



Microresistivity Log

Pioneer Energy Services

API No.

15-009-25,954-00-00

Company F.G. Holl Company, L.L.C.

Well Romine Trust # 3-1

Field Clarence

County Barton State

Kansas

Location

1060' FSL & 1300' FEL

Other Services
CNL/CDL
DIL/BHCS

Sec: 1 Twp: 20 S Rge: 15 W

Permanent Datum Ground Level Elevation 1955
Log Measured From Kelly Bushing 8 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Elevation

K.B. 1963
D.F. 1963
G.L. 1955

Date 03-25-2013

Run Number Two

Depth Driller 3800

Depth Logger 3800

Bottom Logged Interval 3799

Top Log Interval 1750

Casing Driller 8.625 @ 905

Casing Logger 907

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 6800

Density / Viscosity 9.2 53

pH / Fluid Loss 10.0 7.2

Source of Sample Flowline

Rm @ Meas. Temp 0.60 @ 52

Rmf @ Meas. Temp 0.45 @ 52

Rmc @ Meas. Temp 0.81 @ 52

Source of Rmf / Rmc Charts

Rm @ BHT 0.27 @ 114

Operating Rig Time 5 1/2 Hours

Max Rec. Temp. F 114

Equipment Number 15

Location Hays

Recorded By Y. Ruiz

Witnessed By Rene Husted

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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

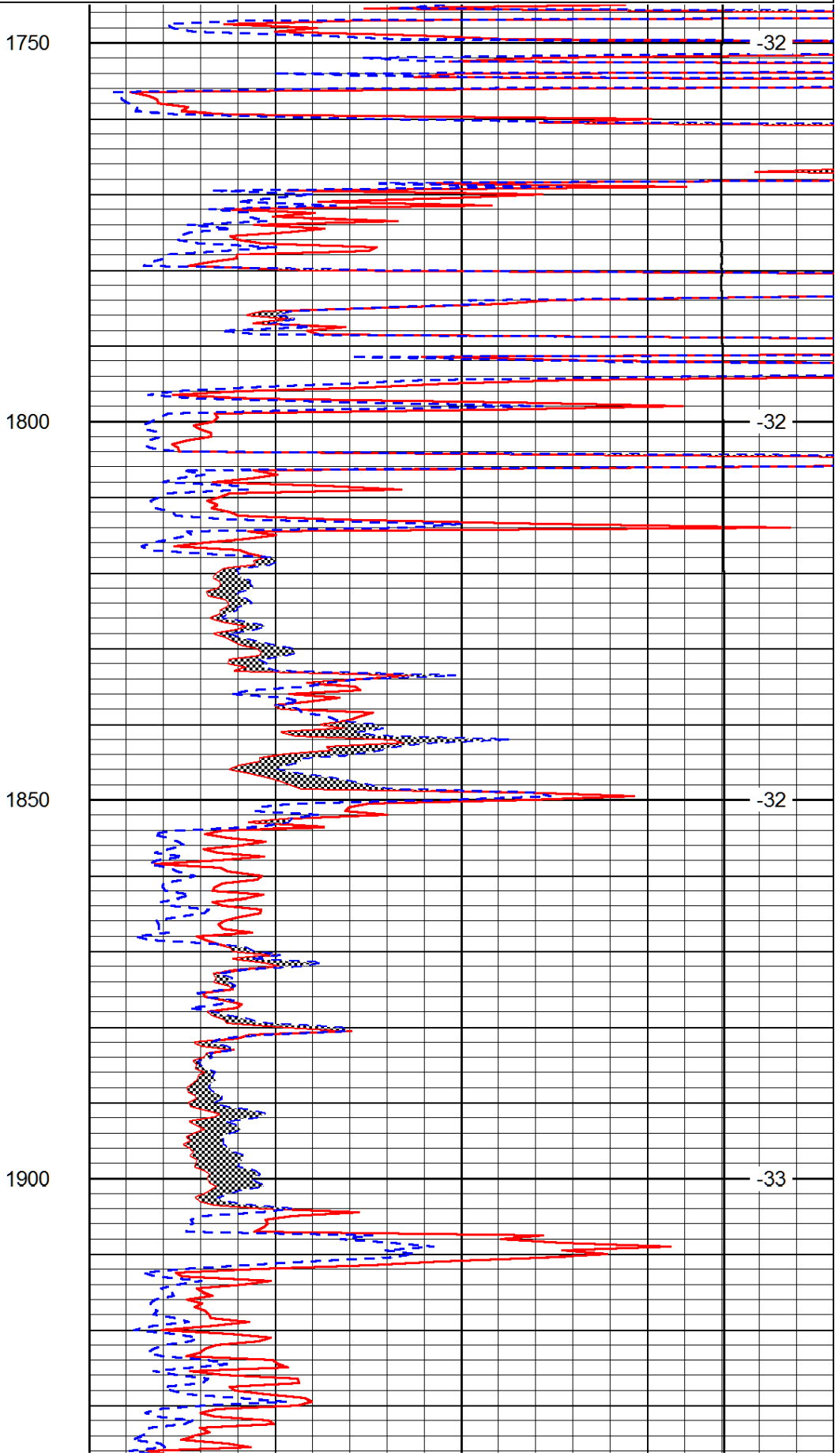
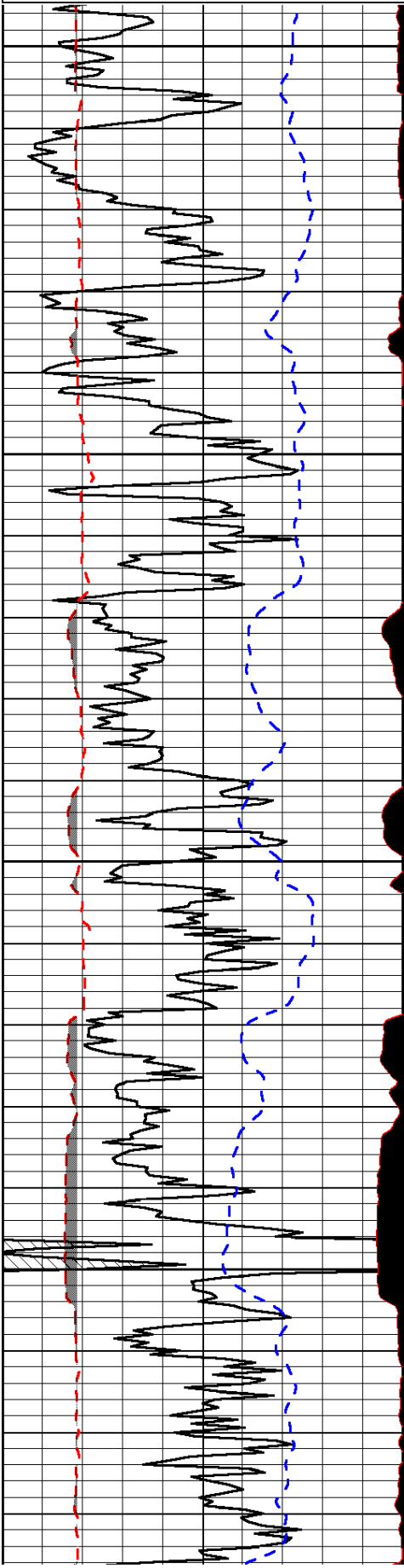
Thank you for using Log-Tech, Inc.
(785) 625-3858

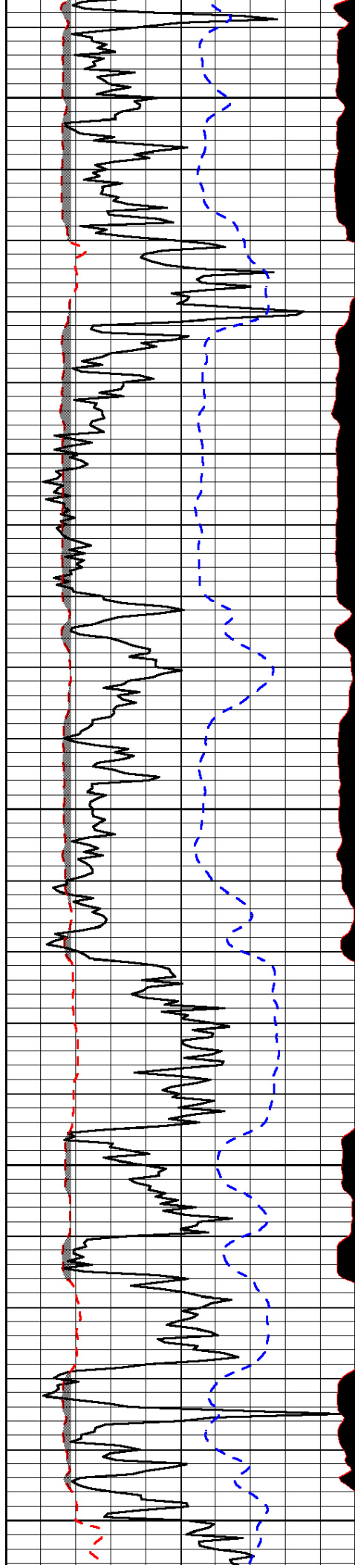
Heizer,
6 South, 2 1/2 West,
North and East into

Database File: fgholl_romine_hd.db
Dataset Pathname: DIL/fgstk
Presentation Format: micro
Dataset Creation: Tue Mar 25 12:05:27 2014
Charted by: Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
6	MCAL (in)	16
2.875	Mud Cake (in)	7.875
-200	SP (mV)	0

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





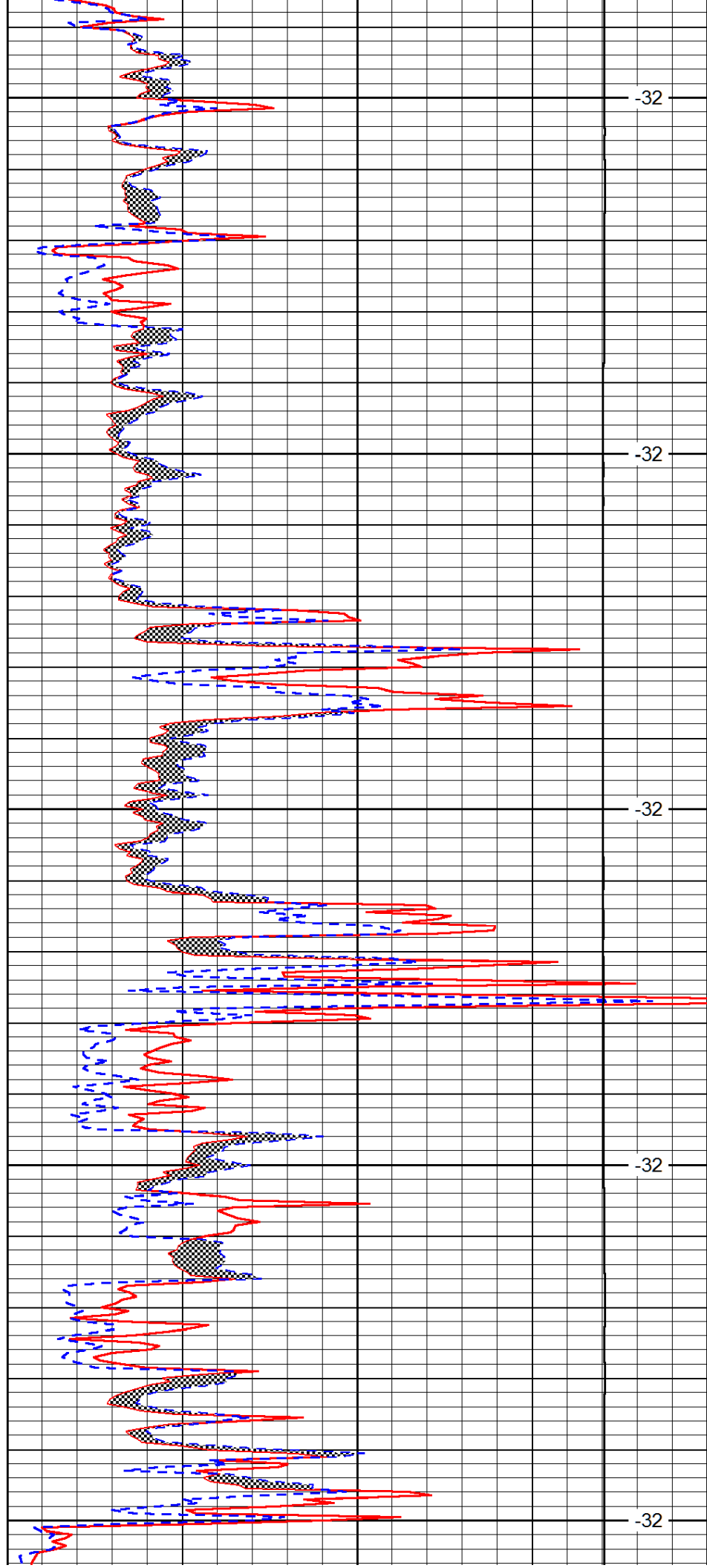
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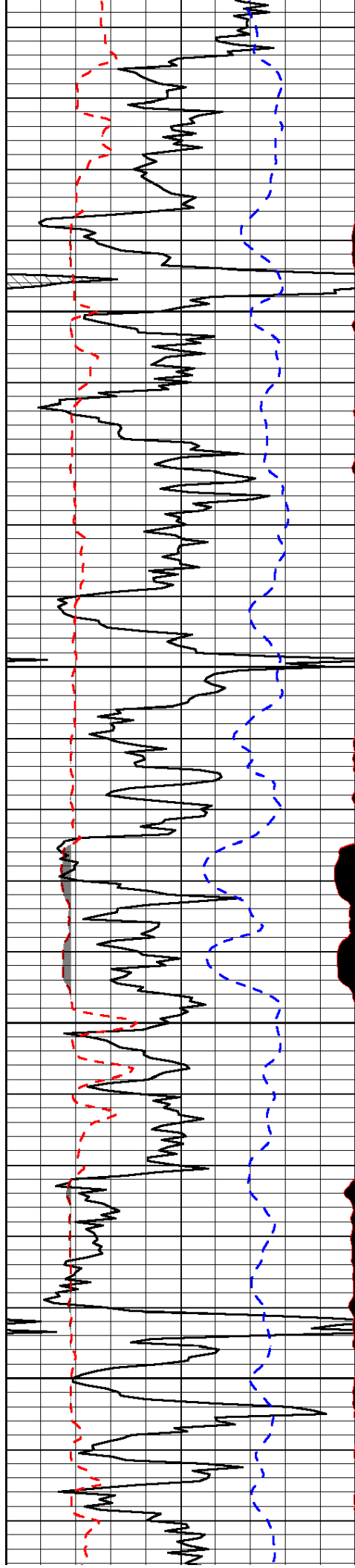
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2050

2100

2150



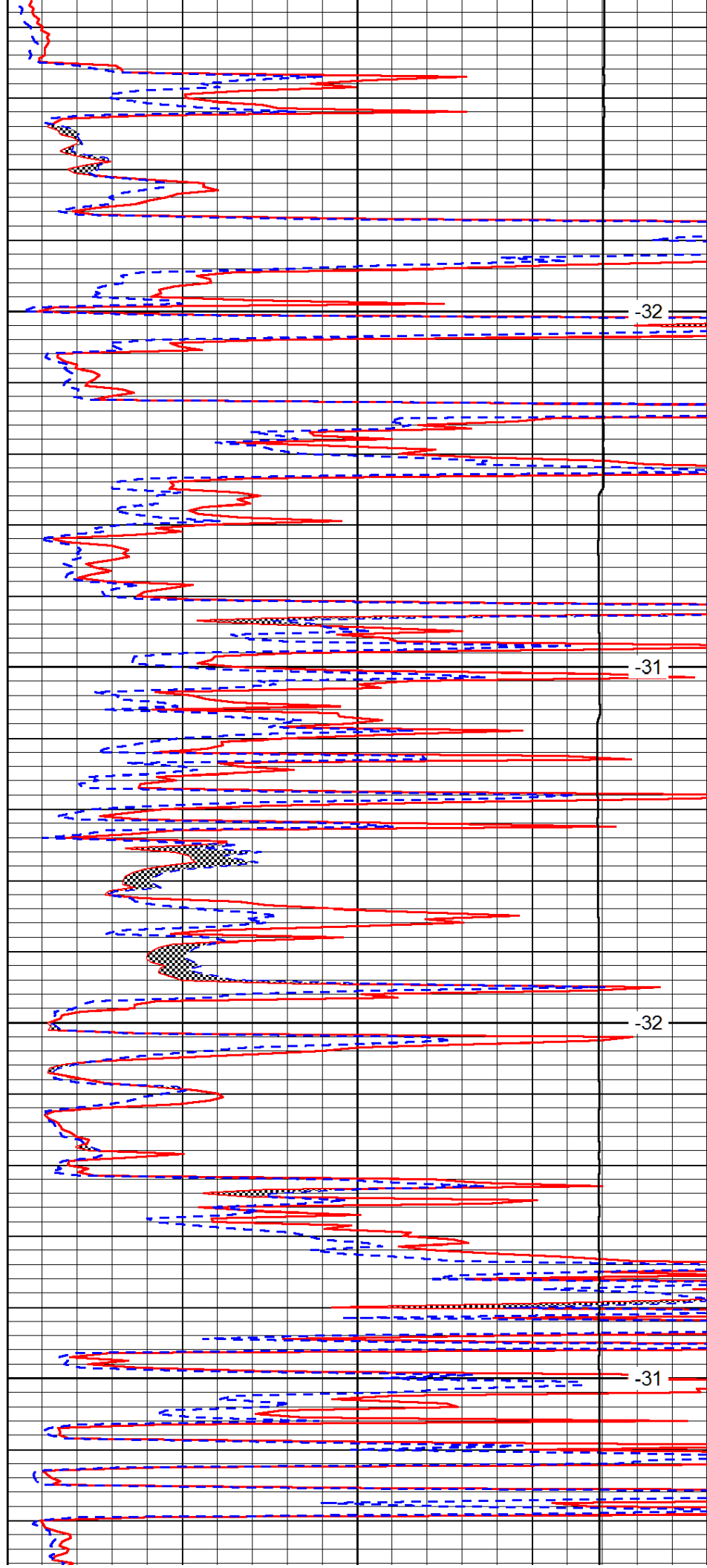


2200

2250

2300

2350

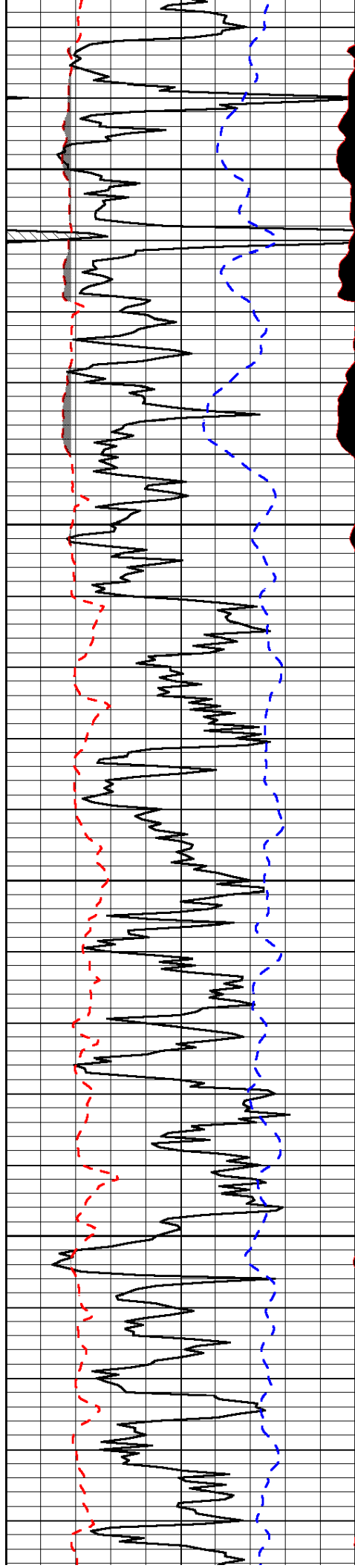


-32

-31

-32

-31

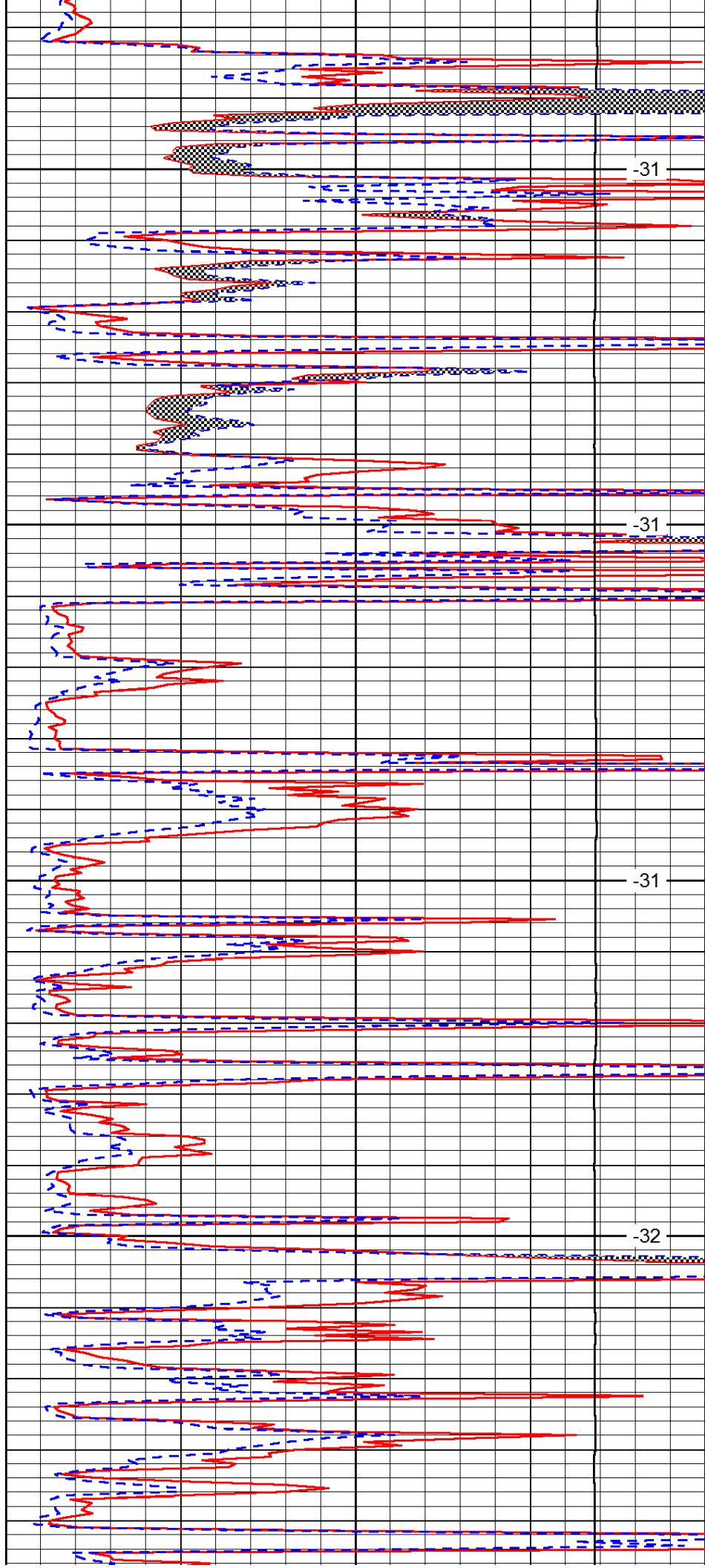


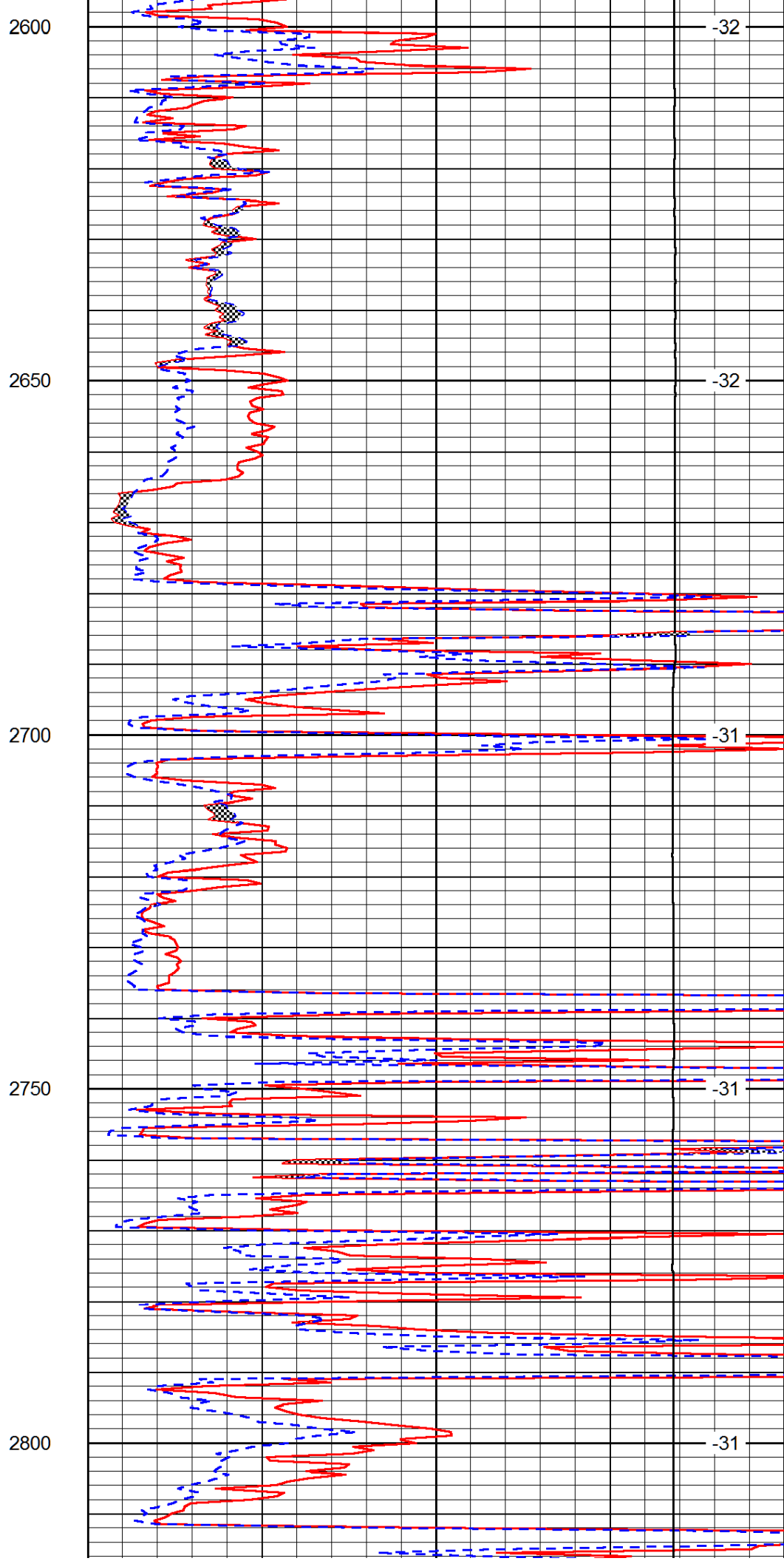
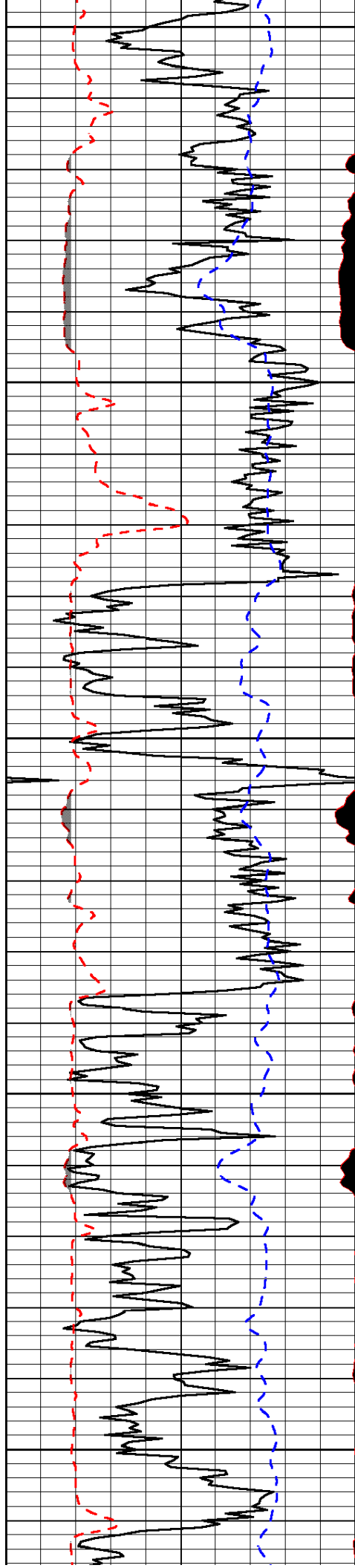
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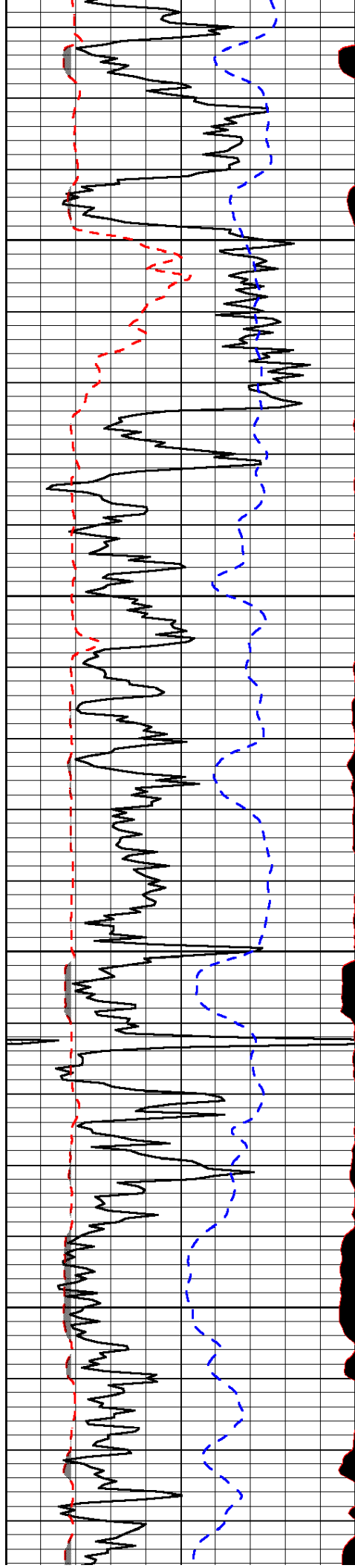
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2550





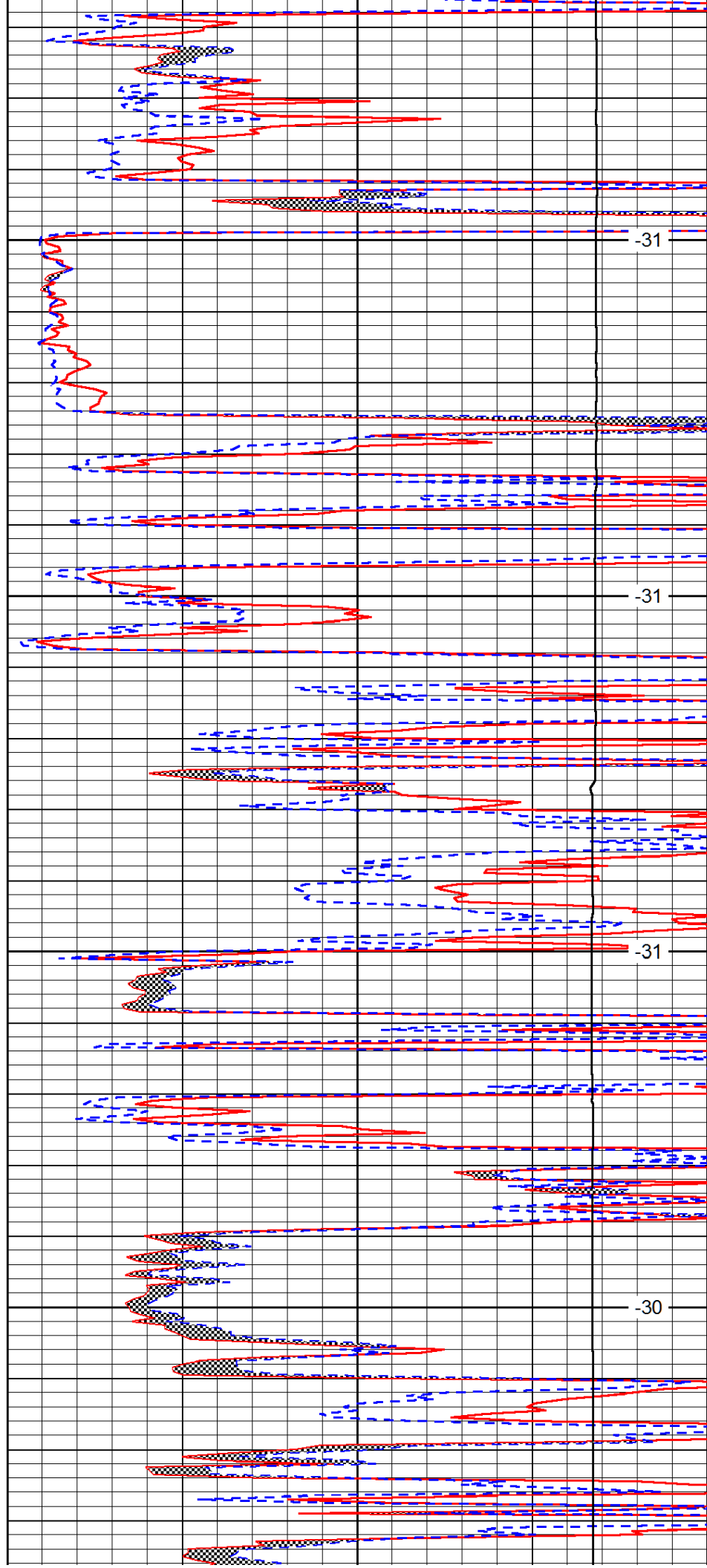


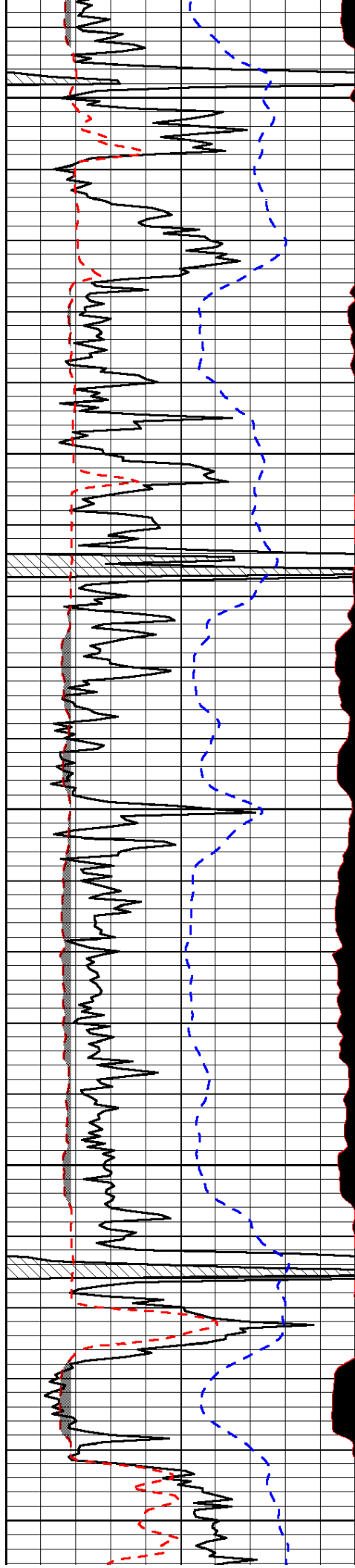
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2900

2950

3000





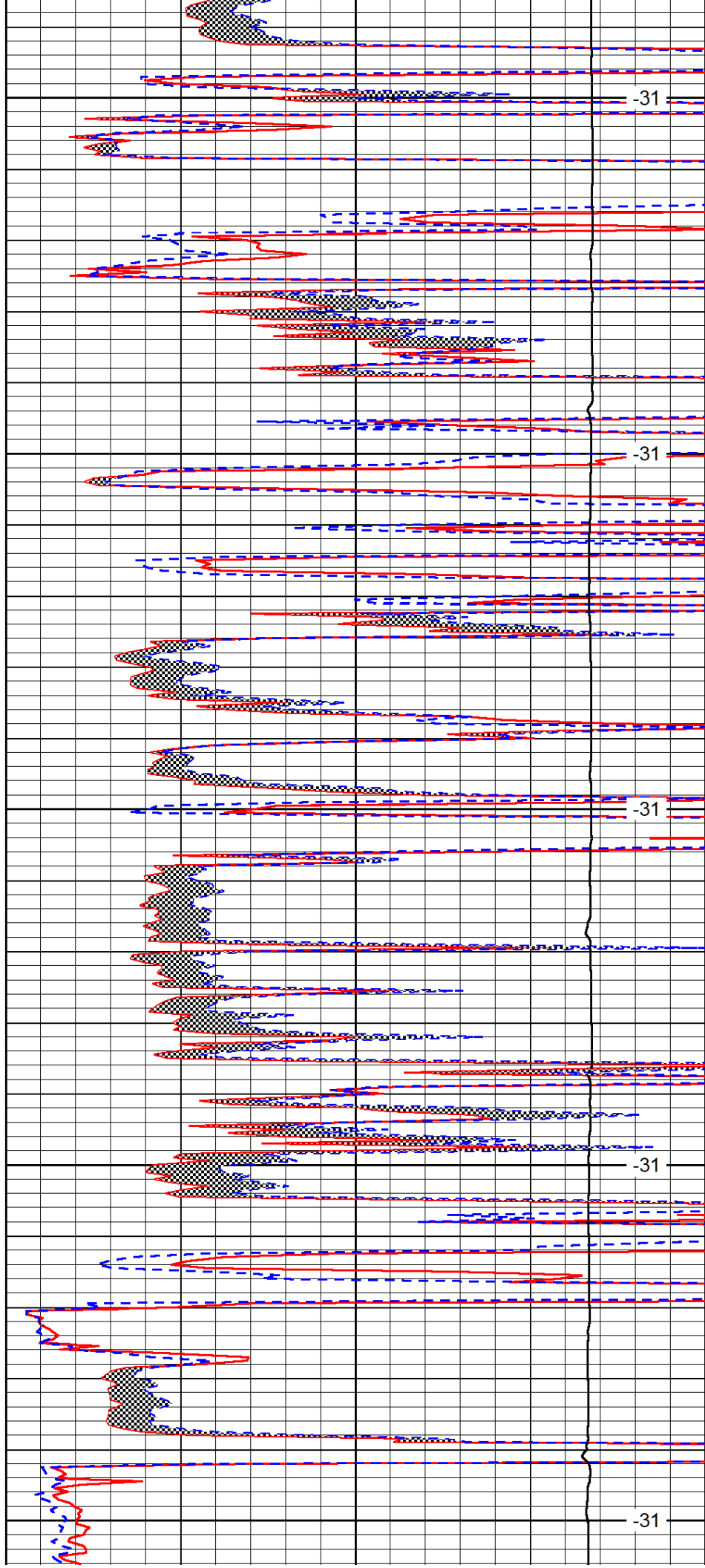
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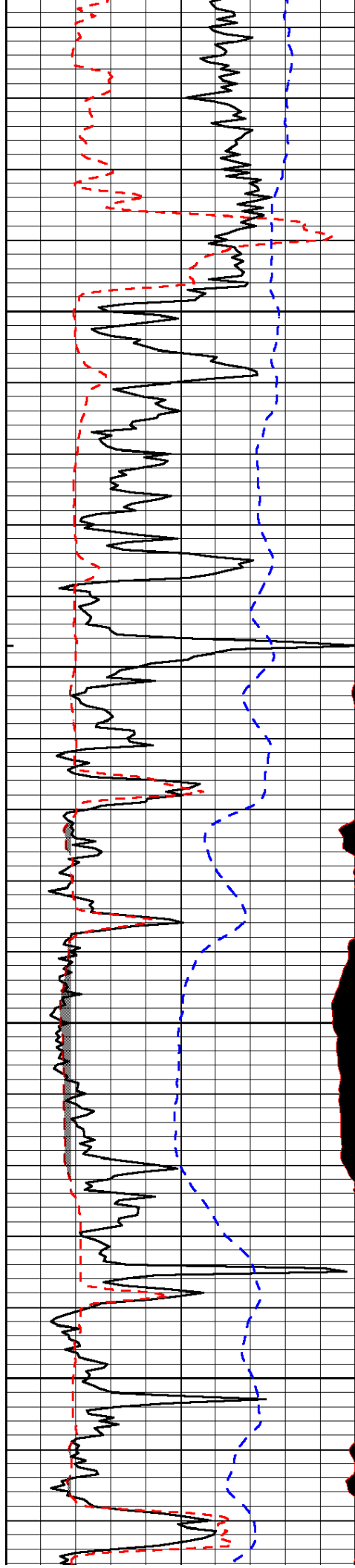
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3150

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3250



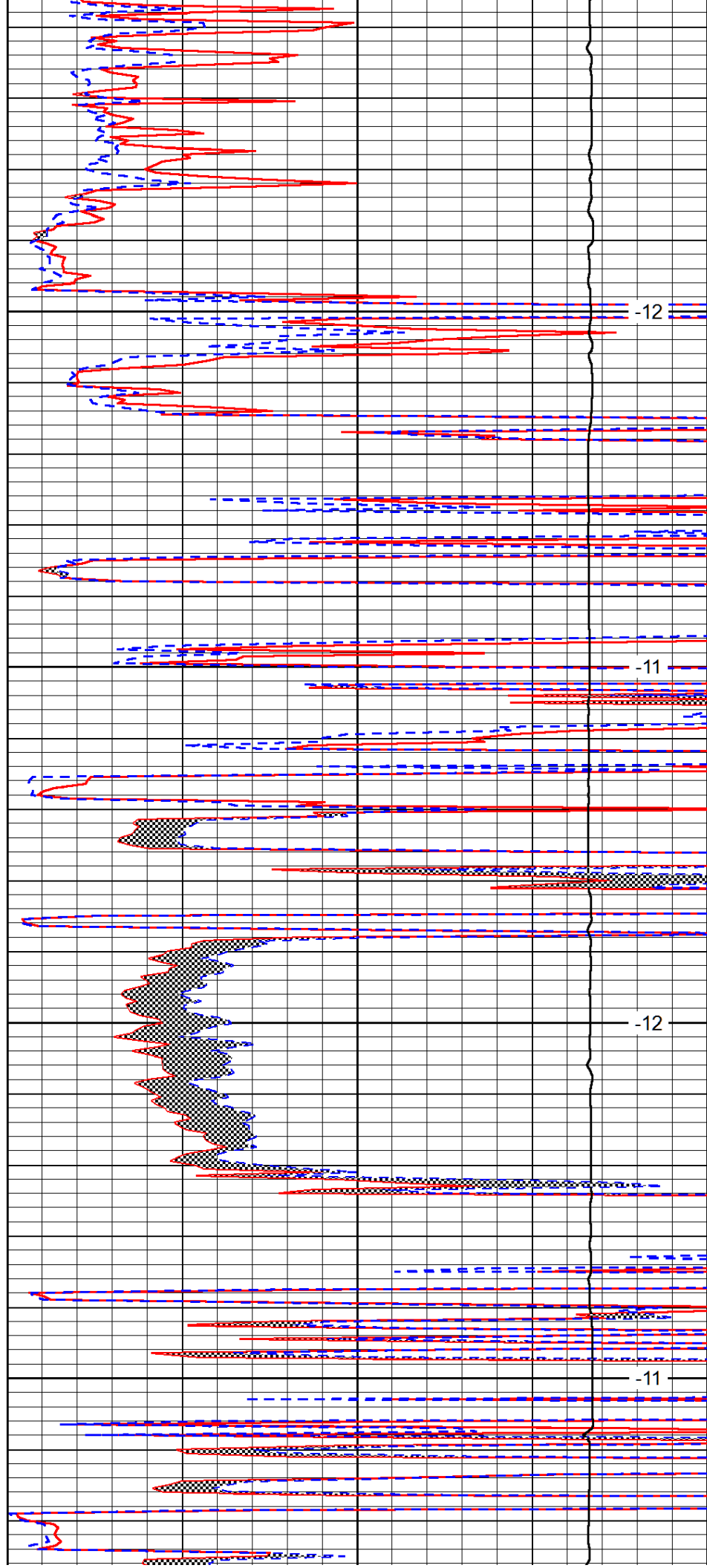


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3400

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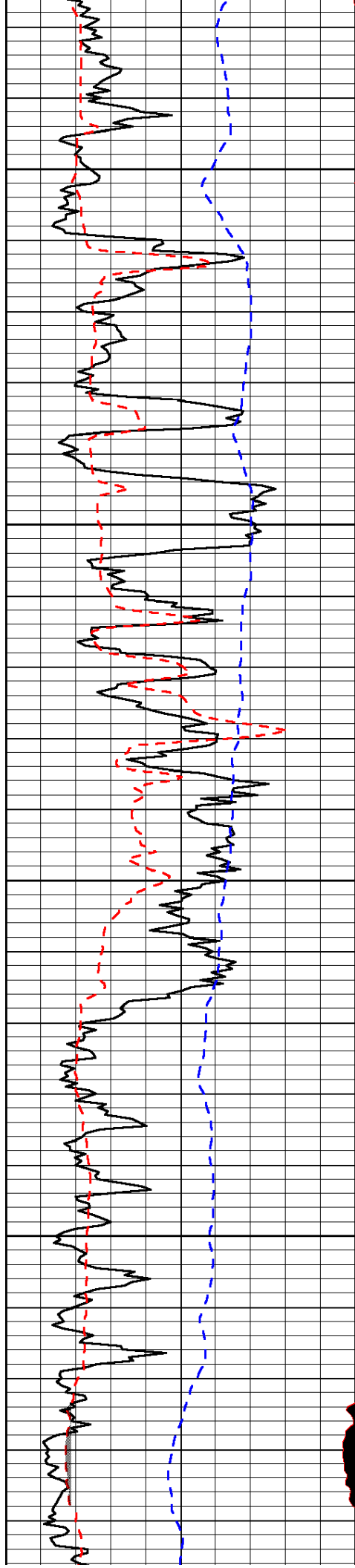


-12

-11

-12

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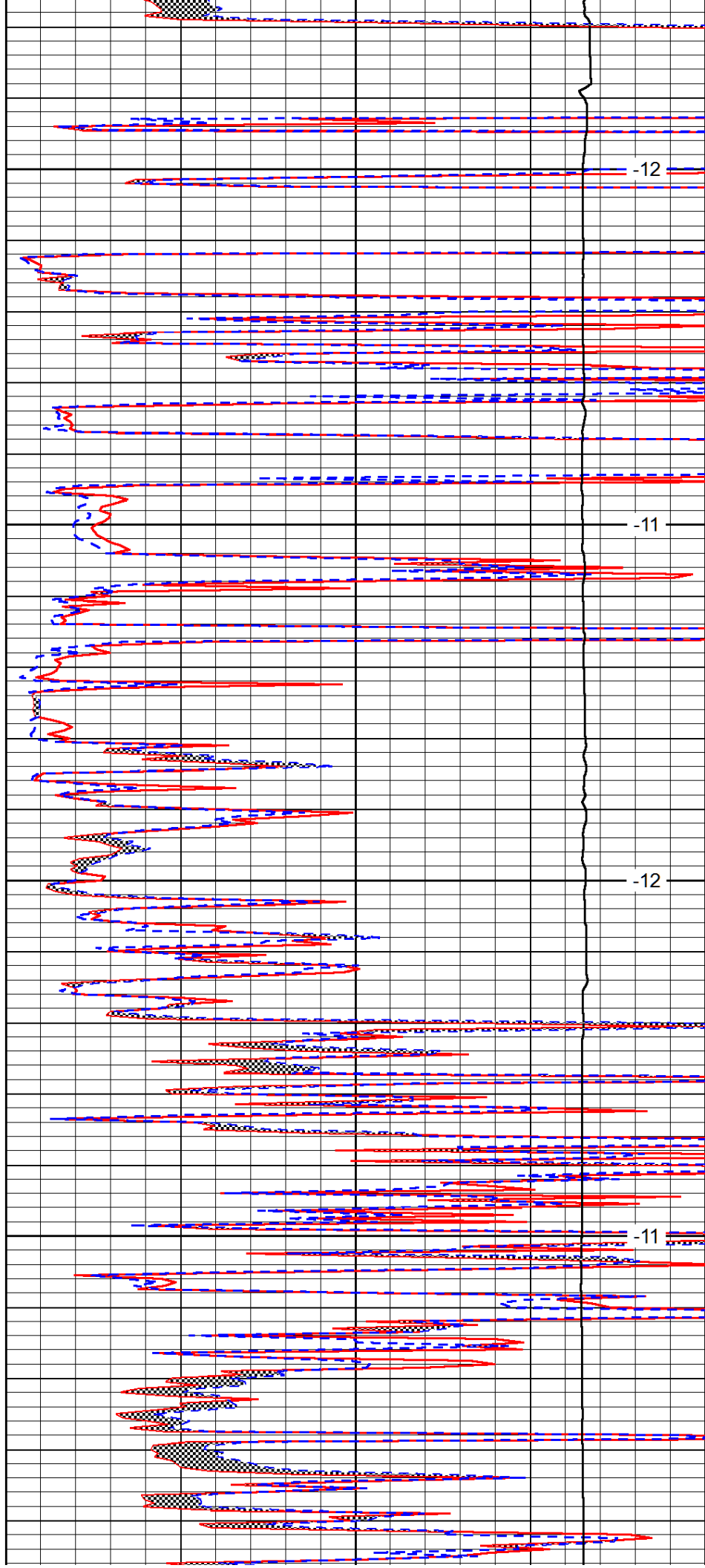


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3600

3650

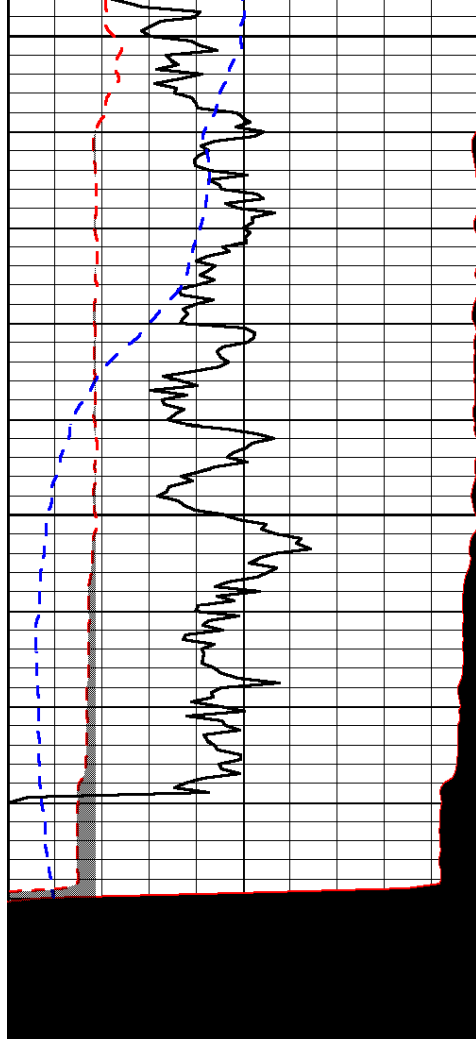


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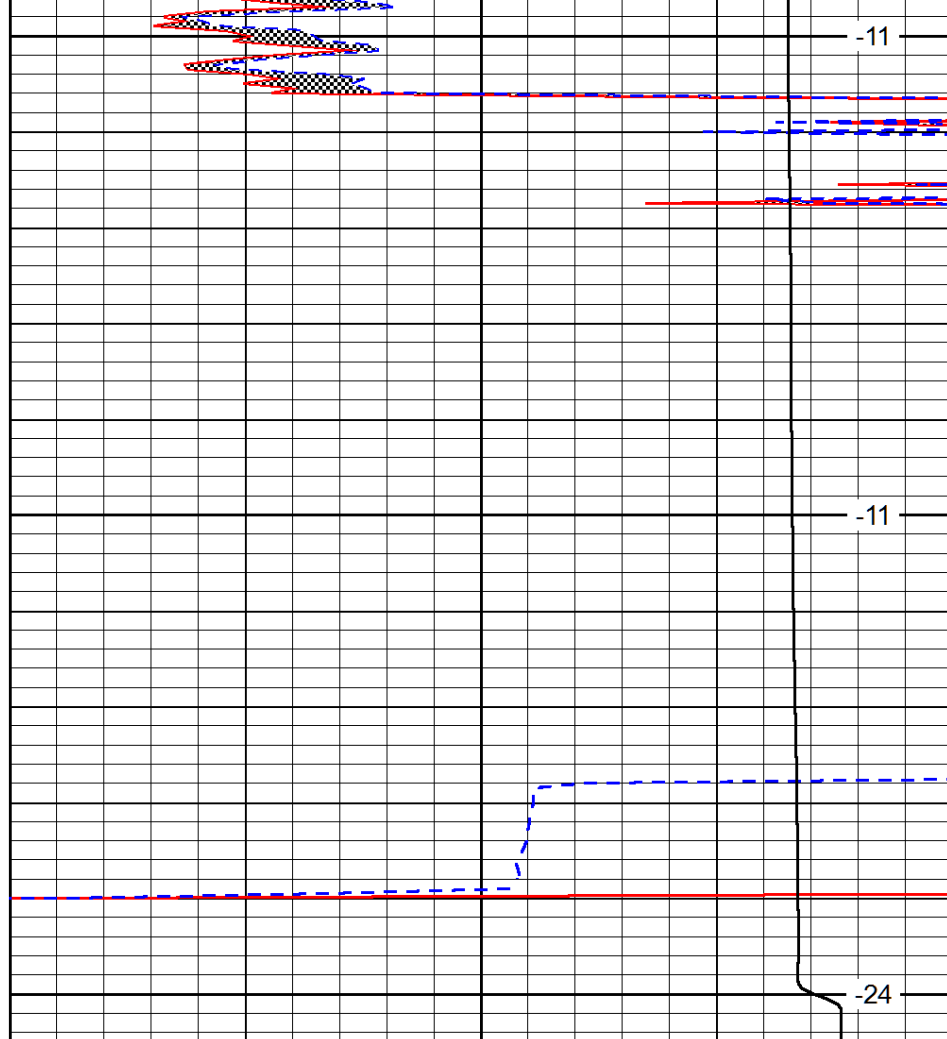


0	Gamma Ray (GAPI)	150
6	MCAL (in)	16
2.875	Mud Cake (in)	7.875
-200	SP (mV)	0

3700

3750

3800



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

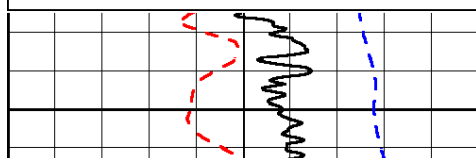
LSPD
(ft/min)

High Resolution

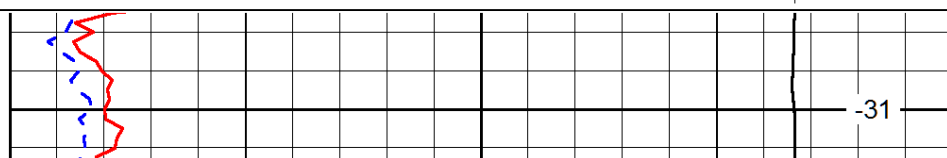
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6	MCAL (in)	16
2.875	Mud Cake (in)	7.875
-200	SP (mV)	0

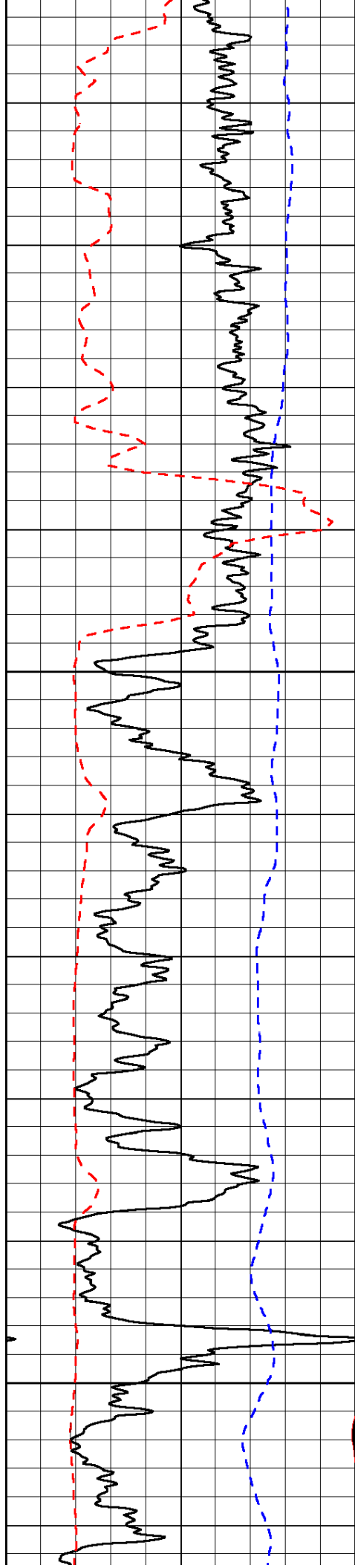
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10000	Line Weight (lb)	0

LSPD
(ft/min)

3250

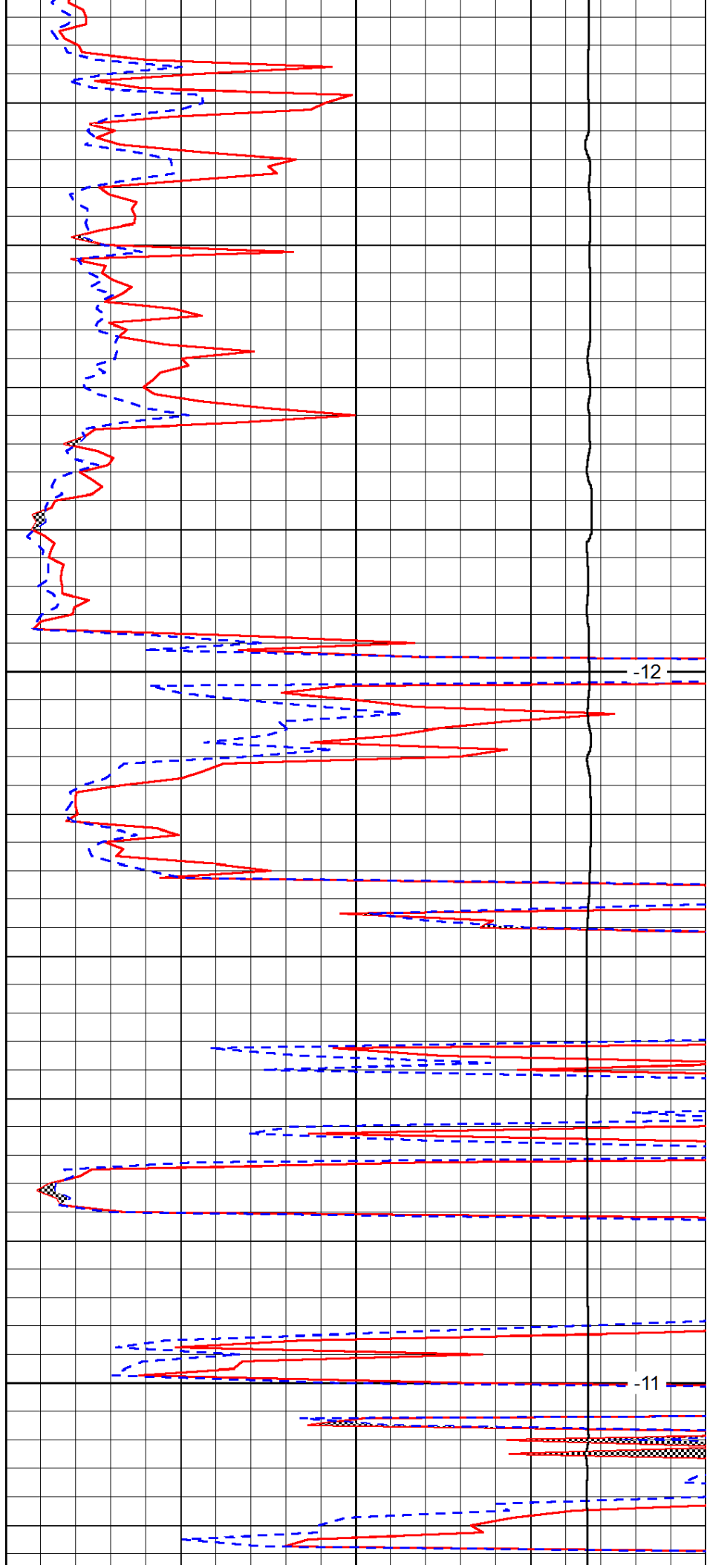


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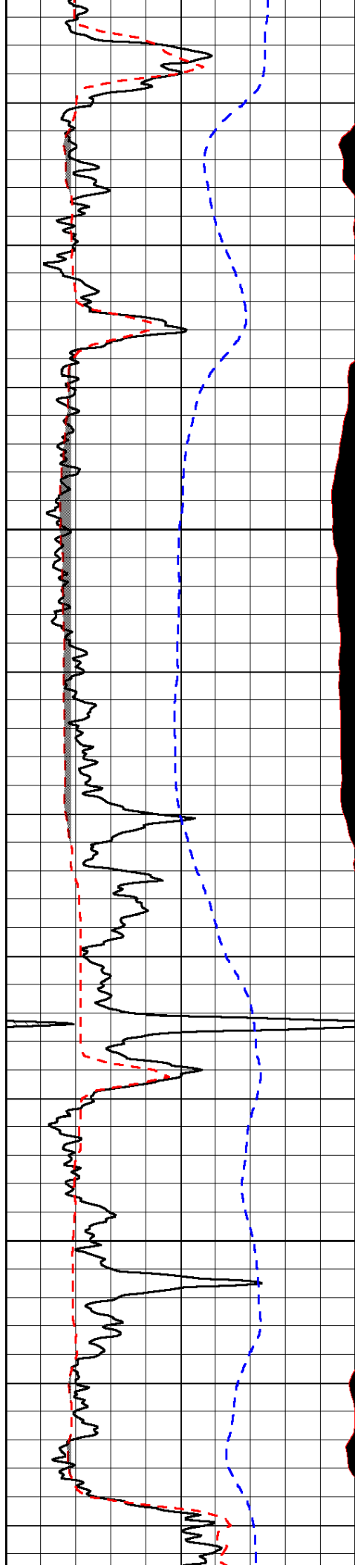
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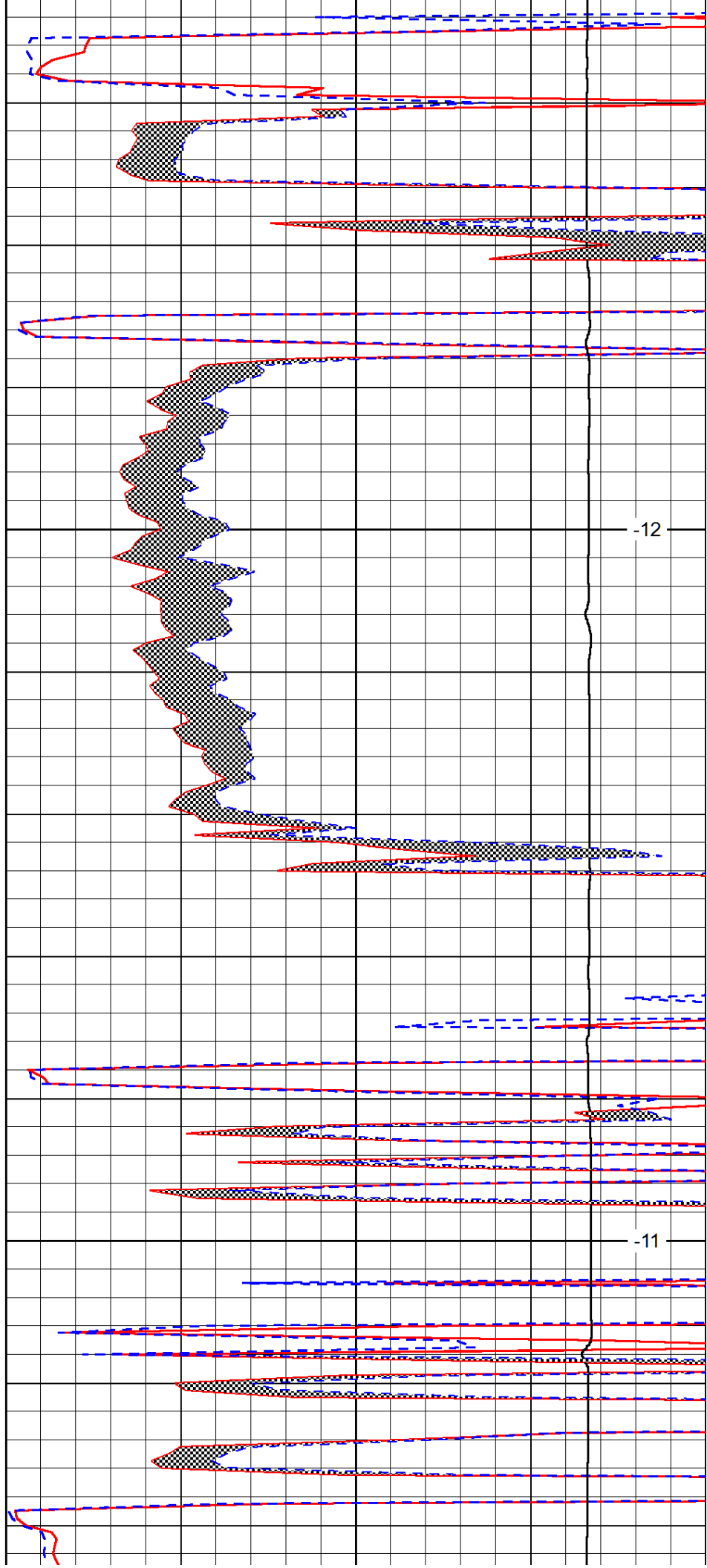
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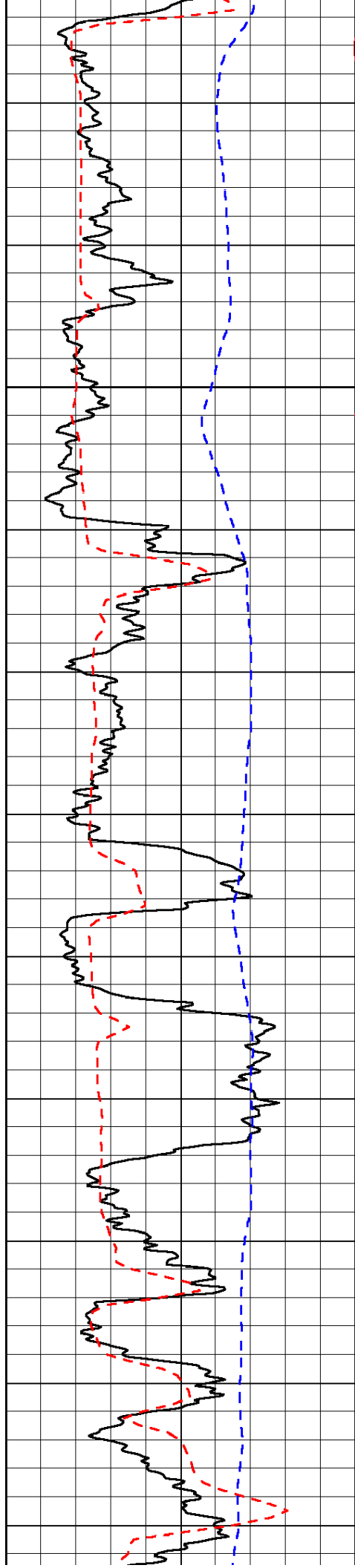
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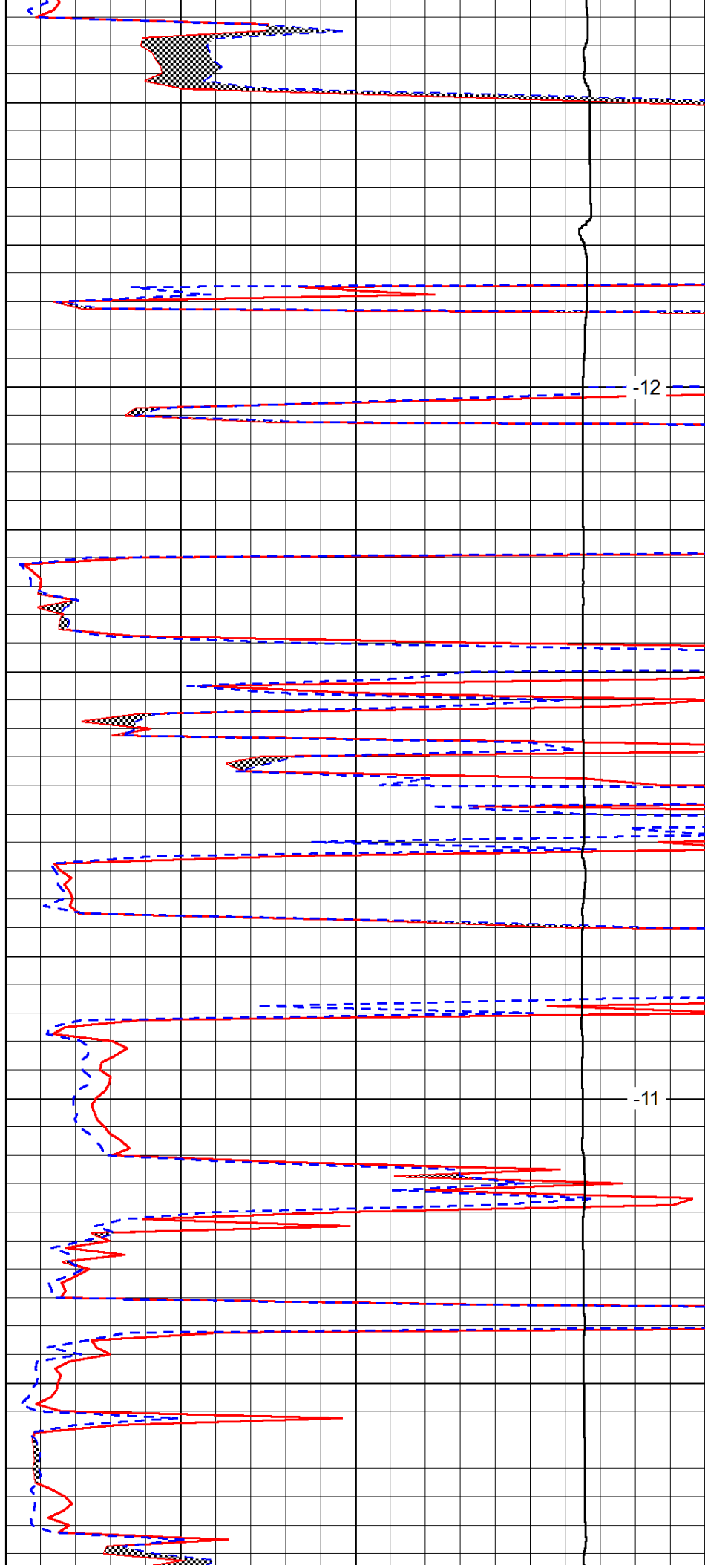
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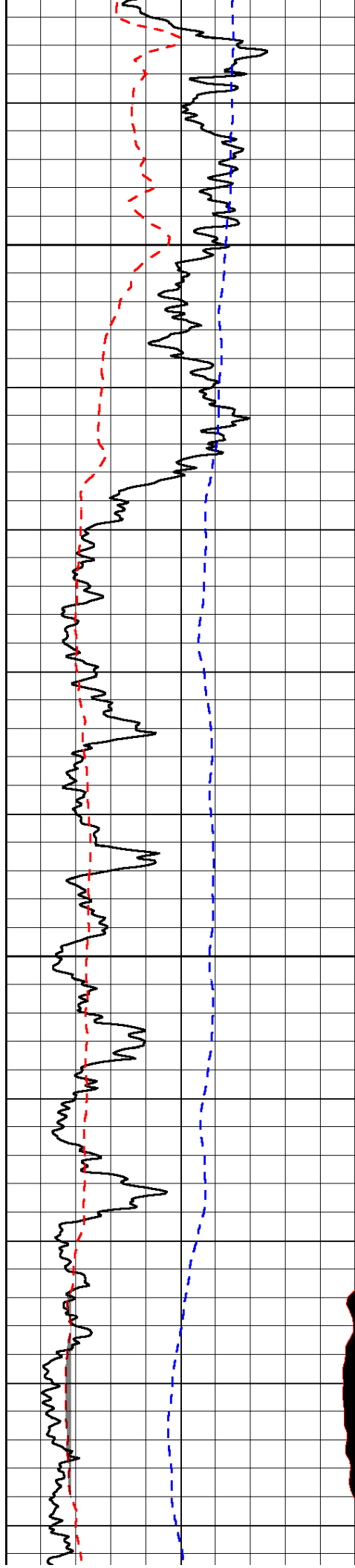




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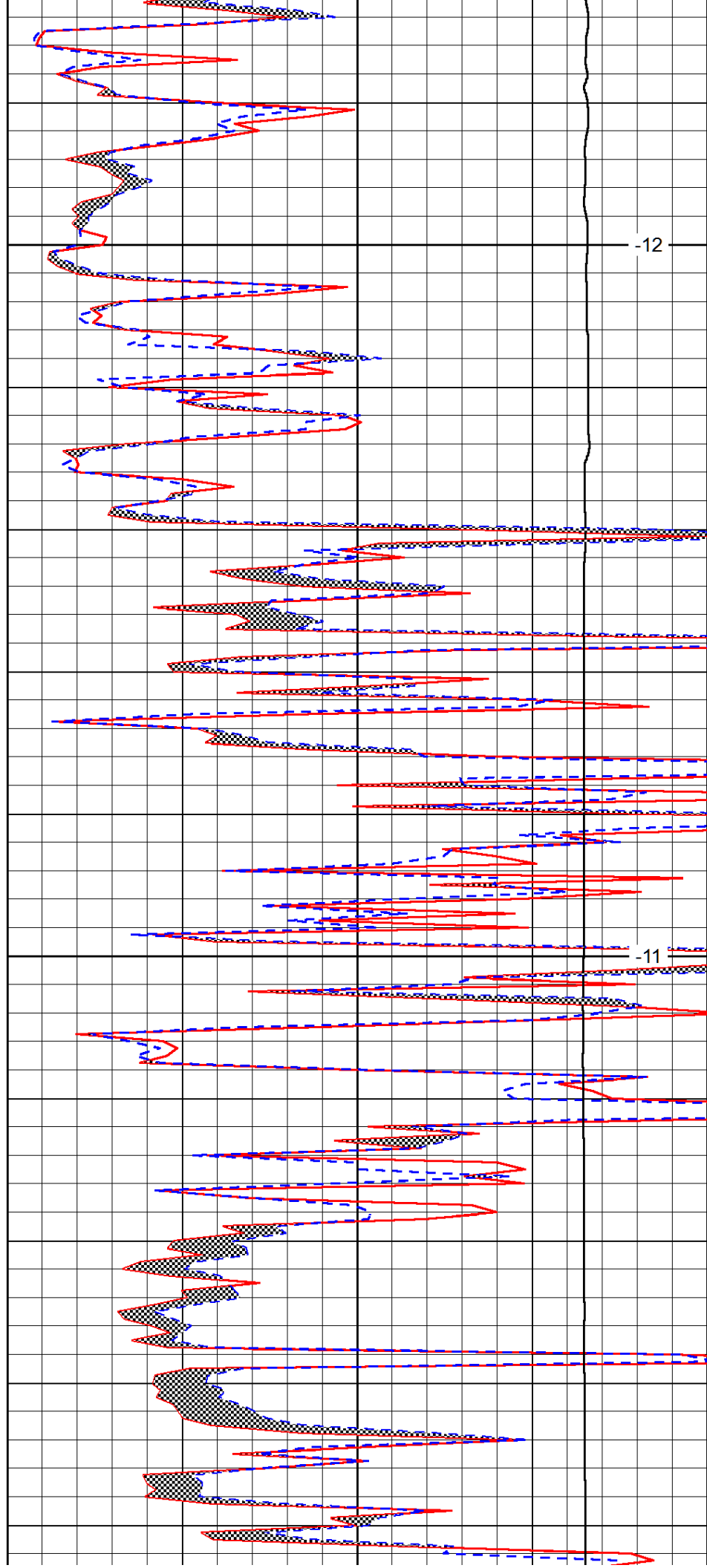
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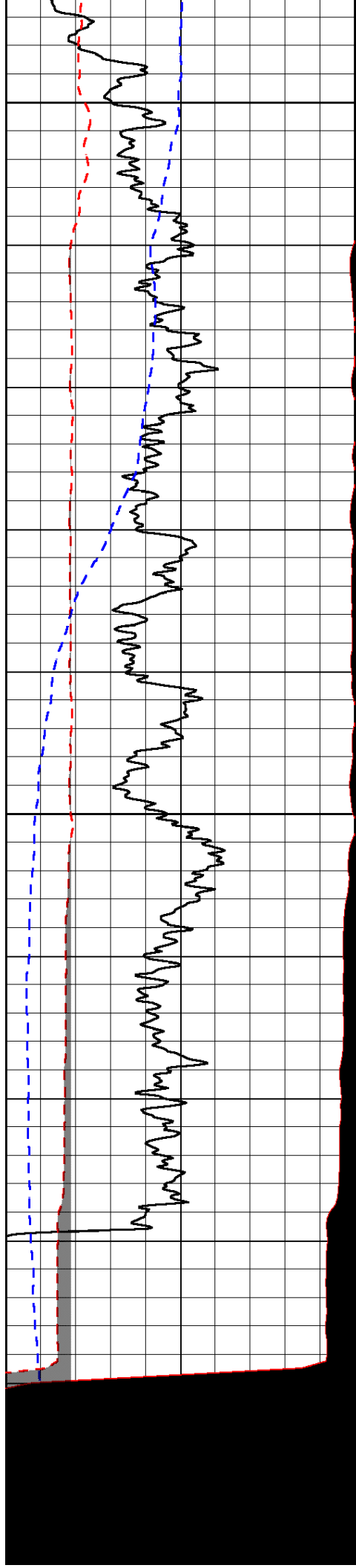
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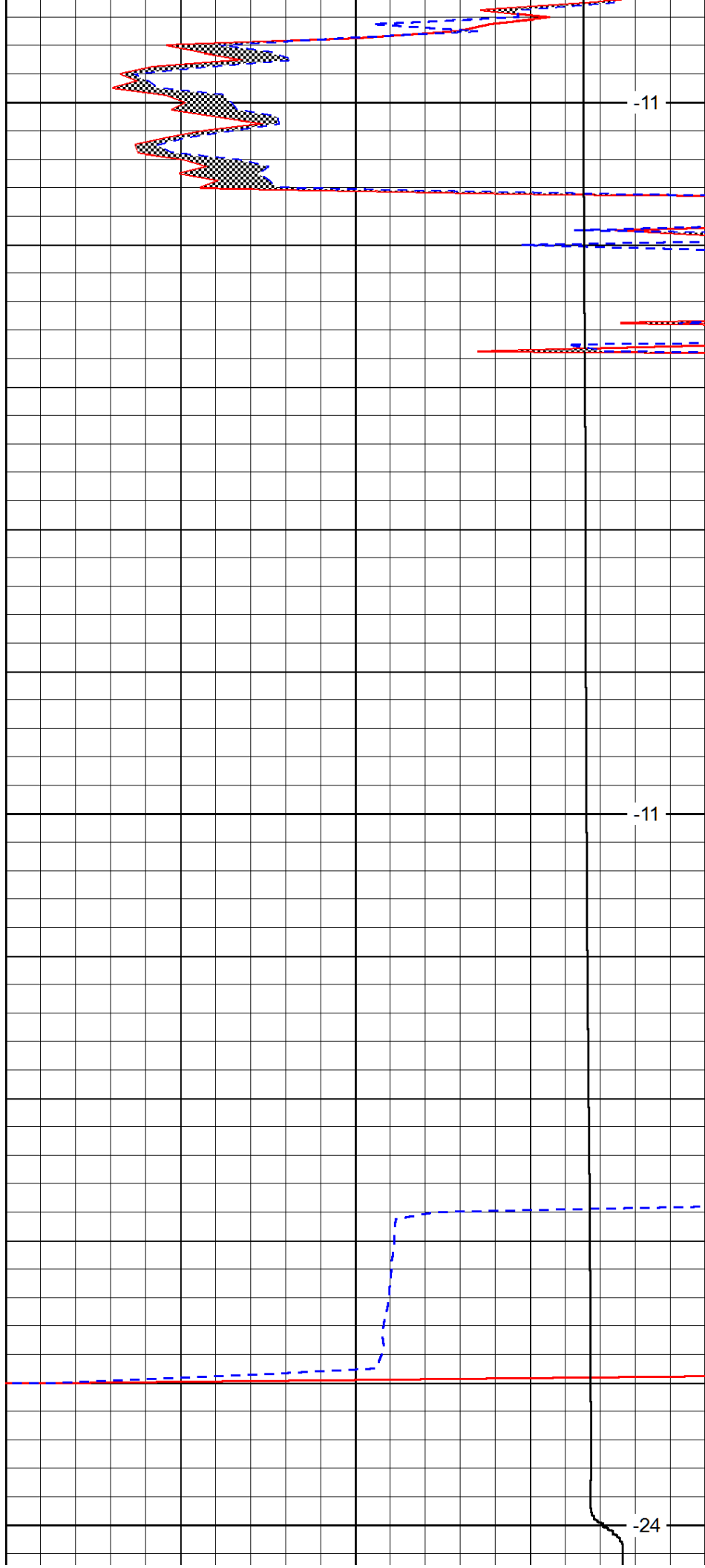
-11



3700

3750

3800



-11

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-24

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