



DIGITAL LOG (785) 625-3858

Dual Induction Log

| | | |
|------------------------|--|---|
| API No. | 15-153-20884-00-00 | |
| Company | Murfin Drilling Company, Inc. | |
| Well | Cheney Trust 'A' No. 2-25 | |
| Field | Cheney Trust | |
| County | Rawlins | State Kansas |
| Location | NE - NE - SW - SW 1200' FSL & 1150' FWL | |
| Sec: 25 | Twp: 5 S | Rge: 31 W |
| Permanent Datum | Ground Level | Elevation 2930 |
| Log Measured From | Kelly Bushing | 5 Ft. Above Perm. Datum |
| Drilling Measured From | Kelly Bushing | |
| | | Other Services CNL/CDL MEL/BHCS |
| | | Elevation K.B. 2935 D.F. G.L. 2930 |

| | |
|------------------------|--------------|
| Date | 5/17/2010 |
| Run Number | One |
| Depth Driller | 4450 |
| Depth Logger | 4449 |
| Bottom Logged Interval | 4448 |
| Top Log Interval | 0 |
| Casing Driller | 8.625 @ 234 |
| Casing Logger | 228 |
| Bit Size | 7.875 |
| Type Fluid in Hole | Chemical |
| Salinity, ppm CL | 2.500 |
| Density / Viscosity | 9.2 69 |
| pH / Fluid Loss | 10.5 6.0 |
| Source of Sample | Flowline |
| Rm @ Meas. Temp | 1.90 @ 55 |
| Rmf @ Meas. Temp | 1.43 @ 55 |
| Rmc @ Meas. Temp | 2.57 @ 55 |
| Source of Rmf / Rmc | Charts |
| Rm @ BHT | 0.87 @ 121 |
| Operating Rig Time | 5 Hours |
| Max Rec. Temp. F | 121 |
| Equipment Number | 15 |
| Location | Hays |
| Recorded By | B. Becker |
| Witnessed By | Steve Miller |

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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

Rexford, Ks; 7 North to County Line;
1 West; 1 North; East into location

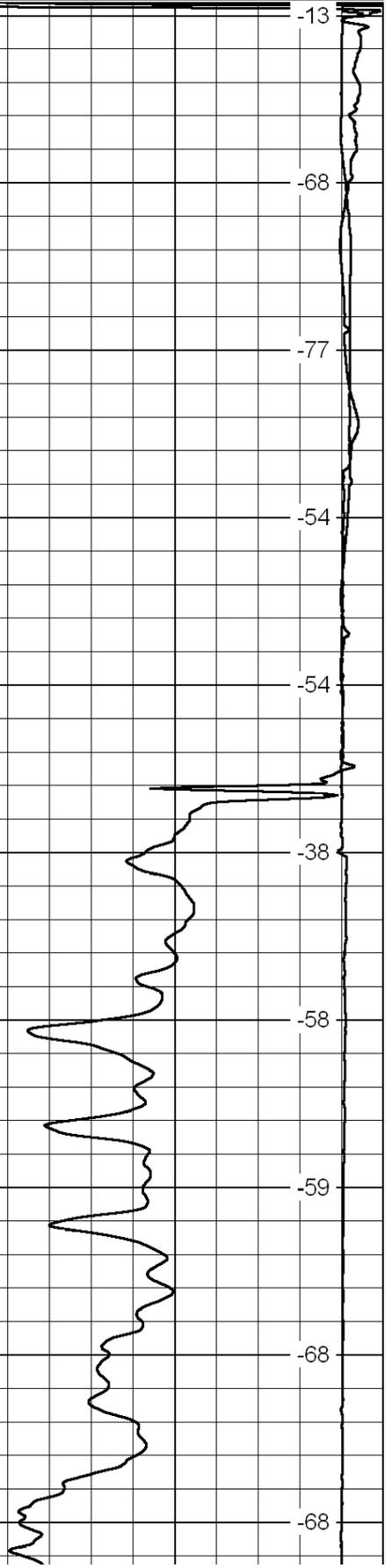
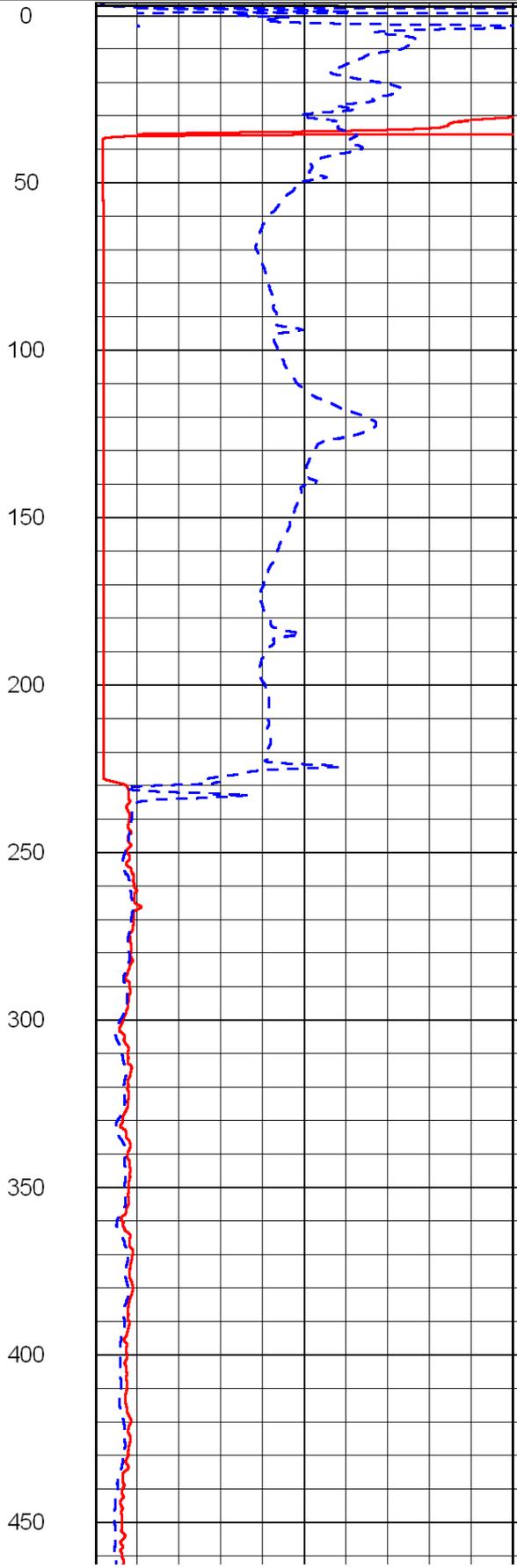
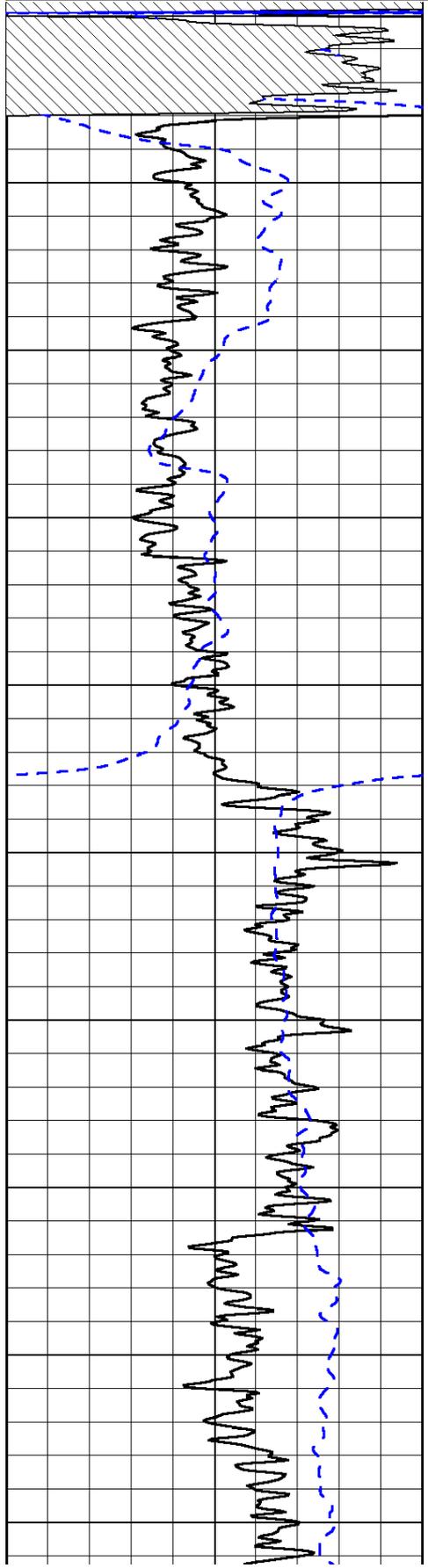
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|------|-----------|-----|
| 0 | Gamma Ray | 150 |
| -200 | SP (mV) | 0 |

| | | |
|---|---------------------|----|
| 0 | Shallow Resistivity | 50 |
| 0 | Deep Resistivity | 50 |

LSPD

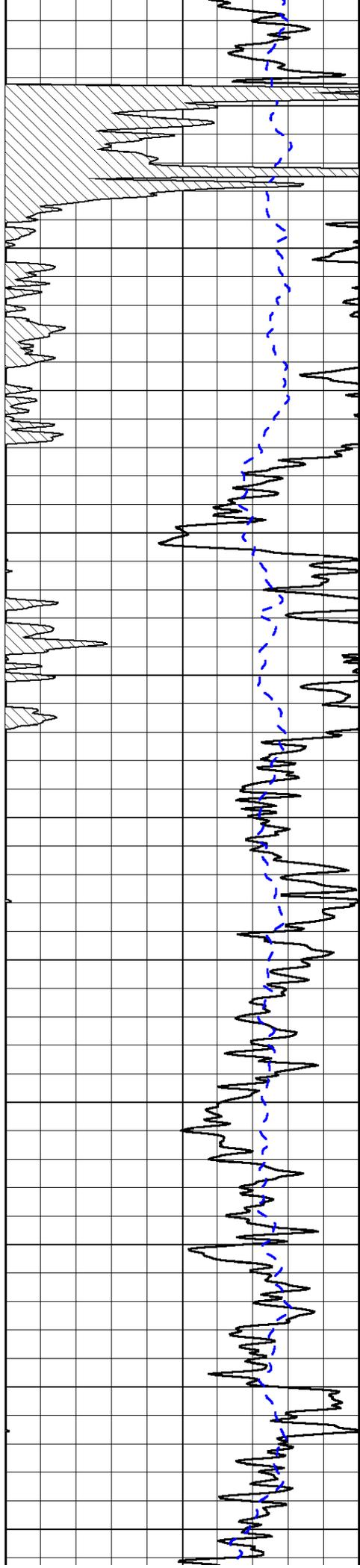
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|-------|--------------|---|
| 1000 | Conductivity | 0 |
| 15000 | Line Tension | 0 |

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|----|---------------------|-----|
| 50 | Shallow Resistivity | 500 |
| 50 | Deep Resistivity | 500 |

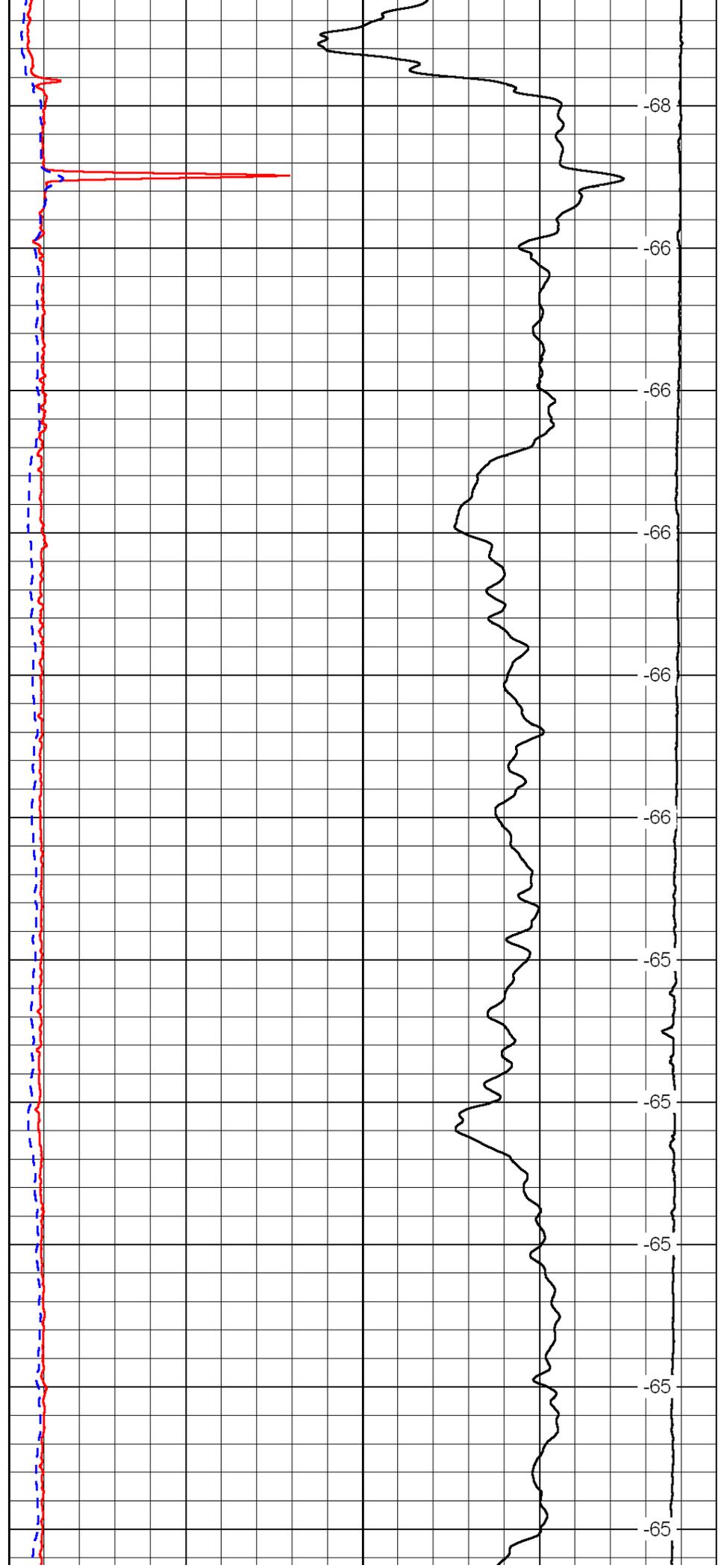


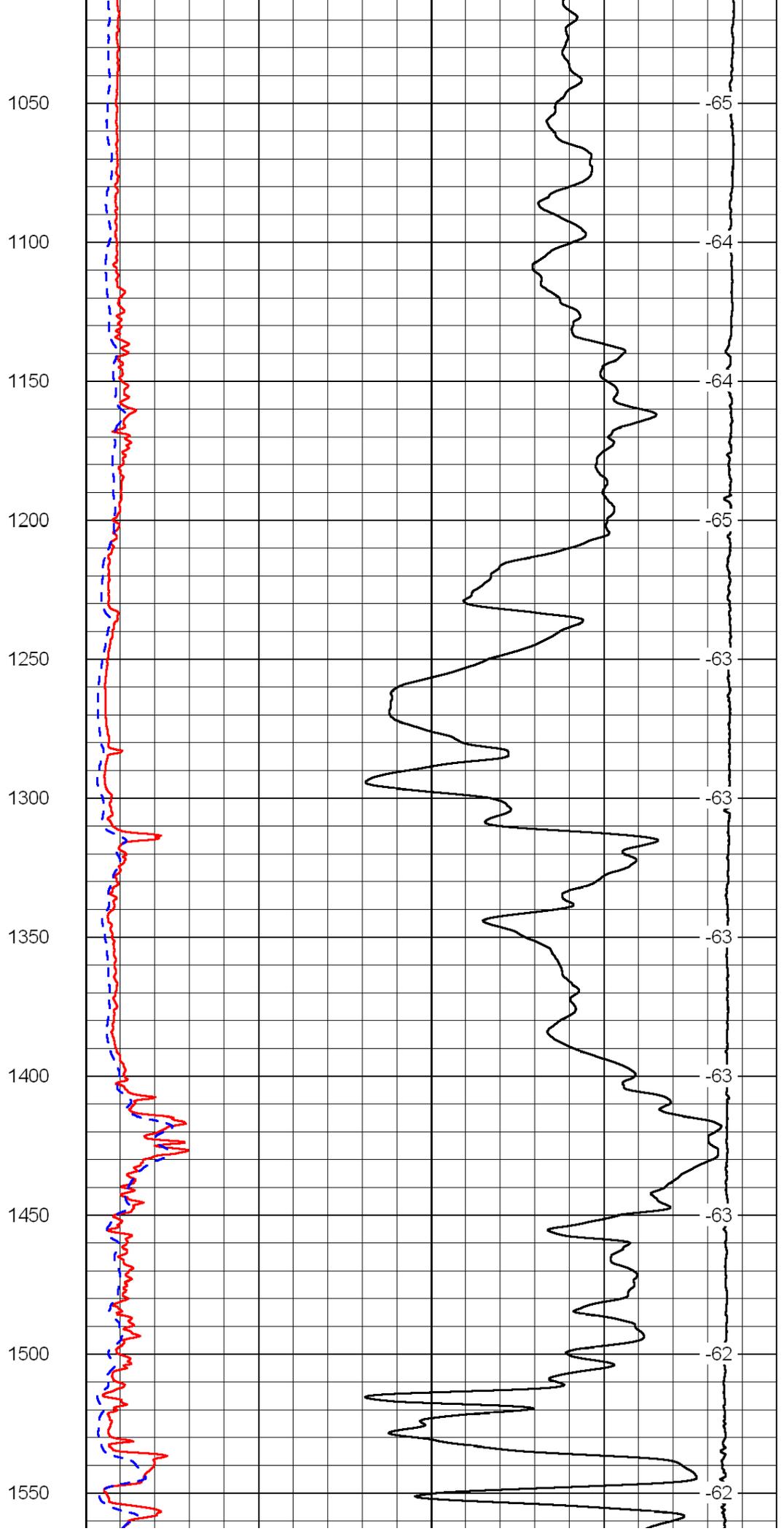
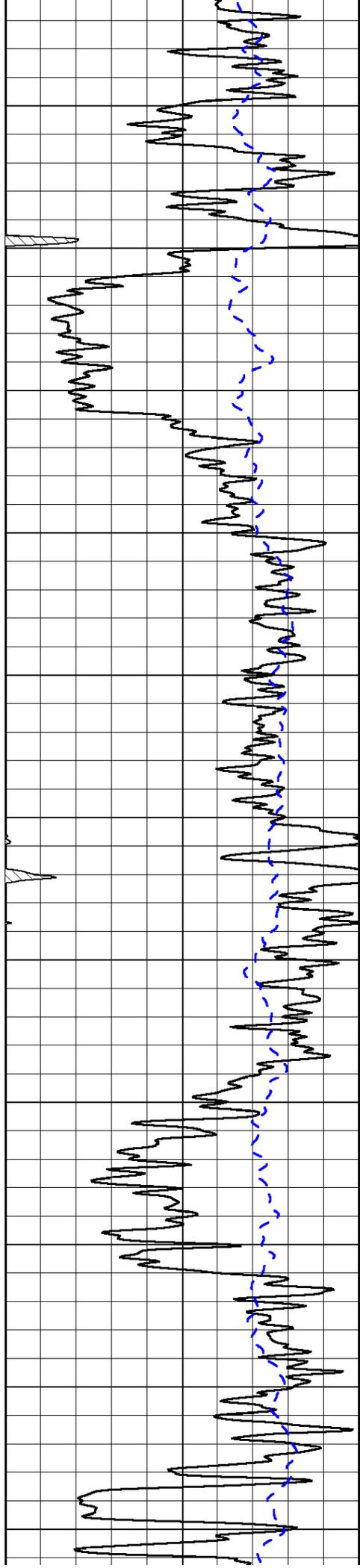
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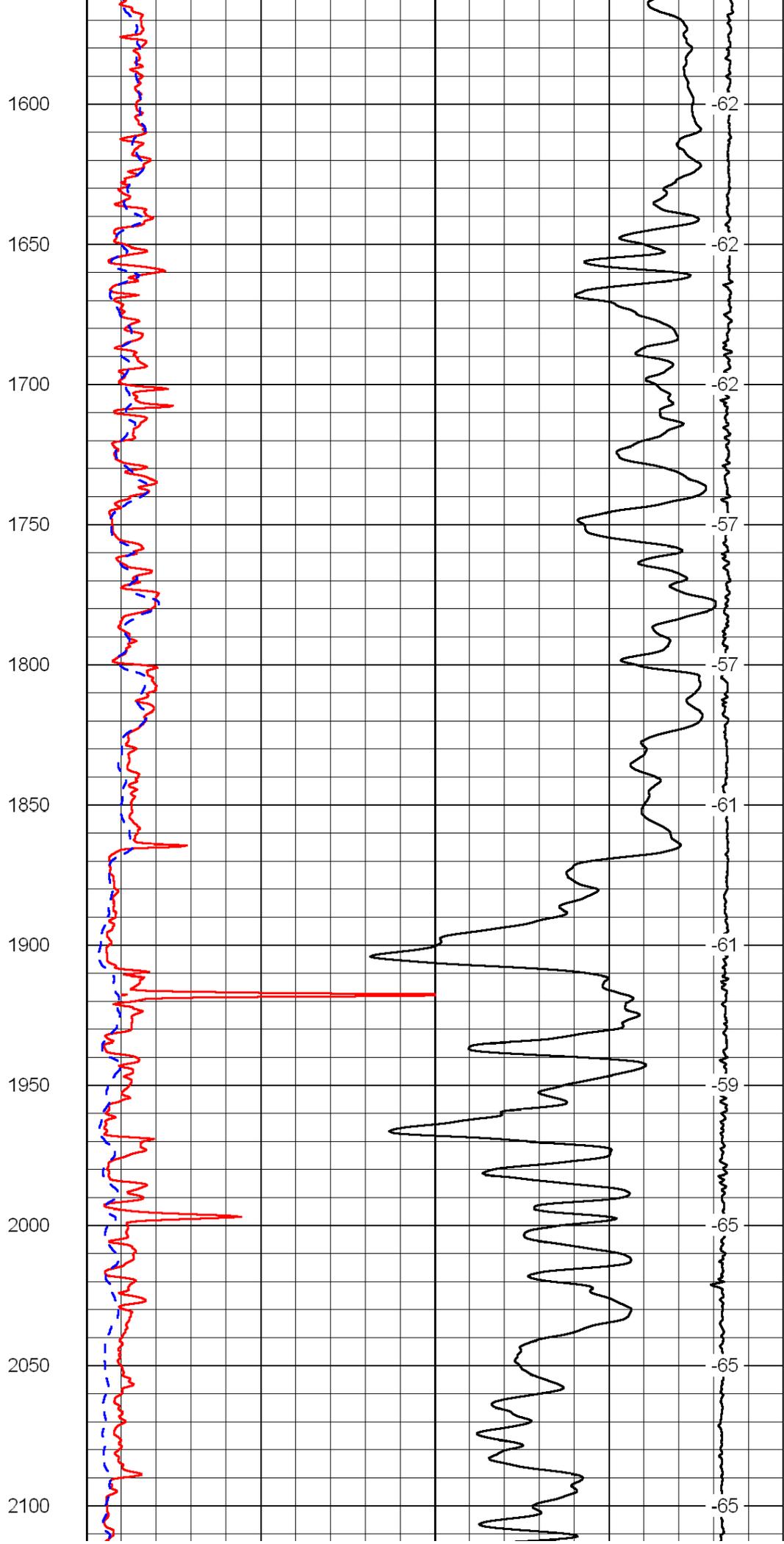
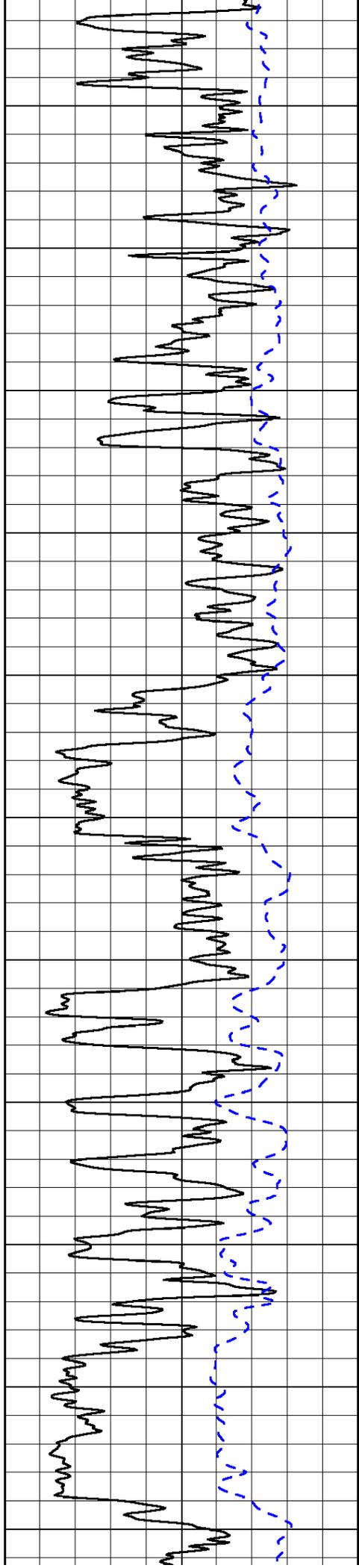
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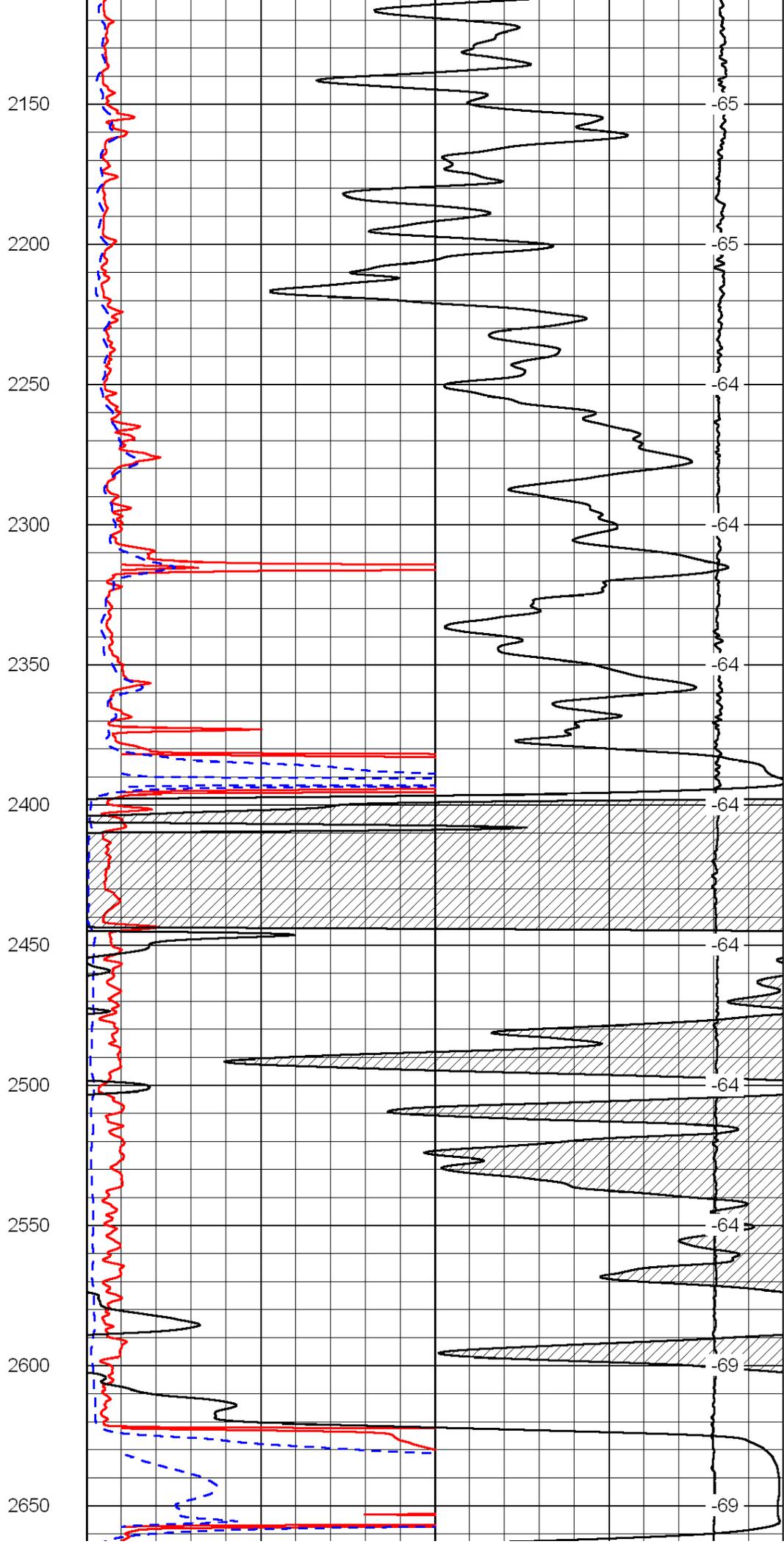
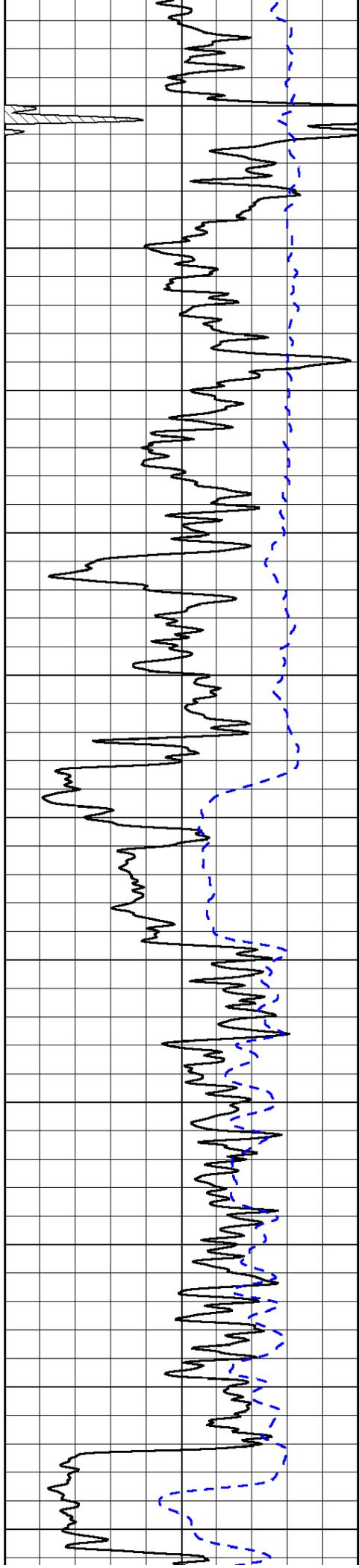


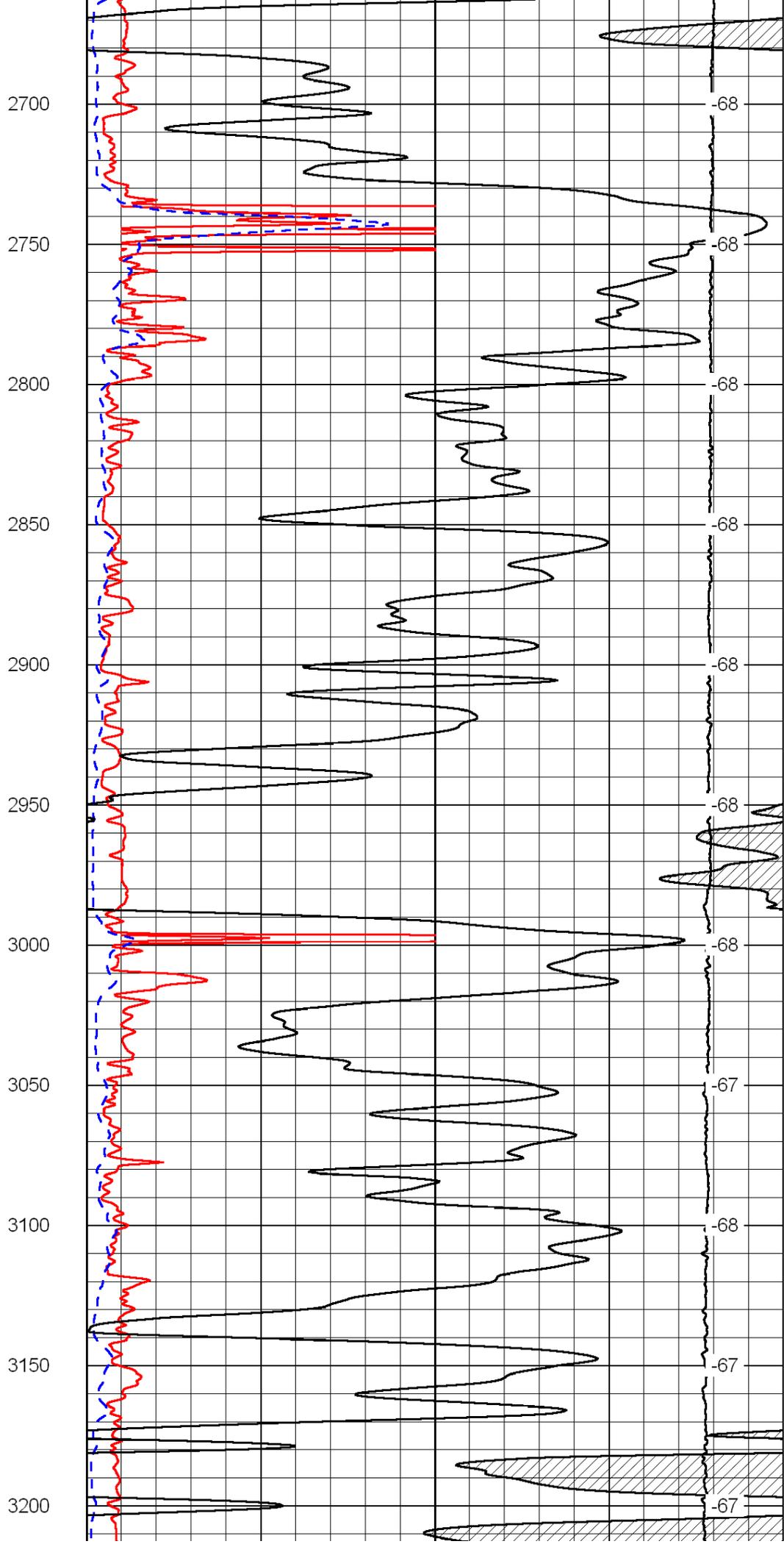
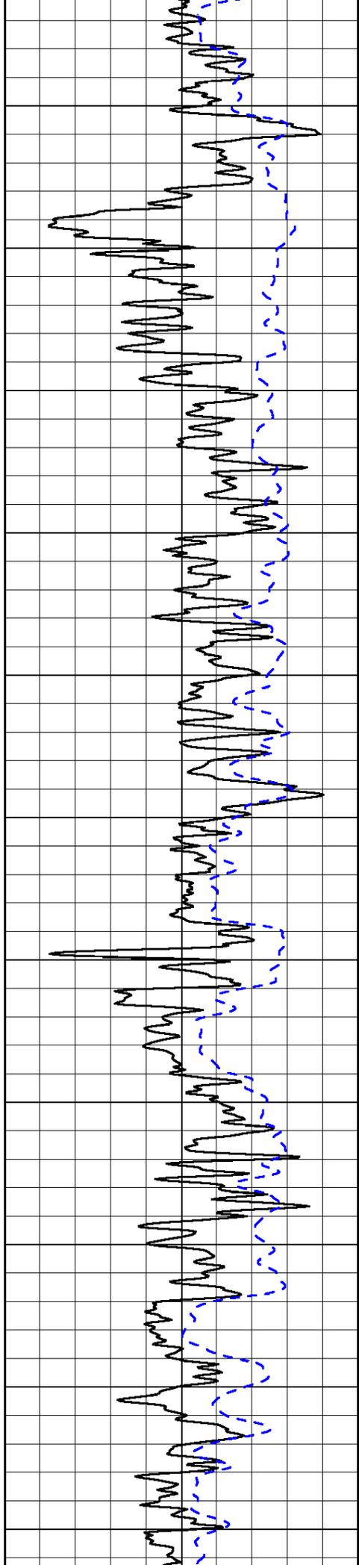
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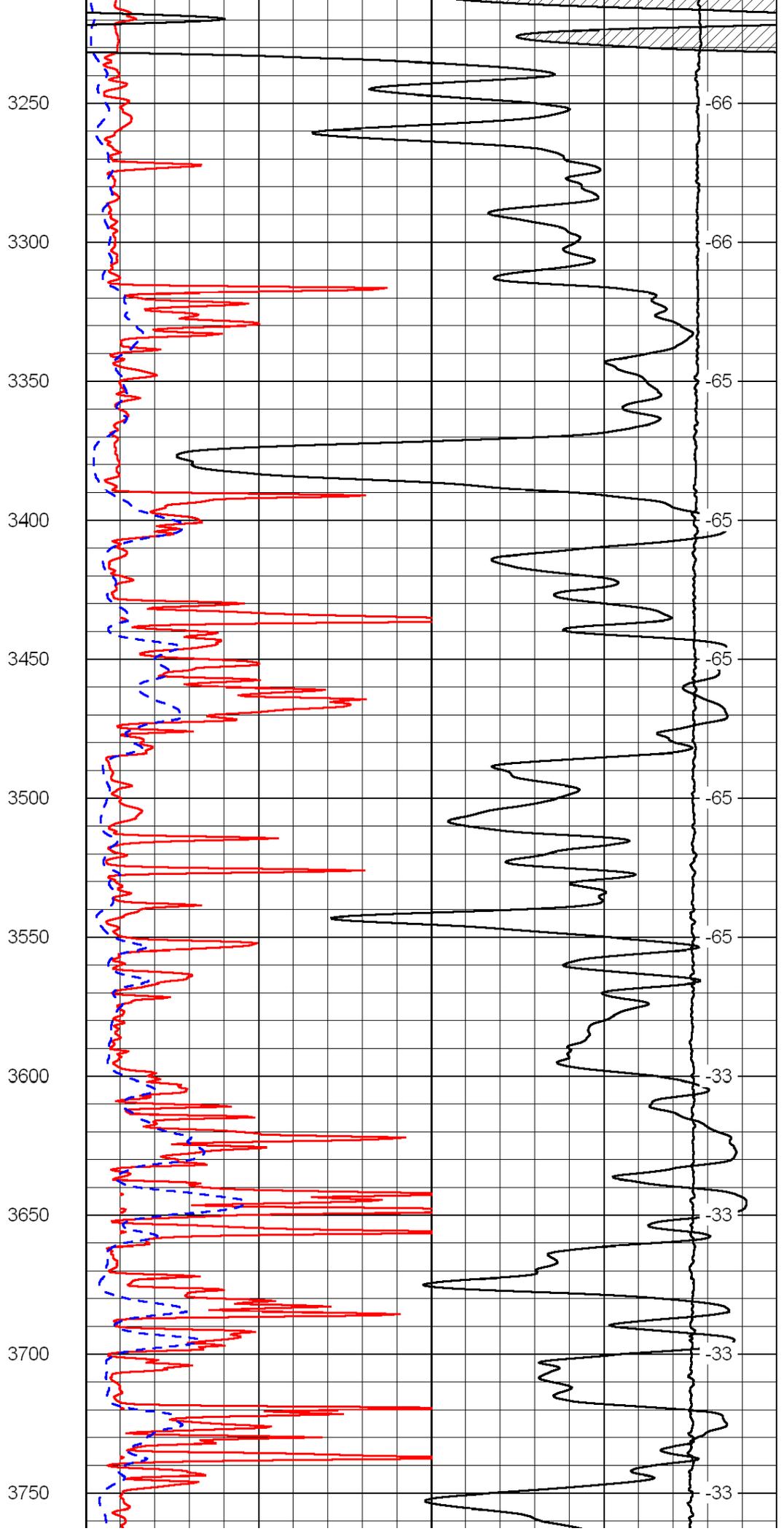
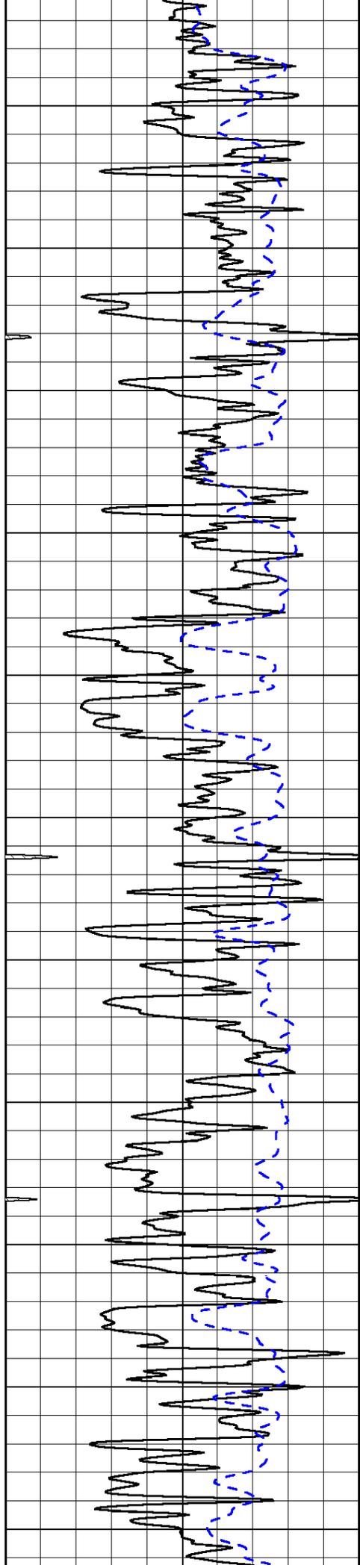


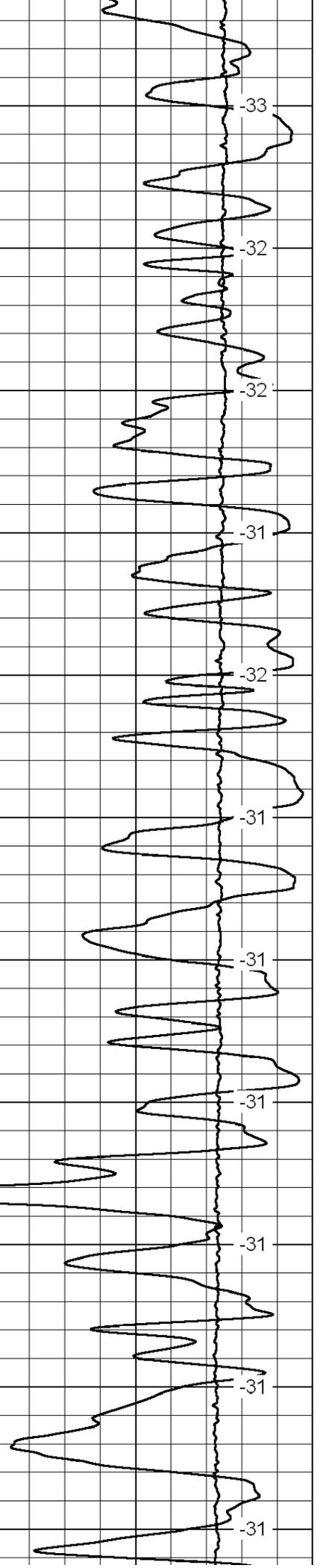
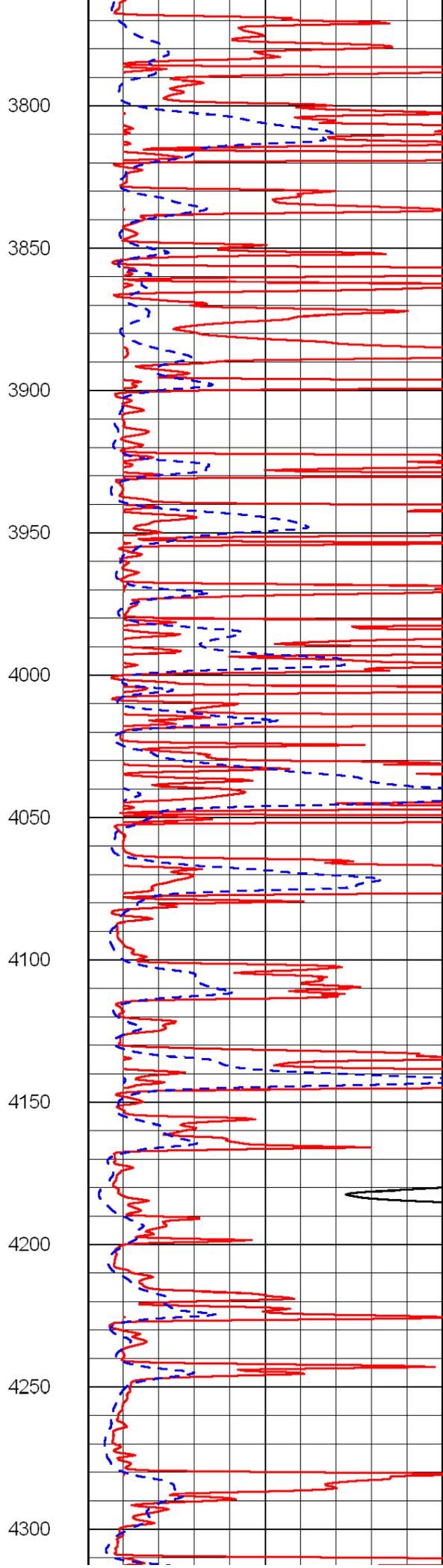
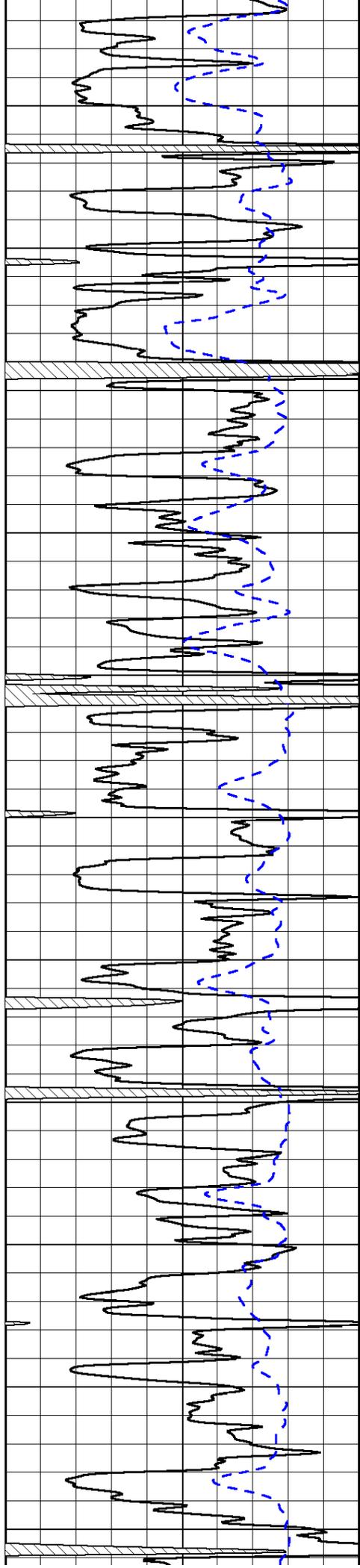


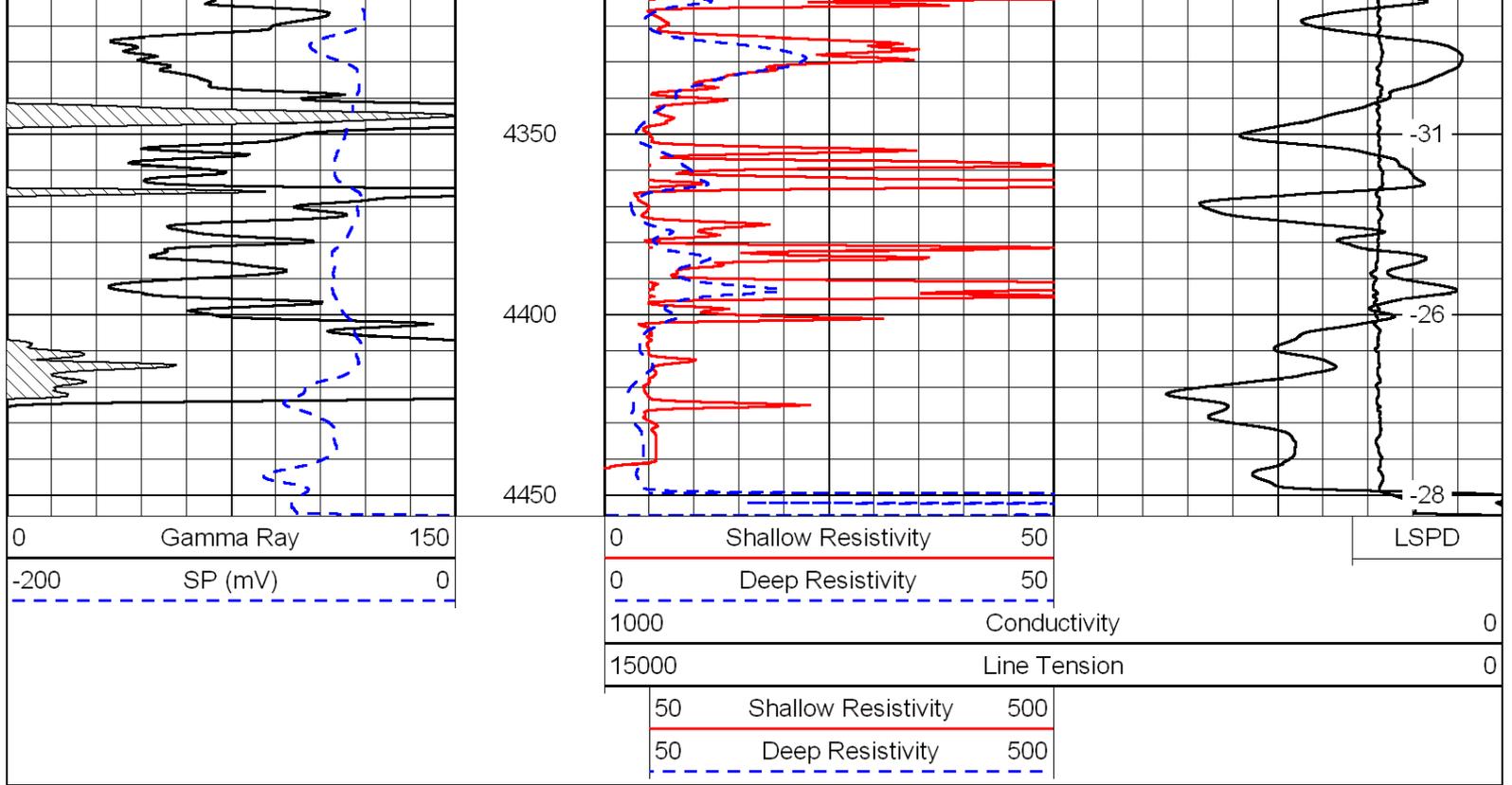




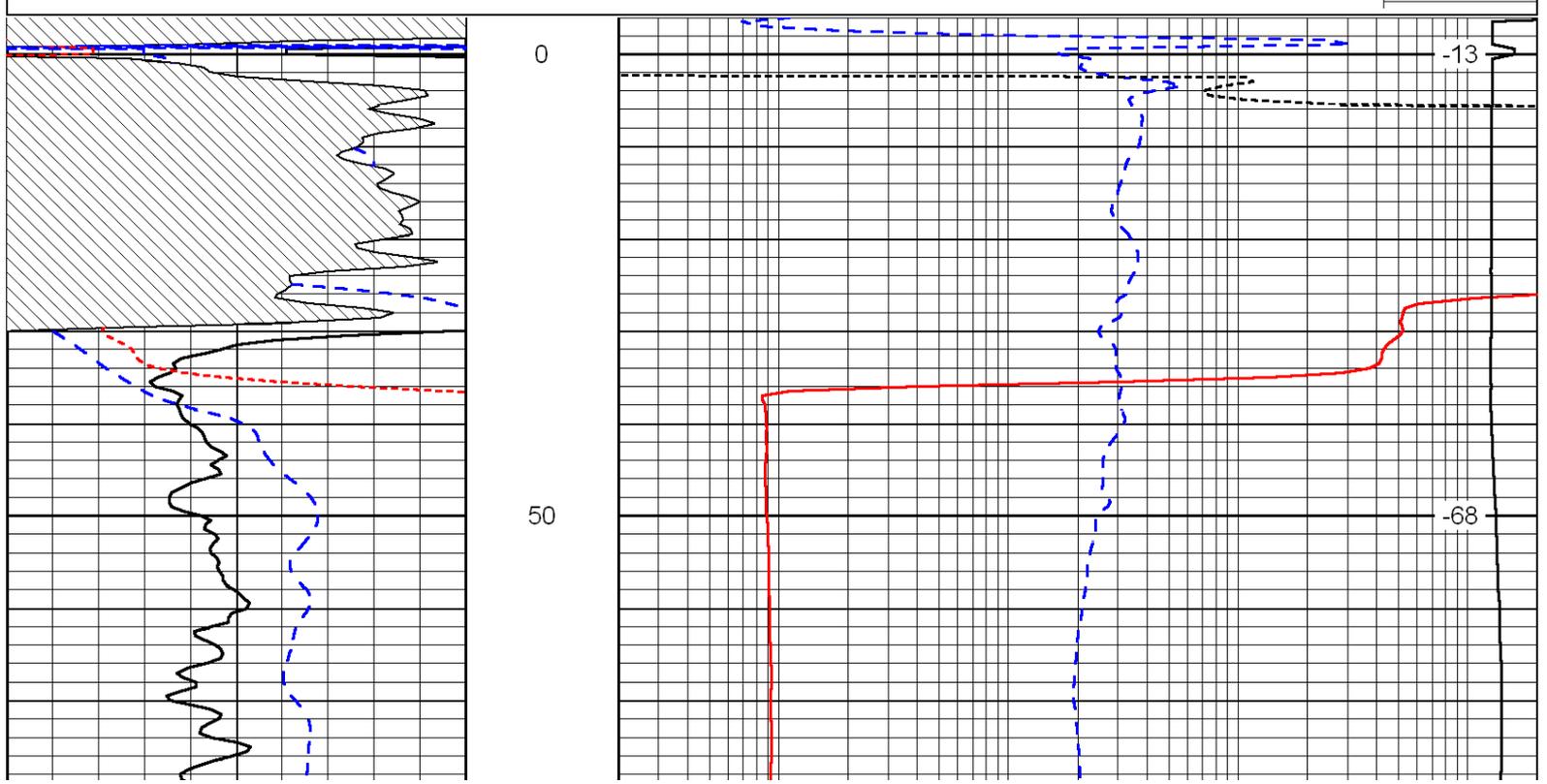
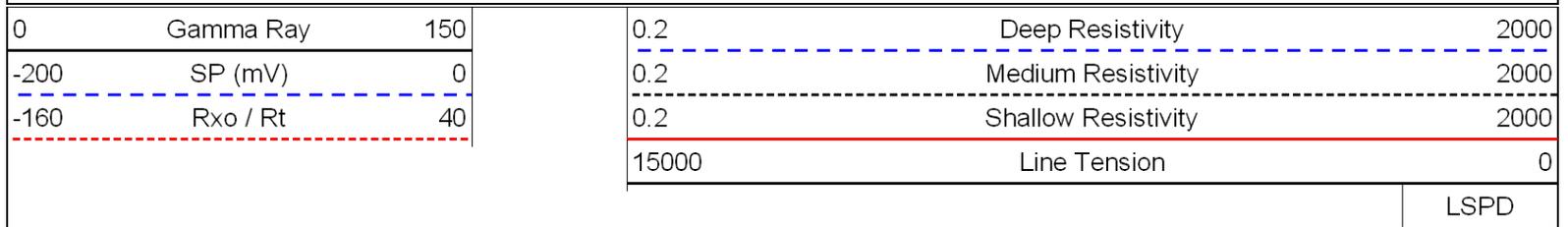


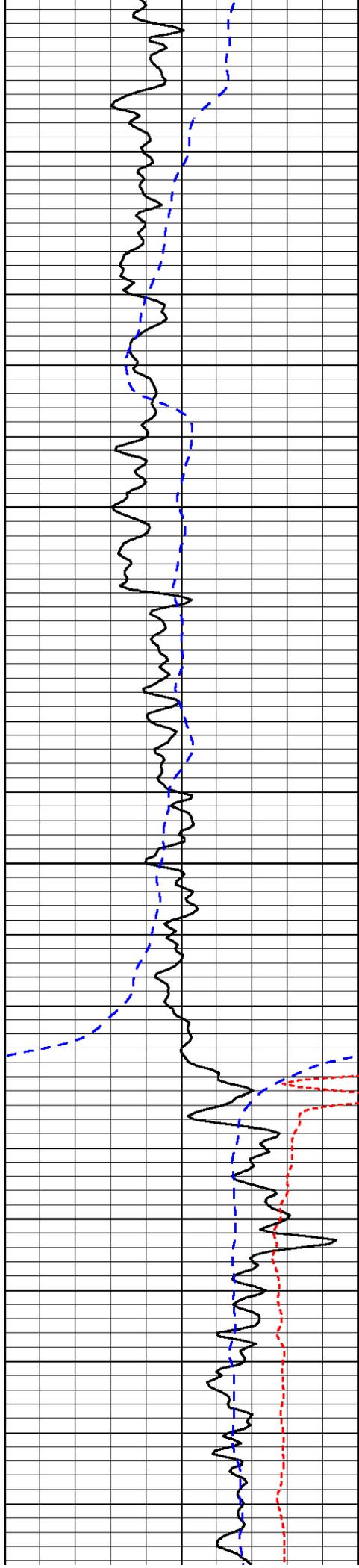






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 Presentation Format: dil
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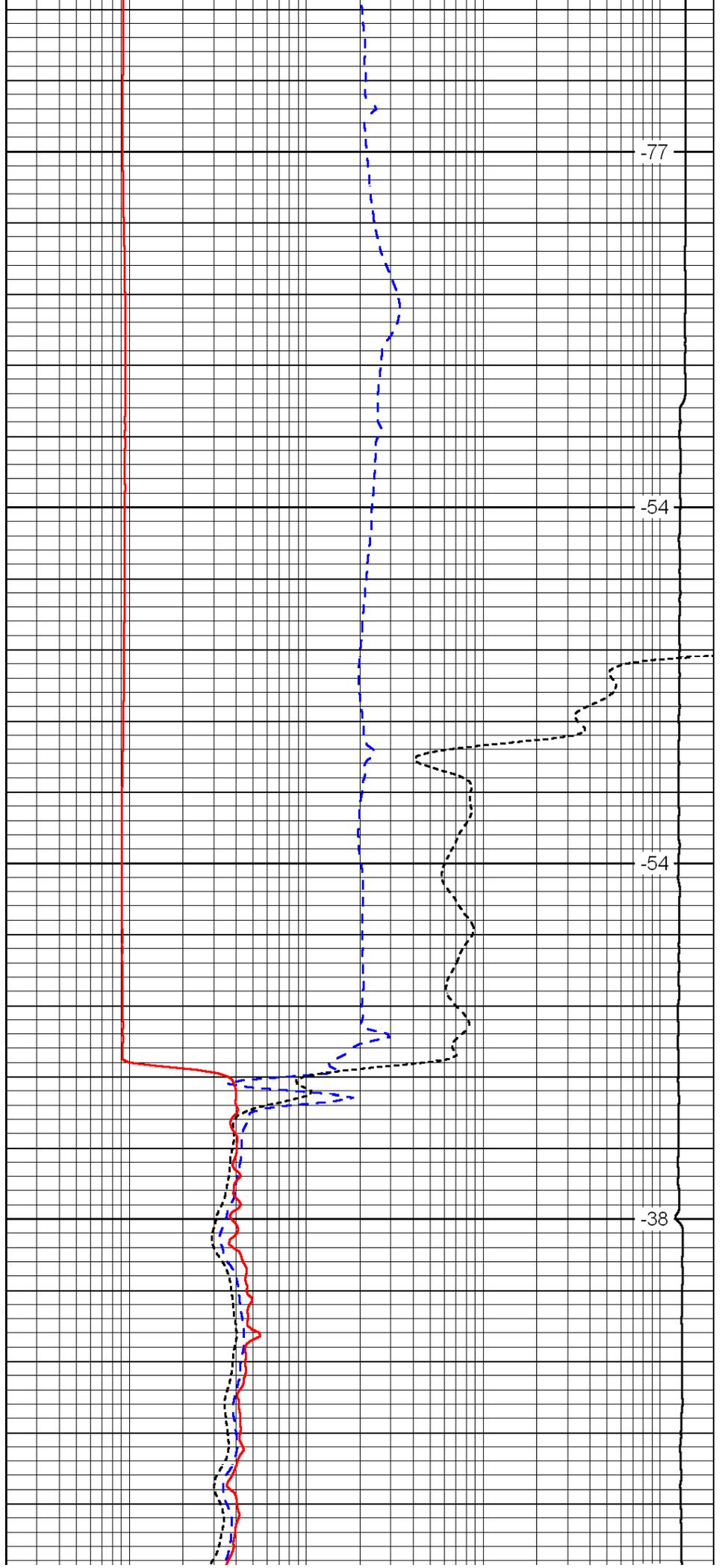


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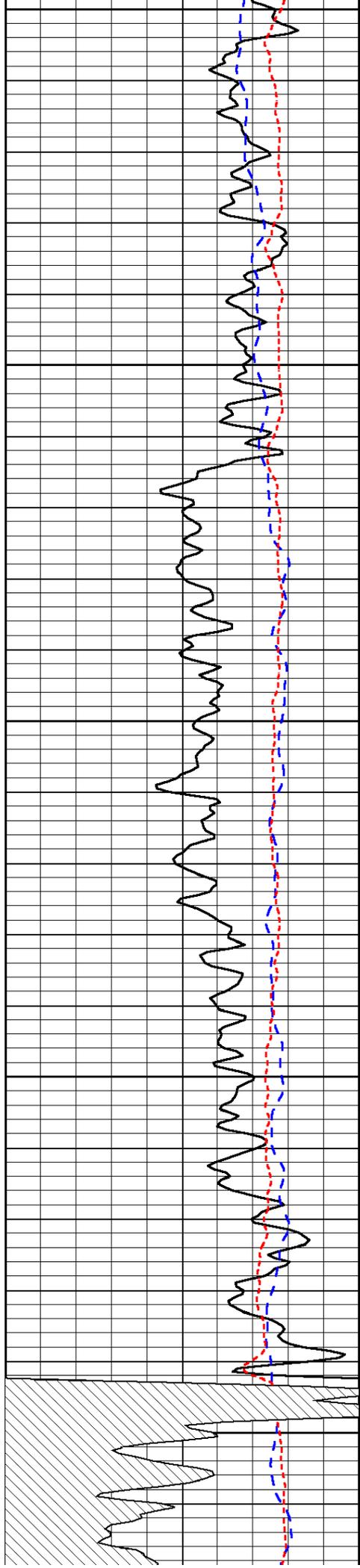


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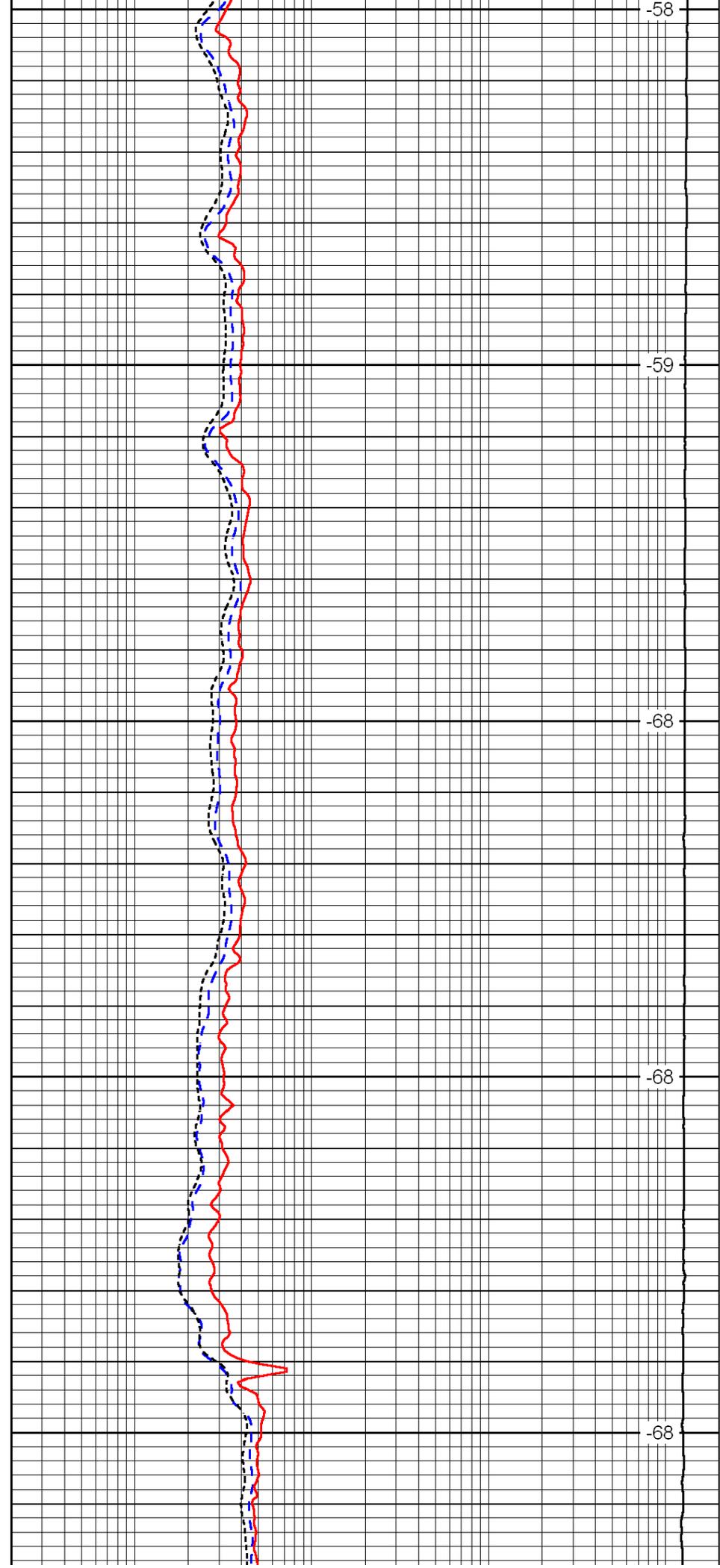
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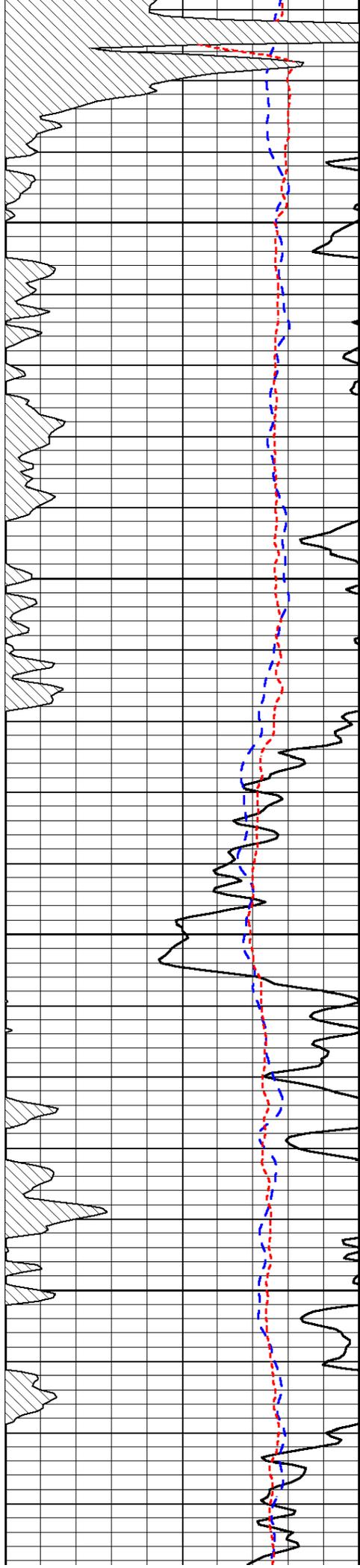
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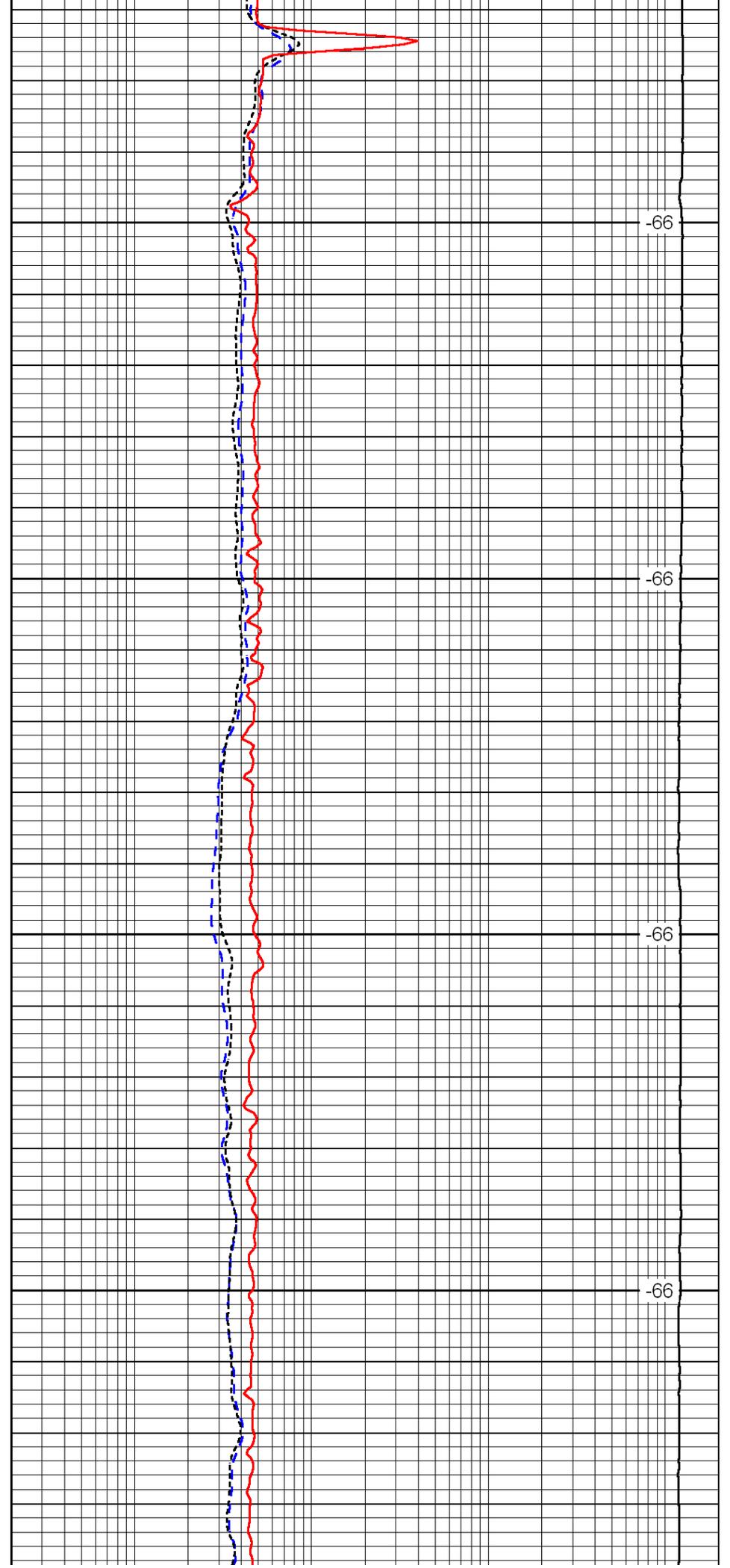


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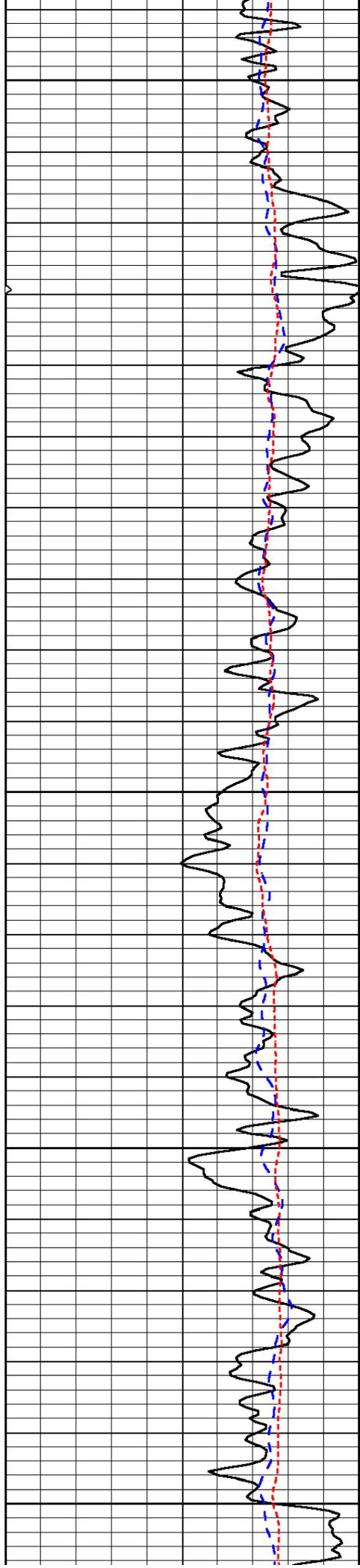


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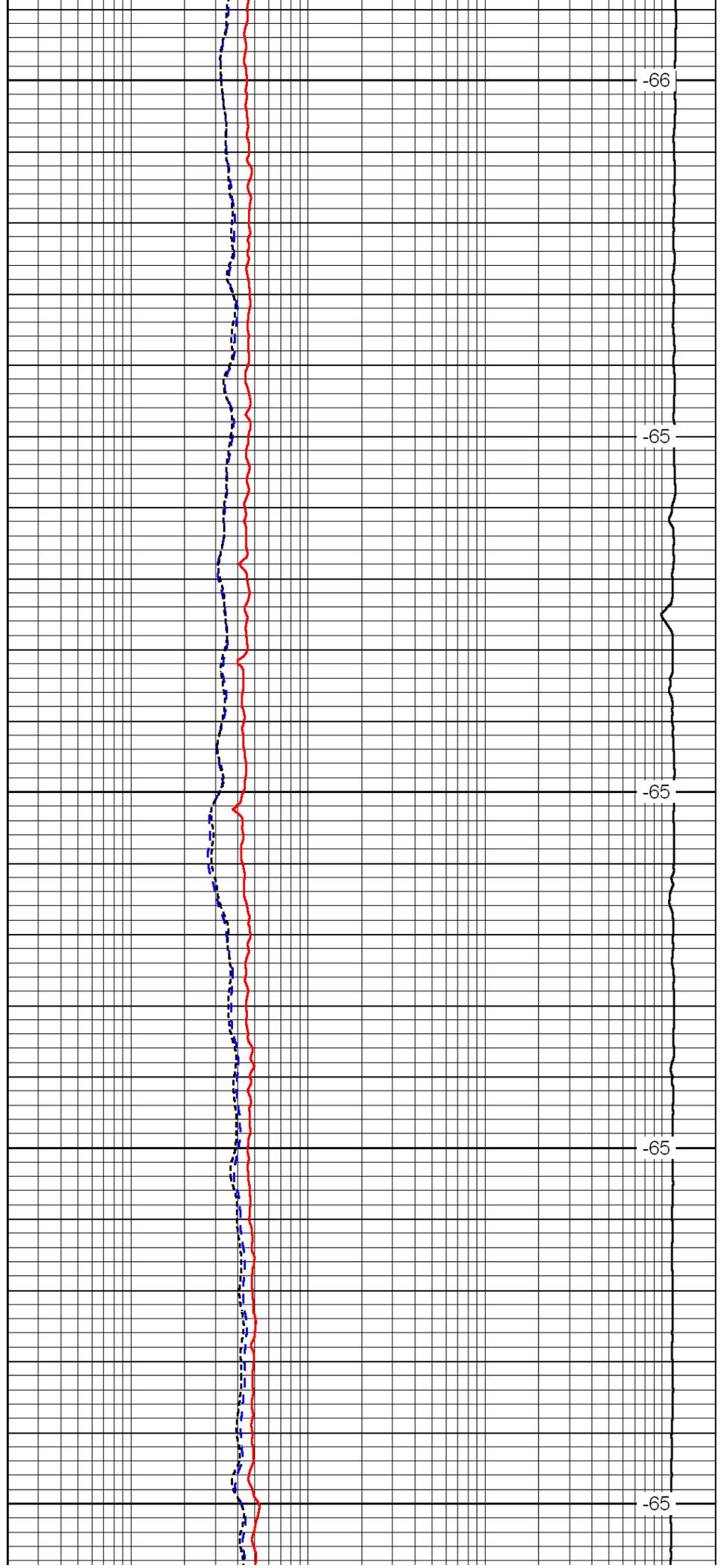
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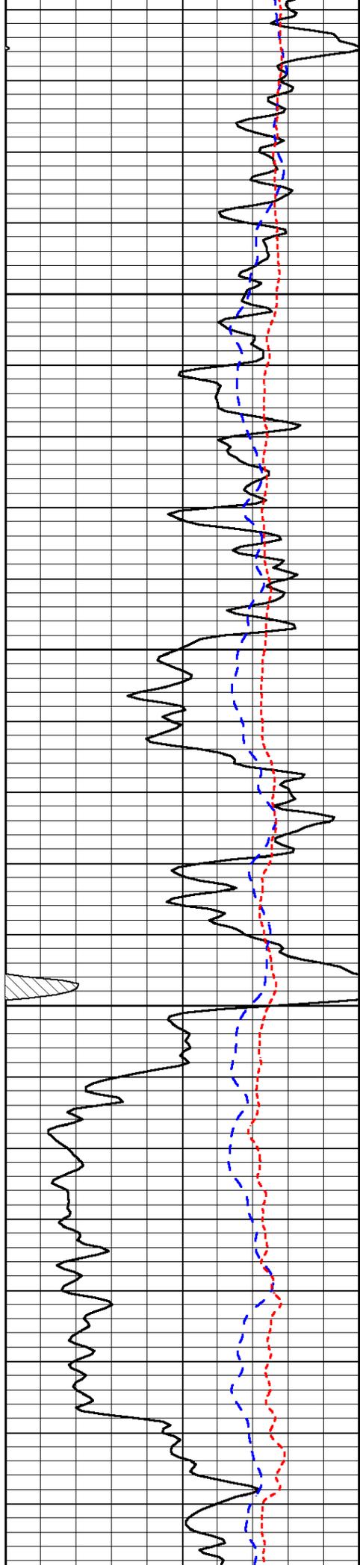
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1050

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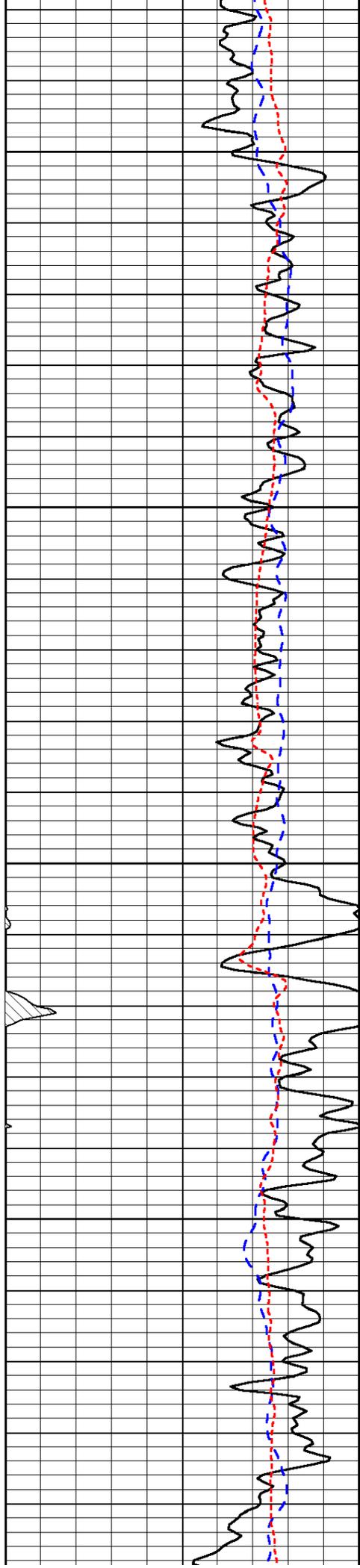
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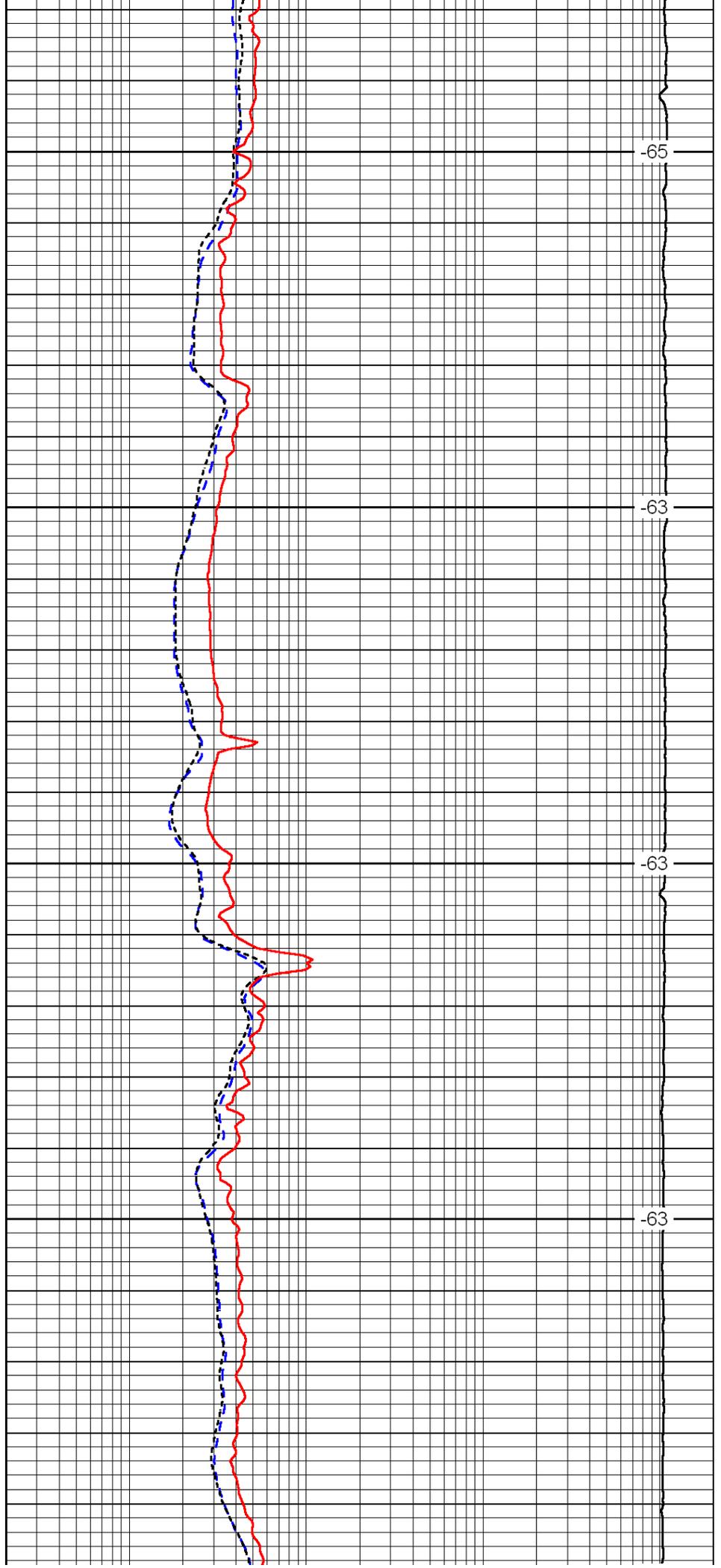


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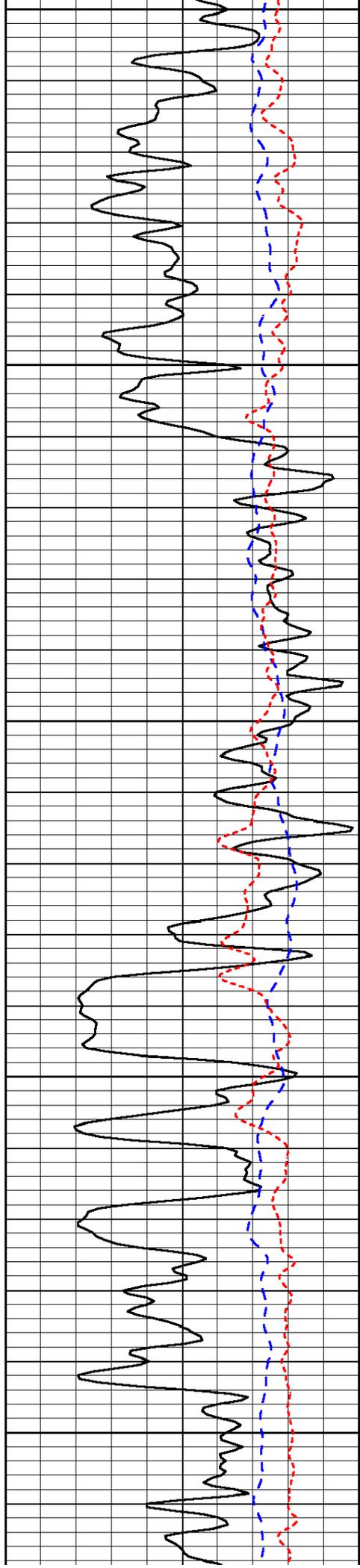


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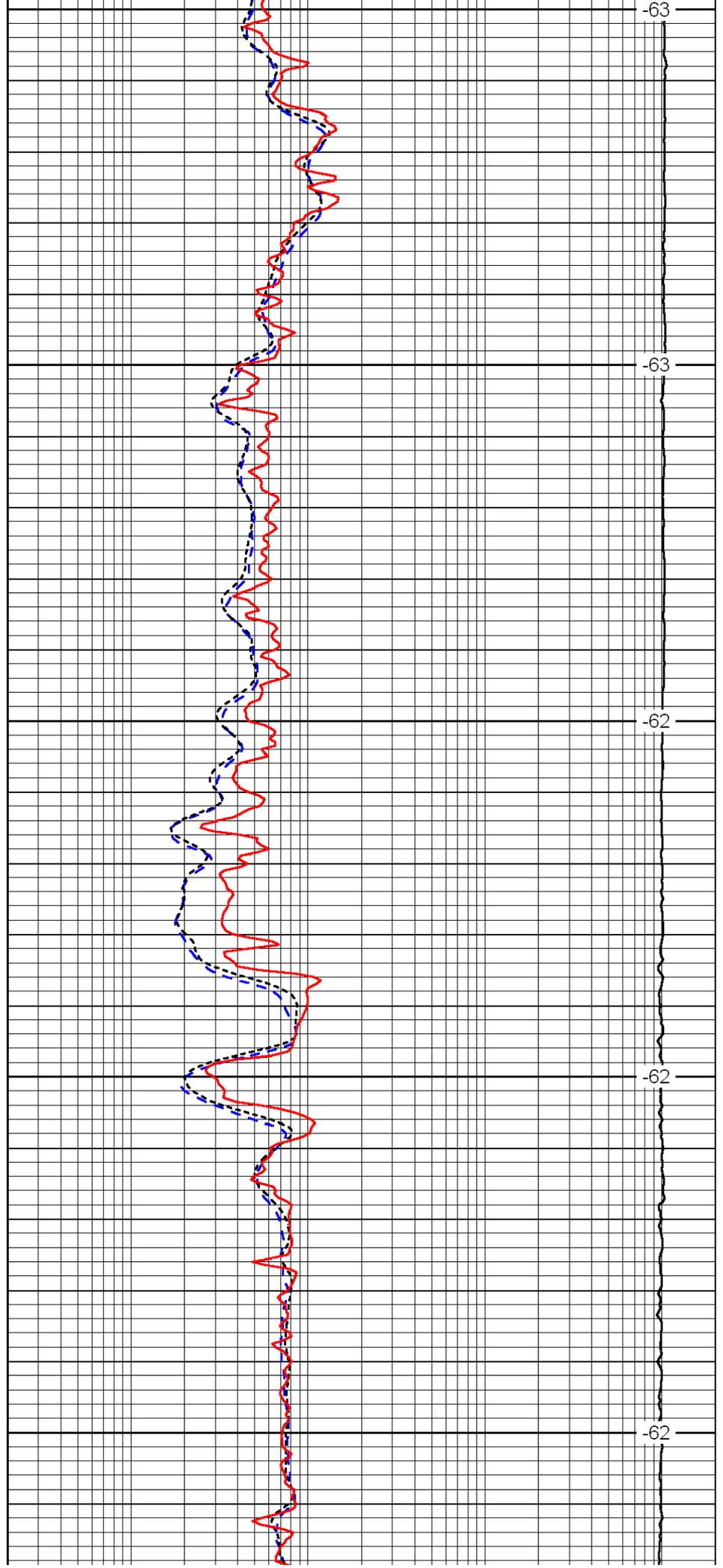
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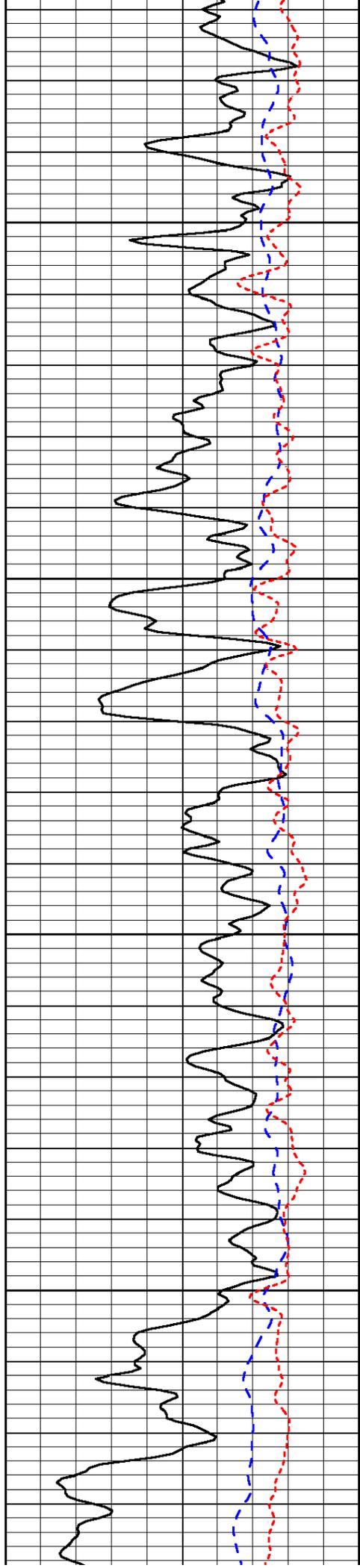
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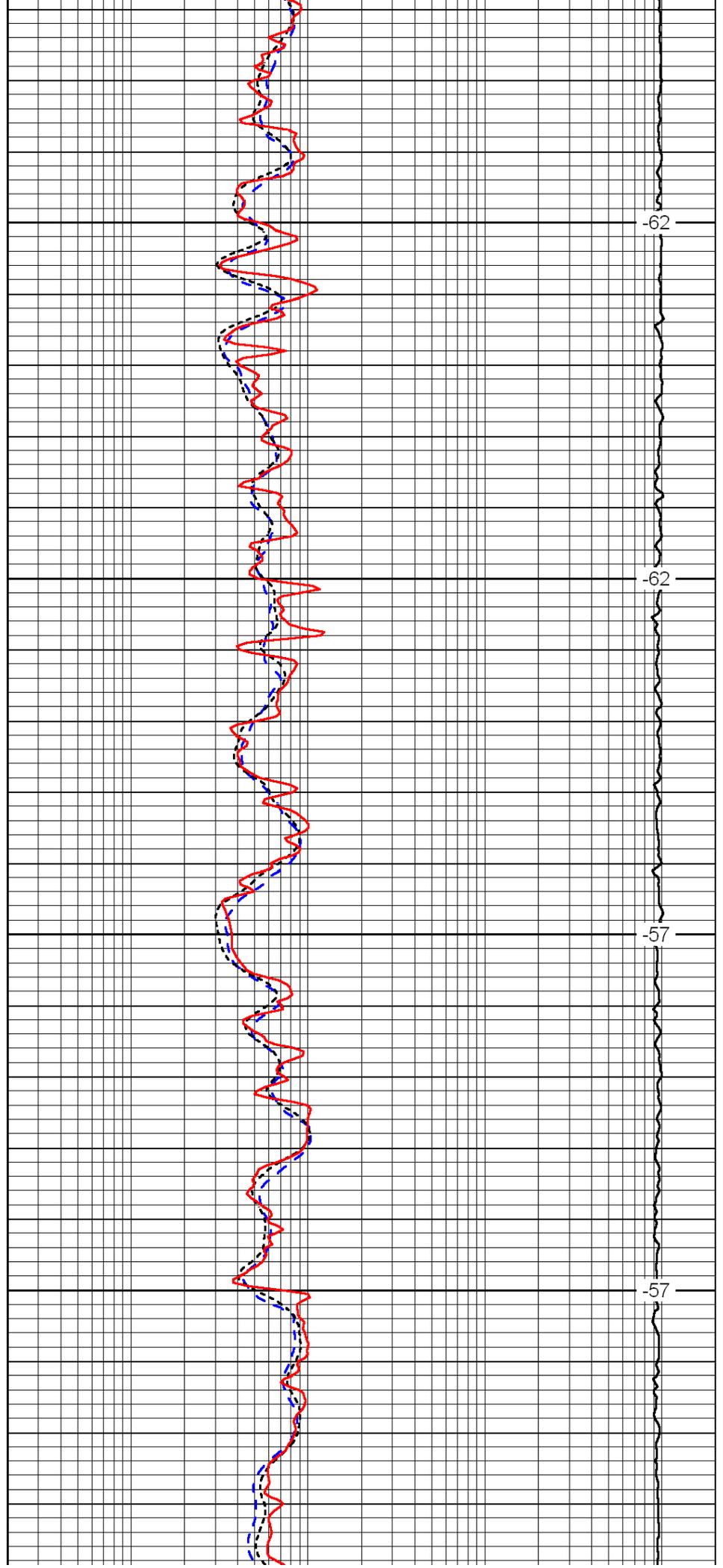


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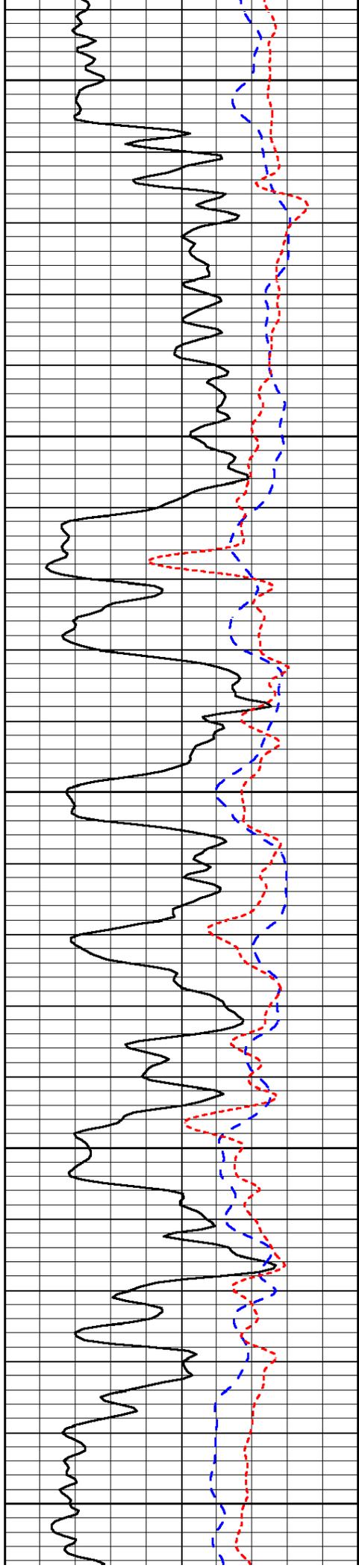


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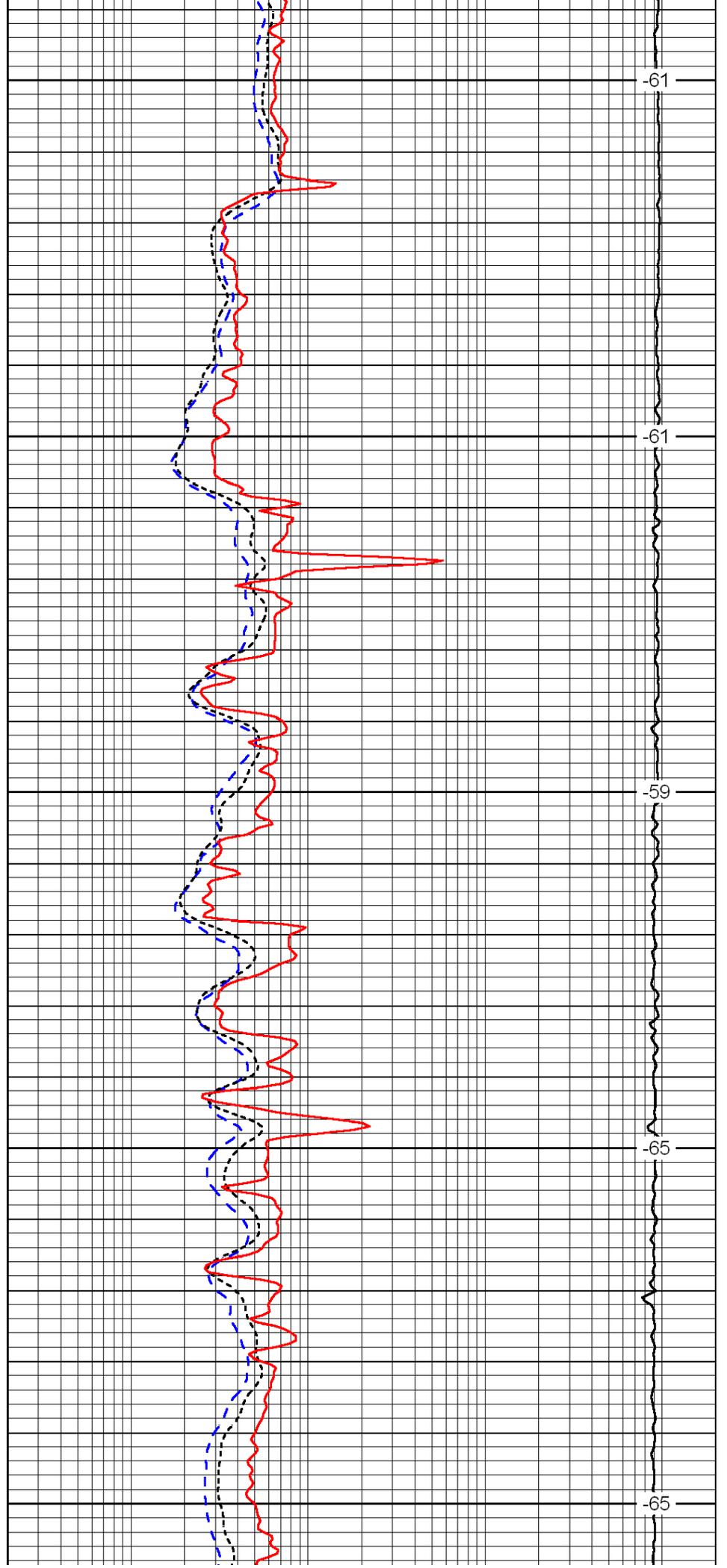
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1950

2000

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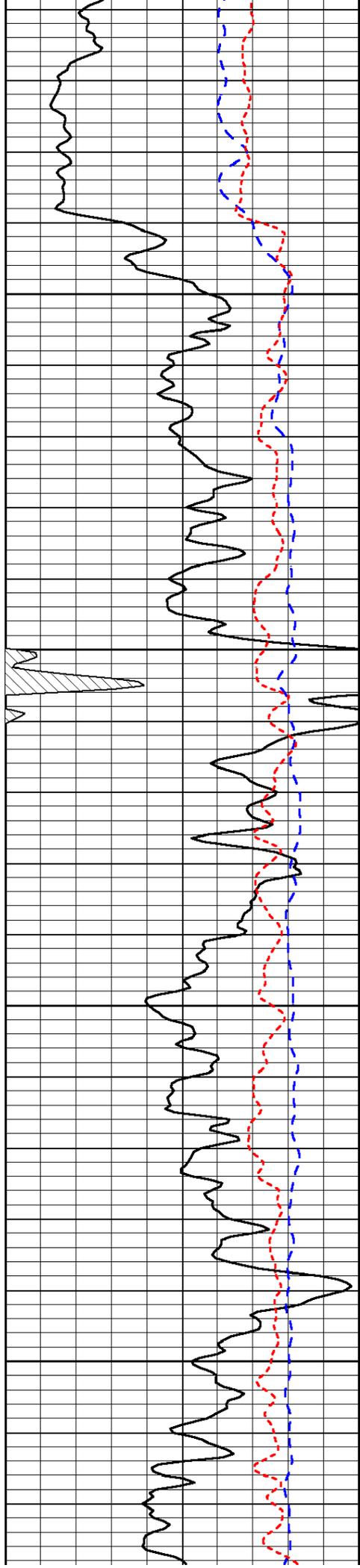
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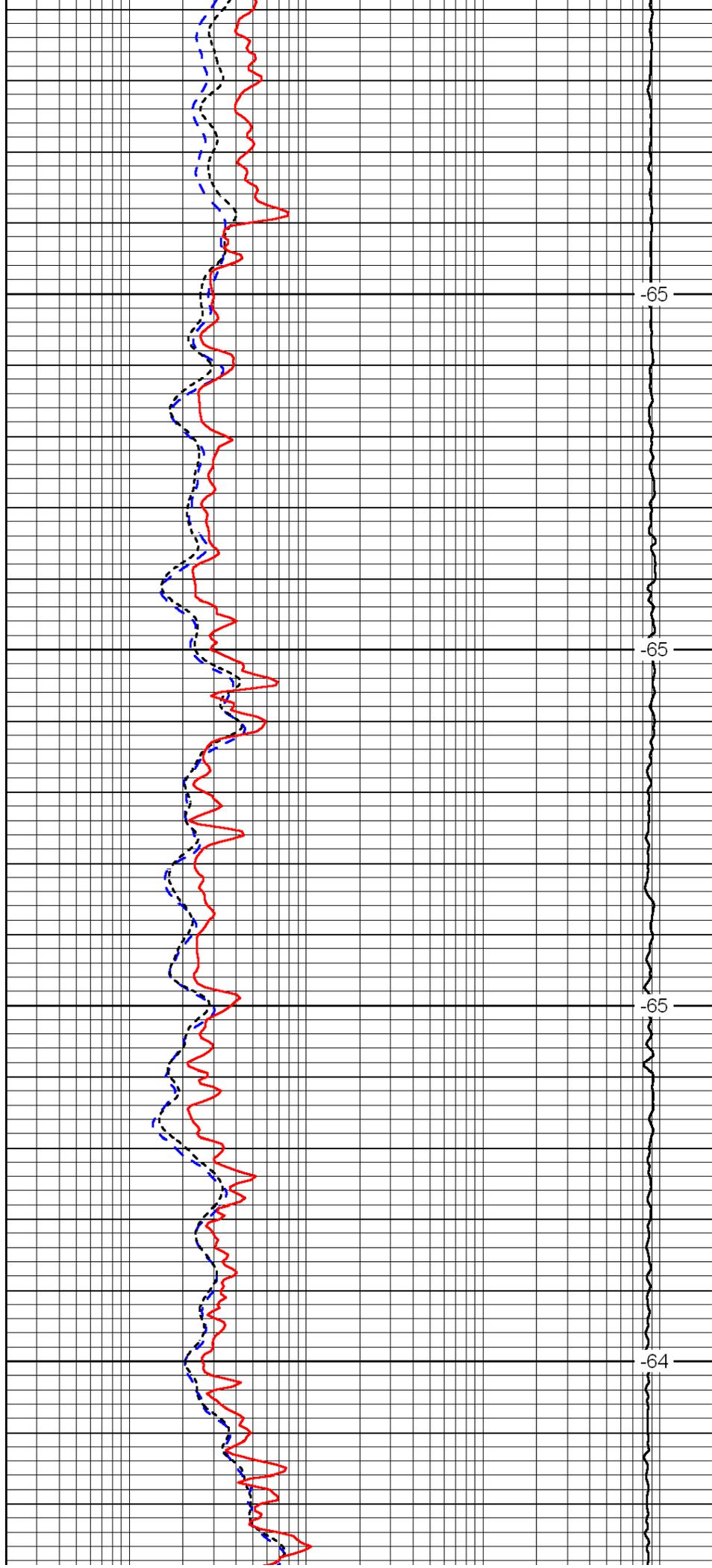


2100

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2200

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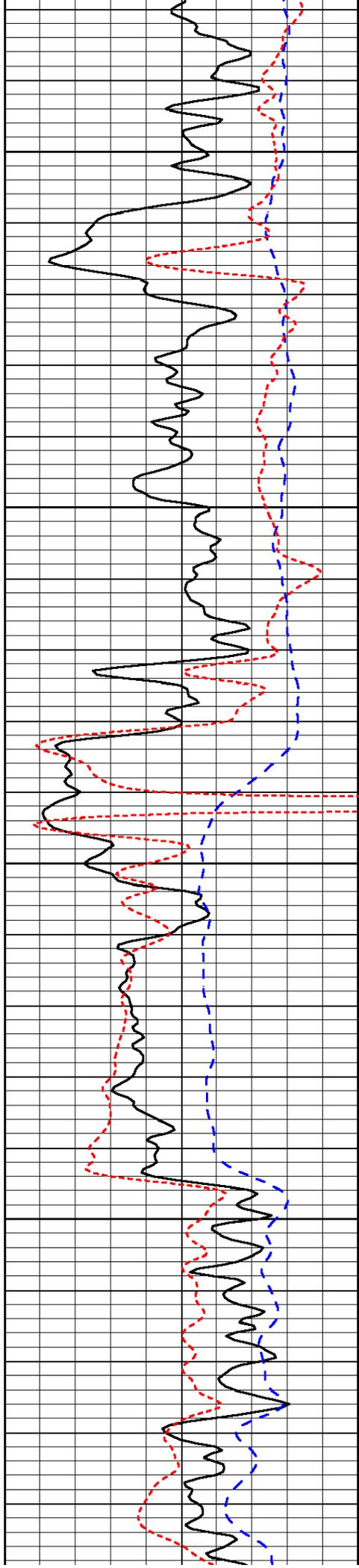


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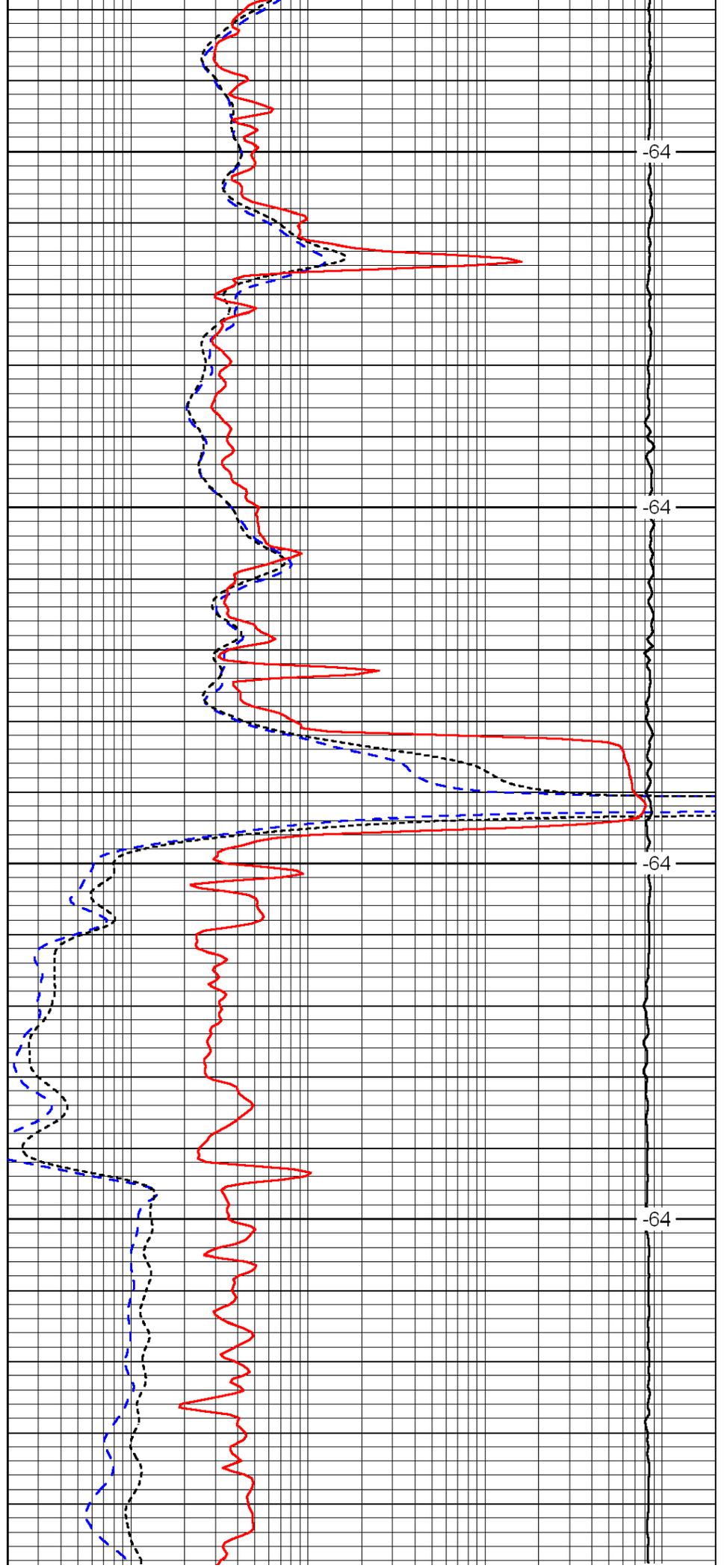


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2350

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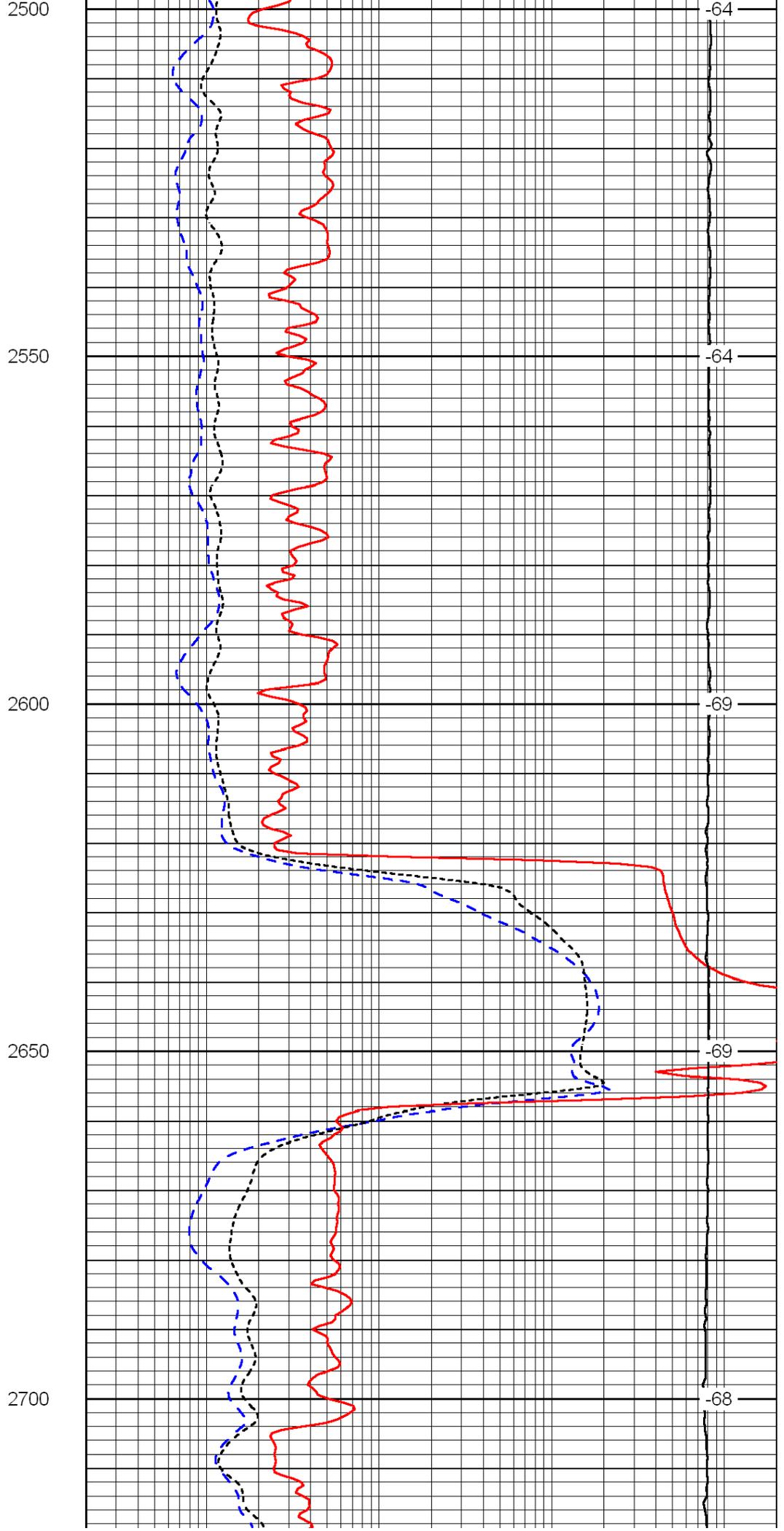
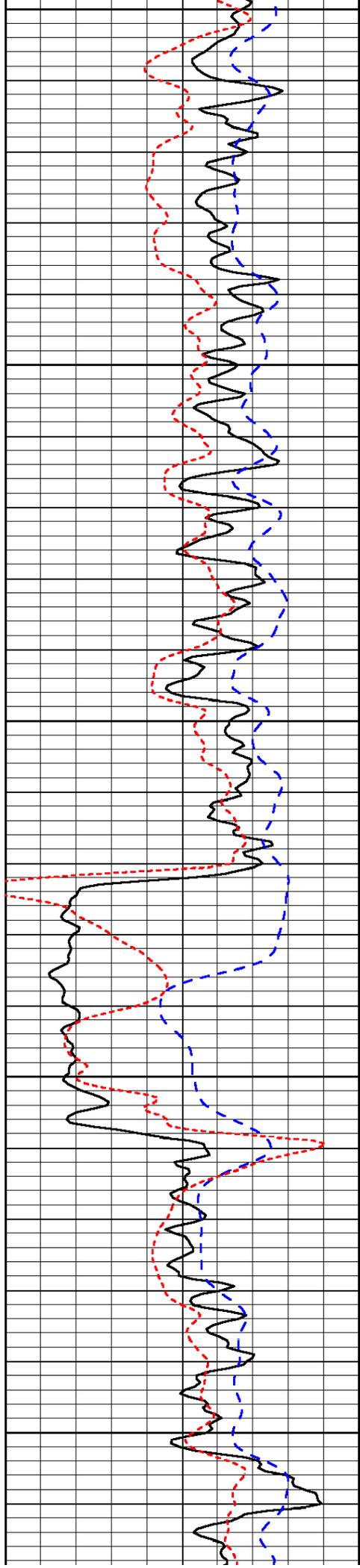


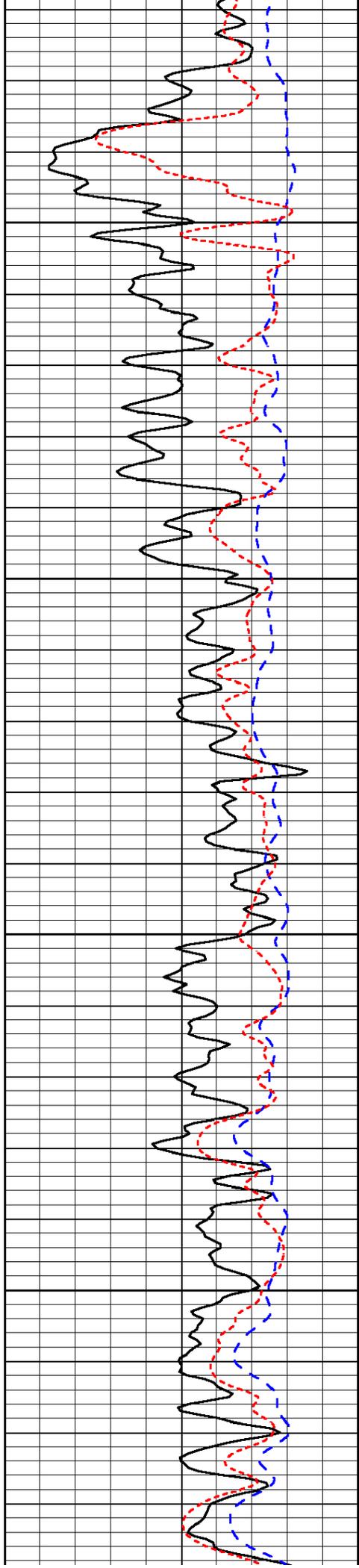
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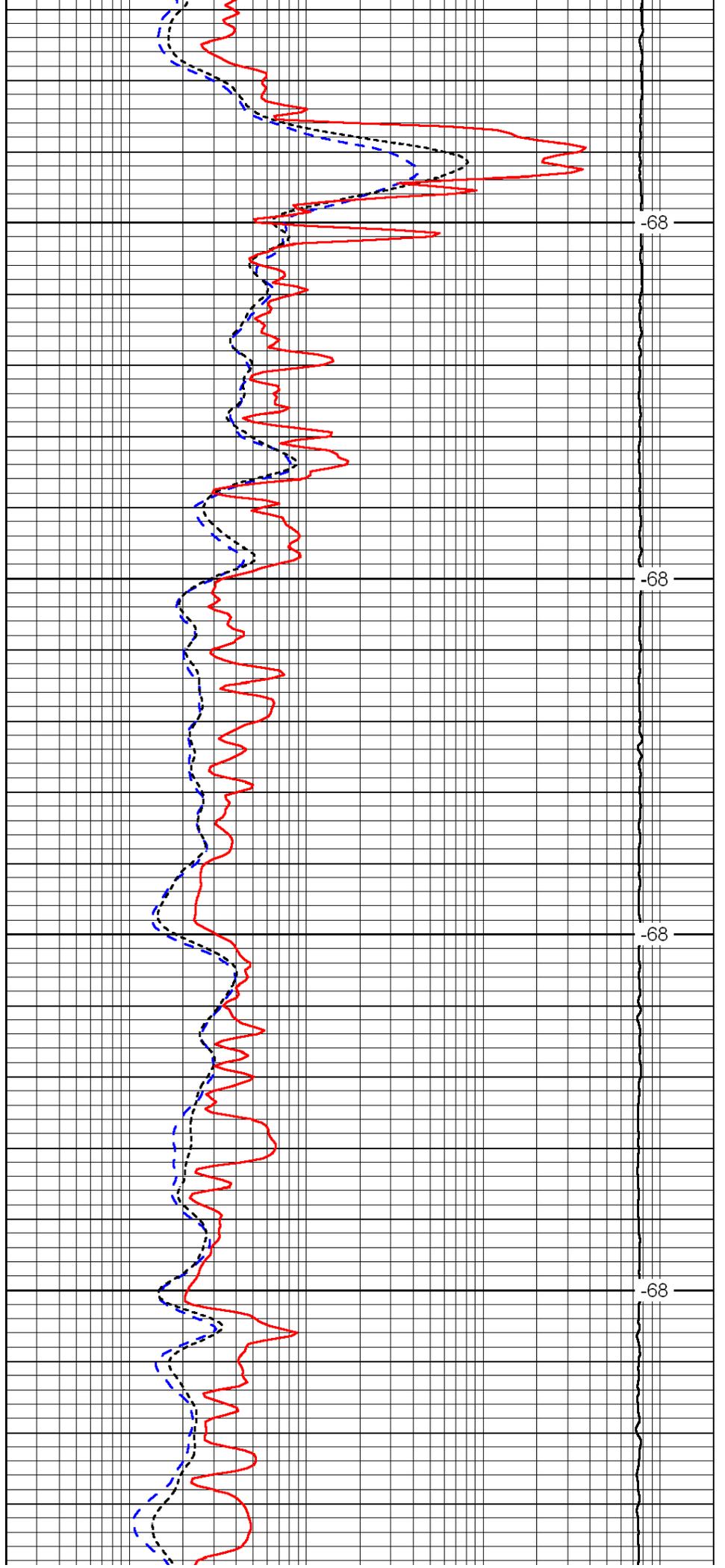


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2800

2850

2900

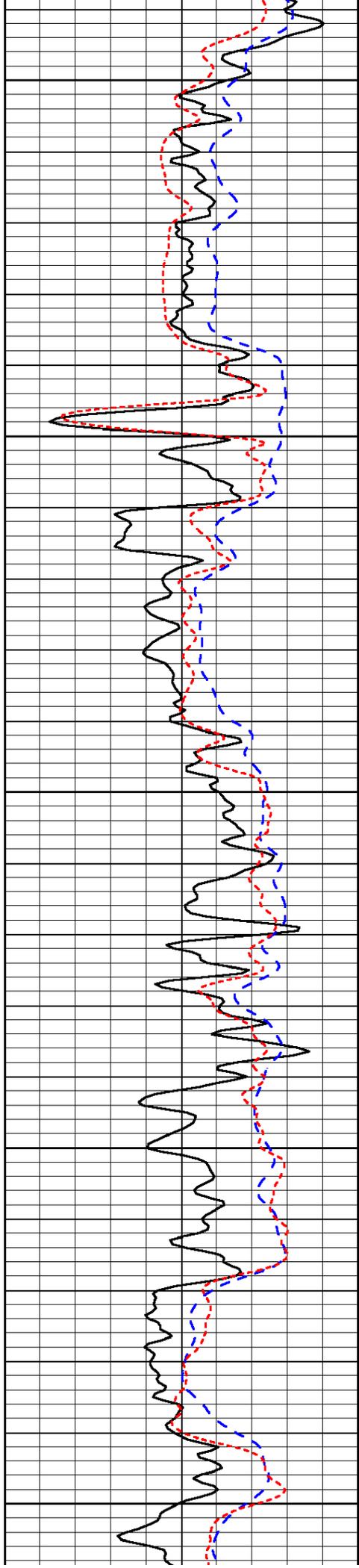


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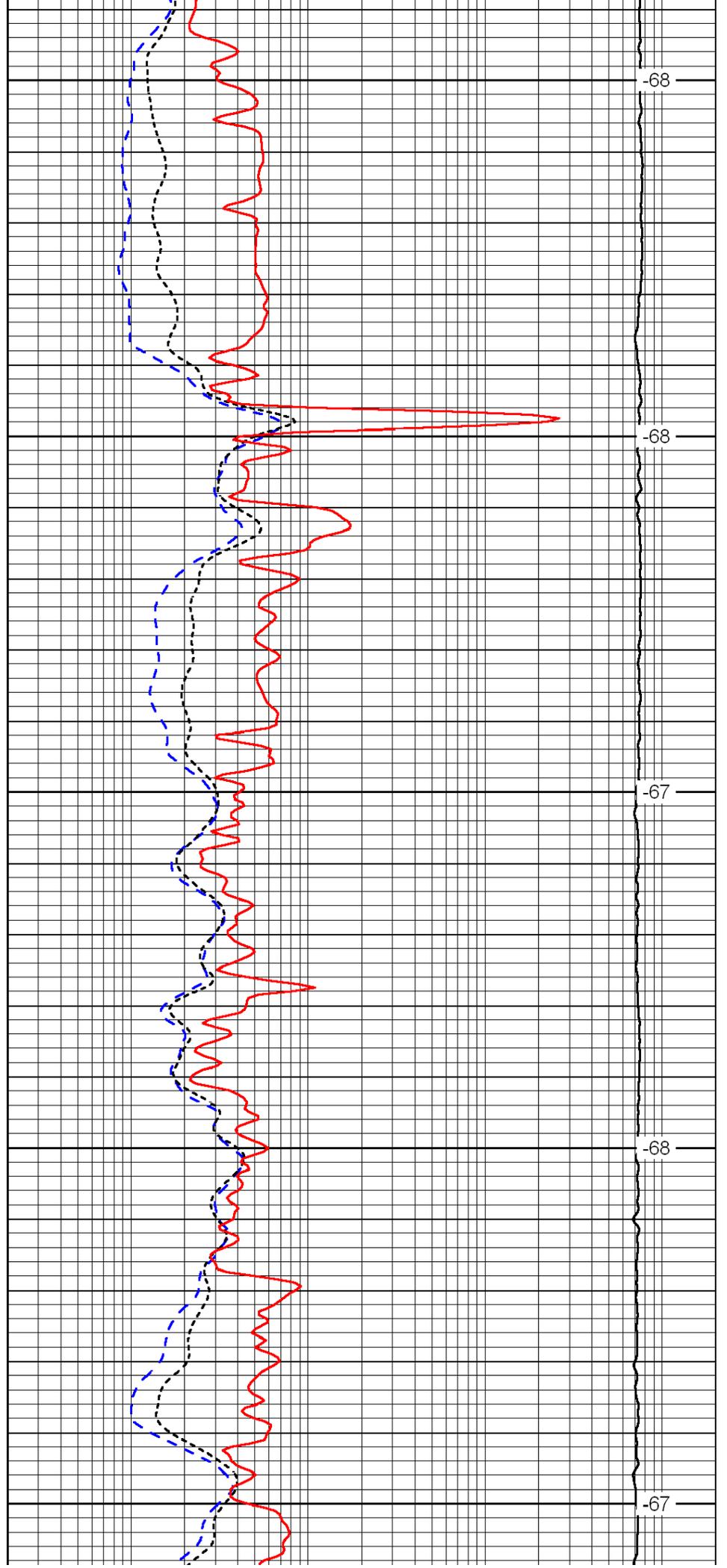
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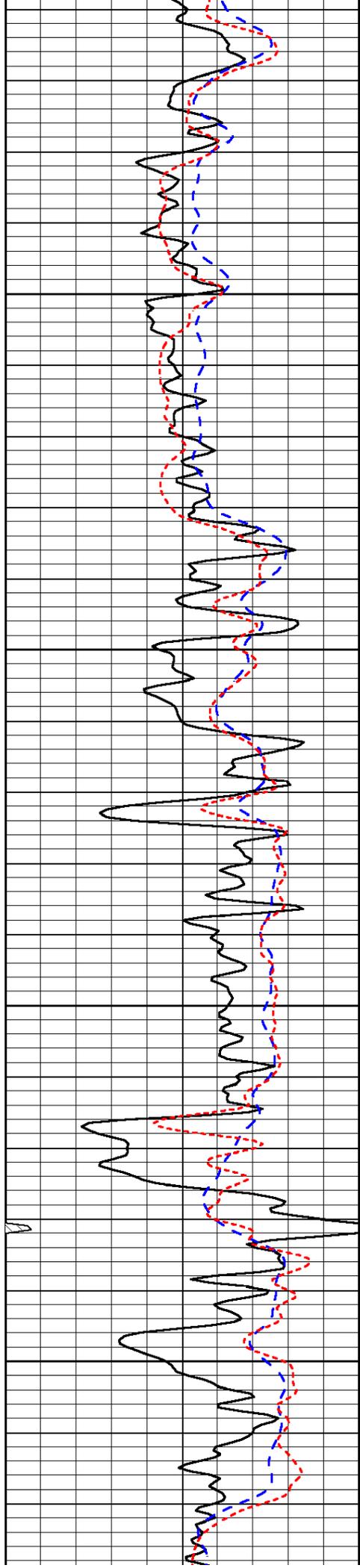
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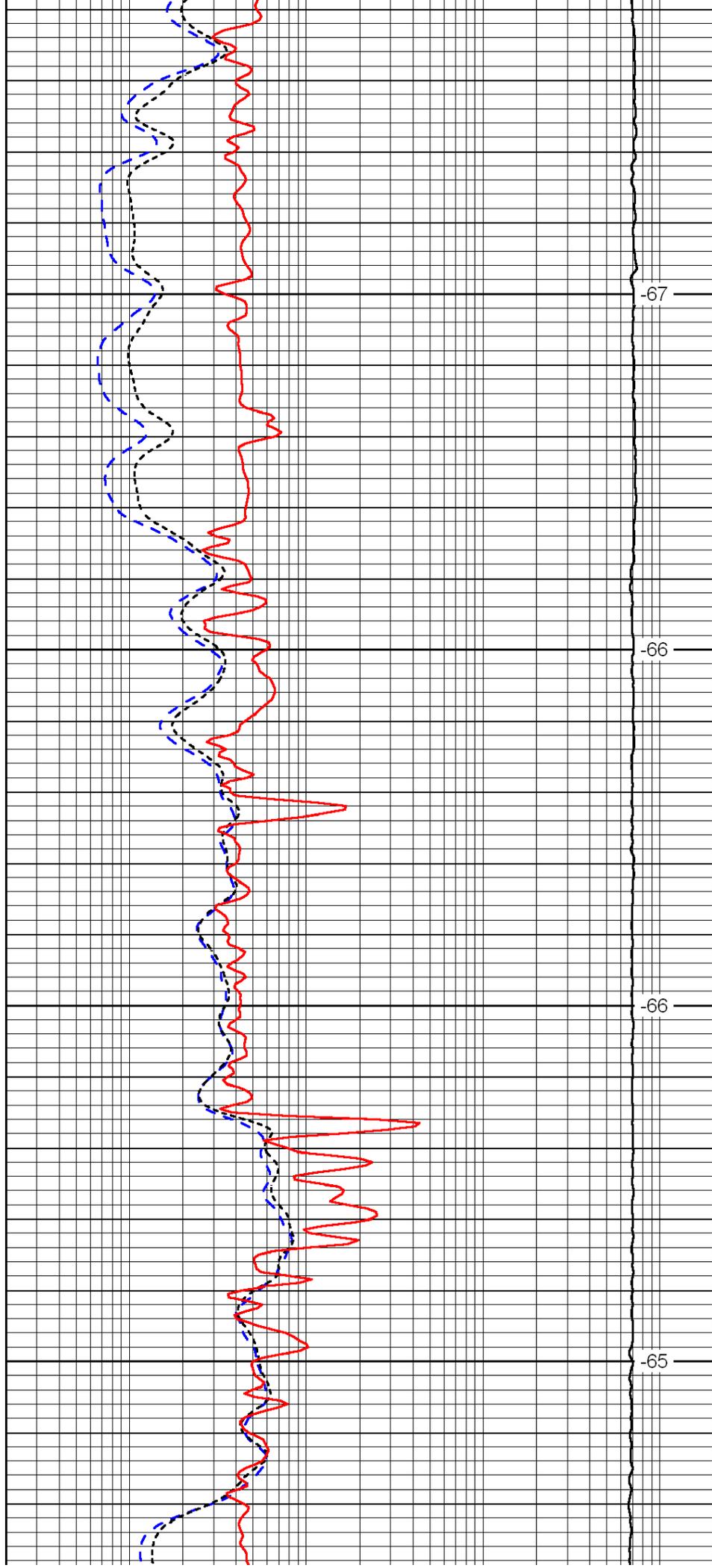


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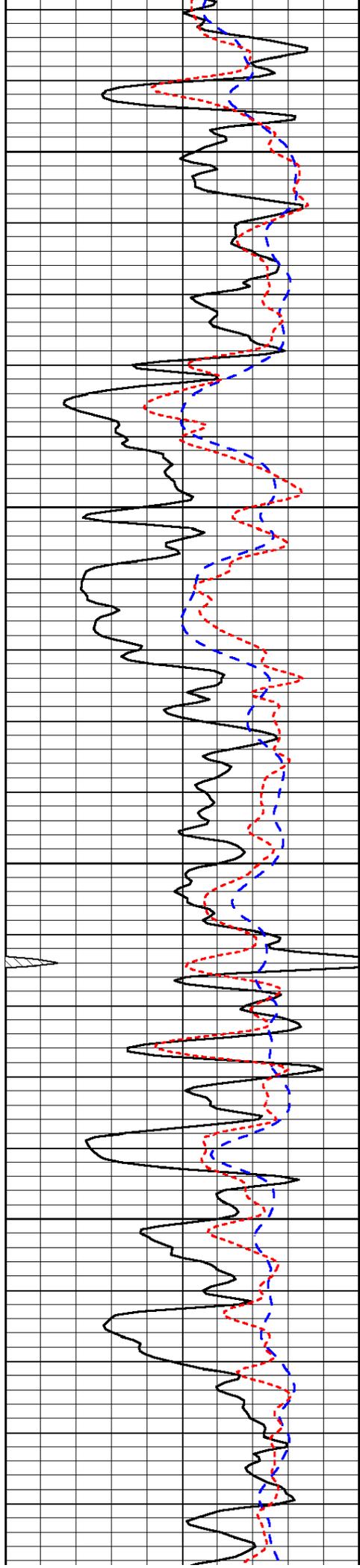


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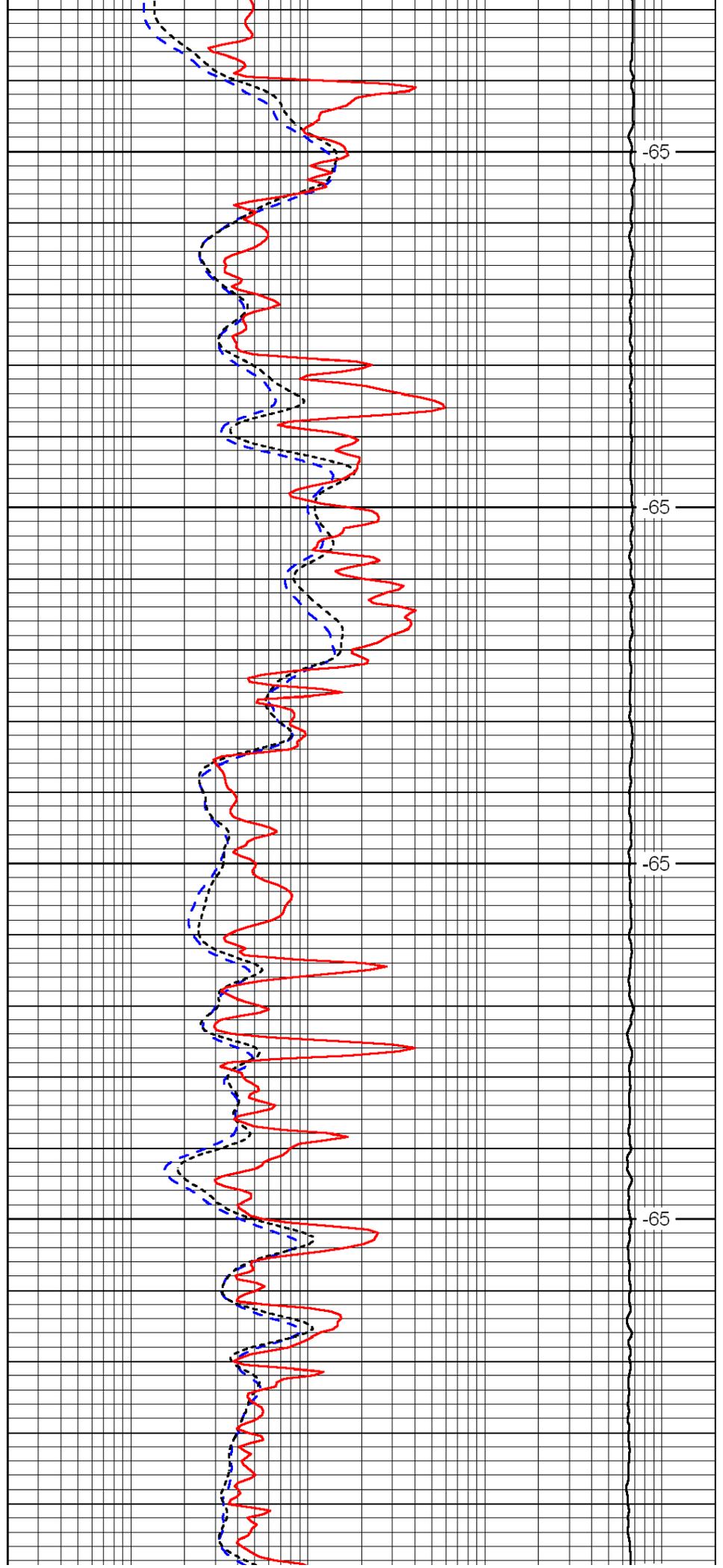


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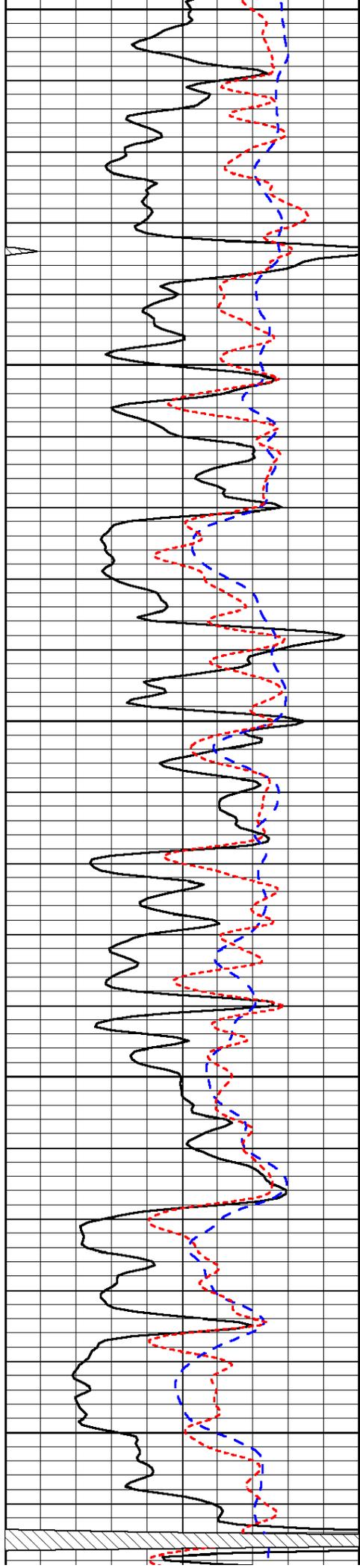


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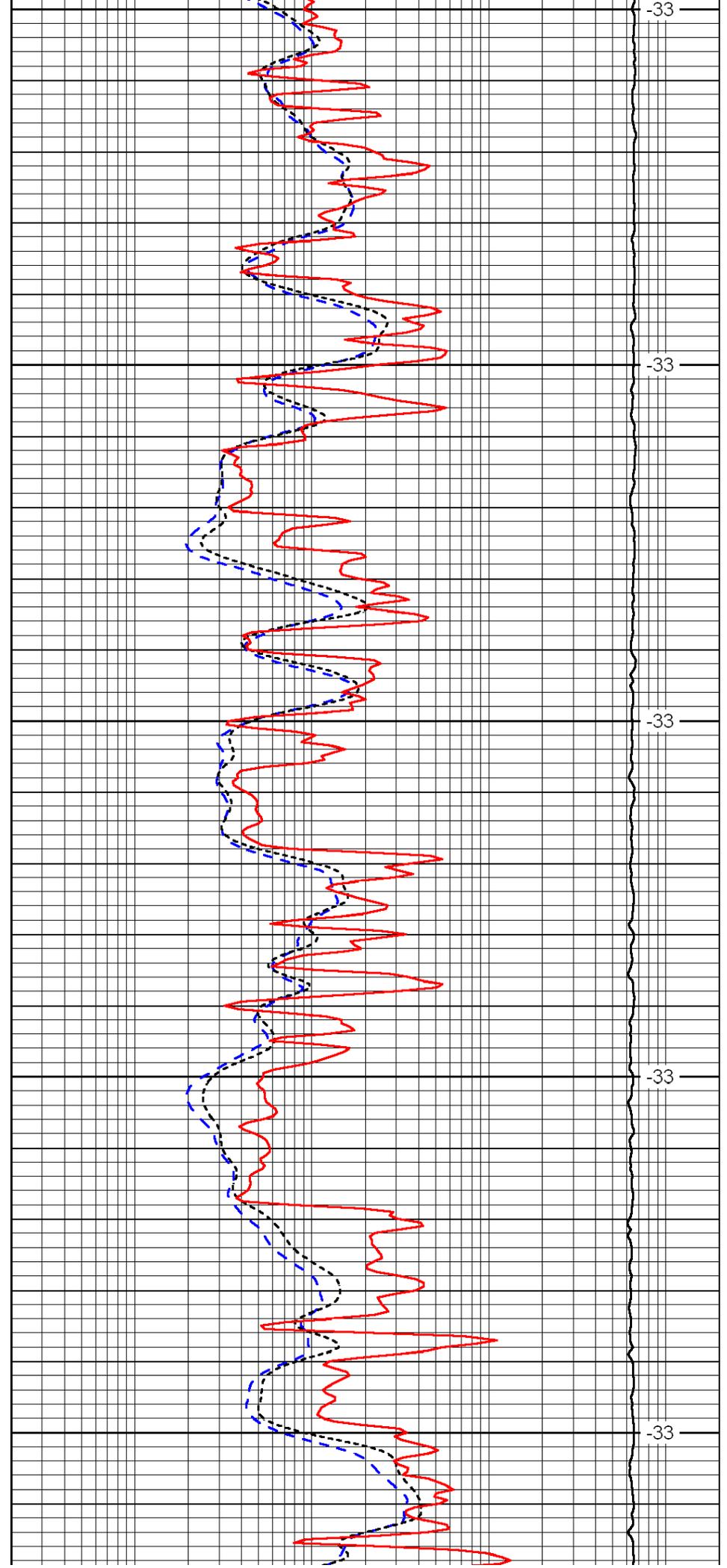
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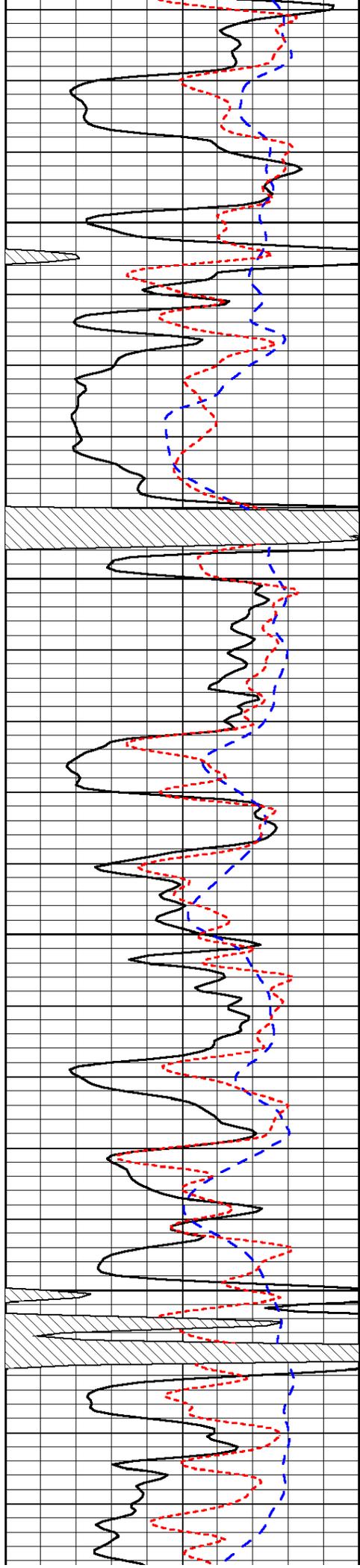
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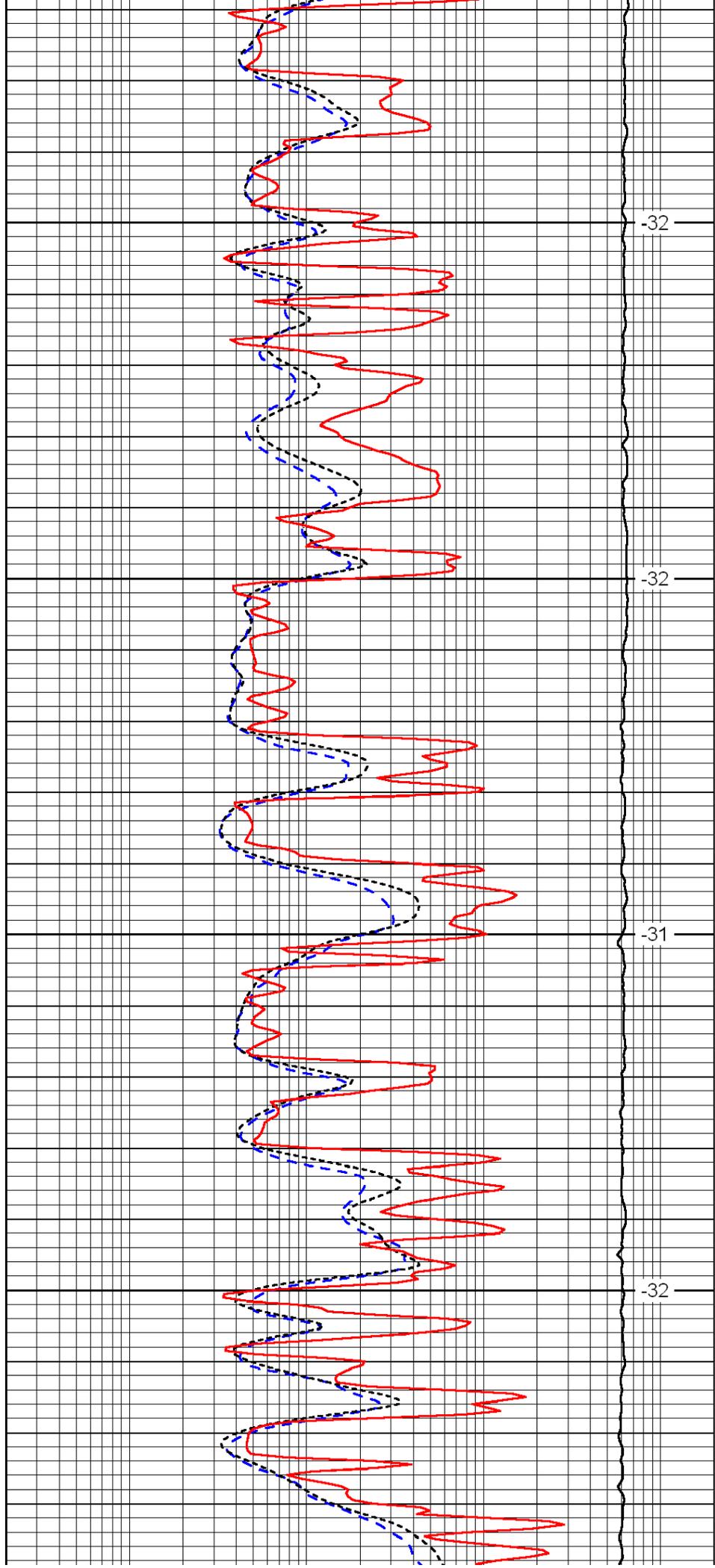


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3900

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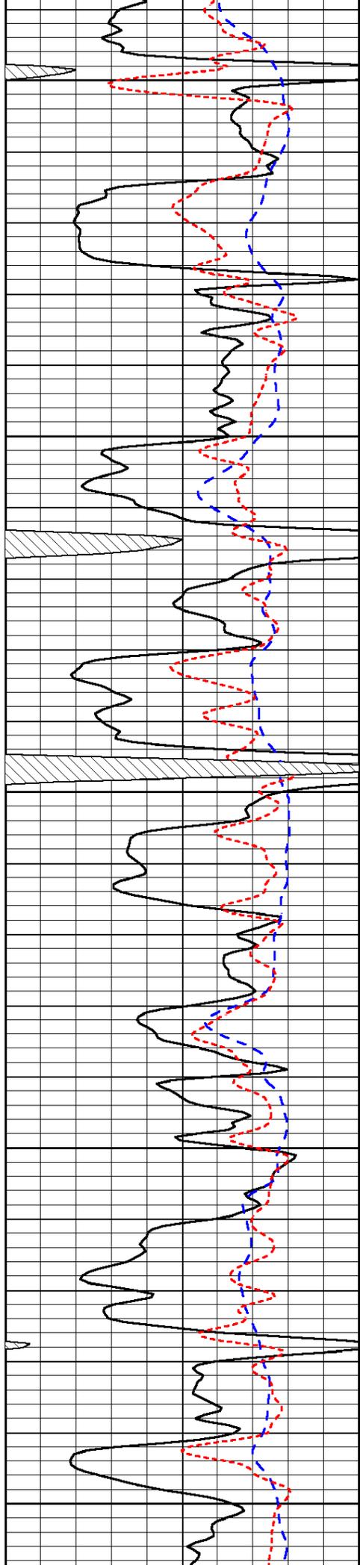


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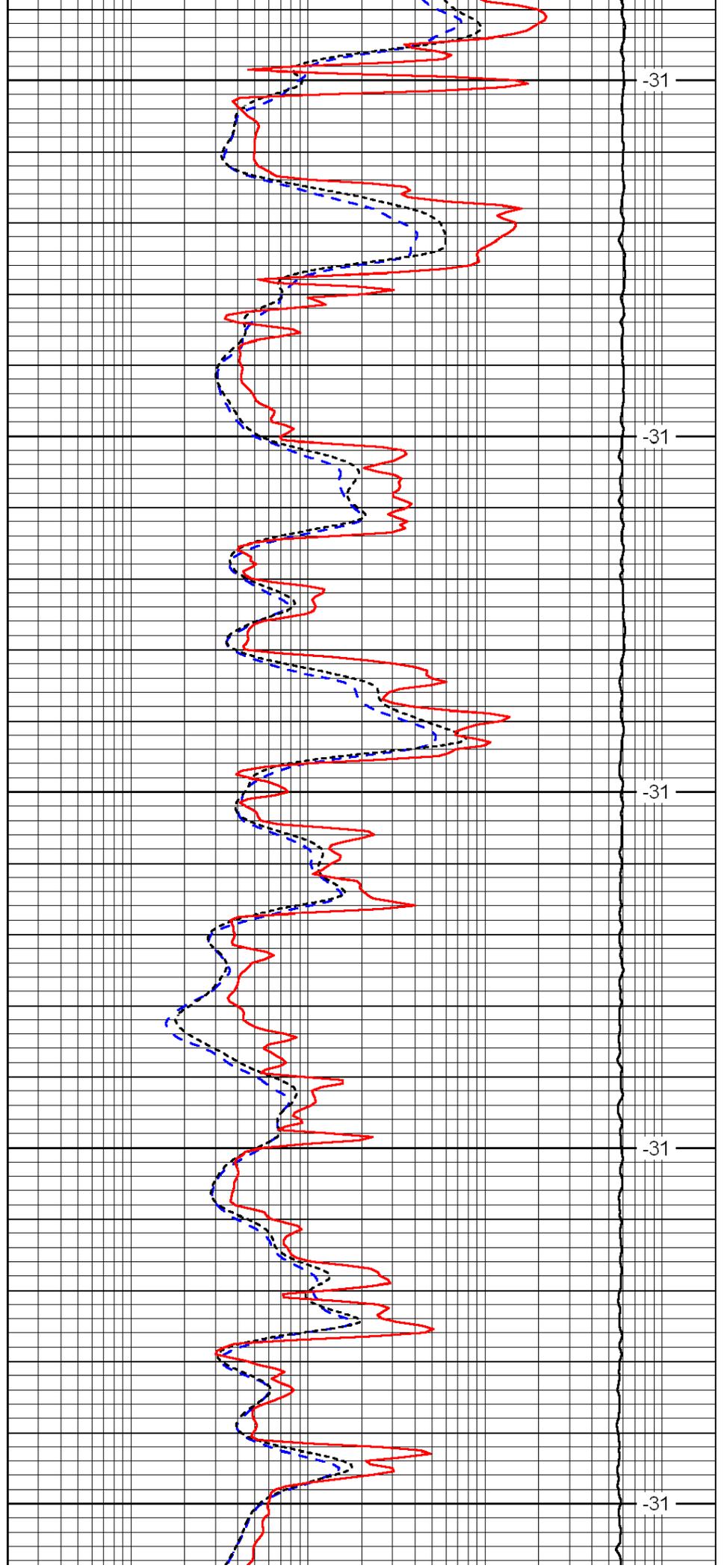
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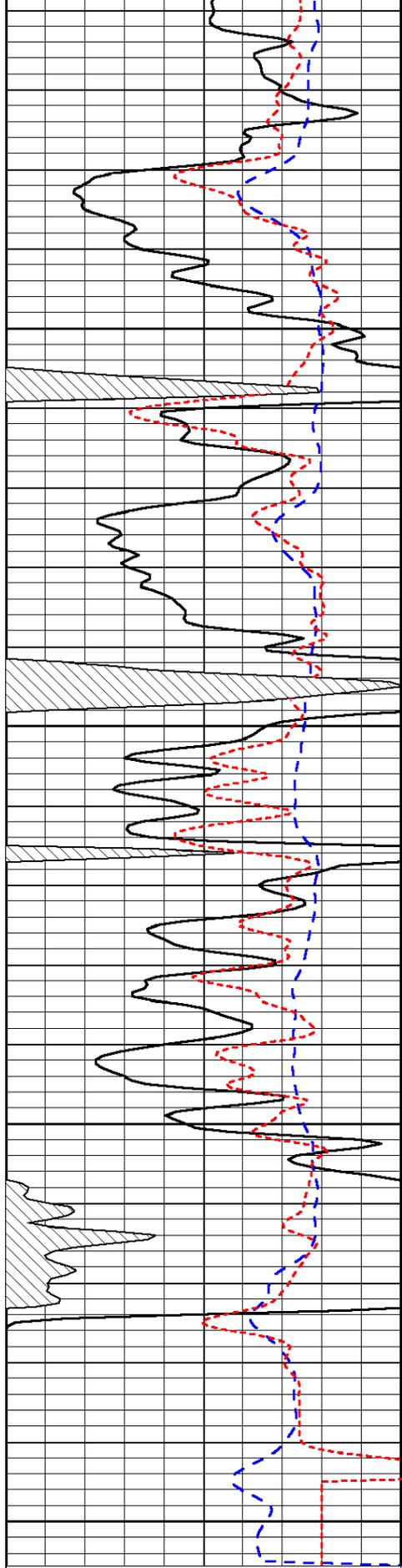
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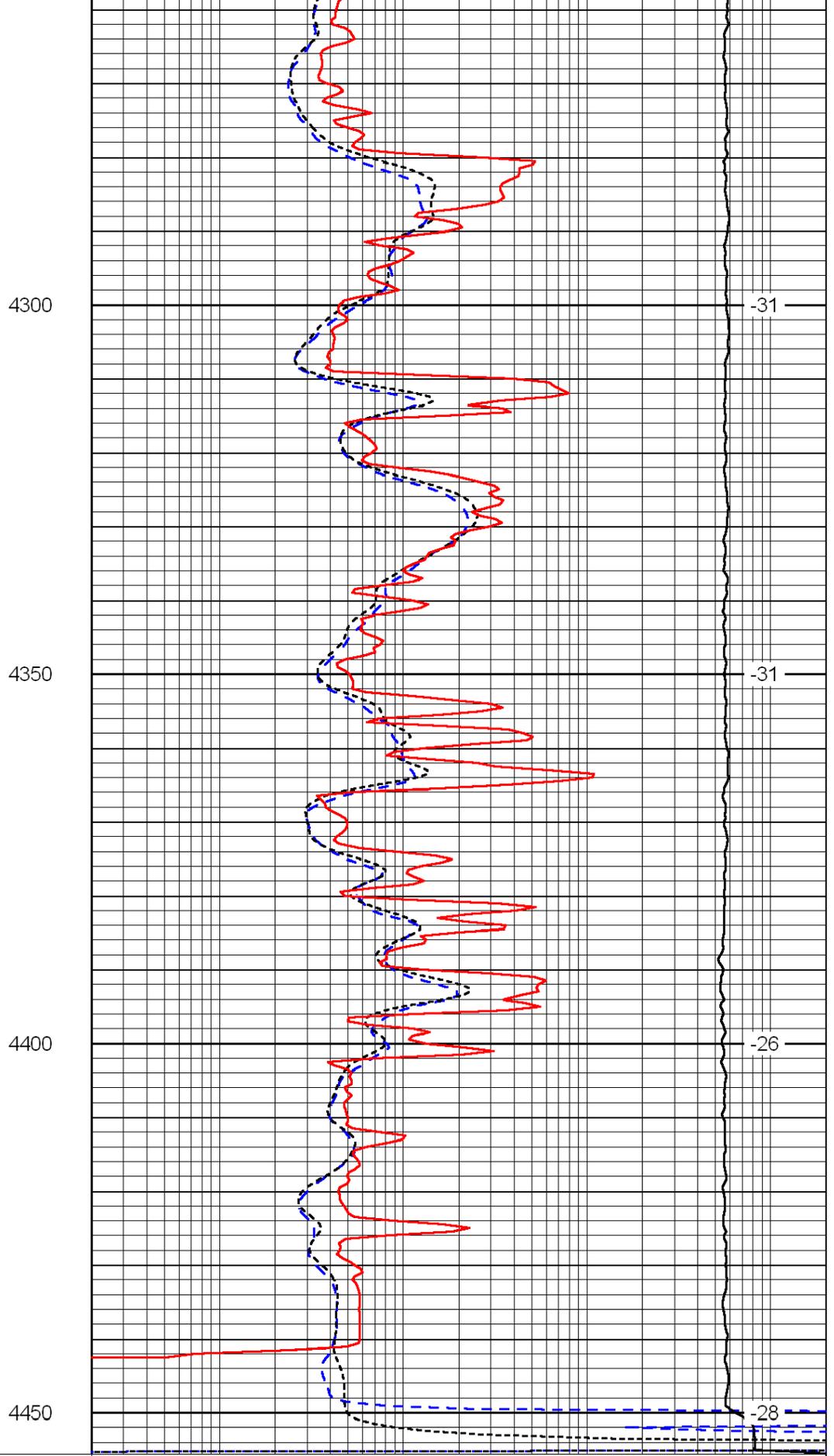
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| | | |
|------|-----------|-----|
| 0 | Gamma Ray | 150 |
| -200 | SP (mV) | 0 |
| -160 | Rxo / Rt | 40 |



| | | |
|-------|---------------------|------|
| 0.2 | Deep Resistivity | 2000 |
| 0.2 | Medium Resistivity | 2000 |
| 0.2 | Shallow Resistivity | 2000 |
| 15000 | Line Tension | 0 |

