



# Dual Induction Log

DIGITAL LOG (785) 625-3858

|                        |                               |                         |
|------------------------|-------------------------------|-------------------------|
| API No.                | 15-153-20,875-00-00           |                         |
| Company                | Murfin Drilling Company, Inc. |                         |
| Well                   | Sutton No. 2-8                |                         |
| Field                  | Wildcat                       |                         |
| County                 | Rawlins                       | State Kansas            |
| Location               | 2600' FSL & 600' FWL          |                         |
| Sec: 8                 | Twp: 1S                       | Rge: 35W                |
| Permanent Datum        | Ground Level                  | Elevation 3225          |
| Log Measured From      | Kelly Bushing                 | 5 Ft. Above Perm. Datum |
| Drilling Measured From | Kelly Bushing                 | K.B. 3230               |
|                        |                               | D.F. 3225               |
|                        |                               | G.L. 3225               |

|                        |                 |     |
|------------------------|-----------------|-----|
| Date                   | 03/11/2009      |     |
| Run Number             | One             |     |
| Depth Driller          | 4520            |     |
| Depth Logger           | 4523            |     |
| Bottom Logged Interval | 4522            |     |
| Top Log Interval       | 0               |     |
| Casing Driller         | 8.625 @ 290     |     |
| Casing Logger          | 289             |     |
| Bit Size               | 7.875           |     |
| Type Fluid in Hole     | Chemical        |     |
| Salinity, ppm CL       | 1,000           |     |
| Density / Viscosity    | 9.0             | 65  |
| pH / Fluid Loss        | 11.5            | 5.6 |
| Source of Sample       | Flowline        |     |
| Rm @ Meas. Temp        | 1.5 @ 55        |     |
| Rmf @ Meas. Temp       | 1.12 @ 55       |     |
| Rmc @ Meas. Temp       | 2.02 @ 55       |     |
| Source of Rmf / Rmc    | Charts          |     |
| Rm @ BHT               | .67 @ 123       |     |
| Operating Rig Time     | 5 Hours         |     |
| Max Rec. Temp. F       | 123             |     |
| Equipment Number       | 10              |     |
| Location               | Hays            |     |
| Recorded By            | Jason Wellbrock |     |
| Witnessed By           | Rocky Milford   |     |

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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

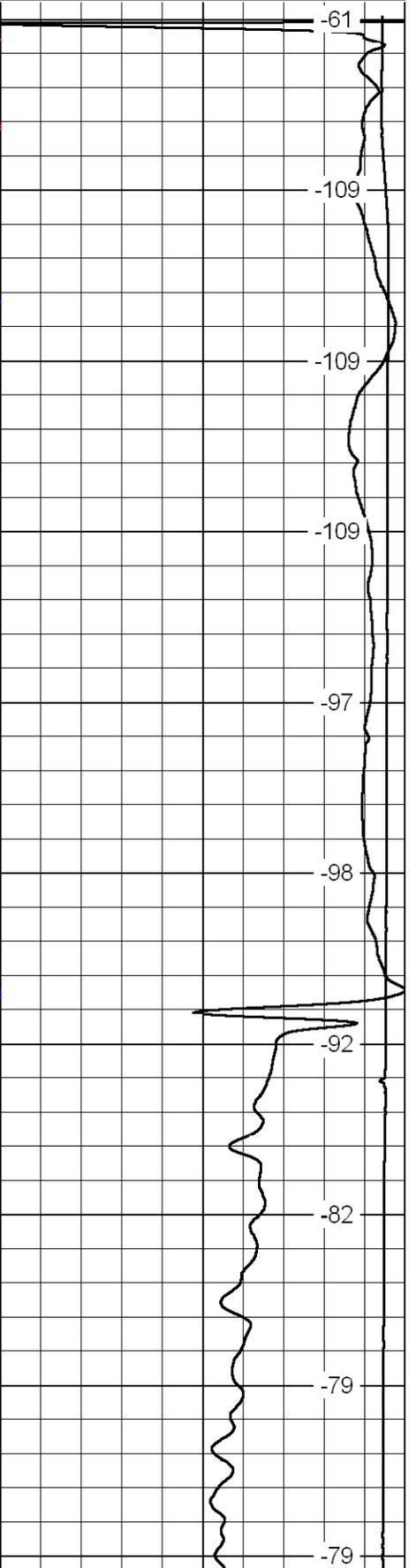
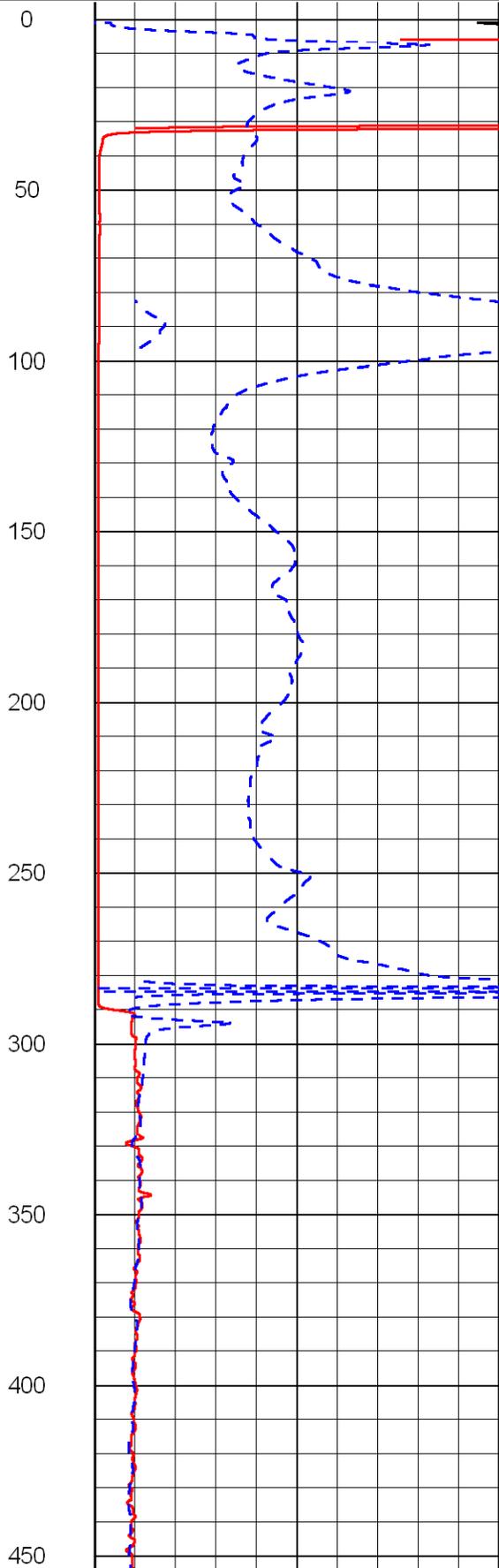
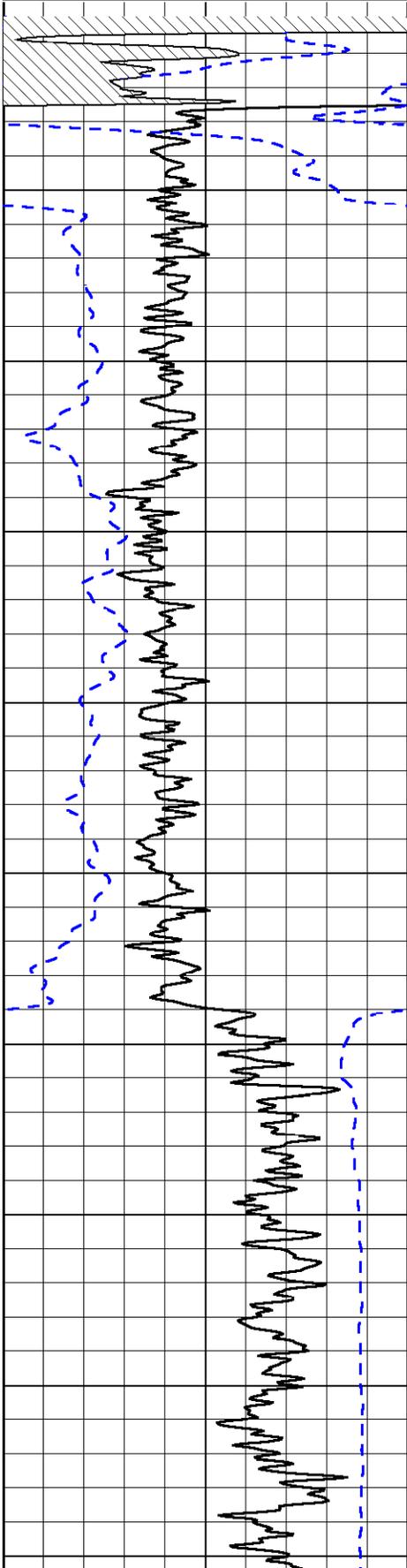
Atwood 9 1/2 W to Beardsley 2 N, 1/4 W to 10.5 rd, 11.5 N to CC rd, 2 W, N Into

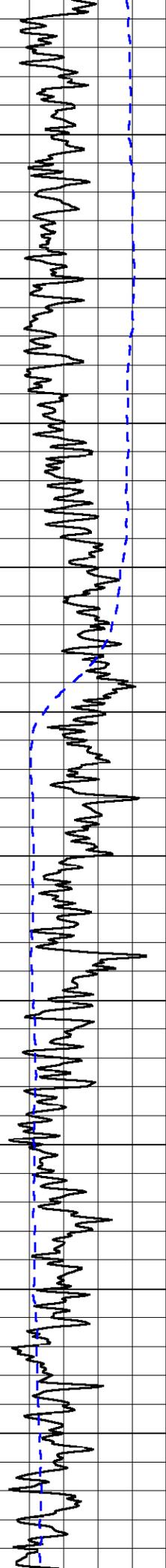
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 Dataset Creation: Wed Mar 11 11:38:36 2009  
 Charted by: Depth in Feet scaled 1:600

0 Gamma Ray 150  
-200 SP (MV) 0

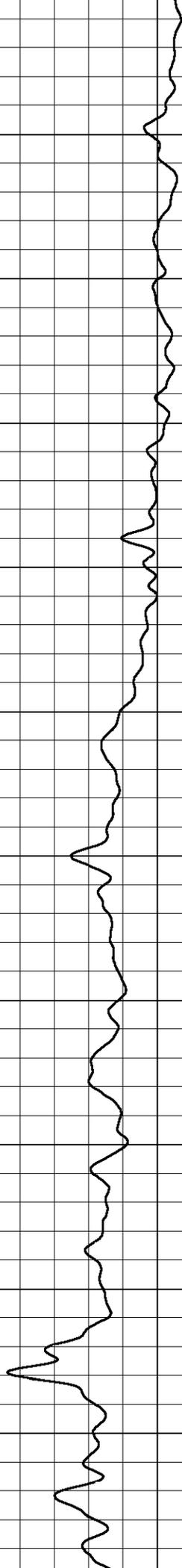
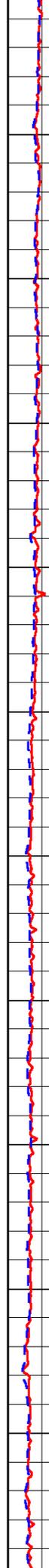
0 Shallow Resistivity (Ohm-m) 50  
0 Deep Resistivity (Ohm-m) 50  
1000 Conductivity (mmho/m)  
15000 Line Tension (lb)  
50 Shallow Resistivity (Ohm-m) 500  
50 Deep Resistivity (Ohm-m) 500

LSPD  
(ft/min)  
0  
0

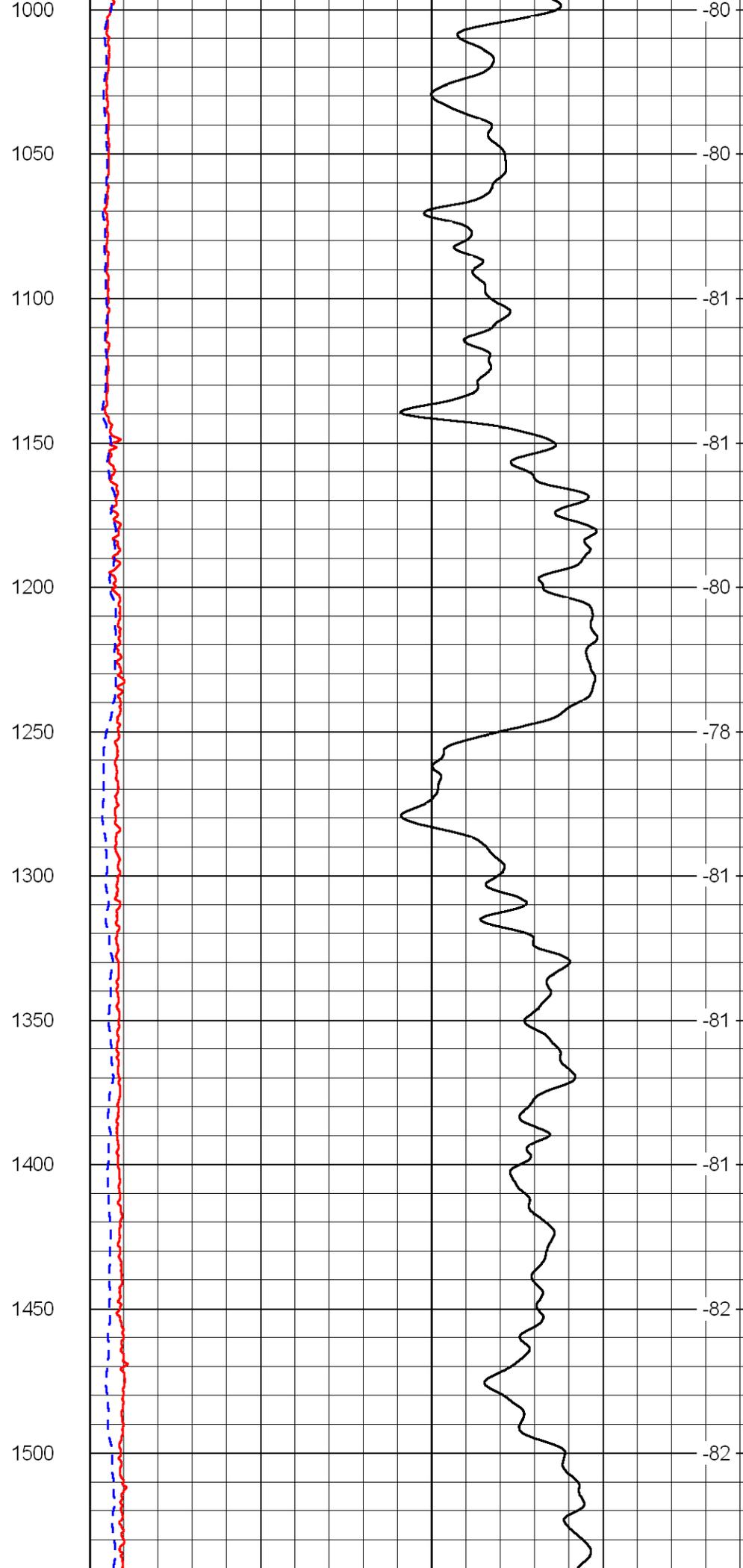
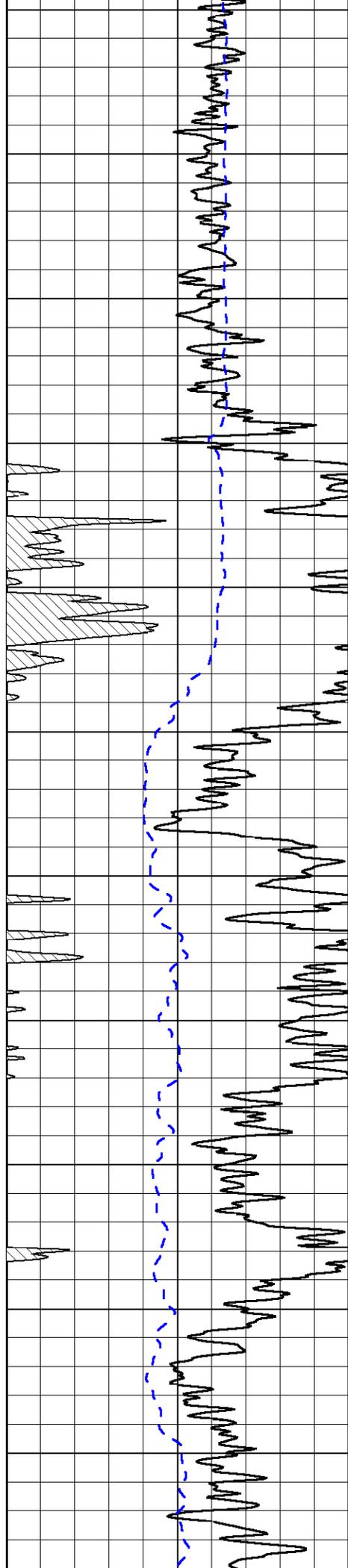


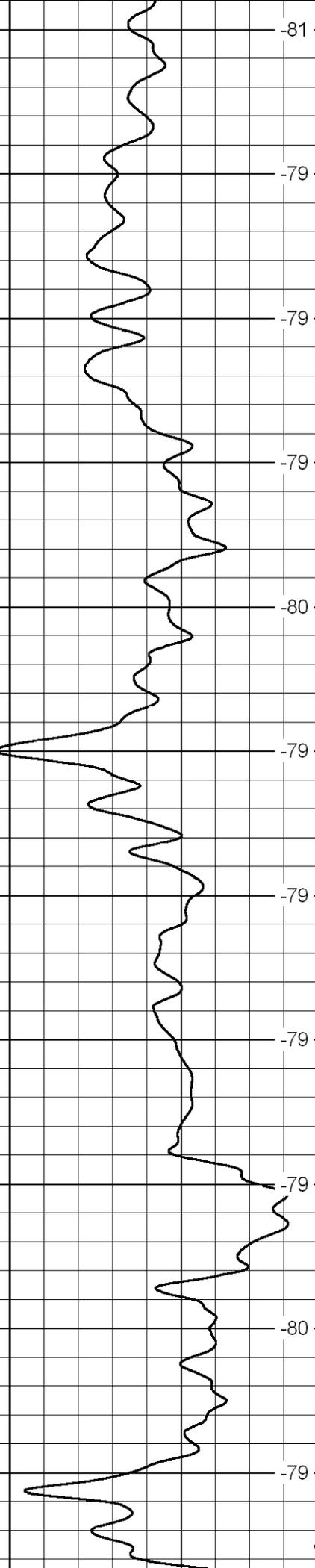
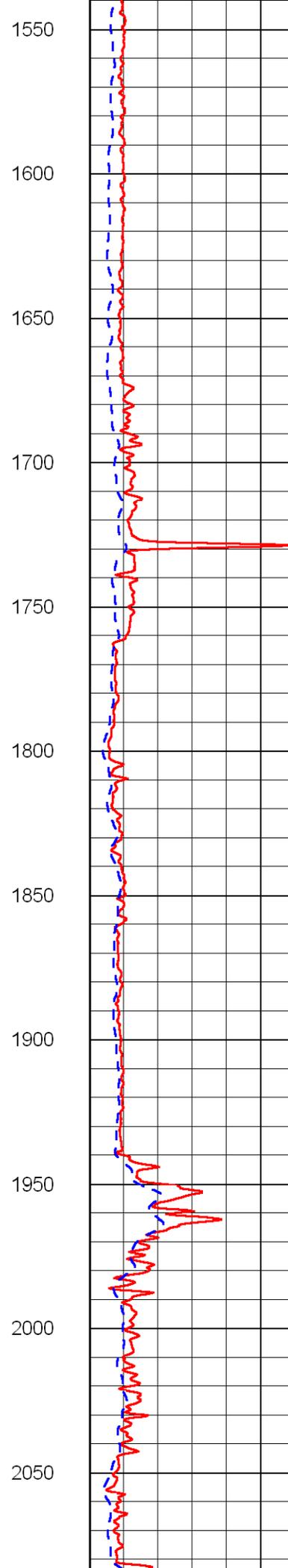
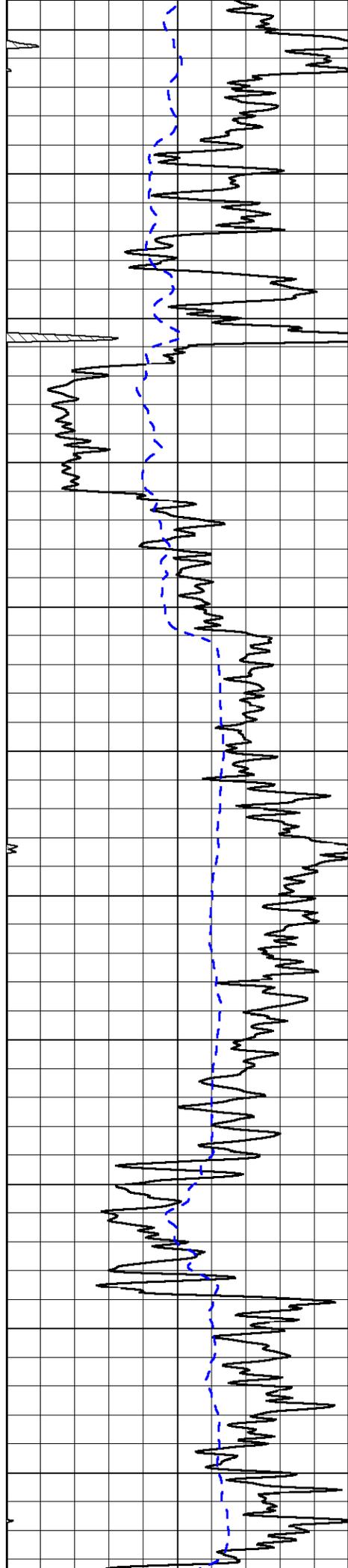


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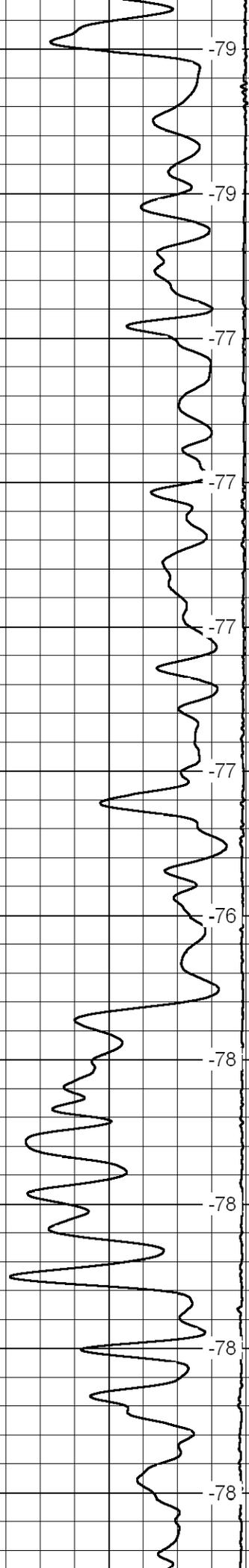
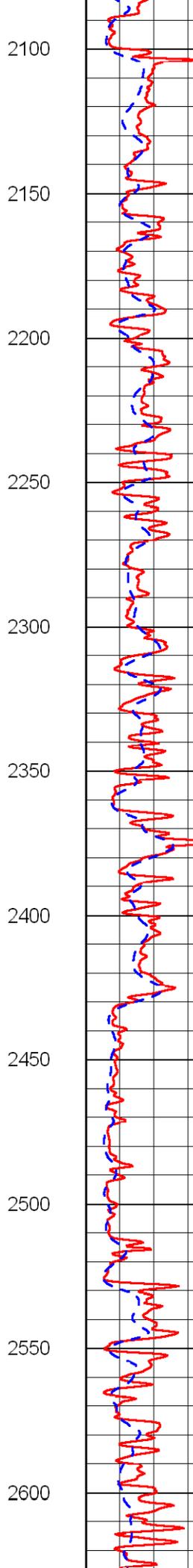
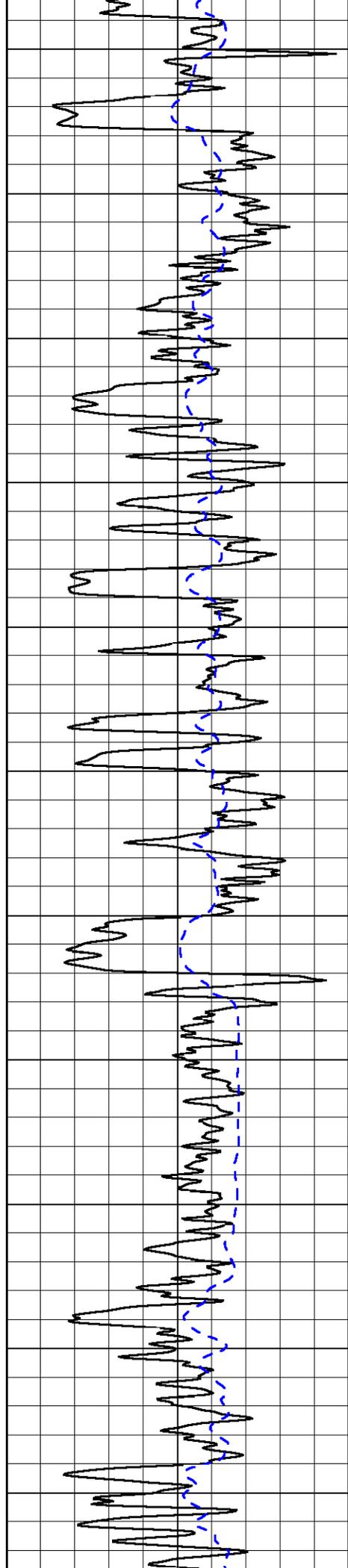
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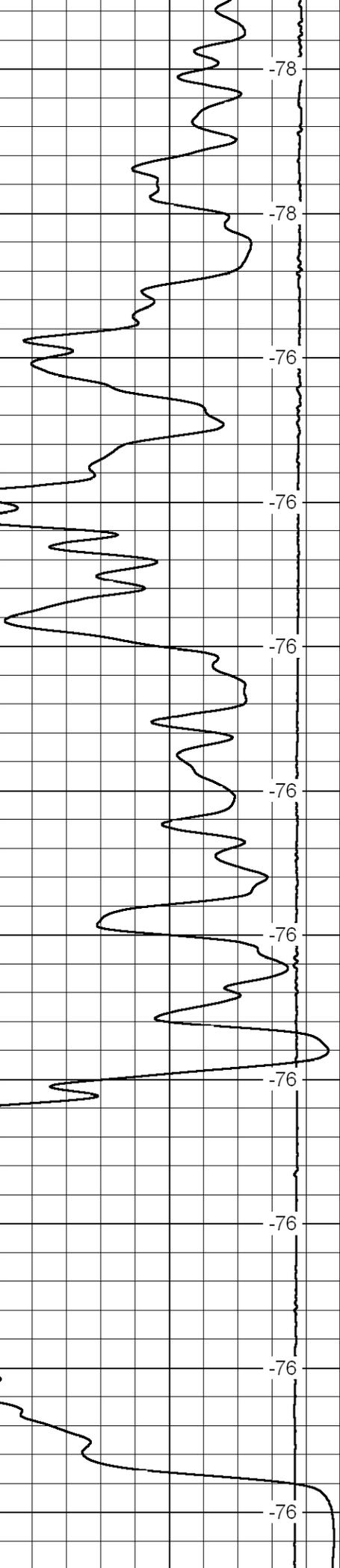
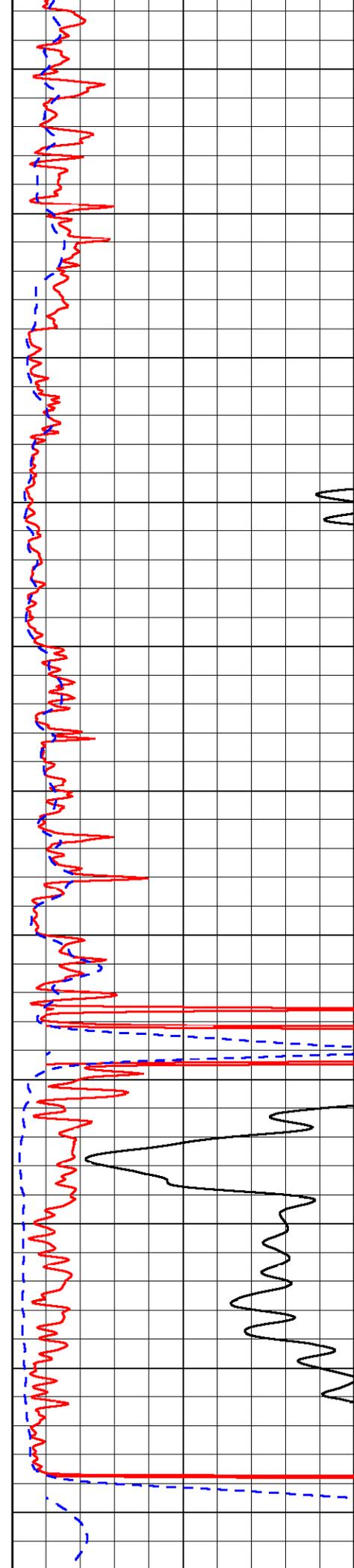
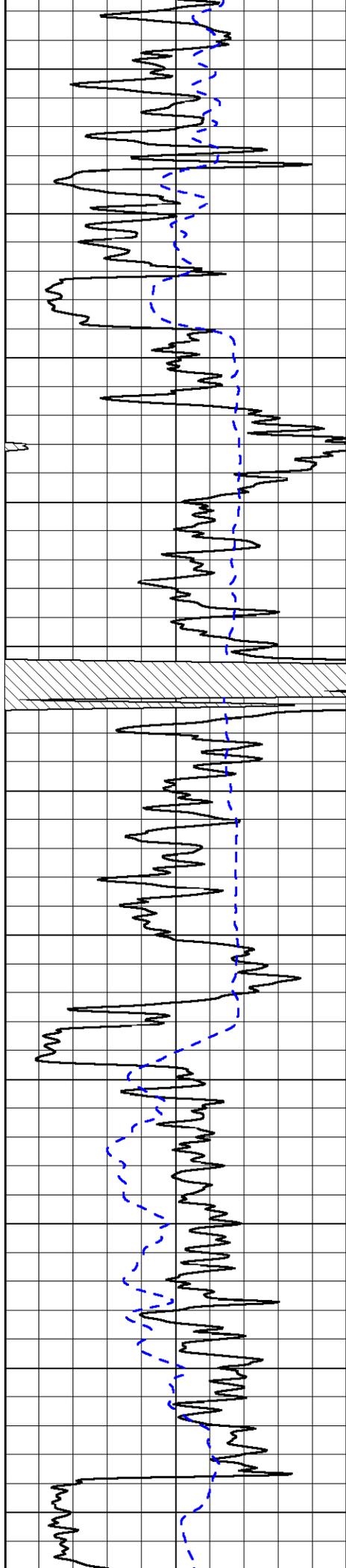
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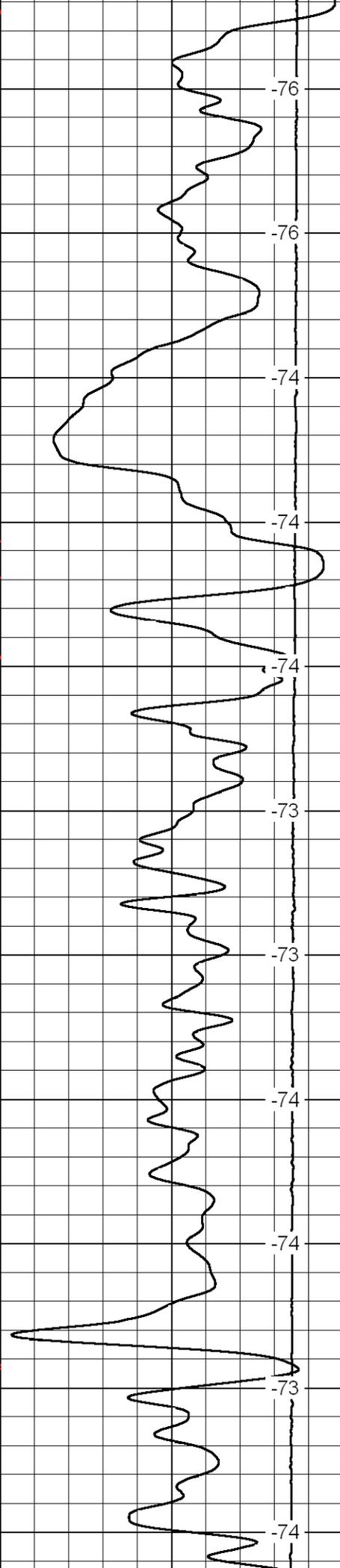
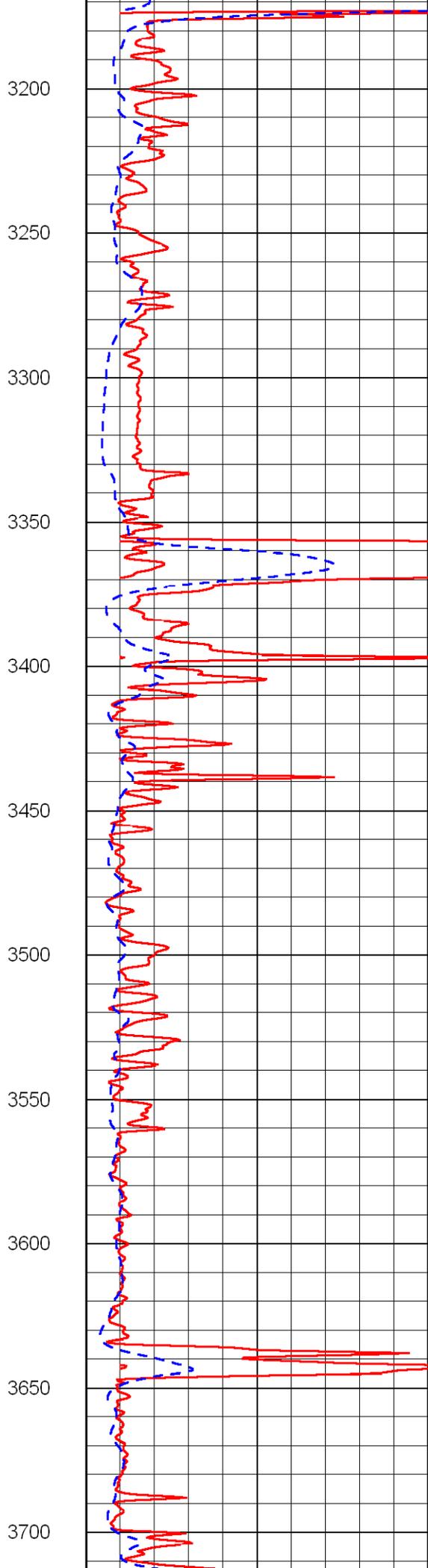
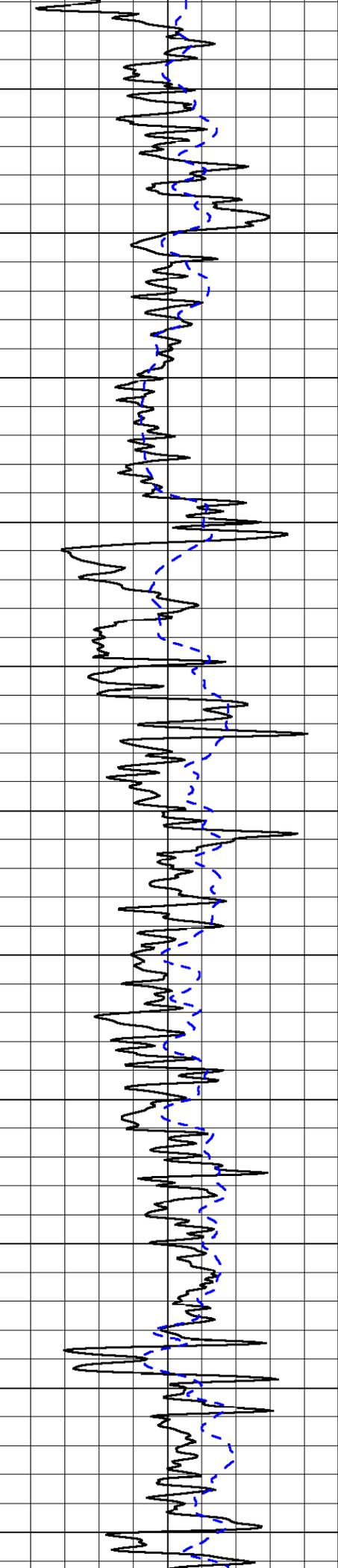
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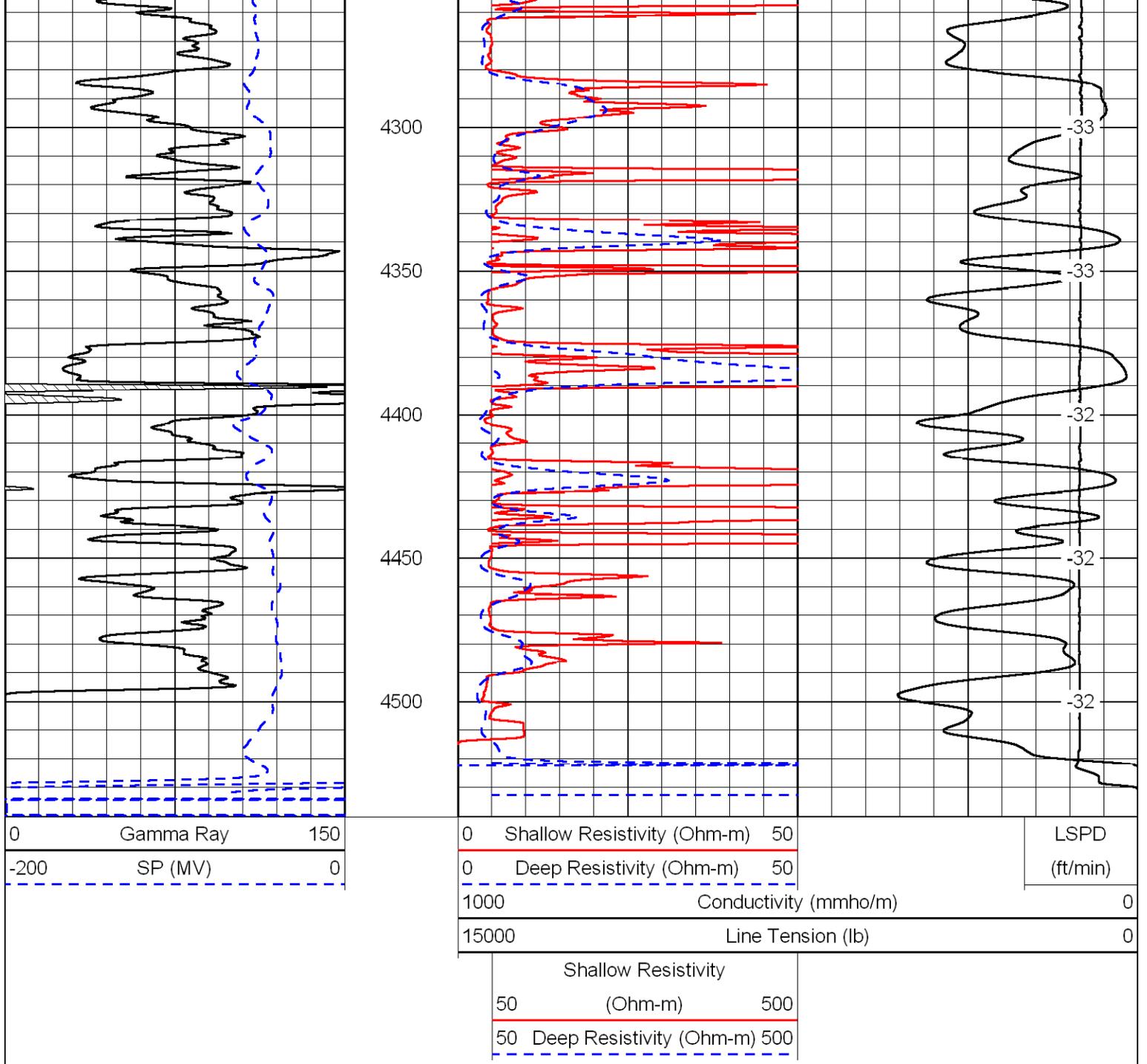
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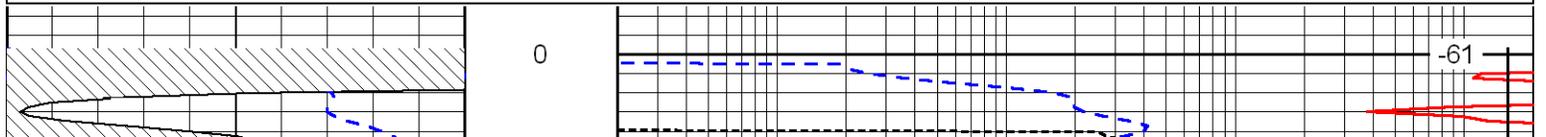
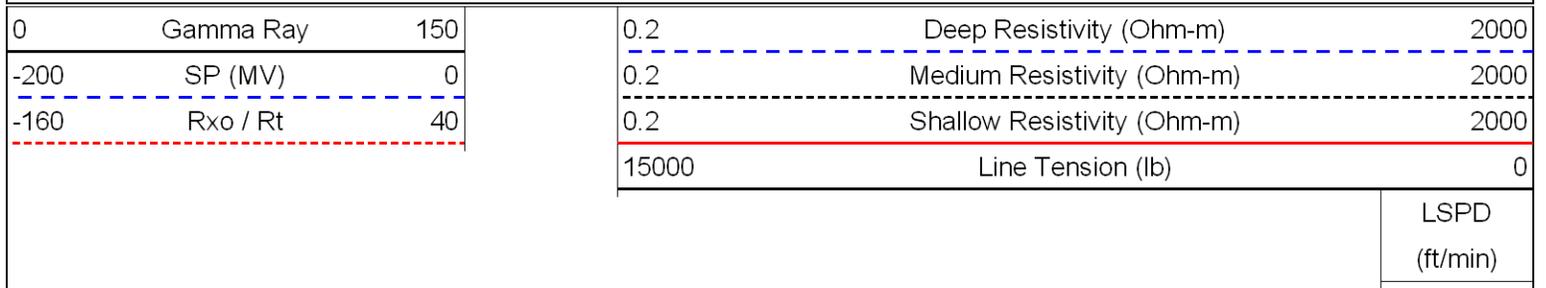


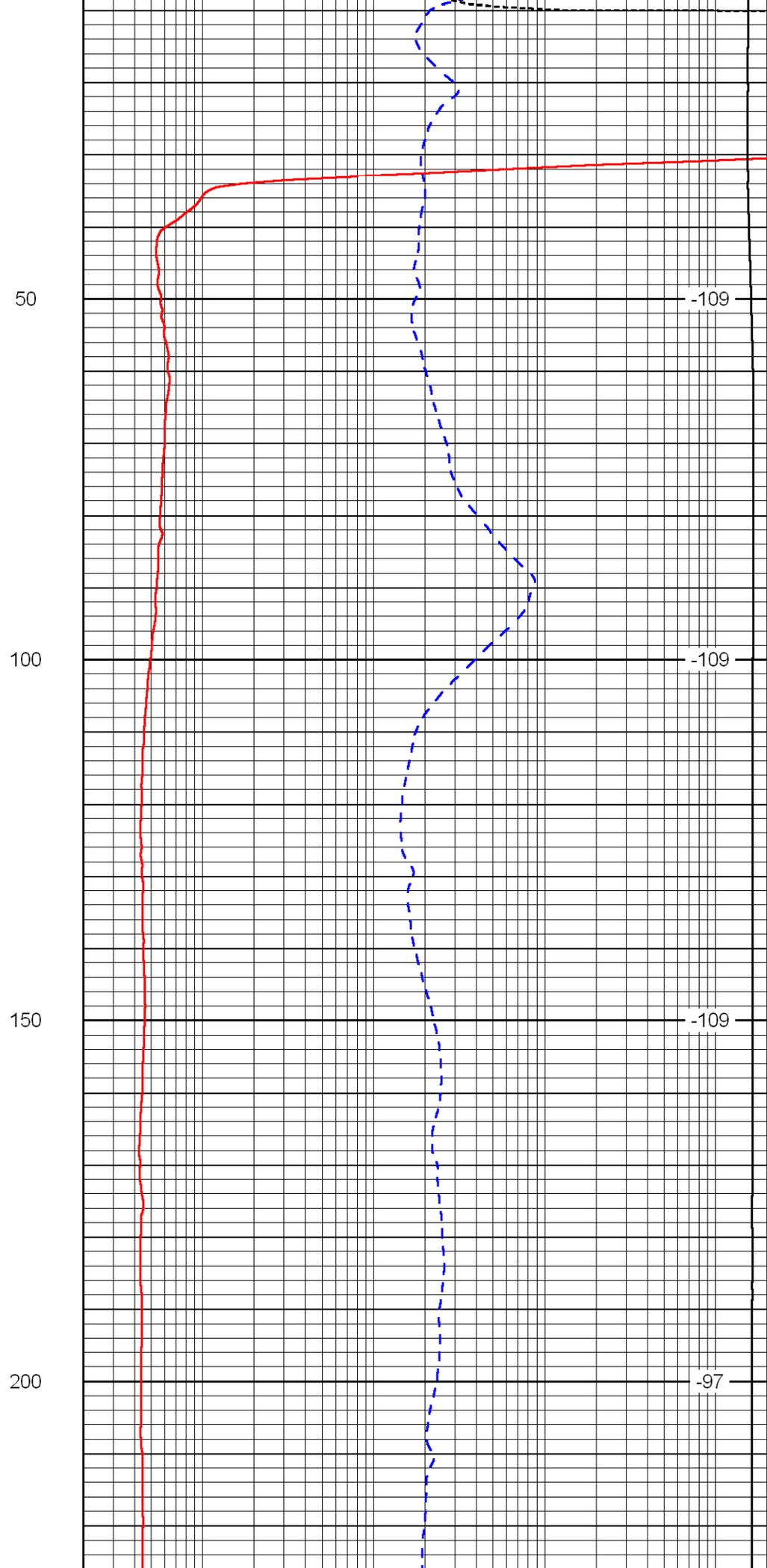
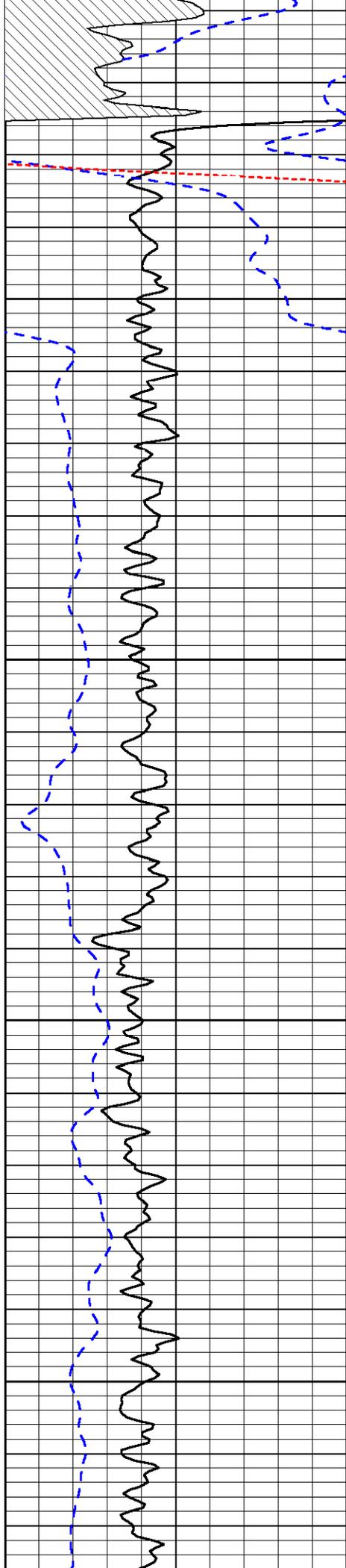


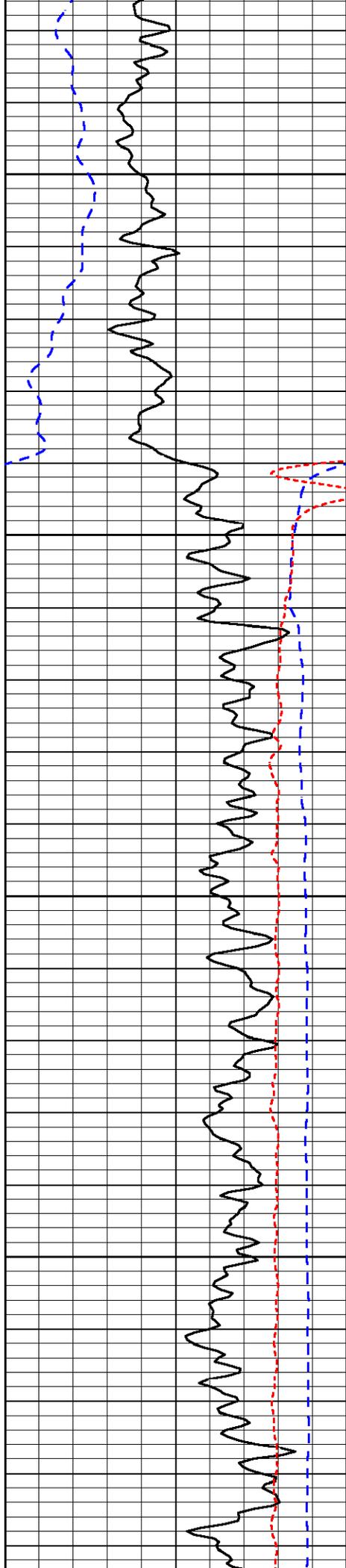




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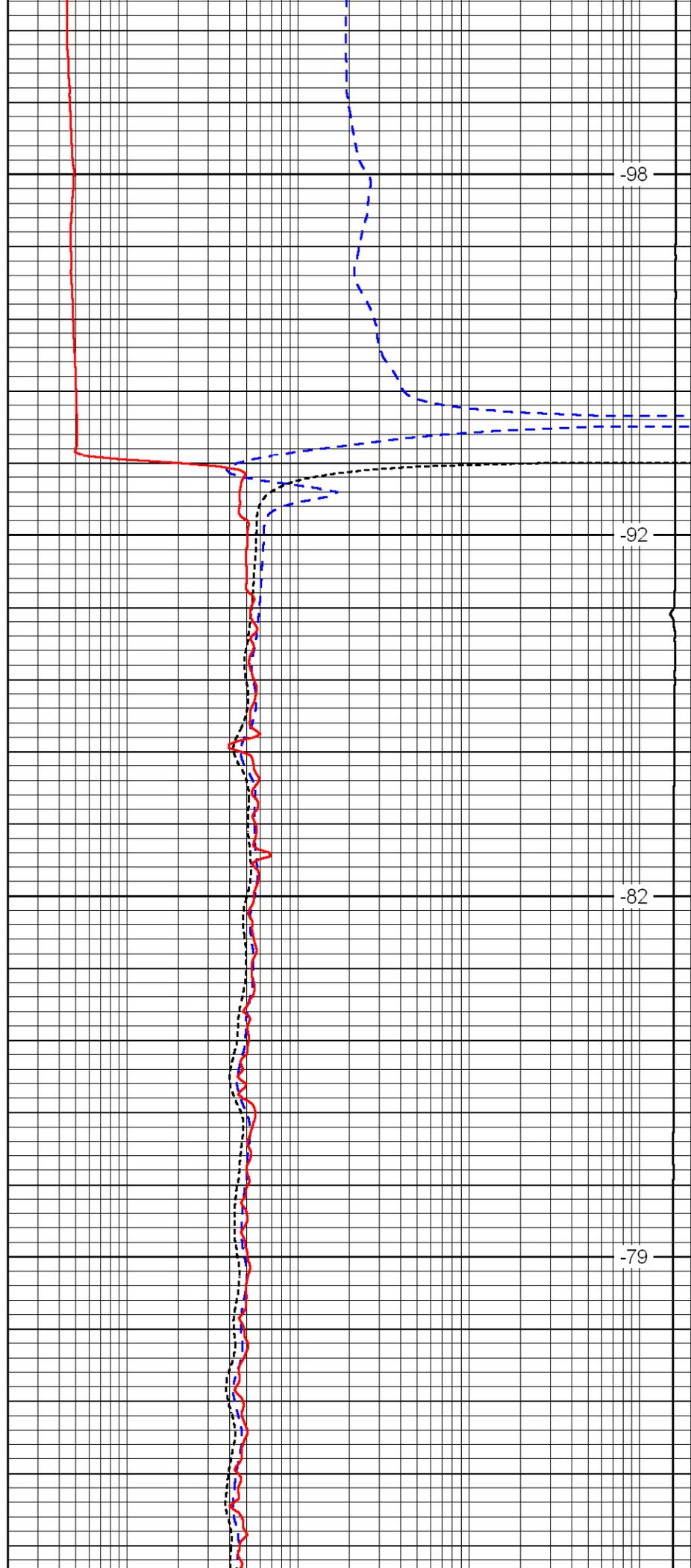


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400

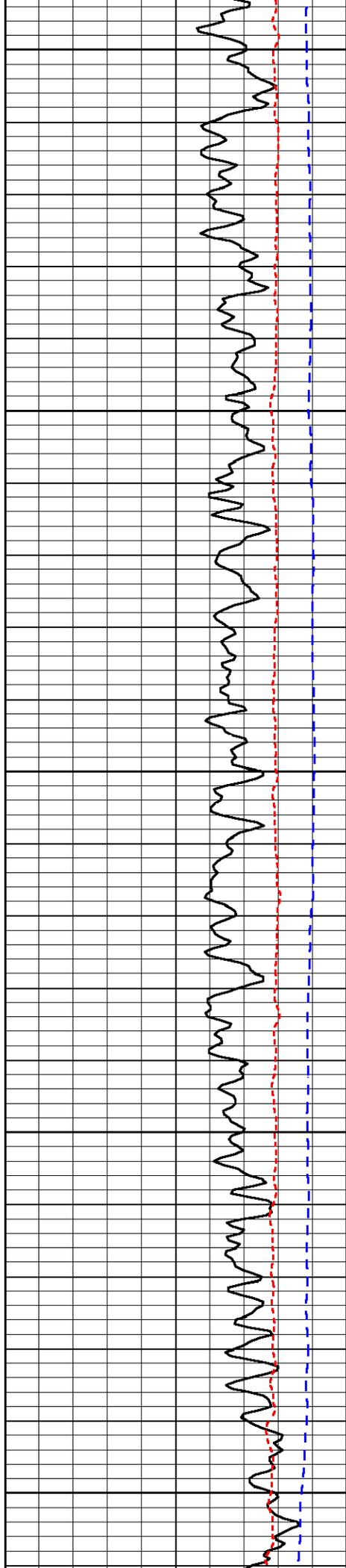


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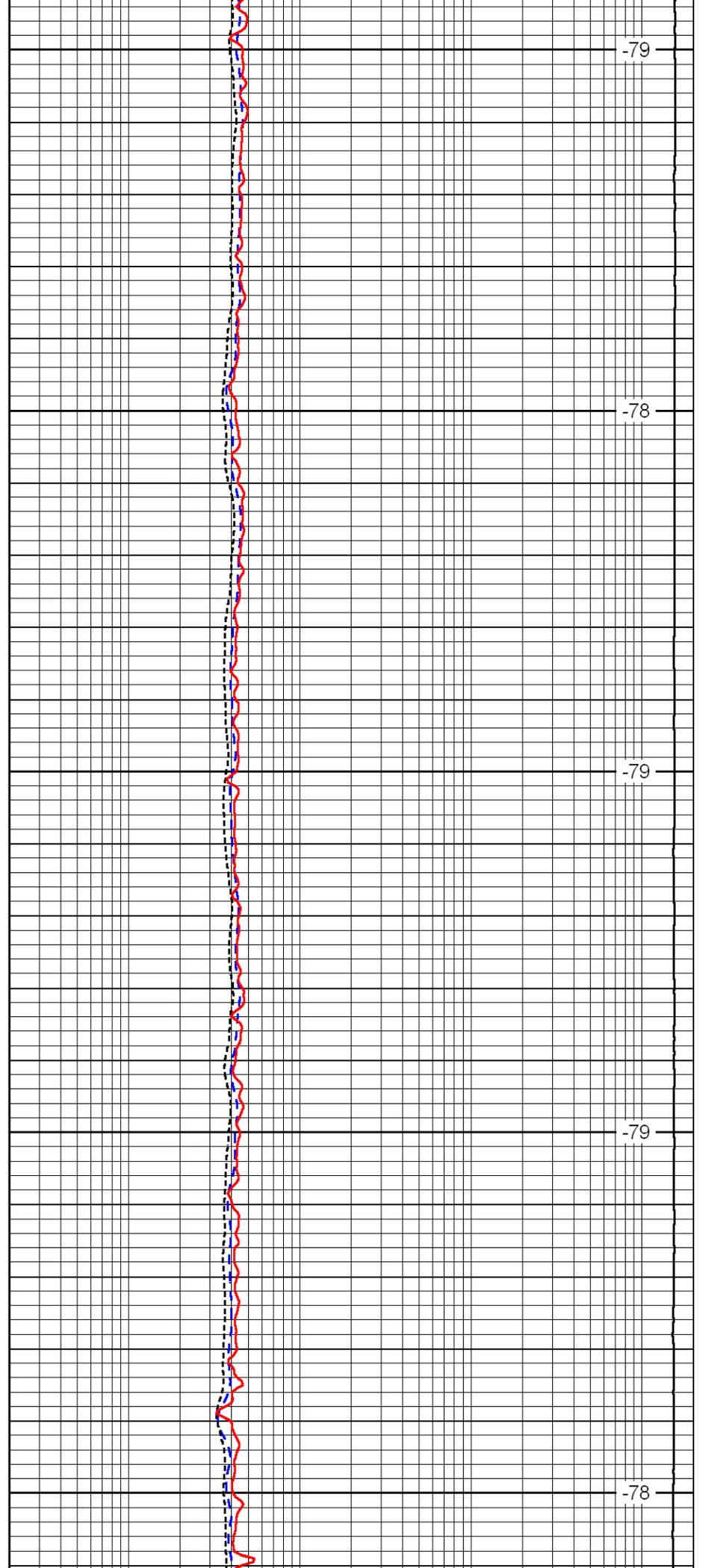
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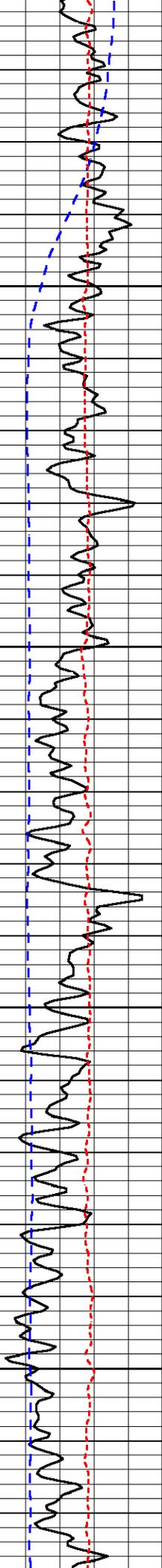
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700

750

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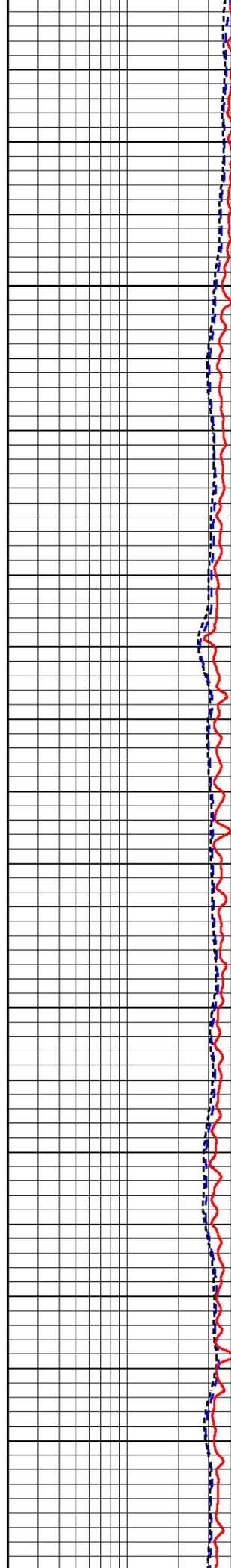
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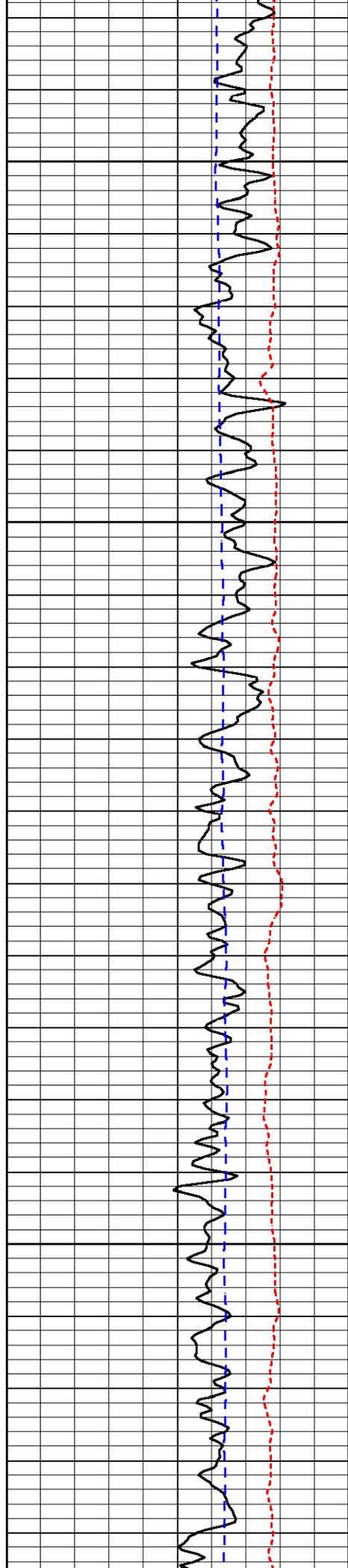
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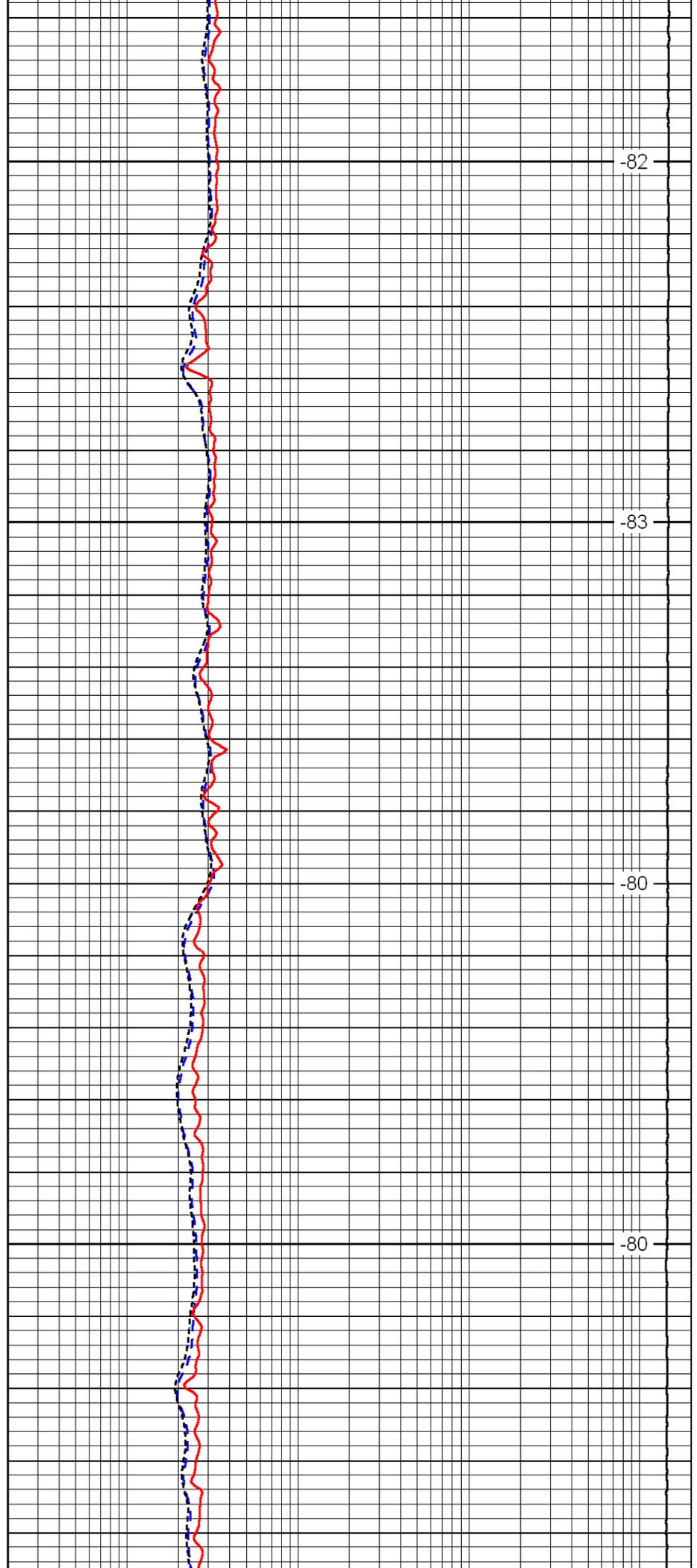


900

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1000

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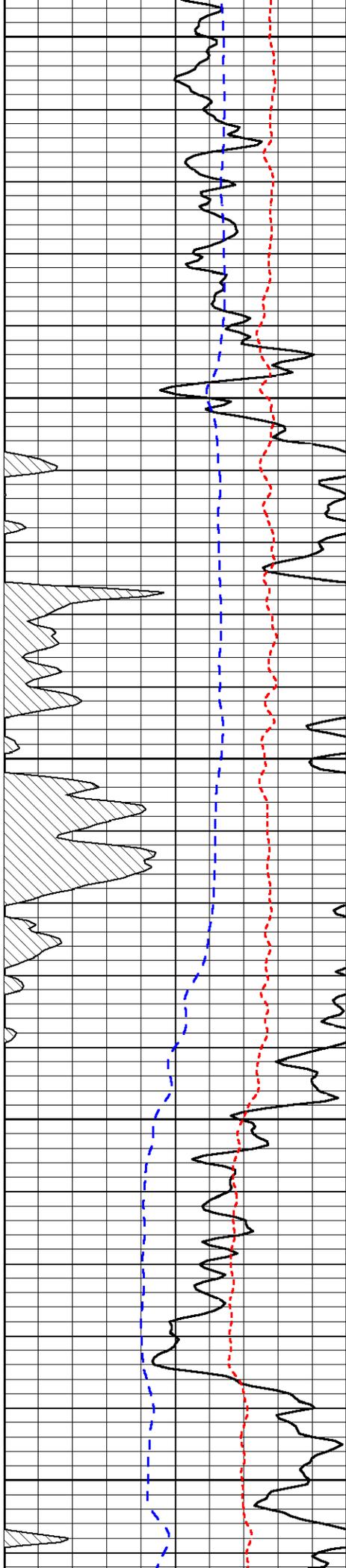


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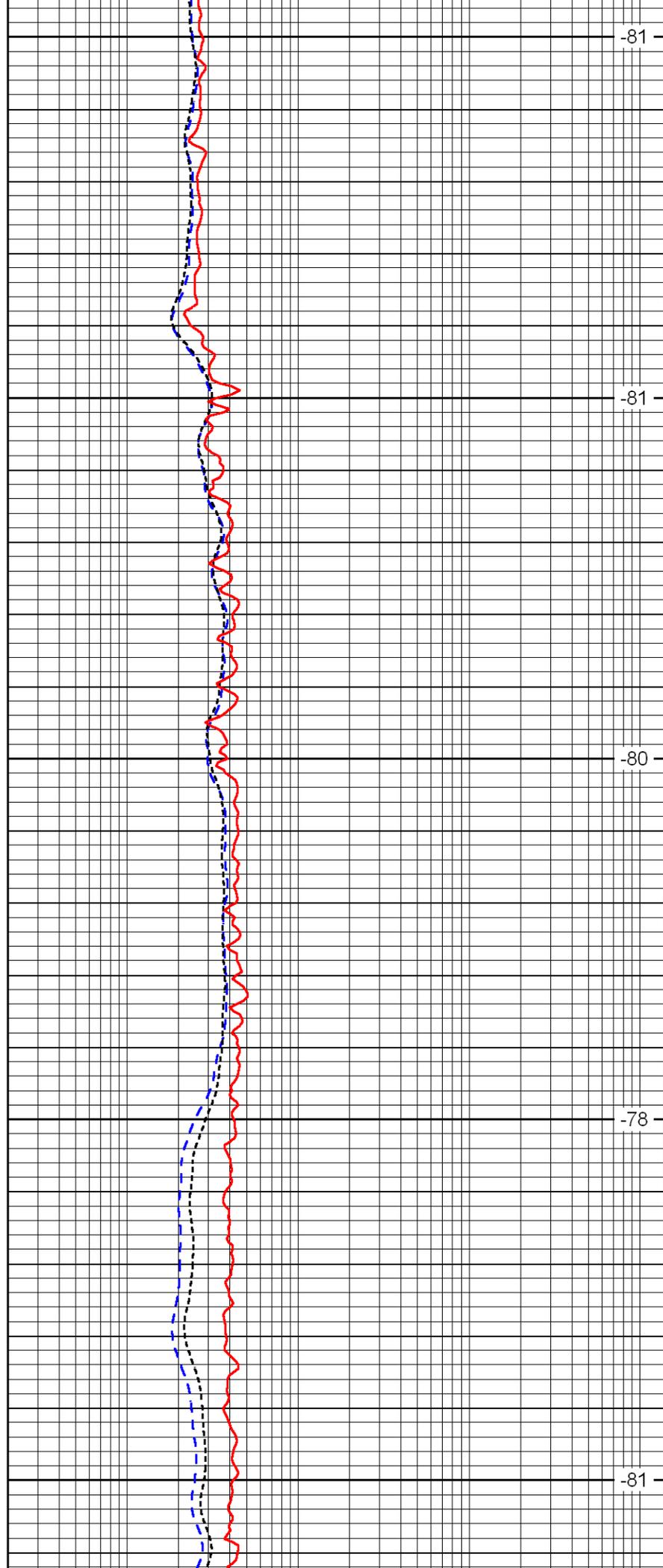
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1150

1200

1250

1300



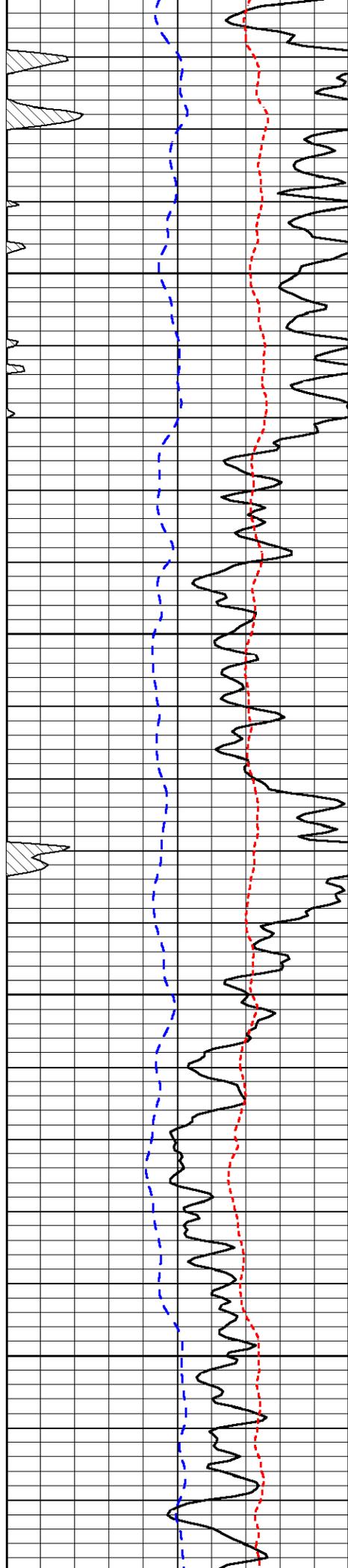
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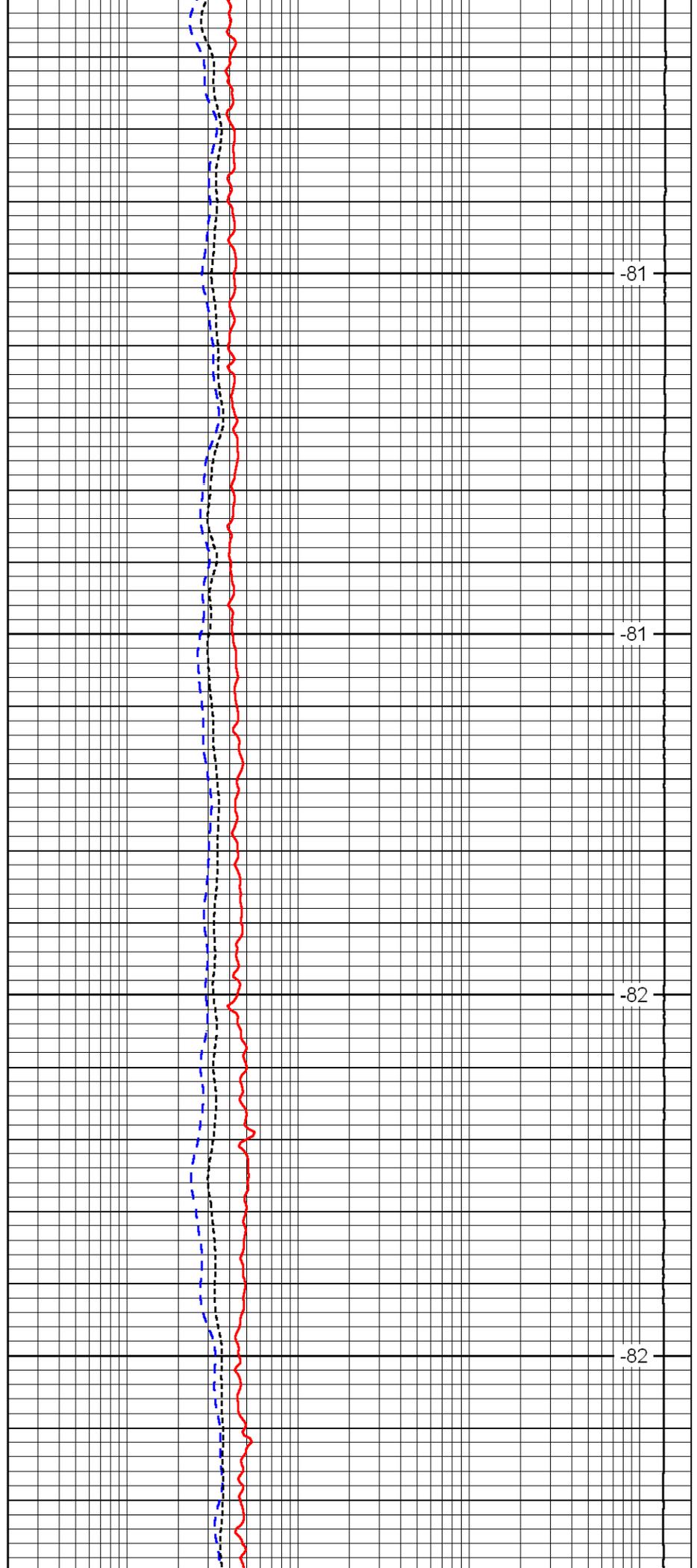


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1500

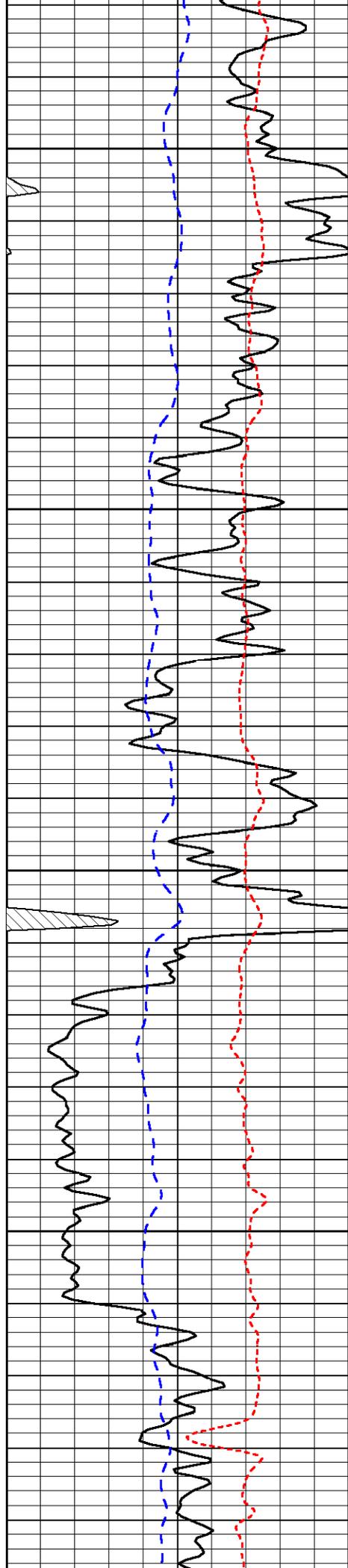


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1600

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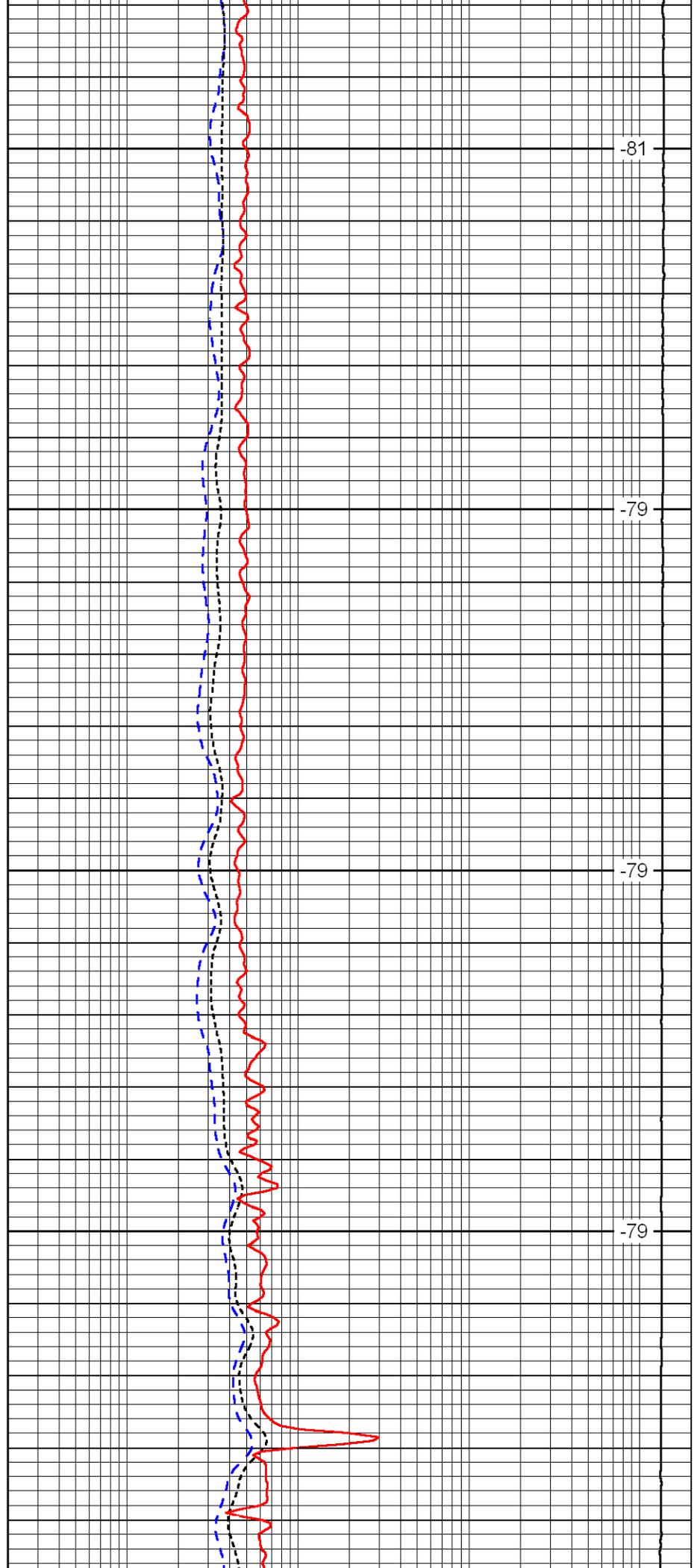
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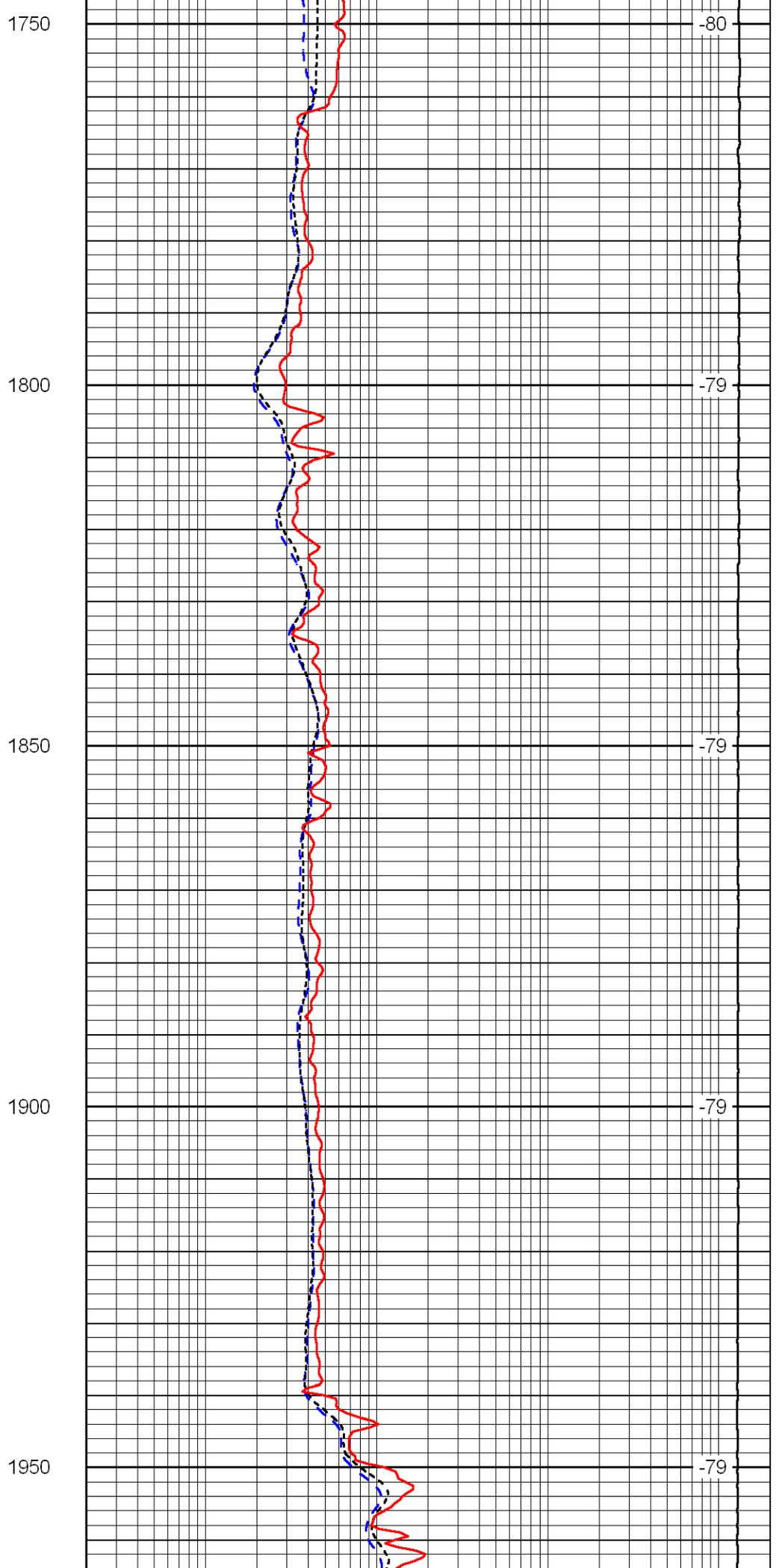
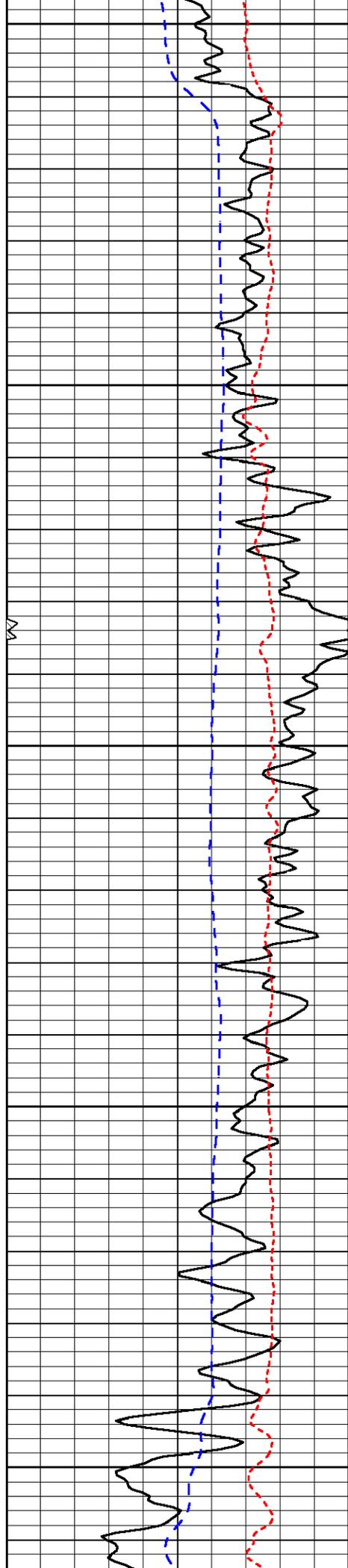
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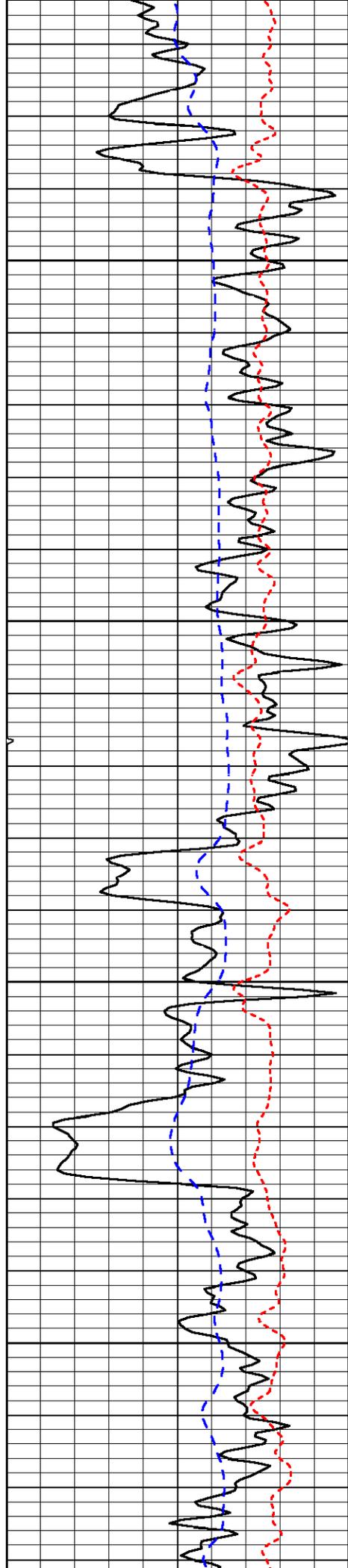
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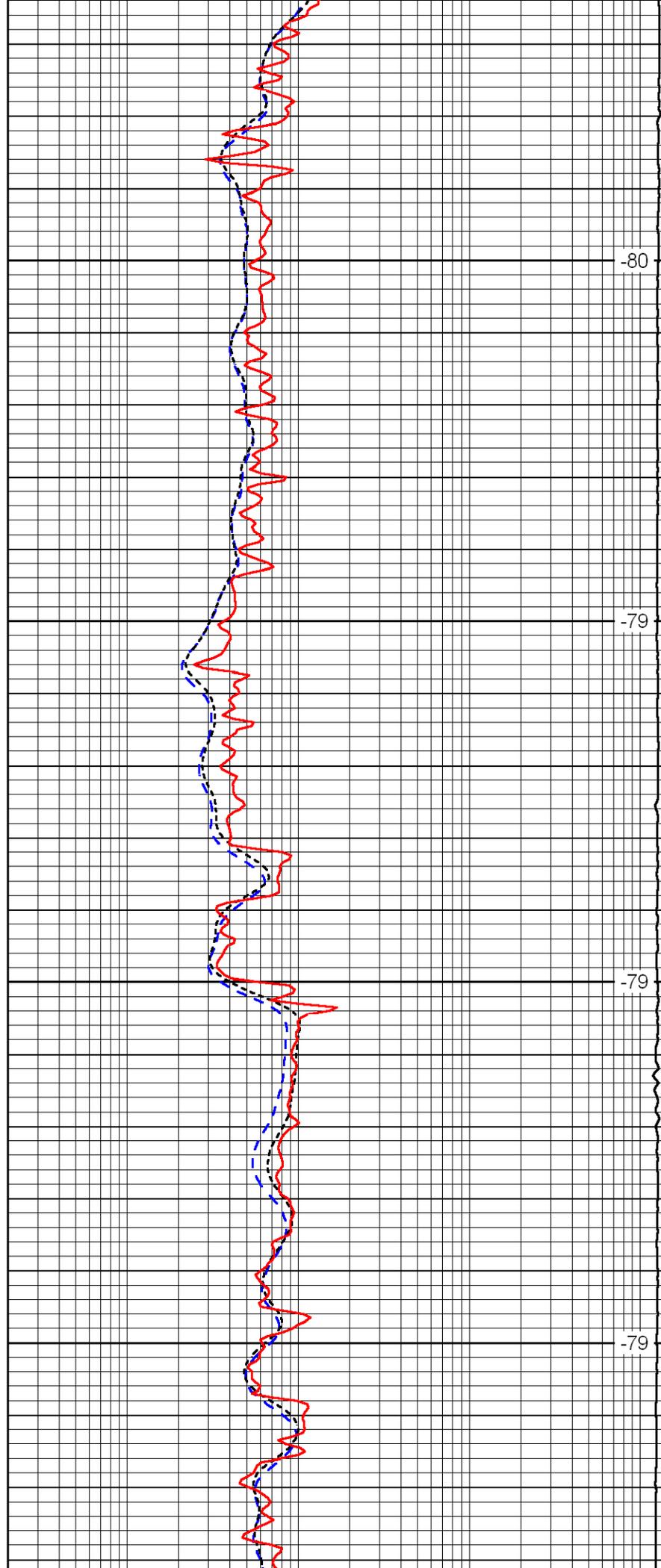


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2100

2150

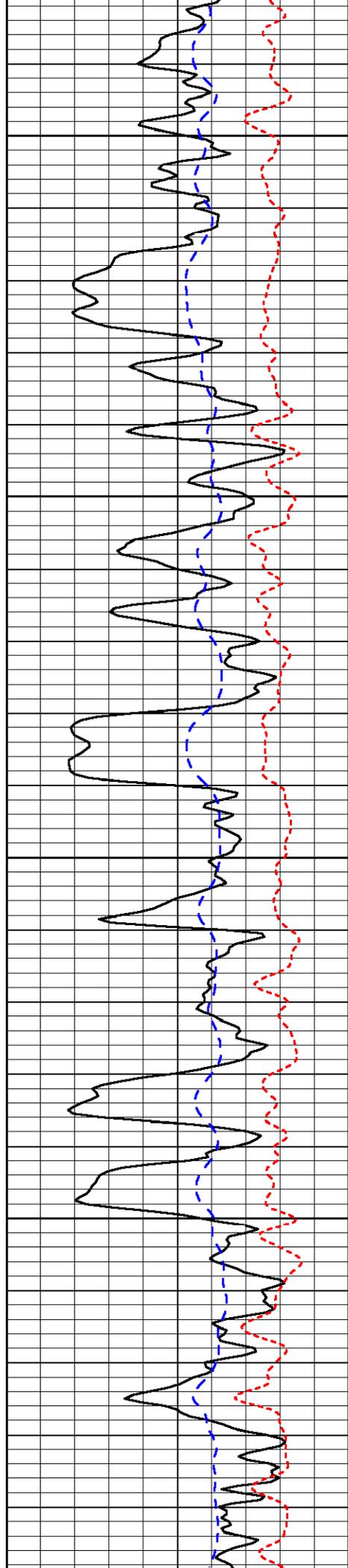


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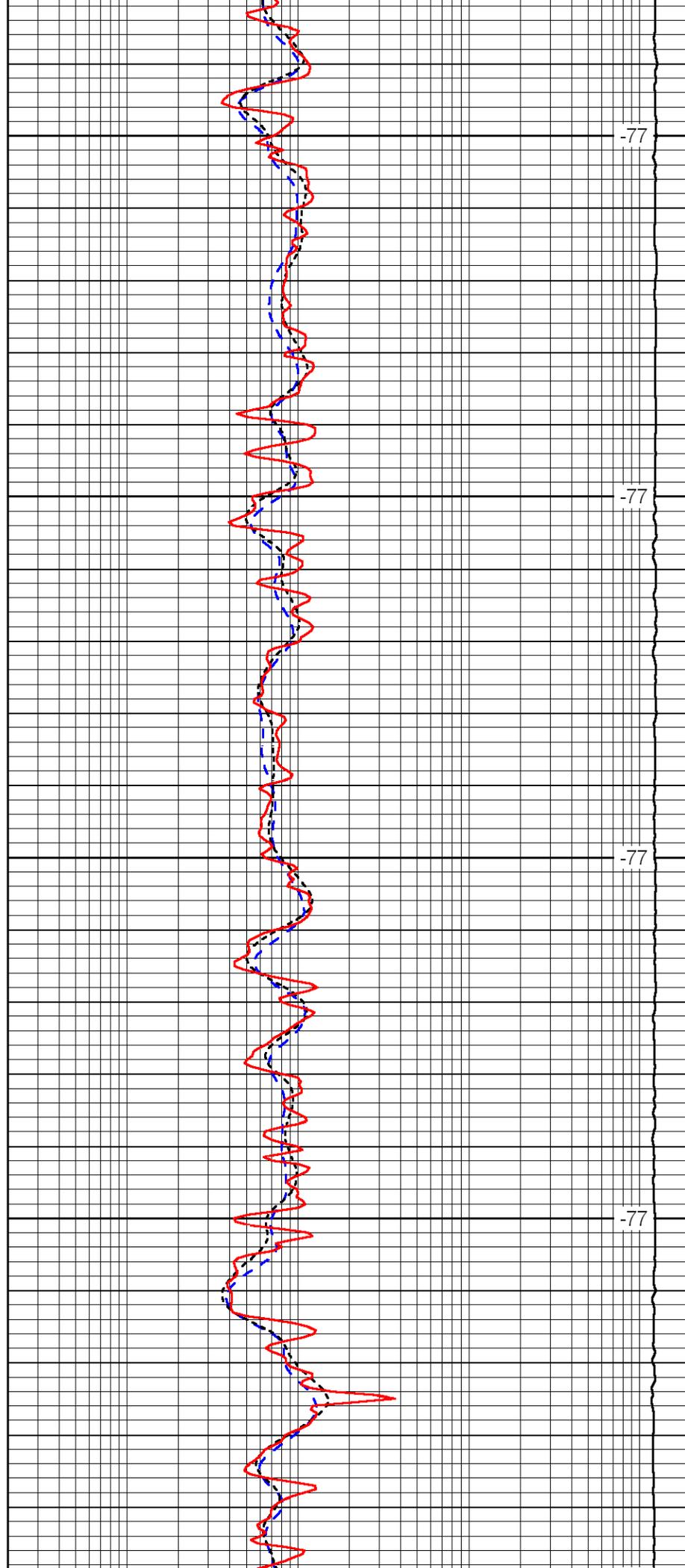


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2300

2350

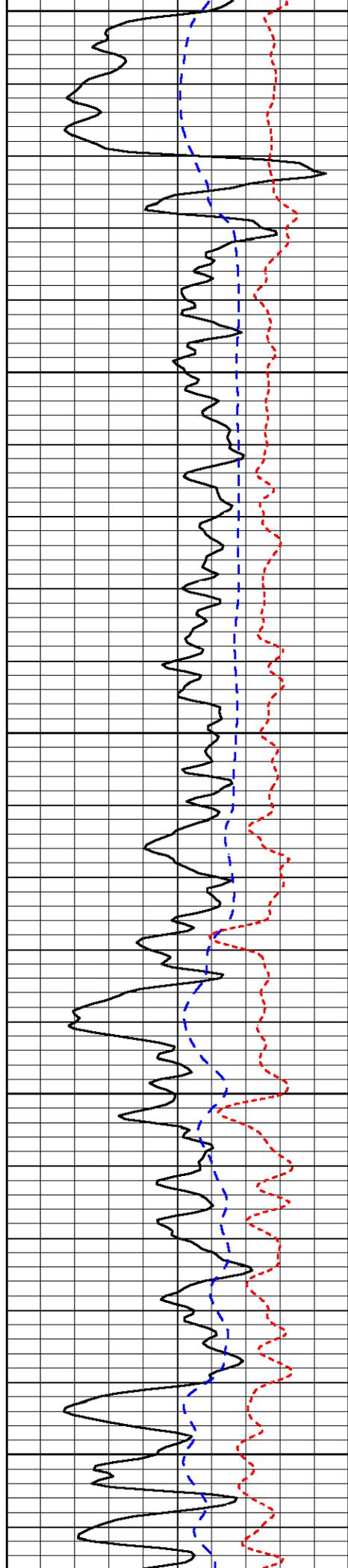


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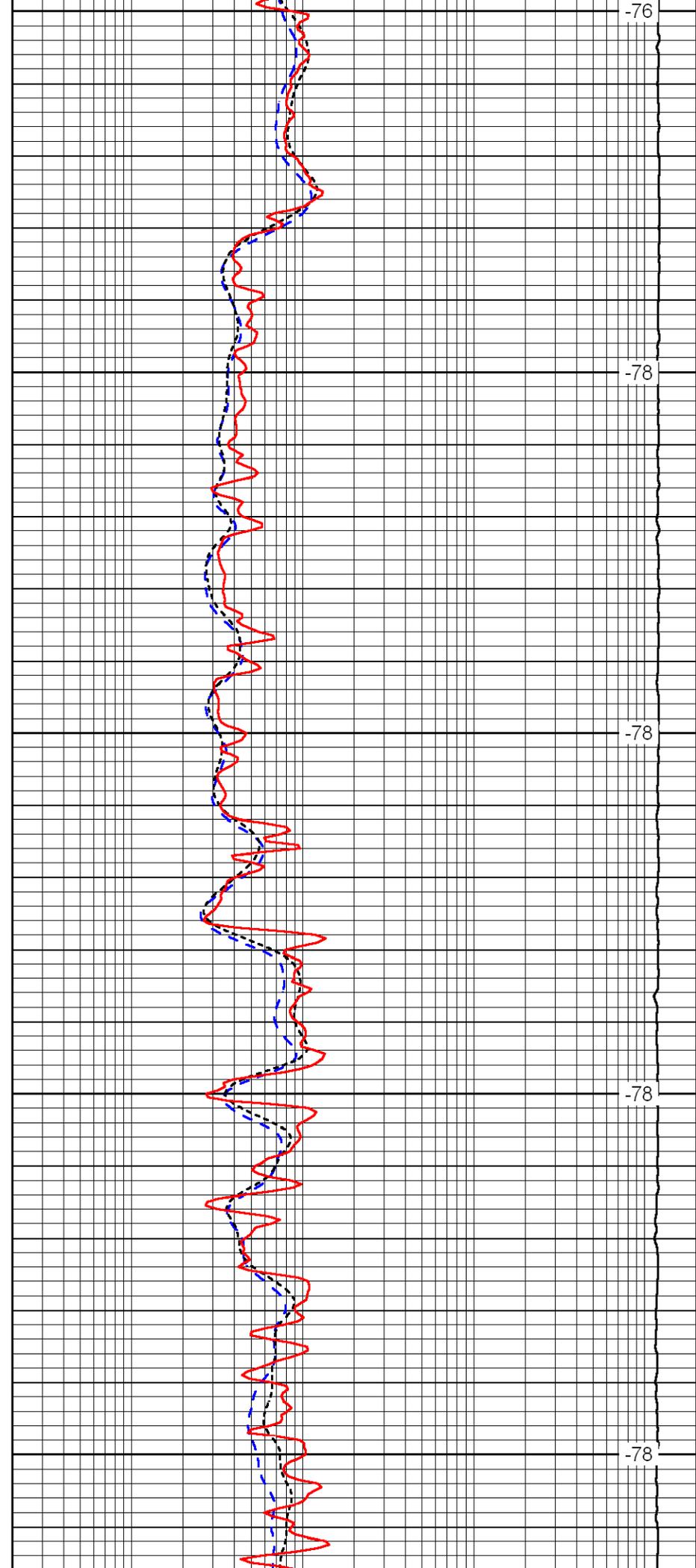
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2500

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2600



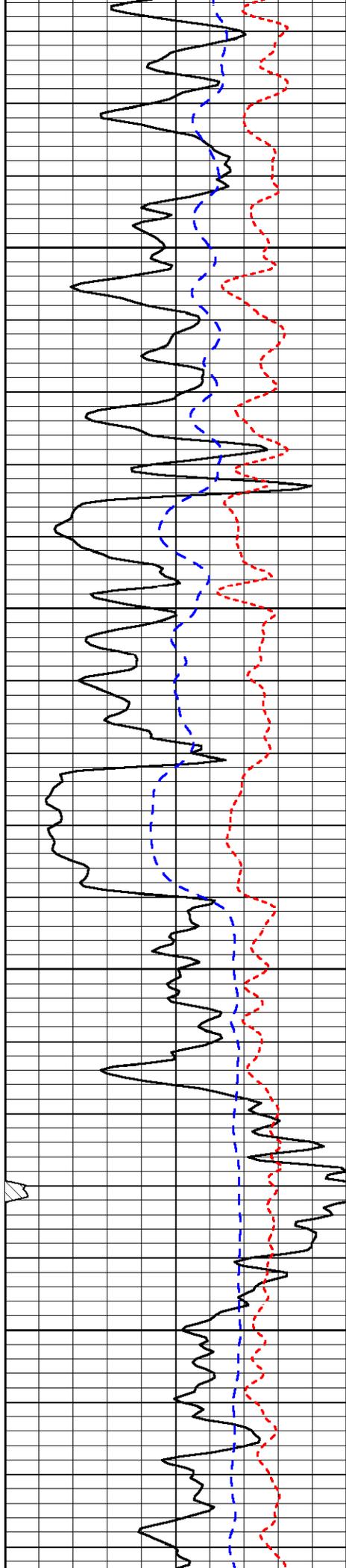
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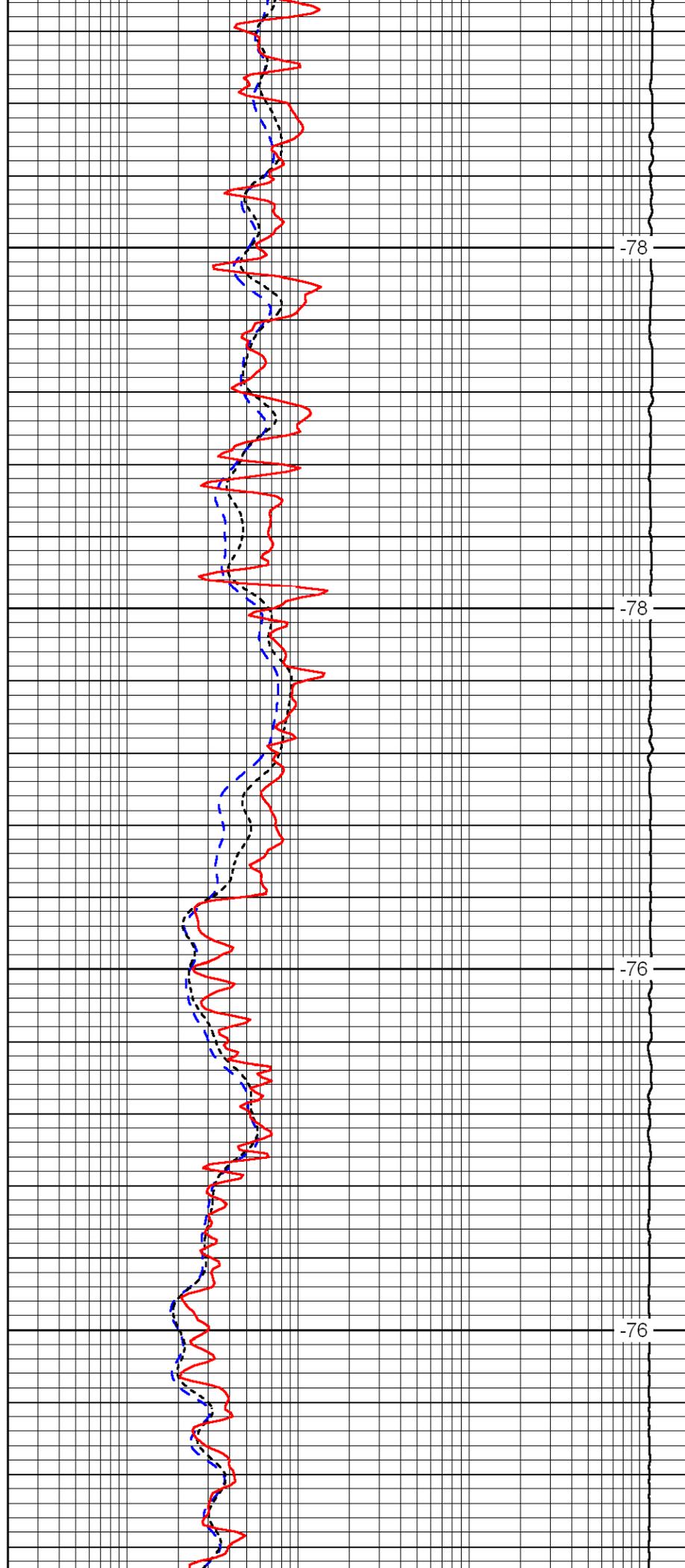


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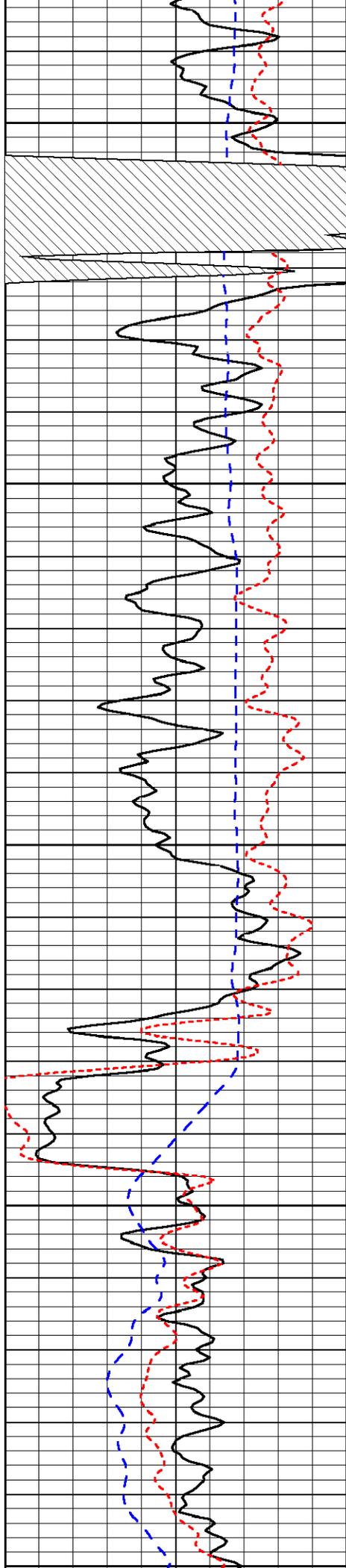


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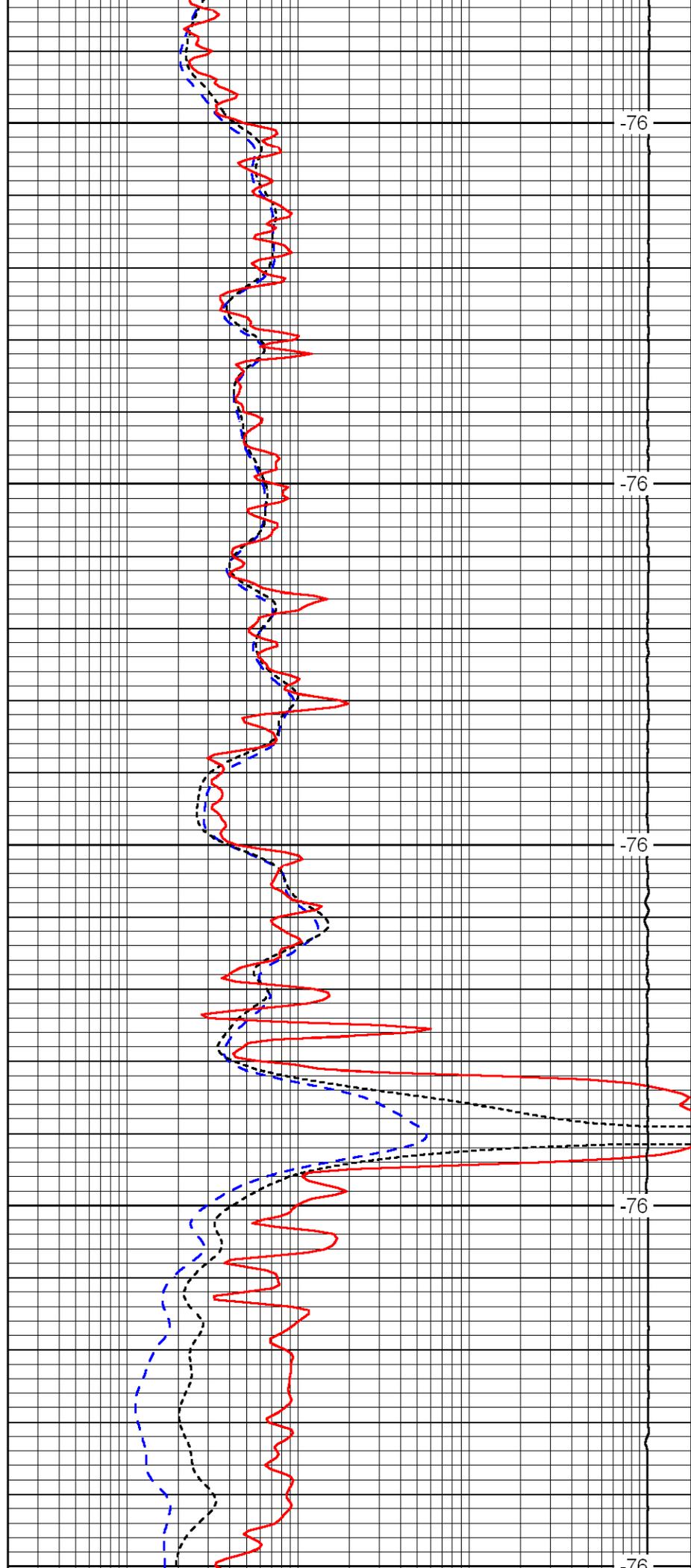
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2900

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3000

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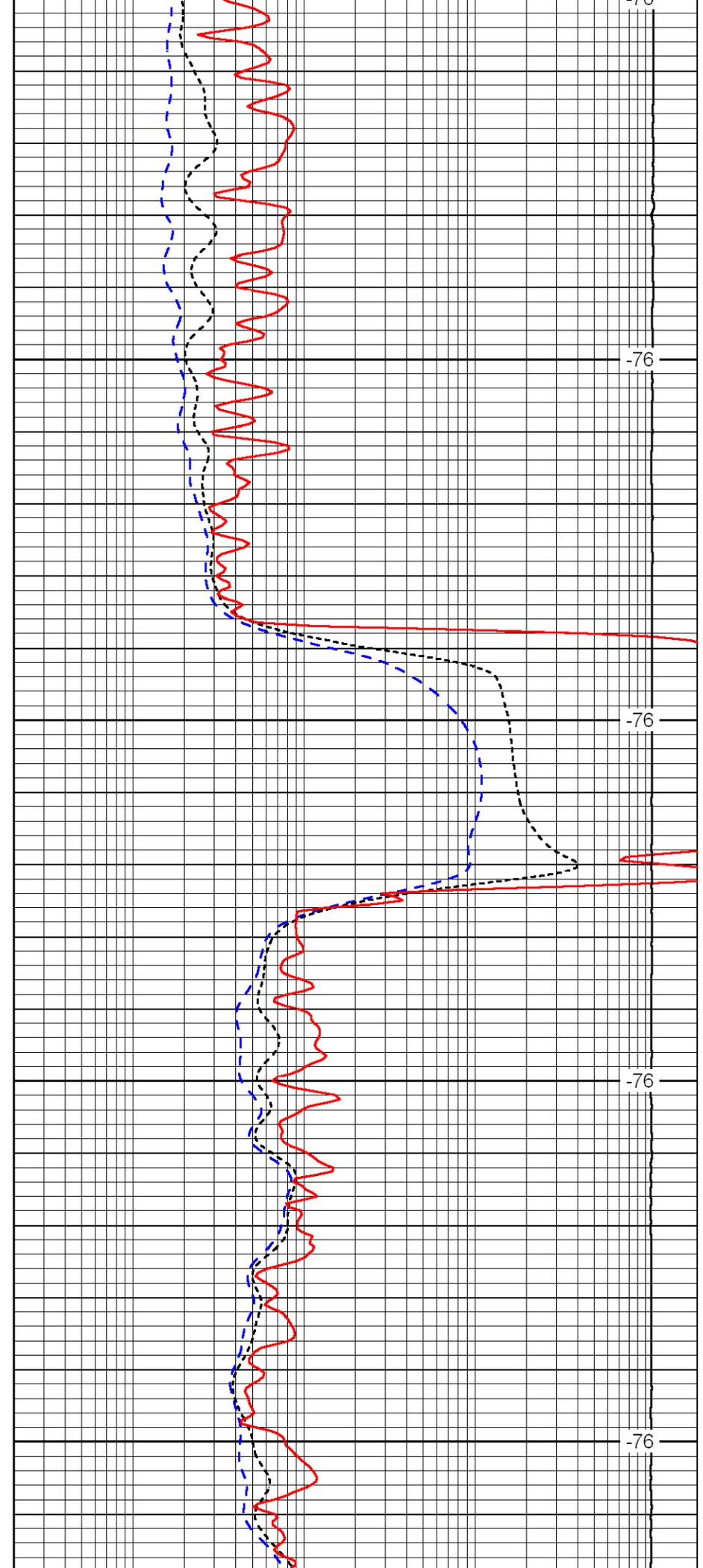
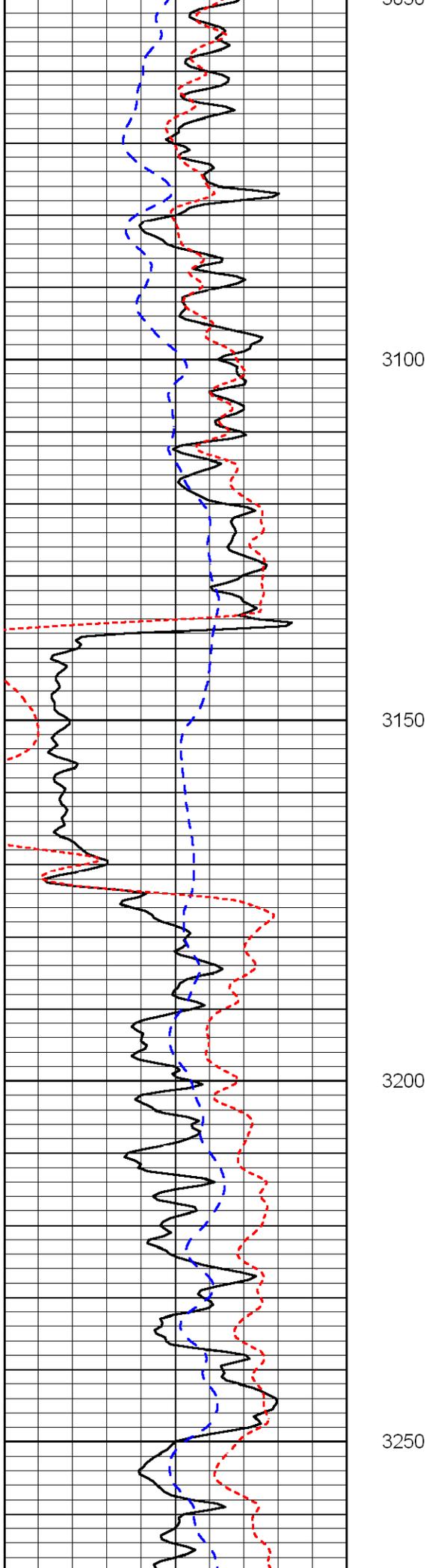
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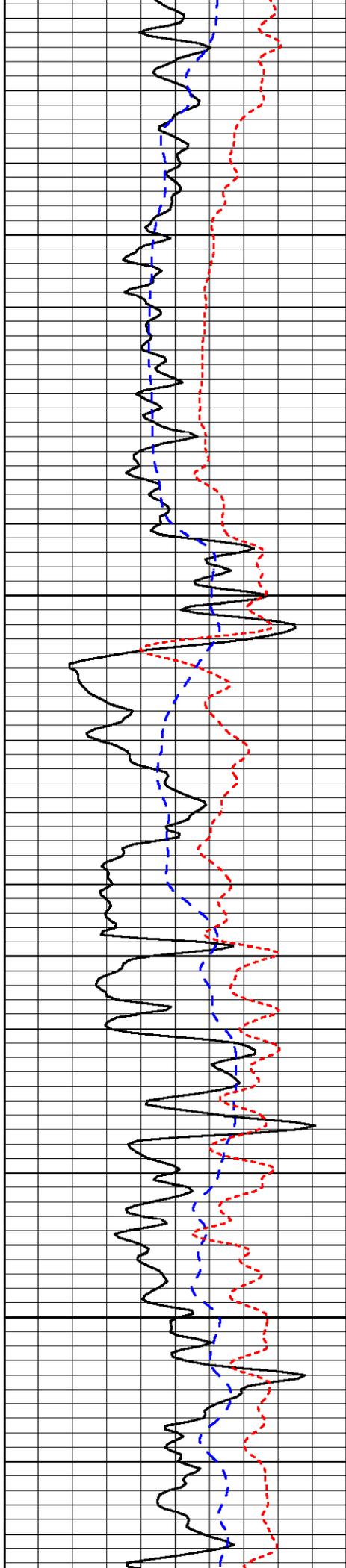
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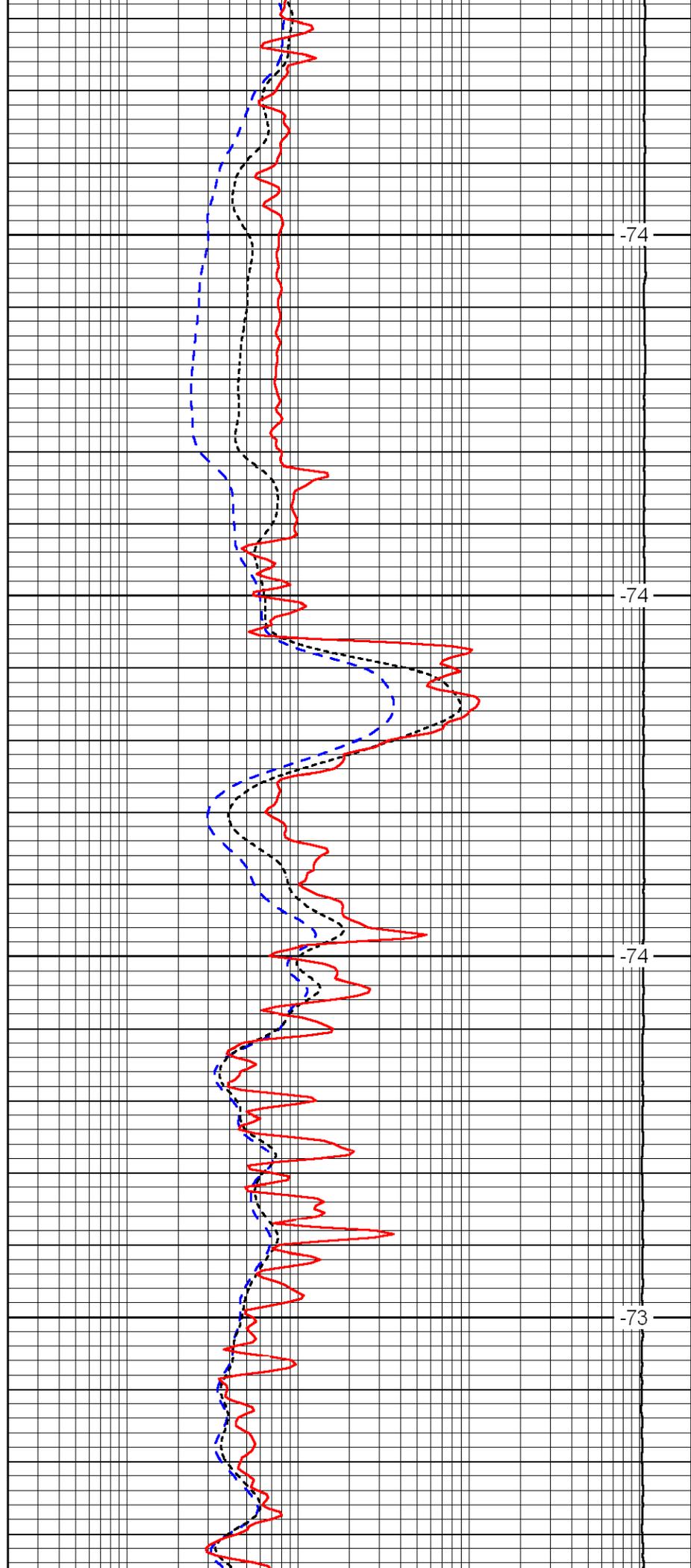


3300

3350

3400

3450

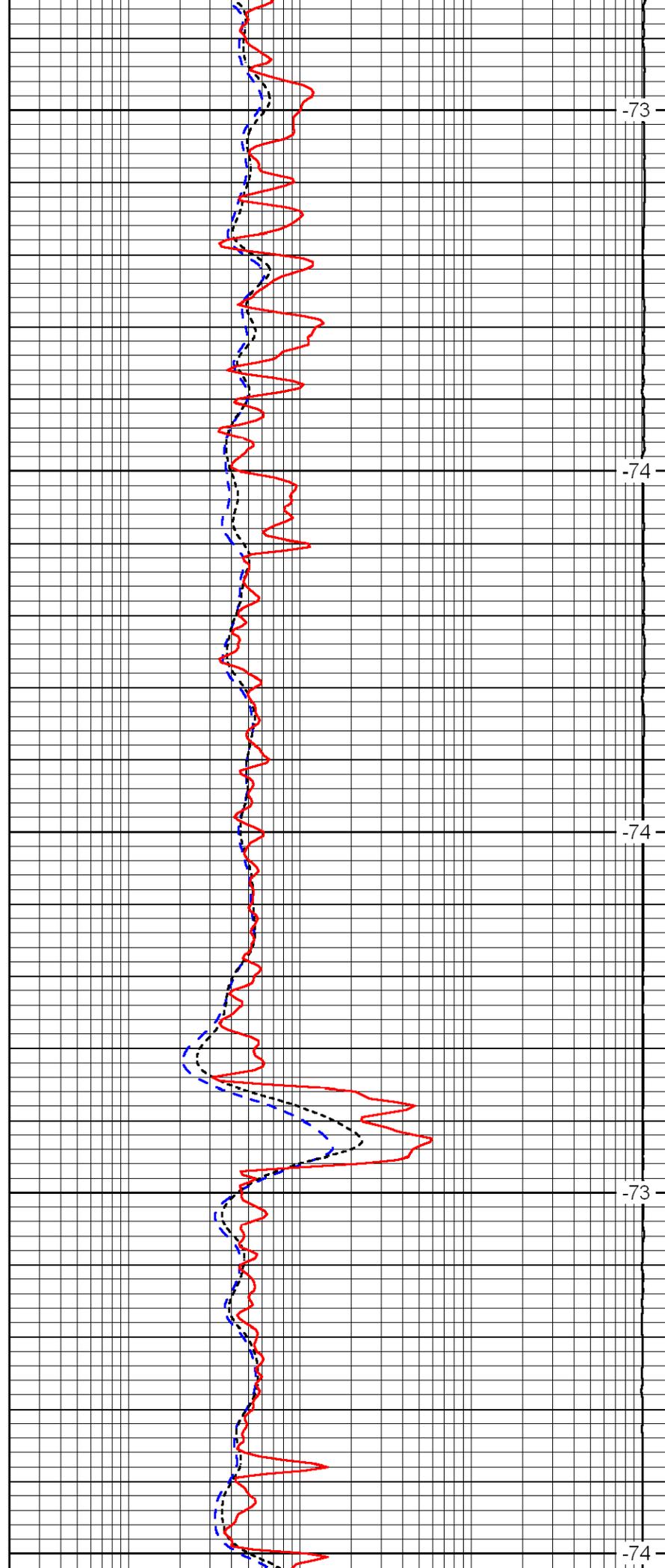
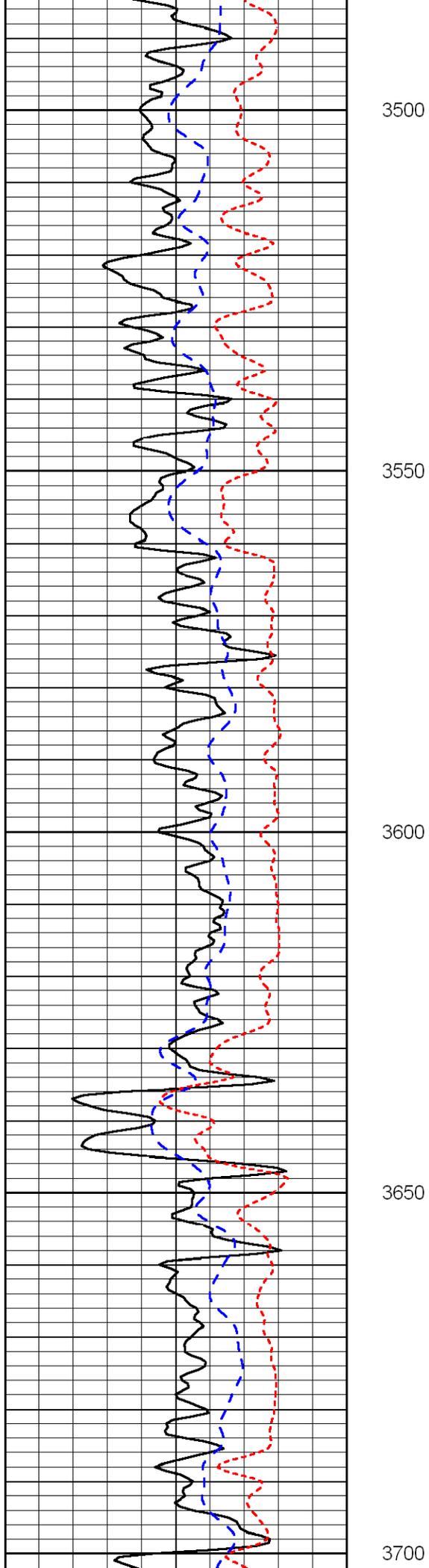


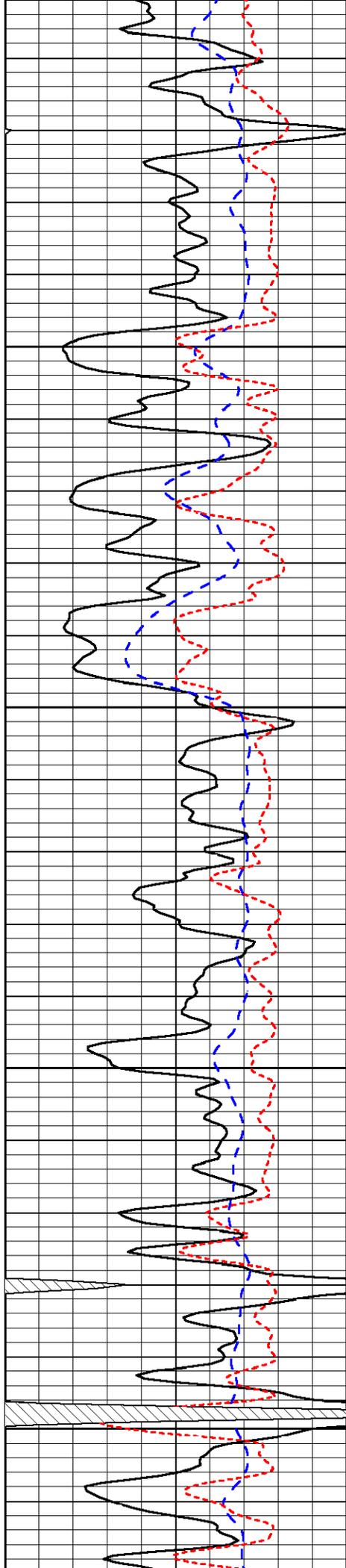
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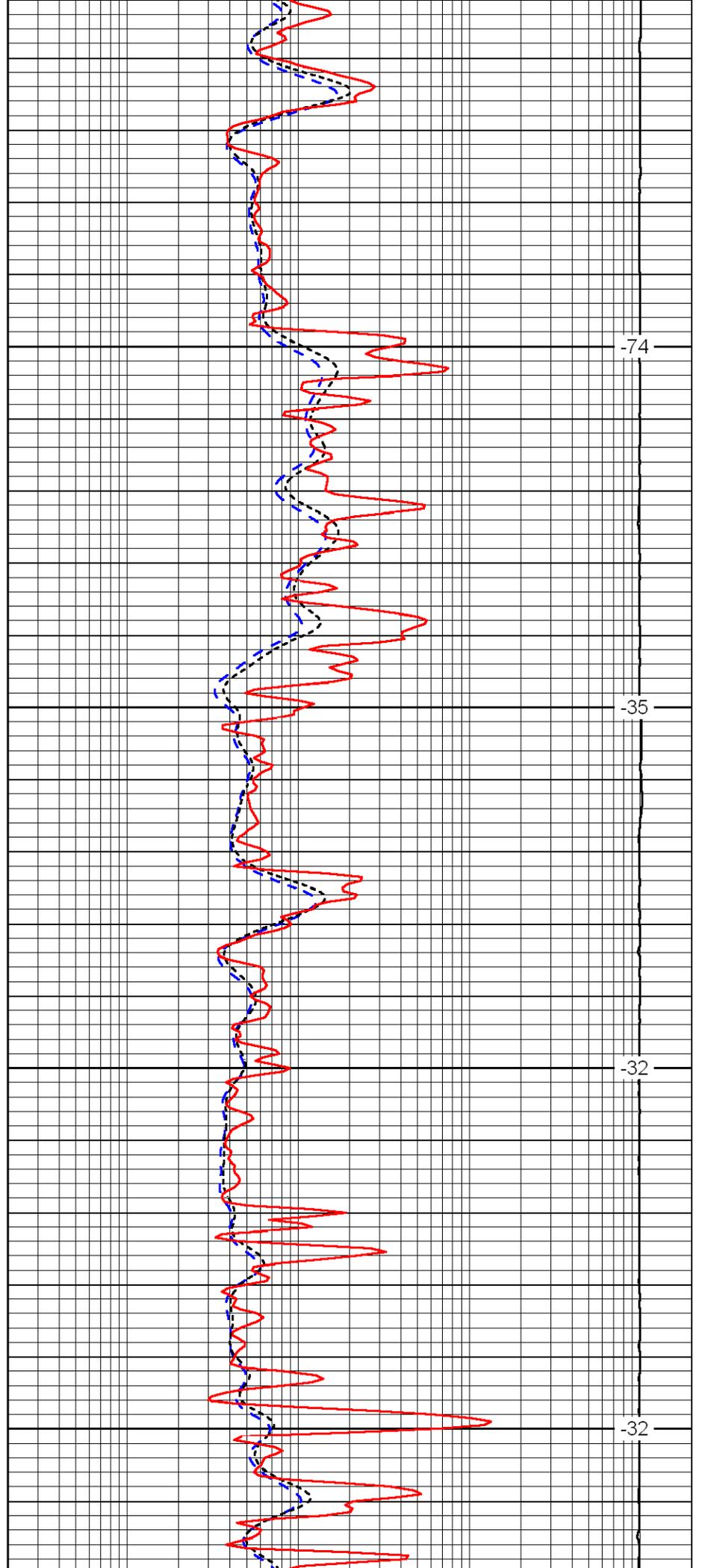


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3800

3850

3900

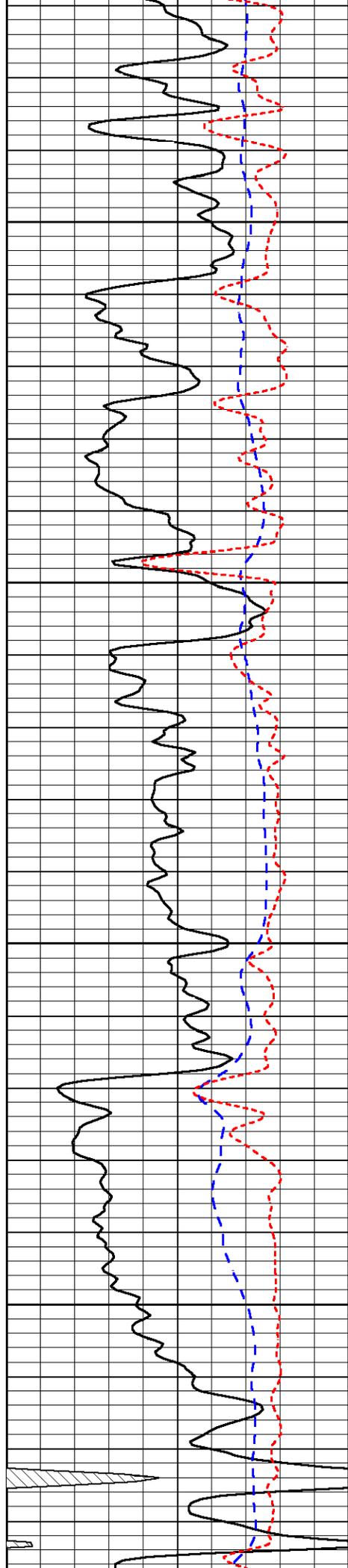


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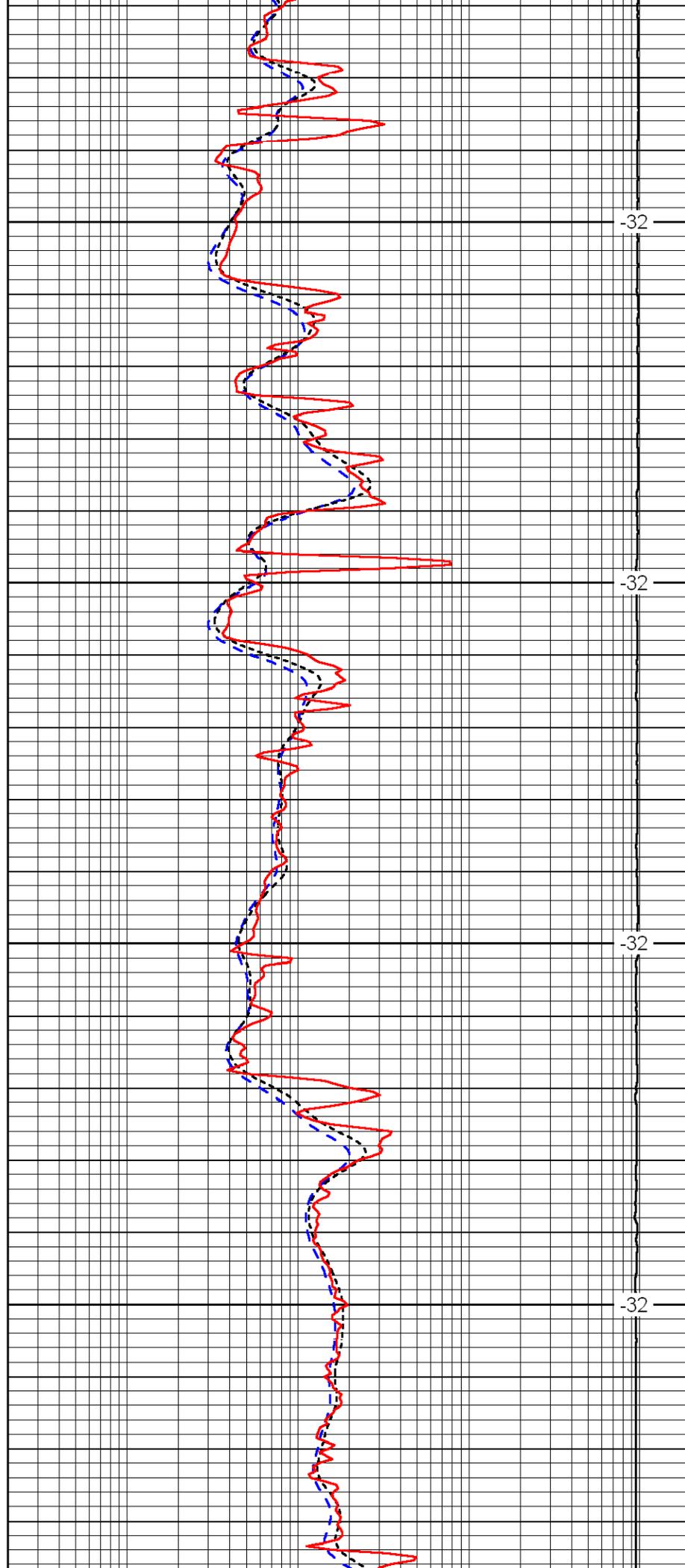


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4050

4100

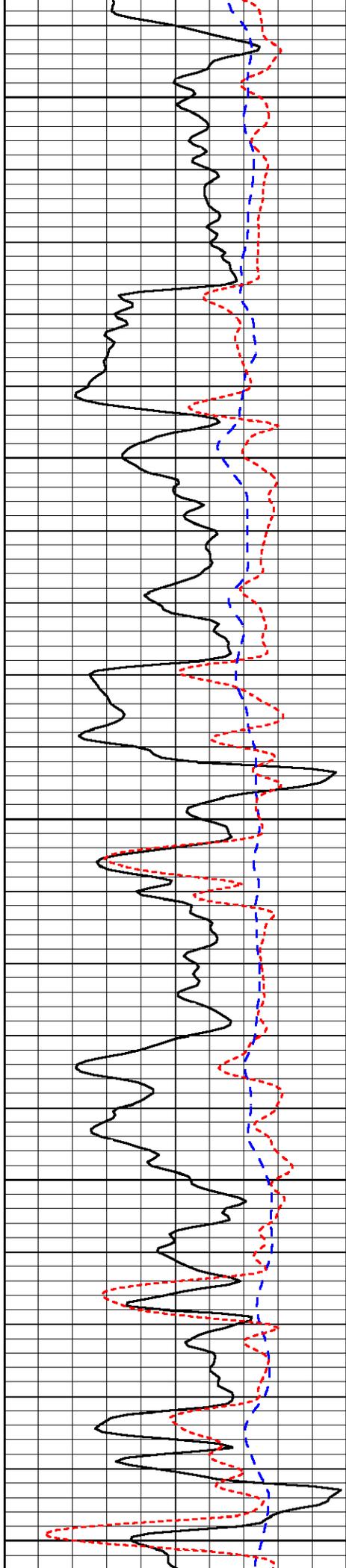


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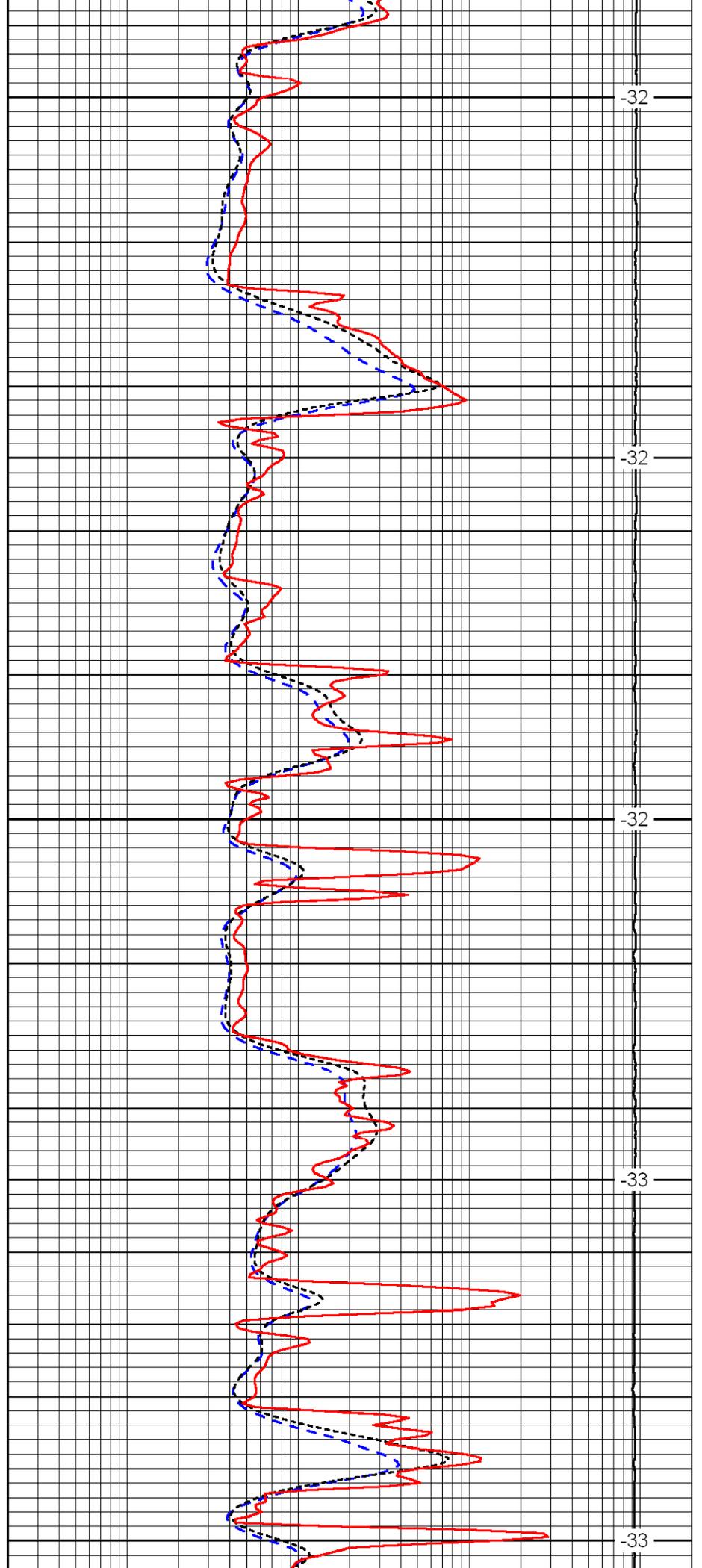
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4200

4250

4300

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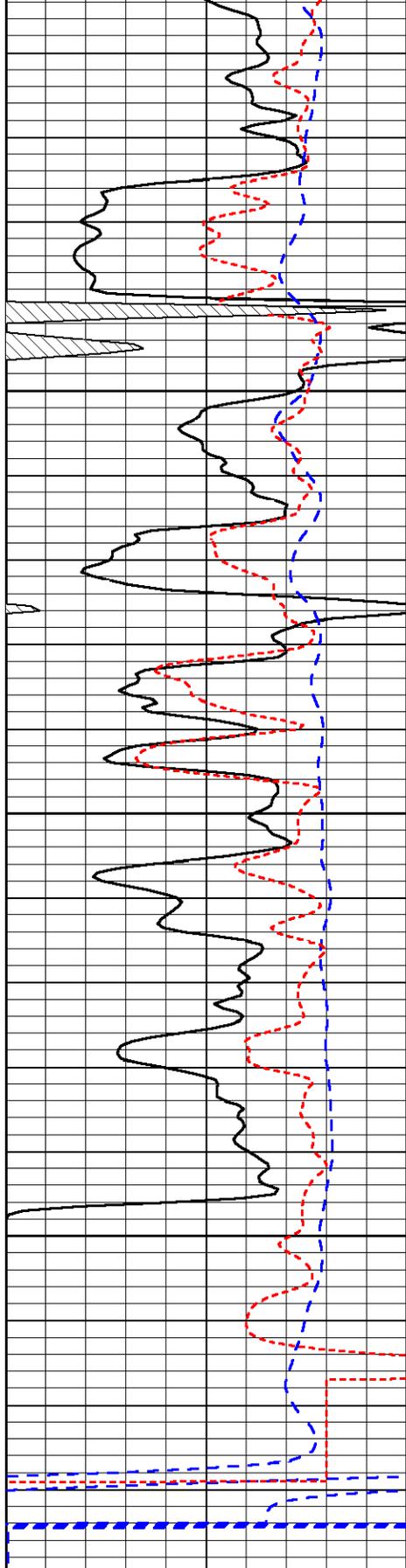
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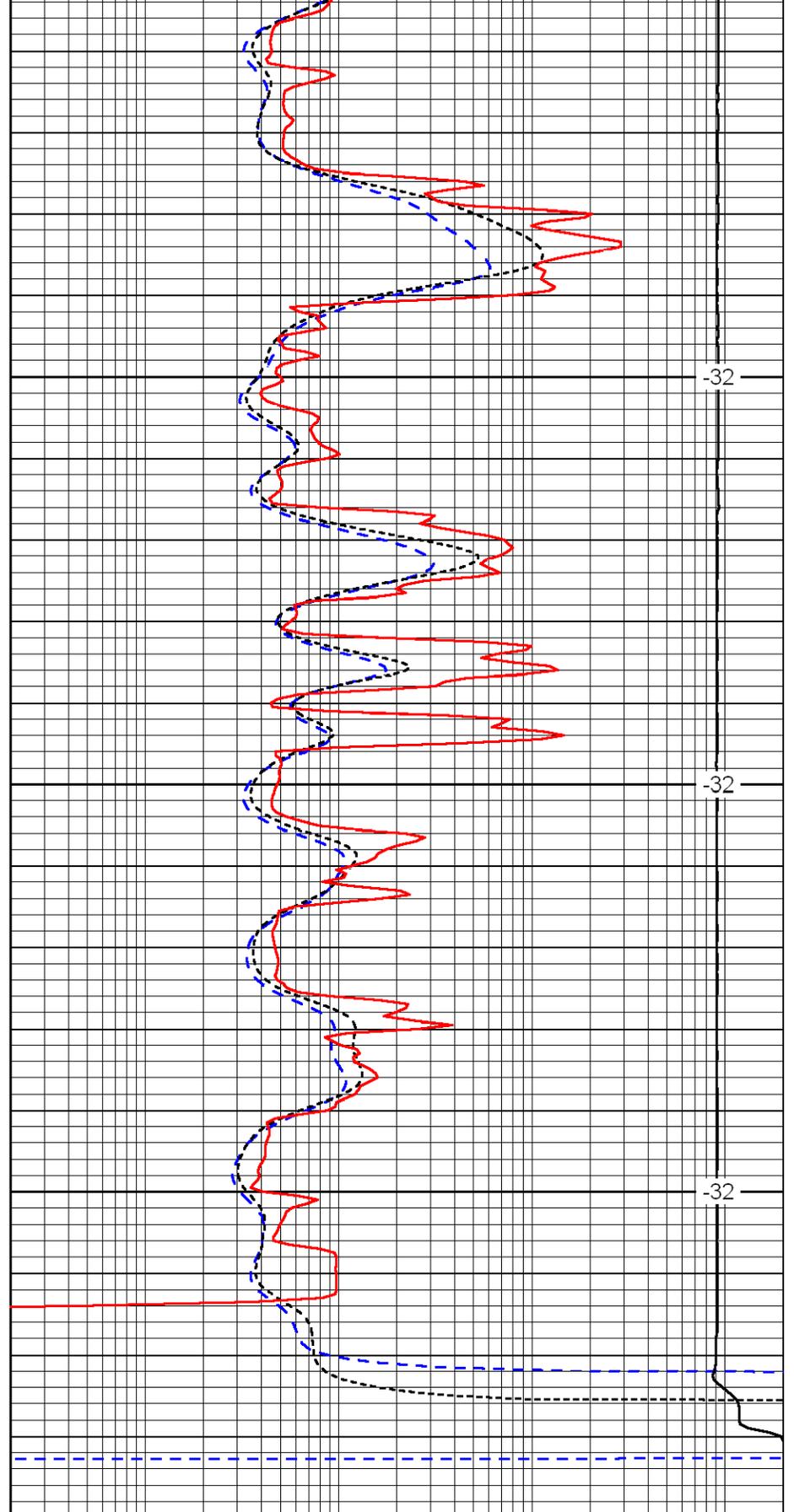


4400

4450

4500

|      |           |     |
|------|-----------|-----|
| 0    | Gamma Ray | 150 |
| -200 | SP (MV)   | 0   |
| -160 | Rxo / Rt  | 40  |



-32

-32

-32

|       |                             |      |
|-------|-----------------------------|------|
| 0.2   | Deep Resistivity (Ohm-m)    | 2000 |
| 0.2   | Medium Resistivity (Ohm-m)  | 2000 |
| 0.2   | Shallow Resistivity (Ohm-m) | 2000 |
| 15000 | Line Tension (lb)           | 0    |

LSPD  
(ft/min)