



# Microresistivity Log

DIGITAL LOG (785) 625-3858

|                                         |  |                                                 |  |
|-----------------------------------------|--|-------------------------------------------------|--|
| API No.<br>15-069-20352-00-00           |  | Company<br>American Warrior, Inc.               |  |
| Well<br>O'Brate #6-4                    |  | Location<br>SW NE SW NW<br>1700' FNL / 750' FWL |  |
| Field<br>Cecil                          |  | Other Services<br>CNL/CDL<br>DIL                |  |
| County<br>Gray                          |  | State<br>Kansas                                 |  |
| Sec: 4                                  |  | Twp: 24S Rge: 29W                               |  |
| Permanent Datum<br>Ground Level         |  | Elevation 2774                                  |  |
| Log Measured From<br>Kelly Bushing      |  | 10 Ft. Above Perm. Datum                        |  |
| Drilling Measured From<br>Kelly Bushing |  | K.B. 2784<br>D.F. 2774<br>G.L. 2774             |  |
| Date<br>10/29/2011                      |  |                                                 |  |
| Run Number<br>Two                       |  |                                                 |  |
| Depth Driller<br>4880                   |  |                                                 |  |
| Depth Logger<br>4881                    |  |                                                 |  |
| Bottom Logged Interval<br>4880          |  |                                                 |  |
| Top Log Interval<br>3800                |  |                                                 |  |
| Casing Driller<br>8.625 @ 523           |  |                                                 |  |
| Casing Logger<br>520                    |  |                                                 |  |
| Bit Size<br>7.875                       |  |                                                 |  |
| Type Fluid in Hole<br>Chemical          |  |                                                 |  |
| Salinity, ppm CL<br>2200                |  |                                                 |  |
| Density / Viscosity<br>9.3 49           |  |                                                 |  |
| pH / Fluid Loss<br>9.0 7.6              |  |                                                 |  |
| Source of Sample<br>Flowline            |  |                                                 |  |
| Rm @ Meas. Temp<br>1.50 @ 65            |  |                                                 |  |
| Rmf @ Meas. Temp<br>1.13 @ 65           |  |                                                 |  |
| Rmc @ Meas. Temp<br>2.03 @ 65           |  |                                                 |  |
| Source of Rmf / Rmc<br>Charts           |  |                                                 |  |
| Rm @ BHT<br>0.78 @ 125                  |  |                                                 |  |
| Operating Rig Time<br>5 Hours           |  |                                                 |  |
| Max Rec. Temp. F<br>125                 |  |                                                 |  |
| Equipment Number<br>15                  |  |                                                 |  |
| Location<br>Hays                        |  |                                                 |  |
| Recorded By<br>R. Barnhart              |  |                                                 |  |
| Witnessed By<br>Harley Sayles           |  |                                                 |  |

<<< Fold Here >>>

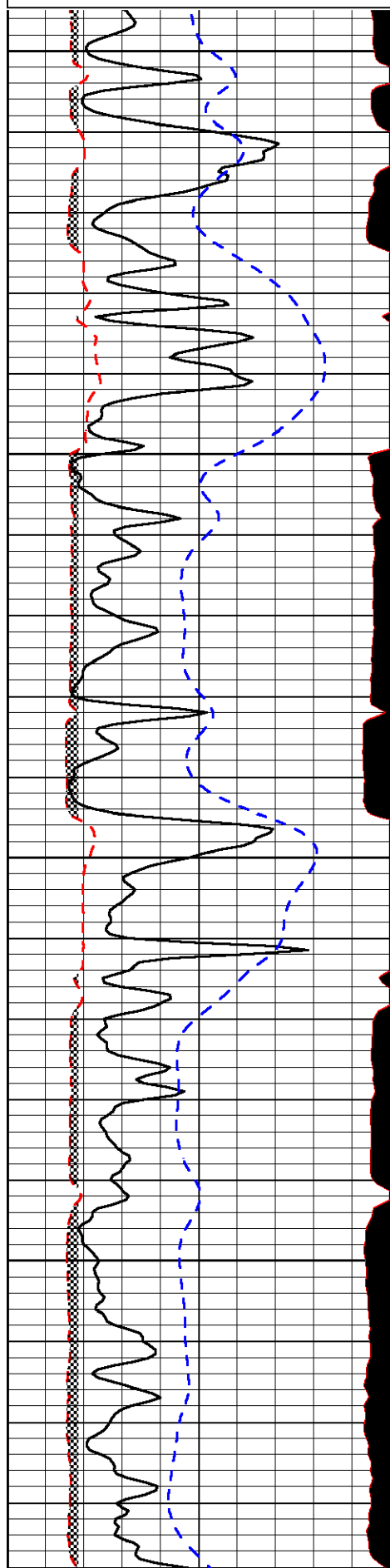
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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

S of Dighton, KS:  
Intersection of Hwy 156 & 23:  
3W 4S E into  
Thank you for using Log-Tech, Inc.  
(785) 625-3858

Database File: amwarhd.db  
Dataset Pathname: dil/amwmain  
Presentation Format: micro  
Dataset Creation: Sun Oct 30 02:50:10 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     |



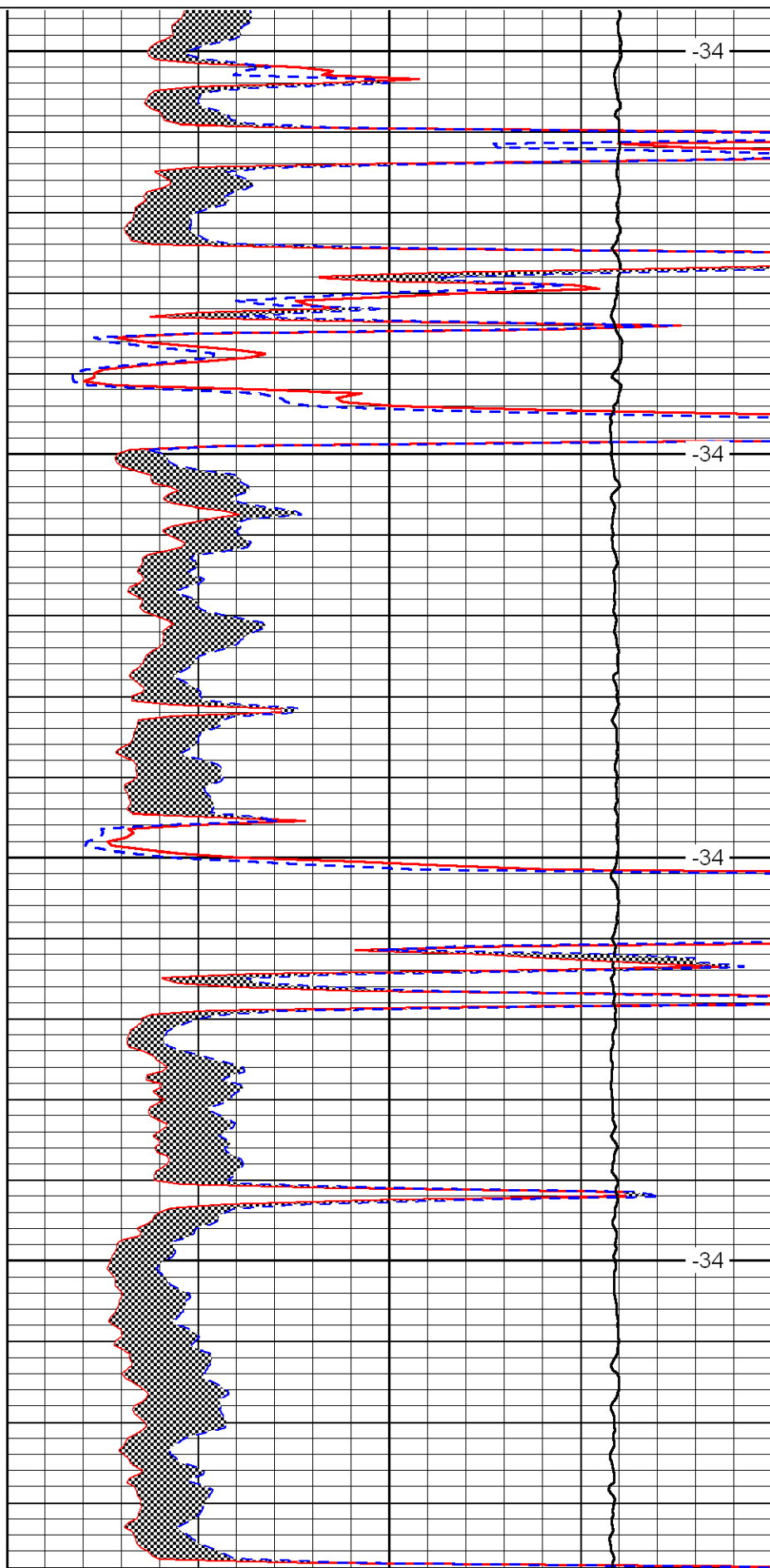
3800

3850

3900

3950

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

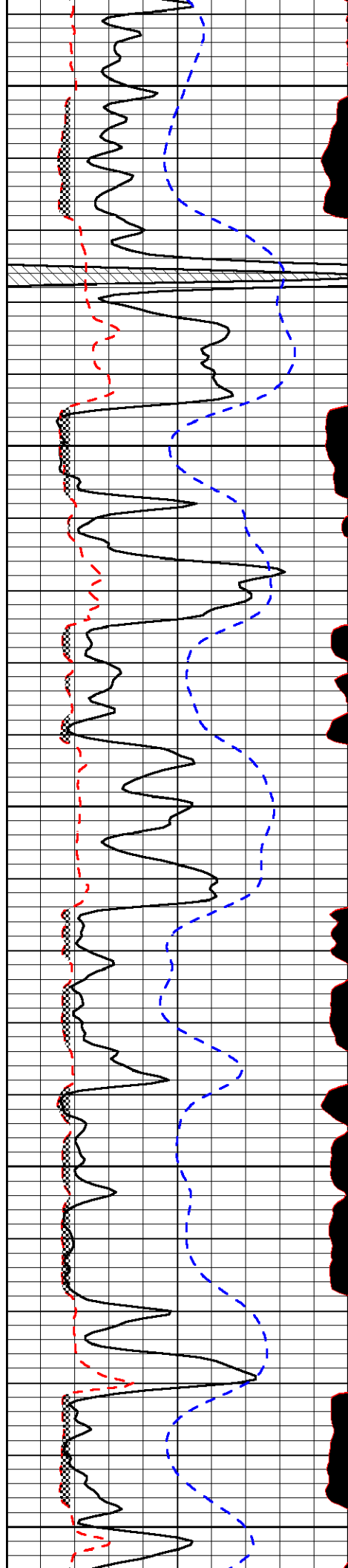


-34

-34

-34

-34



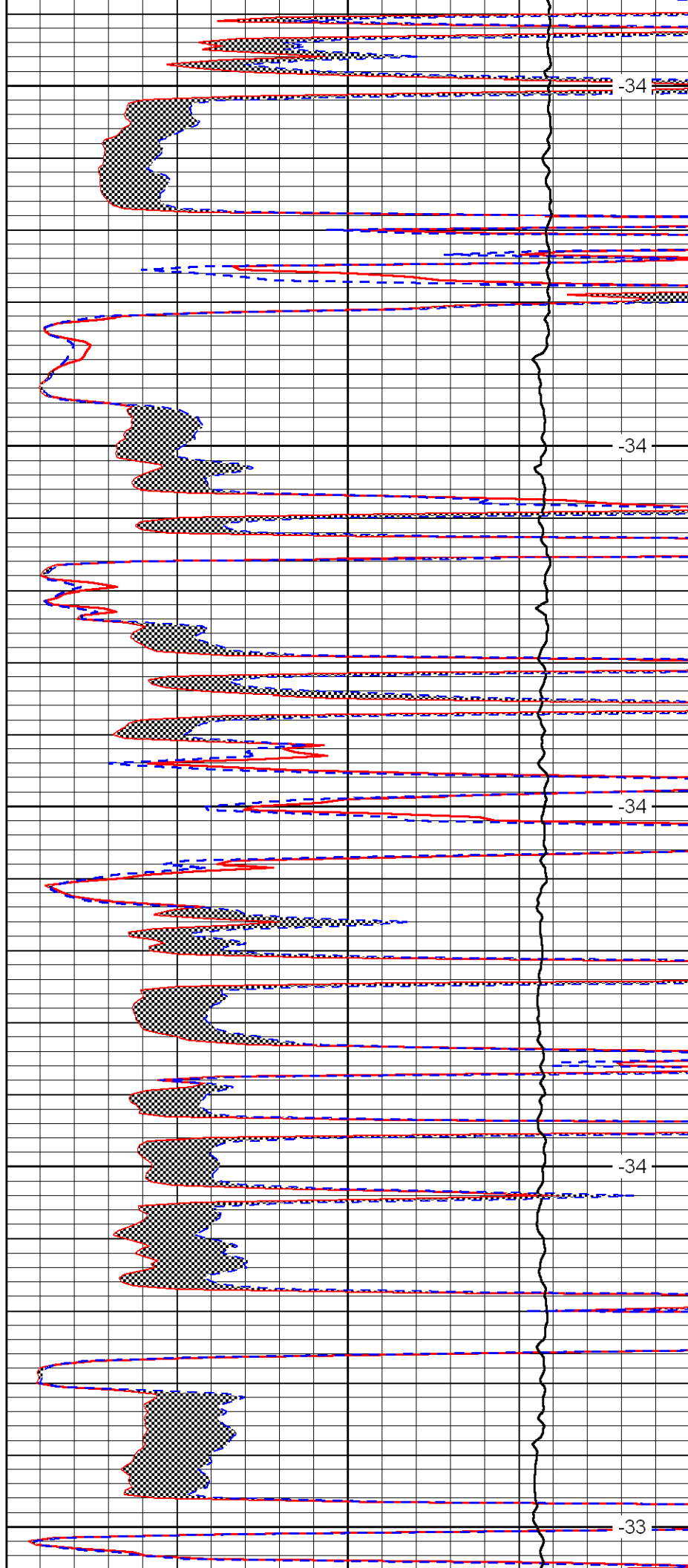
4000

4050

4100

4150

4200



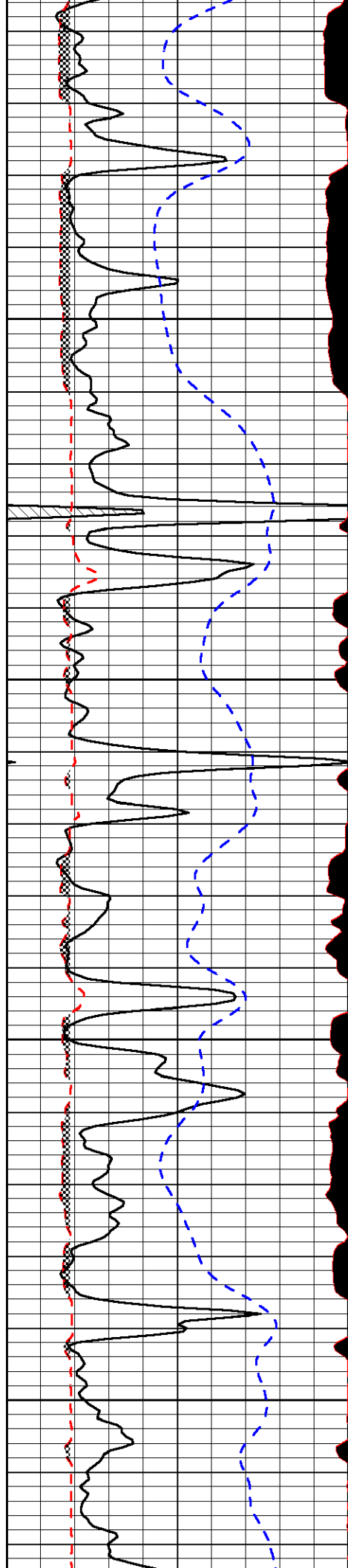
-34

-34

-34

-34

-33

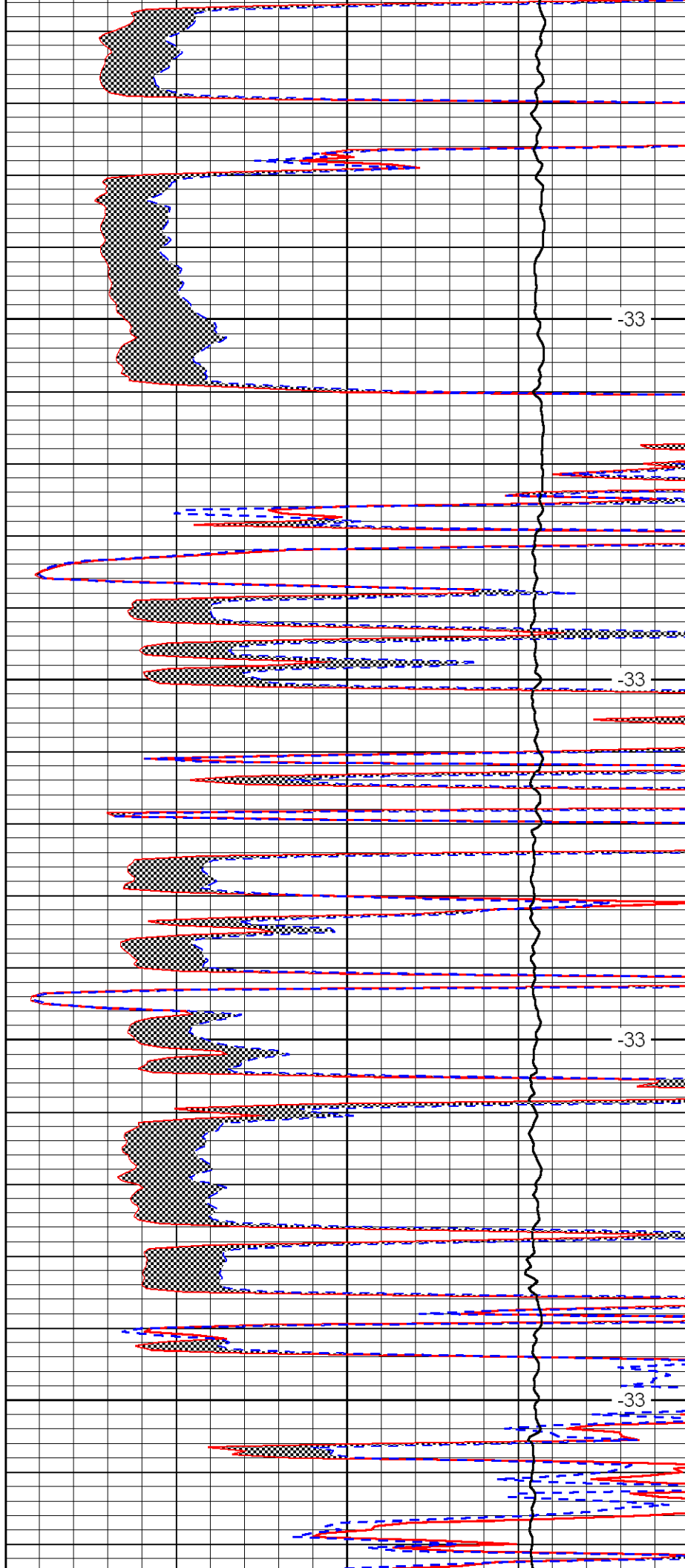


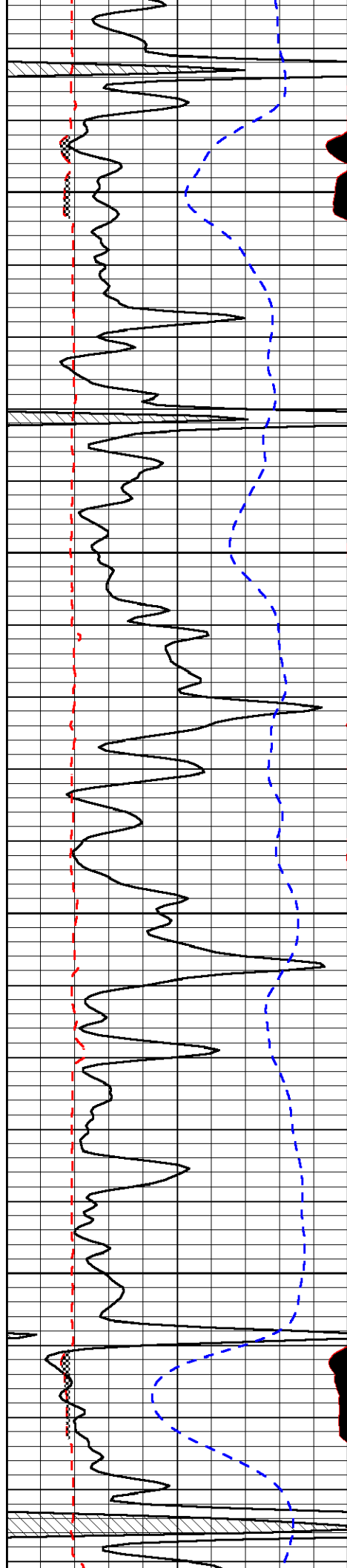
4250

4300

4350

4400



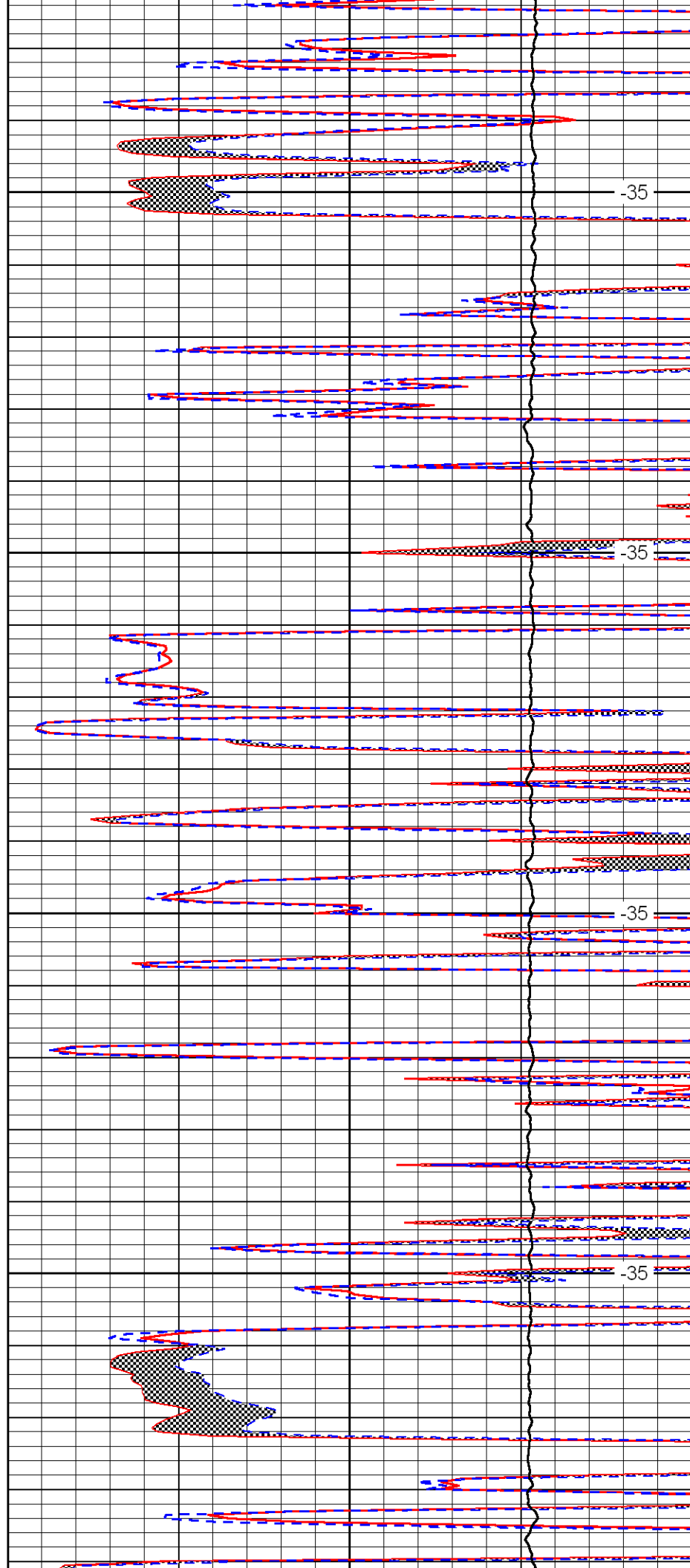


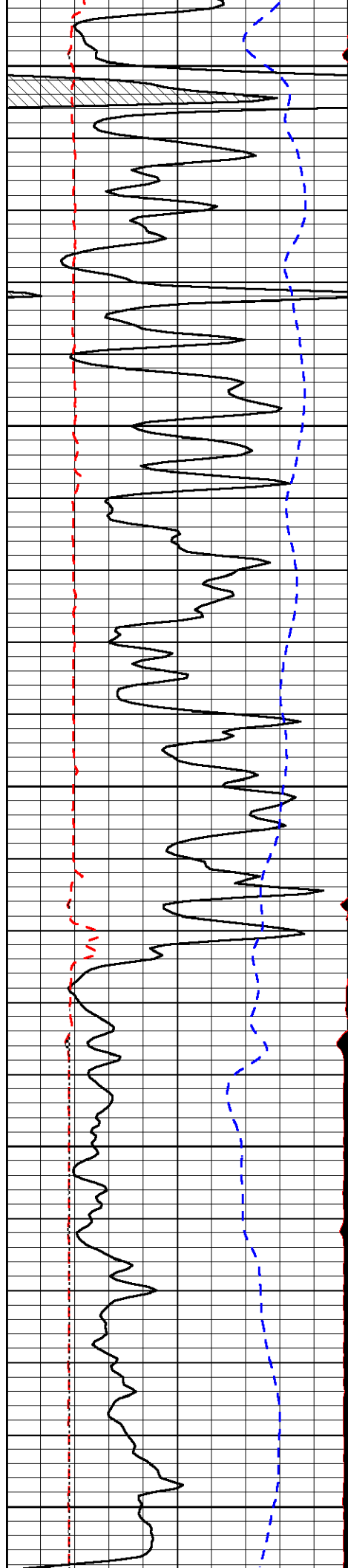
4450

4500

4550

4600





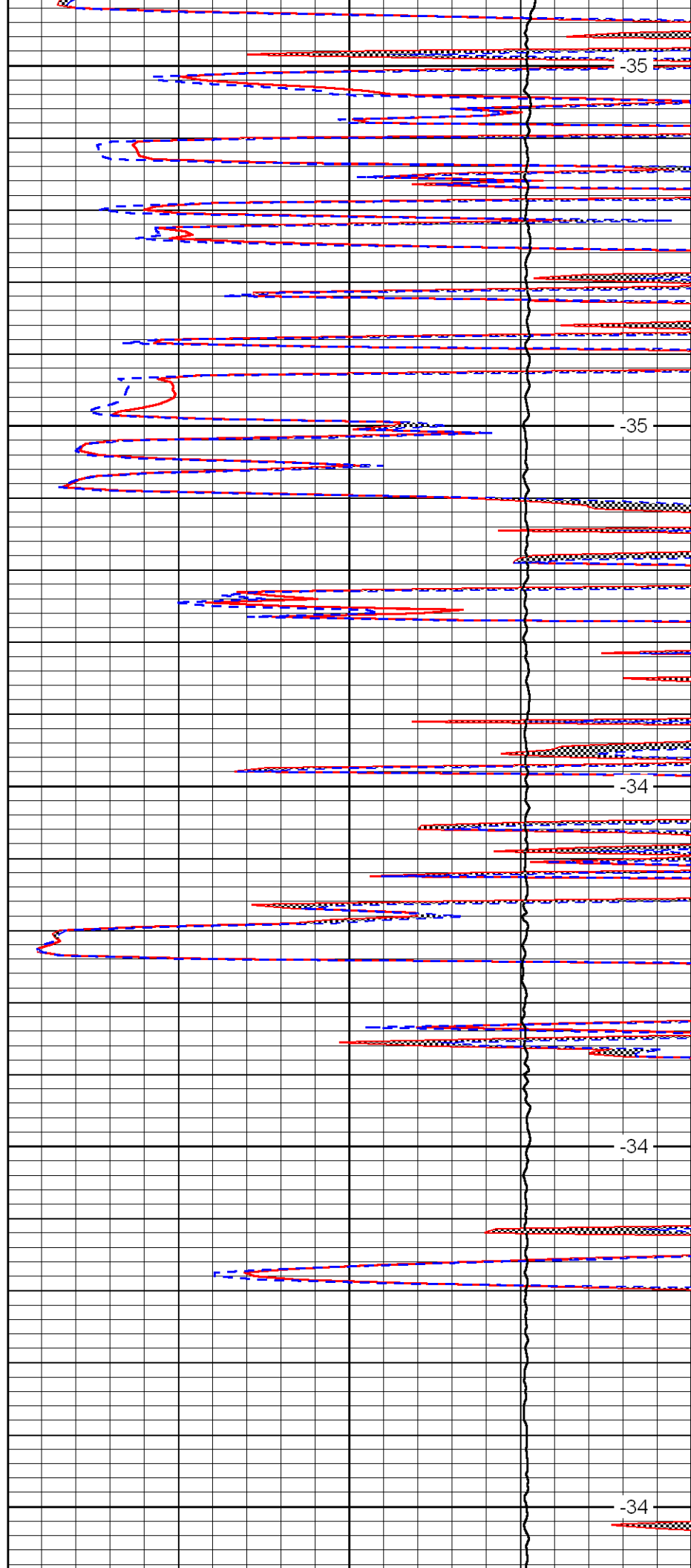
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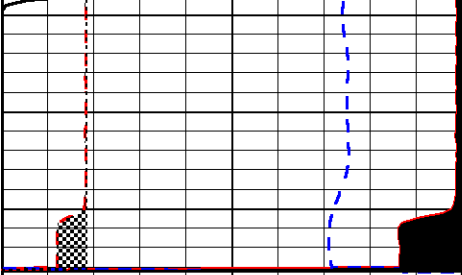
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4750

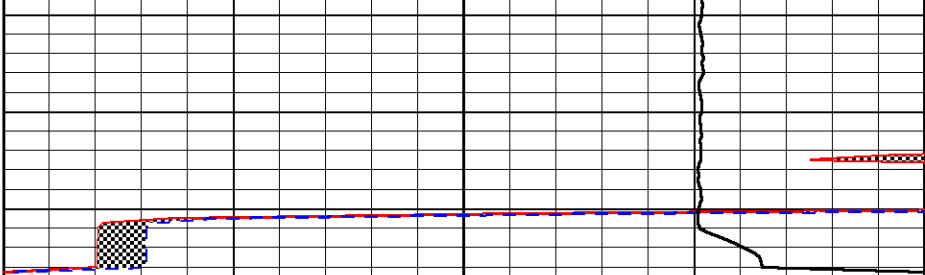
4800

4850





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