



## Dual Induction Log

Pioneer Energy Services

|                        |                                             |                          |     |  |           |           |                                       |  |  |  |
|------------------------|---------------------------------------------|--------------------------|-----|--|-----------|-----------|---------------------------------------|--|--|--|
| API No.                | Company    Downing-Nelson Oil Company, Inc. |                          |     |  |           |           |                                       |  |  |  |
|                        | Well    Leta Faye # 1-20                    |                          |     |  |           |           |                                       |  |  |  |
|                        | Field    Wildcat                            |                          |     |  |           |           |                                       |  |  |  |
|                        | County                                      | Pawnee                   |     |  | State     | Kansas    |                                       |  |  |  |
|                        | Location                                    | 565' FNL & 1595' FEL     |     |  |           |           | Other Services<br>CNL/CDL<br>MEL/BHCS |  |  |  |
|                        | Sec: 20                                     | Twp: 23 S                |     |  | Rge: 18 W | Elevation |                                       |  |  |  |
| Permanent Datum        | Ground Level                                | Elevation 2137           |     |  |           |           | K.B. 2150                             |  |  |  |
| Log Measured From      | Kelly Bushing                               | 13 Ft. Above Perm. Datum |     |  |           |           | D.F. 2137                             |  |  |  |
| Drilling Measured From | Kelly Bushing                               |                          |     |  |           |           | G.L. 2137                             |  |  |  |
| Date                   | 5/27/2014                                   |                          |     |  |           |           |                                       |  |  |  |
| Run Number             | One                                         |                          |     |  |           |           |                                       |  |  |  |
| Depth Driller          | 4880                                        |                          |     |  |           |           |                                       |  |  |  |
| Depth Logger           | 4879                                        |                          |     |  |           |           |                                       |  |  |  |
| Bottom Logged Interval | 4878                                        |                          |     |  |           |           |                                       |  |  |  |
| Top Log Interval       | 1200                                        |                          |     |  |           |           |                                       |  |  |  |
| Casing Driller         | 8.625 @ 1222                                |                          |     |  |           |           |                                       |  |  |  |
| Casing Logger          | 1222                                        |                          |     |  |           |           |                                       |  |  |  |
| Bit Size               | 7.875                                       |                          |     |  |           |           |                                       |  |  |  |
| Type Fluid in Hole     | Chemical                                    |                          |     |  |           |           |                                       |  |  |  |
| Salinity,ppm CL        | 6000                                        |                          |     |  |           |           |                                       |  |  |  |
| Density / Viscosity    | 9.3                                         |                          | 54  |  |           |           |                                       |  |  |  |
| pH / Fluid Loss        | 8.5                                         |                          | 8.0 |  |           |           |                                       |  |  |  |
| Source of Sample       | Flowline                                    |                          |     |  |           |           |                                       |  |  |  |
| Rm @ Meas. Temp        | 0.75 @ 68                                   |                          |     |  |           |           |                                       |  |  |  |
| Rmf @ Meas. Temp       | 0.56 @ 68                                   |                          |     |  |           |           |                                       |  |  |  |
| Rmc @ Meas. Temp       | 1.01 @ 68                                   |                          |     |  |           |           |                                       |  |  |  |
| Source of Rmf / Rmc    | Charts                                      |                          |     |  |           |           |                                       |  |  |  |
| Rm @ BHT               | 0.41 @ 125                                  |                          |     |  |           |           |                                       |  |  |  |
| Operating Rig Time     | 5 Hours                                     |                          |     |  |           |           |                                       |  |  |  |
| Max Rec. Temp. F       | 125                                         |                          |     |  |           |           |                                       |  |  |  |
| Equipment Number       | 17                                          |                          |     |  |           |           |                                       |  |  |  |
| Location               | Hays                                        |                          |     |  |           |           |                                       |  |  |  |
| Recorded By            | Y. Ruiz                                     |                          |     |  |           |           |                                       |  |  |  |
| Witnessed By           | Marc Downing                                |                          |     |  |           |           |                                       |  |  |  |

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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

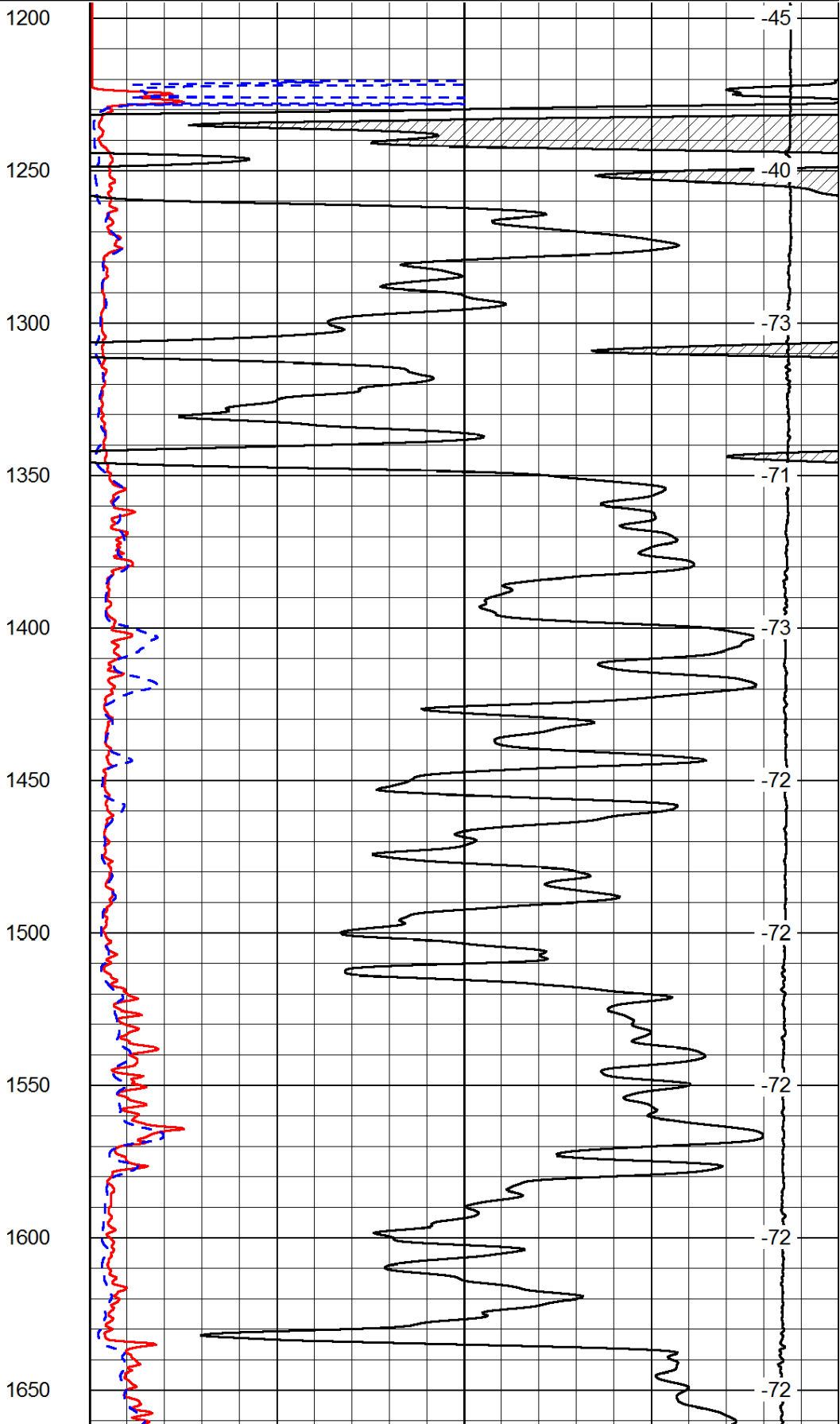
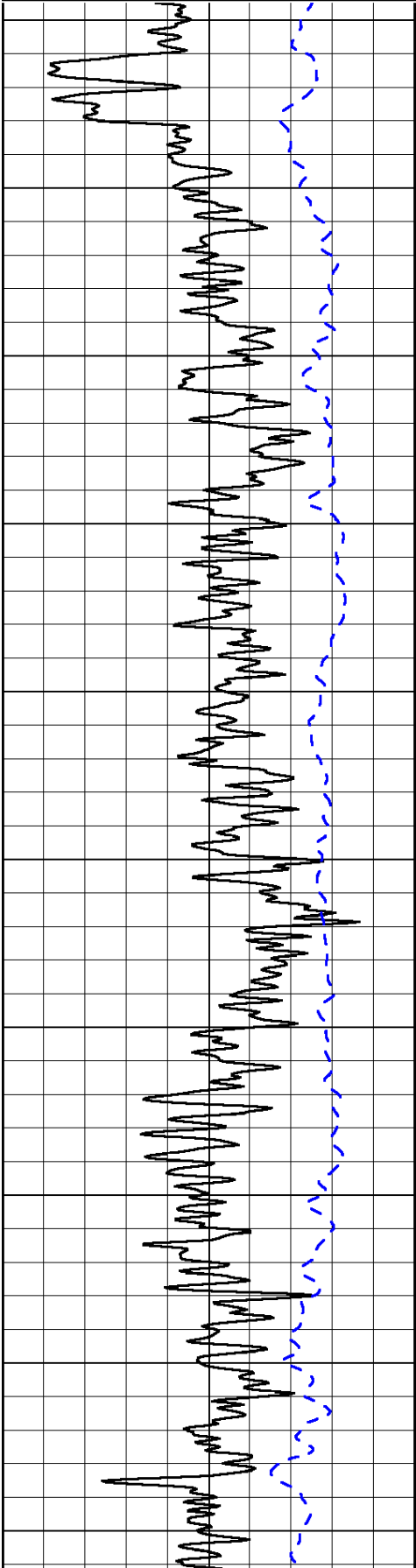
Thank you for using Pioneer Energy Services  
www.pioneerres.com  
785 625 3858  
Hwy 183 & Hwy 1-56,  
South to D Rd, 1/2 West,  
South into

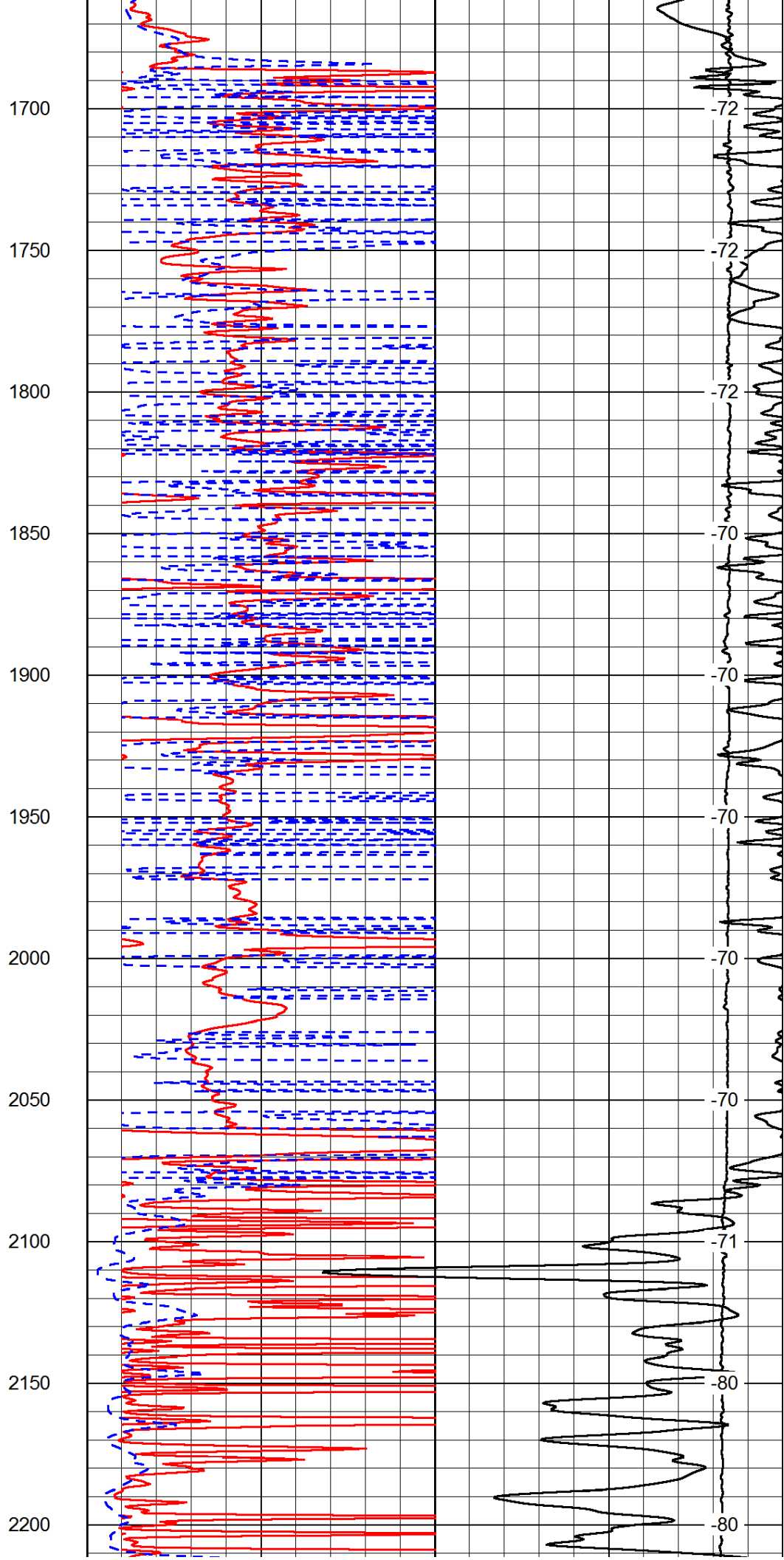
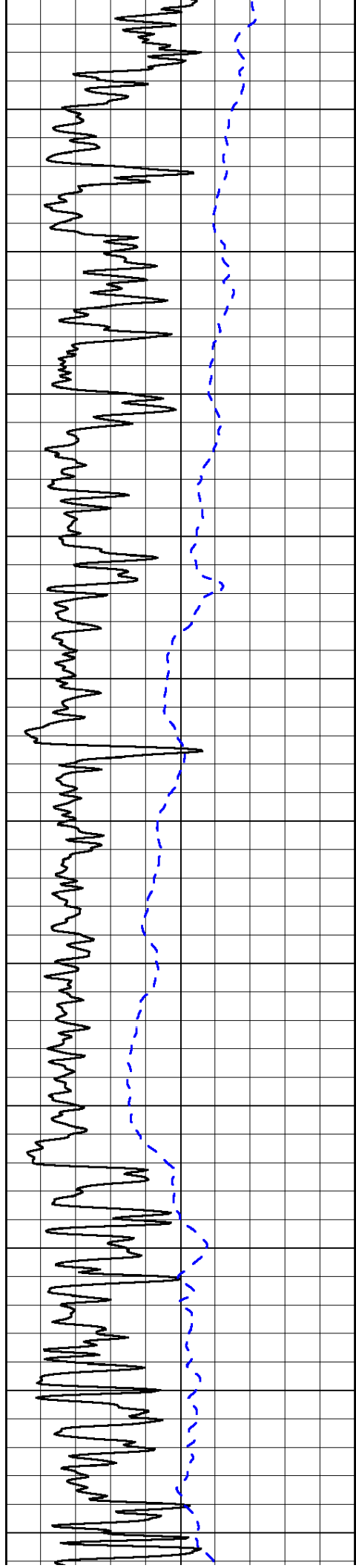
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Dataset Creation: Tue May 27 14:40:26 2014  
Charted by: Depth in Feet scaled 1:600

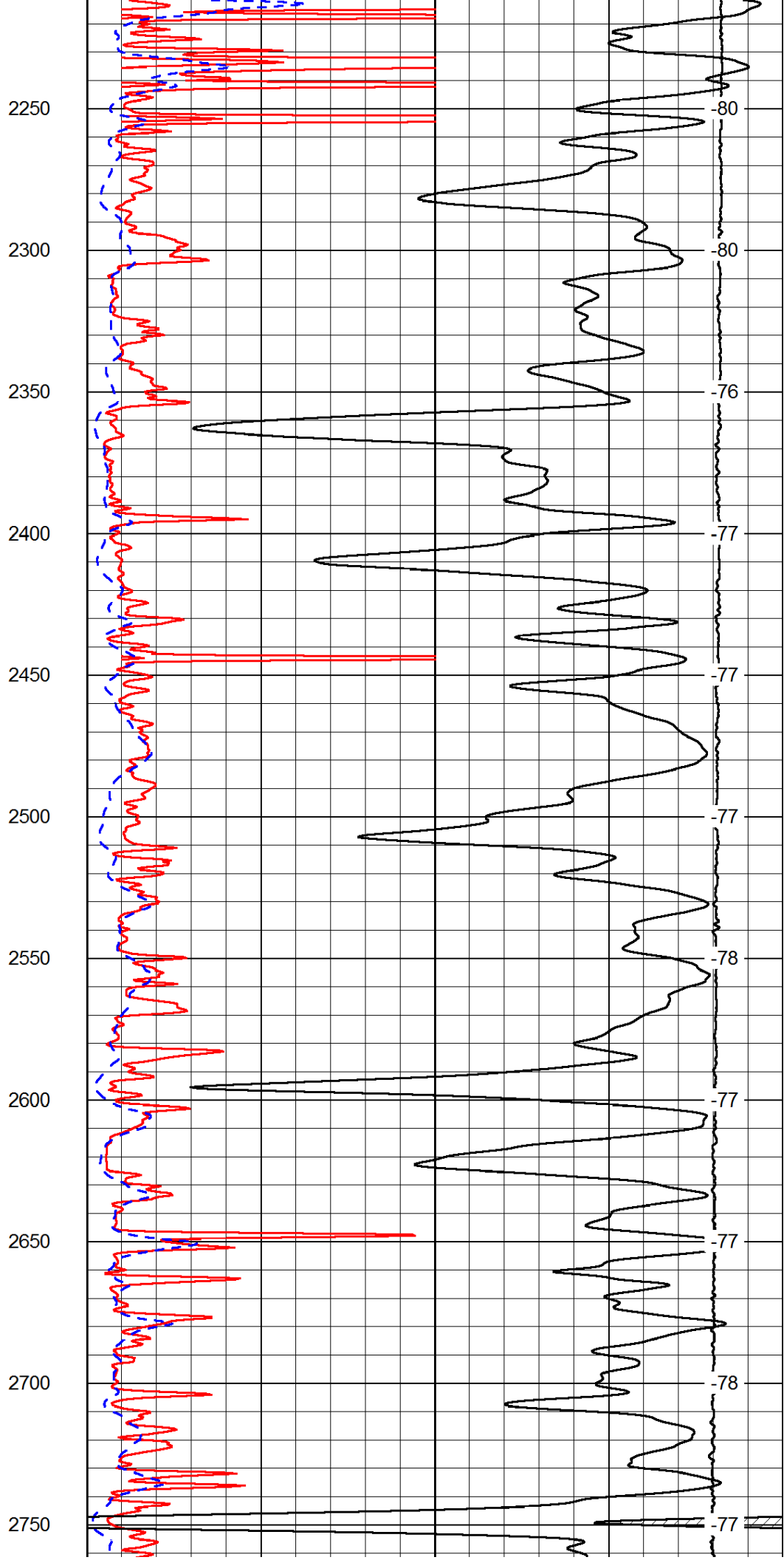
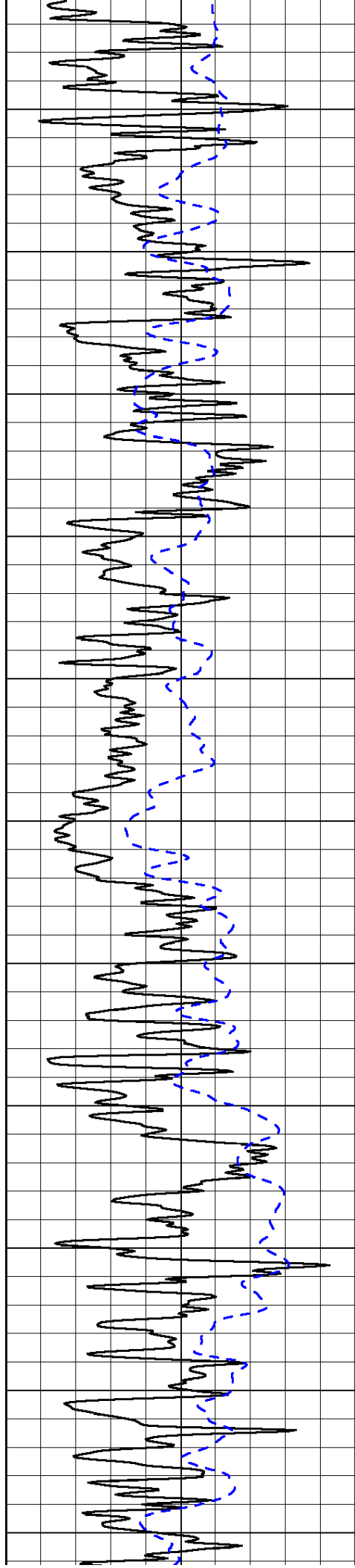
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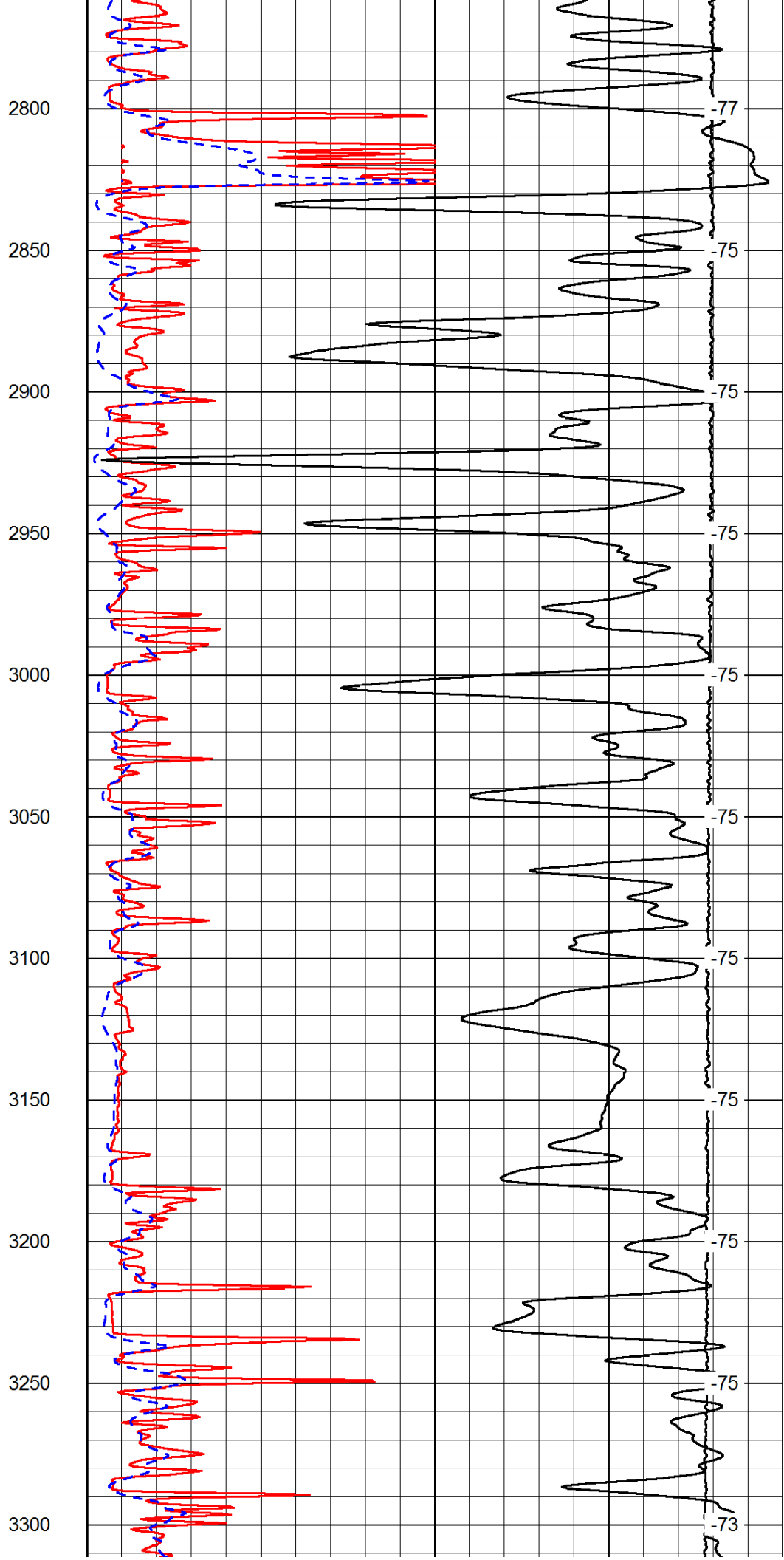
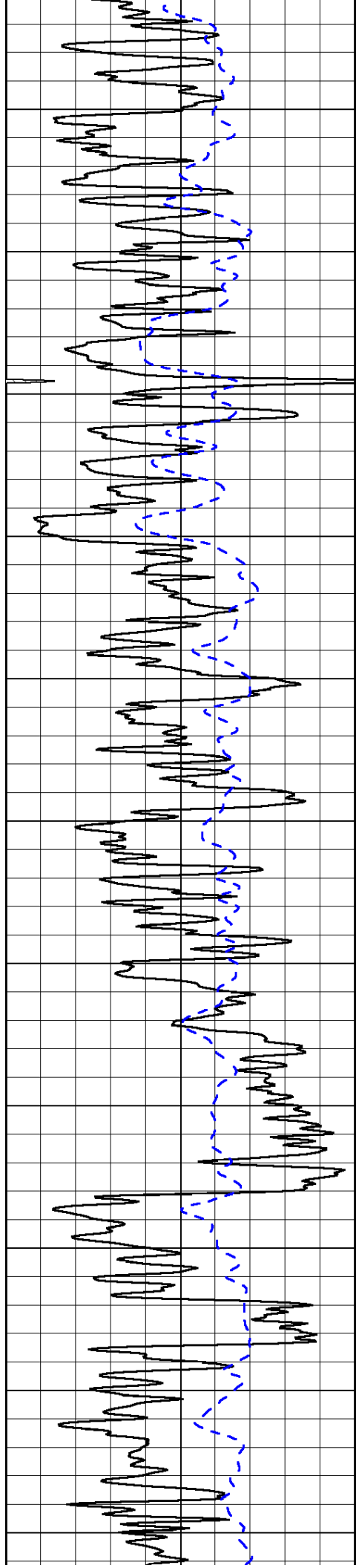
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|------|-----------|-----|
| 0    | Gamma Ray | 150 |
| -200 | SP (mV)   | 0   |

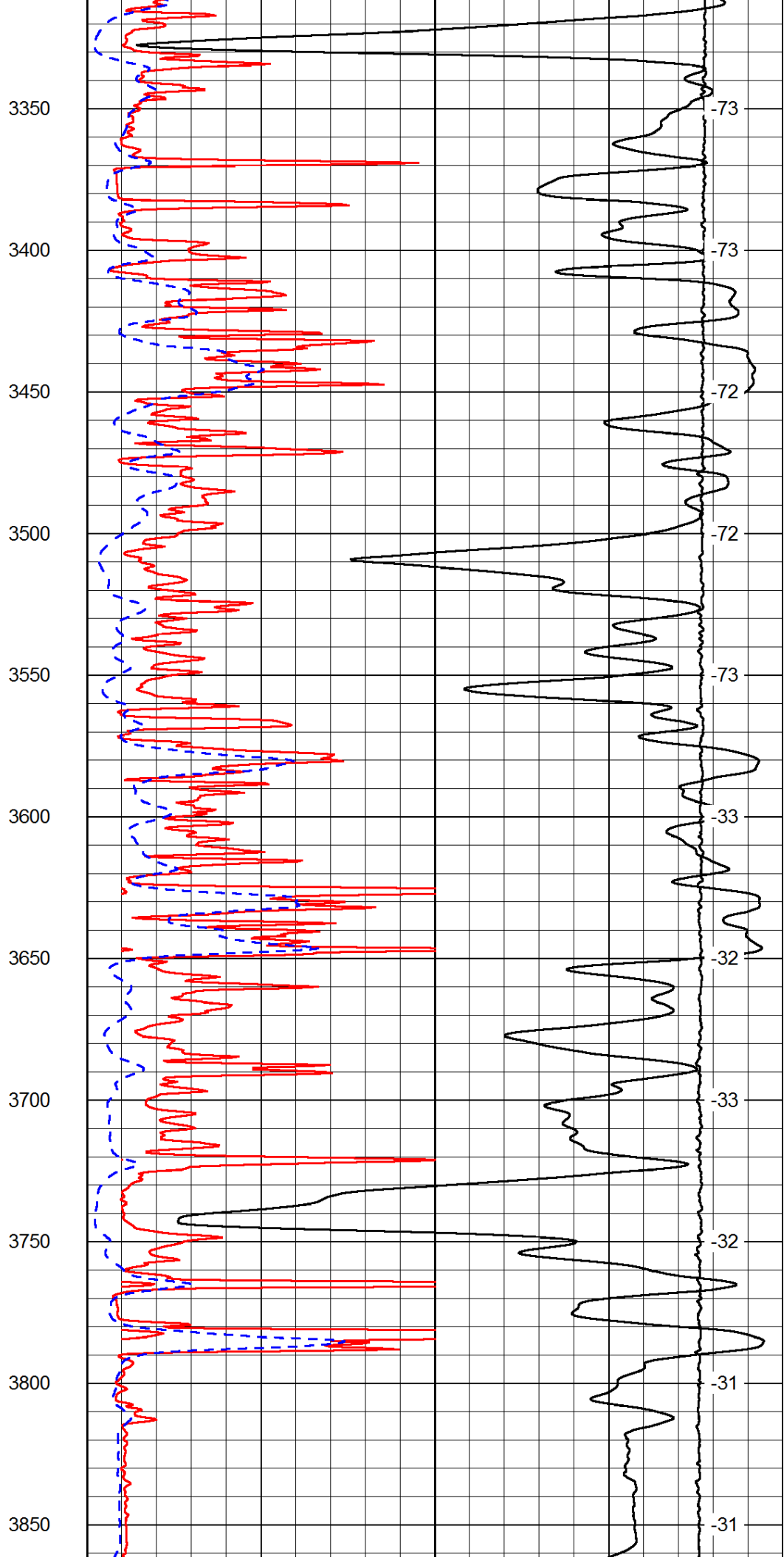
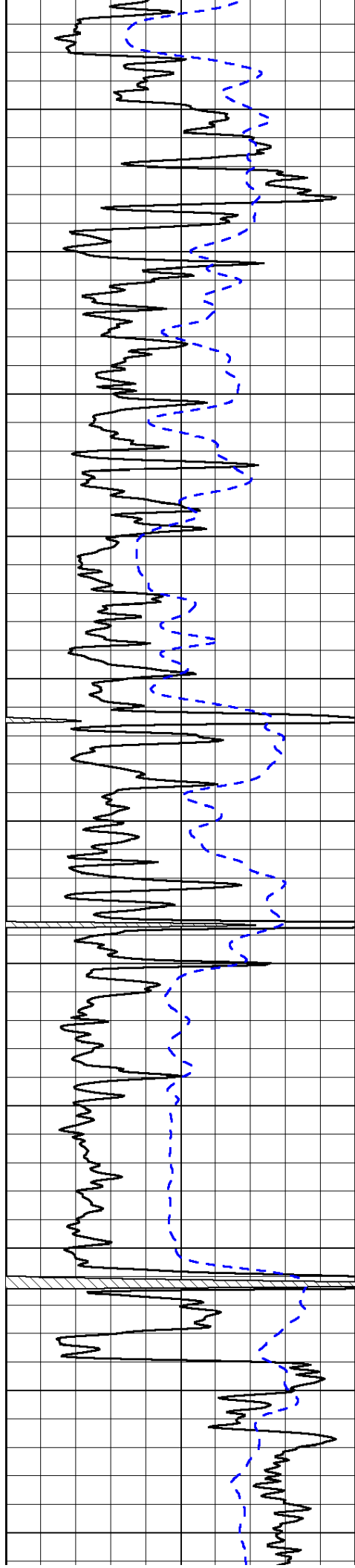
|       |                     |     |      |
|-------|---------------------|-----|------|
| 0     | Shallow Resistivity | 50  | LSPD |
| 0     | Deep Resistivity    | 50  |      |
| 1000  | Conductivity        |     | 0    |
| 15000 | Line Tension        |     | 0    |
| 50    | Shallow Resistivity |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

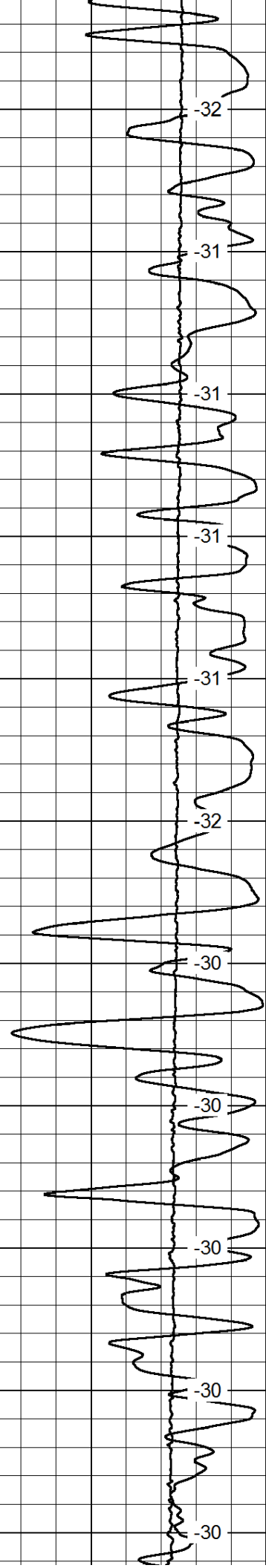
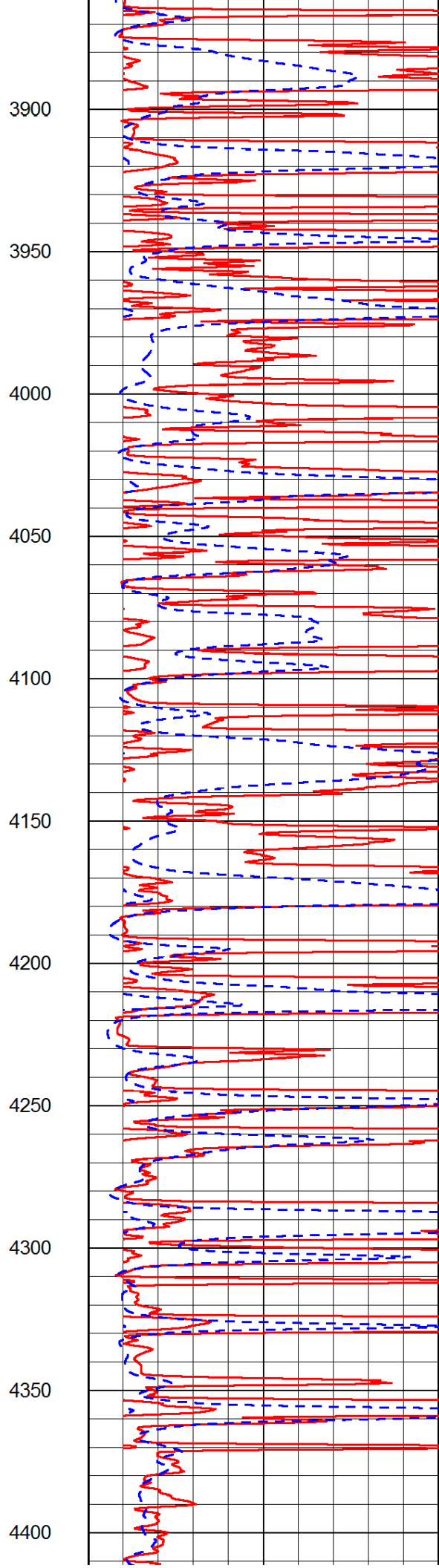
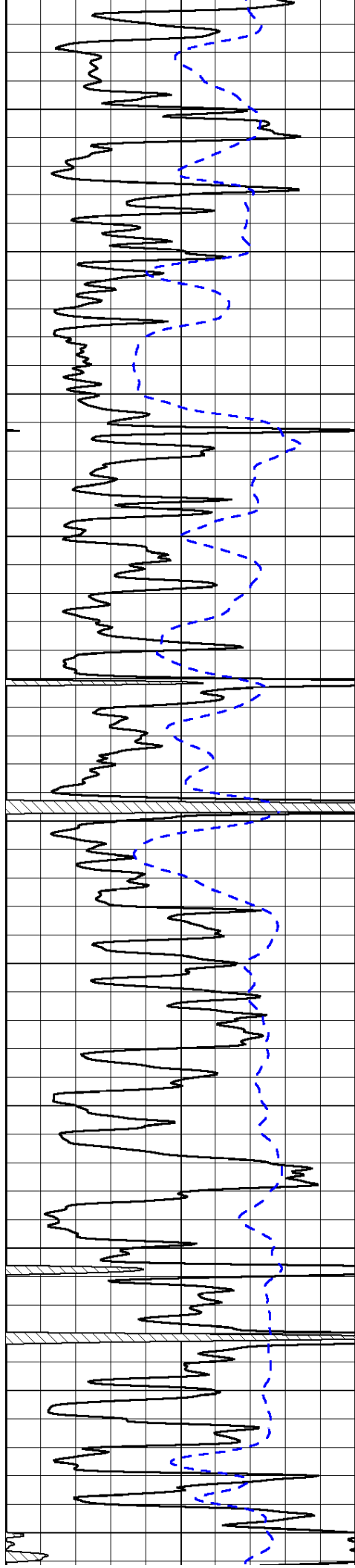


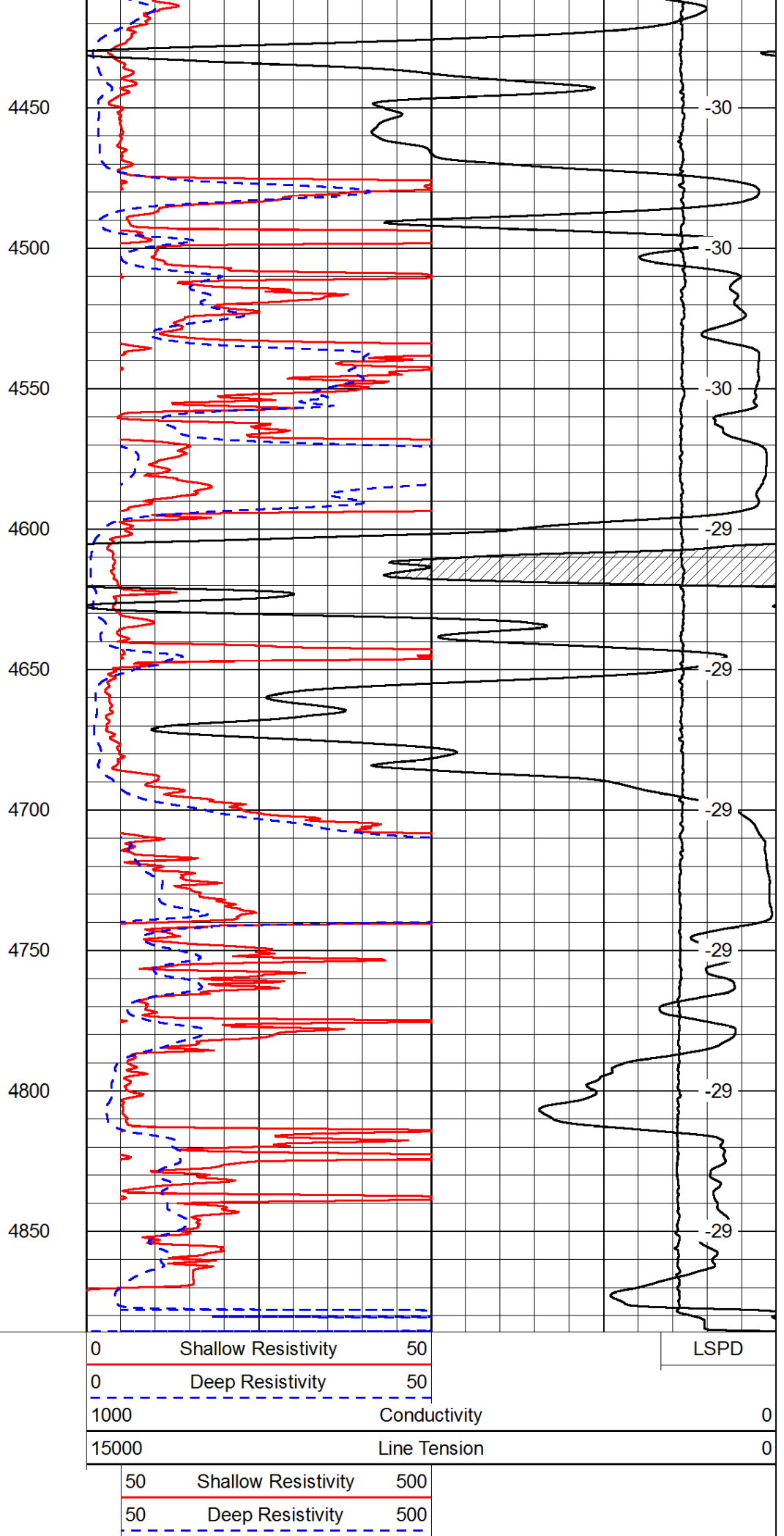
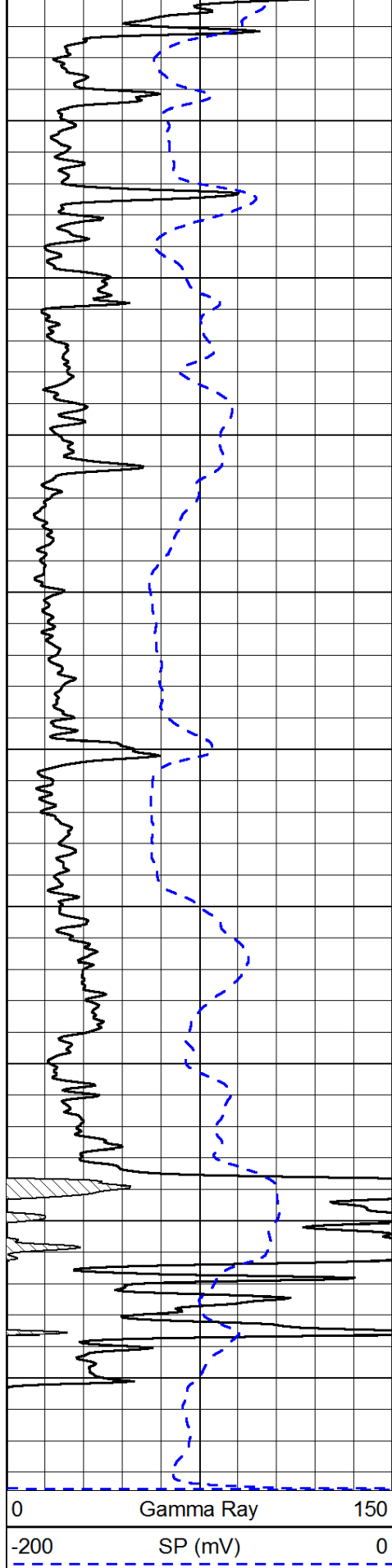










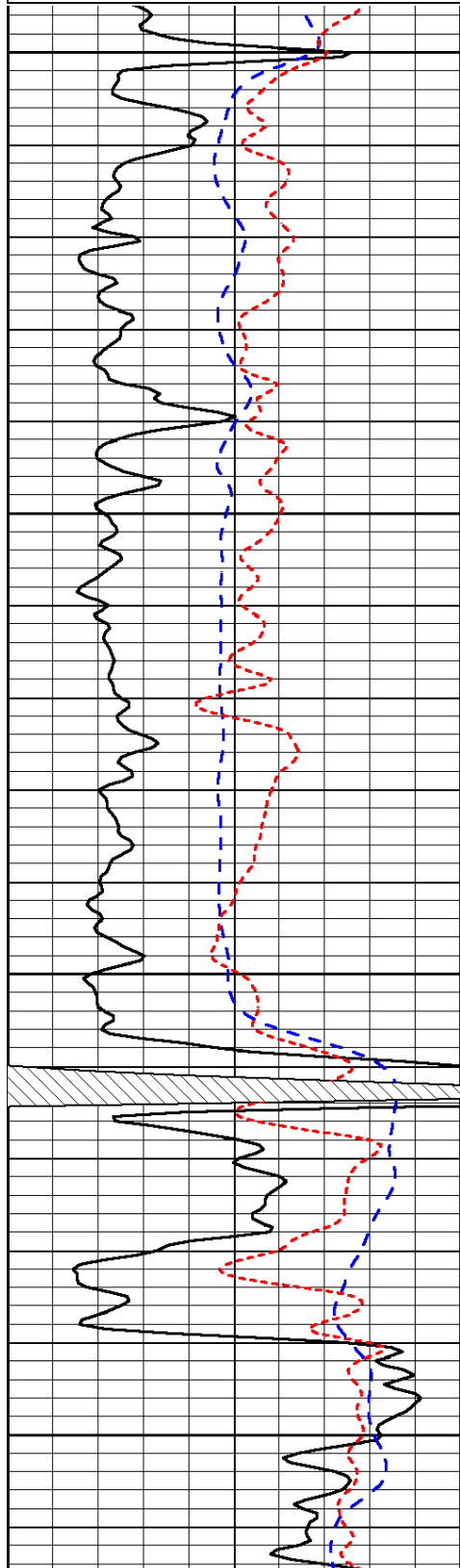


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 Dataset Pathname: DIL/dowstk  
 Presentation Format: dil  
 Dataset Creation: Tue May 27 14:40:26 2014  
 Charted by: Depth in Feet scaled 1:240

|      |           |     |
|------|-----------|-----|
| 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

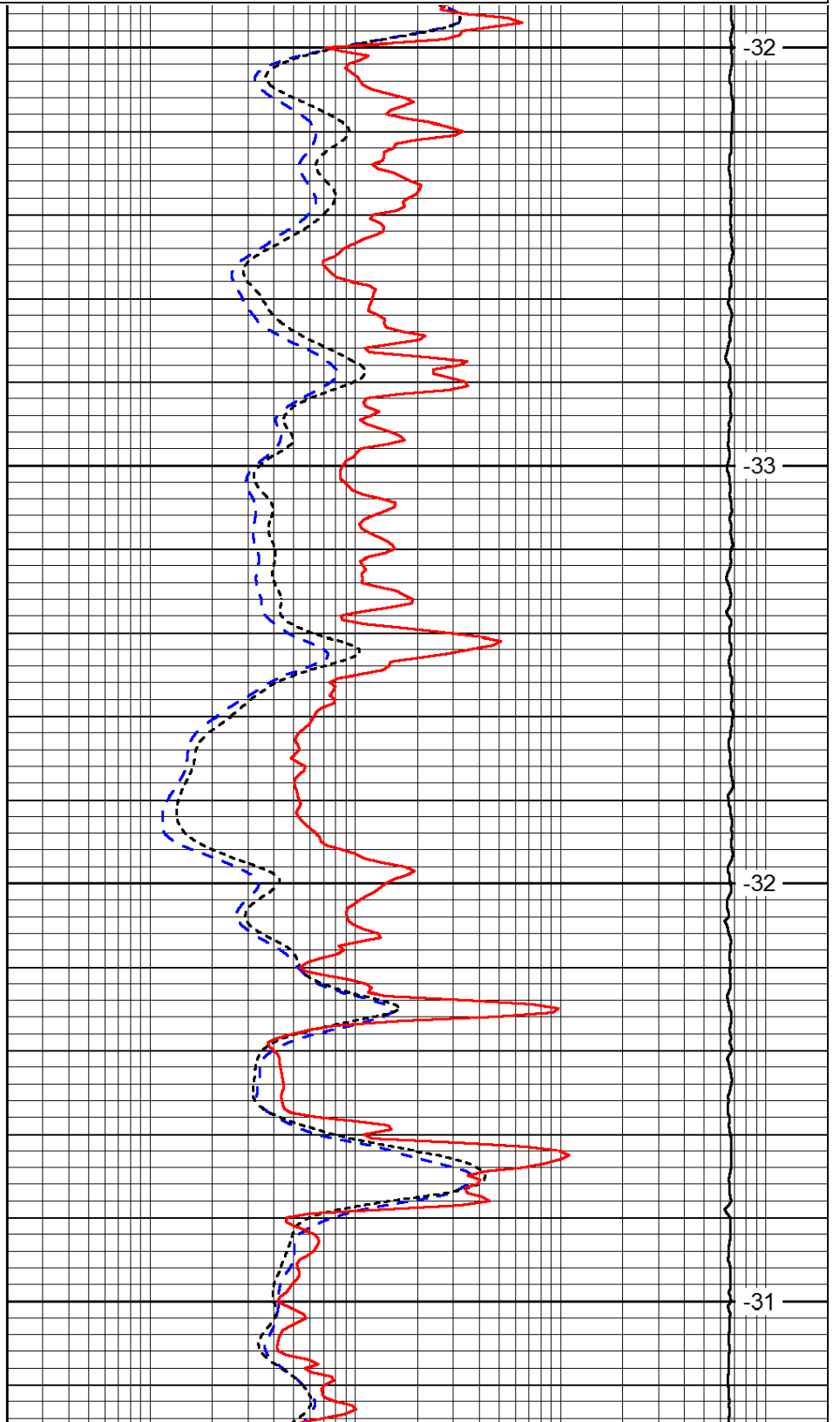


3650

3700

3750

3800

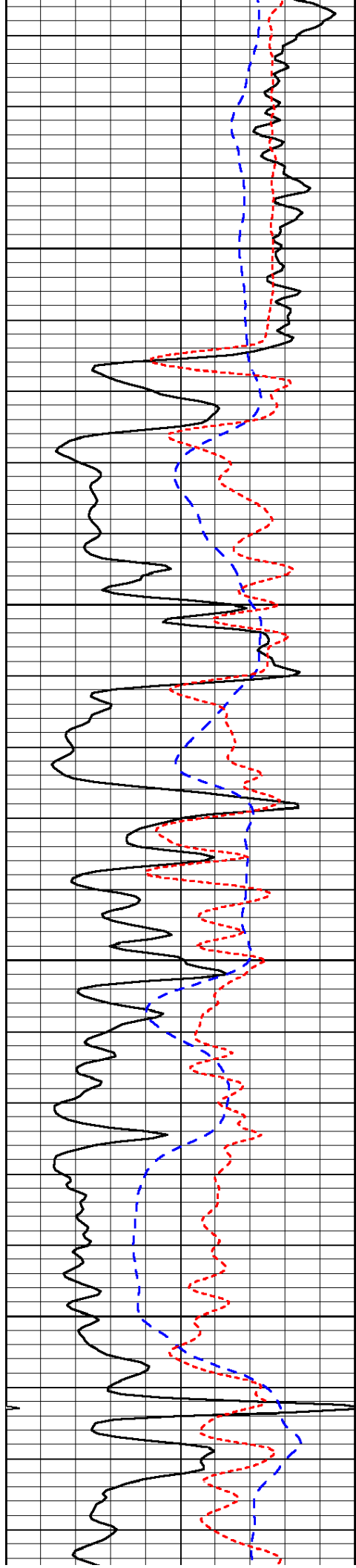


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-32

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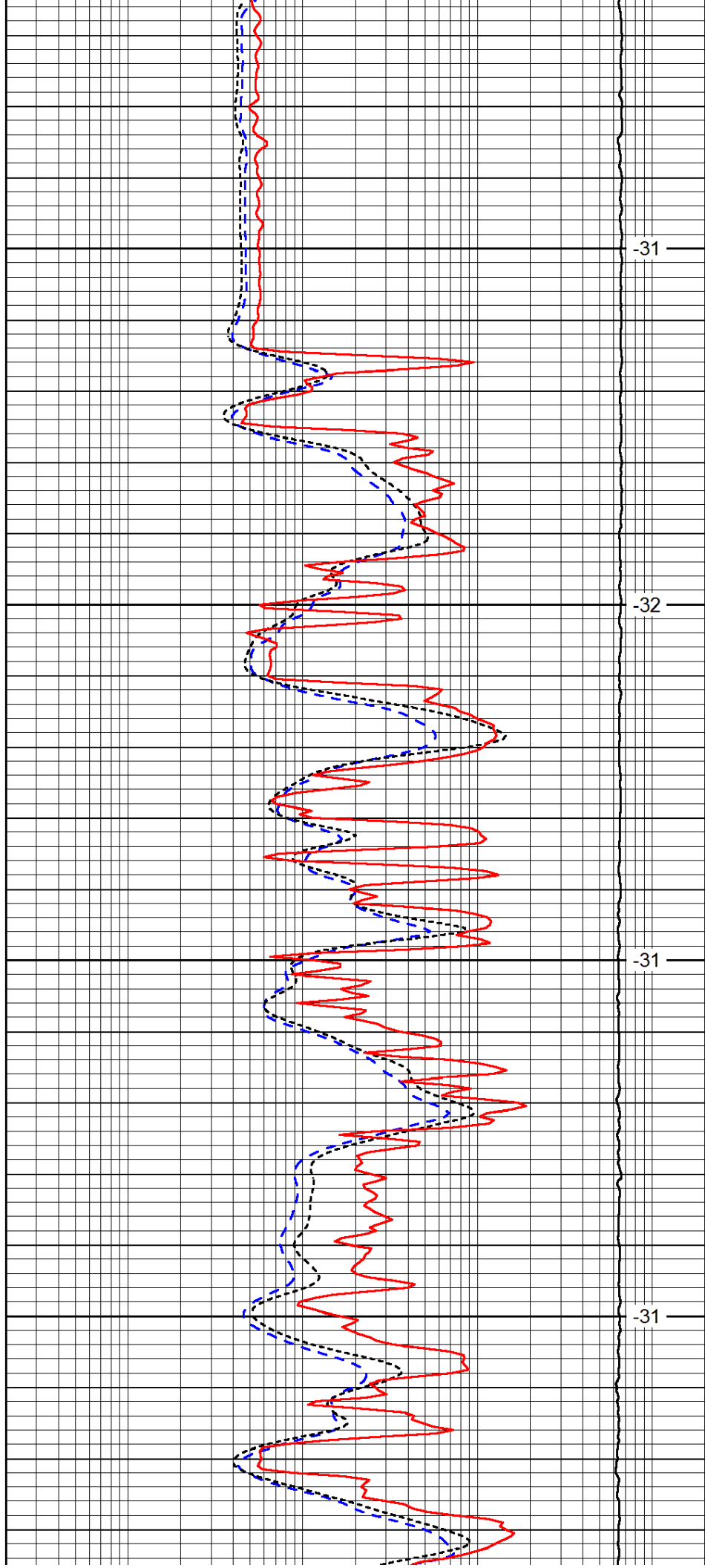


3850

3900

3950

4000

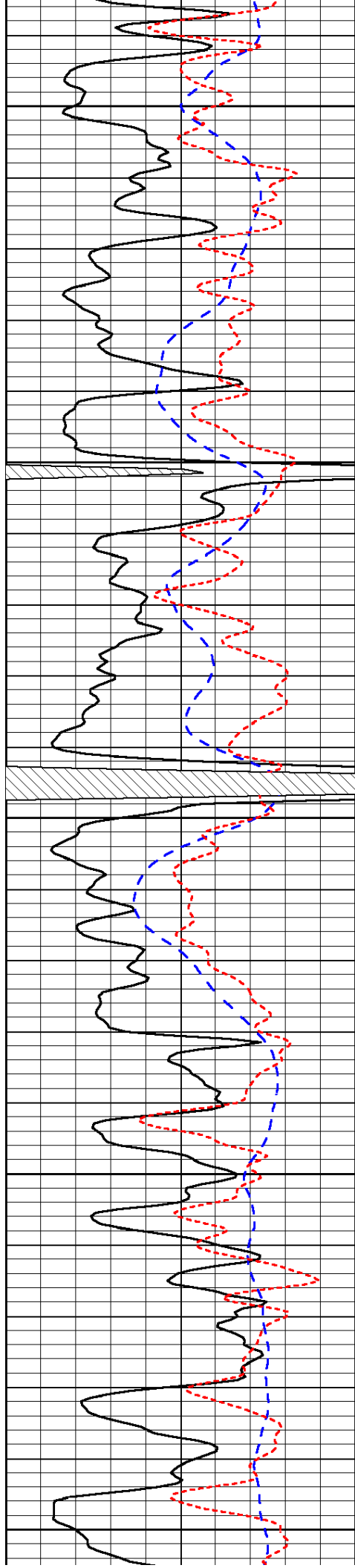


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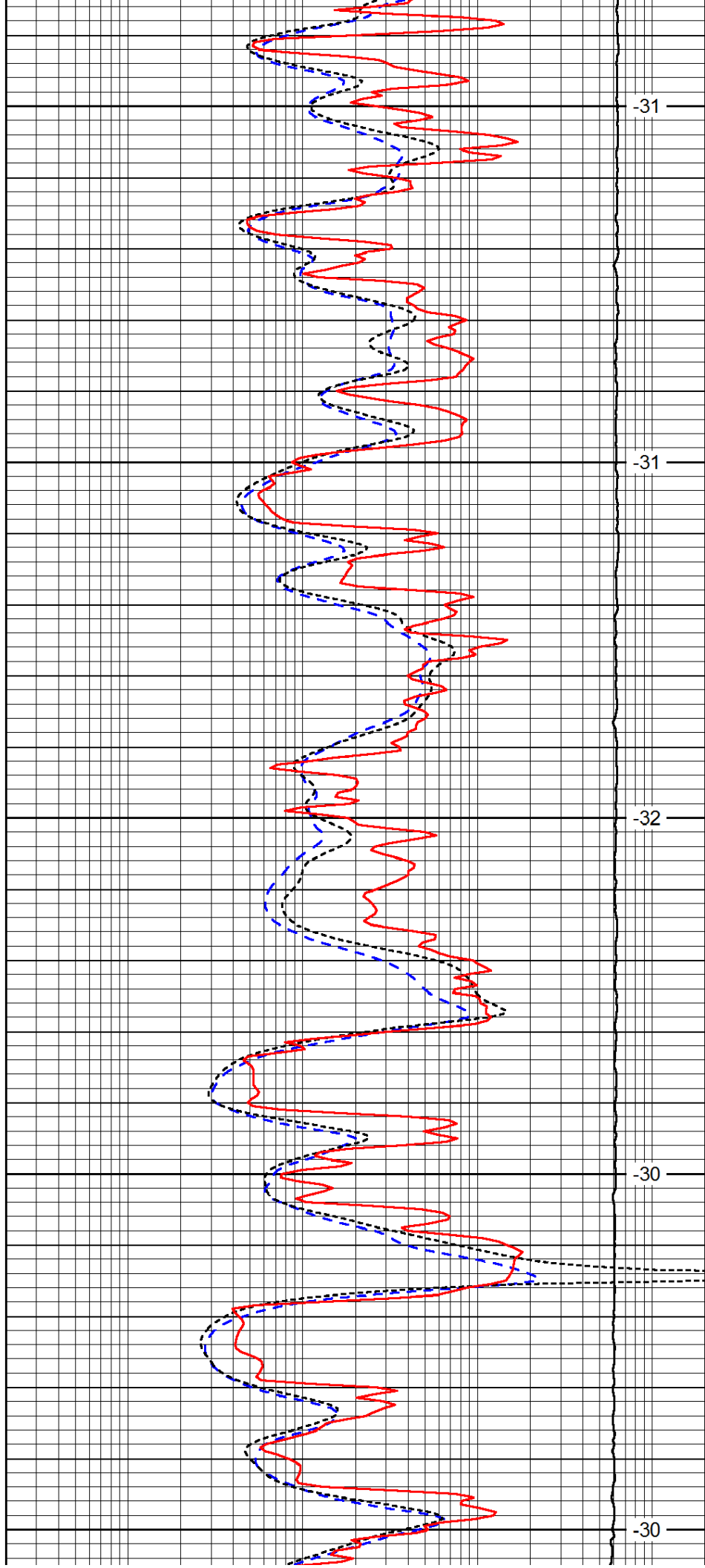
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4150

4200

4250



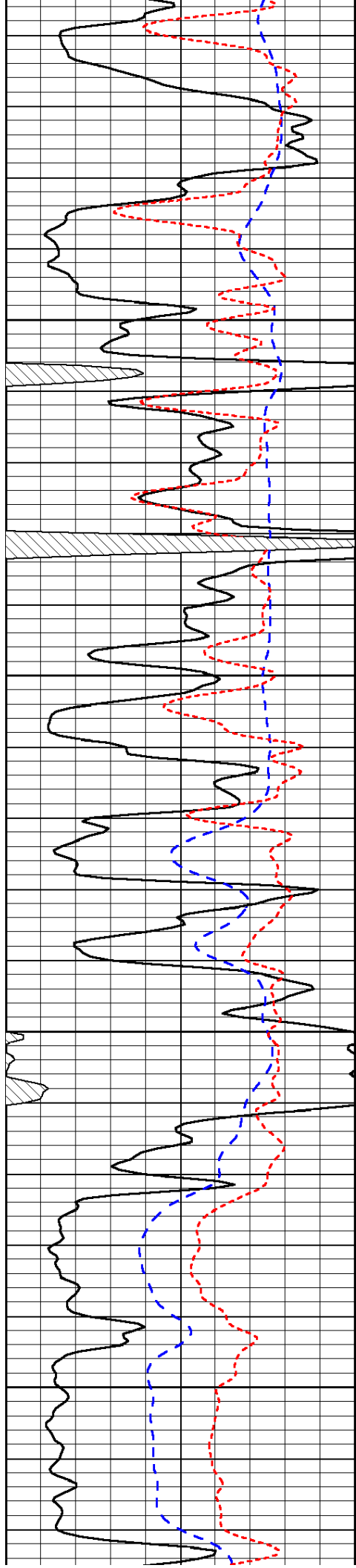
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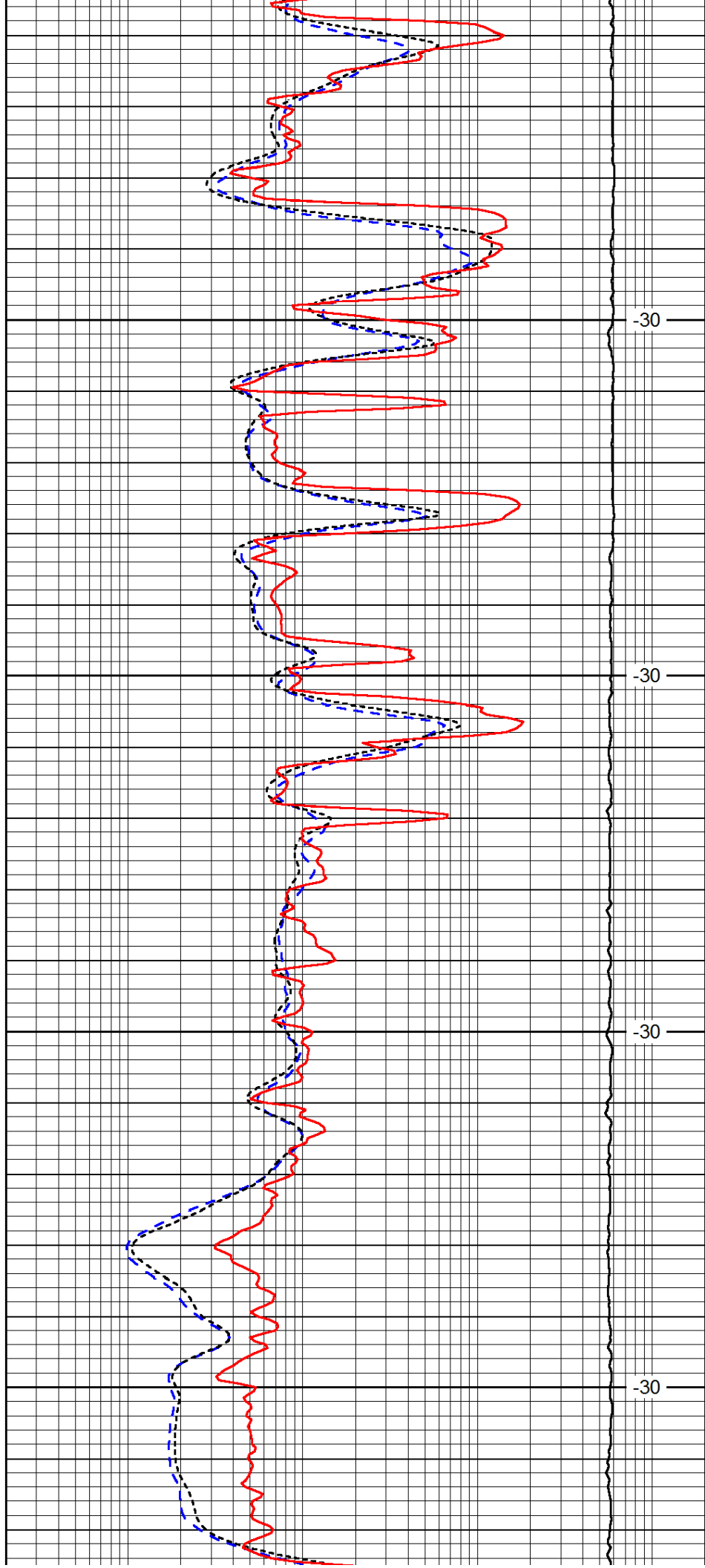


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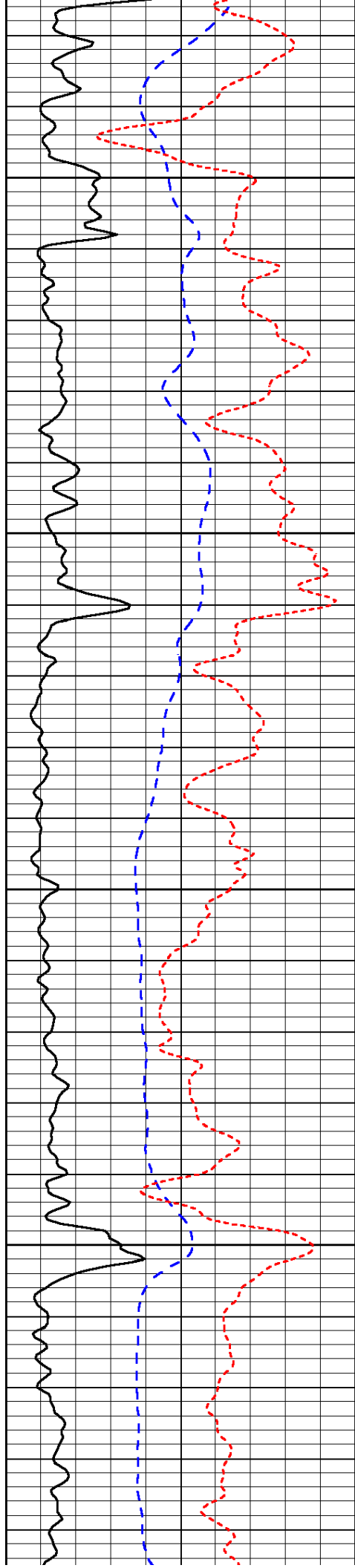


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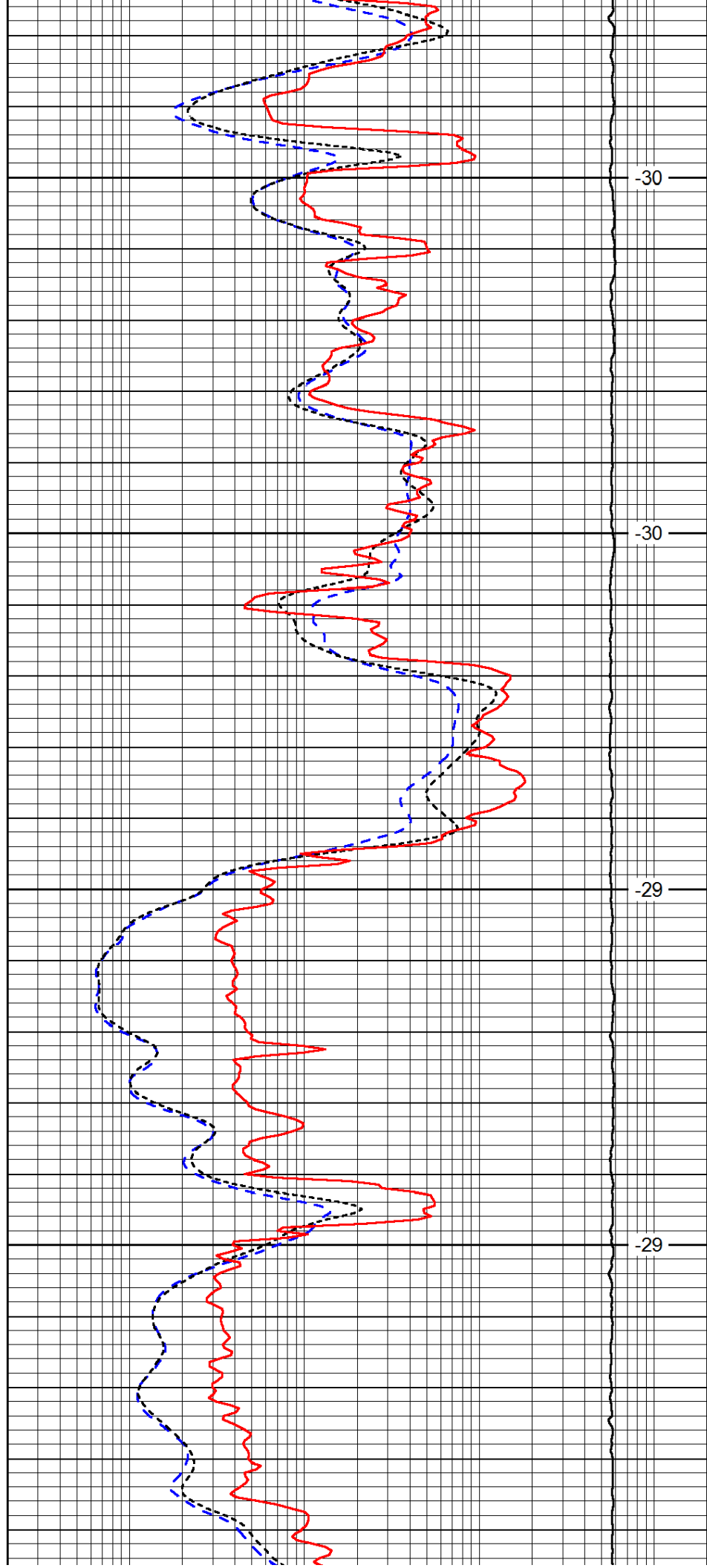


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4600

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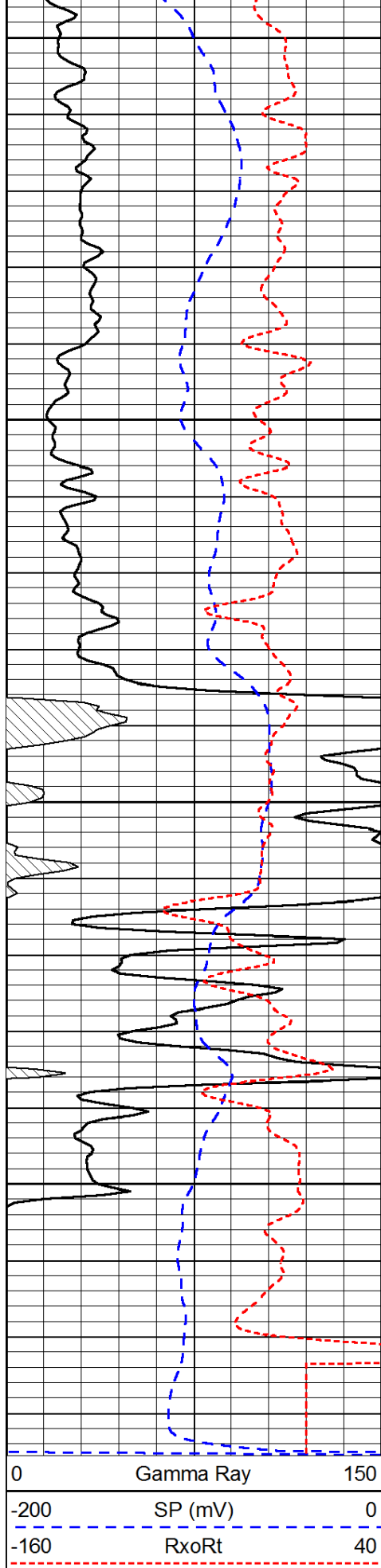


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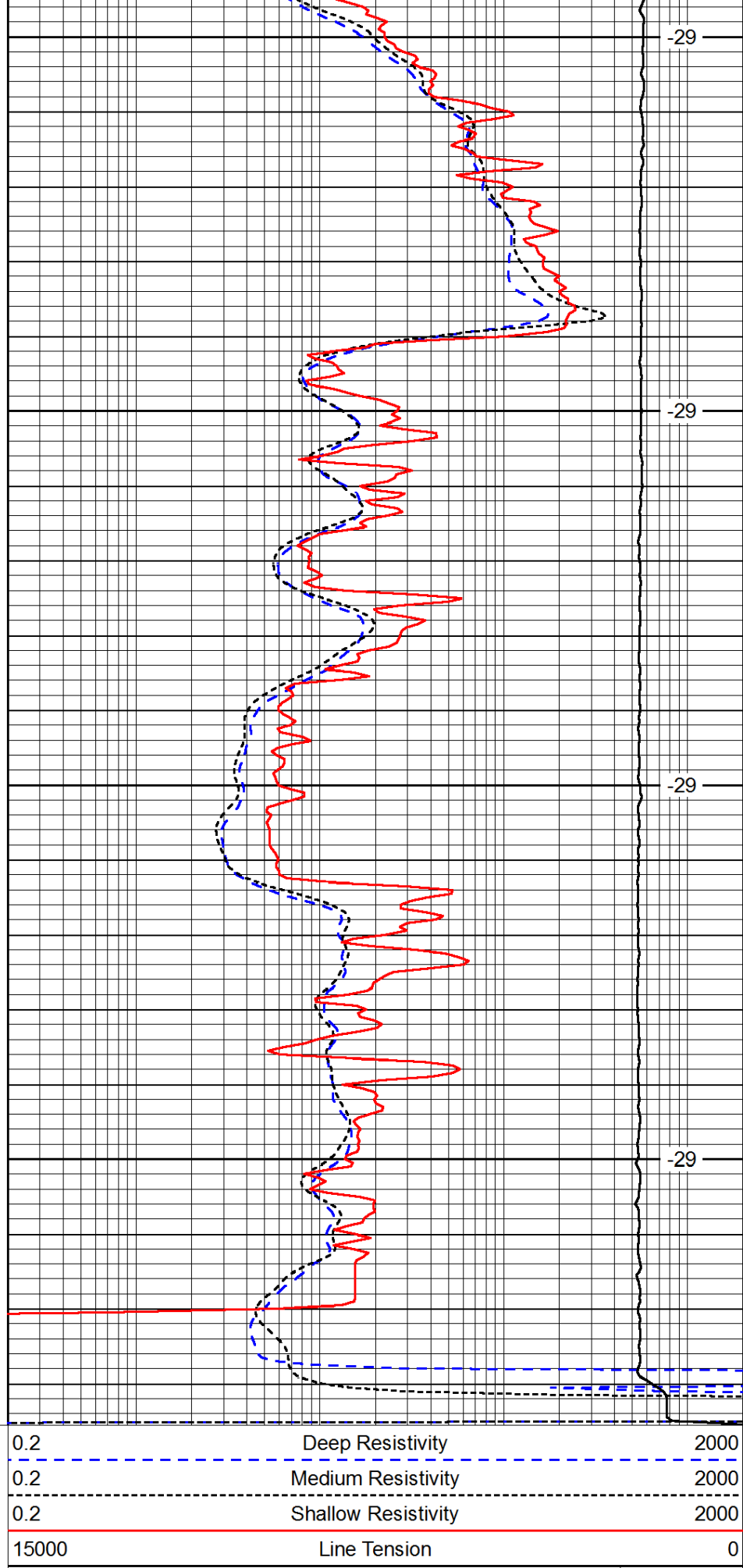
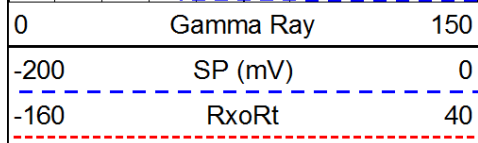


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4800

4850

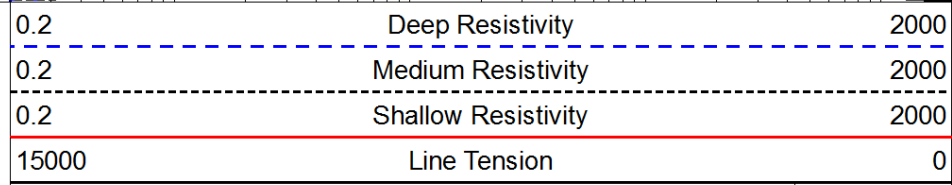


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LSPD