



Pioneer Energy Services

Microresistivity  
Log

API No.

15-055-22321-00-00

Company American Warrior, Inc.

Well Neeley FLB # 1-33

Field Congdon

County Finney State Kansas

Location

403' FNL &amp; 2629' FWL

Other Services  
CNL/CDL  
DIL

Sec: 33 Twp: 23 S Rge: 32 W

Permanent Datum Ground Level Elevation 2840

Log Measured From Kelly Bushing 11 Ft. Above Perm. Datum

K.B. 2851  
D.F.  
G.L. 2840

Drilling Measured From Kelly Bushing

Elevation

K.B. 2851  
D.F.  
G.L. 2840

Date

09-24-2014

Run Number Two

Depth Driller 4950

Depth Logger 4950

Bottom Logged Interval 4949

Top Log Interval 3750

Casing Driller 8.625 @ 1730

Casing Logger 1723

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 2,400

Density / Viscosity 9.4 65

pH / Fluid Loss 9.5 8.4

Source of Sample Flowline

Rm @ Meas. Temp 0.53 @ 83

Rmf @ Meas. Temp 0.40 @ 83

Rmc @ Meas. Temp 0.72 @ 83

Source of Rmf / Rmc Charts

Rm @ BHT 0.35 @ 126

Operating Rig Time 4 Hours

Max Rec. Temp. F 126

Equipment Number 15

Location Hays

Recorded By Y. Ruiz

Witnessed By Kevin Timson

&lt;&lt;&lt; Fold Here &gt;&gt;&gt;

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

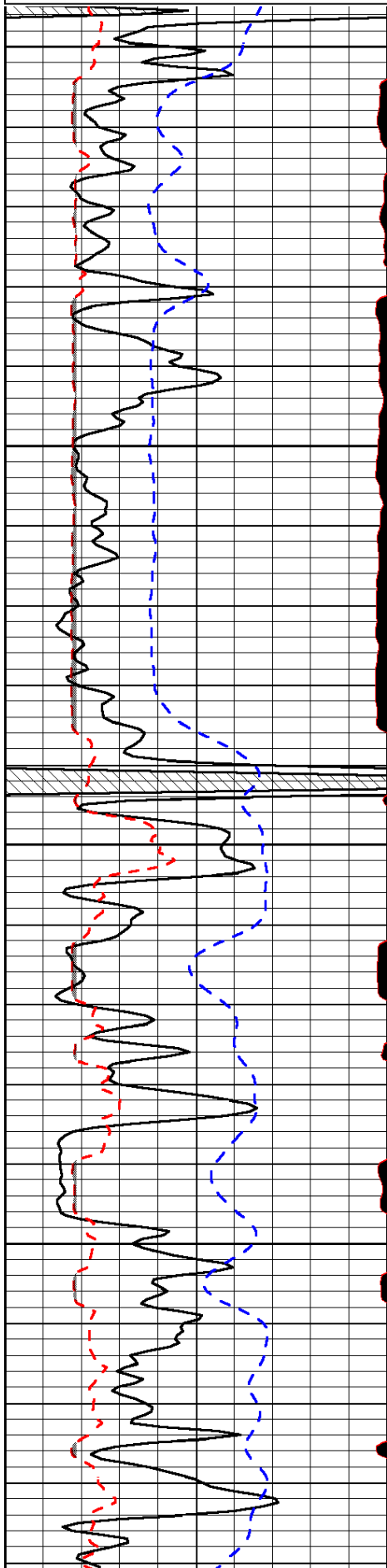
Thank you for using Log-Tech, Inc.  
(785) 625-3858

Garden City,  
1 1/2 North on Jennie Barker Rd, 1/2 West on Rodkey Rd,  
South into

Database File: american\_warrior\_neeley\_flb\_#\_1\_33hd.db  
Dataset Pathname: DIL/awstkml  
Presentation Format: micro  
Dataset Creation: Thu Sep 25 04:27:05 2014  
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 (mV)         | 0     |

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

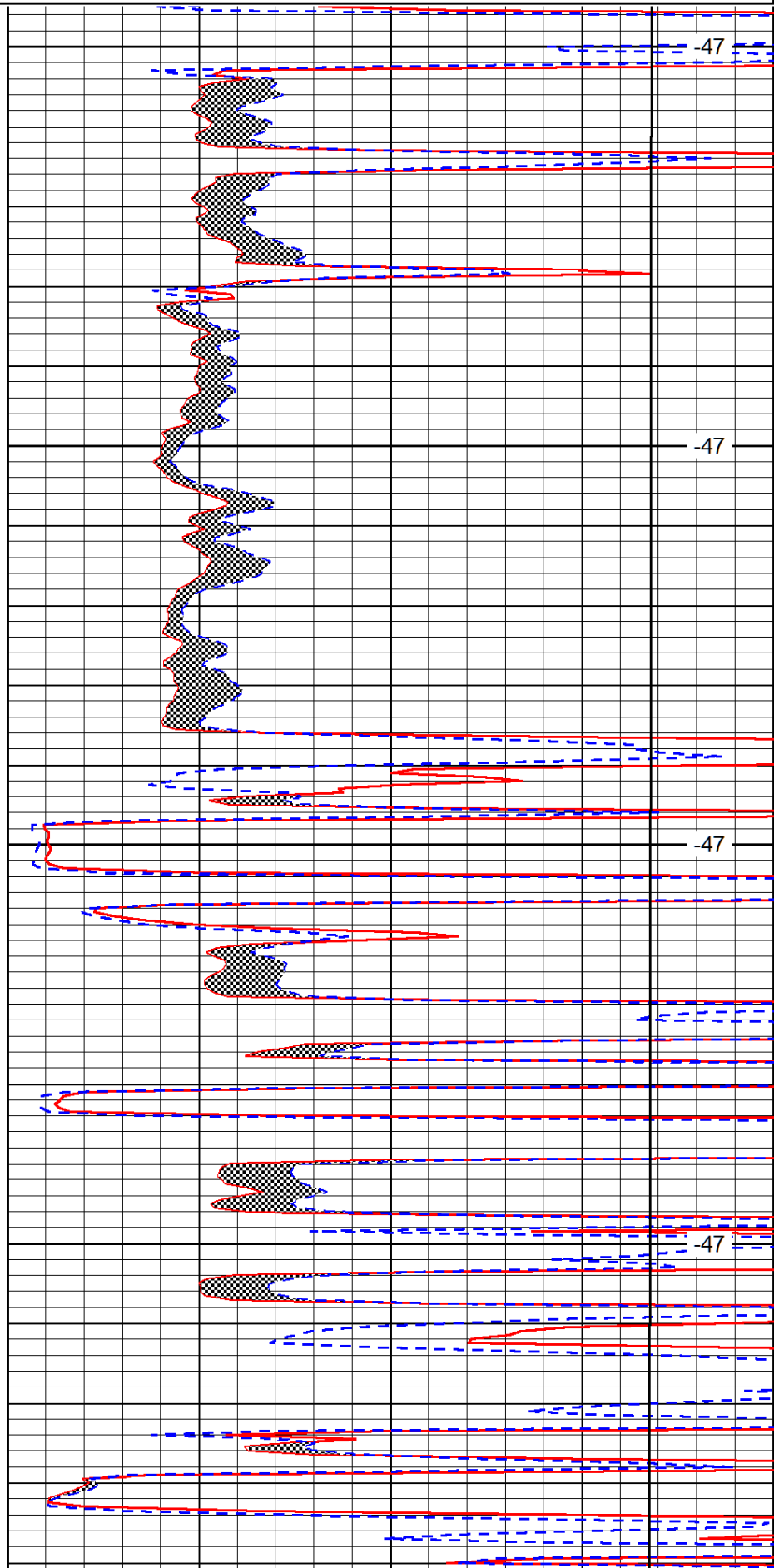


3750

3800

3850

3900

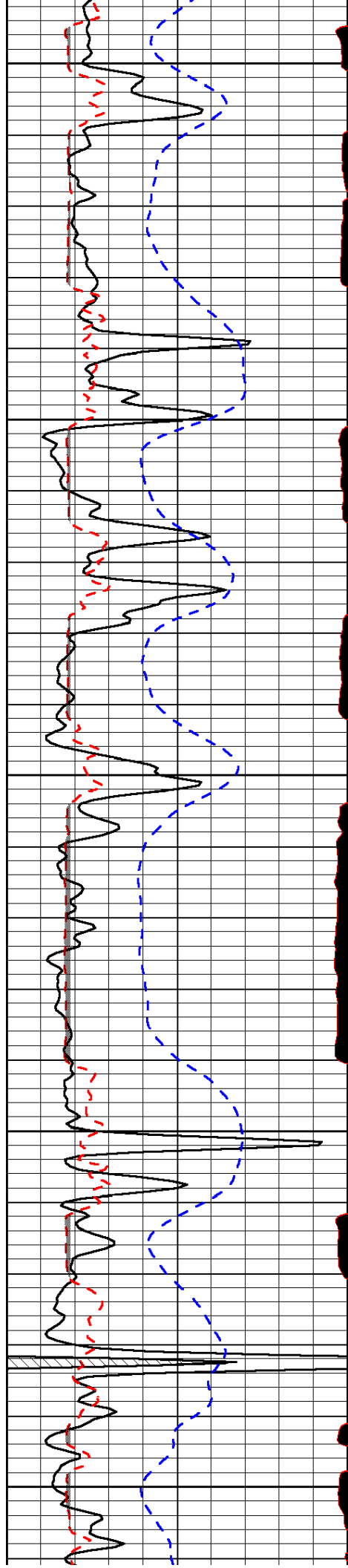


-47

-47

-47

-47



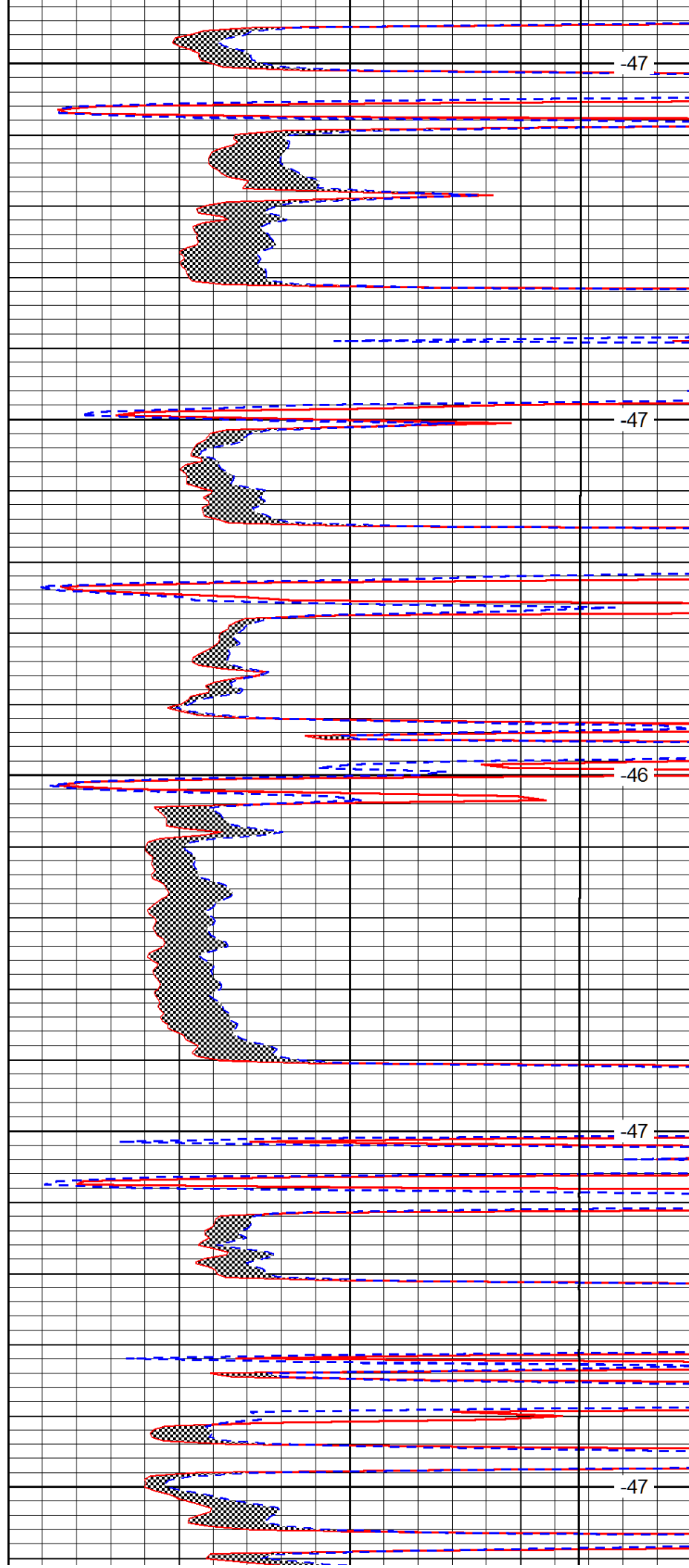
3950

4000

4050

4100

4150



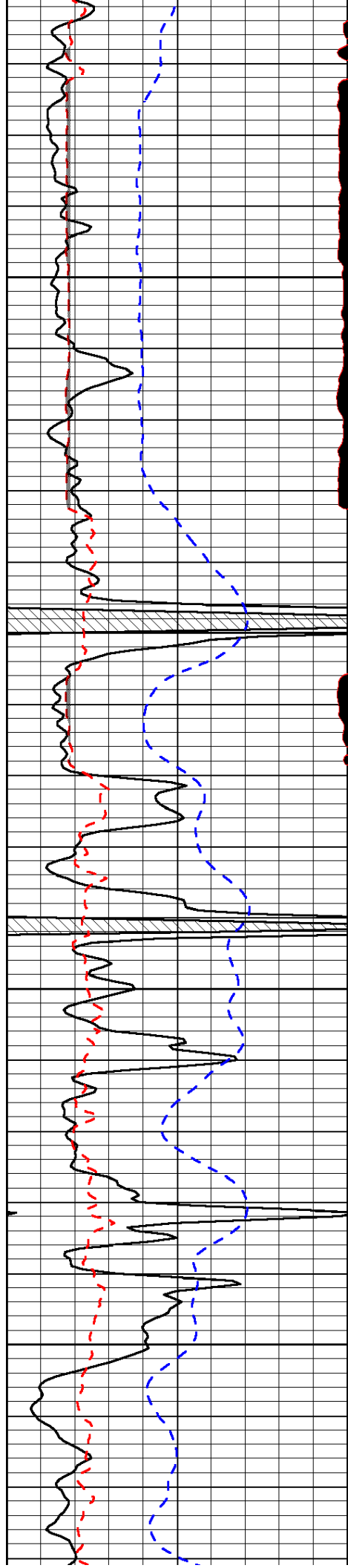
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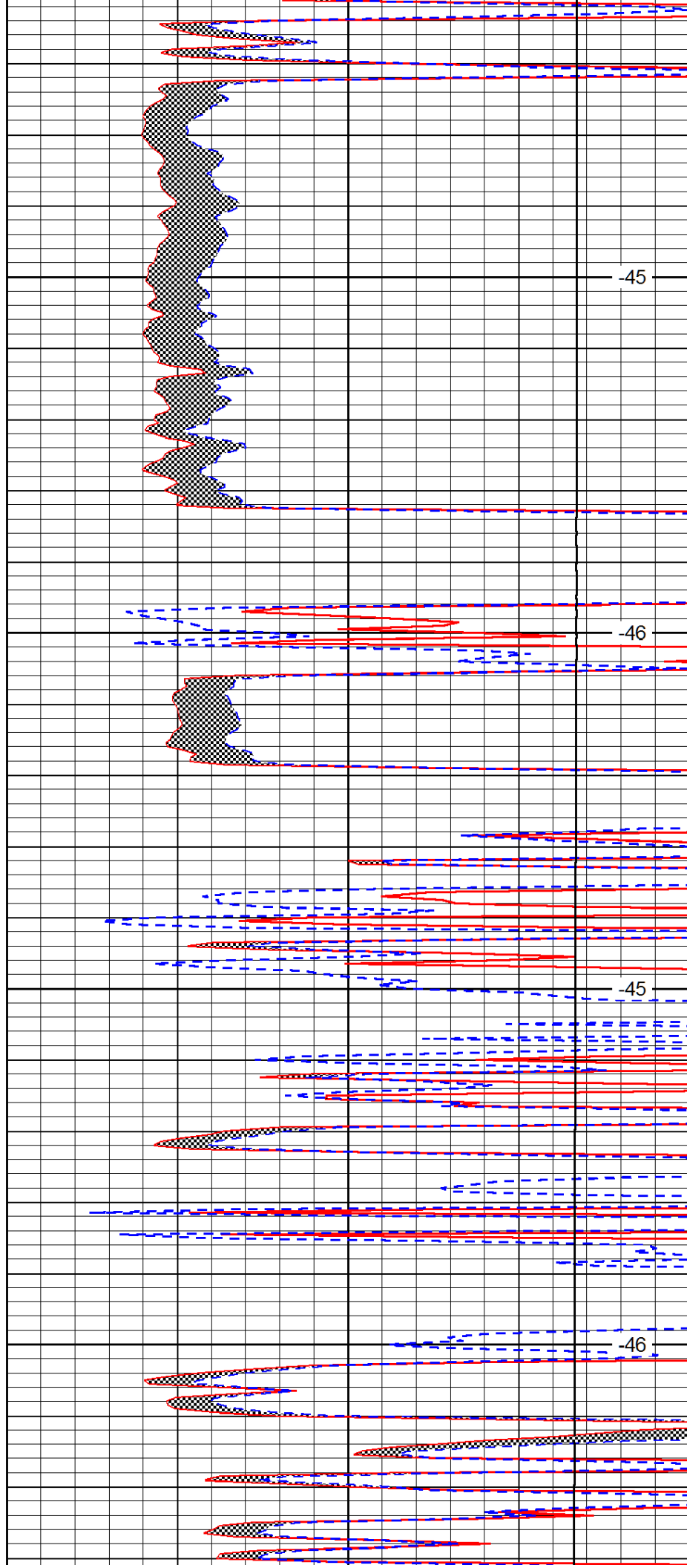


4200

4250

4300

4350

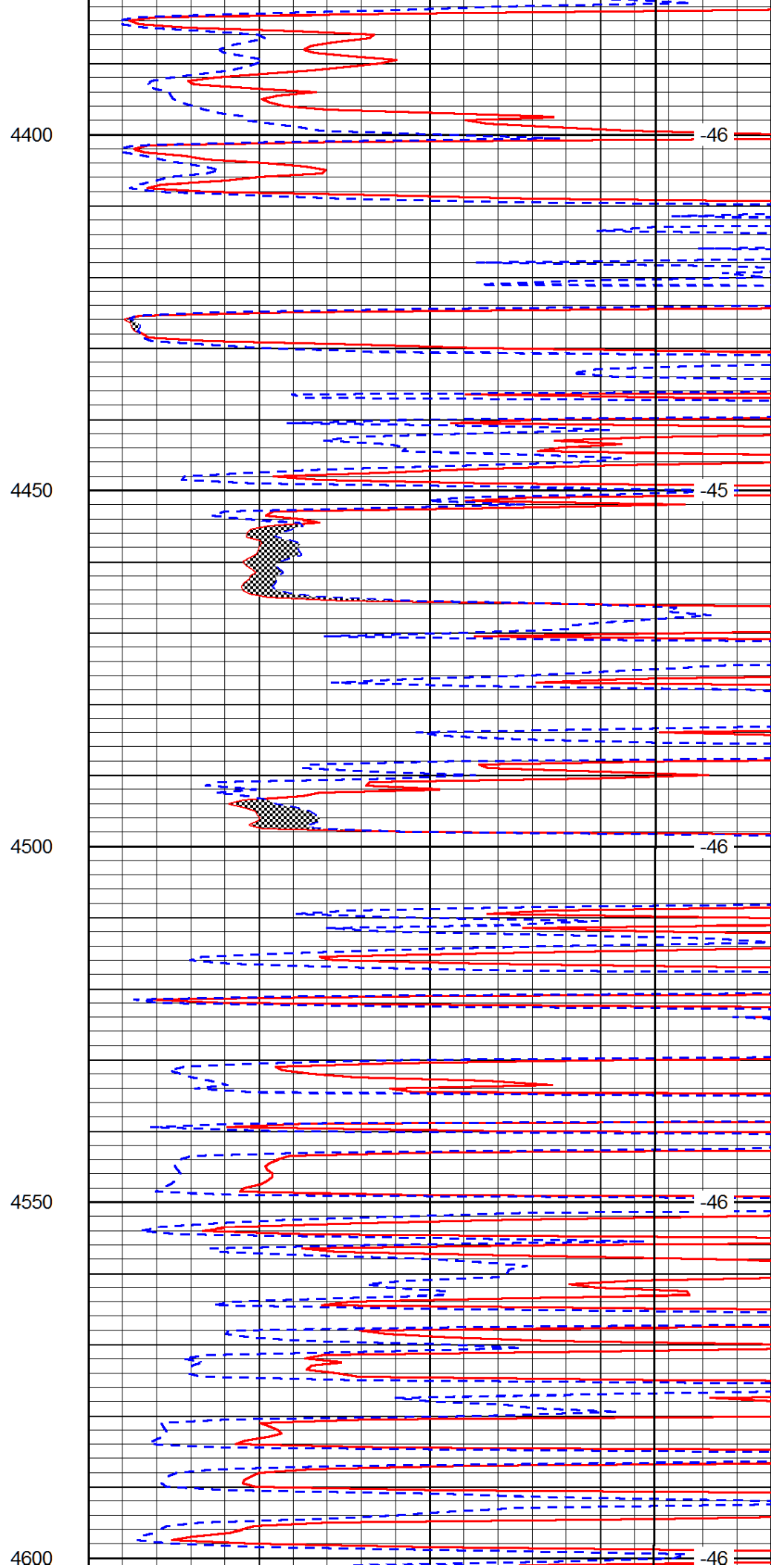
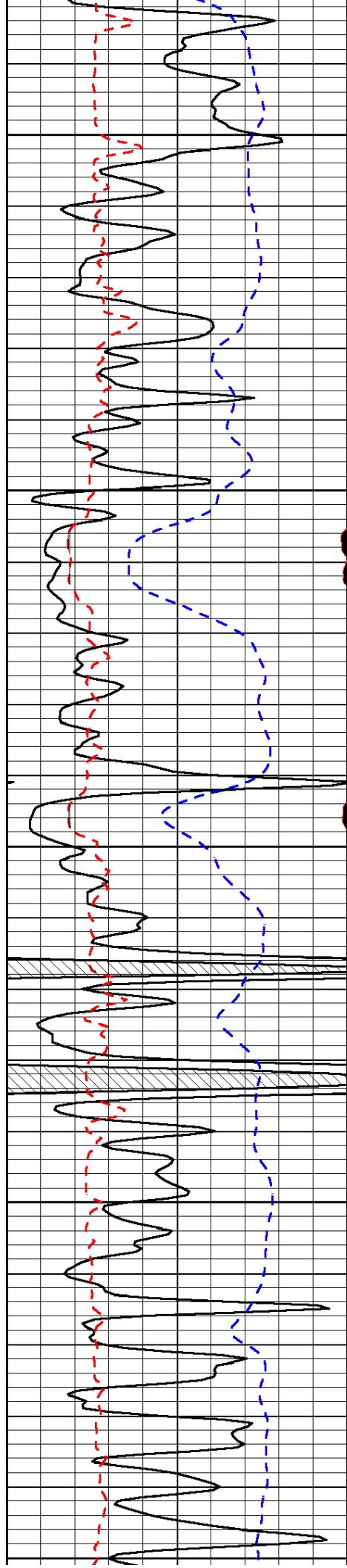


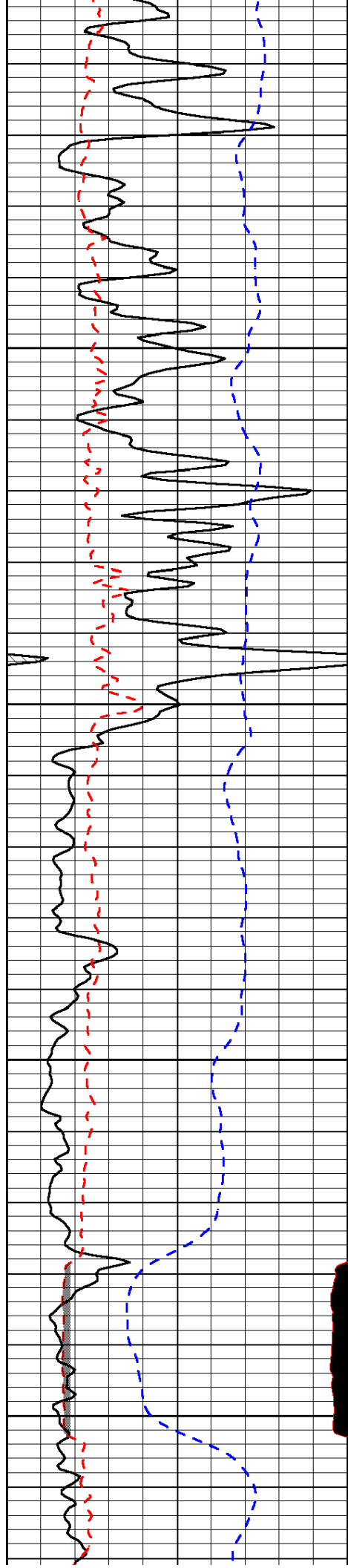
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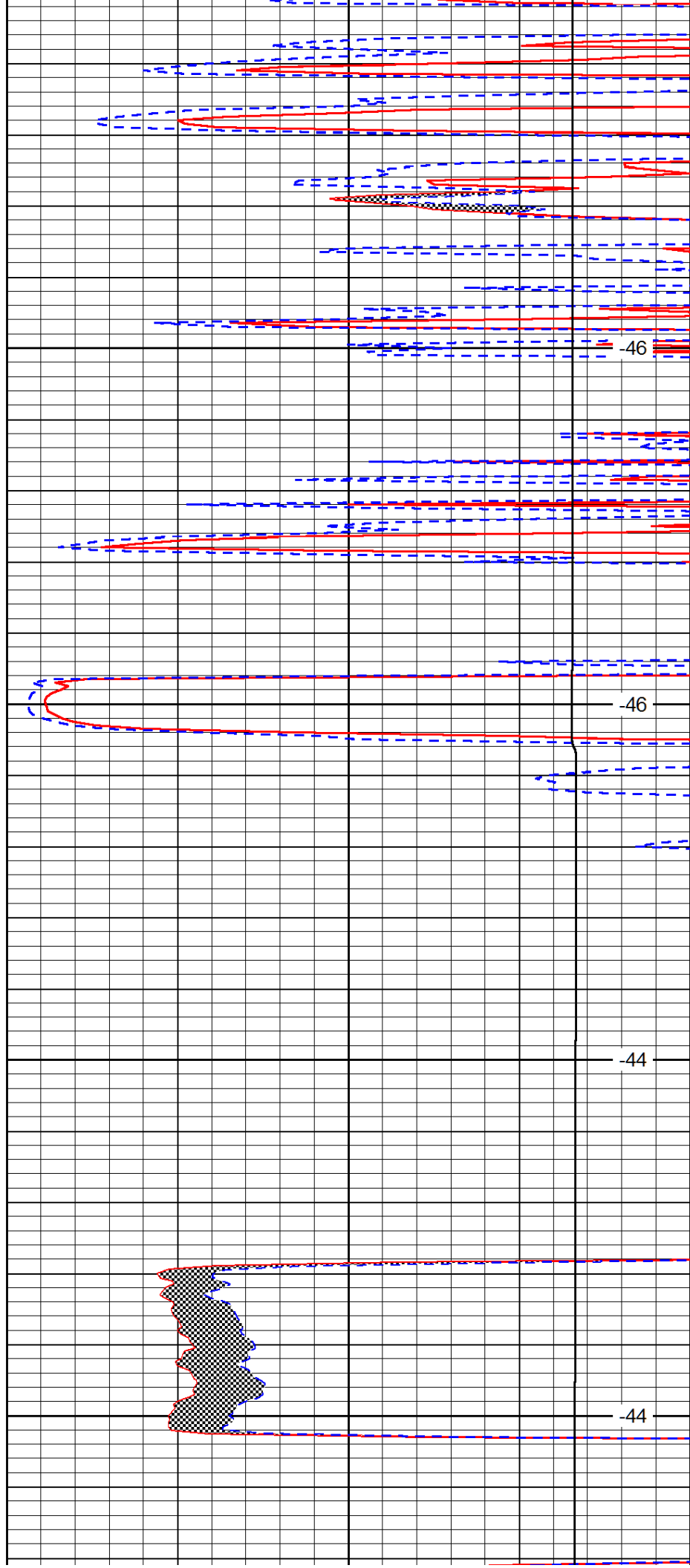


4650

4700

4750

4800

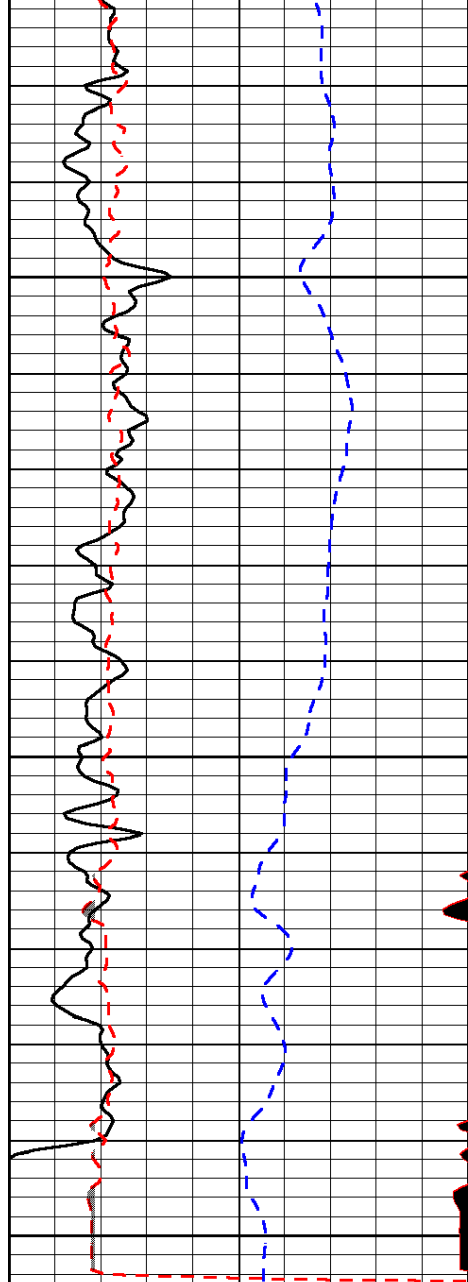


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-44

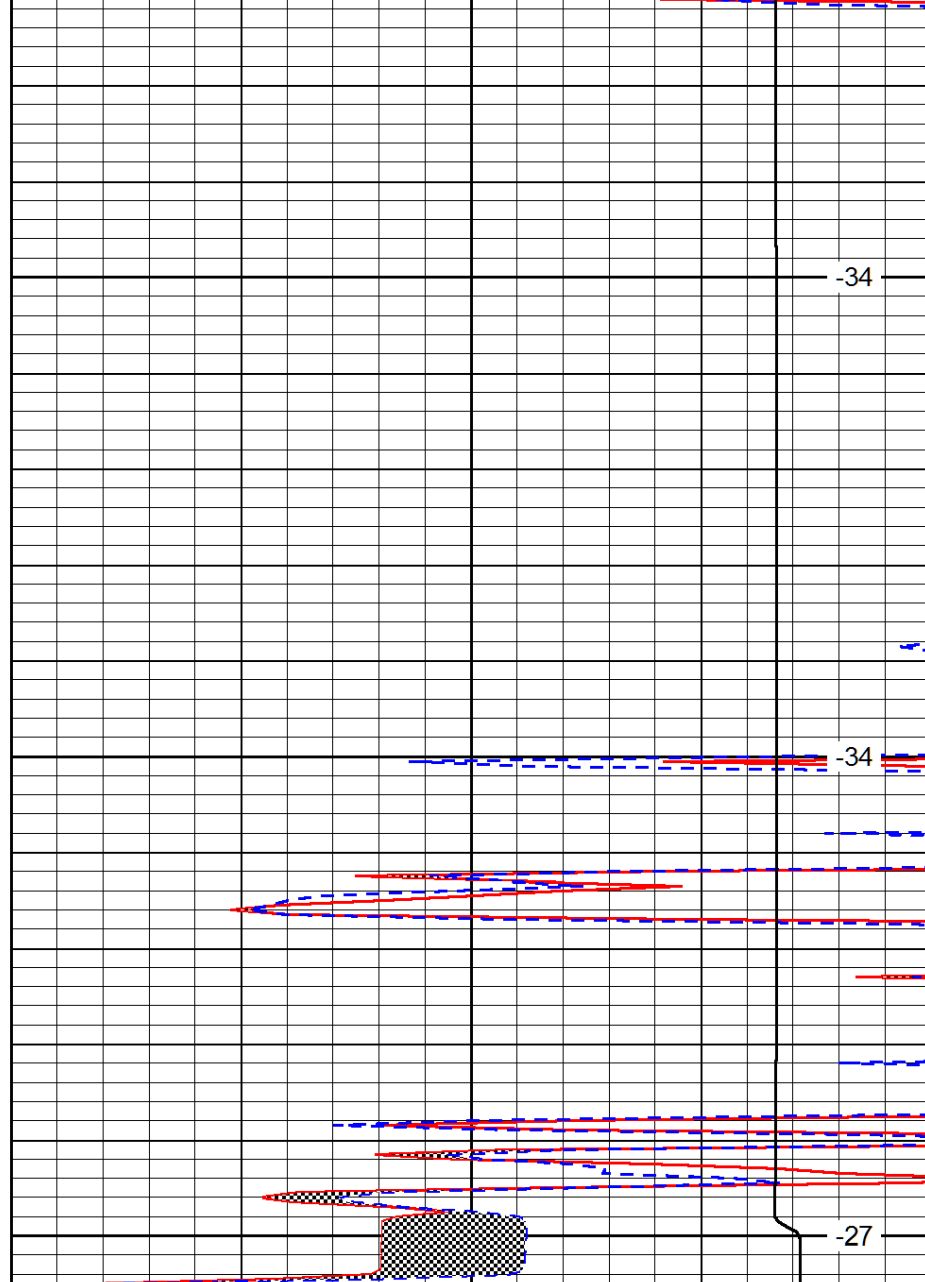


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