



## Dual Induction Log

Pioneer Energy Services

|                        |                          |                                     |          |
|------------------------|--------------------------|-------------------------------------|----------|
| API No.                | Company Val Energy, Inc. |                                     |          |
|                        | Well John #1-20          |                                     |          |
|                        | Field Wildcat            |                                     |          |
|                        | County Thomas            | State                               | Kansas   |
|                        | Location                 | 2,336' FNL & 1,116' FWL             |          |
|                        | Sec: 20                  | Twp: 8S                             | Rge: 35W |
| Permanent Datum        | Ground Level             | Elevation 3317                      |          |
| Log Measured From      | Kelly Bushing            | 10 Ft. Above Perm. Datum            |          |
| Drilling Measured From | Kelly Bushing            | K.B. 3327<br>D.F. 3317<br>G.L. 3317 |          |
| Date                   | 5/5/2014                 |                                     |          |
| Run Number             | One                      |                                     |          |
| Depth Driller          | 4860                     |                                     |          |
| Depth Logger           | 4860                     |                                     |          |
| Bottom Logged Interval | 4859                     |                                     |          |
| Top Log Interval       | 300                      |                                     |          |
| Casing Driller         | 8.625 @ 316              |                                     |          |
| Casing Logger          | 319                      |                                     |          |
| Bit Size               | 7.875                    |                                     |          |
| Type Fluid in Hole     | Chemical                 |                                     |          |
| Salinity, ppm CL       | 5000                     |                                     |          |
| Density / Viscosity    | 9.3 55                   |                                     |          |
| pH / Fluid Loss        | 10.0 9.6                 |                                     |          |
| Source of Sample       | Flowline                 |                                     |          |
| Rm @ Meas. Temp        | .50 @ 78                 |                                     |          |
| Rmf @ Meas. Temp       | .38 @ 78                 |                                     |          |
| Rmc @ Meas. Temp       | .68 @ 78                 |                                     |          |
| Source of Rmf / Rmc    | Charts                   |                                     |          |
| Rm @ BHT               | .31 @ 125                |                                     |          |
| Operating Rig Time     | 4 1/2 Hours              |                                     |          |
| Max Rec. Temp. F       | 125                      |                                     |          |
| Equipment Number       | 108                      |                                     |          |
| Location               | Hays                     |                                     |          |
| Recorded By            | J. Long                  |                                     |          |
| Witnessed By           | Harley Sayles            |                                     |          |

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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.

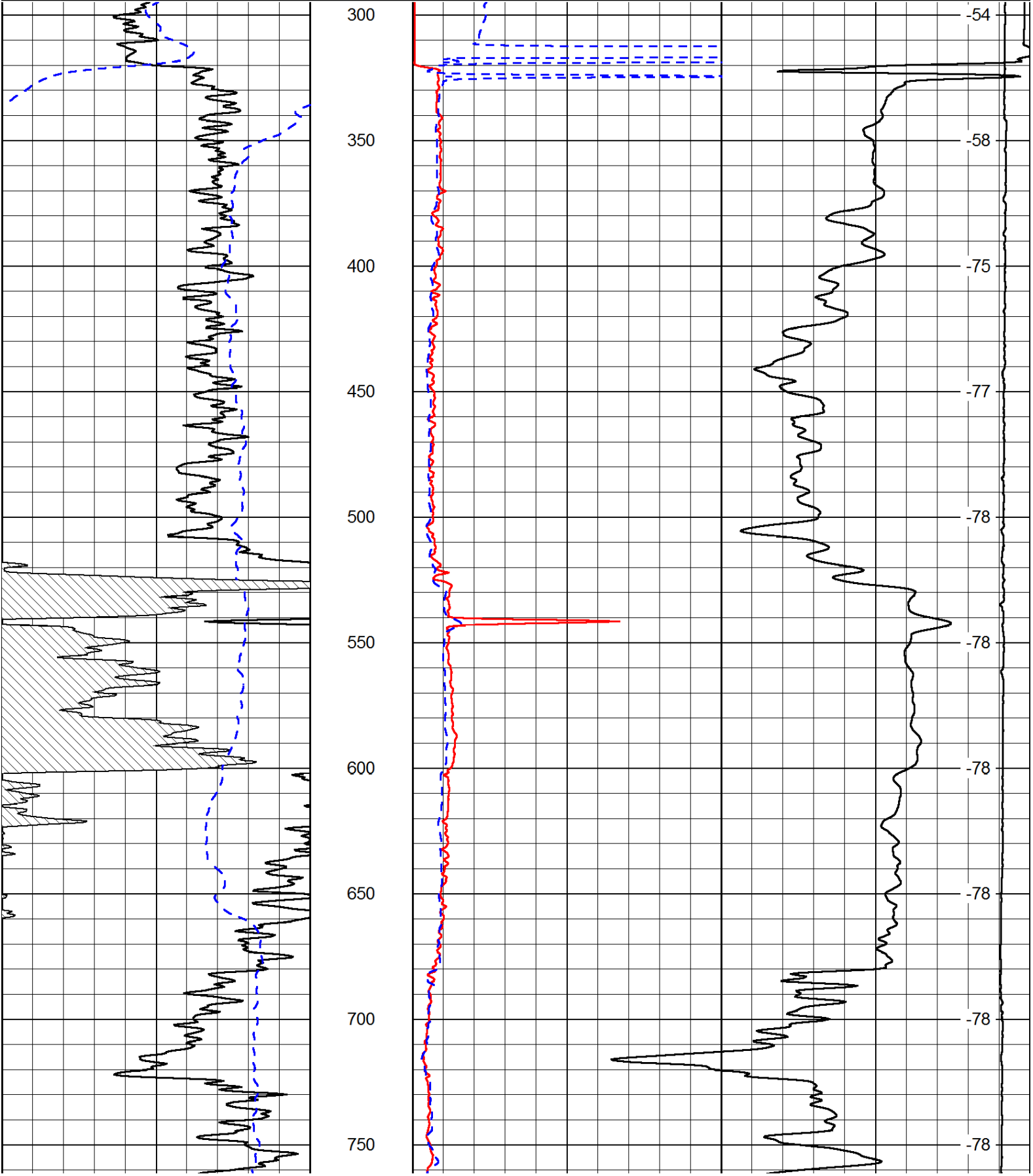
### Comments

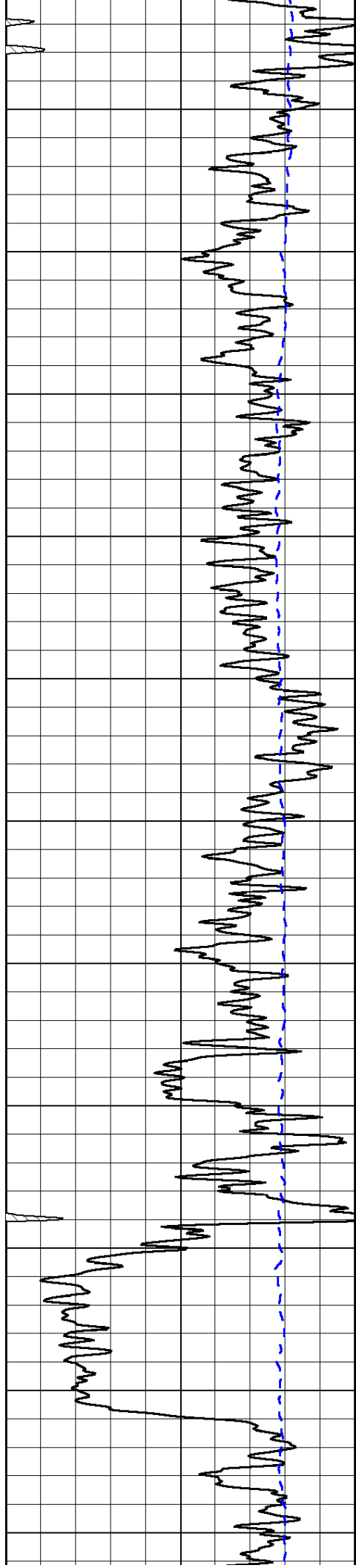
Thank you for using Pioneer Energy Services  
www.pioneerres.com  
785 625 3858

Levant Exit & I-70, 1 South, 2 3/4 West, South Into

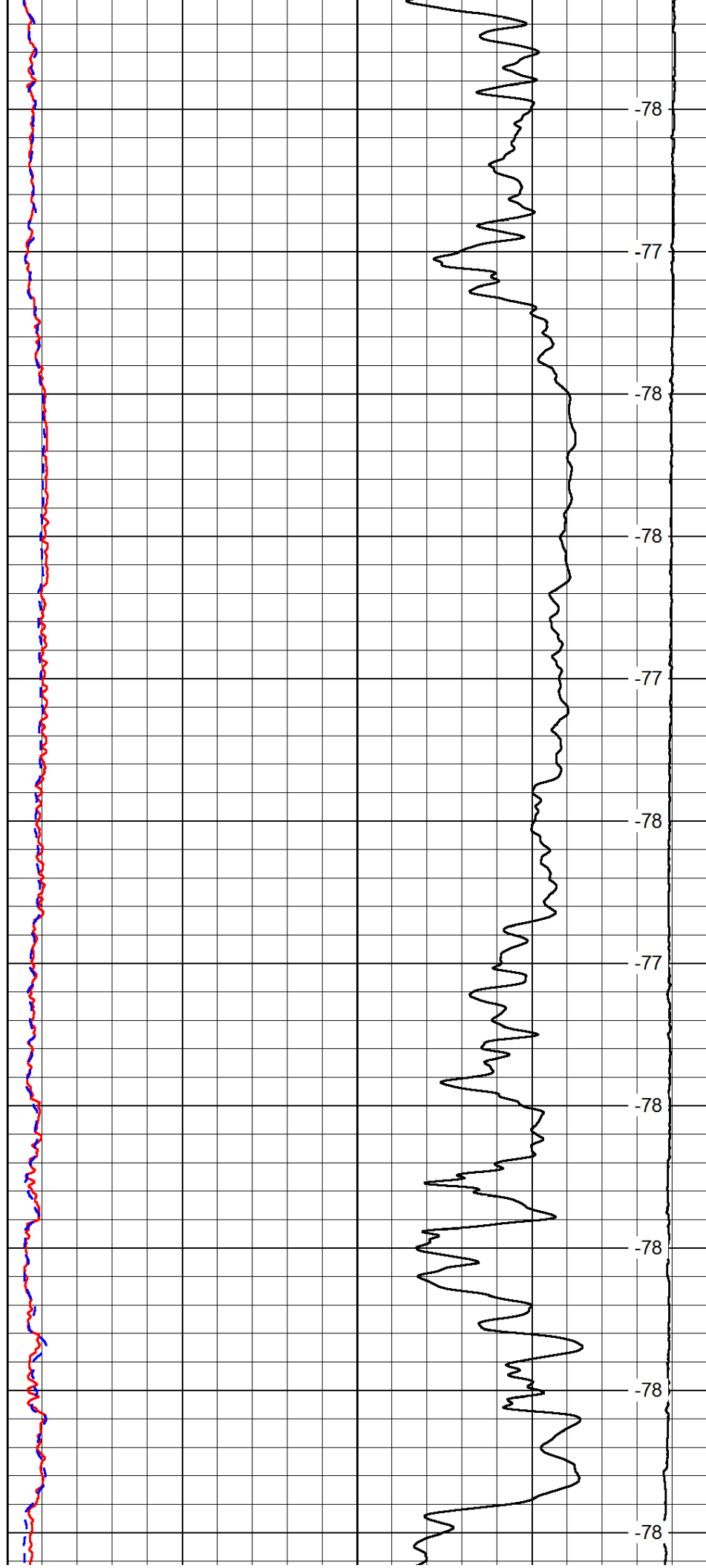
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Dataset Pathname: dil\valstck  
Presentation Format: dil2in  
Dataset Creation: Mon May 05 06:35:39 2014  
Charted by: Depth in Feet scaled 1:600

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| Charted by: _____ |           |     | Depth in Feet scaled 1:600 |  |  |      |  |  |
| 0                 | Gamma Ray | 150 |                            |  |  | LSPD |  |  |
| -200              | SP (mV)   | 0   |                            |  |  |      |  |  |
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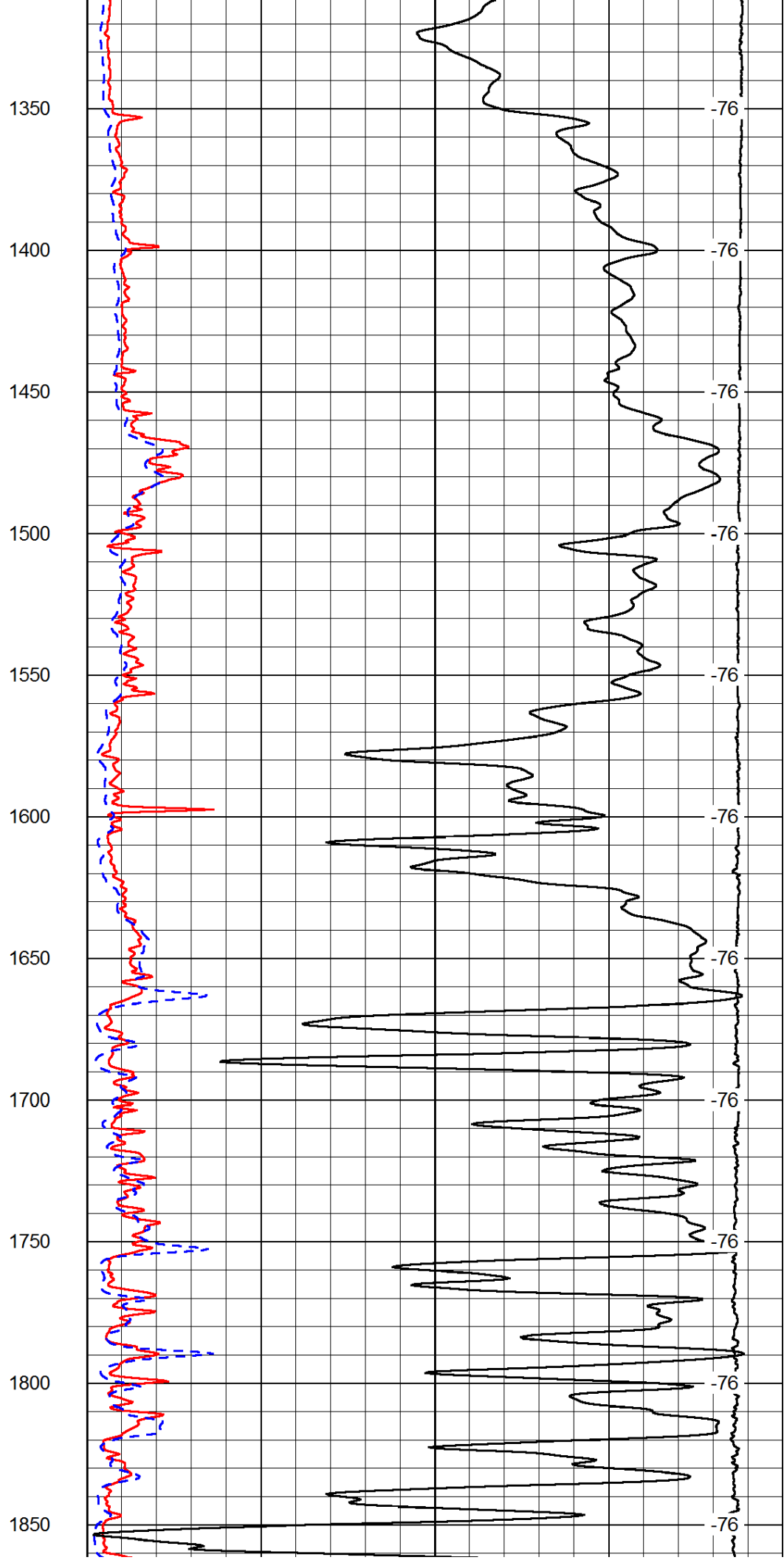
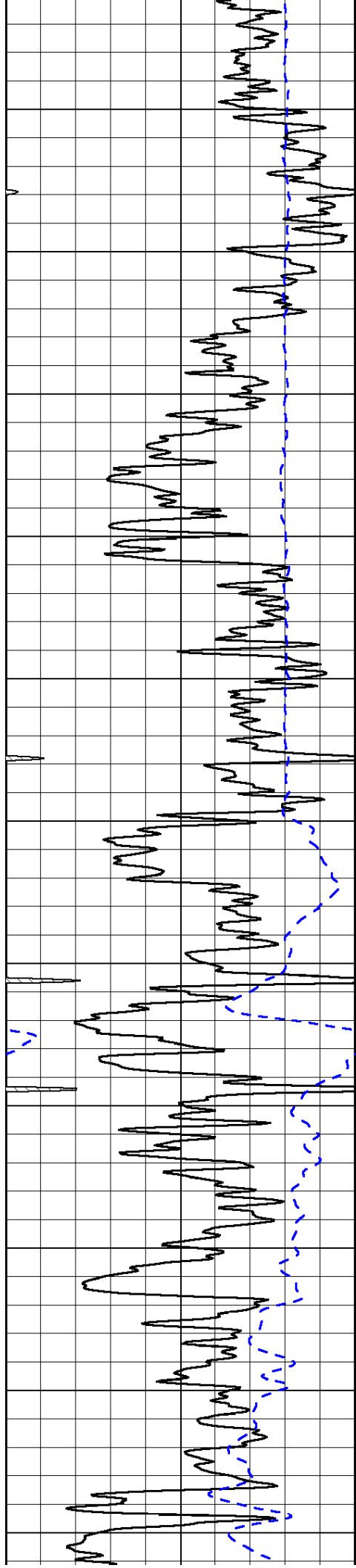


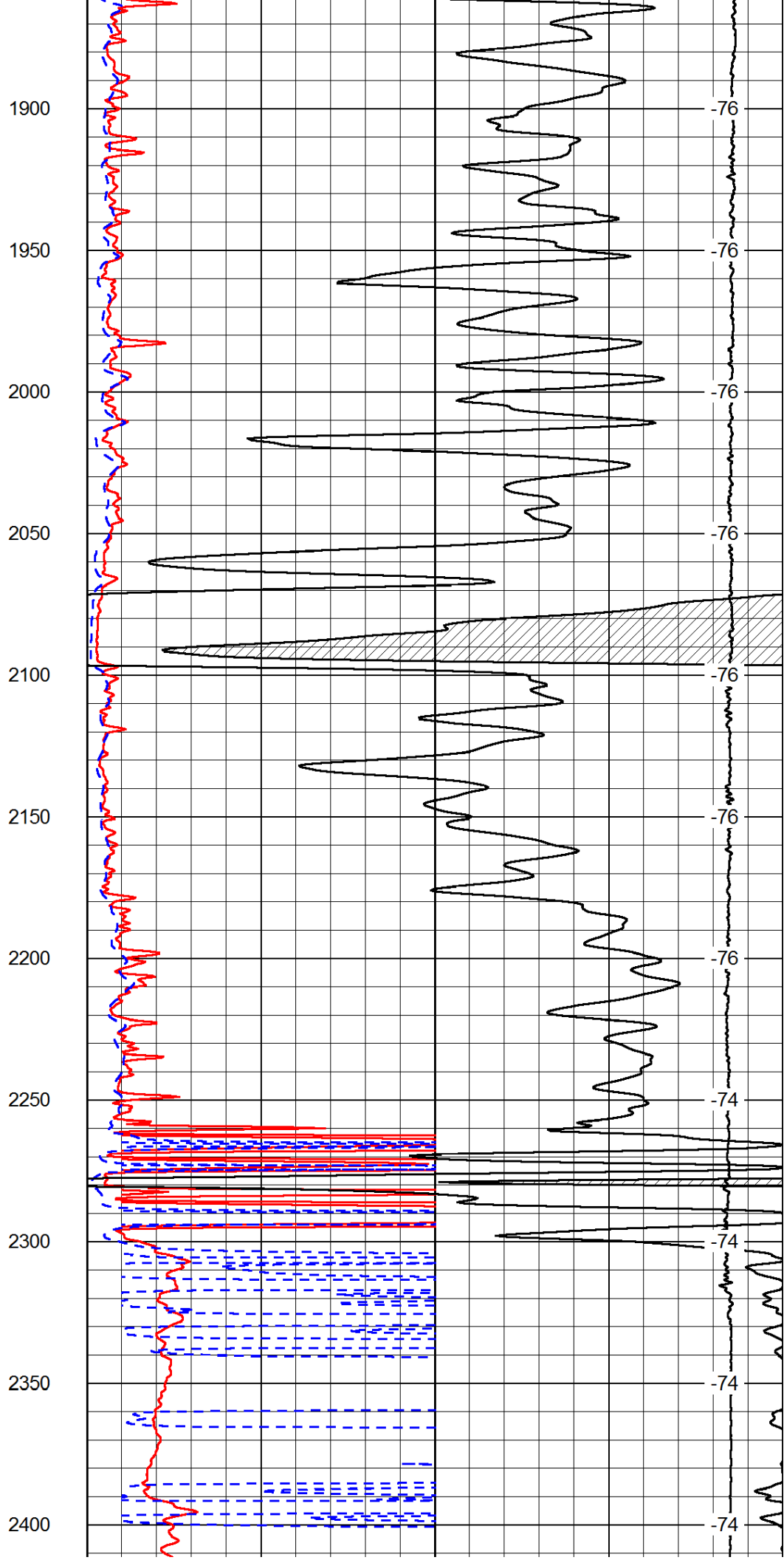
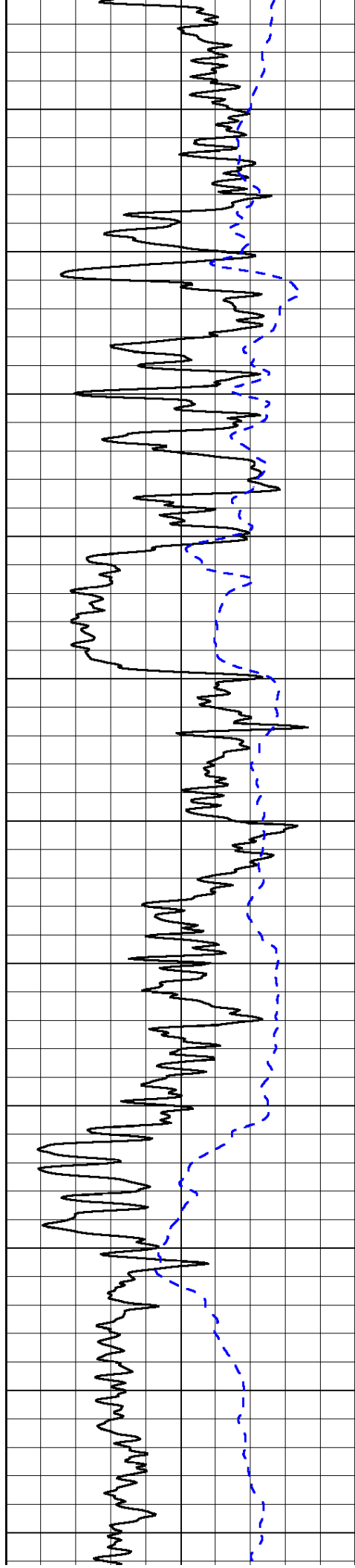


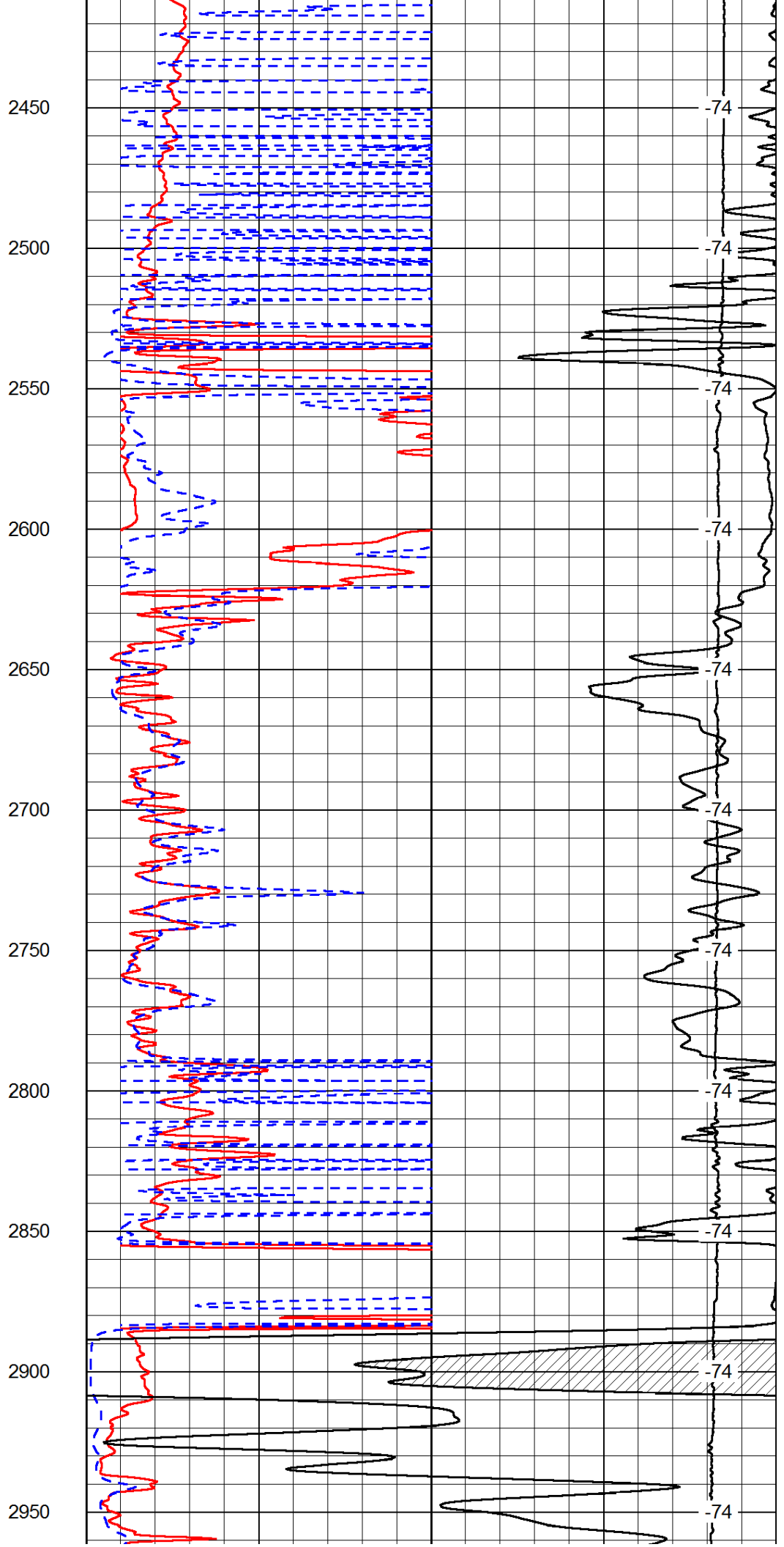
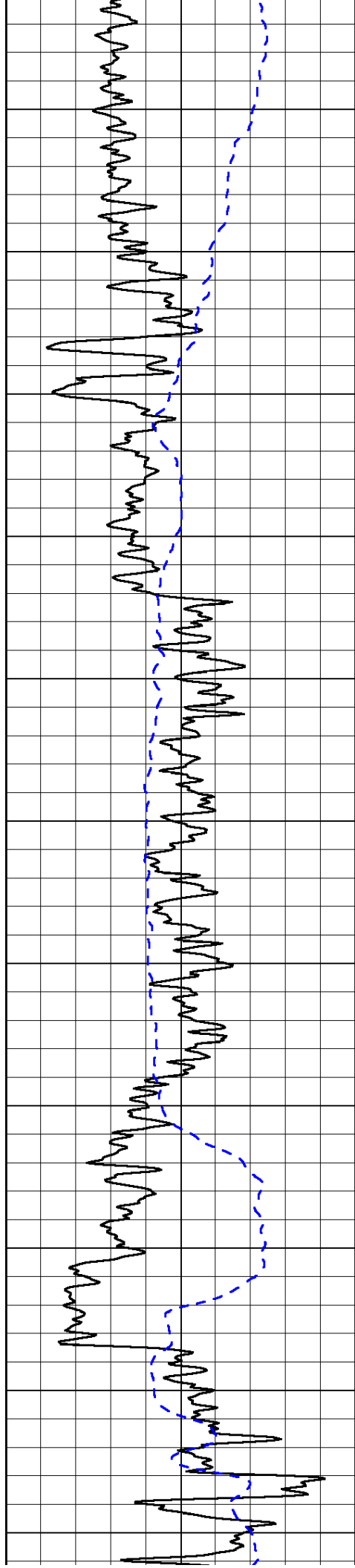
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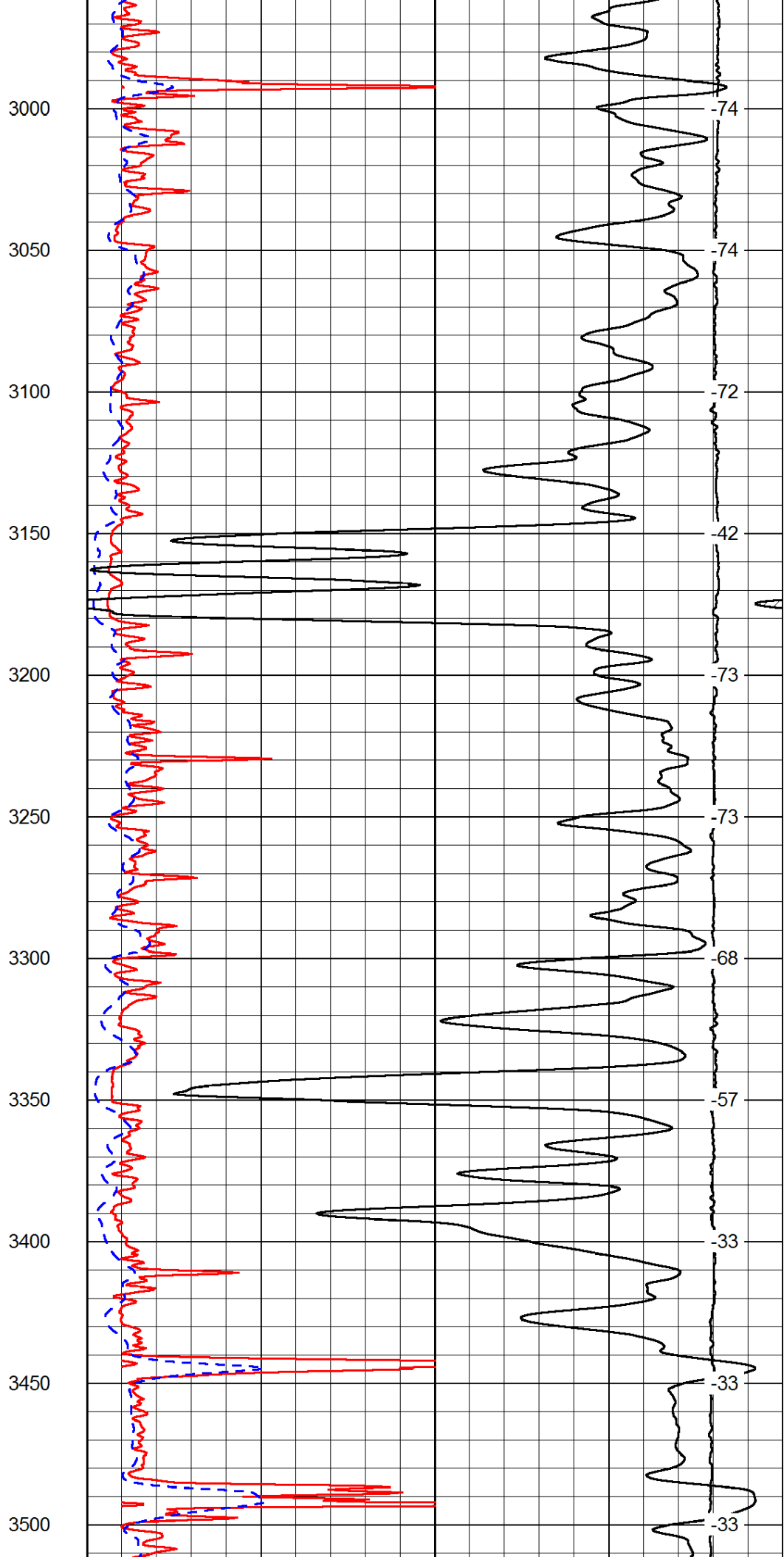
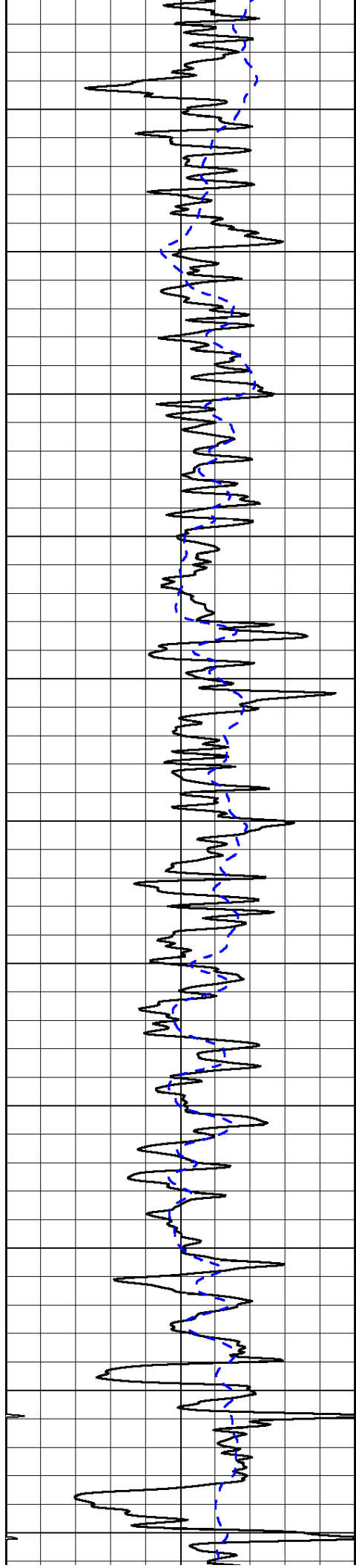


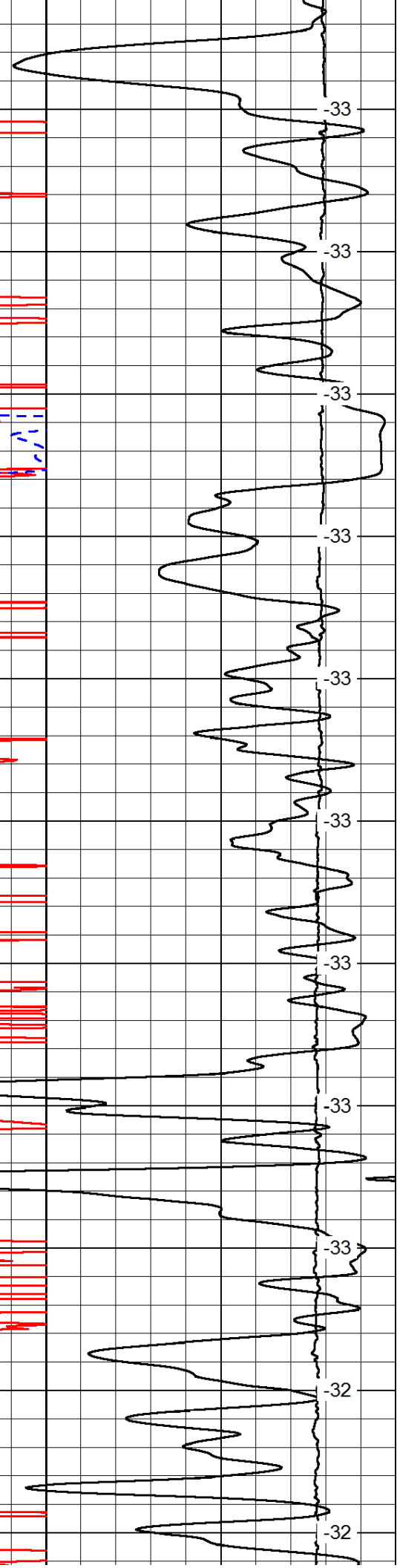
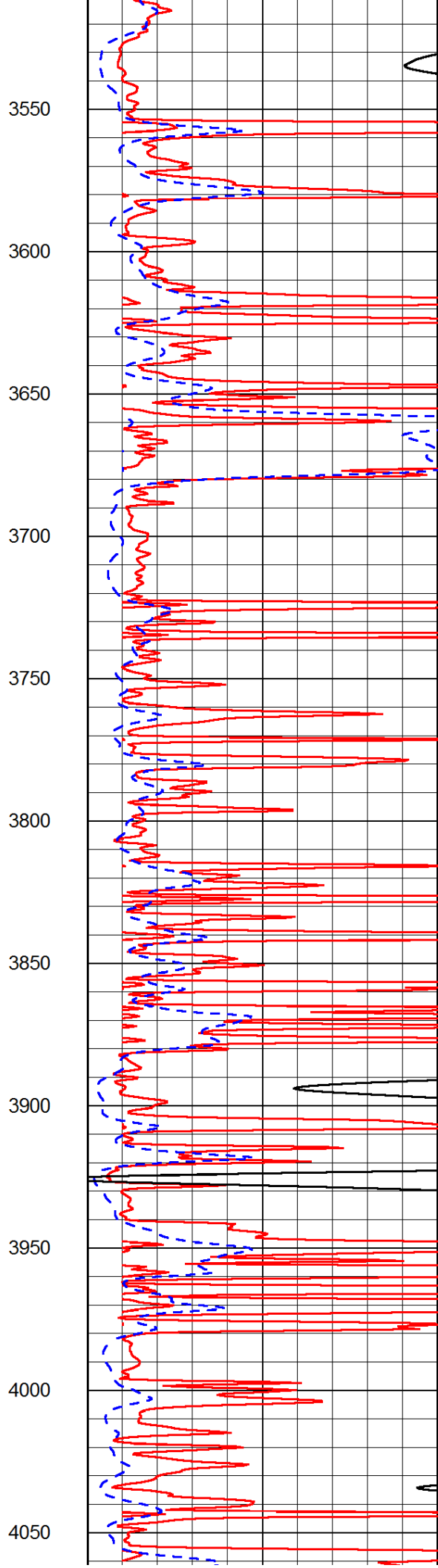
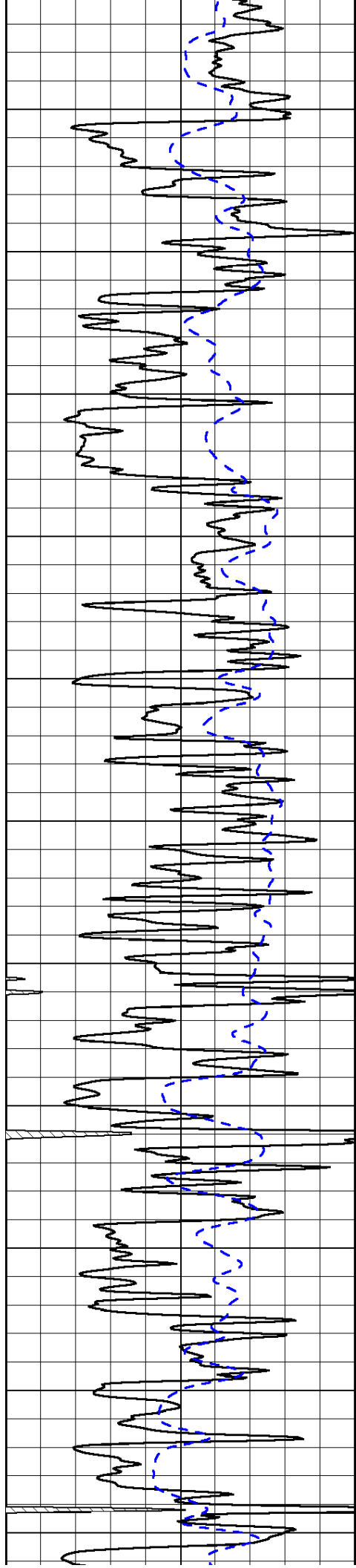
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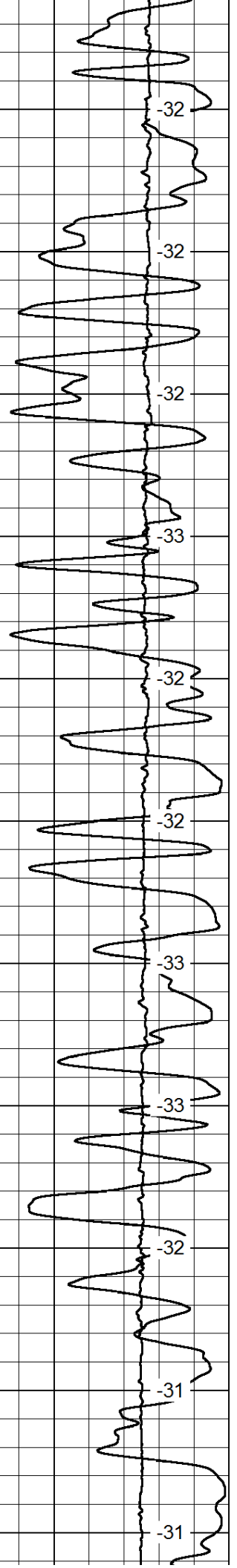
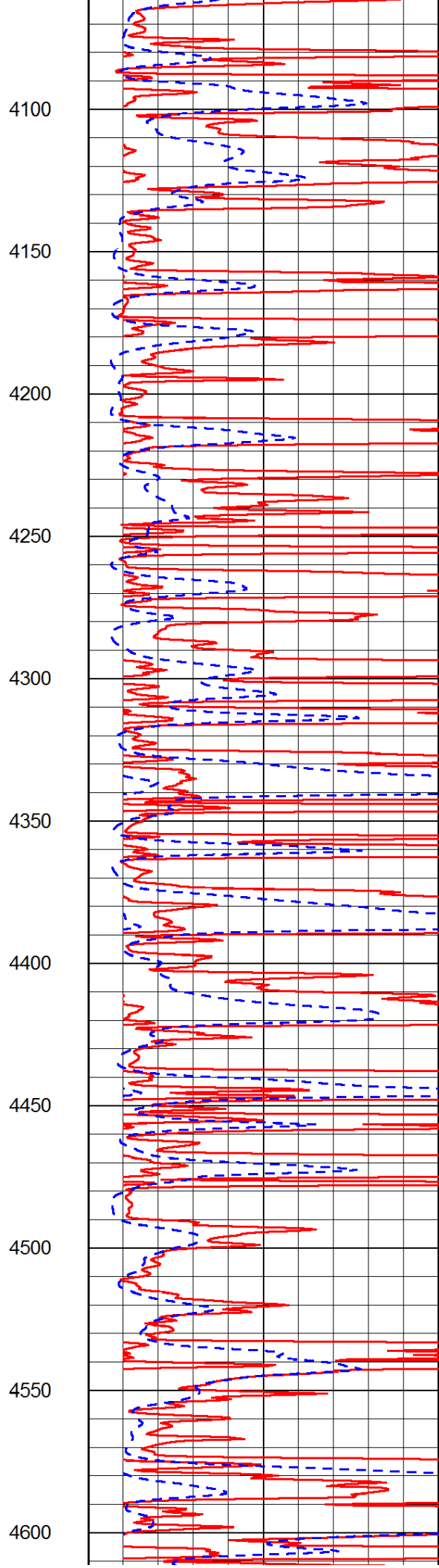
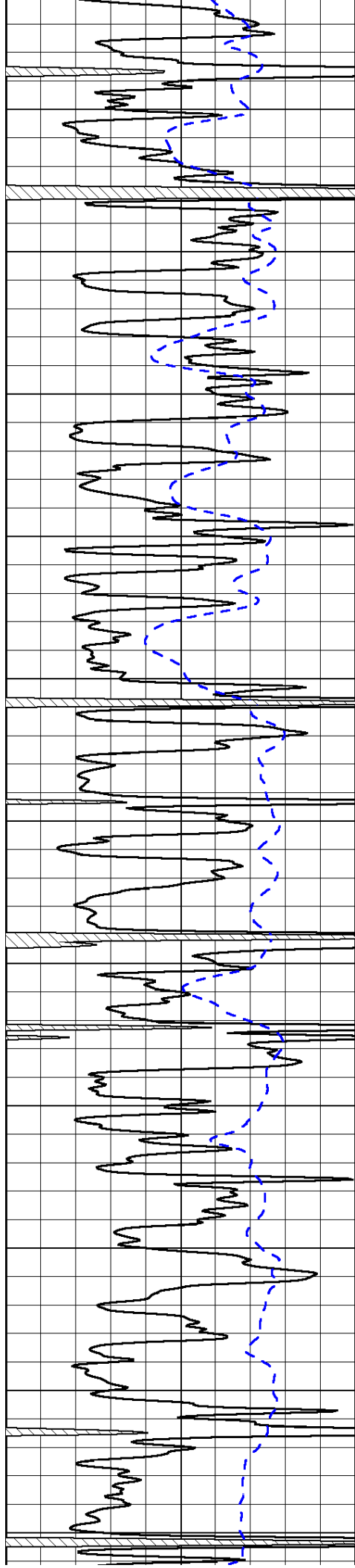


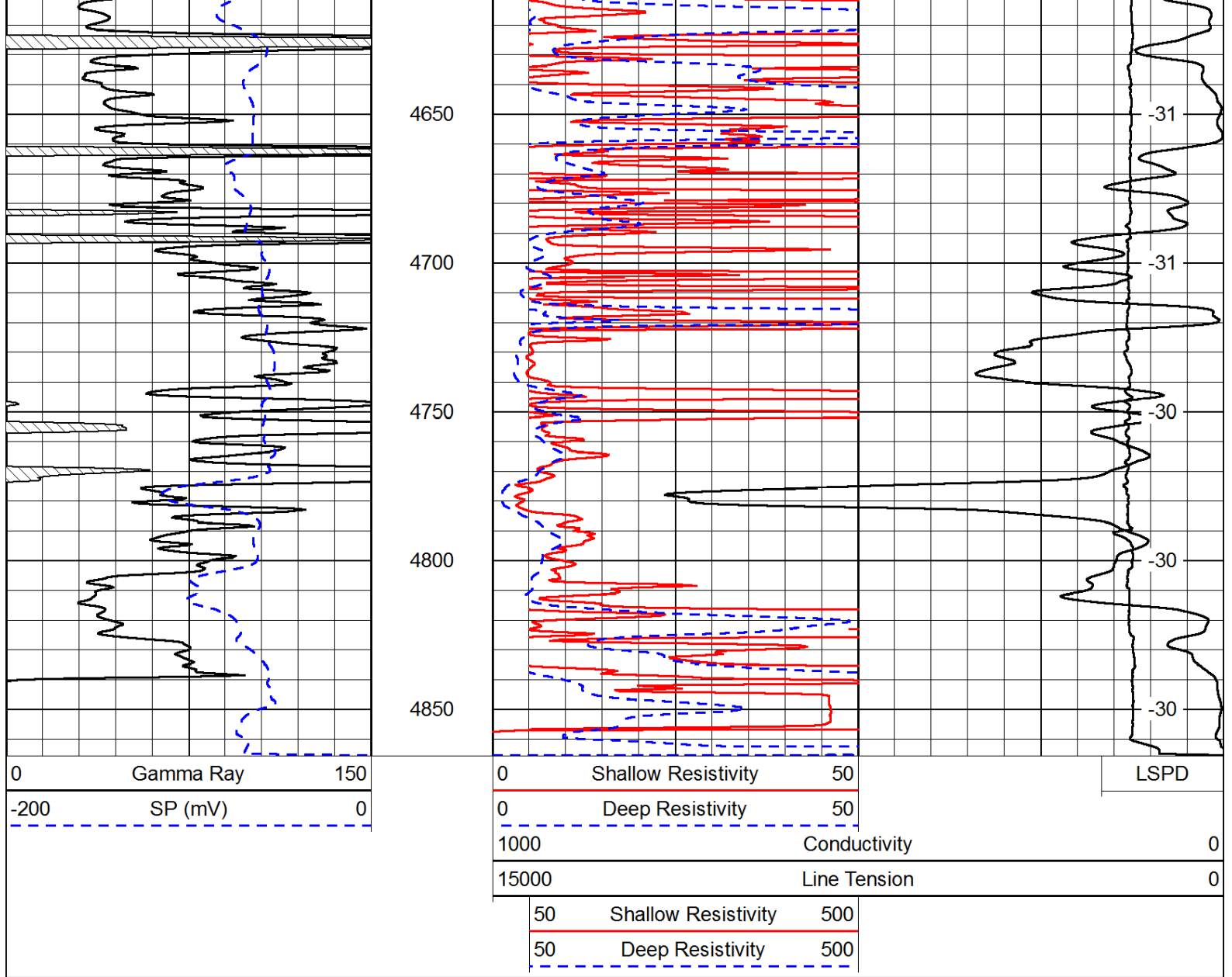




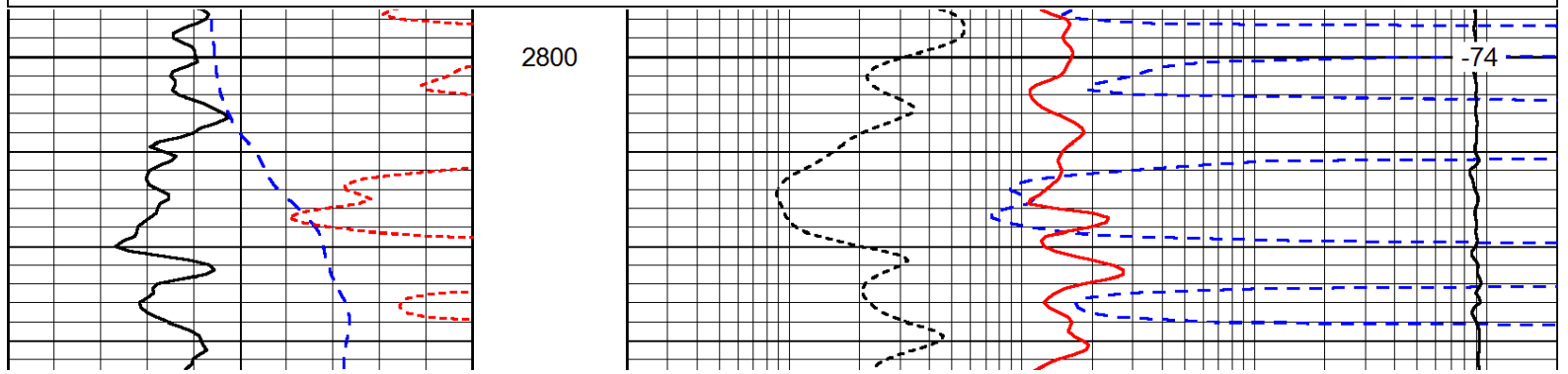
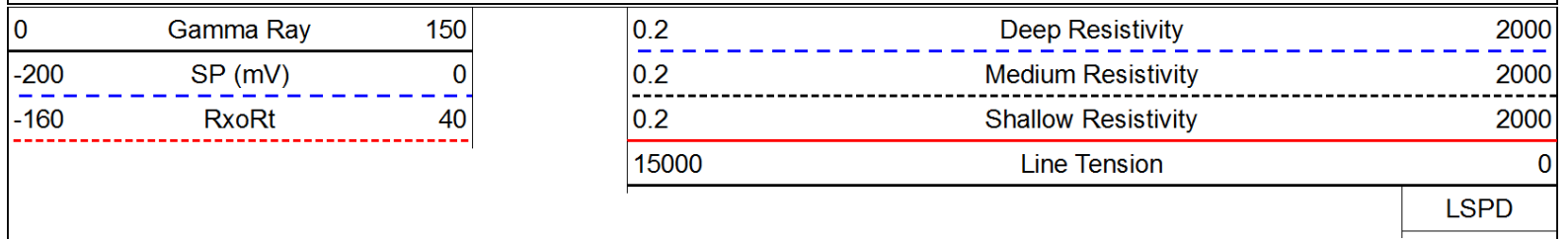


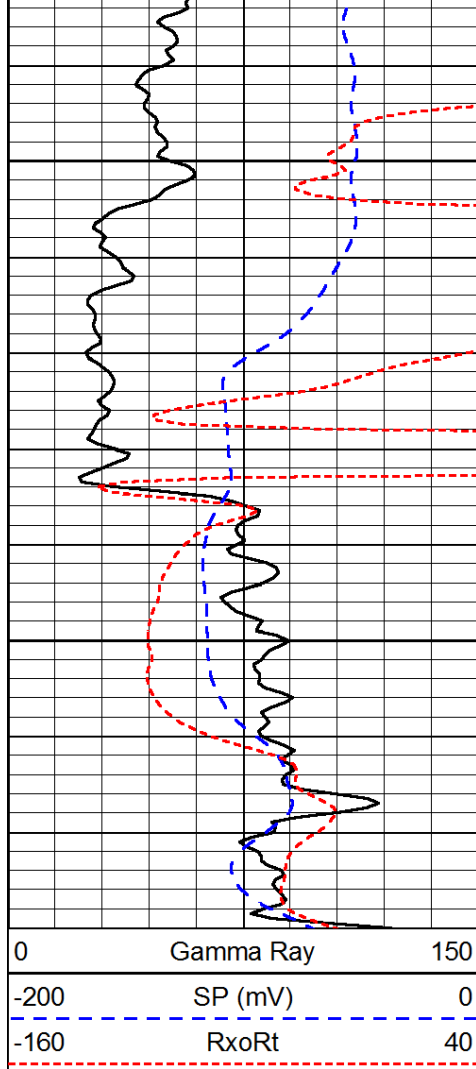






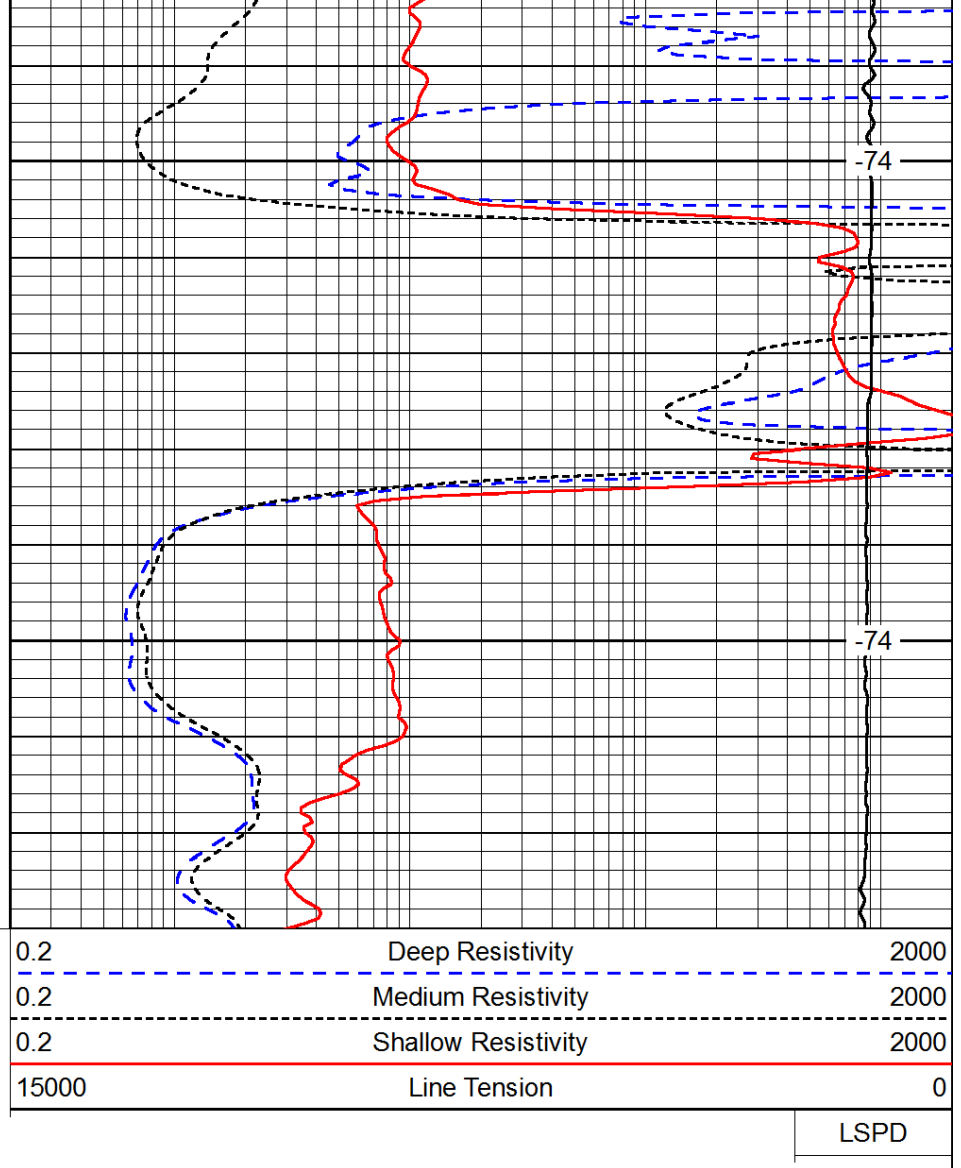
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 Presentation Format: dil  
 Dataset Creation: Mon May 05 06:35:39 2014  
 Charted by: Depth in Feet scaled 1:240



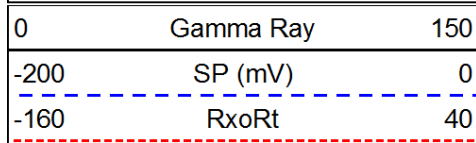


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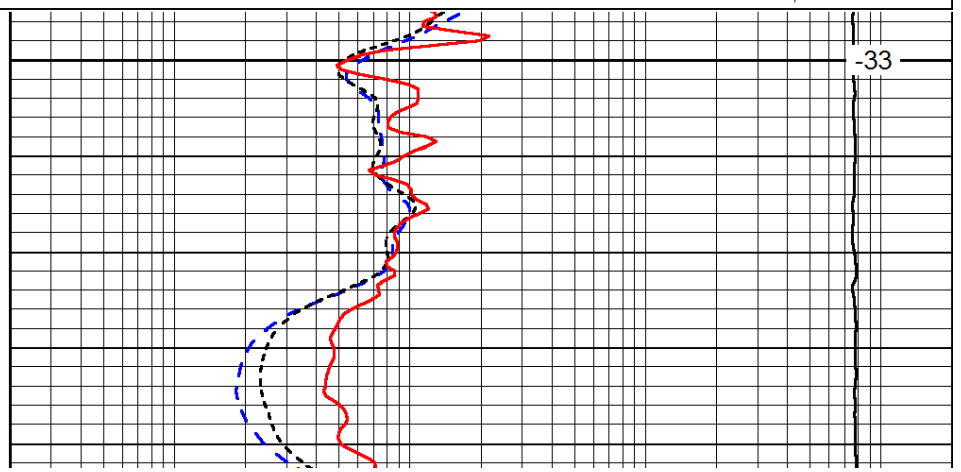
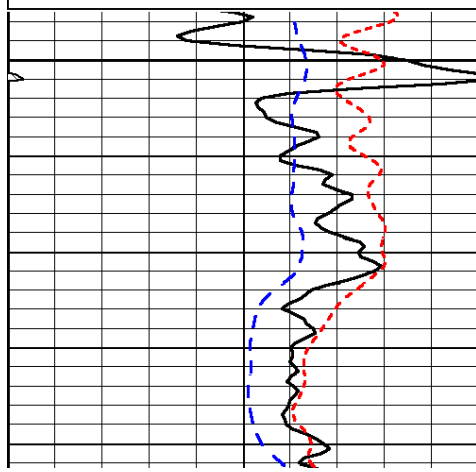
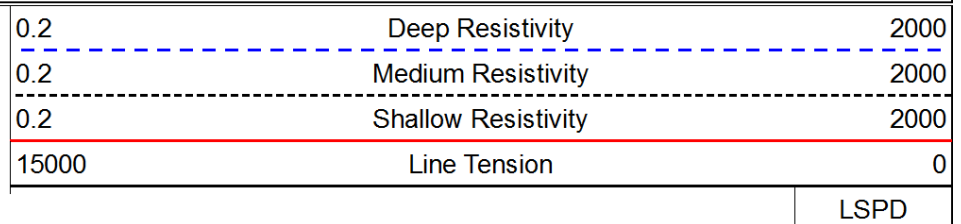
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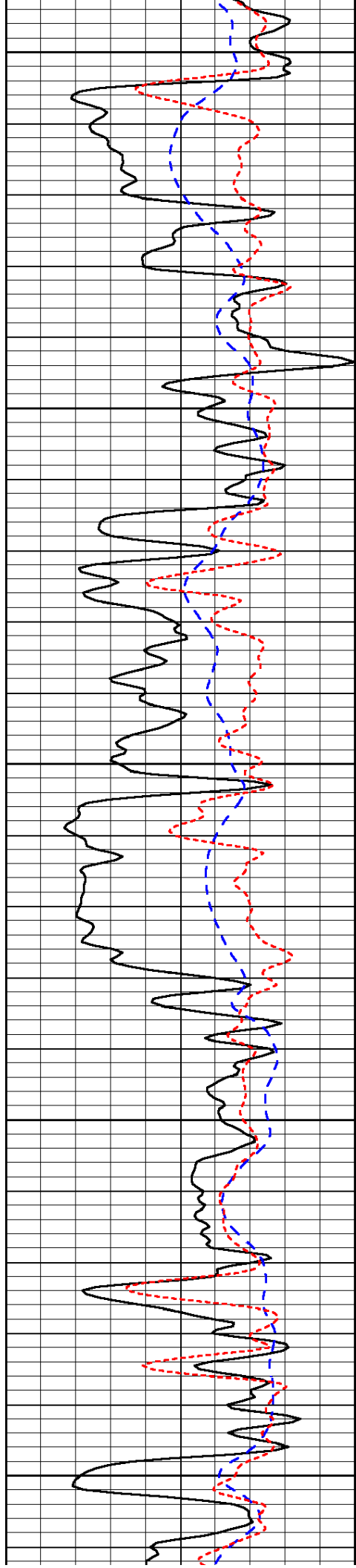


Database File: c:\warrior\data\val\_john #1-20\val\_john\_1-20hd.db  
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 Presentation Format: dil  
 Dataset Creation: Mon May 05 06:35:39 2014  
 Charted by: Depth in Feet scaled 1:240



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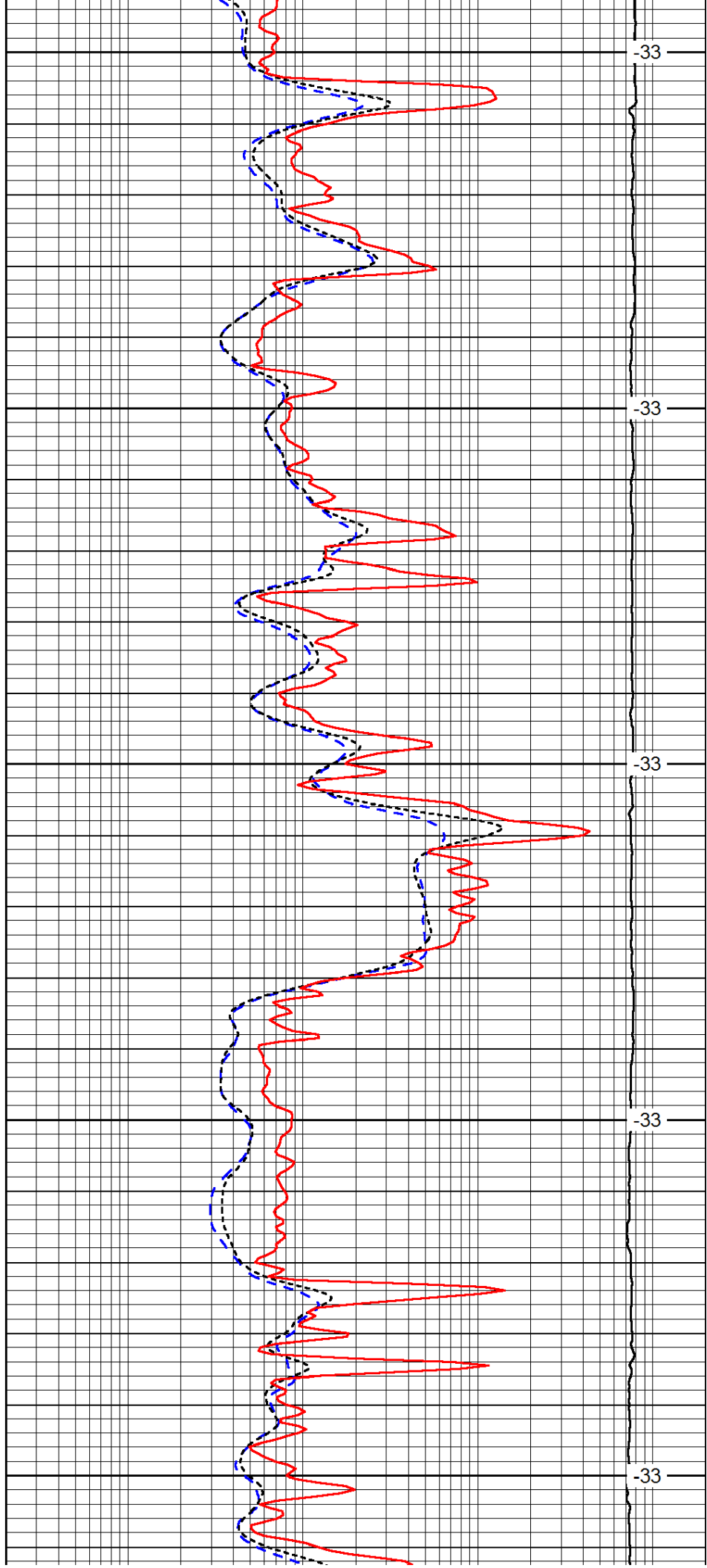
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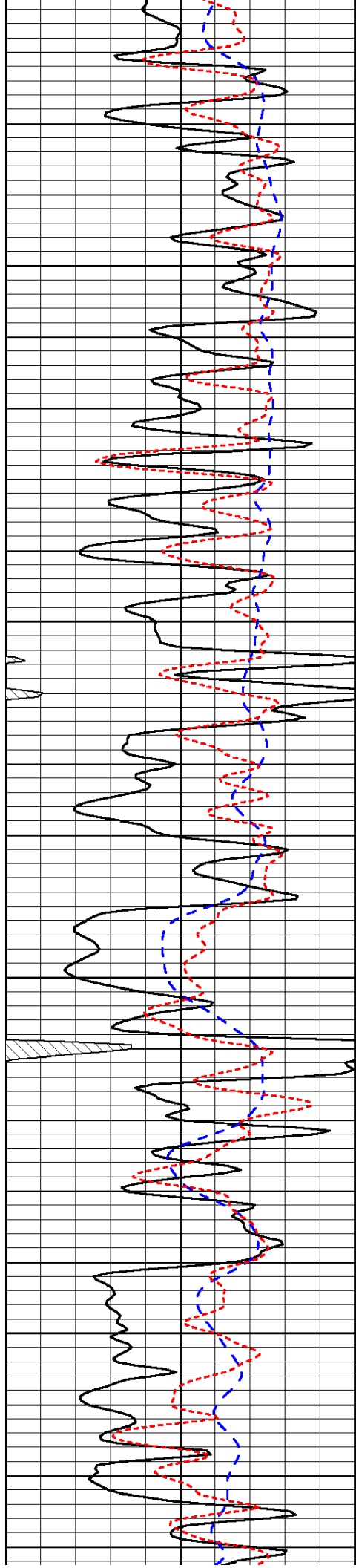
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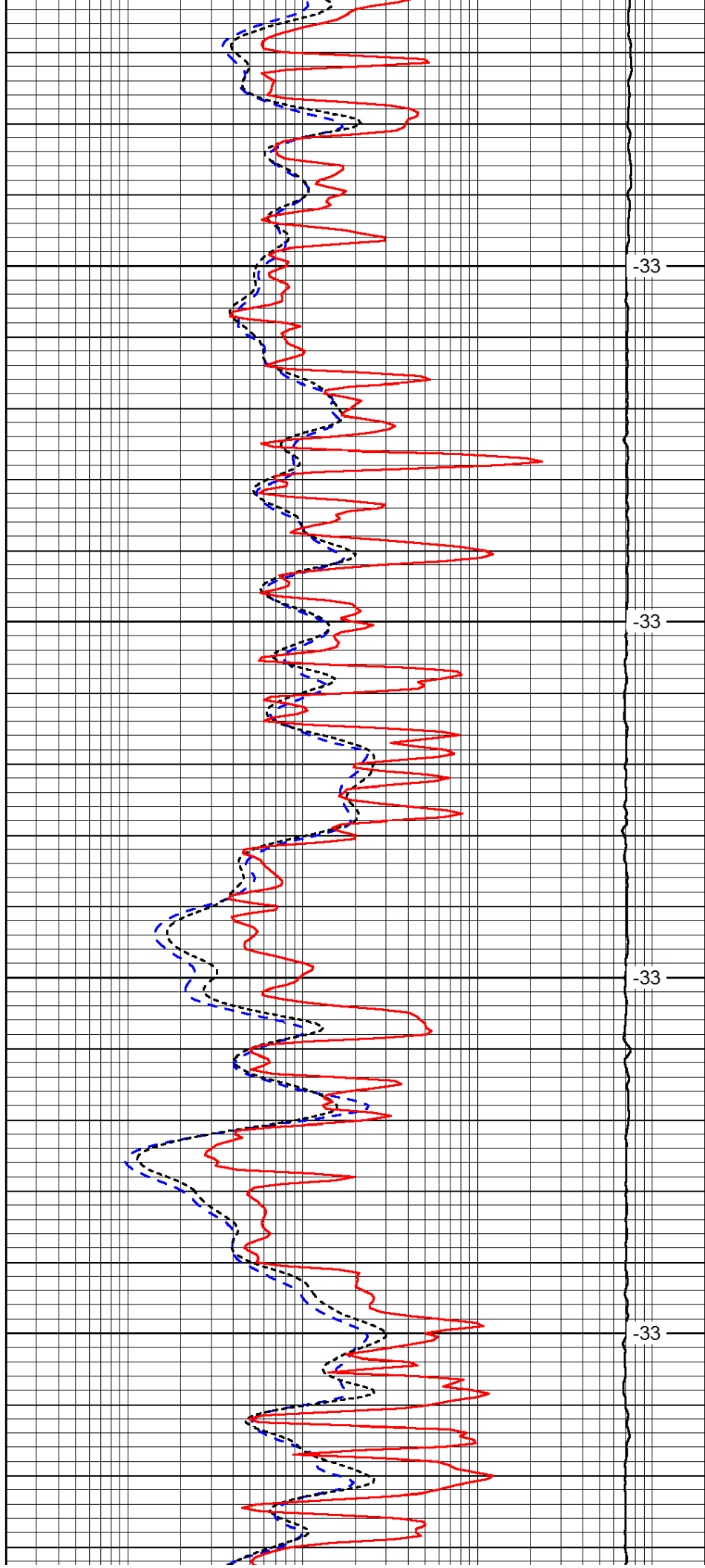


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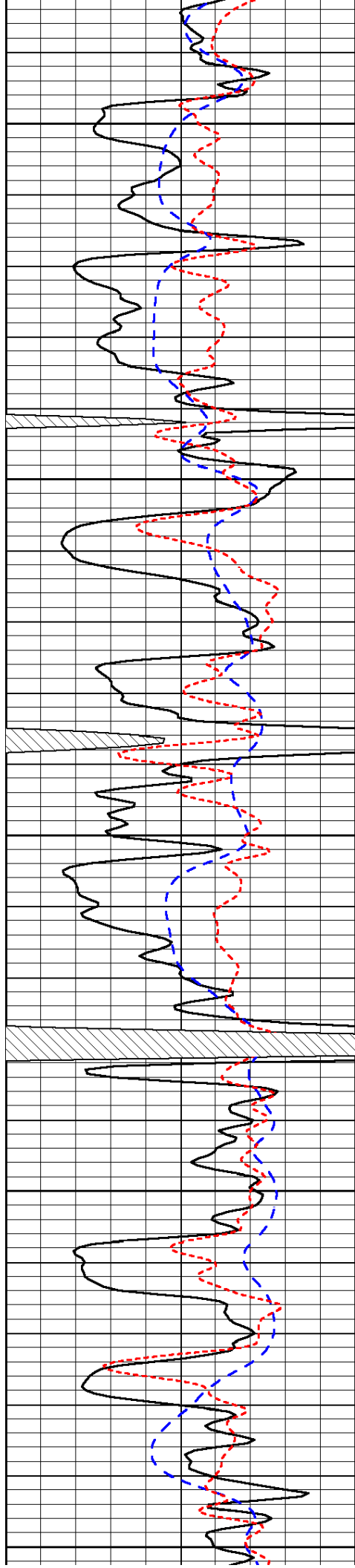


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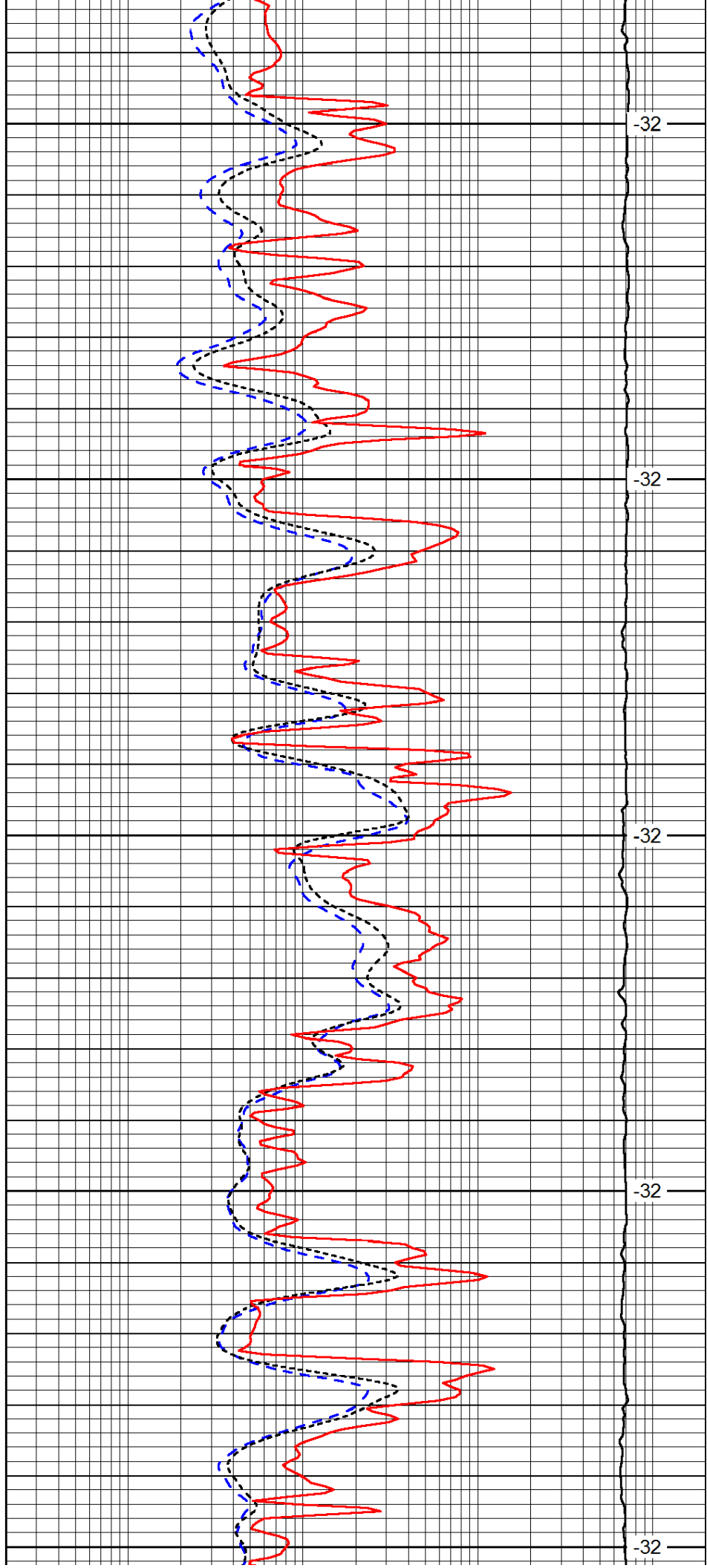
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4150

4200



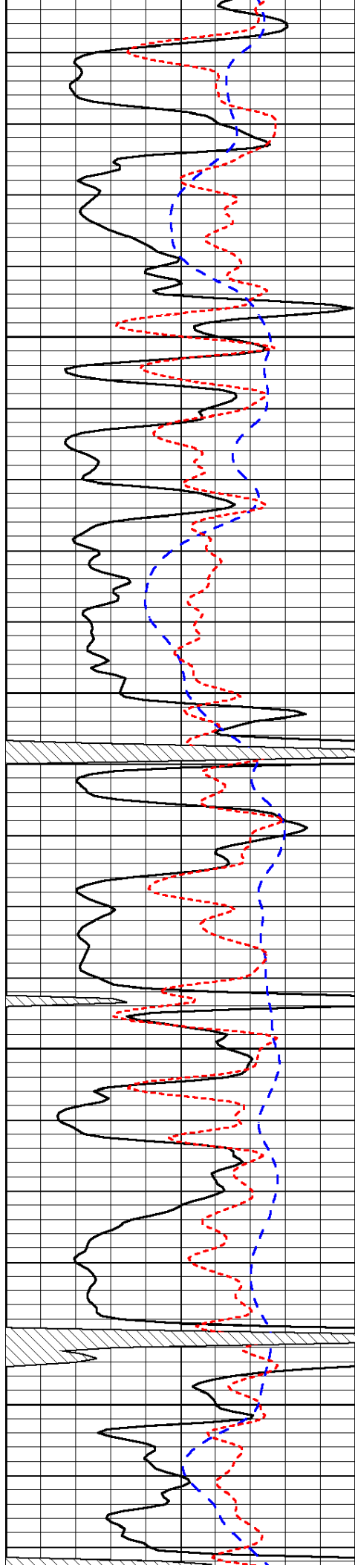
-32

-32

-32

-32

-32

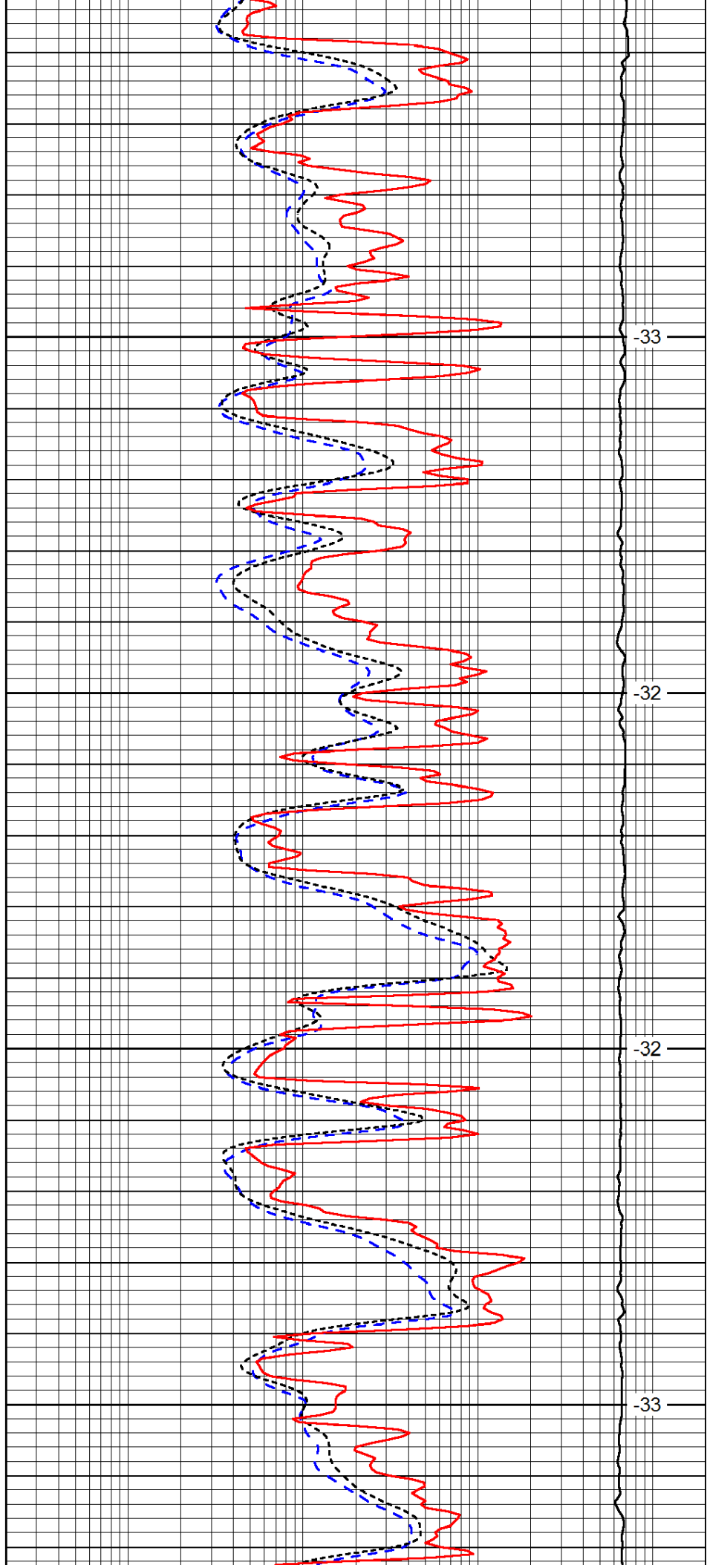


4250

4300

4350

4400

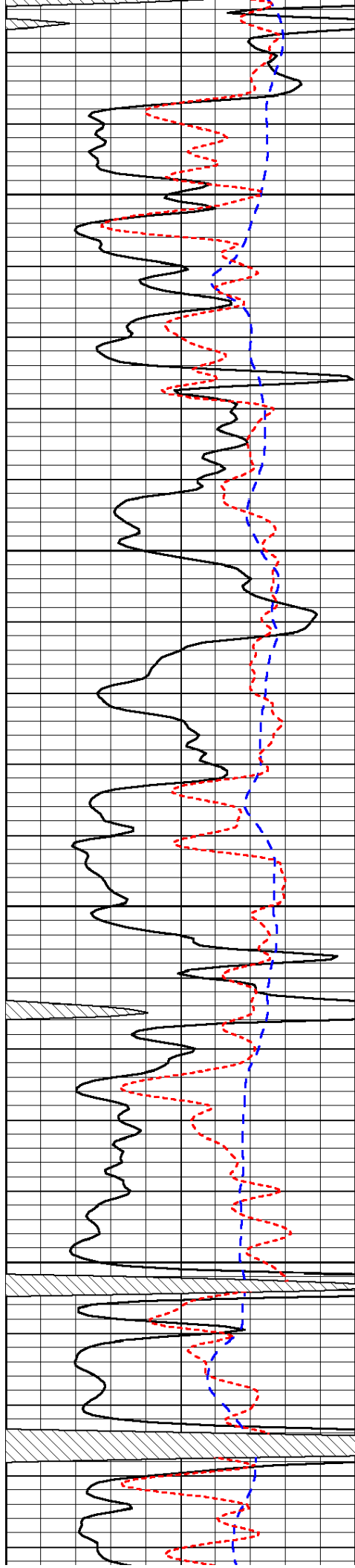


-33

-32

-32

-33

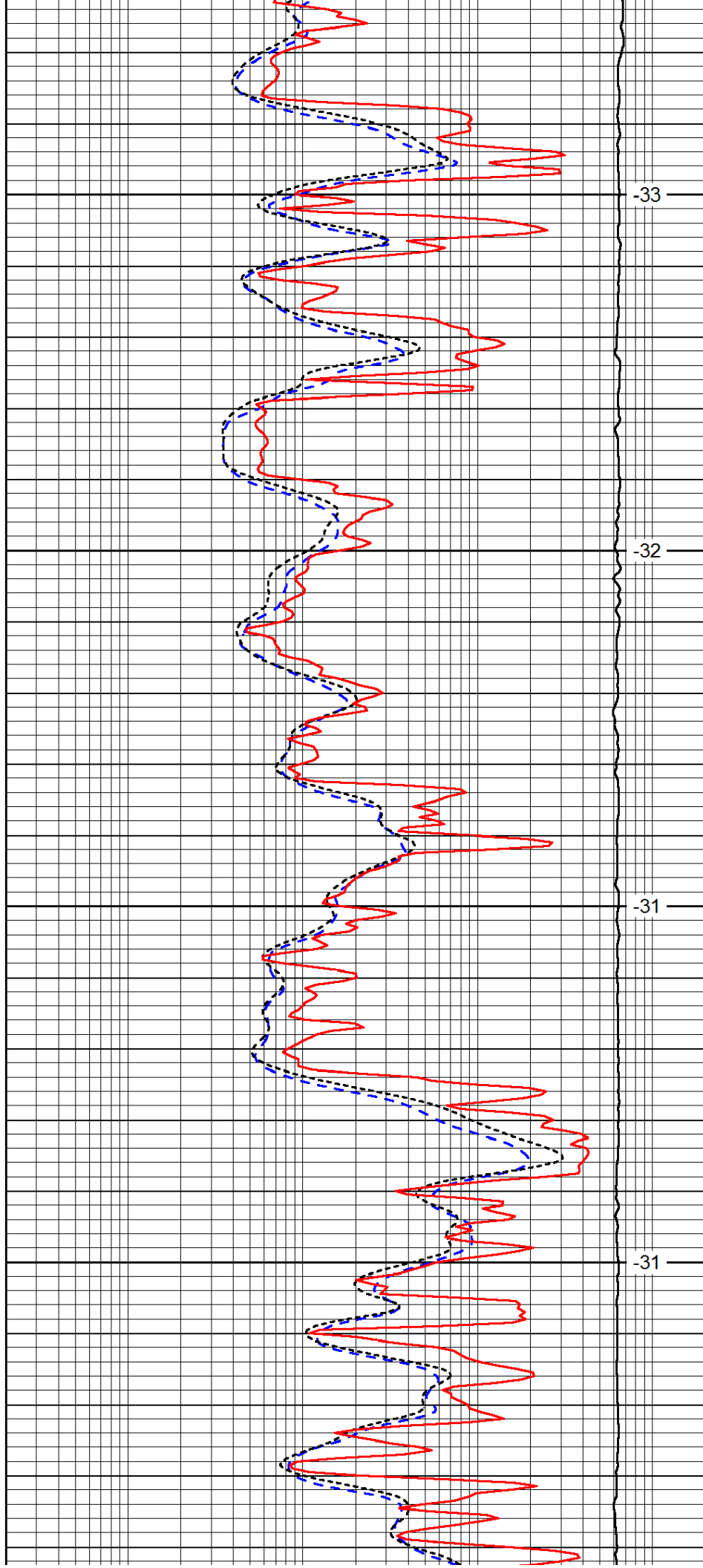


4450

4500

4550

4600



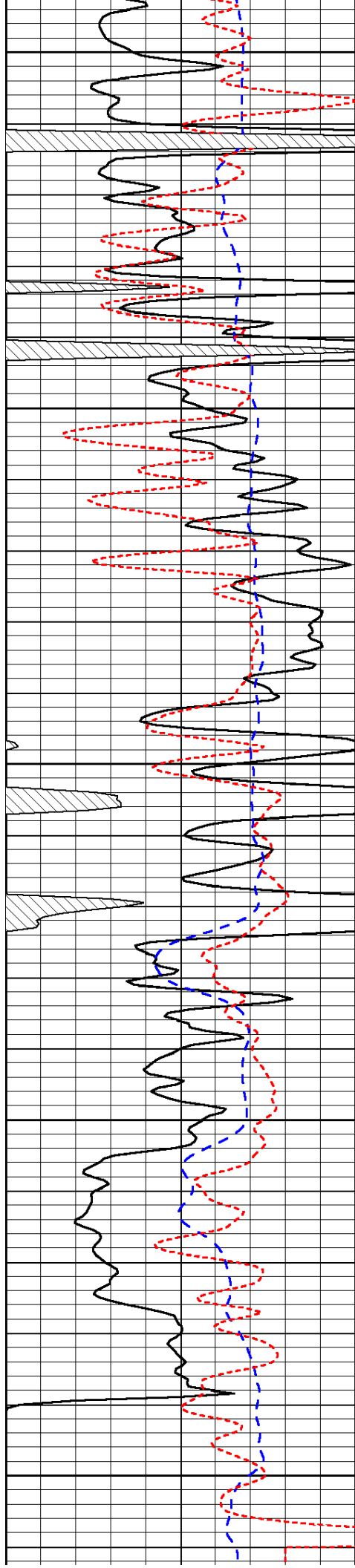
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-32

-31

-31





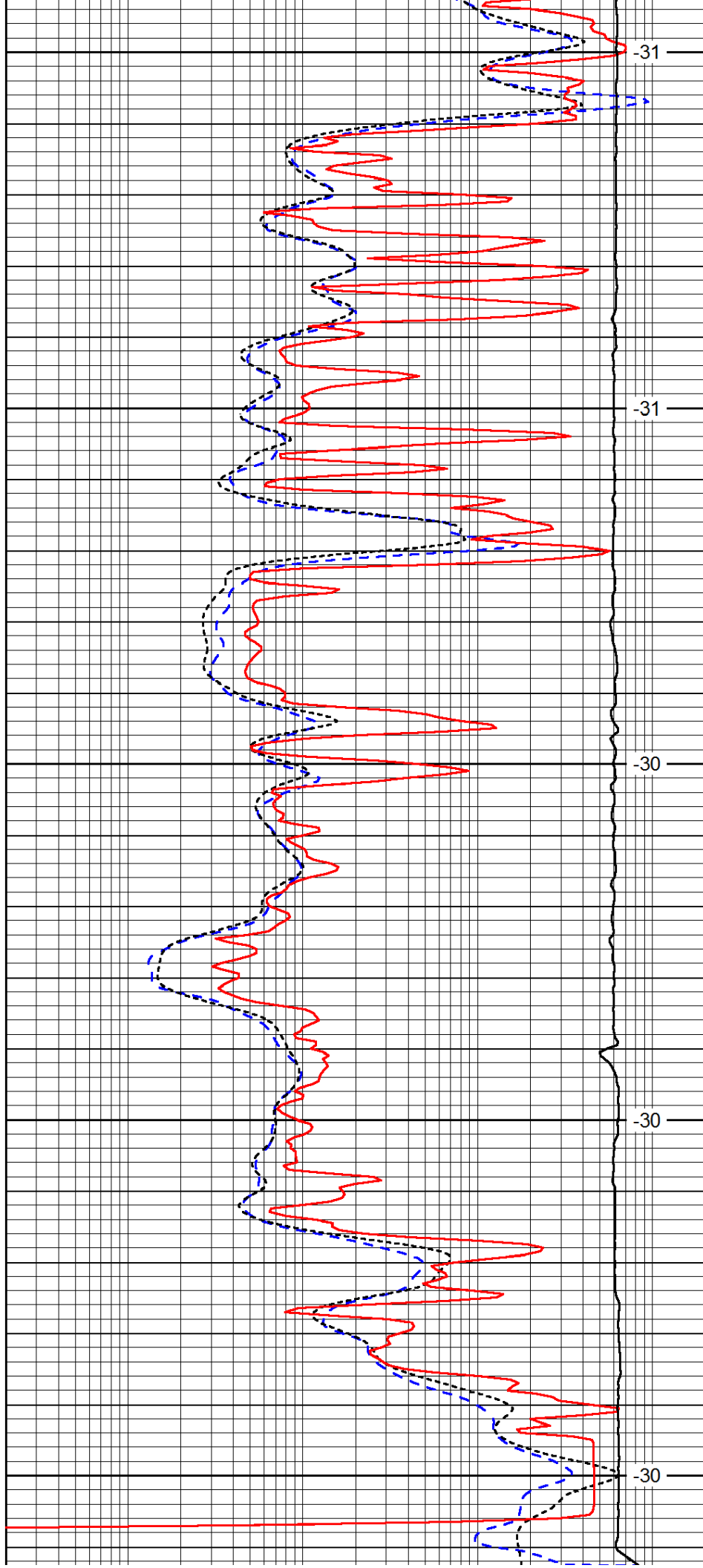
4650

4700

4750

4800

4850



-31

-31

-30

-30

-30

|      |           |     |
|------|-----------|-----|
| 0    | Gamma Ray | 150 |
| -200 | SP (mV)   | 0   |
| -160 | RxoRt     | 40  |
|      |           |     |

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