



Pioneer Energy Services

Microresistivity Log

API No.

15-055-22,312-00-00

Company American Warrior, Inc.

Well O'Brate-Finney No. 3-15

Field Unknown

County Finney State Kansas

Location

NE-SW-SW-SW
335' FSL & 571' FWL

Sec: 15 Twp: 25S Rge: 31W

Permanent Datum Ground Level Elevation 2790
Log Measured From Kelly Bushing 11 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Other Services
CNL/CDL
DIL
Elevation
K.B. 2801
D.F.
G.L. 2790

Date 6/21/14

Run Number Two

Depth Driller 5000

Depth Logger 4998

Bottom Logged Interval 4997

Top Log Interval 3700

Casing Driller 8.625 @ 1689

Casing Logger 1700

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 2.500

Density / Viscosity 9.45 54

pH / Fluid Loss 10.5 8.58

Source of Sample Flowline

Rm @ Meas. Temp .65 @ 79

Rmf @ Meas. Temp .49 @ 79

Rmc @ Meas. Temp .88 @ 79

Source of Rmf / Rmc Charts

Rm @ BHT .41 @ 79

Operating Rig Time 4 Hours

Max Rec. Temp. F 126

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

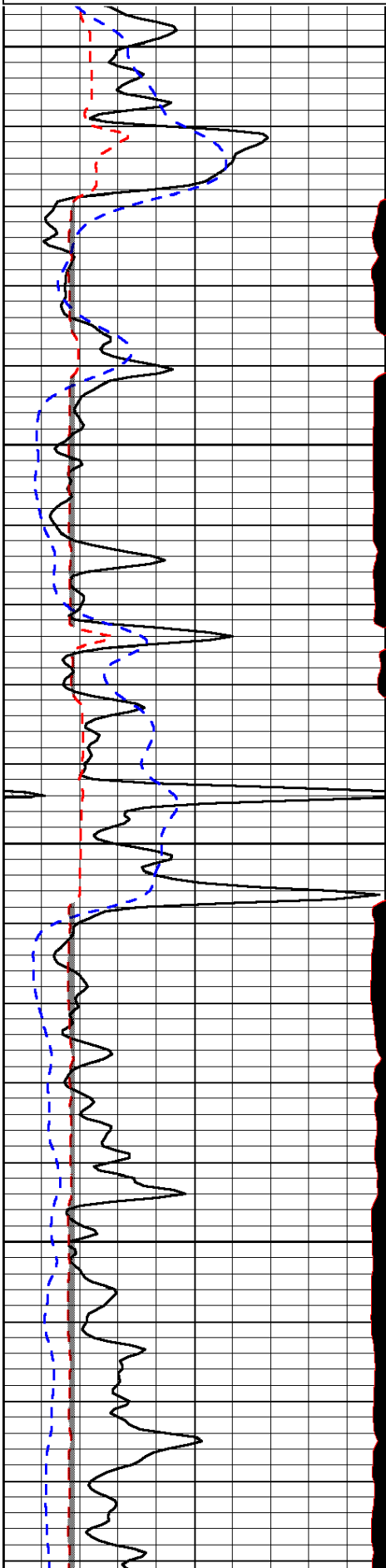
Thank you for using Log-Tech, Inc.
(785) 625-3858

Pierceville Kansas
1 South to Beach Rd, 2 West, North/East Into

Database File: americanwarrior_obrate_finney_3_15hd.db
Dataset Pathname: DIL/awstk
Presentation Format: micro
Dataset Creation: Sat Jun 21 05:23:53 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		

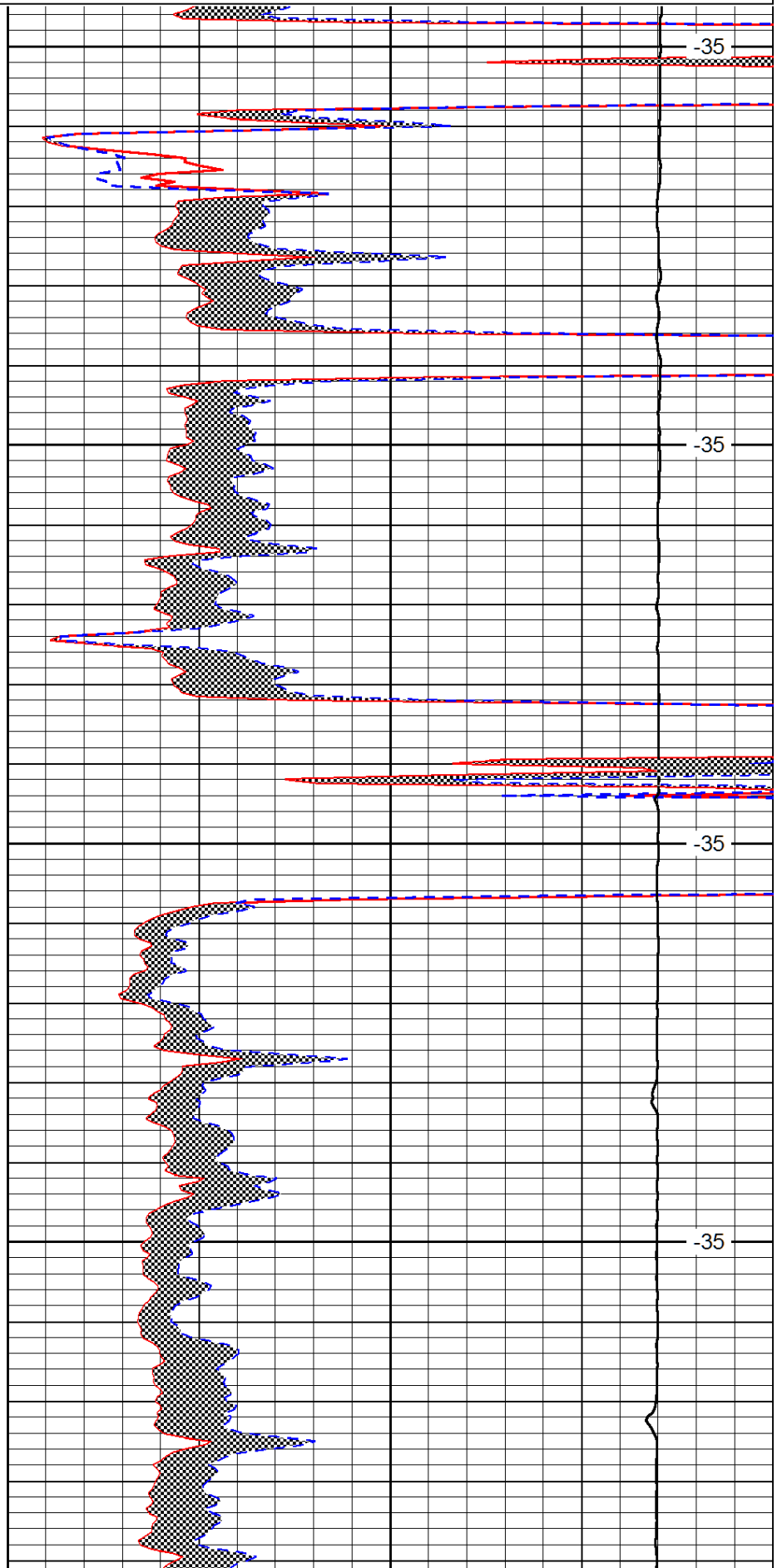


3700

3750

3800

3850

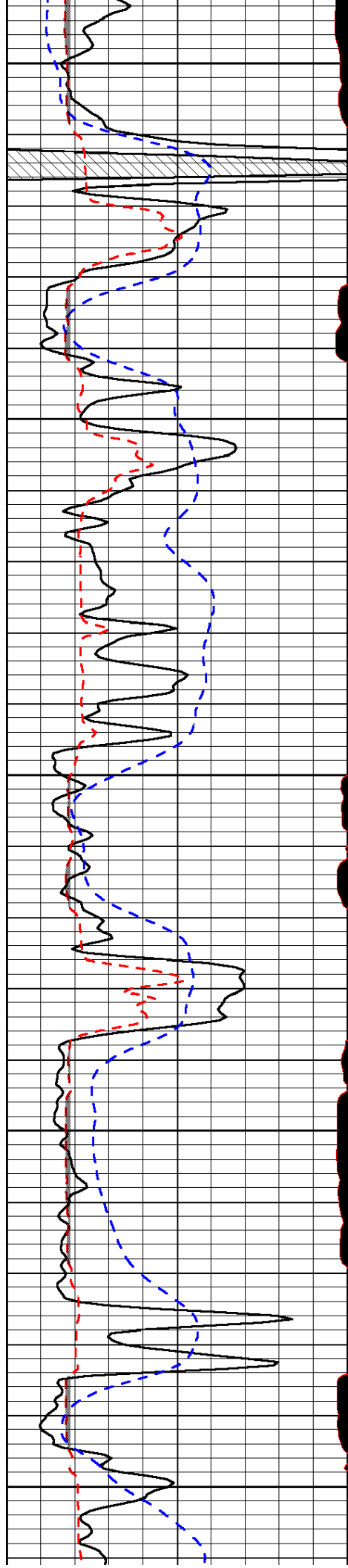


-35

-35

-35

-35



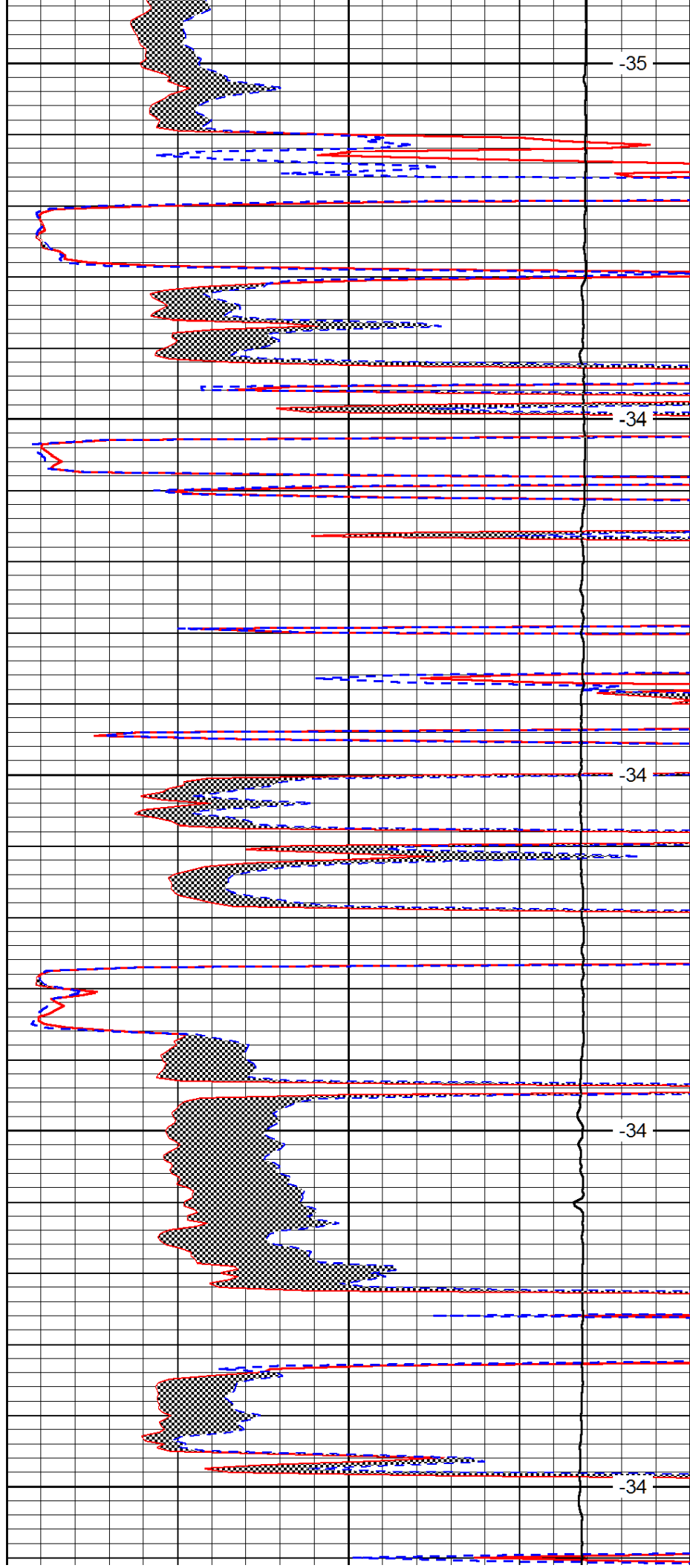
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3950

4000

4050

4100



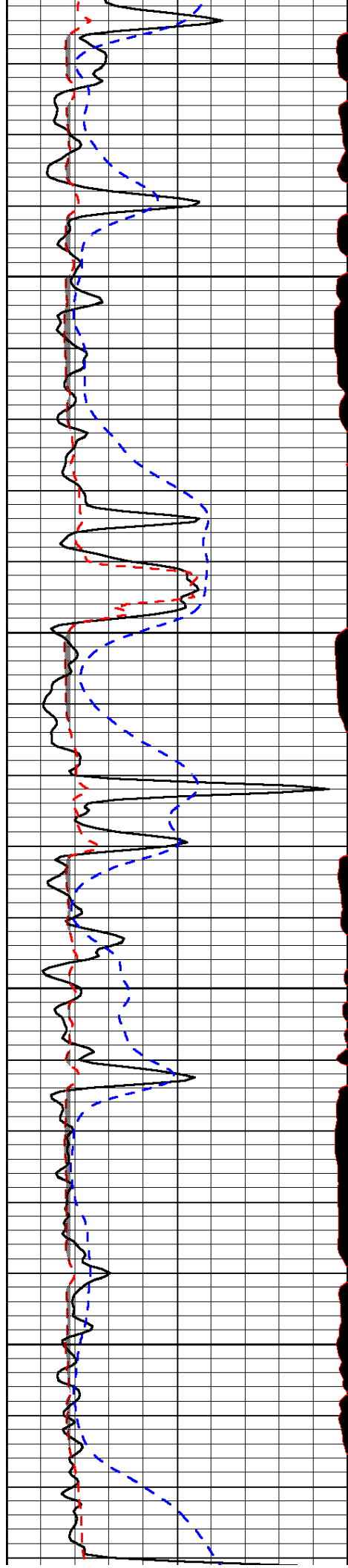
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-34

-34

-34

-34

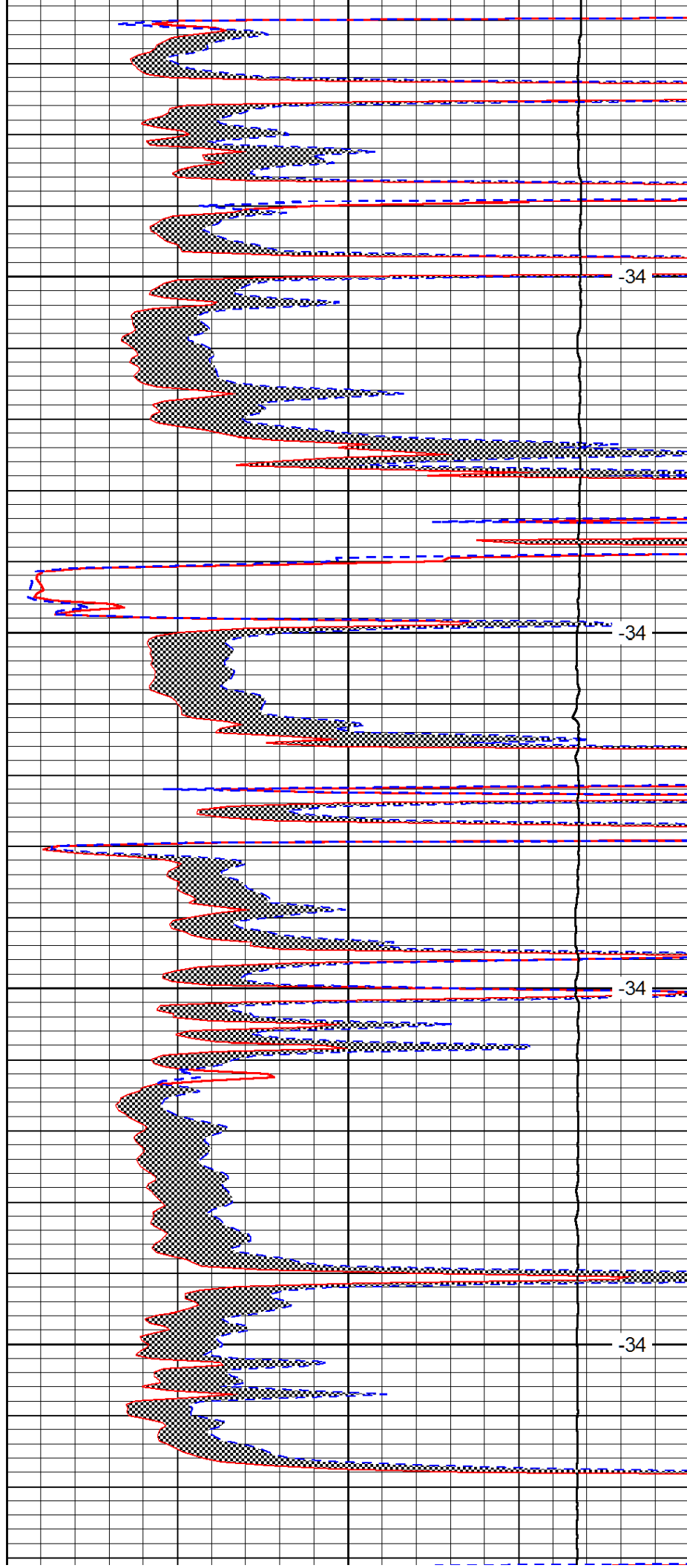


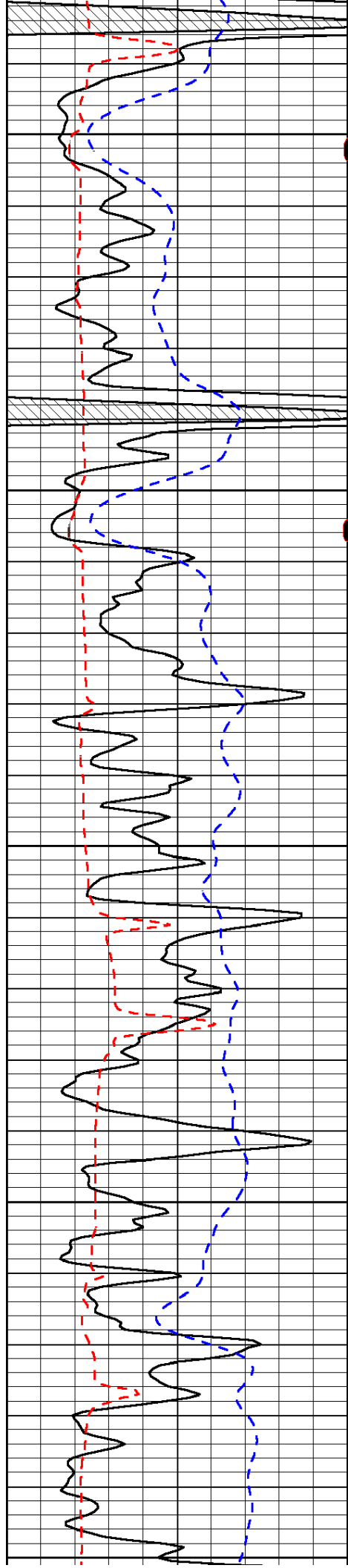
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4200

4250

4300





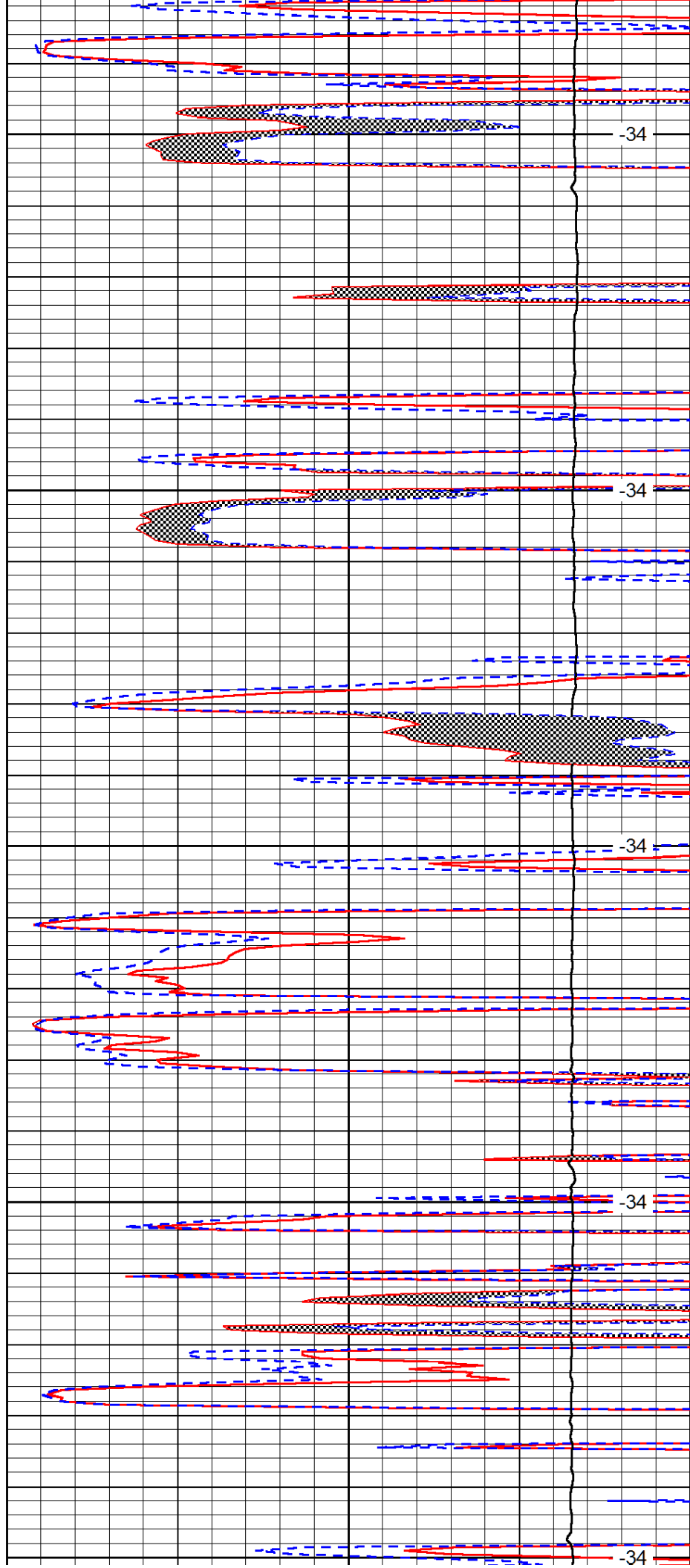
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4400

4450

4500

4550



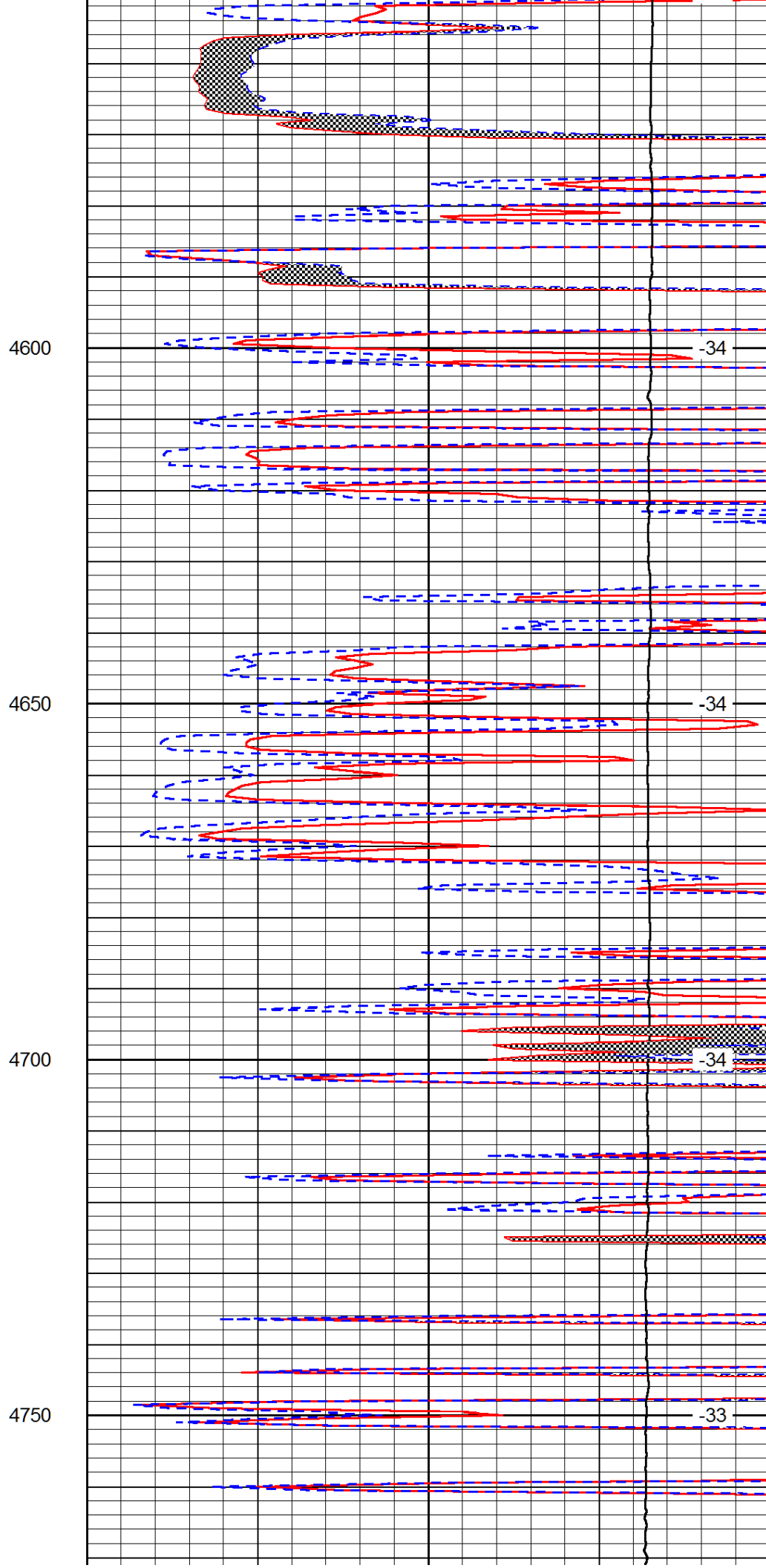
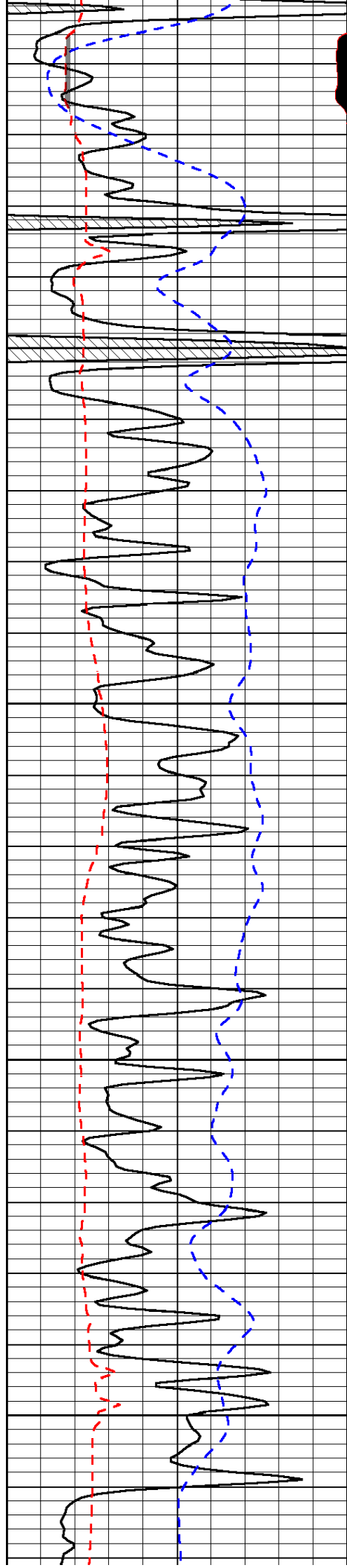
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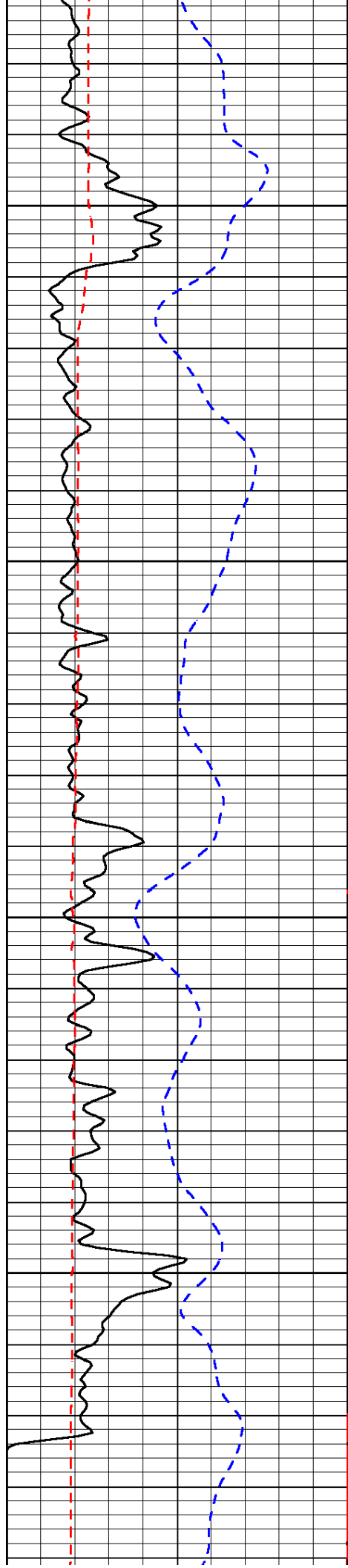
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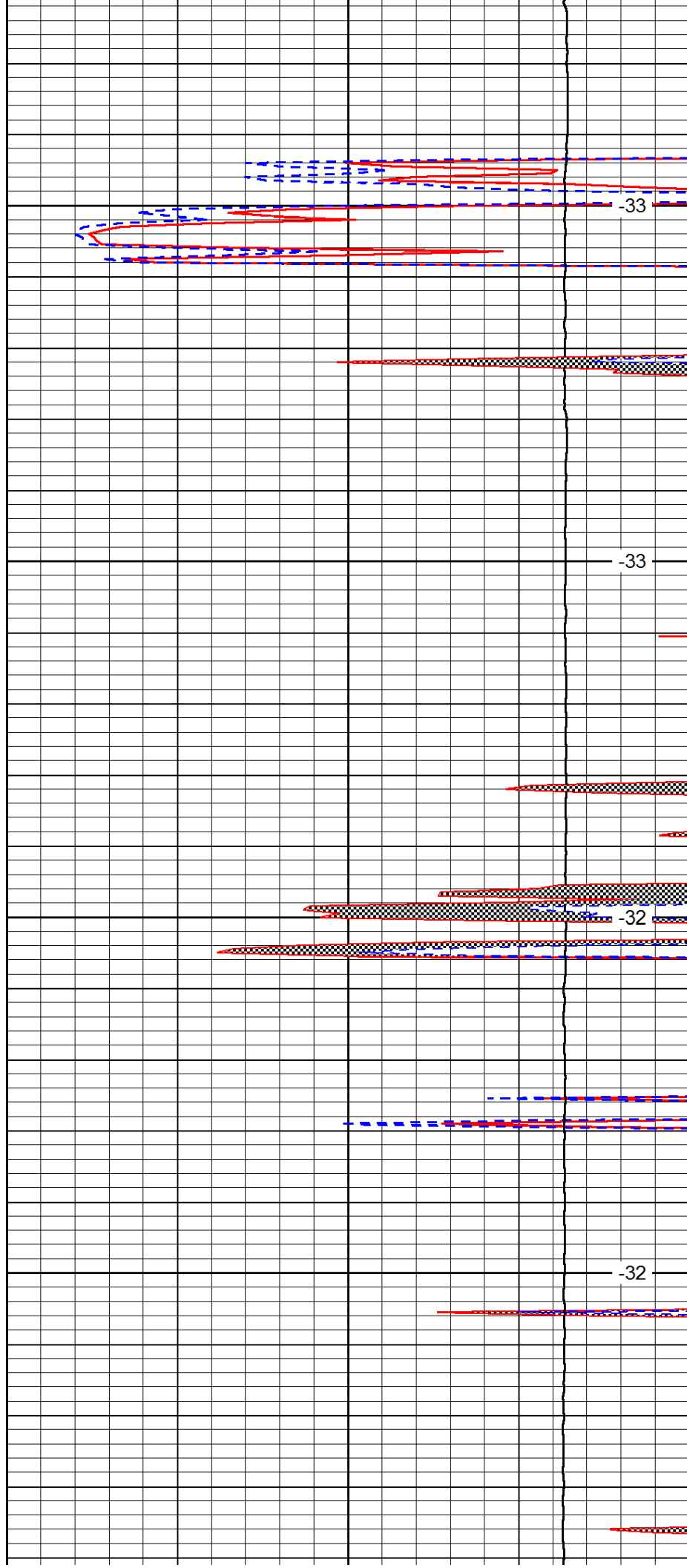


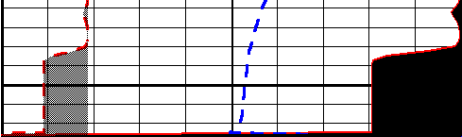
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4850

4900

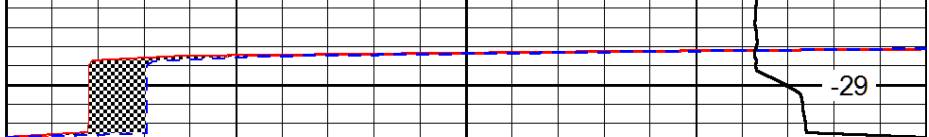
4950





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

5000



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

LSPD

-29