

# LOG-TECH



## Microresistivity Log

DIGITAL LOG (785) 625-3858

15-141-20435-00-00

Company Murfin Drilling Company, Inc.

Well #1-28 Ison

Field Wildcat

County Osborne State Kansas

Location 1500' FNL / 1440' FEL

Sec: 28 Twp: 9S Rge: 15W

Other Services  
CNL / CDL  
DIL / BHCS

Elevation

Permanent Datum Ground Level Elevation 1995  
Log Measured From Kelly Bushing 5 Ft. Above Perm. Datum  
Drilling Measured From Kelly Bushing

K.B. 2000  
D.F.  
G.L. 1995

Date 8/20/2011

Run Number Two

Depth Driller 3850

Depth Logger 3852

Bottom Logged Interval 3851

Top Log Interval 2800

Casing Driller 8.625 @ 217

Casing Logger 215

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 3500

Density / Viscosity 9.3 69

pH / Fluid Loss 10.5 5.4

Source of Sample Flowline

Rm @ Meas. Temp 1.00 @ 85

Rmf @ Meas. Temp 0.75 @ 85

Rmc @ Meas. Temp 1.35 @ 85

Source of Rmf / Rmc Charts

Rm @ BHT 0.74 @ 115

Operating Rig Time 5 Hours

Max Rec. Temp. F 115

Equipment Number 15

Location Hays

Recorded By R. Barnhart

Witnessed By Paul Gunzelman

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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.

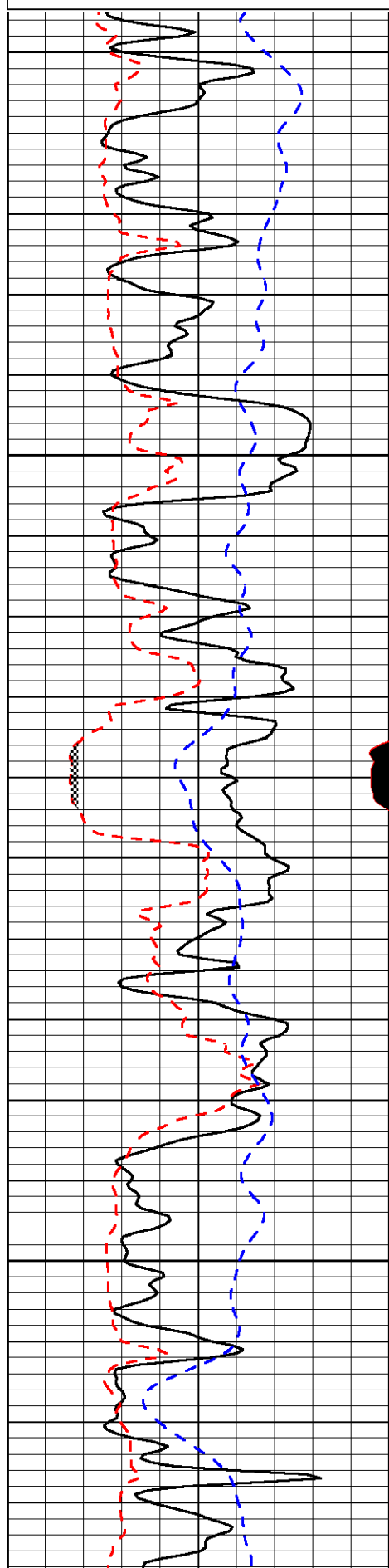
### Comments

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

Natoma, KS:  
4 1/2N on 657, 3/4E on 404, S into

Database File: murfinhd.db  
Dataset Pathname: dil/murmain  
Presentation Format: micro  
Dataset Creation: Sat Aug 20 09:13:19 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     |



2800

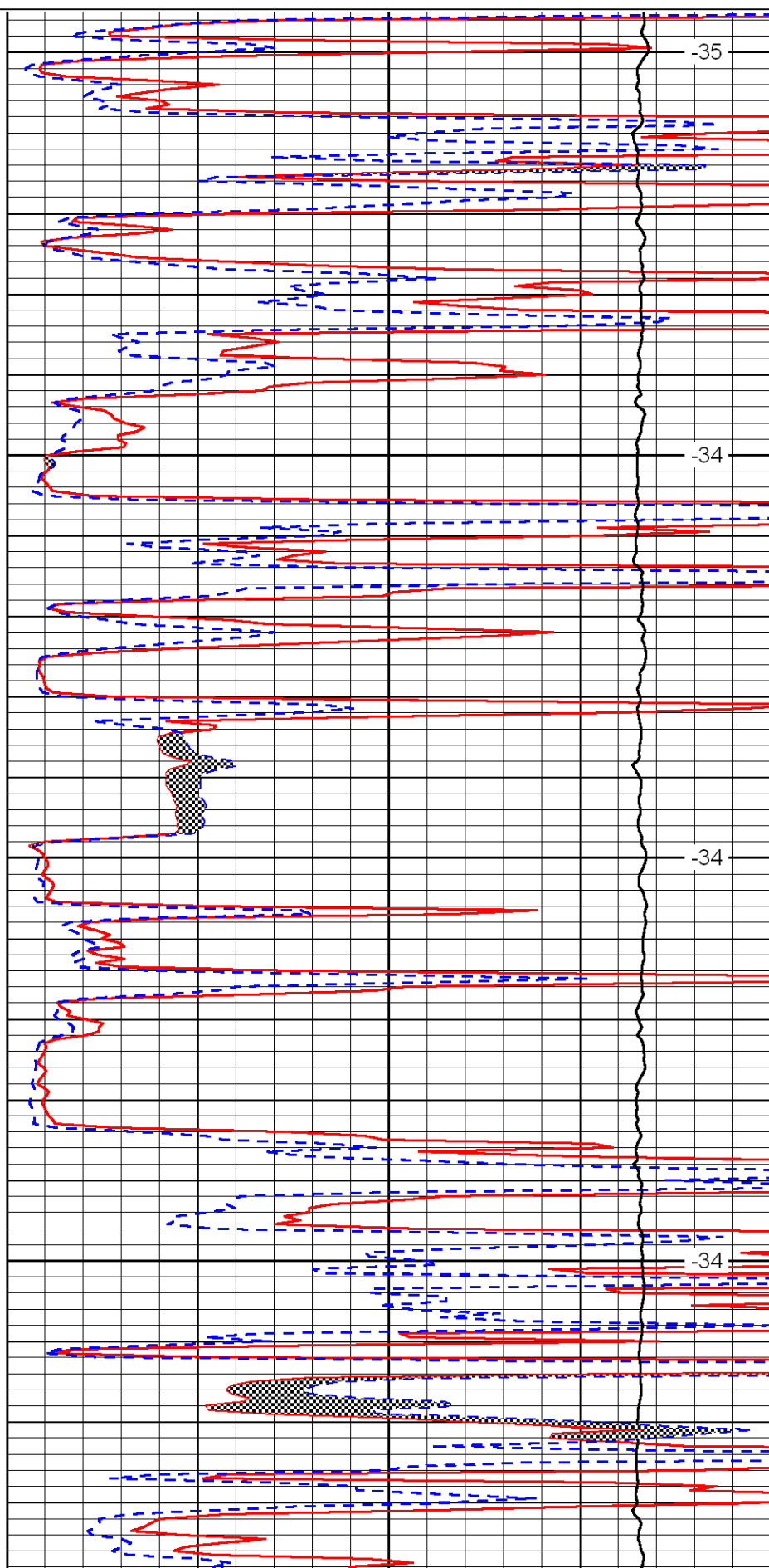
2850

2900

2950

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

LSPD

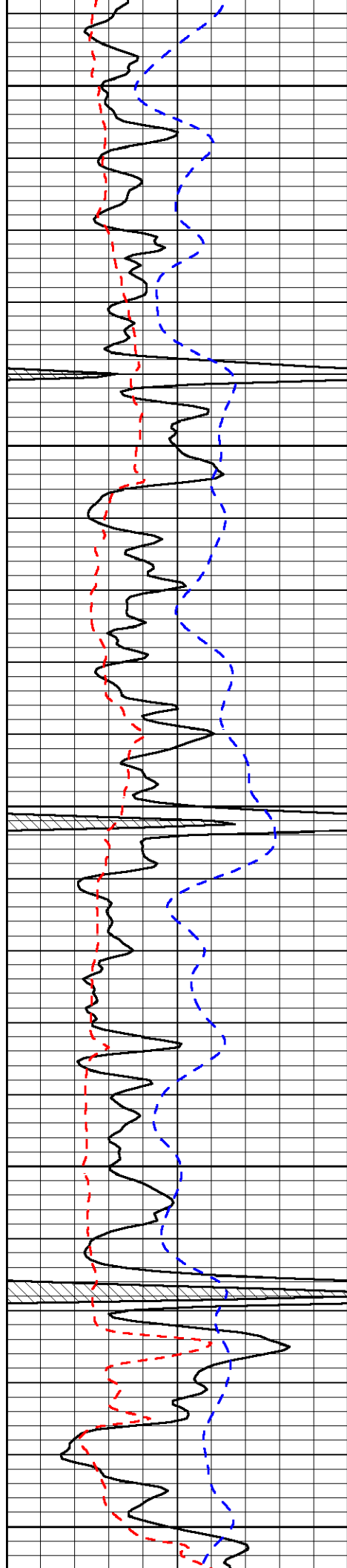


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-34

-34

-34



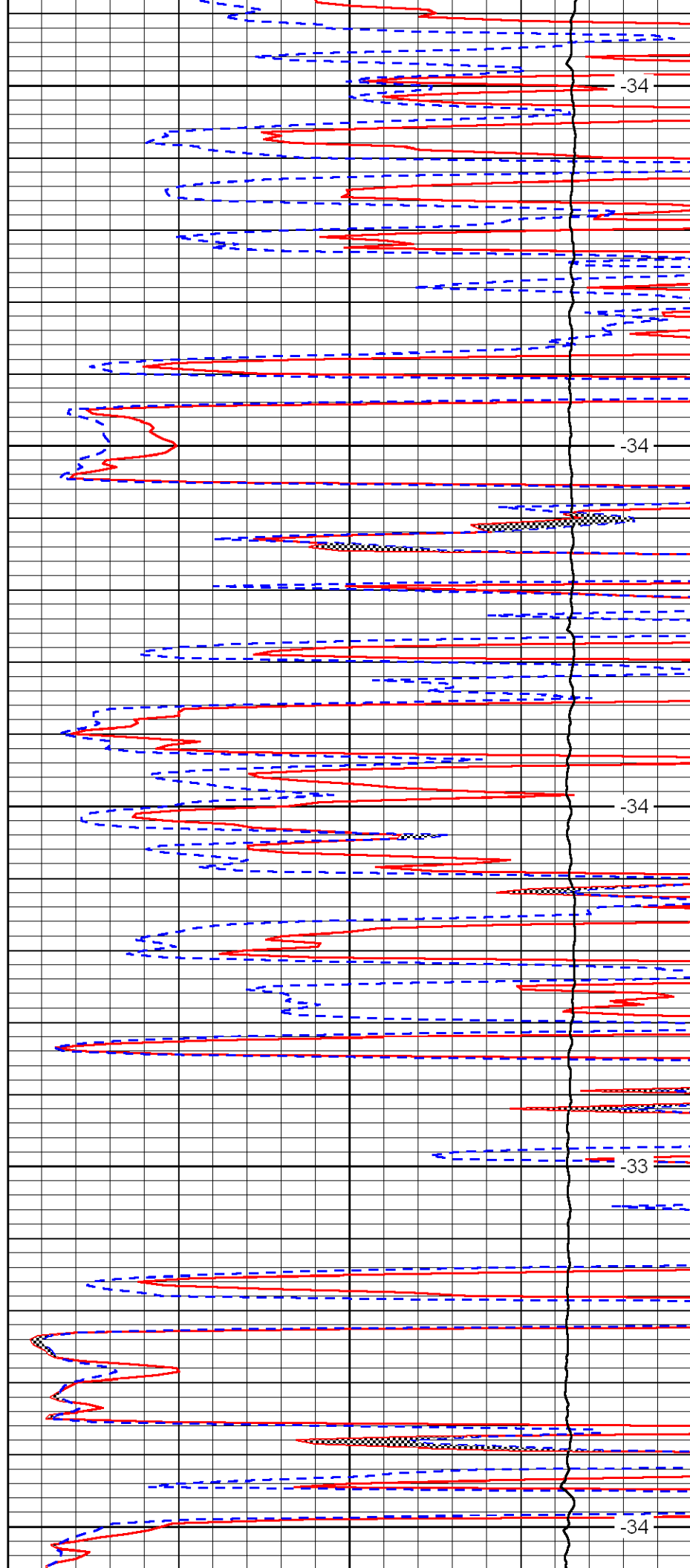
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3050

3100

3150

3200



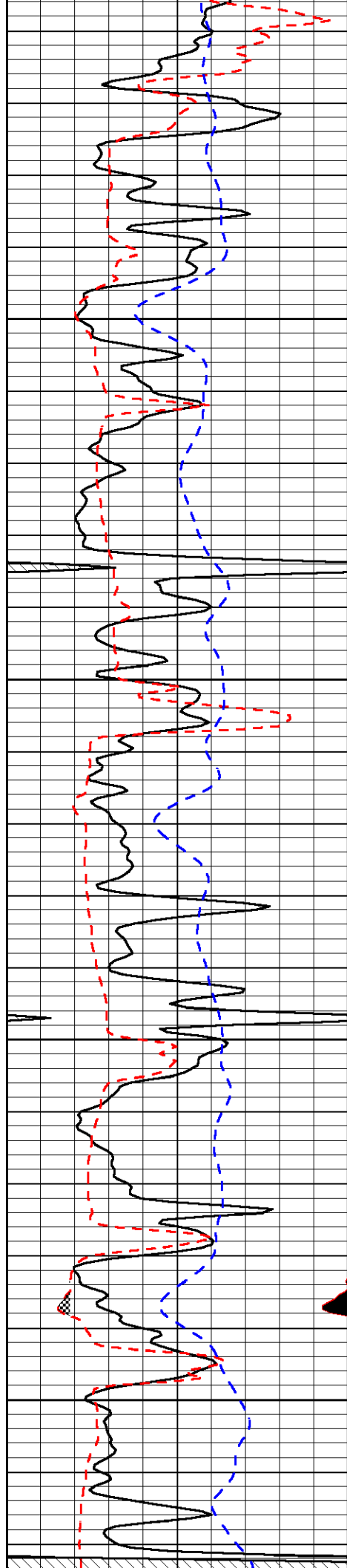
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-33

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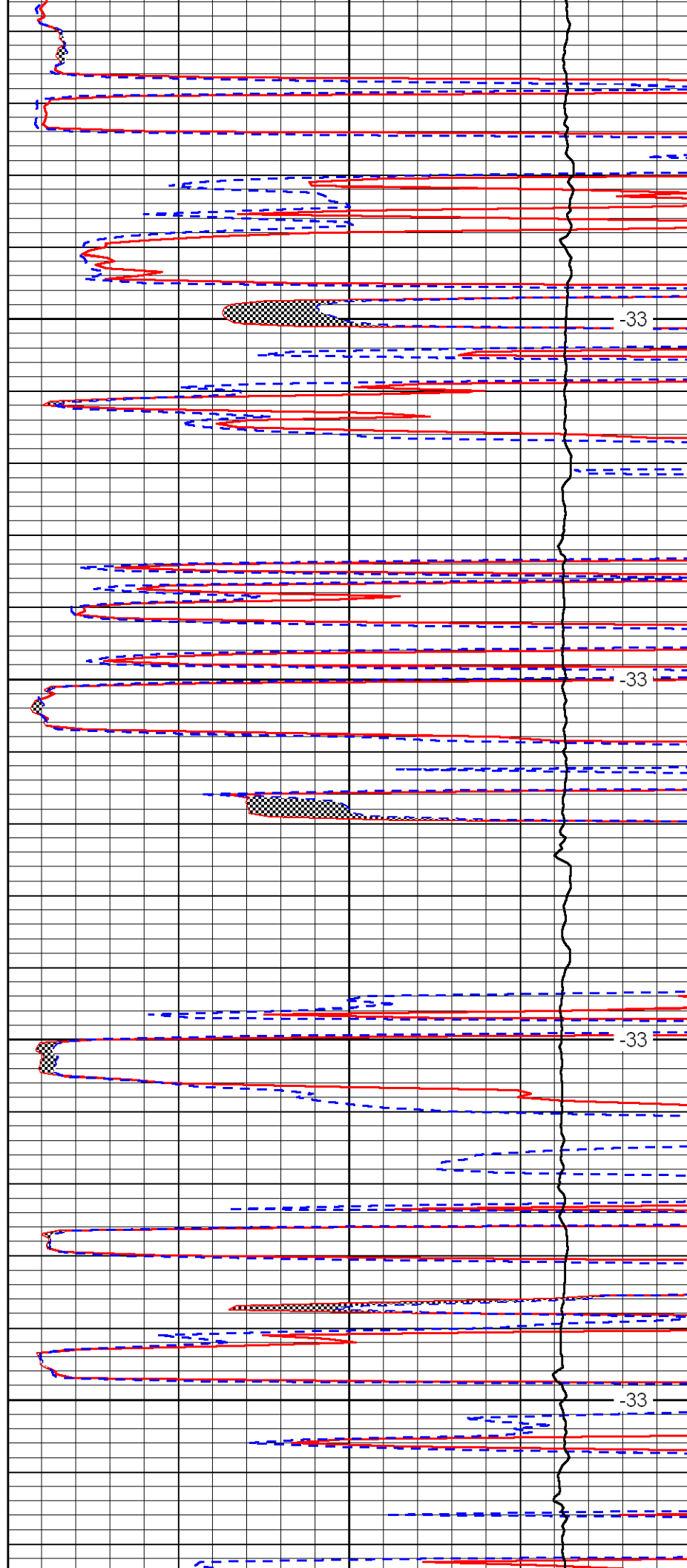


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3300

3350

3400

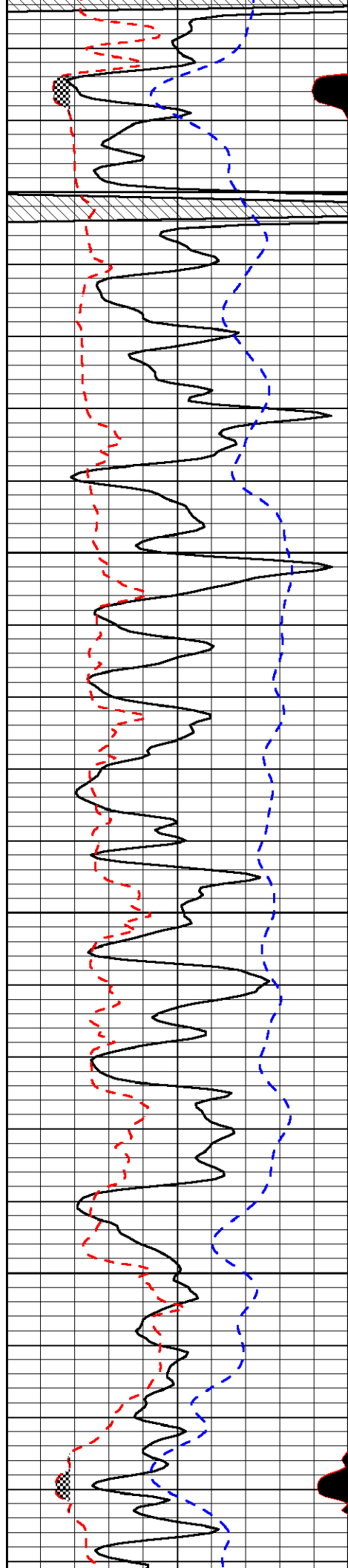


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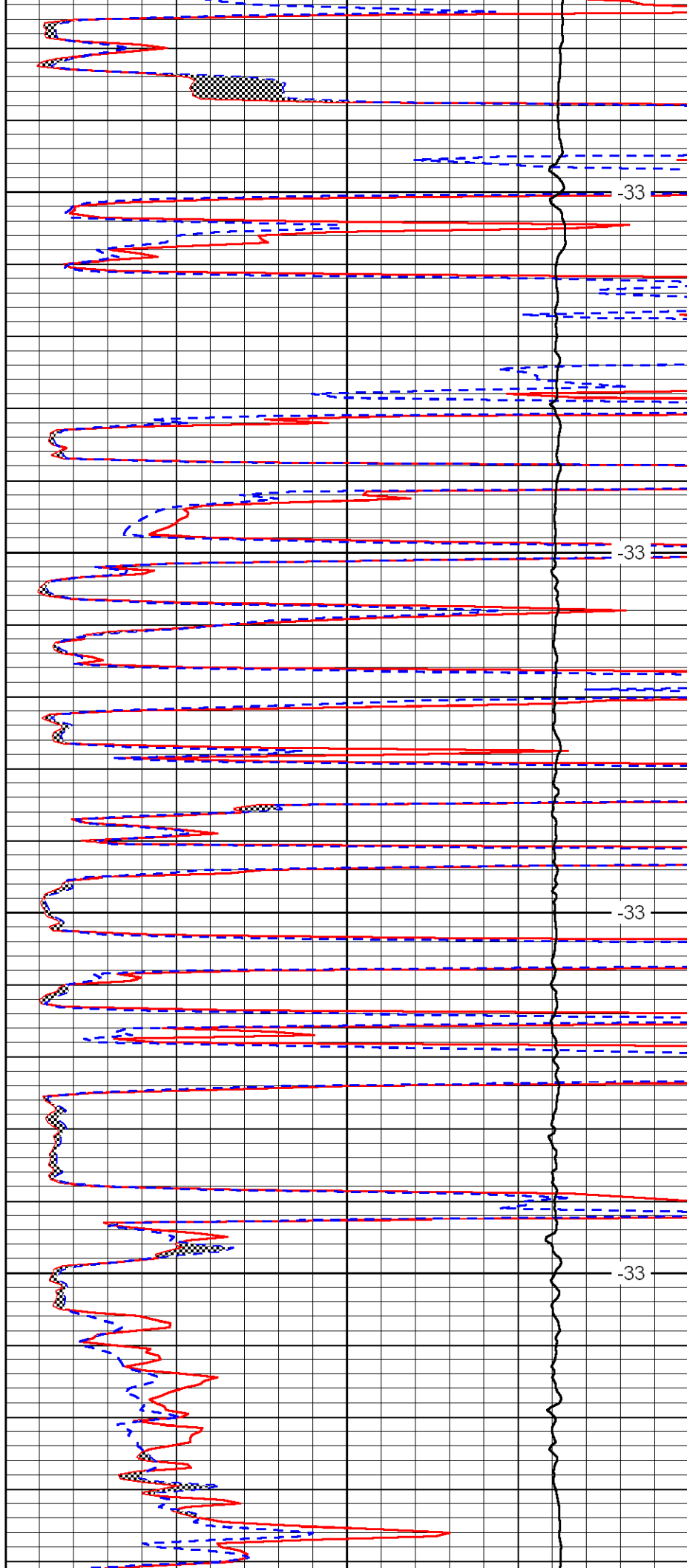


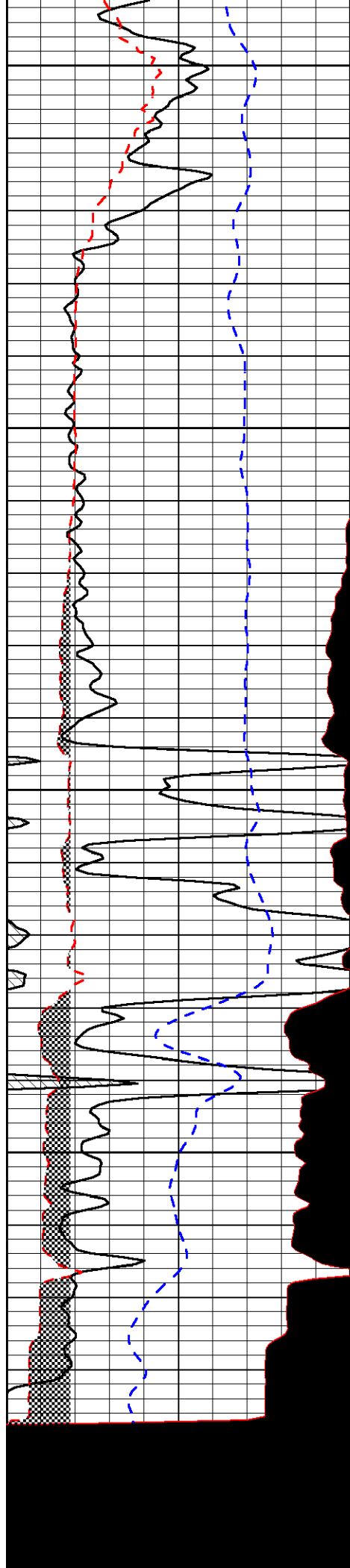
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3600





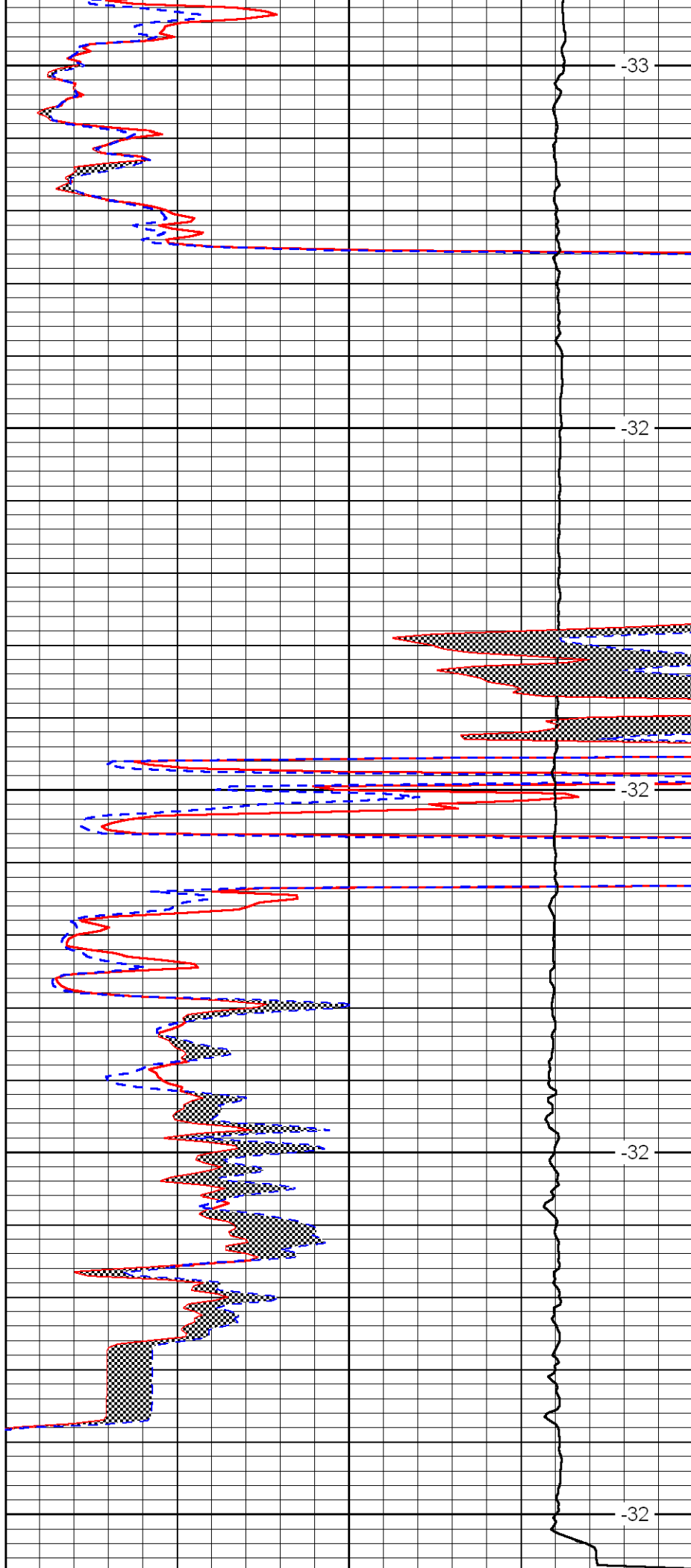
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3700

3750

3800

3850



-33

-32

-32

-32

-32

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