



Microresistivity Log

Pioneer Energy Services

API No.

15-023-21391-00-00

Company Murfin Drilling Company, Inc.

Well Jones B #3-9

Field Jones Canyon Southeast

County Cheyenne State Kansas

Location

660' FNL & 1980' FWL

Sec: 9

Twp: 1S

Rge: 37W

Other Services
CNL/CDL
DIL/BHCS

Permanent Datum

Ground Level

Elevation 3202

Log Measured From Kelly Bushing 10 Ft. Above Perm. Datum

K.B. 3212
D.F.
G.L. 3202

Drilling Measured From

Kelly Bushing

Elevation 3202

K.B. 3212
D.F.
G.L. 3202

Date

05/22/2014

Run Number

Two

Depth Driller

4740

Depth Logger

4737

Bottom Logged Interval

4736

Top Log Interval

3500

Casing Driller

8.625 @ 226

Casing Logger

223

Bit Size

7.825

Type Fluid in Hole

Chemical

Salinity, ppm CL

1400

Density / Viscosity

9.1 76

pH / Fluid Loss

11.0 6.0

Source of Sample

Flowline

Rm @ Meas. Temp

0.50 @ 80

Rmf @ Meas. Temp

0.38 @ 80

Rmc @ Meas. Temp

0.68 @ 80

Source of Rmf / Rmc

Charts

Rm @ BHT

0.32 @ 125

Operating Rig Time

6 Hours

Max Rec. Temp. F

125

Equipment Number

91

Location

Hays

Recorded By

D. Schmidt

Witnessed By

Ken Wallace

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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.

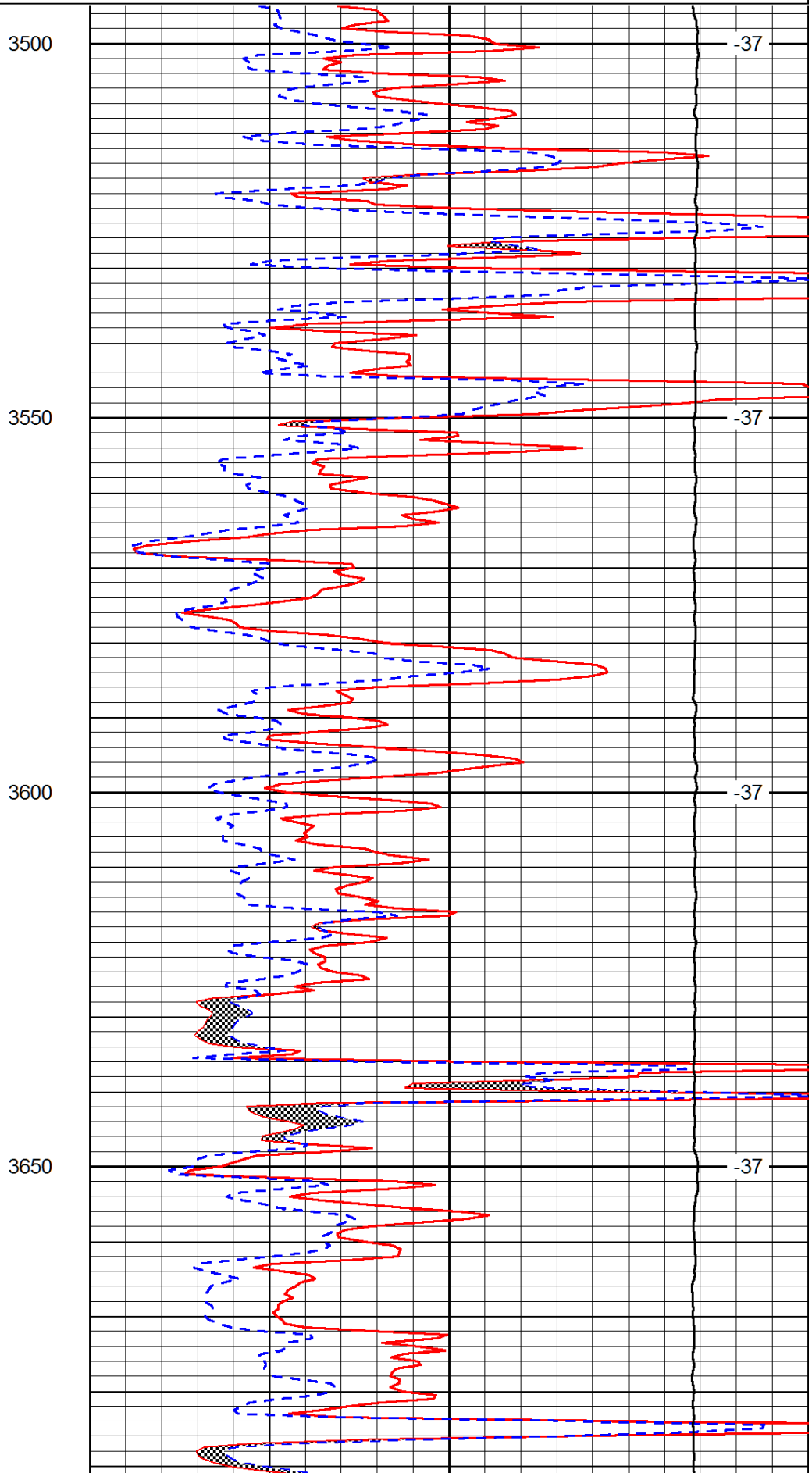
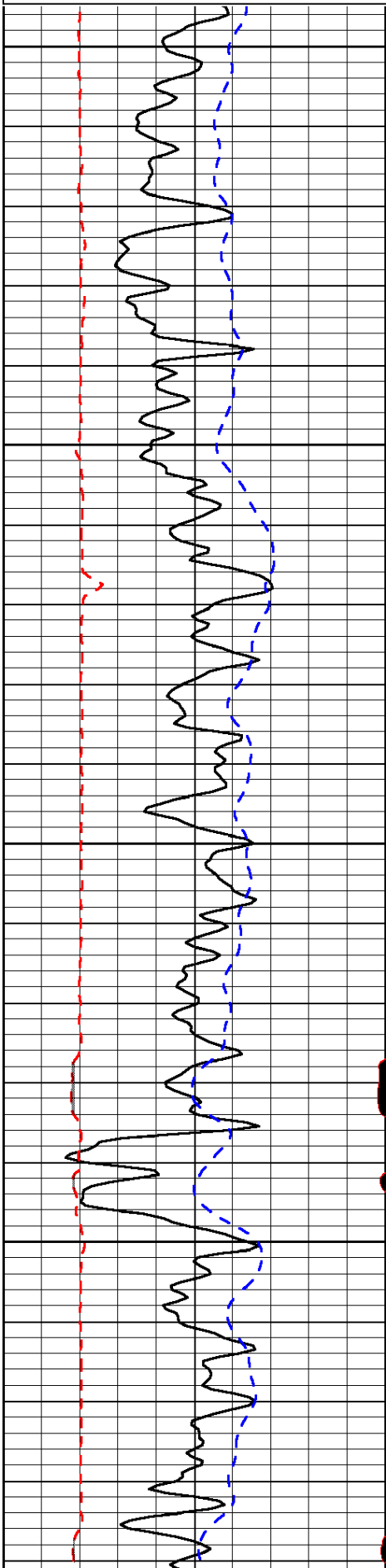
Comments

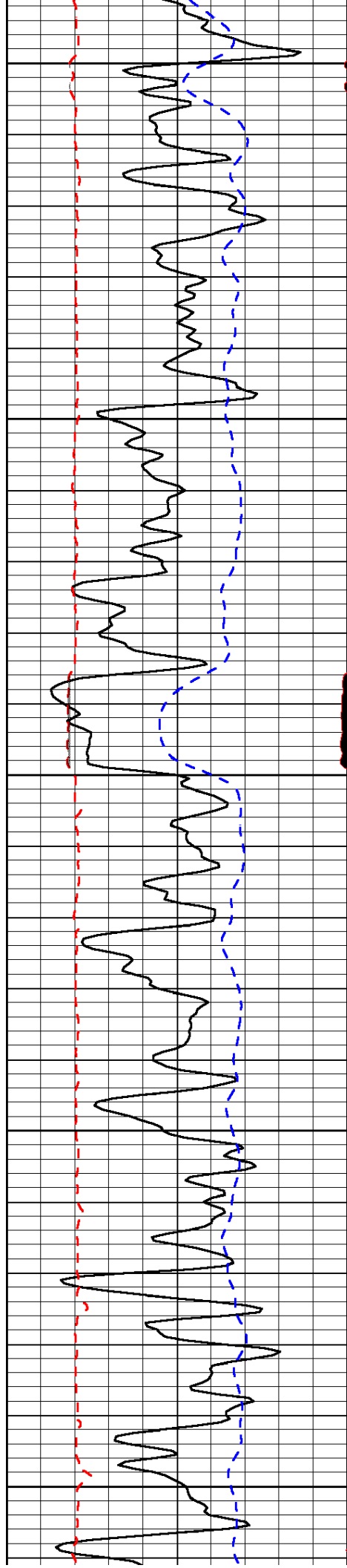
Thank you for using Log-Tech, Inc.
(785) 625-3858
Bird City,
North to EE Rd,
3 East road curves South,
1 South, East into

Database File: murfin_052214hd.db
Dataset Pathname: dil/mrfstck
Presentation Format: micro
Dataset Creation: Thu May 22 19:42:32 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





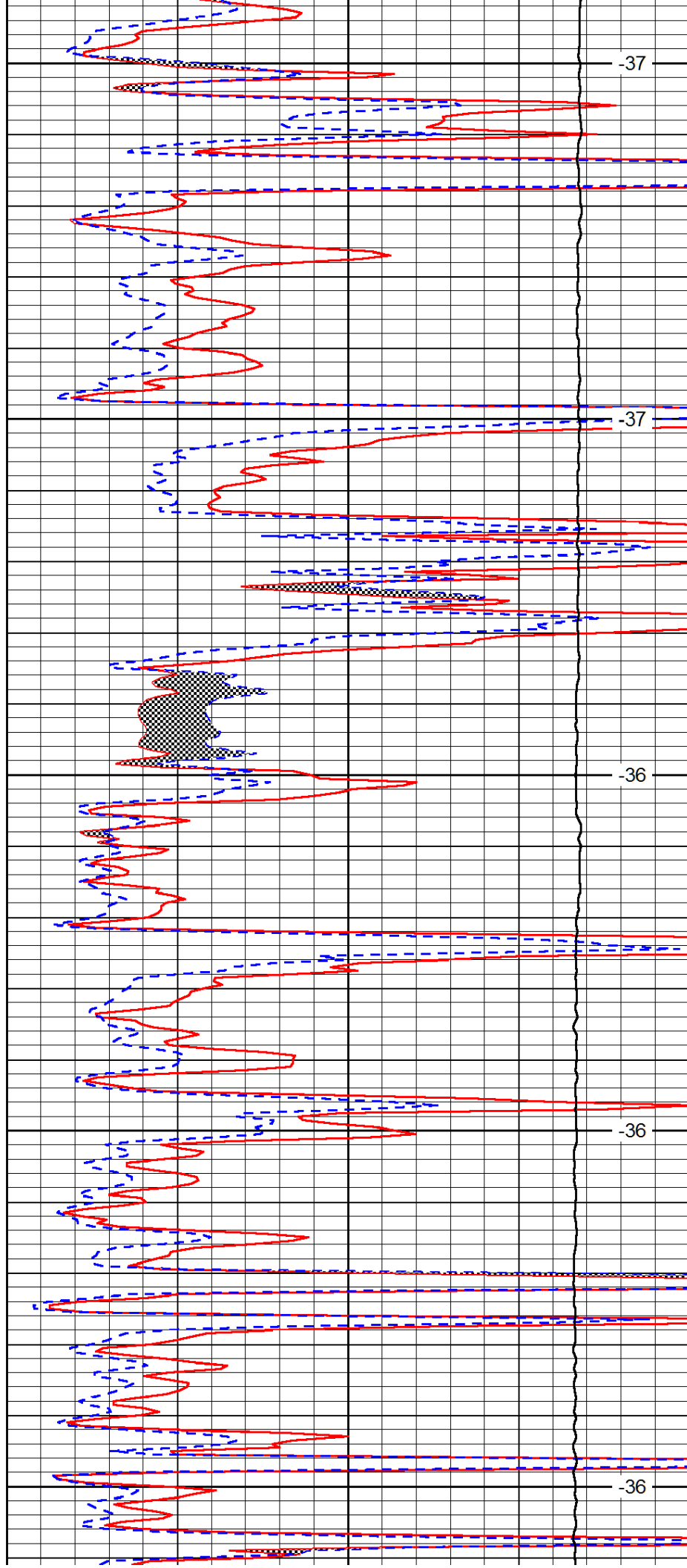
3700

3750

3800

3850

3900



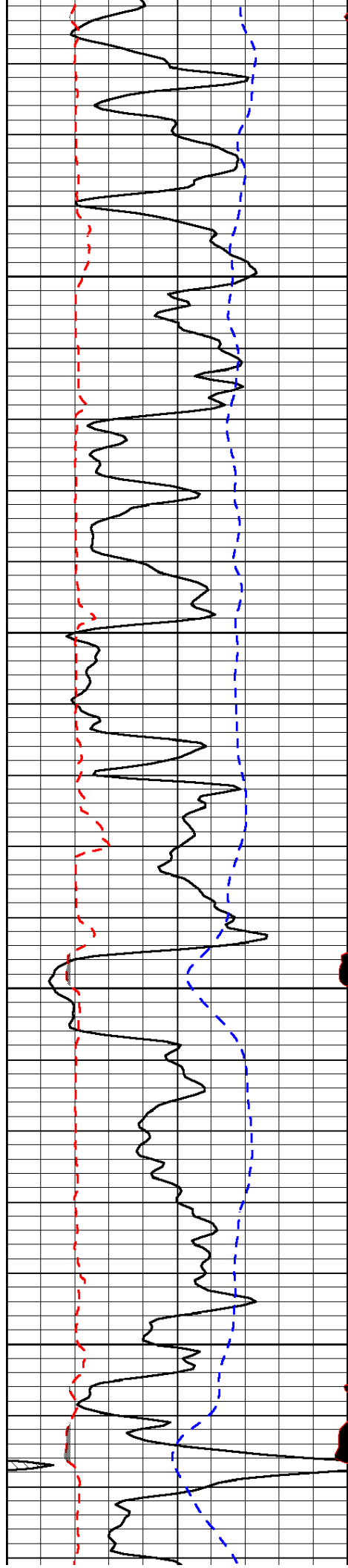
-37

-37

-36

-36

-36

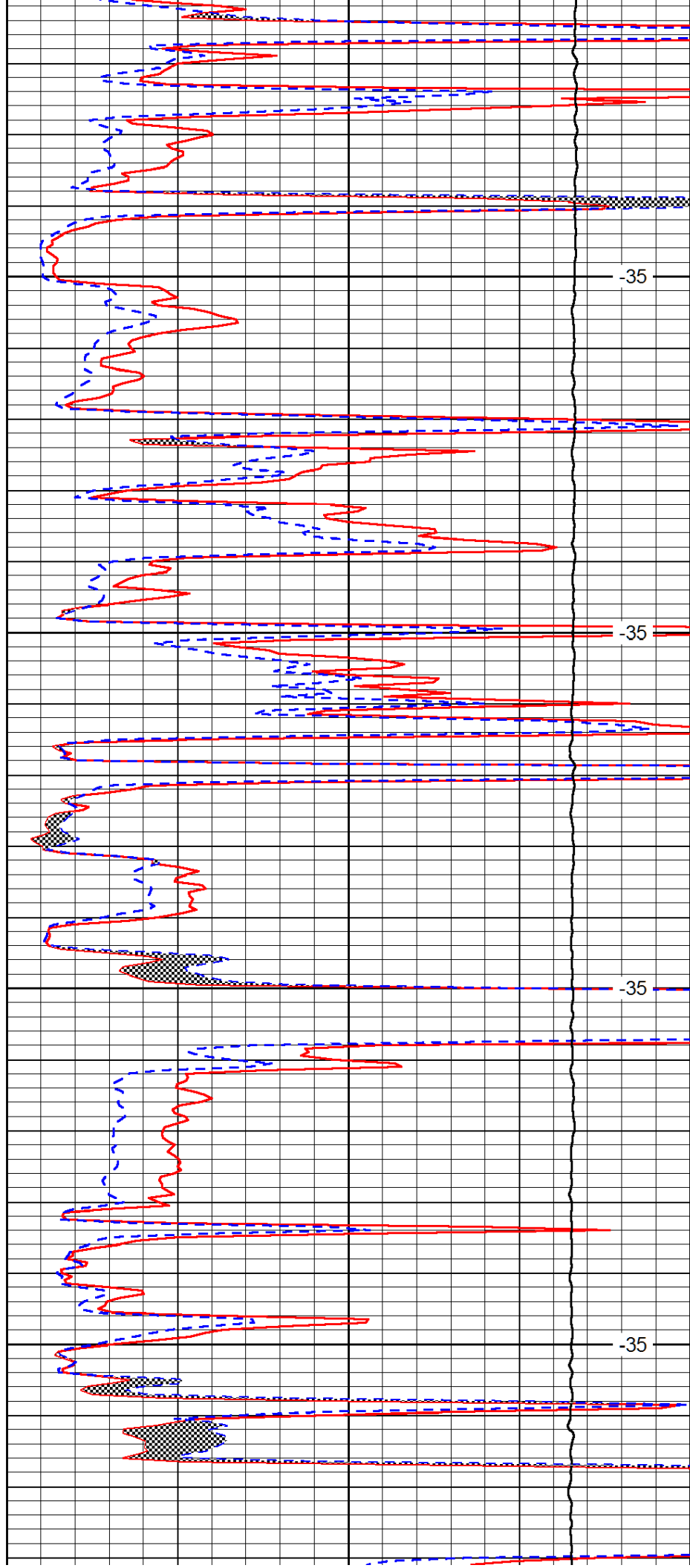


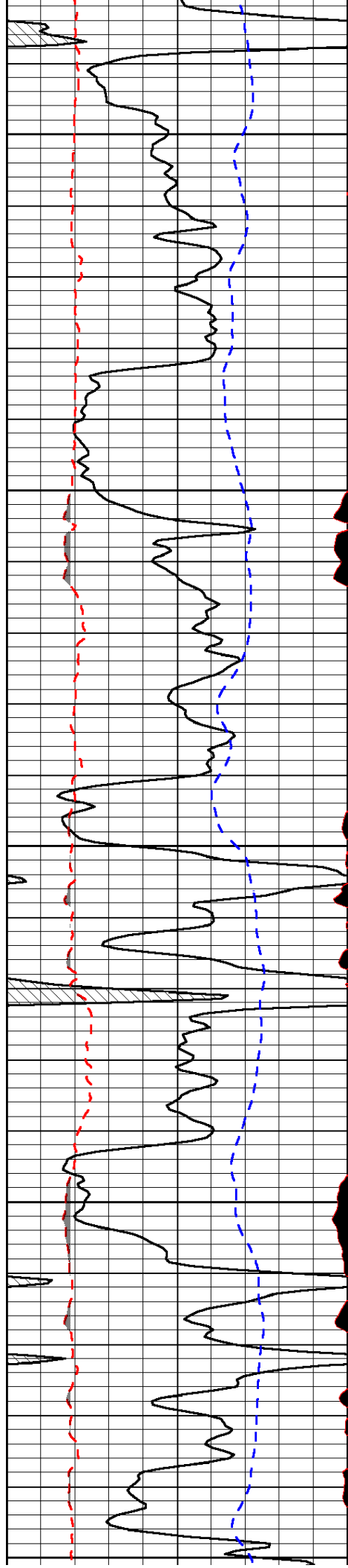
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4000

4050

4100





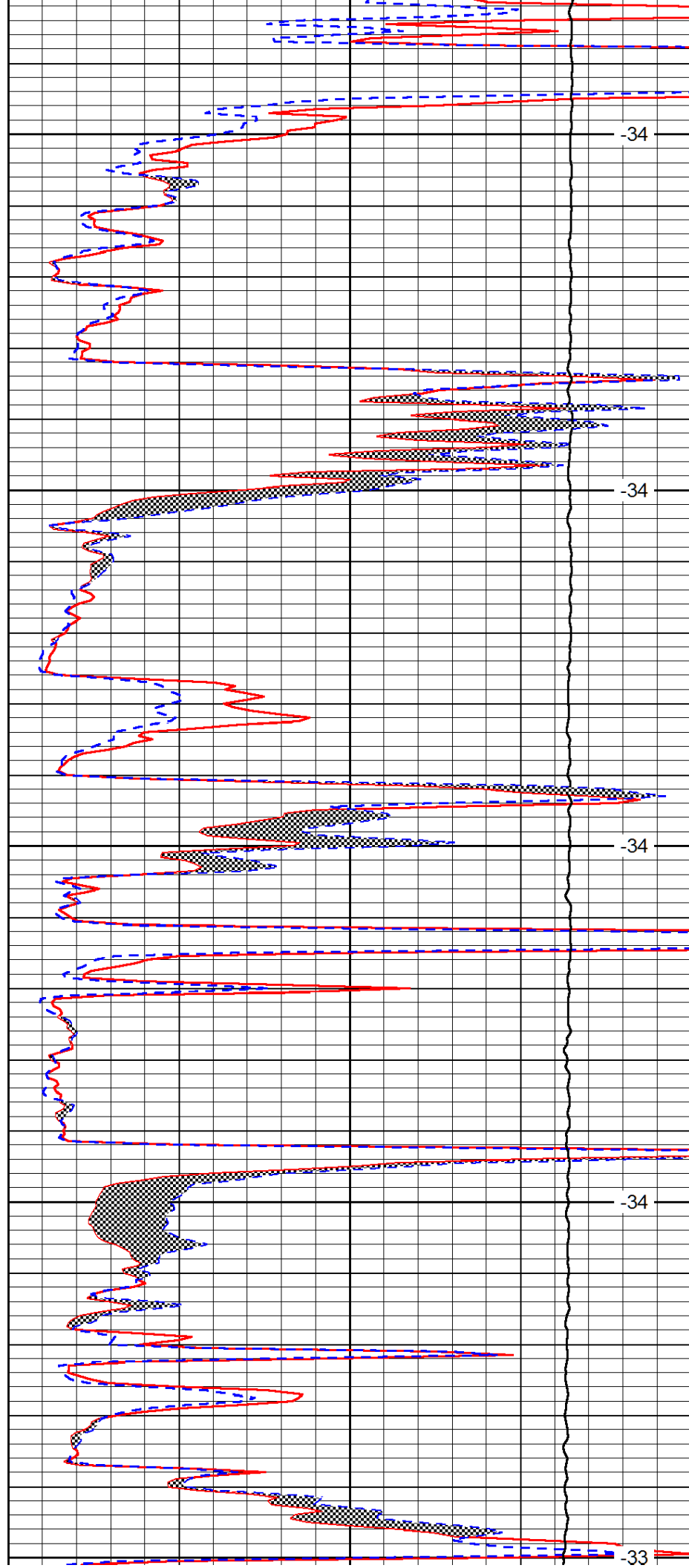
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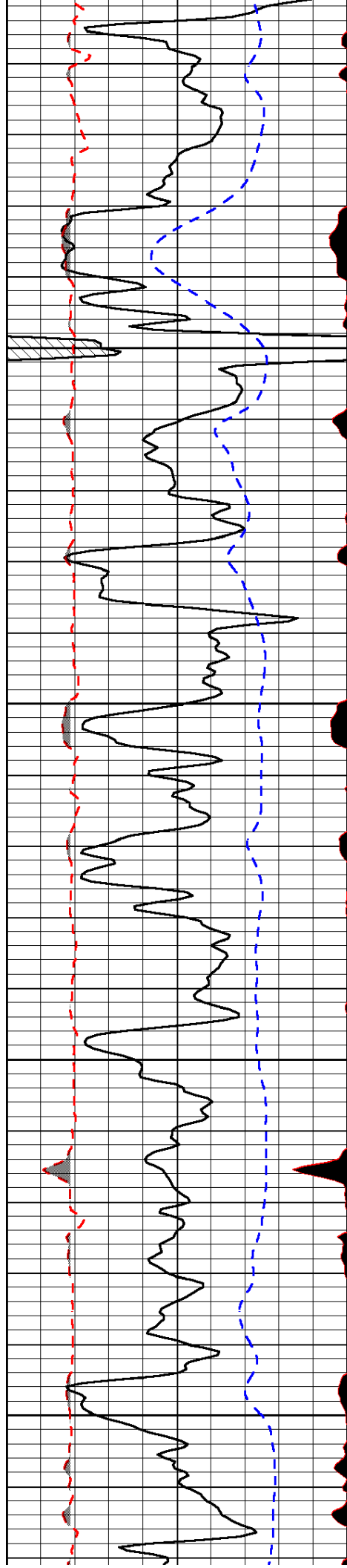
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4250

4300

4350



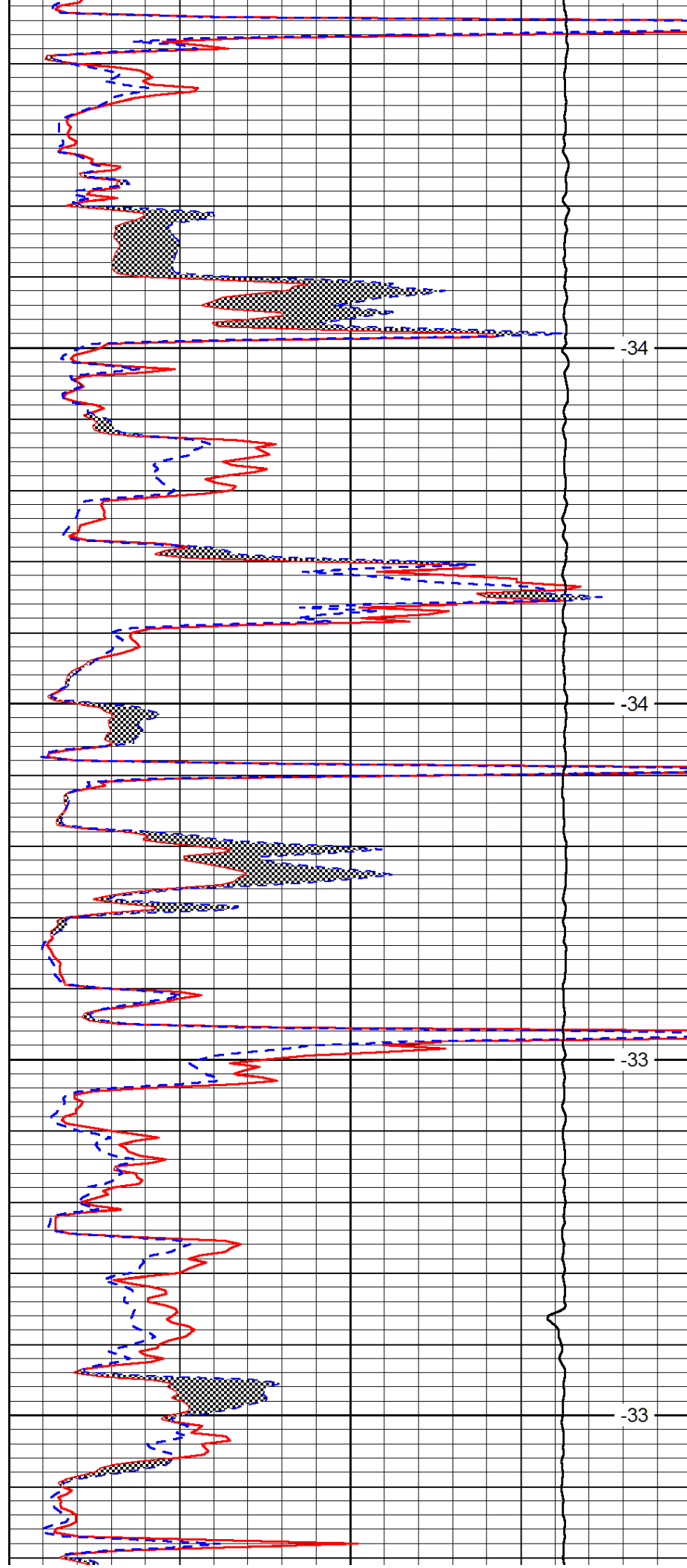


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4450

4500

4550

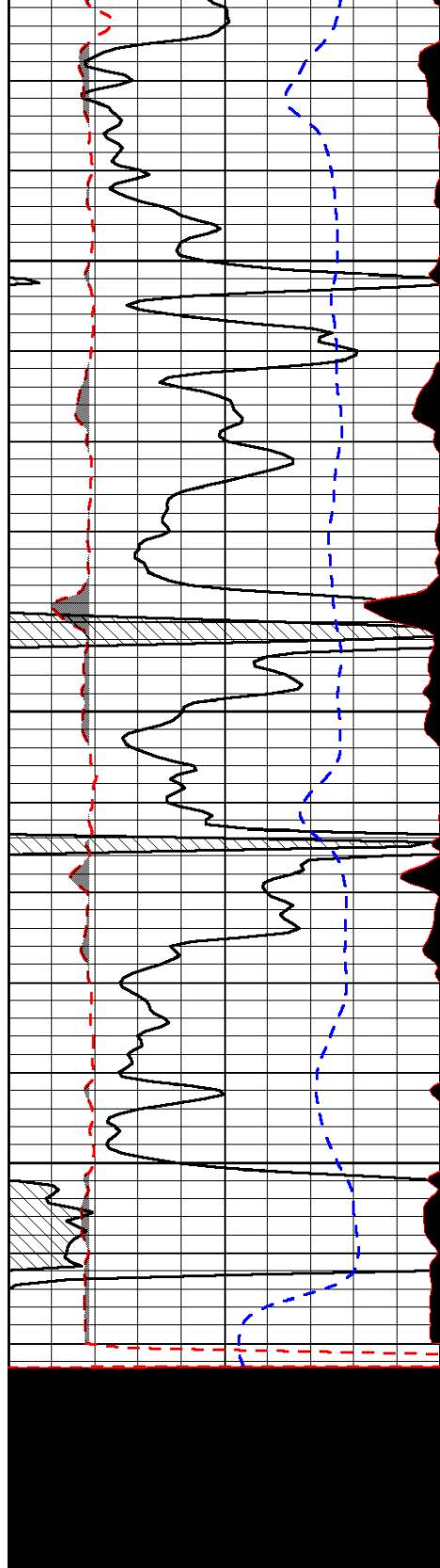


-34

-34

-33

-33

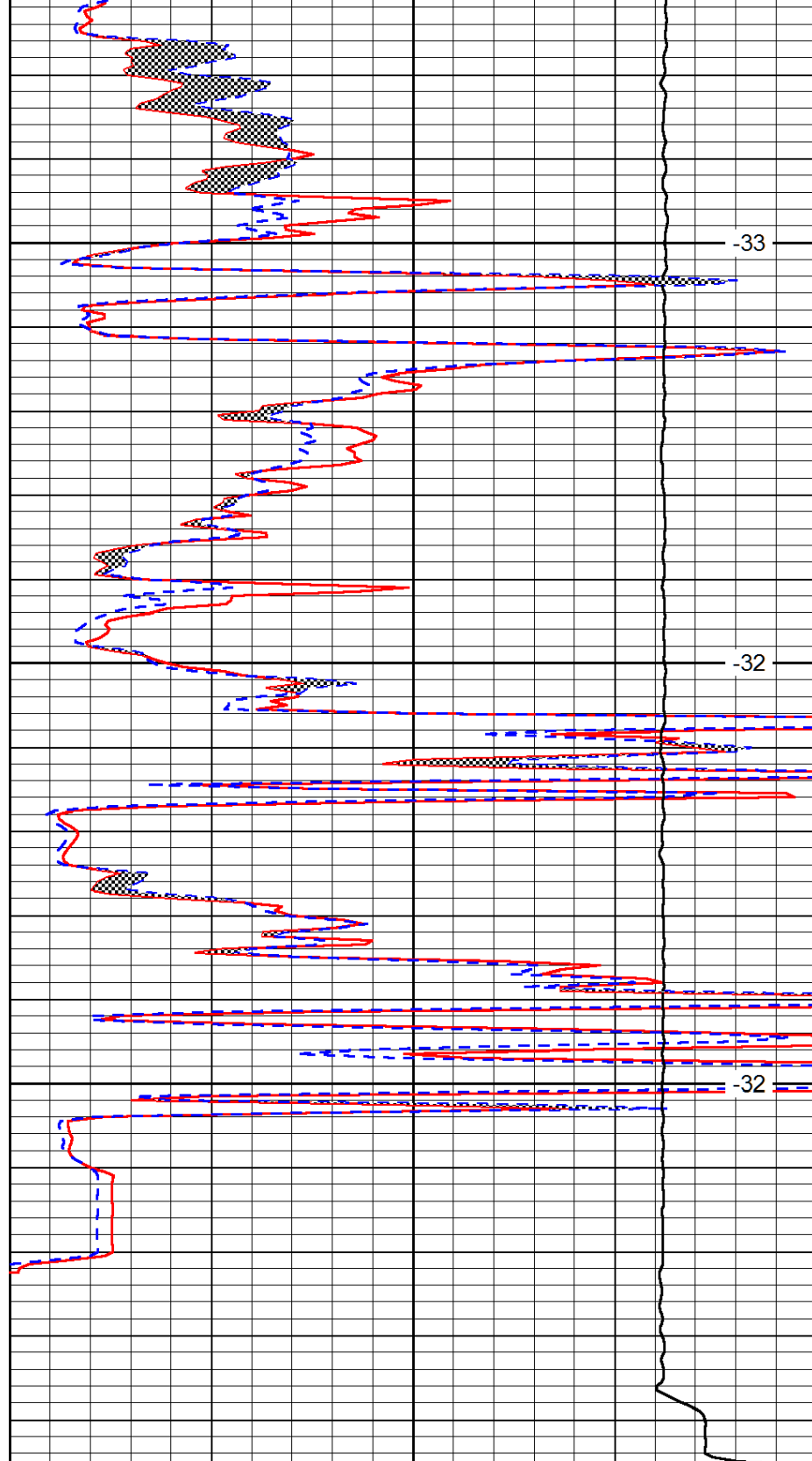


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