



Microresistivity Log

Pioneer Energy Services

API No.

15-189-22,792-00-00

Company American Warrior, Inc.

Well Larrabee No. 3 - 13

Field Unknown

County Stevens State Kansas

Location

641' FSL & 1983' FEL

Sec: 13

Twp: 32 S

Rge: 35 W

Permanent Datum Ground Level
Log Measured From Kelly Bushing
Drilling Measured From Kelly Bushing

Elevation

K.B. 2983
D.F. 2972
G.L. 2972

Other Services
CDL/ CNL
MEL

Date

3/01/2013

Run Number

Two

Depth Driller

6350

Depth Logger

6353

Bottom Logged Interval

6352

Top Log Interval

4150

Casing Driller

8.625 @ 1745

Casing Logger

1745

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

3900

Density / Viscosity

9.1 55

pH / Fluid Loss

10.5 6.0

Source of Sample

Flowline

Rm @ Meas. Temp

.58 @ 50

Rmf @ Meas. Temp

.44 @ 50

Rmc @ Meas. Temp

.78 @ 50

Source of Rmf / Rmc

Charts

Rm @ BHT

.21 @ 140

Operating Rig Time

6 1/2 Hours

Max Rec. Temp. F

140

Equipment Number

17

Location

Hays

Recorded By

D. Martin

Witnessed By

Austin Garner

<<< Fold Here >>>

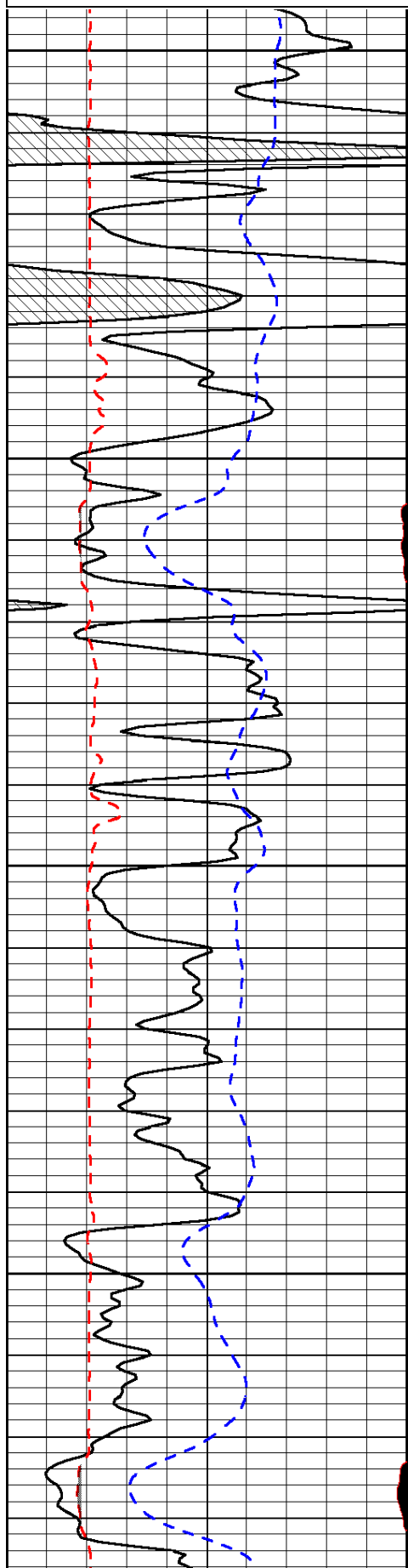
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

Satanta, KS
SW across river to B Rd., 8 S to stop sign,
1W, 1 1/2 S, 1/2 W, N Into

Charted by: Depth in Feet scaled 1:2.10		
0	Gamma Ray (GAPI)	150
6	MCAL (in)	16
2.875	Mud Cake (in)	7.875
-200	SP (mV)	0



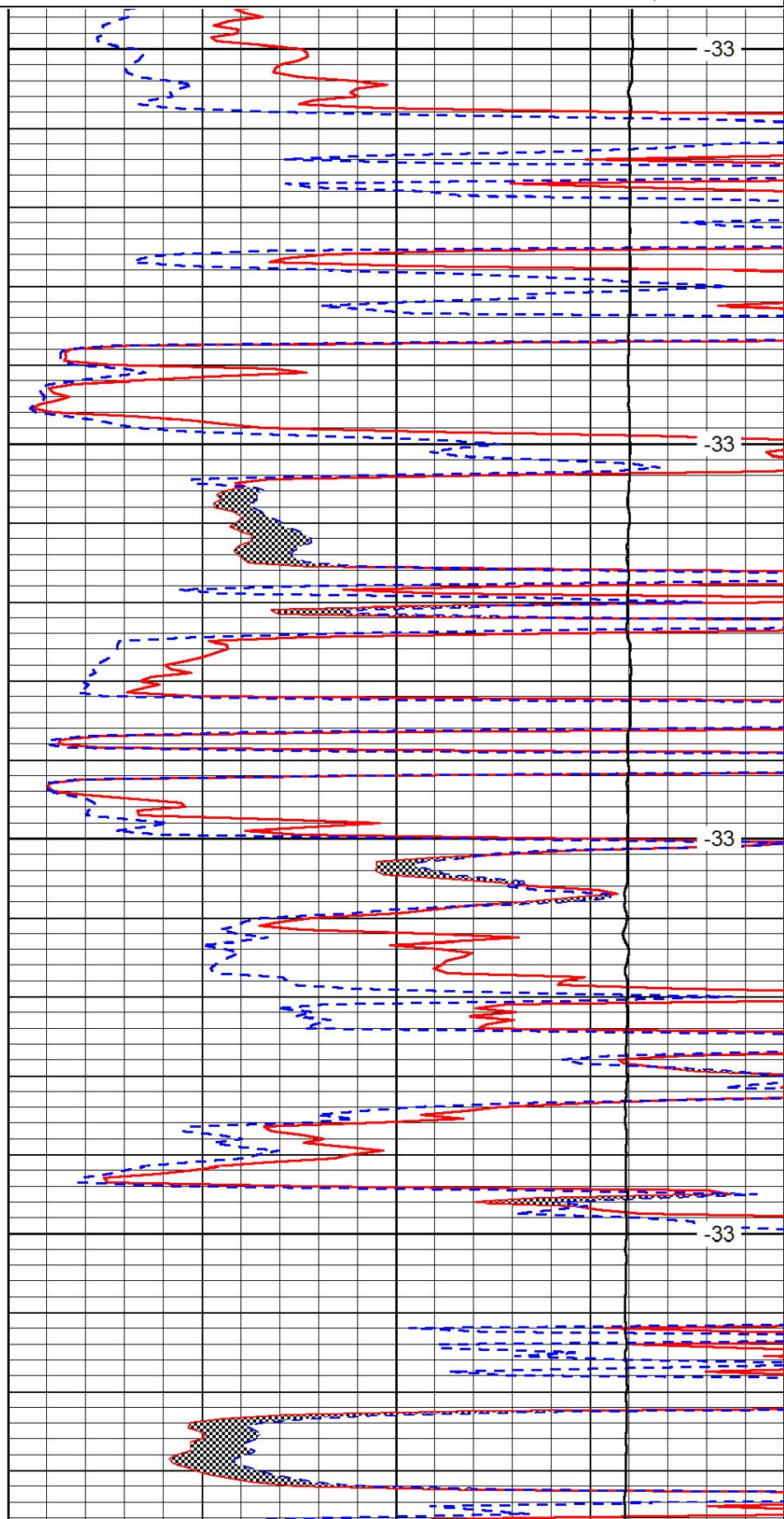
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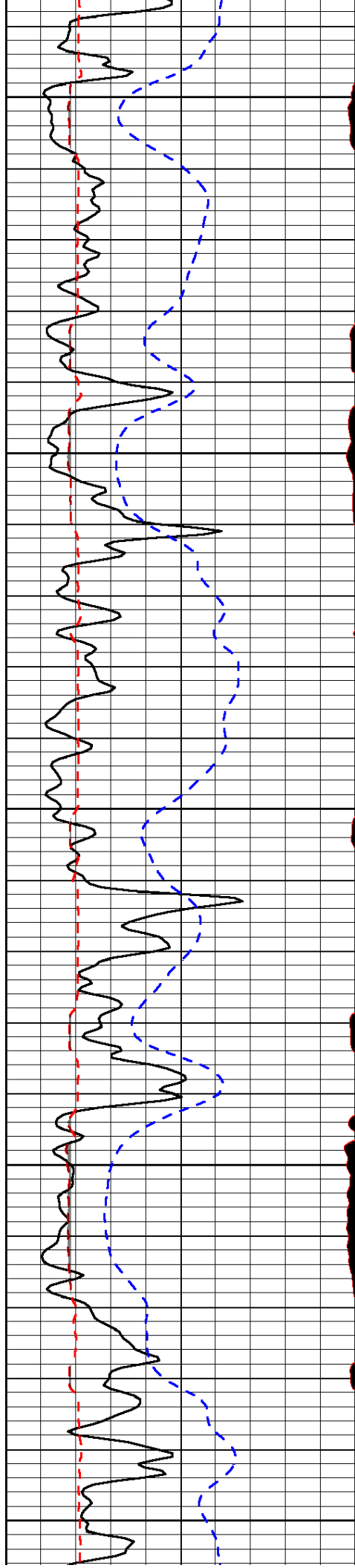
4200

4250

4300

0	Micro Inverse 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0
		LSPD (ft/min)





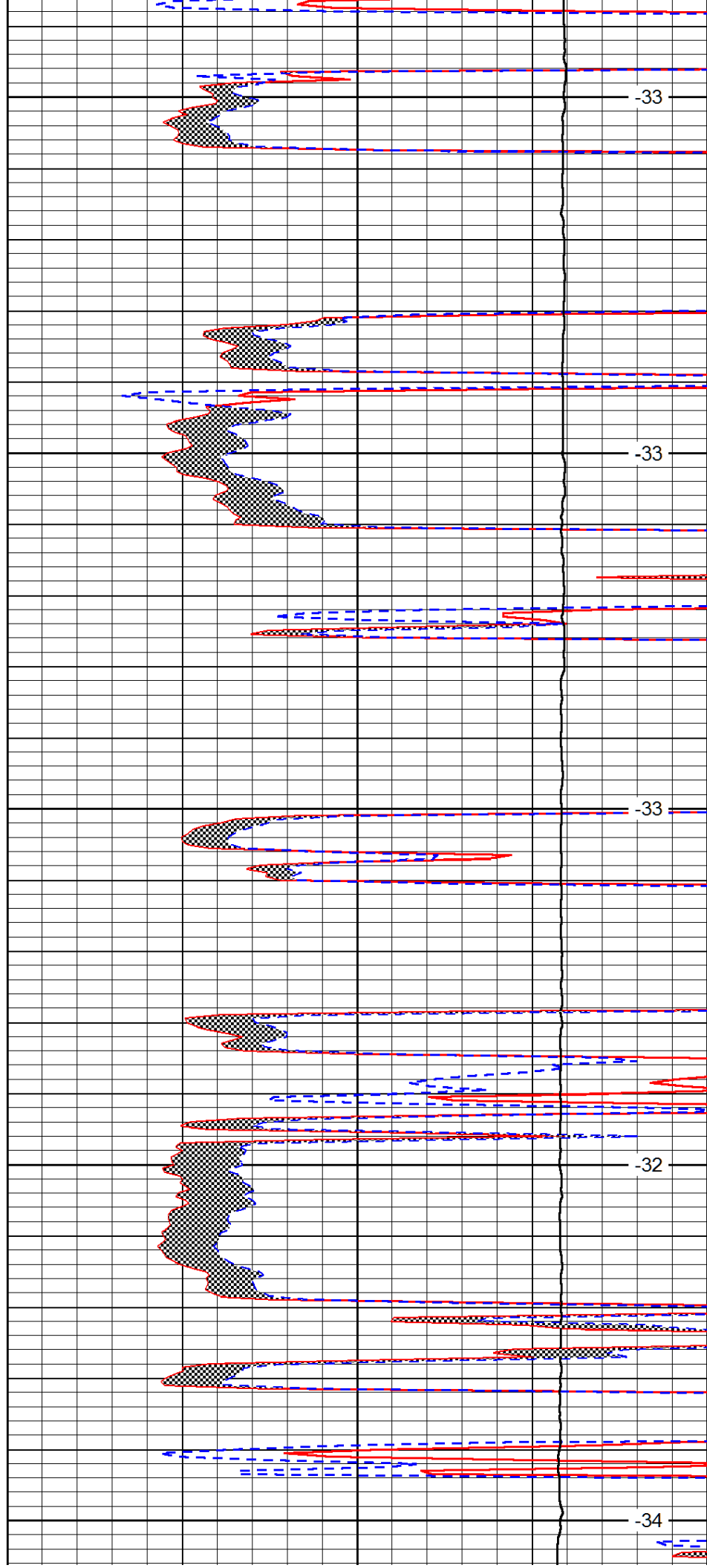
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4400

4450

4500

4550



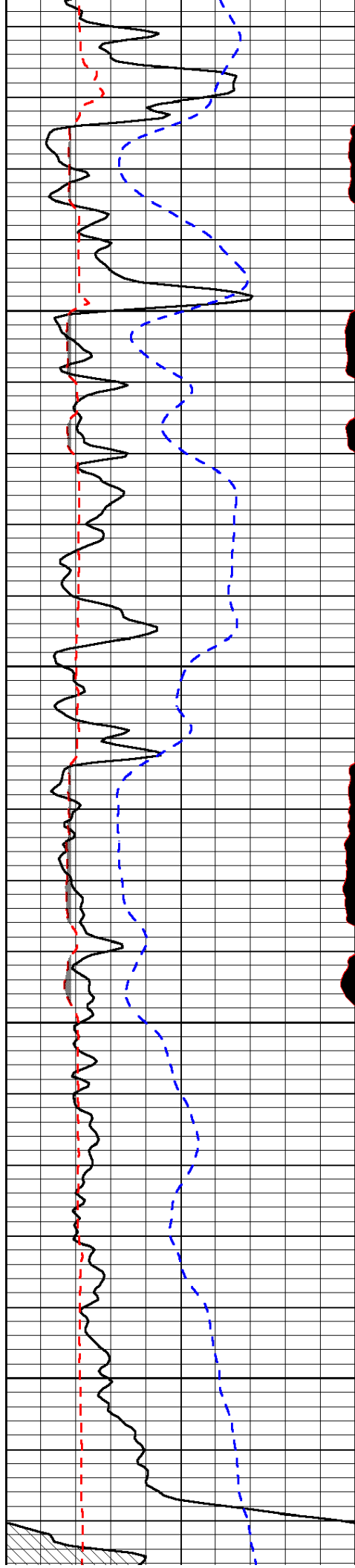
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-33

-33

-32

-34

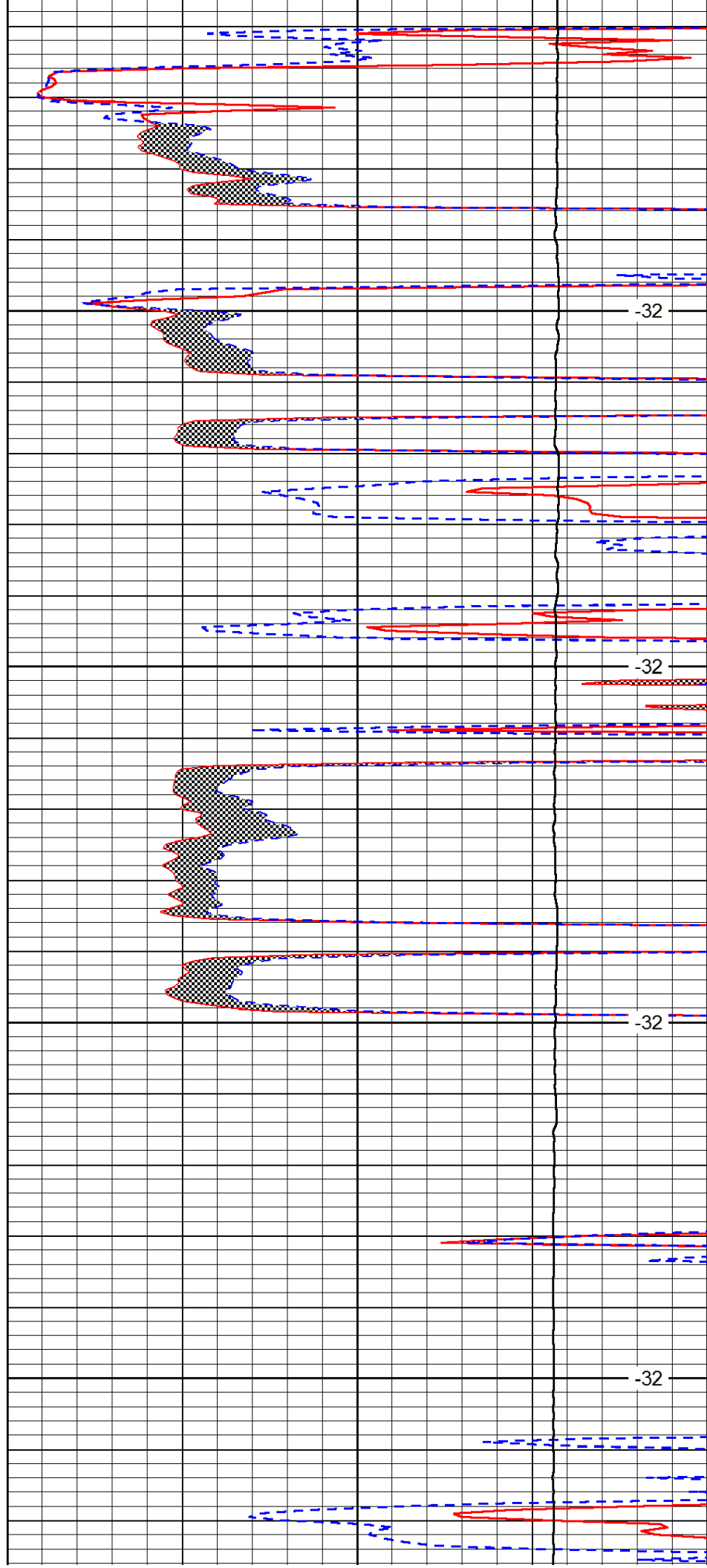


4600

4650

4700

4750

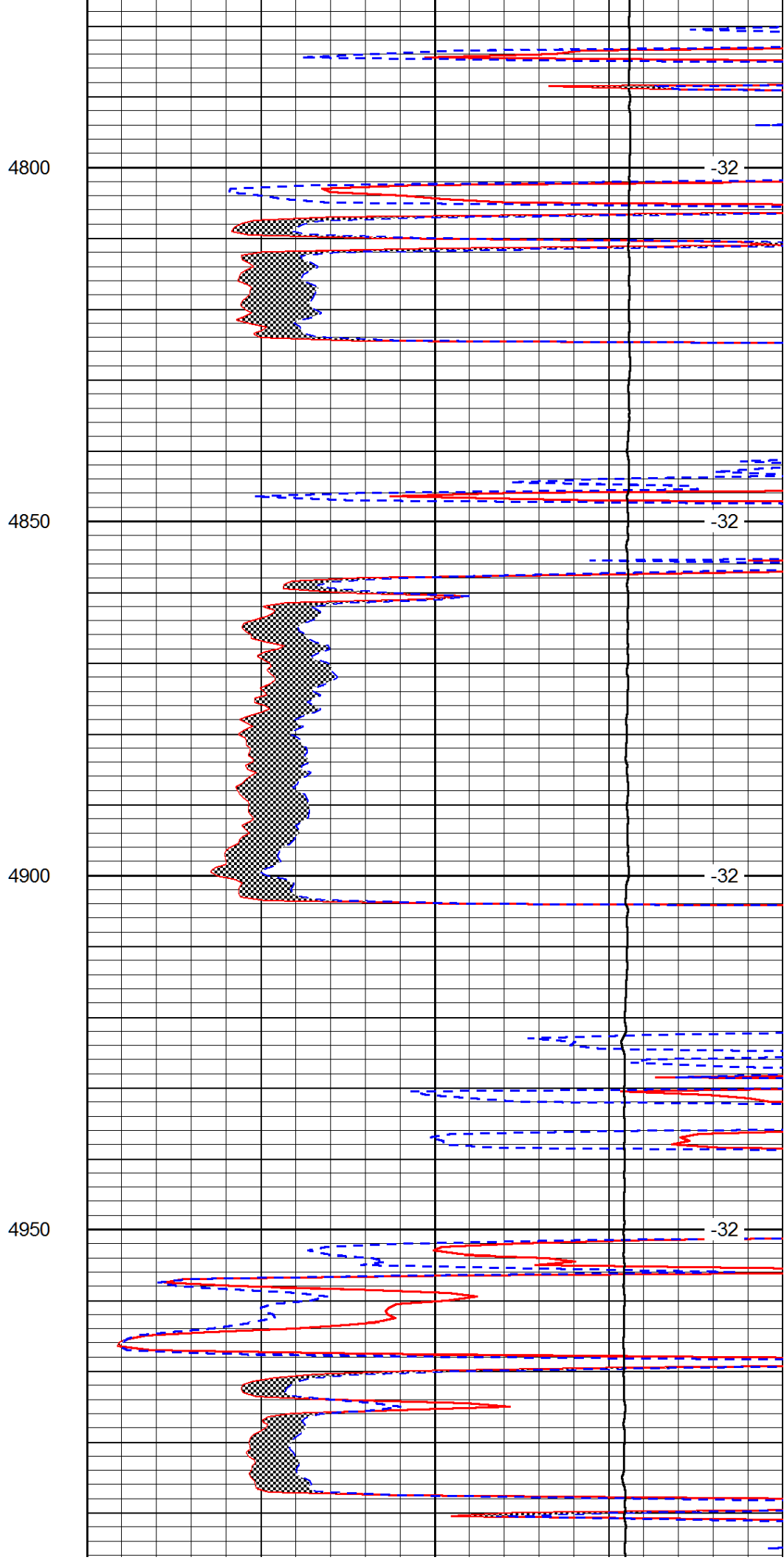
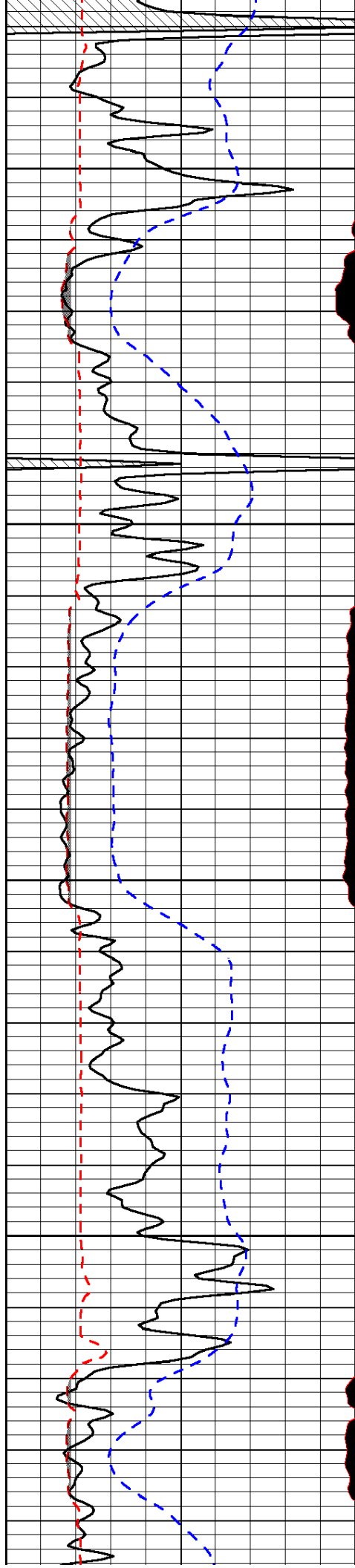


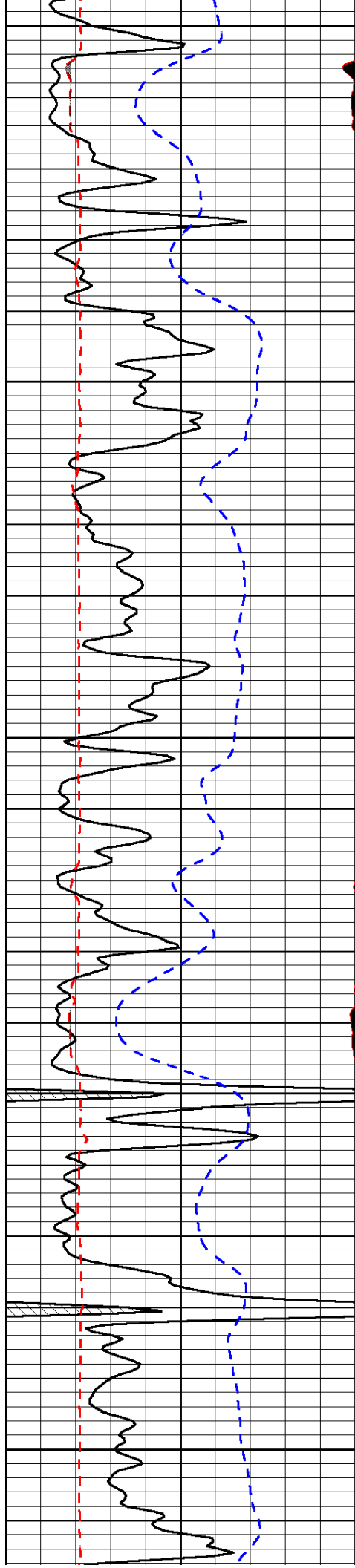
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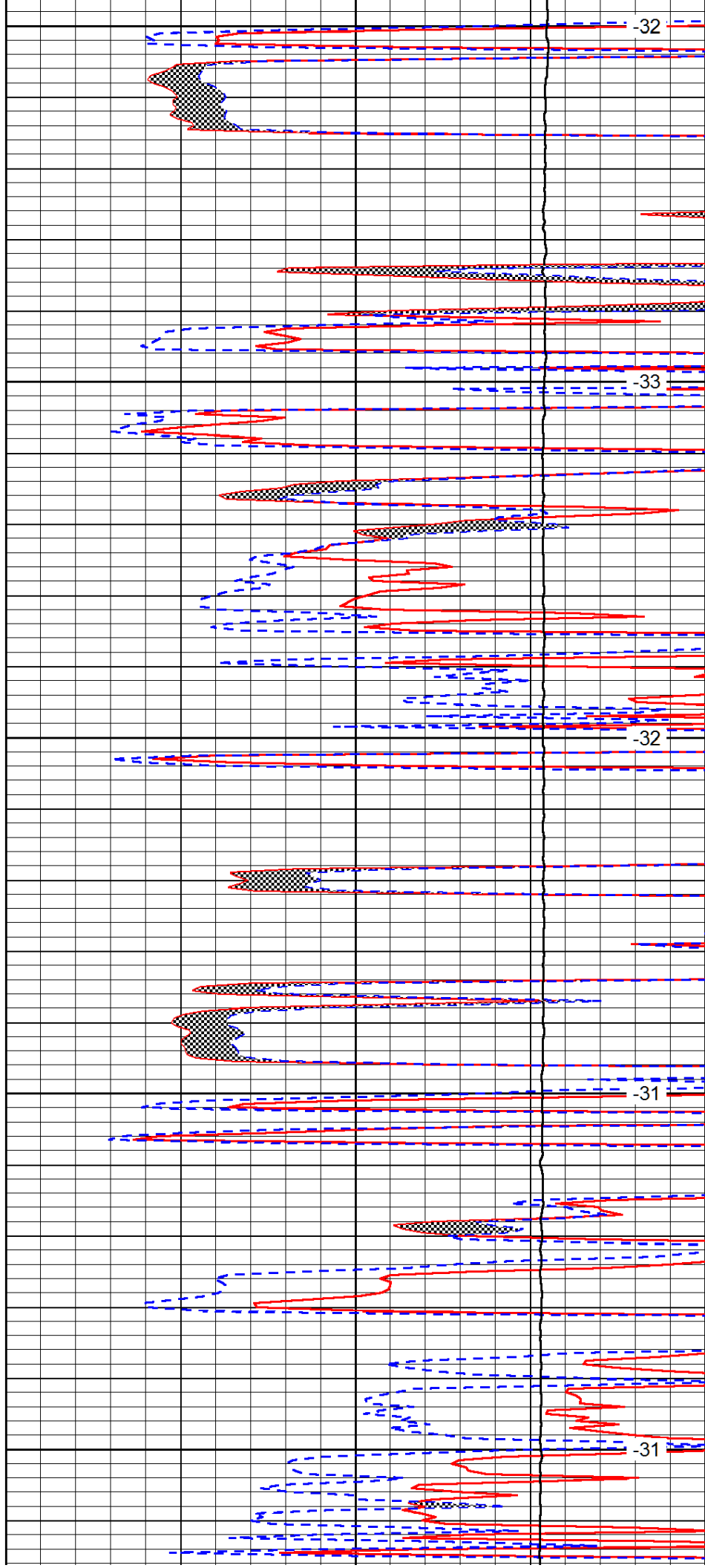
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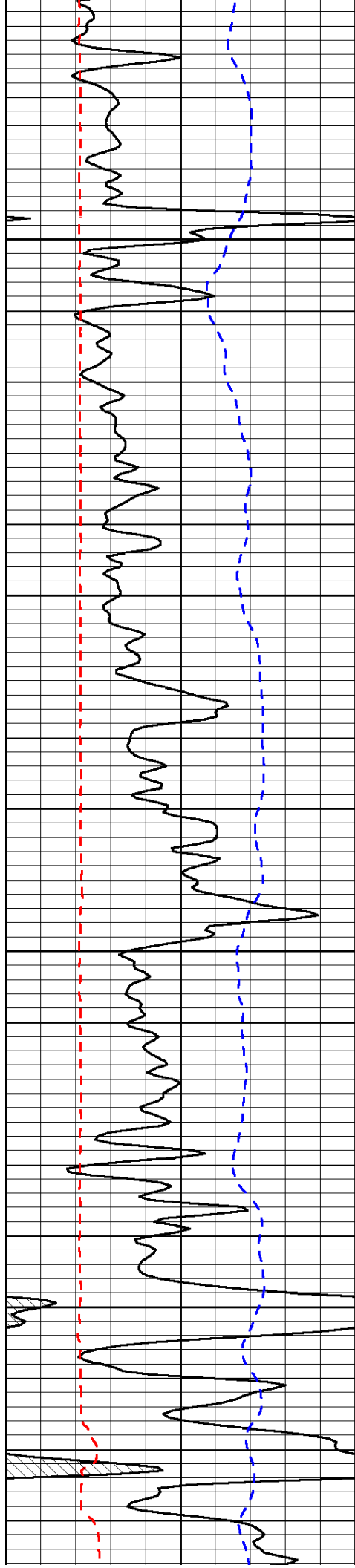
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5150

5200



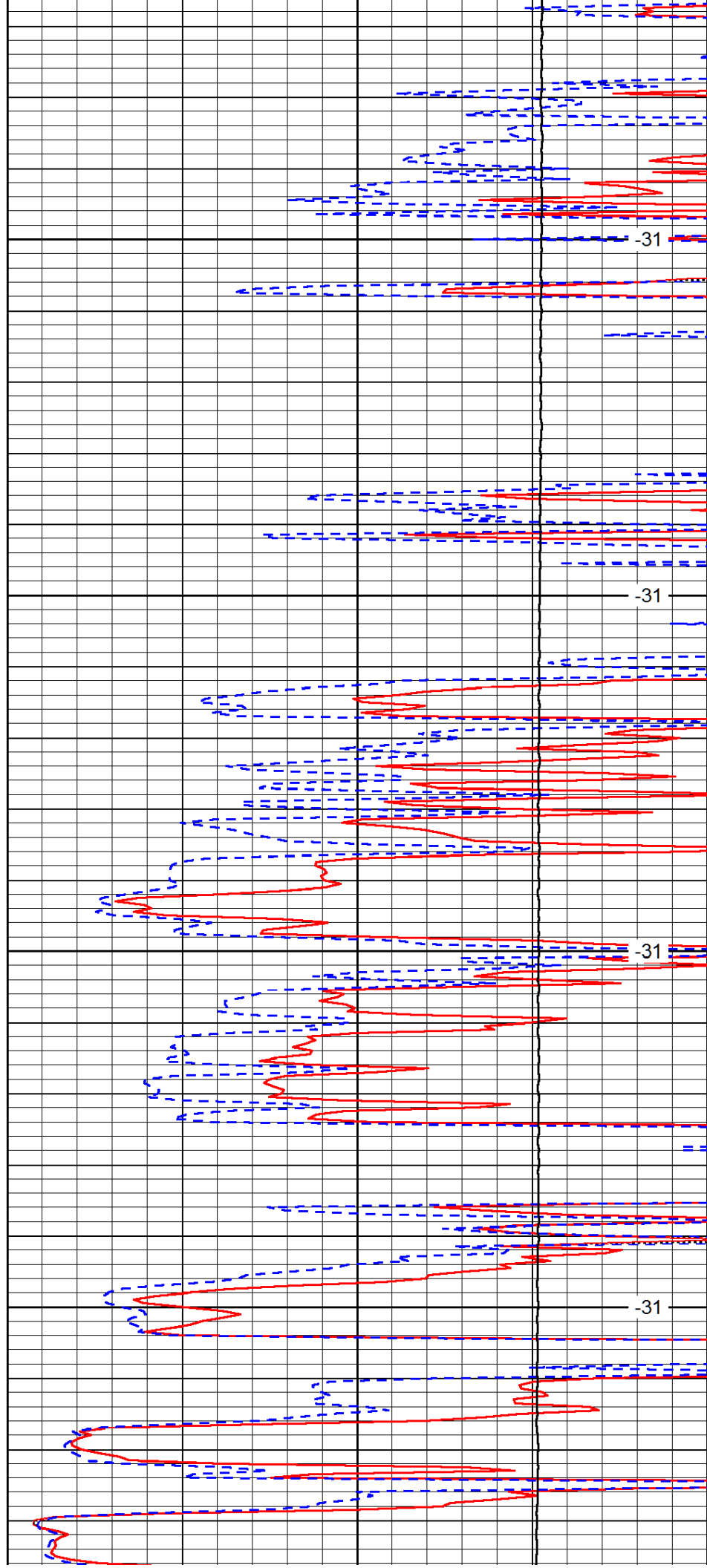


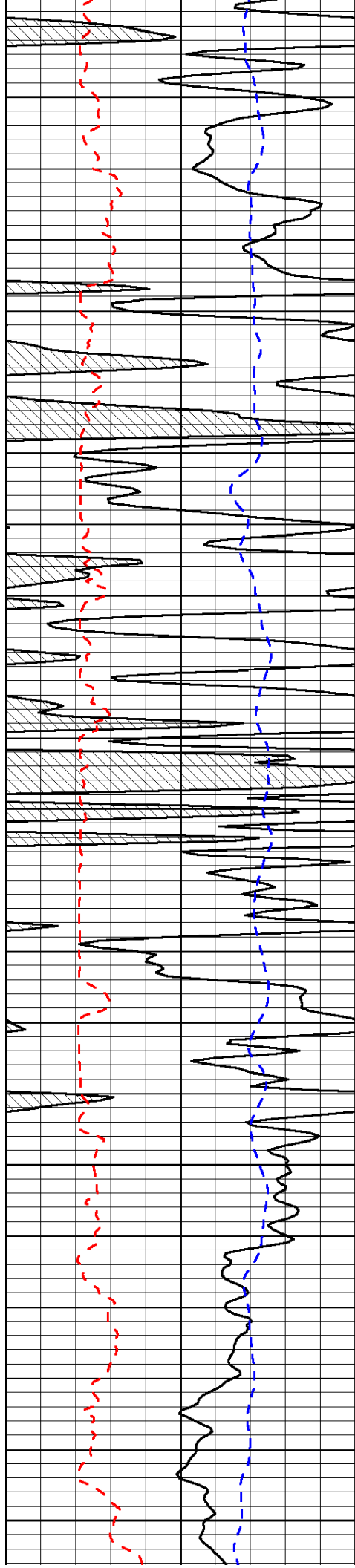
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5400





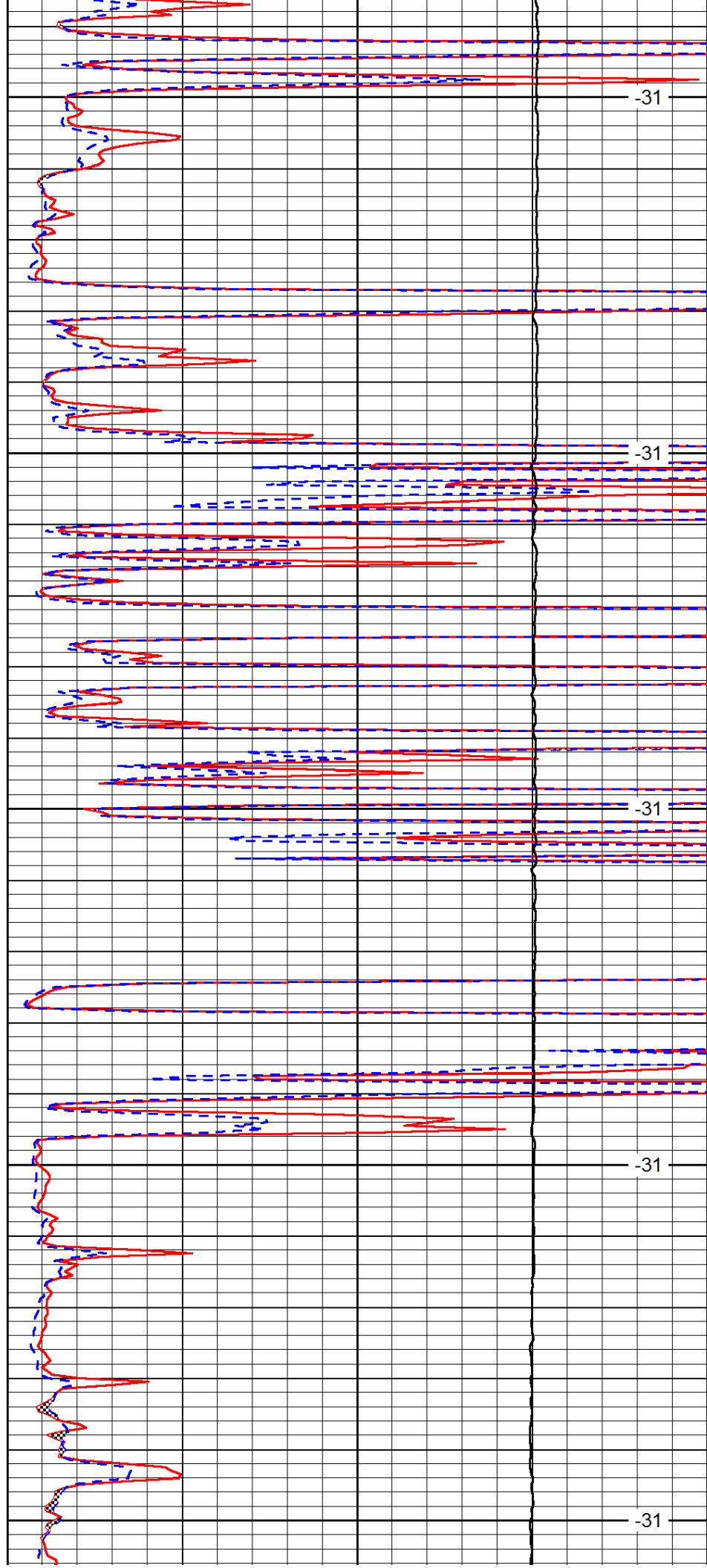
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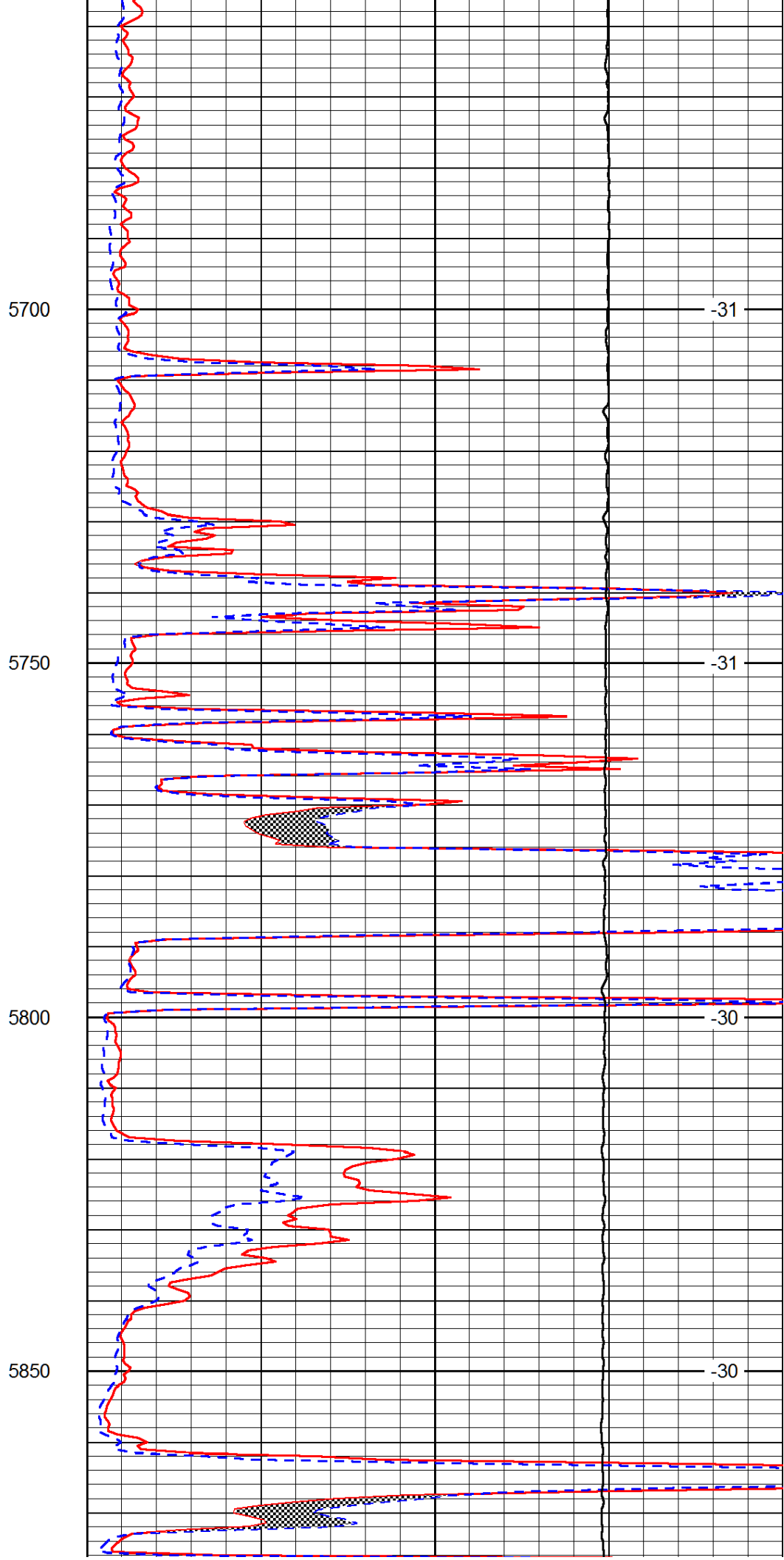
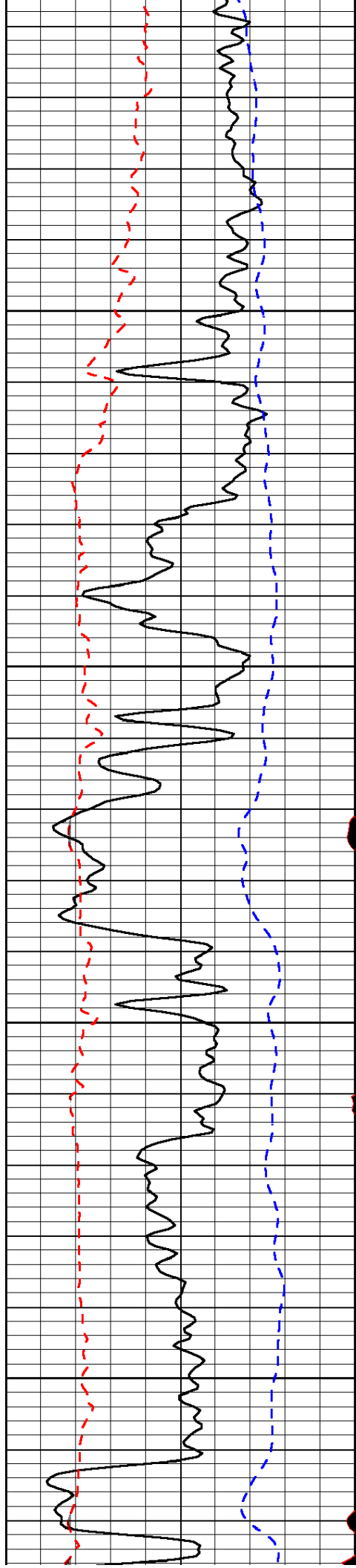
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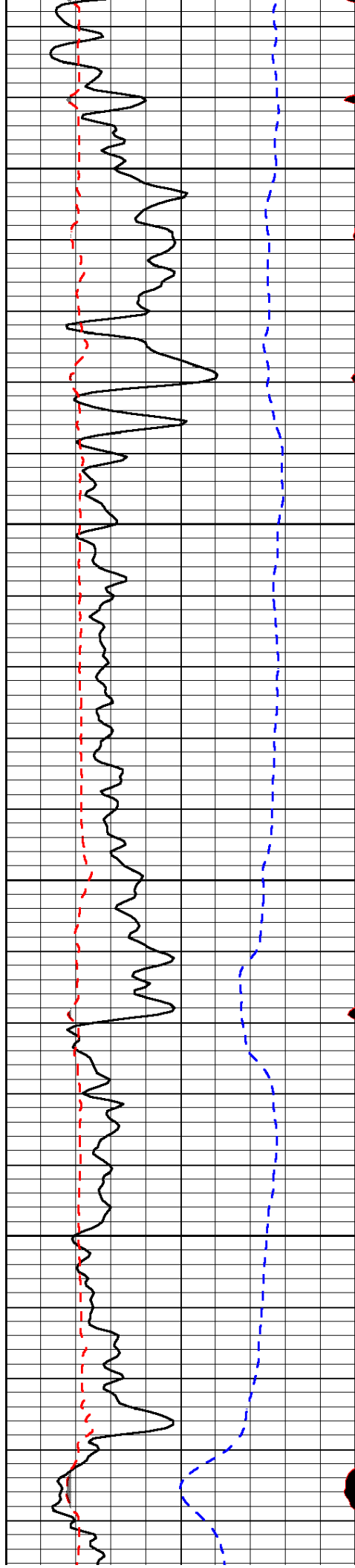
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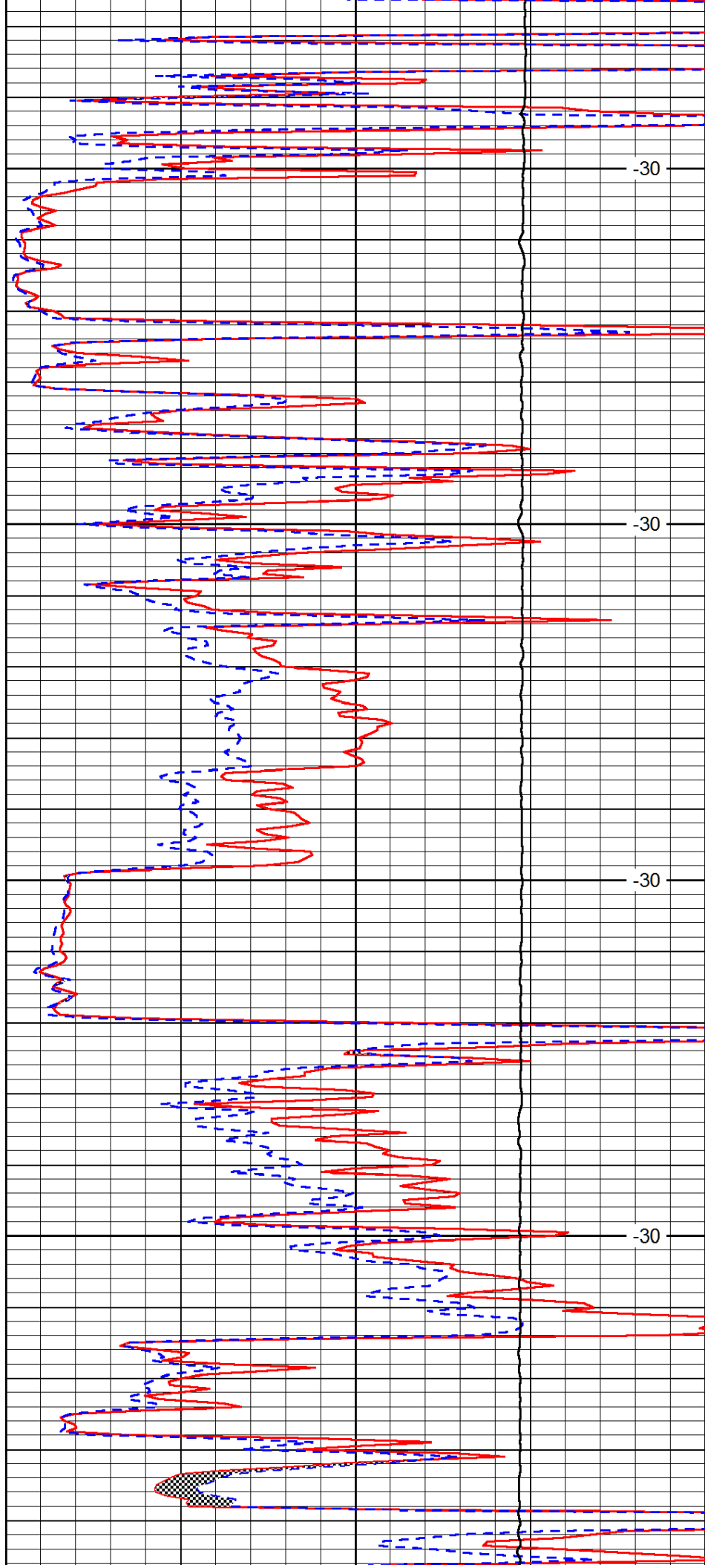


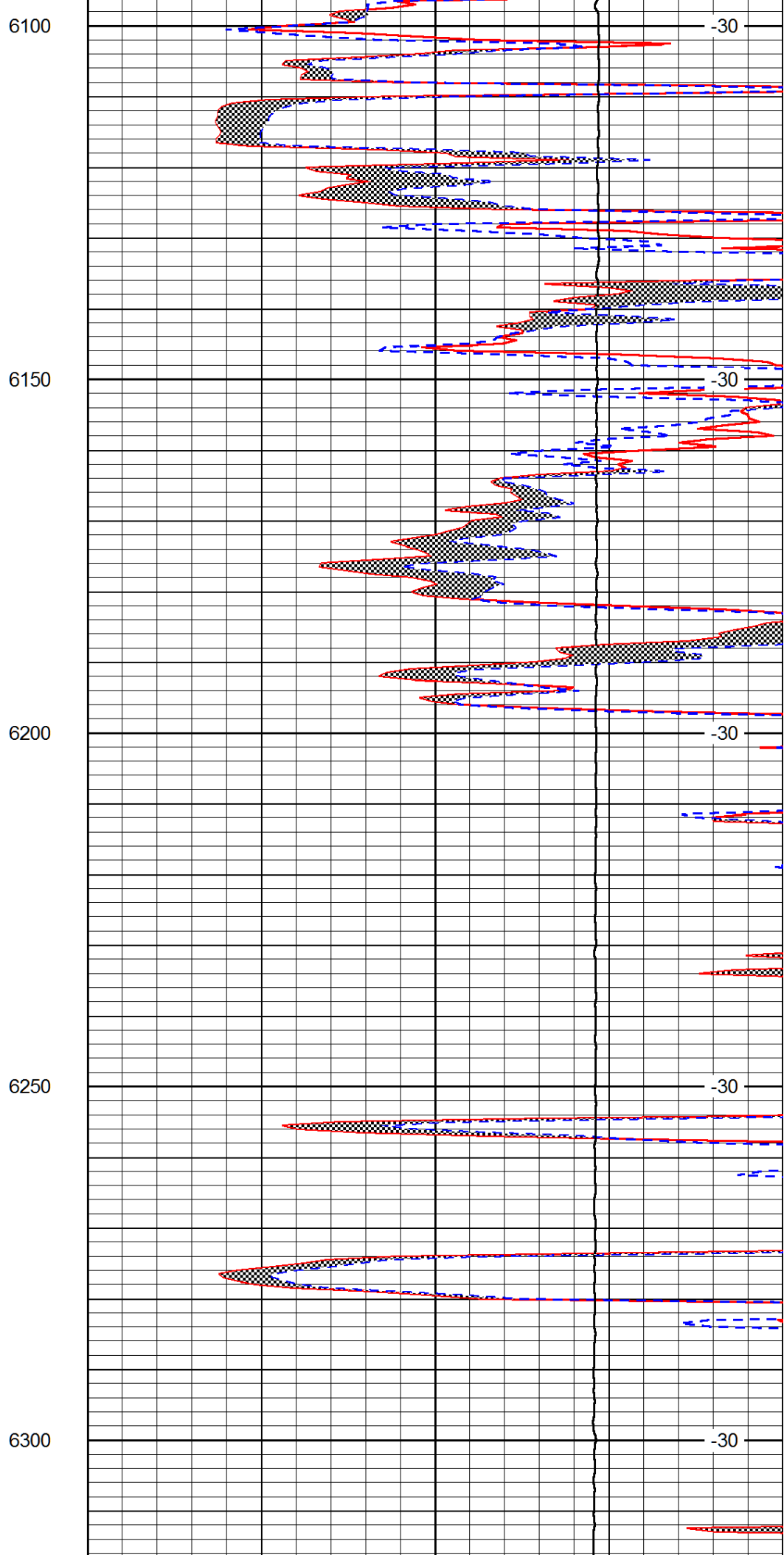
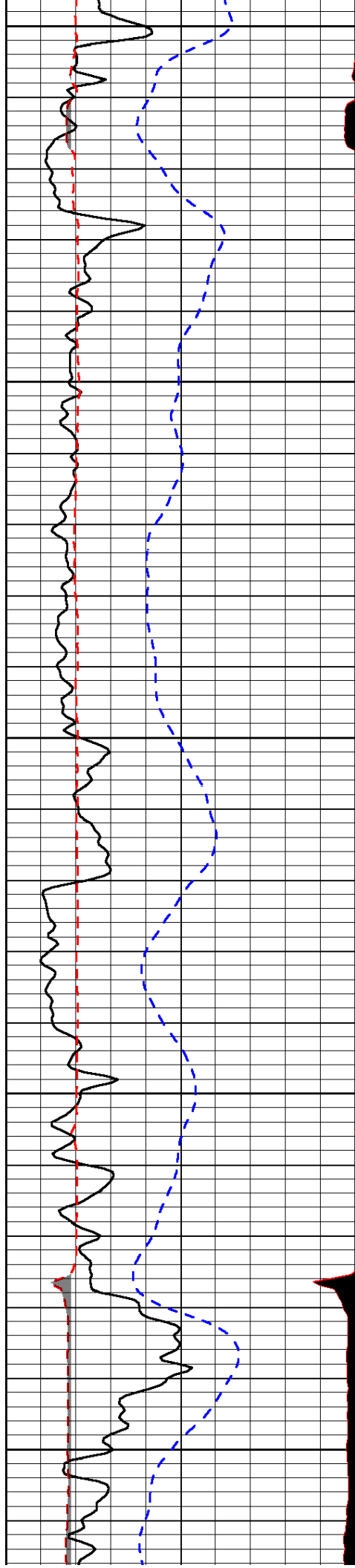
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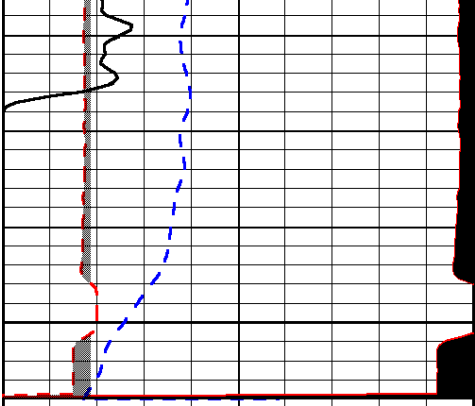
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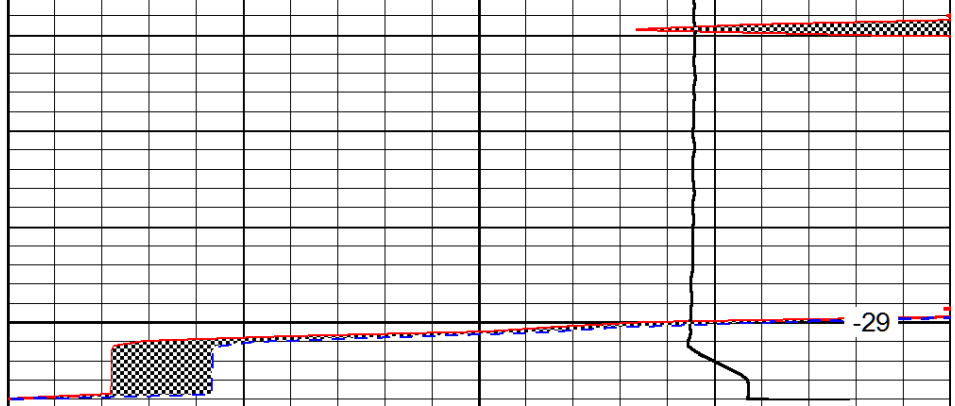






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