



Pioneer Energy Services

Dual Induction Log

API No.

15-203-20287-00-00

Company Red Oak Energy, Inc.

Well Collingwood Trust #1-27

Field Wildcat

County Wichita

State

Kansas

Location

770' FSL / 1367' FWL

Sec: 27

Twp: 20S

Rge: 38W

Elevation

Permanent Datum Ground Level Elevation 3405
Log Measured From Kelly Bushing 17 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

K.B. 3422
D.F.
G.L. 3405

Date 11/9/2014

Run Number One

Depth Driller 5000

Depth Logger 4999

Bottom Logged Interval 4998

Top Log Interval 300

Casing Driller 8.625 @ 337

Casing Logger 351

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 4500

Density / Viscosity 9.4 46

pH / Fluid Loss 10.0 7.2

Source of Sample Flowline

Rm @ Meas. Temp 0.50 @ 69

Rmf @ Meas. Temp 0.38 @ 69

Rmc @ Meas. Temp 0.68 @ 69

Source of Rmf / Rmc Charts

Rm @ BHT 0.27 @ 126

Operating Rig Time 5 Hours

Max Rec. Temp. F 126

Equipment Number 15

Location Hays

Recorded By R. Barnhart

Witnessed By Scott Banks

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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

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(785) 625-3858

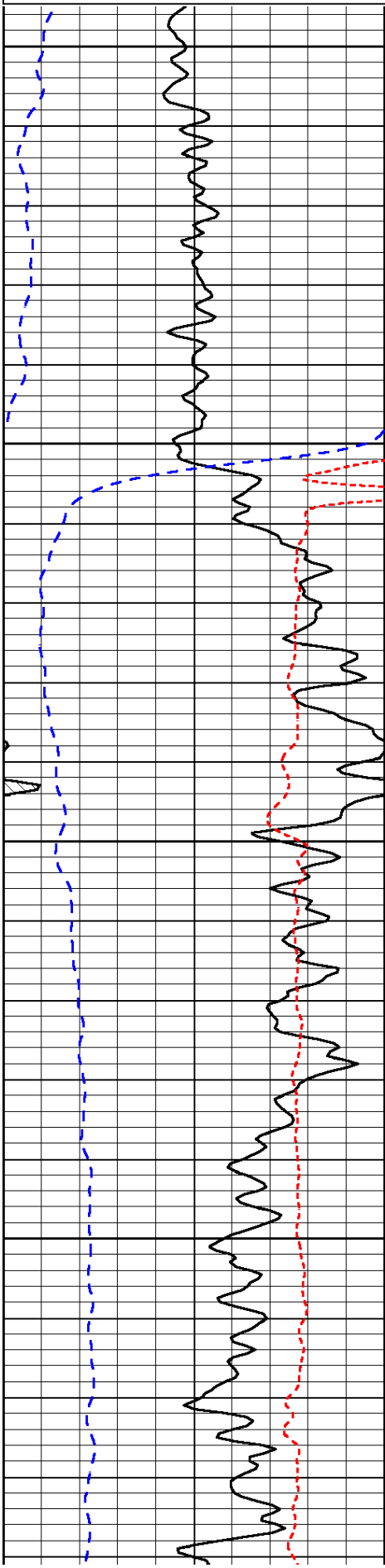
Leoti, KS:
W to 3 Rd., 13S, 1E, N into

Database File: redoak_hd.db
Dataset Pathname: dil/rodil
Presentation Format: dil
Dataset Creation: Sun Nov 09 22:43:38 2014
Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150
-160	RxoRt	40
-200	SP (mV)	0

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

LSPD

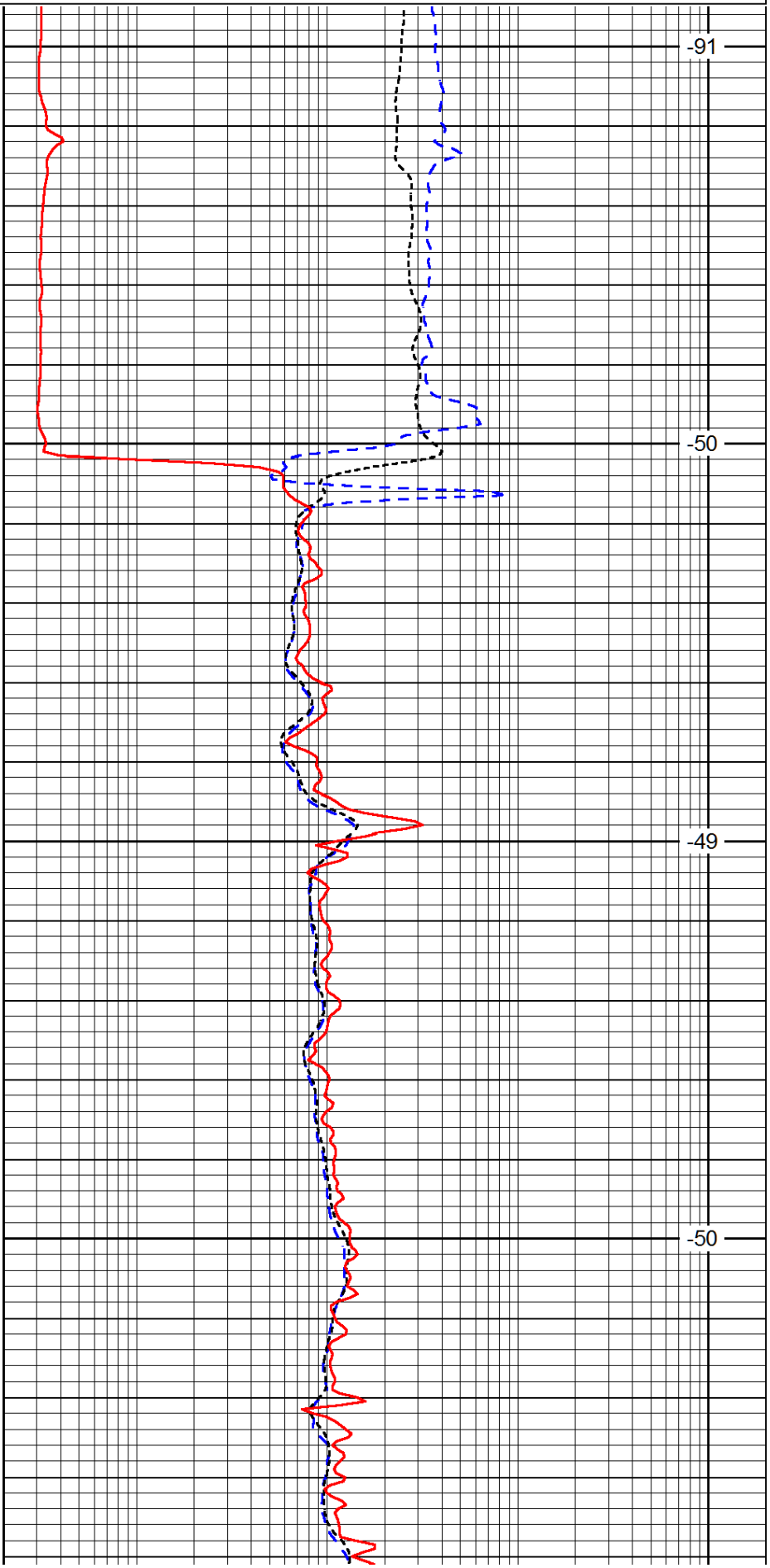


300

350

400

450

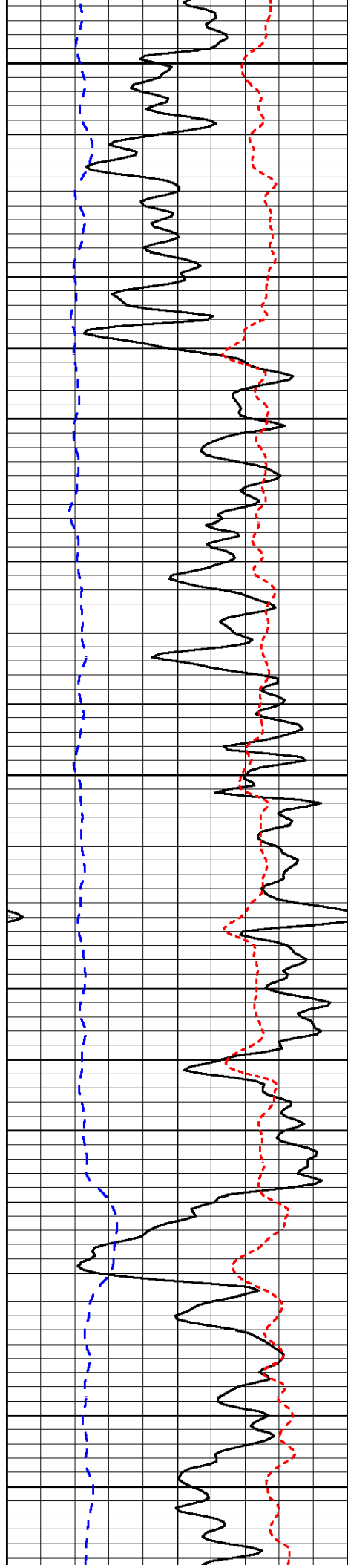


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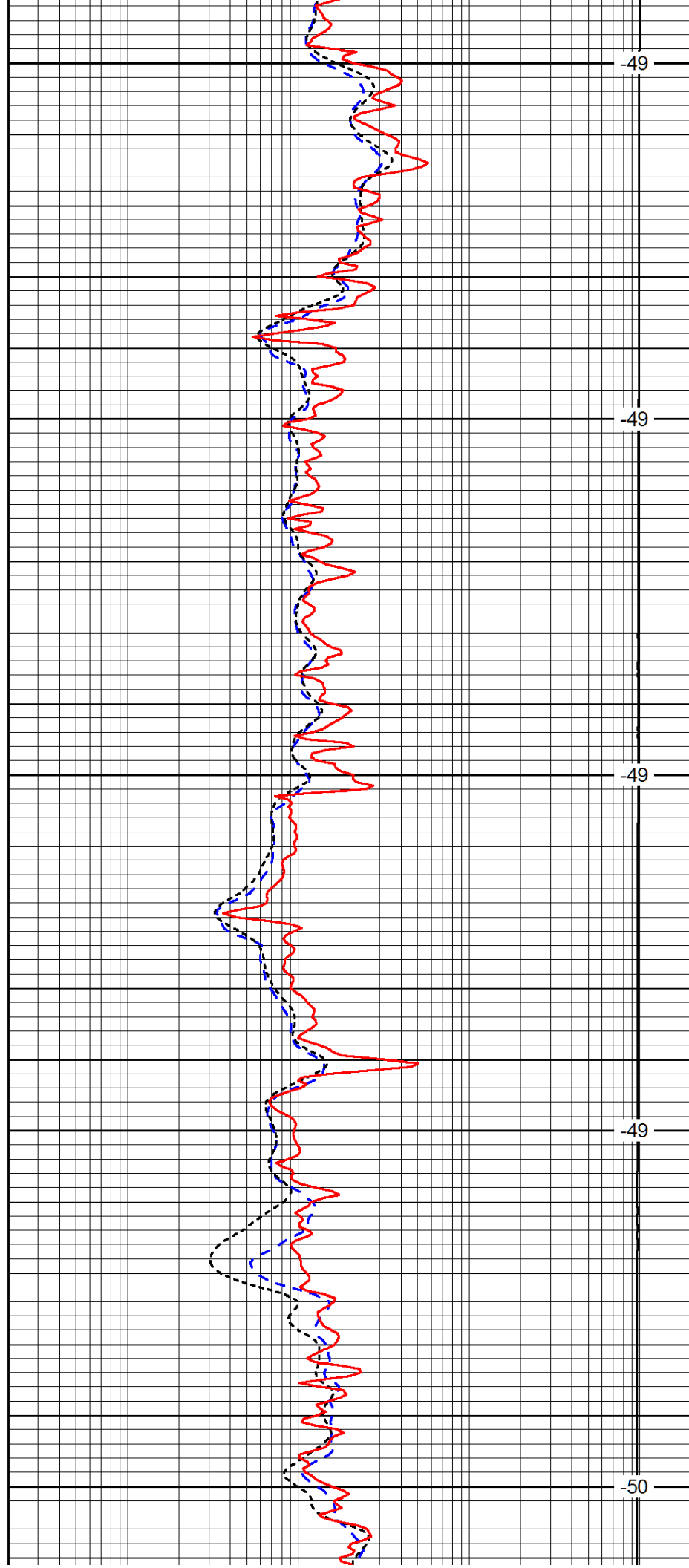
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550

600

650

700



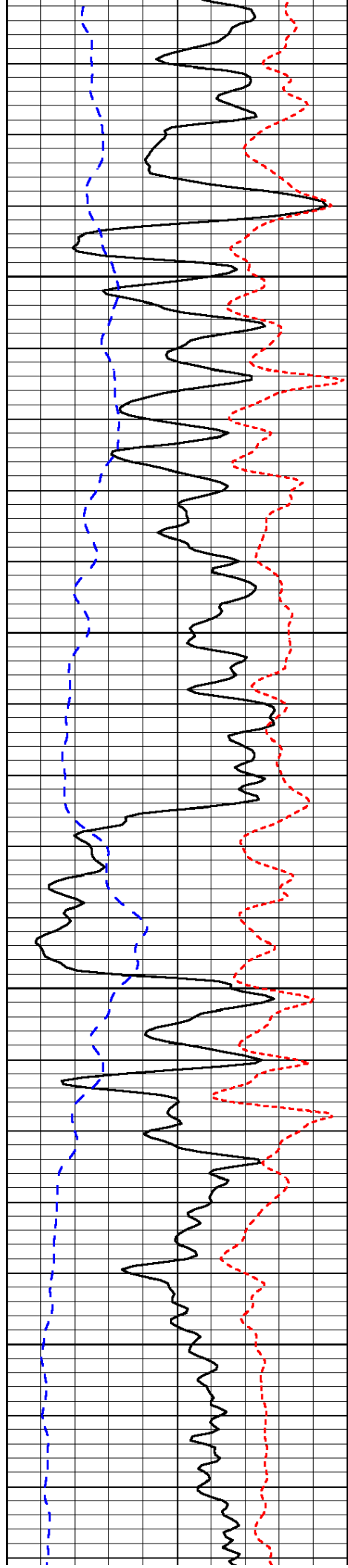
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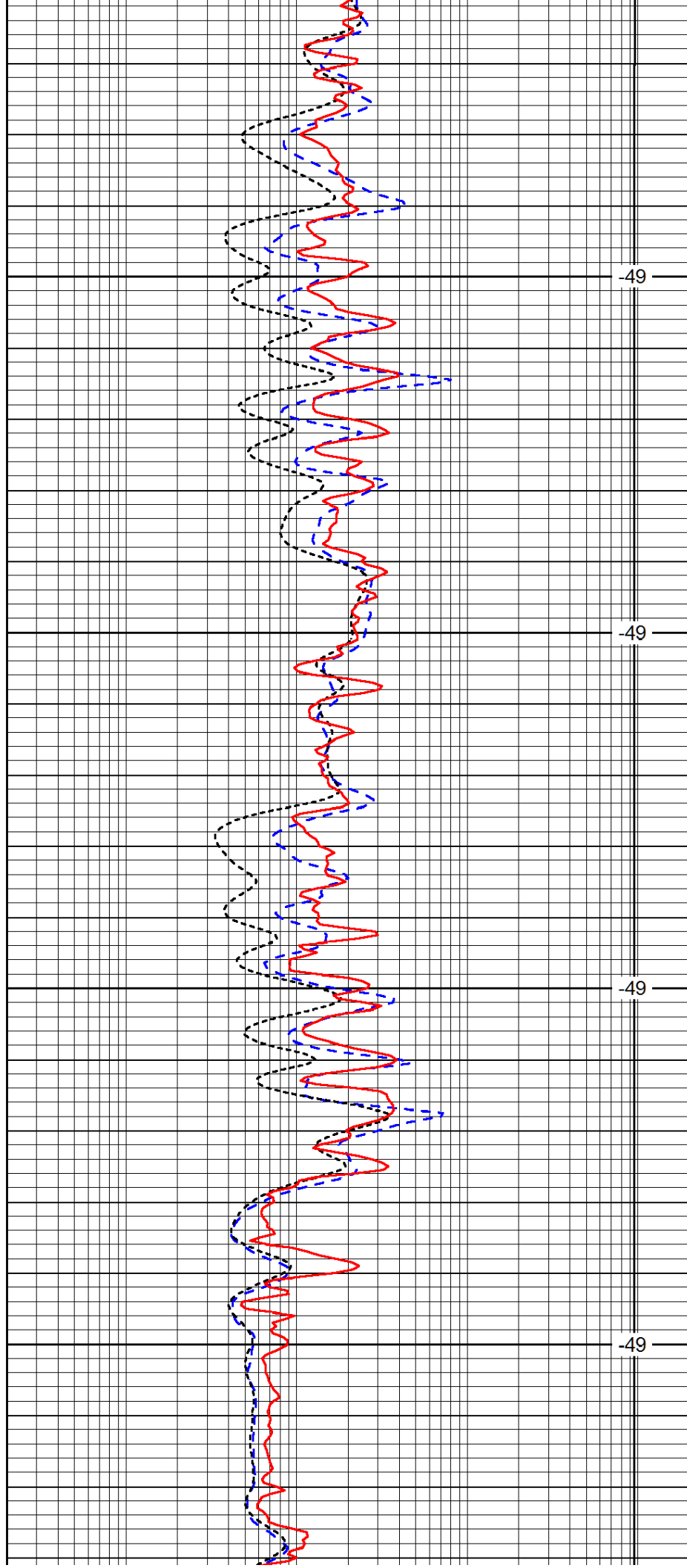


750

800

850

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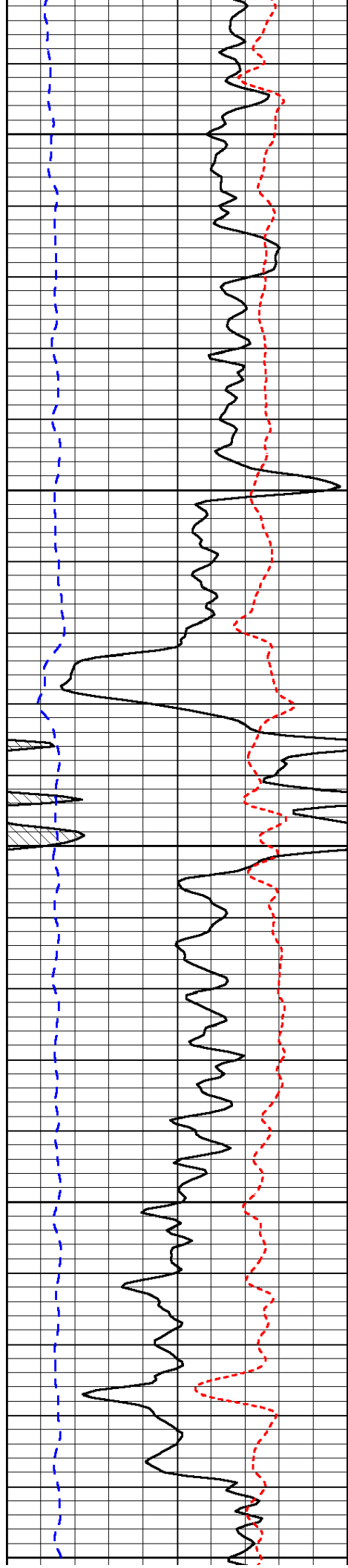


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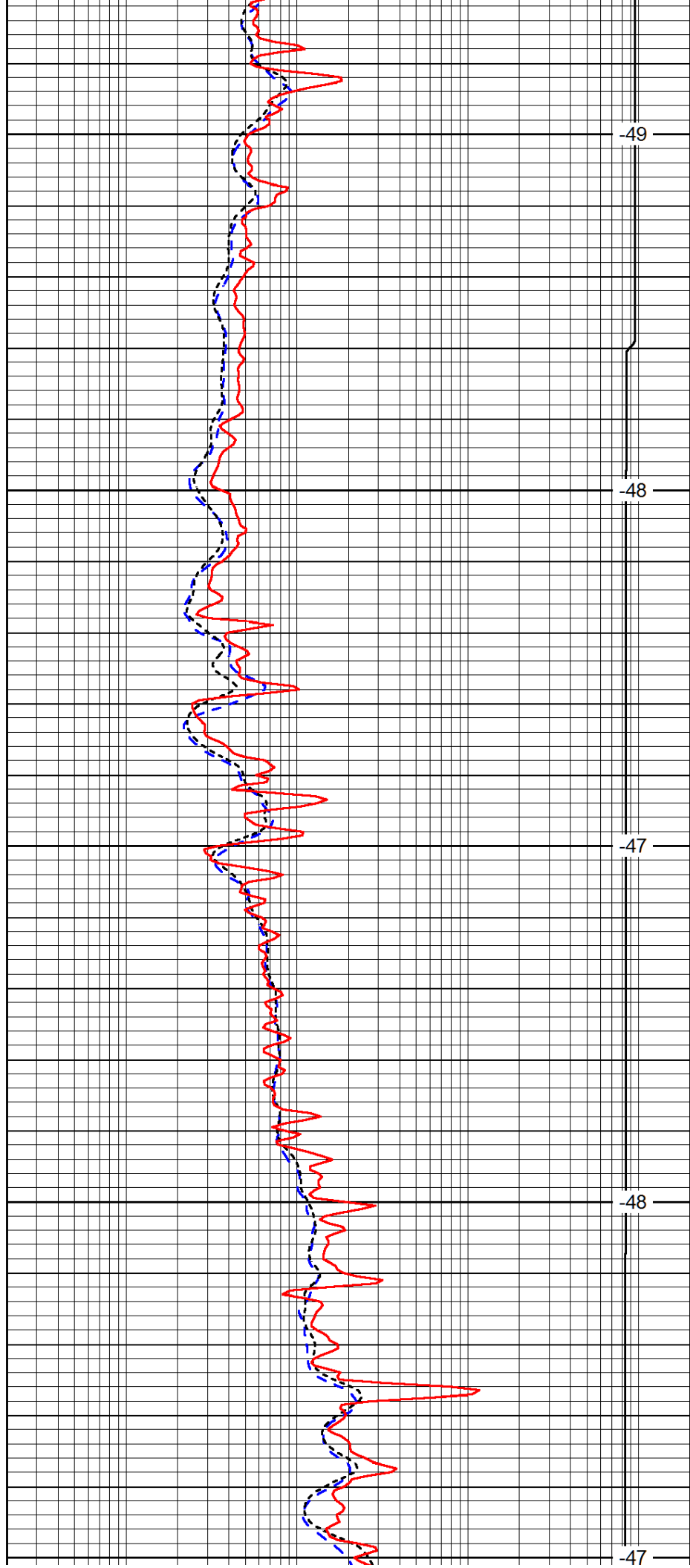
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1100

1150



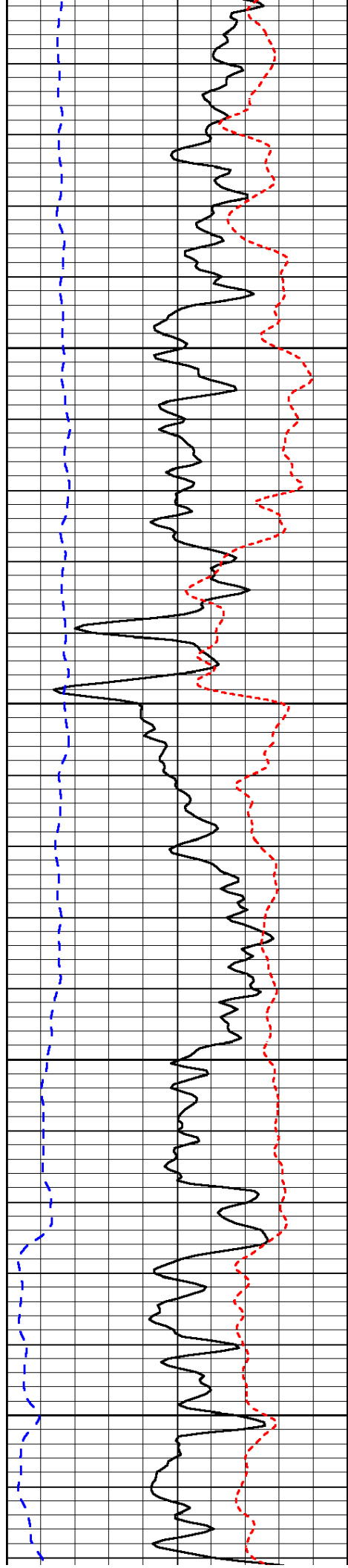
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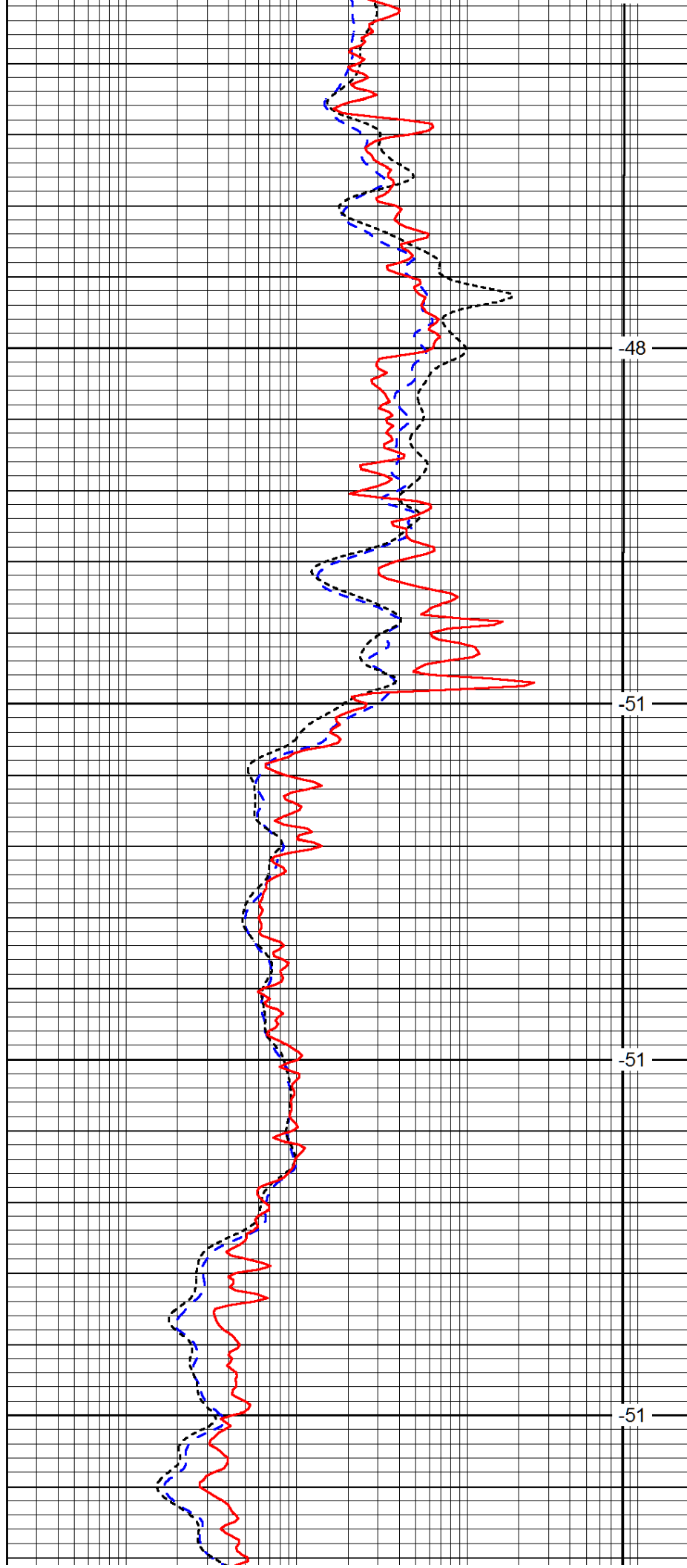


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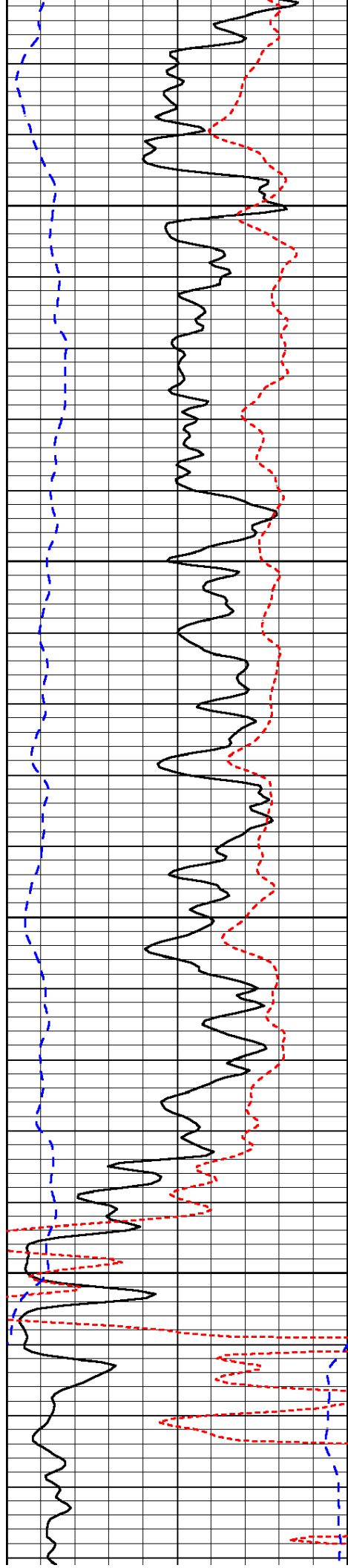


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1400

1450

1500

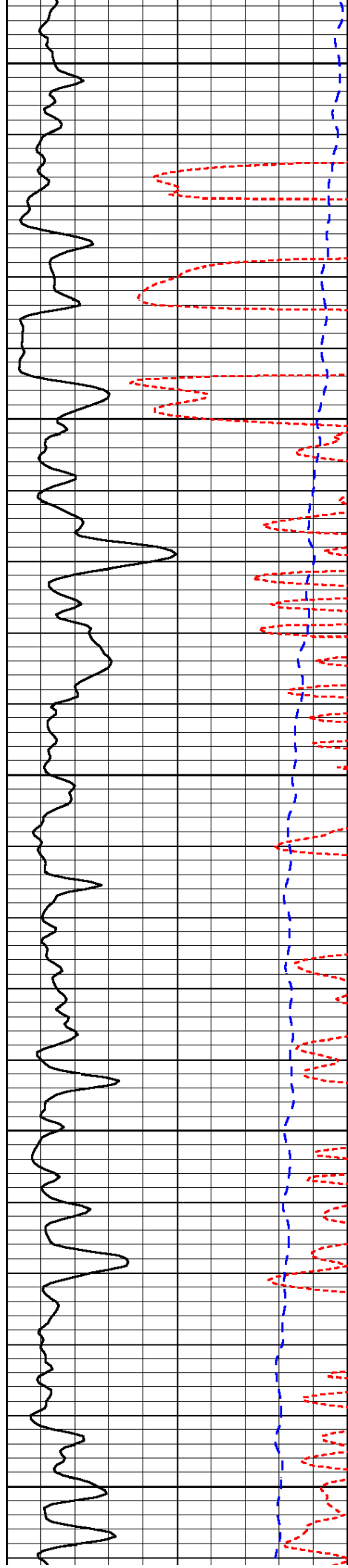
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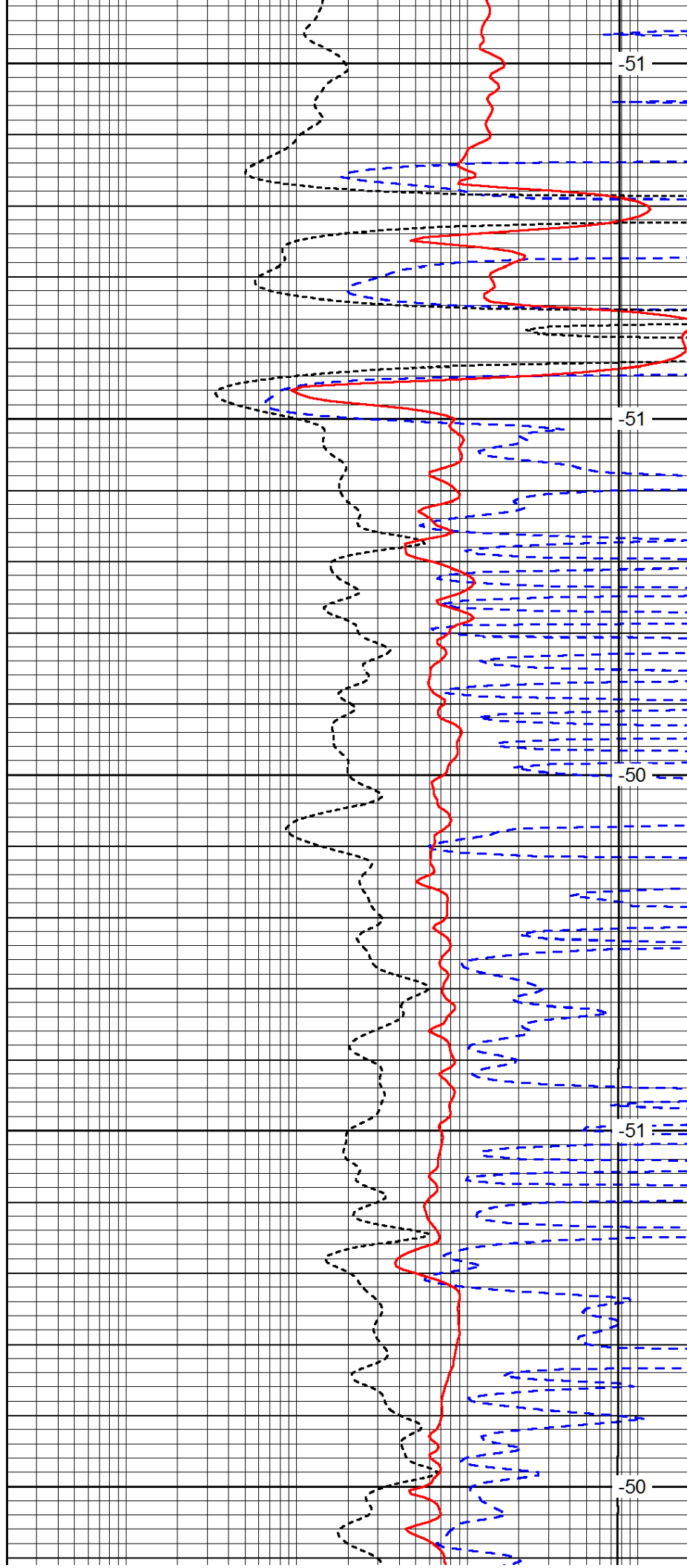
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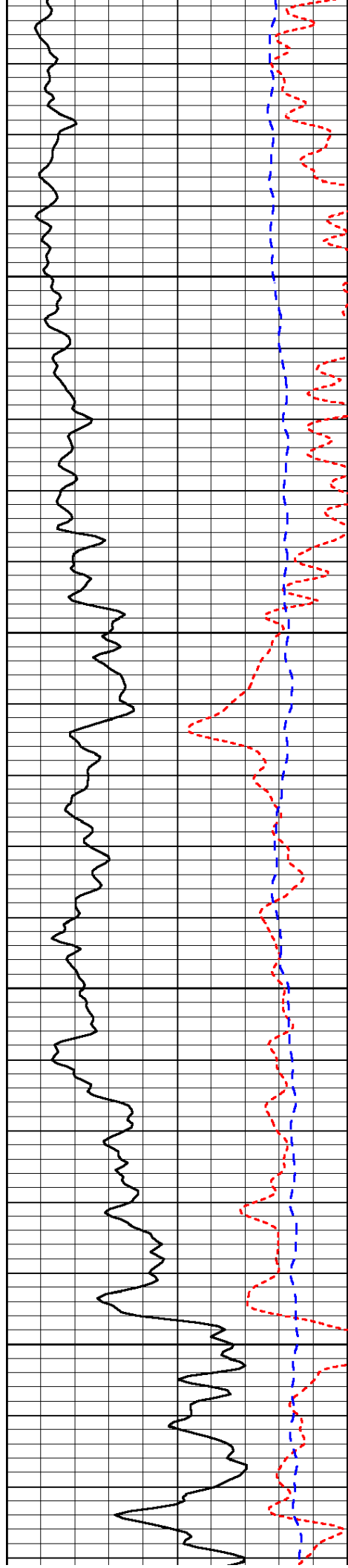
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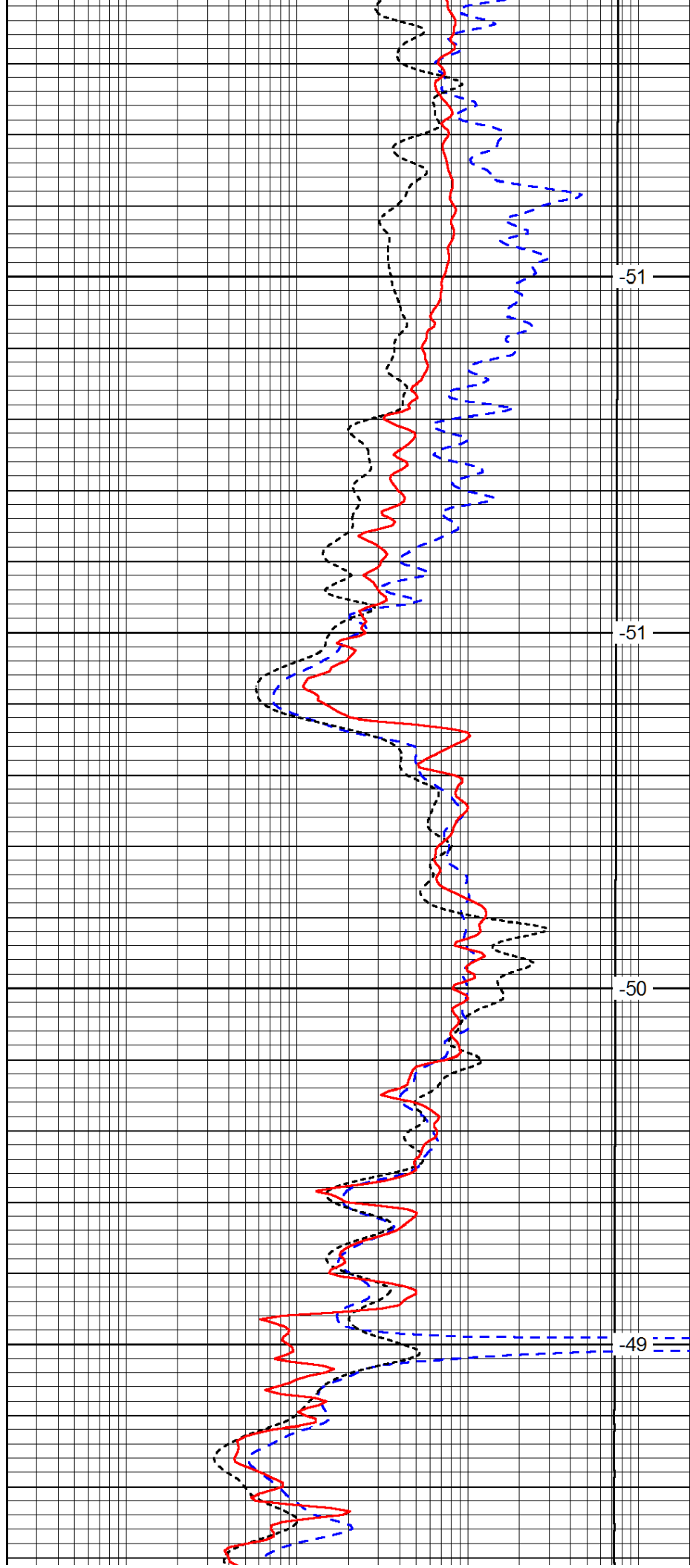


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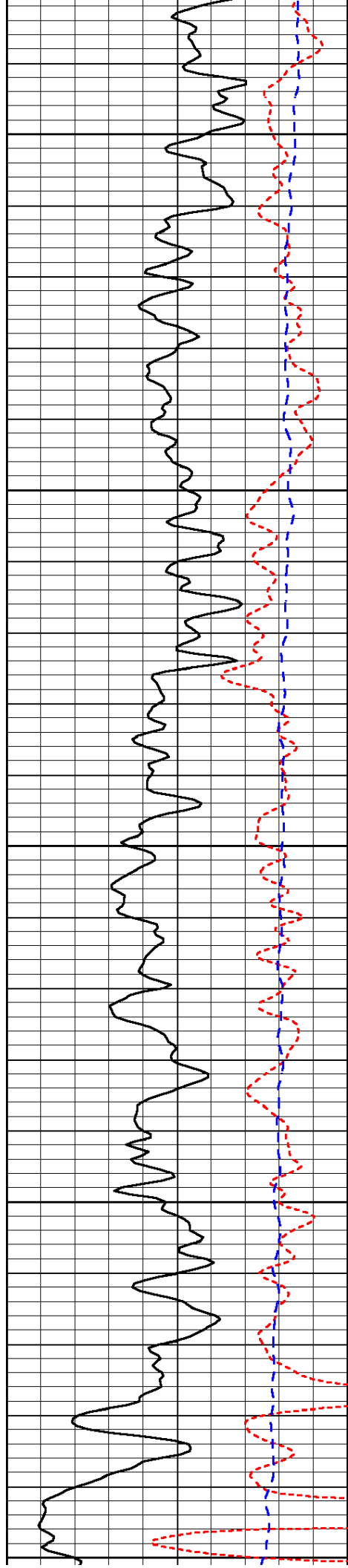


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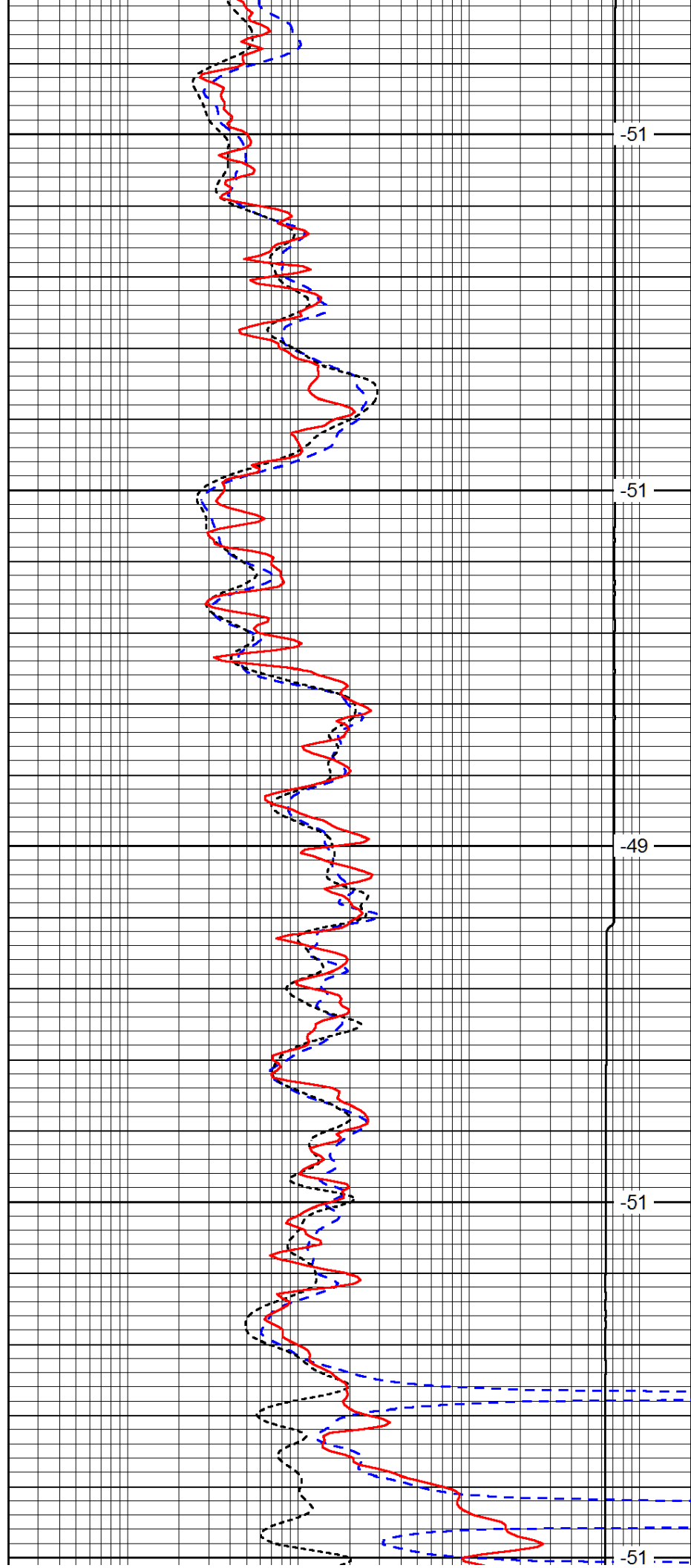
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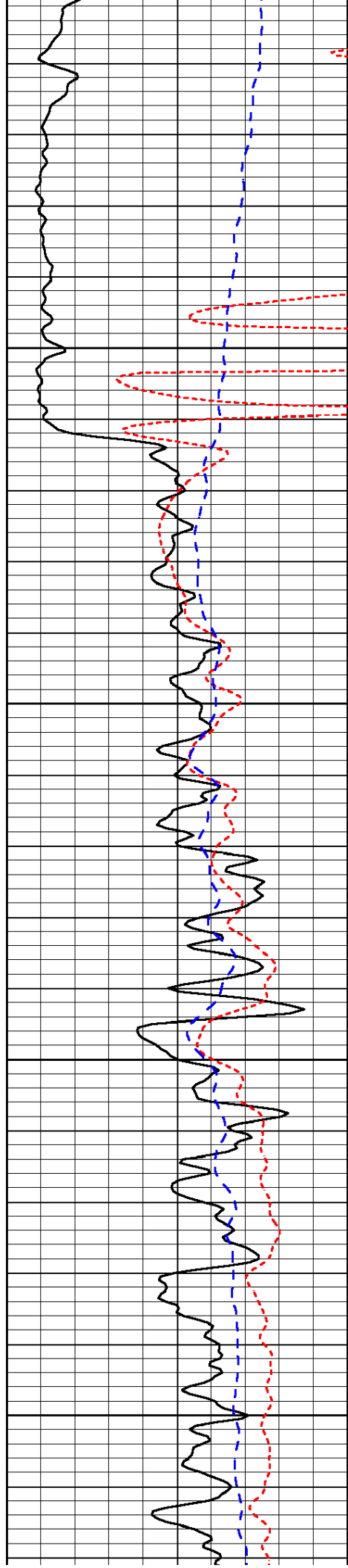
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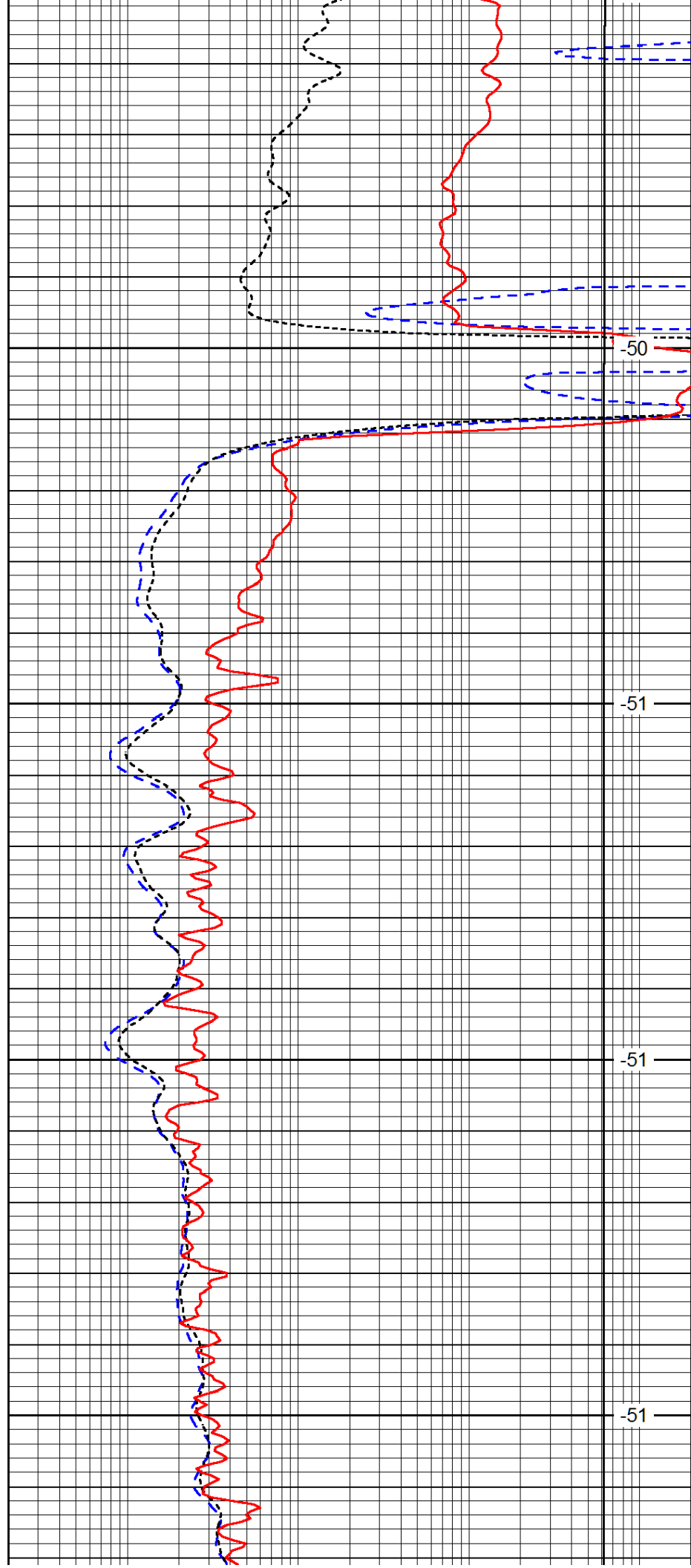


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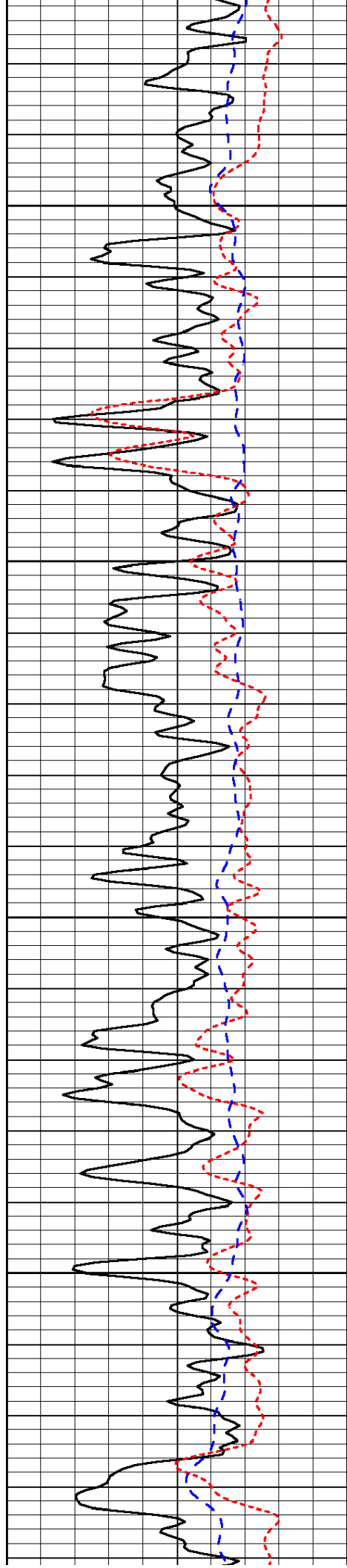


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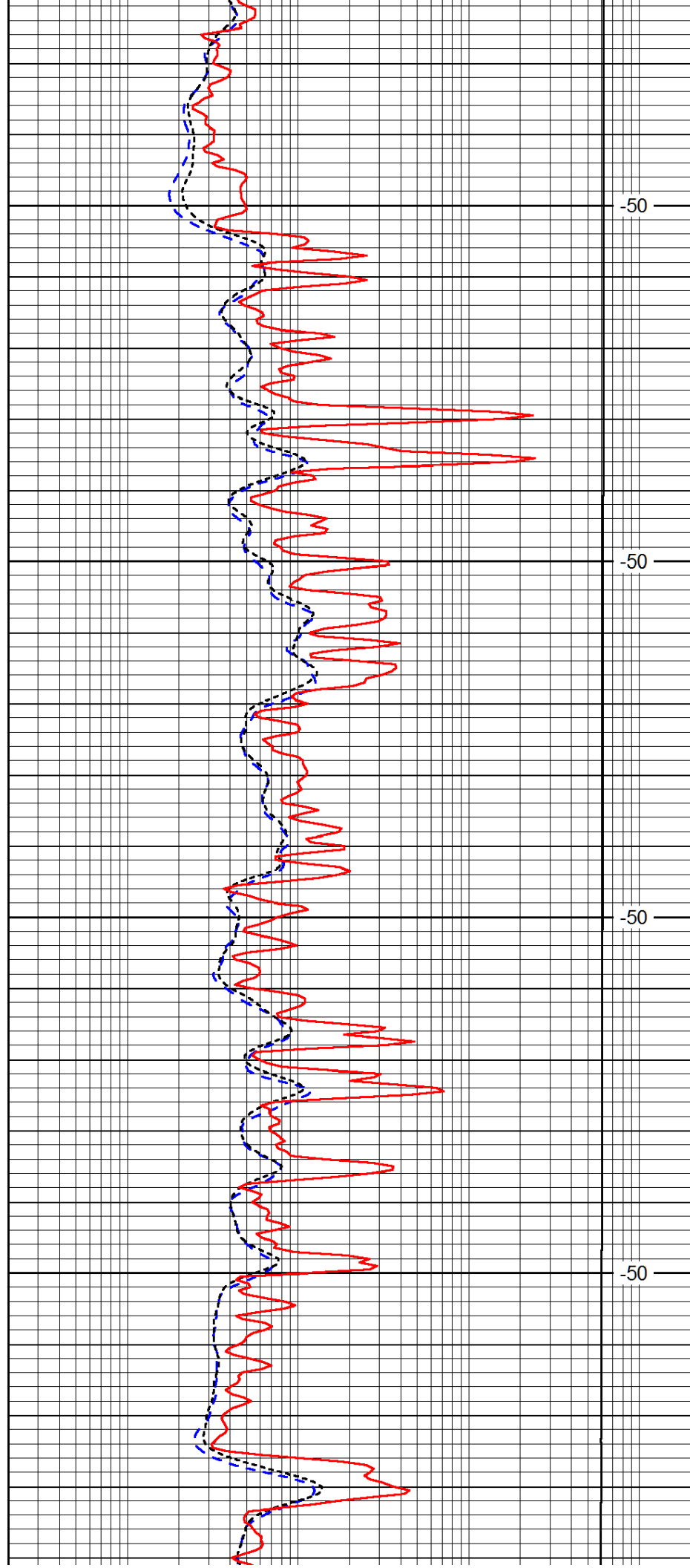


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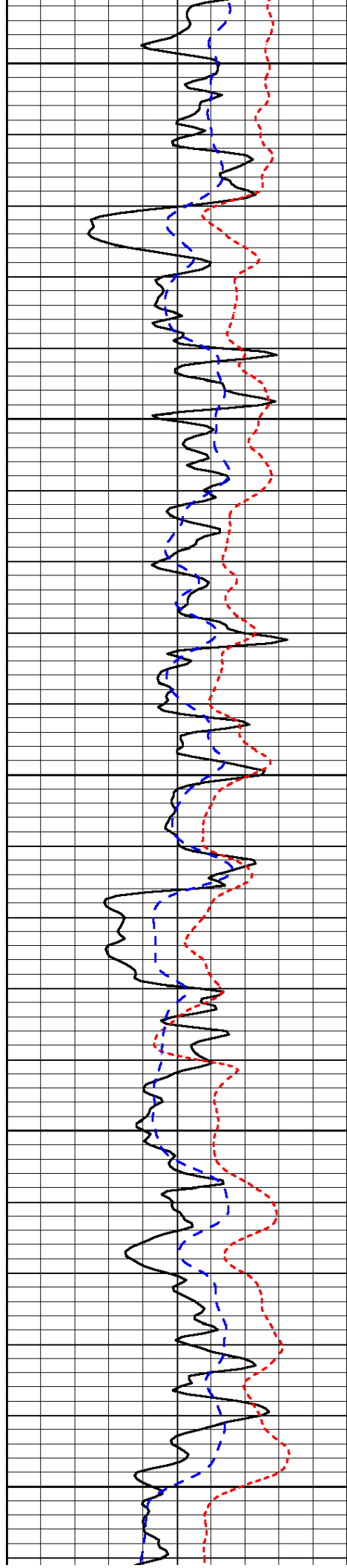


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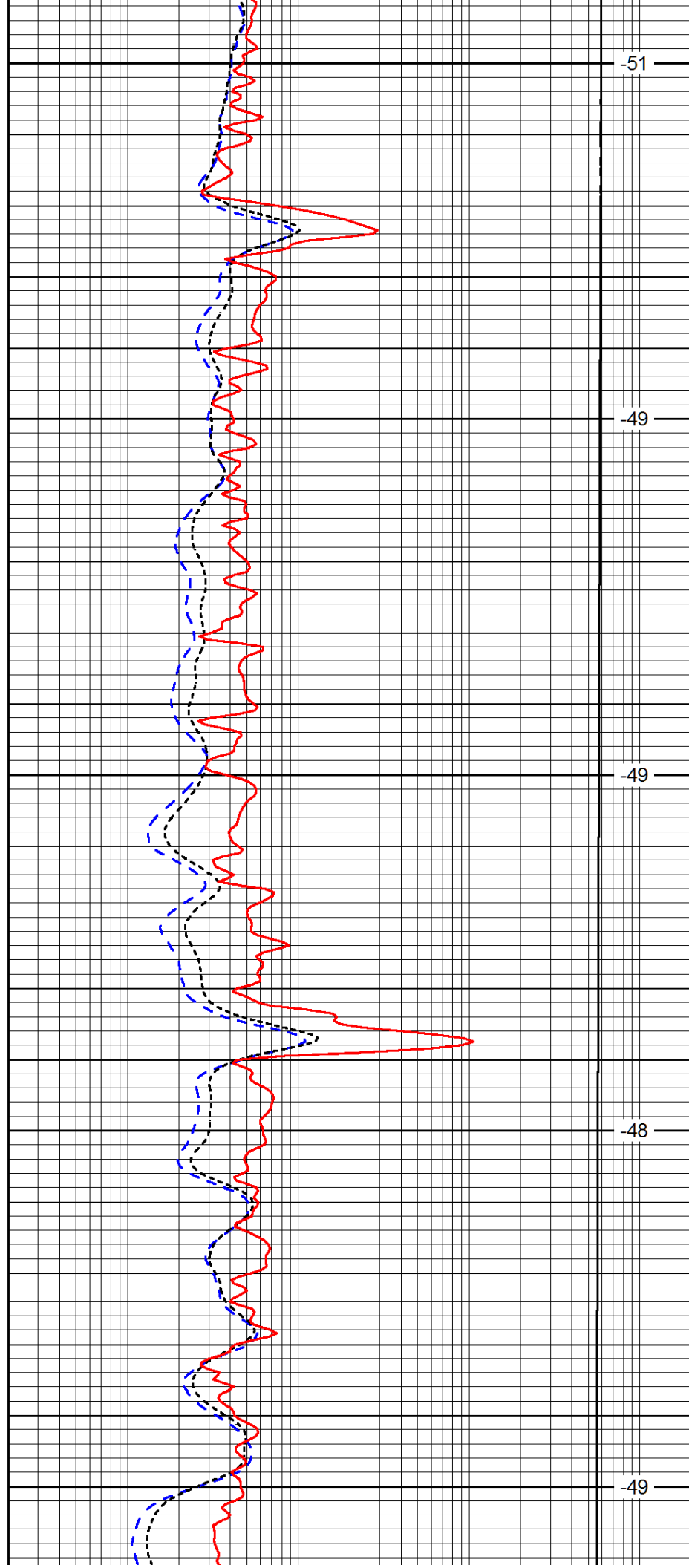
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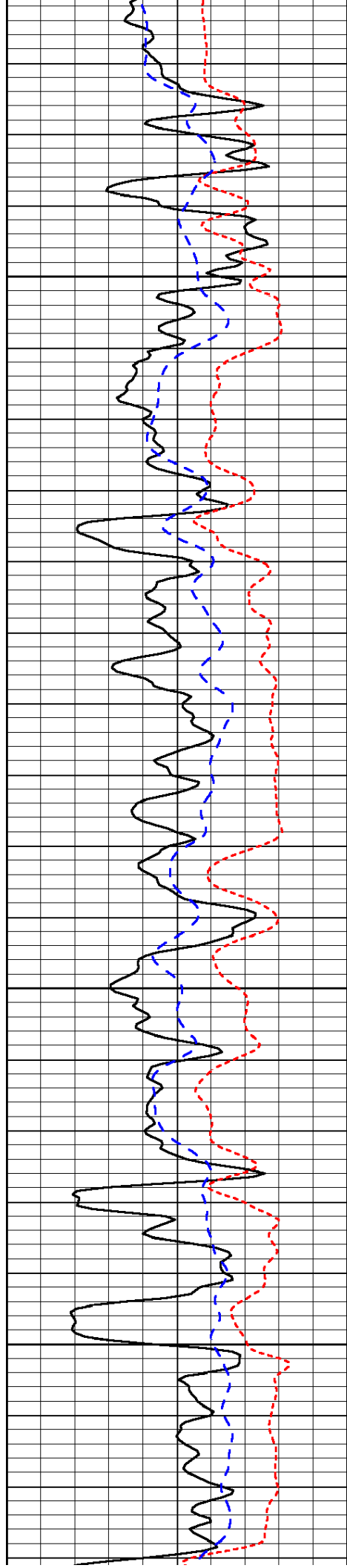
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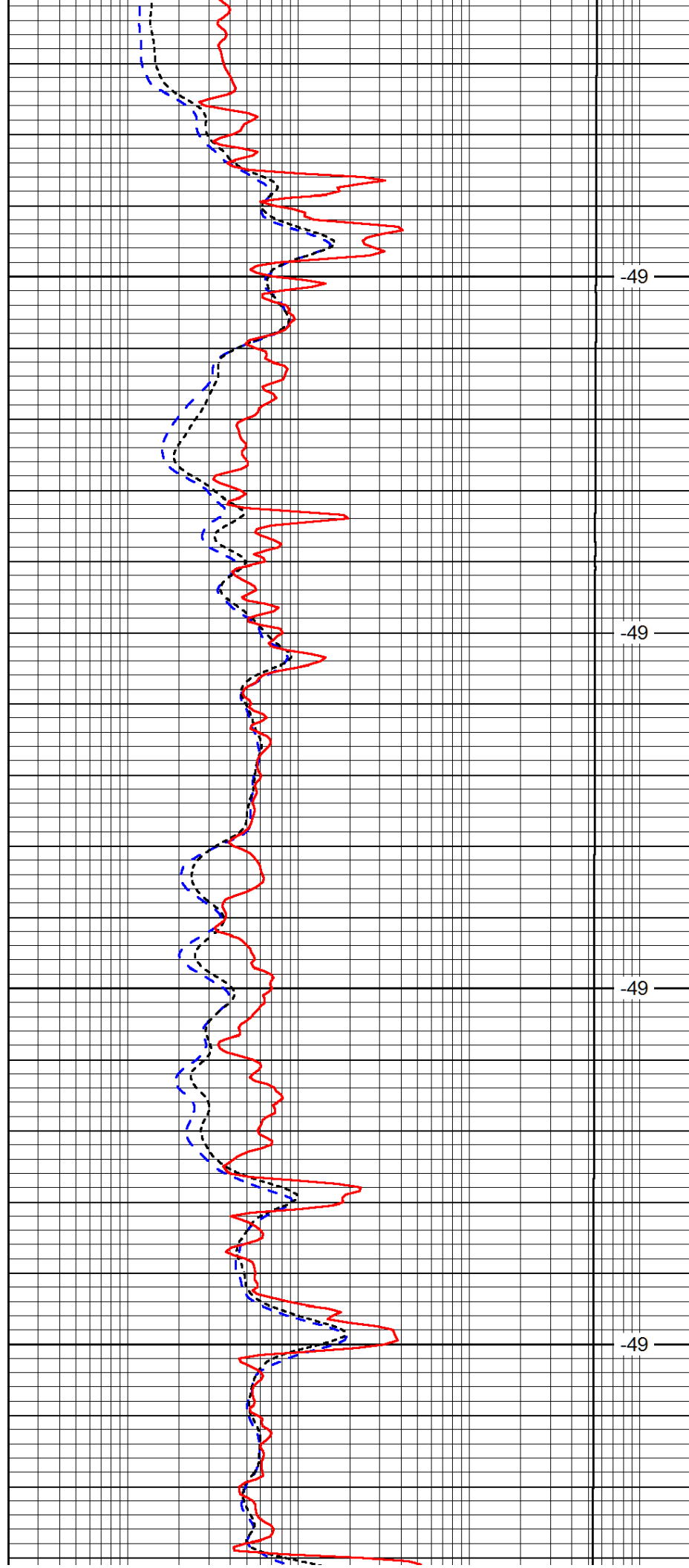


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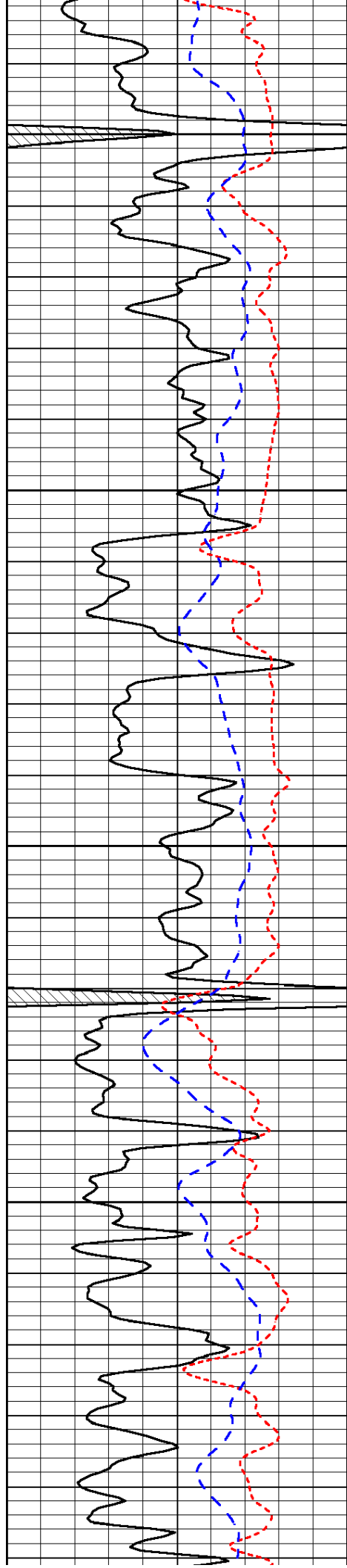


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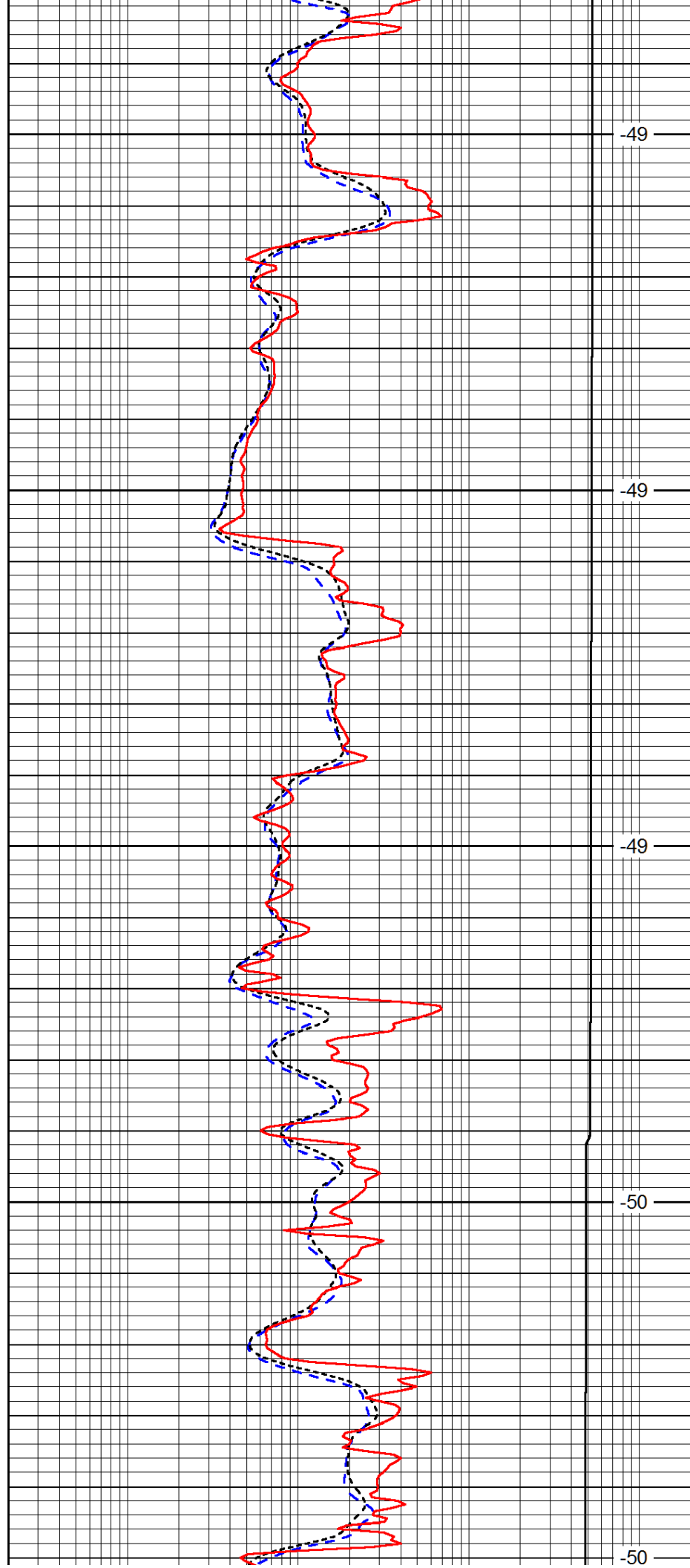
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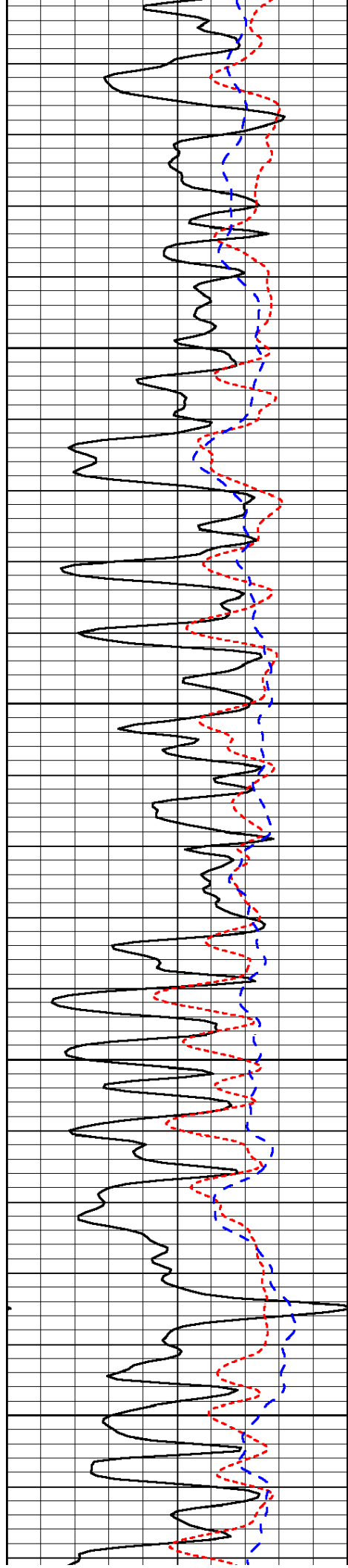
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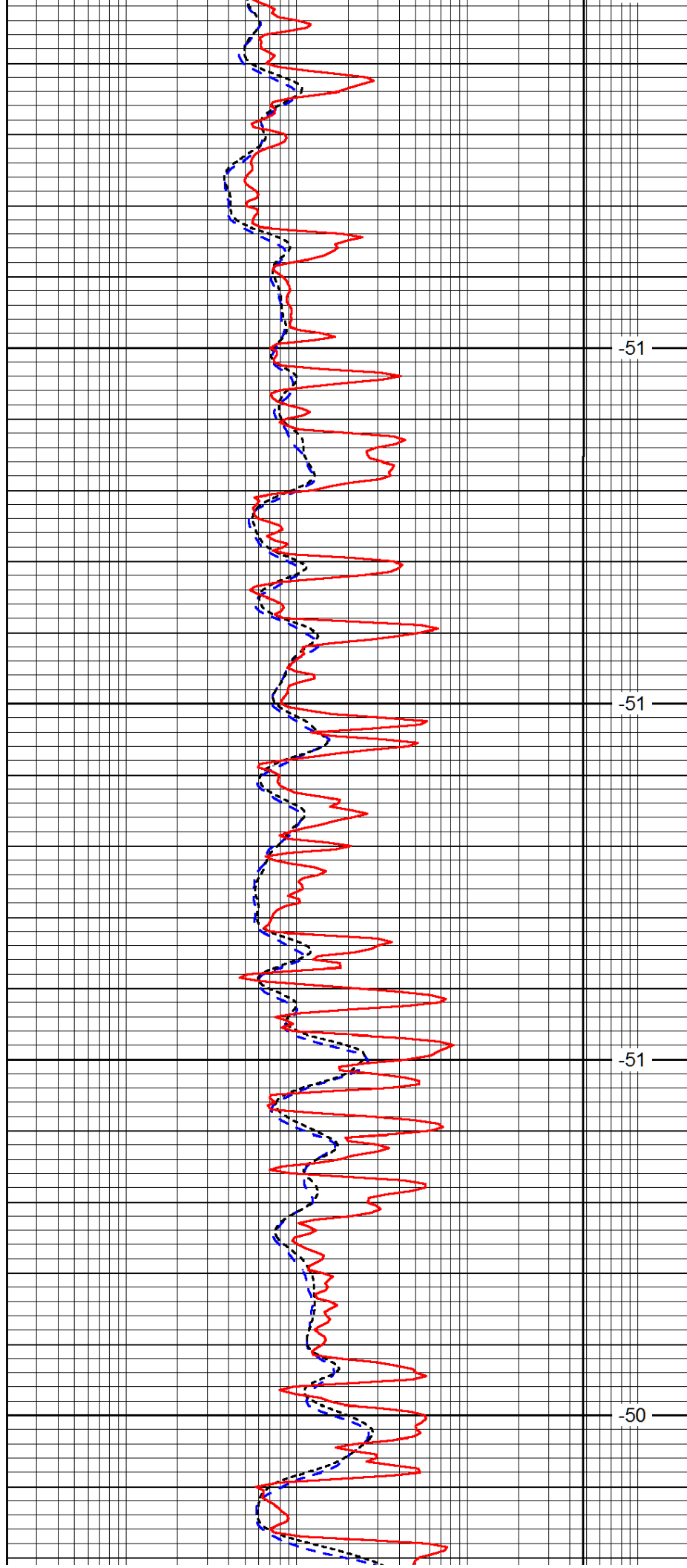


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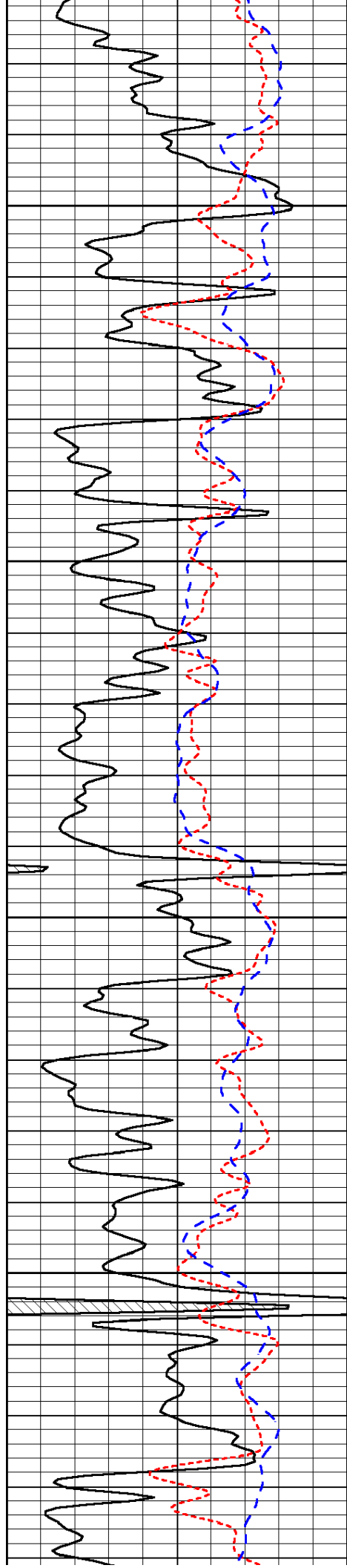


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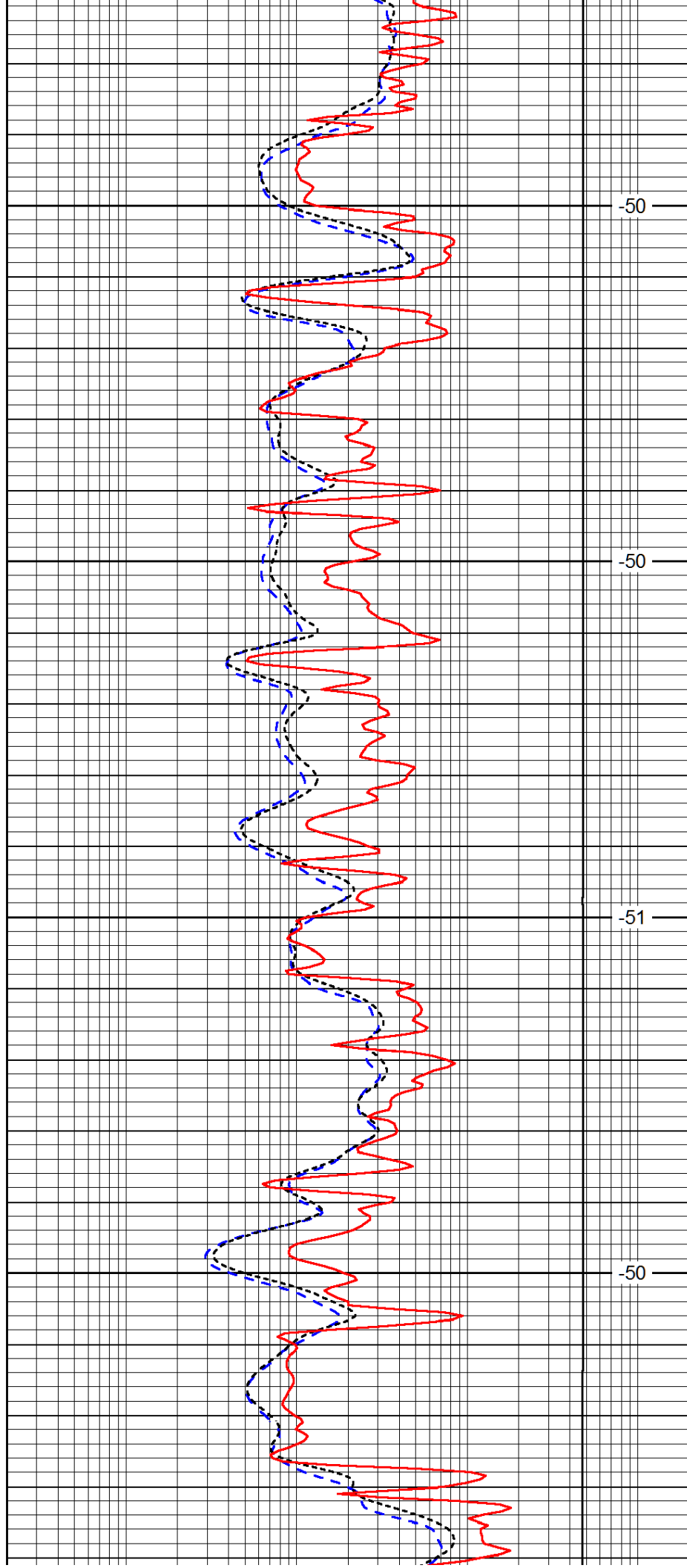


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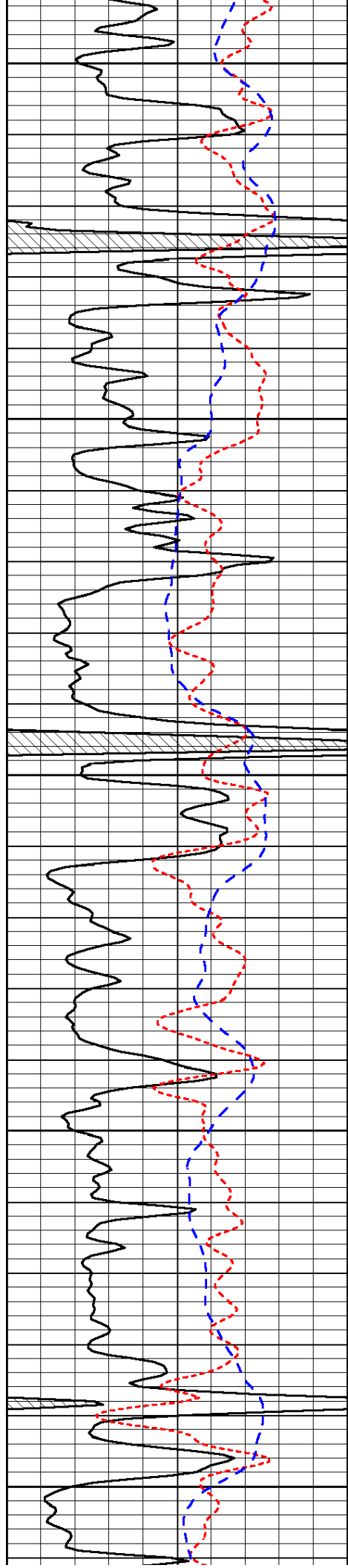


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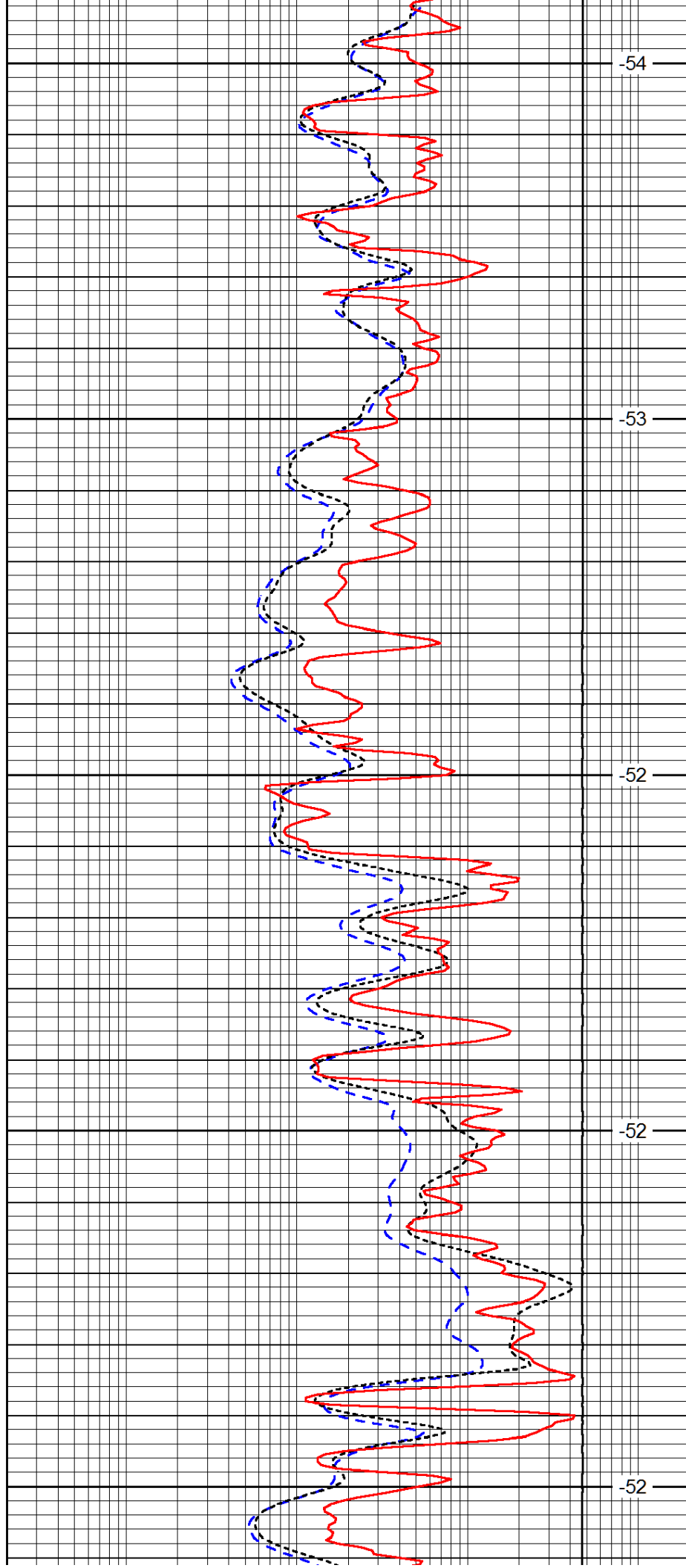
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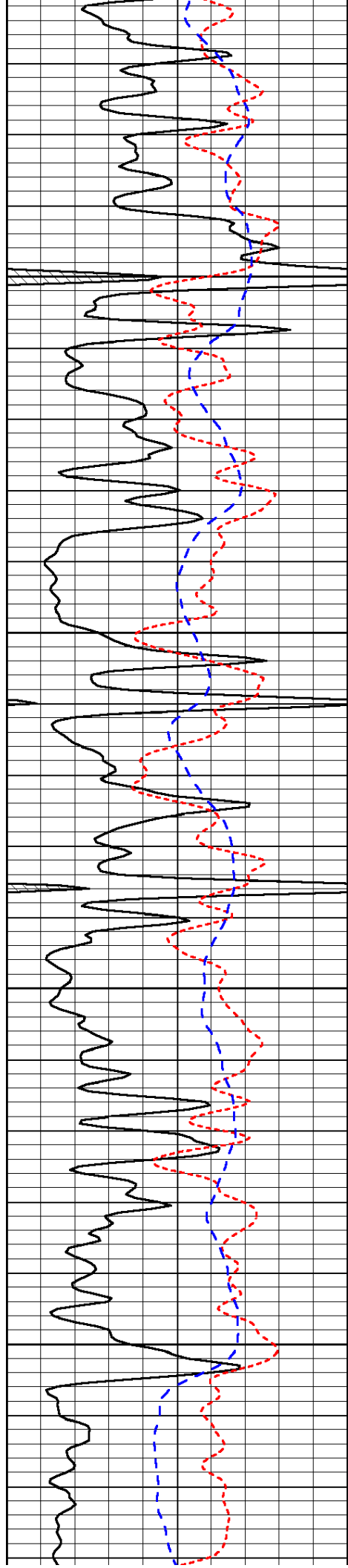
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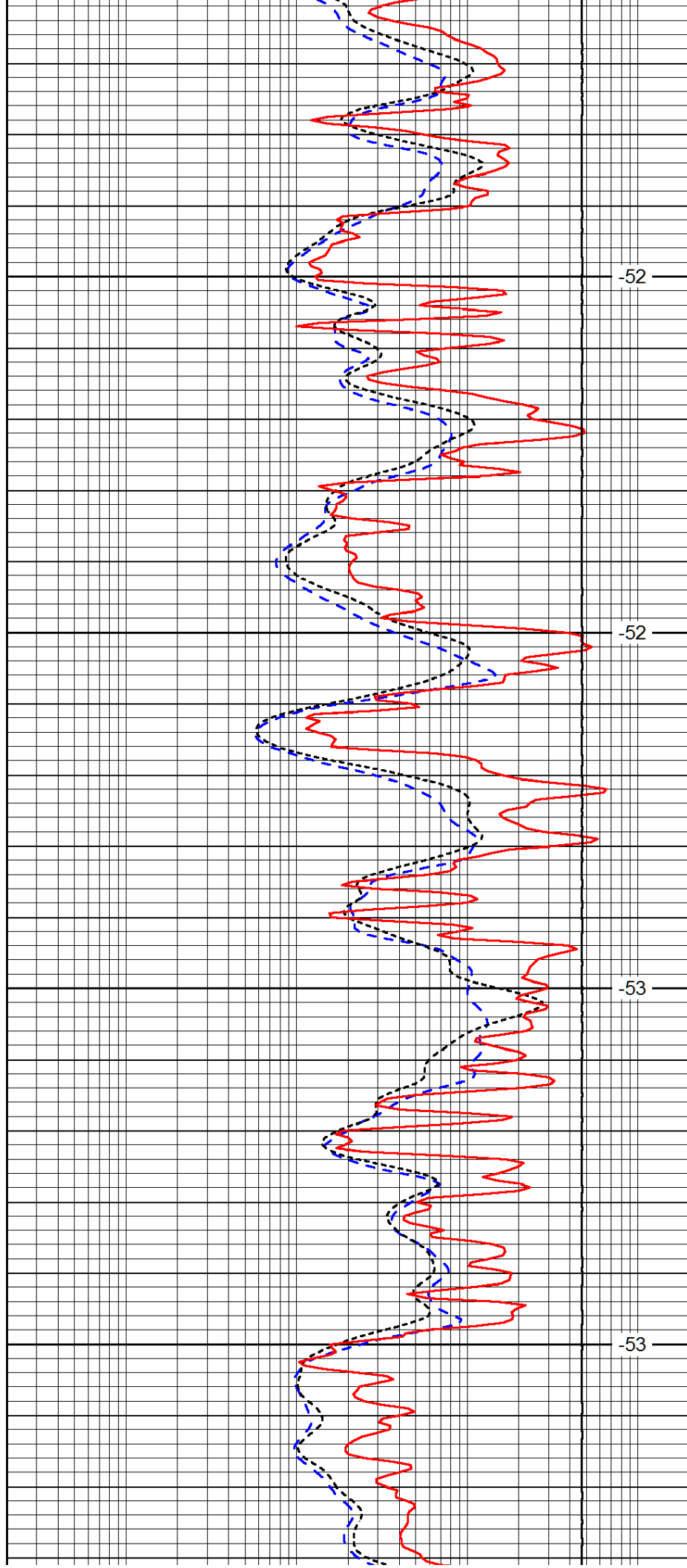


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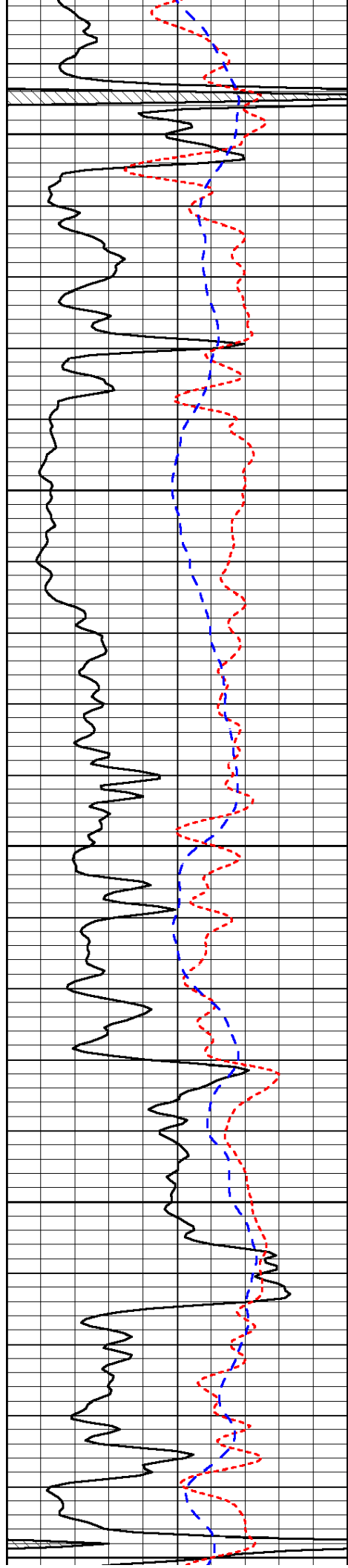


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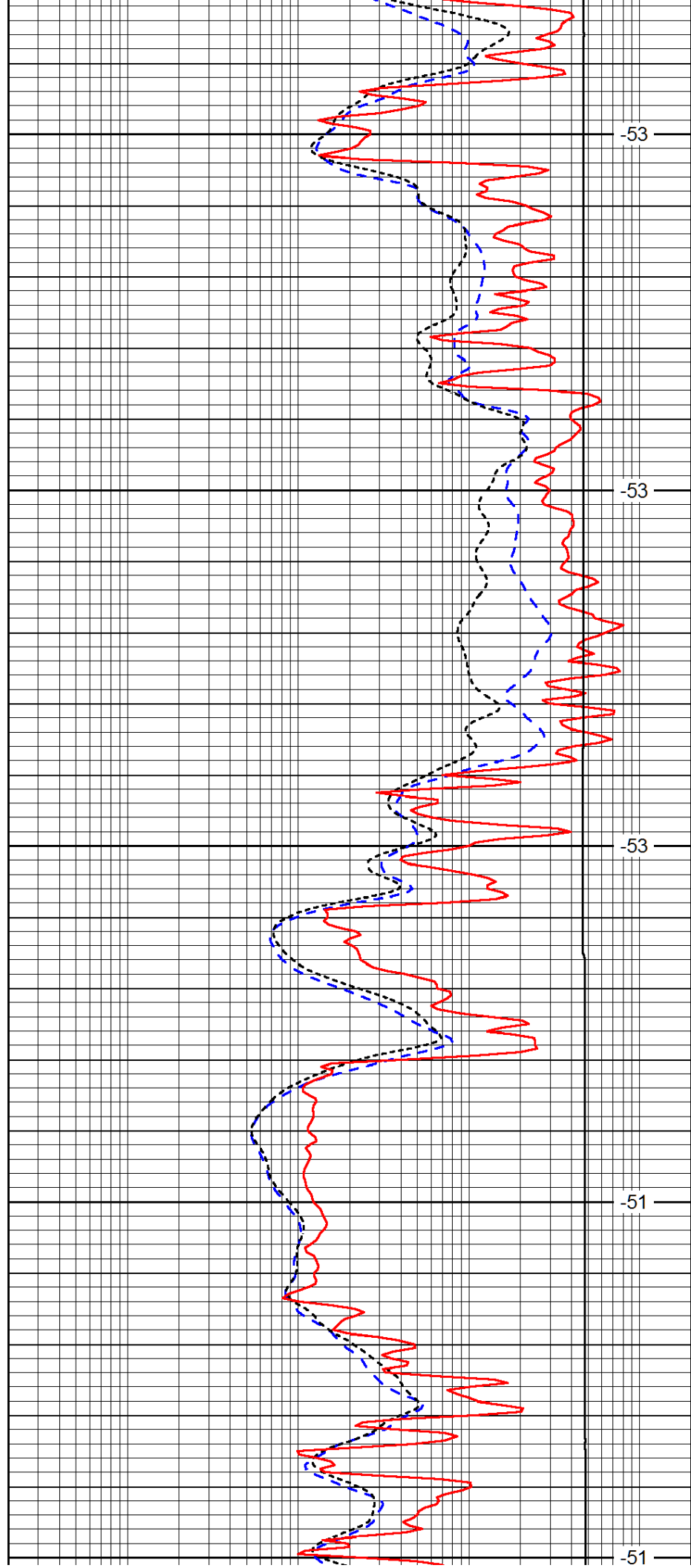
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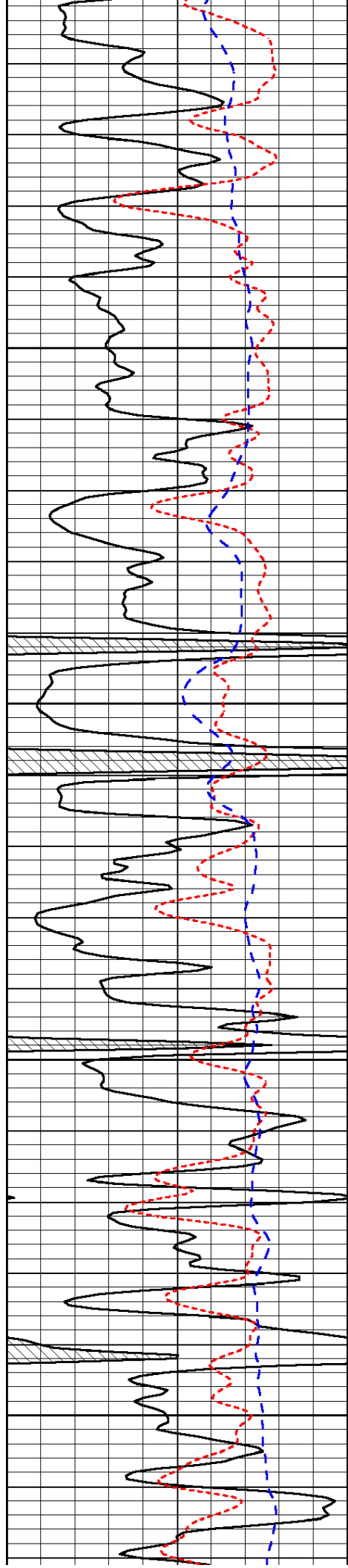
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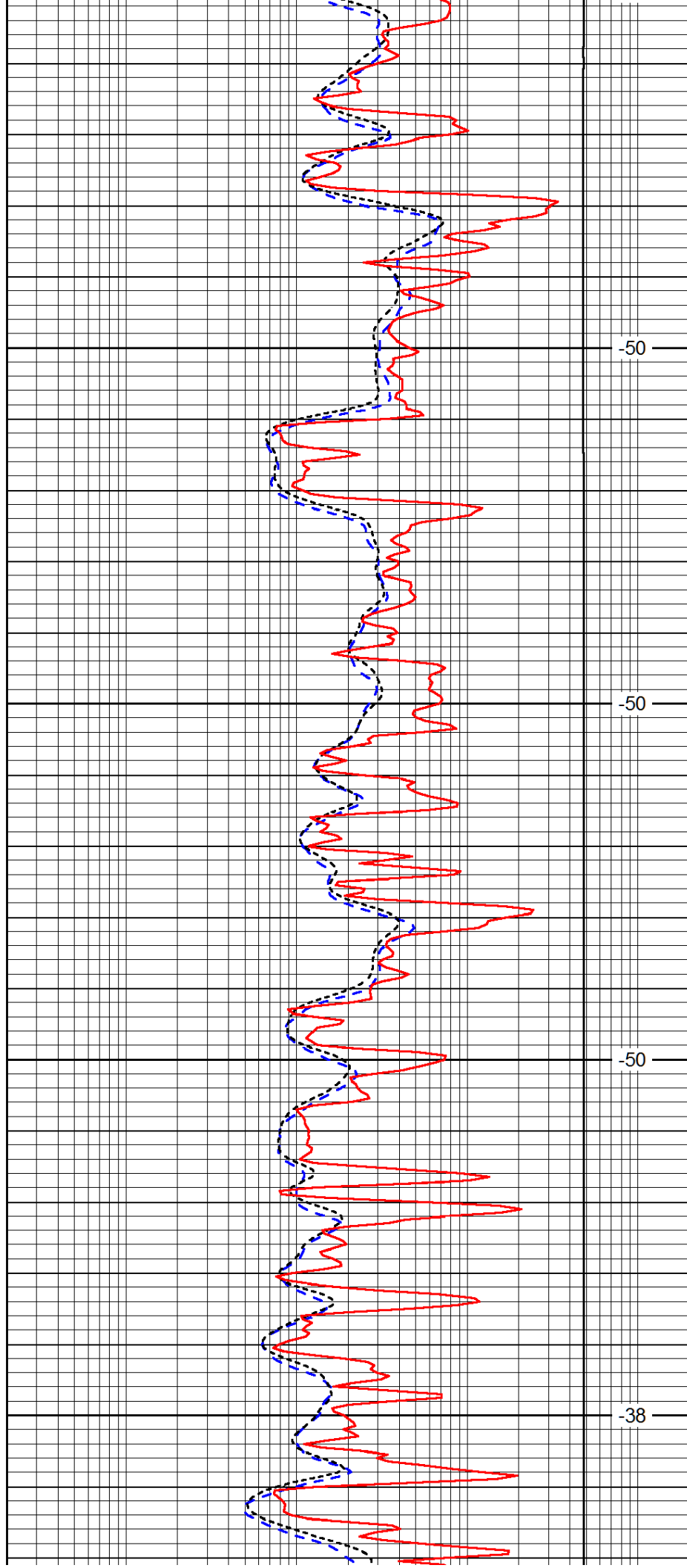


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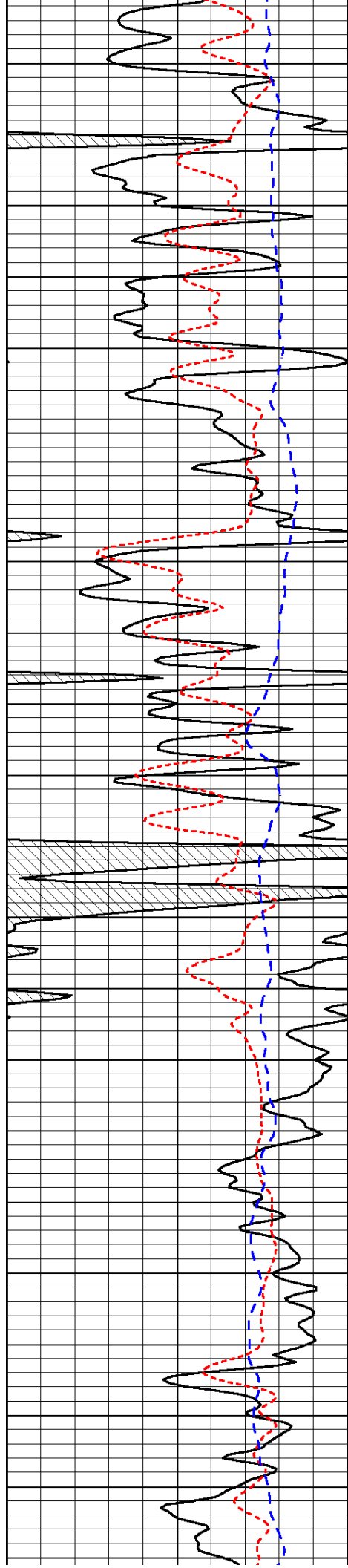


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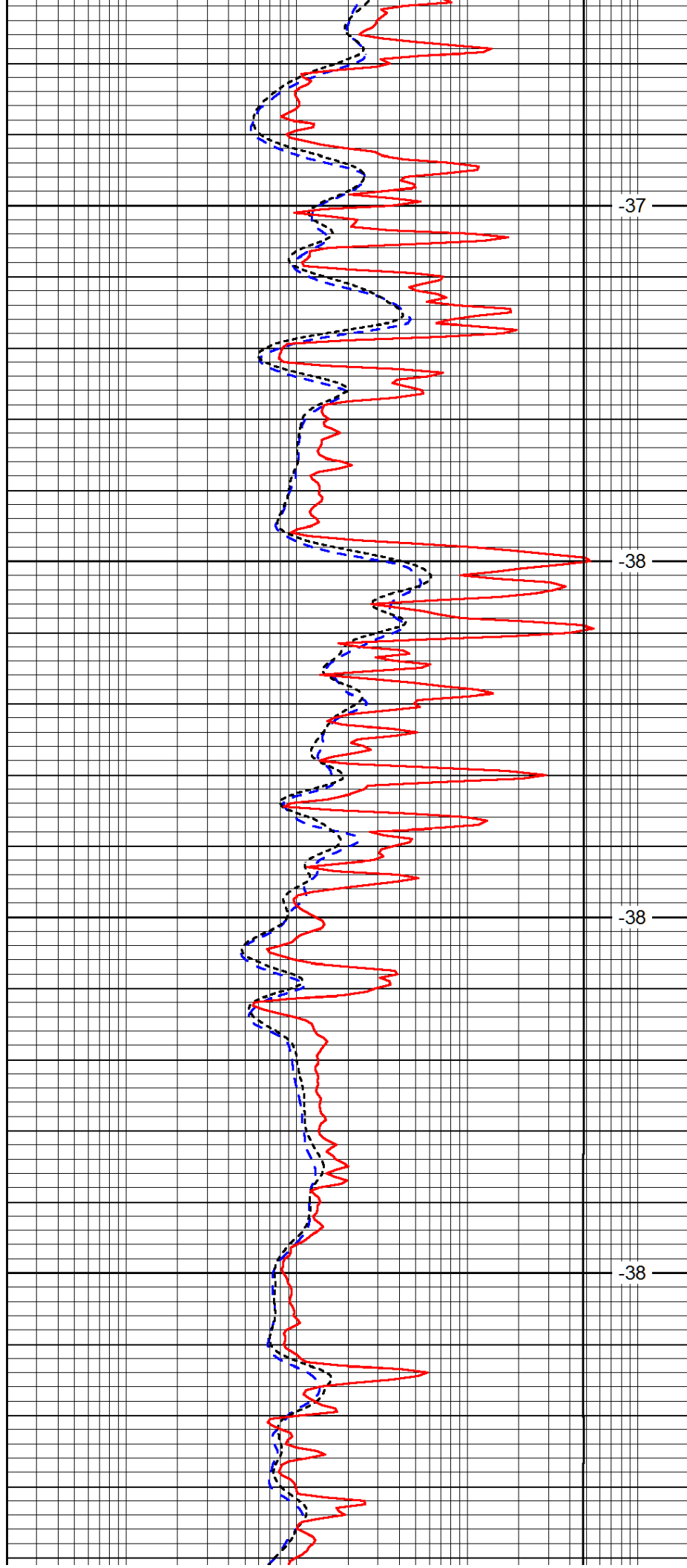


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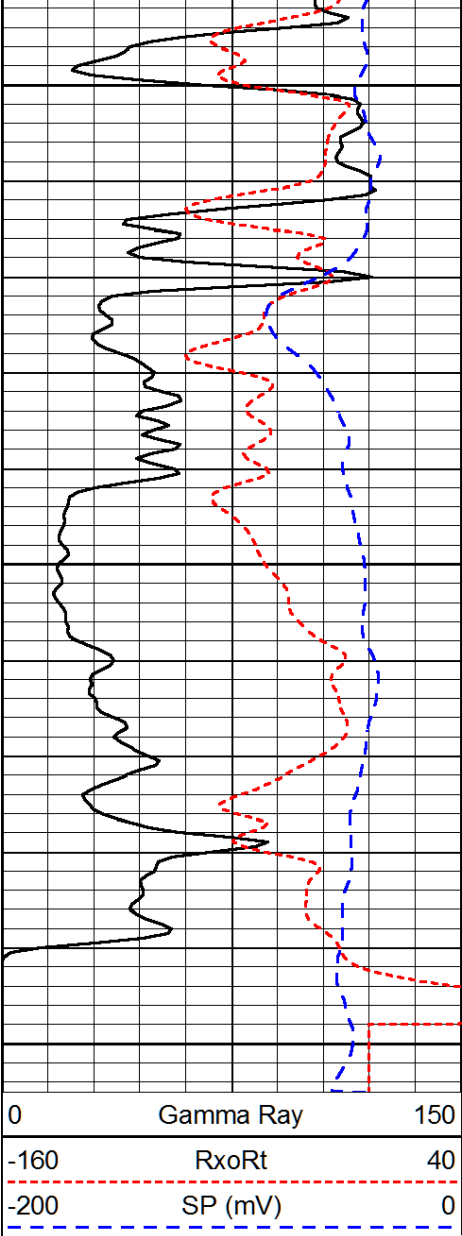


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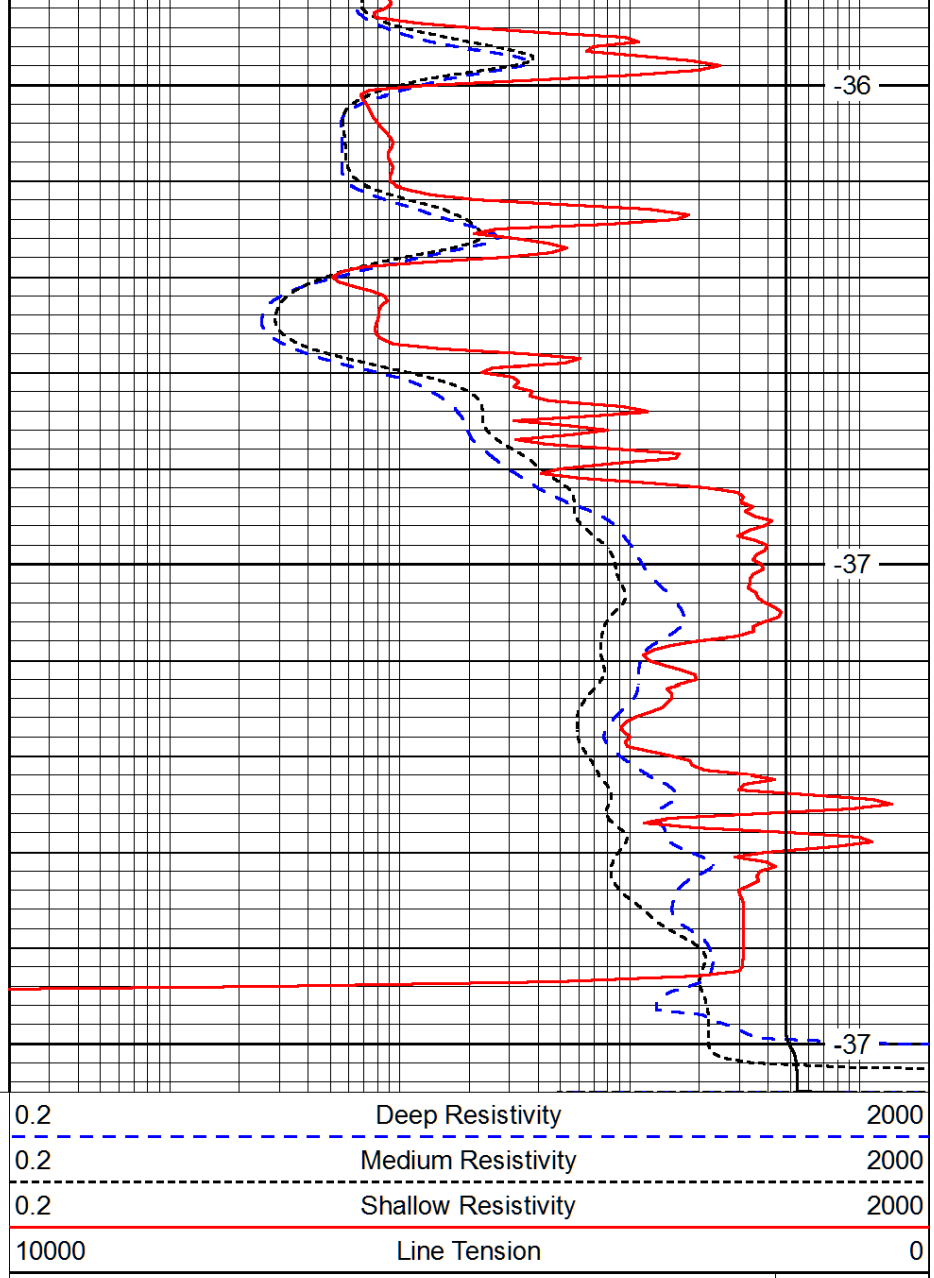
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5000



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LSPD