



Pioneer Energy Services

Dual Induction Log

API No.

15-023-21391-00-00

Company Murfin Drilling Company, Inc.

Well Jones B #3-9

Field Jones Canyon Southeast

County Cheyenne State Kansas

Location

660' FNL & 1980' FWL

Other Services
CNL/CDL
MEL/BHCS

Sec: 9

Twp: 1S

Rge: 37W

Elevation

Permanent Datum

Ground Level

Elevation 3202

Log Measured From

Kelly Bushing

10 Ft. Above Perm. Datum

Drilling Measured From

Kelly Bushing

K.B. 3212
D.F.
G.L. 3202

Date

05/22/2014

Run Number

One

Depth Driller

4740

Depth Logger

4737

Bottom Logged Interval

4736

Top Log Interval

0

Casing Driller

8.625 @ 226

Casing Logger

223

Bit Size

7.825

Type Fluid in Hole

Chemical

Salinity, ppm CL

1400

Density / Viscosity

9.1 76

pH / Fluid Loss

11.0 6.0

Source of Sample

Flowline

Rm @ Meas. Temp

0.50 @ 80

Rmf @ Meas. Temp

0.38 @ 80

Rmc @ Meas. Temp

0.68 @ 80

Source of Rmf / Rmc

Charts

Rm @ BHT

0.32 @ 125

Operating Rig Time

6 Hours

Max Rec. Temp. F

125

Equipment Number

91

Location

Hays

Recorded By

D. Schmidt

Witnessed By

Ken Wallace

<<< Fold Here >>>

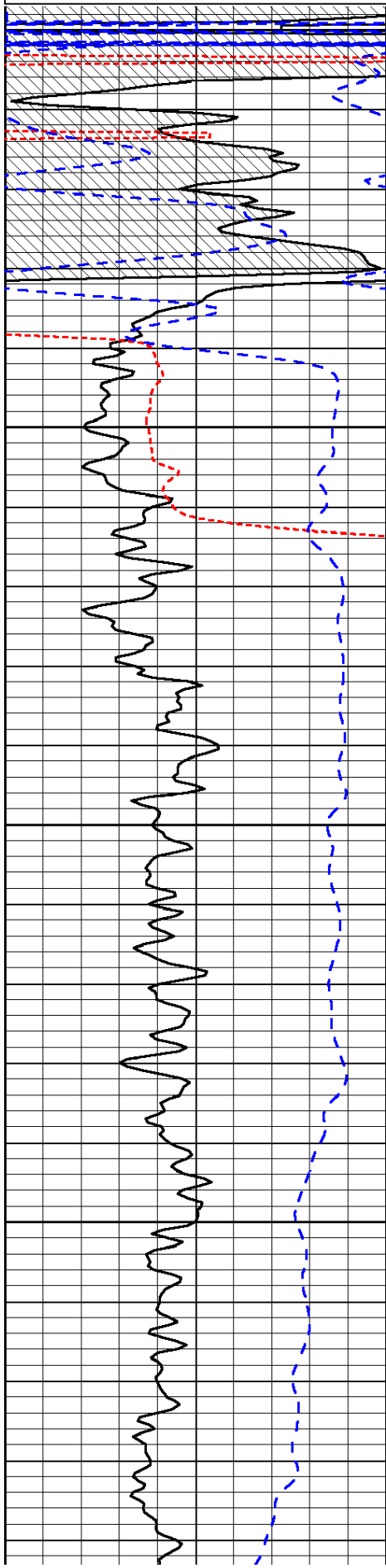
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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
Bird City,
North to EE Rd,
3 East road curves South,
1 South, East into

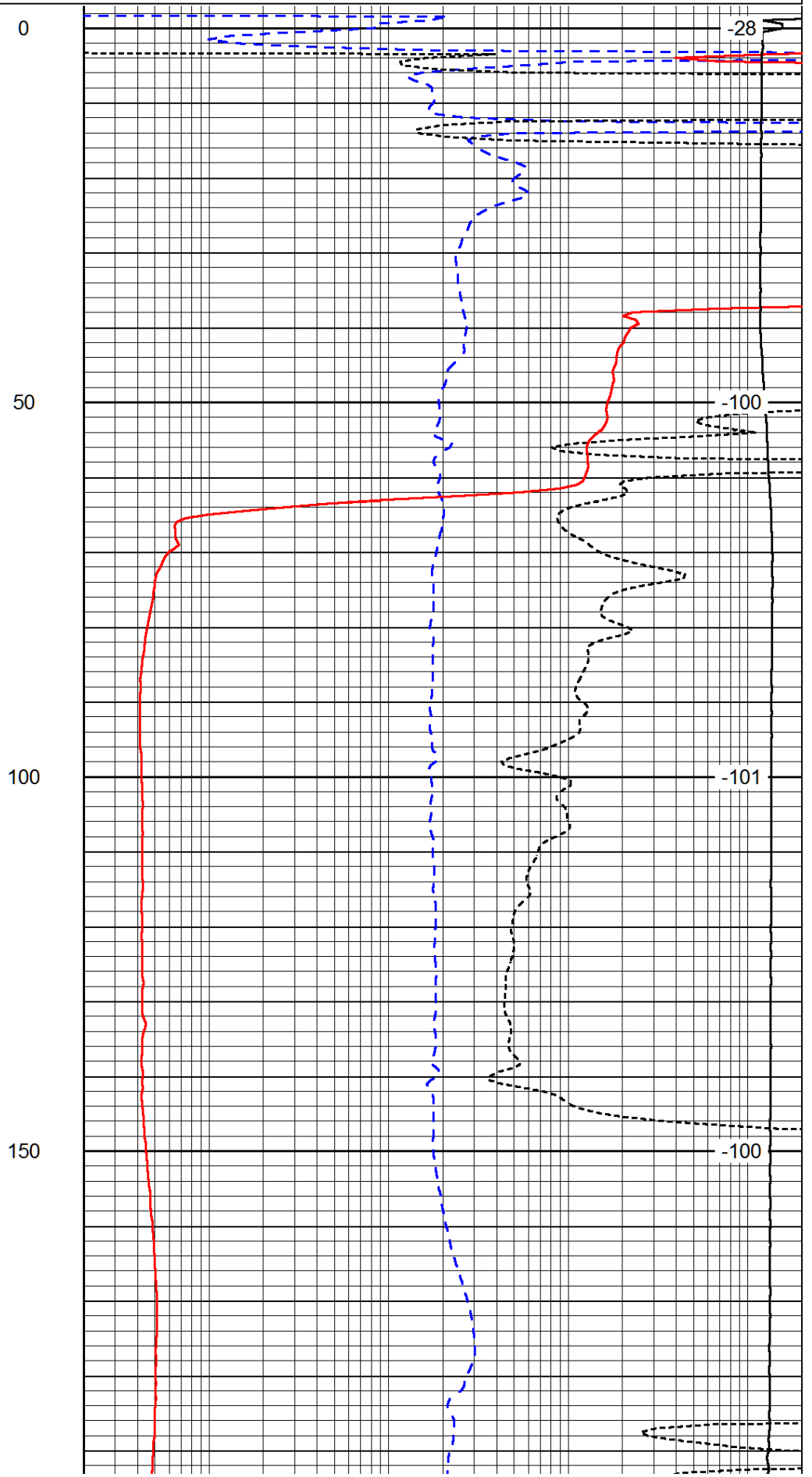
Database File: murfin_052214hd.db
Dataset Pathname: dil/mrfstck
Presentation Format: dil
Dataset Creation: Thu May 22 19:42:32 2014
Charted by: Depth in Feet scaled 1:240

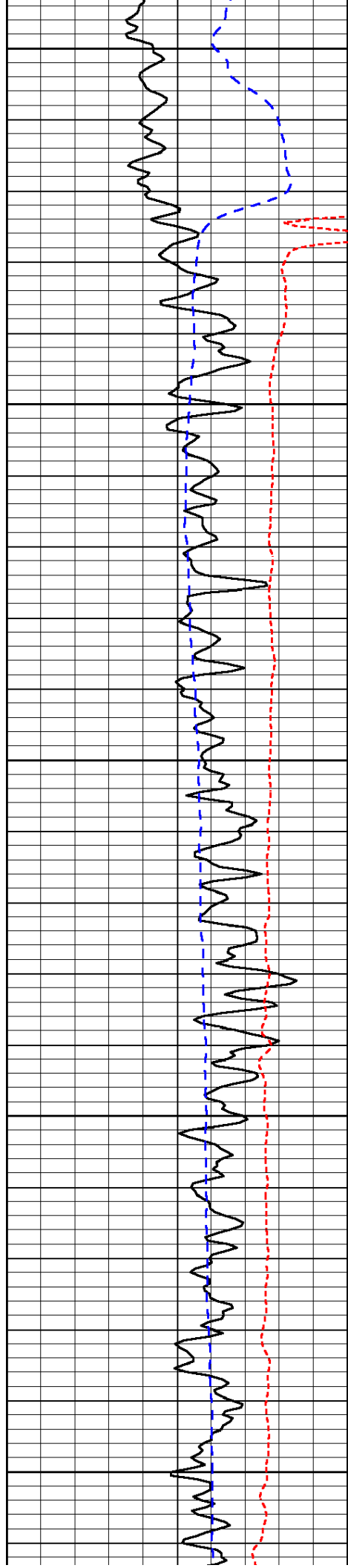
0	Gamma Ray	150
-160	RXO/RT	40
-200	SP (mV)	0



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

LSPD





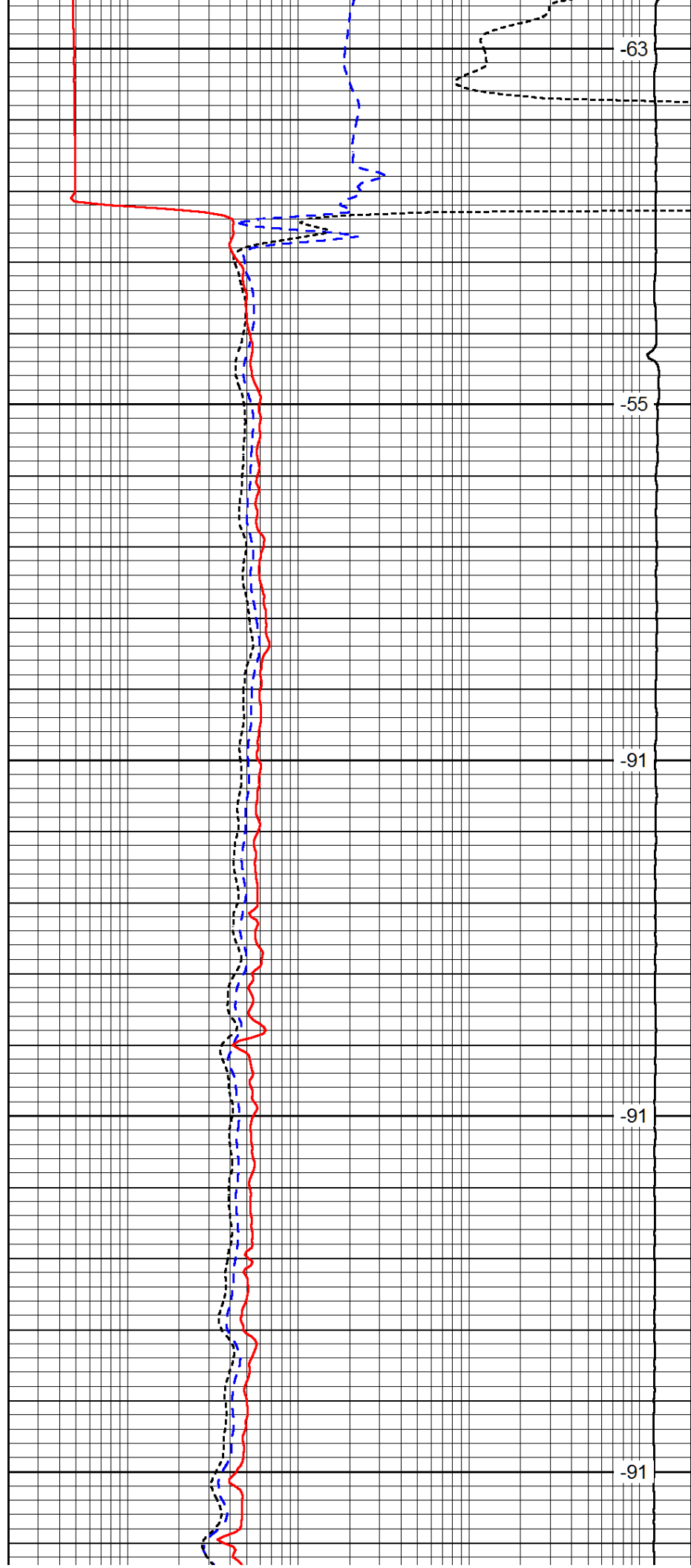
200

250

300

350

400



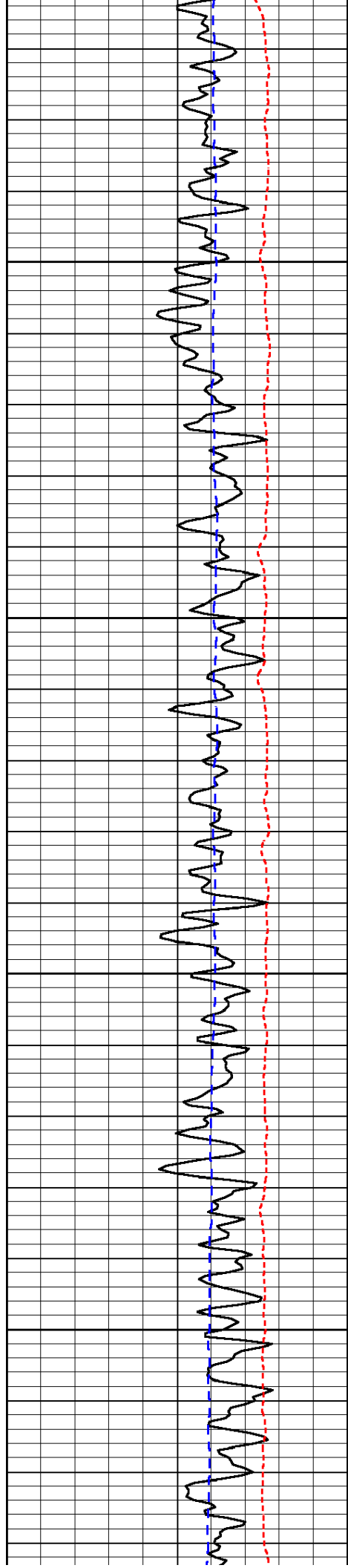
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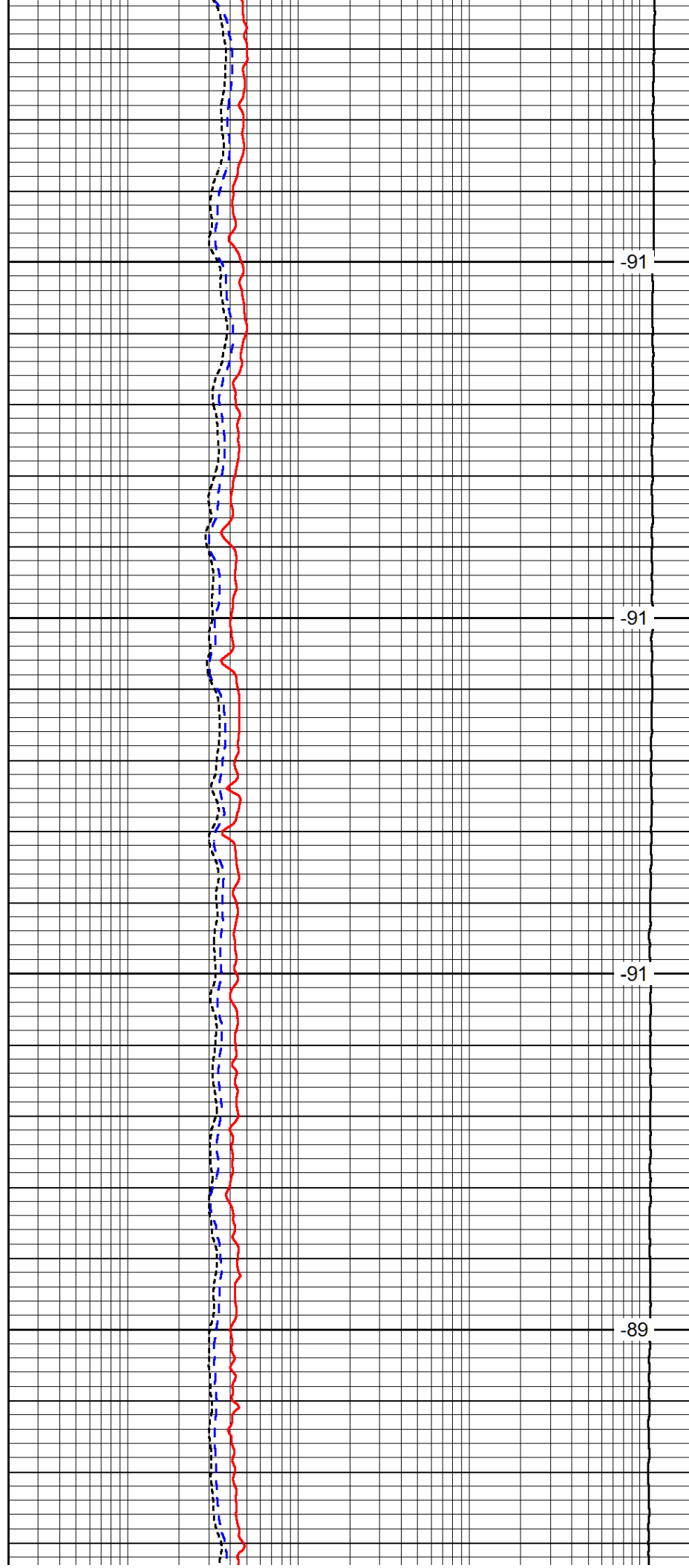


450

500

550

600

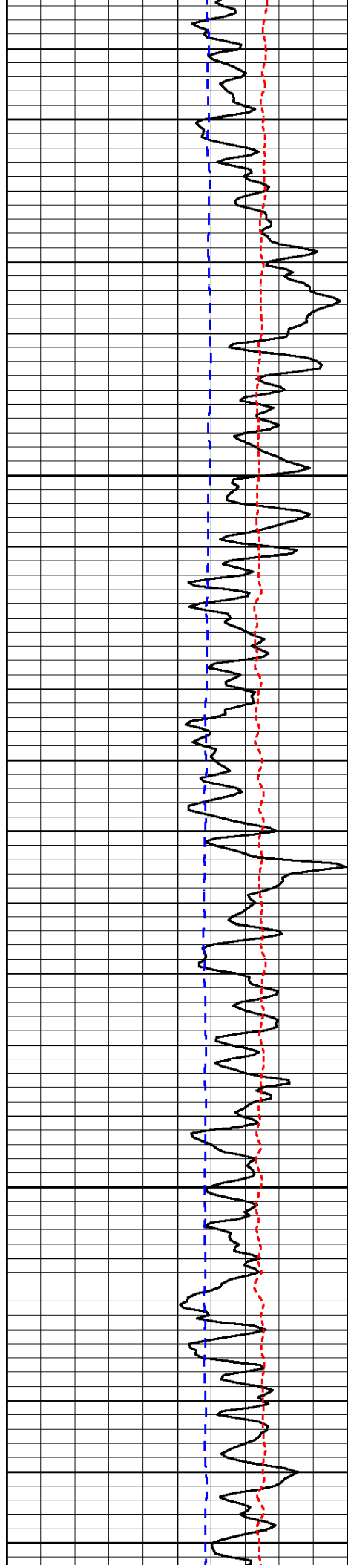


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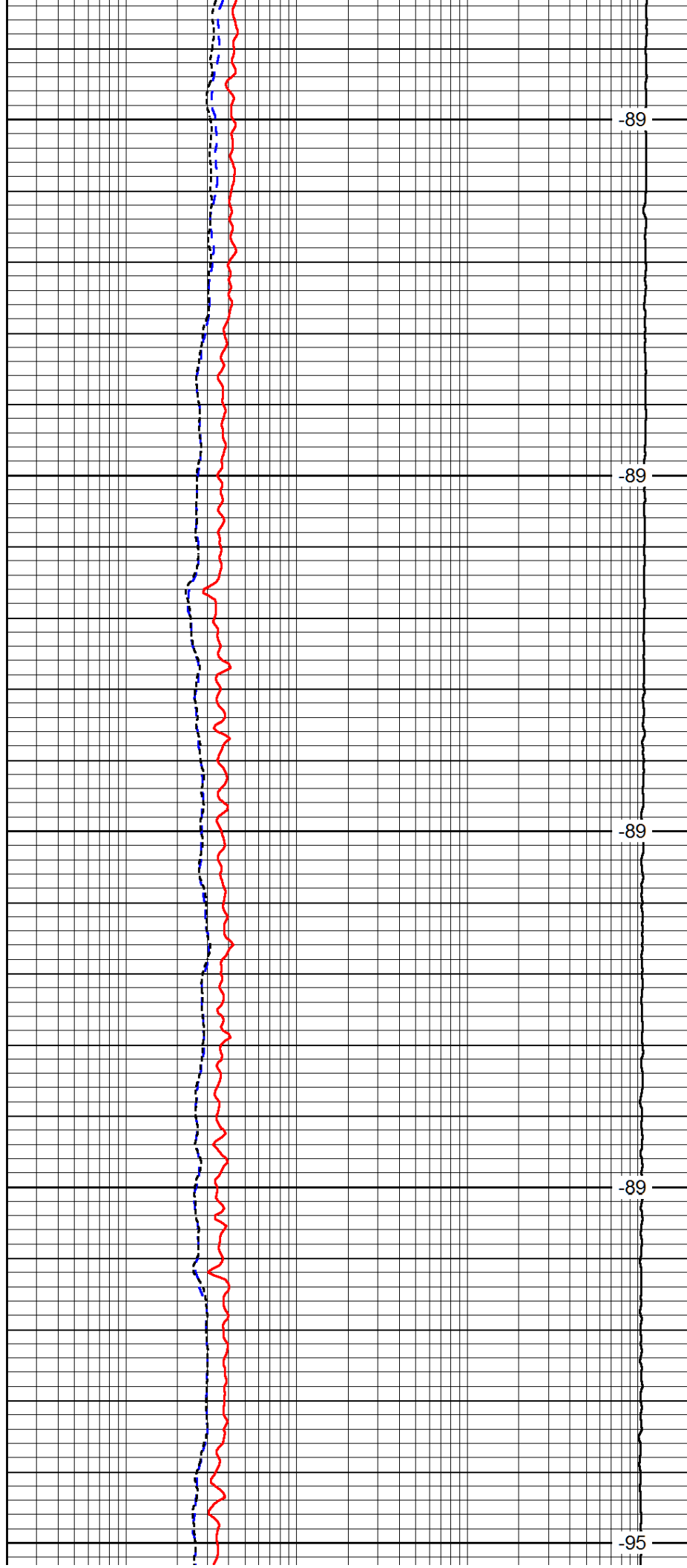
650

700

750

800

850



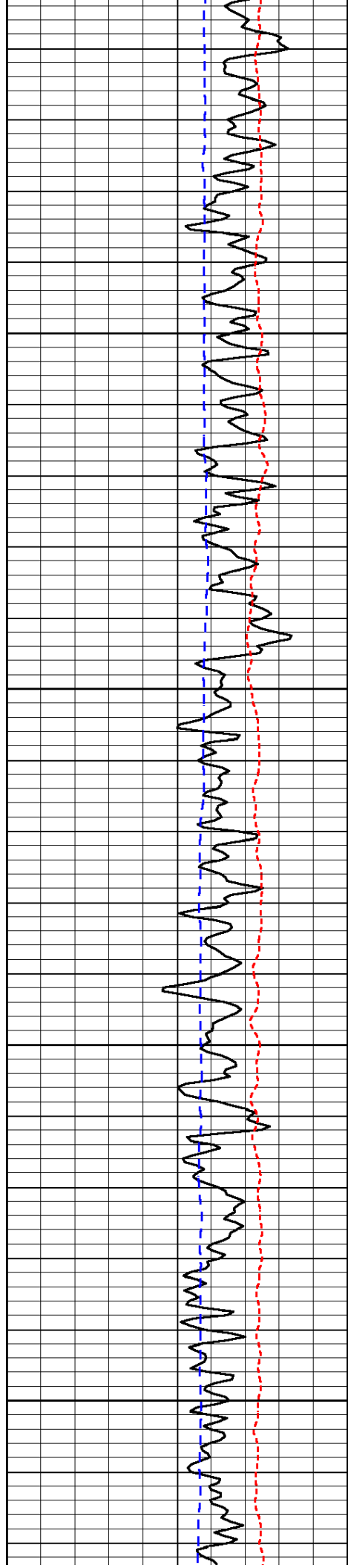
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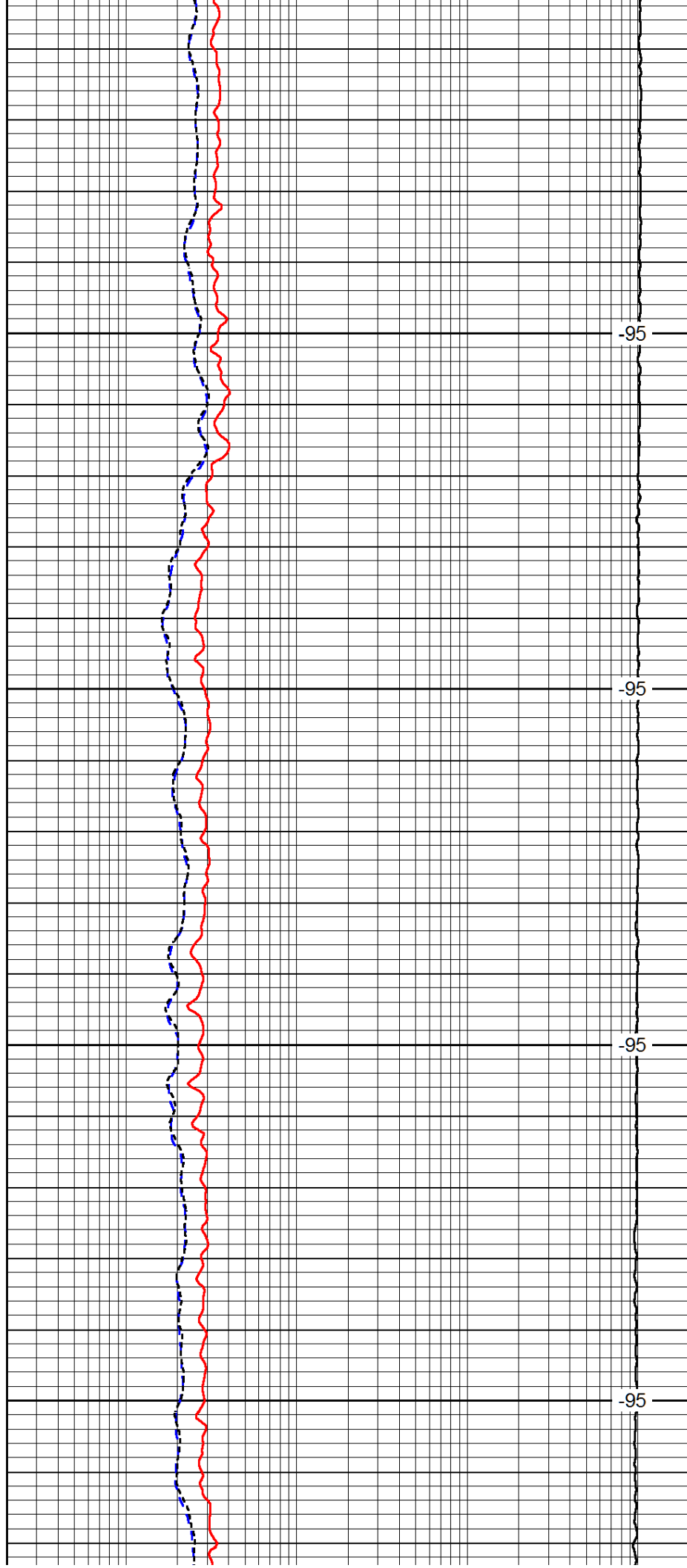


900

950

1000

1050

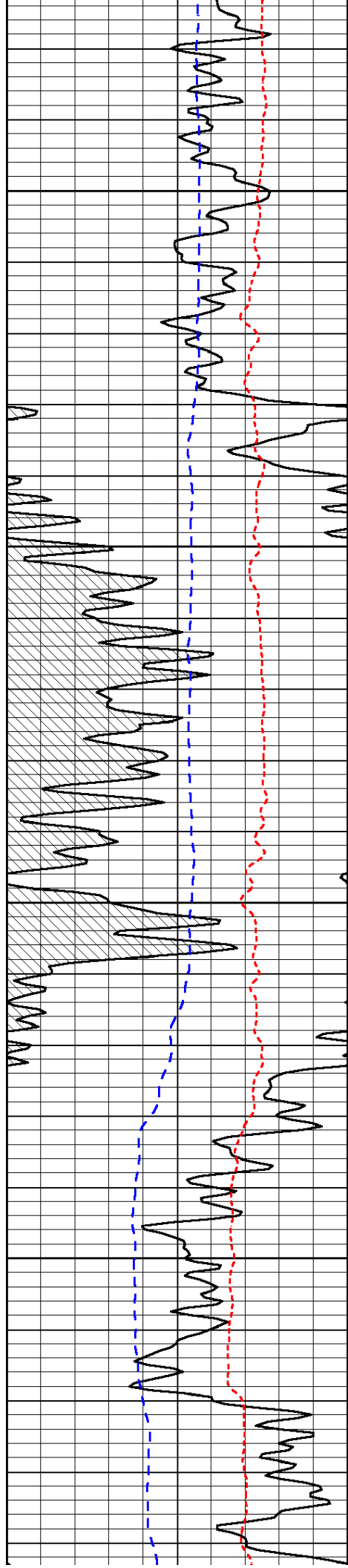


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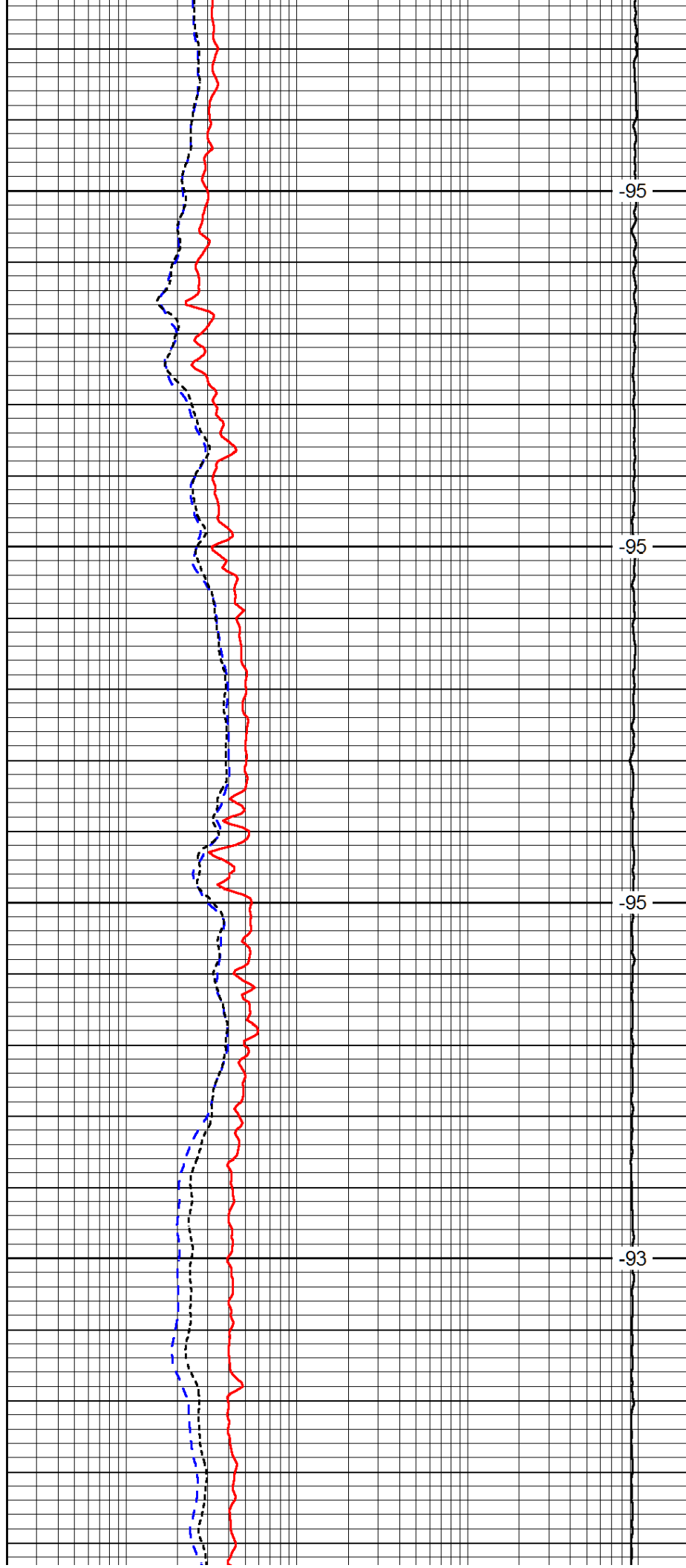


1100

1150

1200

1250

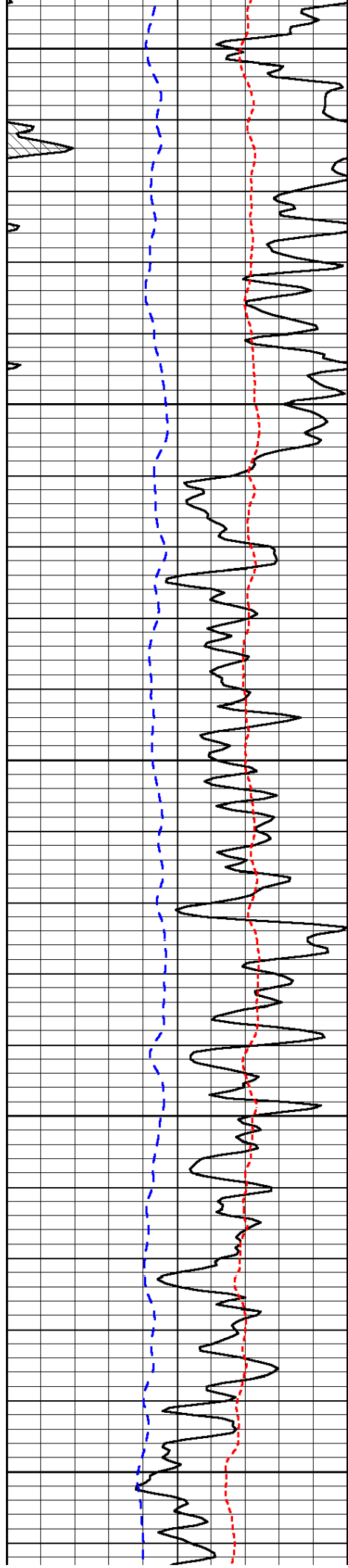


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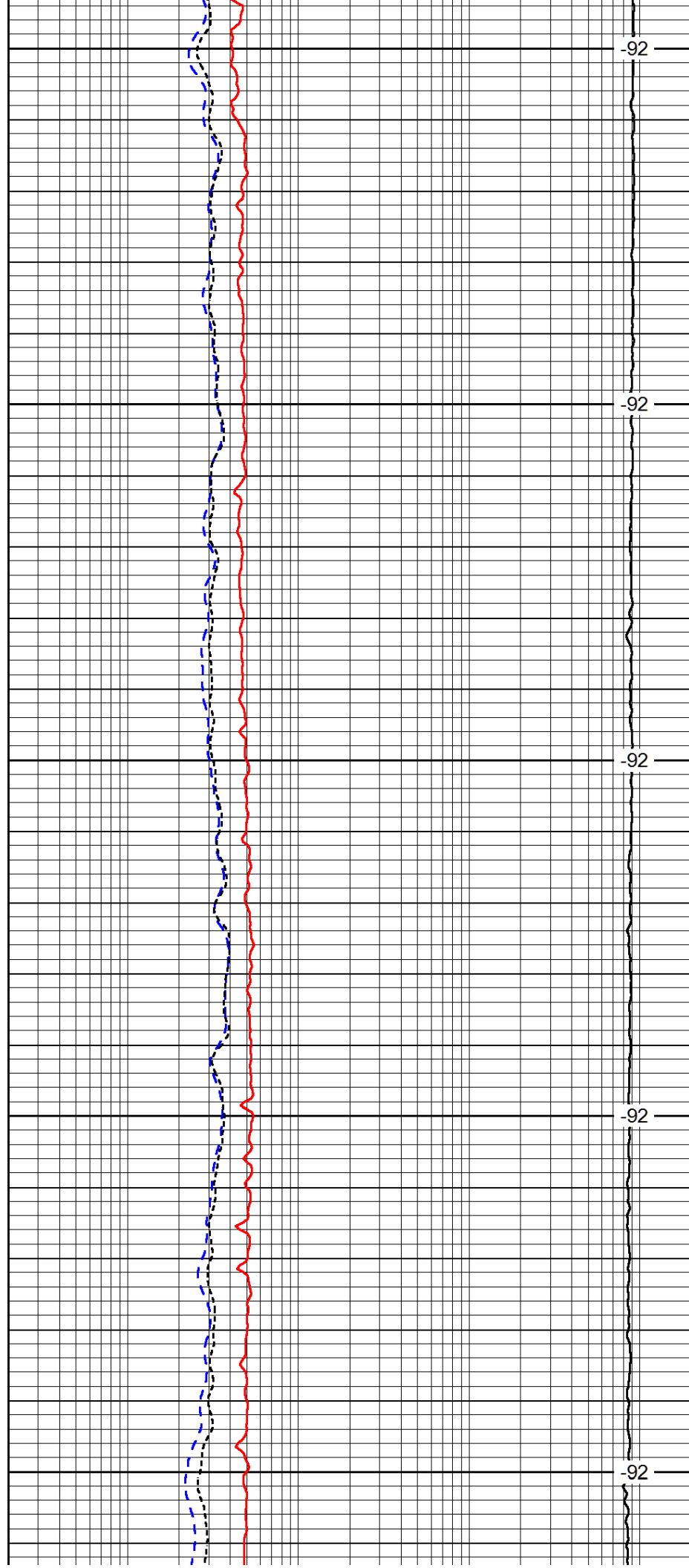
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1350

1400

1450

1500



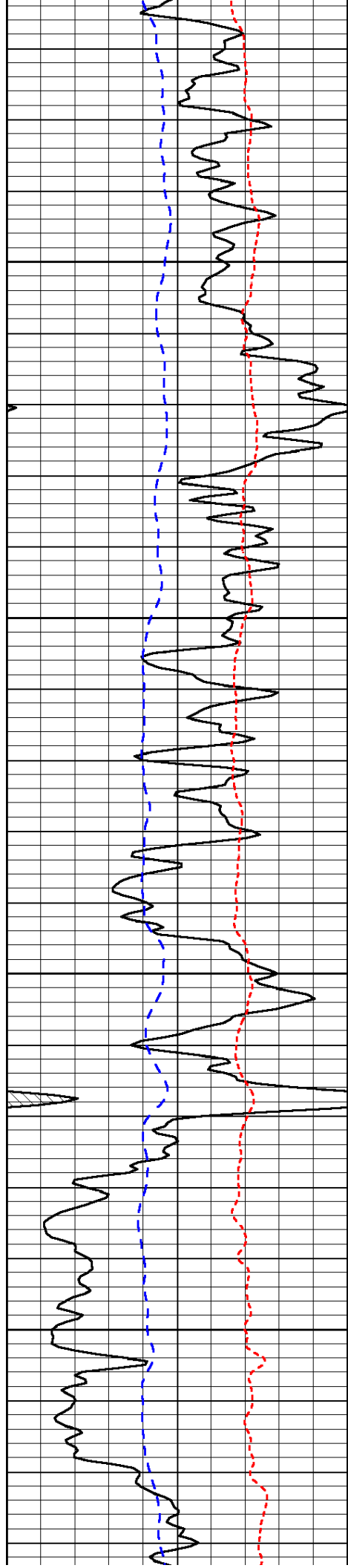
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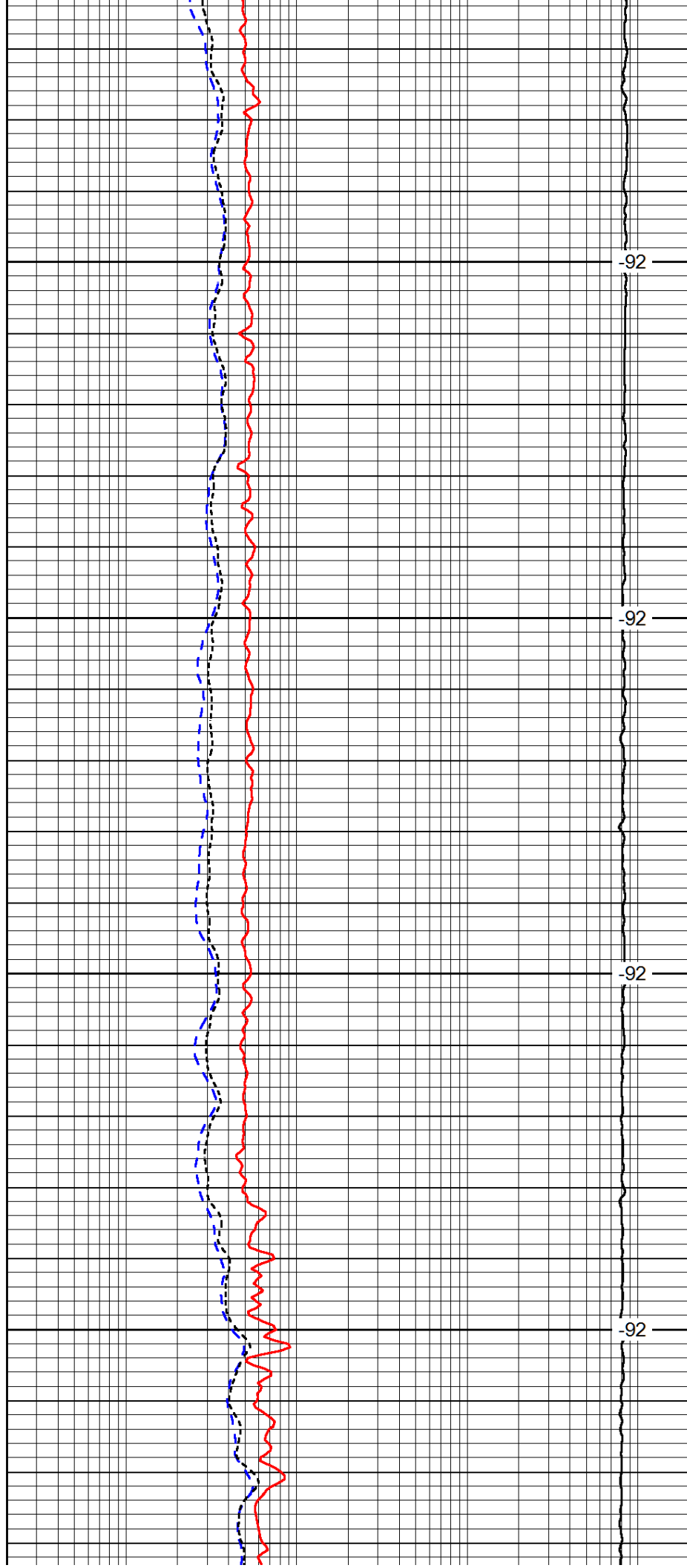


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1600

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1700

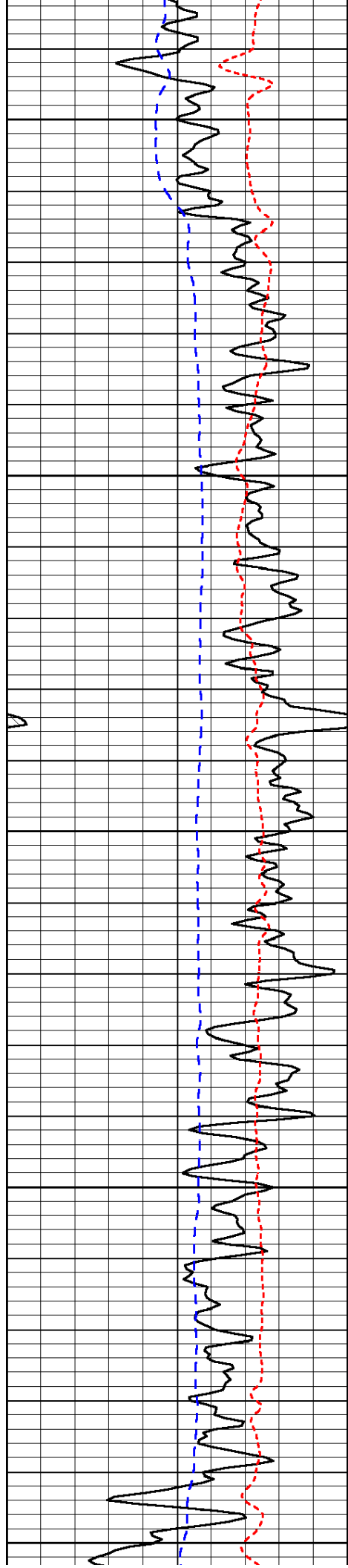


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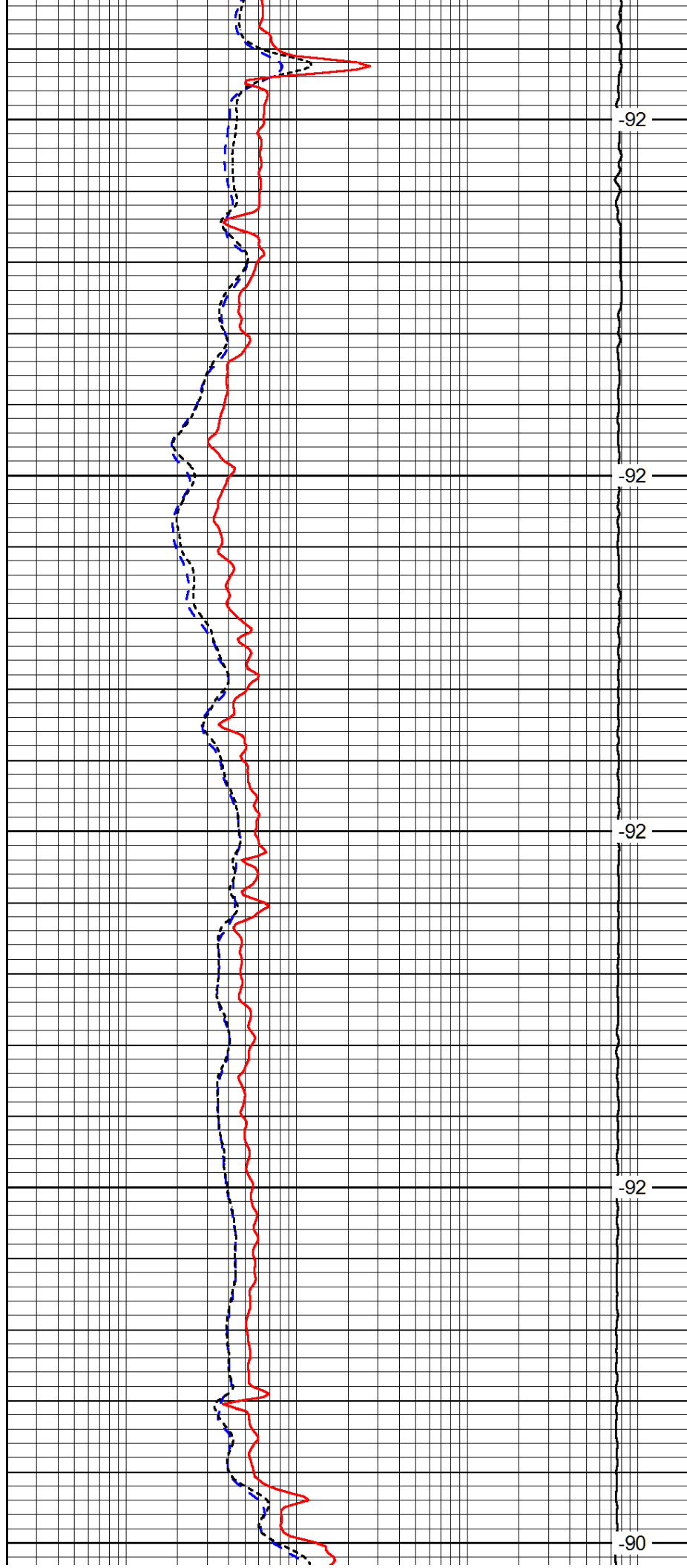
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1800

1850

1900

1950



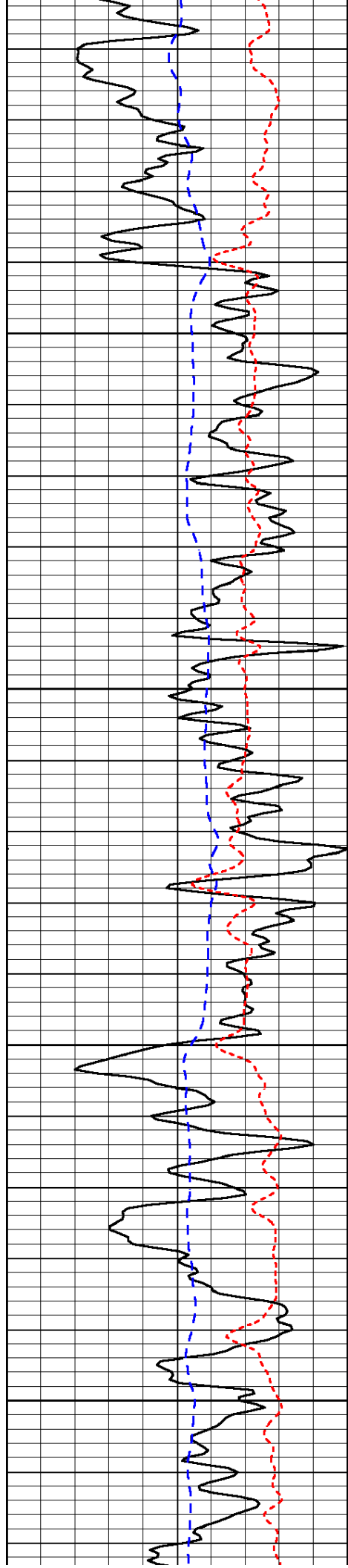
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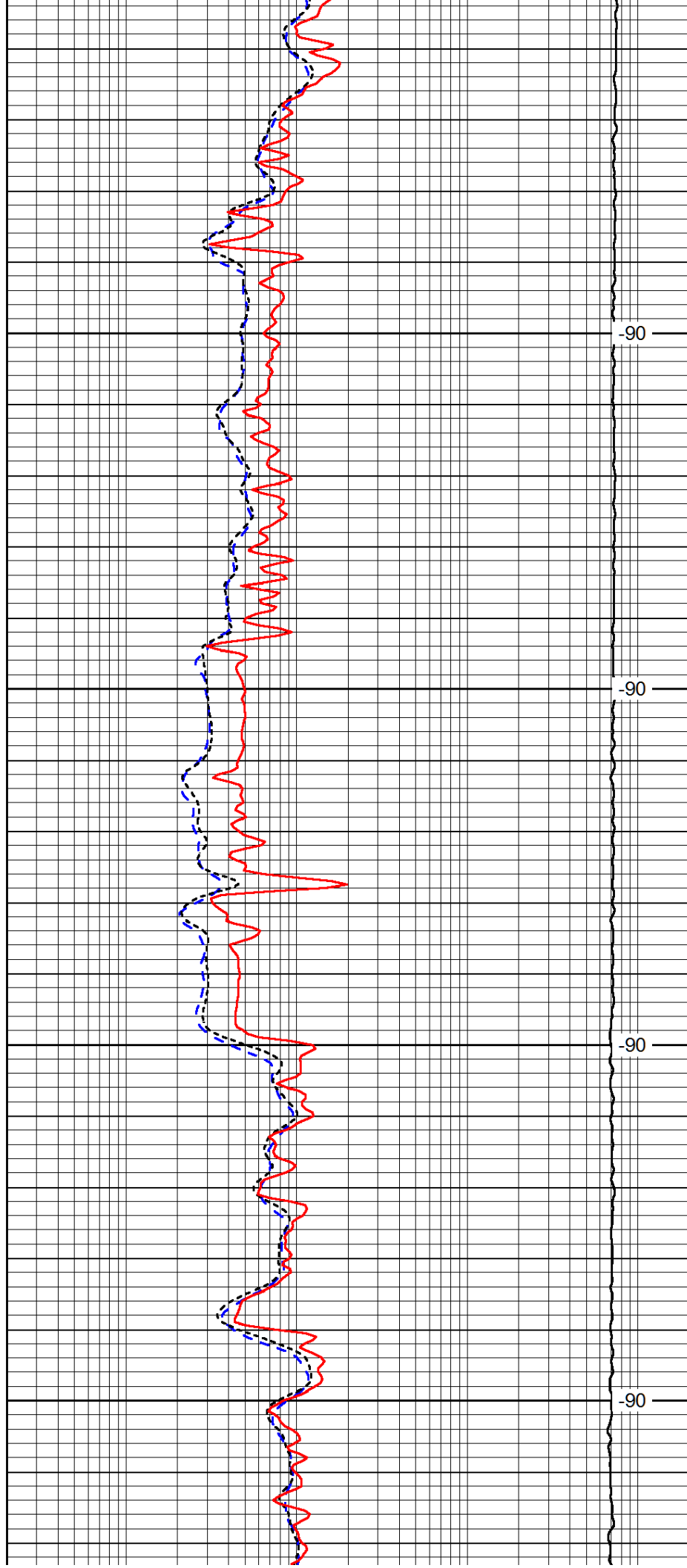


2000

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2100

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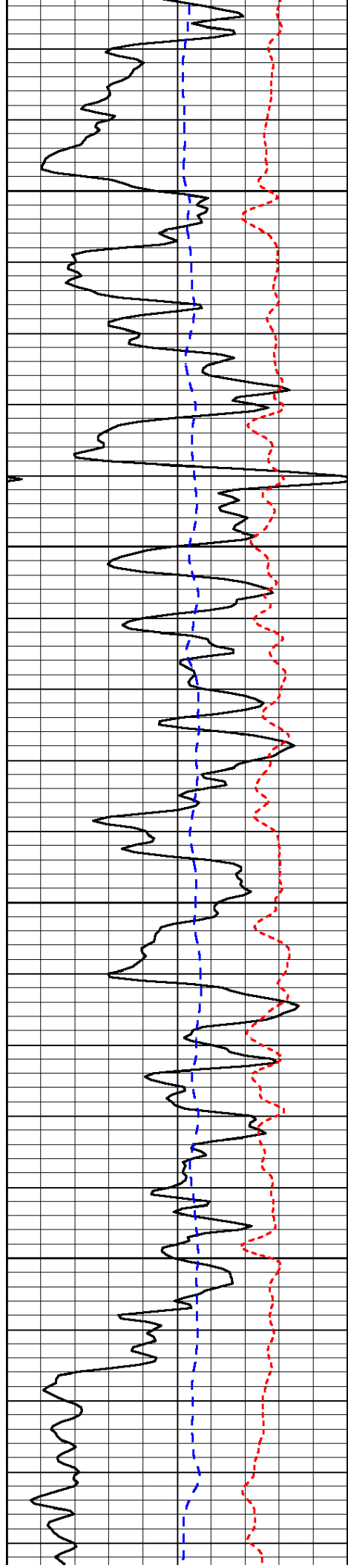


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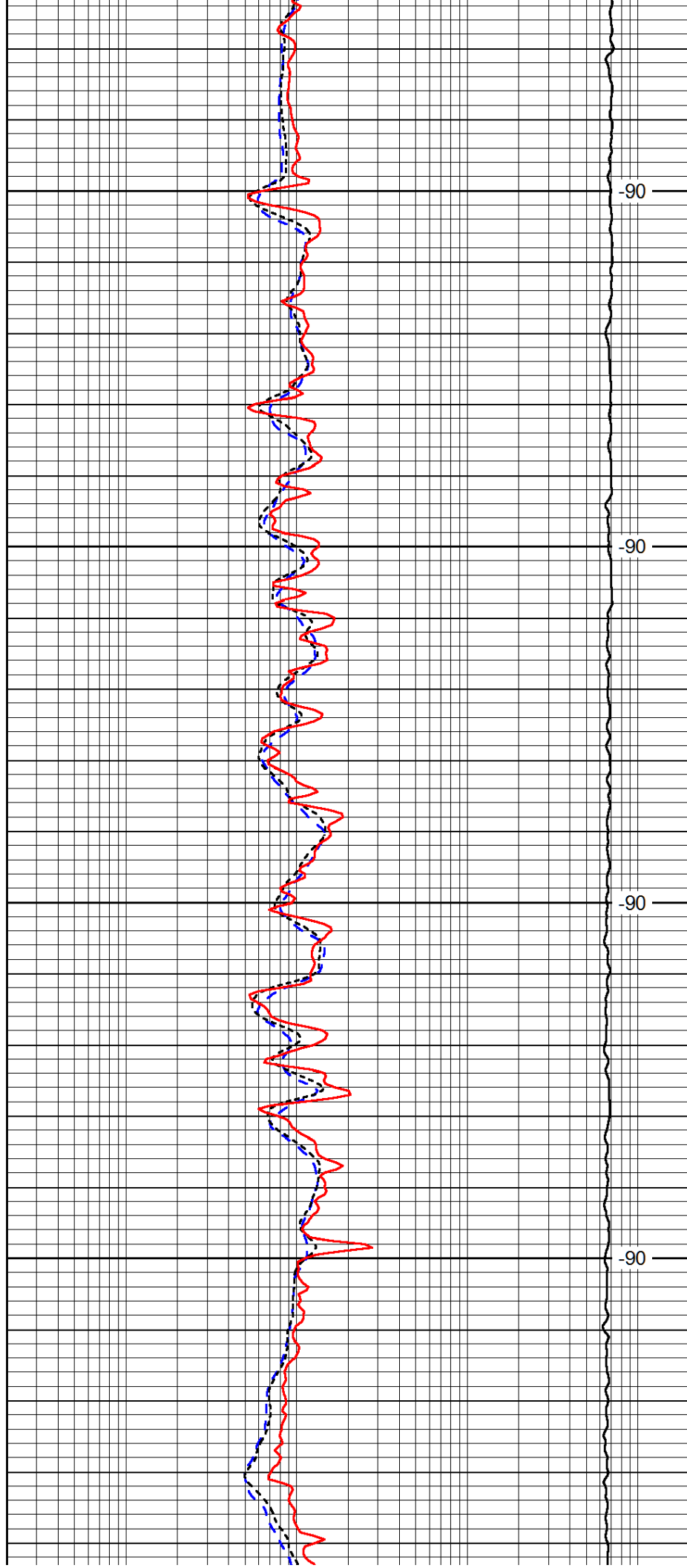


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2250

2300

2350

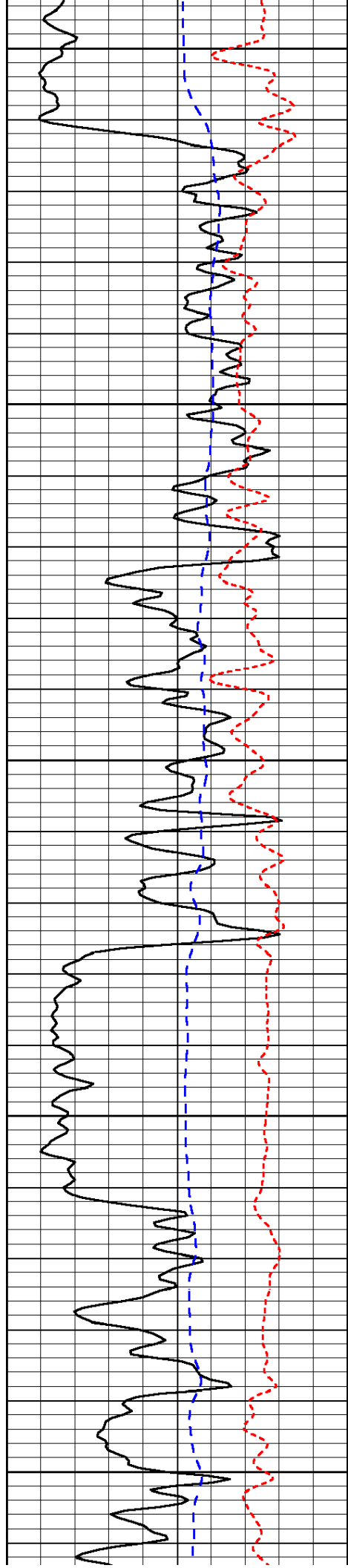


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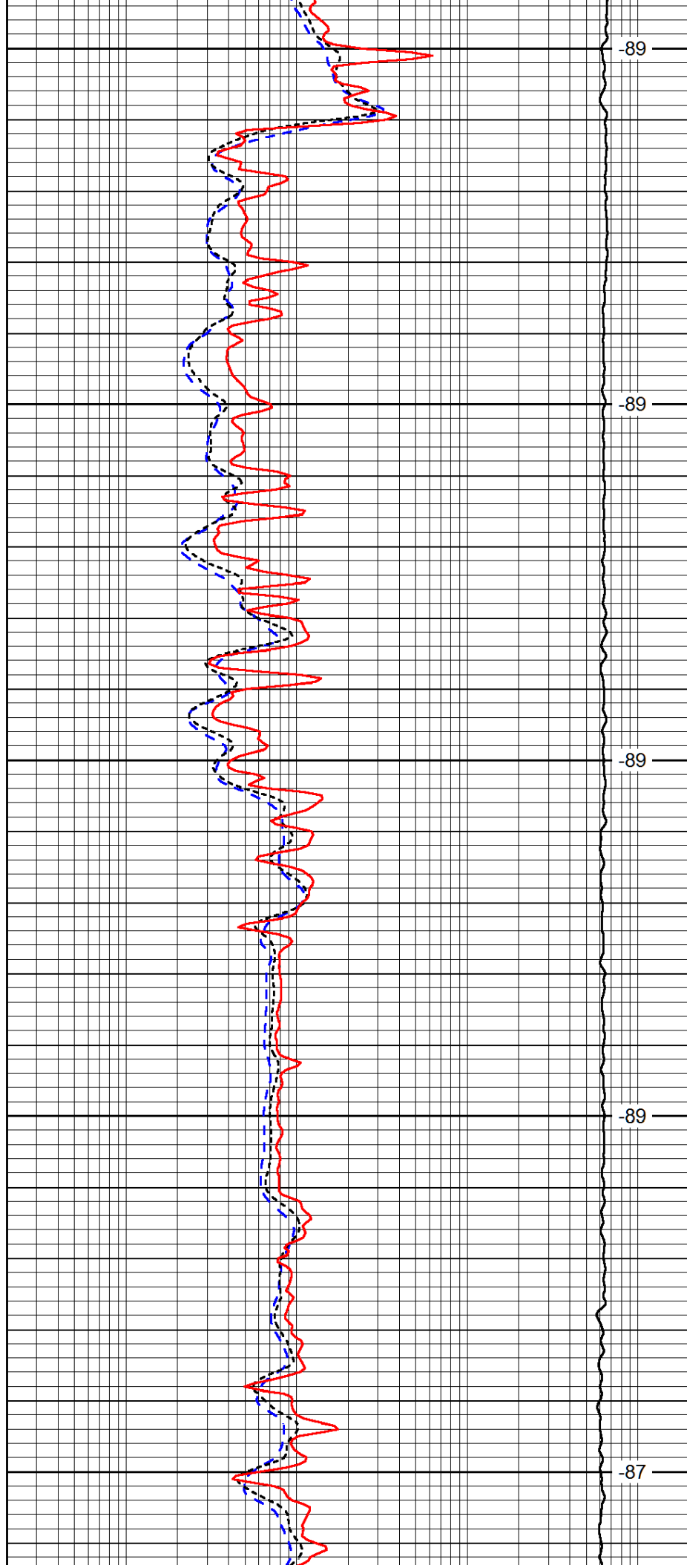
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2450

2500

2550

2600



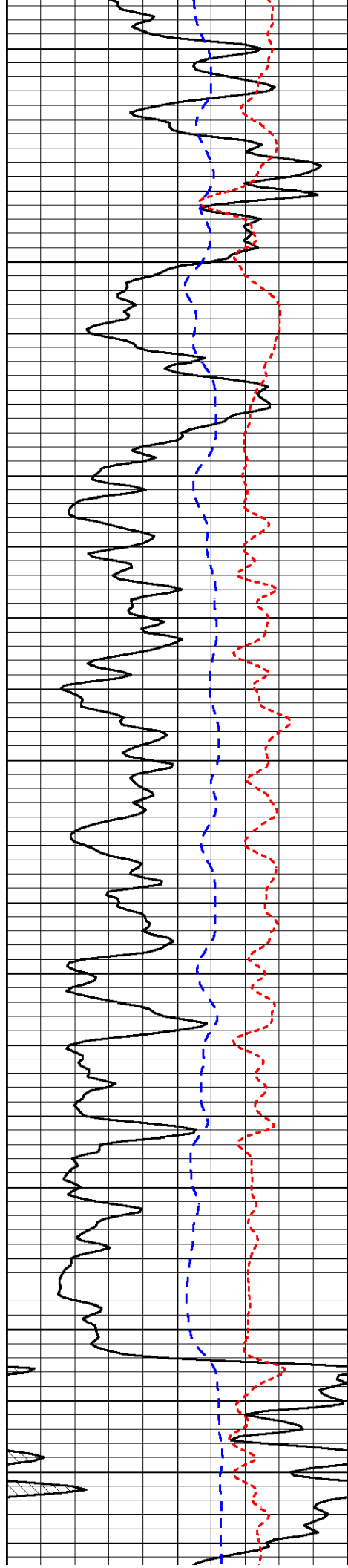
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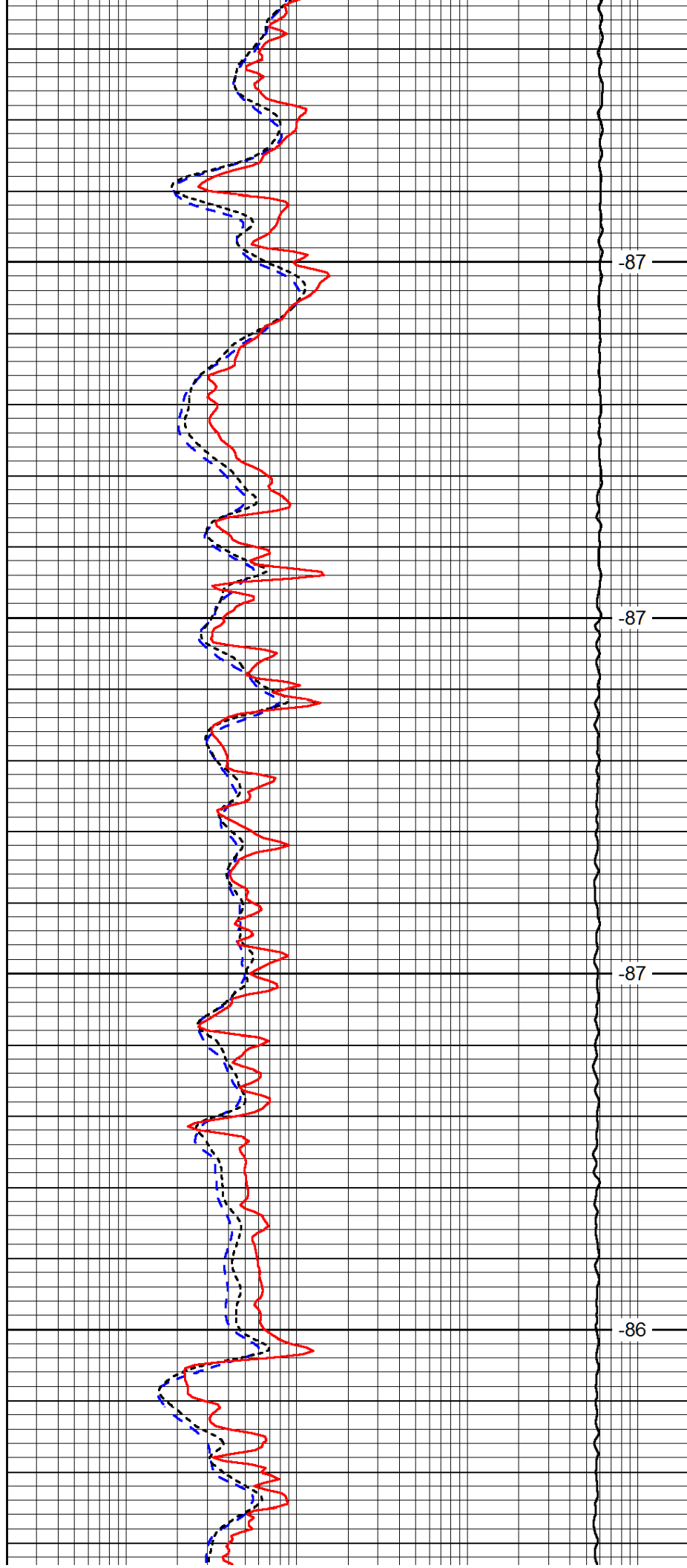


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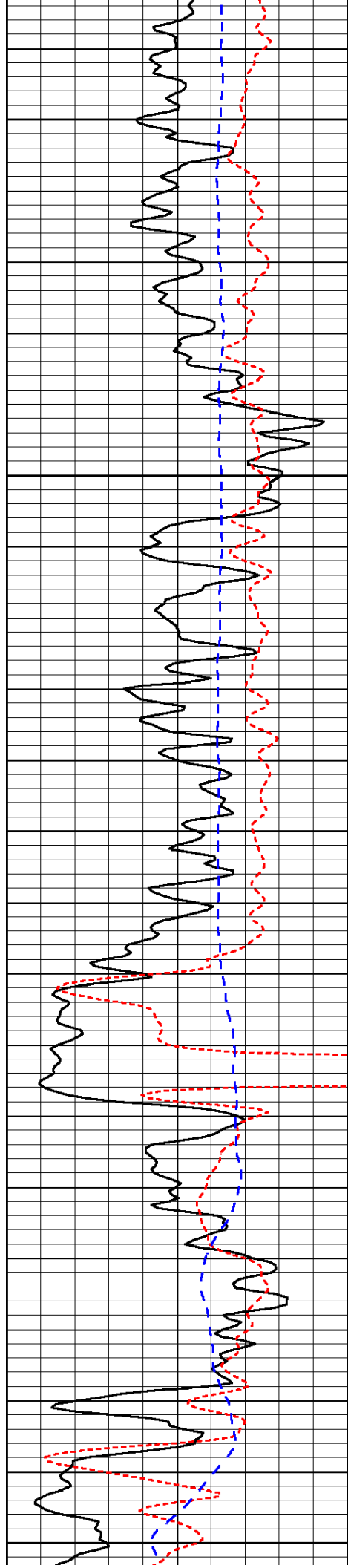


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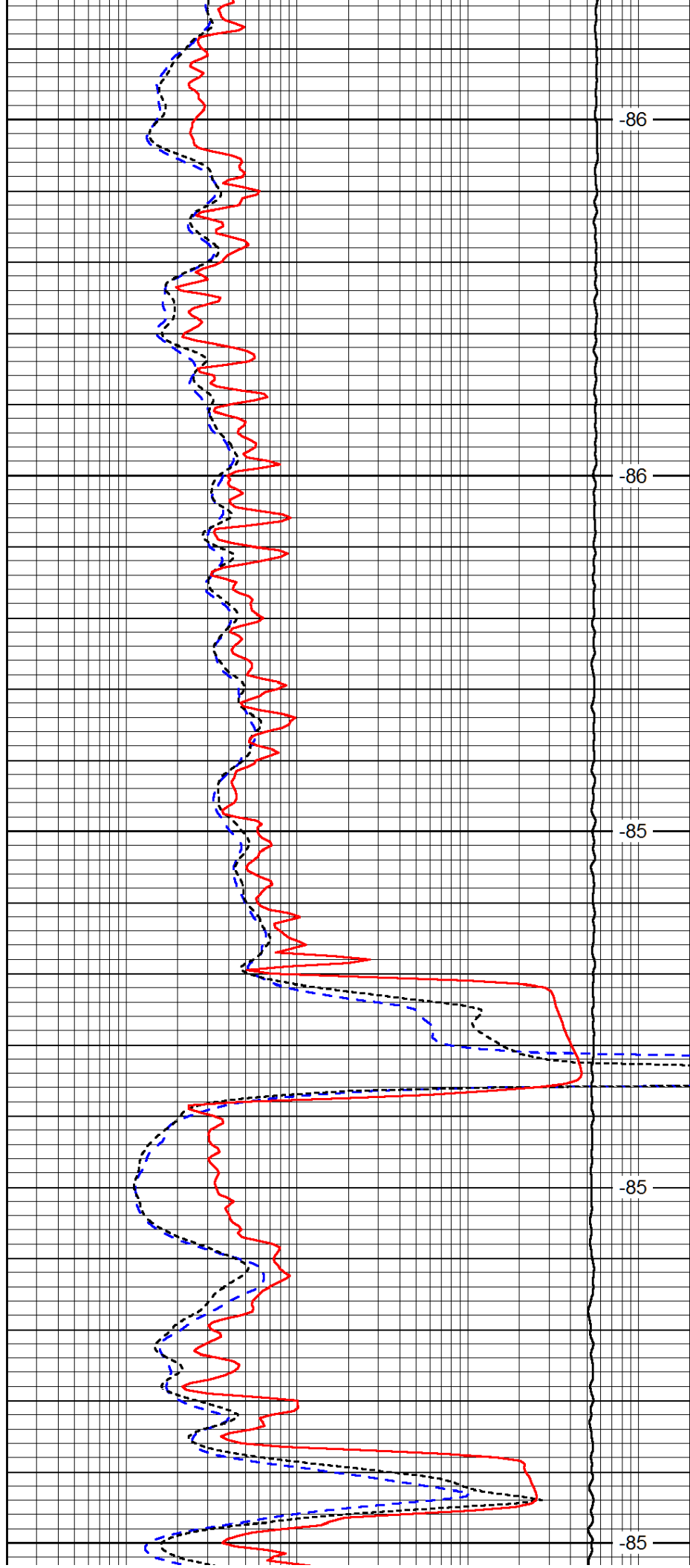
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2900

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3050



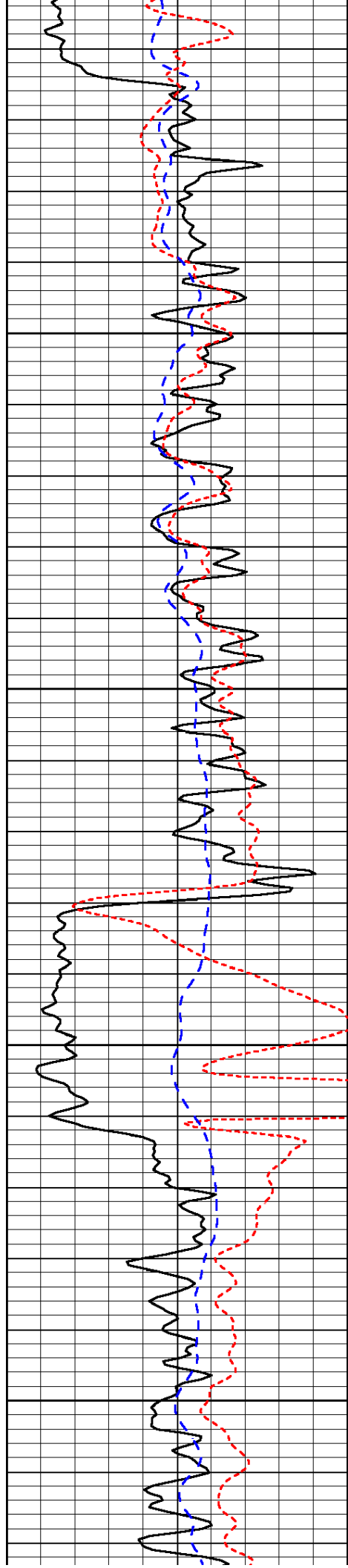
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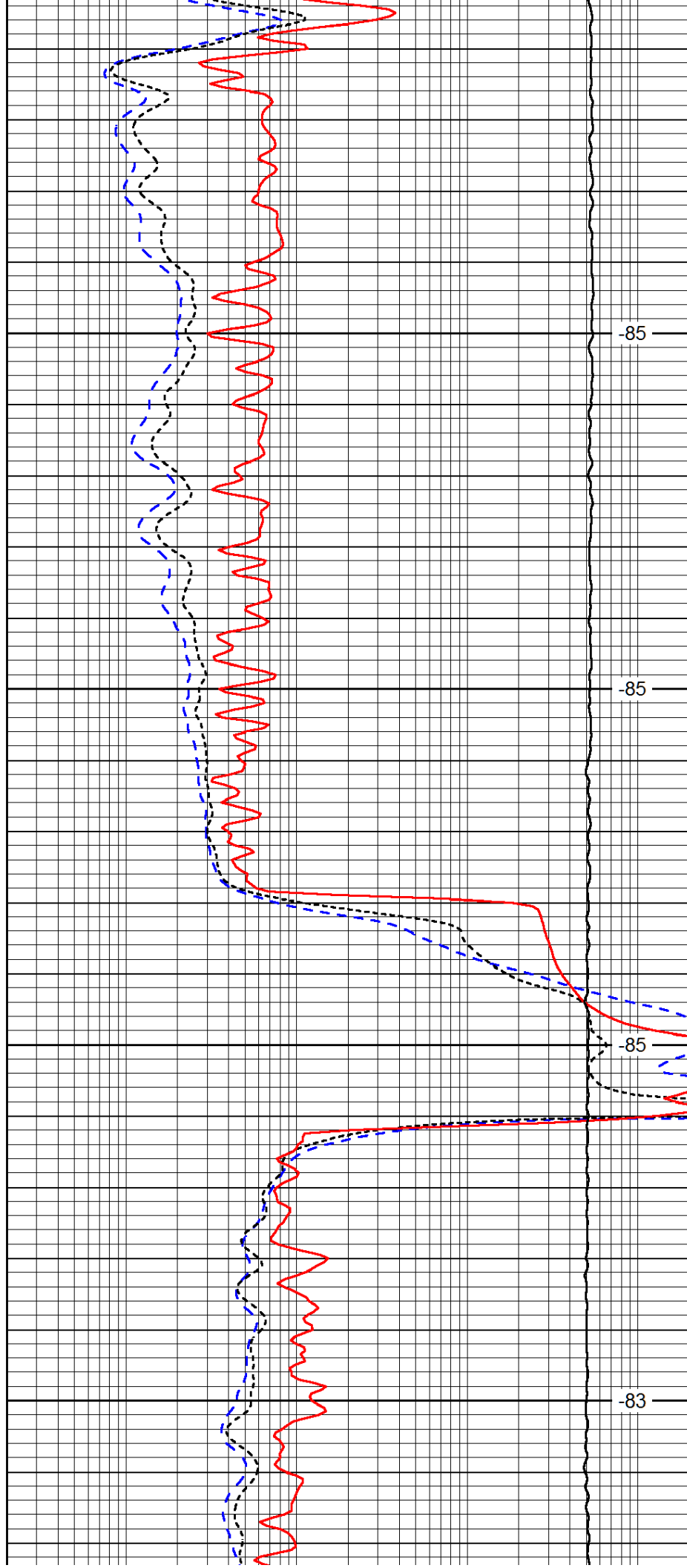


3100

3150

3200

3250

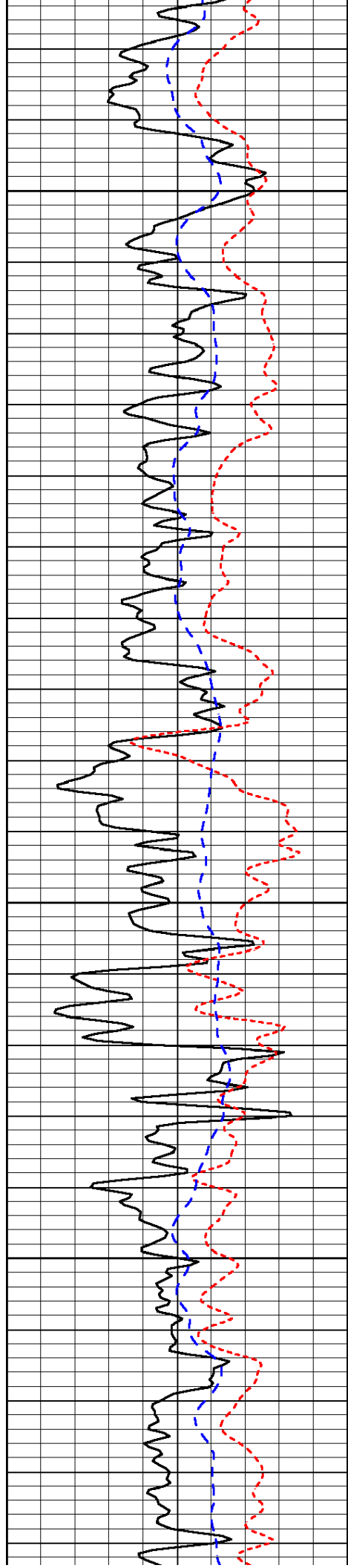


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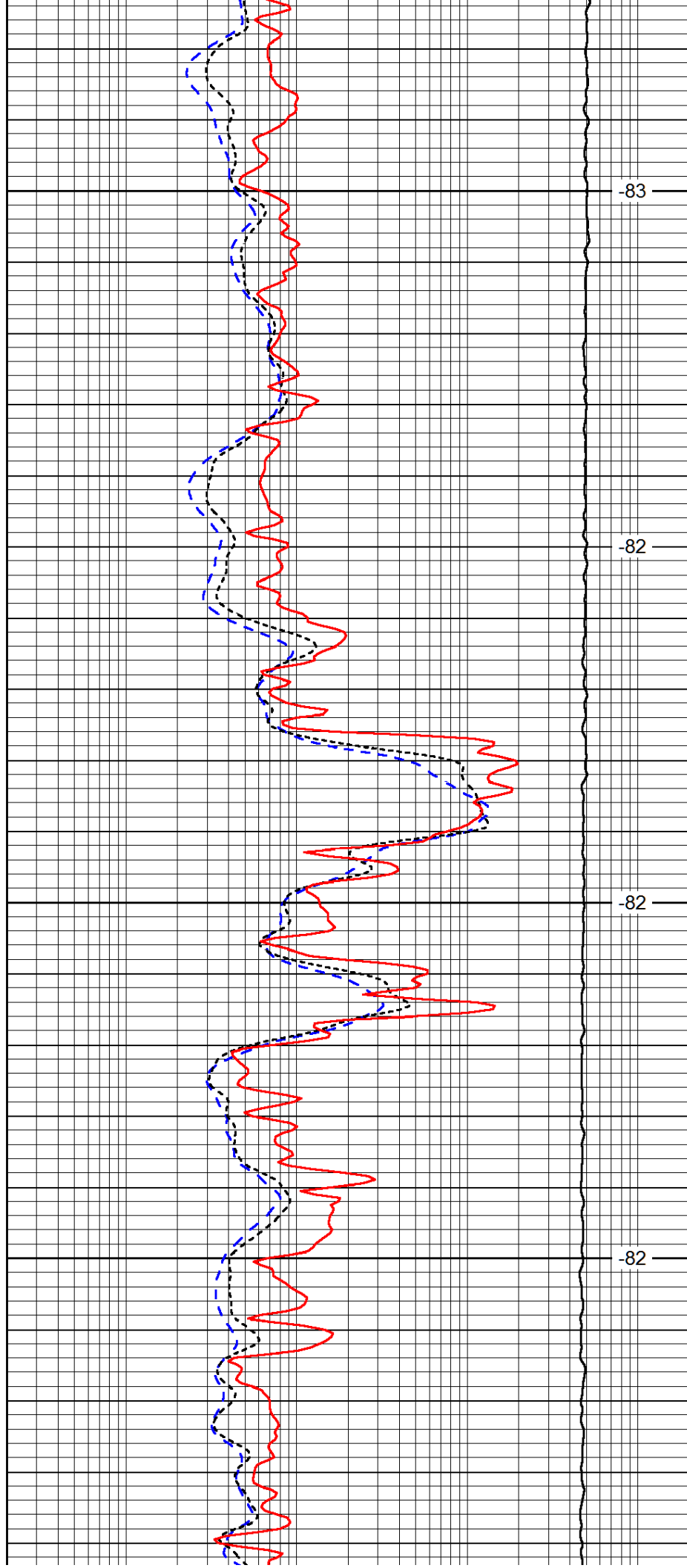


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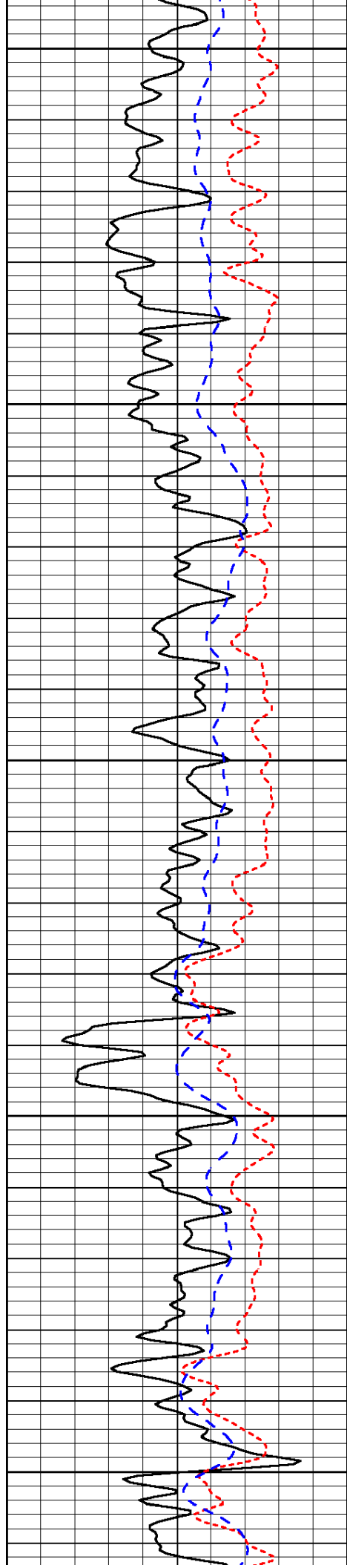


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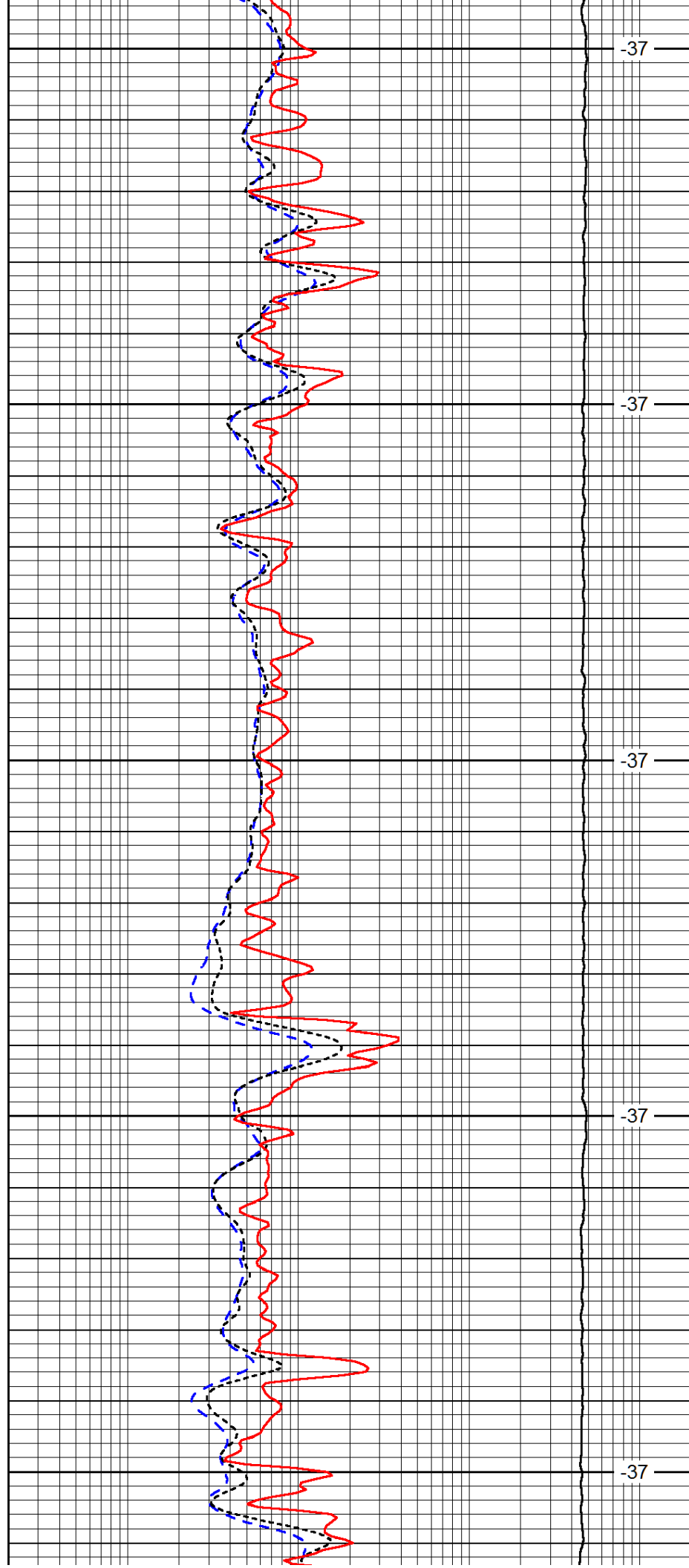
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3600

3650

3700



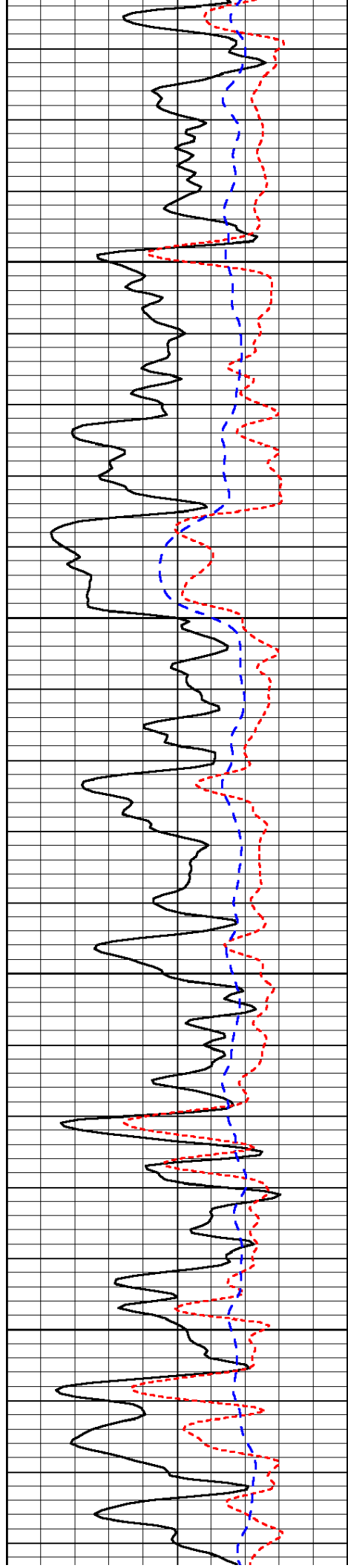
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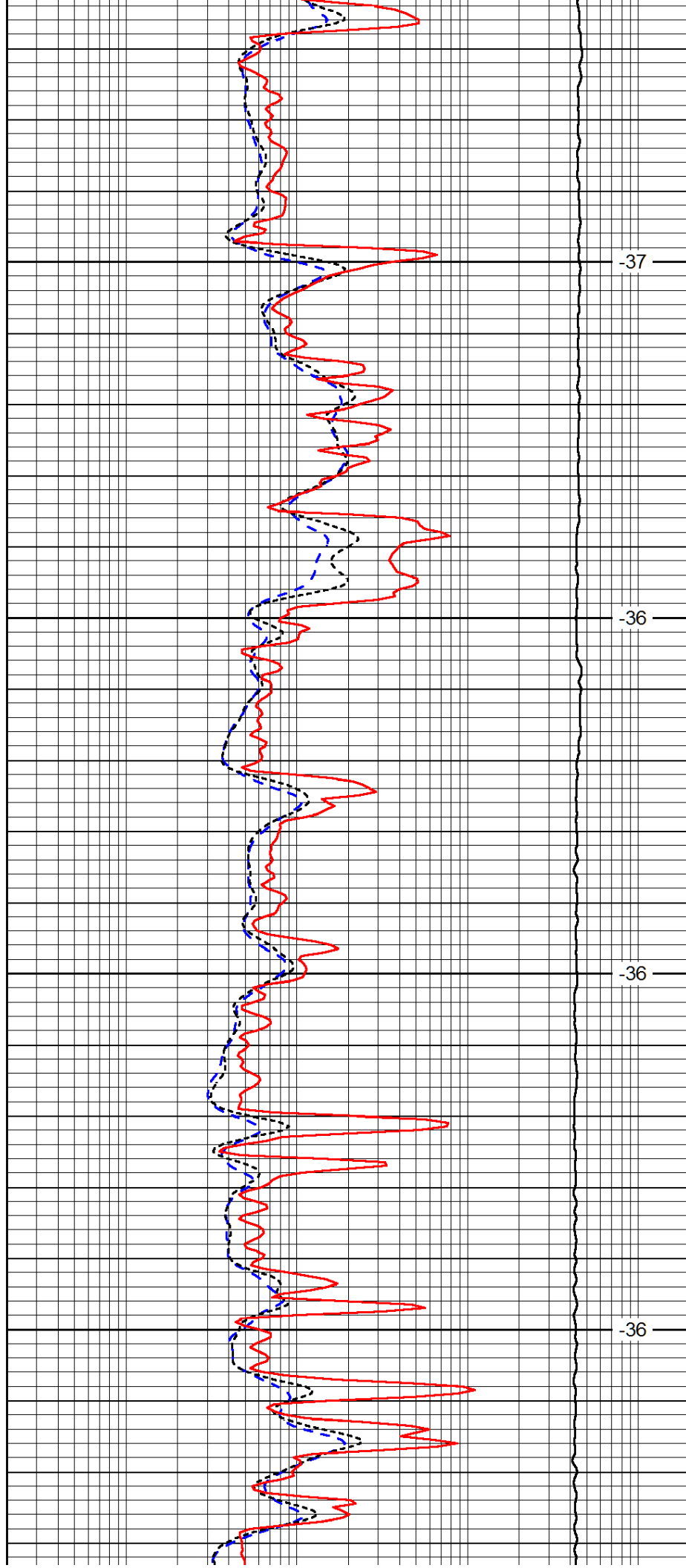


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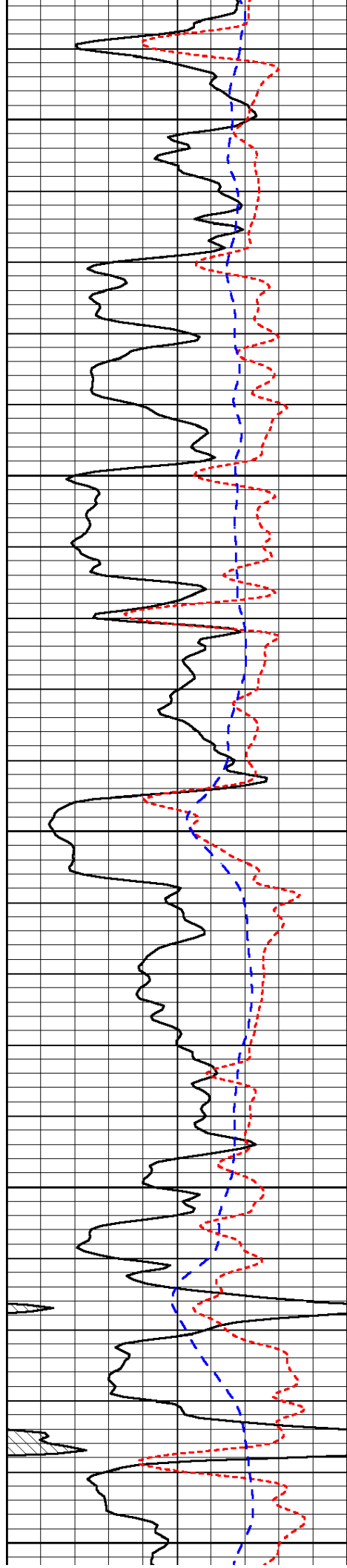


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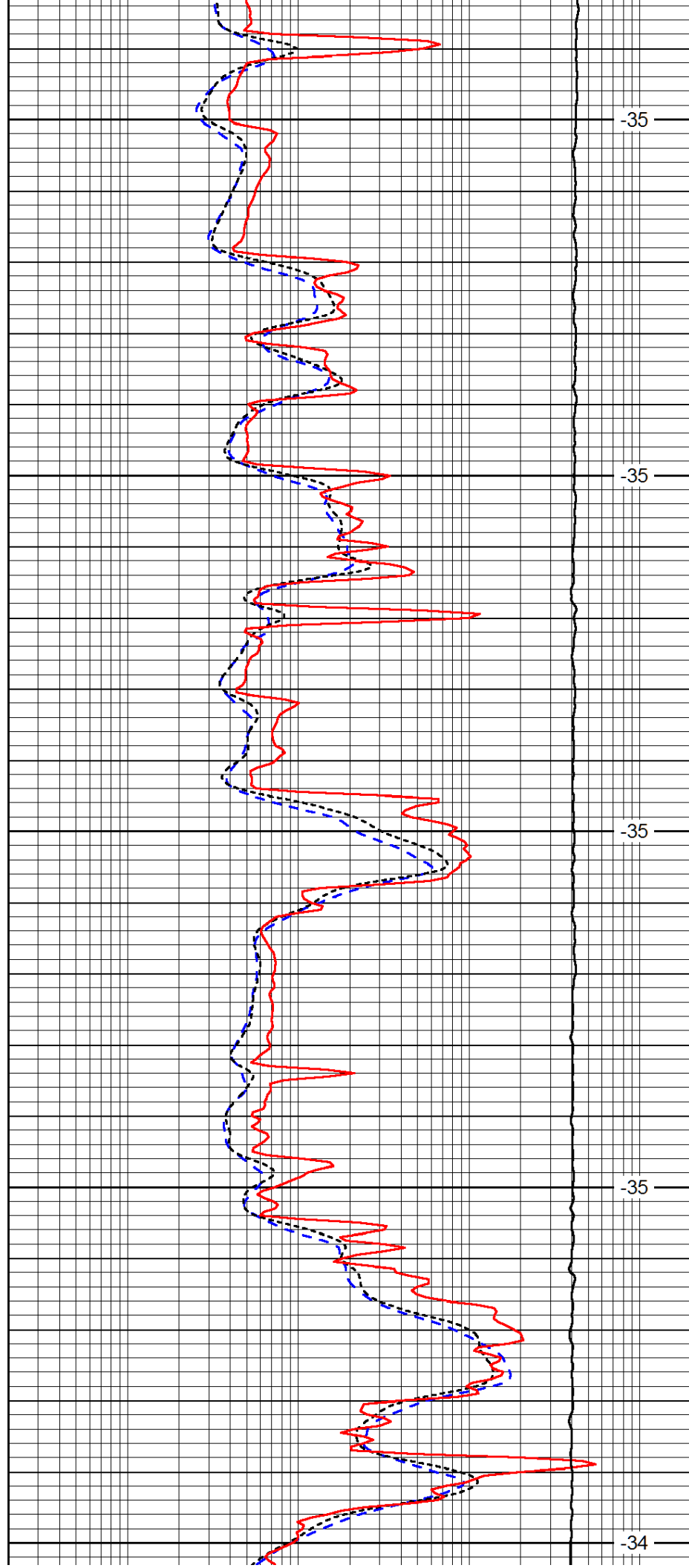
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4000

4050

4100

4150



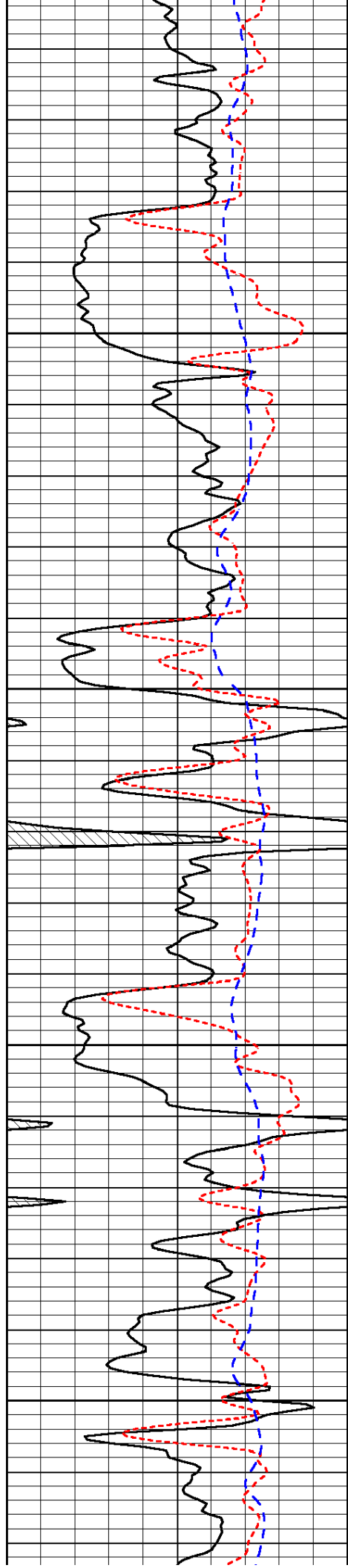
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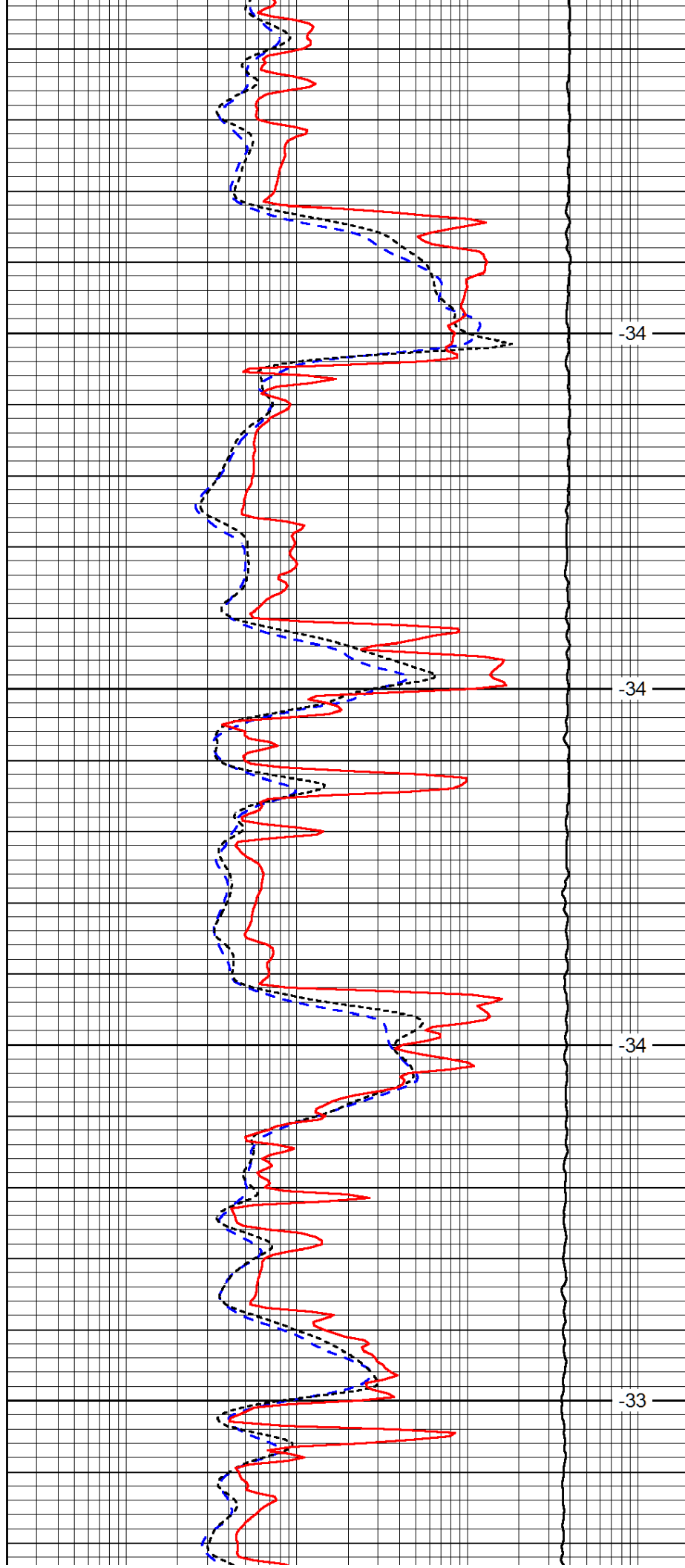


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4250

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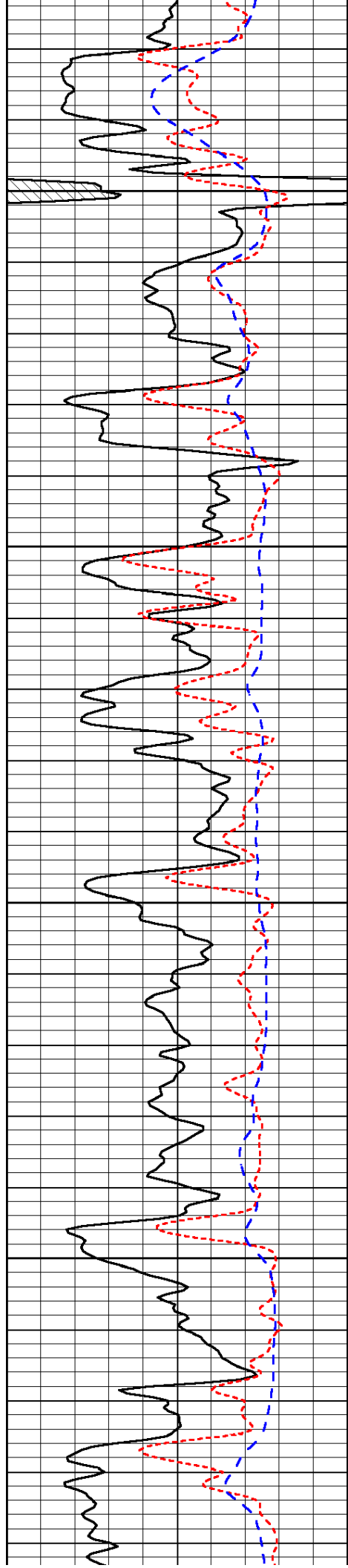


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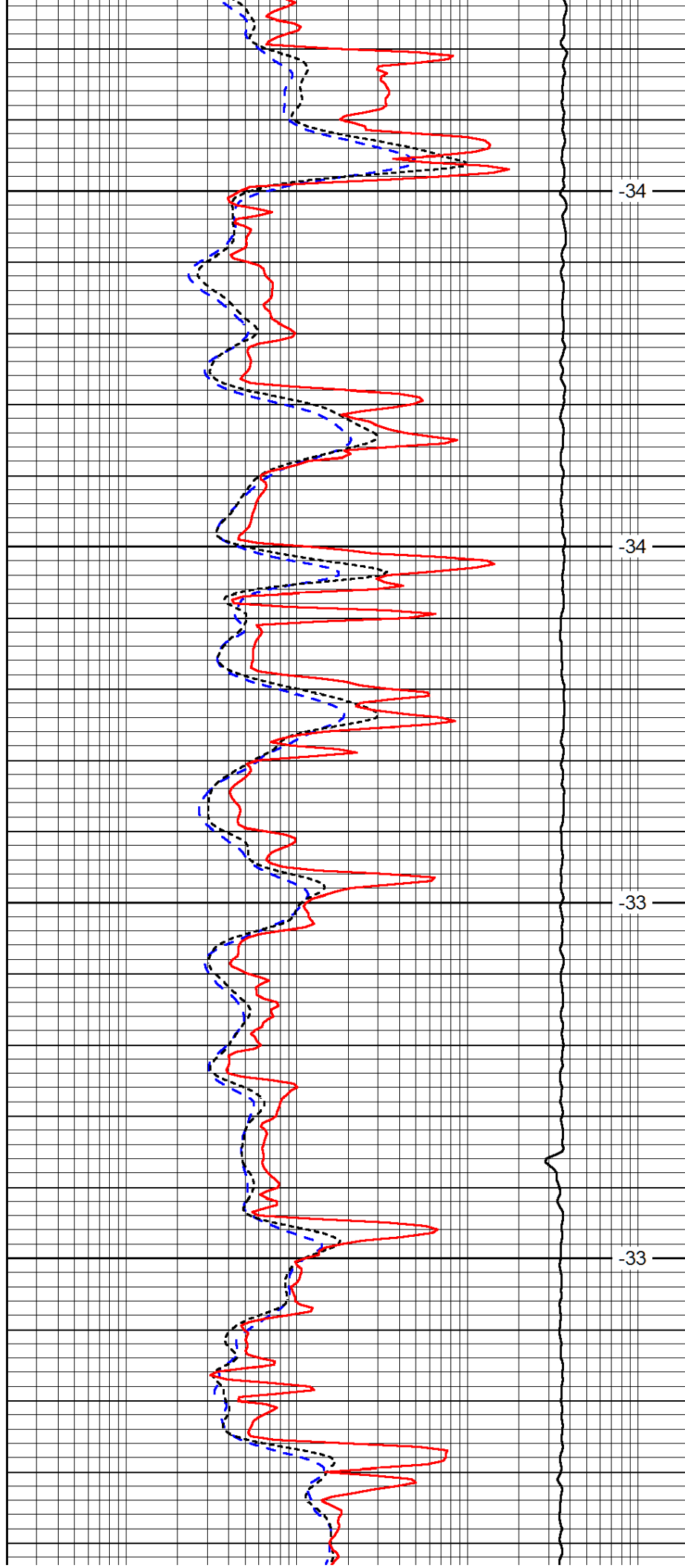


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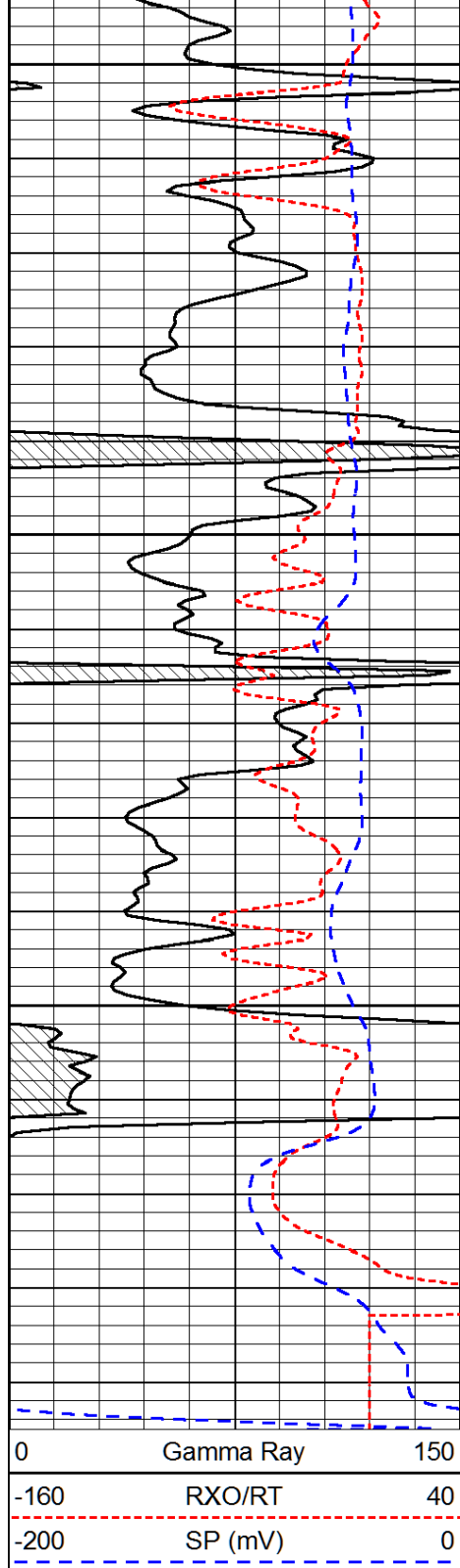


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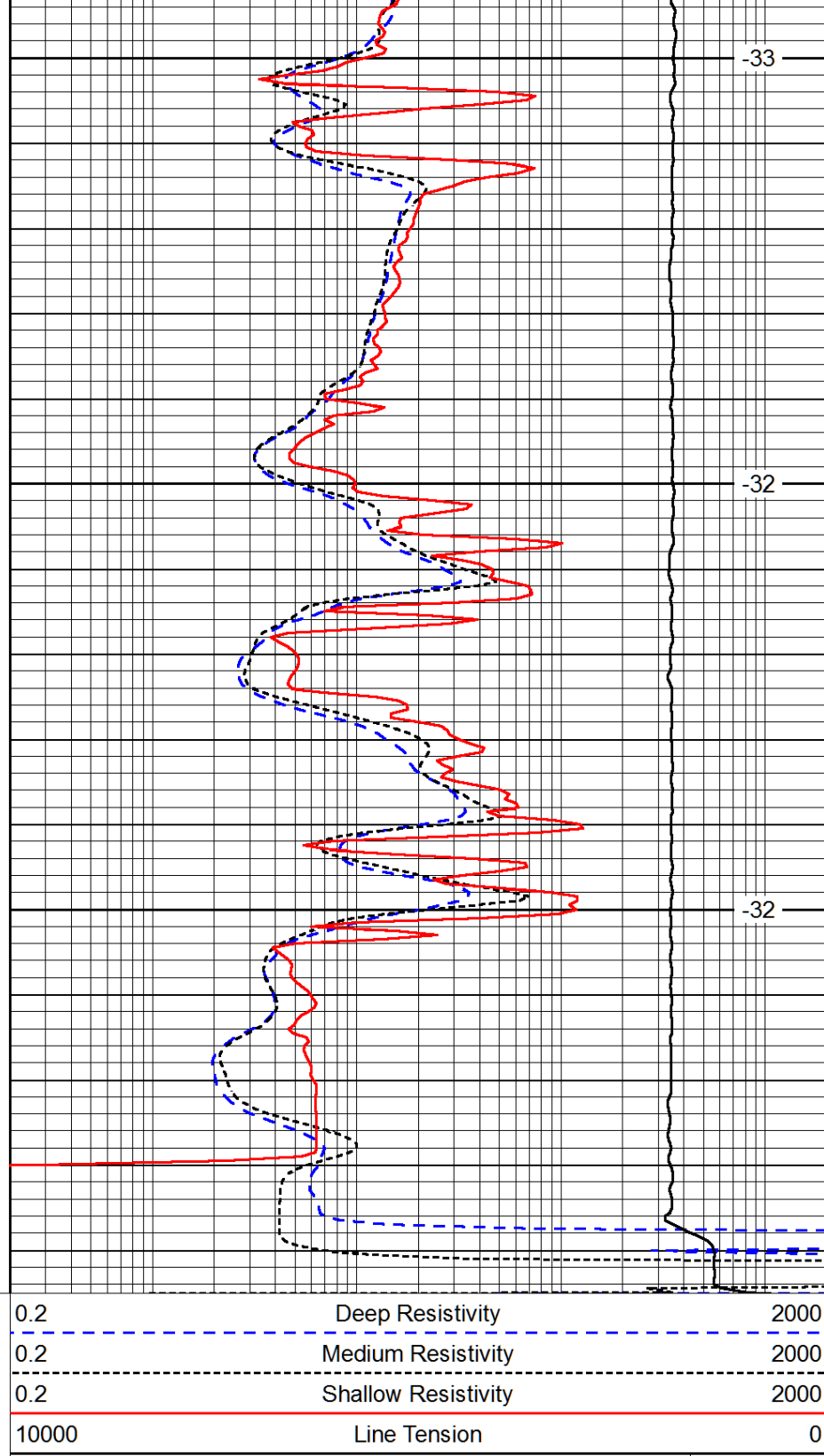
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4600

4650

4700



-33

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LSPD