



Microresistivity Log

Pioneer Energy Services

API No.

15-109-21,292-00-00

Company New Gulf Operating, LLC

Well Marius #1-15

Field

County Logan

State

Kansas

Location

SW-SW-NW-SE
1388' FSL & 2379' FWL

Other Services
CNL/CDL
DIL

Sec: 15

Twp: 14S

Rge: 34W

Elevation

Permanent Datum Ground Level

Log Measured From Kelly Bushing

Elevation 3029

Drilling Measured From Kelly Bushing

9 Ft. Above Perm. Datum

K.B. 3038
D.F. 3029
G.L. 3029

Date

9/7/2014

Run Number

Two

Depth Driller

4765

Depth Logger

4764

Bottom Logged Interval

4763

Top Log Interval

3500

Casing Driller

8.625 @ 252

Casing Logger

263

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

7.000

Density / Viscosity

9.1 56

pH / Fluid Loss

10.0 9.6

Source of Sample

Flowline

Rm @ Meas. Temp

.28 @ 74

Rmf @ Meas. Temp

.21 @ 74

Rmc @ Meas. Temp

.38 @ 74

Source of Rmf / Rmc

Charts

Rm @ BHT

.17 @ 124

Operating Rig Time

5 Hours

Max Rec. Temp. F

124

Equipment Number

108

Location

Hays

Recorded By

J. Henrickson

Witnessed By

John Goldsmith

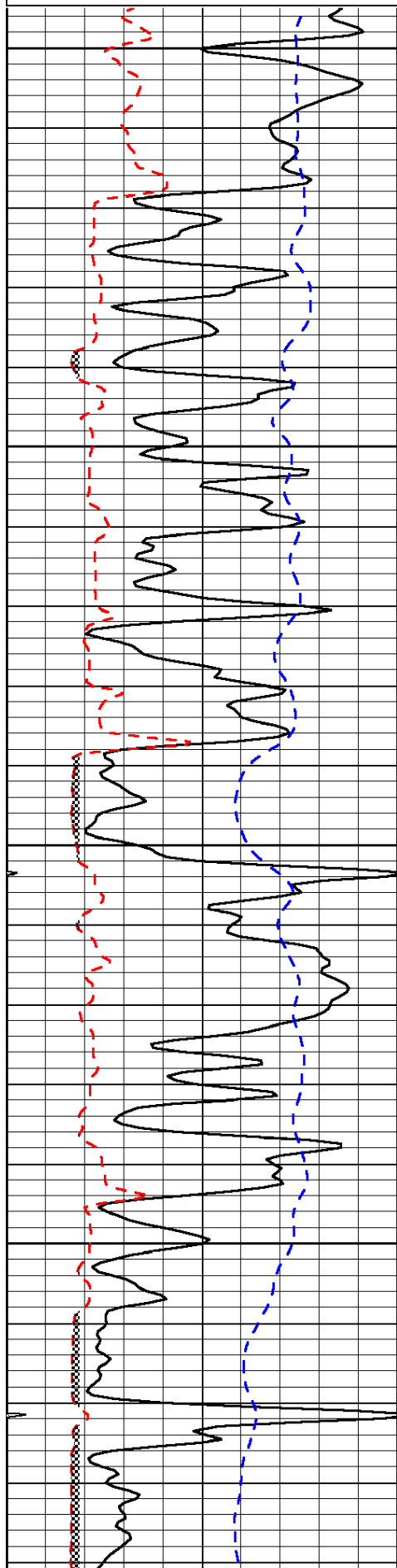
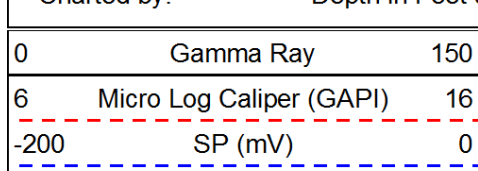
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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on 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
Russell Springs Kansas
1/2 East to 270 Rd, 7 South to Indian Rd, East to 320 Rd, 1 North, West Into

Database File: c:\warrior\data\new gulf_marius #1-15\newgulf_marius_1_15hd.db
Dataset Pathname: DIL/newstk
Presentation Format: micro
Dataset Creation: Sun Sep 07 22:14:49 2014
Charted by: Depth in Feet scaled 1:240

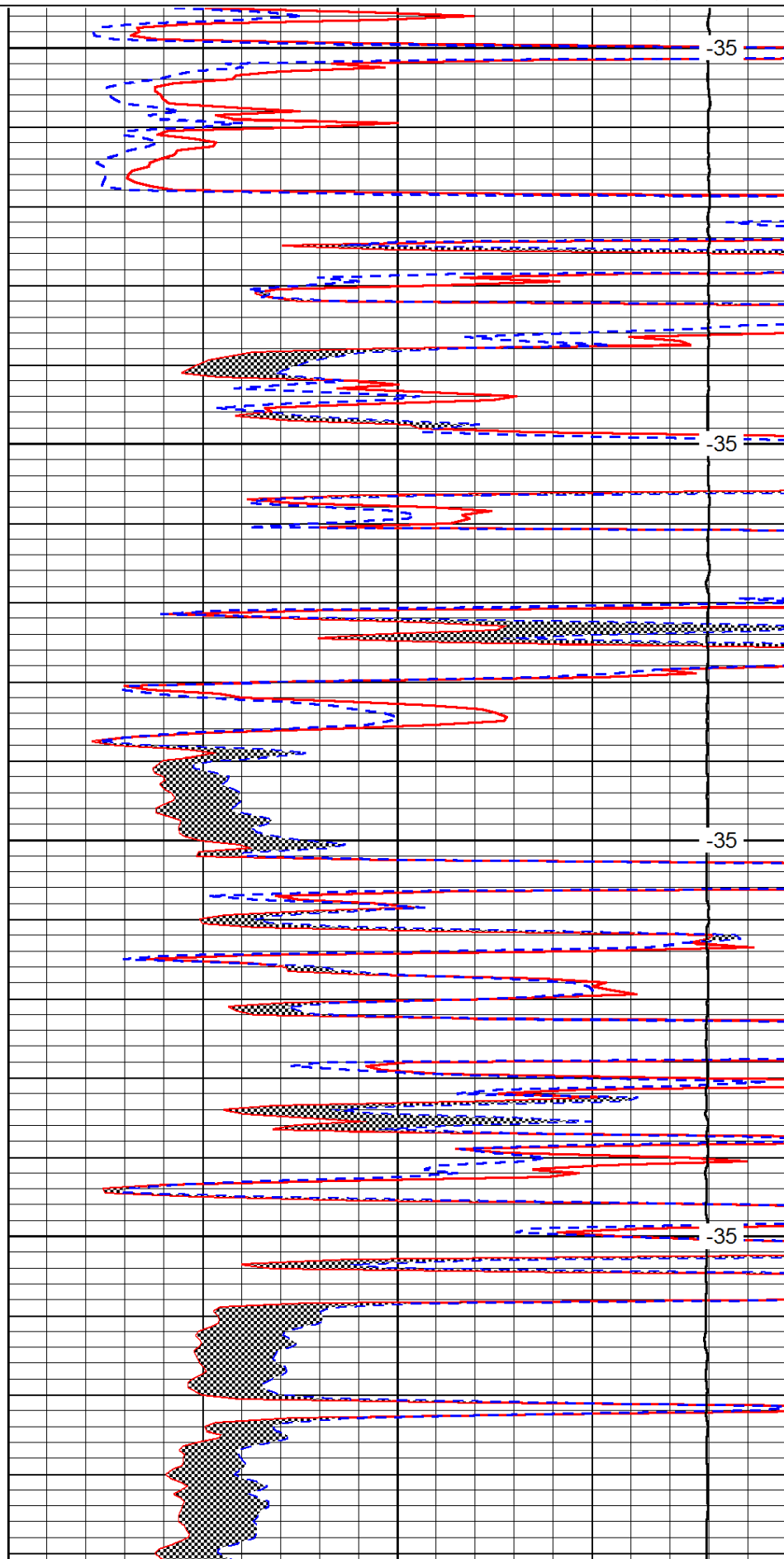


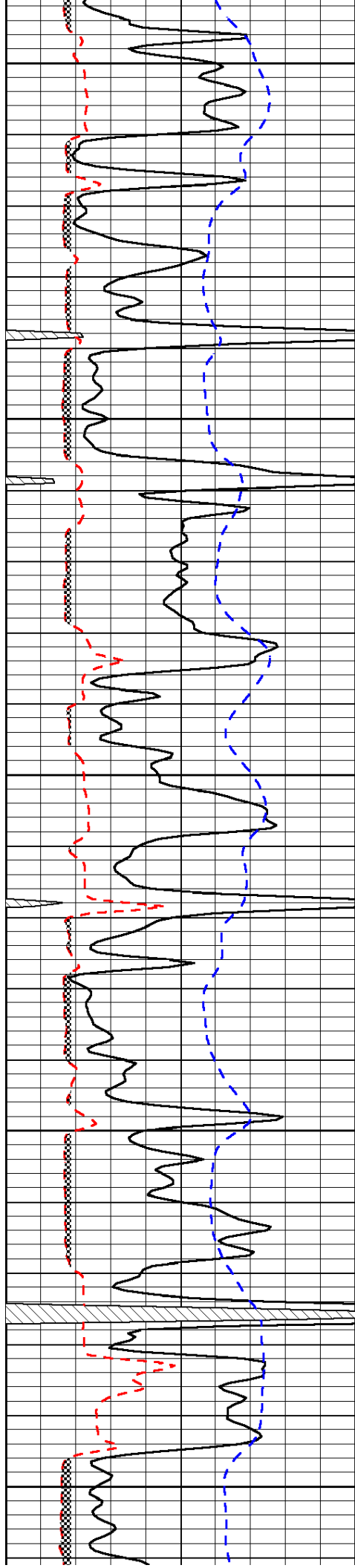
3500

3550

3600

3650





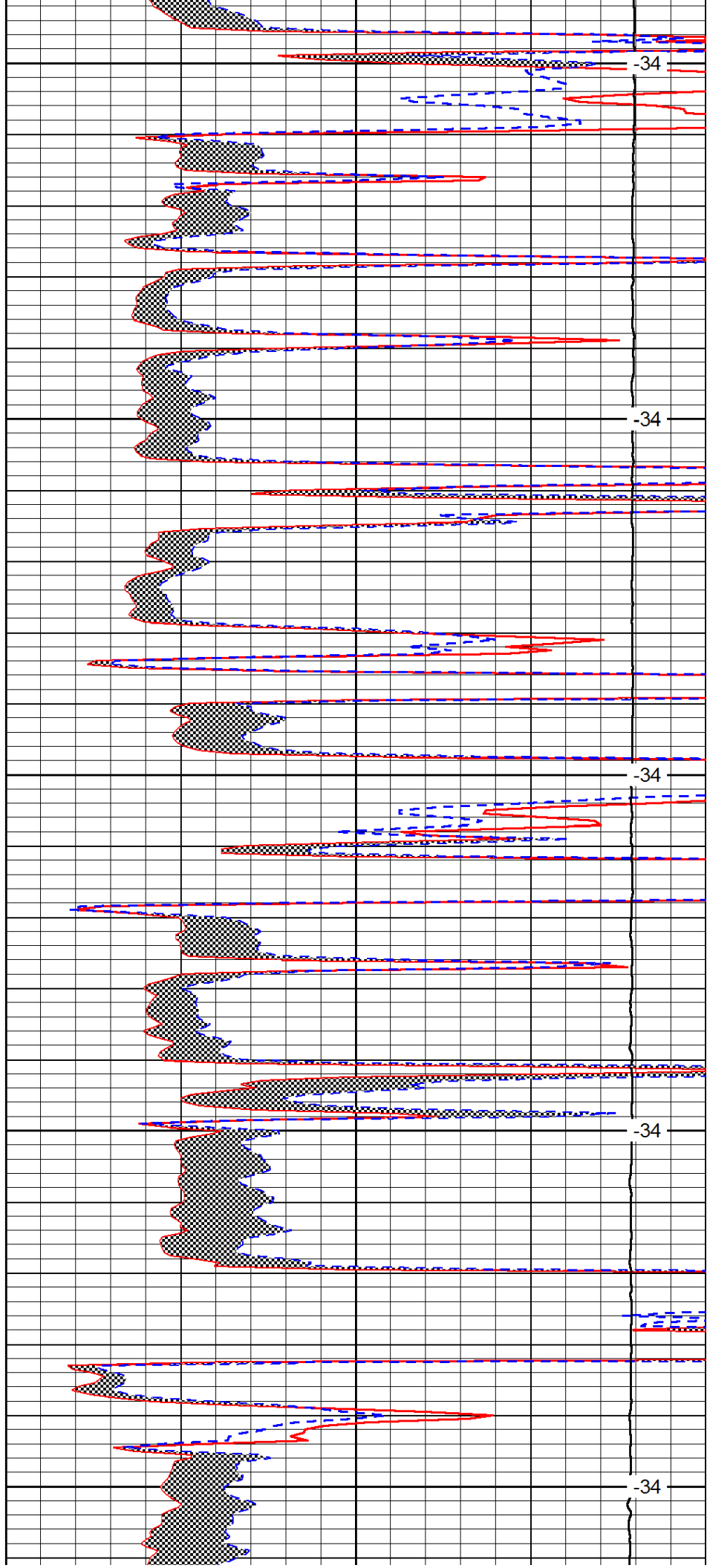
3700

3750

3800

3850

3900



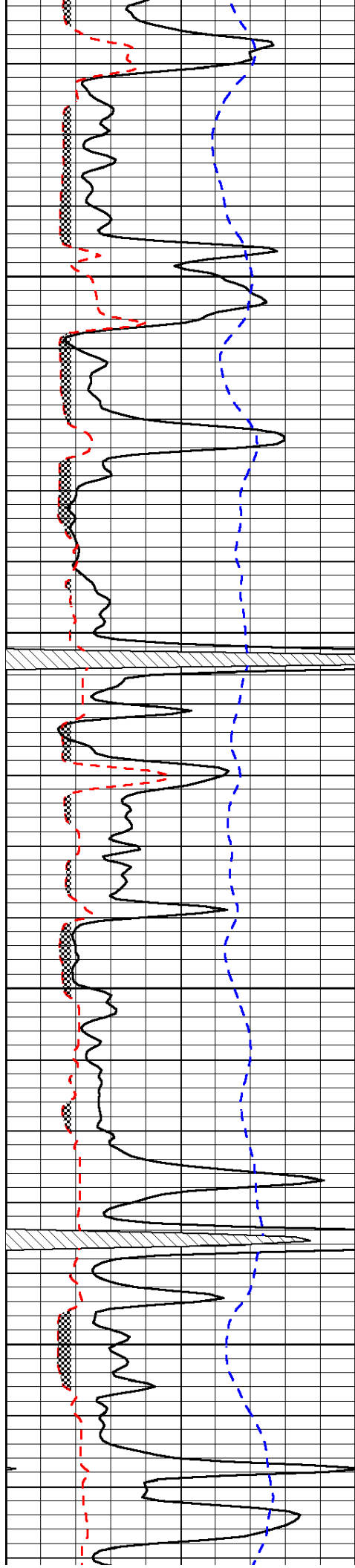
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-34

-34

-34

-34

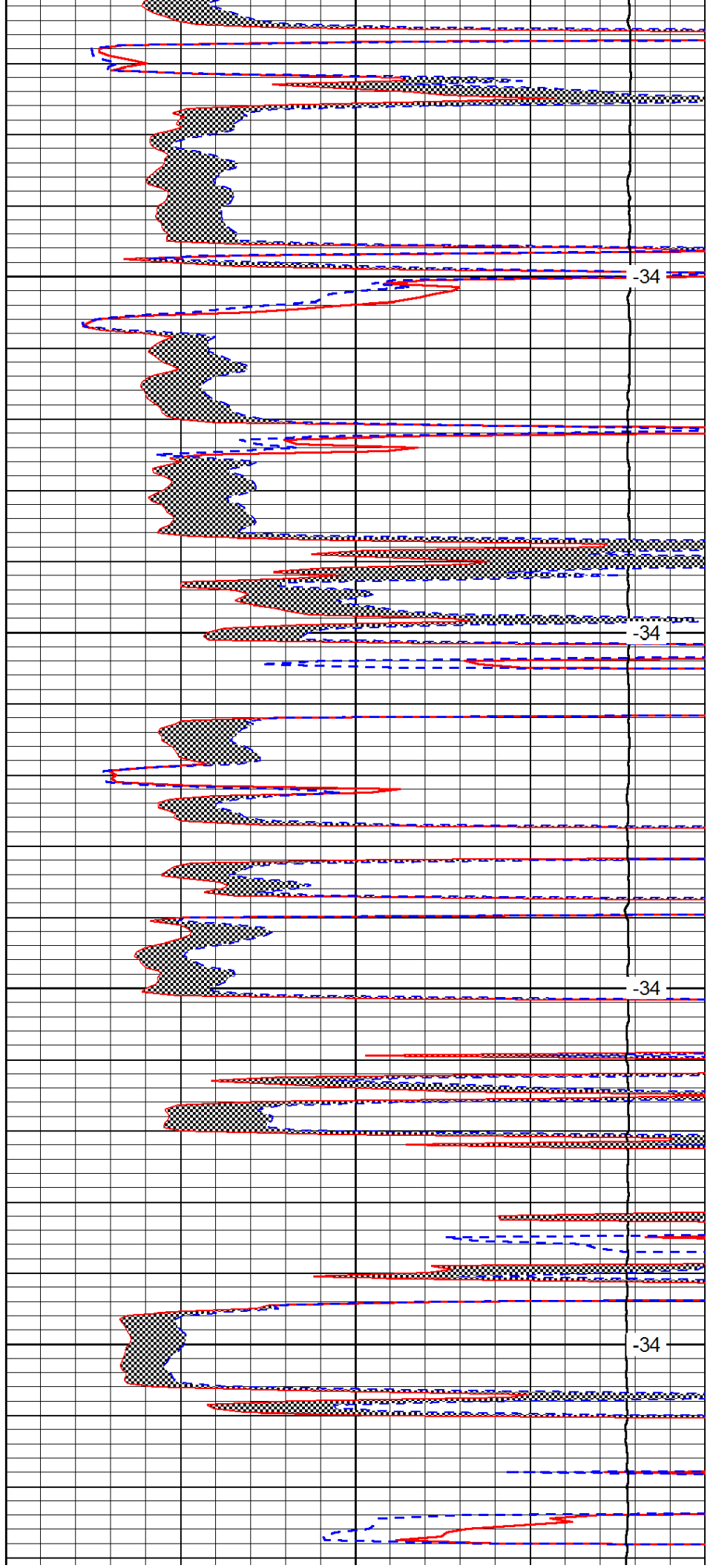


3950

4000

4050

4100

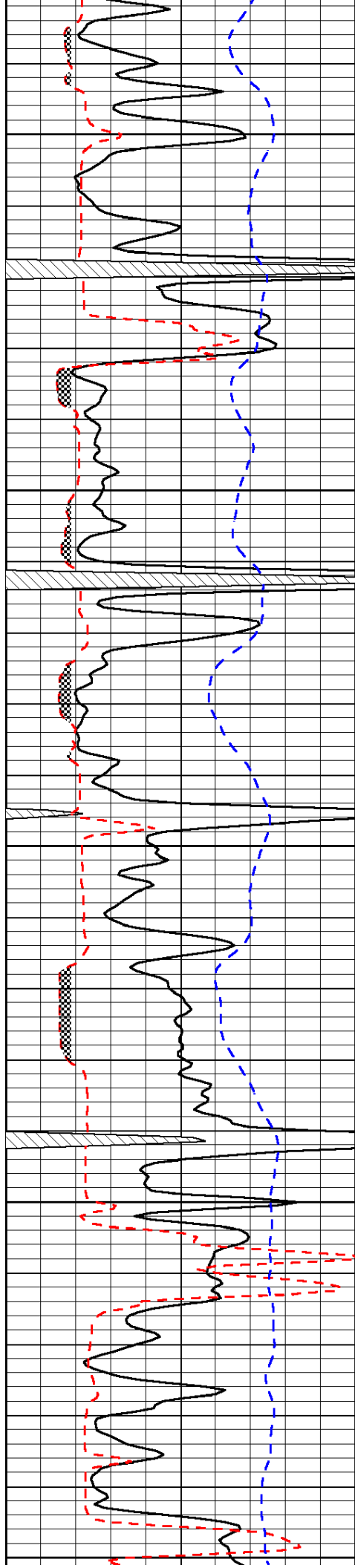


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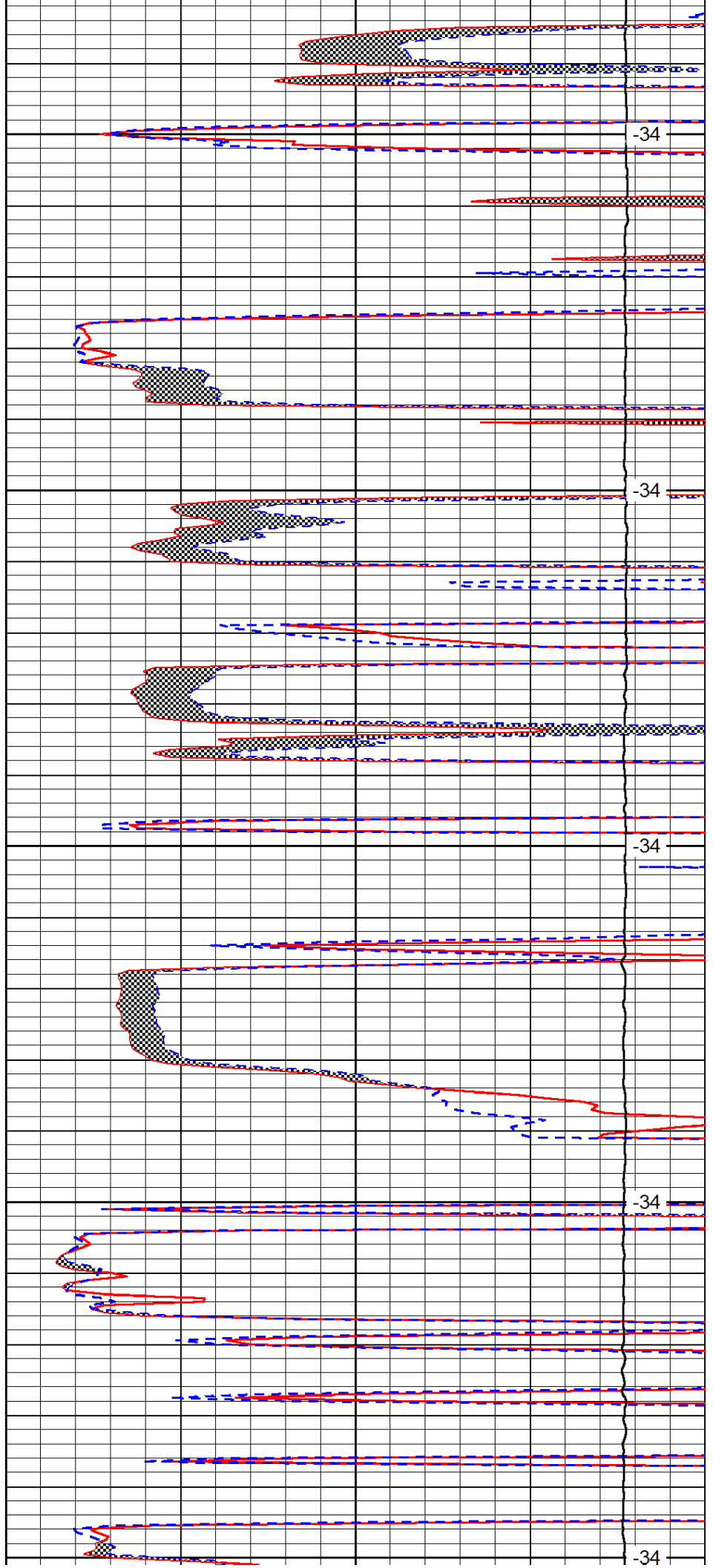
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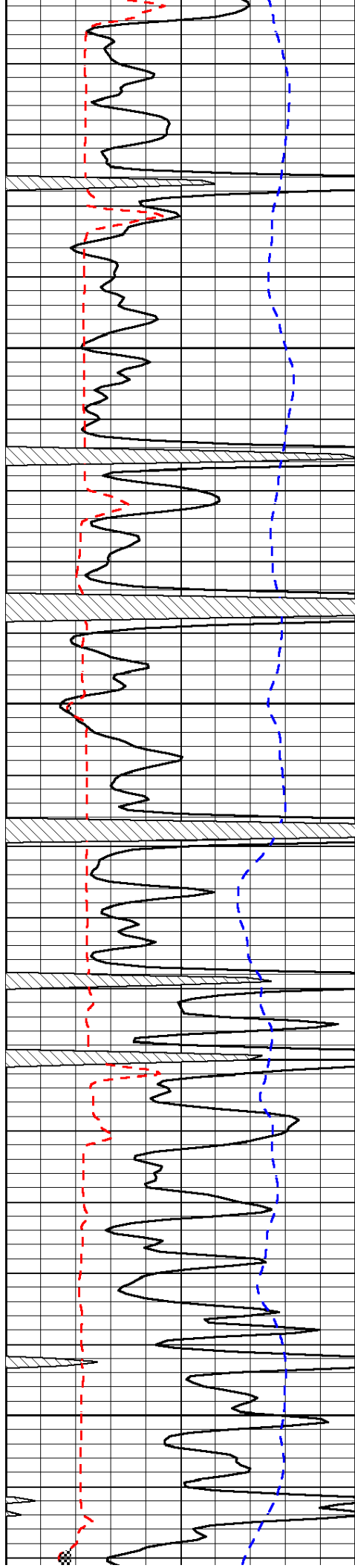
4200

4250

4300

4350



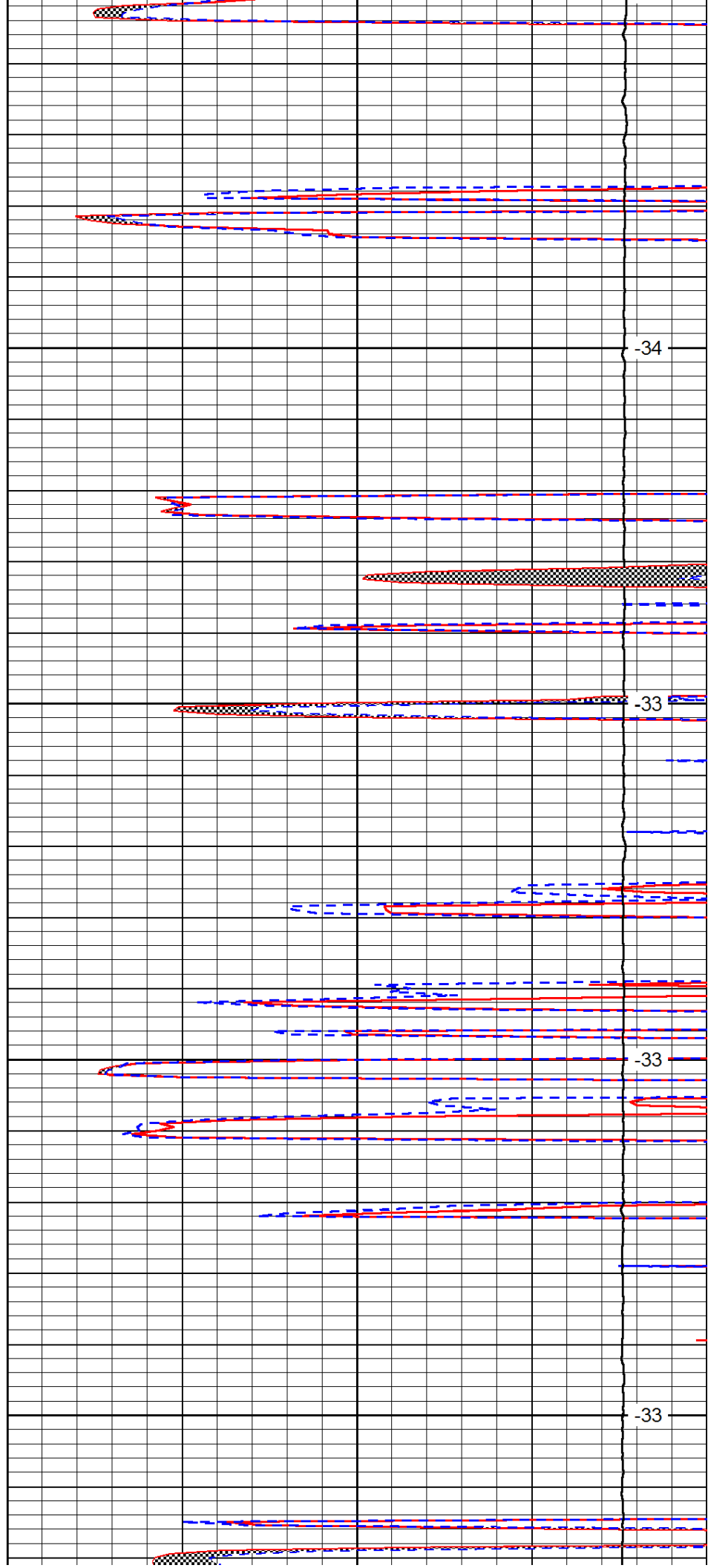


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4450

4500

4550

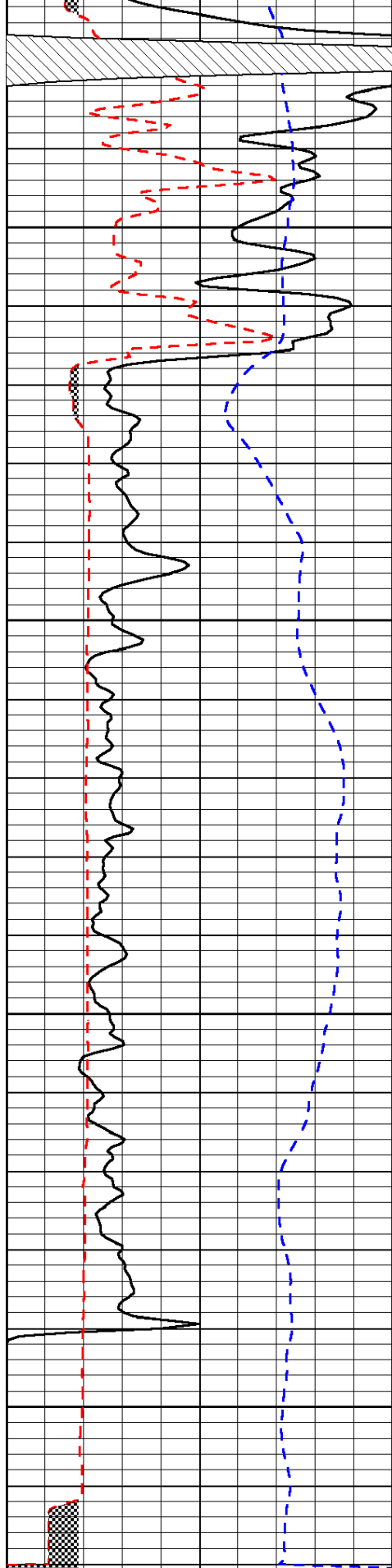


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-33



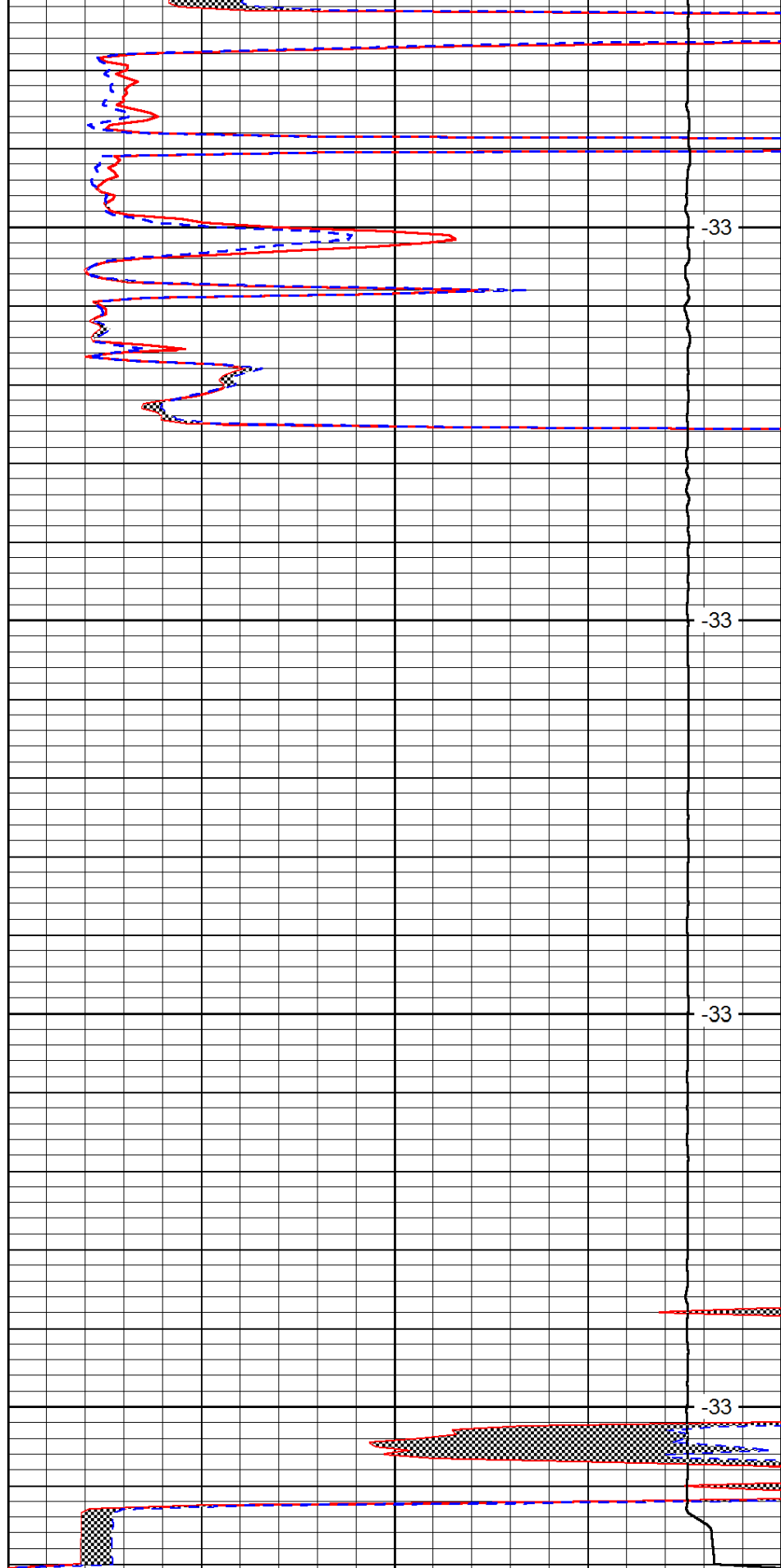
0	Gamma Ray	150
6	Micro Log Caliper (GAPI)	16
-200	SP (mV)	0

4600

4650

4700

4750



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

LSPD

