



DIGITAL LOG (785) 625-3858

Dual Induction Log

15-193-20,839-00-00

Company Murfin Drilling Co., Inc.

Well Frahm "B" #1-21

Field Wildcat

County Thomas State Kansas

Location 2309' FSL / 335' FWL

Sec: 21 Twp: 10 S Rge: 34 W

Other Services
CNL/CDL
MEL/BHCS

Permanent Datum Ground Level Elevation 3236

Log Measured From Kelly Bushing 11 Ft. Above Perm. Datum

Drilling Measured From Kelly Bushing K.B. 3247
D.F. 3236
G.L. 3236

Date 4/29/2012

Run Number One

Depth Driller 4900

Depth Logger 4908

Bottom Logged Interval 4907

Top Log Interval 0

Casing Driller 8.625 @ 269

Casing Logger 266

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 10,500

Density / Viscosity 9.1 64

pH / Fluid Loss 11.0 6.8

Source of Sample Flowline

Rm @ Meas. Temp 0.30 @ 64

Rmf @ Meas. Temp 0.23 @ 64

Rmc @ Meas. Temp 0.41 @ 64

Source of Rmf / Rmc Charts

Rm @ BHT 0.15 @ 125

Operating Rig Time 5 Hours

Max Rec. Temp. F 125

Equipment Number 15

Location Hays

Recorded By R. Barnhart

Witnessed By Charlie Sturdavant

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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.

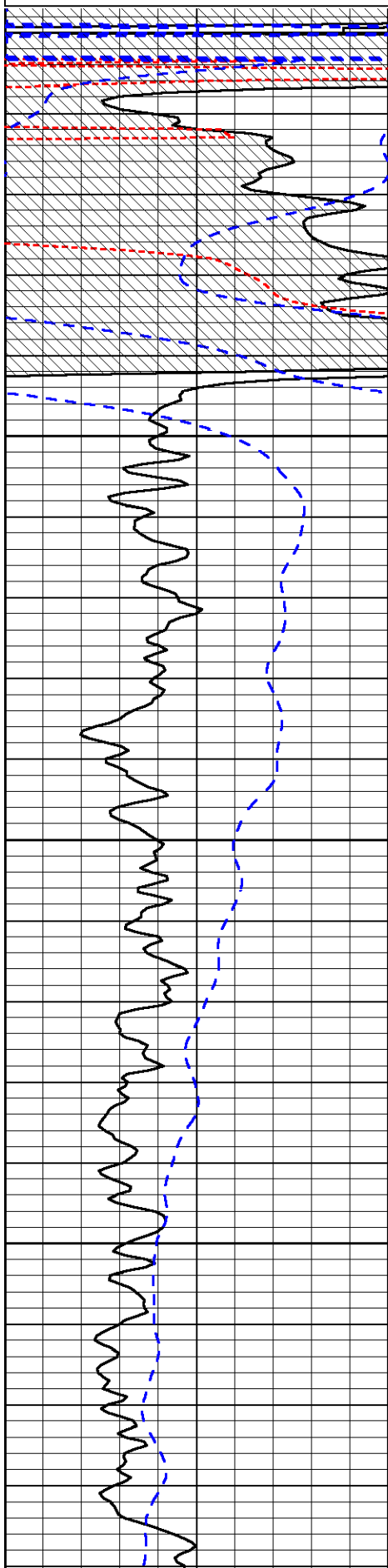
Comments

Thank you for using Log-Tech, Inc.
(785) 625-3858

Monument, KS:
N on Hwy 25 to Rd. D,
4W, 1/2S, E into

Database File: murfinhd.db
Dataset Pathname: dil/murmain
Presentation Format: dil
Dataset Creation: Sun Apr 29 10:21:27 2012
Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150
-160	RXO/RT	40
-200	SP	0



0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
10000	Line Tension	0

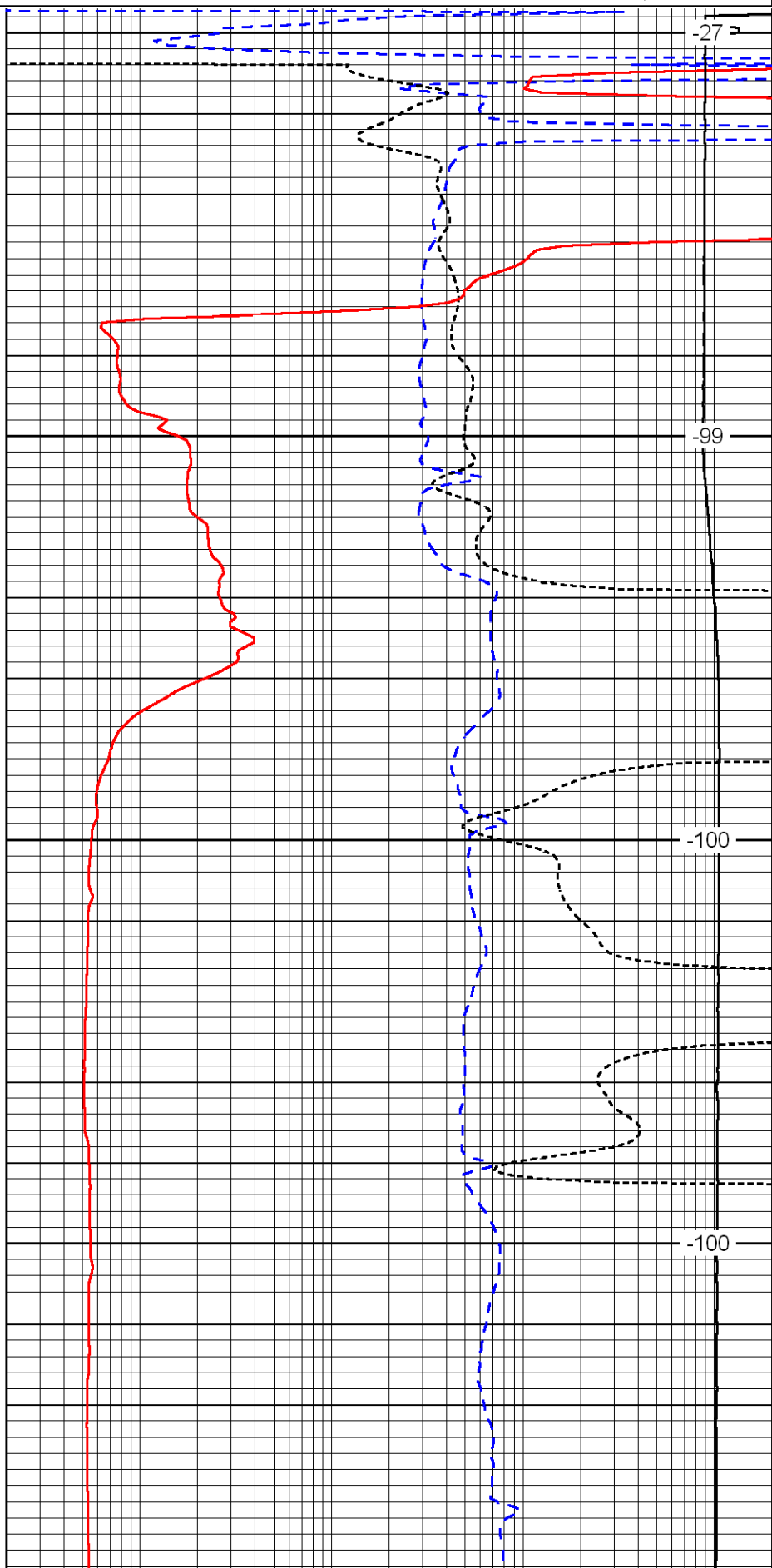
LSPD

0

50

100

150

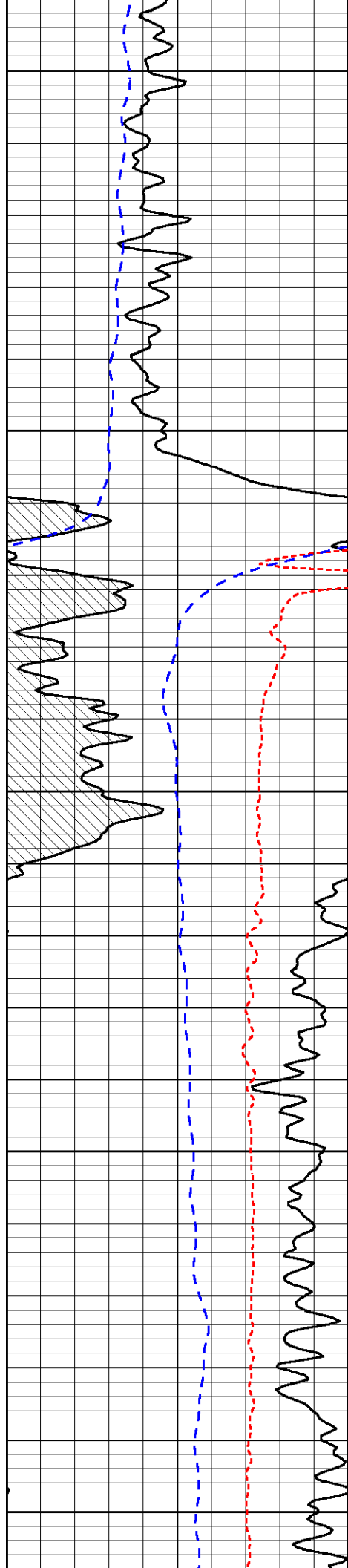


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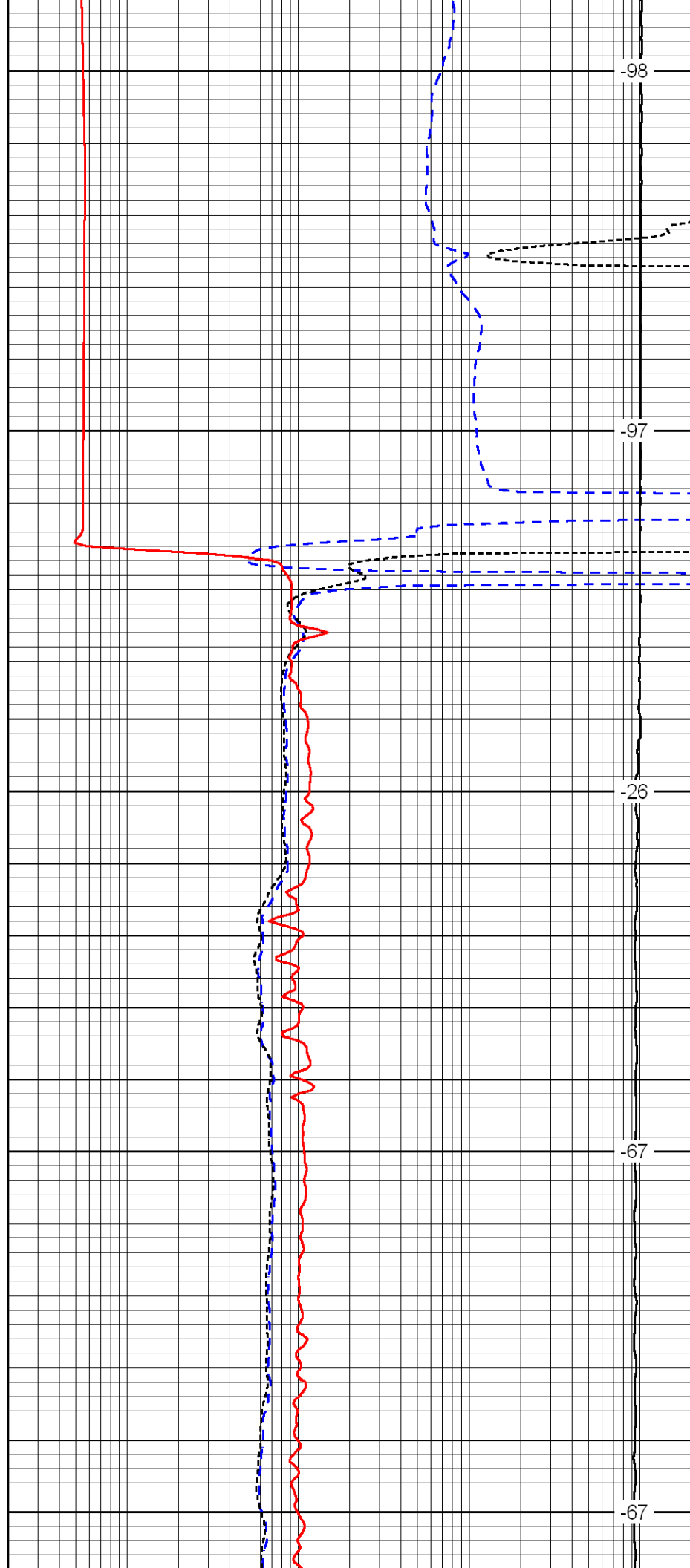
200

250

300

350

400



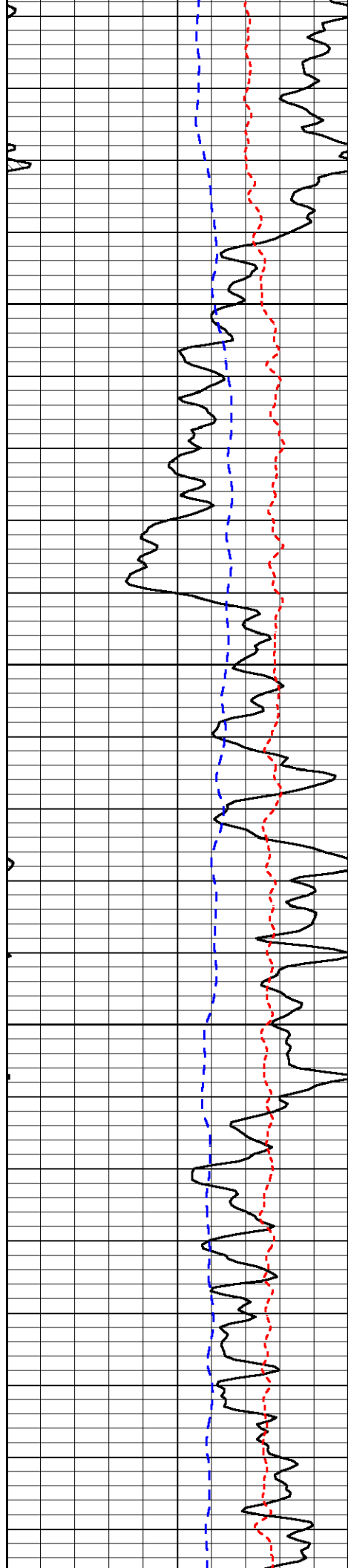
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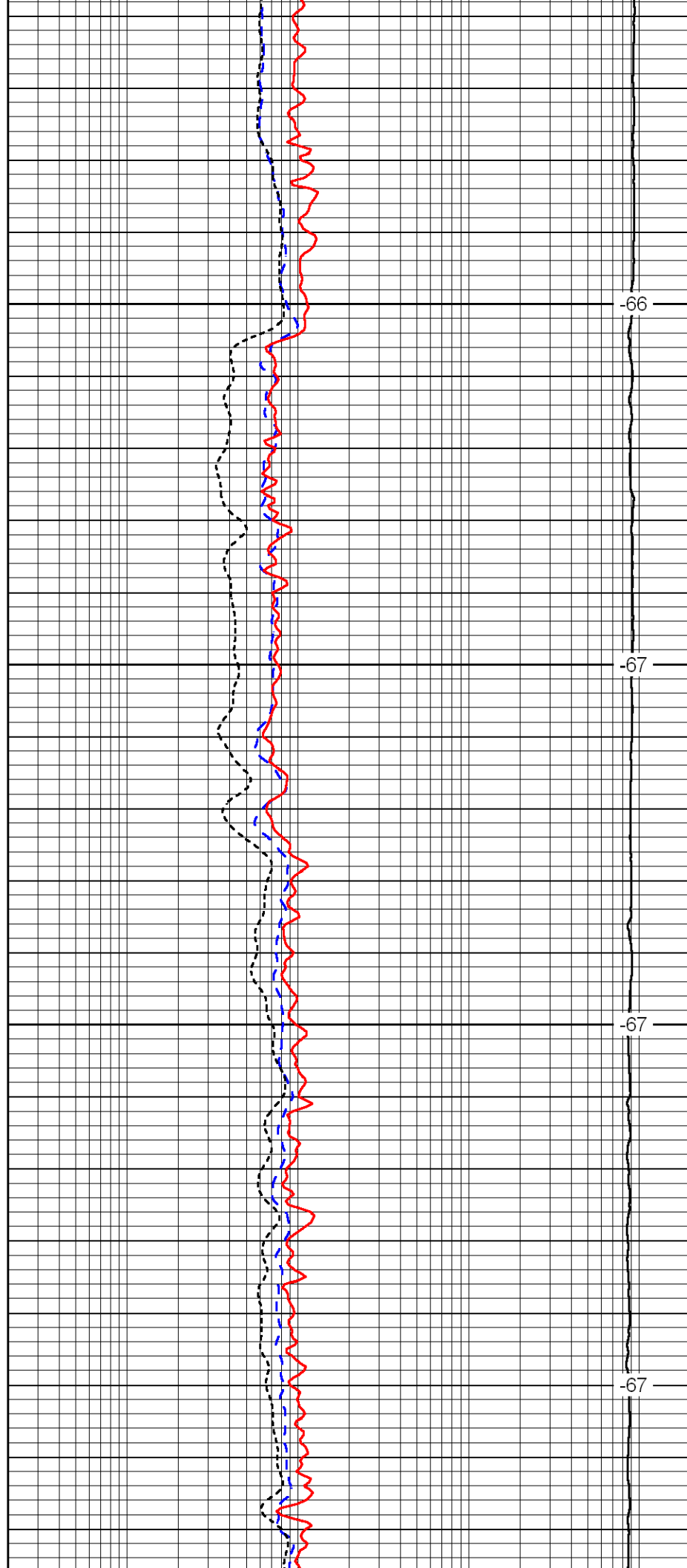


450

500

550

600

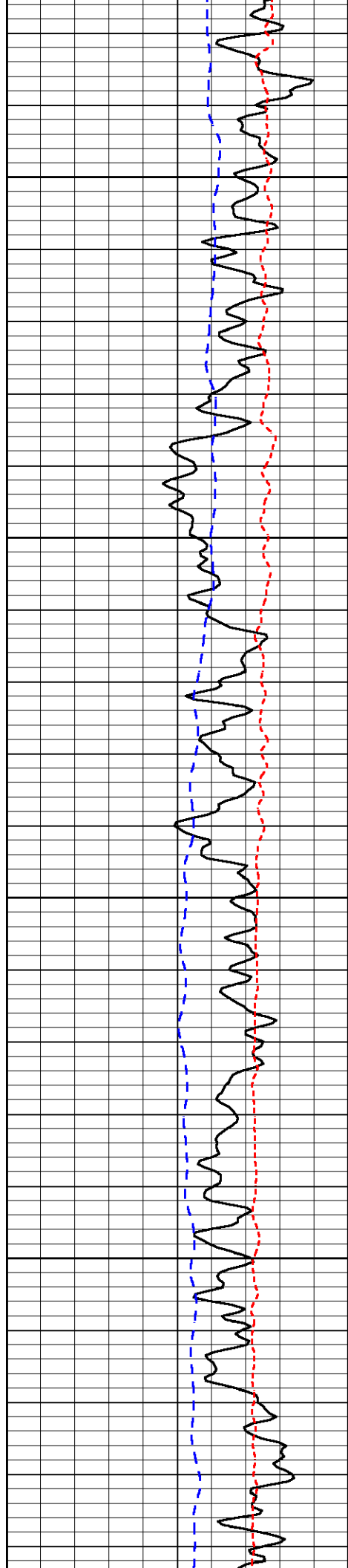


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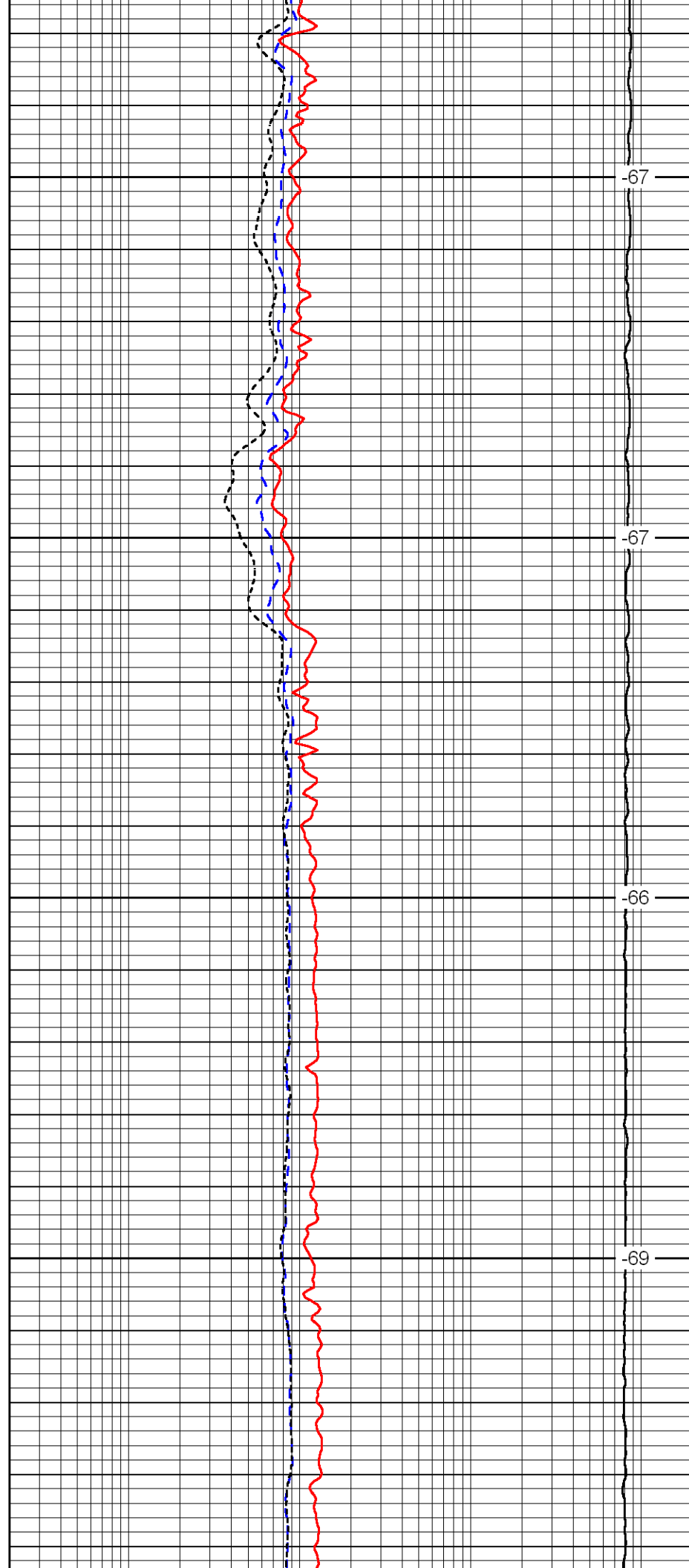


650

700

750

800

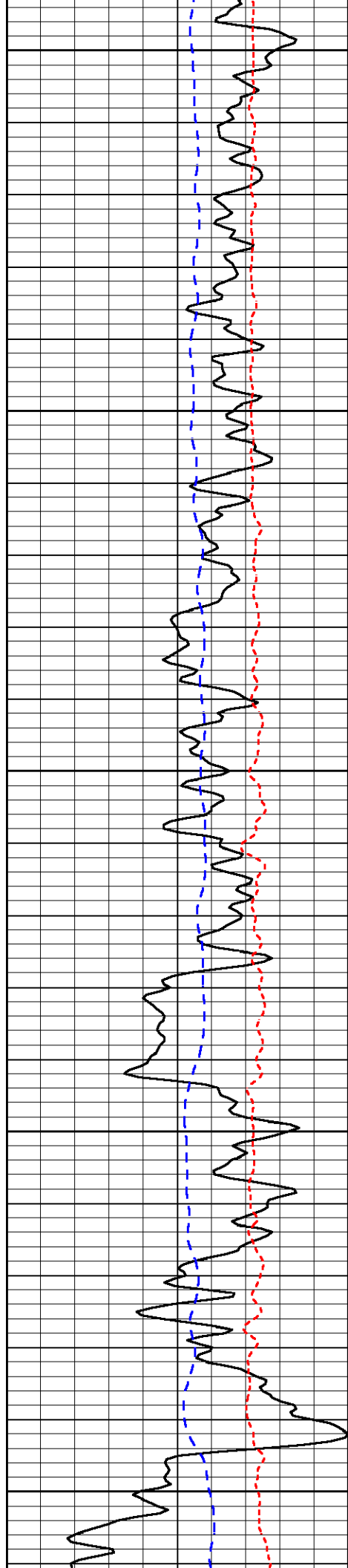


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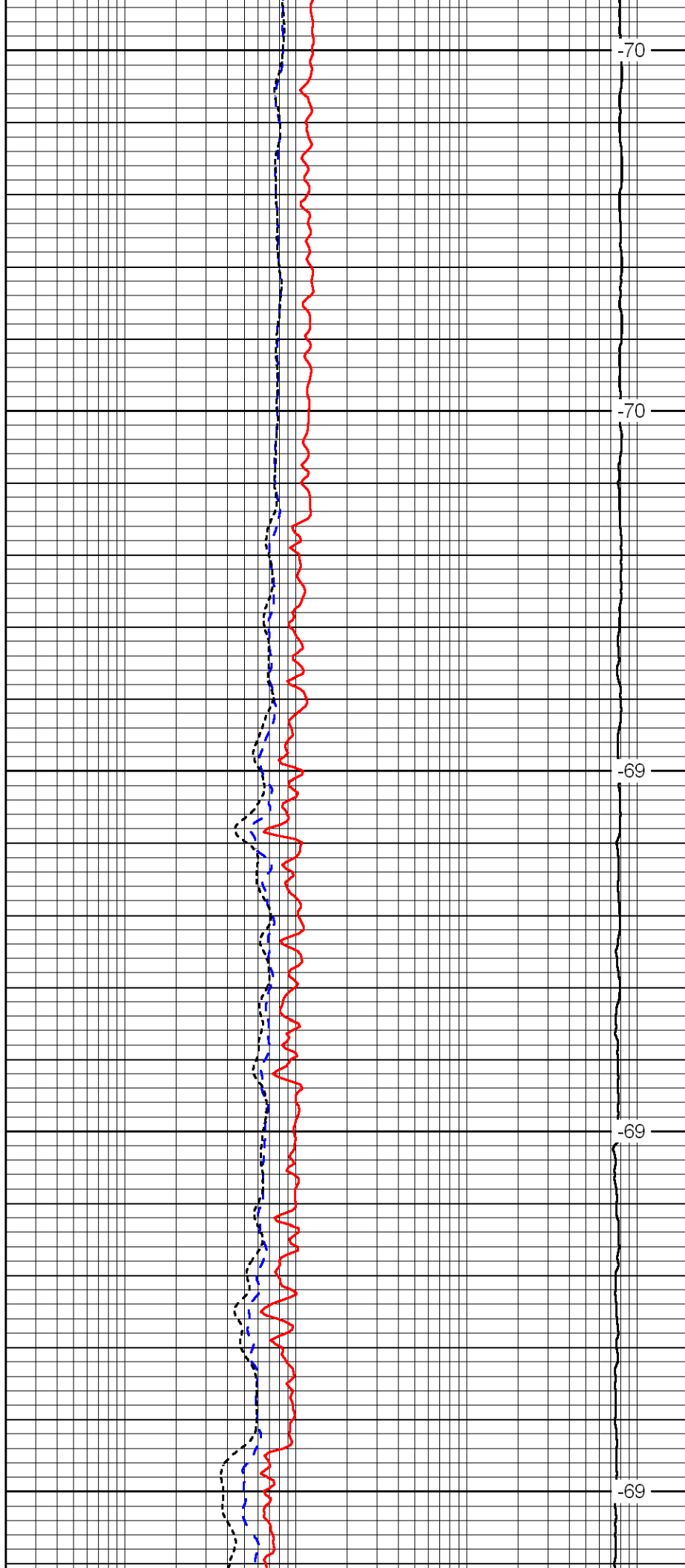
850

900

950

1000

1050



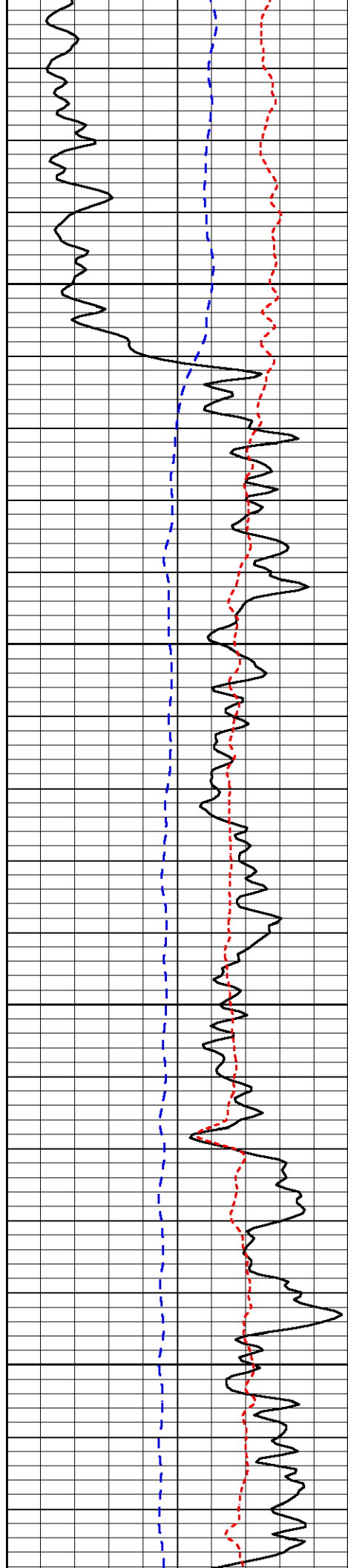
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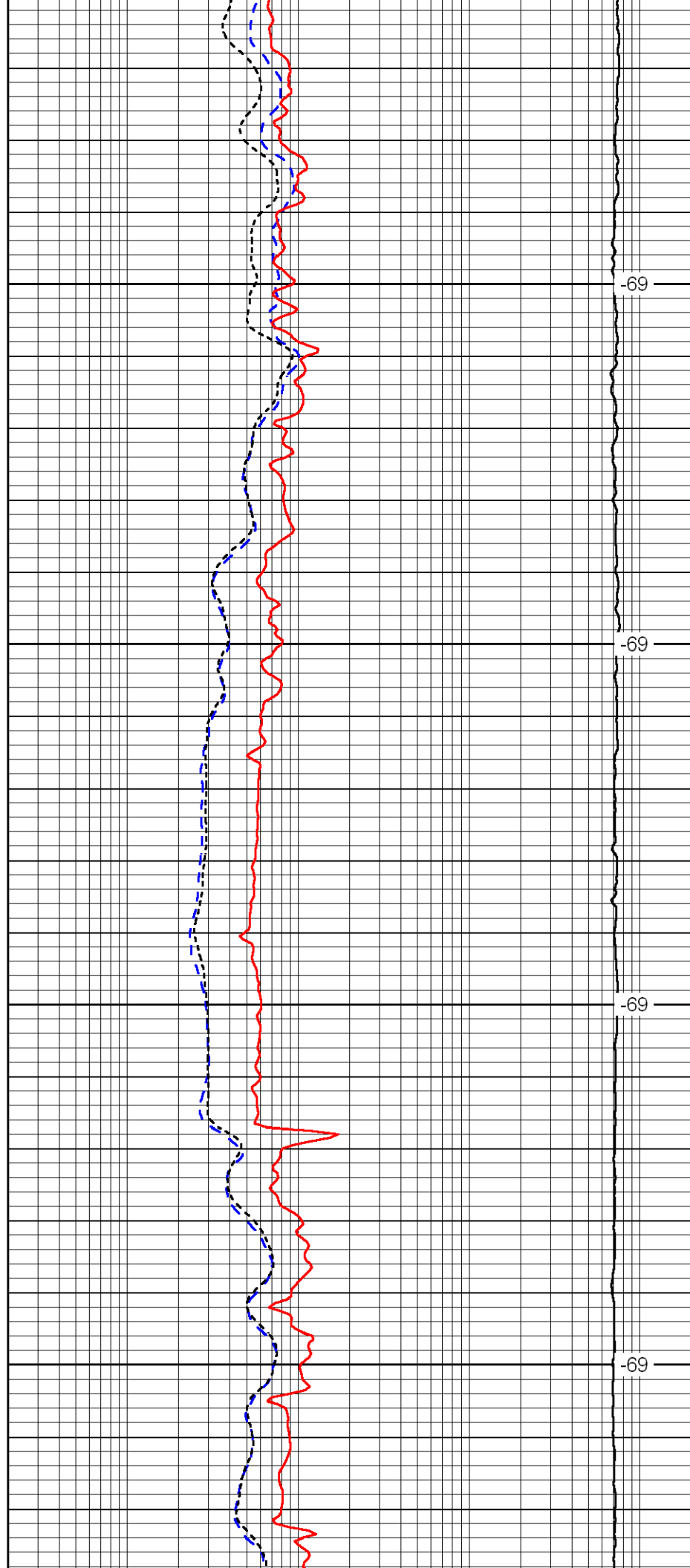


1100

1150

1200

1250

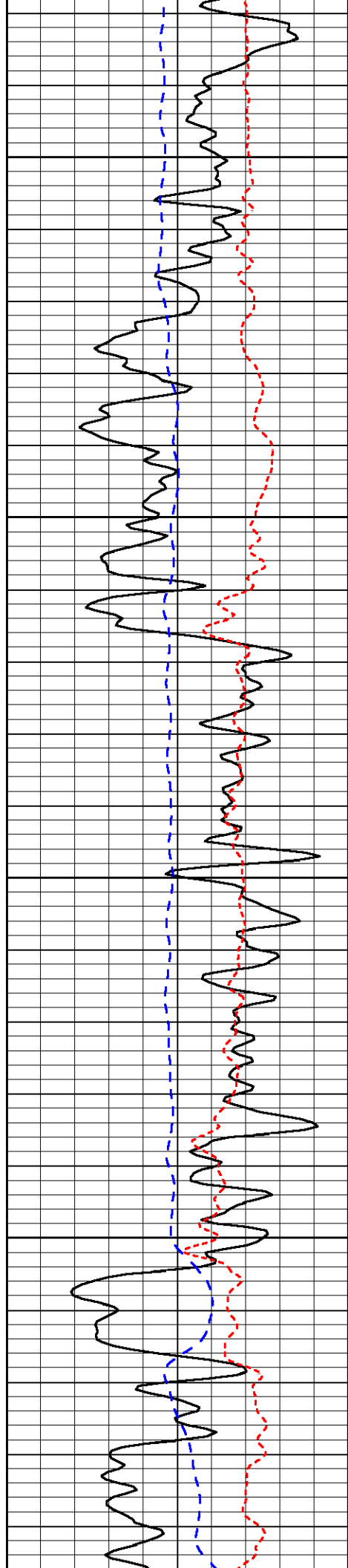


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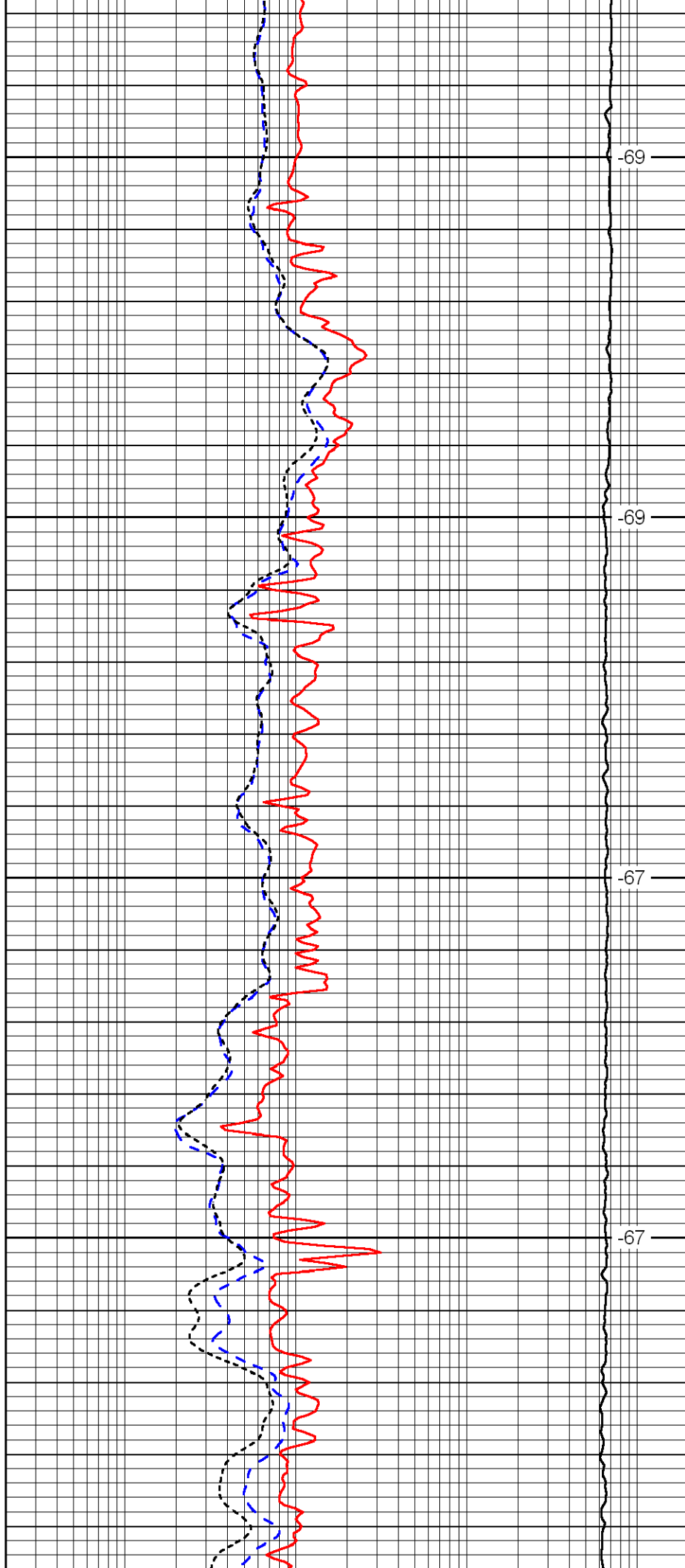


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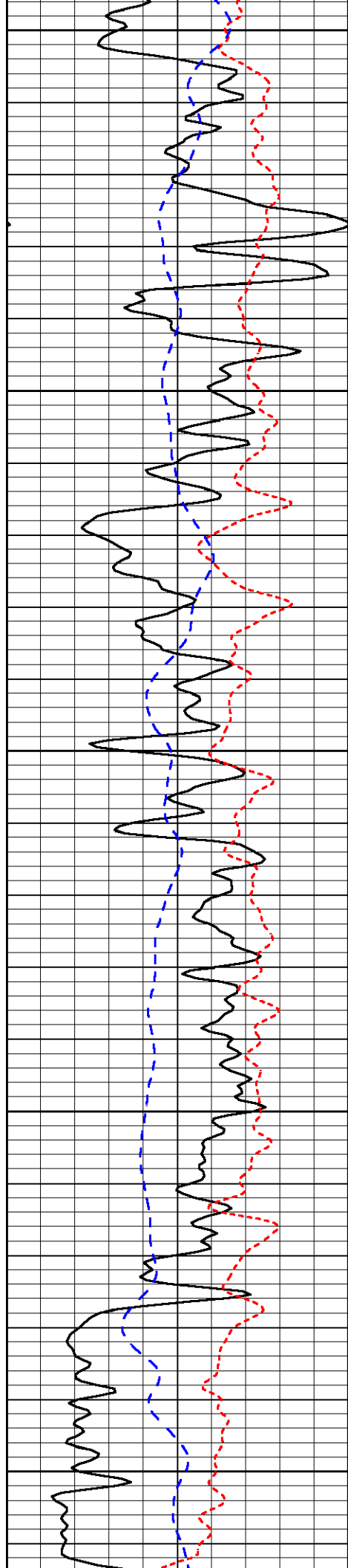


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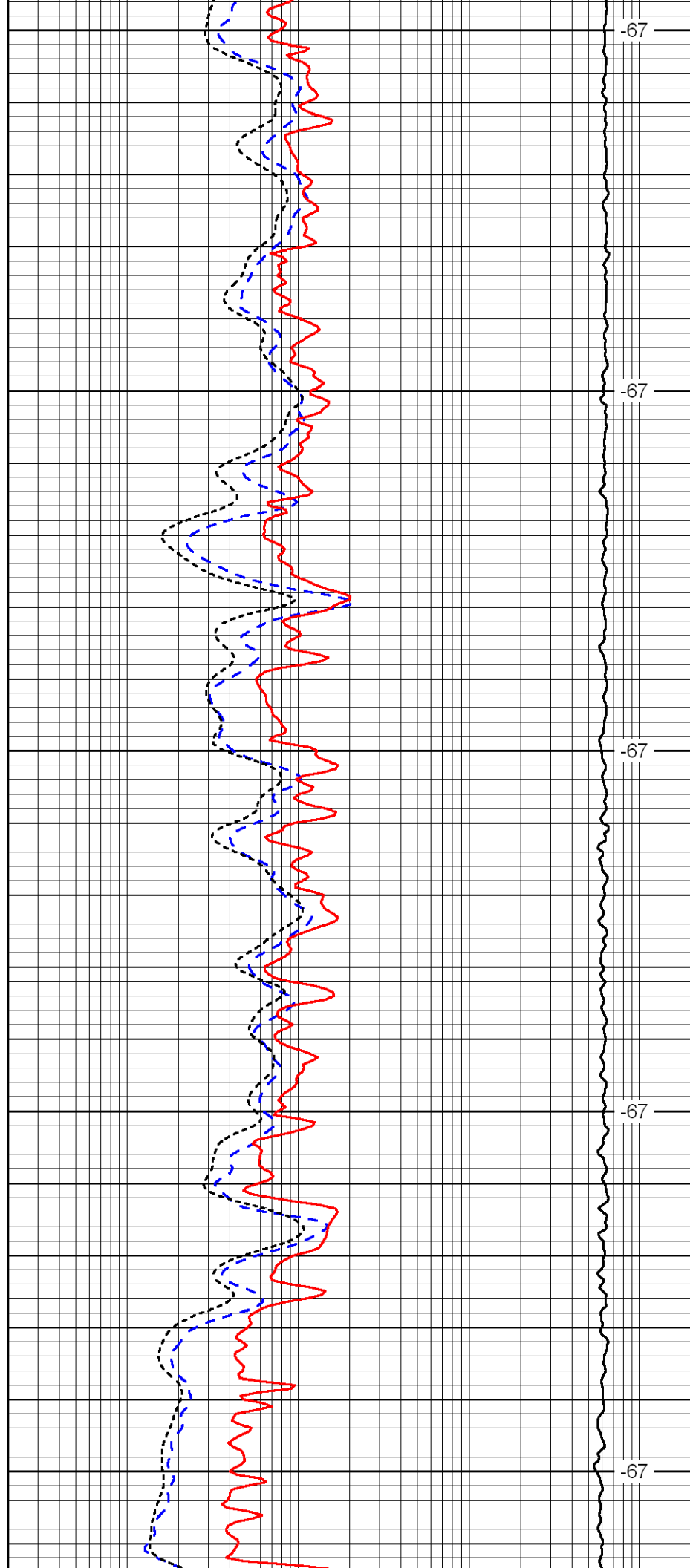
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1700



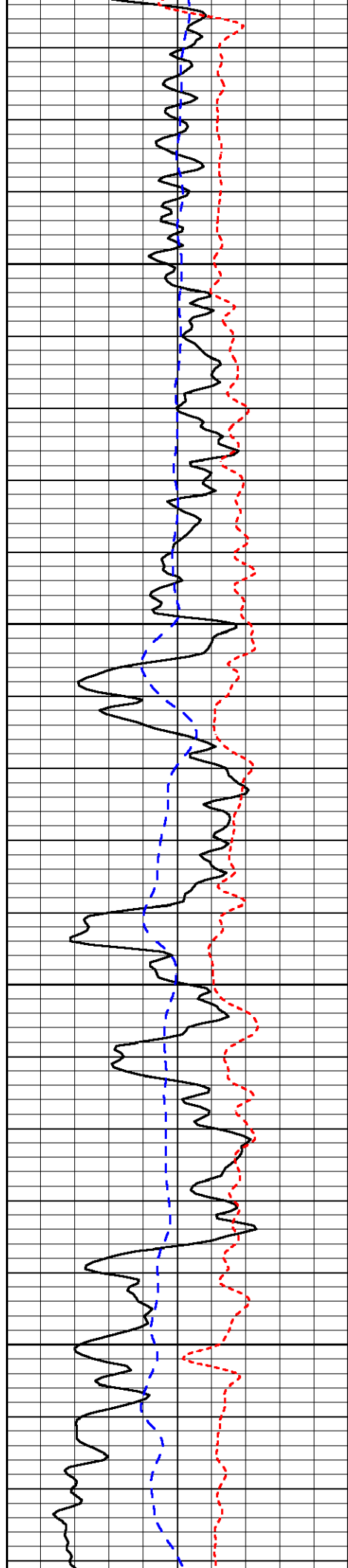
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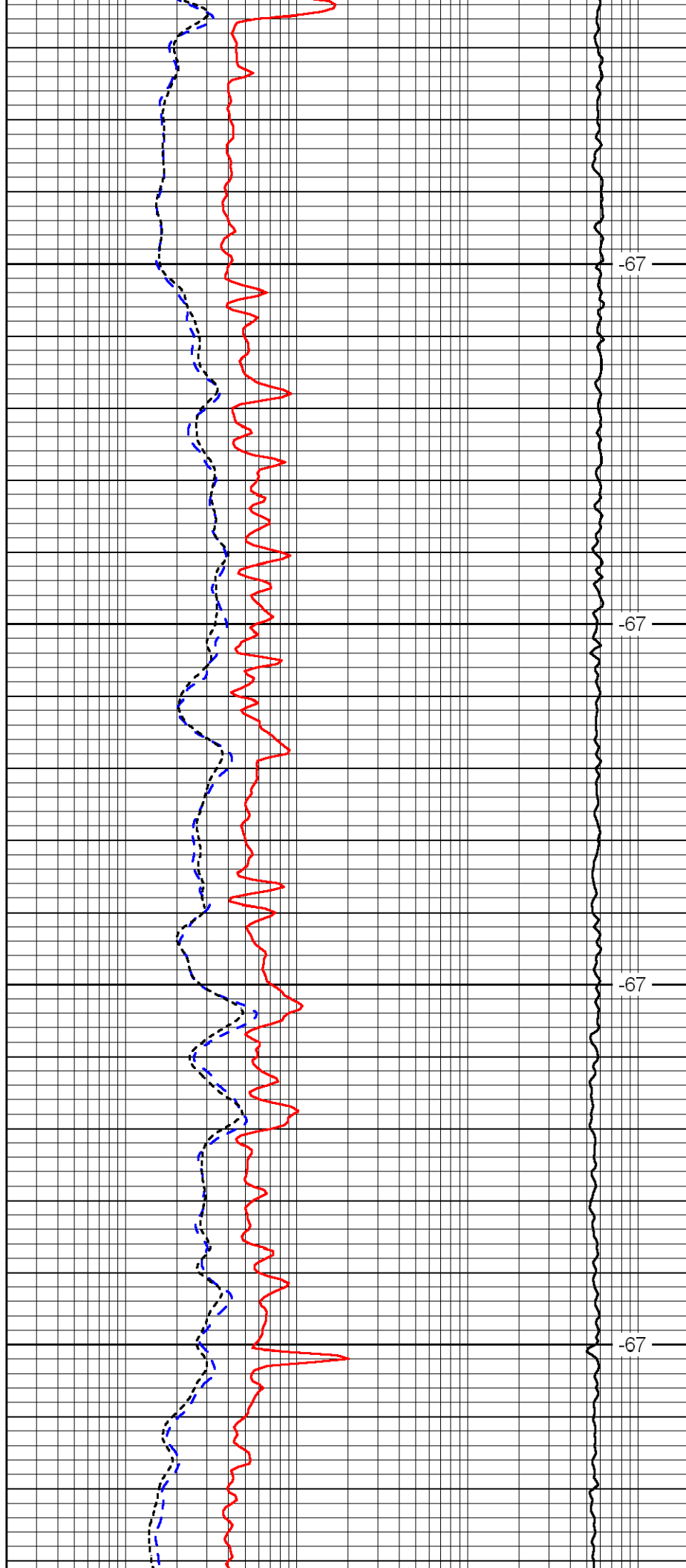


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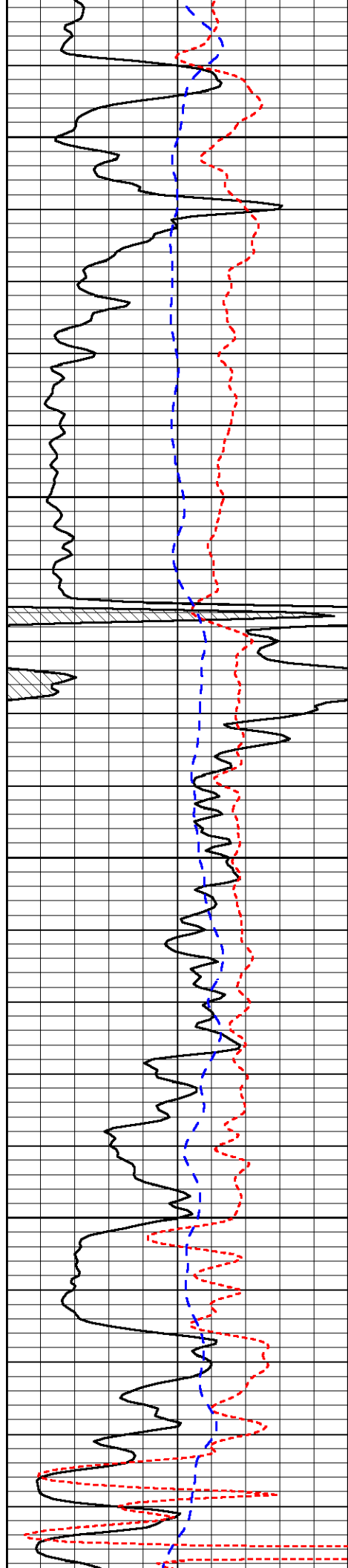


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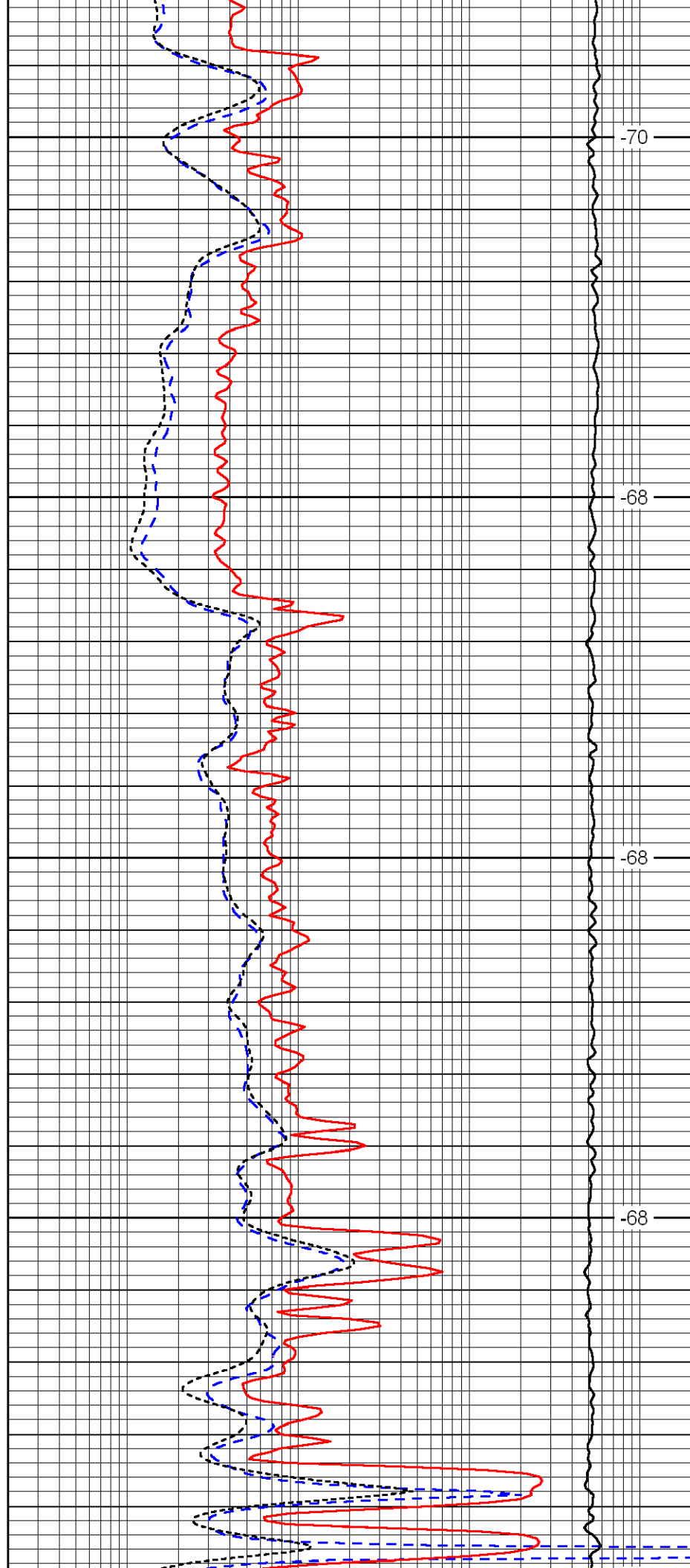


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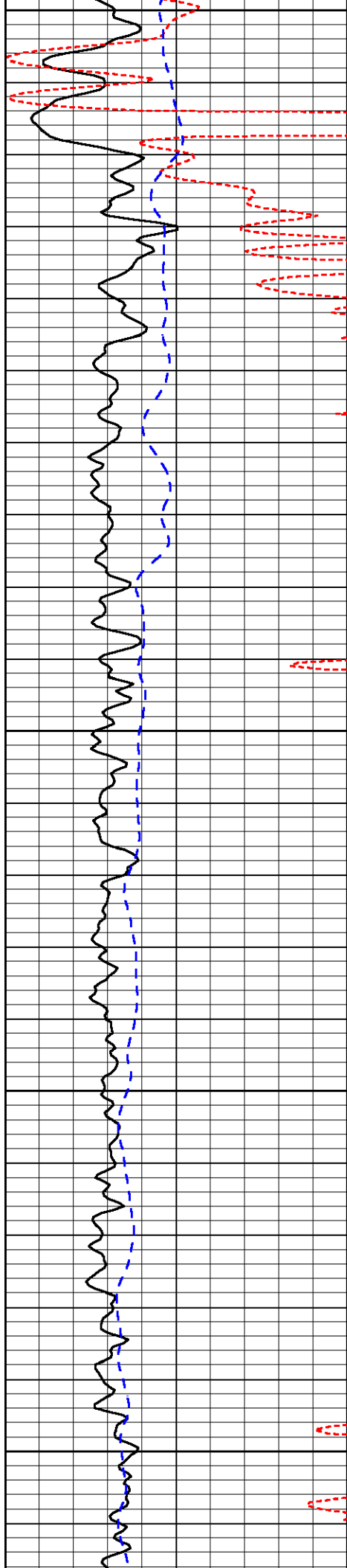


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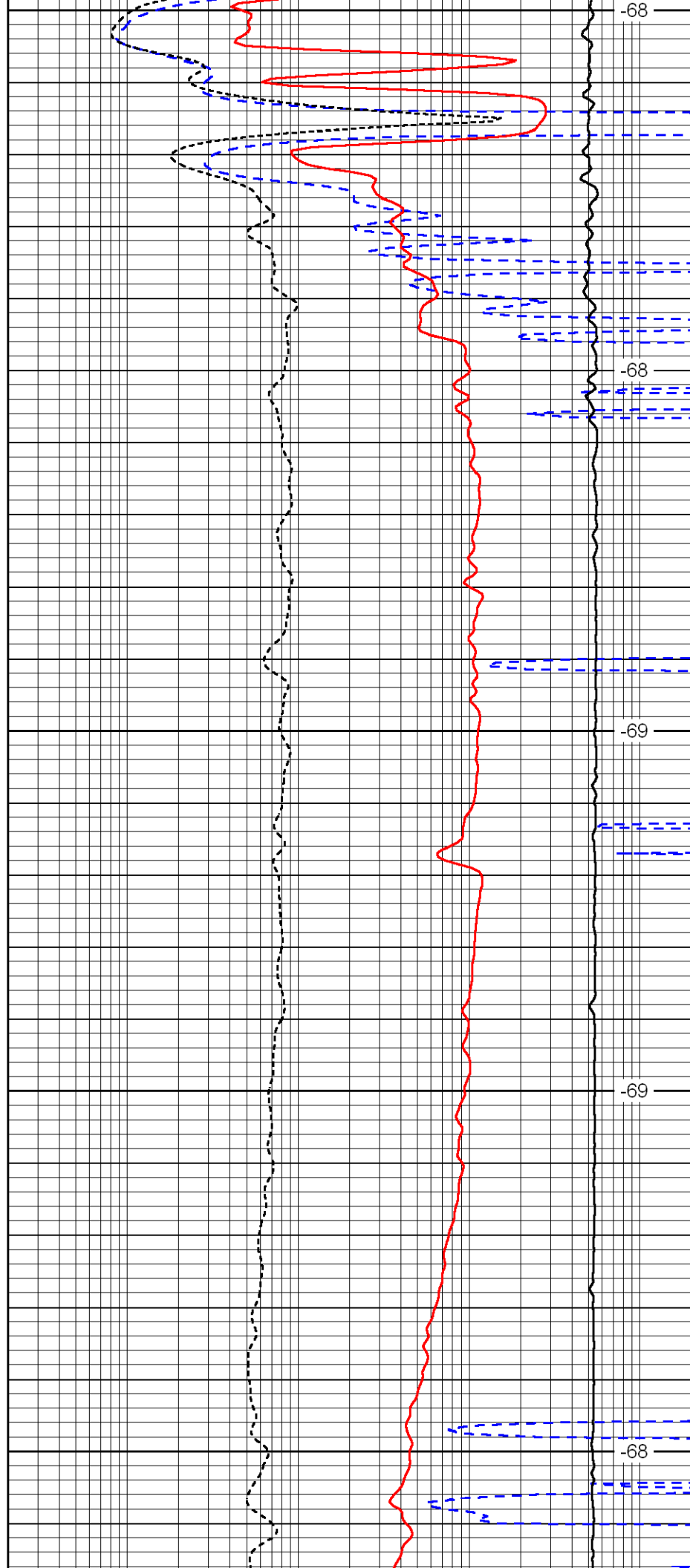
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2250

2300

2350



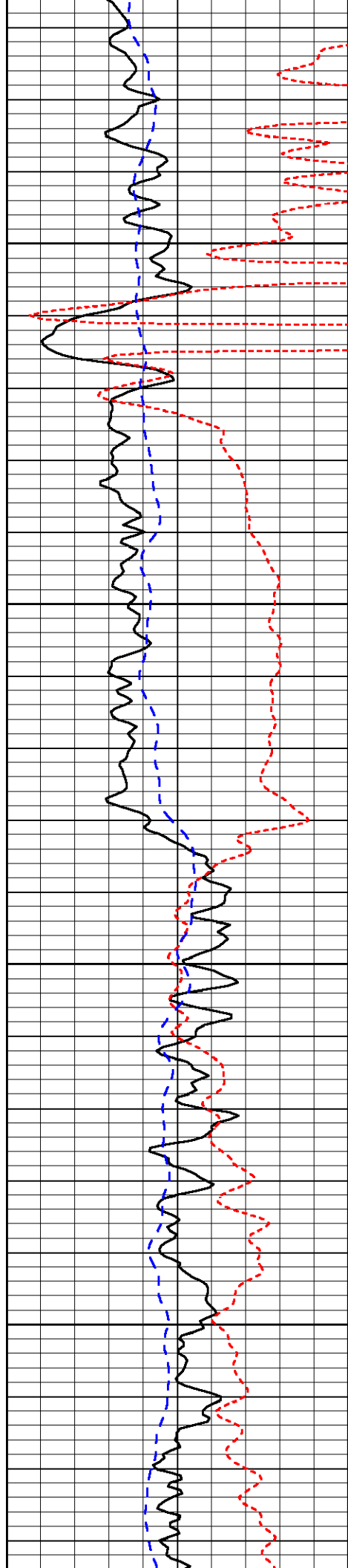
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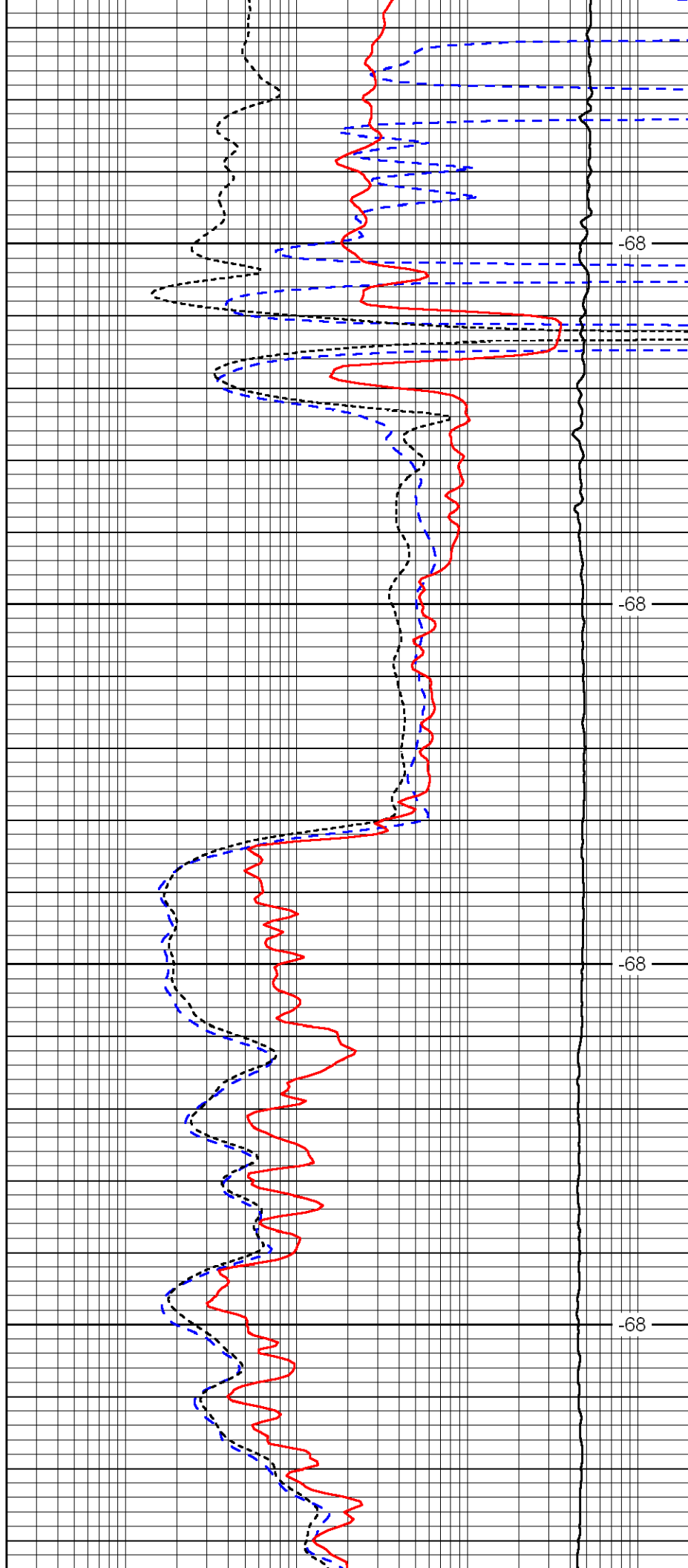


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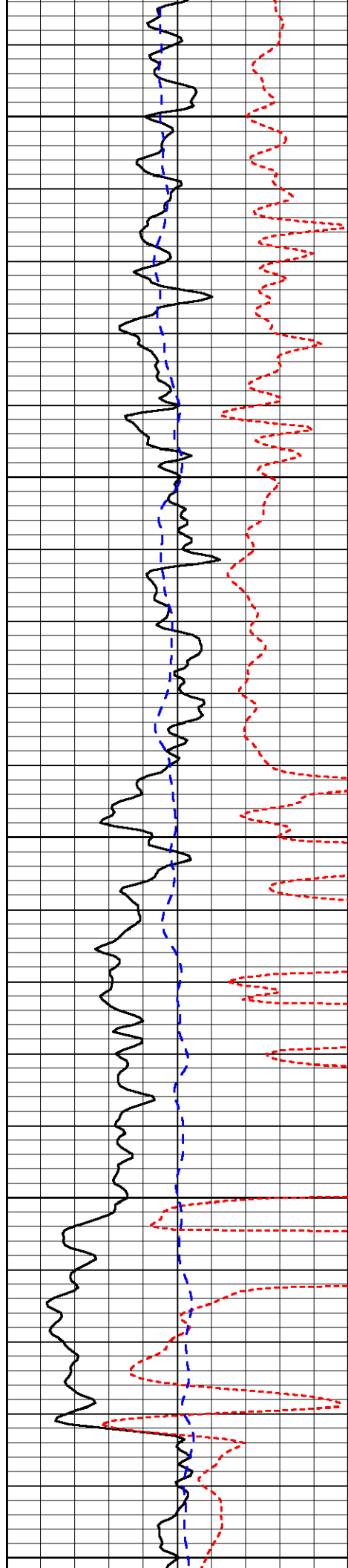


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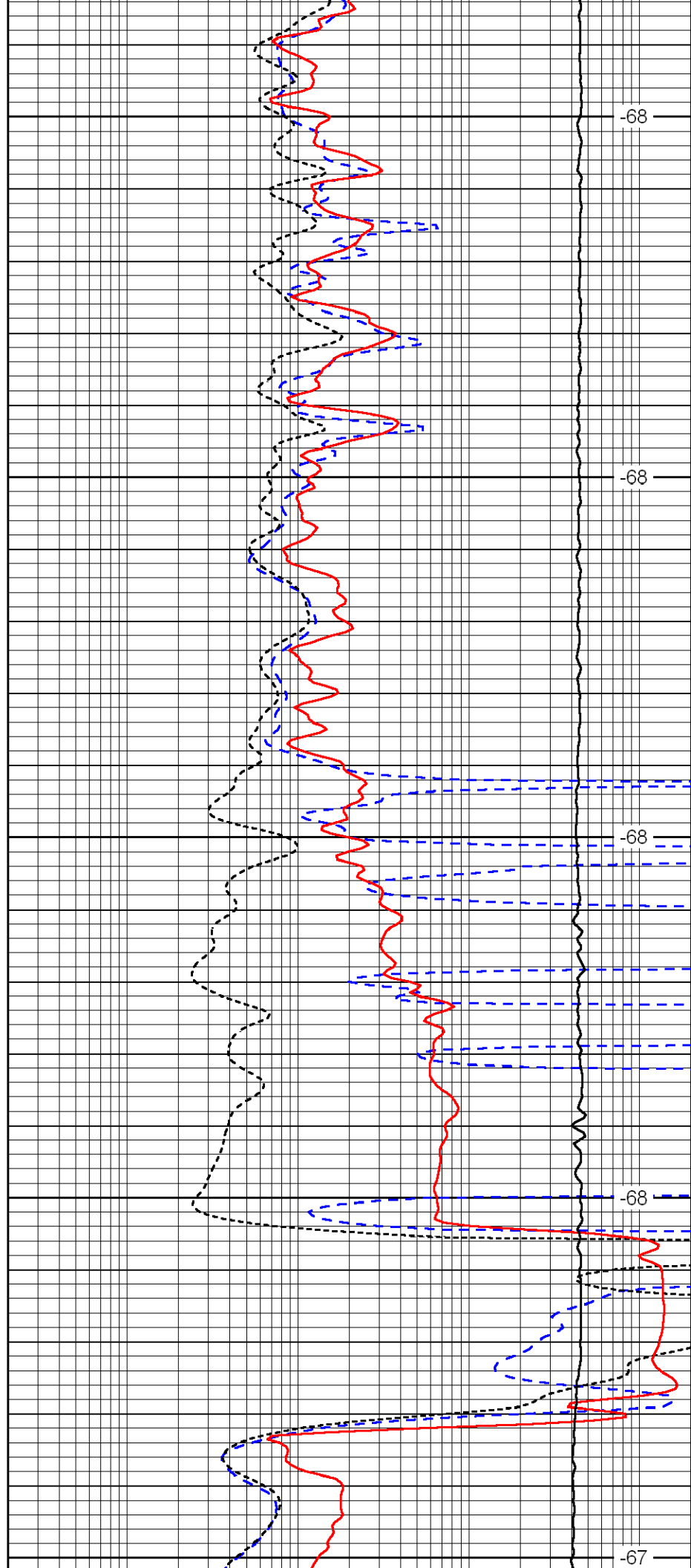
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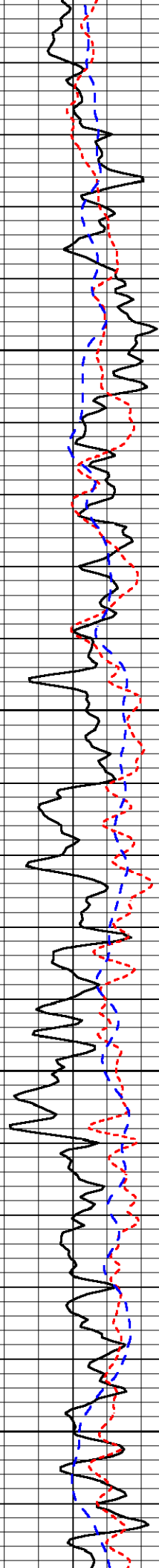
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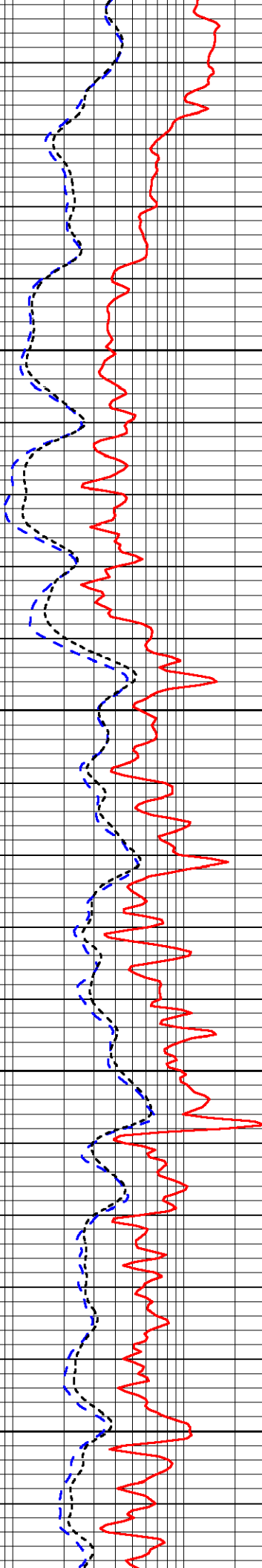


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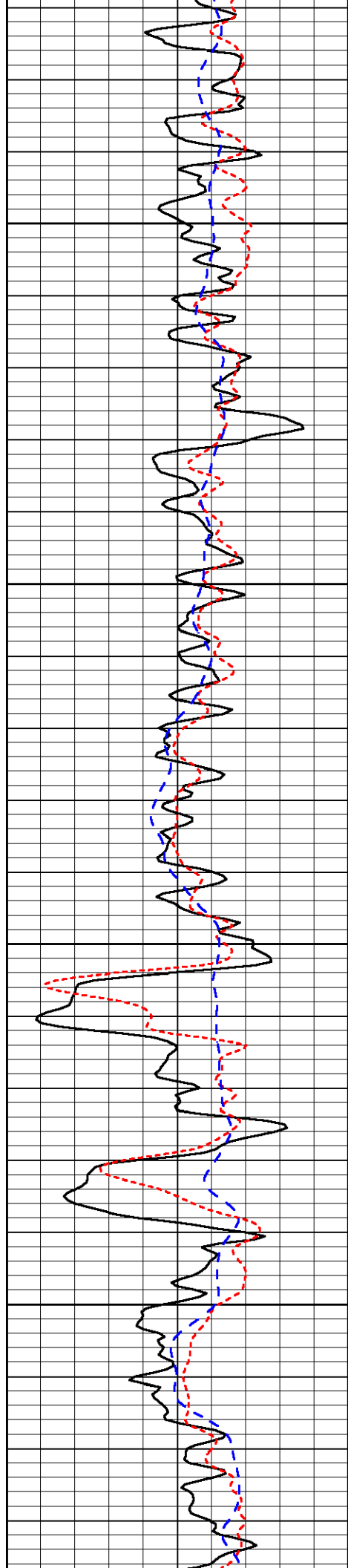


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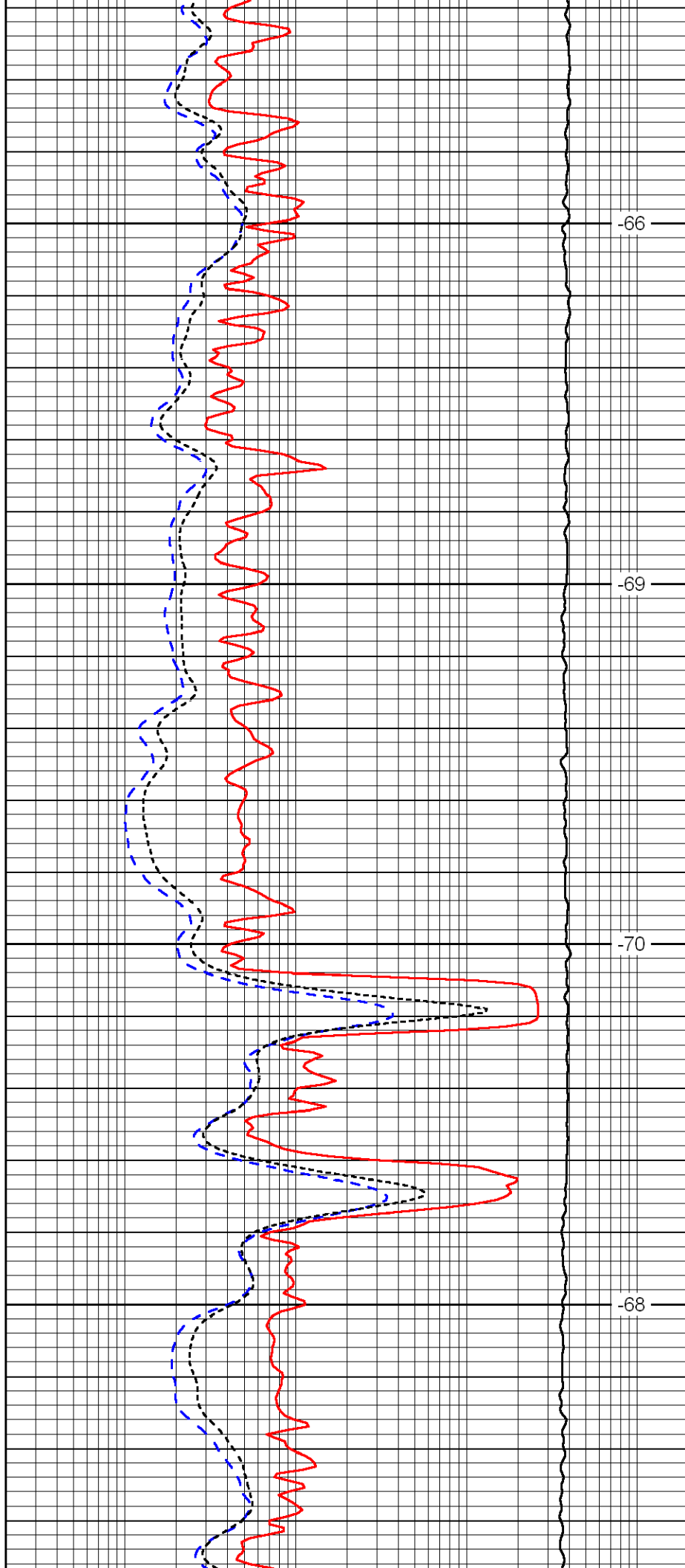


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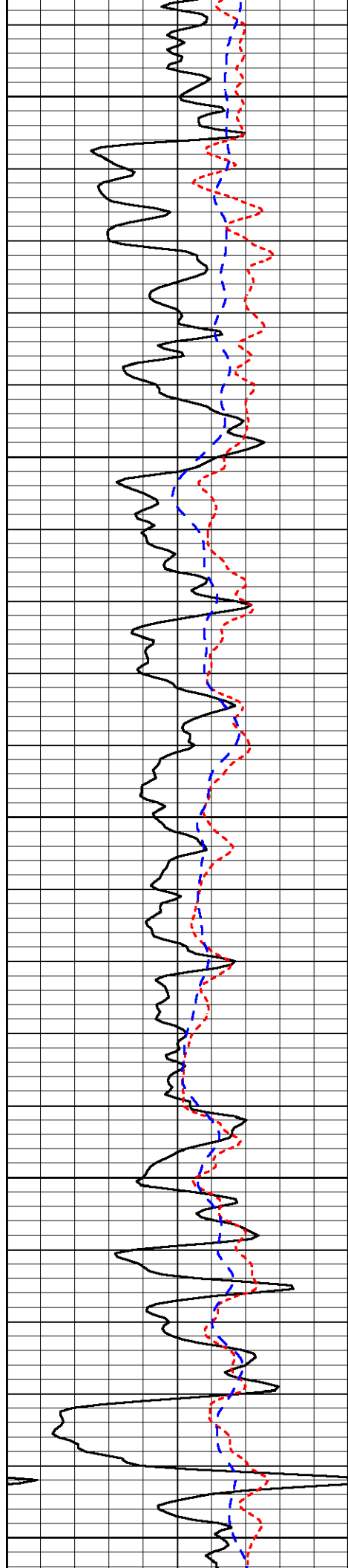


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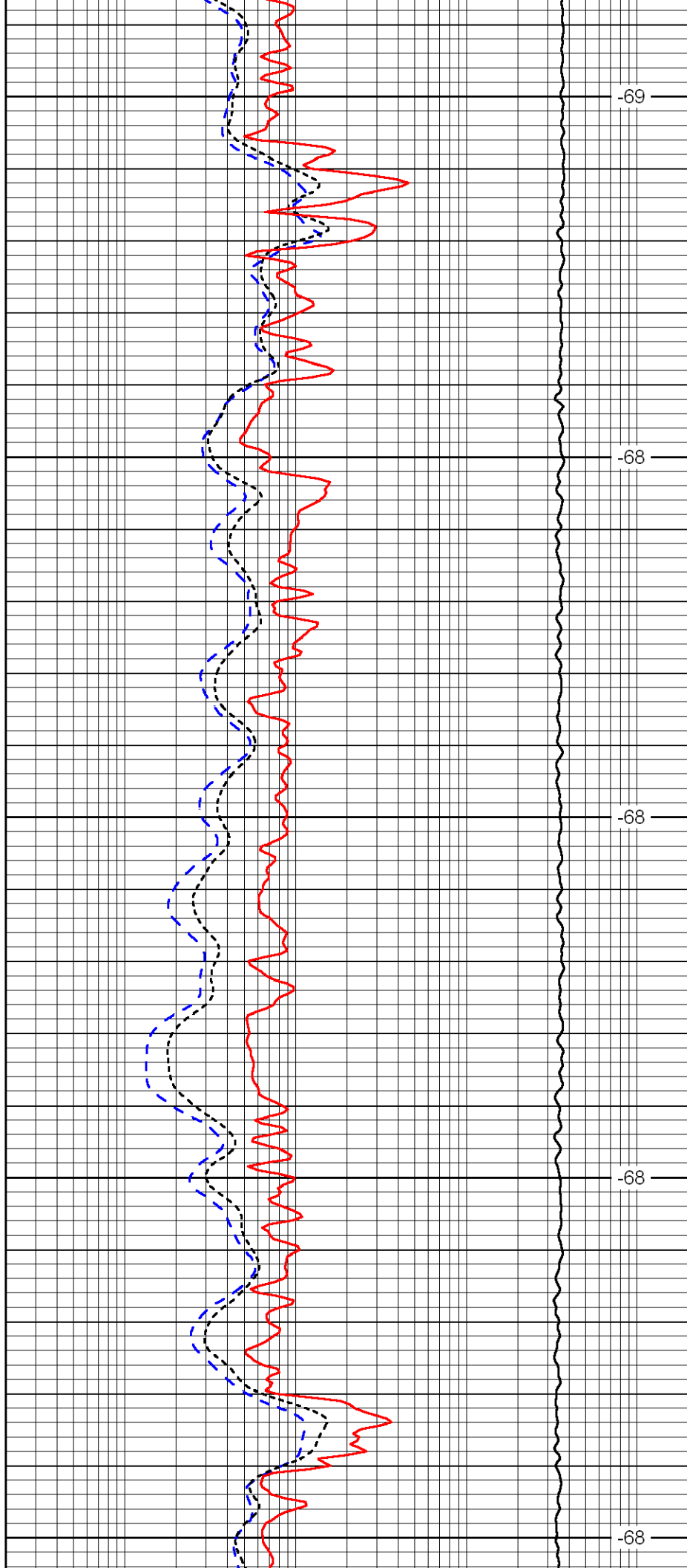
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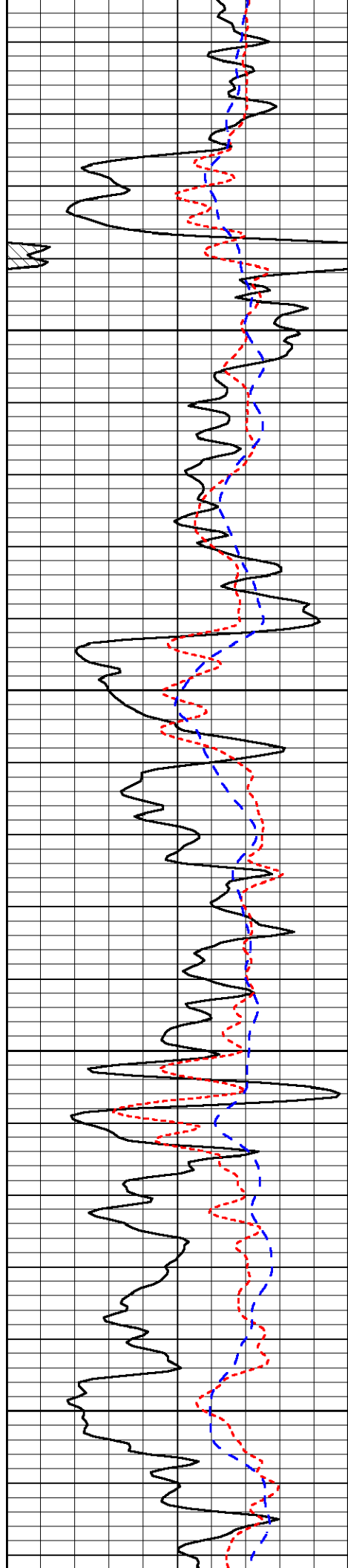
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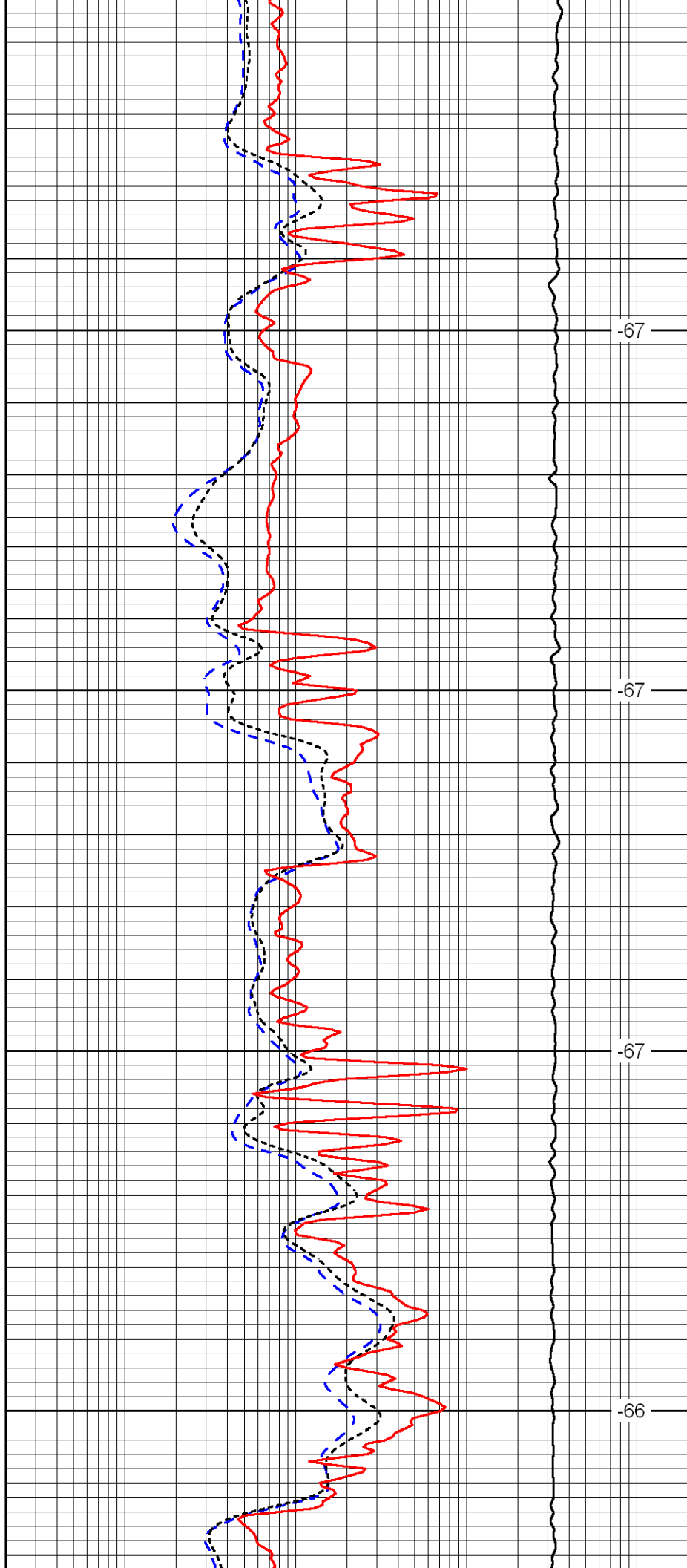


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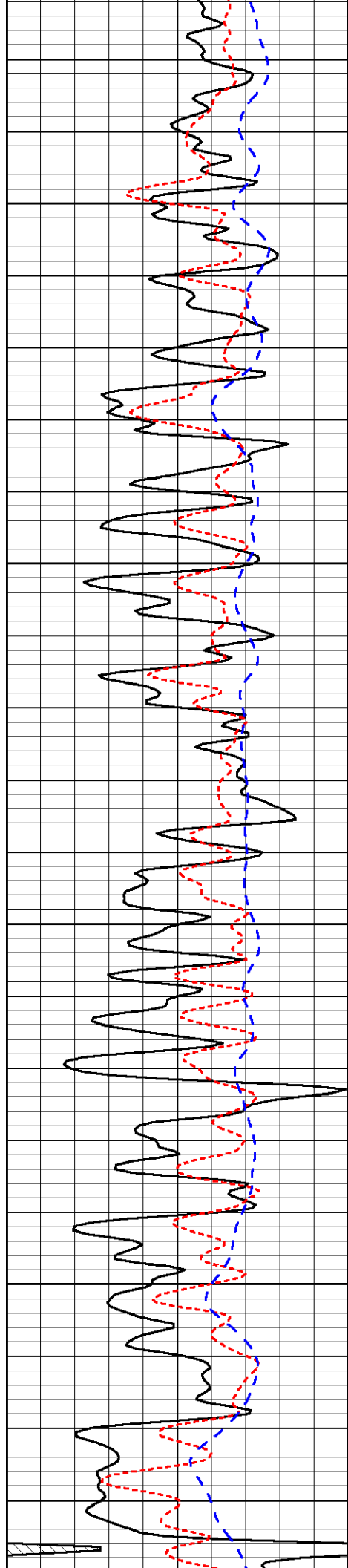


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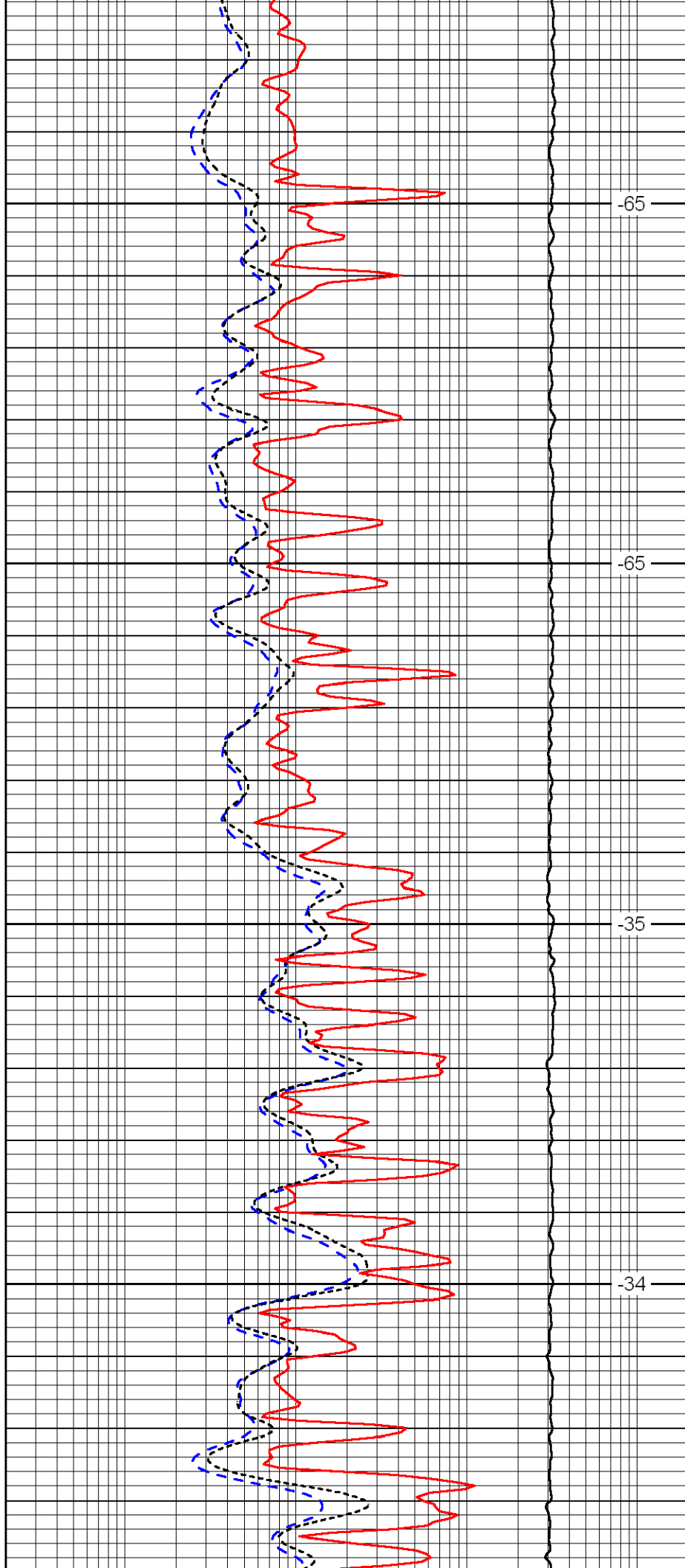


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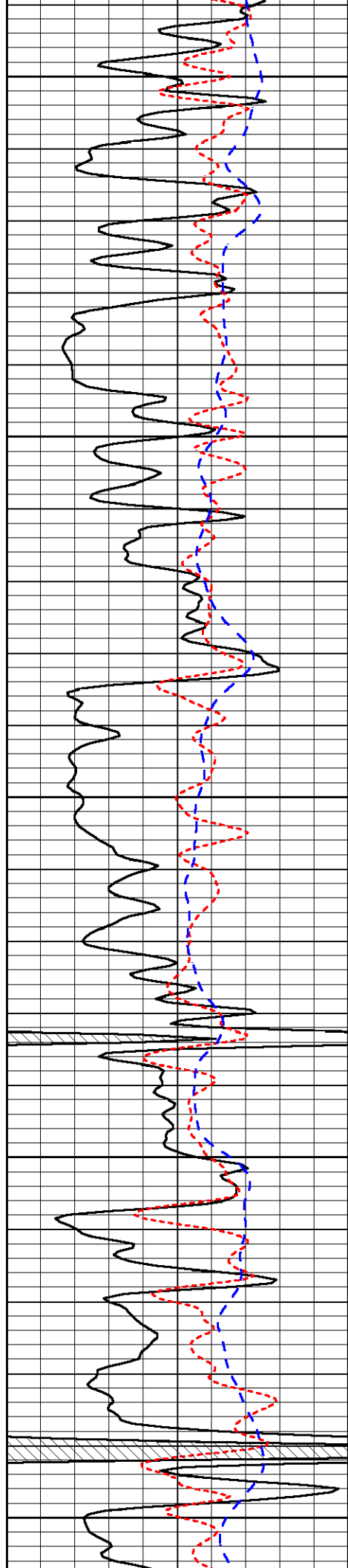


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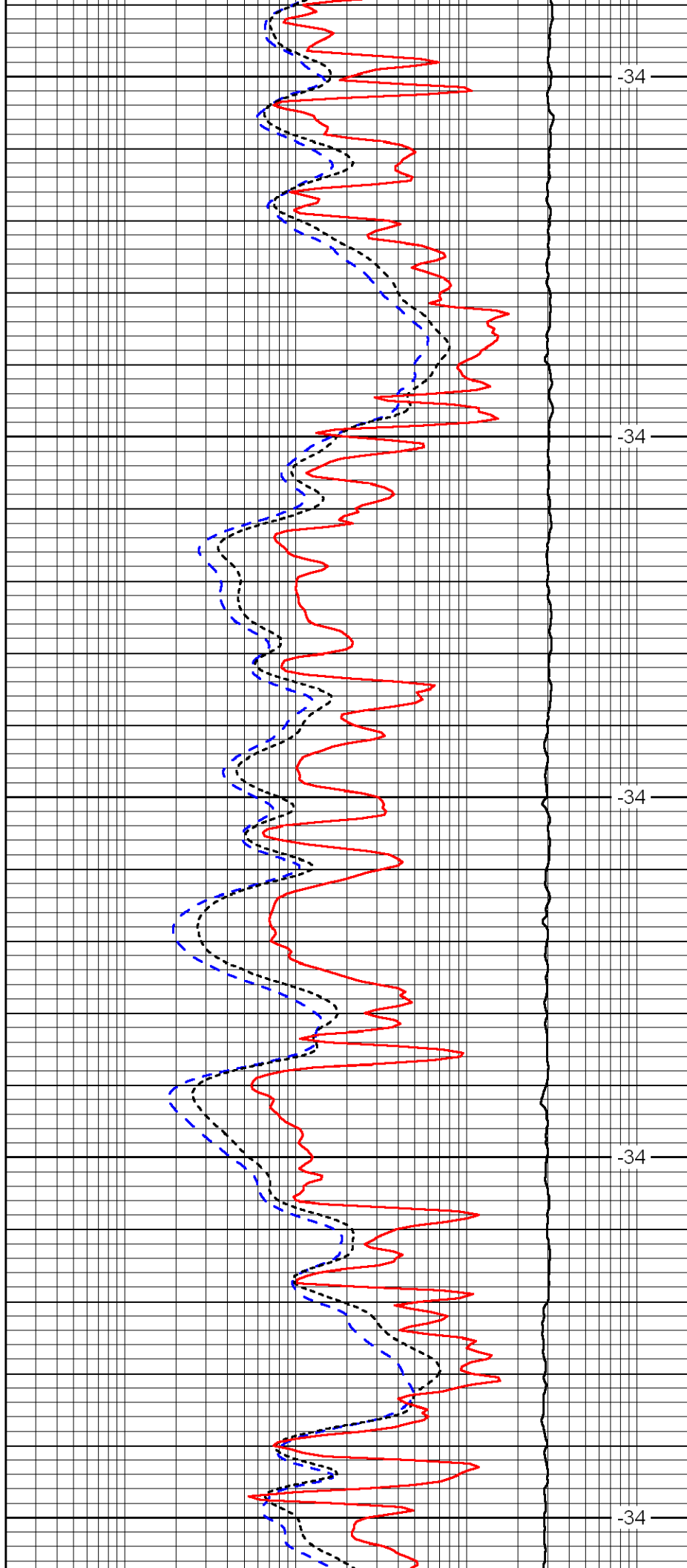
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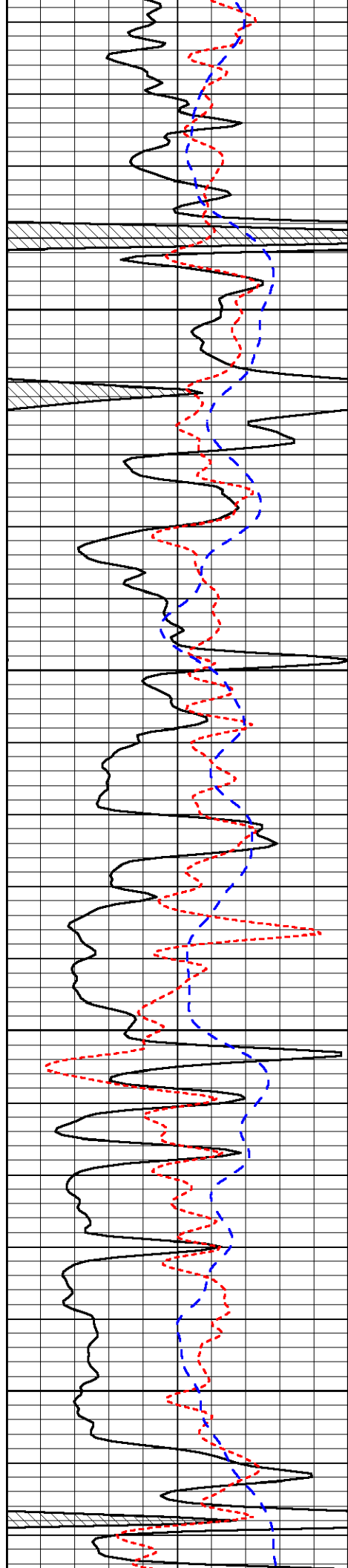
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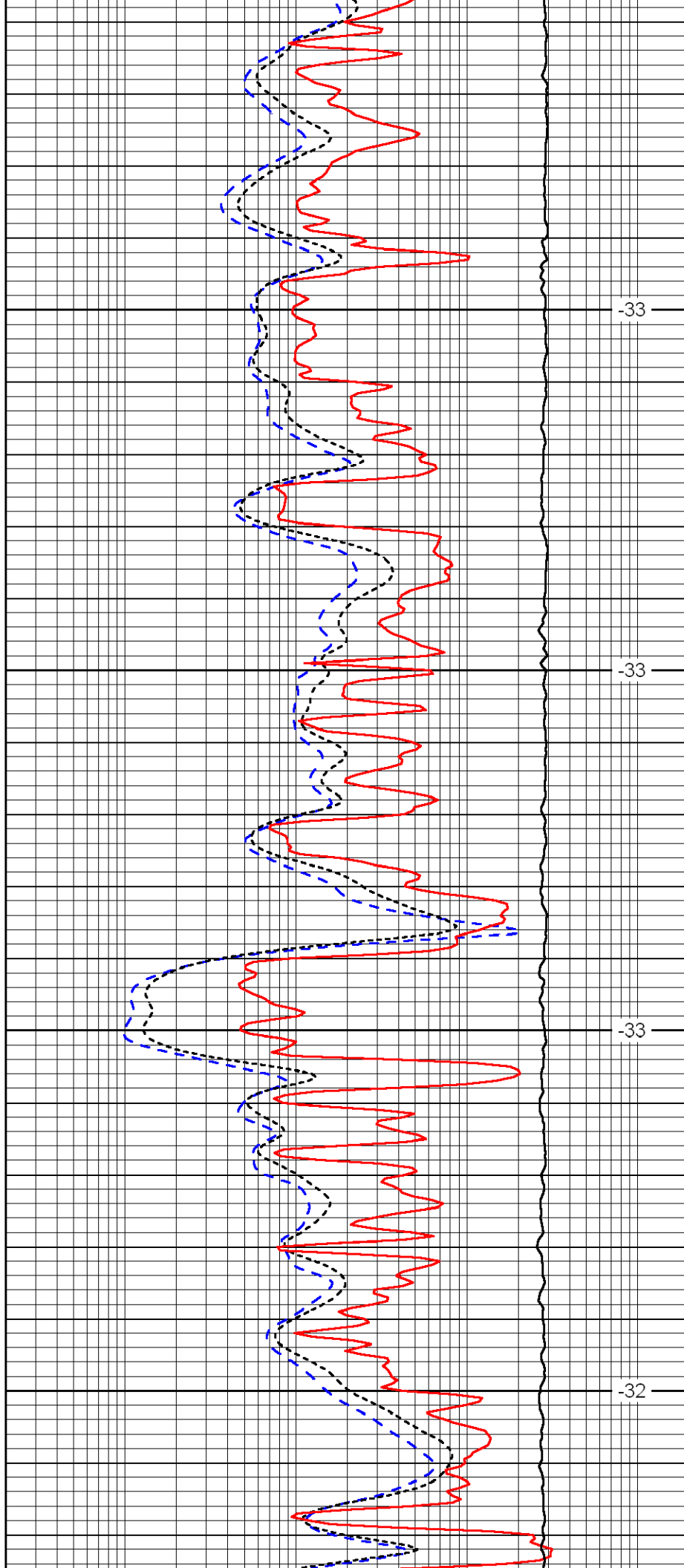


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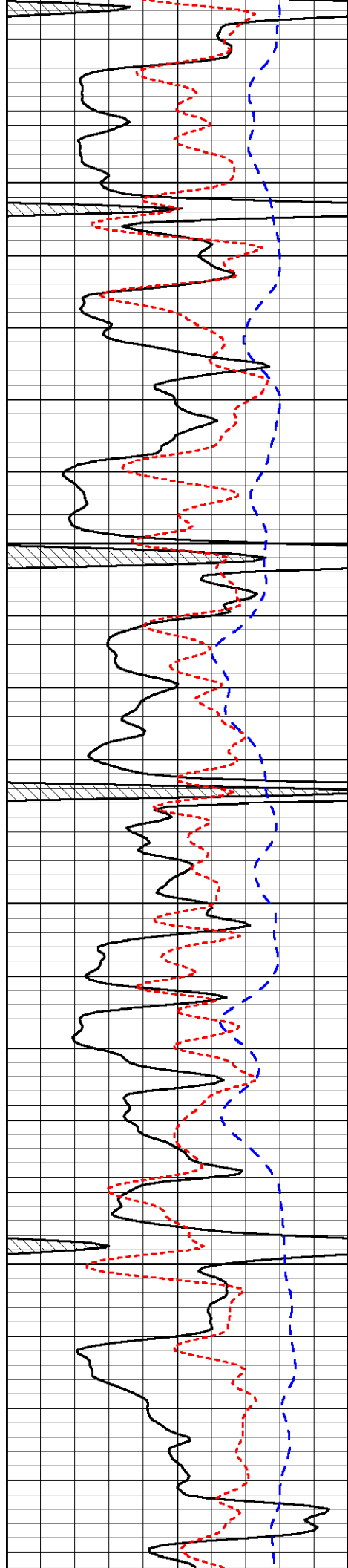


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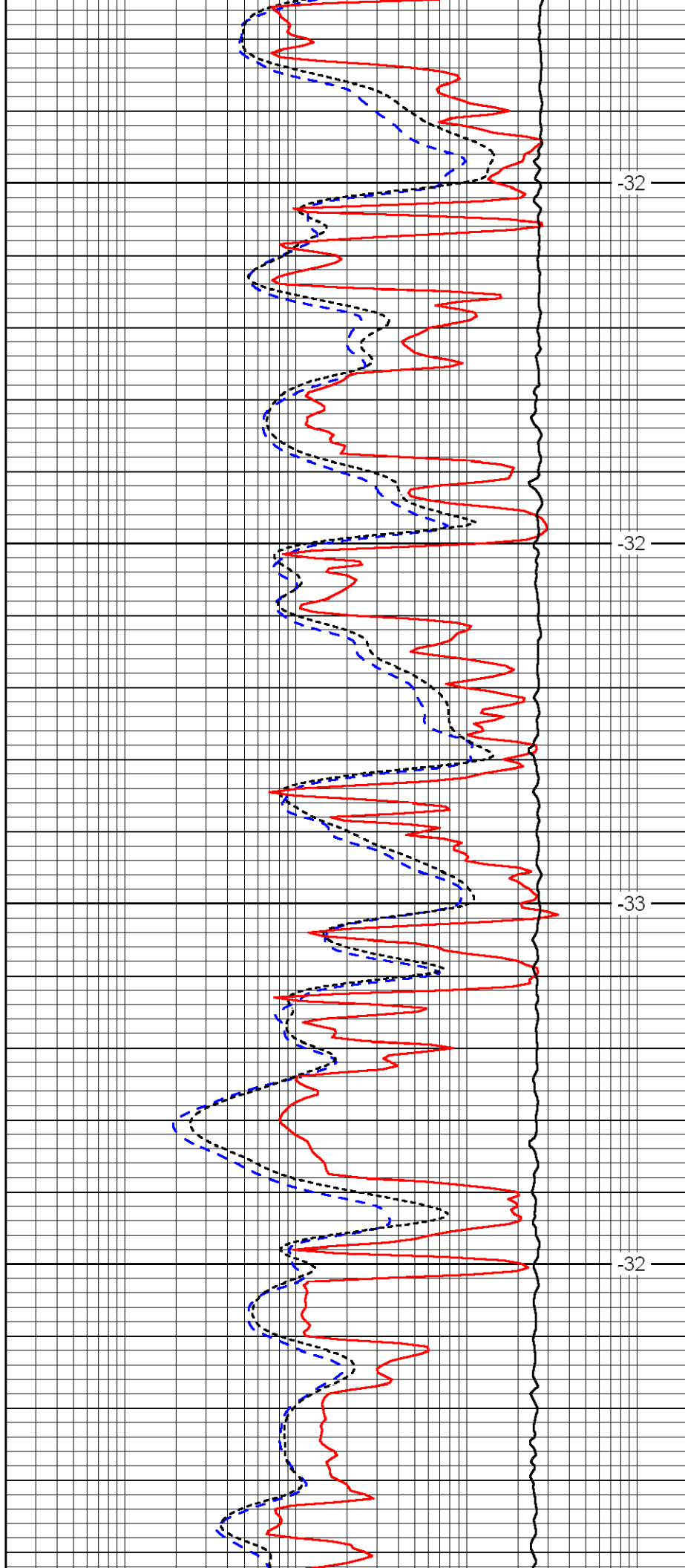


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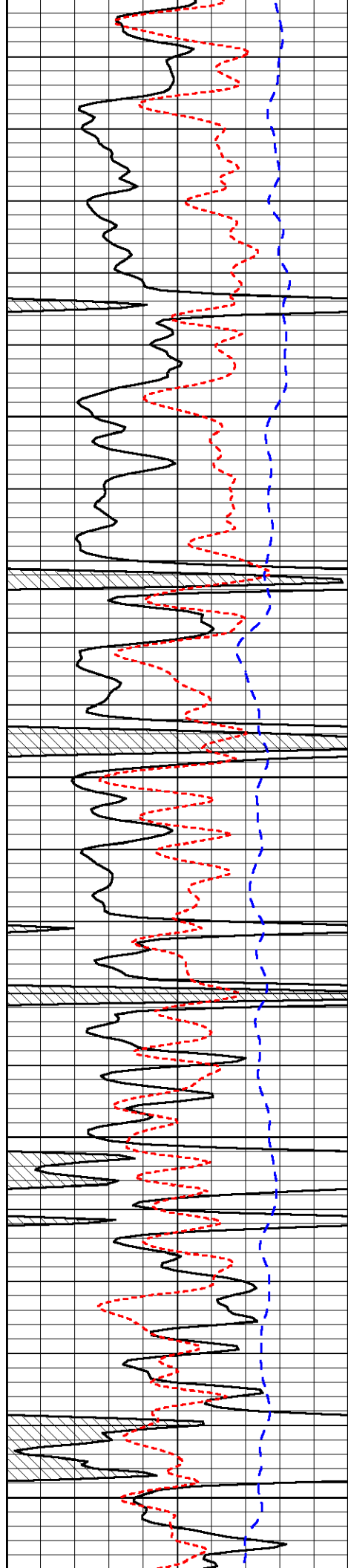


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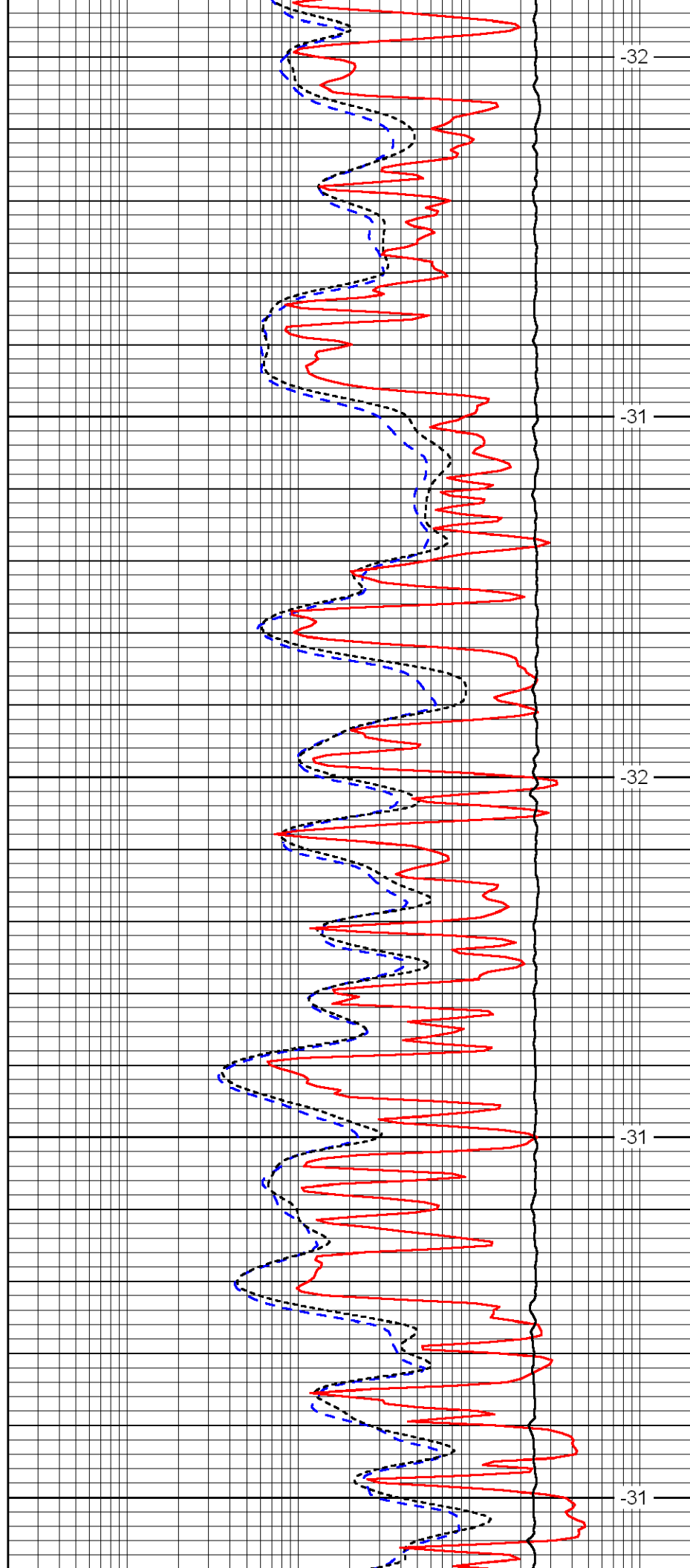
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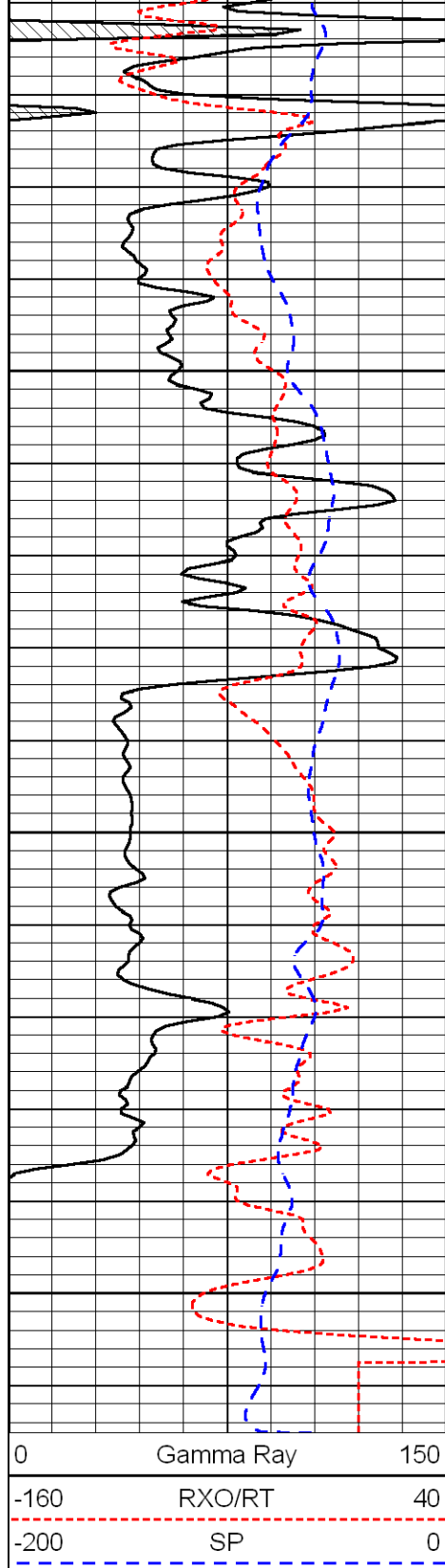
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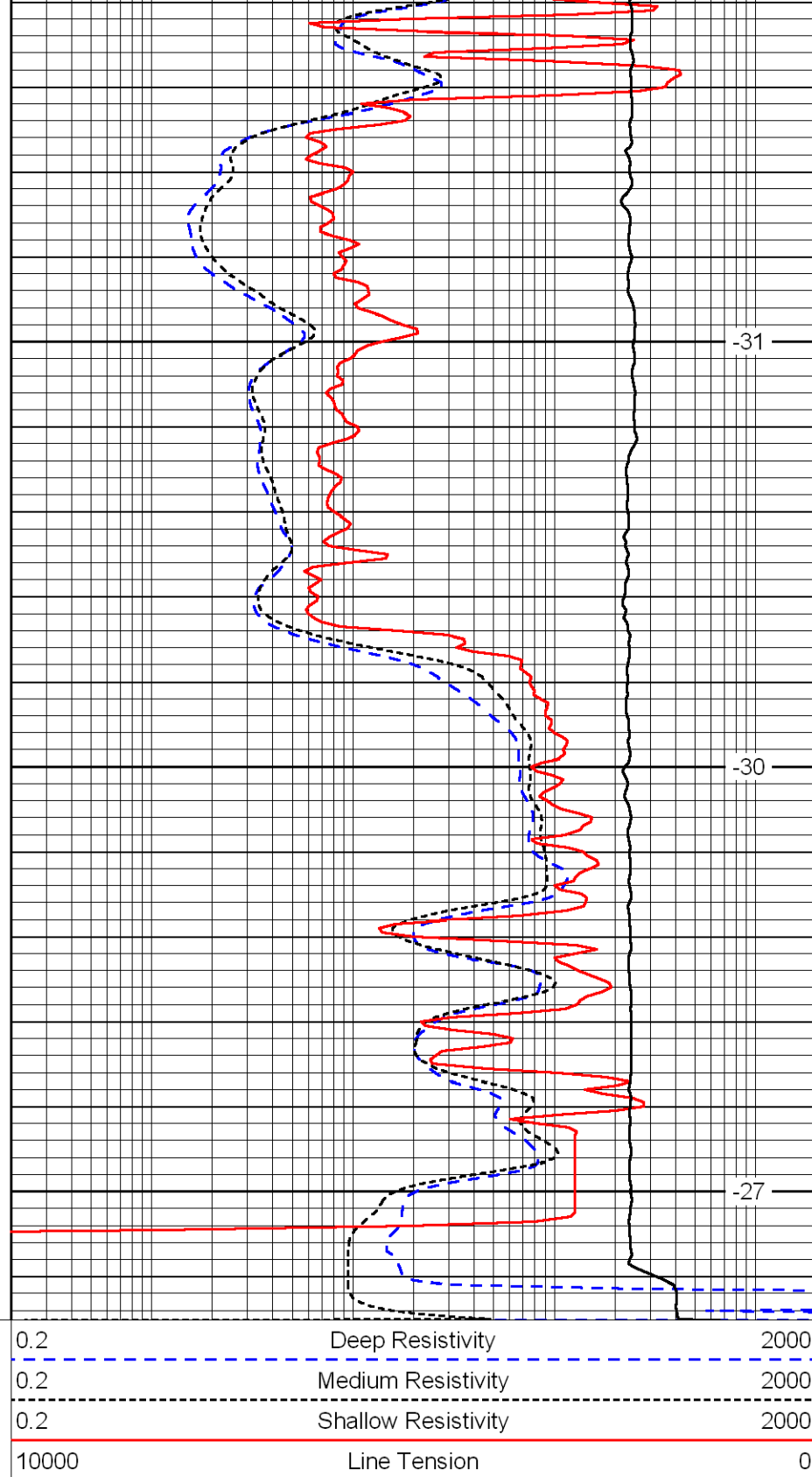
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4800

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4900



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LSPD