



Pioneer Energy Services

# Dual Induction Log

15-039-21,174-00-00

API No.

Company **Murfin Drilling Company, Inc.**

Well **DCFY Unit No. 1 - 11**

Field **Wildcat**

County **Decatur** State

**Kansas**

Location **2450' FNL & 2150' FEL**

Sec: **11** Twp: **2 S** Rge: **29 W**

Other Services  
CNL/CDL  
MEL/BHCS

Permanent Datum **Ground Level** Elevation **2714**

Log Measured From **Kelly Bushing** 5 Ft. Above Perm. Datum

Elevation  
K.B. 2719  
D.F. 2714  
G.L. 2714

Date	5/13/2013	
Run Number	One	
Depth Driller	4025	
Depth Logger	4022	
Bottom Logged Interval	4021	
Top Log Interval	0	
Casing Driller	8.625 @ 218	
Casing Logger	217	
Bit Size	7.875	
Type Fluid in Hole	Chemical	
Salinity, ppm CL	1800	
Density / Viscosity	9.2   51	
pH / Fluid Loss	10.5   6.0	
Source of Sample	Flowline	
Rm @ Meas. Temp	.60 @ 70	
Rmf @ Meas. Temp	.45 @ 70	
Rmc @ Meas. Temp	.81 @ 70	
Source of Rmf / Rmc	Charts	
Rm @ BHT	.36 @ 116	
Operating Rig Time	5 Hours	
Max Rec. Temp. F	116	
Equipment Number	108	
Location	Hays	
Recorded By	D. Martin	
Witnessed By	Tom Funk	

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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

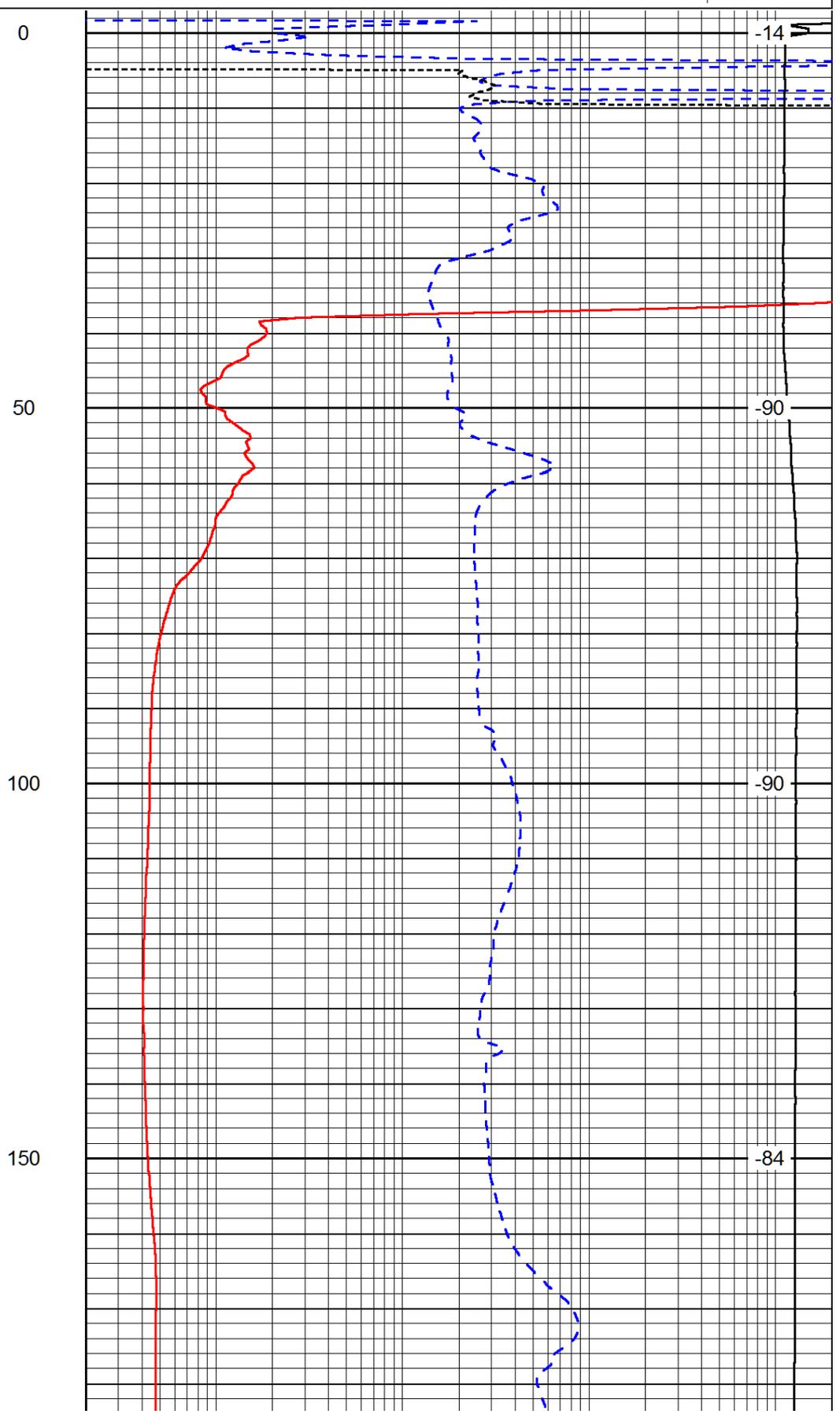
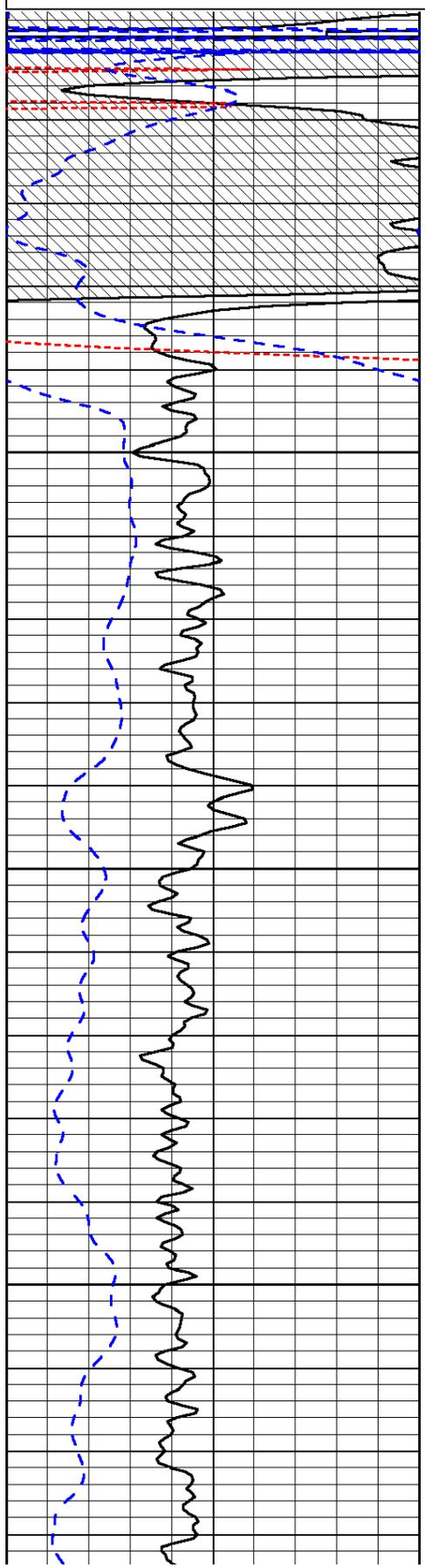
Oberlin, KS  
4 N to 4N Rd., 1/2 W, N Into

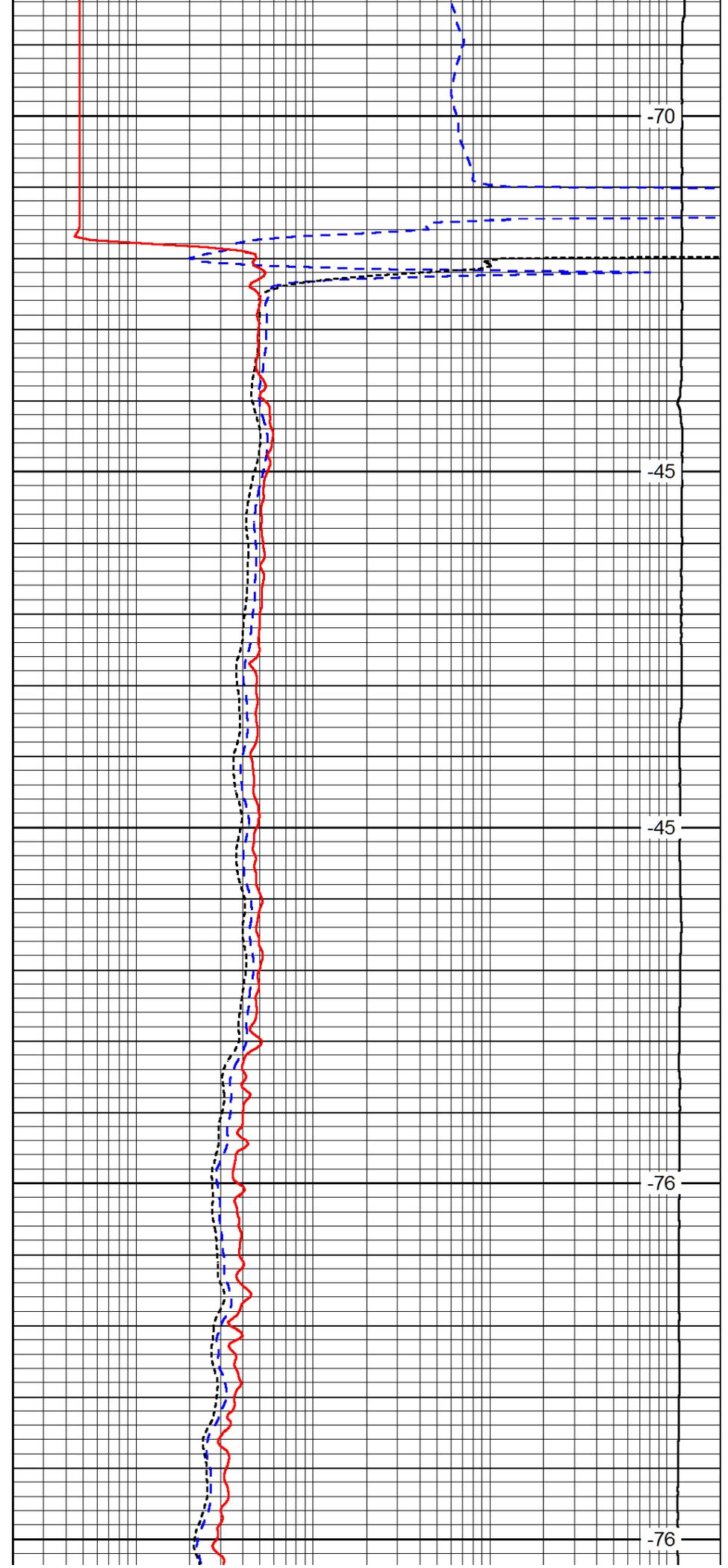
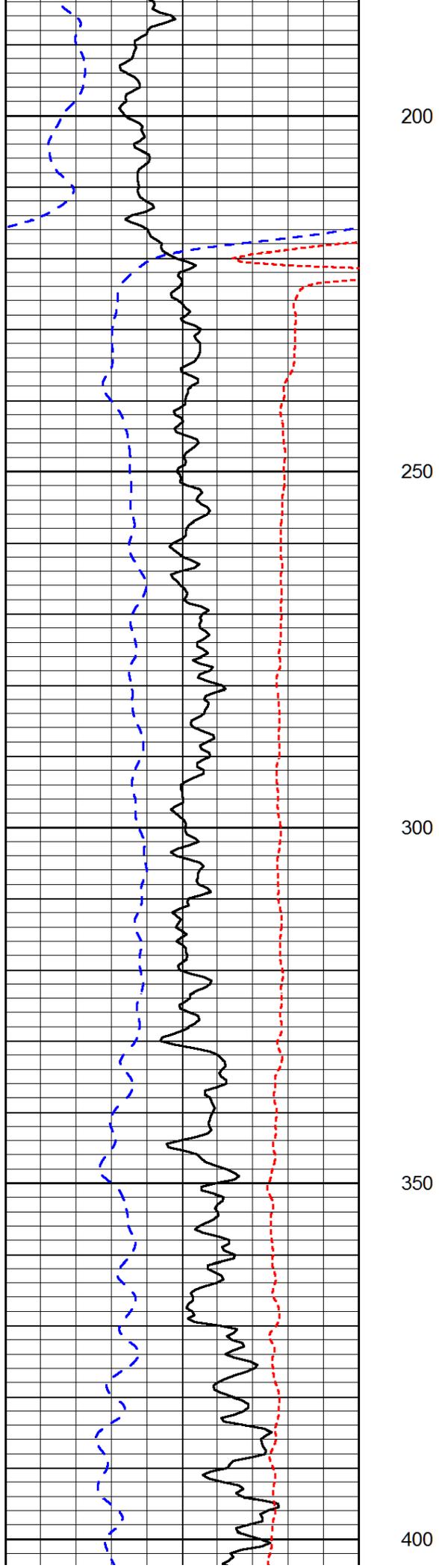
Database File: murfin\_dcfyunit\_1-11hd.db  
 Dataset Pathname: dil/murfstk  
 Presentation Format: dil  
 Dataset Creation: Mon May 13 03:01:11 2013  
 Charted by: Depth in Feet scaled 1:240

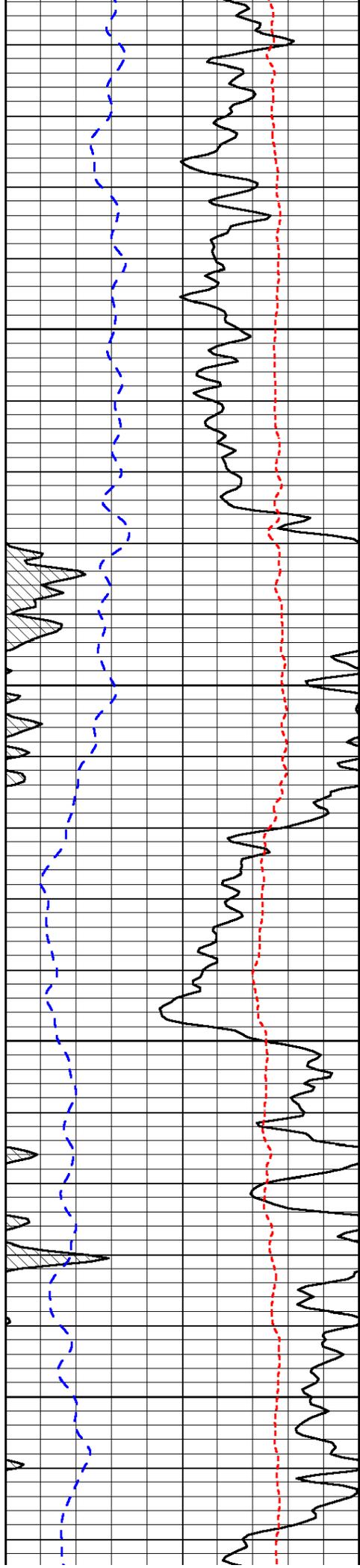
0	Gamma Ray (GAPI)	150
-160	RXO/RT	40
-200	SP (mV)	0

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)





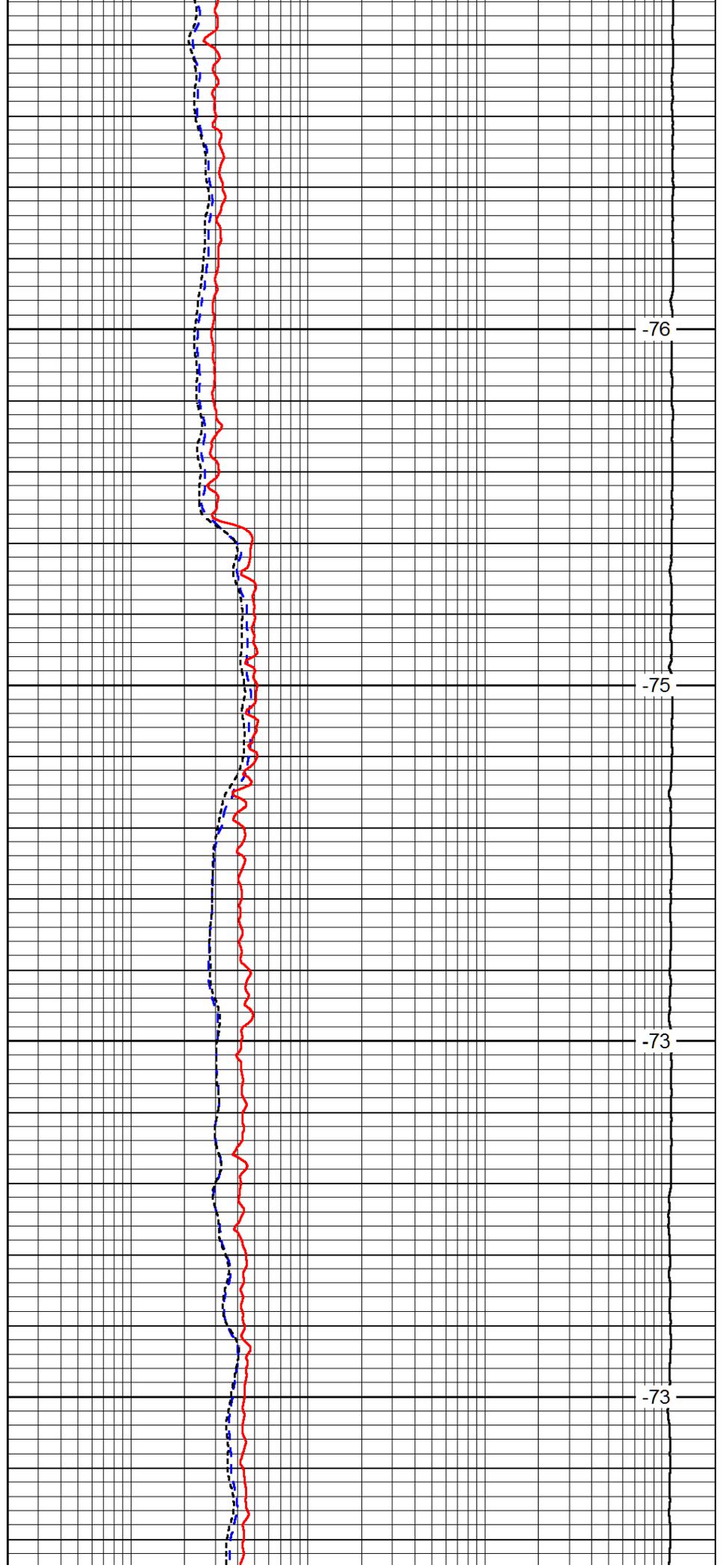


450

500

550

600

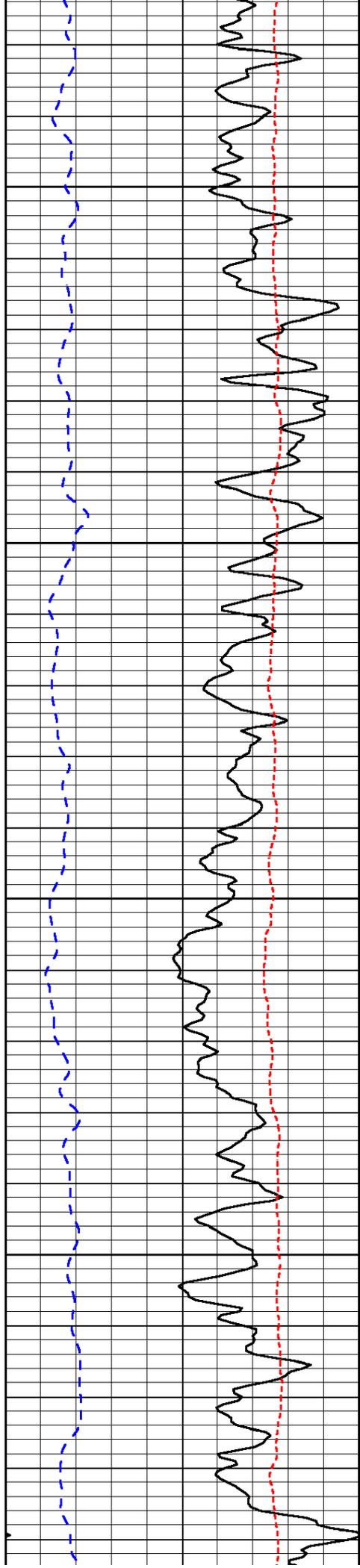


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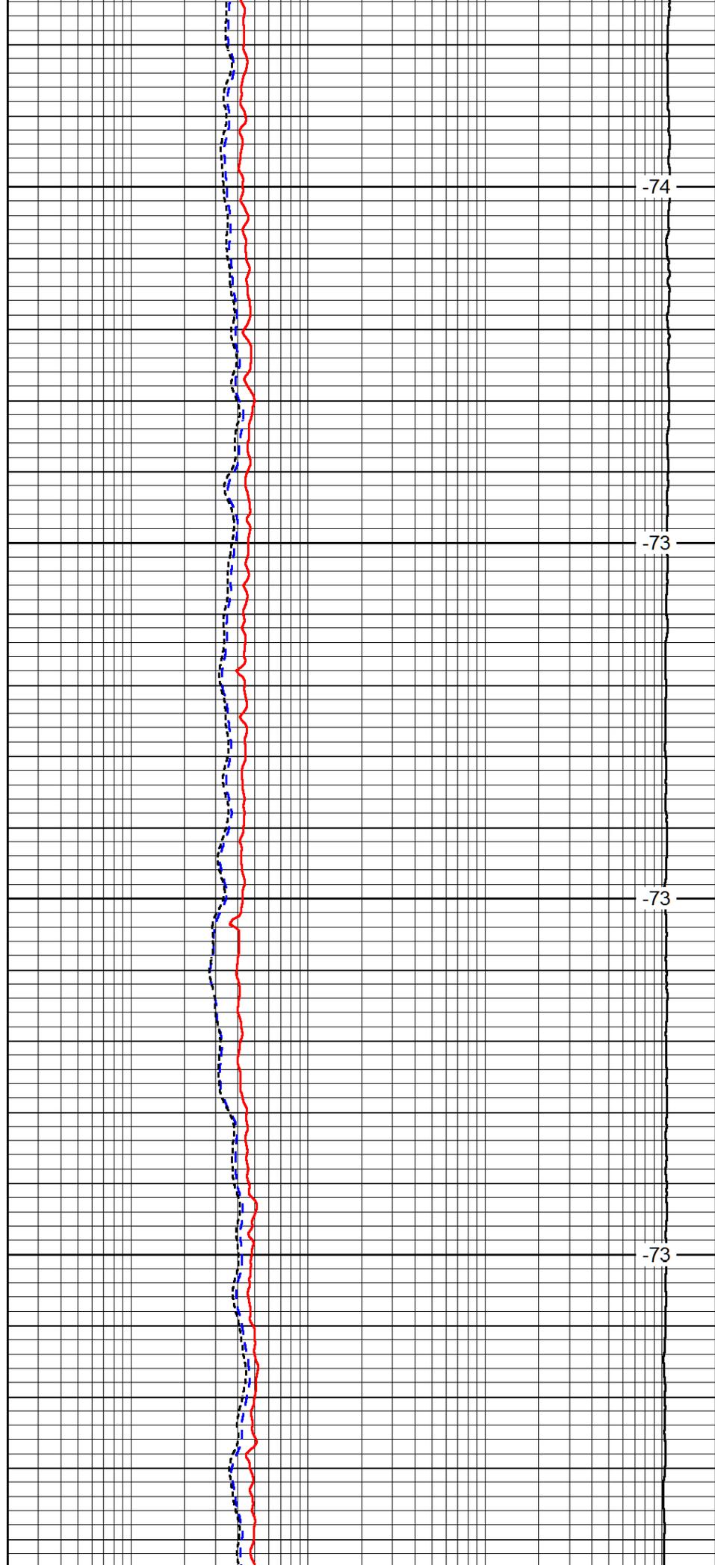


650

700

750

800

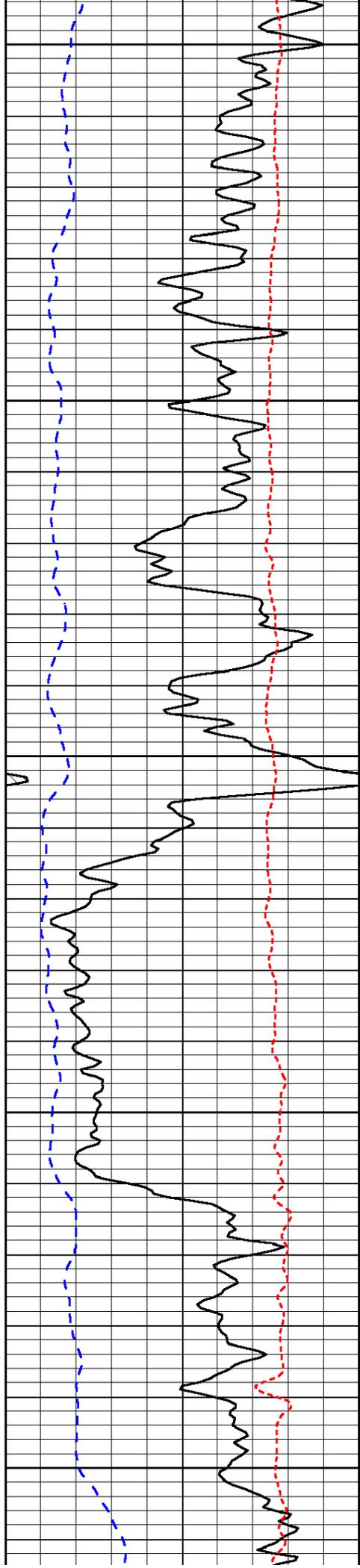


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850

900

950

1000

1050

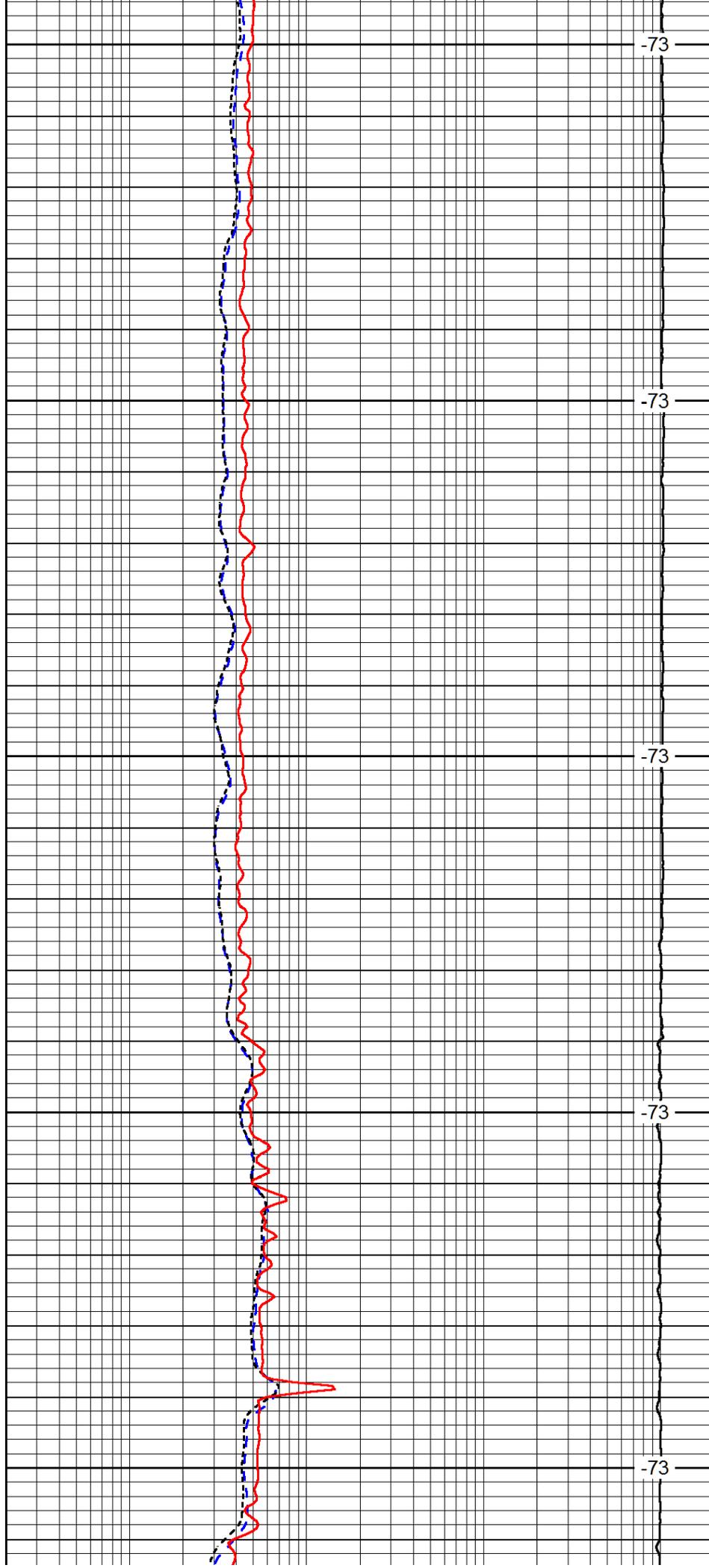
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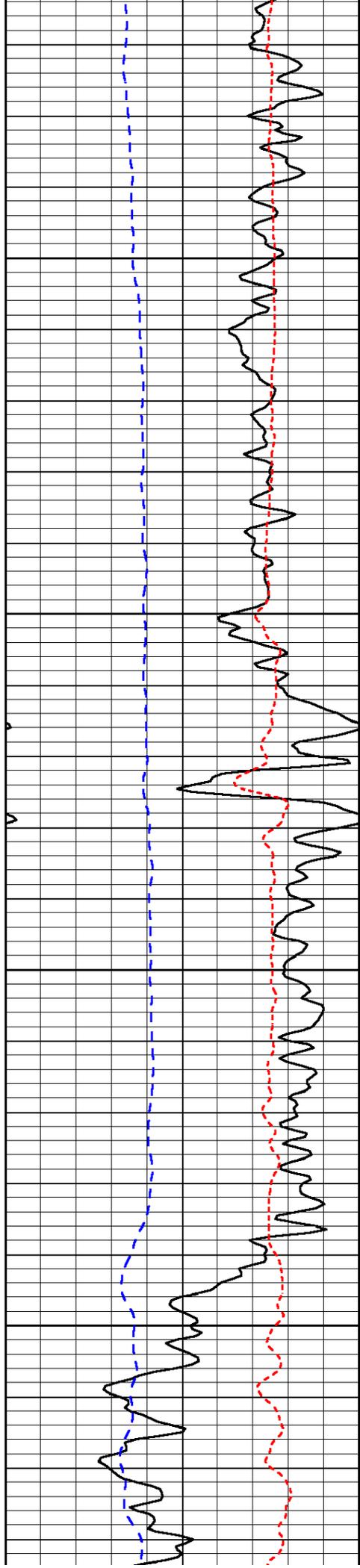
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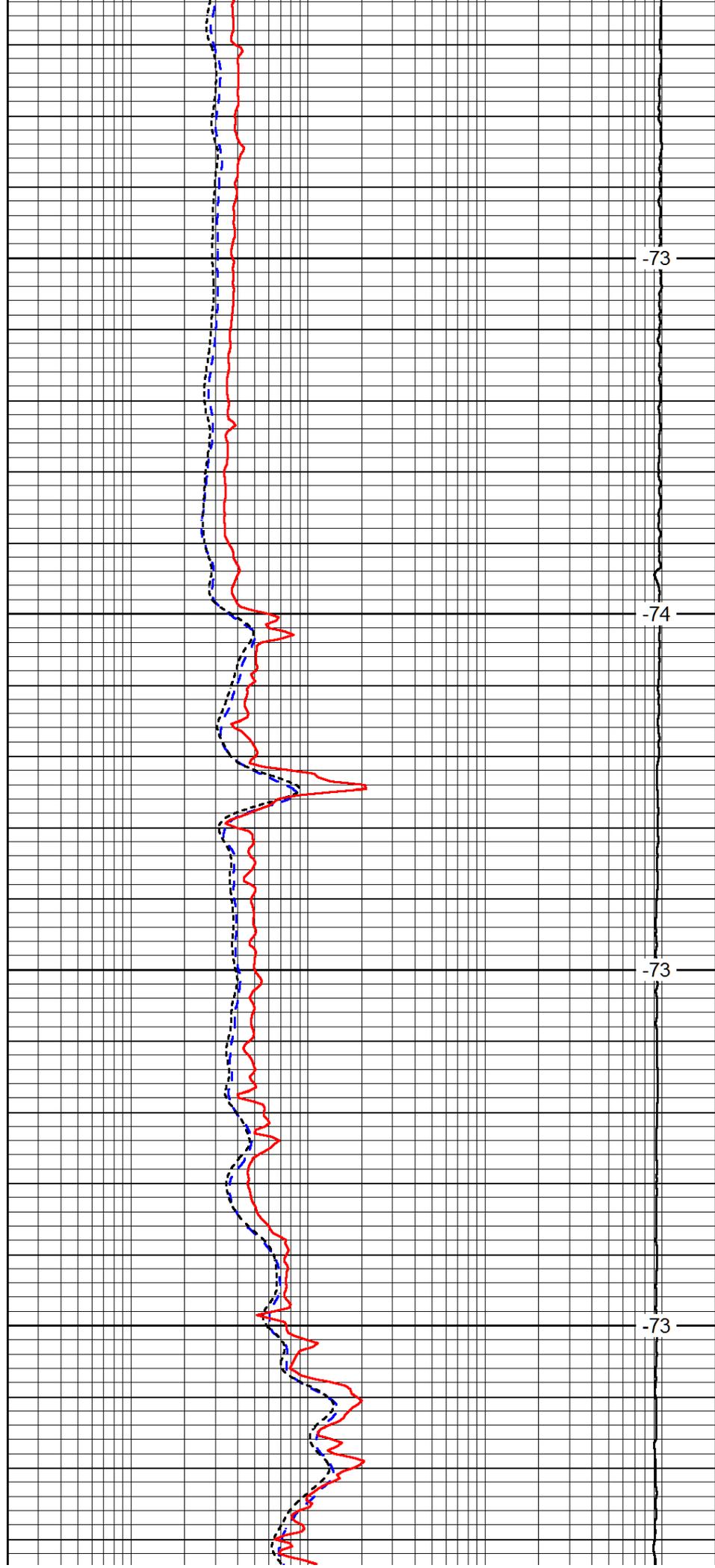


1100

1150

1200

1250

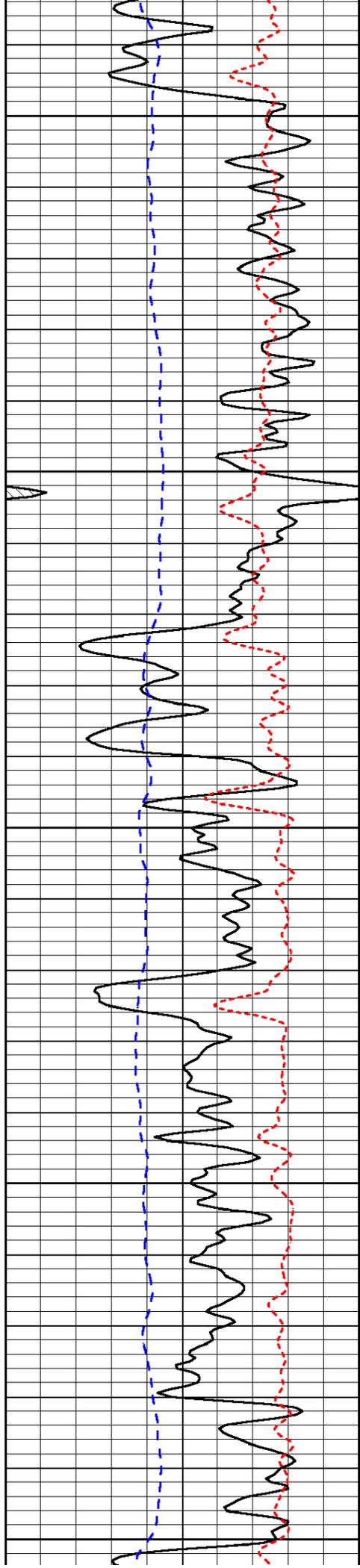


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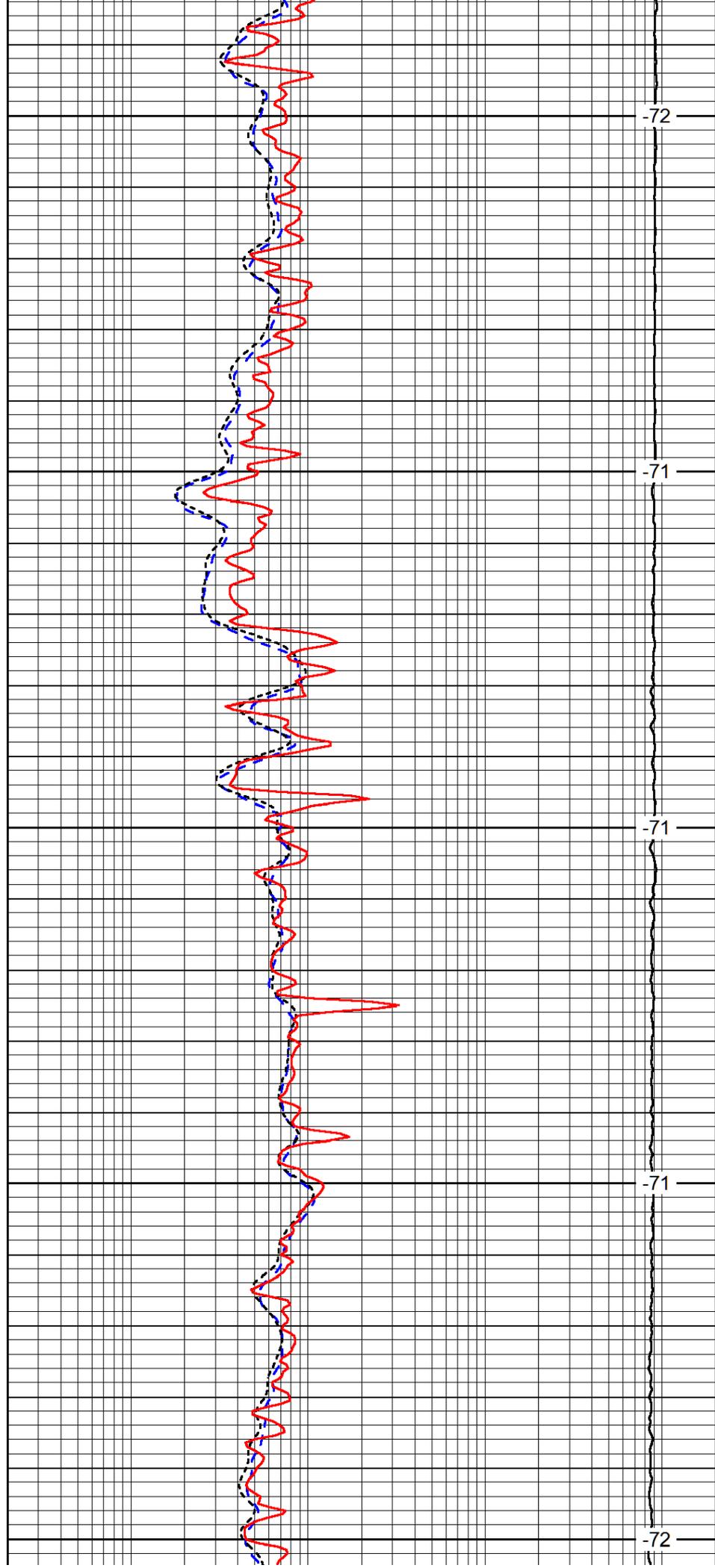
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1350

1400

1450

1500



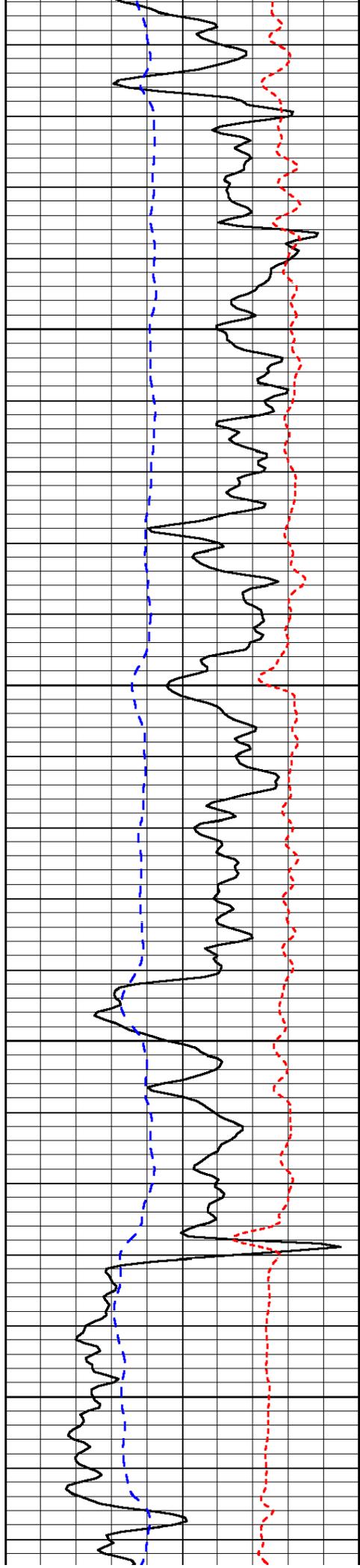
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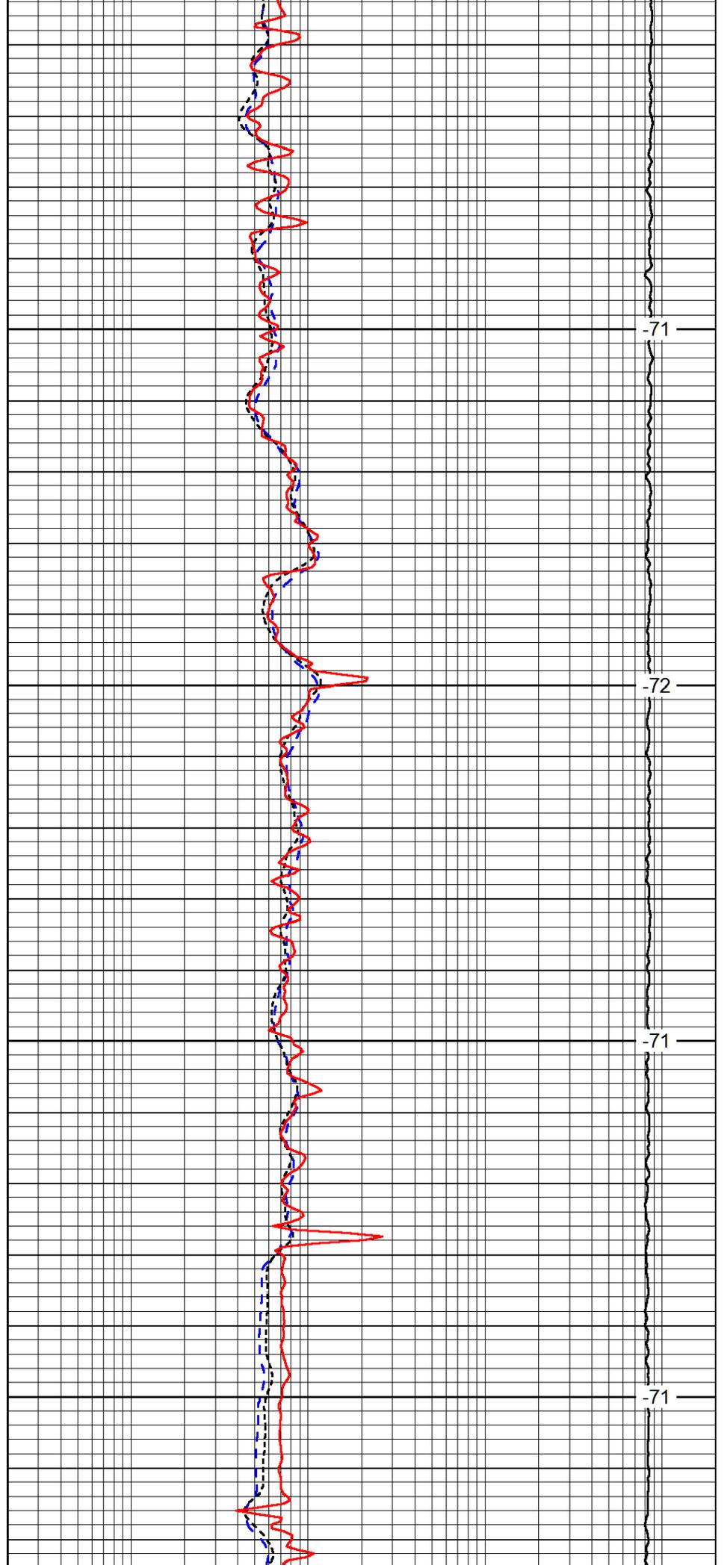


1550

1600

1650

1700

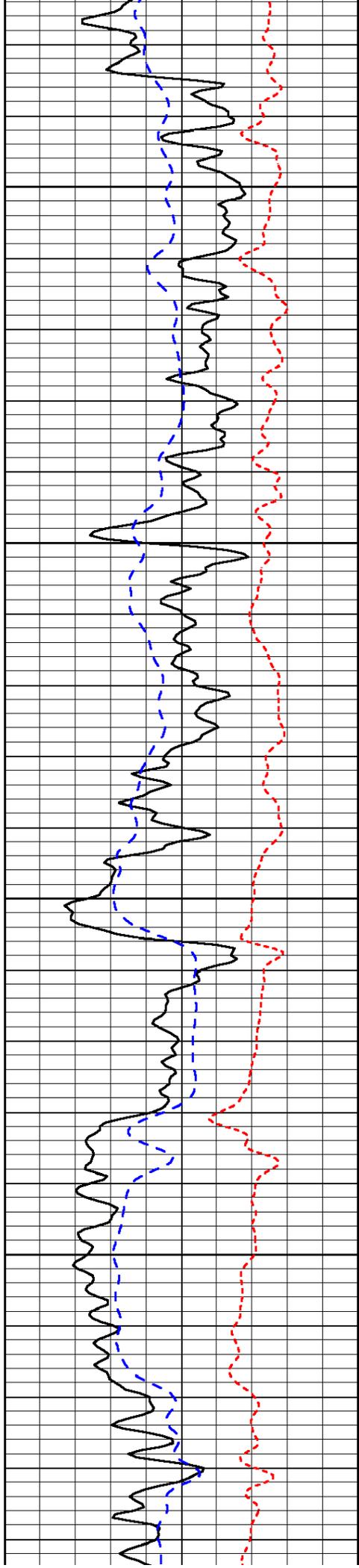


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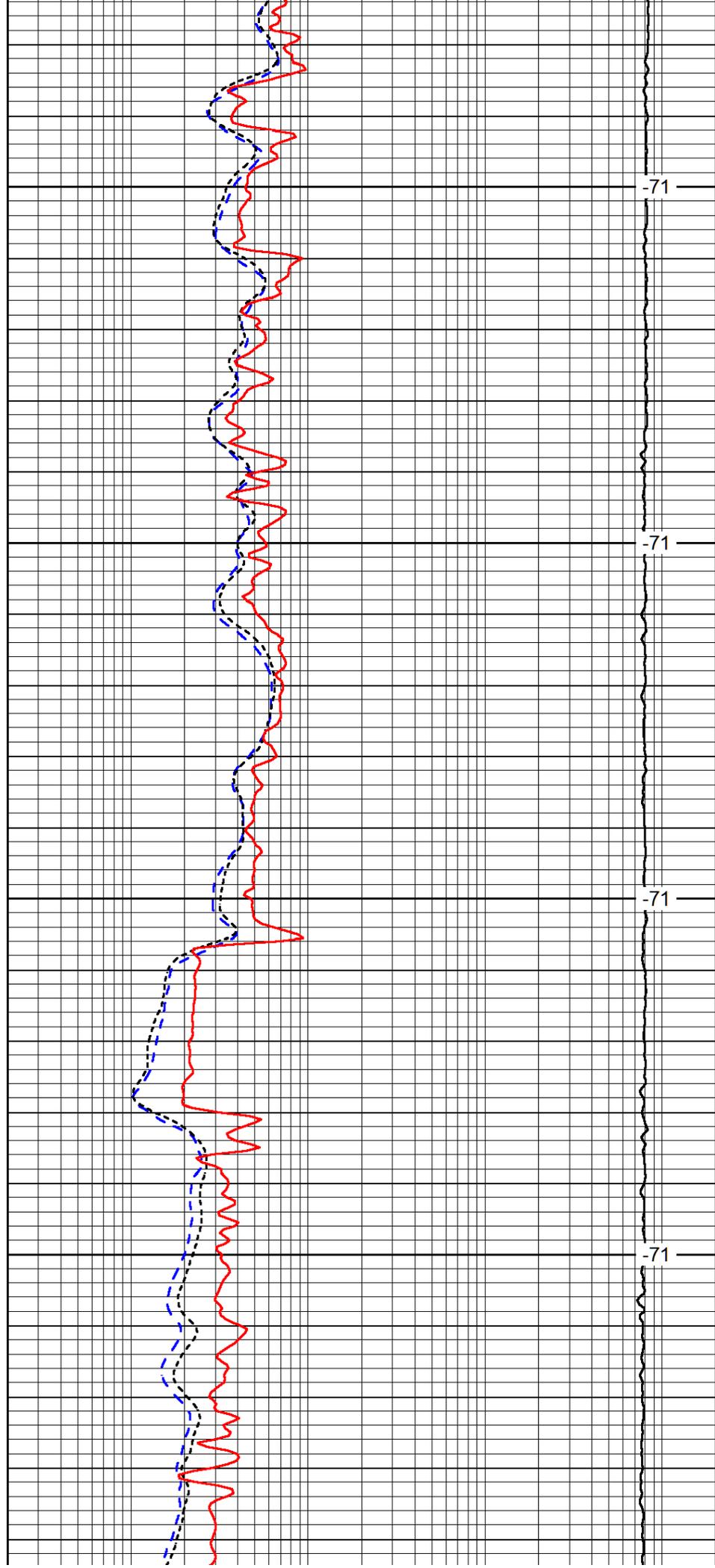


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1850

1900

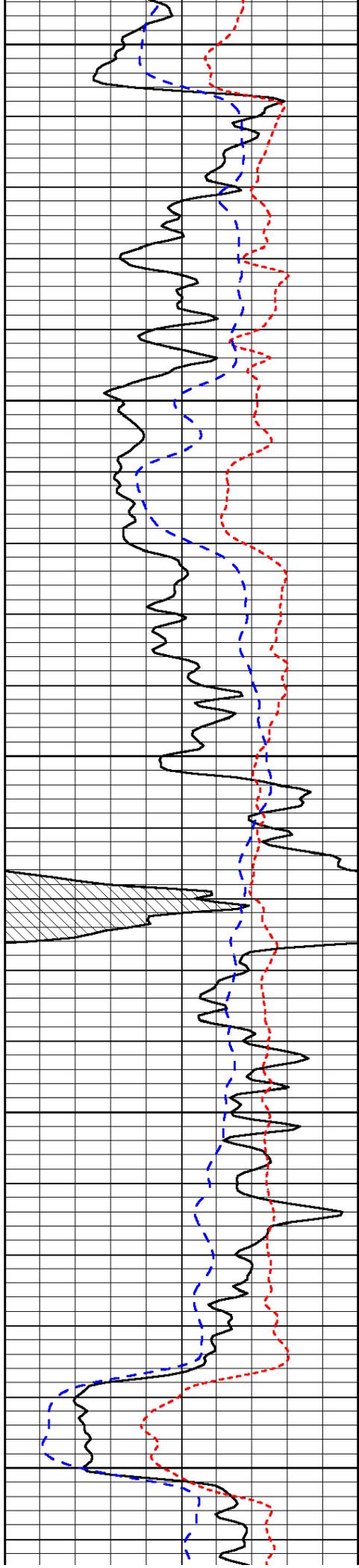


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1950

2000

2050

2100

2150

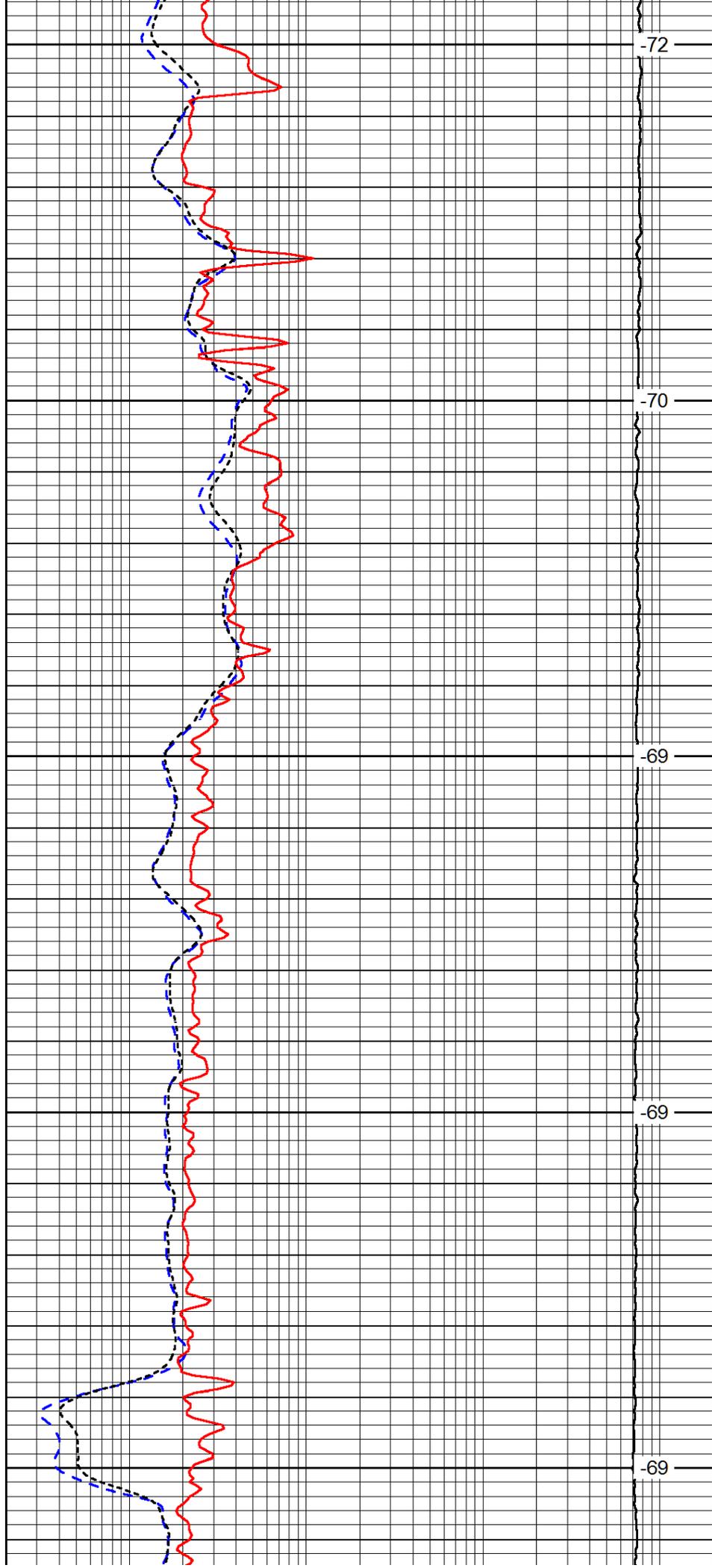
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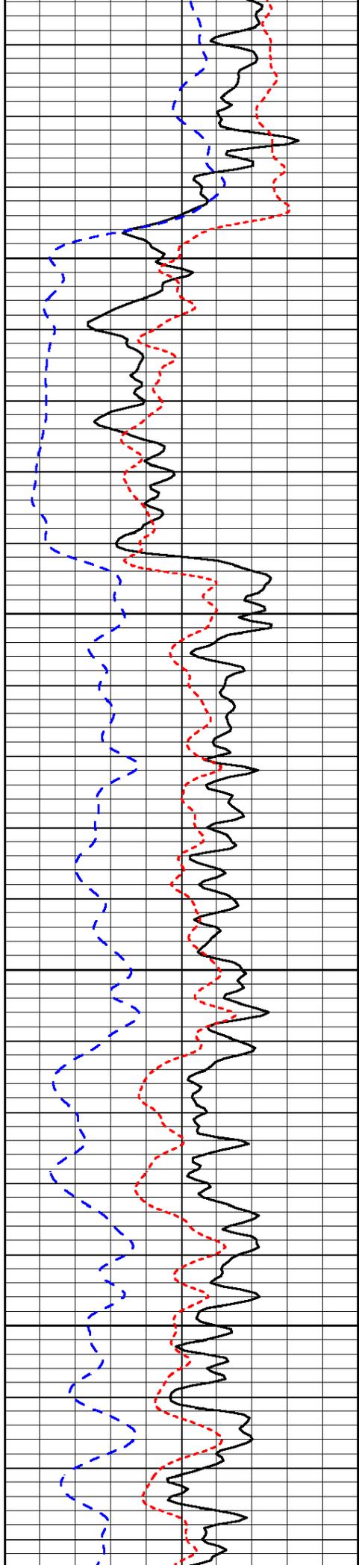
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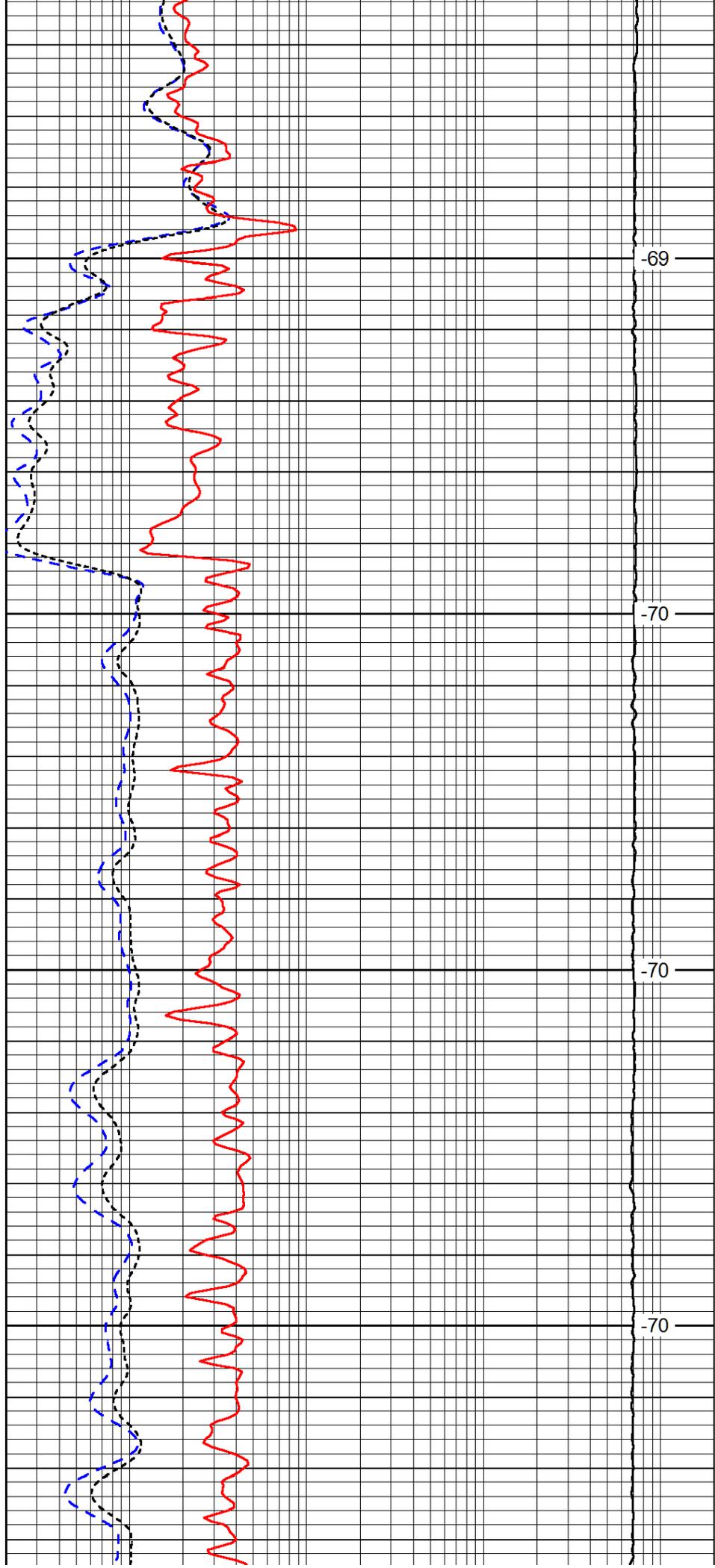


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2250

2300

2350

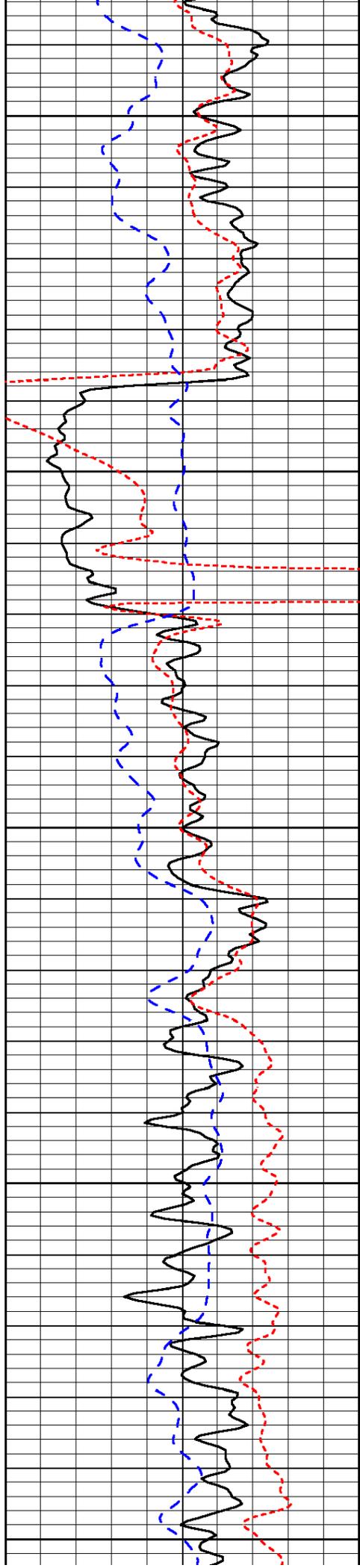


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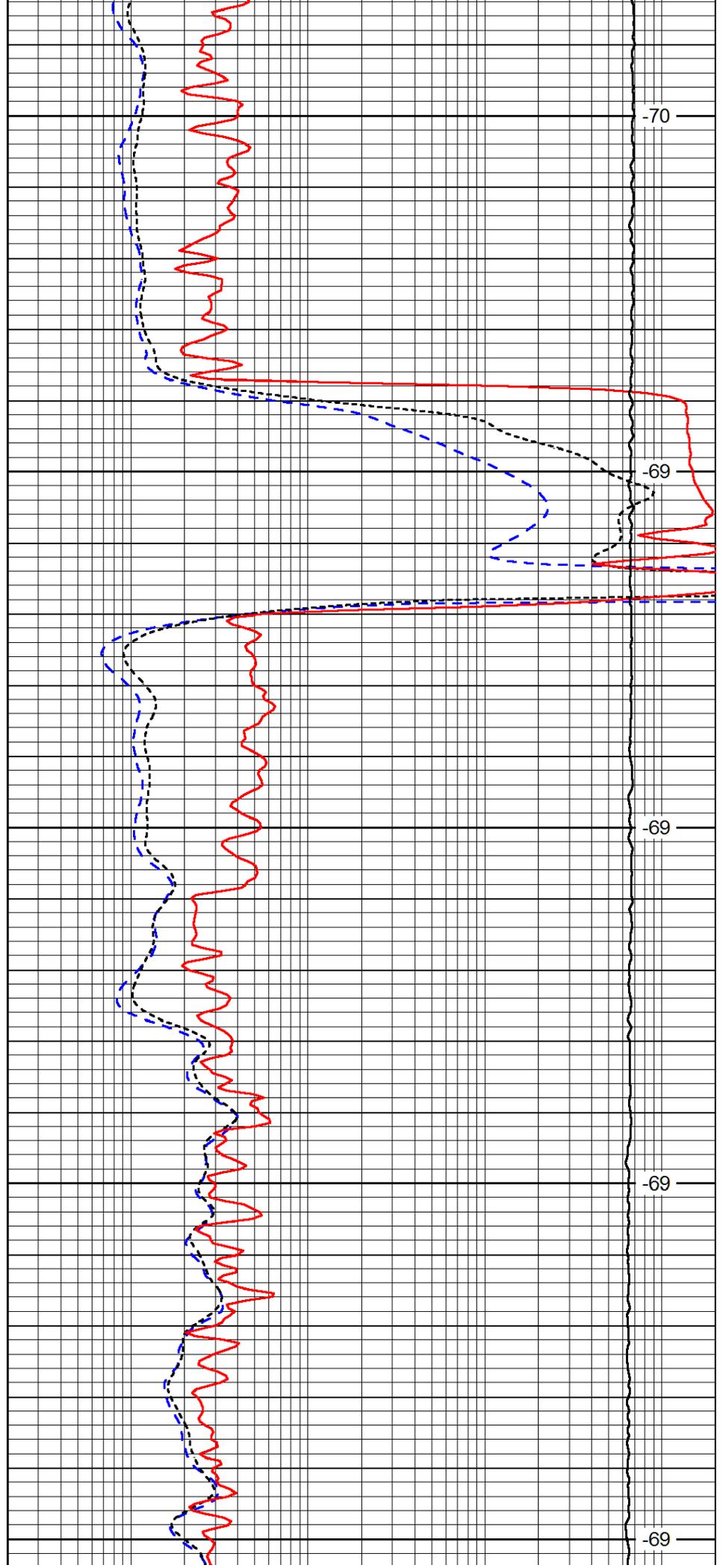
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2450

2500

2550

2600



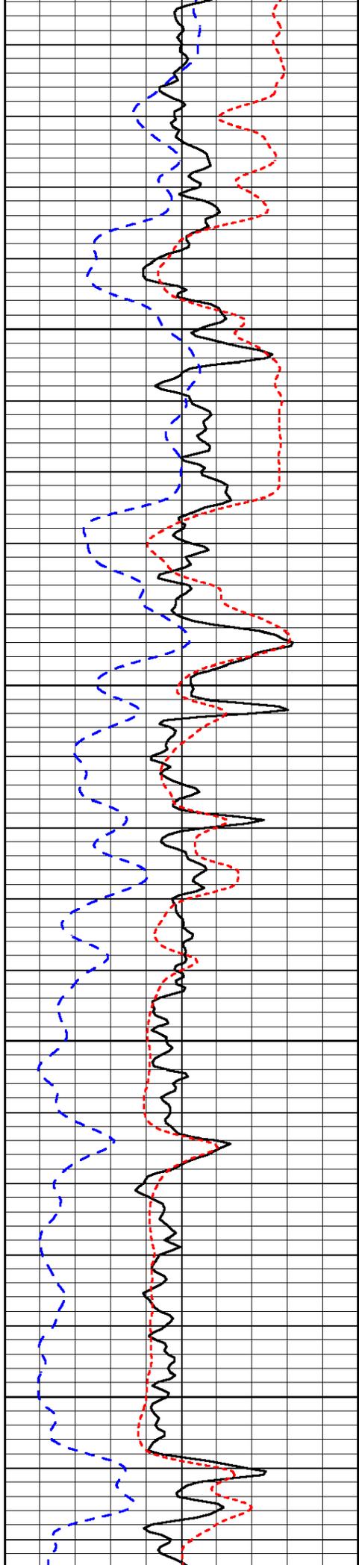
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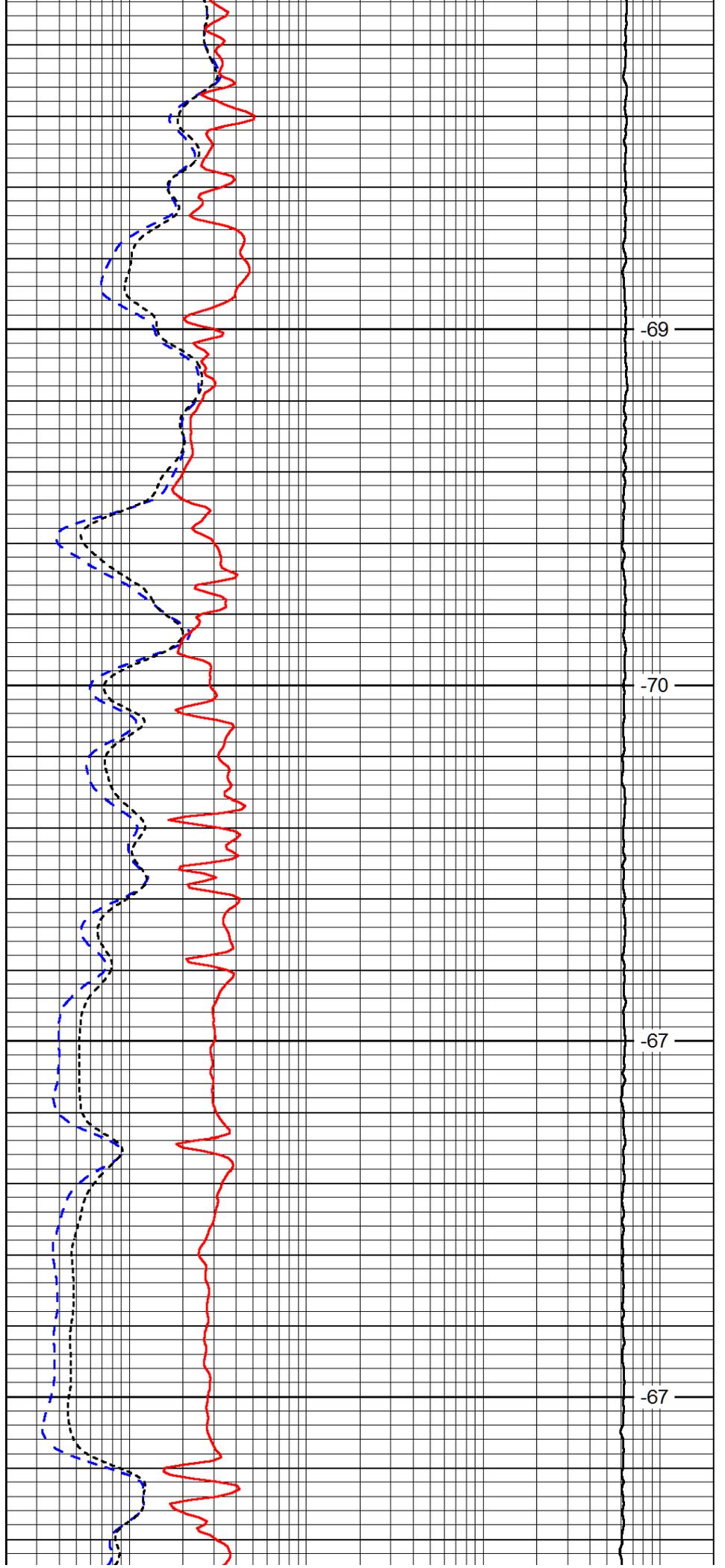


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2700

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2800

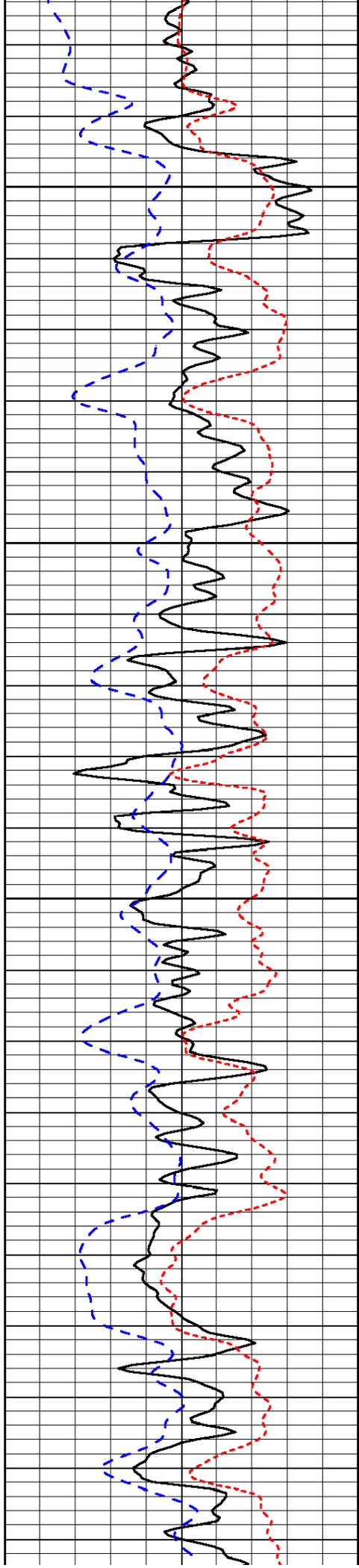


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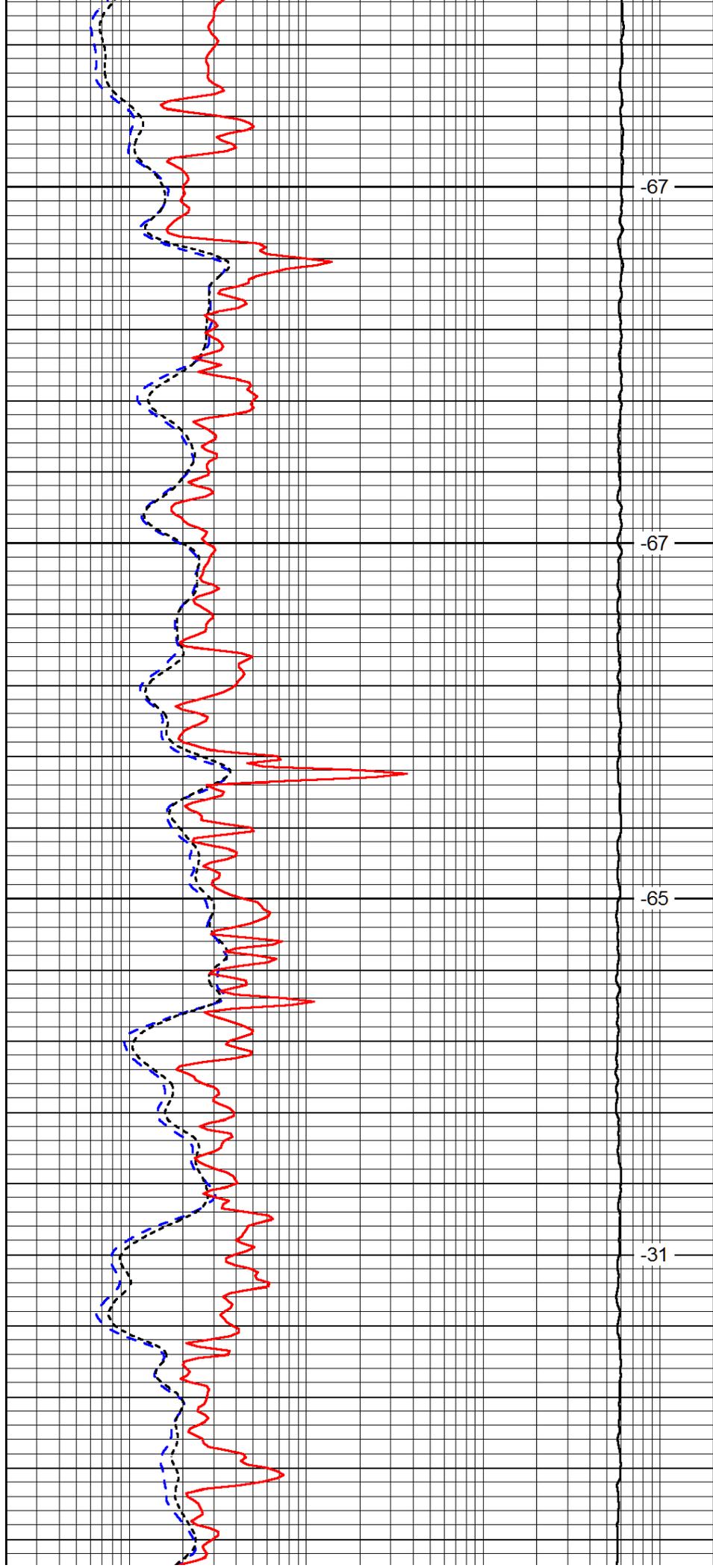


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2900

2950

3000

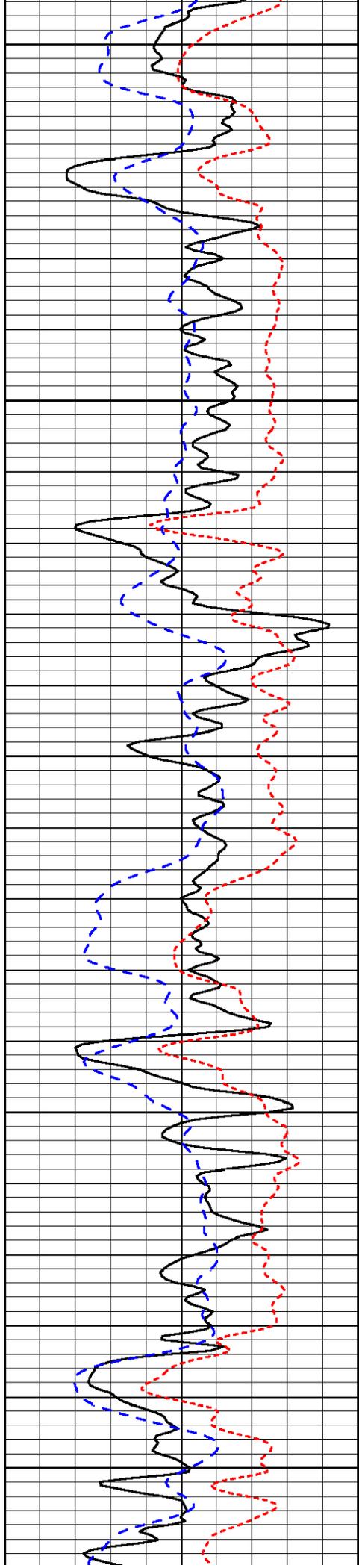


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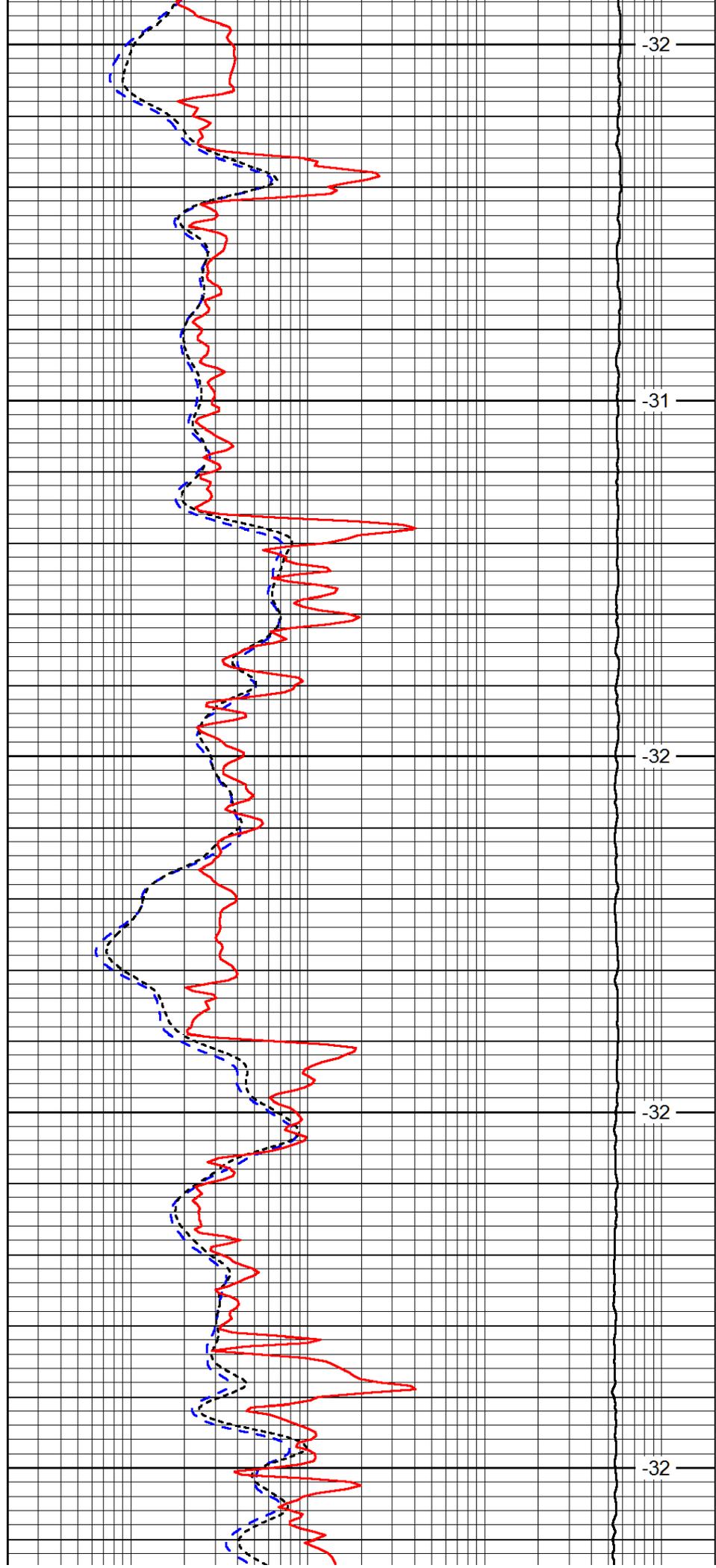
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3150

3200

3250



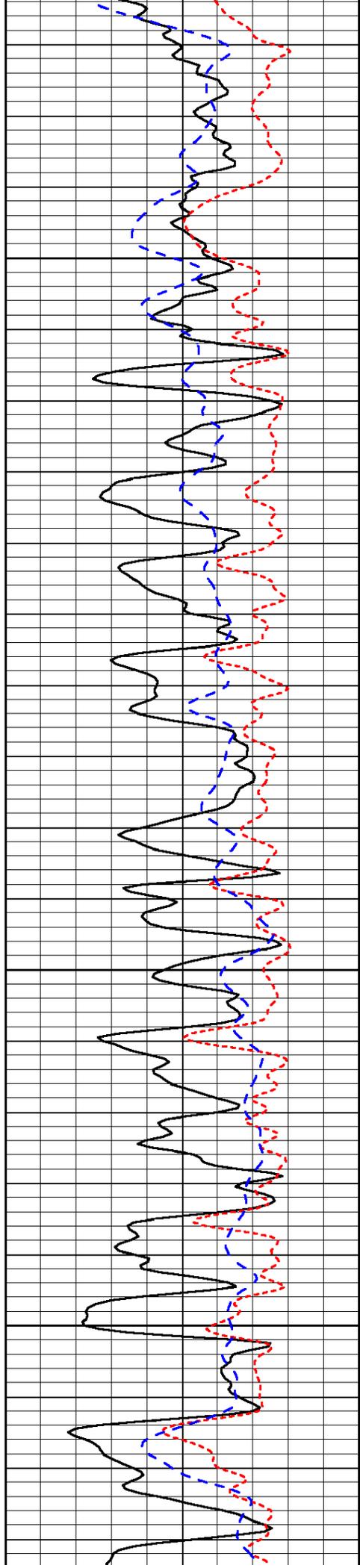
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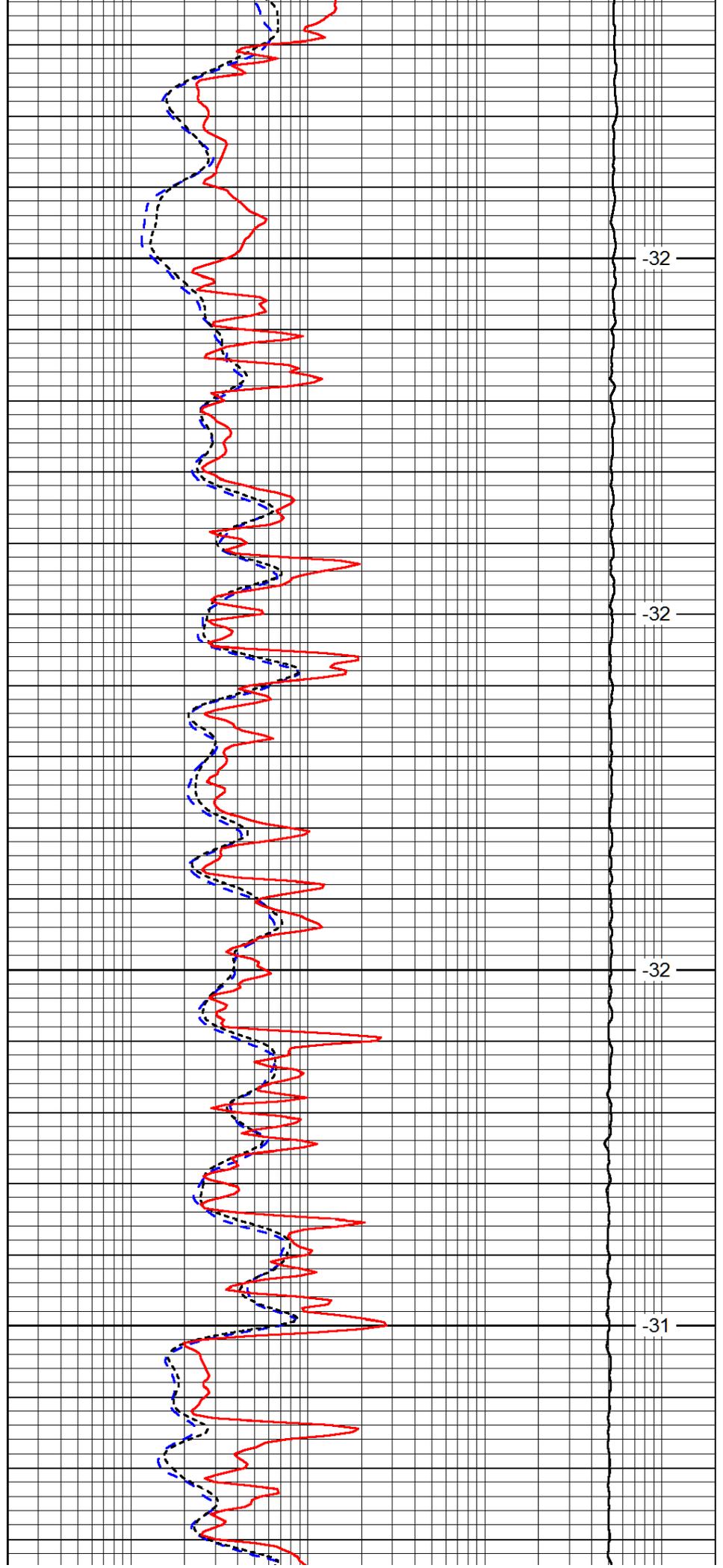


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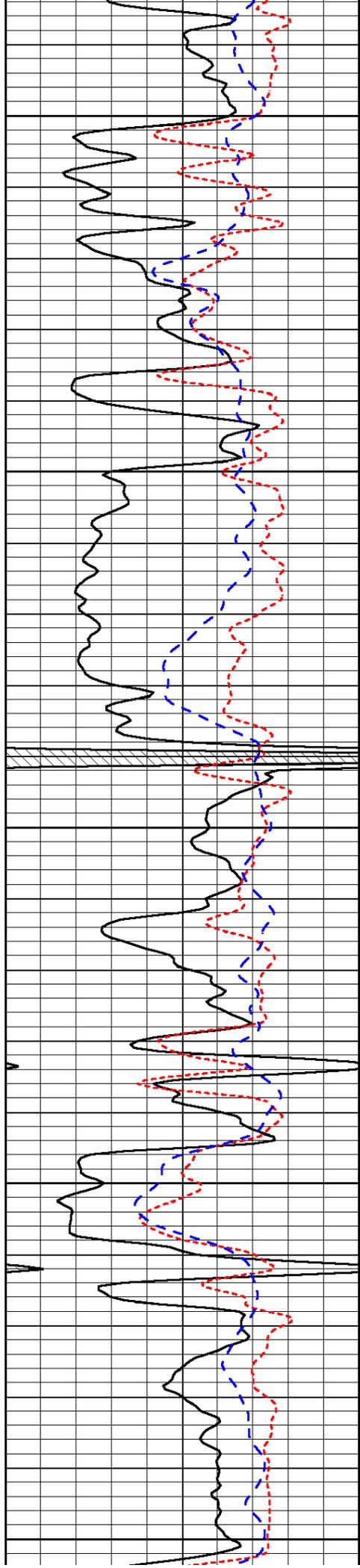


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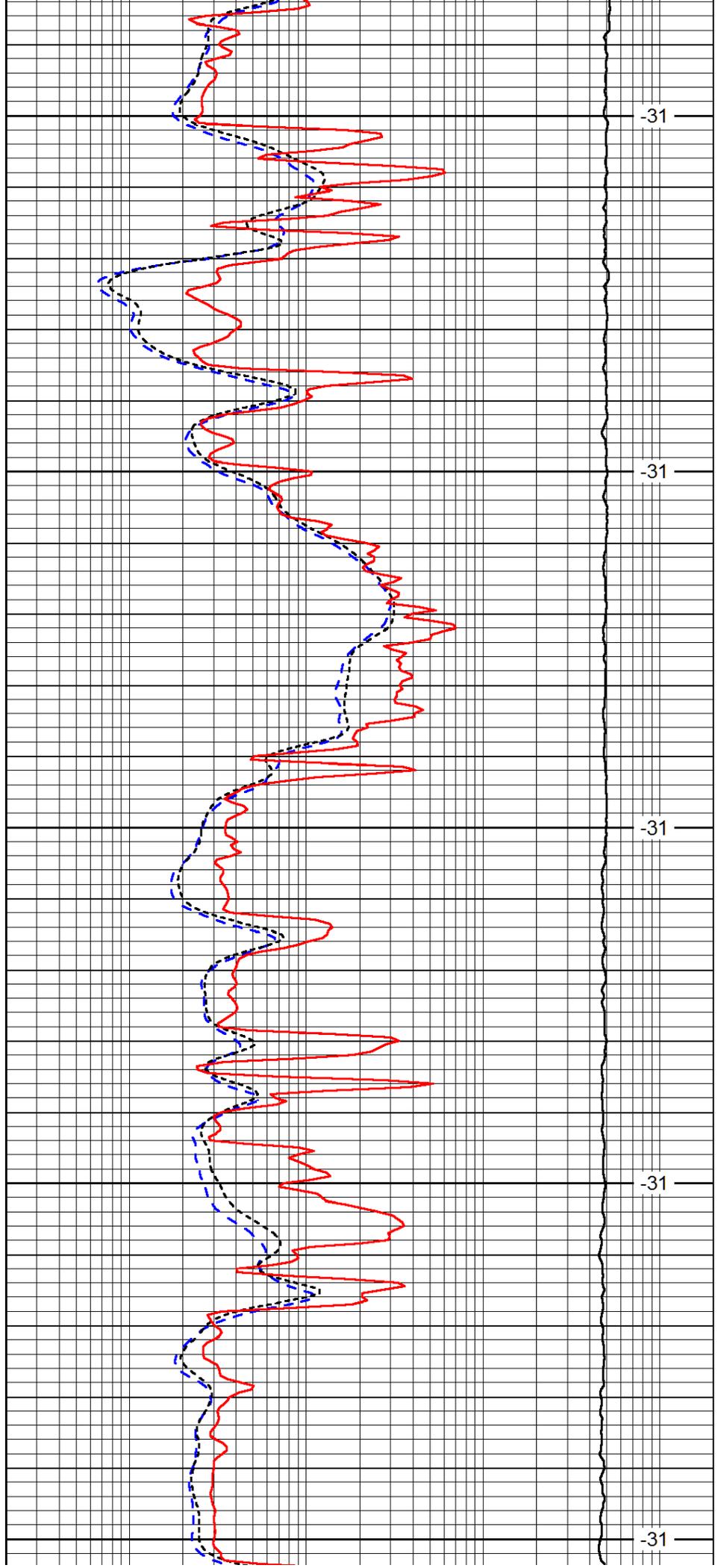
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3600

3650

3700



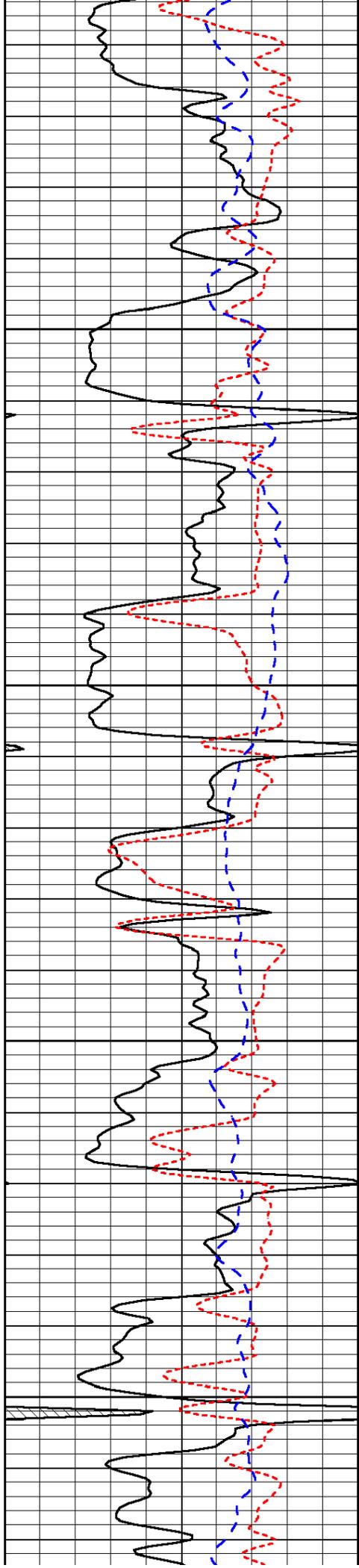
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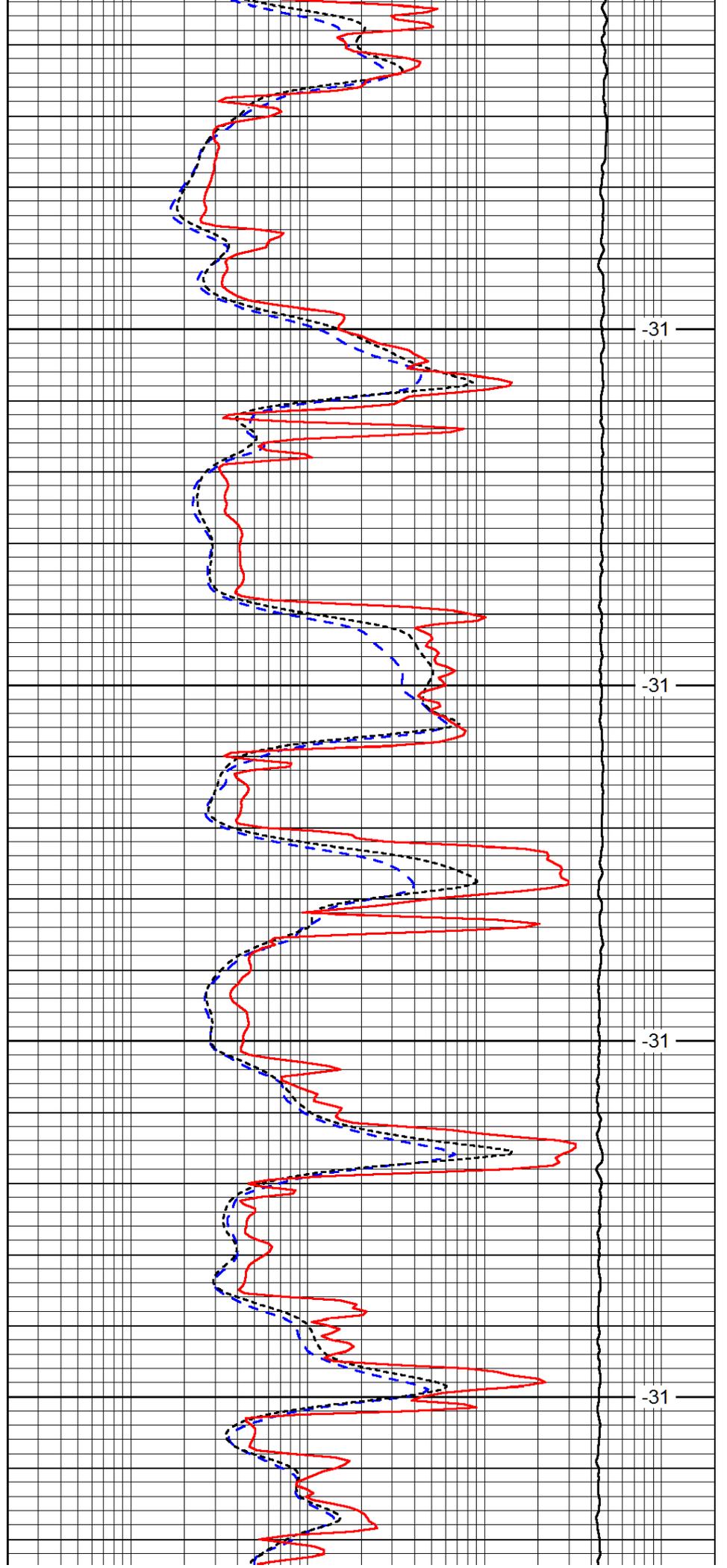


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3800

3850

3900

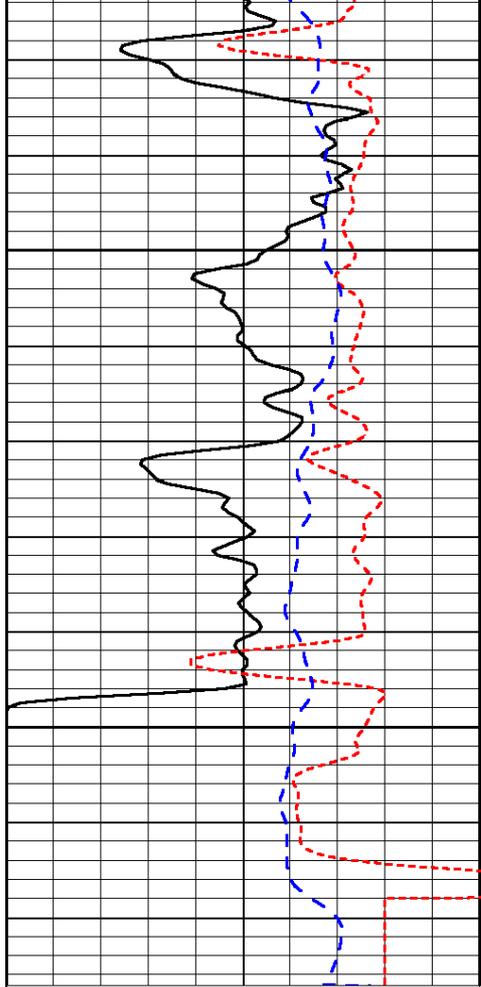


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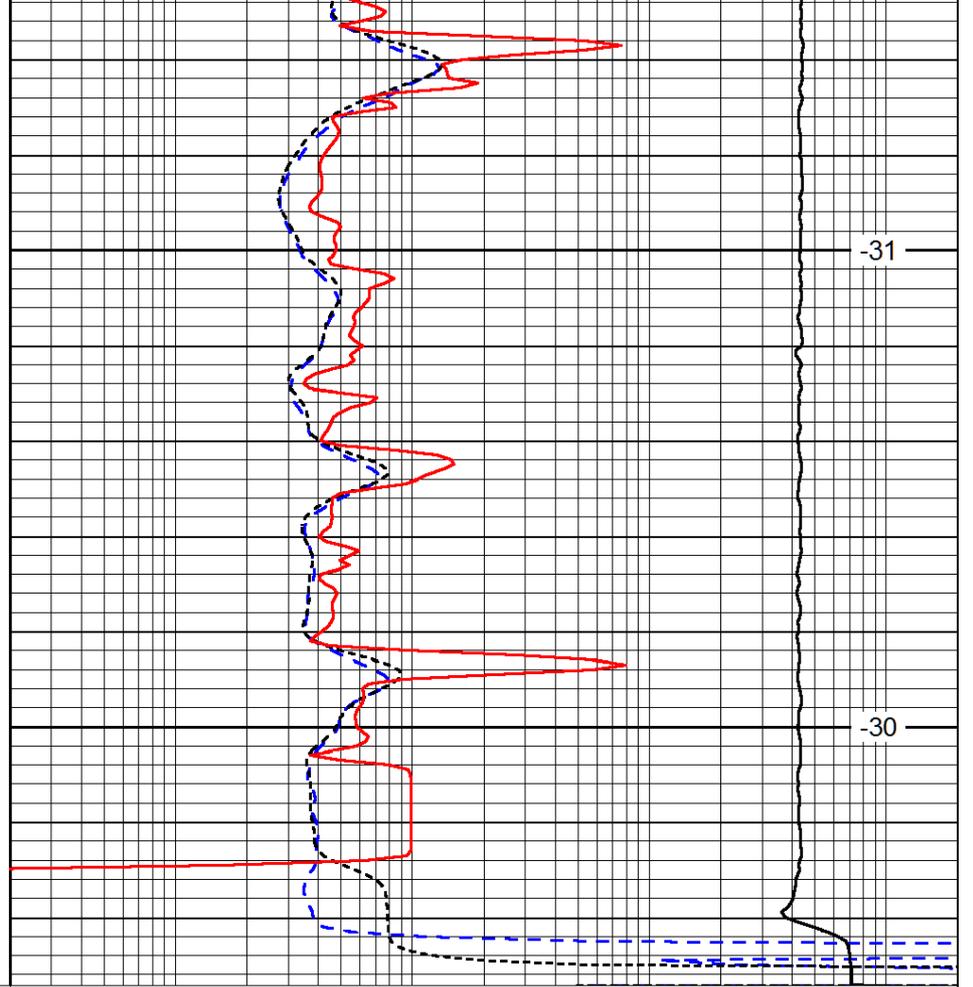
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3950

4000

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-31

-30

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