



# Microresistivity Log

DIGITAL LOG (785) 625-3858

|                                      |              |                                  |  |
|--------------------------------------|--------------|----------------------------------|--|
| API No.                              |              | Company Larson Engineering, Inc. |  |
| 15-101-22,226-00-00                  |              | Well Joyce No. 1-17              |  |
| Field Hiney                          |              | County Lane State Kansas         |  |
| Location 273' FNL & 2000' FWL        |              | Other Services CNL/CDL DIL       |  |
| Sec: 17 Twp: 19 S Rge: 28 W          |              | Elevation                        |  |
| Permanent Datum Ground Level         |              | K.B. 2784                        |  |
| Log Measured From Kelly Bushing      |              | D.F. 2777                        |  |
| Drilling Measured From Kelly Bushing |              | G.L. 2777                        |  |
| Date                                 | 5/13/2010    |                                  |  |
| Run Number                           | Two          |                                  |  |
| Depth Driller                        | 4670         |                                  |  |
| Depth Logger                         | 4668         |                                  |  |
| Bottom Logged Interval               | 4667         |                                  |  |
| Top Log Interval                     | 3600         |                                  |  |
| Casing Driller                       | 8.625 @ 261  |                                  |  |
| Casing Logger                        | 259          |                                  |  |
| Bit Size                             | 7.875        |                                  |  |
| Type Fluid in Hole                   | Chemical     |                                  |  |
| Salinity, ppm CL                     | 2,500        |                                  |  |
| Density / Viscosity                  | 9.2 53       |                                  |  |
| pH / Fluid Loss                      | 9.5 9.2      |                                  |  |
| Source of Sample                     | Flowline     |                                  |  |
| Rm @ Meas. Temp                      | 1.2 @ 65     |                                  |  |
| Rmf @ Meas. Temp                     | .9 @ 65      |                                  |  |
| Rmc @ Meas. Temp                     | 1.62 @ 65    |                                  |  |
| Source of Rmf / Rmc                  | Charts       |                                  |  |
| Rm @ BHT                             | .63 @ 125    |                                  |  |
| Operating Rig Time                   | 4 Hours      |                                  |  |
| Max Rec. Temp. F                     | 125          |                                  |  |
| Equipment Number                     | 007          |                                  |  |
| Location                             | Hays         |                                  |  |
| Recorded By                          | K. Bange     |                                  |  |
| Witnessed By                         | Bob Lewellyn |                                  |  |

<<< Fold Here >>>

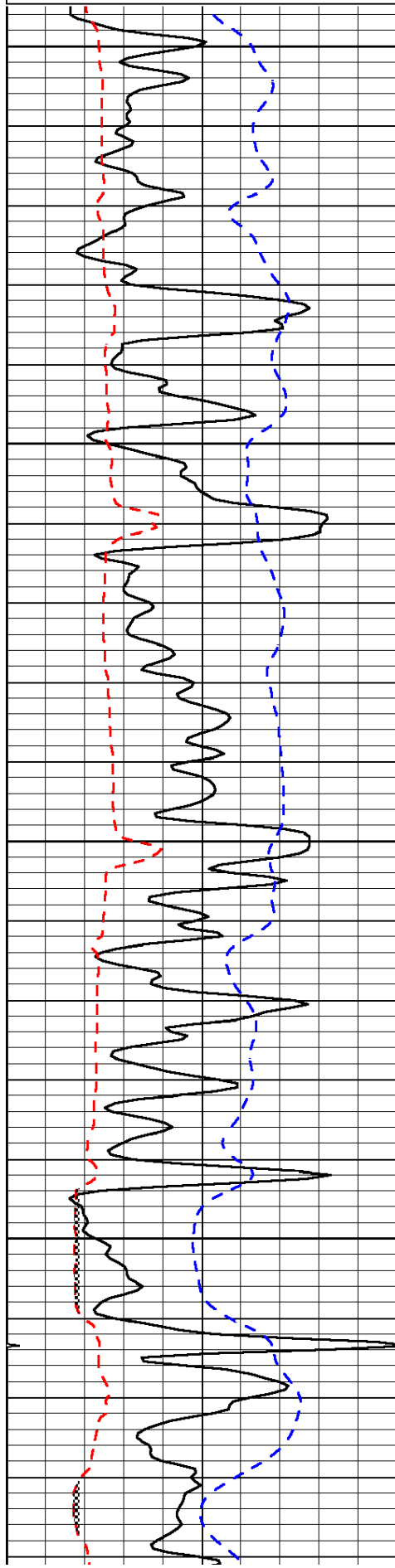
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

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

Dighton, 3 S to 120 rd, 1 E, 3 S, E into

|      |                          |     |
|------|--------------------------|-----|
| 0    | Gamma Ray                | 150 |
| 6    | Micro Log Caliper (GAPI) | 16  |
| -200 | SP (mV)                  | 0   |



3600

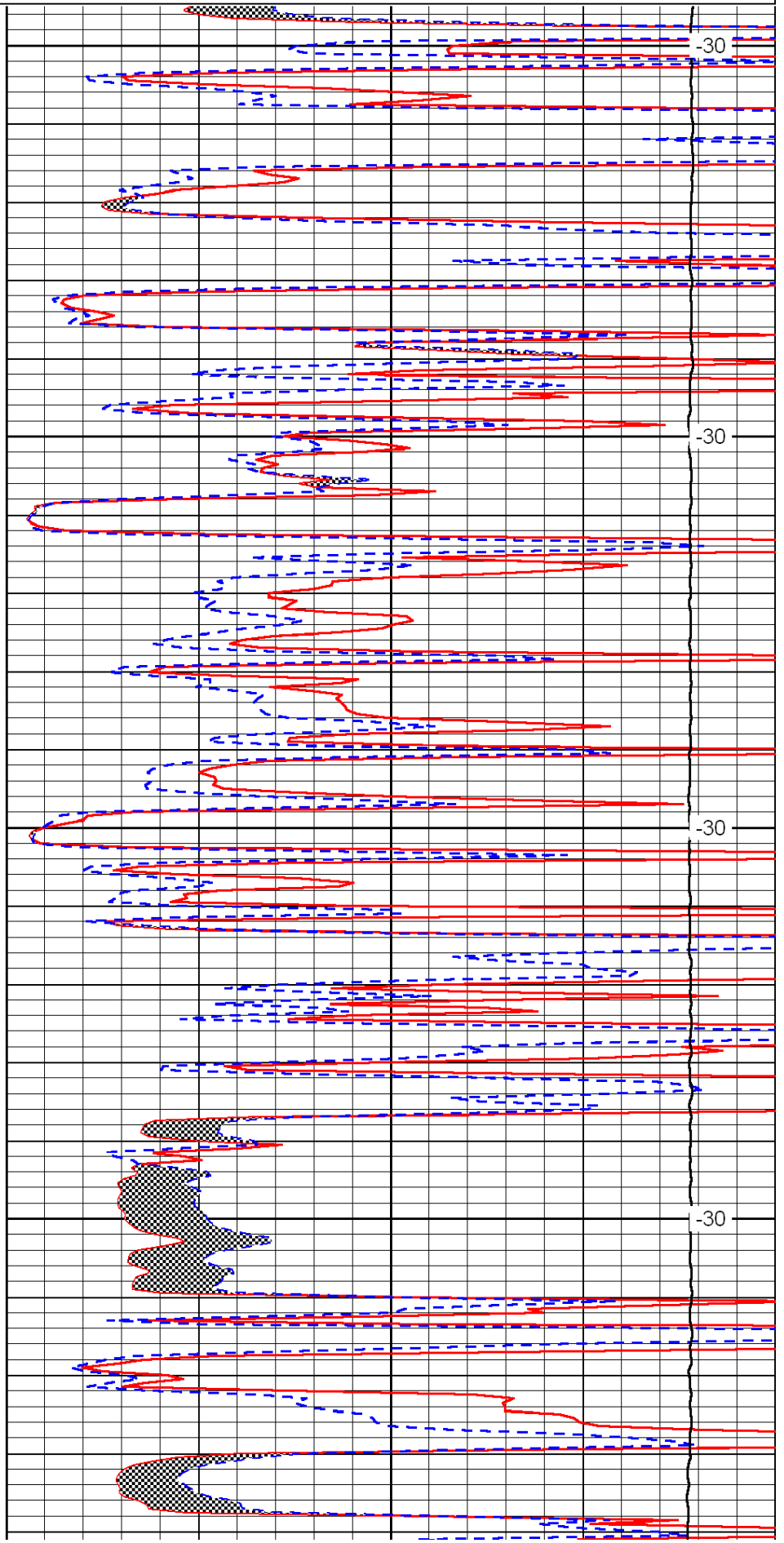
3650

3700

3750

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

LSPD

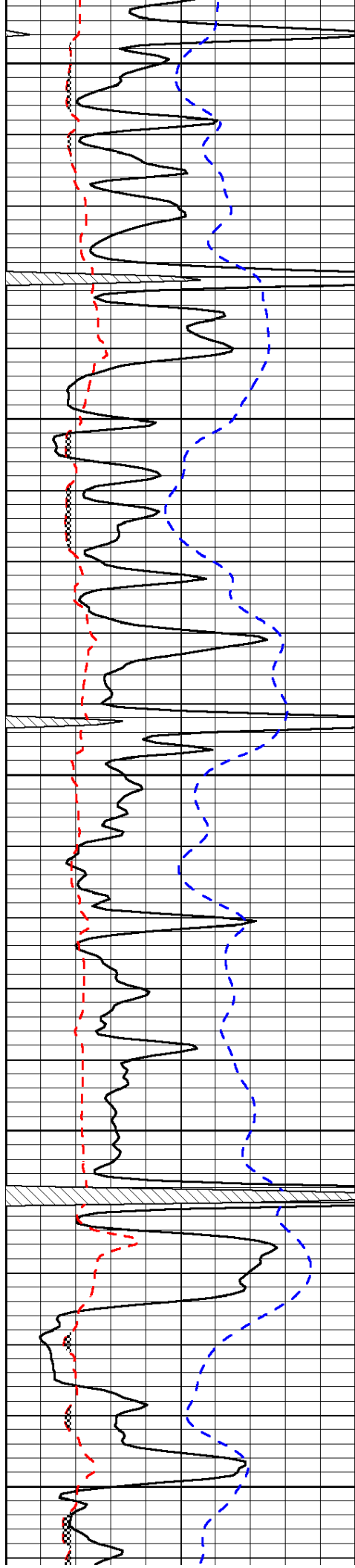


-30

-30

-30

-30



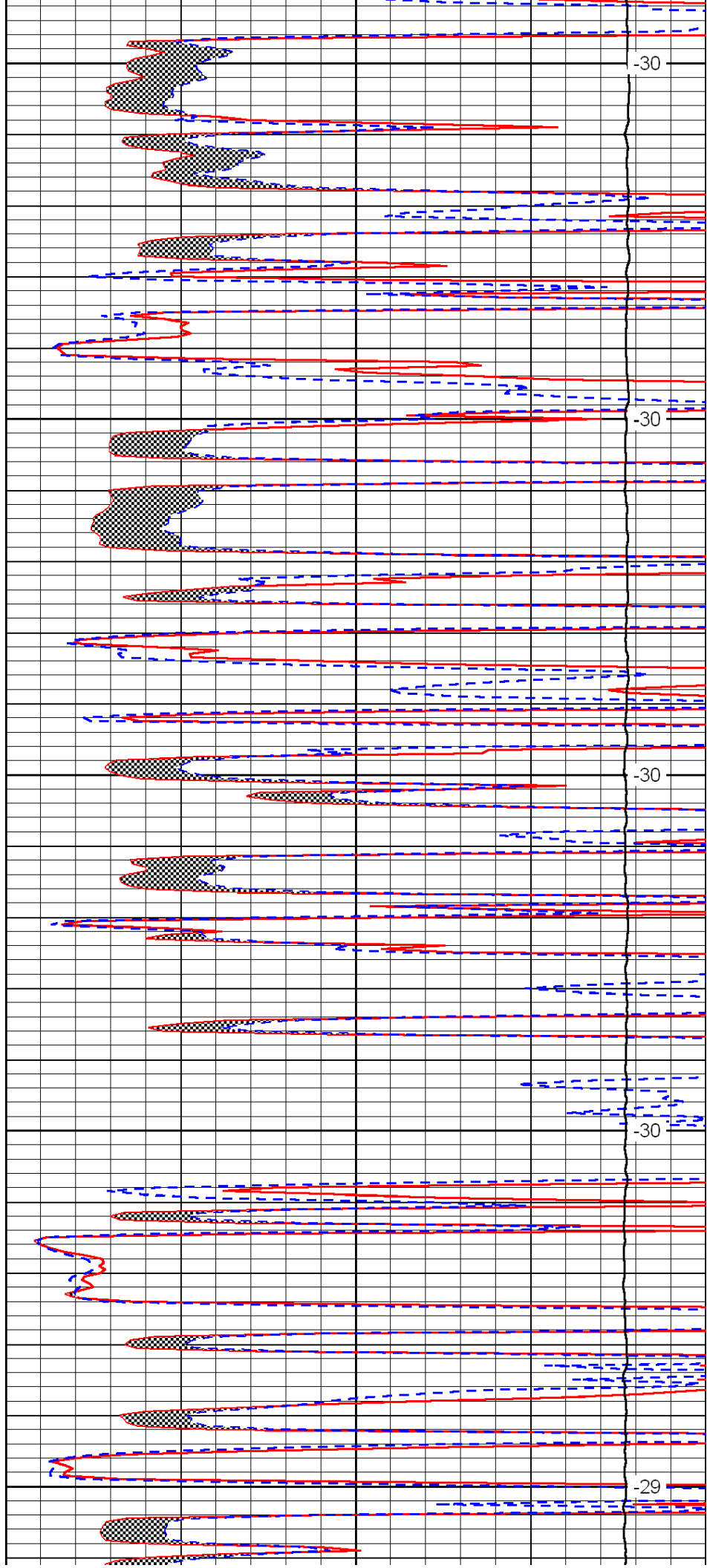
3800

3850

3900

3950

4000



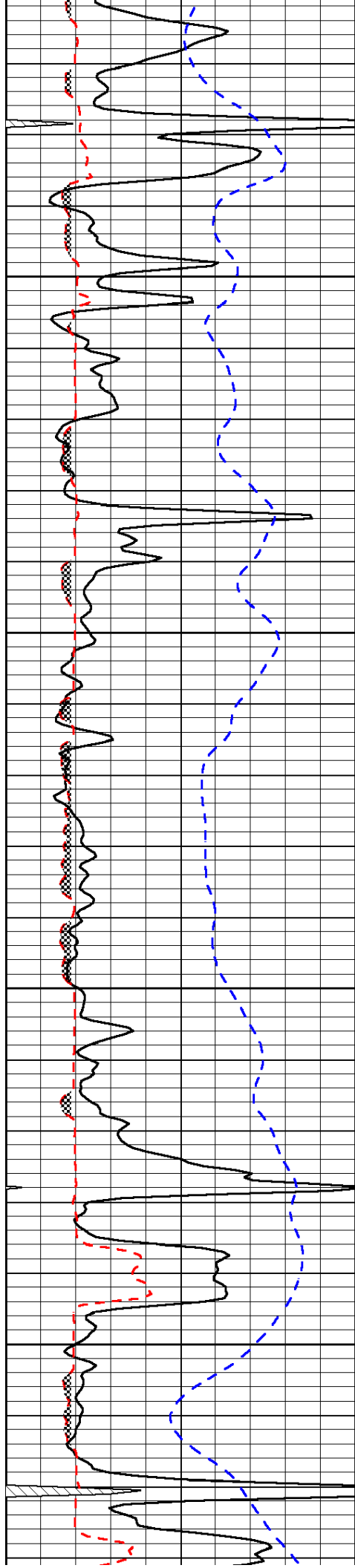
-30

-30

-30

-30

-29

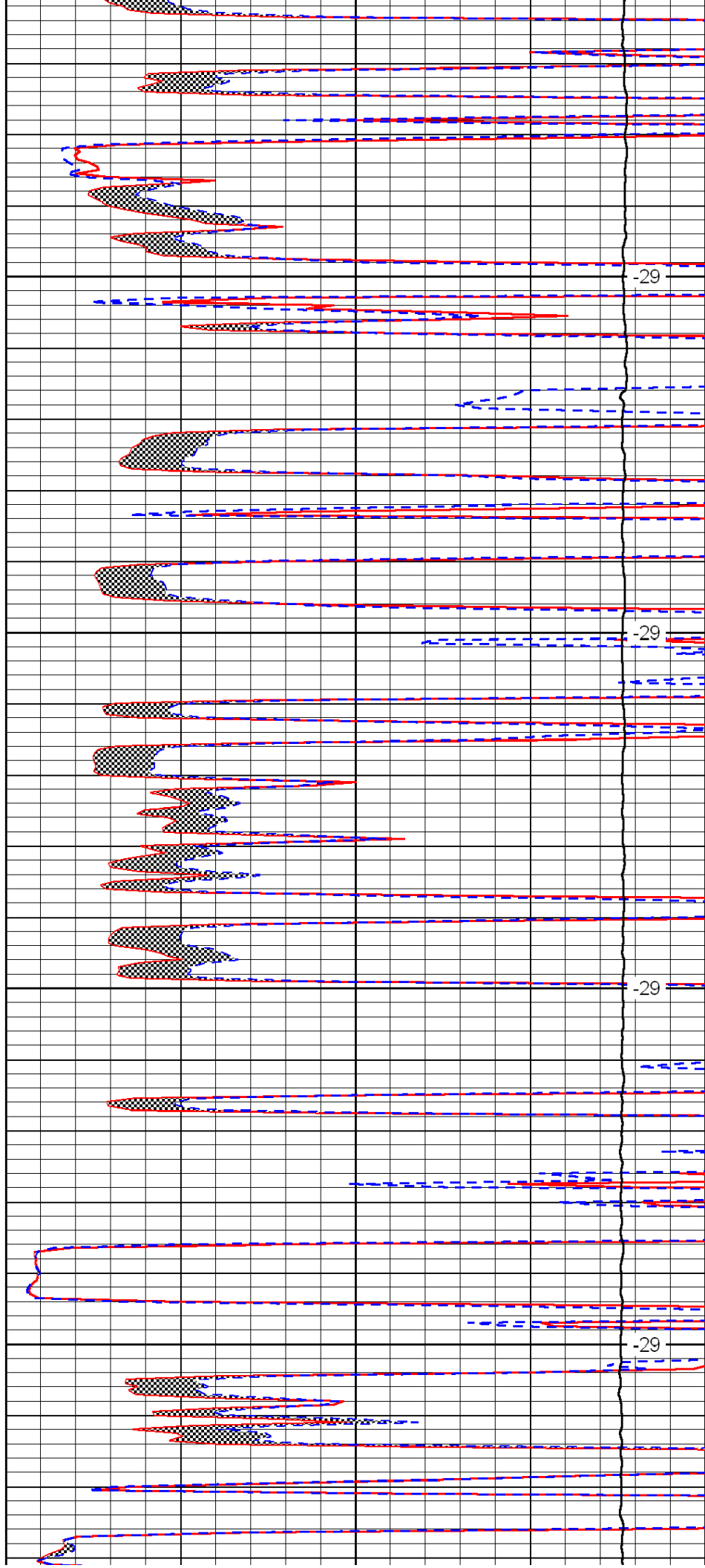


4050

4100

4150

4200

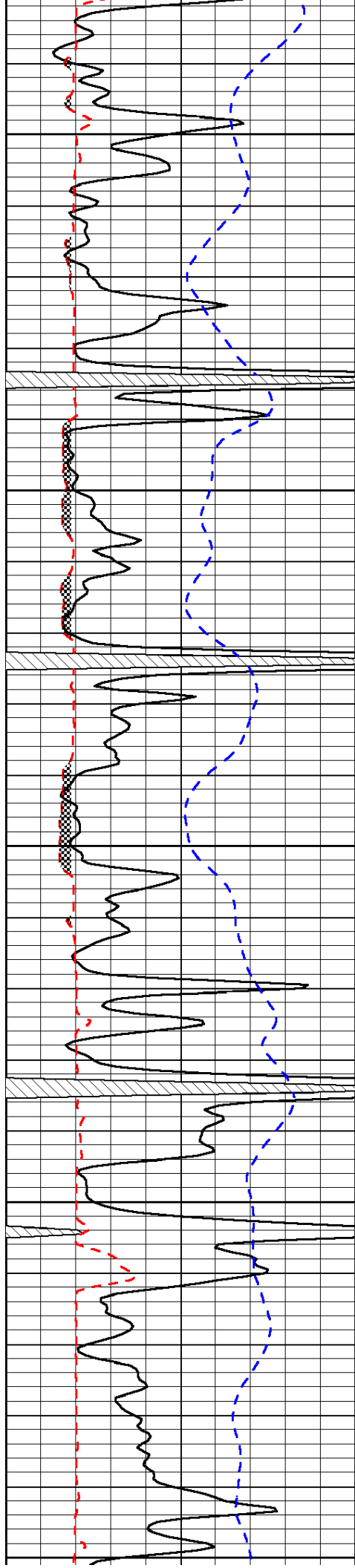


-29

-29

-29

-29



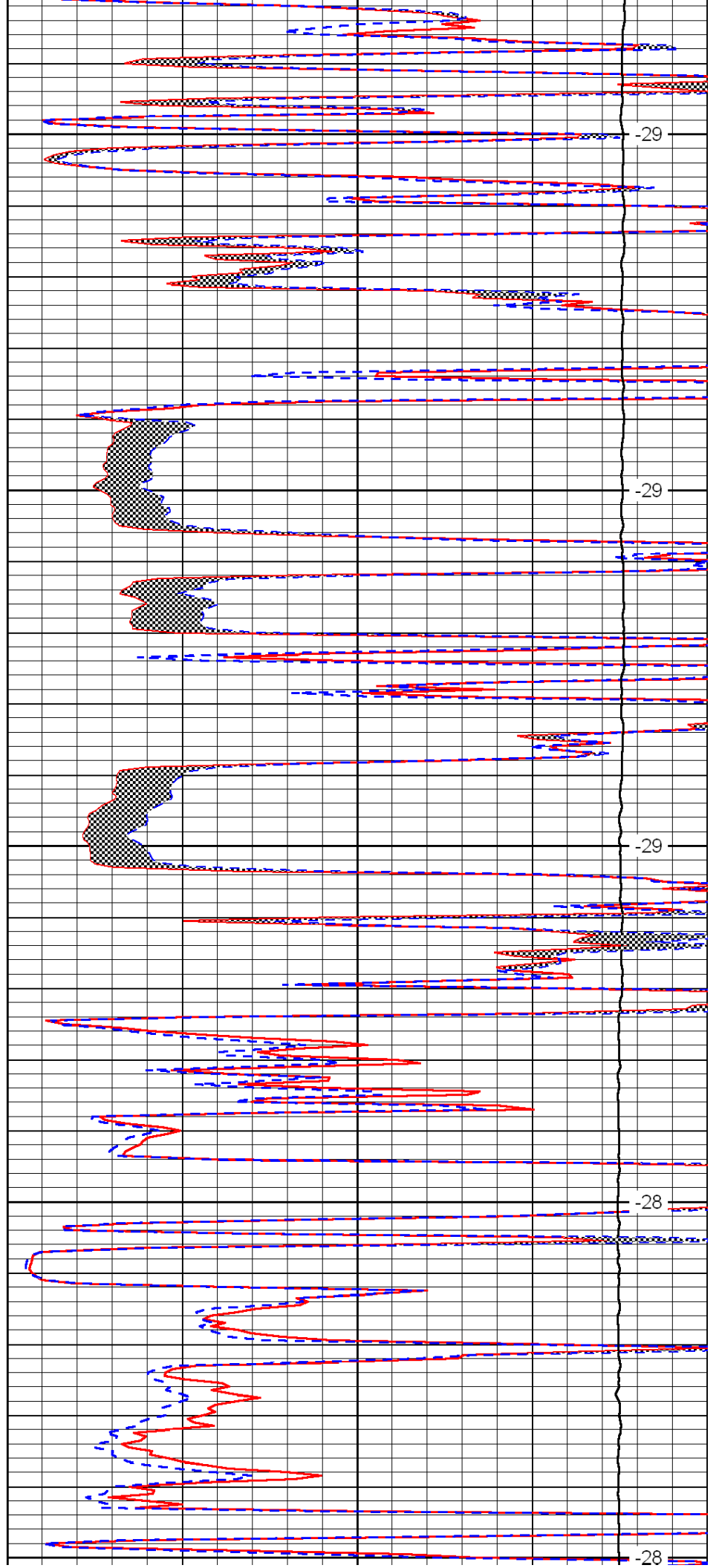
4250

4300

4350

4400

4450



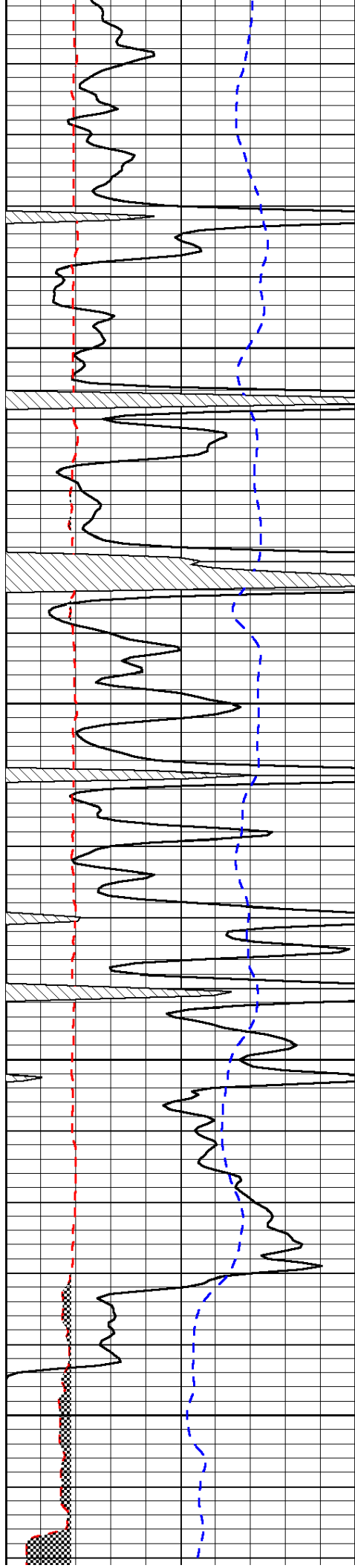
-29

-29

-29

-28

-28

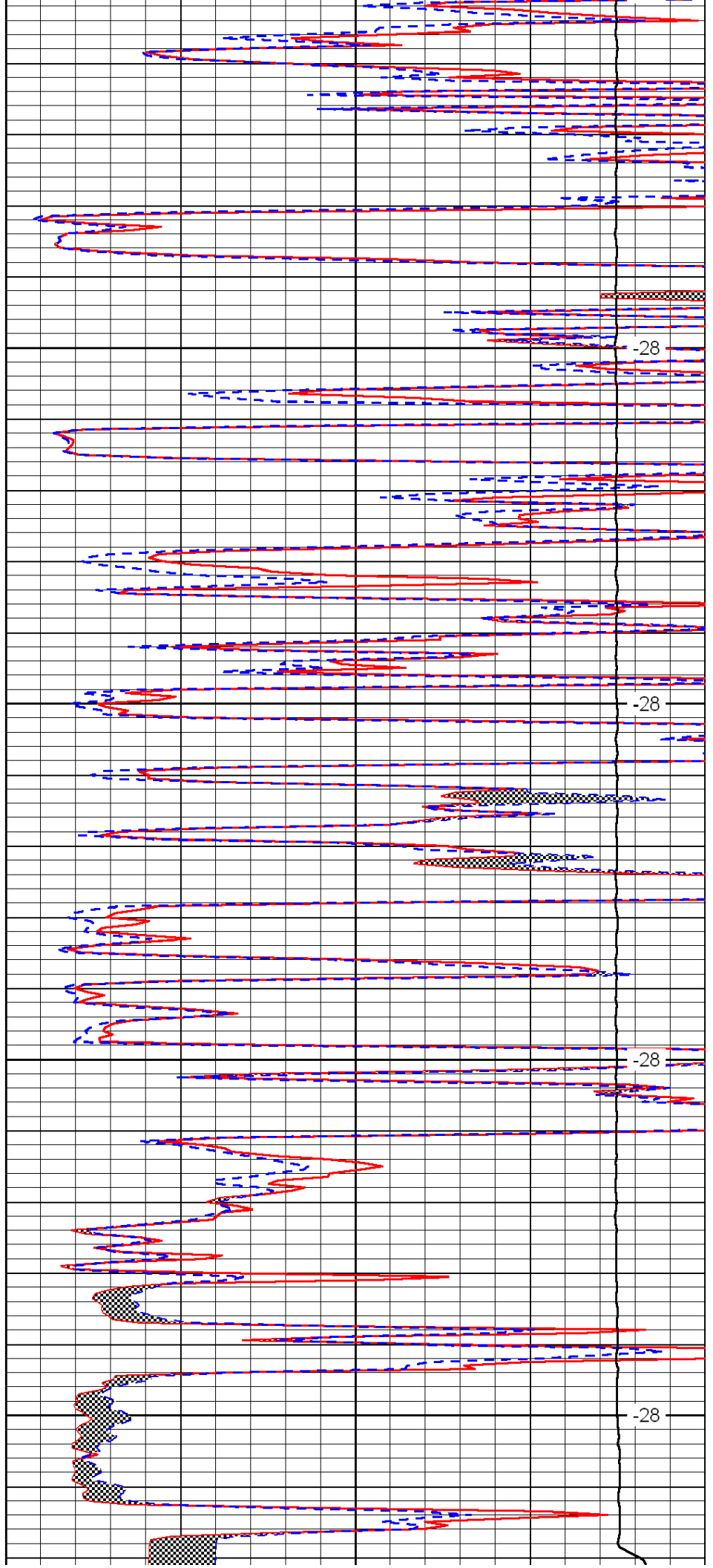


4500

4550

4600

4650



-28

-28

-28

-28

