



Pioneer Energy Services

Microresistivity
Log

API No.

15-095-22286-00-00

Company Messenger Petroleum, Inc.

Well Molitor 'G' #1

Field Willowdale

County Kingman State Kansas

Location 330' FNL & 2310' FEL

Sec: 14 Twp: 29S Rge: 9W

Other Services
CNL/CDL
DIL

Elevation

Permanent Datum	Ground Level	Elevation 1700	K.B. 1709
Log Measured From	Kelly Bushing	9 Ft. Above Perm. Datum	D.F. 1700
Drilling Measured From	Kelly Bushing		G.L. 1700

Date 6/2/2014

Run Number One

Depth Driller 4552

Depth Logger 4551

Bottom Logged Interval 4530

Top Log Interval 2350

Casing Driller 8.625 @ 222

Casing Logger 222

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 4000

Density / Viscosity 9.4 56

pH / Fluid Loss 9.5 10.4

Source of Sample Flowline

Rm @ Meas. Temp 0.44 @ 82

Rmf @ Meas. Temp 0.33 @ 82

Rmc @ Meas. Temp 0.59 @ 82

Source of Rmf / Rmc Charts

Rm @ BHT 0.29 @ 124

Operating Rig Time 4 Hours

Max Rec. Temp. F 124

Equipment Number 91

Location Hays

Recorded By D. Schmidt

Witnessed By Jon Messenger

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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

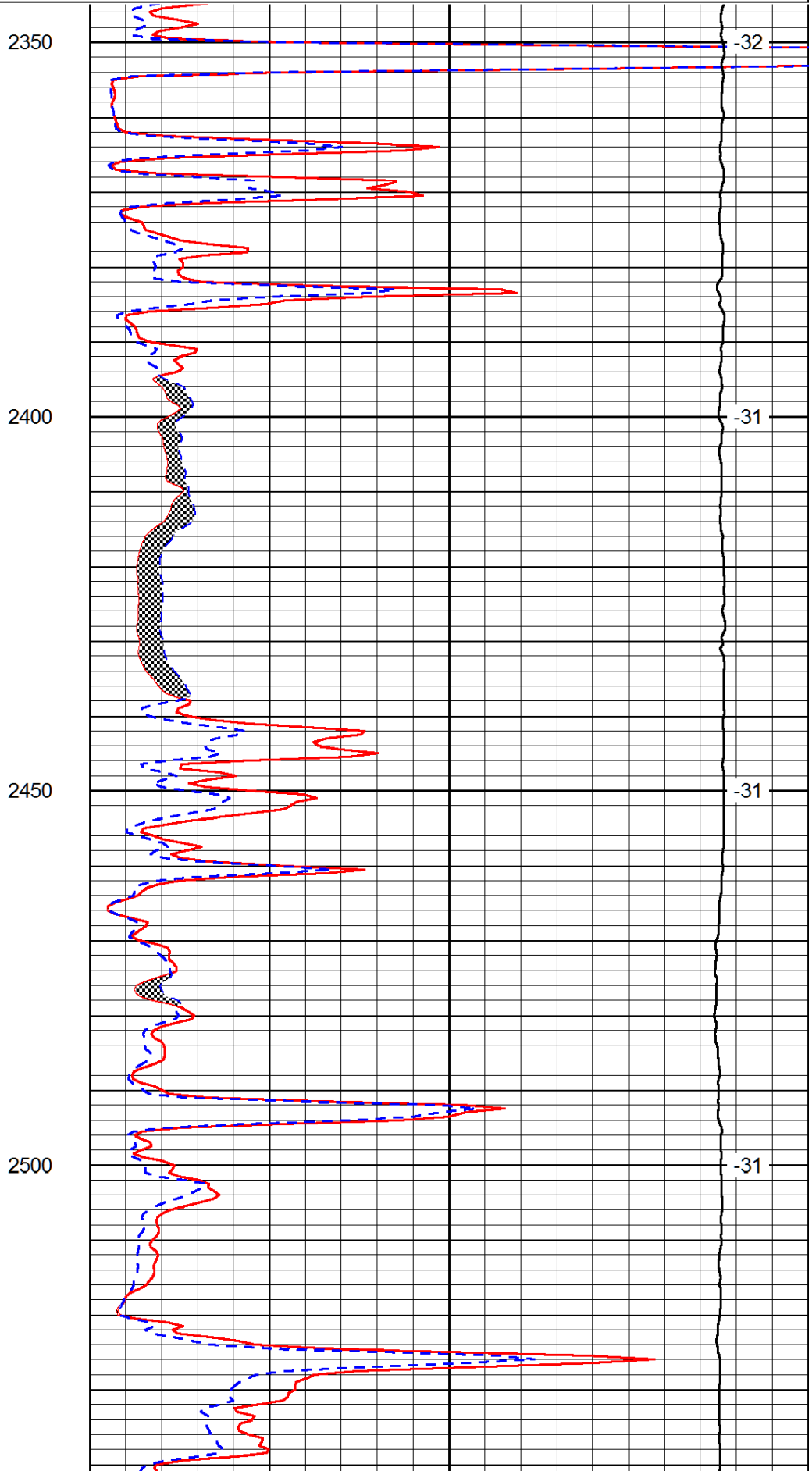
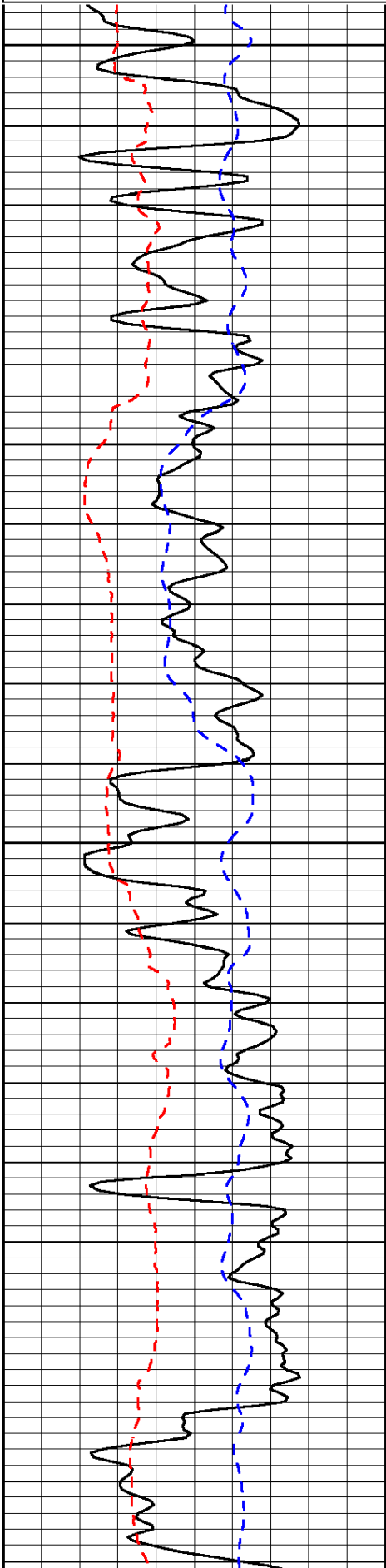
Thank you for using Log-Tech, Inc.
(785) 625-3858

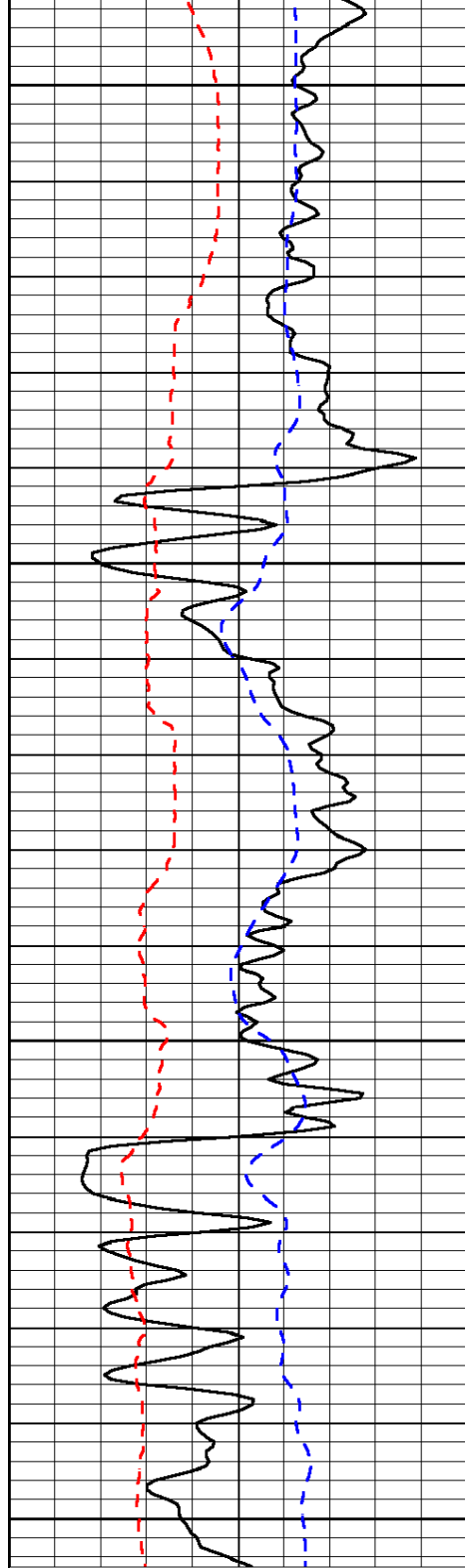
Zenda,
6 North to 80 Rd, 1/2 East,
South into

Database File: messenger_molitor_g_1hd.db
Dataset Pathname: dil/mestkml
Presentation Format: micro
Dataset Creation: Tue Jun 03 03:36:28 2014
Charted by: Depth in Feet scaled 1:240

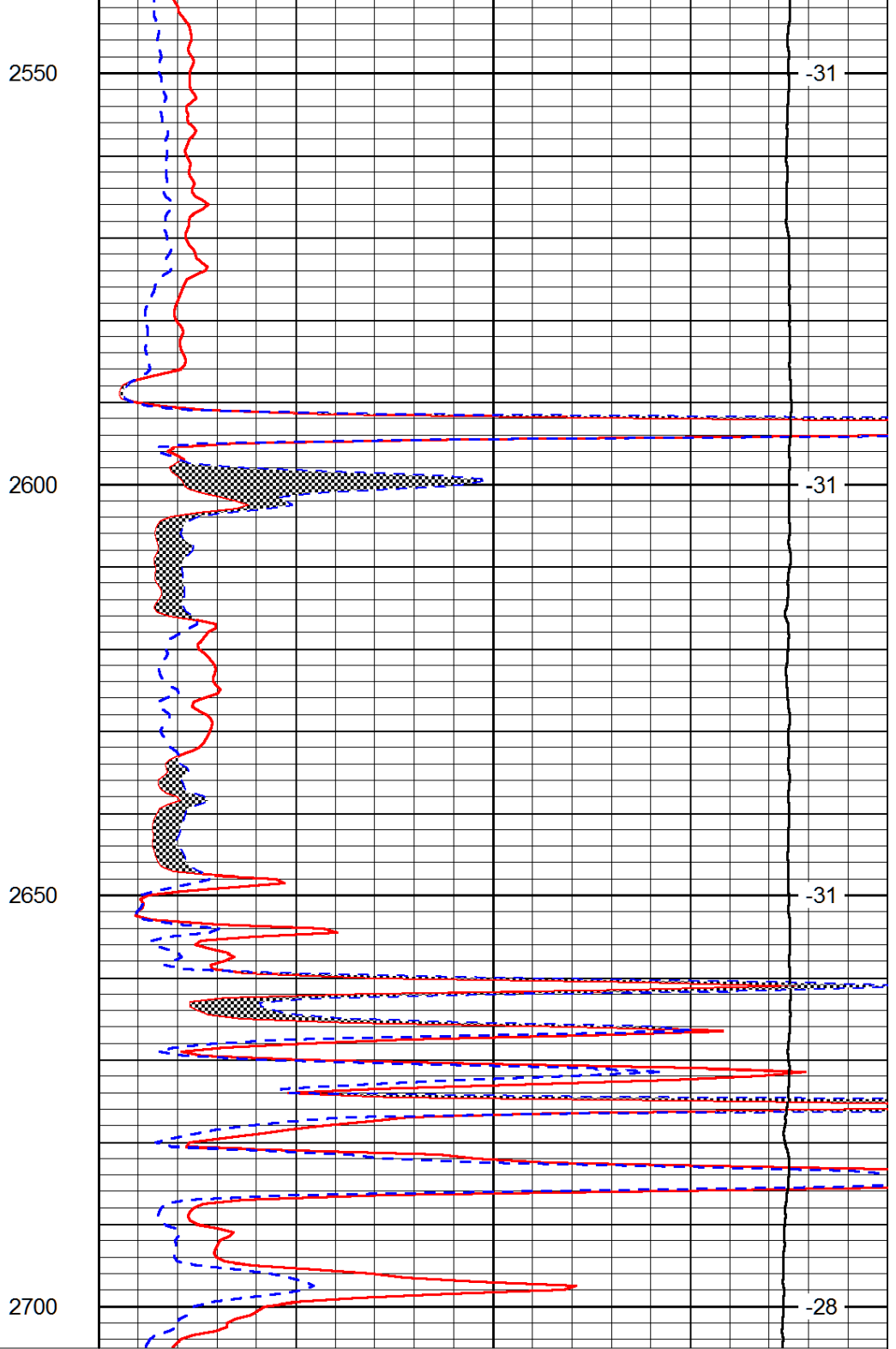
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6	MCAL (GAPI)	16
2.875	Mud Cake (GAPI)	7.875
-200	SP (mV)	0

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





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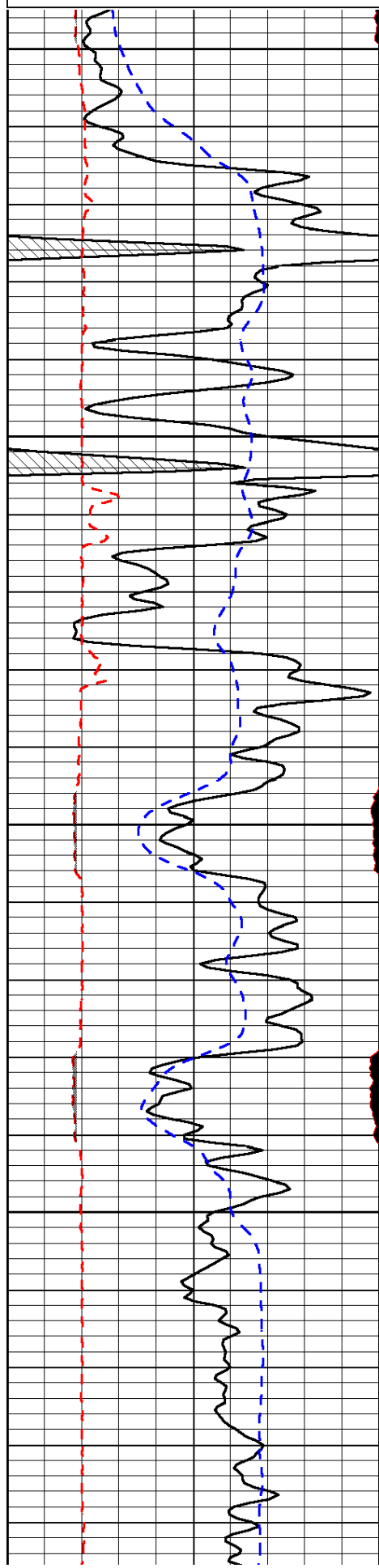
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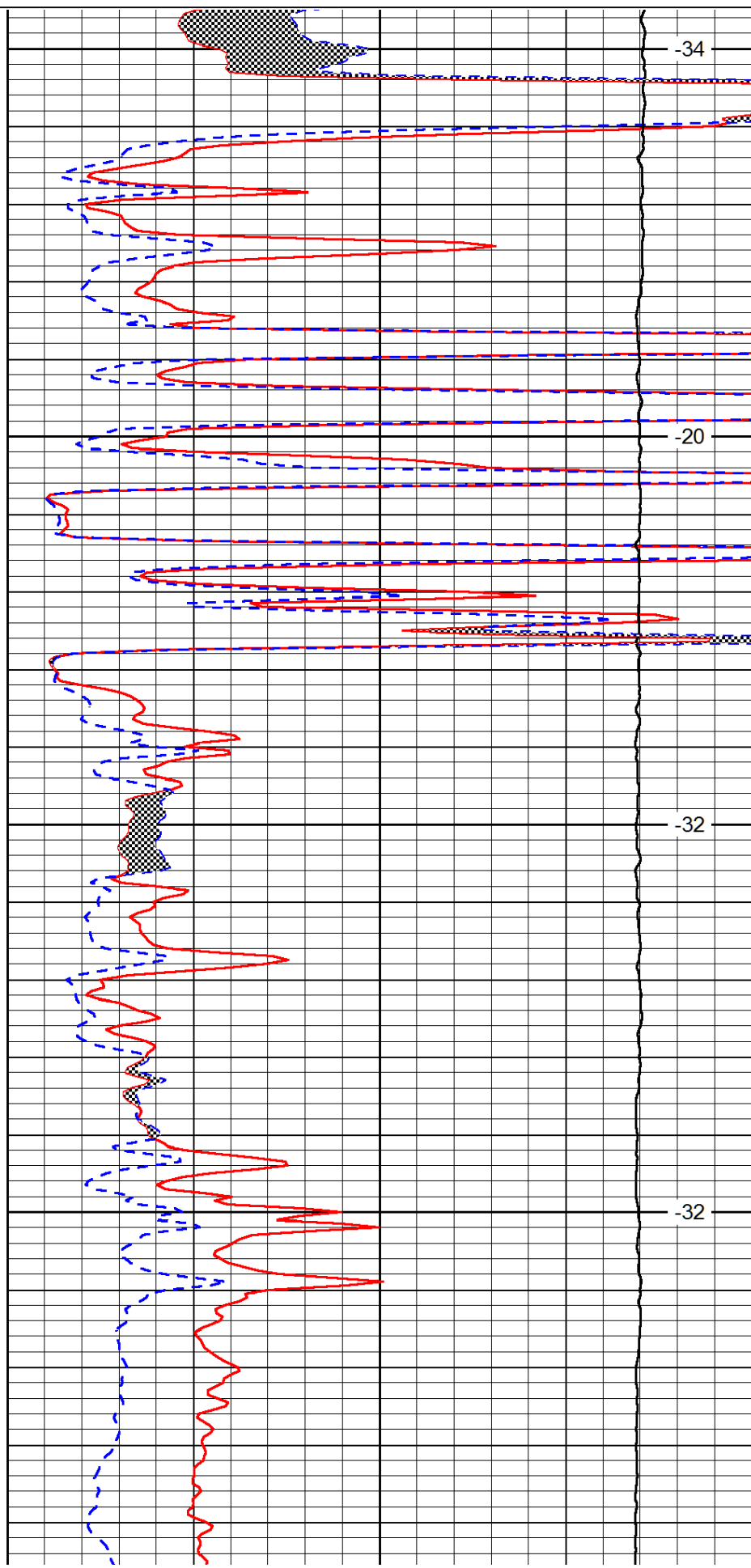


3300

3350

3400

3450

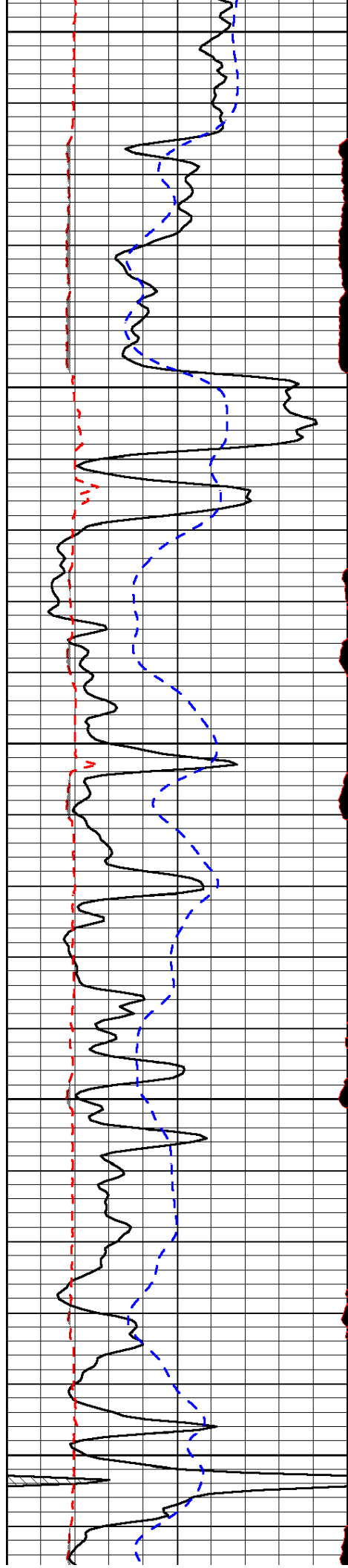


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-20

-32

-32



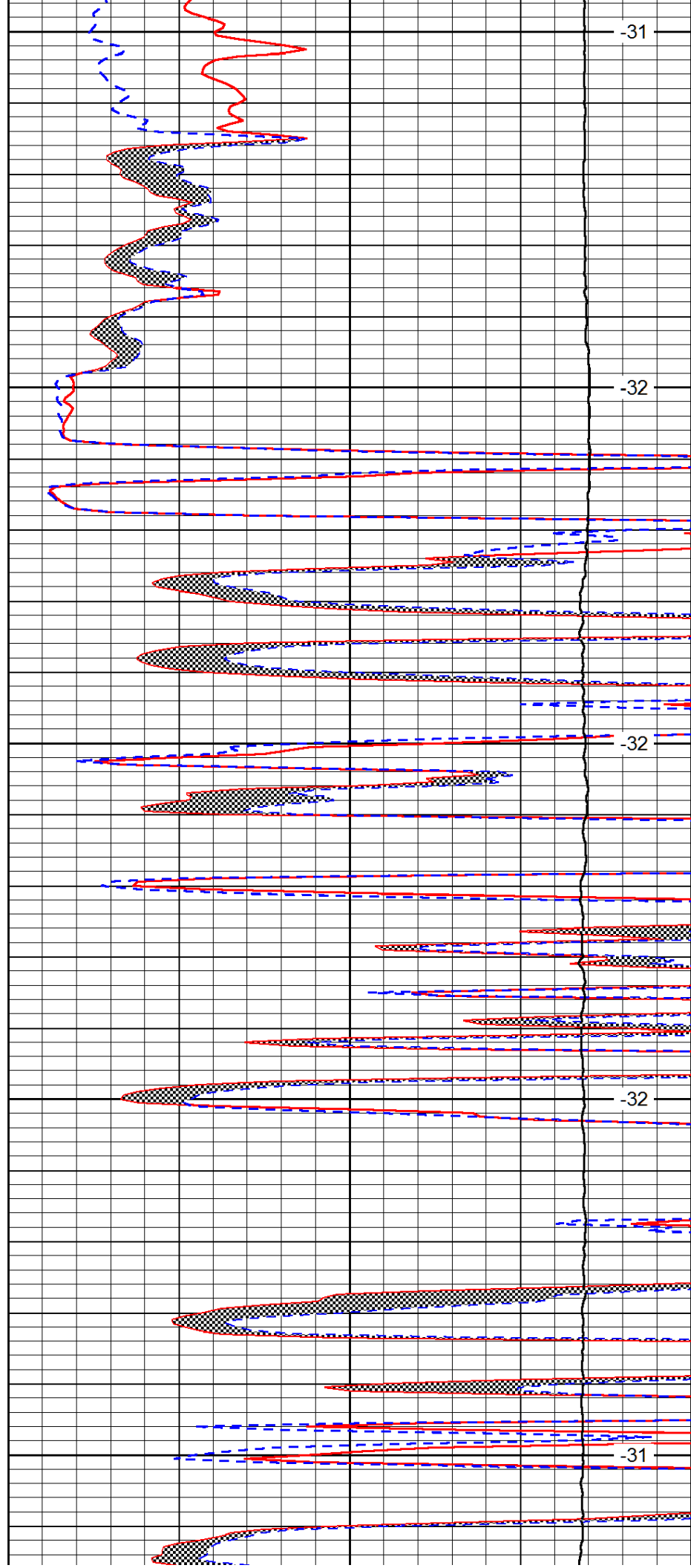
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3600

3650

3700



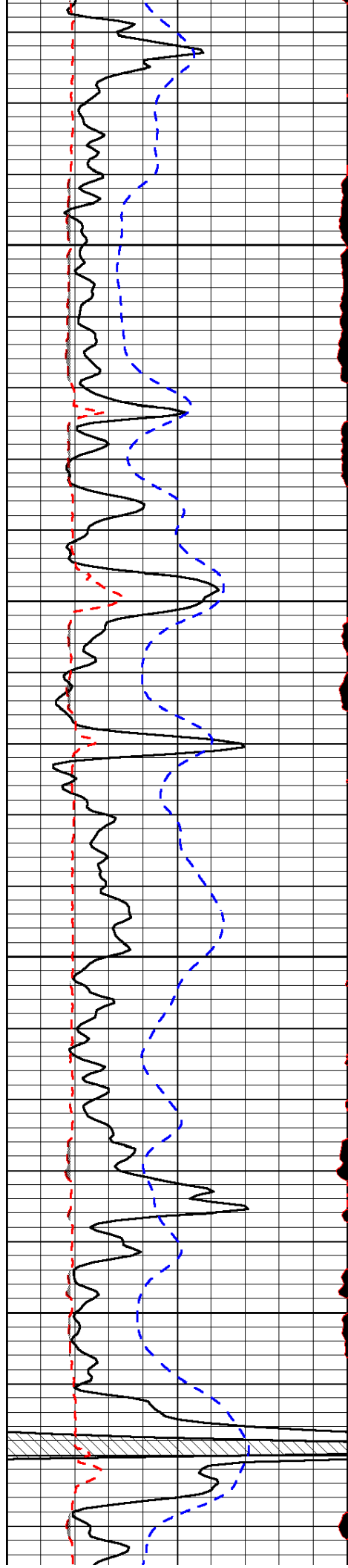
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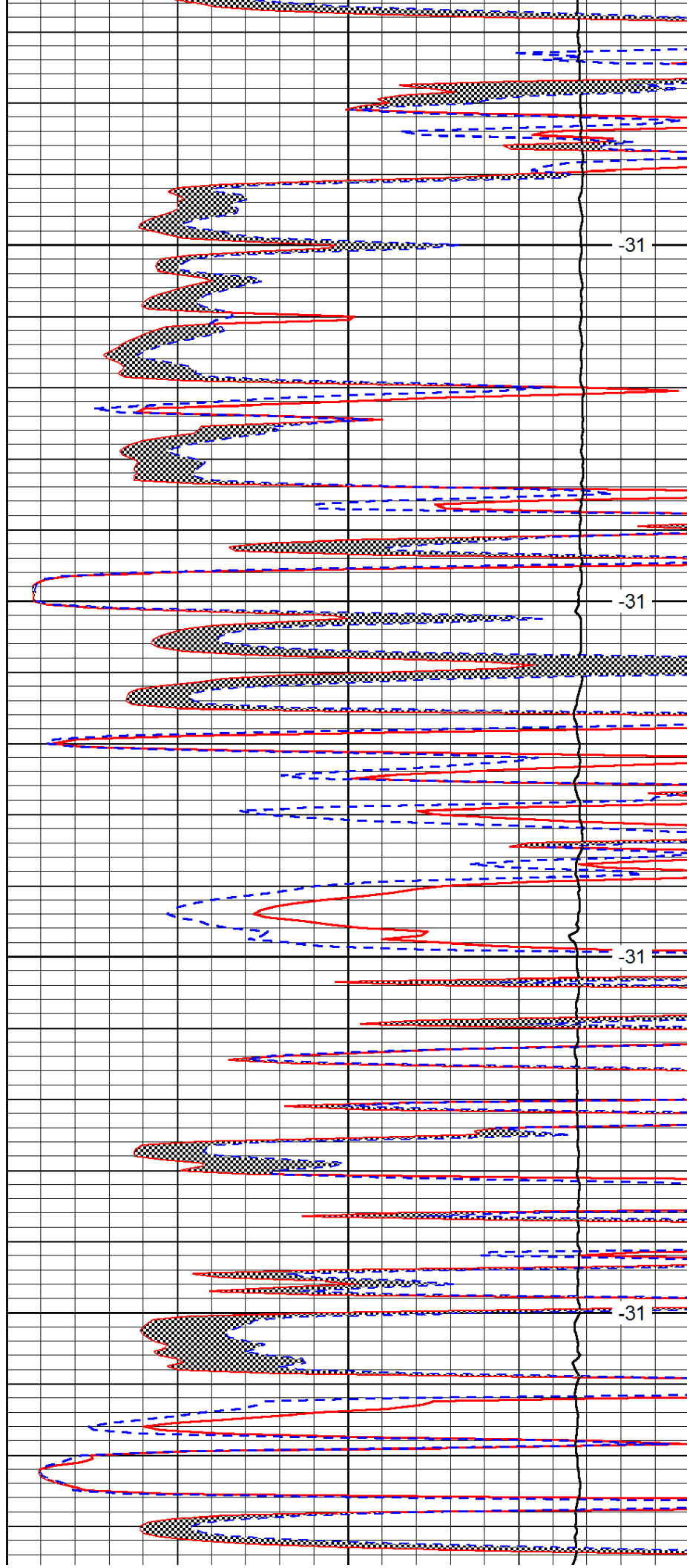


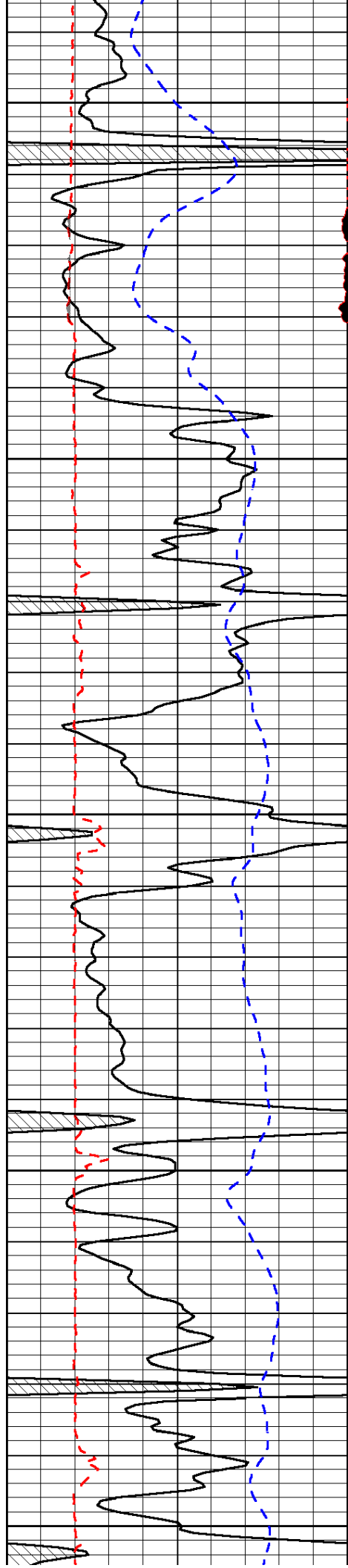
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3850

3900





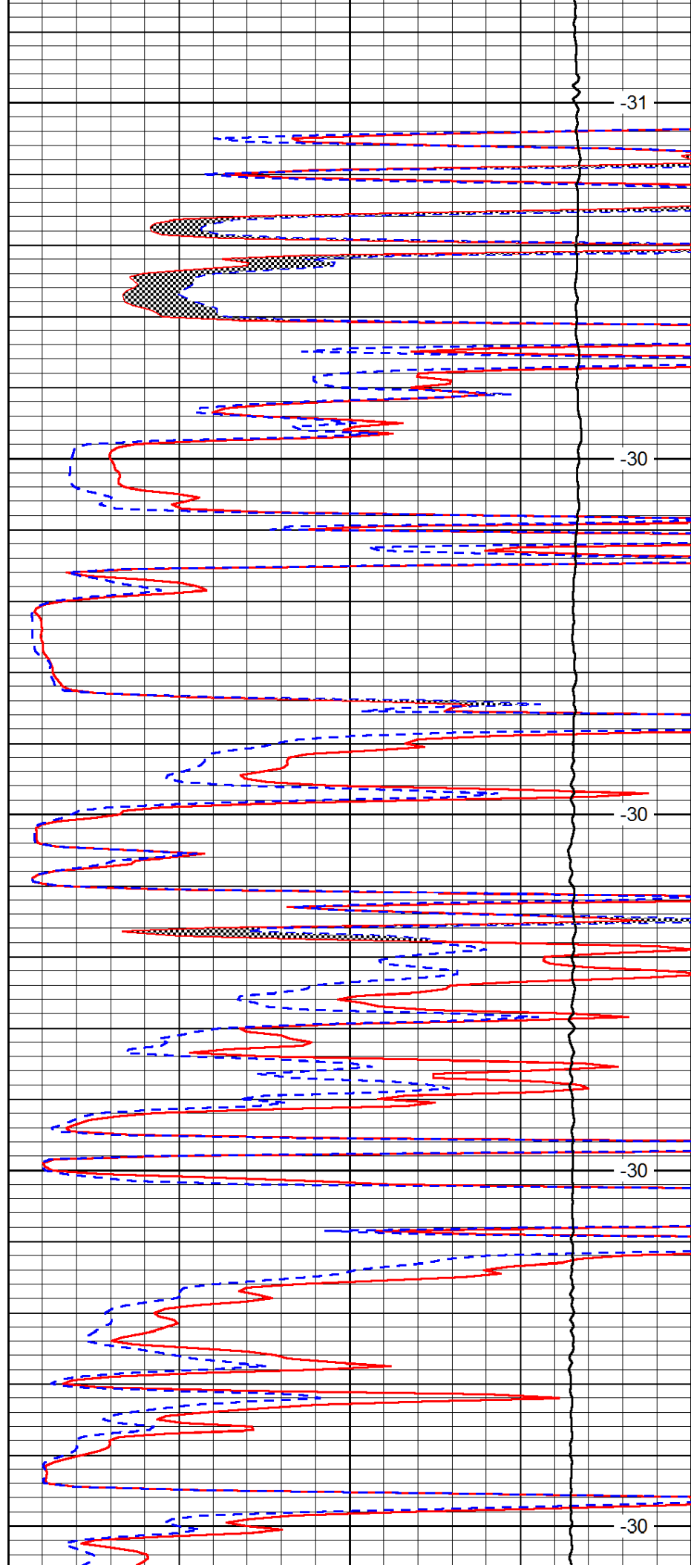
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4050

4100

4150



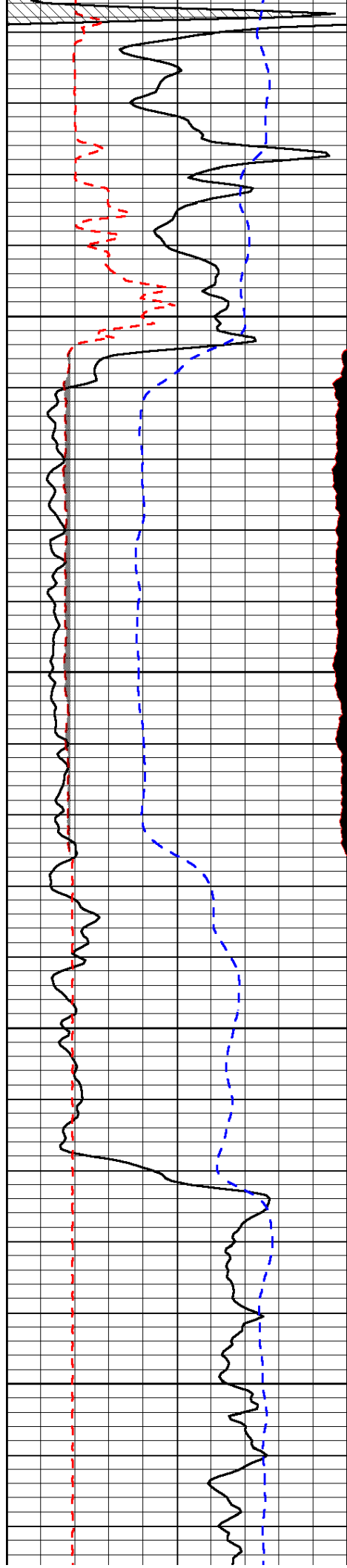
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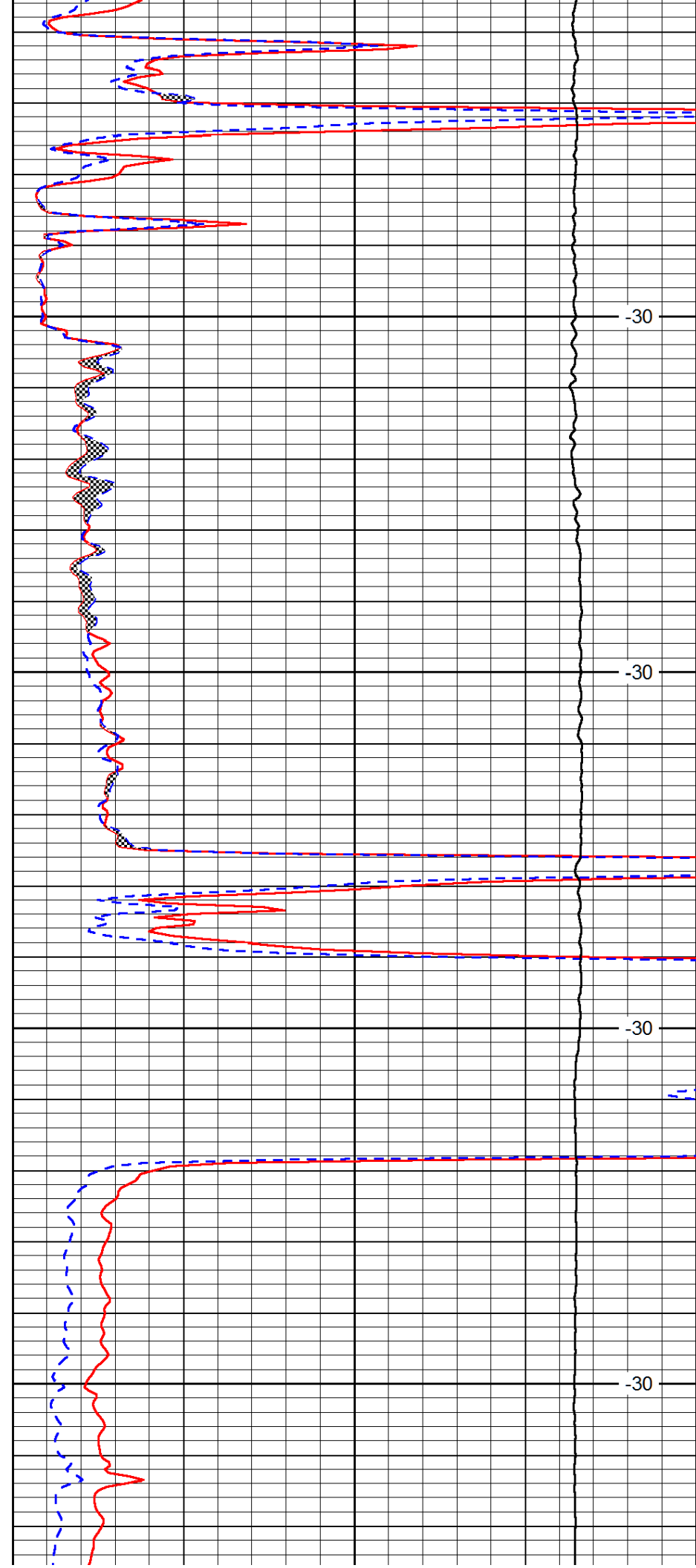


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4250

4300

4350



-30

-30

-30

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