



Dual Induction Log

Pioneer Energy Services

API No.

15-051-26,474-00-00

Company **Murfin Drilling Company, Inc.**

Well **Kraus-Stecklein Unit No. 1-28**

Field **Leonhardt**

County **Ellis** State

Kansas

Location **2,475' FNL & 1,500' FWL**

Sec: **28** Twp: **14S** Rge: **18W**

Other Services
CNL/CDL
MEL/BHCS

Permanent Datum **Ground Level** Elevation **2076**
Log Measured From **Kelly Bushing** **5** Ft. Above Perm. Datum
Drilling Measured From **Kelly Bushing**

Date **2/12/2013** Elevation **K.B. 2081**
D.F. 2076
G.L. 2076

Run Number **One**

Depth Driller **3790**

Depth Logger **3788**

Bottom Logged Interval **3787**

Top Log Interval **00**

Casing Driller **8.625 @ 217**

Casing Logger **217**

Bit Size **7.875**

Type Fluid in Hole **Chemical**

Salinity,ppm CL **12800**

Density / Viscosity **9.3 69**

pH / Fluid Loss **10.5 8.0**

Source of Sample **Flowline**

Rm @ Meas. Temp **.22 @ 62**

Rmf @ Meas. Temp **.17 @ 62**

Rmc @ Meas. Temp **.30 @ 62**

Source of Rmf / Rmc **Charts**

Rm @ BHT **.12 @ 114**

Operating Rig Time **4 Hours**

Max Rec. Temp. F **114**

Equipment Number **108**

Location **Hays**

Recorded By **J. Long**

Witnessed By **Paul Gunzelman**

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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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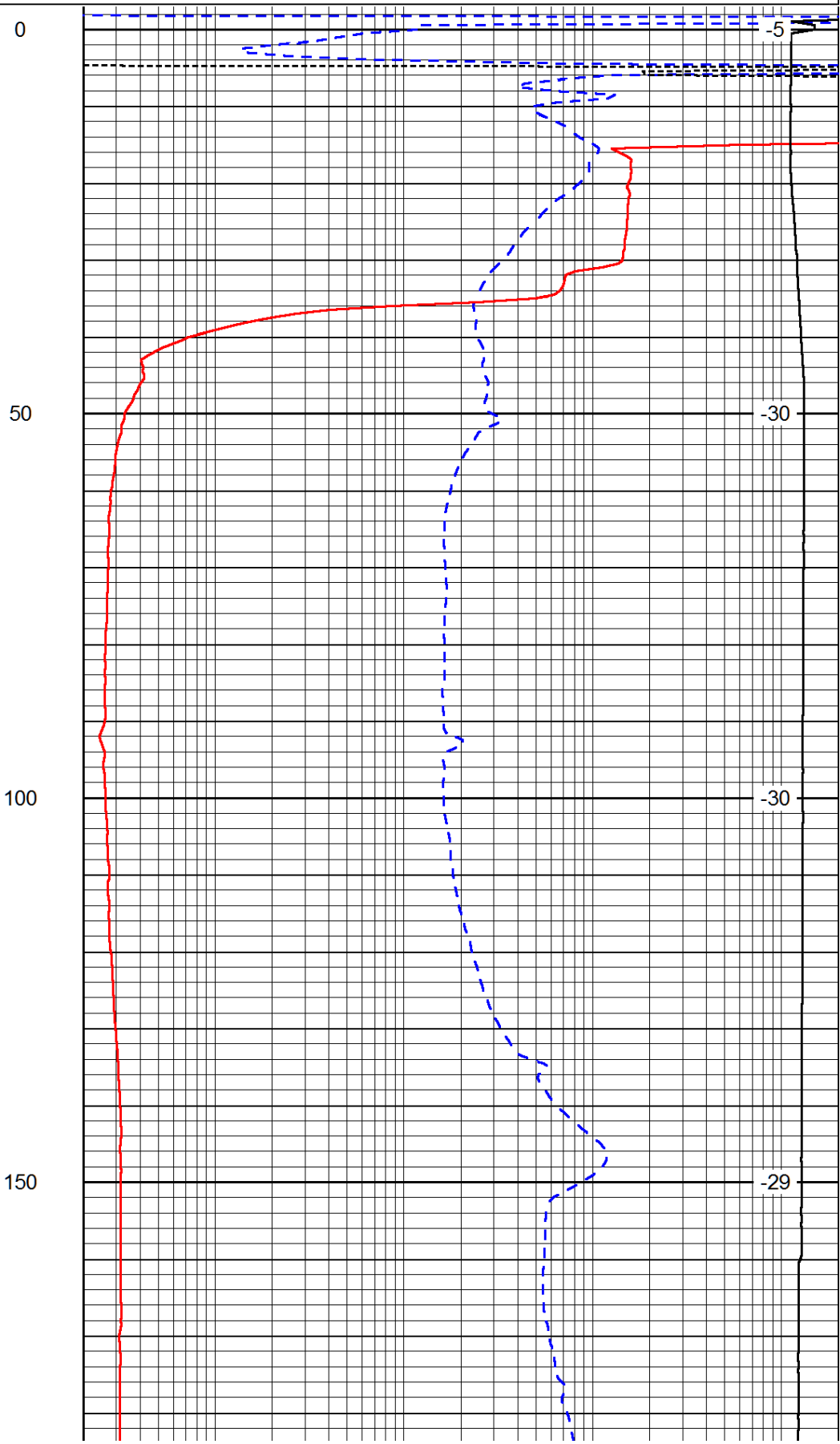
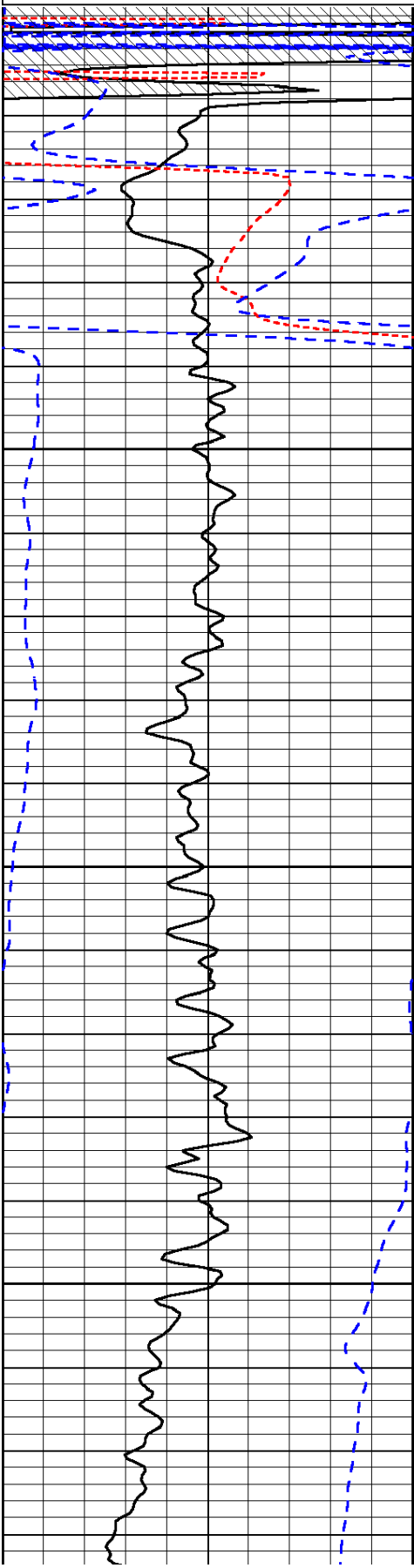
Hays, 3 1/2 South on 240th Avenue, East Into

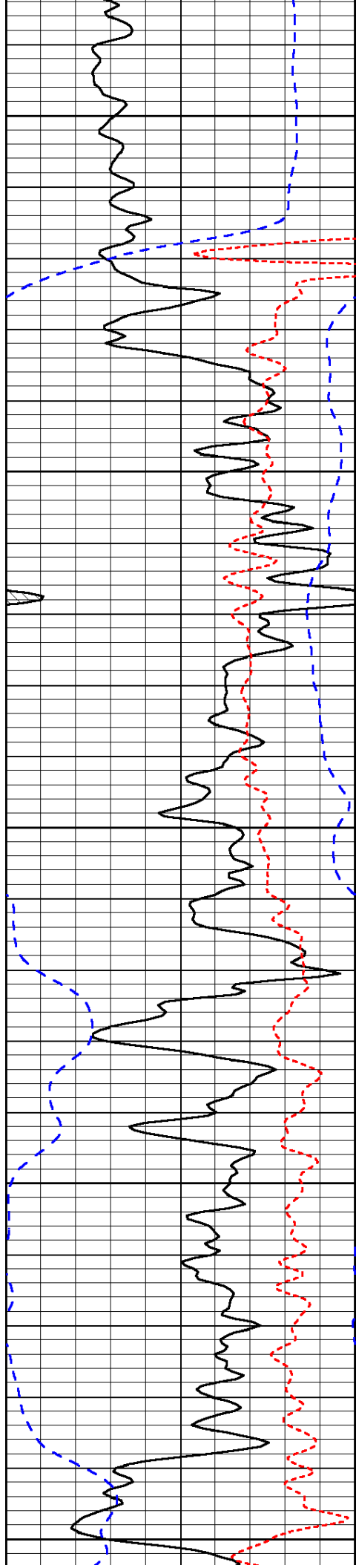
Database File: murfin_kraus-stecklein_1-28hd.db
Dataset Pathname: dil/murfstck
Presentation Format: dil
Dataset Creation: Tue Feb 12 05:33:24 2013
Charted by: Depth in Feet scaled 1:240

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)





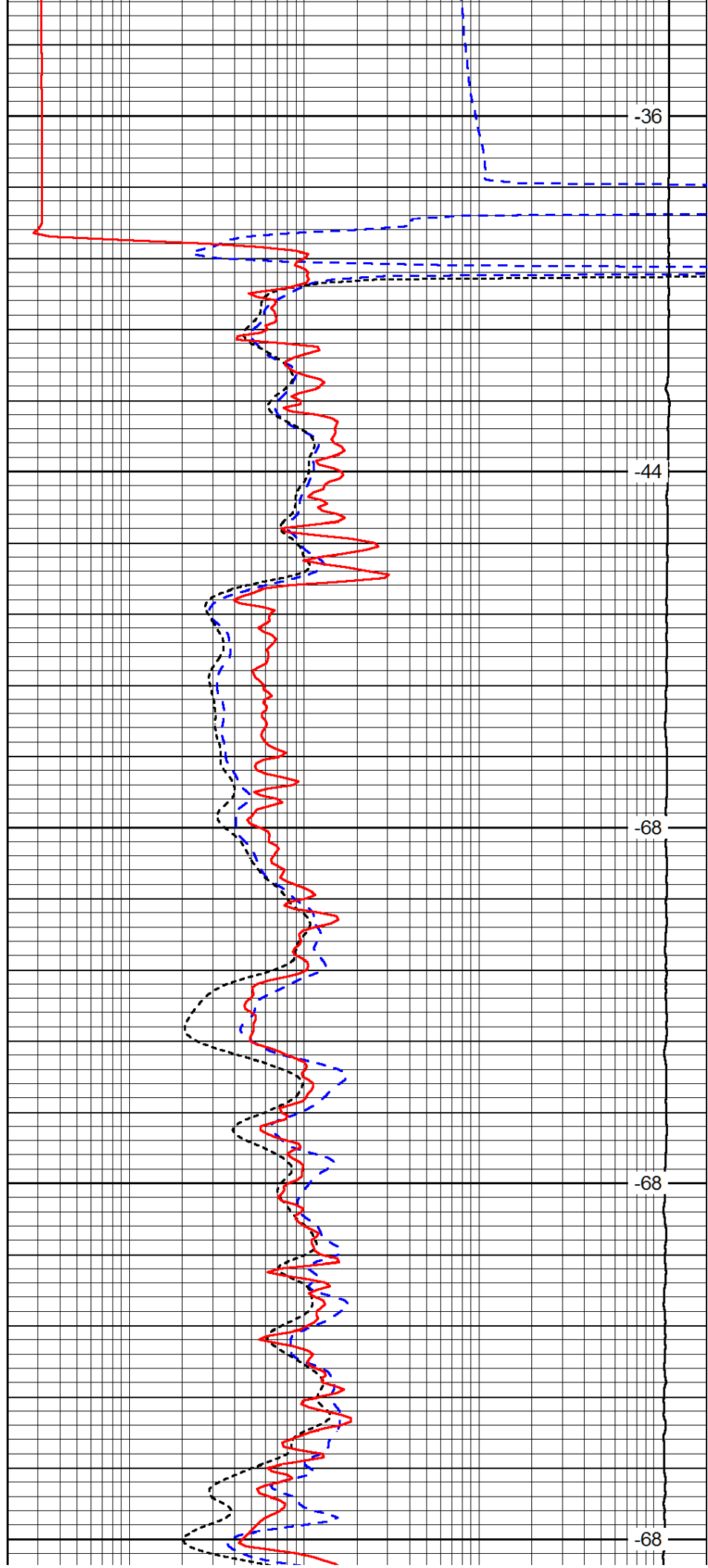
200

250

300

350

400



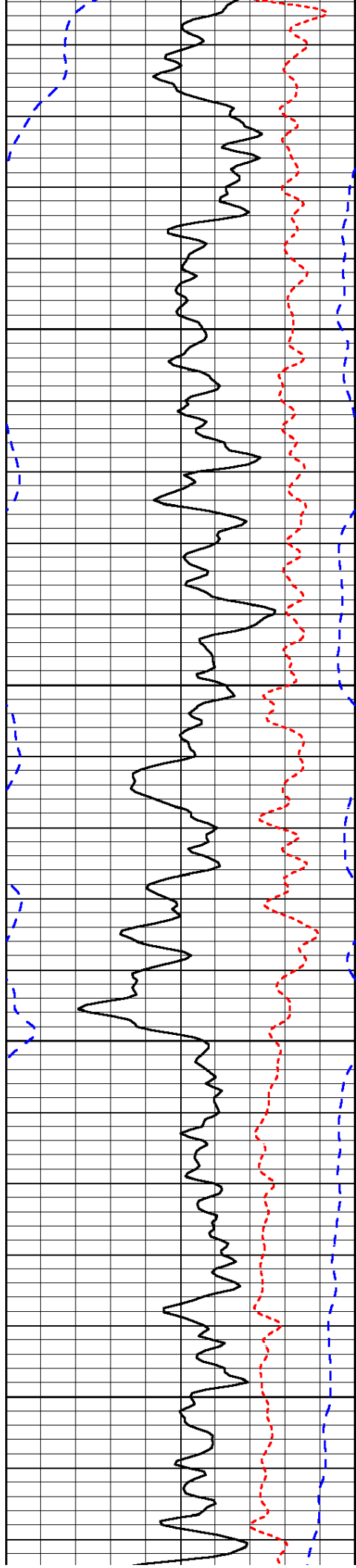
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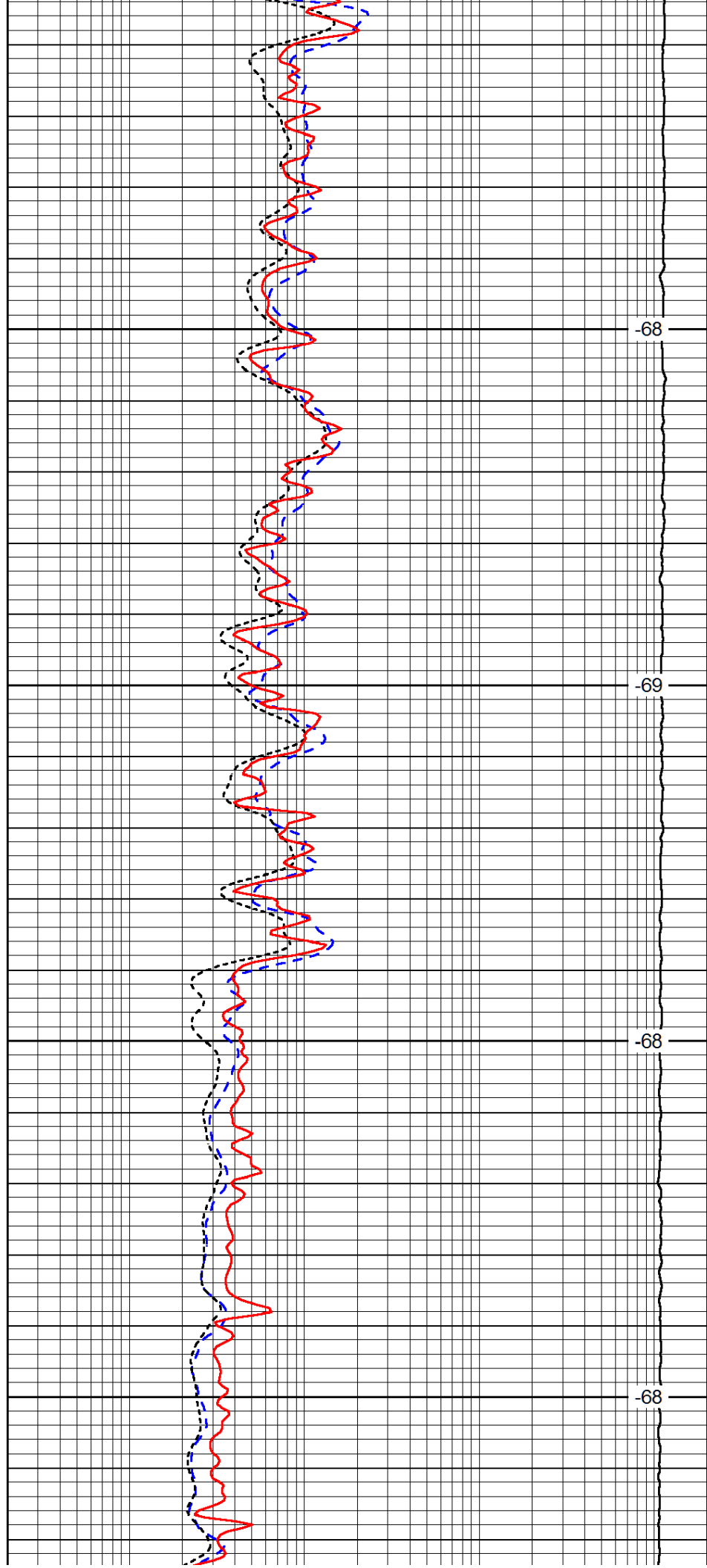


450

500

550

600

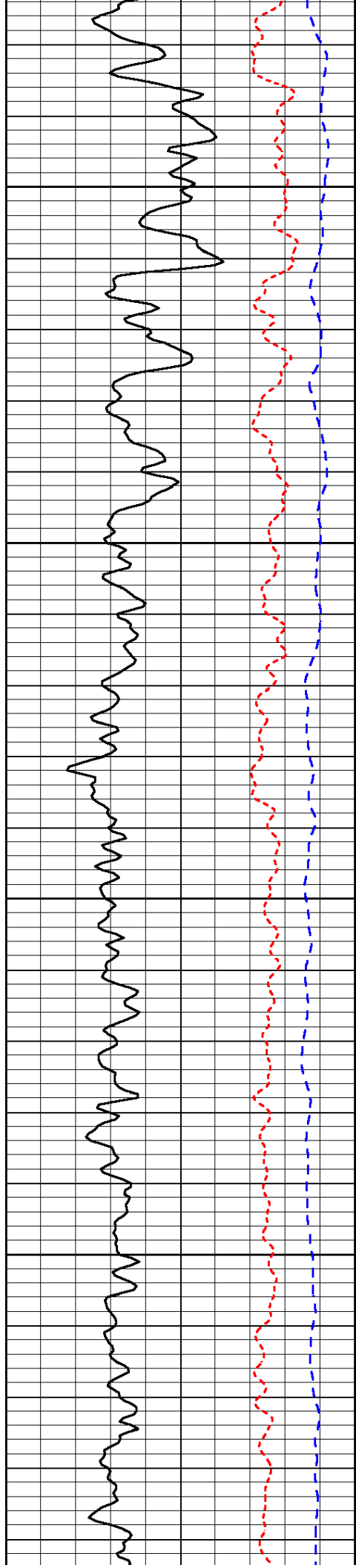


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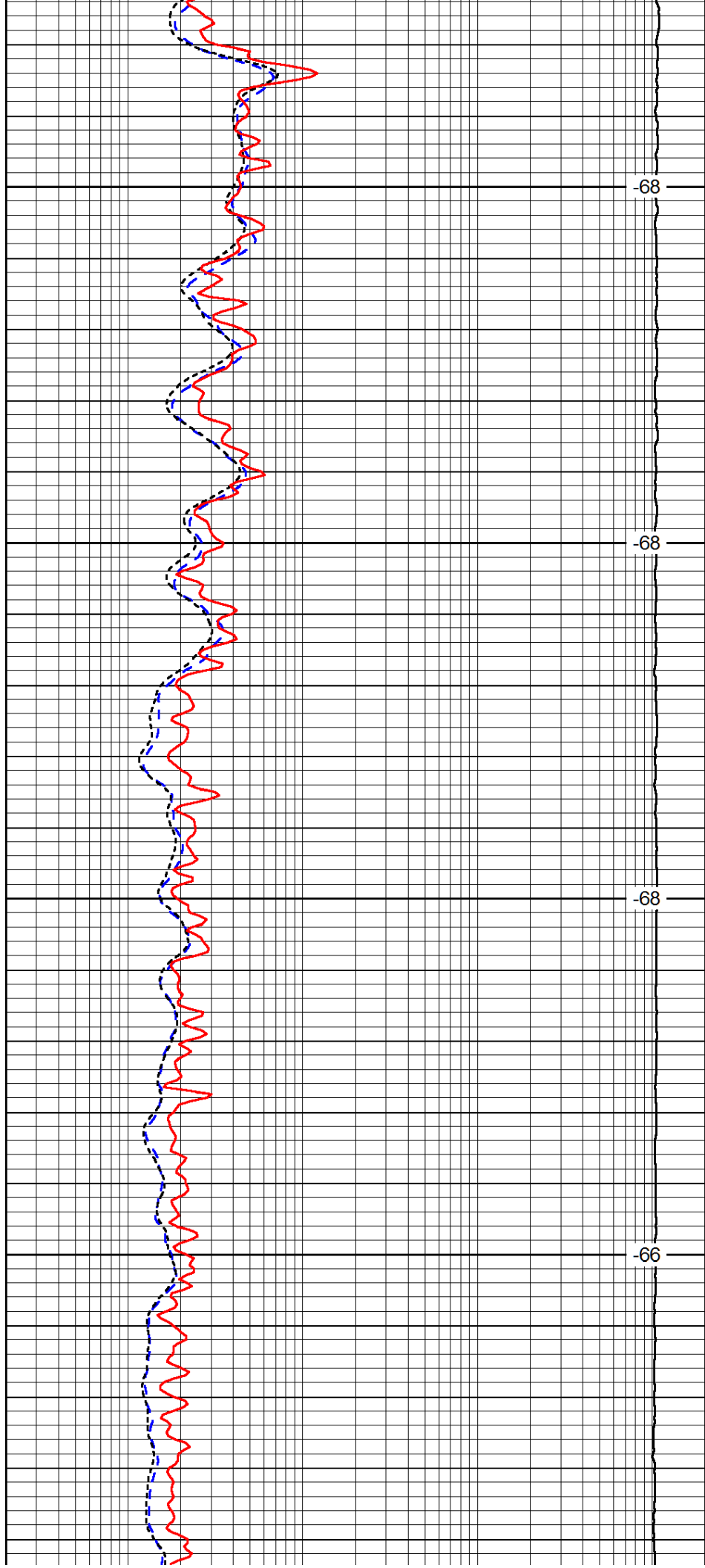


650

700

750

800

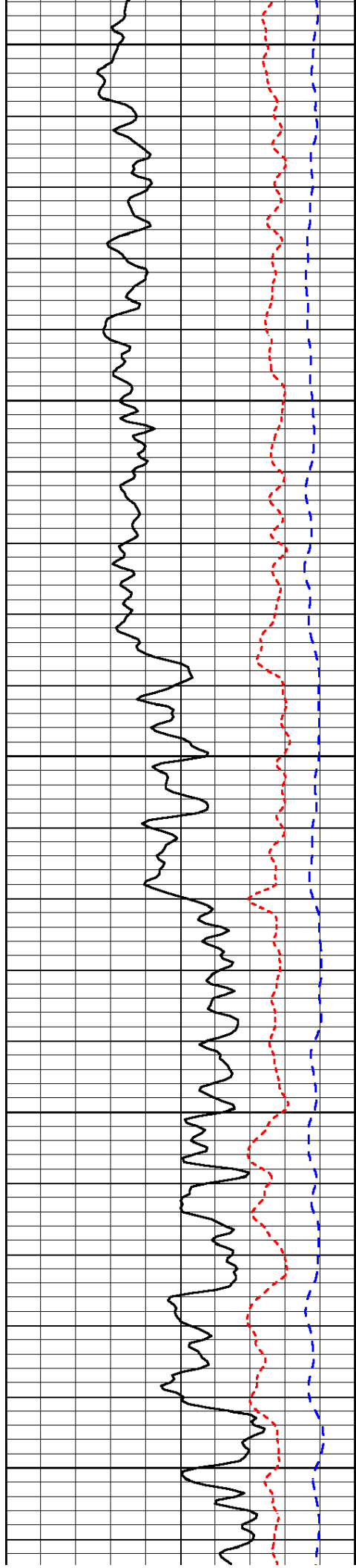


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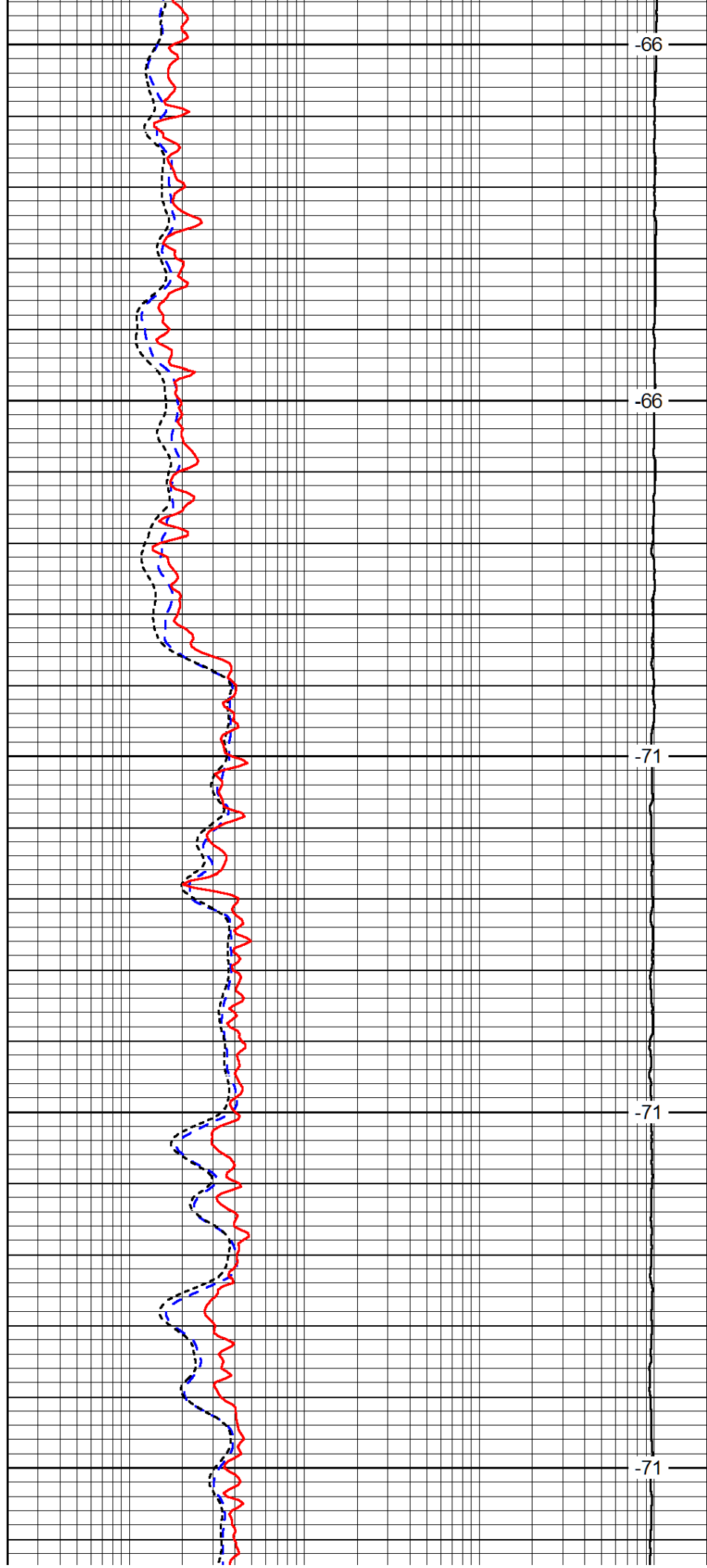
850

900

950

1000

1050



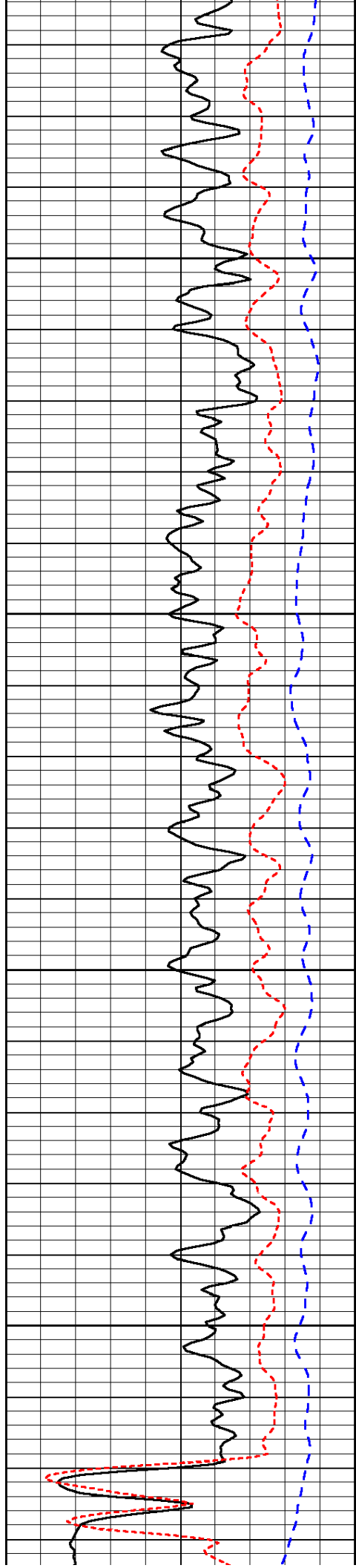
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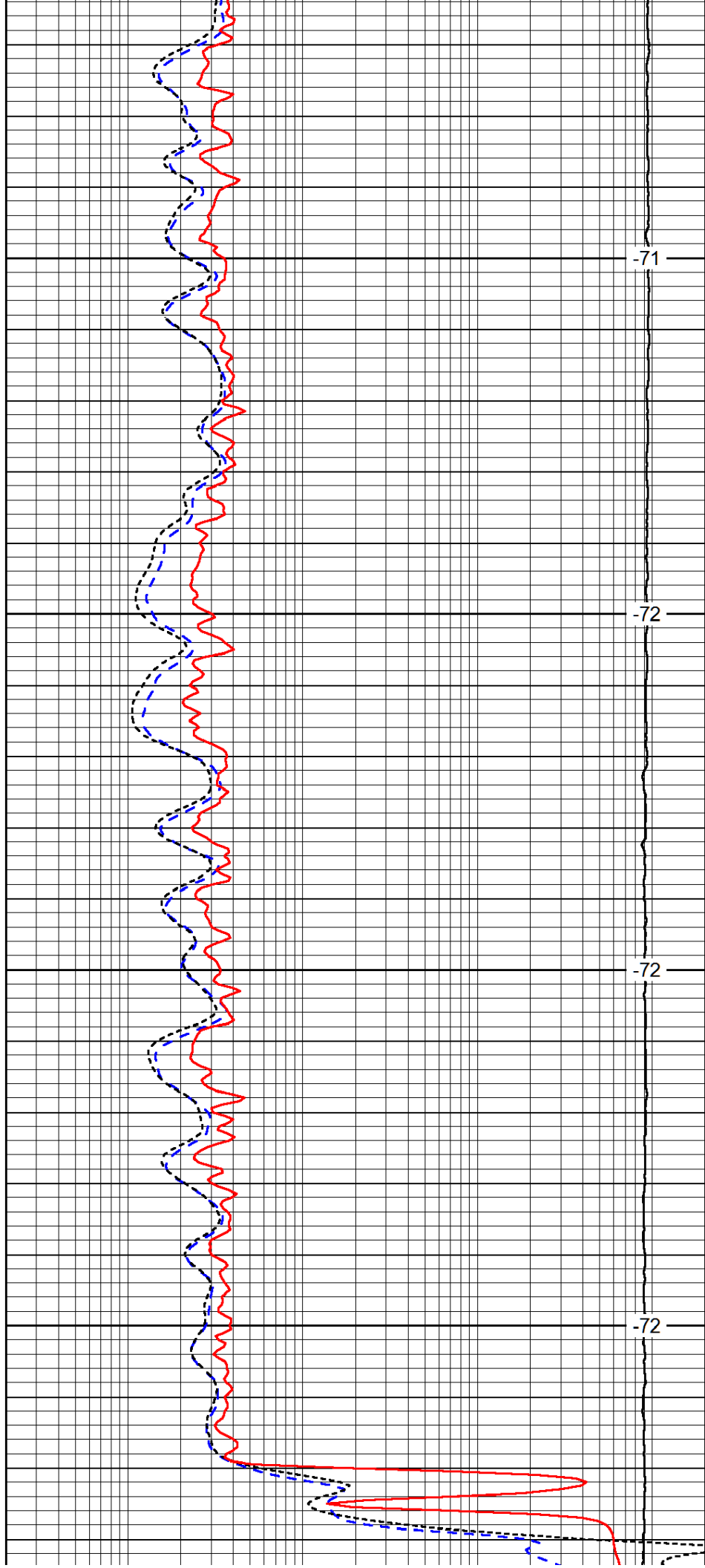


1100

1150

1200

1250

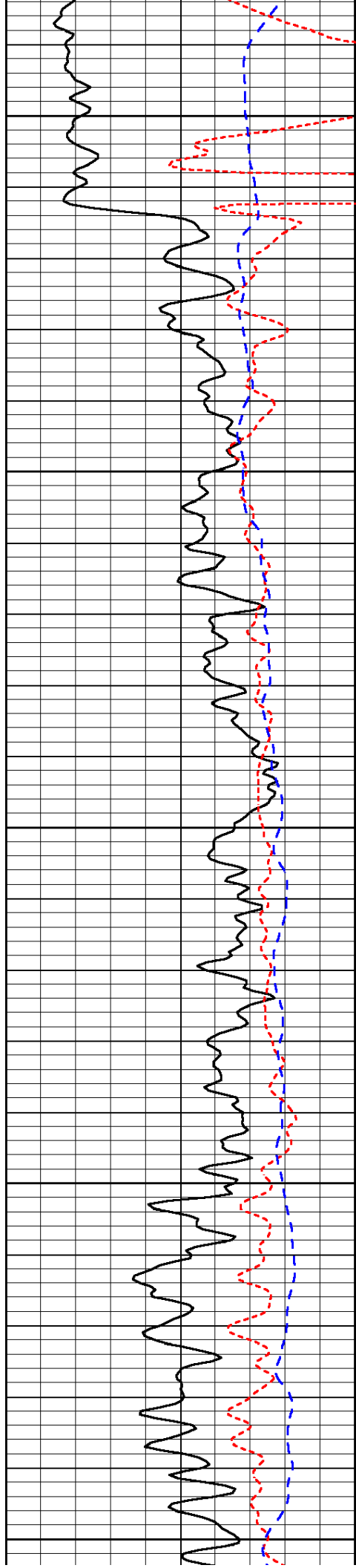


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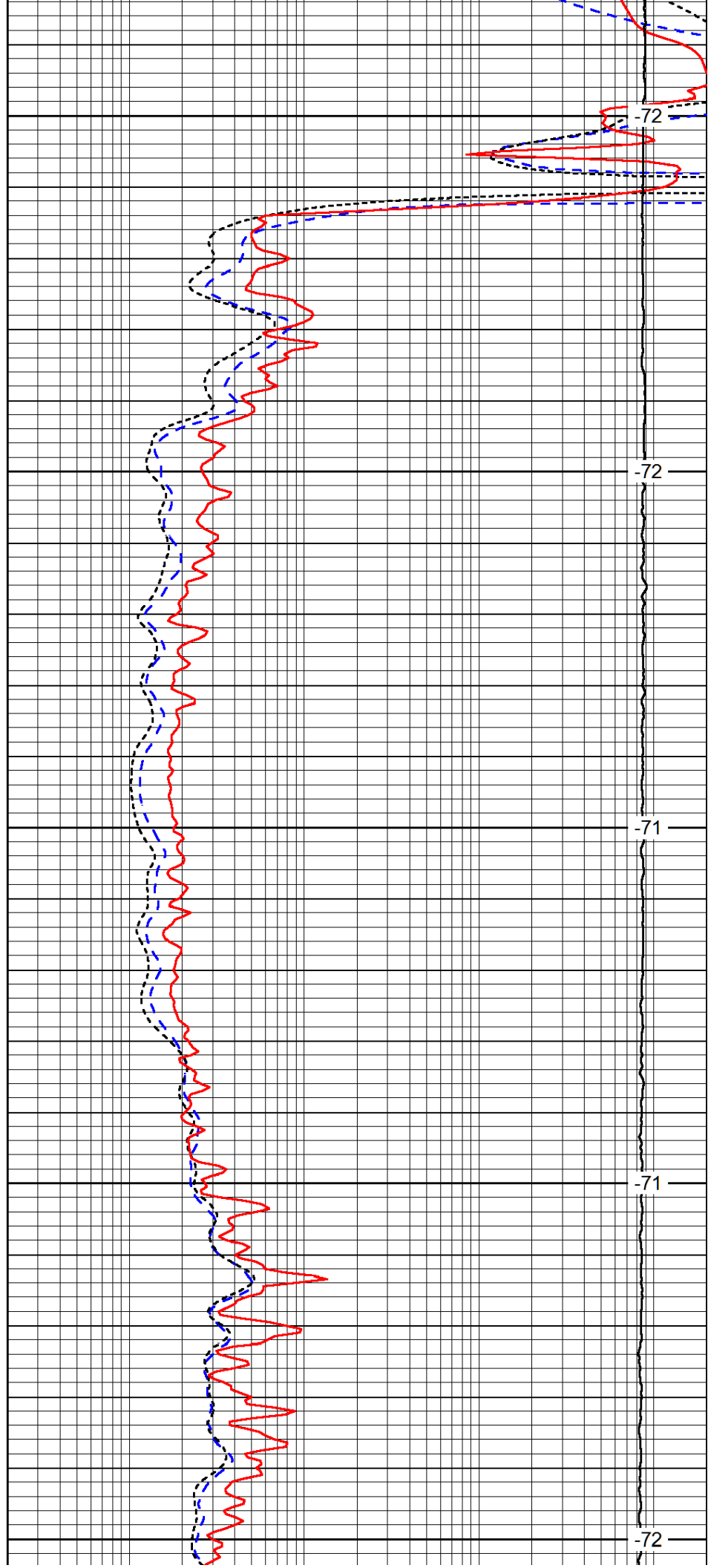
1300

1350

1400

1450

1500



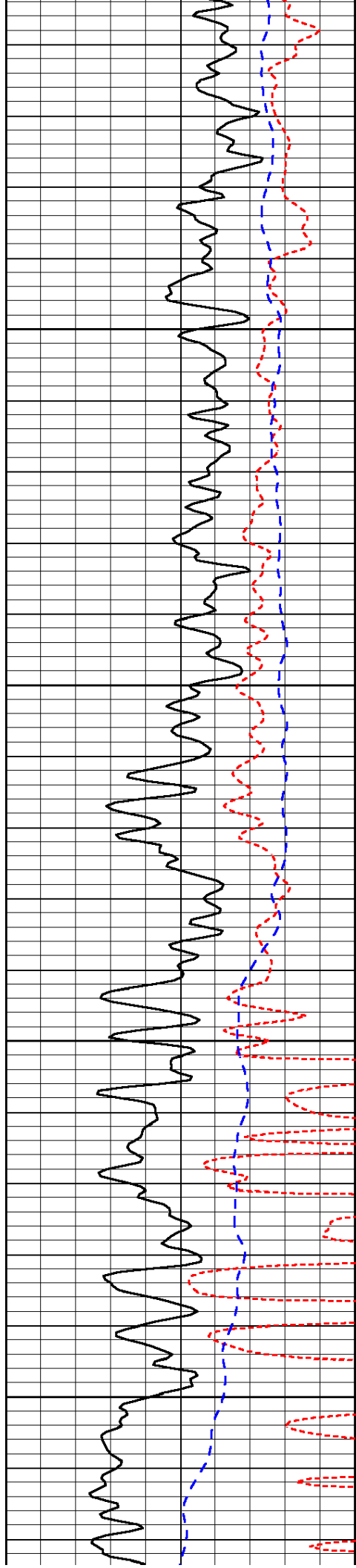
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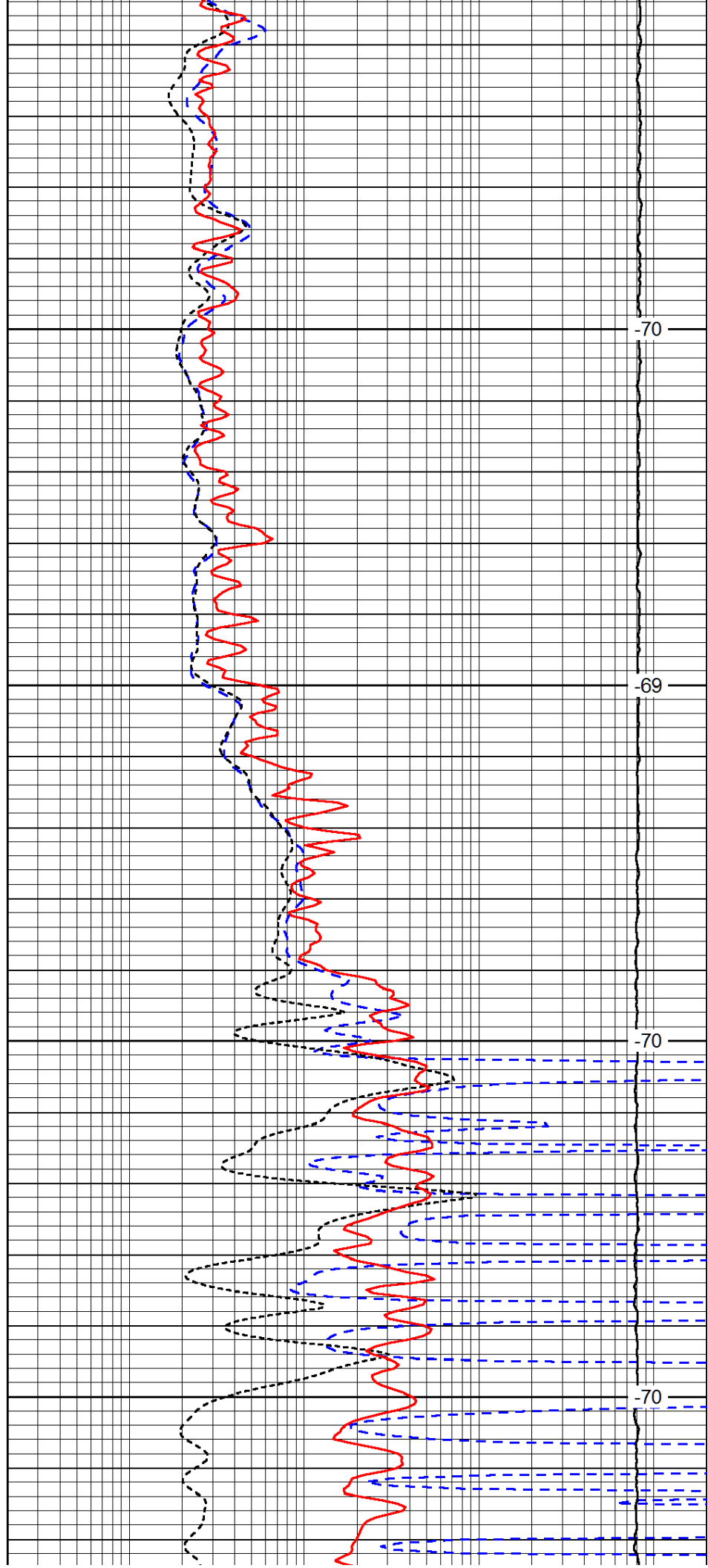


1550

1600

1650

1700

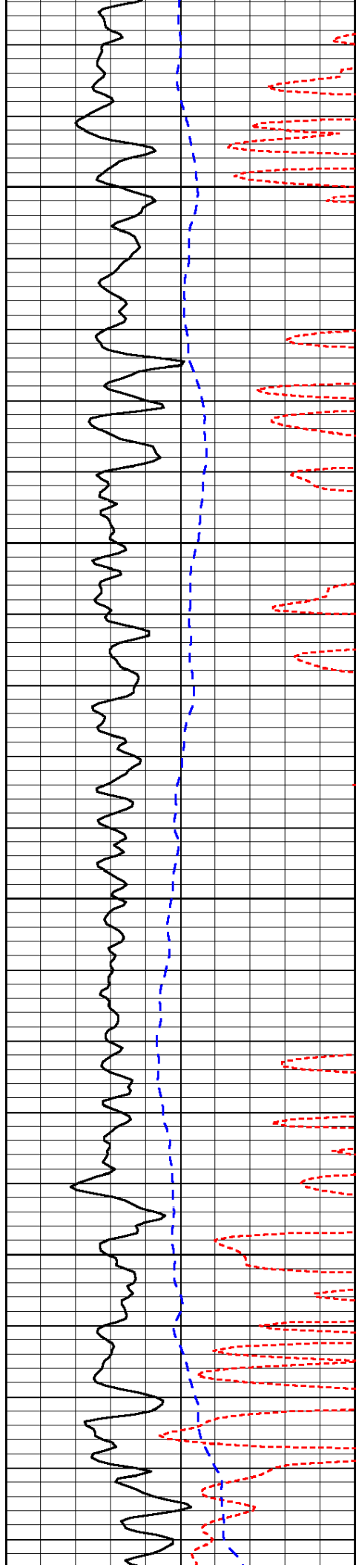


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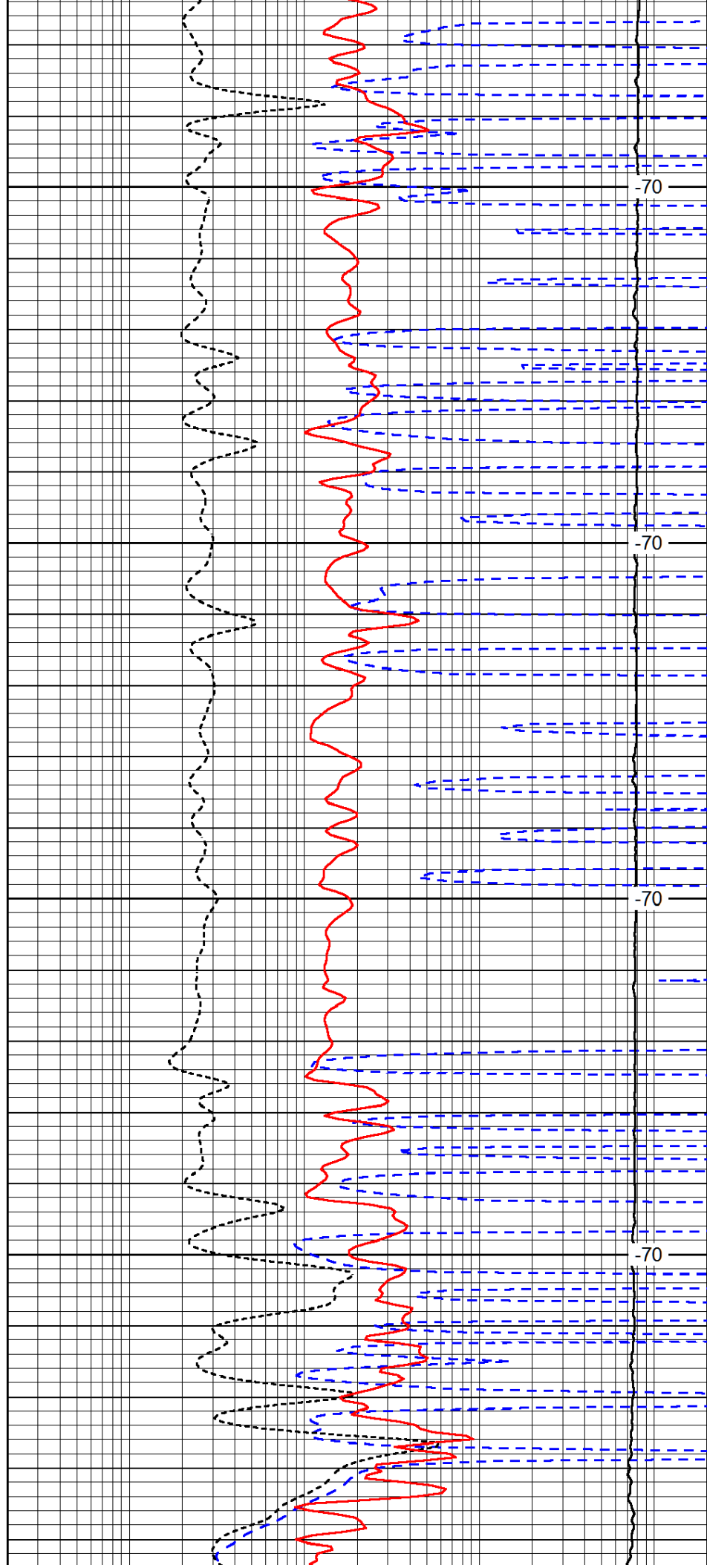


1750

1800

1850

1900

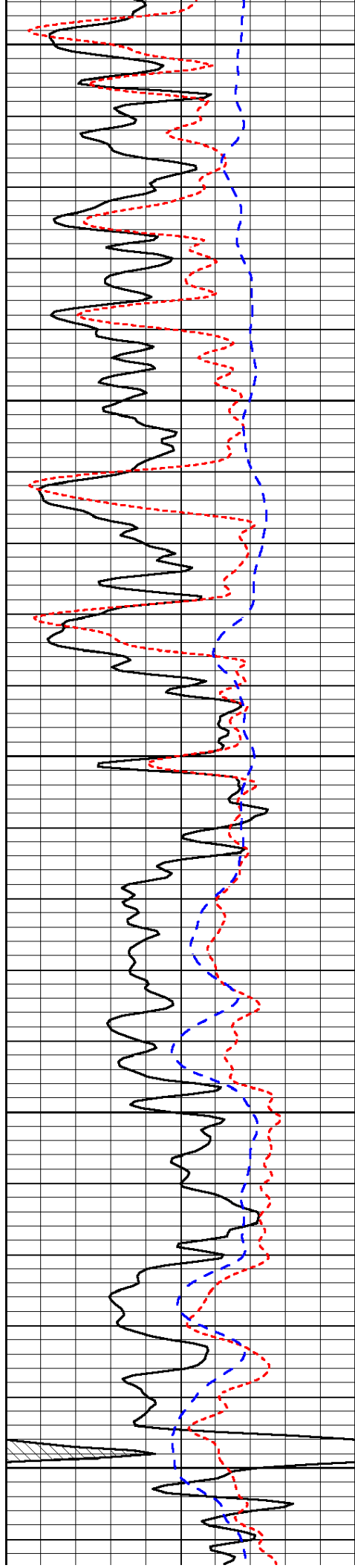


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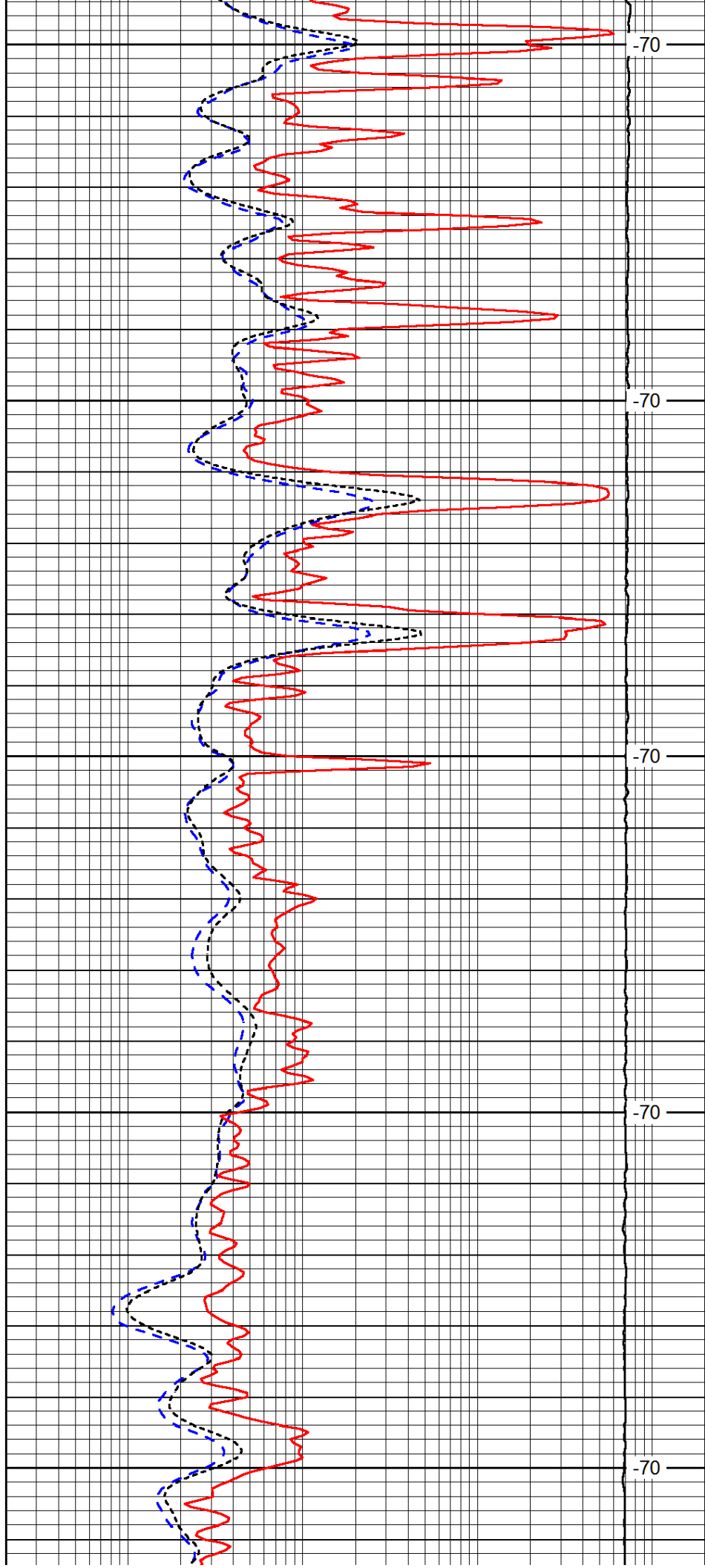
1950

2000

2050

2100

2150



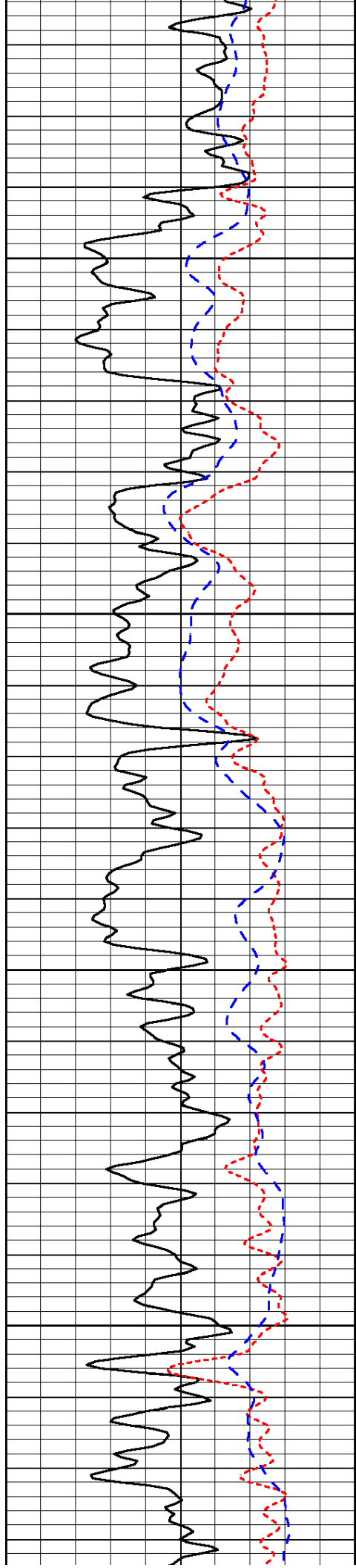
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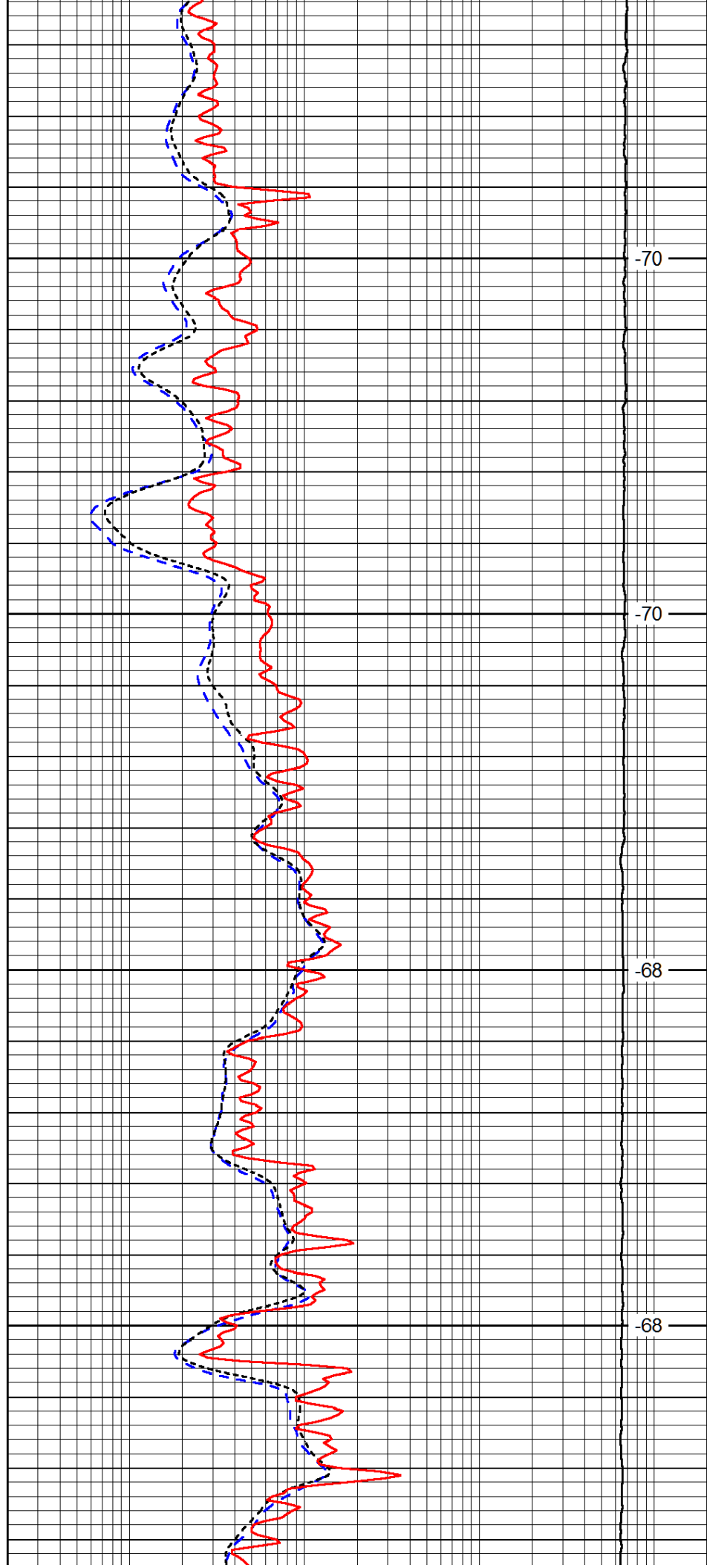


2200

2250

2300

2350

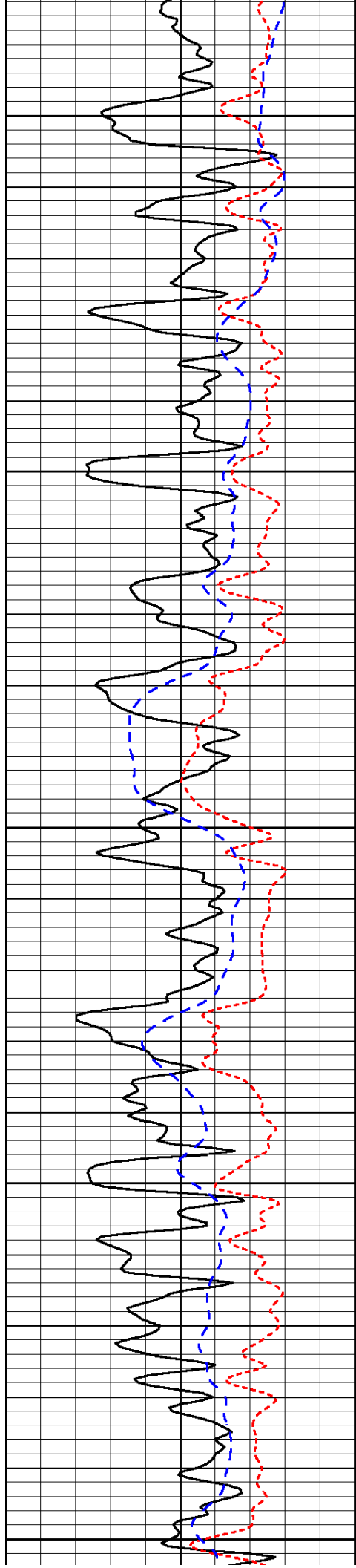


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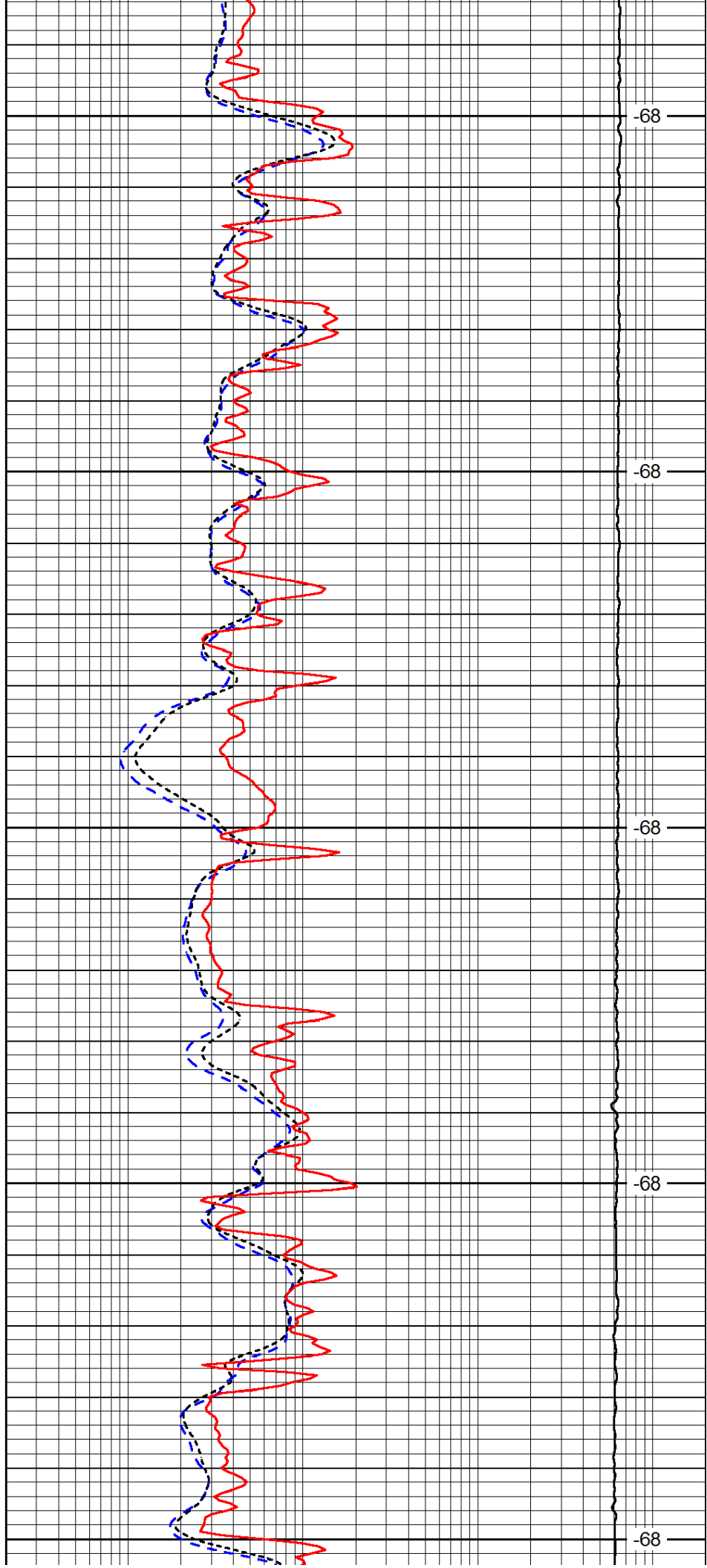
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2450

2500

2550

2600



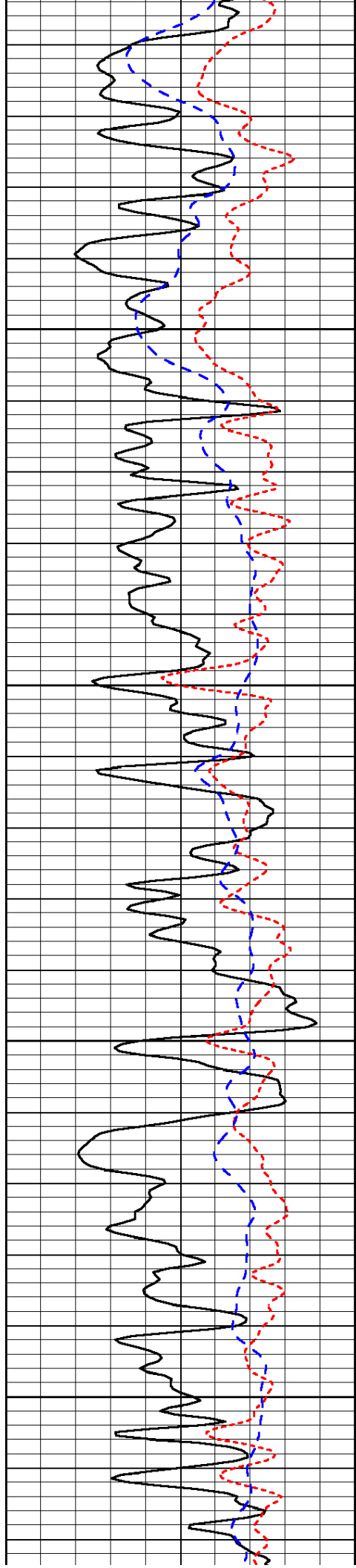
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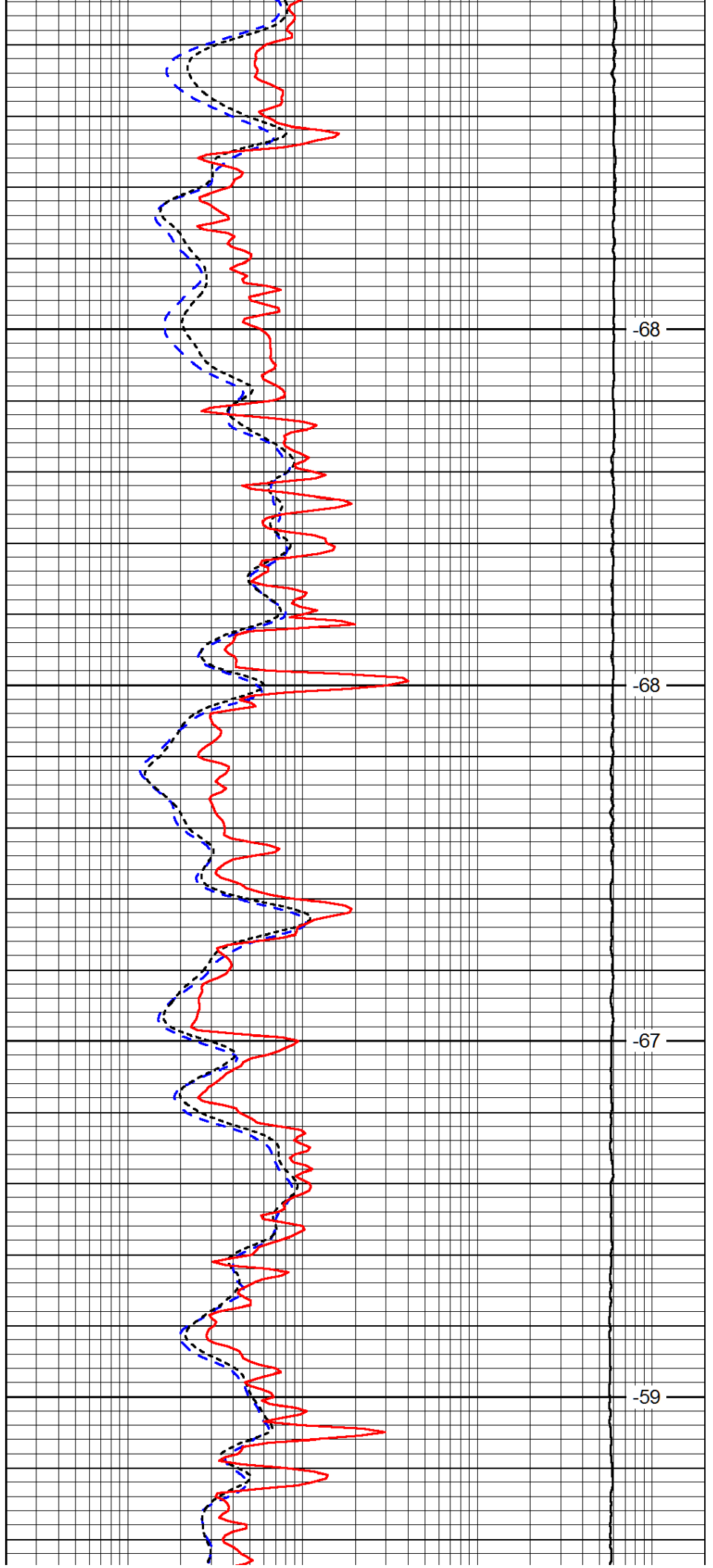


2650

2700

2750

2800

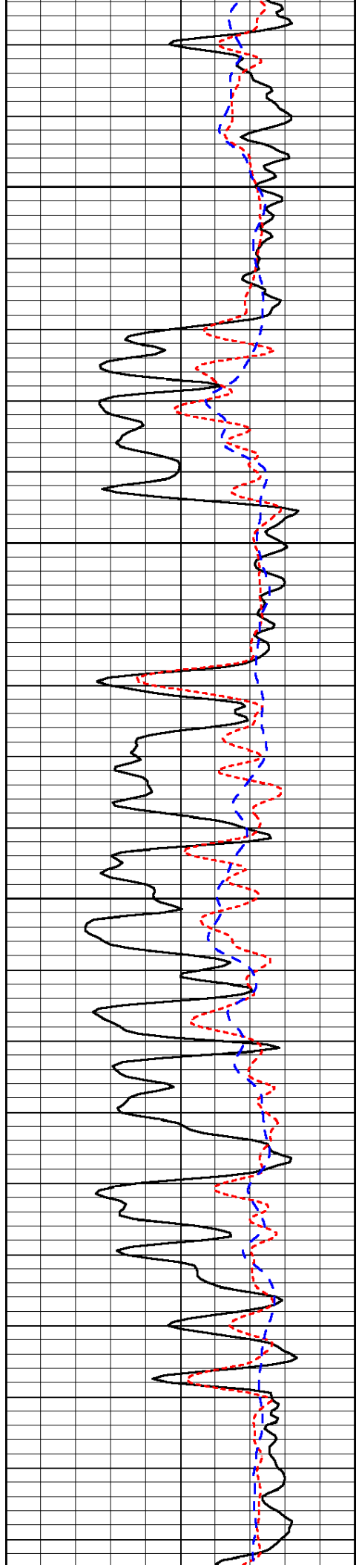


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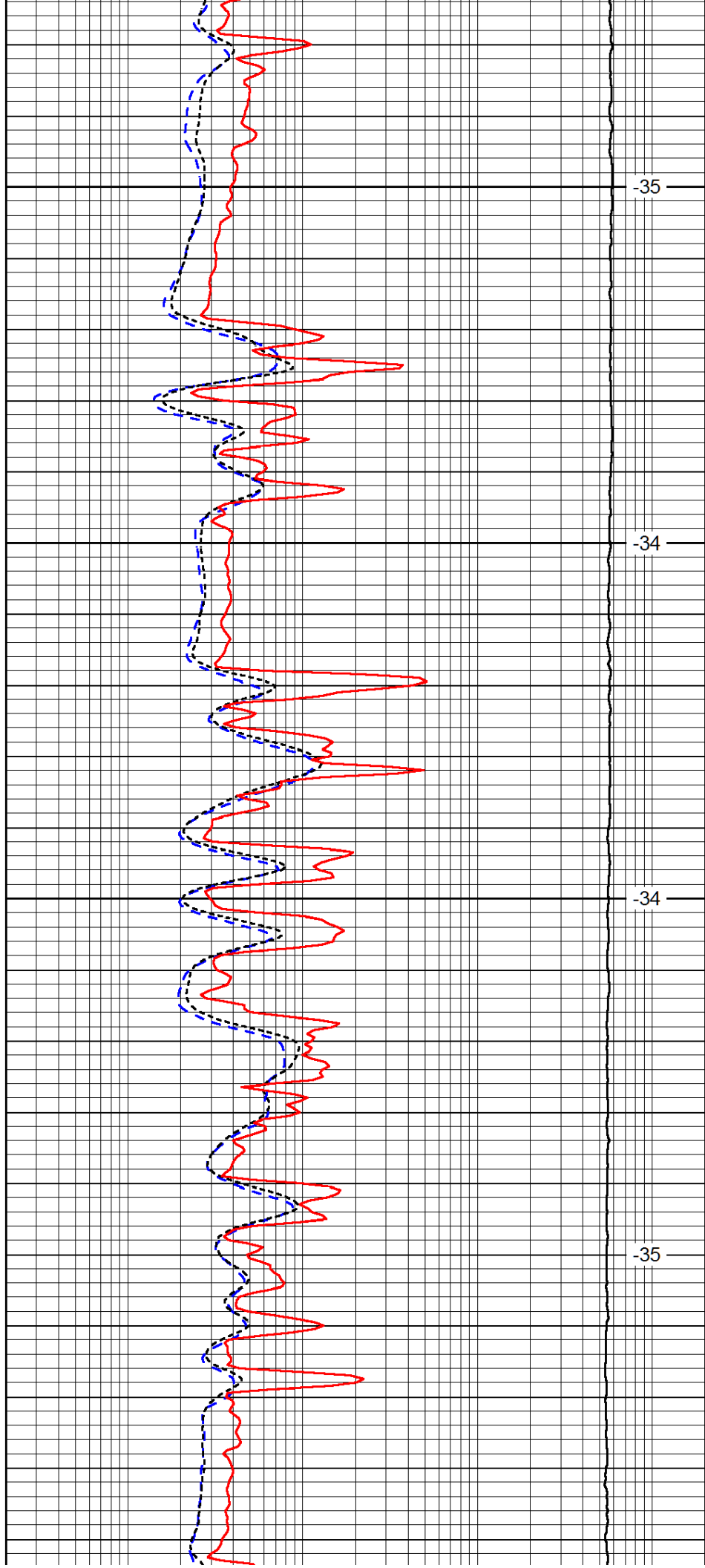


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2900

2950

3000

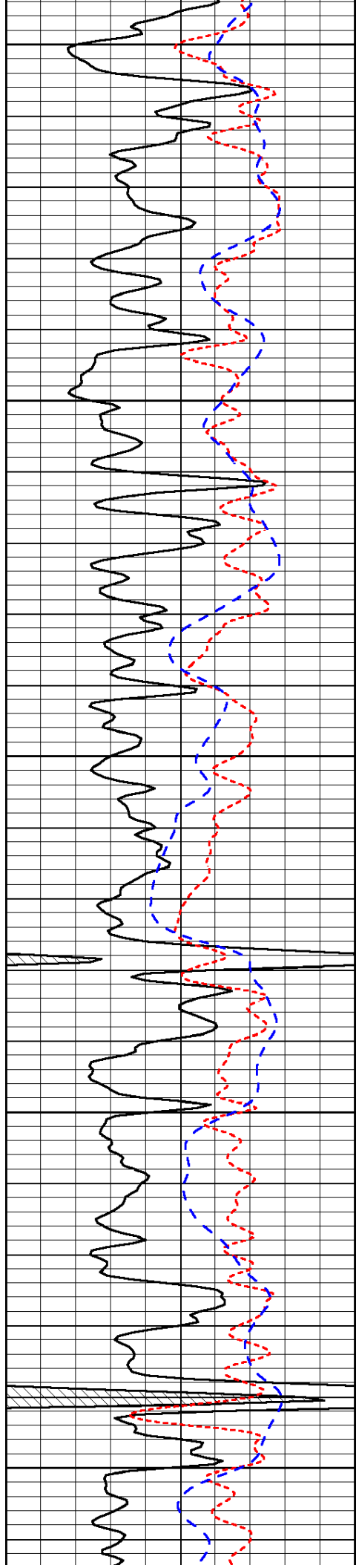


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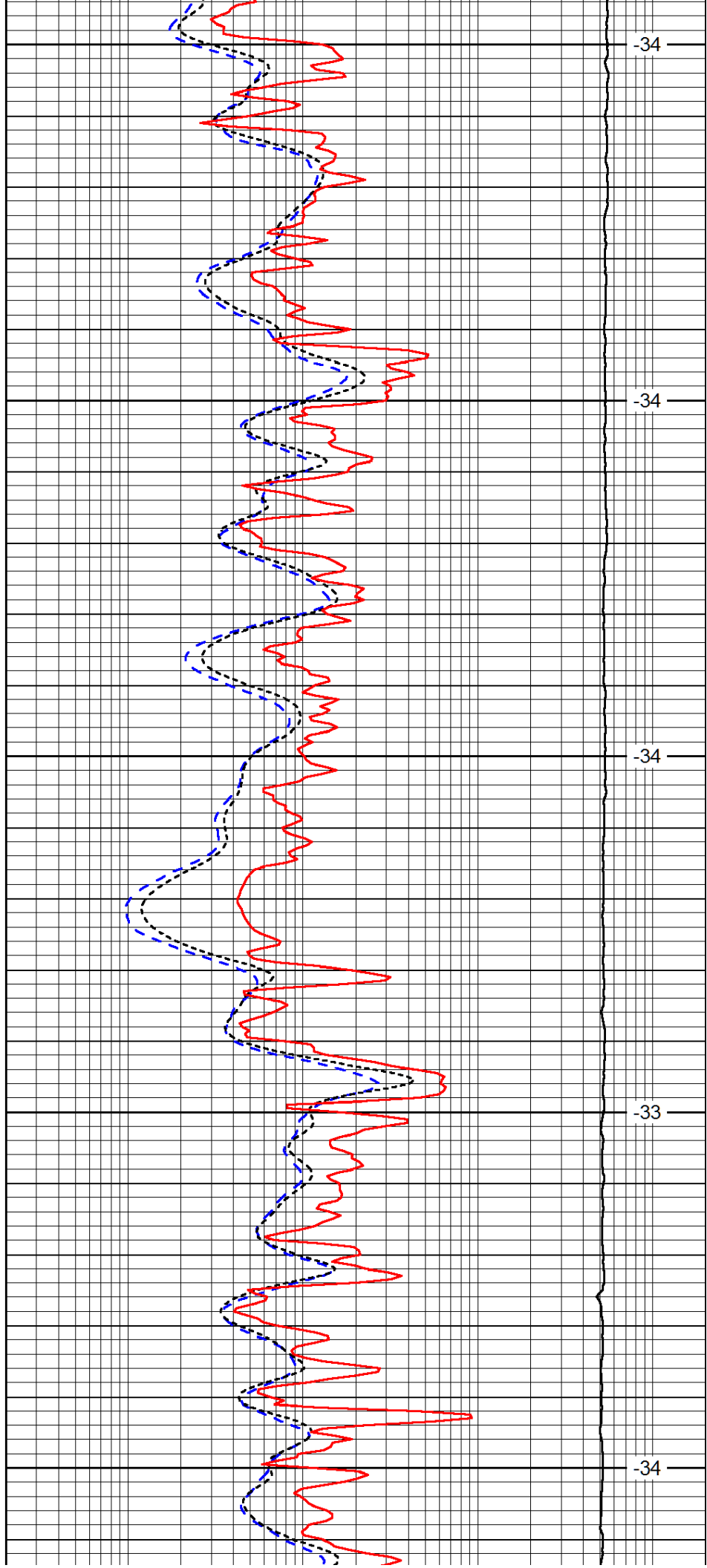
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3100

3150

3200

3250



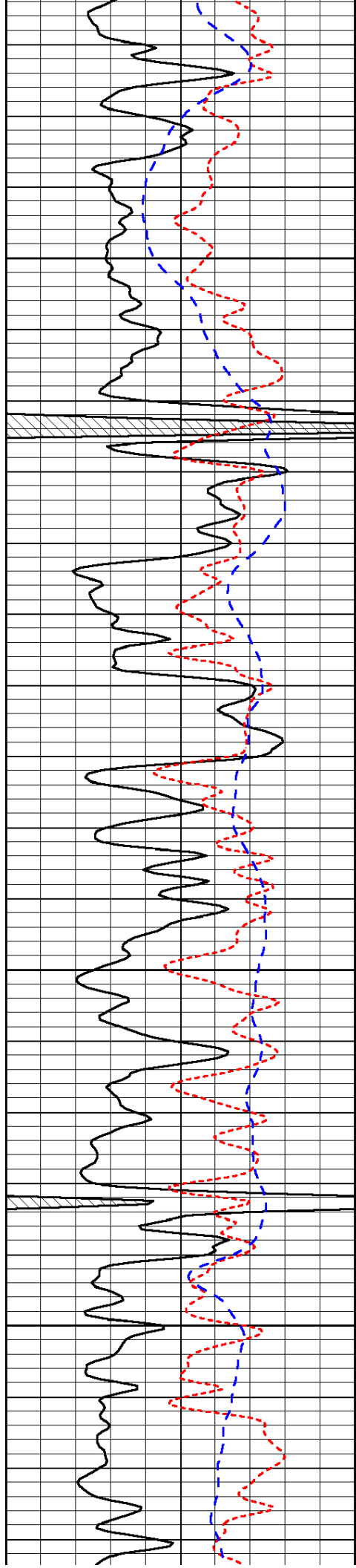
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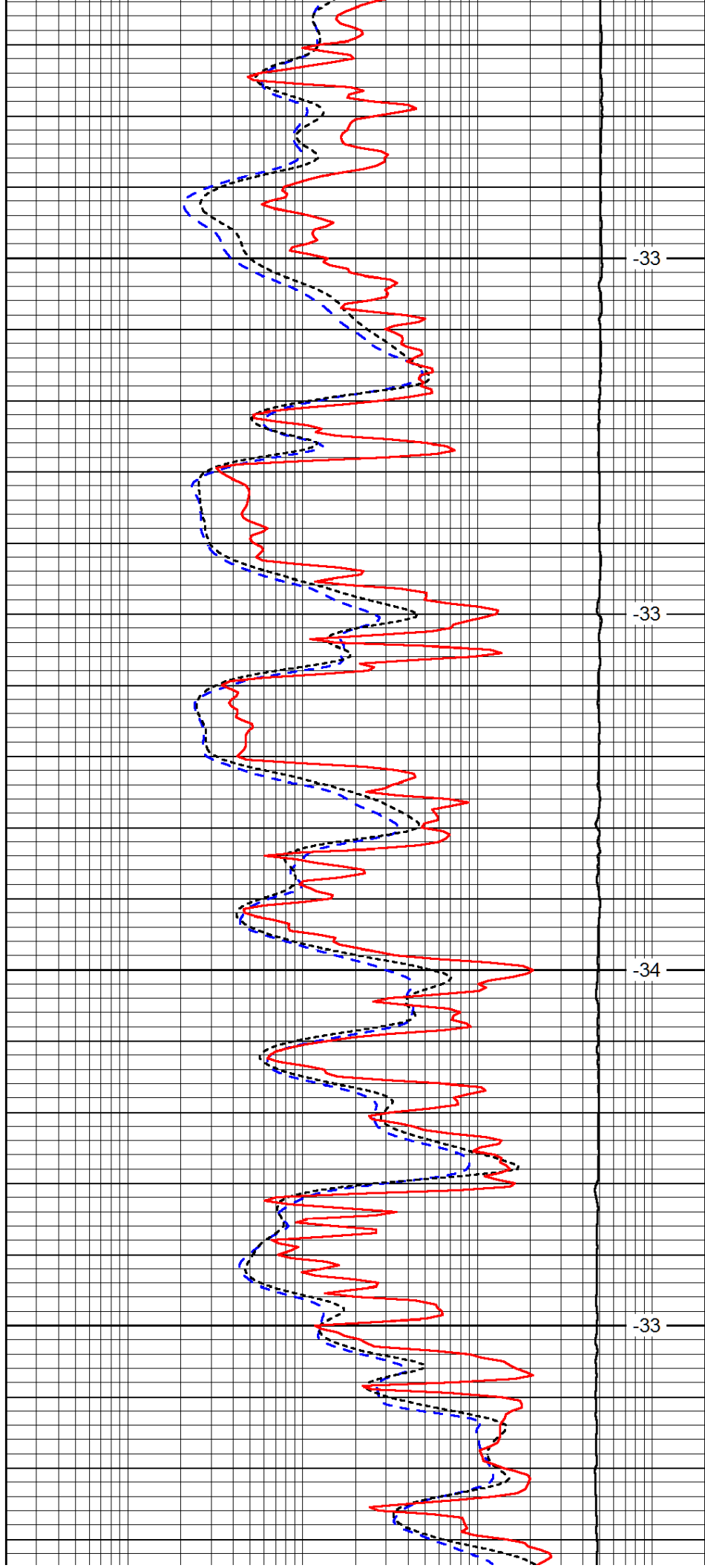


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3400

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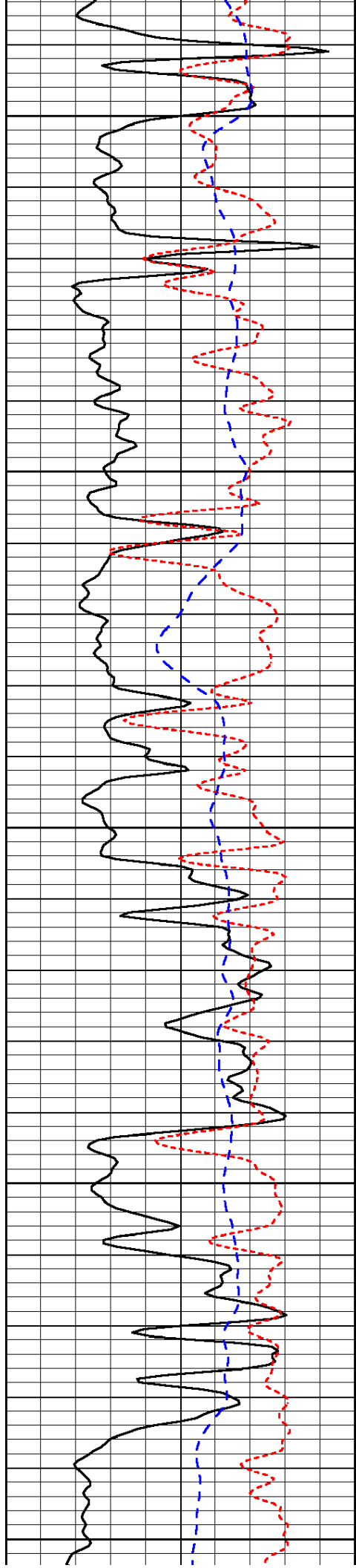


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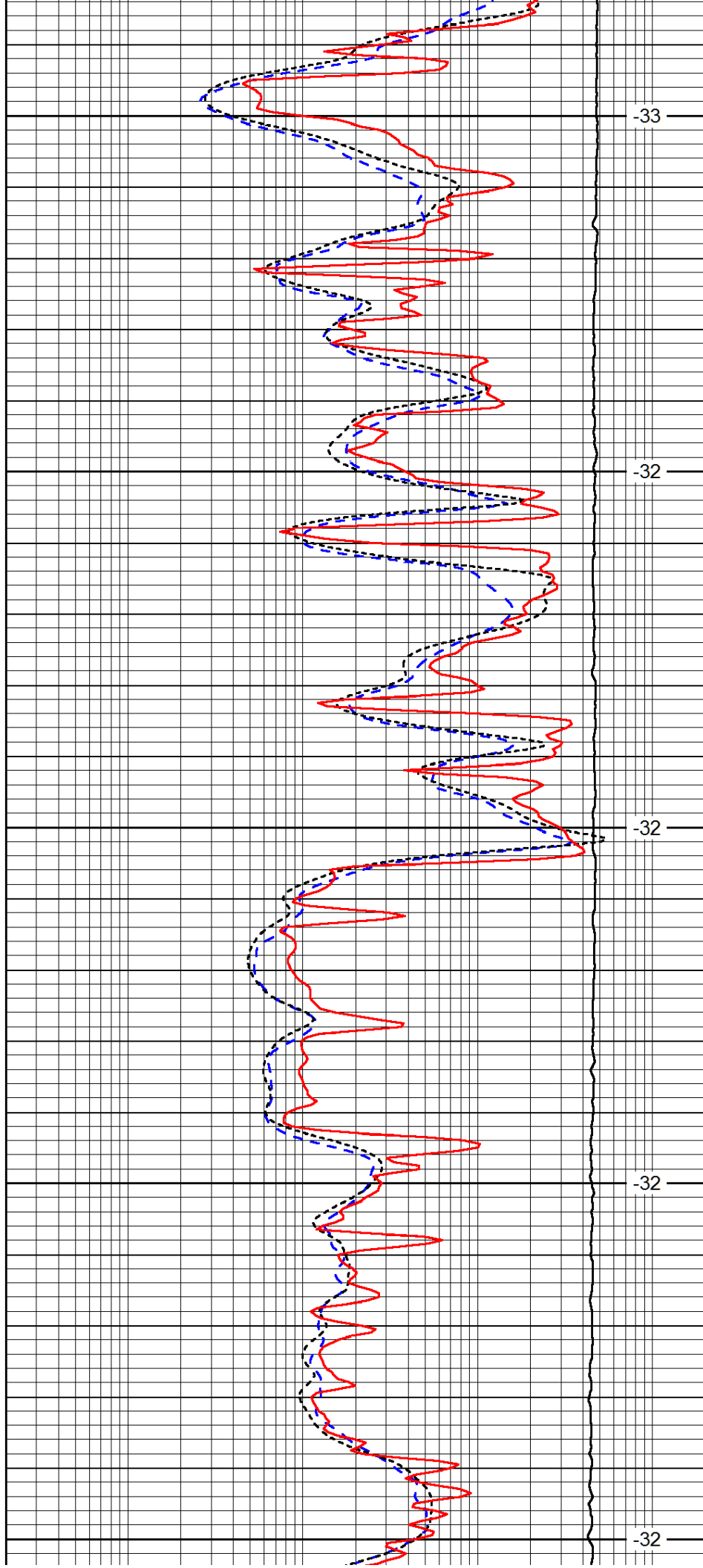
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3550

3600

3650

3700



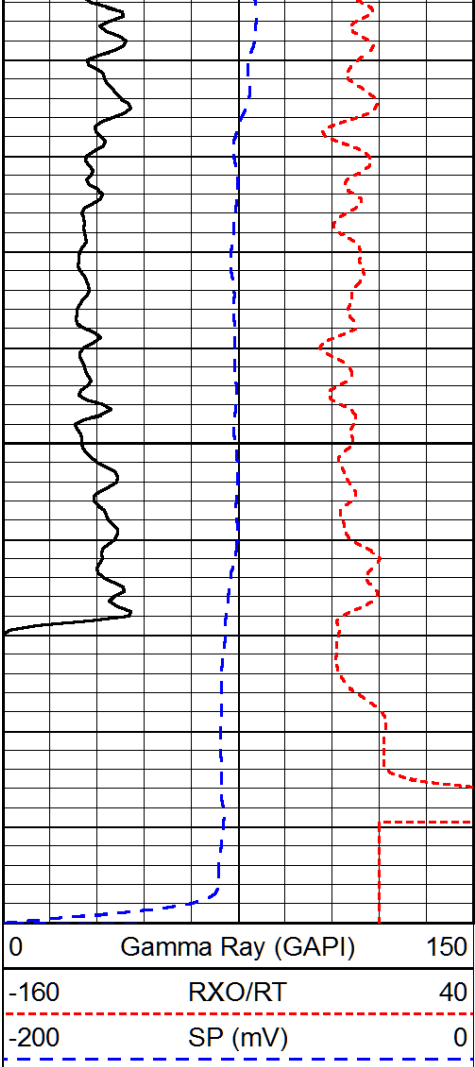
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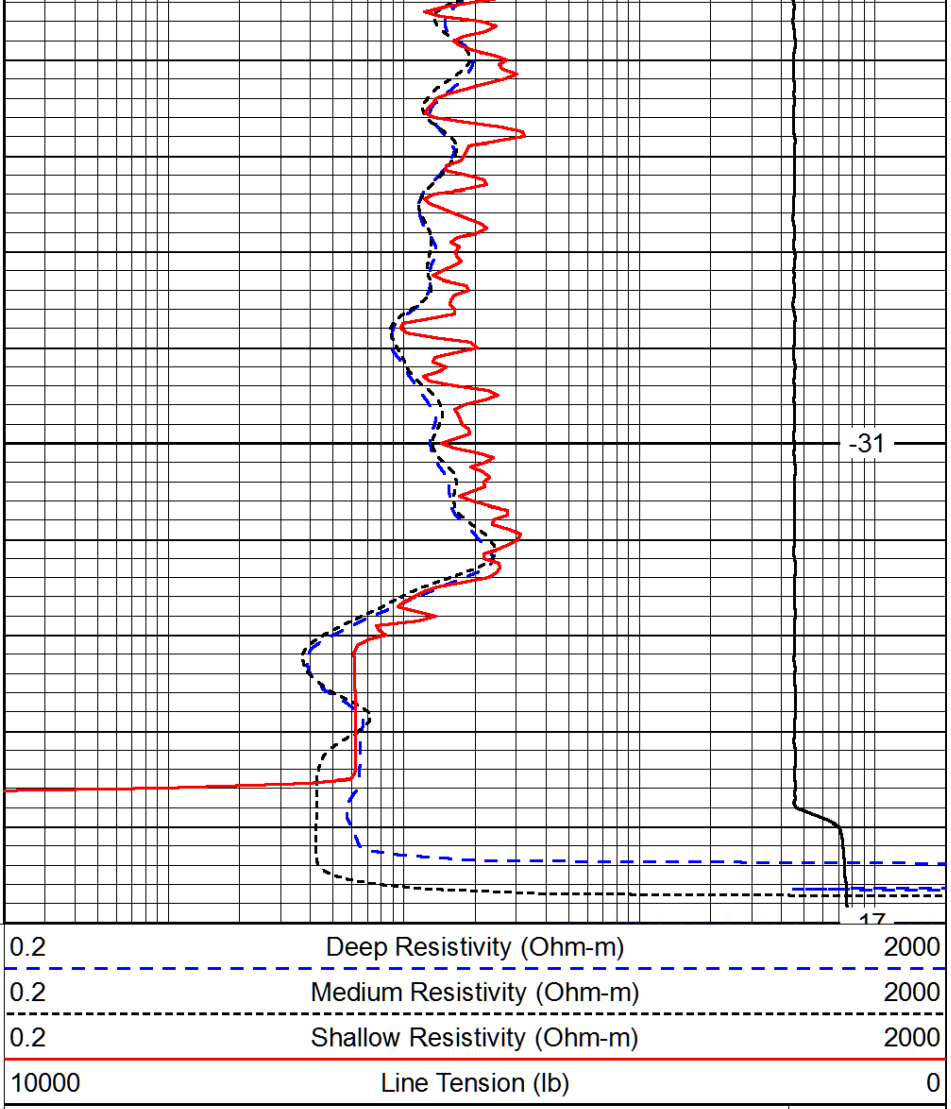
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3750

3800



-31

17

LSPD
(ft/min)