



Microresistivity Log

Pioneer Energy Services

API No.

15-155-21,616-00-00

Company **Carrie Exploration & Development**

Well **James C - 1**

Field **Unknown**

County **Reno** State **Kansas**

Location **550' FSL & 2310' FEL**

Sec: **3** Twp: **22 S** Rge: **10 W**

Other Services
CNL/CDL
DIL

Permanent Datum **Ground Level** Elevation **1743**

Log Measured From **Kelly Bushing** 8 Ft. Above Perm. Datum

Drilling Measured From **Kelly Bushing** Elevation **K.B. 1751**
D.F. 1743
G.L. 1743

Date **12/21/2012**

Run Number **Two**

Depth Driller **3630**

Depth Logger **3627**

Bottom Logged Interval **3626**

Top Log Interval **2500**

Casing Driller **8.625 @ 275**

Casing Logger **276**

Bit Size **7.875**

Type Fluid in Hole **Chemical**

Salinity,ppm CL **5,000**

Density / Viscosity **9.4 51**

pH / Fluid Loss **9.5 N/A**

Source of Sample **Flowline**

Rm @ Meas. Temp **.50 @ 65**

Rmf @ Meas. Temp **.38 @ 65**

Rmc @ Meas. Temp **.68 @ 65**

Source of Rmf / Rmc **Charts**

Rm @ BHT **.29 @ 112**

Operating Rig Time **4 1/2 Hours**

Max Rec. Temp. F **112**

Equipment Number **108**

Location **Hays**

Recorded By **D. Martin**

Witnessed By **Herb Deines**

Herb Deines

Ron Herold

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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

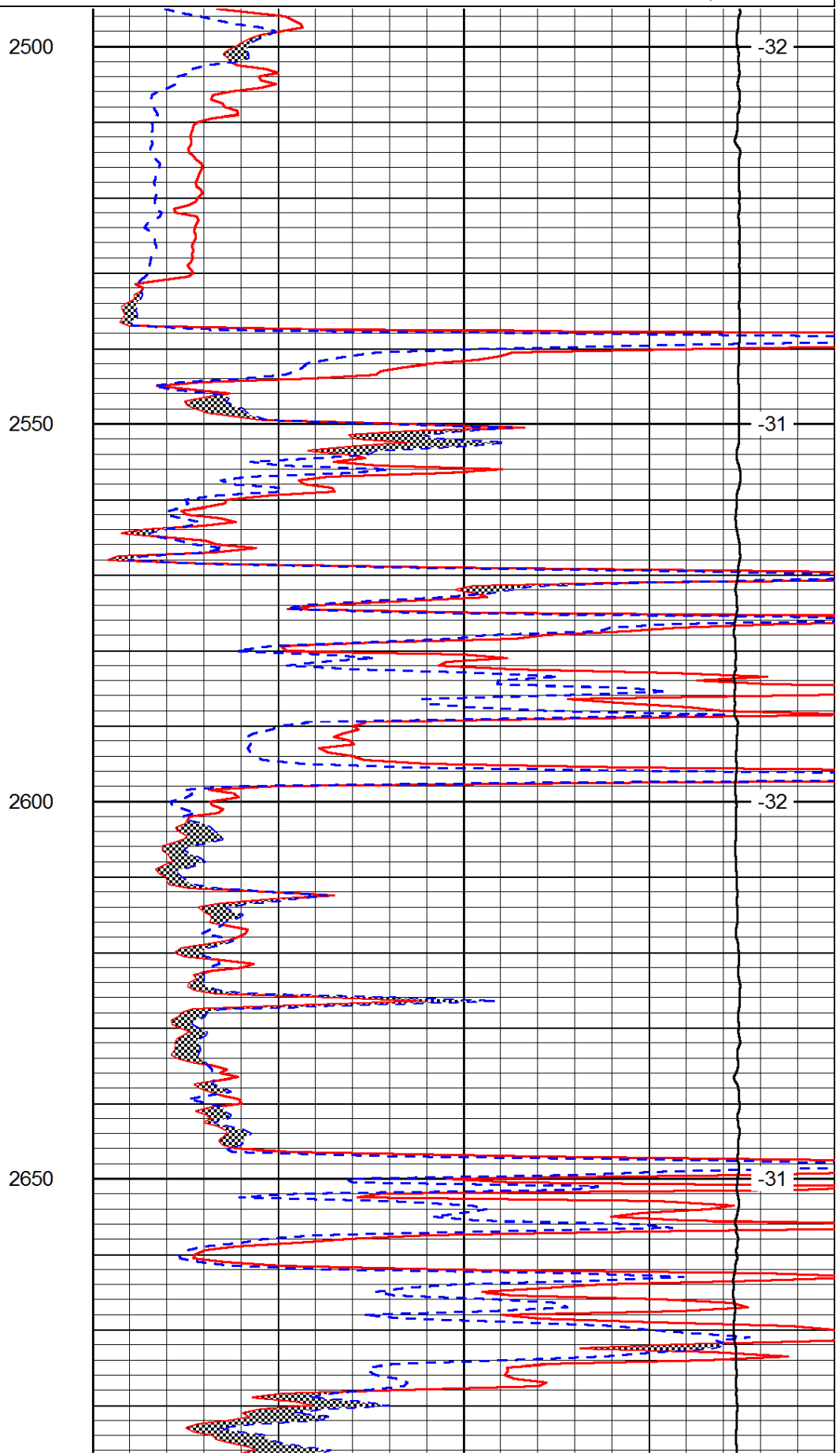
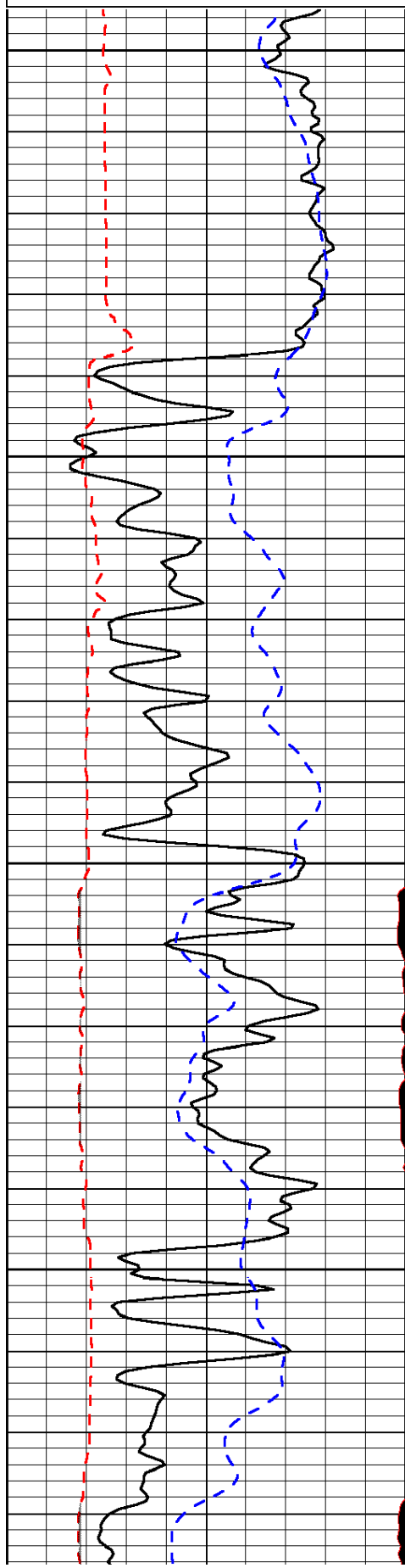
Thank you for using Log-Tech, Inc.
(785) 625-3858

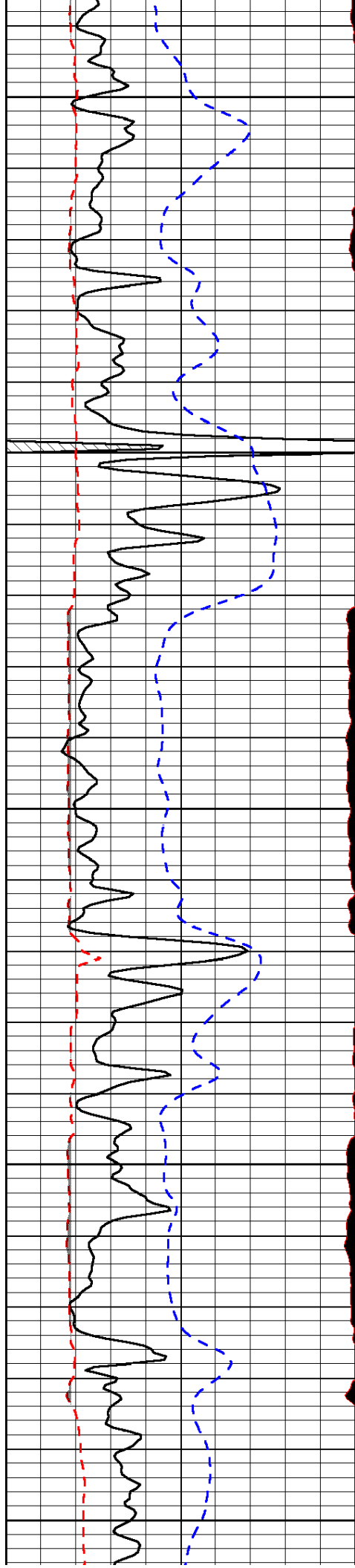
Hwys 281 & 19 Junction,
18 1/2 E, N Into

Database File: carrhd.db
Dataset Pathname: DIL/carstk
Presentation Format: micro
Dataset Creation: Fri Dec 21 07:24:04 2012
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)





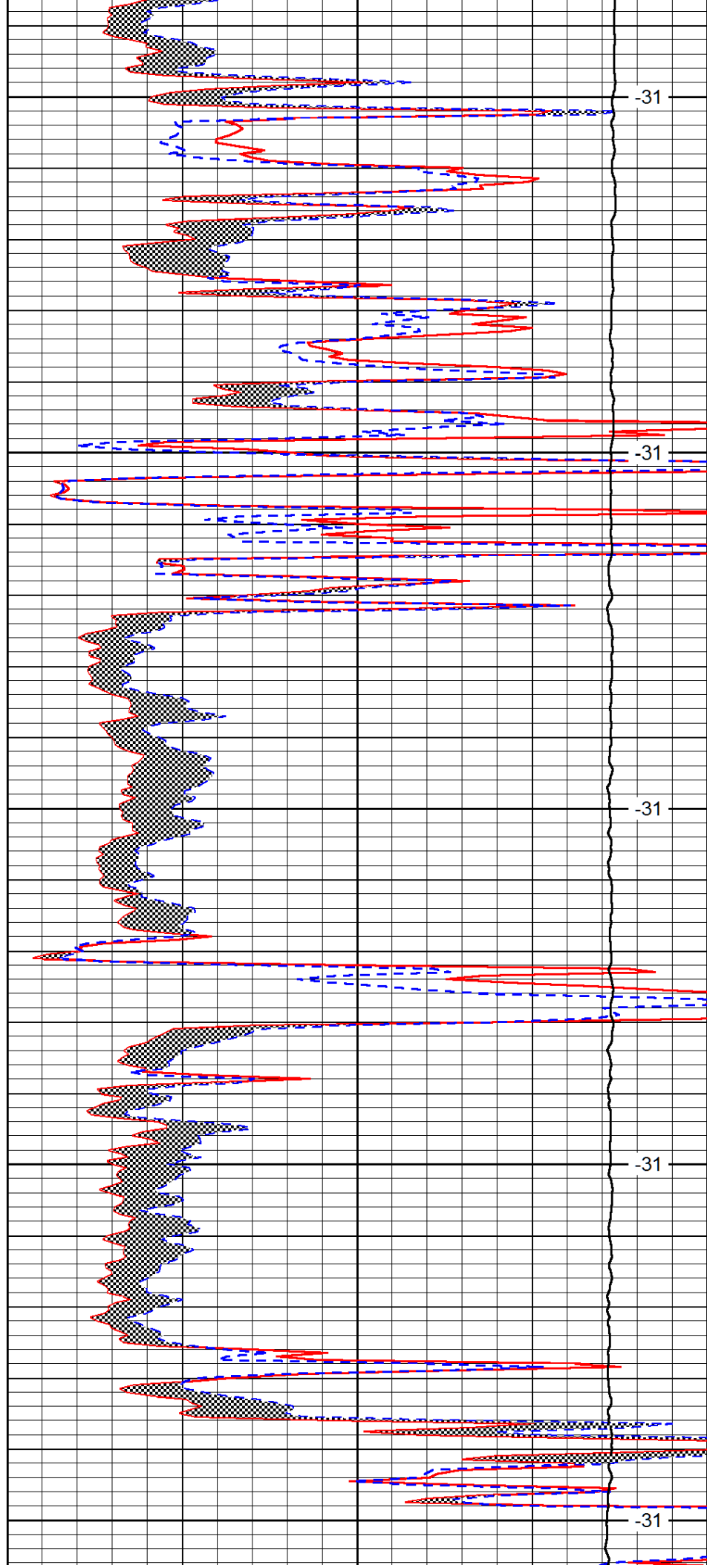
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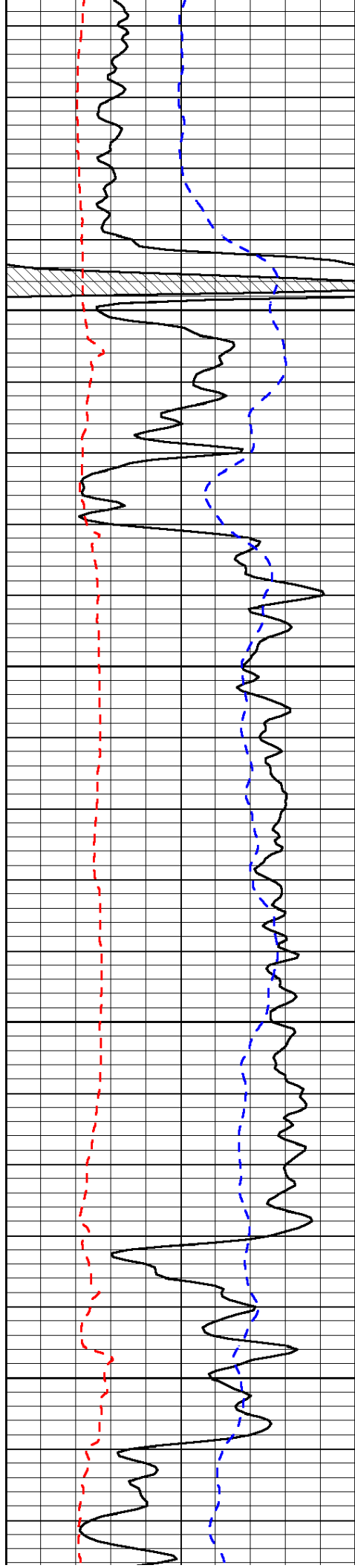
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2850

2900



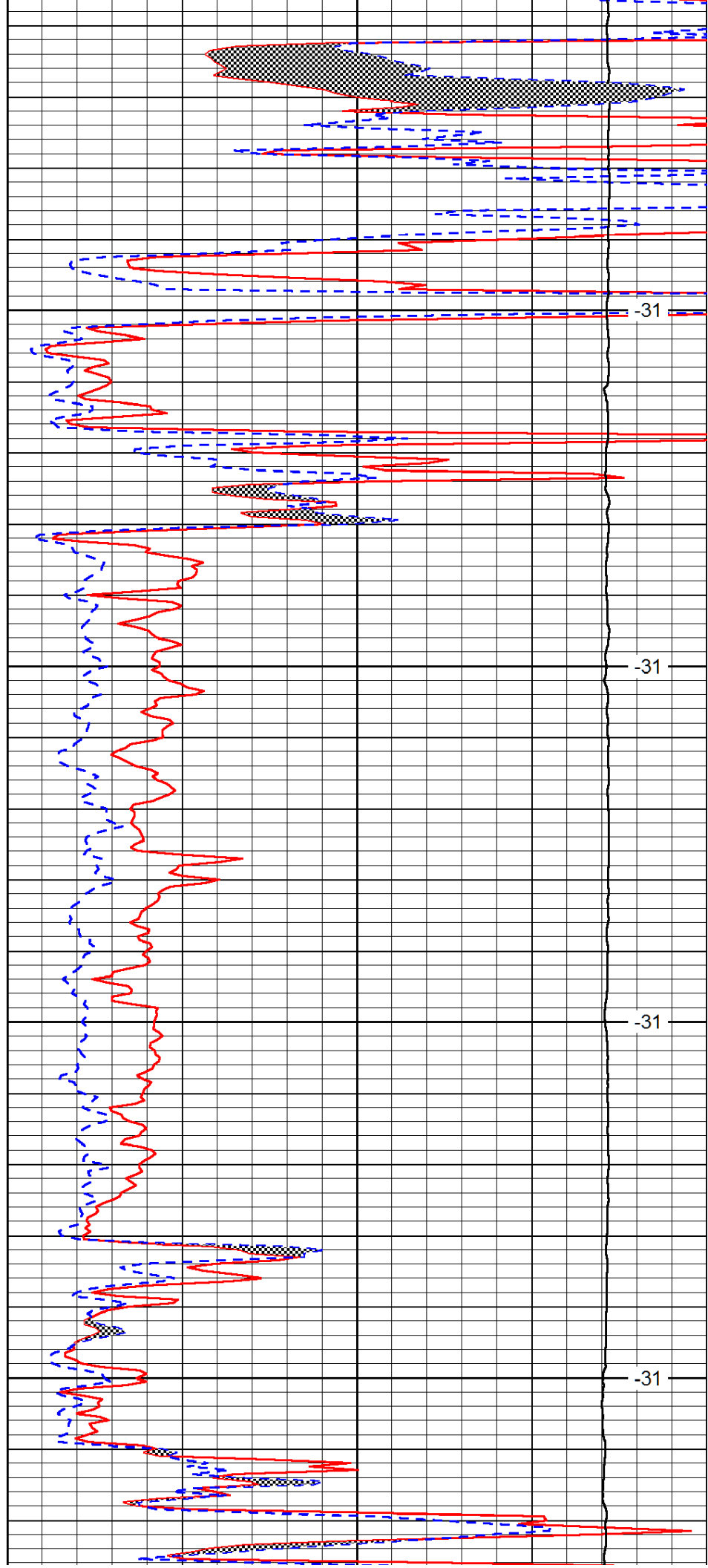


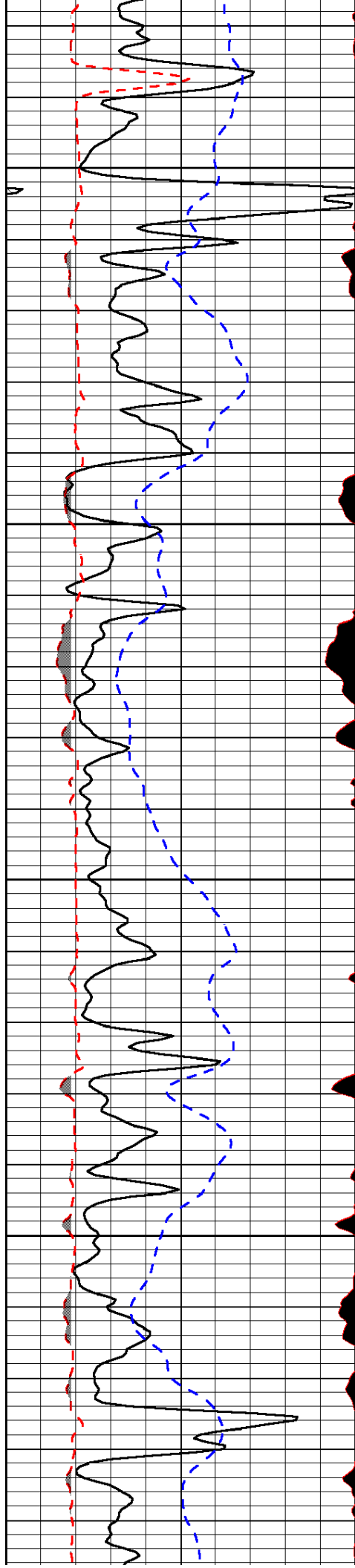
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3000

3050

3100



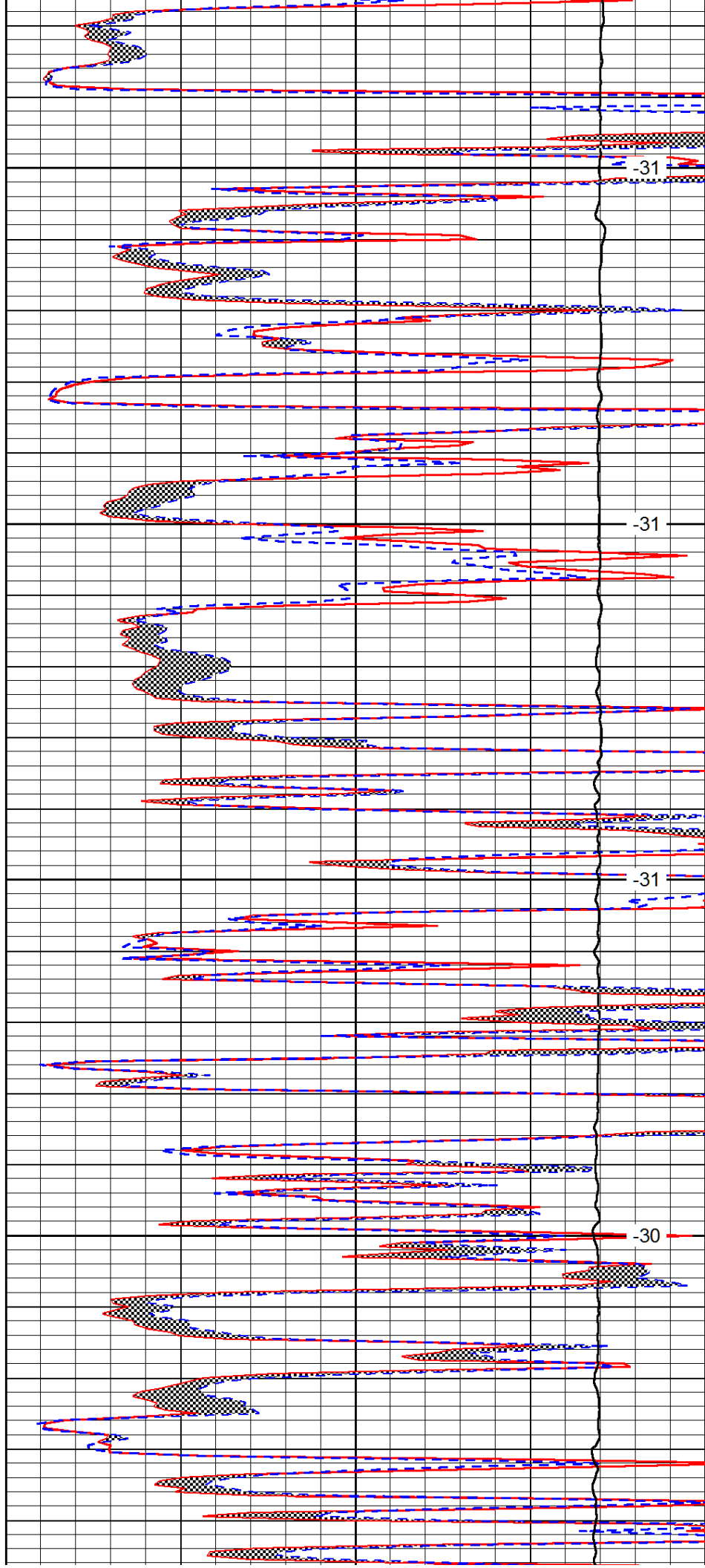


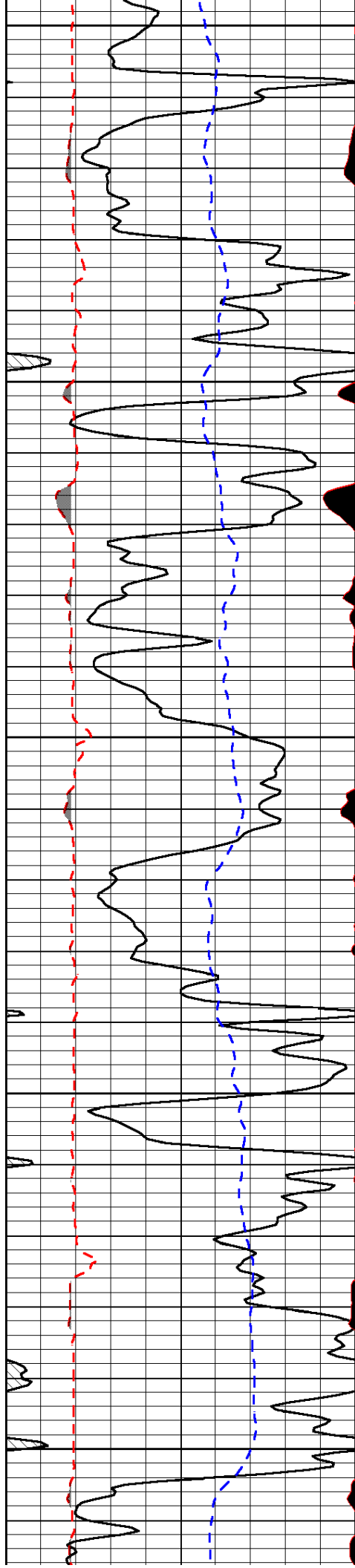
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3200

3250

3300





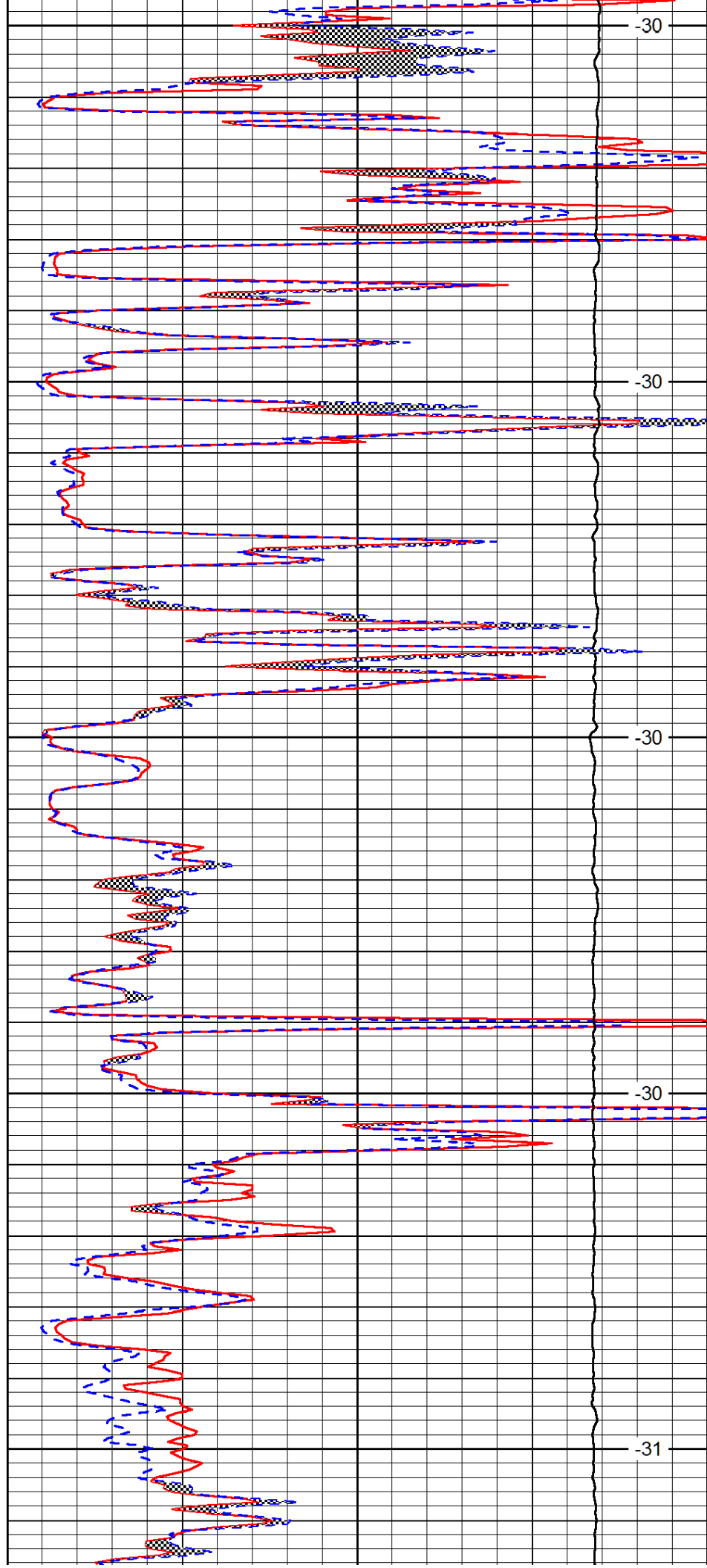
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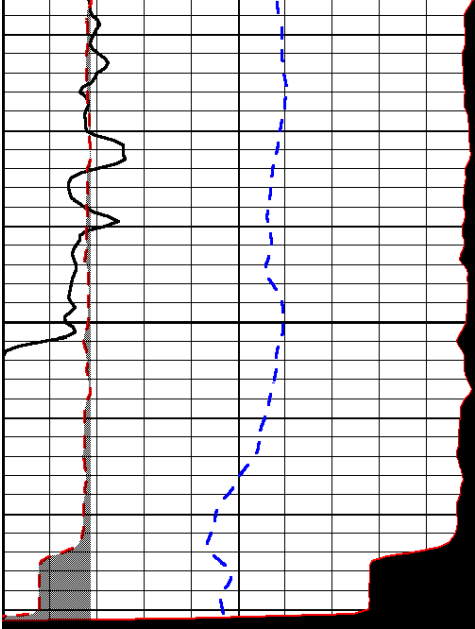
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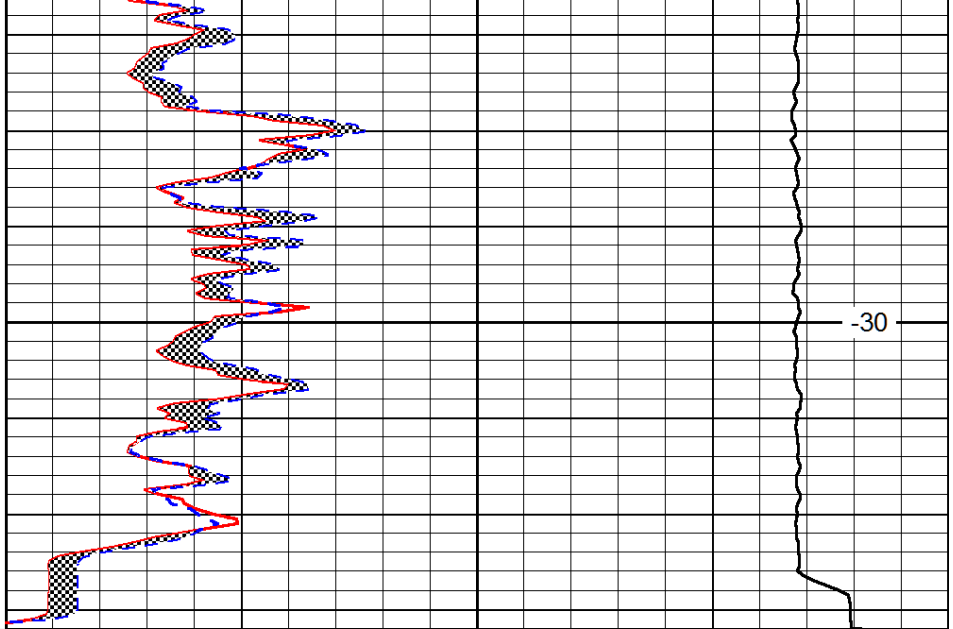
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-31



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(ft/min)