

# LOG-TECH



## Microresistivity Log

DIGITAL LOG (785) 625-3858

|                                                               |                                                                                                                                                  |  |
|---------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|--|
| API No.<br>15-203-20,165-00-00                                | Company <b>Abercrombie Energy, LLC</b><br>Well <b>Buerkle Farms No.1-13</b><br>Field <b>Wildcat</b><br>County <b>Wichita</b> State <b>Kansas</b> |  |
| Location<br>350' FSL & 2025' FEL<br>Sec: 13 Twp: 20S Rge: 35W | Other Services<br>CNL/CDL<br>DIL/BHCS                                                                                                            |  |

|                        |               |                          |           |
|------------------------|---------------|--------------------------|-----------|
| Permanent Datum        | Ground Level  | Elevation 3118           | K.B. 3128 |
| Log Measured From      | Kelly Bushing | 10 Ft. Above Perm. Datum | D.F. 3118 |
| Drilling Measured From | Kelly Bushing |                          | G.L. 3118 |
| Date                   | 9/8/2011      |                          |           |
| Run Number             | Two           |                          |           |
| Depth Driller          | 5070          |                          |           |
| Depth Logger           | 5067          |                          |           |
| Bottom Logged Interval | 5066          |                          |           |
| Top Log Interval       | 3600          |                          |           |
| Casing Driller         | 8.625 @ 312   |                          |           |
| Casing Logger          | 312           |                          |           |
| Bit Size               | 7.875         |                          |           |
| Type Fluid in Hole     | Chemical      |                          |           |
| Salinity, ppm CL       | 5.200         |                          |           |
| Density / Viscosity    | 9.2 46        |                          |           |
| pH / Fluid Loss        | 10.0 8.0      |                          |           |
| Source of Sample       | Flowline      |                          |           |
| Rm @ Meas. Temp        | .45 @ 68      |                          |           |
| Rmf @ Meas. Temp       | .34 @ 68      |                          |           |
| Rmc @ Meas. Temp       | .61 @ 68      |                          |           |
| Source of Rmf / Rmc    | Charts        |                          |           |
| Rm @ BHT               | .24 @ 127     |                          |           |
| Operating Rig Time     | 5 Hours       |                          |           |
| Max Rec. Temp. F       | 127           |                          |           |
| Equipment Number       | 17            |                          |           |
| Location               | Hays          |                          |           |
| Recorded By            | C. Desaire    |                          |           |
| Witnessed By           | Wes Hansen    |                          |           |

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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.

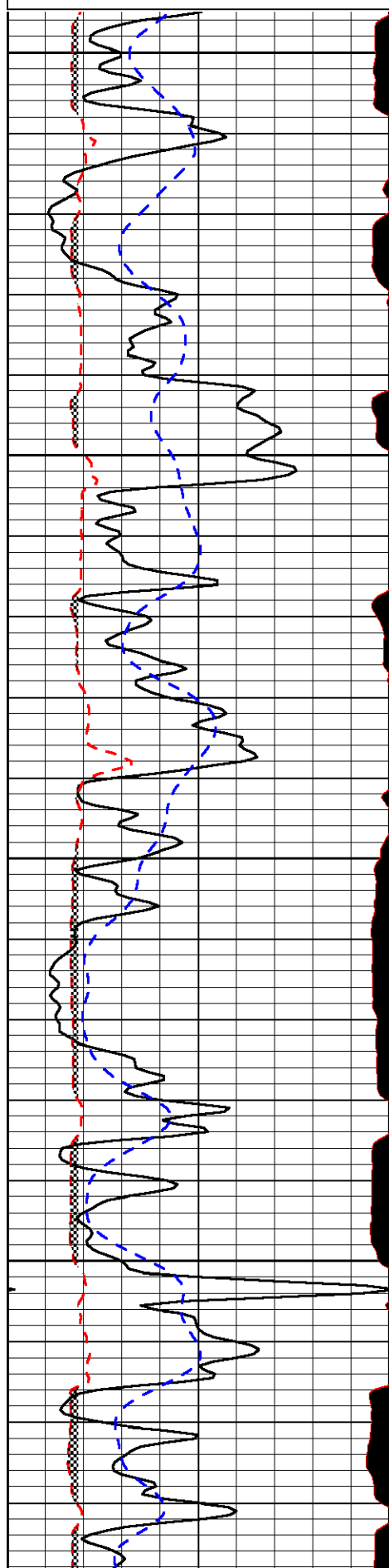
### Comments

Thank you for using Log-Tech, Inc.  
(785) 625-3858

Scott City KS,  
12 W, 12 S, W Into

Database File: aberhd.db  
 Dataset Pathname: dil/aberstk  
 Presentation Format: micro  
 Dataset Creation: Fri Sep 09 00:13:43 2011  
 Charted by: Depth in Feet scaled 1:240

|       |                 |       |
|-------|-----------------|-------|
| 0     | Gamma Ray       | 150   |
| 6     | MCAL (GAPI)     | 16    |
| 2.875 | Mud Cake (GAPI) | 7.875 |
| -200  | SP              | 0     |



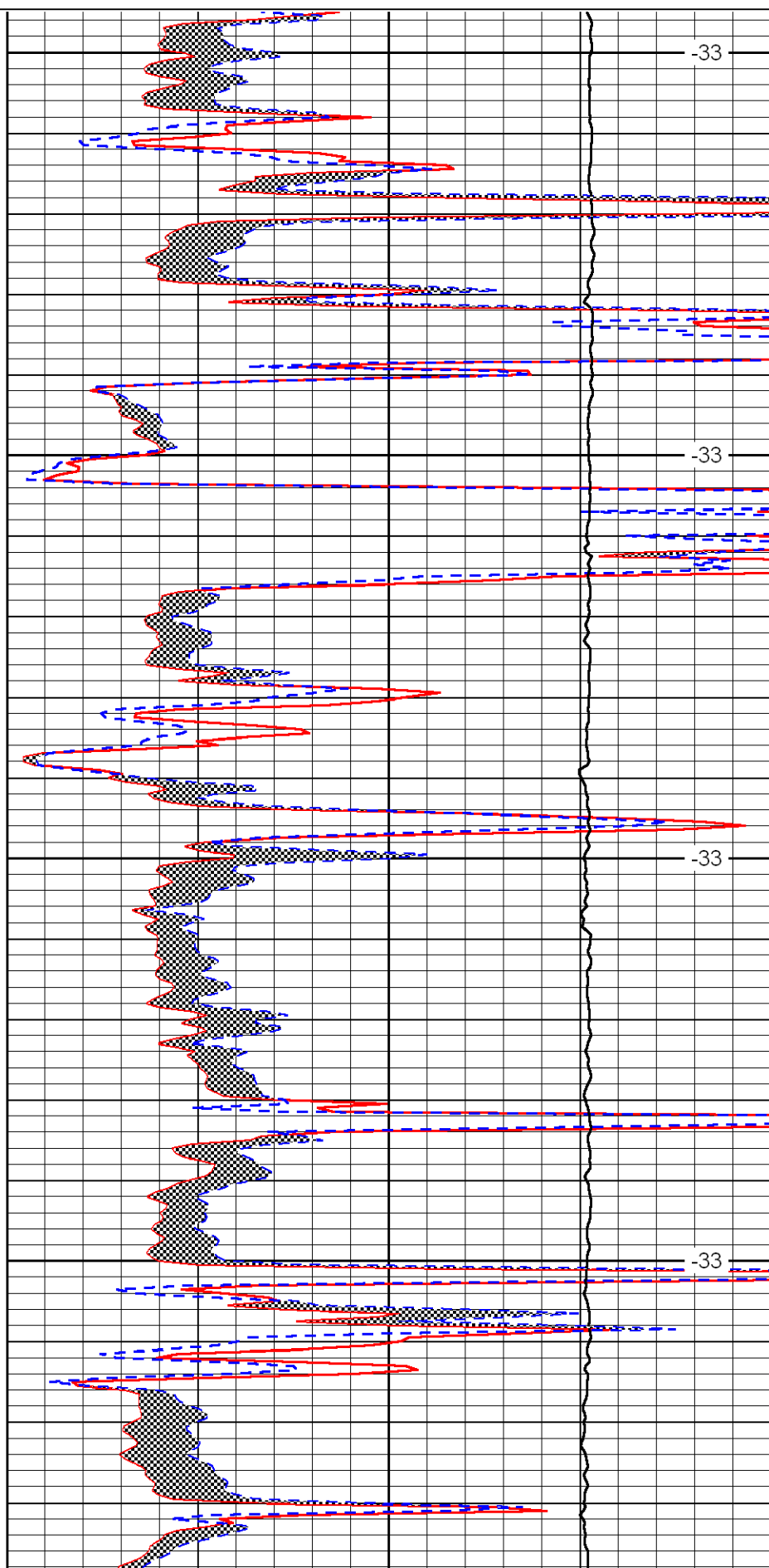
3600

3650

3700

3750

|       |                     |      |
|-------|---------------------|------|
| 0     | Micro Inverse 1 X 1 | 40   |
| 0     | Micro Normal 2"     | 40   |
| 10000 | Line Weight         | 0    |
|       |                     | LSPD |

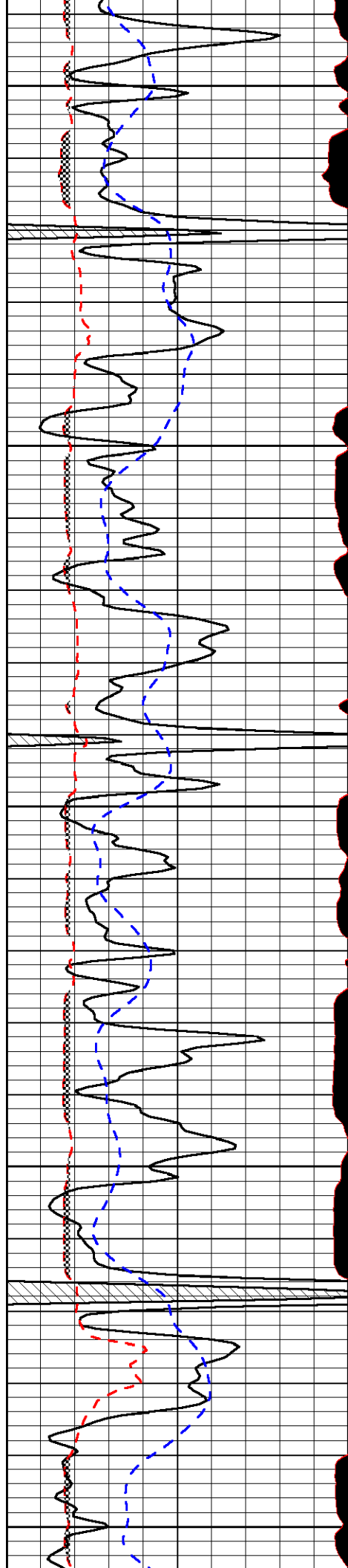


-33

-33

-33

-33



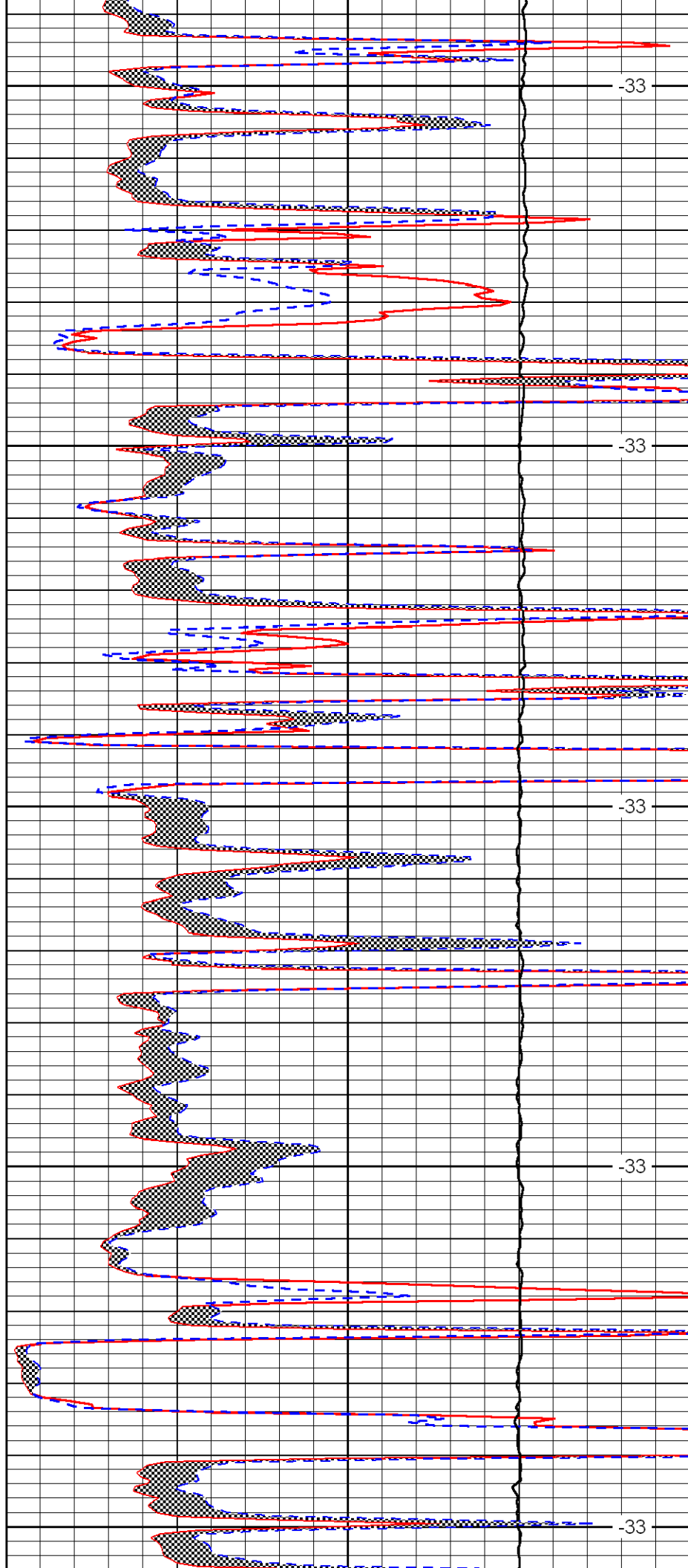
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3850

3900

3950

4000



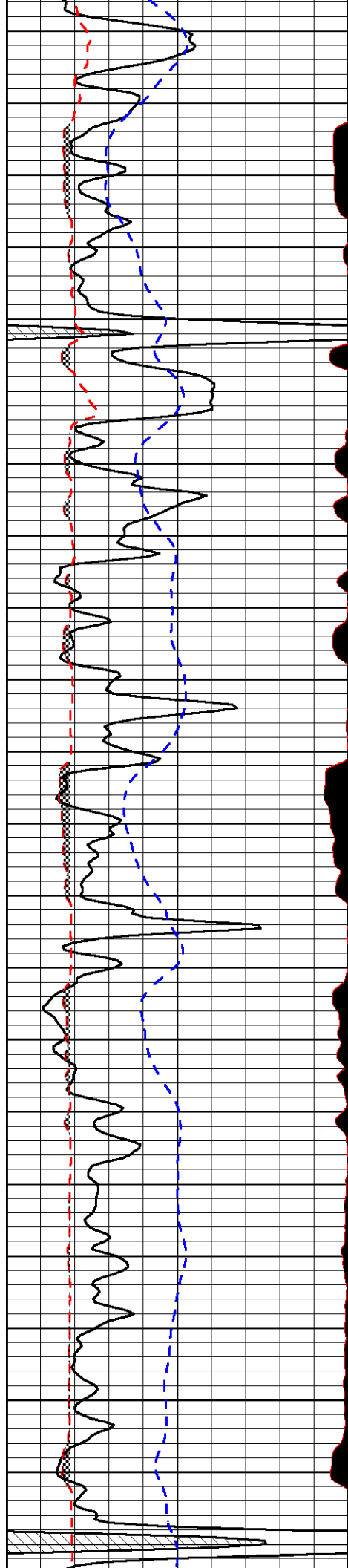
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-33

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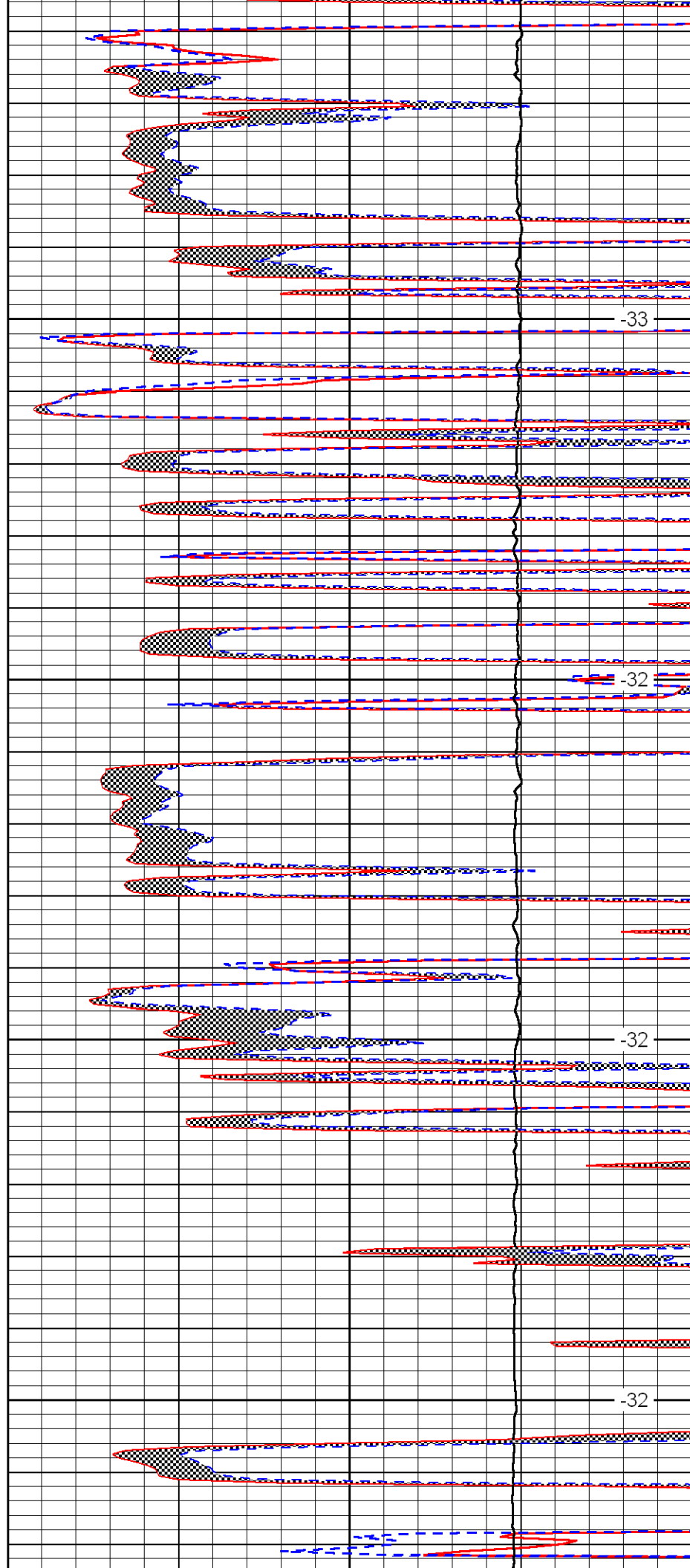


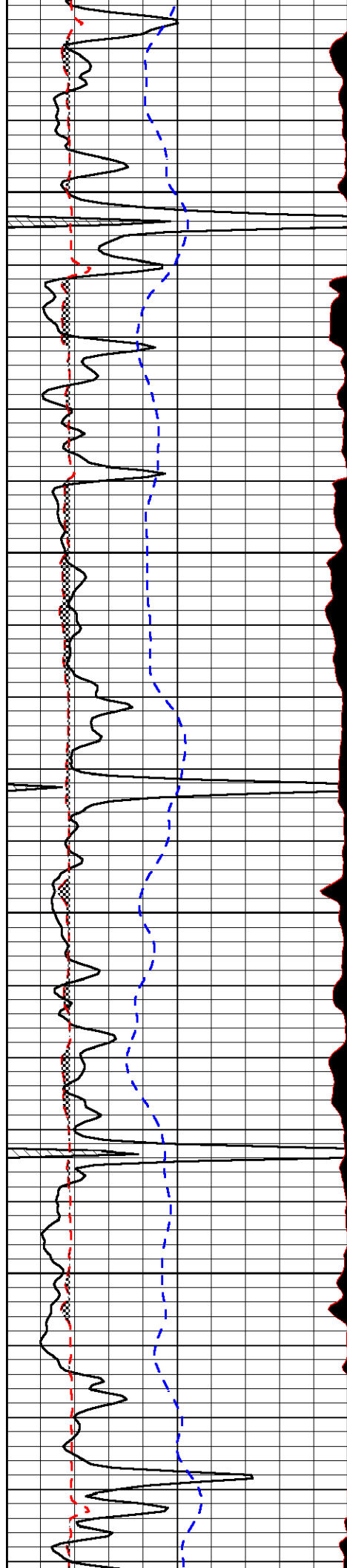
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4100

4150

4200



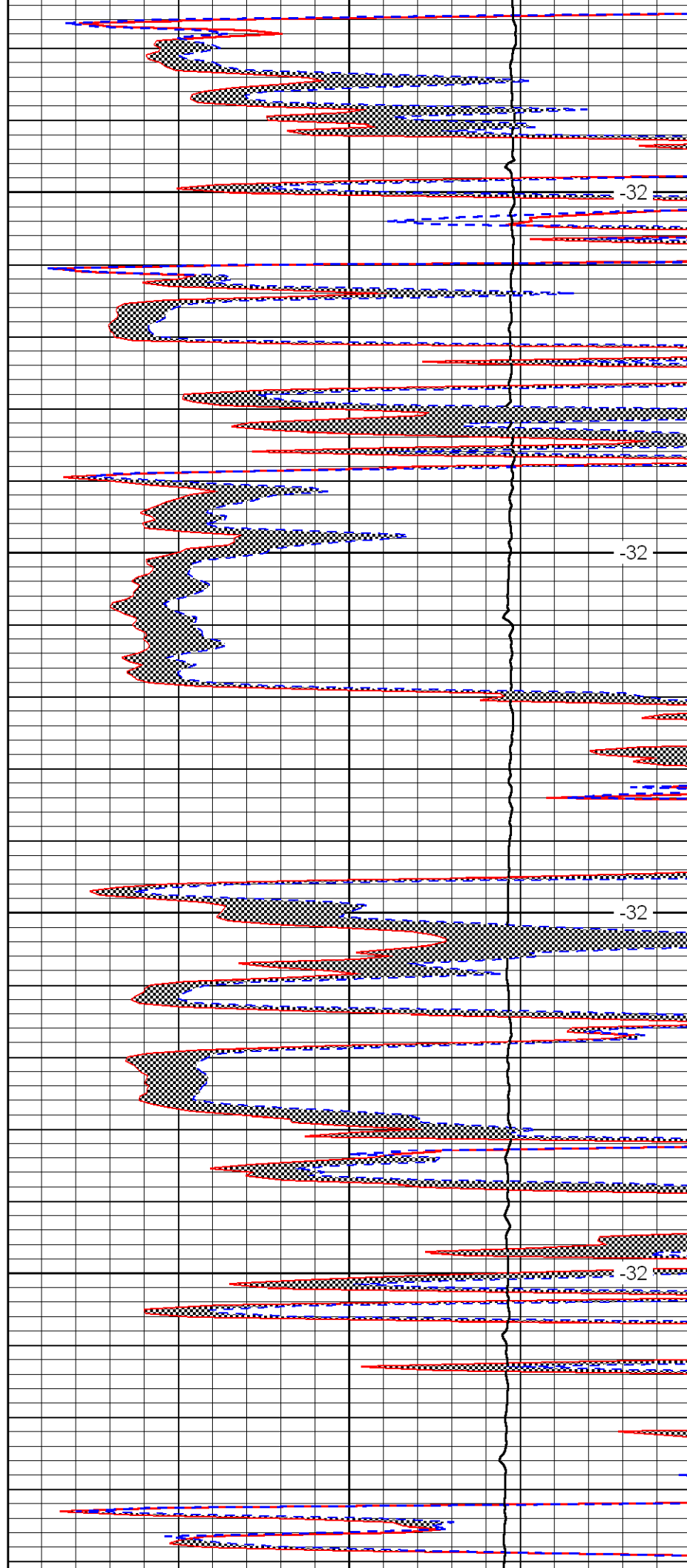


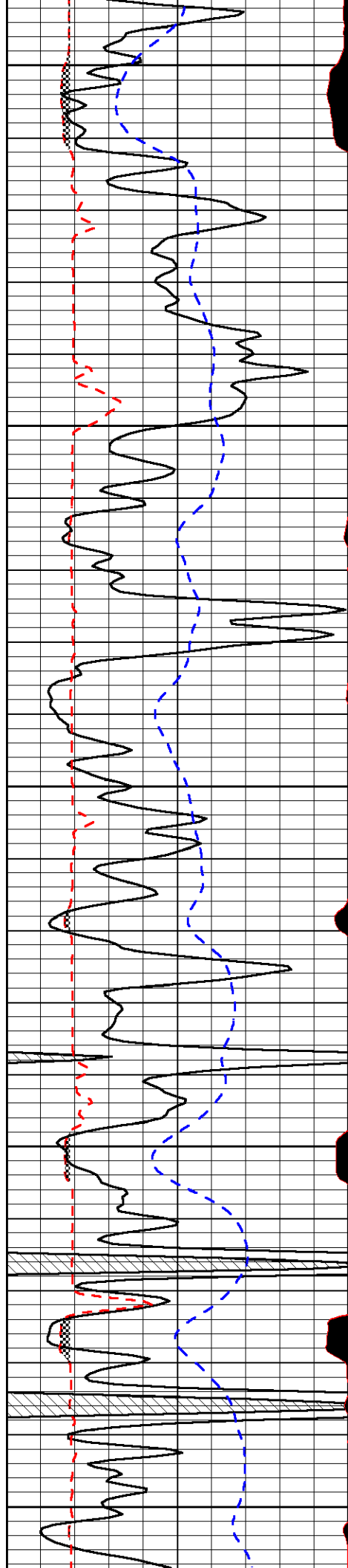
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4350

4400





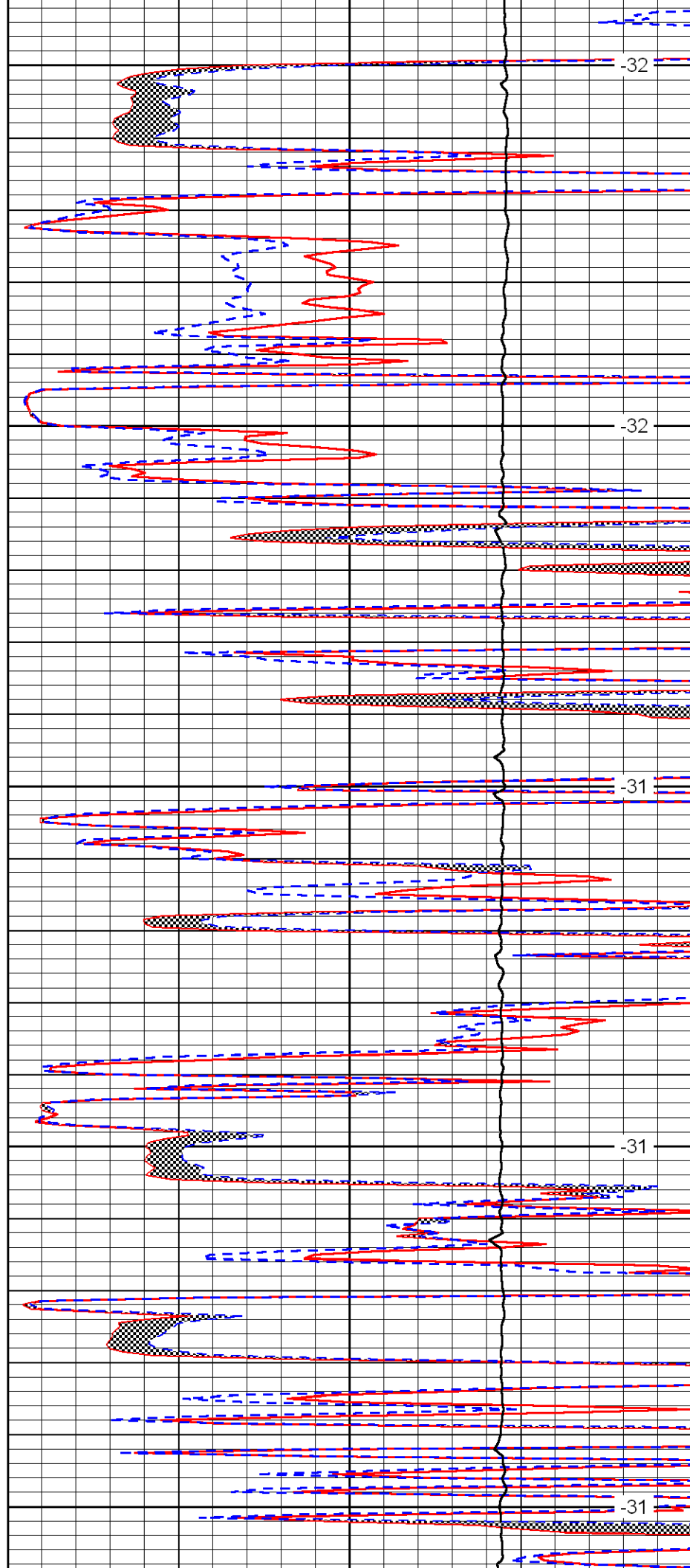
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4500

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4600

4650



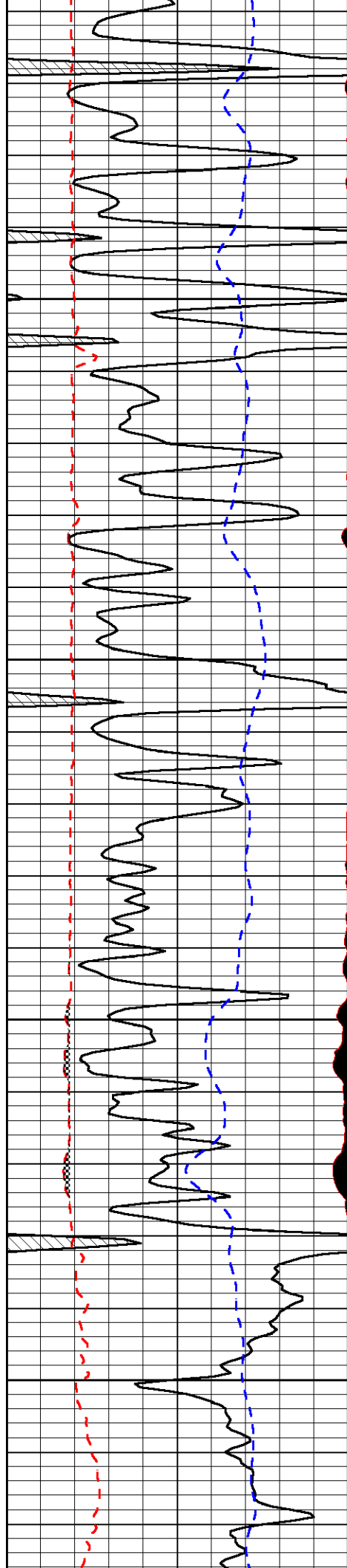
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-32

-31

-31

-31

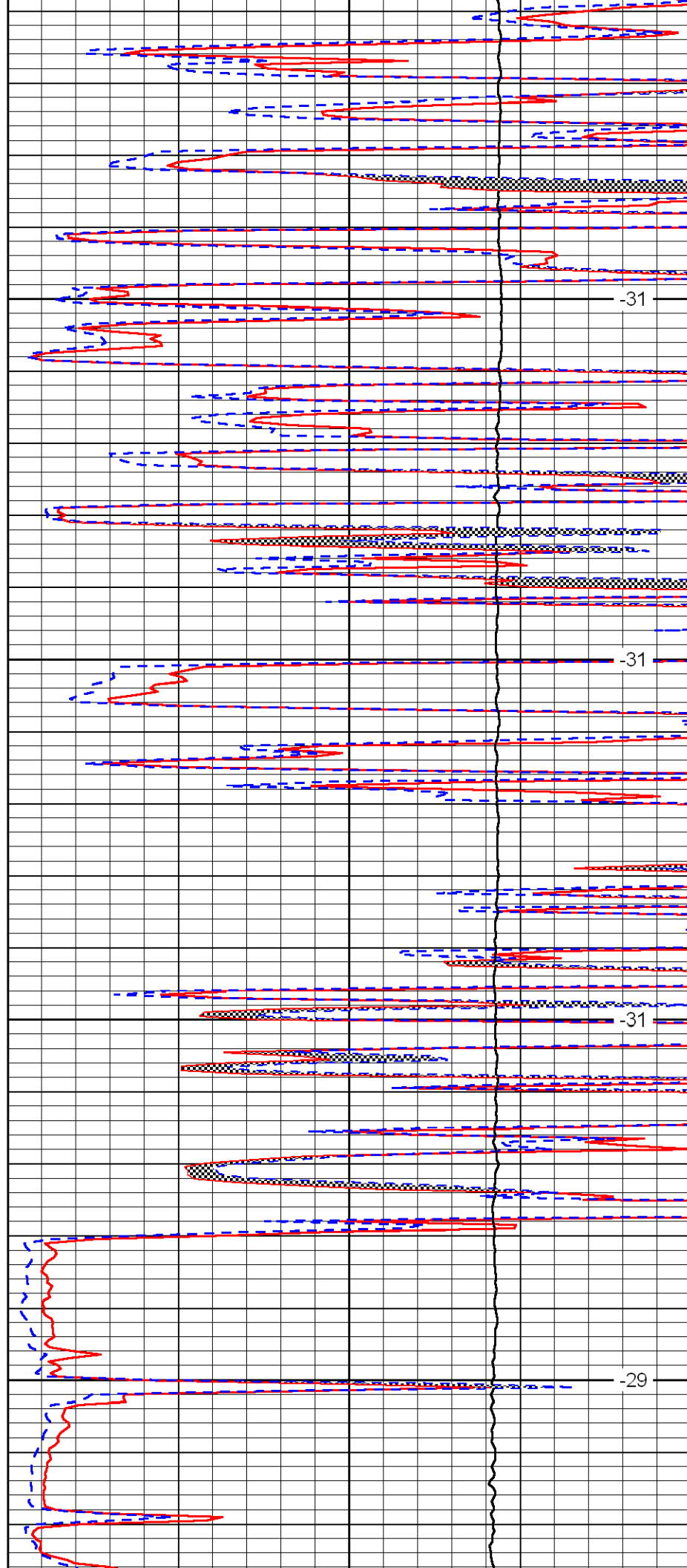


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4750

4800

4850

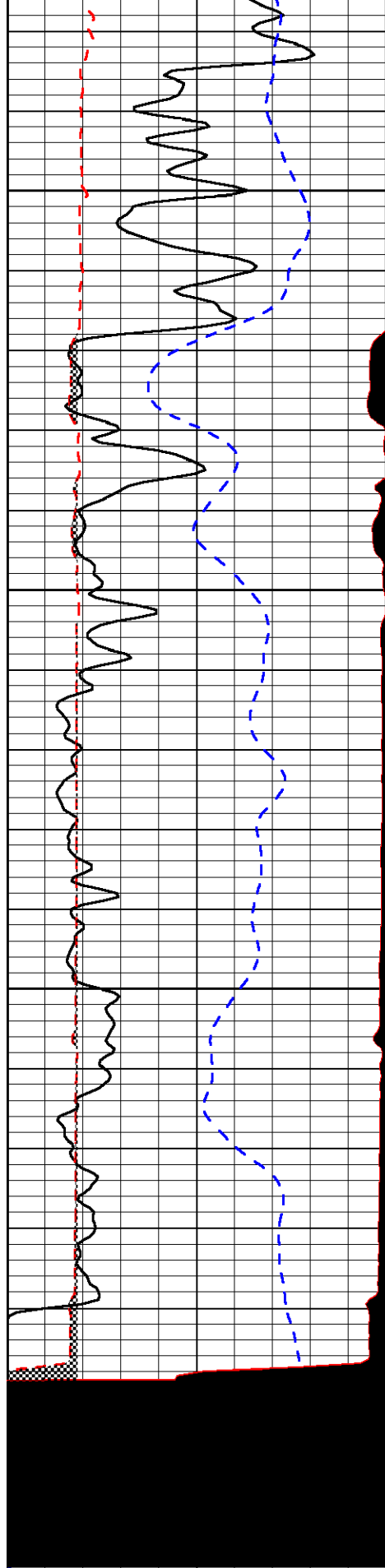


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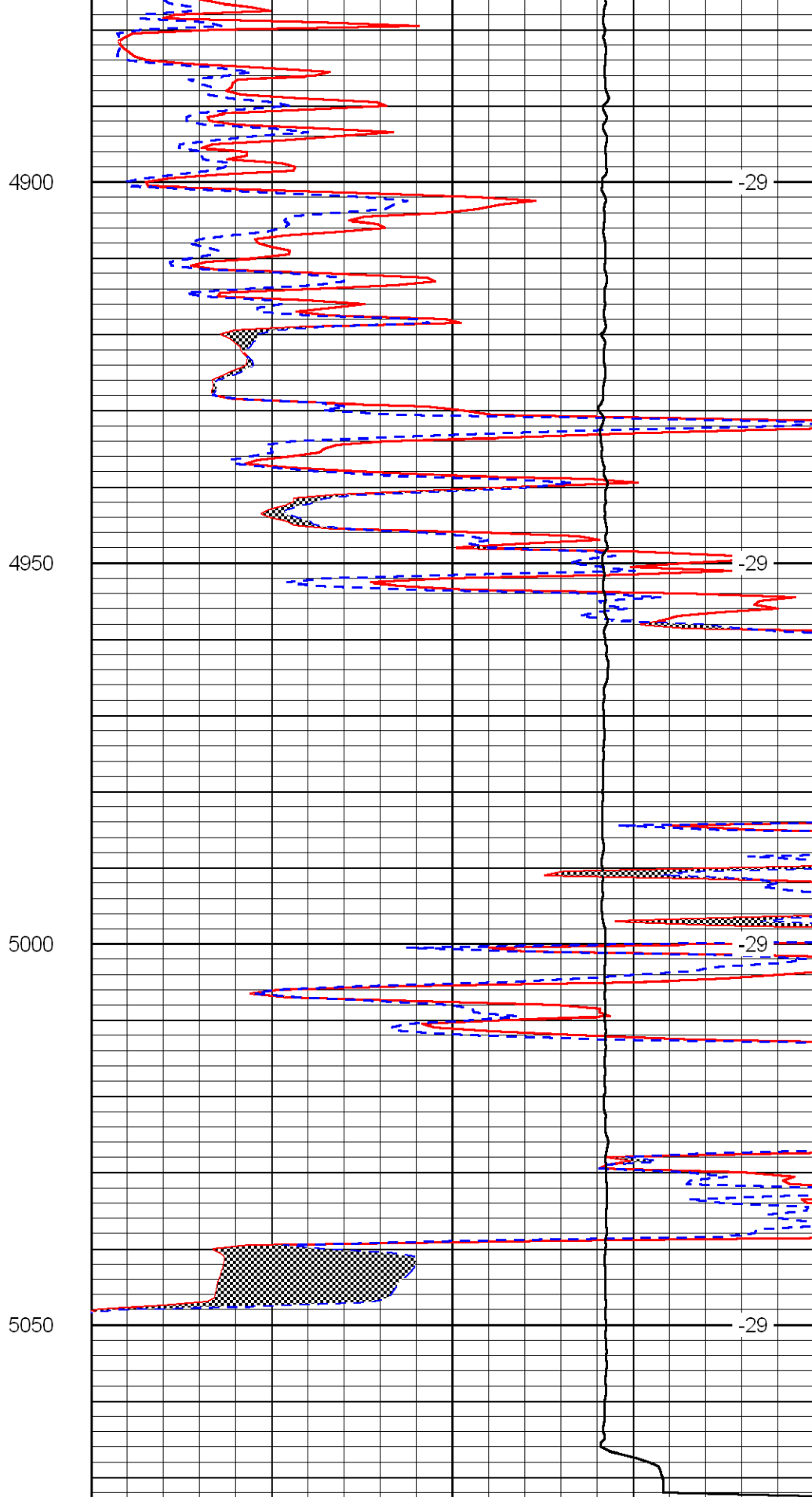
-31

-31

-29



|       |                 |       |
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LSPD



