



Microresistivity Log

Pioneer Energy Services

API No.

15-095-22,279-00-00

Company Molitor Oil, Inc.

Well Cross #4

Field Spivey-Grabs-Basil

County Kingman State

Kansas

Location

1086' FNL & 330' FEL

Sec: 31

Twp: 29S

Rge: 8W

Elevation

K.B. 1571

D.F. 1561

G.L. 1561

Other Services
CNL/CDL
DIL

Permanent Datum Ground Level Elevation 1561

Log Measured From Kelly Bushing 10 Ft. Above Perm. Datum

Drilling Measured From Kelly Bushing

Date

11/17/2013

Run Number

Two

Depth Driller

4499

Depth Logger

4506

Bottom Logged Interval

4505

Top Log Interval

3000

Casing Driller

8.625 @ 221

Casing Logger

221

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

2,000

Density / Viscosity

9.1 46

pH / Fluid Loss

10.0 9.6

Source of Sample

Flowline

Rm @ Meas. Temp

.85 @ 60

Rmf @ Meas. Temp

.64 @ 60

Rmc @ Meas. Temp

1.15 @ 60

Source of Rmf / Rmc

Charts

Rm @ BHT

.42 @ 121

Operating Rig Time

4 Hours

Max Rec. Temp. F

121

Equipment Number

17

Location

Hays

Recorded By

C. Desaire

Witnessed By

Max Lovely

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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.

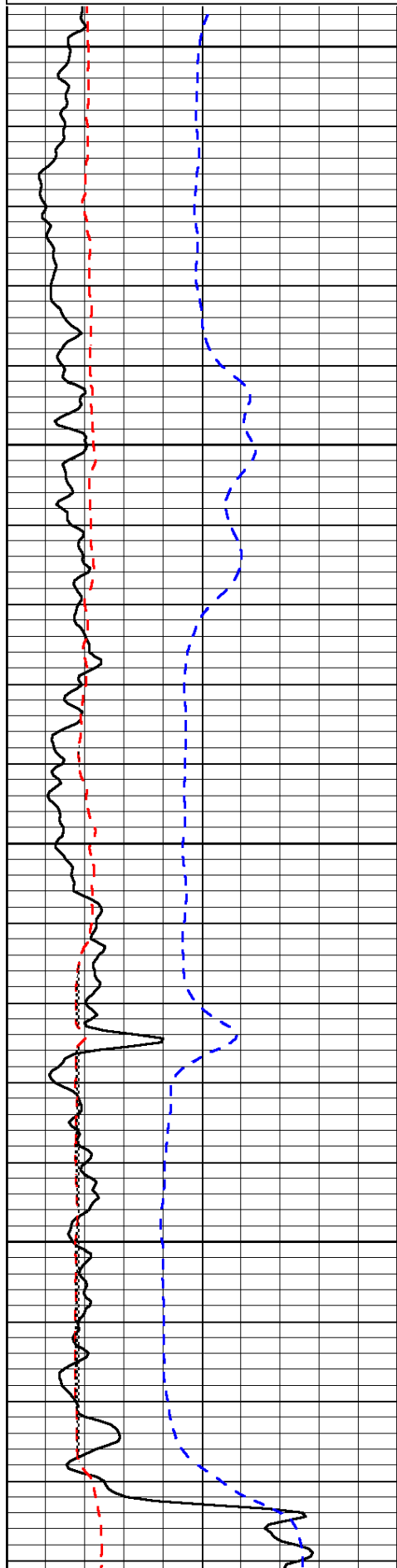
Comments

Thank you for using Pioneer Energy Services
www.pioneerres.com
785 625 3858

Zenda KS, 3 N,
4 E, 1/4 S, W Into

Database File: c:\warrior\data\molitor oil_cross #4\molitorhd.db
Dataset Pathname: dil/molstk
Presentation Format: micro
Dataset Creation: Sun Nov 17 13:25:25 2013
Charted by: Depth in Feet scaled 1:240

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



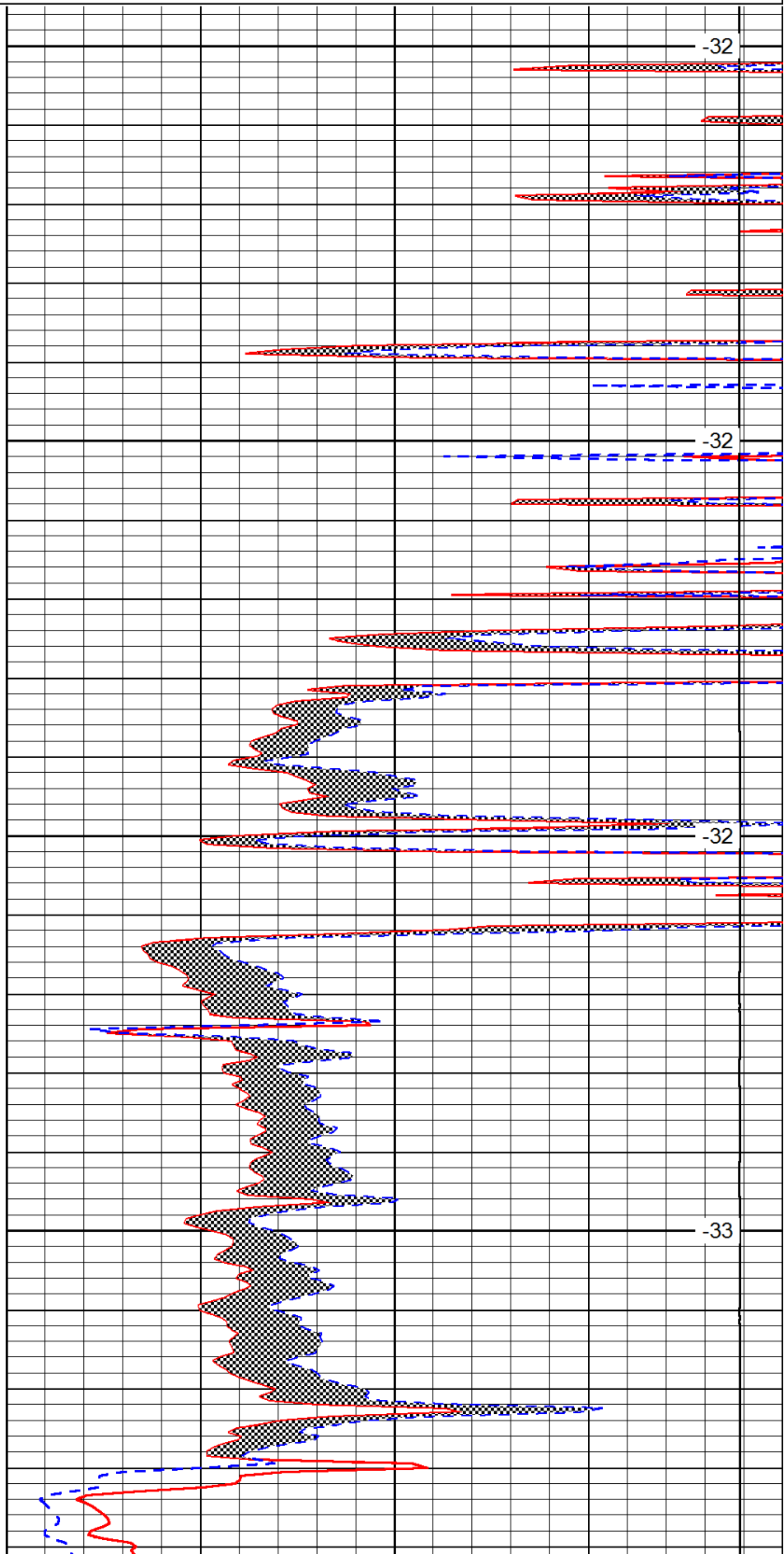
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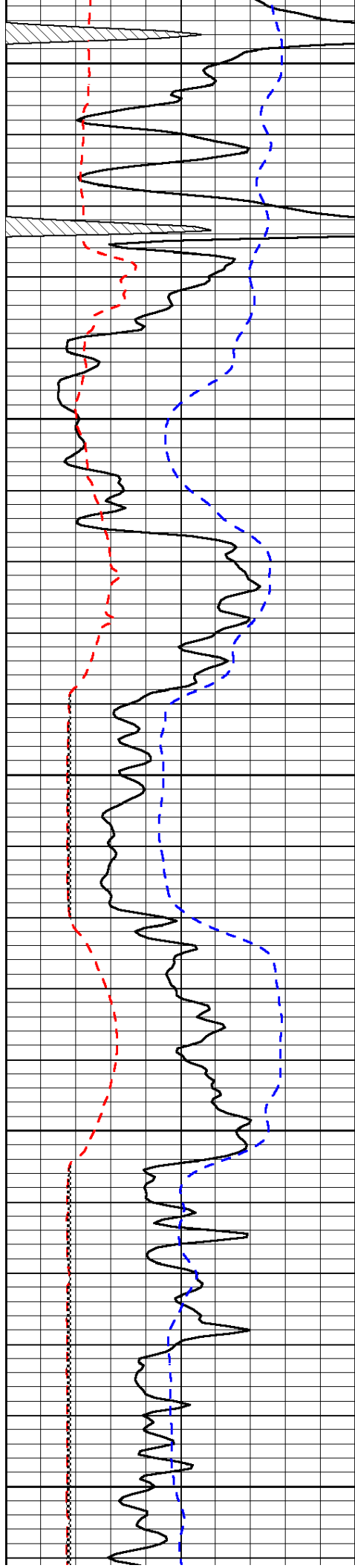
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3100

3150

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





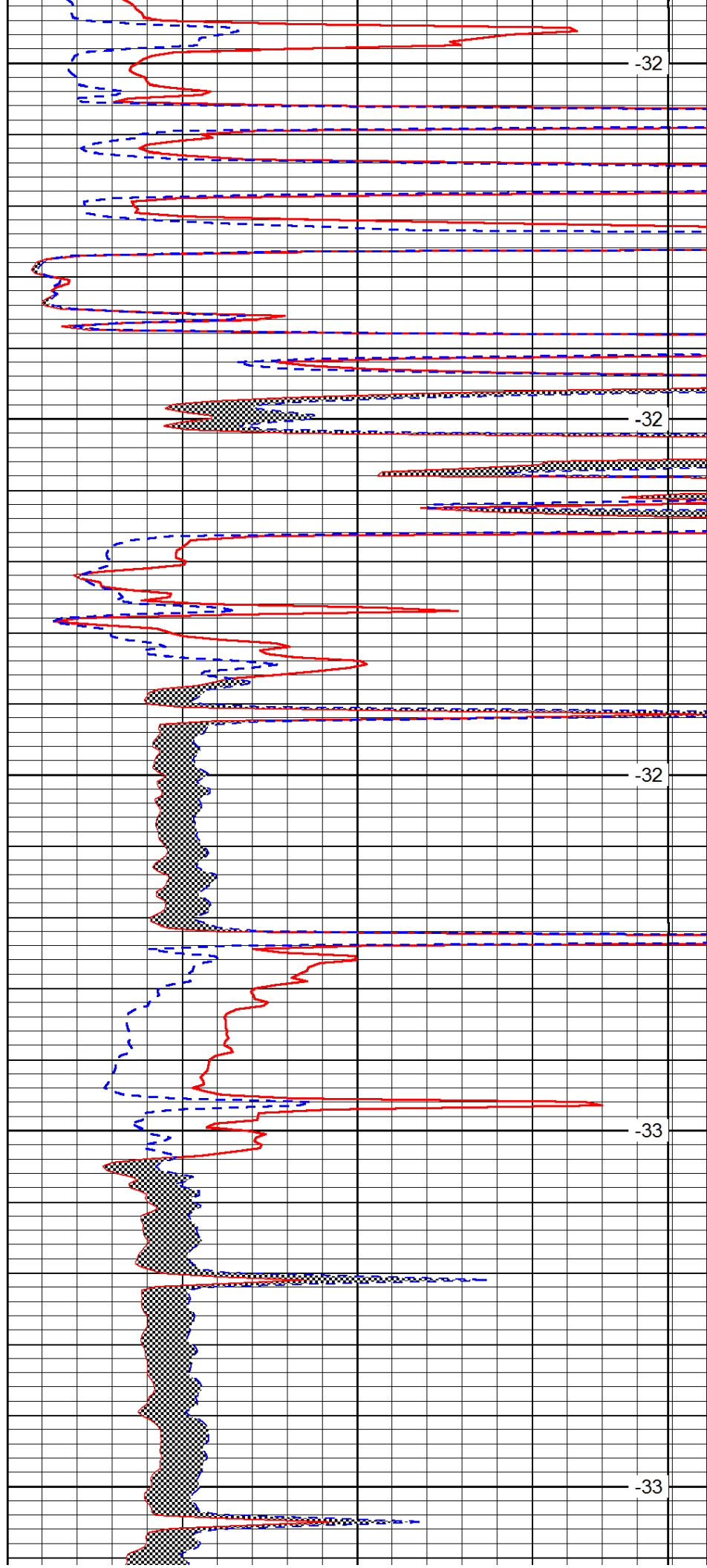
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3250

3300

3350

3400



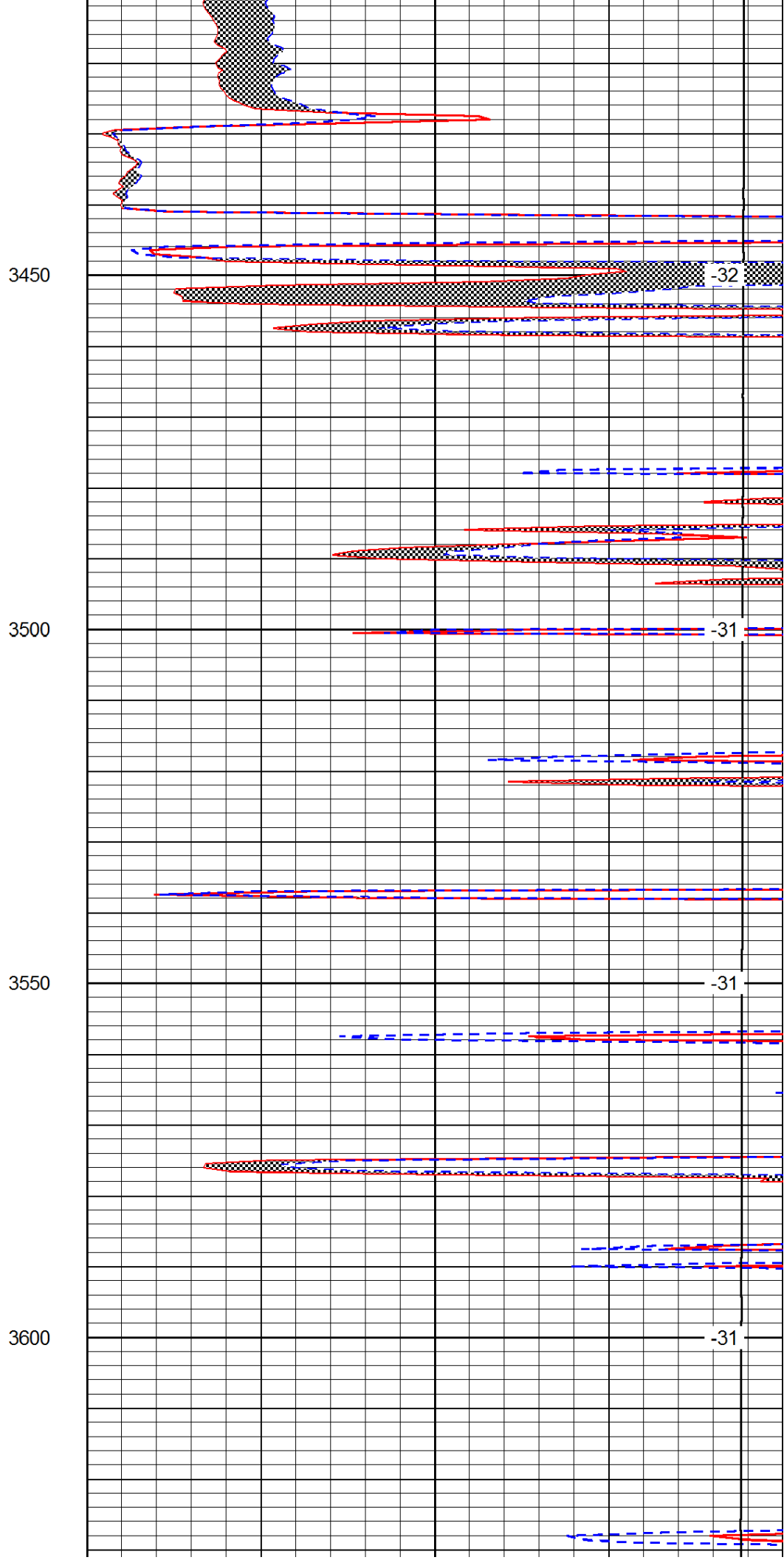
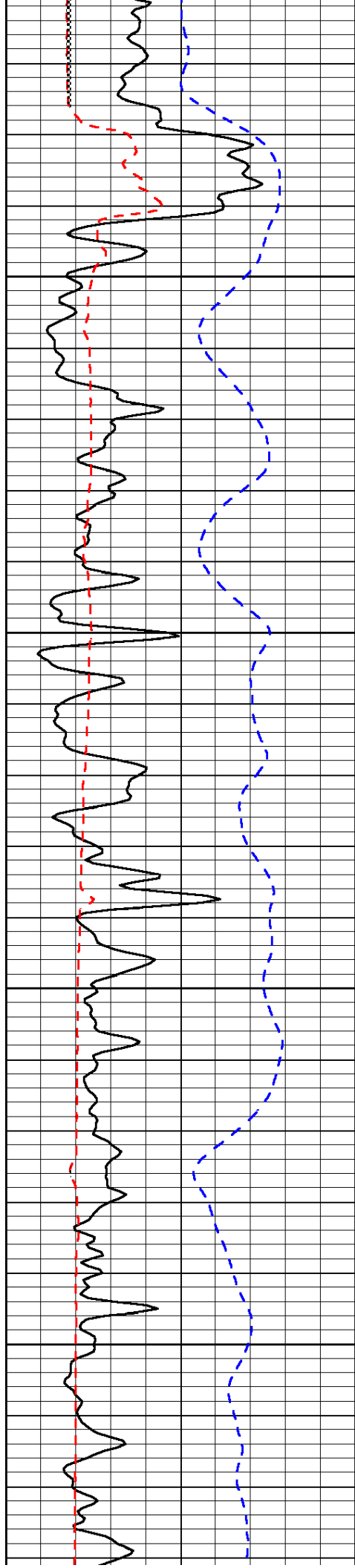
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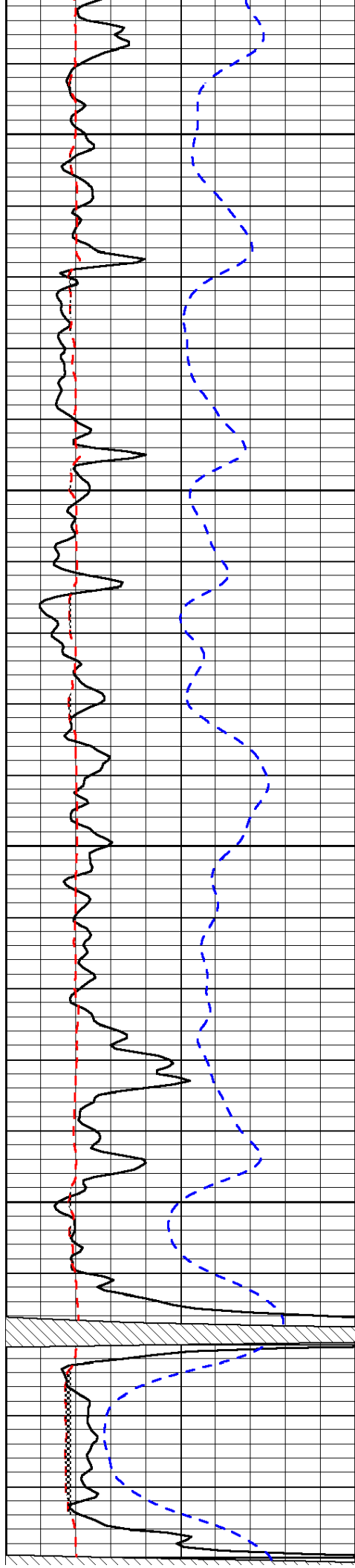
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-33

-33





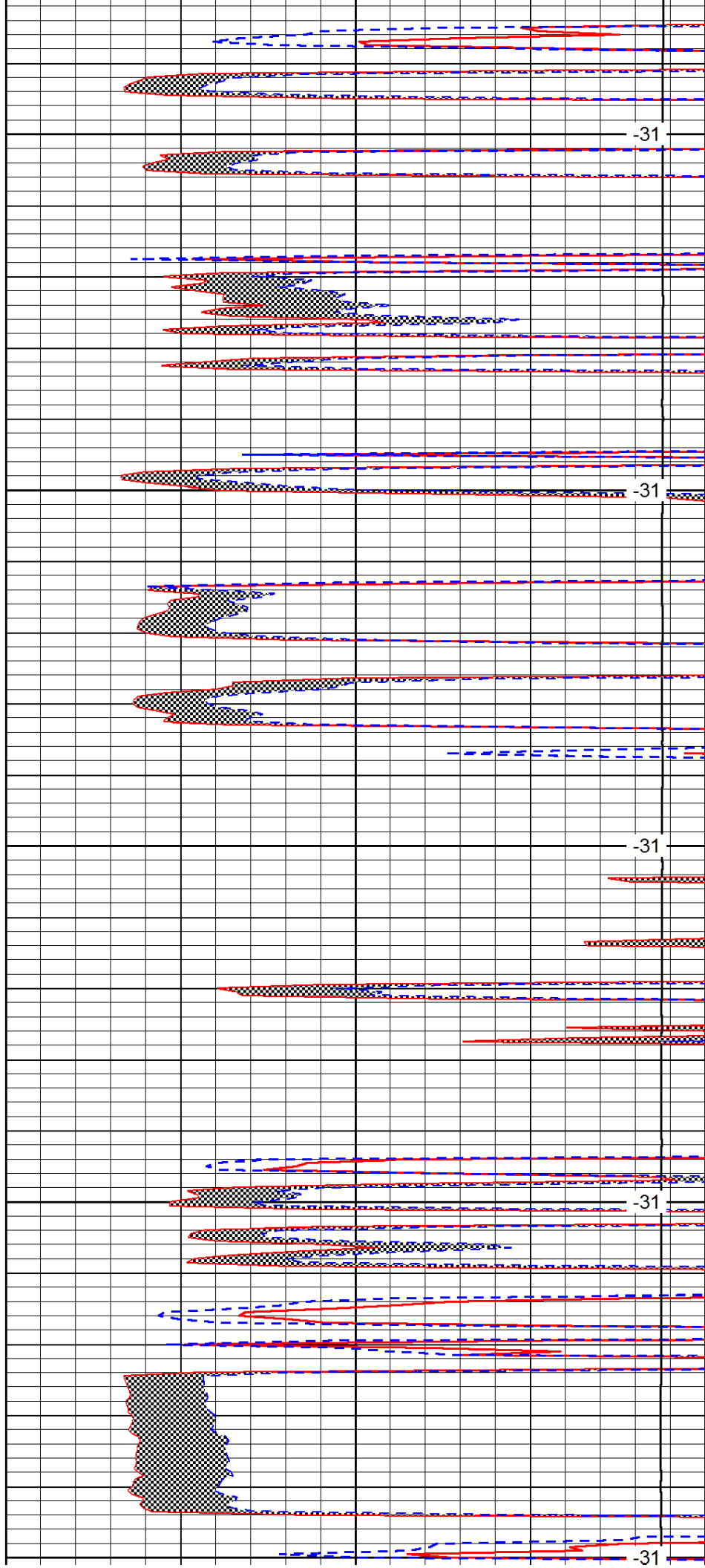
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3800

3850



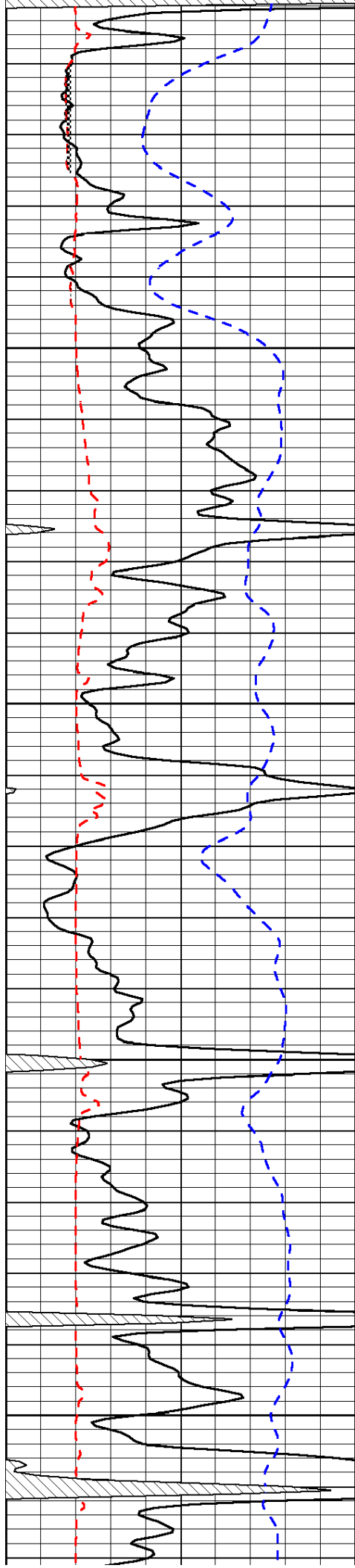
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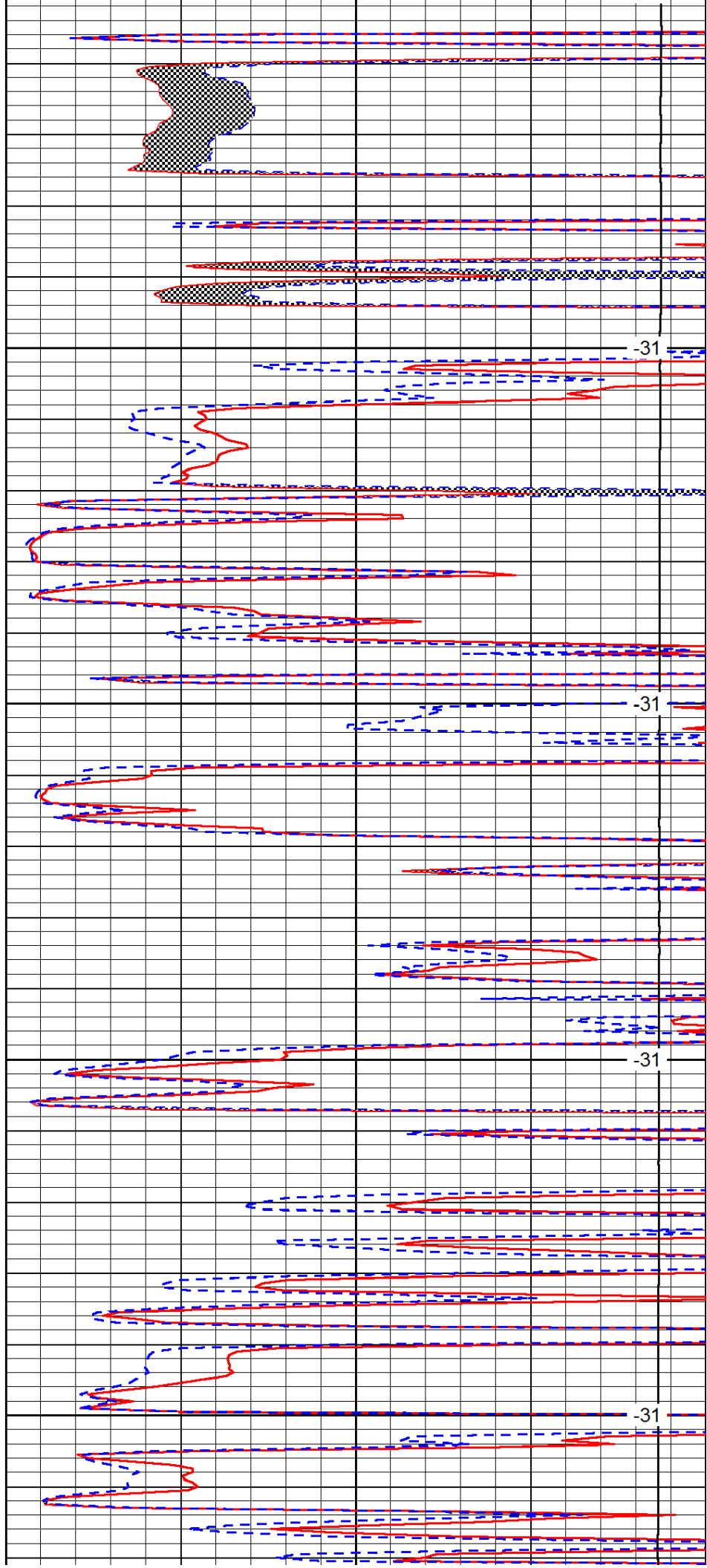


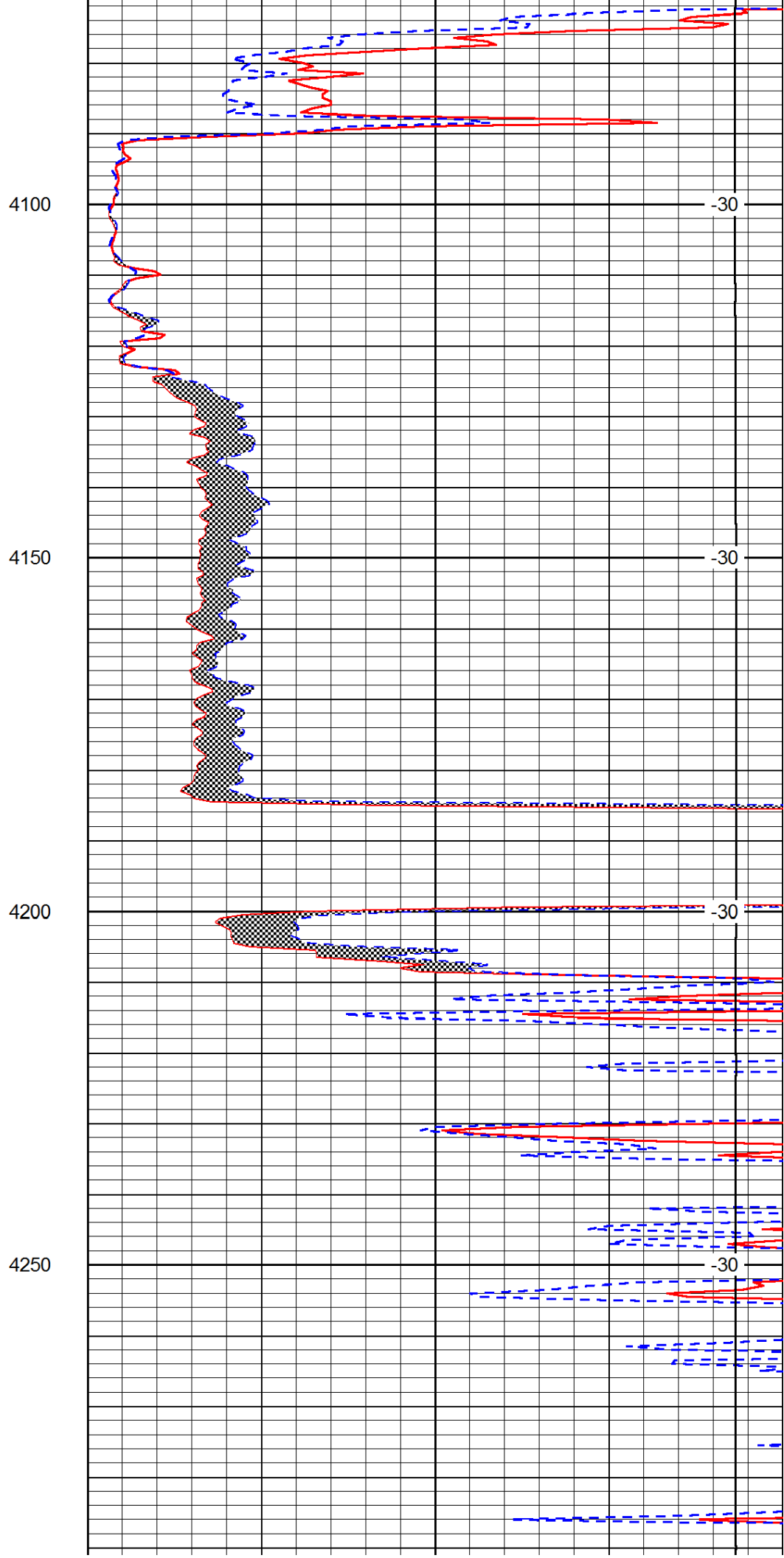
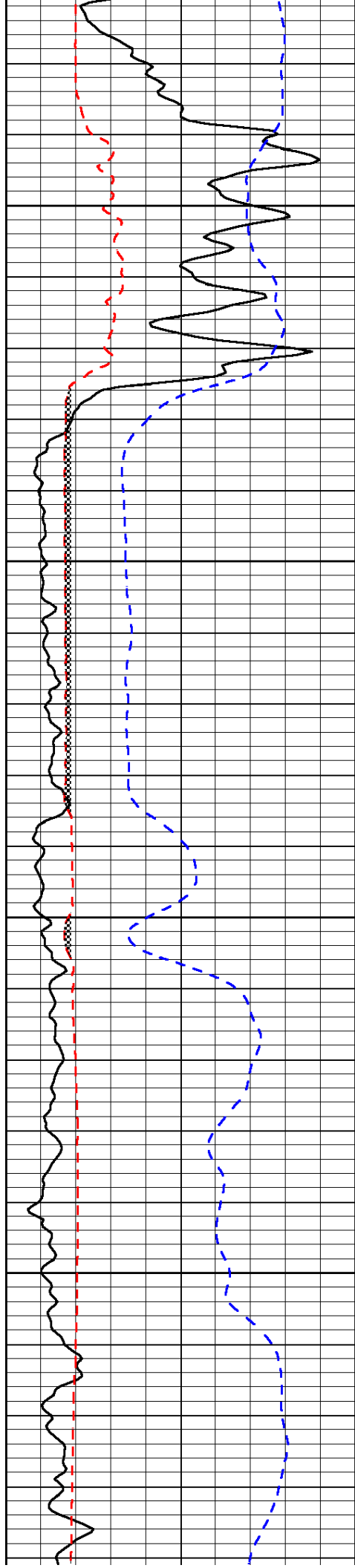
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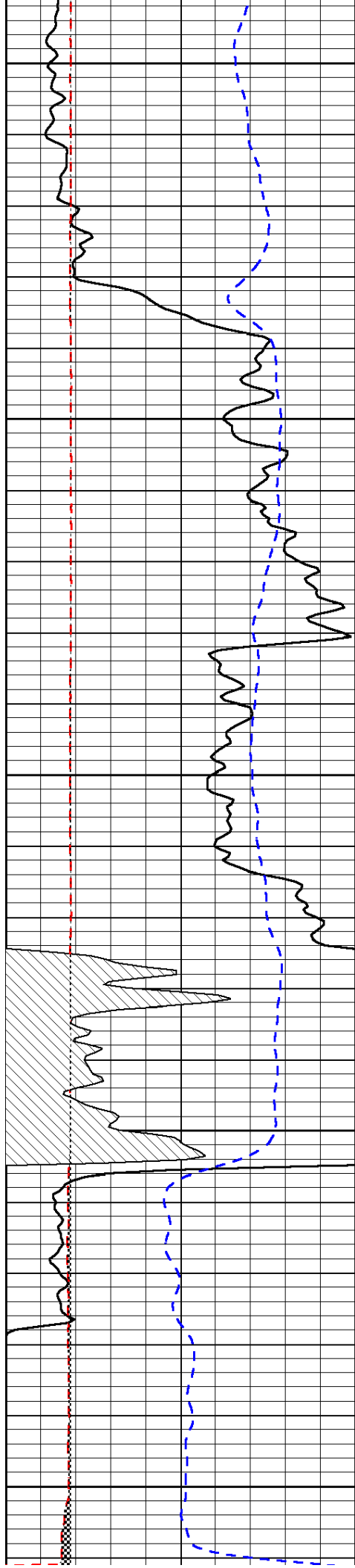
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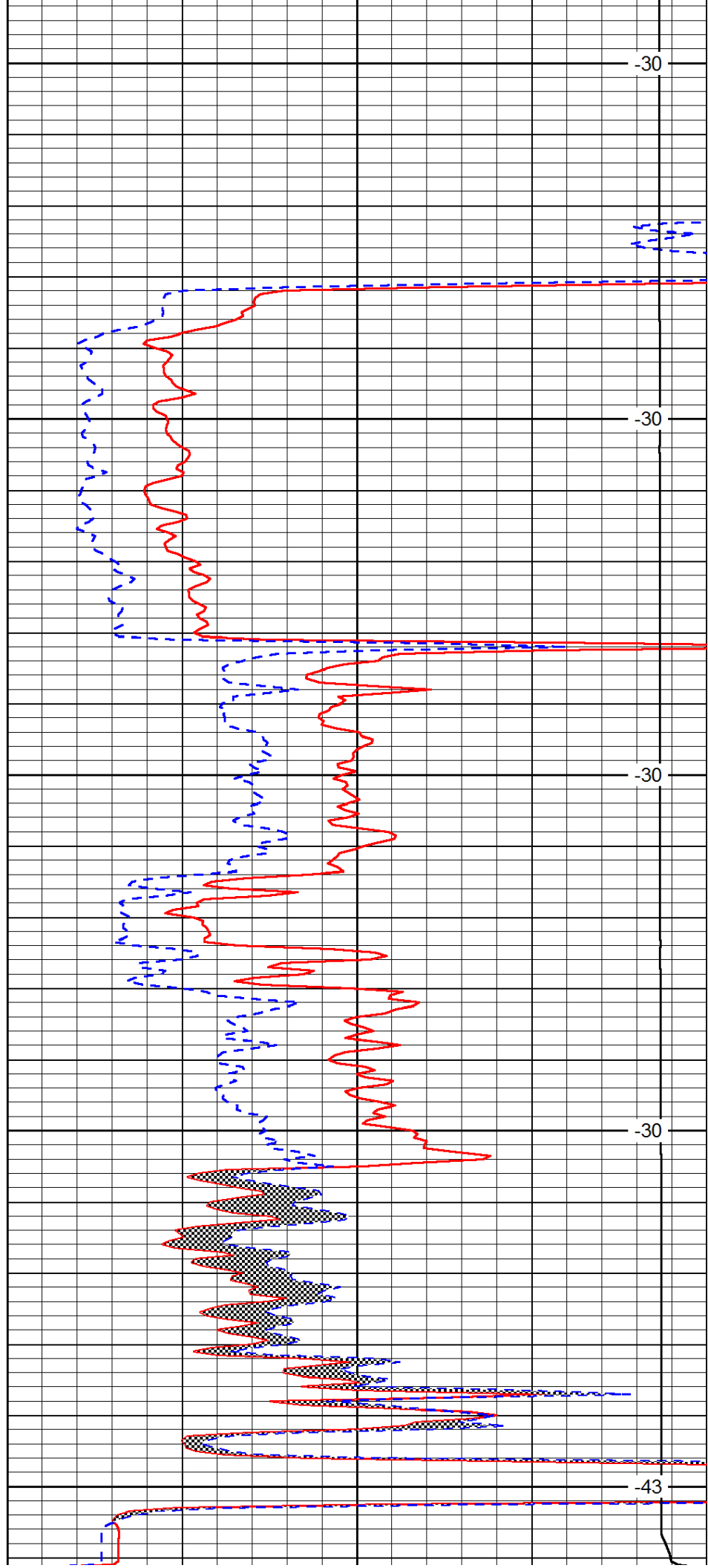
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4350

4400

4450

4500



-30

-30

-30

-30

-43

0	Gamma Ray	150
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-200	SP (mV)	0

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15000	Line Weight	0

LSPD
