



# Dual Induction Log

DIGITAL LOG (785) 625-3858

|                                            |             |                                                  |  |
|--------------------------------------------|-------------|--------------------------------------------------|--|
| API No.                                    |             | Company R & B Oil & Gas, Inc.                    |  |
| 15-007-23757-00-00                         |             | Well Swartz "A" #2                               |  |
| Field Knorp                                |             | County Barber State Kansas                       |  |
| Location S/2 NE SW<br>990' FNL / 1980' FWL |             | Other Services<br>CNL / CDL                      |  |
| Sec: 22 Twp: 34S Rge: 10W                  |             | Elevation<br>K.B. 1363<br>D.F. 1353<br>G.L. 1353 |  |
| Permanent Datum Ground Level               |             | Elevation 1353                                   |  |
| Log Measured From Kelly Bushing            |             | 10 Ft. Above Perm. Datum                         |  |
| Drilling Measured From Kelly Bushing       |             |                                                  |  |
| Date                                       | 9/14/2011   |                                                  |  |
| Run Number                                 | One         |                                                  |  |
| Depth Driller                              | 5211        |                                                  |  |
| Depth Logger                               | 5213        |                                                  |  |
| Bottom Logged Interval                     | 5212        |                                                  |  |
| Top Log Interval                           | 250         |                                                  |  |
| Casing Driller                             | 8.625 @ 271 |                                                  |  |
| Casing Logger                              | 268         |                                                  |  |
| Bit Size                                   | 7.875       |                                                  |  |
| Type Fluid in Hole                         | Chemical    |                                                  |  |
| Salinity, ppm CL                           | 7000        |                                                  |  |
| Density / Viscosity                        | 9.4 51      |                                                  |  |
| pH / Fluid Loss                            | 10.0 10.4   |                                                  |  |
| Source of Sample                           | Flowline    |                                                  |  |
| Rm @ Meas. Temp                            | 0.80 @ 85   |                                                  |  |
| Rmf @ Meas. Temp                           | 0.60 @ 85   |                                                  |  |
| Rmc @ Meas. Temp                           | 1.08 @ 85   |                                                  |  |
| Source of Rmf / Rmc                        | Charts      |                                                  |  |
| Rm @ BHT                                   | 0.53 @ 128  |                                                  |  |
| Operating Rig Time                         | 3 Hours     |                                                  |  |
| Max Rec. Temp. F                           | 128         |                                                  |  |
| Equipment Number                           | 15          |                                                  |  |
| Location                                   | Hays        |                                                  |  |
| Recorded By                                | R. Barnhart |                                                  |  |
| Witnessed By                               | Tim Pierce  |                                                  |  |

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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.

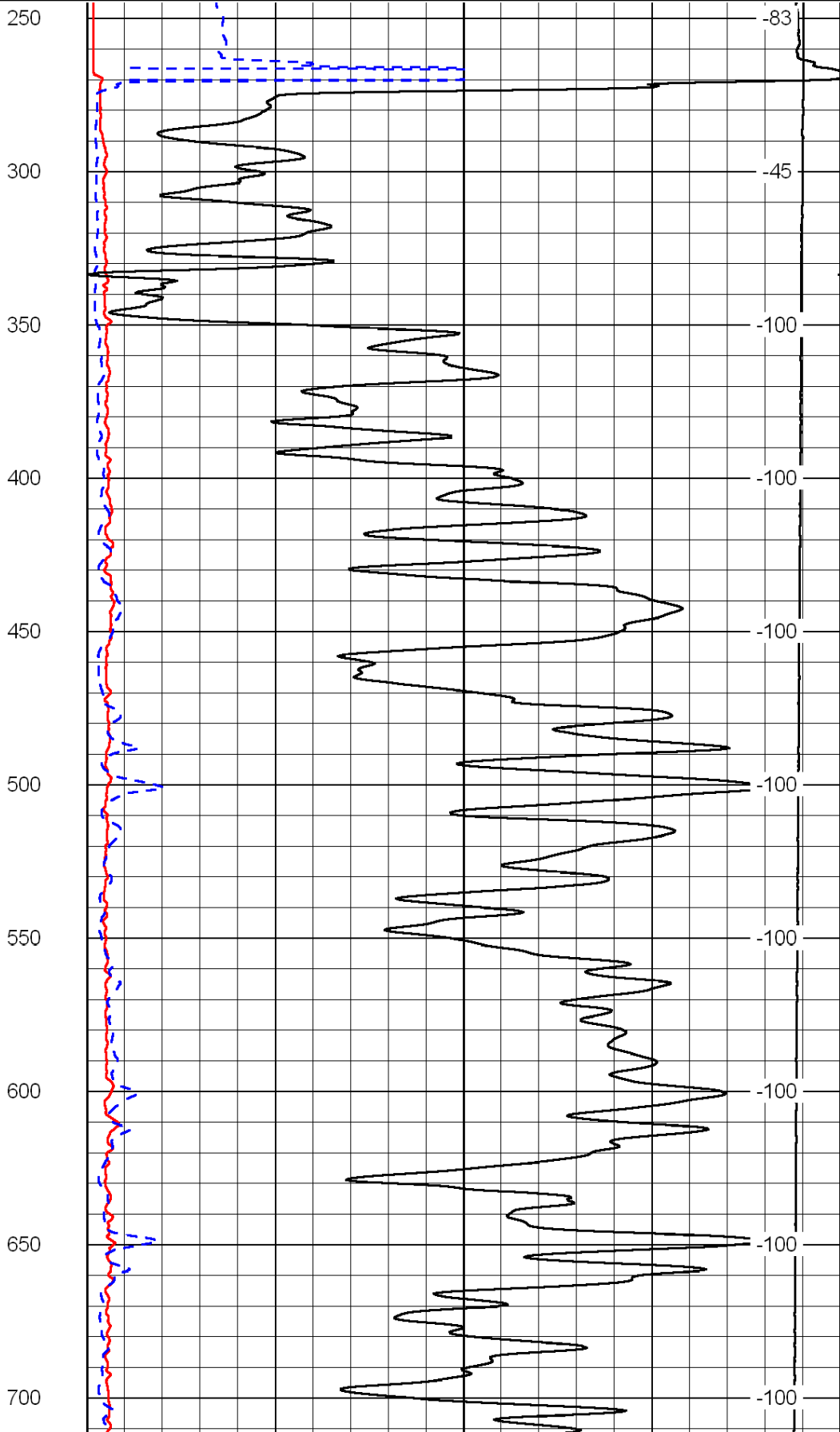
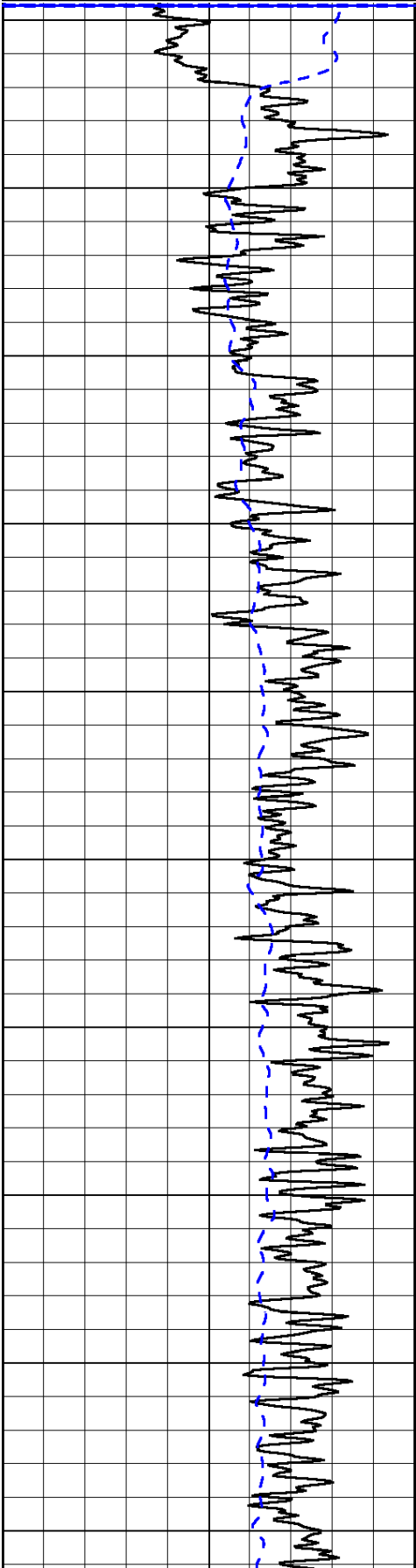
## Comments

Thank you for using Log-Tech, Inc.  
(785) 625-3858  
  
Hazelton, KS:  
1S, 1/2E, S into

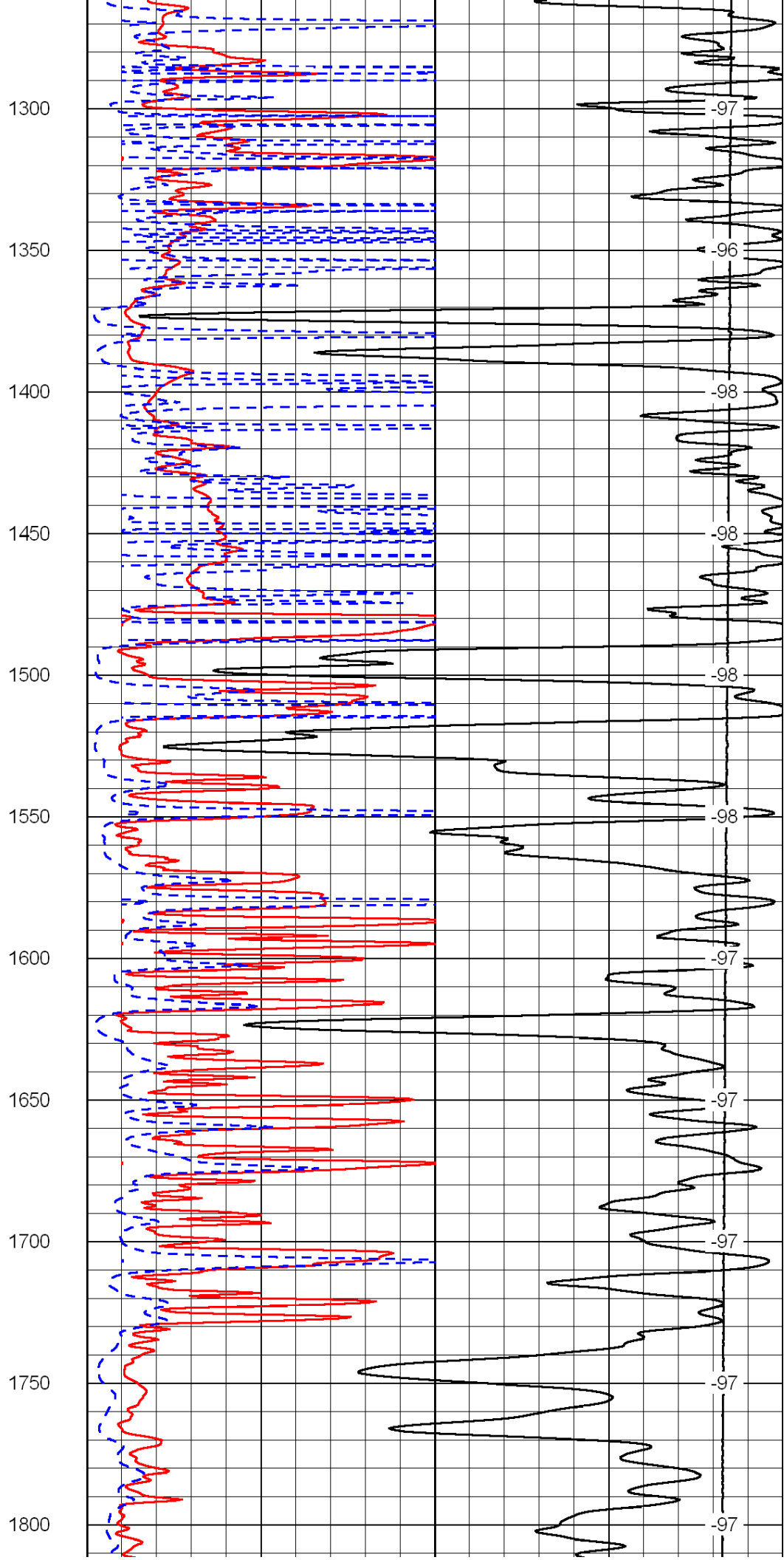
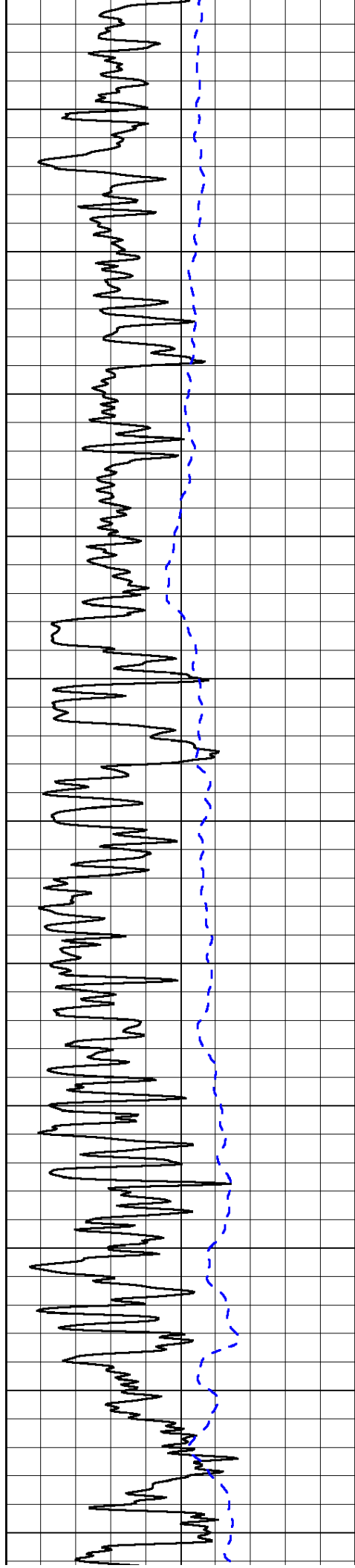
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|------|-----------|-----|
| 0    | Gamma Ray | 150 |
| -200 | SP (mV)   | 0   |

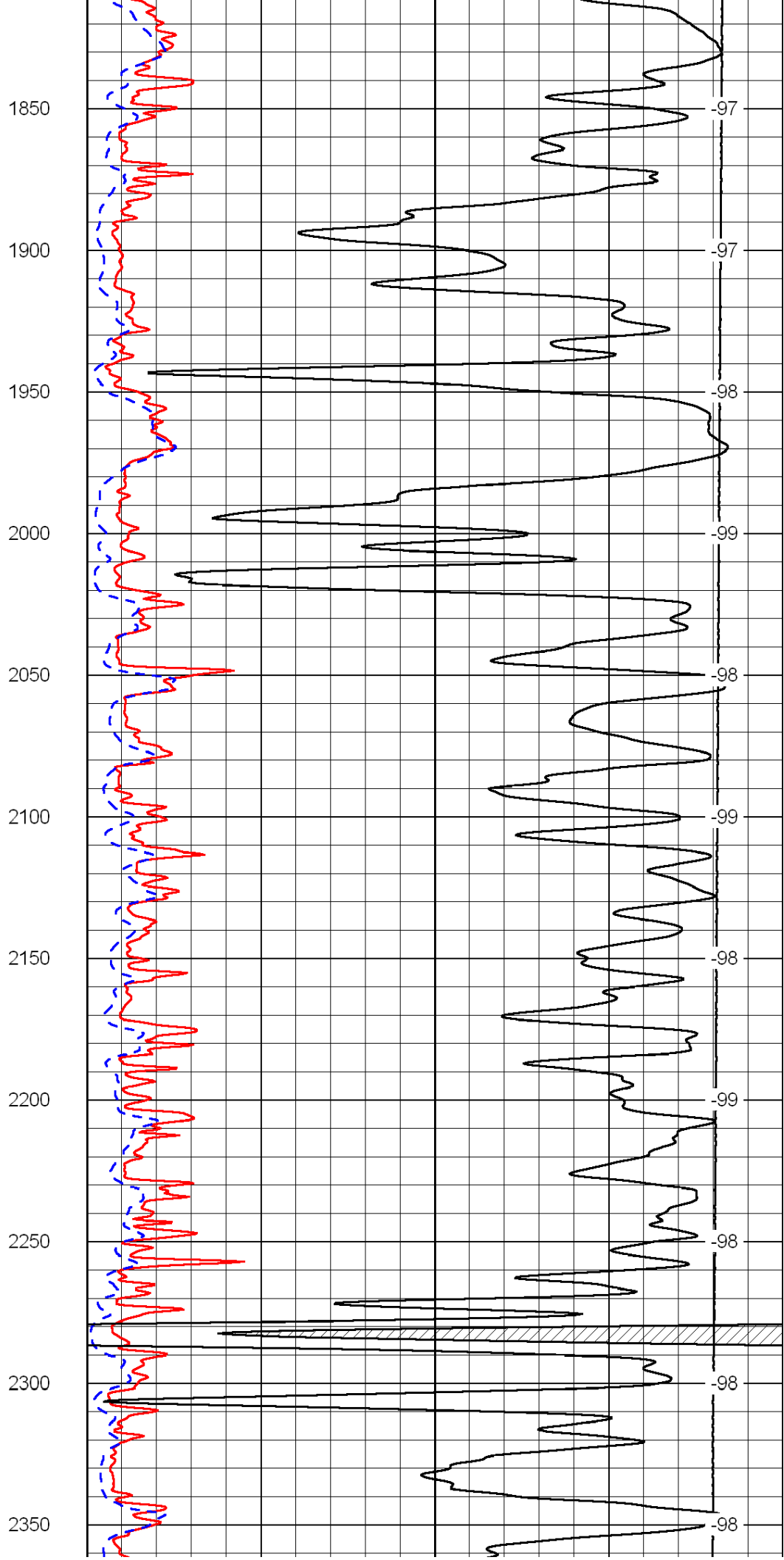
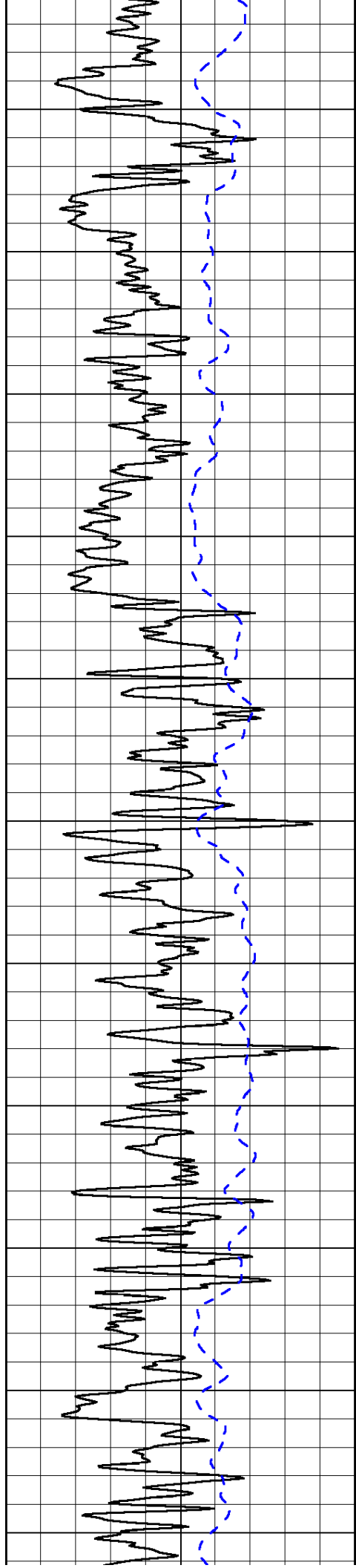
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|-------|---------------------|-----|
| 0     | Shallow Resistivity | 50  |
| 0     | Deep Resistivity    | 50  |
| 1000  | Conductivity        | 0   |
| 15000 | Line Tension        | 0   |
| 50    | Shallow Resistivity | 500 |
| 50    | Deep Resistivity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

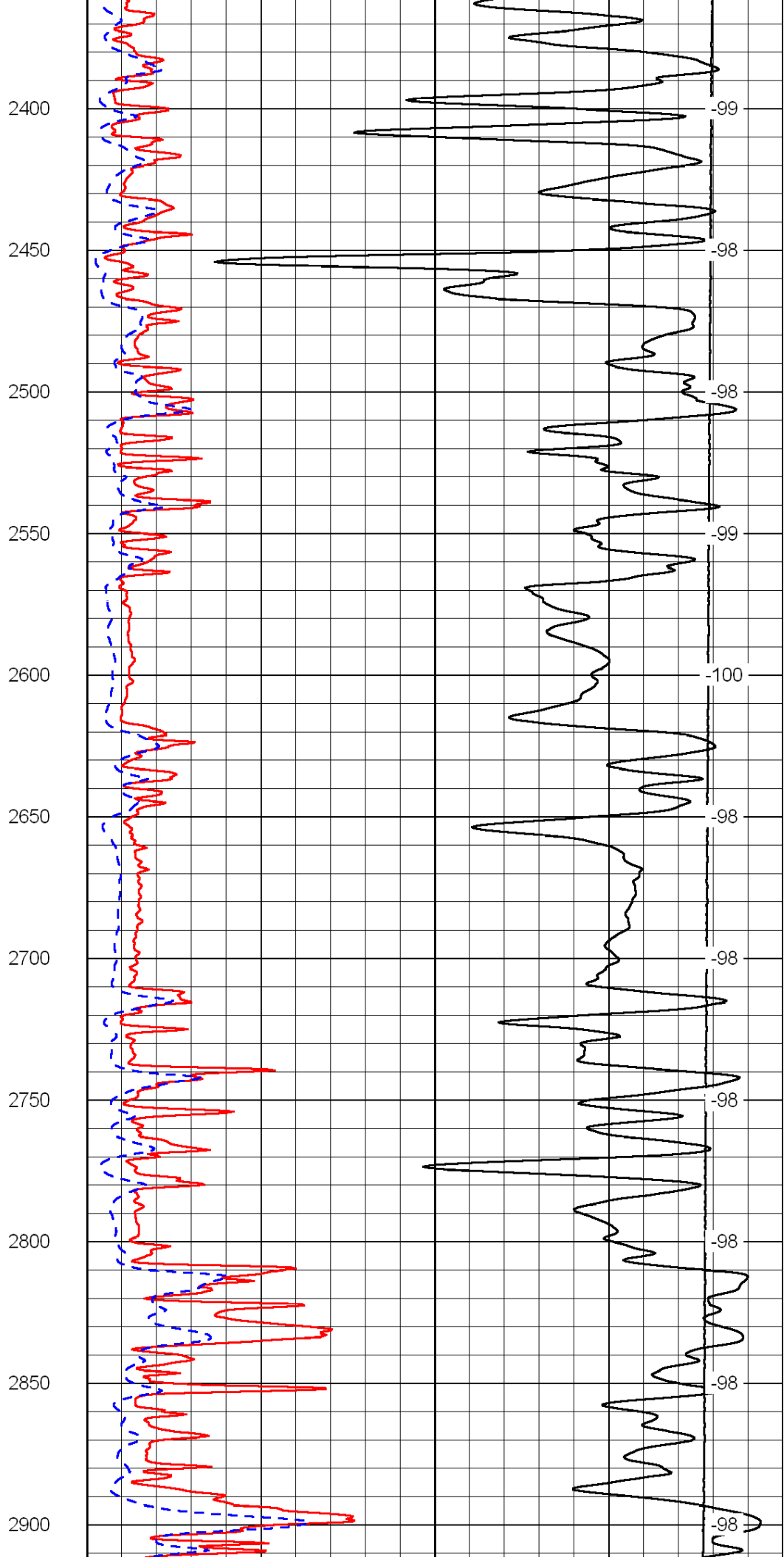
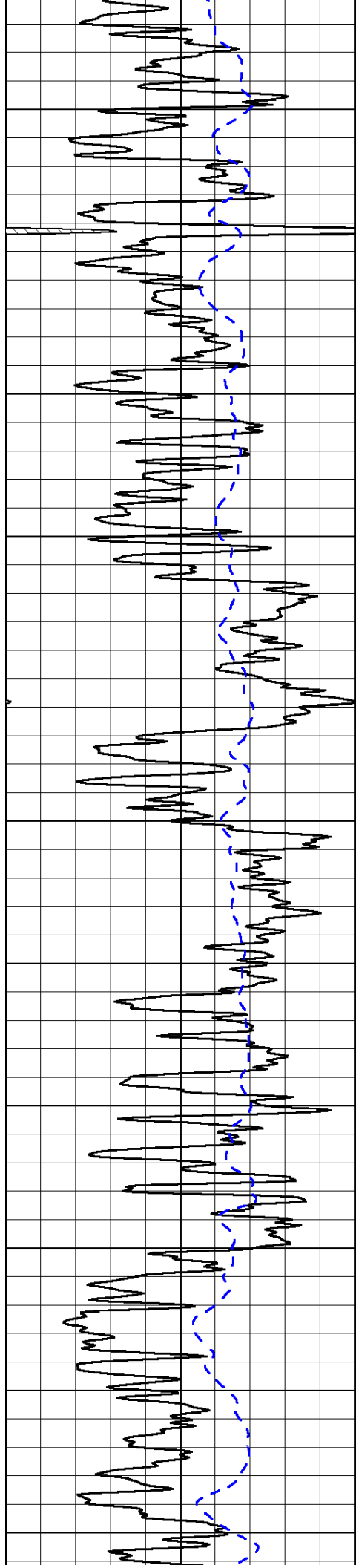
|      |
|------|
| LSPD |
| 0    |
| 0    |

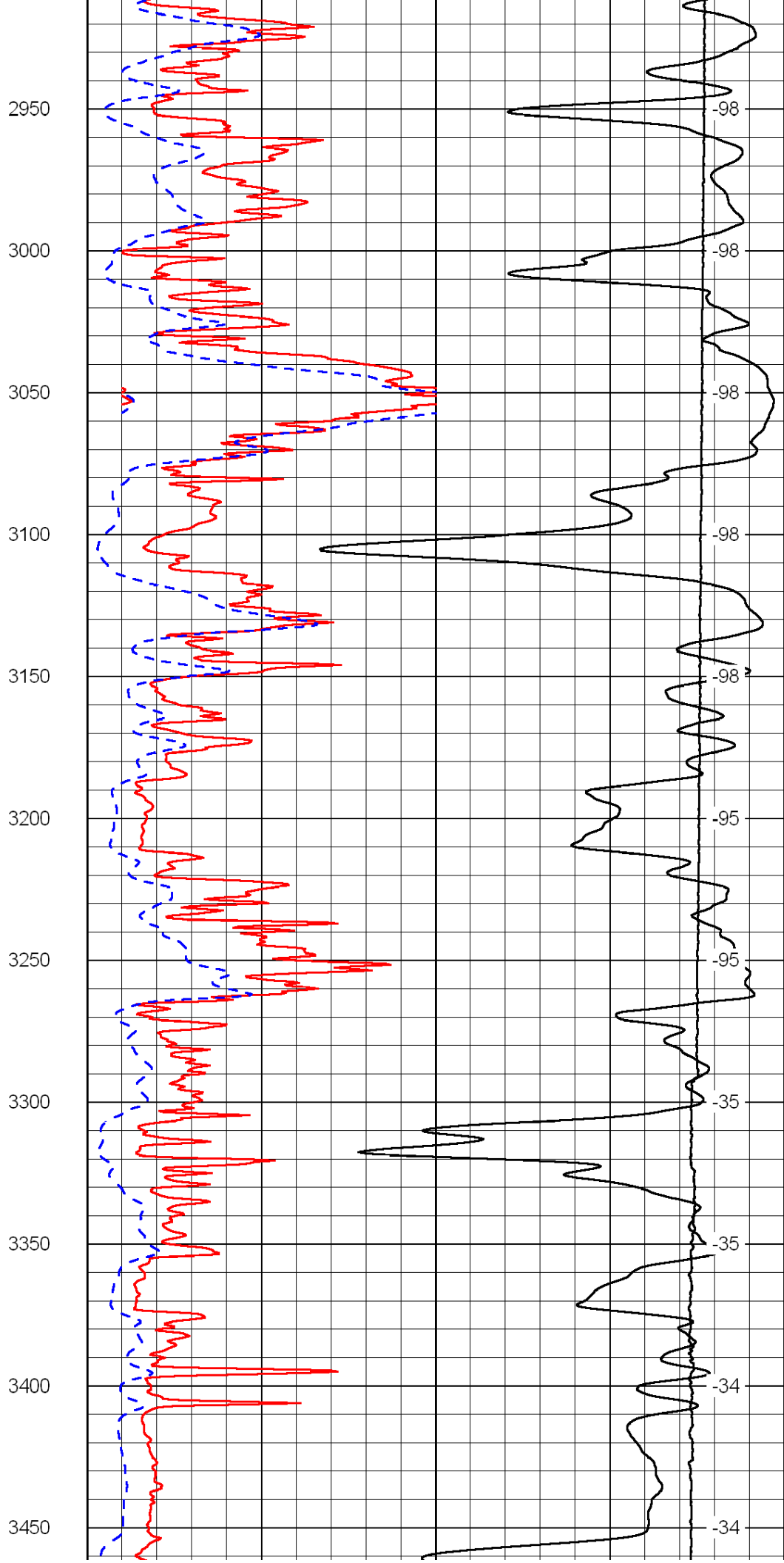
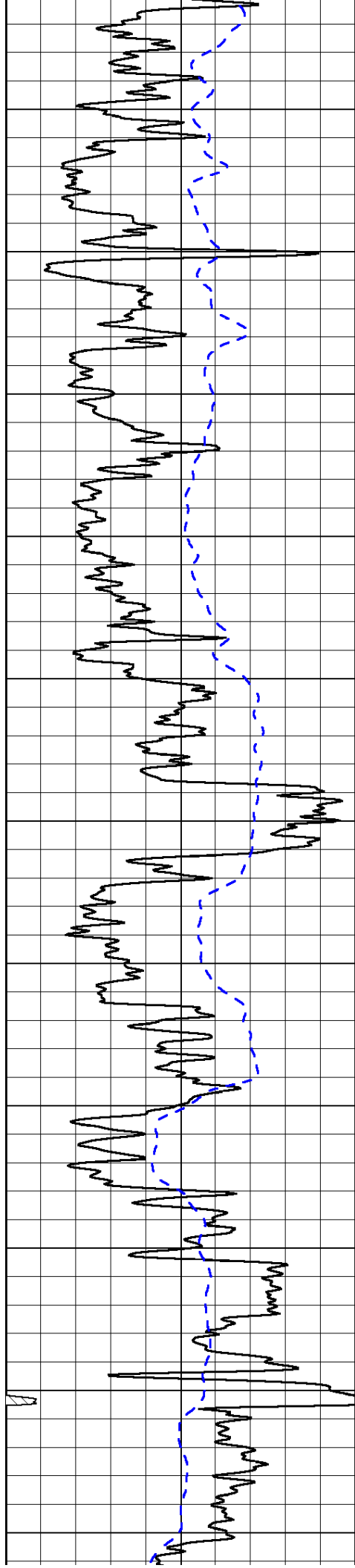


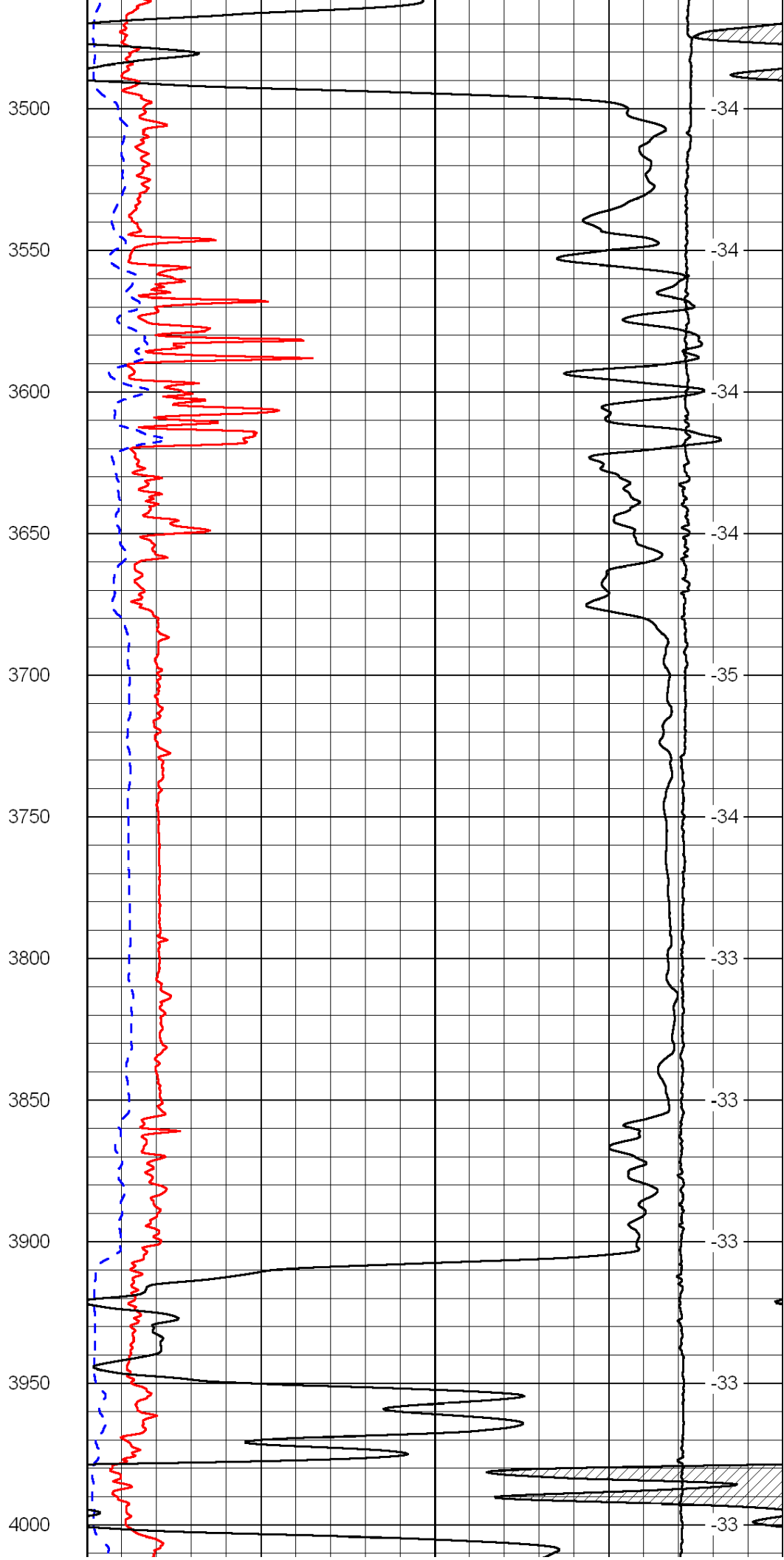
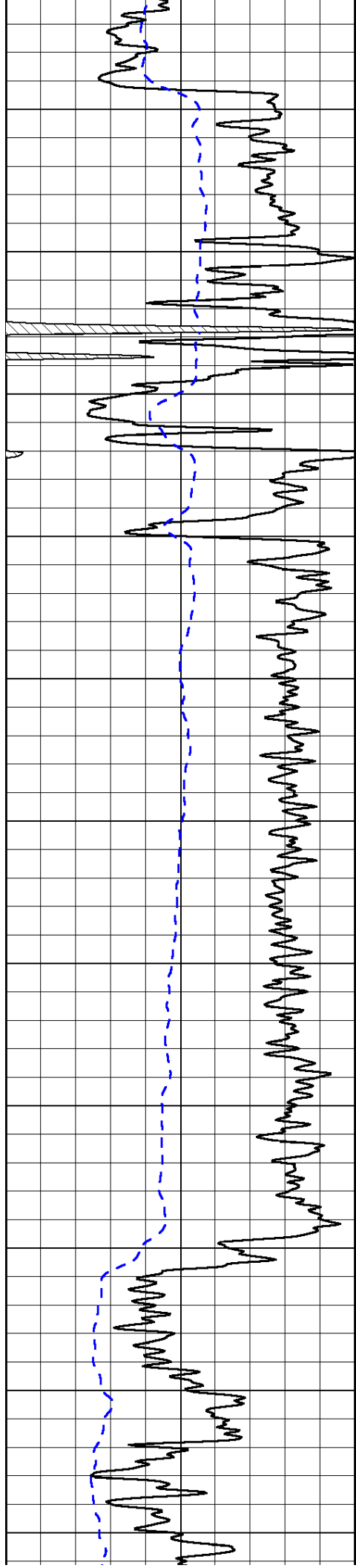


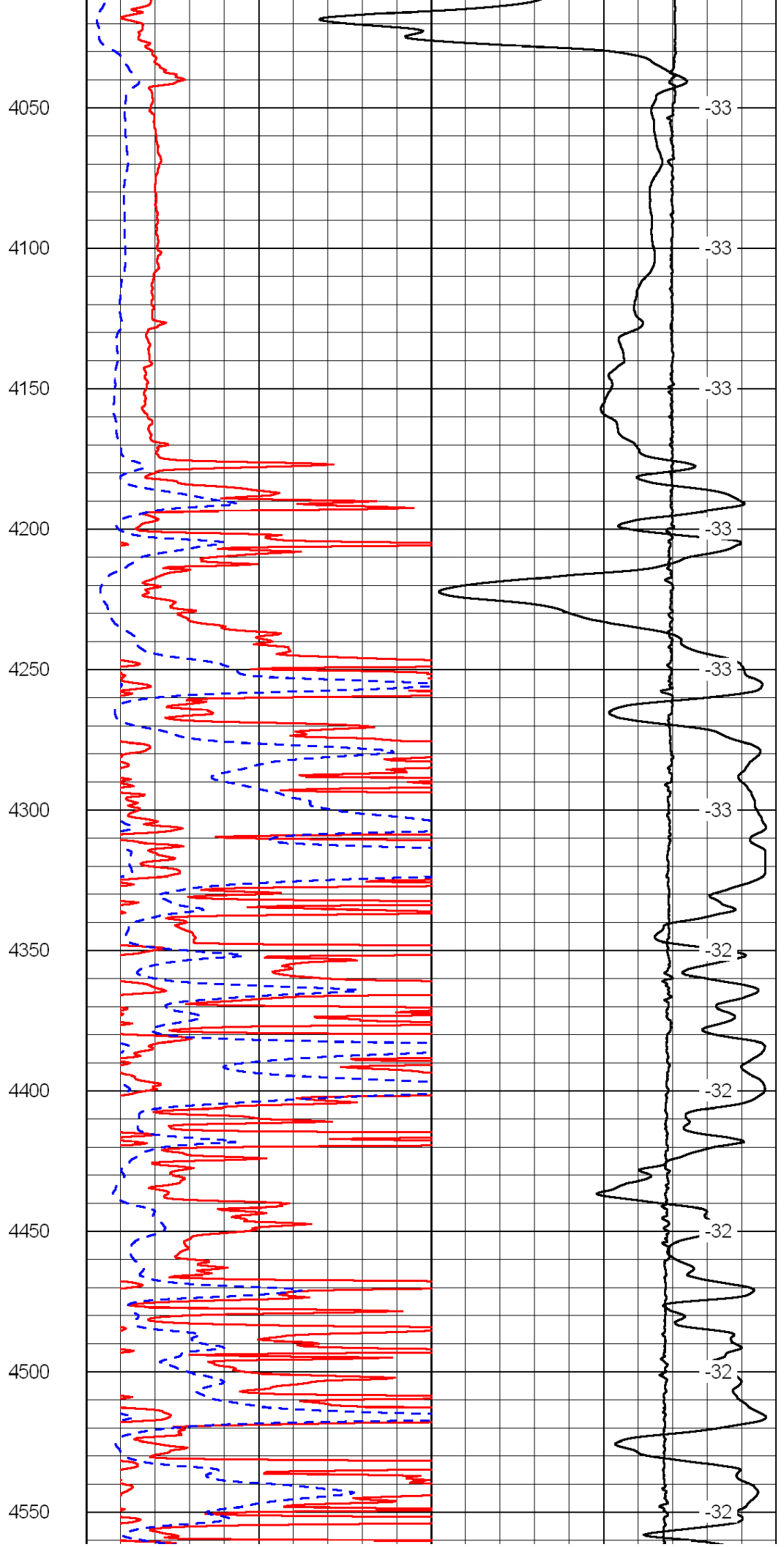
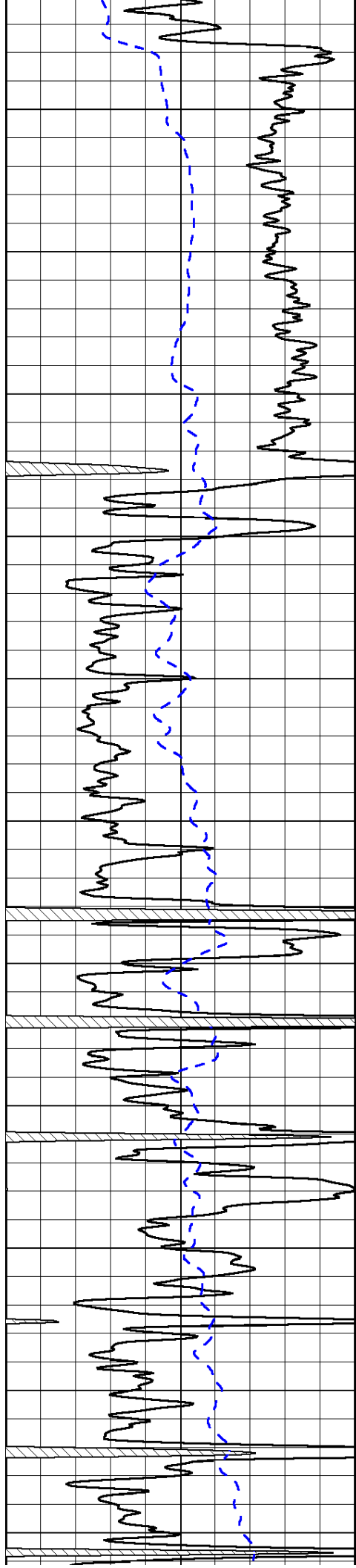


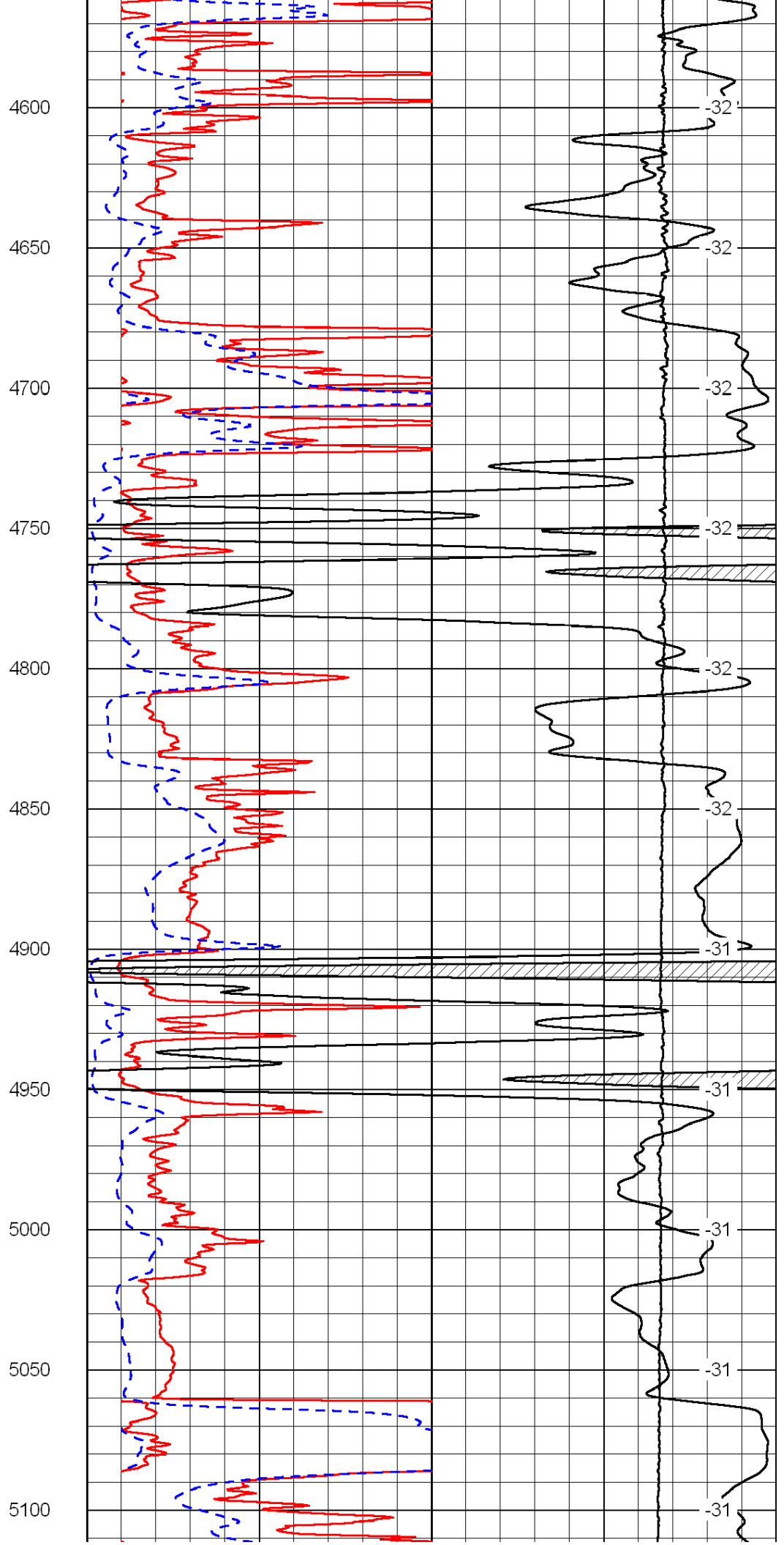
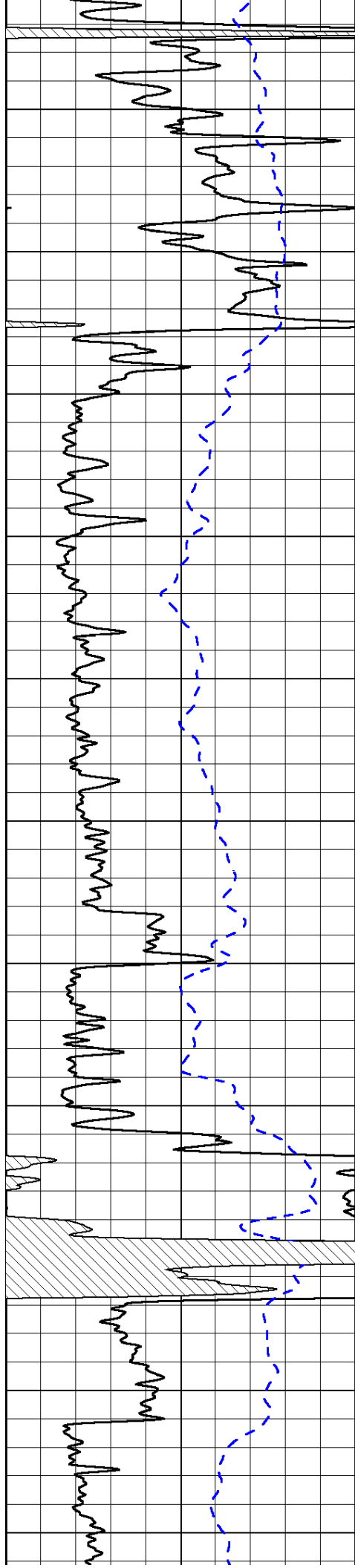


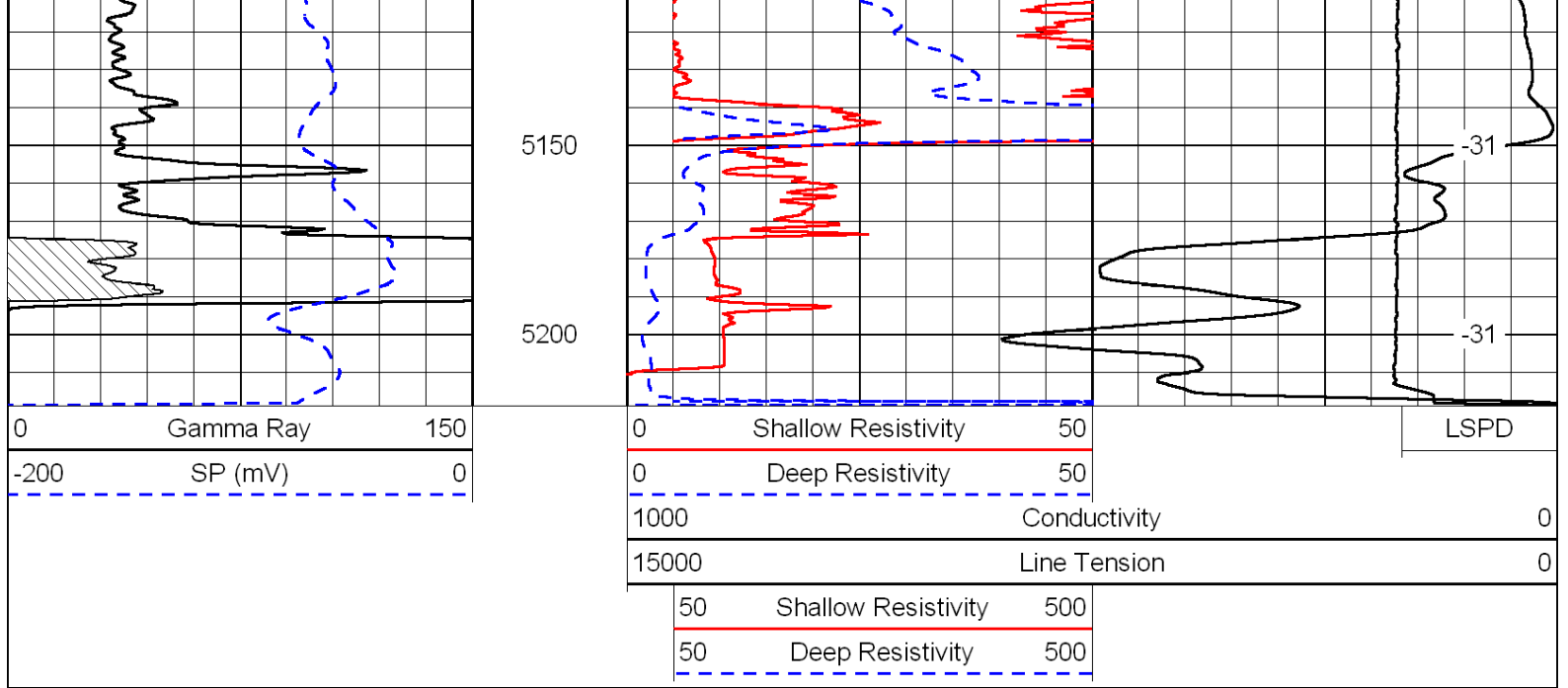




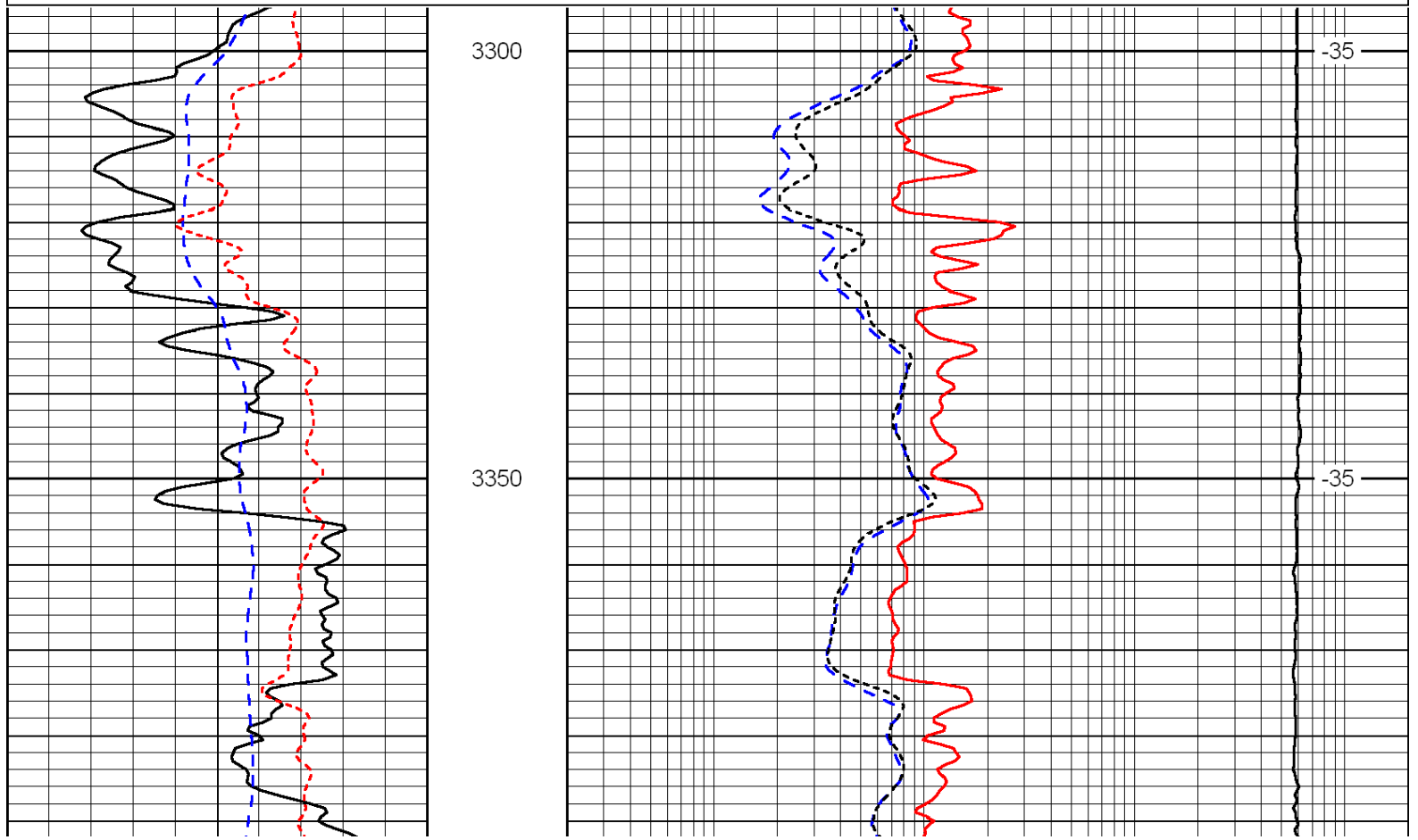
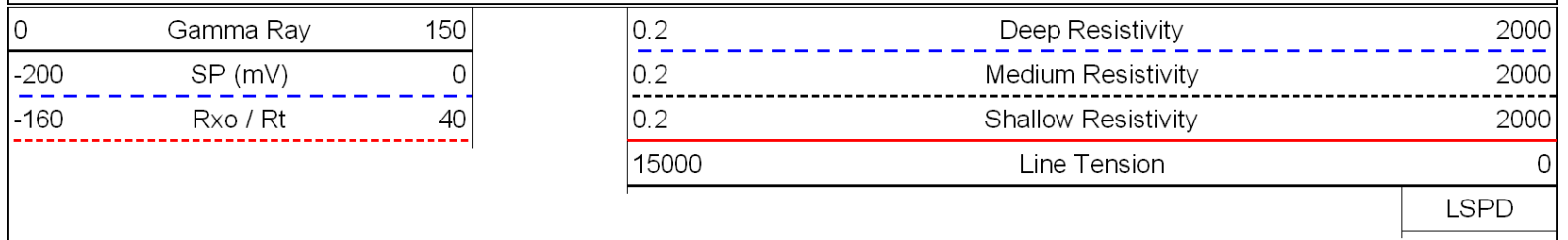


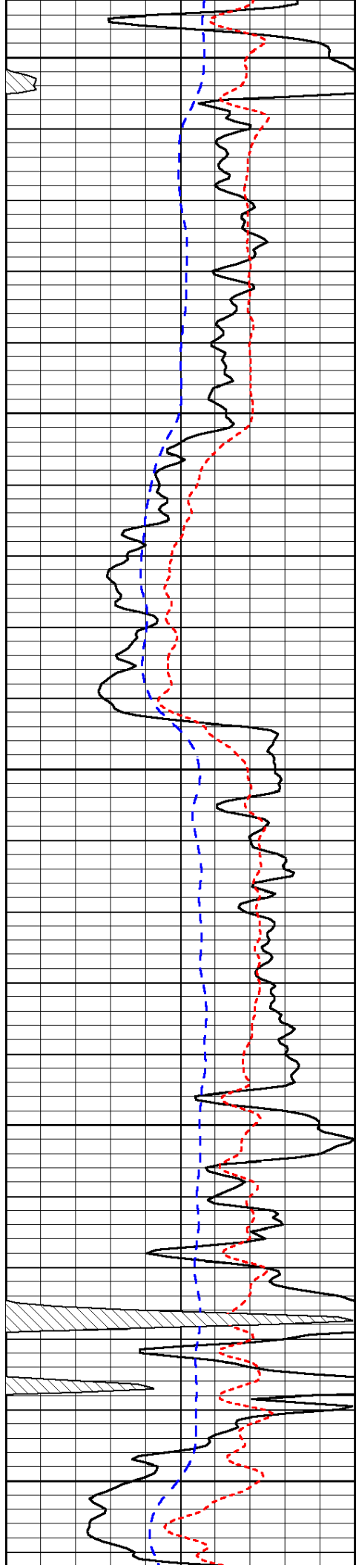






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 Presentation Format: dil  
 Dataset Creation: Wed Sep 14 09:06:45 2011  
 Charted by: Depth in Feet scaled 1:240





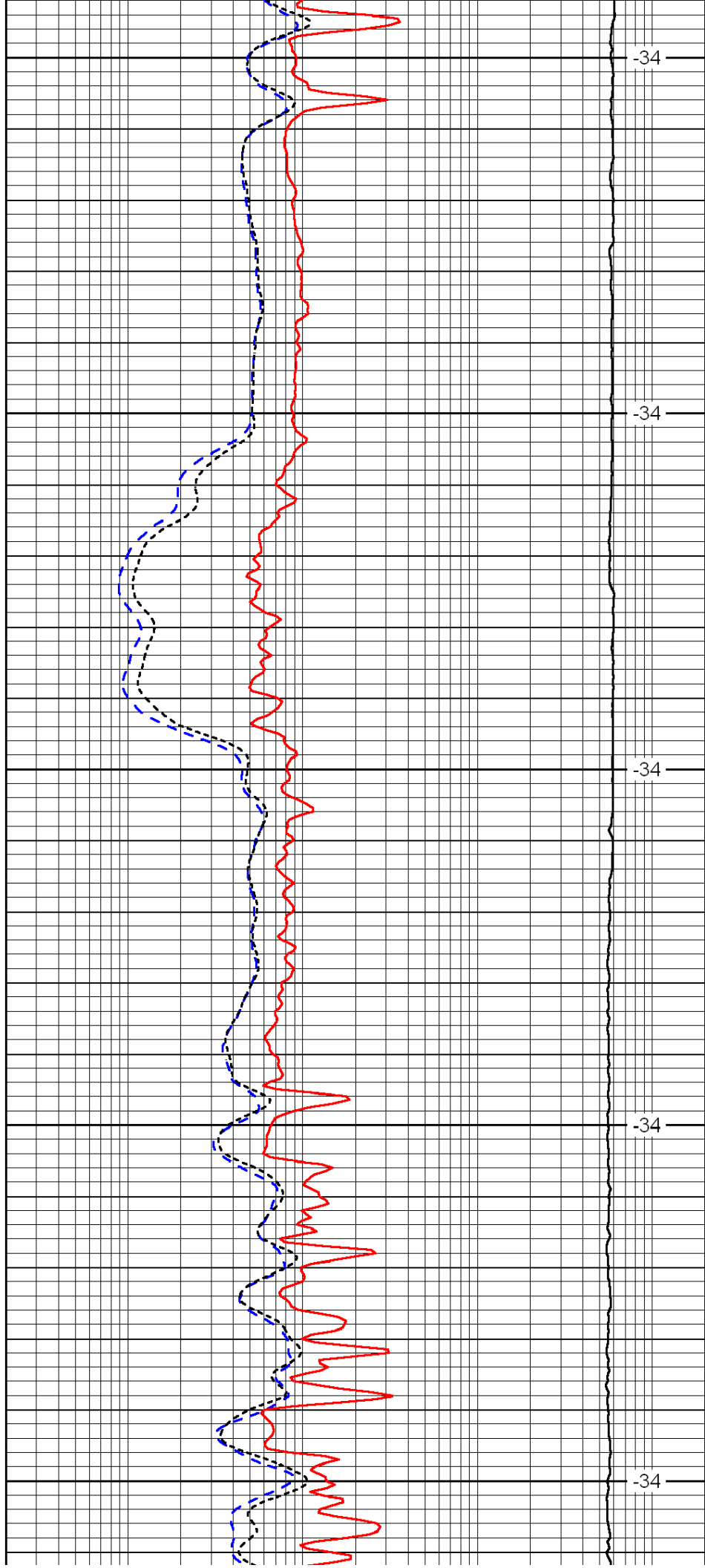
3400

3450

3500

3550

3600



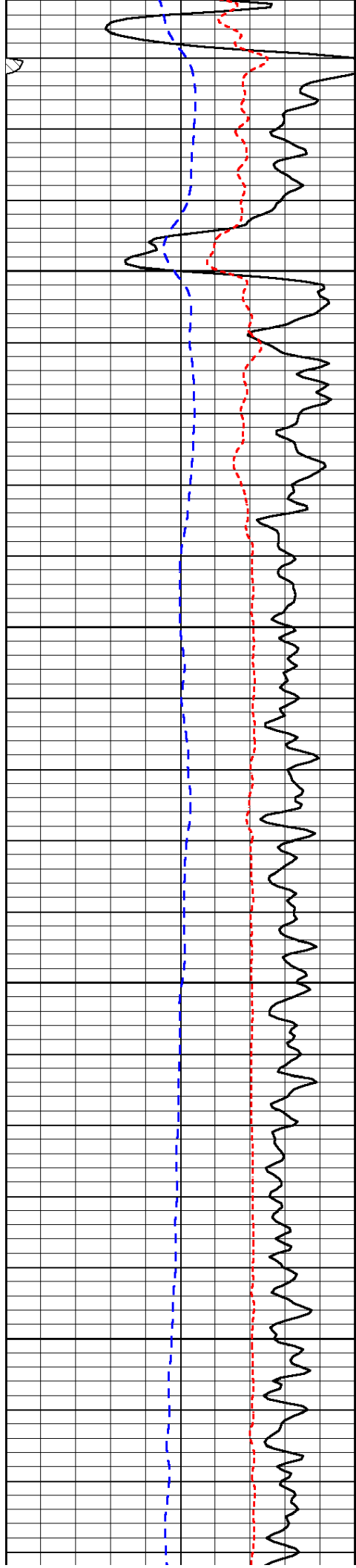
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-34

-34

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-34

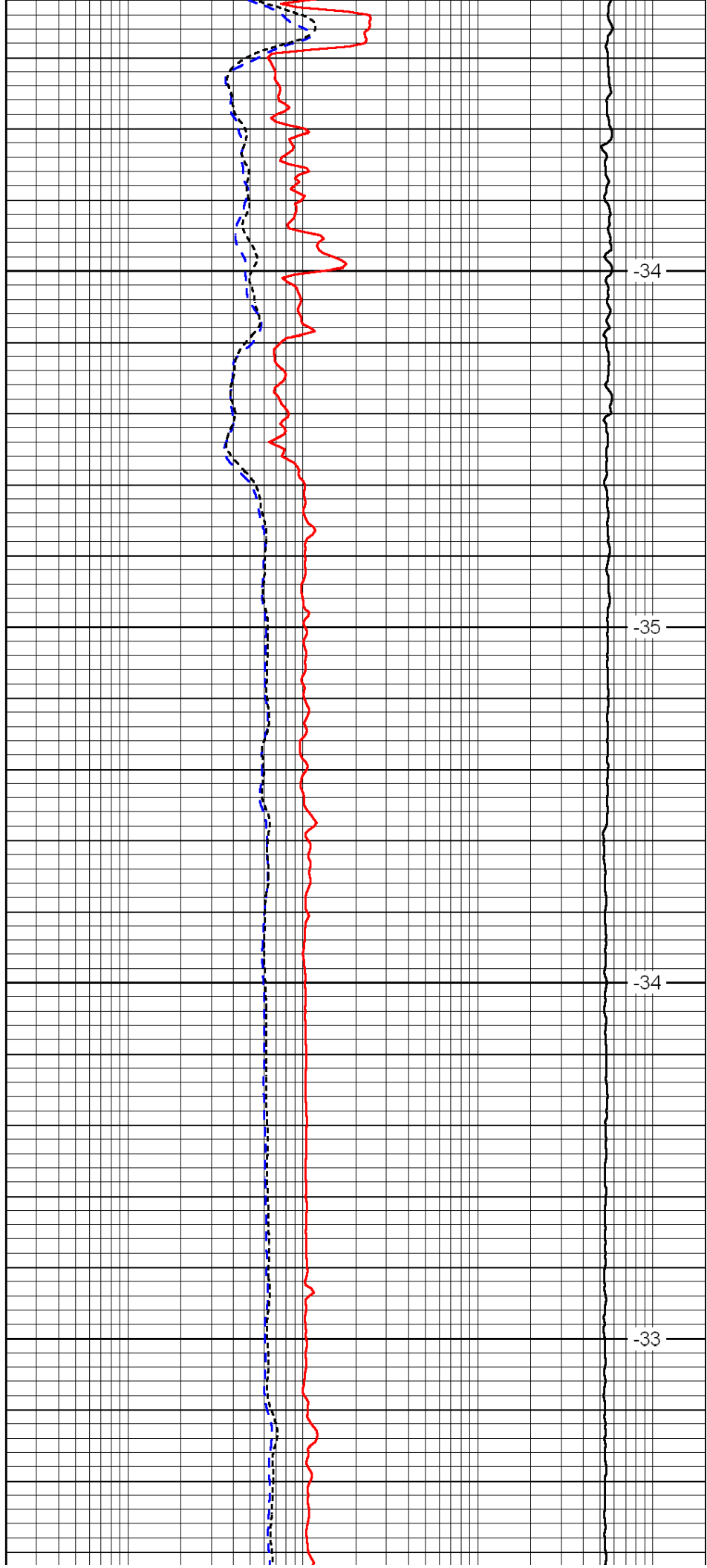


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3700

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3800

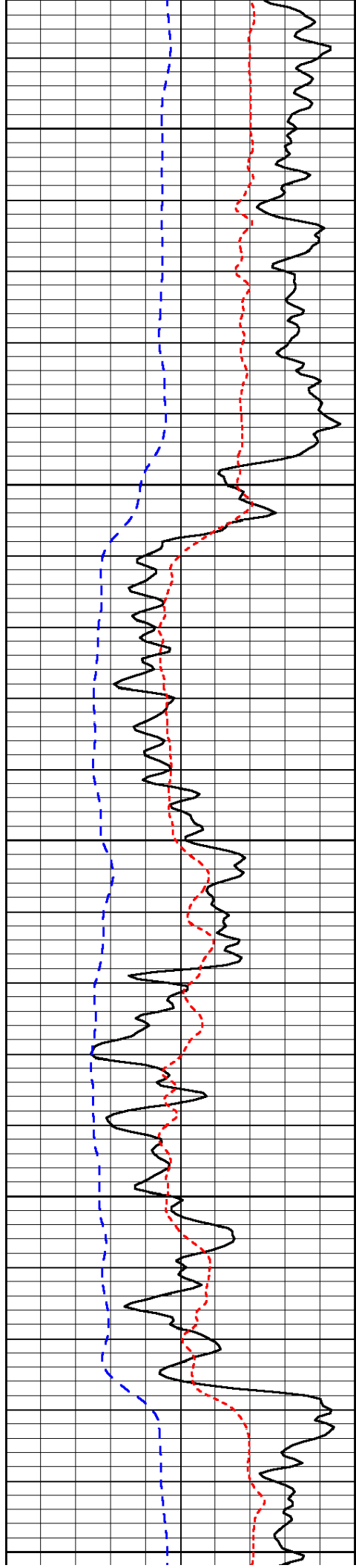


-34

-35

-34

-33



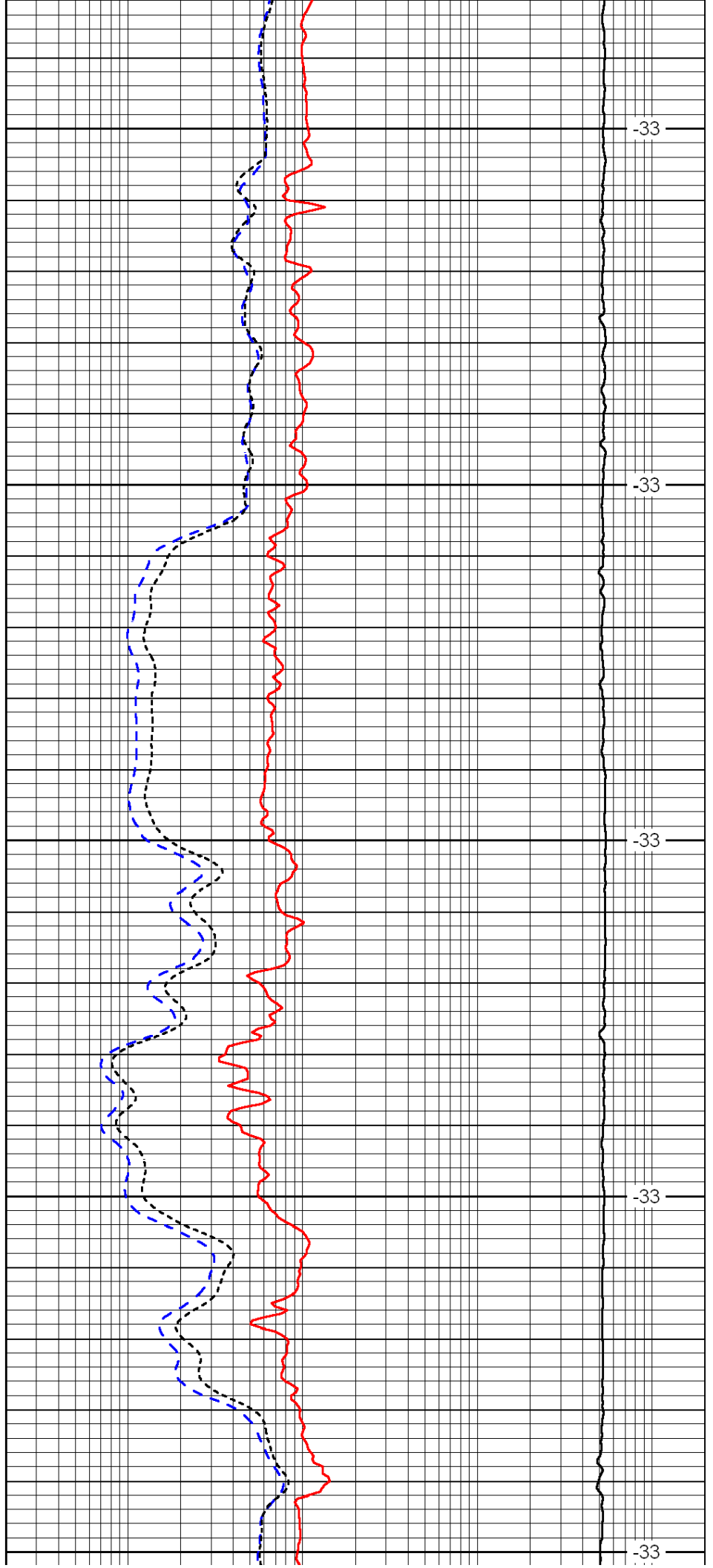
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3900

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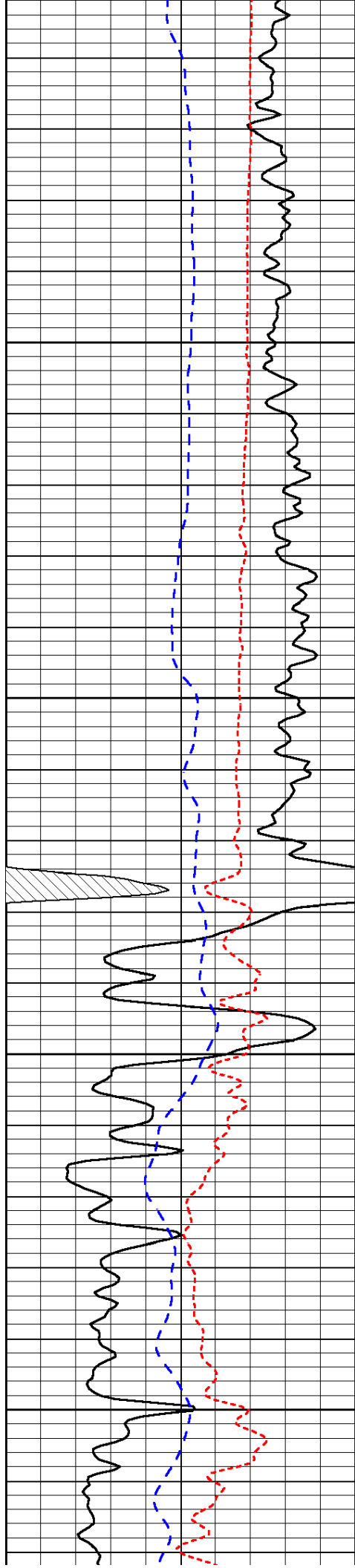
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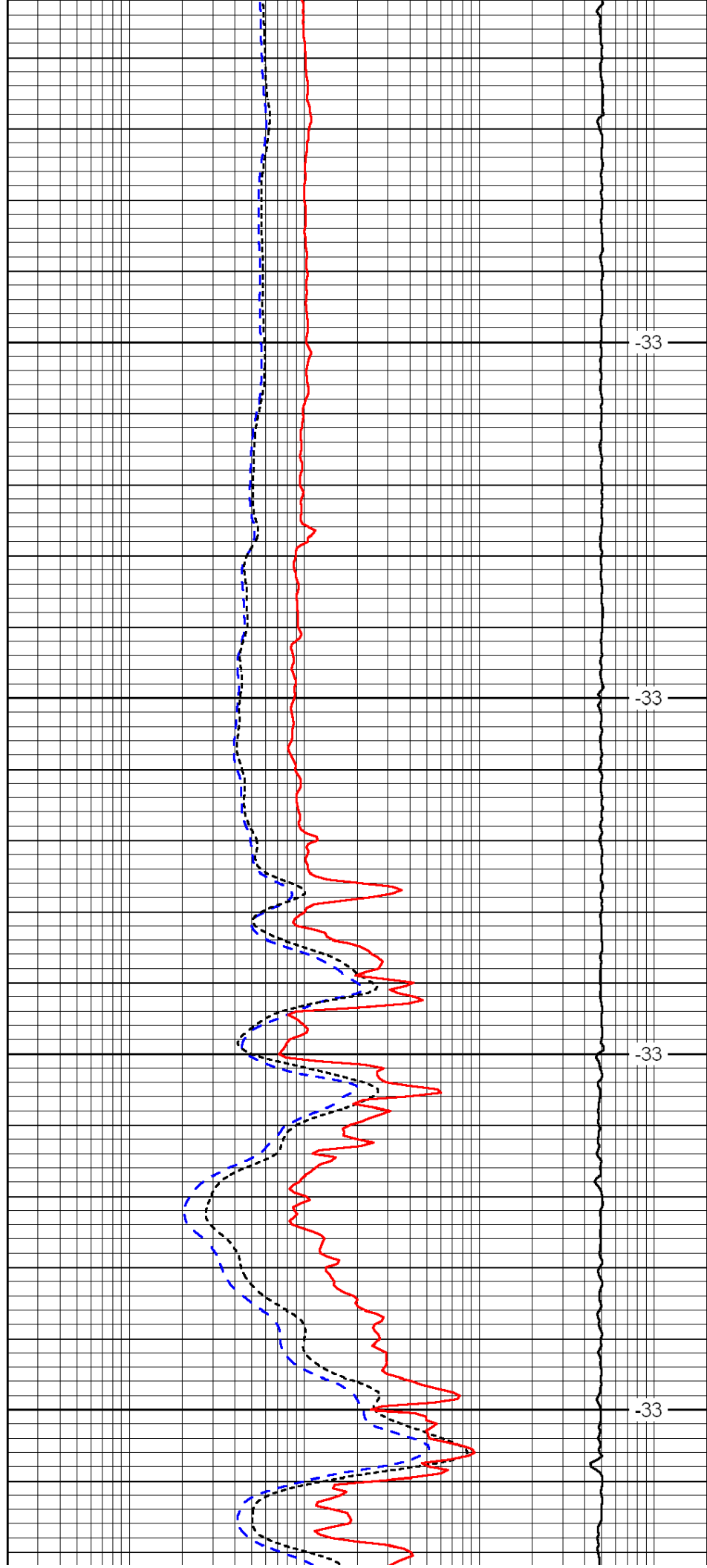


4100

4150

4200

4250

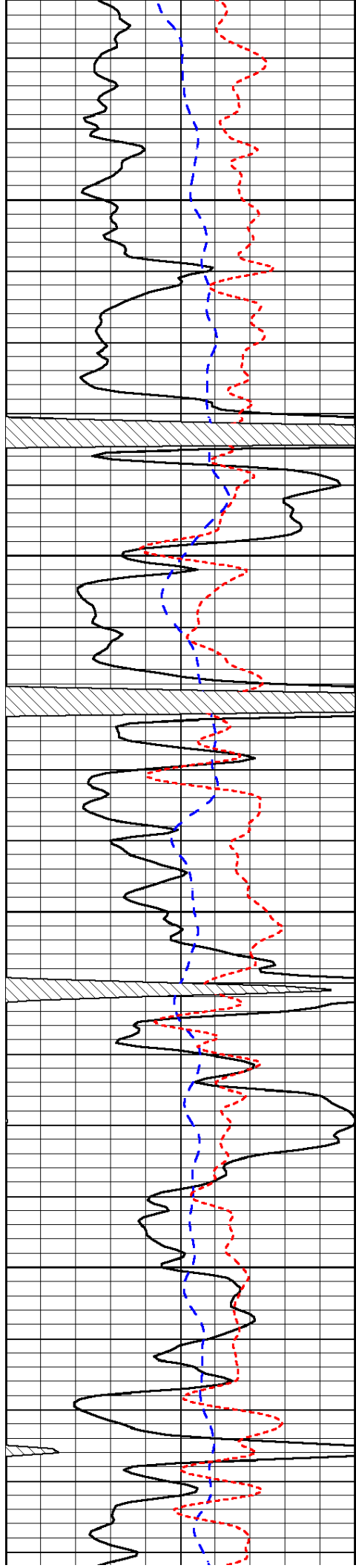


-33

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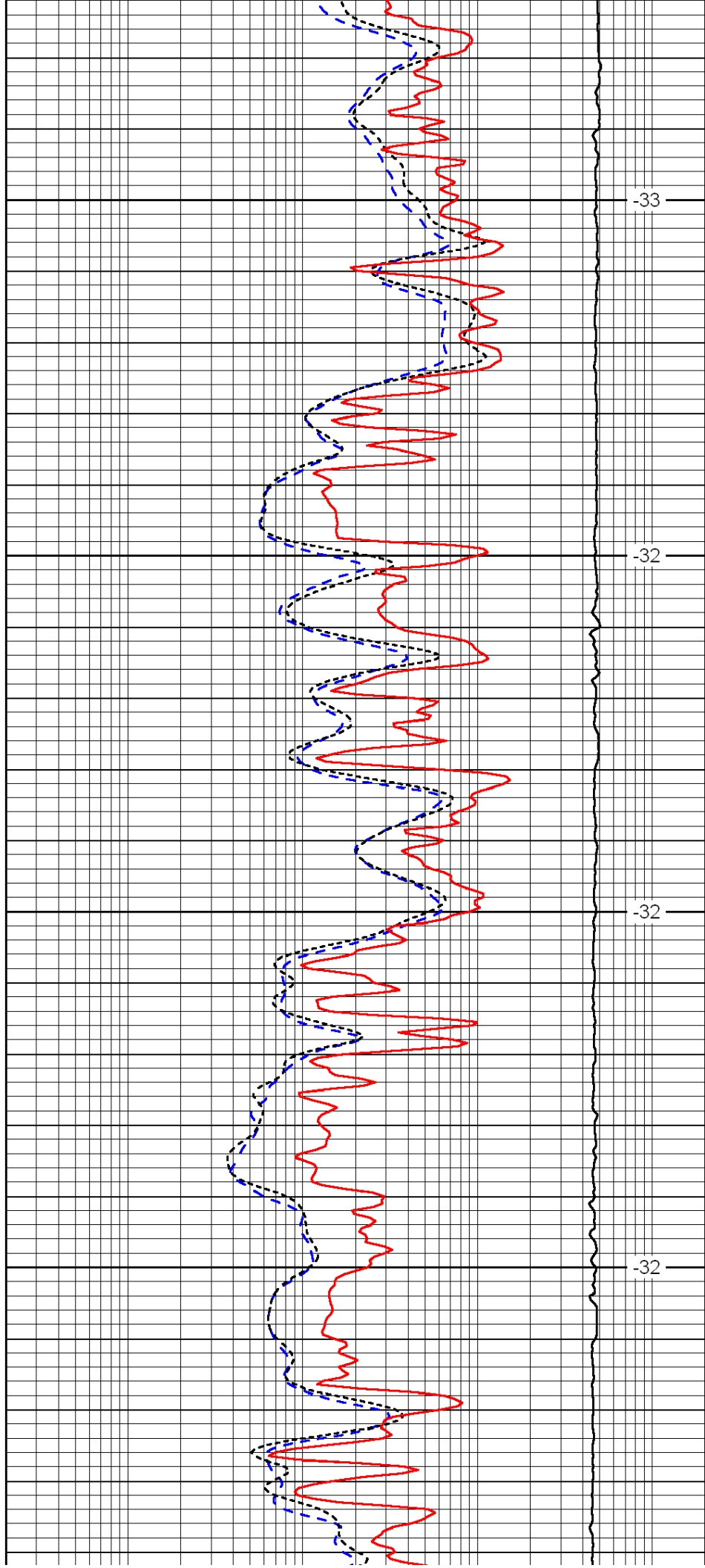


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4350

4400

4450

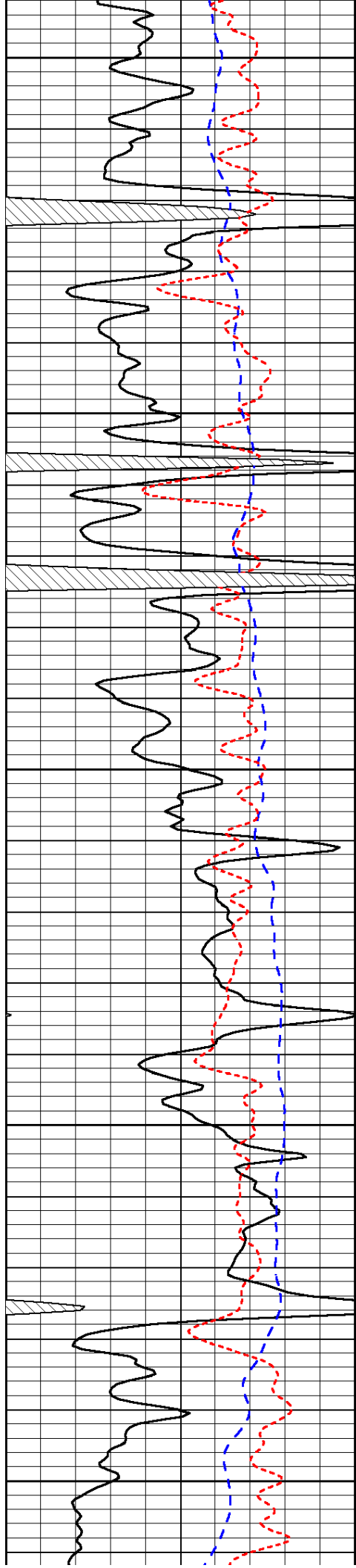


-33

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-32



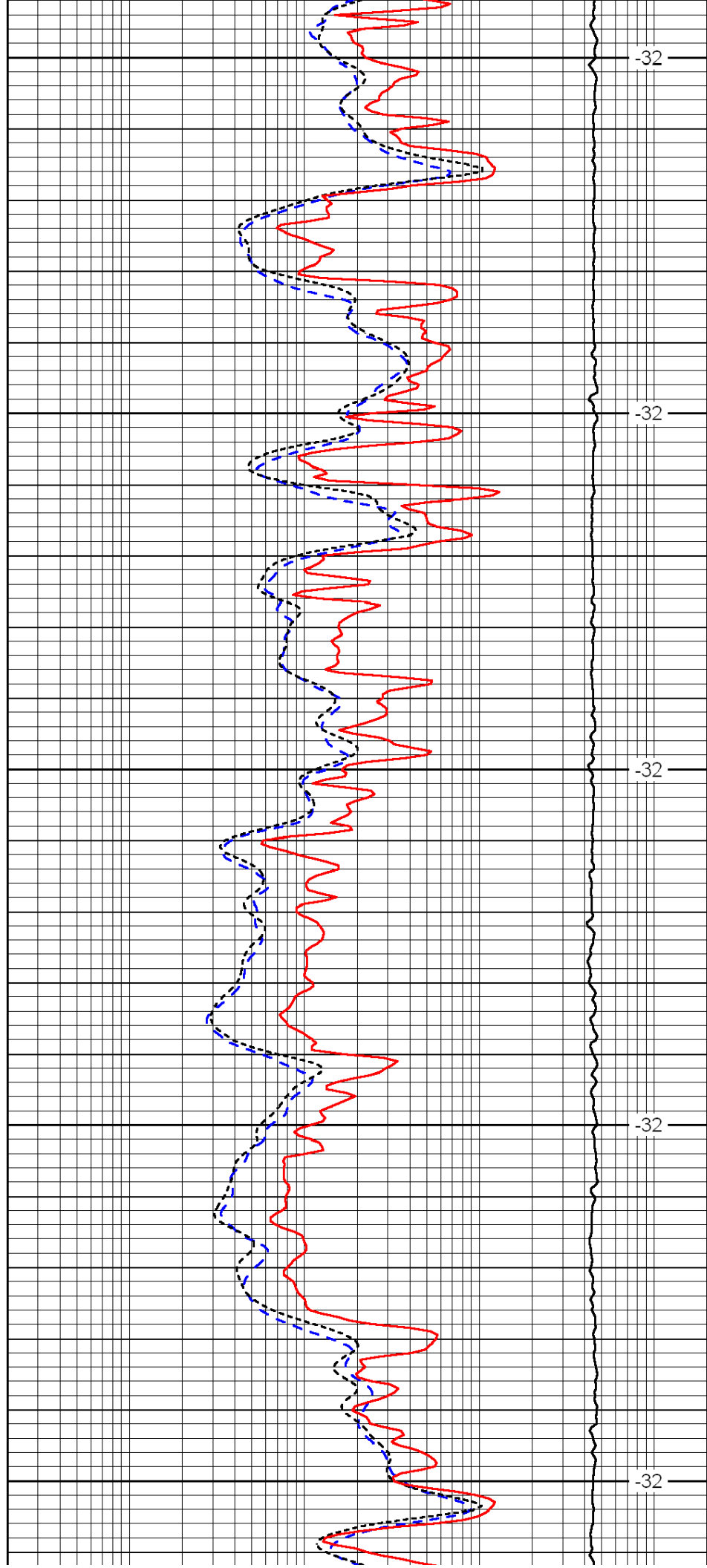
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4550

4600

4650

4700



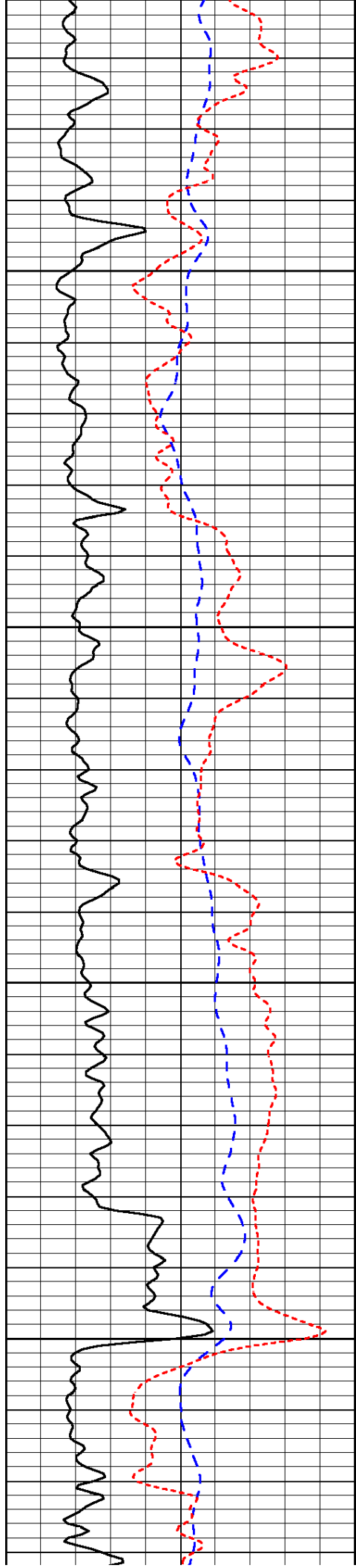
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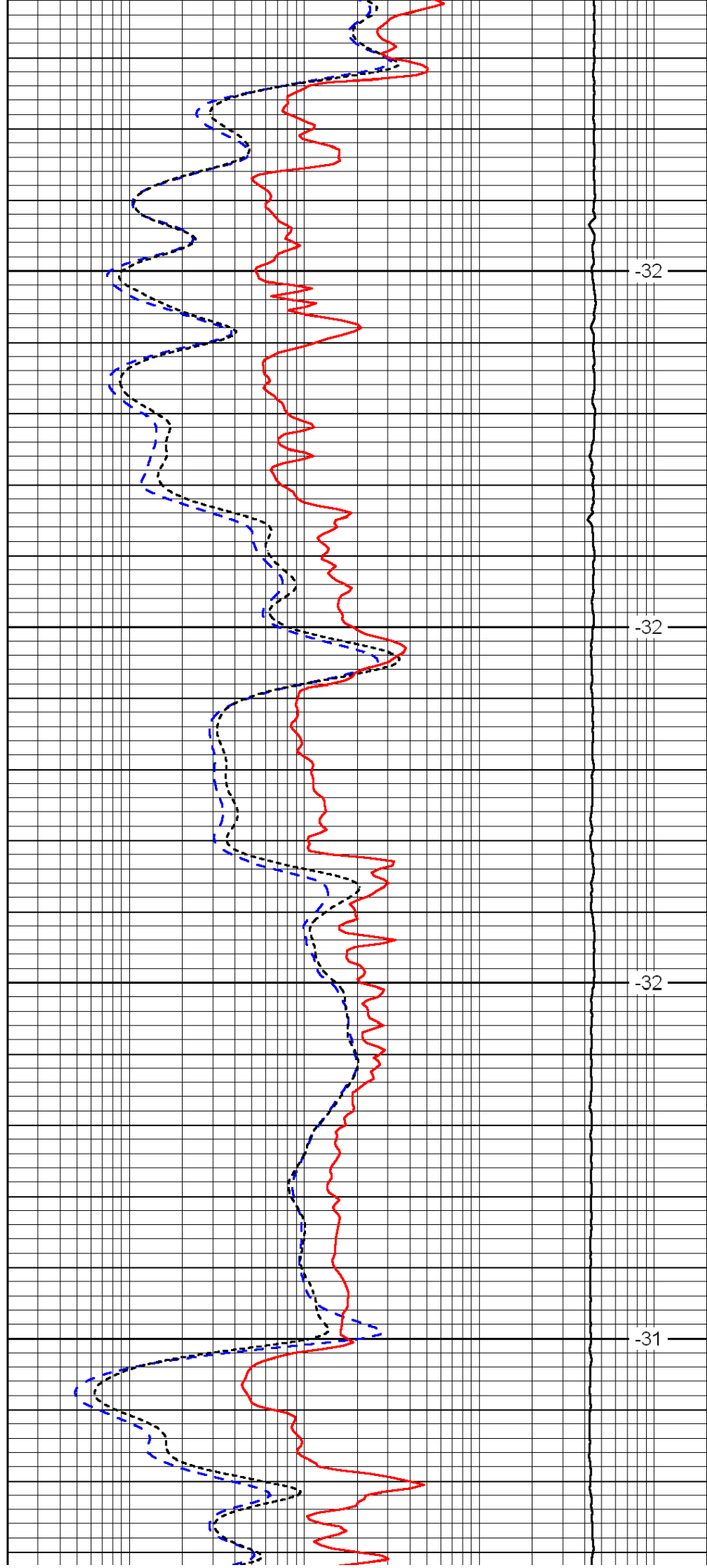


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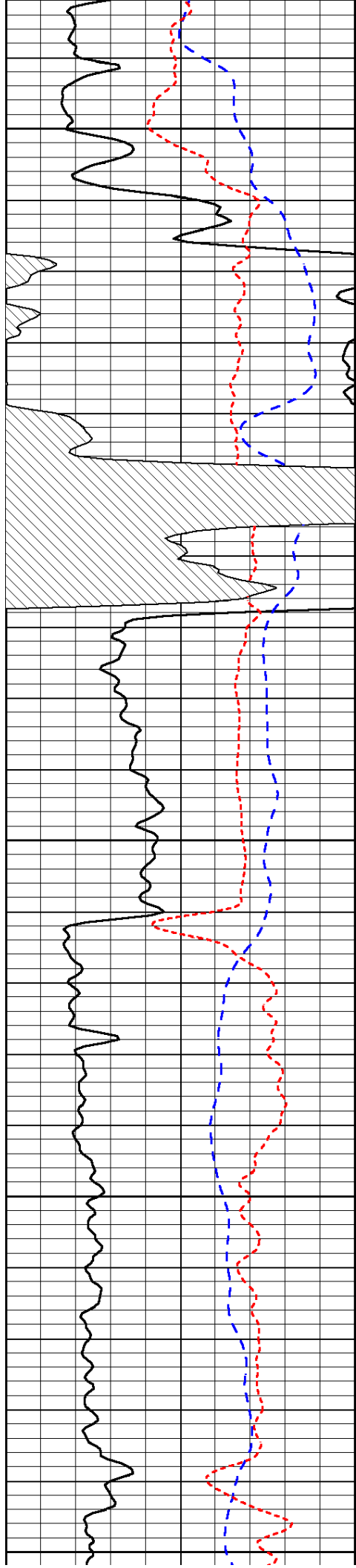


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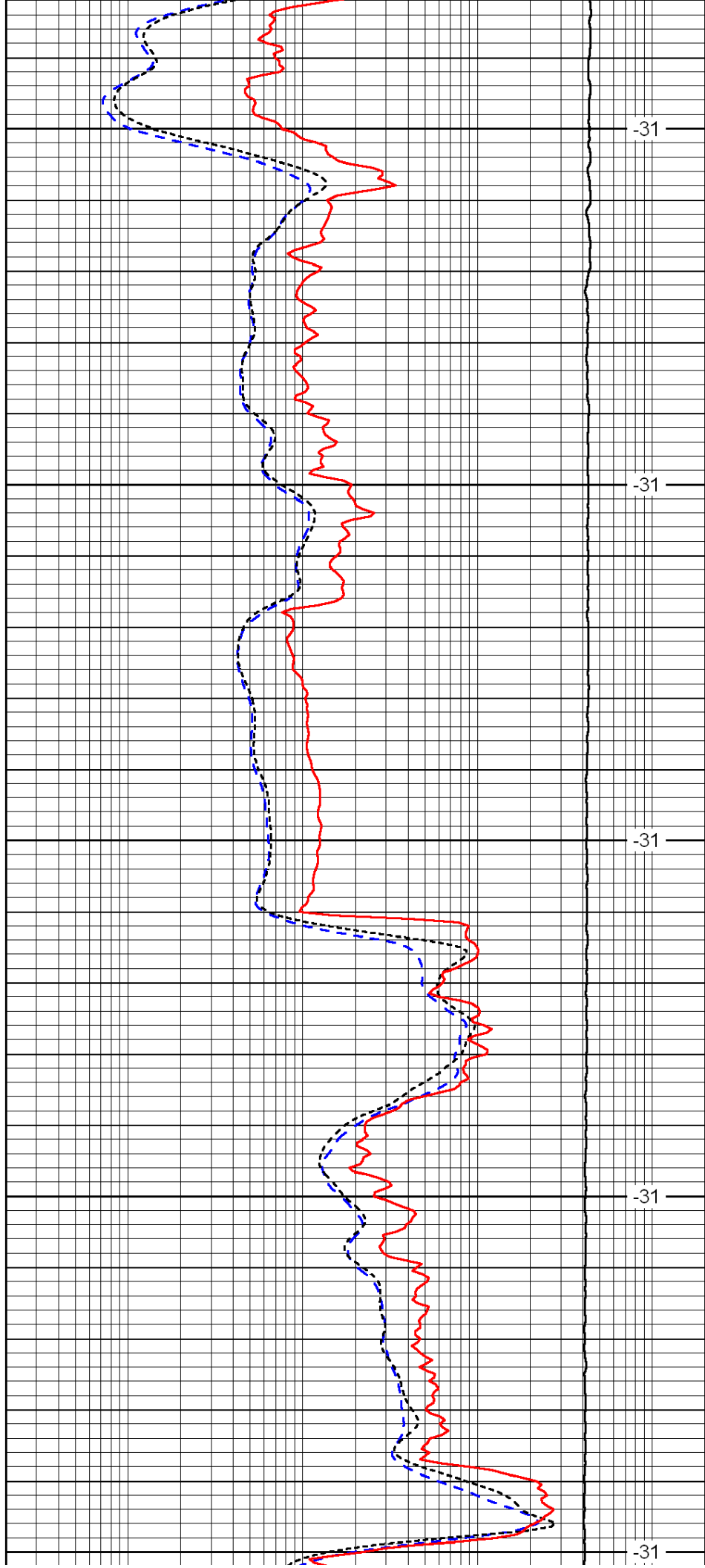
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5000

5050

5100

5150



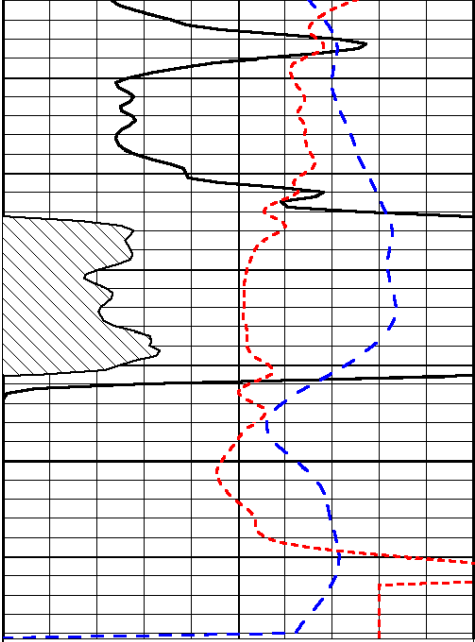
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-31

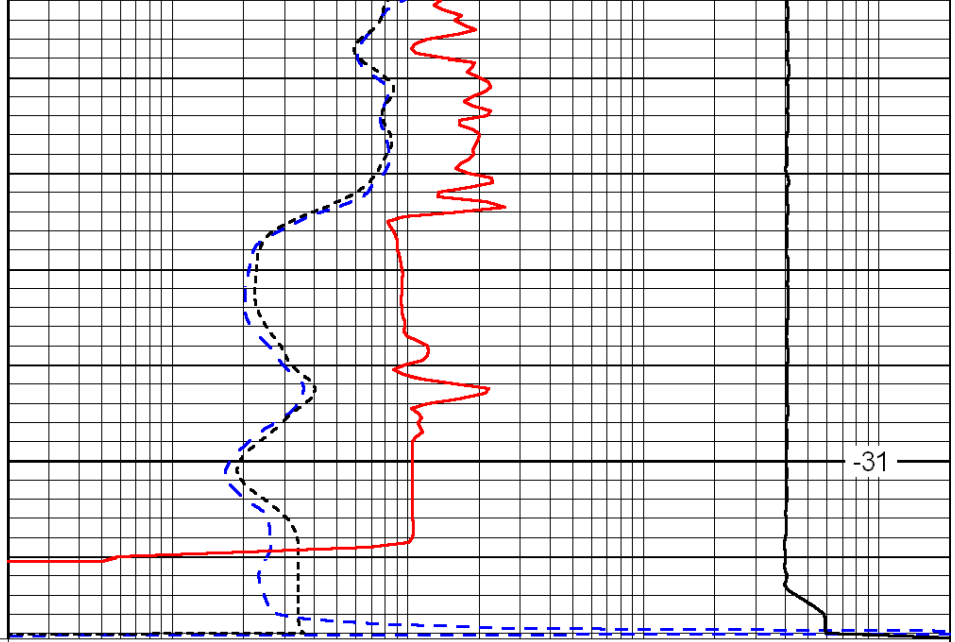
-31

-31



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

5200



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

LSPD