



**COMPLETION
& PRODUCTION
SERVICES CO.**

**DUAL
INDUCTION
LOG**

Company WHITE EXPLORATION, INC.
Well CHAIN RANCH "D" #1-X
Field
County BARBER State KANSAS

Company WHITE EXPLORATION, INC.
Well CHAIN RANCH "D" #1-X
Field
County BARBER
State KANSAS

Location: API #: 15-007-24020-00-00
430' FNL & 1400' FWL
SEC 7 TWP 31S RGE 11W
Permanent Datum GROUND LEVEL Elevation 1644
Log Measured From KELLY BUSHING 10' A.G.L.
Drilling Measured From KELLY BUSHING
Other Services
CDL/CNL/PE
MEL/SON
Elevation
K.B. 1654
D.F. 1652
G.L. 1644

Date	5/10/13		
Run Number	ONE		
Depth Driller	4525		
Depth Logger	4526		
Bottom Logged Interval	4502		
Top Log Interval	3000		
Casing Driller	309		
Casing Logger	308		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 6.000	
Density / Viscosity	9.7 / 47		
pH / Fluid Loss	9.0 / 13.4		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	0.65 @ 79F		
Rmf @ Meas. Temp	0.49 @ 79F		
Rmc @ Meas. Temp	0.78 @ 79F		
Source of Rmf / Rmc	MEASURED		
Rim @ BHT	0.42 @ 121F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	121F		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	JEFF GRONEWEG		
Witnessed By	TOM 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

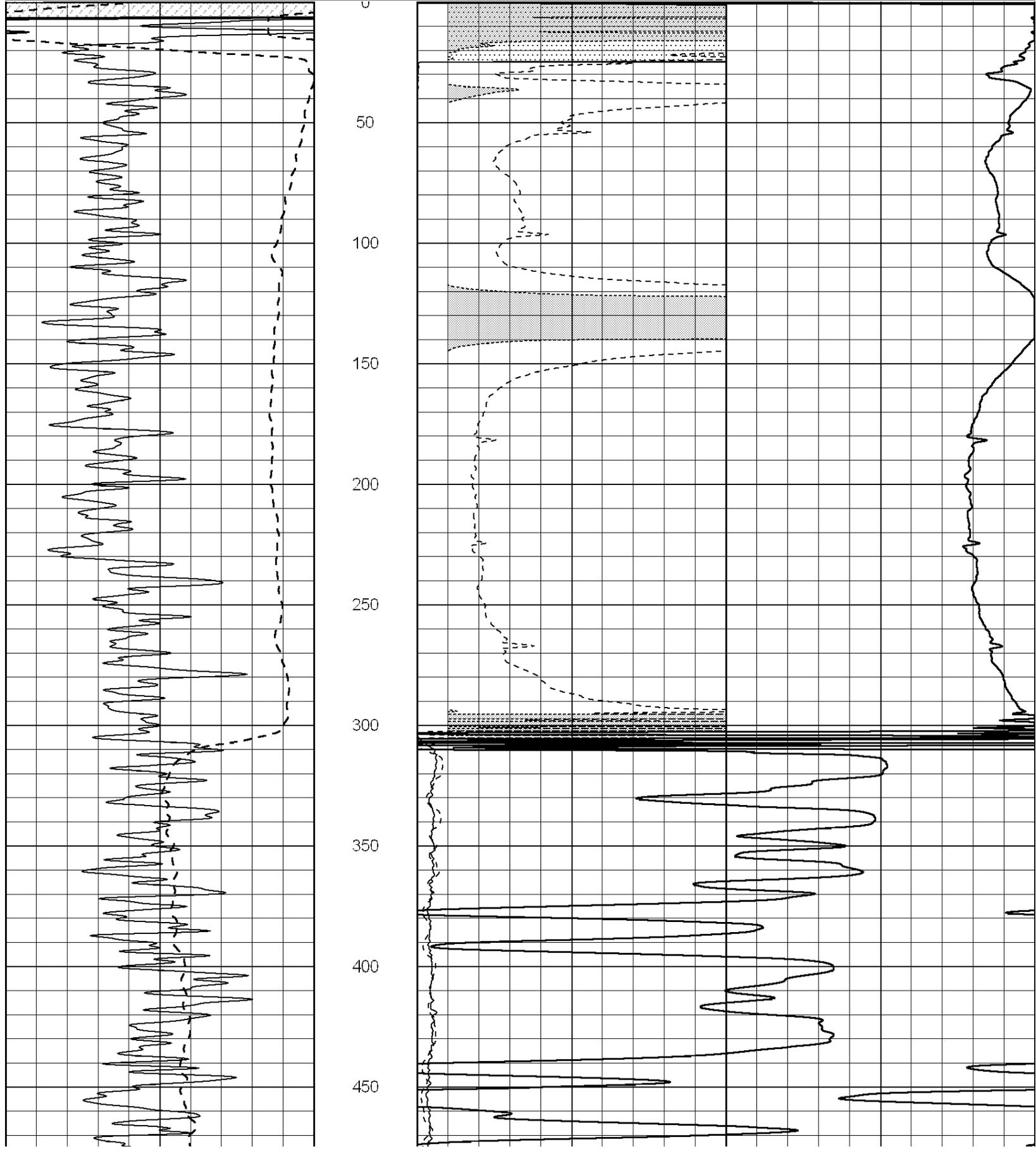
NABORS COMPLETION & PRODUCTION SERVICES

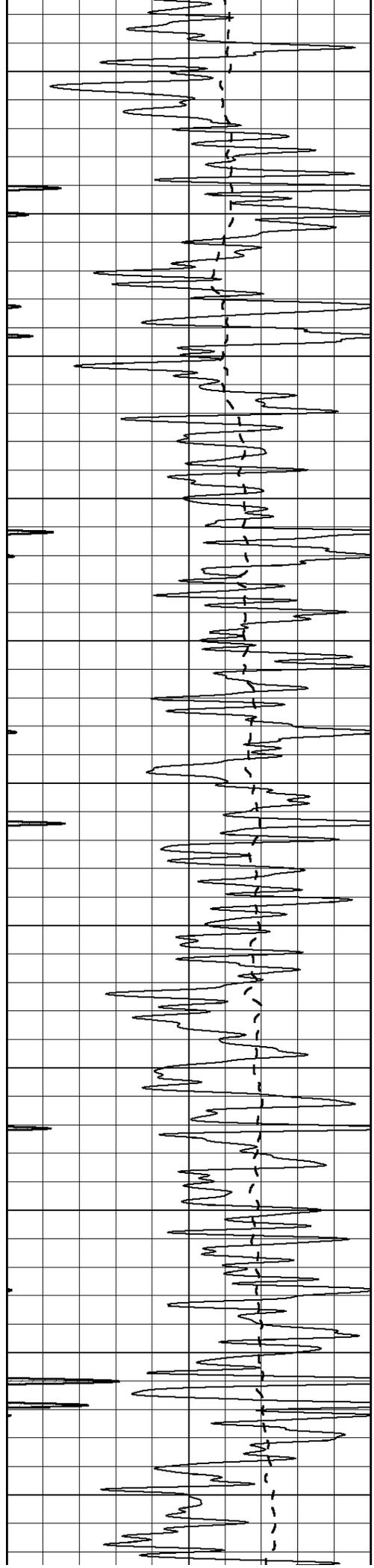
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THANK YOU FOR YOUR BUSINESS

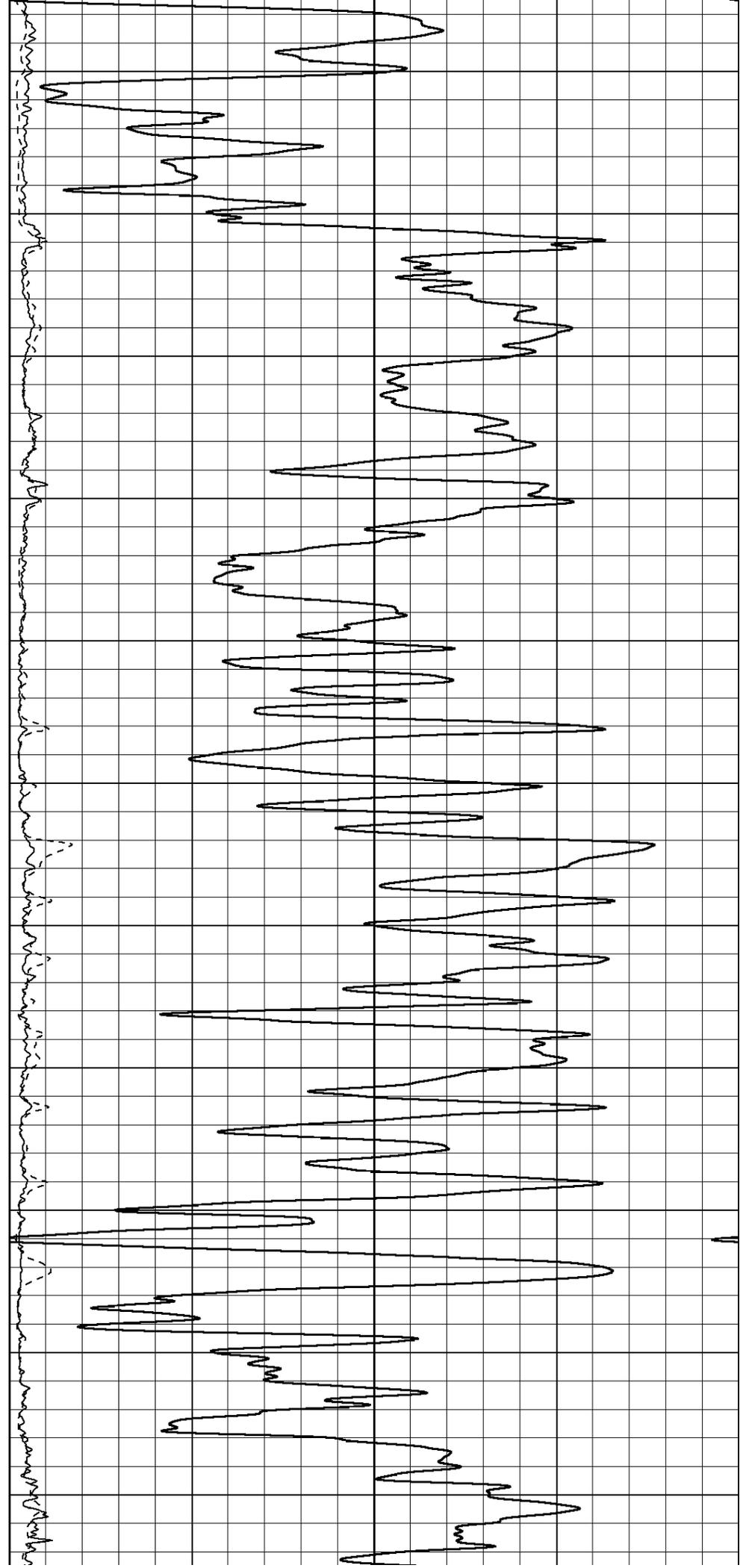
DIRECTIONS: PRATT, KS - 23 MILES SOUTH TO ADLEE RD - 2 MILES EAST TO ISABEL RD
1 1/4 NORTH TO LEASE RD - 2.5 MILES WEST - SOUTH - NORTH - EAST - NORTH - WEST INTO

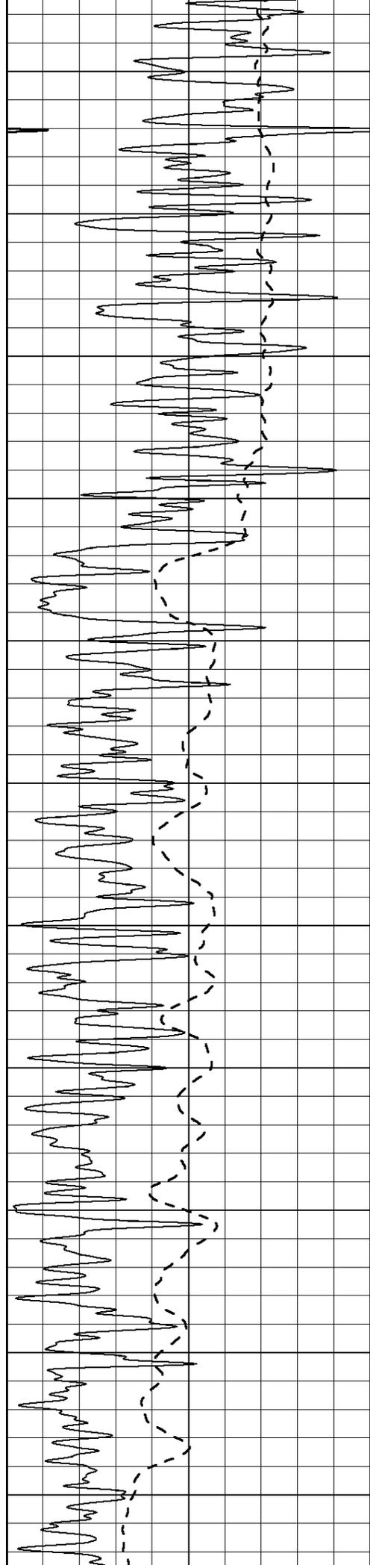
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			0	Deep Induction (Ohm-m)	50
			1000	CILD (mmho/m)	0
			50	RILD X10 (Ohm-m)	500
			50	RLL3 X10 (Ohm-m)	500



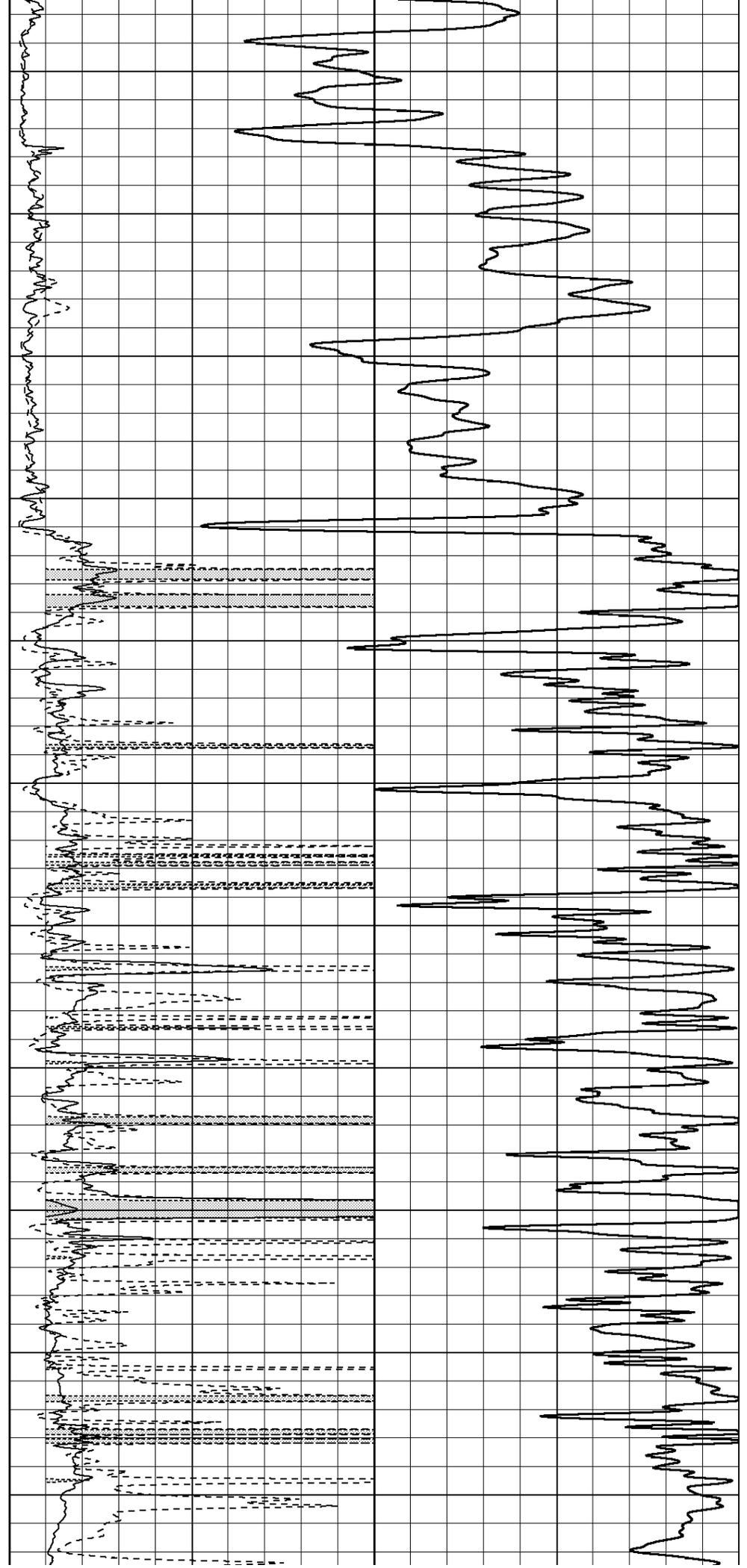


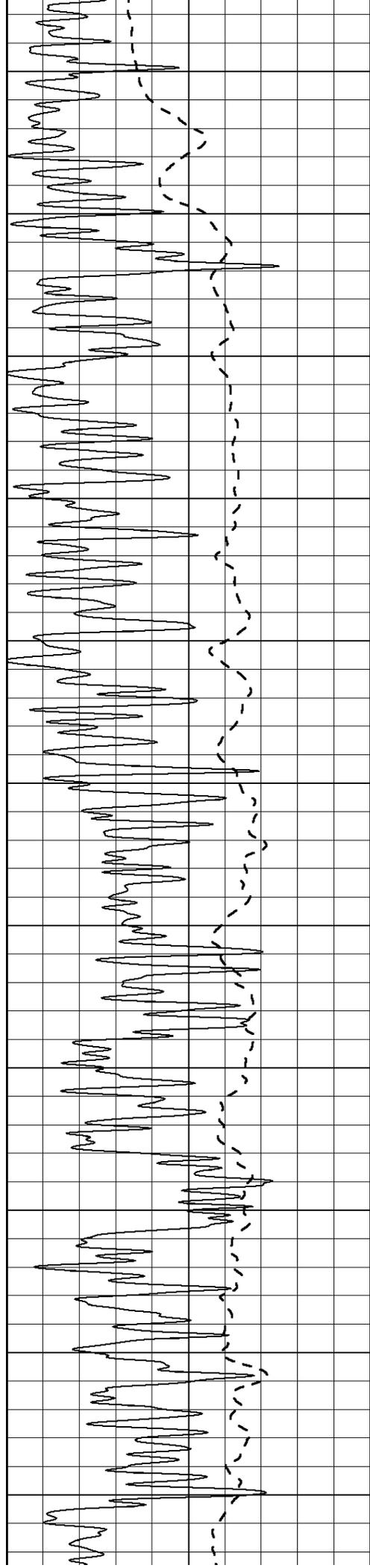
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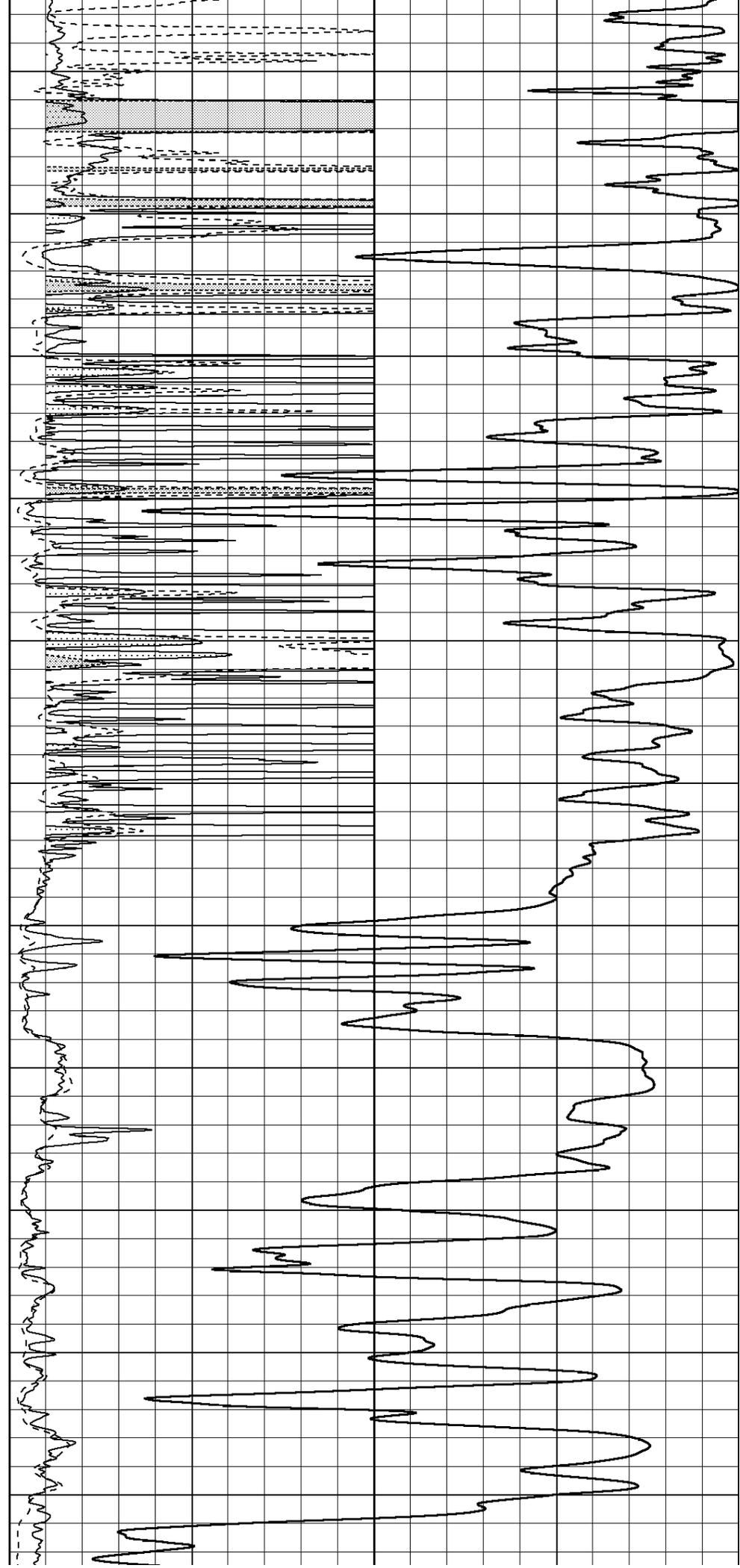


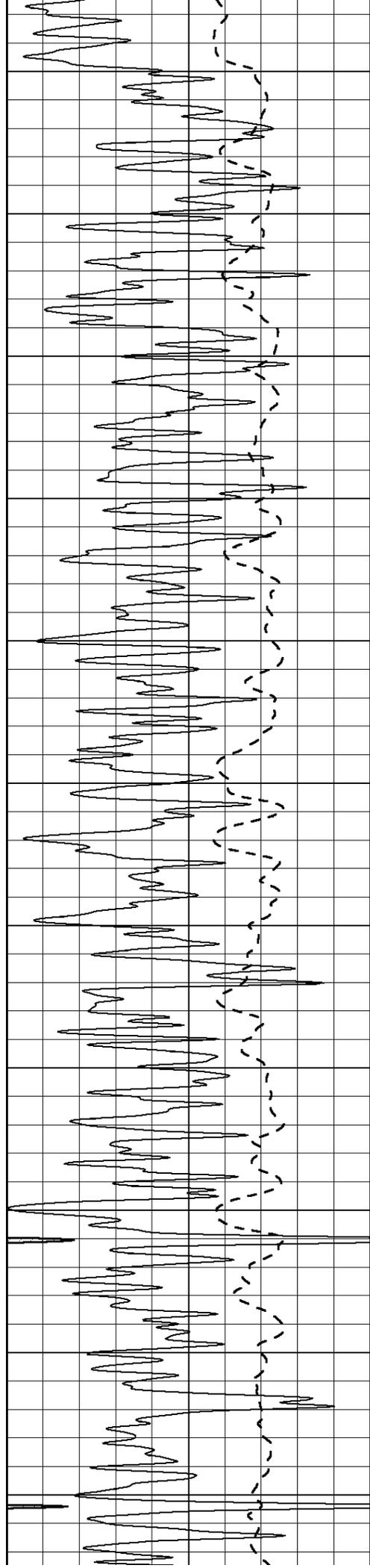
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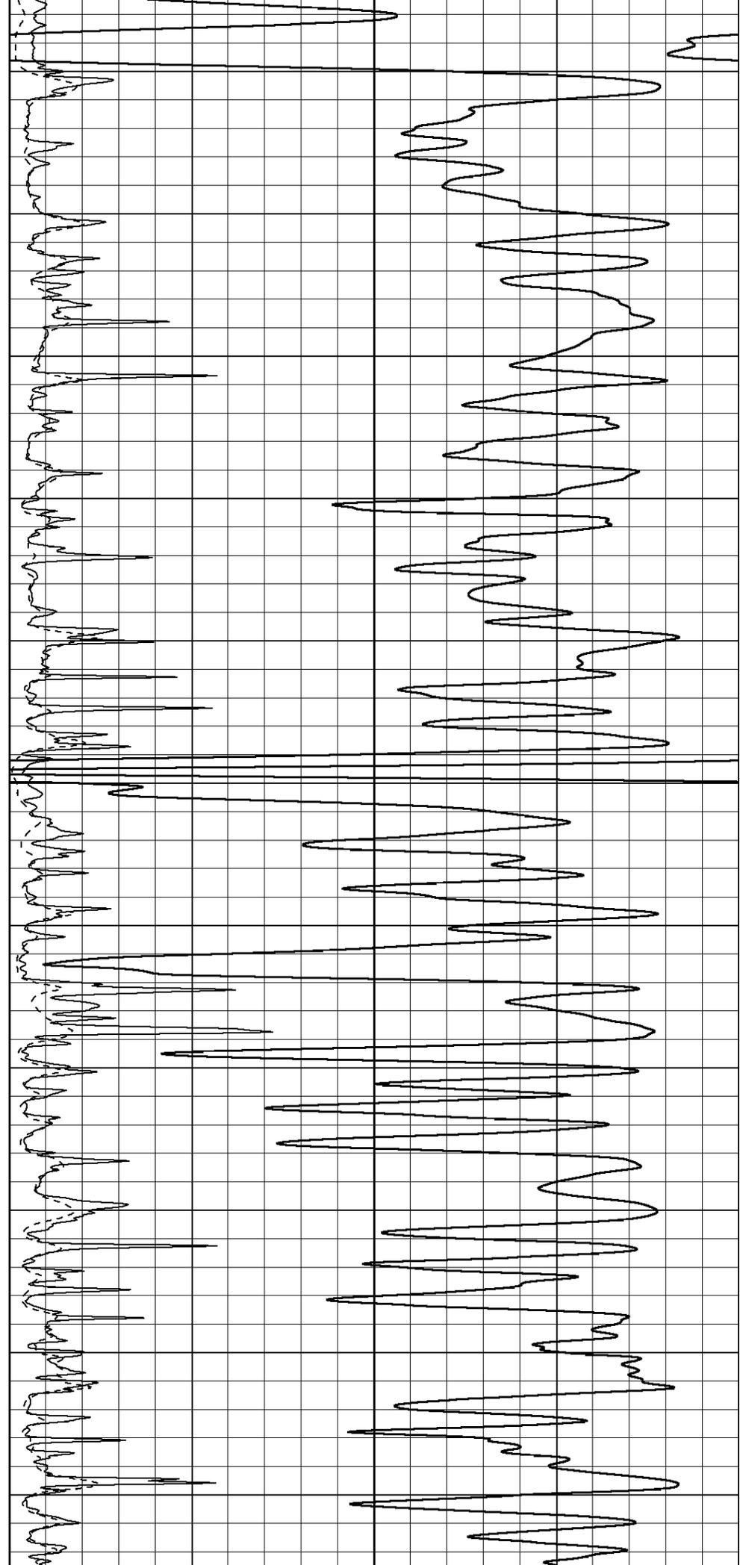
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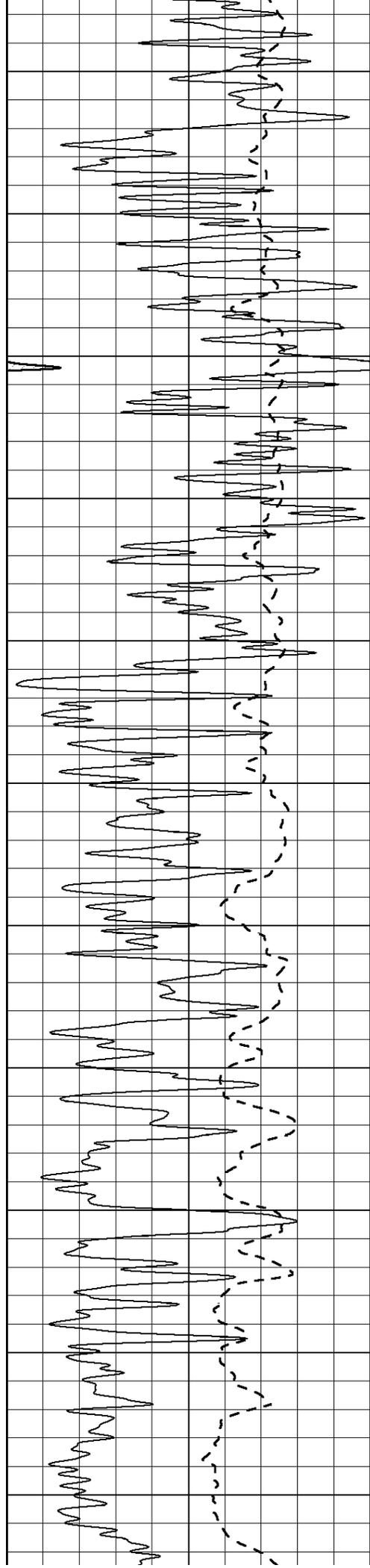
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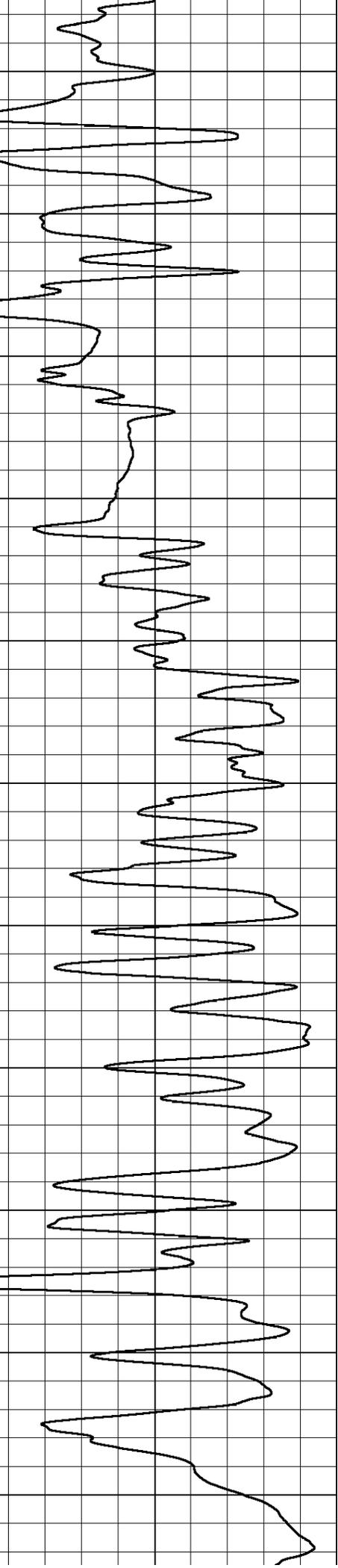
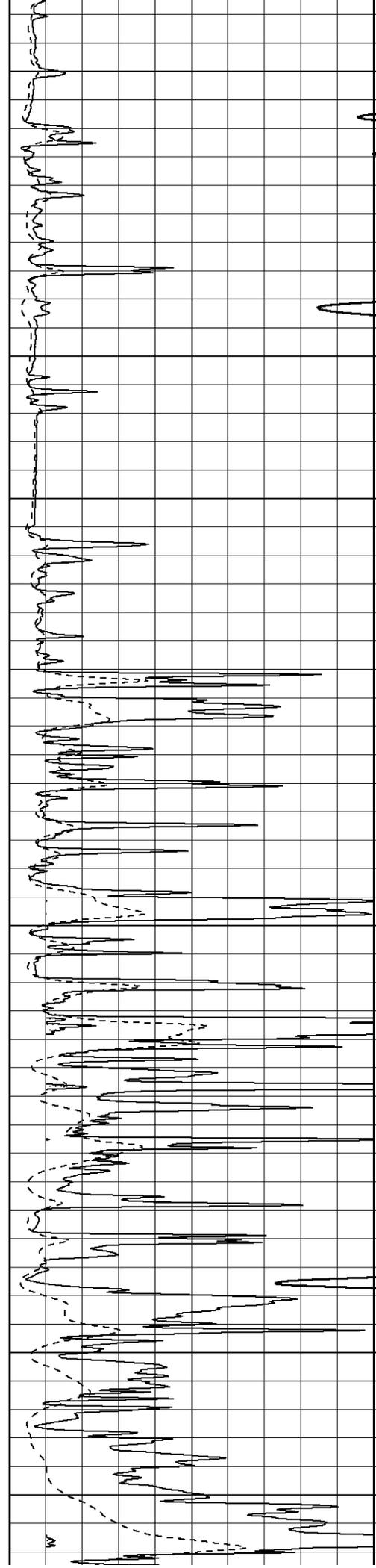
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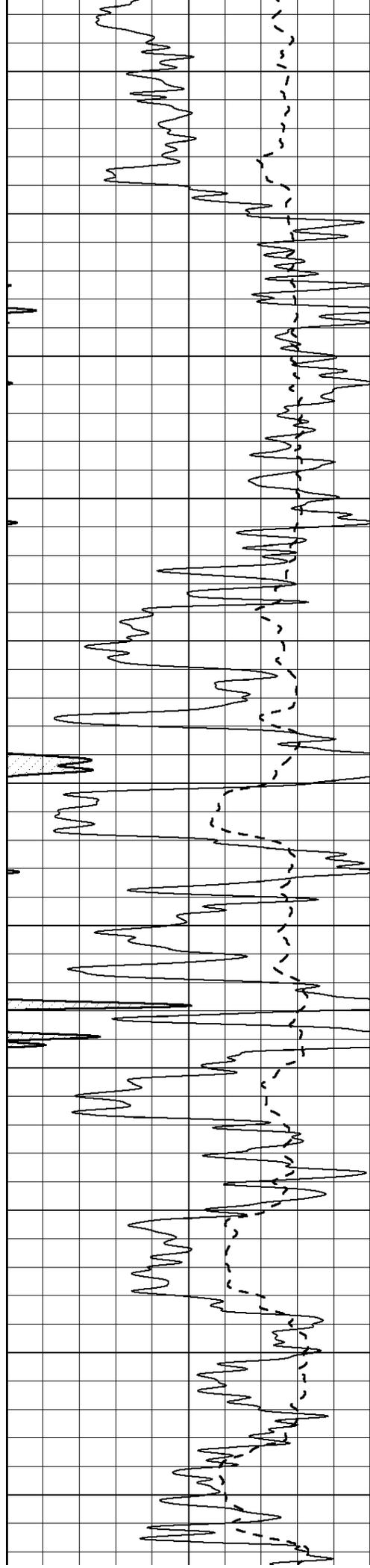
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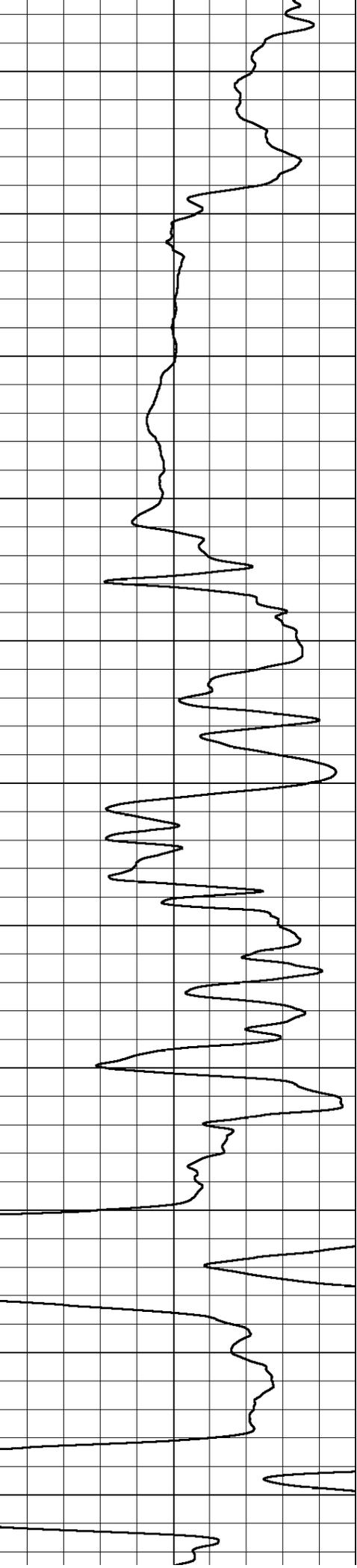
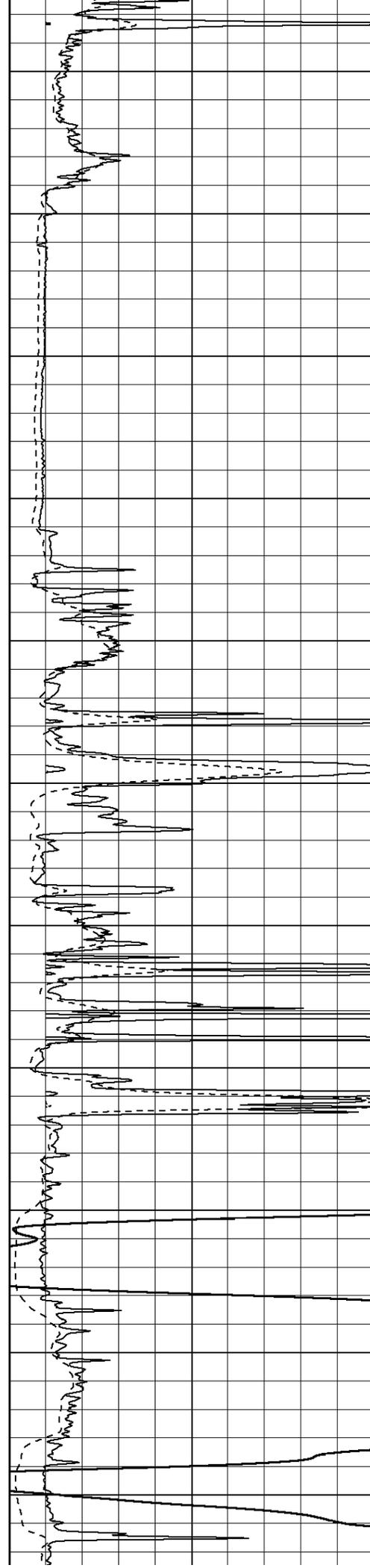


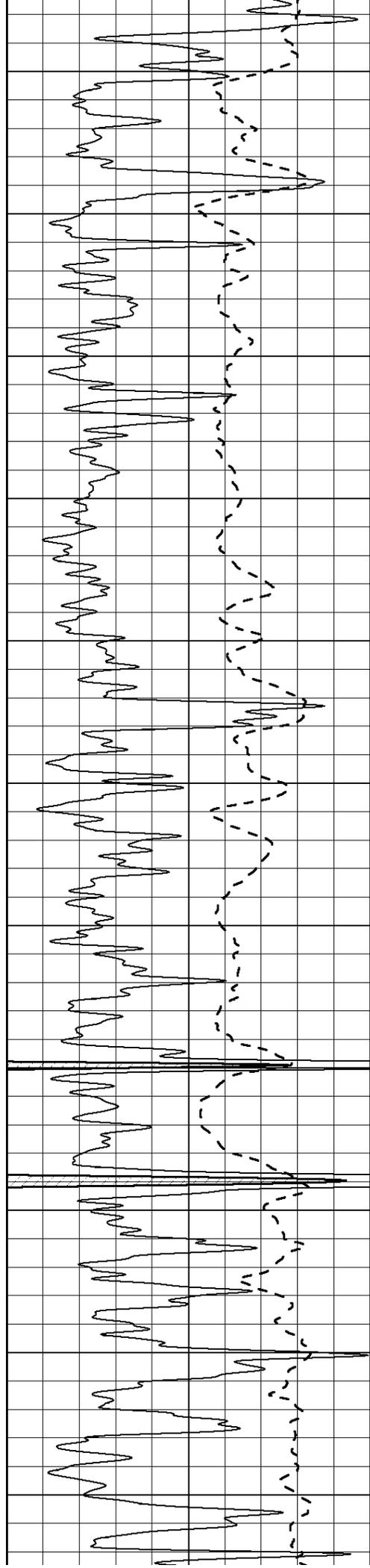
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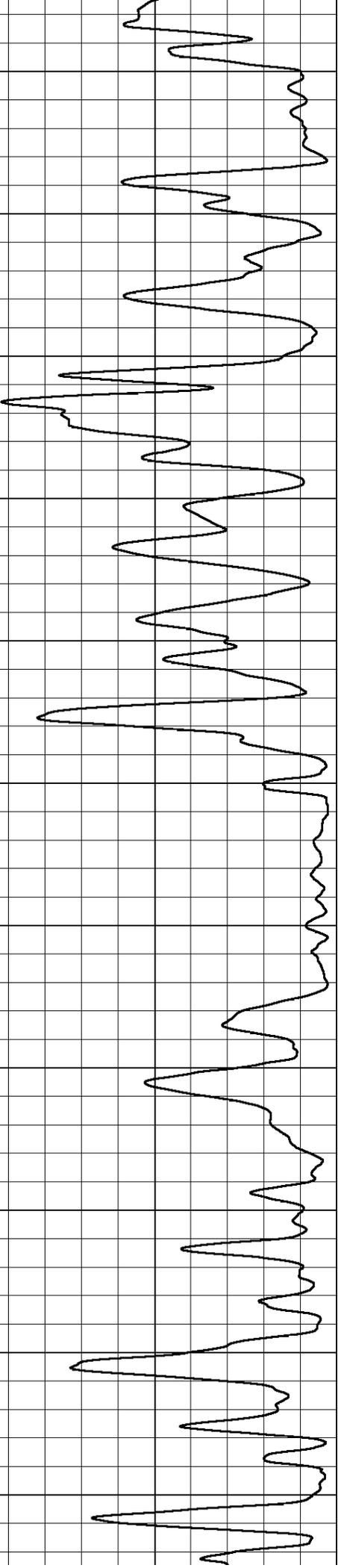
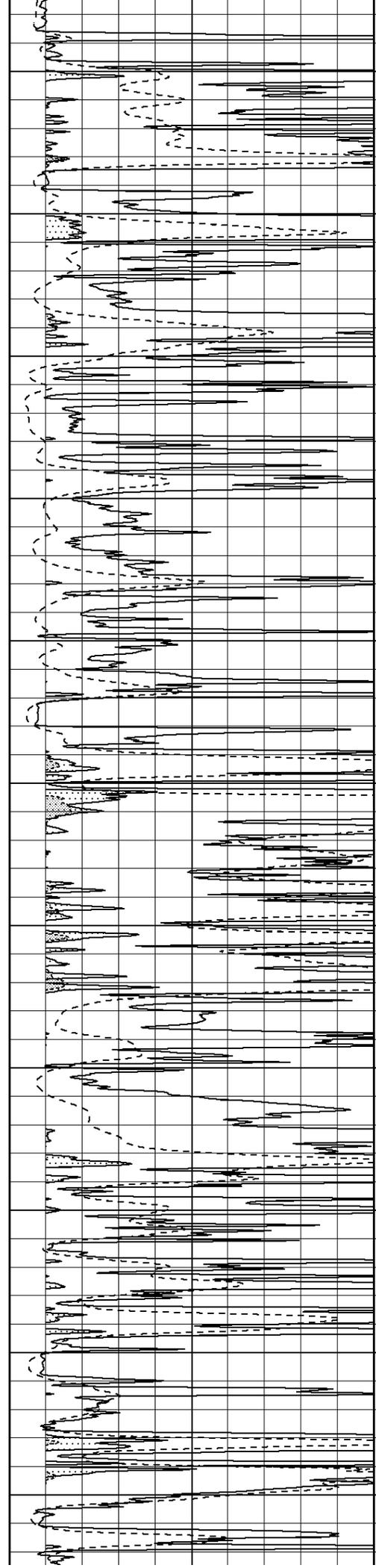


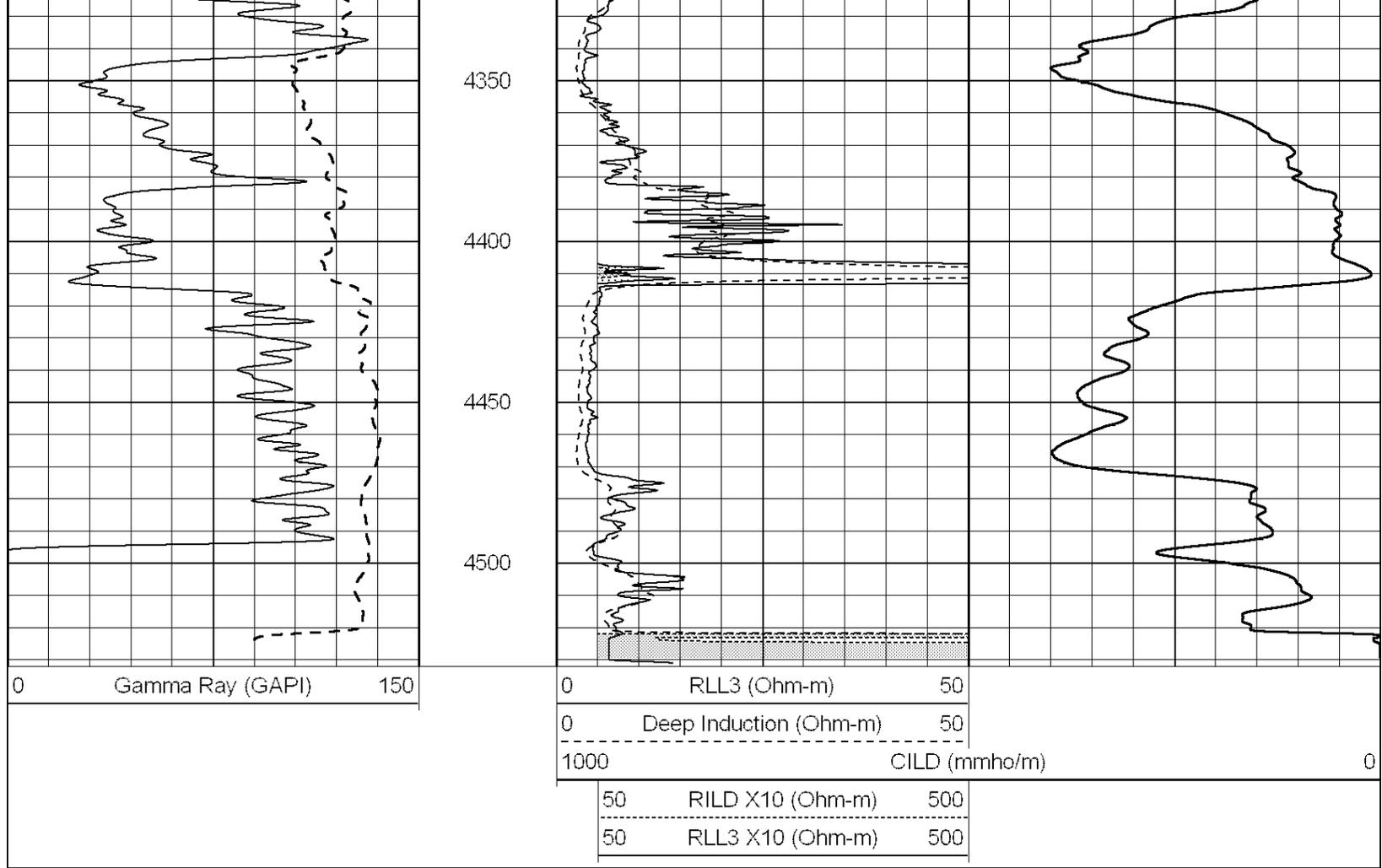
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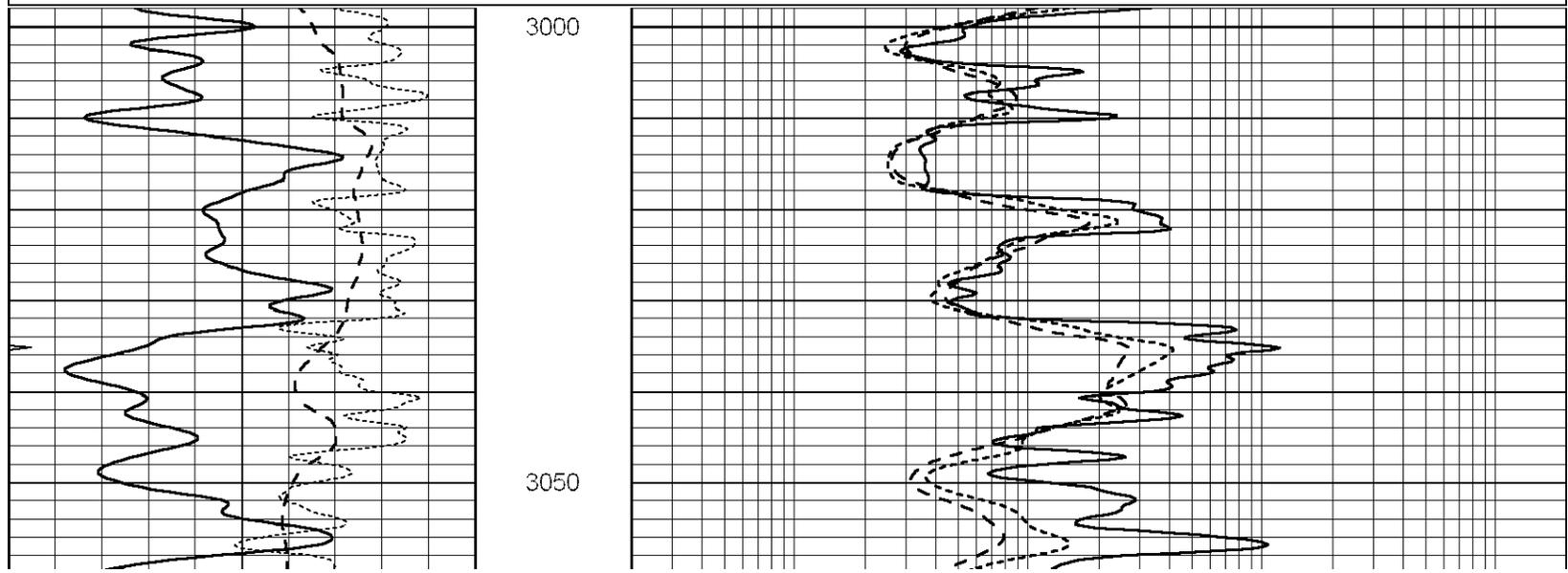
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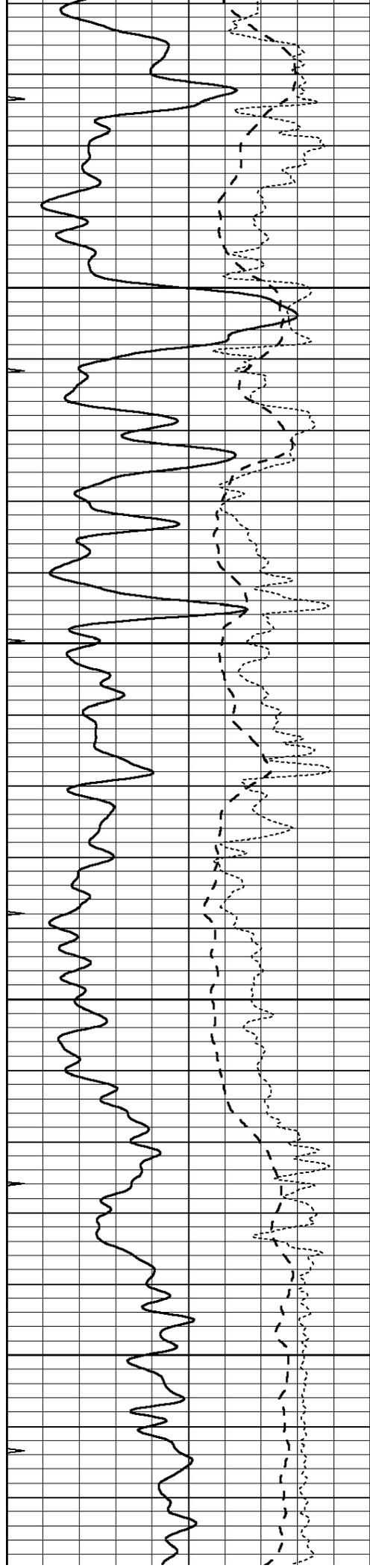




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 Charted by: Depth in Feet scaled 1:240

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-100	SP (mV)	100	0.2	DEEP INDUCTION (Ohm-m)	2000
-250	RxoRt	50	0.2	MEDIUM INDUCTION (Ohm-m)	2000
0	MINMK	20			



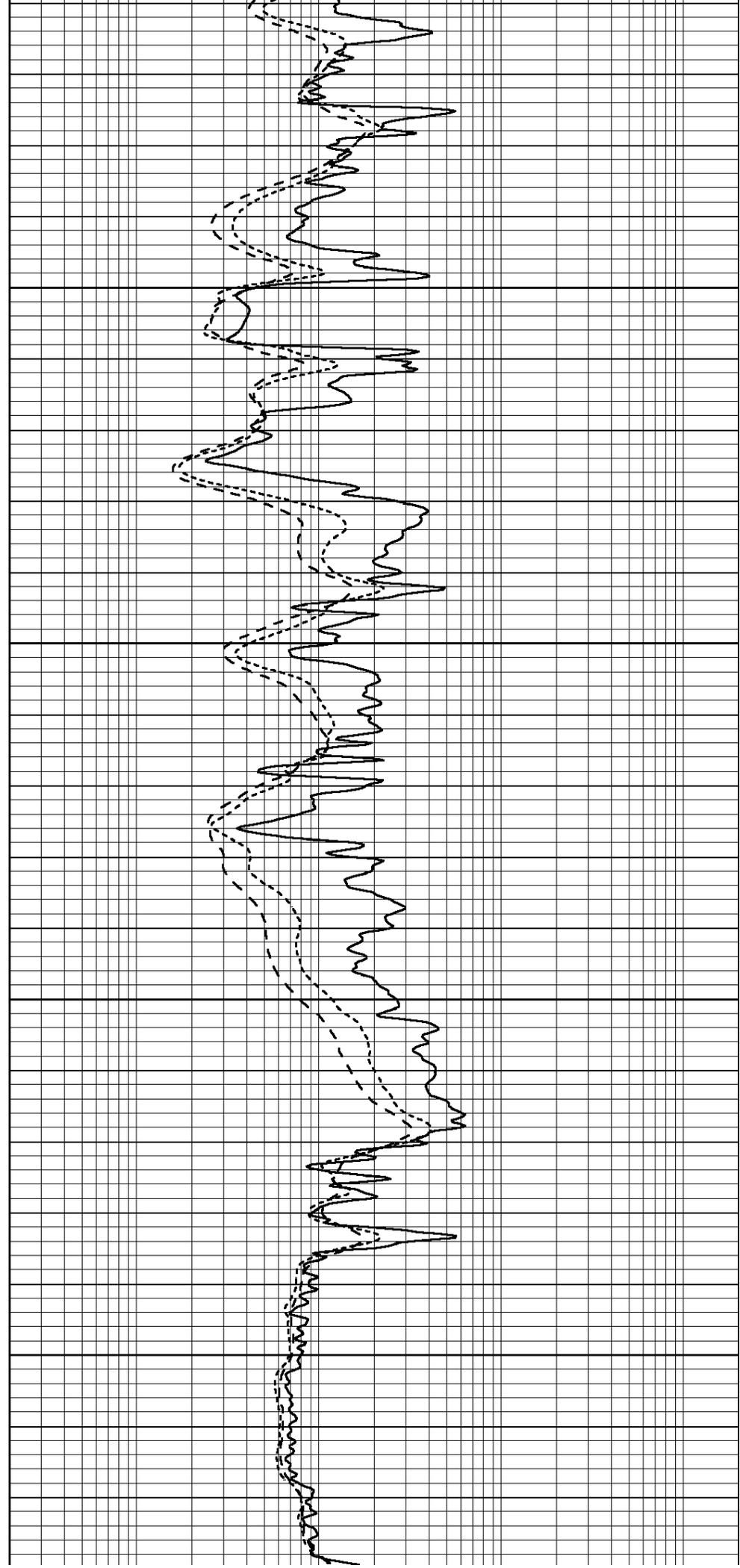


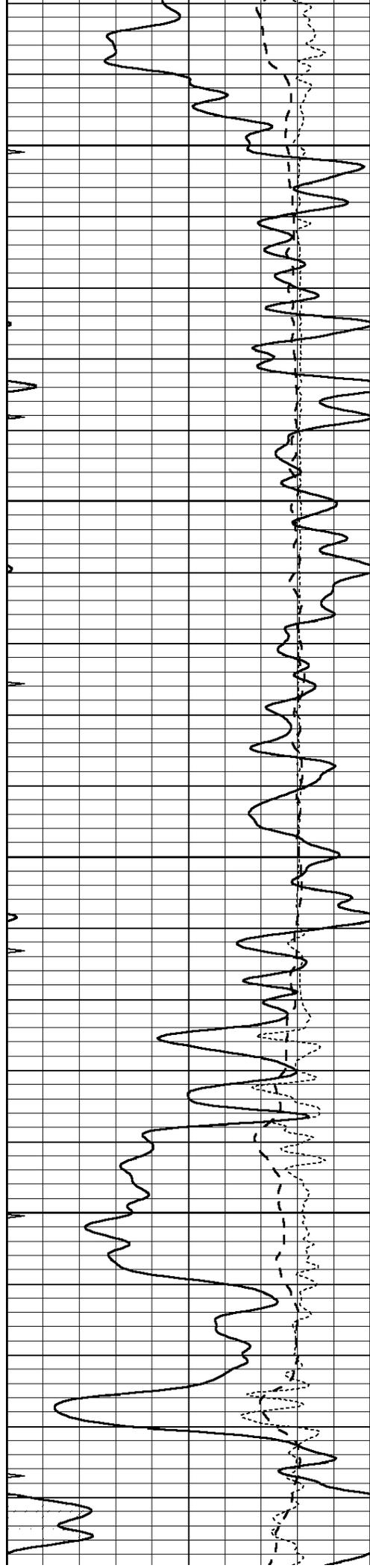
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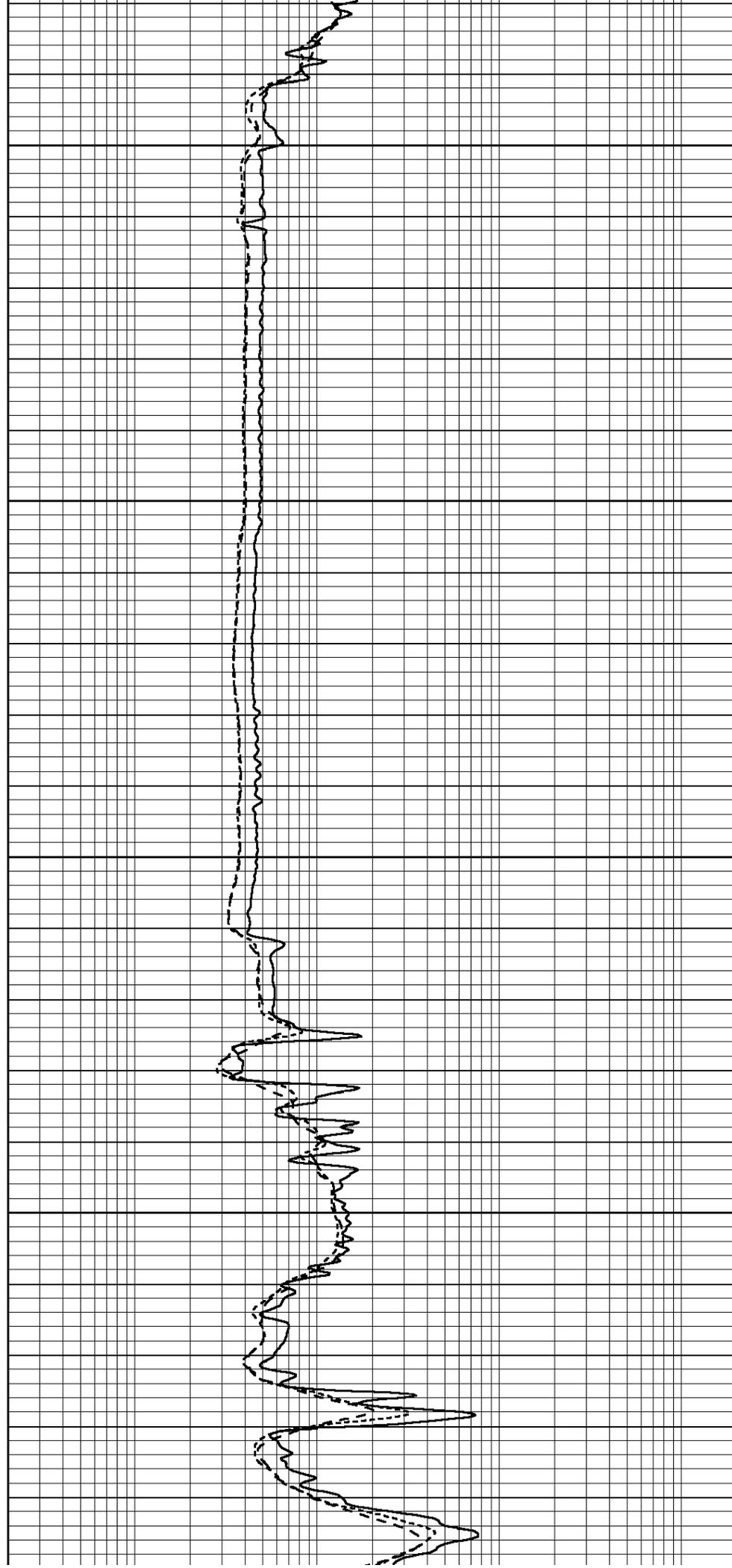
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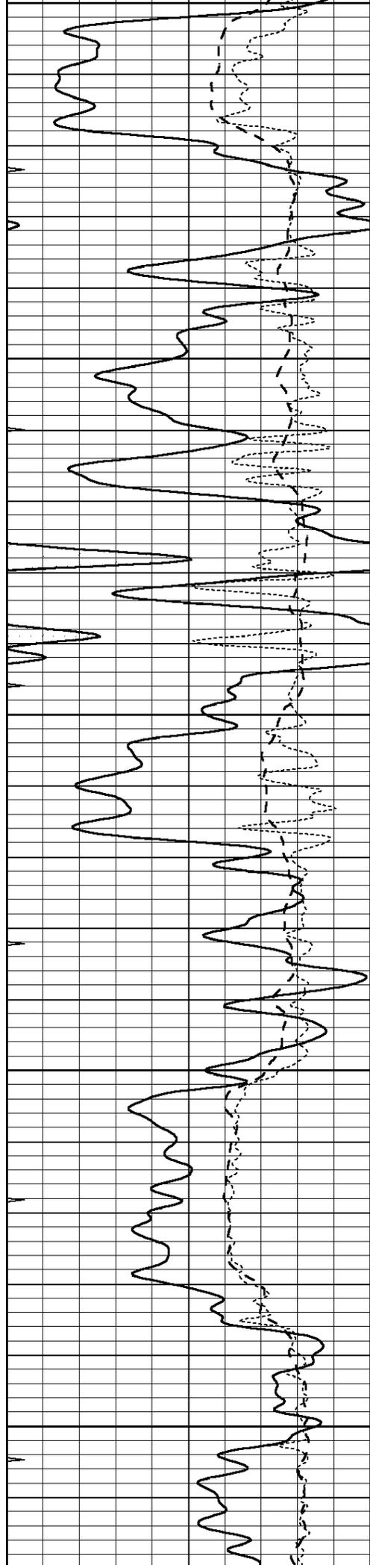
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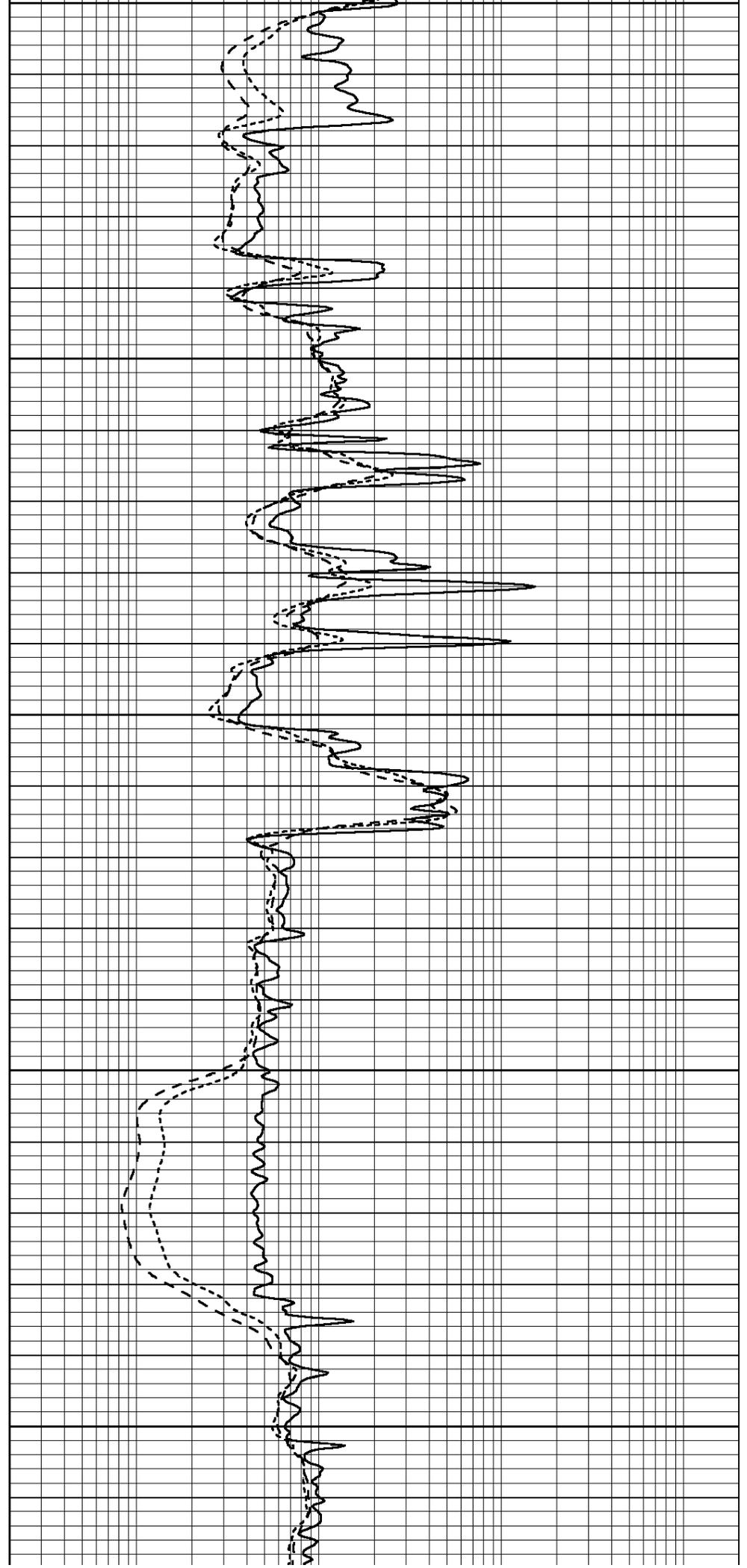
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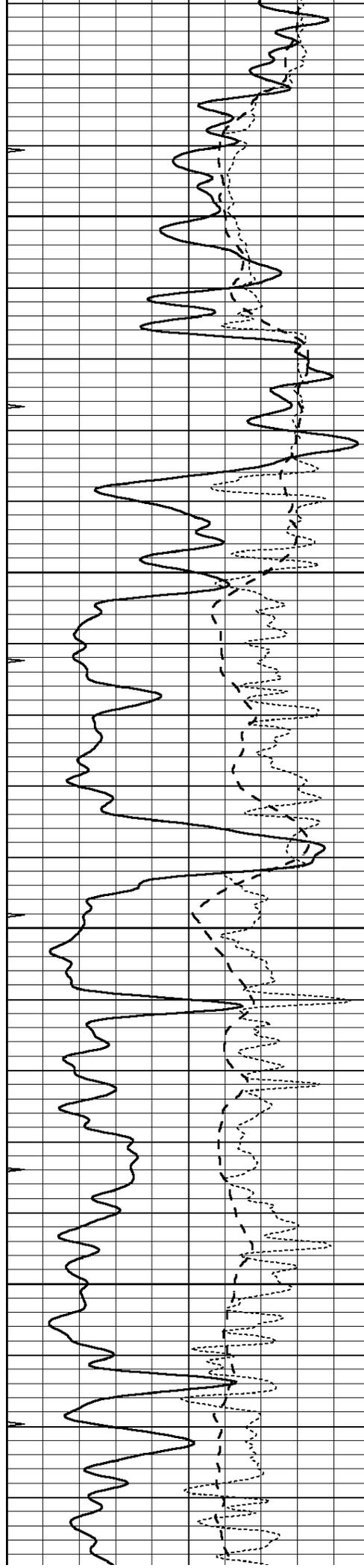
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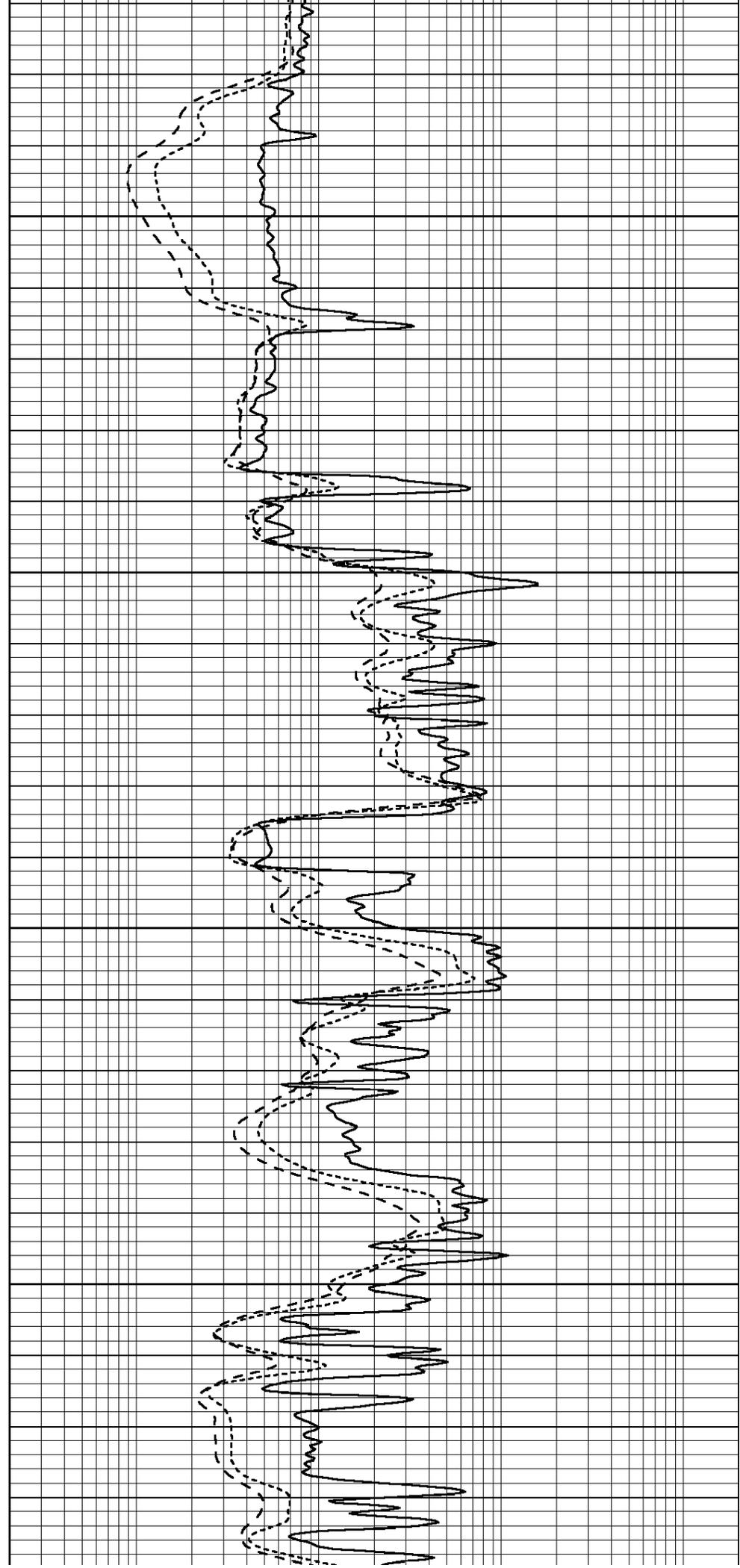


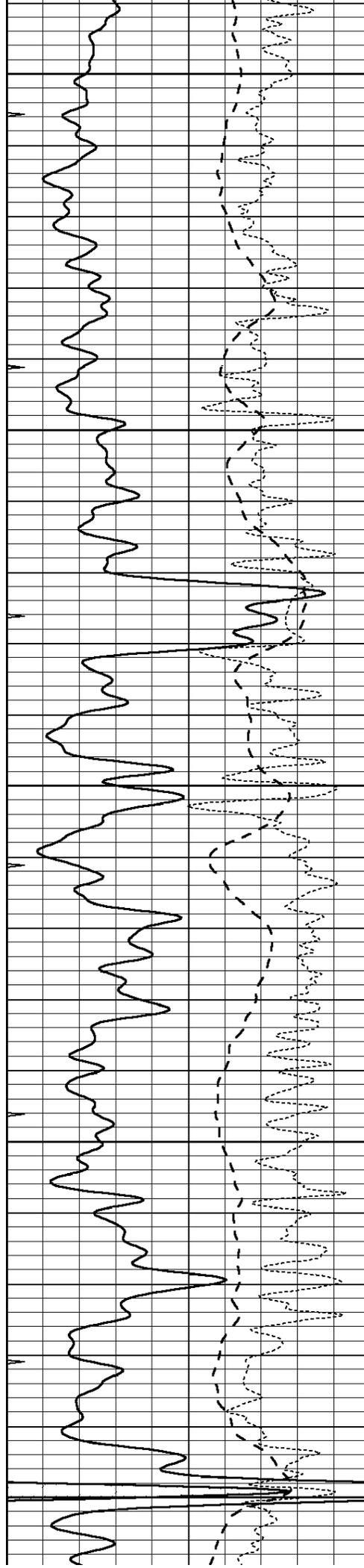
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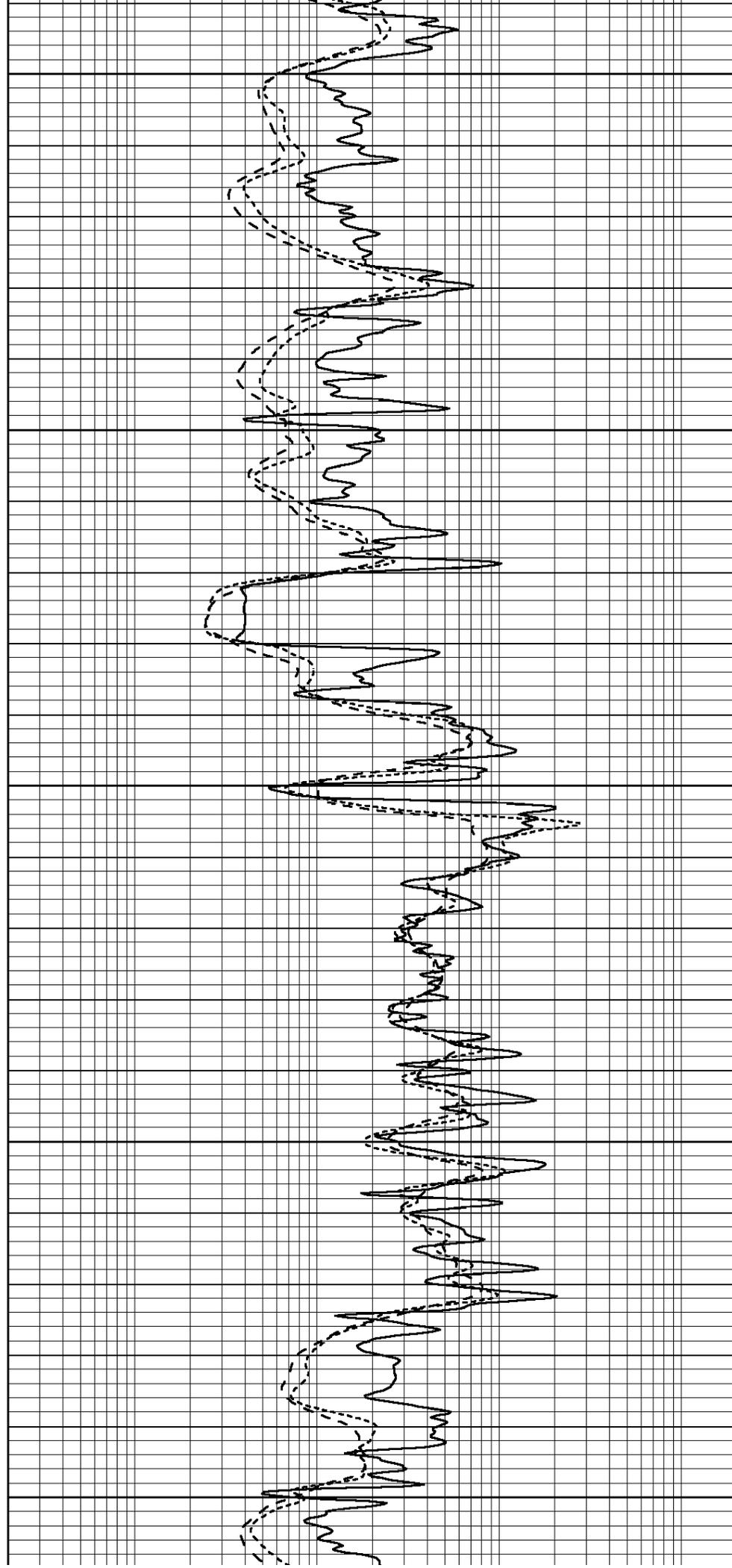
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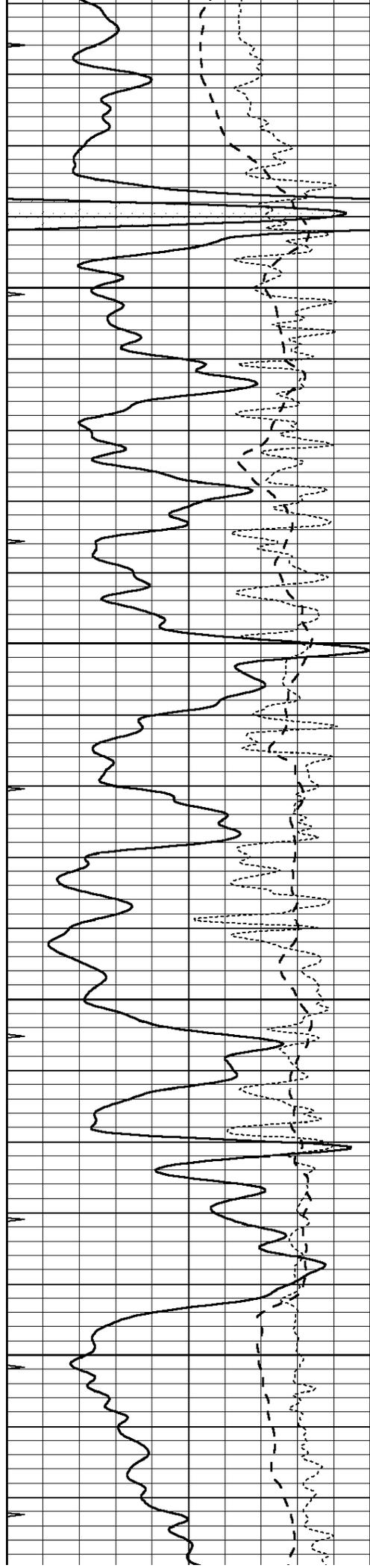
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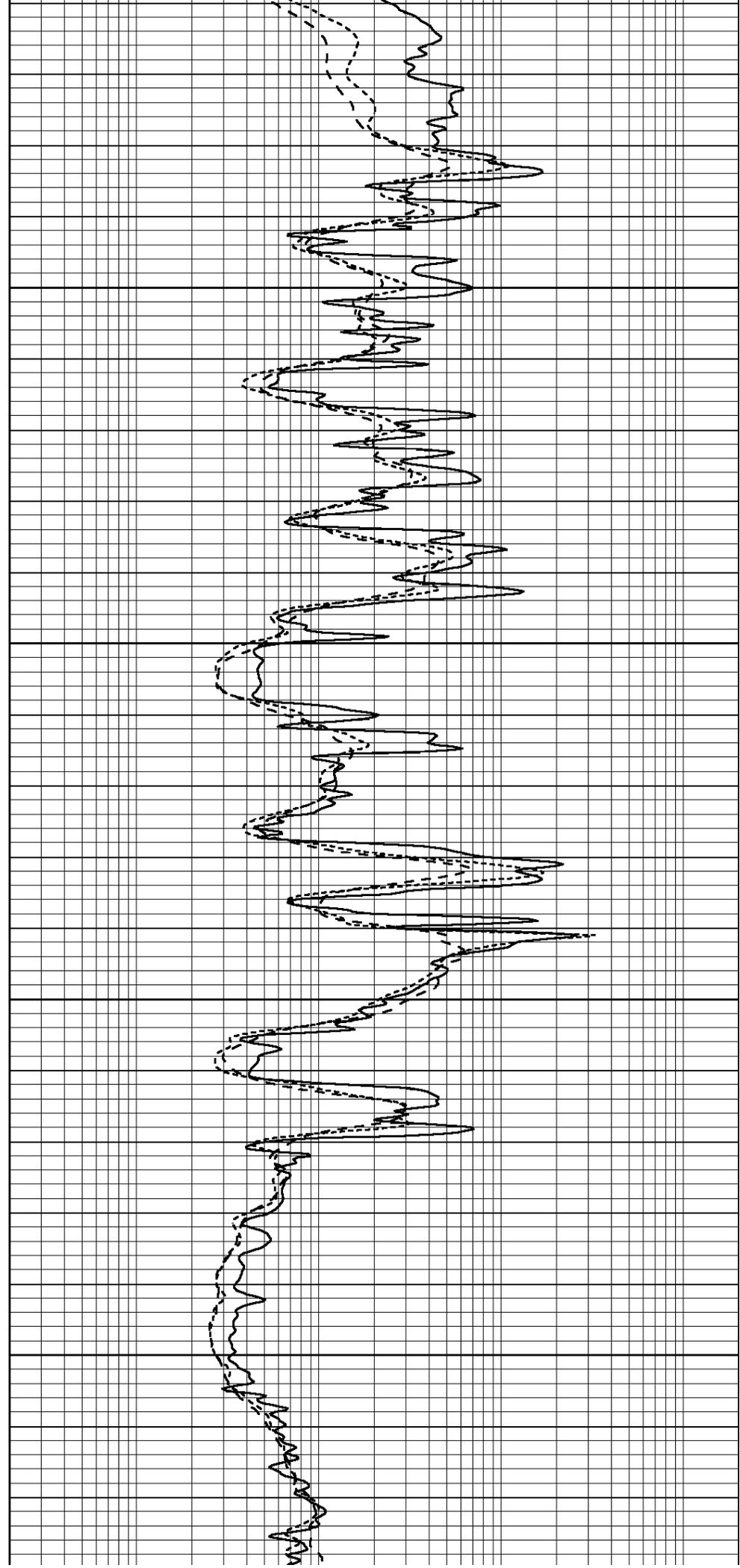


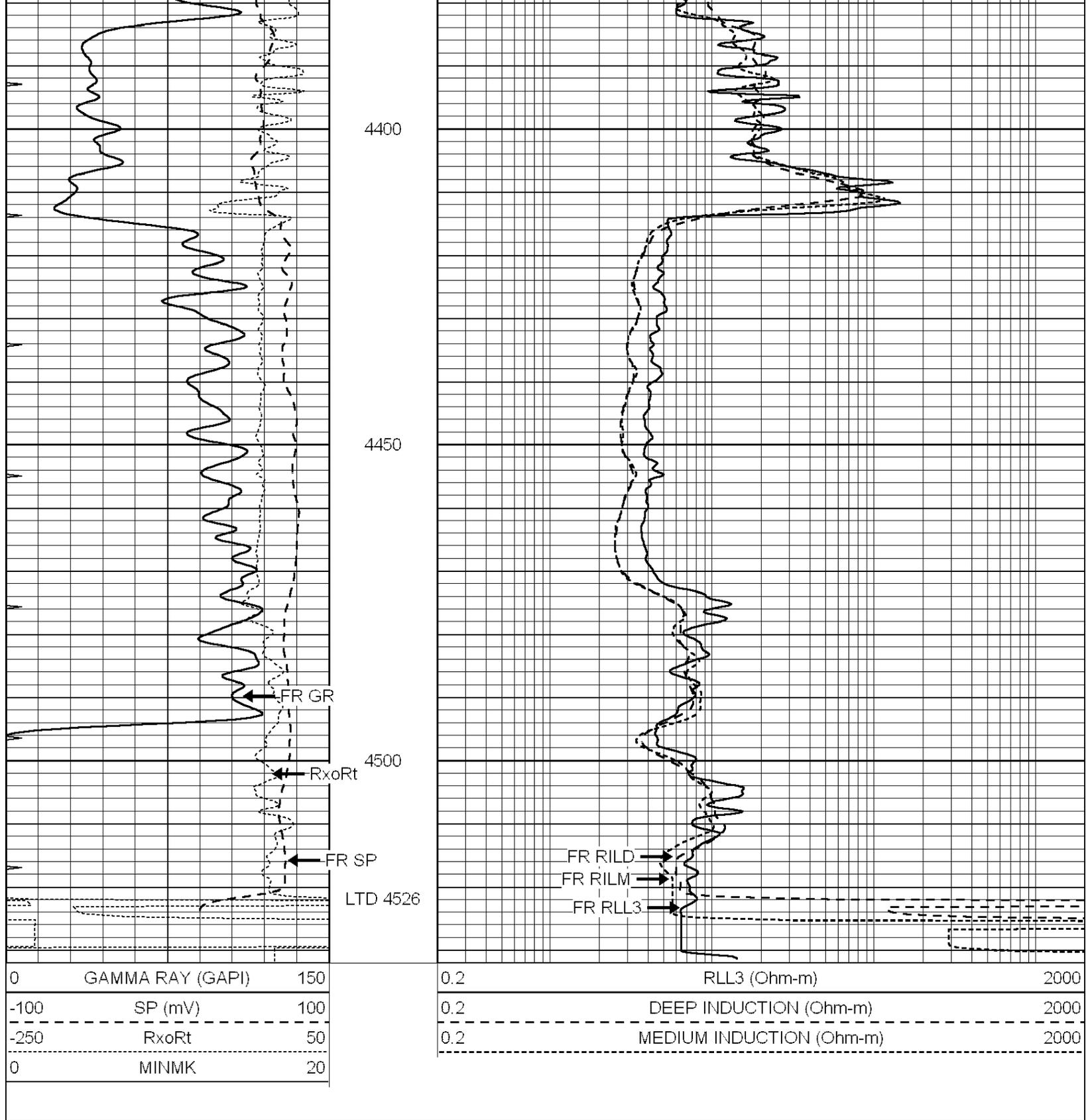
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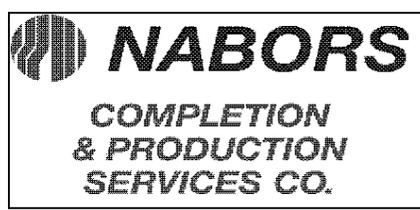
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0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
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0	MINMK	20

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

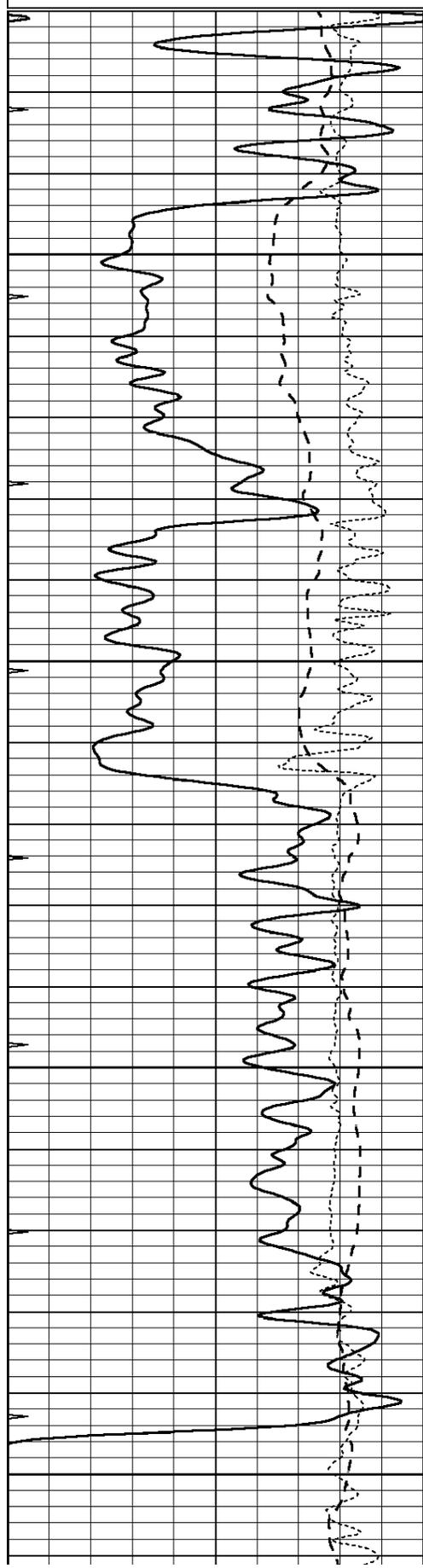


REPEAT SECTION

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 Charted by: Depth in Feet scaled 1:240

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-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

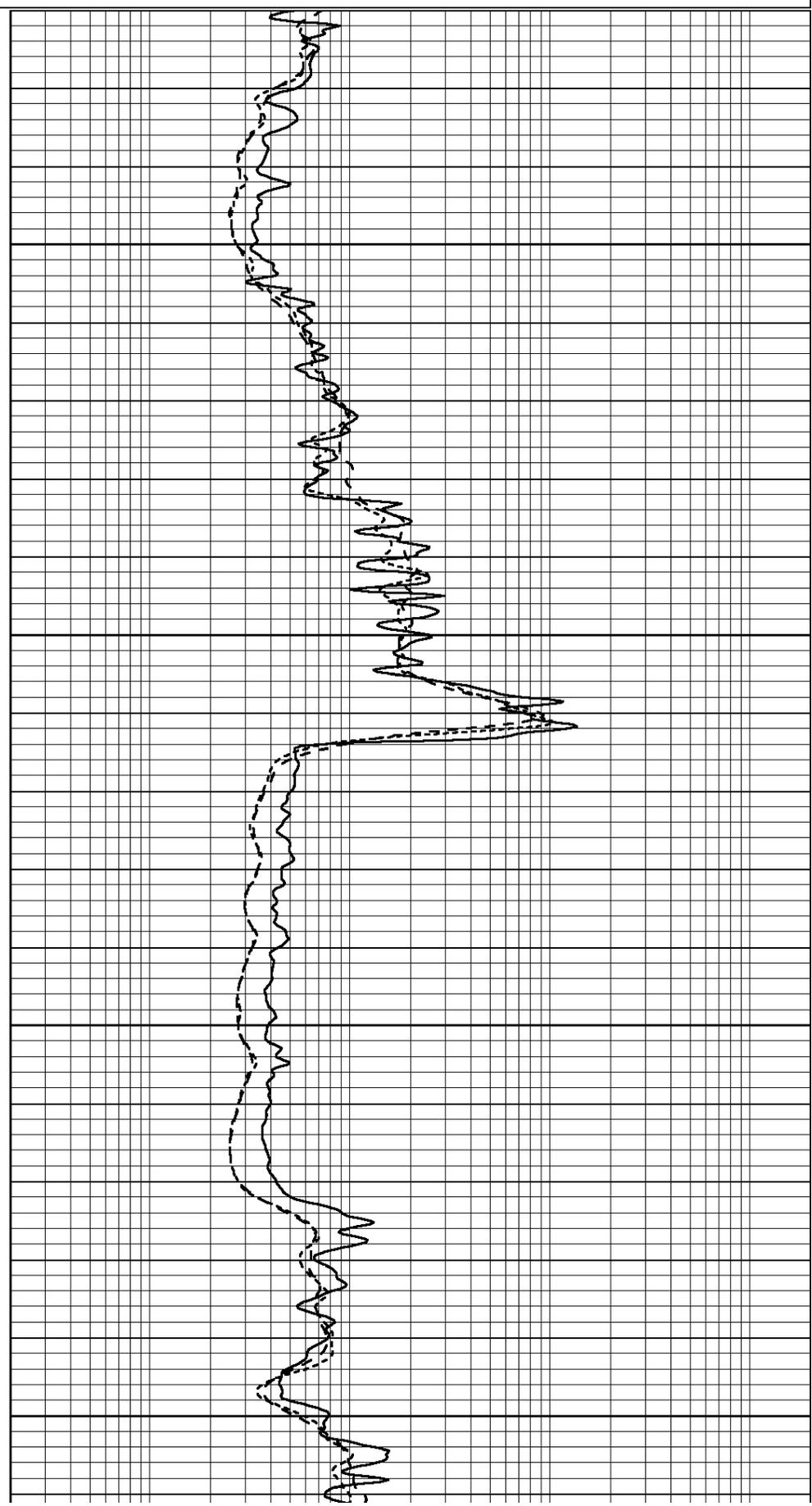


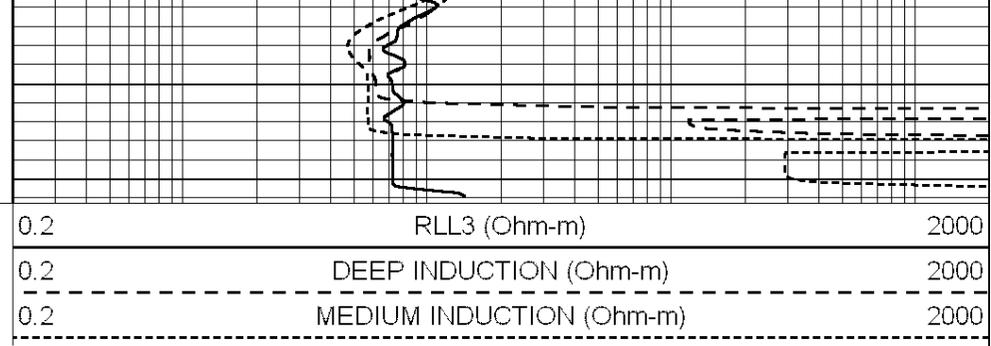
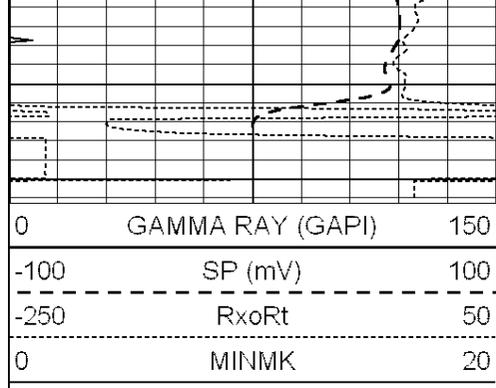
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Calibration Report

Database File: 010176.db
 Dataset Pathname: pass3.6
 Dataset Creation: Sat May 11 00:26:30 2013 by Calc Open-Cased 090629

Dual Induction Calibration Report

Serial-Model: PROBE7-DILG
 Surface Cal Performed: Thu Apr 25 07:54:19 2013
 Downhole Cal Performed: Sat Jan 19 19:51:38 2013
 After Survey Verification Performed: Sat Jan 19 19:51:38 2013

Surface Calibration

		Readings			References			Results	
Loop:	Air	Loop	V	Air	Loop		m	b	
Deep	0.793	0.790	V	0.000	400.000	mmho/m	620.000	4.000	
Medium	0.992	1.002	V	0.000	464.000	mmho/m	680.000	-42.000	
Internal:	Zero	Cal	V	Zero	Cal		m	b	
Deep	0.041	0.642	V	0.000	400.000	mmho/m	664.874	-27.011	
Medium	0.035	0.802	V	0.000	464.000	mmho/m	604.936	-21.367	

Downhole Calibration

		Readings			References			Results	
	Zero	Cal	V	Zero	Cal		m'	b'	
Deep	135384.000	27094.500	mmho/m	135400.000	27082.400	mmho/m	1.000	-19.259	
Medium	-47330.100	-9381.740	mmho/m	-47327.100	-9389.280	mmho/m	1.000	-10.154	
LL3		7.322	V		1400.000	Ohm-m			
		0.038	V		20.000	Ohm-m			
		-7.273	V		4000.000	mmho-m			

After Survey Verification

		Readings			Targets			Results	
	Zero	Cal	V	Zero	Cal		m'	b'	
Deep	0.000	0.000	mmho/m	135384.000	27094.500	mmho/m	1.000	0.000	
Medium	0.000	0.000	mmho/m	-47330.100	-9381.740	mmho/m	1.000	0.000	
LL3		0.000	Ohm-m		1400.000	Ohm-m			
		0.000	Ohm-m		20.000	Ohm-m			
		0.000	mmho-m		4000.000	mmho-m			

Litho Density Calibration Report
 Serial: 001 Model: PRB
 Performed Tue Jul 03 11:37:32 2007

Litho Density Calibration

	Background	Magnesium	Aluminum	Sandstone	
Window 1	2170.6	9915.1	3855.3	11241.6	cps
Window 2	2029.2	8716.5	3483.5	9750.8	cps
Window 3	1665.0	4929.7	2356.8	5332.0	cps
Window 4	493.3	492.1	490.0	486.8	cps
Long Space	0.0	6687.3	1454.3	7721.6	cps
Short Space	1.9	2149.3	1403.9	2354.5	cps
Rho		1.7100	2.5900	1.3800	g/cc
Pe			2.5700	1.5500	
Rib Angle	: 44.4	Rib Slope	: 0.979	Density/Spine Ratio	: 0.556
Spine Angle	: 74.4	Spine Slope	: 3.583	Spine Intercept	: -18.7

Caliper	Readings	Reference	
Low Ref	3.5	8.4	
High Ref	5.4	14.0	
	Gain: 2.9		Offset: -1.6

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: Tue May 07 11:41:40 2013

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 4.8000 GAPI/cps