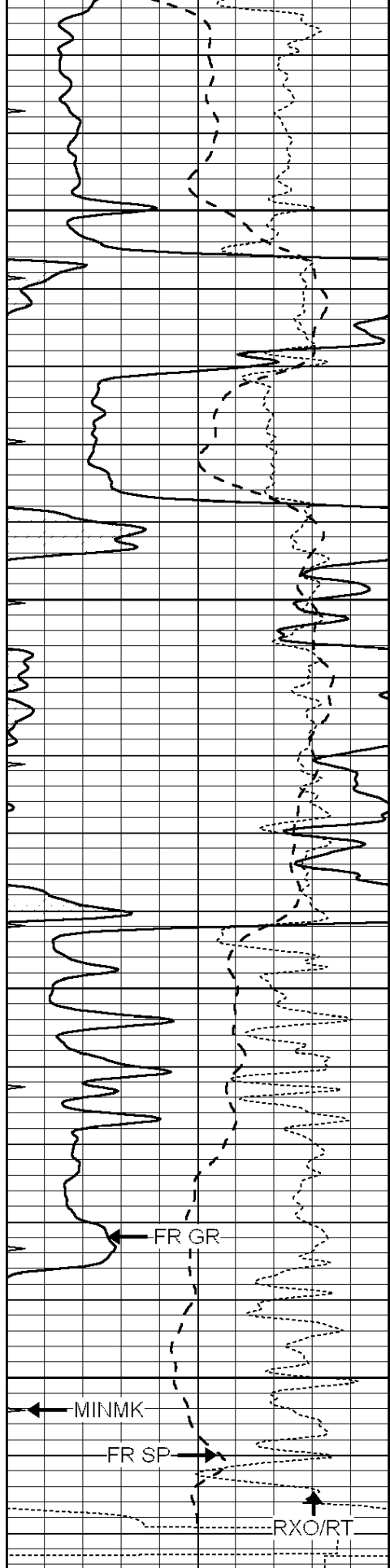
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4950

5000





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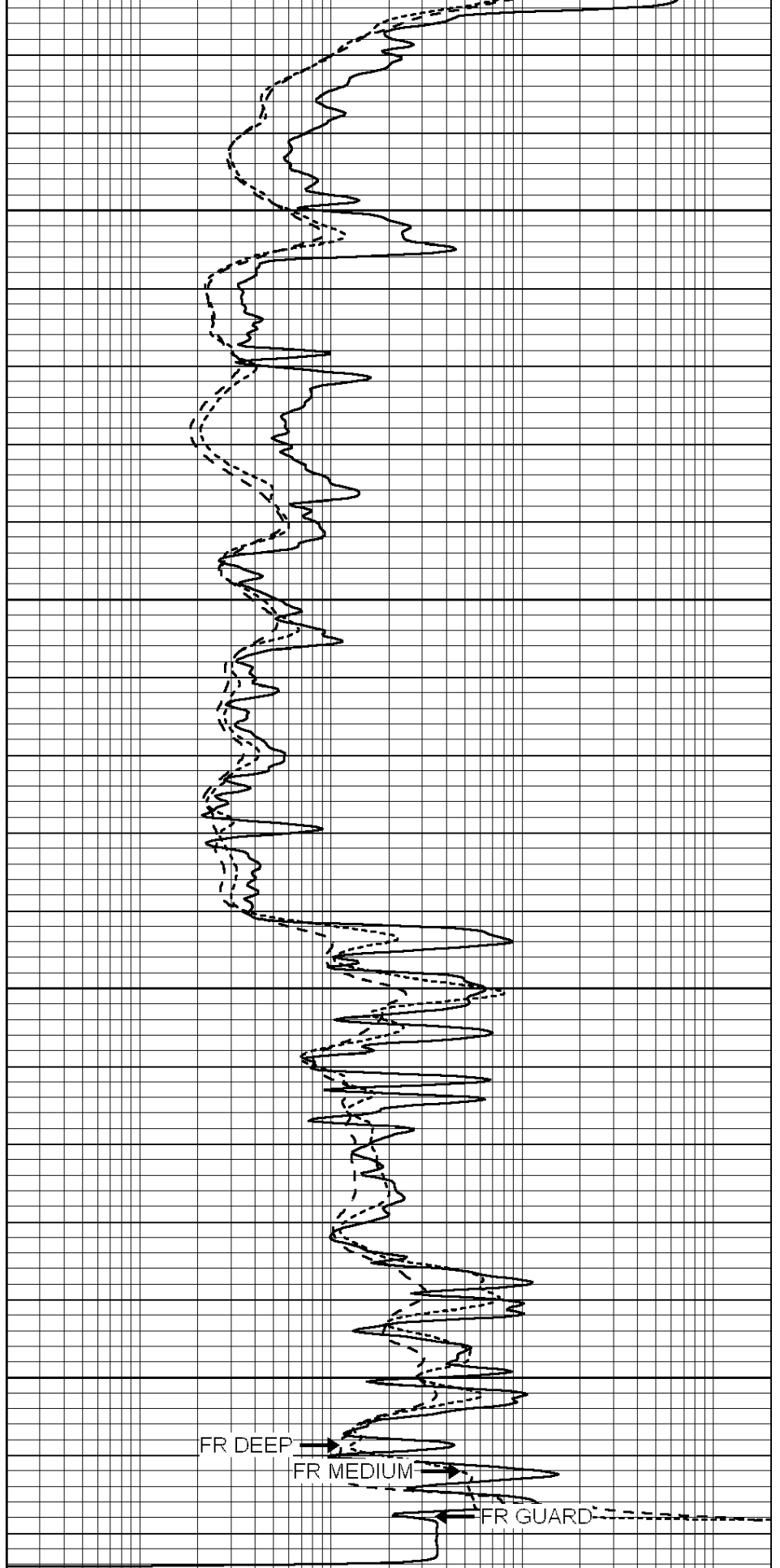
5100

5150

5200

LTD 5220

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20



FR DEEP

FR MEDIUM

FR GUARD

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



NABORS

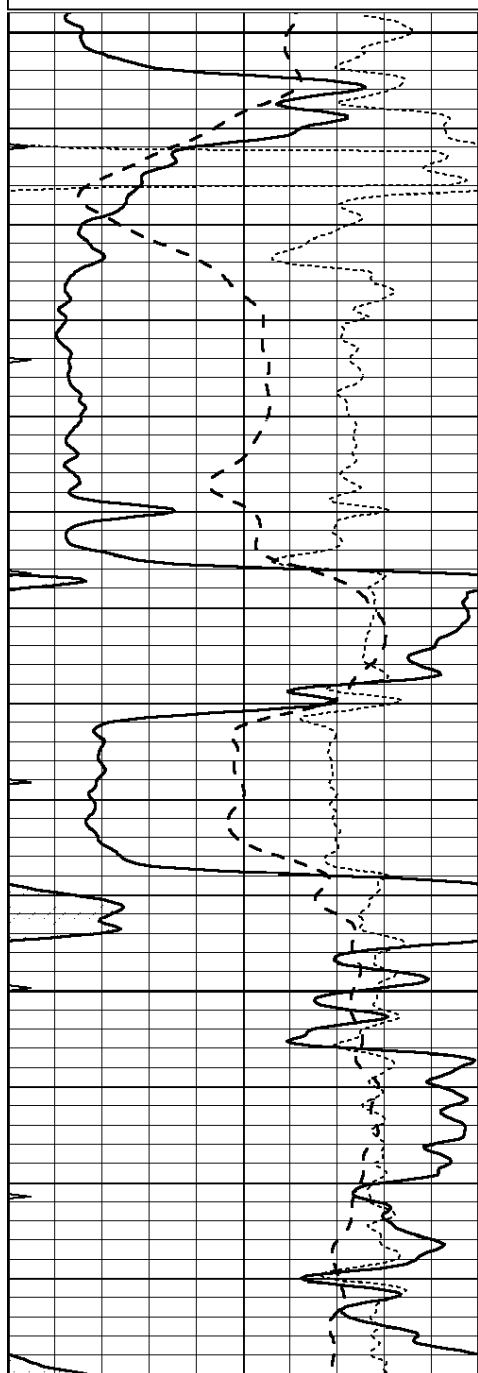
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REPEAT SECTION

Database File: 010045pe.db
Dataset Pathname: pass2.4
Presentation Format: _dil
Dataset Creation: Sun Jan 13 08:06:14 2013 by Calc SOC 120430
Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20

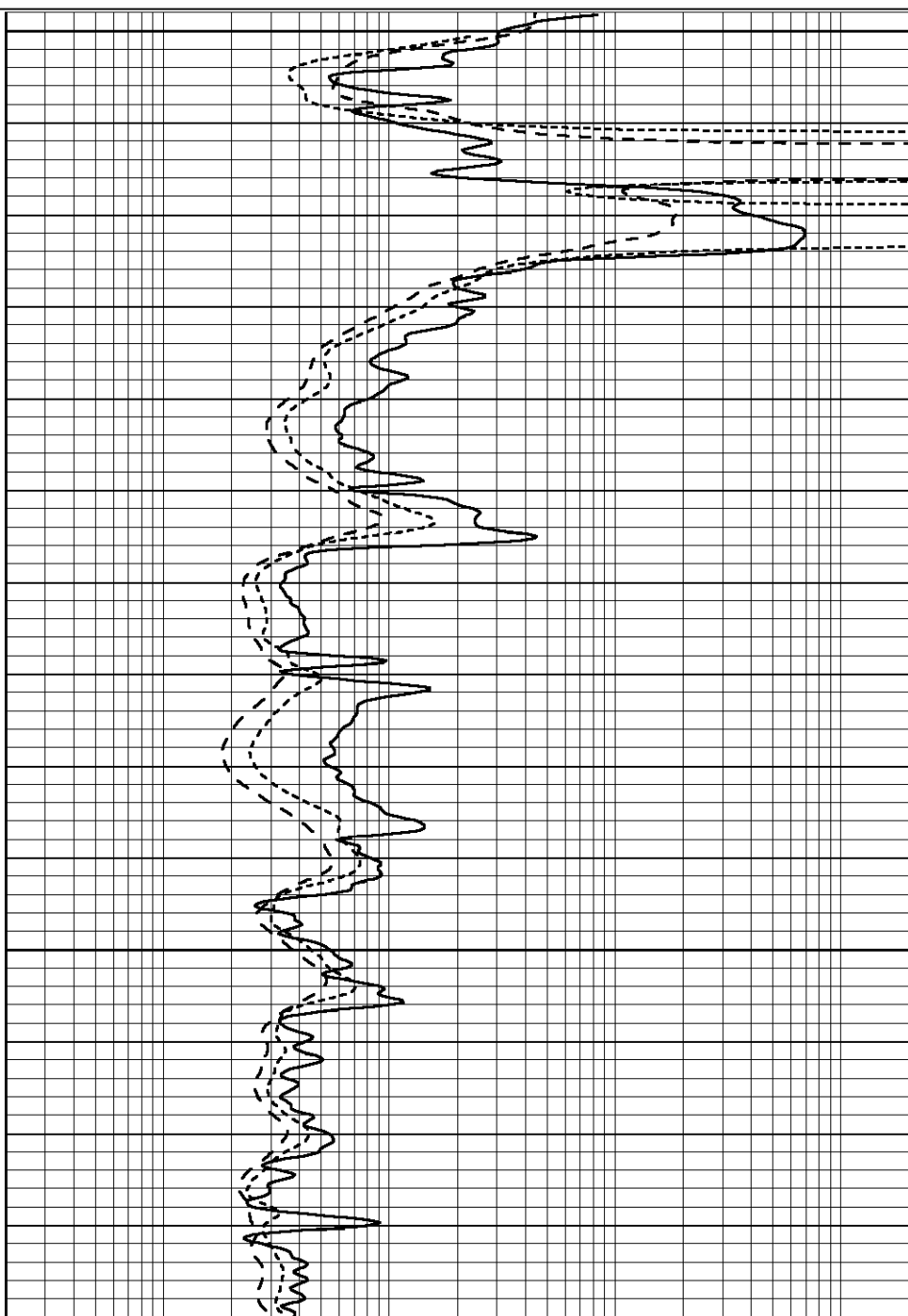
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000

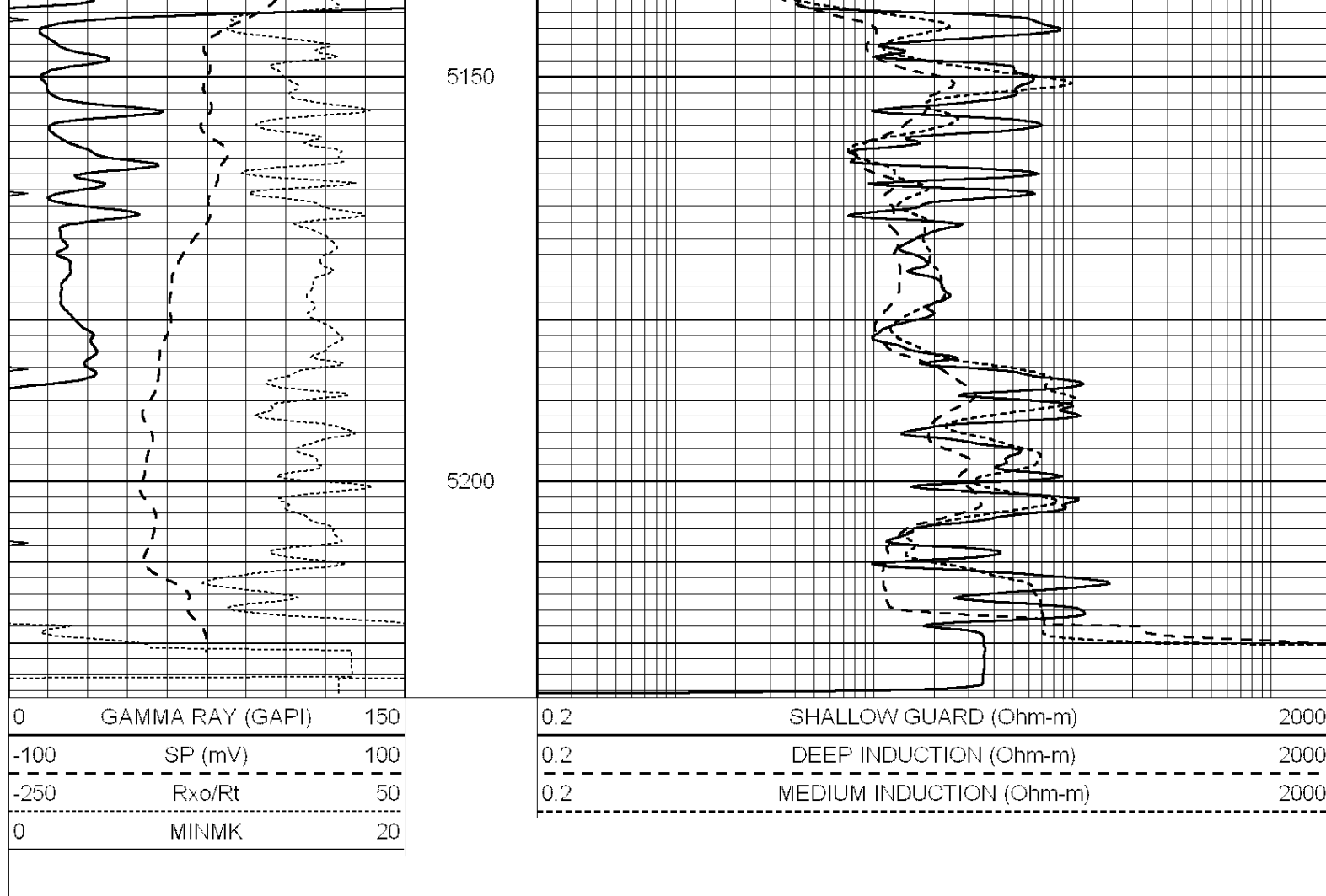


5000

5050

5100





Calibration Report

Database File: 010045pe.db
 Dataset Pathname: pass3.4
 Dataset Creation: Sun Jan 13 08:00:26 2013 by Calc SOC 120430

Dual Induction Calibration Report

Serial-Model: DIL3-GEAR
 Surface Cal Performed: Sun Jan 13 03:52:18 2013
 Downhole Cal Performed: Fri Mar 21 02:34:00 2003
 After Survey Verification Performed: Tue Apr 13 17:49:23 2010

Surface Calibration

Loop:	Readings			References			Results	
	Air	Loop		Air	Loop		m	b
Deep	0.011	0.656	V	0.000	400.000	mmho/m	620.000	8.000
Medium	0.013	0.740	V	0.000	462.500	mmho/m	720.000	-4.000
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

Downhole Calibration

Internal:	Readings			References			Results	
	Zero	Cal		Zero	Cal		m	b

Deep	0.000	1.000	mmho/m	0.000	1.000	mmho/m	1.000	0.000
Medium	0.000	1.000	mmho/m	0.000	1.000	mmho/m	1.000	0.000
Shallow	2.503	0.050	V	500.000	2.000	Ohm-m	240.000	-3.500

After Survey Verification								
Readings			Targets			Results		
Internal:	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	1.000	mmho/m	0.000	1.000	mmho/m	1.000	0.000
Medium	0.000	1.000	mmho/m	0.000	1.000	mmho/m	1.000	0.000
Shallow	0.000	0.000	Ohm-m	500.000	2.000	Ohm-m	1.000	0.000

Litho Density Calibration Report								
Serial: 006			Model: PRB					

Master Calibration			Performed Sun Aug 15 09:48:41 2010					
	Background	Magnesium		Aluminum		Sandstone		
Window 1	1686.6	11612.8		3932.0		12718.8		cps
Window 2	1531.4	9204.7		3267.8		9851.9		cps
Window 3	1198.3	4733.6		1952.5		4920.6		cps
Window 4	317.3	321.2		325.9		303.6		cps
Long Space	0.0	7673.3		1736.4		8320.4		cps
Short Space	1.7	2548.5		1657.2		2628.8		cps
Rho		1.7100		2.5900		1.3800		g/cc
Pe		0.0000		2.5700		1.5500		
Rib Angle	: 43.8	Rib Slope	: 0.961	Density/Spine Ratio			: 0.569	
Spine Angle	: 73.8	Spine Slope	: 3.453	Spine Intercept			: -18.1	

Before Survey Verification			Performed Wed Dec 31 18:00:00 1969					
Window 1	0.0	0.0		0.0		0.0		cps
Window 2	0.0	0.0		0.0		0.0		cps
Window 3	0.0	0.0		0.0		0.0		cps
Window 4	0.0	0.0		0.0		0.0		cps
Long Space	0.0	0.0		0.0		0.0		cps
Short Space	0.0	0.0		0.0		0.0		cps
Measured Rho		0.0000		0.0000		0.0000		g/cc
Measured Correction		0.0000		0.0000		0.0000		g/cc
Measured Pe				0.0000		0.0000		

After Survey Verification			Performed Wed Dec 31 18:00:00 1969					
Window 1	0.0	0.0		0.0		0.0		cps
Window 2	0.0	0.0		0.0		0.0		cps
Window 3	0.0	0.0		0.0		0.0		cps
Window 4	0.0	0.0		0.0		0.0		cps
Long Space	0.0	0.0		0.0		0.0		cps
Short Space	0.0	0.0		0.0		0.0		cps
Measured Rho		0.0000		0.0000		0.0000		g/cc
Measured Correction		0.0000		0.0000		0.0000		g/cc
Measured Pe				0.0000		0.0000		

Compensated Neutron Calibration Report								
Serial Number:			070808					
Tool Model:			Probe					

PRE-SURVEY VERIFICATION			
Detector	Readings	Measured	Target
Short Space	cps		
Long Space	cps	pu	pu
POST-SURVEY VERIFICATION			
Detector	Readings	Measured	Target
Short Space	cps		
Long Space	cps	pu	pu
Gamma Ray Calibration Report			
Serial Number:	070559		
Tool Model:	OPEN_GR		
Performed:	Wed Jan 09 12:24:50 2013		
Calibrator Value:	1.0	GAPI	
Background Reading:	0.0	cps	
Calibrator Reading:	1.0	cps	
Sensitivity:	0.3000	GAPI/cps	