



Microresistivity Log

Pioneer Energy Services

API No.

15-009-26092-00-00

Company LB Exploration, Inc.

Well Otte #1

Field Wildcat

County Barton

State

Kansas

Location

SE NW/NE NE
630' FNL & 690' FEL

Other Services
CNL/CDL
DIL/BHCS

Sec: 15

Twp: 19S

Rge: 14W

Elevation

Permanent Datum Ground Level Elevation 1876
Log Measured From Kelly Bushing 13 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Date 3/24/2015

Run Number Two

Depth Driller 3625

Depth Logger 3620

Bottom Logged Interval 3619

Top Log Interval 1700

Casing Driller 8.625 @ 866

Casing Logger 863

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 7000

Density / Viscosity 9.2 68

pH / Fluid Loss 8.0 10.4

Source of Sample Flowline

Rm @ Meas. Temp 0.46 @ 73

Rmf @ Meas. Temp 0.35 @ 73

Rmc @ Meas. Temp 0.62 @ 73

Source of Rmf / Rmc Charts

Rm @ BHT 0.30 @ 112

Operating Rig Time 5 Hours

Max Rec. Temp. F 112

Equipment Number 15

Location Hays

Recorded By D.Kerr

Witnessed By Steve Petermann

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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.

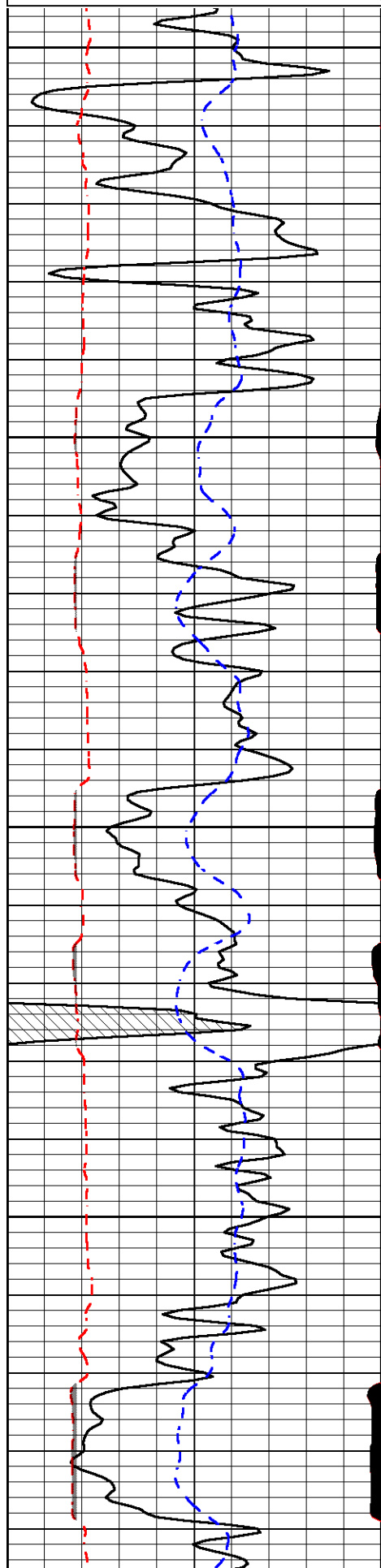
Comments

Thank you for using Pioneer Energy Services
785.625.3858

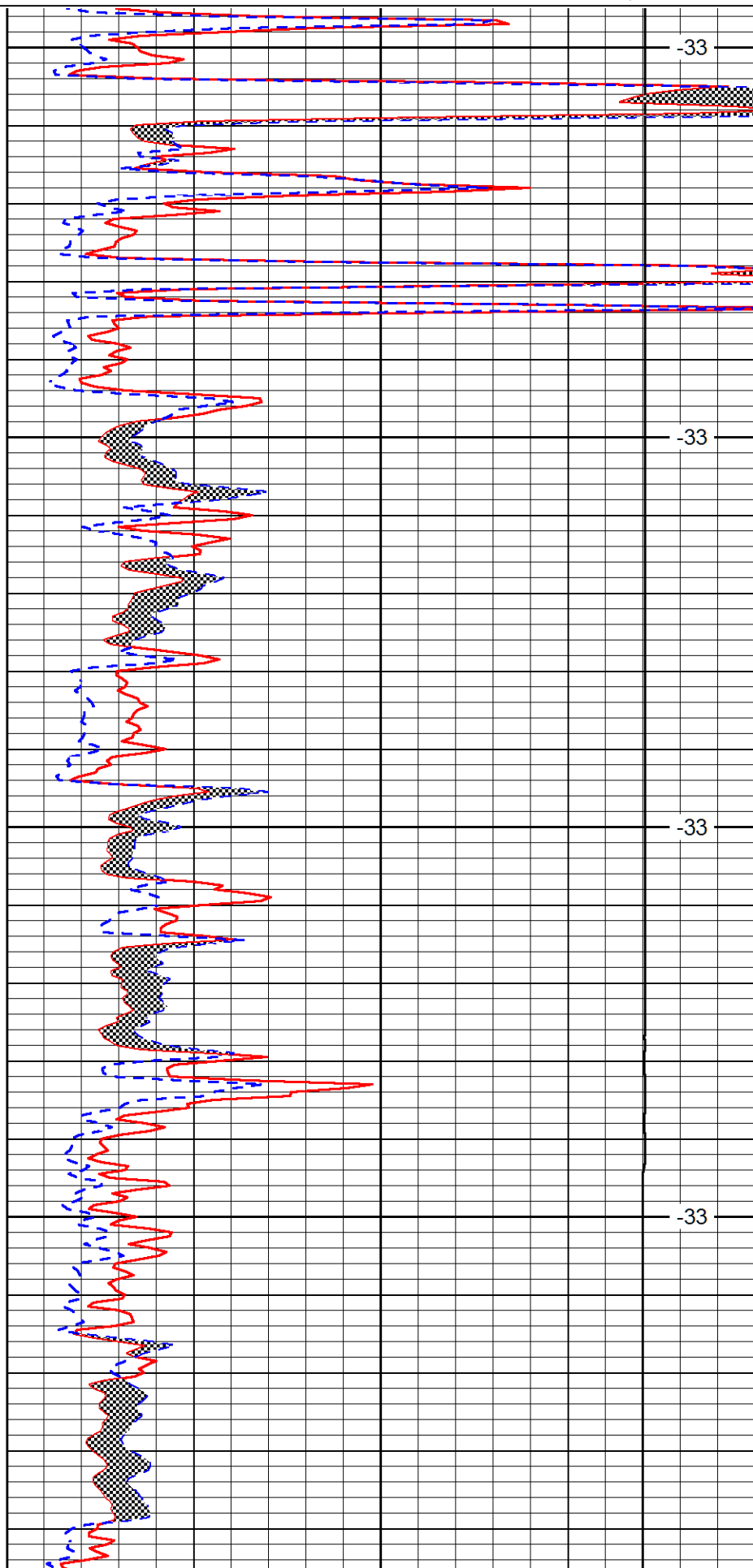
Great Bend KS, West to NW 40th Ave,
1/2 North, West Into

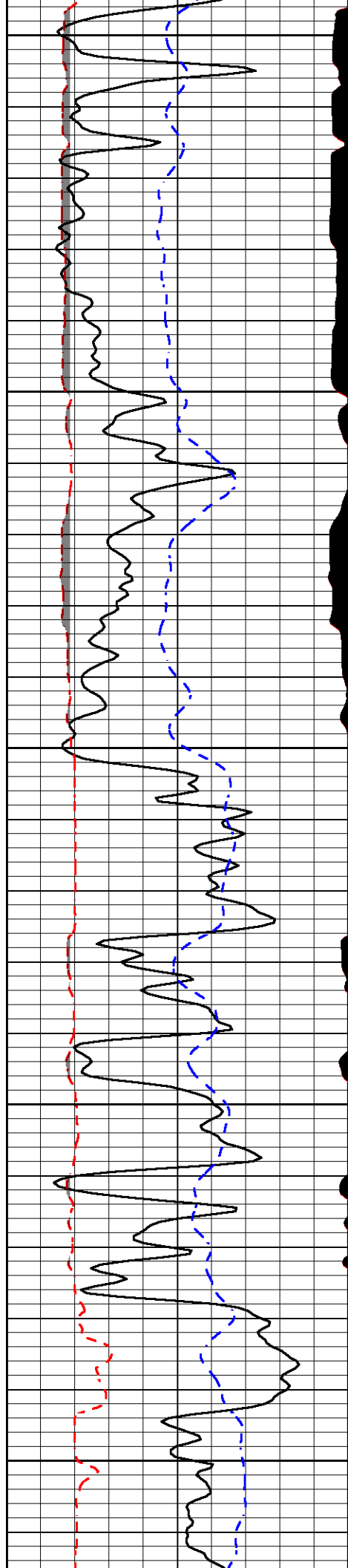
Database File lbexp_otte_1hd.db
Dataset Pathname DIL/lbstk
Presentation Format micro
Dataset Creation Tue Mar 24 07:55:12 2015
Charted by Depth in Feet scaled 1:240

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





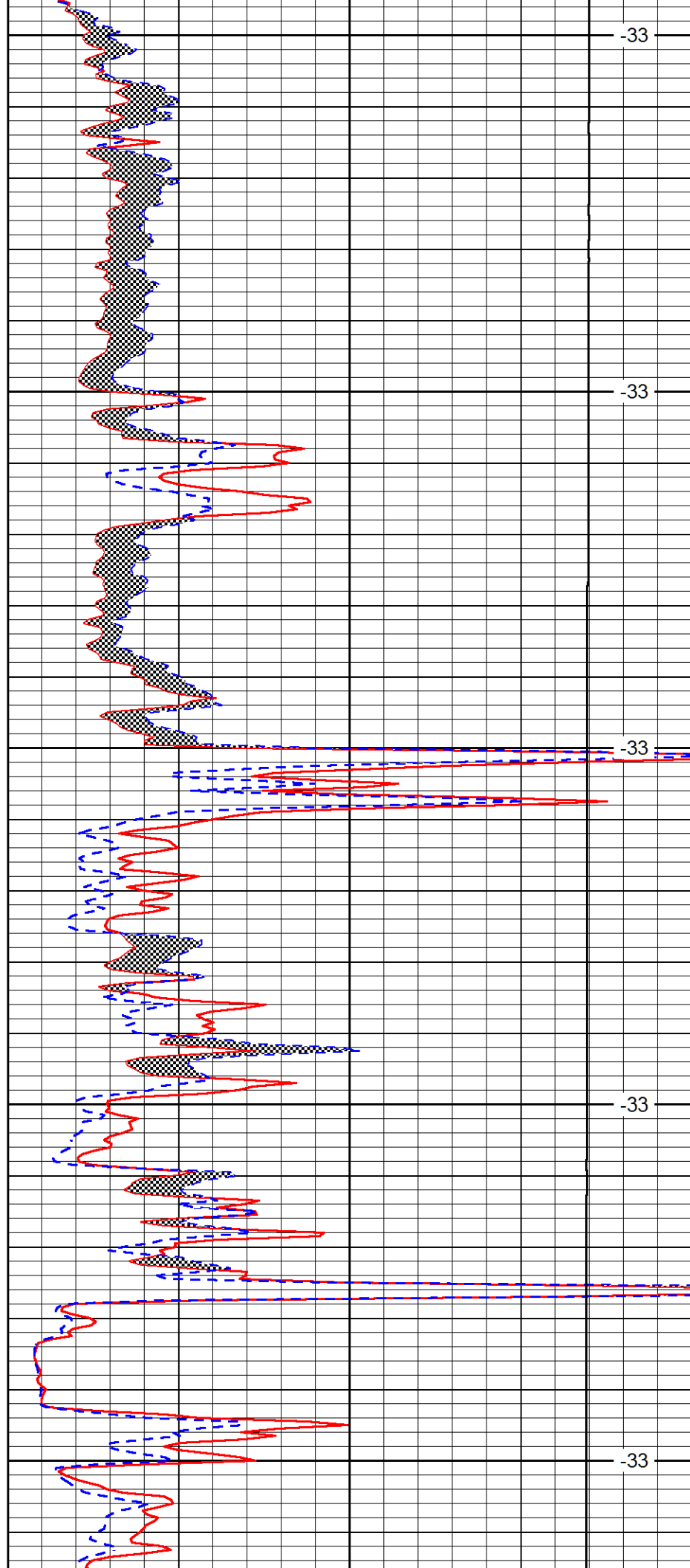
1900

1950

2000

2050

2100



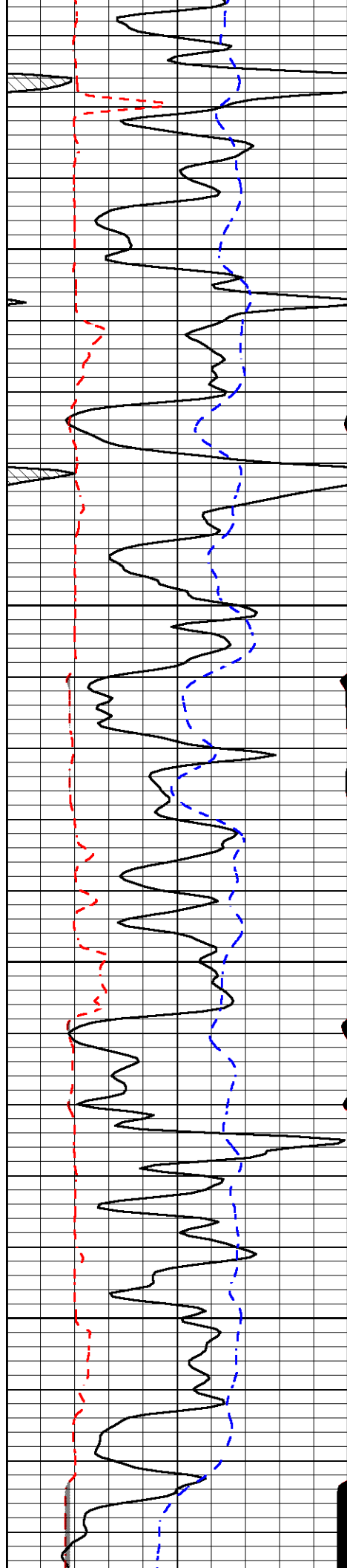
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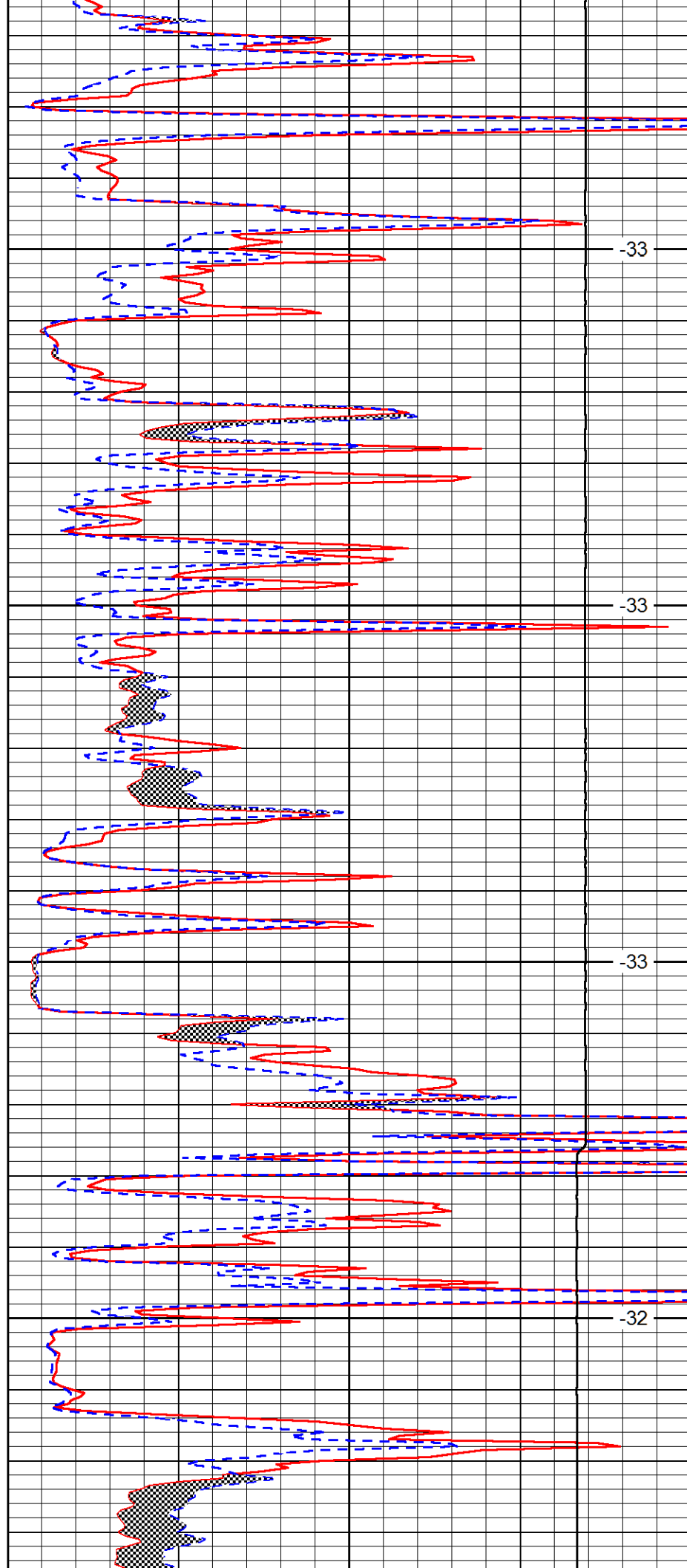


2150

2200

2250

2300

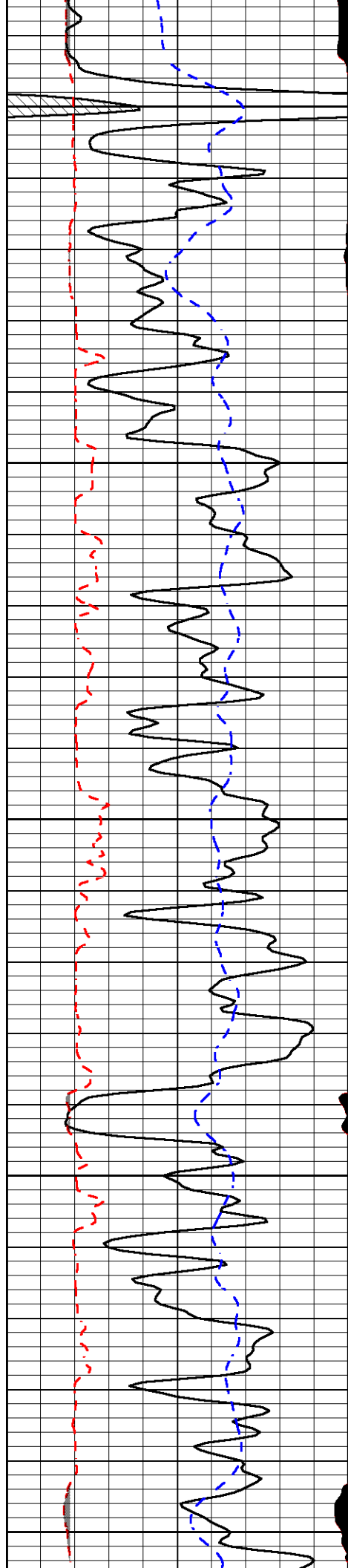


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-32



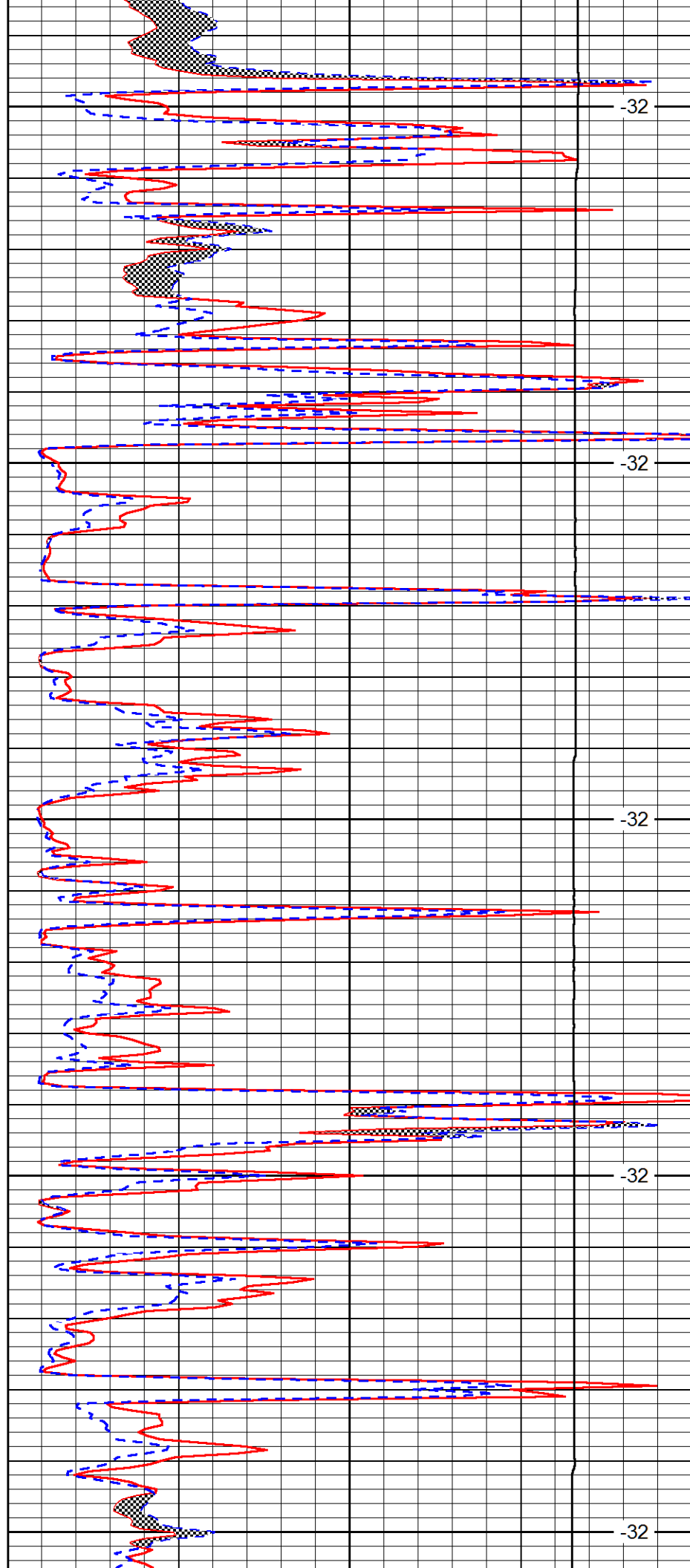
2350

2400

2450

2500

2550



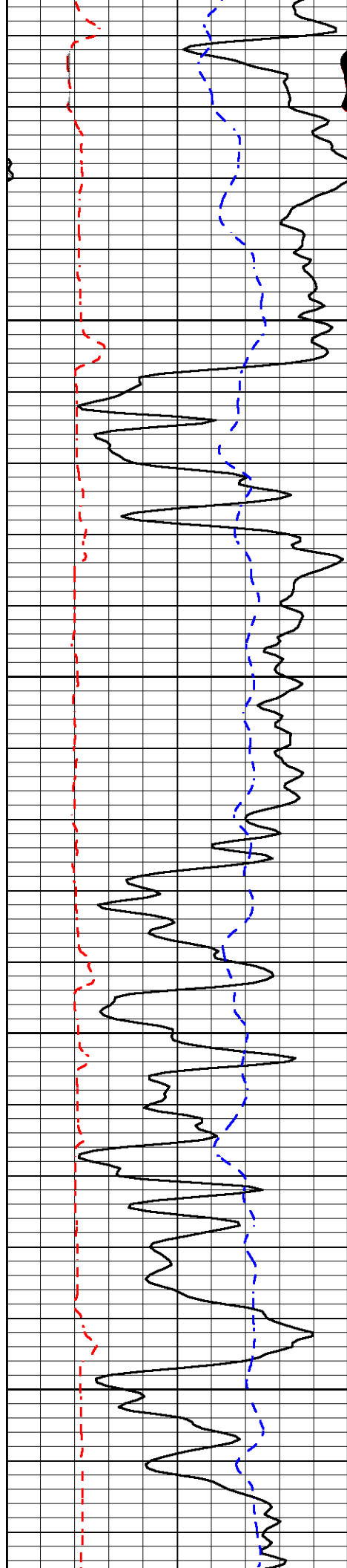
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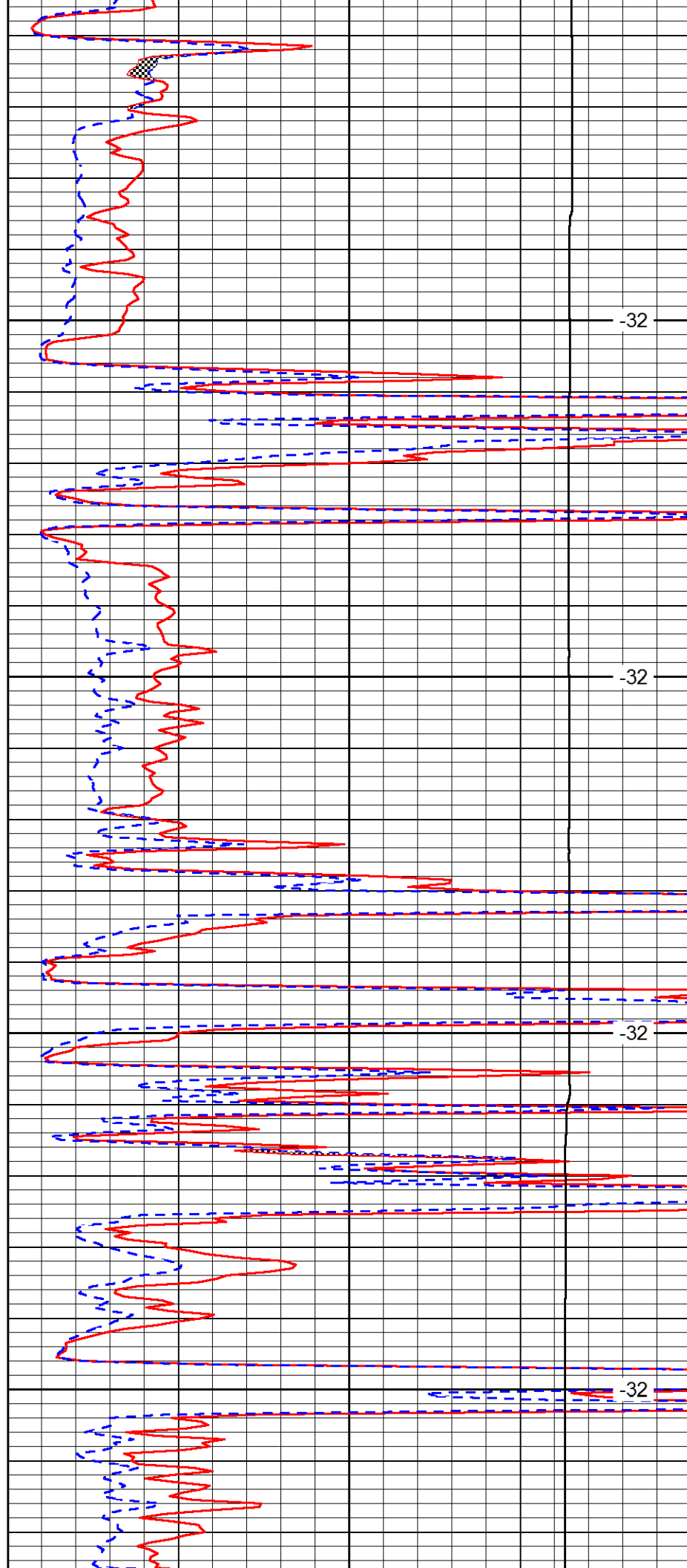


2600

2650

2700

2750

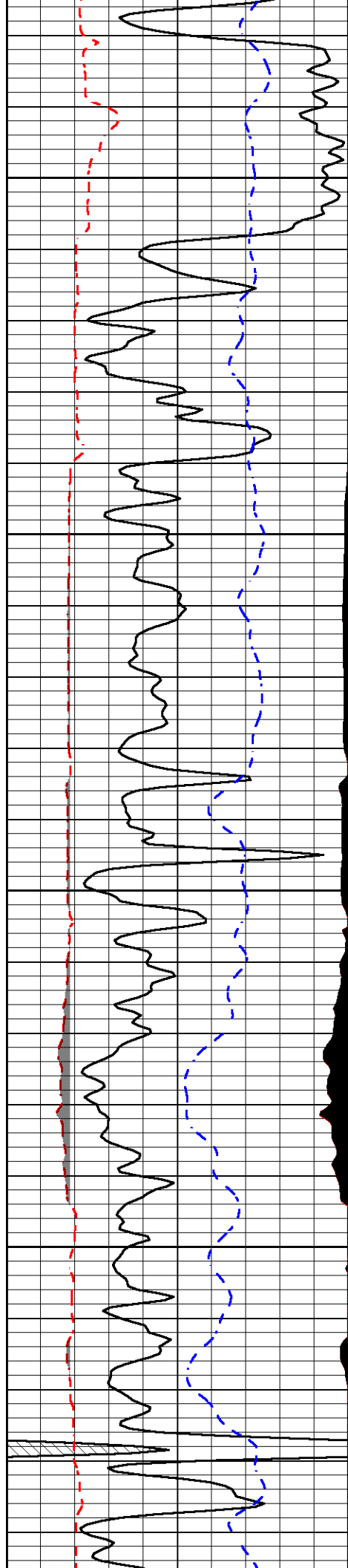


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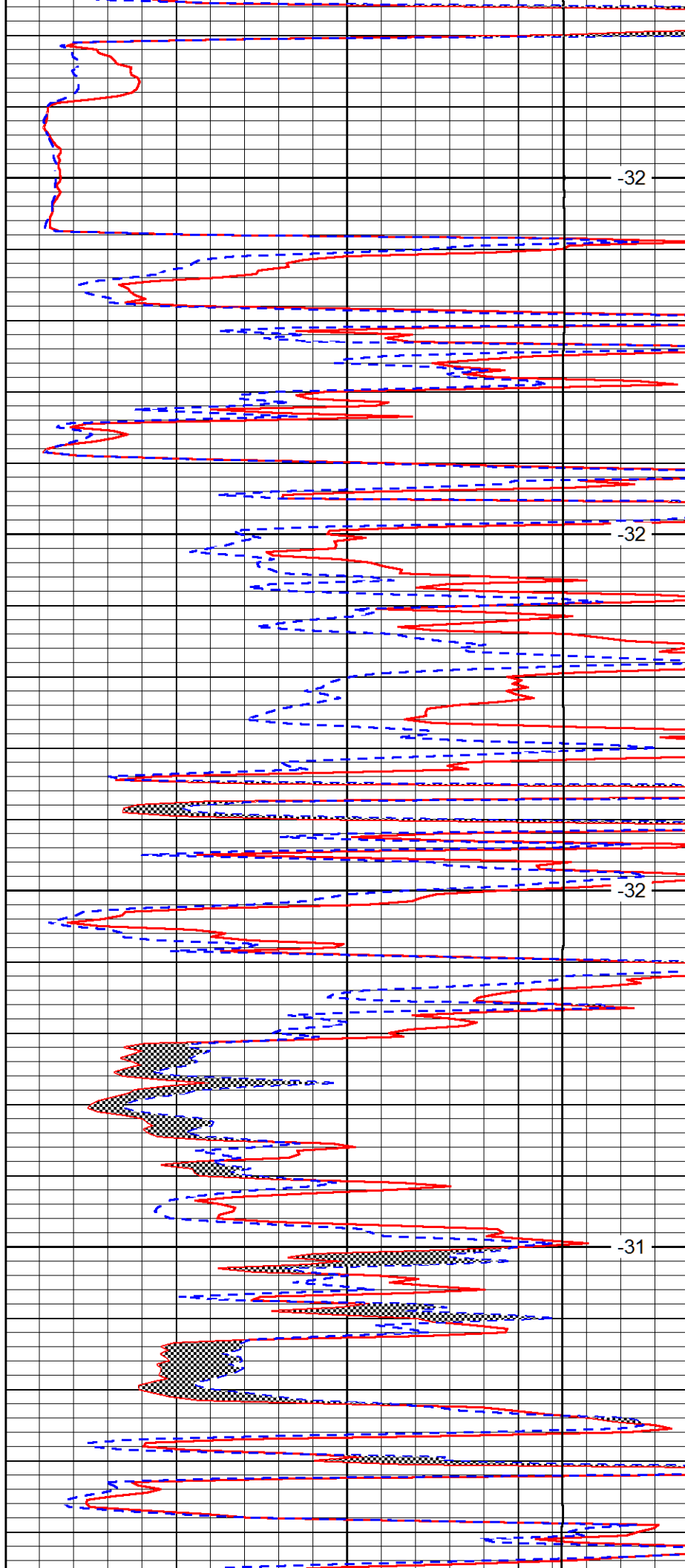


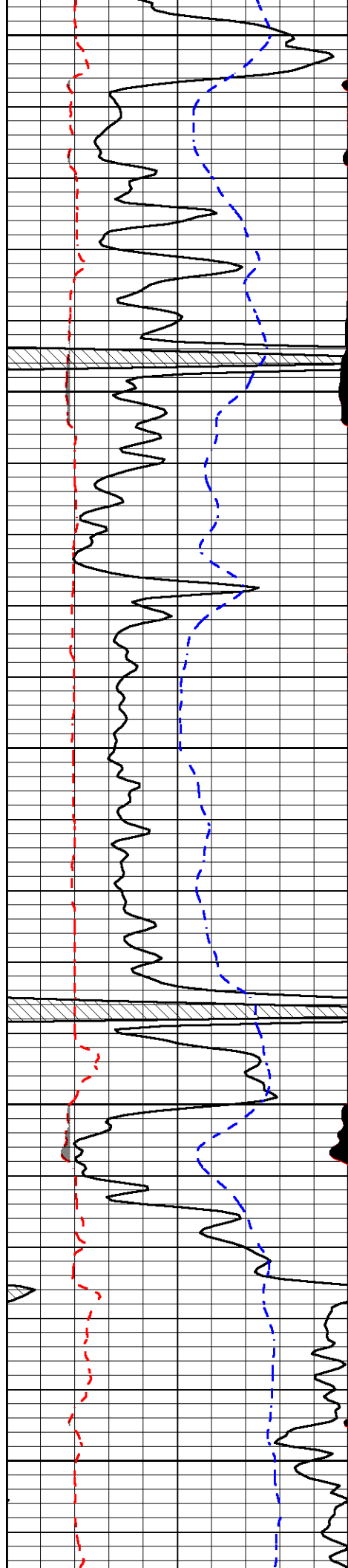
2800

2850

2900

2950





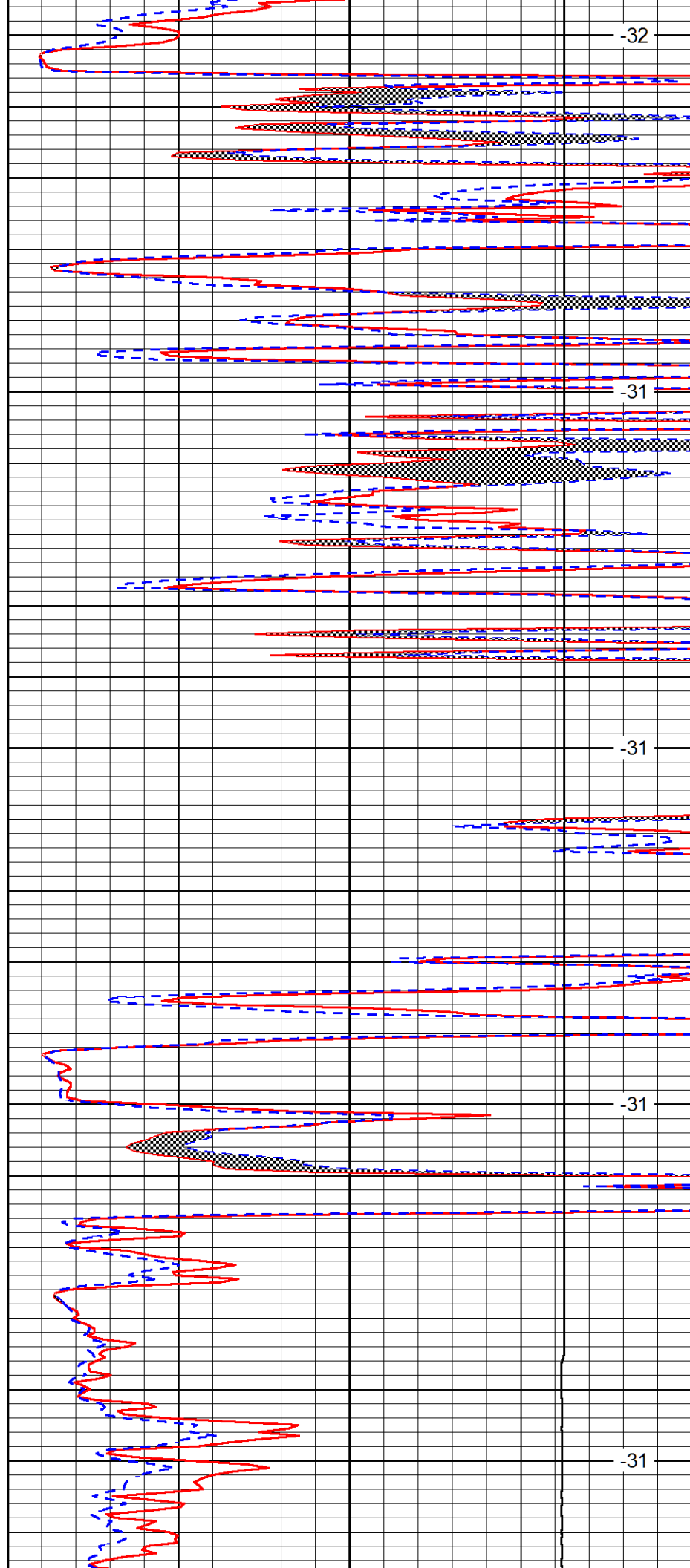
3000

3050

3100

3150

3200



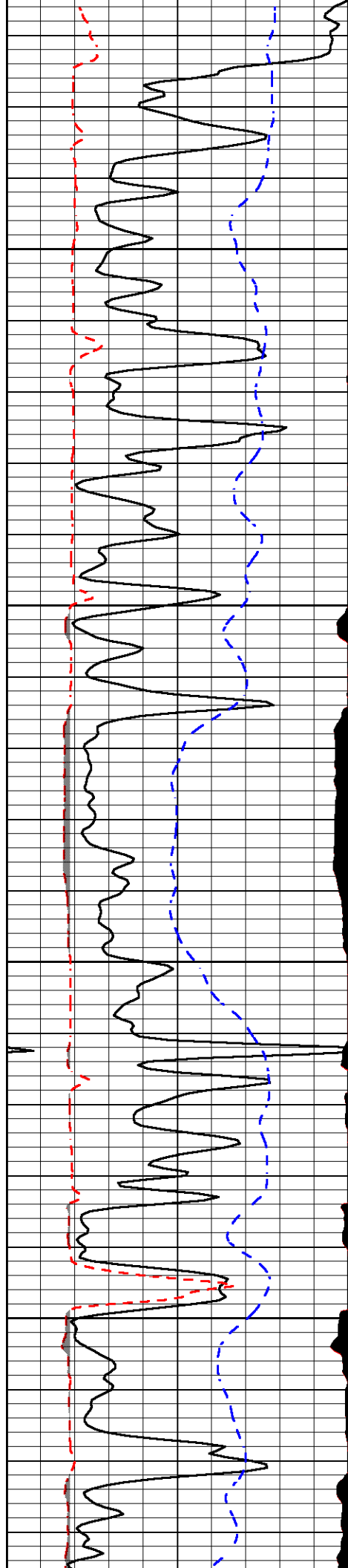
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3250

3300

3350

3400

