



# Microresistivity Log

Pioneer Energy Services

API No.

15-167-23,819-00-00

Company **Roberts Resources, Inc.**

Well **Beran-Trapp #1-7**

Field

County **Russell** State **Kansas**

Location **1859' FNL & 802' FEL**

Sec: **7** Twp: **12 S** Rge: **13 W**

Permanent Datum **Ground Level** Elevation **1614**

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

Drilling Measured From **Kelly Bushing**

Other Services  
CNL/CDL  
DIL

Elevation  
K.B. 1624  
D.F. 1614  
G.L. 1614

Date **9/5/2012**

Run Number **One**

Depth Driller **3450**

Depth Logger **3449**

Bottom Logged Interval **3428**

Top Log Interval **1400**

Casing Driller **8.625 @ 441**

Casing Logger **438**

Bit Size **7.875**

Type Fluid in Hole **Chemical**

Salinity, ppm CL **9200**

Density / Viscosity **9.4 51**

pH / Fluid Loss **10.5 9.2**

Source of Sample **Flowline**

Rm @ Meas. Temp **.22 @ 82**

Rmf @ Meas. Temp **.17 @ 82**

Rmc @ Meas. Temp **.30 @ 82**

Source of Rmf / Rmc **Charts**

Rm @ BHT **.16 @ 111**

Operating Rig Time **4 Hours**

Max Rec. Temp. F **111**

Equipment Number **17**

Location **Hays**

Recorded By **D. Martin**

Witnessed By **Kent Roberts**

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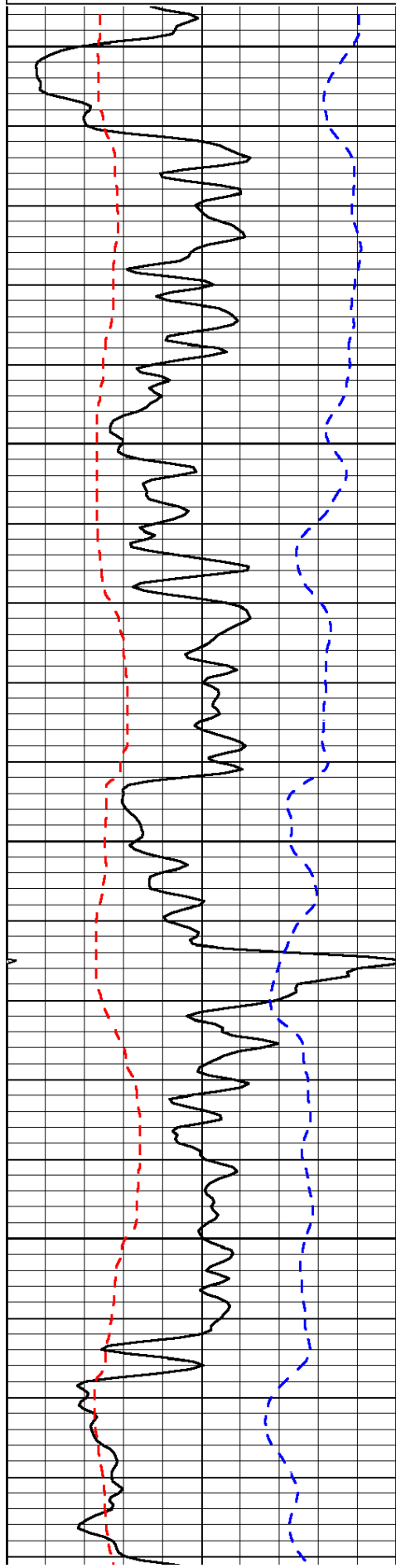
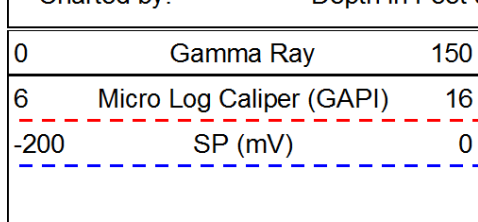
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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

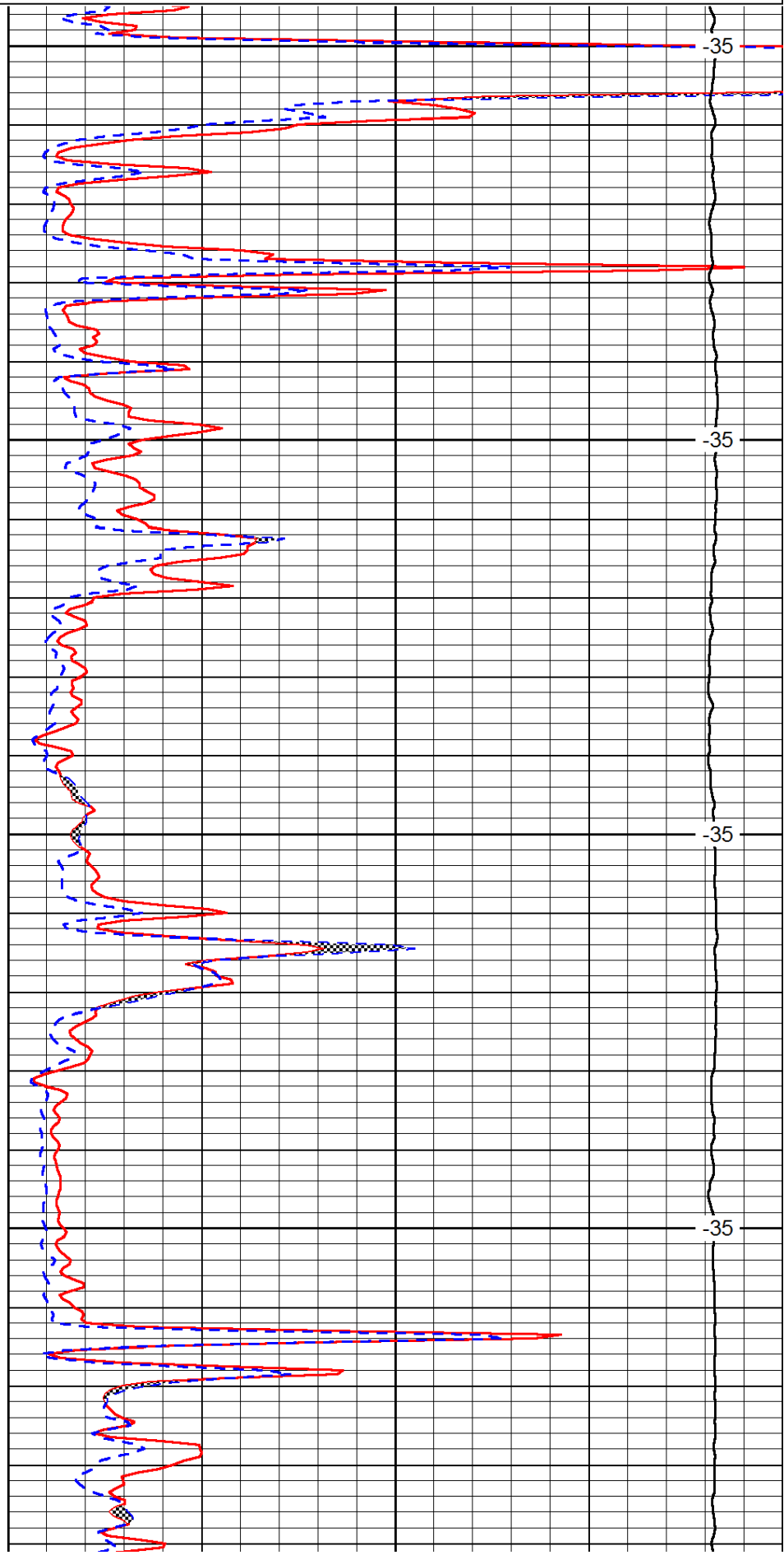
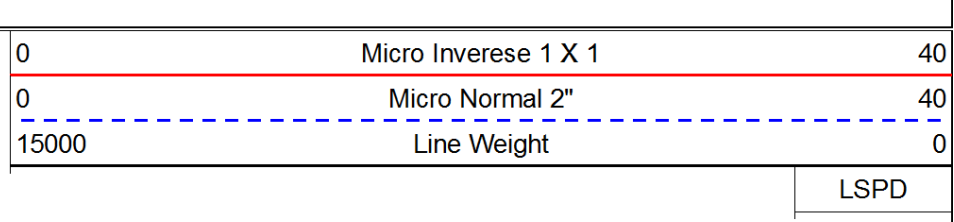
Thank you for using Pioneer Energy Services  
[www.pioneerres.com](http://www.pioneerres.com)  
785 625 3858

Russell, KS  
9 N to Beatty Rd., 2 3/4 E, N Into

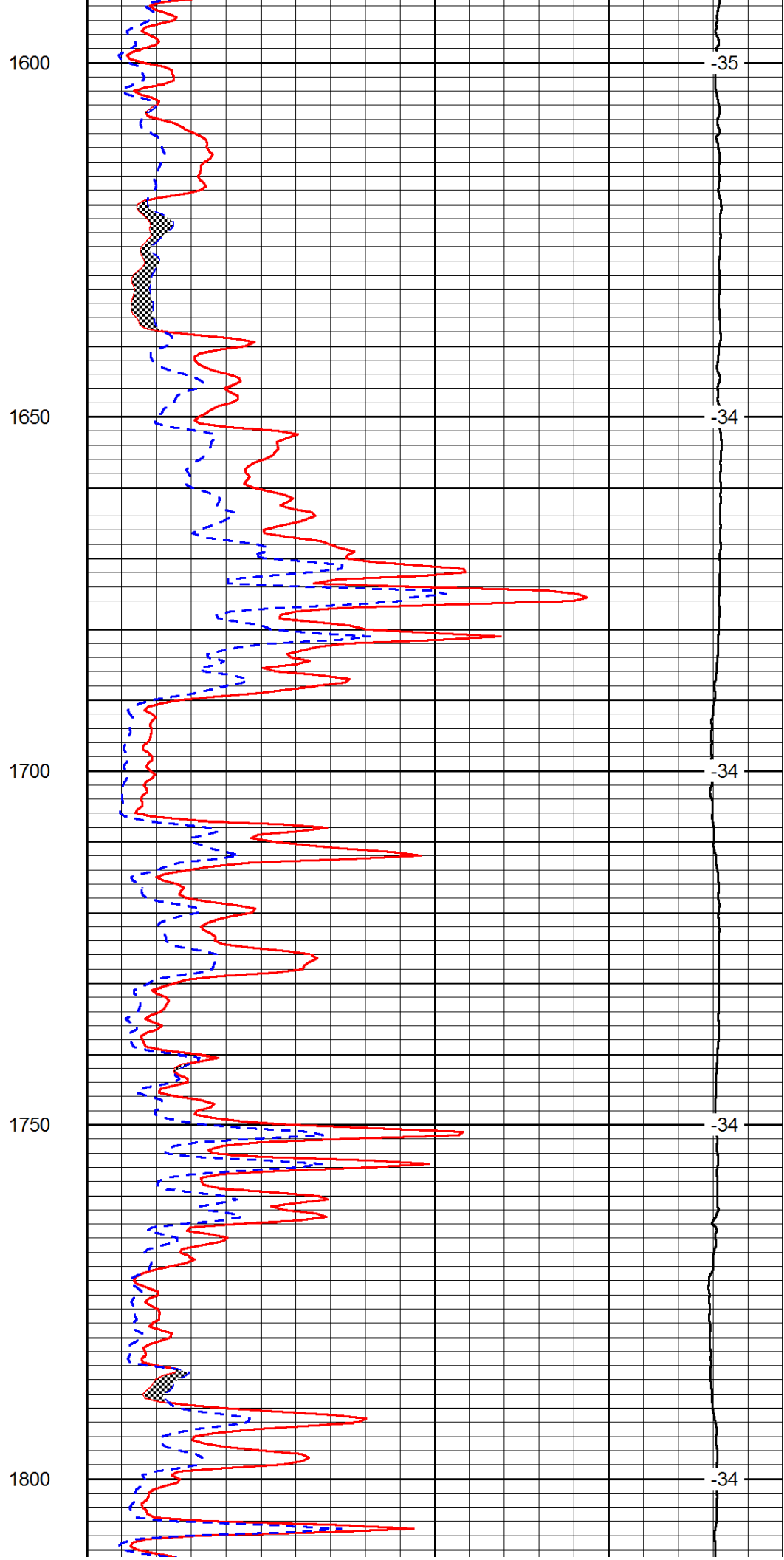
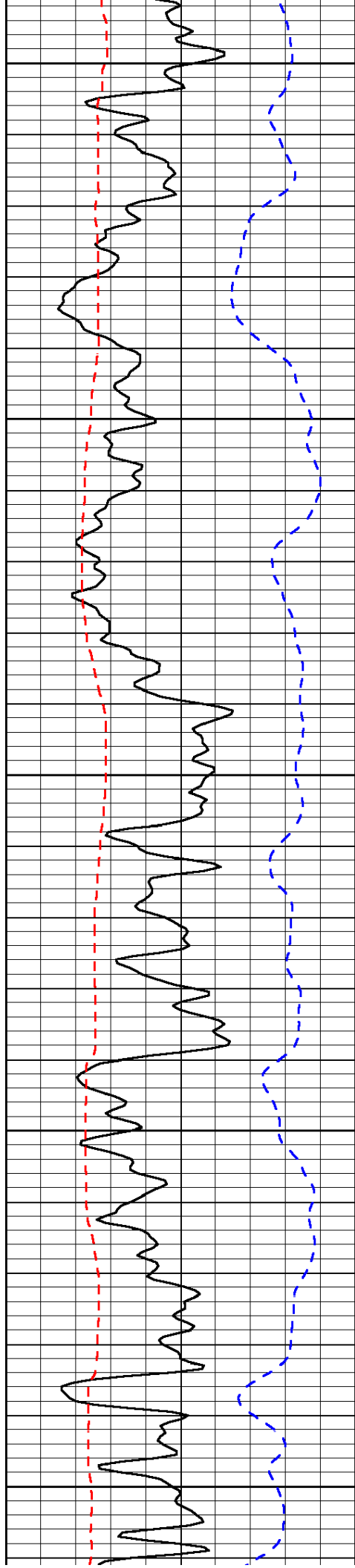
Database File: c:\warrior\data\roberts\_beran-trapp #1-7\robhd.db  
Dataset Pathname: DIL/robstm  
Presentation Format: micro  
Dataset Creation: Wed Sep 05 21:36:24 2012  
Charted by: Depth in Feet scaled 1:240

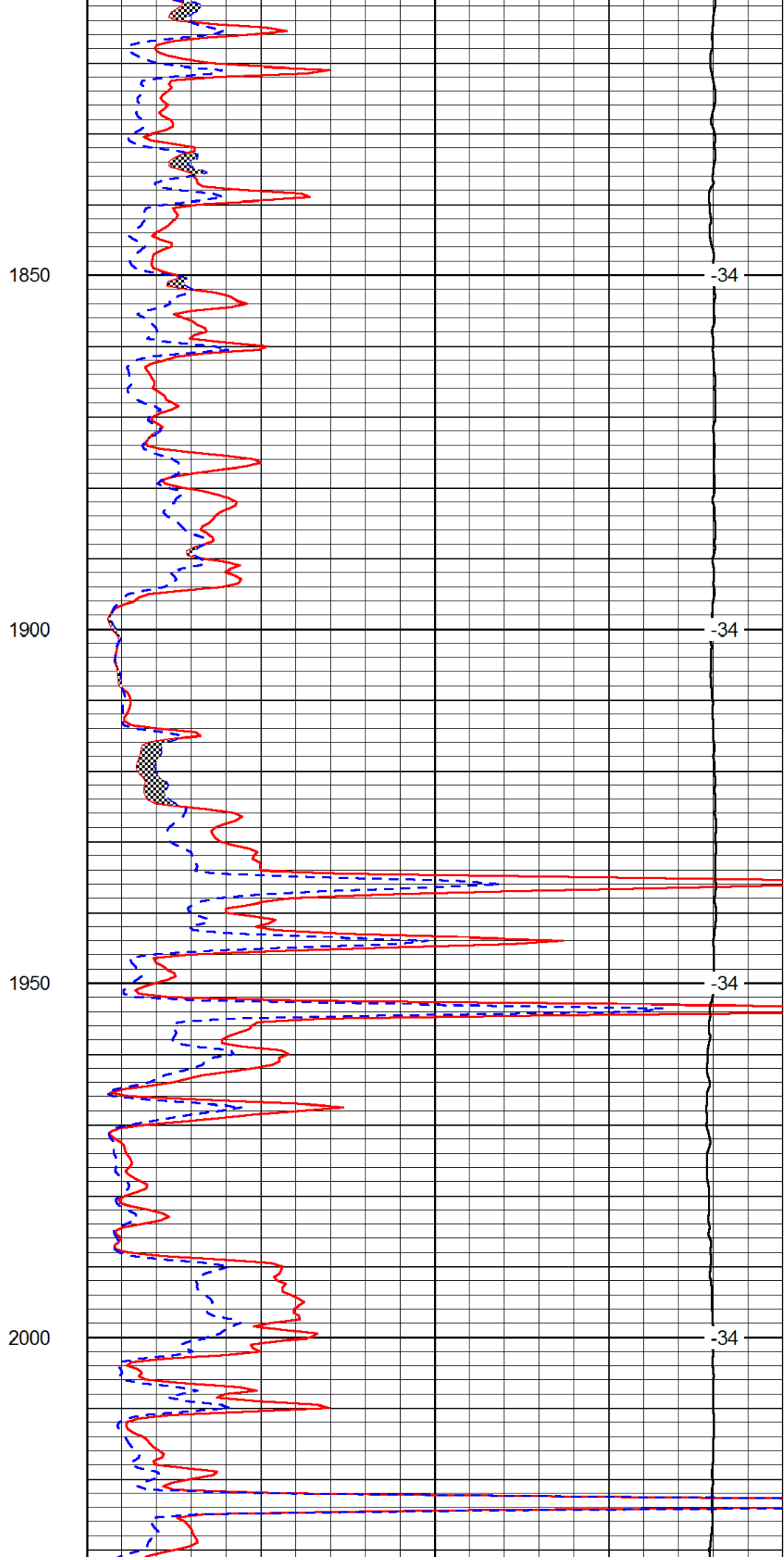
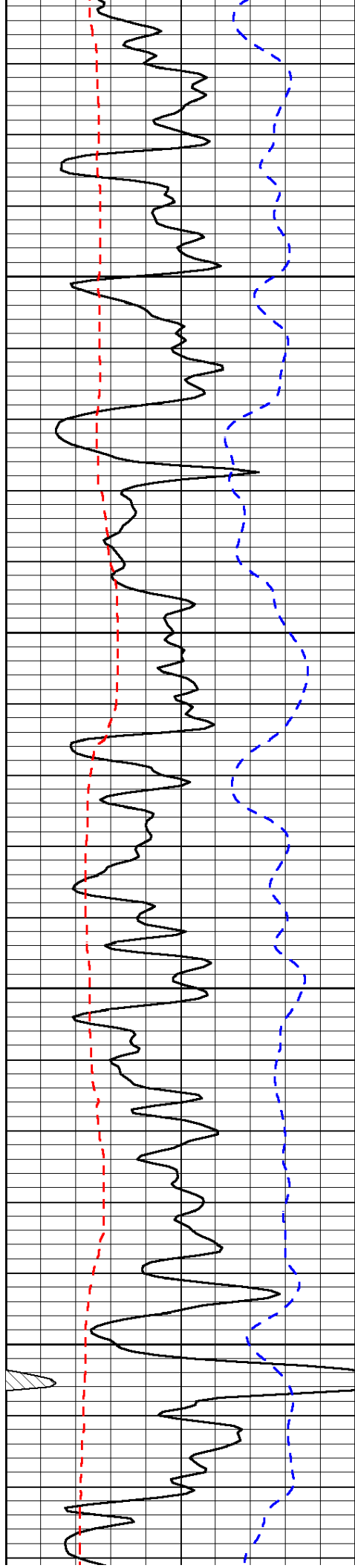


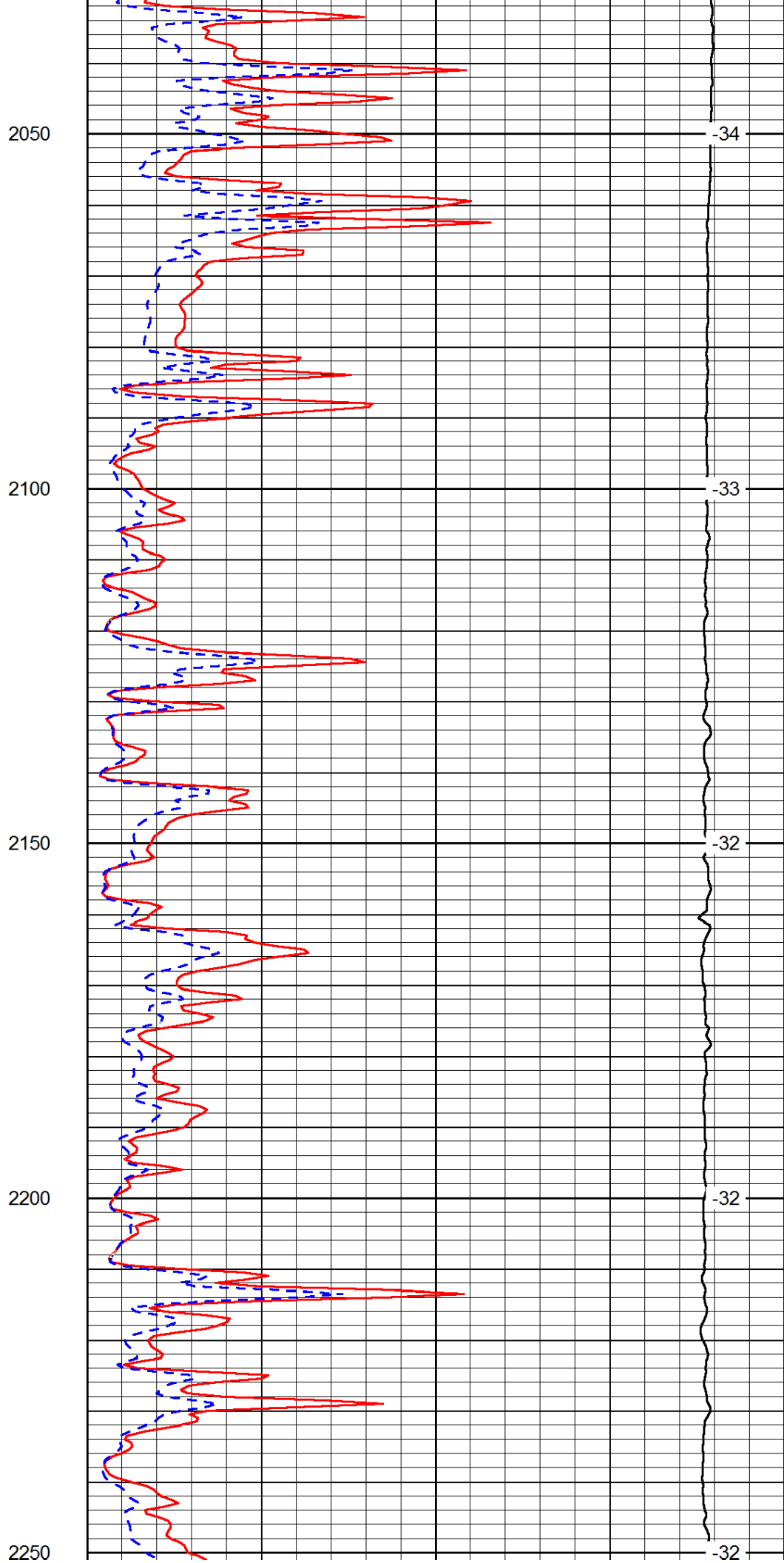
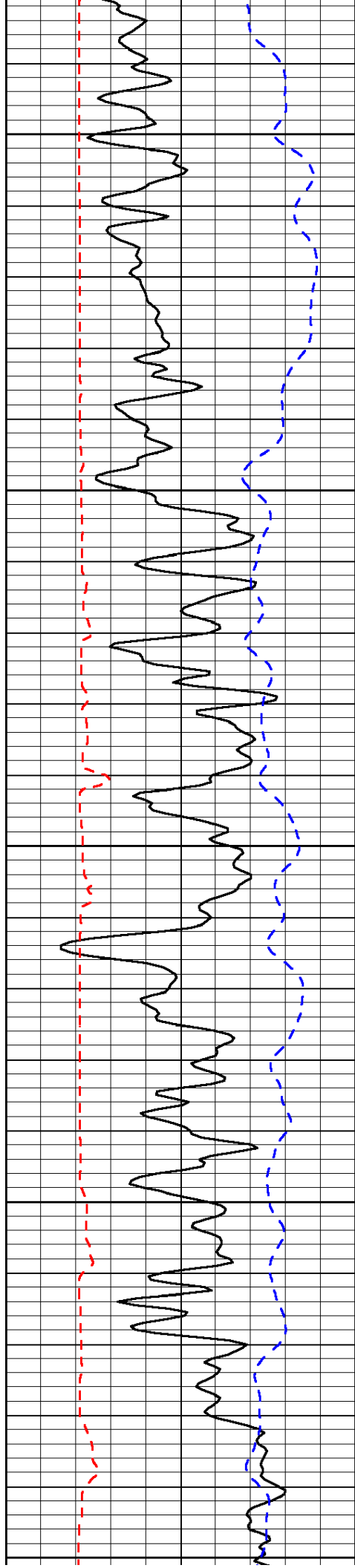
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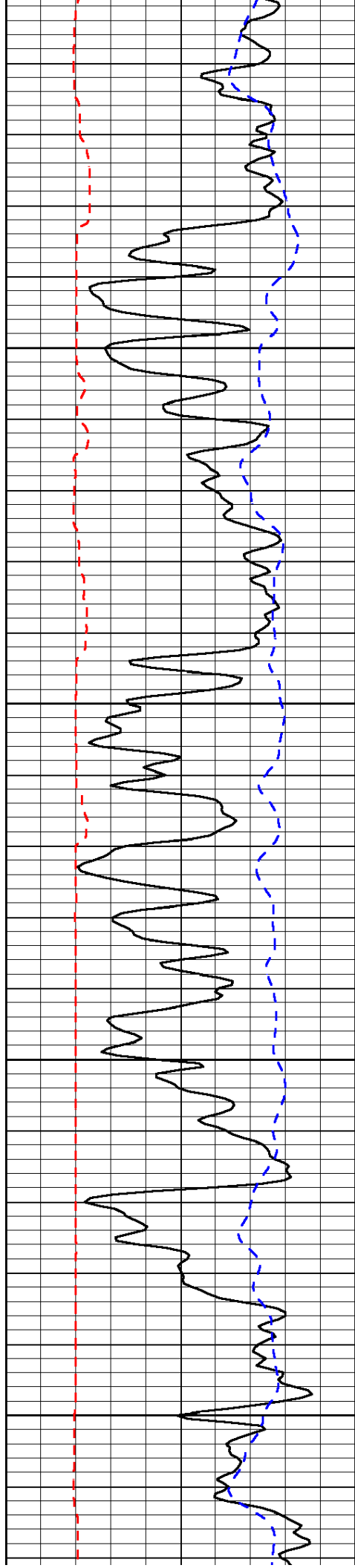


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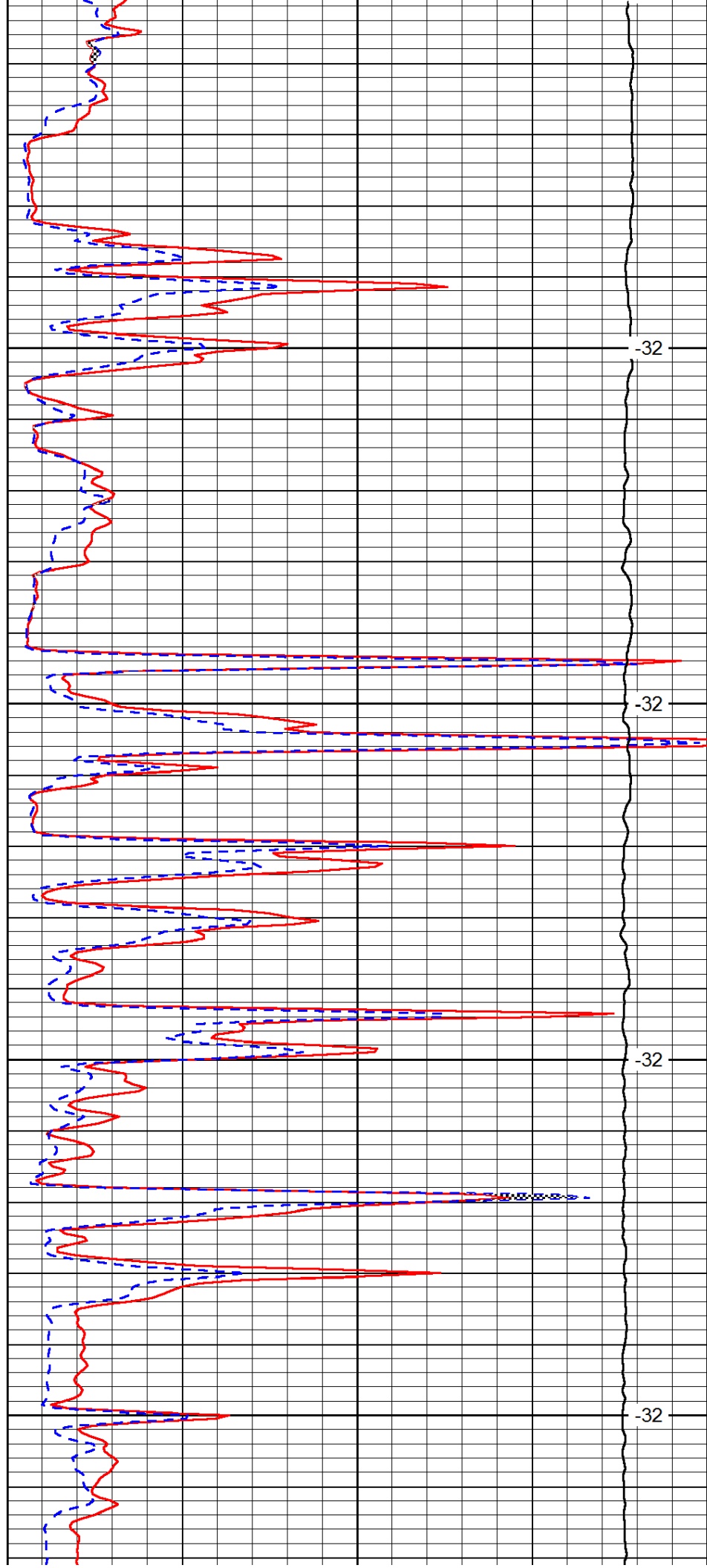


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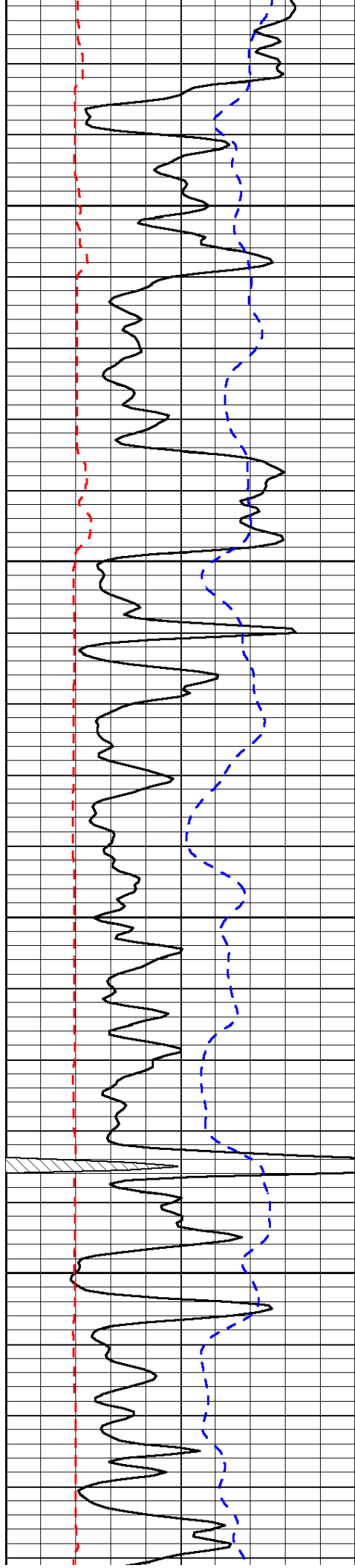


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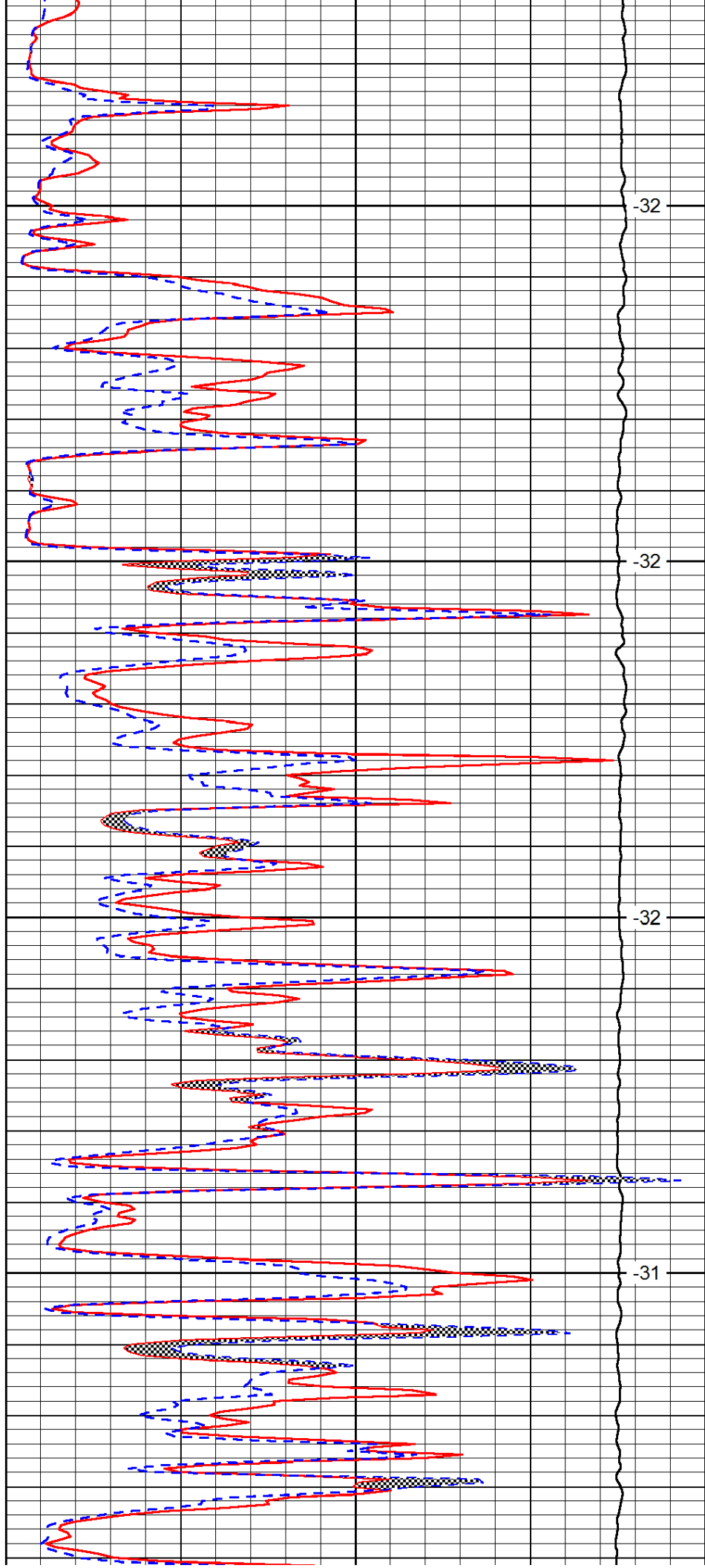


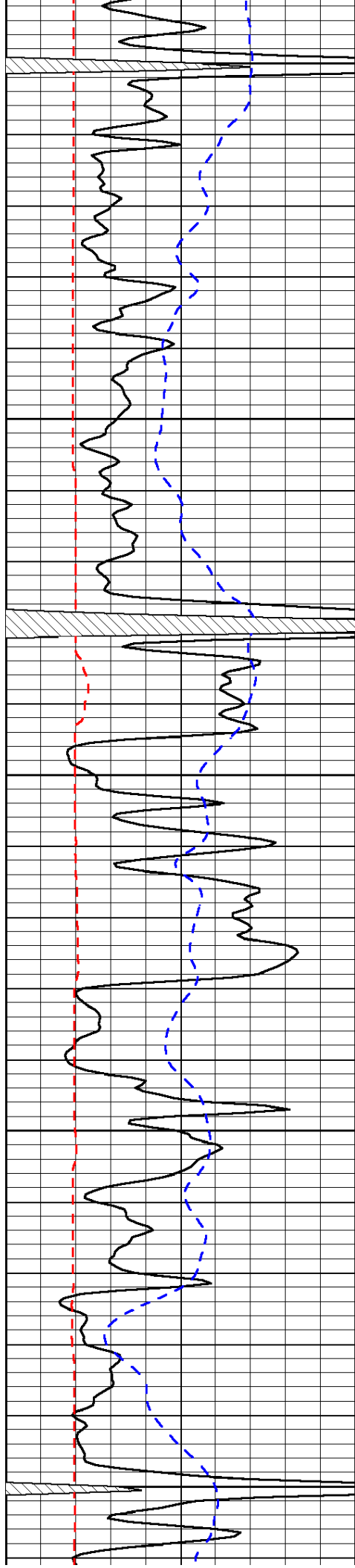
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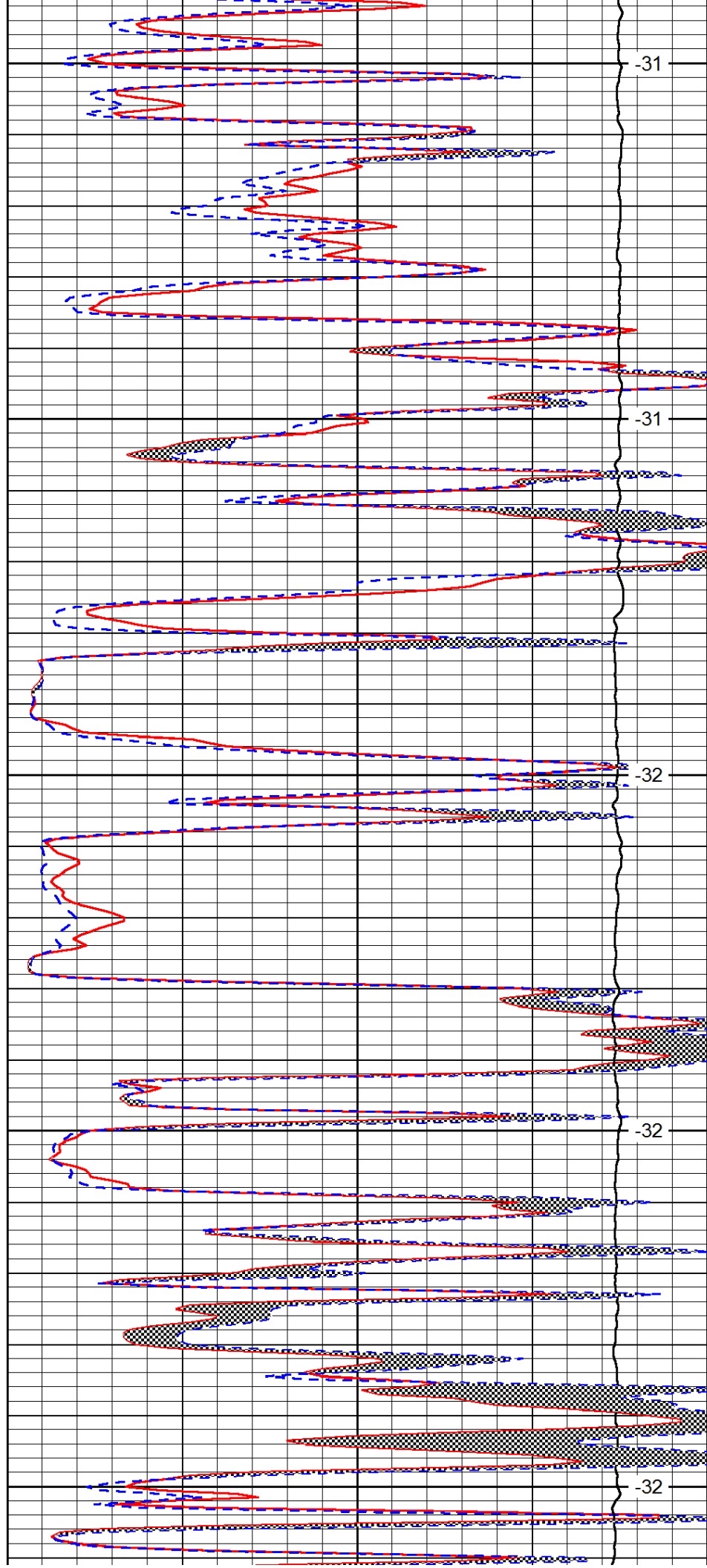
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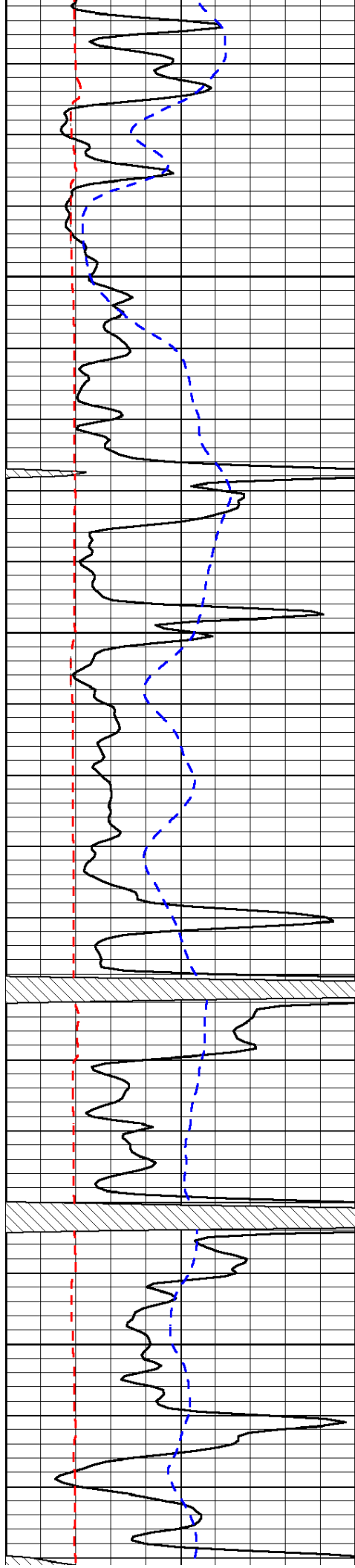
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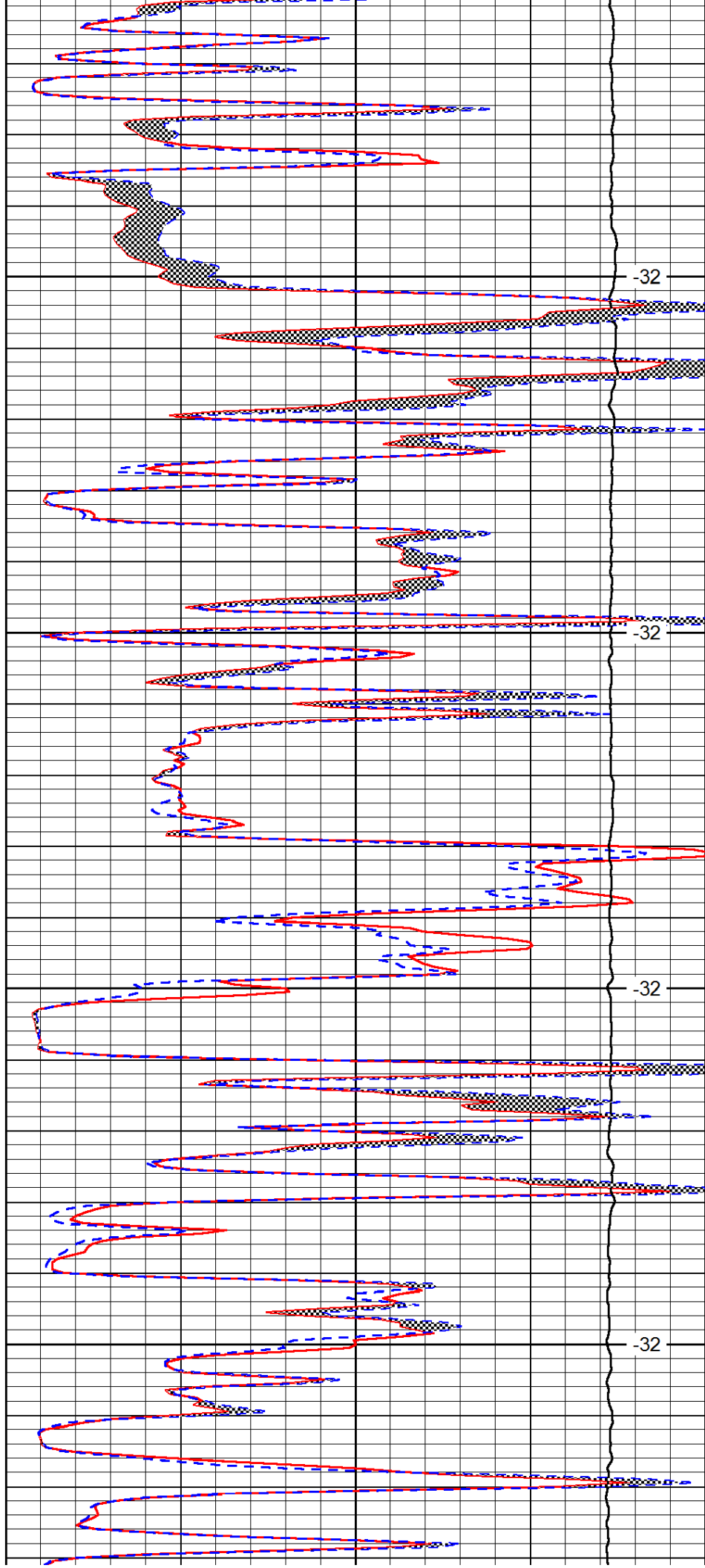


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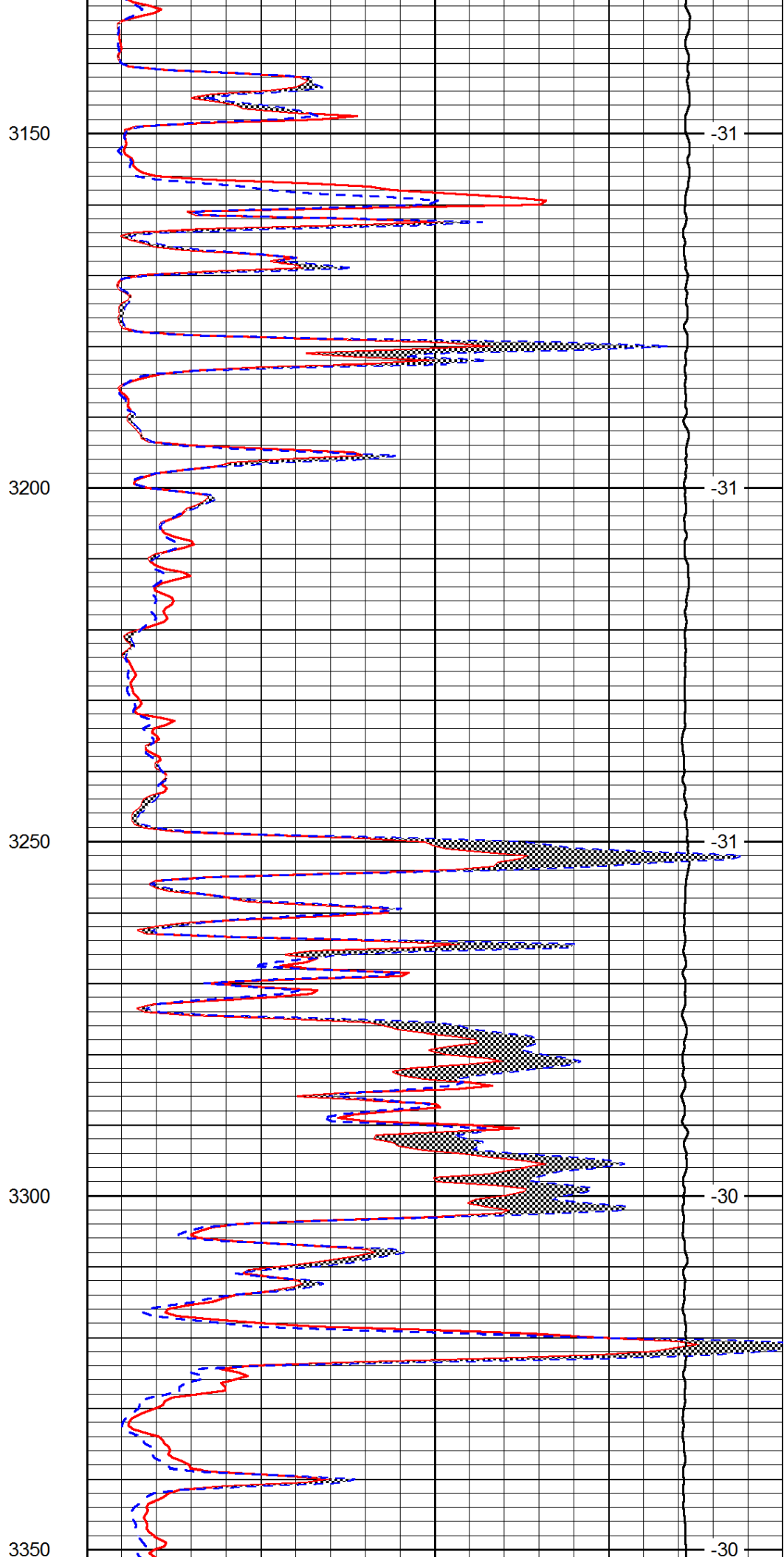
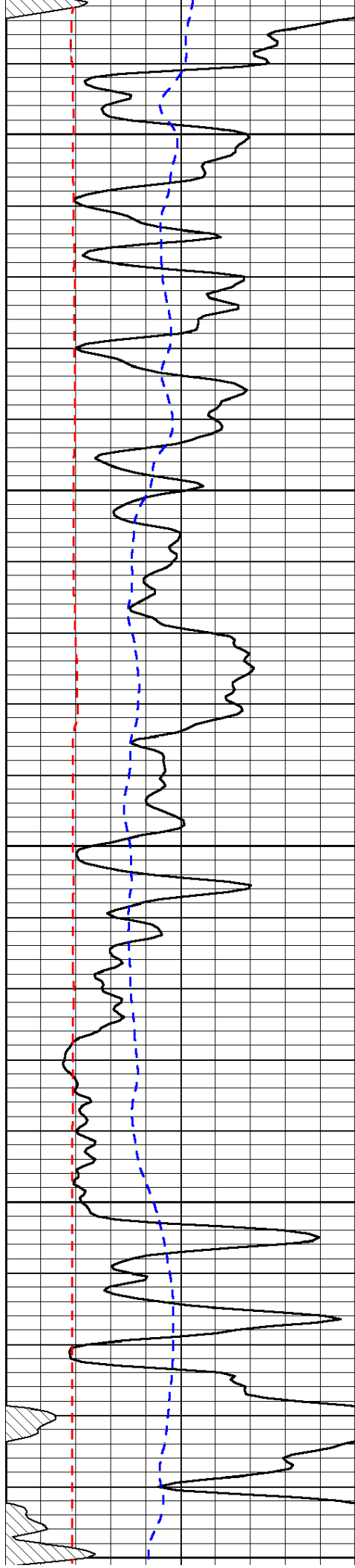


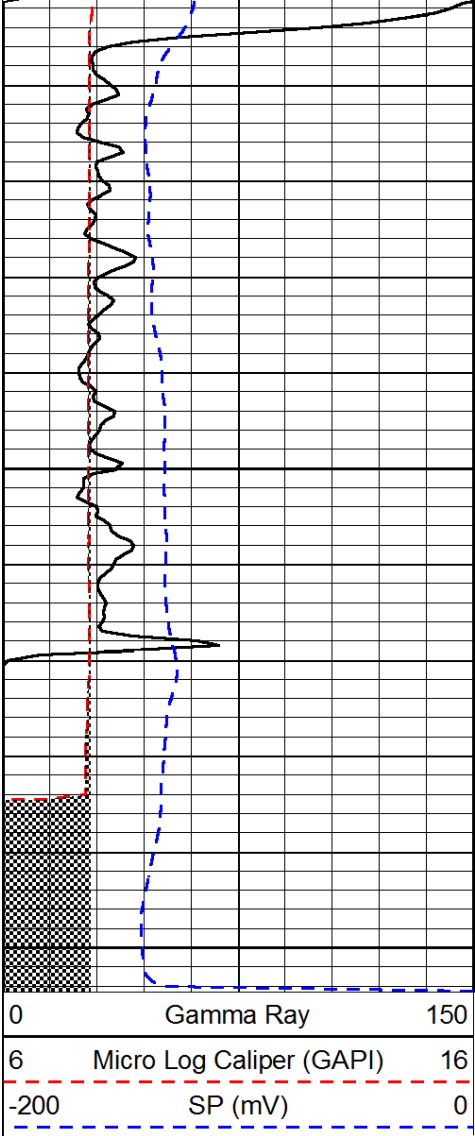
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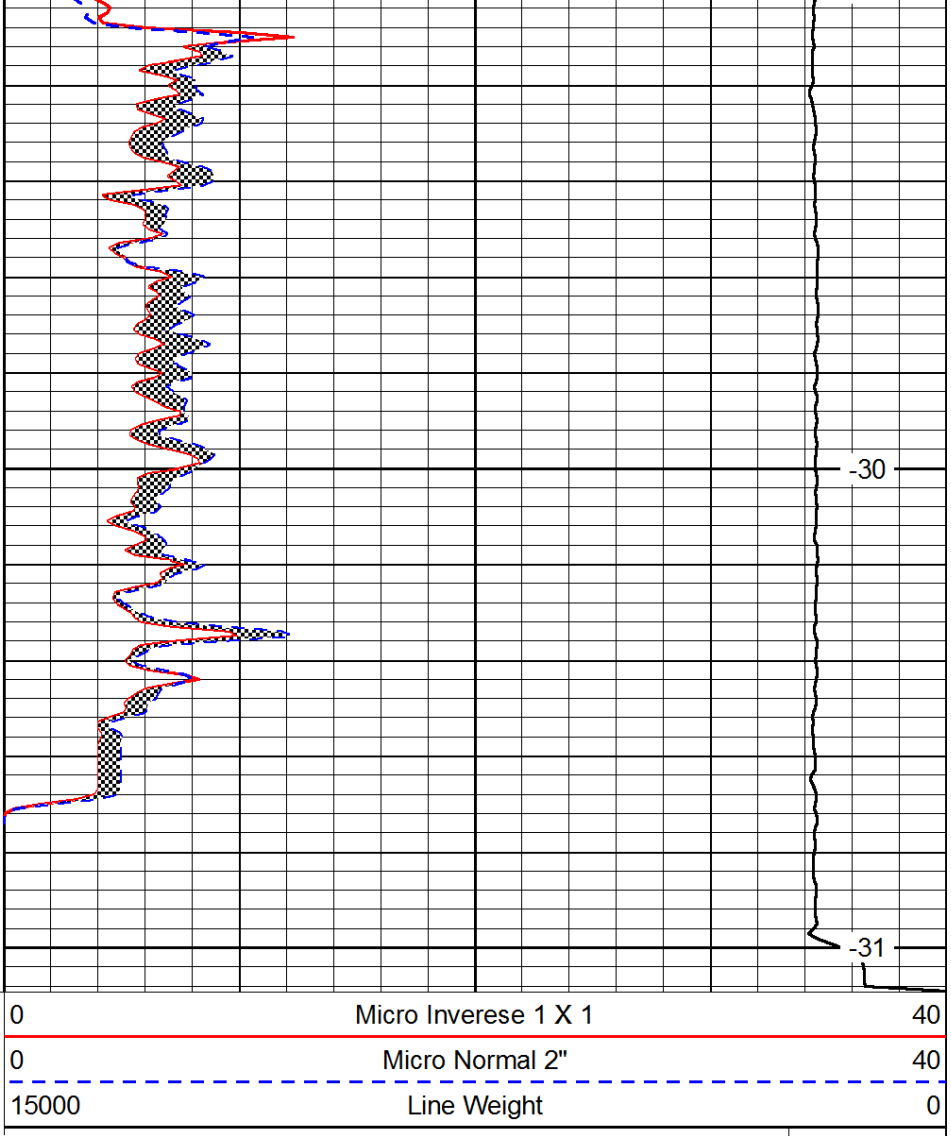
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LSPD