



Dual Induction Log

DIGITAL LOG

(785) 625-3858

15-193-20792-00-00

Company Murfin Drilling Company, Inc.

Well Steele "A" #1-20

Field Wildcat

County Thomas

State

Kansas

Location 1760' FNL / 1450' FEL

Other Services
CNL / CDL
MEL / BHCS

Sec: 20 Twp: 10S Rge: 34W

Elevation

Permanent Datum Ground Level Elevation 3233

Log Measured From Kelly Bushing 5 Ft. Above Perm. Datum

Drilling Measured From Kelly Bushing

K.B. 3238
D.F.
G.L. 3233

Date 4/16/2011

Run Number One

Depth Driller 4845

Depth Logger 4845

Bottom Logged Interval 4844

Top Log Interval 0

Casing Driller 8.625 @ 246

Casing Logger 243

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 8000

Density / Viscosity 9.0 50

pH / Fluid Loss 11.5 6.8

Source of Sample Flowline

Rm @ Meas. Temp 0.44 @ 50

Rmf @ Meas. Temp 0.33 @ 50

Rmc @ Meas. Temp 0.59 @ 50

Source of Rmf / Rmc Charts

Rm @ BHT 0.17 @ 126

Operating Rig Time 5 Hours

Max Rec. Temp. F 126

Equipment Number 17

Location Hays

Recorded By R. Barnhart

Witnessed By Paul Gunzelman

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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

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(785) 625-3858

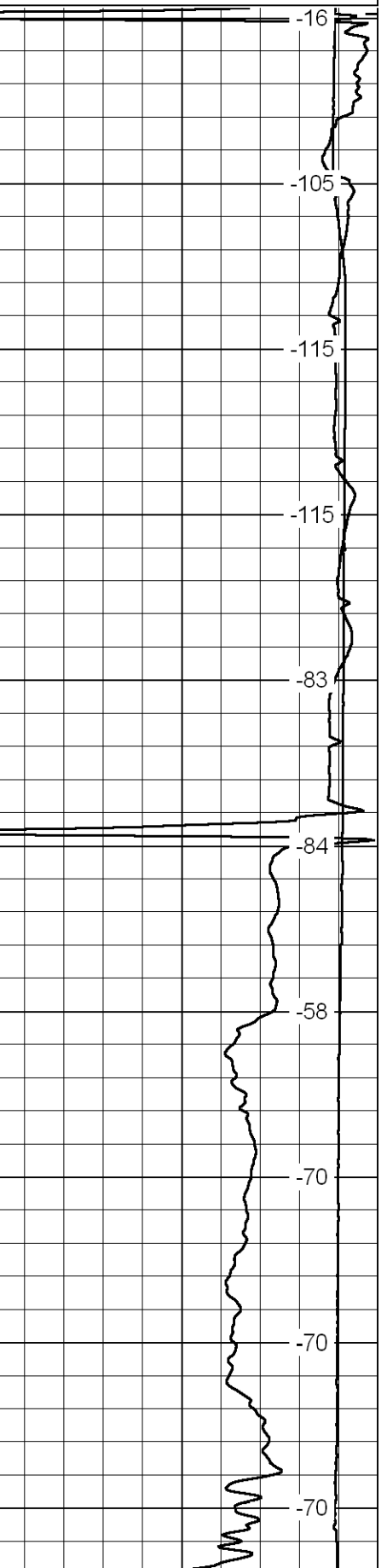
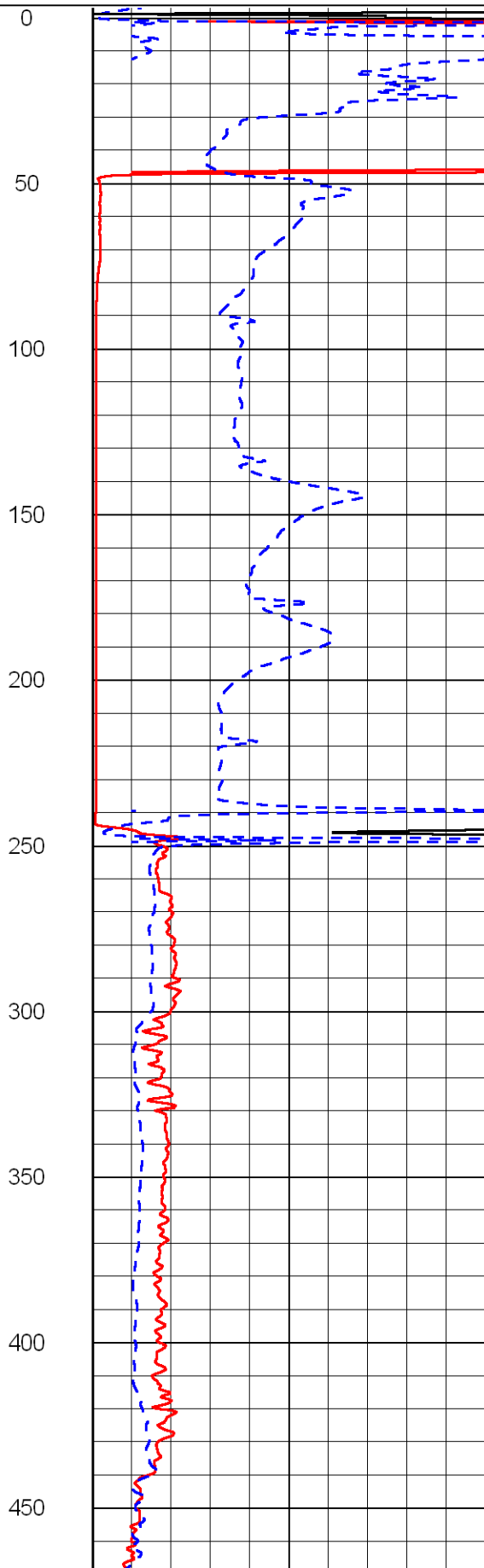
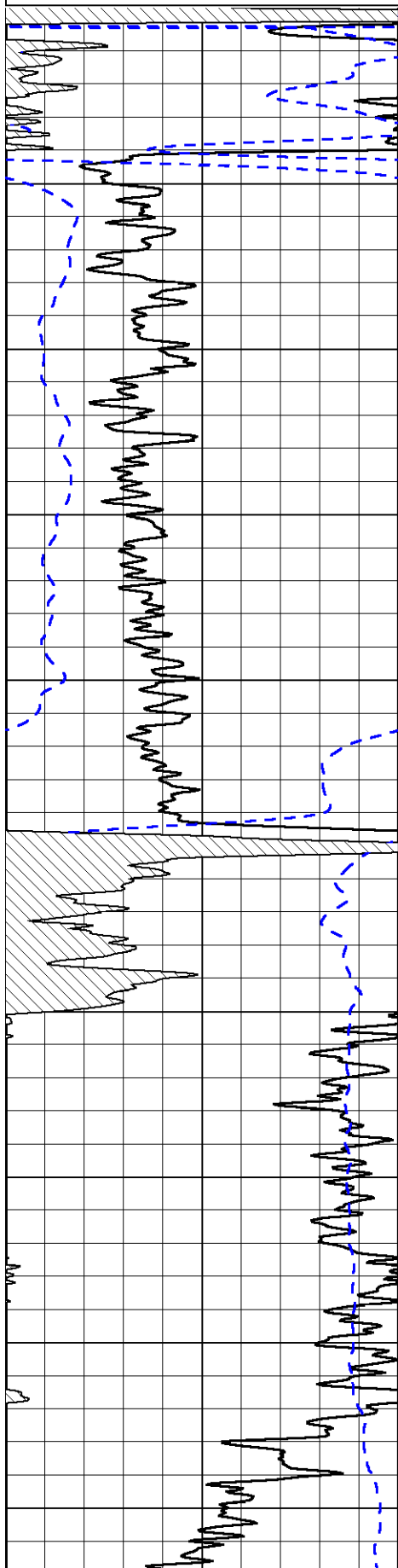
Monument, KS:
2W to Hwy 25, 5N to Rd. D,
4W to 15 Rd. 1/2S, W into

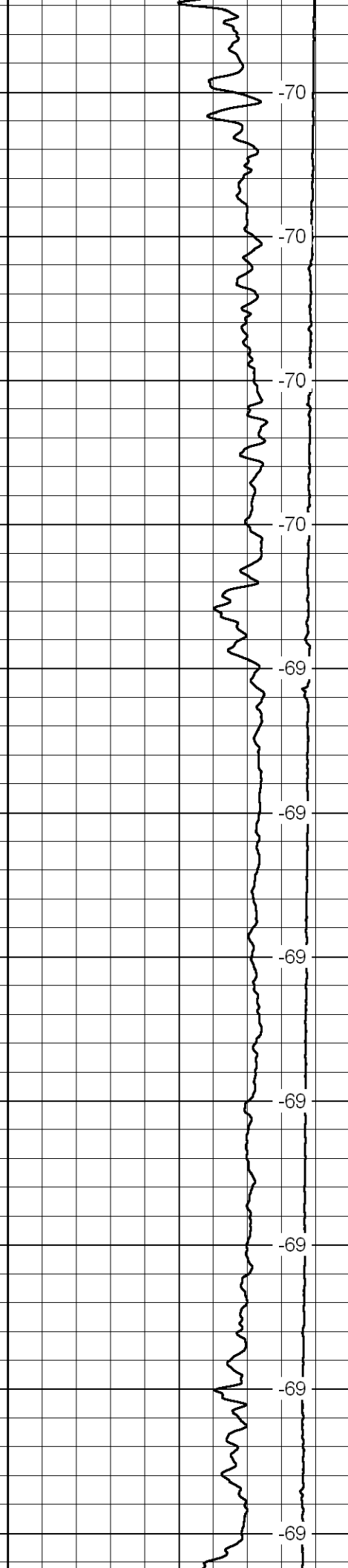
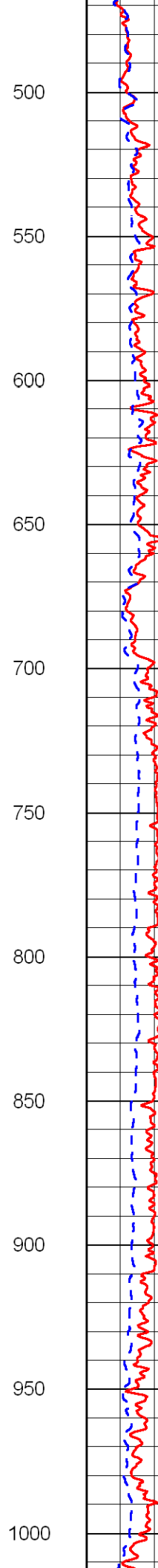
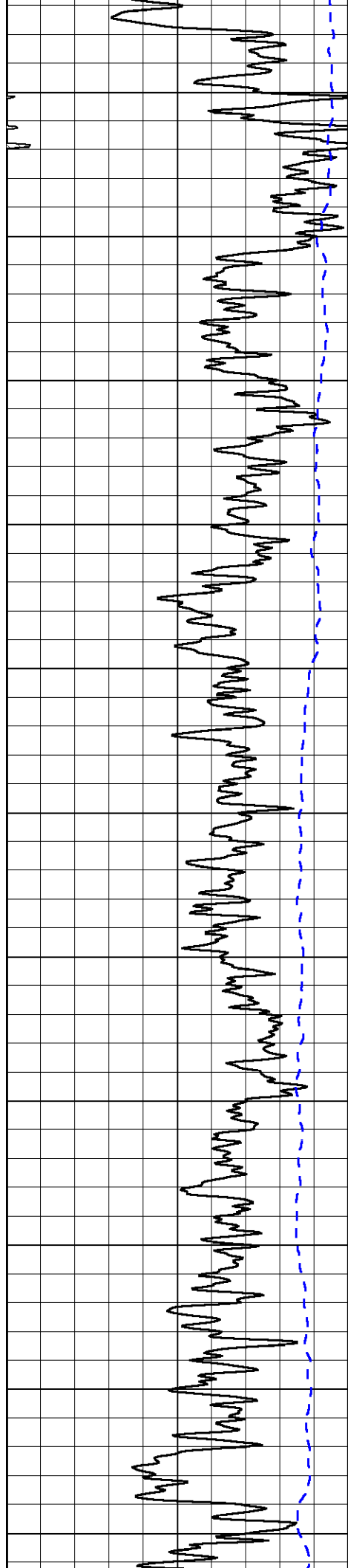
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Charted by: Depth in Feet scaled 1:600

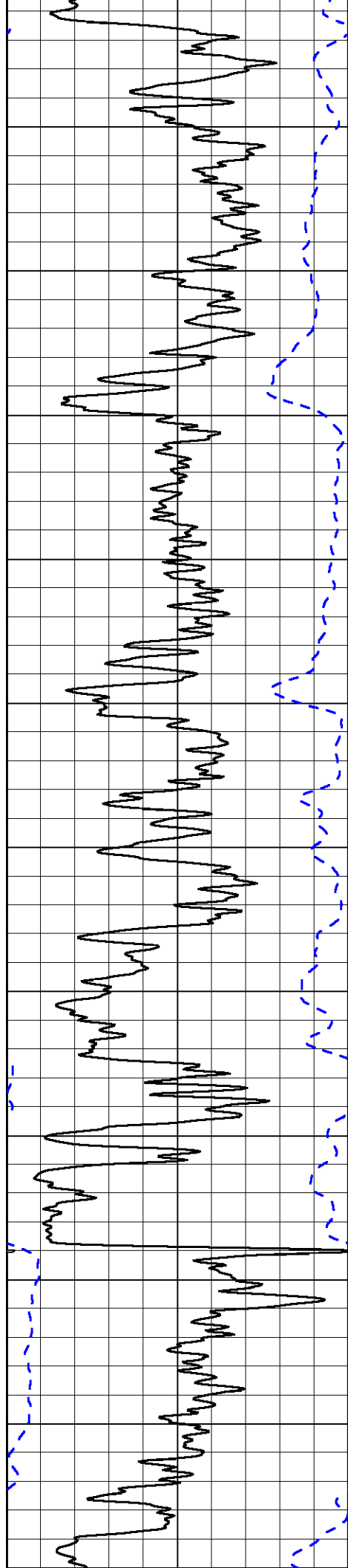
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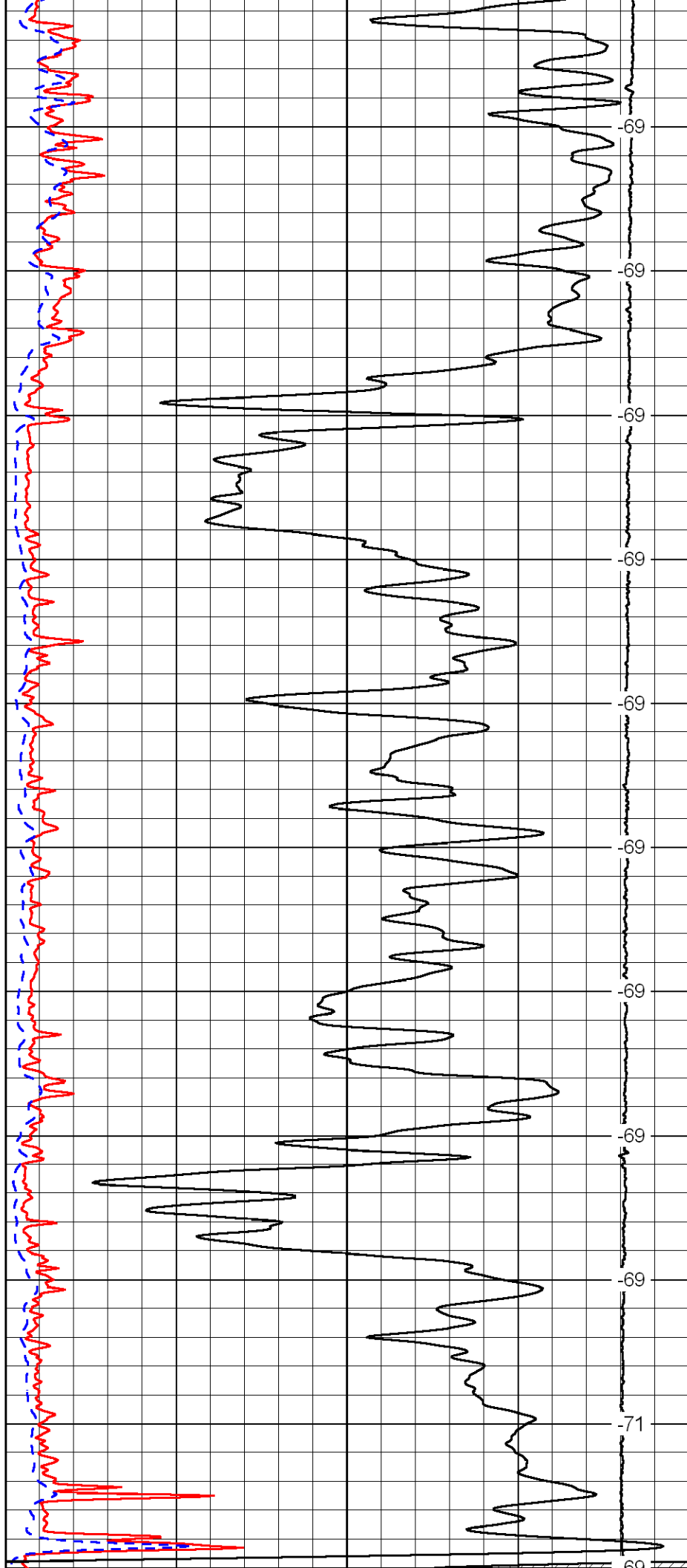
LSPD



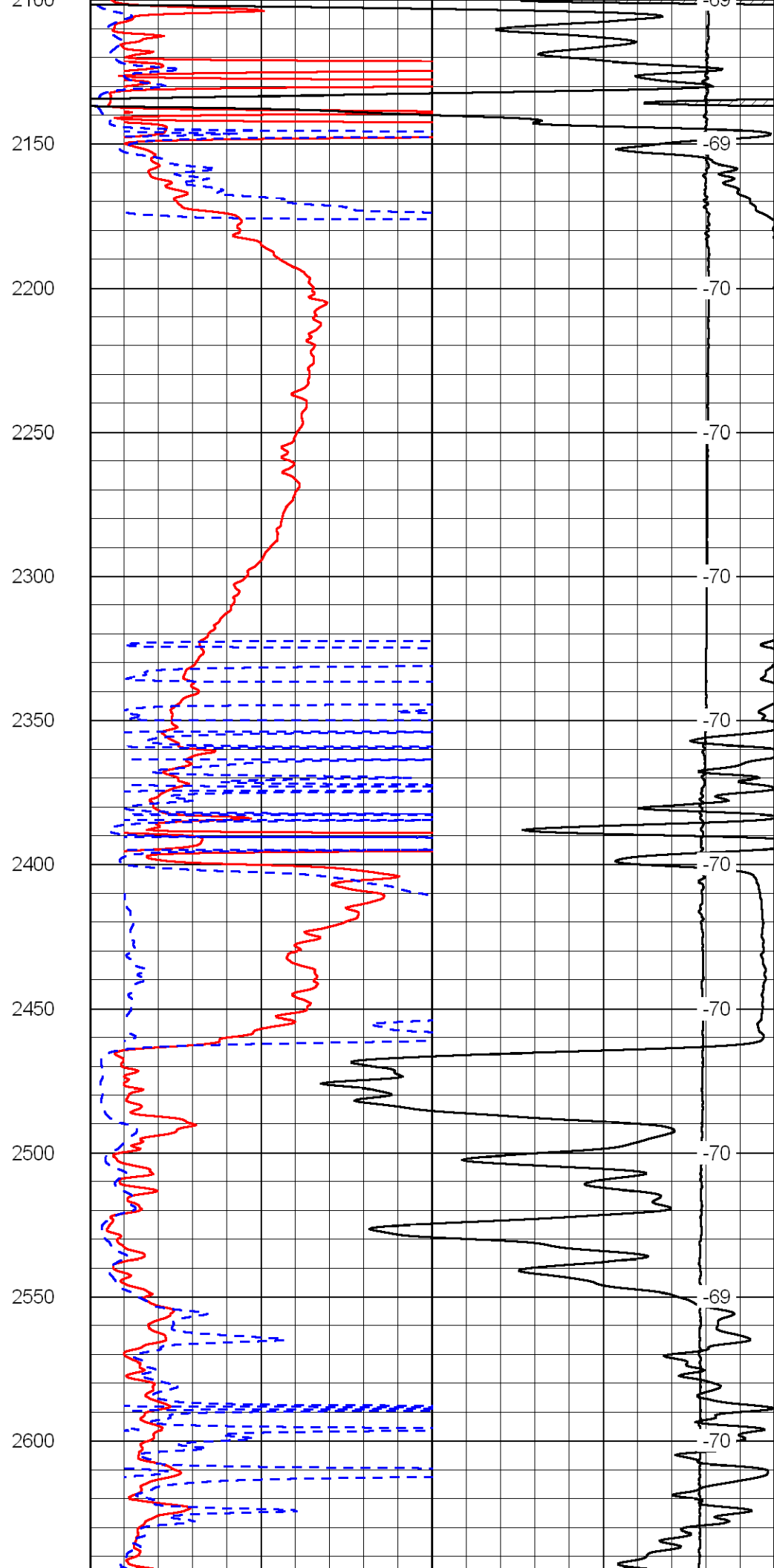
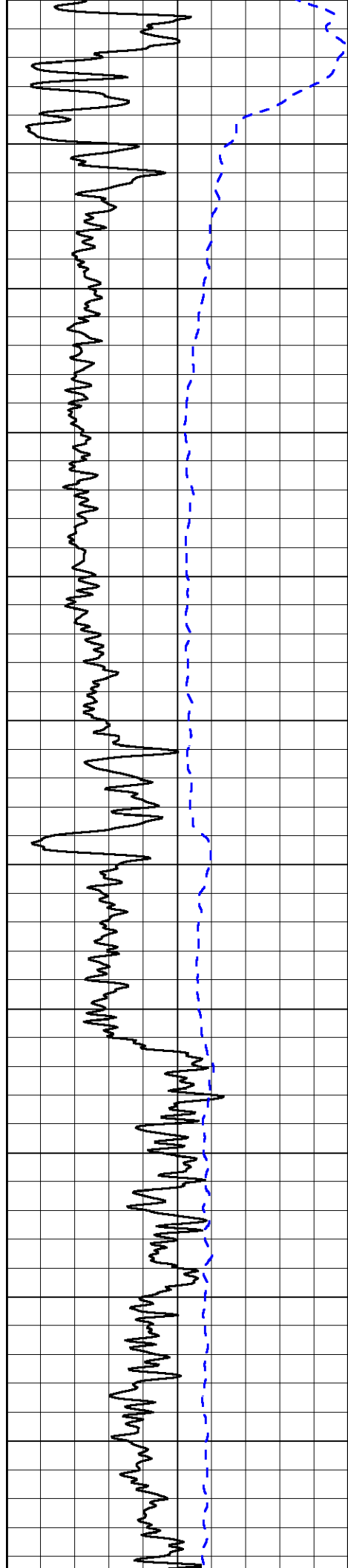


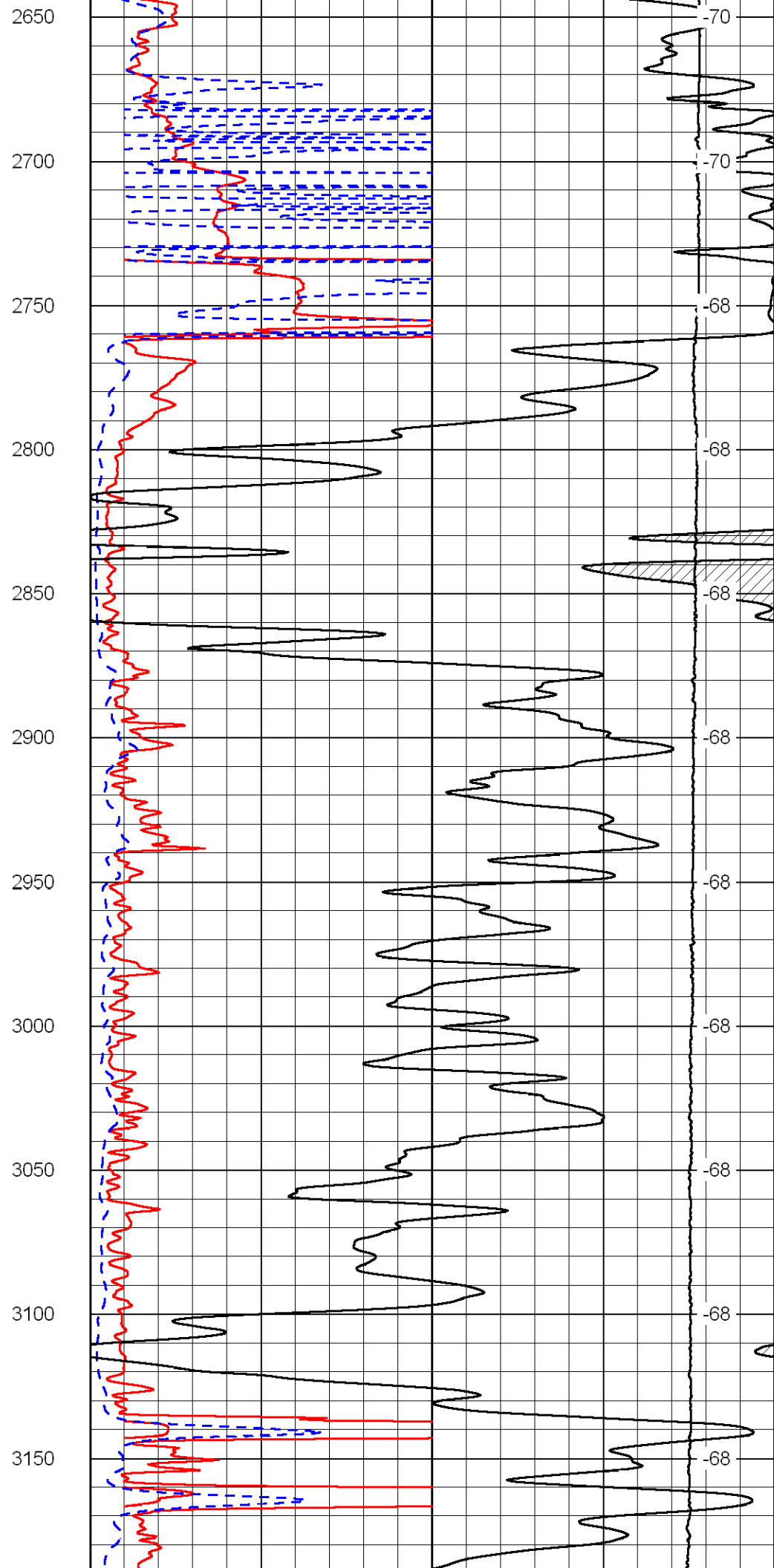
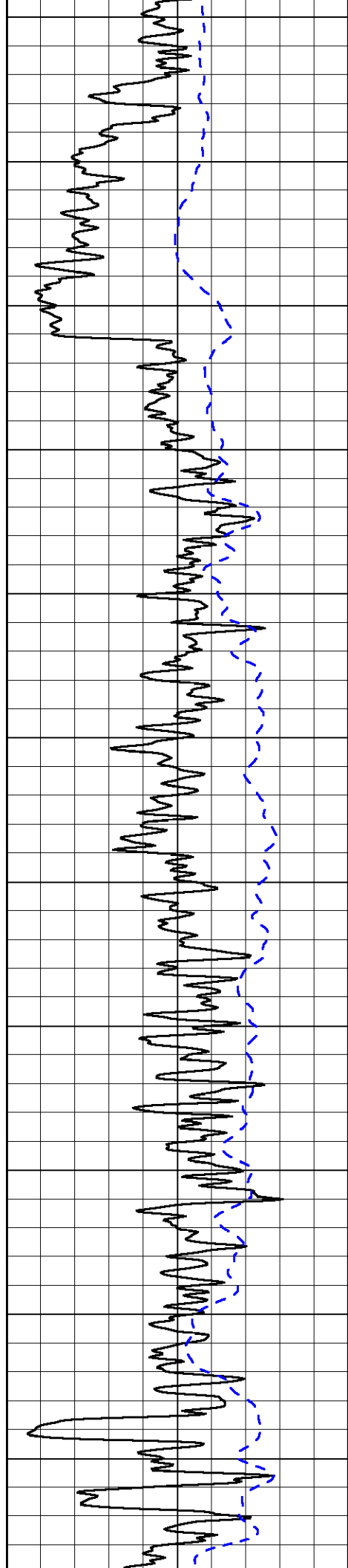


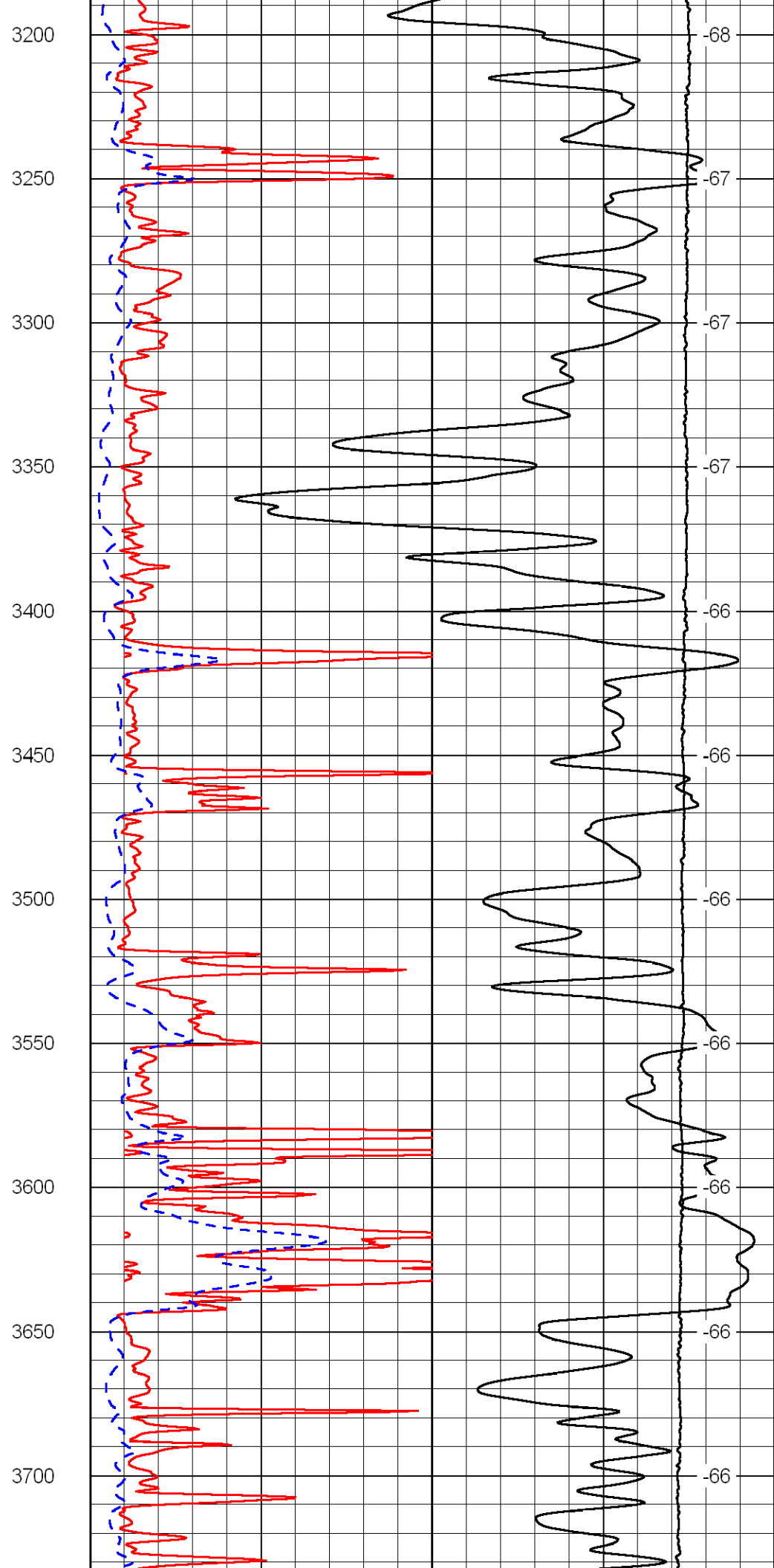
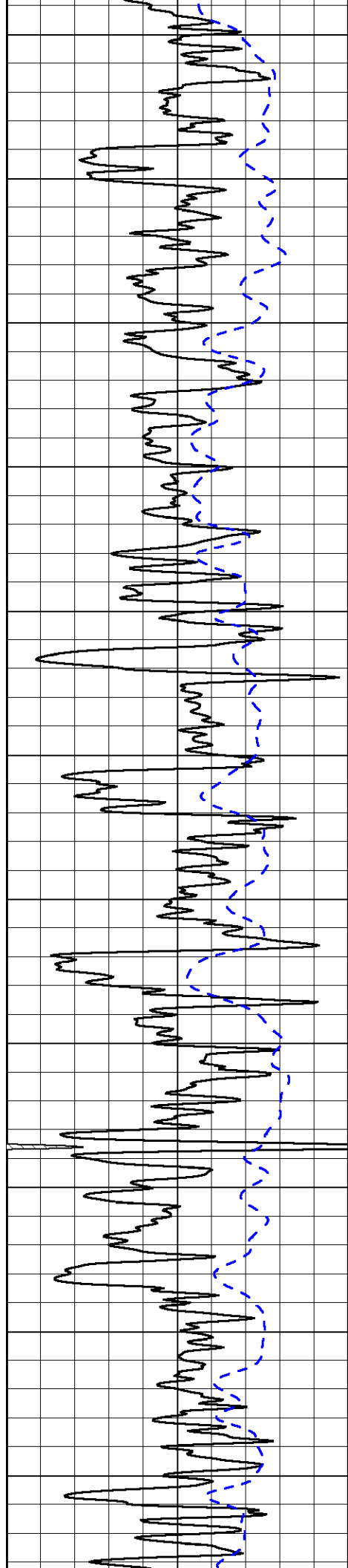
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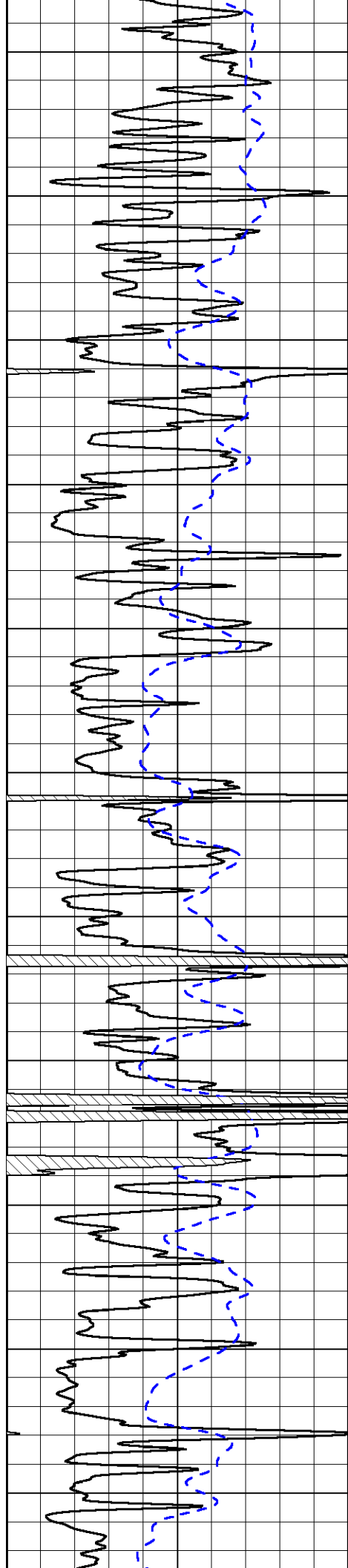


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3750

3800

3850

3900

3950

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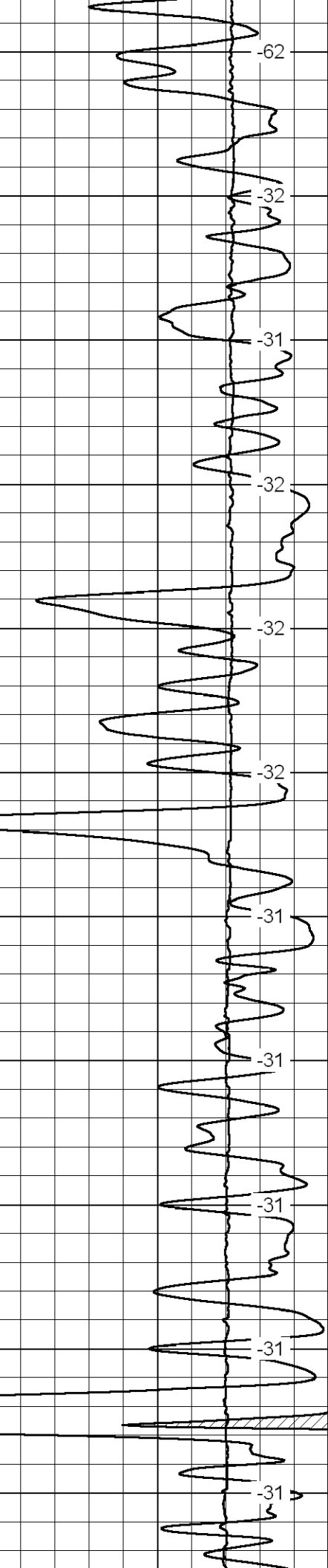
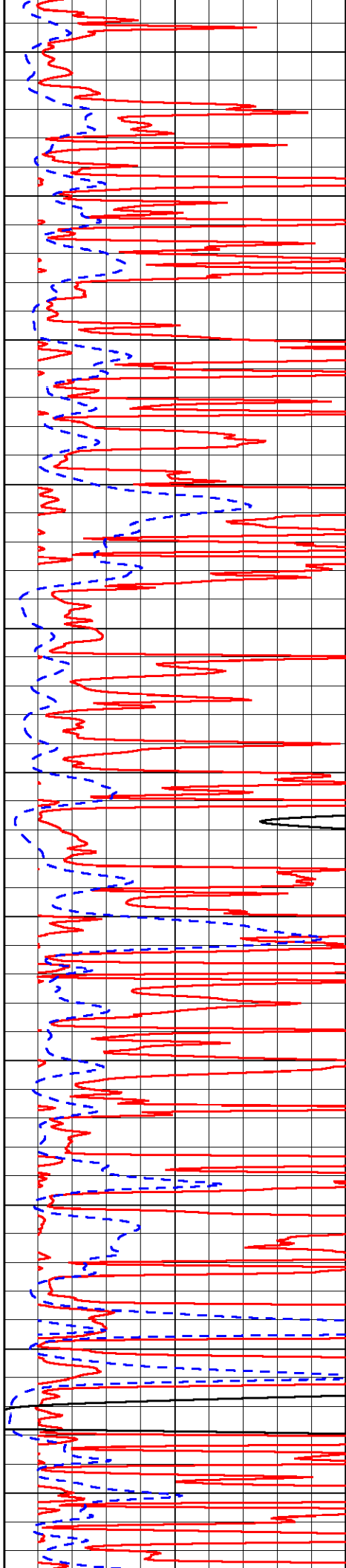
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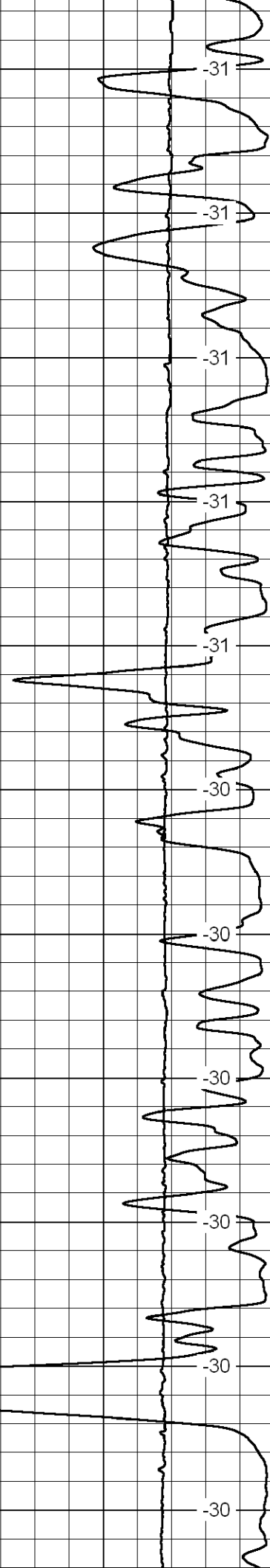
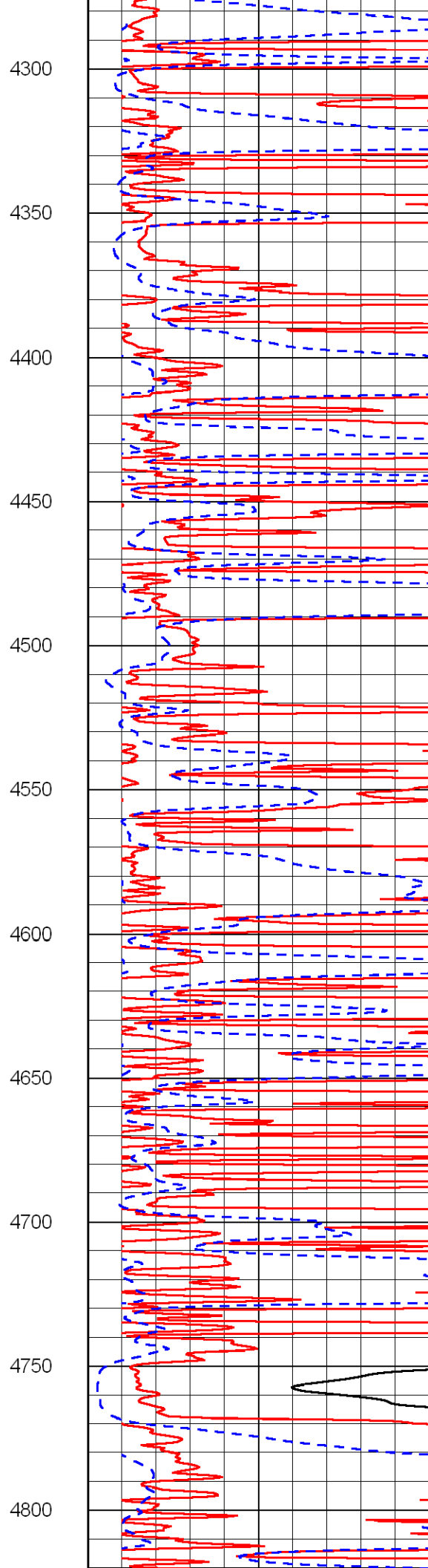
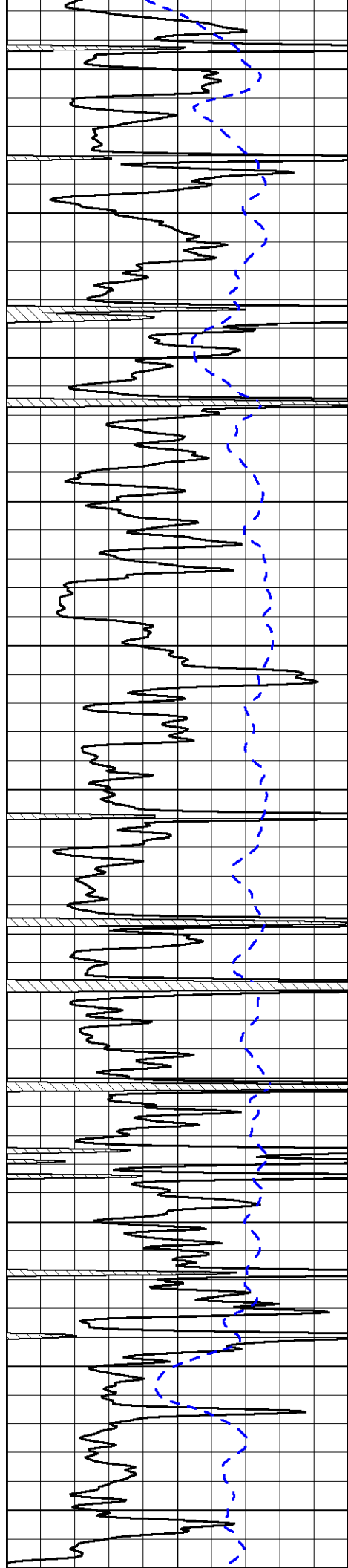
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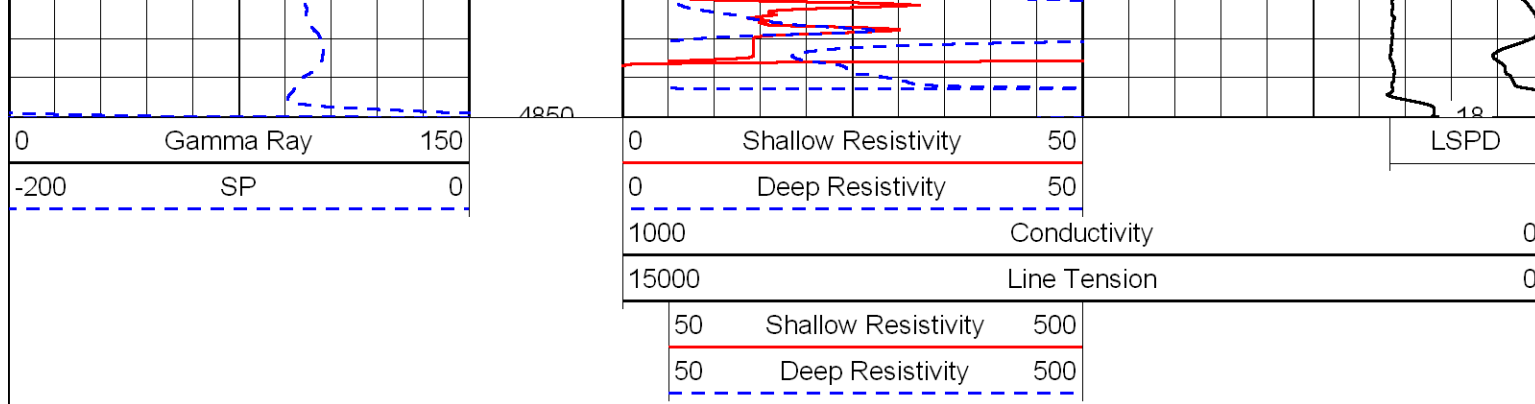
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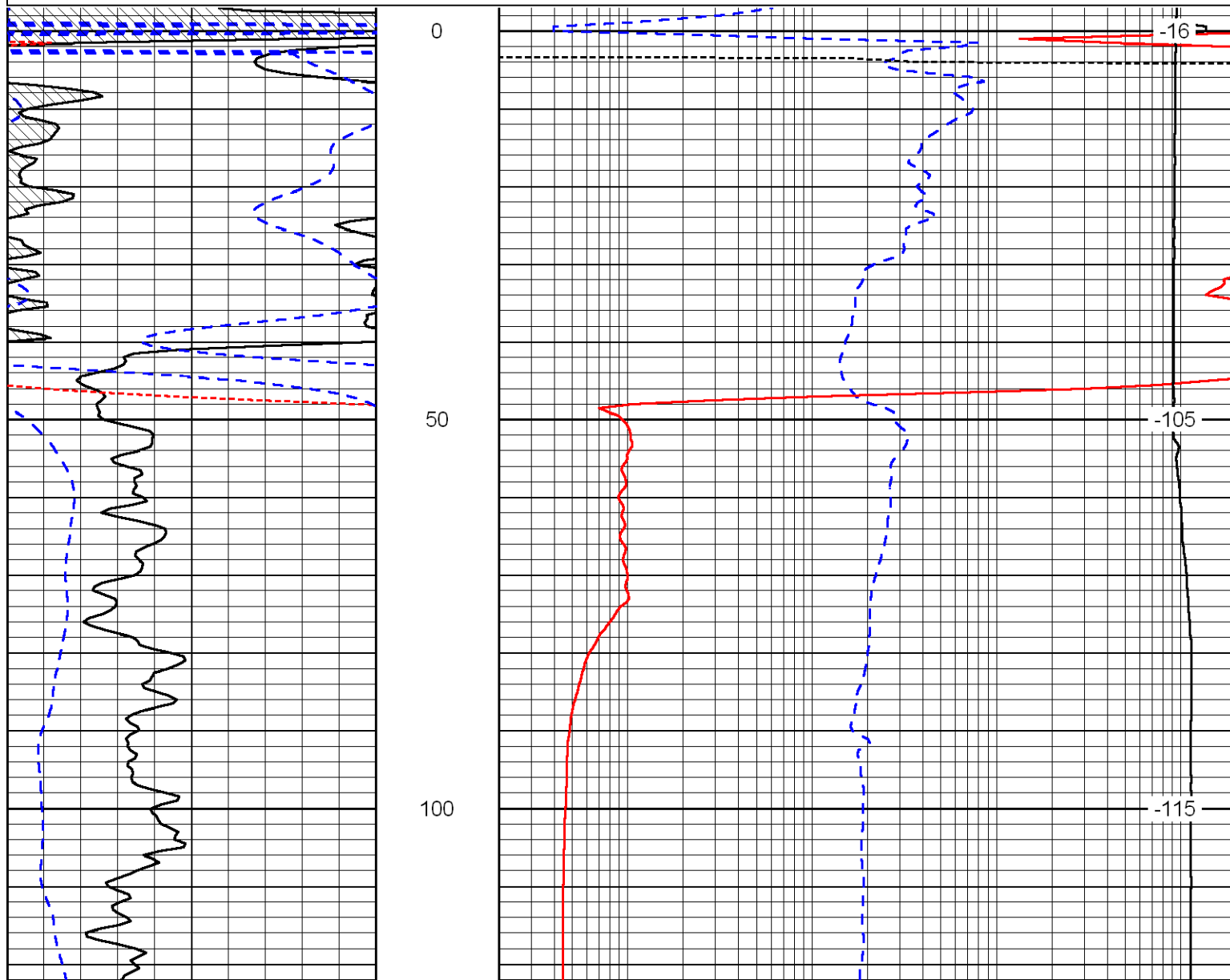
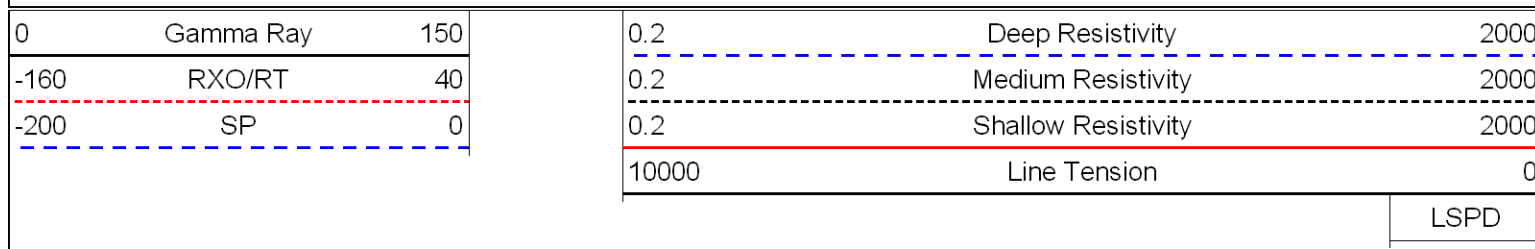
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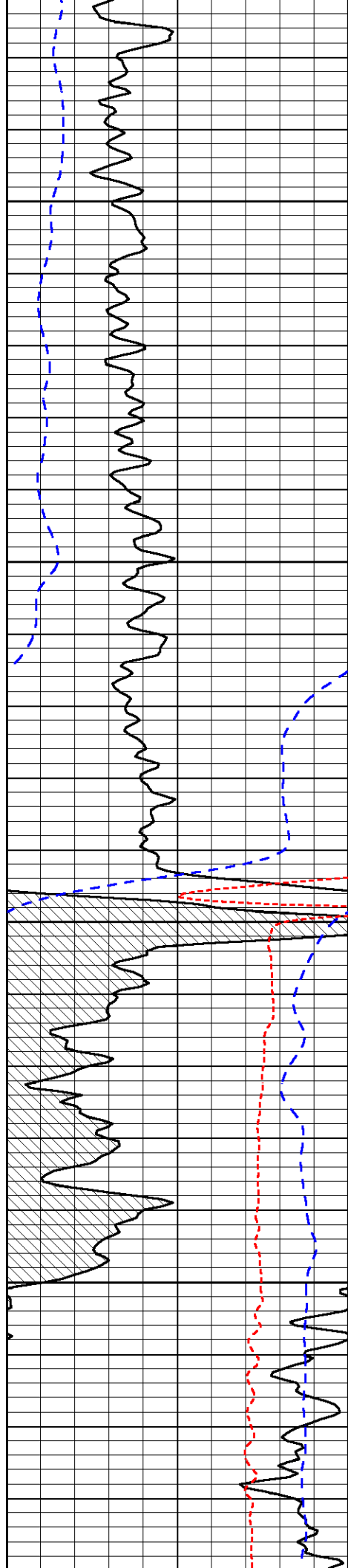






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 Charted by: Depth in Feet scaled 1:240





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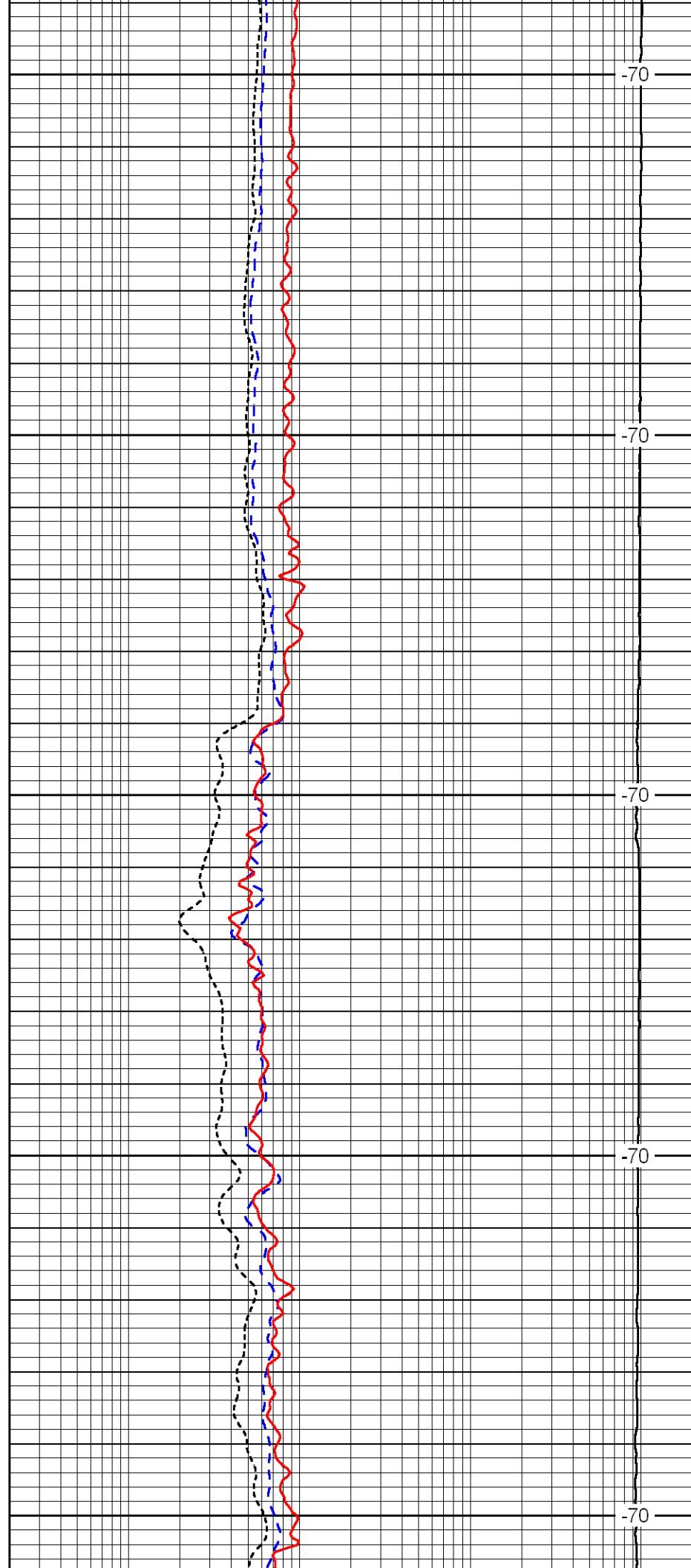
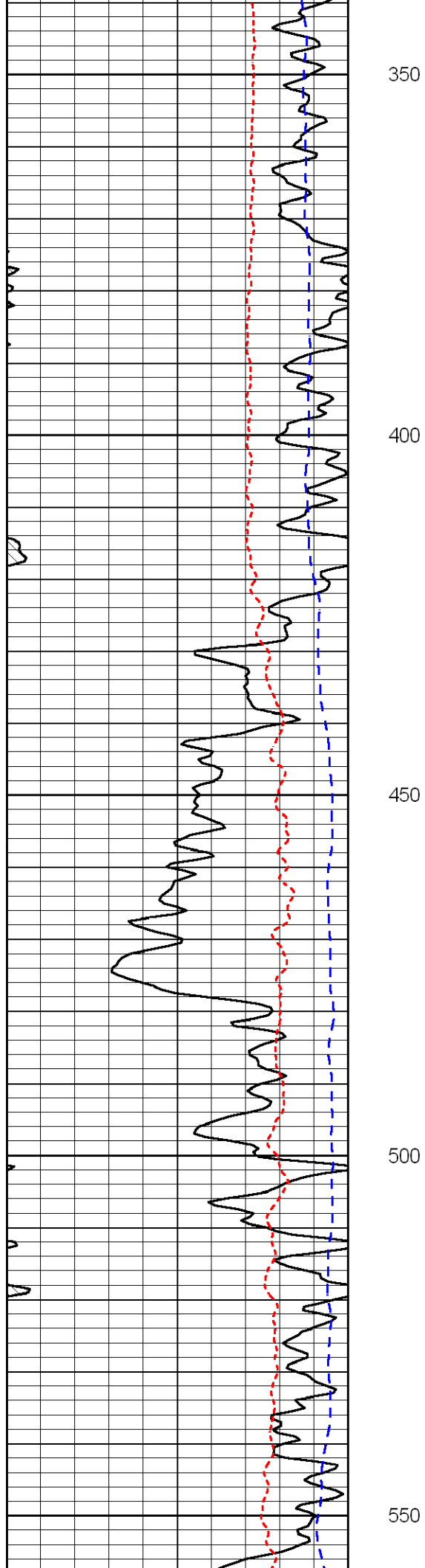
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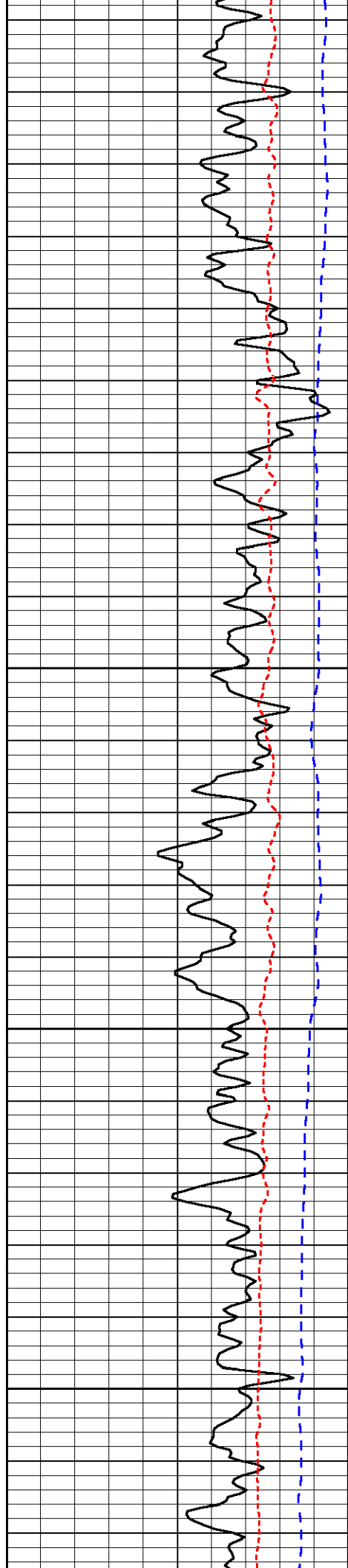
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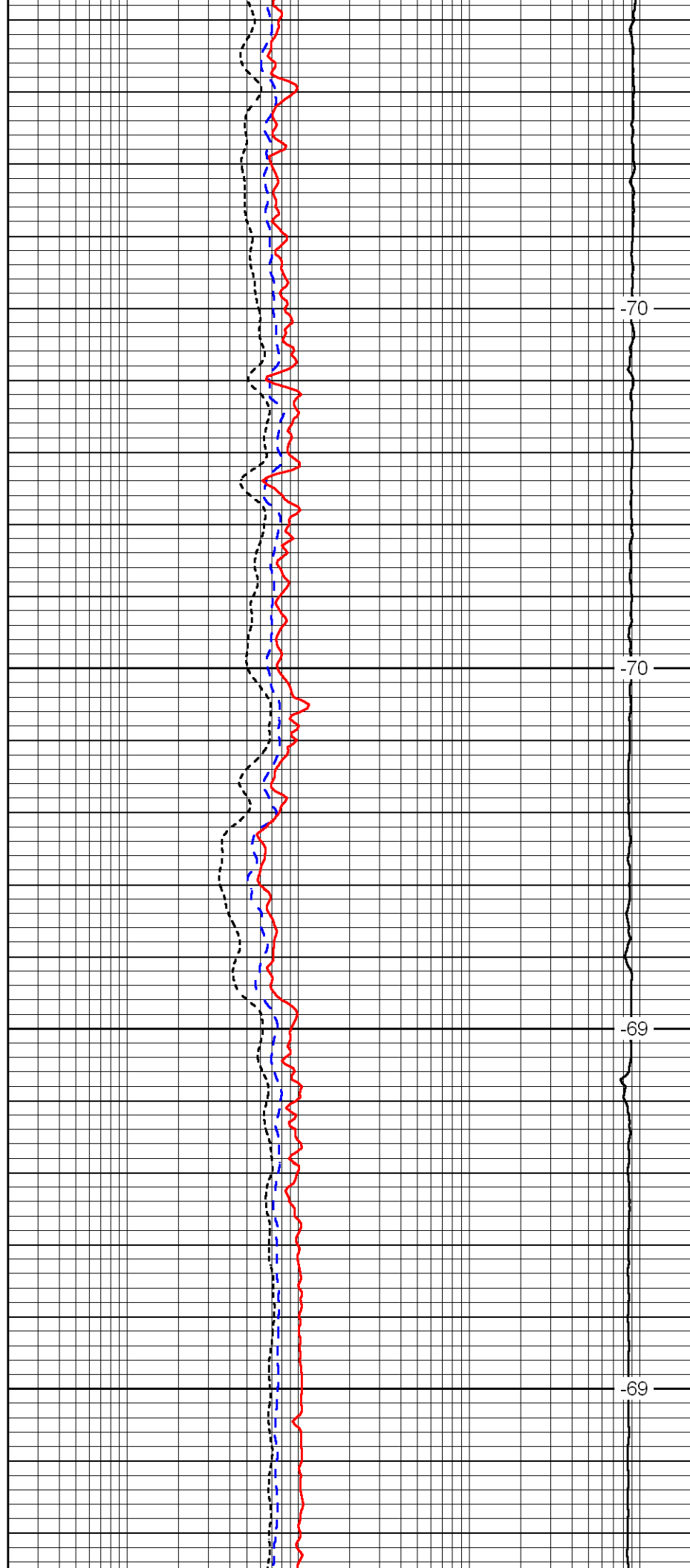


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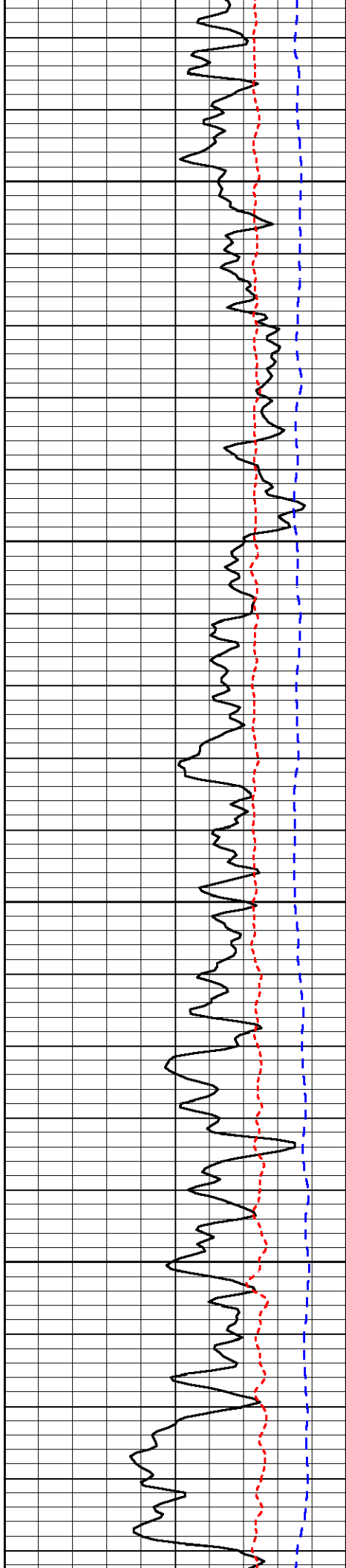


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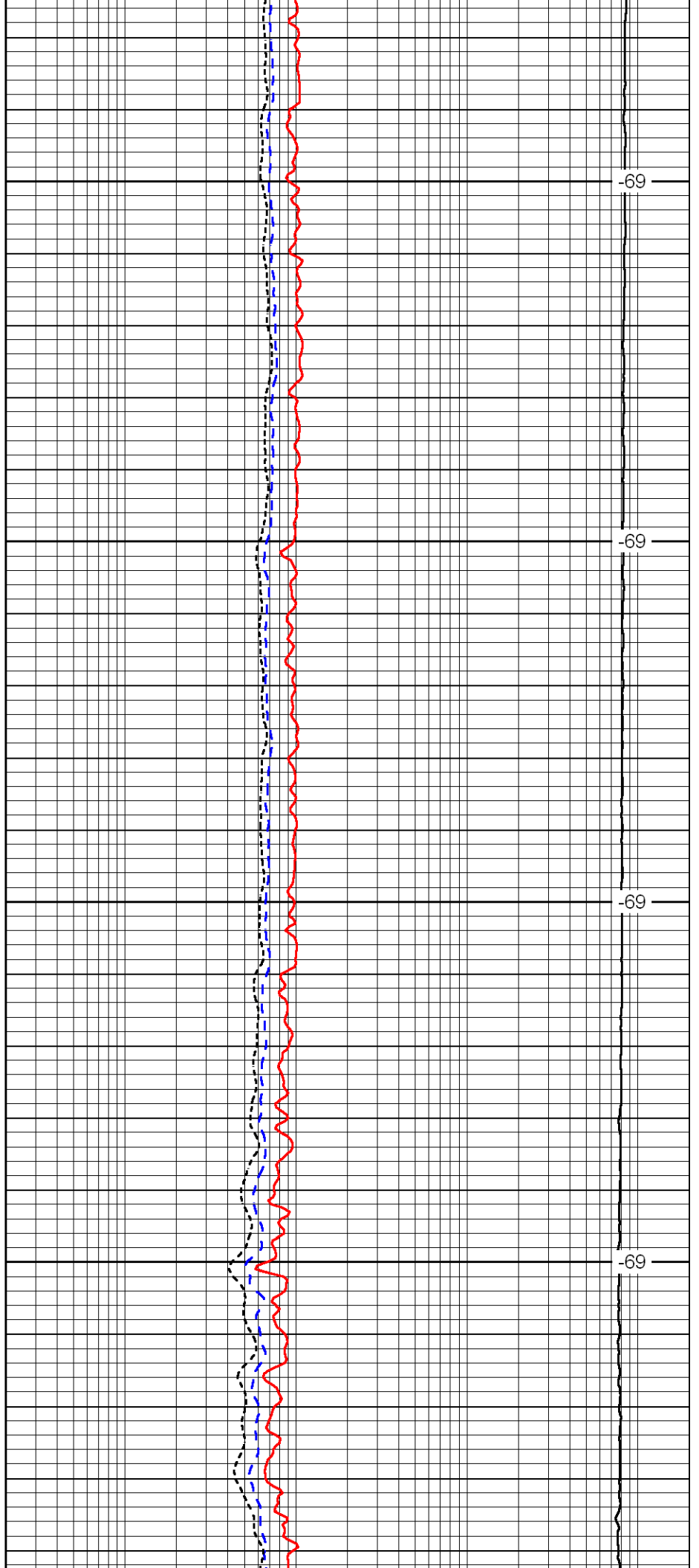


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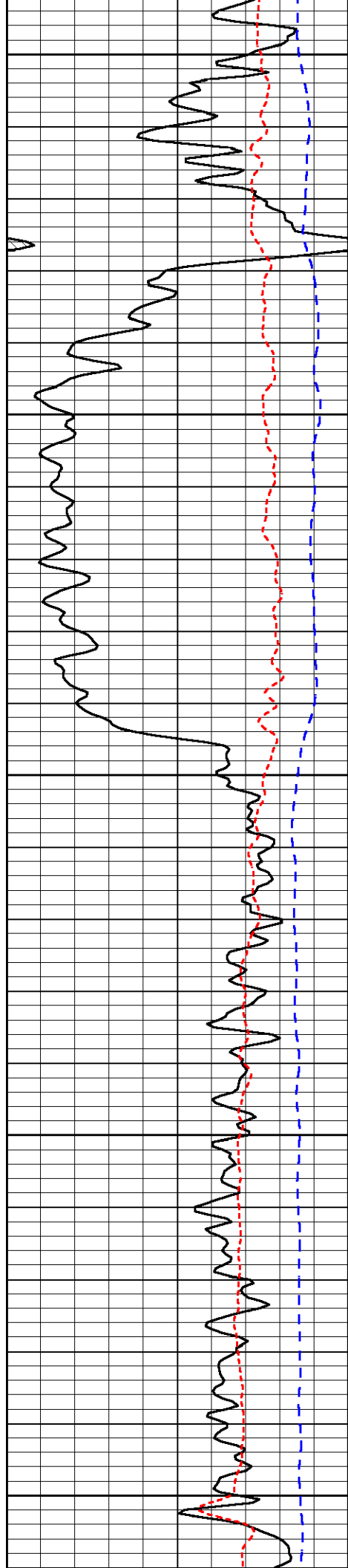


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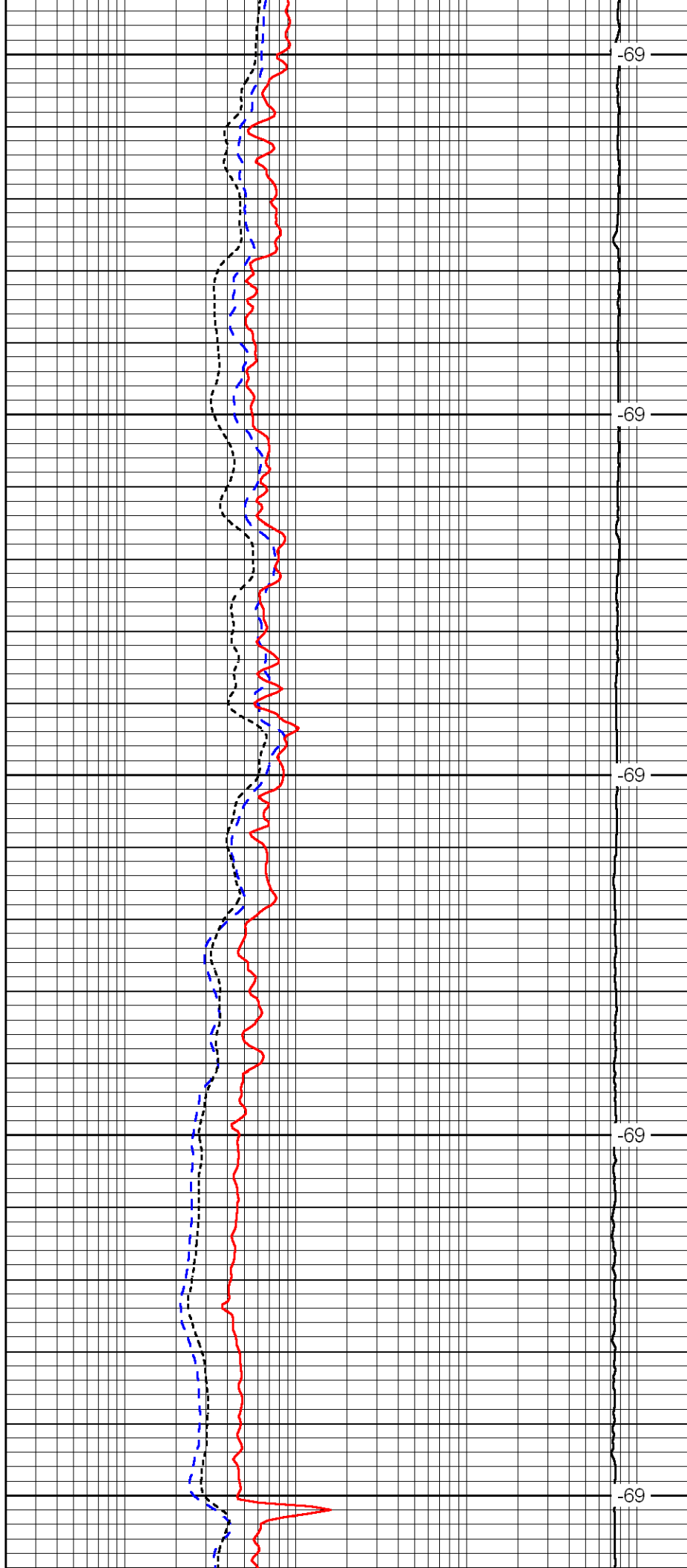
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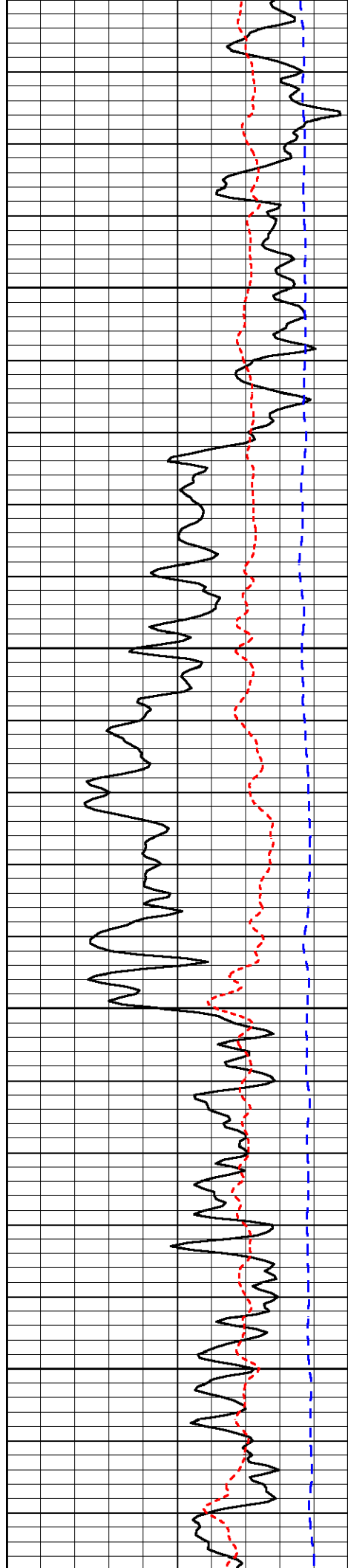
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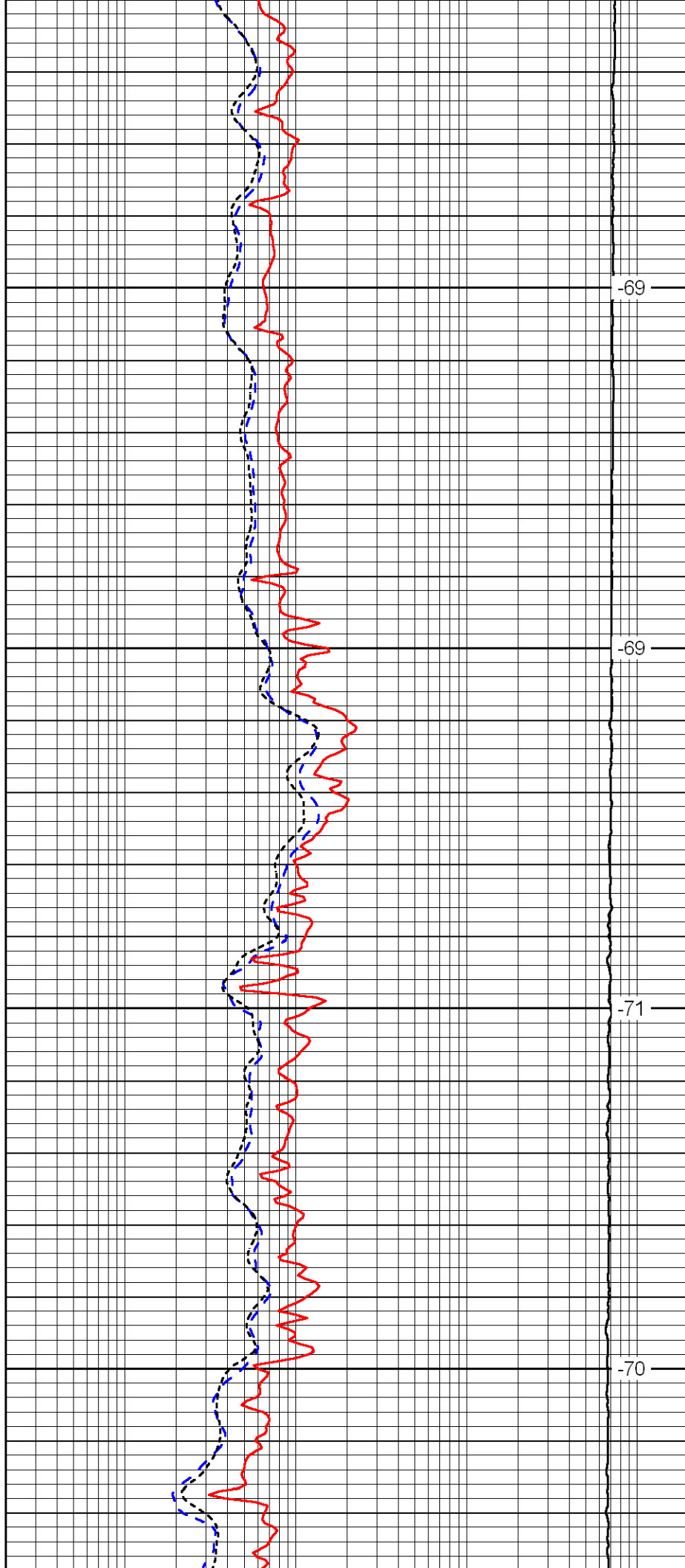
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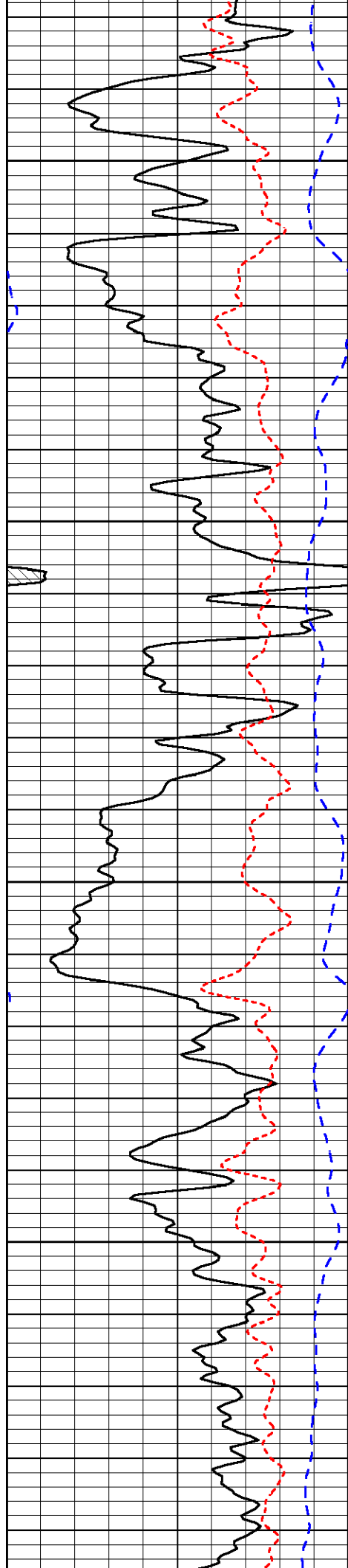
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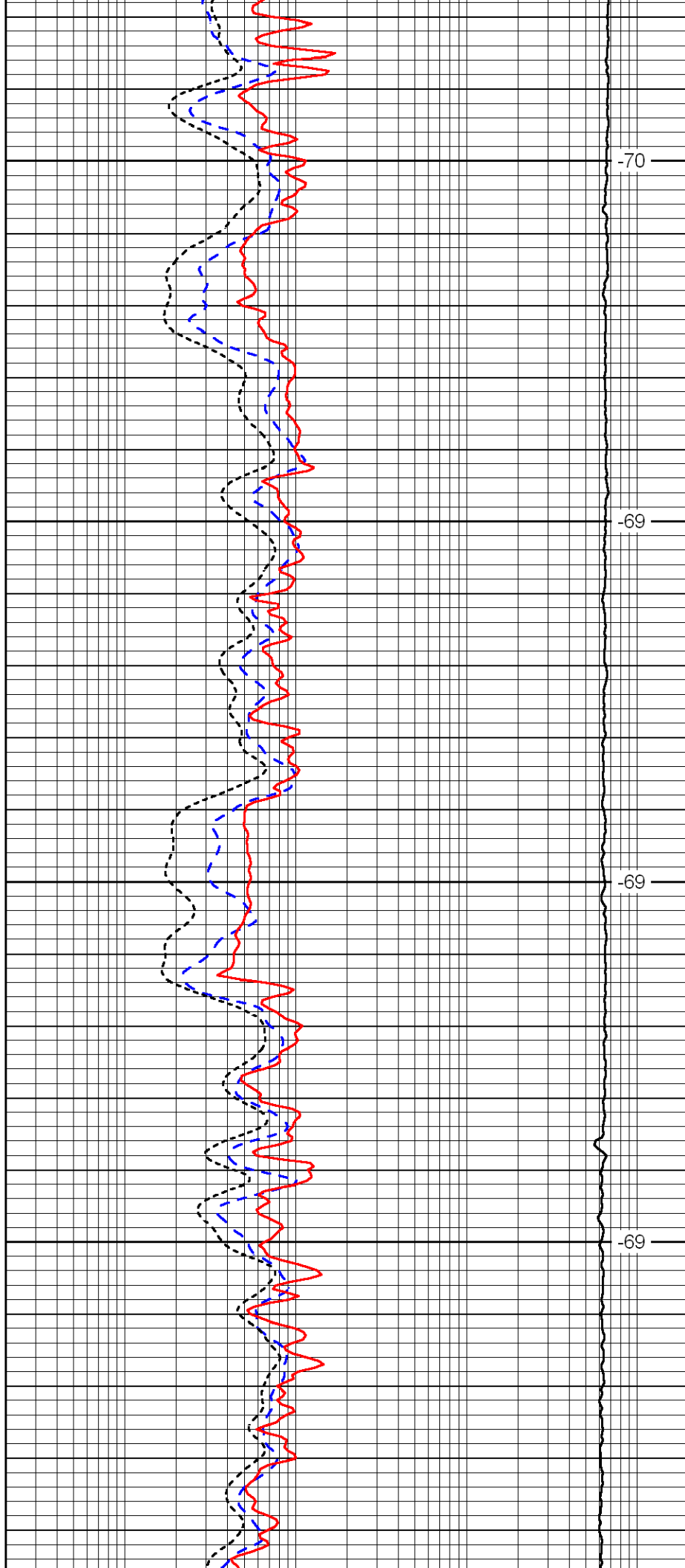


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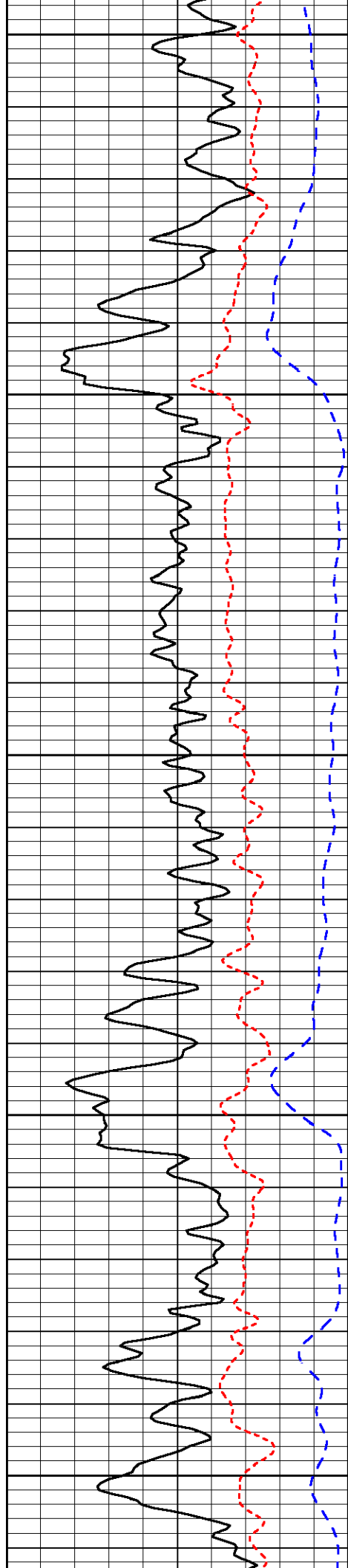


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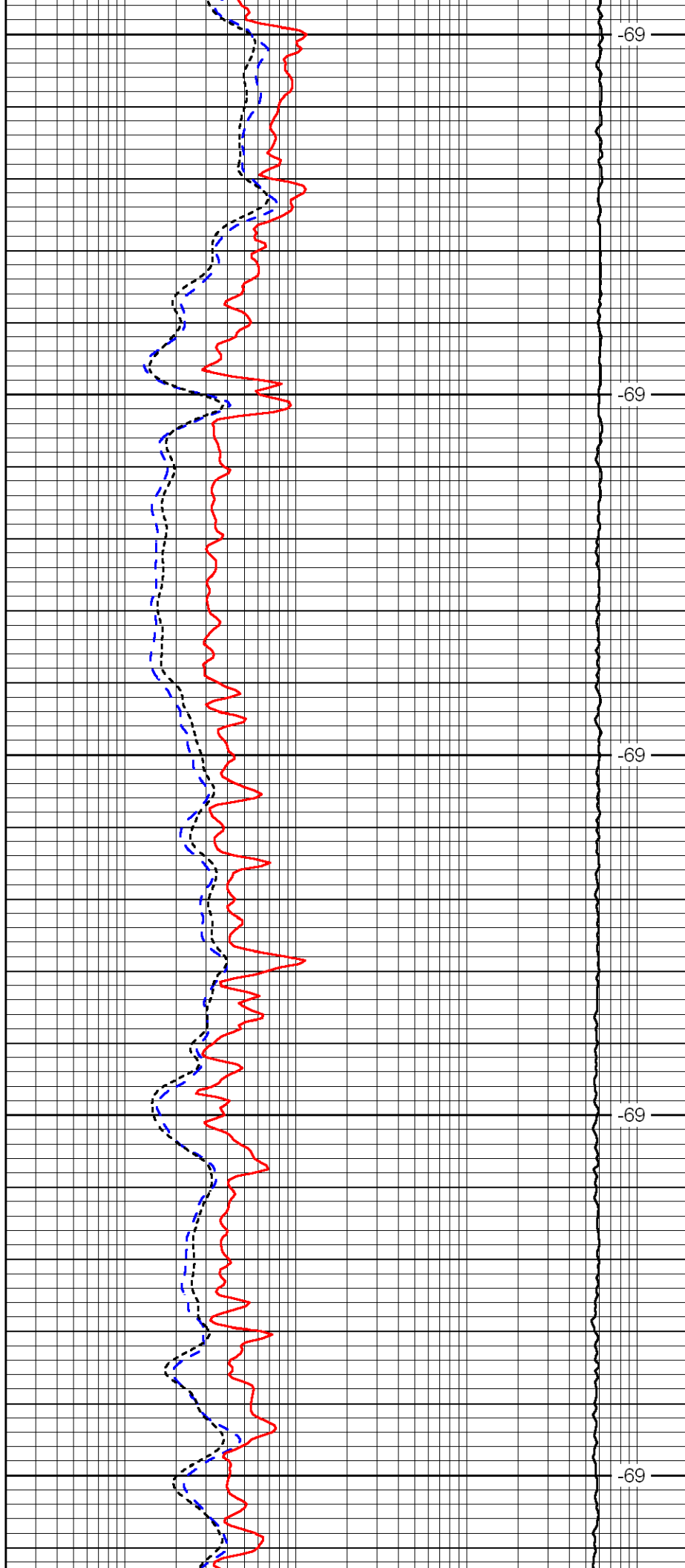
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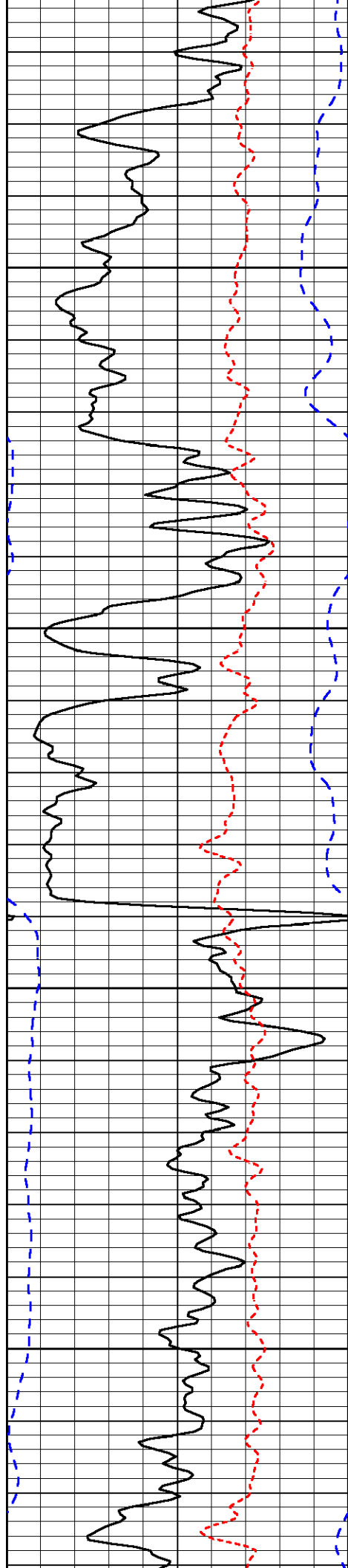
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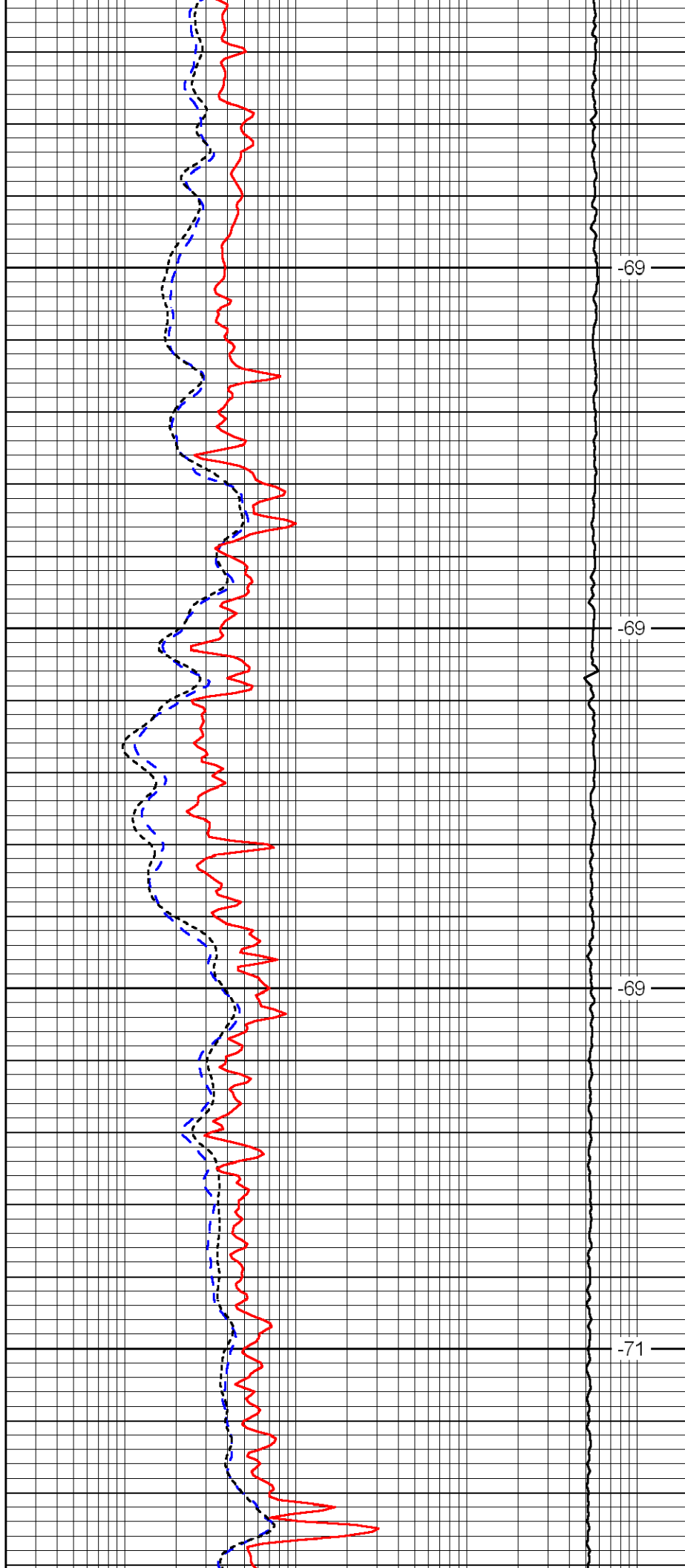


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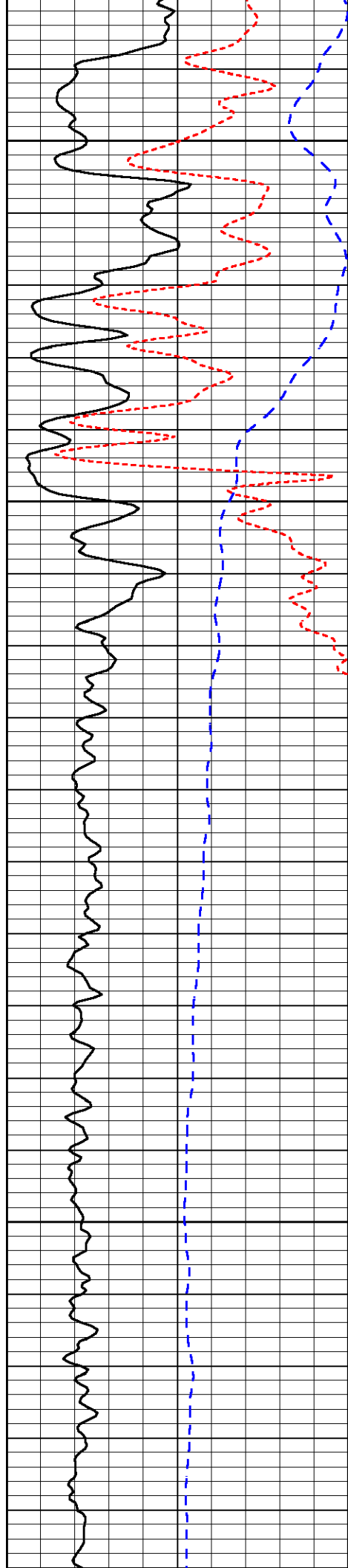


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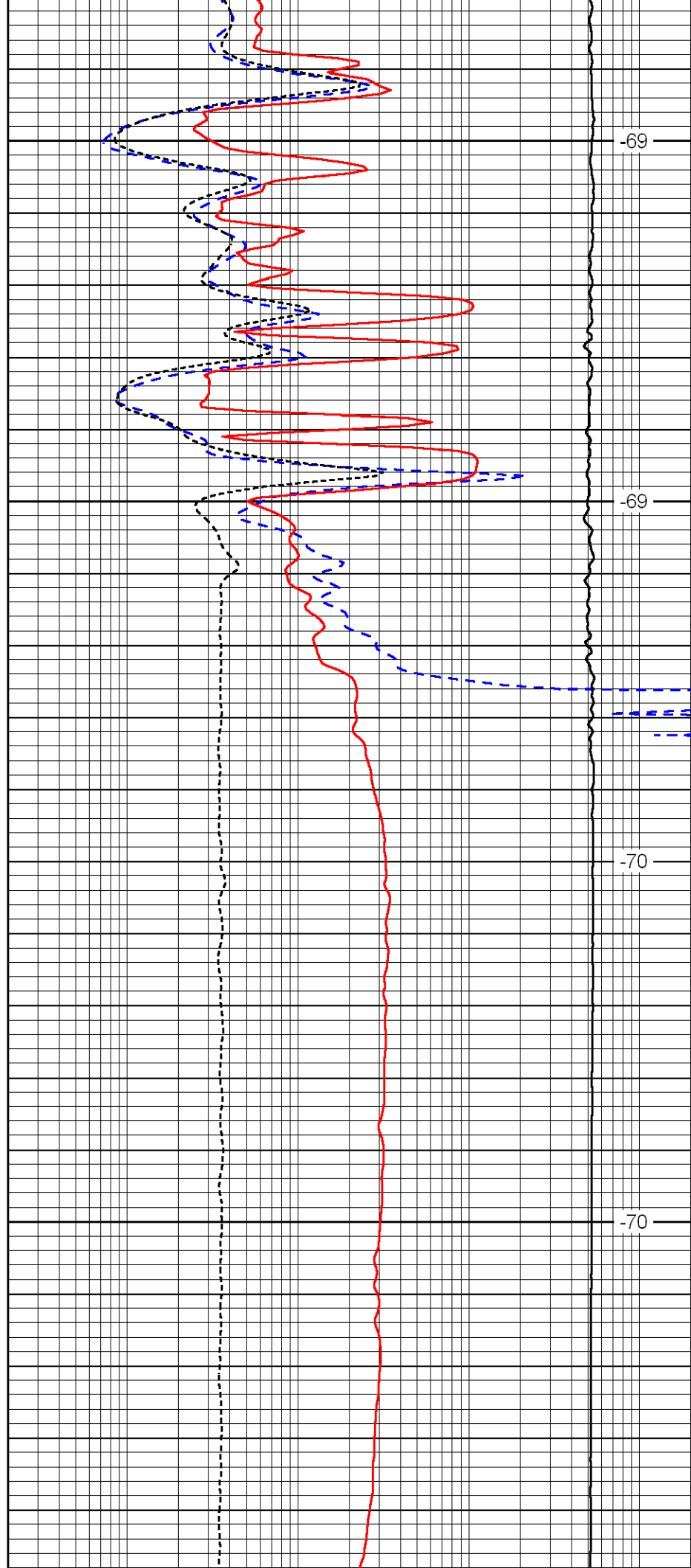
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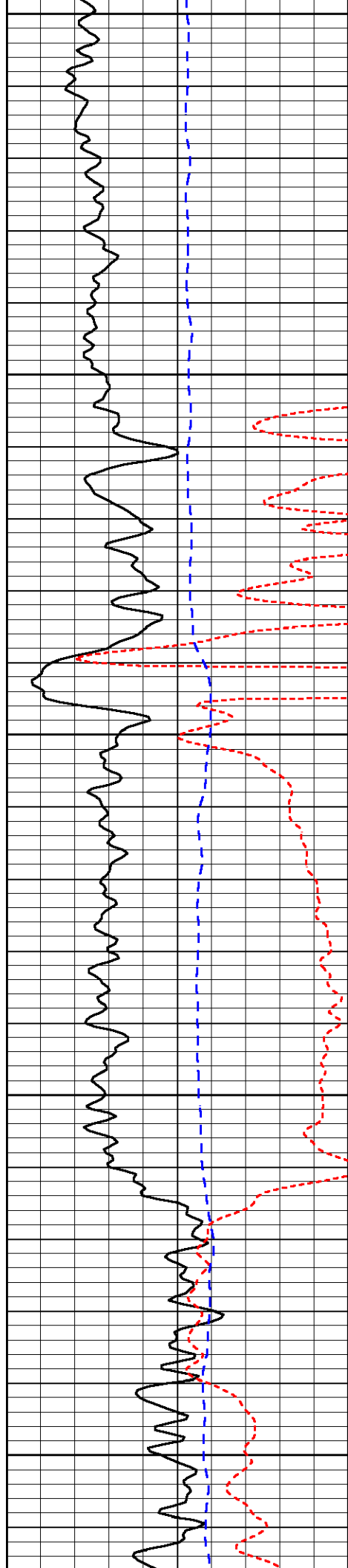
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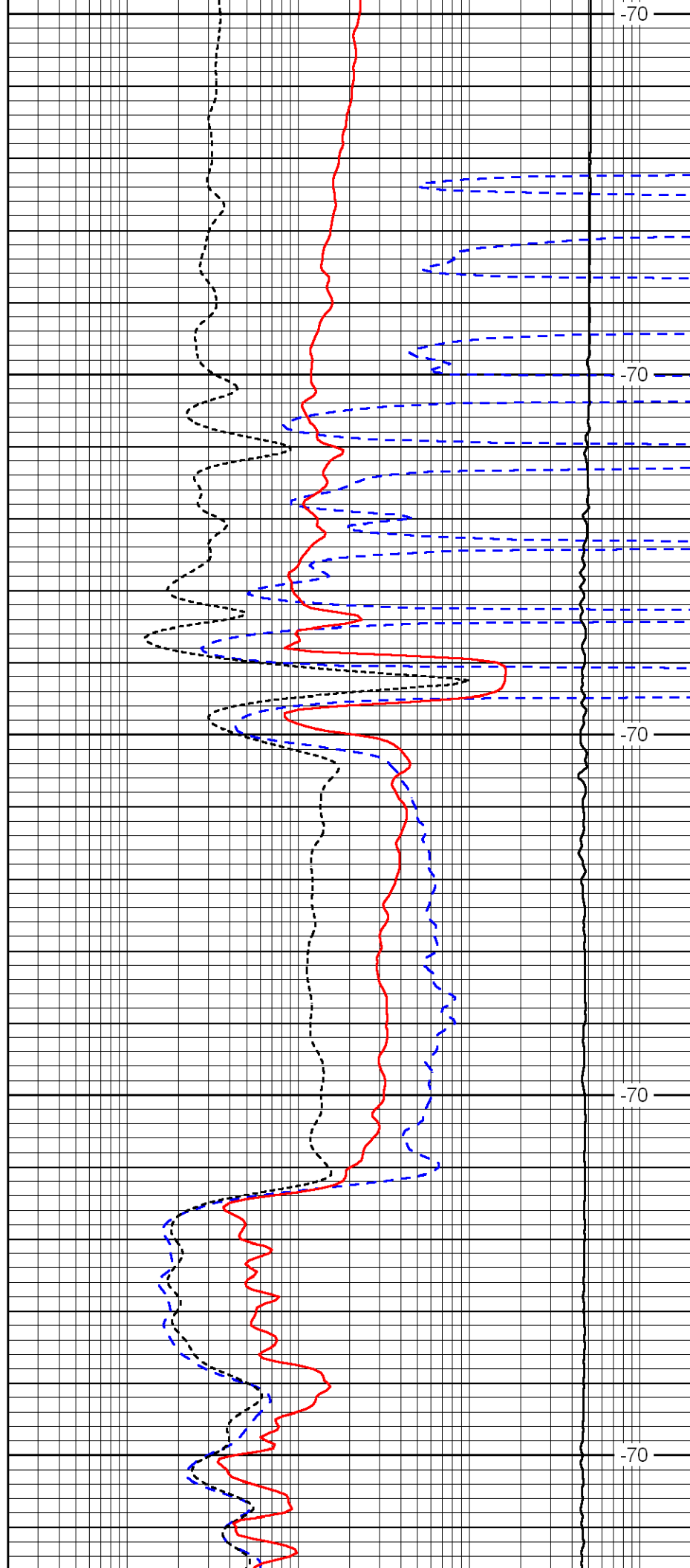
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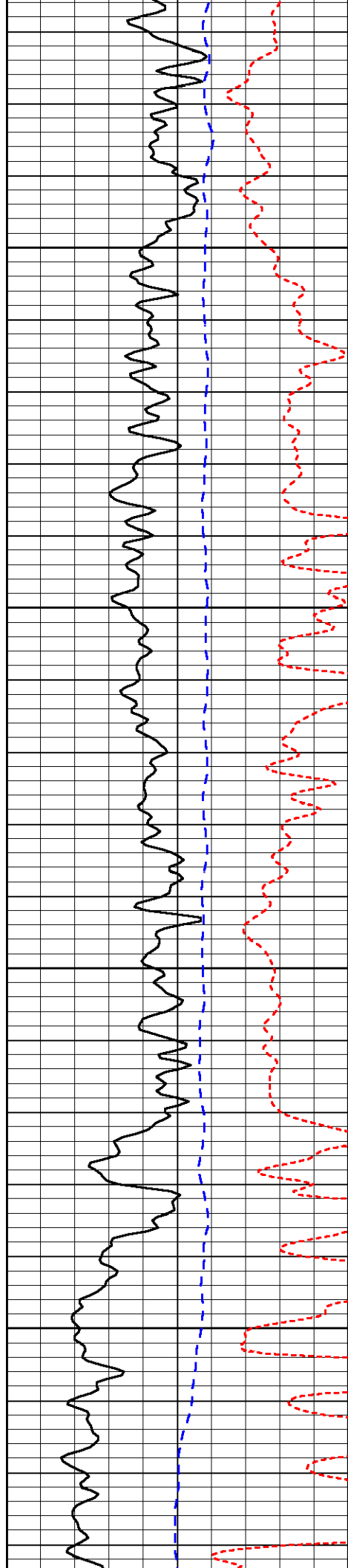
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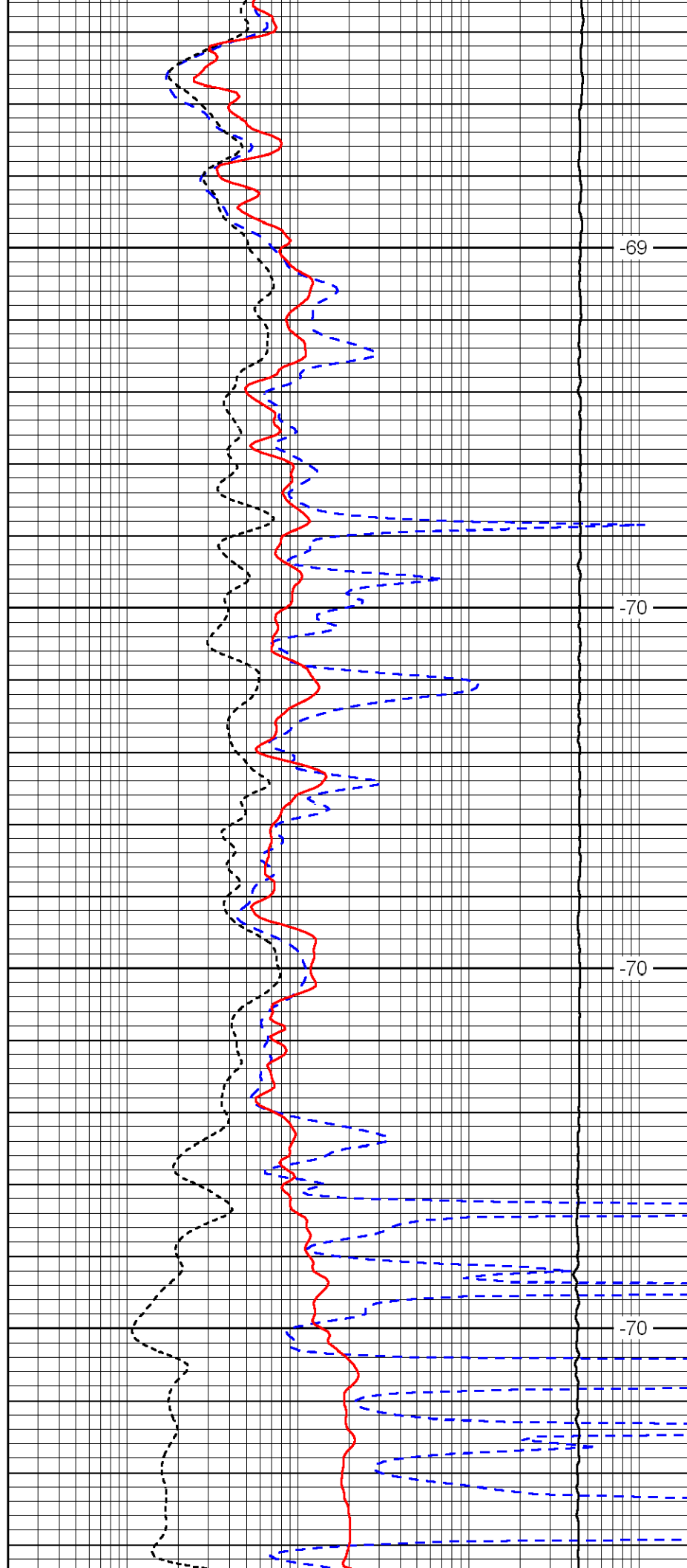


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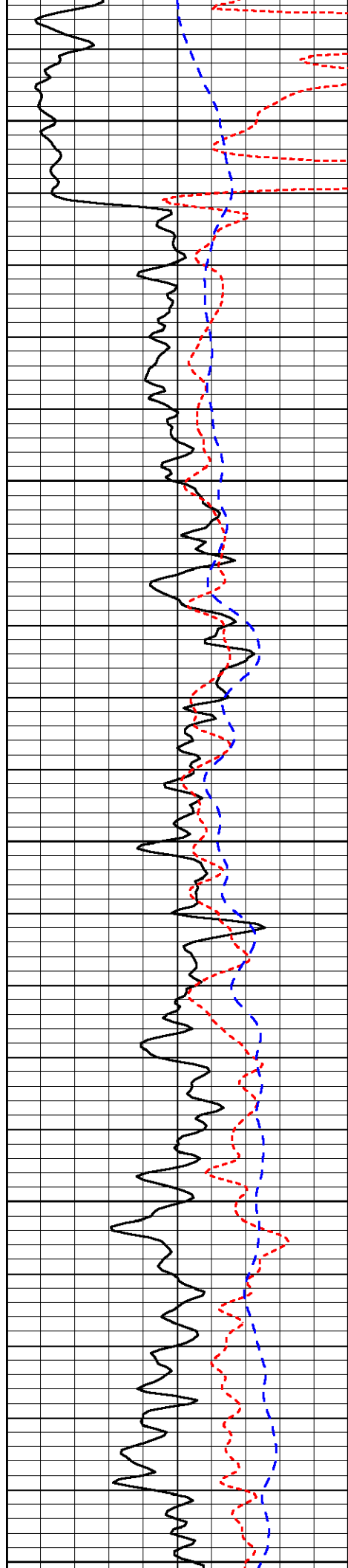


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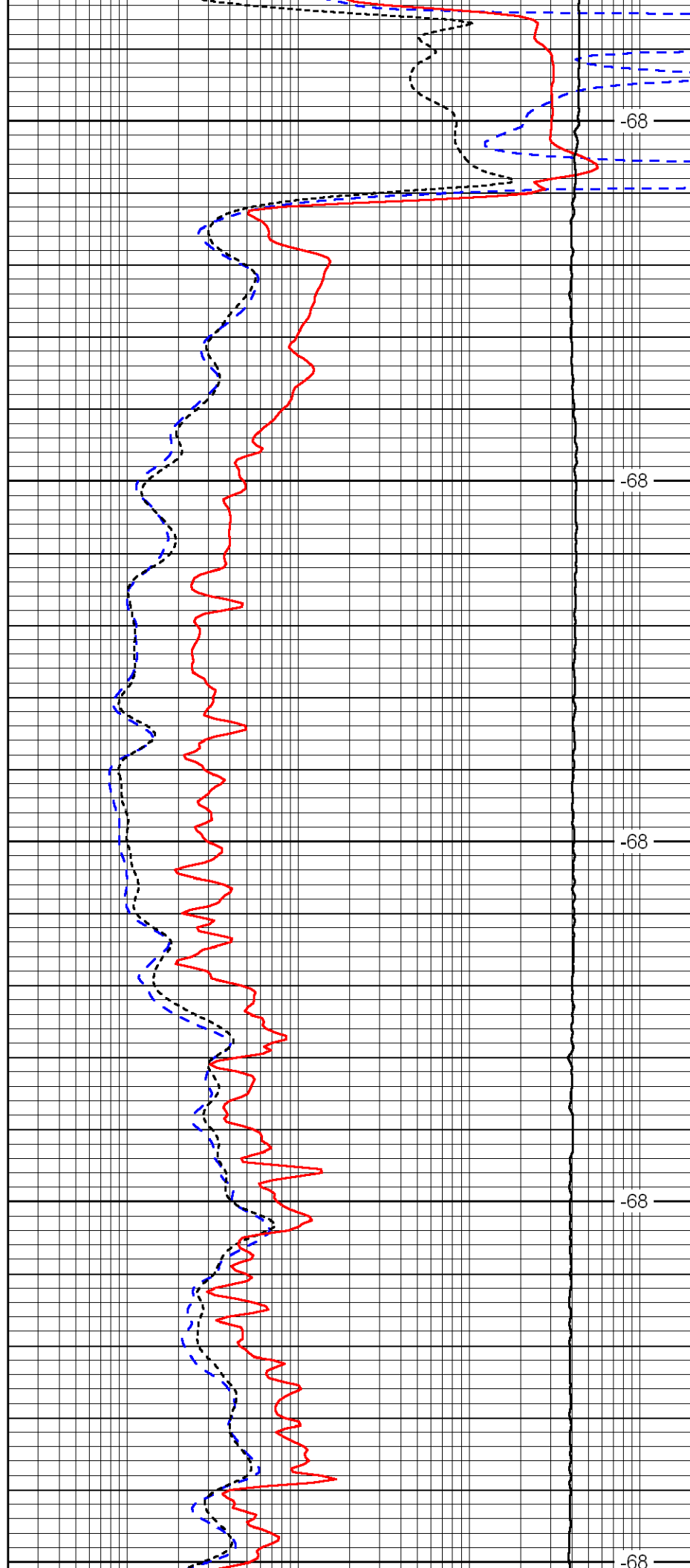
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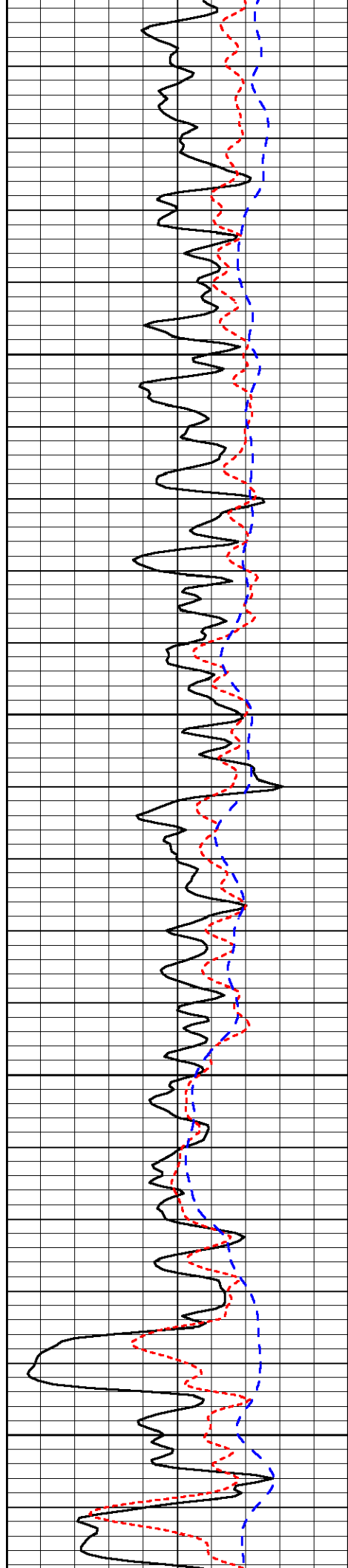
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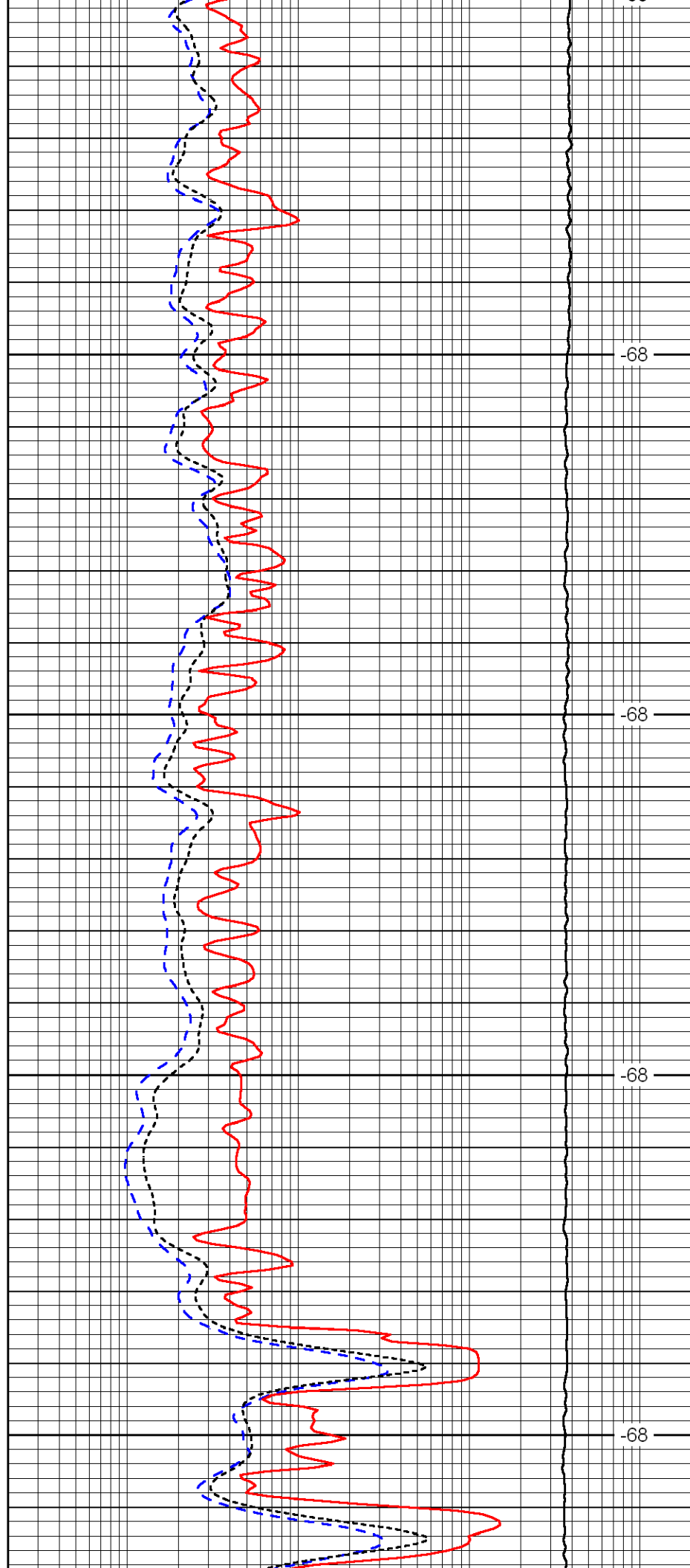


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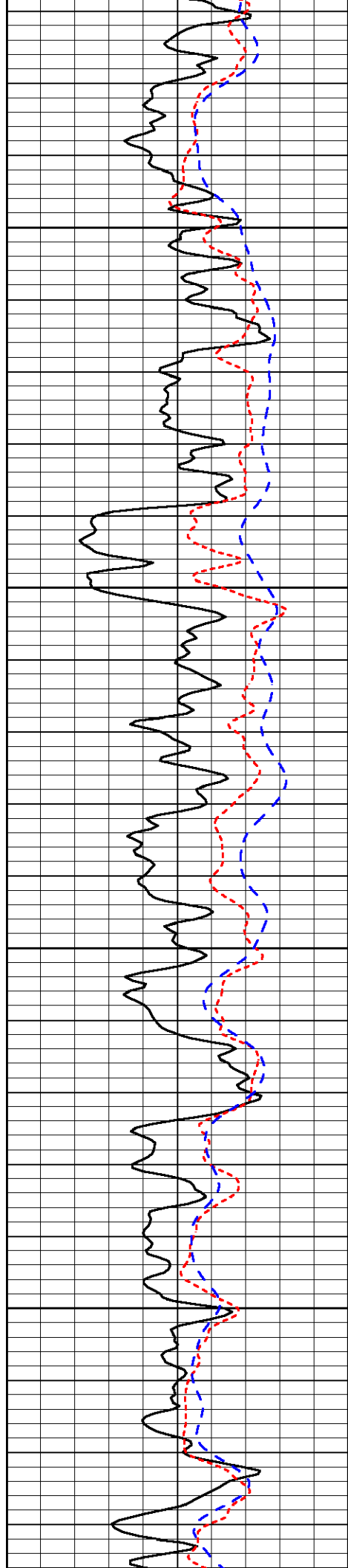


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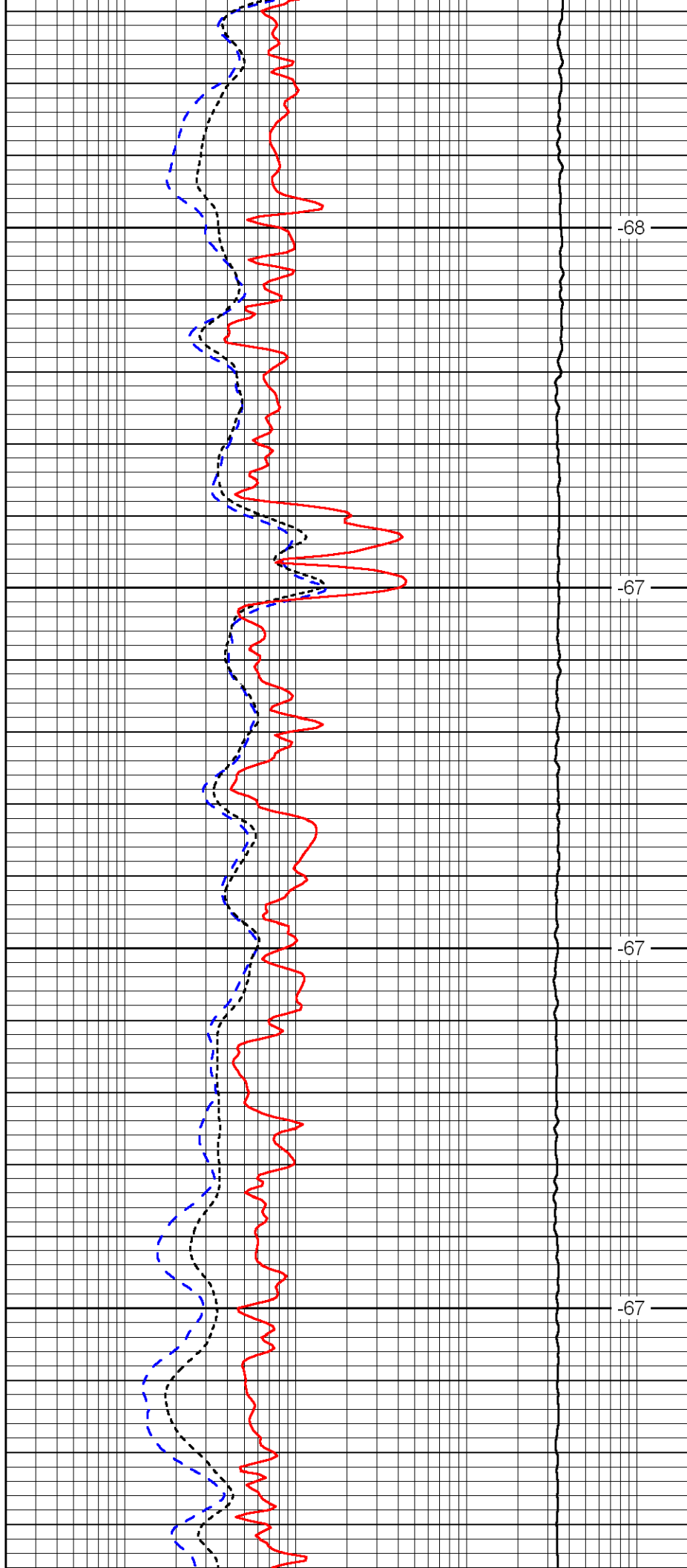


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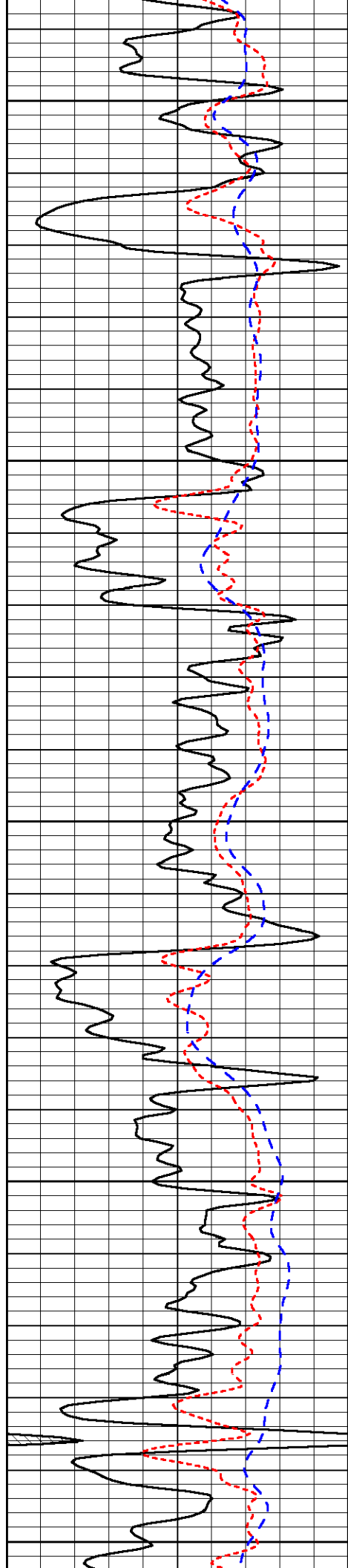


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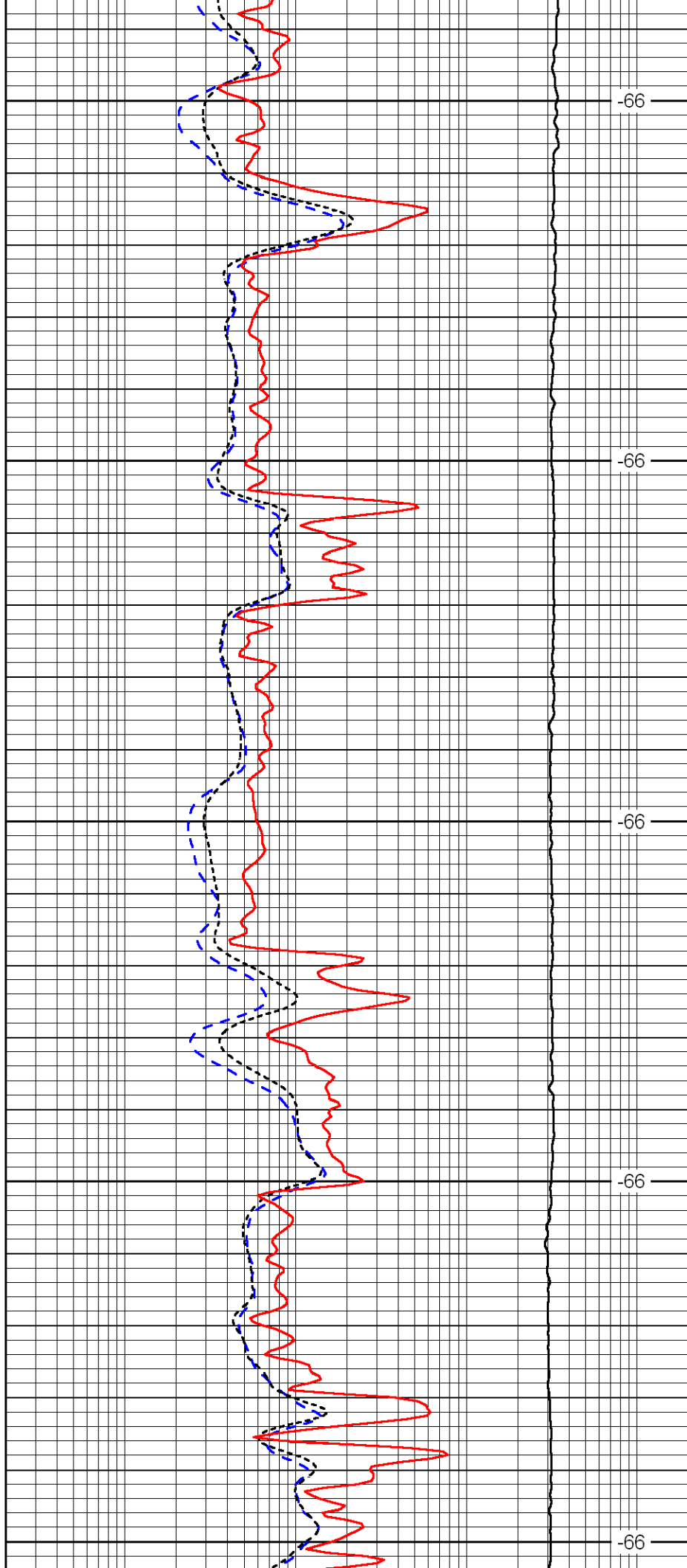
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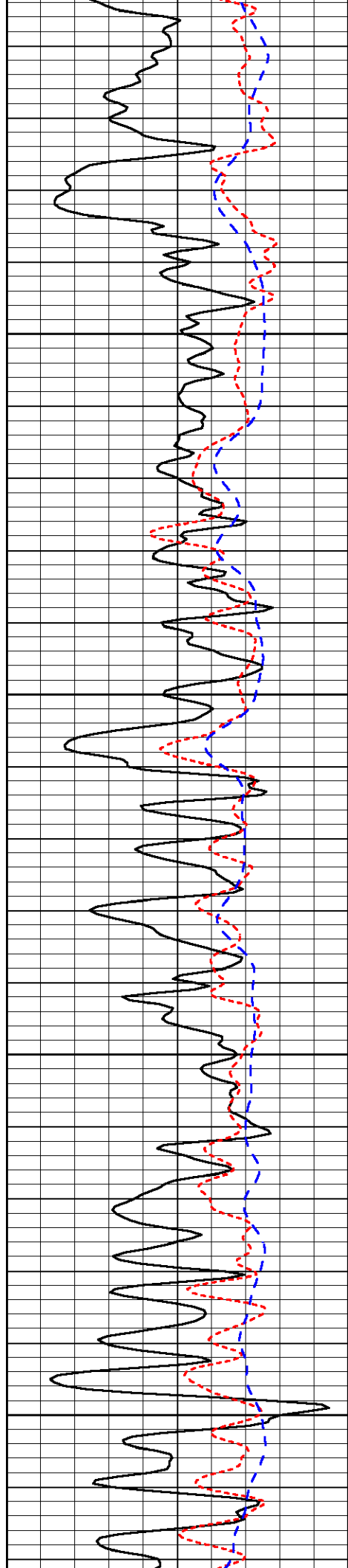
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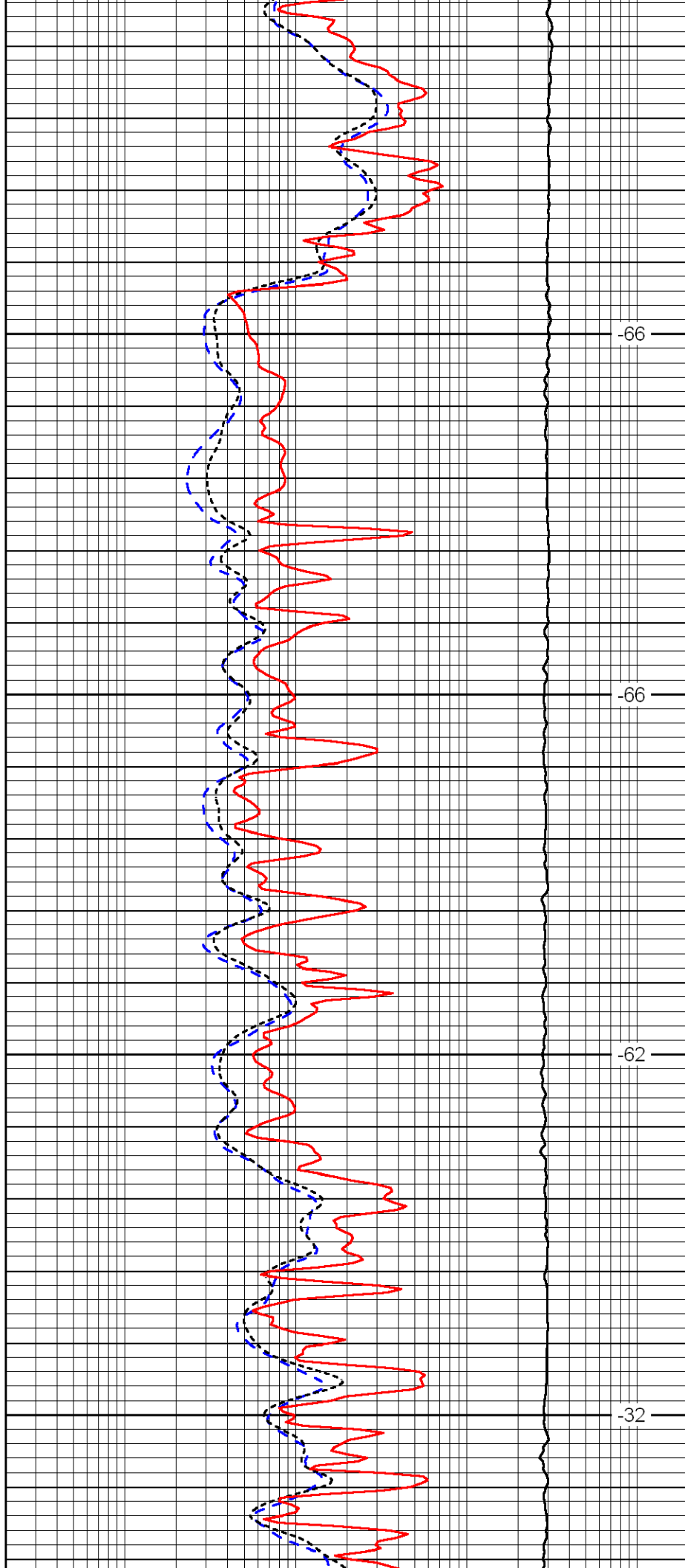


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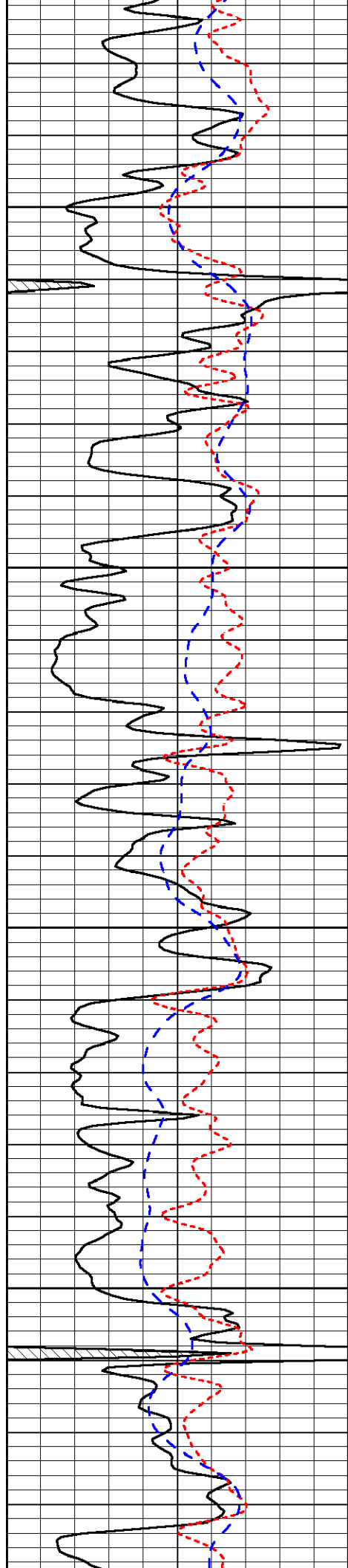


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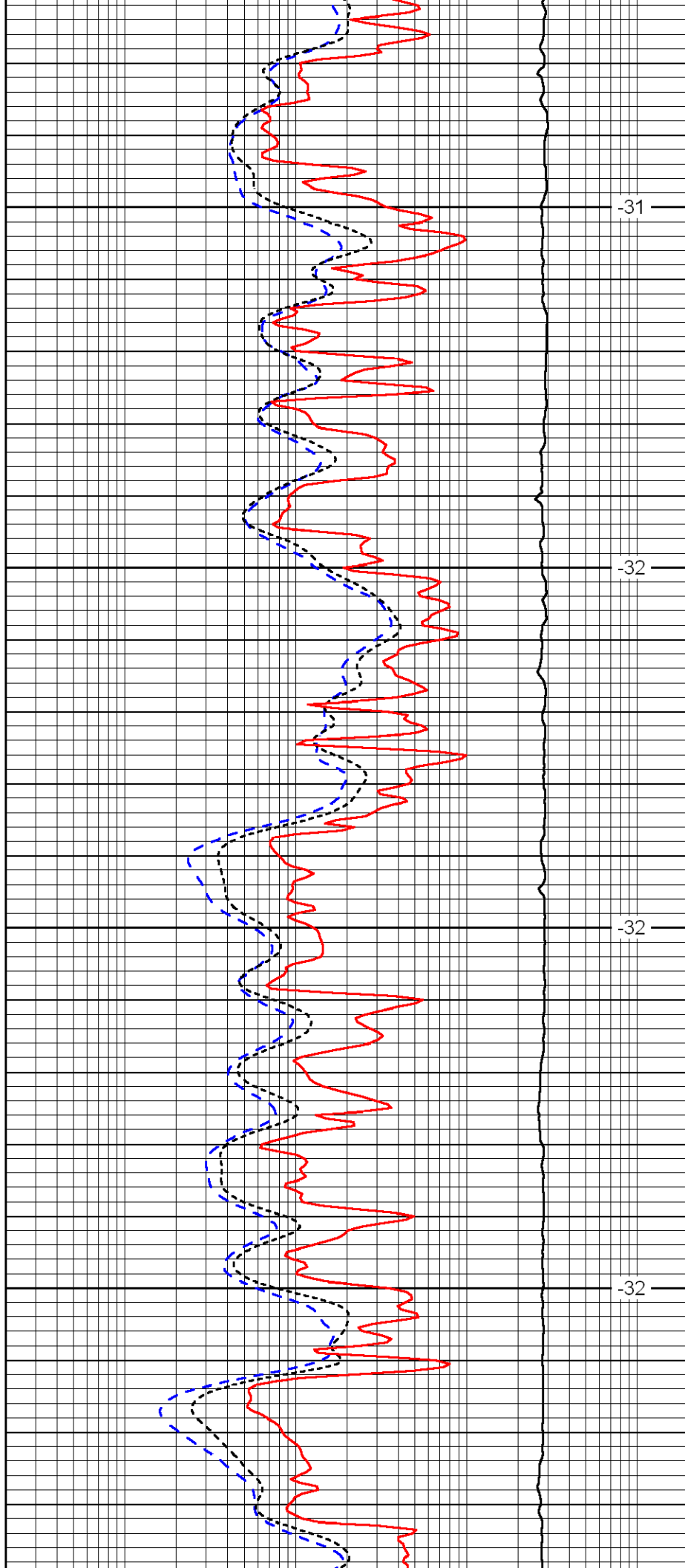


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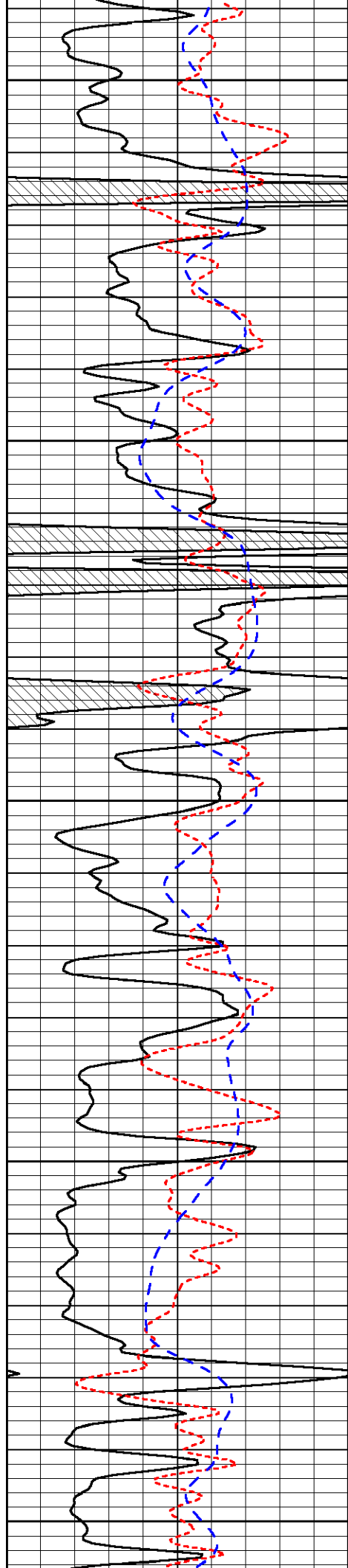


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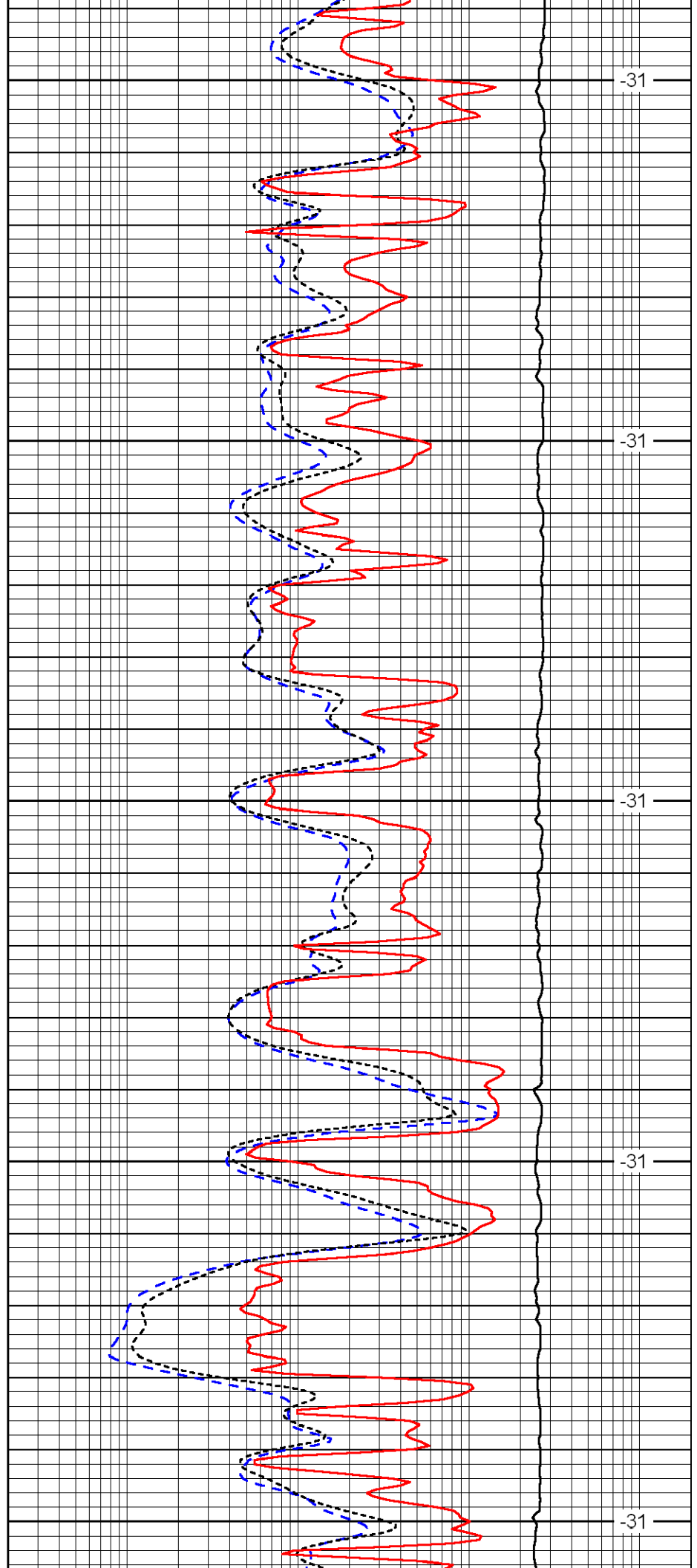
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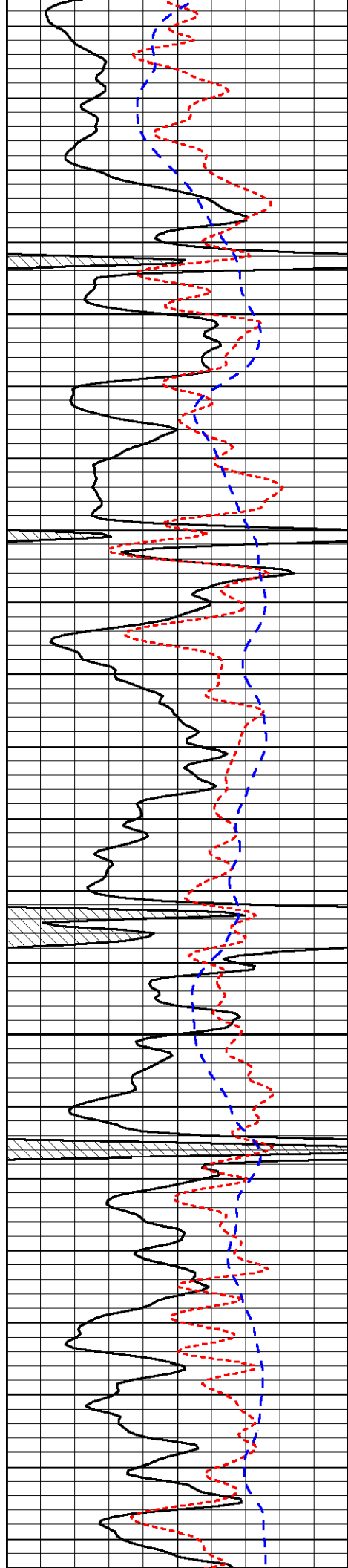
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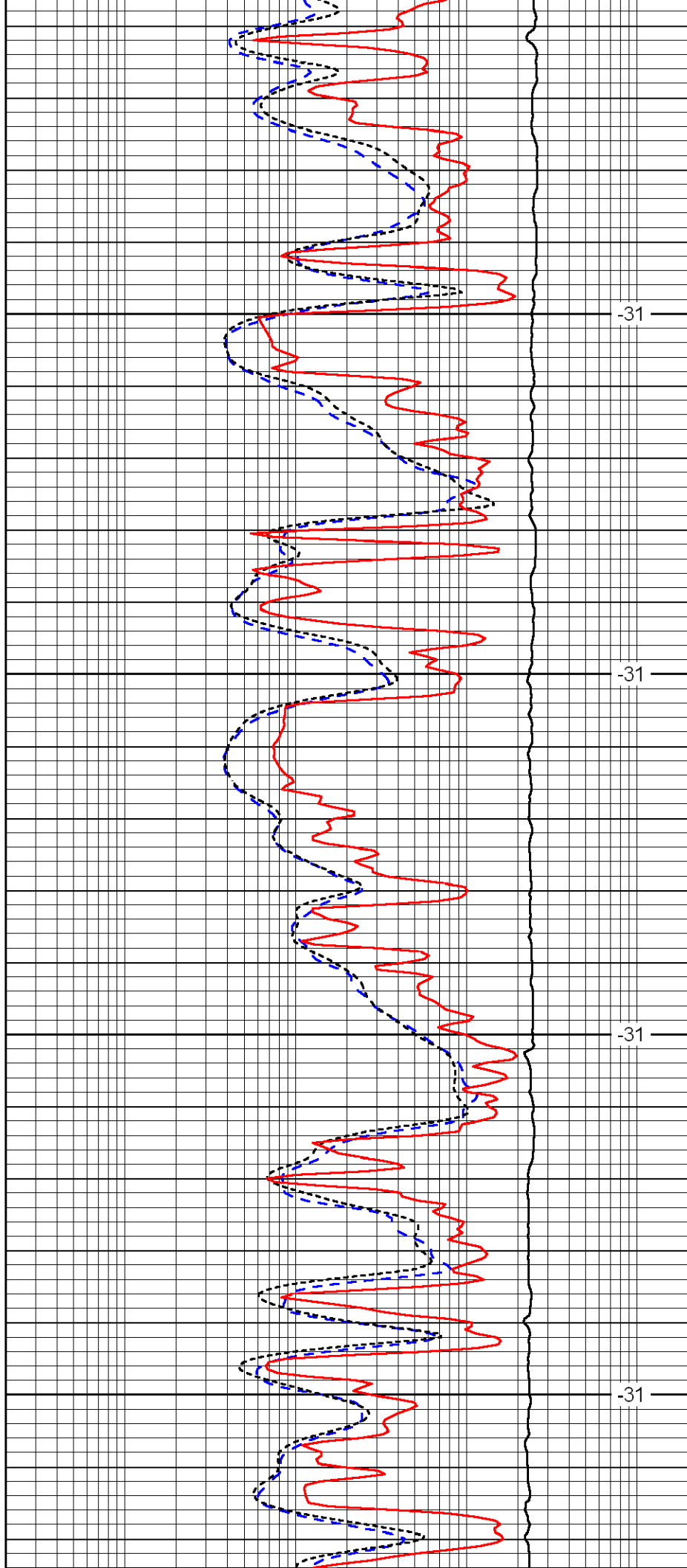


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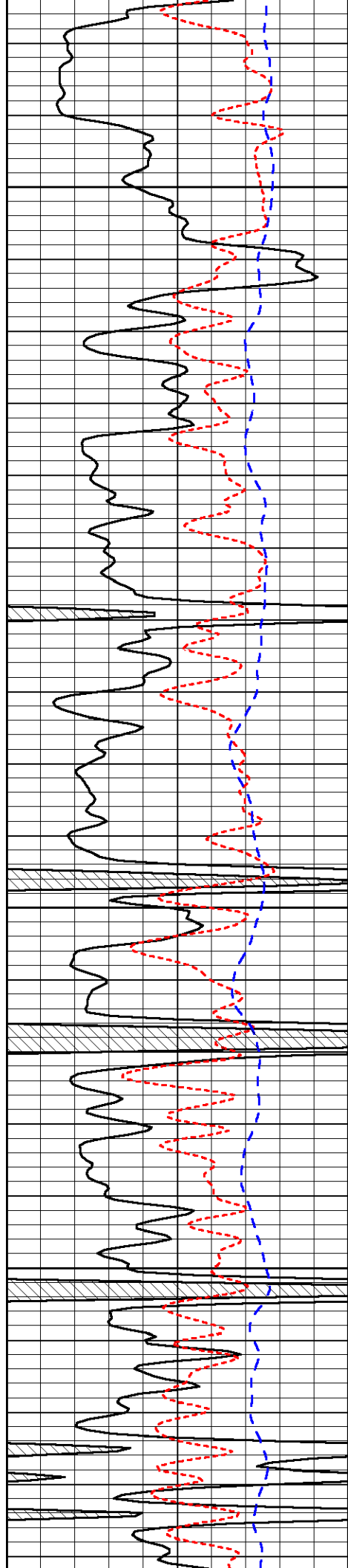


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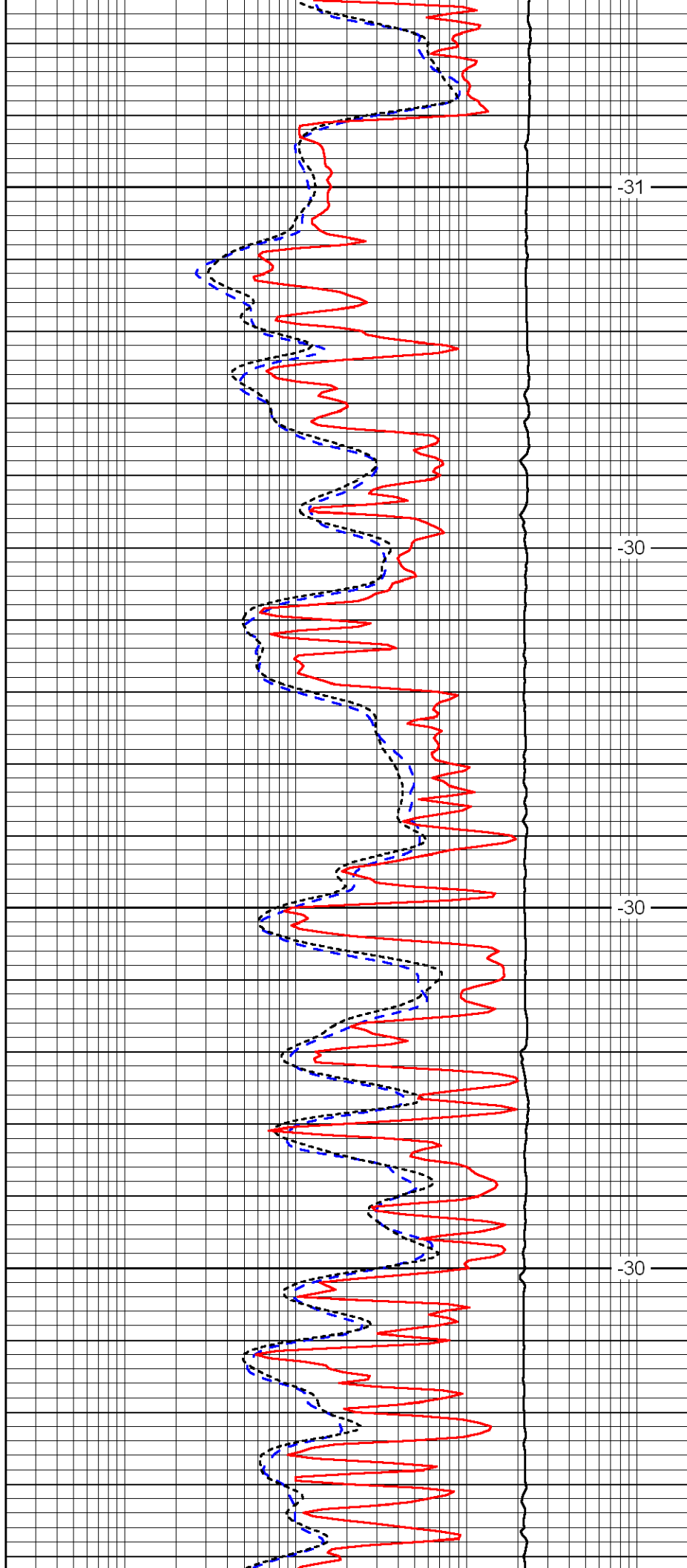


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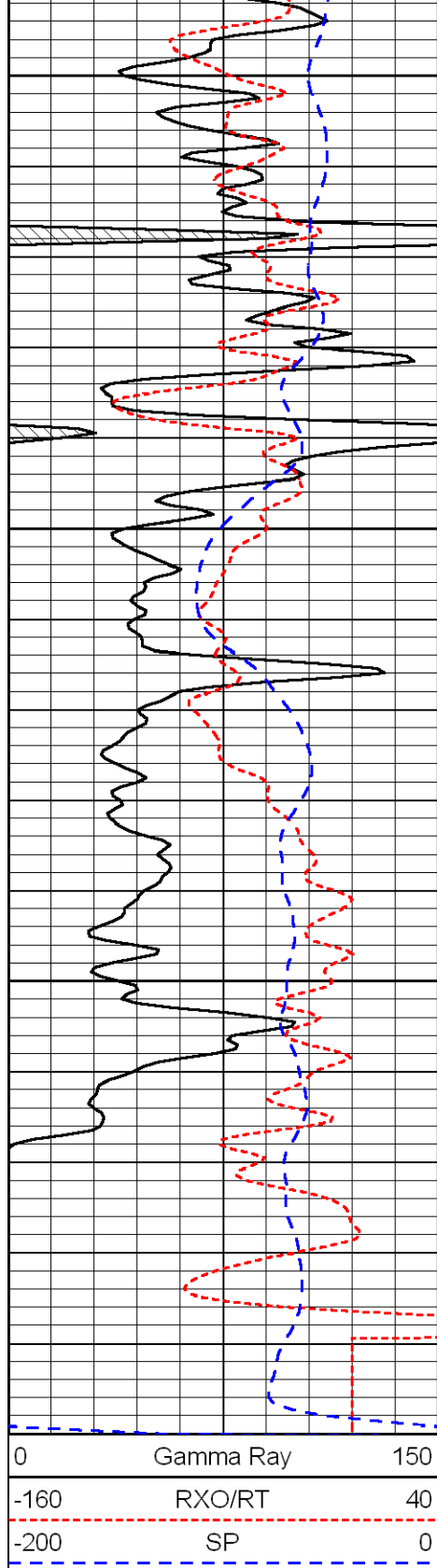


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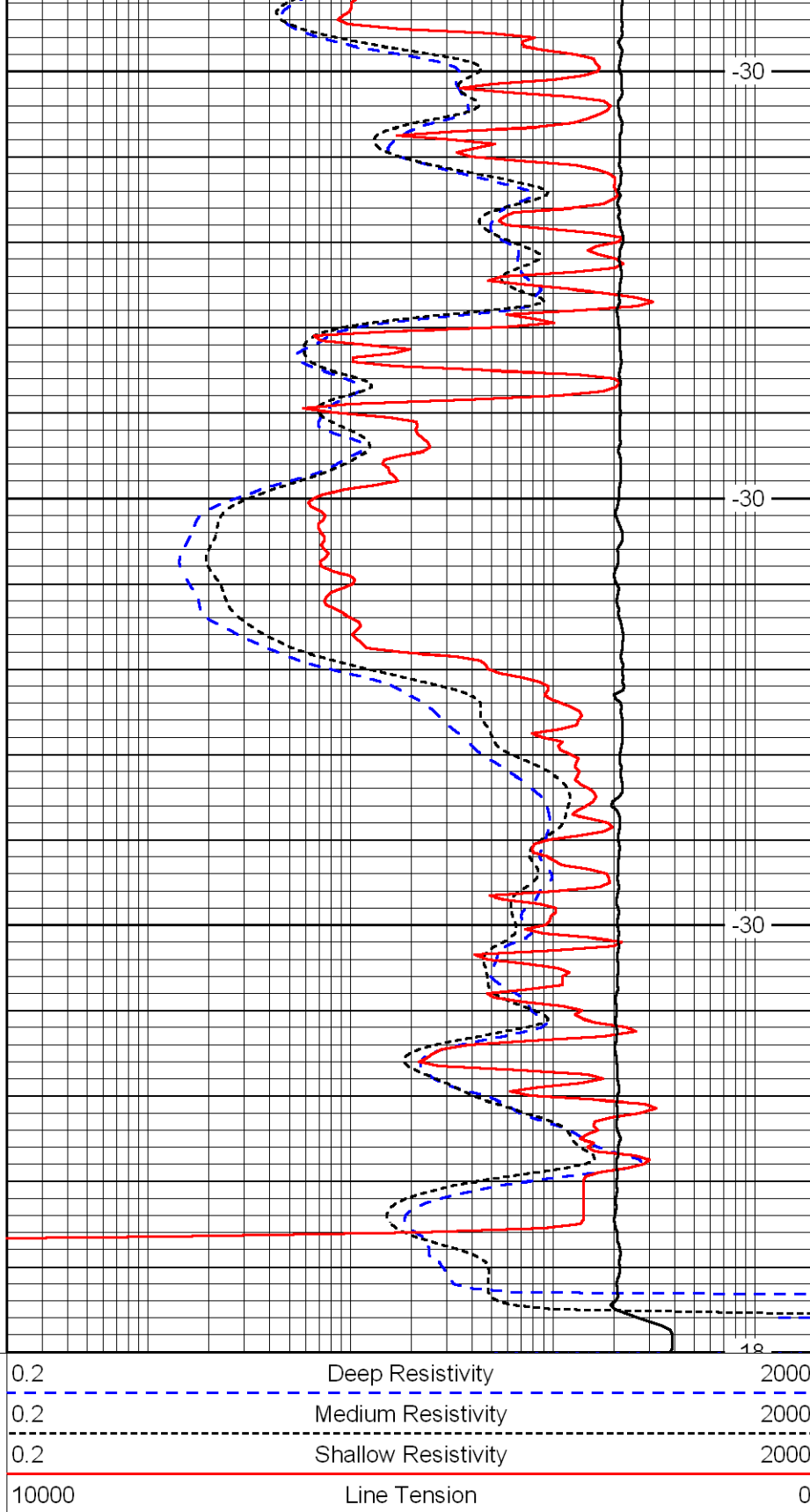


4700

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4850



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LSPD