



Microresistivity Log

Pioneer Energy Services

API No.

15-185-23,885-00-00

Company H&D Exploration, LLC

Well Kirkpatrick No. 1

Field Halley East

County Stafford State Kansas

Location

N2-SE-NE-SE
1722' FSL & 330' FEL

Sec: 34

Twp: 24S

Rge: 13W

Other Services
CNL/CDL
DIL/BHCS

Elevation

Permanent Datum Ground Level Elevation 1923
Log Measured From Kelly Bushing 9 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

K.B. 1932
D.F.
G.L. 1923

Date

8/27/14

Run Number

Two

Depth Driller

4258

Depth Logger

4258

Bottom Logged Interval

4257

Top Log Interval

3000

Casing Driller

8.625 @ 768

Casing Logger

766

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

7.500

Density / Viscosity

9.7 51

pH / Fluid Loss

8.5 13.2

Source of Sample

Flowline

Rm @ Meas. Temp

.37 @ 72

Rmf @ Meas. Temp

.28 @ 72

Rmc @ Meas. Temp

.50 @ 72

Source of Rmf / Rmc

Charts

Rm @ BHT

.22 @ 119

Operating Rig Time

4 Hours

Max Rec. Temp. F

119

Equipment Number

91

Location

Hays

Recorded By

J. Henrickson

Witnessed By

Josh Austin

<<< 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

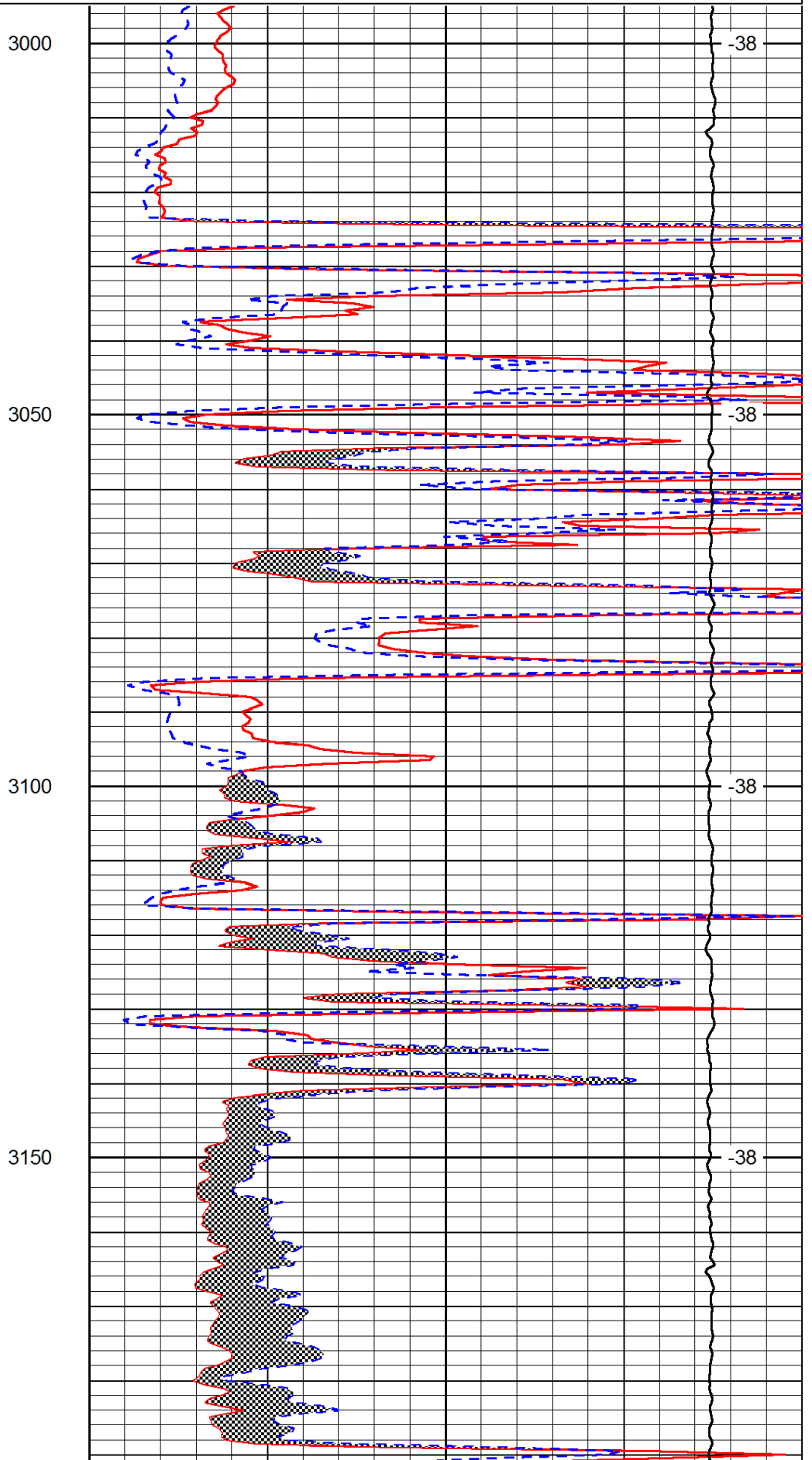
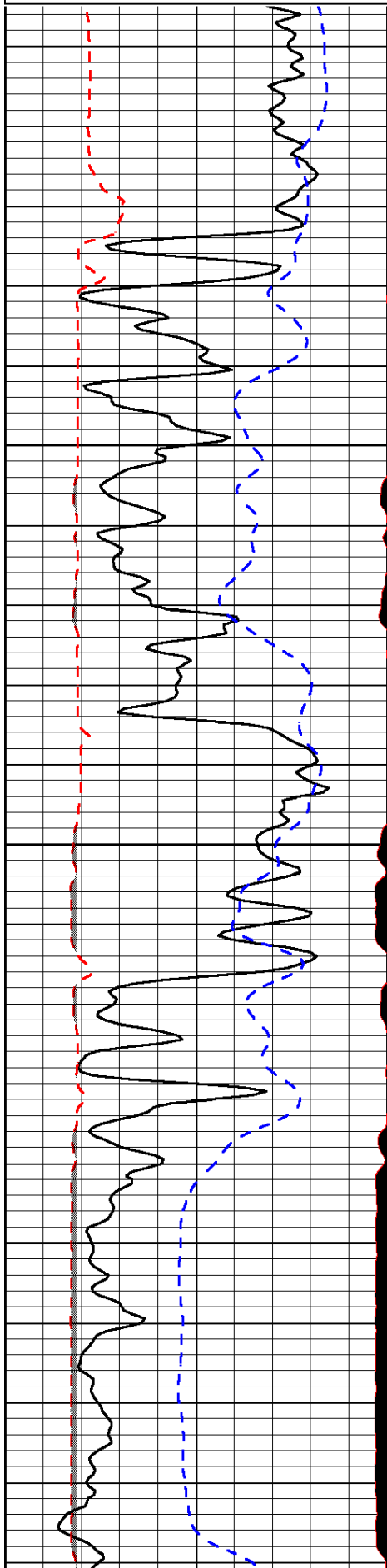
Thank you for using Log-Tech, Inc.
(785) 625-3858

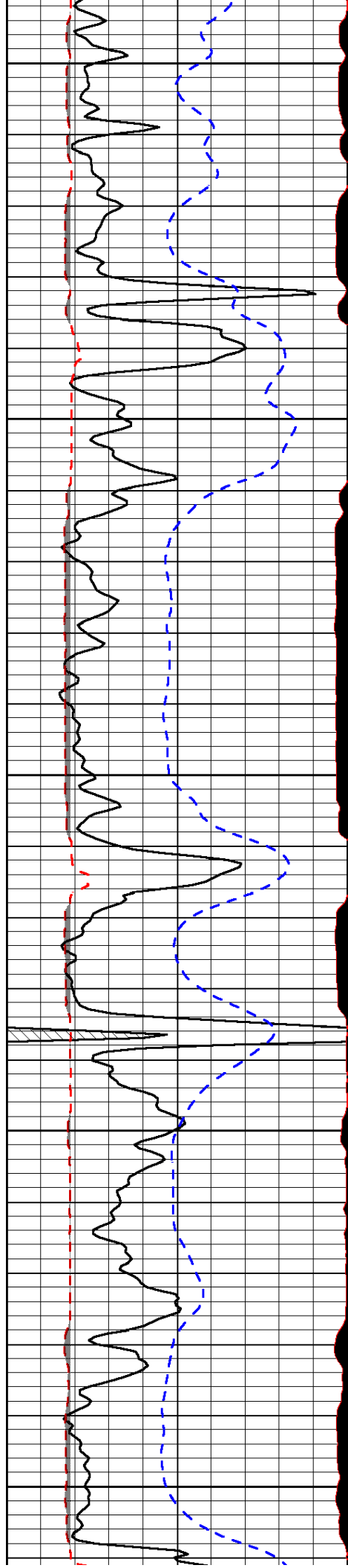
St. John Kansas
South to 30 Rd, 1 East, 1/4 North, West Into

Database File: hd_kirkpatrick_1hd.db
Dataset Pathname: DIL/hdstk
Presentation Format: micro
Dataset Creation: Wed Aug 27 12:35:56 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





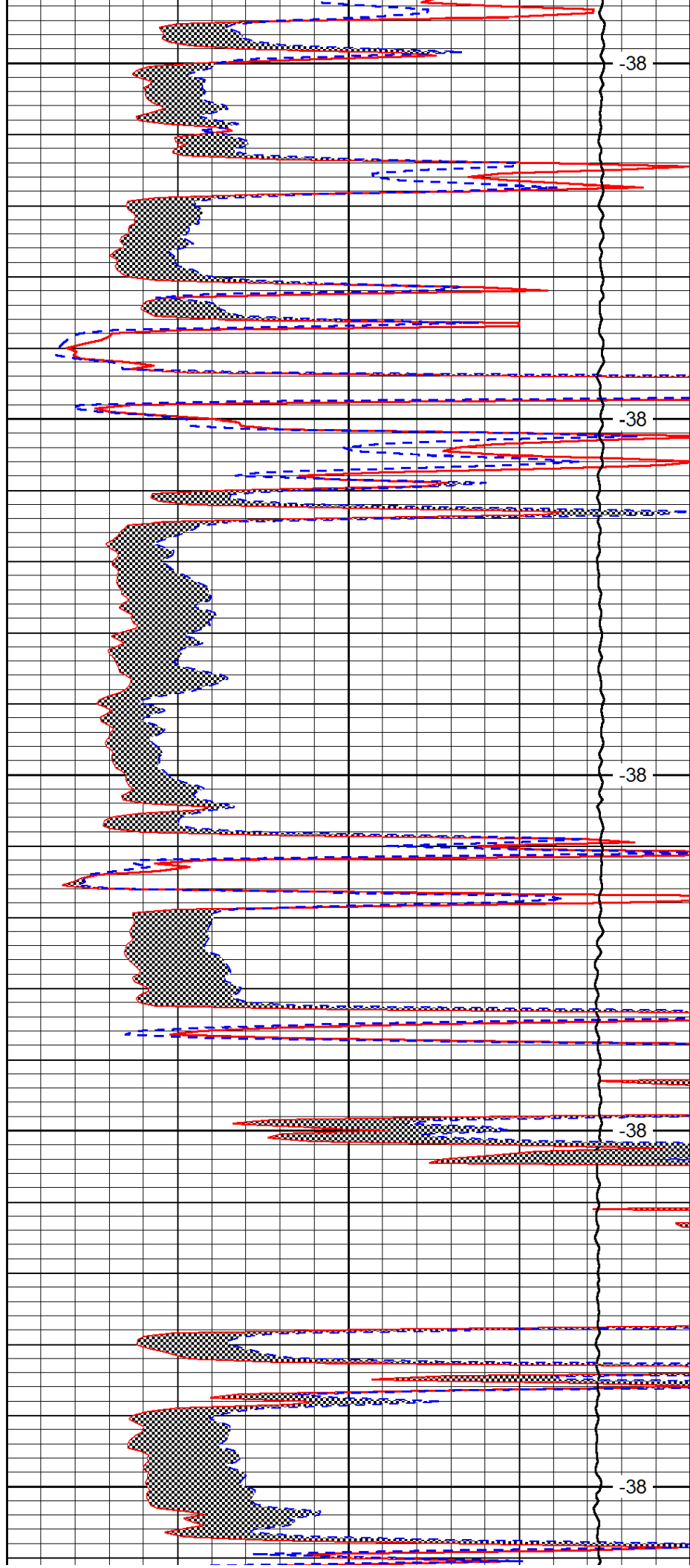
3200

3250

3300

3350

3400



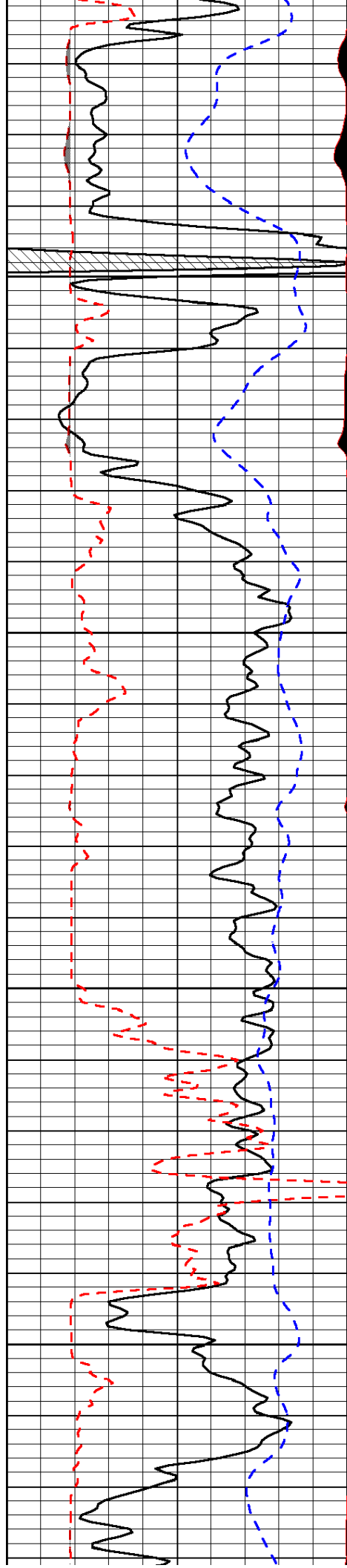
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-38

-38

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-38

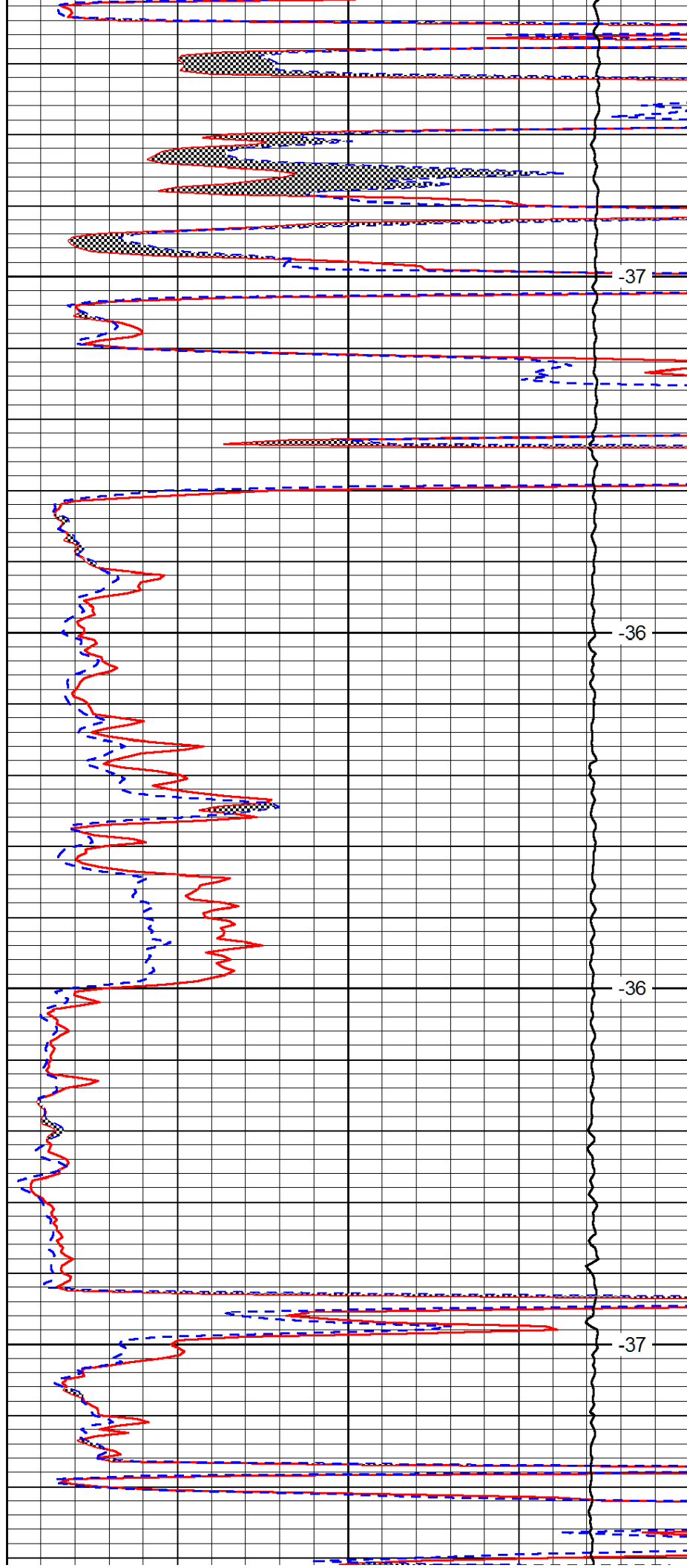


3450

3500

3550

3600

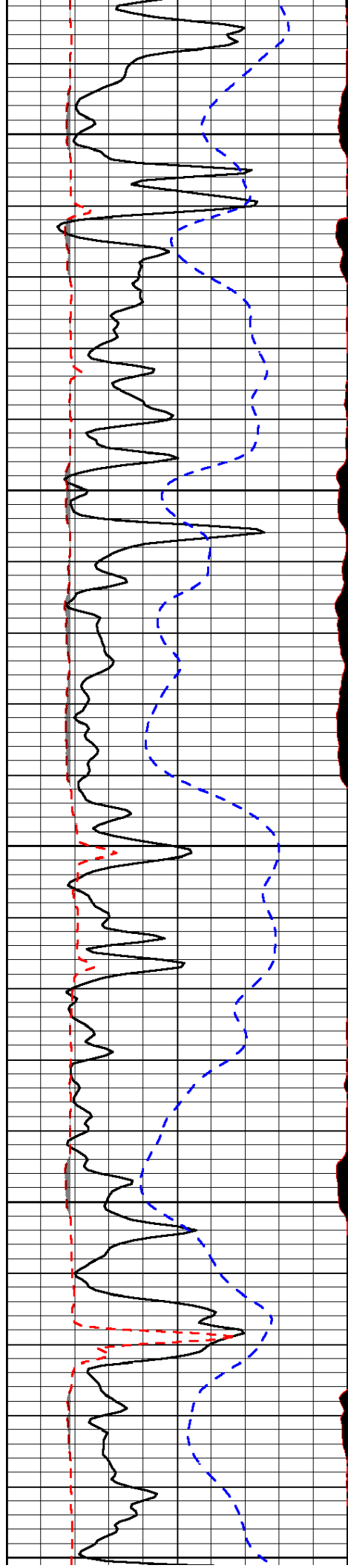


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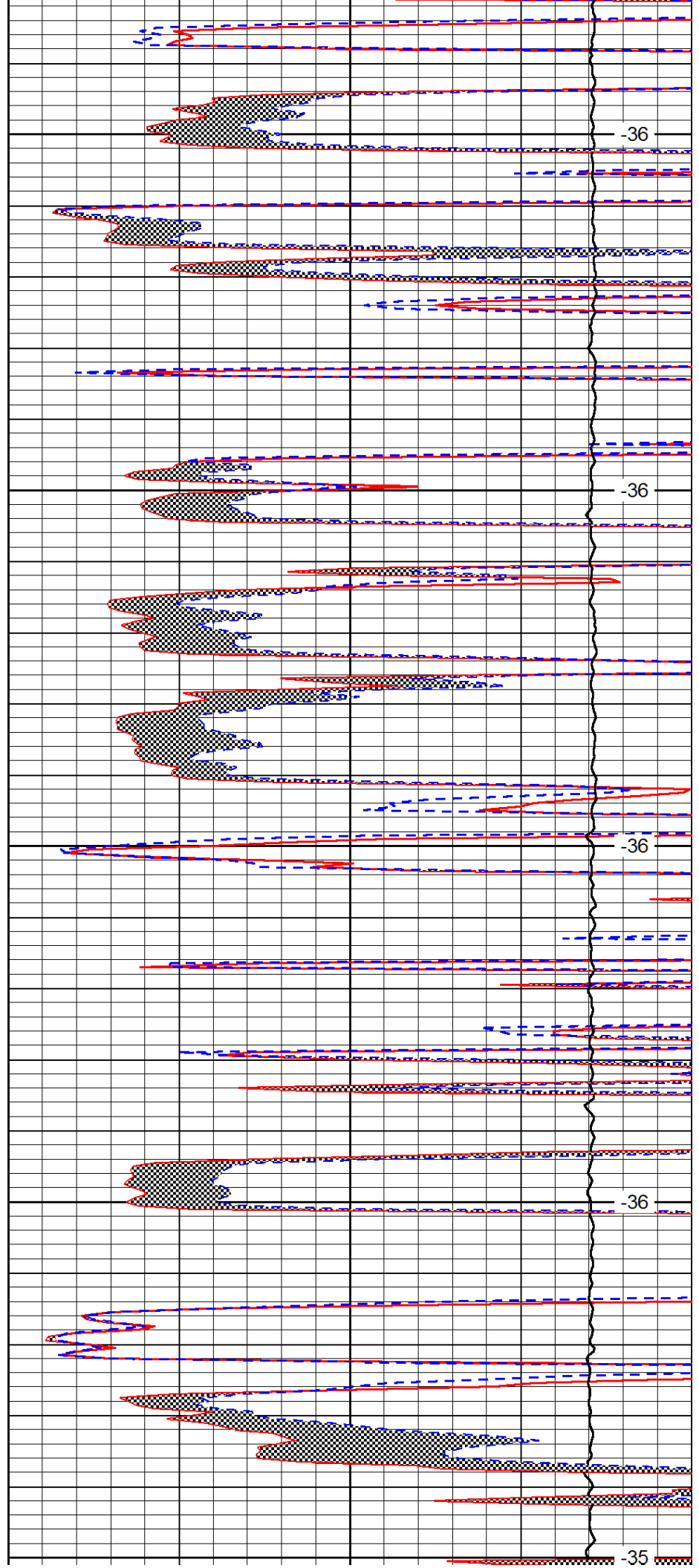
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3700

3750

3800

3850



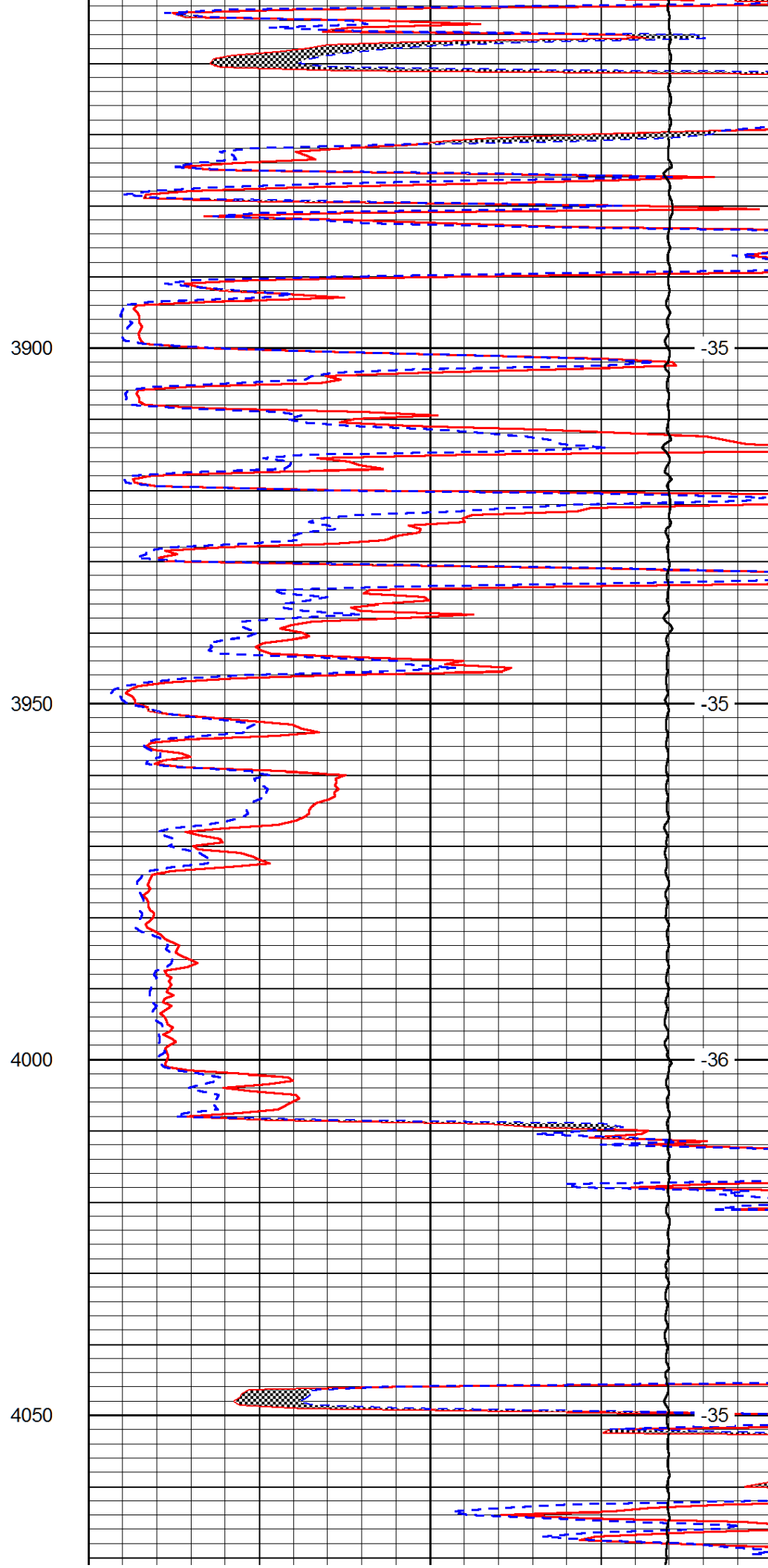
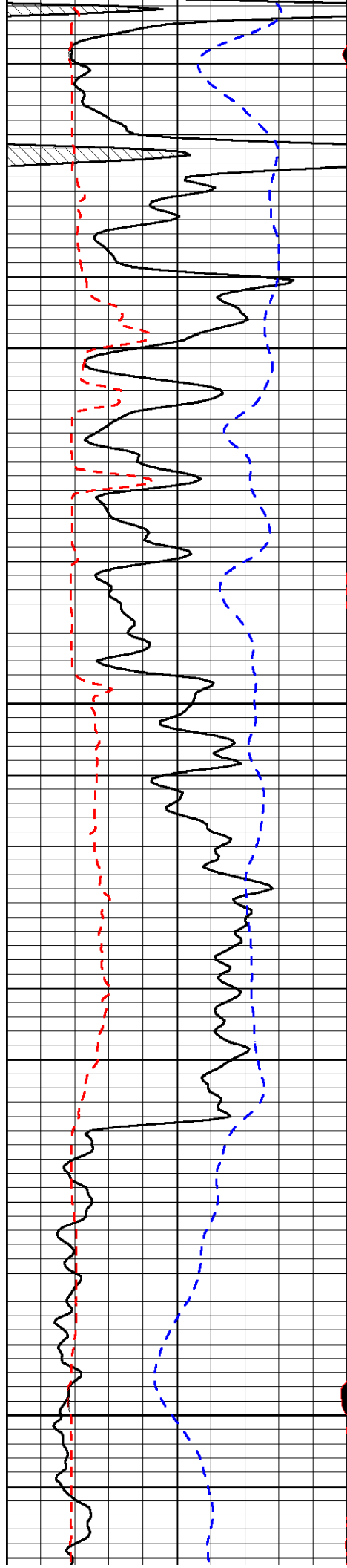
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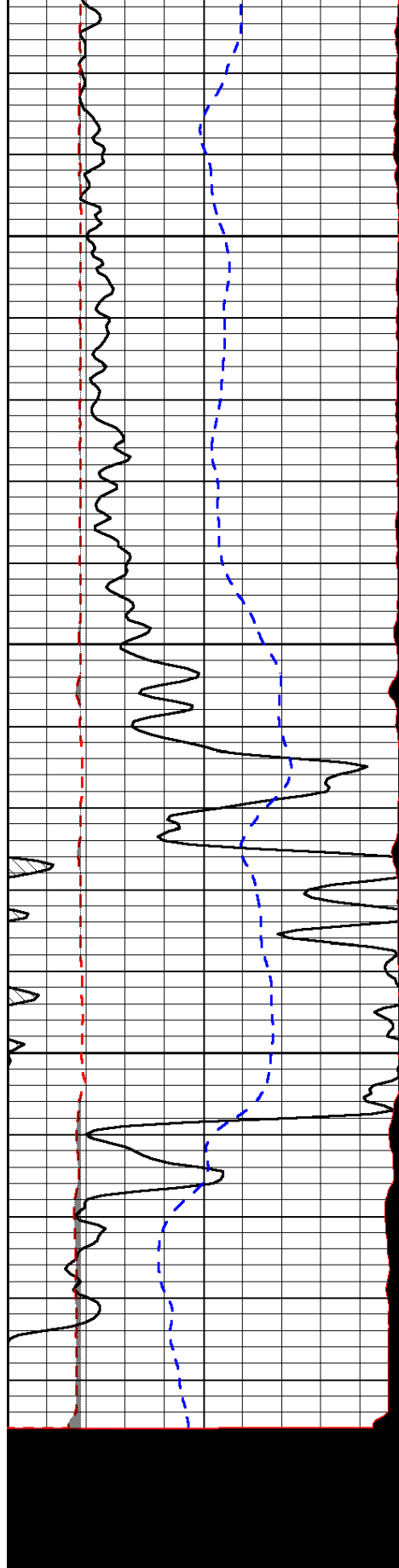
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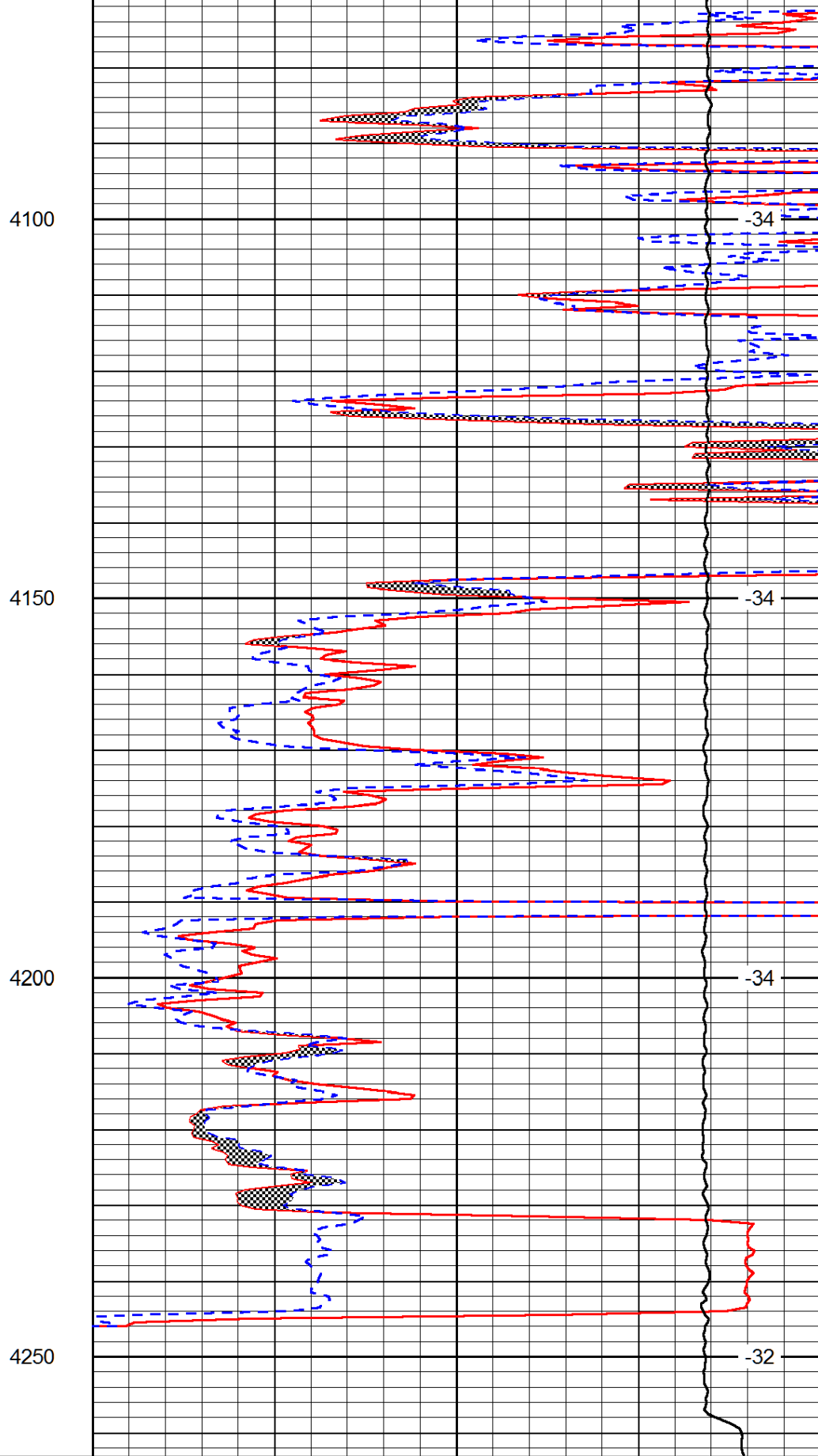
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-35





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