



Microresistivity Log

Pioneer Energy Services

API No.

15-055-22,263-00-00

Company American Warrior, Inc.

Well Congdon No. 9-28

Field Congdon

County Finney State

Kansas

Location 1616' FSL & 1137' FEL

Sec: 28

Twp: 23S

Rge: 32W

Elevation

K.B. 2856

D.F. 2845

G.L. 2845

Permanent Datum Ground Level

Log Measured From Kelly Bushing

Drilling Measured From Kelly Bushing

Elevation 2845

11 Ft. Above Perm. Datum

Date 1/19/13

Run Number Two

Depth Driller 4875

Depth Logger 4875

Bottom Logged Interval 4874

Top Log Interval 3800

Casing Driller 8.625 @ 1156

Casing Logger 1155

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity,ppm CL 3,200

Density / Viscosity 9.3 54

pH / Fluid Loss 10.5 7.2

Source of Sample Flowline

Rm @ Meas. Temp .90 @ 75

Rmf @ Meas. Temp .68 @ 75

Rmc @ Meas. Temp 1.22 @ 75

Source of Rmf / Rmc Charts

Rm @ BHT .54 @ 125

Operating Rig Time 5 Hours

Max Rec. Temp. F 125

Equipment Number 108

Location Hays

Recorded By J. Henrickson

Witnessed By Kevin Timson

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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

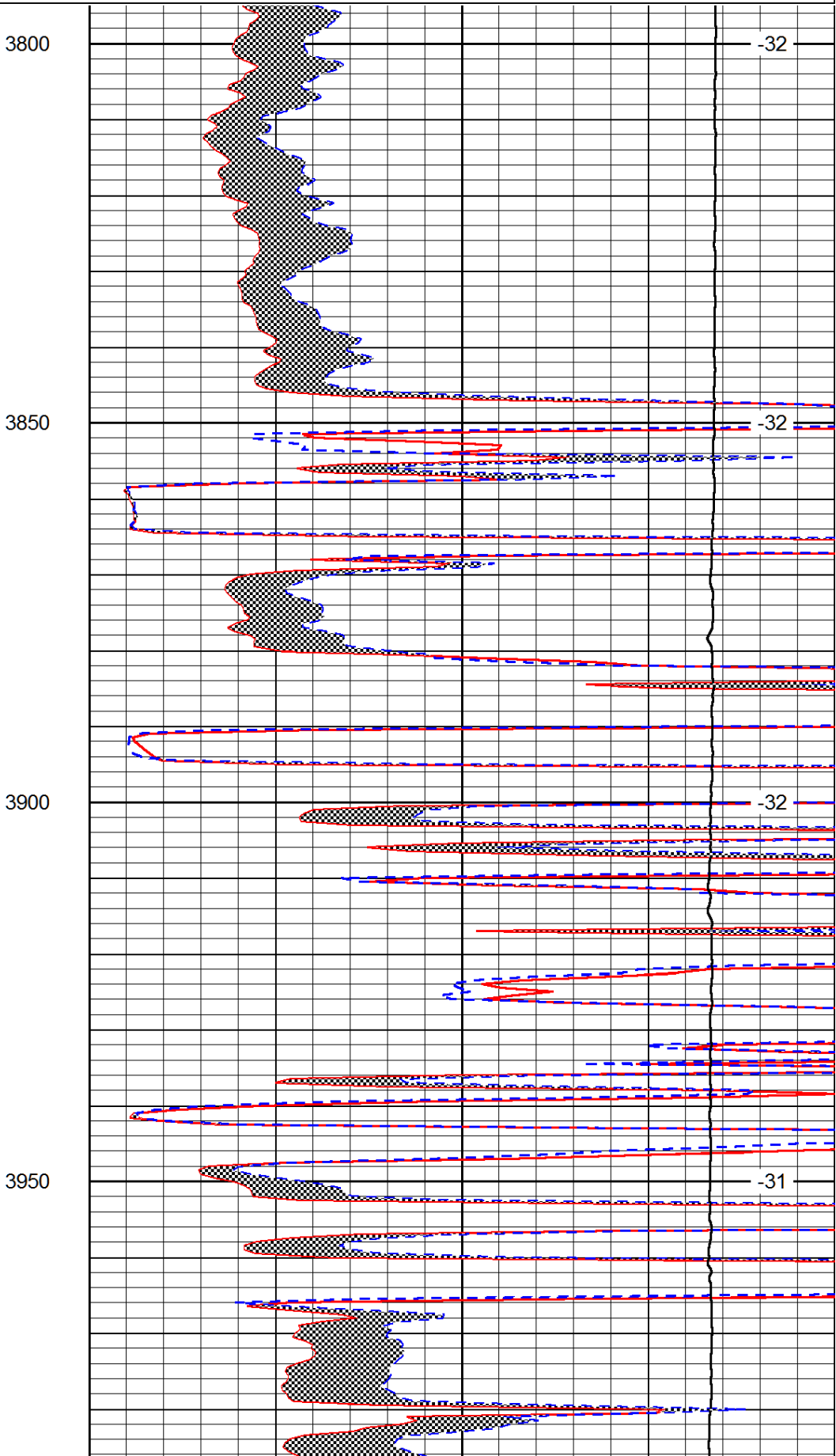
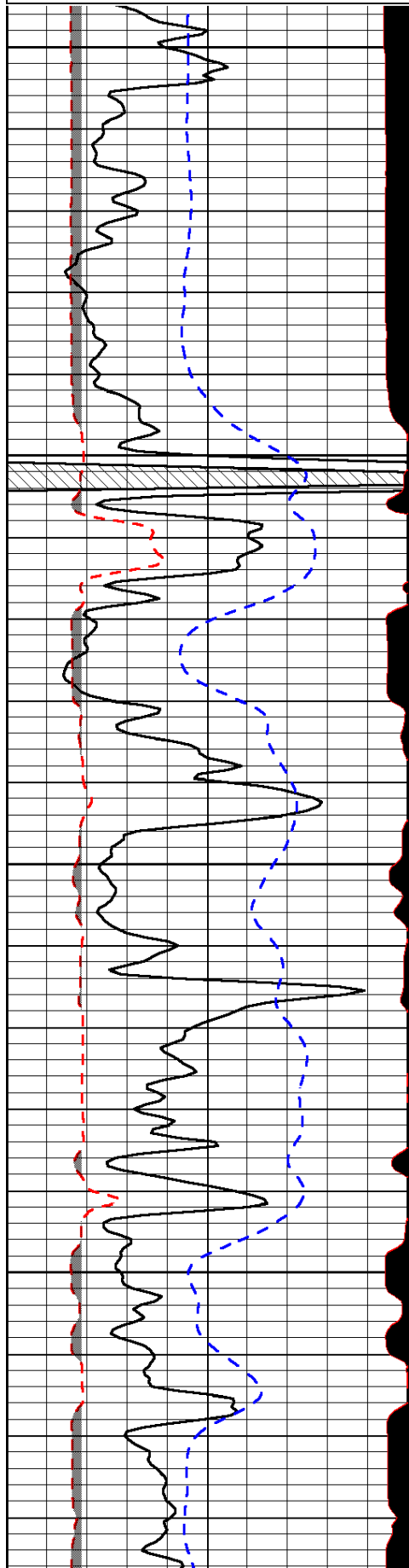
Thank you for using Log-Tech, Inc.
(785) 625-3858

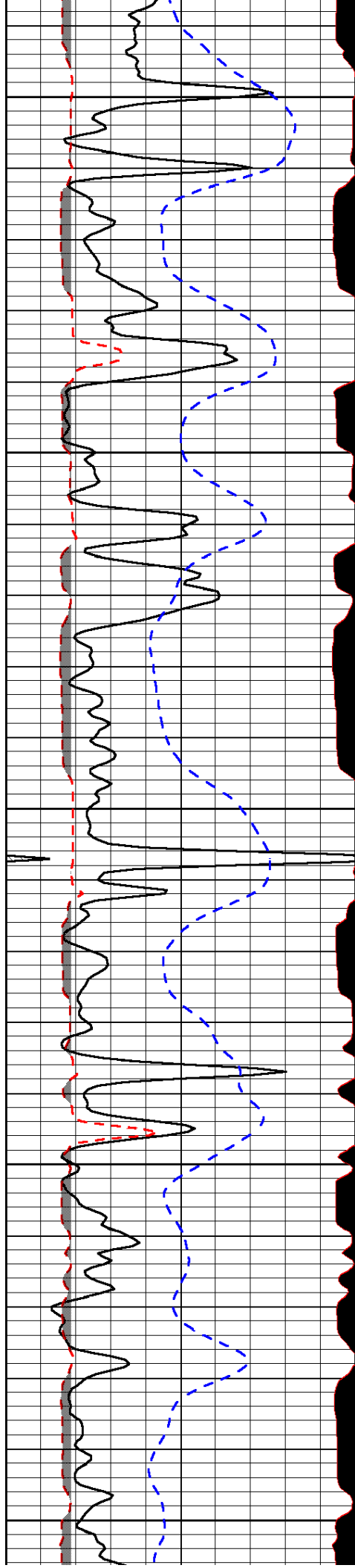
Garden City Kansas
North to Rodkey Rd, 5 1/2 East, North Into

Database File: american_warrior_congdon_9_28hd.db
Dataset Pathname: DIL/amwar
Presentation Format: micro
Dataset Creation: Sun Jan 19 20:37:58 2014
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)





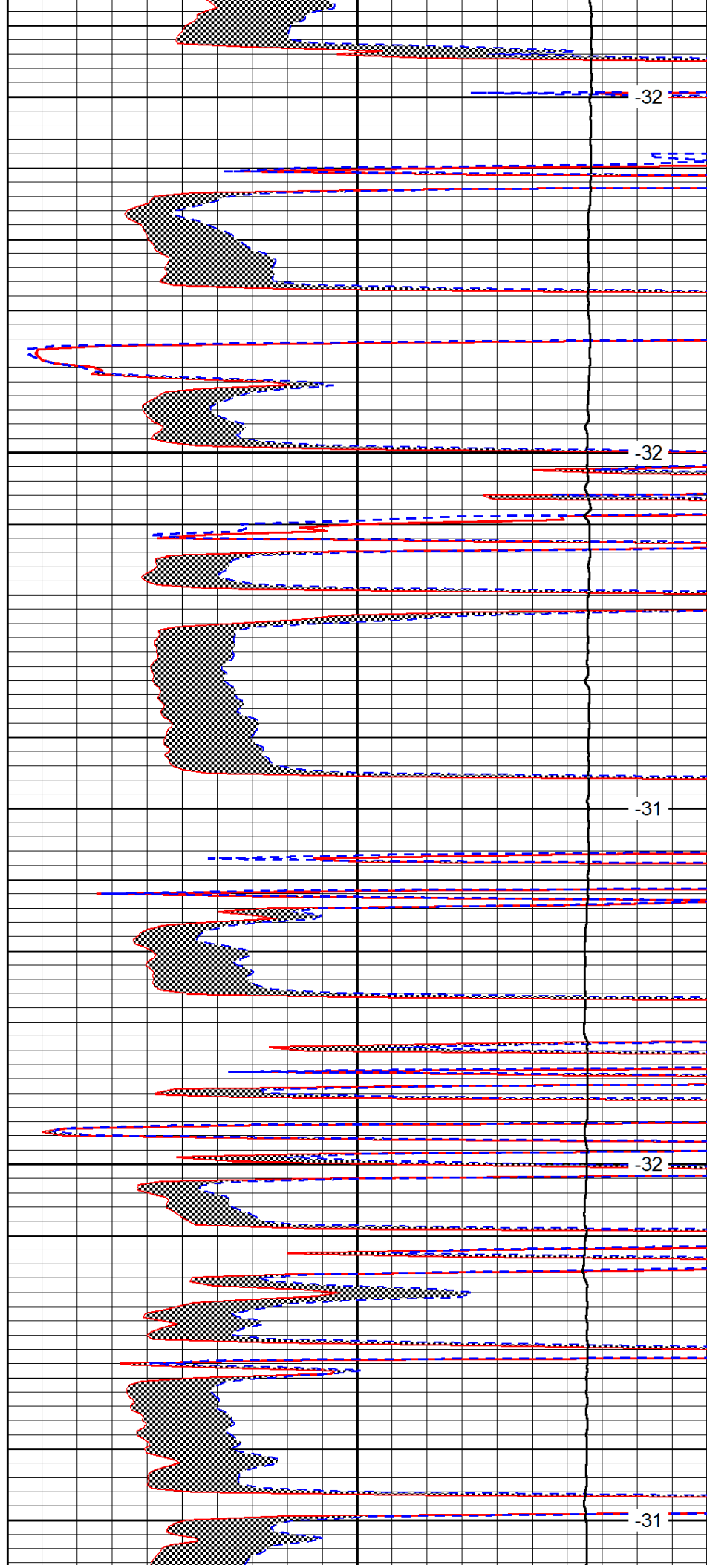
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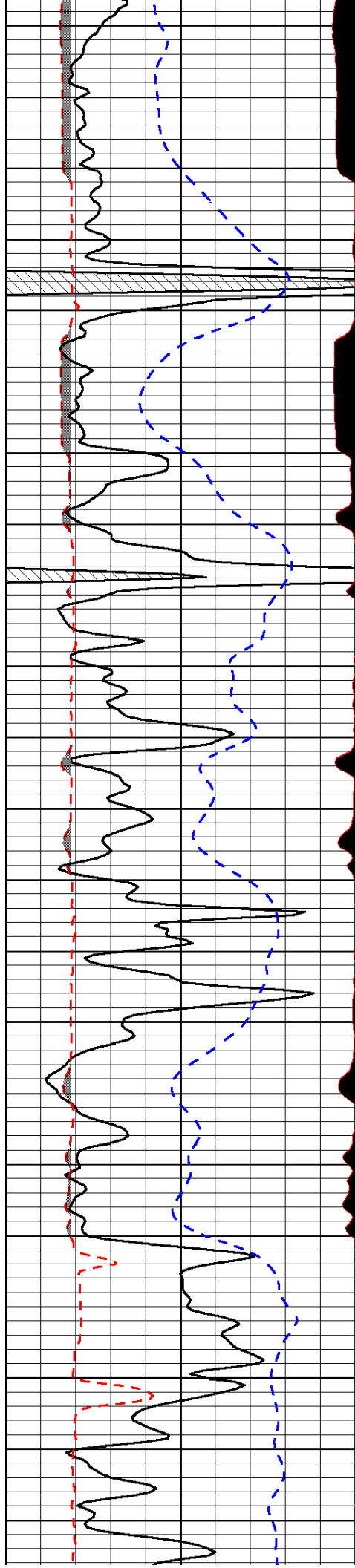
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4150

4200



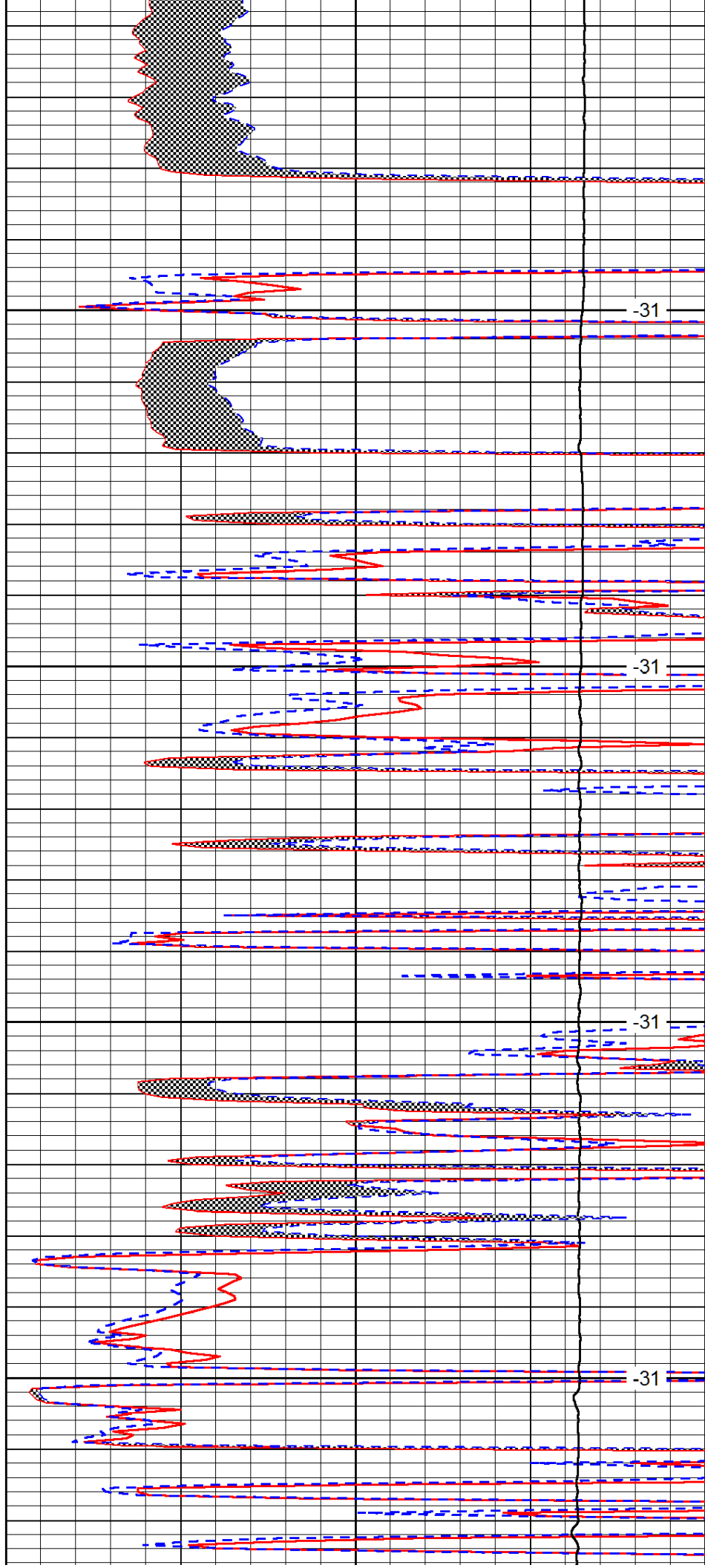


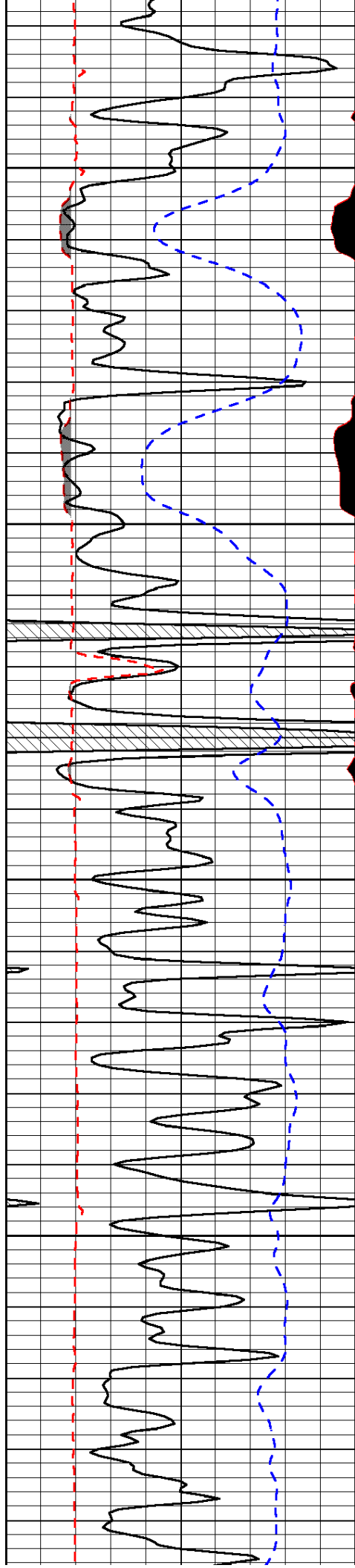
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4350

4400



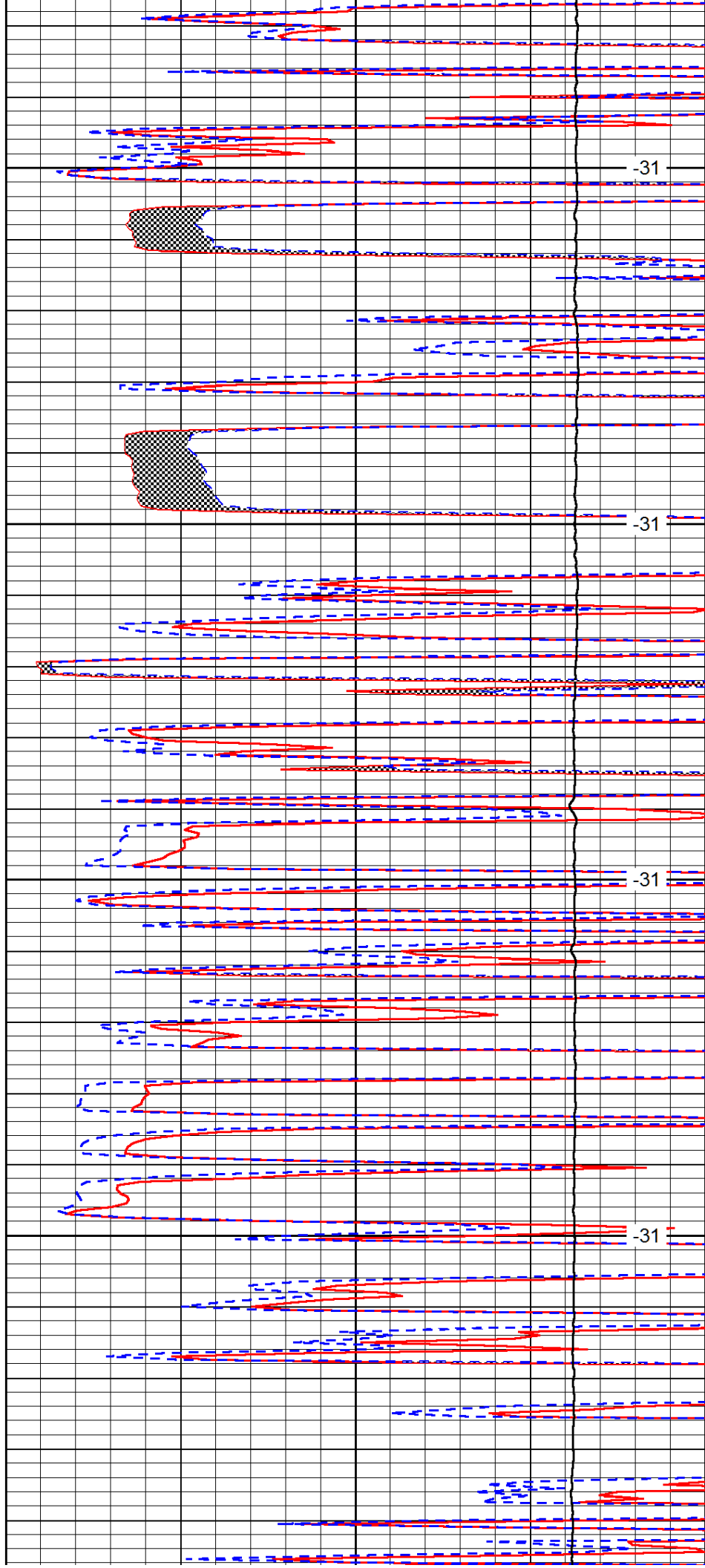


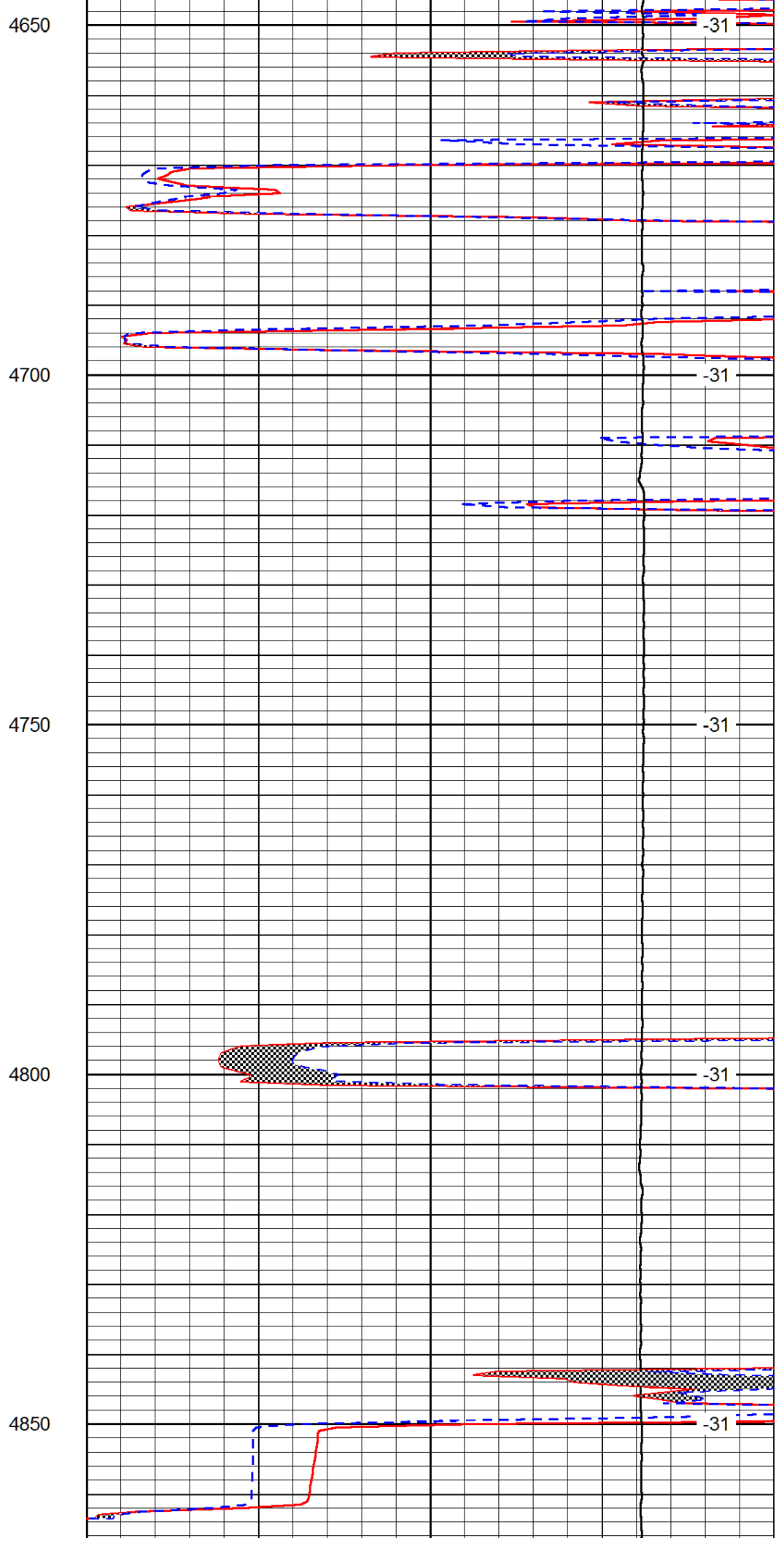
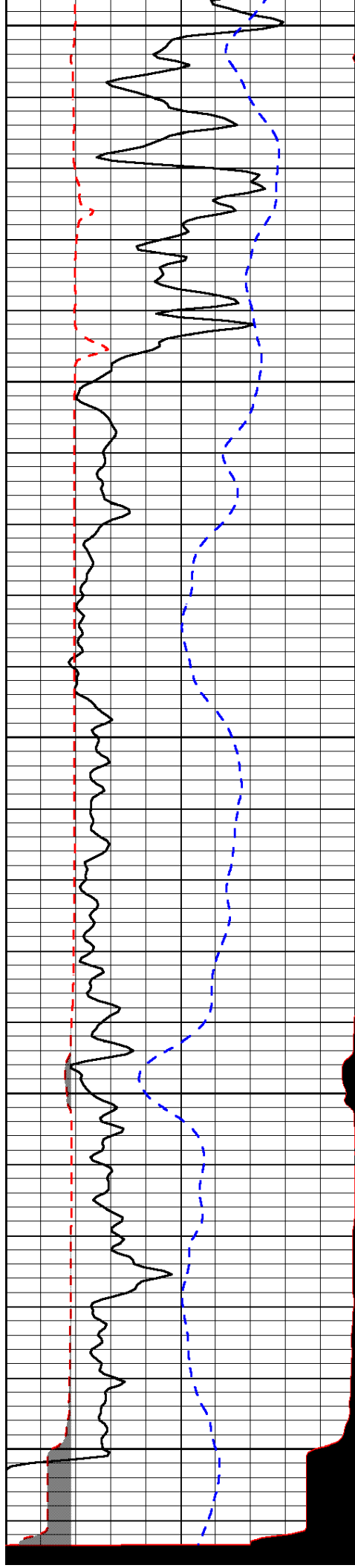
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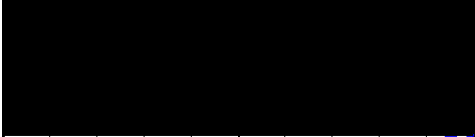
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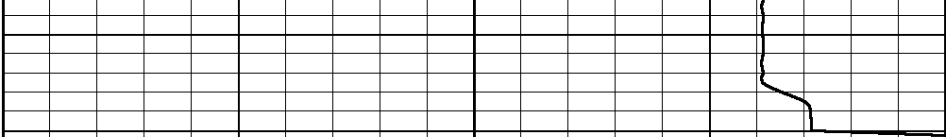
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