



Pioneer Energy Services

Microresistivity Log

API No.

15-135-25,822-00-00

Company American Warrior, Inc.

Well Whipple C No. 5

Field Delos Southeast

County Ness State Kansas

Location 335' FNL & 1707' FEL

Sec: 8 Twp: 18s Rge: 26w

Other Services
CNL/CDL
DIL

Elevation

K.B. 2511
D.F.
G.L. 2500

Permanent Datum Ground Level Elevation 2500
Log Measured From Kelly Bushing 11 Ft. Above Perm. Datum
Drilling Measured From Kelly bushing

Date 10/22/2014

Run Number Two

Depth Driller 4650

Depth Logger 4652

Bottom Logged Interval 4651

Top Log Interval 3700

Casing Driller 8.625 @ 215

Casing Logger 208

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 4000

Density / Viscosity 9.4 56

pH / Fluid Loss 10.0 8.0

Source of Sample Flowline

Rm @ Meas. Temp .85 @ 78

Rmf @ Meas. Temp .64 @ 78

Rmc @ Meas. Temp 1.15 @ 78

Source of Rmf / Rmc Charts

Rm @ BHT .54 @ 123

Operating Rig Time 4 Hours

Max Rec. Temp. F 123

Equipment Number 108

Location Hays

Recorded By D. Fischer

Witnessed By Luke Thompson

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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

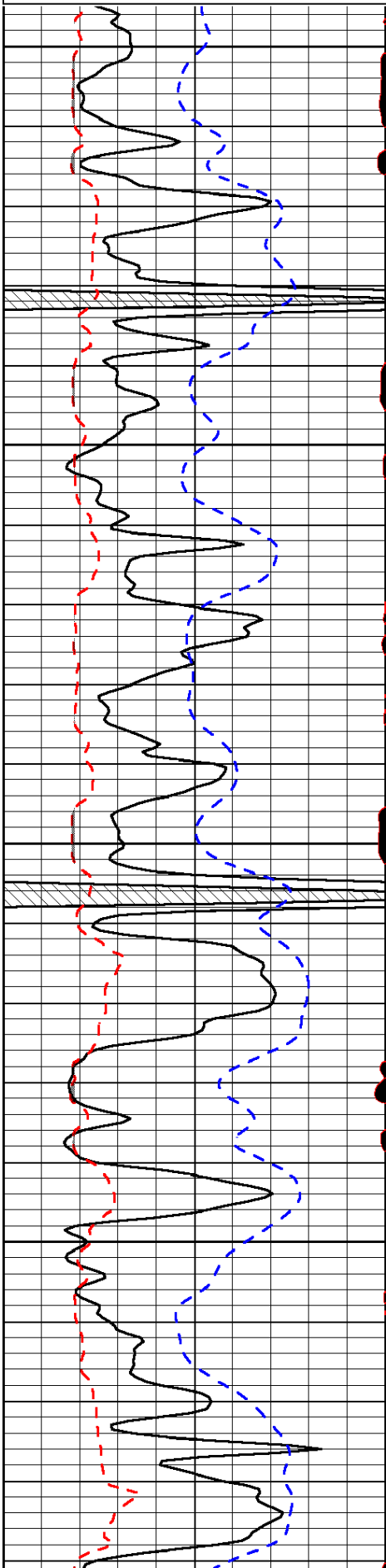
Thank you for using Log-Tech, Inc.
(785) 625-3858

Beeler Ks., 1/4 West to C Rd., 3 1/4 North, West Into.

Database File: american_warrior_whipple_c_5hd.db
Dataset Pathname: DIL/amstck
Presentation Format: micro
Dataset Creation: Thu Oct 23 07:59:36 2014
Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150
6	MCAL (GAPI)	16
2.875	Mud Cake (GAPI)	7.875
-200	SP (mV)	0

0	Micro Inverse 1 X 1	40
0	Micro Normal 2"	40
10000	Line Weight	0
		LSPD

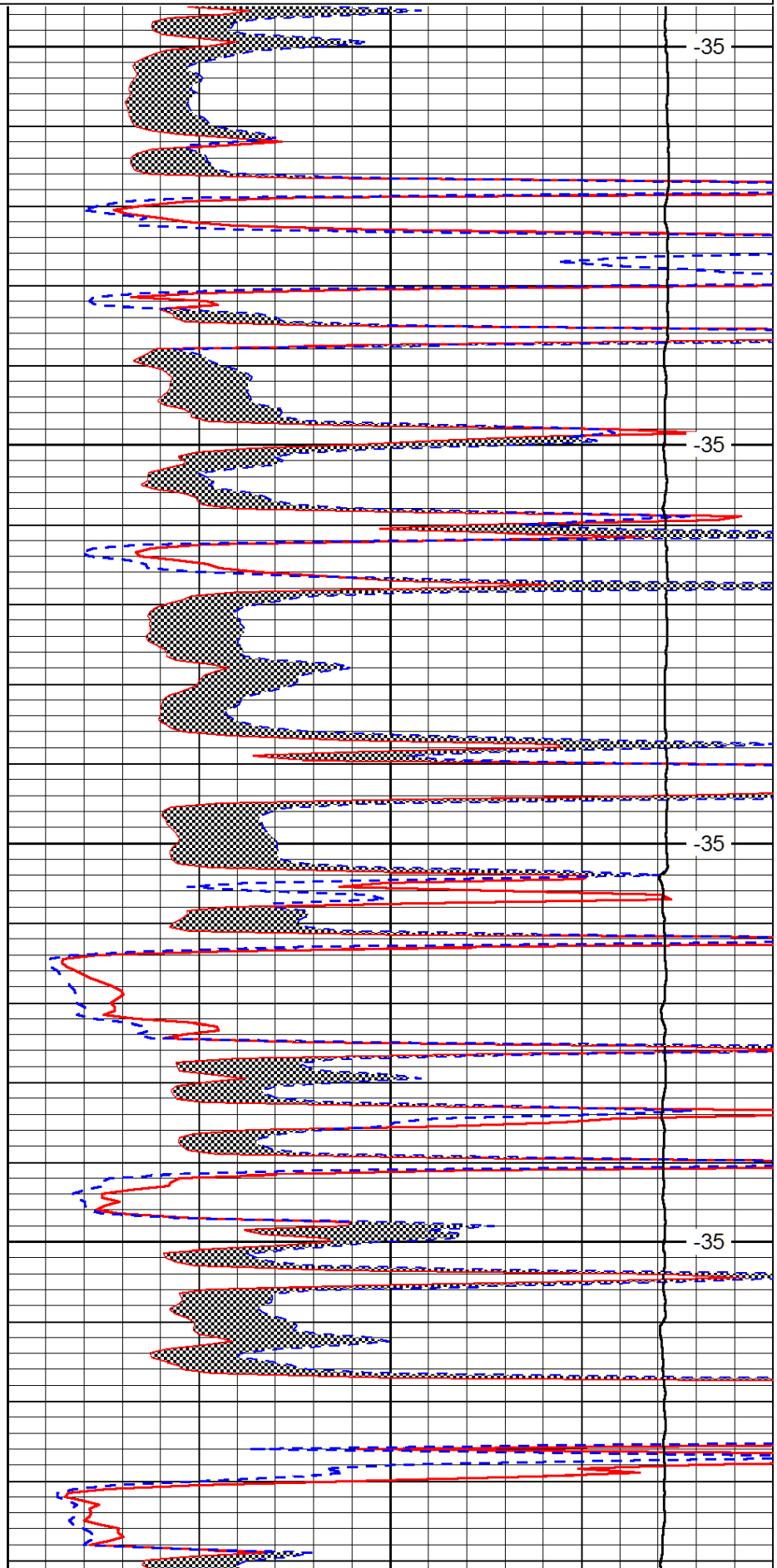


3700

3750

3800

3850

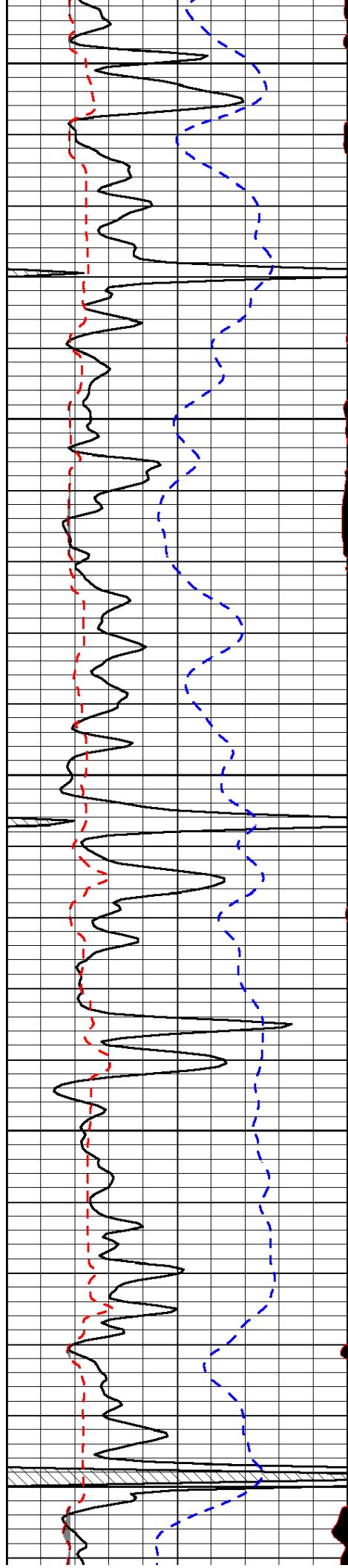


-35

-35

-35

-35



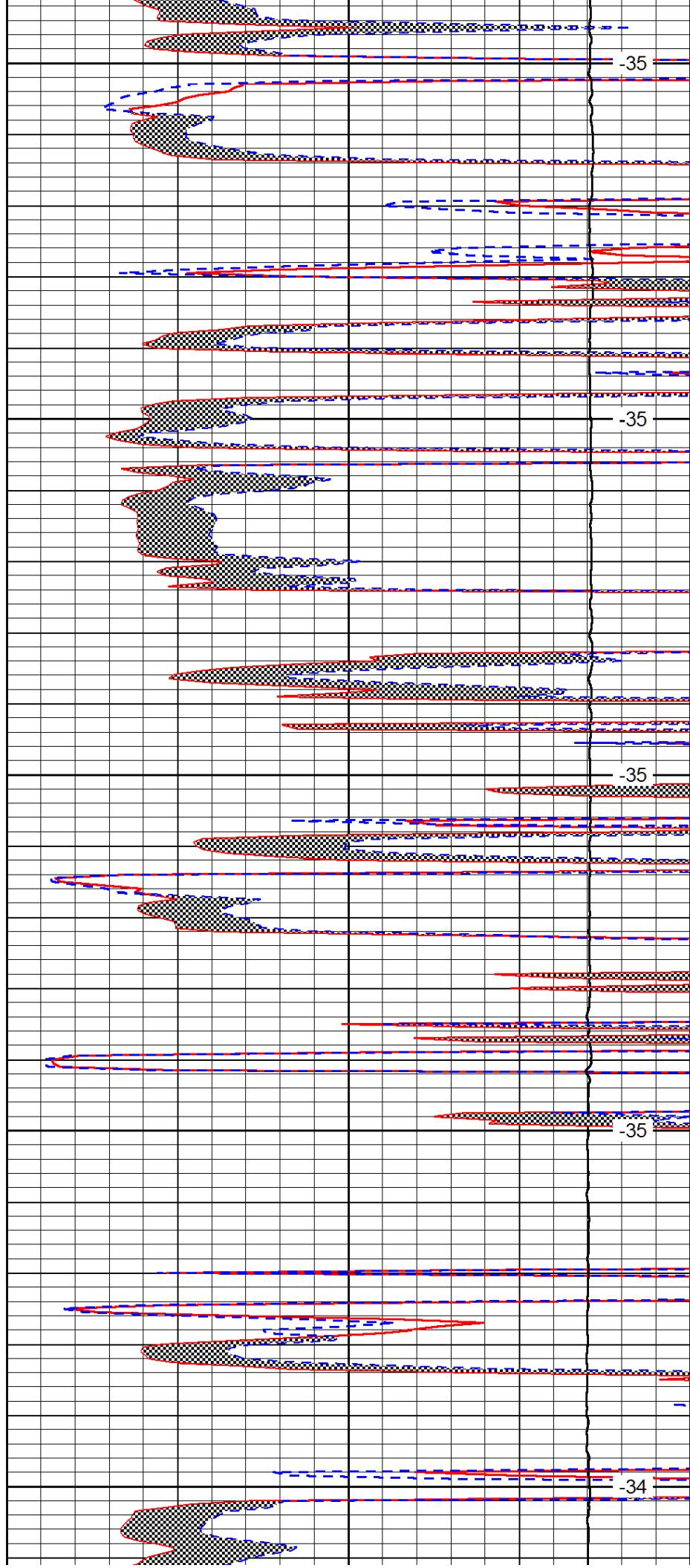
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3950

4000

4050

4100



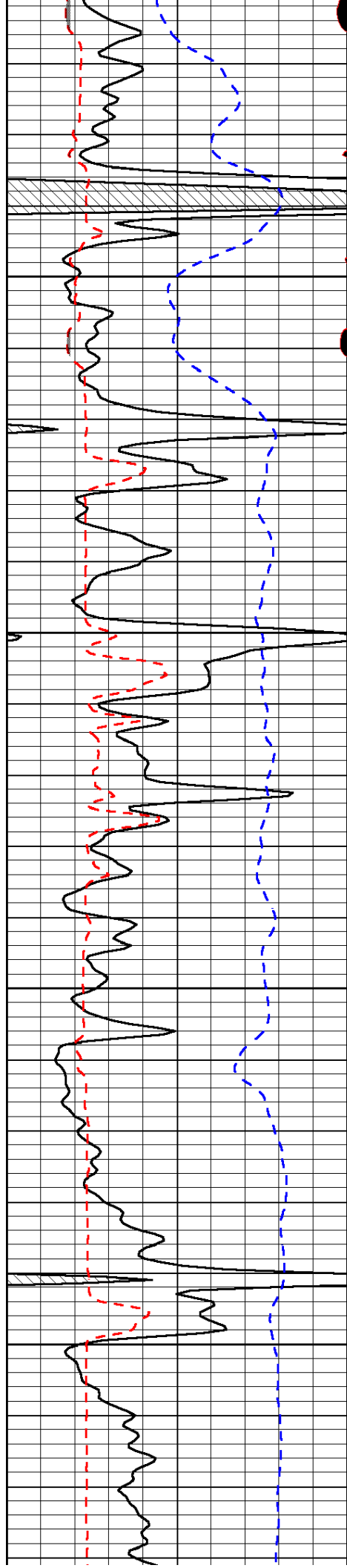
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-35

-35

-35

-34

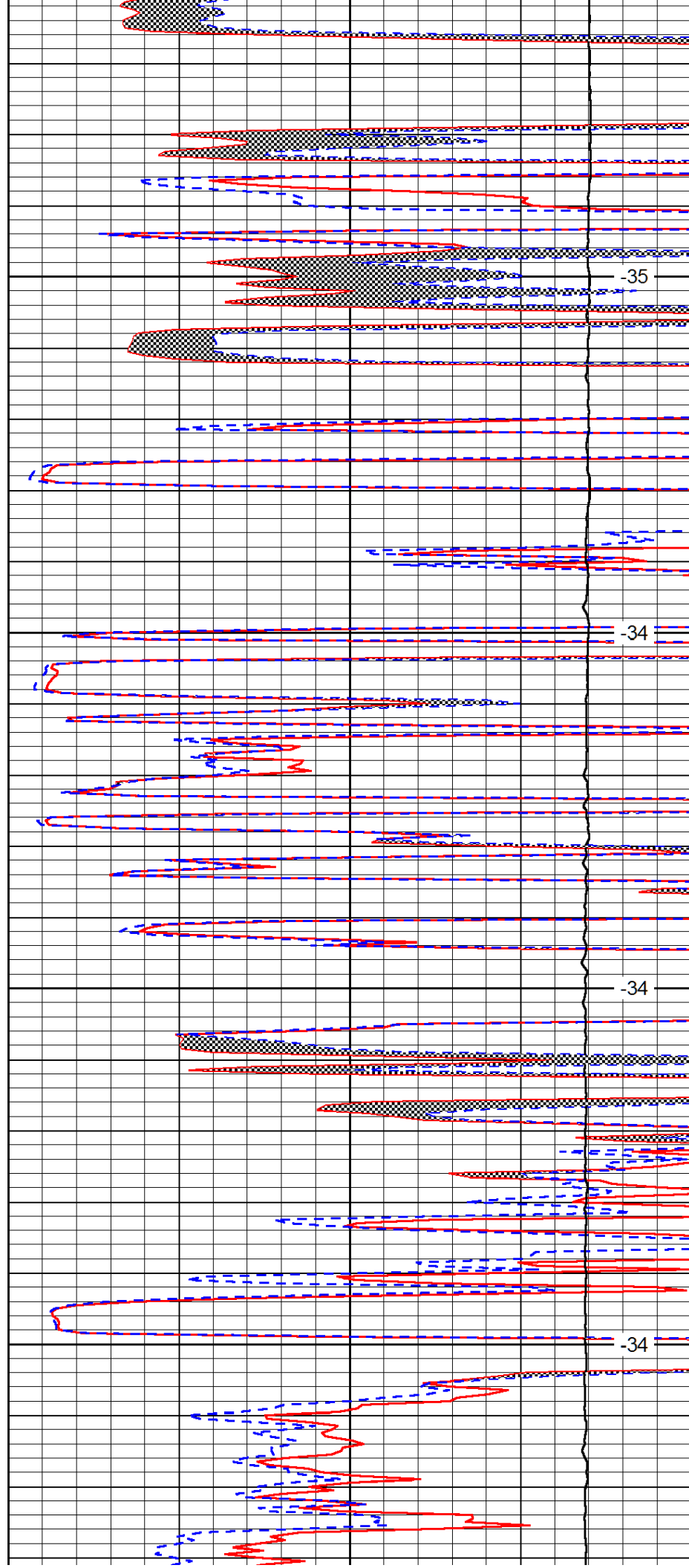


4150

4200

4250

4300

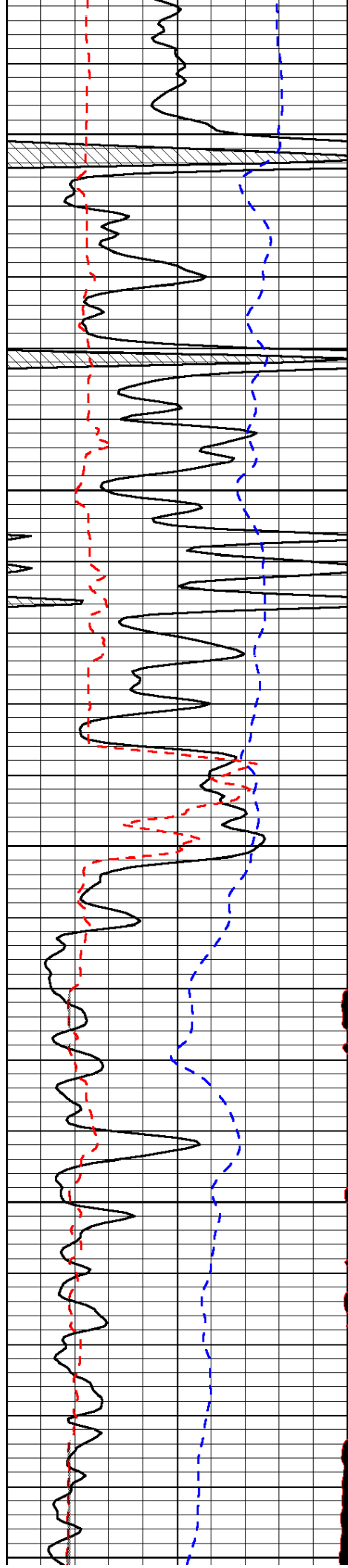


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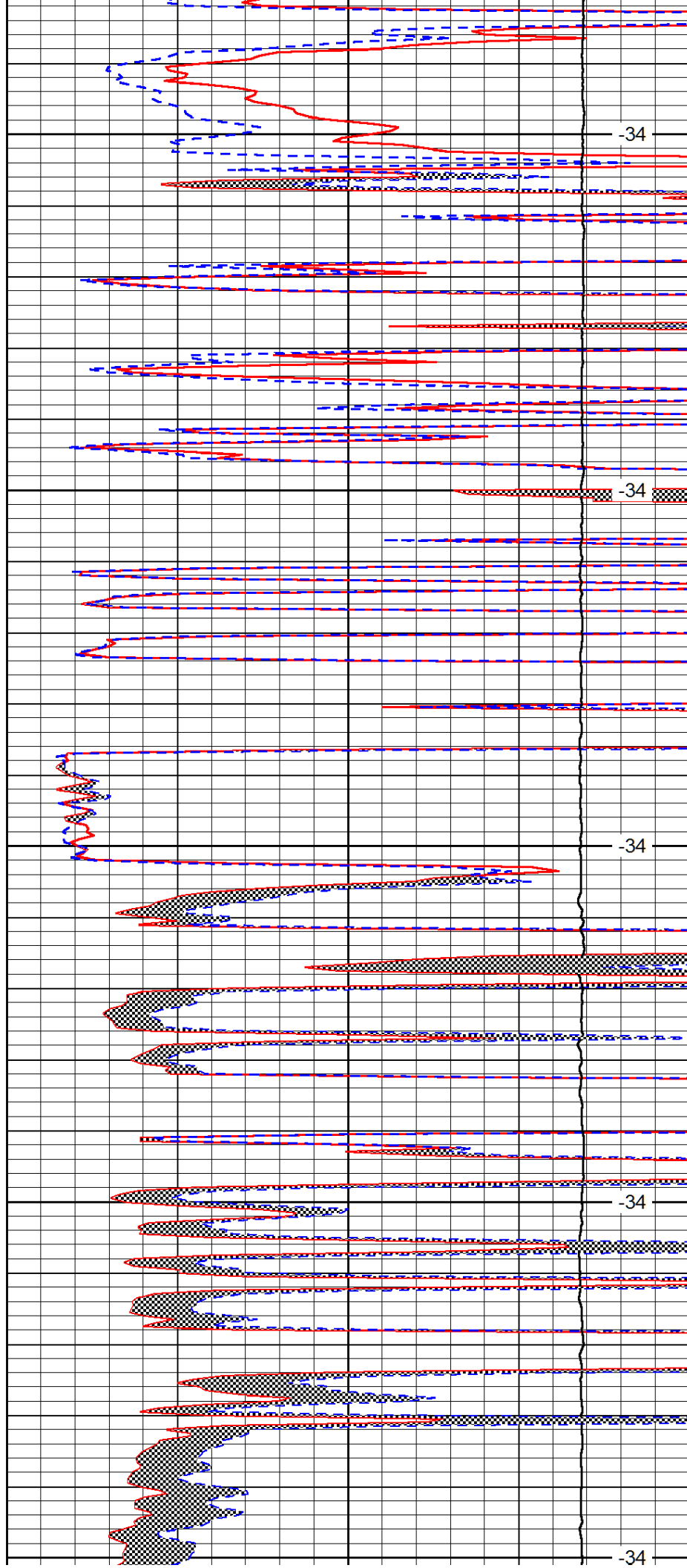
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4500

4550



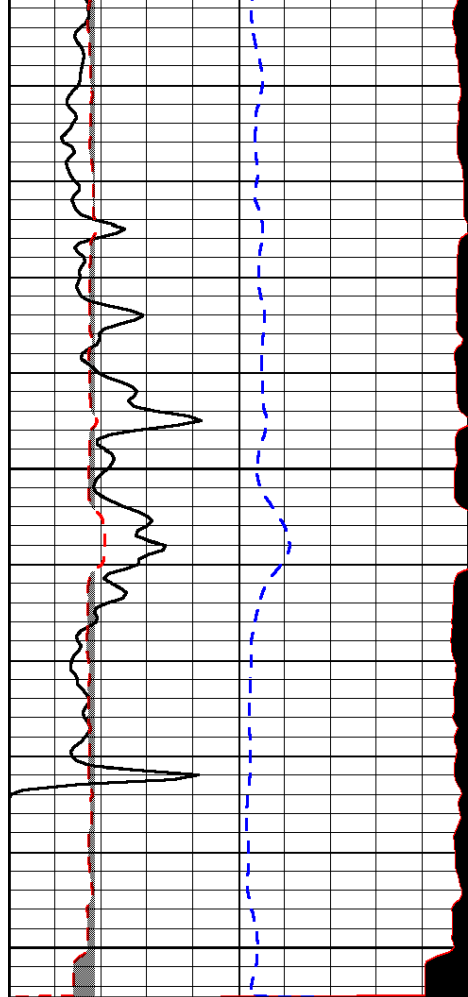
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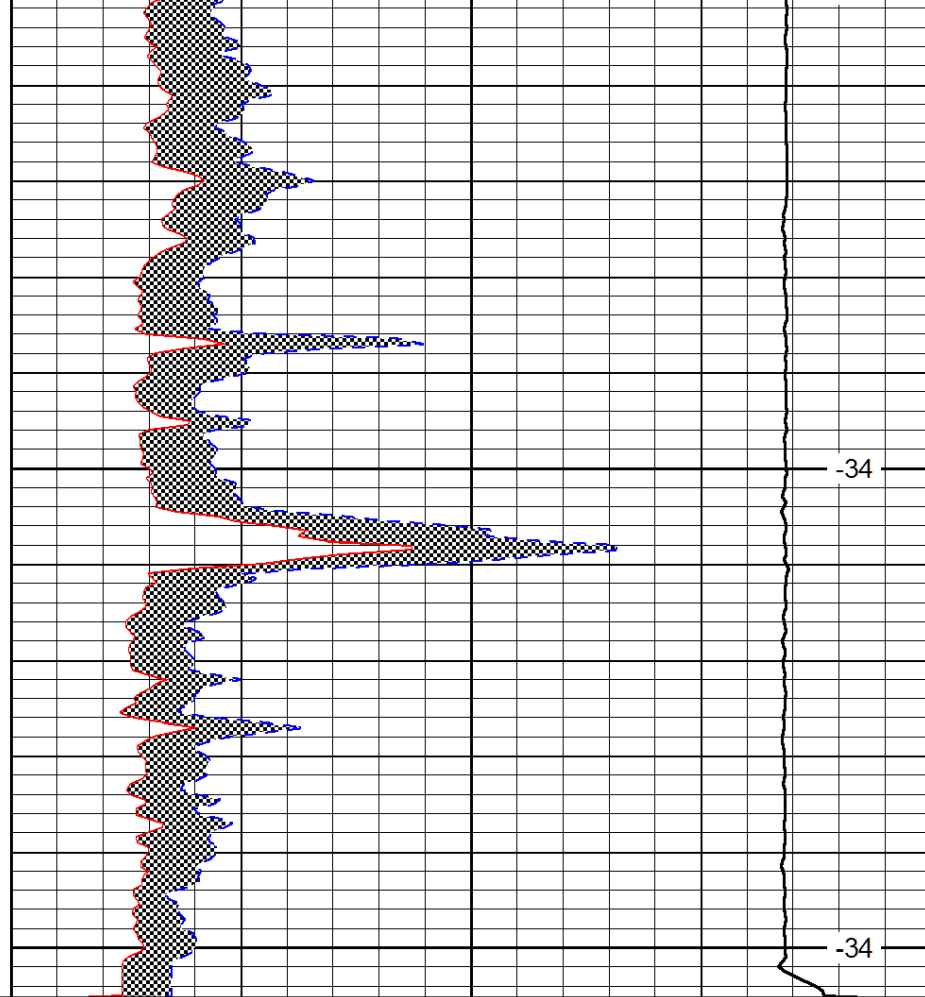
-34



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