



Pioneer Energy Services

# Dual Induction Log

**Company** Murfin Drilling Company, Inc.  
**Well** Kacirek Trust #1-5  
**Field** Wildcat  
**County** Rawlins **State** Kansas  
**Location** 2170' FNL & 330' FWL  
**Sec:** 5 **Twp:** 2S **Rge:** 36W  
**Other Services**  
 CNL/CDL  
 MEL/BHCS

**API No.** 15-153-20974-00-00  
**Permanent Datum** Ground Level **Elevation** 3247  
**Log Measured From** Kelly Bushing **5 Ft. Above Perm. Datum**  
**Drilling Measured From** Kelly Bushing

Date	1/18/2014		
Run Number	One		
Depth Driller	4945		
Depth Logger	4935		
Bottom Logged Interval	4934		
Top Log Interval	0		
Casing Driller	8.625 @ 254		
Casing Logger	256		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	1000		
Density / Viscosity	9.3   77		
pH / Fluid Loss	10.0   7.8		
Source of Sample	Flowline		
Rm @ Meas. Temp	0.95 @ 38		
Rmf @ Meas. Temp	0.71 @ 38		
Rmc @ Meas. Temp	1.28 @ 38		
Source of Rmf / Rmc	Charts		
Rm @ BHT	0.28 @ 127		
Operating Rig Time	5 Hours		
Max Rec. Temp. F	127		
Equipment Number	91		
Location	Hays		
Recorded By	D. Schmidt		
Witnessed By	Charles Schmitz		

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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**

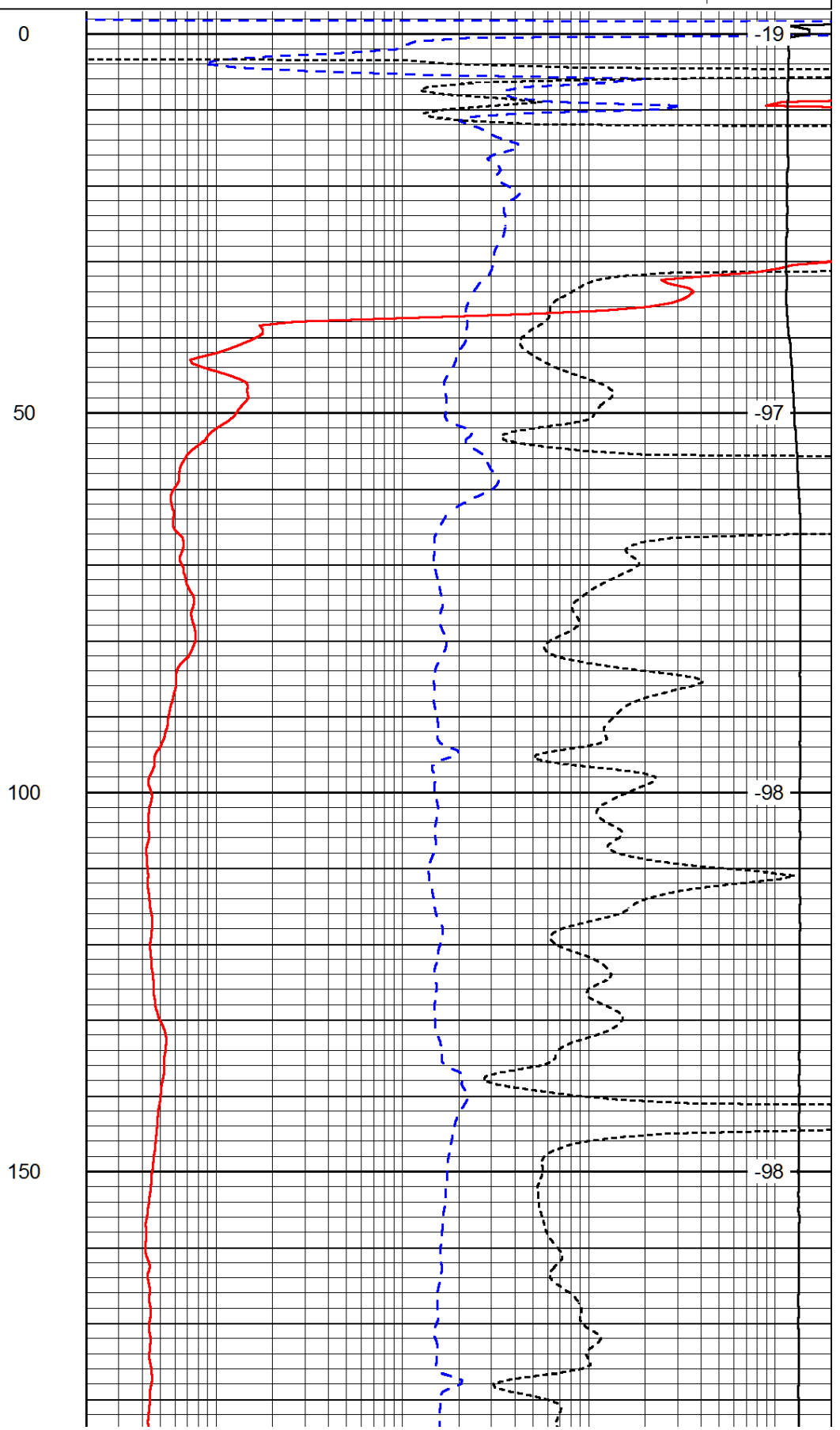
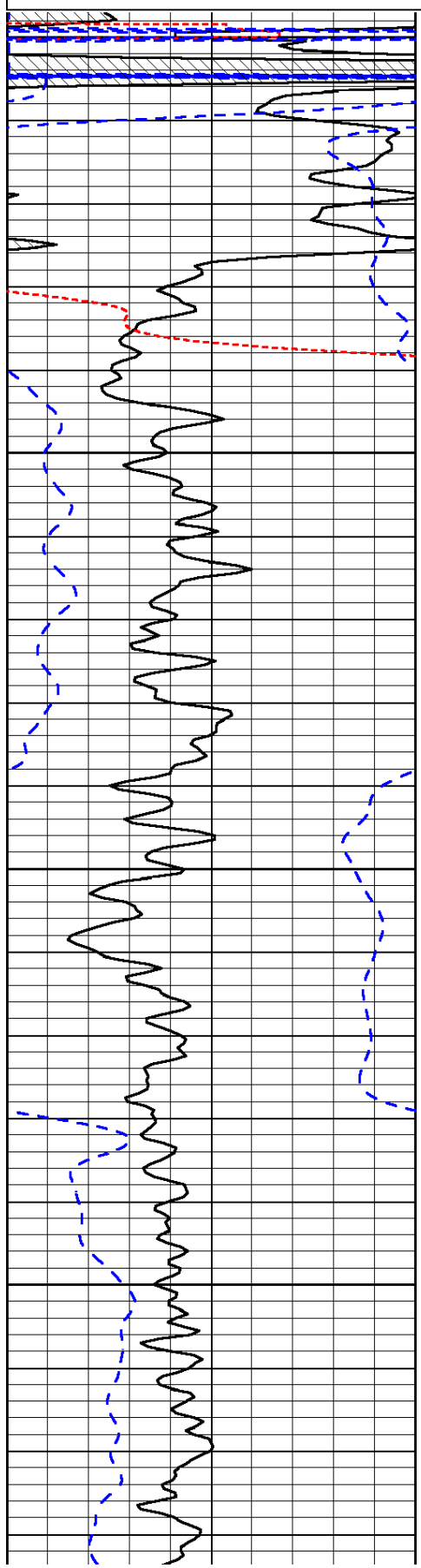
Thank you for using Log-Tech, Inc.  
 (785) 625-3858  
  
 McDonald,  
 8 1/4 North, 1/2 West, 1/4 North,  
 West & North to location

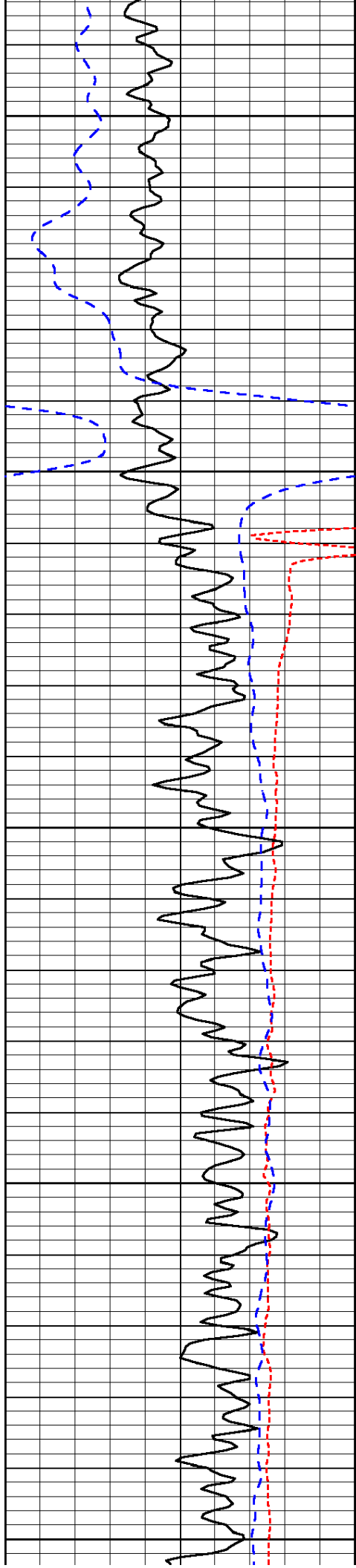
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 Dataset Pathname: dil/mrfstck  
 Presentation Format: dil  
 Dataset Creation: Sat Jan 18 18:20:11 2014  
 Charted by: Depth in Feet scaled 1:240

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)





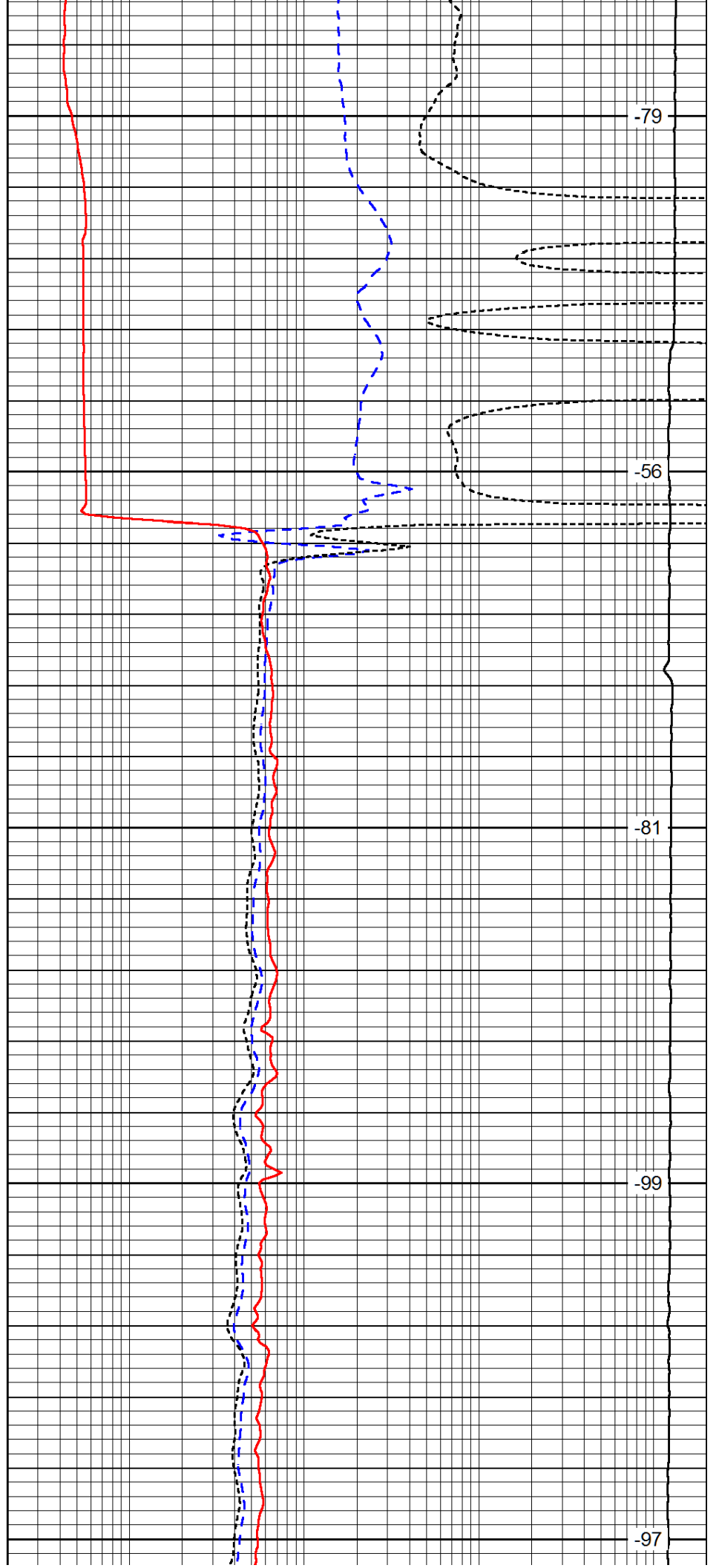
200

250

300

350

400



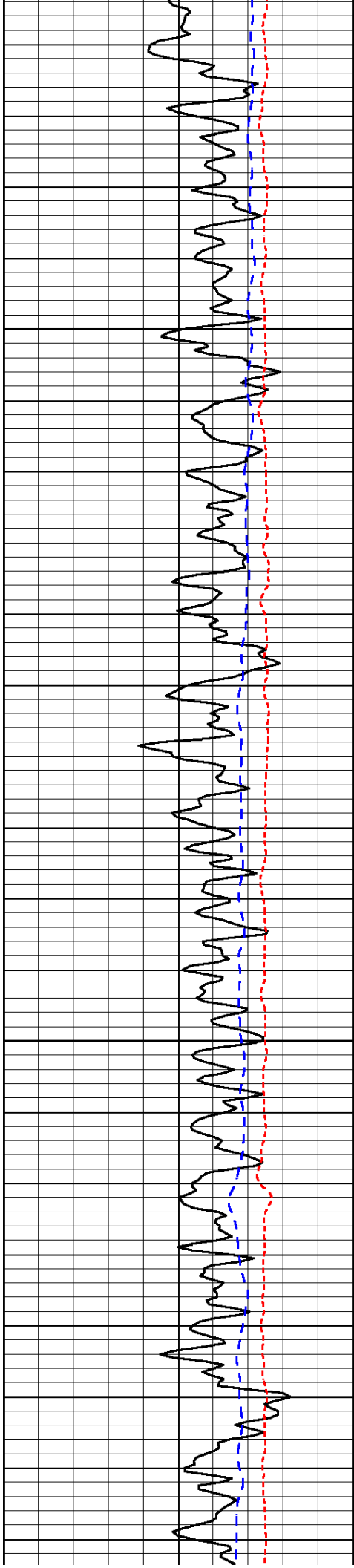
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-56

-81

-99

-97

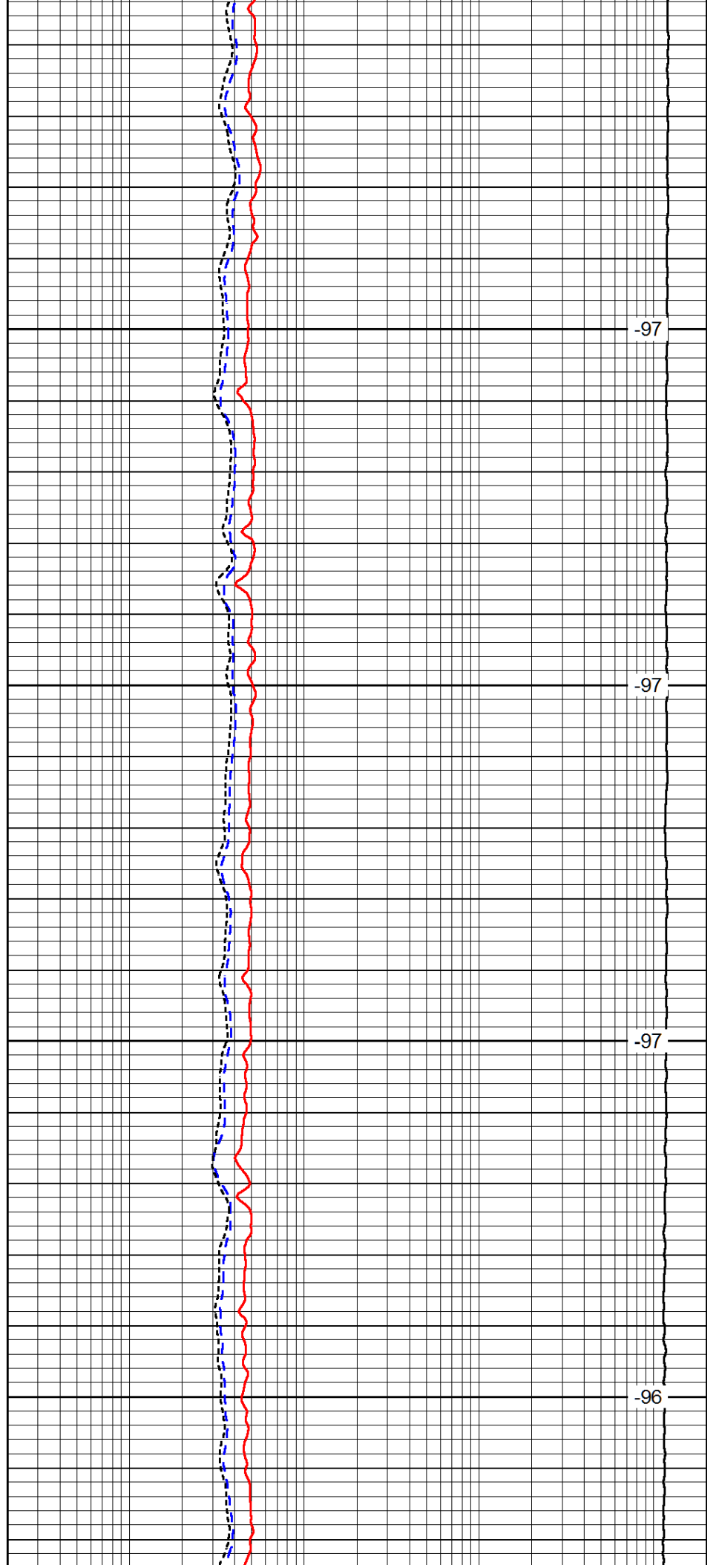


450

500

550

600

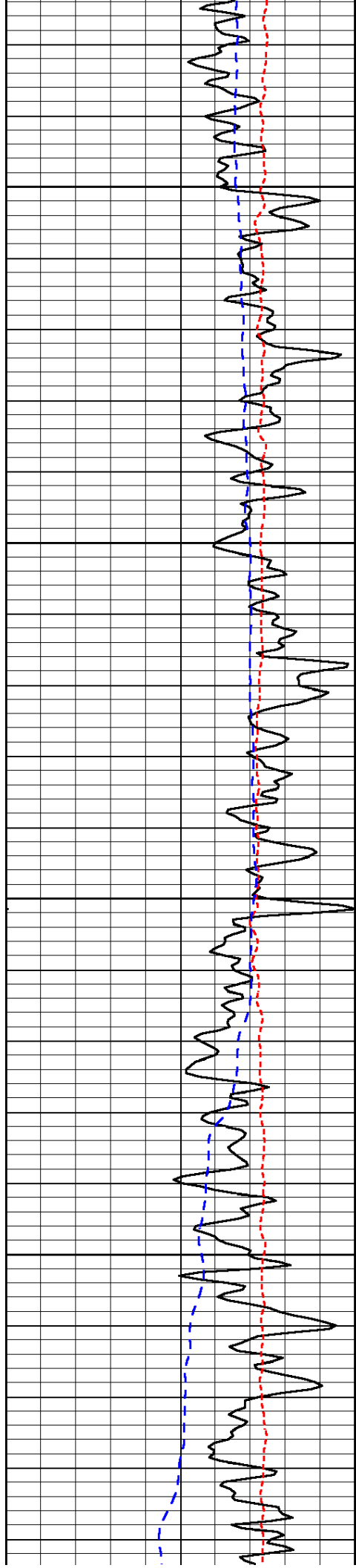


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-97

-97

-96

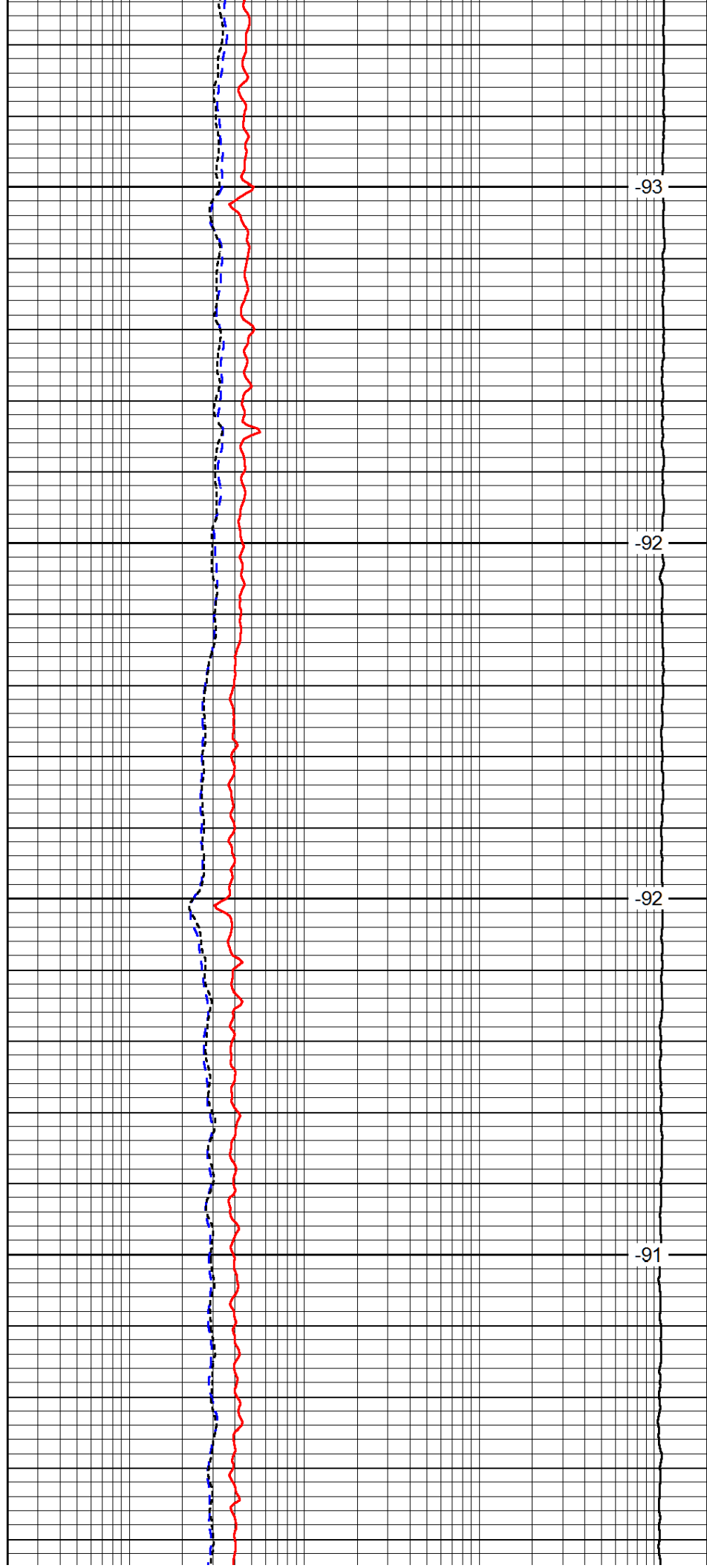


650

700

750

800

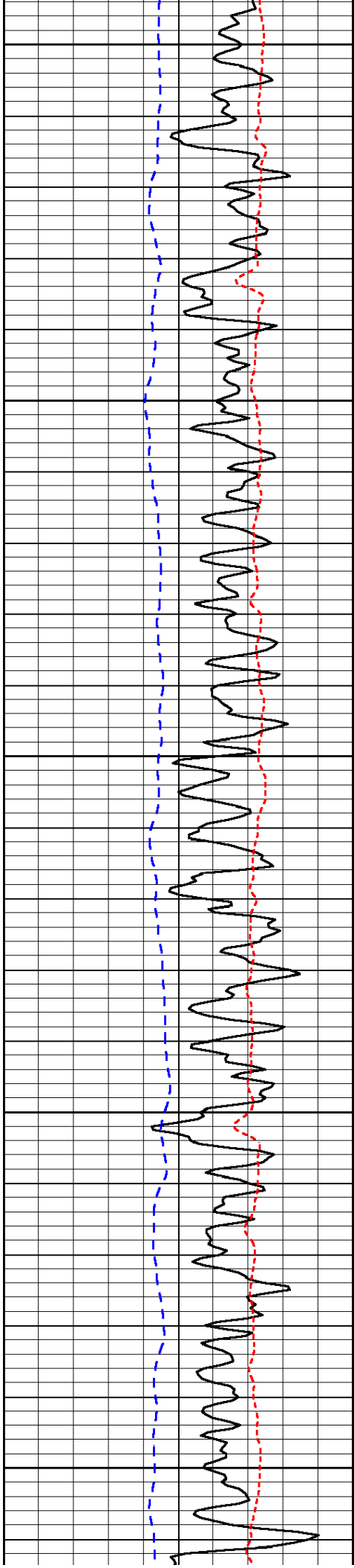


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-92

-92

-91



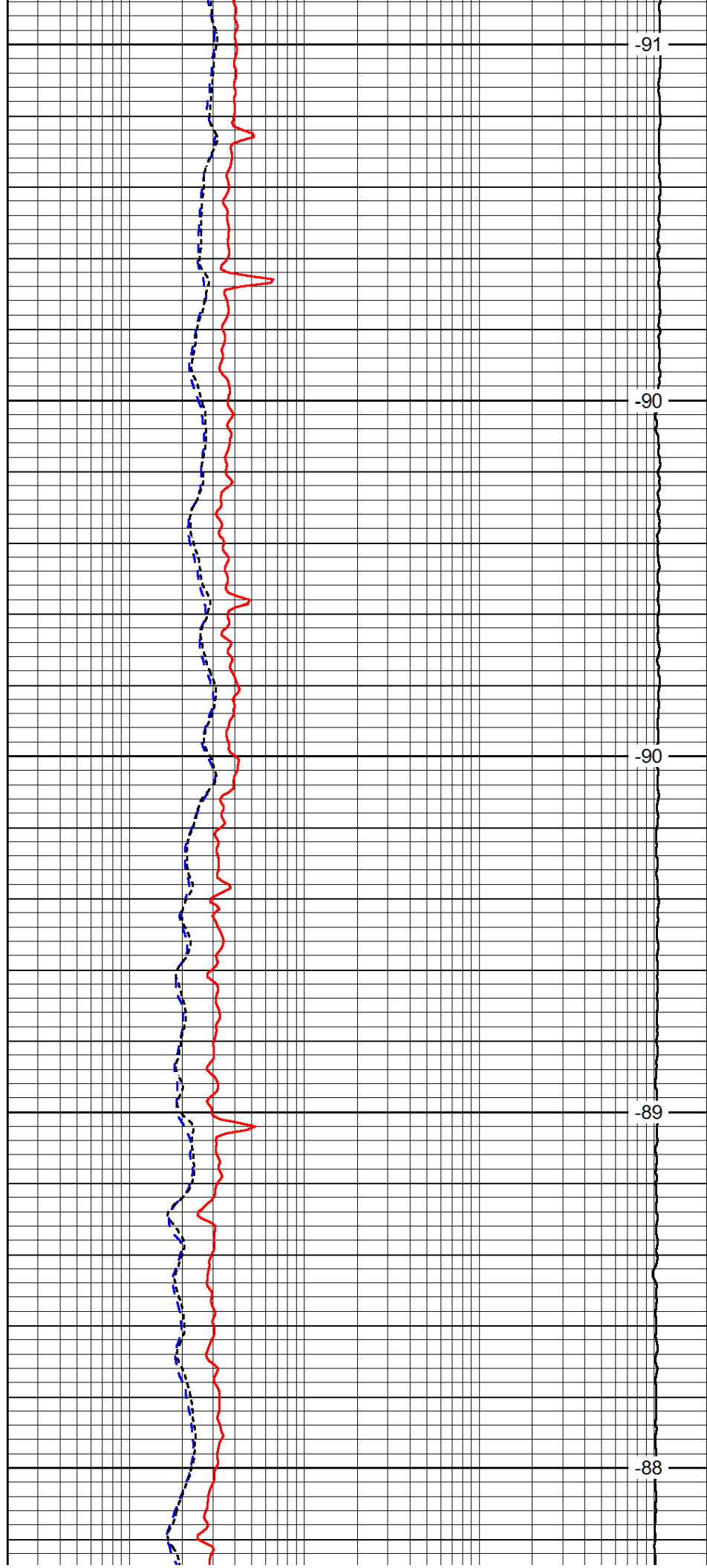
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900

950

1000

1050



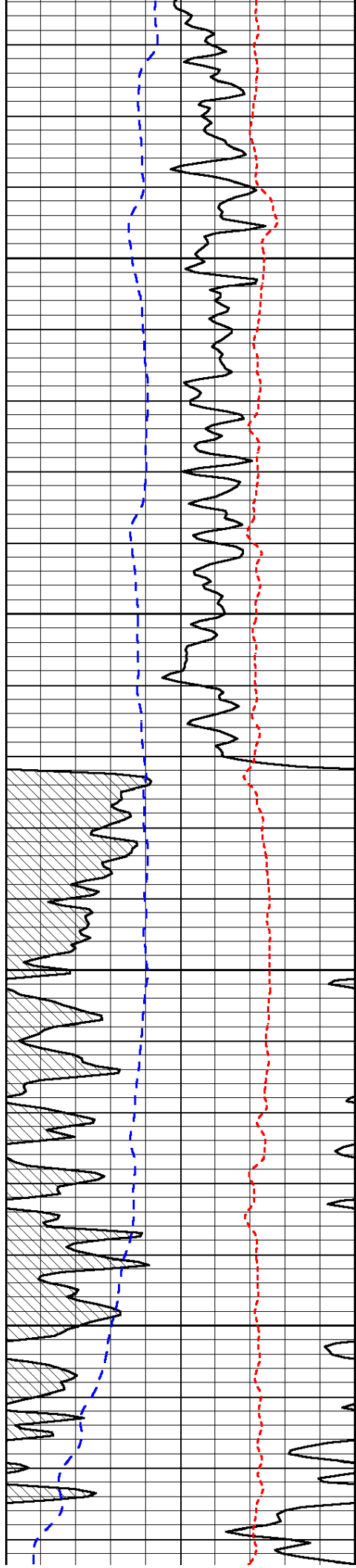
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-90

-90

-89

-88



1100

1150

1200

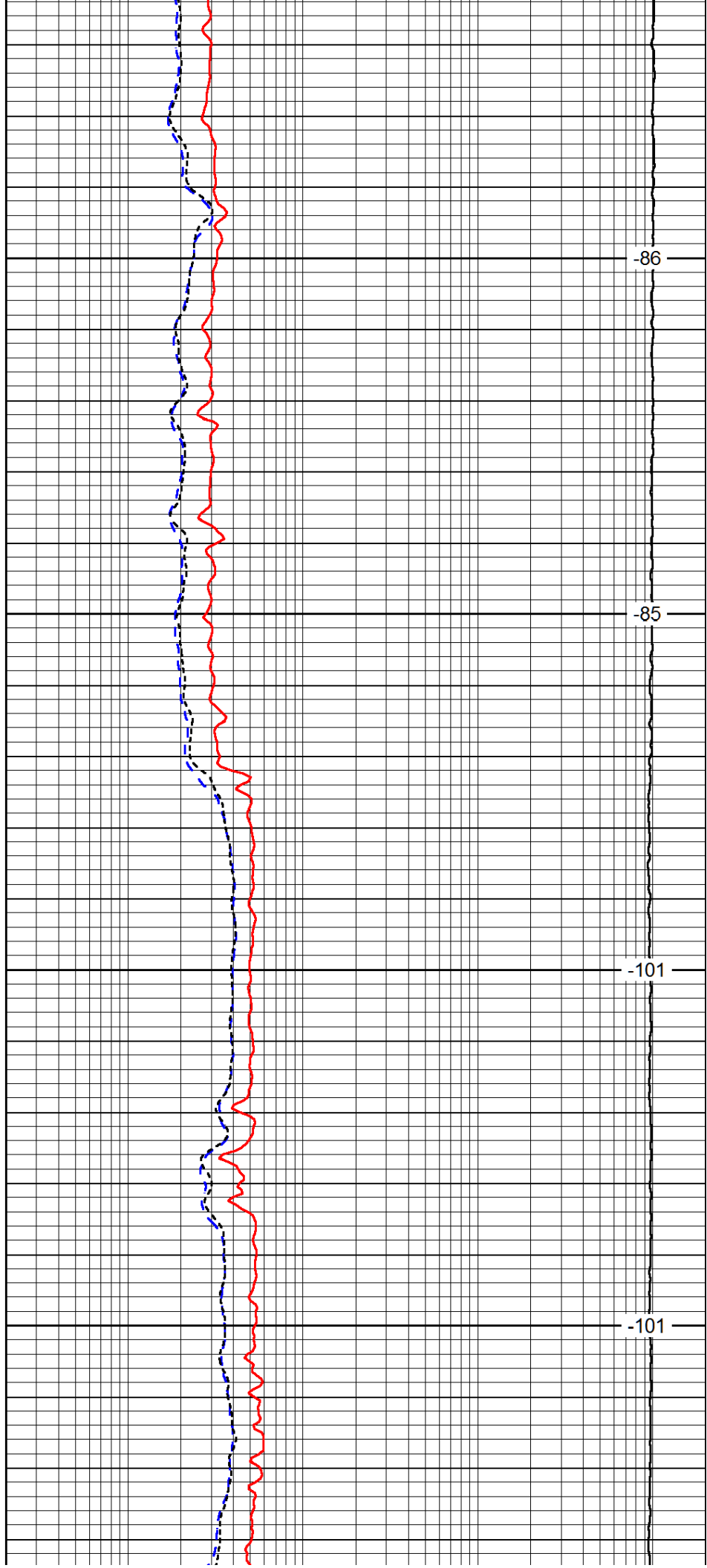
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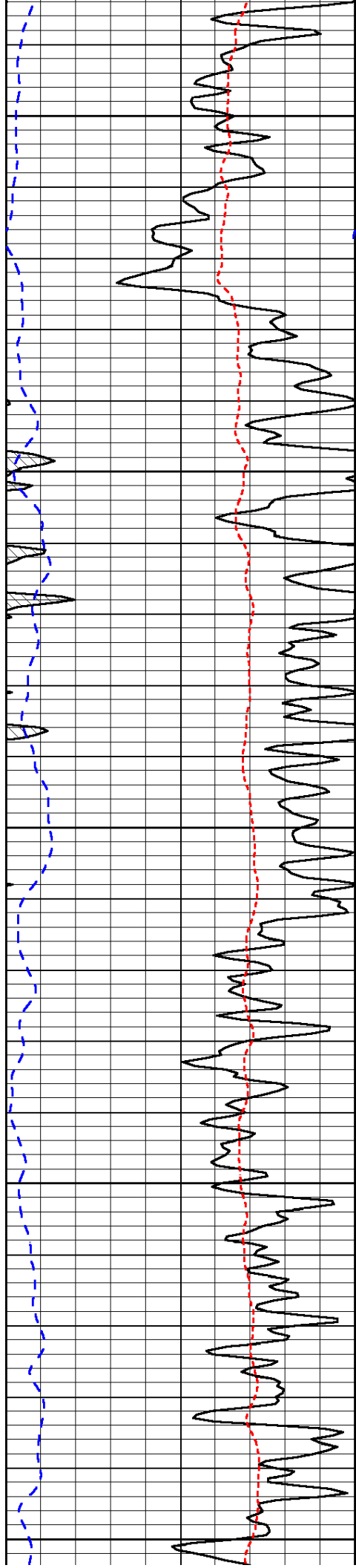
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-101

-101





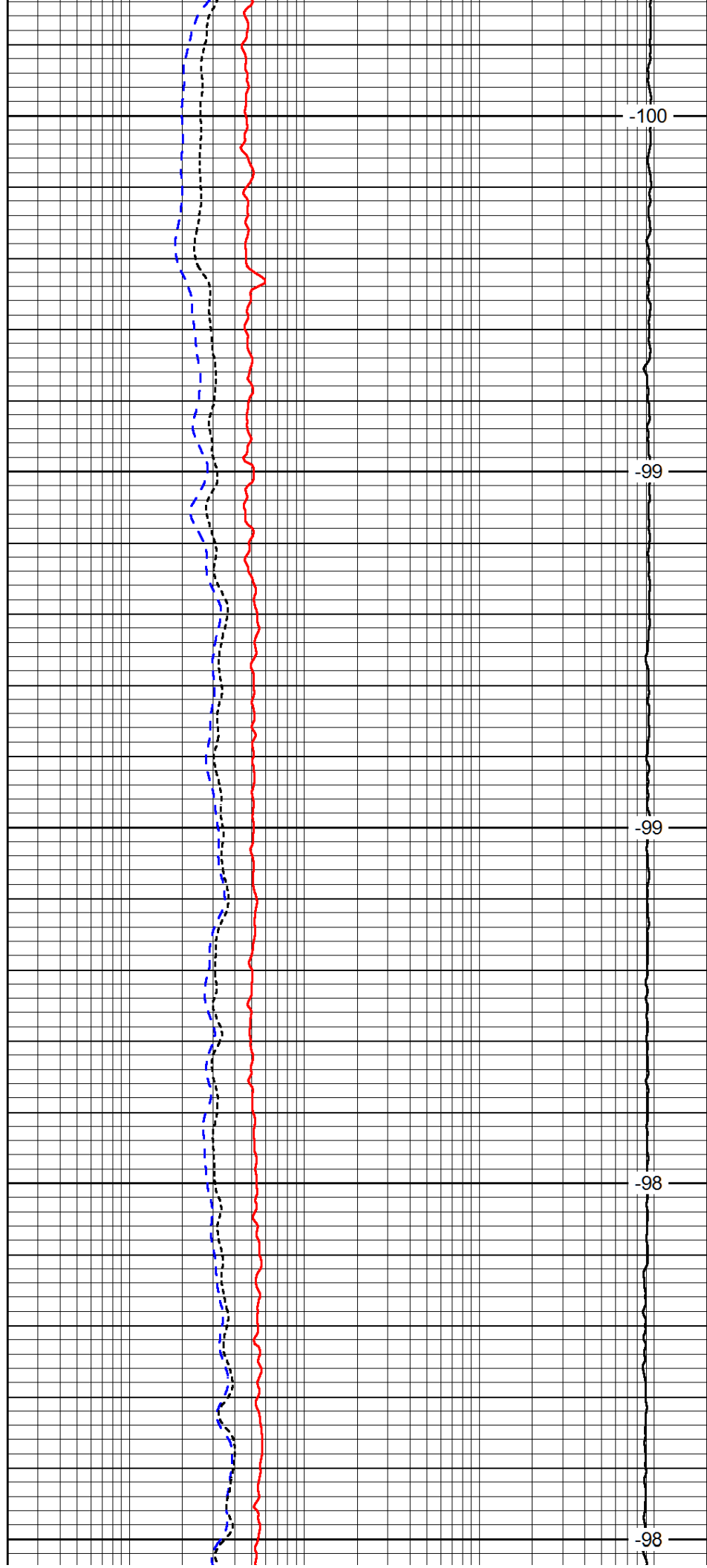
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1350

1400

1450

1500



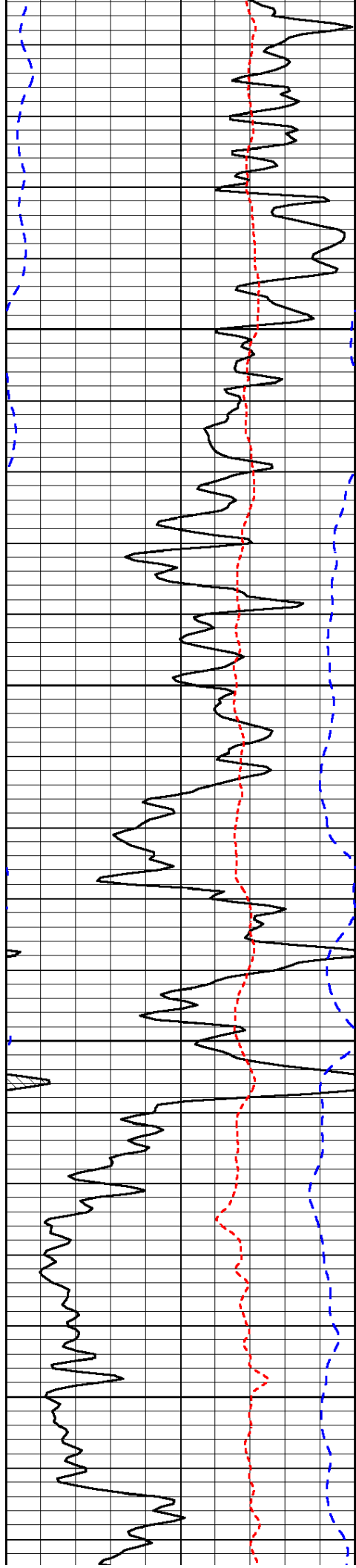
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-99

-98

-98

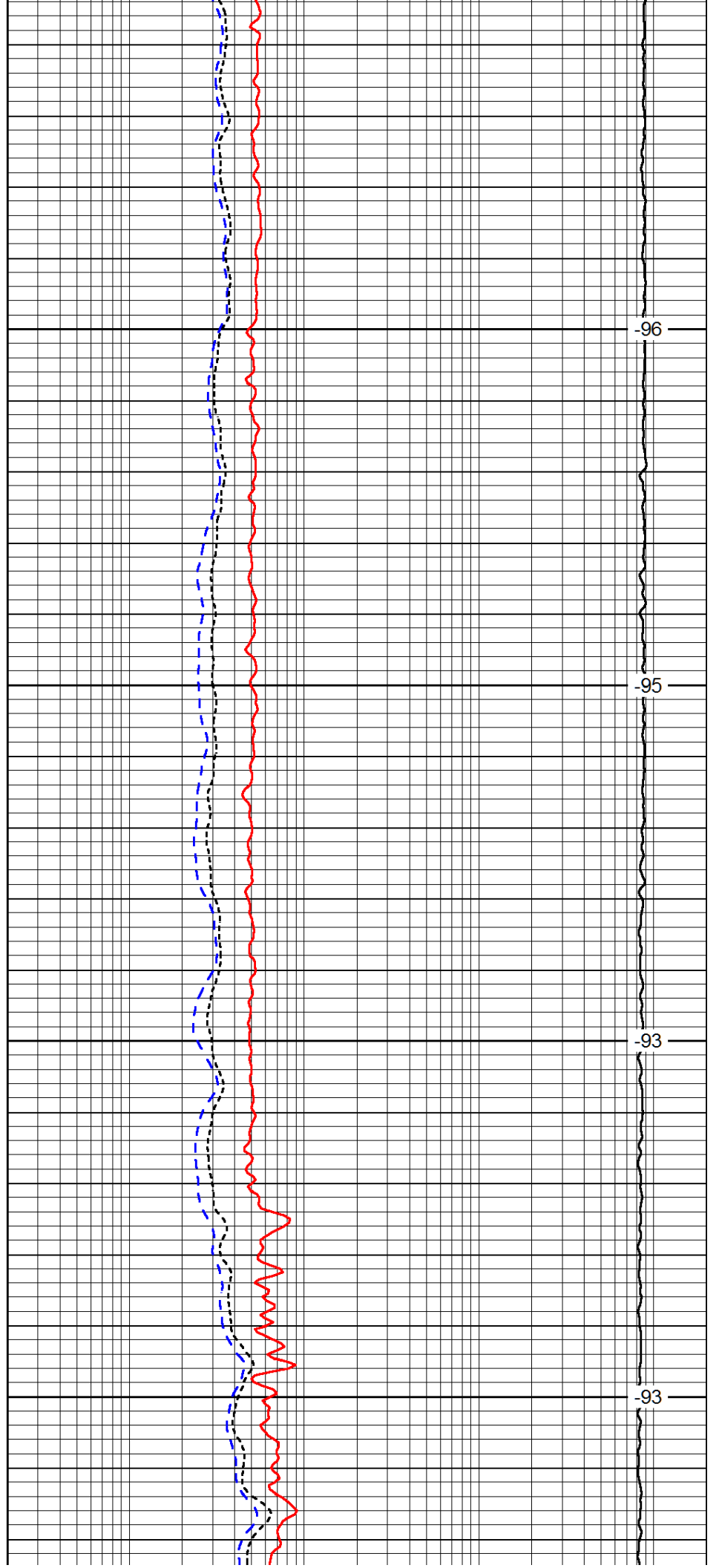


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1700

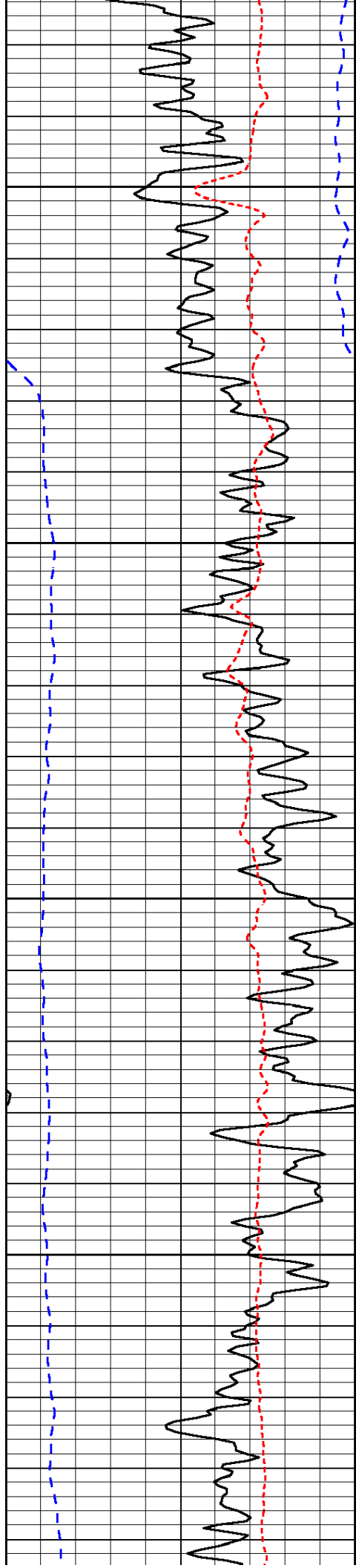


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-93

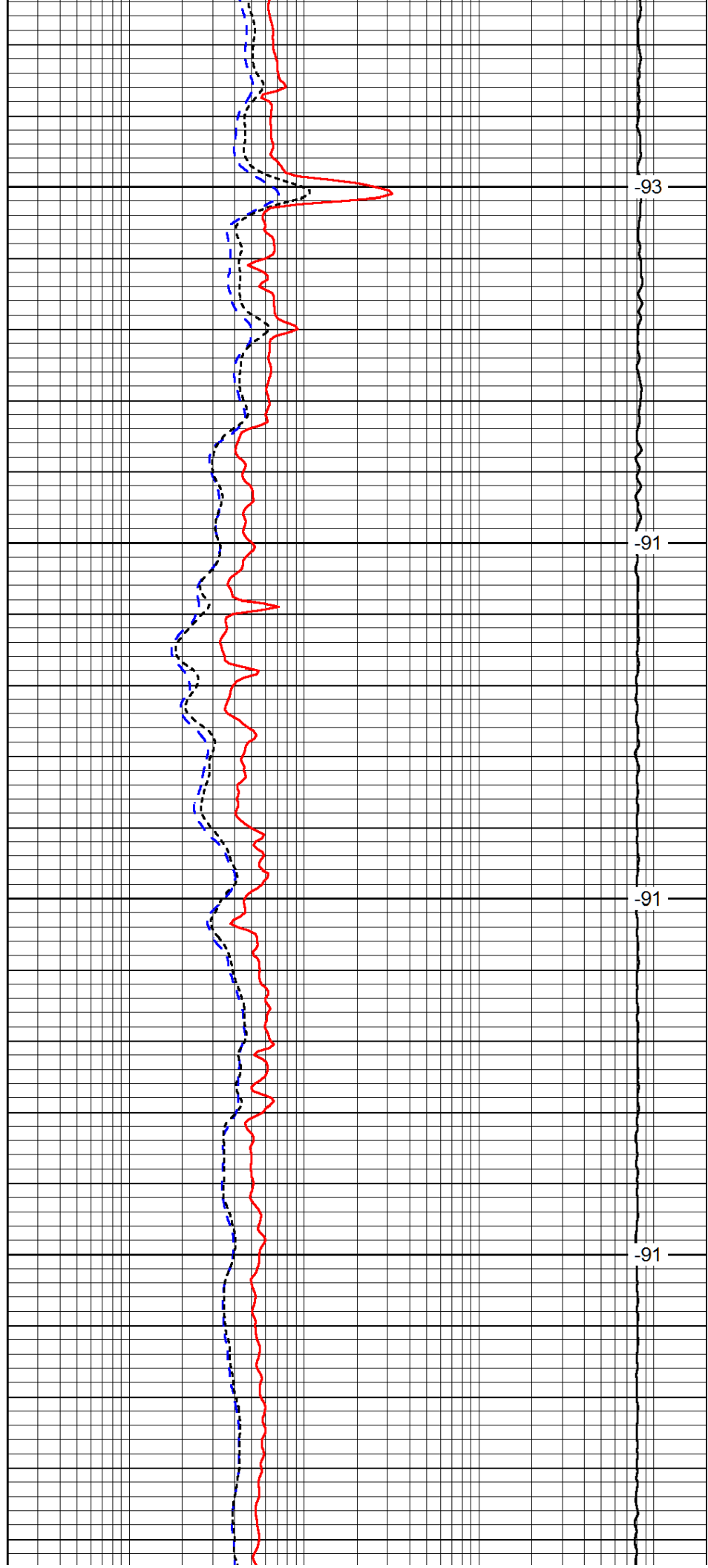


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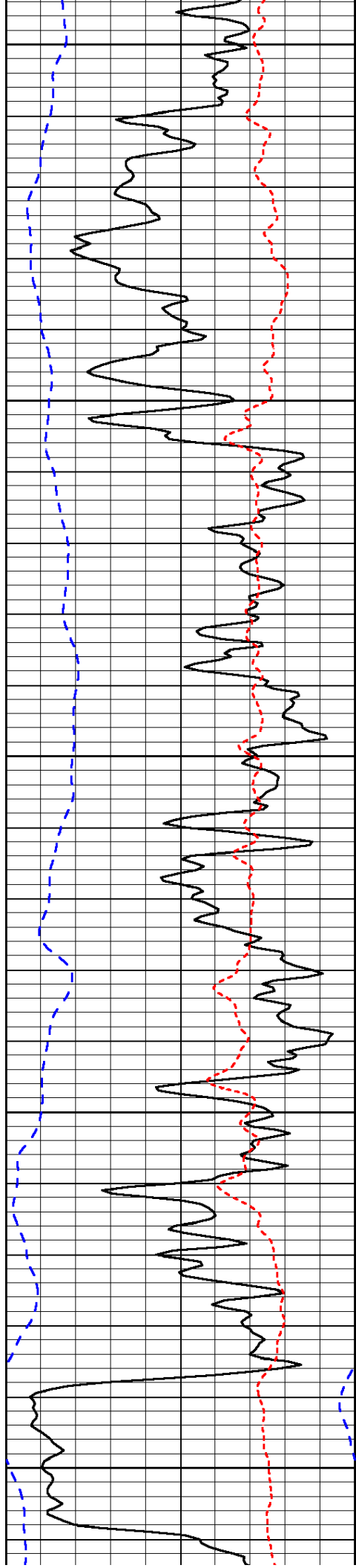


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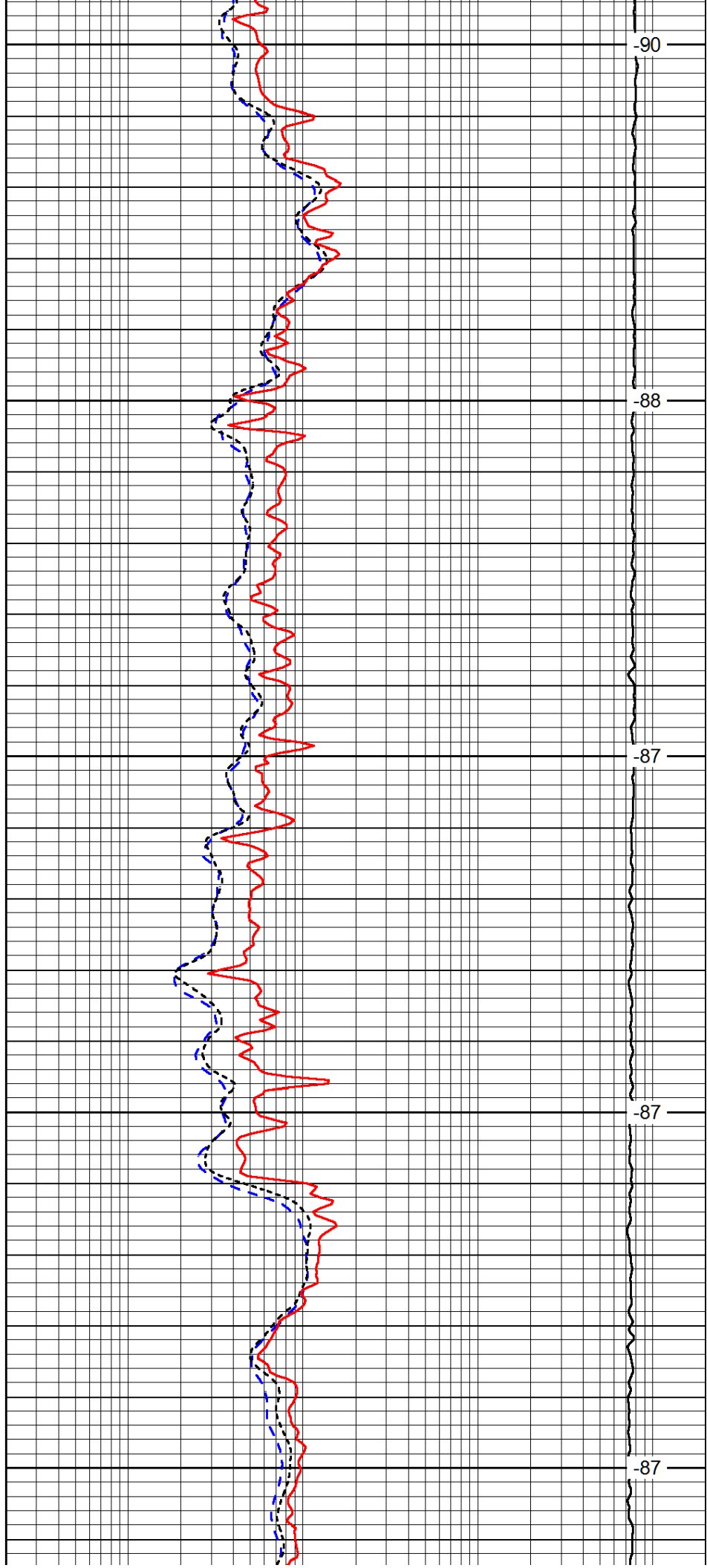
1950

2000

2050

2100

2150



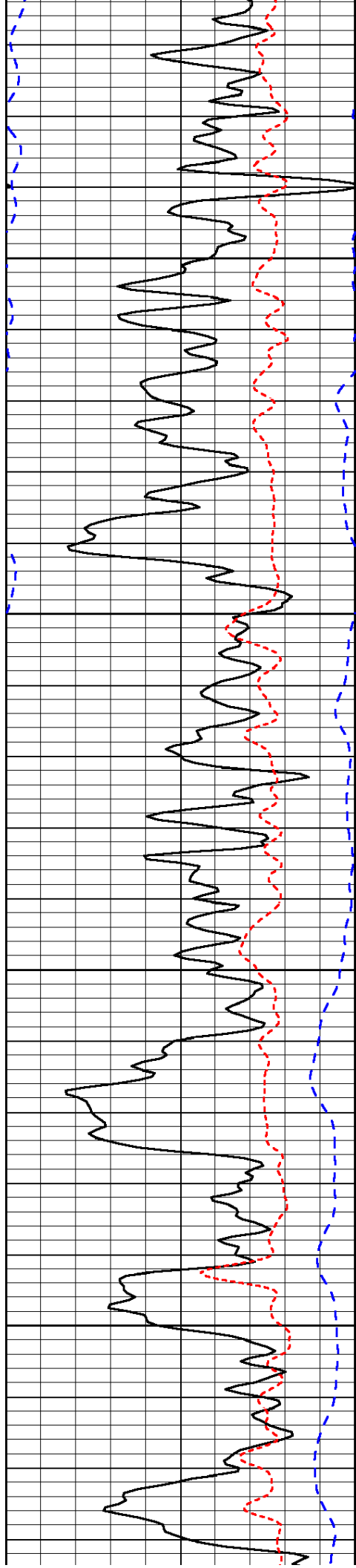
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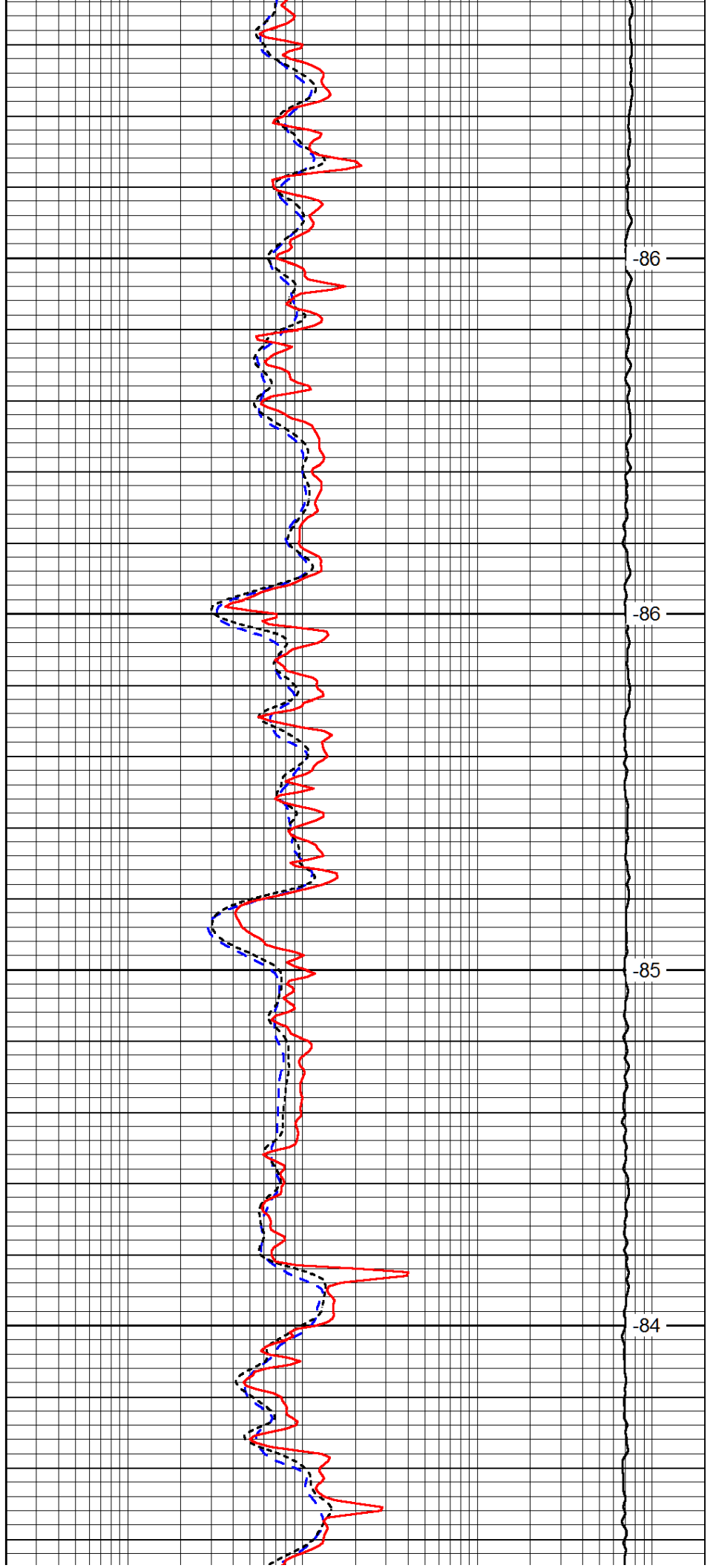


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2250

2300

2350

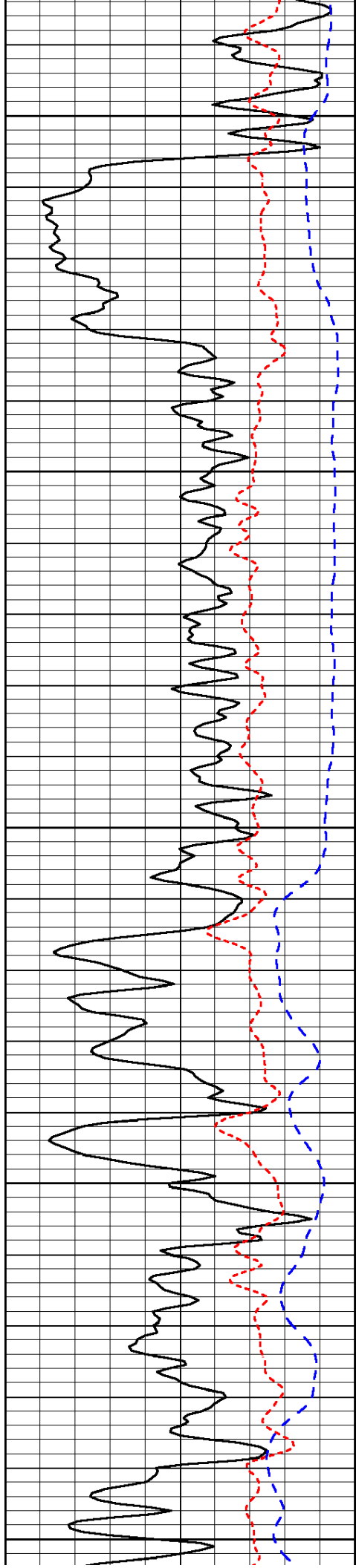


-86

-86

-85

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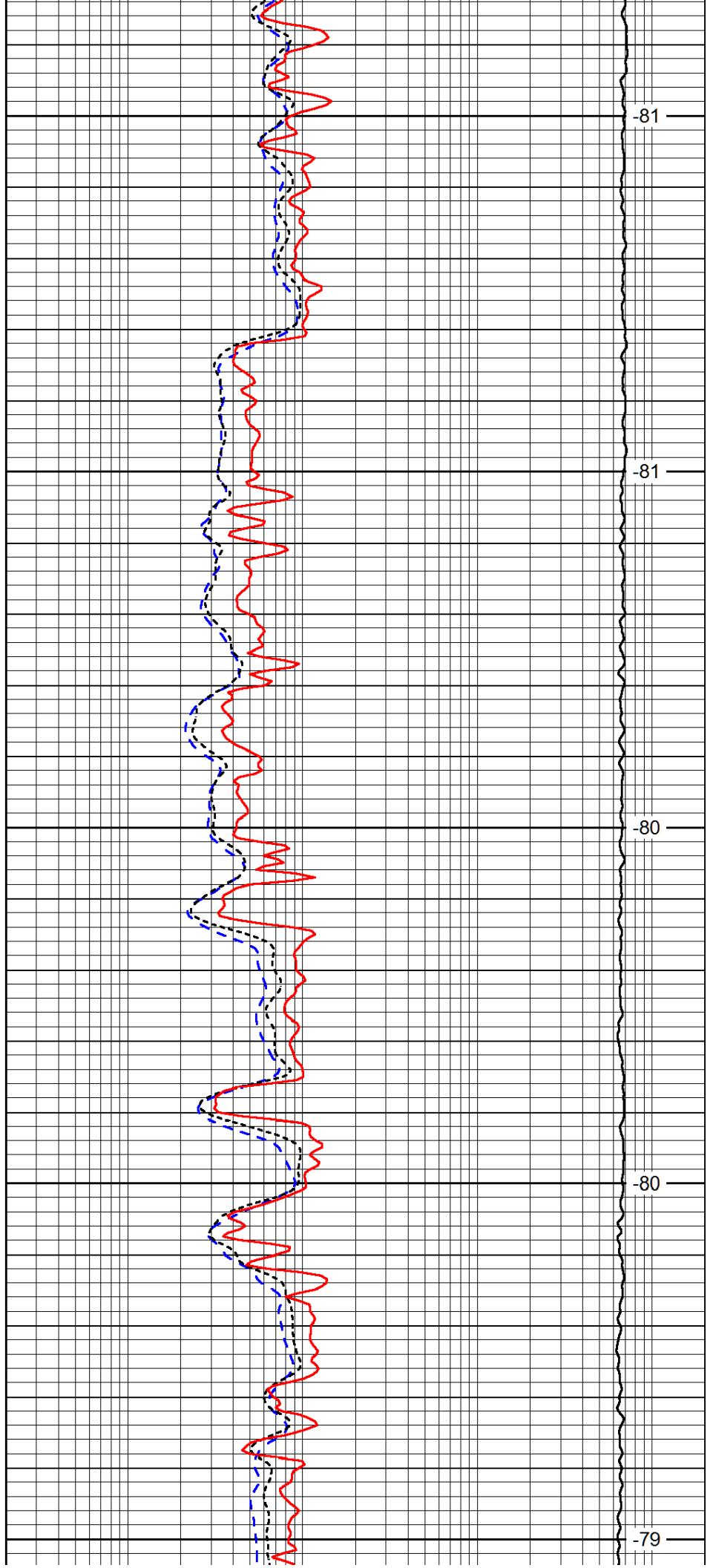
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2600



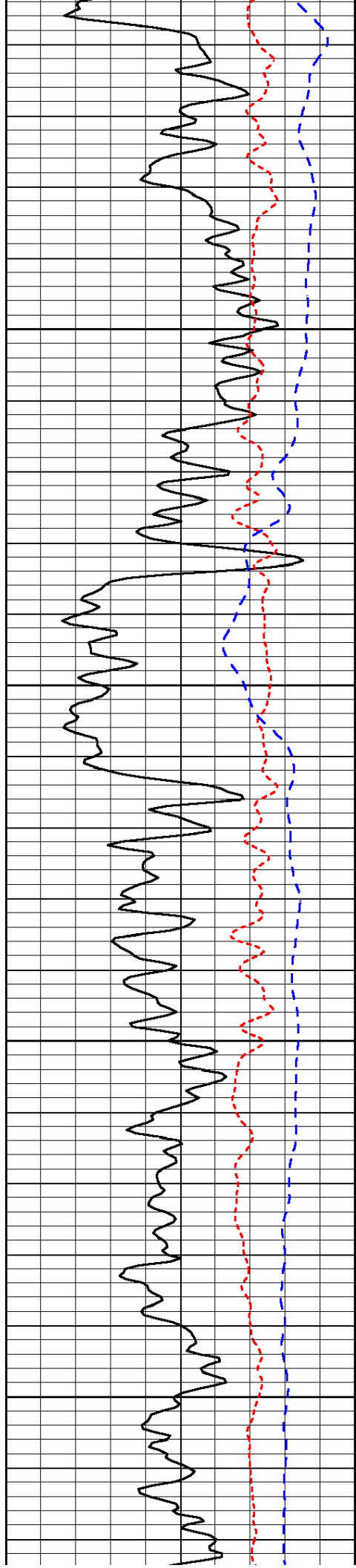
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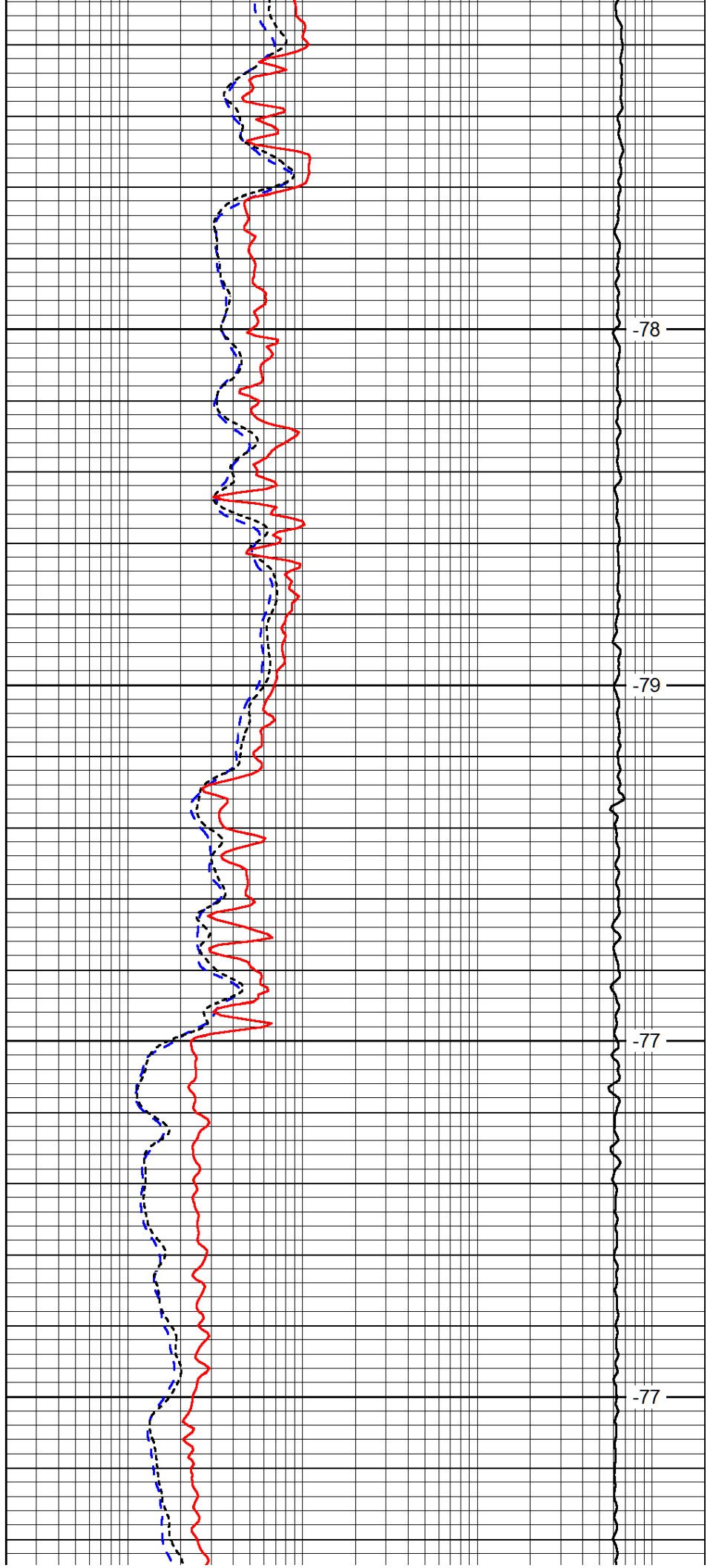


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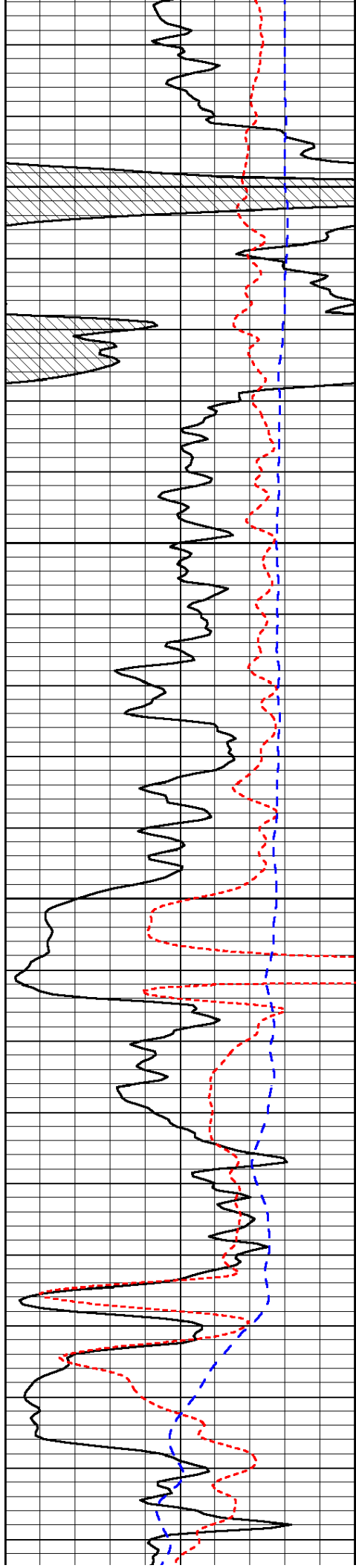


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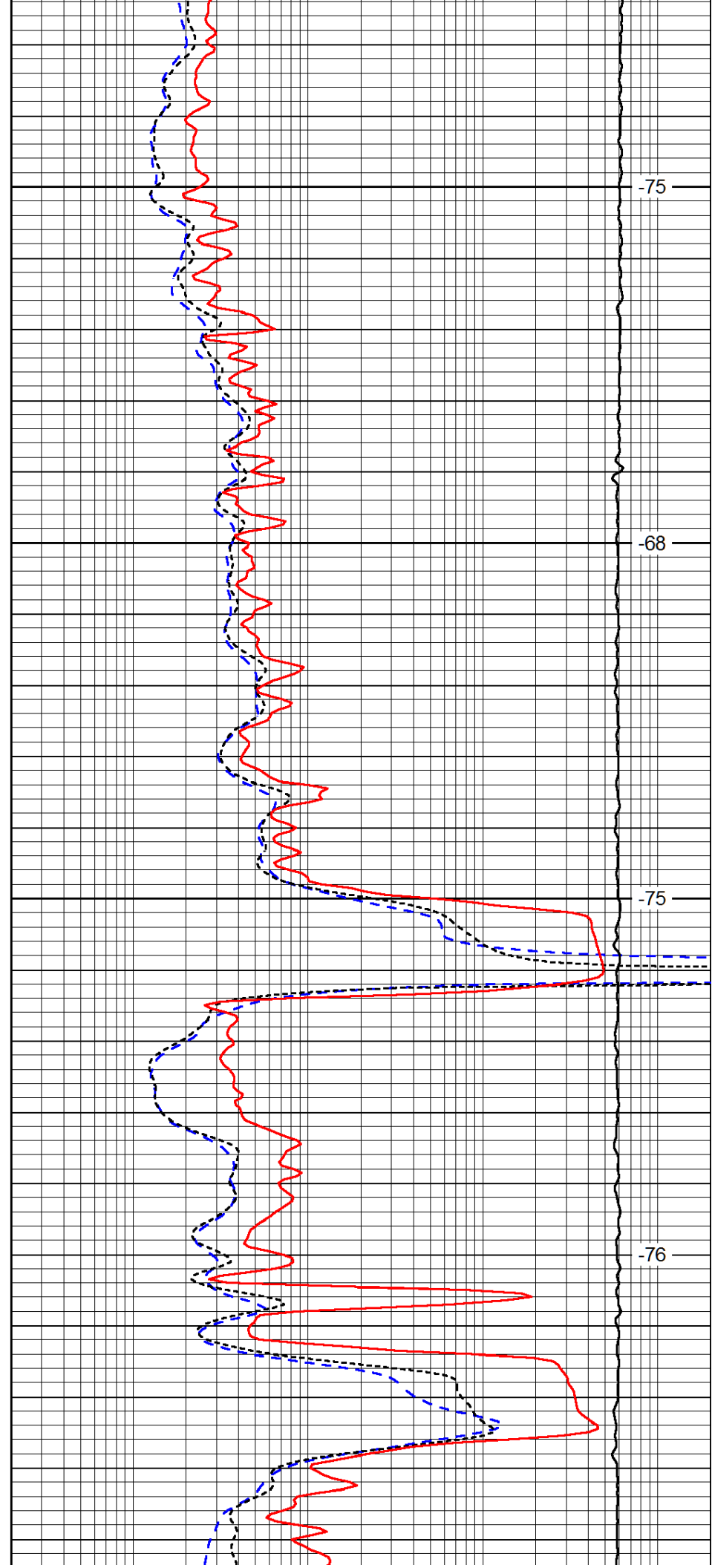


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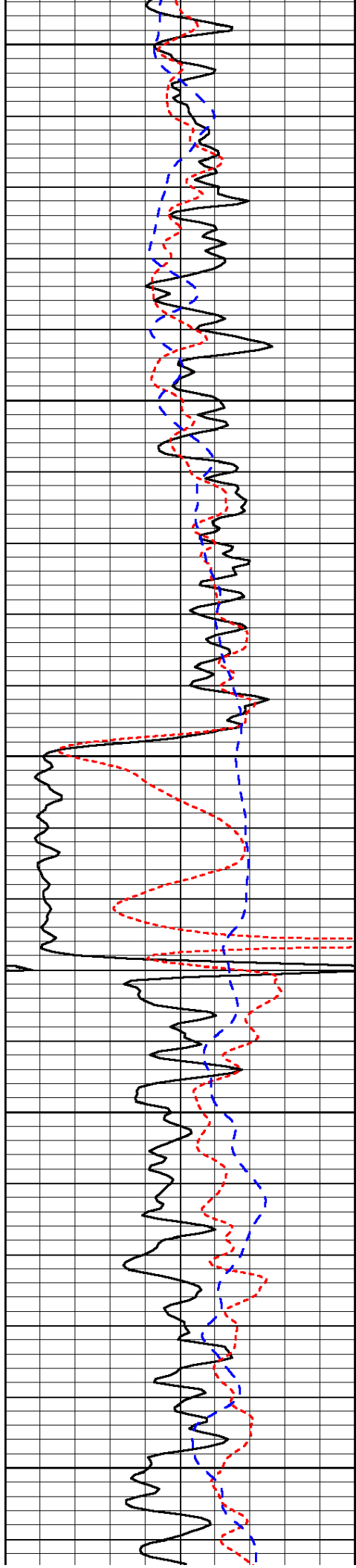


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-68

-75

-76



3050

3100

3150

3200

3250

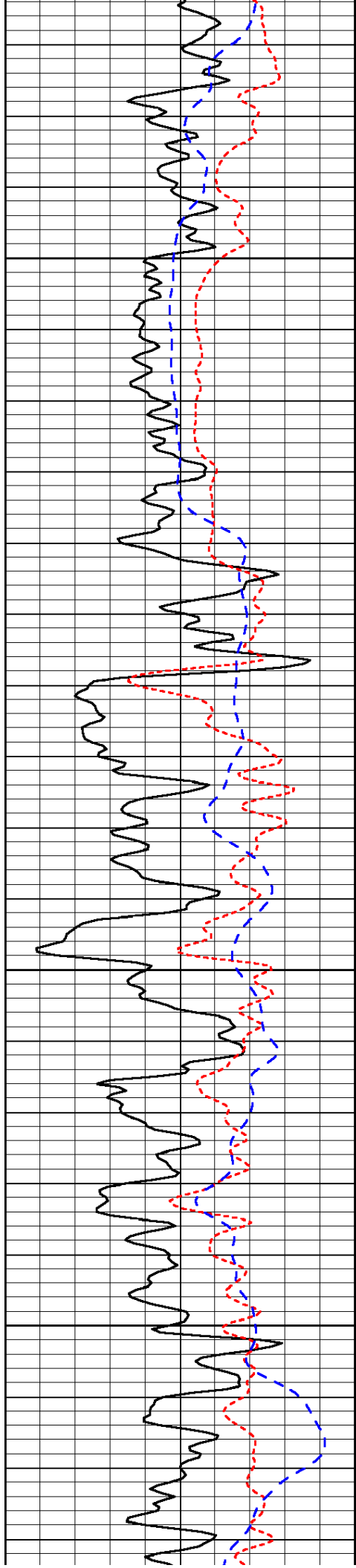
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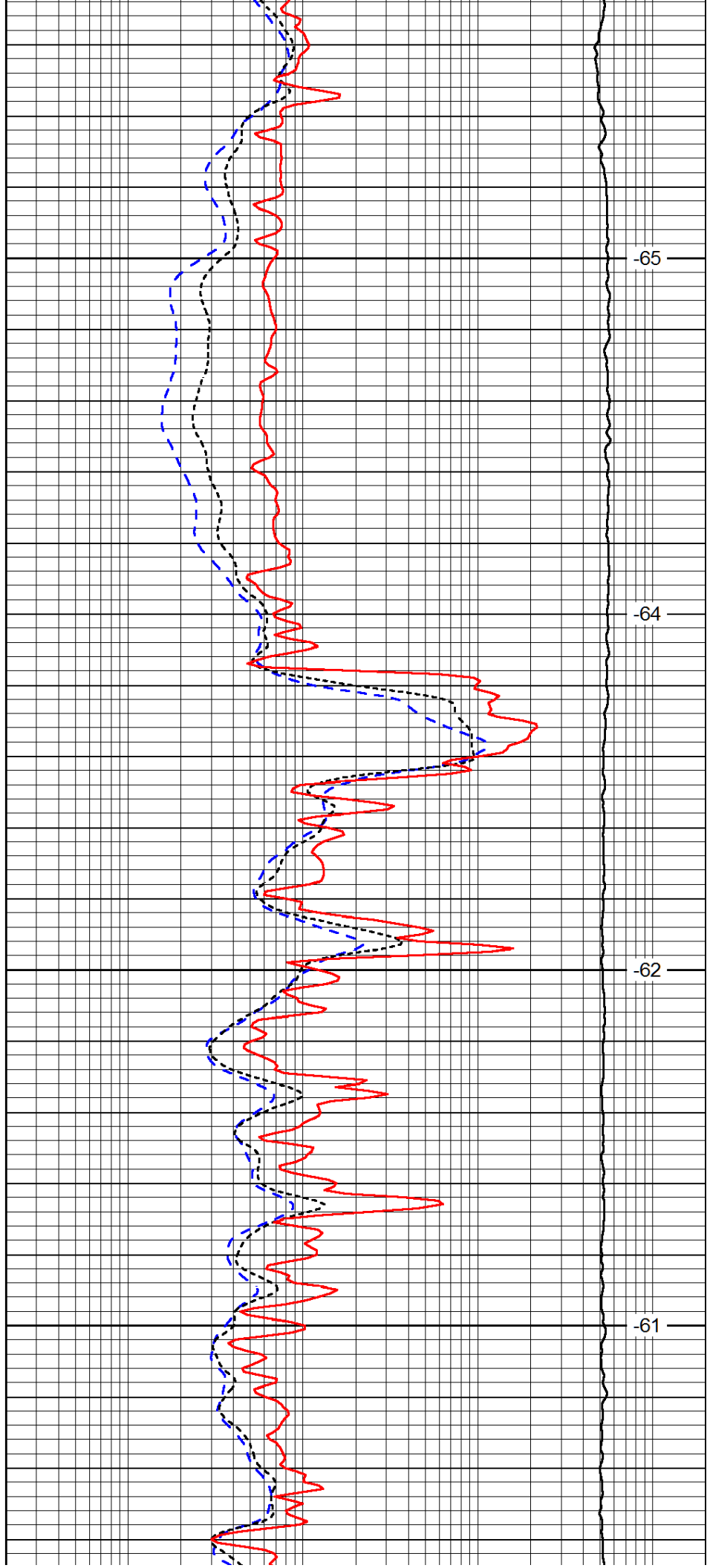


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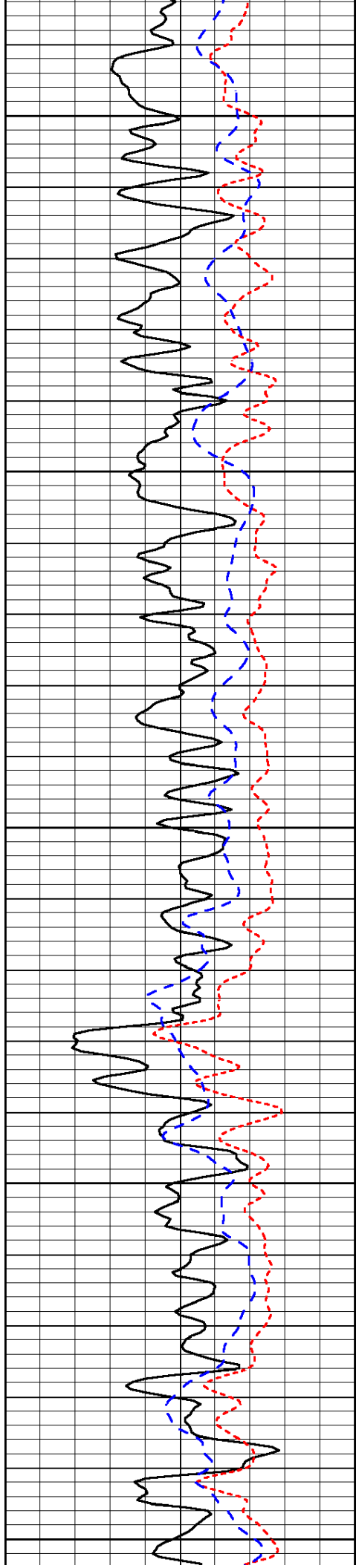


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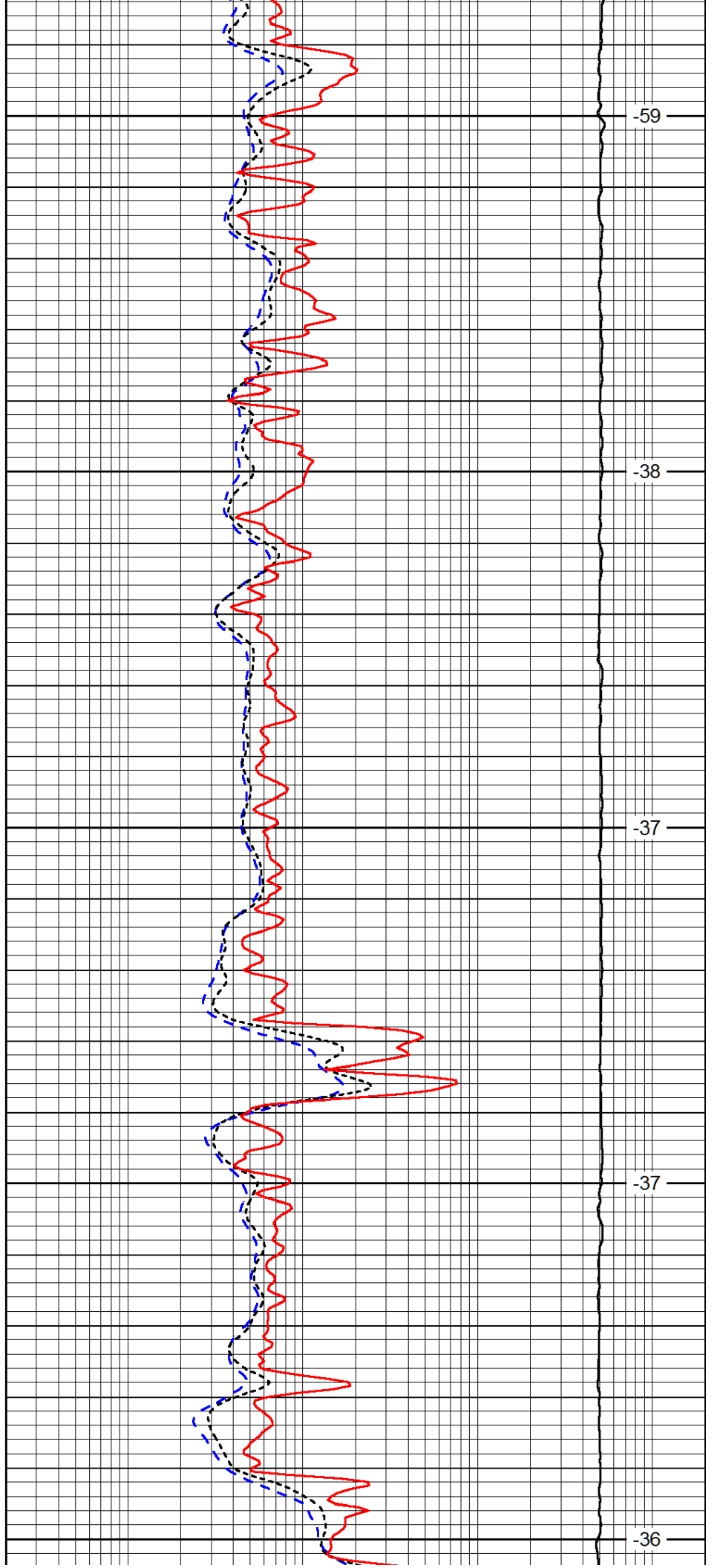
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3650

3700



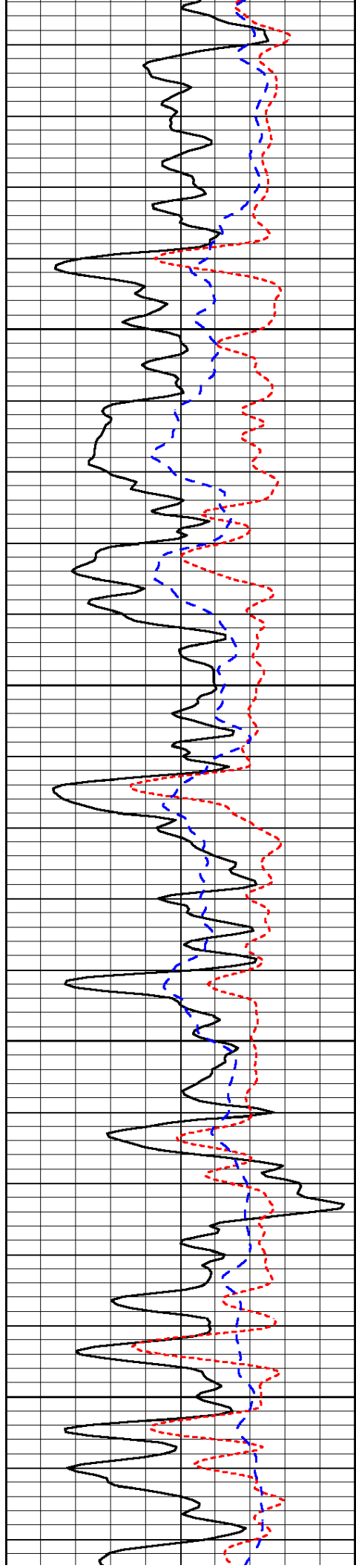
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-38

-37

-37

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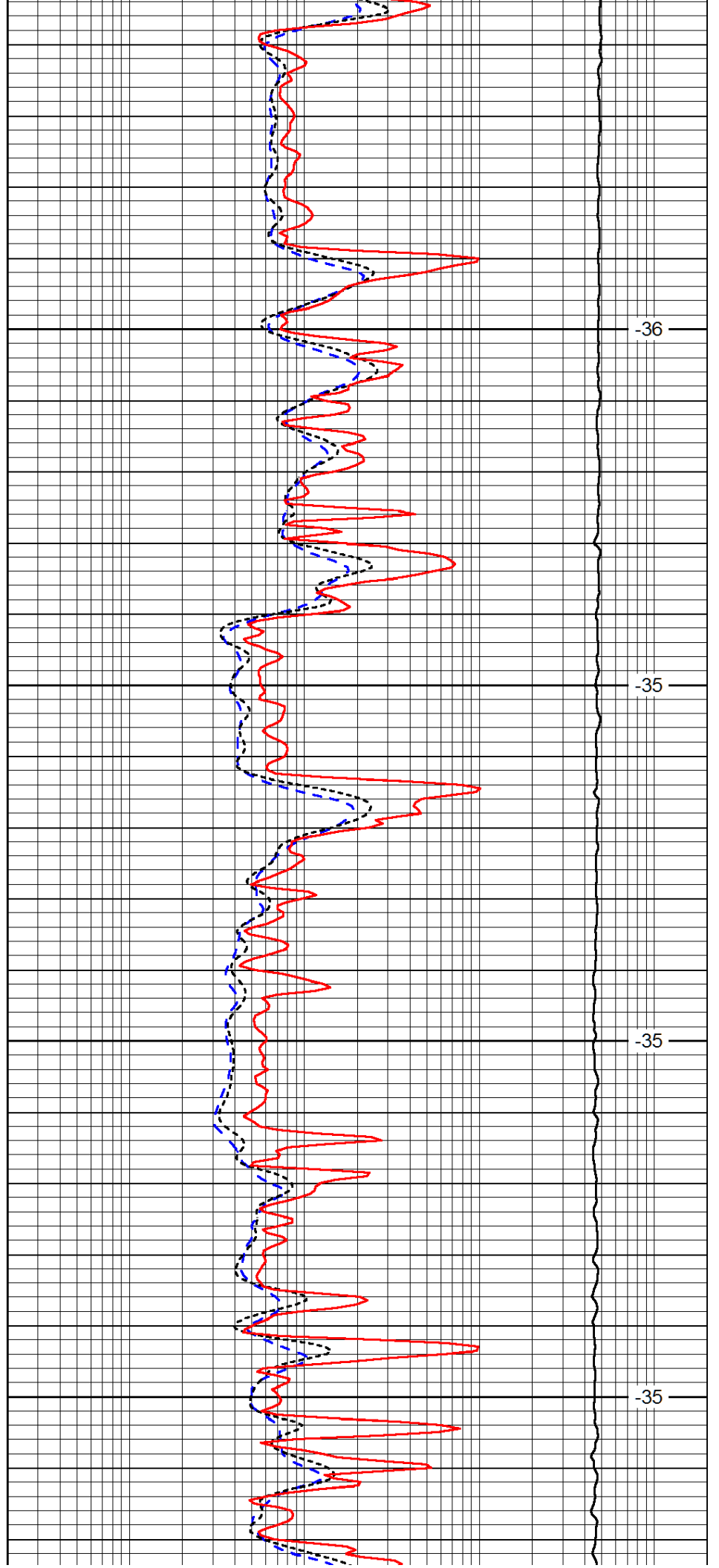


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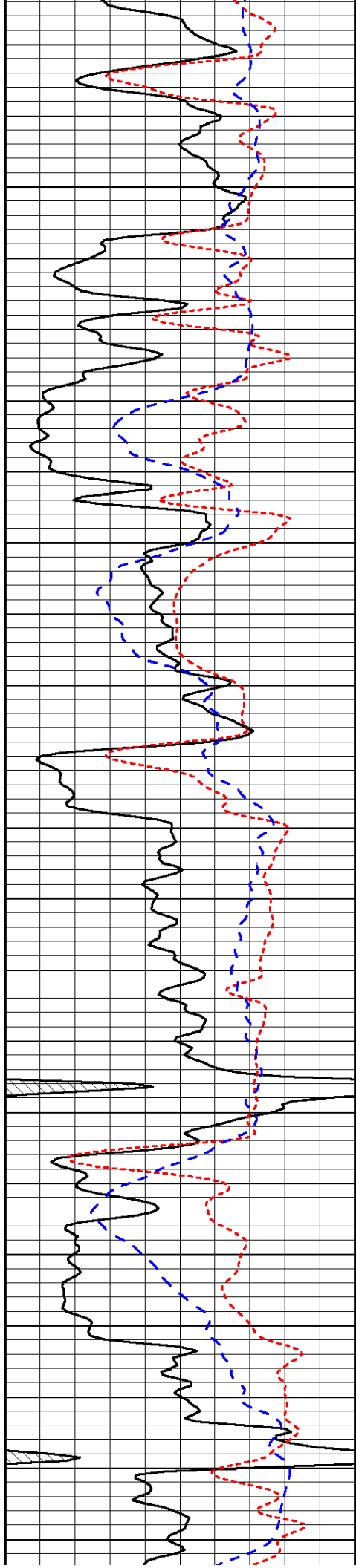


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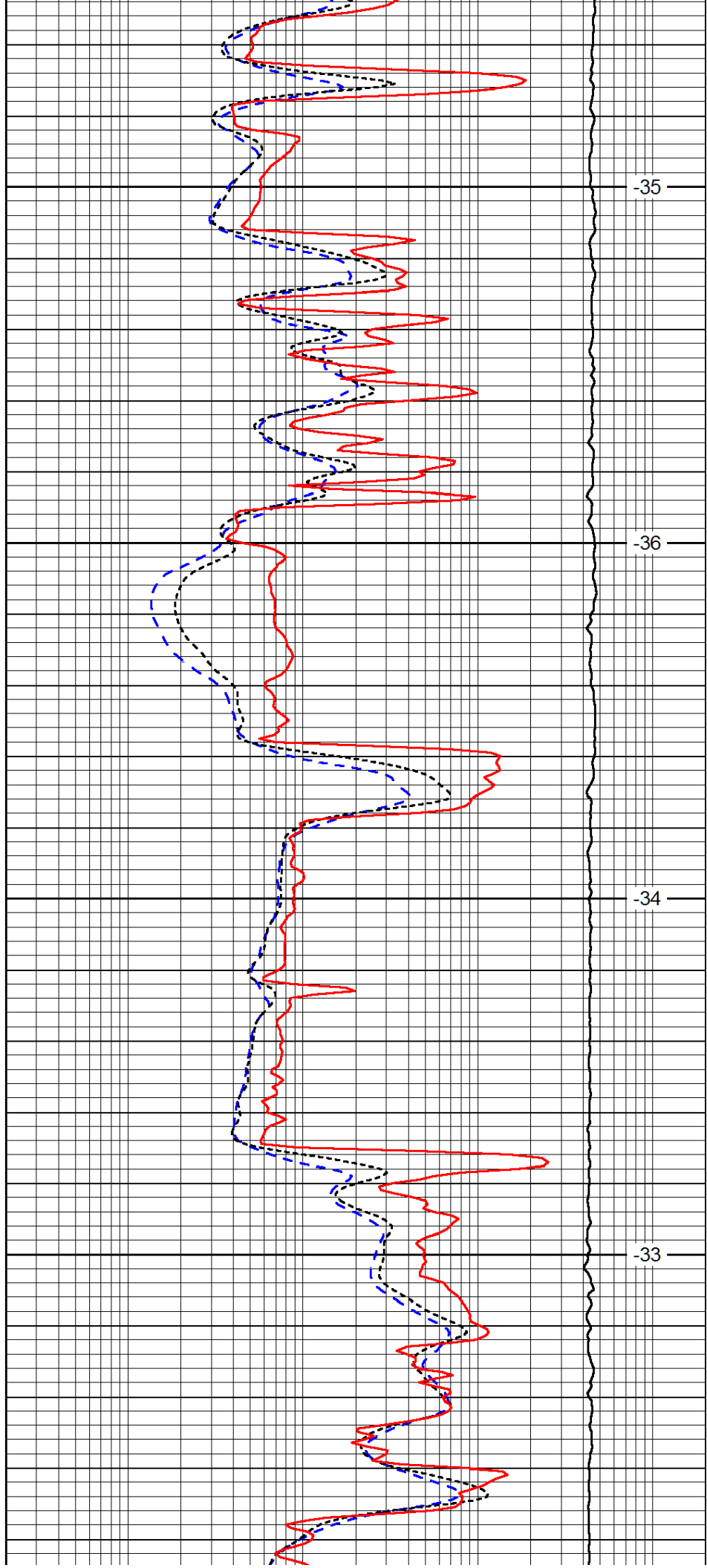


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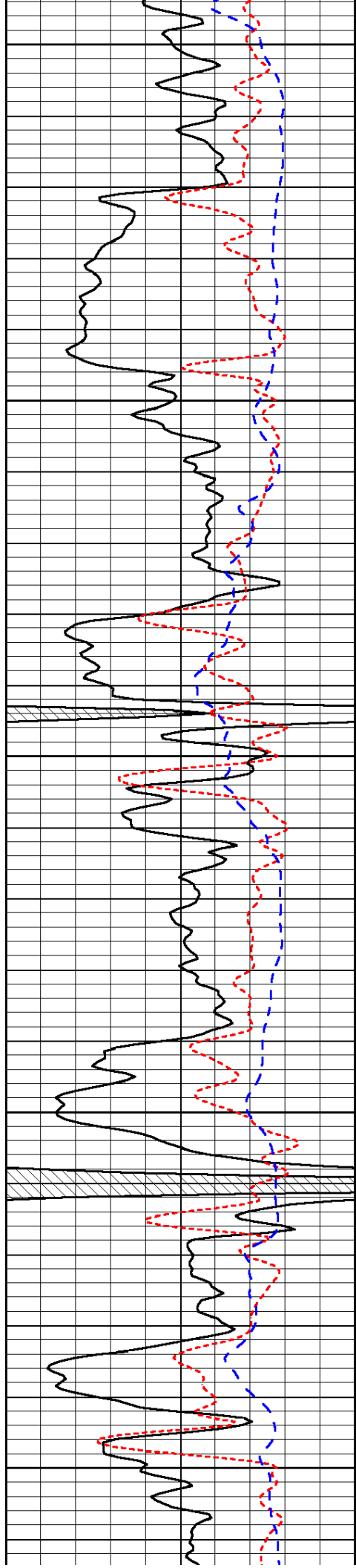


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-34

-33



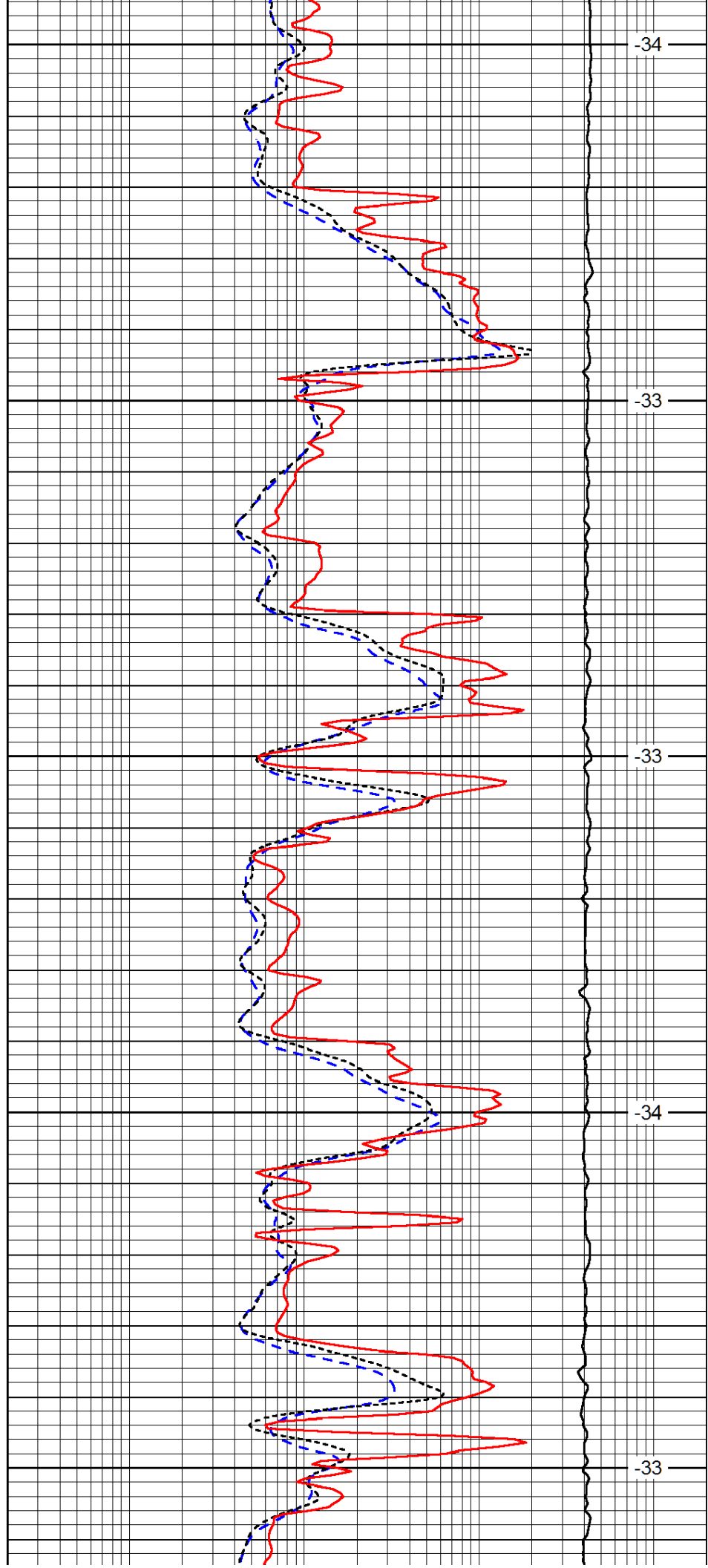
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4200

4250

4300

4350



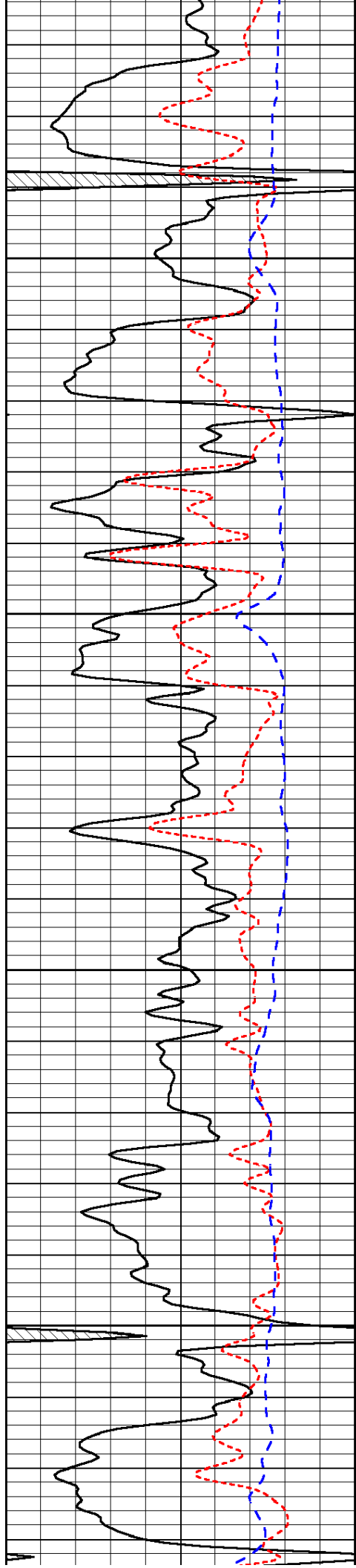
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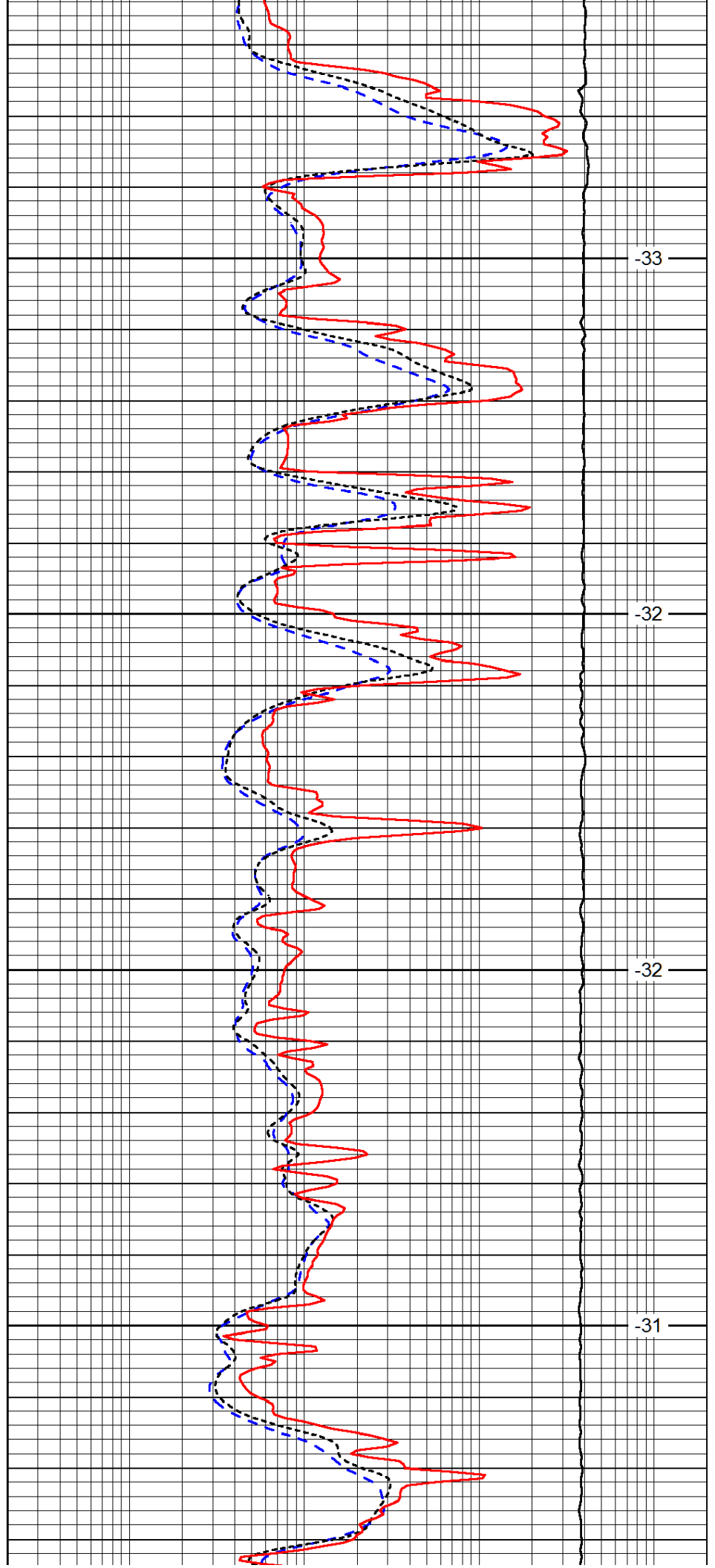


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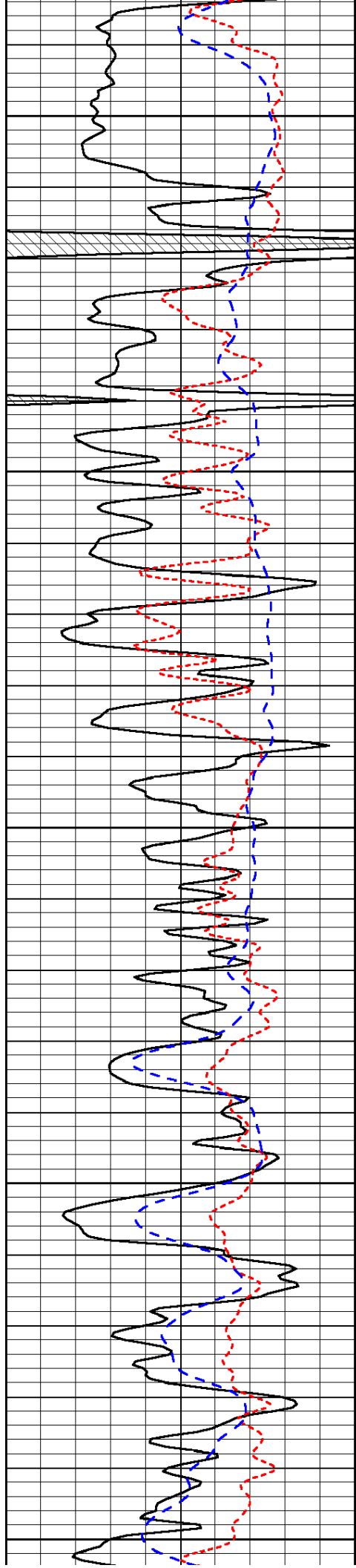


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-32

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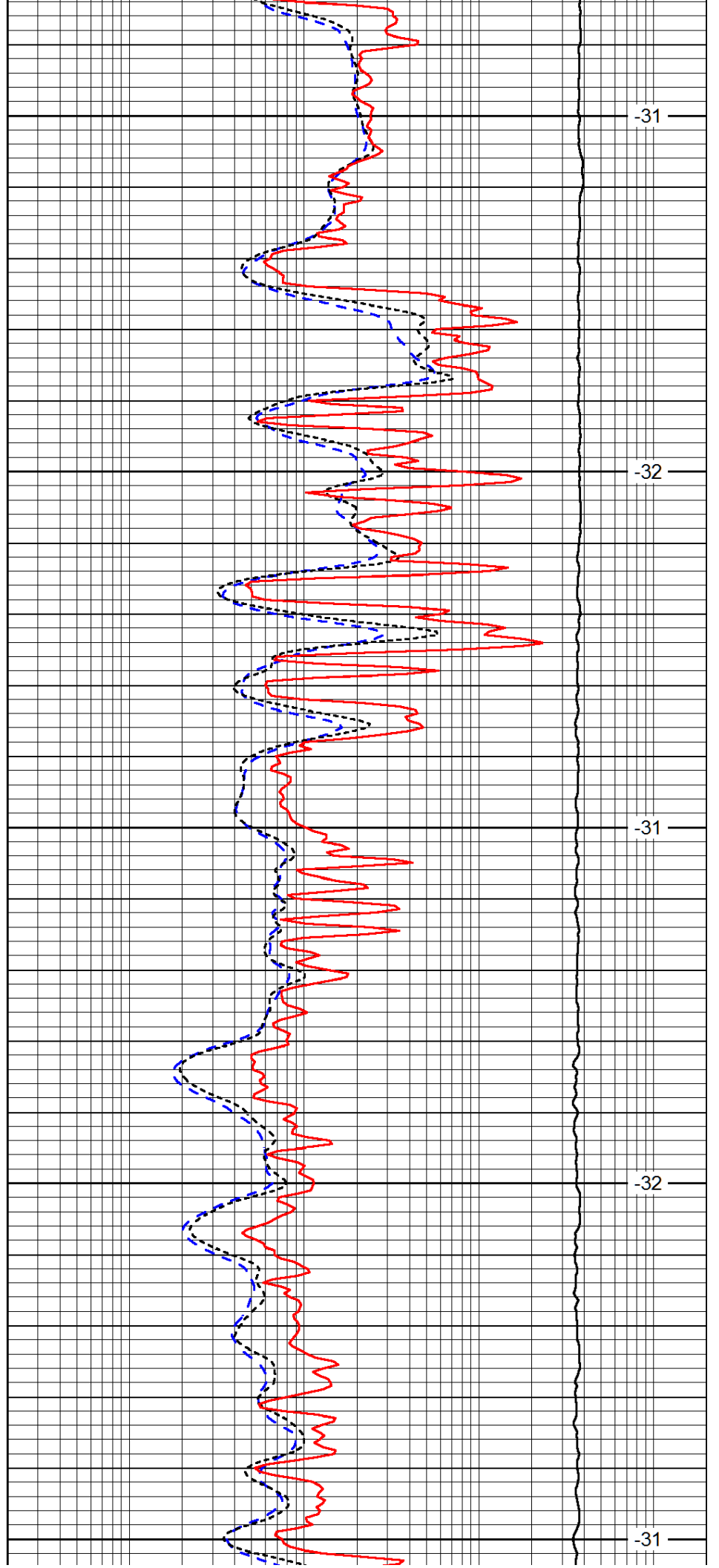
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4700

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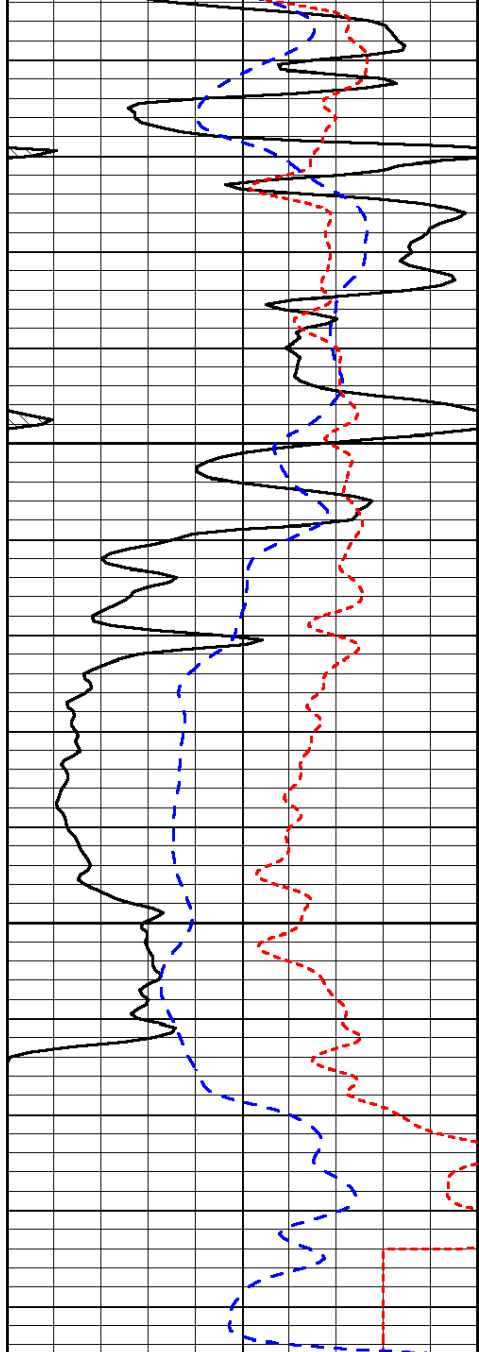
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-32

-31

-32

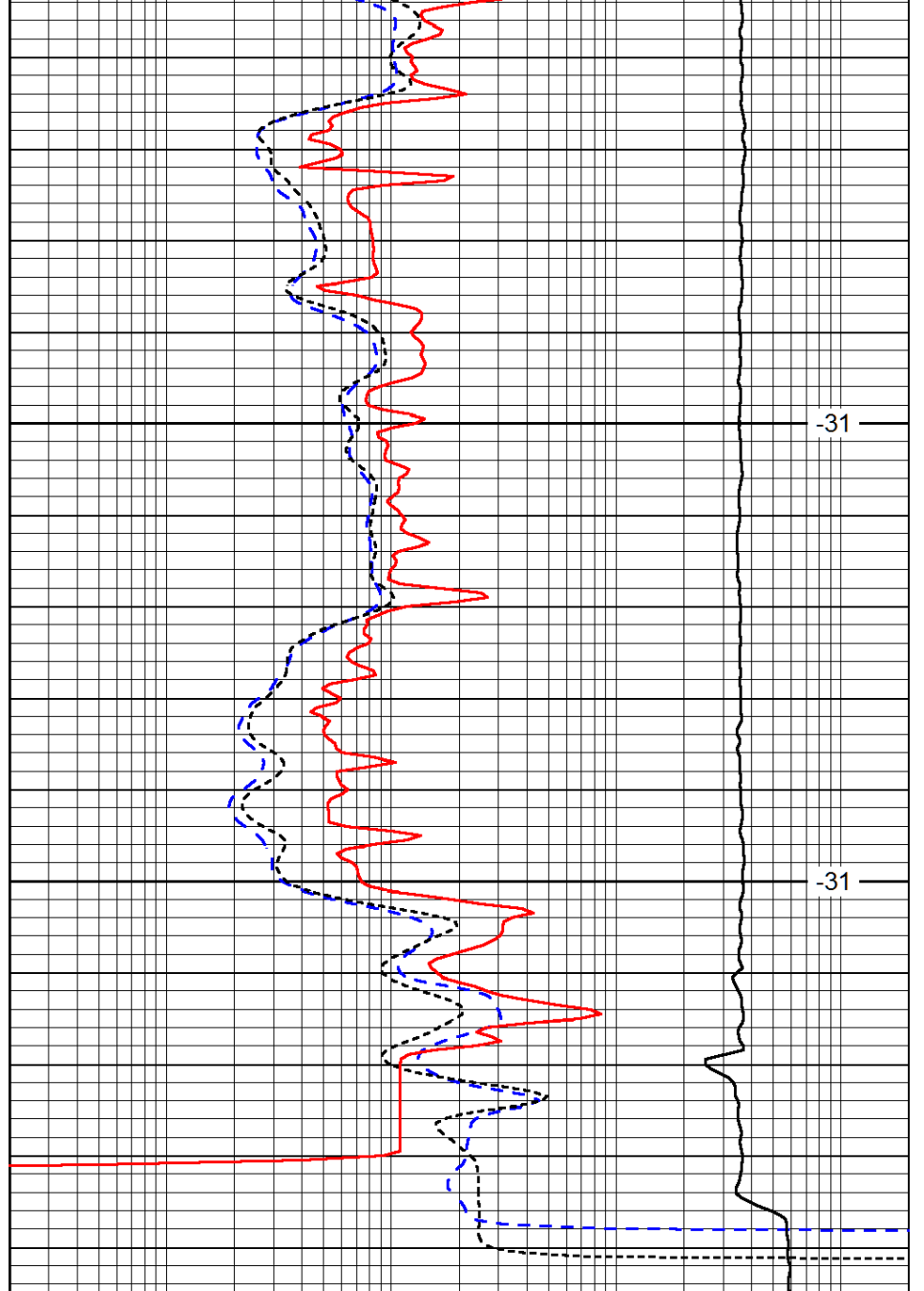
-31



4850

4900

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



-31

-31

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)