



Pioneer Energy Services

Dual Induction Log

Company **Murfin Drilling Company, Inc.**

Well **JTT #1-24**

Field **Wildcat**

County **Stafford**

State

Kansas

Location
**W2 NE NW NE
 330' FNL / 1700' FEL**

Sec: **24**

Twp: **23S**

Rge: **12W**

Other Services
 CNL/CDL
 MEL/BHCS

Elevation

Permanent Datum **Ground Level** Elevation **1848**
 Log Measured From **Kelly Bushing** 9 Ft. Above Perm. Datum
 Drilling Measured From **Kelly Bushing**

K.B. 1857
 D.F. G.L. 1848

15-185-23887-00-00

| | |
|------------------------|---------------|
| Date | 7/3/2014 |
| Run Number | One |
| Depth Driller | 3900 |
| Depth Logger | 3900 |
| Bottom Logged Interval | 3899 |
| Top Log Interval | 0 |
| Casing Driller | 8.625 @ 654 |
| Casing Logger | 648 |
| Bit Size | 7.875 |
| Type Fluid in Hole | Chemical |
| Salinity, ppm CL | 7300 |
| Density / Viscosity | 9.5 72 |
| pH / Fluid Loss | 11.0 8.4 |
| Source of Sample | Flowline |
| Rm @ Meas. Temp | 0.20 @ 72 |
| Rmf @ Meas. Temp | 0.15 @ 72 |
| Rmc @ Meas. Temp | 0.27 @ 72 |
| Source of Rmf / Rmc | Charts |
| Rm @ BHT | 0.14 @ 115 |
| Operating Rig Time | 4 Hours |
| Max Rec. Temp. F | 115 |
| Equipment Number | 17 |
| Location | Hays |
| Recorded By | R. Barnhart |
| Witnessed By | Chuck Schmalz |

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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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 (785) 625-3858

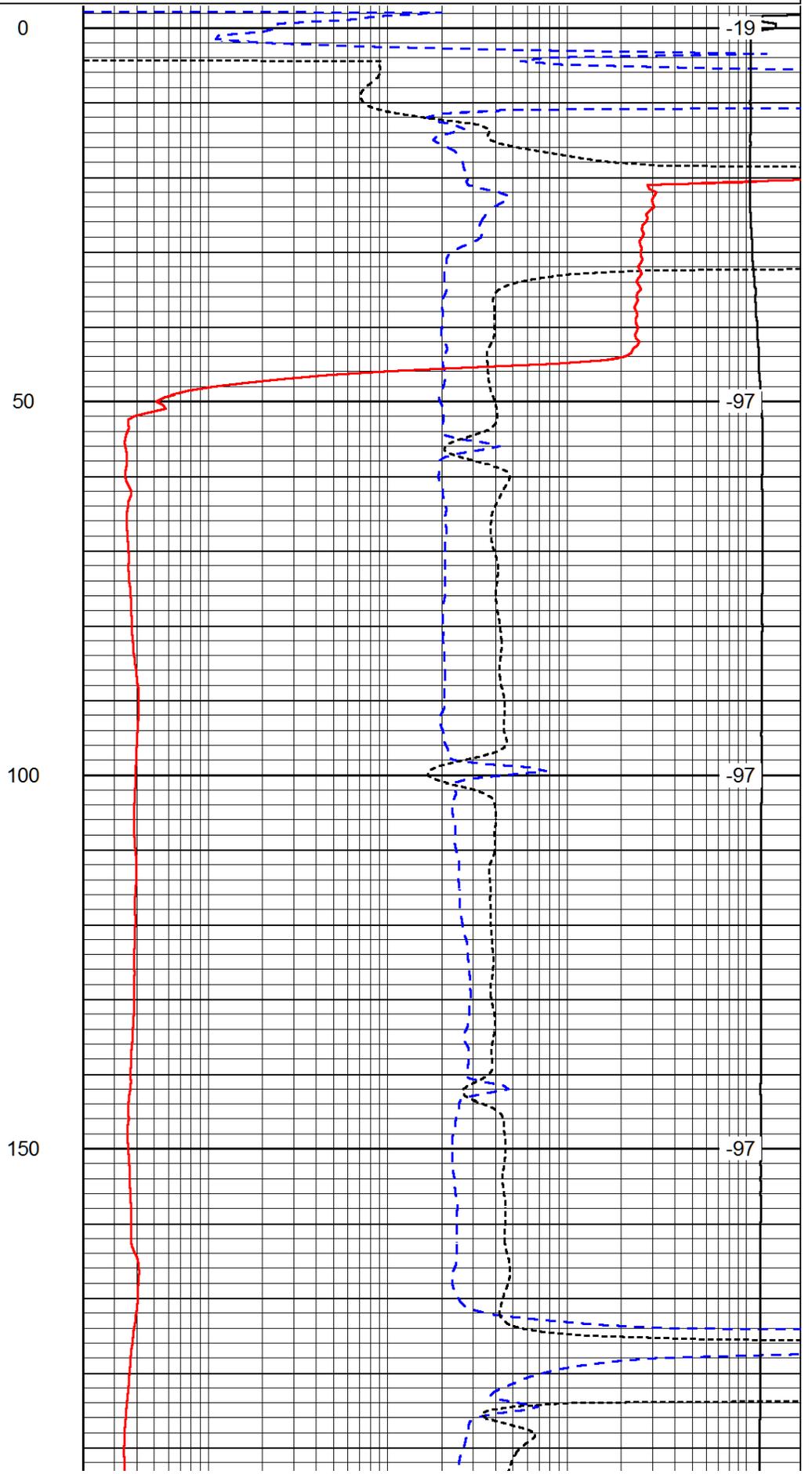
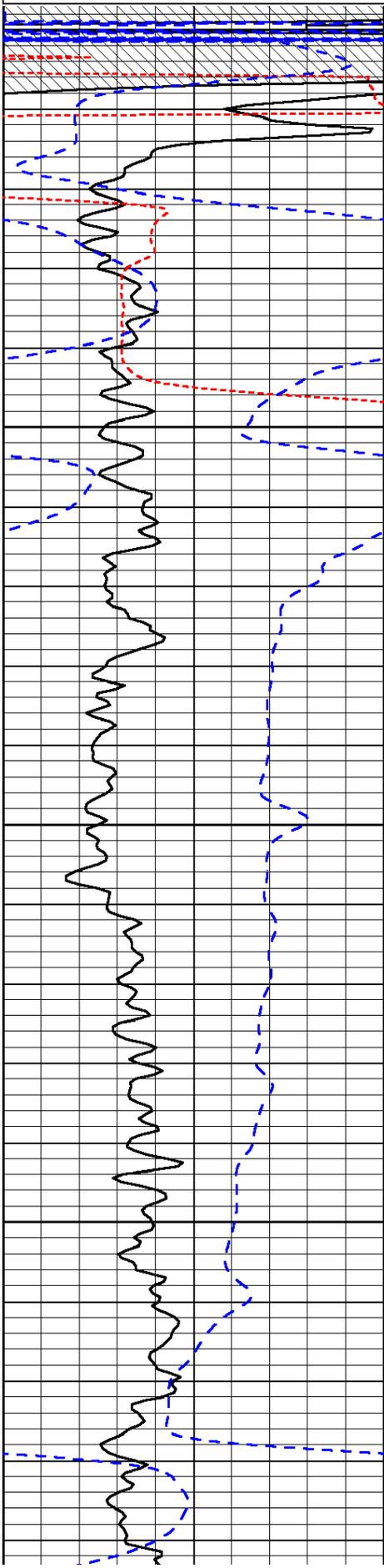
St. John, KS:
 N to NE 70, E to Stafford Blktop, 1S, 1/2E, S into

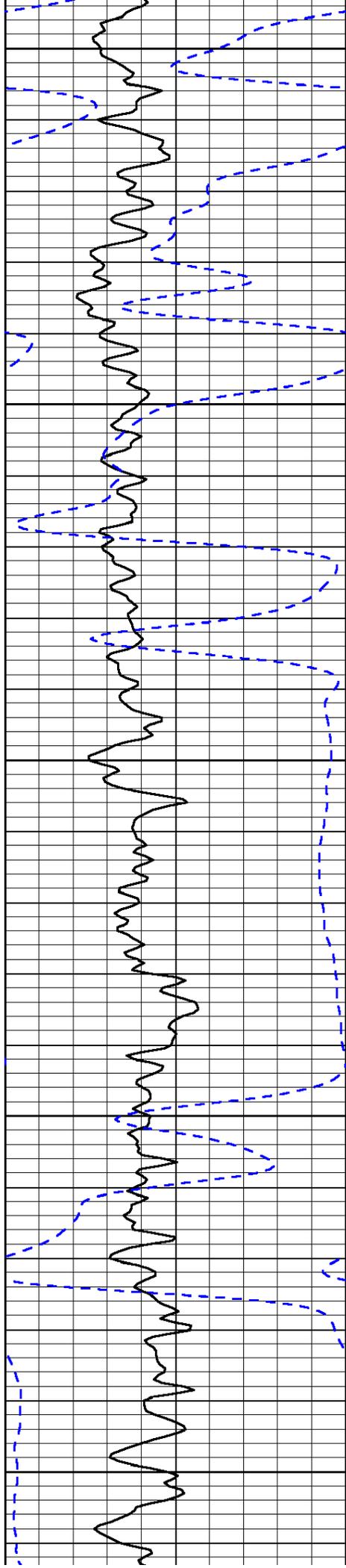
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 Presentation Format: dil
 Dataset Creation: Thu Jul 03 20:28:20 2014
 Charted by: Depth in Feet scaled 1:240

| | | |
|------|-----------|-----|
| 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





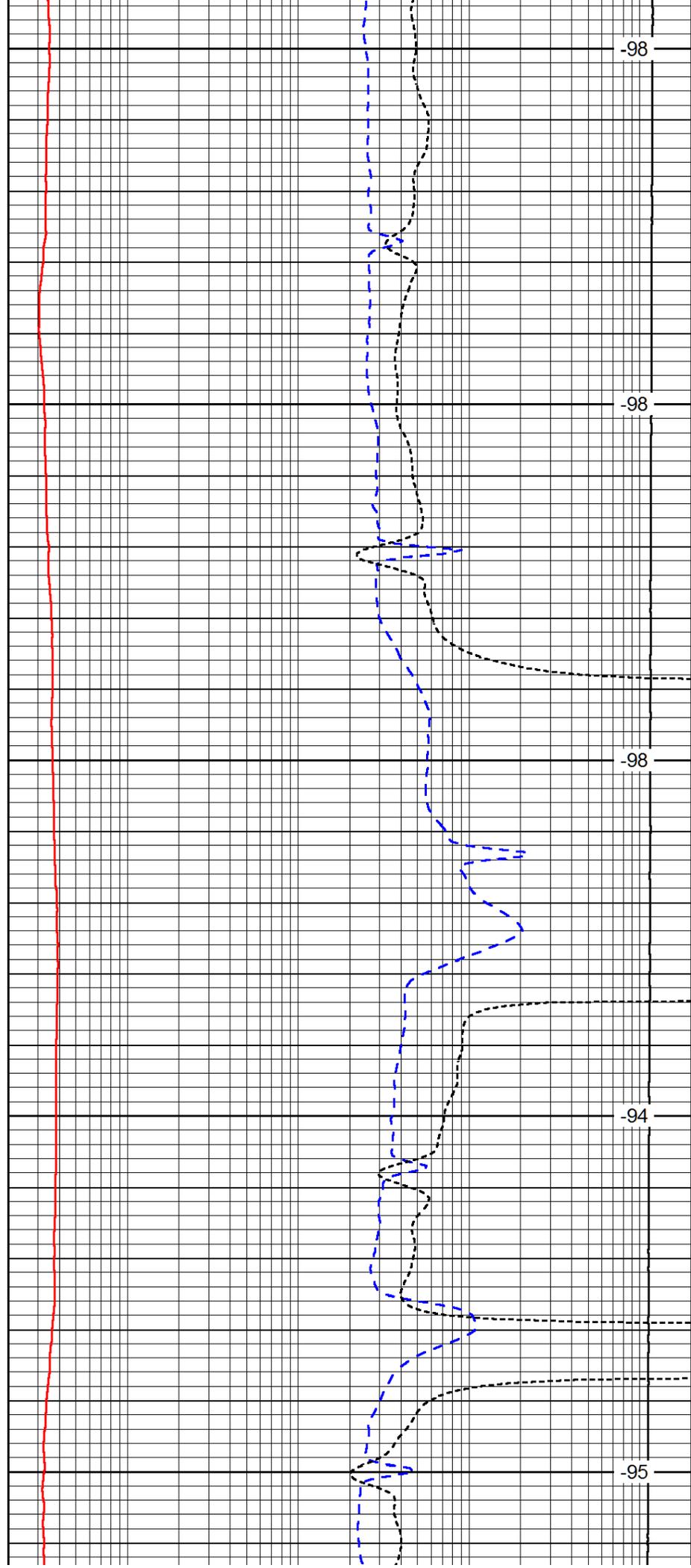
200

250

300

350

400



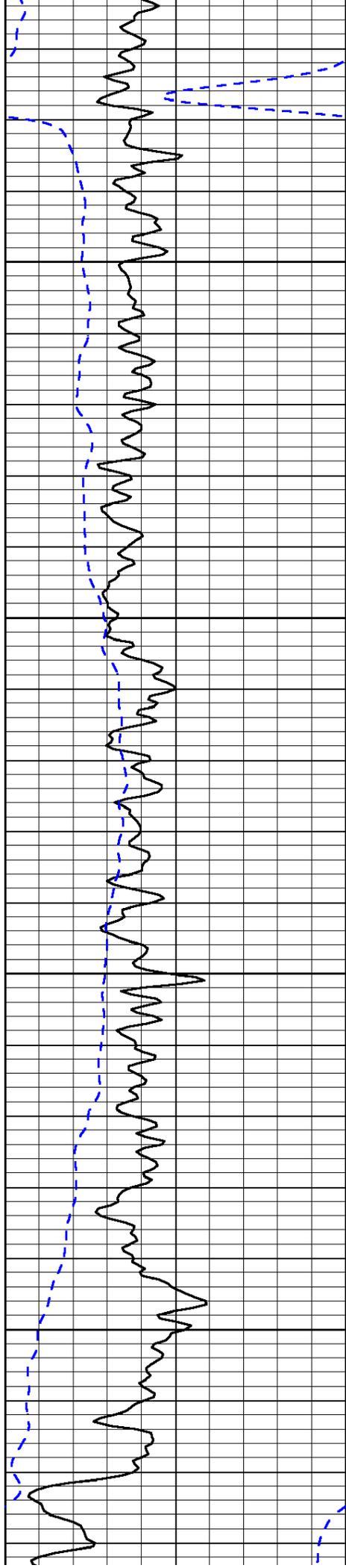
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-95

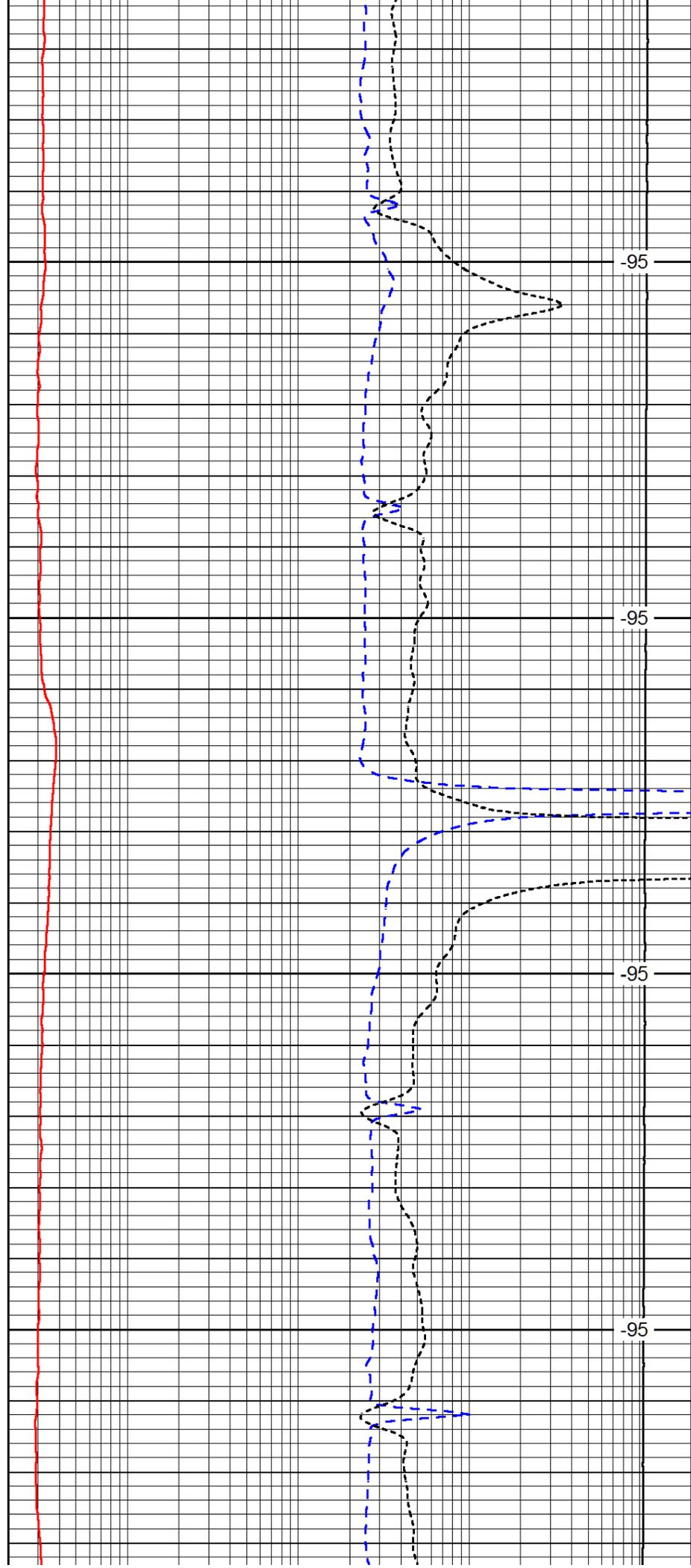


450

500

550

600

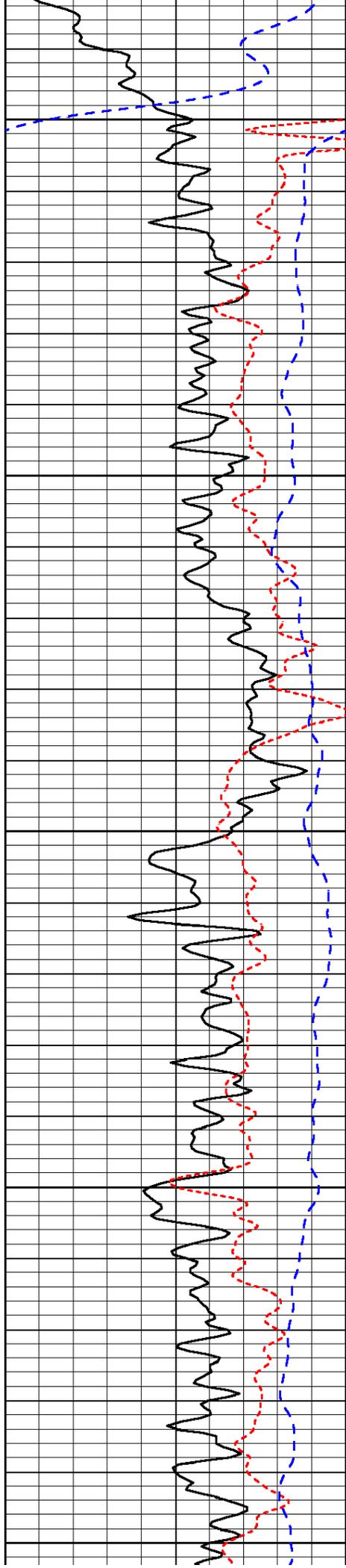


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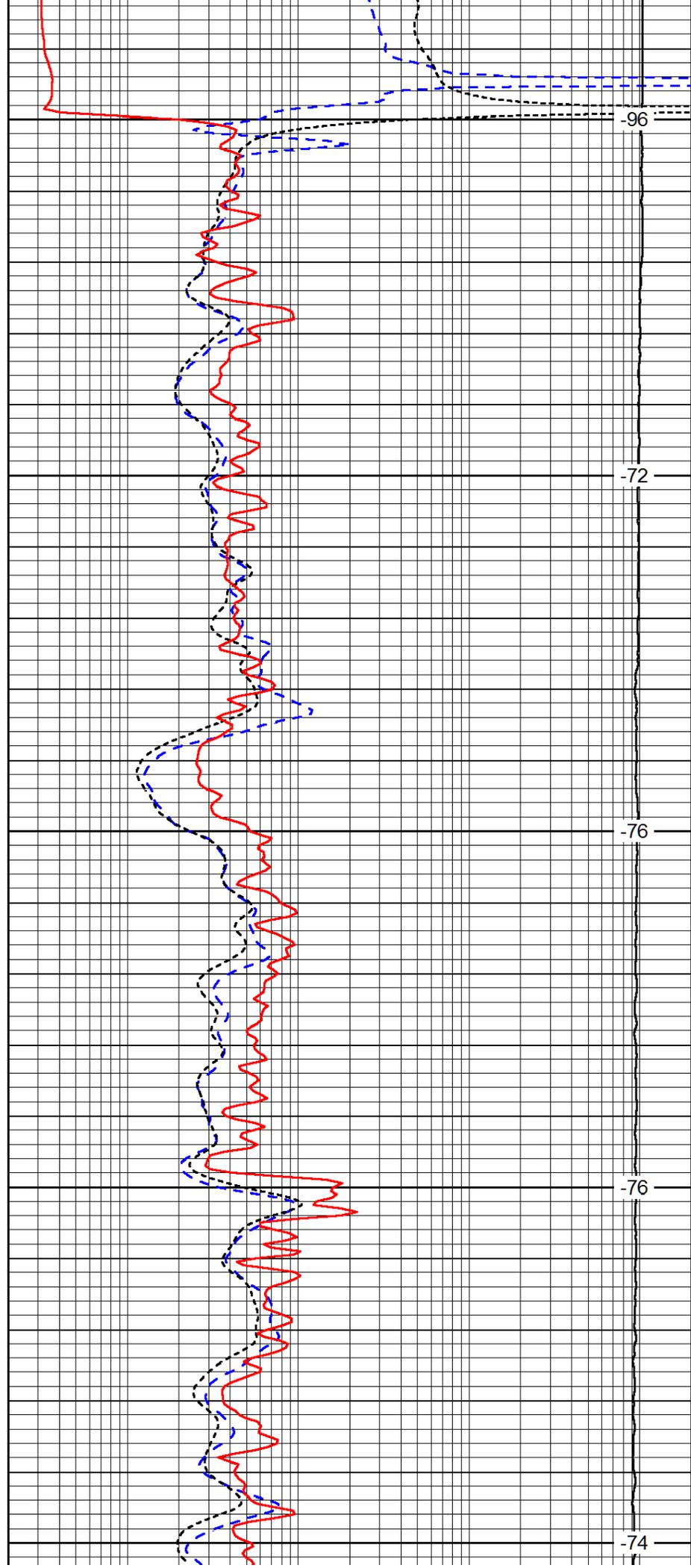
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700

750

800

850



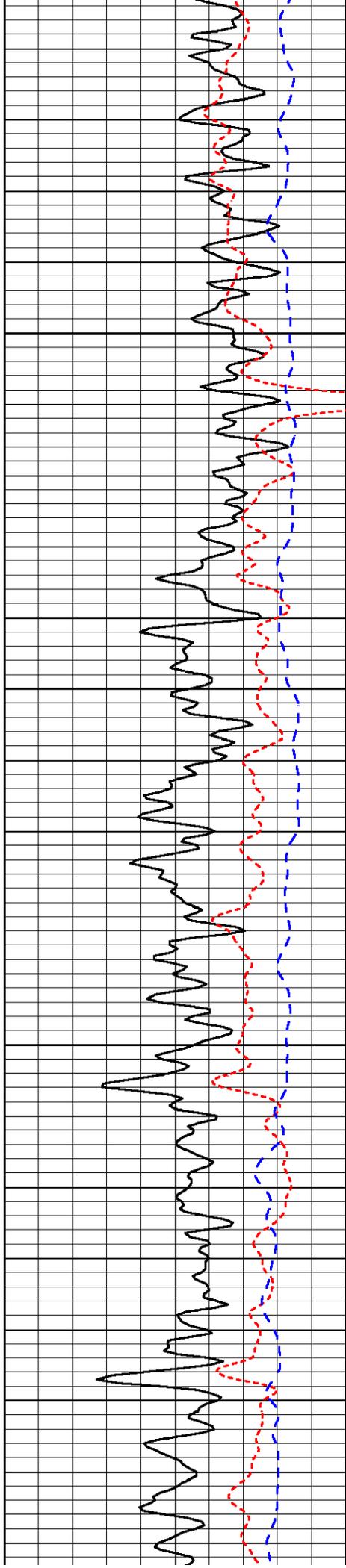
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-76

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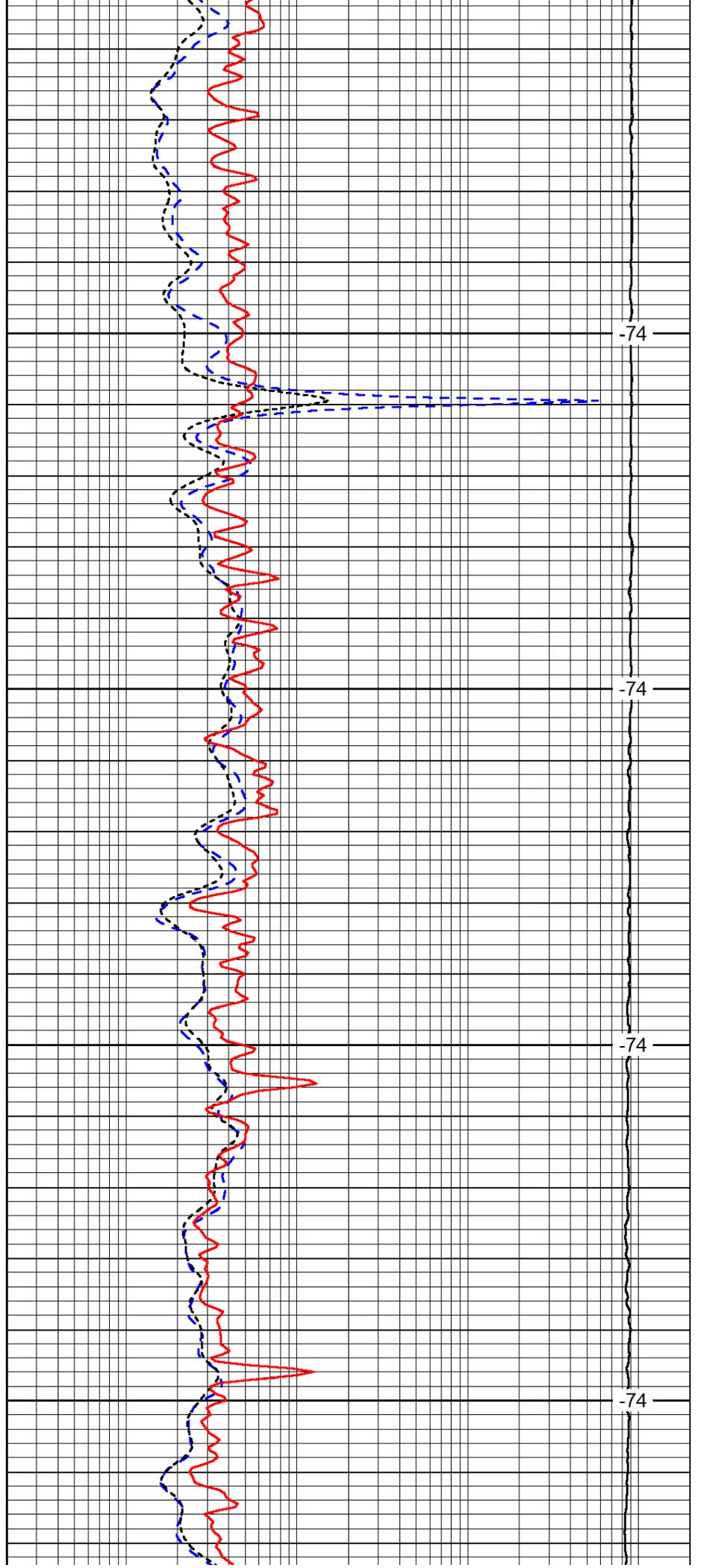


900

950

1000

1050

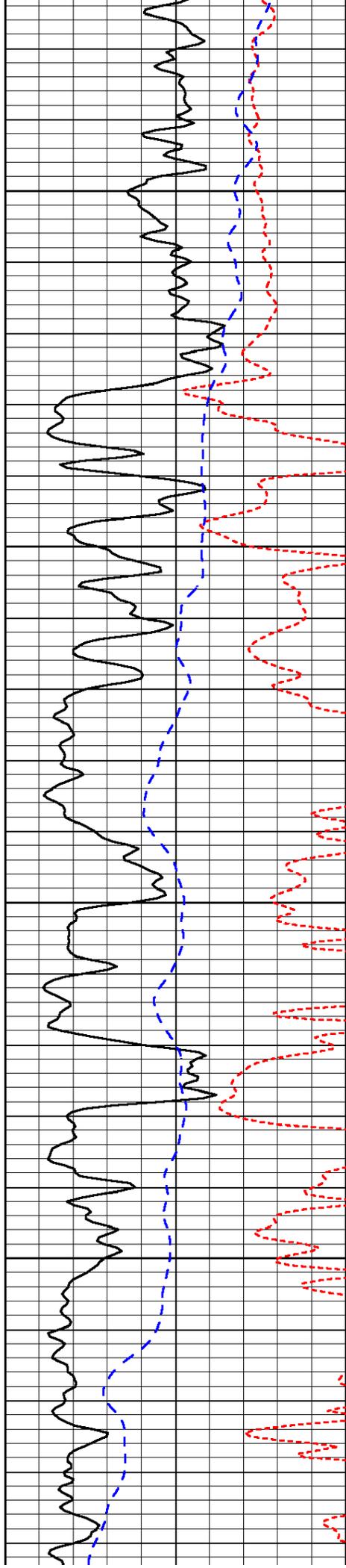


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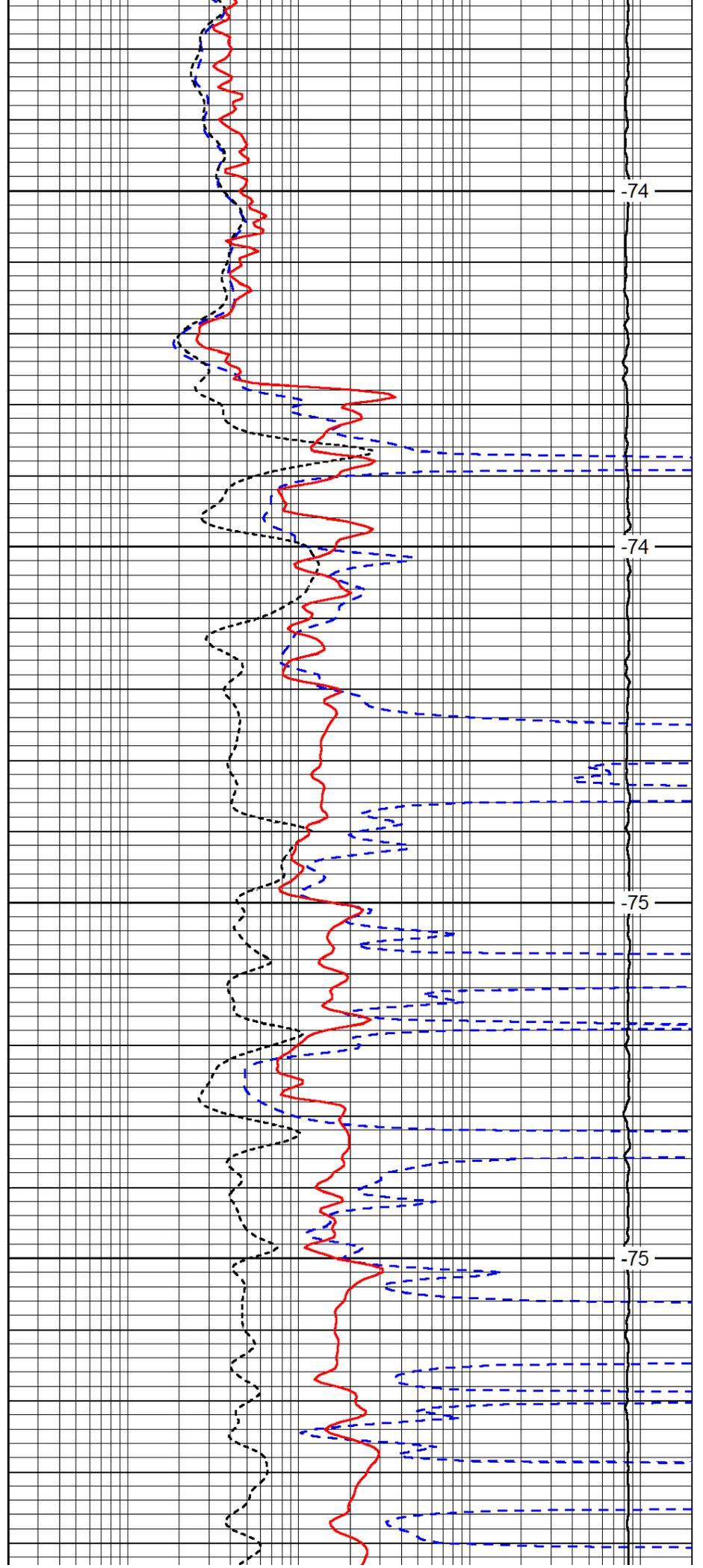


1100

1150

1200

1250

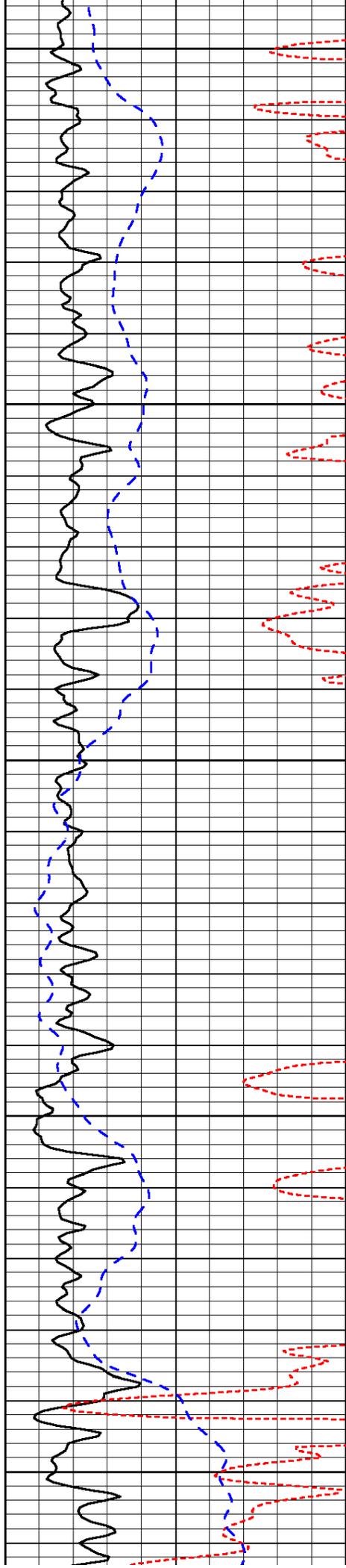


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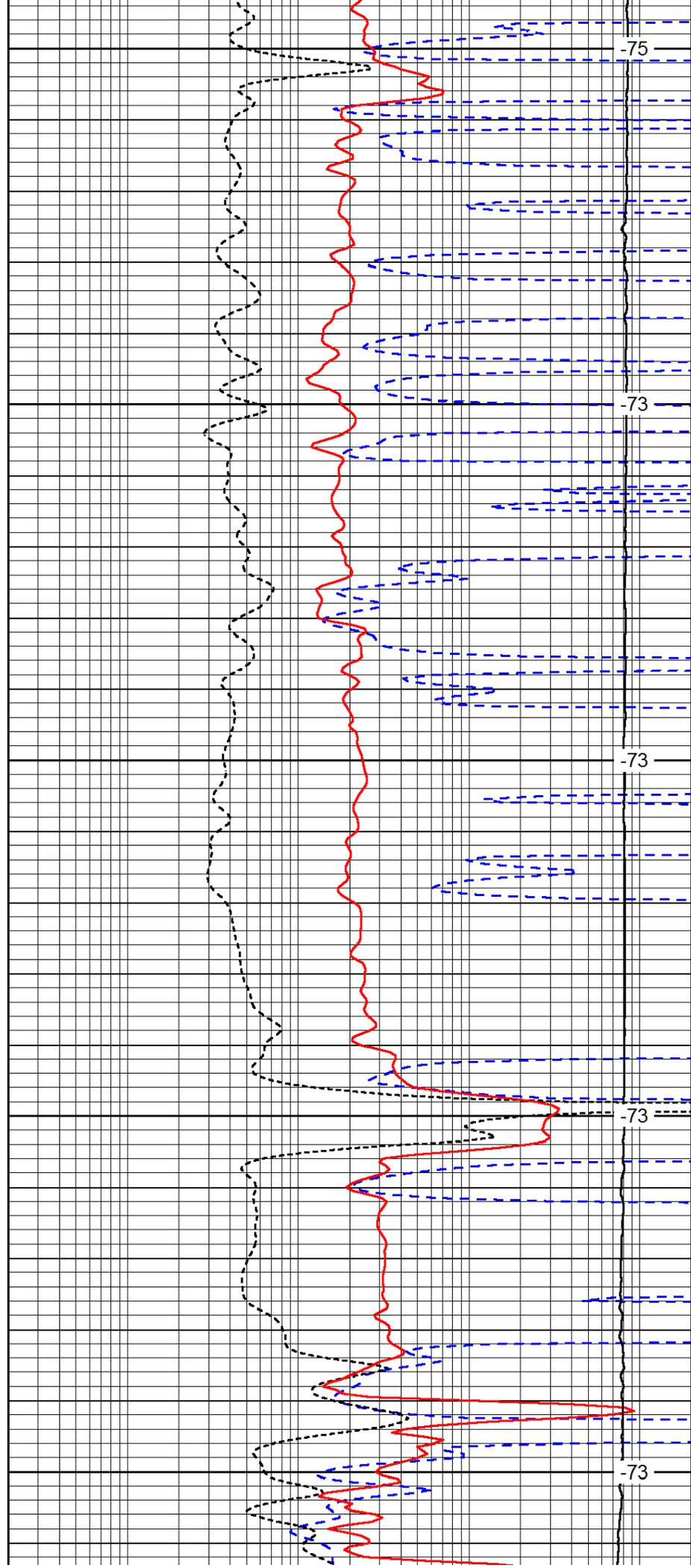
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1350

1400

1450

1500



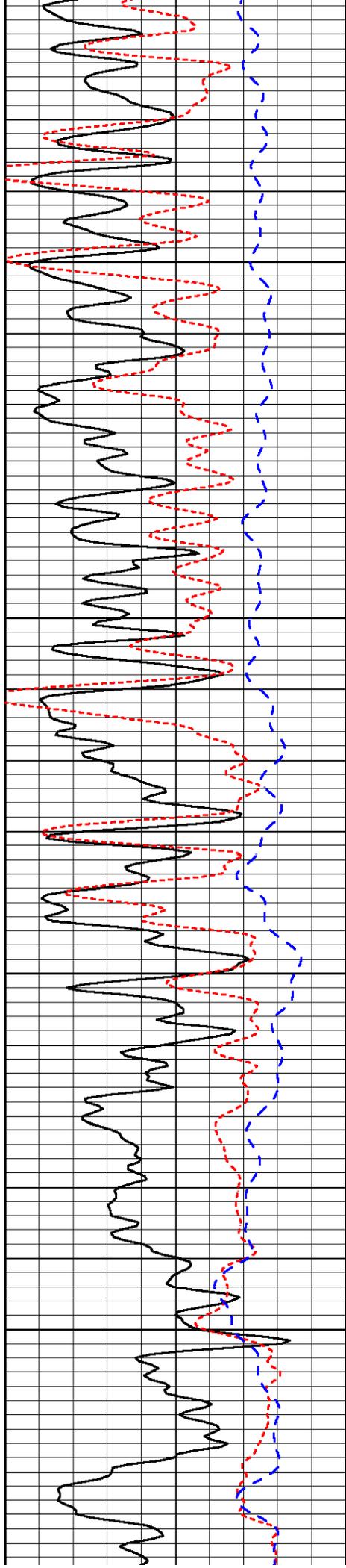
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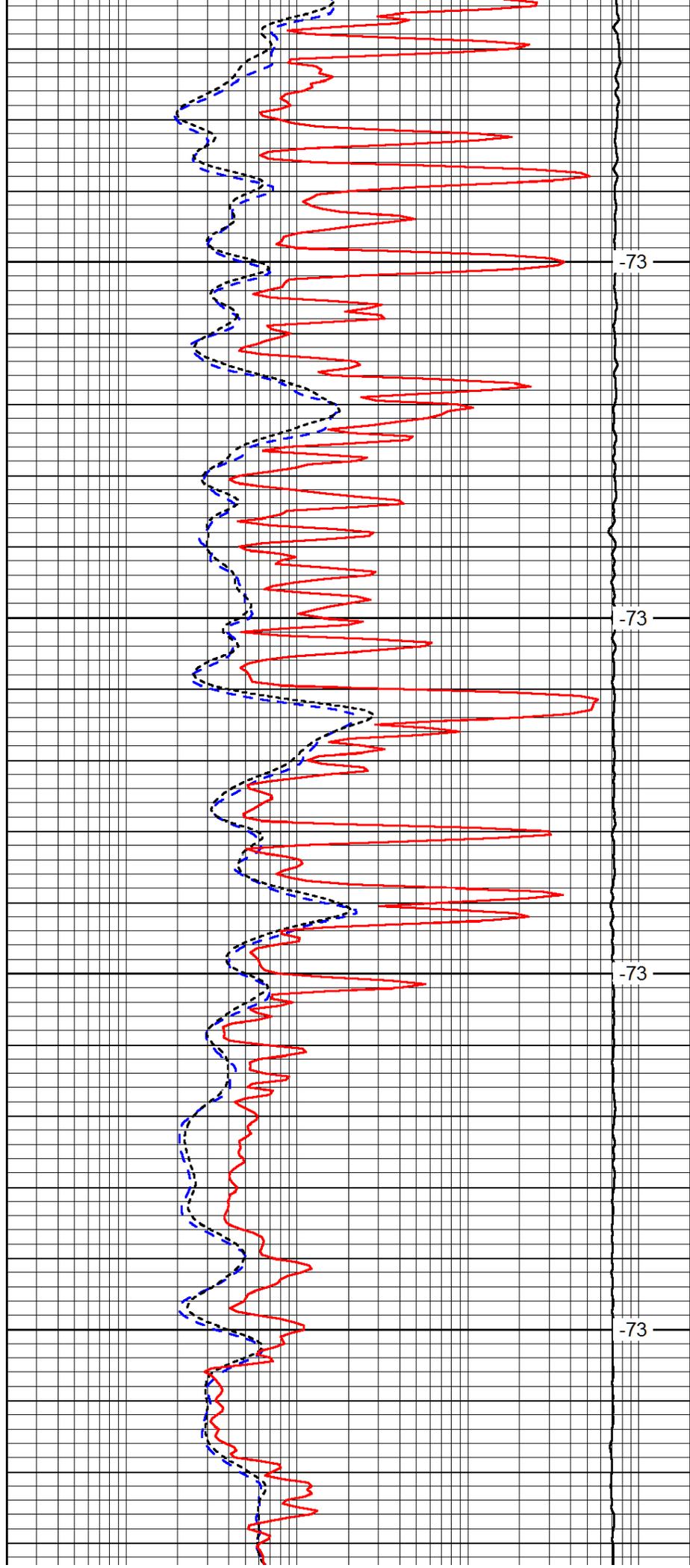


1550

1600

1650

1700

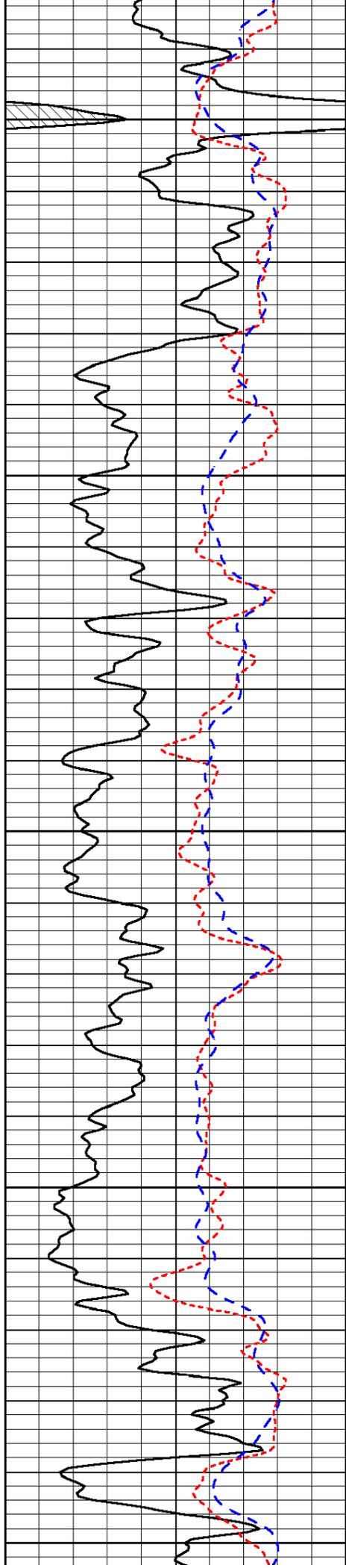


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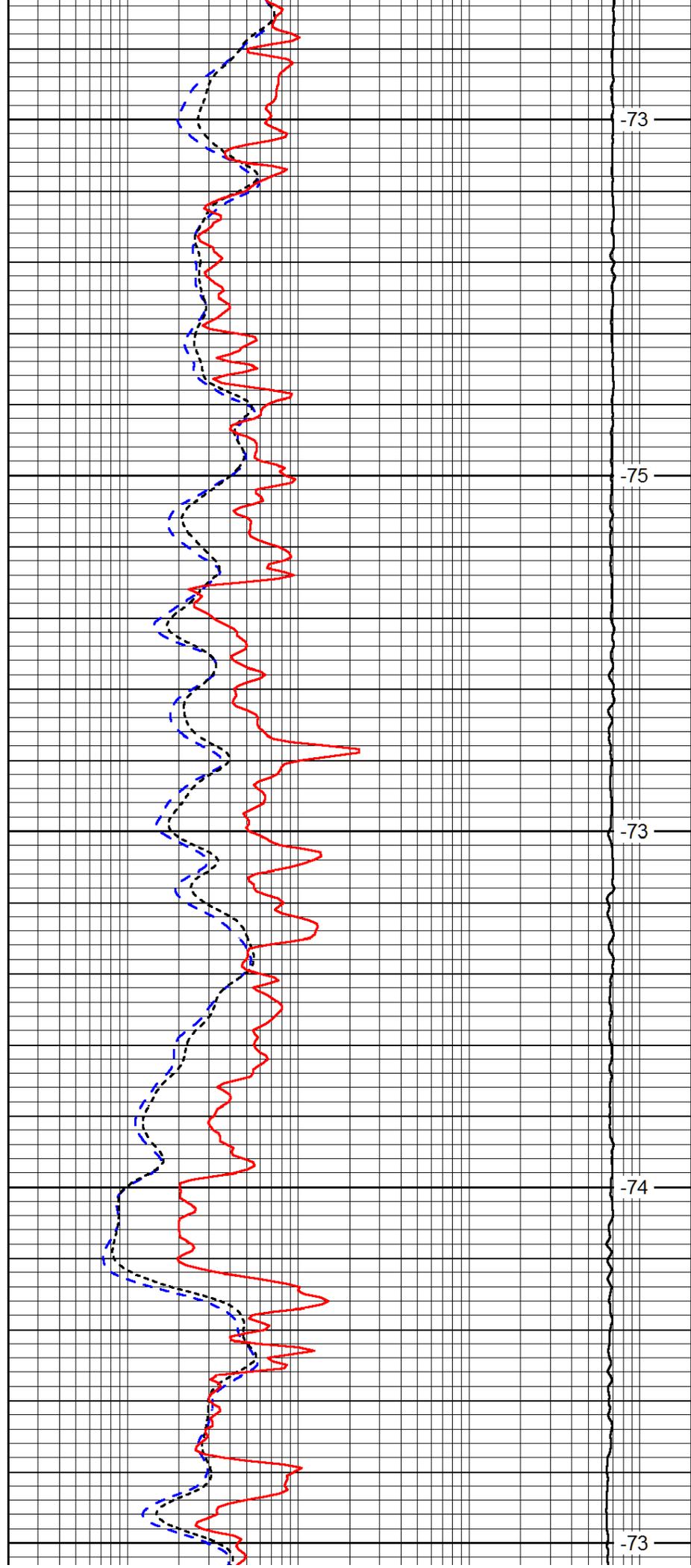
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1800

1850

1900

1950



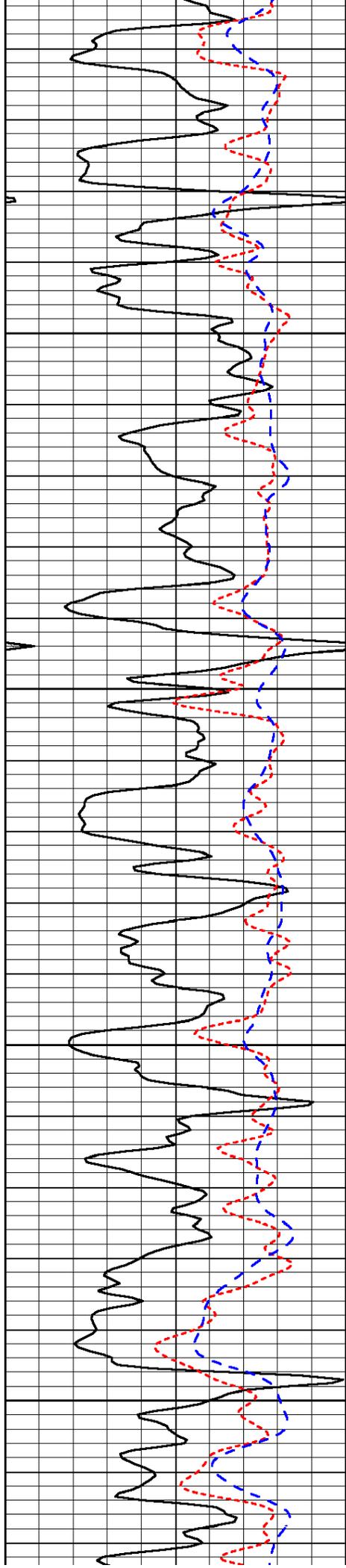
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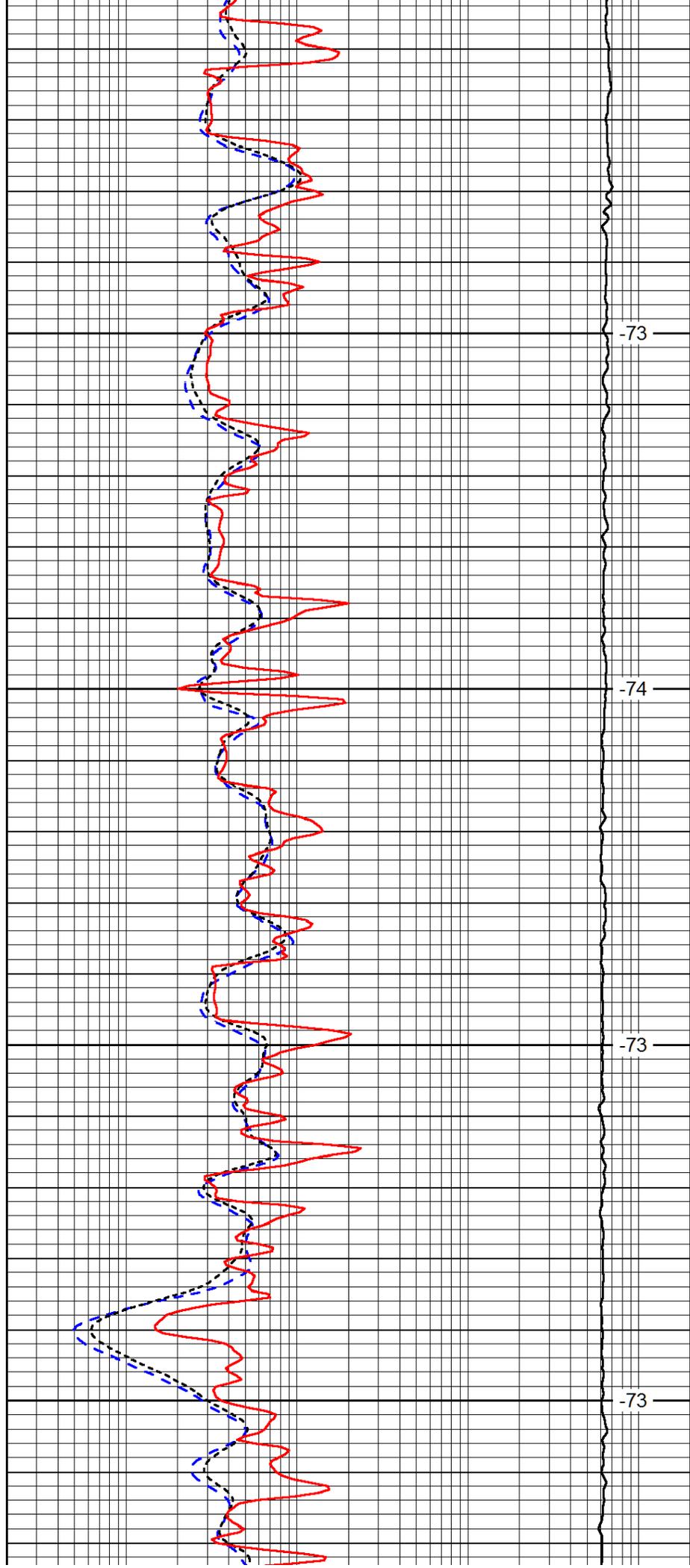


2000

2050

2100

2150

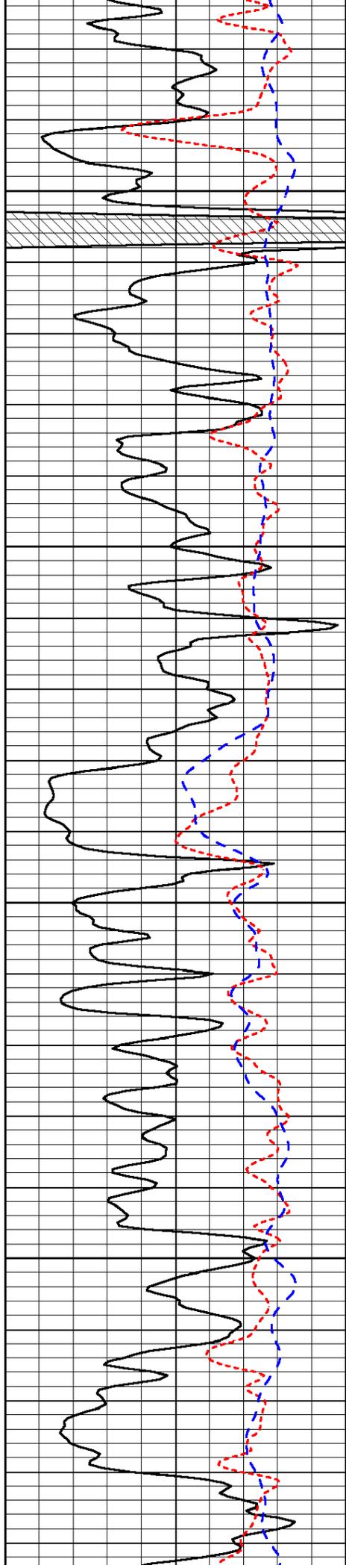


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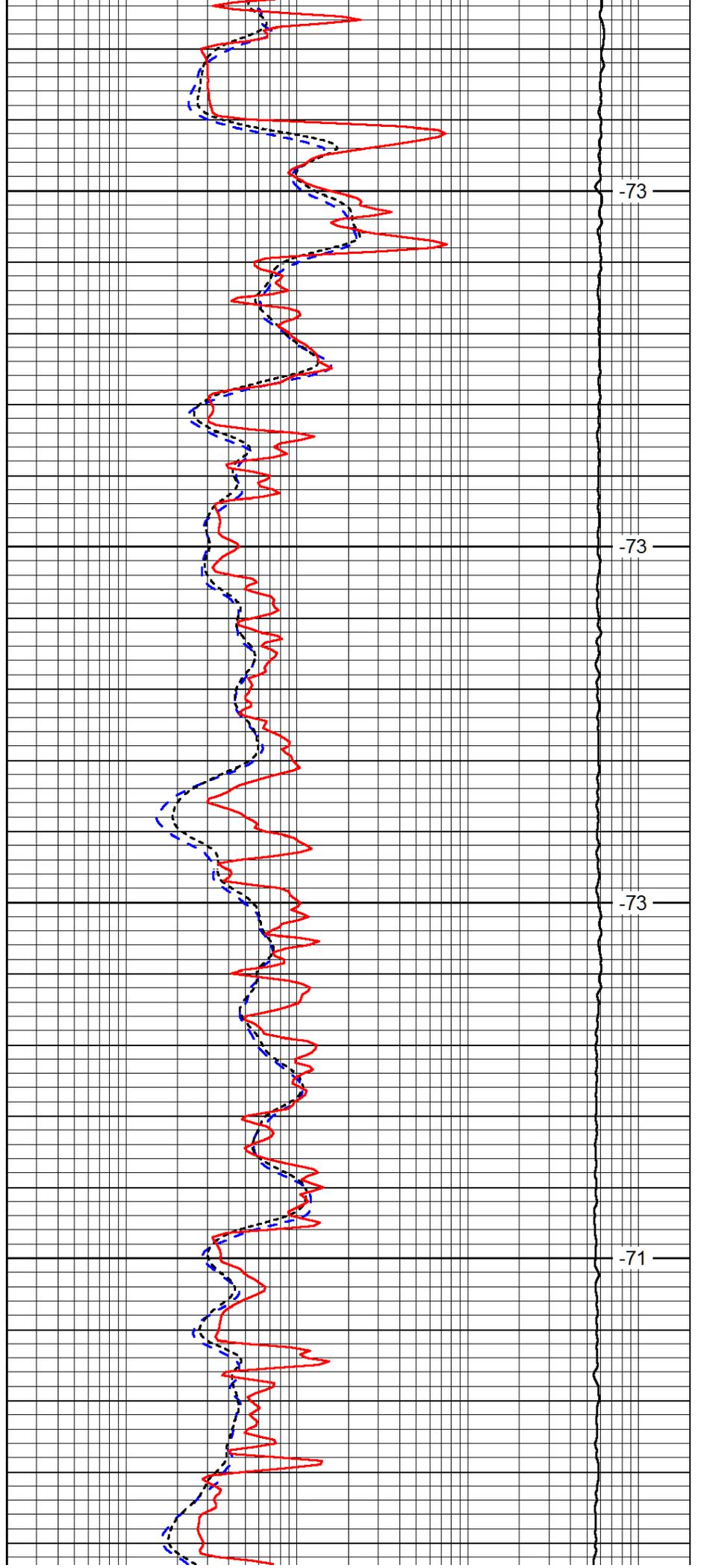


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2250

2300

2350

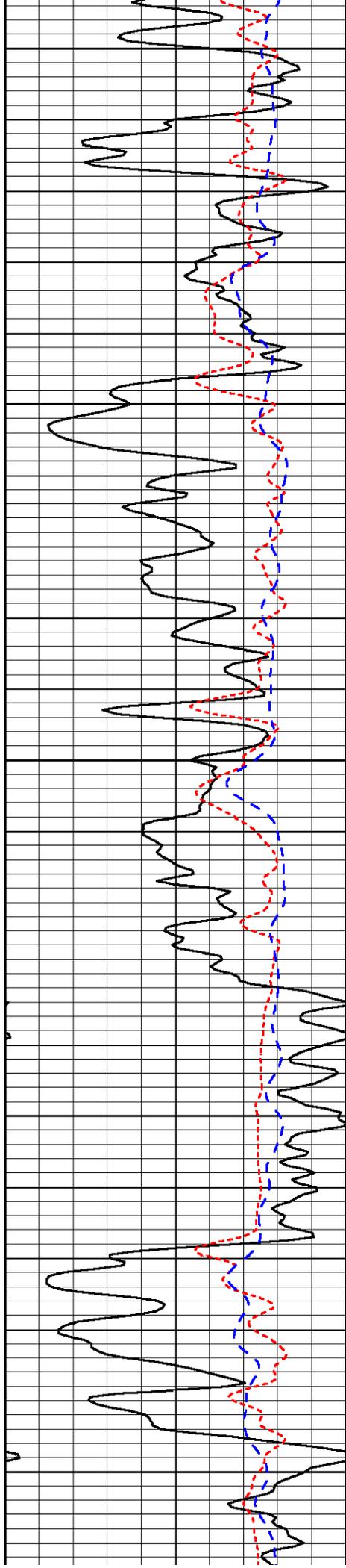


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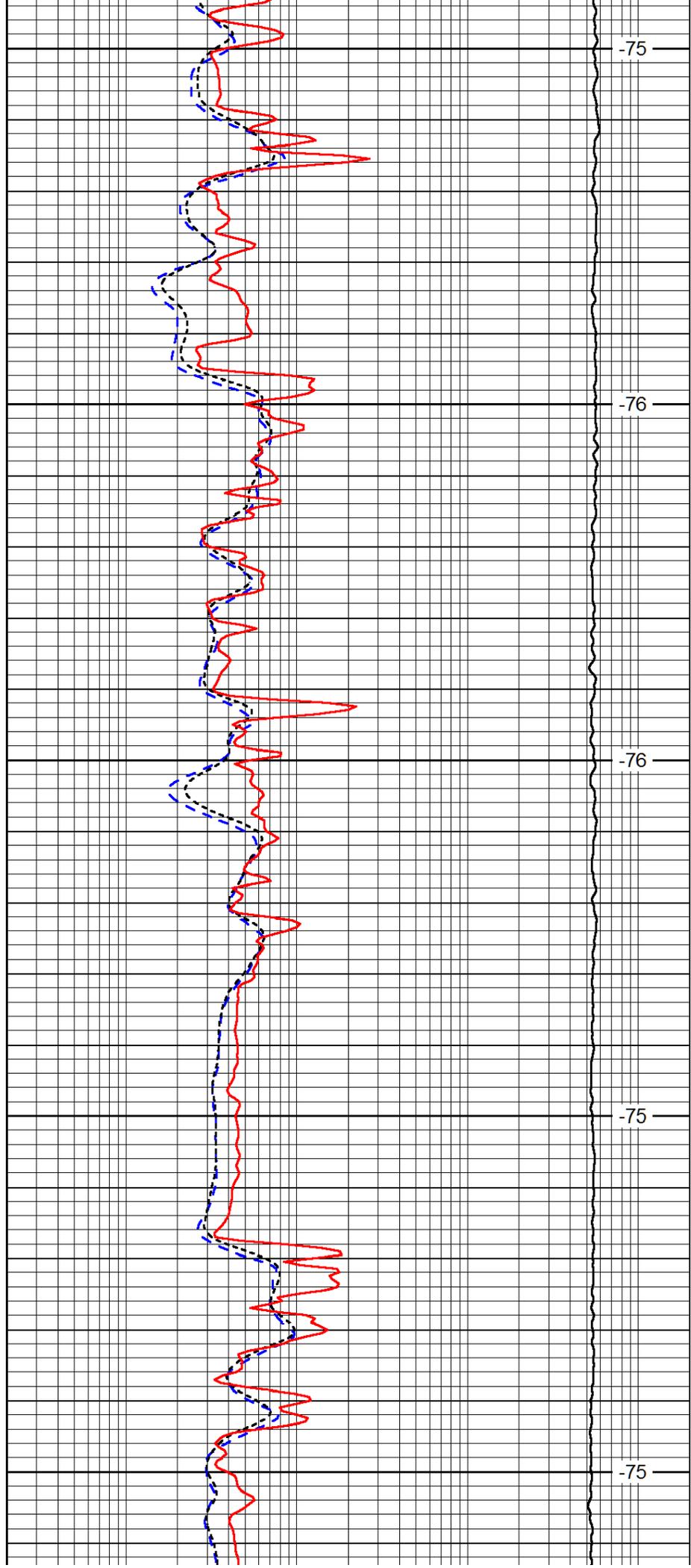
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2450

2500

2550

2600



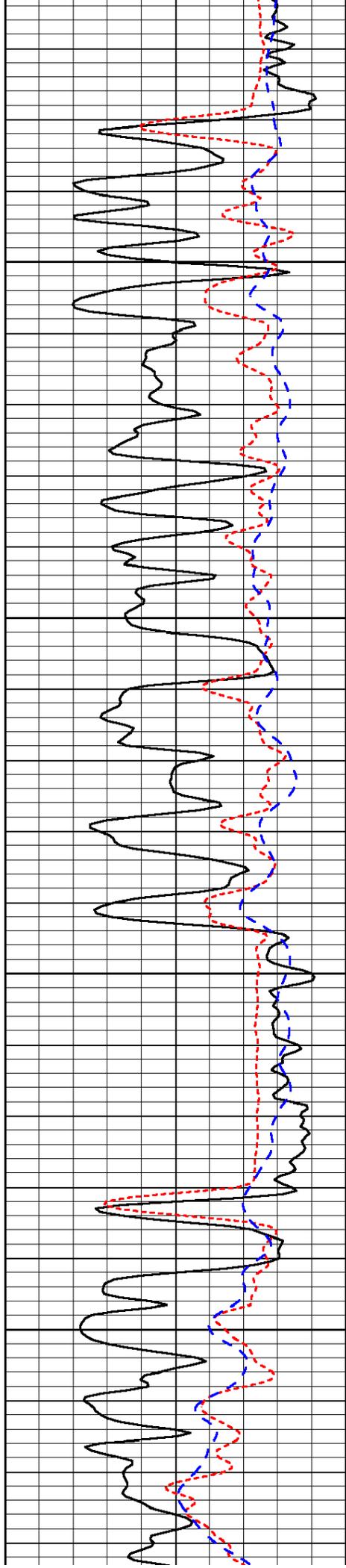
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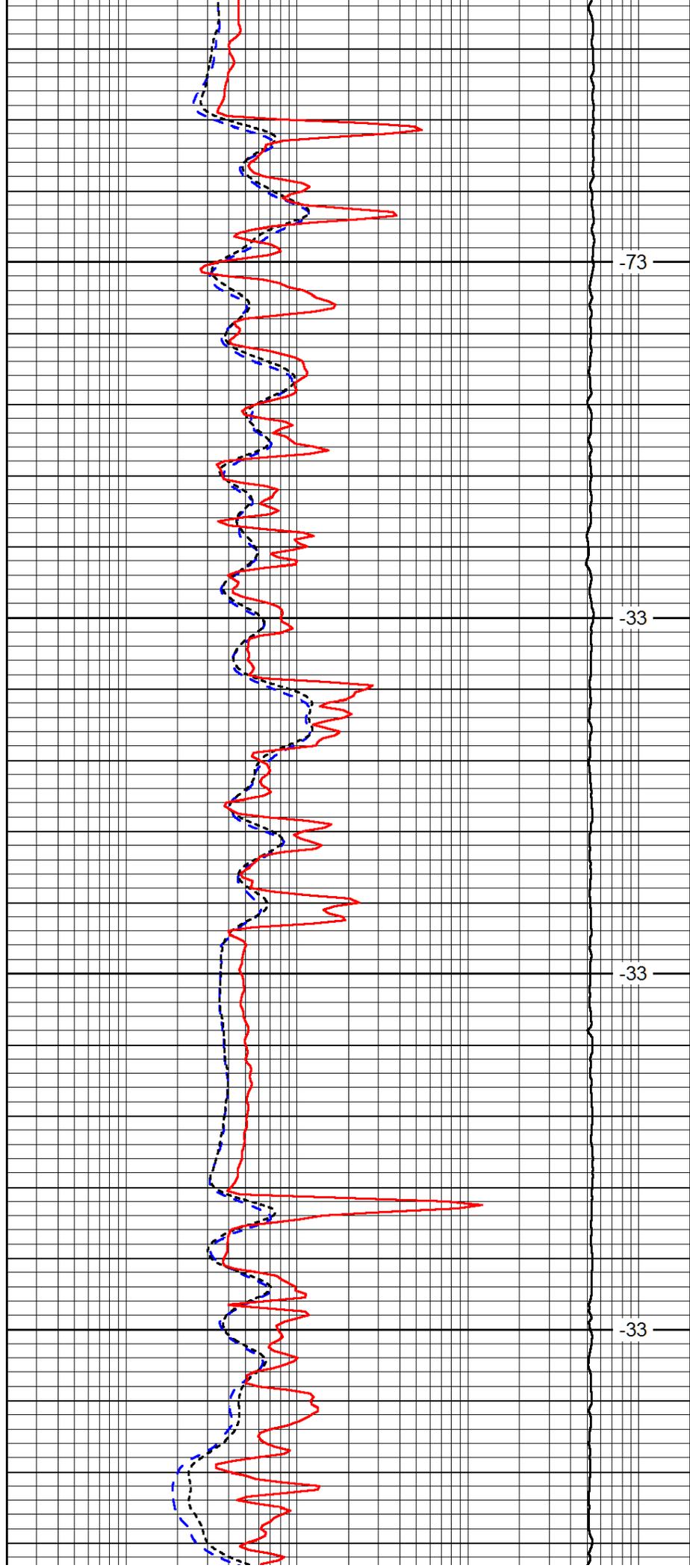


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2750

2800

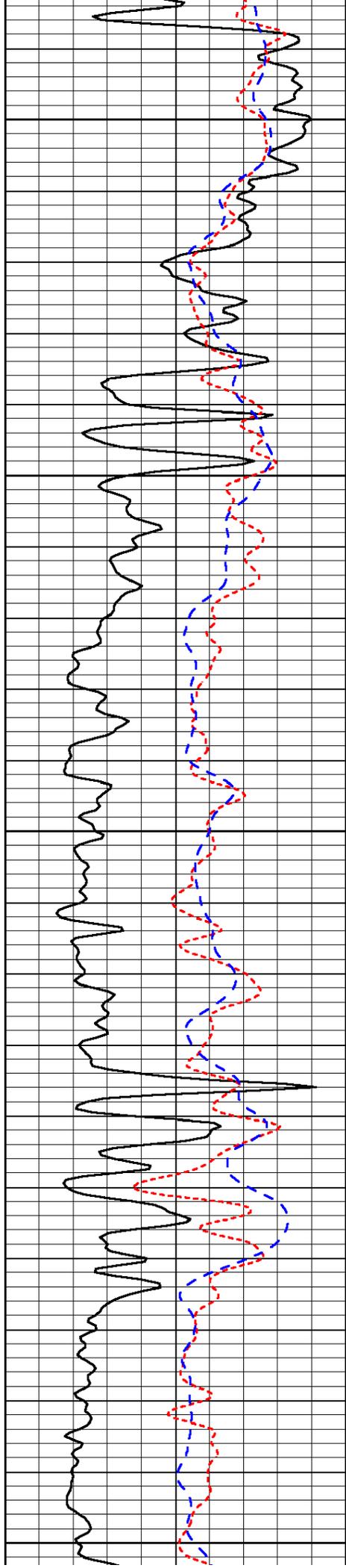


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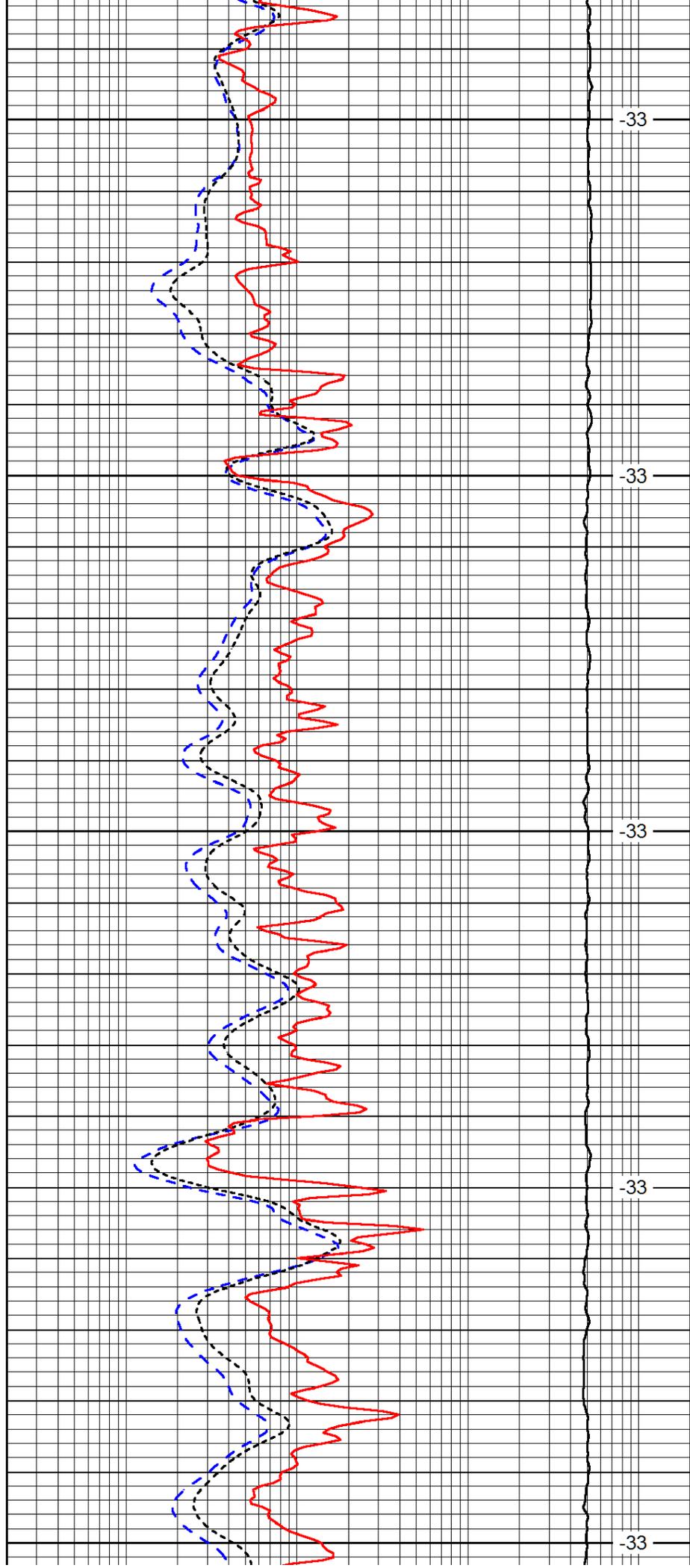
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2900

2950

3000

3050



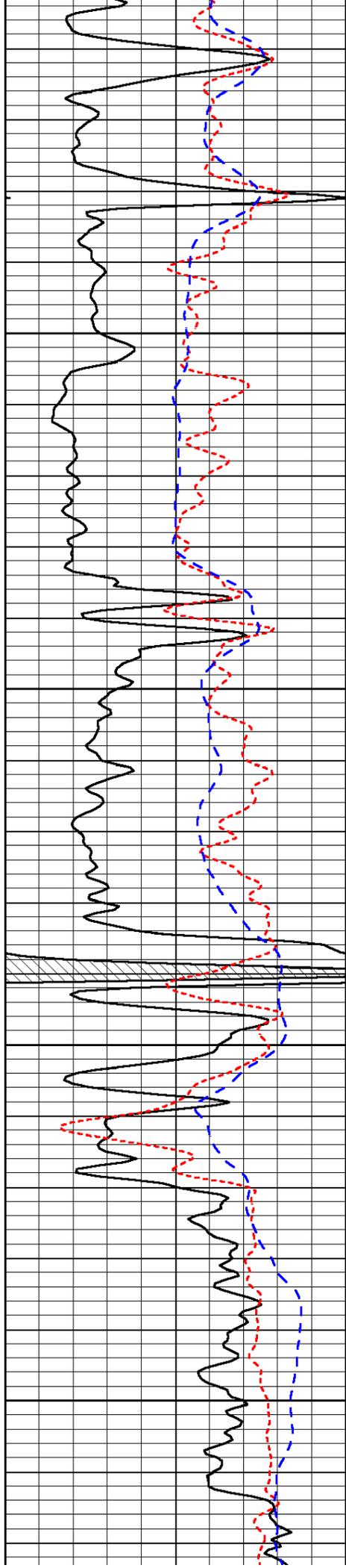
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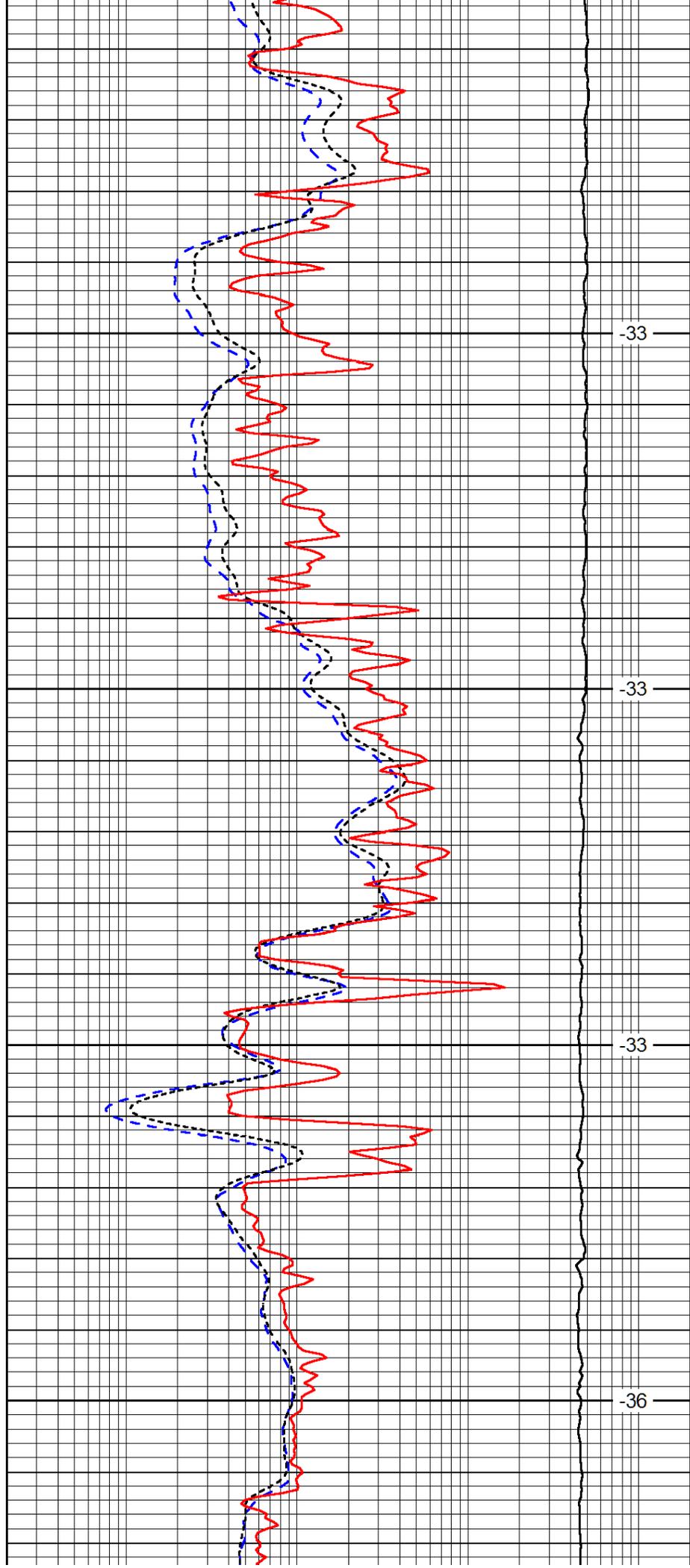


3100

3150

3200

3250

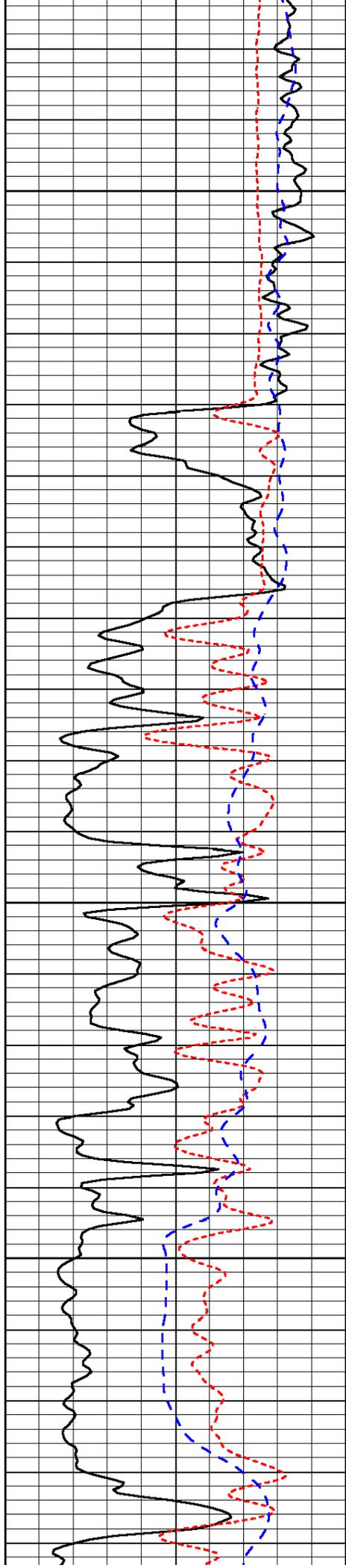


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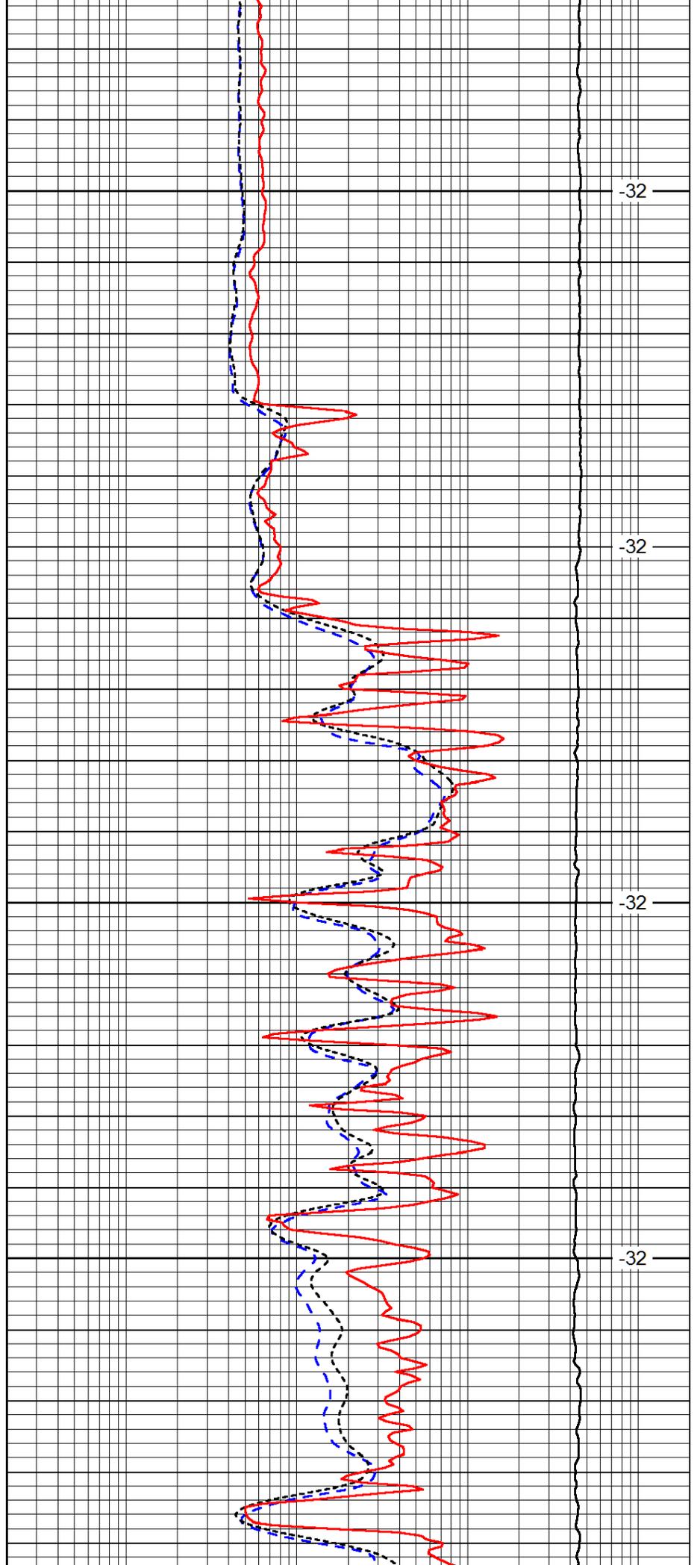


3300

3350

3400

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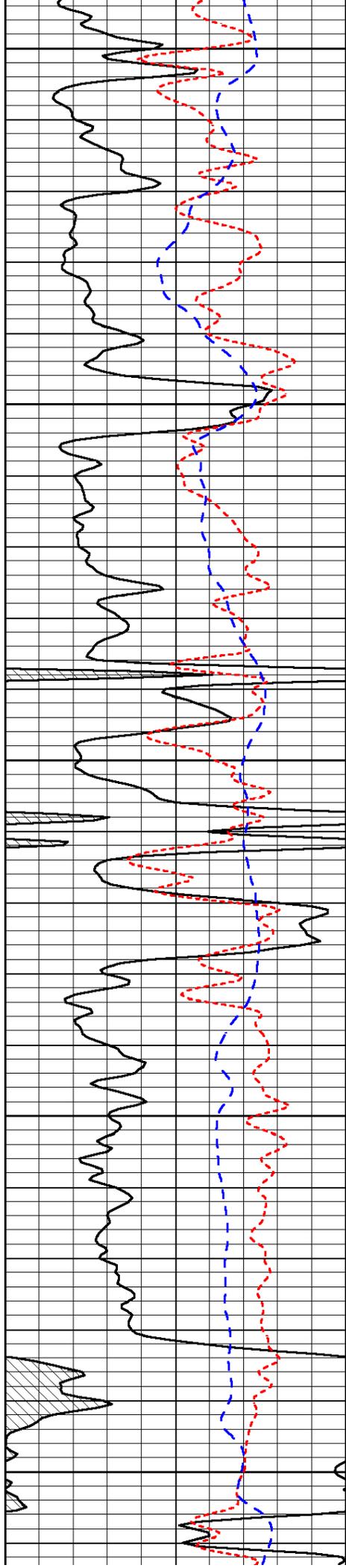


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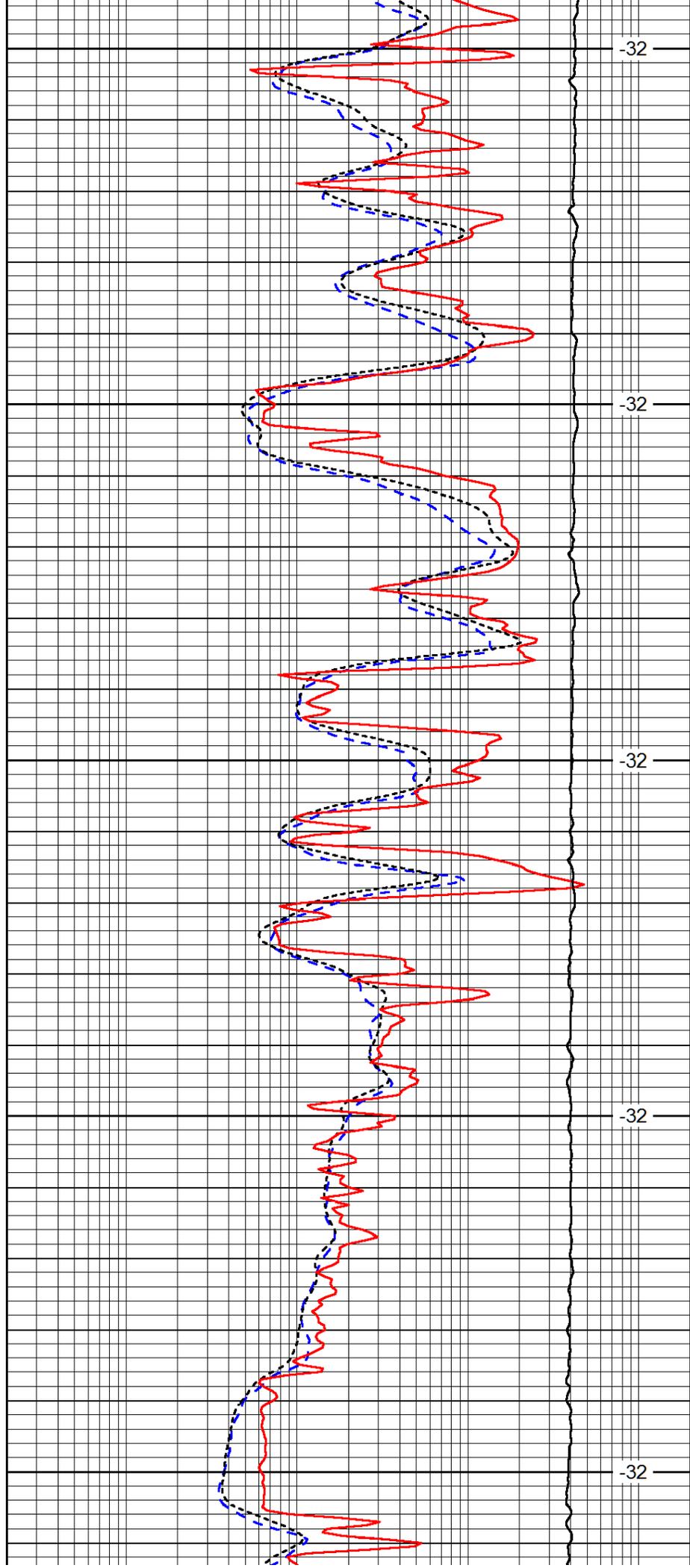
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3600

3650

3700



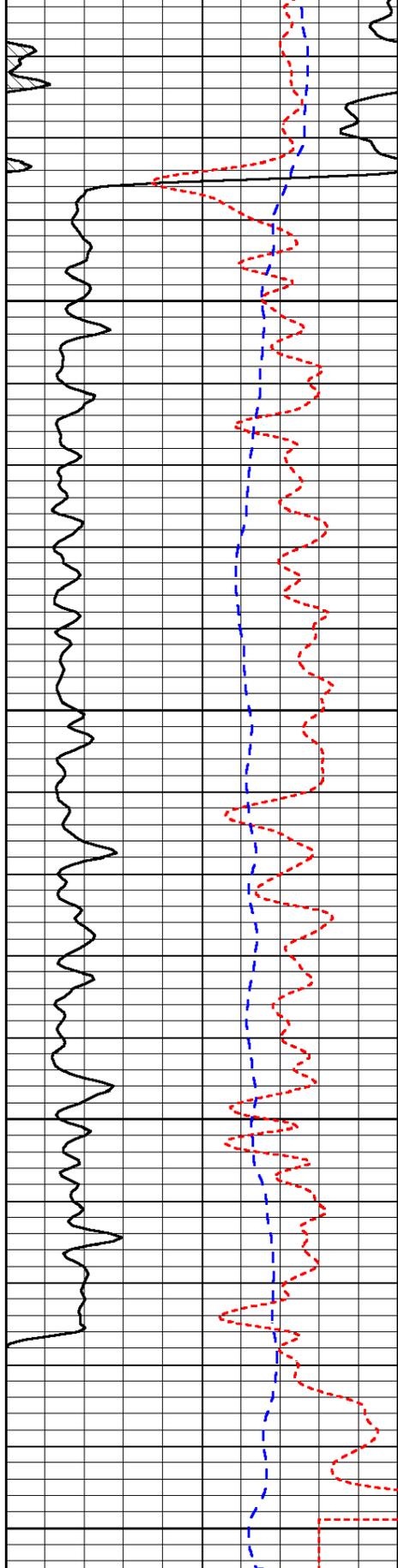
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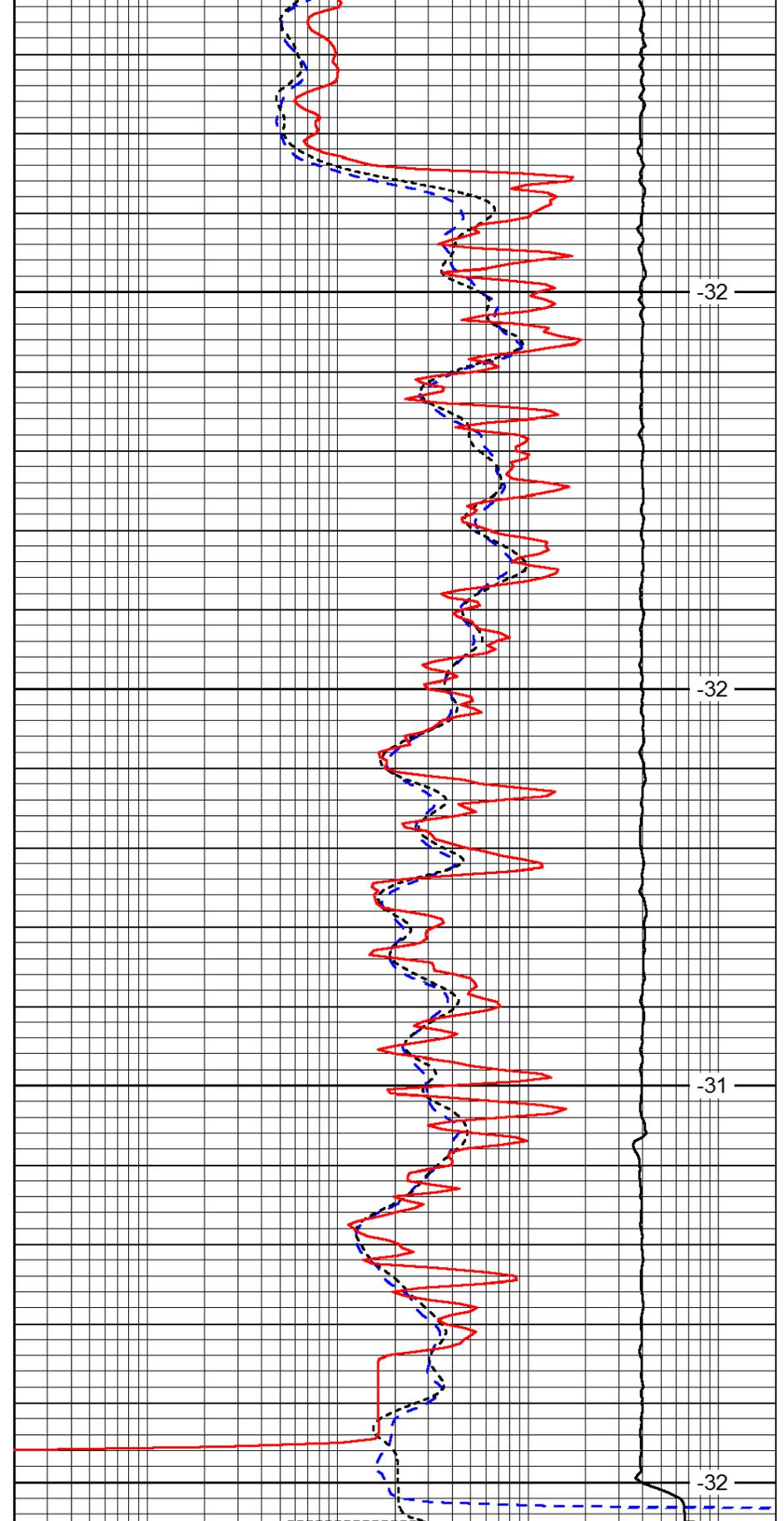
3750

3800

3850

3900

| | | |
|------|-----------|-----|
| 0 | Gamma Ray | 150 |
| -160 | RXO/RT | 40 |
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-32

-32

-31

-32

| | | |
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