



Microresistivity Log

Pioneer Energy Services

API No.

15-185-22075-00-01

Company H&D Exploration LLC

Well Fritzemeier "B" Unit #1 OWWO

Field Unknown

County Stafford State

Kansas

Location 2324' FSL & 2325' FEL

Sec: 3 Twp: 25 S Rge: 12 W

Other Services
CNL/CDL
DIL

Permanent Datum Ground Level Elevation 1868
Log Measured From Kelly Bushing 8 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Date 02-09-2014

Run Number Two

Depth Driller 4168

Depth Logger 4140

Bottom Logged Interval 4139

Top Log Interval 3200

Casing Driller 8.625 @ 338

Casing Logger 340

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity,ppm CL 5400

Density / Viscosity 8.65 54

pH / Fluid Loss 11.0 9.2

Source of Sample Flowline

Rm @ Meas. Temp .45 @ 40

Rmf @ Meas. Temp 0.33 @ 40

Rmc @ Meas. Temp 0.60 @ 40

Source of Rmf / Rmc Charts

Rm @ BHT 0.15 @ 120

Operating Rig Time 4 Hours

Max Rec. Temp. F 120

Equipment Number 91

Location Hays

Recorded By Y. Ruiz

Witnessed By Josh Austin

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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.

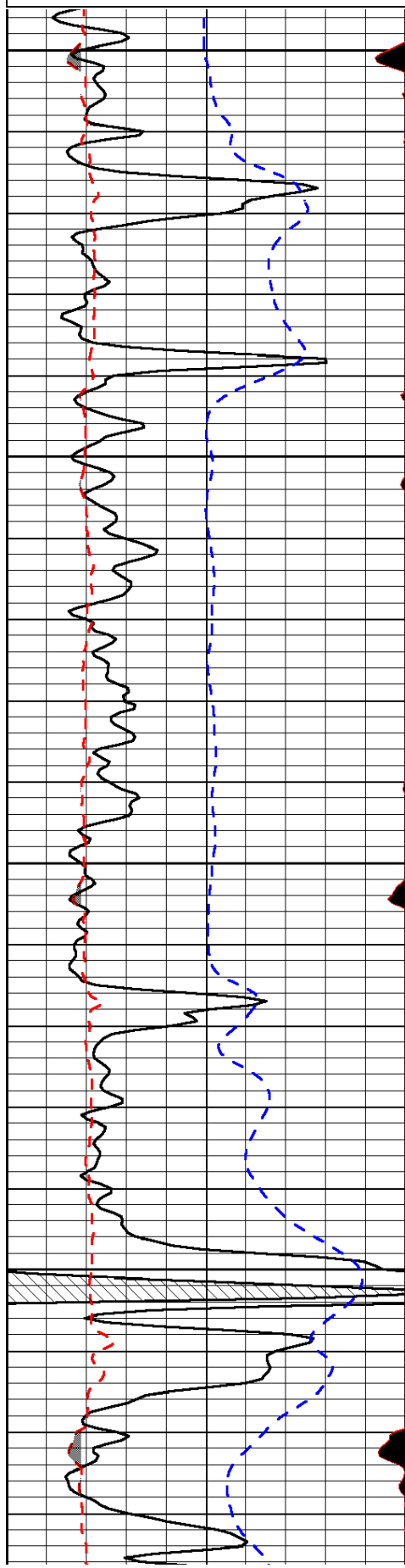
Comments

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

Stafford,
4 South, 1 1/2 West,
North into

Database File: h&d_020914hd.db
Dataset Pathname: DIL/hdstk
Presentation Format: micro
Dataset Creation: Sun Feb 09 23:07:45 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



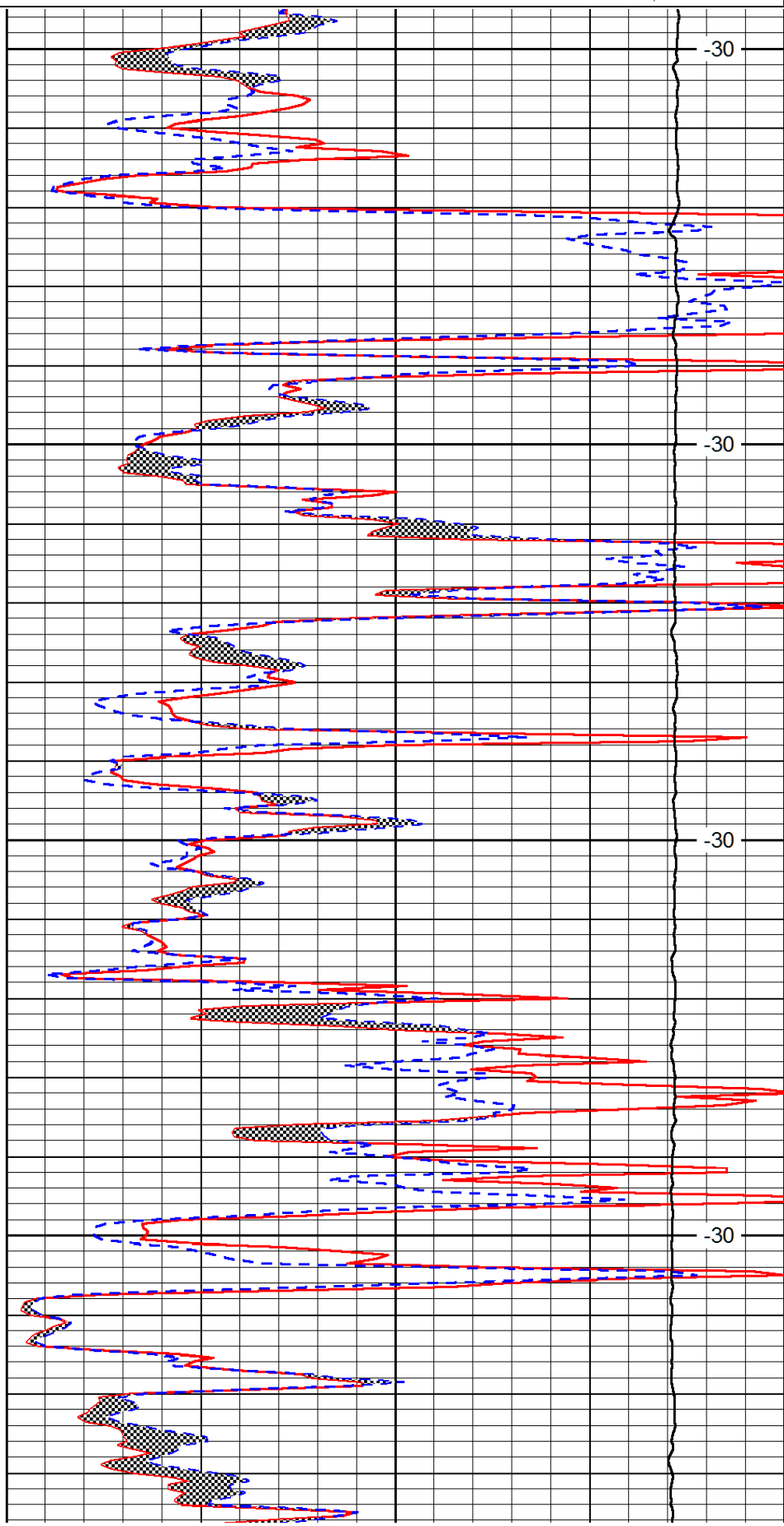
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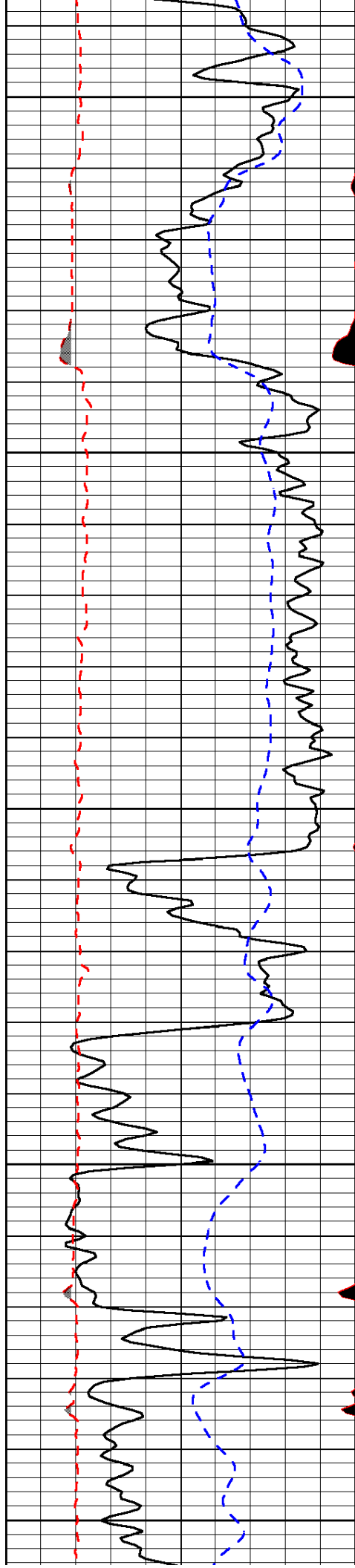
3250

3300

3350

0	Micro Inverse 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0
		LSPD (ft/min)





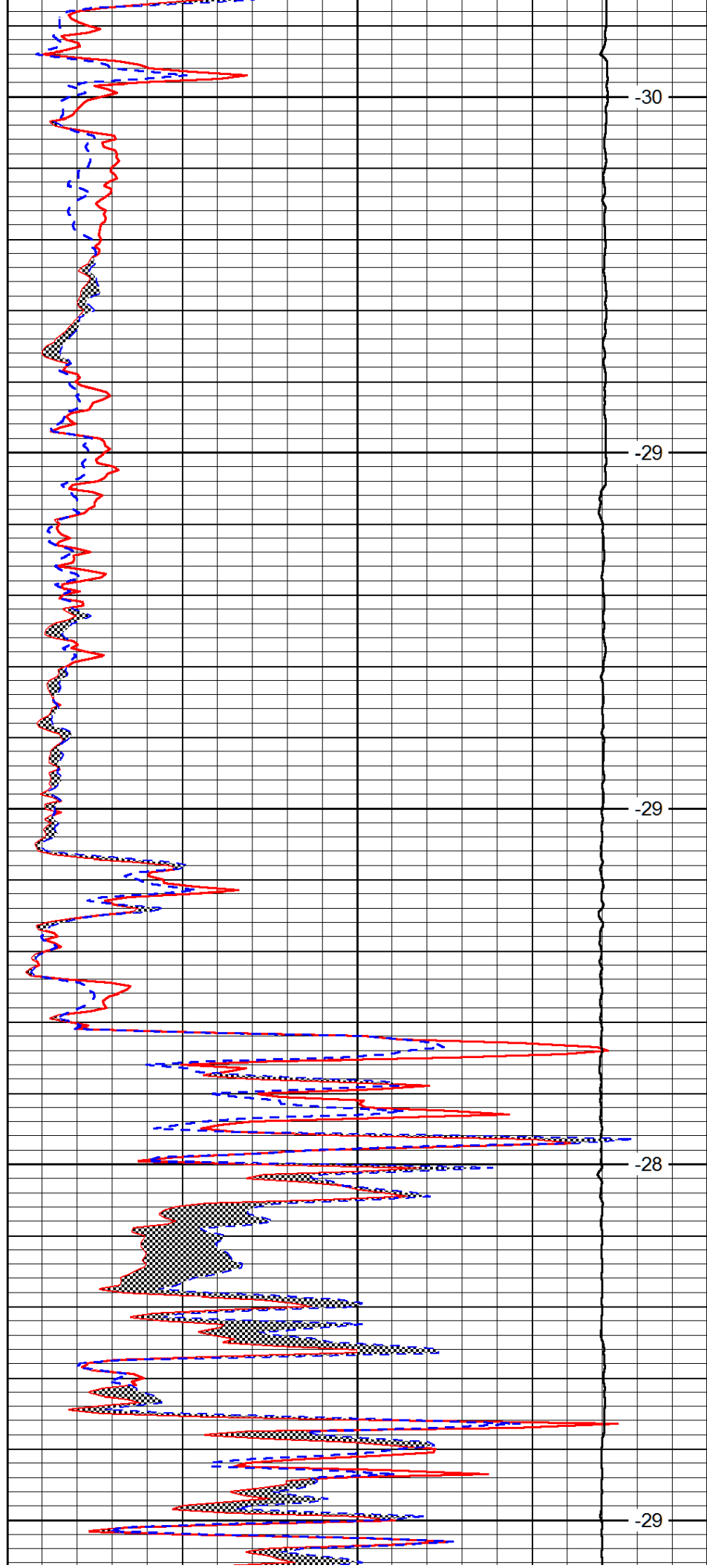
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3600



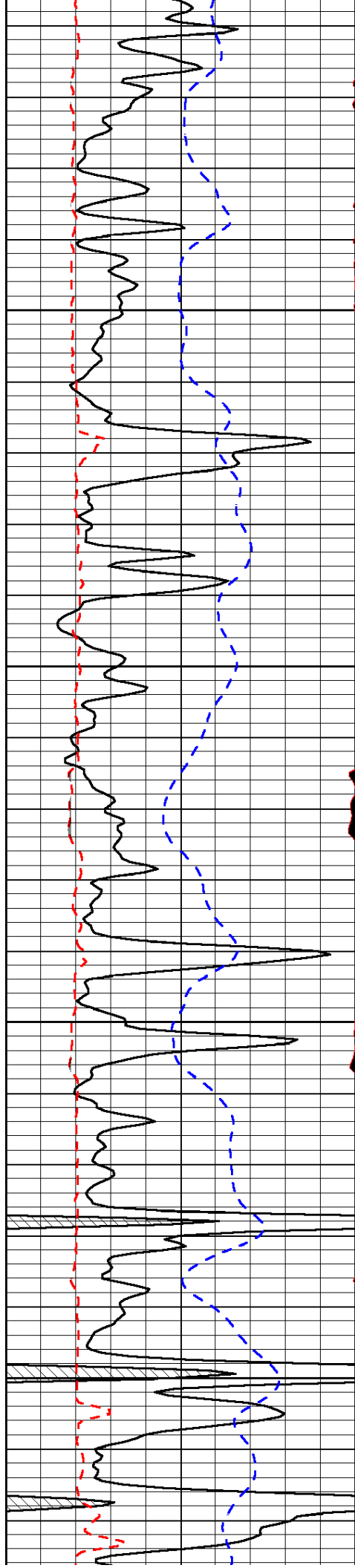
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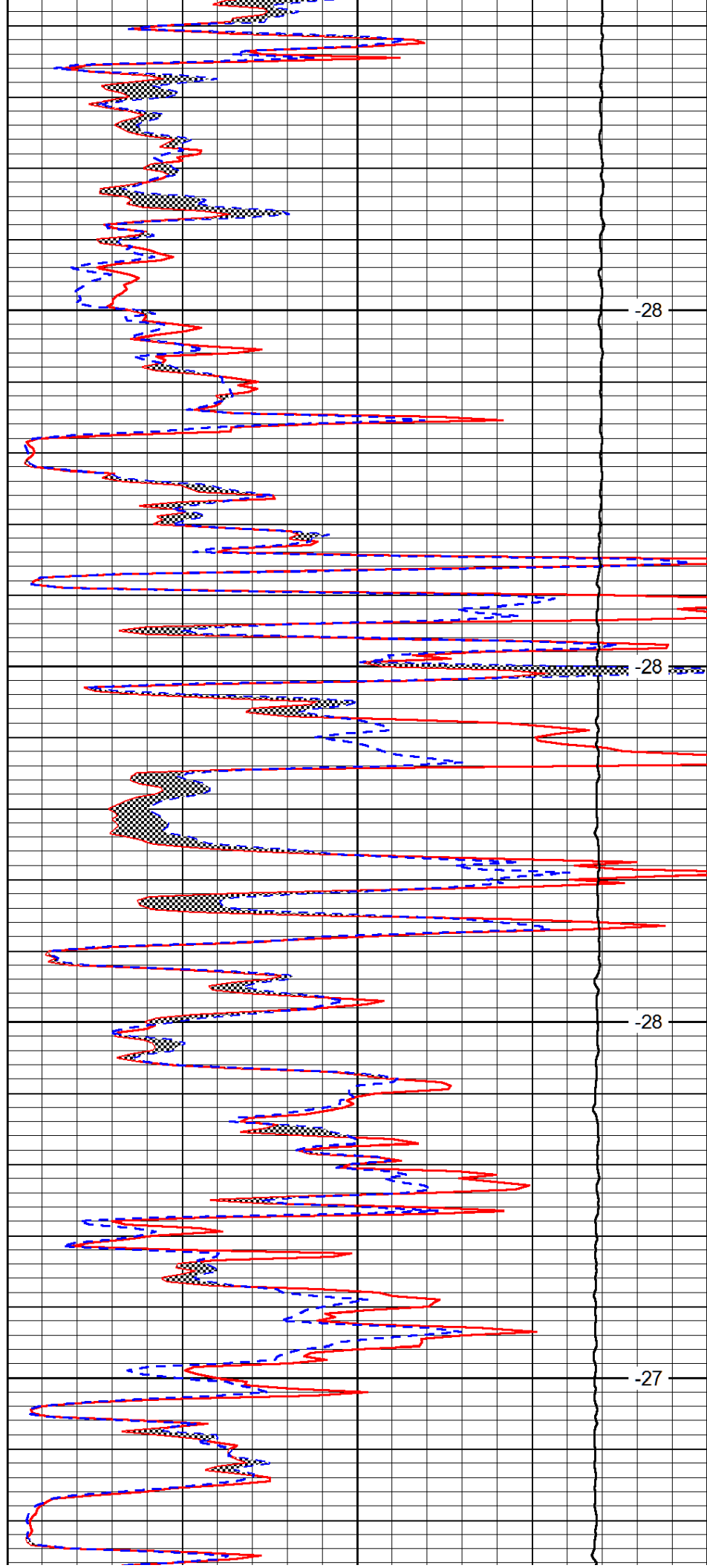


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3700

3750

3800

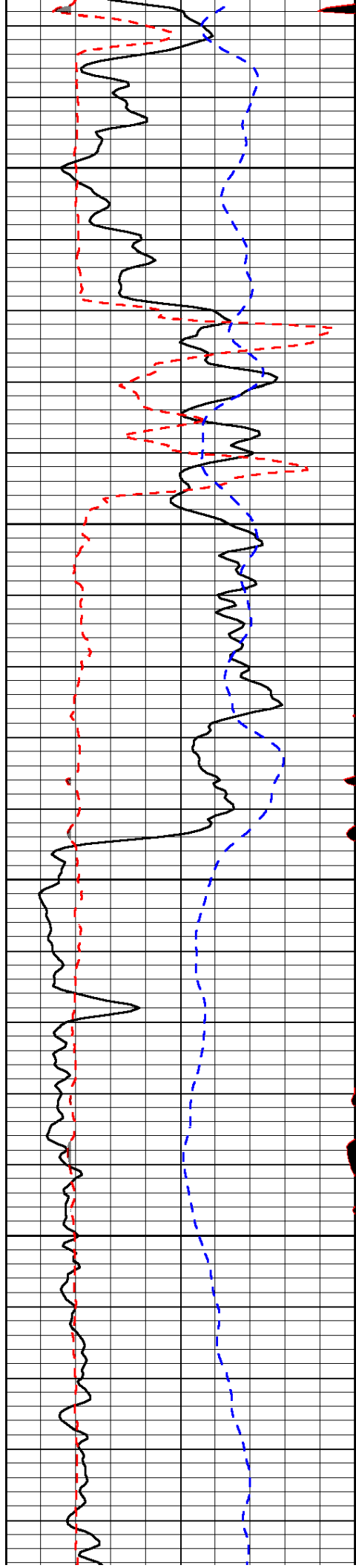


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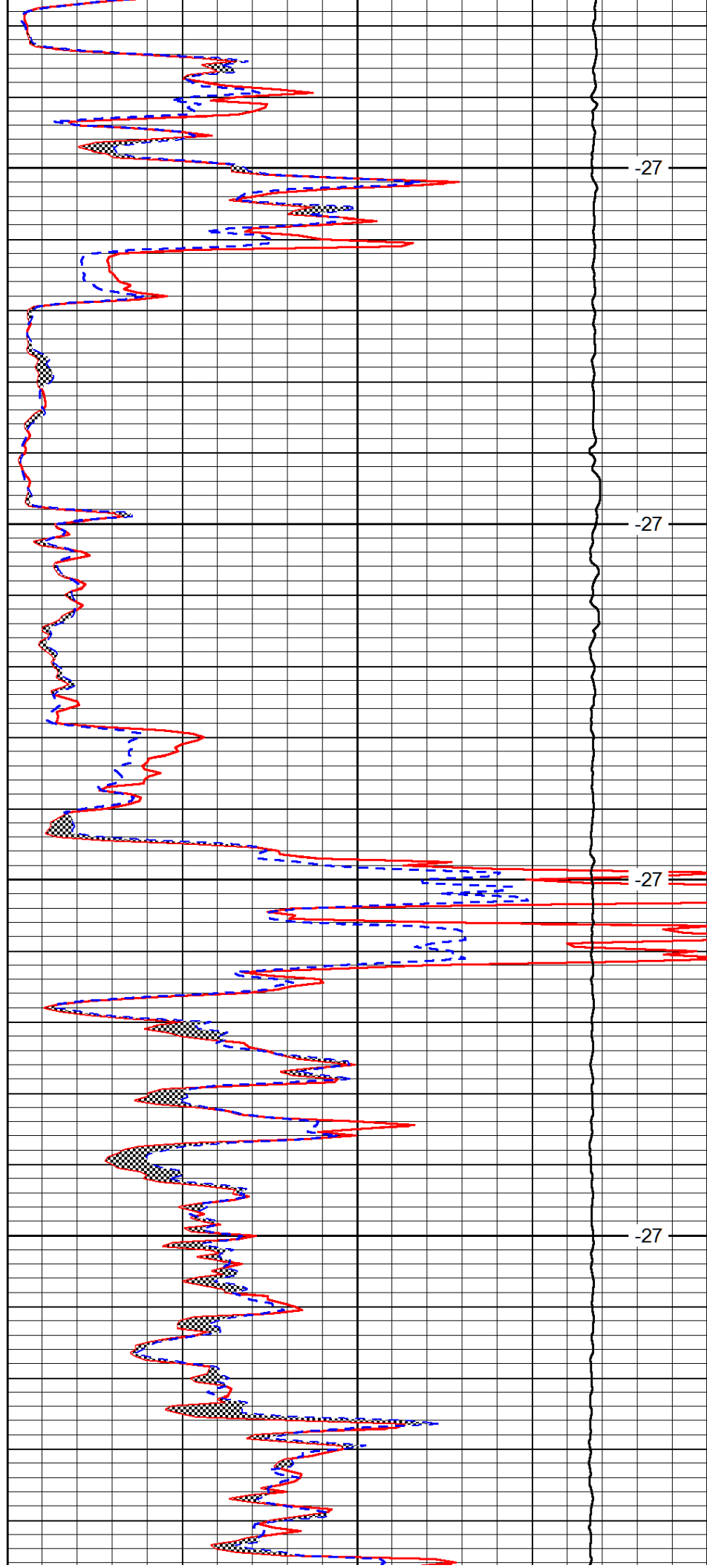


3850

3900

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4000



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