



Microresistivity Log

Pioneer Energy Services

API No.

15-171-20984-00-00

Company **Landmark Resources, Inc.**

Well **Rose #1-3**

Field **Wildcat**

County **Scott** State **Kansas**

Location **NW NE NW SW
2322' FSL / 985' FWL**

Sec: **3** Twp: **17S** Rge: **34W**

Other Services
CNL / CDL
DIL / BHCS

Permanent Datum Ground Level Elevation 3125
Log Measured From Kelly Bushing 5 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Elevation
K.B. 3130
D.F.
G.L. 3125

Date 9/29/2013

Run Number Two

Depth Driller 4880

Depth Logger 4883

Bottom Logged Interval 4882

Top Log Interval 3500

Casing Driller 8.625 @ 261

Casing Logger 258

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 8500

Density / Viscosity 9.3 59

pH / Fluid Loss 8.5 12.0

Source of Sample Flowline

Rm @ Meas. Temp 0.20 @ 70

Rmf @ Meas. Temp 0.15 @ 70

Rmc @ Meas. Temp 0.27 @ 70

Source of Rmf / Rmc Charts

Rm @ BHT 0.11 @ 125

Operating Rig Time 5 Hours

Max Rec. Temp. F 125

Equipment Number 15

Location Hays

Recorded By R. Barnhart

Witnessed By Terry McLeod

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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.

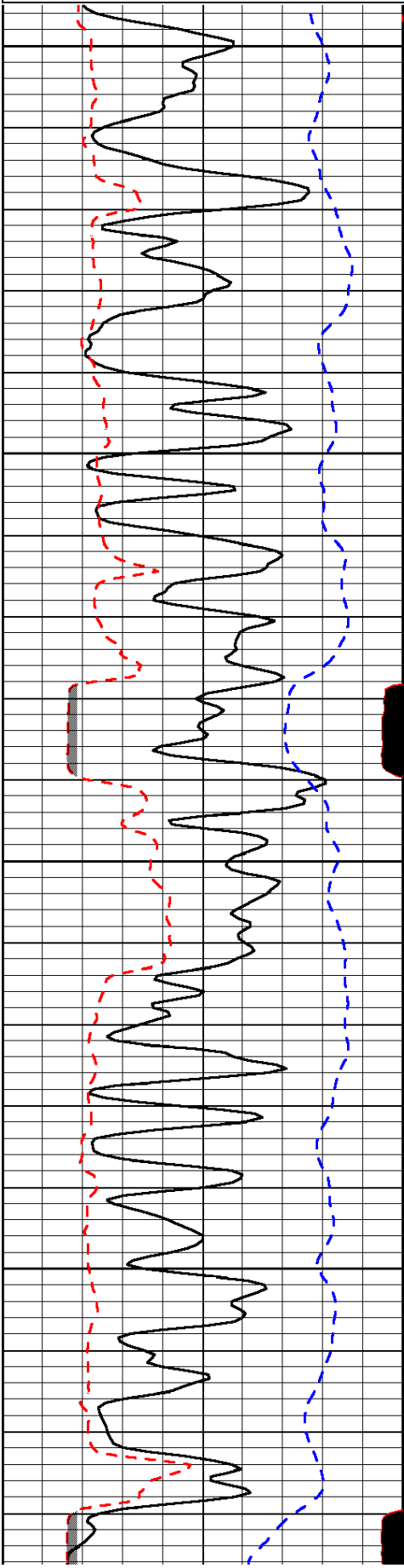
Comments

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

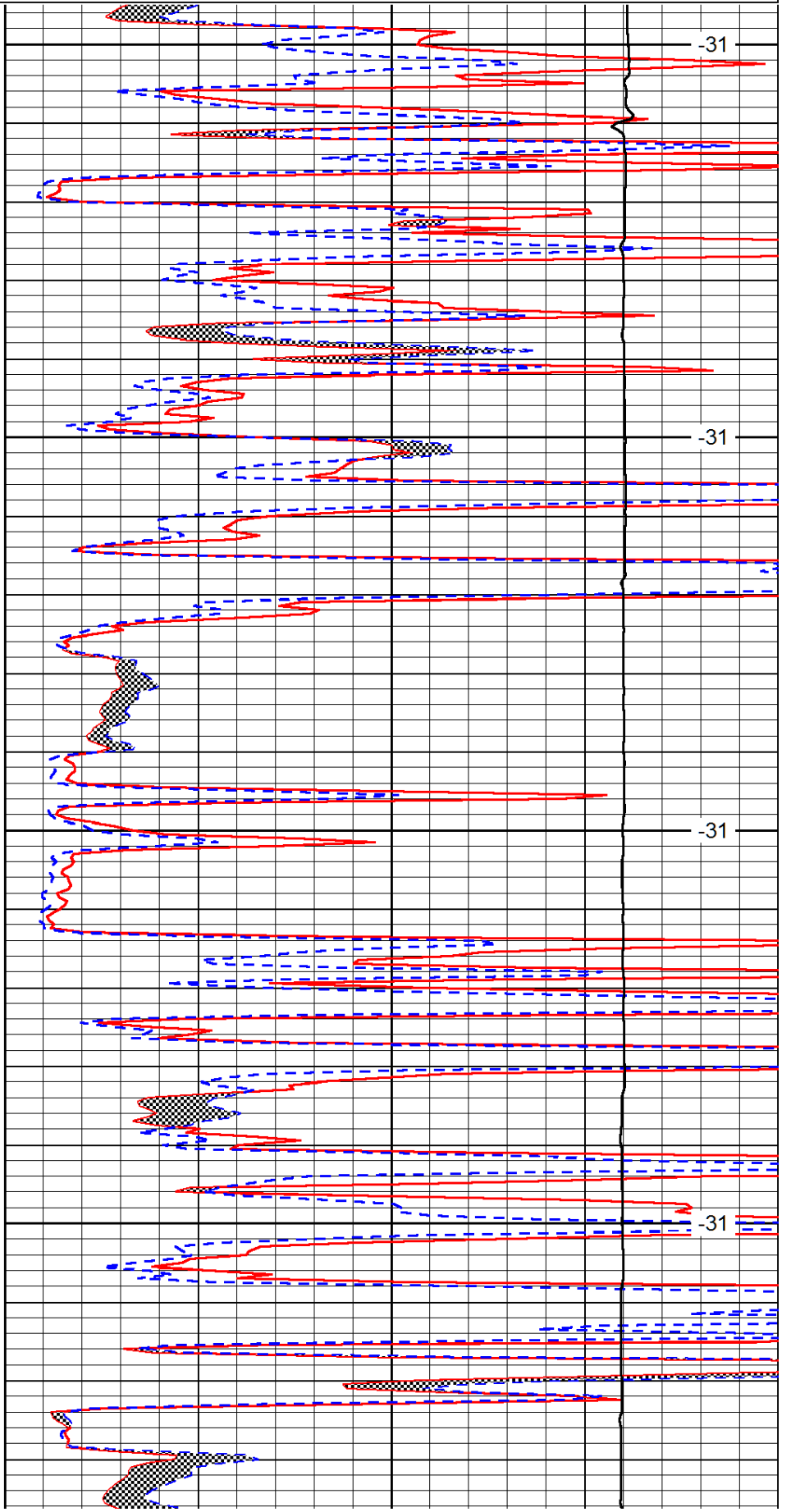
Scott City, KS:
N to Hwy 83 & Hwy 4: 4W, 1N, 5W, 1/2S, E into

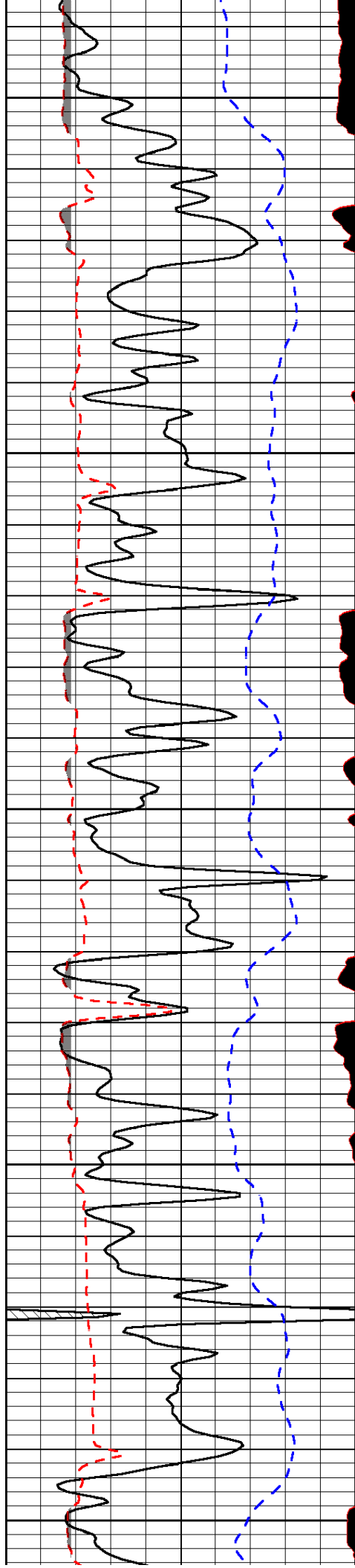
Database File: landmark_hd.db
Dataset Pathname: dil/Indmain
Presentation Format: micro
Dataset Creation: Sun Sep 29 12:59:30 2013
Charted by: Depth in Feet scaled 1:240

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)





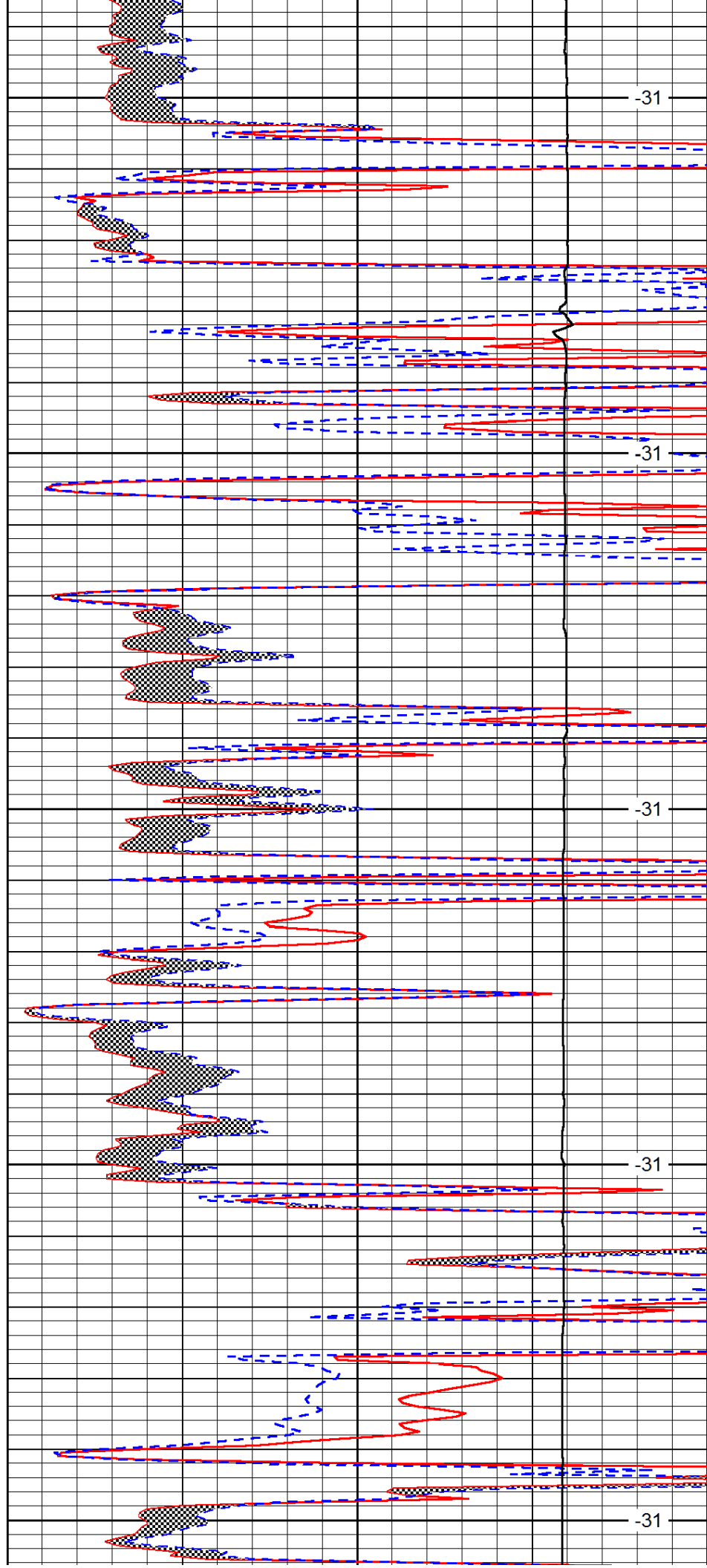
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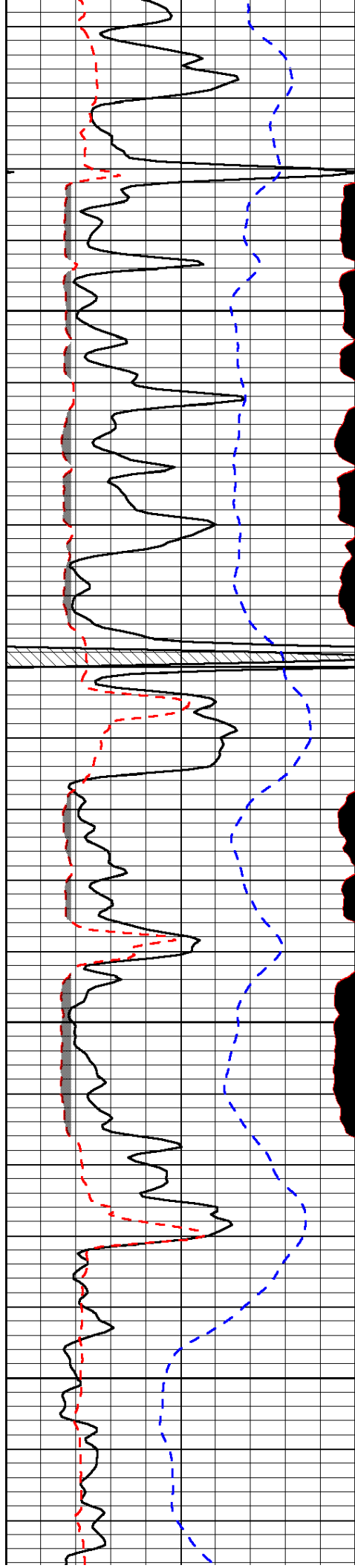
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3800

3850

3900



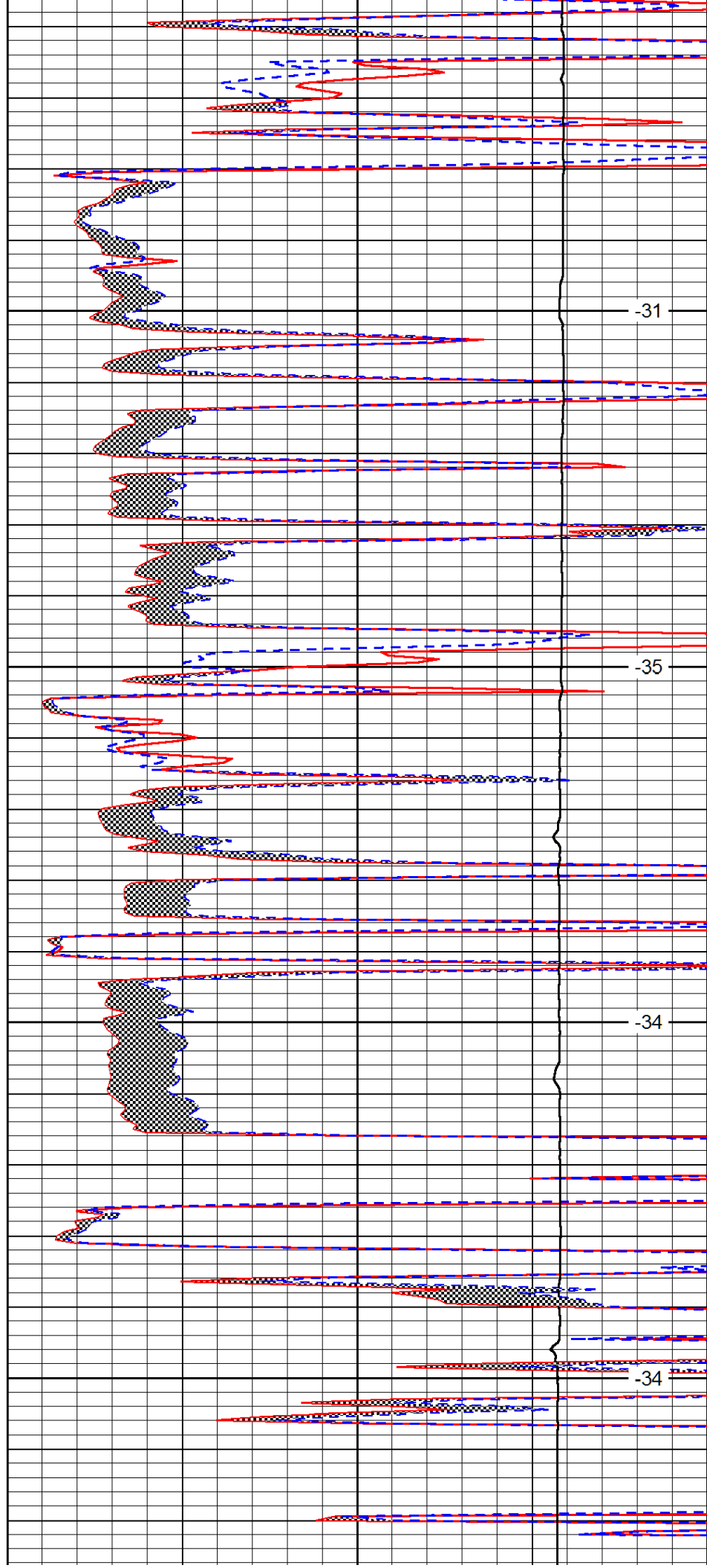


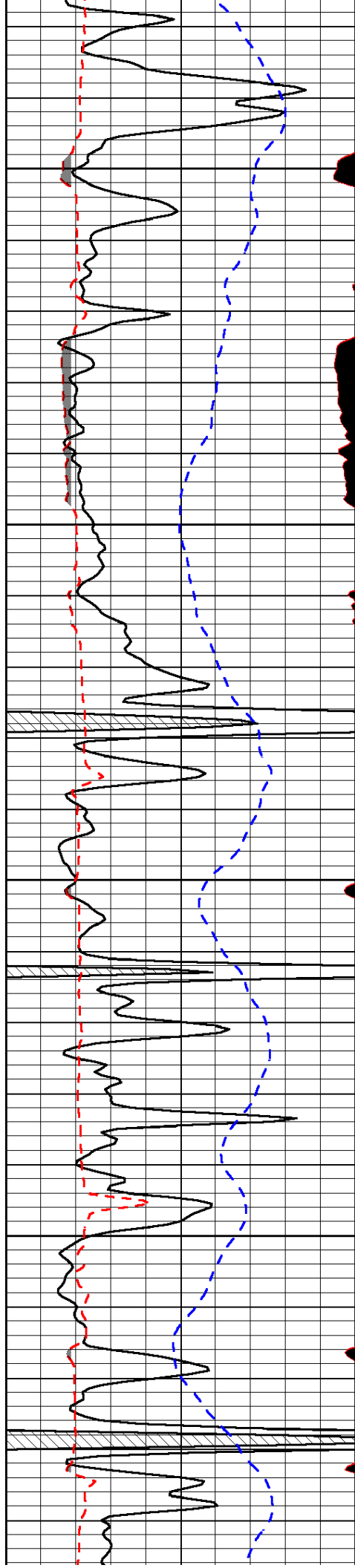
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4000

4050

4100



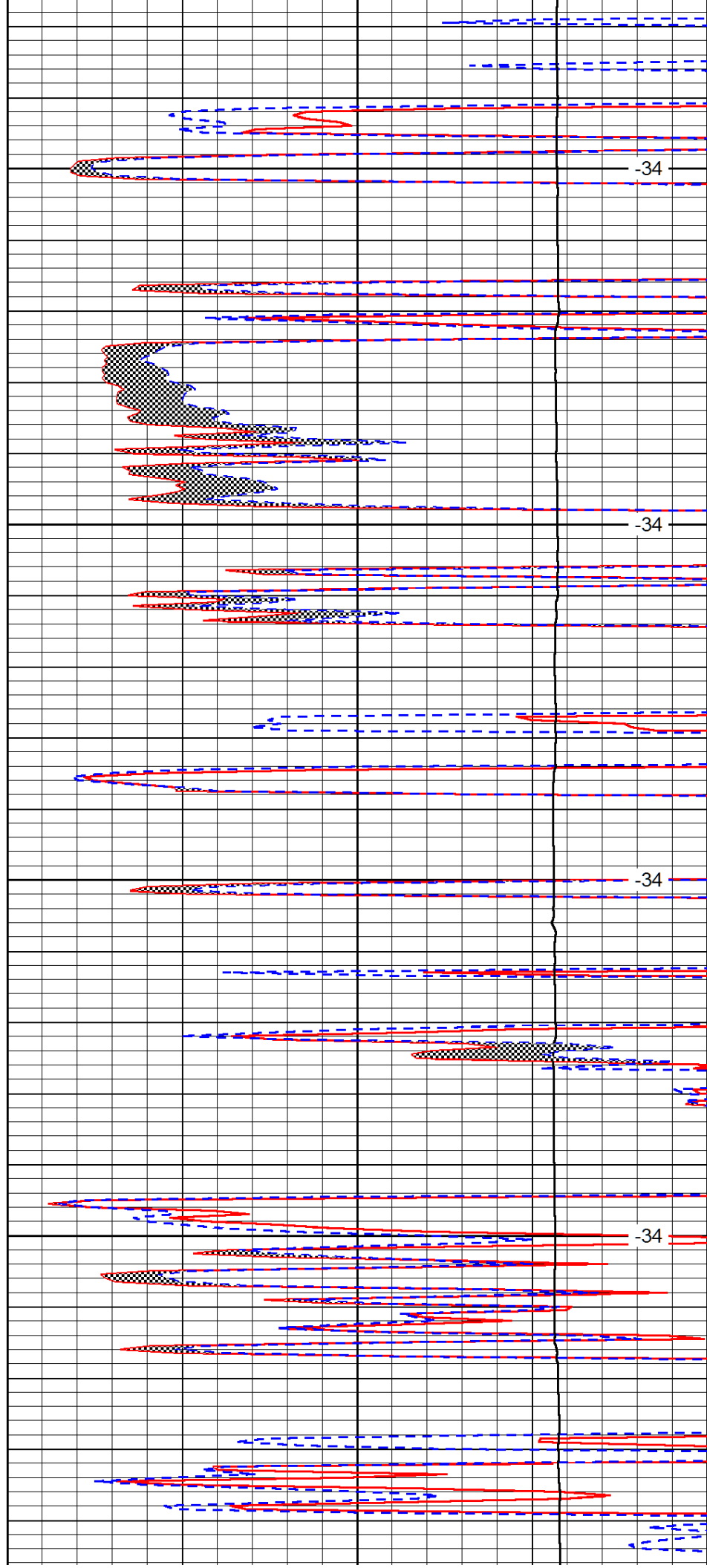


4150

4200

4250

4300

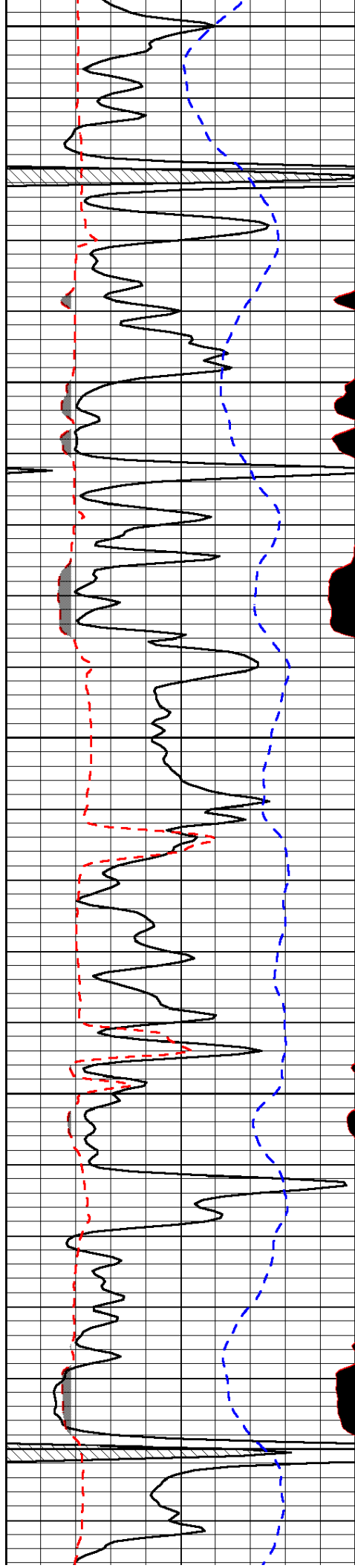


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-34

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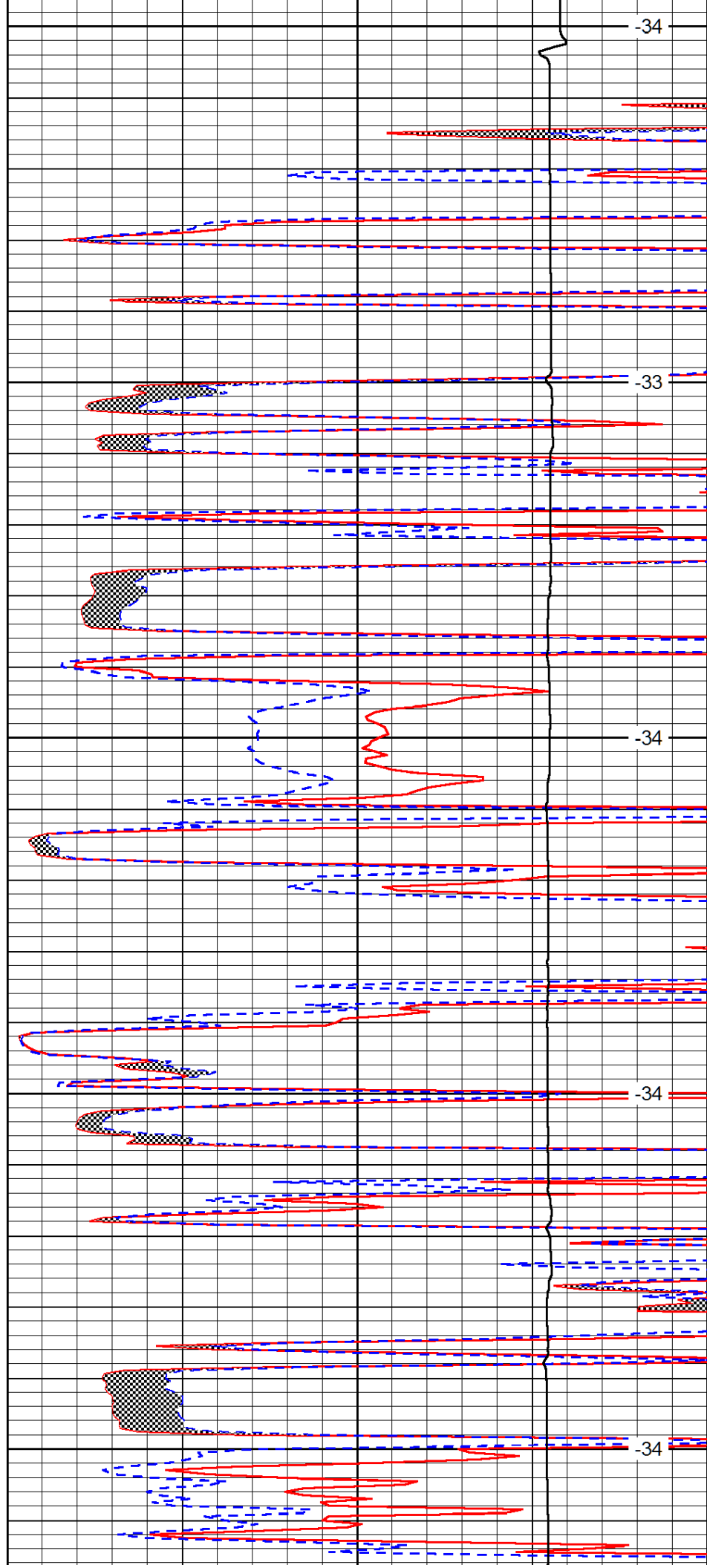
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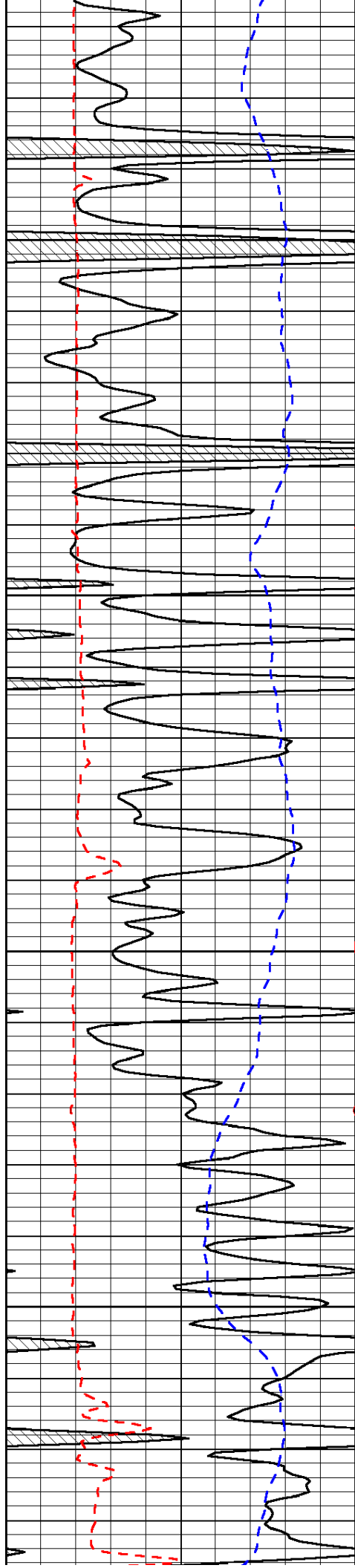
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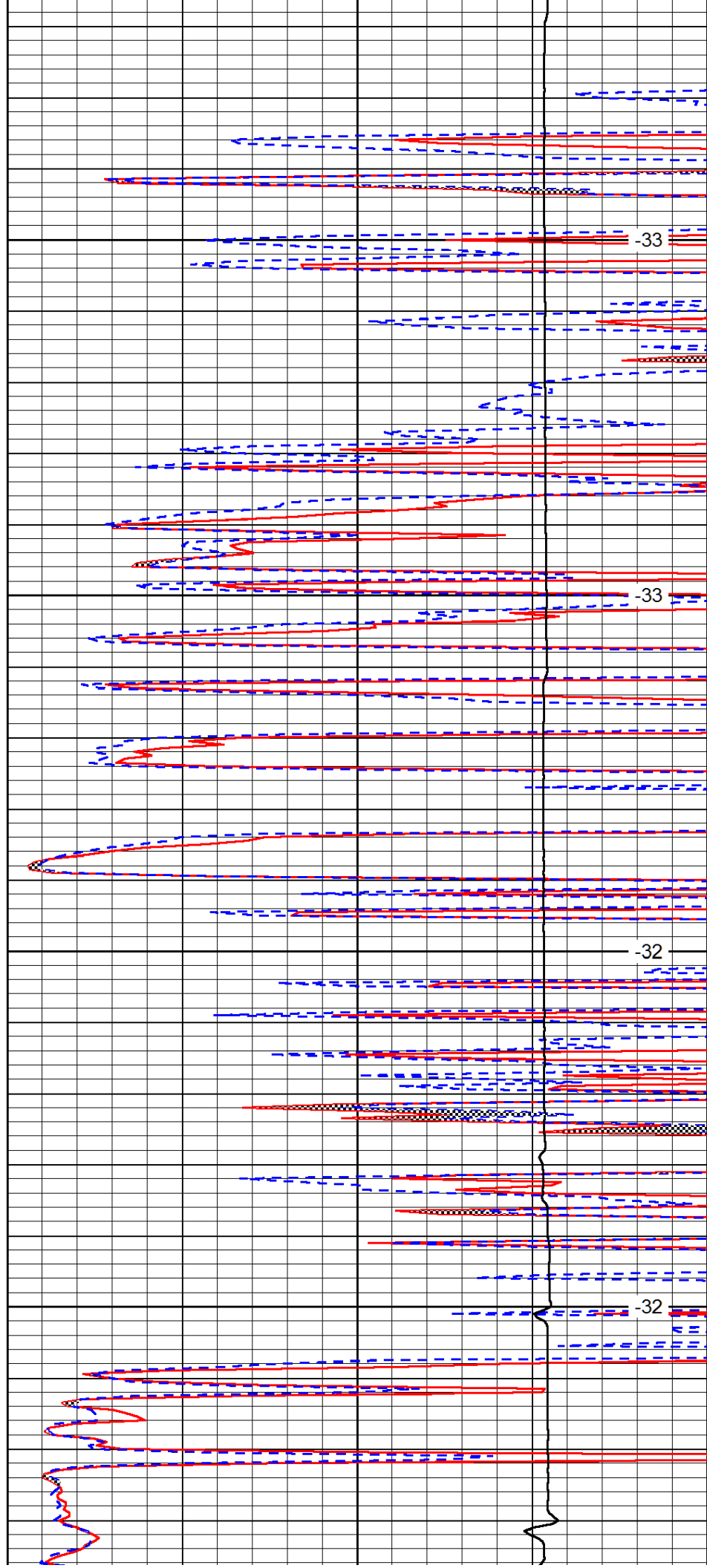


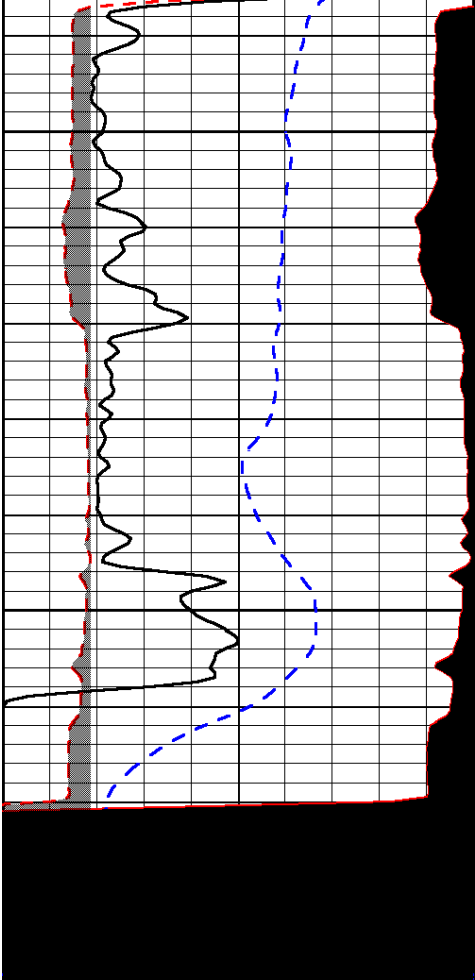
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4700

4750

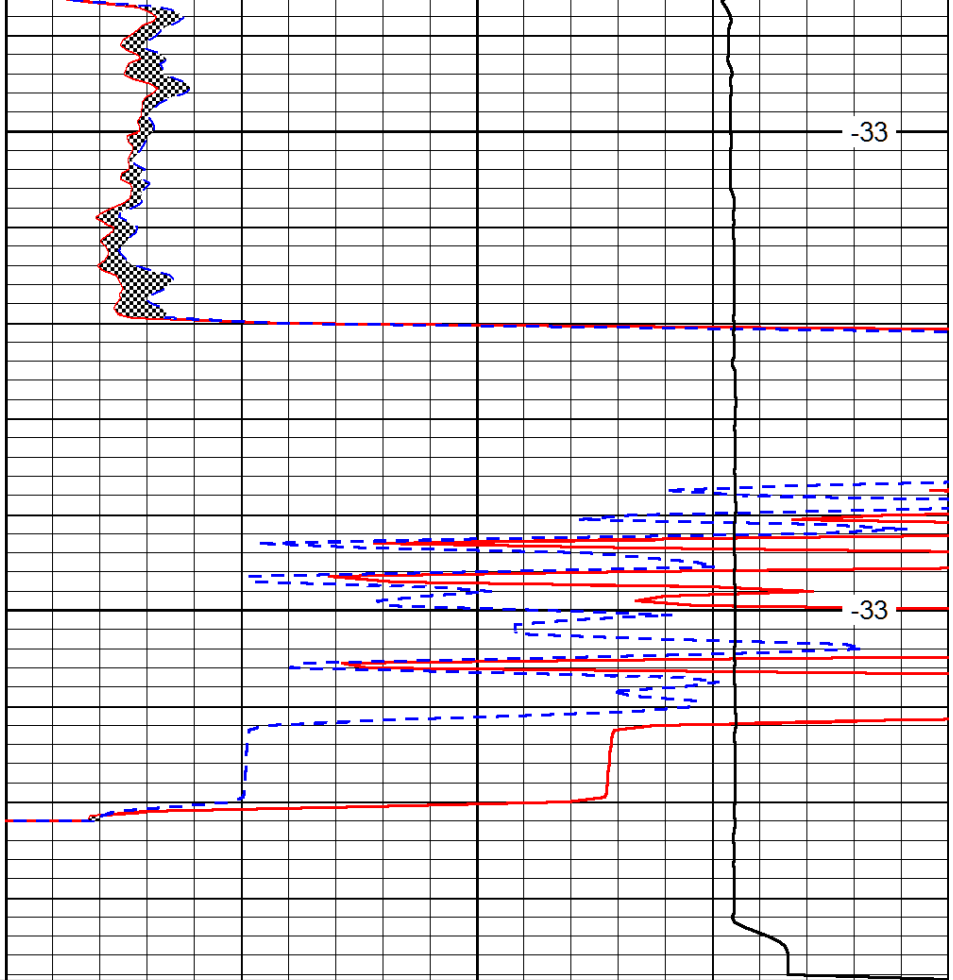




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