



Microresistivity Log

Pioneer Energy Services

API No.

15-055-22,316-00-00

Company American Warrior, Inc.

Well Tancayo No. 2-3

Field

County Finney State Kansas

Location 2,274' FSL & 2,258' FWL

Sec: 3 Twp: 25s Rge: 31w

Other Services
CNL/CDL
DIL

Elevation

Permanent Datum Ground Level Elevation 2862
Log Measured From Kelly Bushing 11 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

K.B. 2873
D.F.
G.L. 2862

Date 7/16/2014

Run Number Two

Depth Driller 5100

Depth Logger 5100

Bottom Logged Interval 5099

Top Log Interval 3950

Casing Driller 8.625 @ 1710

Casing Logger 1702

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 2900

Density / Viscosity 9.45 50

pH / Fluid Loss 9.5 10.0

Source of Sample Flowline

Rm @ Meas. Temp .80 @ 74

Rmf @ Meas. Temp .60 @ 74

Rmc @ Meas. Temp 1.08 @ 74

Source of Rmf / Rmc Charts

Rm @ BHT .47 @ 127

Operating Rig Time 4 Hours

Max Rec. Temp. F 127

Equipment Number 108

Location Hays

Recorded By J Long

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.

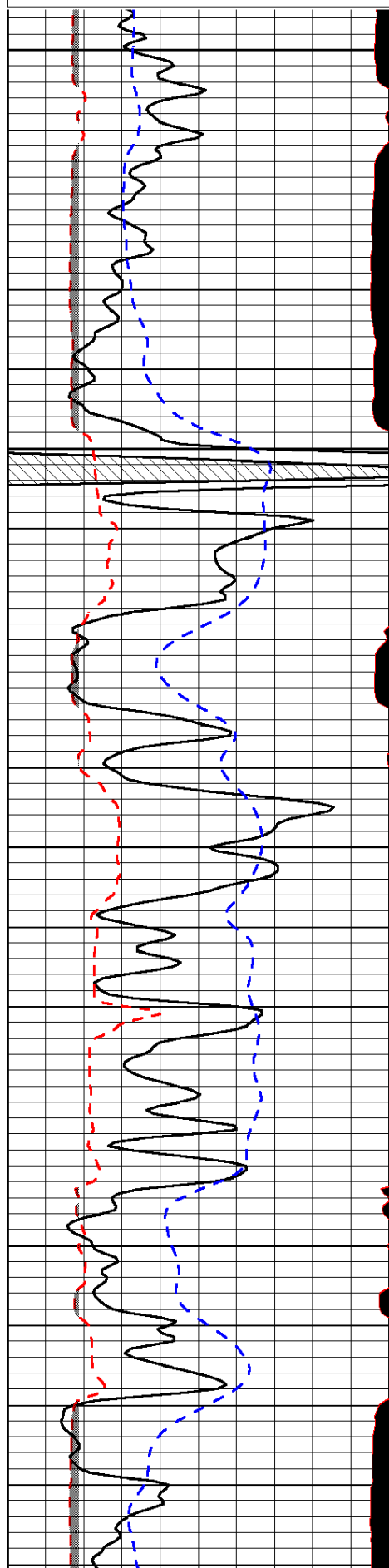
Comments

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

Garden City Airport, 1 Southeast on Hwy 50, Southwest Into.

Database File: american_warrior_tancayo_2-3hd.db
Dataset Pathname: DIL/awstck
Presentation Format: micro
Dataset Creation: Wed Jul 16 14:57:11 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



3950

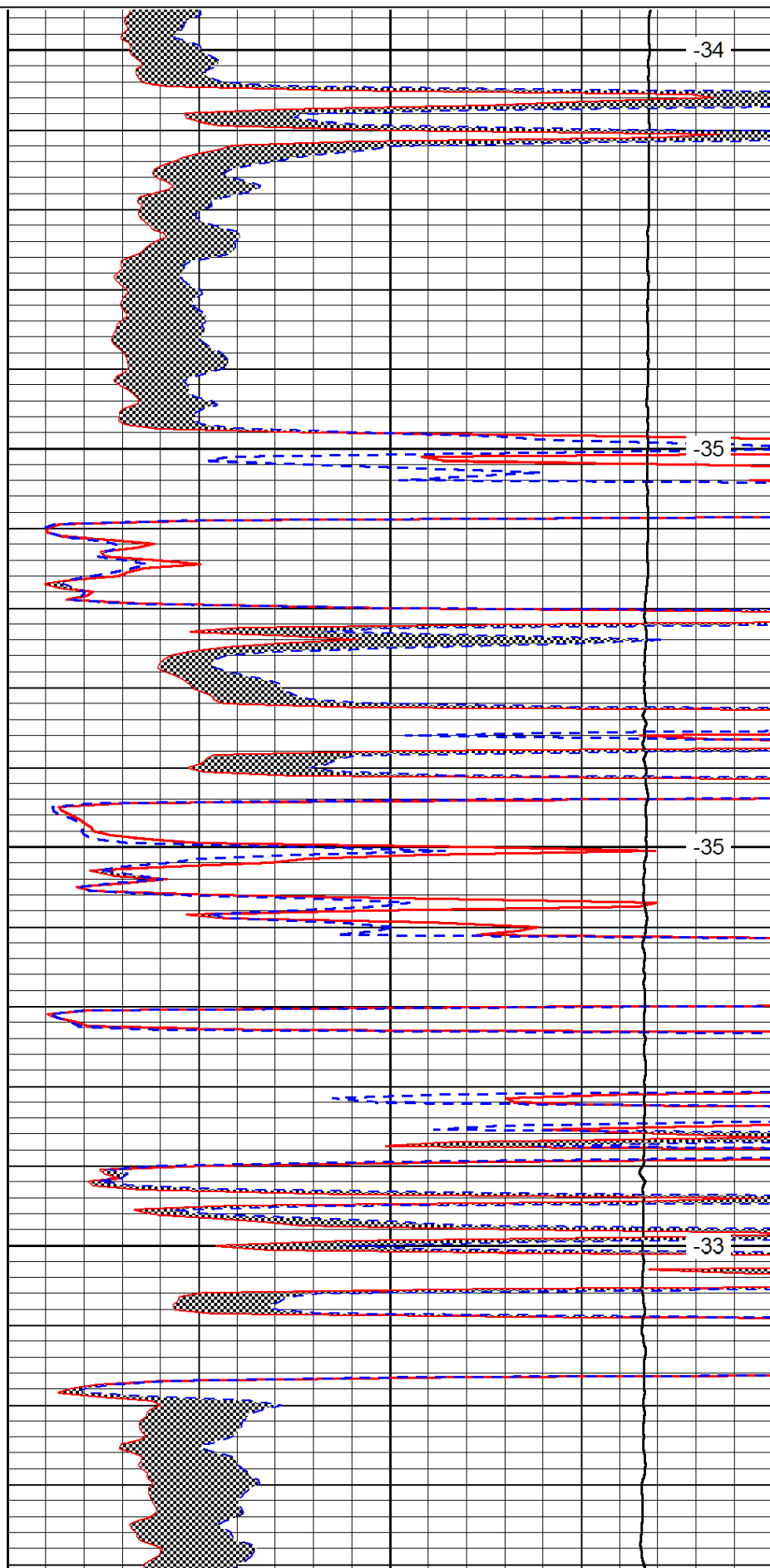
4000

4050

4100

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

LSPD

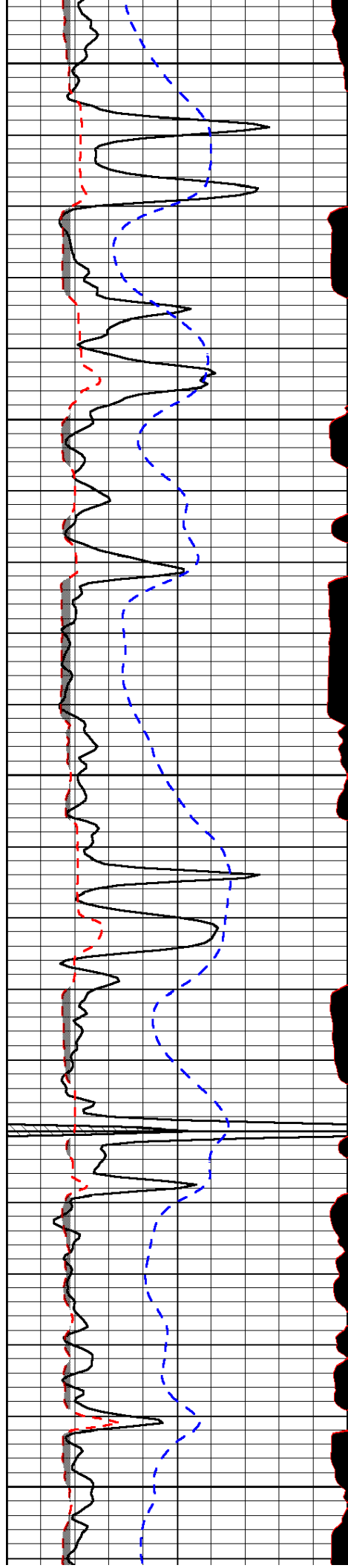


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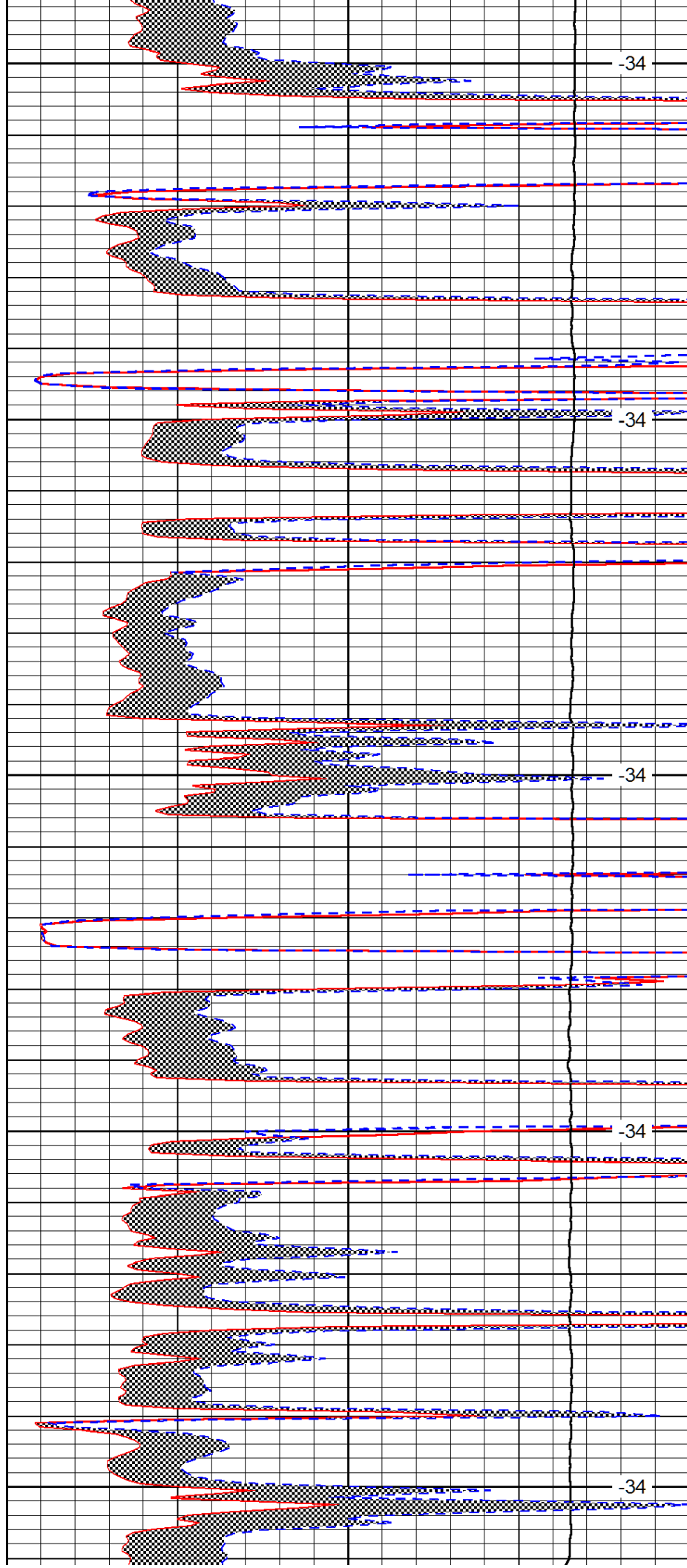
4150

4200

4250

4300

4350



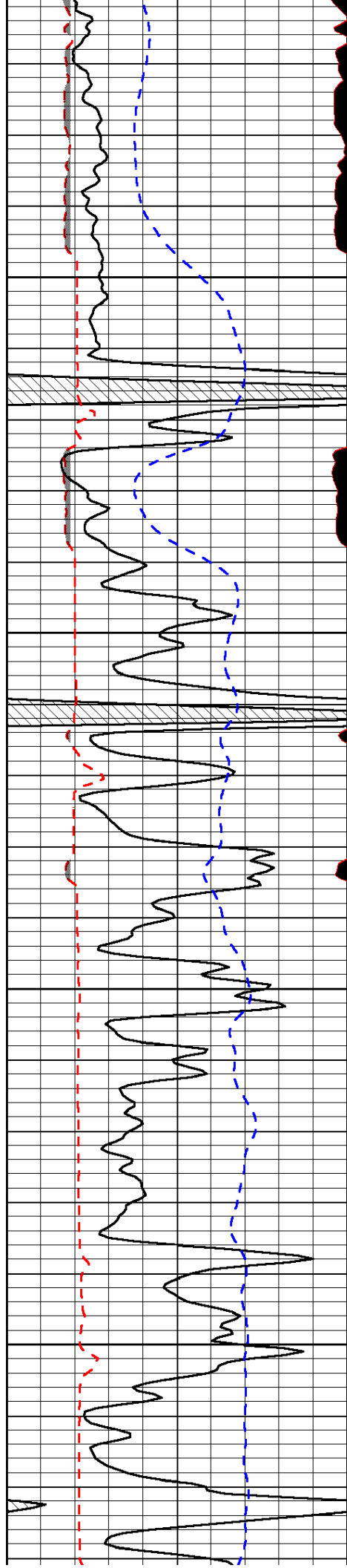
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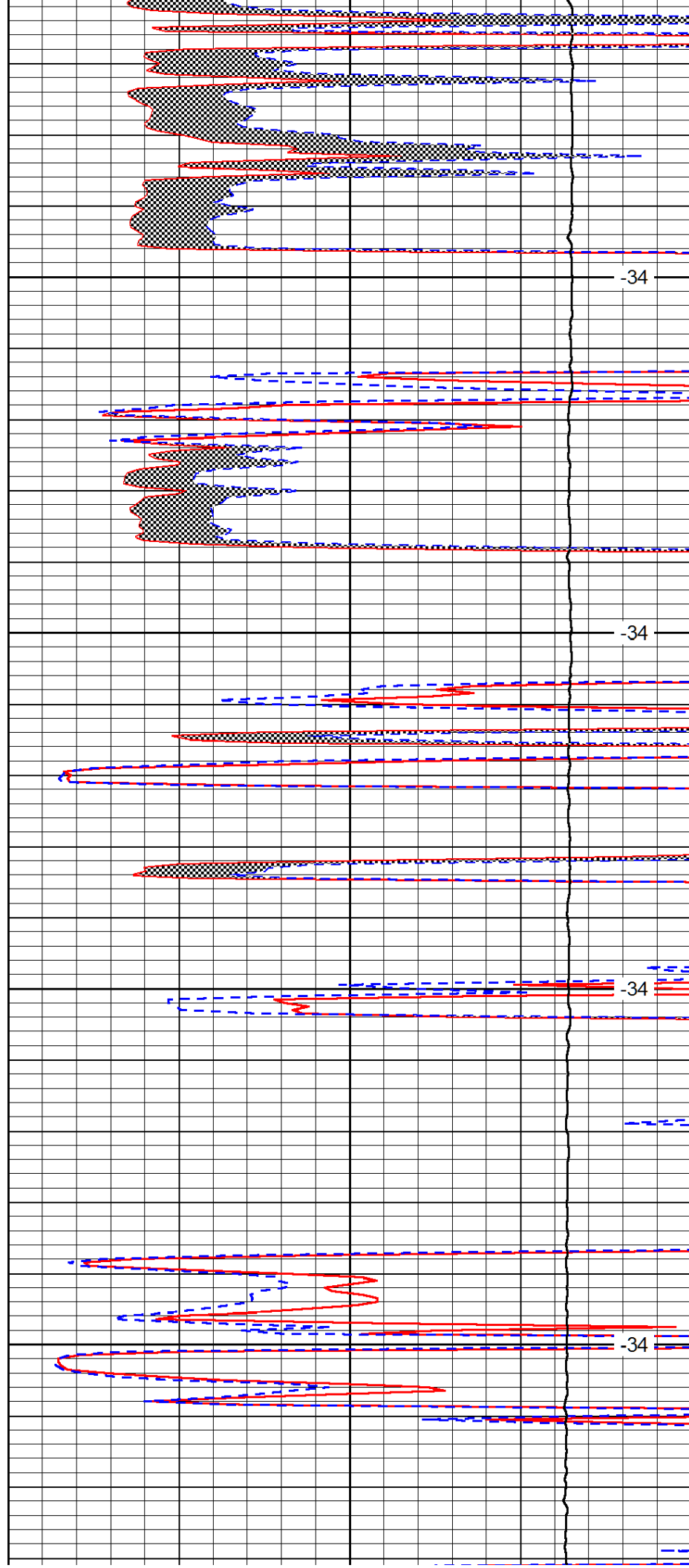


4400

4450

4500

4550

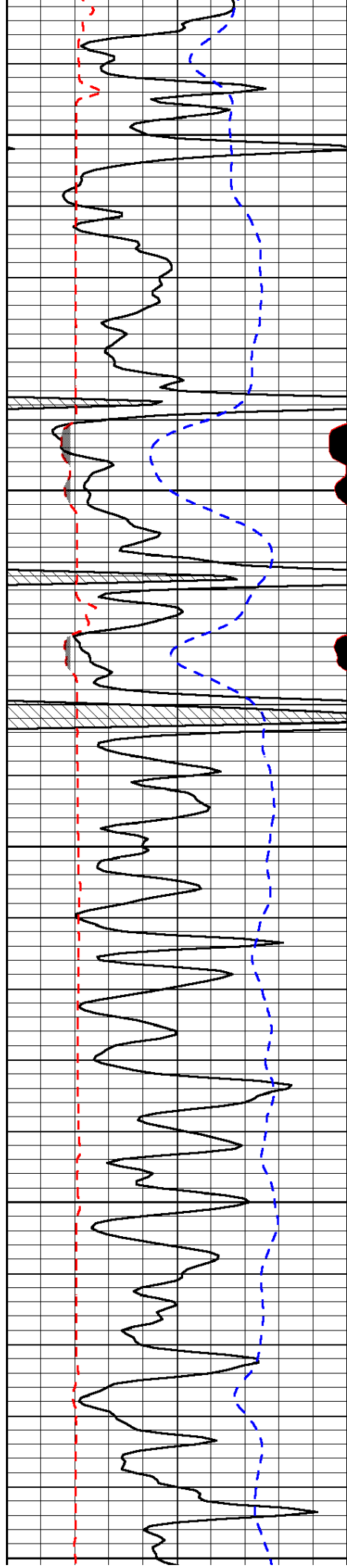


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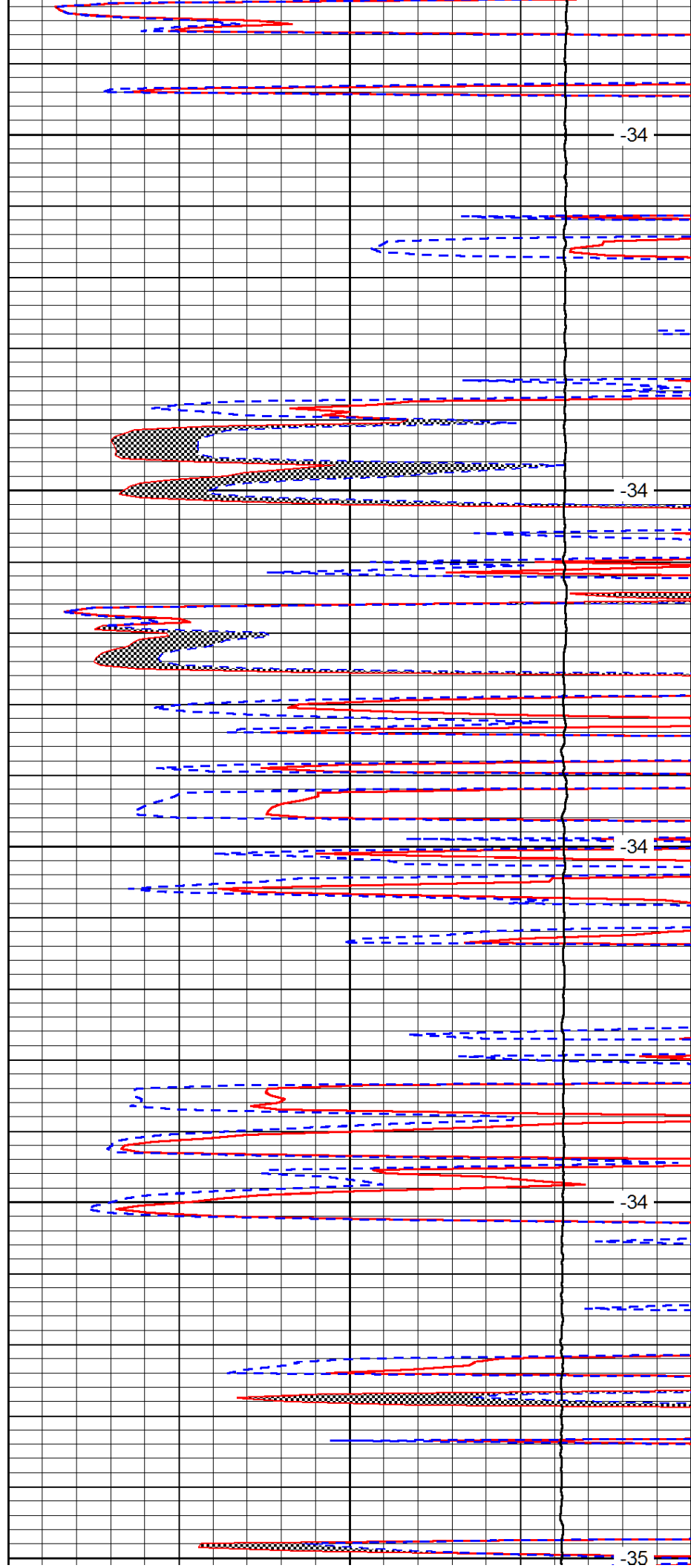
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4650

4700

4750

4800



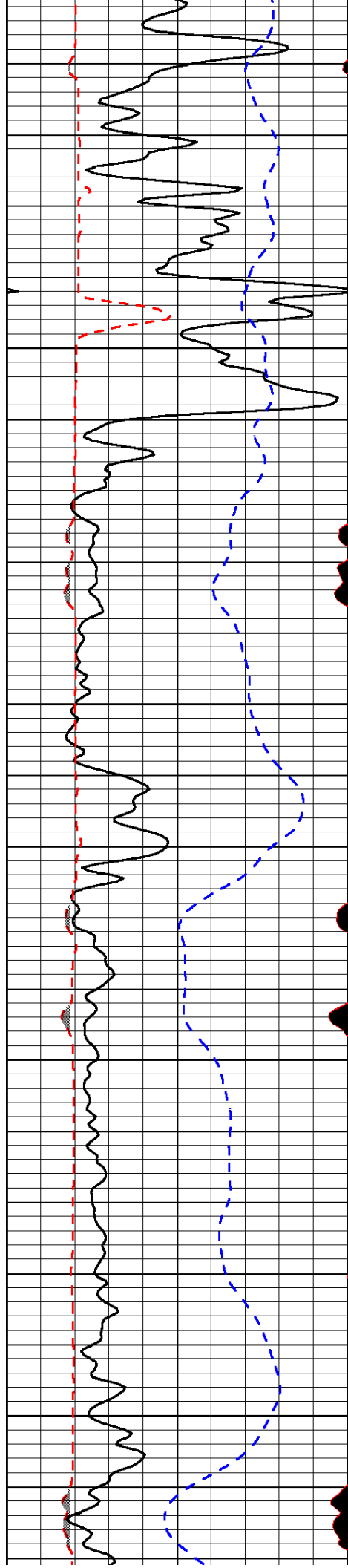
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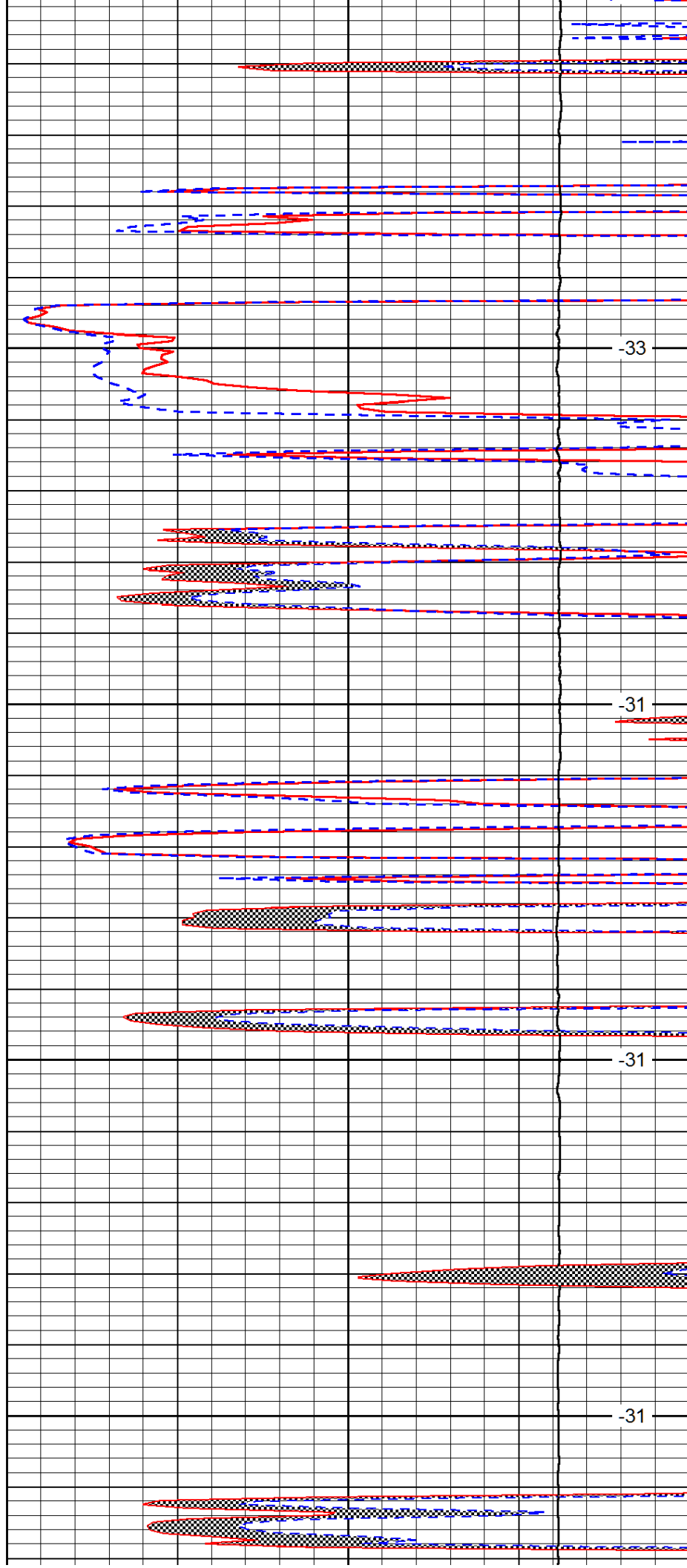


4850

4900

4950

5000

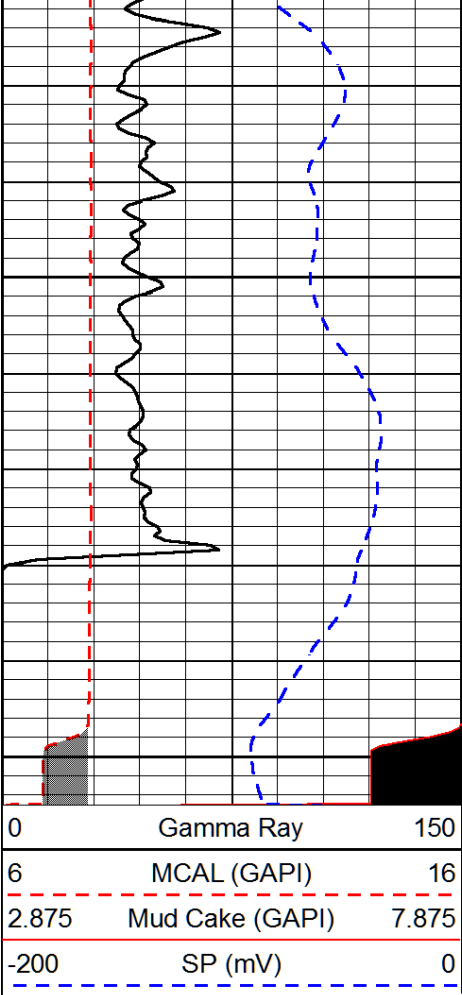


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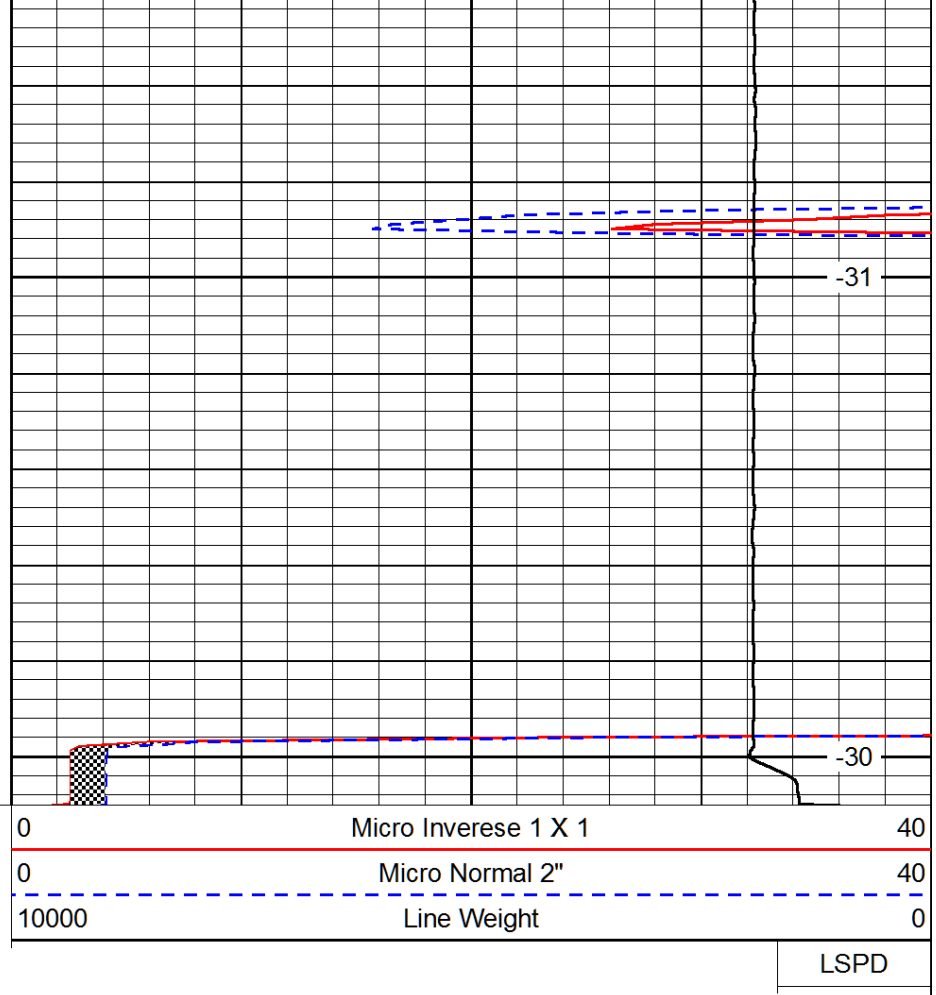
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5050

5100



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