



MIDWEST WIRELINE

DUAL INDUCTION LOG

Company: Murfin Drilling Company, Inc.
 Well: Dorsch B #1-9
 Field: Wildcat
 County: Cheyenne
 State: Kansas

Company: Murfin Drilling Company, Inc.
 Well: Dorsch B #1-9
 Field: Wildcat
 County: Cheyenne
 State: Kansas

Location: 990' FSL & 330' FWL
 API #: 15-023-21553-00-00
 Permanent Datum: SEC 9 TWP 3S RGE 37W
 Log Measured From: Kelly Bushing
 Drilling Measured From: Kelly Bushing
 Elevation: 3431'
 Other Services: CNL/CDL MEL/BHCS
 Elevation: 3436'
 K.B.: N/A
 D.F.: N/A
 G.L.: 3431'

Date	6/24/2021
Run Number	One
Depth Driller	5100'
Depth Logger	5100'
Bottom Logged Interval	5099'
Top Log Interval	0'
Casing Driller	8.625" @ 389'
Casing Logger	386'
Bit Size	7.875"
Type Fluid in Hole	Chemical
Salinity, ppm CL	1100
Density / Viscosity	9.1 52
pH / Fluid Loss	10.5 6.8
Source of Sample	FLOWLINE
Rm @ Meas. Temp	0.60 @ 80
Rmt @ Meas. Temp	0.45 @ 80
Rmc @ Meas. Temp	0.81 @ 80
Source of Rmf / Rmc	CHARTS
Rm @ BHT	0.38 @ 127
Operating Rig Time	6 Hours
Max Rec. Temp. F	127
Equipment Number	P-108
Location	HAYS
Recorded By	D. Schmidt
Witnessed By	Robert Hendrix

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

Bird City,
 East to 31 Rd, 3 North,
 East into

Log Measured From: Kelly Bushing 5 Ft. Above Permanent Datum

THANK YOU FOR USING MIDWEST WIRELINE LLC
 785-625-3858

Your Midwest Wireline Crew

Engineer: D. Schmidt
 Operator:
 Operator:
 Operator:

This Log Record Was Witnessed By

Primary Witness: Robert Hendrix
 Secondary Witness:
 Secondary Witness:
 Secondary Witness:

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.58		GR-M&W (89-M&W)	3.00	3.50	50.00
CNLSC CNSSC	37.48 36.73		CNT-M&W (tk10-MW)	5.50	3.50	100.00
LSD DCAL SSD	28.43 28.42 27.93		CDL-M&W (915-956)	8.50	4.00	250.00
MCAL MI MN	19.83 19.83 19.83		ML-PSI STKBL ML (PSI-02) Stackable Microlog Tools	7.58	4.00	65.00
RLL3F RLL3	15.80 15.80					
CILD	8.00		DIL-PSI HIGH TEMP (959-1032)	18.50	3.50	220.00
CILM	4.70					
SP	0.20					

Dataset: murfin_dorsch b 1-9.db: field/well/stkml/pass4.7
 Total length: 43.08 ft
 Total weight: 685.00 lb
 O.D.: 4.00 in

Log Variables

DatabaseC:\ProgramData\Warrior\Data\murfin_dorsch b 1-9.db
 Dataset field/well/stkml/pass4.7/_vars_

Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	127	5.5	0	1	2	2.71
NPORSEL	PERFS	SNDERR mmho/m	SNDERRM mmho/m	SPSHIFT mV	SRFTEMP degF	SZCOR	TDEPTH ft
Limestone	0	0	0	355	80	Off	5100

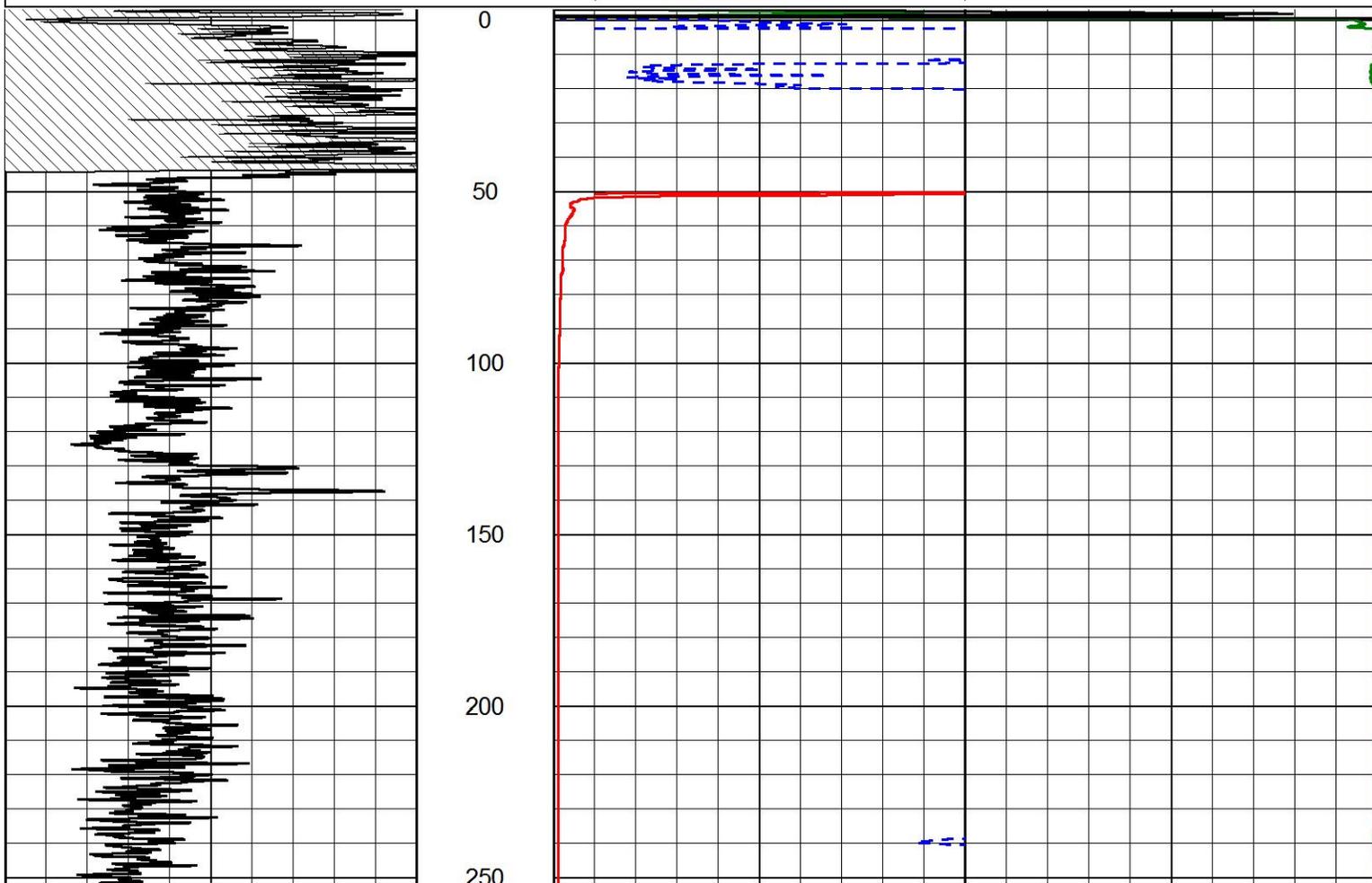


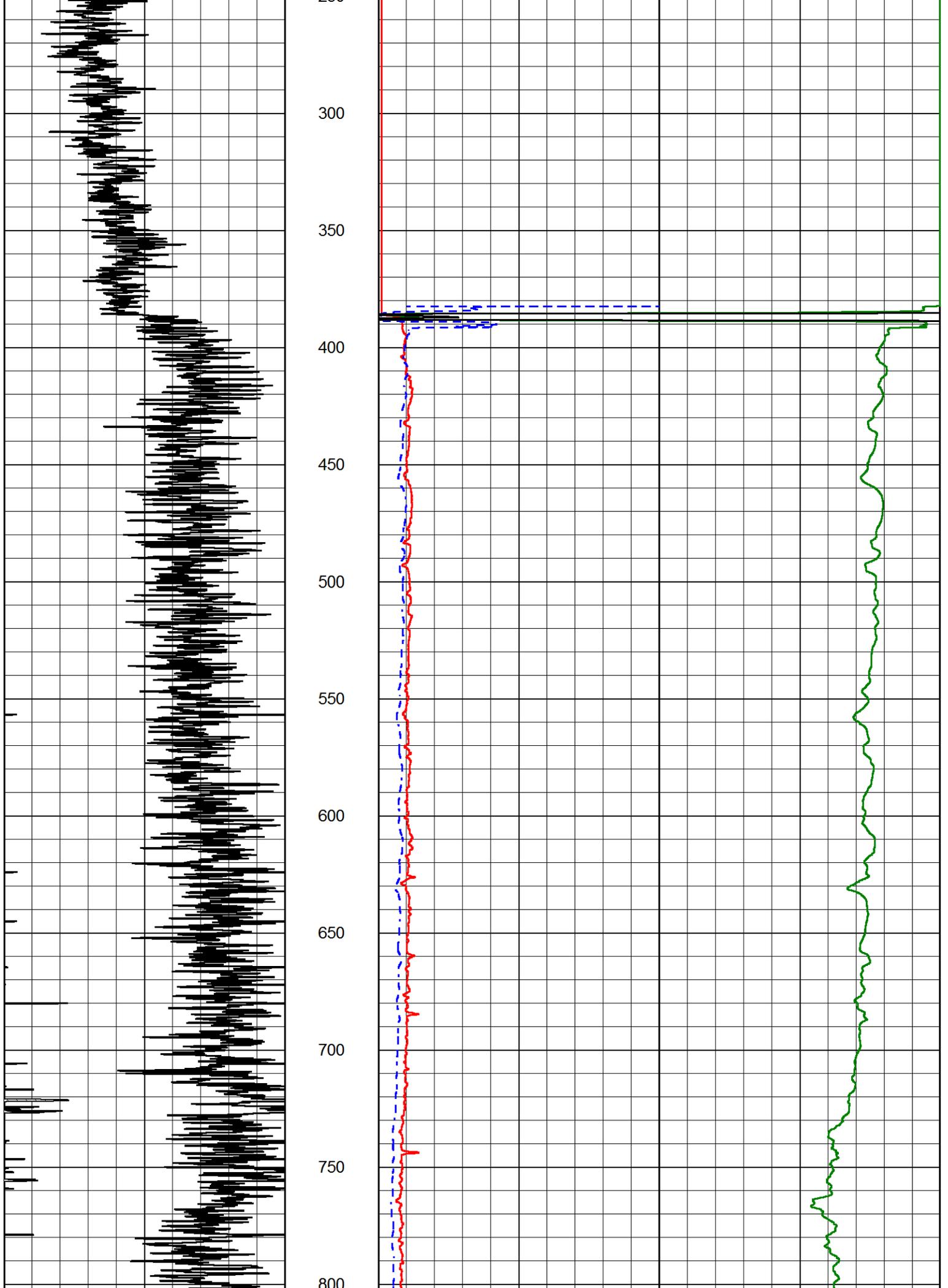
2" SCALE RESISTIVITY

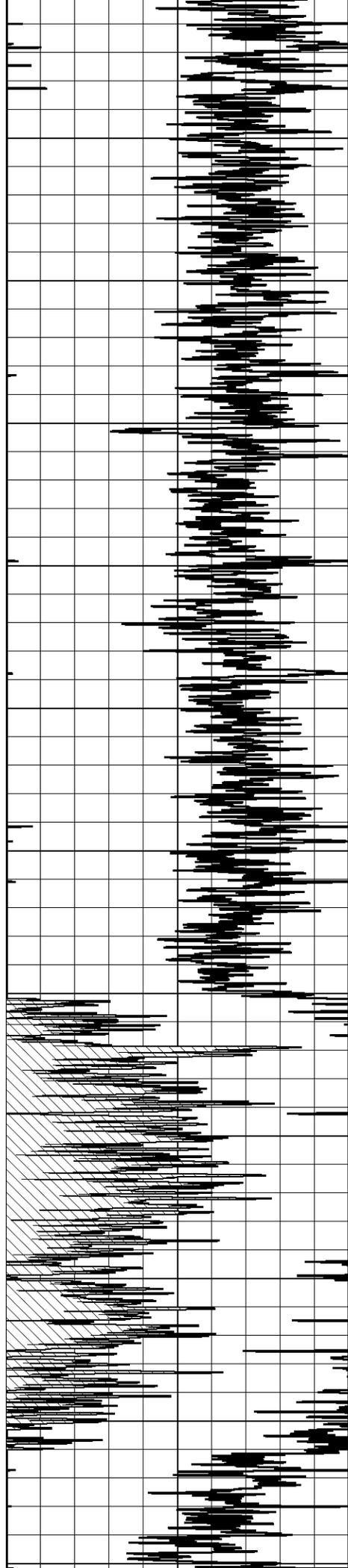
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 Presentation Format dil2in
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 Charted by Depth in Feet scaled 1:600

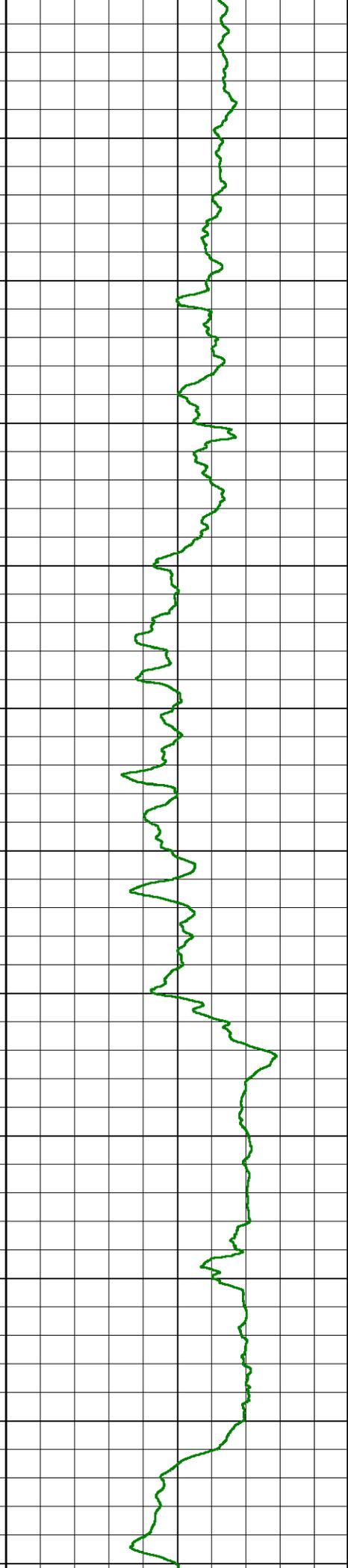
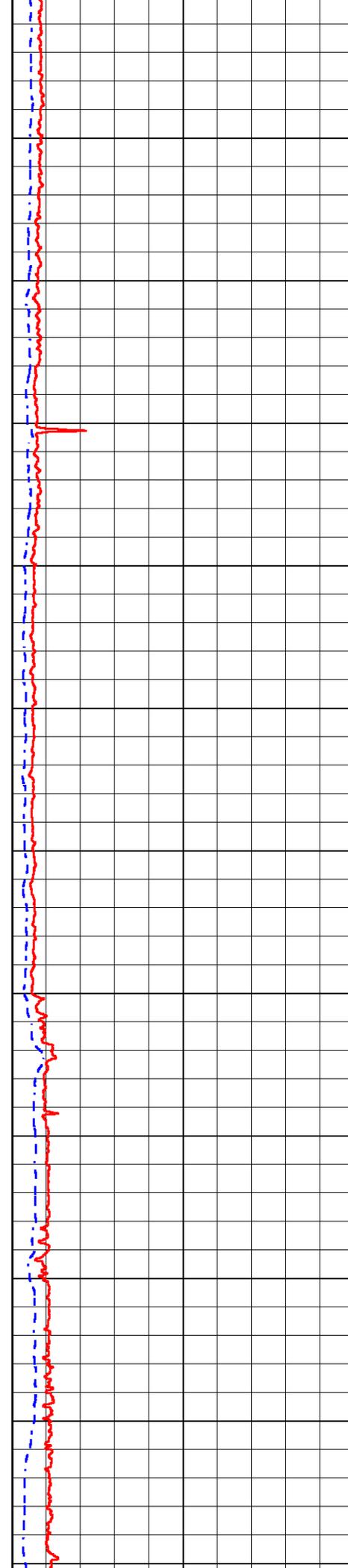
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50	RLL3 (Ohm-m)	200	50	RILD (Ohm-m)	200

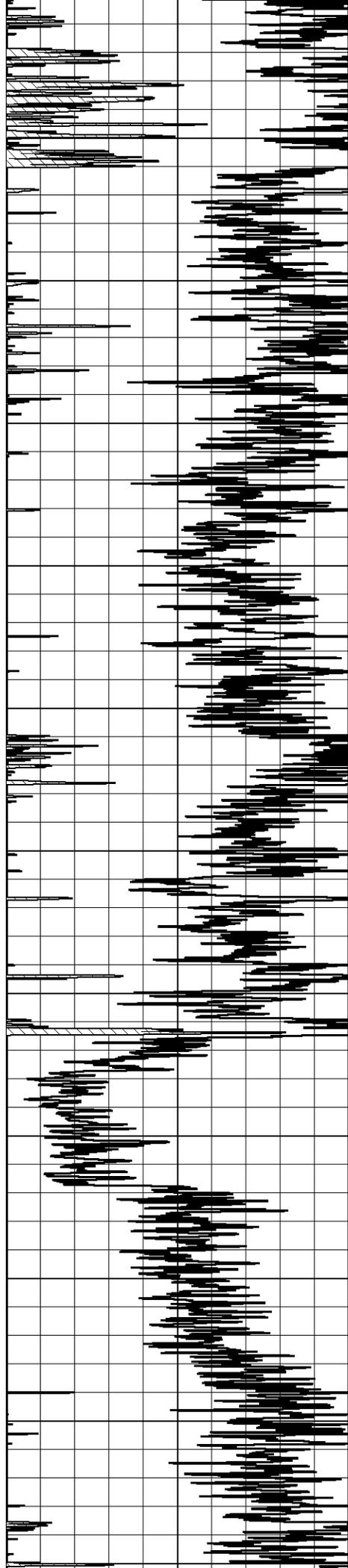




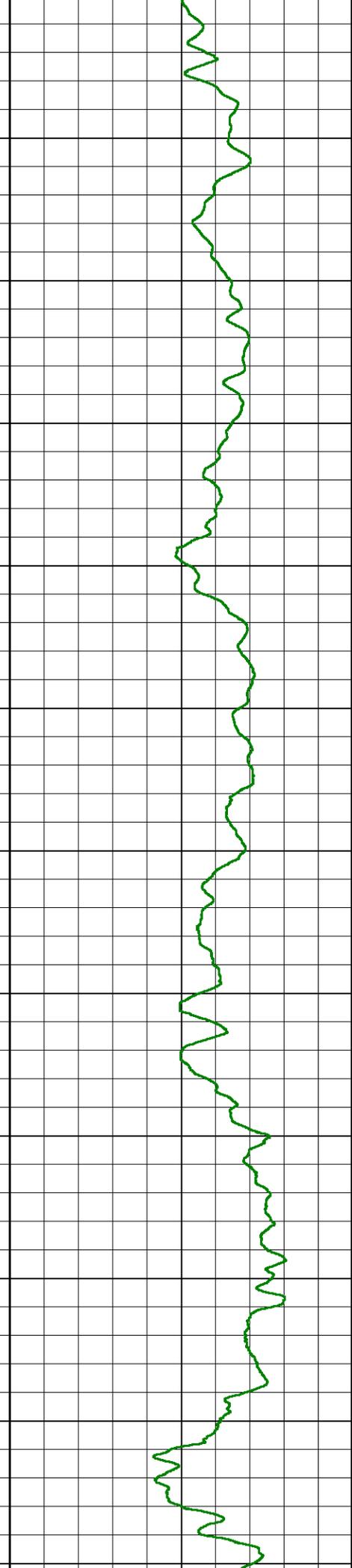
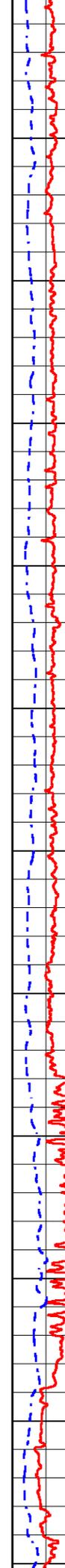


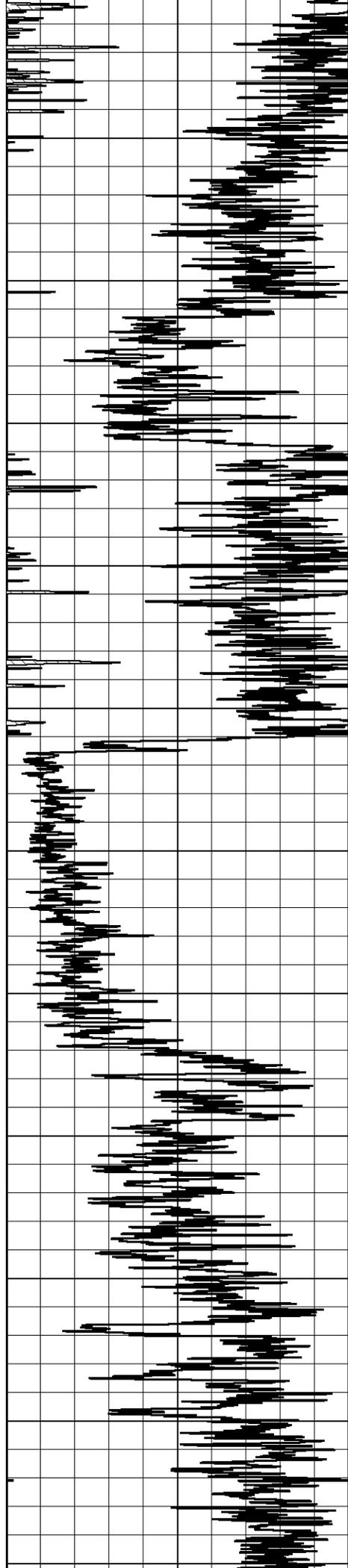
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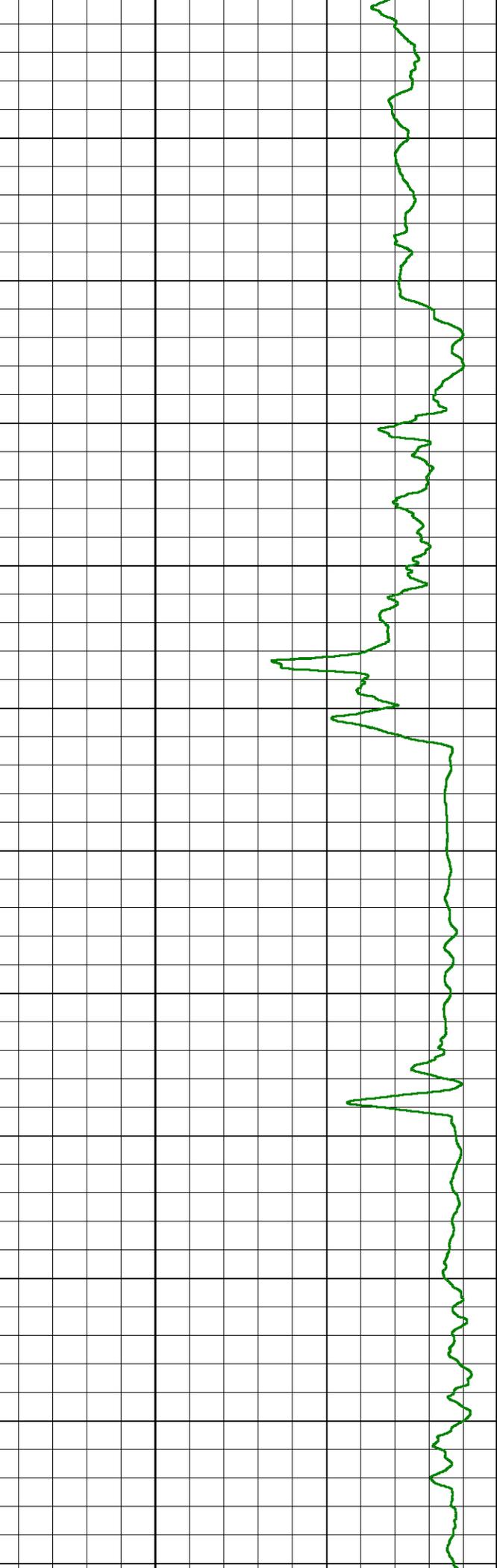
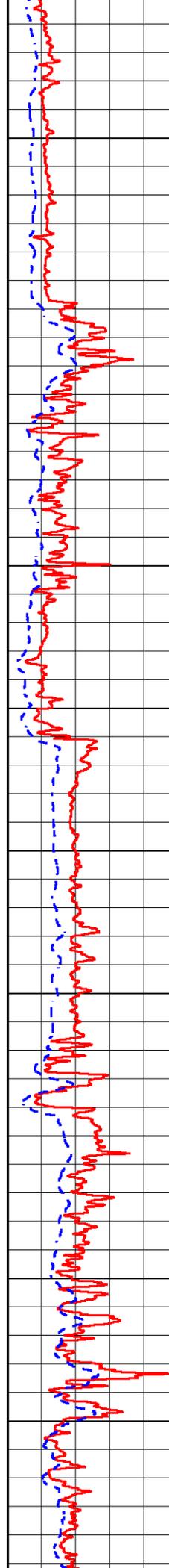


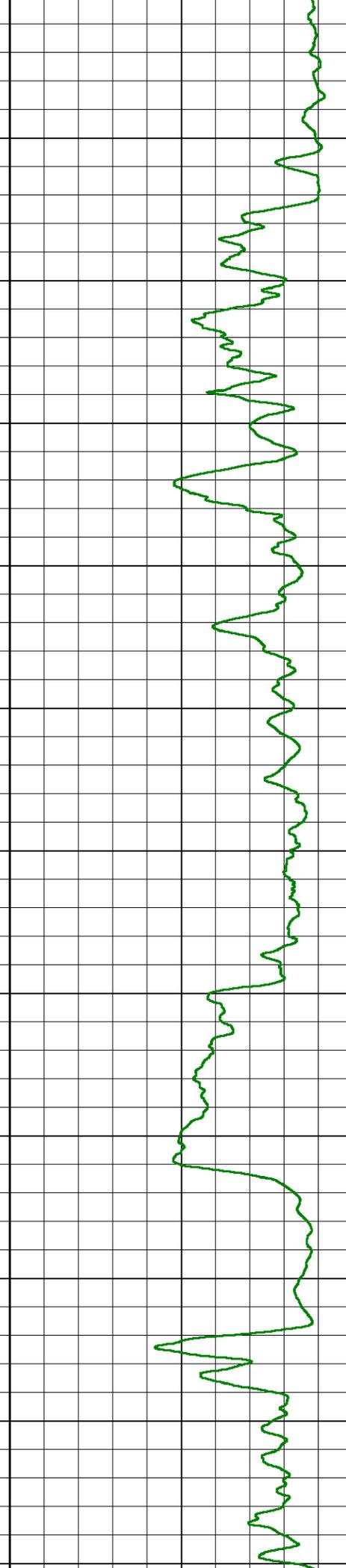
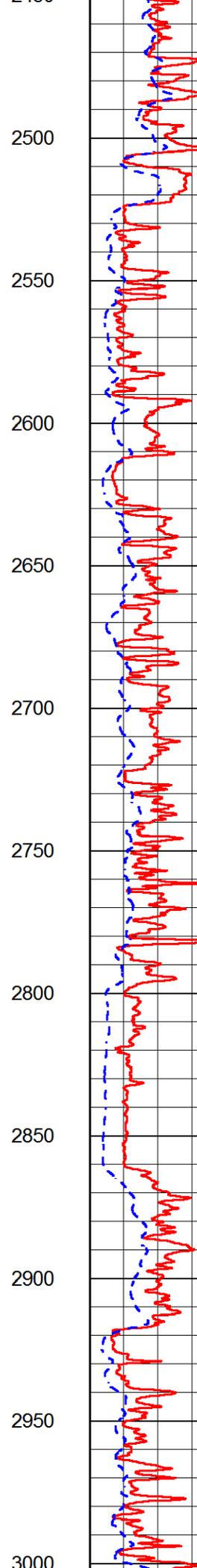
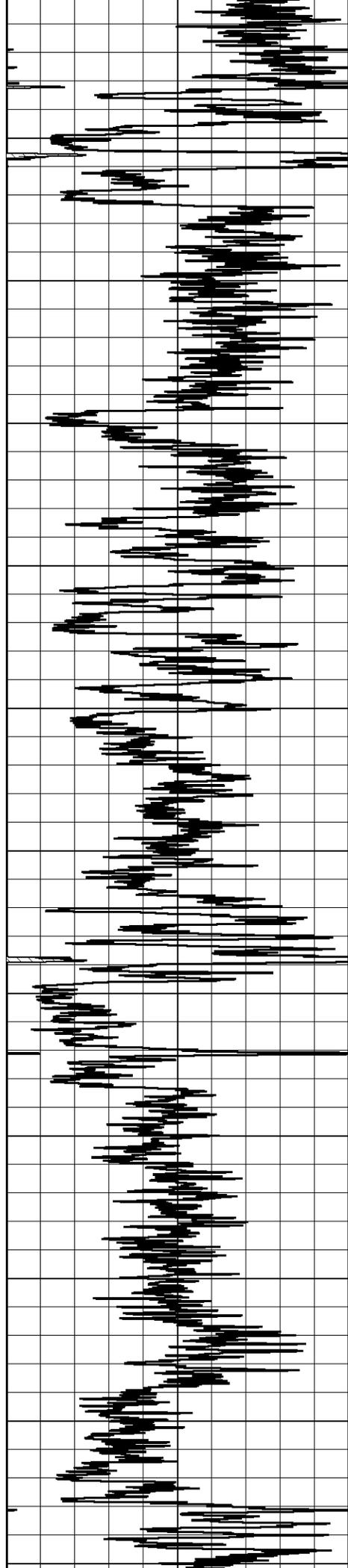
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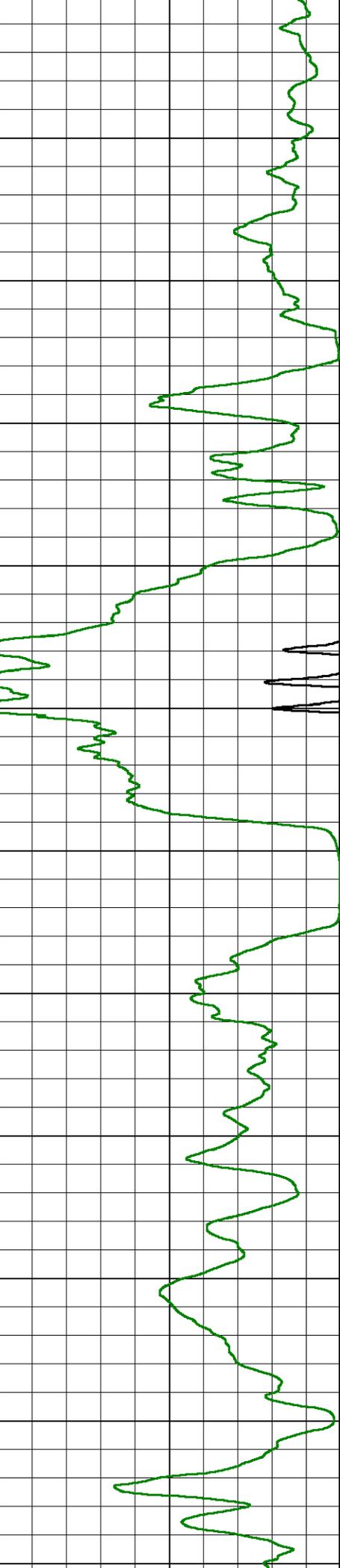
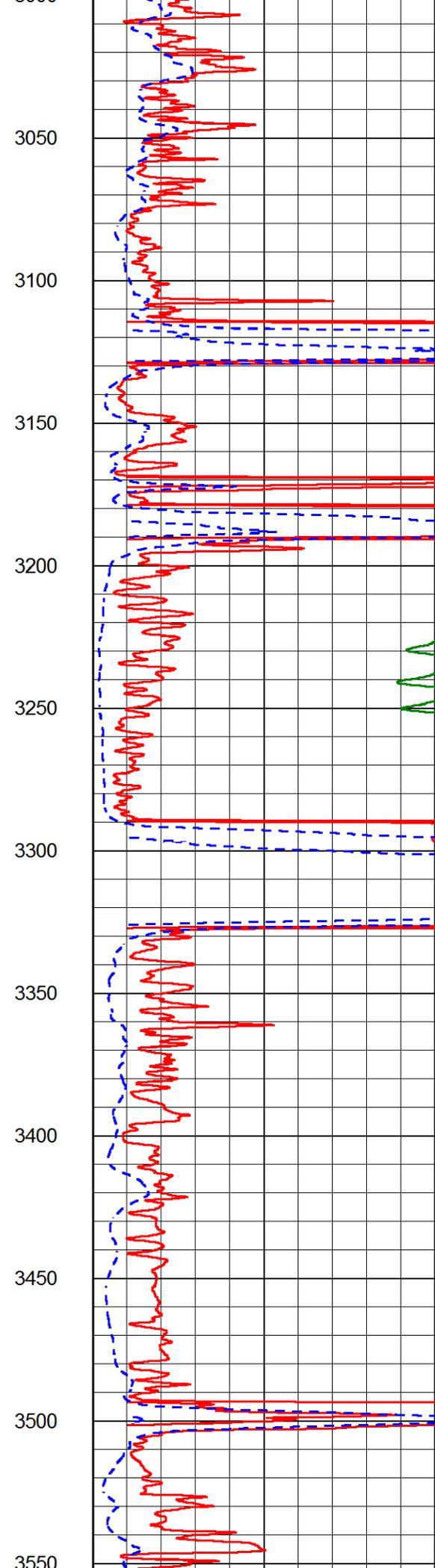
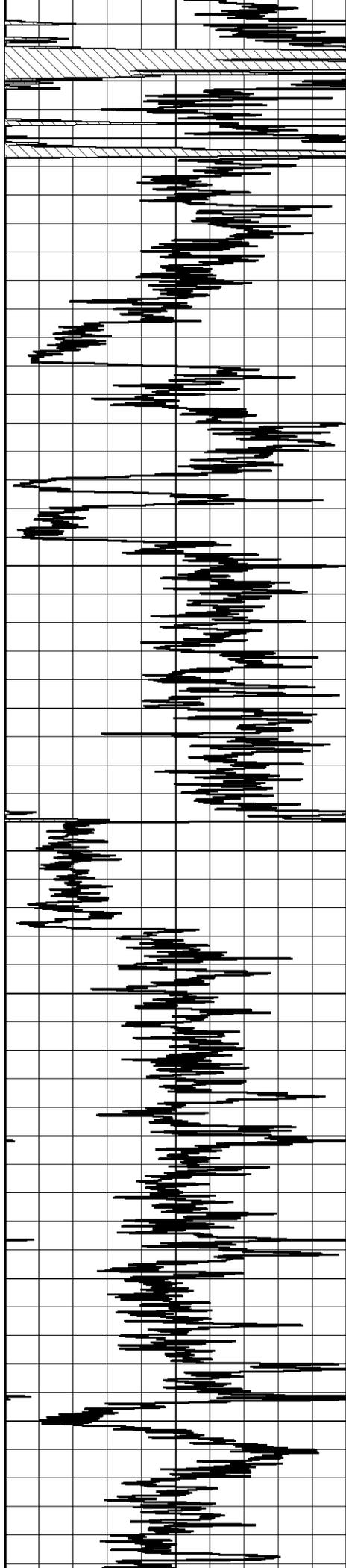


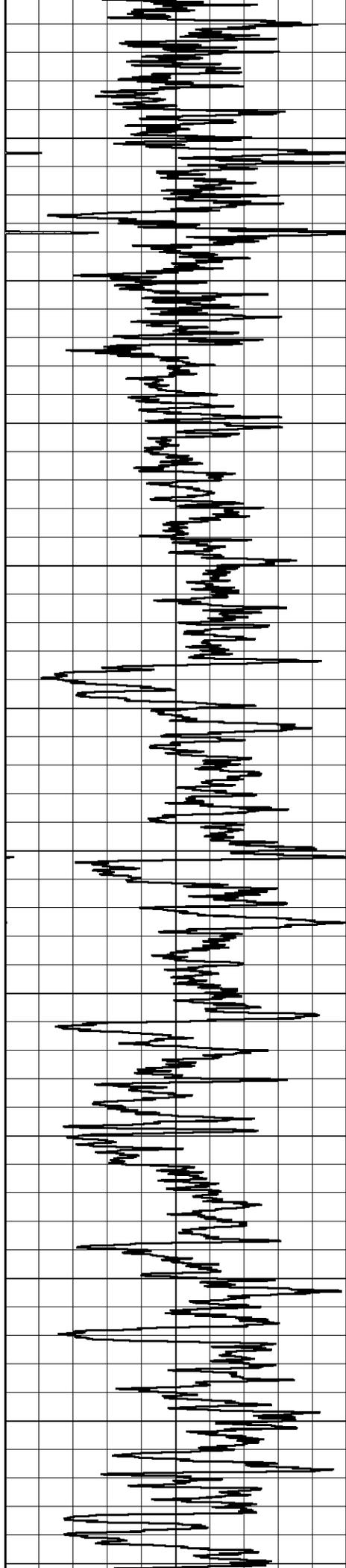


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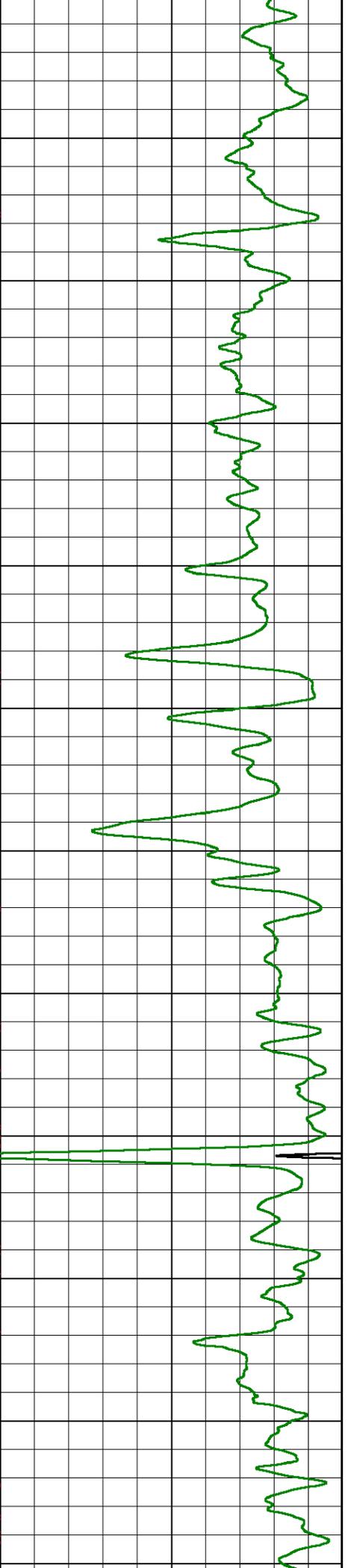
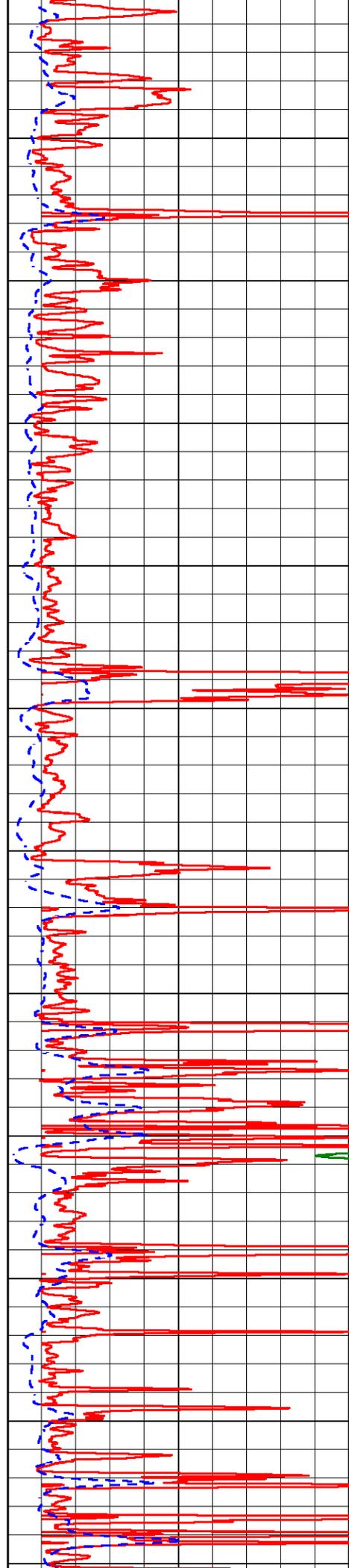


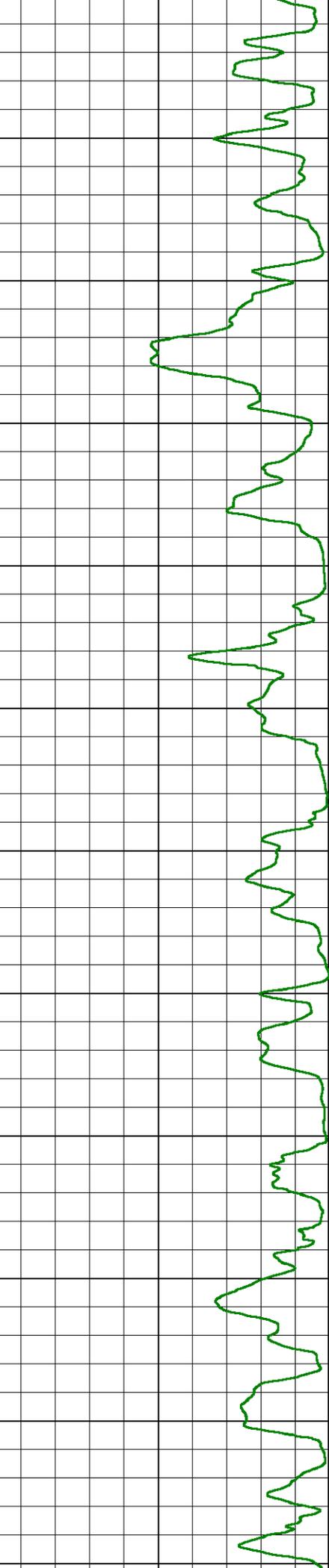
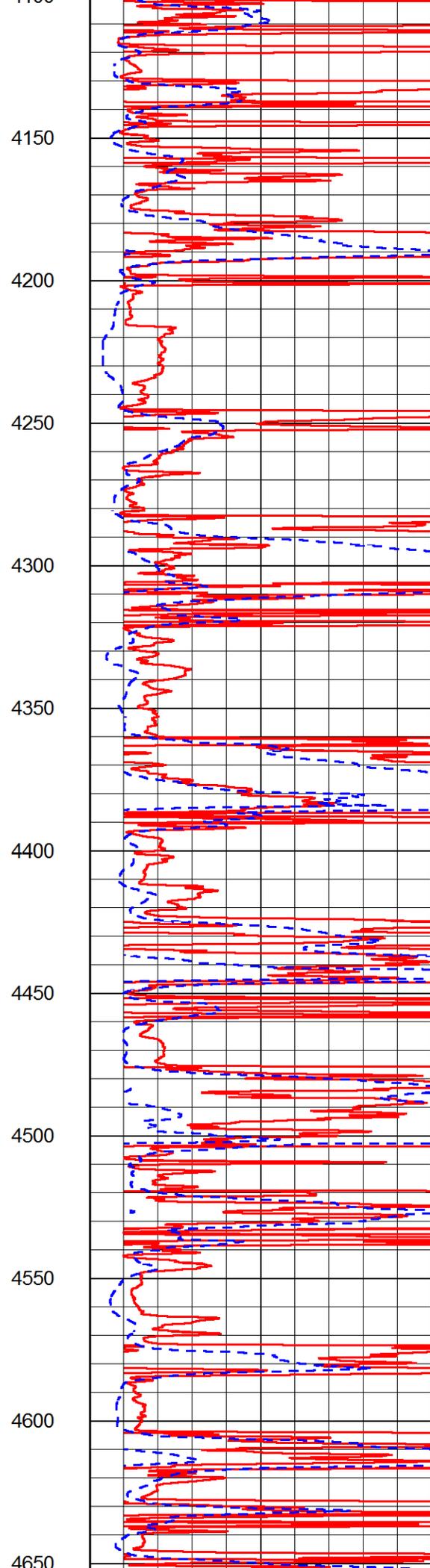
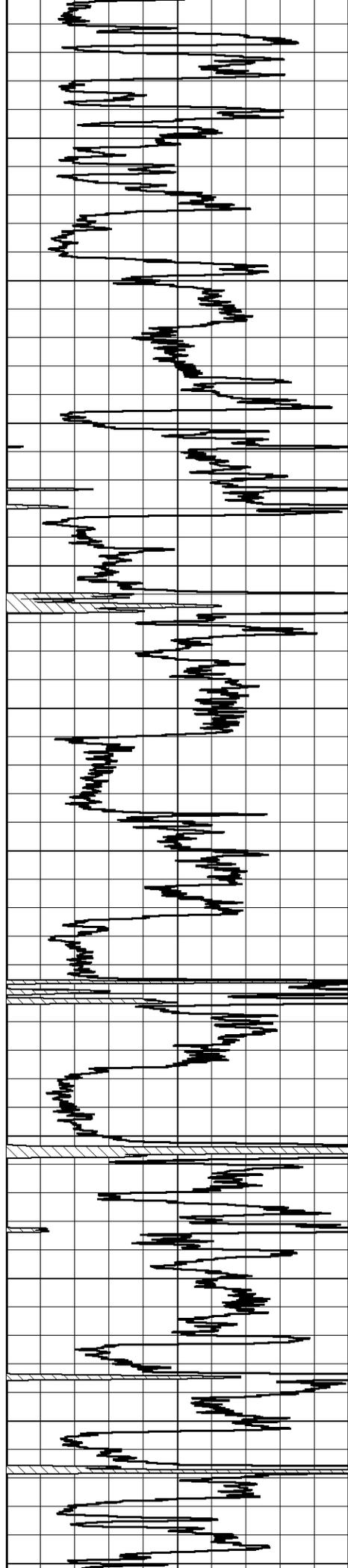






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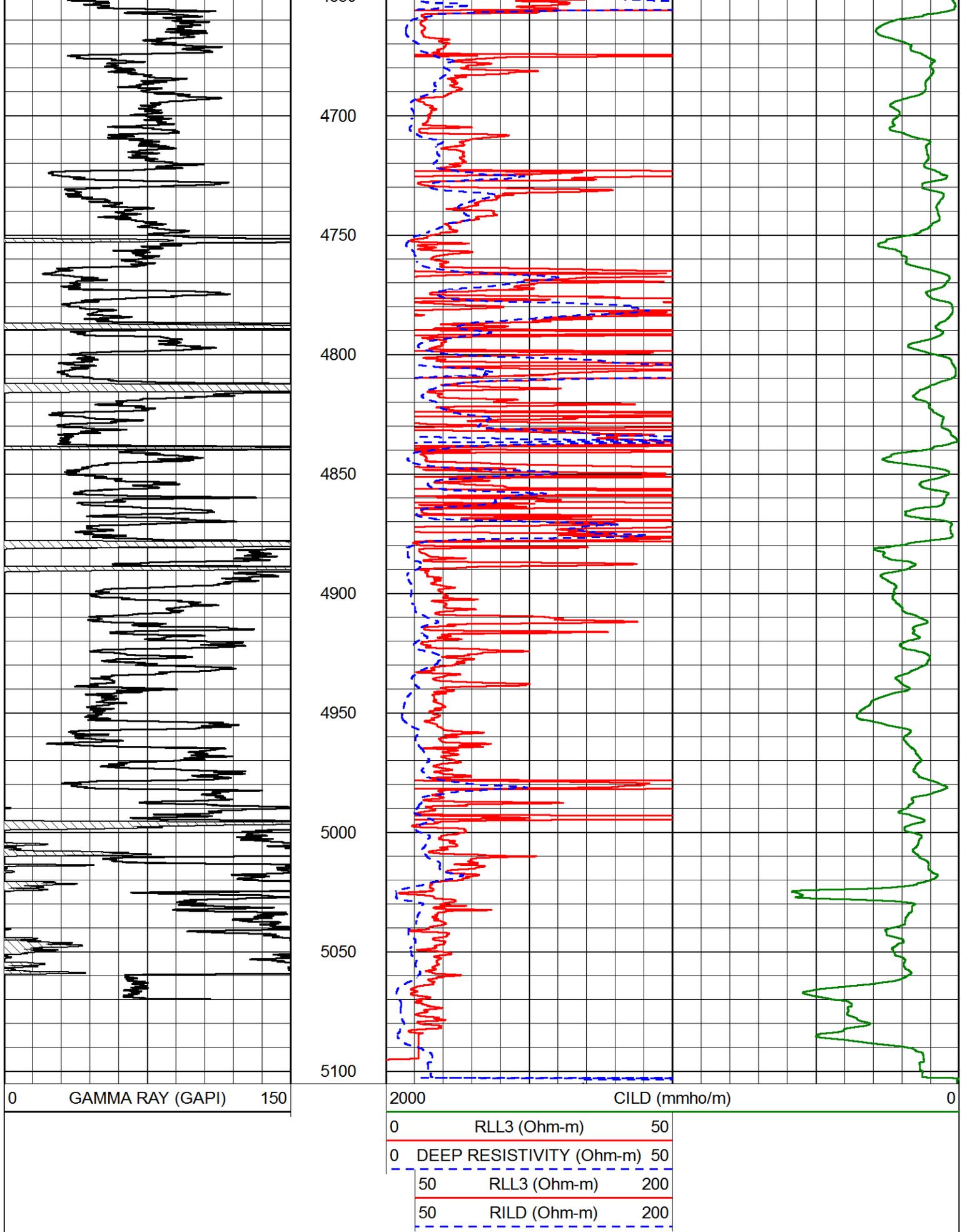
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DETAIL SECTION

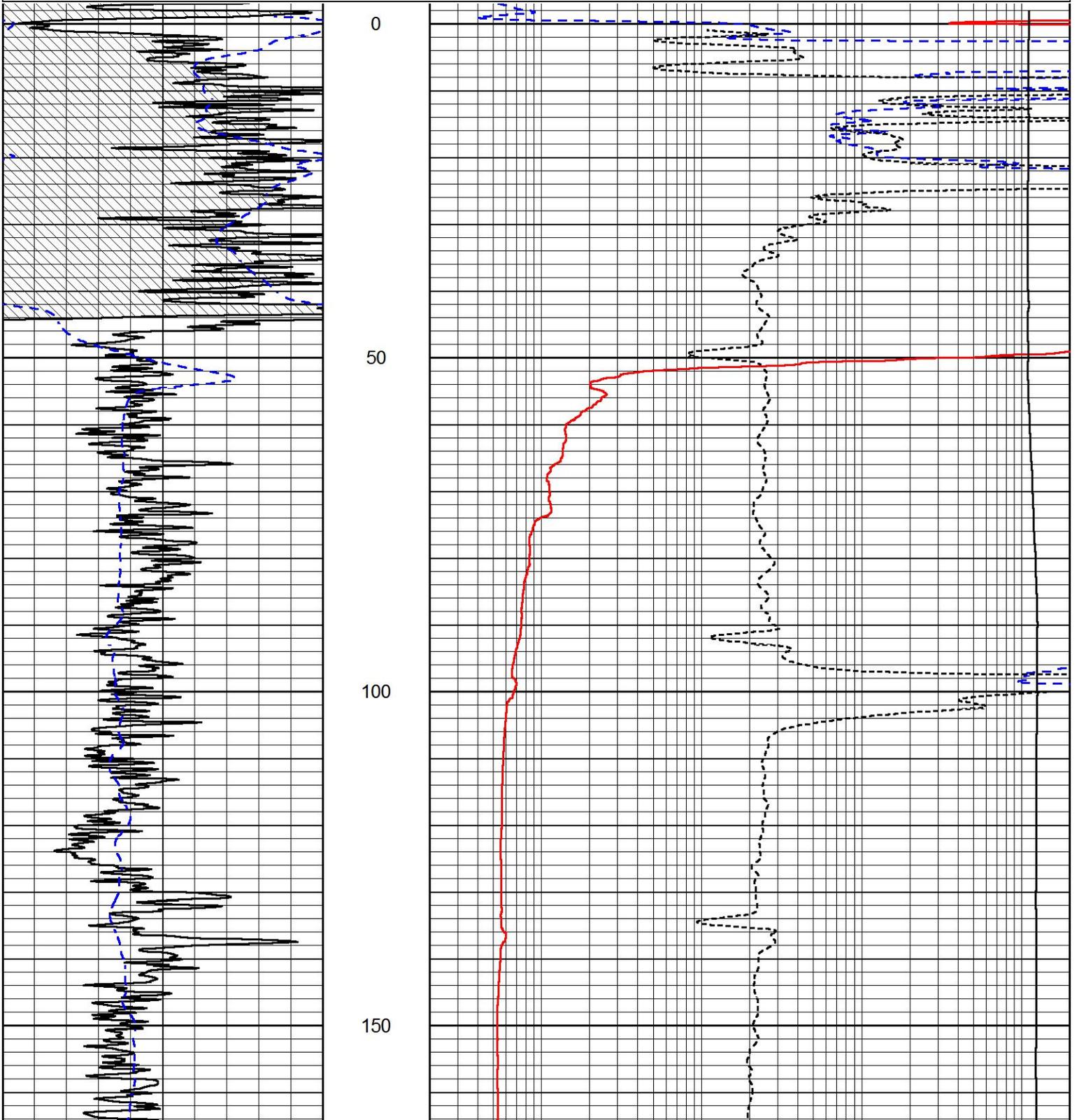


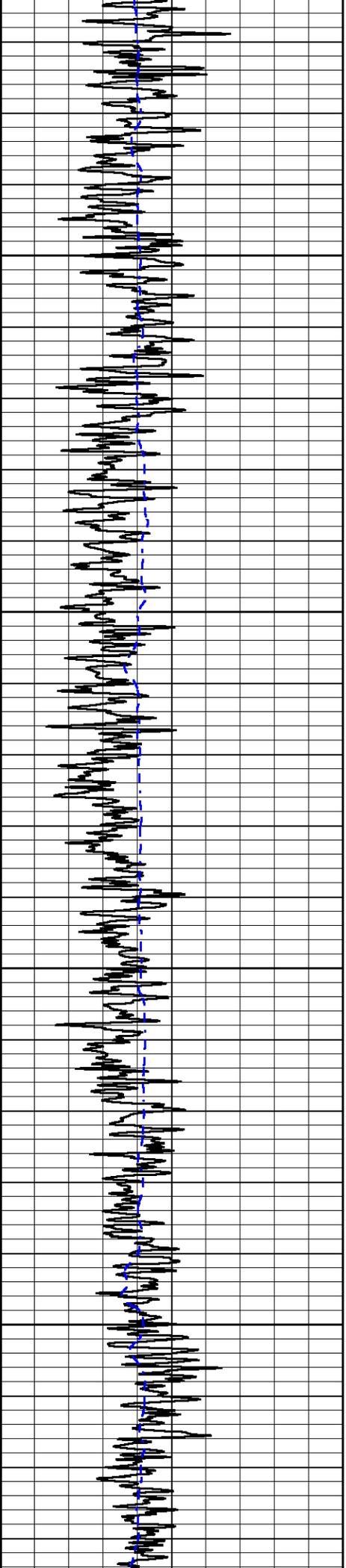


MAIN PASS

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 Presentation Format dil
 Dataset Creation Fri Jun 25 00:52:28 2021
 Charted by Depth in Feet scaled 1:240

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-200	SP (mV)	0	0.2	MEDIUM RESISTIVITY (Ohm-m)	2000
			0.2	RLL3 (Ohm-m)	2000
			15000	LINE TENSION (lb)	0



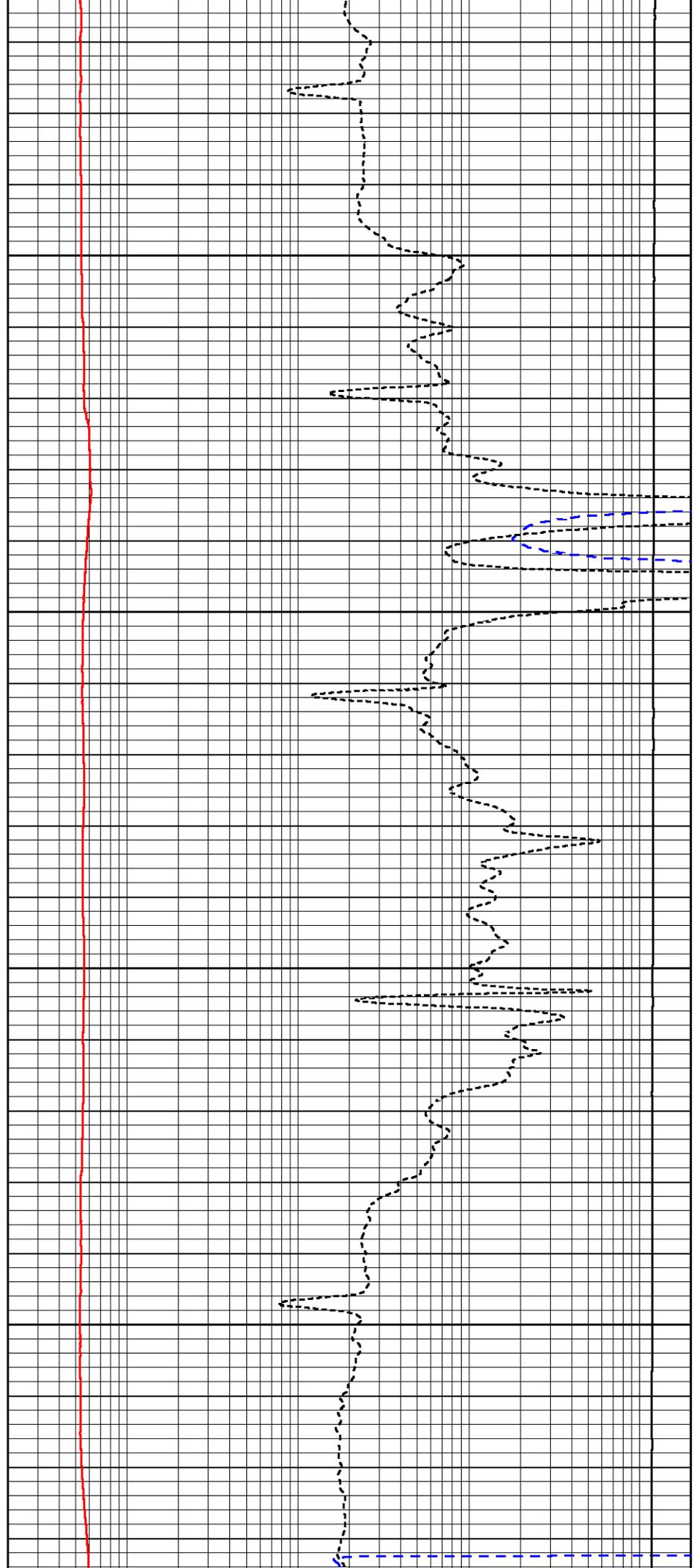


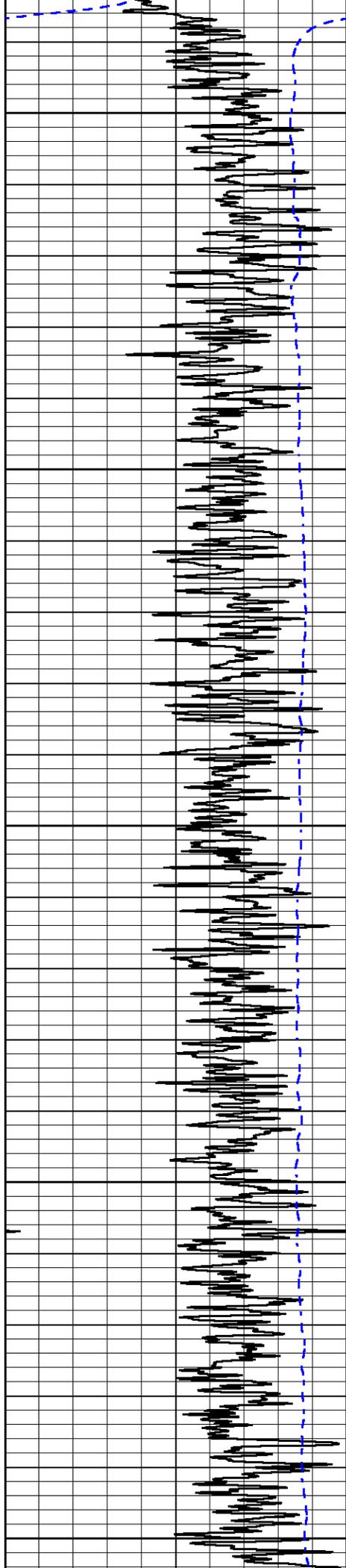
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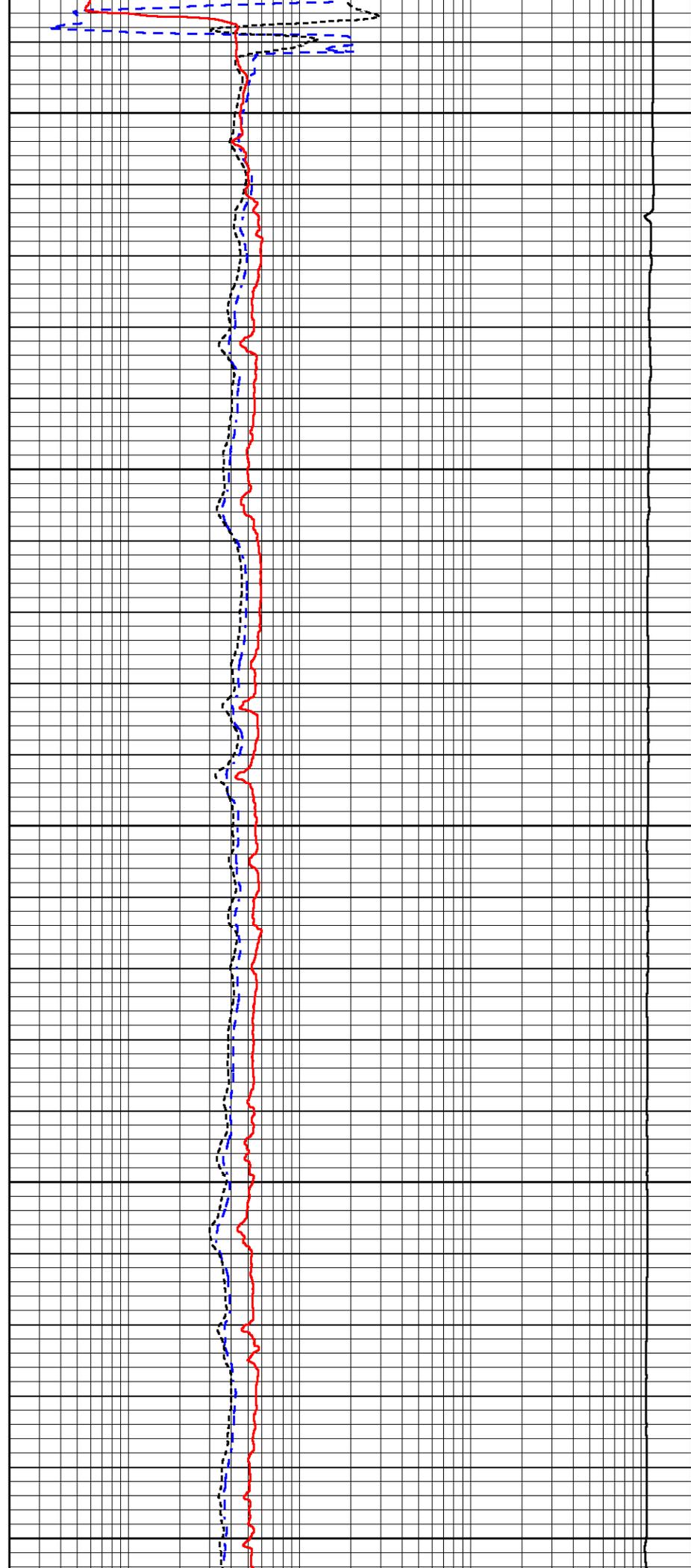
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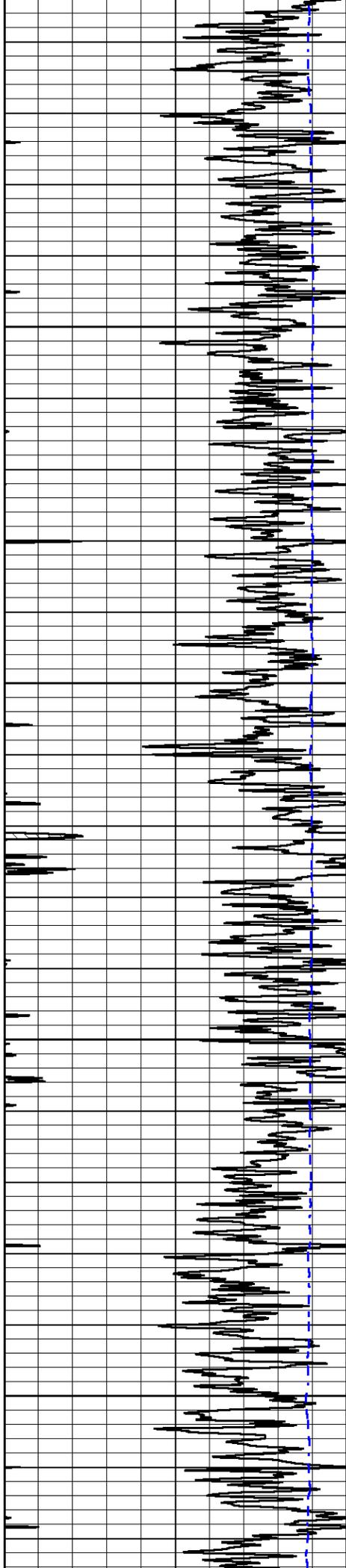
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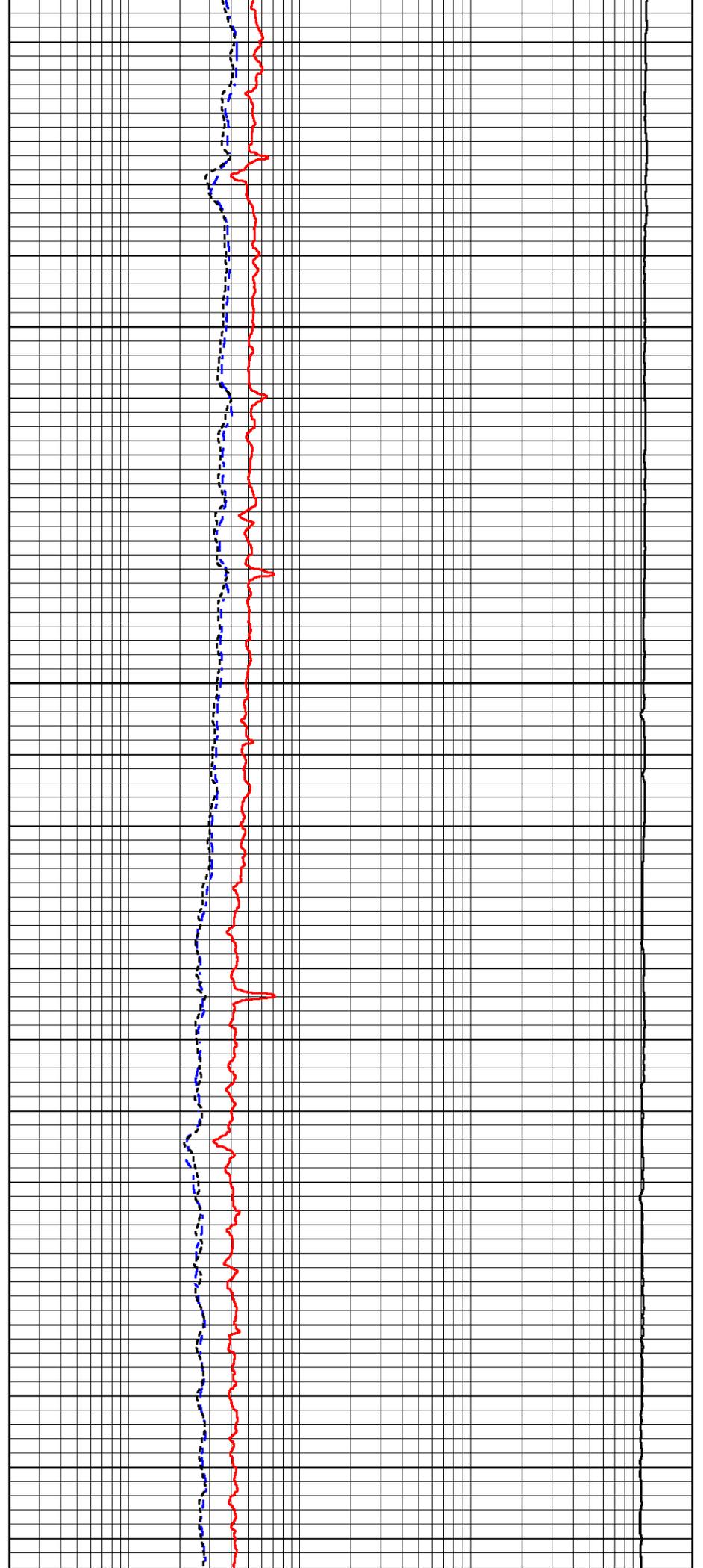


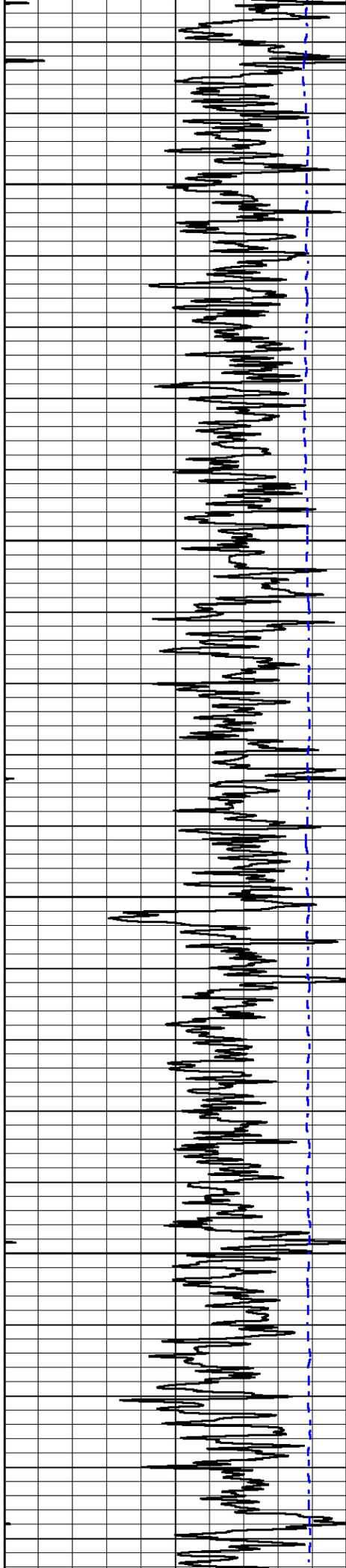
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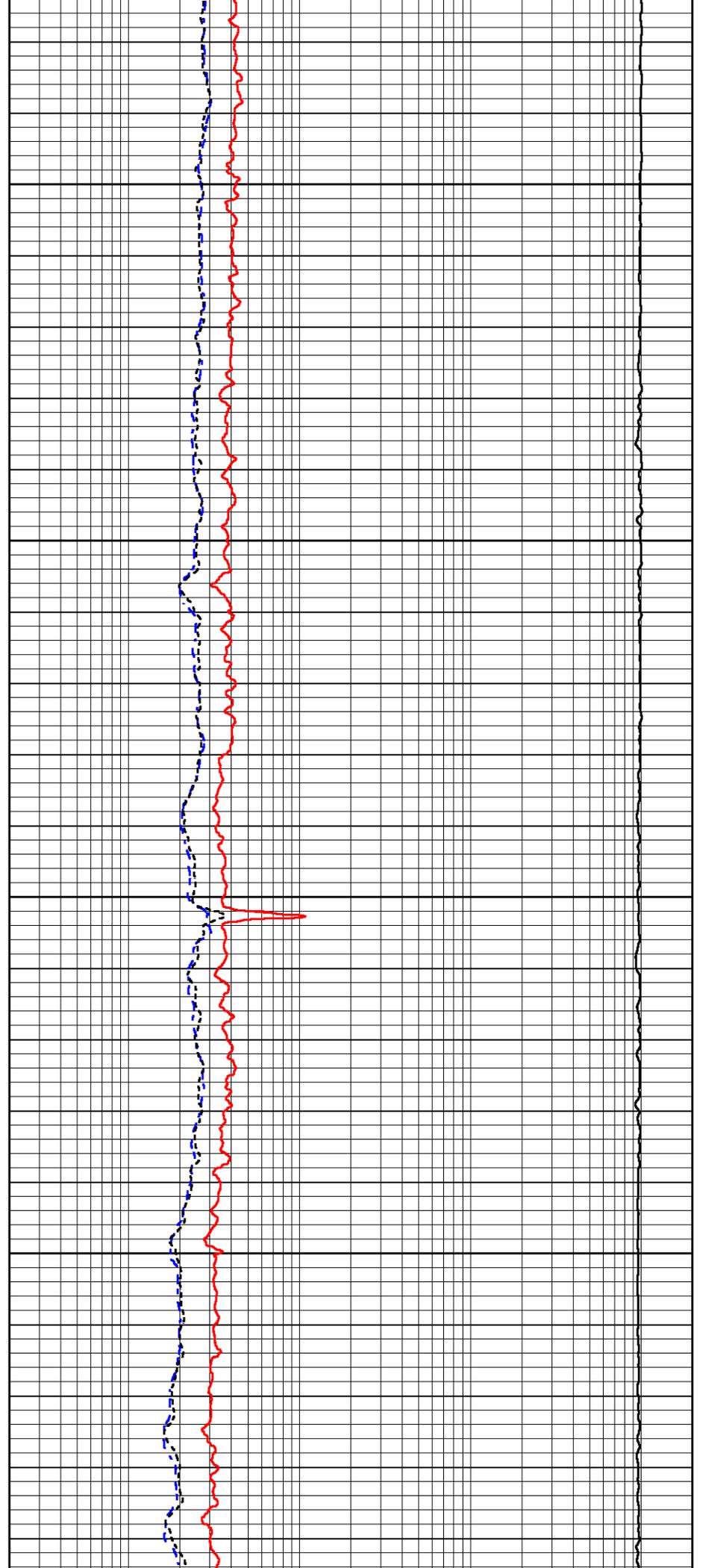


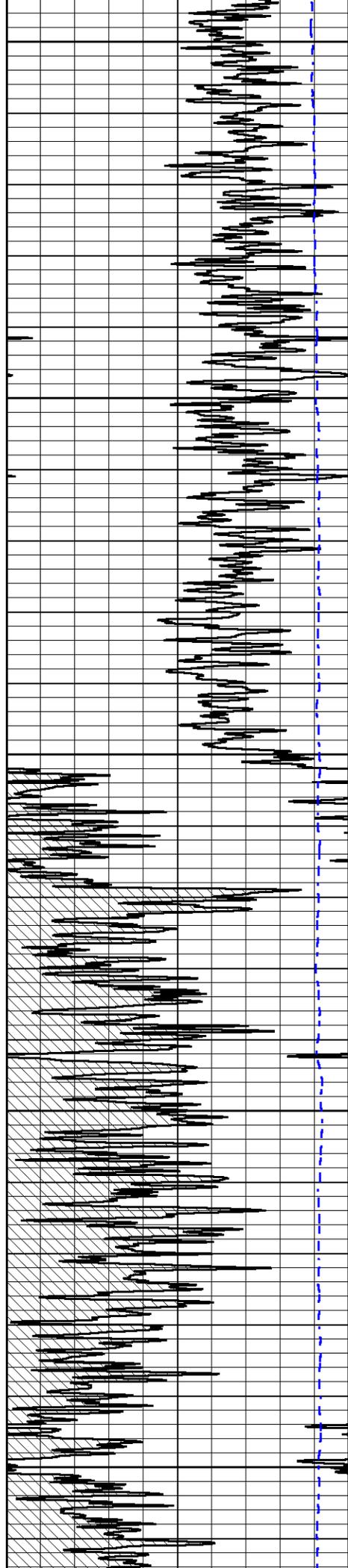
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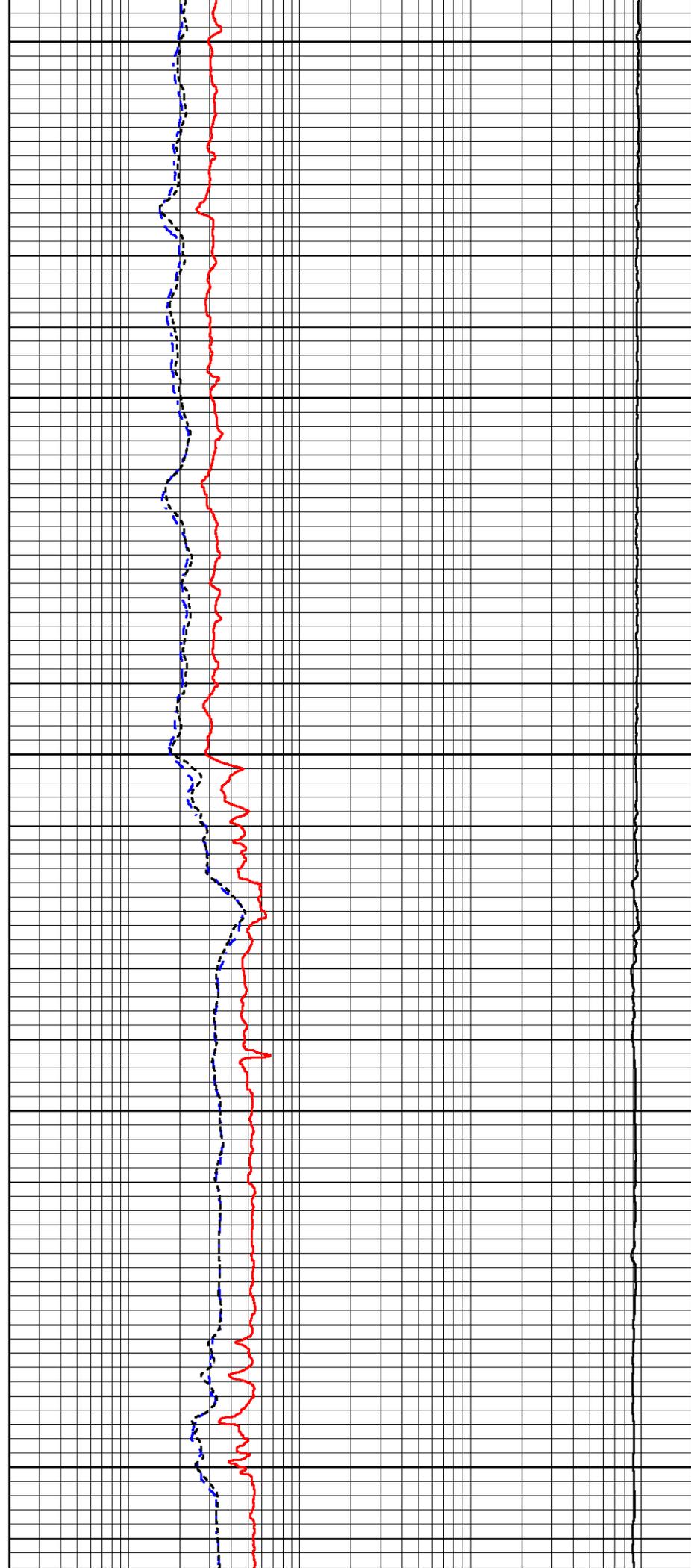
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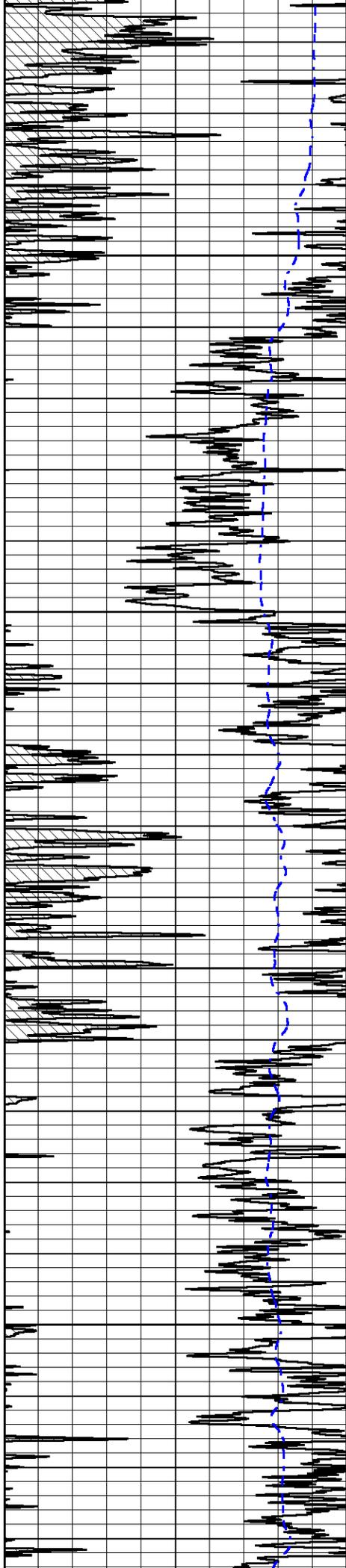
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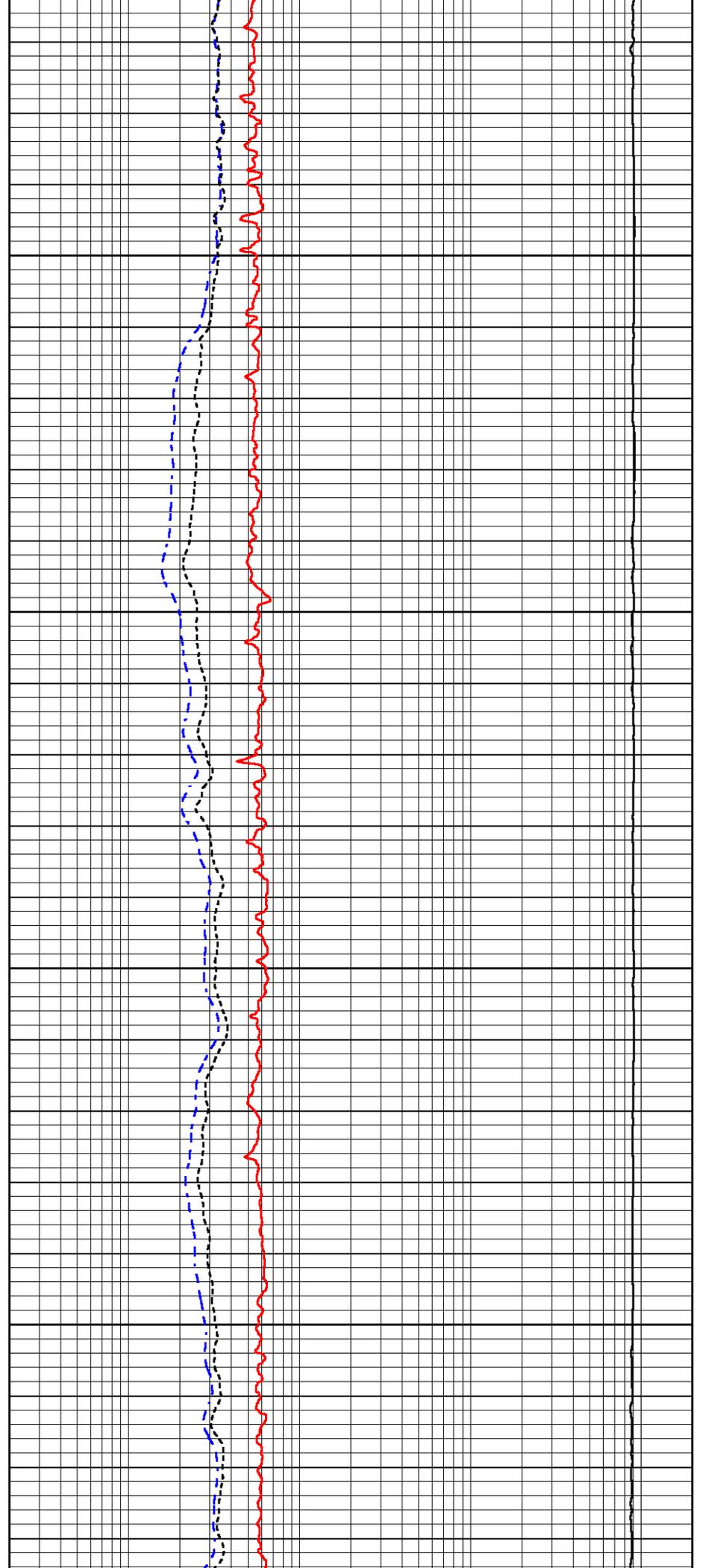


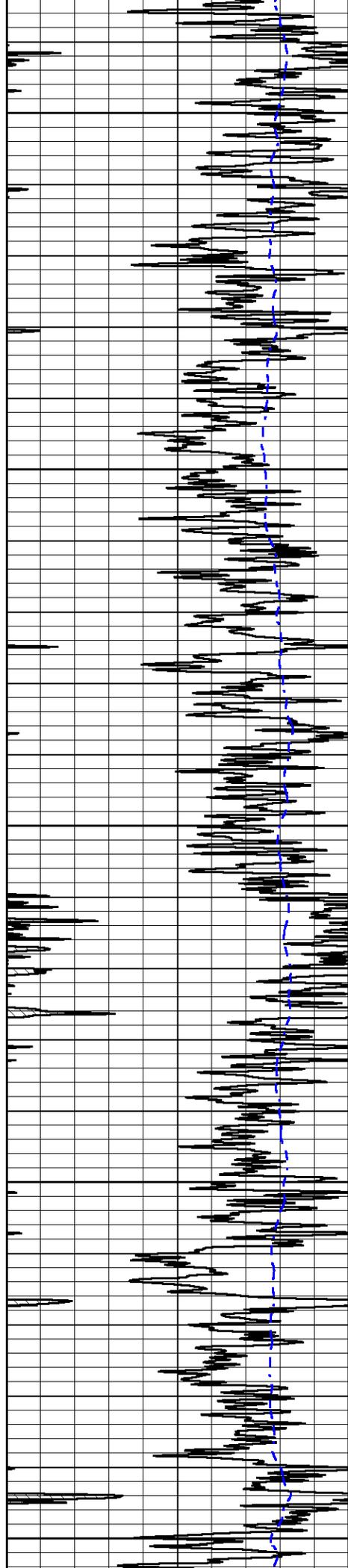
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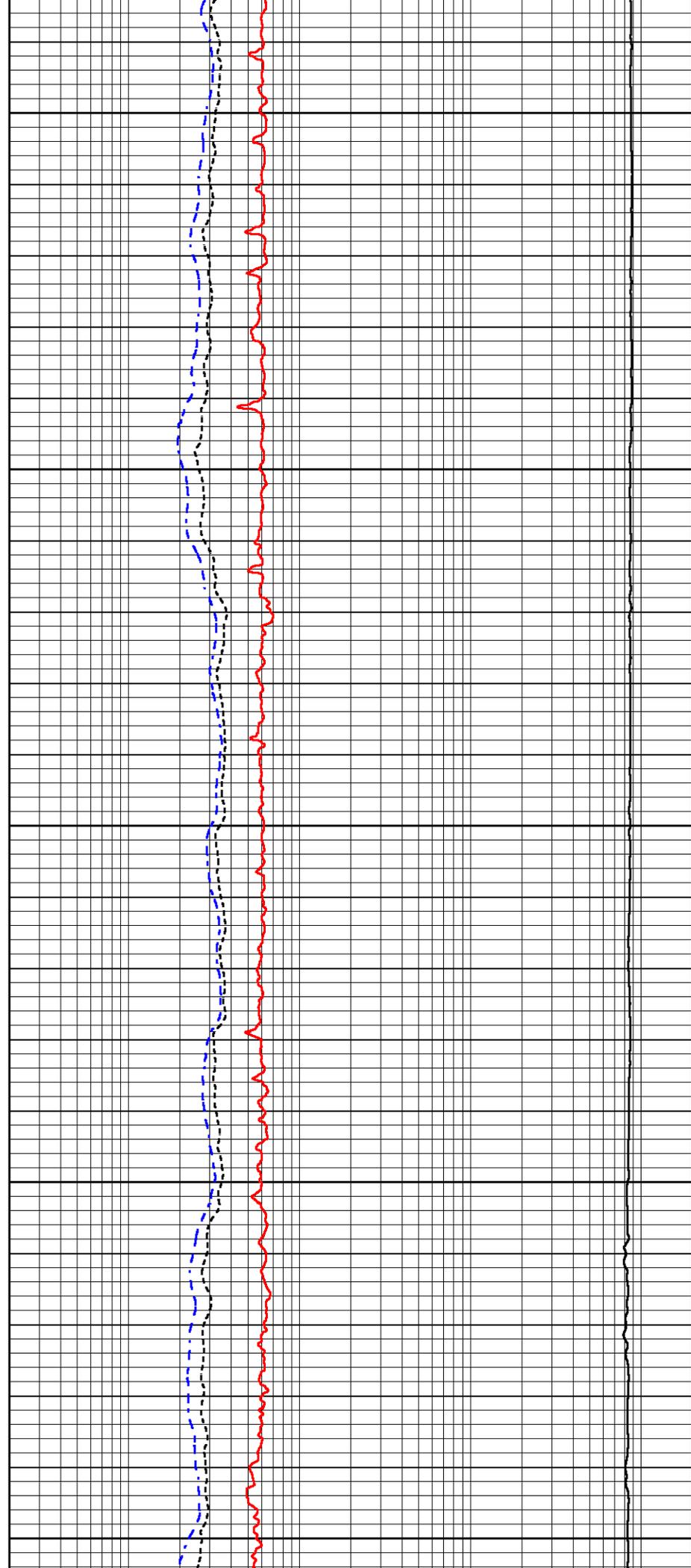
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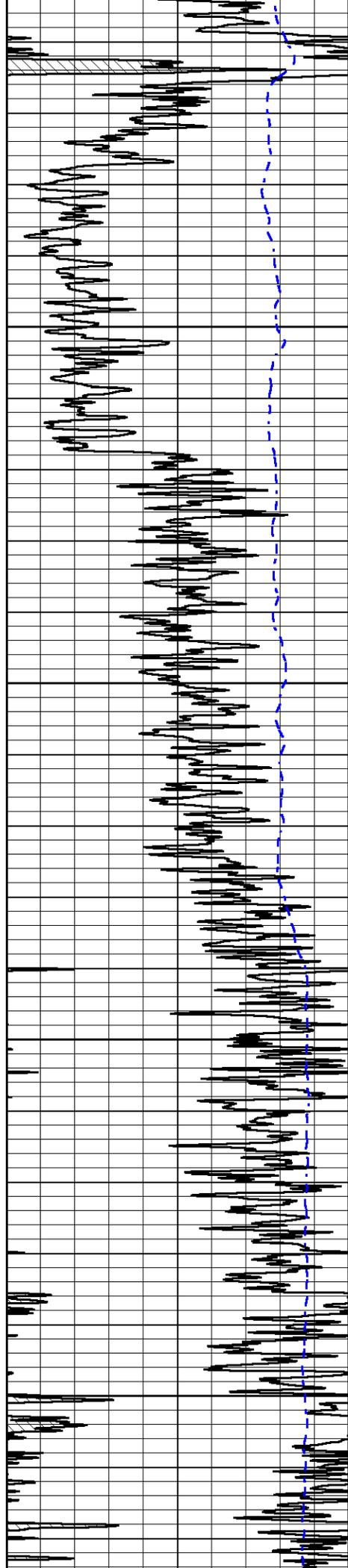
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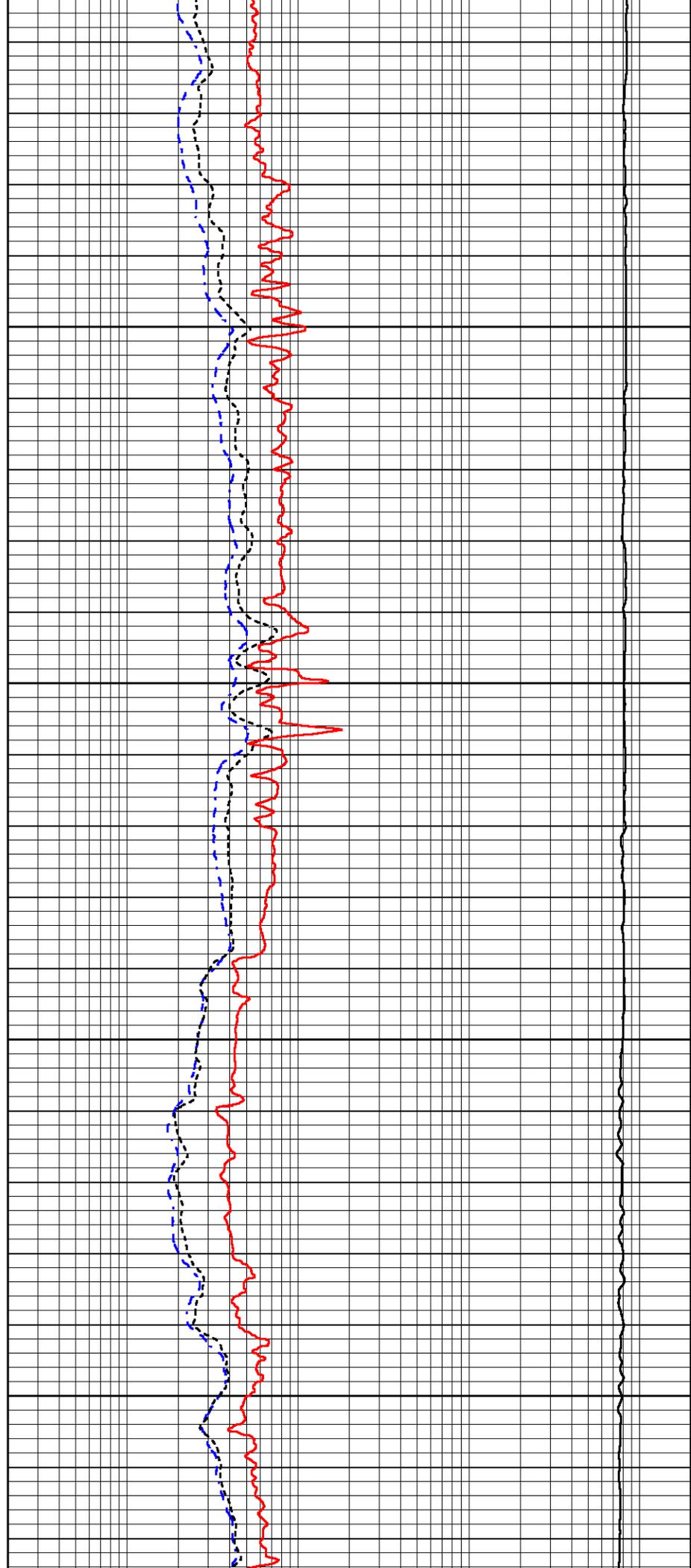


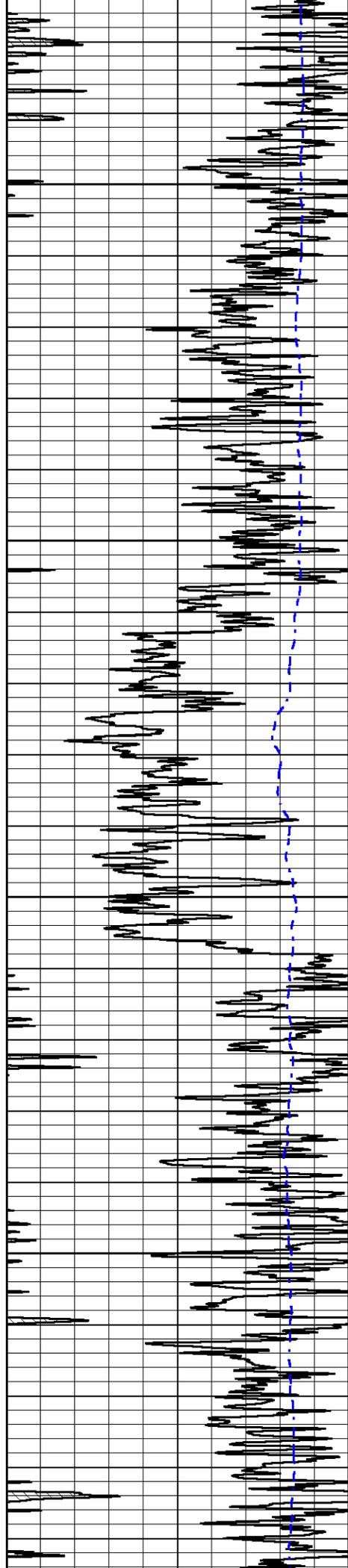
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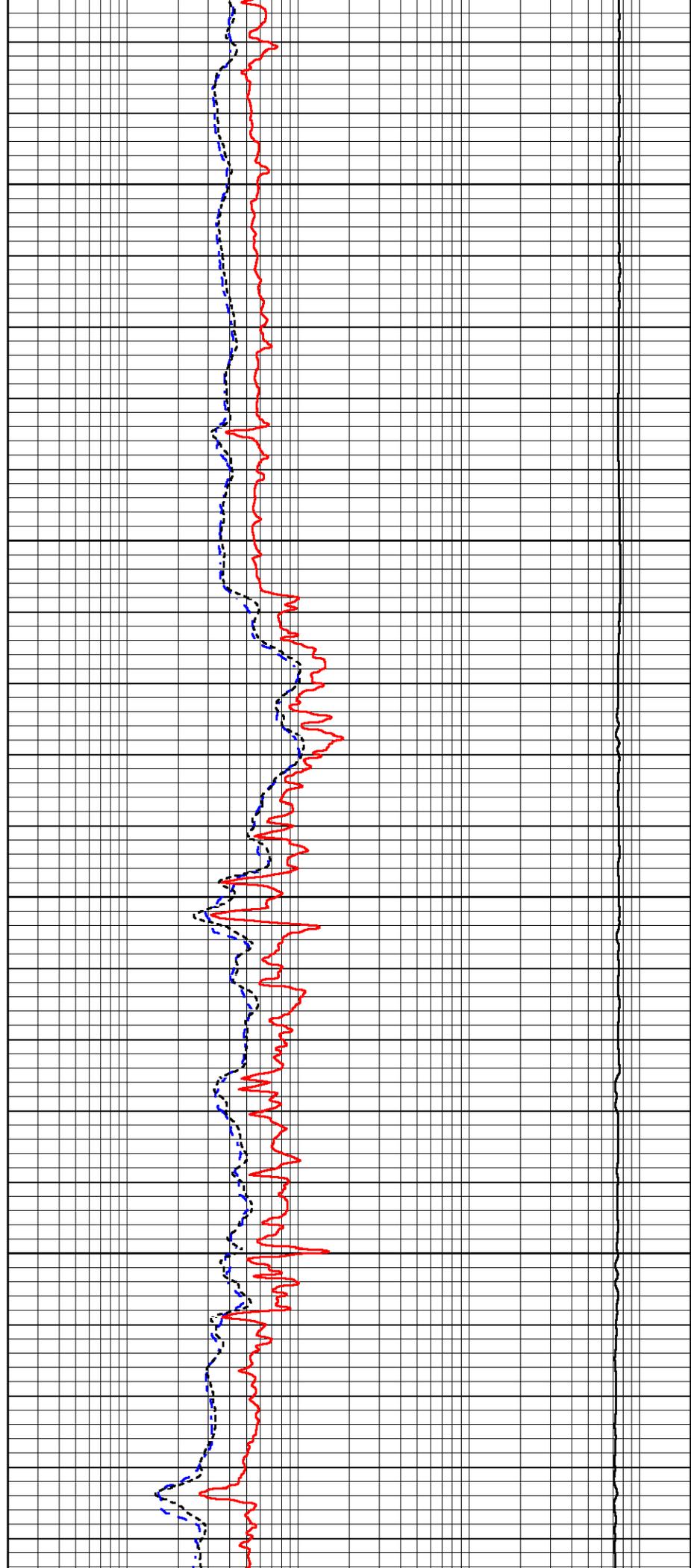


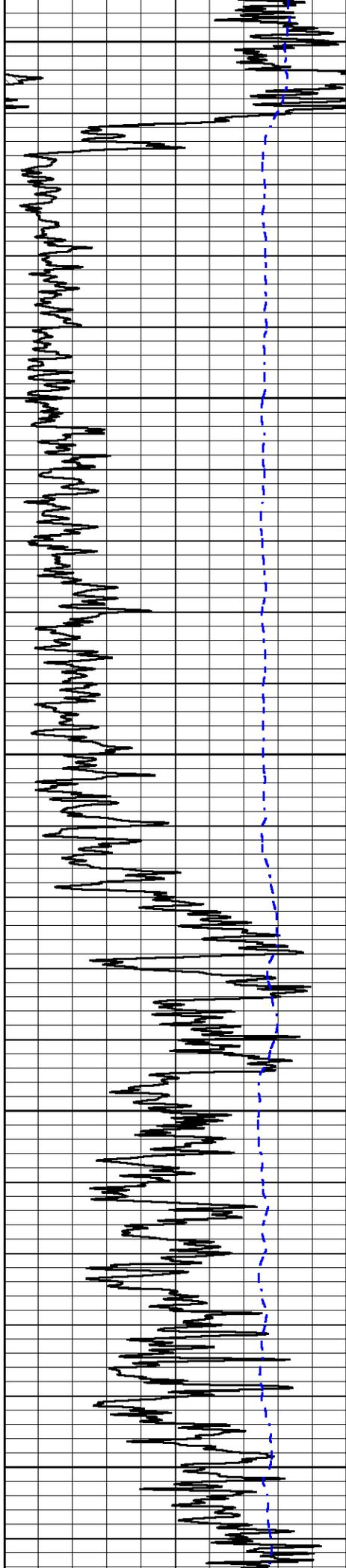
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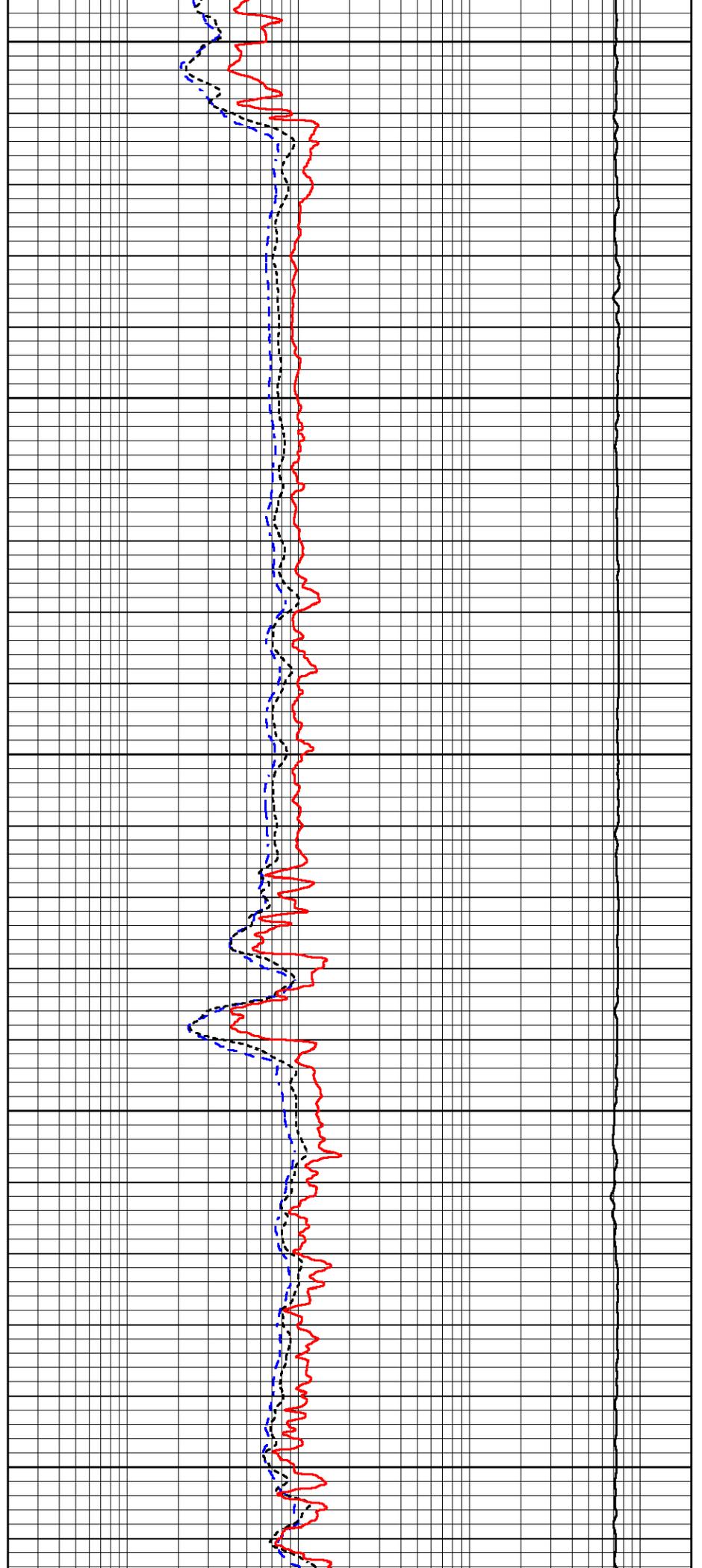
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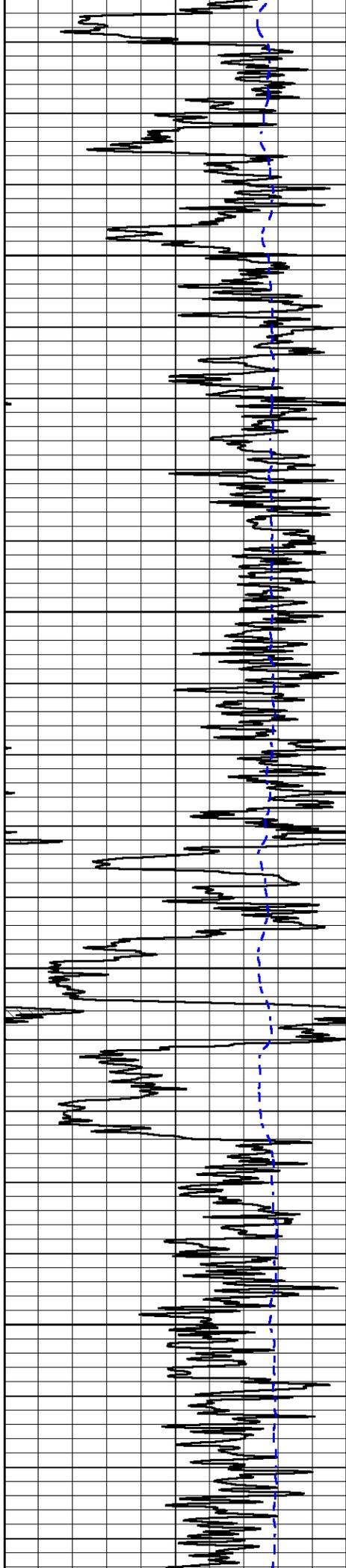
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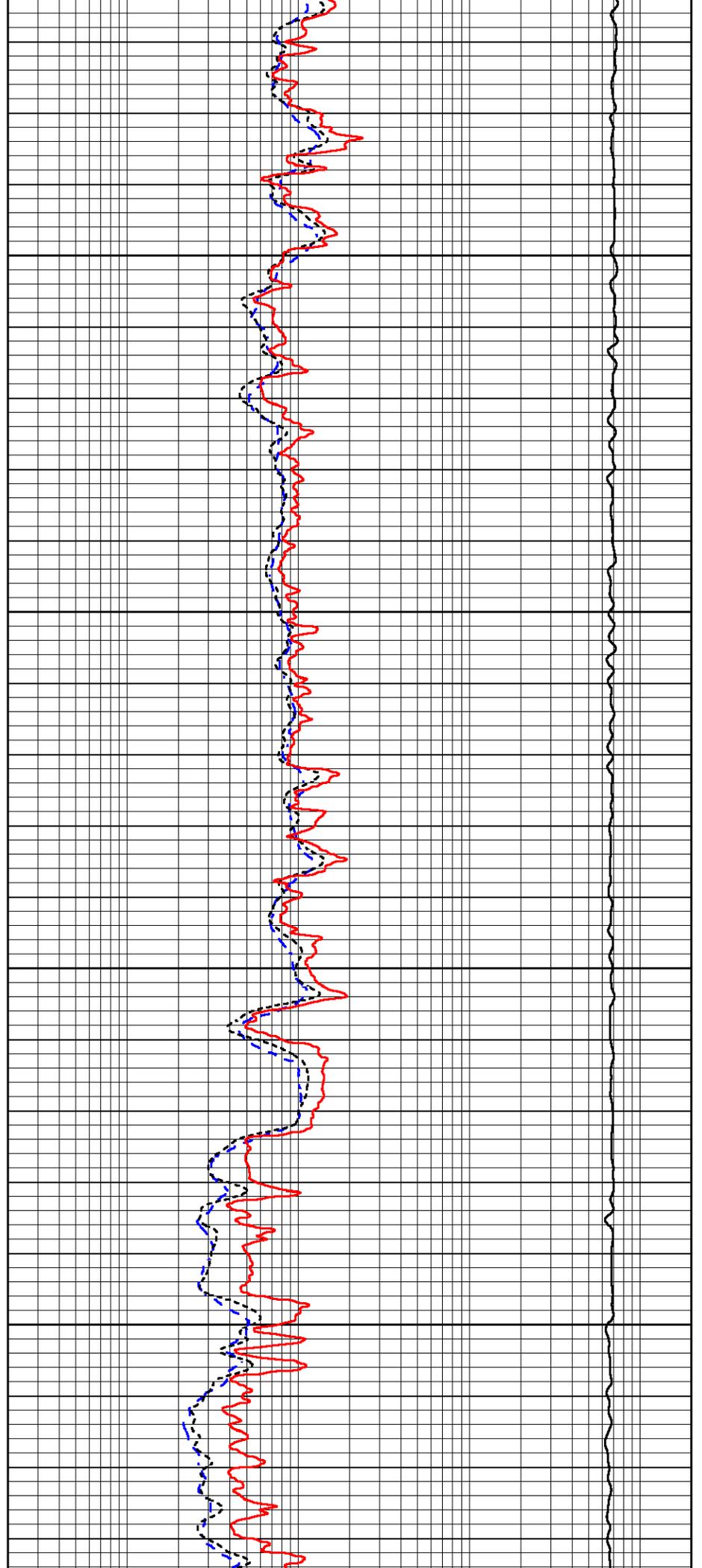


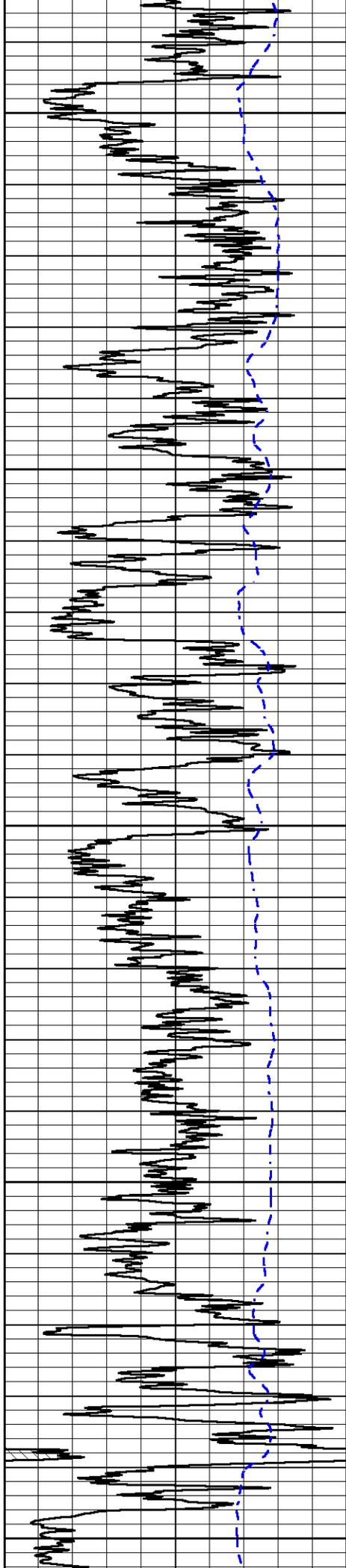
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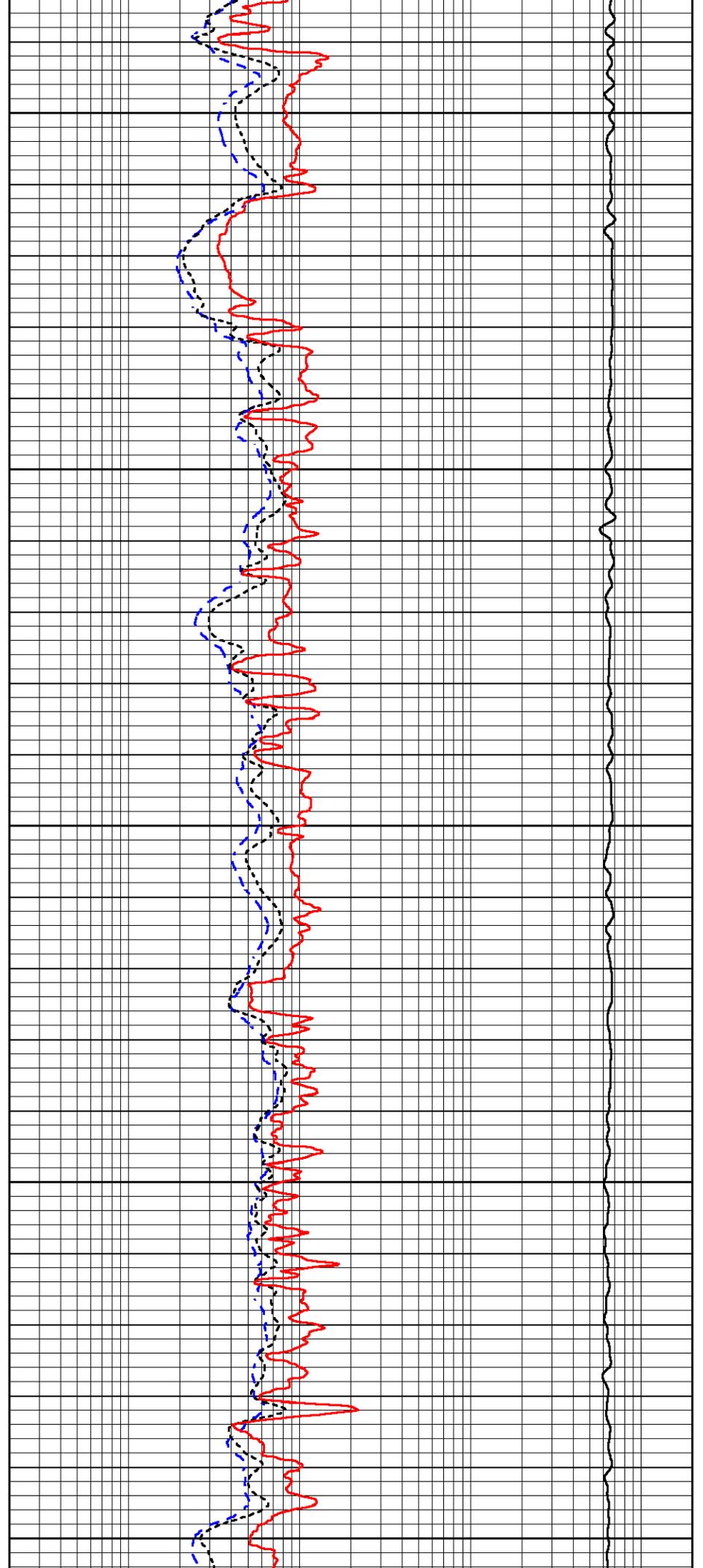
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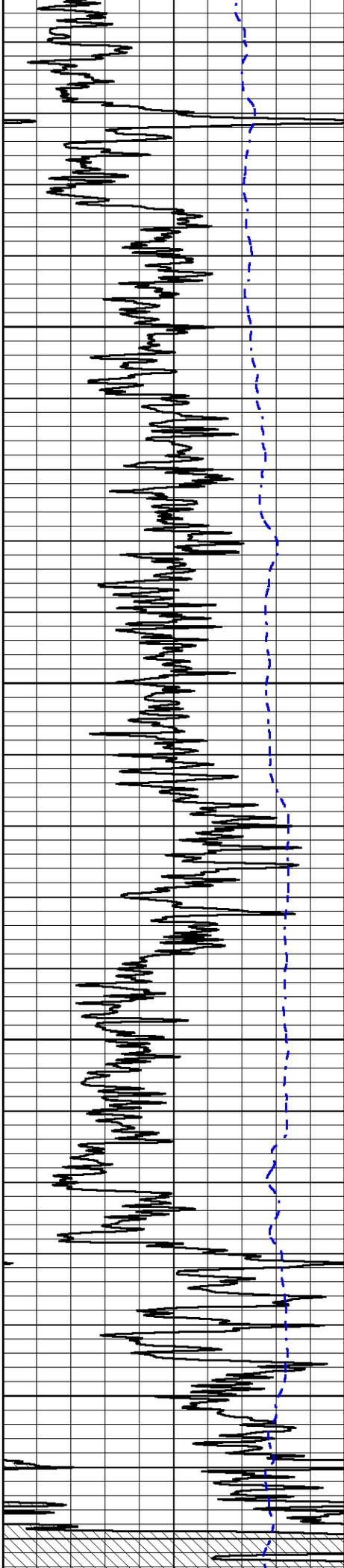
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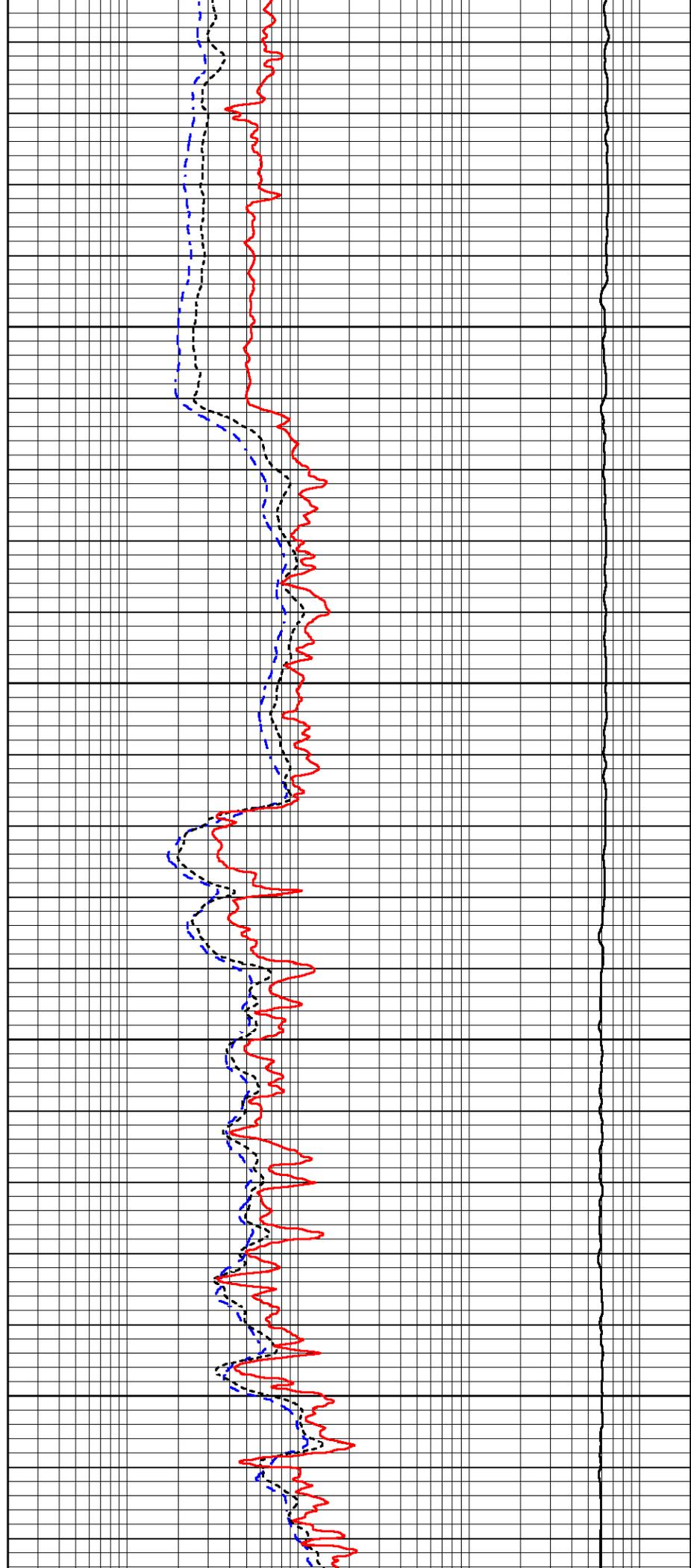


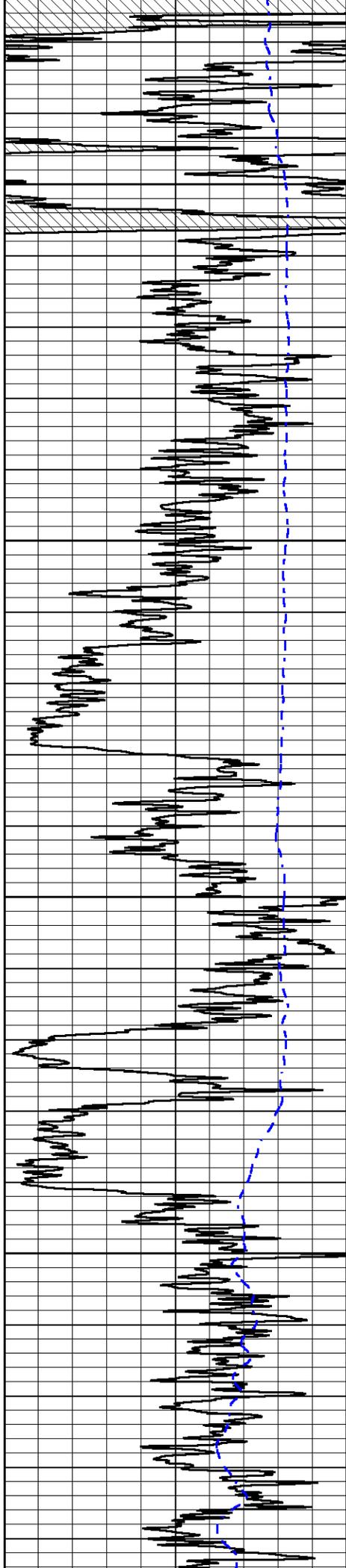
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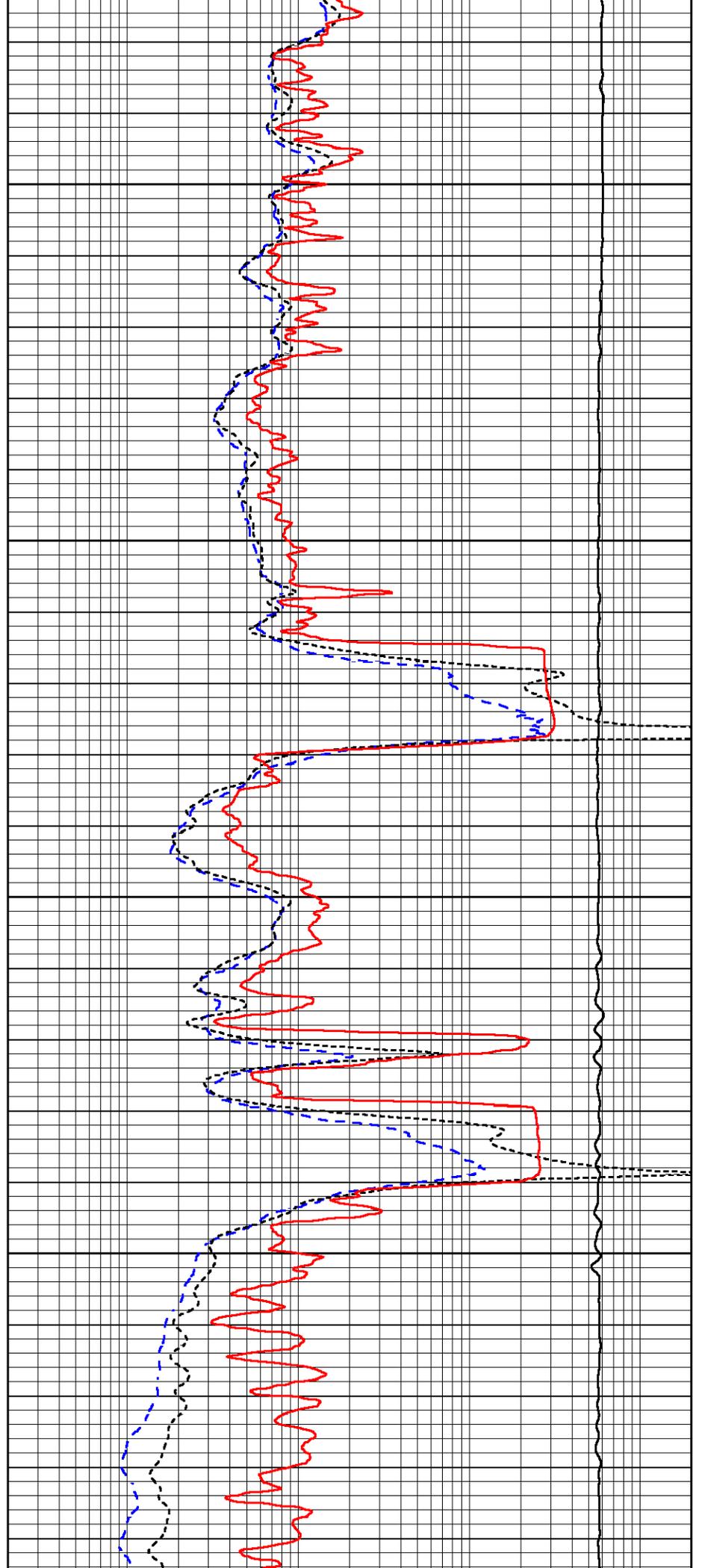


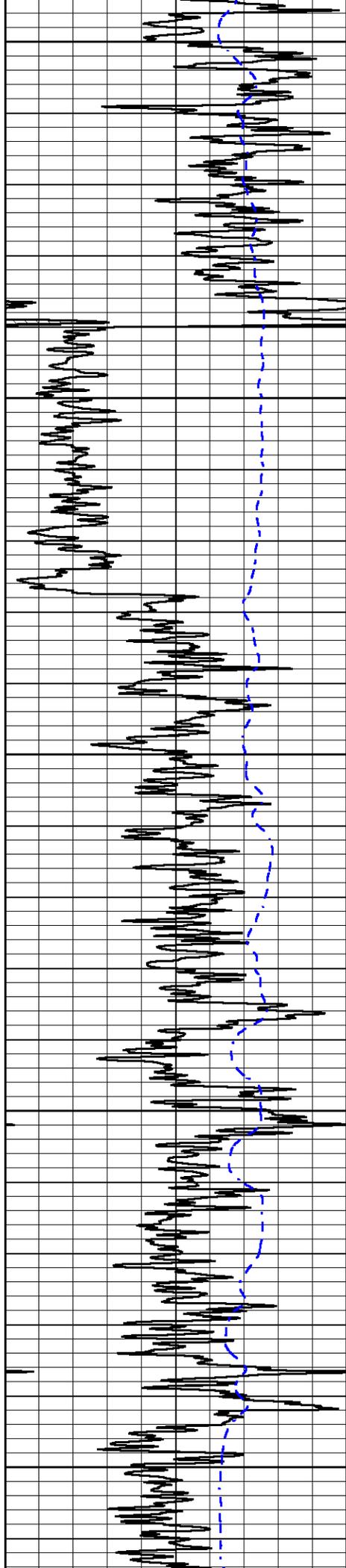
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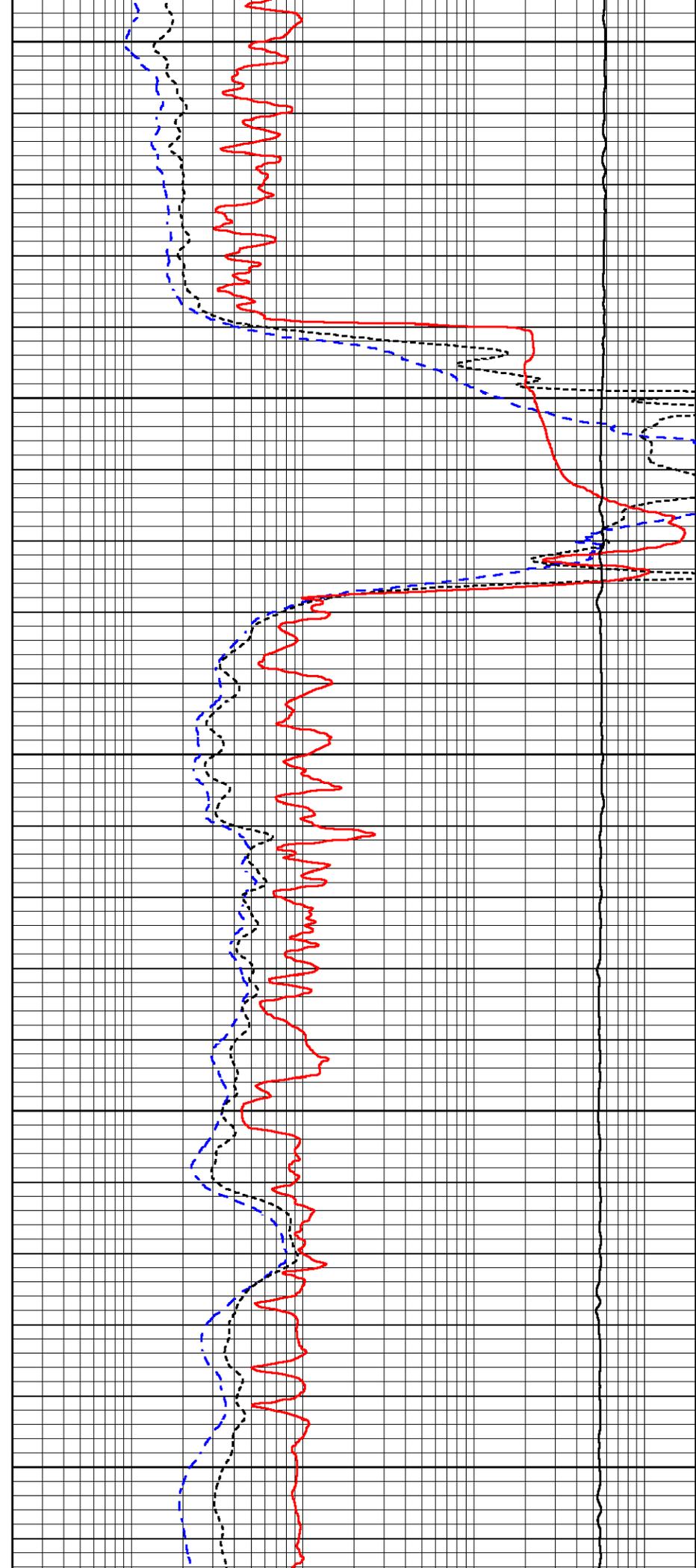
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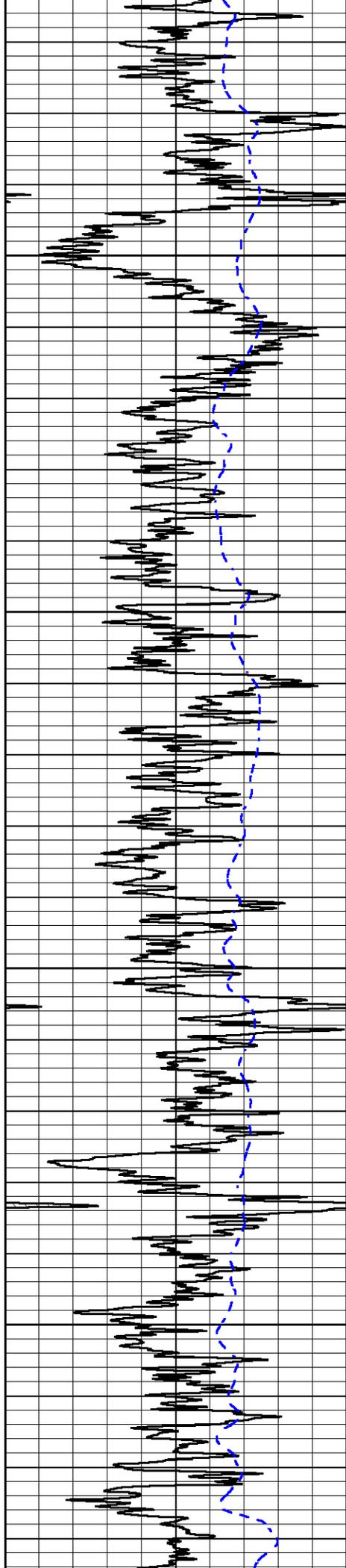
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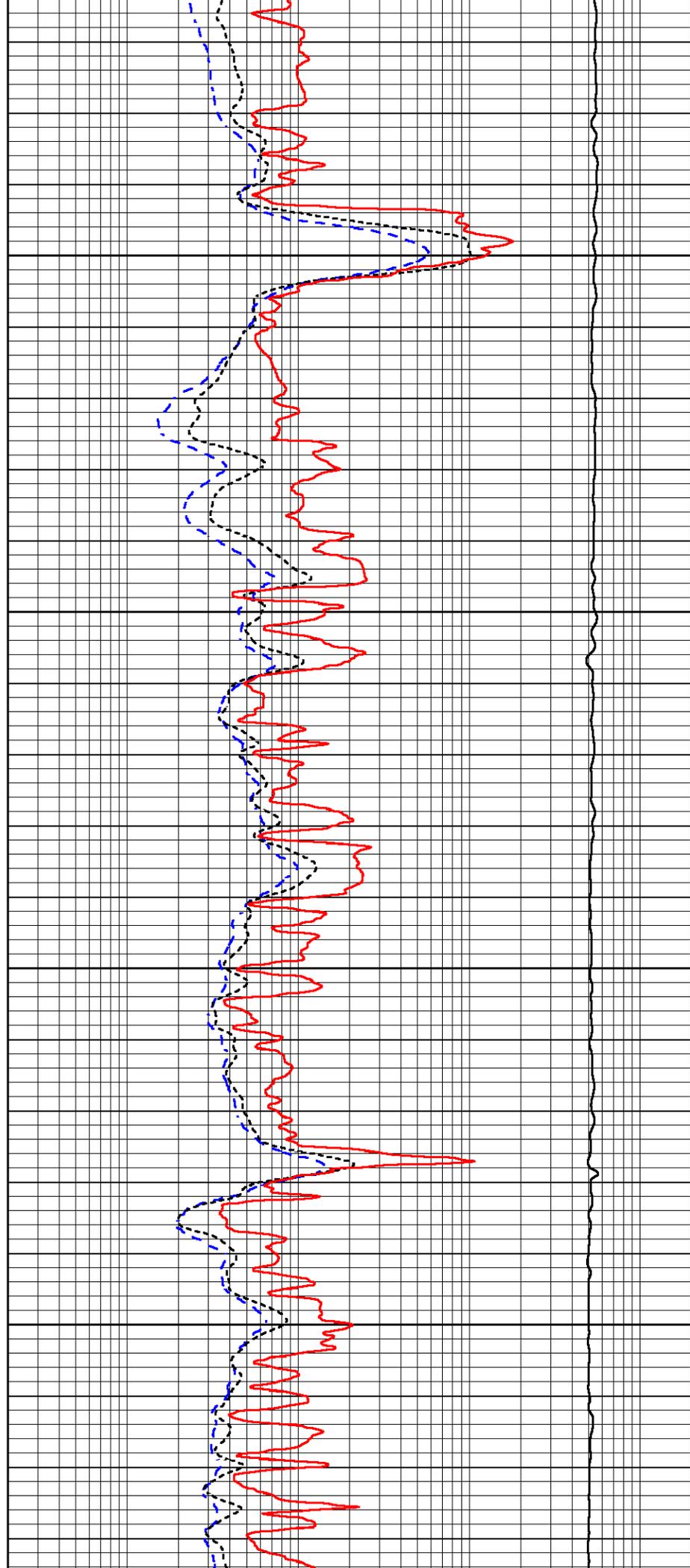


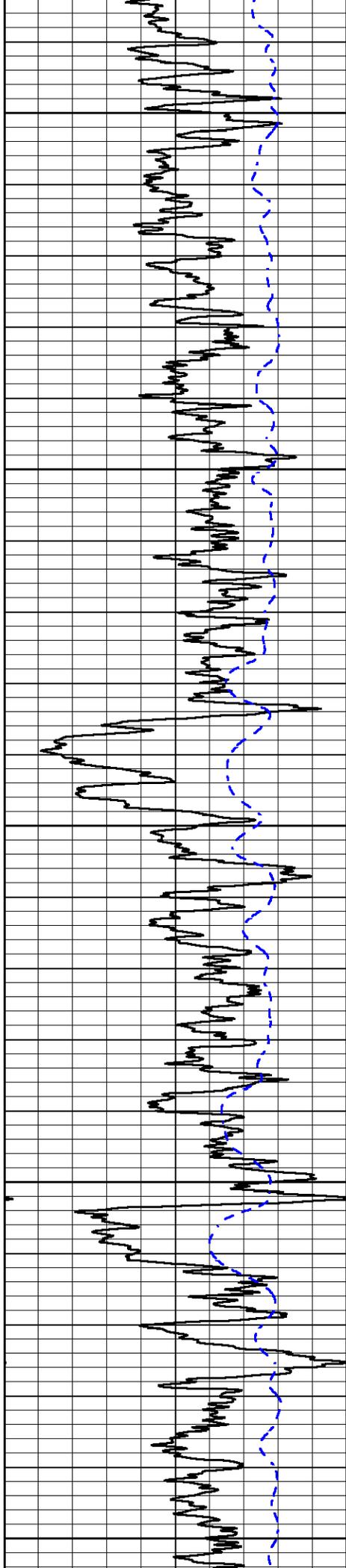
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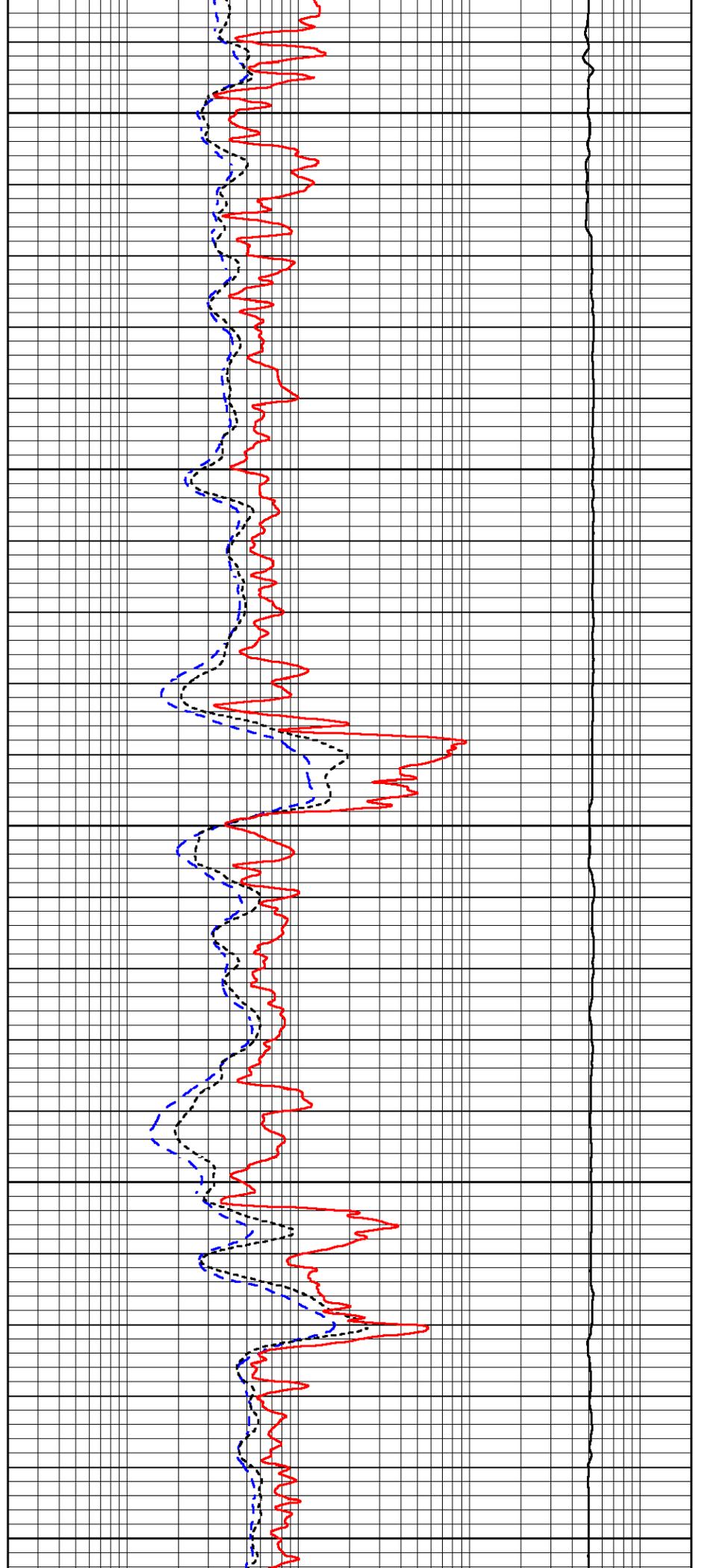
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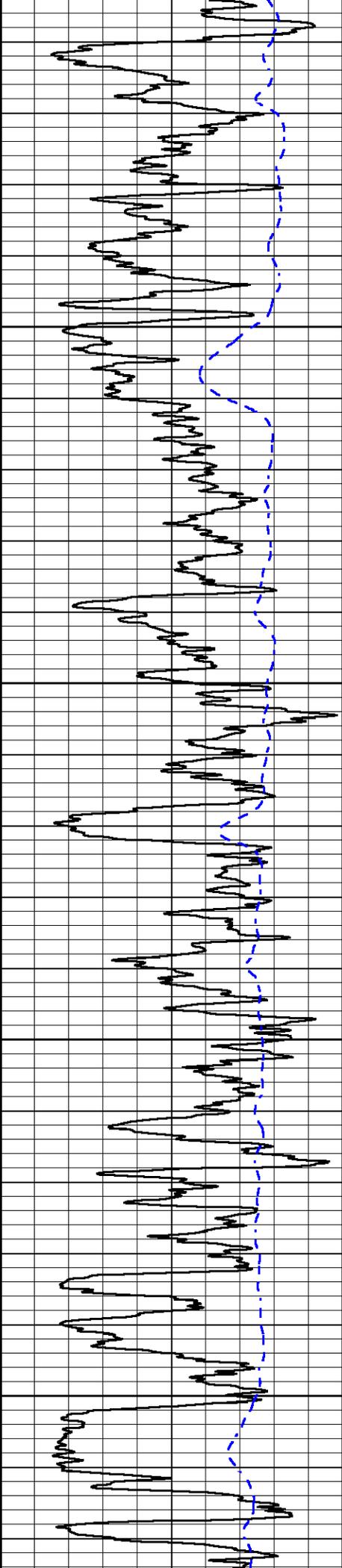
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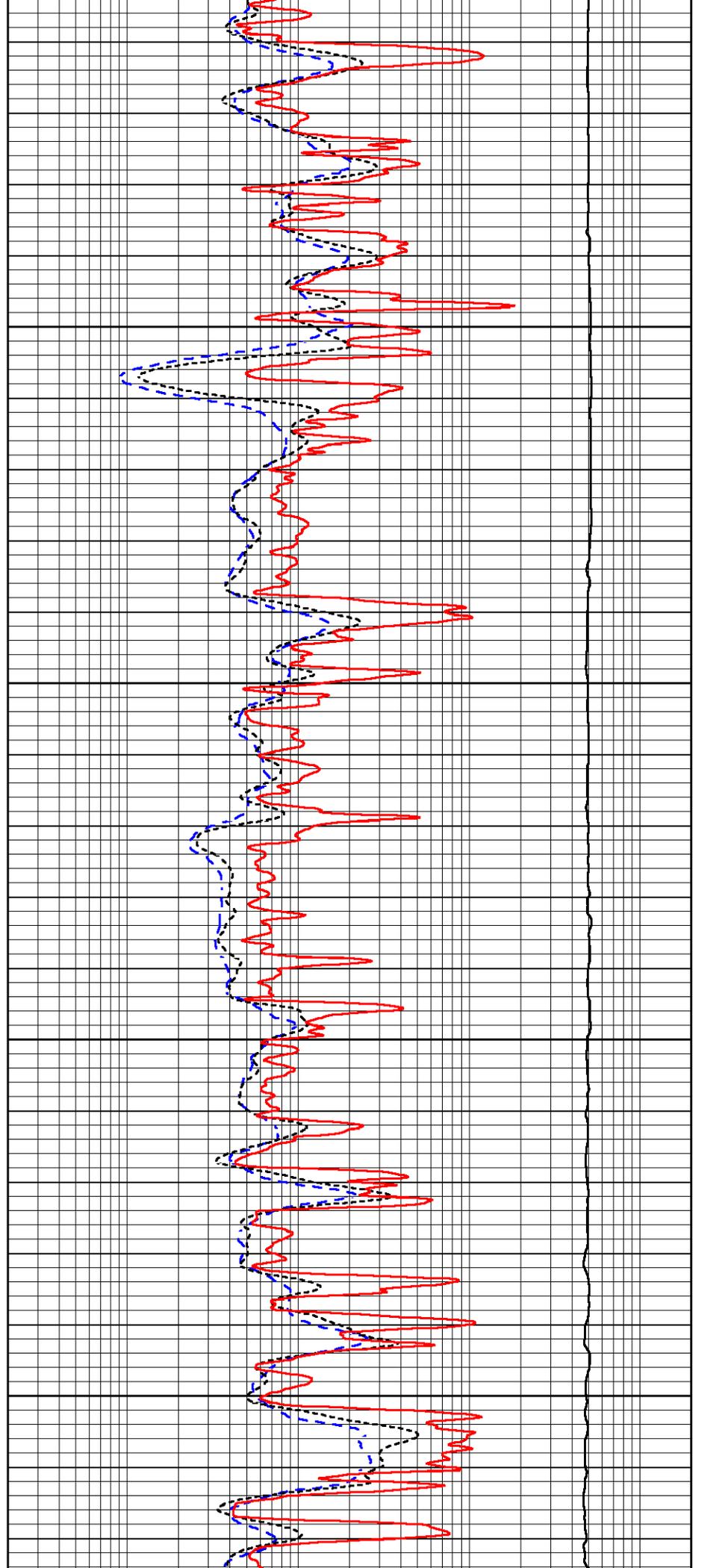


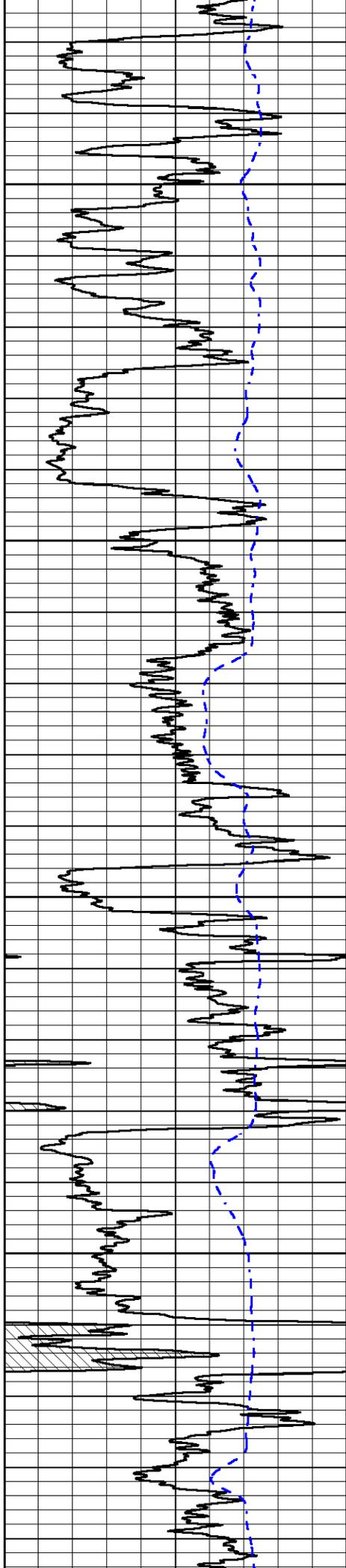
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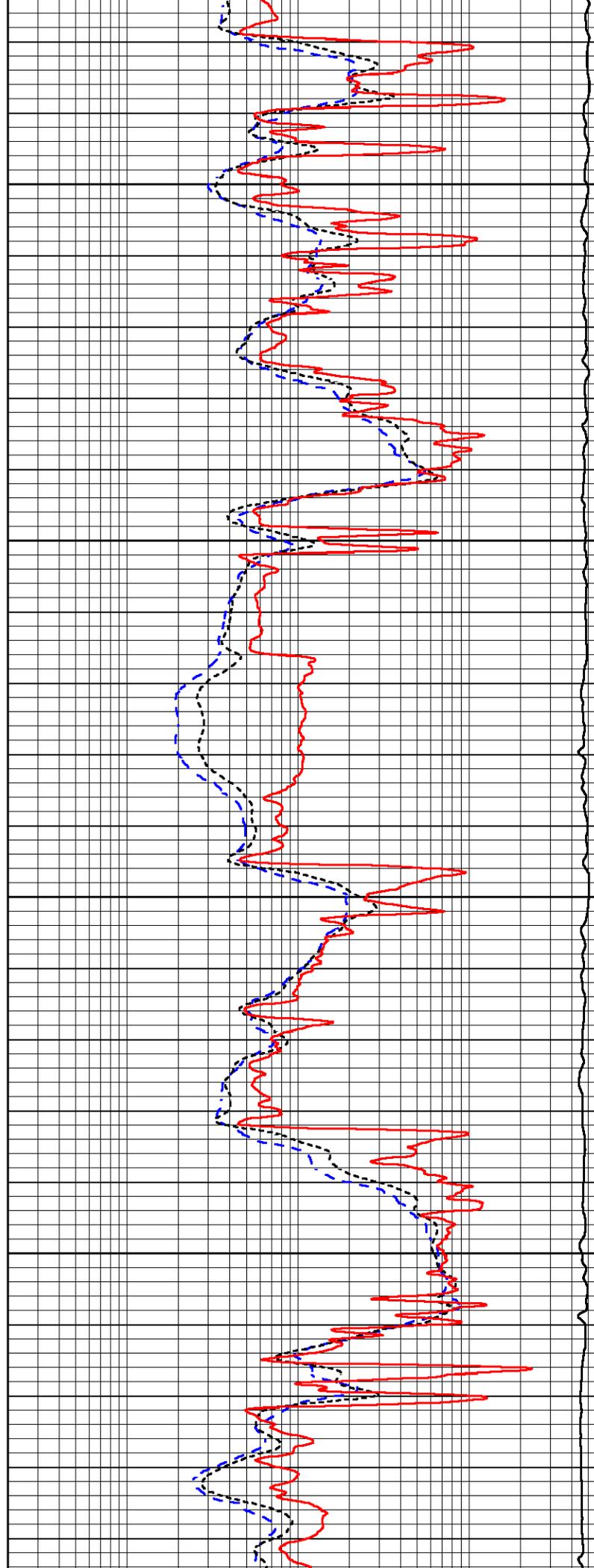


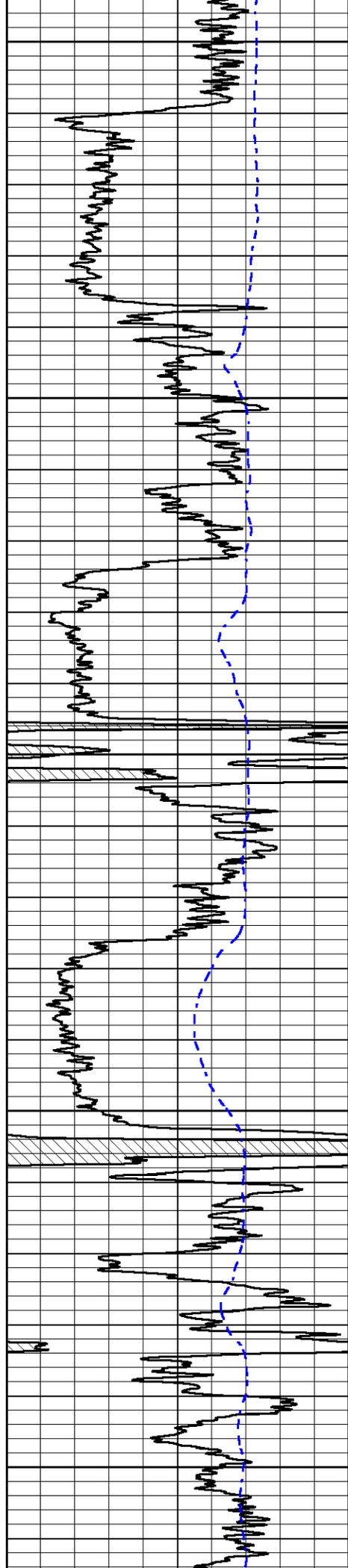
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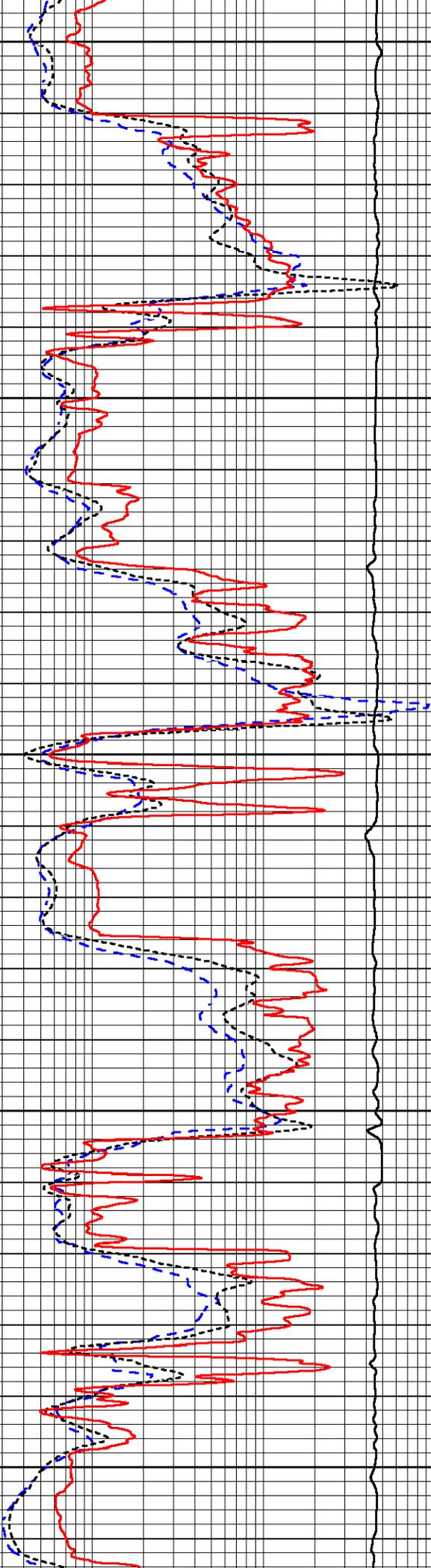
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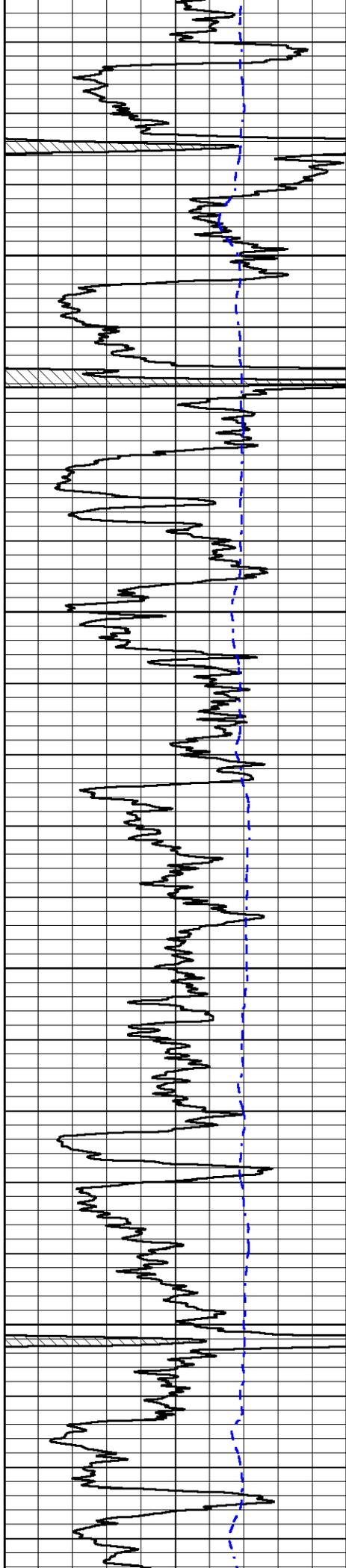
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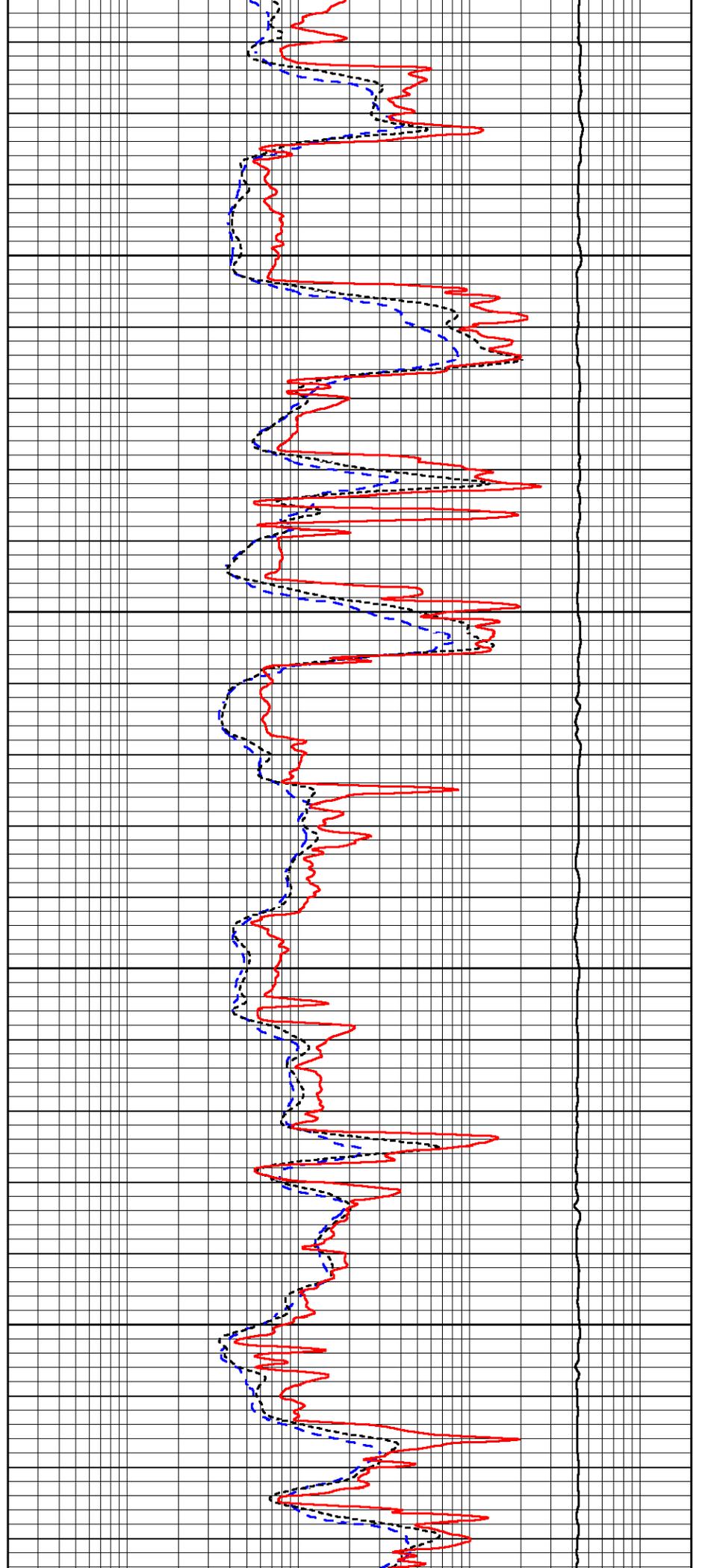


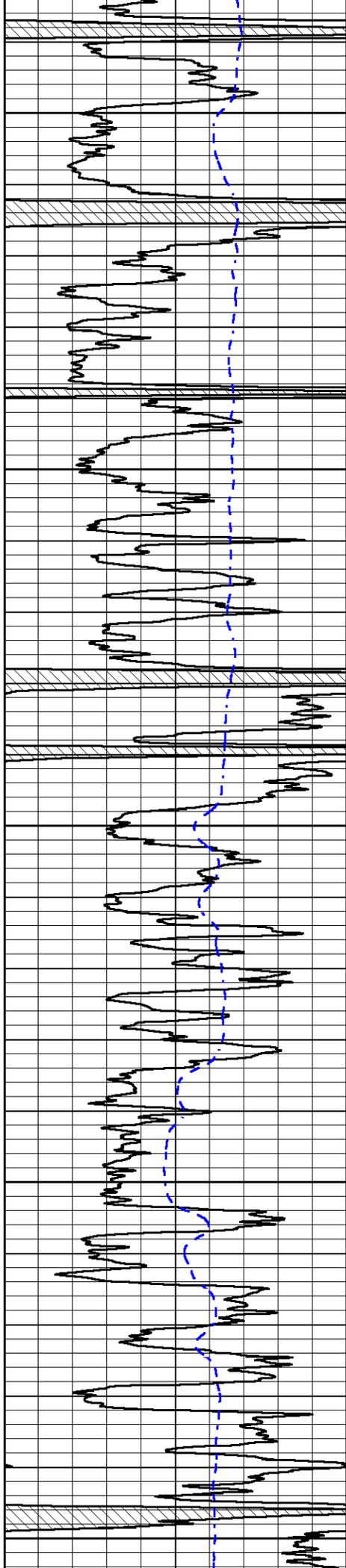
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4650

4700

4750





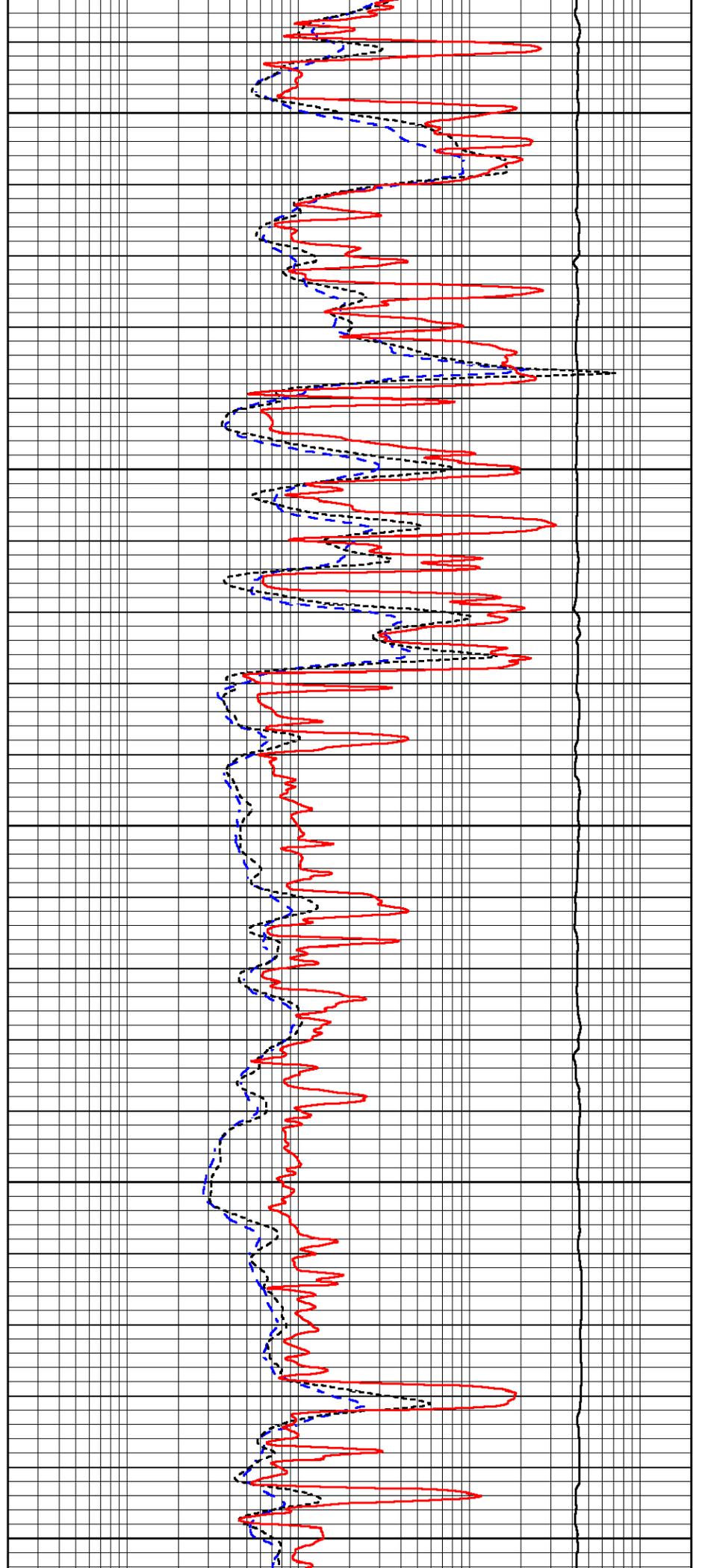
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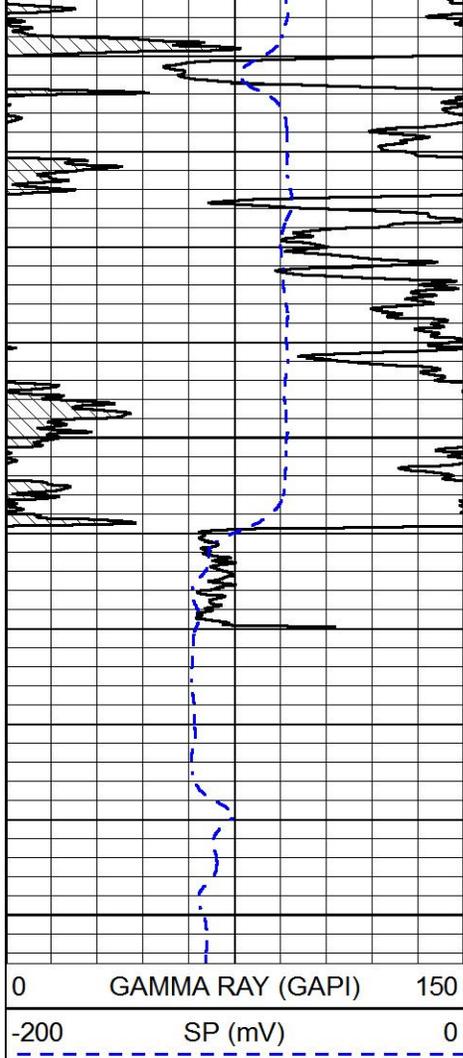
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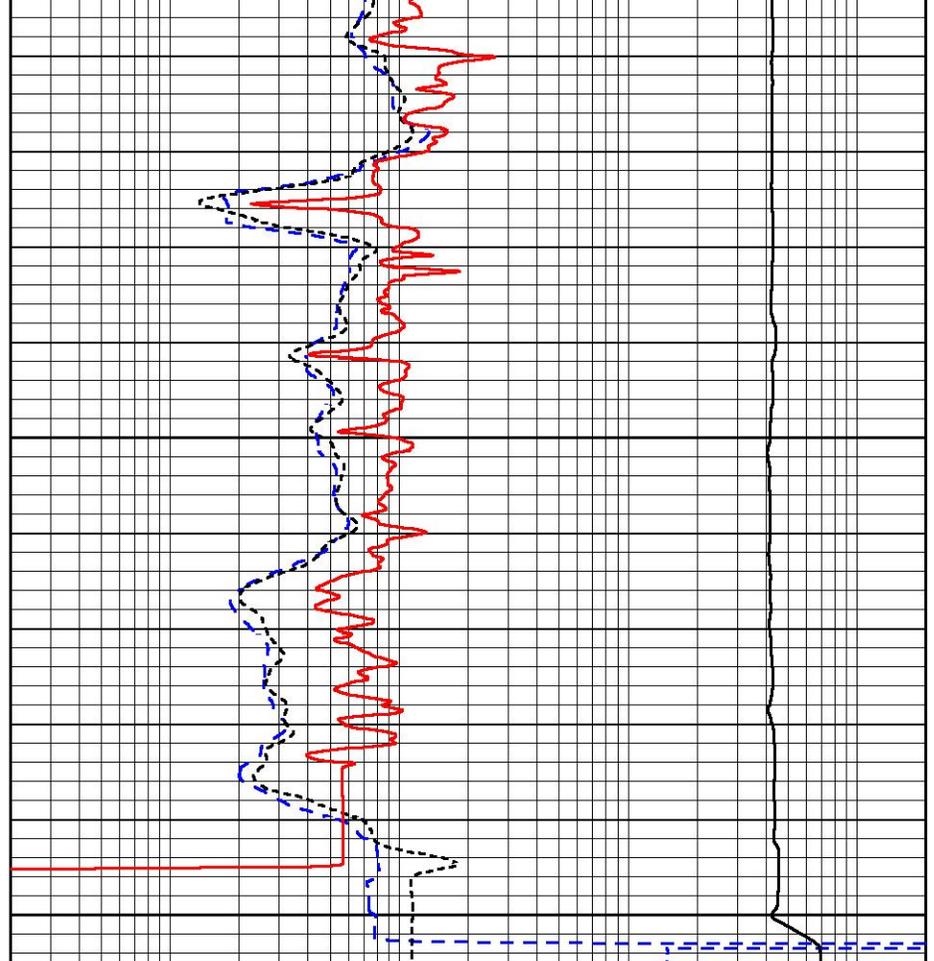




5050

5100

0	GAMMA RAY (GAPI)	150
-200	SP (mV)	0



0.2	DEEP RESISTIVITY (Ohm-m)	2000
0.2	MEDIUM RESISTIVITY (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
15000	LINE TENSION (lb)	0



MIDWEST WIRELINE

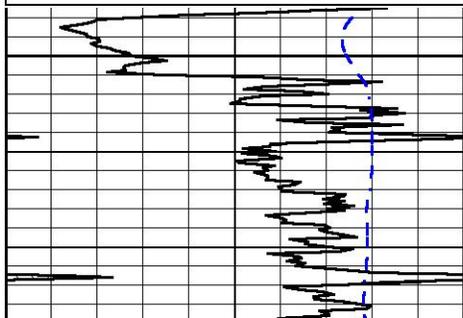
REPEAT SECTION

REPEAT PASS

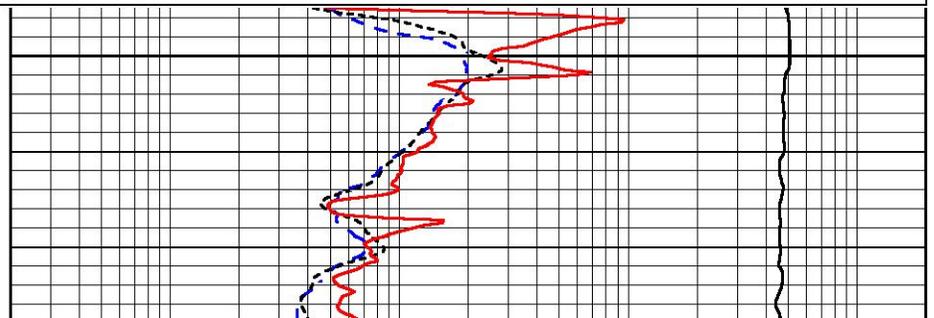
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 Dataset Pathname stkml/pass3.1
 Presentation Format dil
 Dataset Creation Thu Jun 24 23:53:23 2021
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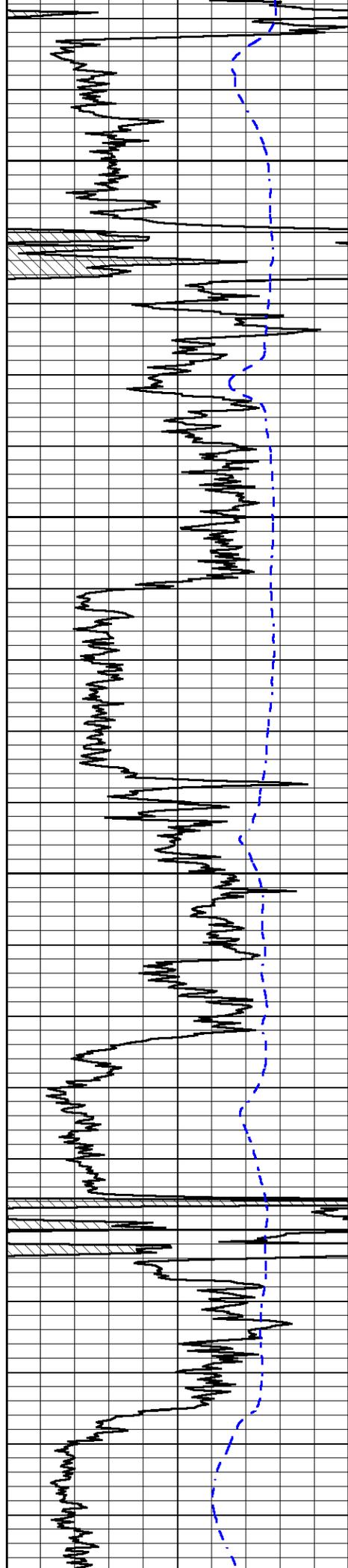
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-200	SP (mV)	0

0.2	DEEP RESISTIVITY (Ohm-m)	2000
0.2	MEDIUM RESISTIVITY (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
15000	LINE TENSION (lb)	0



4250



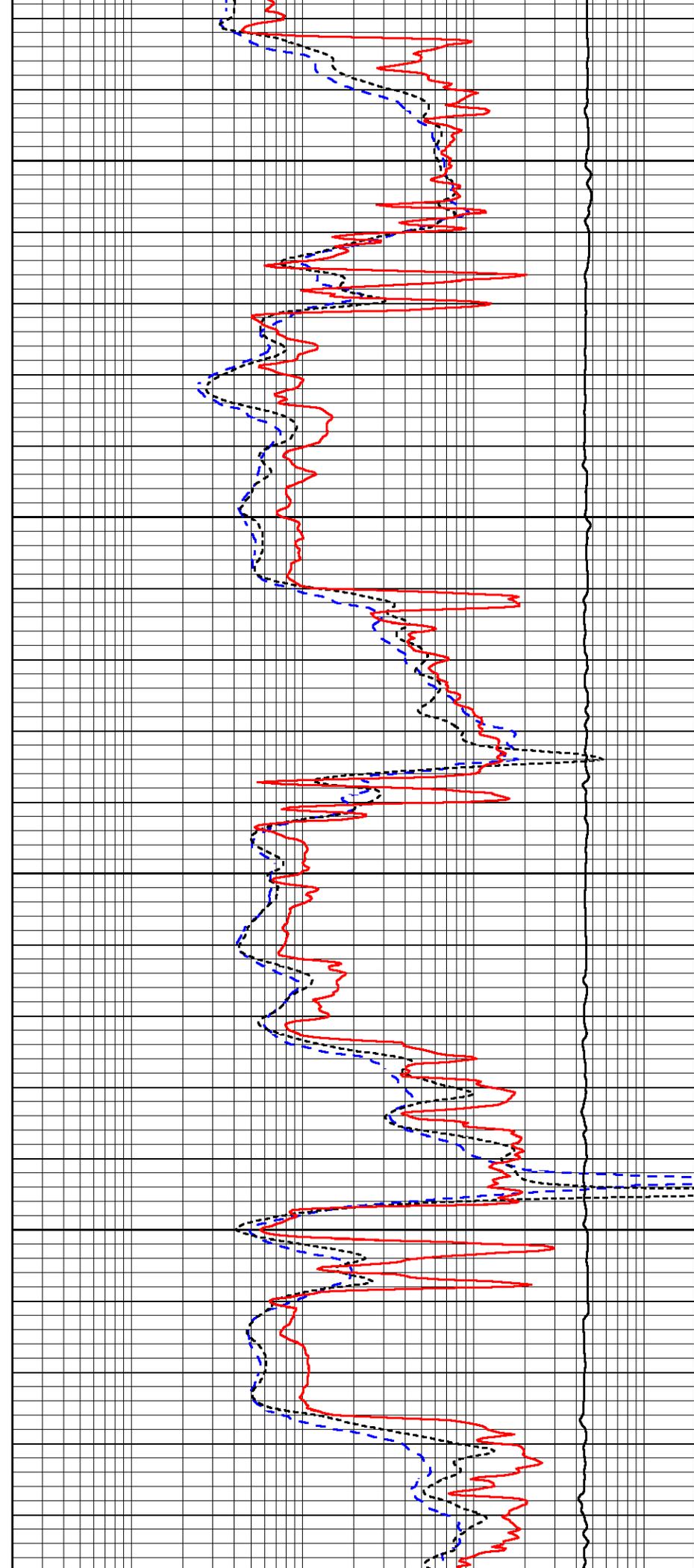


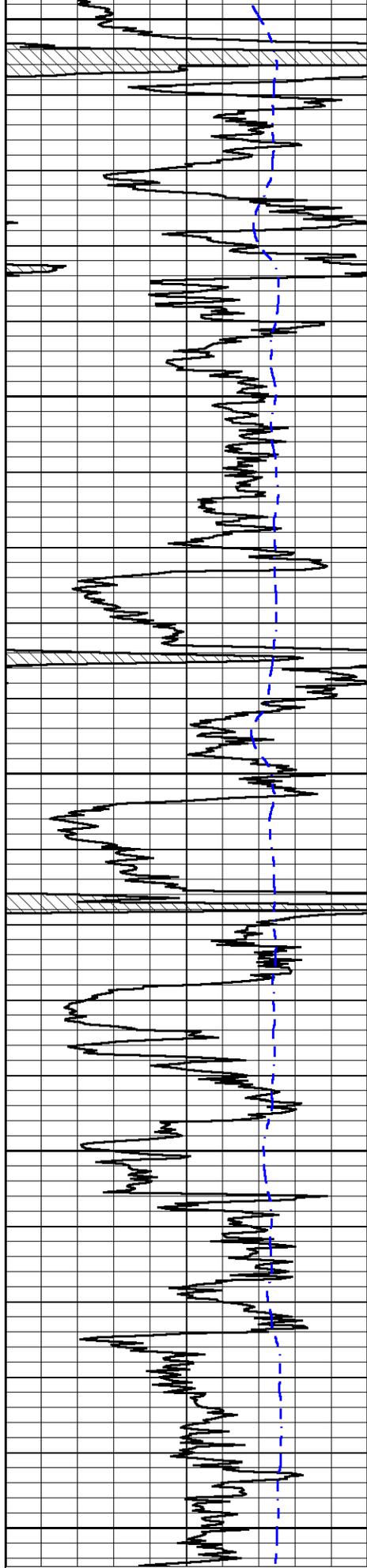
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4350

4400

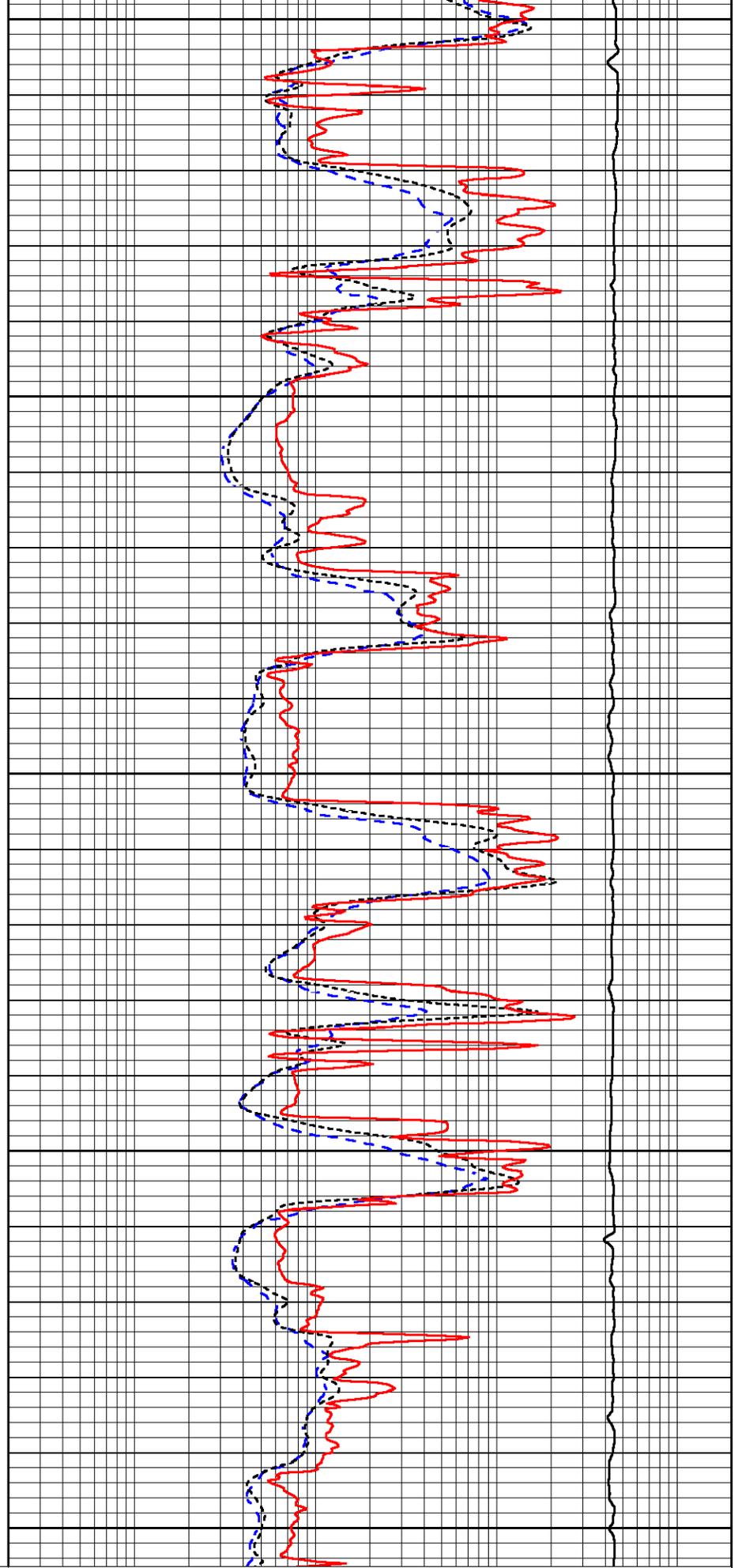
4450





4500
4550
4600
4650
4700

0 GAMMA RAY (GAPI) 150
-200 SP (mV) 0



0.2 DEEP RESISTIVITY (Ohm-m) 2000
0.2 MEDIUM RESISTIVITY (Ohm-m) 2000
0.2 RL13 (Ohm-m) 2000

0.2	FEES (Cdn/m)	2000
15000	LINE TENSION (lb)	0



Company Murfin Drilling Company, Inc.
Well Dorsch B #1-9
Field Wildcat
County Cheyenne
State Kansas