



PIONEER
Pioneer Energy Services

DUAL INDUCTION LOG

Company	PETROSHARE CORP
Well	SHOOK #3-10-4CDH
Field	WATTENBERG
County	ADAMS
State	COLORADO
Location:	API #: 05-001-09974
SEC 3 TWP 1S RGE 67W	2058' FSL & 2184' FEL
Permanent Datum	GROUND LEVEL
Log Measured From	KELLY BUSHING
Drilling Measured From	KELLY BUSHING
Elevation	5096'
K.B.	5109'
D.F.	N/A
G.L.	5096'
Other Services	NONE
Date	8/14/2017
Run Number	ONE
Depth Driller	N/A
Depth Logger	N/A
Bottom Logged Interval	7800'
Top Log Interval	0'
Casing Driller	9.625" @ 1815'
Casing Logger	1823'
Bit Size	8.50"
Type Fluid in Hole	OIL BASED MUD
Salinity, ppm CL	N/A
Density / Viscosity	10.6 N/A
pH / Fluid Loss	N/A N/A
Source of Sample	FLOWLINE
Rm @ Meas. Temp	N/A @ N/A
Rmf @ Meas. Temp	N/A @ N/A
Rmc @ Meas. Temp	N/A @ N/A
Source of Rmf / Rmc	CHARTS
Rm @ BHT	N/A @ N/A
Operating Rig Time	3 HOURS
Max Rec. Temp. F	N/A
Equipment Number	91
Location	HAYS
Recorded By	D. SCHMIDT
Witnessed By	MIKE ROBERTS

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All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not 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.

Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.

BRIGHTON, (HWY 85 & 168 AVE)
2.7 WEST, SOUTH INTO

Log Measured From: KELLY BUSHING

13 Ft. Above Permanent Datum

THANK YOU FOR USING PIONEER ENERGY SERVICES
www.pioneerenergy.com 785-625-3858

Your Pioneer Energy Services Crew



Engineer: D. SCHMIDT
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

Primary Witness: MIKE ROBERTS
Secondary Witness:
Secondary Witness:
Secondary Witness:

Top - Bottom

BOREID in 7.875	BOTTEMP degF 240	CASEOD in 5.5	CASETHCK in 0	PERFS 0	SNDERR mmho/m 0	SNDERRM mmho/m 0	SPSHIFT mV 0
SRFTEMP degF 80	TDEPTH ft 7800						

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	19.00		GR-M&W (89)	3.00	3.50	50.00
RLL3F RLL3	15.80 15.80					
CILD	8.00		DIL-M&W (PSI 91)	18.50	3.50	220.00
CILM	4.70					

SP

0.20

Dataset: petroshare_shook_3-10-4cdh.db: field/well/DIL/pass2
Total length: 21.50 ft
Total weight: 270.00 lb
O.D.: 3.50 in



MAIN PASS

Database File petroshare_shook_3-10-4cdh.db
Dataset Pathname DIL/pass2
Presentation Format dil2in
Dataset Creation Mon Aug 14 19:14:37 2017
Charted by Depth in Feet scaled 1:600

0 Gamma Ray (GAPI) 150

1000 Conductivity (mmho/m) 0

15000 Line Tension (lb) 0

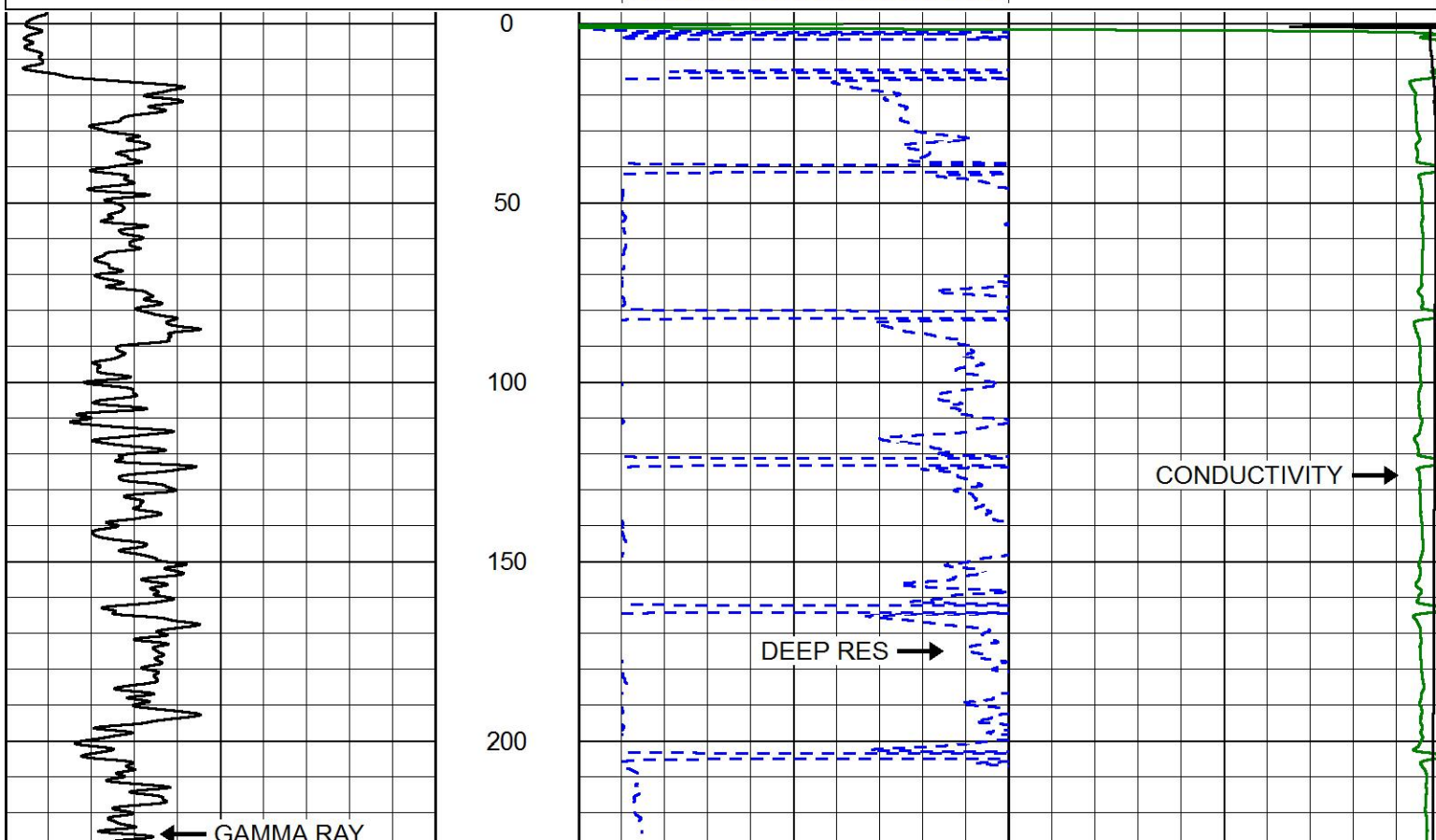
0 Shallow Resistivity (Ohm-m) 50

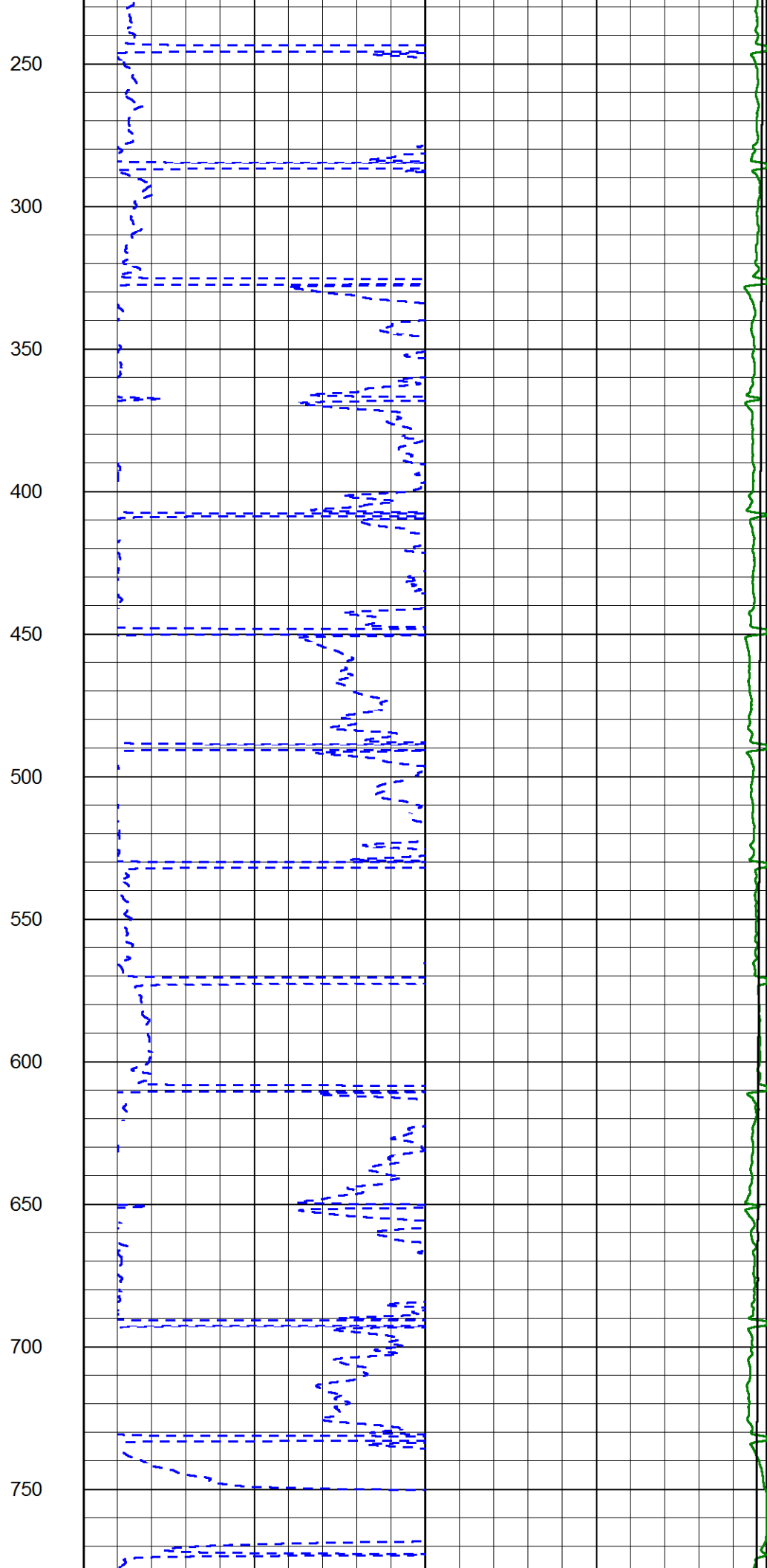
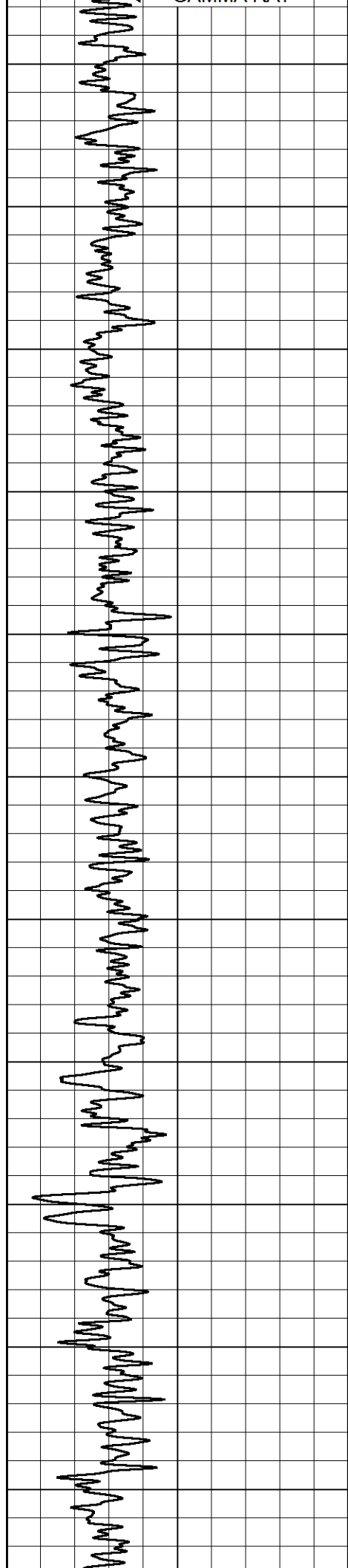
0 Deep Resistivity (Ohm-m) 50

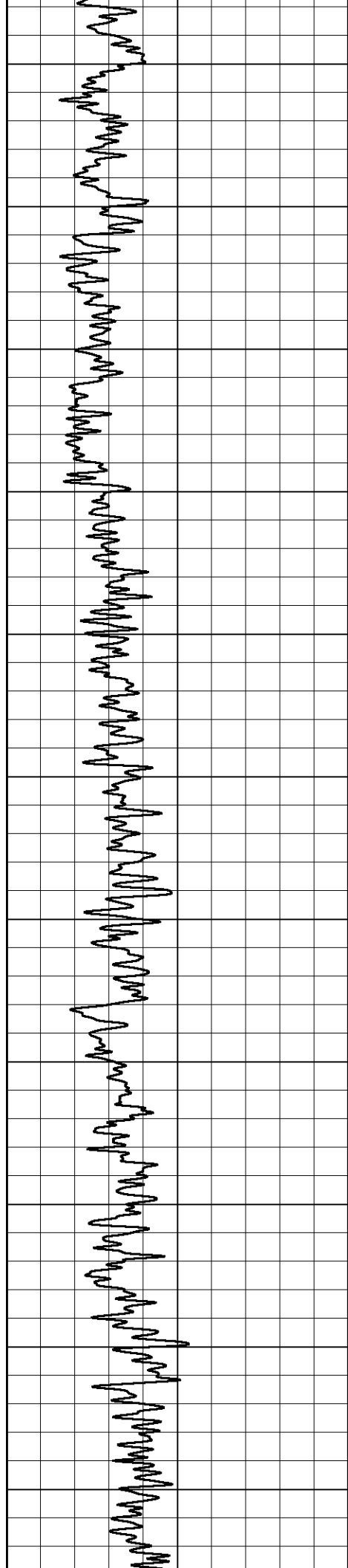
Shallow Resistivity

50 (Ohm-m) 500

50 Deep Resistivity (Ohm-m) 500







800

850

900

950

1000

1050

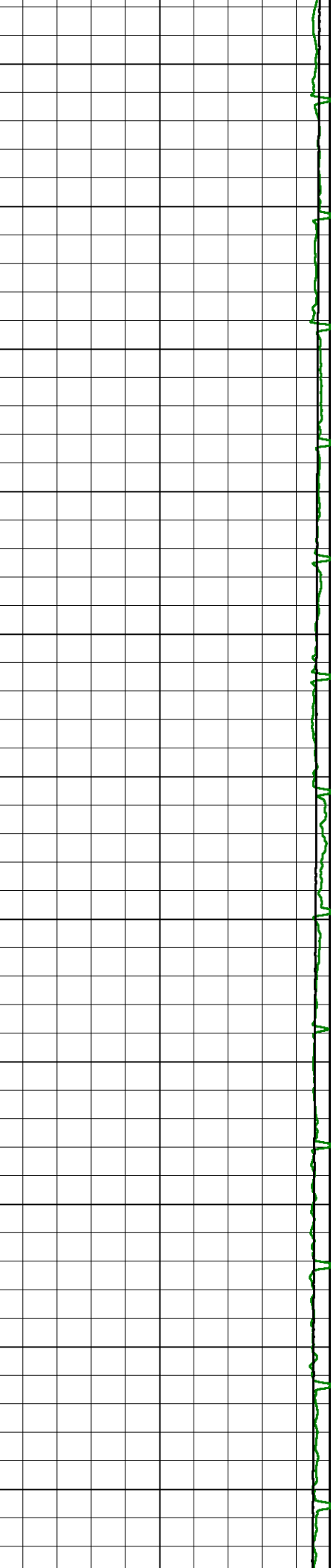
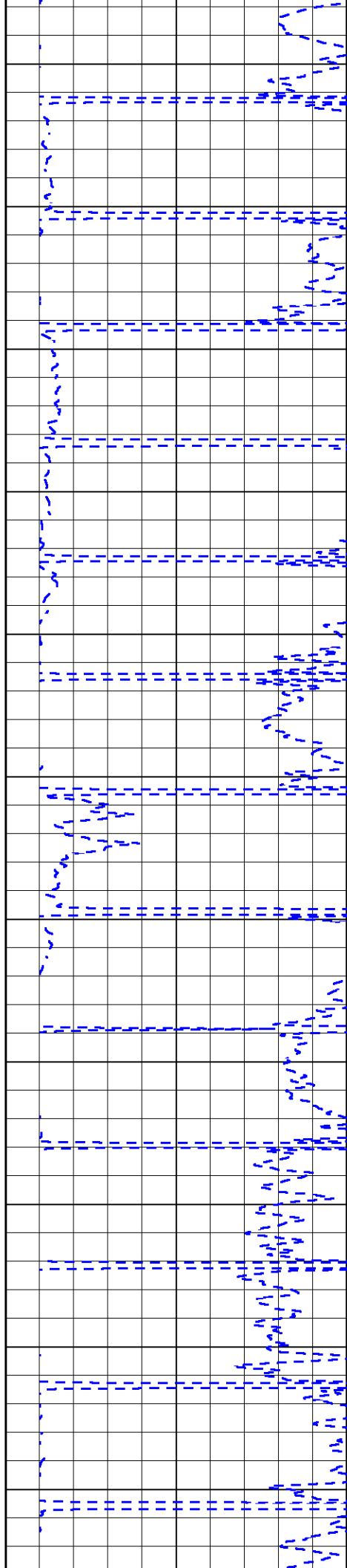
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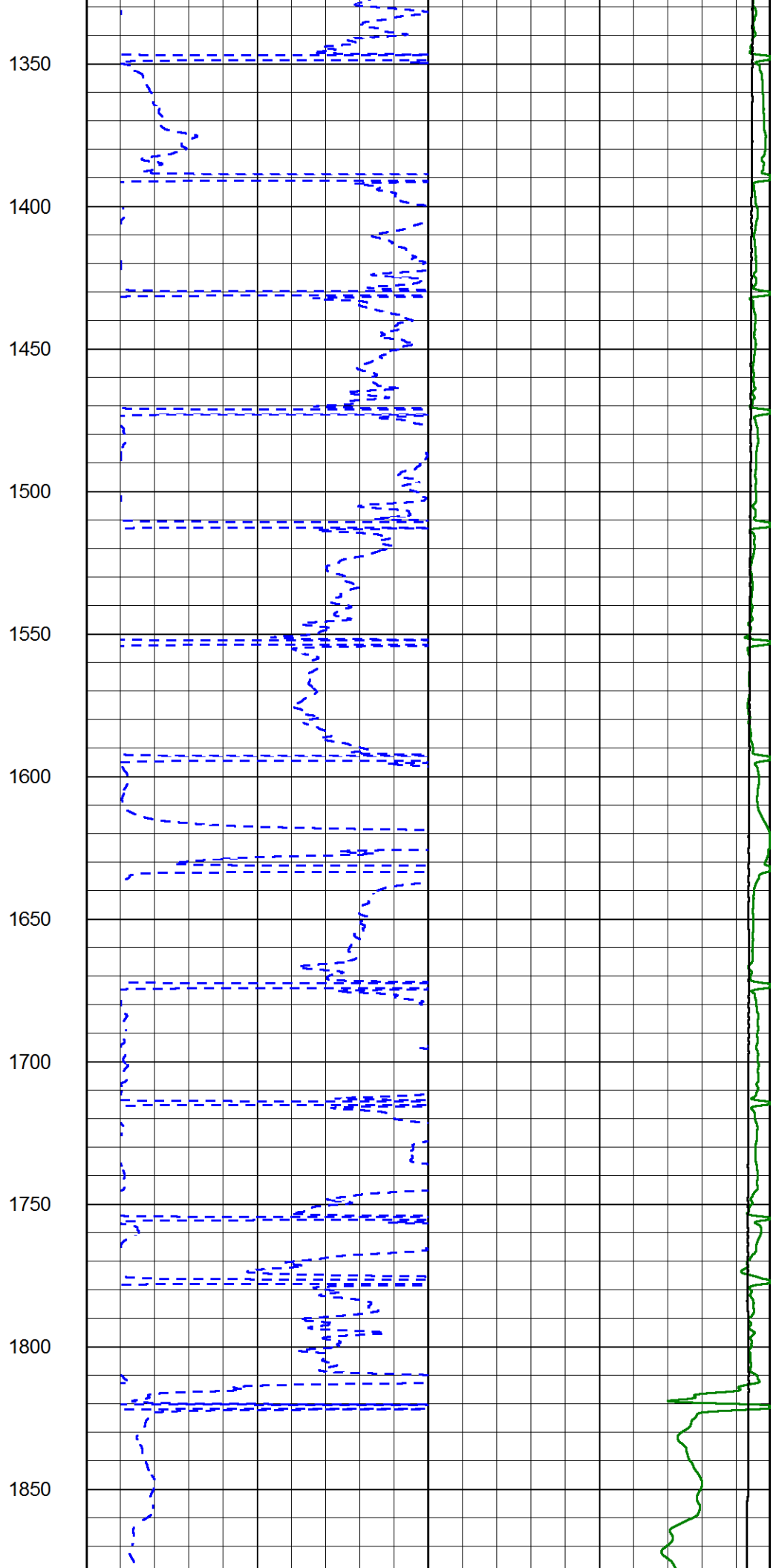
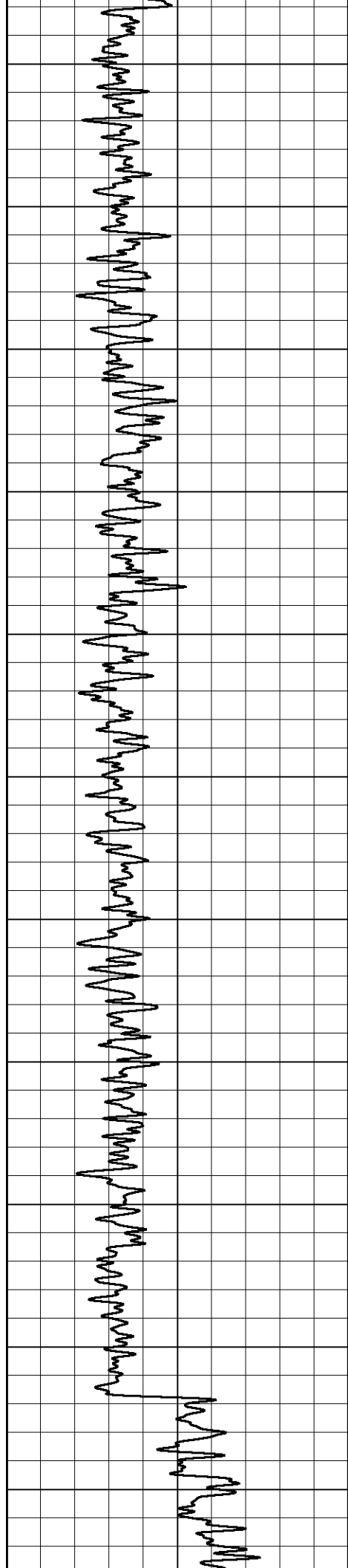
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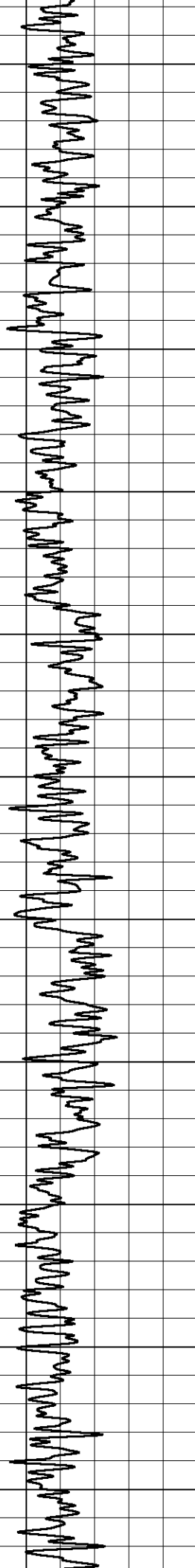
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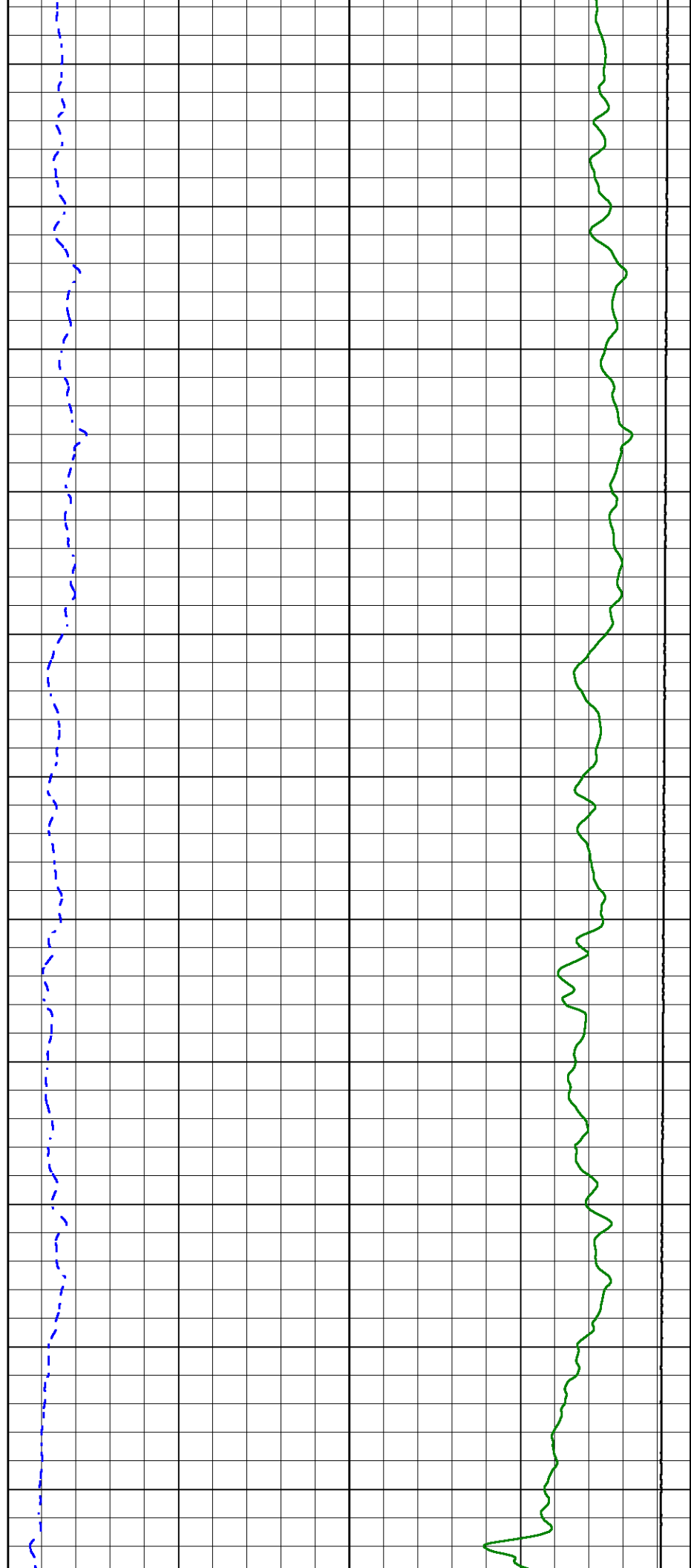
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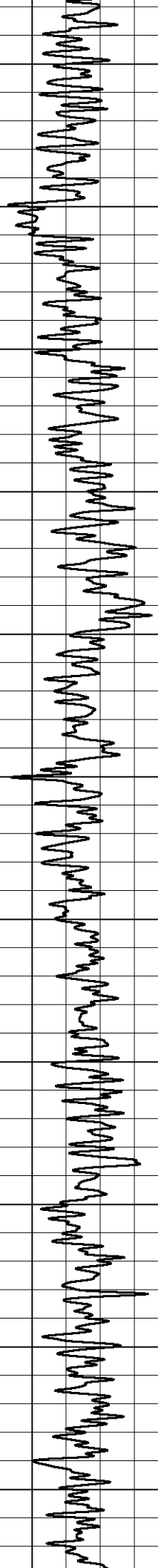




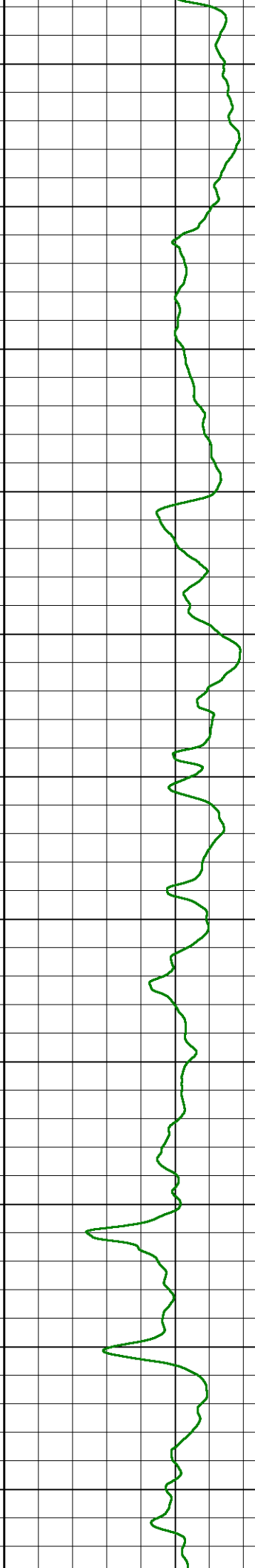
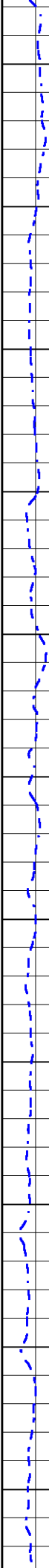


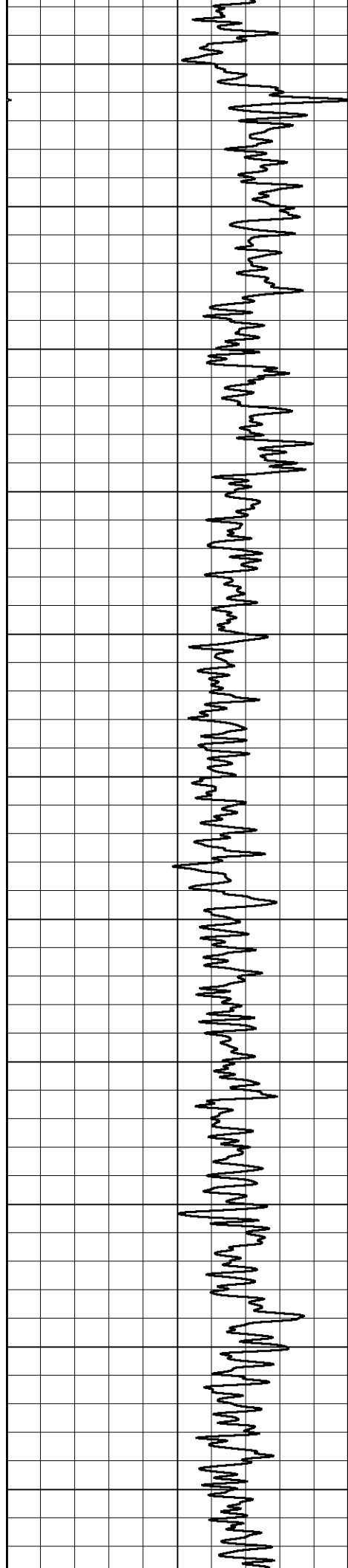
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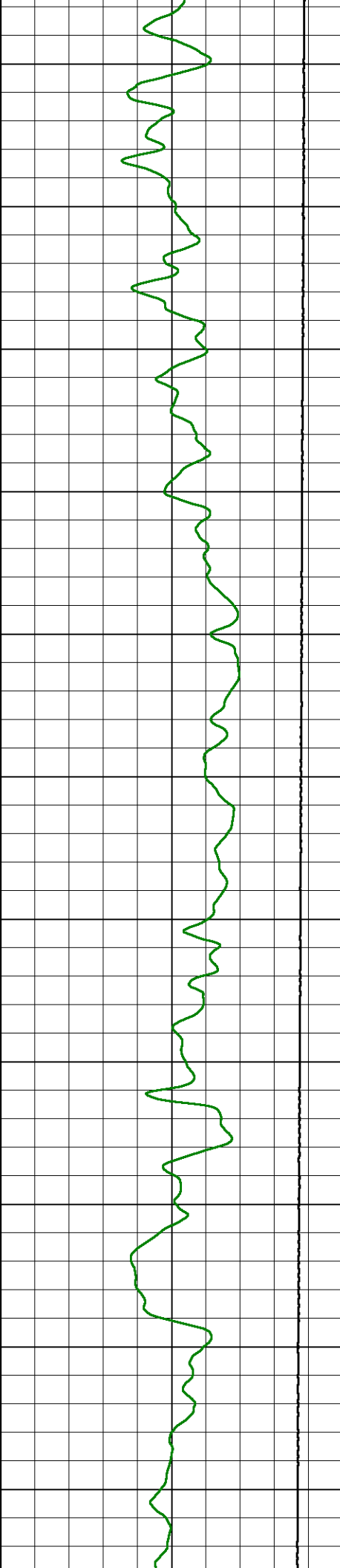
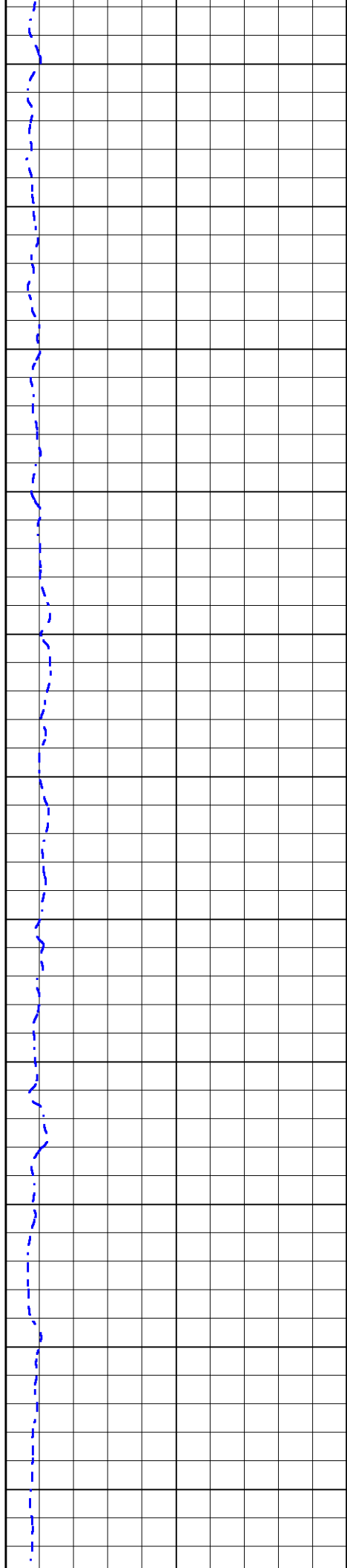


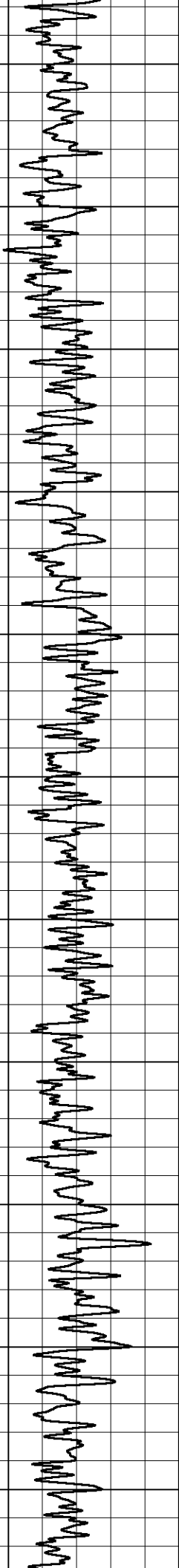
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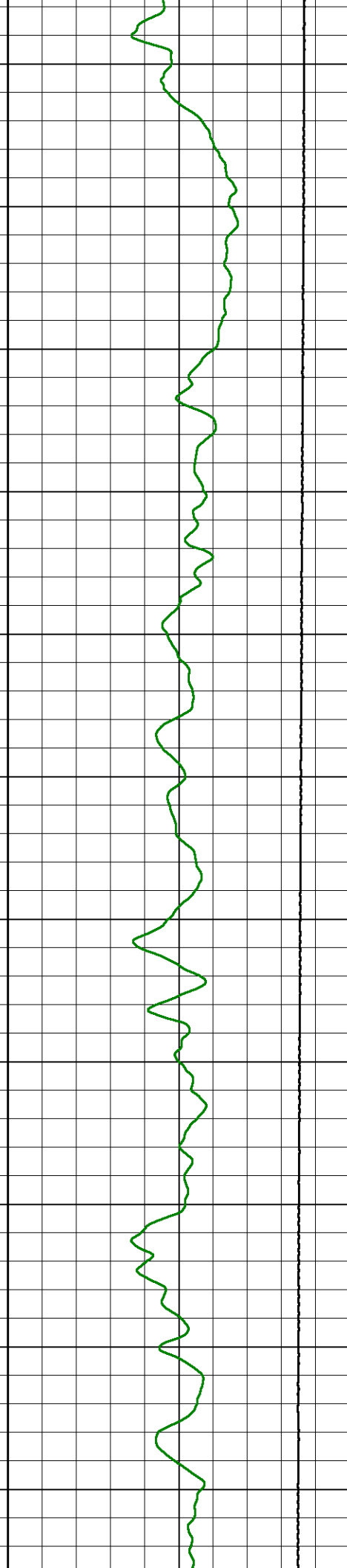
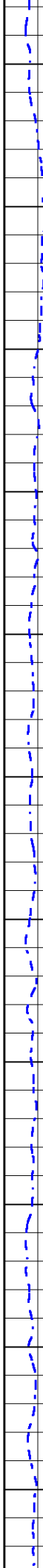


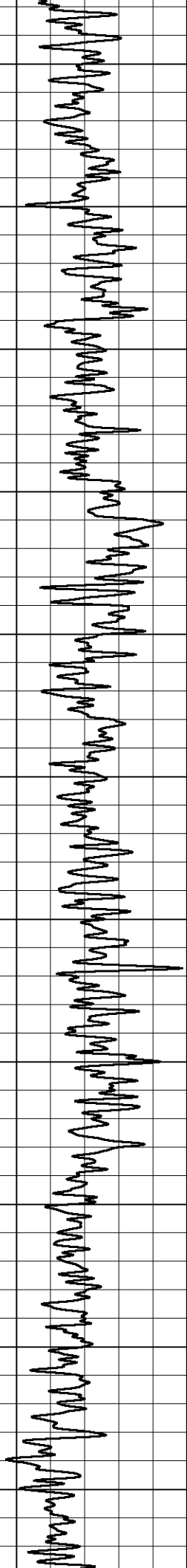
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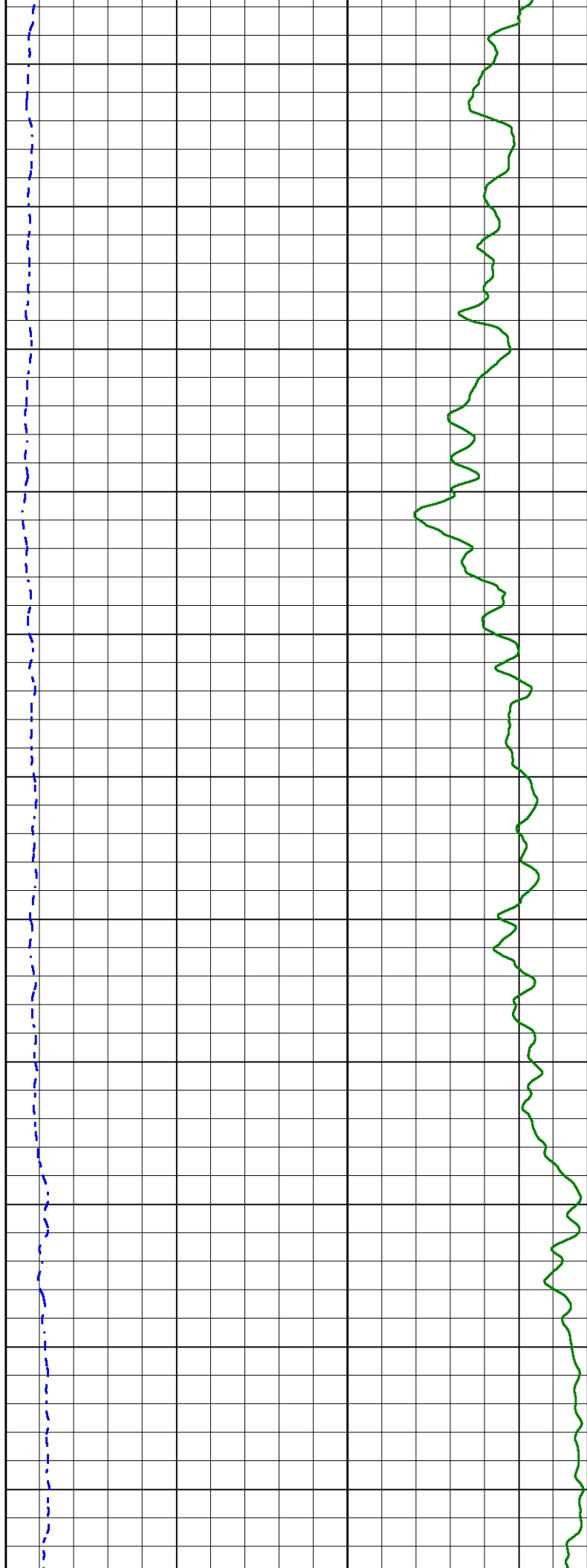


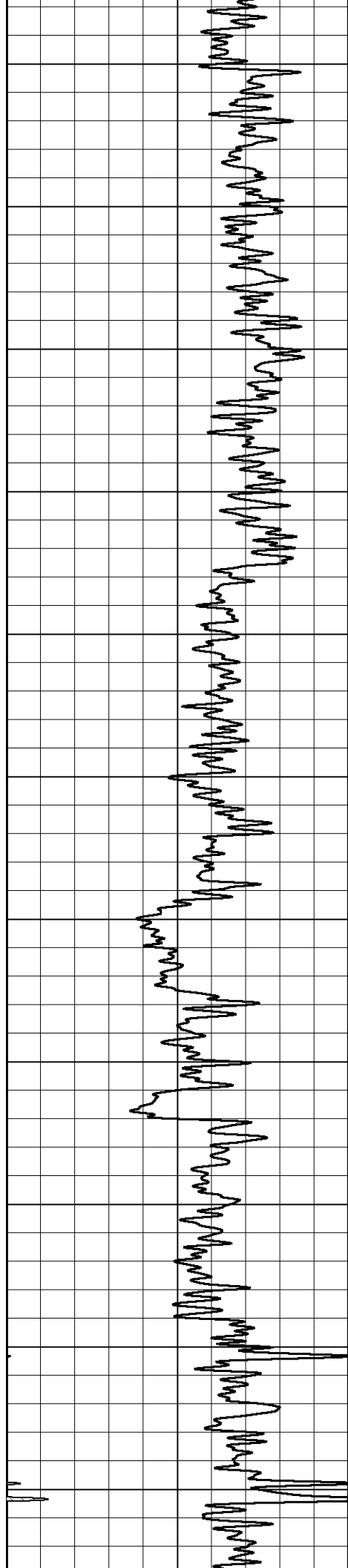
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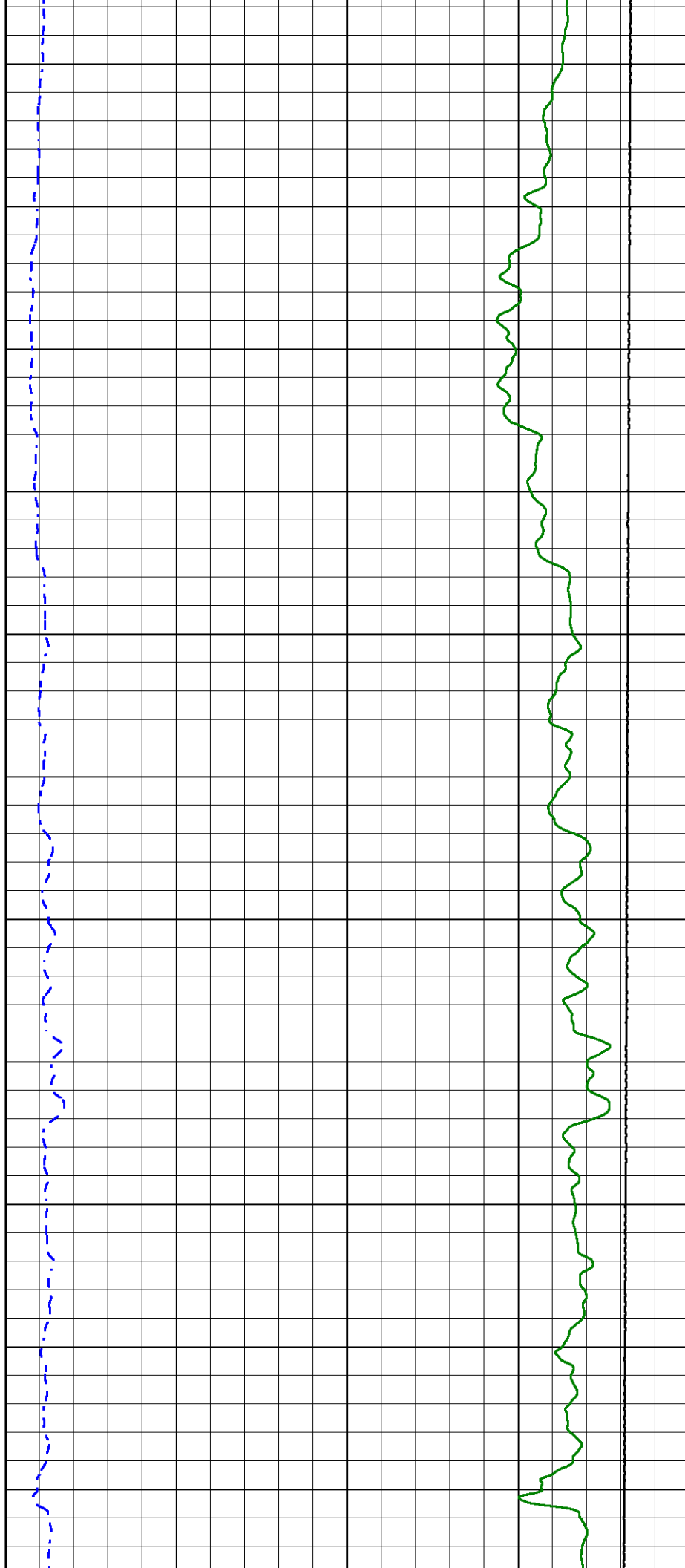
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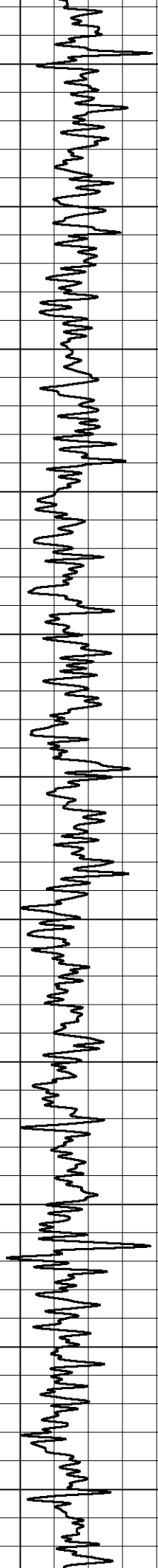
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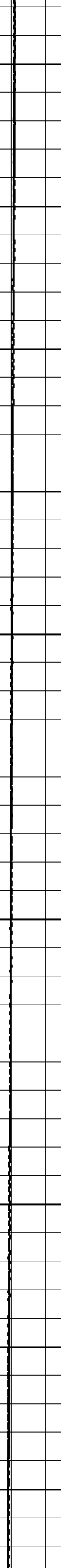
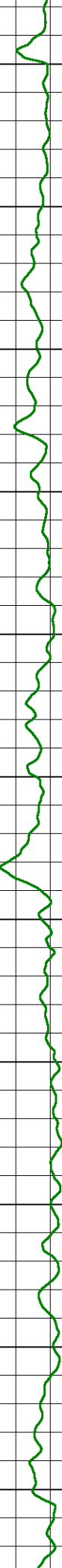
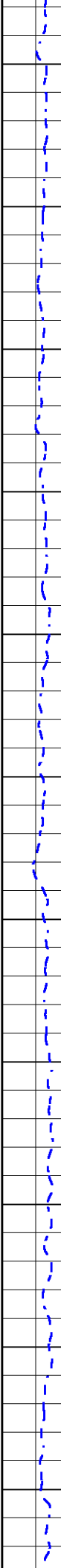
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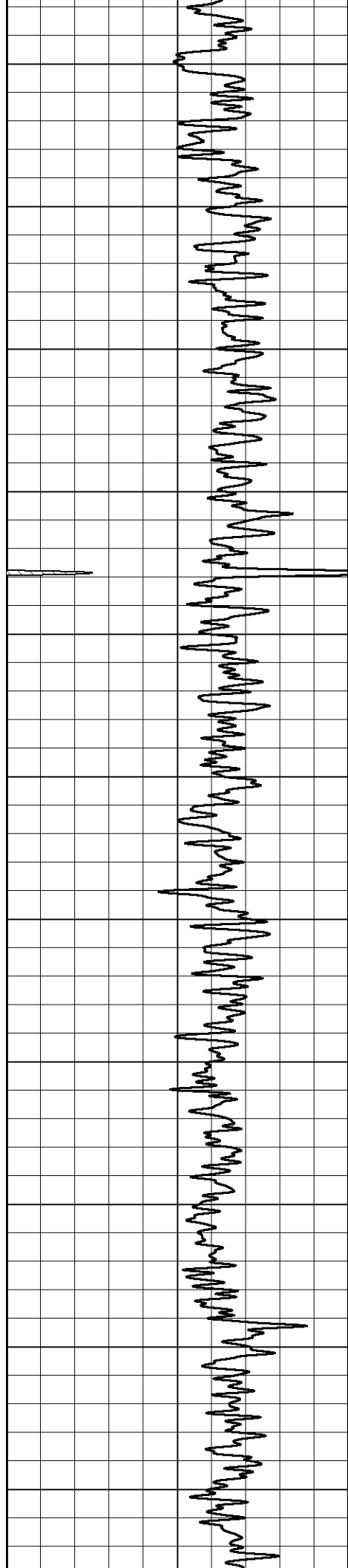
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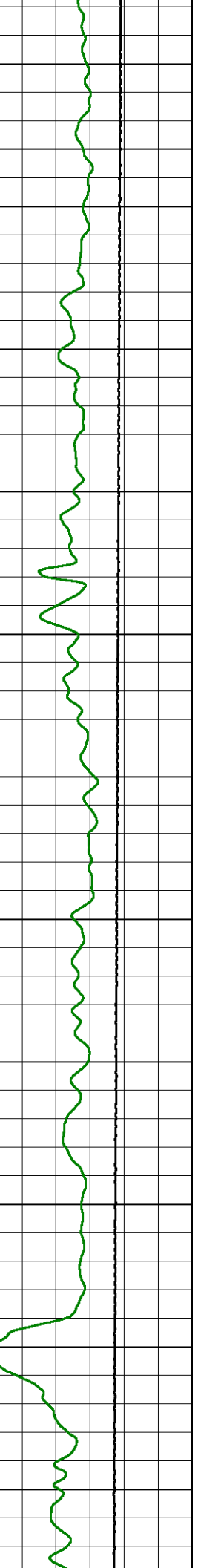
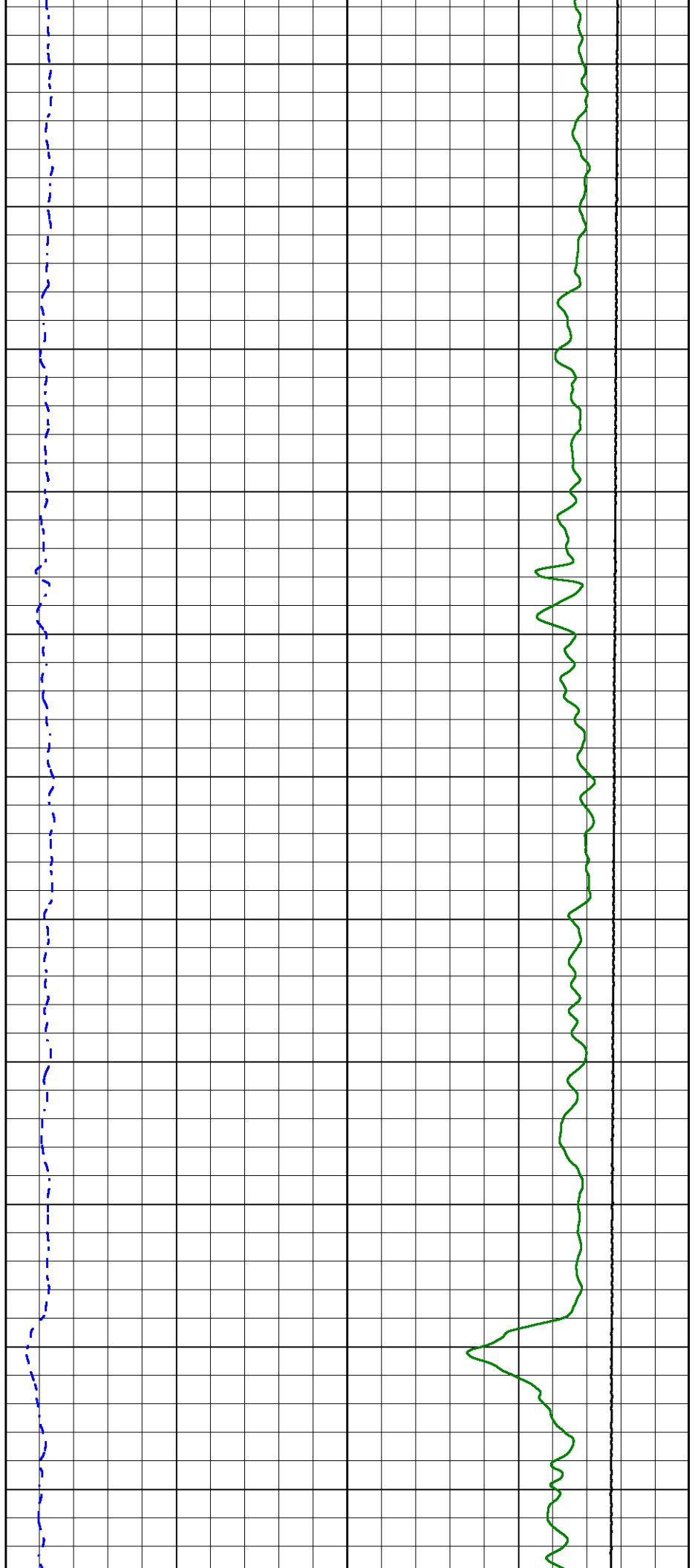
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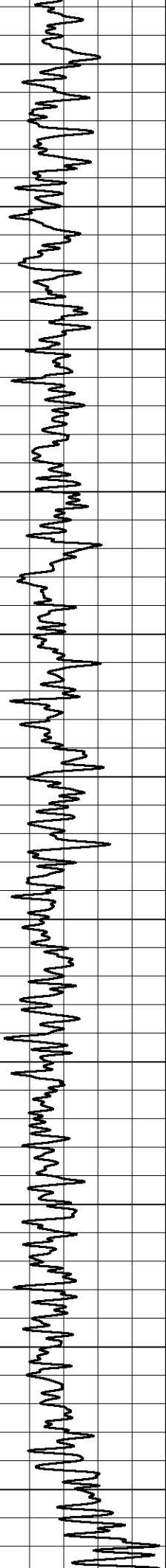
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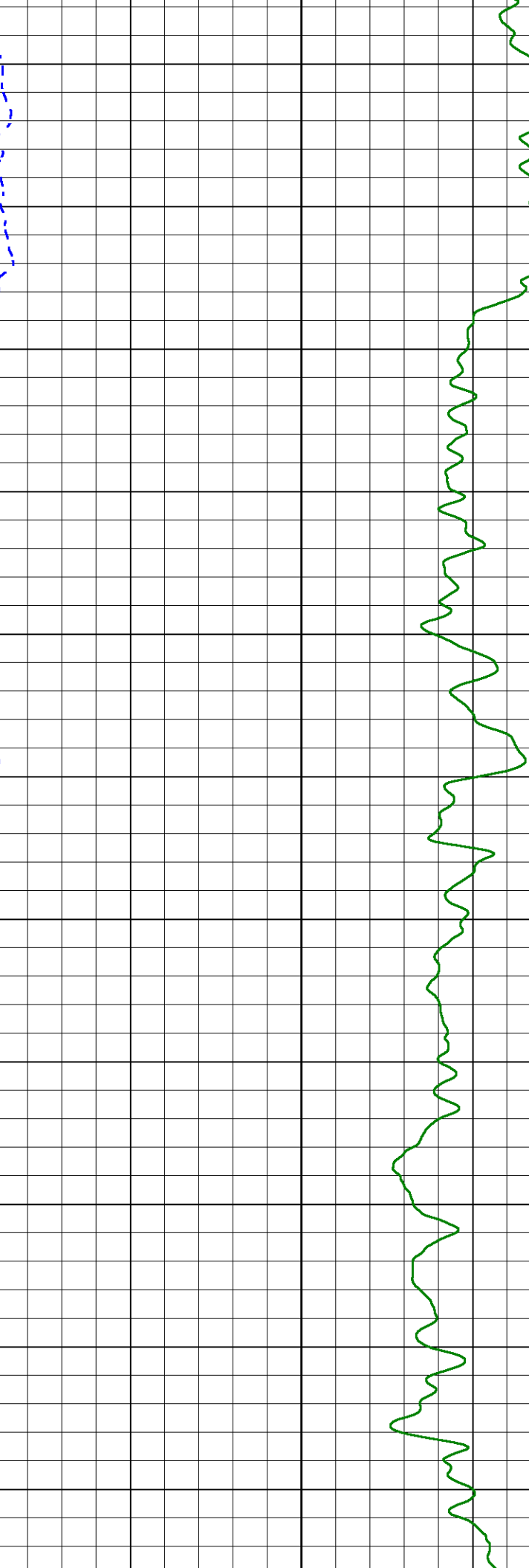
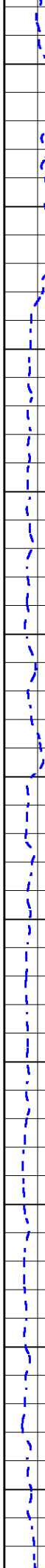
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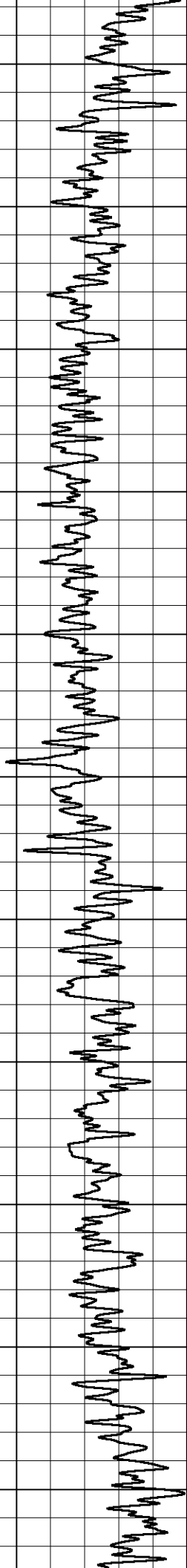
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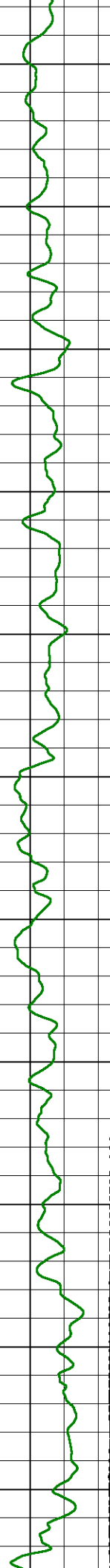
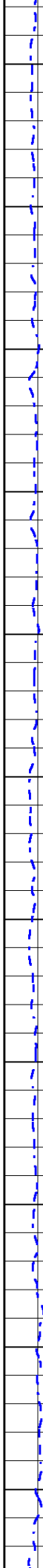


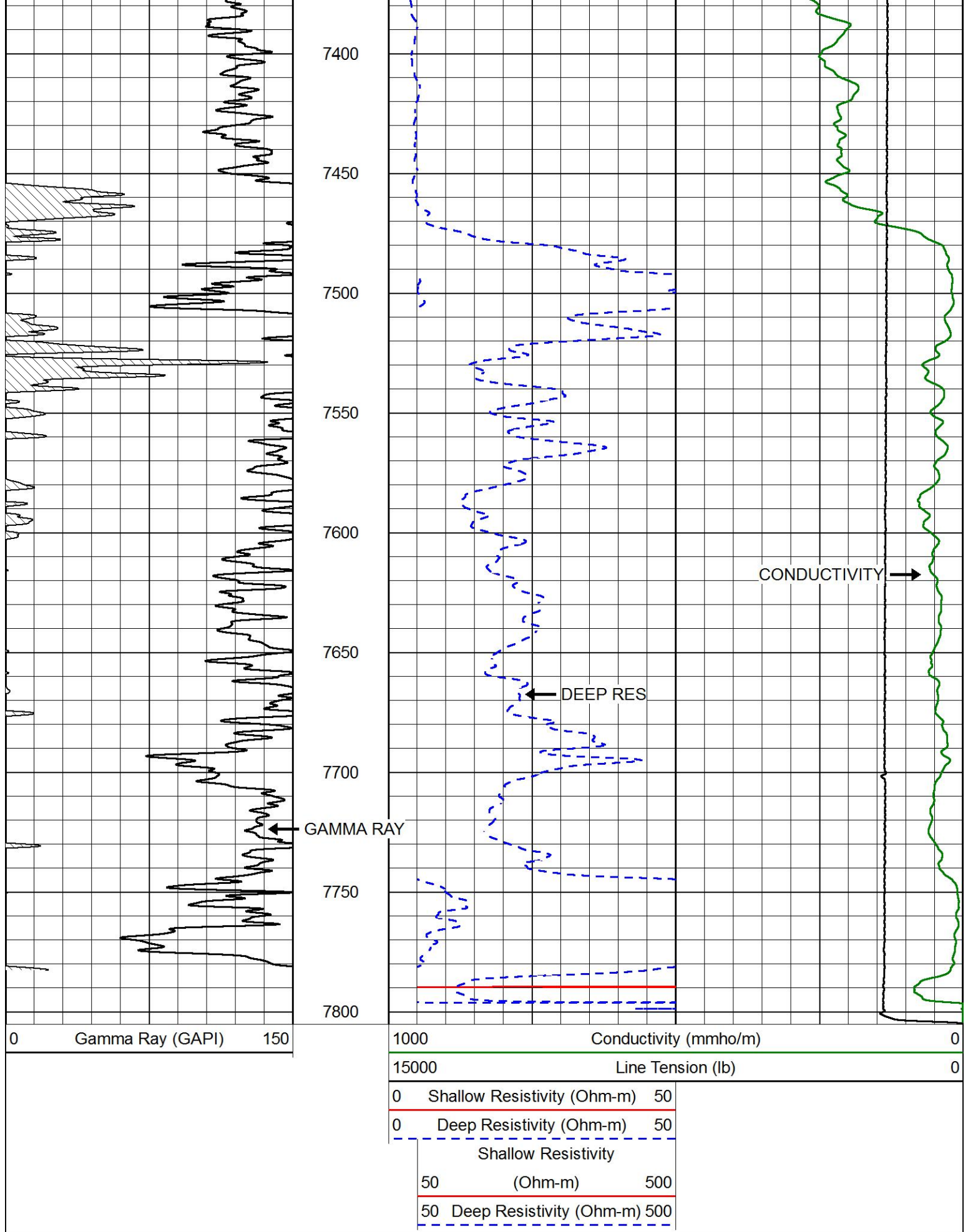
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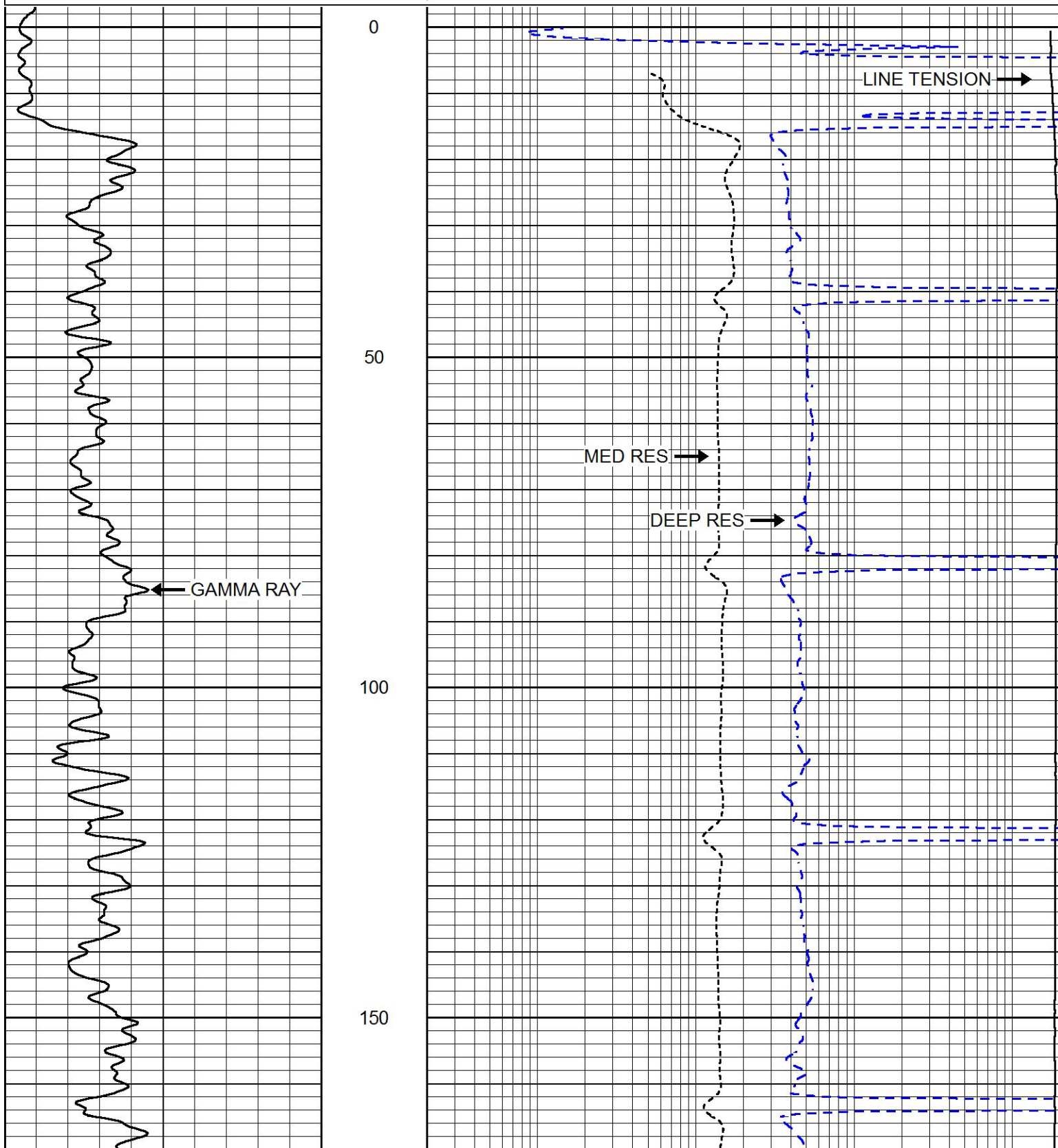
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Dataset Pathname DIL/pass2
Presentation Format dil
Dataset Creation Mon Aug 14 19:14:37 2017
Charted by Depth in Feet scaled 1:240

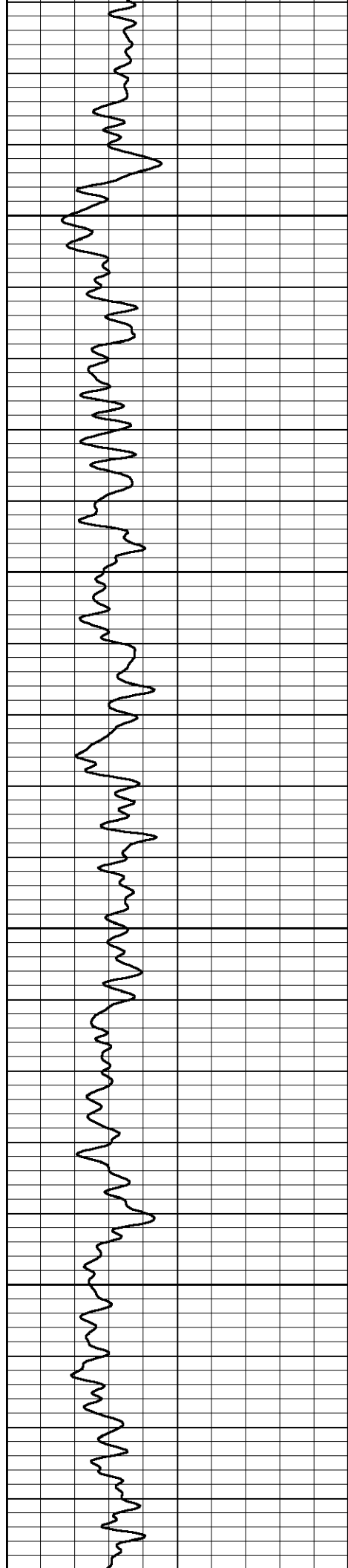
0 Gamma Ray (GAPI) 150

0.2 Deep Resistivity (Ohm-m) 2000

0.2 Medium Resistivity (Ohm-m) 2000

10000 Line Tension (lb) 0



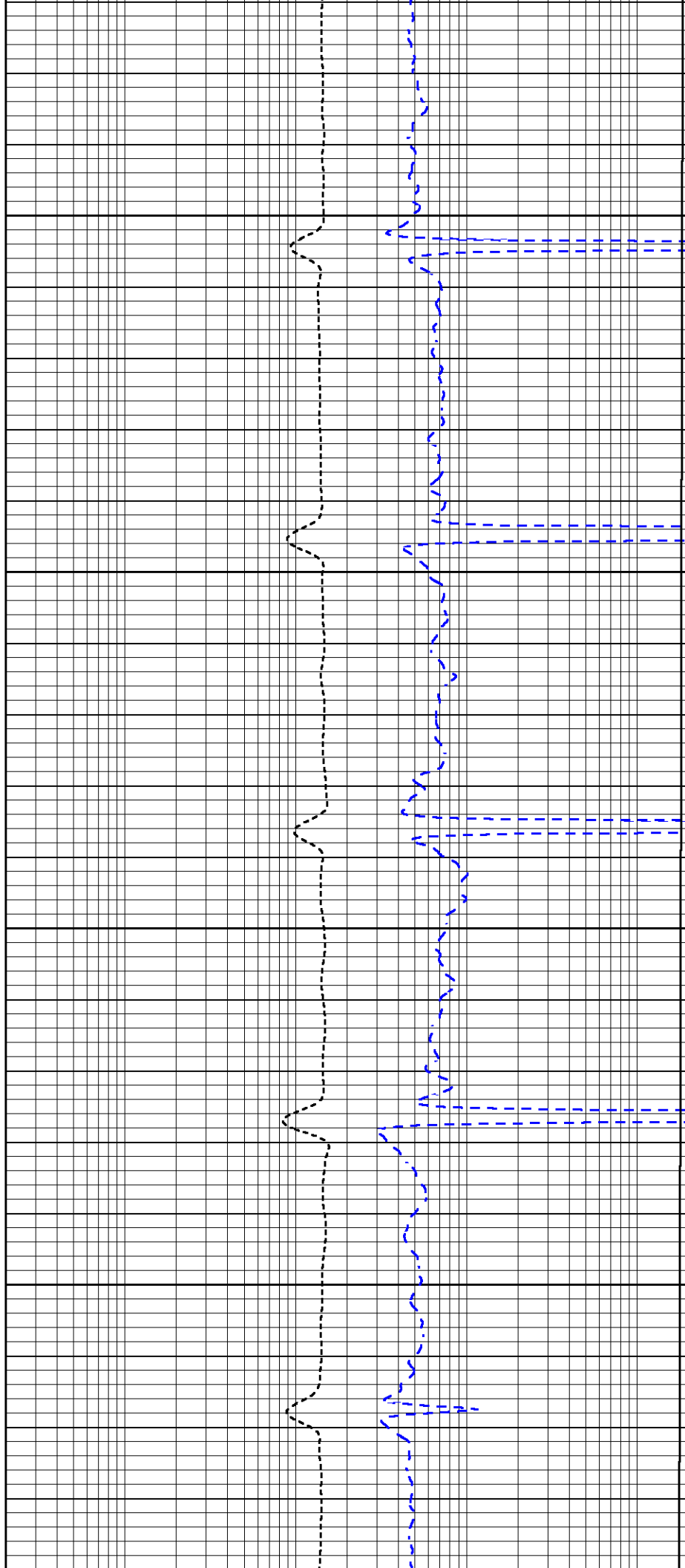


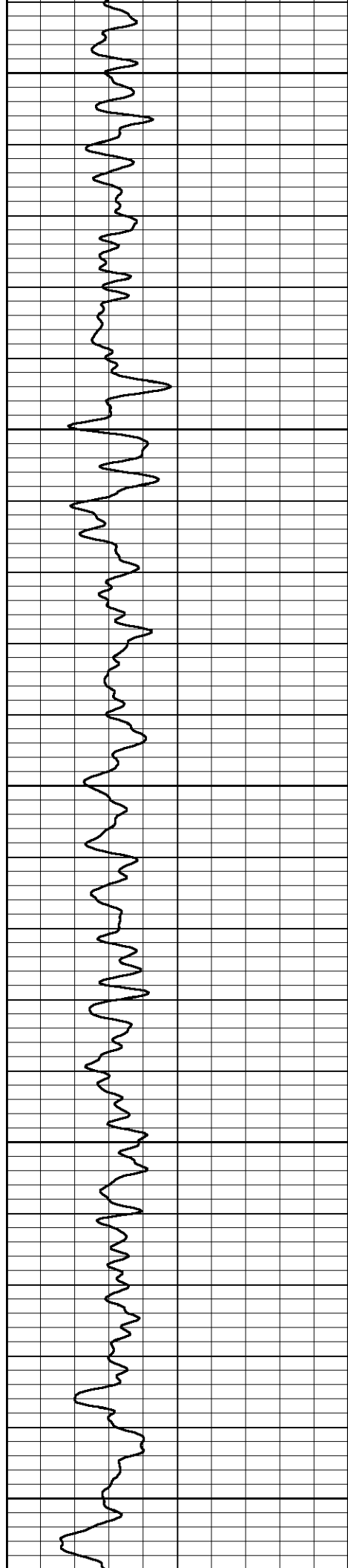
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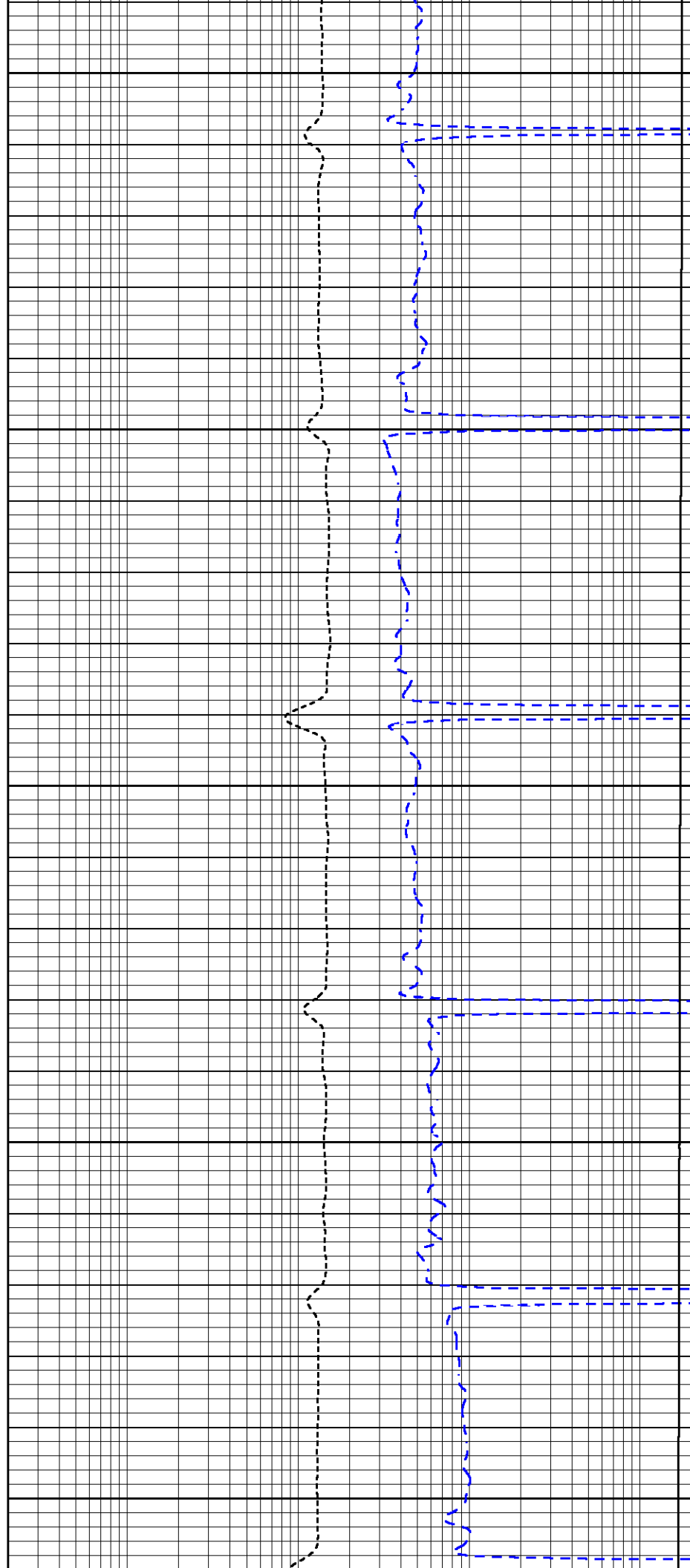
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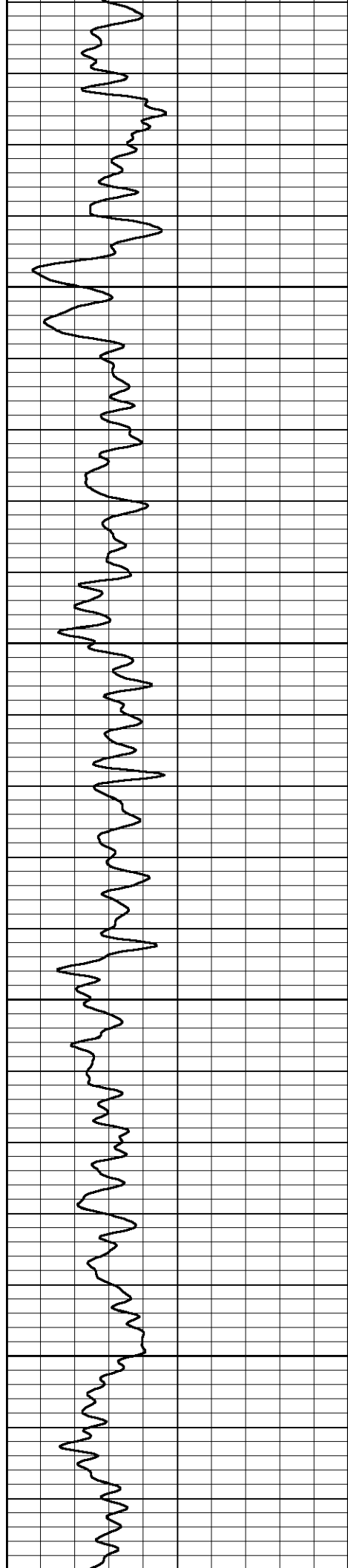
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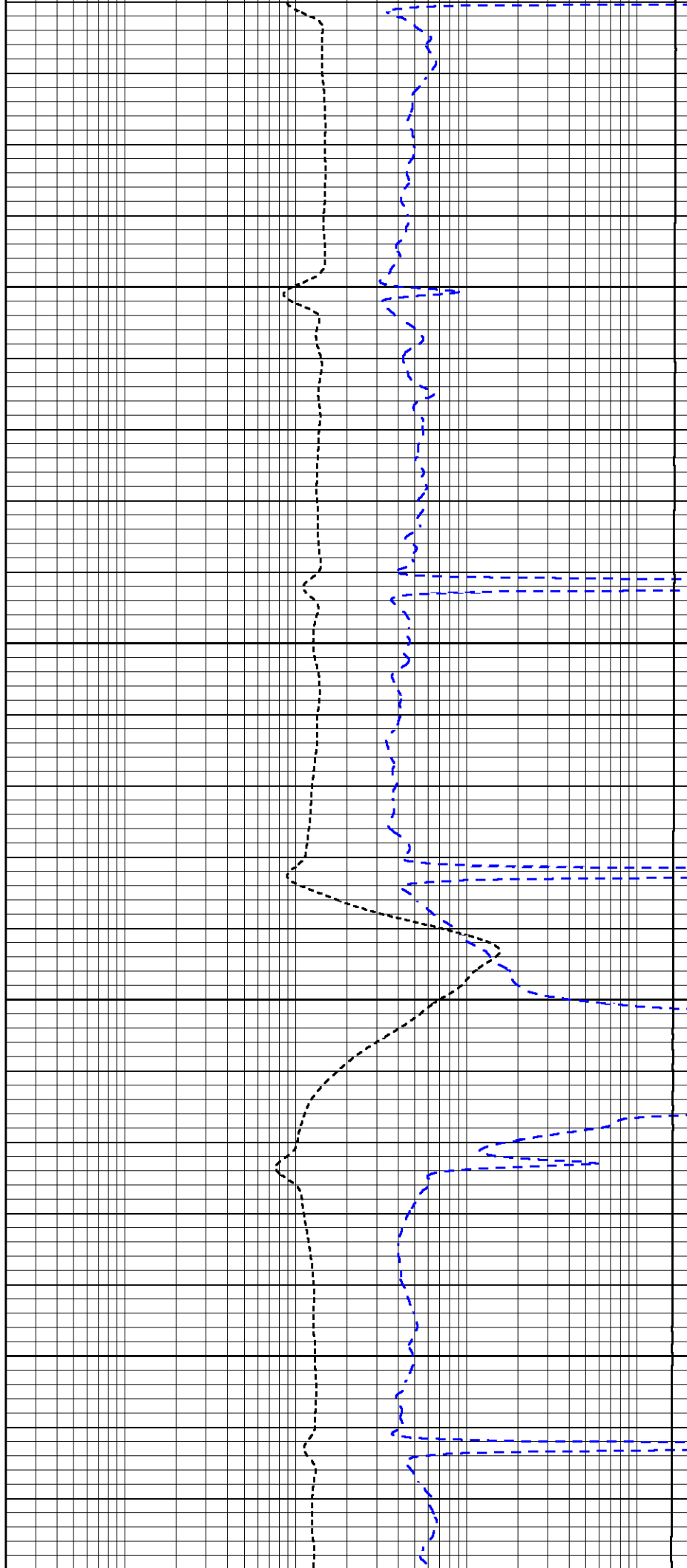


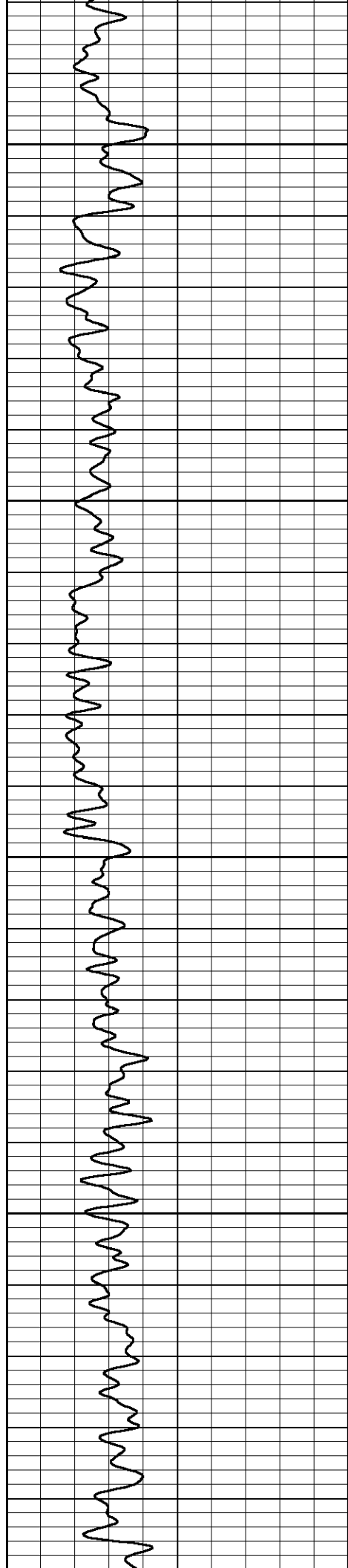
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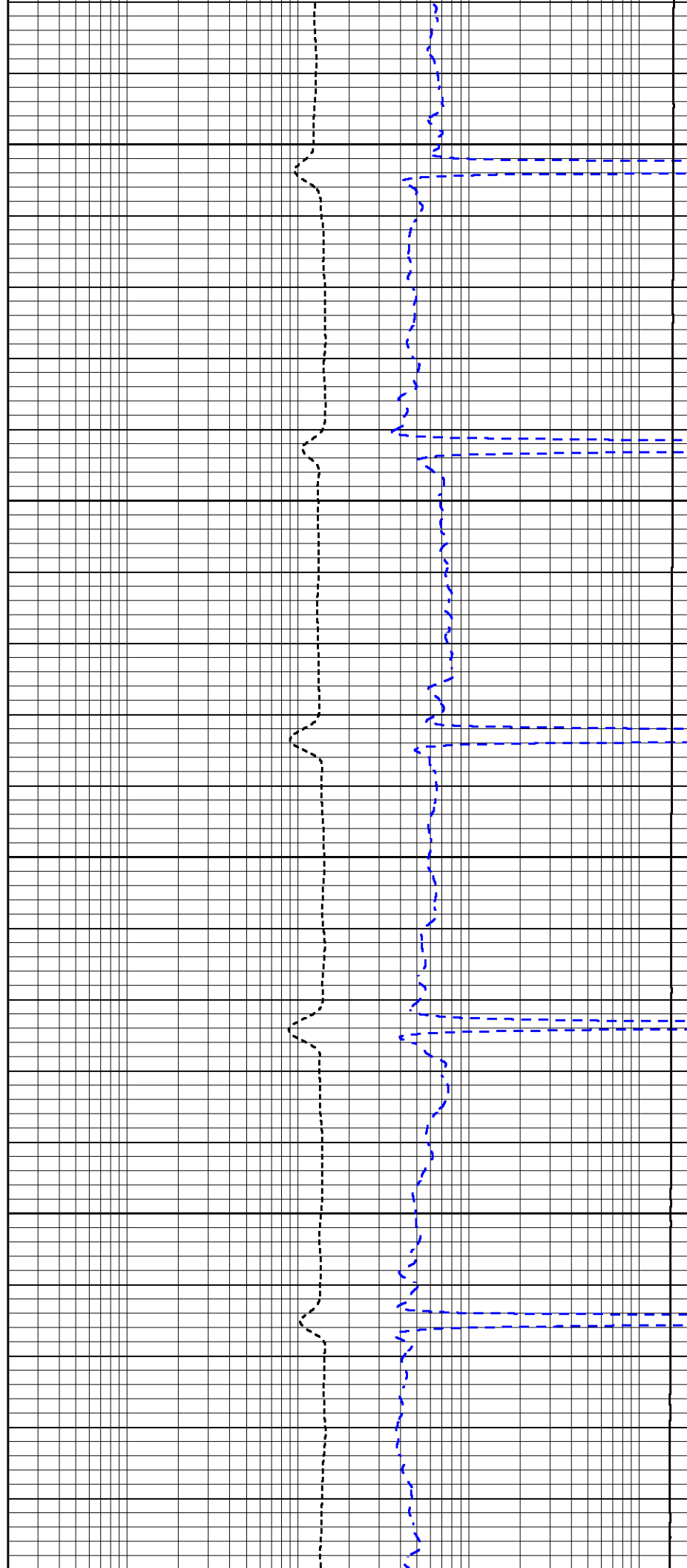
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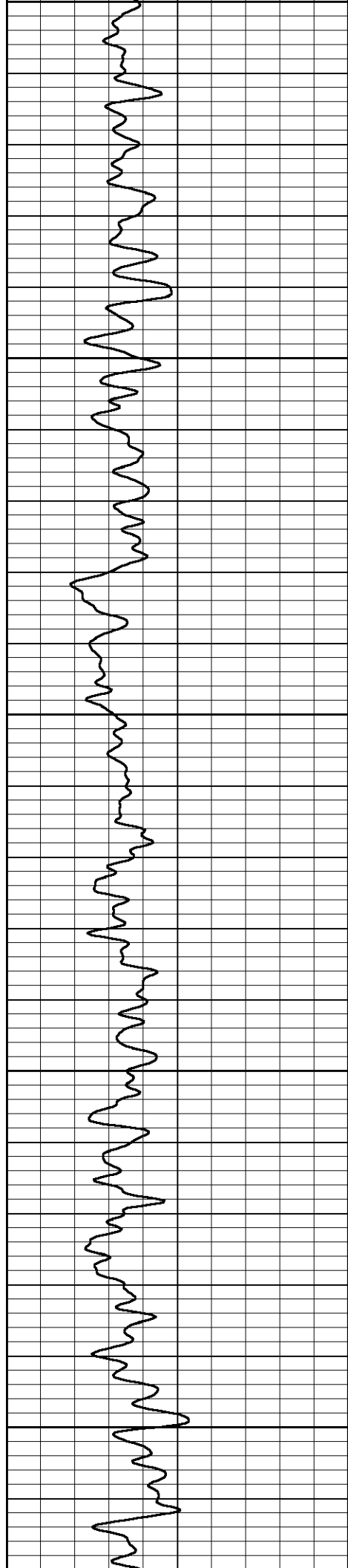
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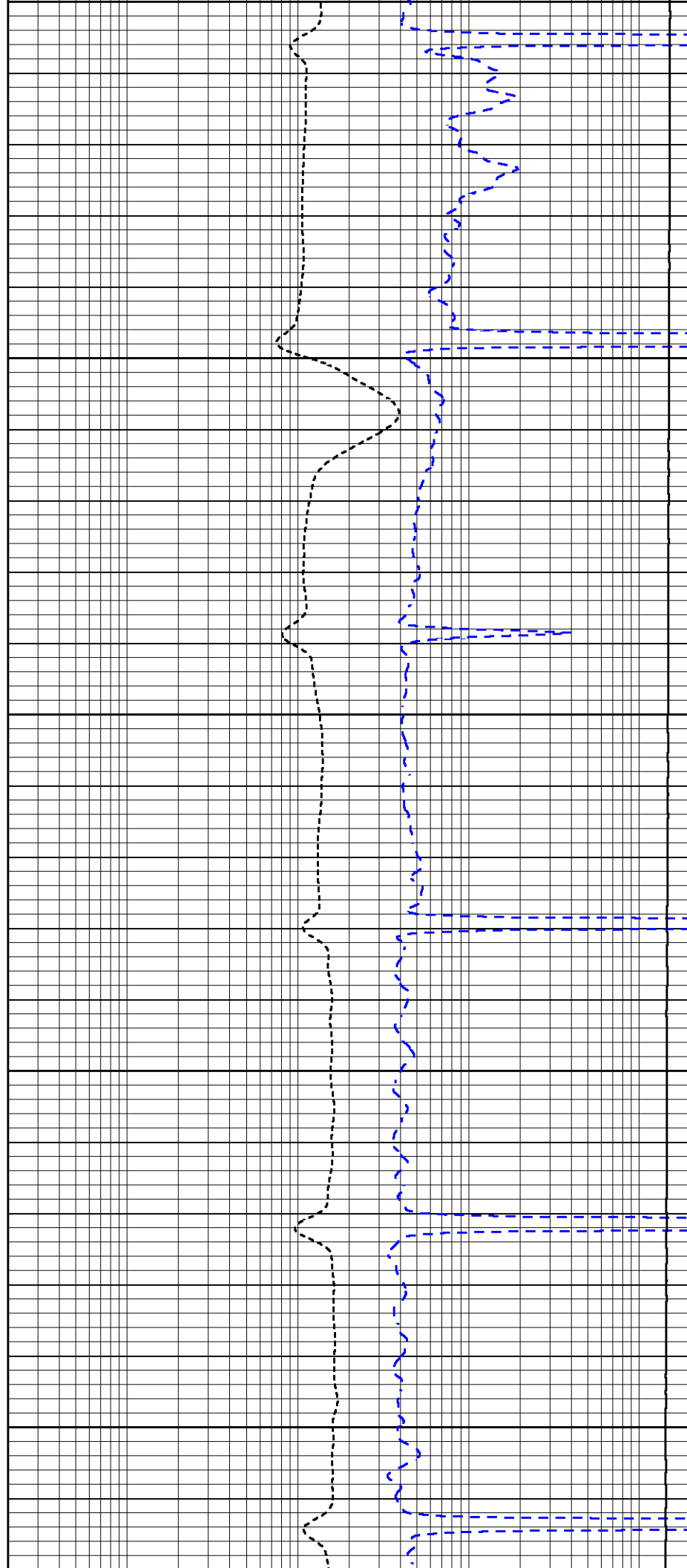
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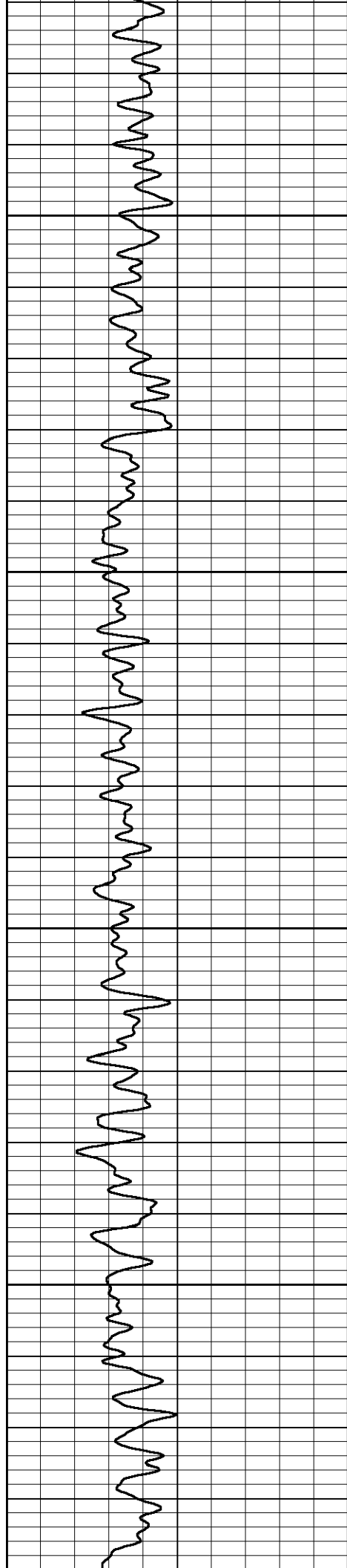
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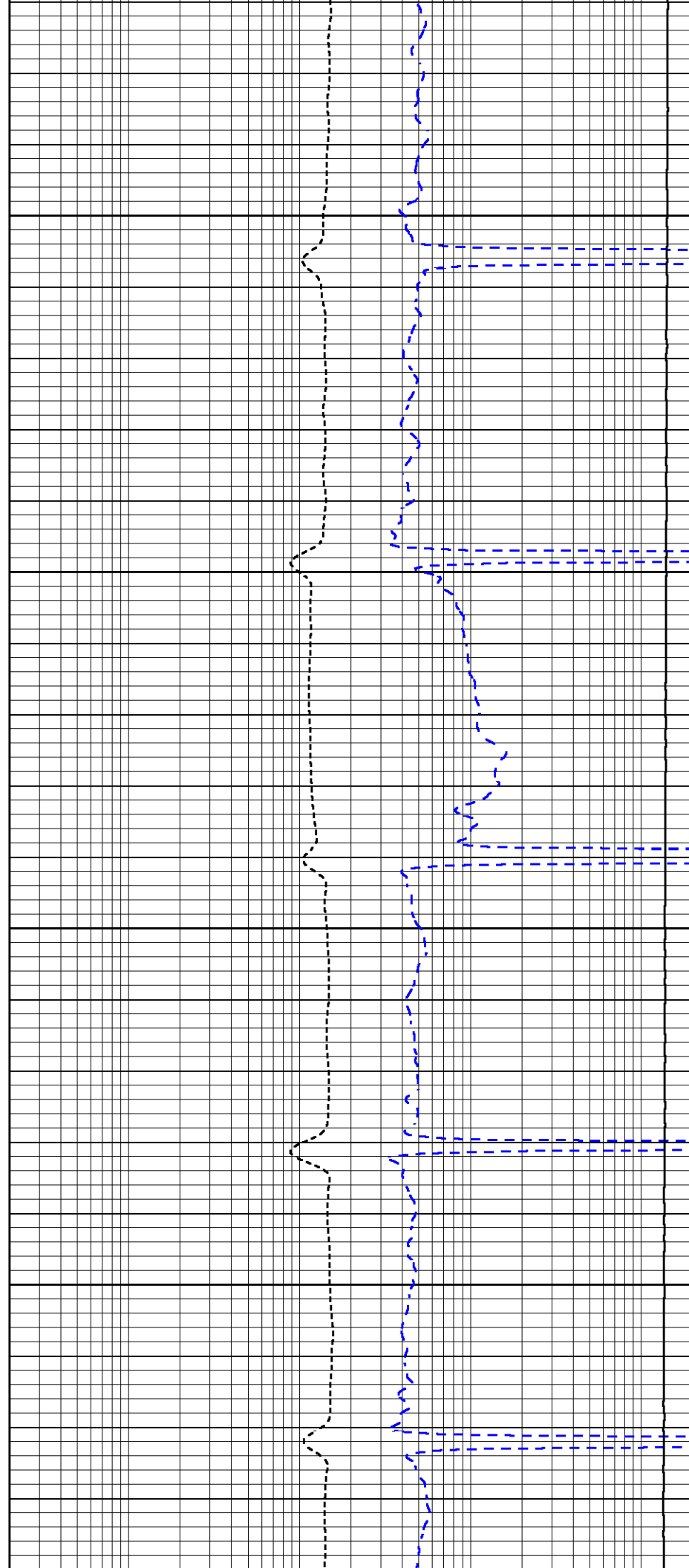


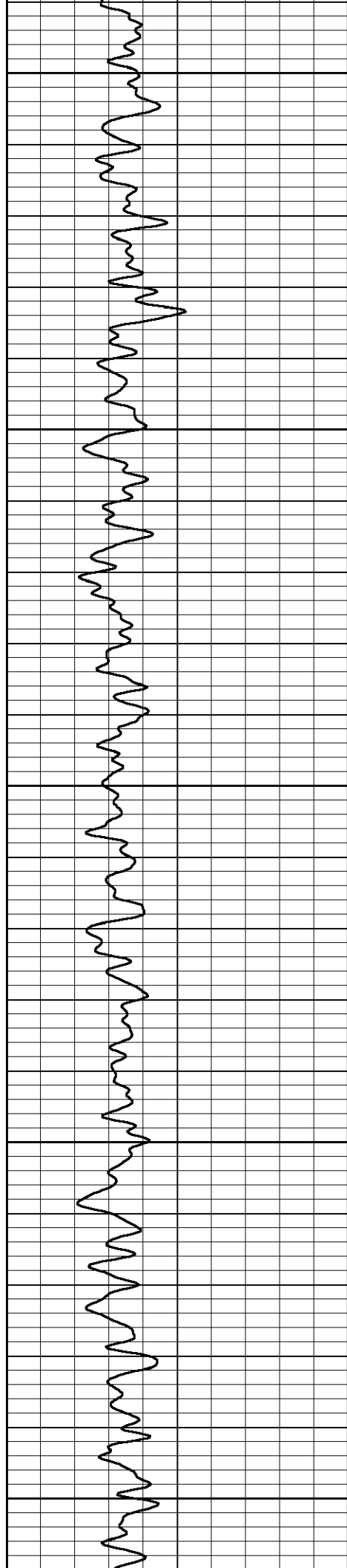
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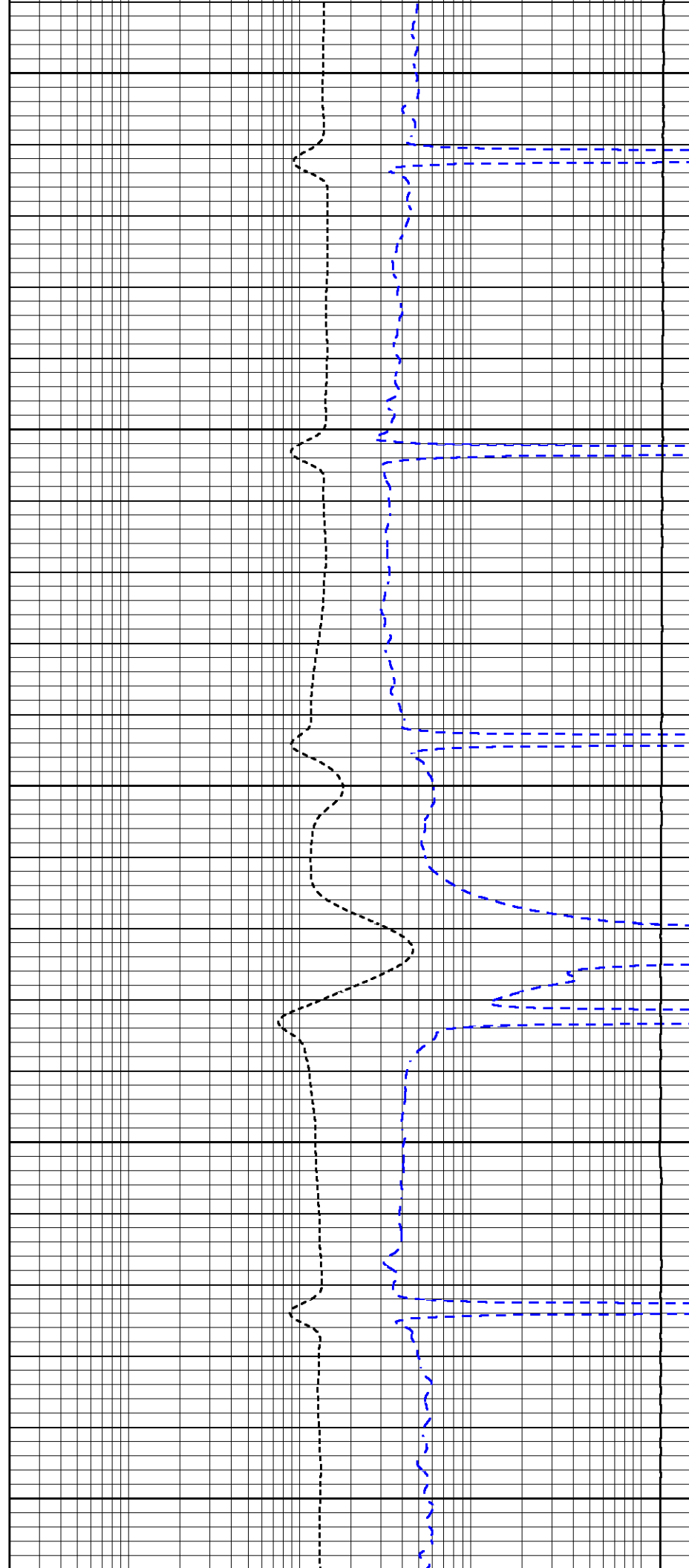
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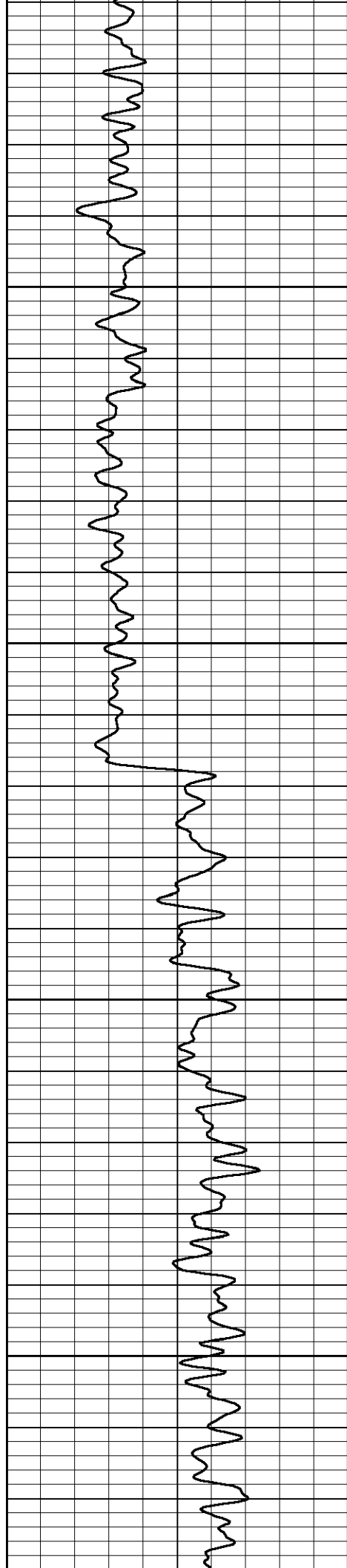
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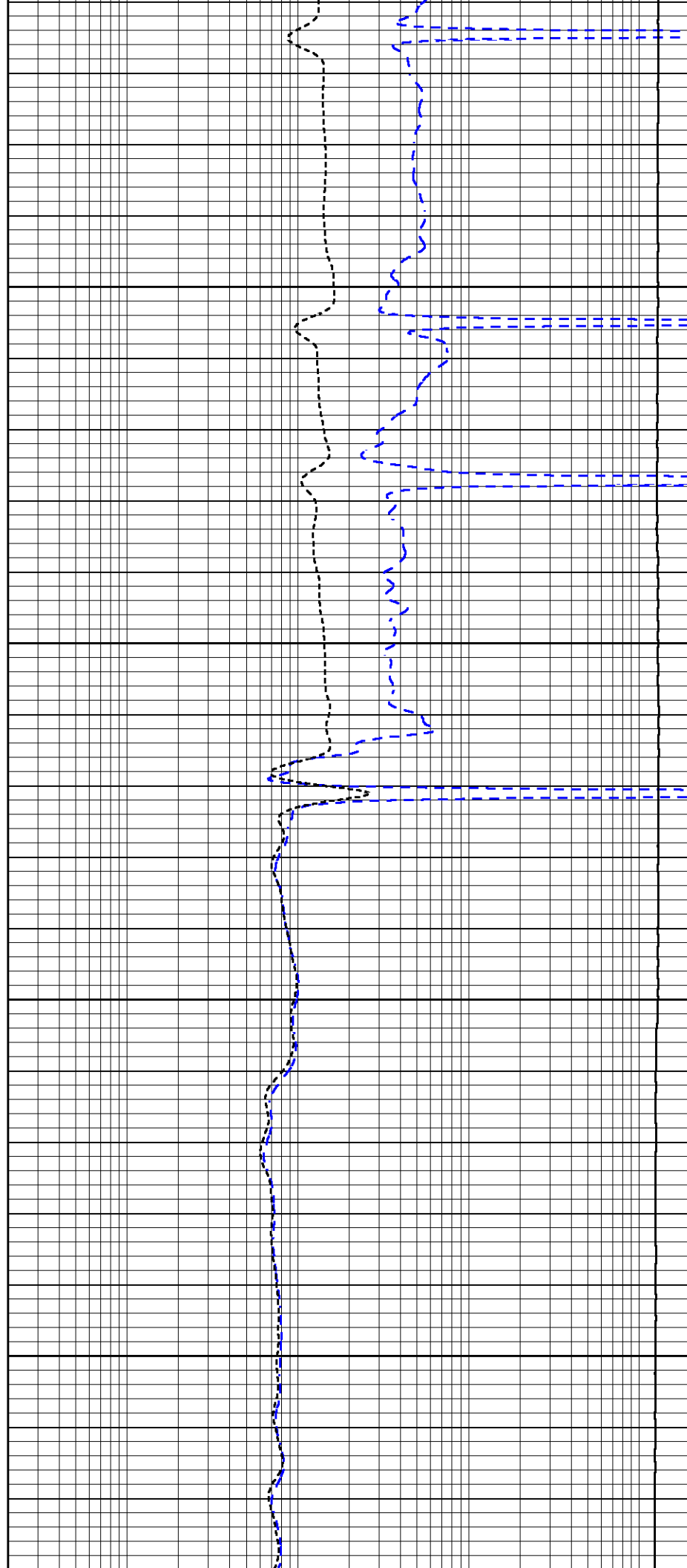


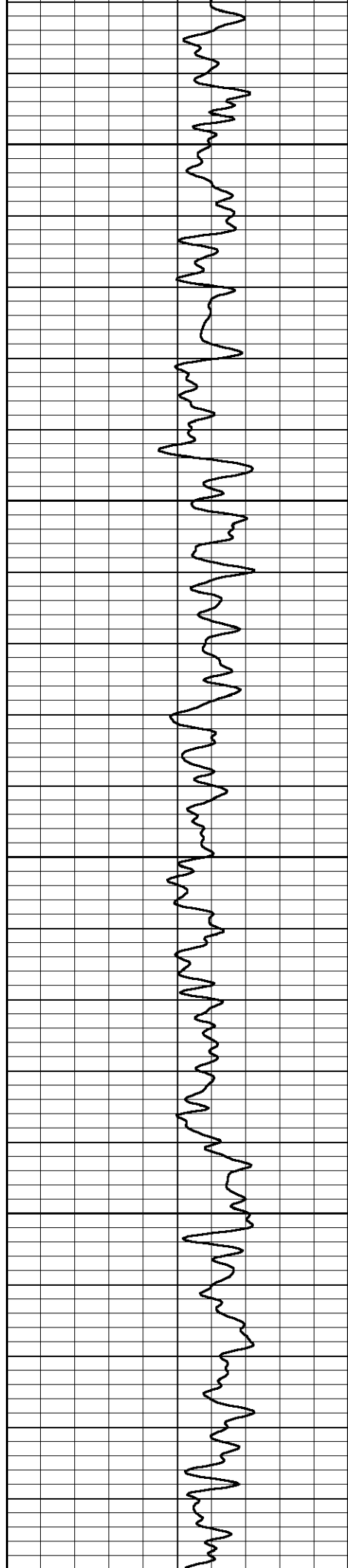
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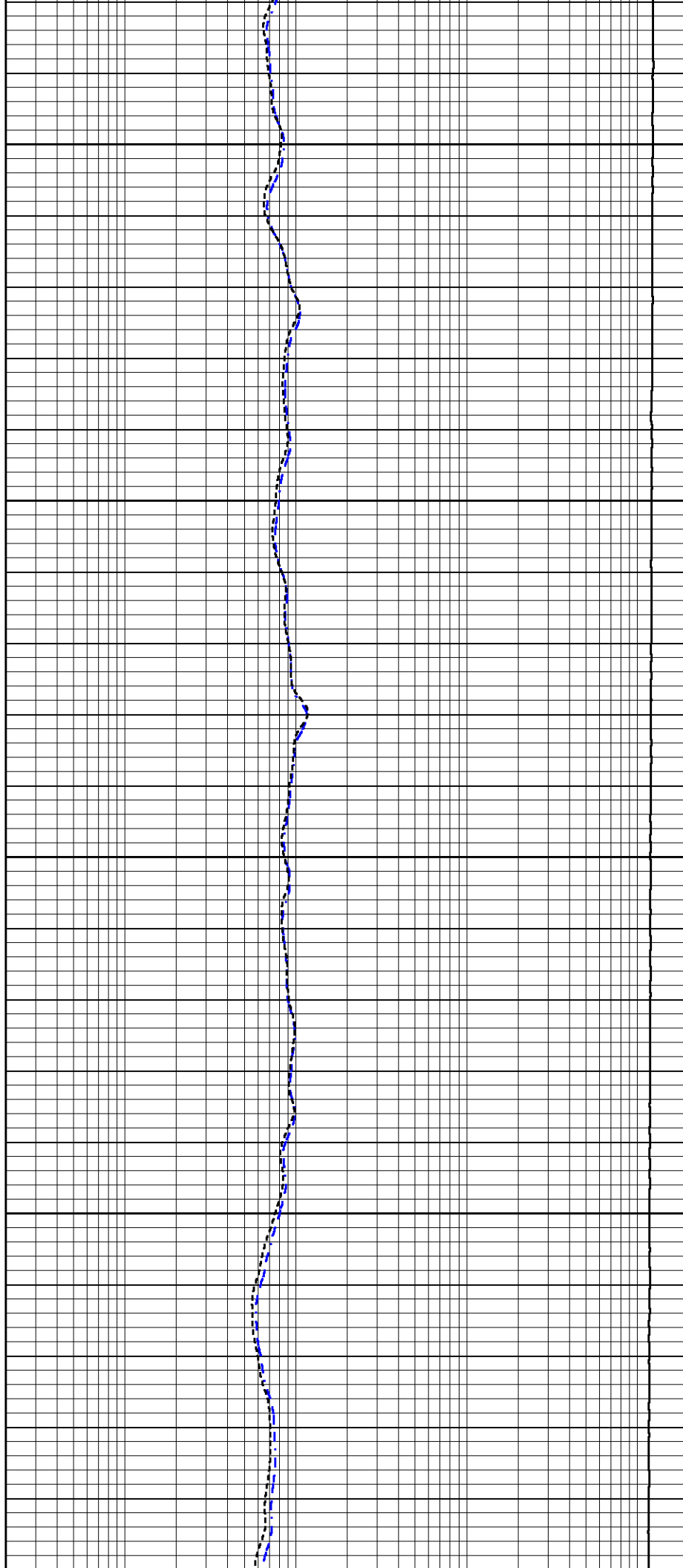
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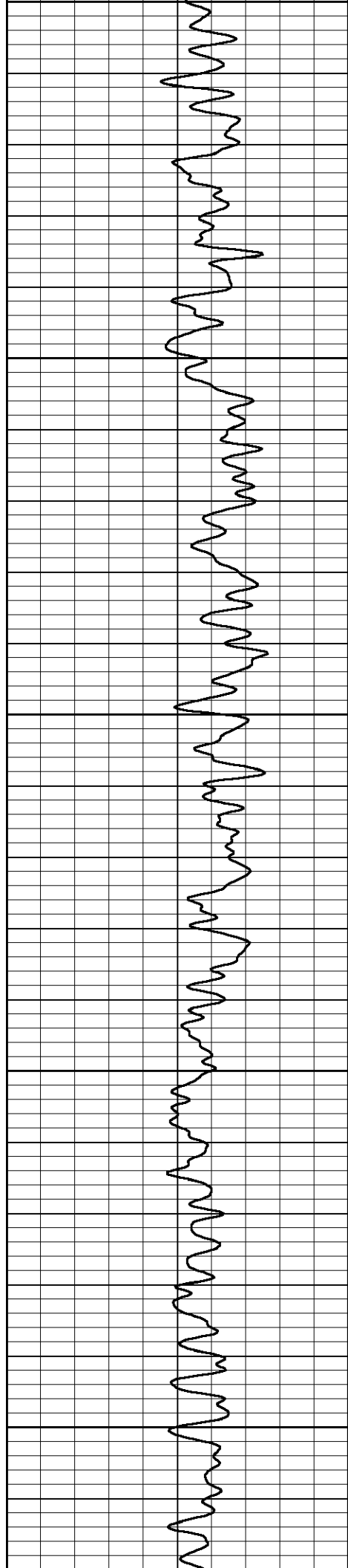
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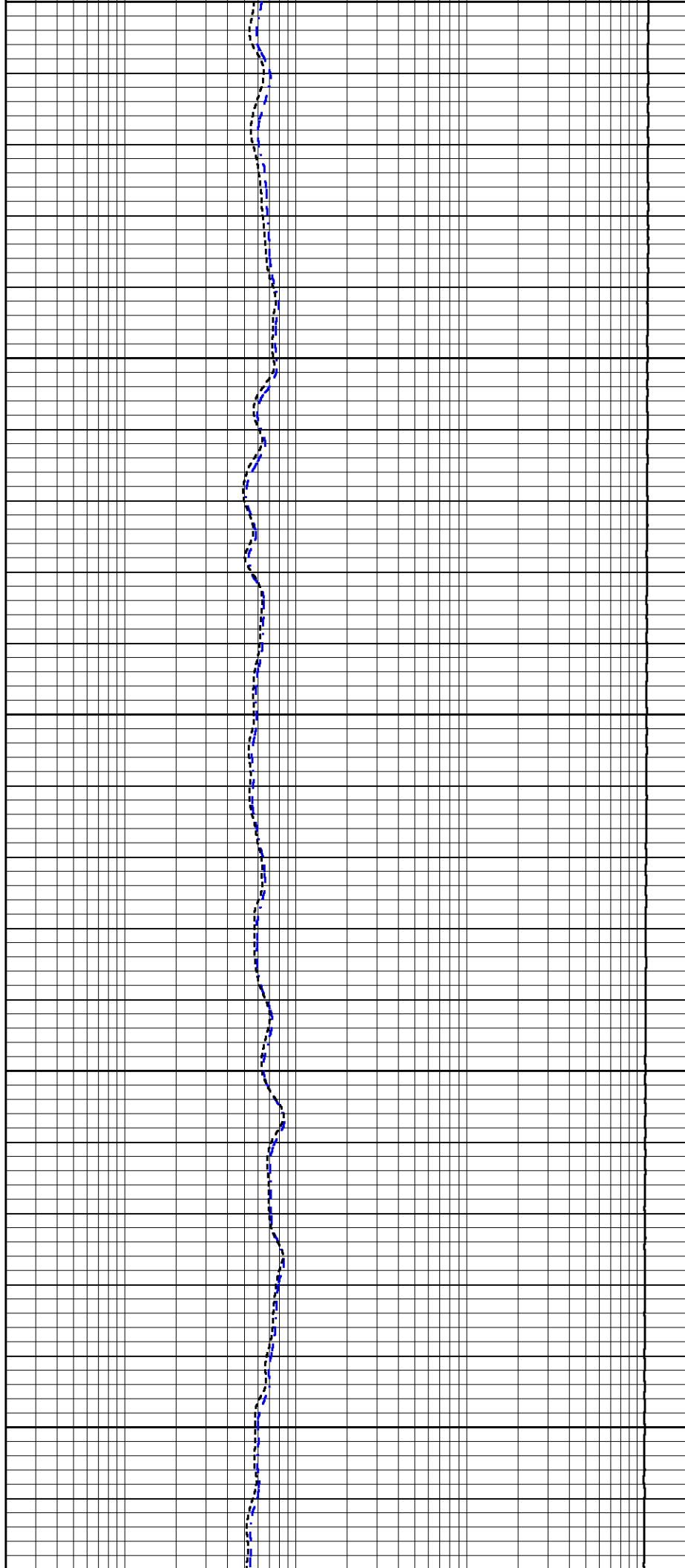
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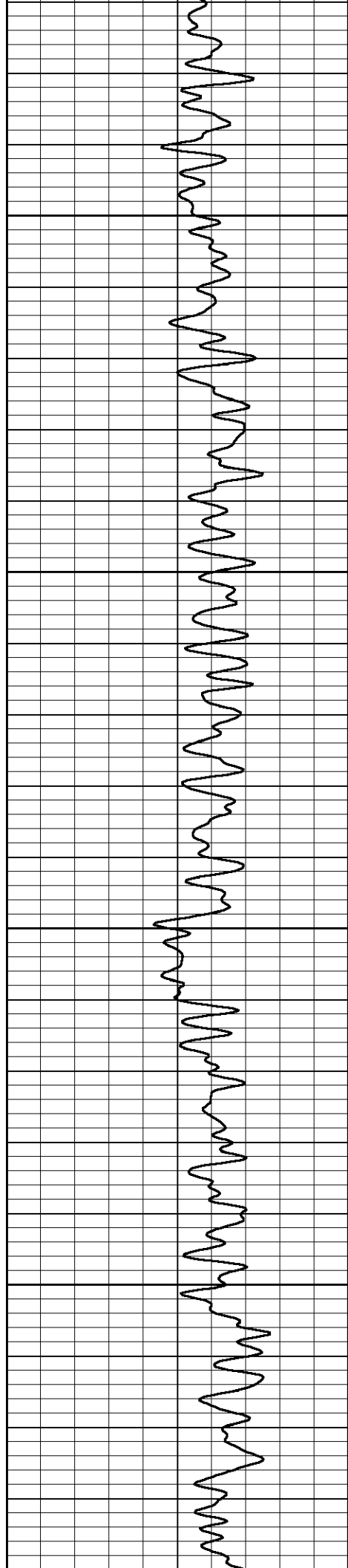
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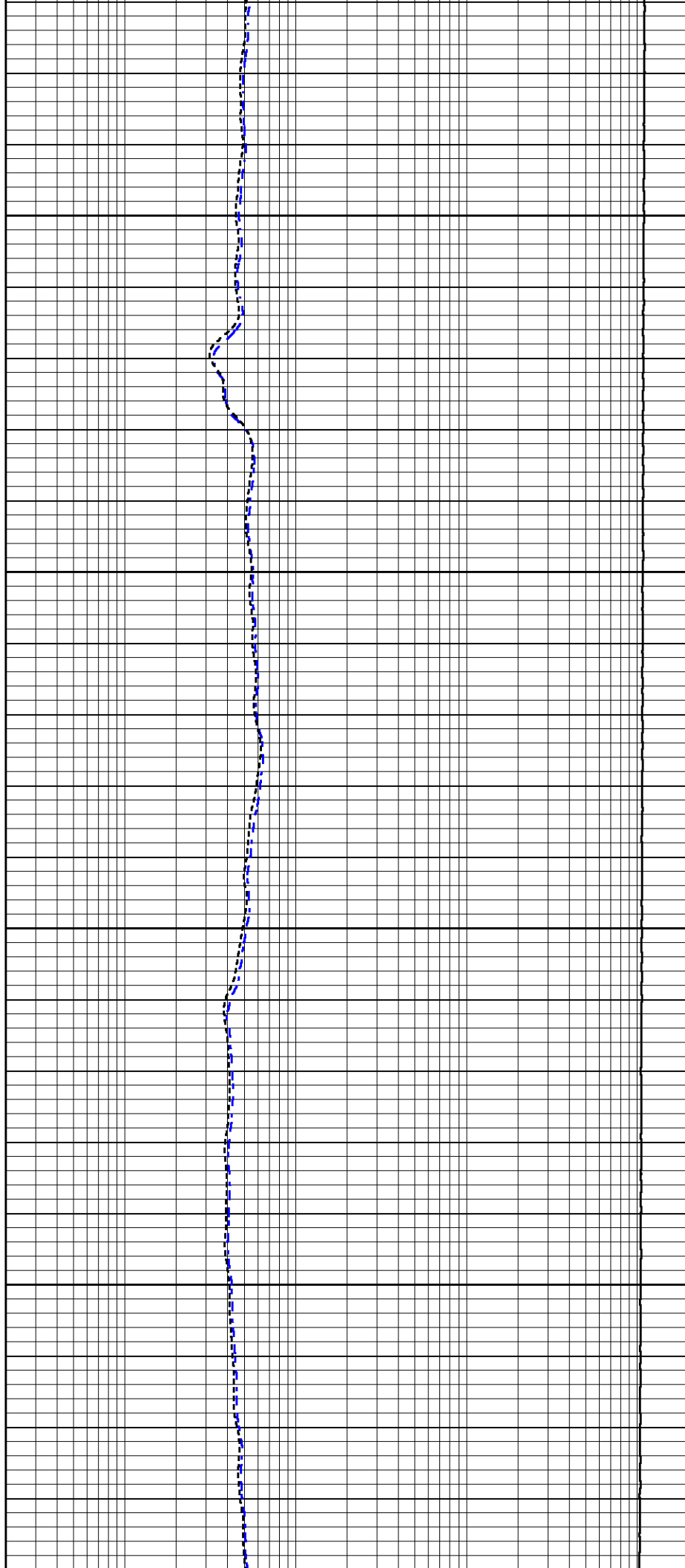


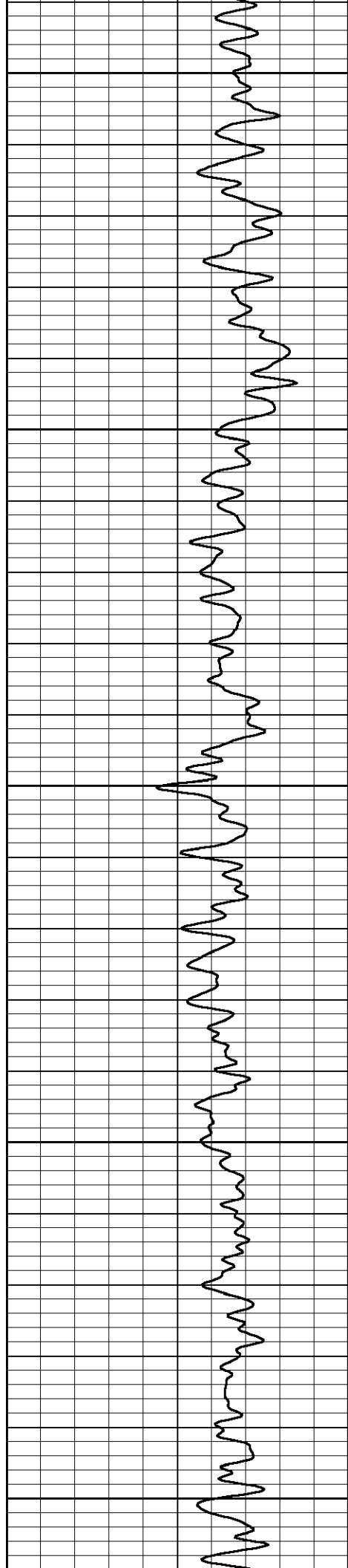
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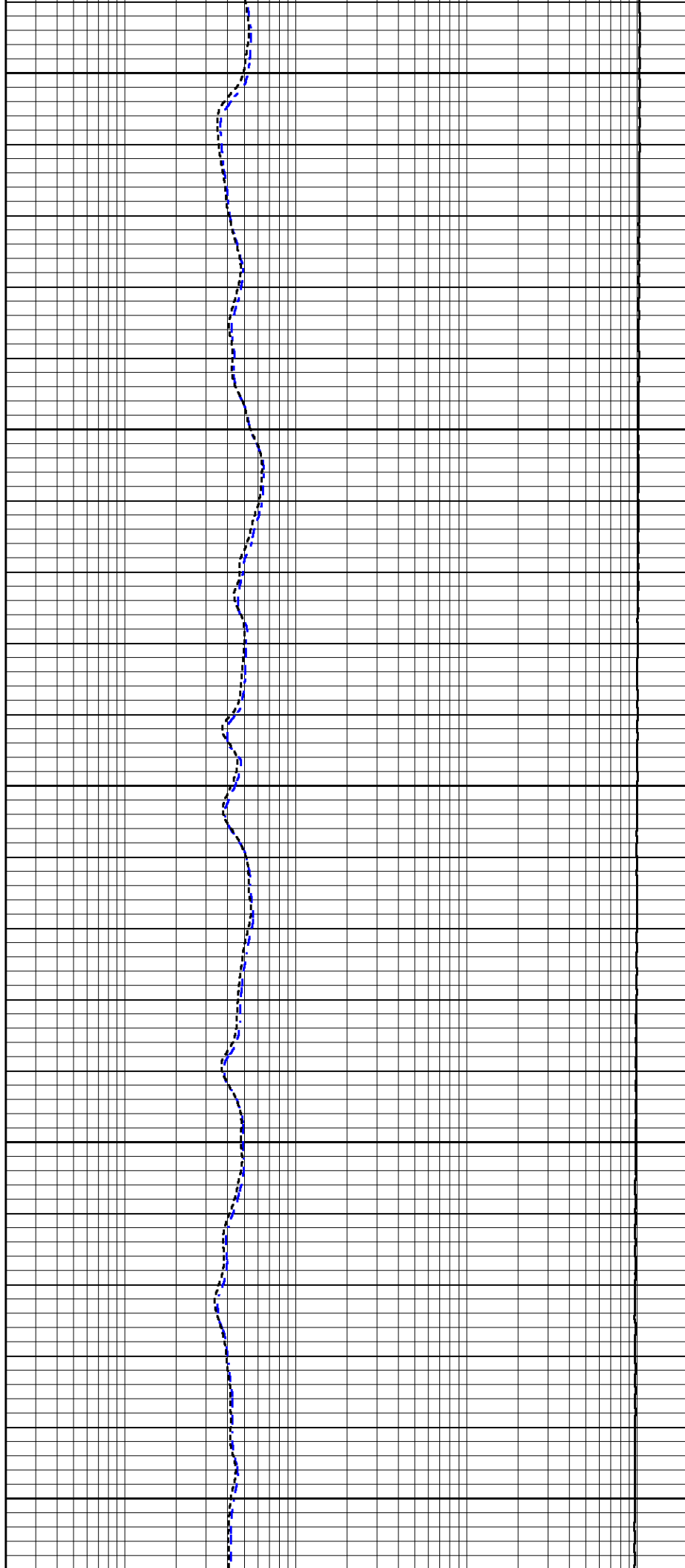
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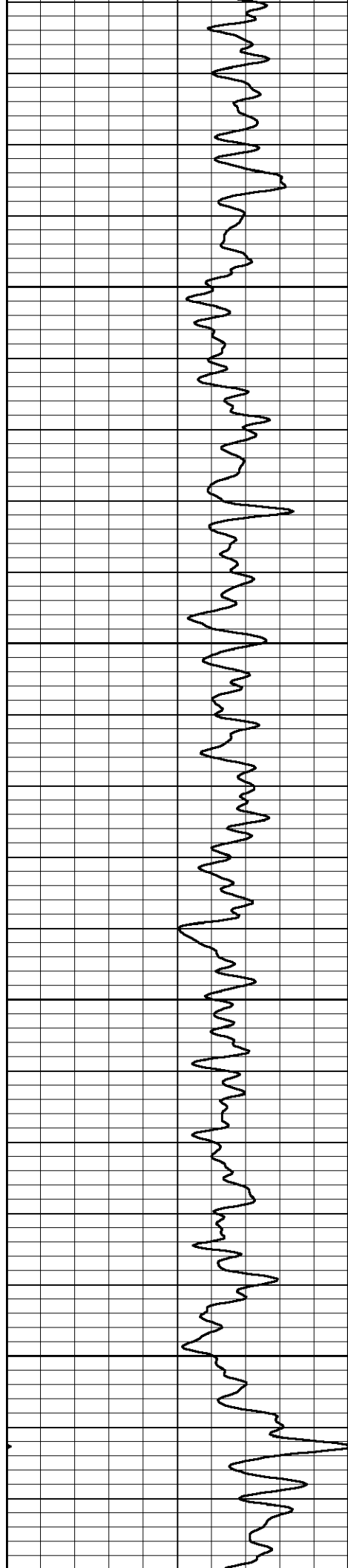
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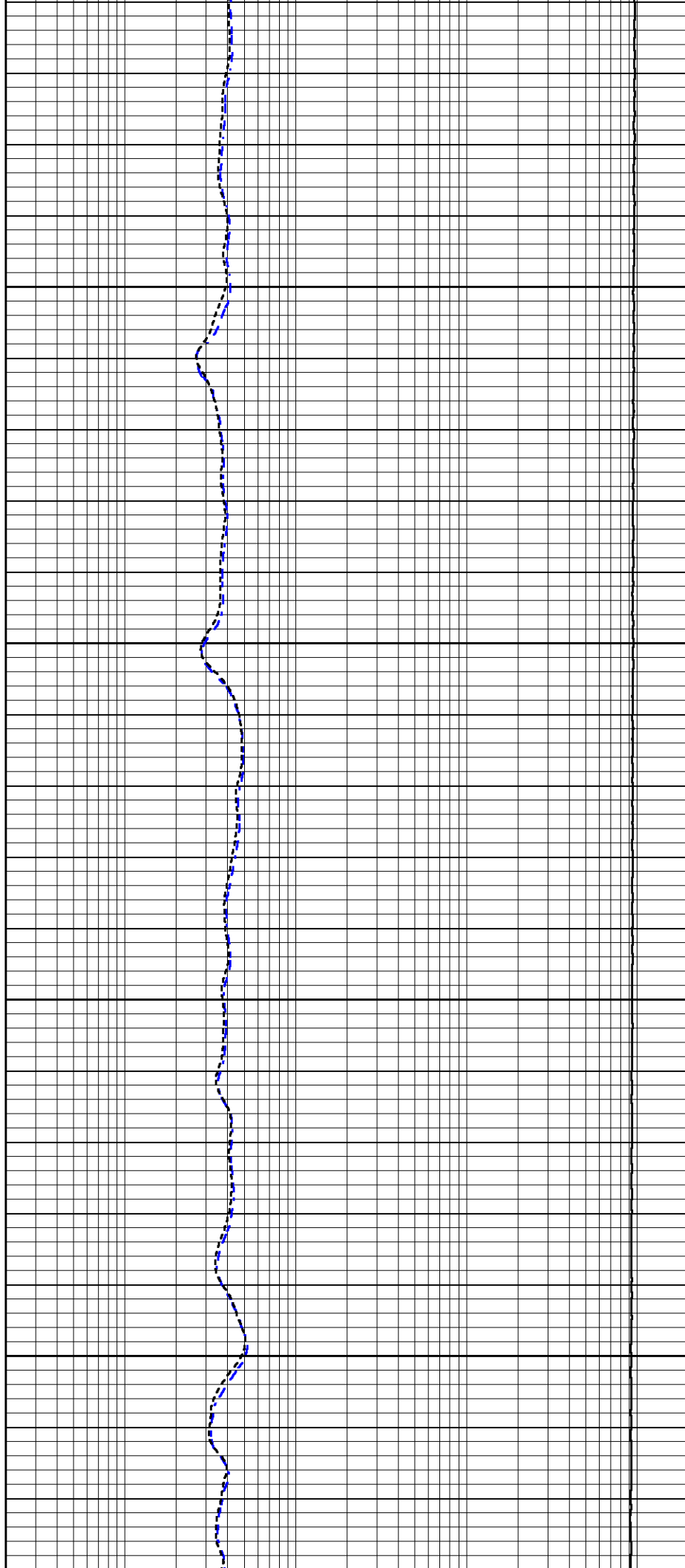


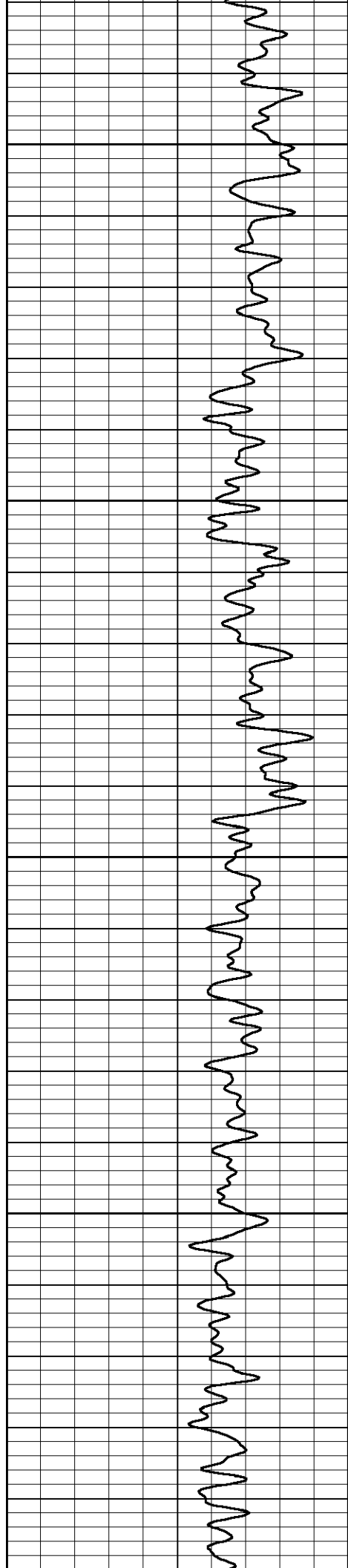
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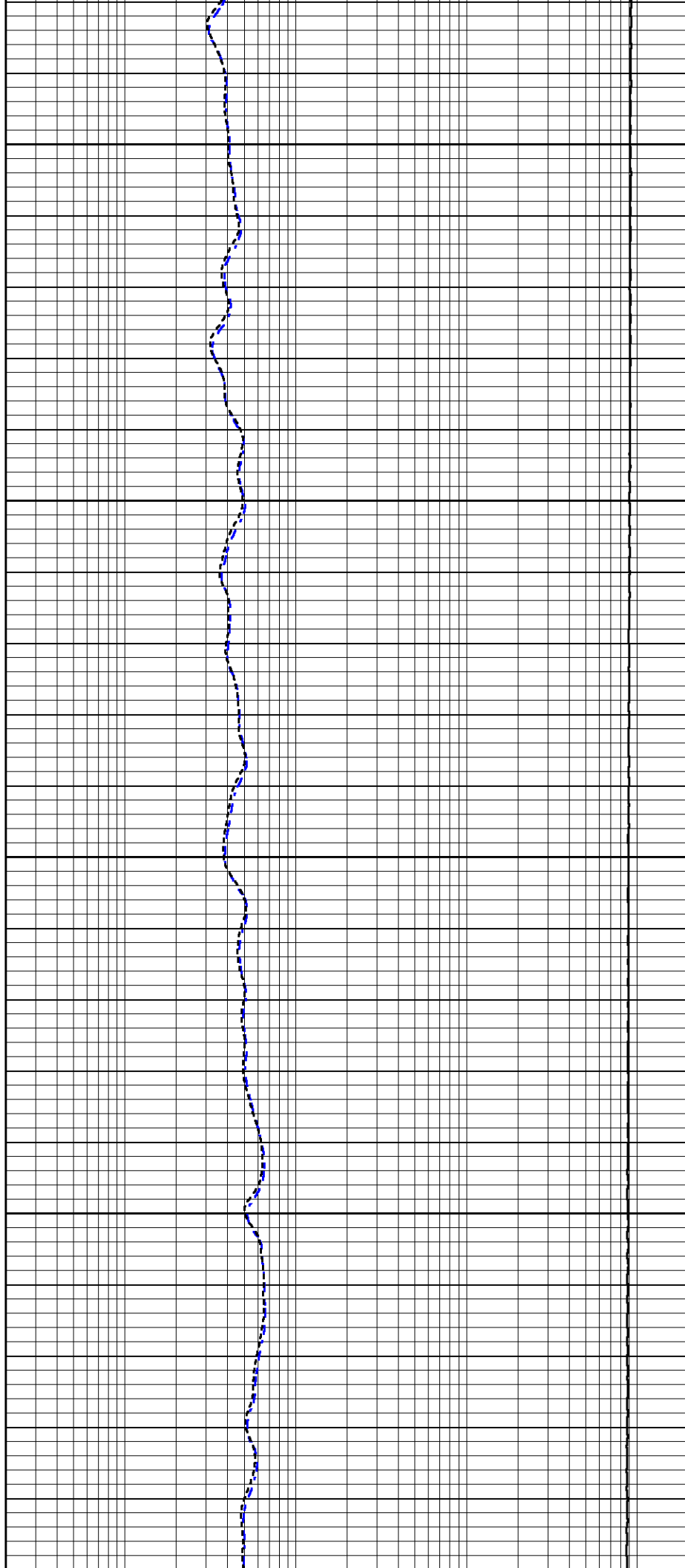
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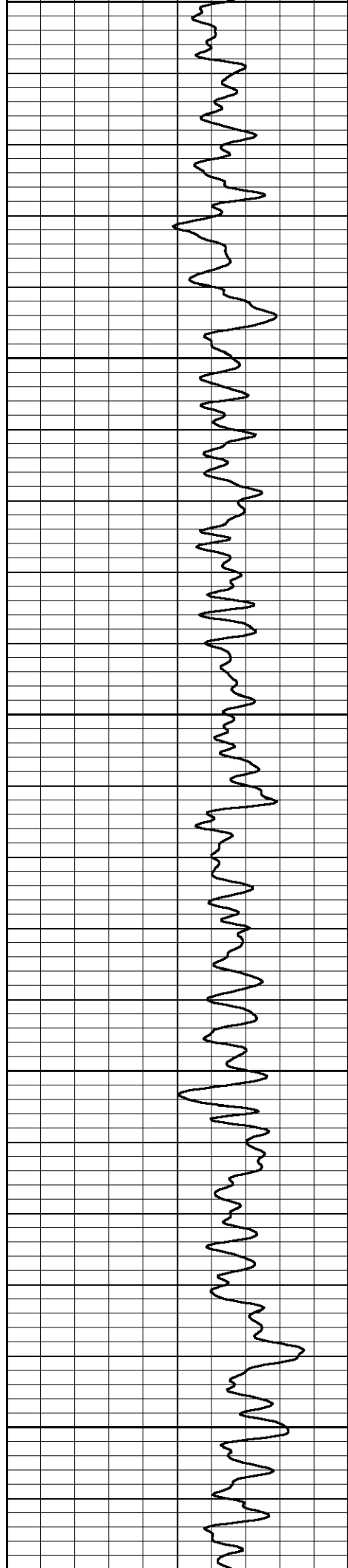
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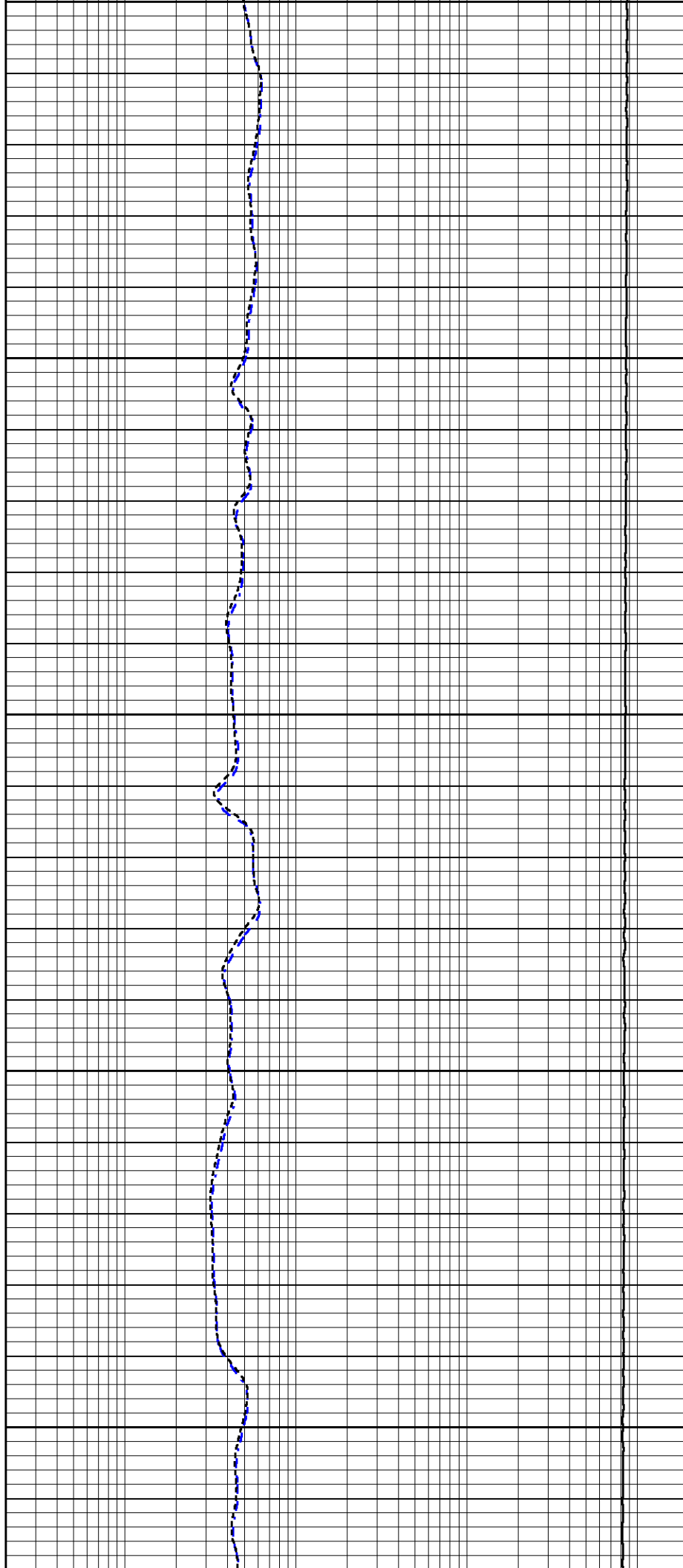
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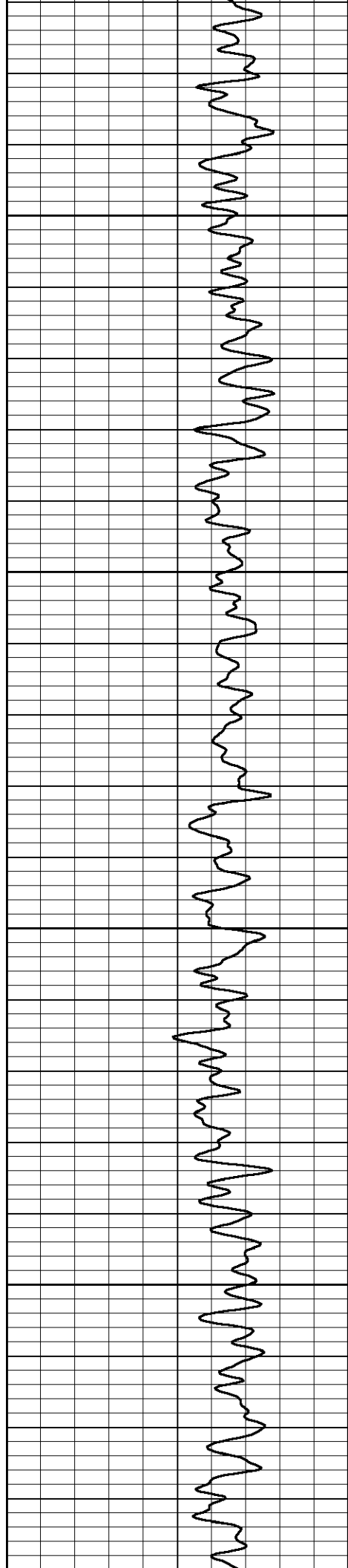
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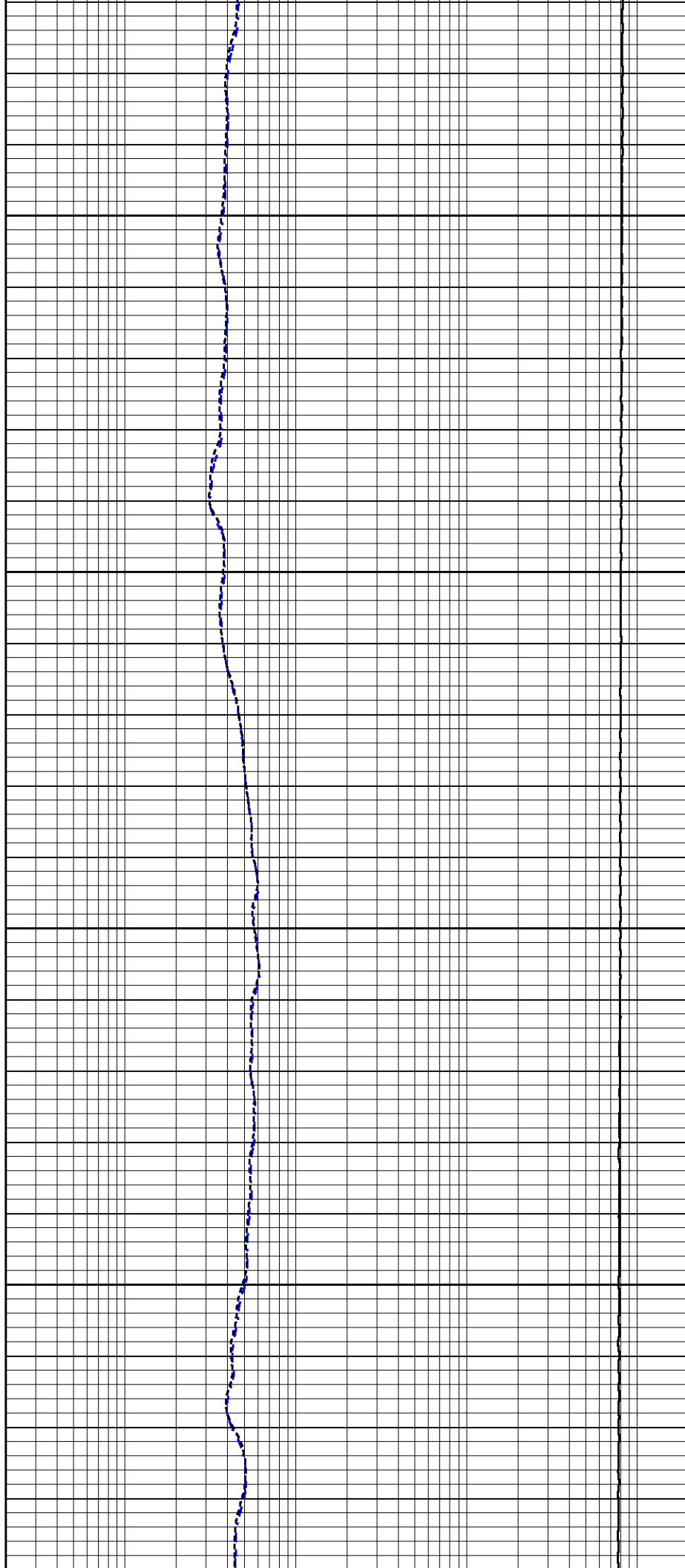


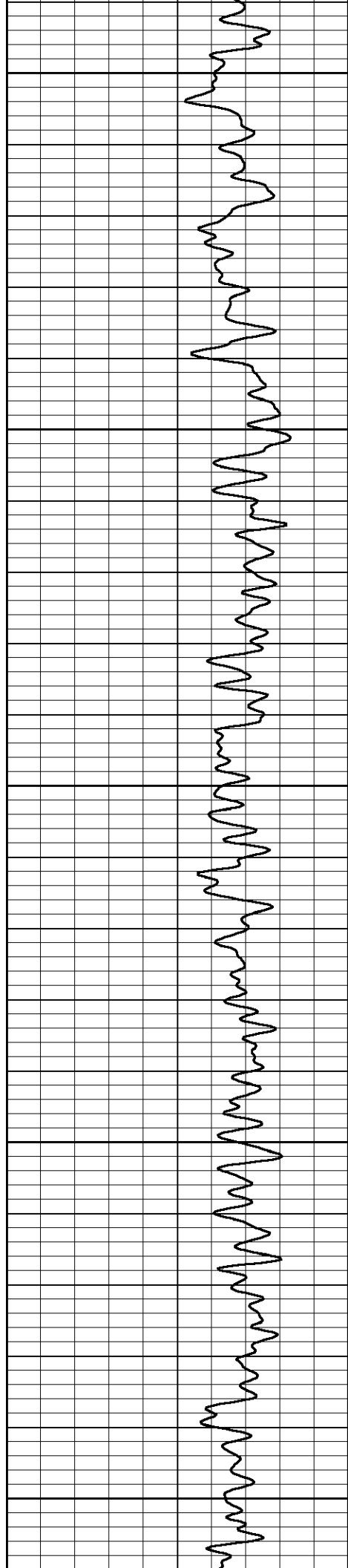
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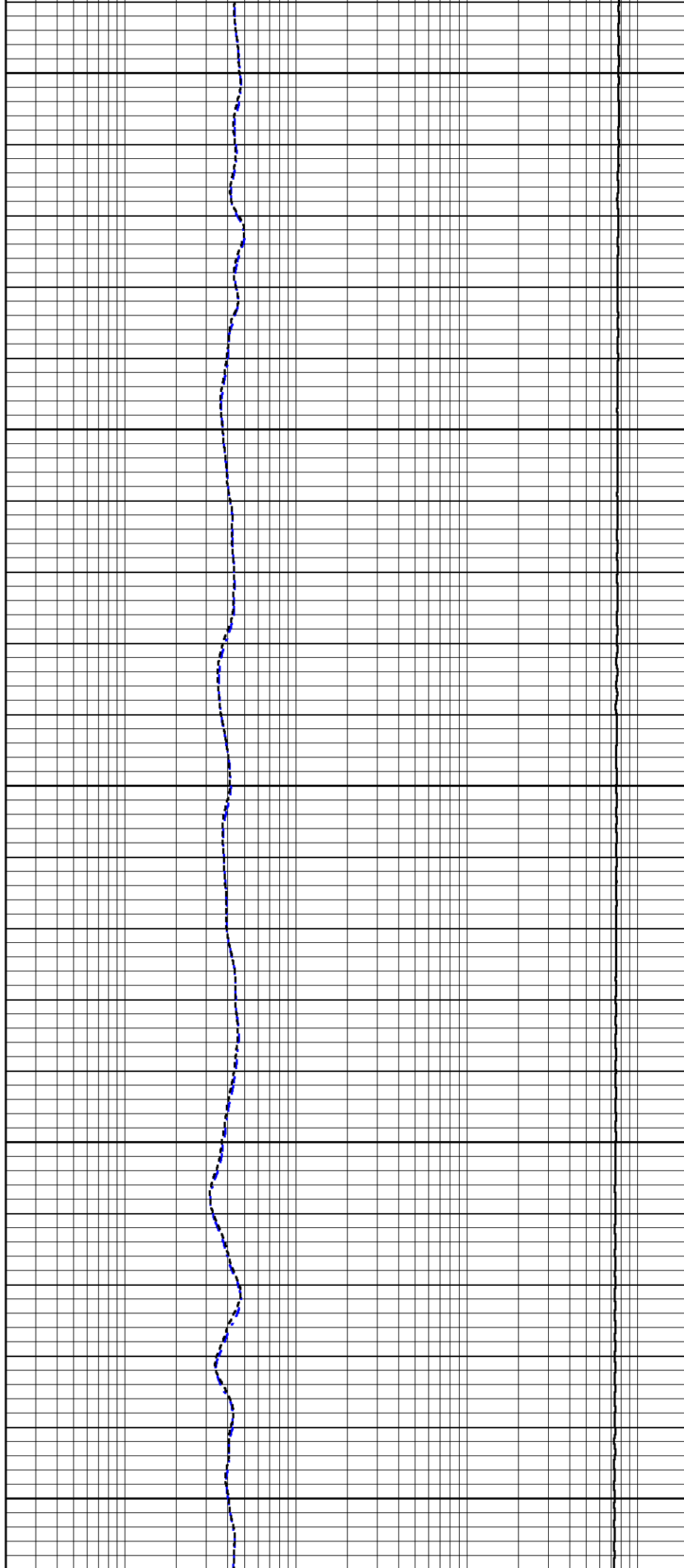
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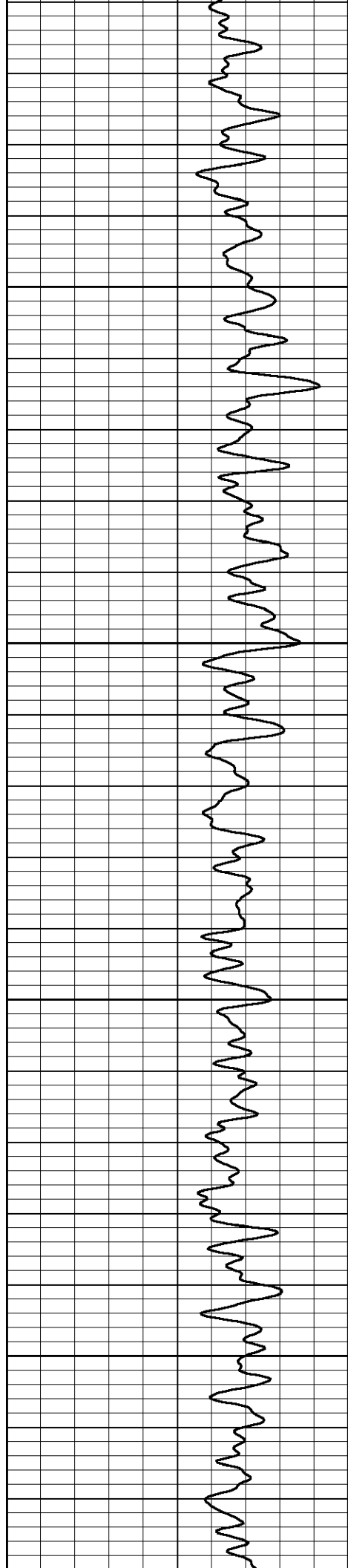
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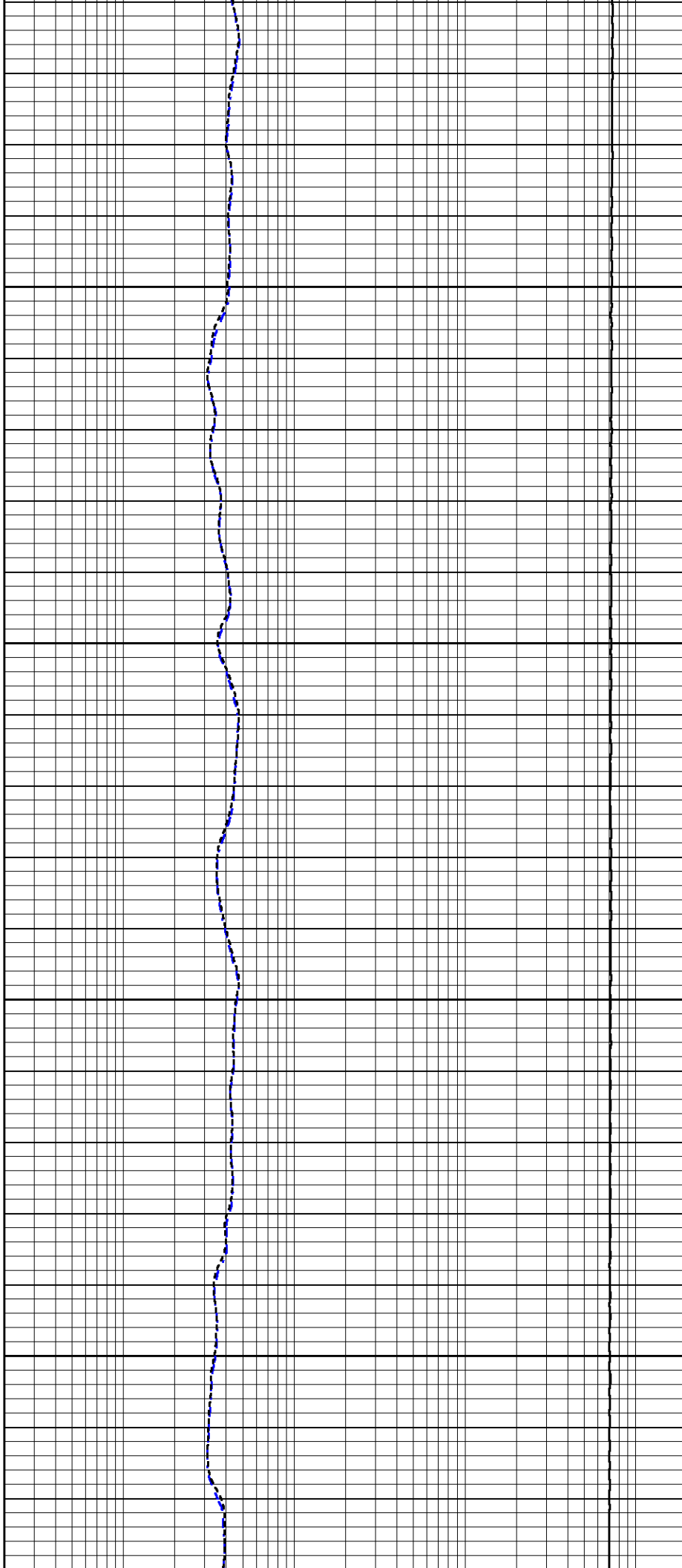


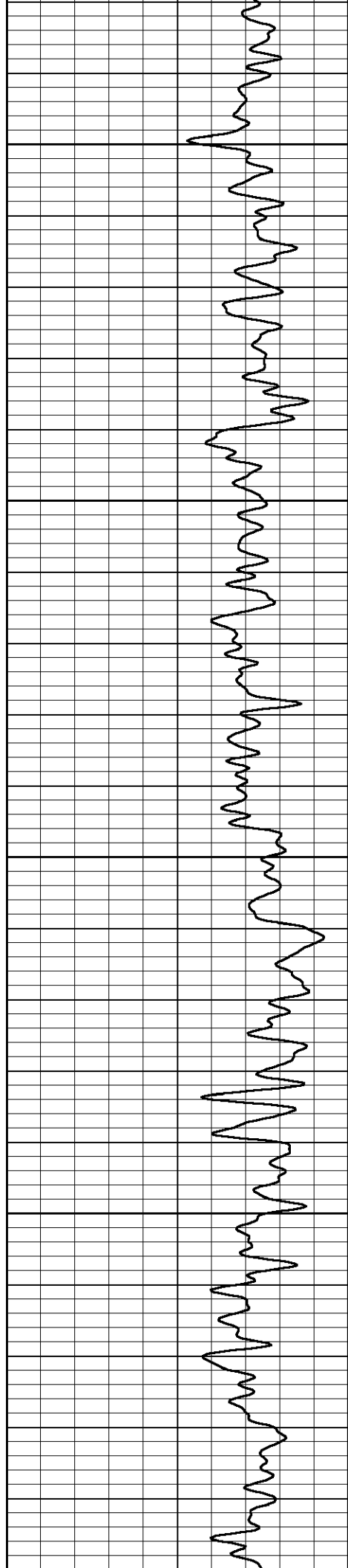
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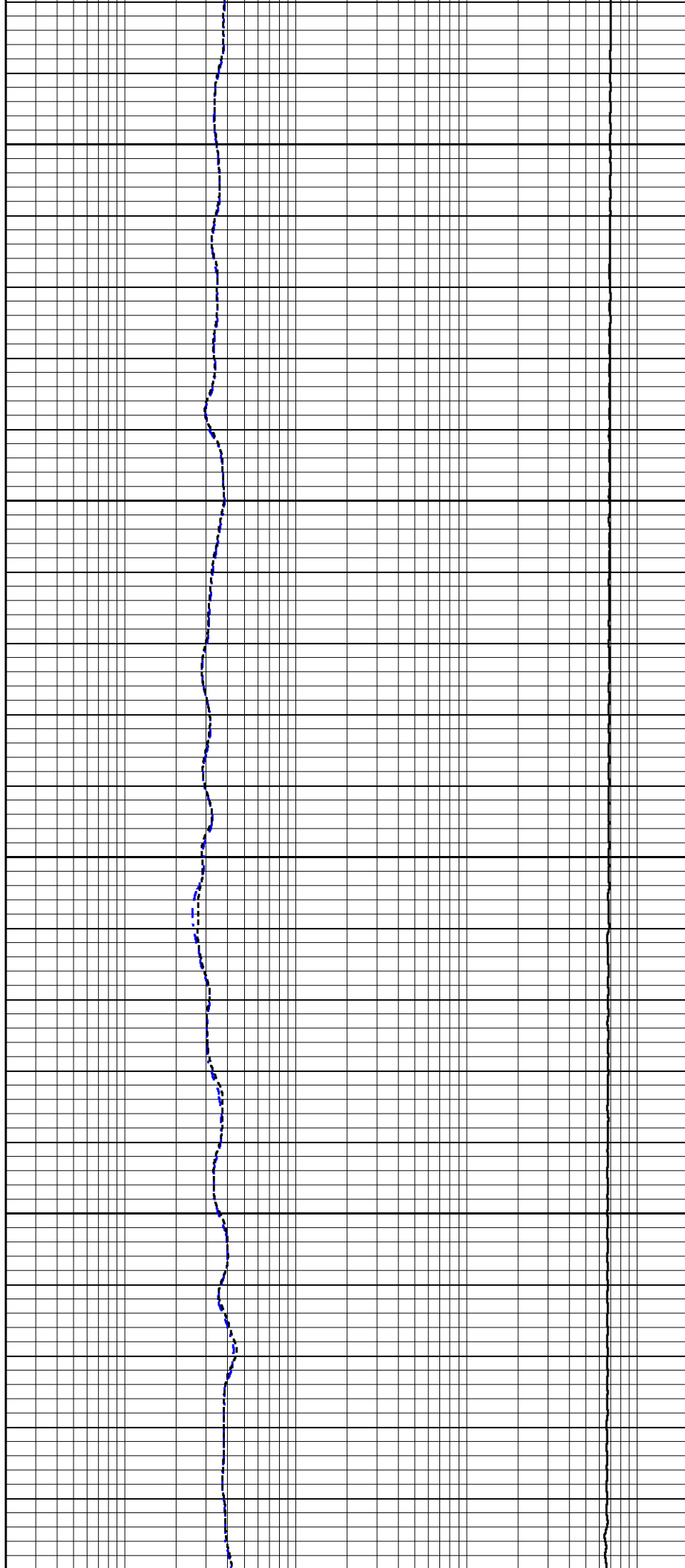
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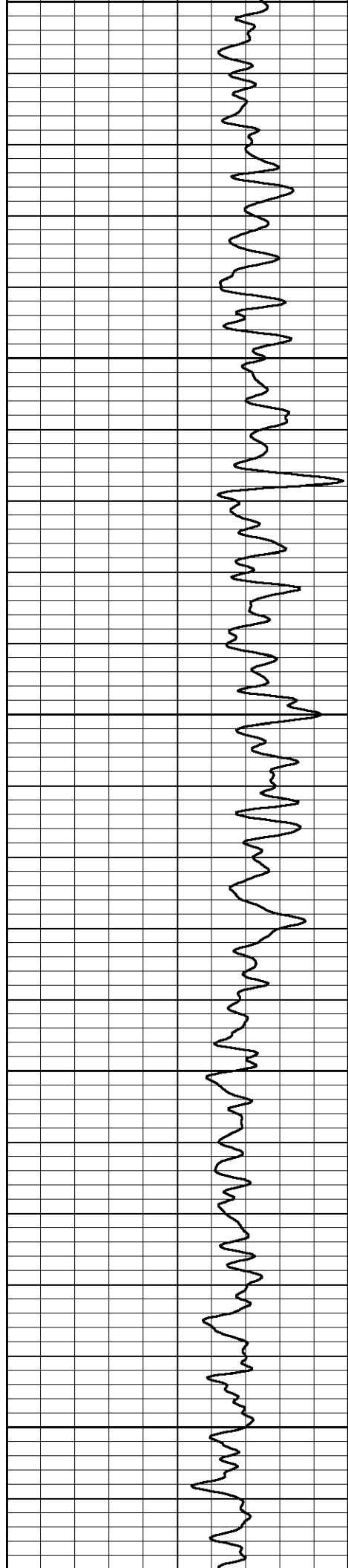
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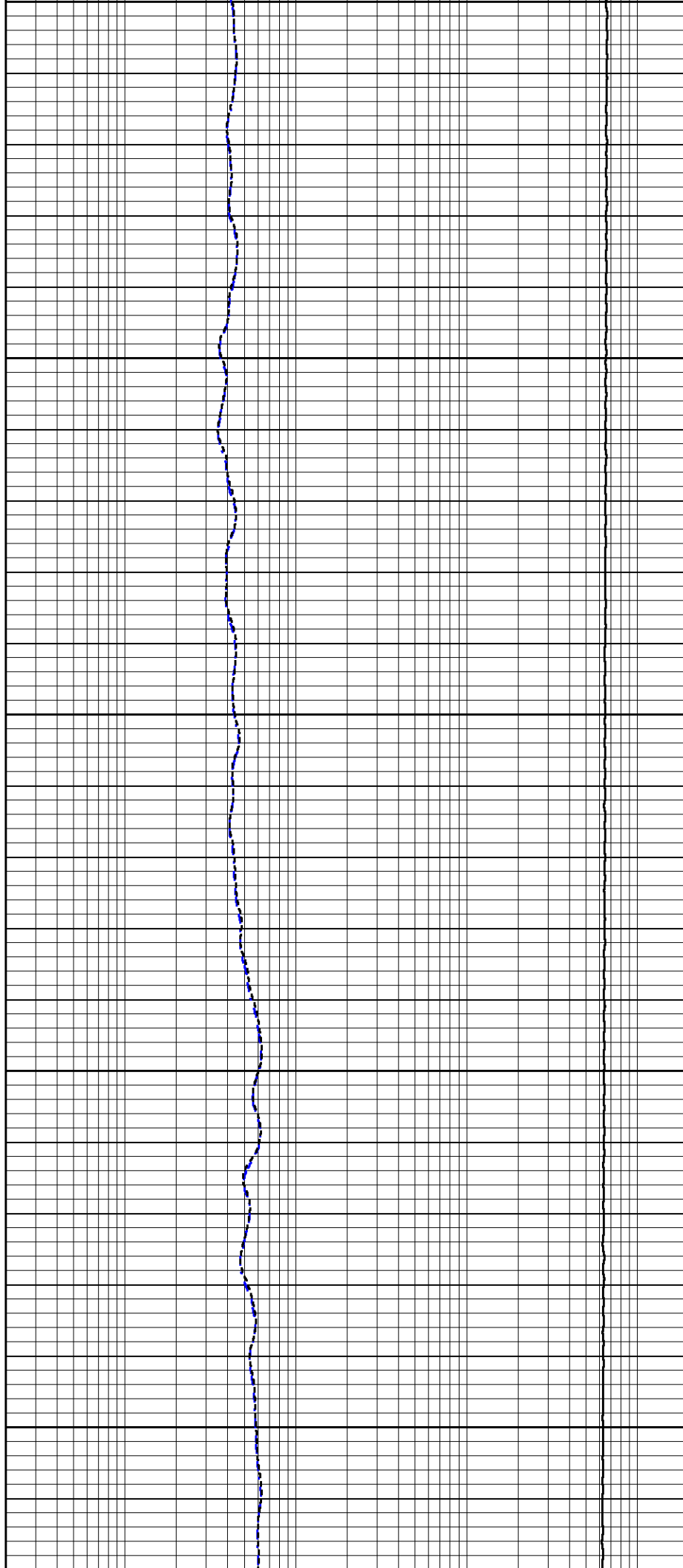
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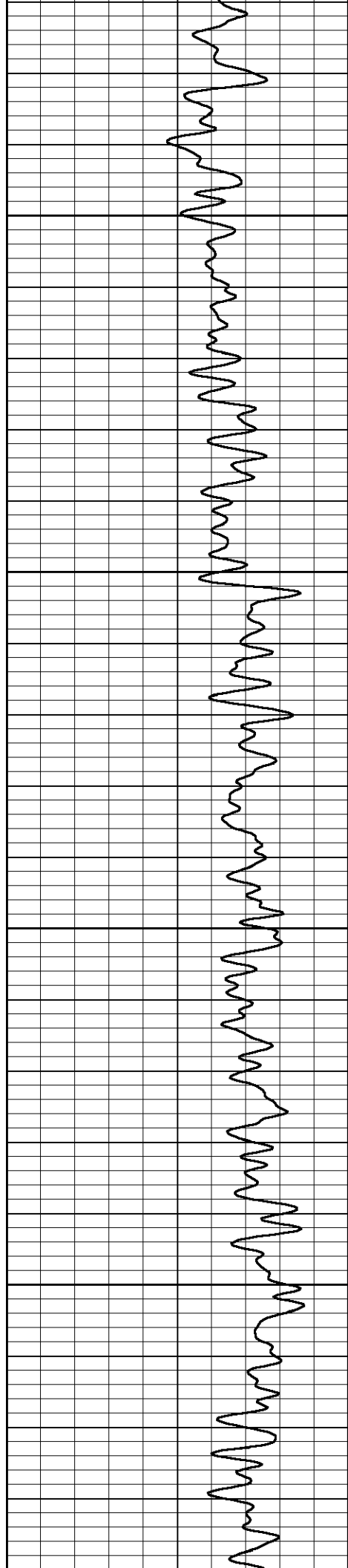
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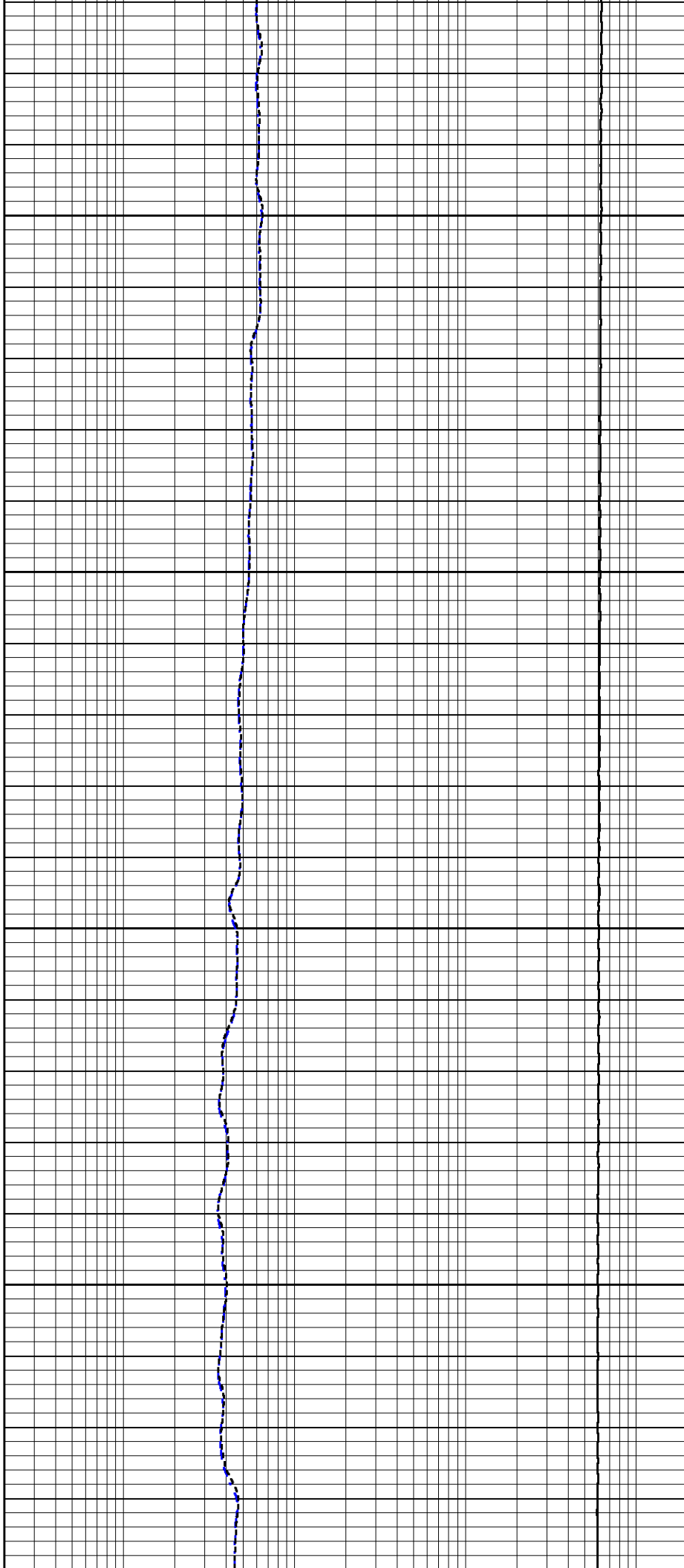


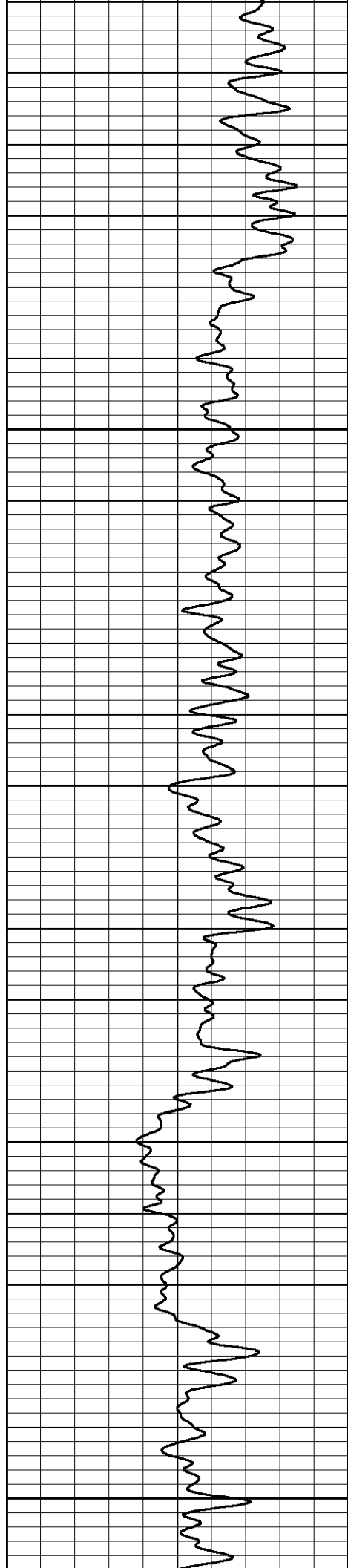
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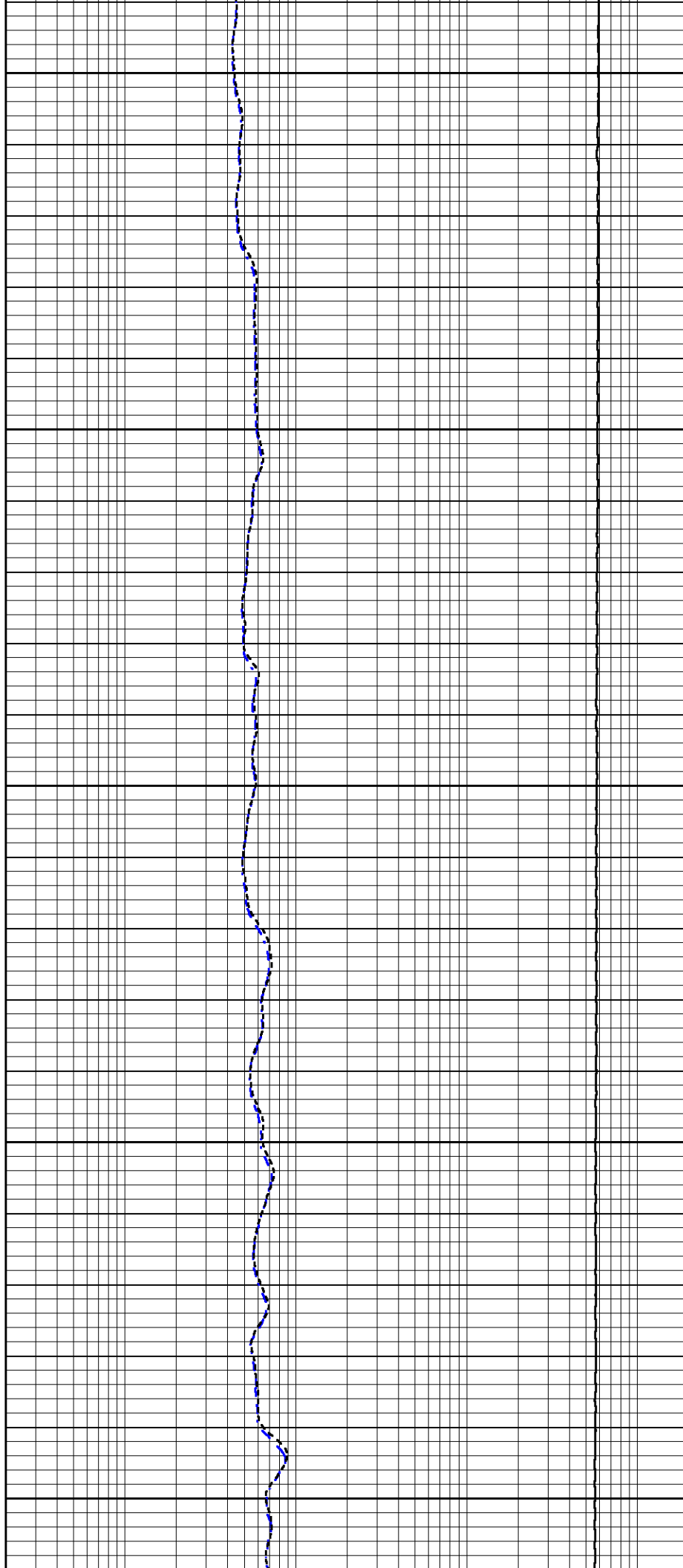
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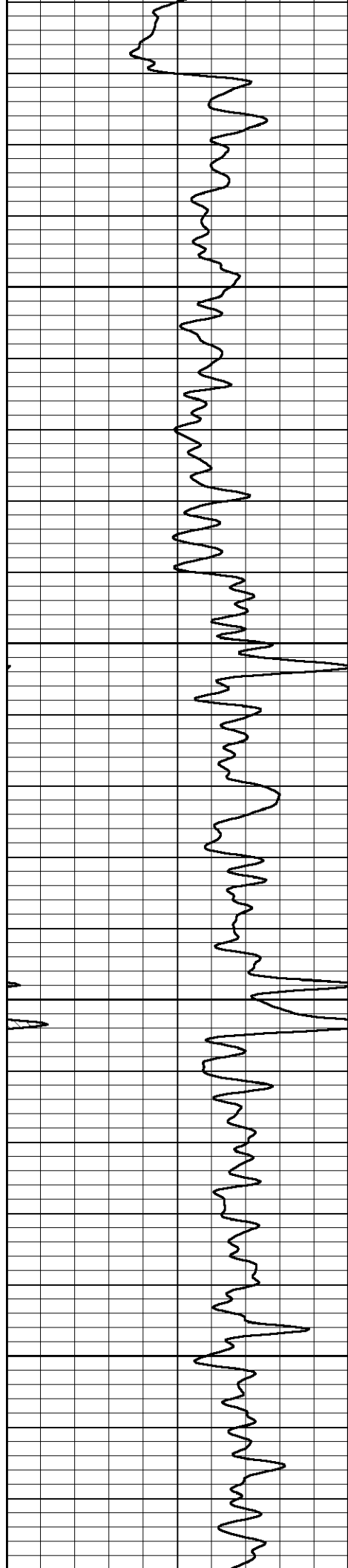
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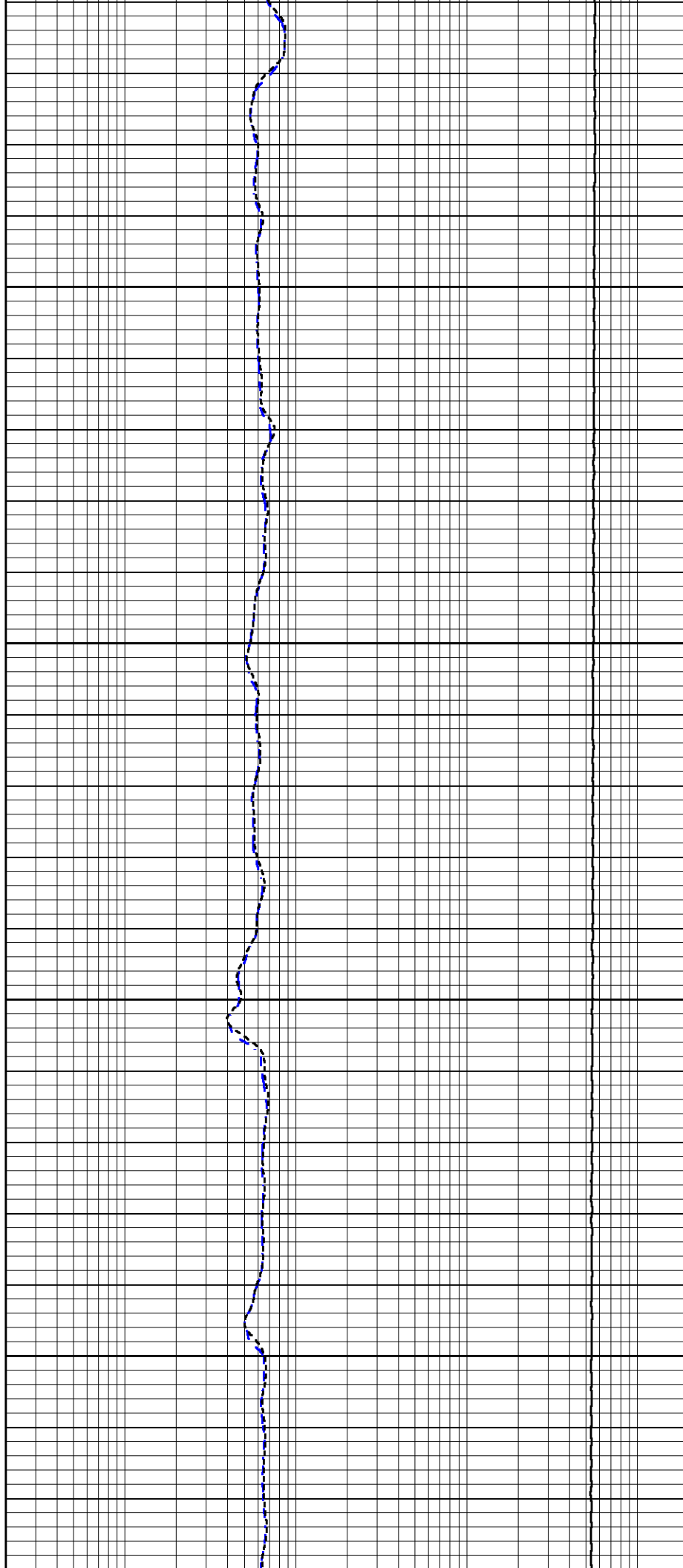


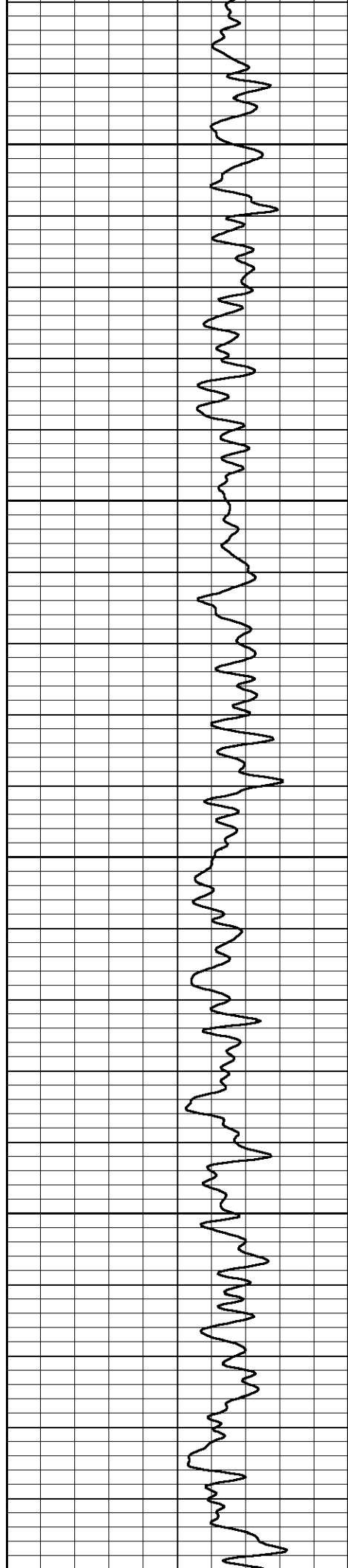
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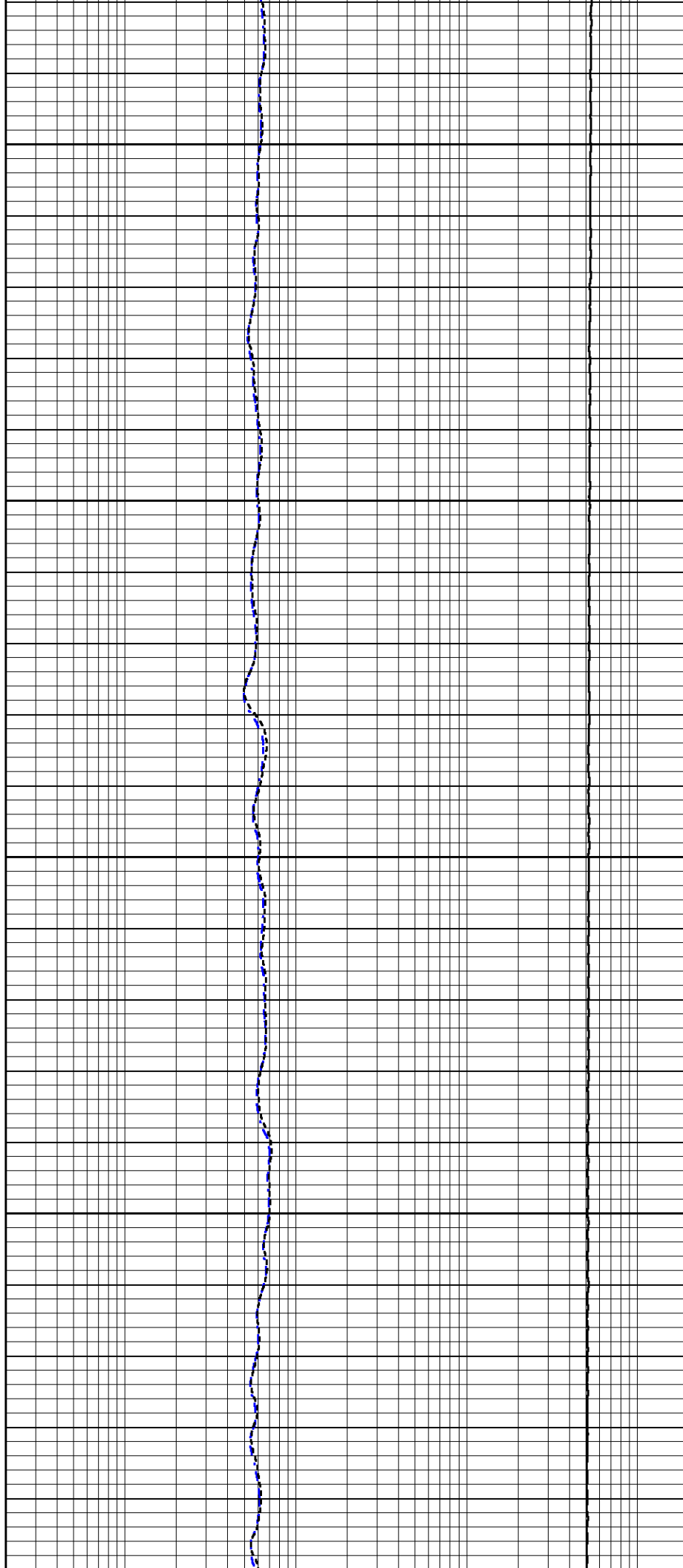
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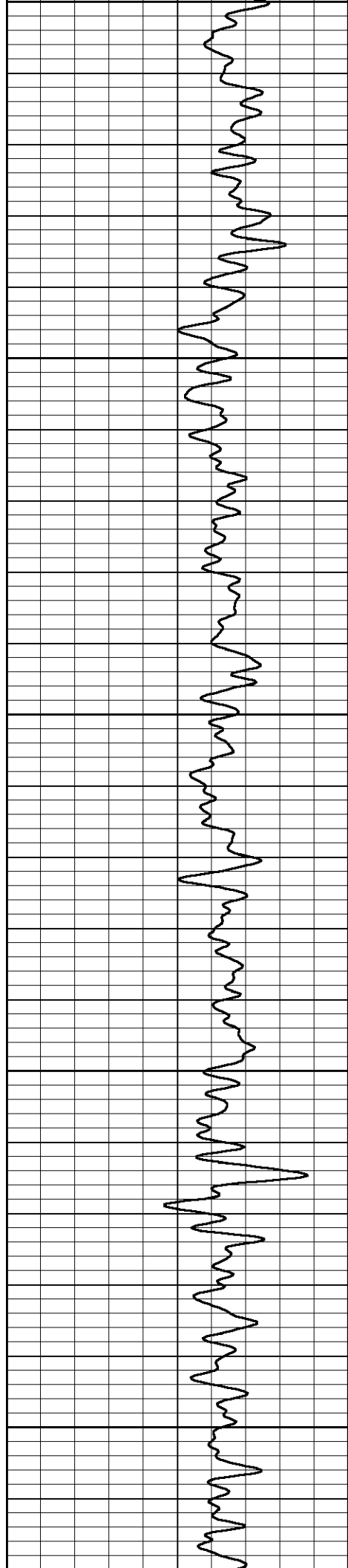
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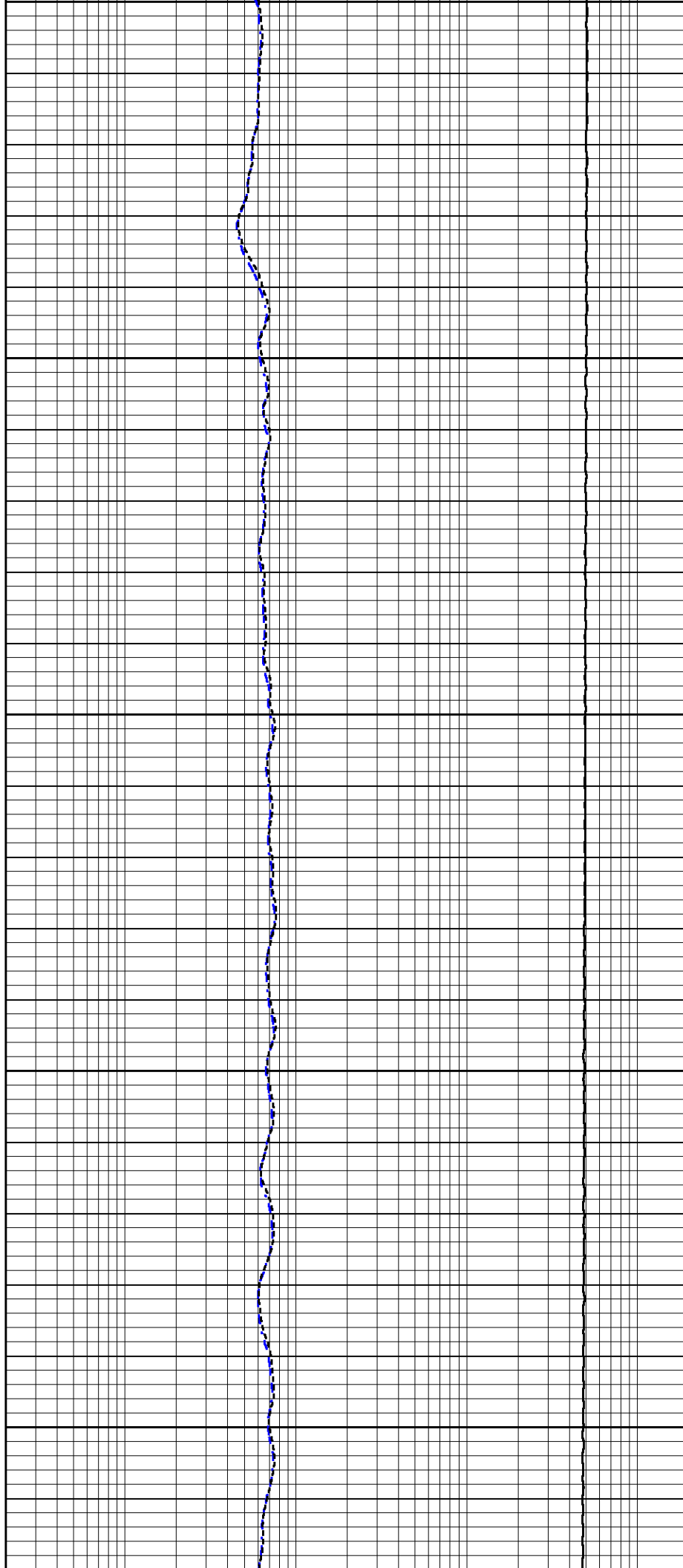
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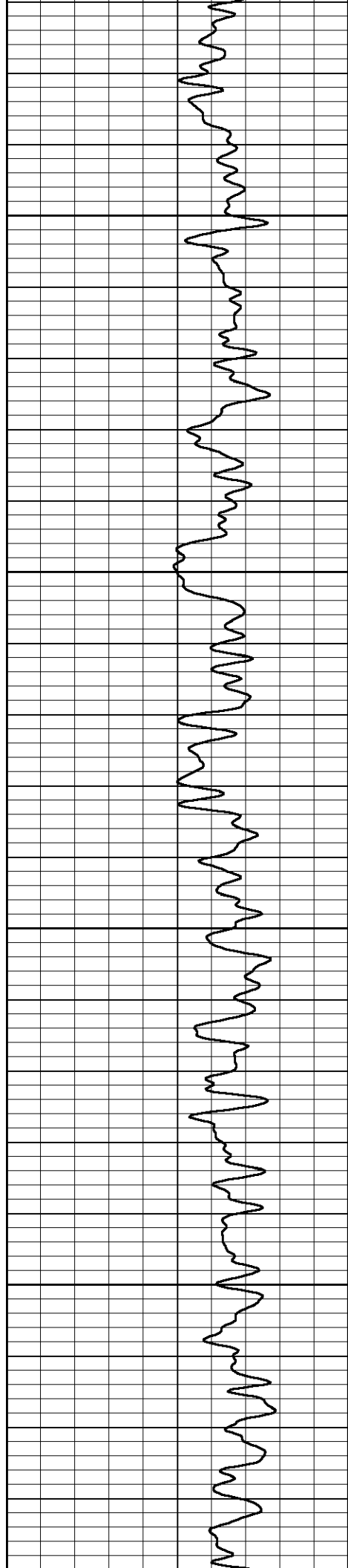
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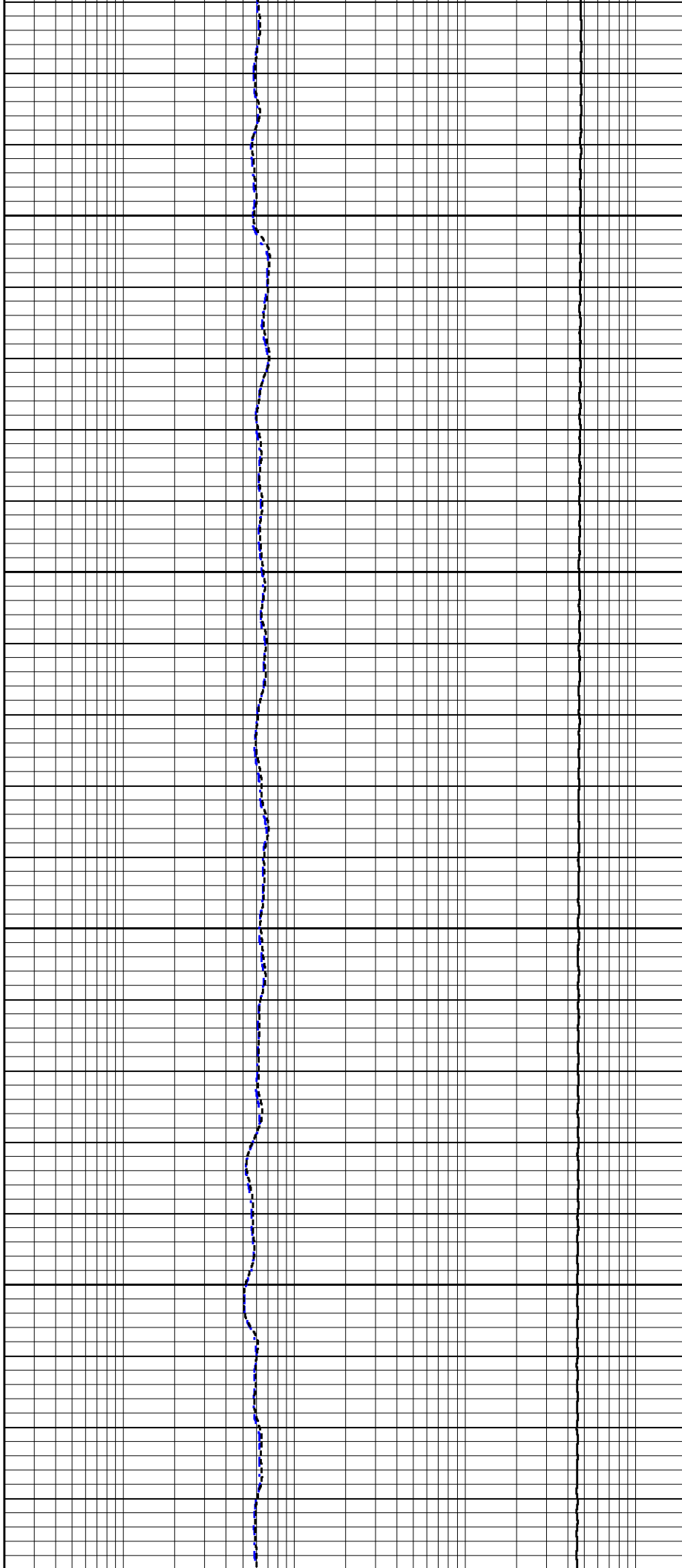


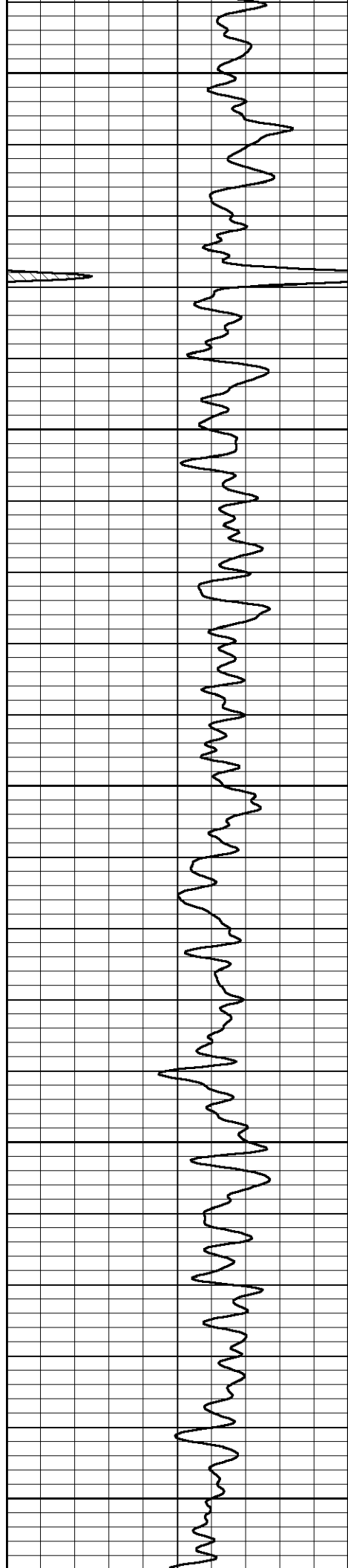
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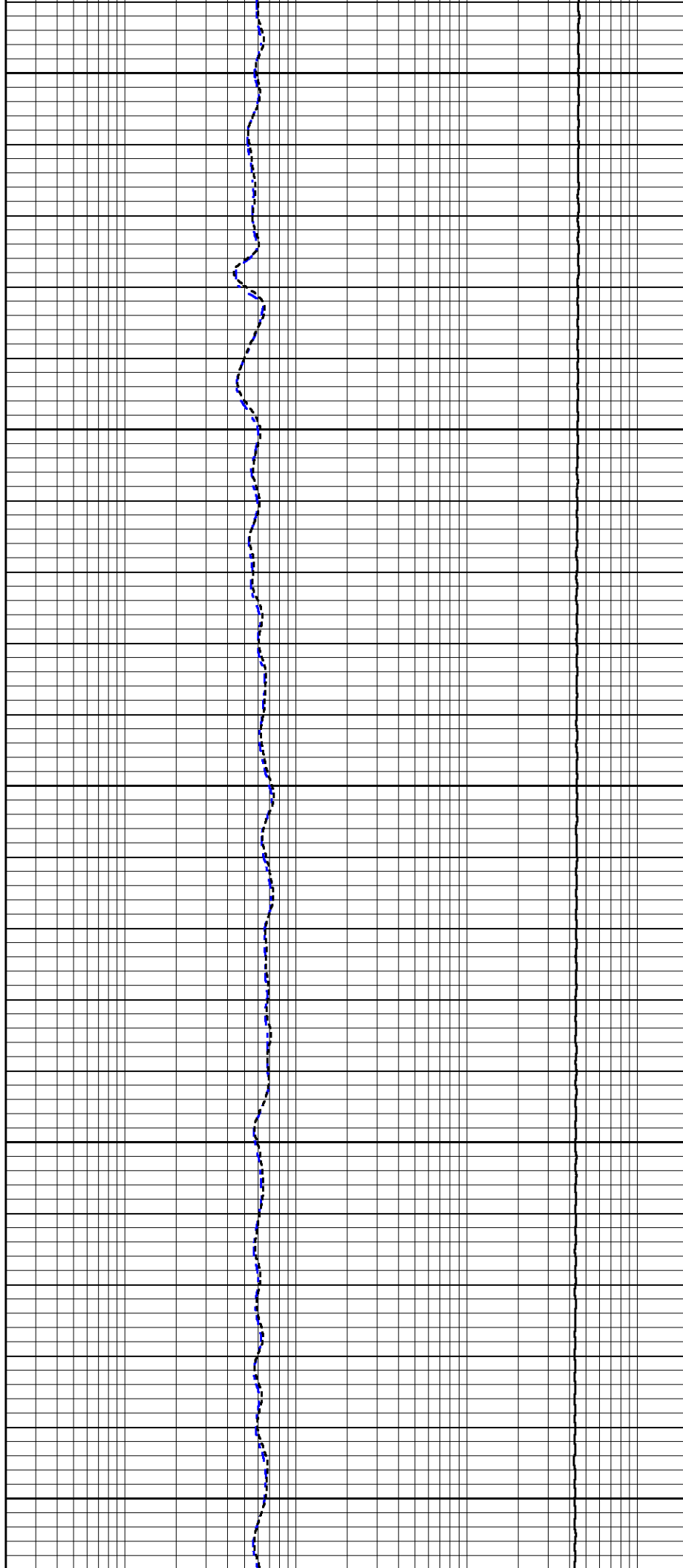
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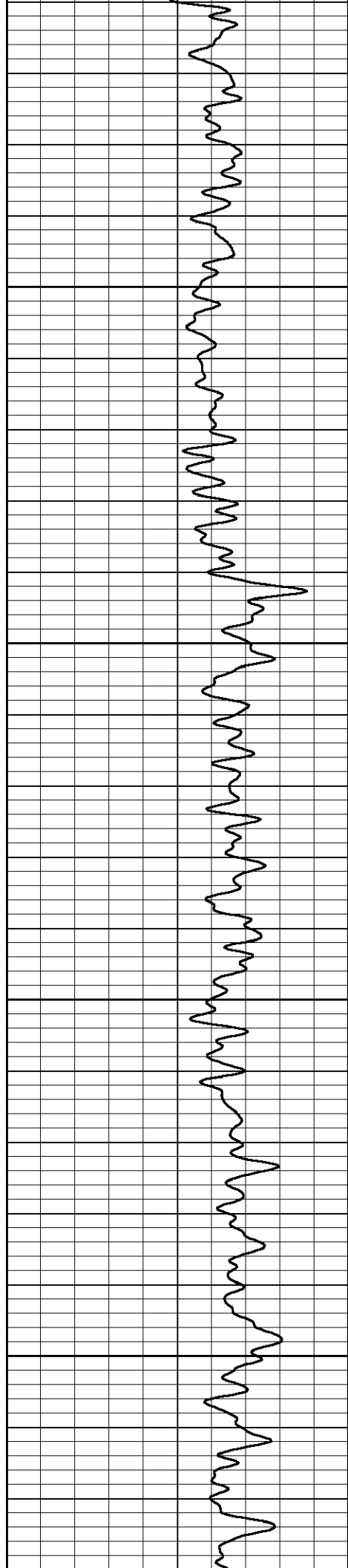
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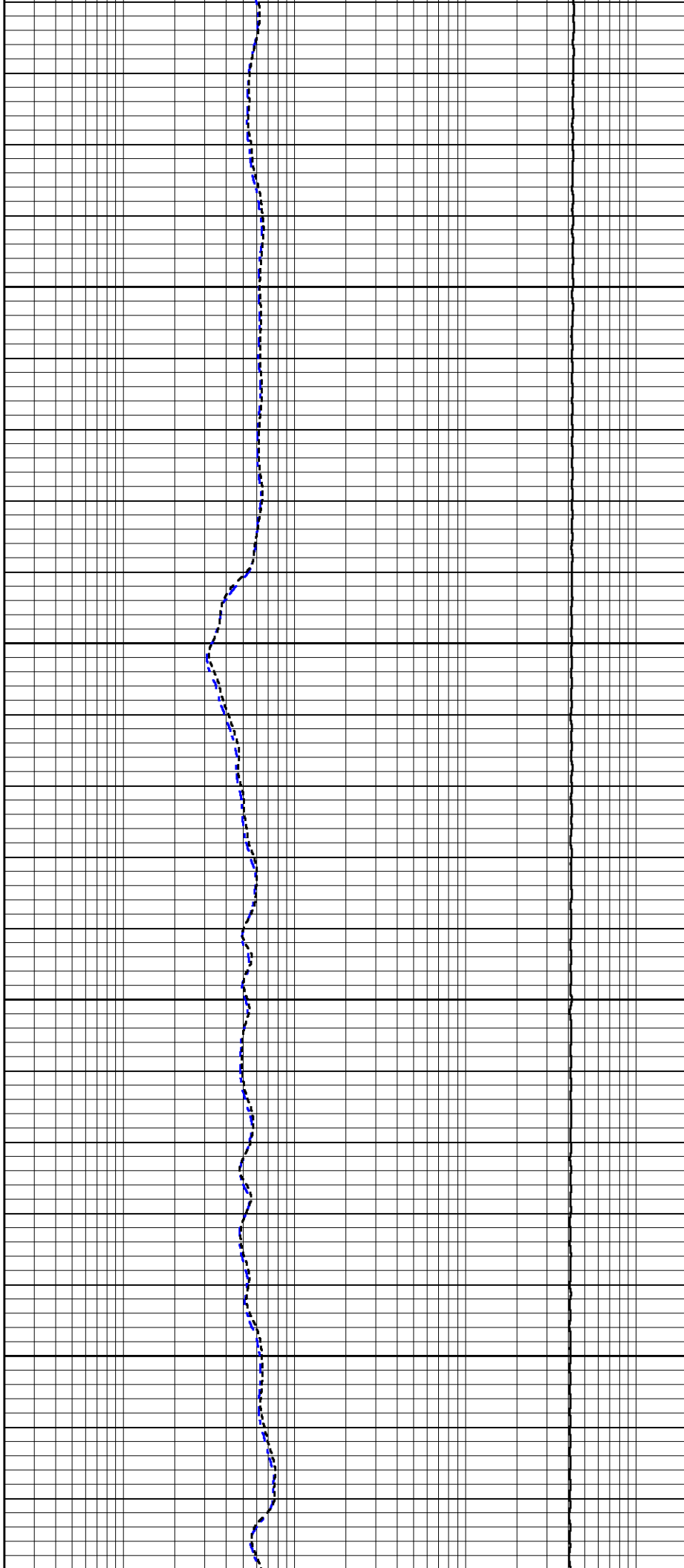


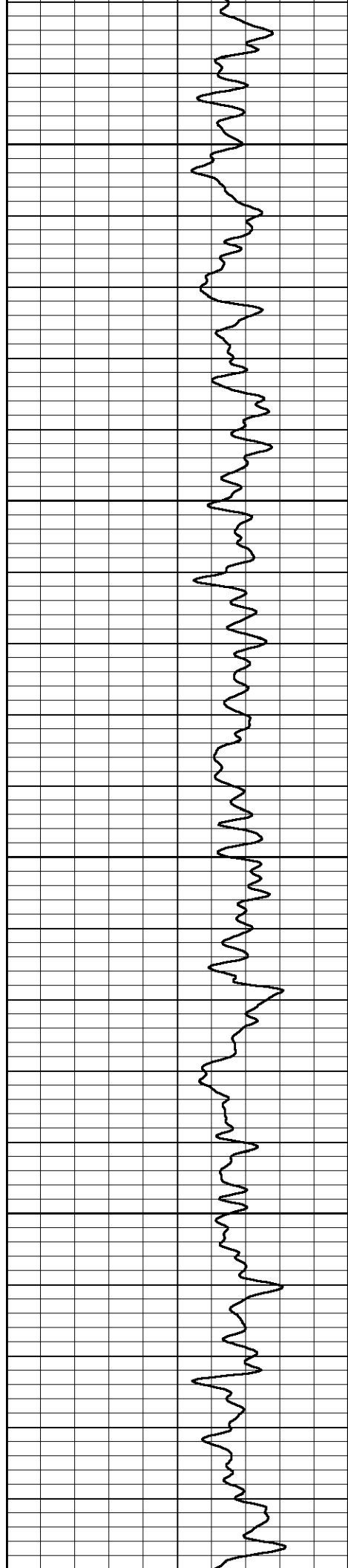
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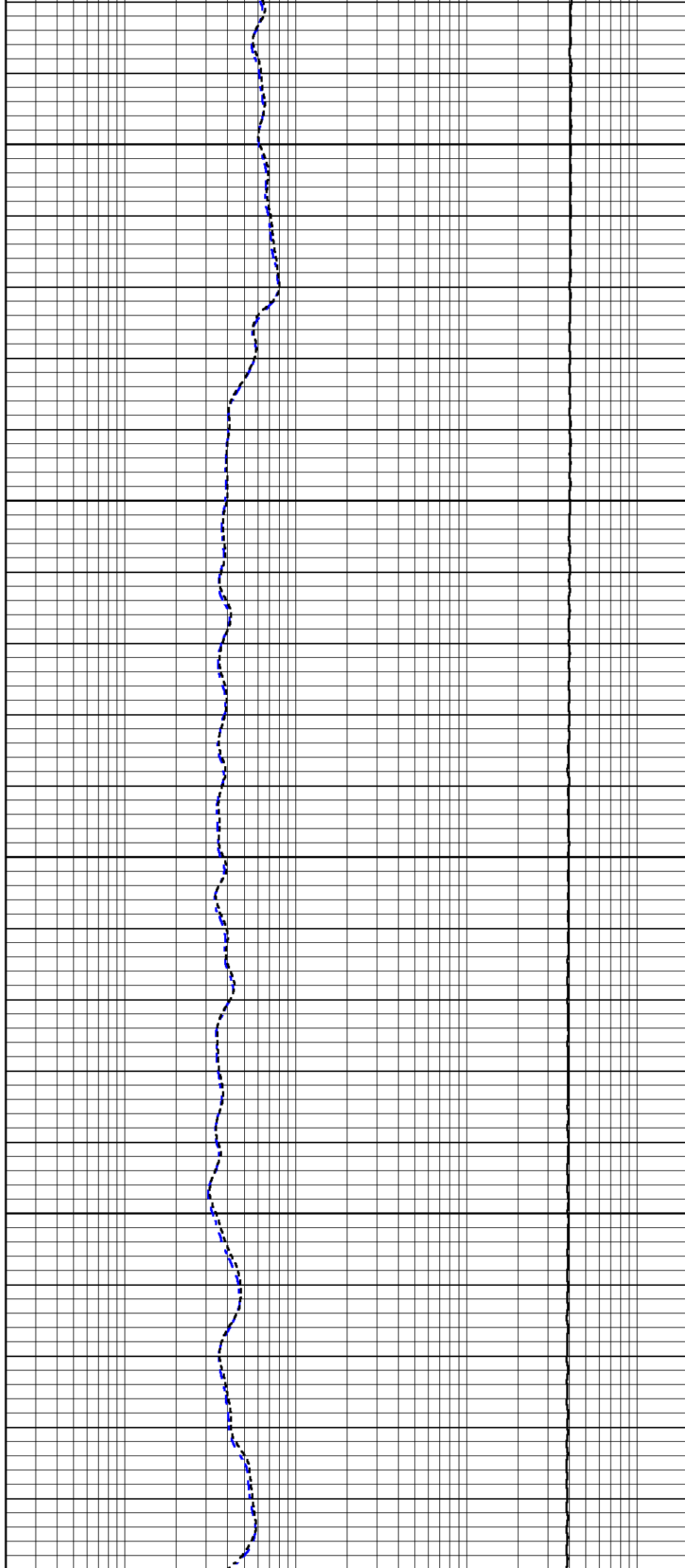
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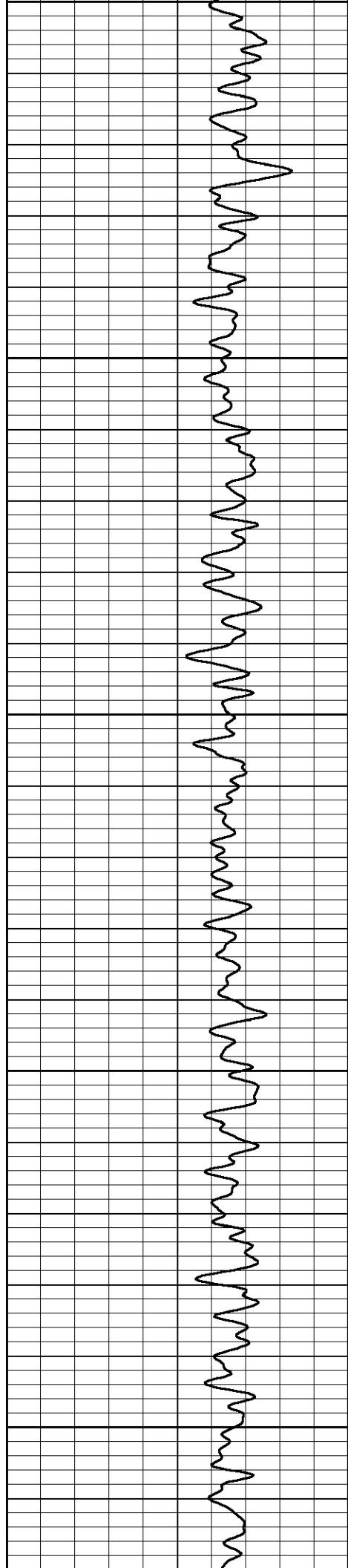
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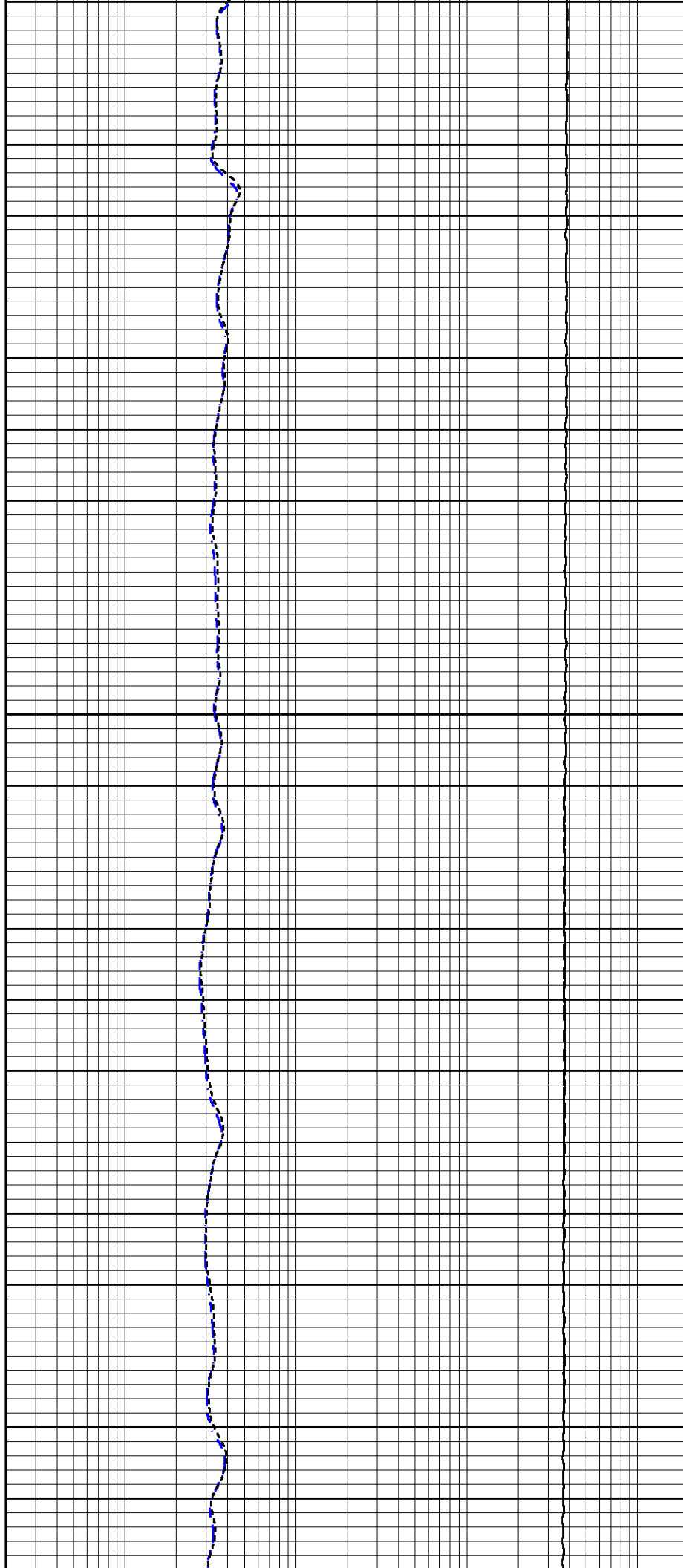
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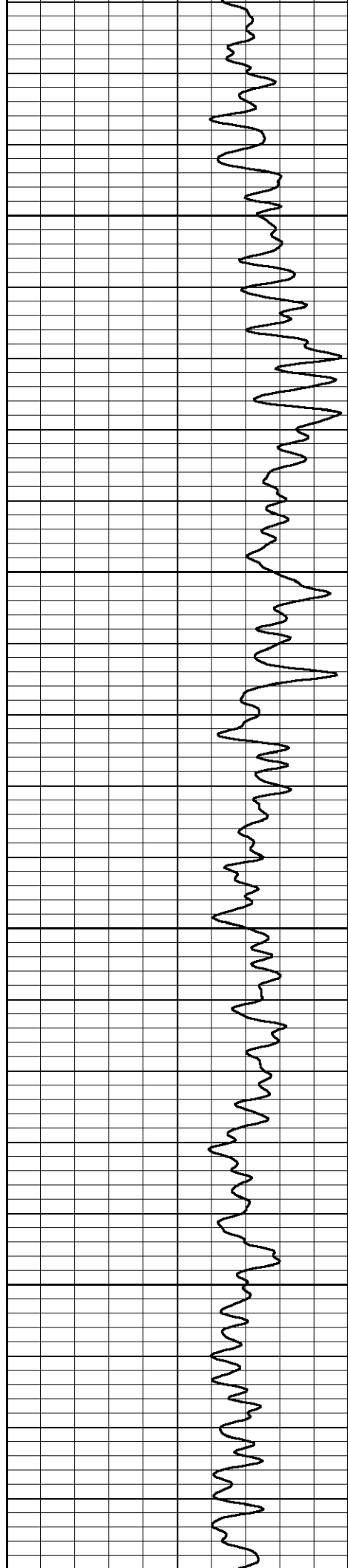
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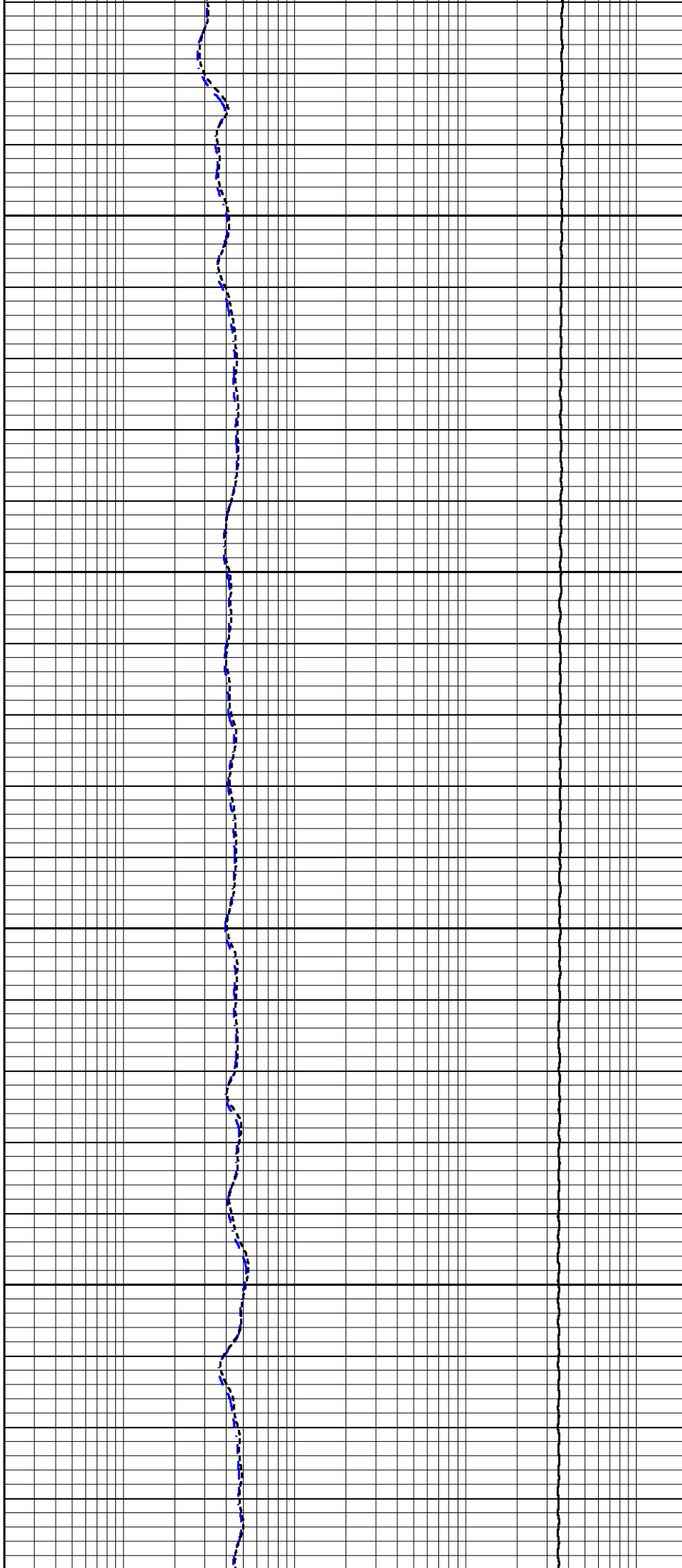


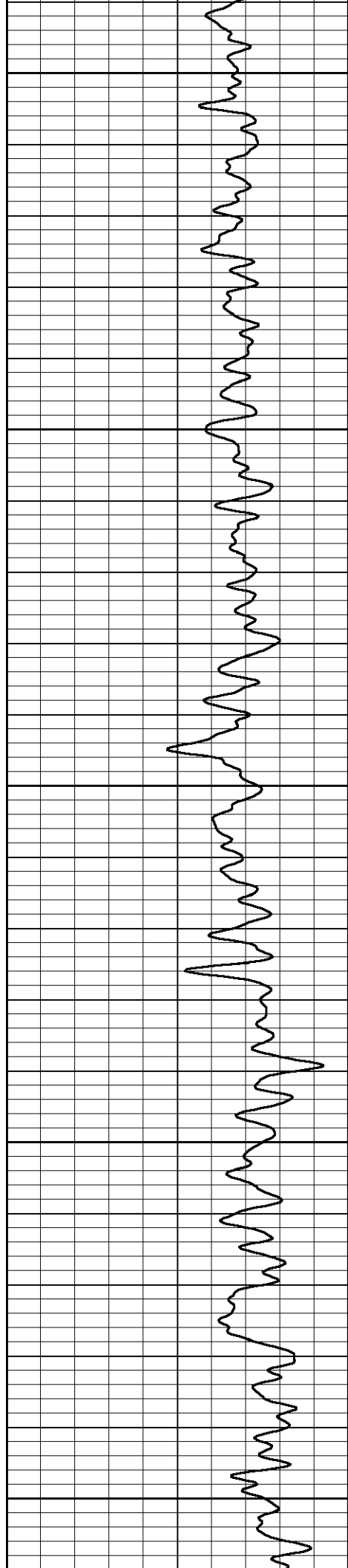
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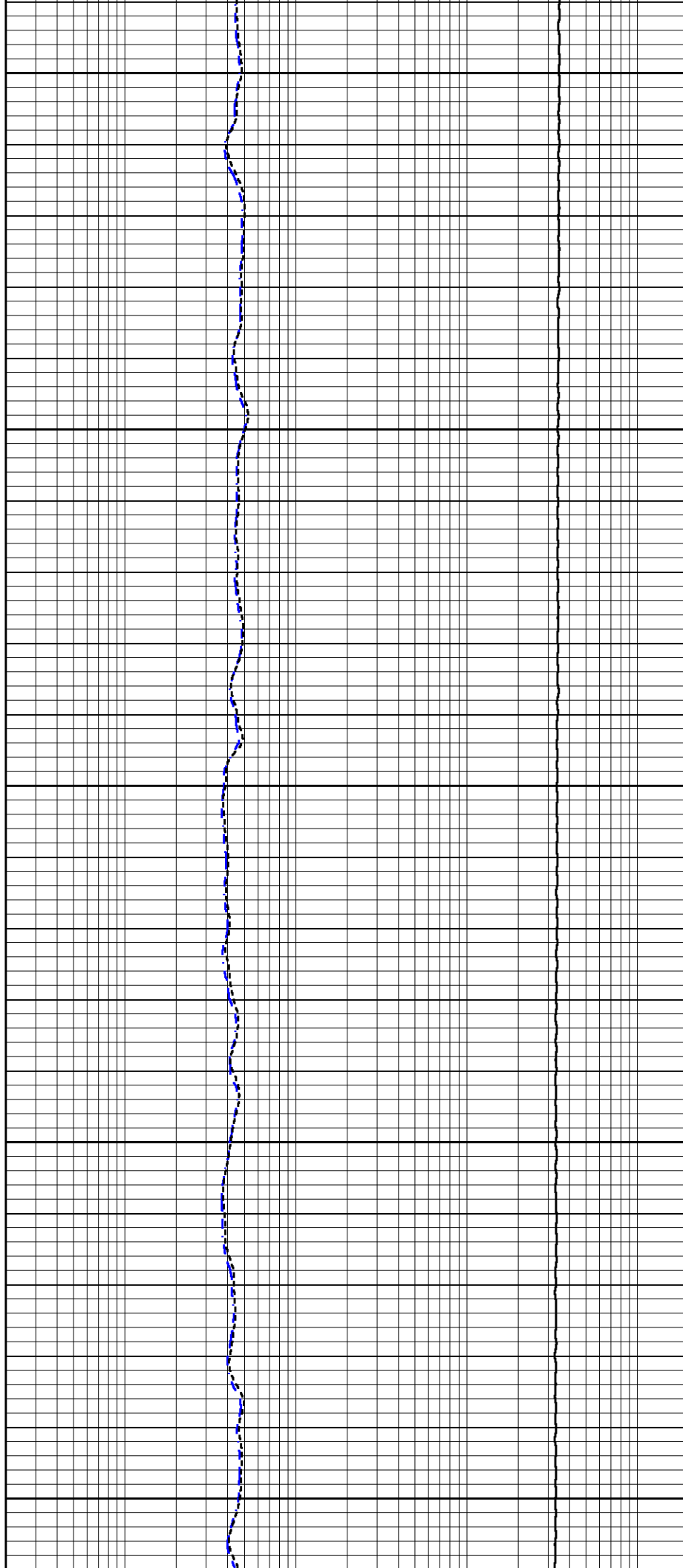
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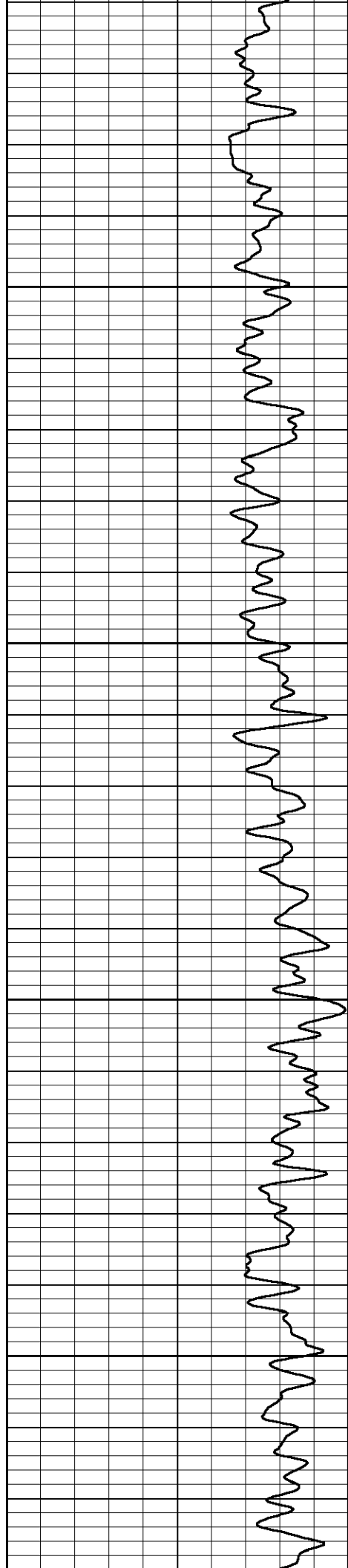
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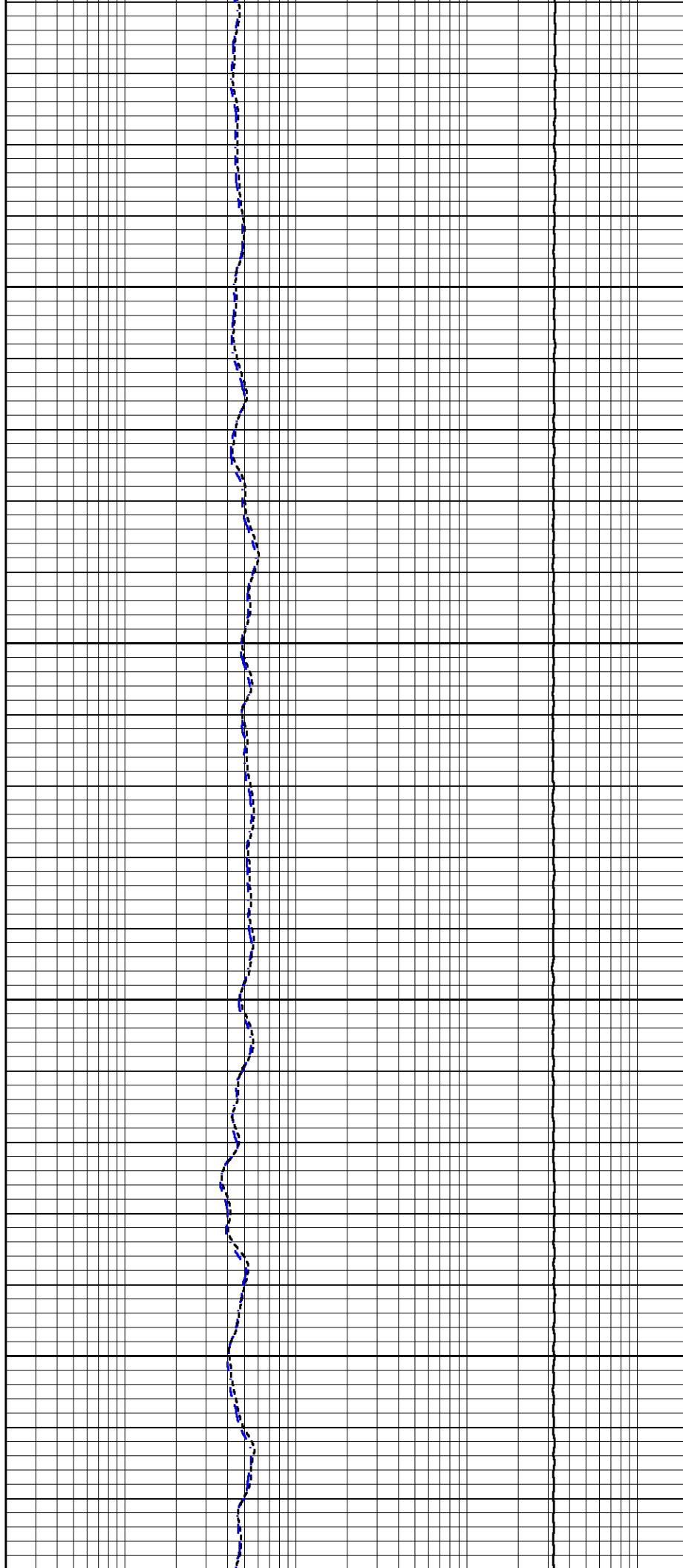


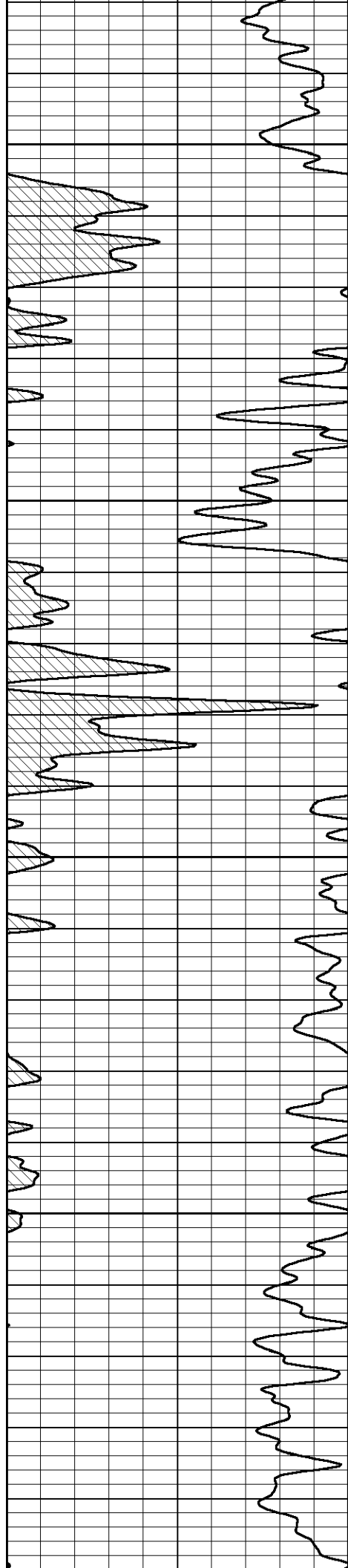
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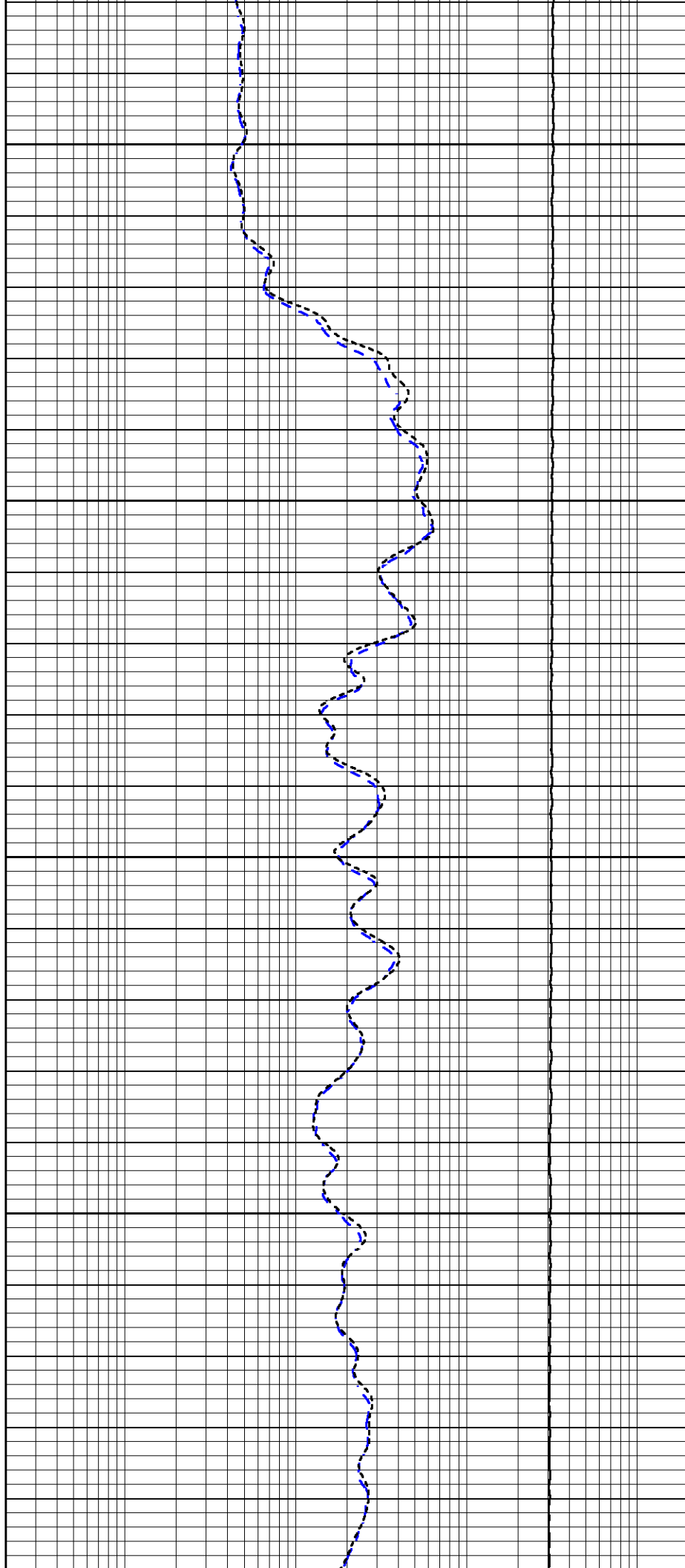
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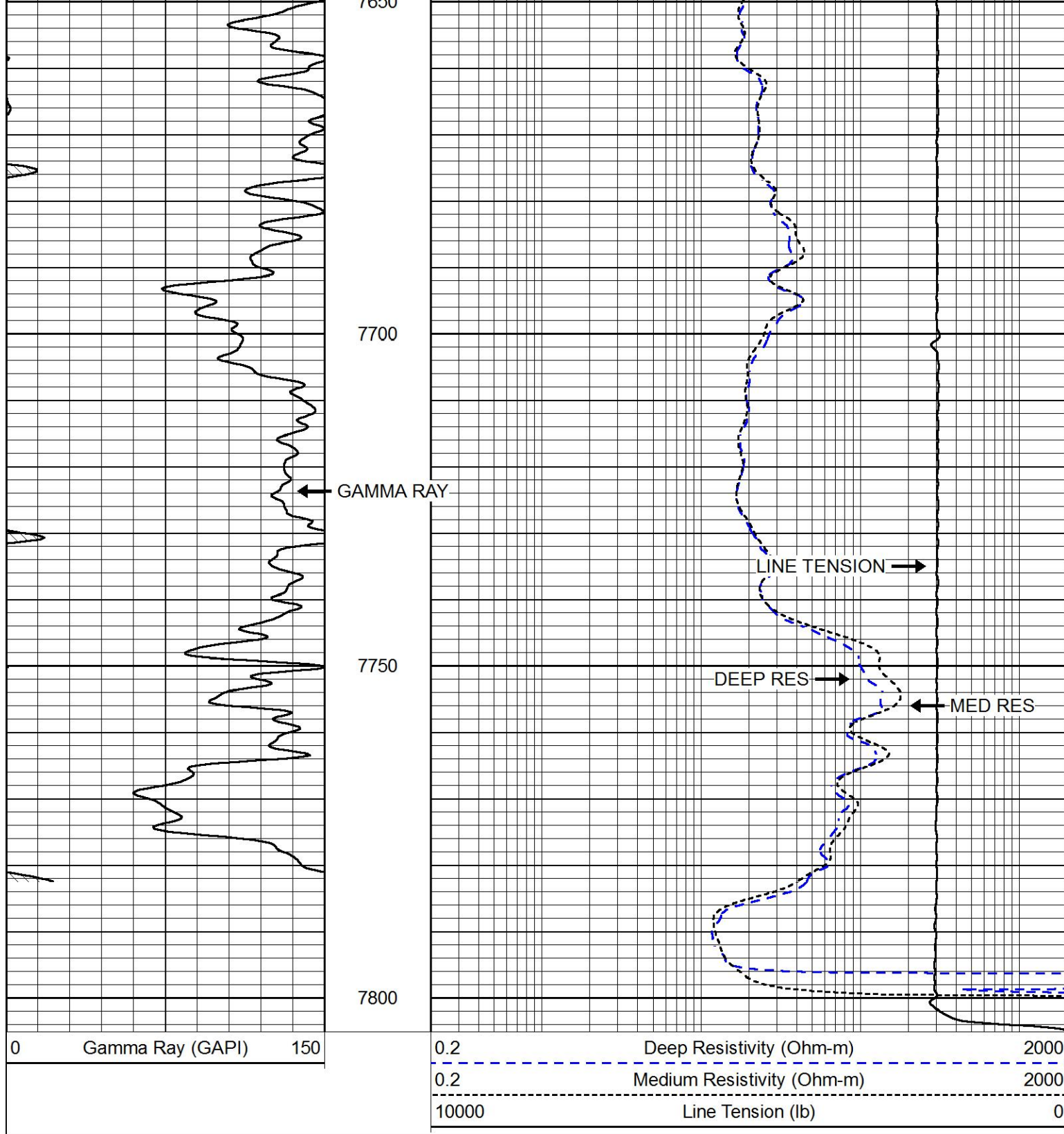
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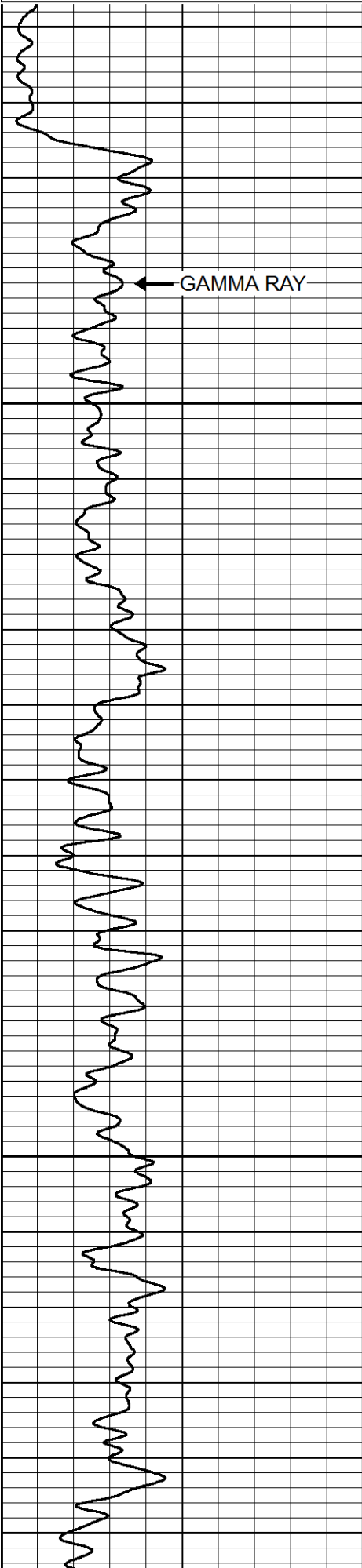




<div> PIONEER Pioneer Energy Services</div>		<div>MAIN PASS</div> <div>ADJUSTED FOR TRUE VERTICAL DEPTH</div>	
Database File	petroshare_shook_3-10-4cdh.db		
Dataset Pathname	DIL/pass2.1		
Presentation Format	dil		
Dataset Creation	Mon Aug 14 20:48:28 2017		
Charted by	Depth in Feet scaled 1:240		



0.2	Medium Resistivity (Ohm-m)	2000
10000	Line Tension (lb)	0



GAMMA RAY

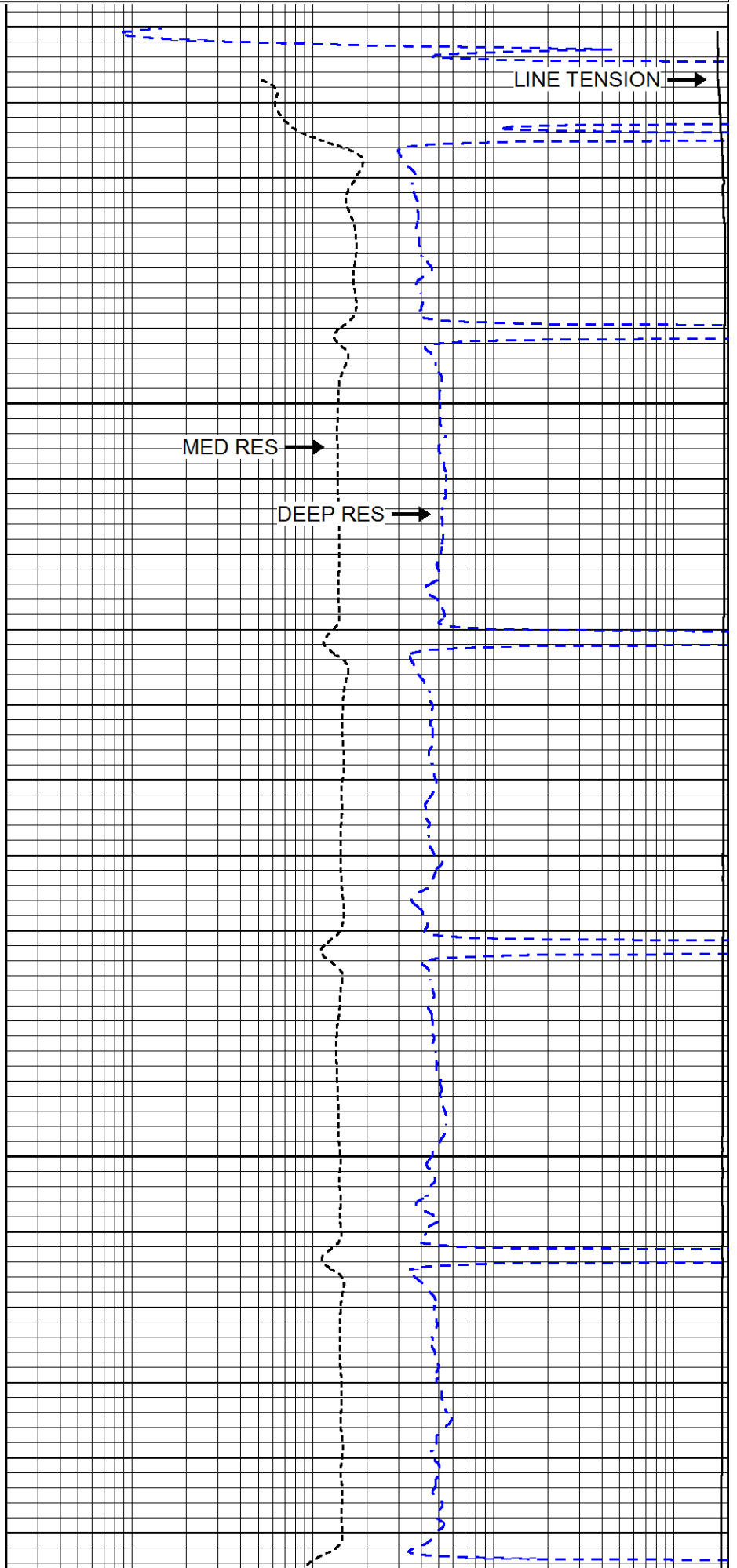
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100

150

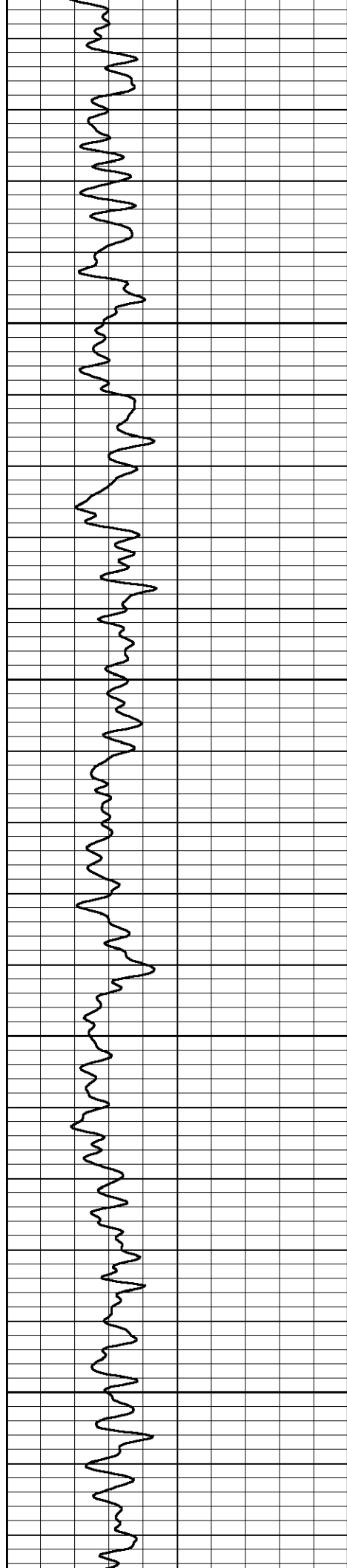
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LINE TENSION

MED RES

DEEP RES

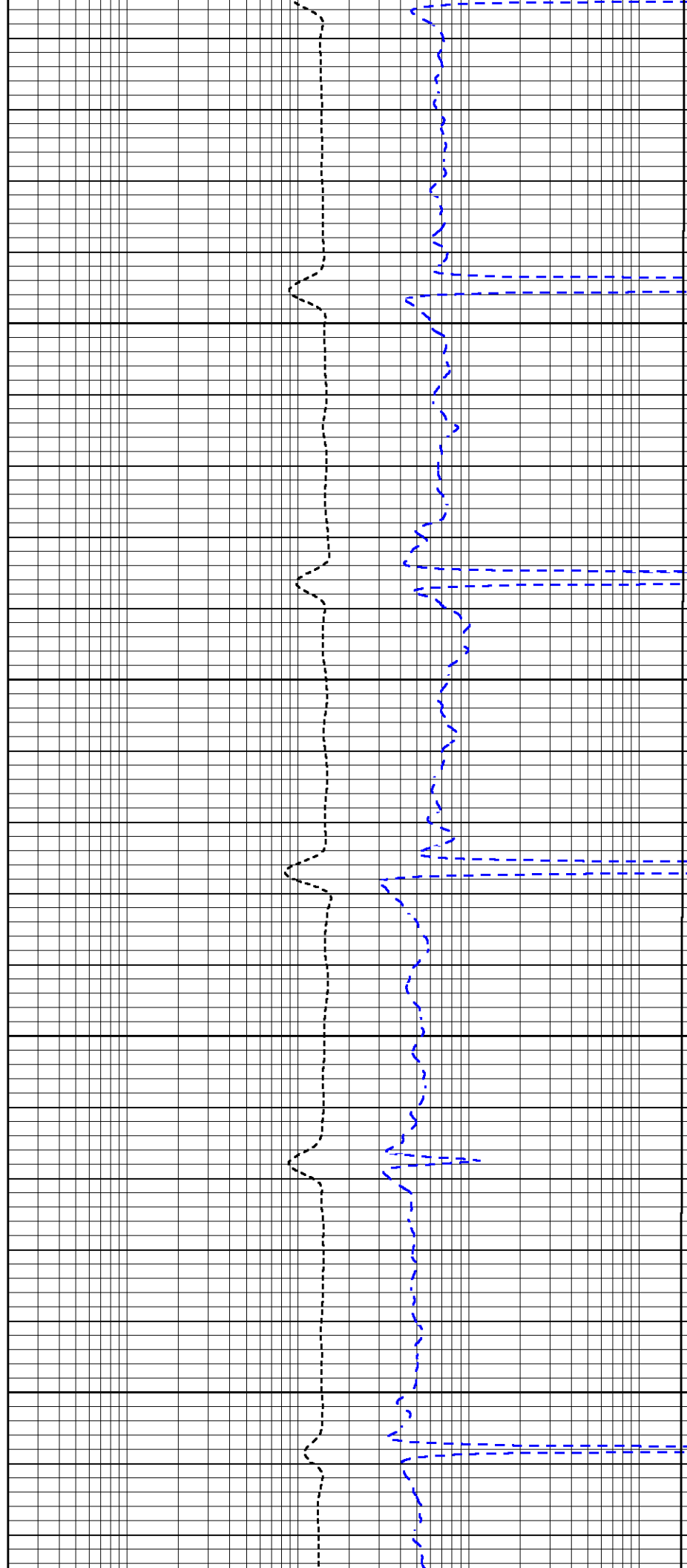


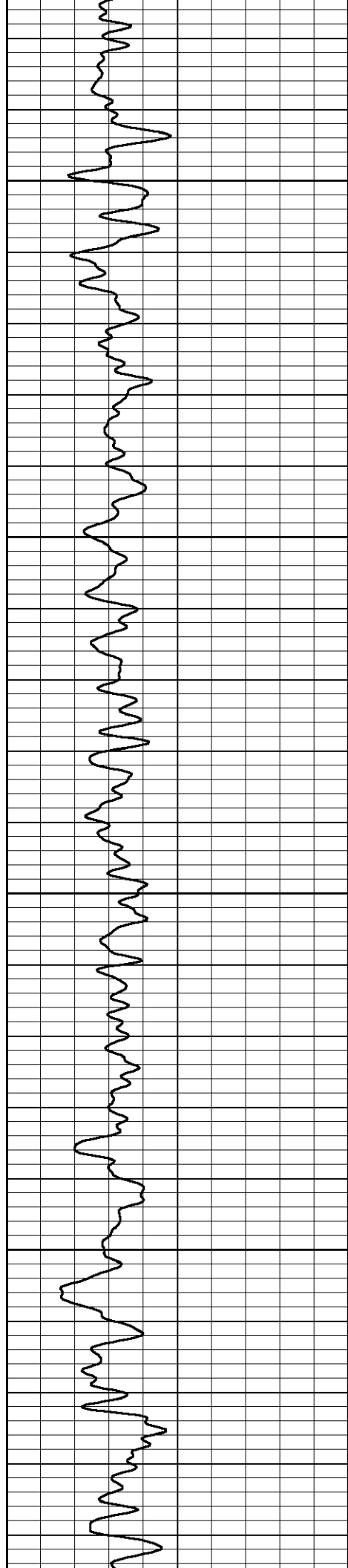
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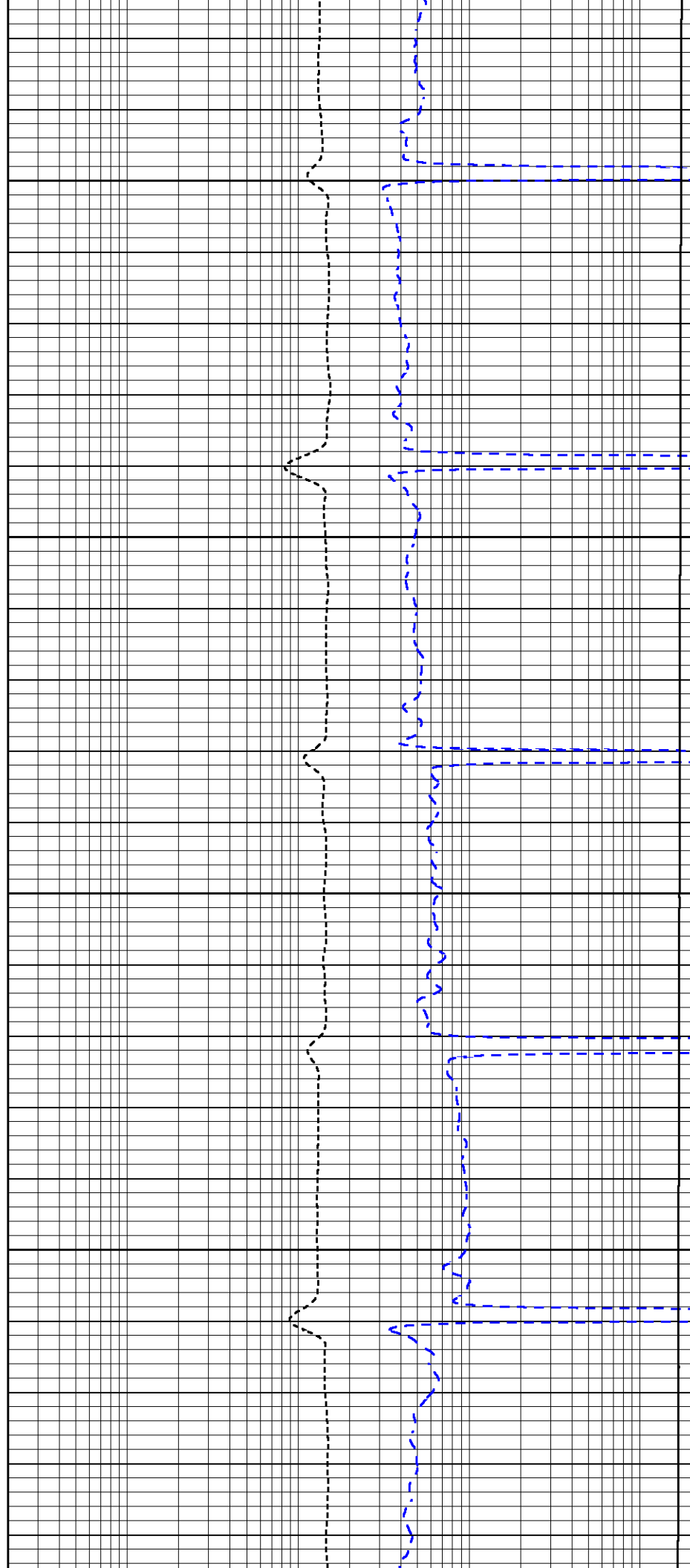


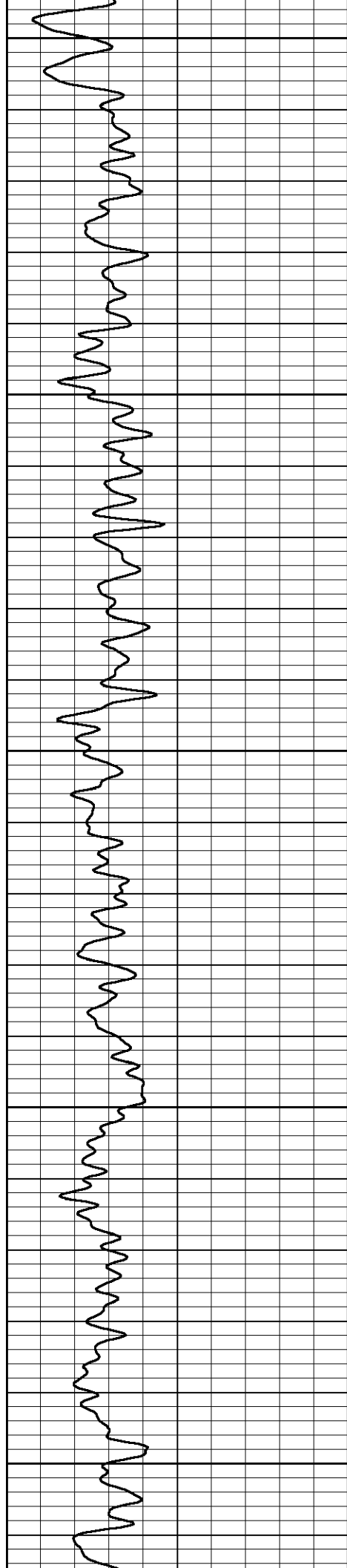
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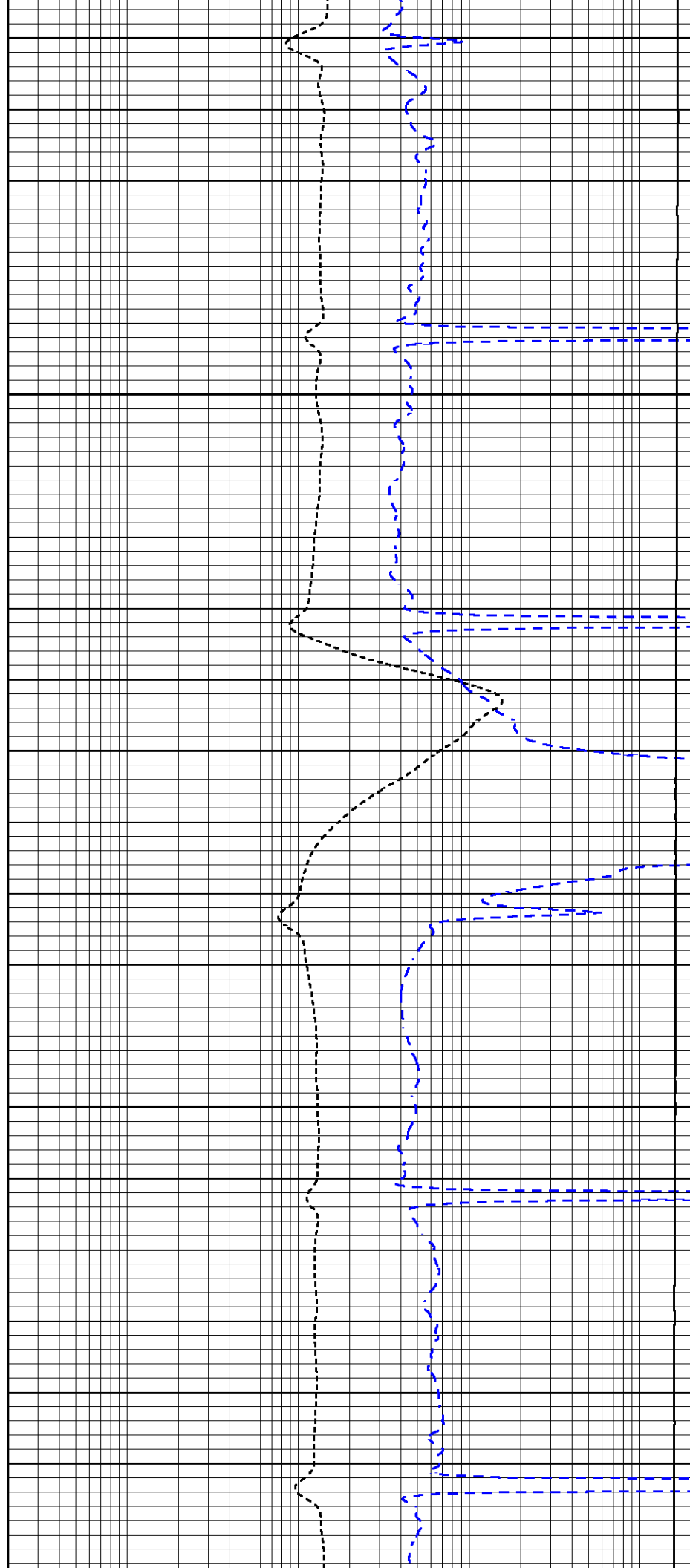
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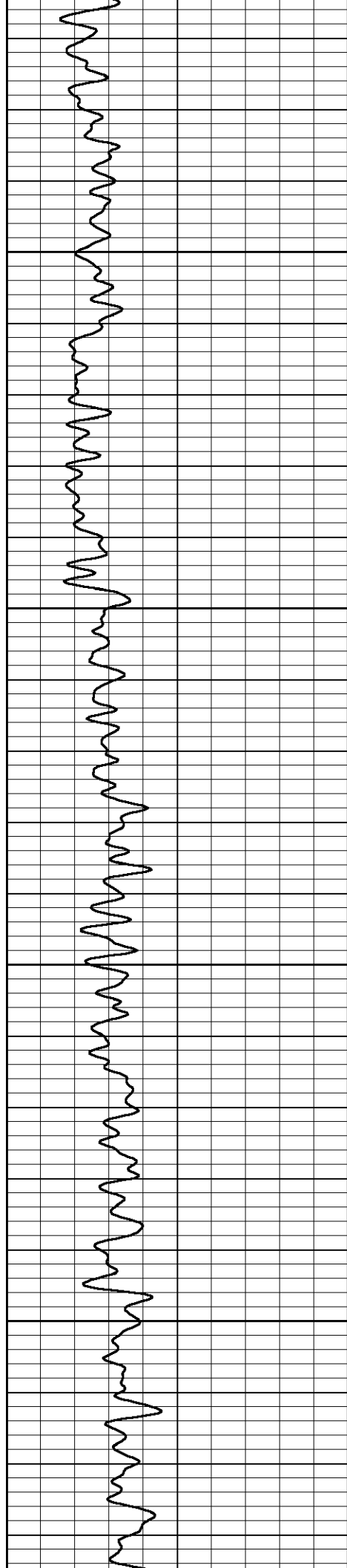
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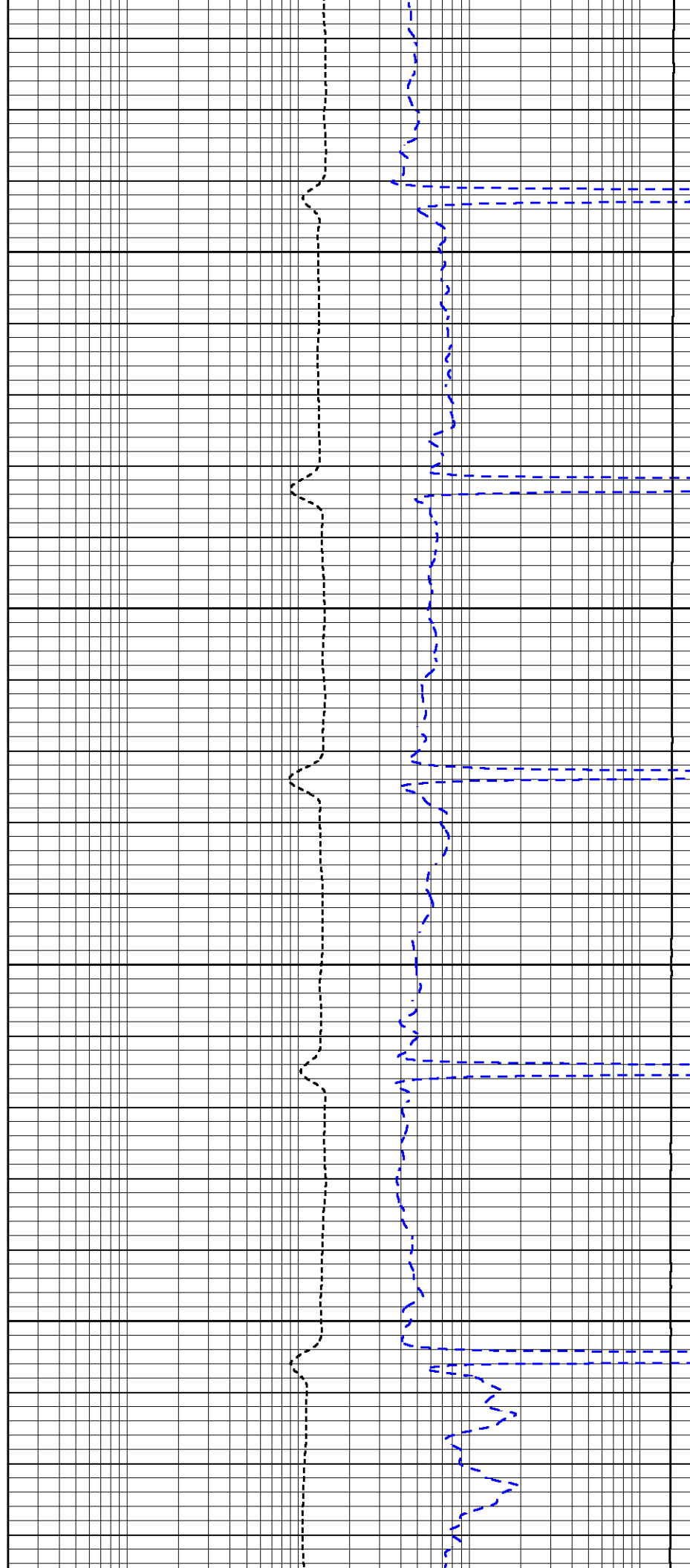


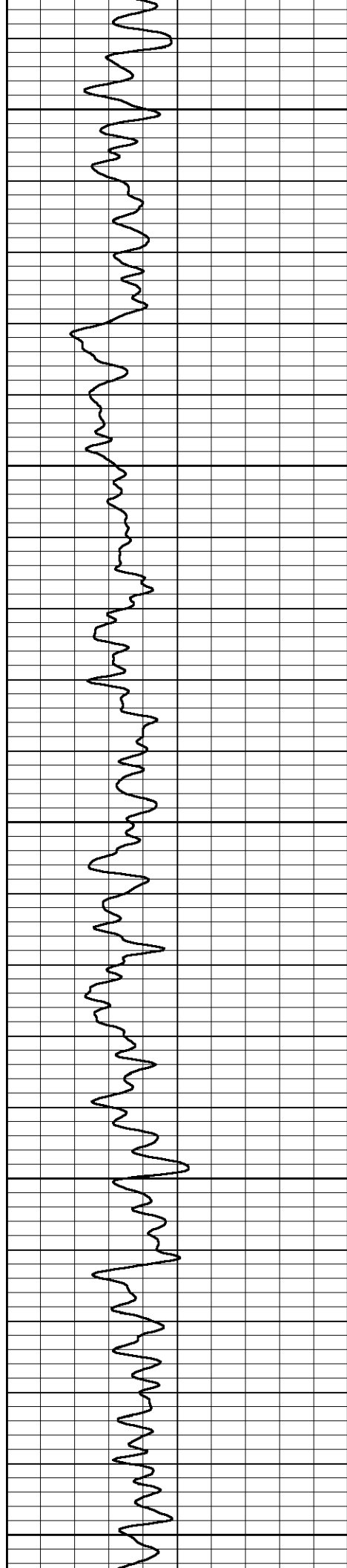
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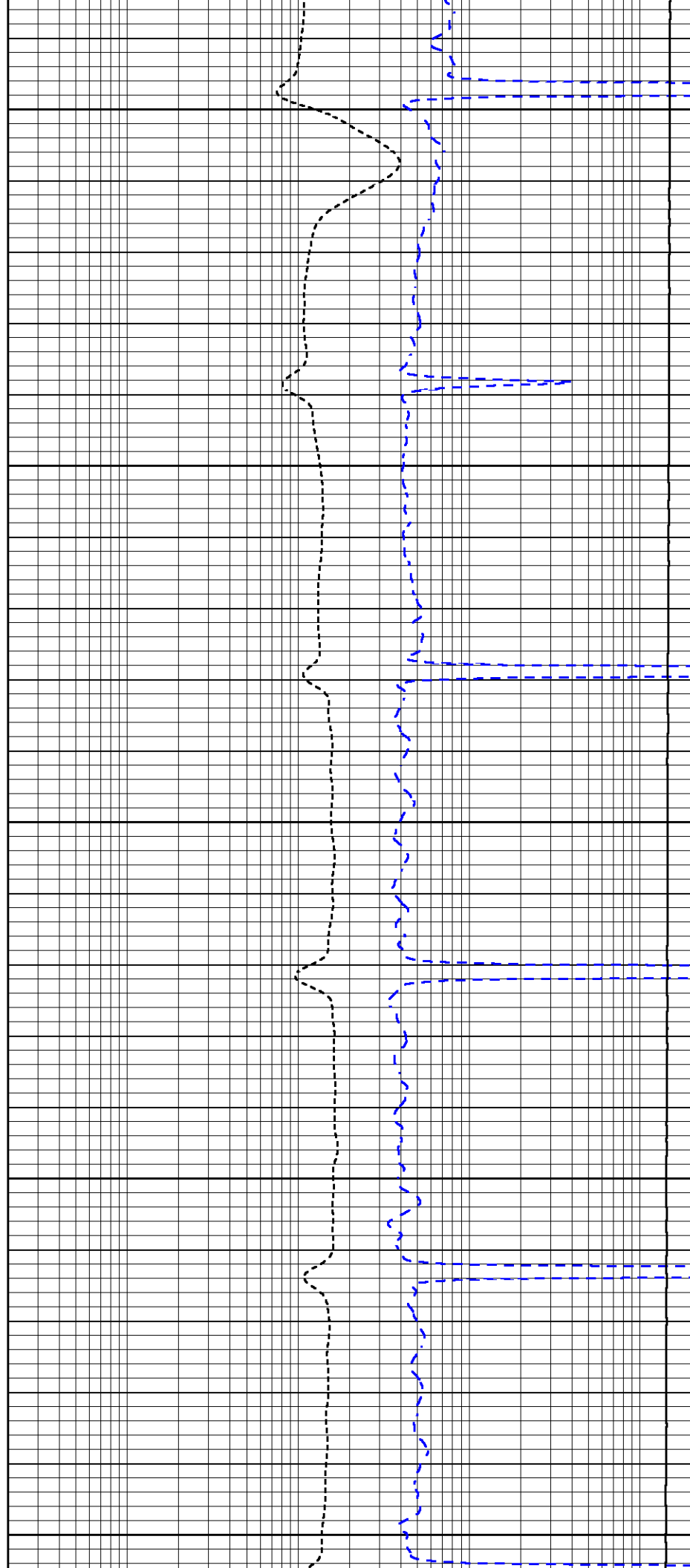
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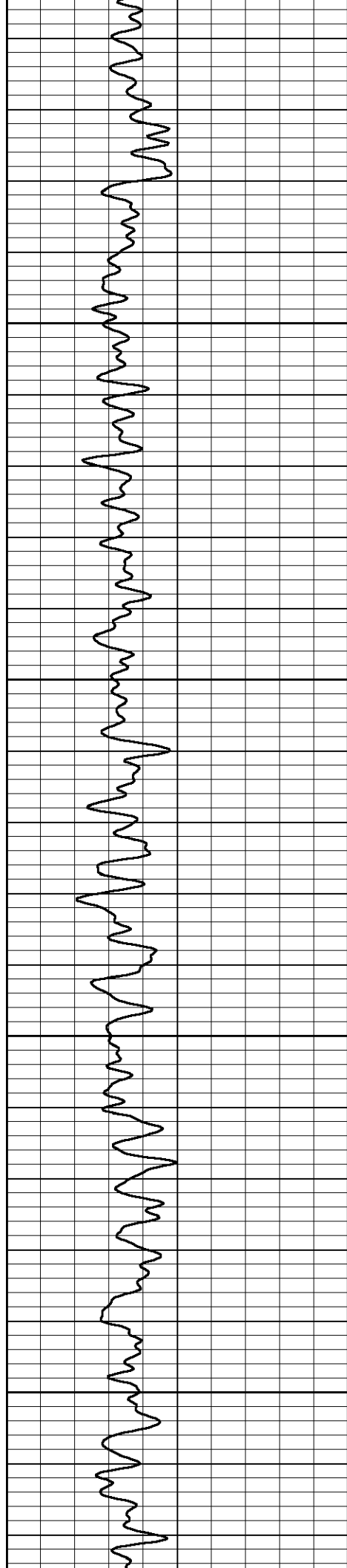
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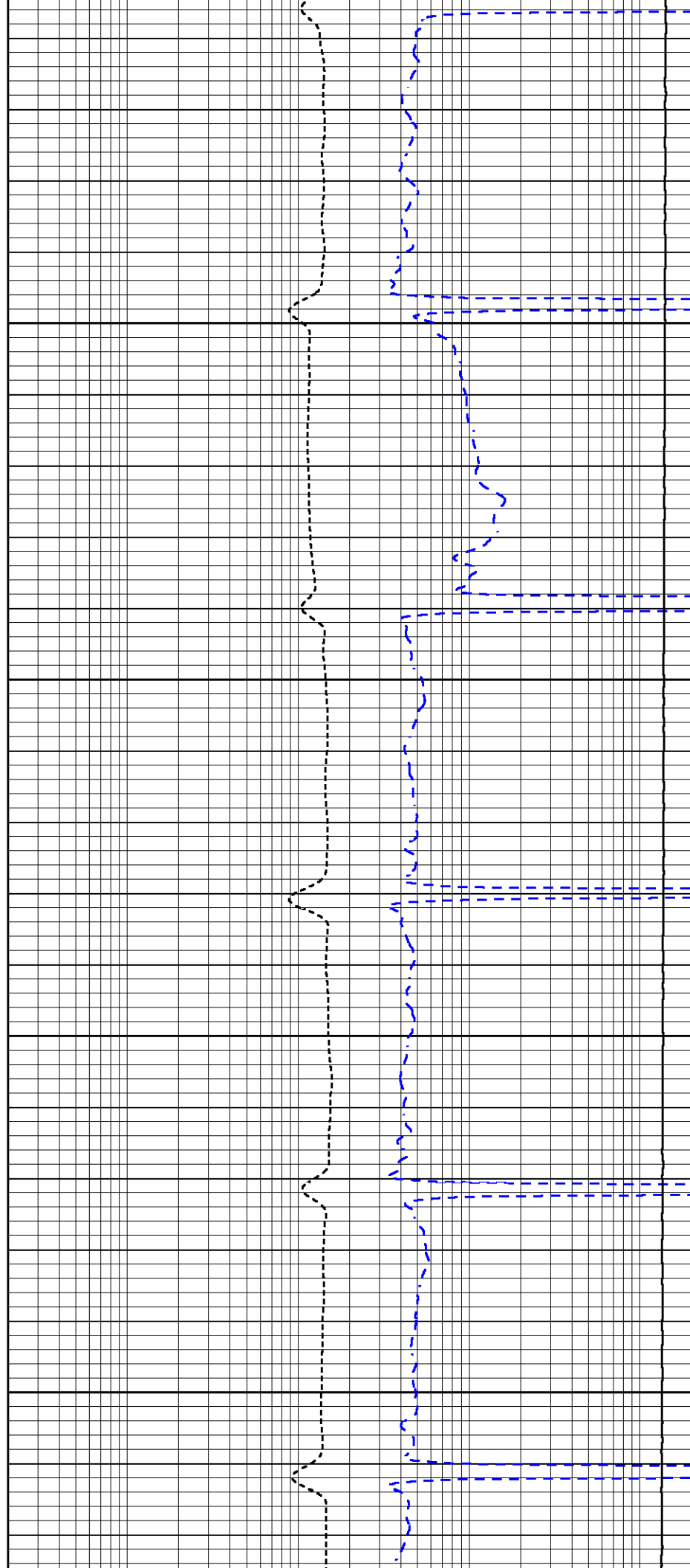


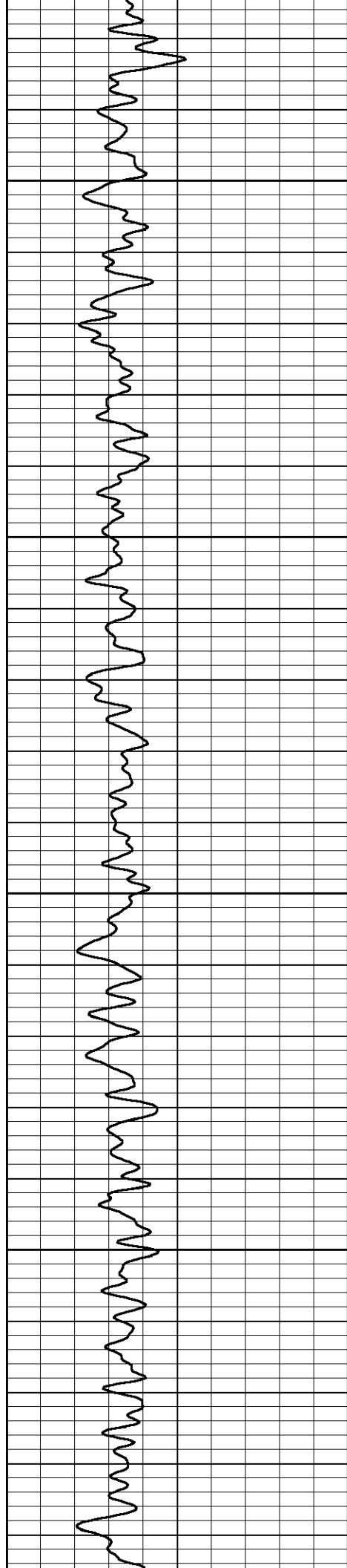
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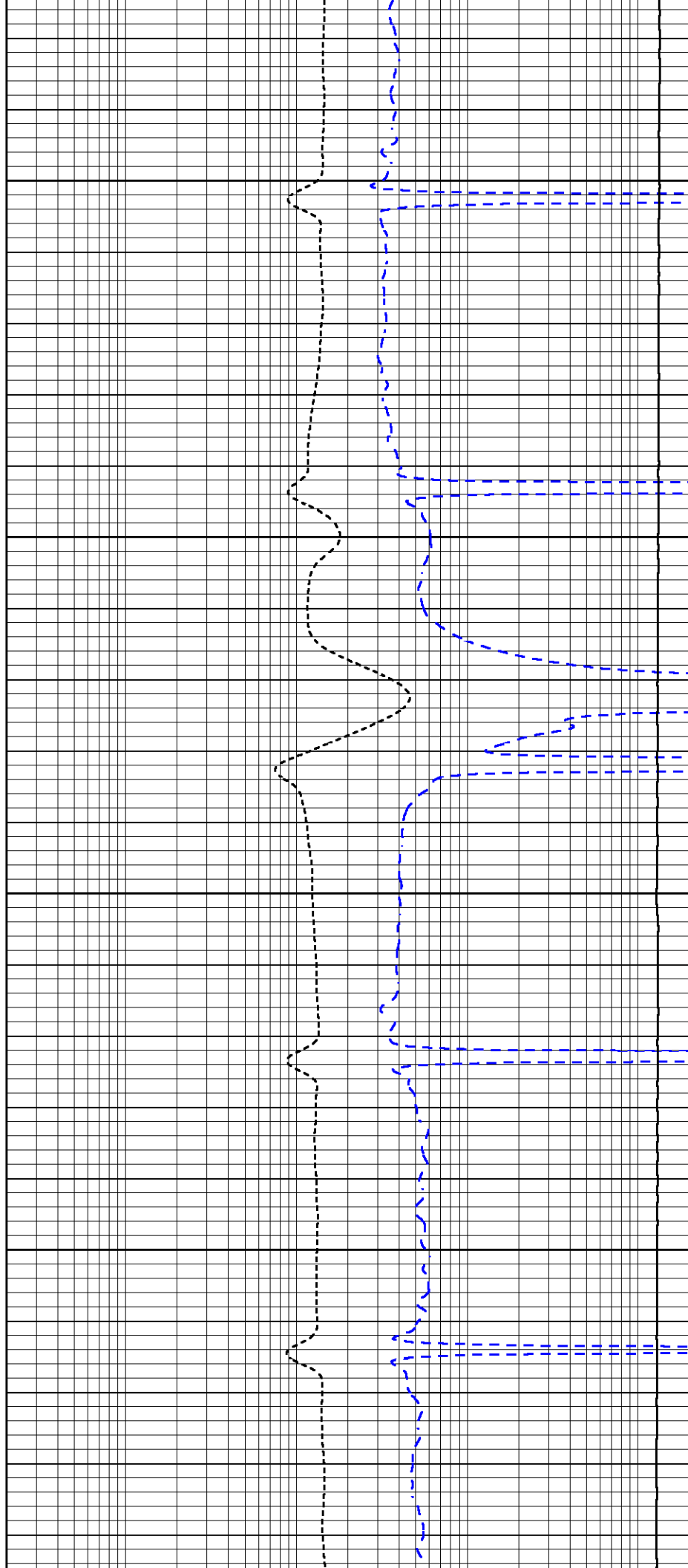


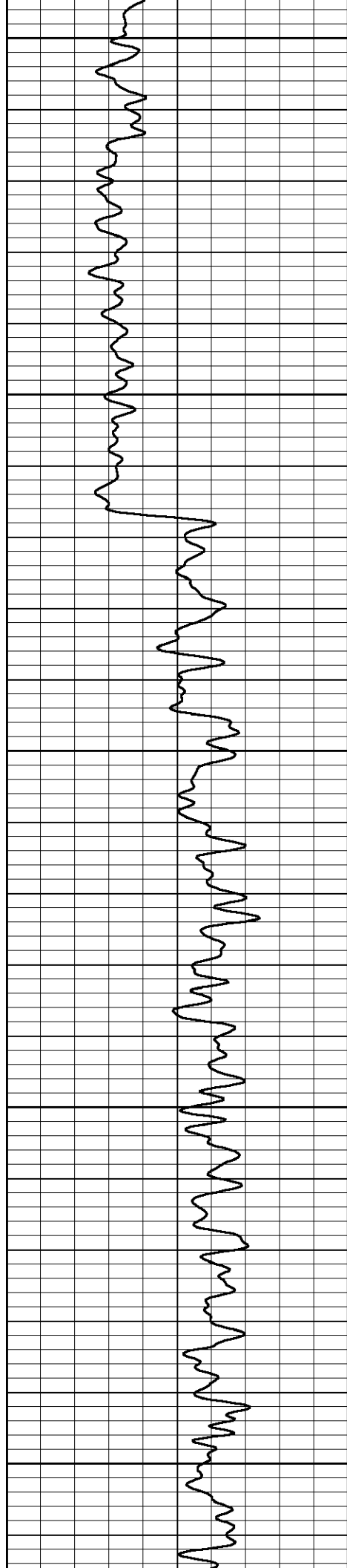
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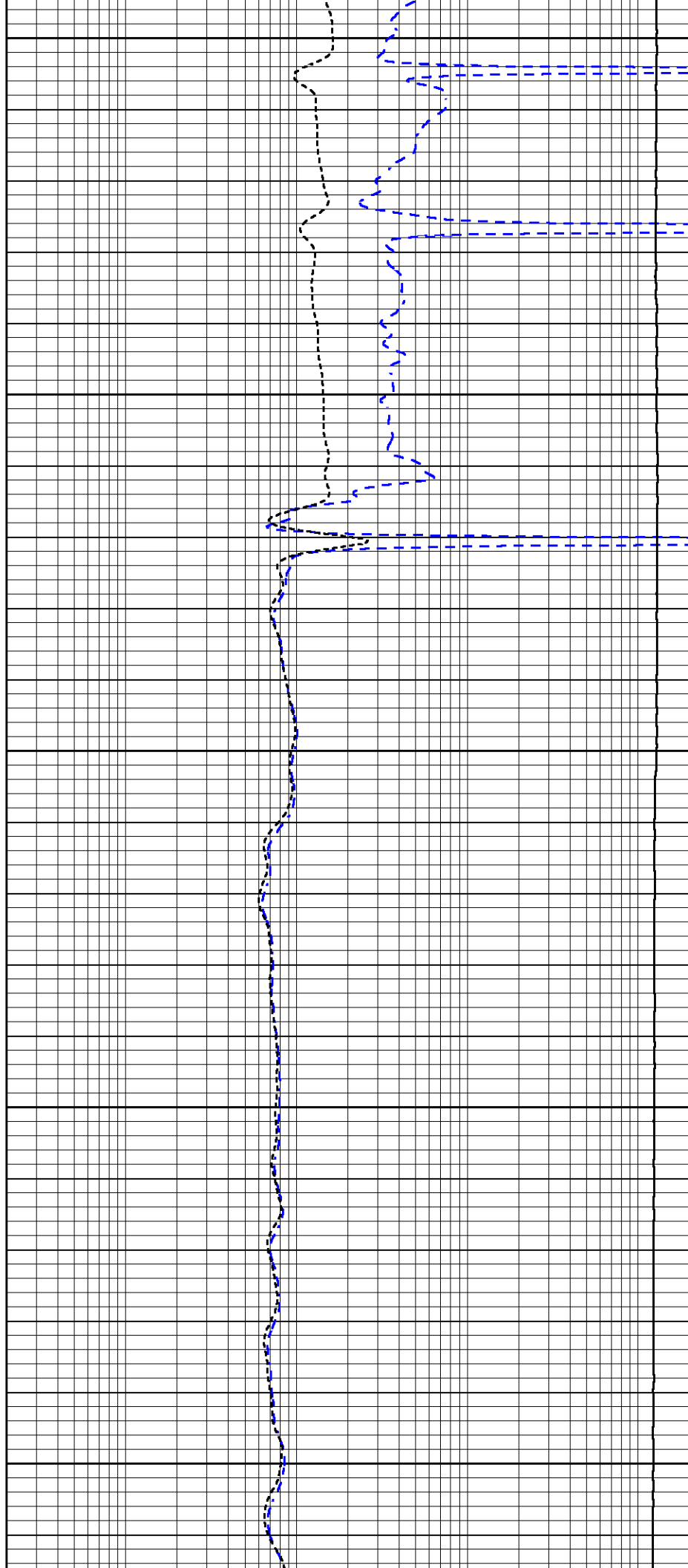
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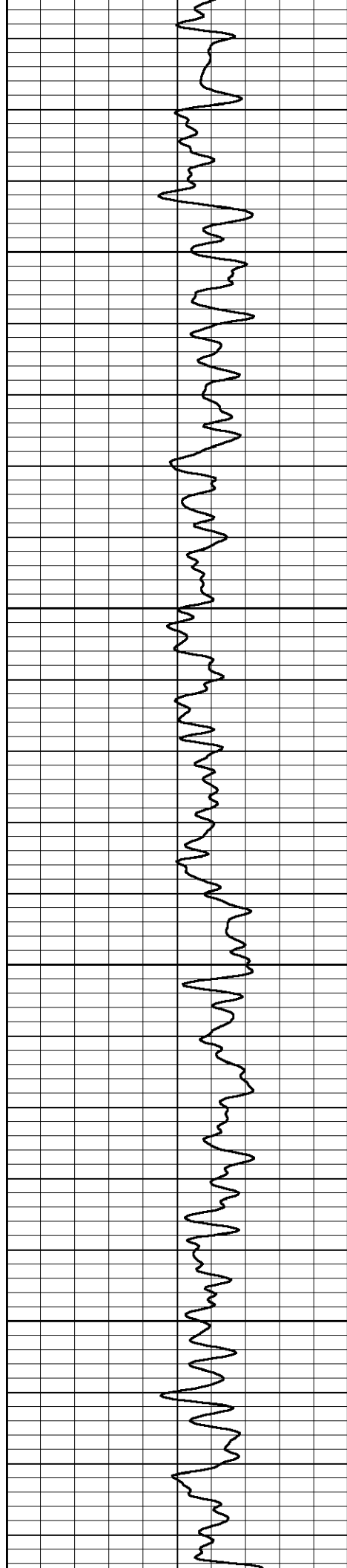
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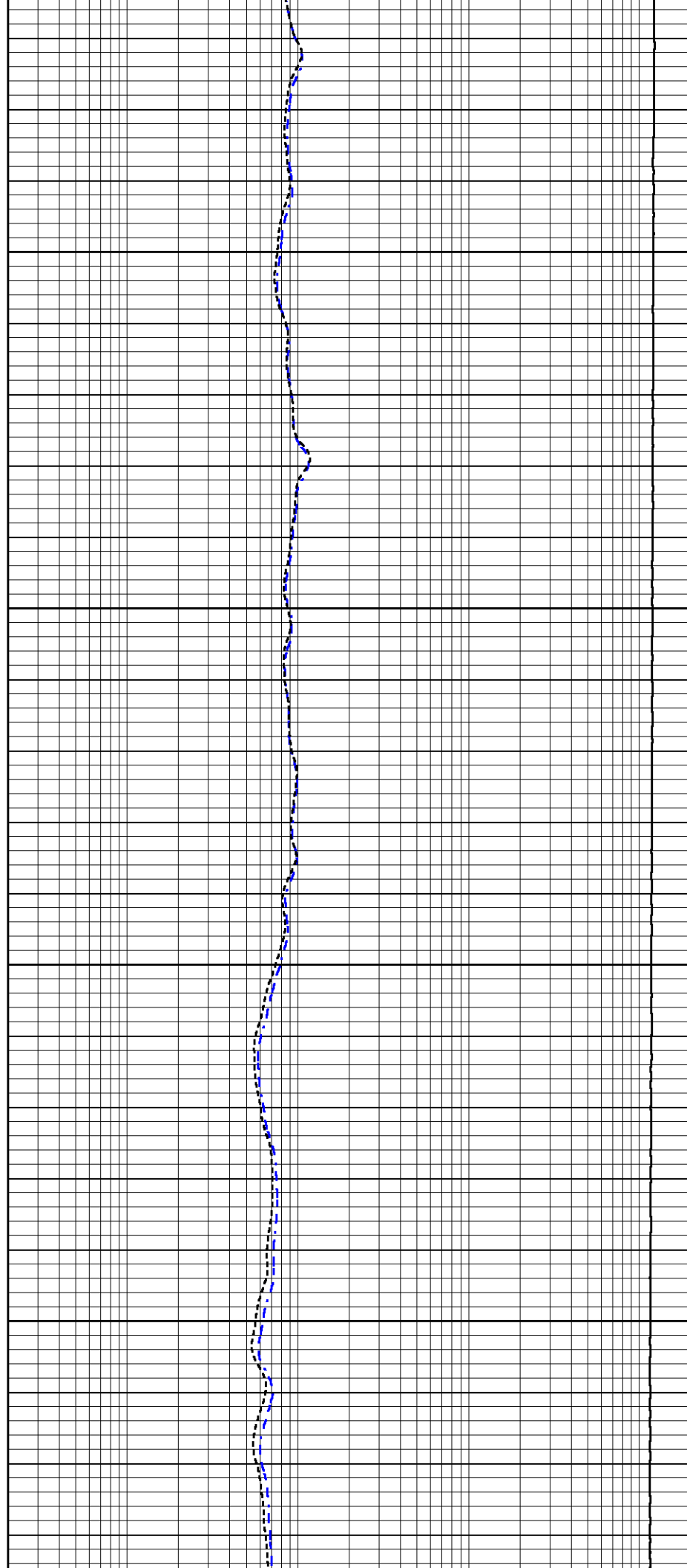


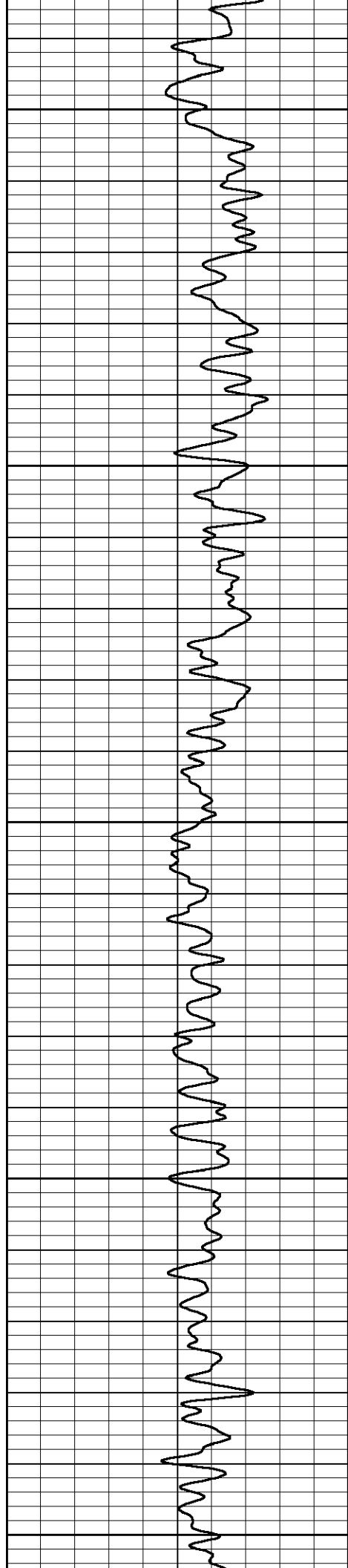
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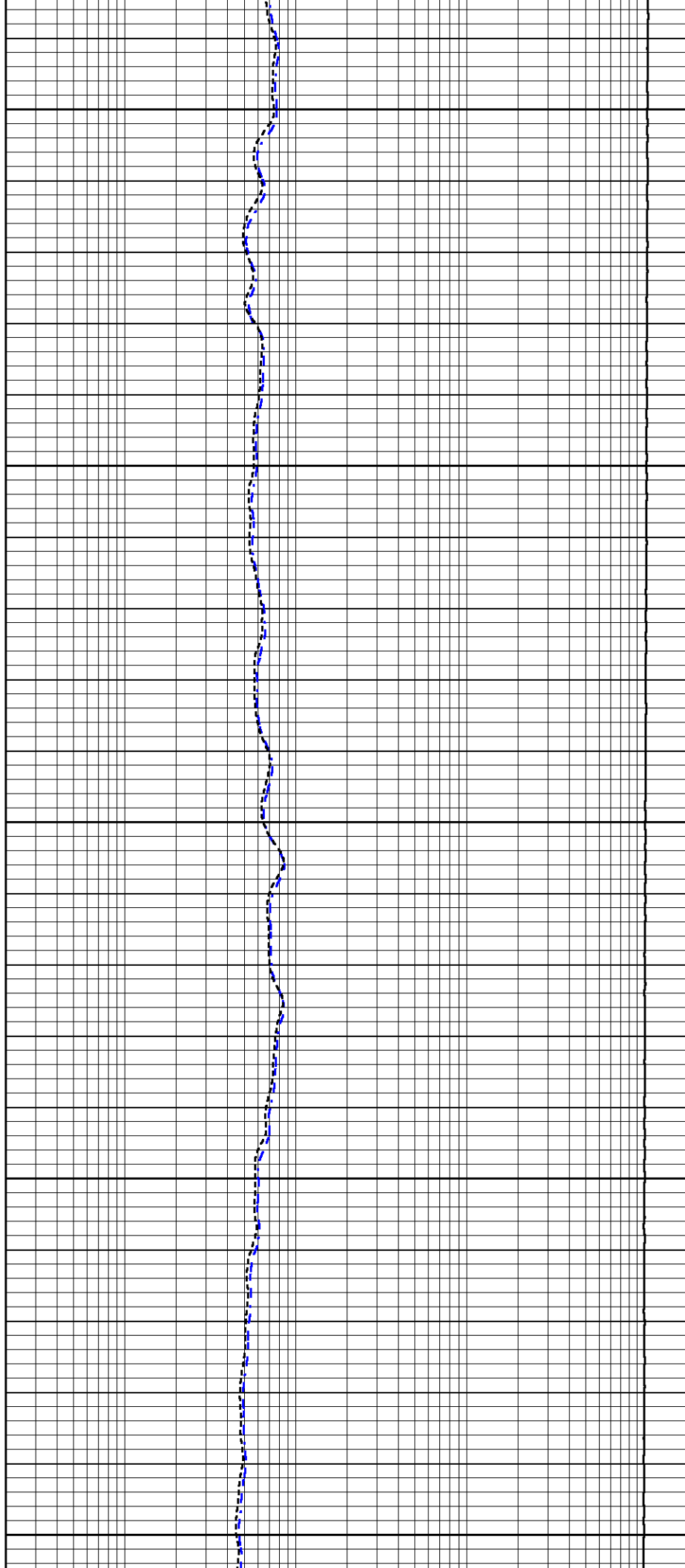
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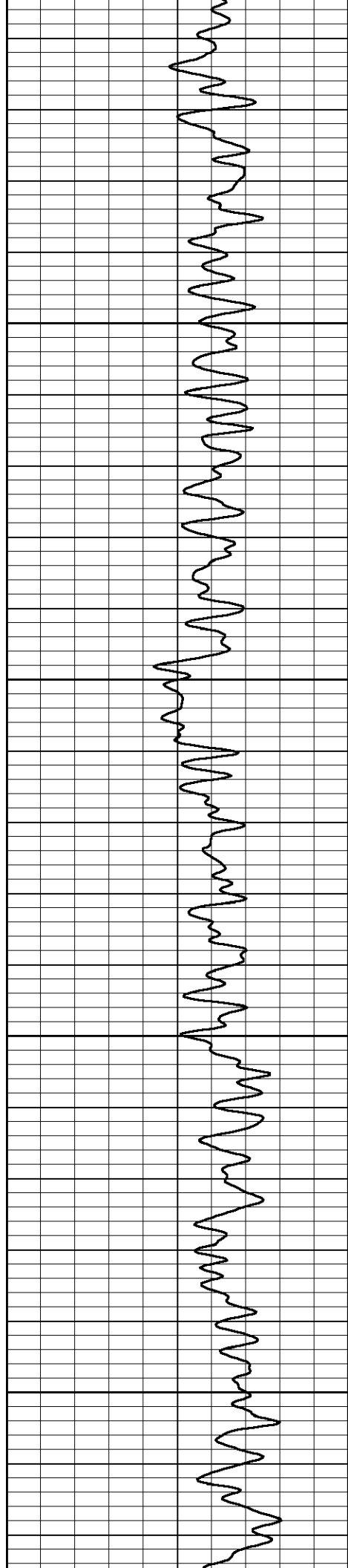
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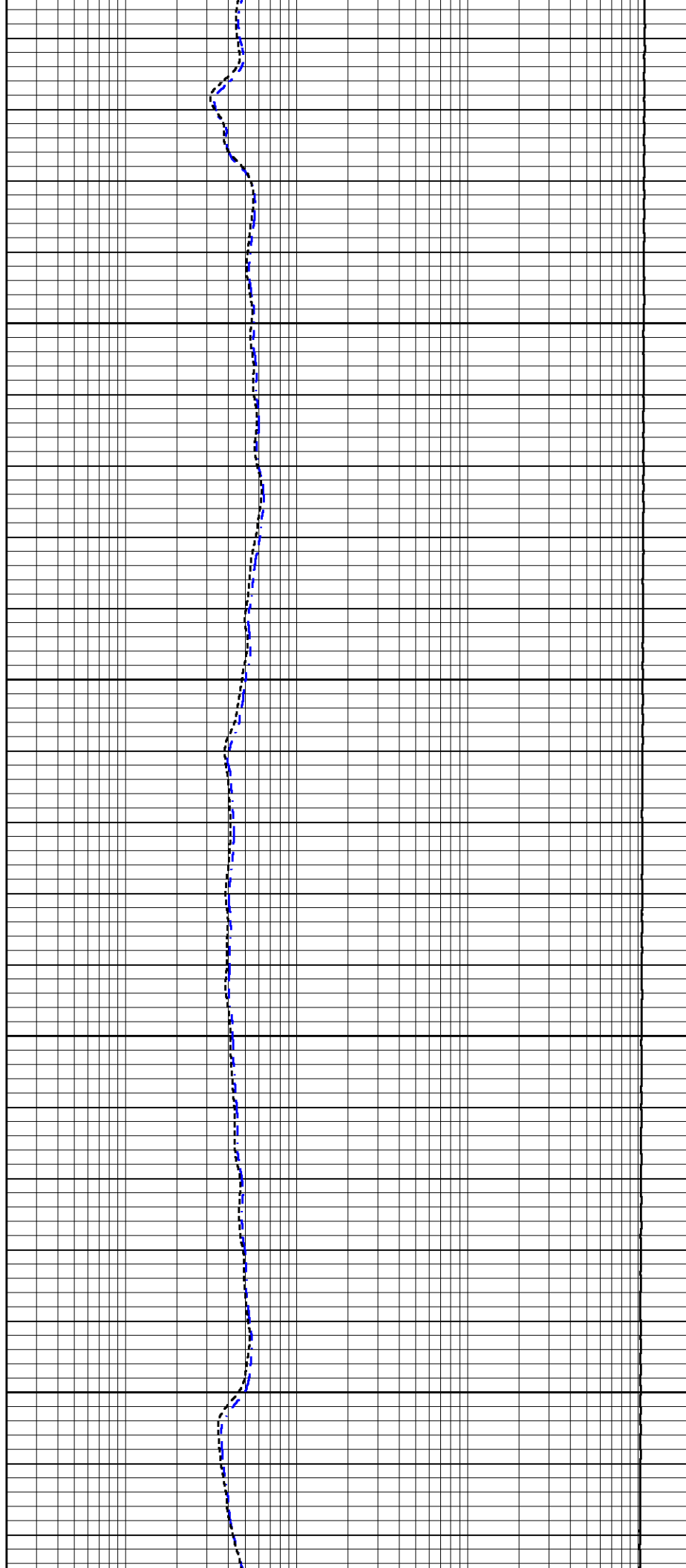


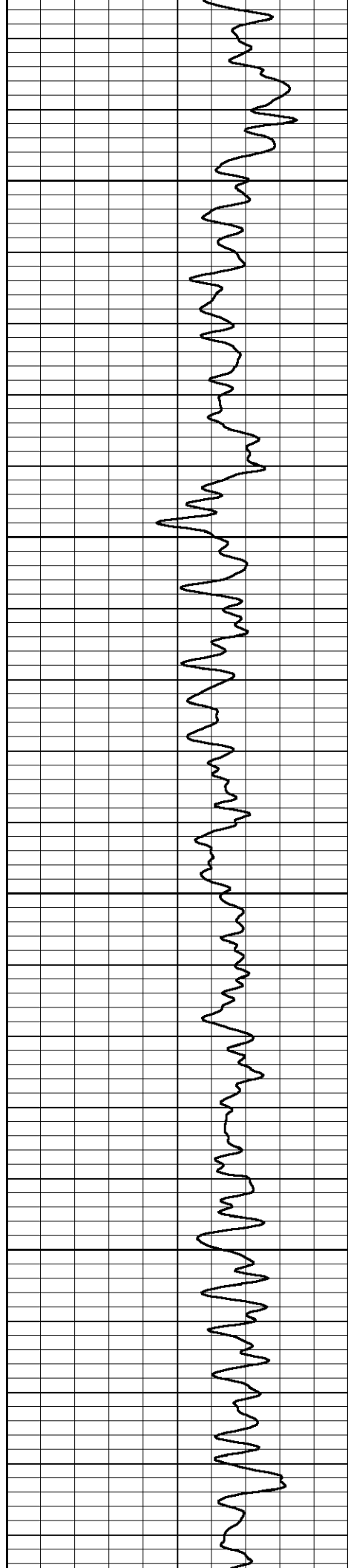
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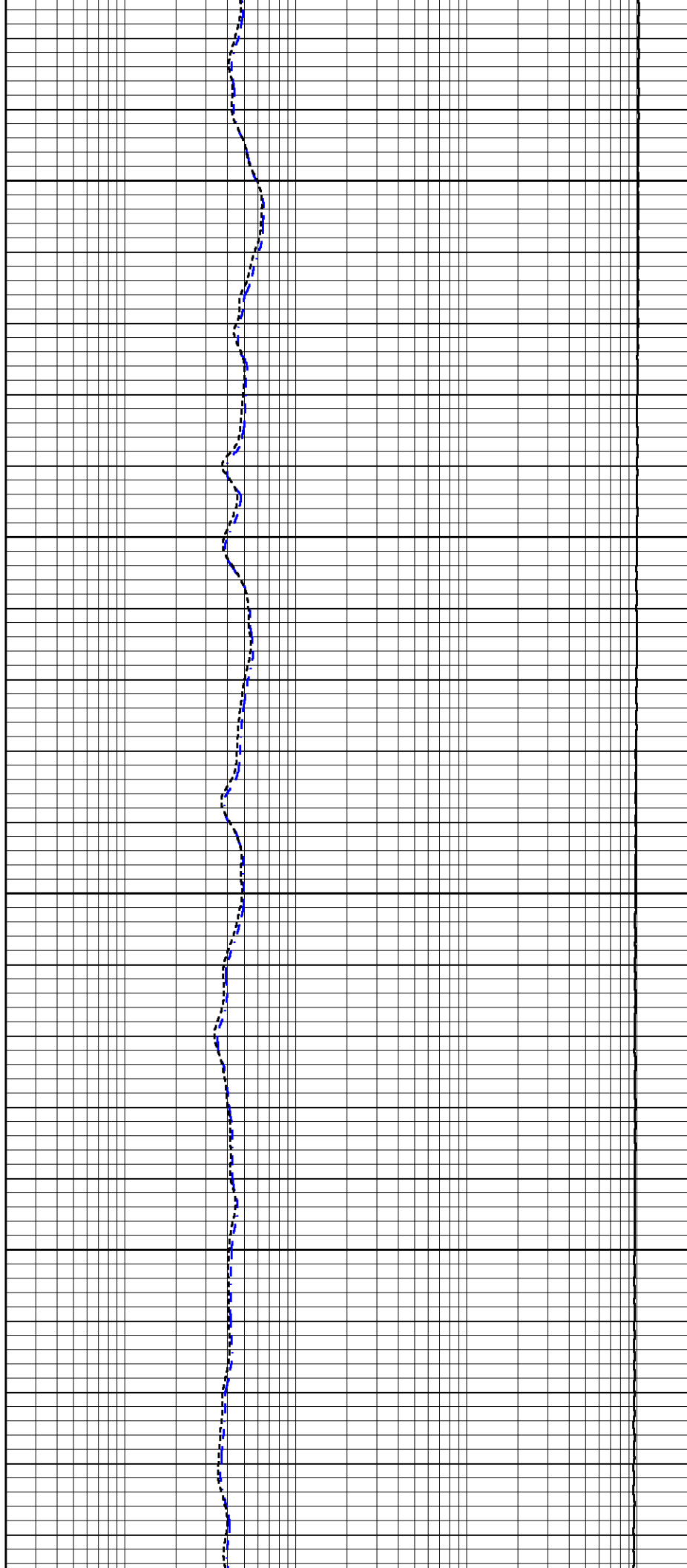


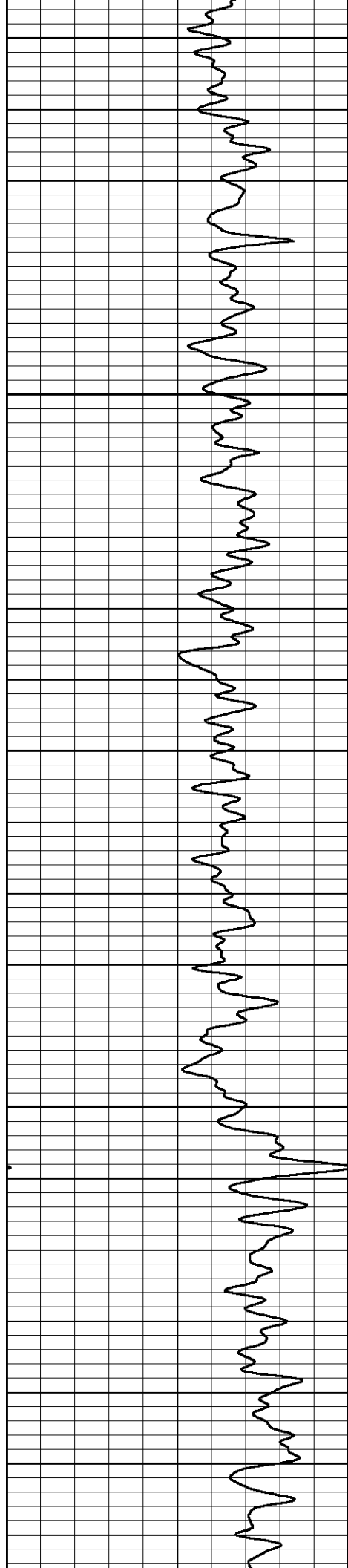
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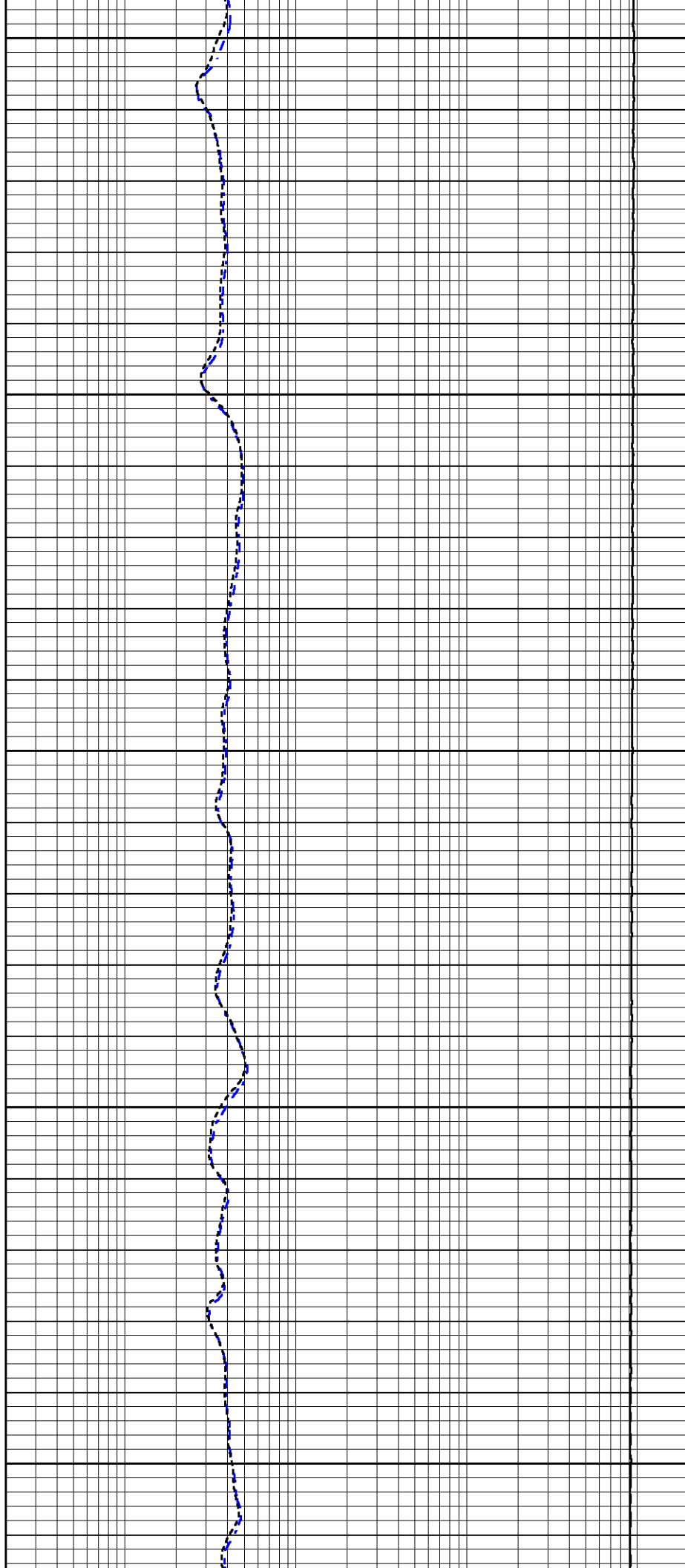
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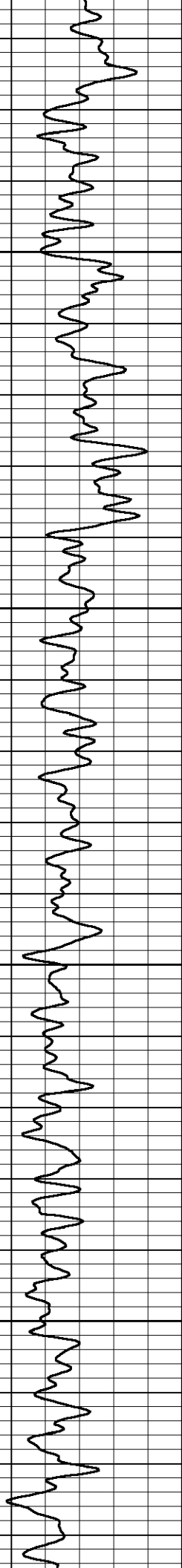
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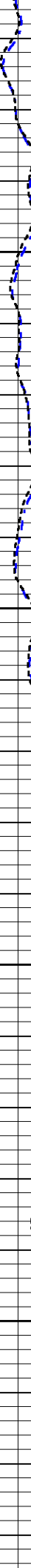


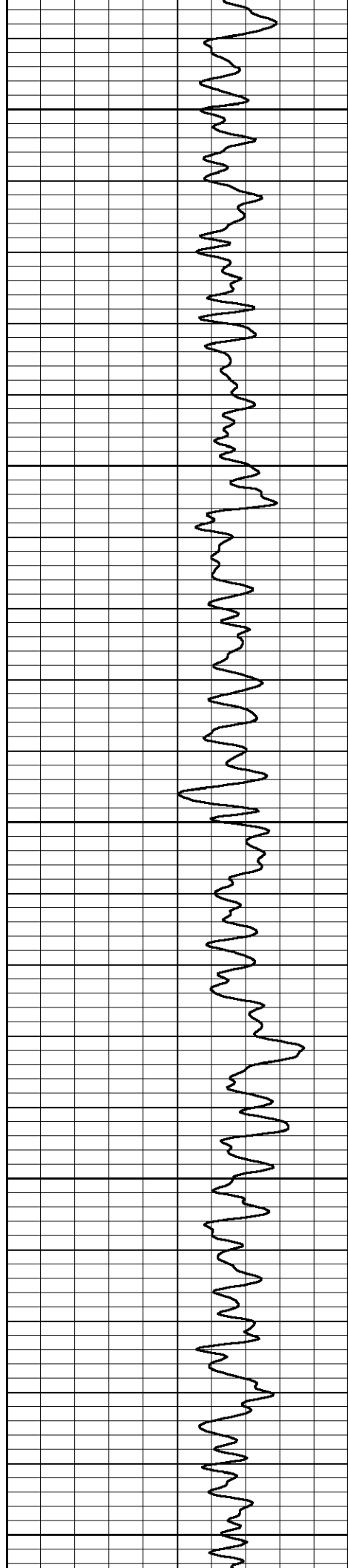
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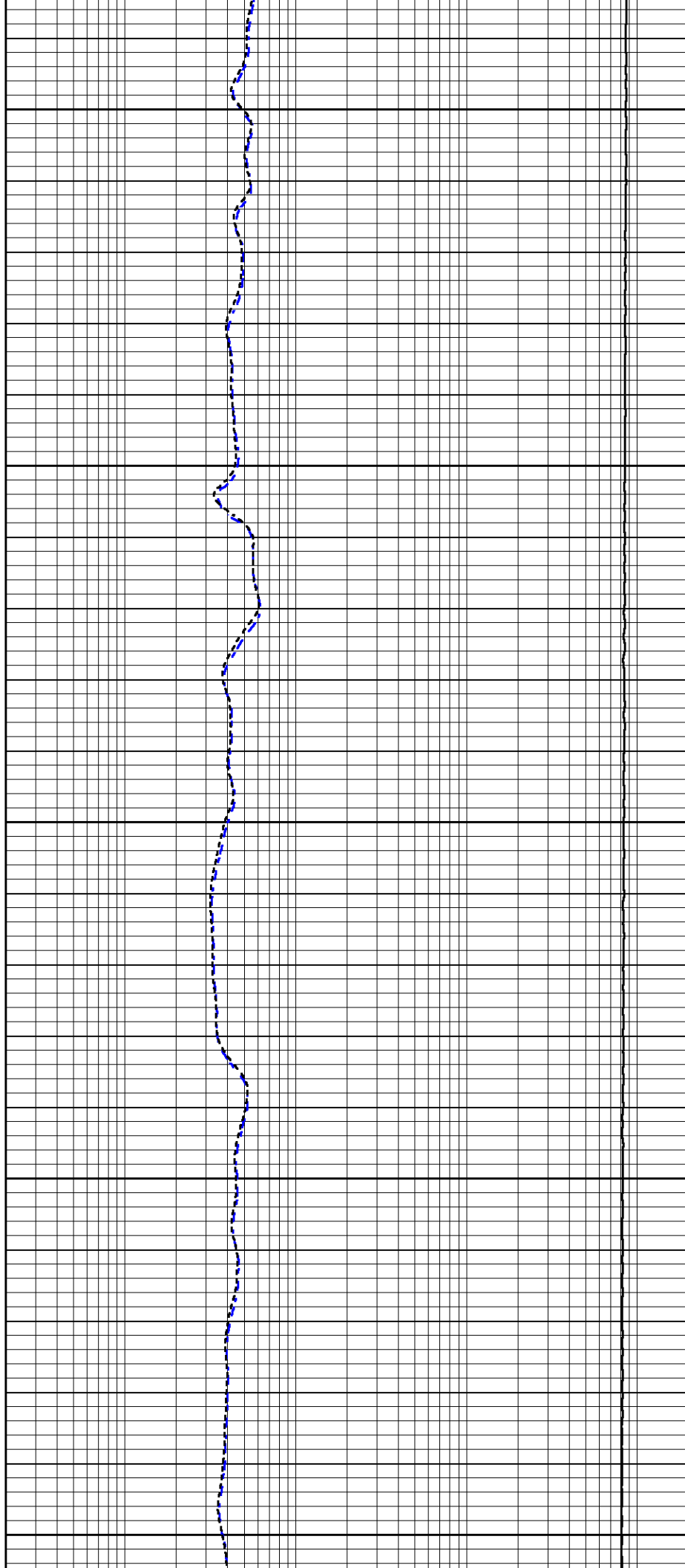
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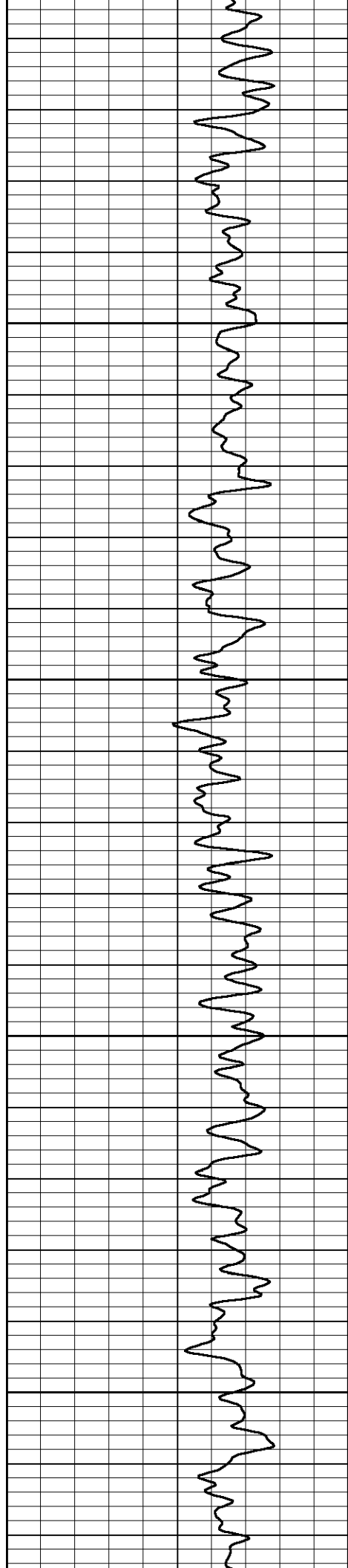
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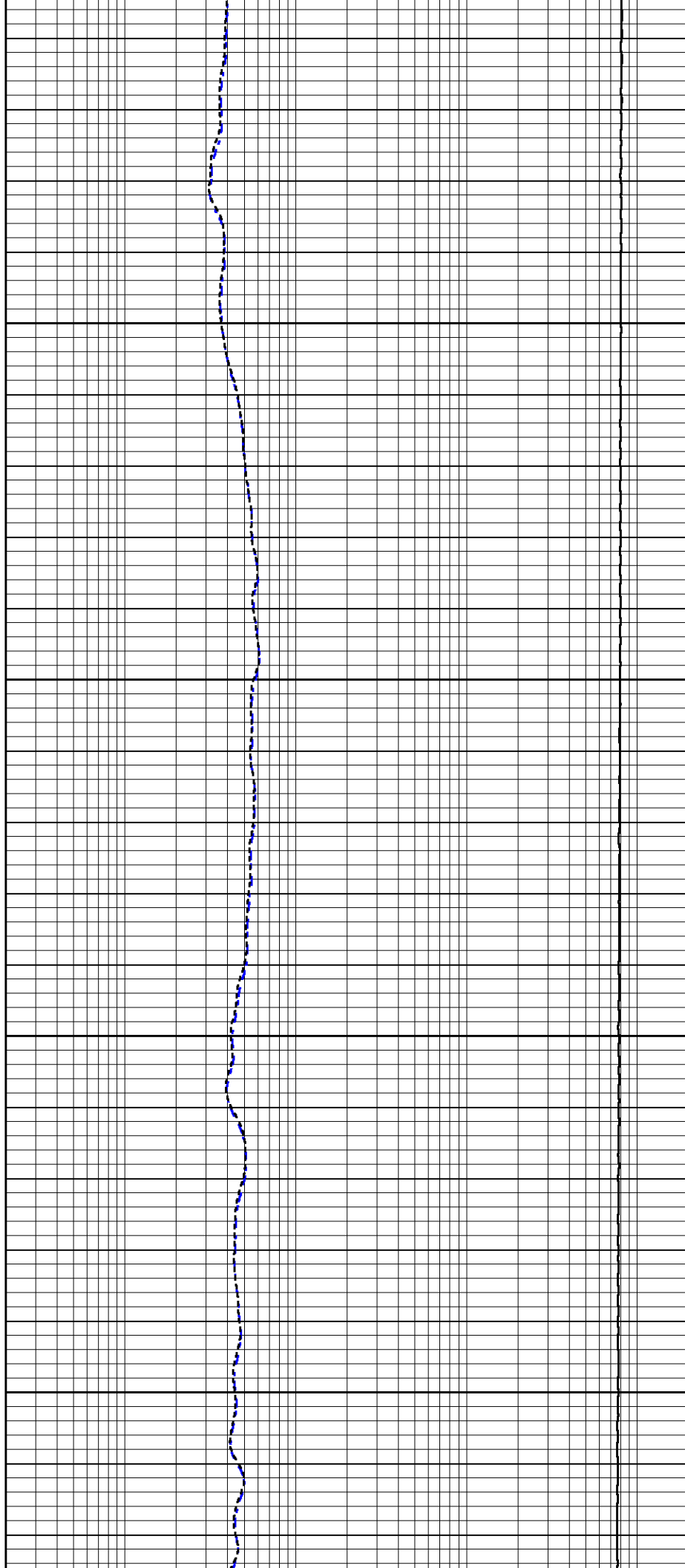


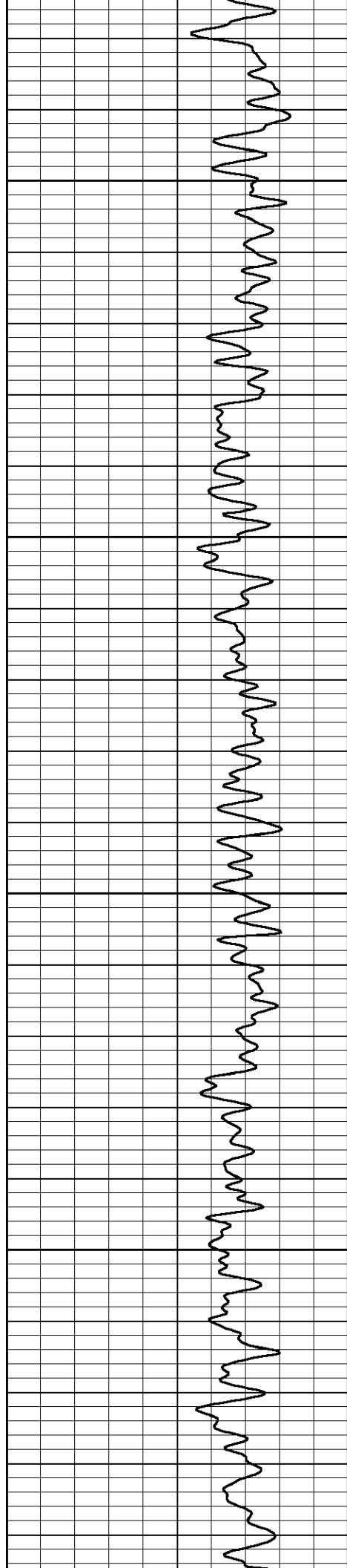
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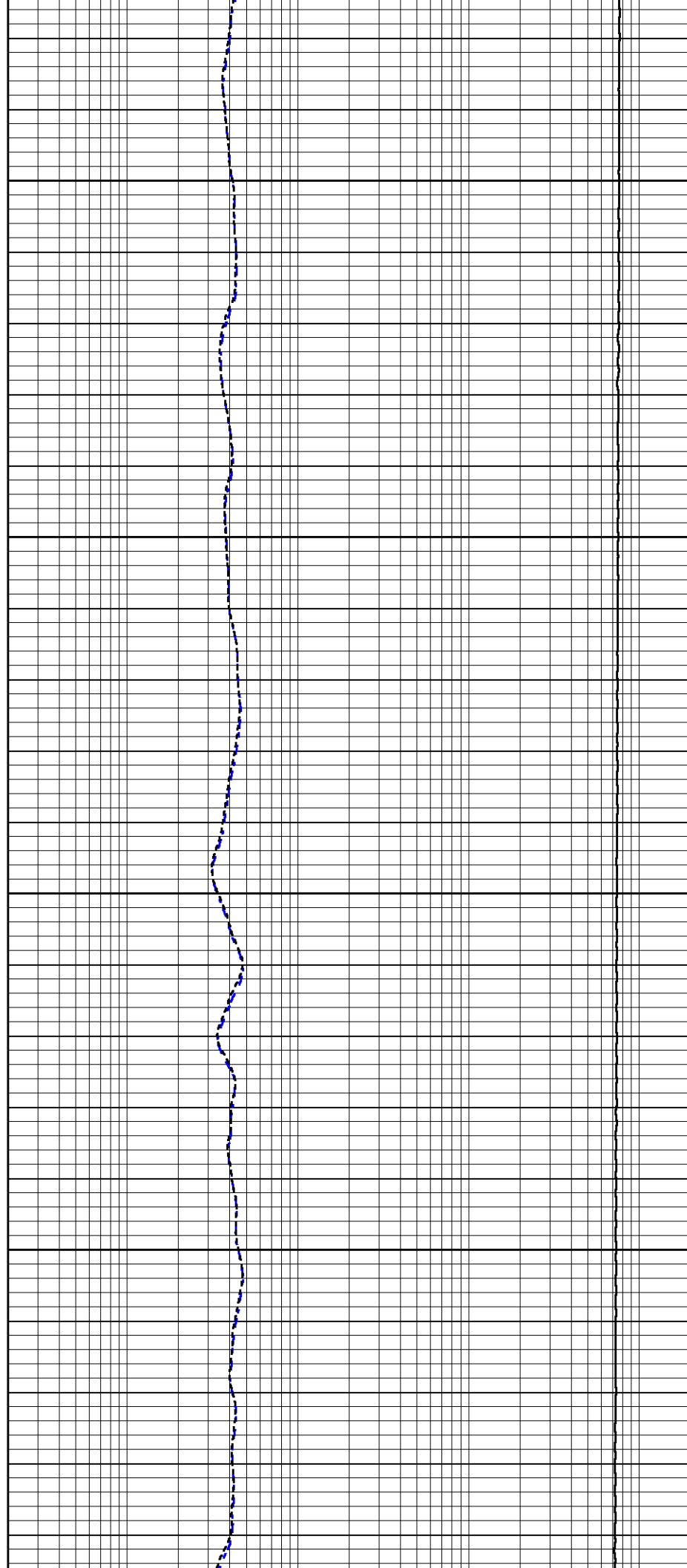


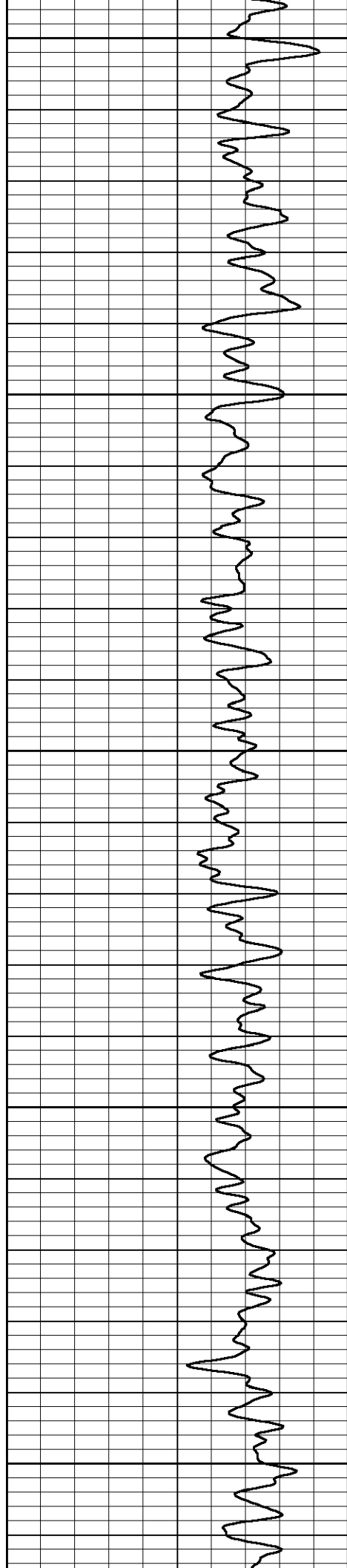
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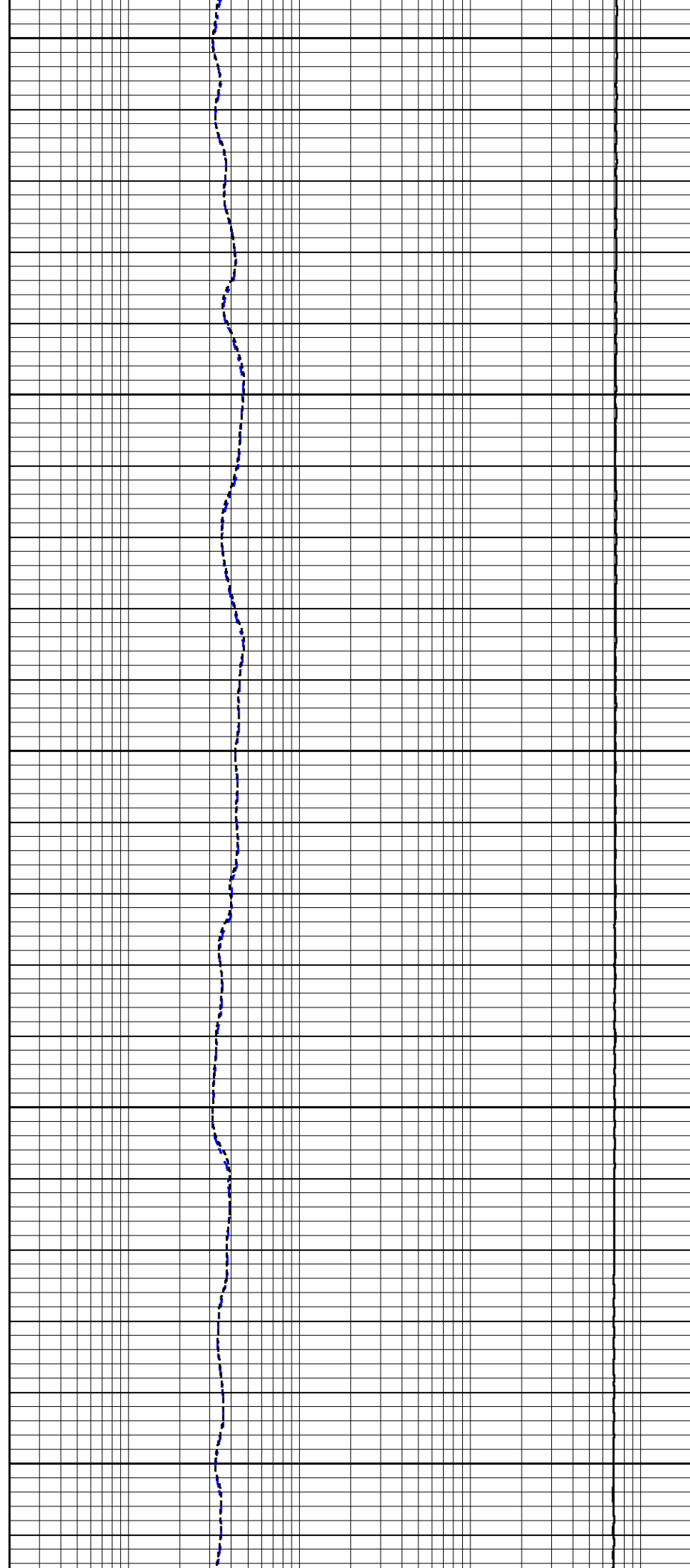
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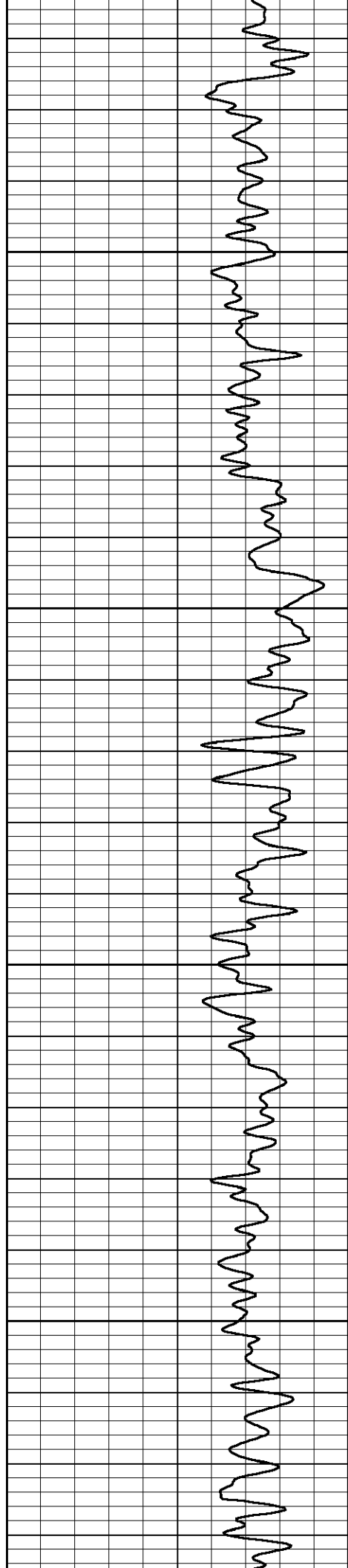
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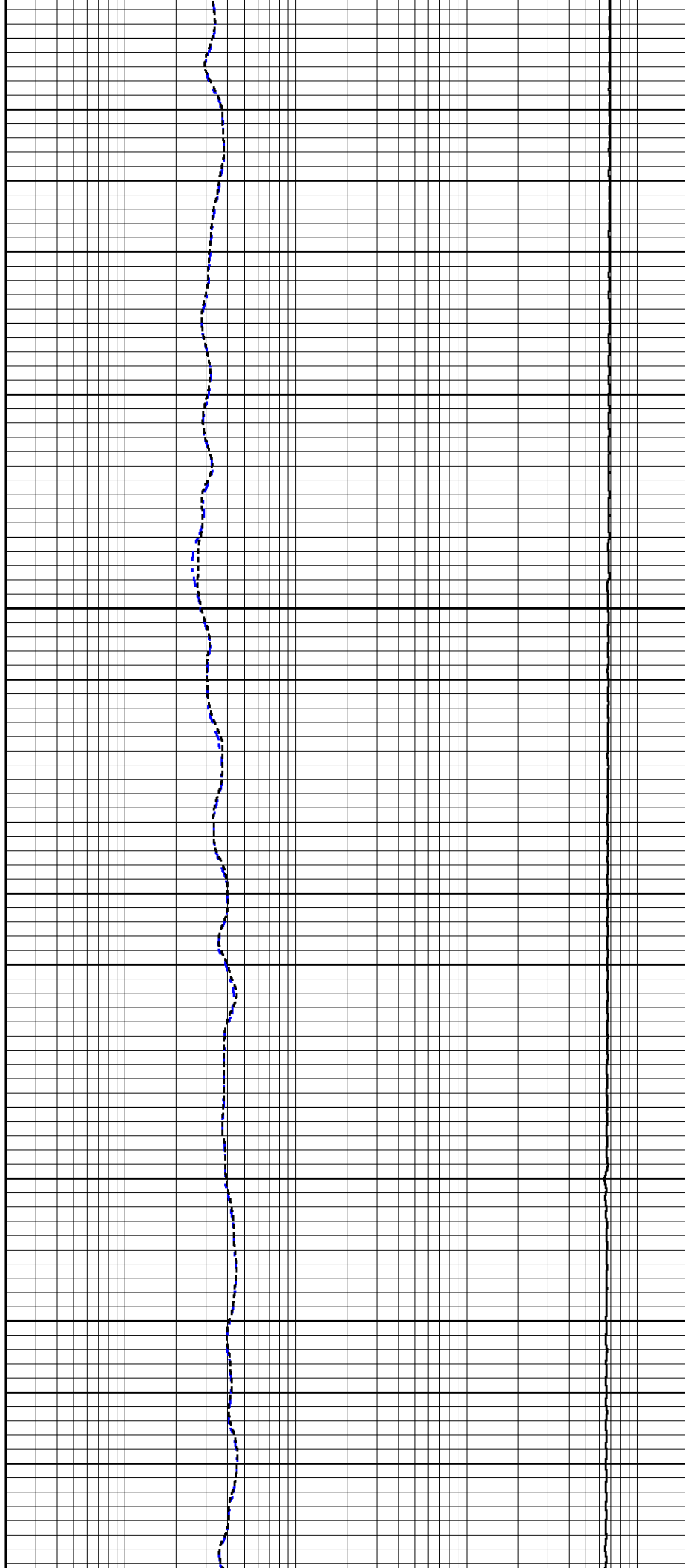


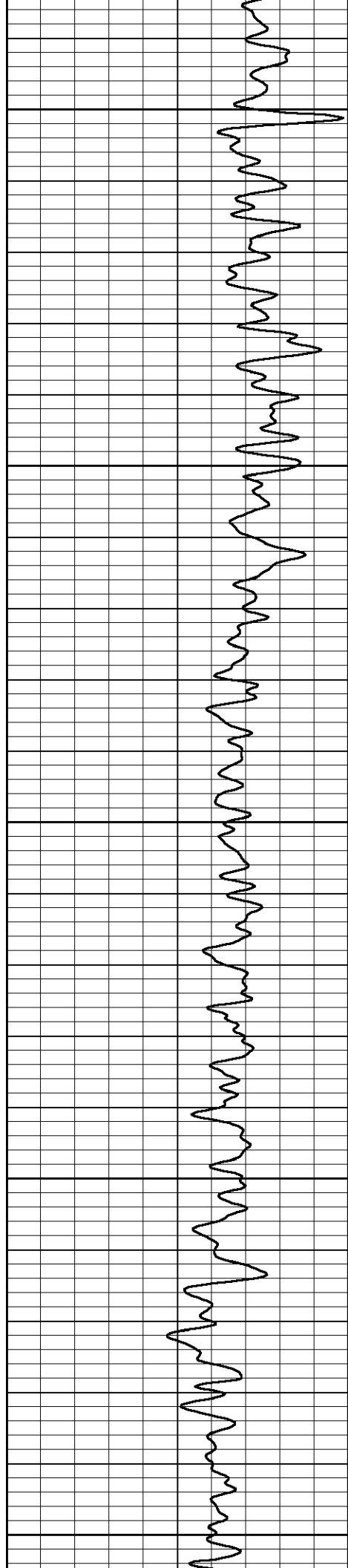
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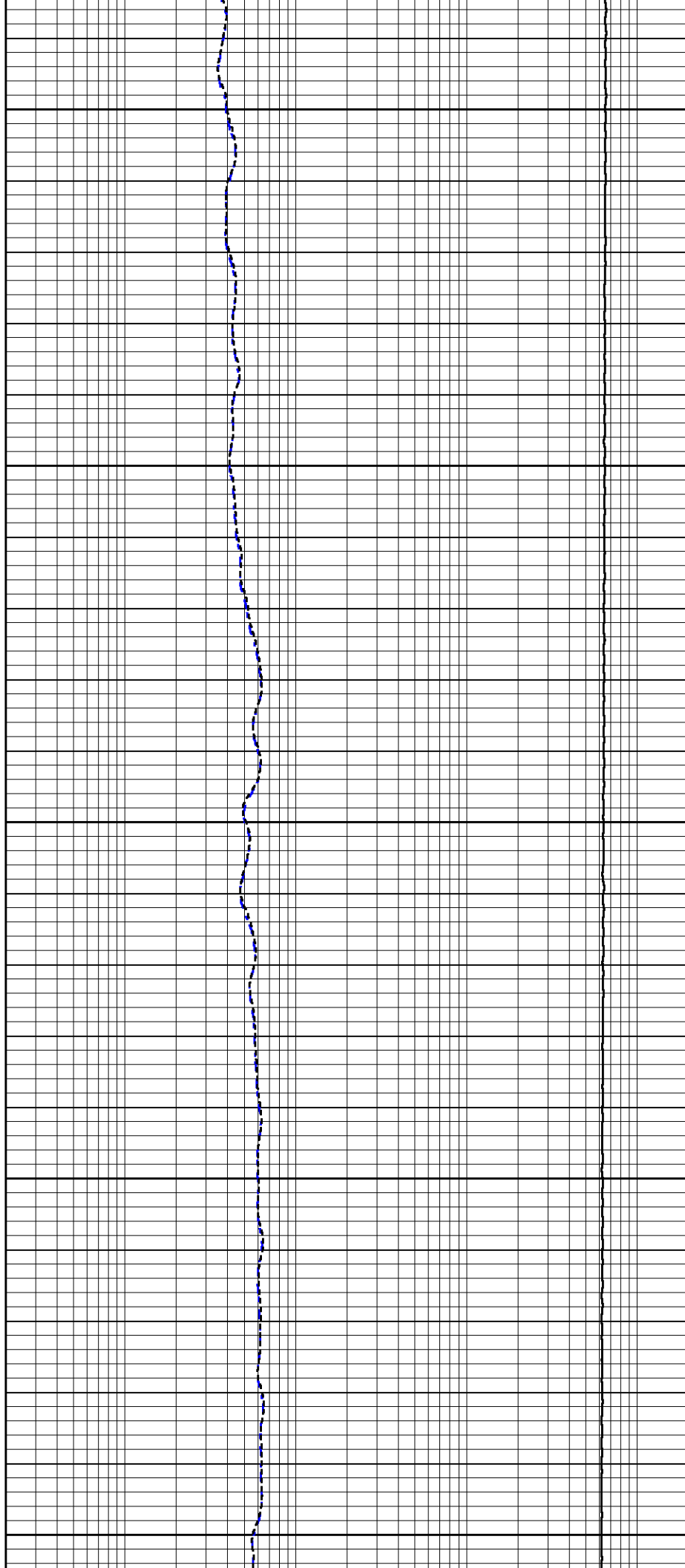
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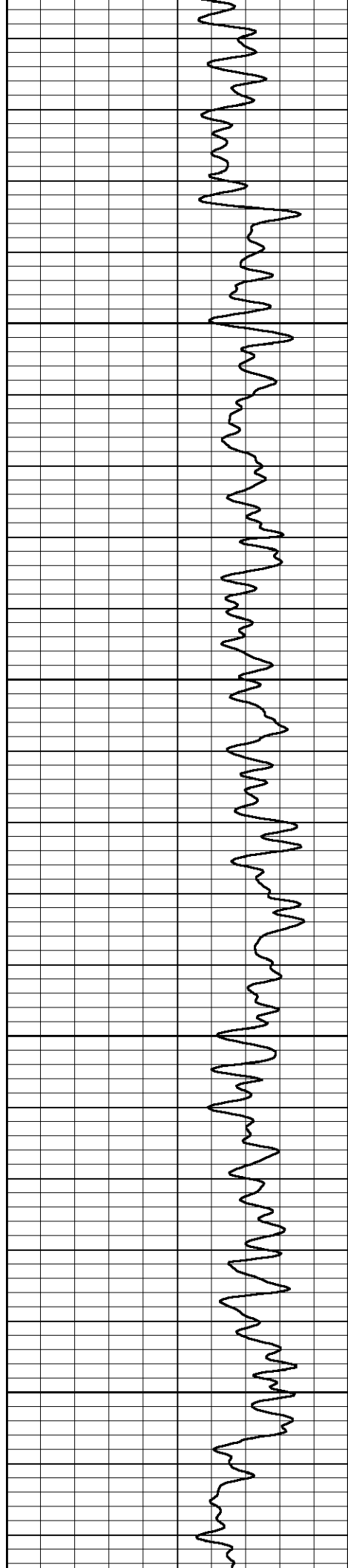
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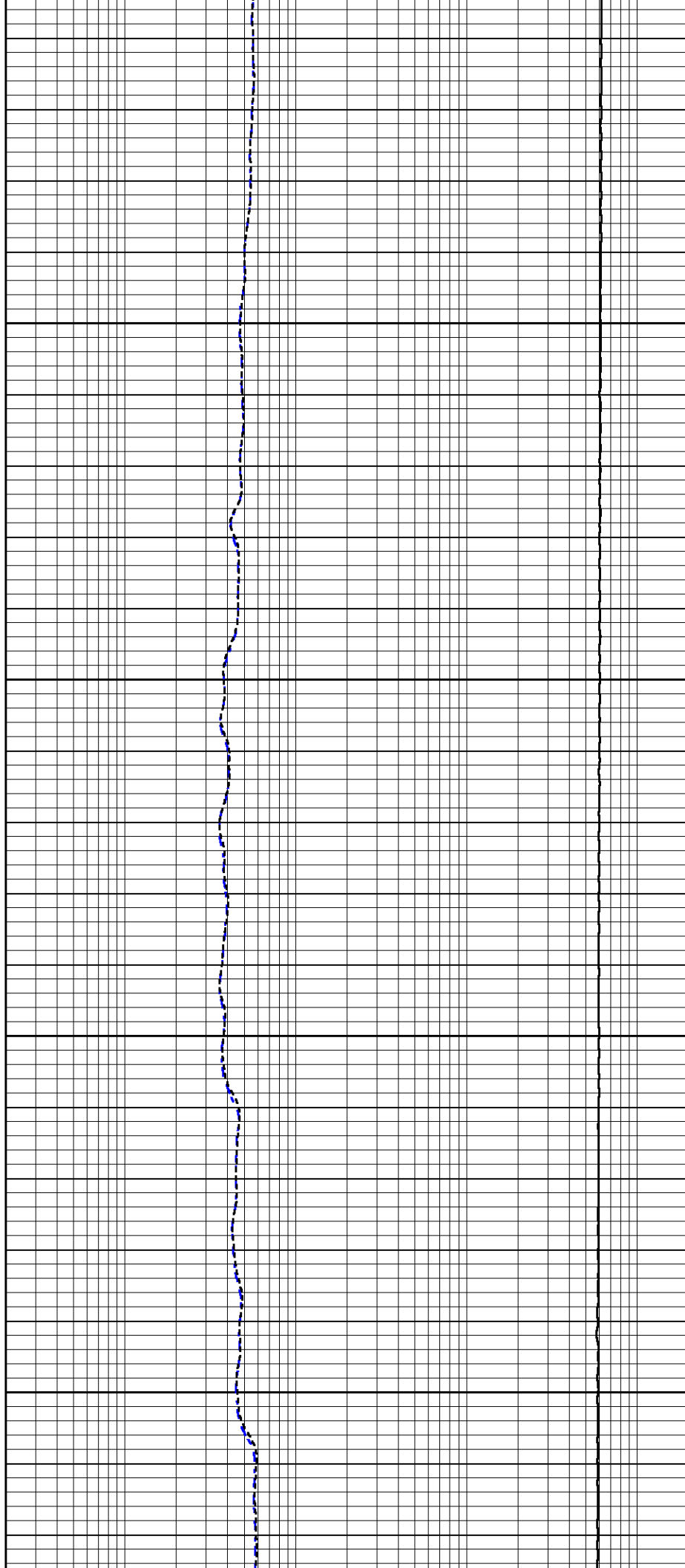


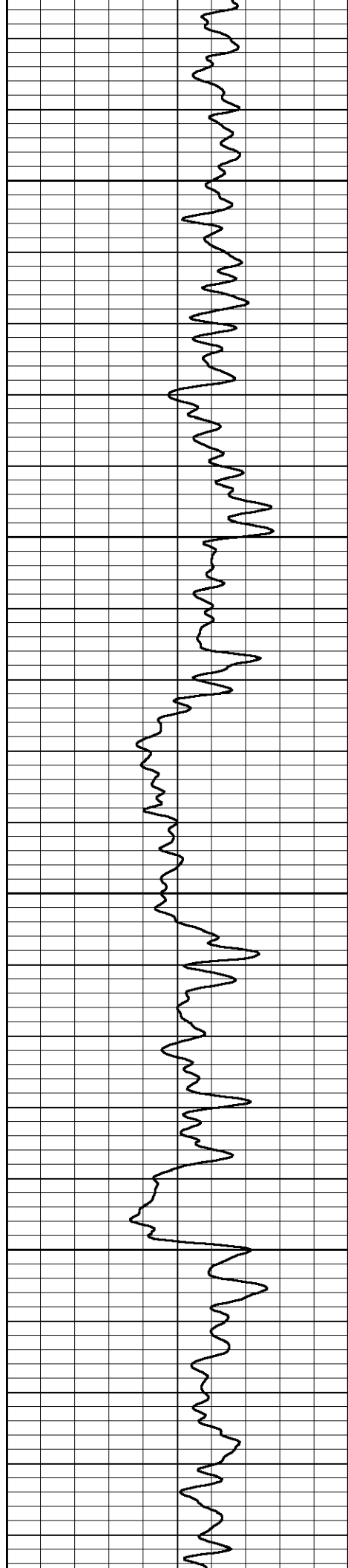
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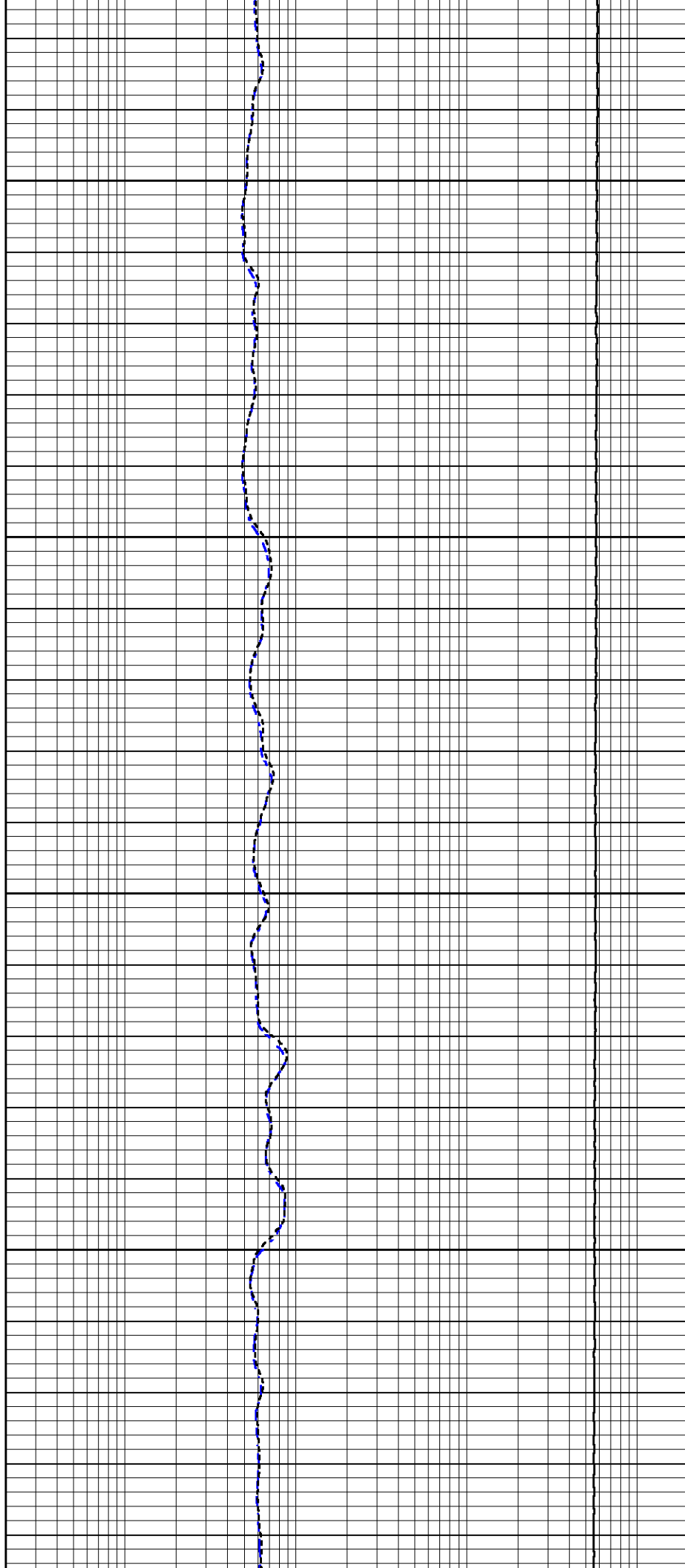


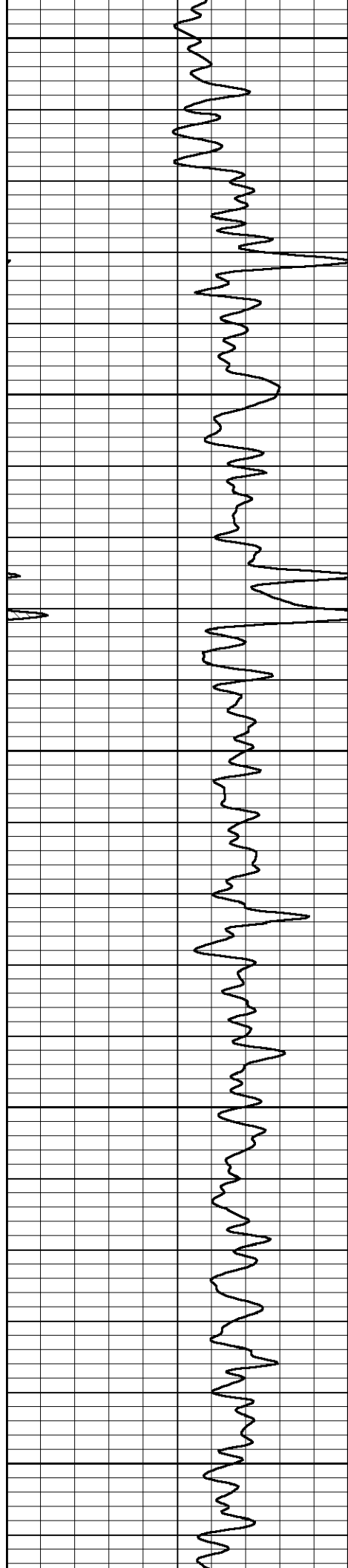
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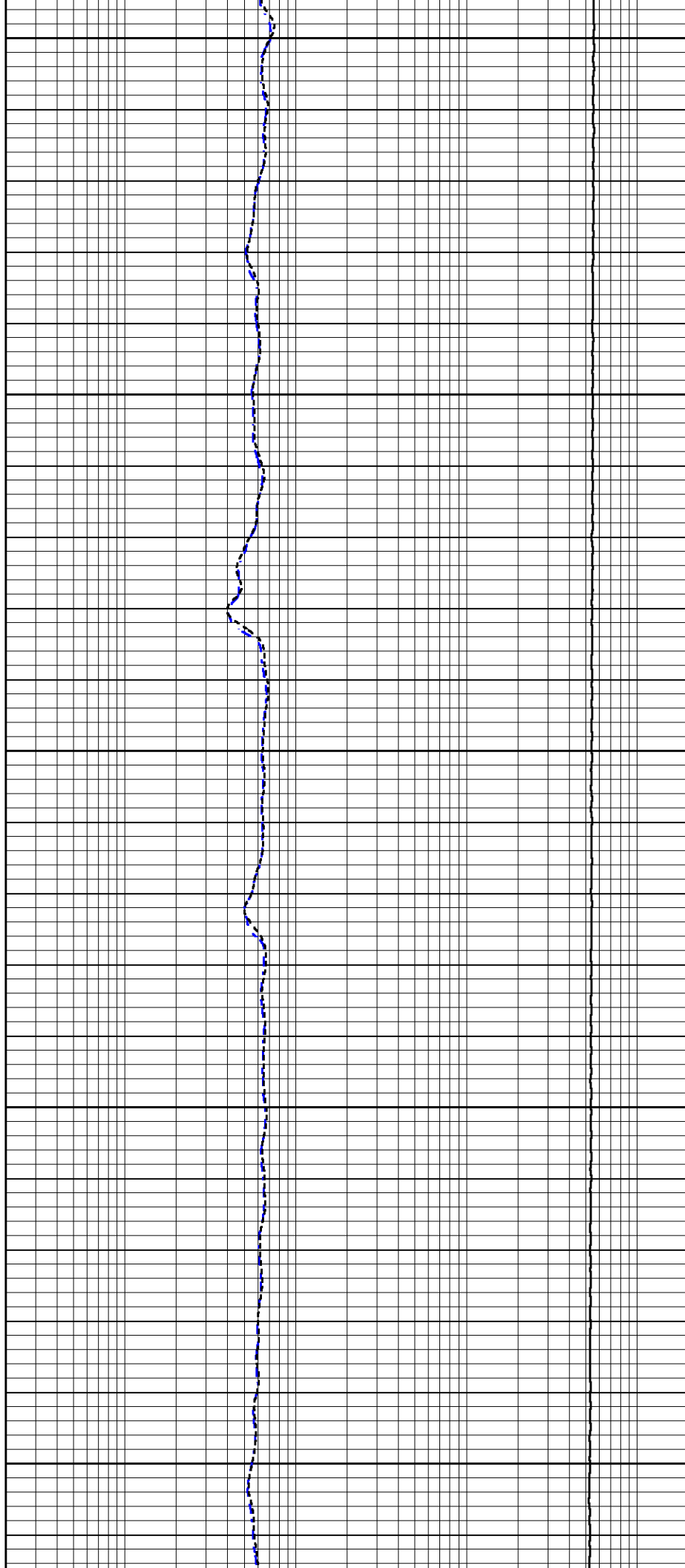
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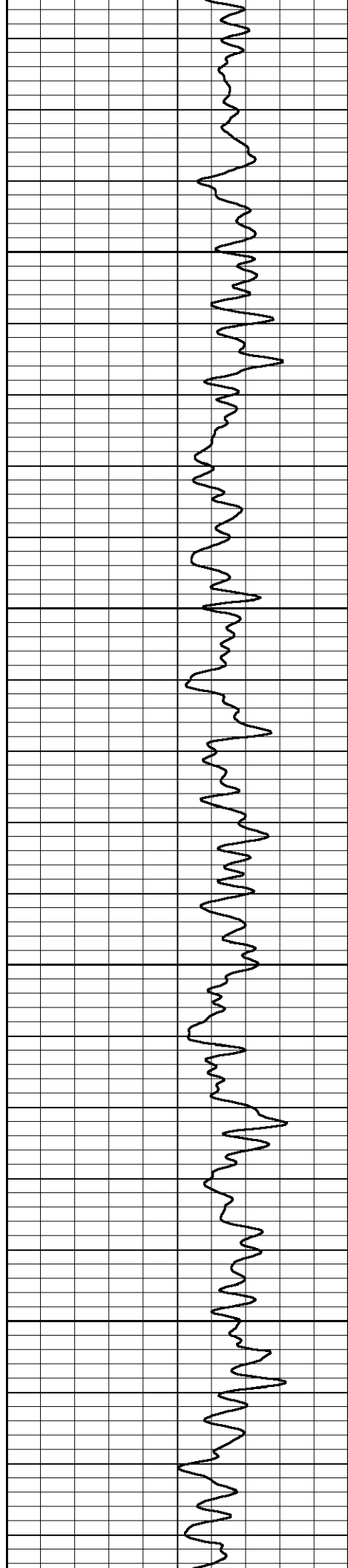
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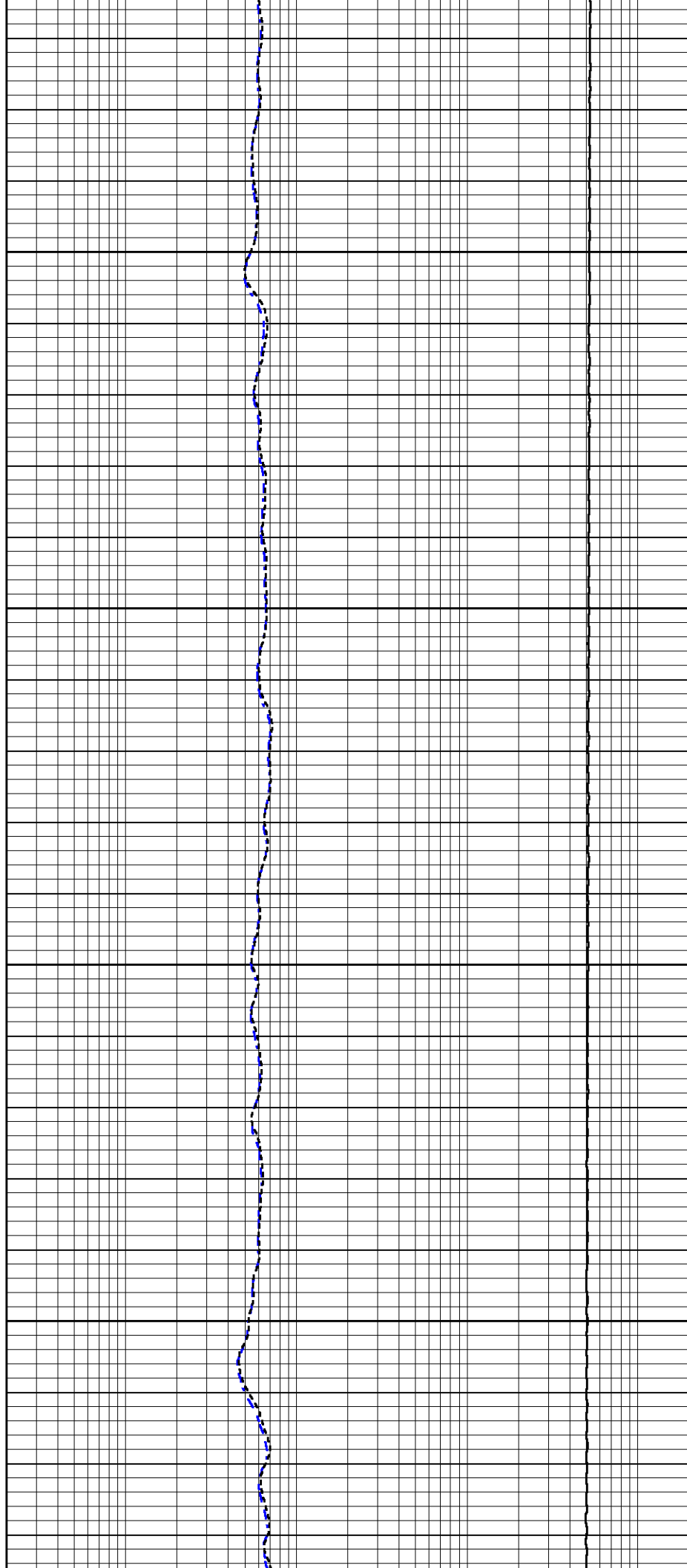


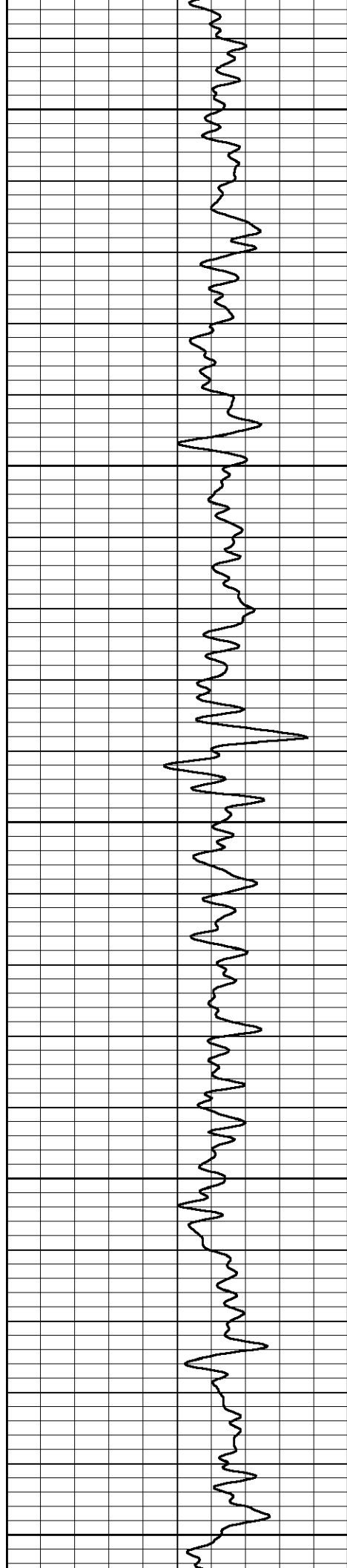
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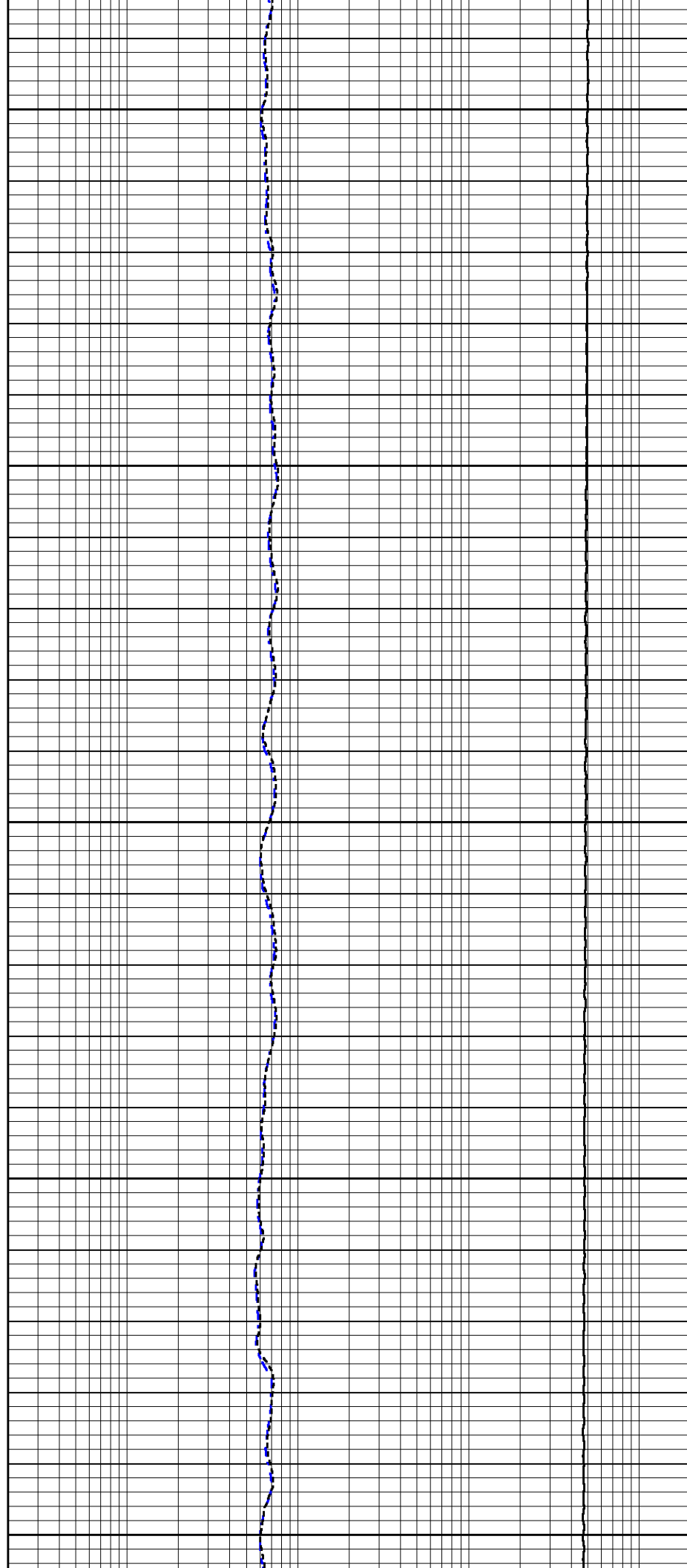
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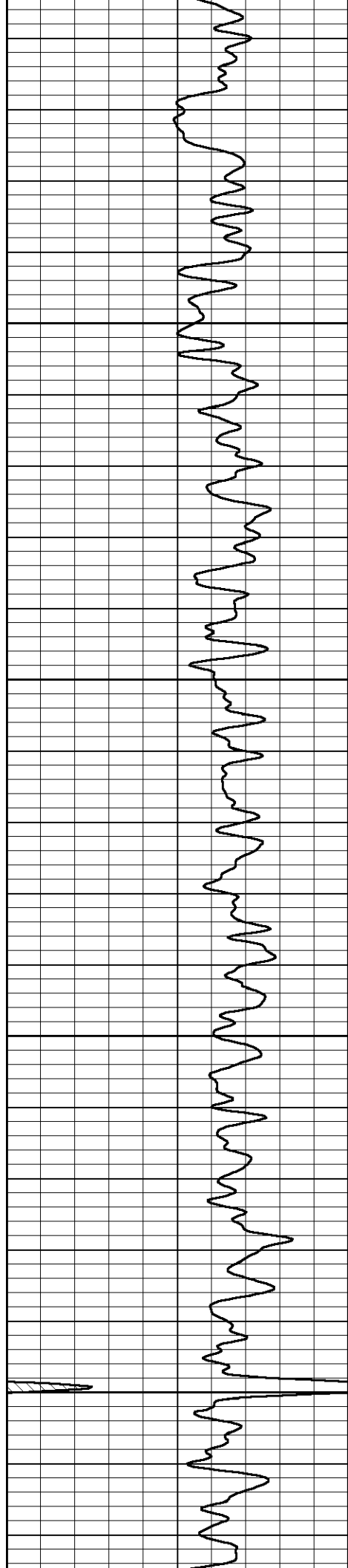
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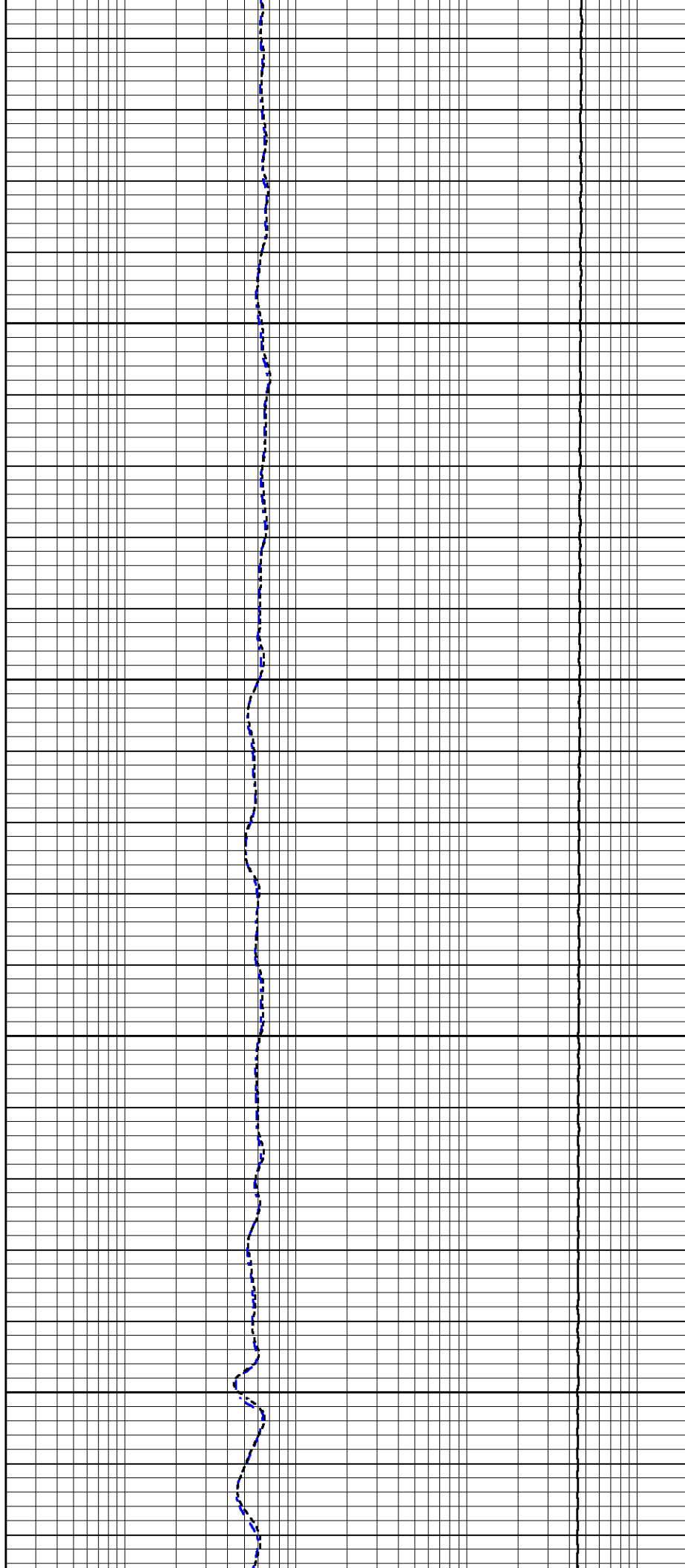


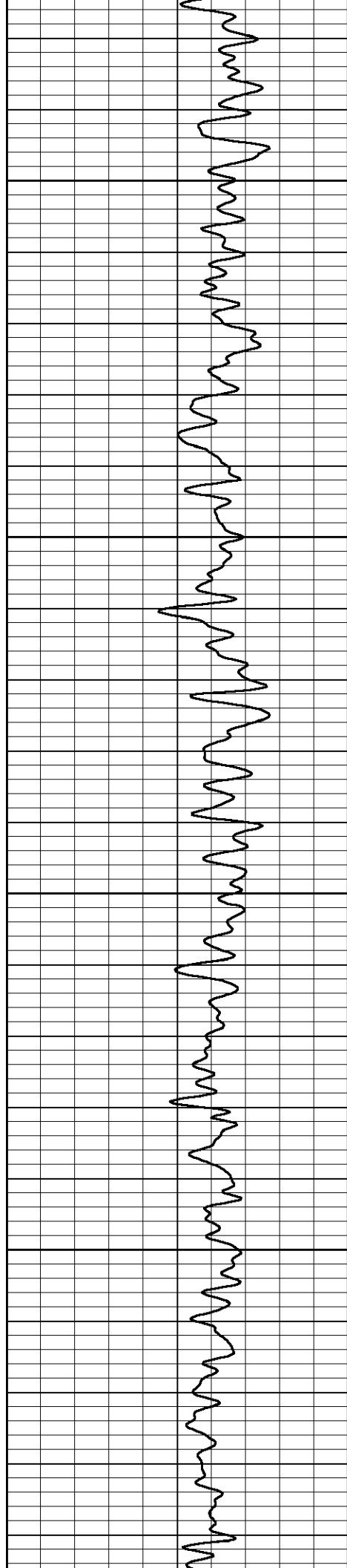
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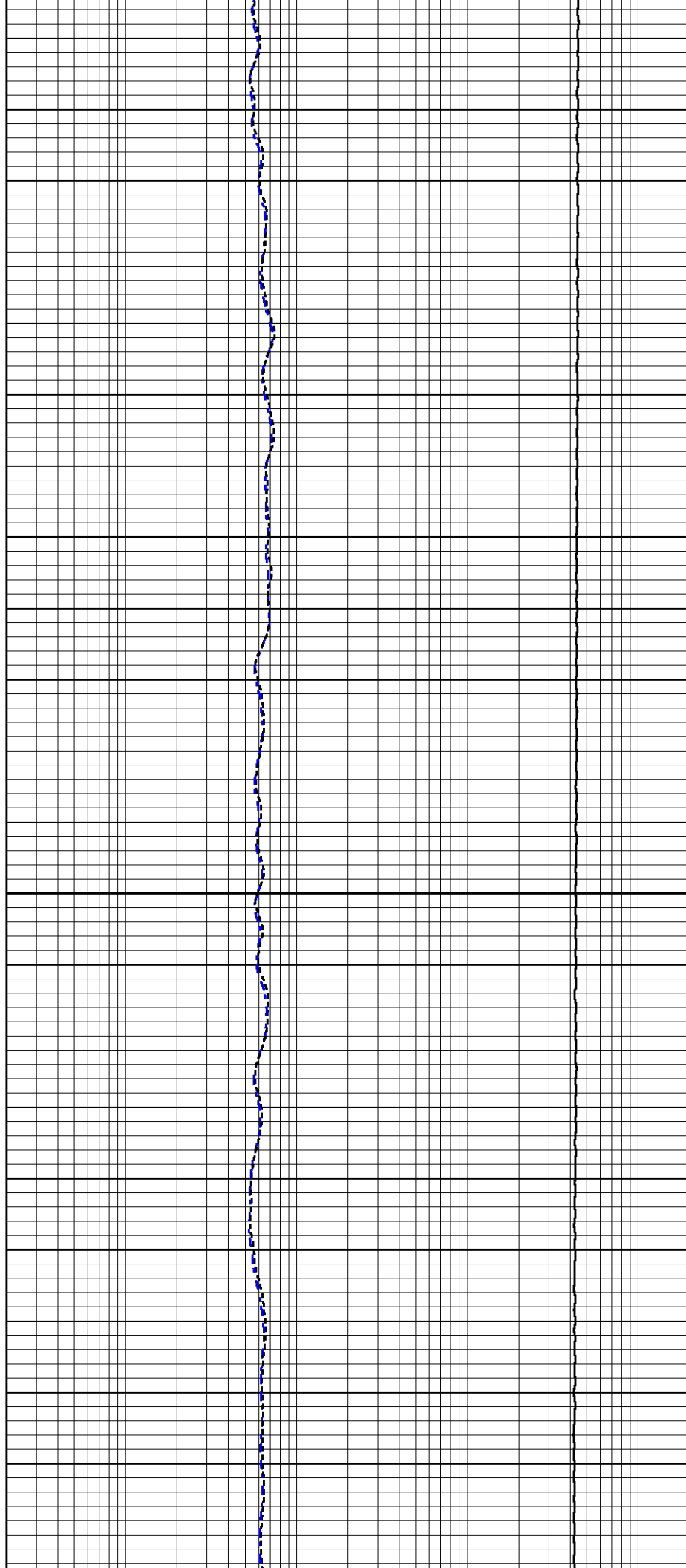


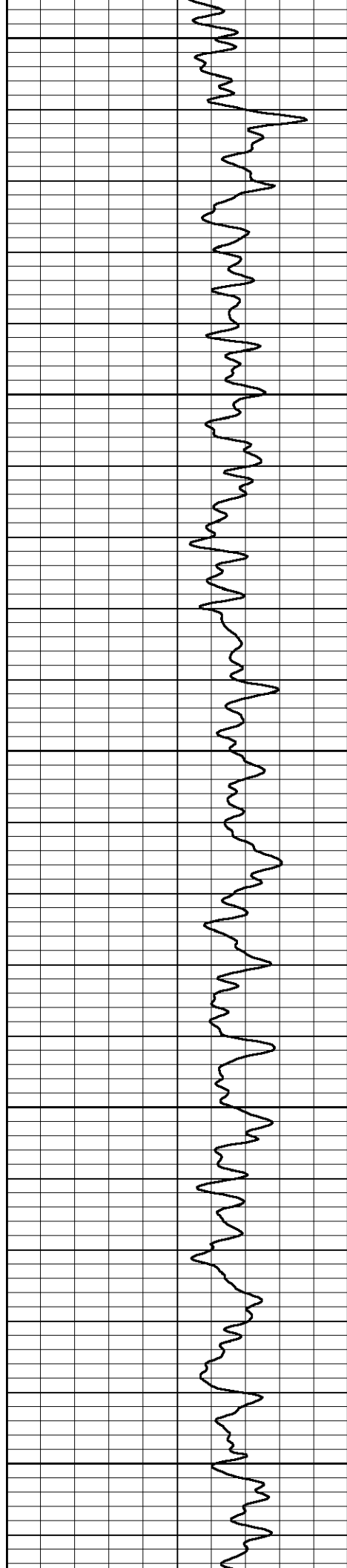
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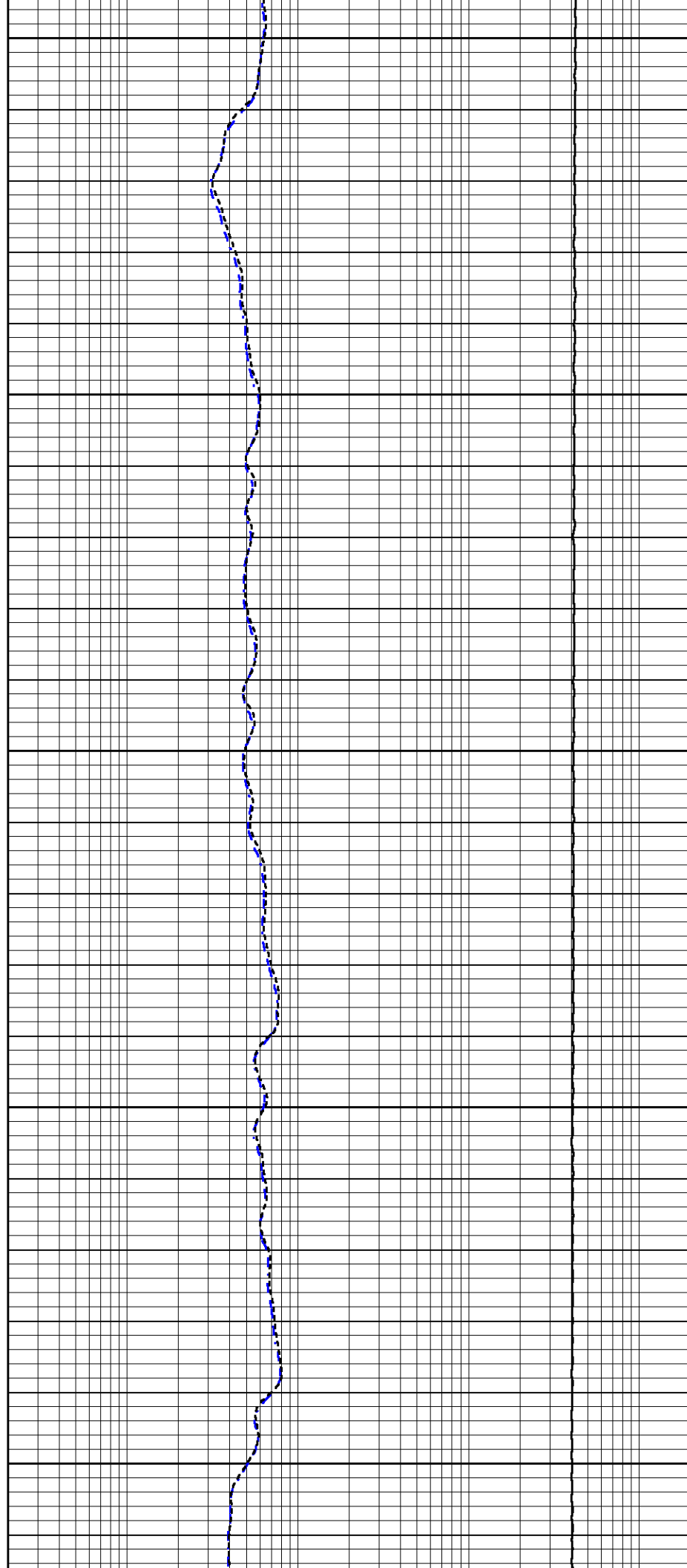
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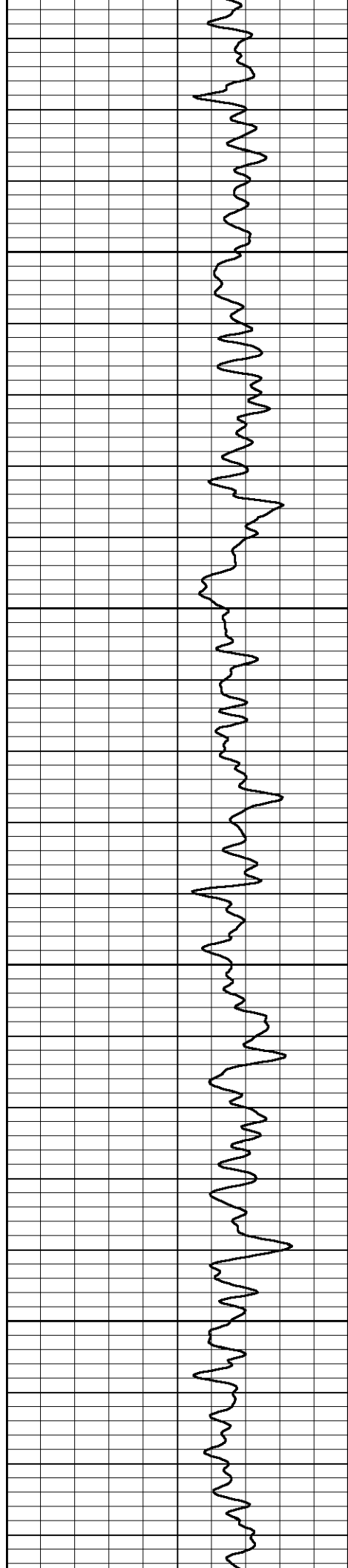
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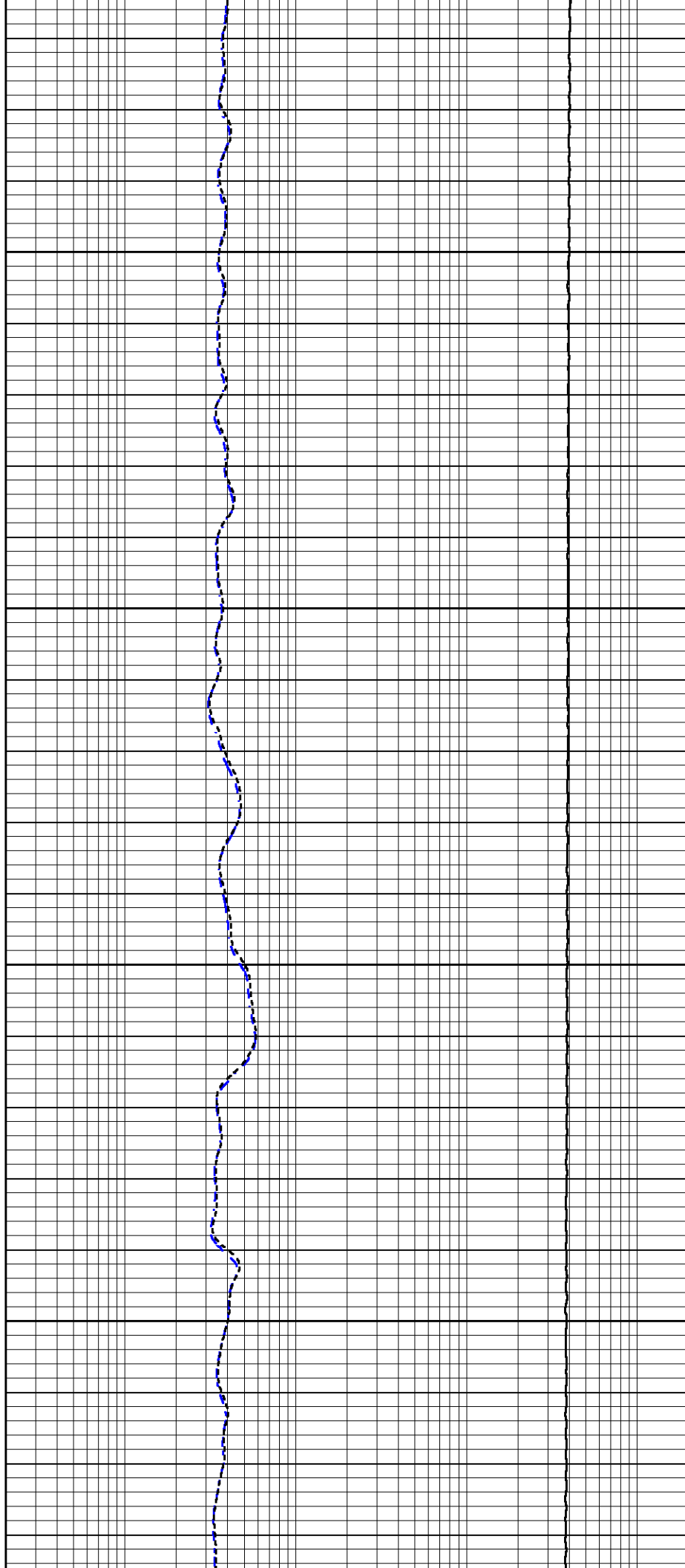


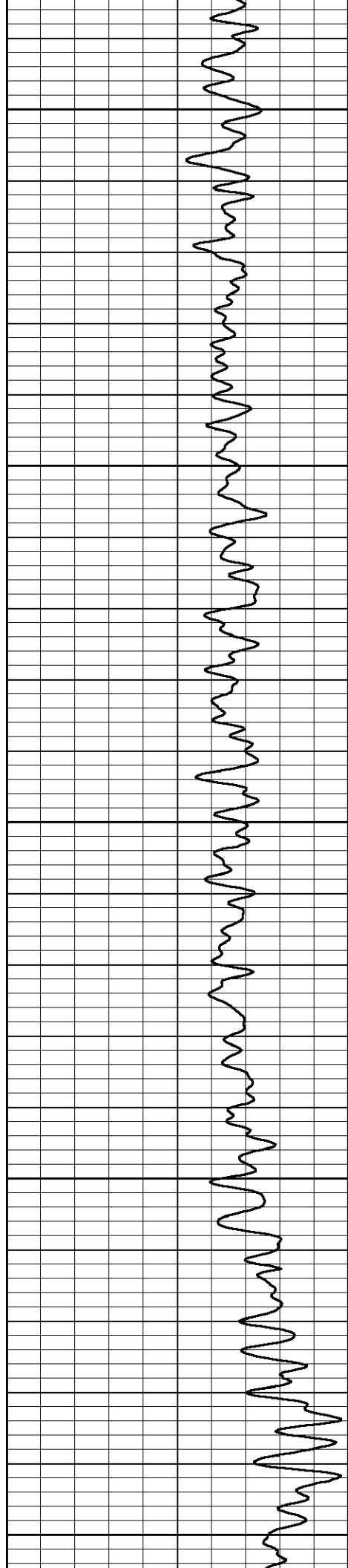
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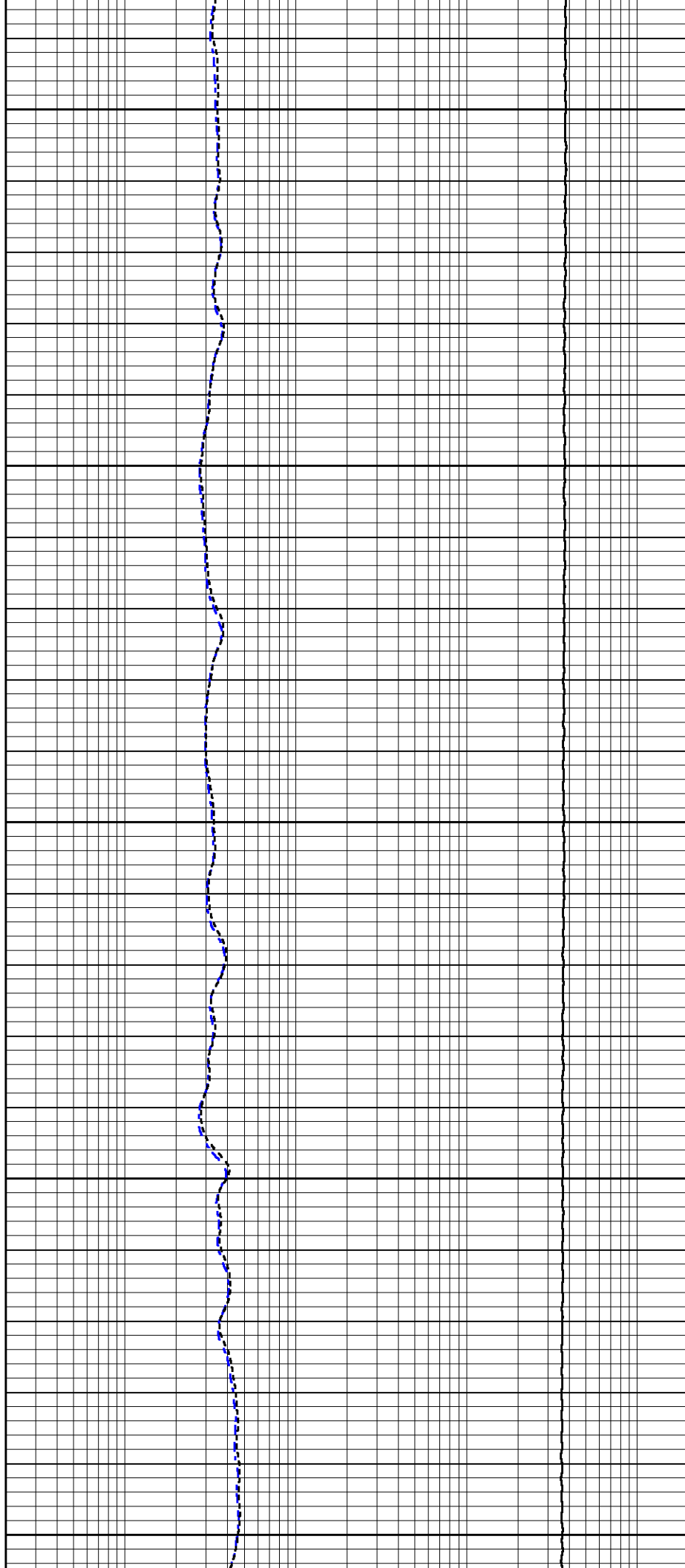
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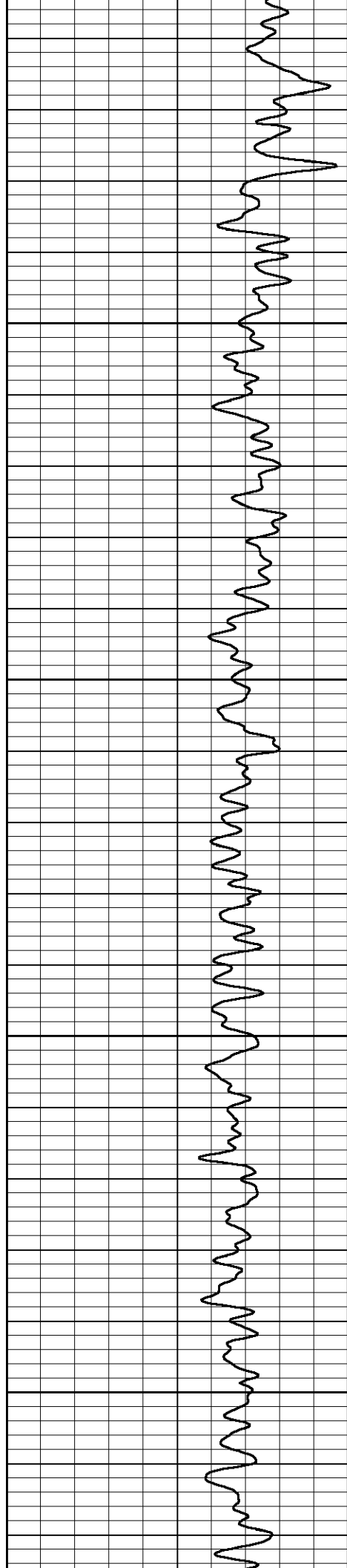
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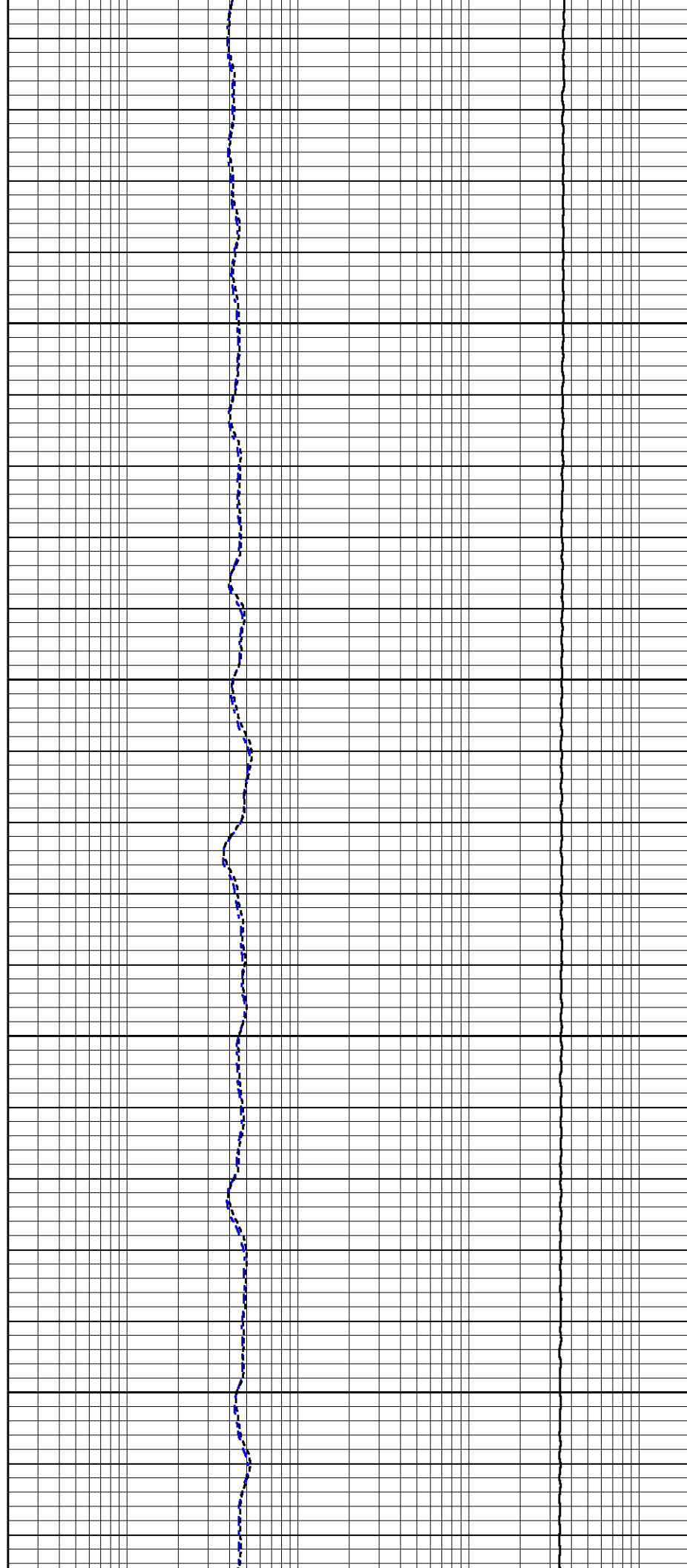


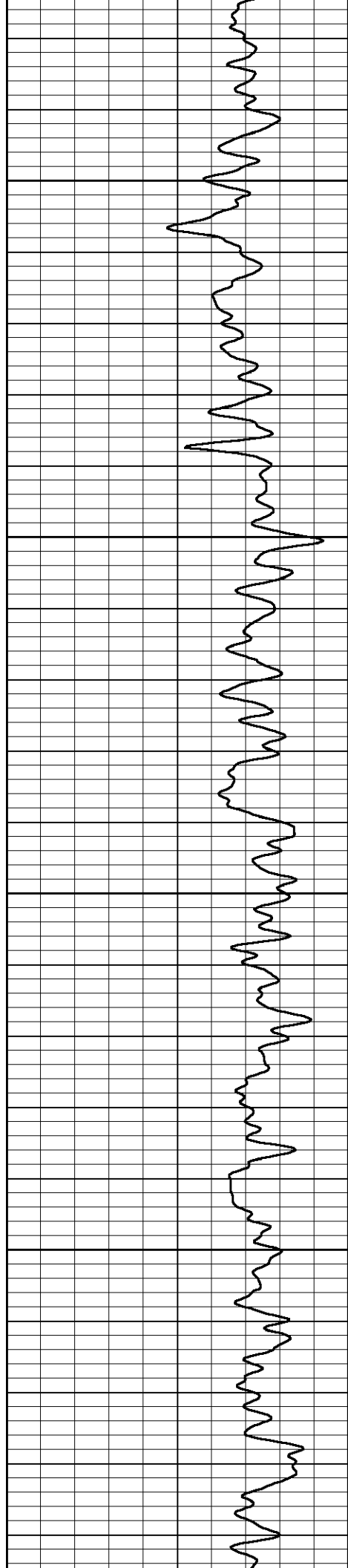
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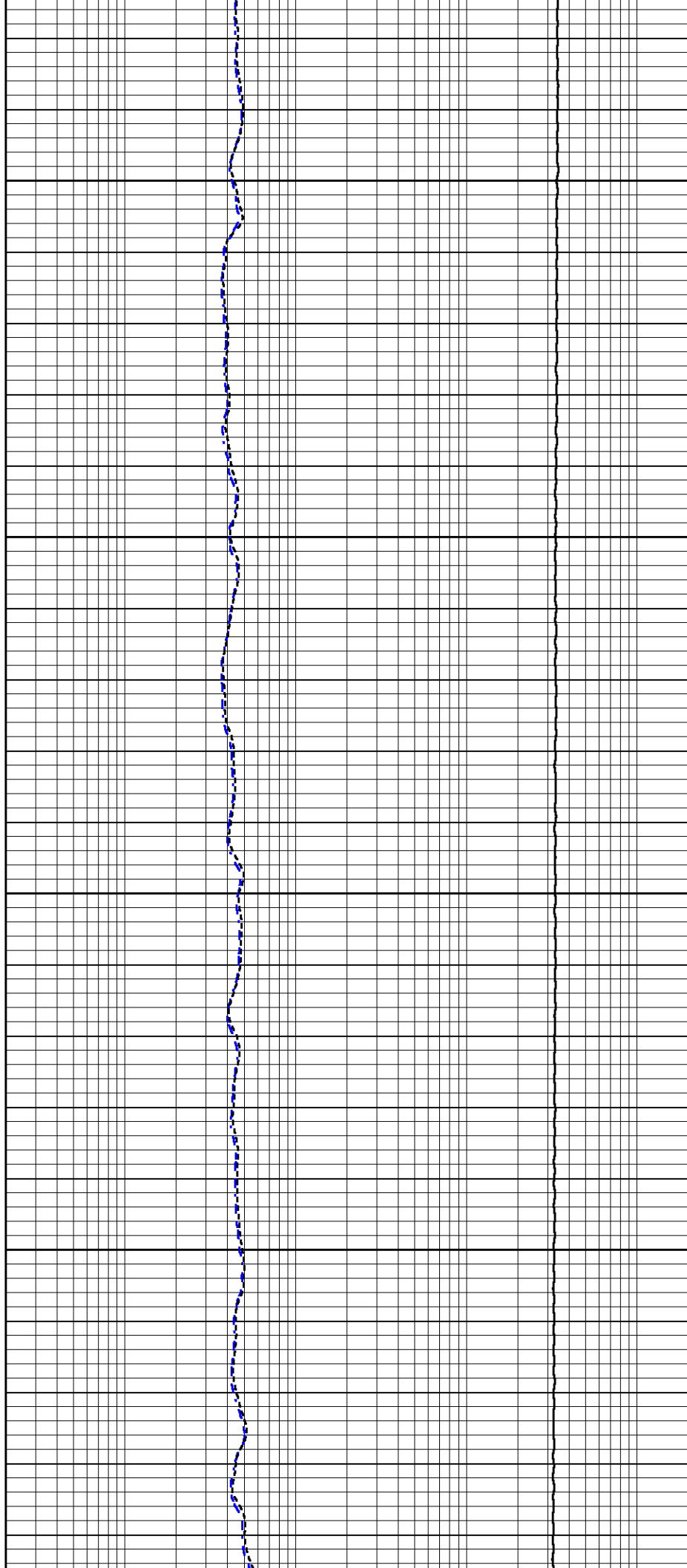


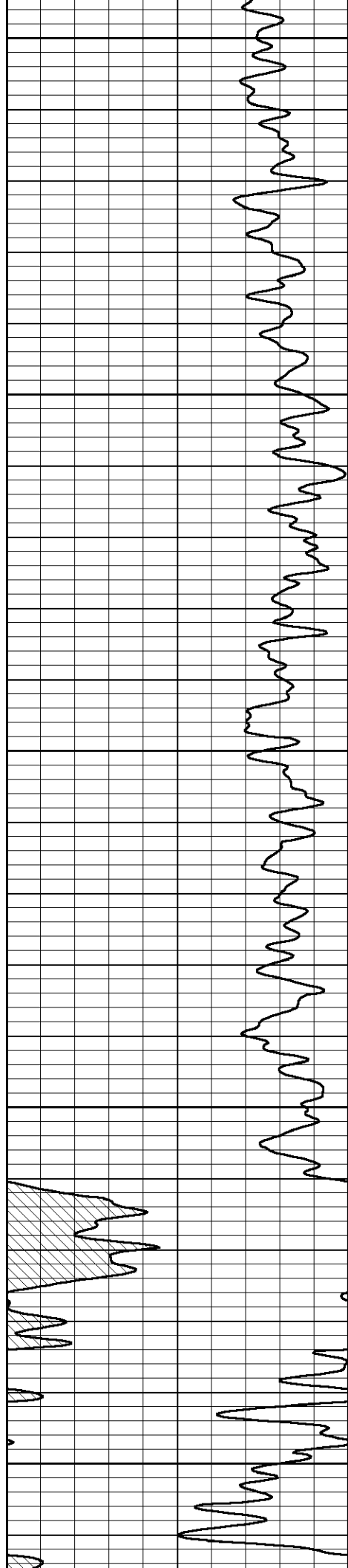
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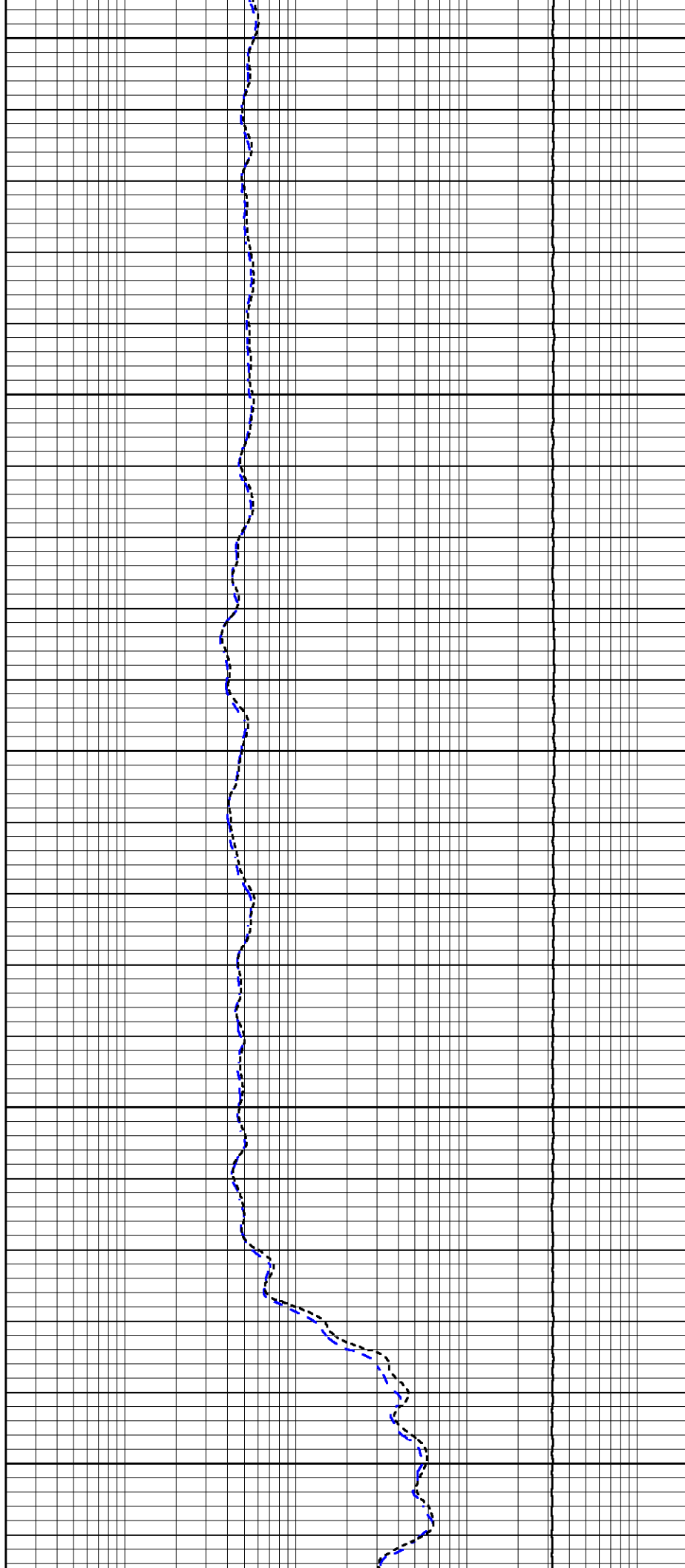
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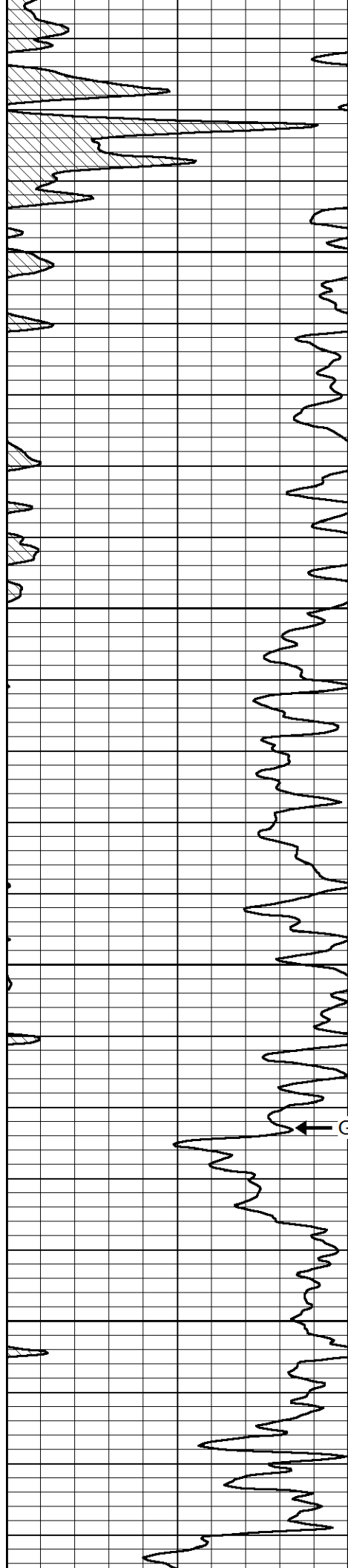
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7350

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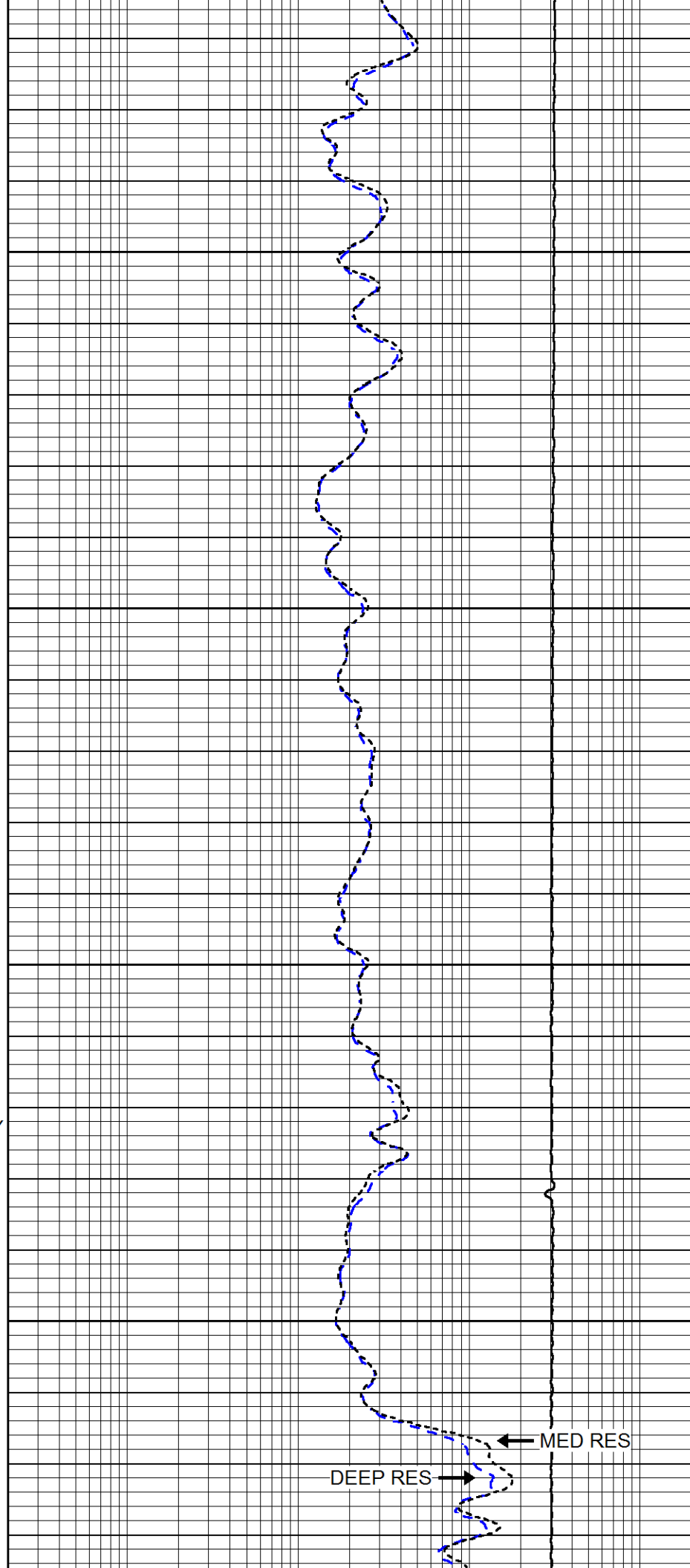
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7550

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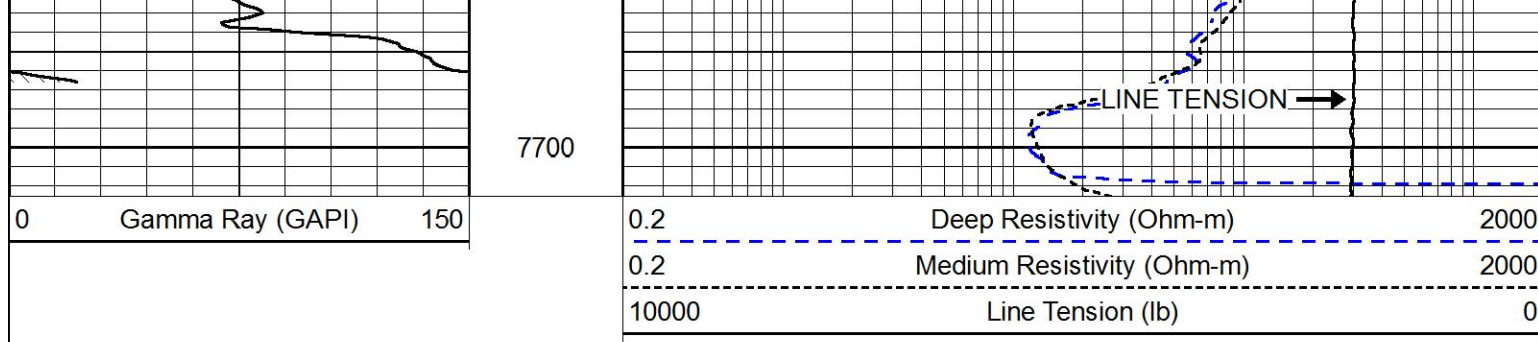
7650

↑ GAMMA RAY



← MED RES

DEEP RES →



Calibration Report

Database File petroshare_shook_3-10-4cdh.db
 Dataset Pathname DIL/pass2
 Dataset Creation Mon Aug 14 19:14:37 2017

Dual Induction Calibration Report

Serial-Model: PSI 91-M&W
 Calibration Performed: Thu Aug 10 08:41:25 2017

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		Gain	Offset
Deep	166.796	835.089	0.000	255.800	mmho/m	0.430	-32.000
Medium	142.009	1348.560	0.000	255.800	mmho/m	0.360	-31.000

Gamma Ray Calibration Report

Serial Number: 89
 Tool Model: M&W
 Calibration Performed: Wed Aug 02 00:29:15 2017

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
 Calibrator Reading: 1.0 cps

Sensitivity: 0.6000 GAPI/cps



Company PETROSHARE CORP
 Well SHOOK #3-10-4CDH
 Field WATTENBERG
 County ADAMS
 State COLORADO