



Pioneer Energy Services

## Microresistivity Log

|                        |                             |                         |                                |
|------------------------|-----------------------------|-------------------------|--------------------------------|
| API No.                | Company <b>Berexco, LLC</b> |                         |                                |
|                        | Well <b>Michael # 3-22</b>  |                         |                                |
|                        | Field                       |                         |                                |
|                        | County                      | Rawlins                 | State                          |
|                        | Kansas                      |                         |                                |
|                        | Location                    | 1,200' FSL & 2,300' FWL |                                |
|                        | Sec: 22                     | Twp: 1S                 | Rge: 36W                       |
|                        | Permanent Datum             | Ground Level            | Elevation 3128                 |
|                        | Log Measured From           | Kelly Bushing           | 13 Ft. Above Perm. Datum       |
|                        | Drilling Measured From      |                         | K.B. 3141<br>D.F.<br>G.L. 3128 |
| Date                   | 10/4/2013                   |                         |                                |
| Run Number             | Two                         |                         |                                |
| Depth Driller          | 5108                        |                         |                                |
| Depth Logger           | 5115                        |                         |                                |
| Bottom Logged Interval | 5114                        |                         |                                |
| Top Log Interval       | 3500                        |                         |                                |
| Casing Driller         | 8.625 @ 310                 |                         |                                |
| Casing Logger          | 309                         |                         |                                |
| Bit Size               | 7.875                       |                         |                                |
| Type Fluid in Hole     | Chemical                    |                         |                                |
| Salinity,ppm CL        | 1200                        |                         |                                |
| Density / Viscosity    | 9.3                         | 41                      |                                |
| pH / Fluid Loss        | 11.0                        | 8.8                     |                                |
| Source of Sample       | Flowline                    |                         |                                |
| Rm @ Meas. Temp        | .70 @ 62                    |                         |                                |
| Rmf @ Meas. Temp       | .53 @ 62                    |                         |                                |
| Rmc @ Meas. Temp       | .95 @ 62                    |                         |                                |
| Source of Rmf / Rmc    | Charts                      |                         |                                |
| Rm @ BHT               | .34 @ 127                   |                         |                                |
| Operating Rig Time     | 4 Hours                     |                         |                                |
| Max Rec. Temp. F       | 127                         |                         |                                |
| Equipment Number       | 108                         |                         |                                |
| Location               | Hays                        |                         |                                |
| Recorded By            | J. Long                     |                         |                                |
| Witnessed By           | Ryan White                  |                         |                                |

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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.

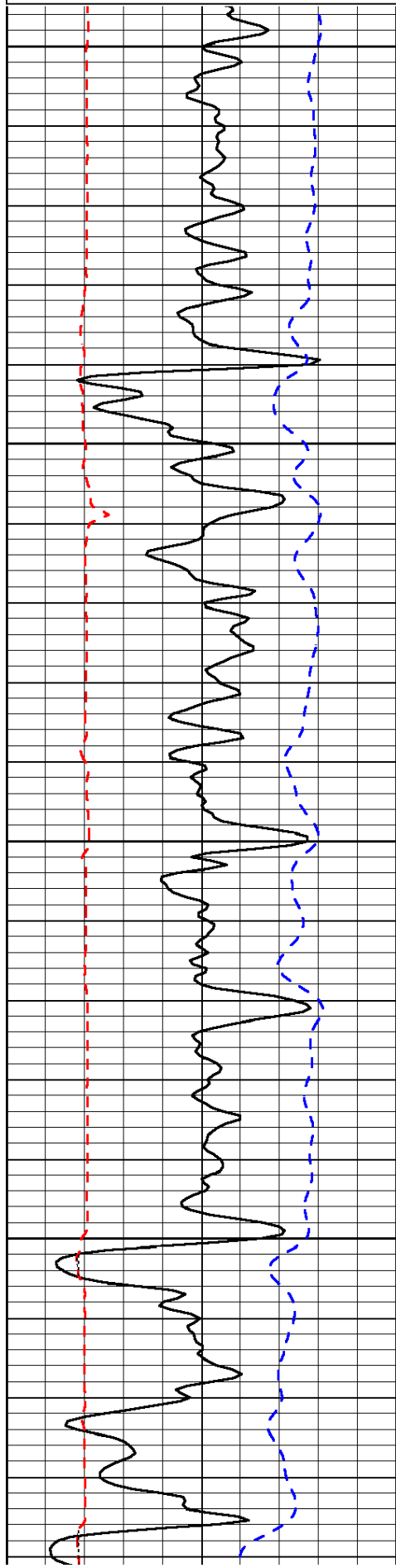
### Comments

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

McDonald, 12 North to BB Road, 1 1/2 East, 1/4 South, 1/4 East

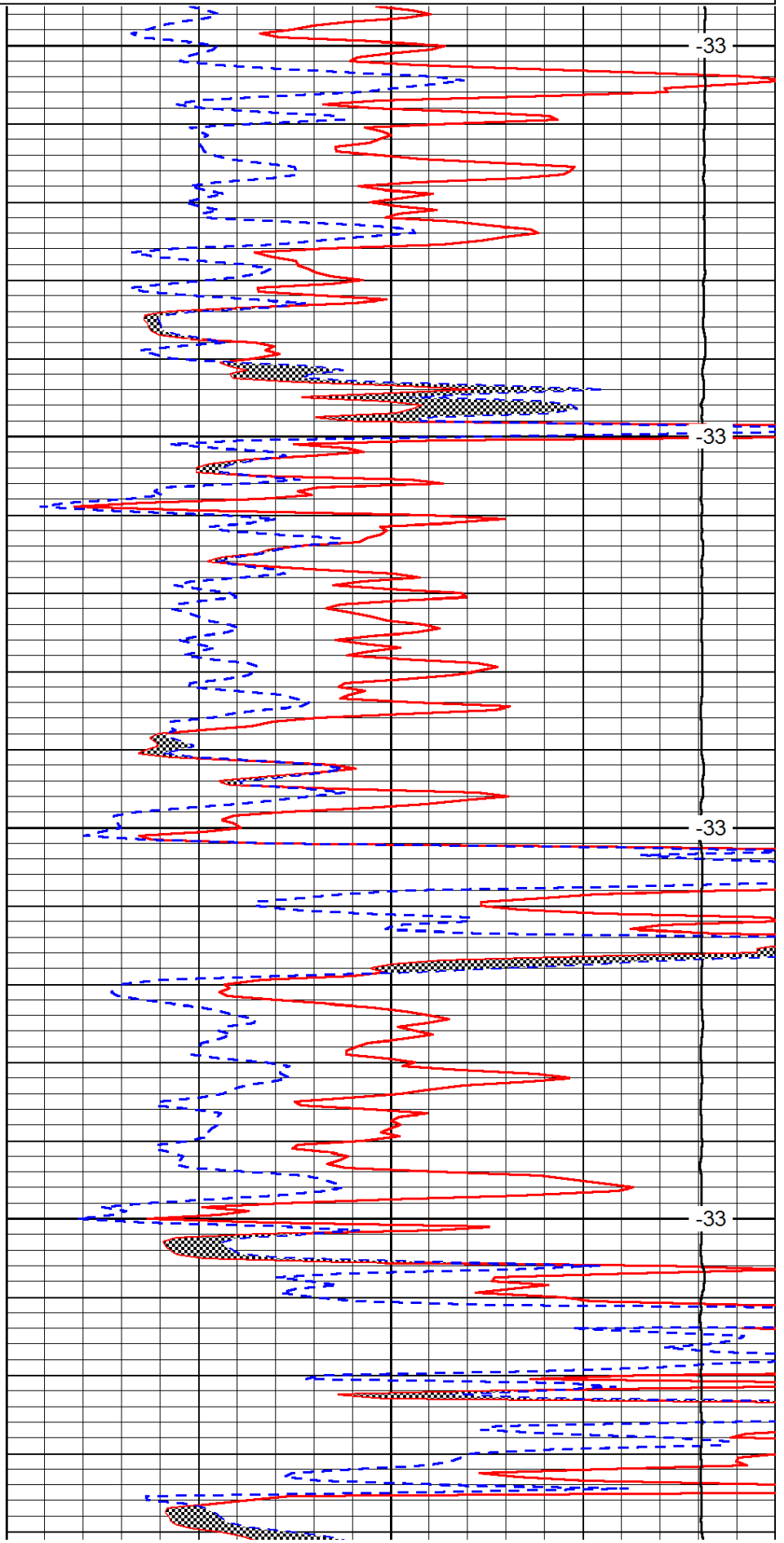
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Dataset Pathname: rag/berrag  
Presentation Format: micro  
Dataset Creation: Fri Oct 04 07:11:38 2013  
Charted by: Depth in Feet scaled 1:240

|                                         |                          |     |
|-----------------------------------------|--------------------------|-----|
| Charted by: Depth in Feet scaled 1:2.15 |                          |     |
| 0                                       | Gamma Ray                | 150 |
| 6                                       | Micro Log Caliper (GAPI) | 16  |
| -200                                    | SP (mV)                  | 0   |

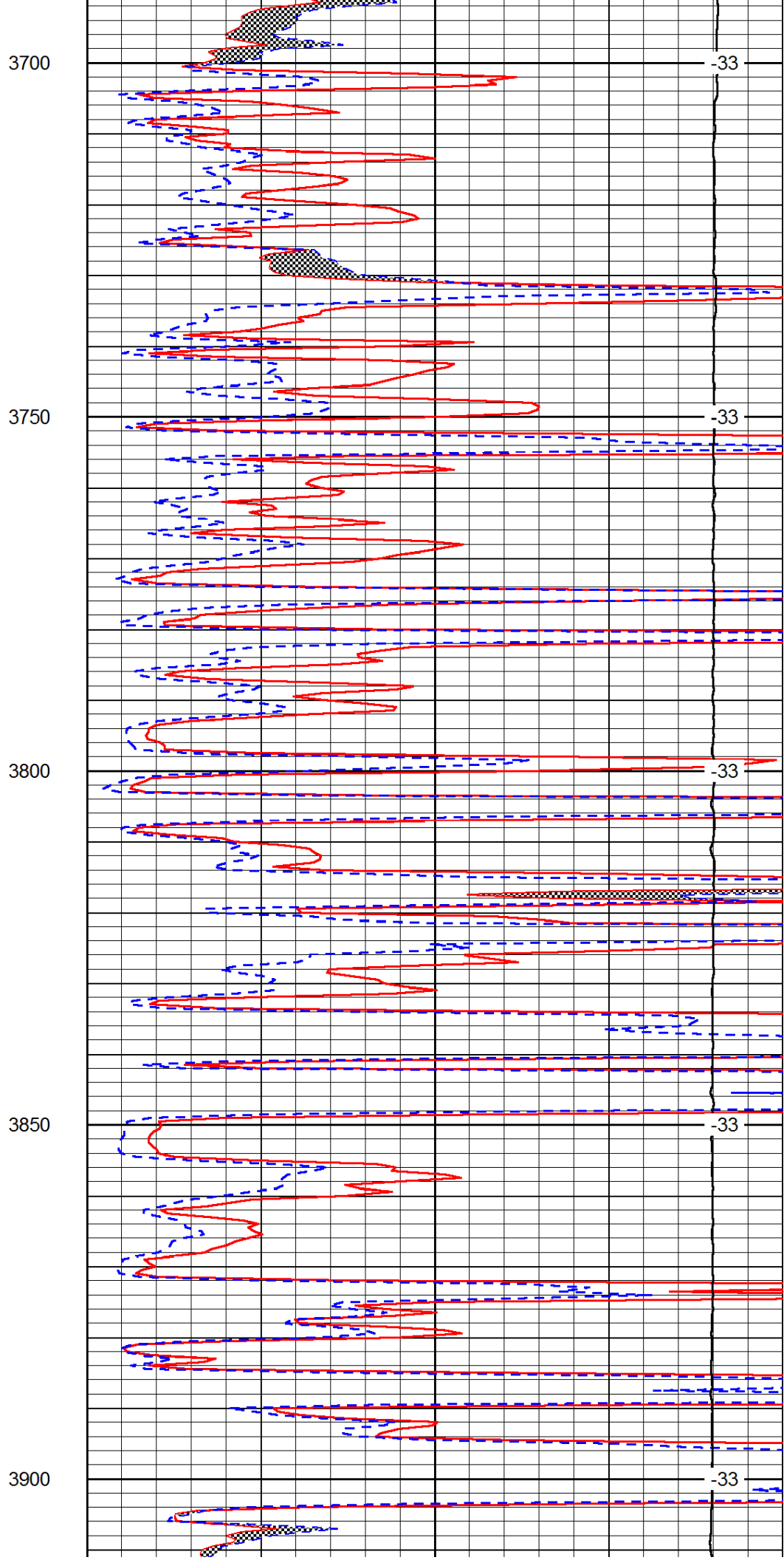
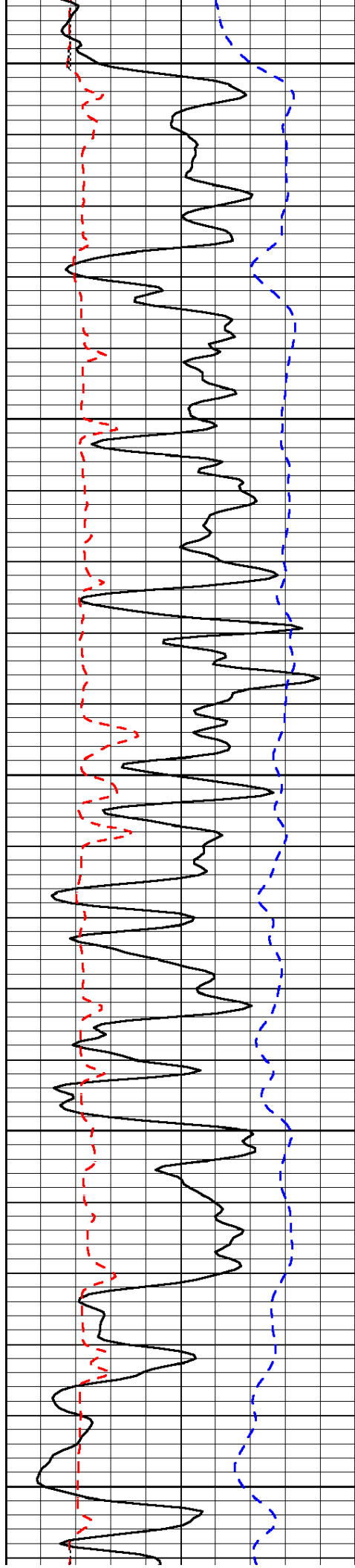


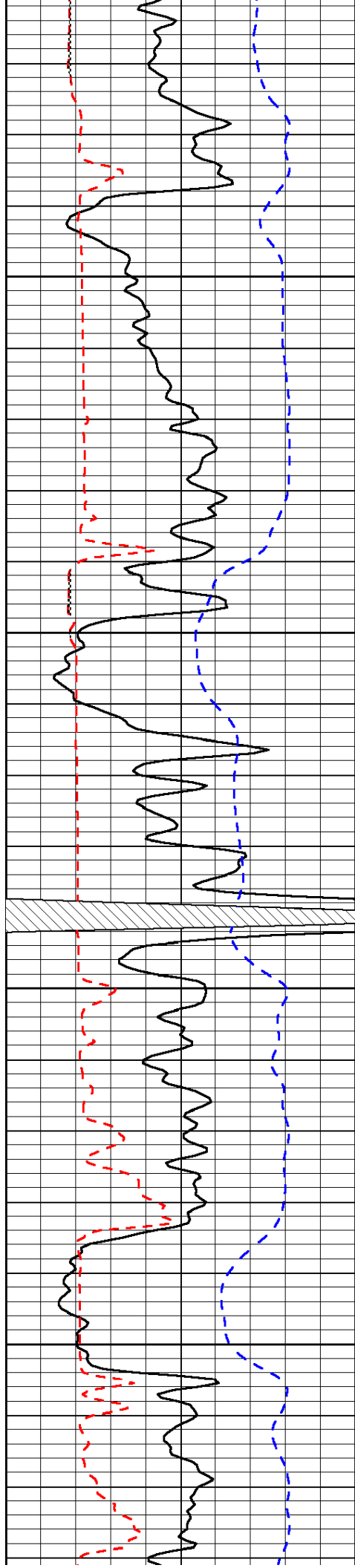
3500  
3550  
3600  
3650

|       |                     |    |
|-------|---------------------|----|
| 0     | Micro Inverse 1 X 1 | 40 |
| 0     | Micro Normal 2"     | 40 |
| 15000 | Line Weight         | 0  |



LSPD



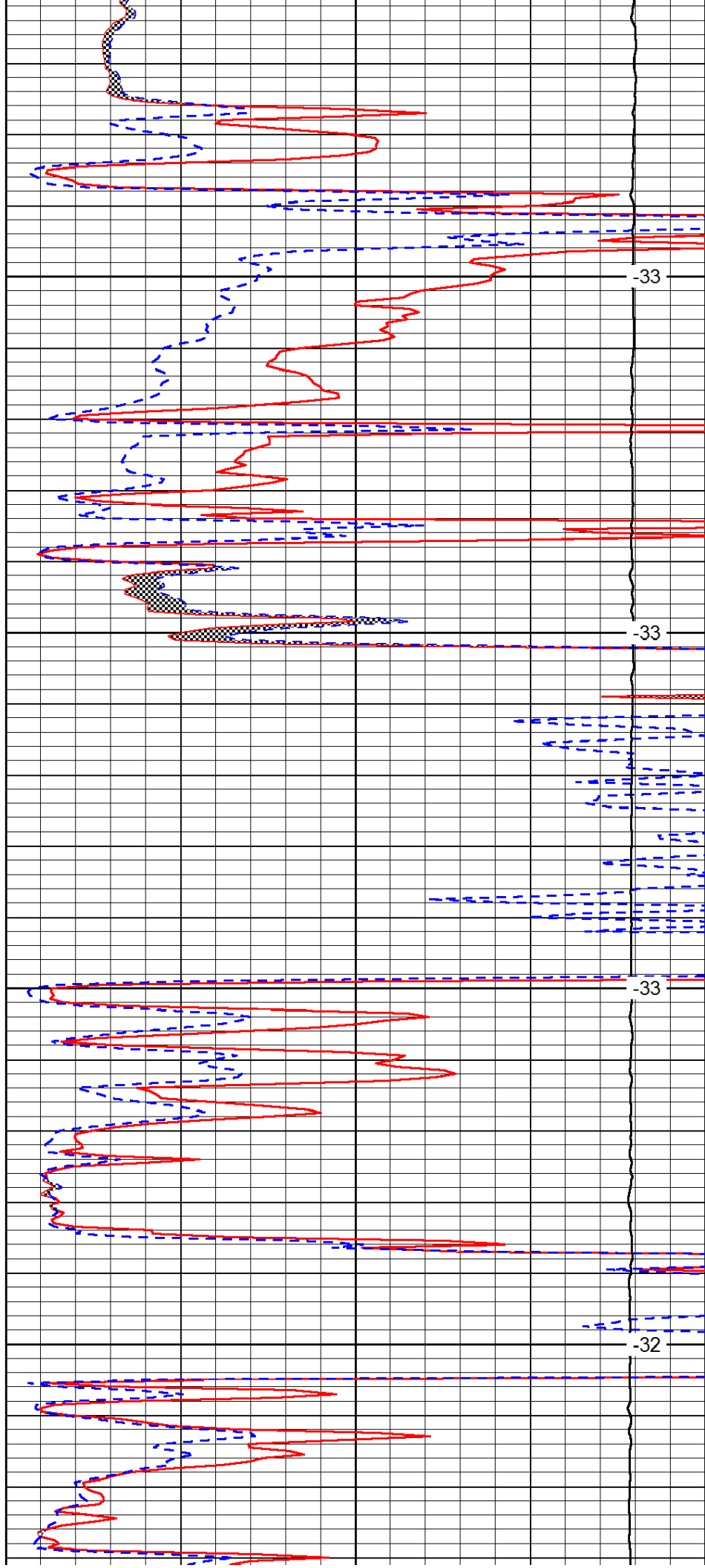


3950

4000

4050

4100

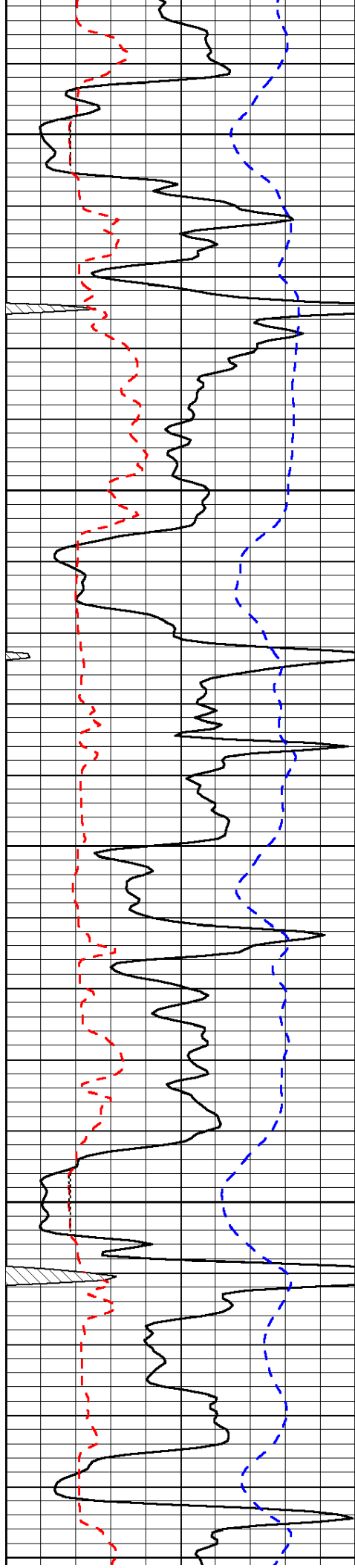


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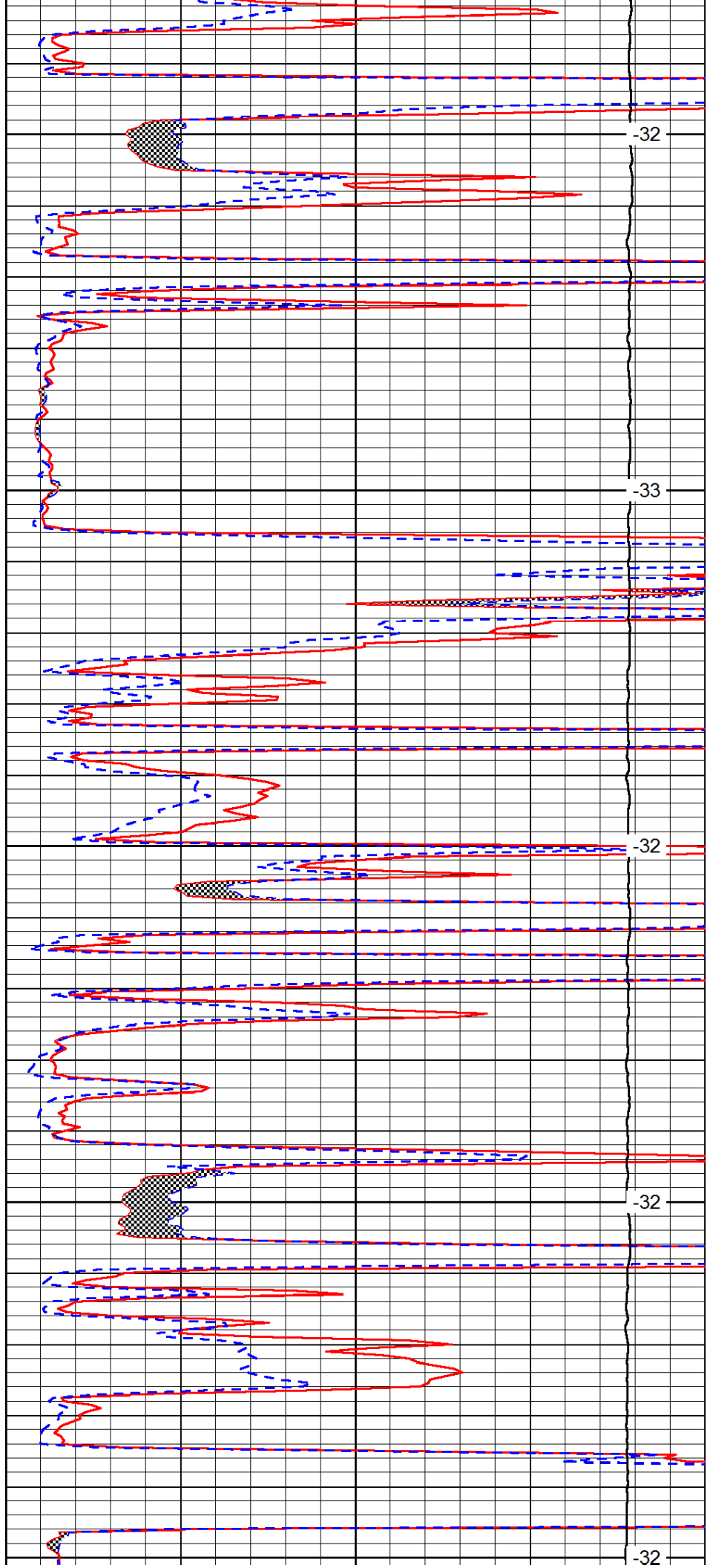
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4200

4250

4300

4350



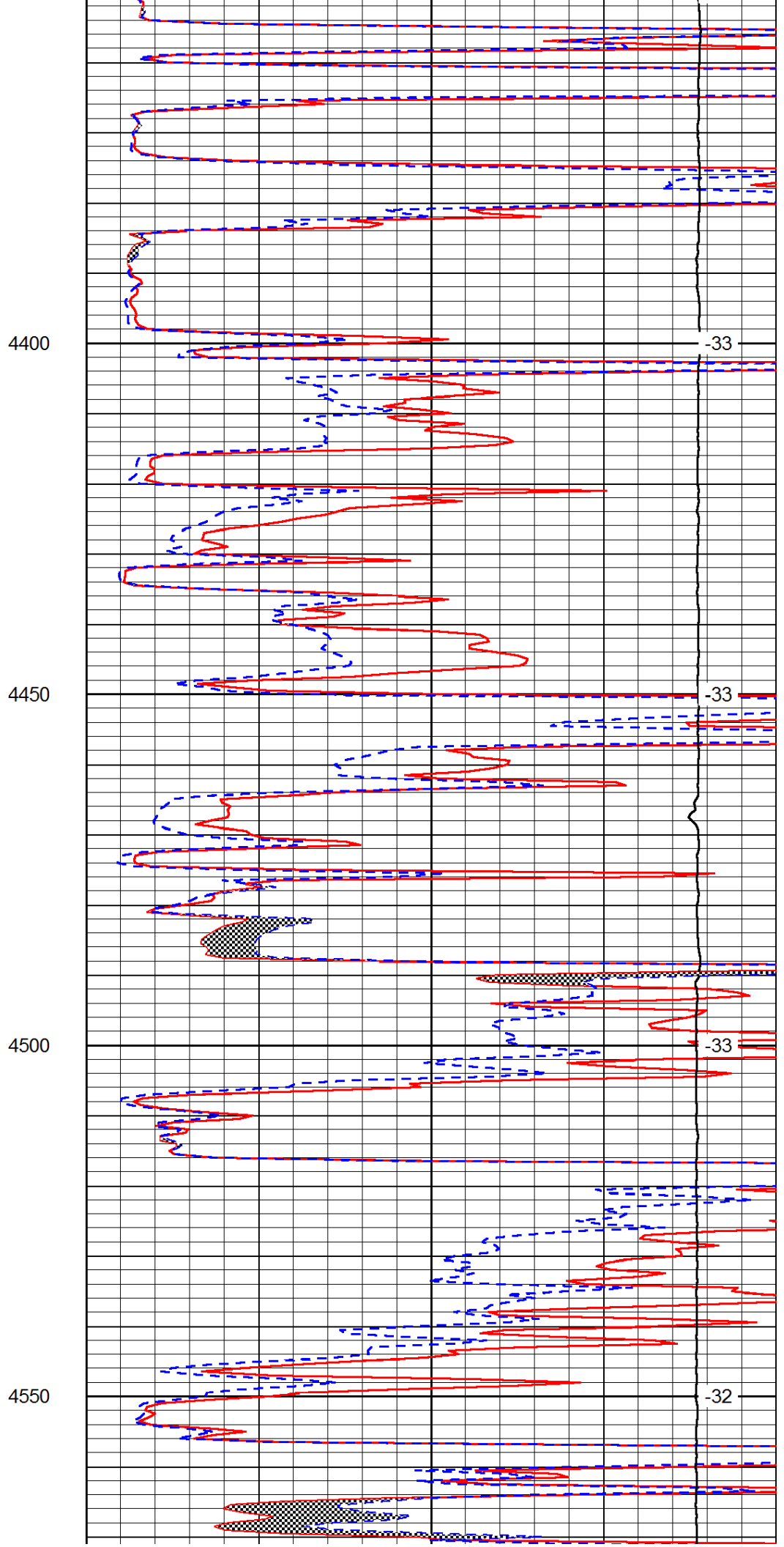
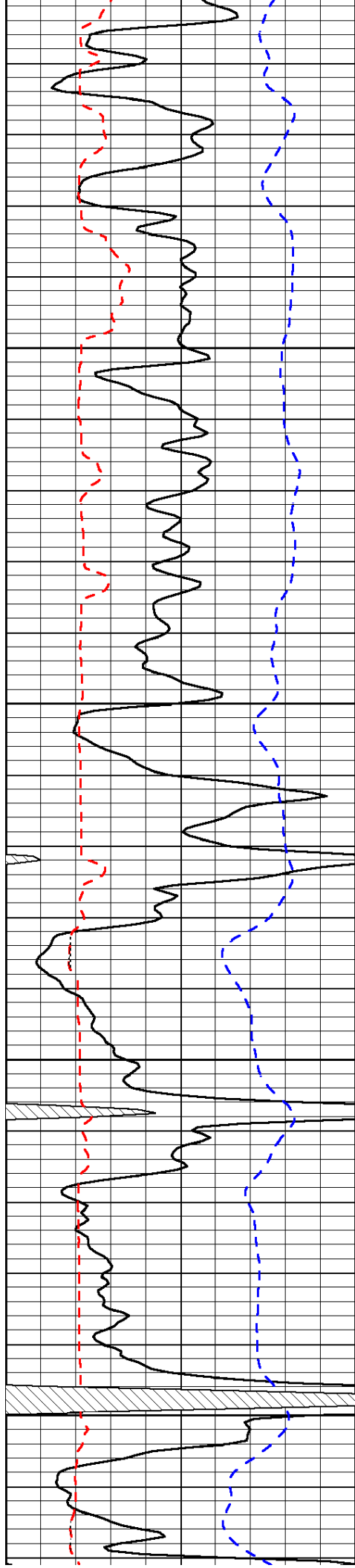
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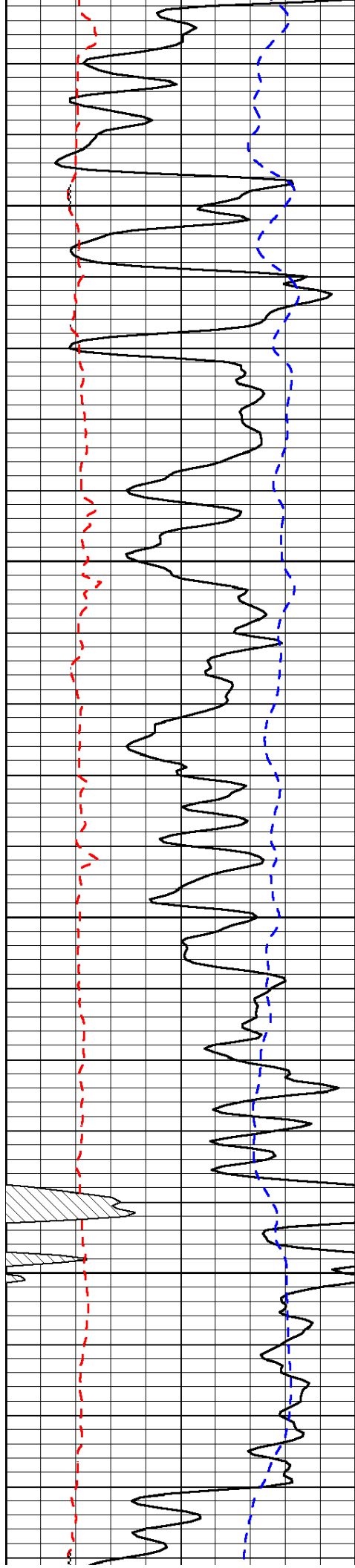
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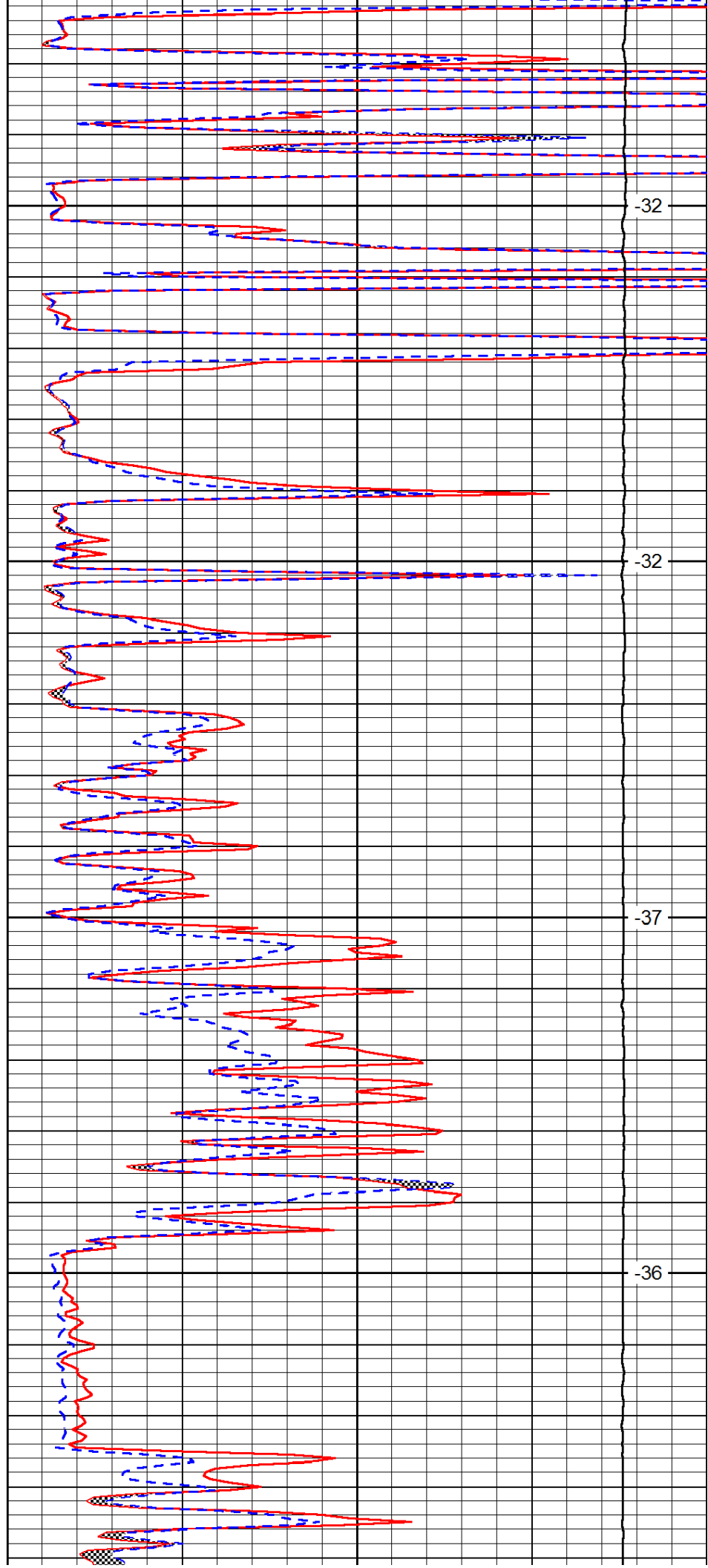


4600

4650

4700

4750

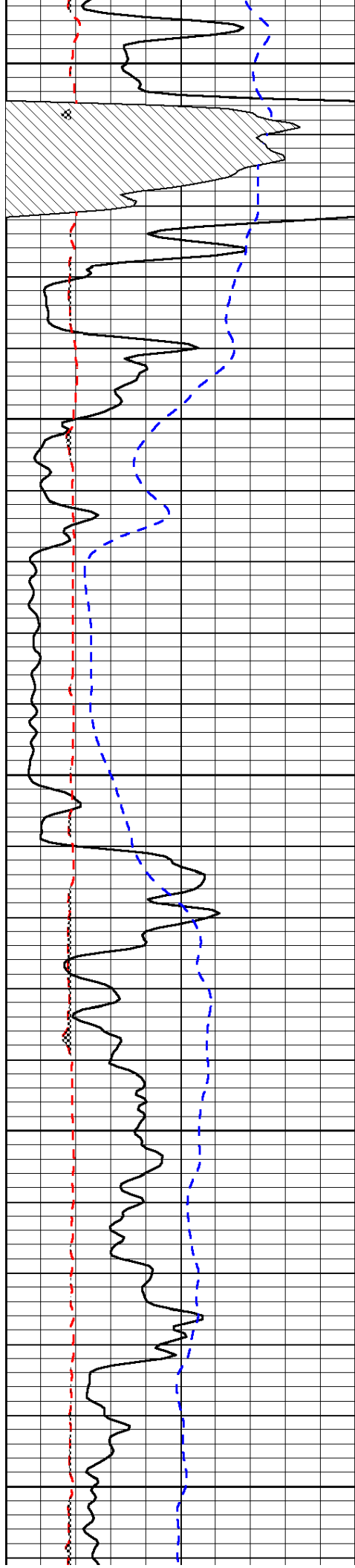


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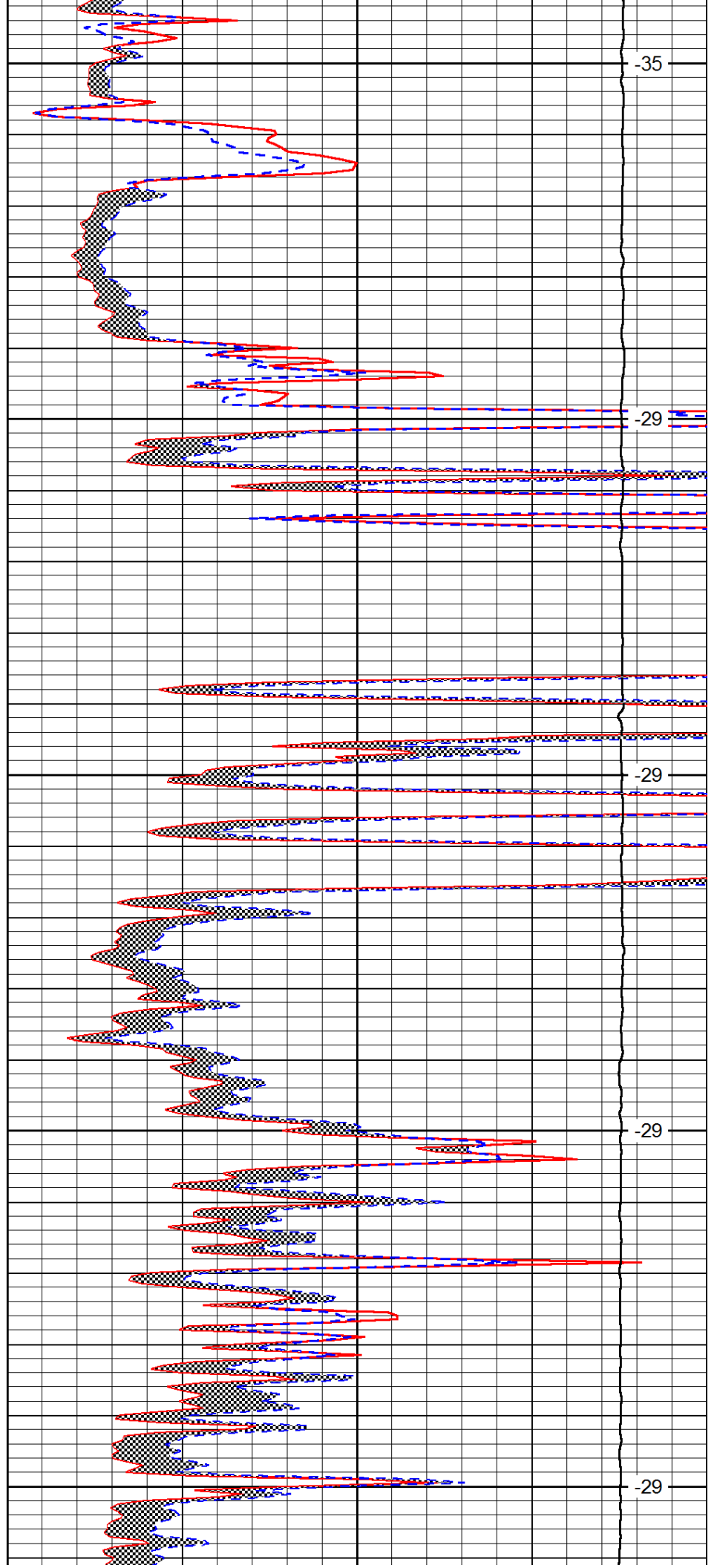
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4850

4900

4950

5000



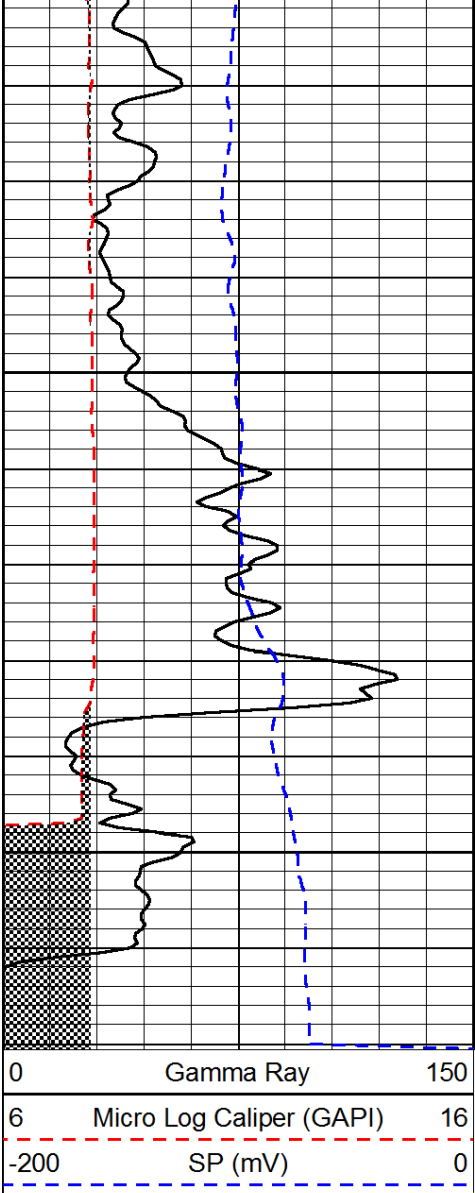
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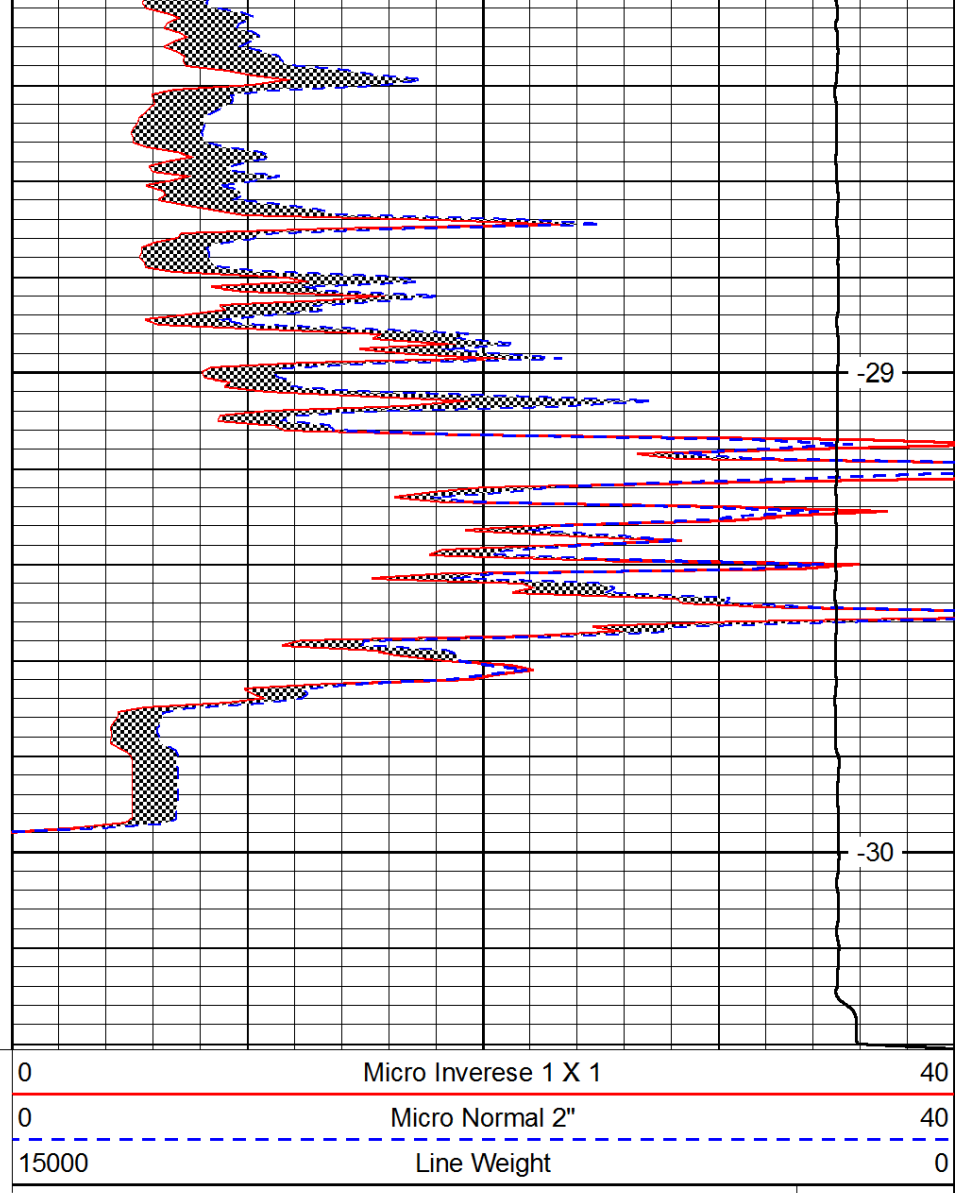
-29

-29



5050

5100



-29

-30

LSPD