



Pioneer Energy Services

Dual Induction Log

15-047-21,644-00-00

API No.

Company **Toto Energy, LLC**

Well **Prince Of Whales #8-1**

Field **Wil**

County **Edwards** State

Kansas

Location **1650' FNL & 2300' FEL**

Sec: **8** Twp: **26S** Rge: **16W**

Permanent Datum **Ground Level** Elevation **2083**

Log Measured From **Kelly Bushing** 11 Ft. Above Perm. Datum

Drilling Measured From **Kelly Bushing**

Other Services
CNL/CDL
MEL

Elevation

K.B. 2094
D.F. G.L. 2083

Date **8/10/2014**

Run Number **One**

Depth Driller **4870**

Depth Logger **4867**

Bottom Logged Interval **4866**

Top Log Interval **350**

Casing Driller **8.625 @ 357**

Casing Logger **354**

Bit Size **7.875**

Type Fluid in Hole **Chemical**

Salinity,ppm CL **6500**

Density / Viscosity **9.45 49**

pH / Fluid Loss **8.9 12.8**

Source of Sample **Flowline**

Rm @ Meas. Temp **0.85 @ 76**

Rmf @ Meas. Temp **0.64 @ 76**

Rmc @ Meas. Temp **1.15 @ 76**

Source of Rmf / Rmc **Charts**

Rm @ BHT **0.52 @ 125**

Operating Rig Time **4 Hours**

Max Rec. Temp. F **125**

Equipment Number **10**

Location **Hays**

Recorded By **D.Kerr**

Witnessed By **Sonia McDanel**

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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
www.pioneerenergy.com
785 625 3858

Trousdale KS, South to Stop Sign,
1/2 South, West Into

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Presentation Format: dil2in
Dataset Creation: Sun Aug 10 05:02:22 2014
Charted by: Depth in Feet scaled 1:600

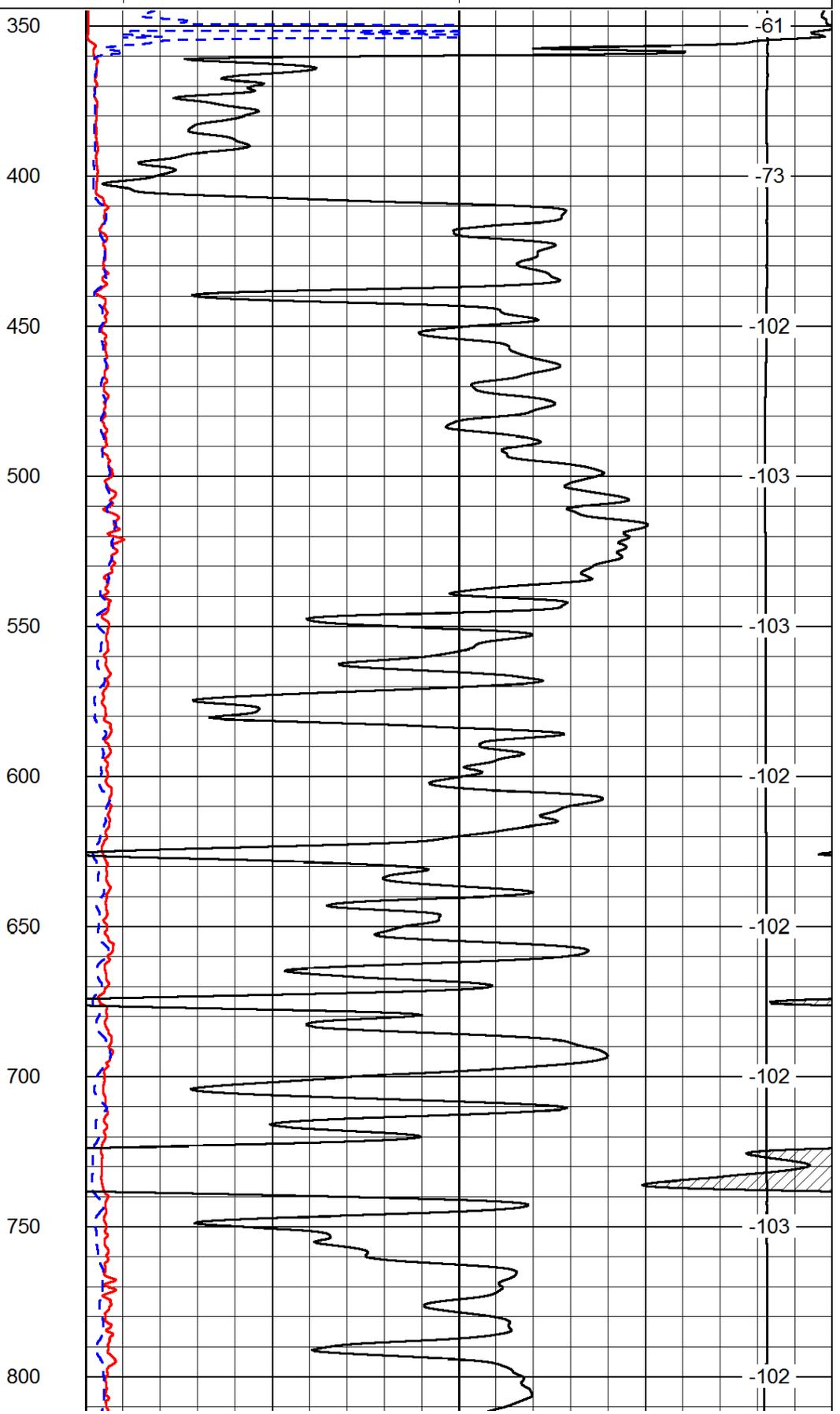
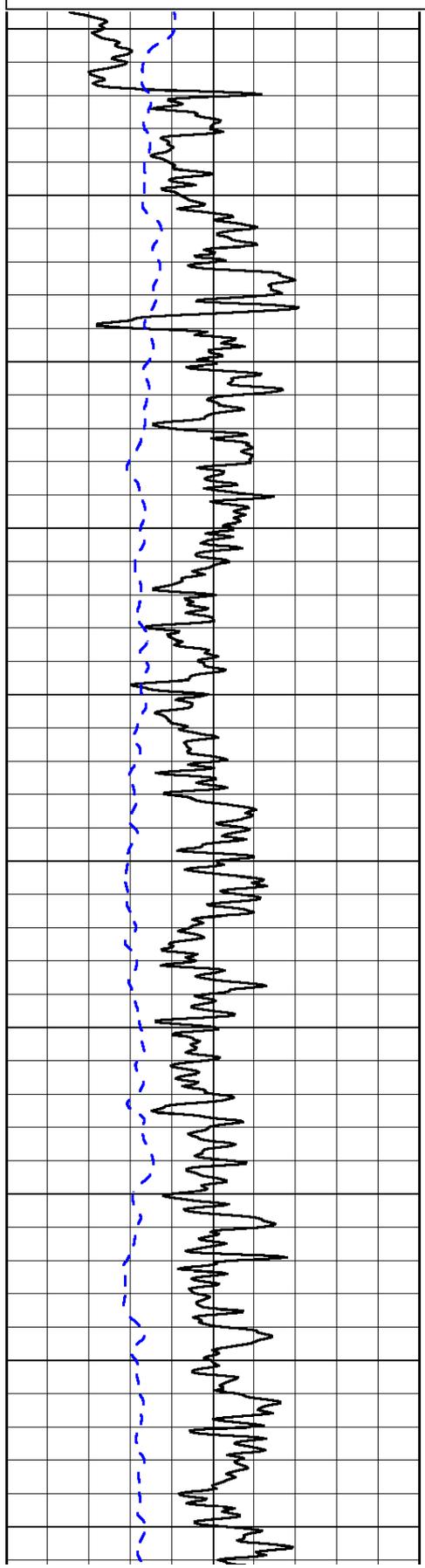
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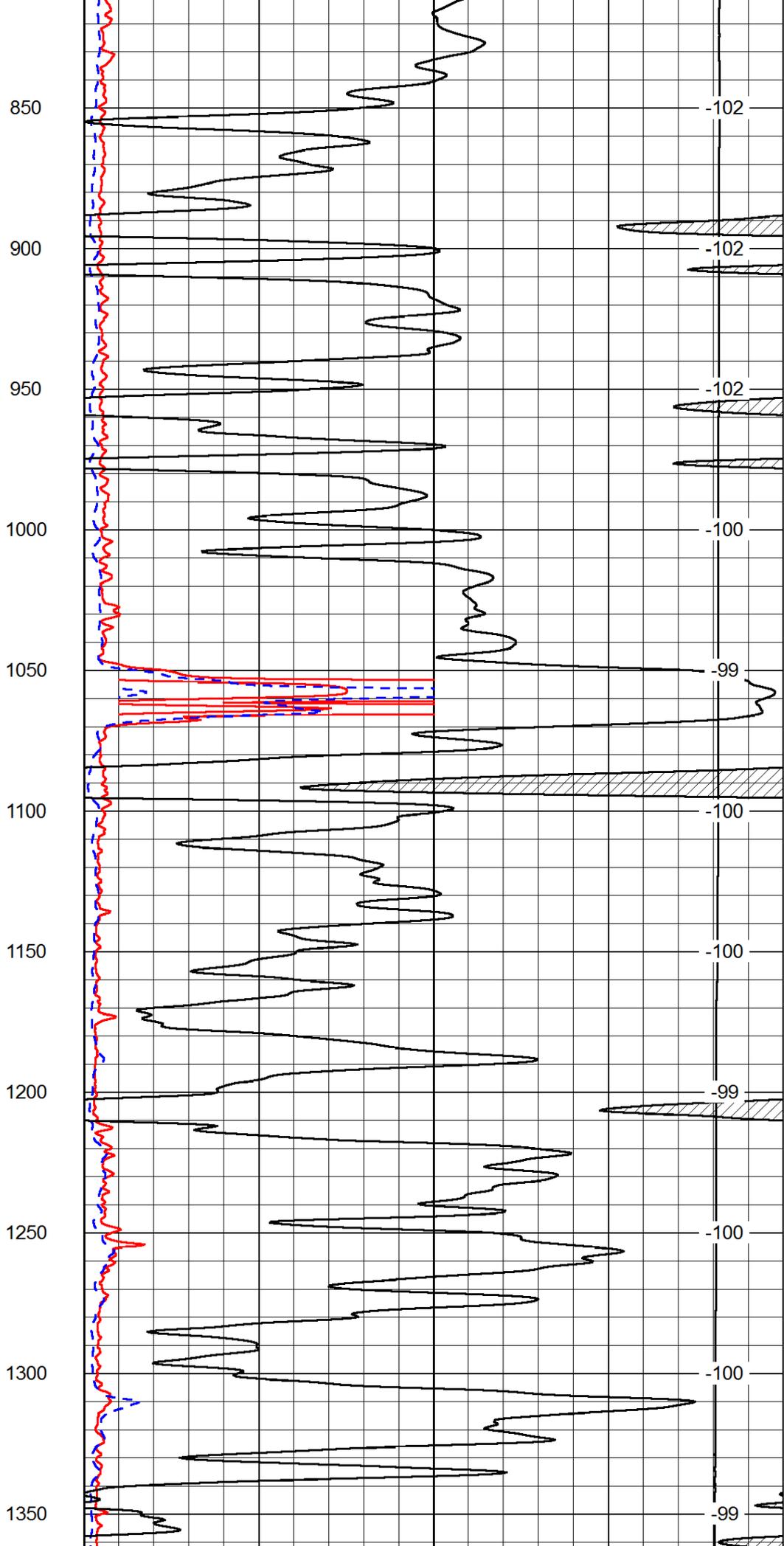
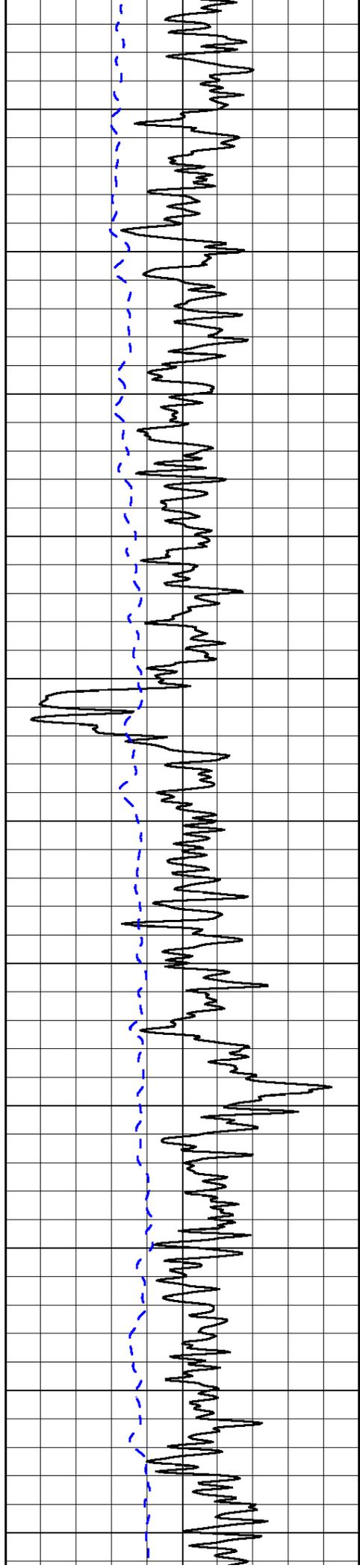
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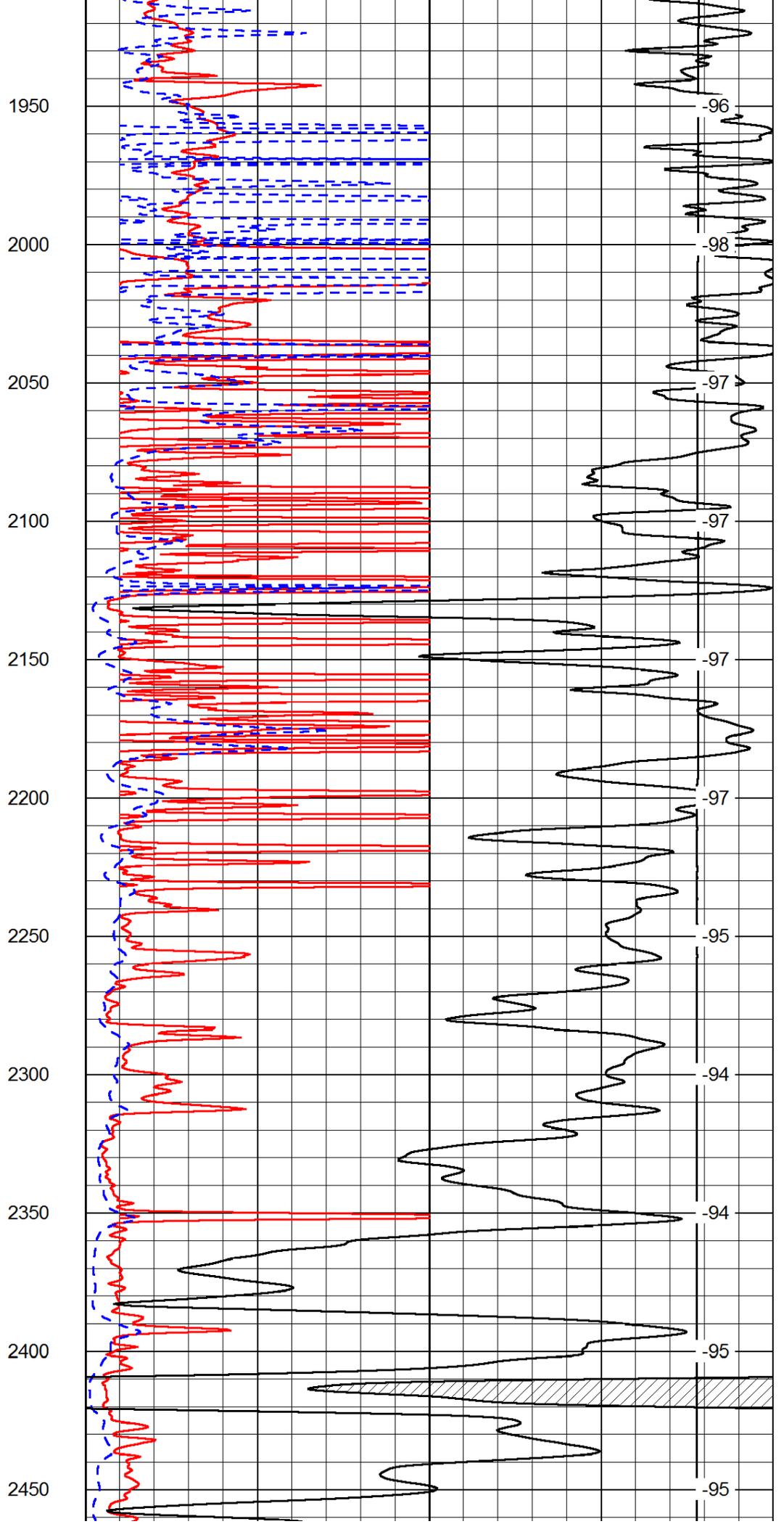
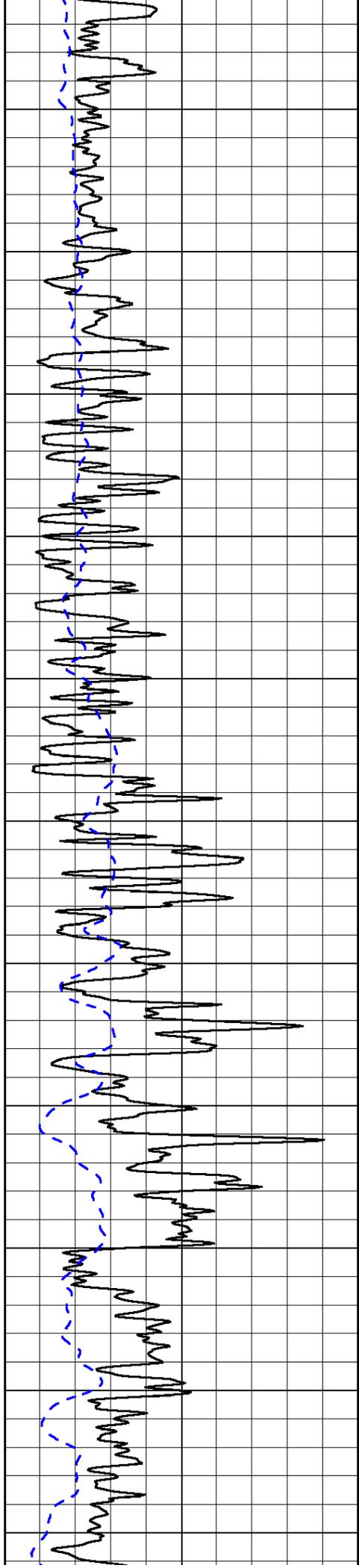
LSPD

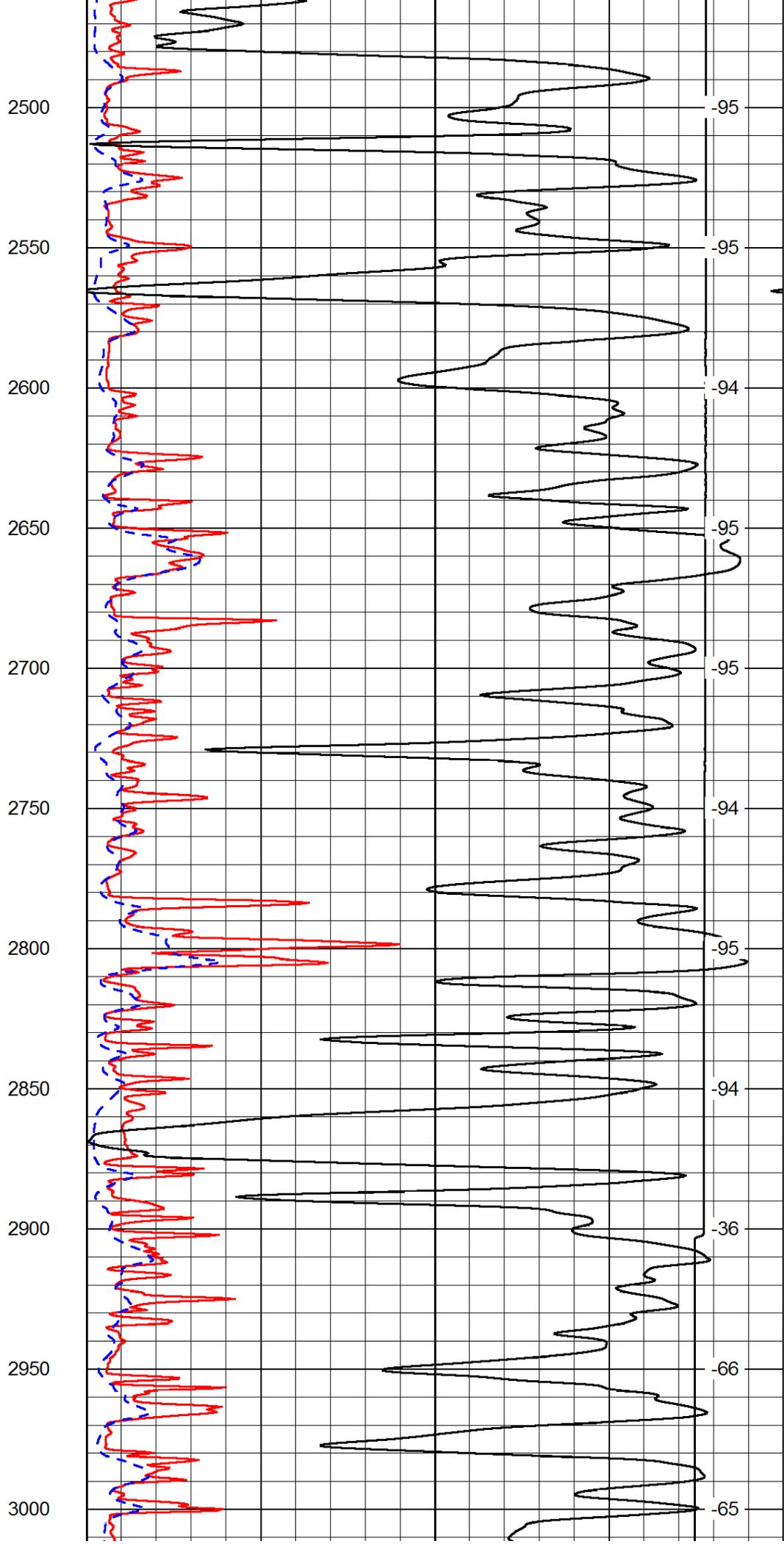
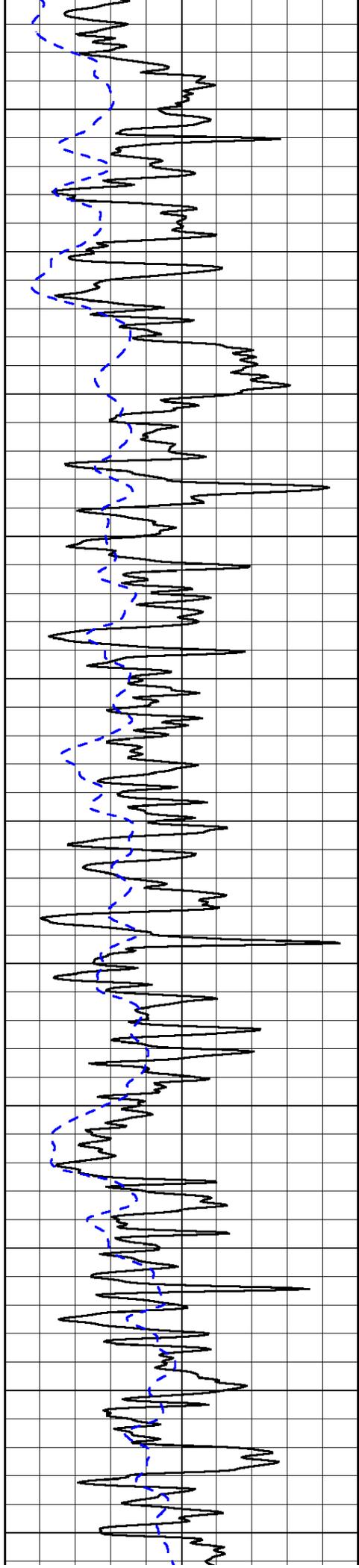
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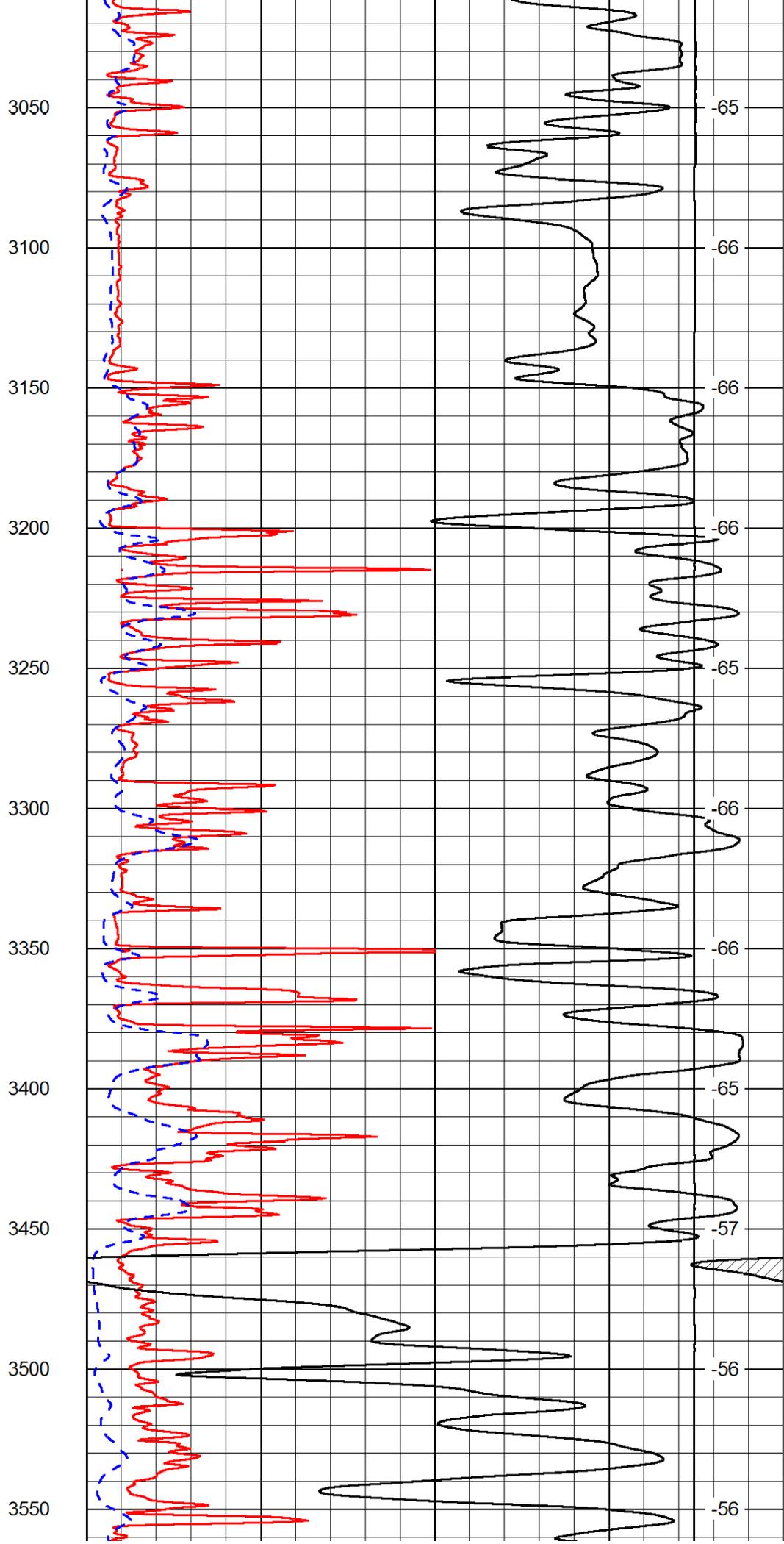
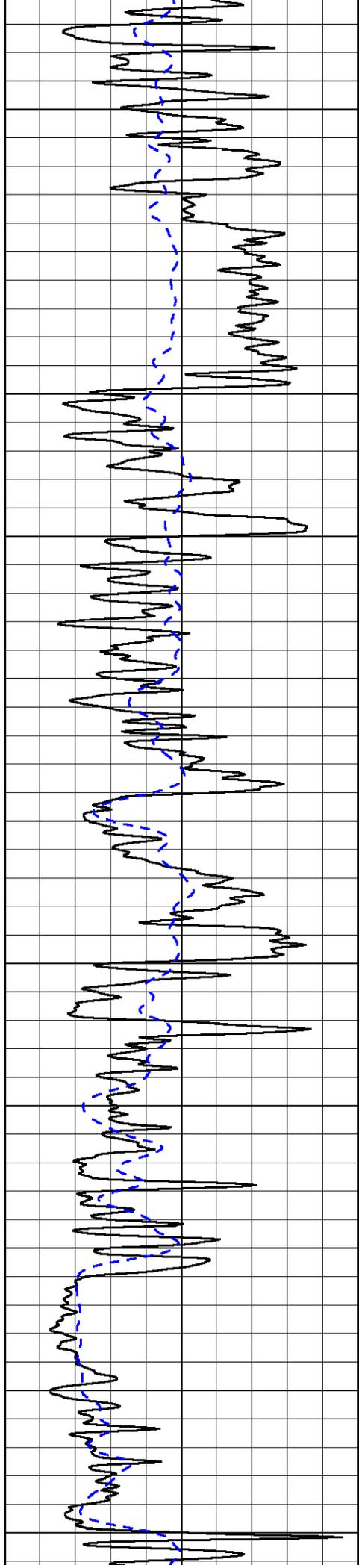
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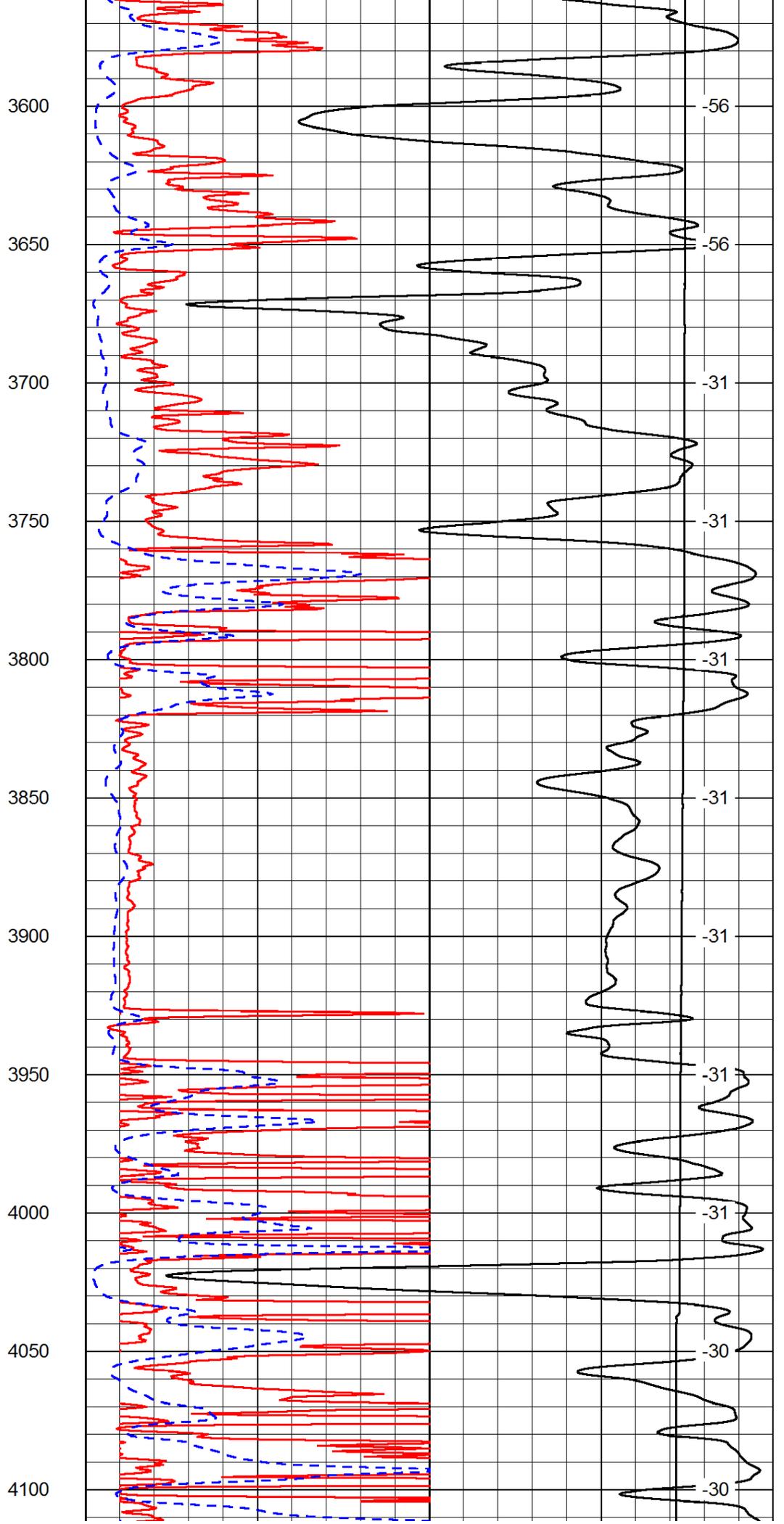
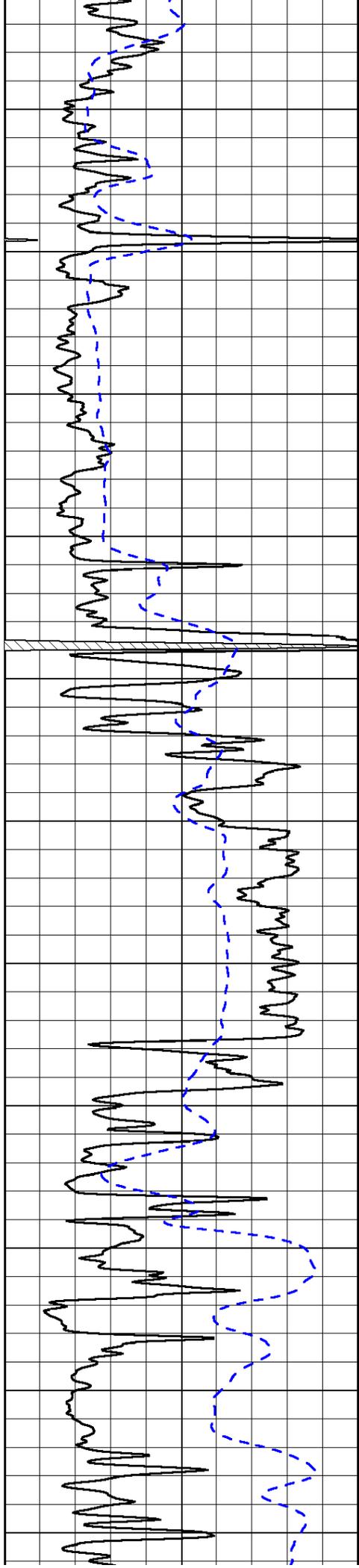


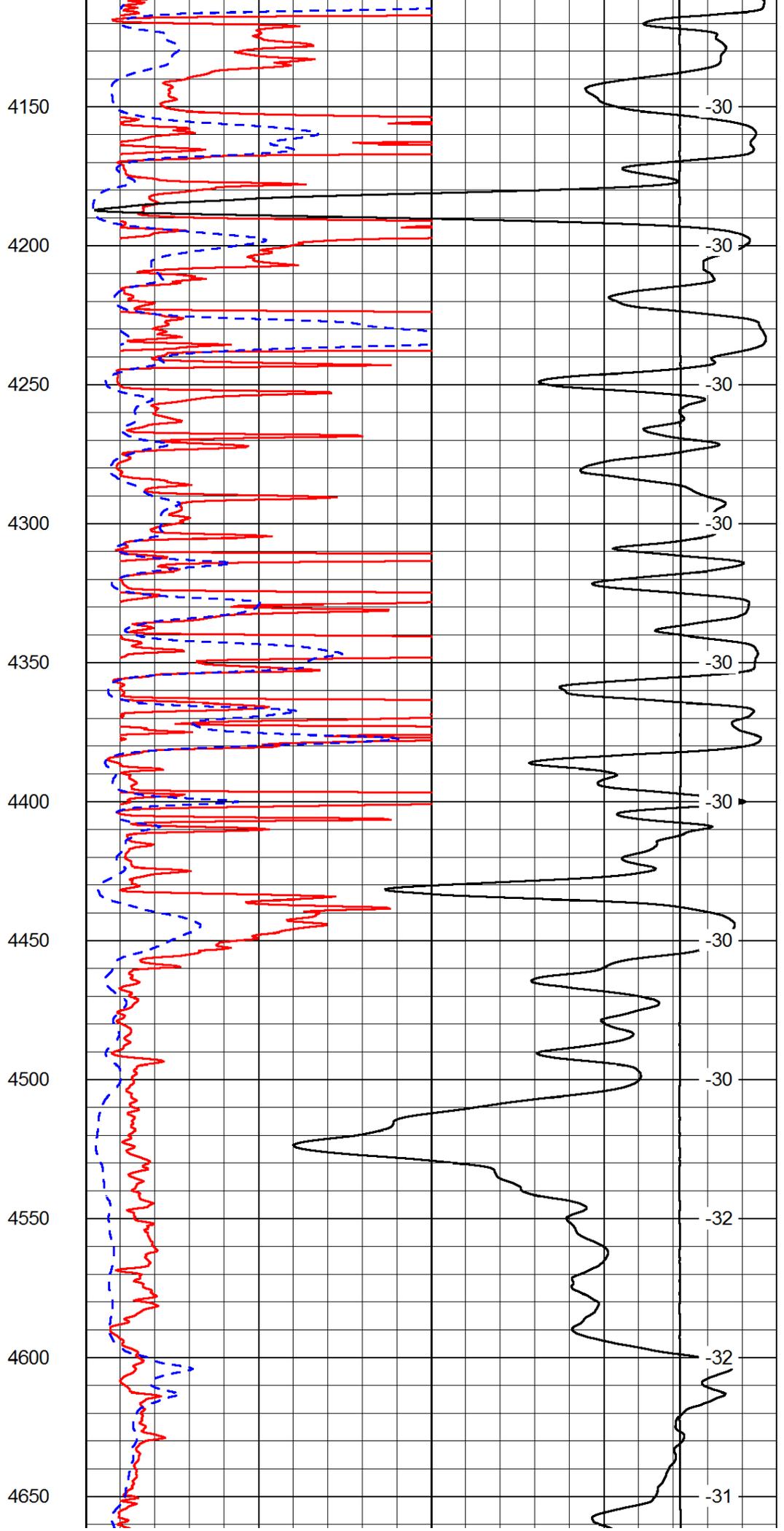
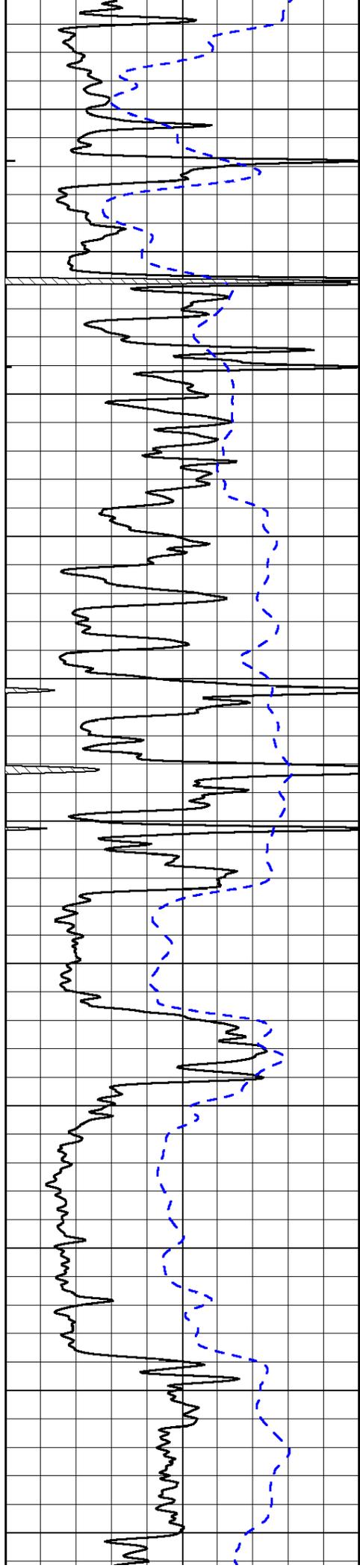


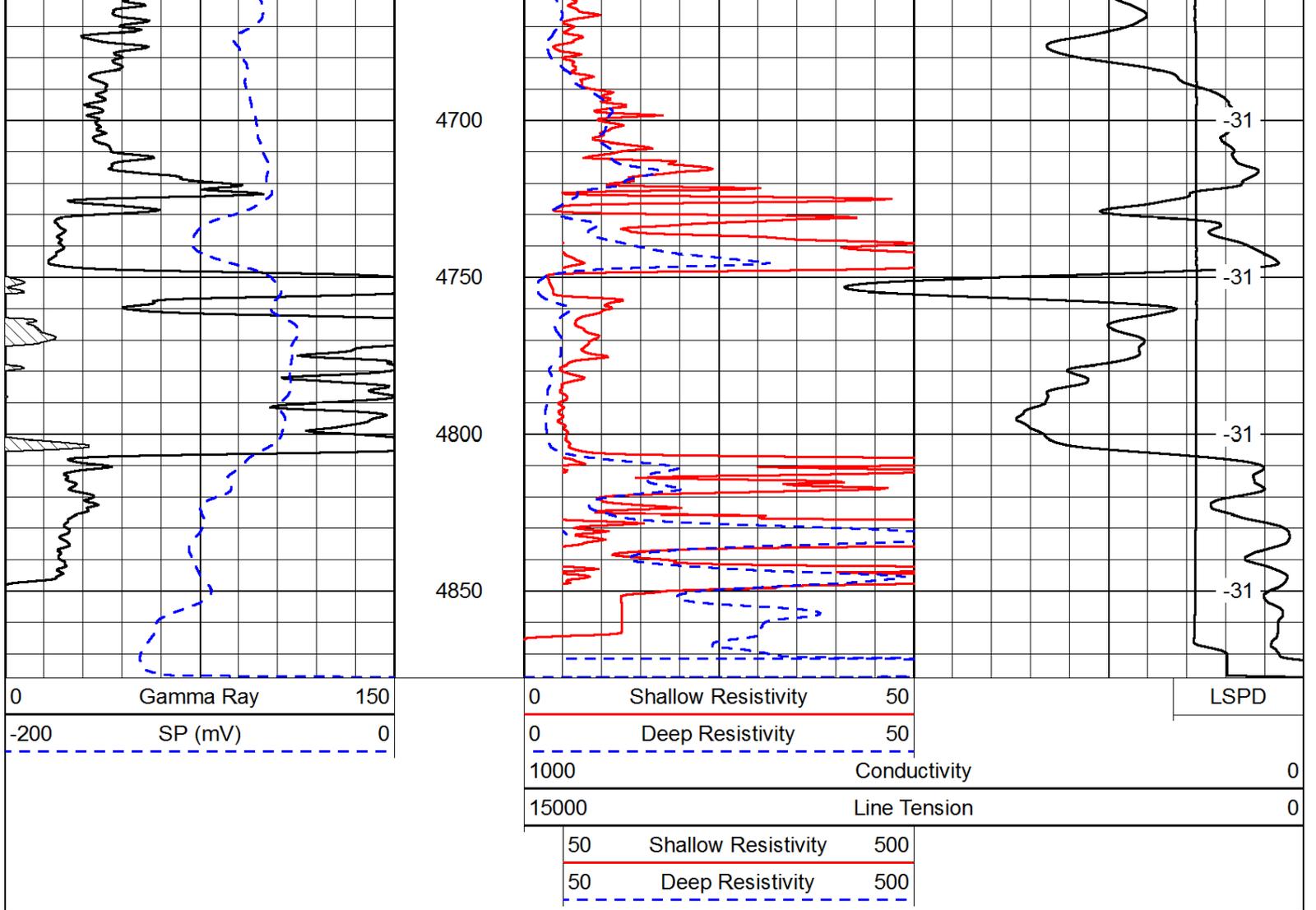




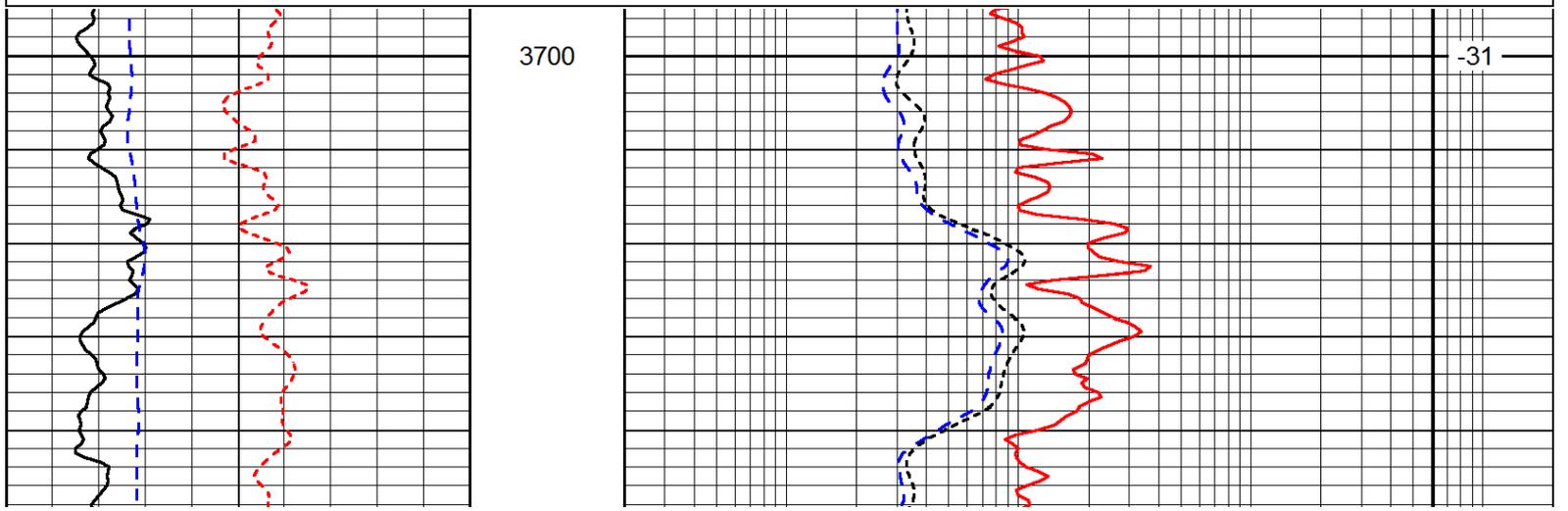
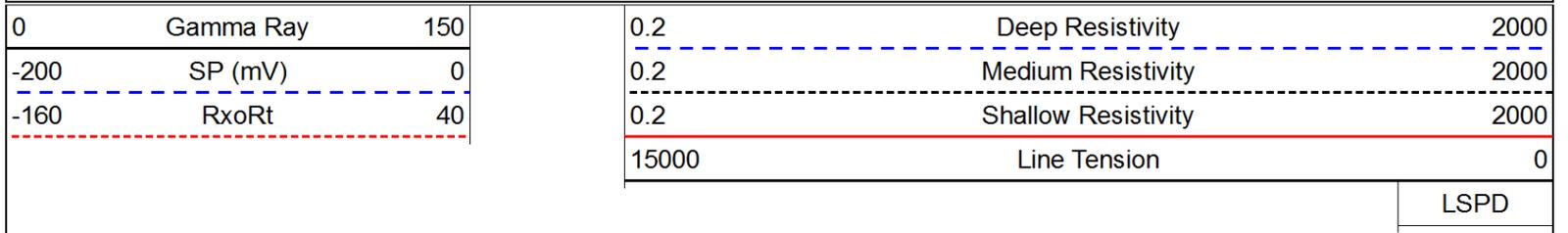


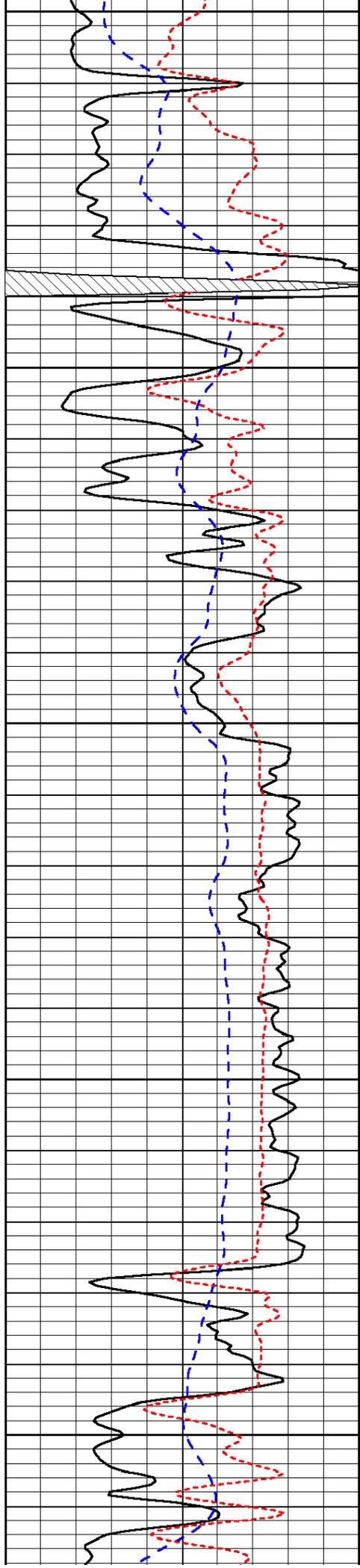






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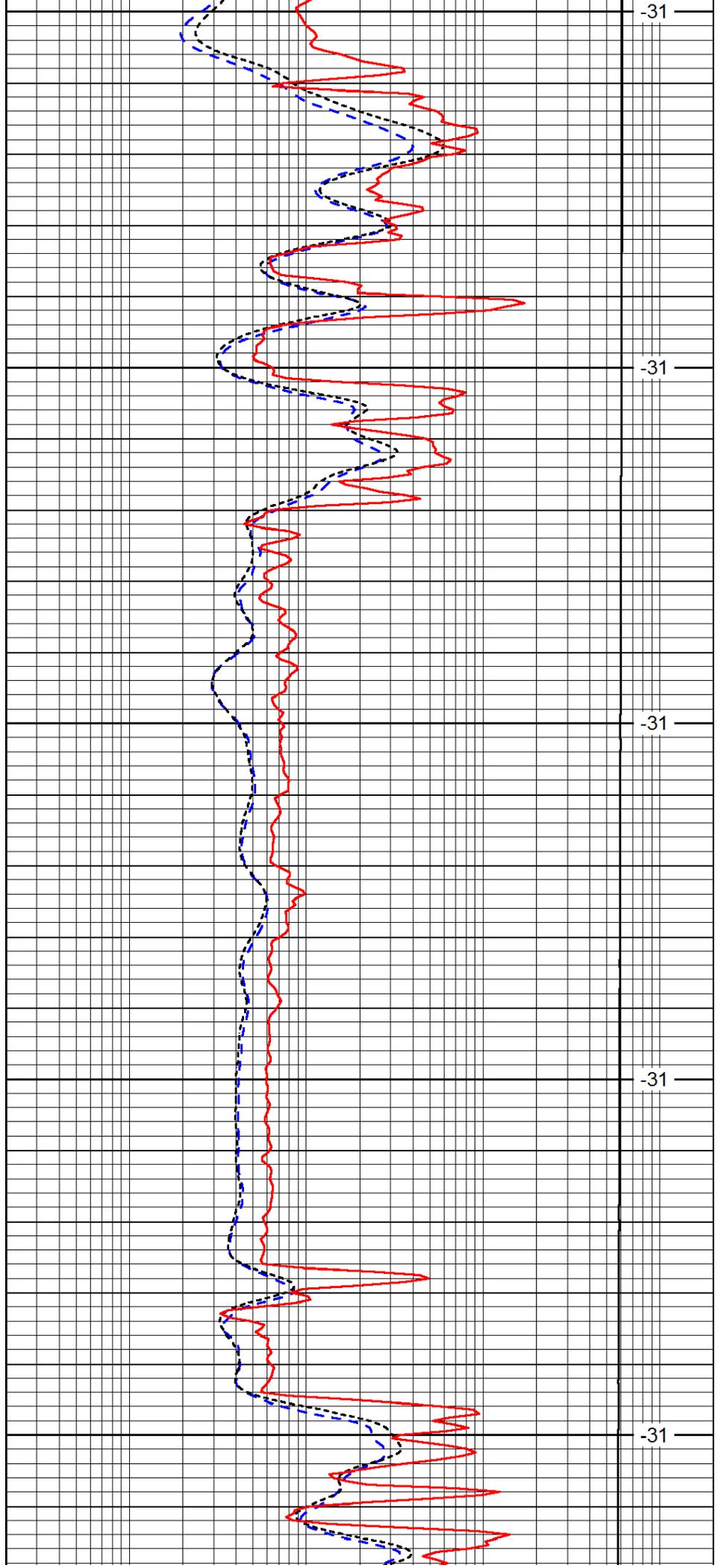
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3800

3850

3900

3950



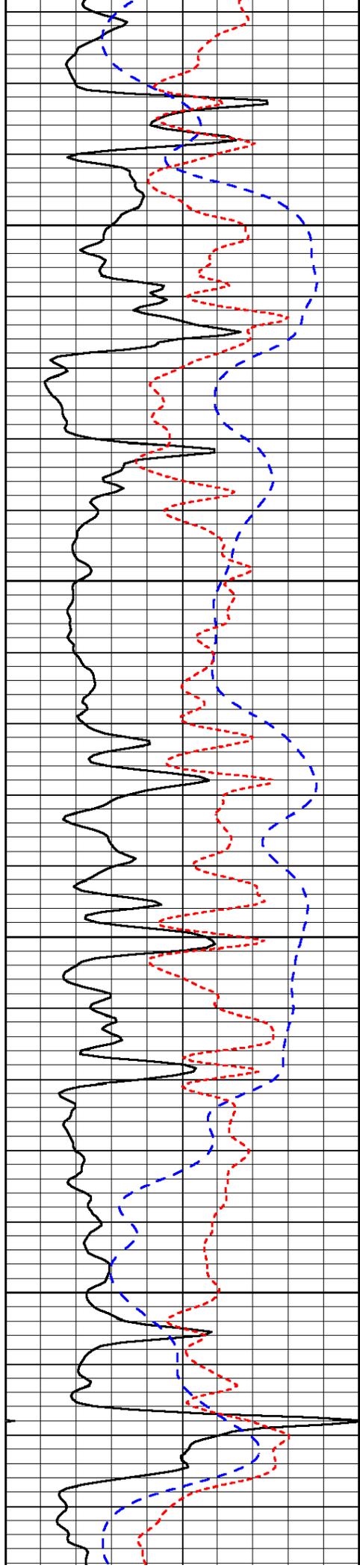
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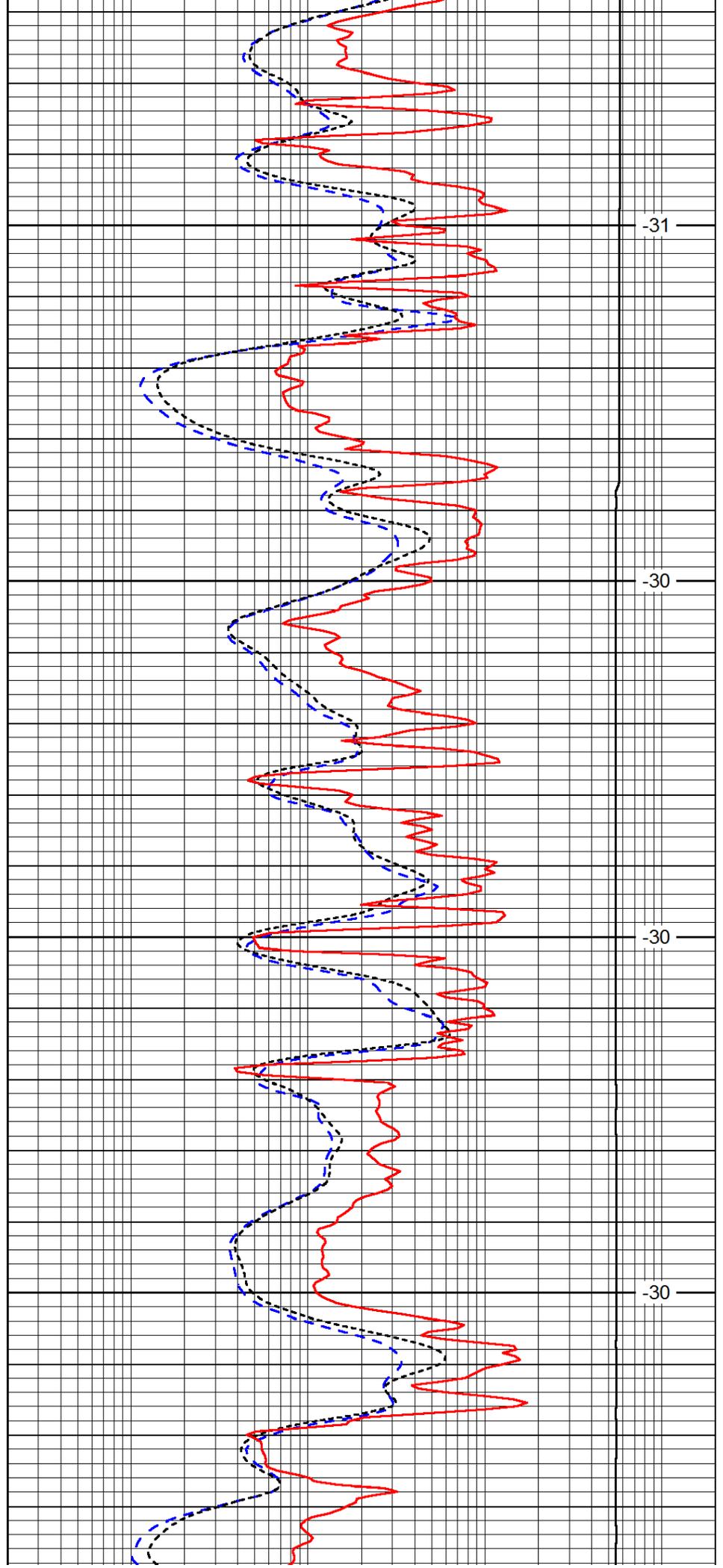


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4100

4150

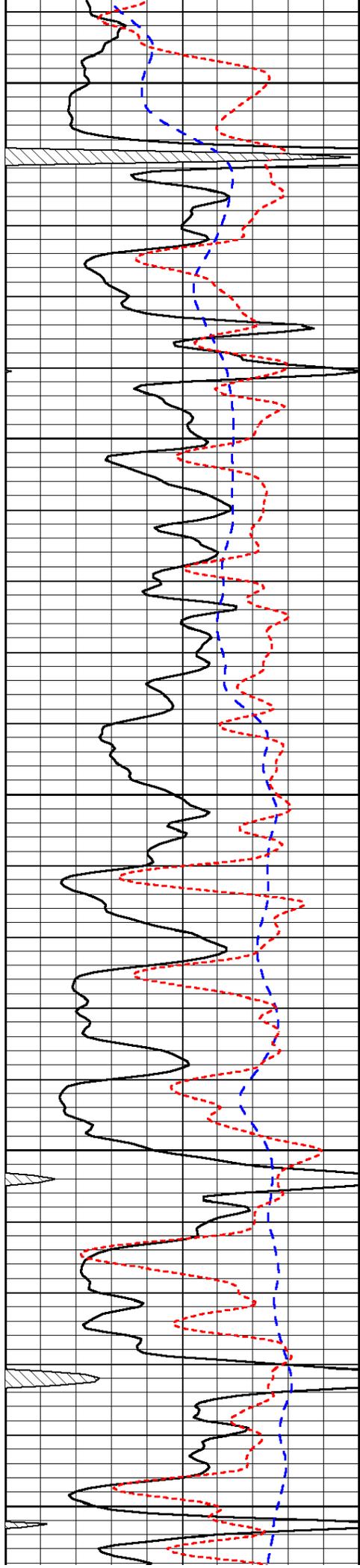


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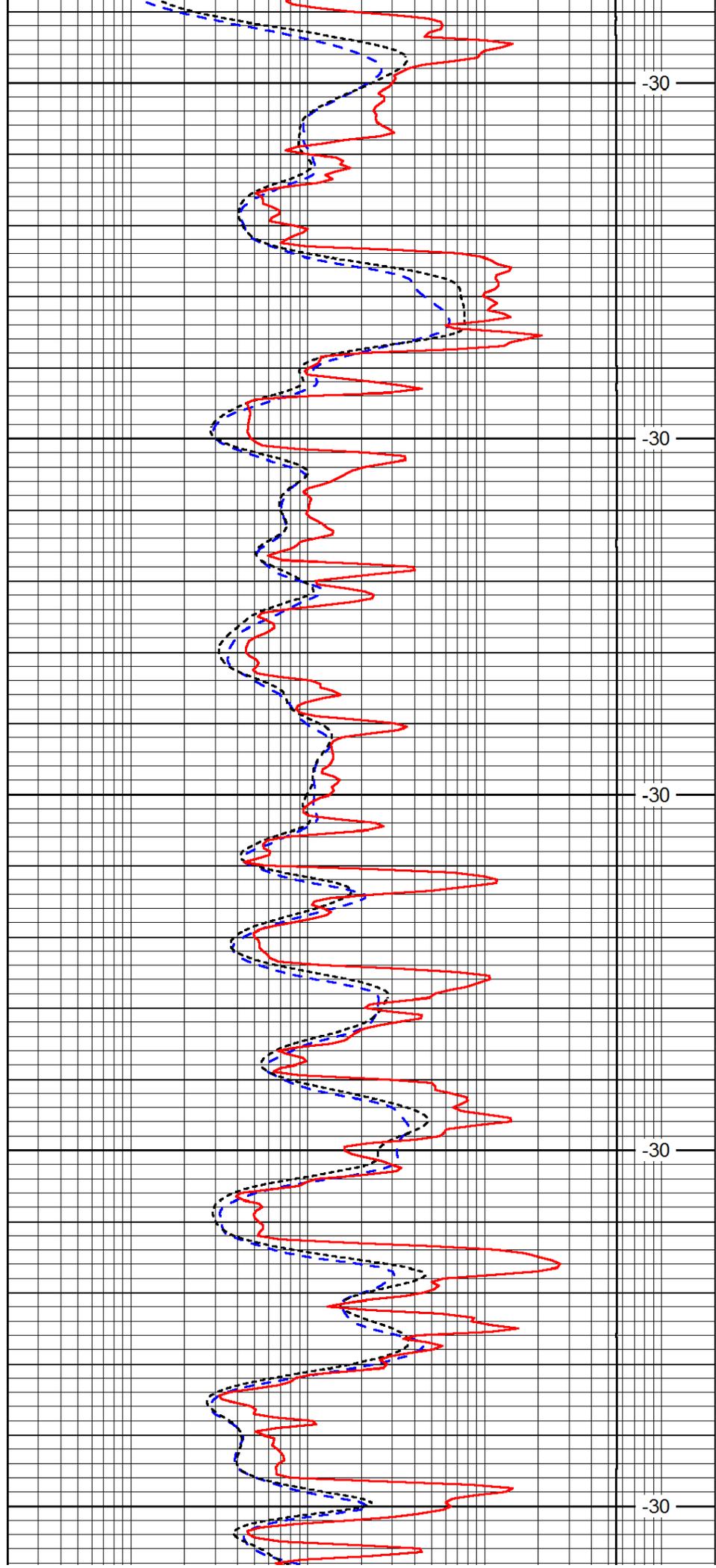
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4300

4350

4400



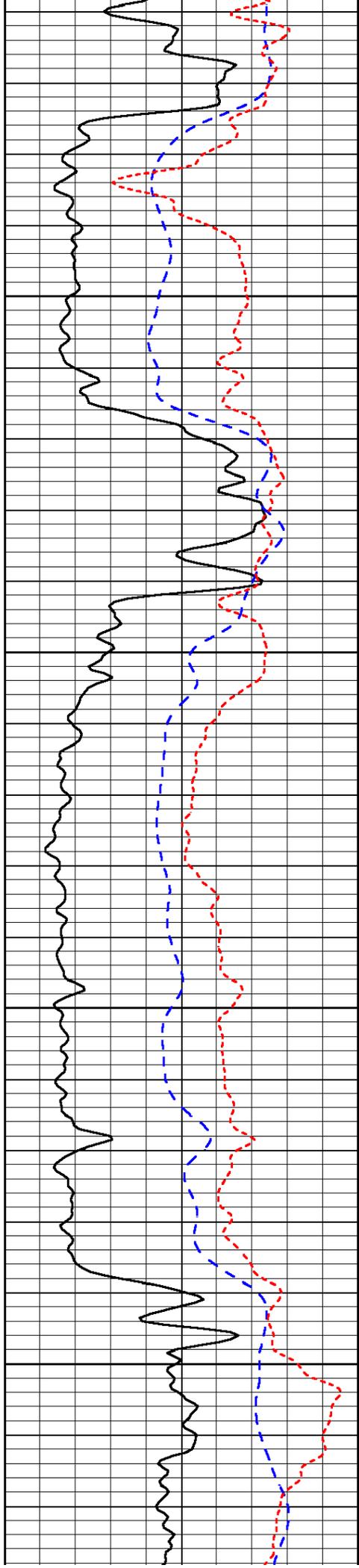
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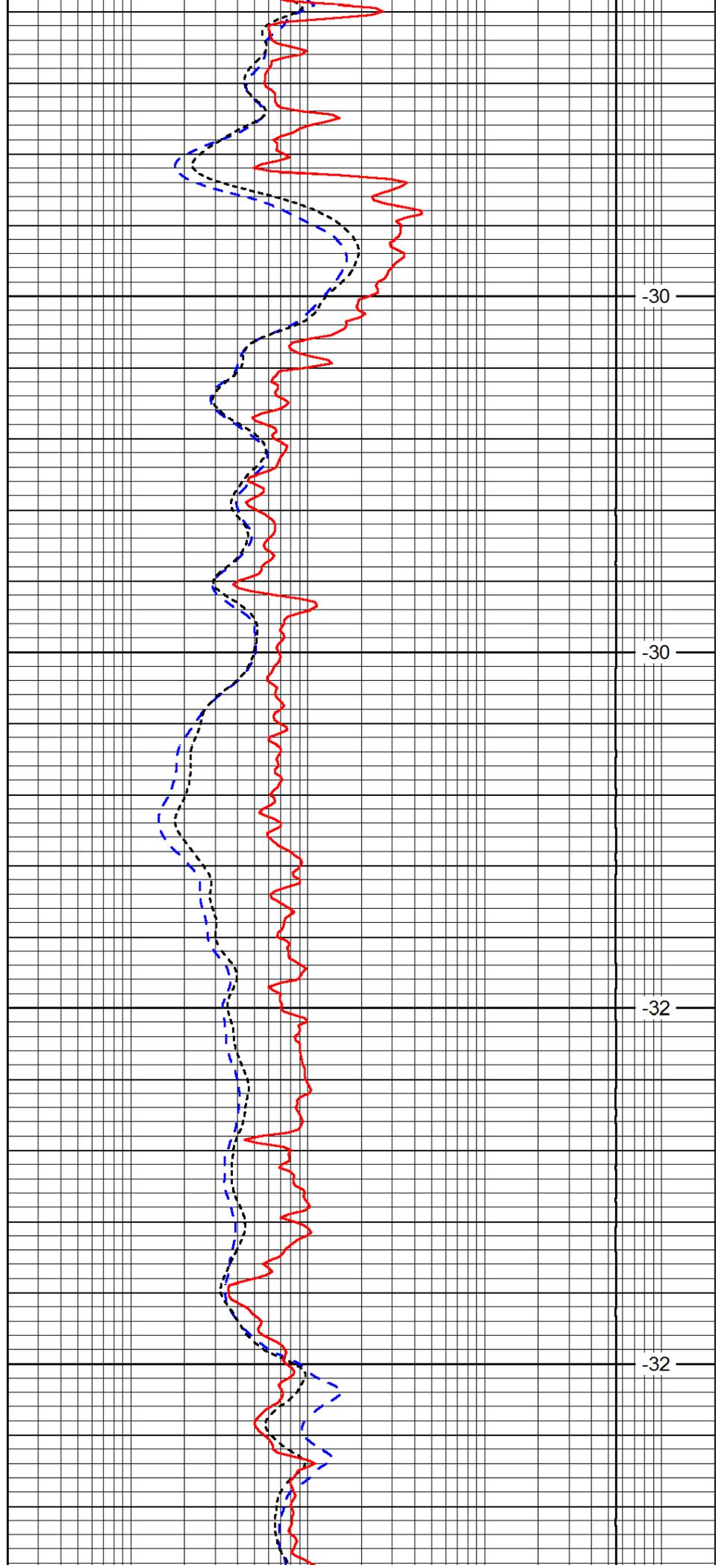


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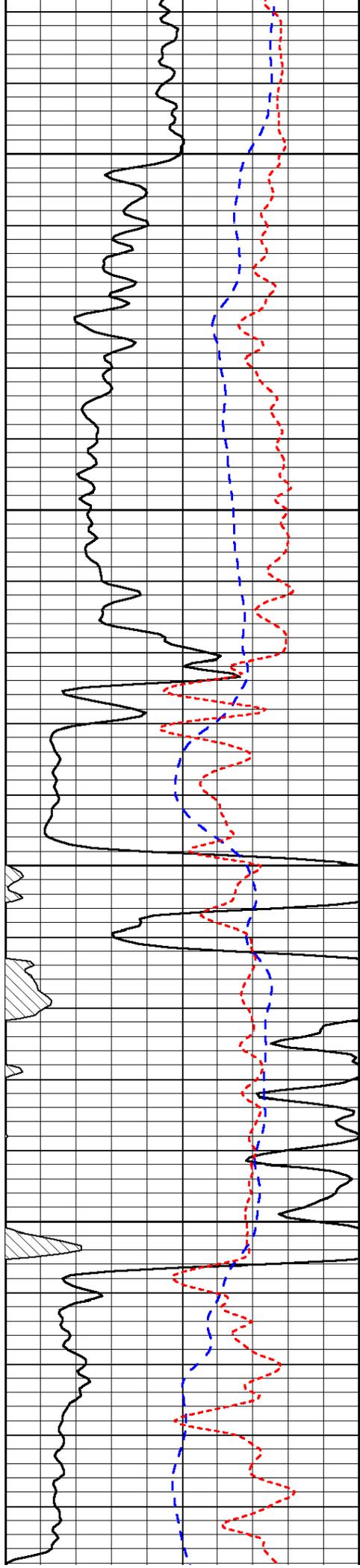


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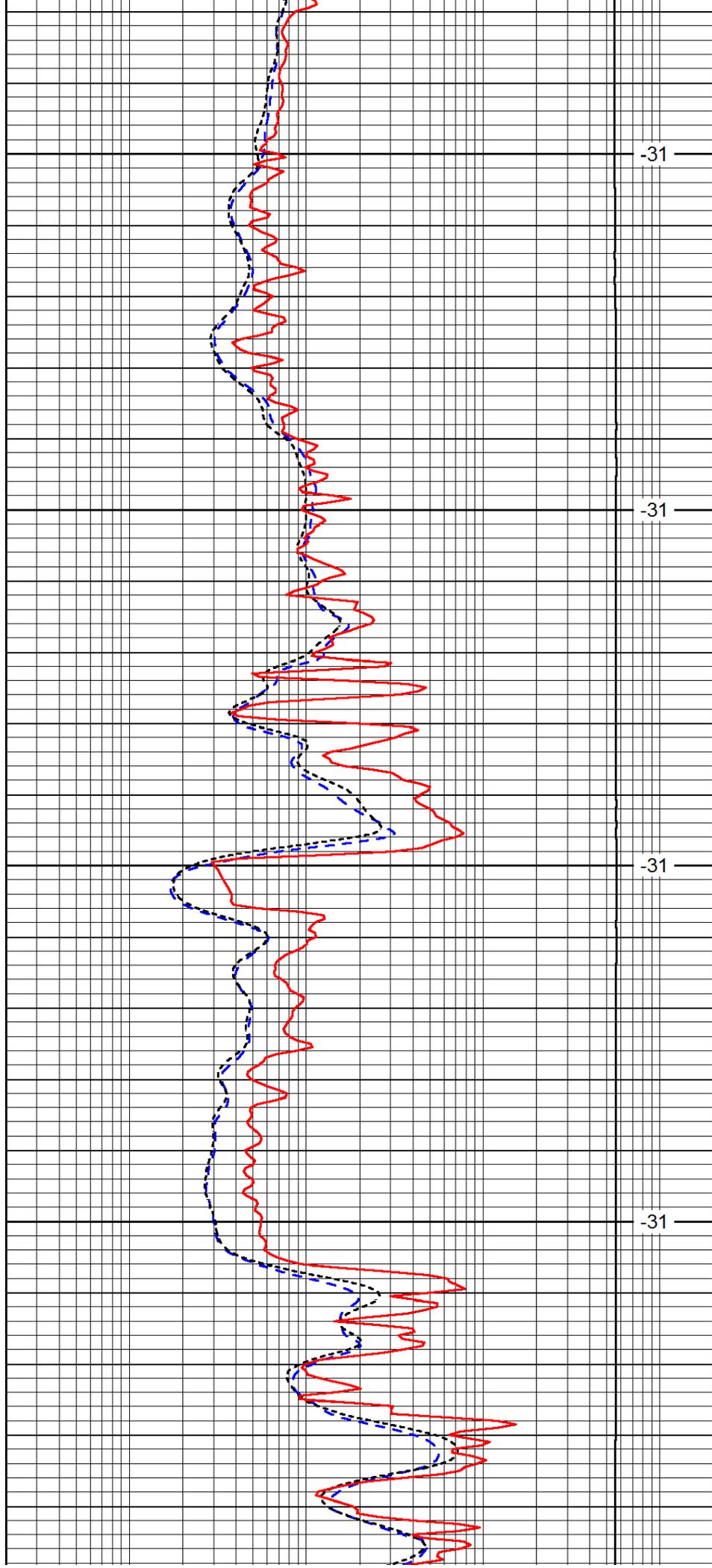


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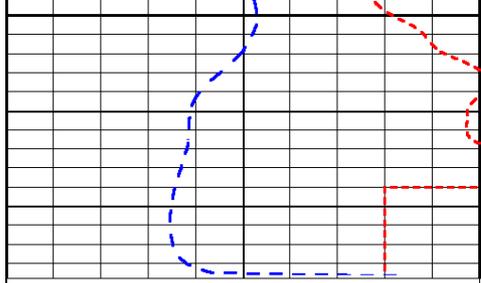


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4850

0	Gamma Ray	150
-200	SP (mV)	0
-160	RxoRt	40



-31

0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
15000	Line Tension	0

LSPD