



Pioneer Energy Services

Dual Induction Log

API No.

15-113-21,358-00-00

Company Marco Wind Operations, LLC

Well E. Goering No. 5

Field Ritz Canton

County McPherson State

Kansas

Location

SE SW NW NW
1250' FNL & 470' FWL

Sec: 4

Twp: 20 S

Rge: 2 W

Permanent Datum Ground Level Elevation 1523
Log Measured From Kelly Bushing 10 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Other Services
CNL/CDL
MEL

Elevation
K.B. 1533
D.F. 1523
G.L. 1523

Date

4/9/2013

Run Number

One

Depth Driller

3665

Depth Logger

3665

Bottom Logged Interval

3664

Top Log Interval

200

Casing Driller

8.625 @ 220

Casing Logger

223

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

600

Density / Viscosity

7.6 94

pH / Fluid Loss

11.5 8.0

Source of Sample

Flowline

Rm @ Meas. Temp

1.10 @ 68

Rmf @ Meas. Temp

.83 @ 68

Rmc @ Meas. Temp

1.49 @ 68

Source of Rmf / Rmc

Charts

Rm @ BHT

.66 @ 113

Operating Rig Time

5 Hours

Max Rec. Temp. F

113

Equipment Number

108

Location

Hays

Recorded By

D. Martin

Witnessed By

Delmar Nightingale

Recorded By

Rex Savage

Witnessed By

Mike Hadix

<<< 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

Galva, KS
2 S on 21st Ave., 3/4 W, SW Into

Database File: marco_egoering_5hd.db

Dataset Pathname: DIL/marstk

Presentation Format: dil

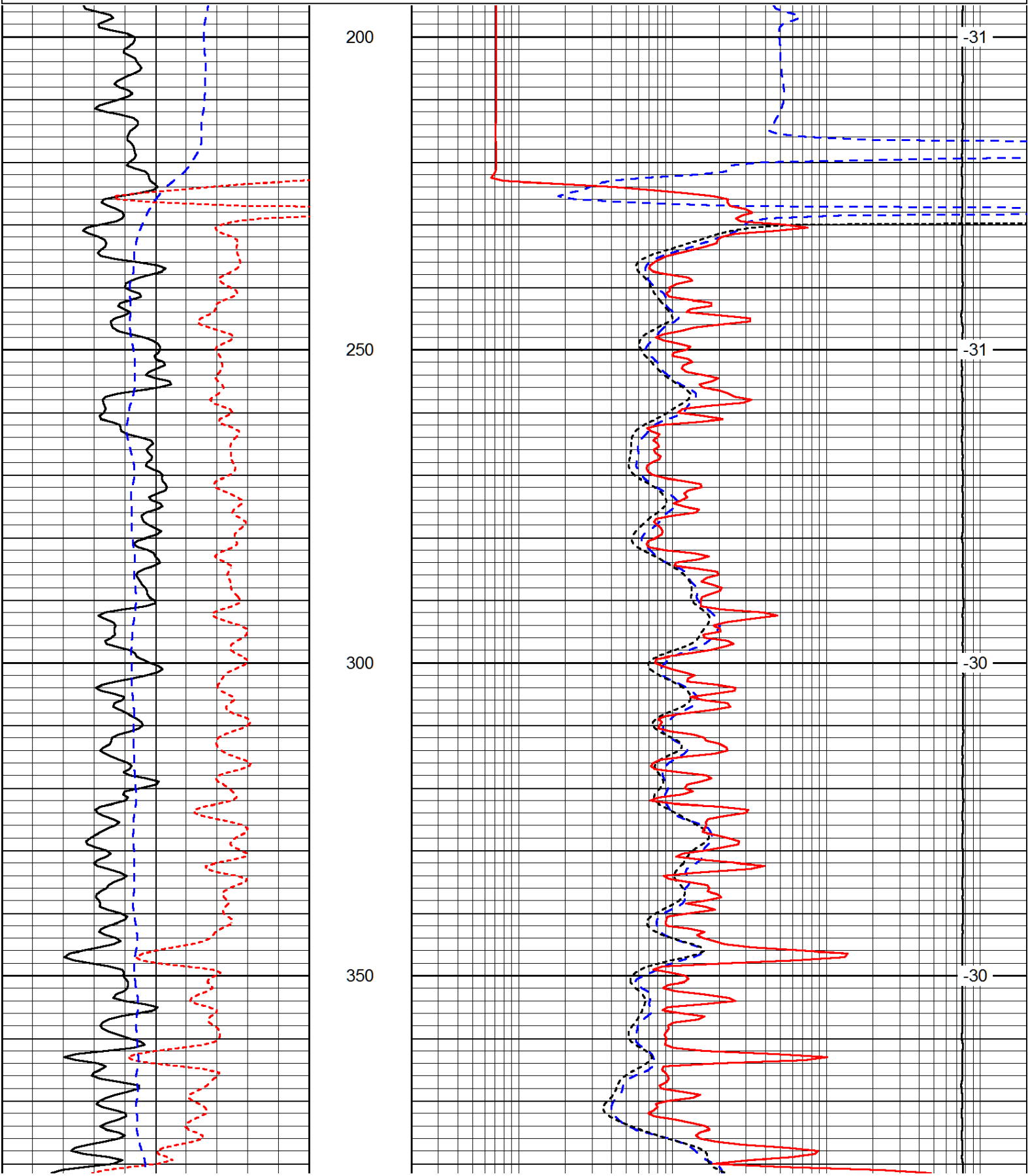
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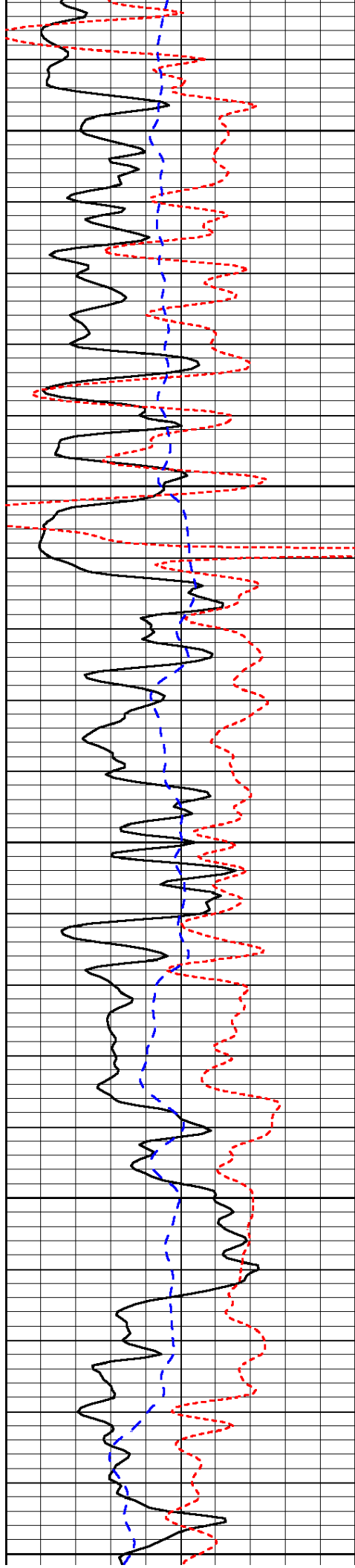
Charted by: Depth in Feet scaled 1:240

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

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

LSPD
(ft/min)





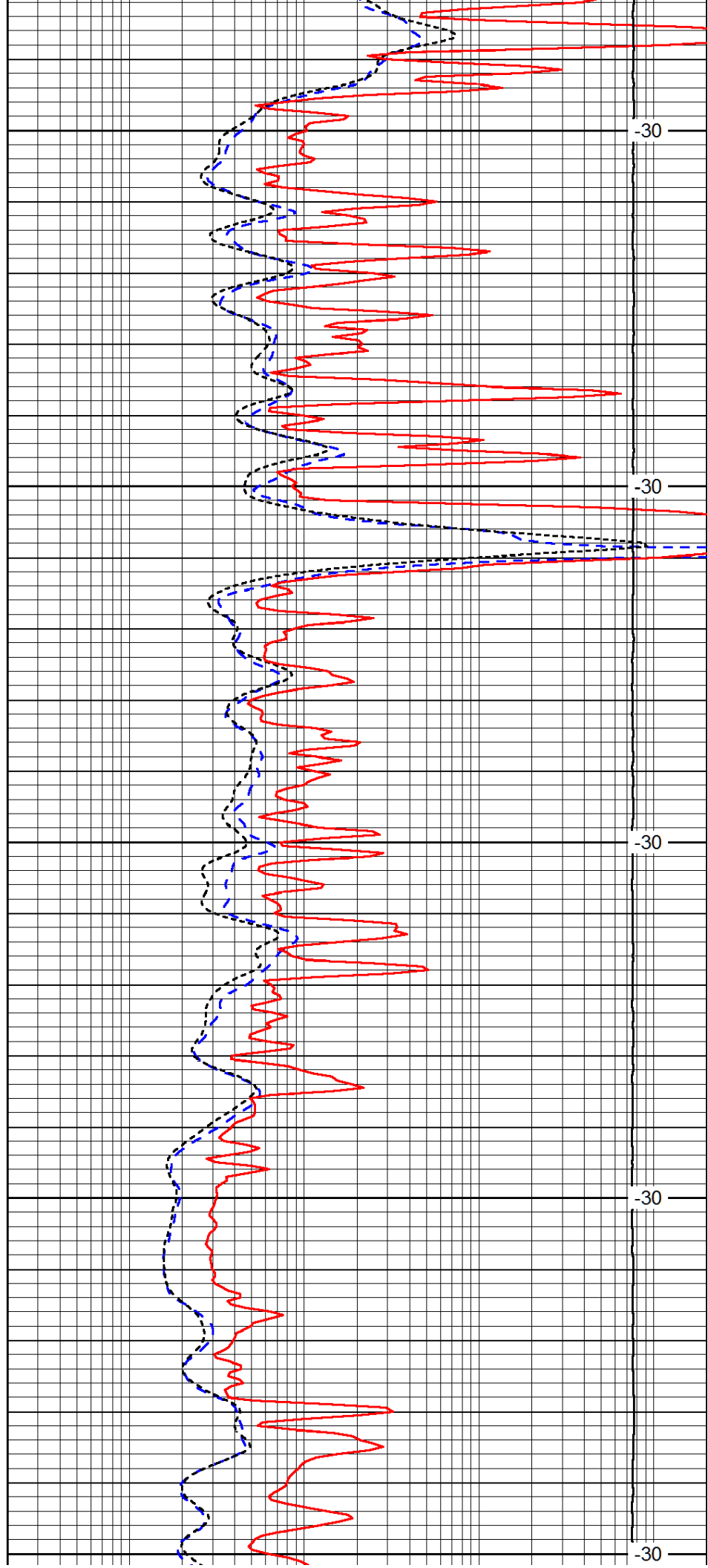
400

450

500

550

600



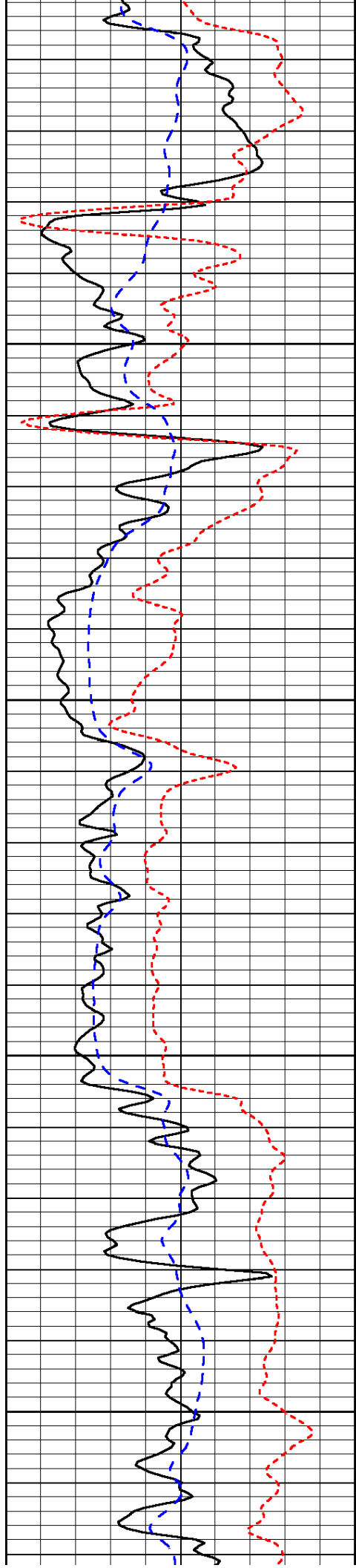
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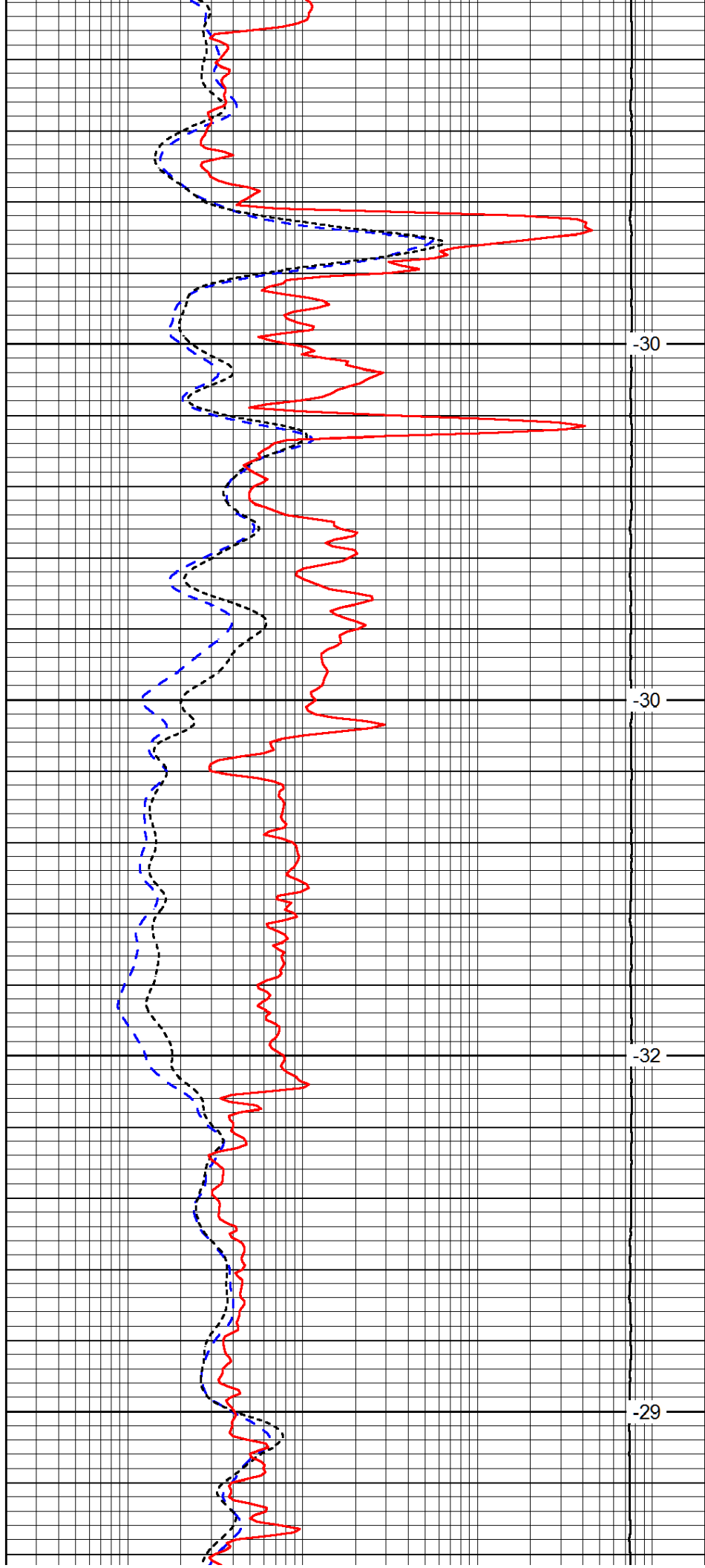


650

700

750

800

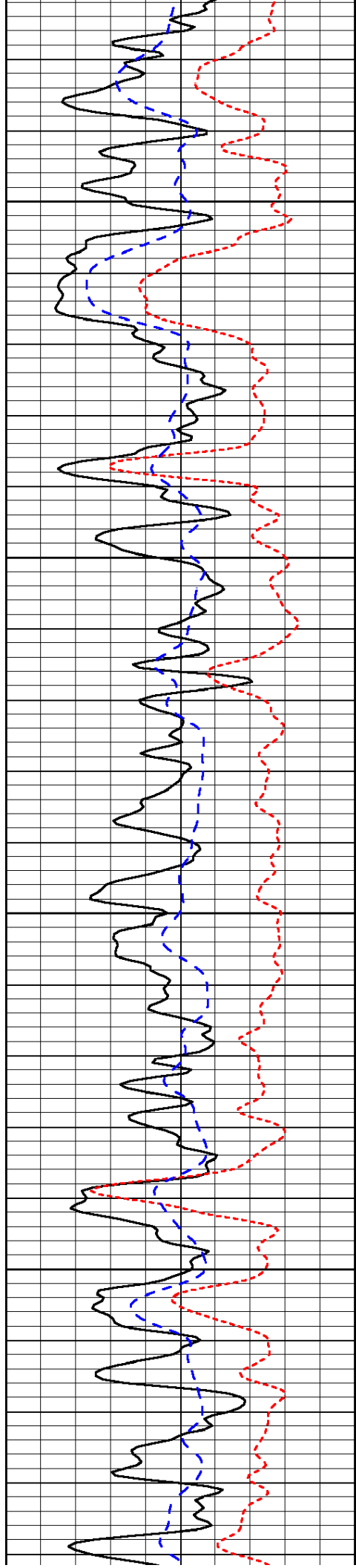


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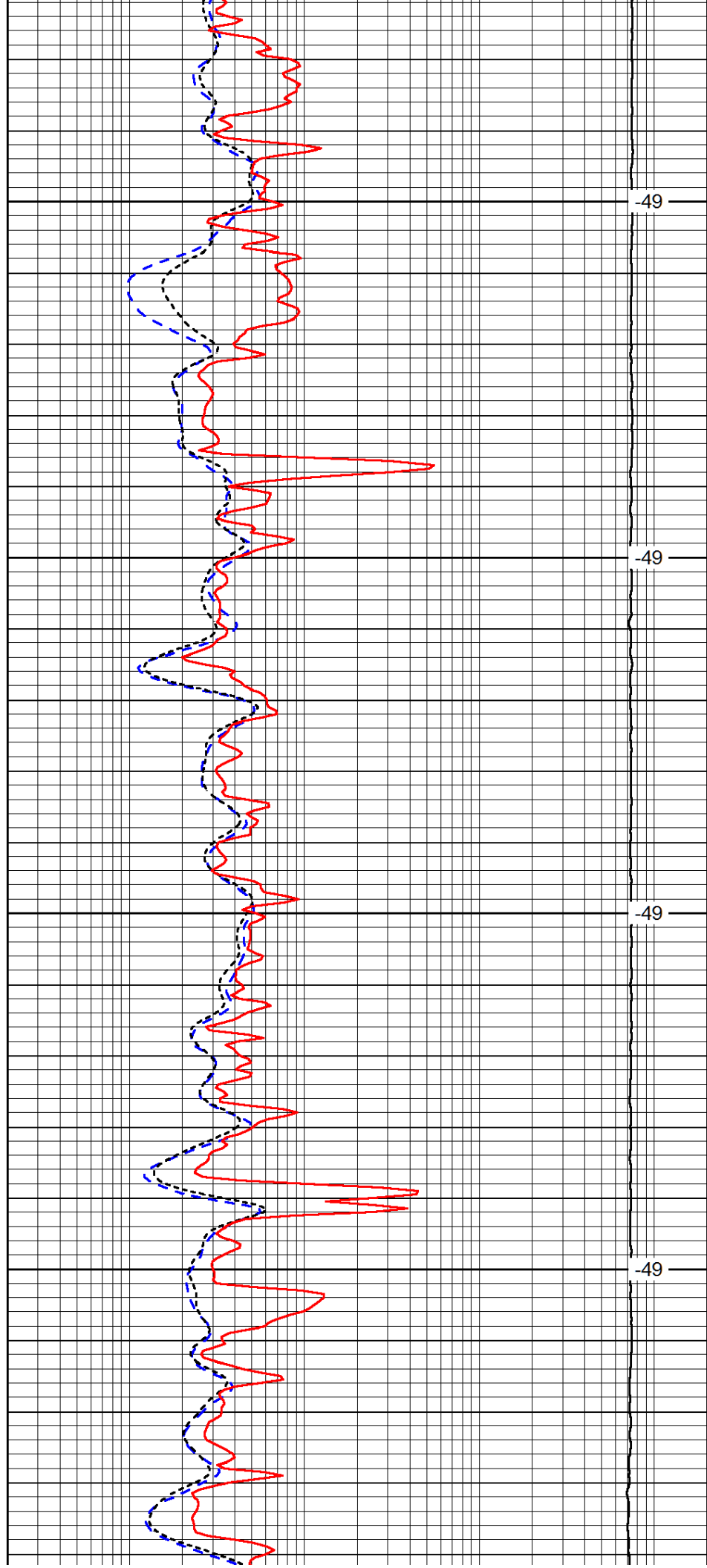


850

900

950

1000

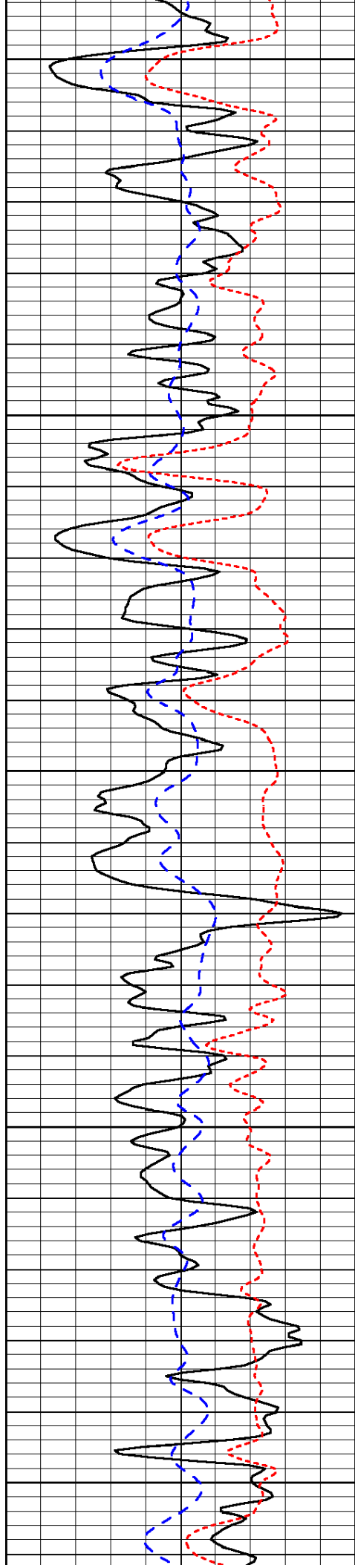


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1000



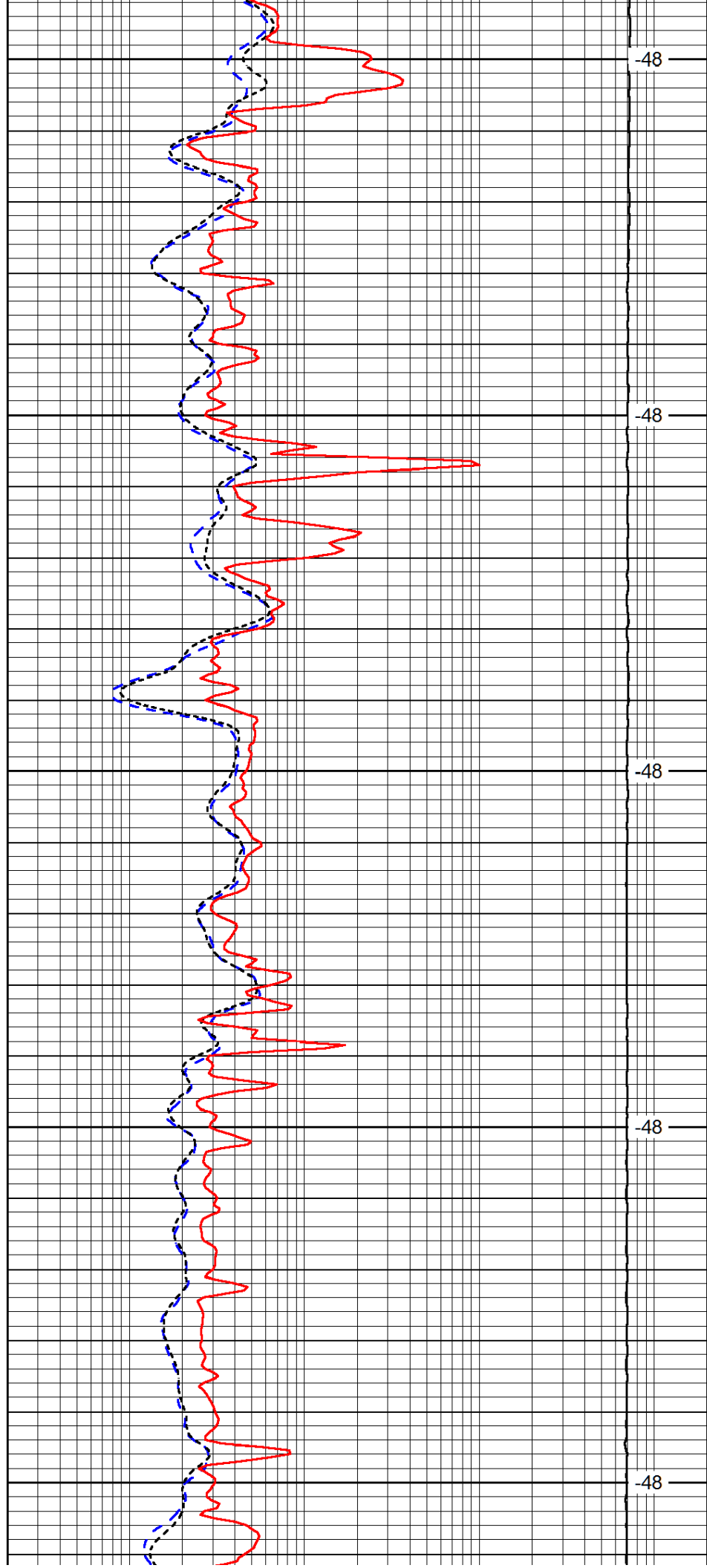
1050

1100

1150

1200

1250



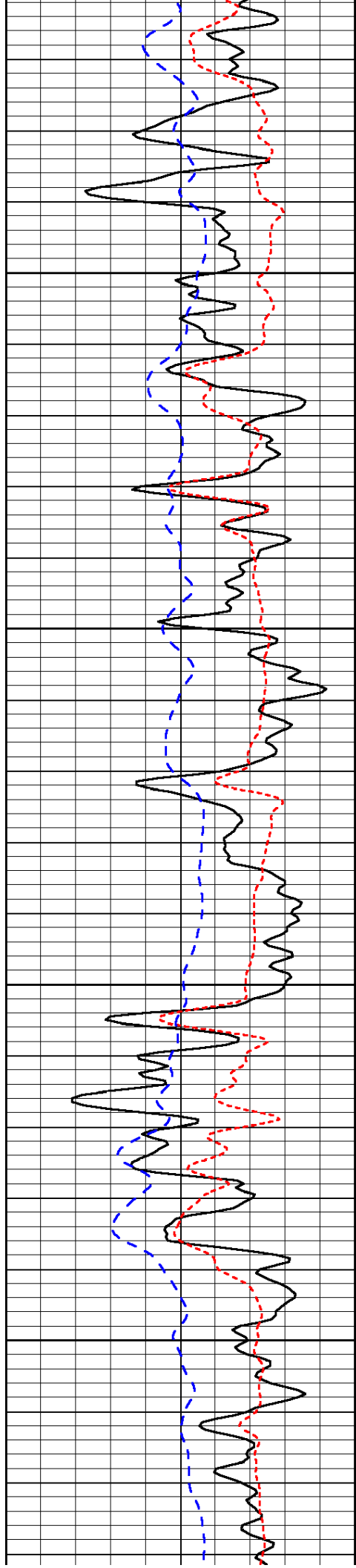
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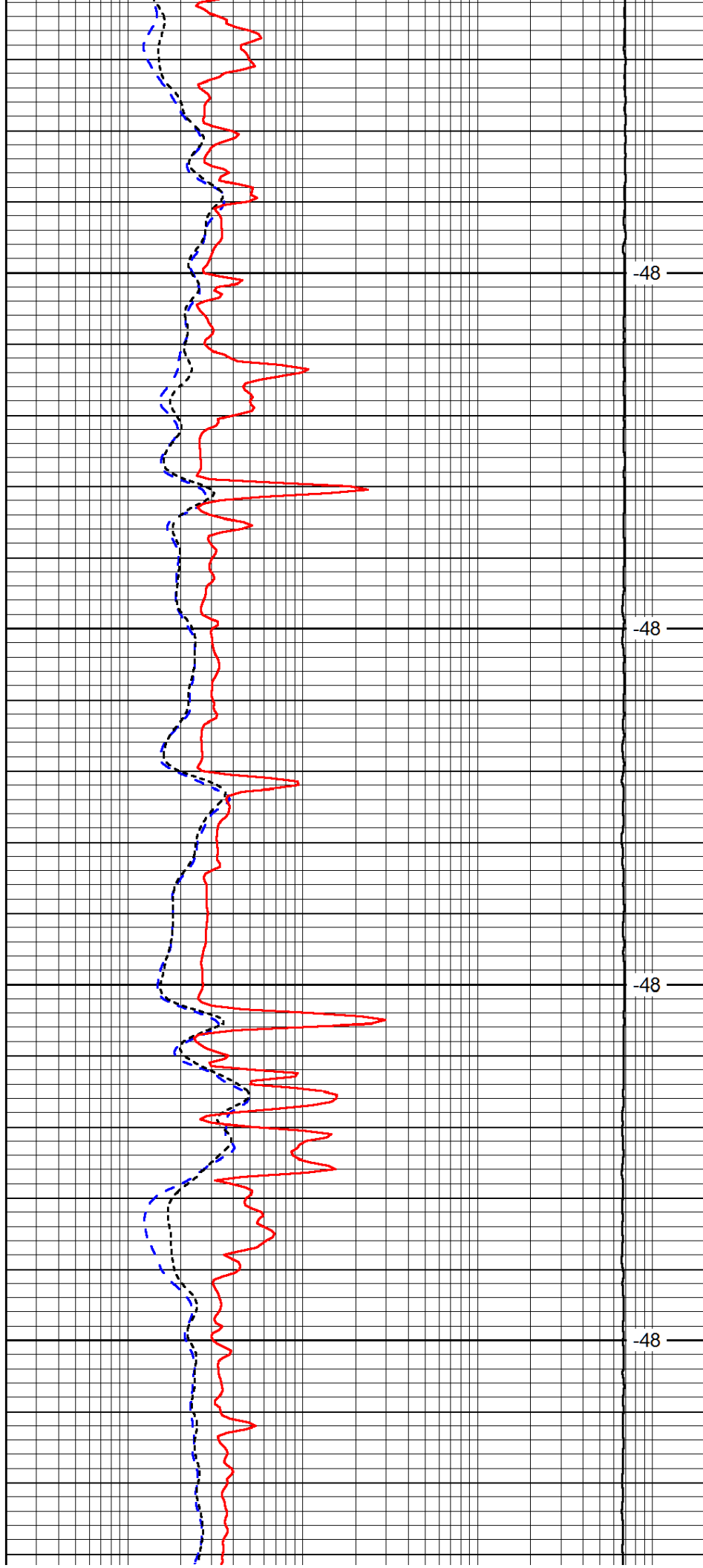


1300

1350

1400

1450

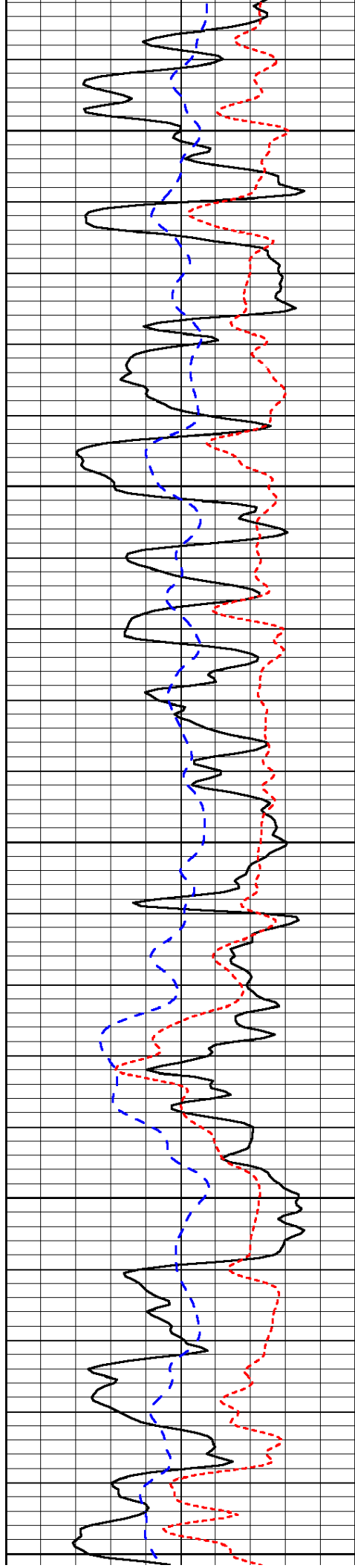


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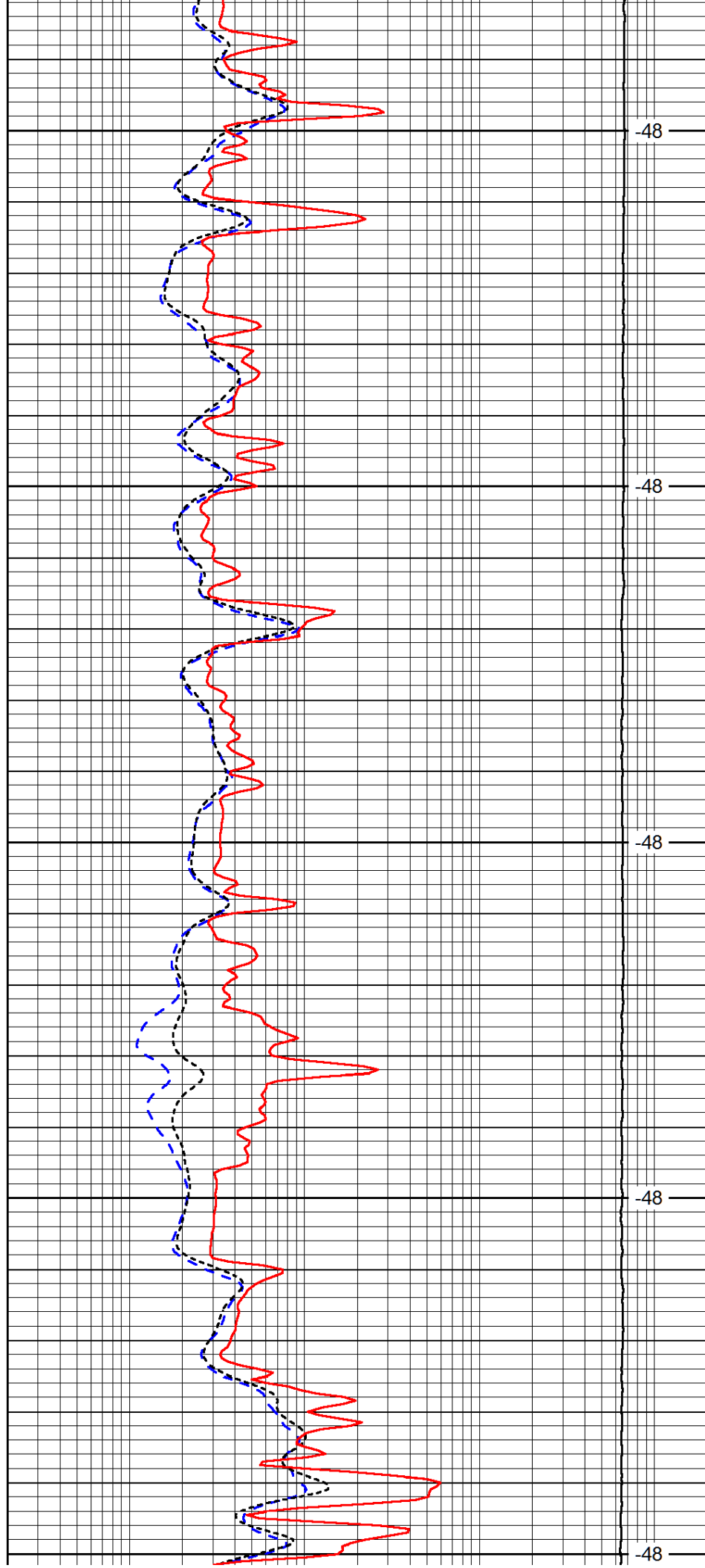
1500

1550

1600

1650

1700



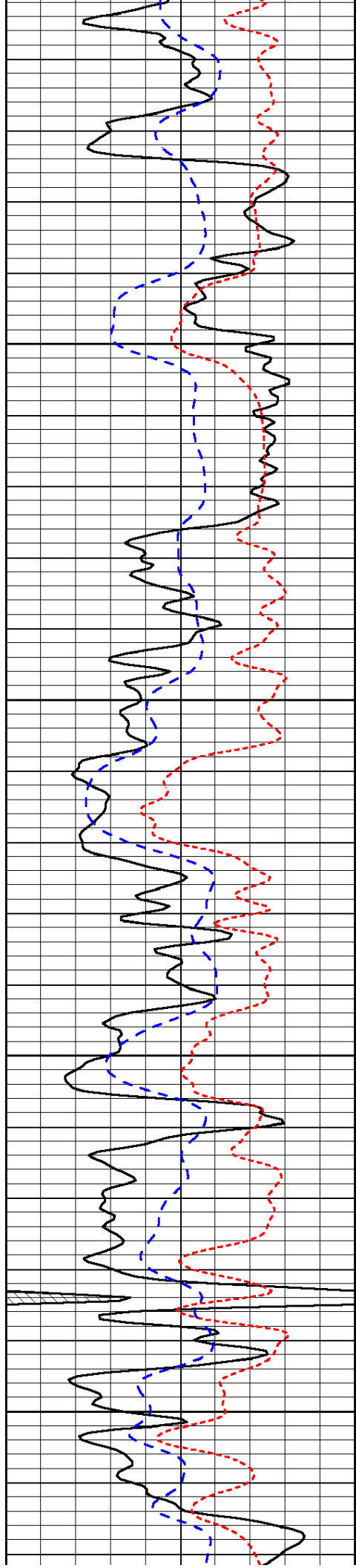
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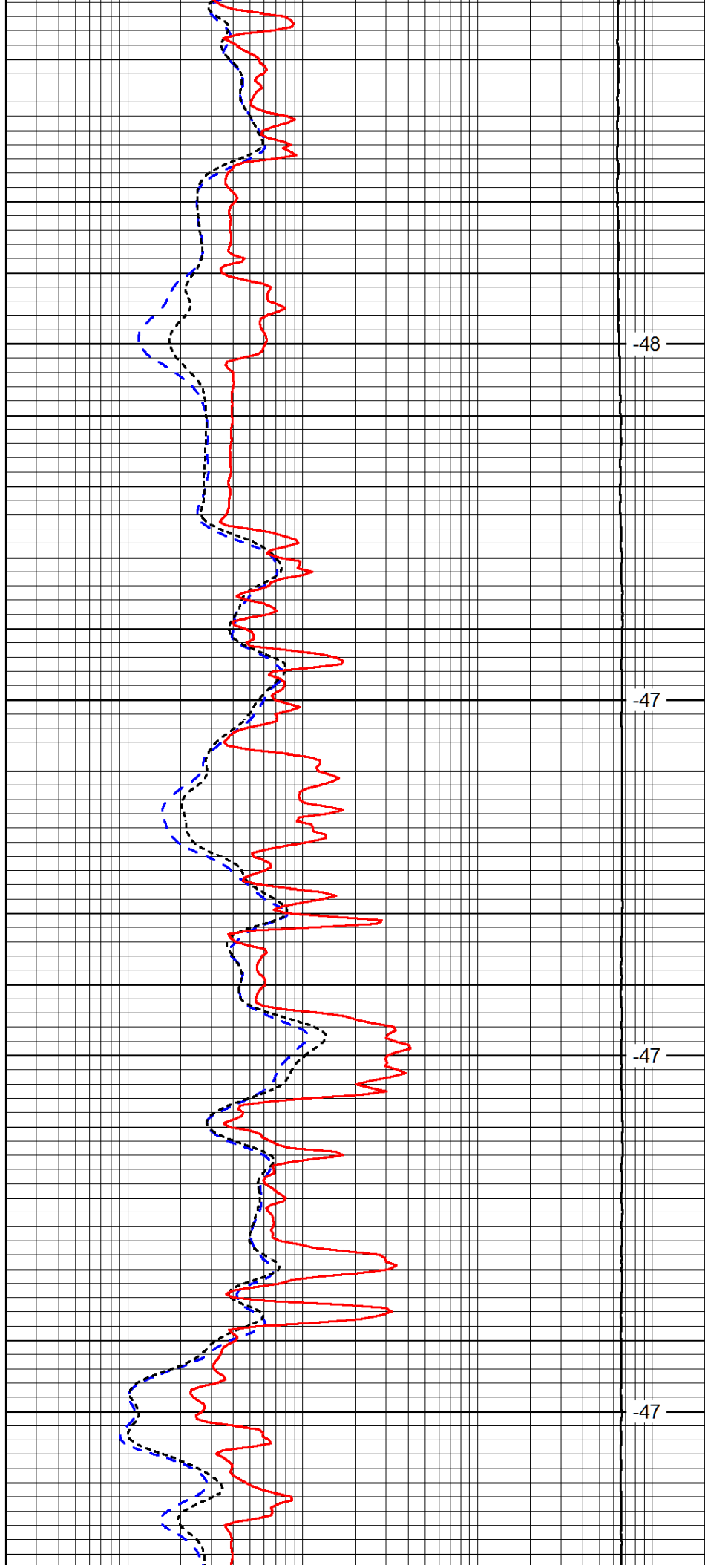


1750

1800

1850

1900

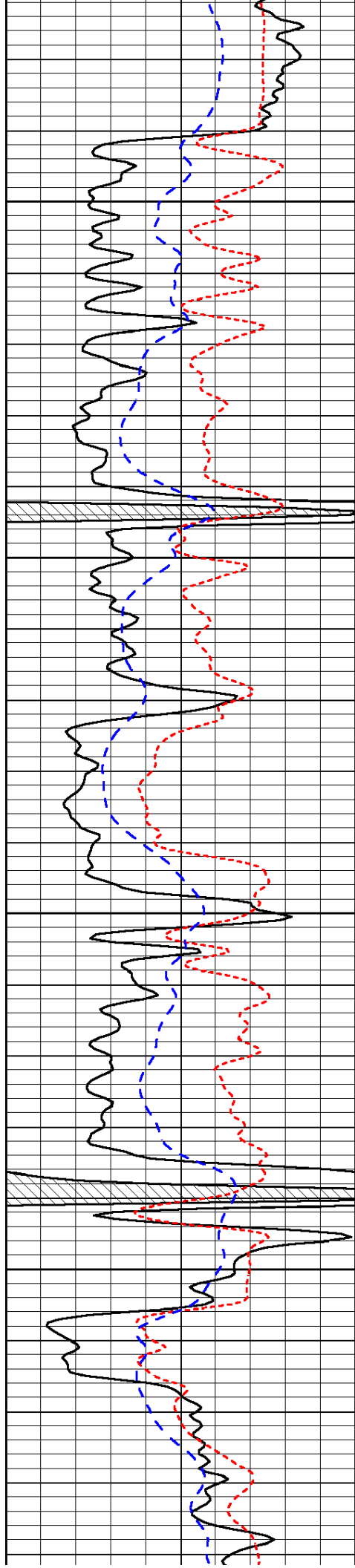


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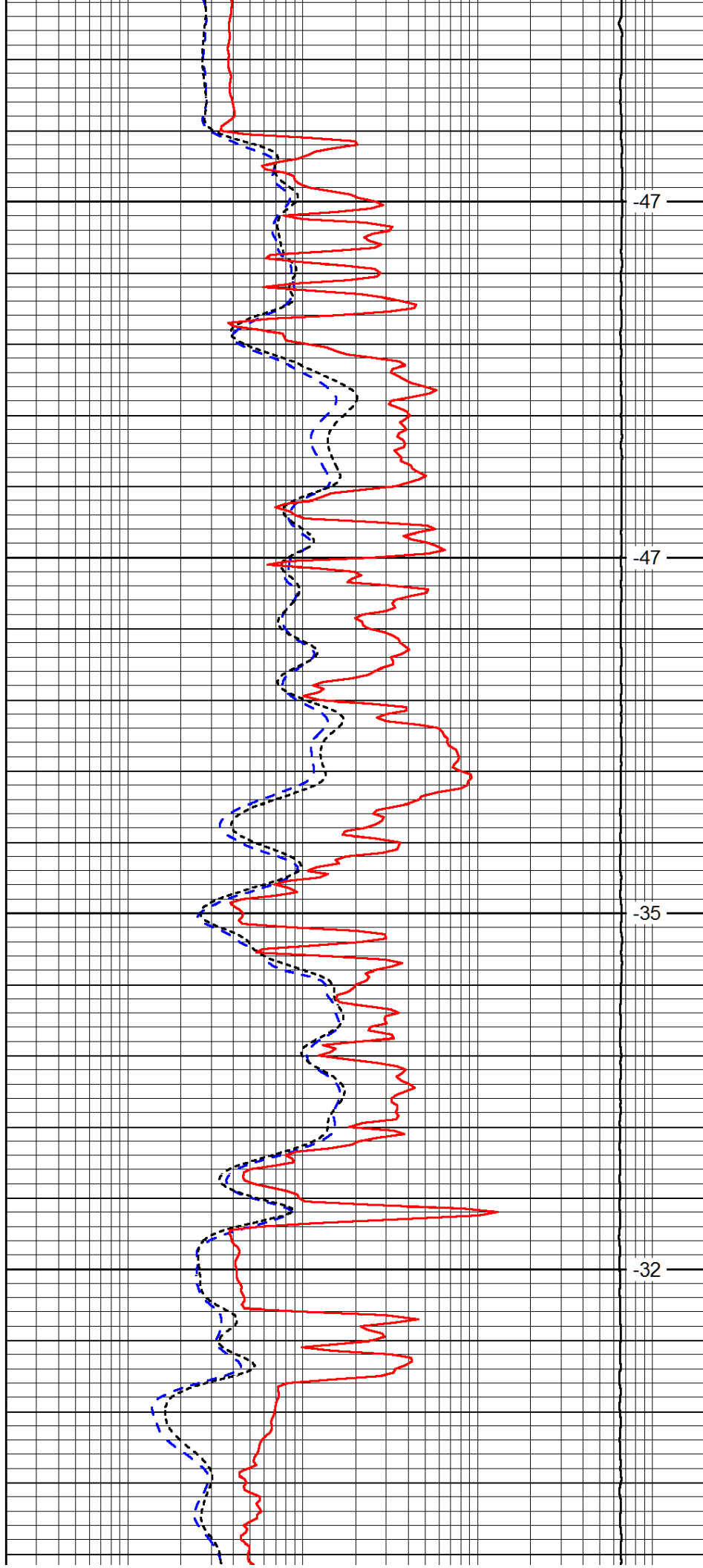


1950

2000

2050

2100

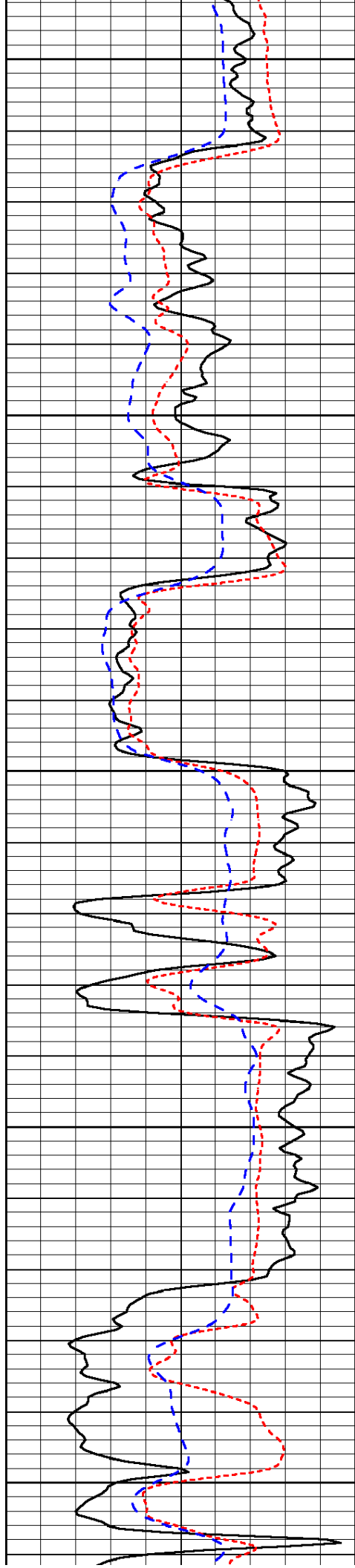


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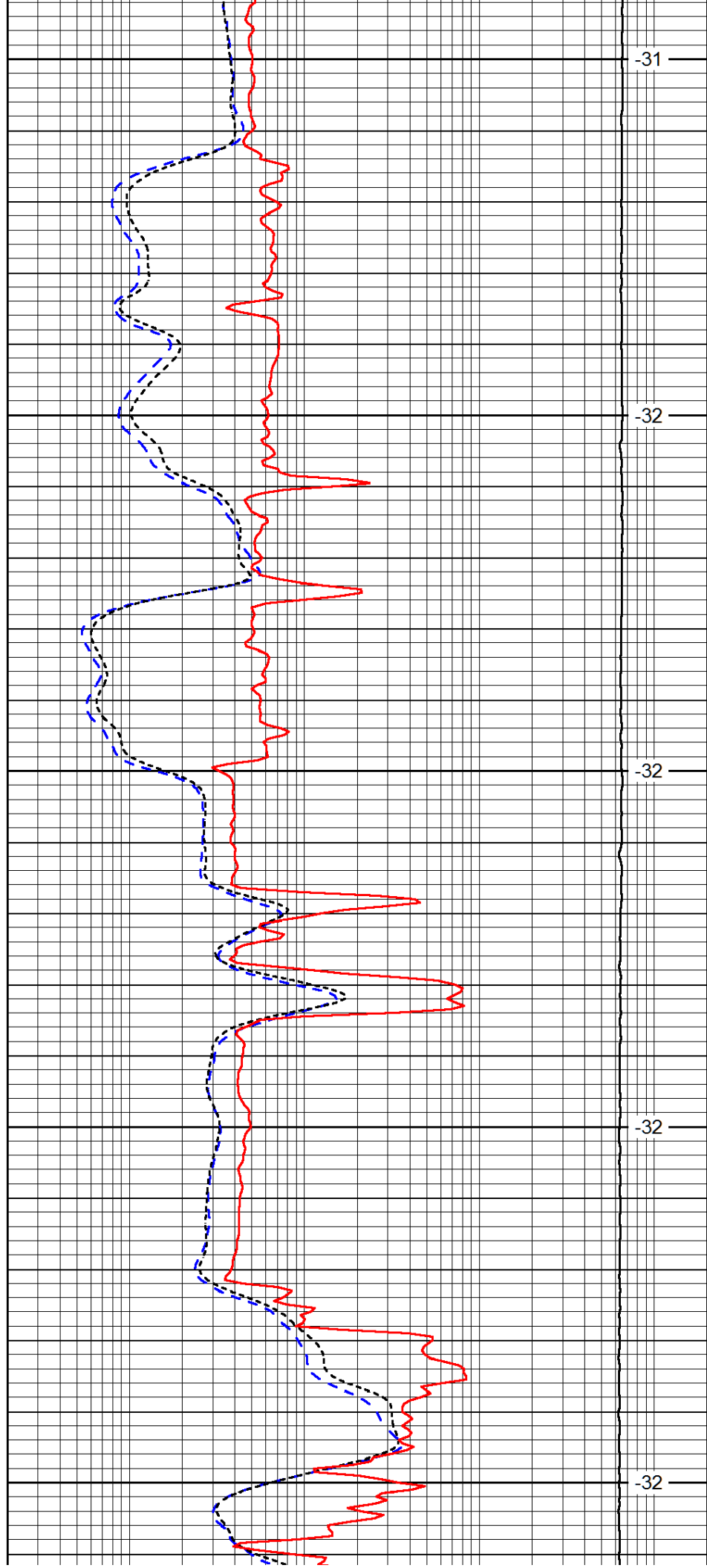
2150

2200

2250

2300

2350



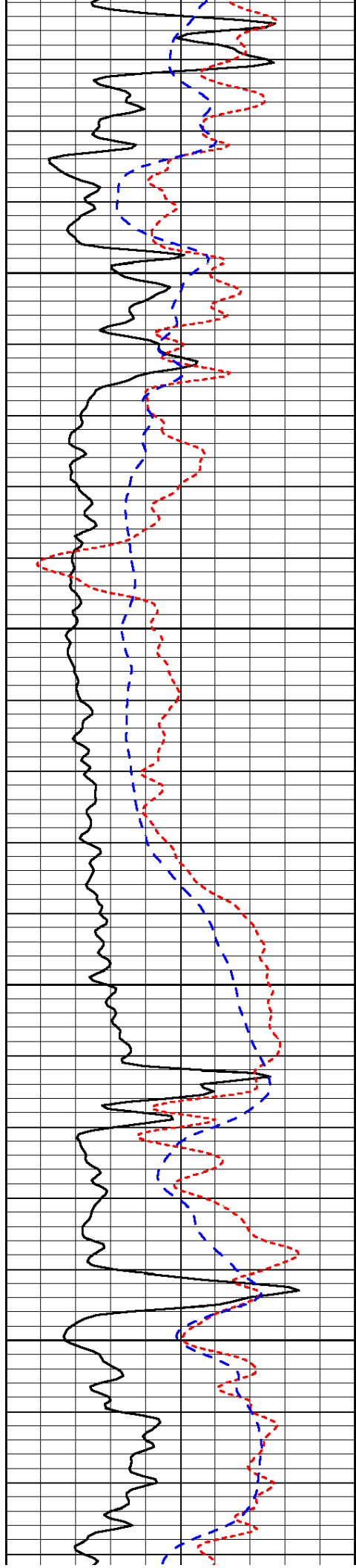
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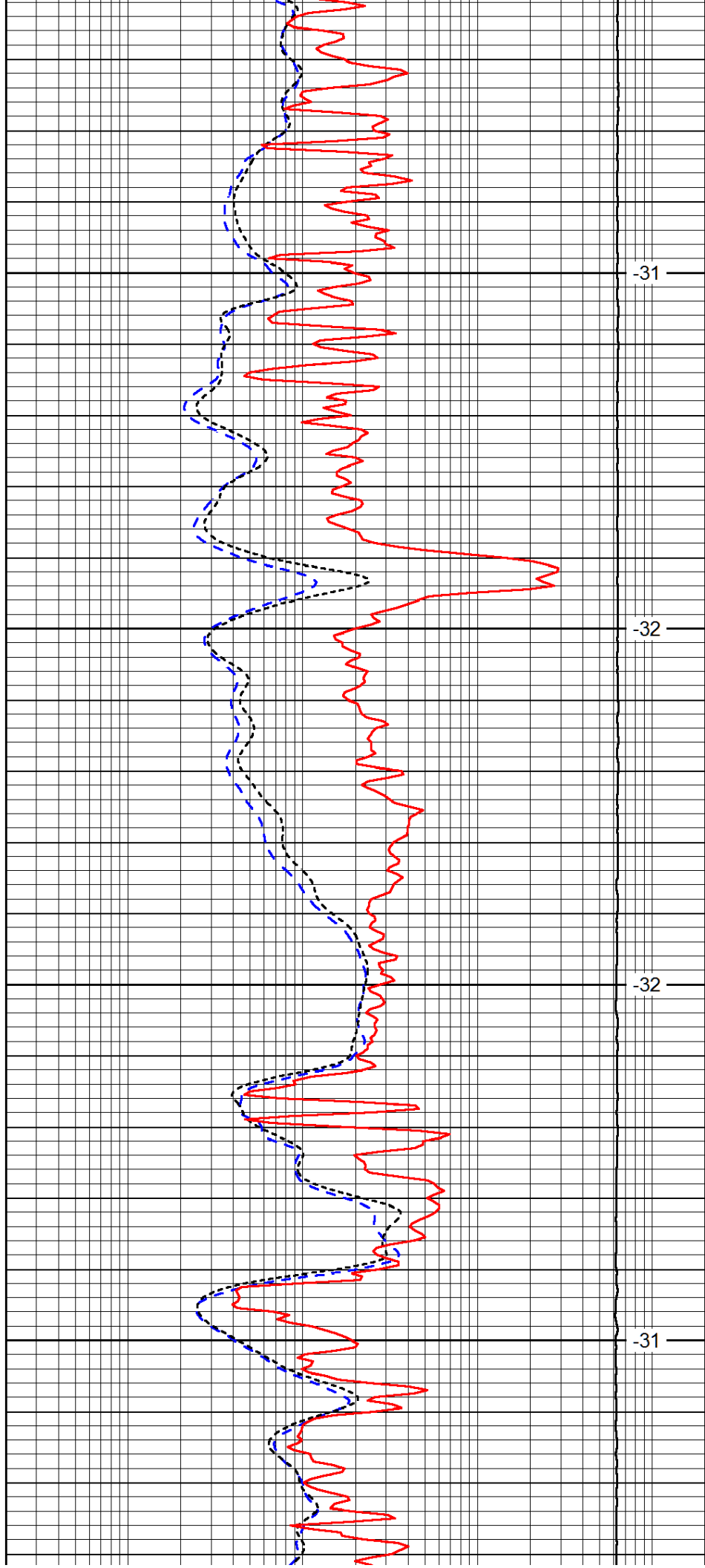


2400

2450

2500

2550

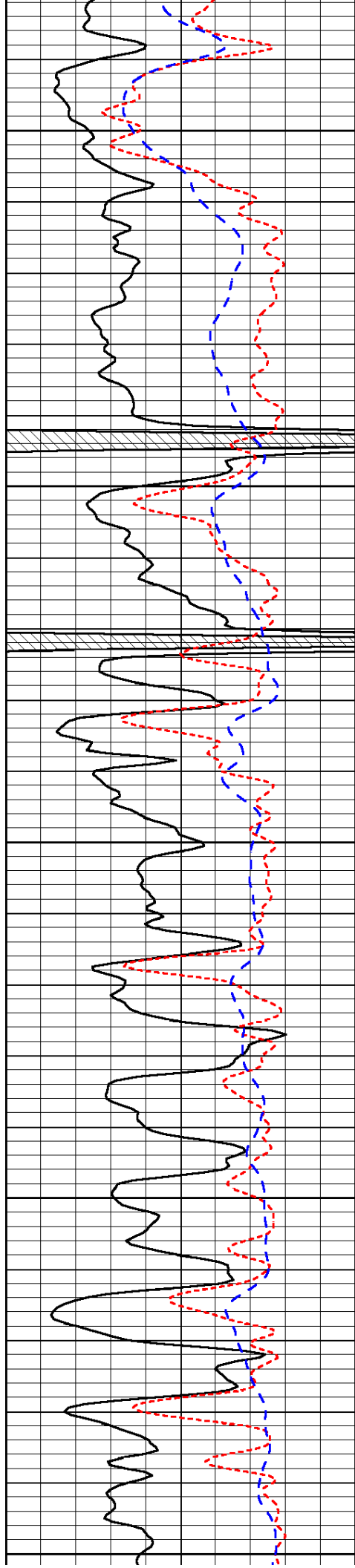


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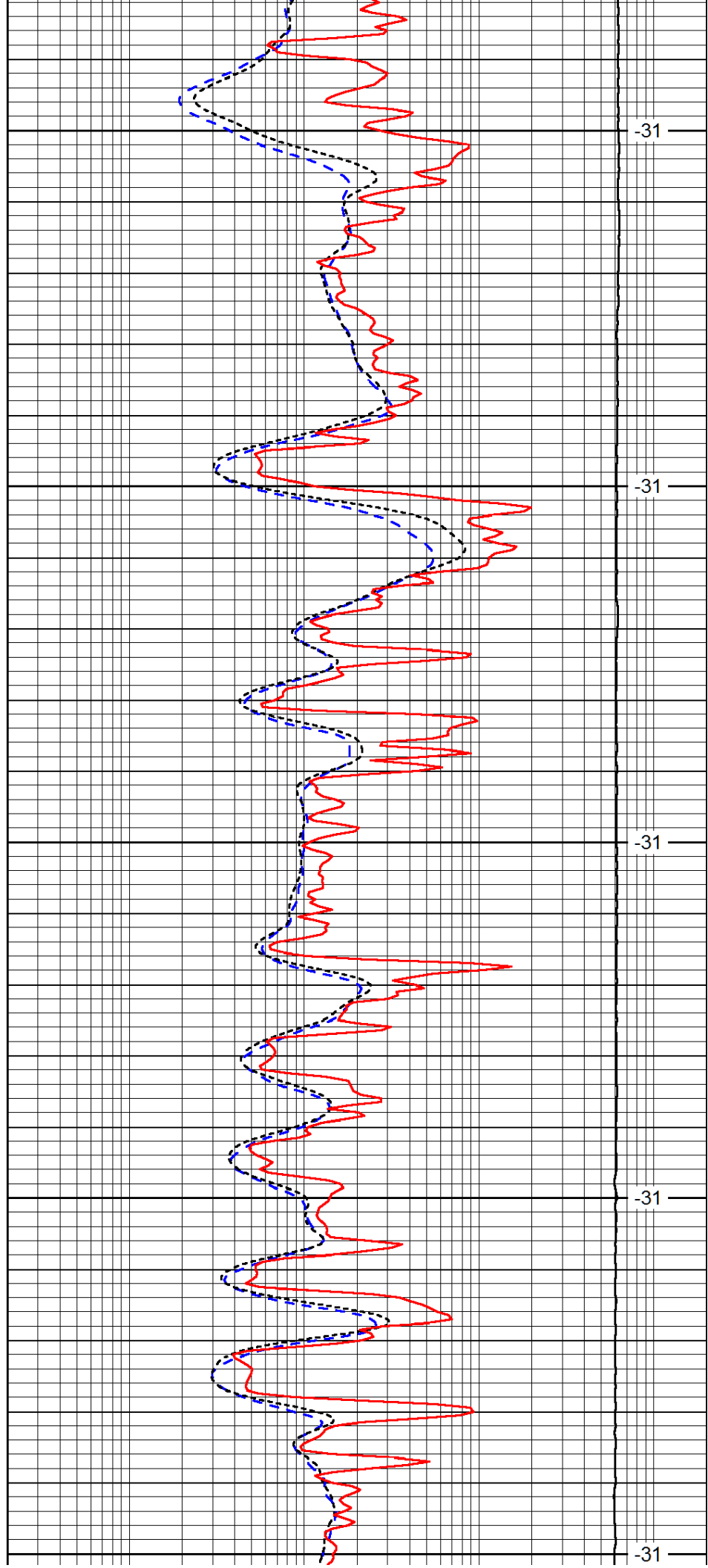
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2650

2700

2750

2800



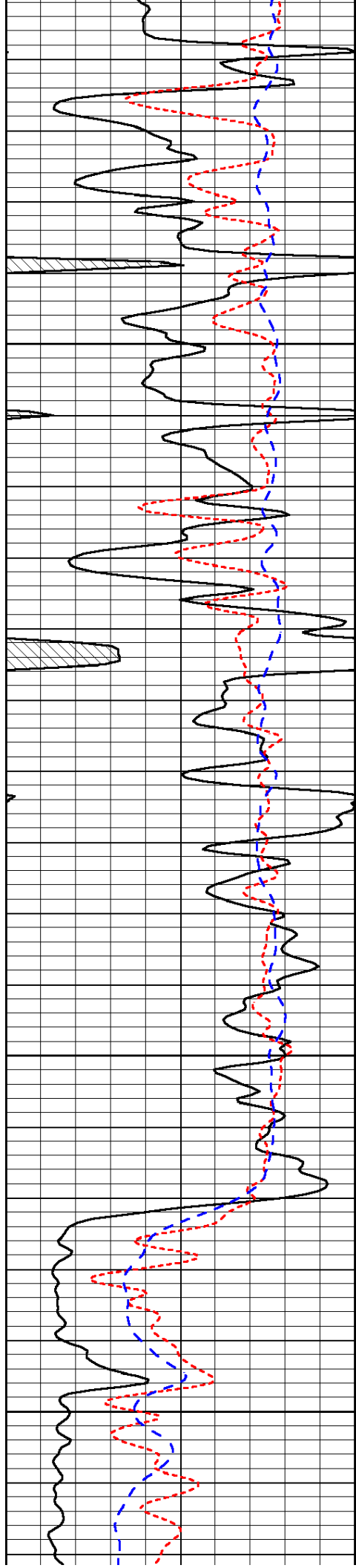
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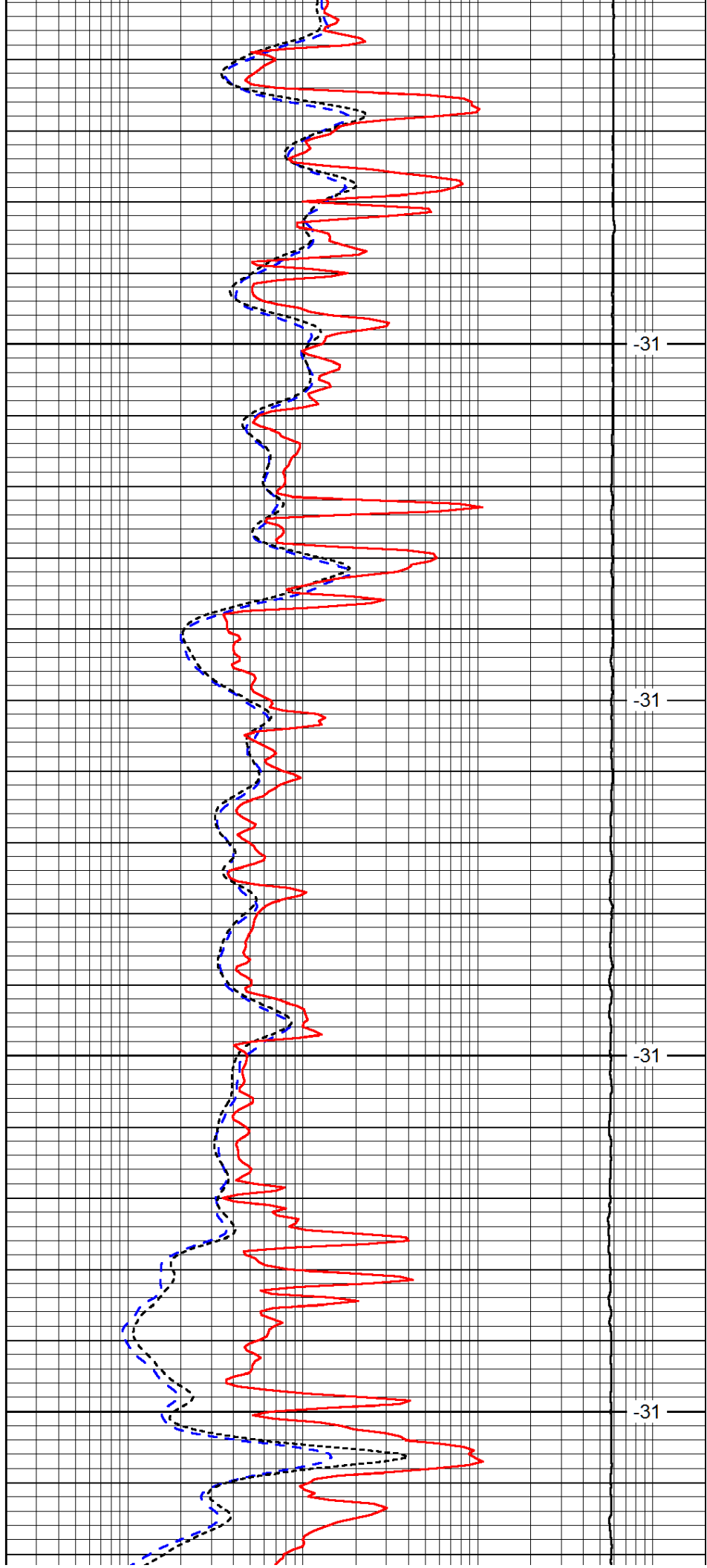


2850

2900

2950

3000

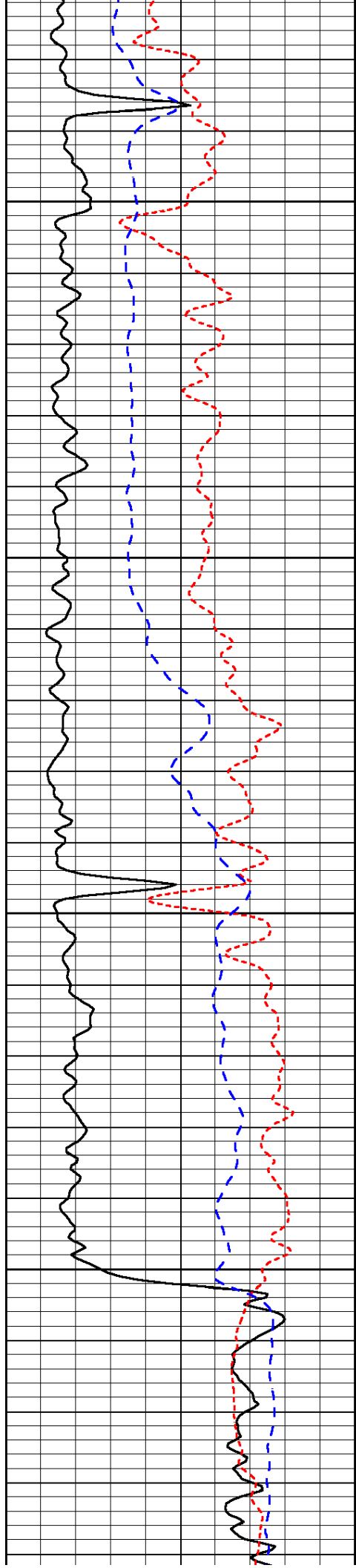


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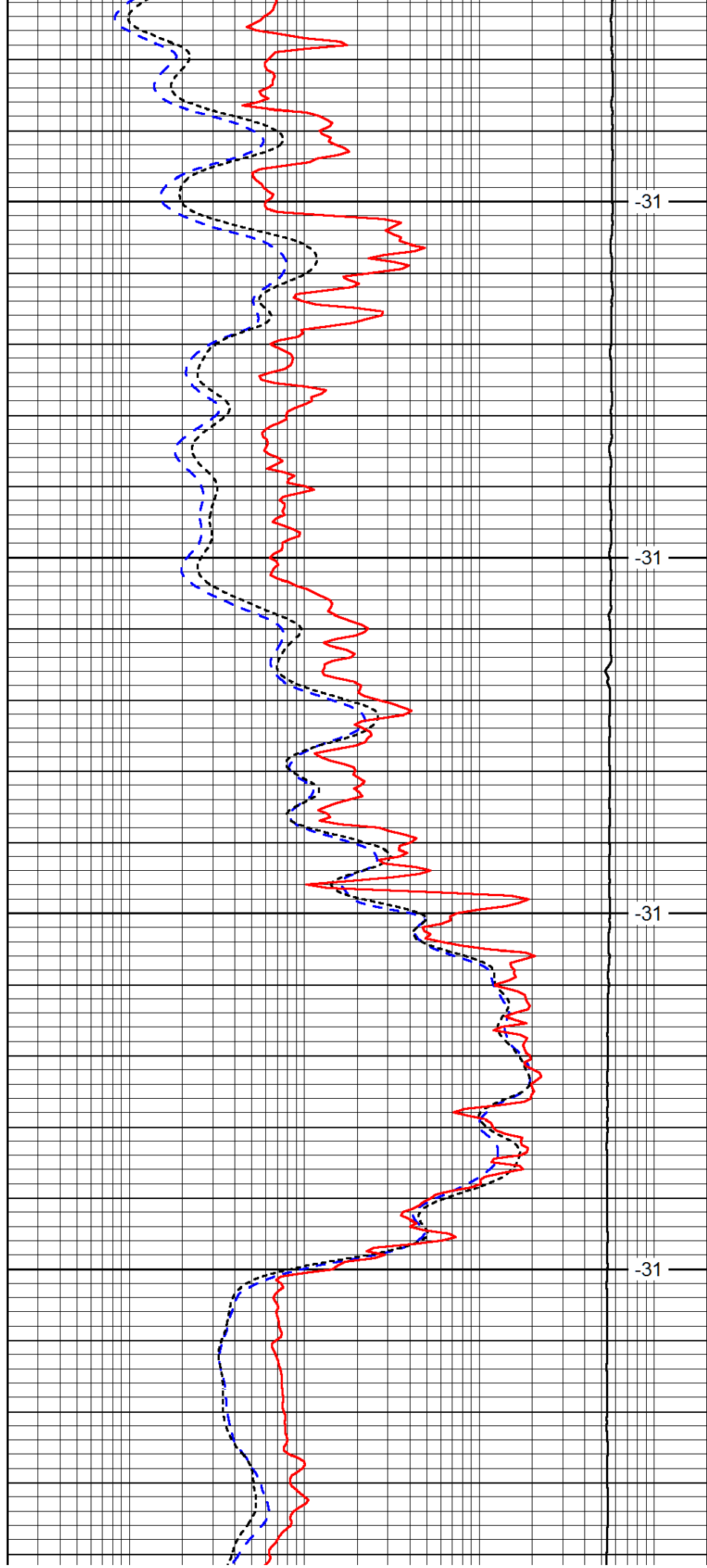


3050

3100

3150

3200

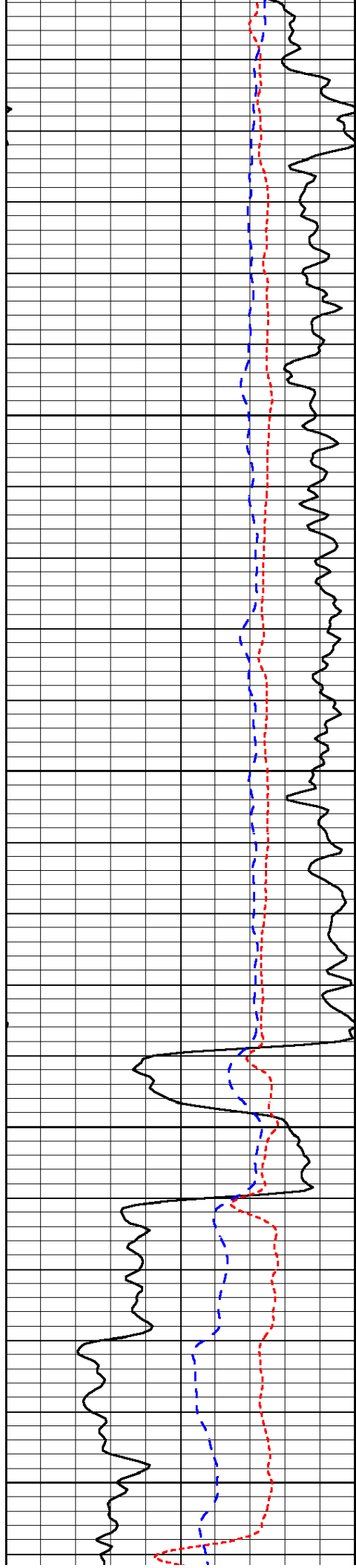


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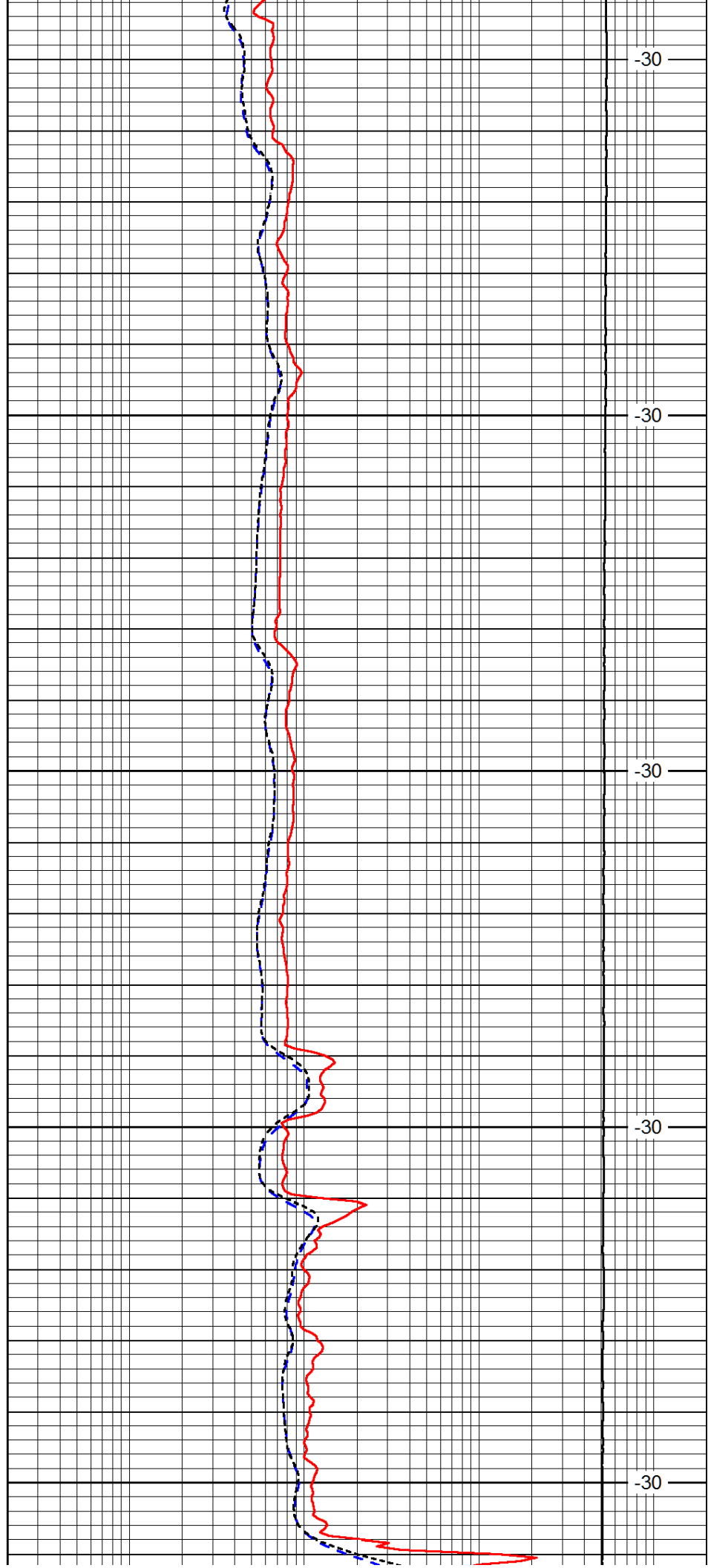
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3300

3350

3400

3450



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