



Microresistivity Log

Pioneer Energy Services

API No.

15-055-22,370-00-00

Company American Warrior, Inc.

Well O'Brate-Finney #3-5

Field Unknown

County Finney State Kansas

Location

2178' FSL & 2165' FWL

Sec: 5 Twp: 23S Rge: 32W

Other Services
CNL/CDL
DIL

Elevation

Permanent Datum Ground Level Elevation 2848
Log Measured From Kelly Bushing 11 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

K.B. 2859
D.F. 2848
G.L. 2848

Date 1/7/2015

Run Number Two

Depth Driller 4900

Depth Logger 4899

Bottom Logged Interval 4898

Top Log Interval 3750

Casing Driller 8.625 @ 1638

Casing Logger 1644

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 5600

Density / Viscosity 9.5 47

pH / Fluid Loss 9.5 8.8

Source of Sample Flowline

Rm @ Meas. Temp 0.70 @ 58

Rmf @ Meas. Temp 0.53 @ 58

Rmc @ Meas. Temp 0.95 @ 58

Source of Rmf / Rmc Charts

Rm @ BHT 0.32 @ 125

Operating Rig Time 4 1/2 Hours

Max Rec. Temp. F 125

Equipment Number 15

Location Hays

Recorded By D.Kerr

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 Pioneer Energy Services
www.pioneerres.com
785 625 3858

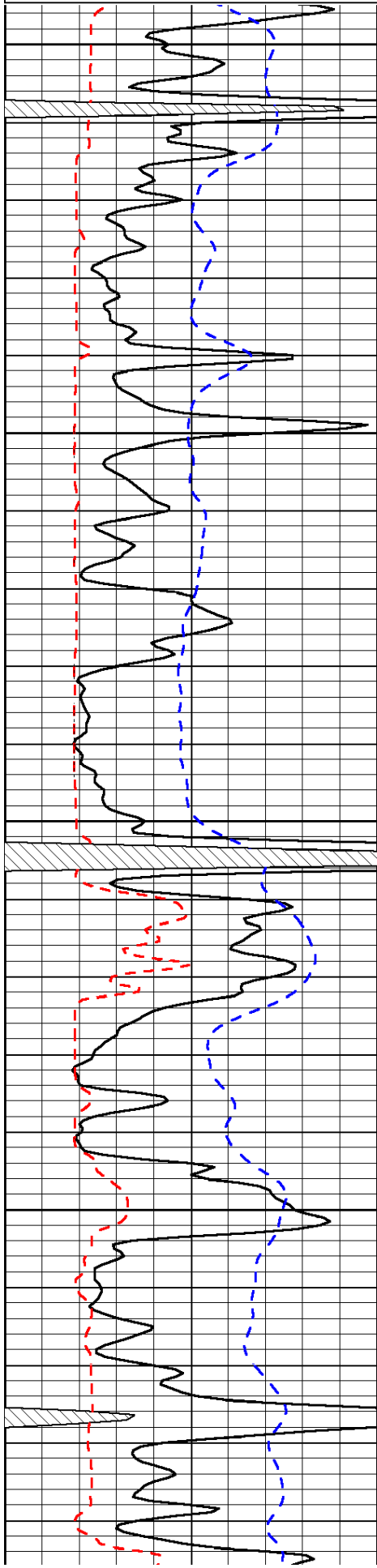
Garden City KS, 5 North to 6 Mile RD,
1 East, 1 North, East Into

Database File: c:\warrior\data\amwar_o'brate-finney #3-5\amwarrior_obratefinney_3_5hd.db
Dataset Pathname: DIL\awstk
Presentation Format: micro
Dataset Creation: Wed Jan 07 13:25:15 2015
Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150
6	MCAL (GAPI)	16
-200	SP (mV)	0

0	Micro Inverse 1 X 1	40
0	Micro Normal 2"	40
15000	Line Weight	0

LSPD

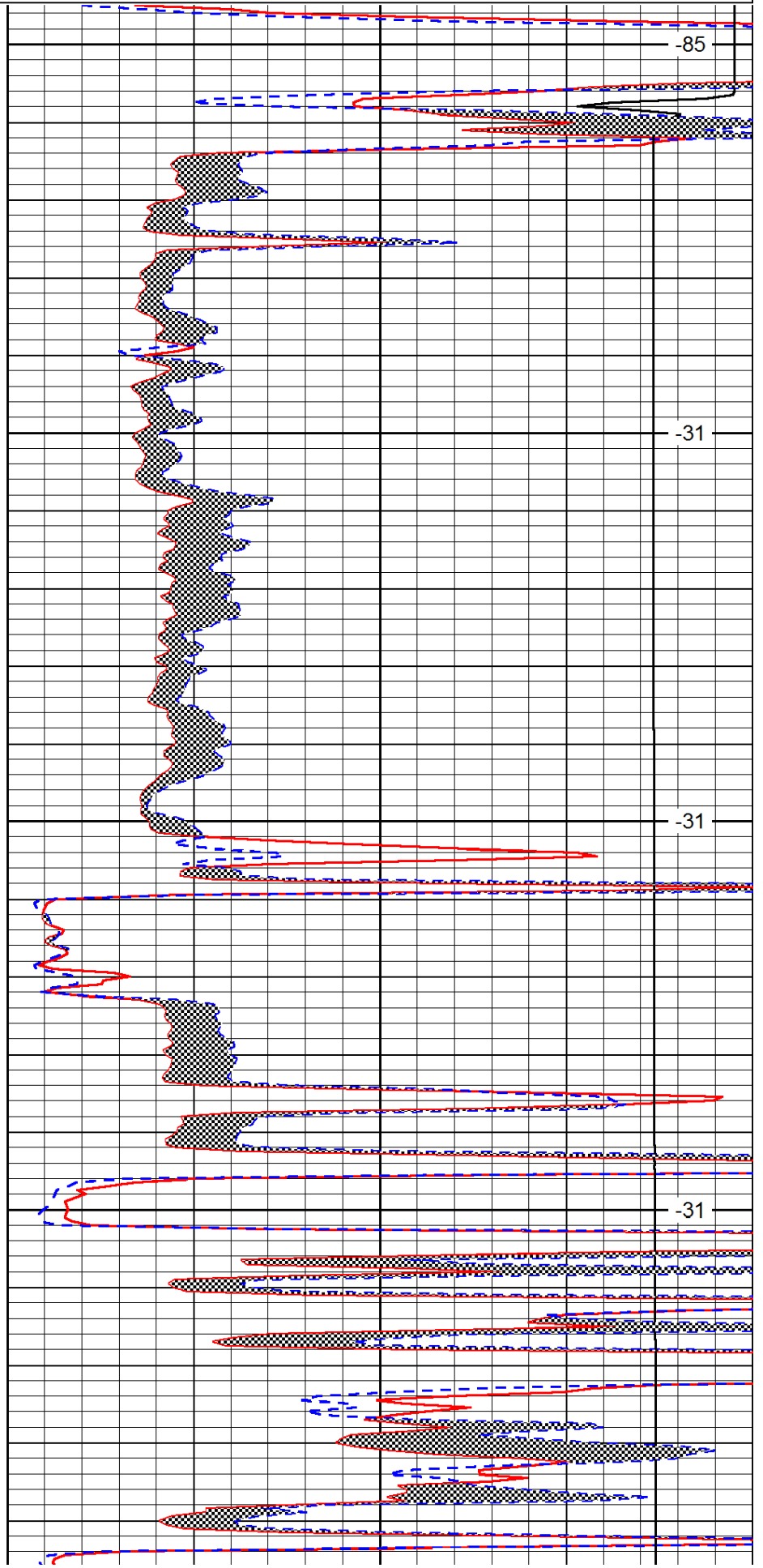


3750

3800

3850

3900

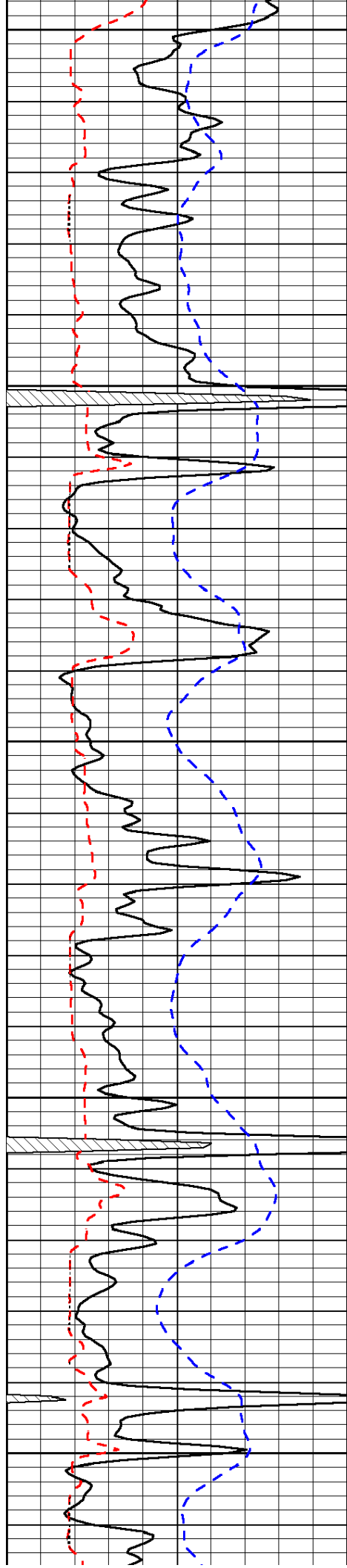


-85

-31

-31

-31



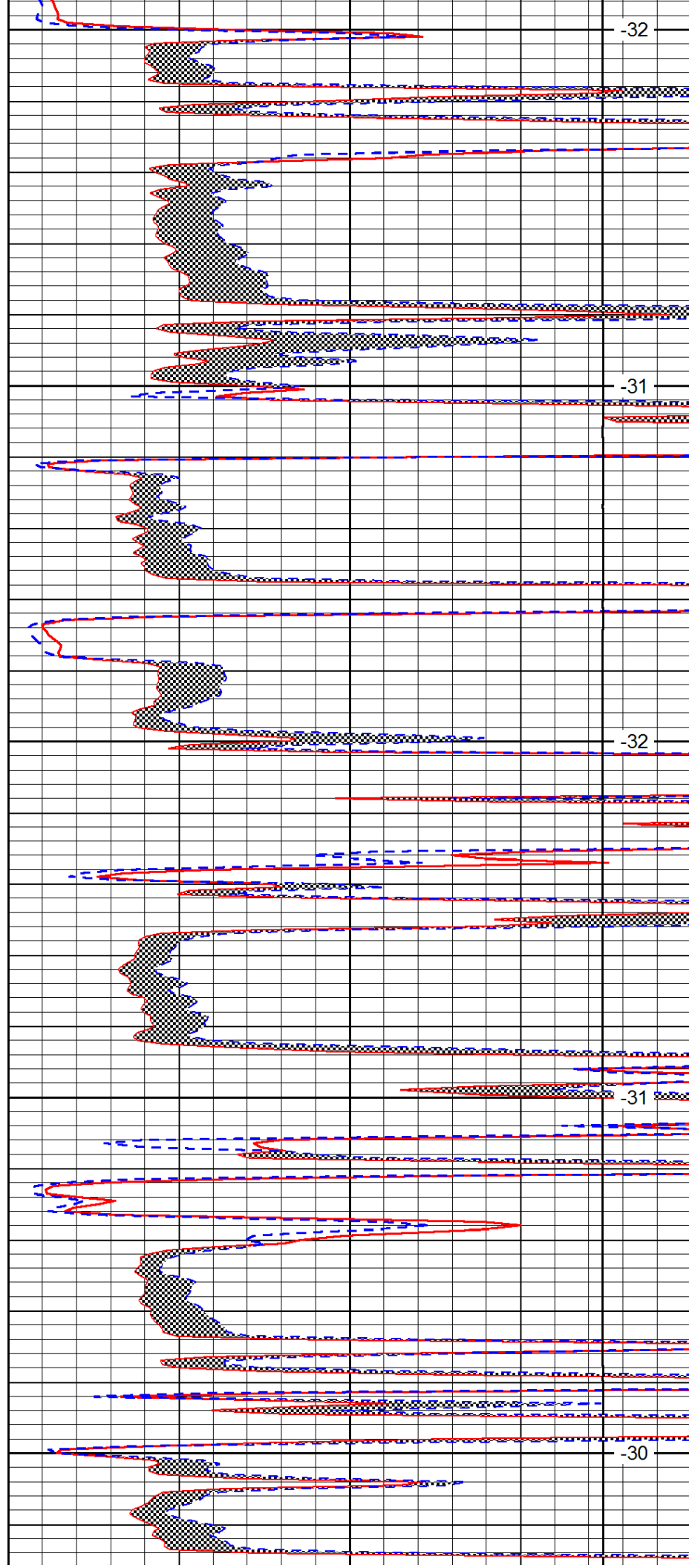
3950

4000

4050

4100

4150



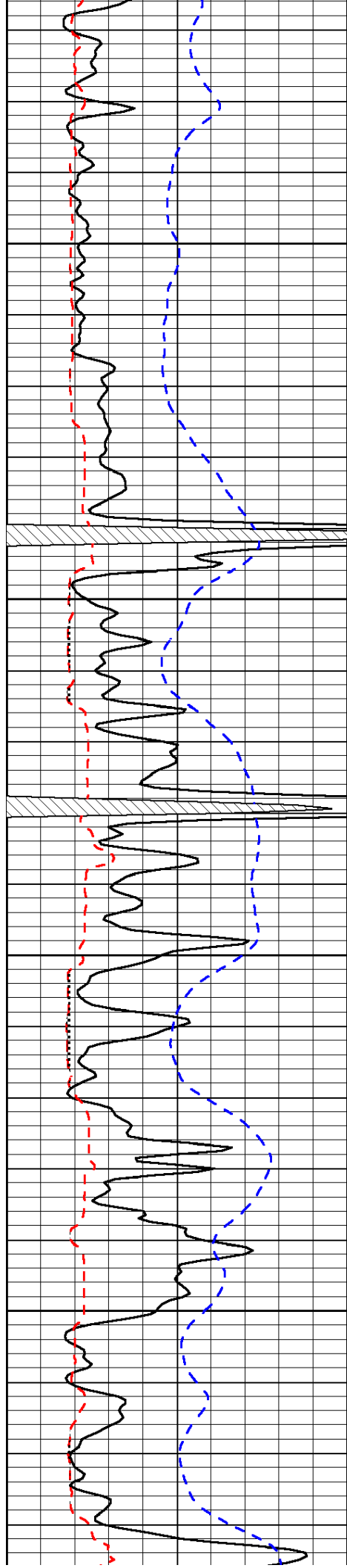
-32

-31

-32

-31

-30

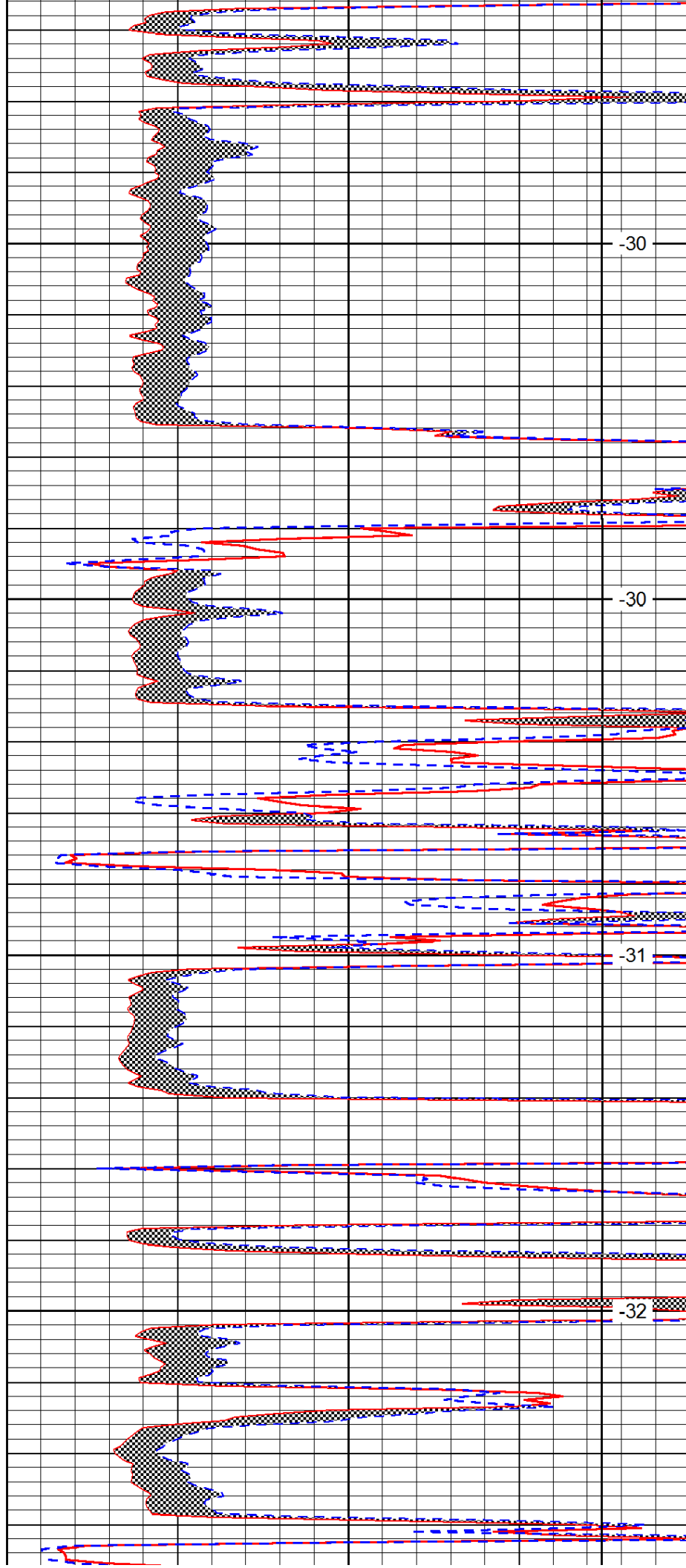


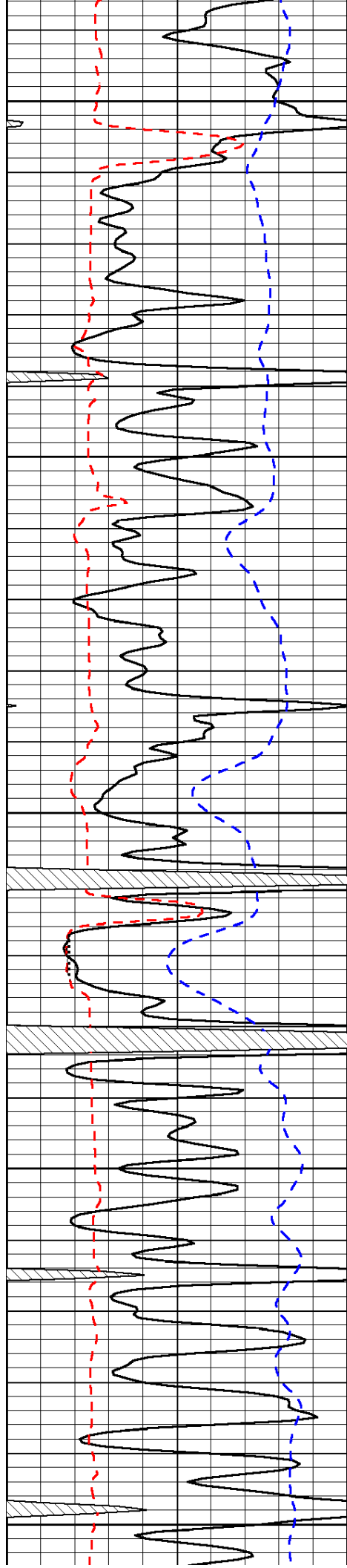
4200

4250

4300

4350





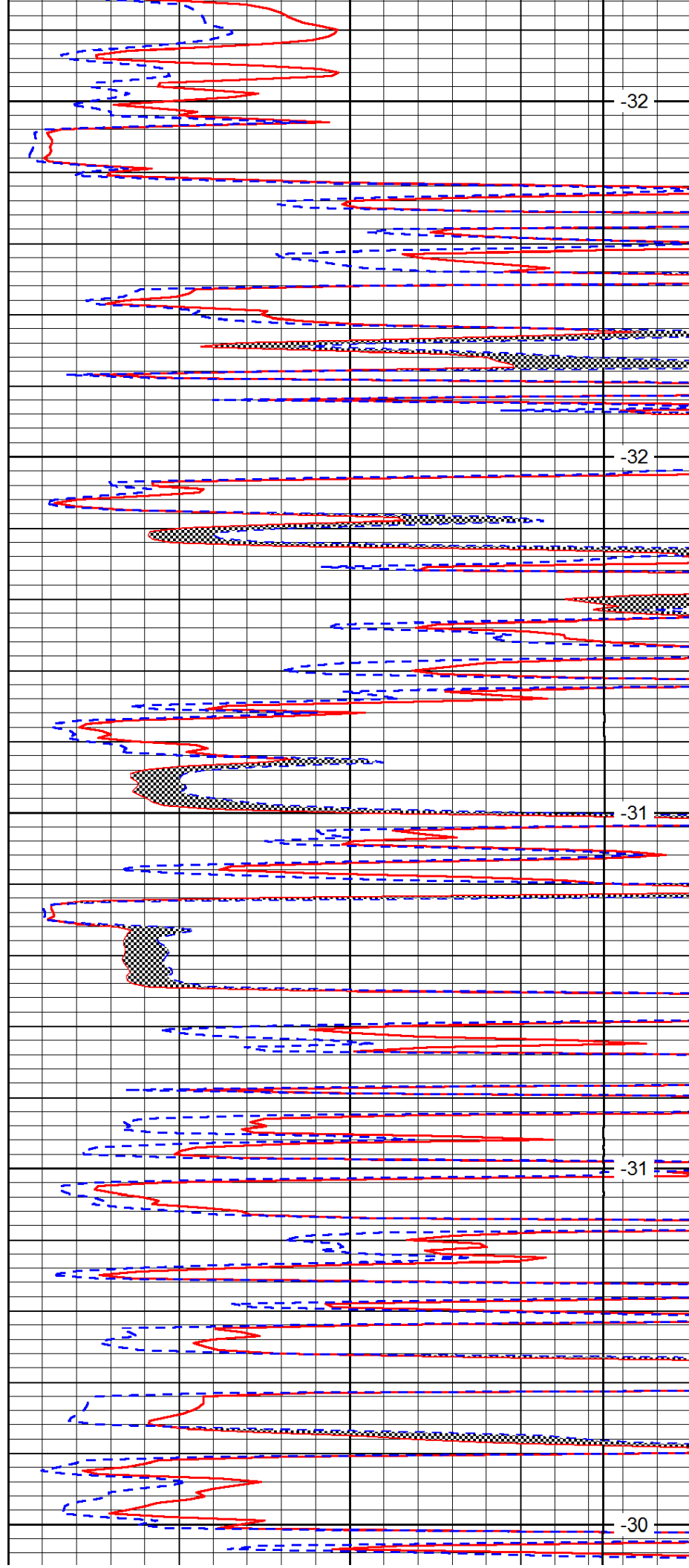
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4450

4500

4550

4600



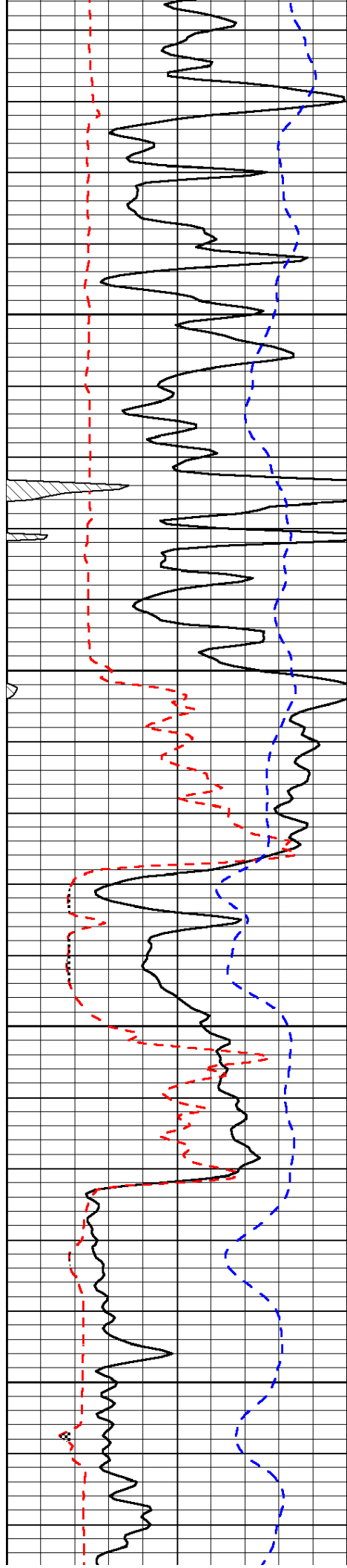
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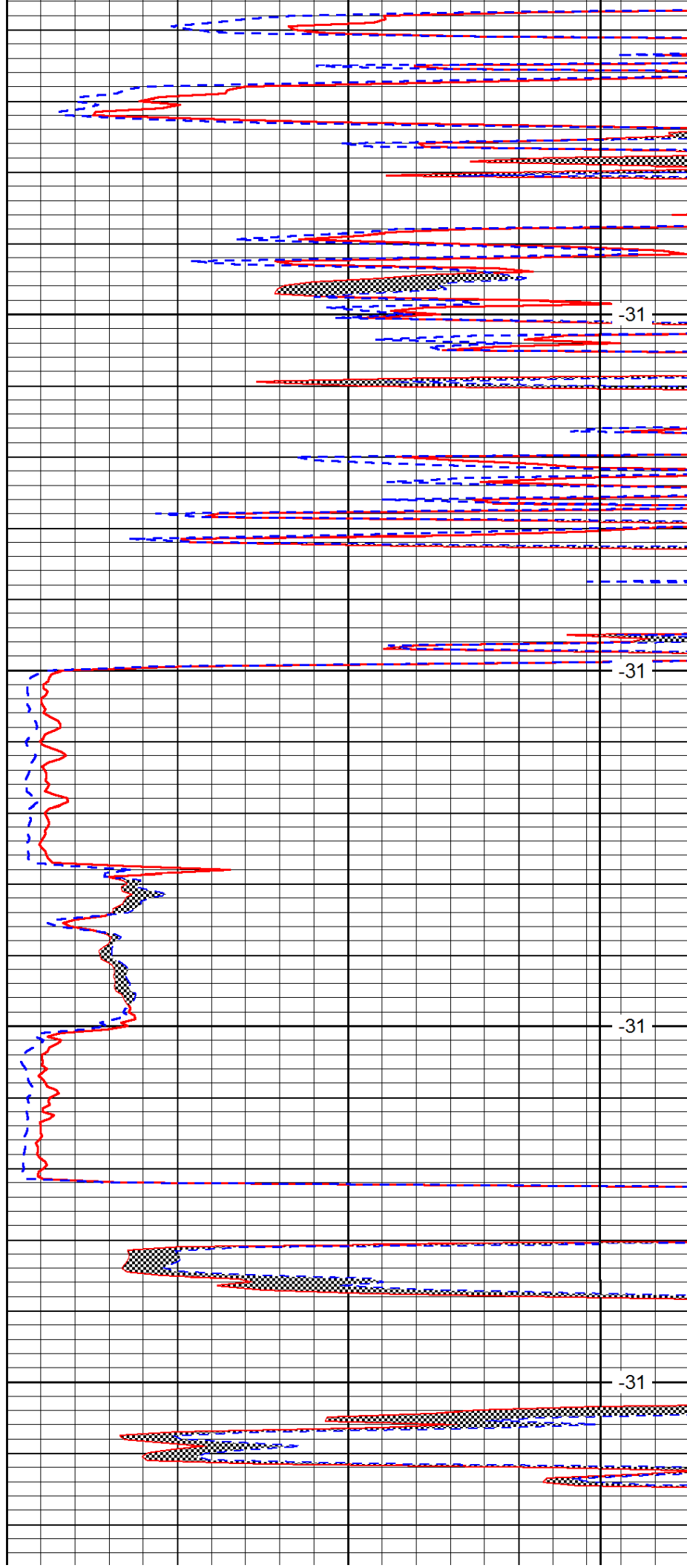


4650

4700

4750

4800

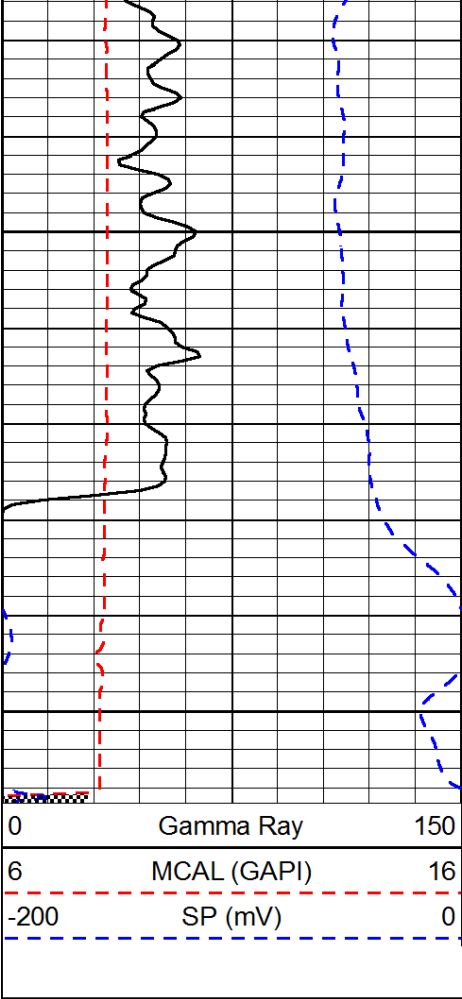


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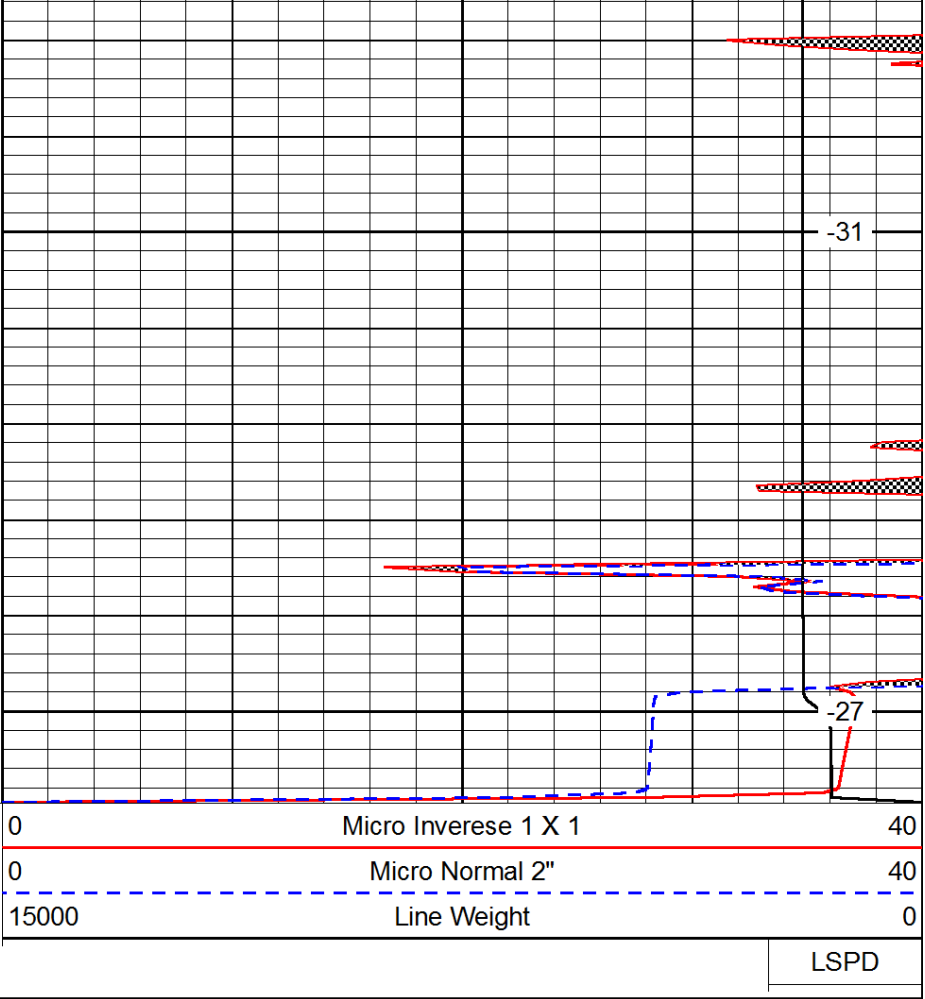
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-31



4850

4900



-31

-27