



## Dual Induction Log

DIGITAL LOG (785) 625-3858

|                        |                                             |                                           |             |
|------------------------|---------------------------------------------|-------------------------------------------|-------------|
| API No.                | Company MIDCO Exploration, Inc.             |                                           |             |
| 15-025-21514-00-00     | Well Theis No. 5-19                         |                                           |             |
|                        | Field Cash City South                       |                                           |             |
|                        | County Clark                                | State                                     | Kansas      |
|                        | Location SW NE NE NE<br>370' FNL & 340' FEL | Other Services<br>CNL / CDL<br>MEL / BHCS |             |
|                        | Sec: 19                                     | Twp: 33S                                  | Rge: 25W    |
| Permanent Datum        | Ground Level                                | Elevation 2092                            |             |
| Log Measured From      | Kelly Bushing                               | 12 Ft. Above Perm. Datum                  |             |
| Drilling Measured From | Kelly Bushing                               | K.B. 2104<br>D.F. 2092<br>G.L. 2092       |             |
| Date                   | 9/14/2010                                   |                                           |             |
| Run Number             | One                                         |                                           |             |
| Depth Driller          | 7610                                        |                                           |             |
| Depth Logger           | 7603                                        |                                           |             |
| Bottom Logged Interval | 7602                                        |                                           |             |
| Top Log Interval       | 850                                         |                                           |             |
| Casing Driller         | 8.625 @ 882                                 |                                           |             |
| Casing Logger          | 868                                         |                                           |             |
| Bit Size               | 7.875                                       |                                           |             |
| Type Fluid in Hole     | Chemical                                    |                                           |             |
| Salinity, ppm CL       | 6900                                        |                                           |             |
| Density / Viscosity    | 9.3 45                                      |                                           |             |
| pH / Fluid Loss        | 9.5 9.6                                     |                                           |             |
| Source of Sample       | Flowline                                    |                                           |             |
| Rm @ Meas. Temp        | .3 @ 78                                     |                                           |             |
| Rmf @ Meas. Temp       | .23 @ 78                                    |                                           |             |
| Rmc @ Meas. Temp       | .41 @ 78                                    |                                           |             |
| Source of Rmf / Rmc    | Charts                                      |                                           |             |
| Rm @ BHT               | .15 @ 154                                   |                                           |             |
| Operating Rig Time     | 8 Hours                                     |                                           |             |
| Max Rec. Temp. F       | 154                                         |                                           |             |
| Equipment Number       | 17                                          |                                           |             |
| Location               | Hays                                        |                                           |             |
| Recorded By            | R. Barnhart                                 |                                           | M. Garrison |
| Witnessed By           | Dave Mayfield                               |                                           |             |

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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.  
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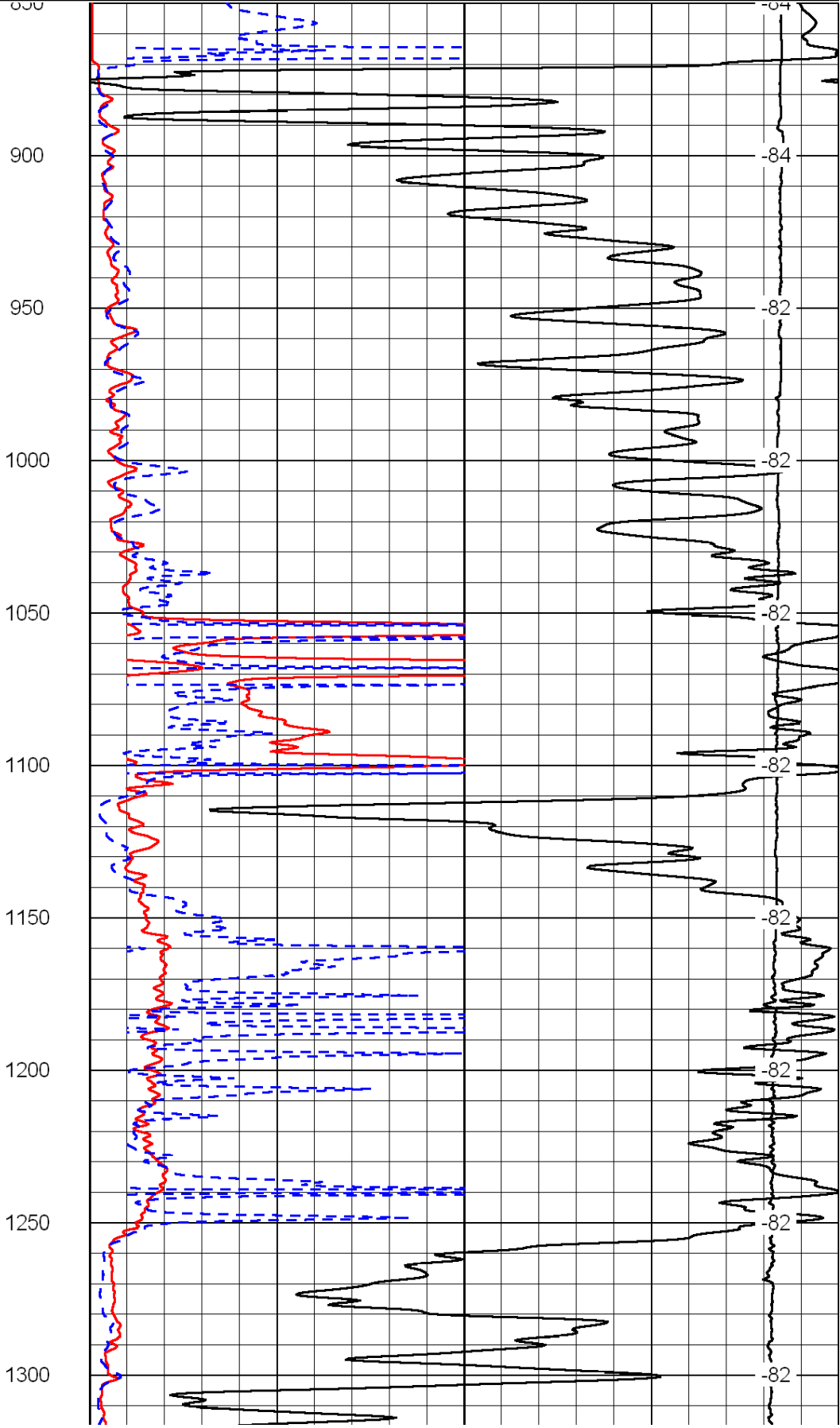
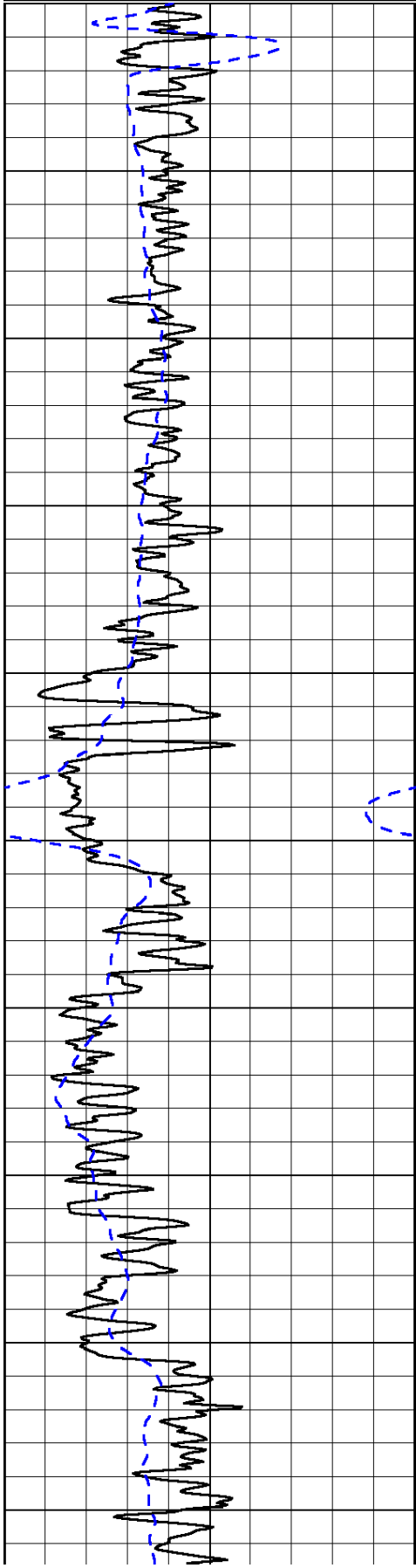
Ashland, KS East to Junc.283 / 160,  
1S, 6.2W, S past 2nd CG, East till N to site

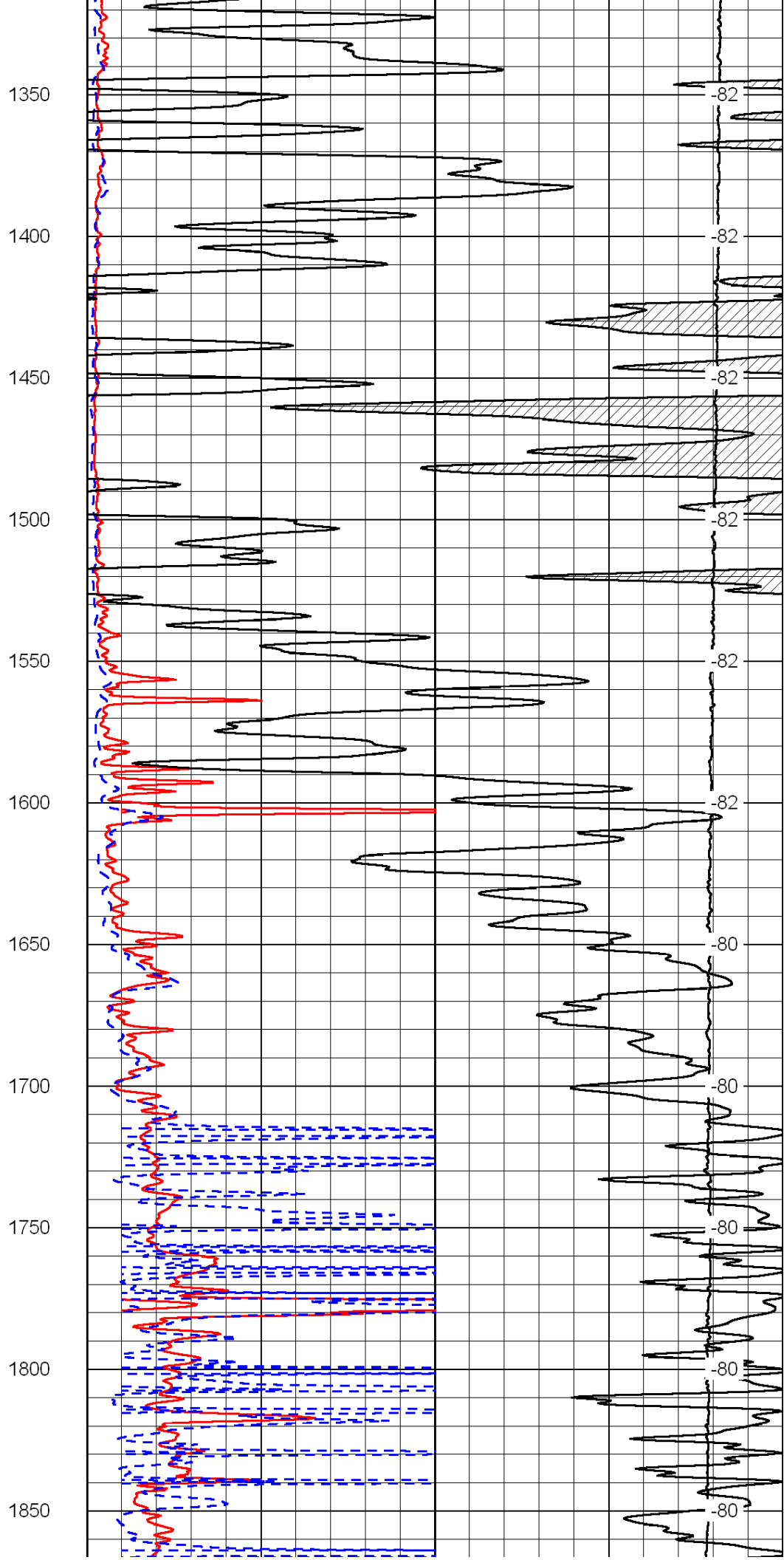
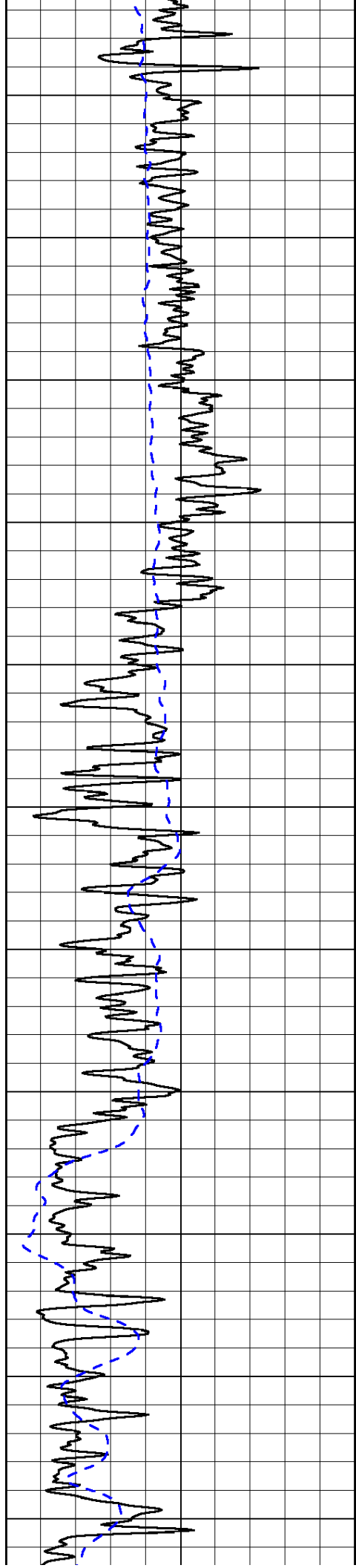
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Presentation Format: dil2in  
Dataset Creation: Tue Sep 14 15:37:16 2010  
Charted by: Depth in Feet scaled 1:600

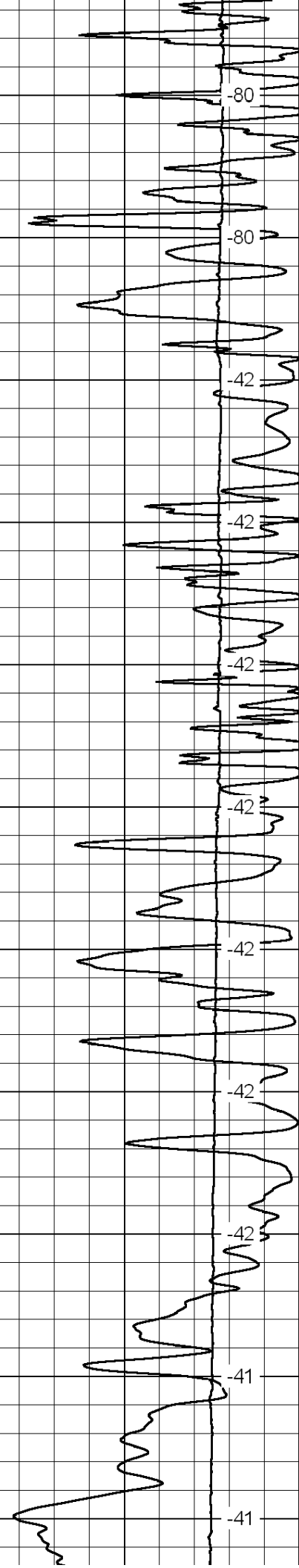
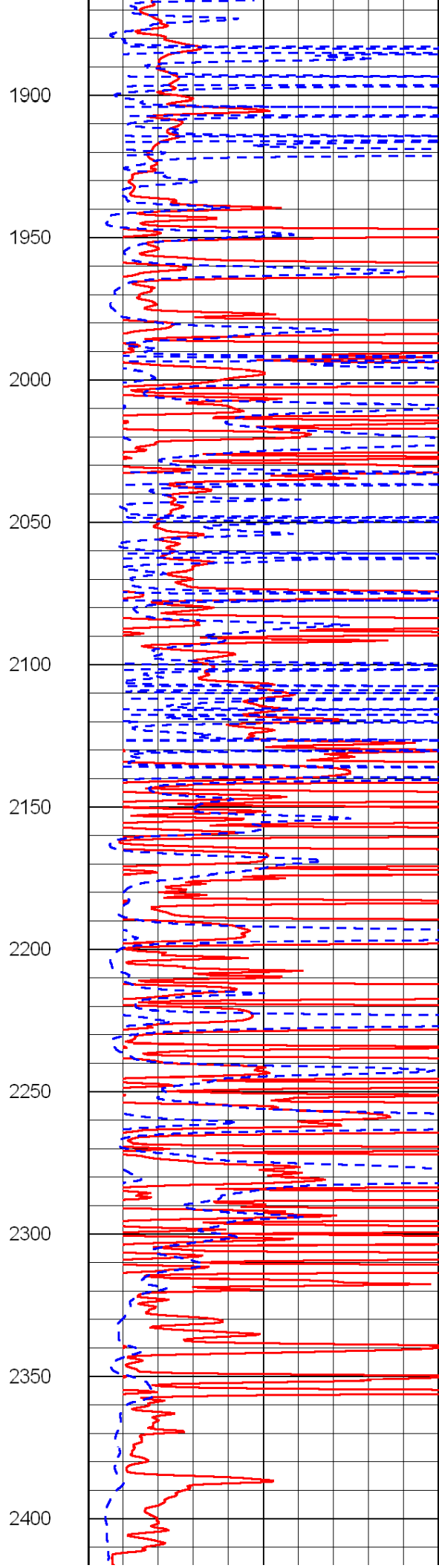
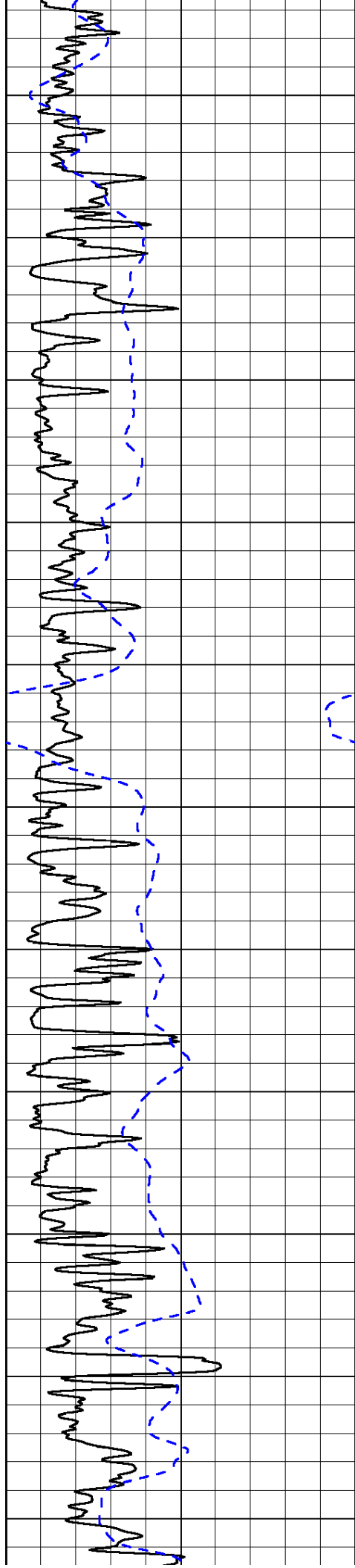
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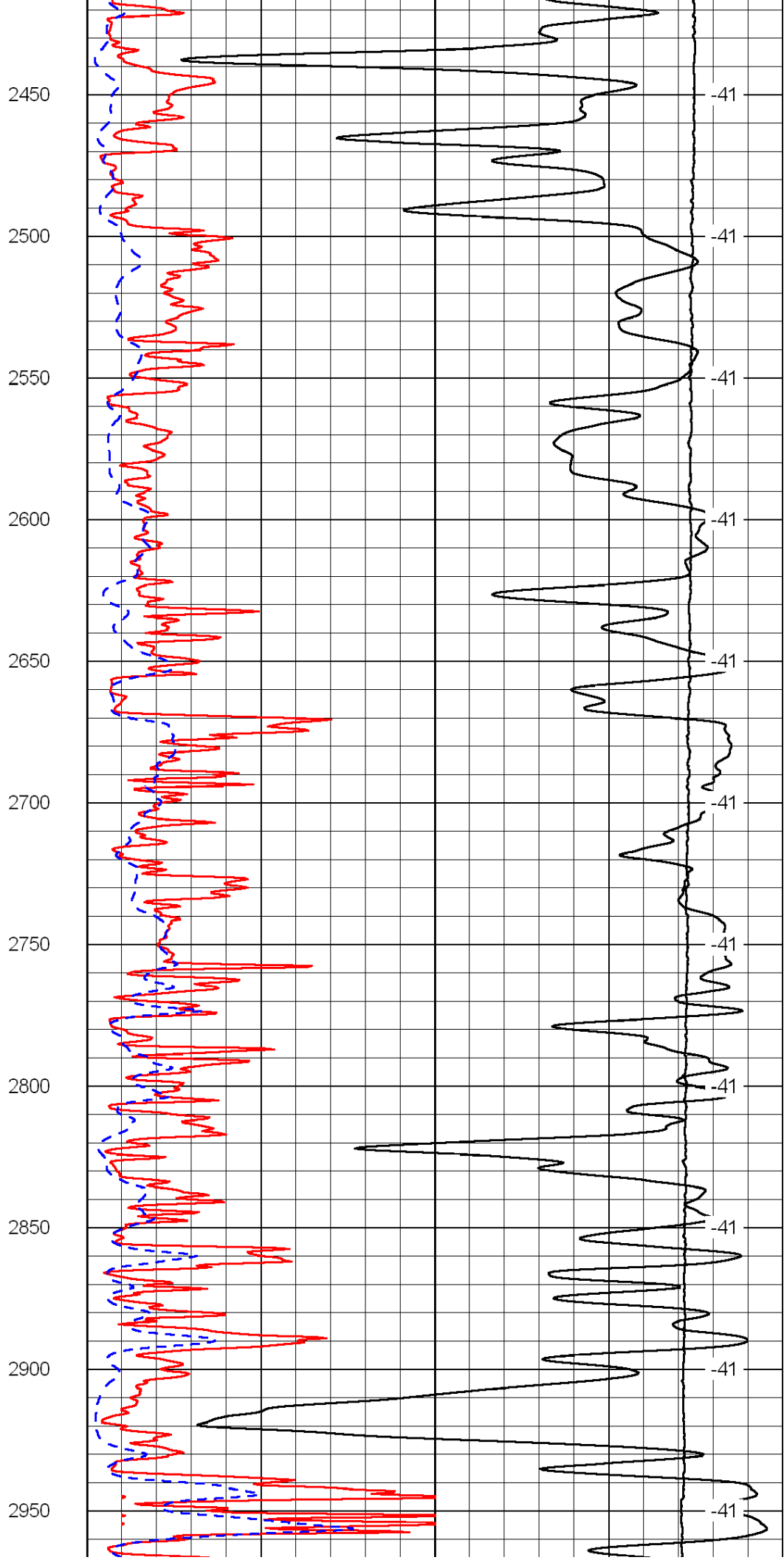
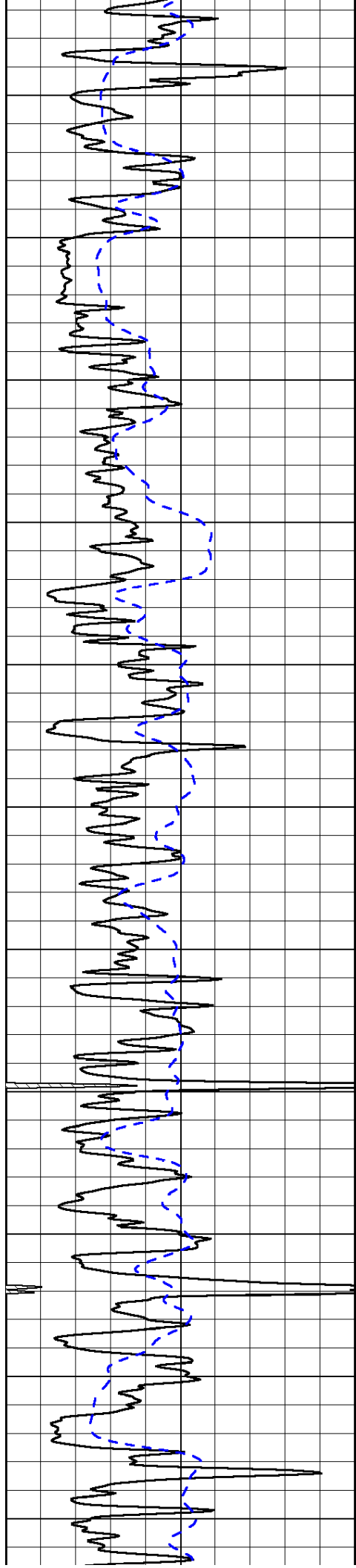
|      |           |     |
|------|-----------|-----|
| 0    | Gamma Ray | 150 |
| -200 | SP (mV)   | 0   |

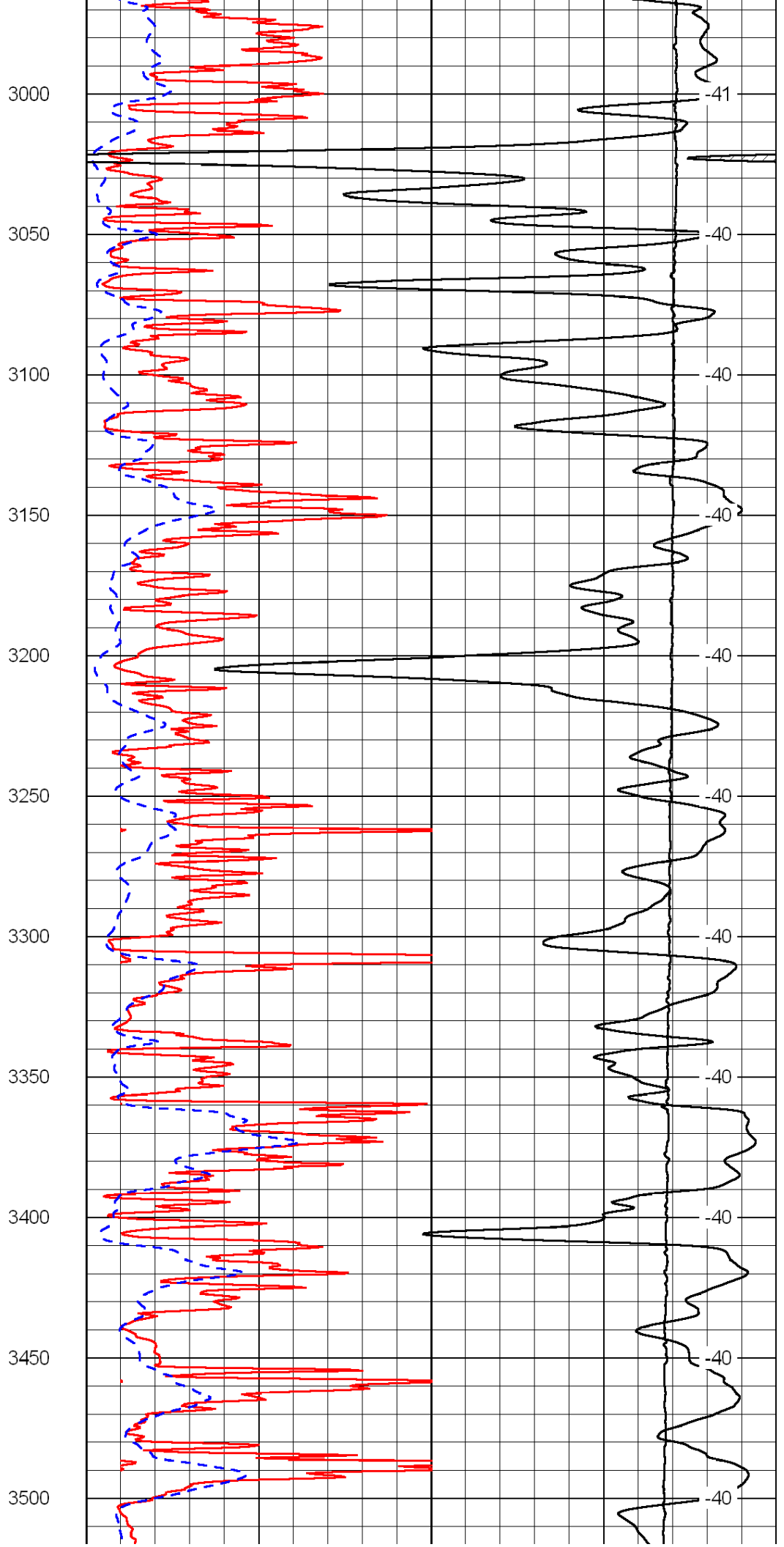
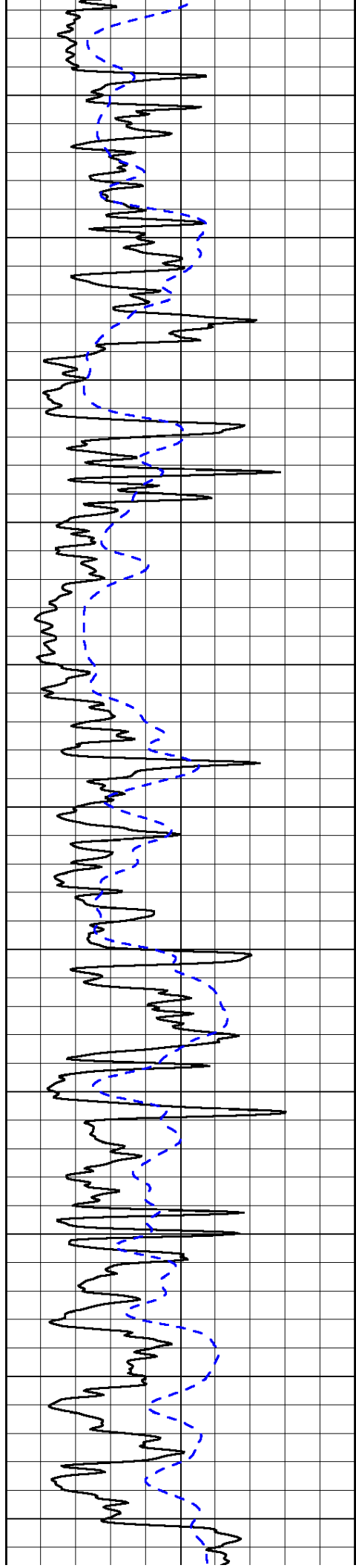
|       |                     |     |      |
|-------|---------------------|-----|------|
| 0     | Shallow Resistivity | 50  | LSPD |
| 0     | Deep Resistivity    | 50  |      |
| 1000  | Conductivity        |     | 0    |
| 15000 | Line Tension        |     | 0    |
| 50    | Shallow Resistivity | 500 |      |
| 50    | Deep Resistivity    | 500 |      |

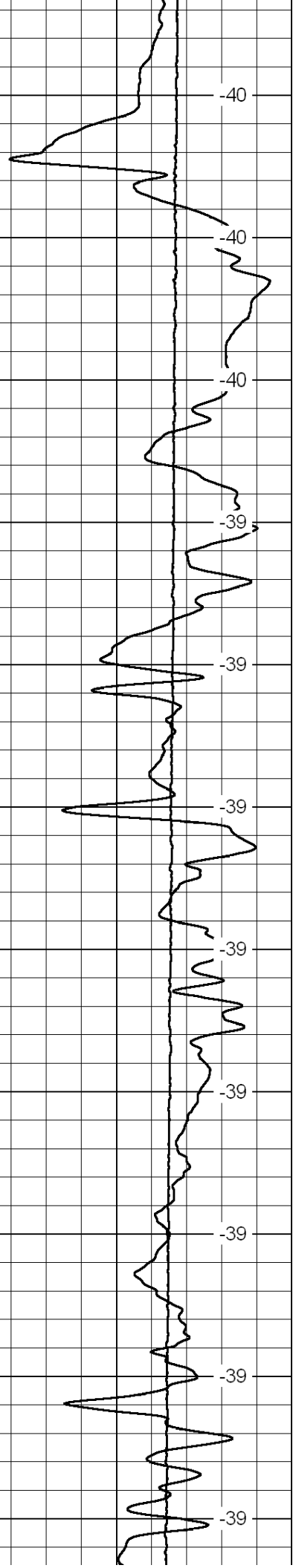
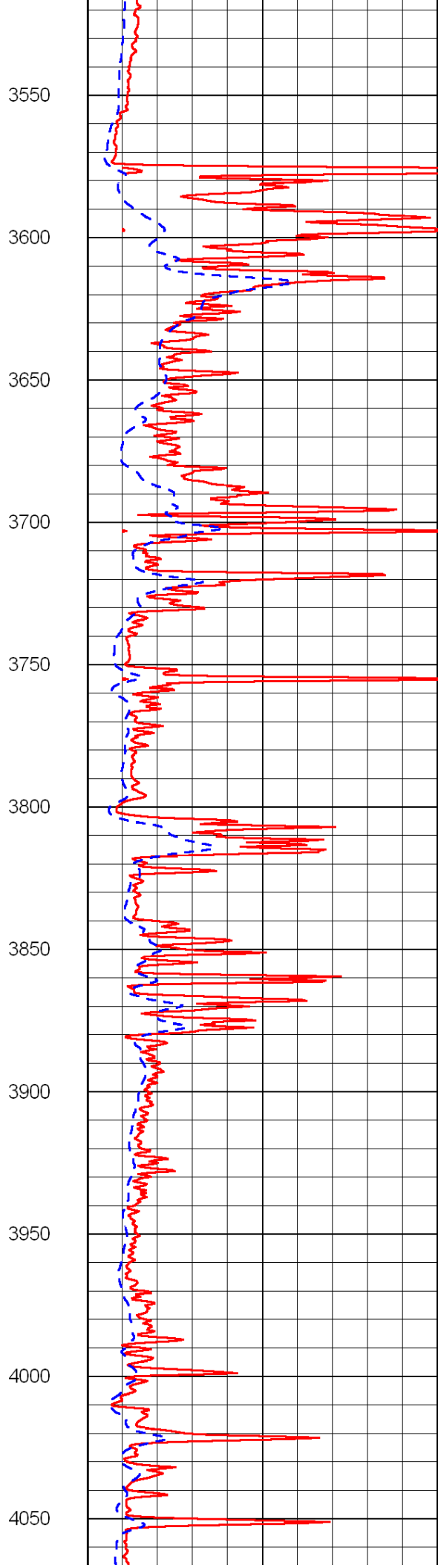
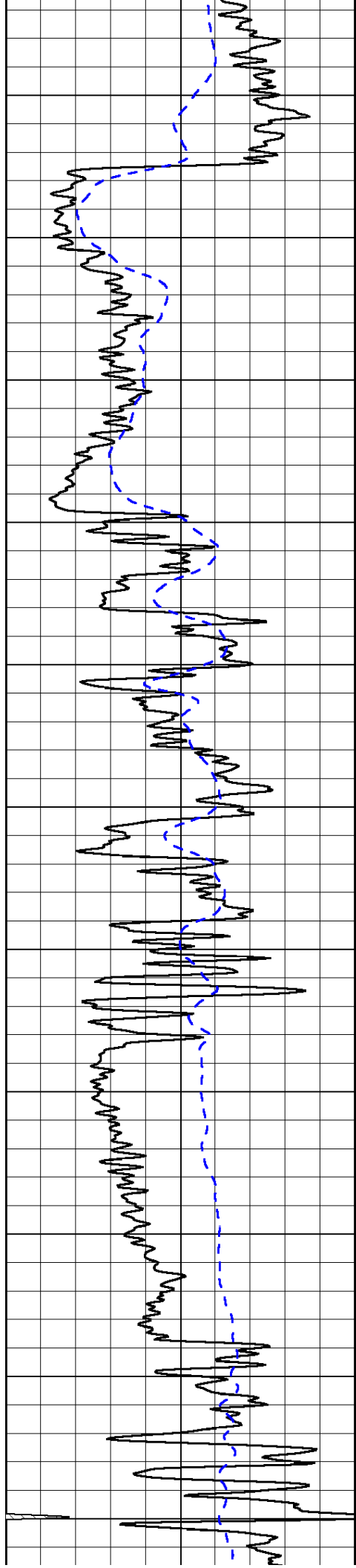


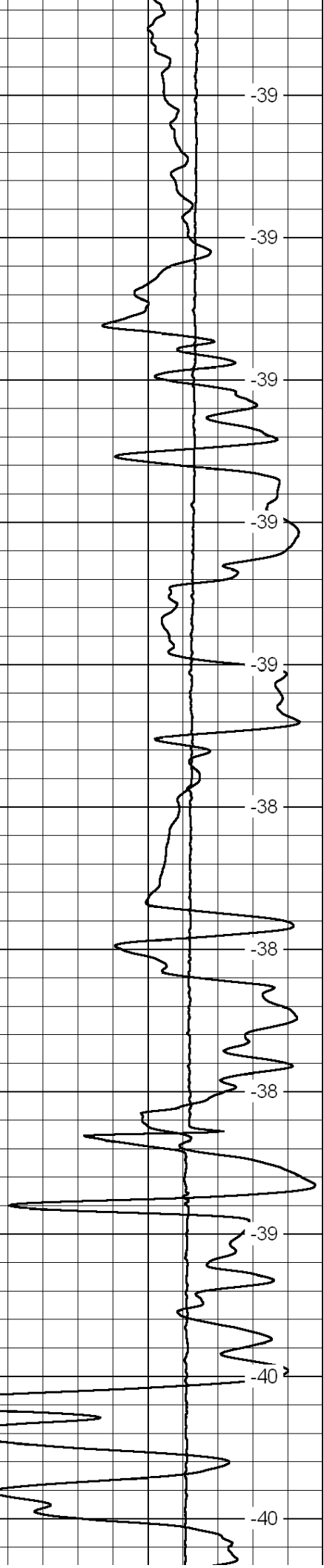
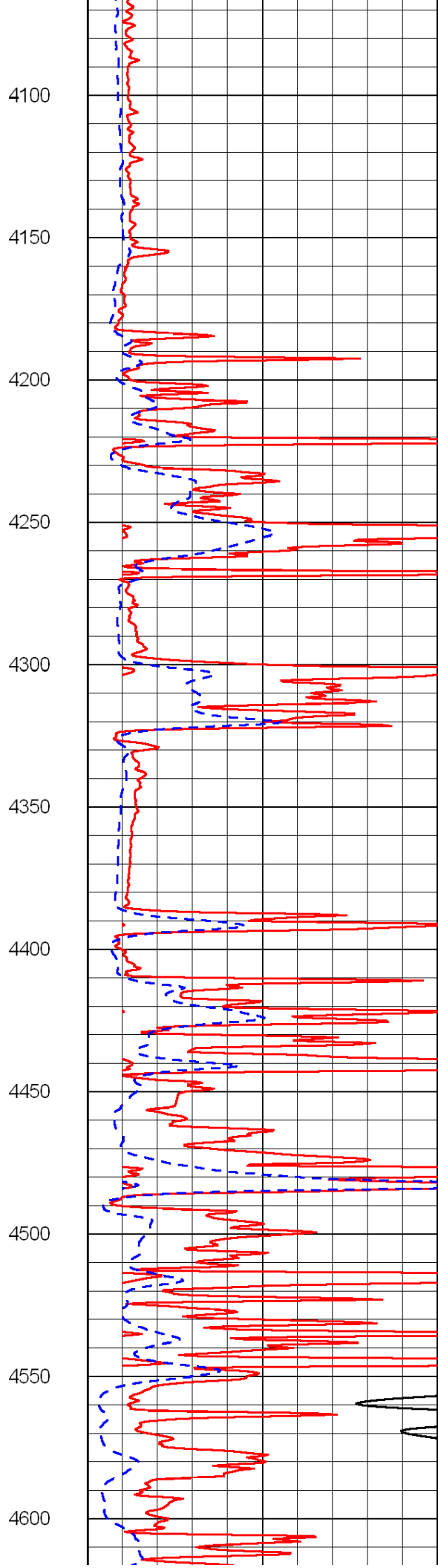
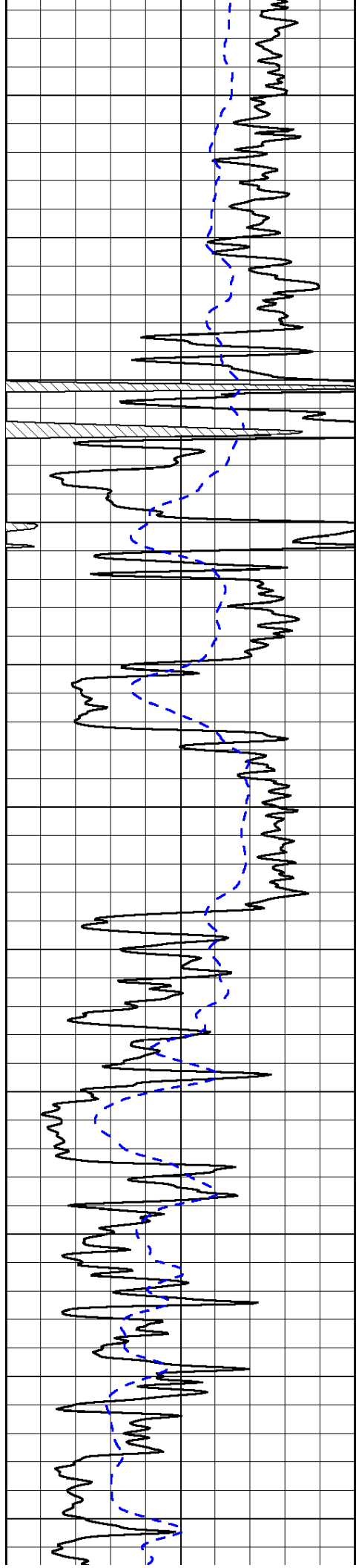


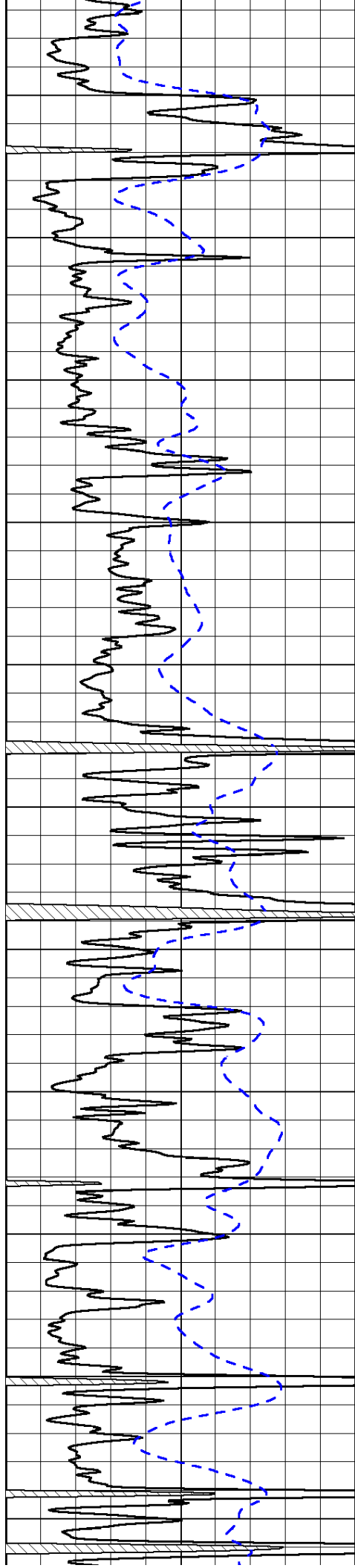




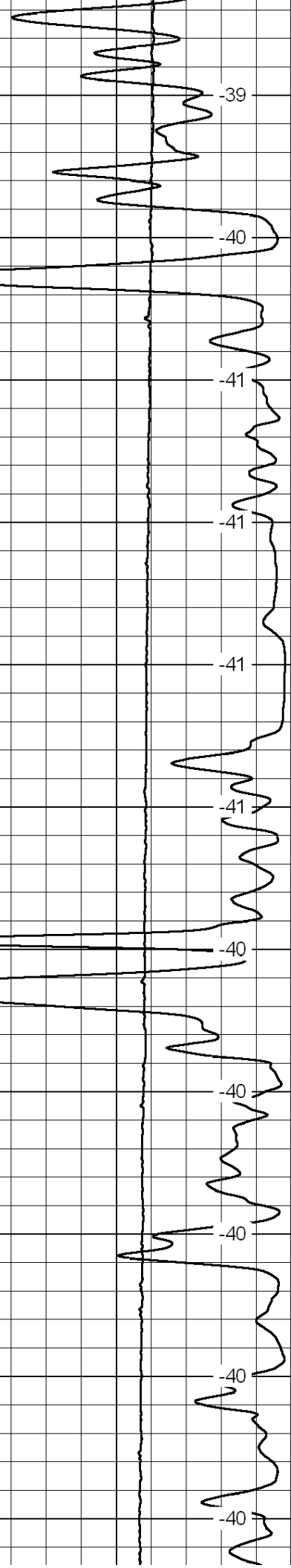
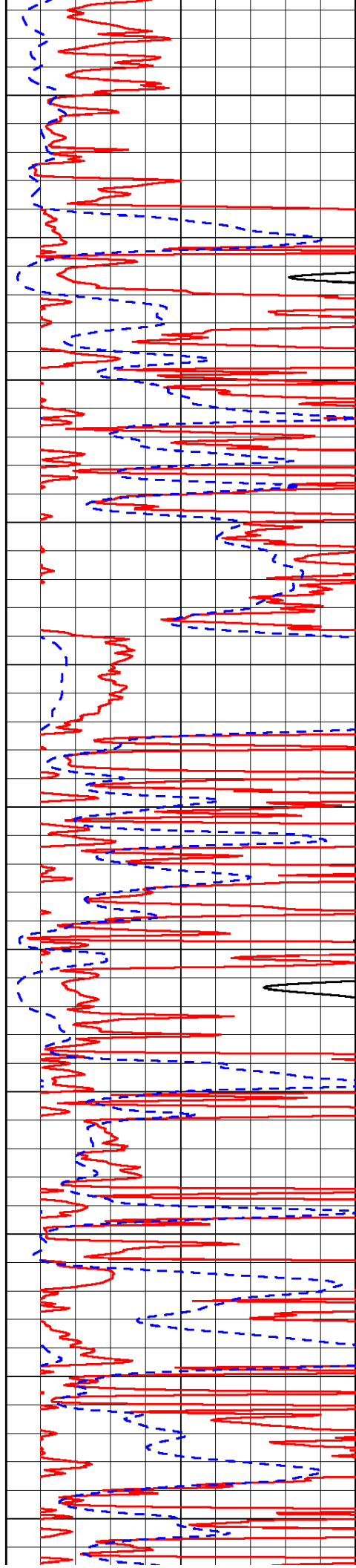


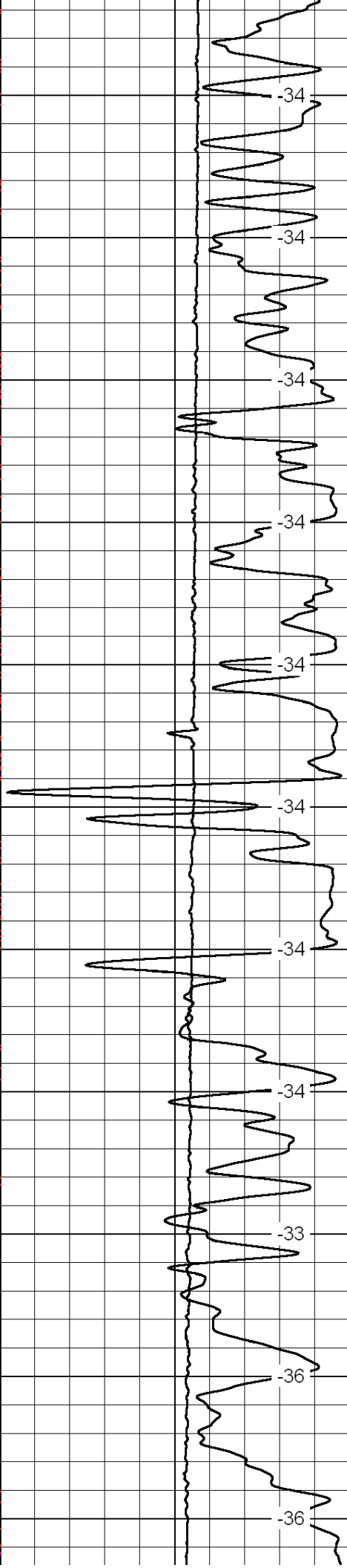
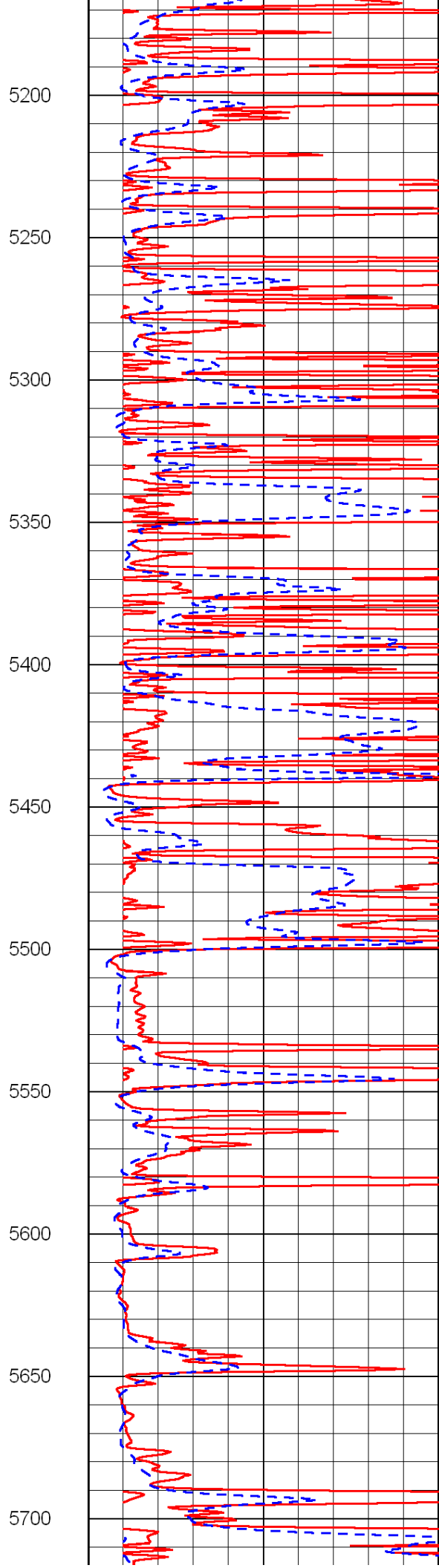
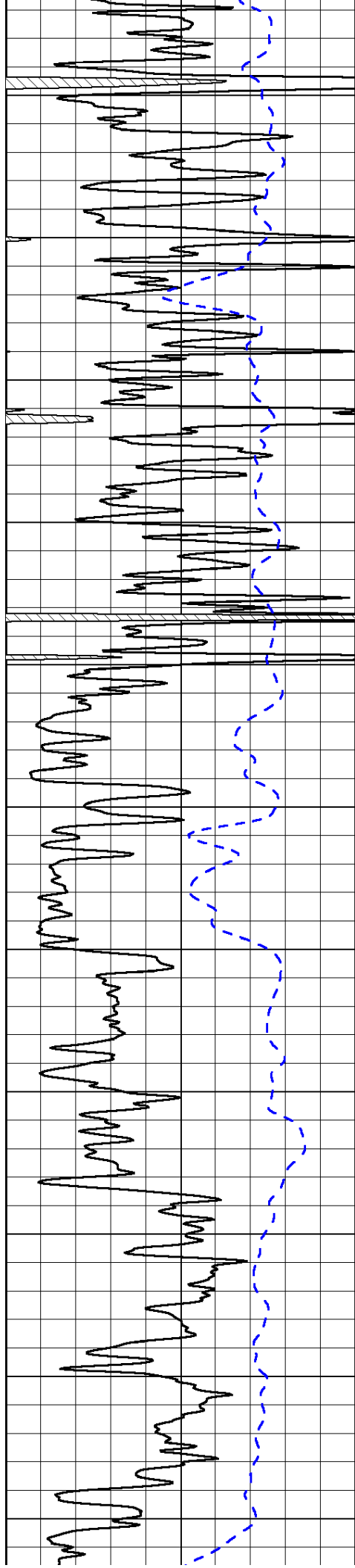


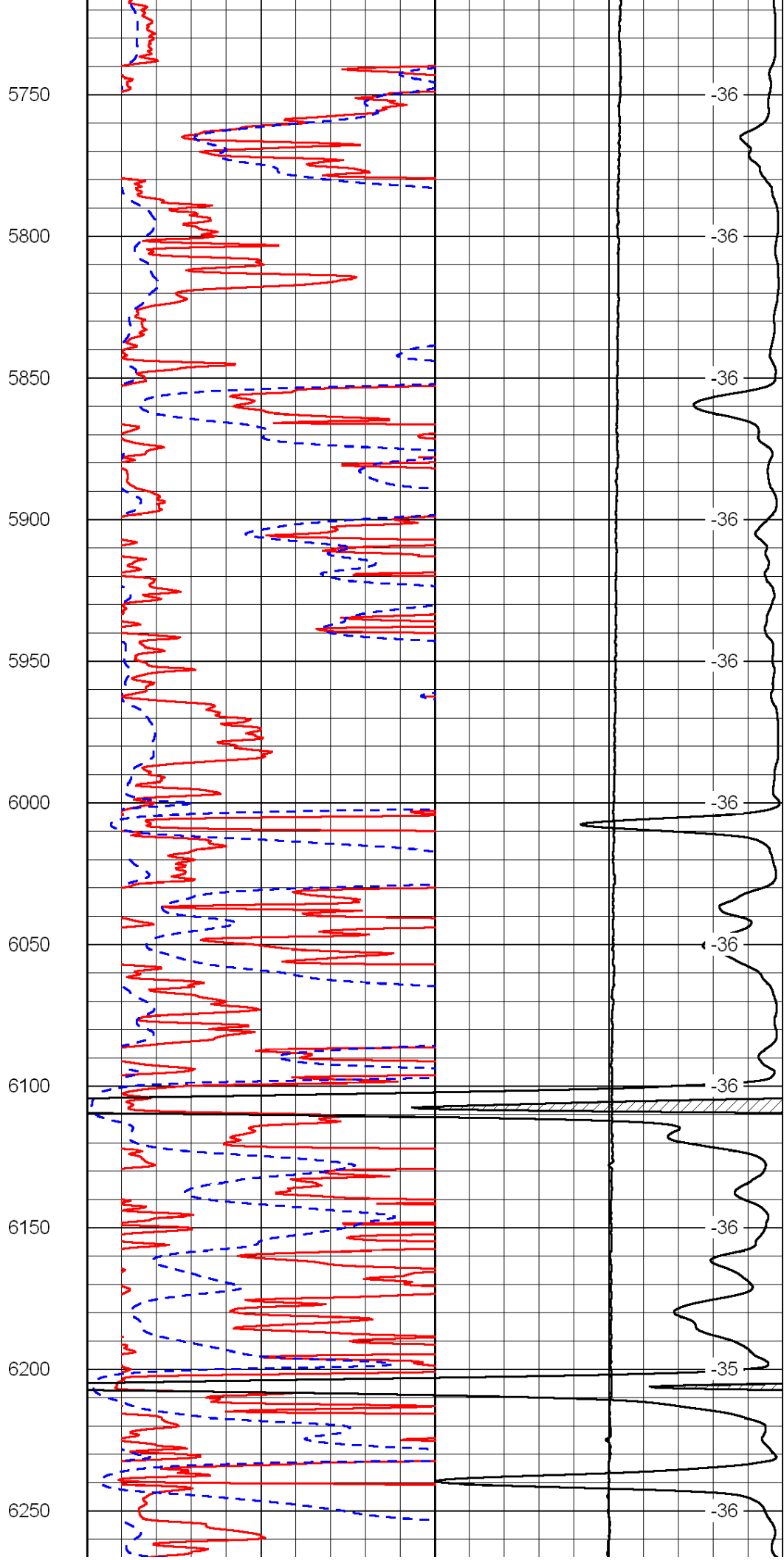
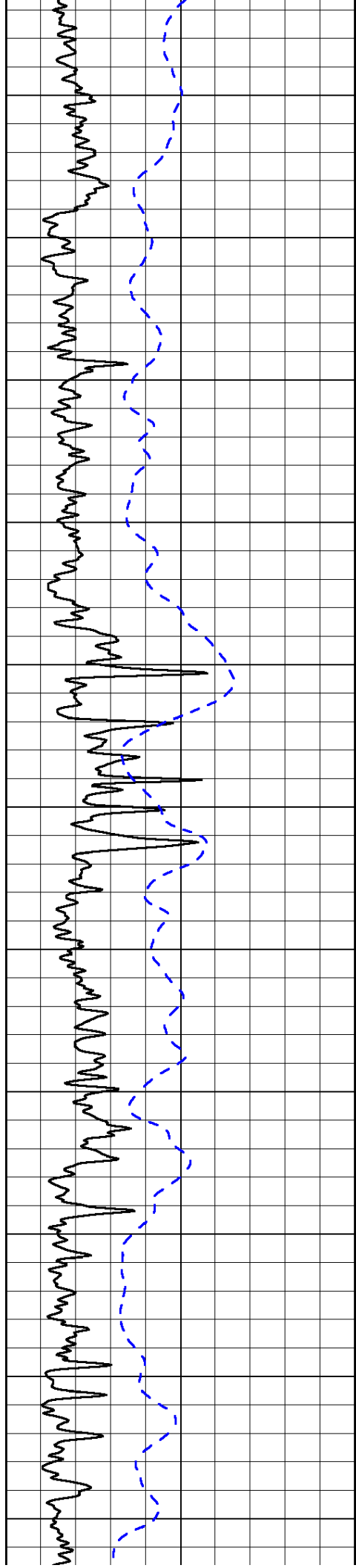


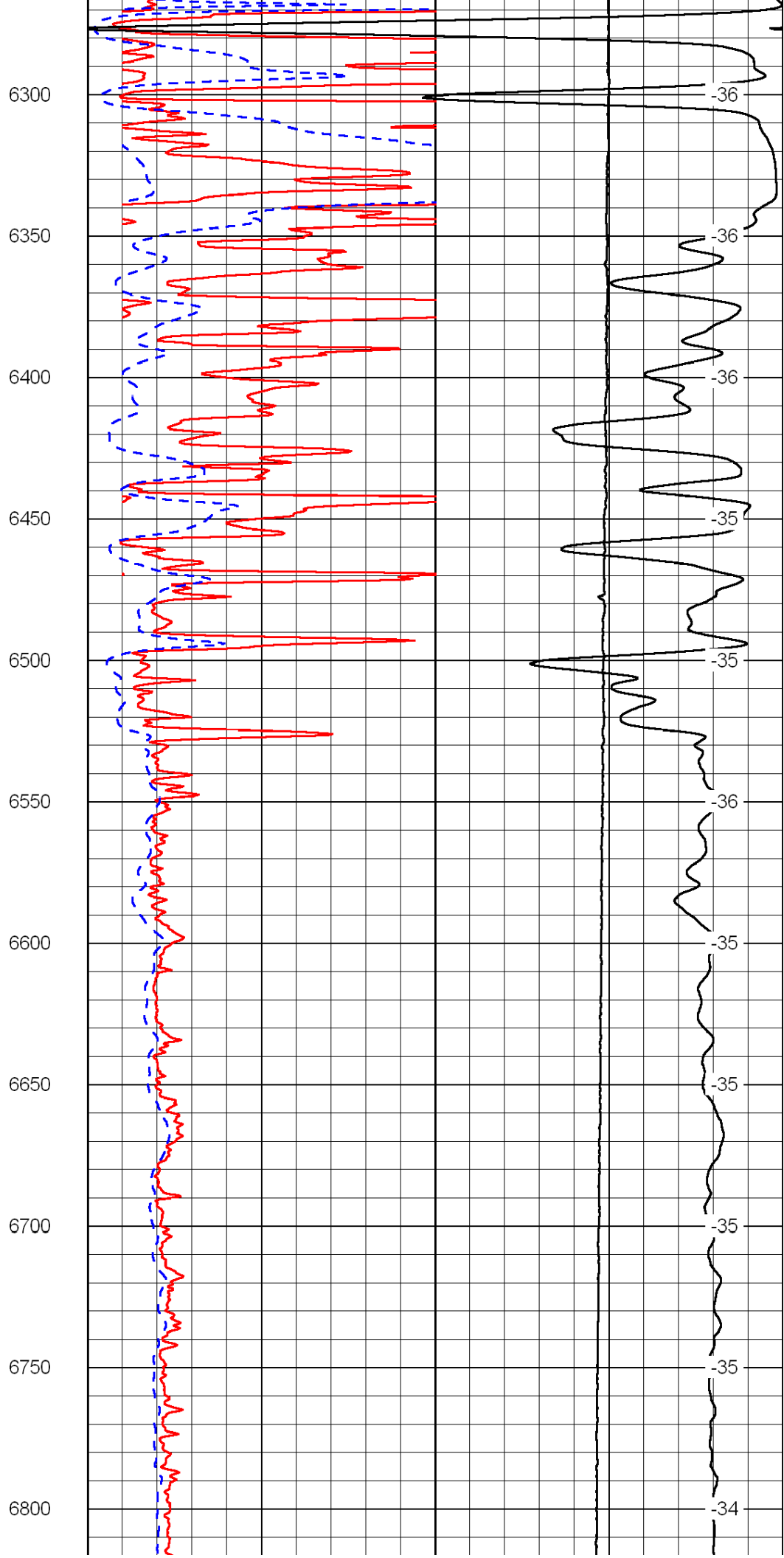
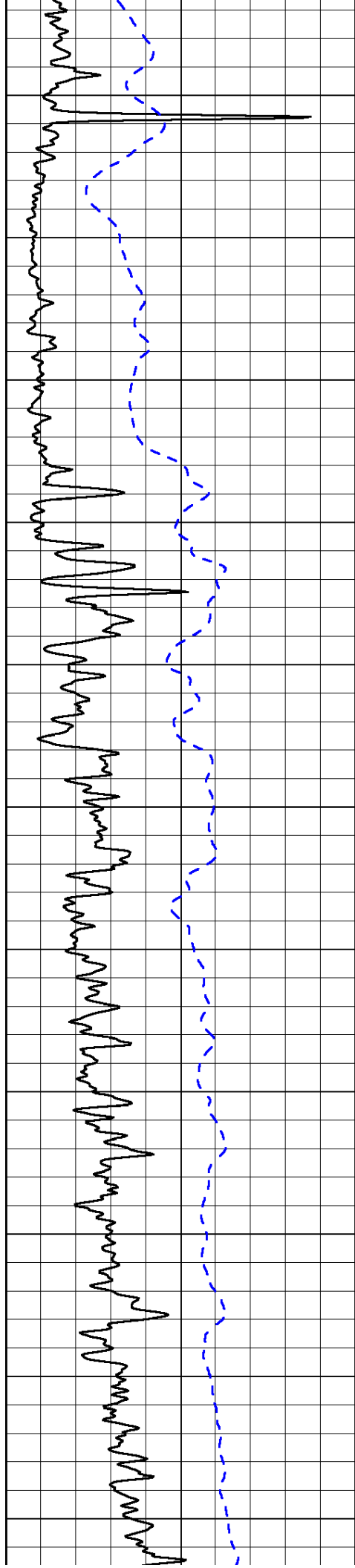


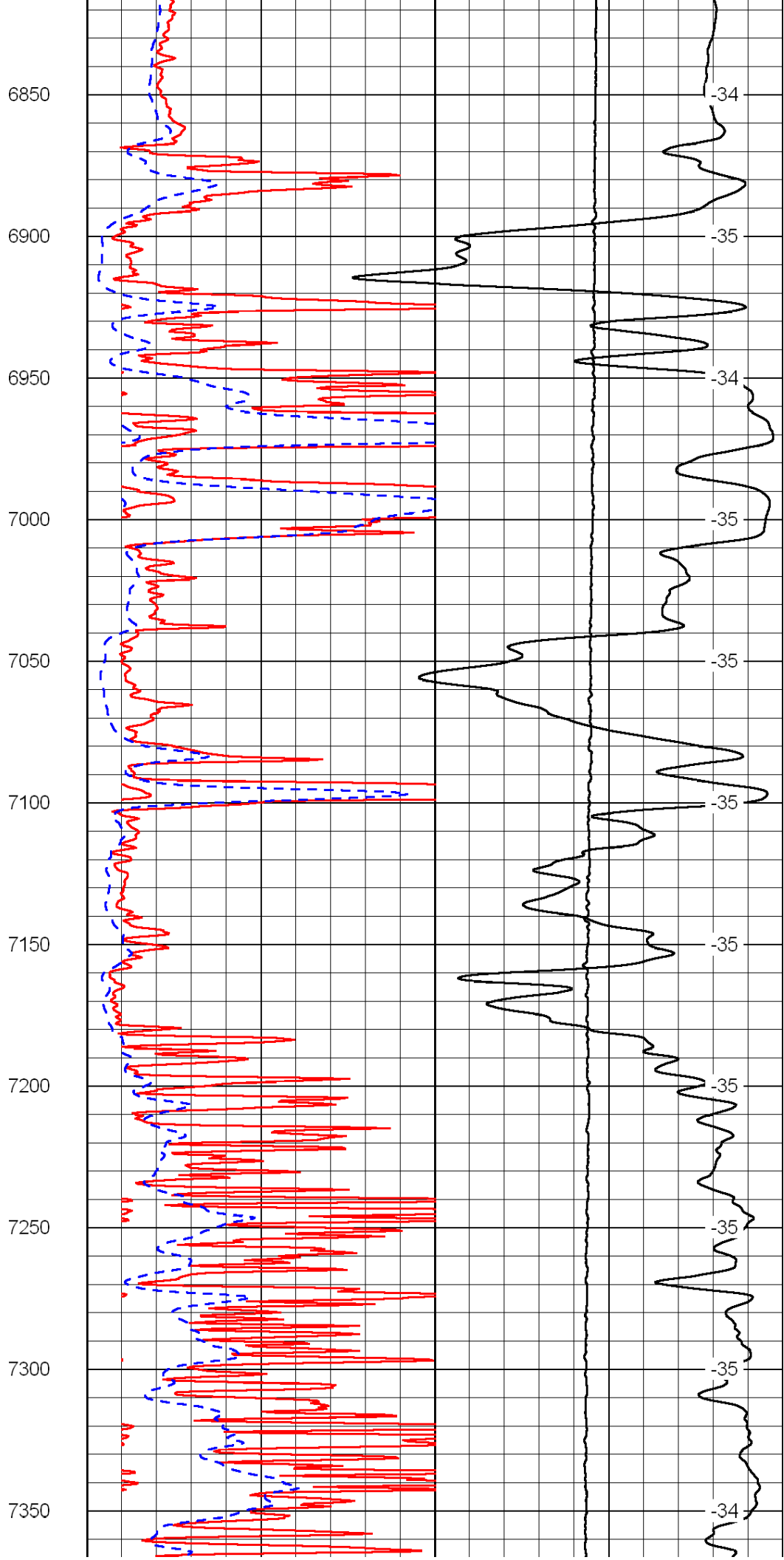
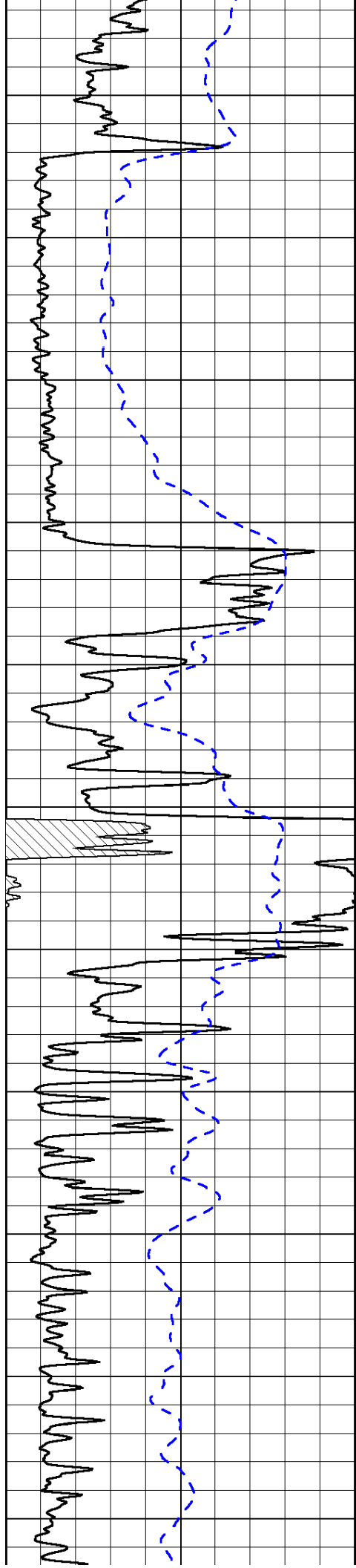
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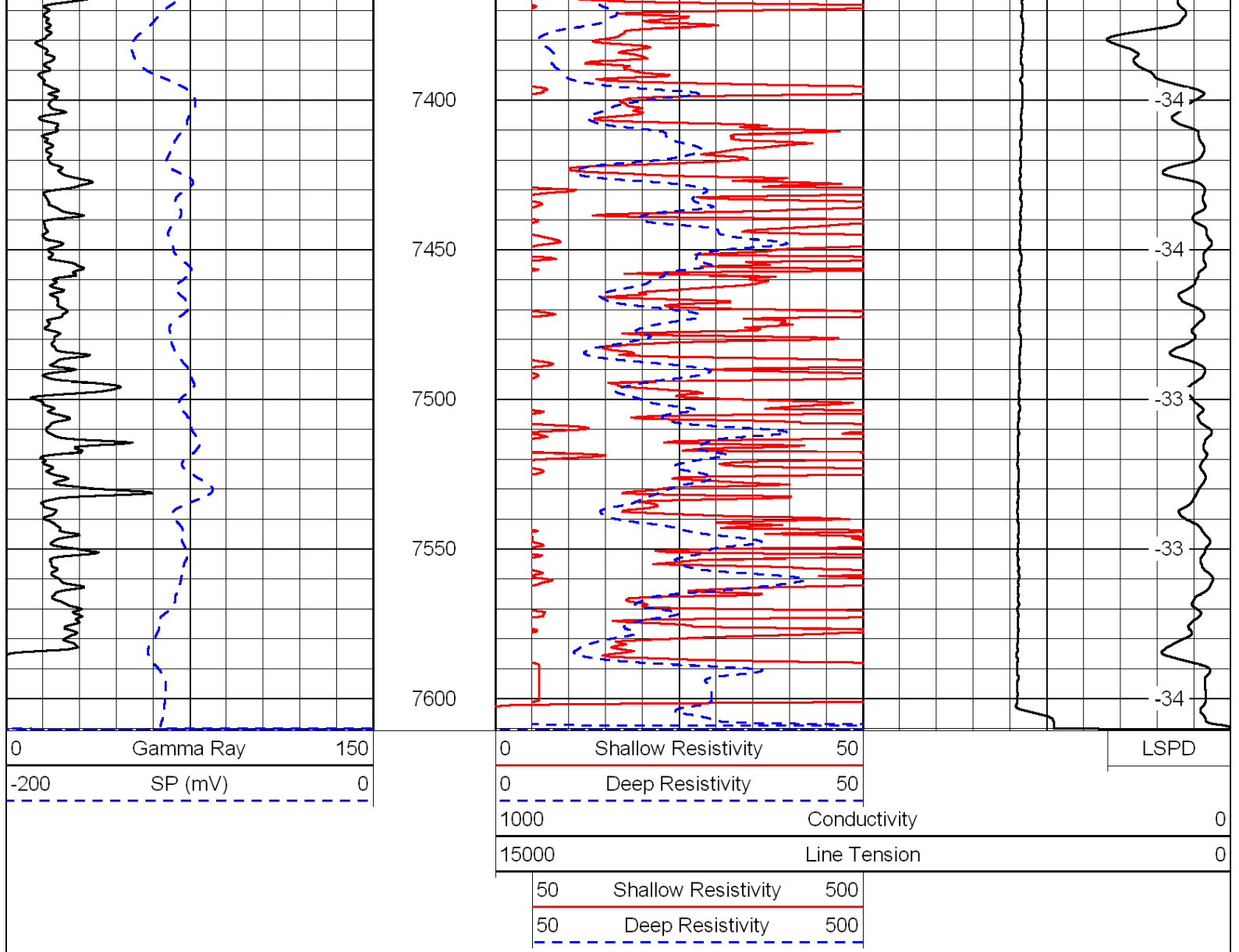




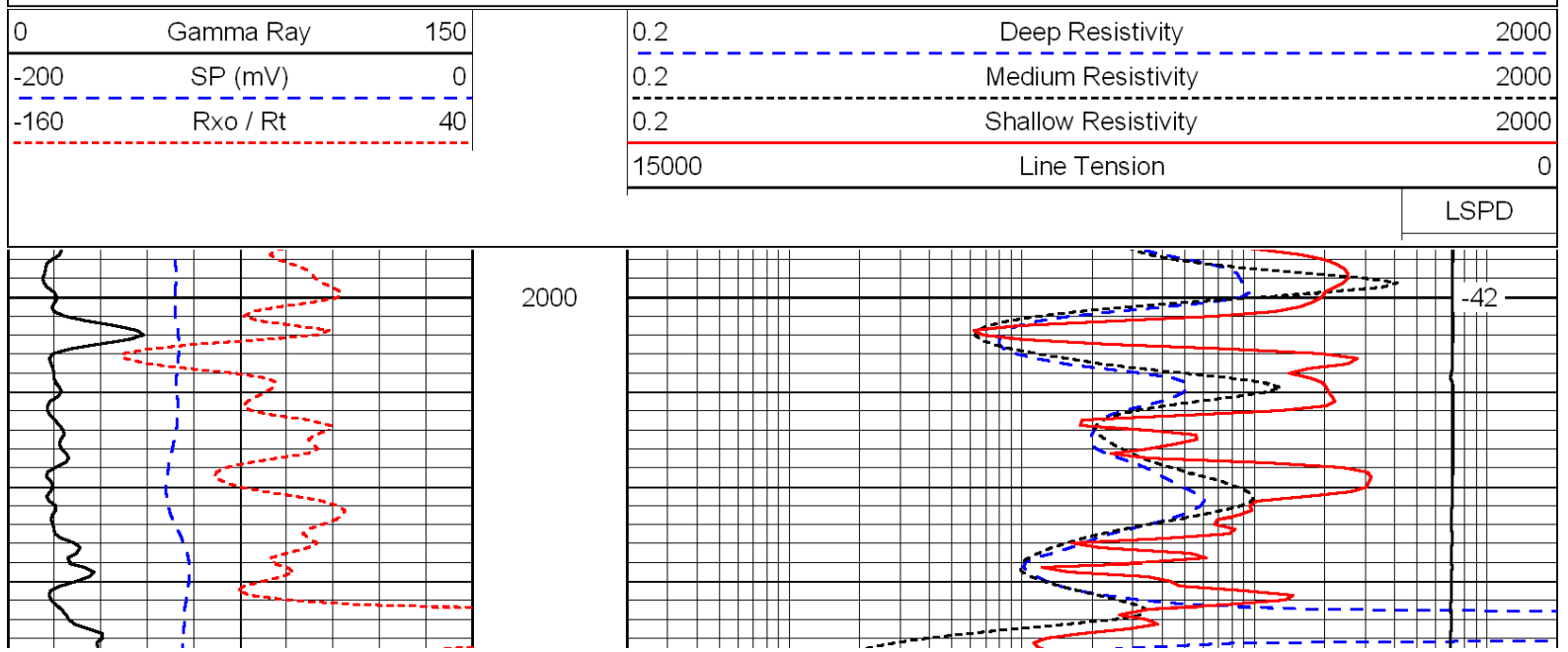


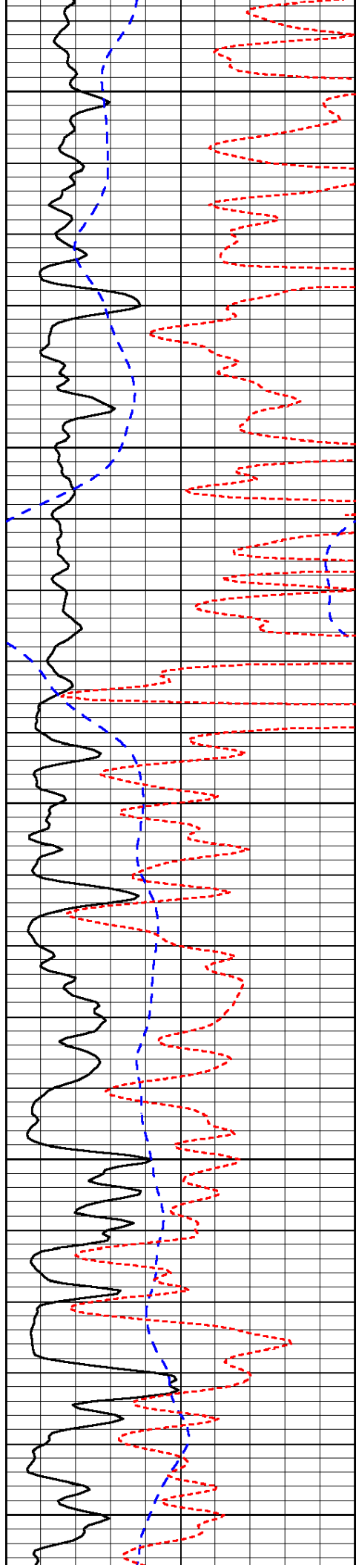






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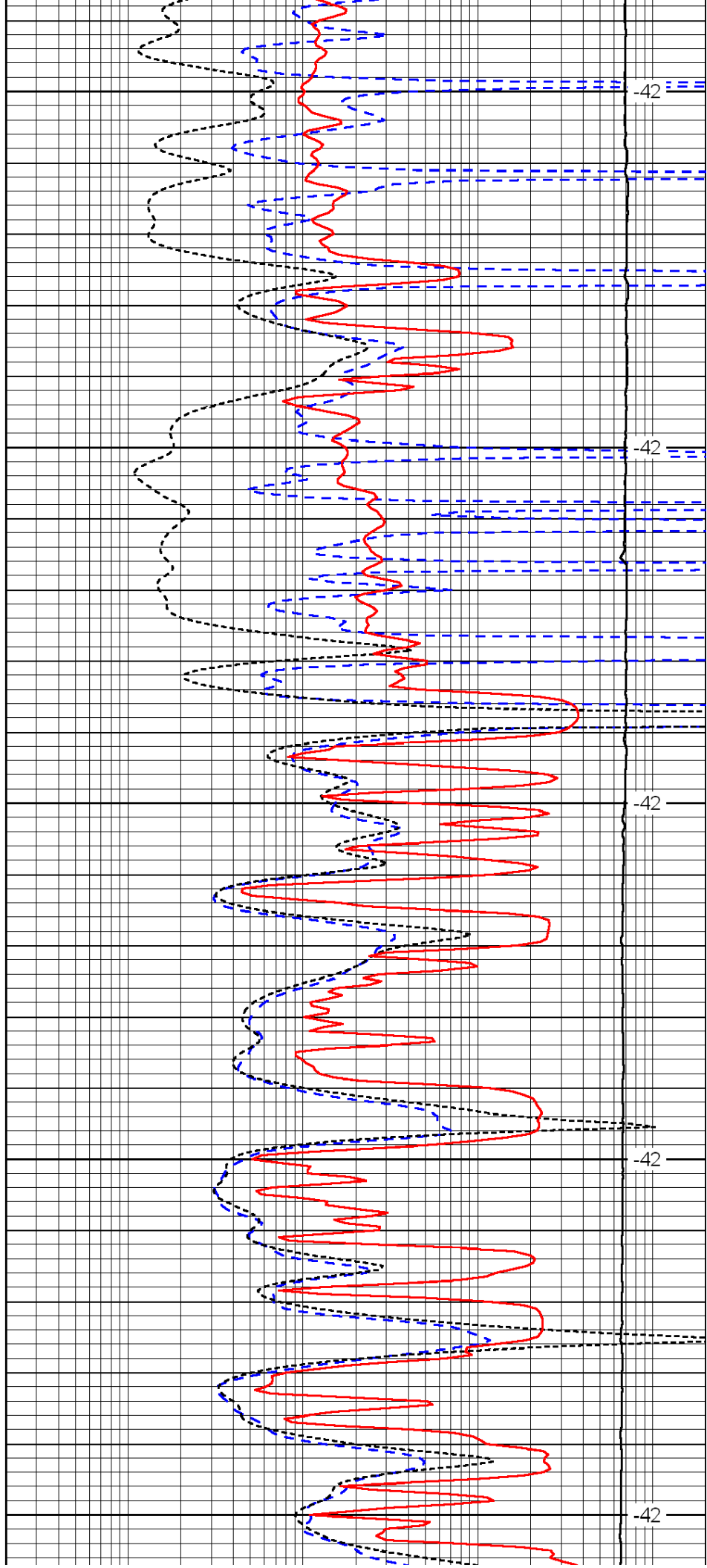
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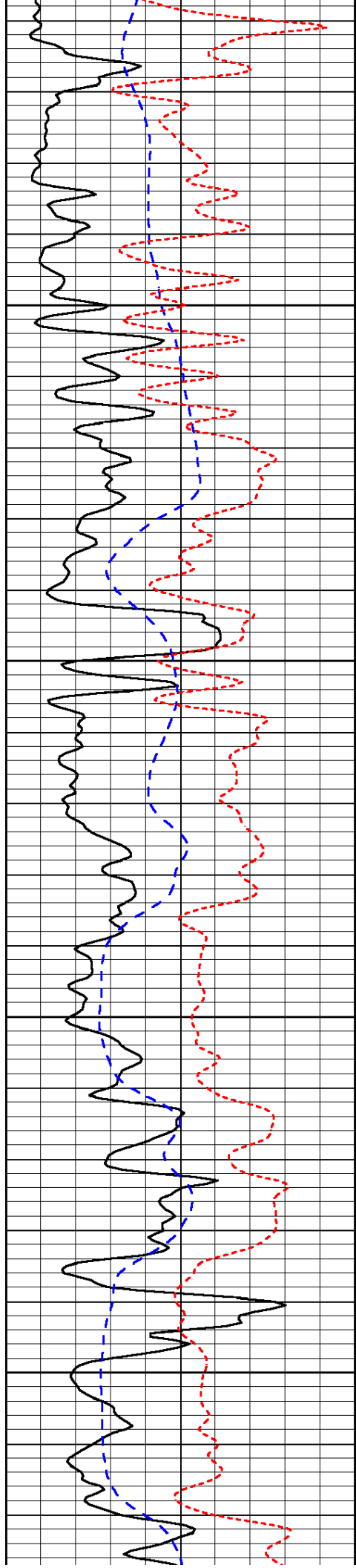
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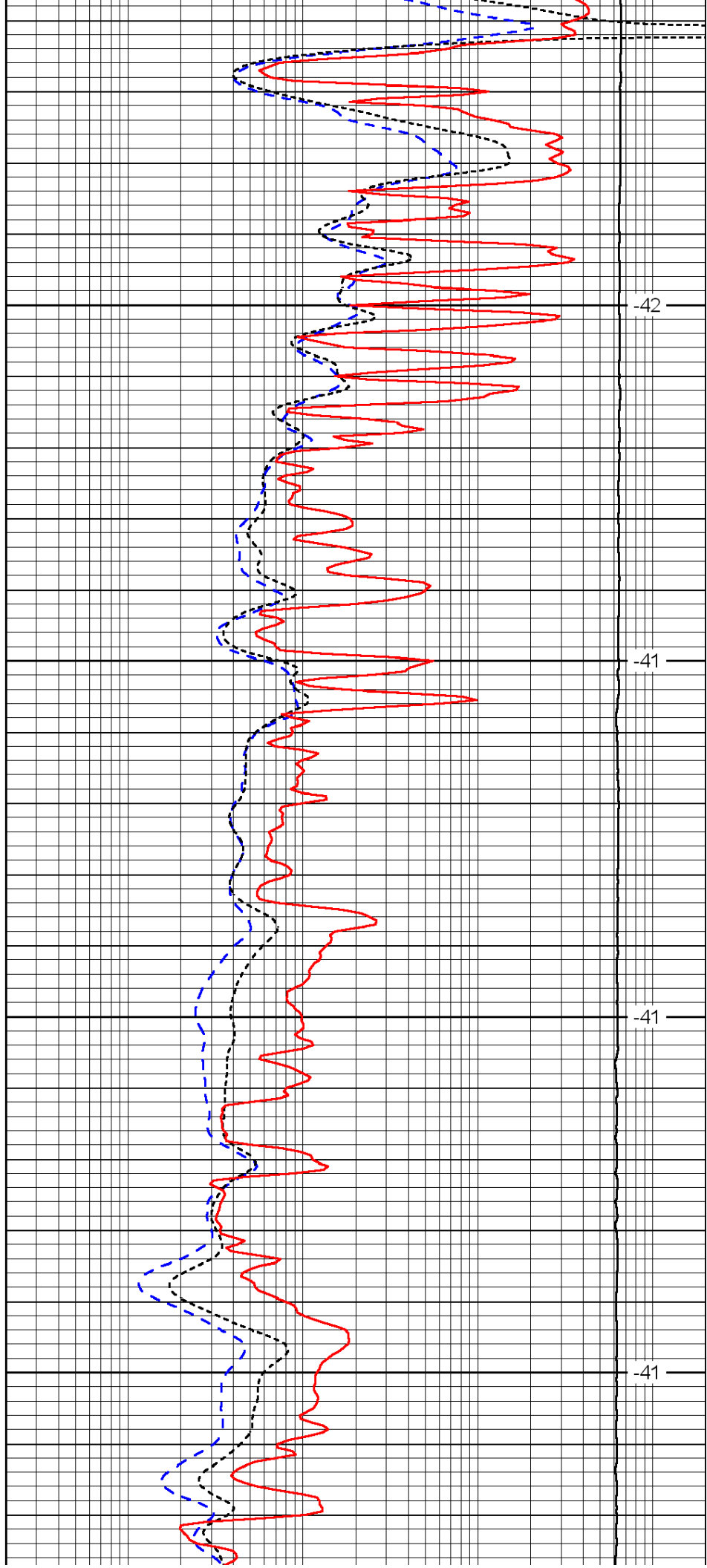


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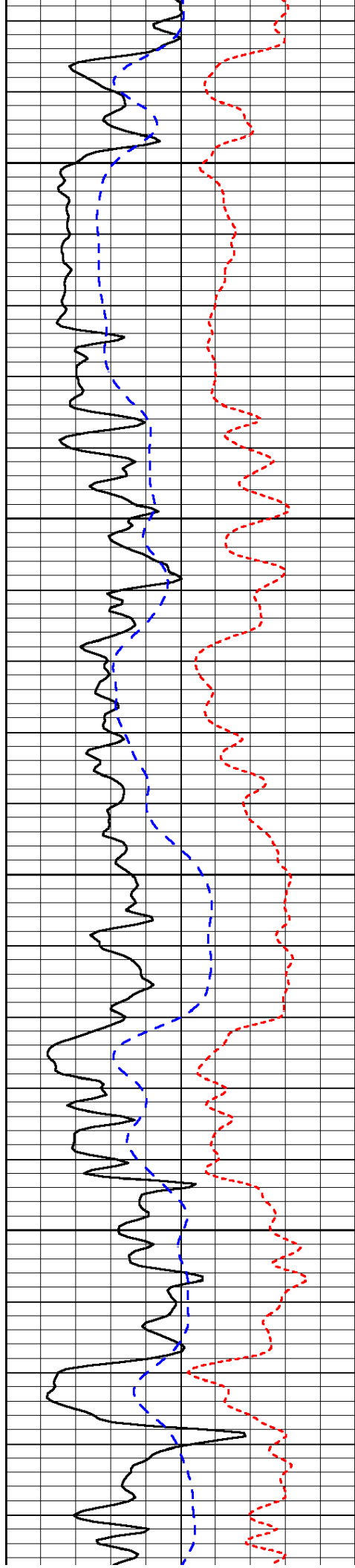


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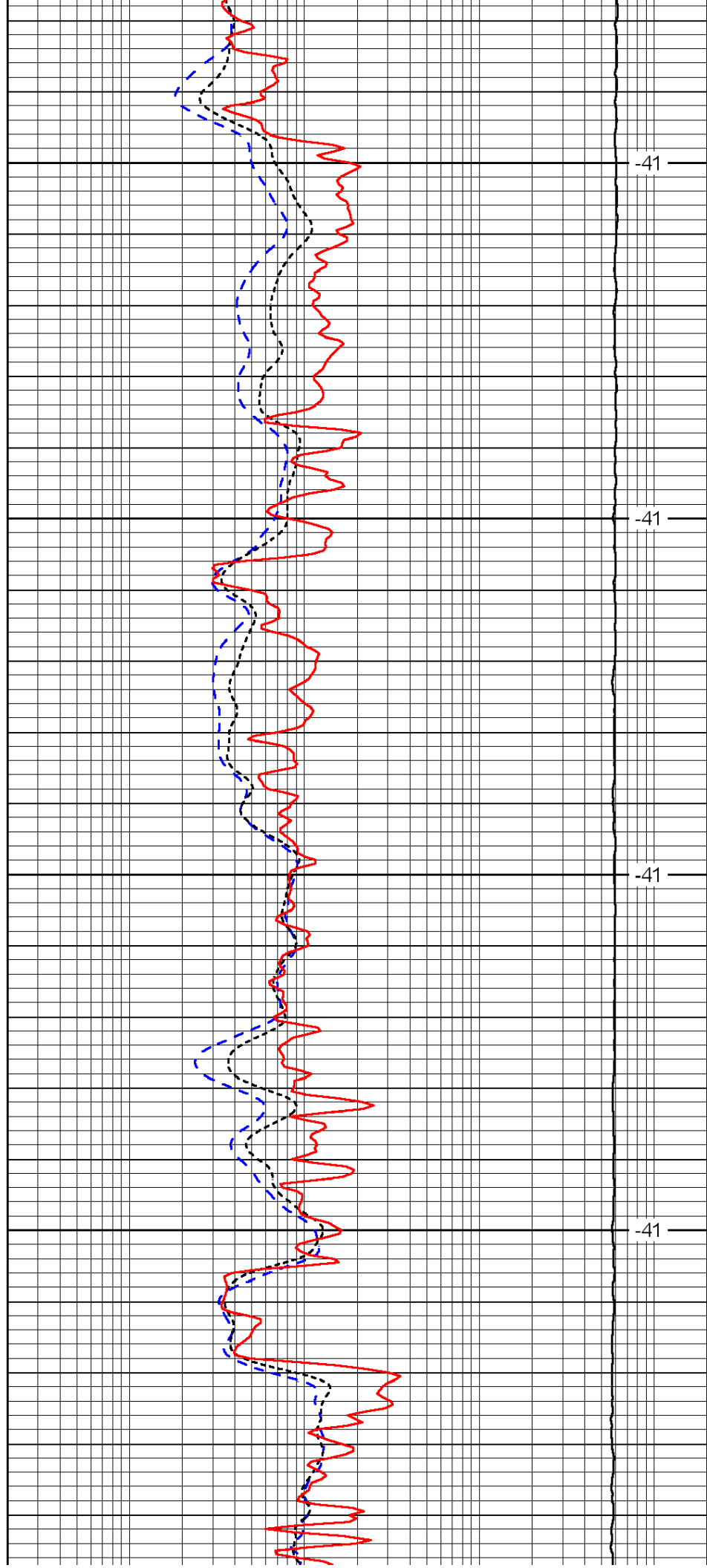


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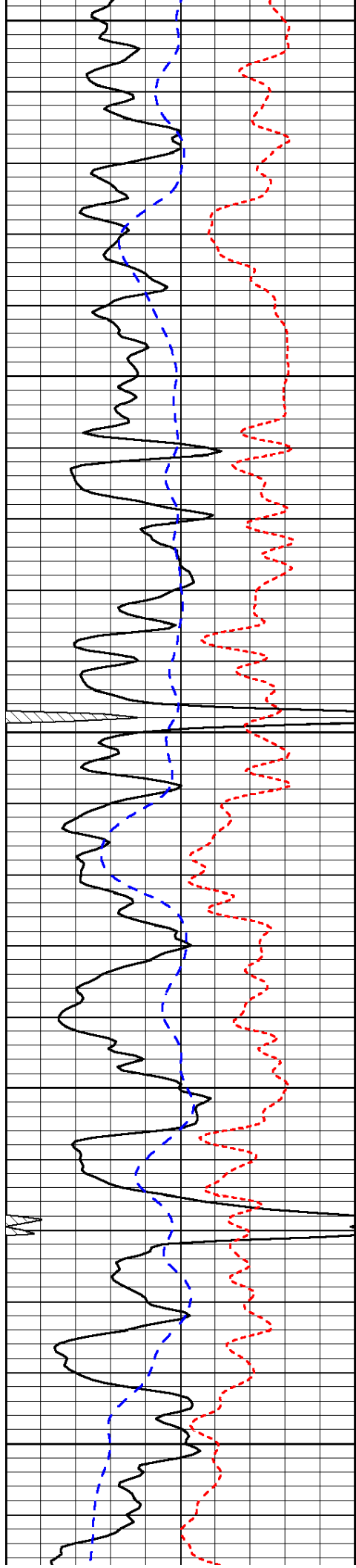


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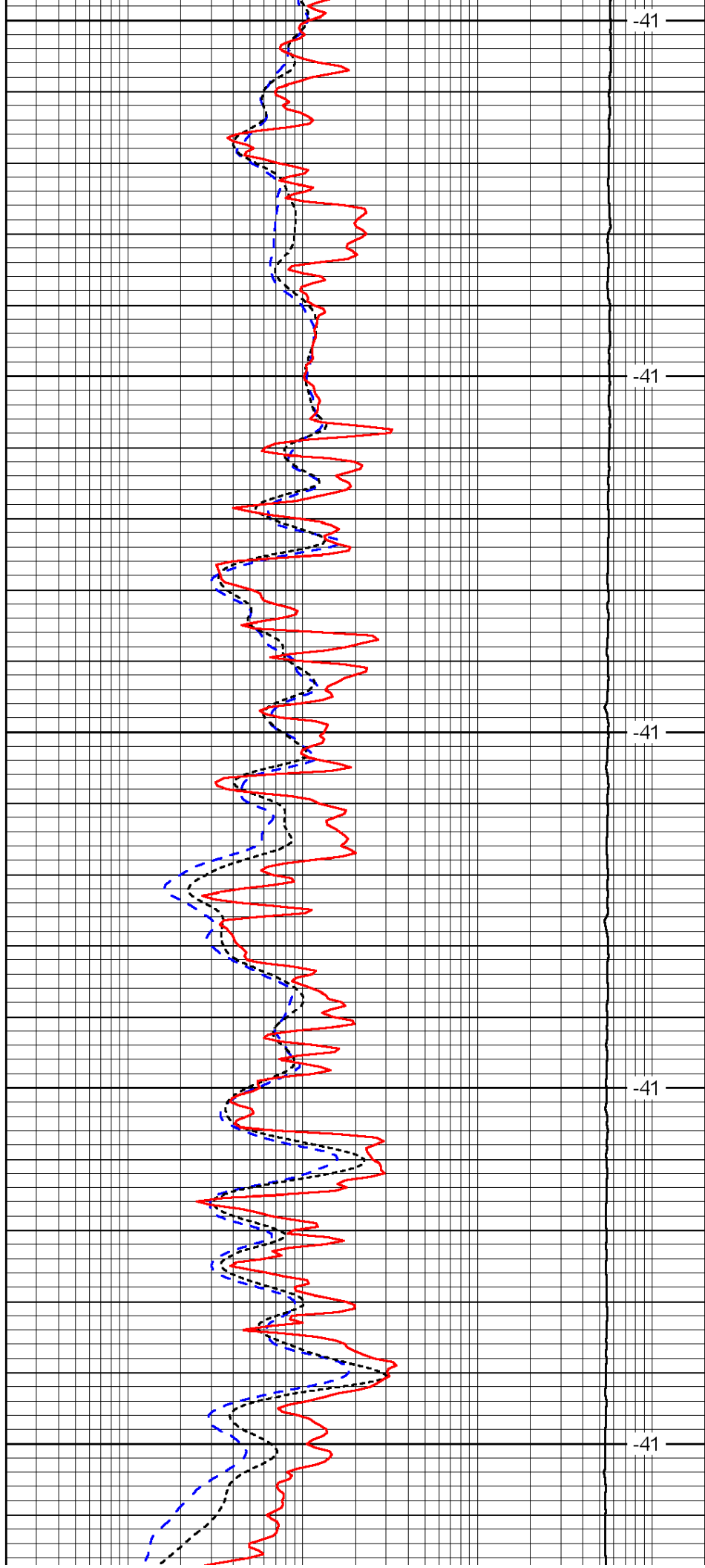
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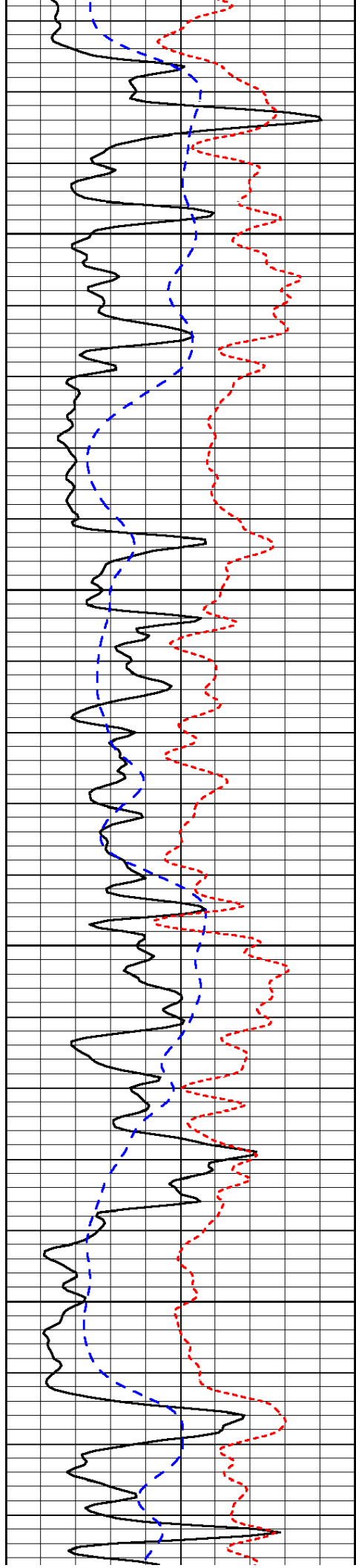
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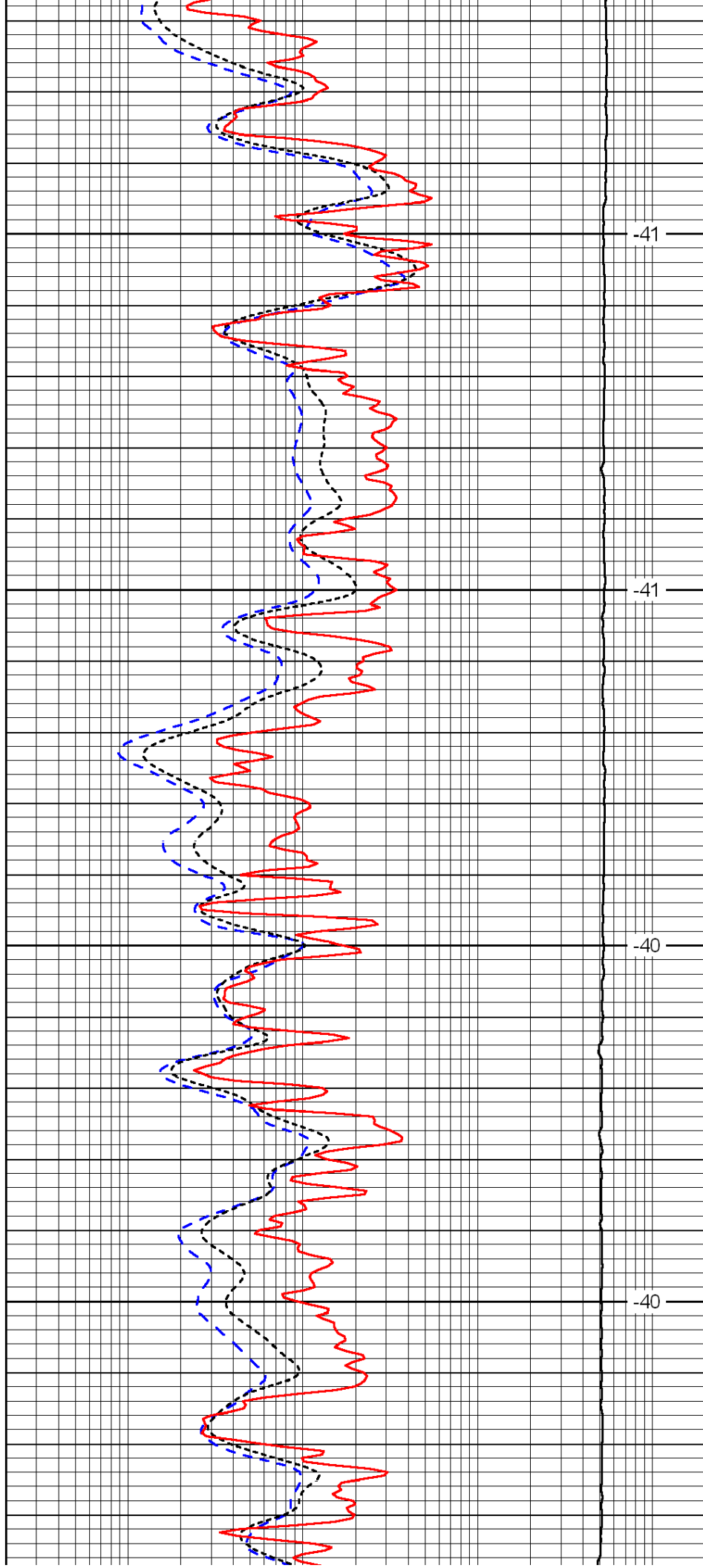


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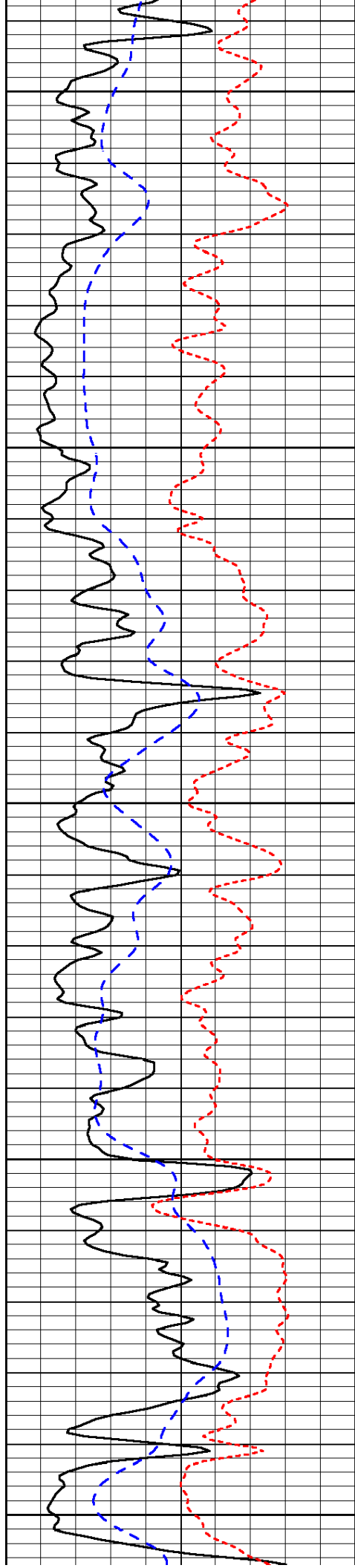


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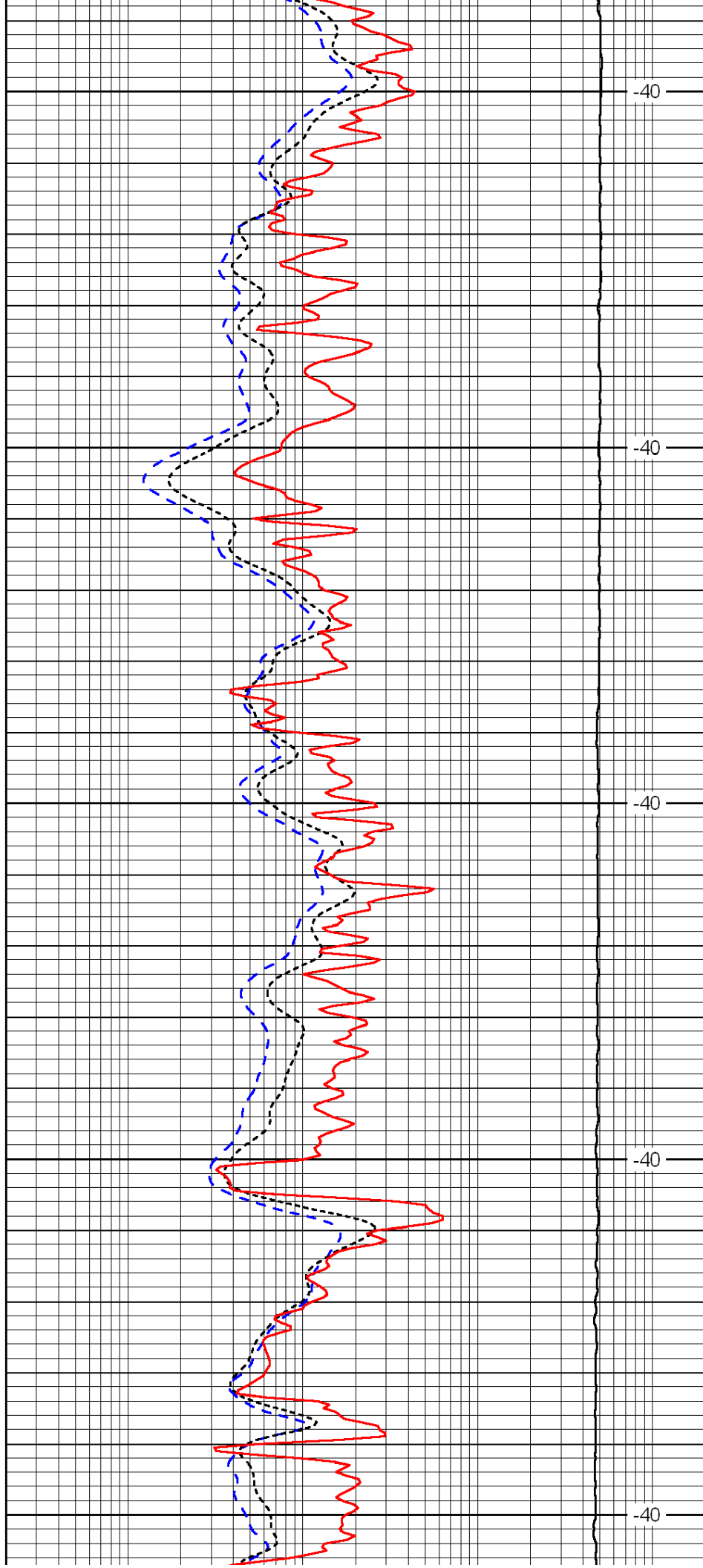
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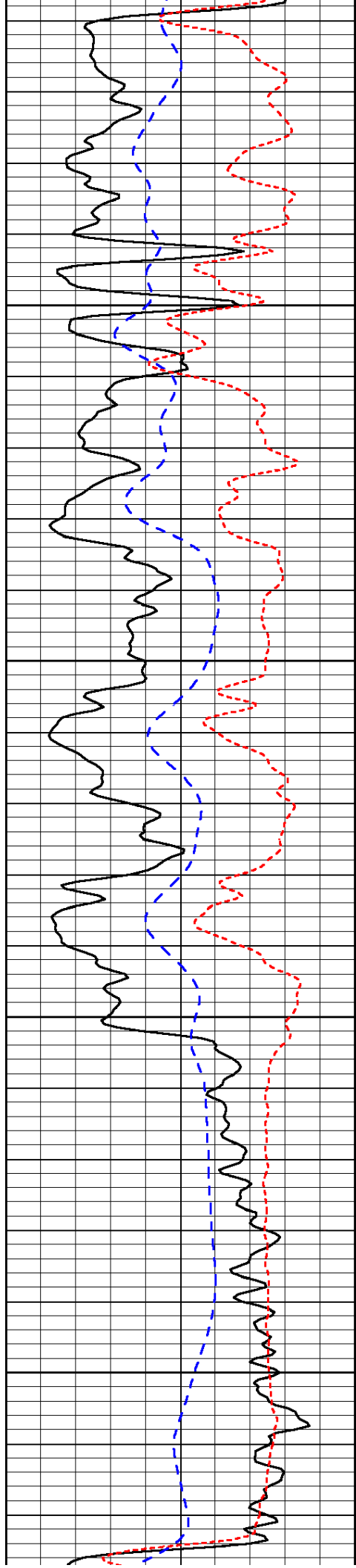
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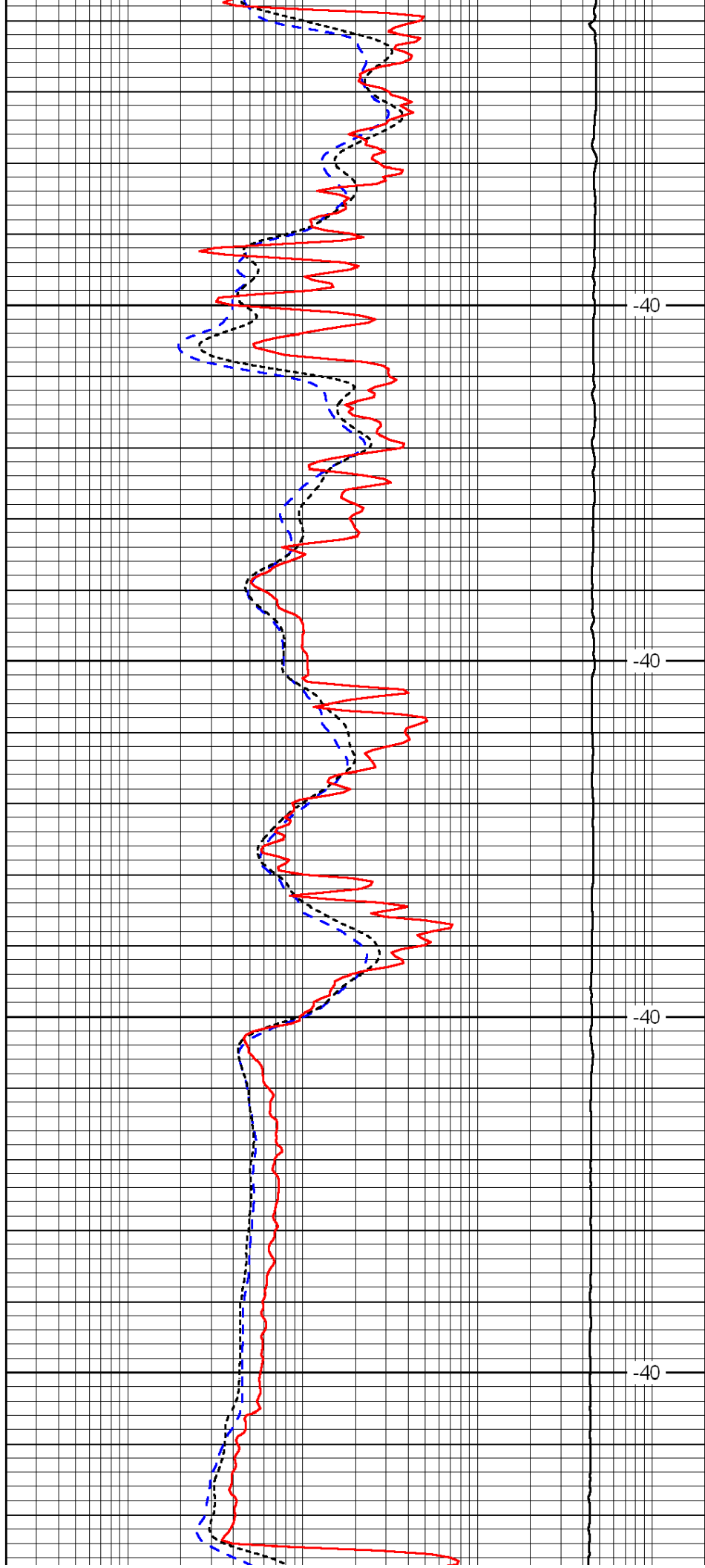


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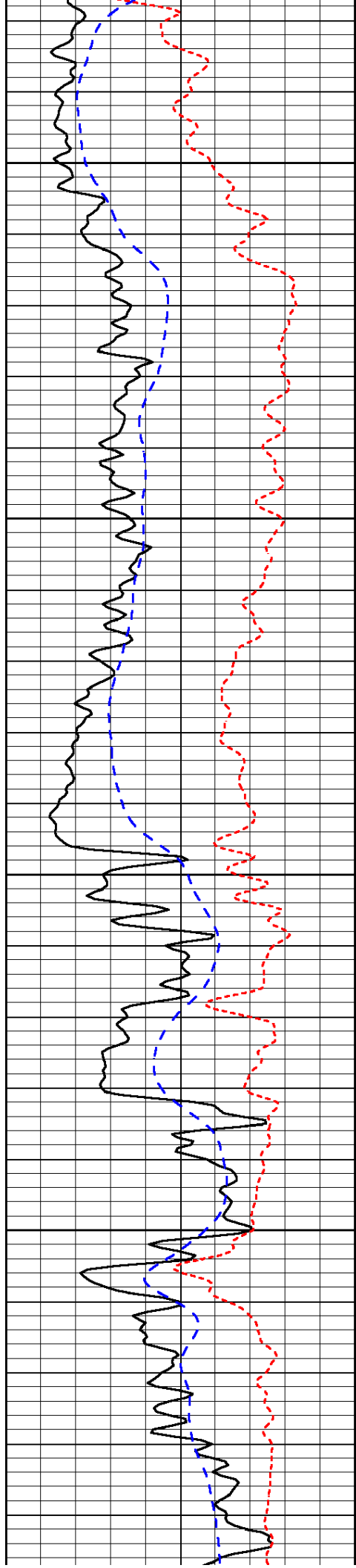


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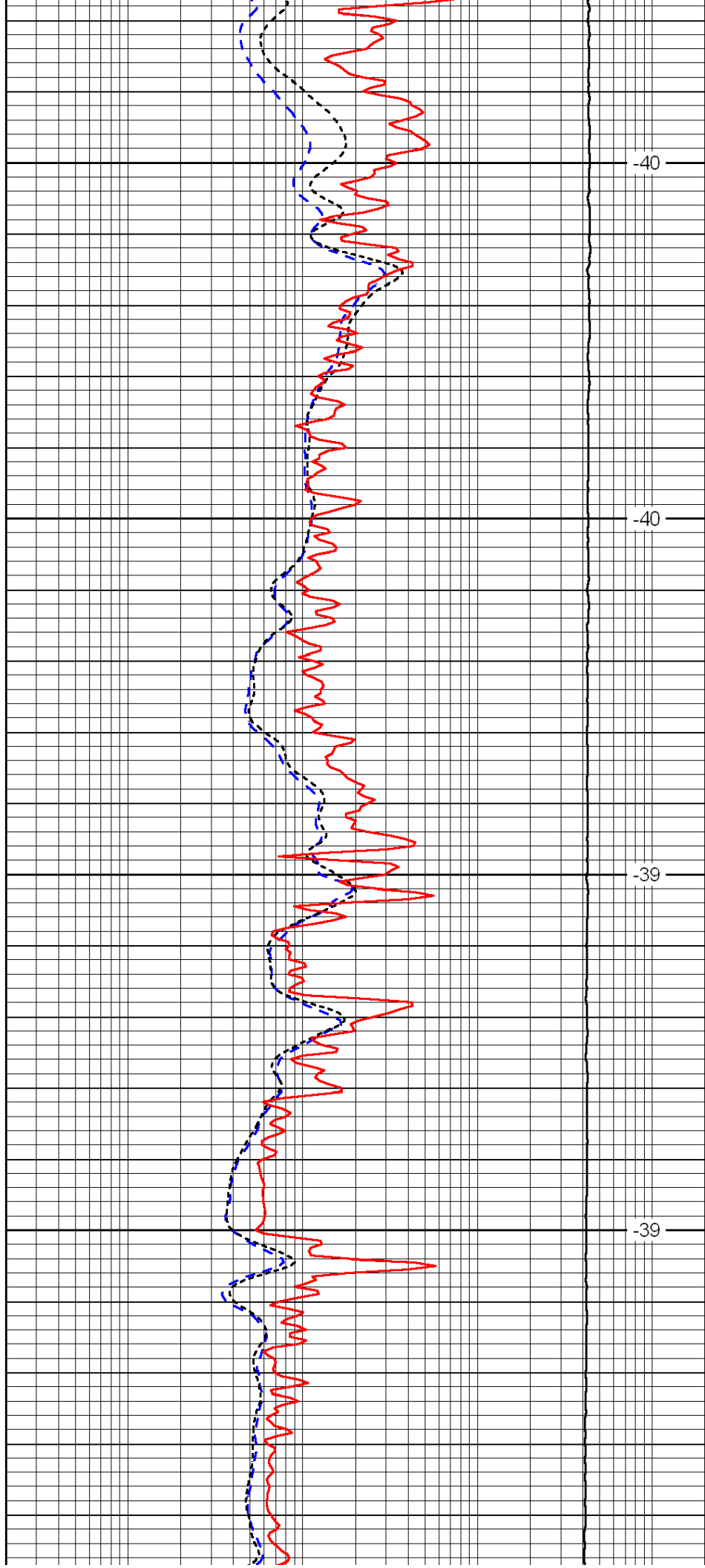


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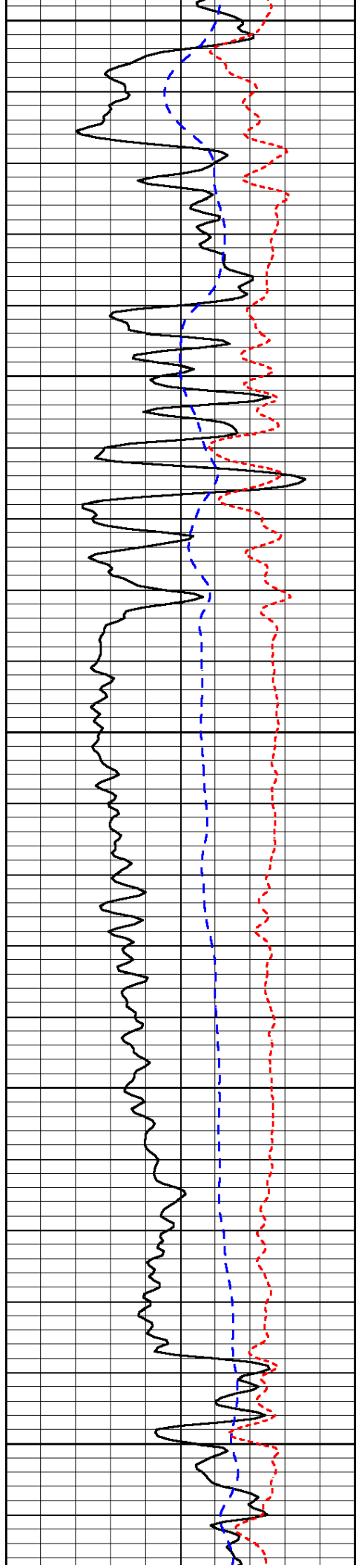


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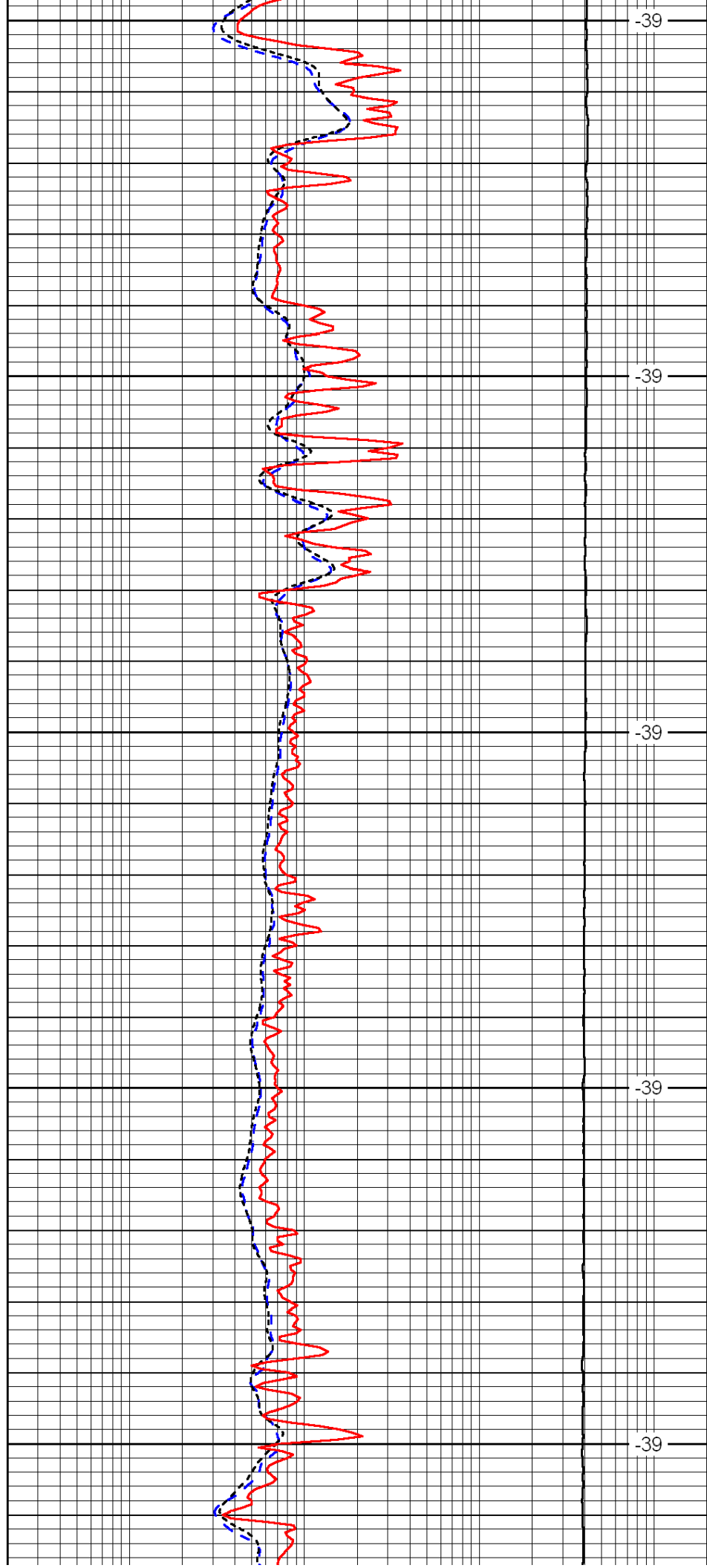
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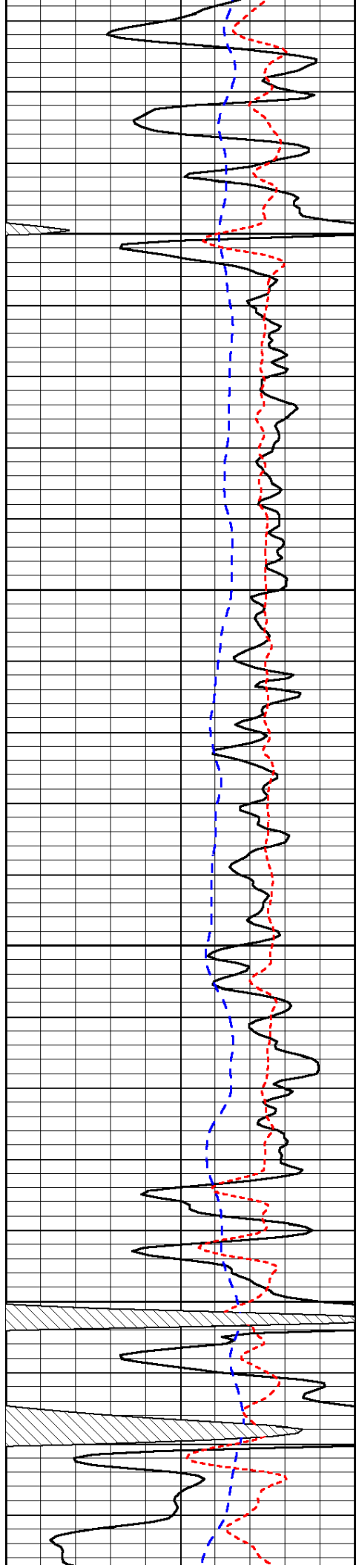
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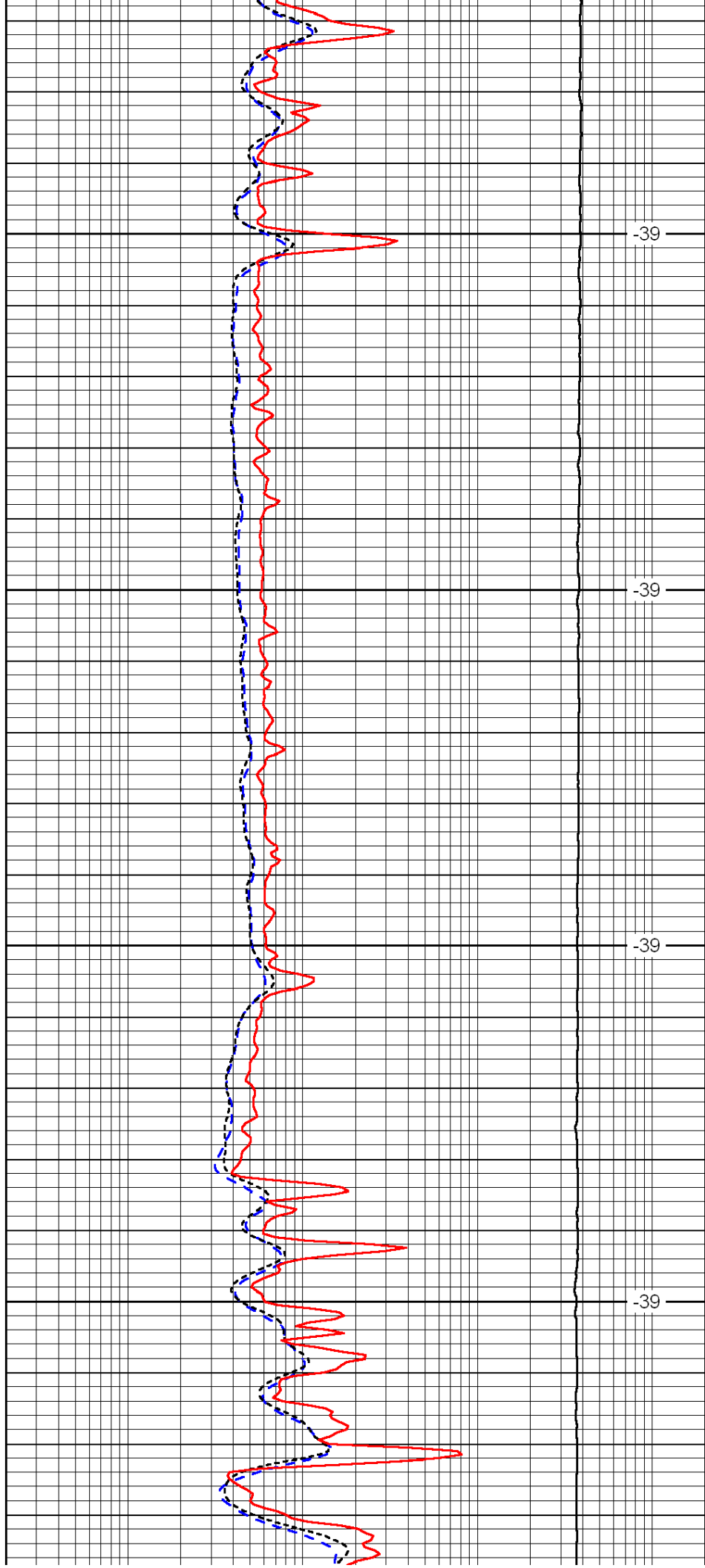


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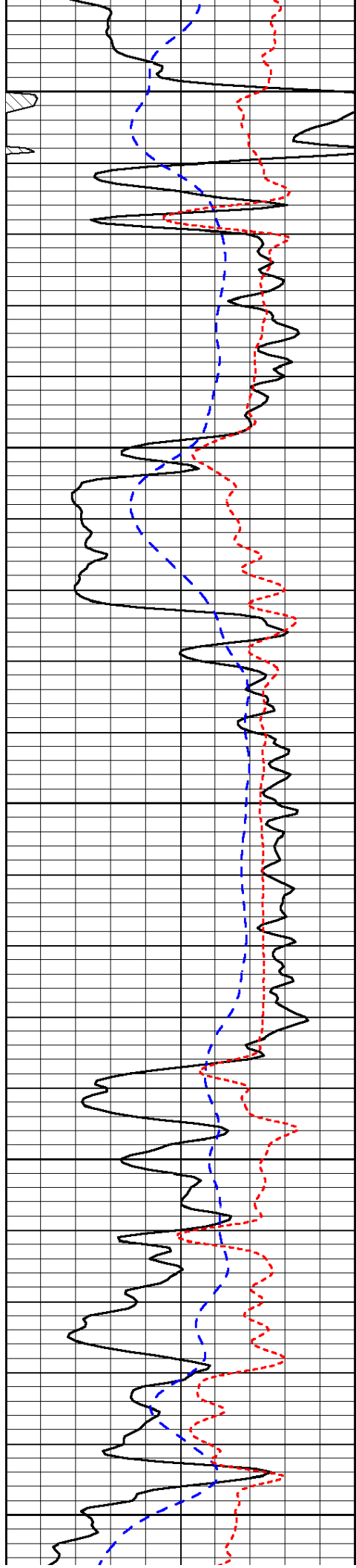


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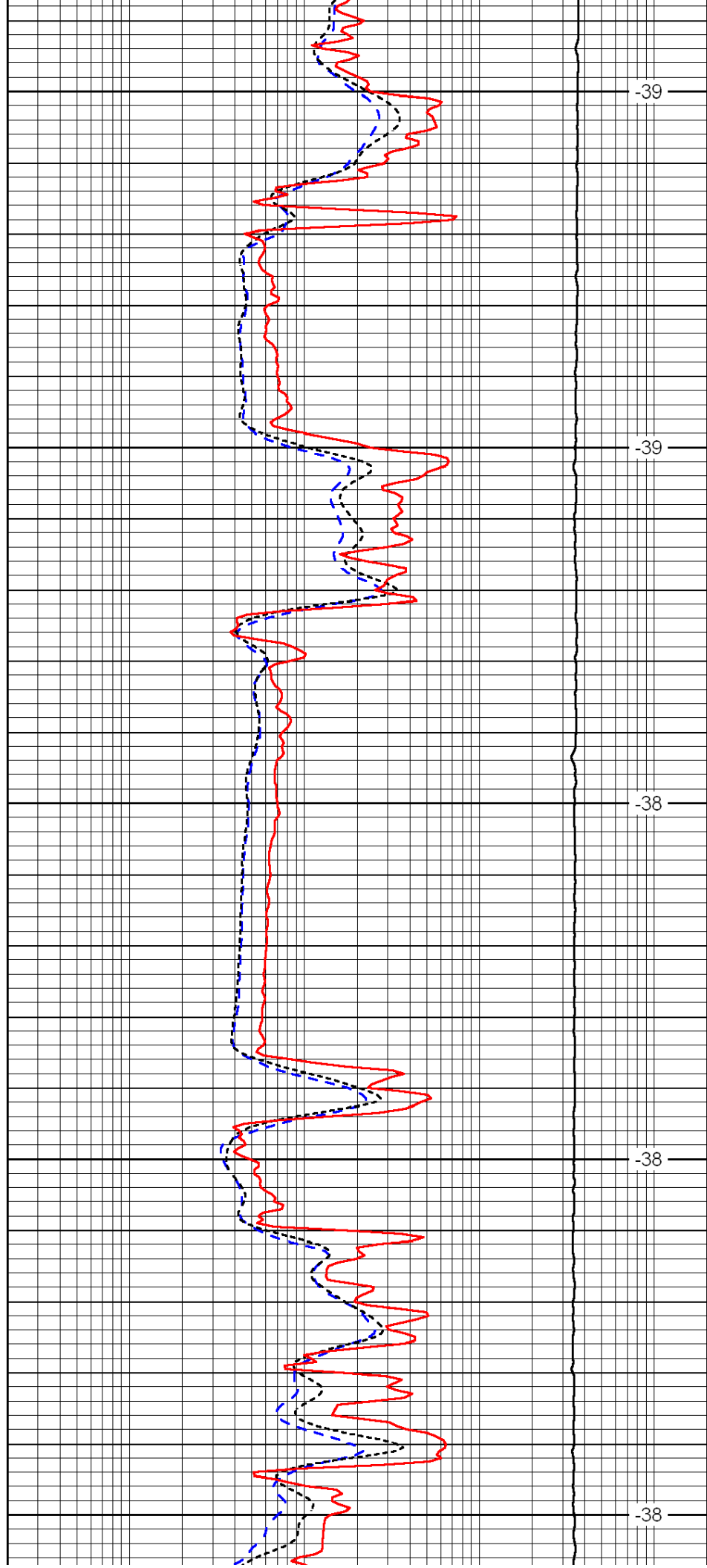
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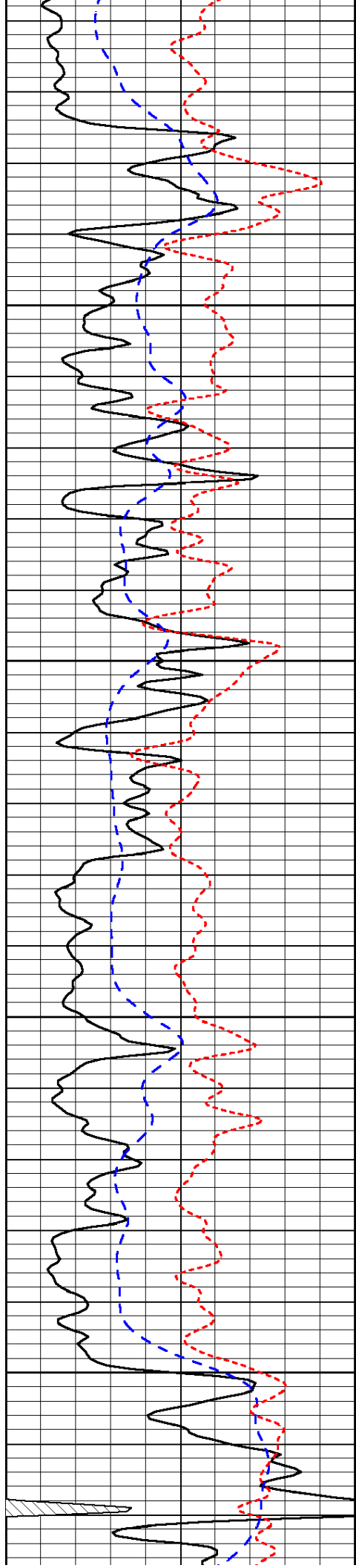
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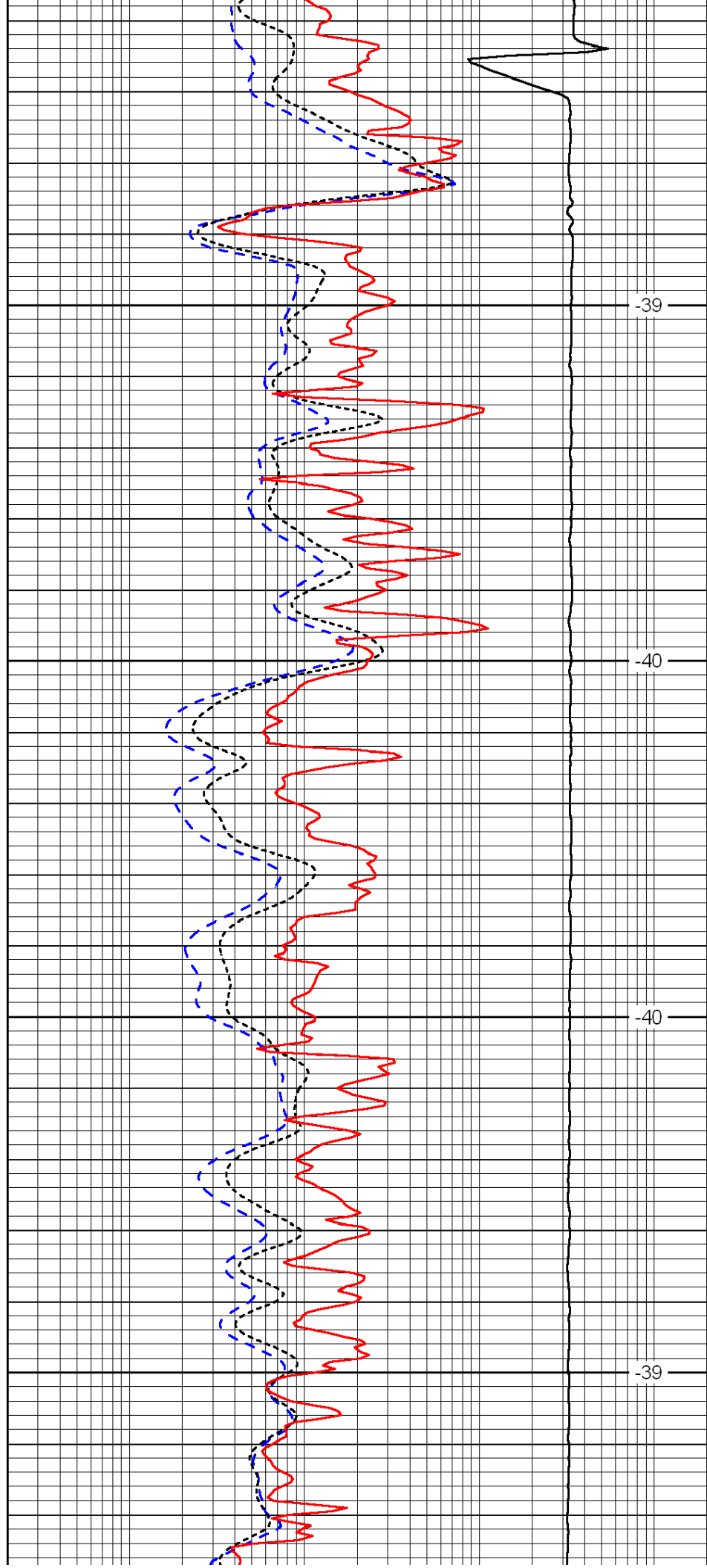


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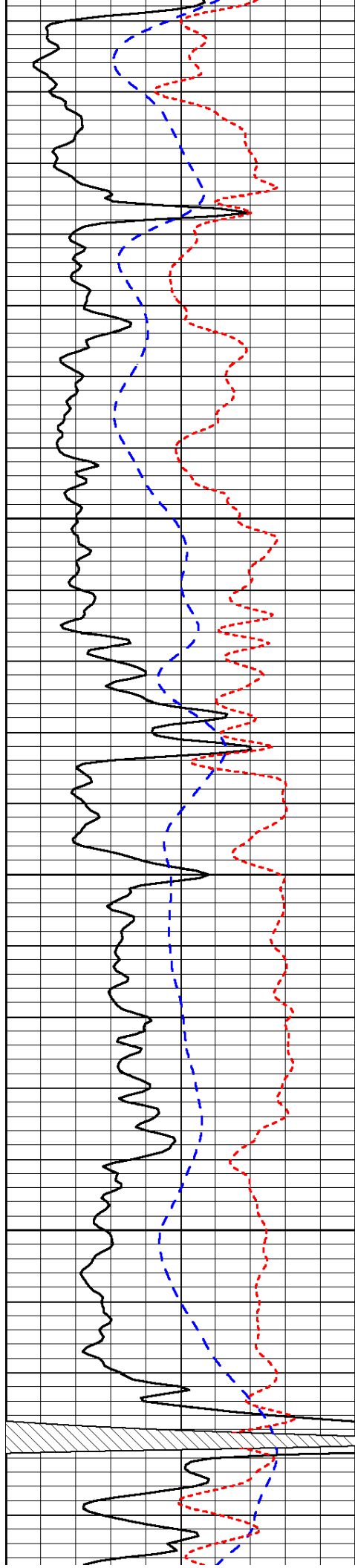


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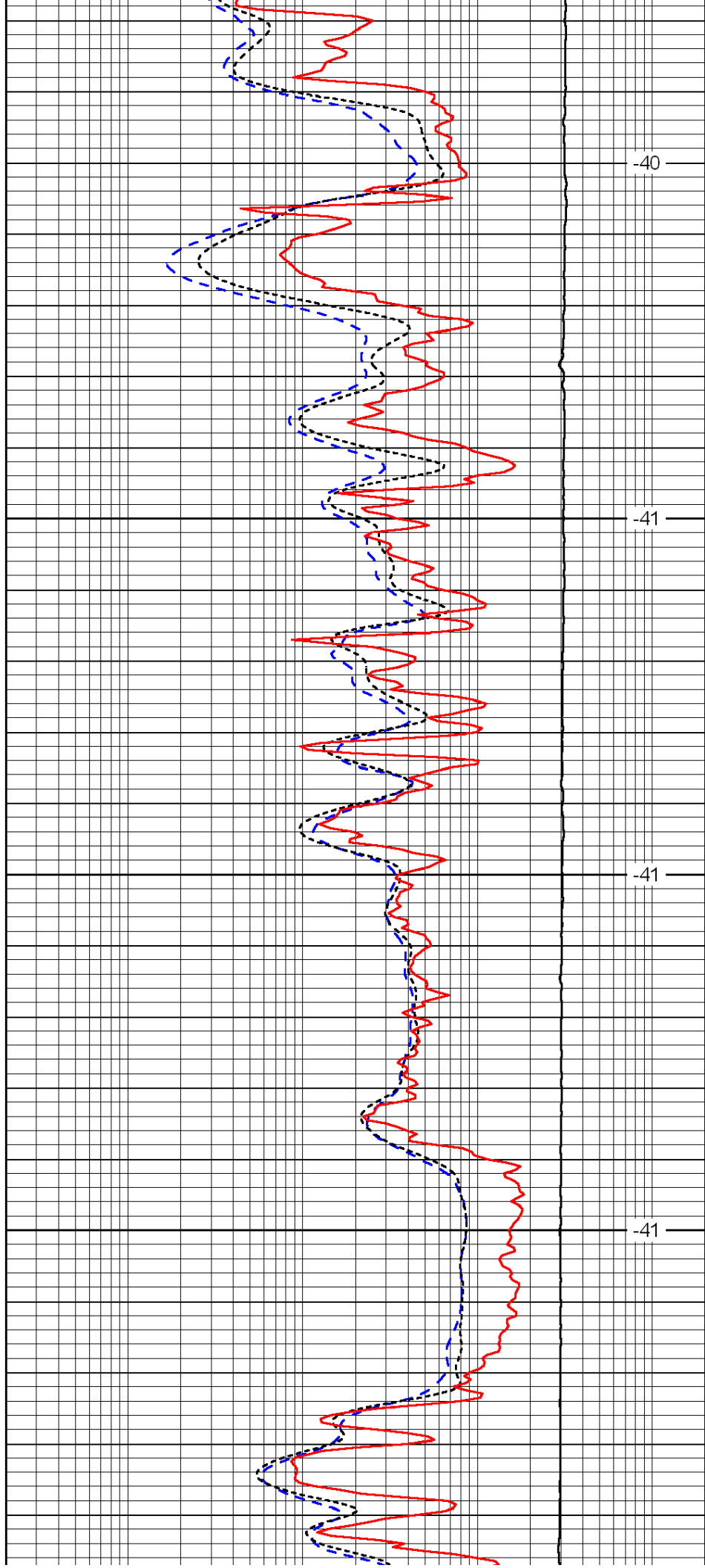


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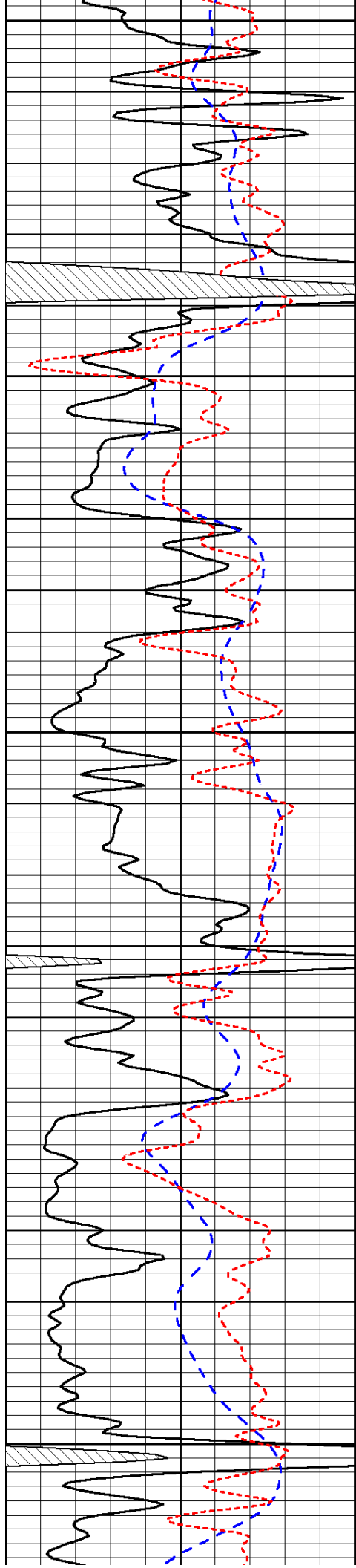


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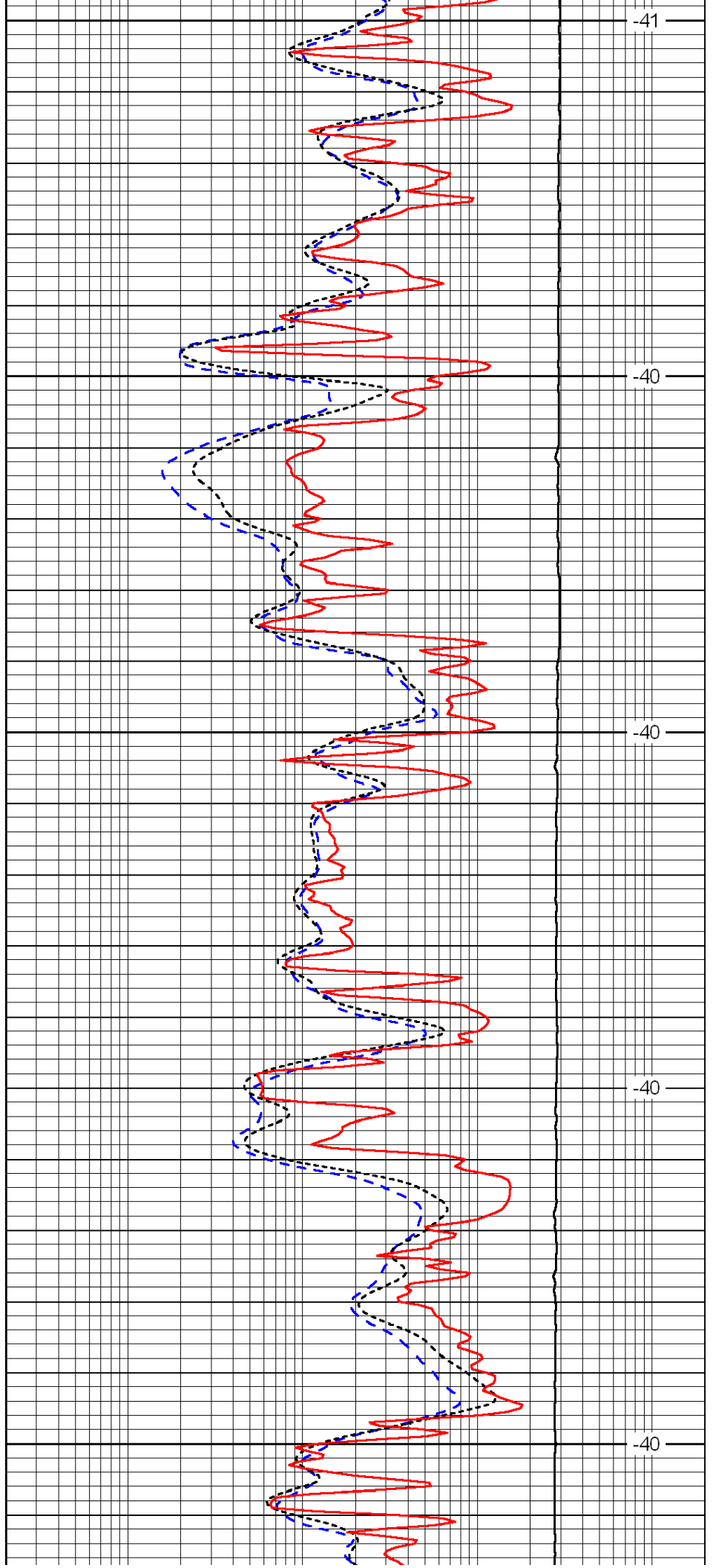
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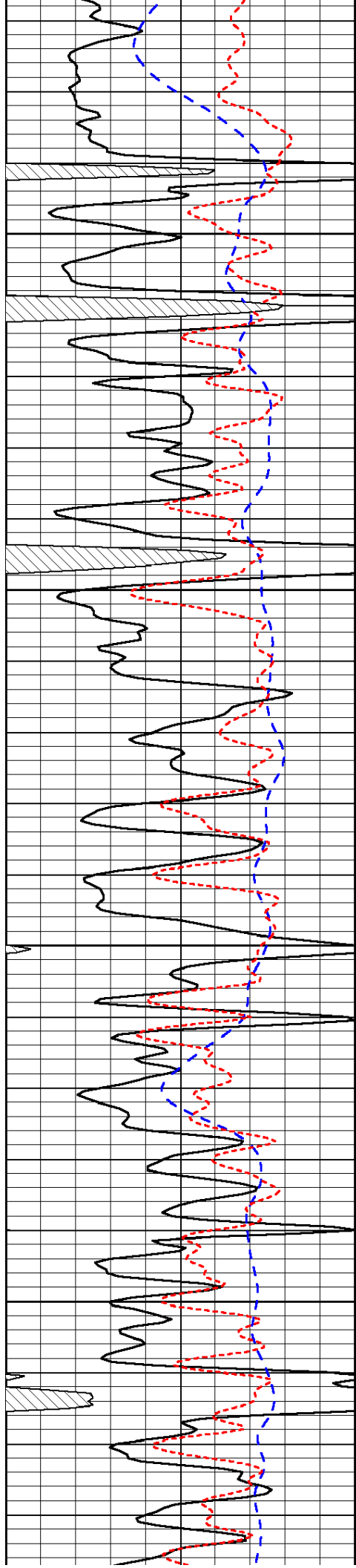
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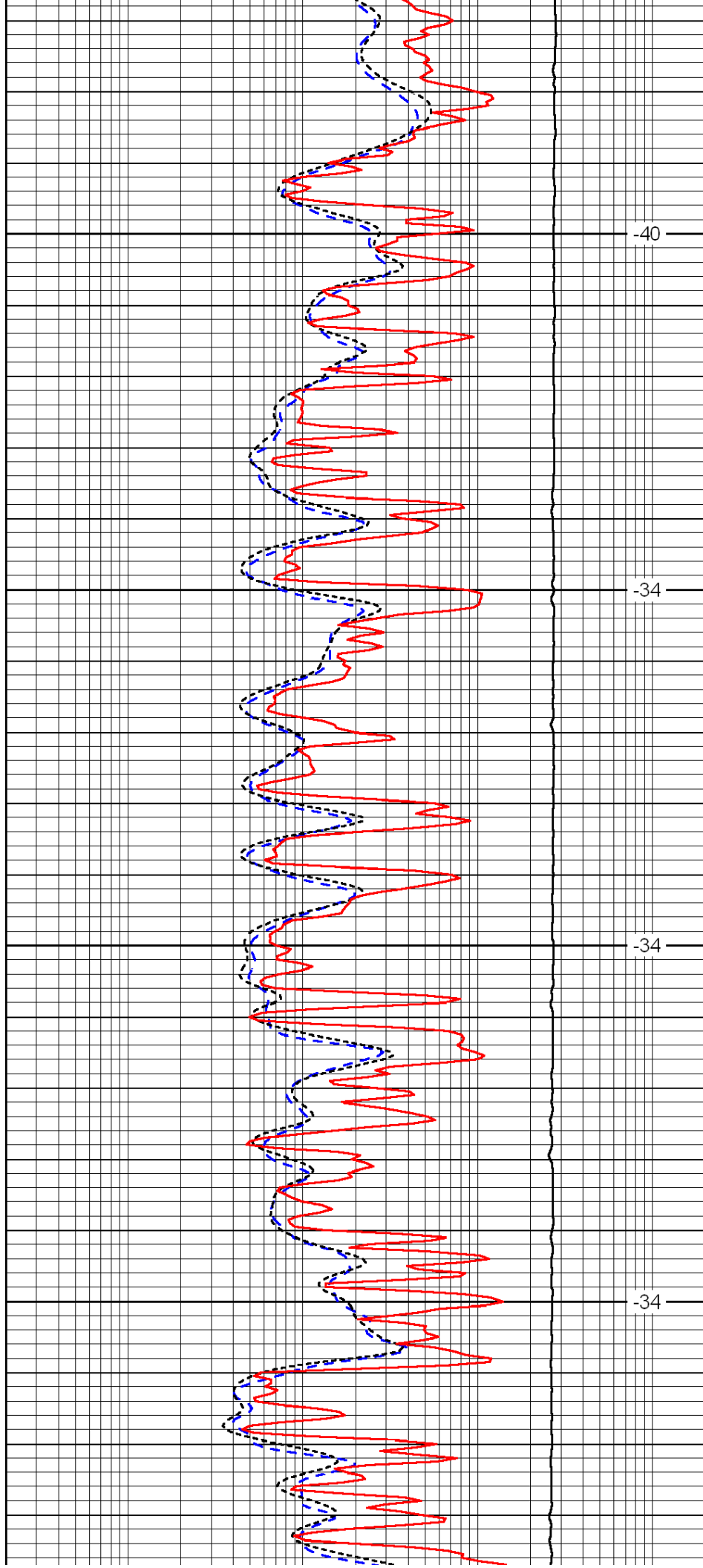


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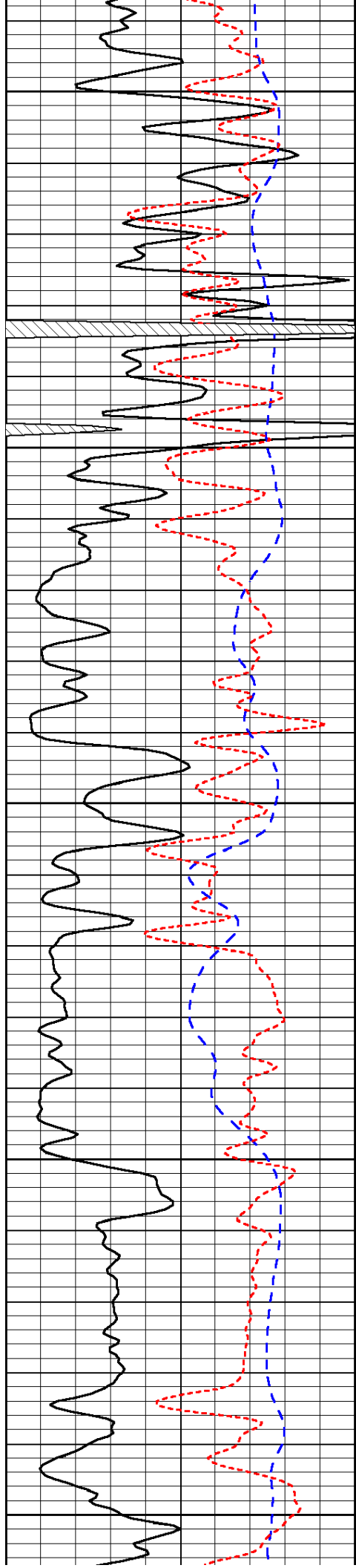


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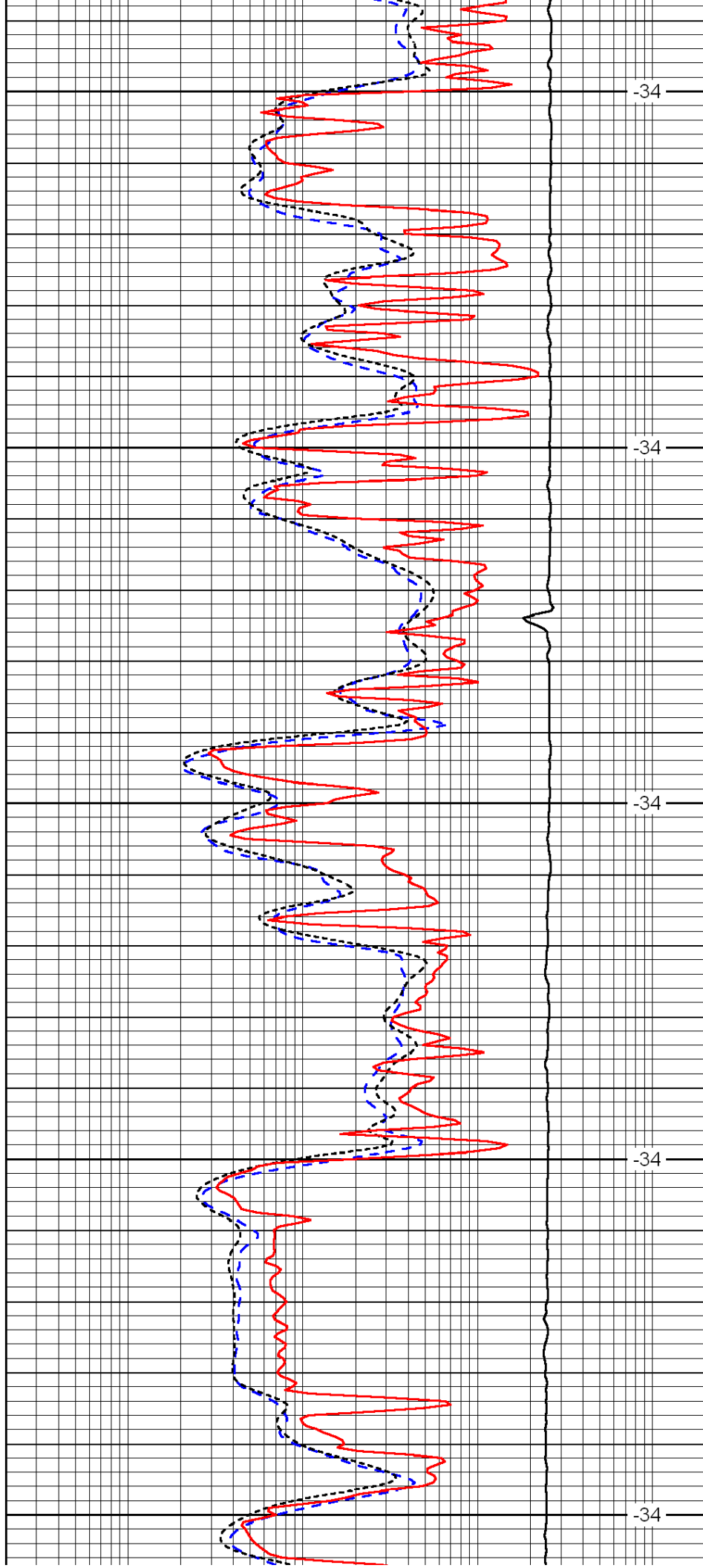
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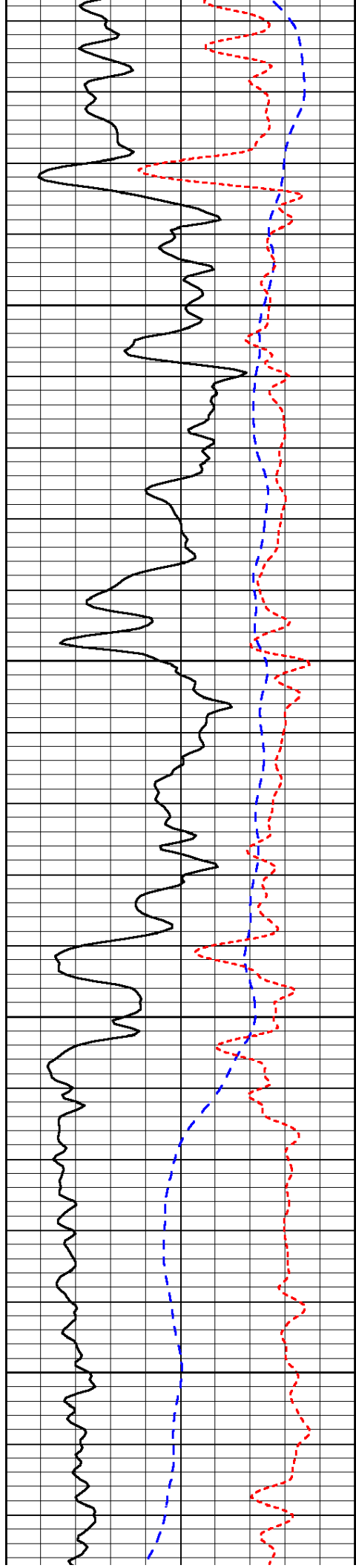
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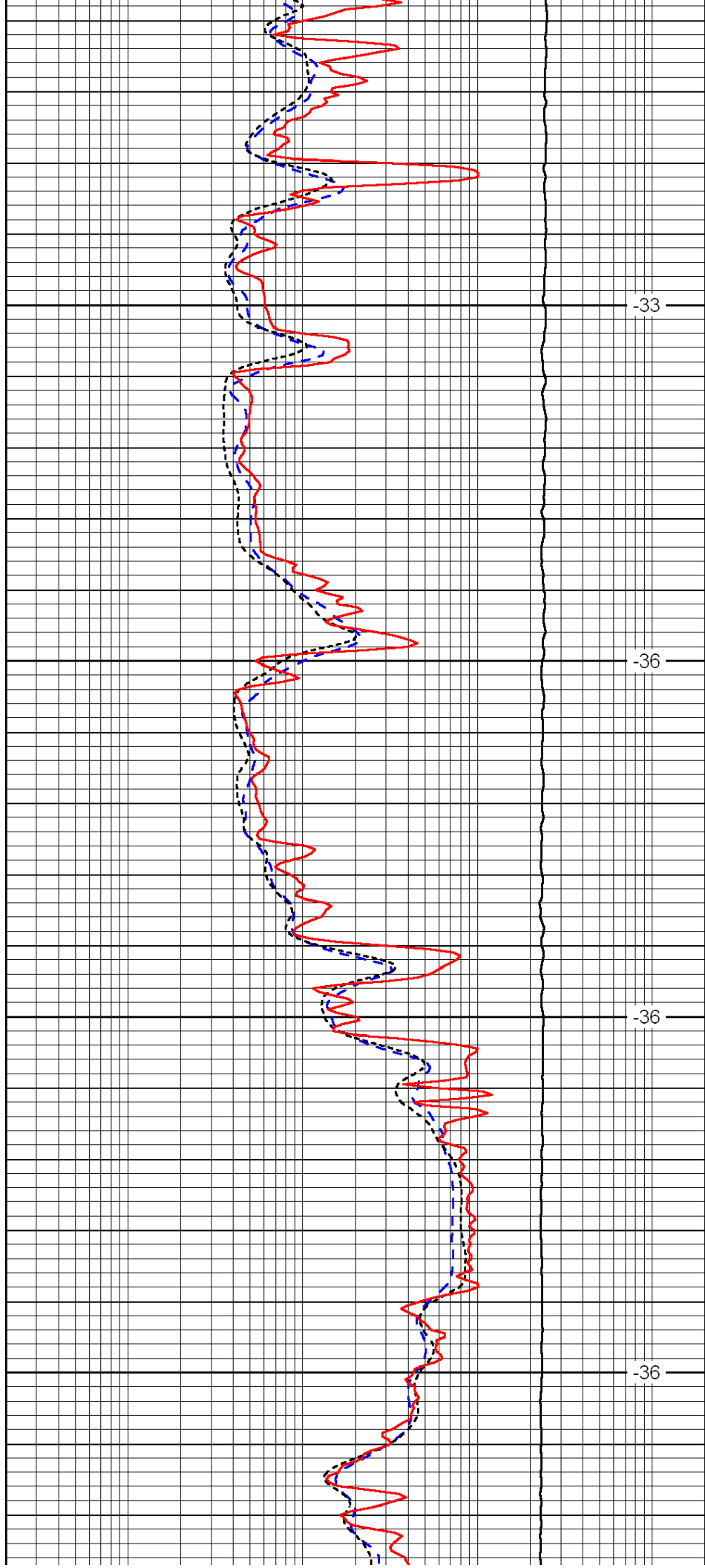


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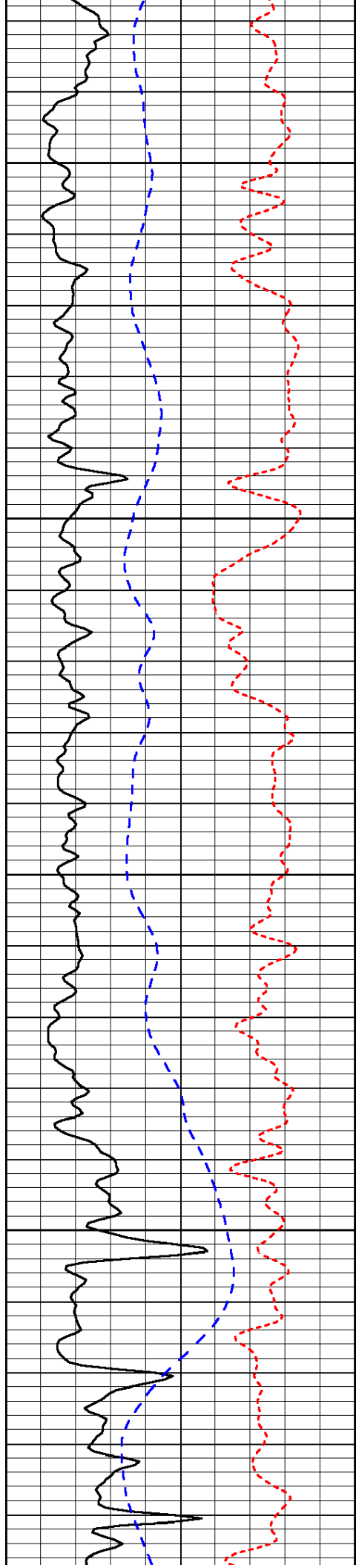


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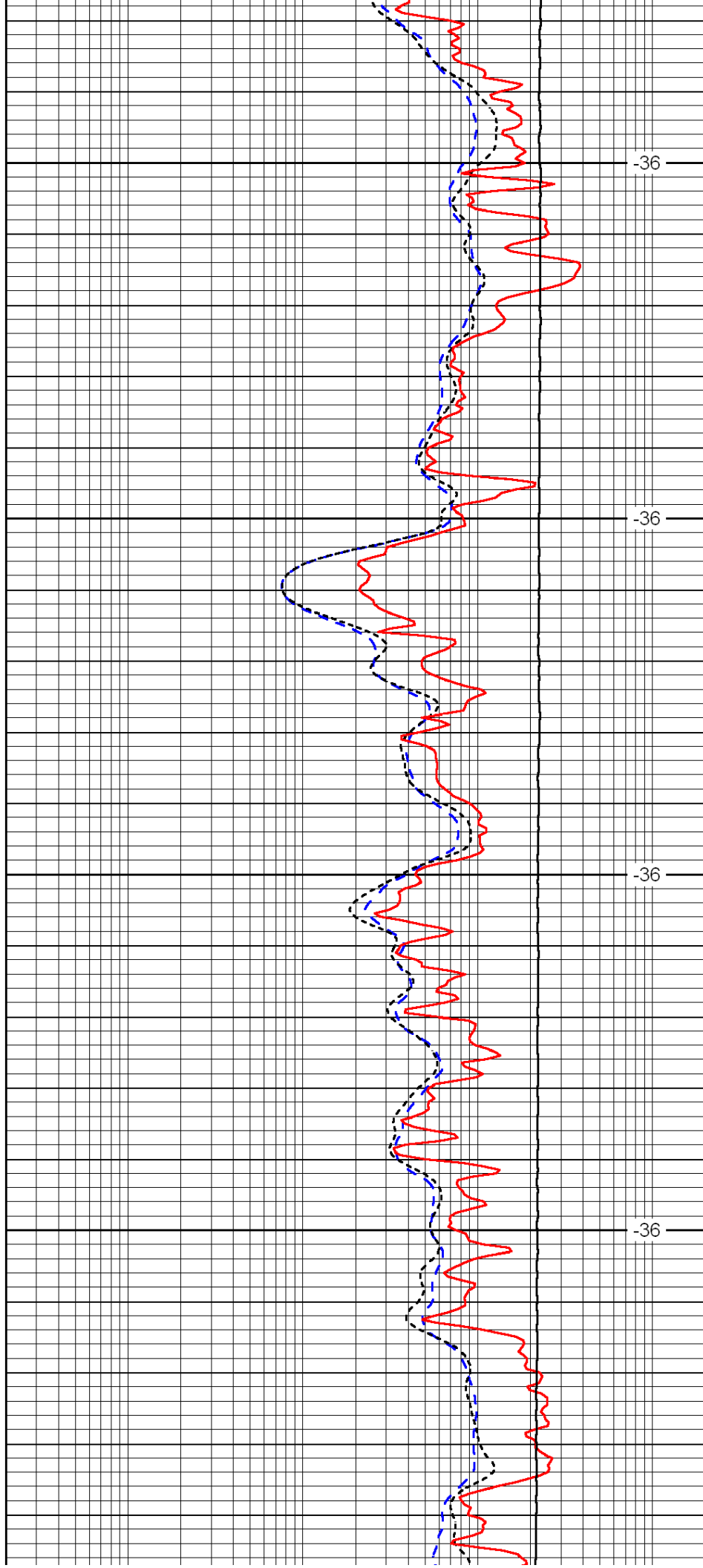


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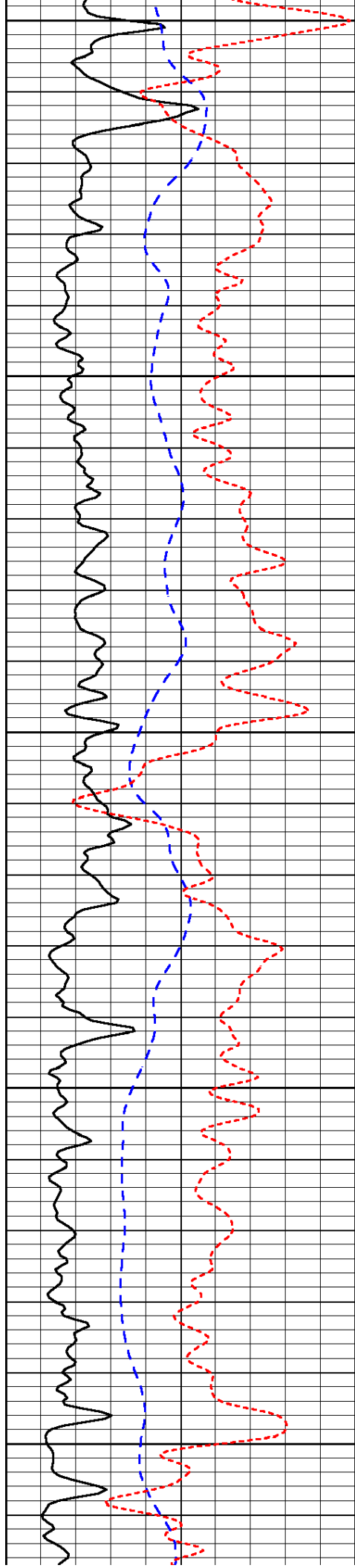


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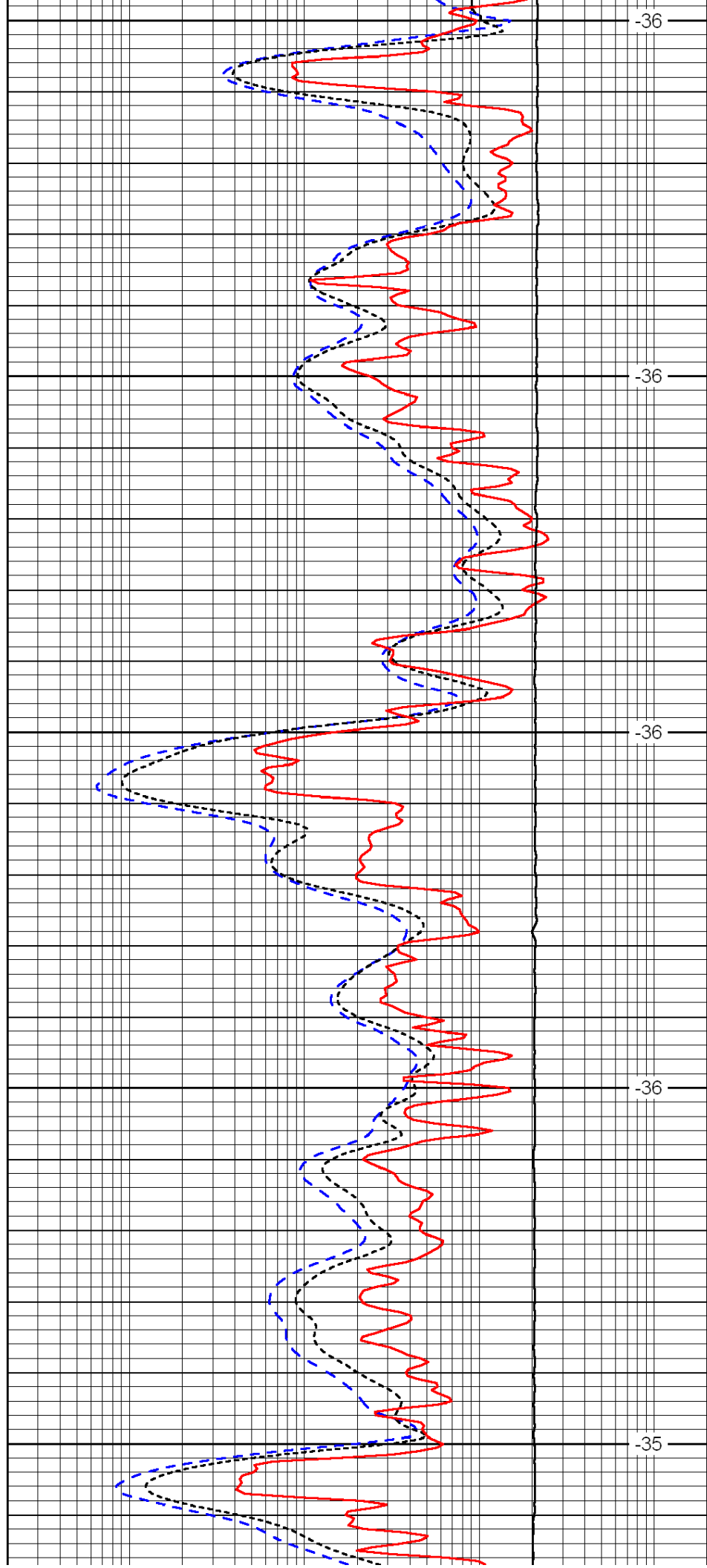
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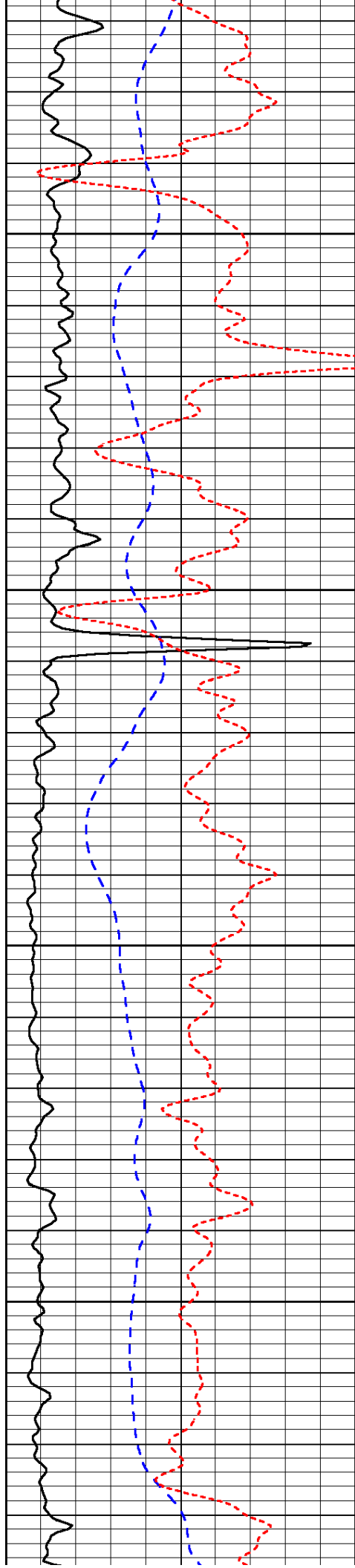
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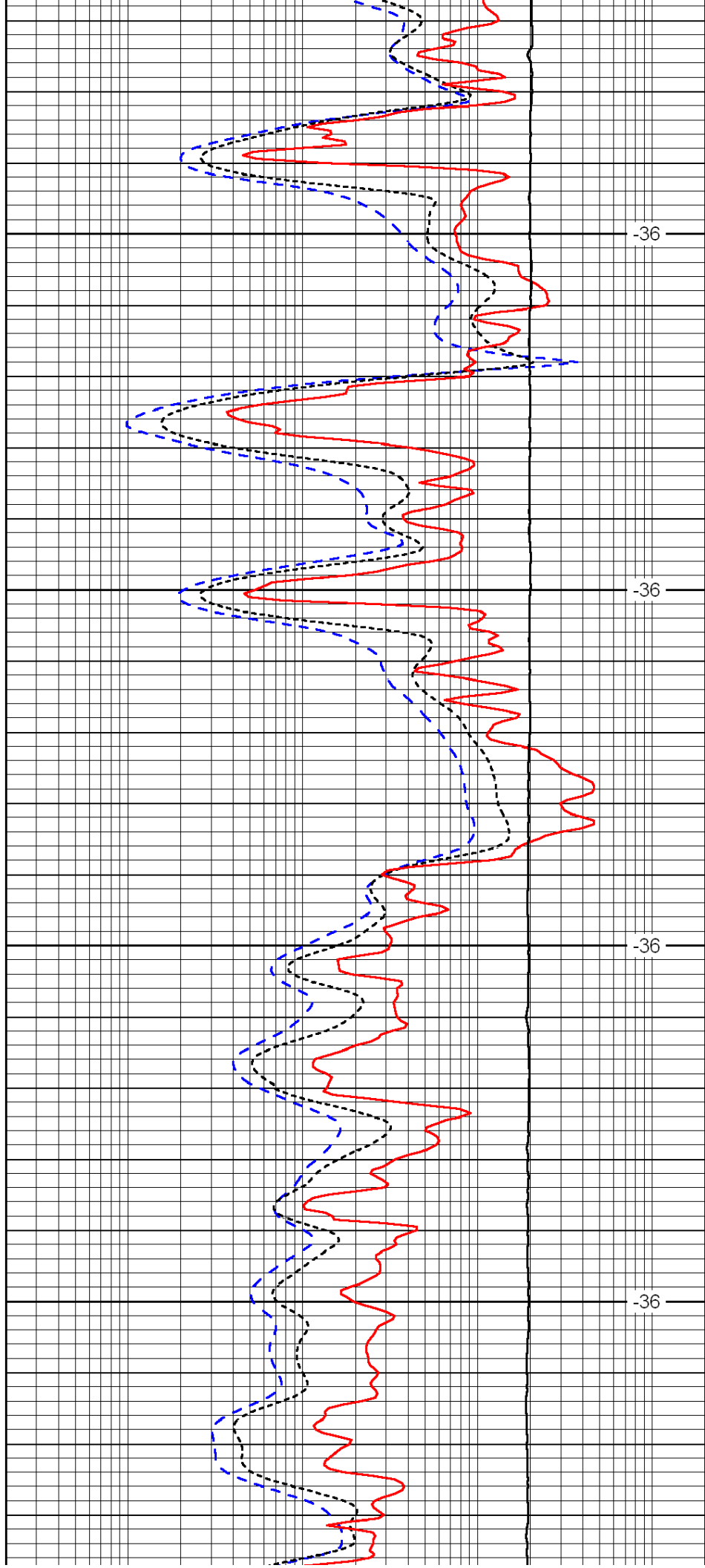


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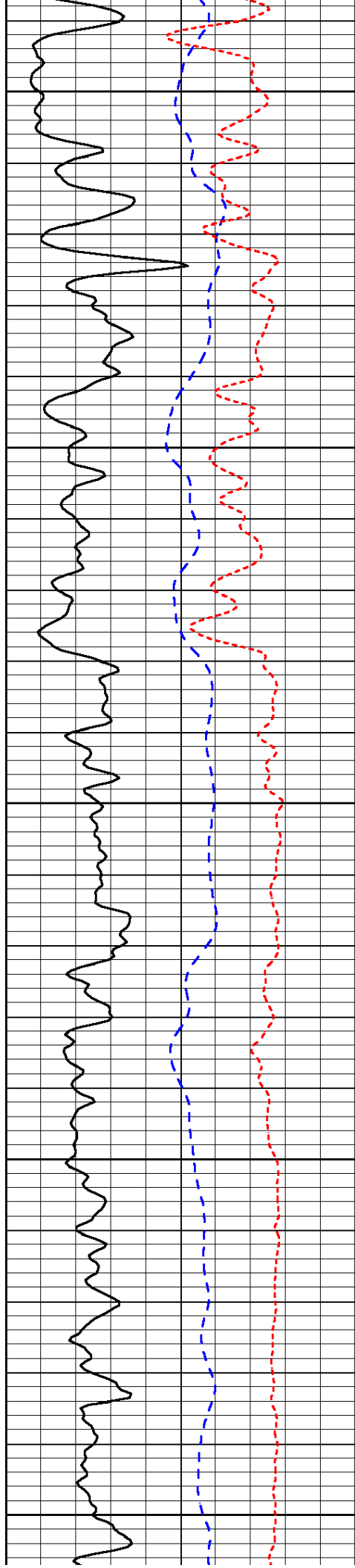


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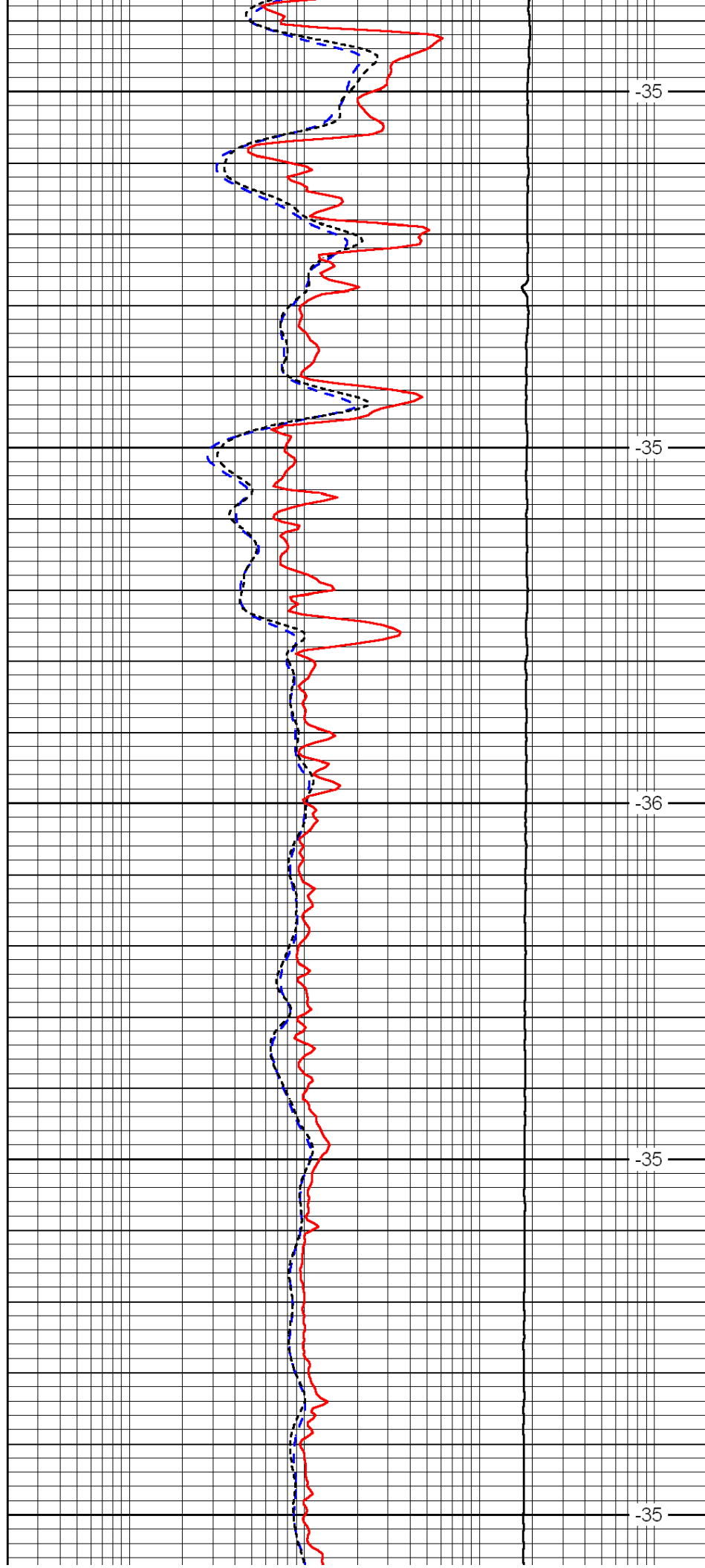
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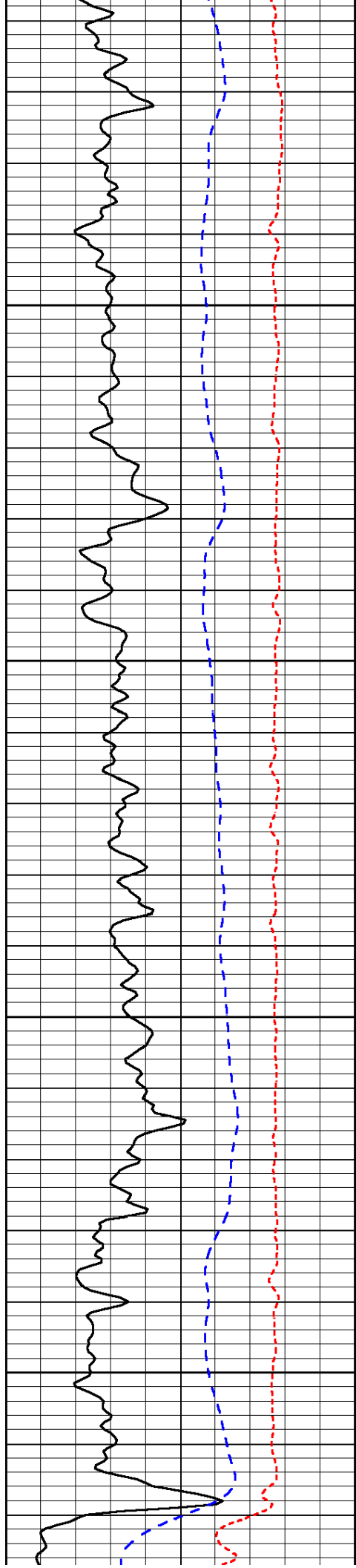
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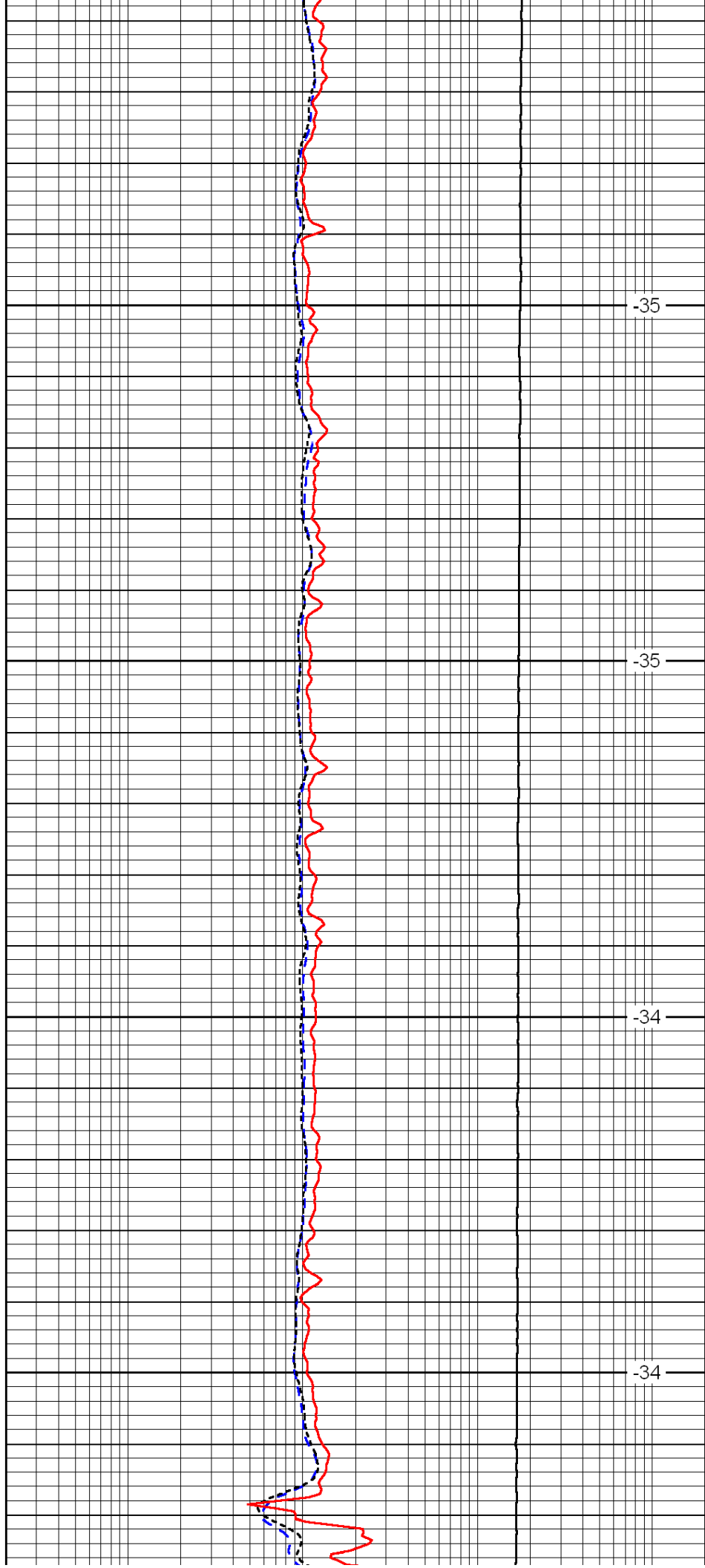


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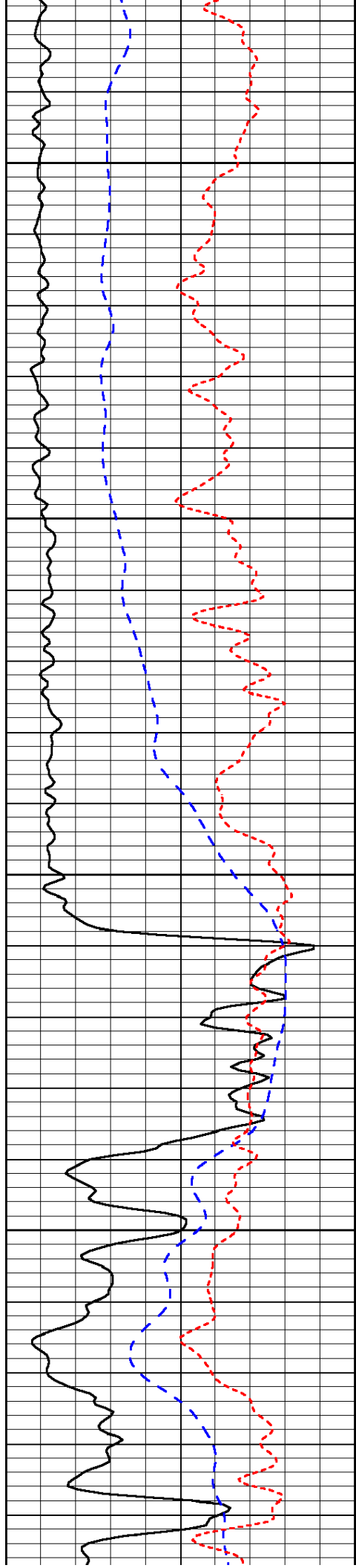


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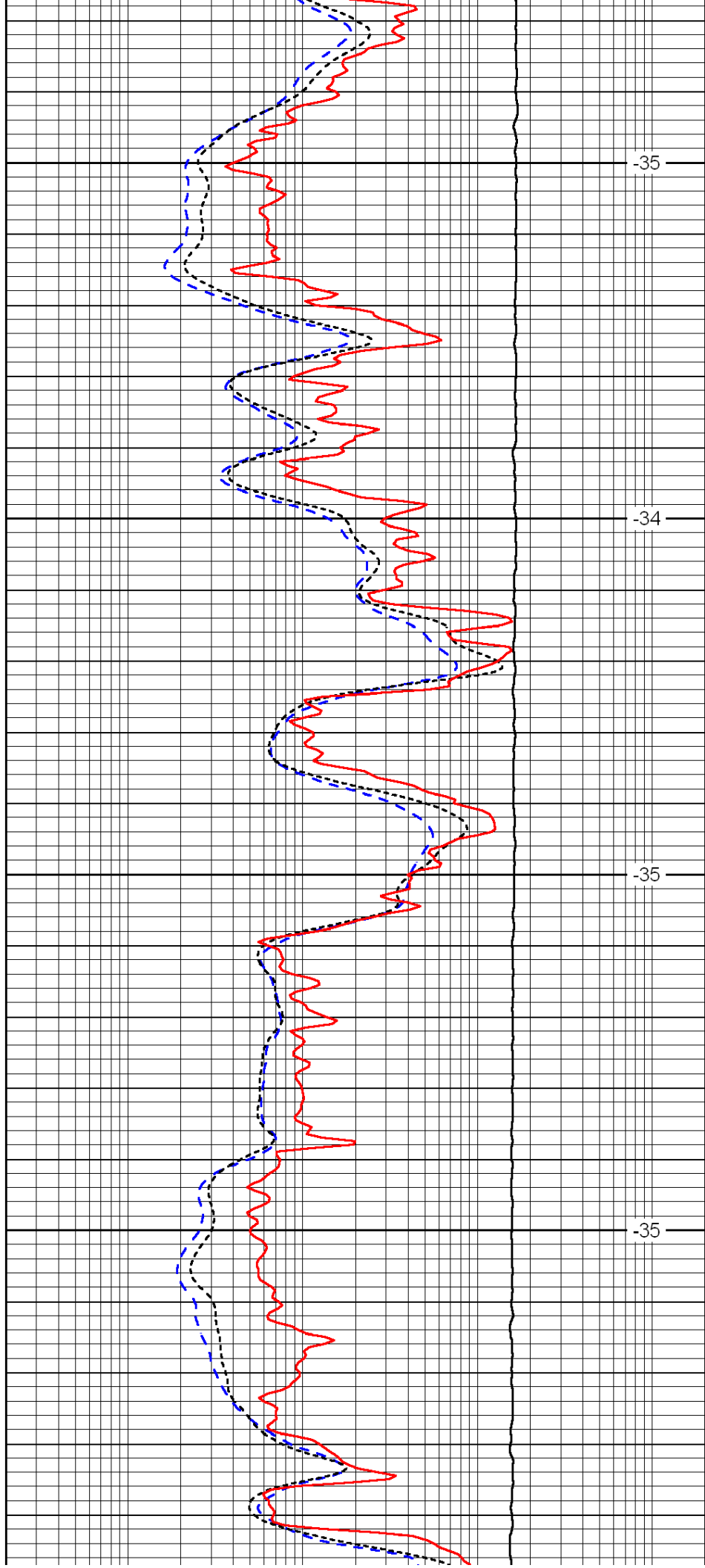


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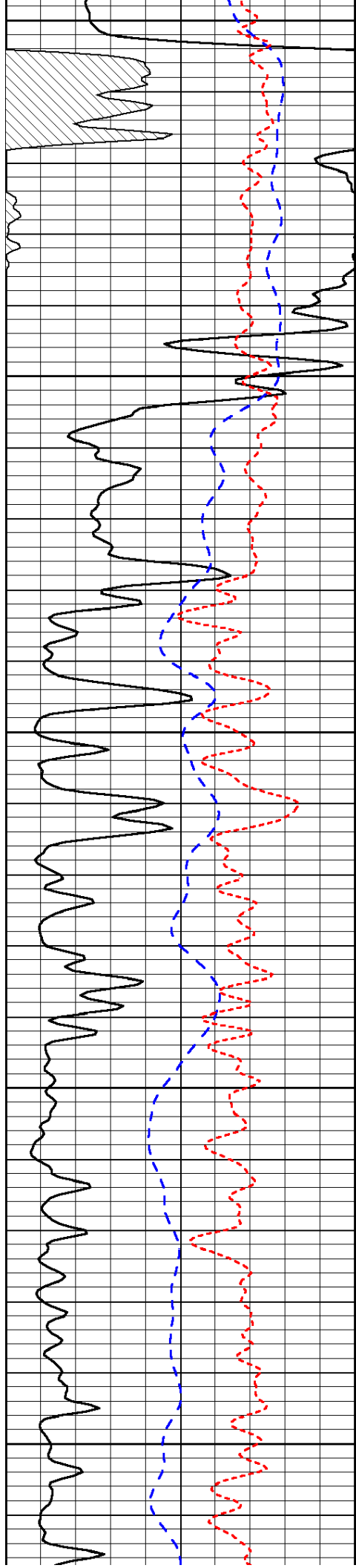


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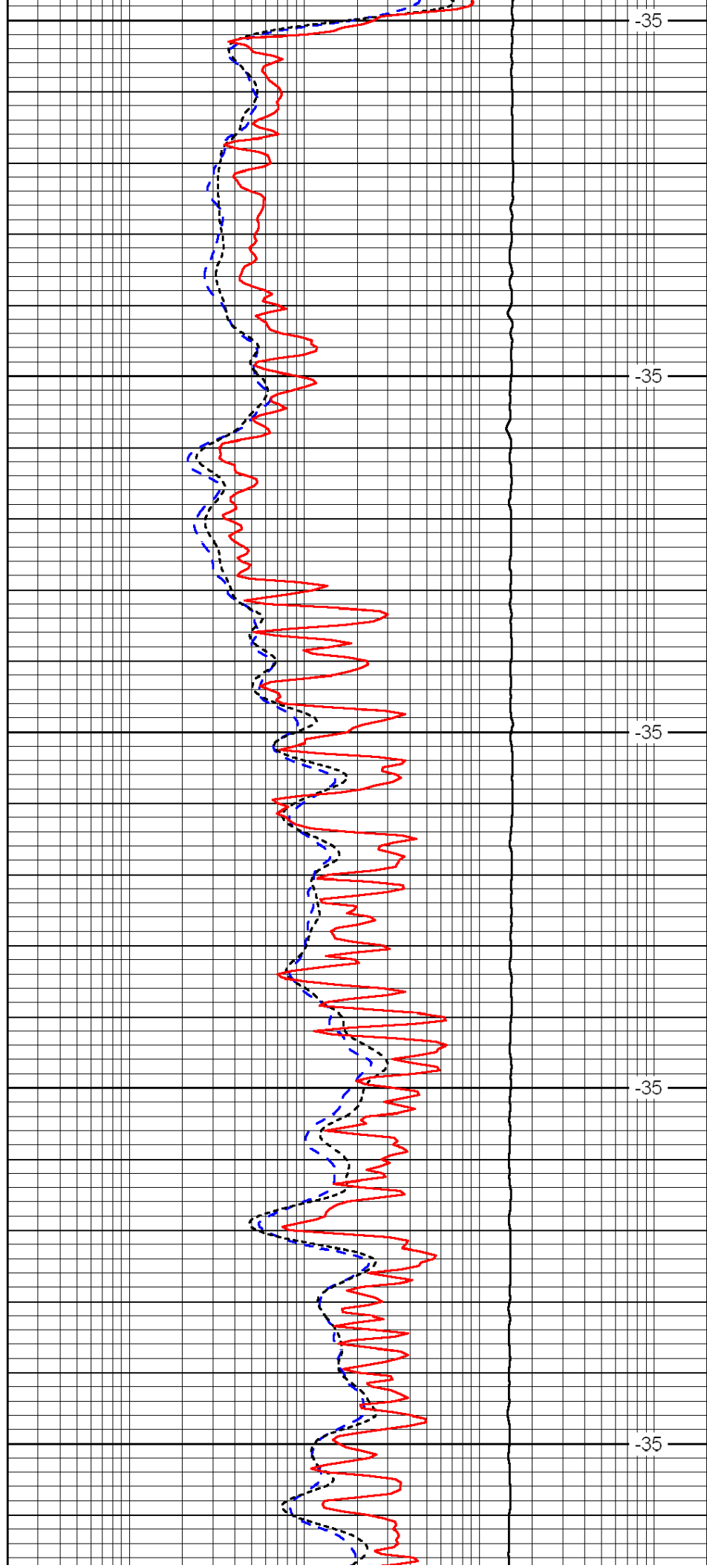
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7250

7300



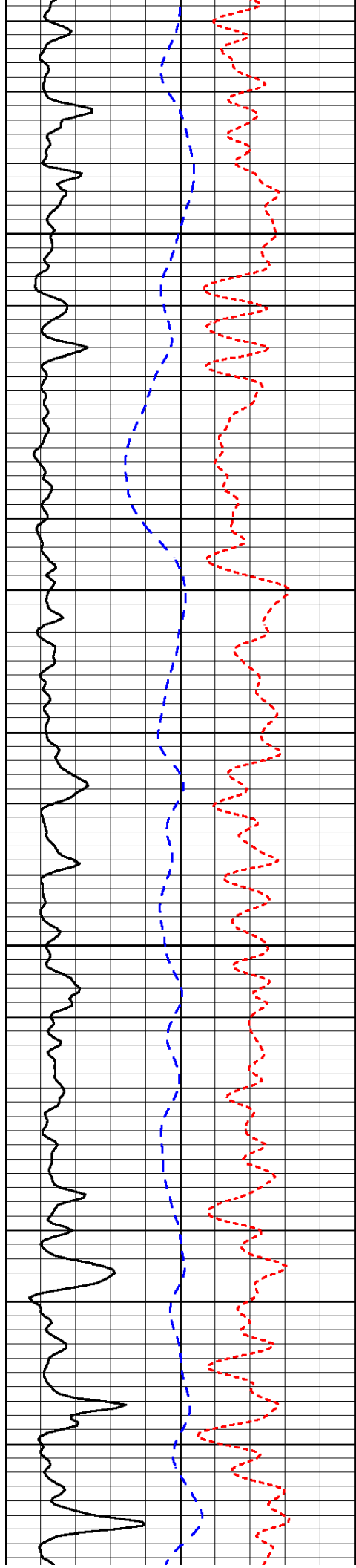
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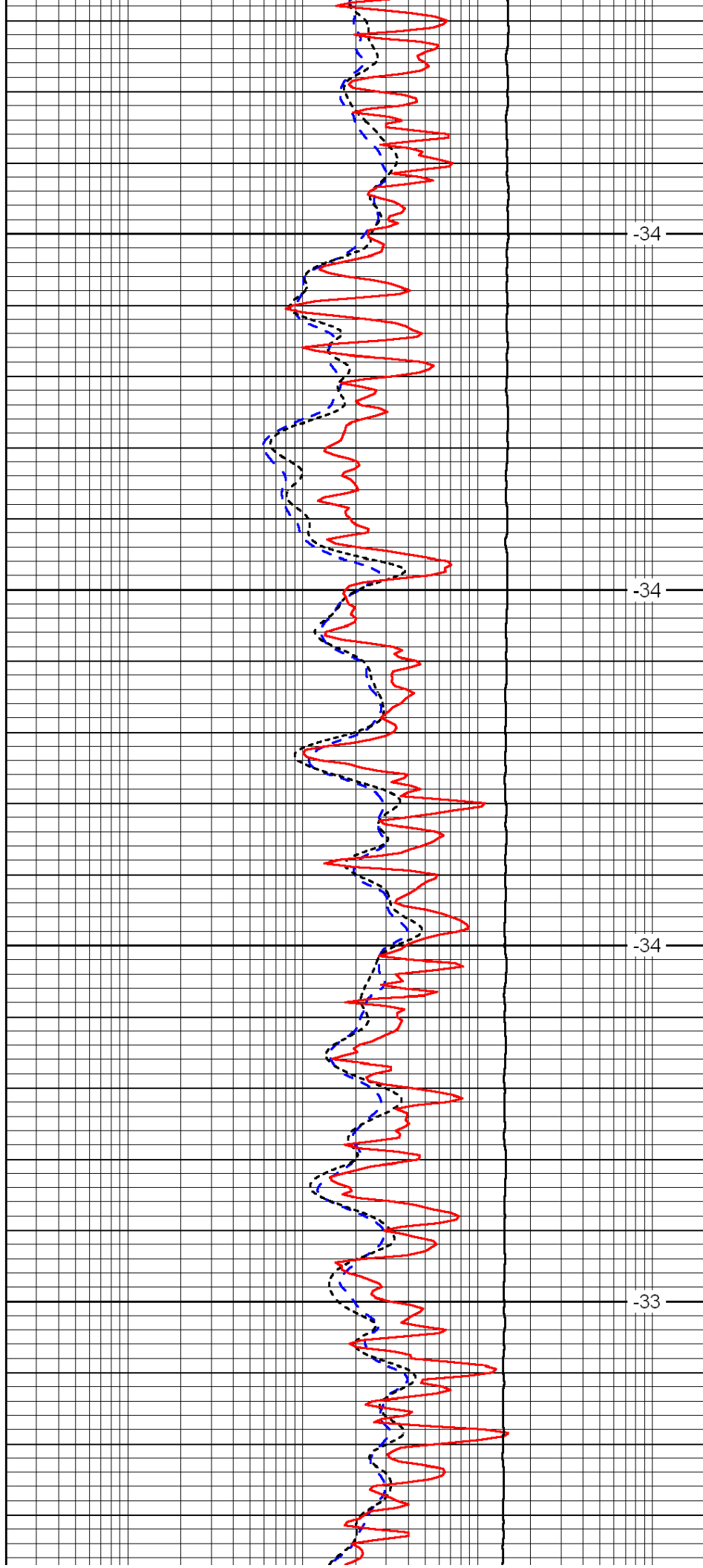


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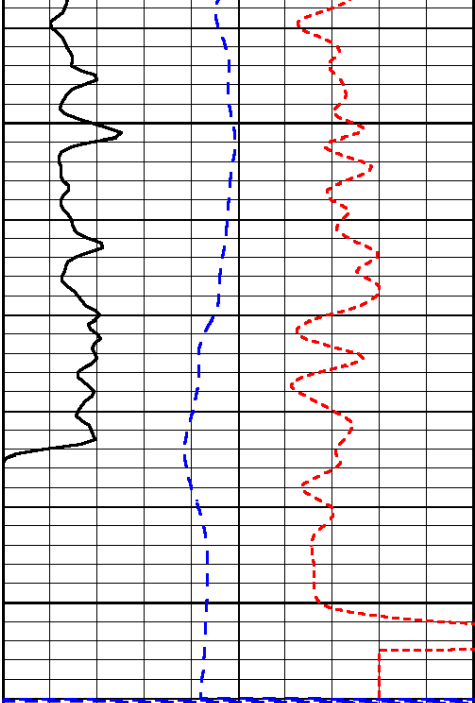


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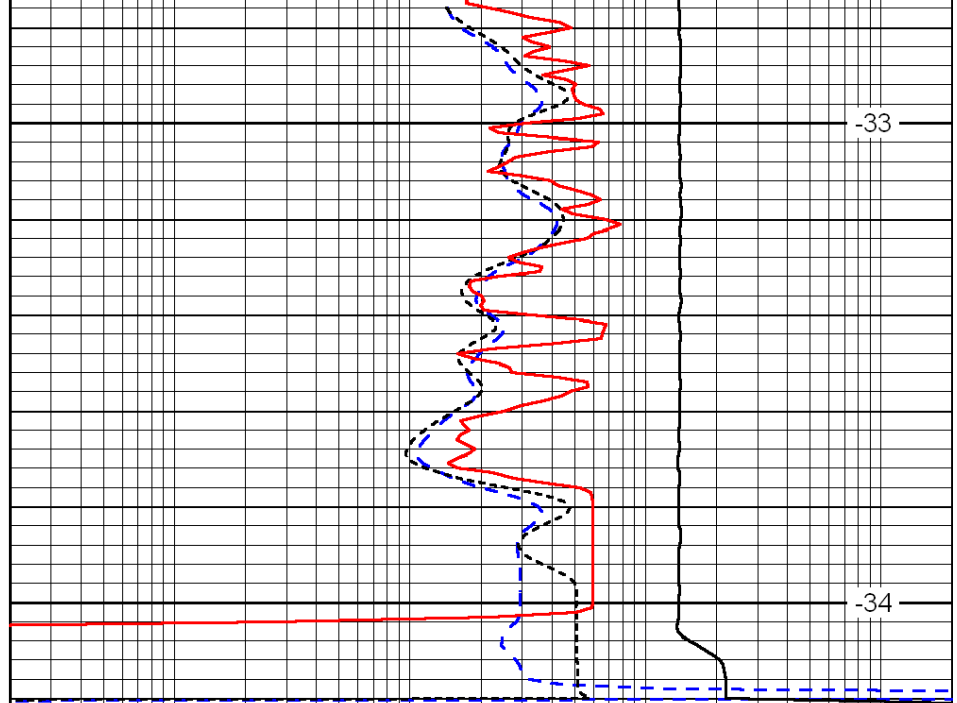
-33



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

7550

7600



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

LSPD