



Pioneer Energy Services

Microresistivity Log

API No.

15-047-21639-00-00

Company **Toto Energy, LLC**

Well **Edward Land Investment #30-1**

Field **McCarty**

County **Edwards** State

Kansas

Location

**S2 SW SE
330' FSL / 1980' FEL**

Sec: **30**

Twp: **25S**

Rge: **17W**

Elevation

Permanent Datum **Ground Level** Elevation **2146**
Log Measured From **Kelly Bushing** 10 Ft. Above Perm. Datum
Drilling Measured From **Kelly Bushing**

K.B. **2156**
D.F. **2146**
G.L. **2146**

Date

10/10/2014

Run Number

Two

Depth Driller

4954

Depth Logger

4956

Bottom Logged Interval

4955

Top Log Interval

3700

Casing Driller

8.625 @ 357

Casing Logger

356

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

6300

Density / Viscosity

9.5 @ 49

pH / Fluid Loss

10.5 @ 11.2

Source of Sample

Flowline

Rm @ Meas. Temp

0.70 @ 68

Rmf @ Meas. Temp

0.53 @ 68

Rmc @ Meas. Temp

0.95 @ 68

Source of Rmf / Rmc

Charts

Rm @ BHT

0.38 @ 126

Operating Rig Time

4 Hours

Max Rec. Temp. F

126

Equipment Number

15

Location

Hays

Recorded By

R. Barnhart

Witnessed By

Sonia McDanel

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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.

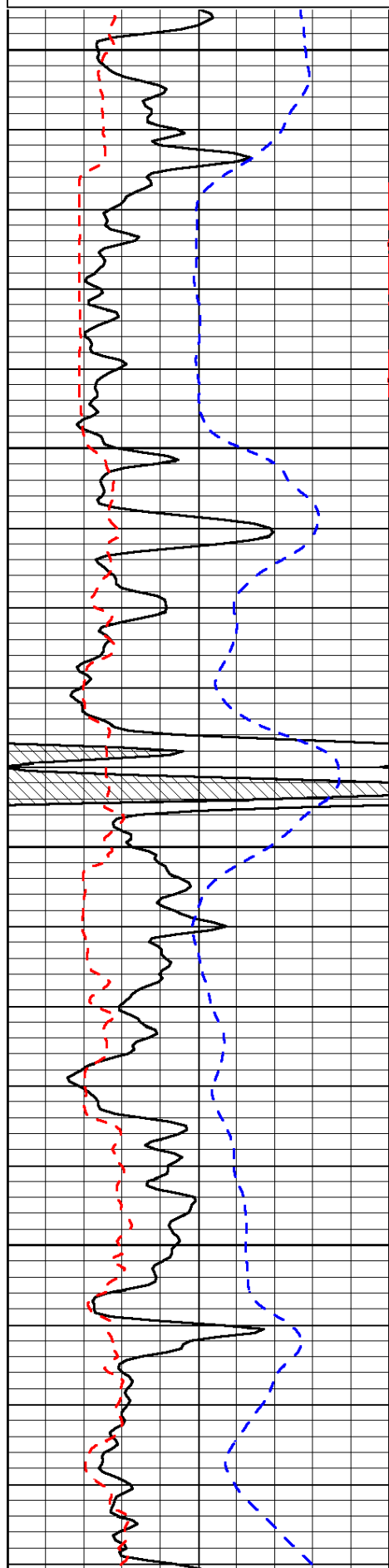
Comments

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

Lewis, KS:
6S on Blktop to R Rd., 1 1/2E, N into

Database File: toto_edwahd.db
Dataset Pathname: dil/ttmain
Presentation Format: micro
Dataset Creation: Fri Oct 10 04:16:31 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



3700

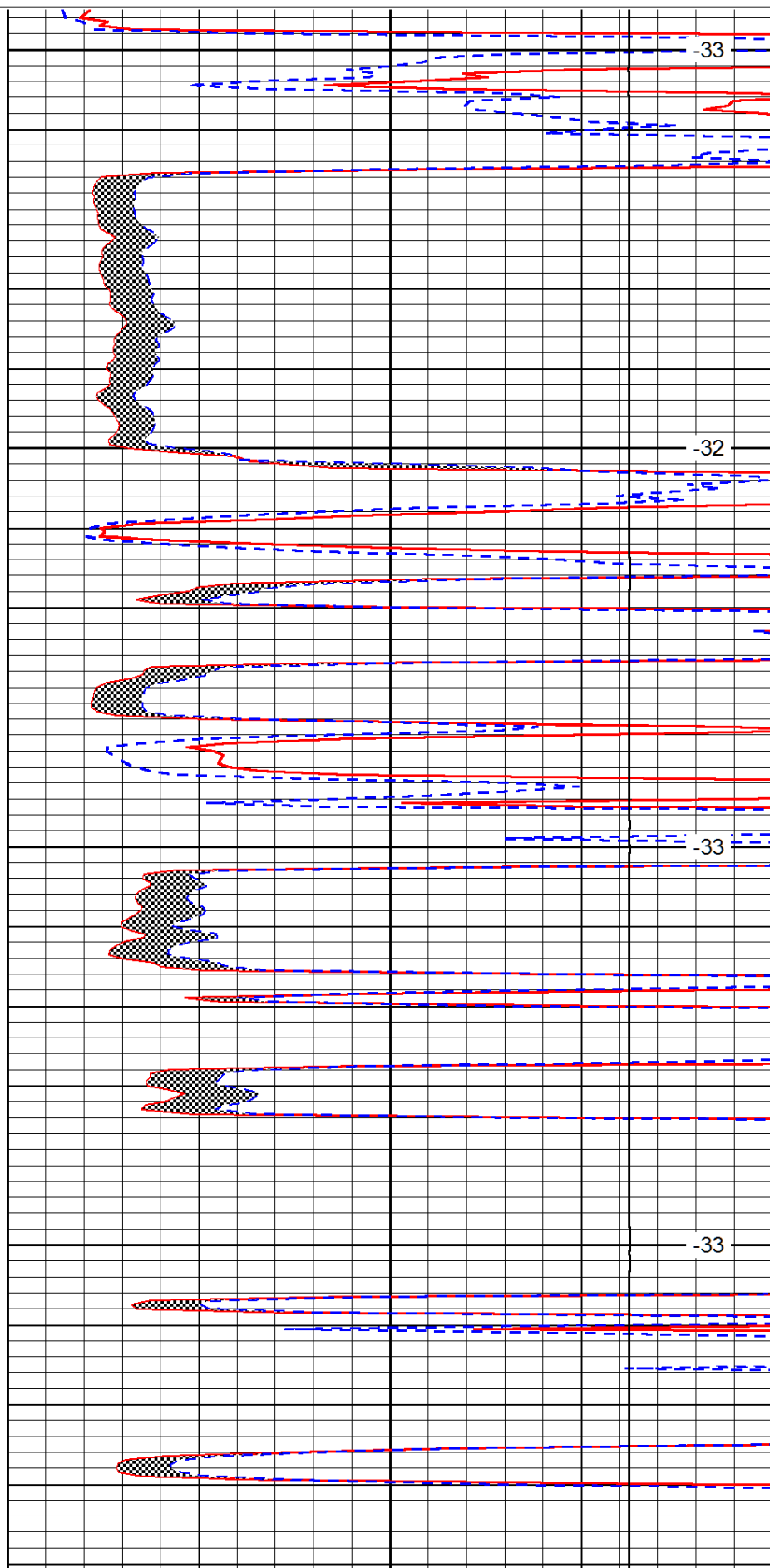
3750

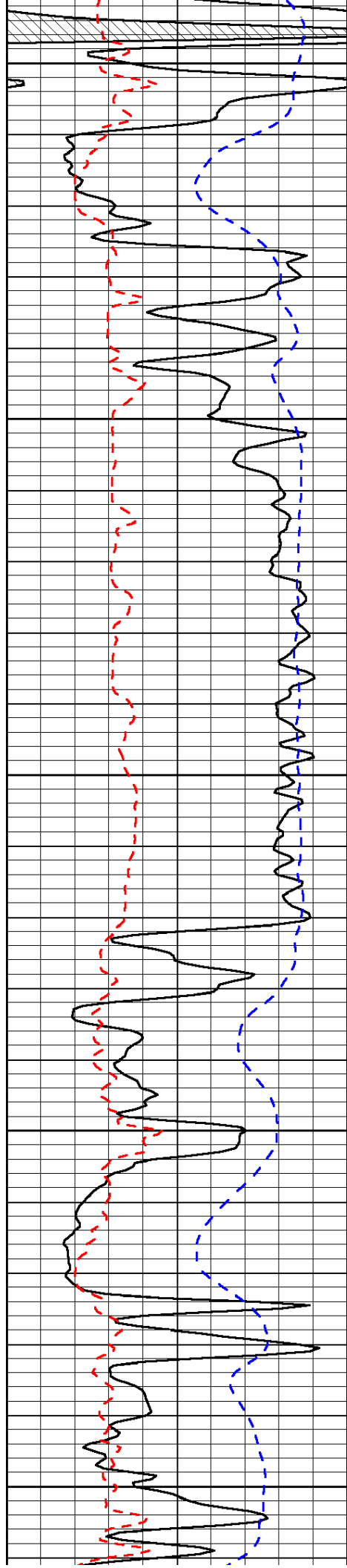
3800

3850

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

LSPD





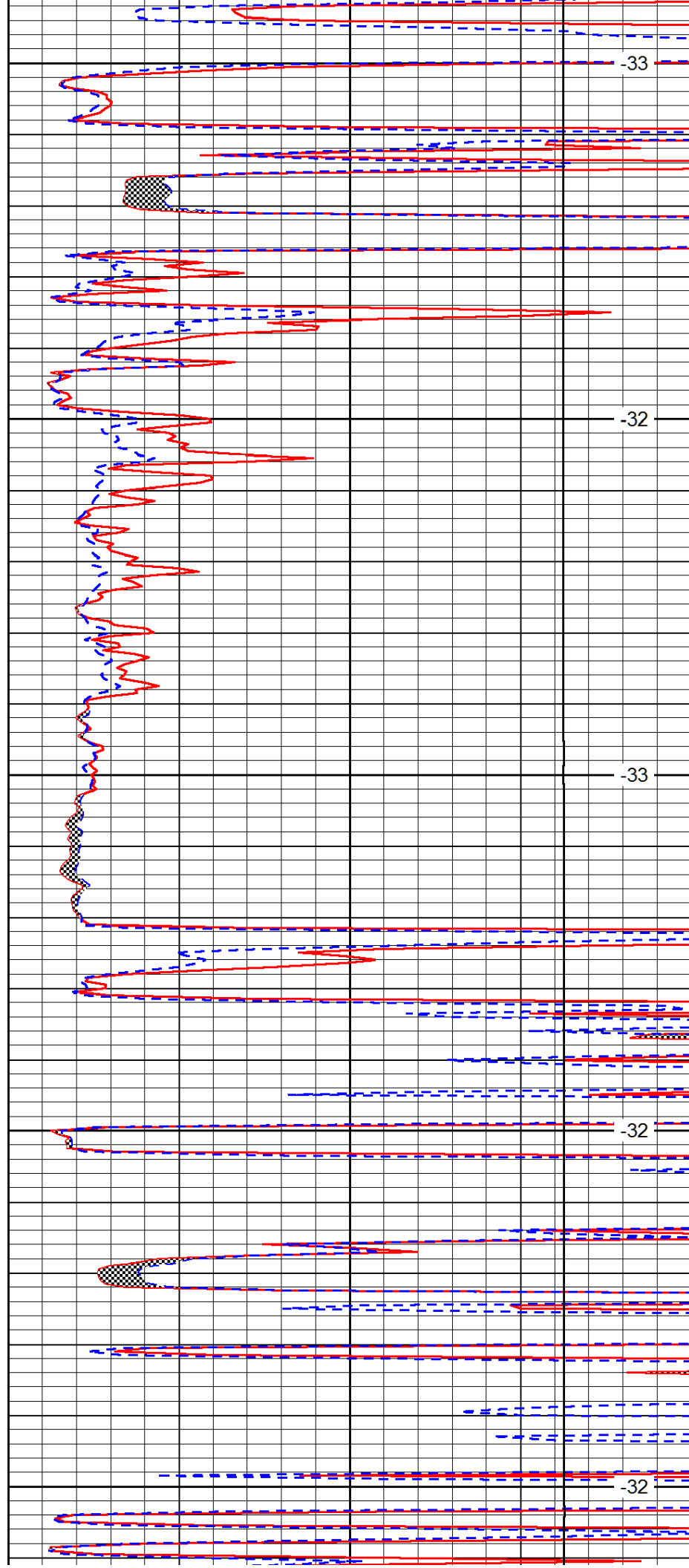
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3950

4000

4050

4100



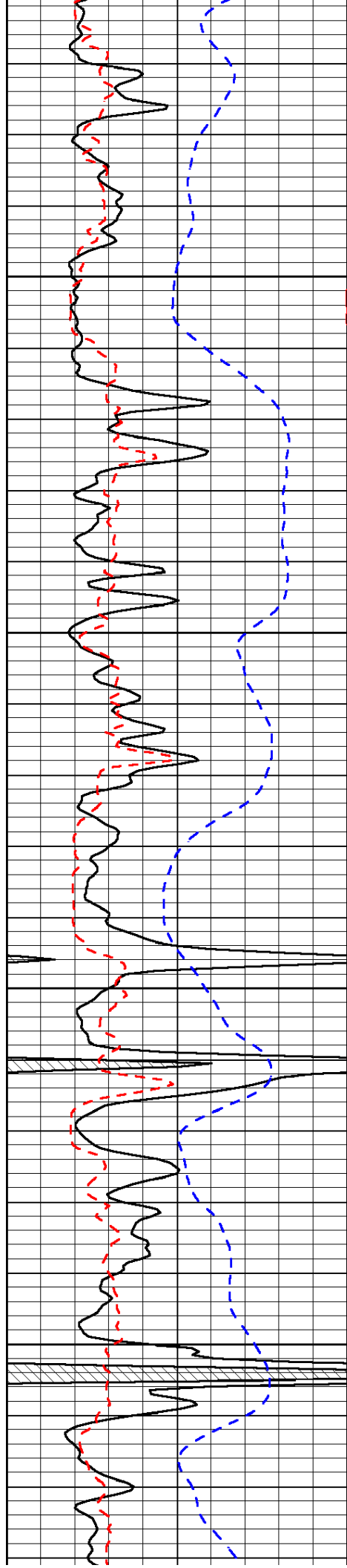
-33

-32

-33

-32

-32

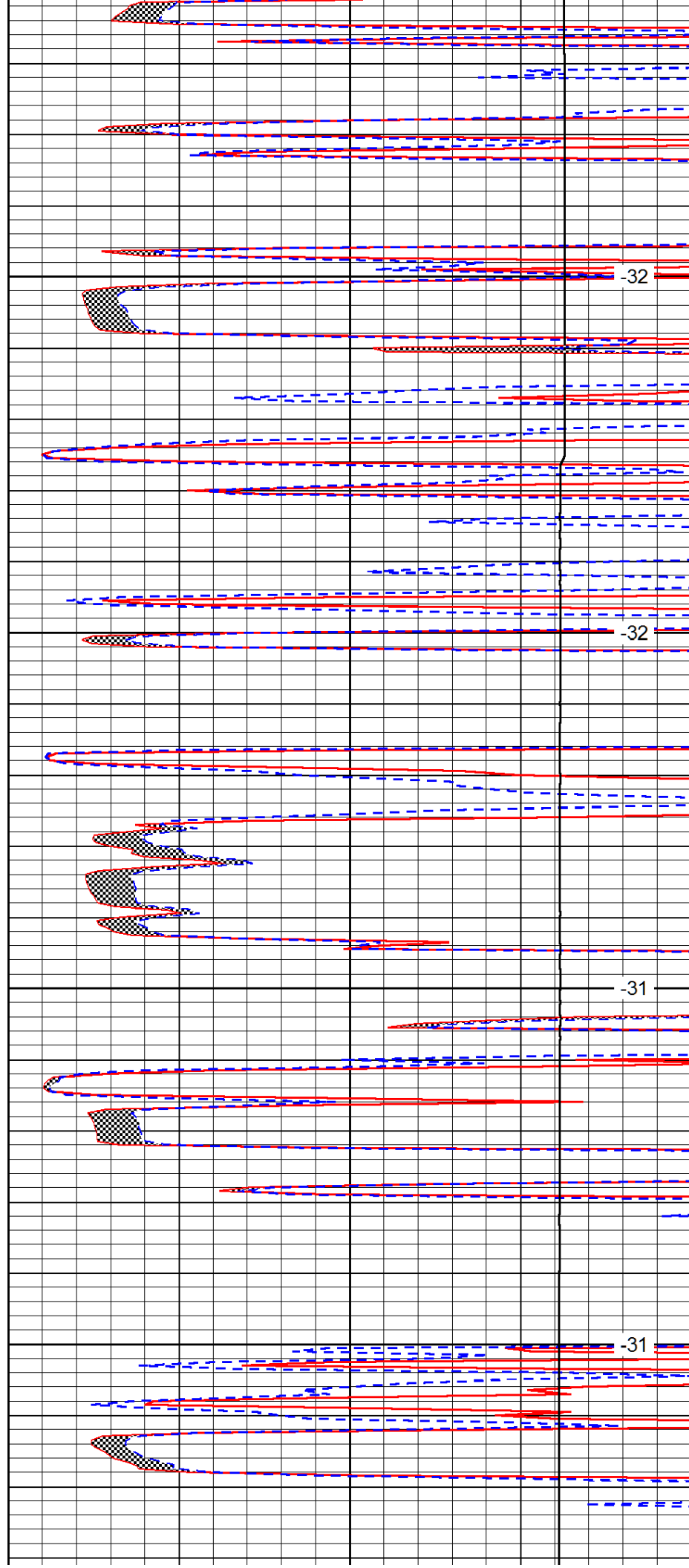


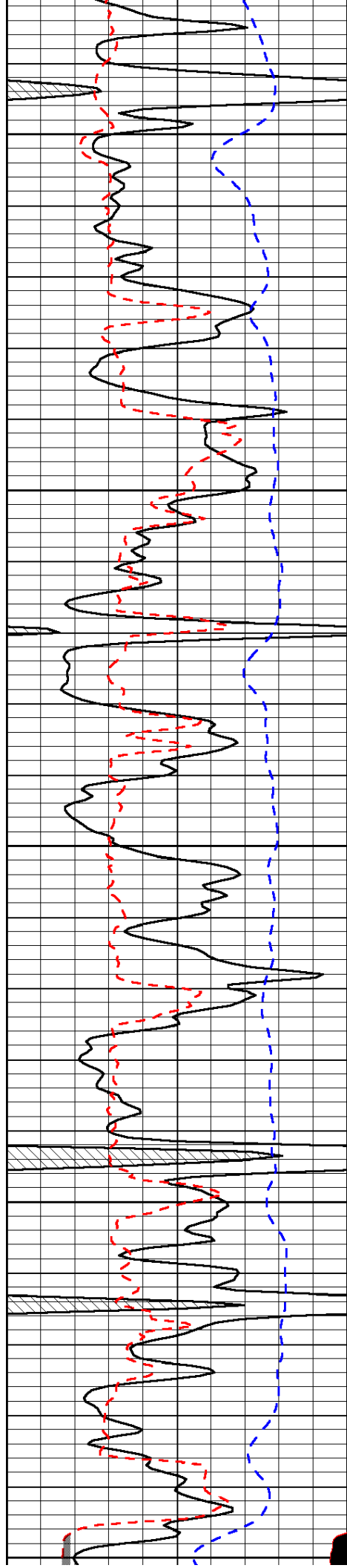
4150

4200

4250

4300





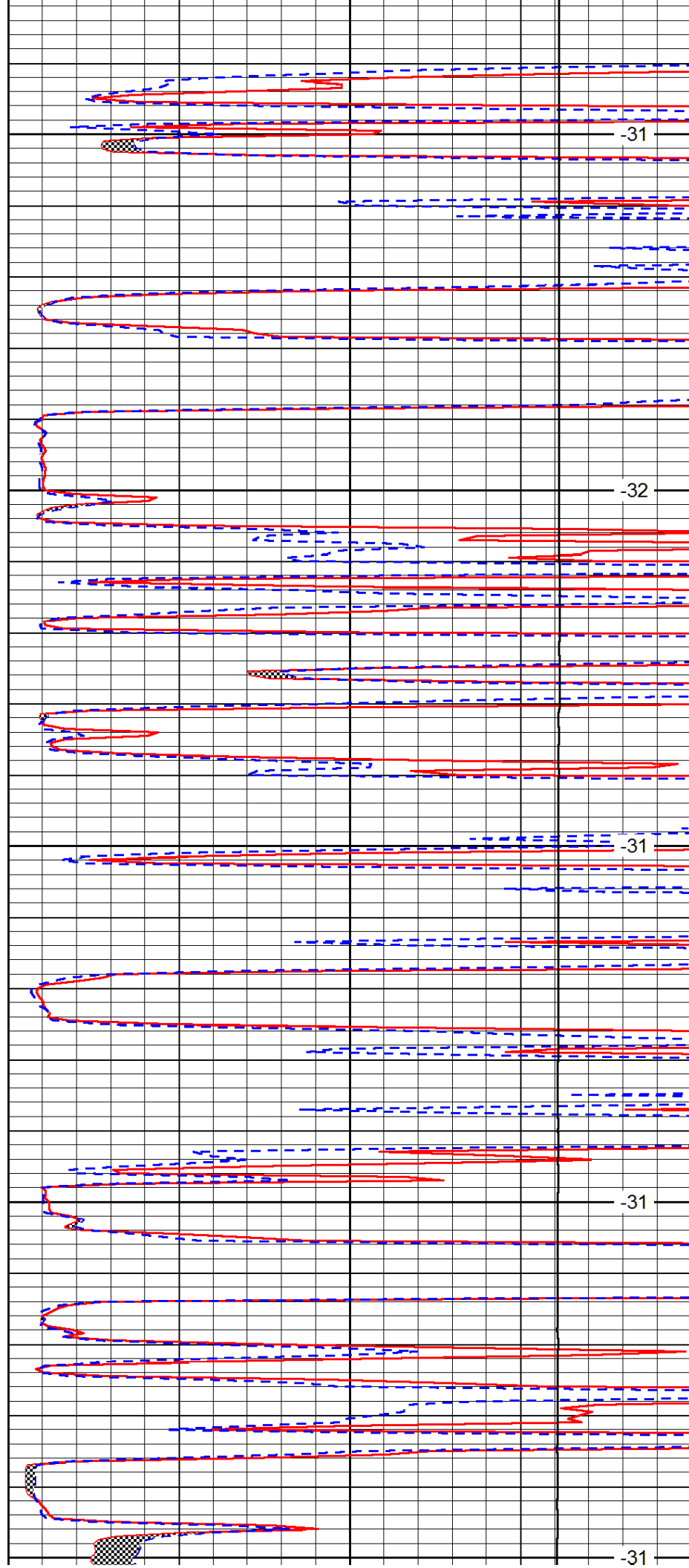
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4400

4450

4500

4550



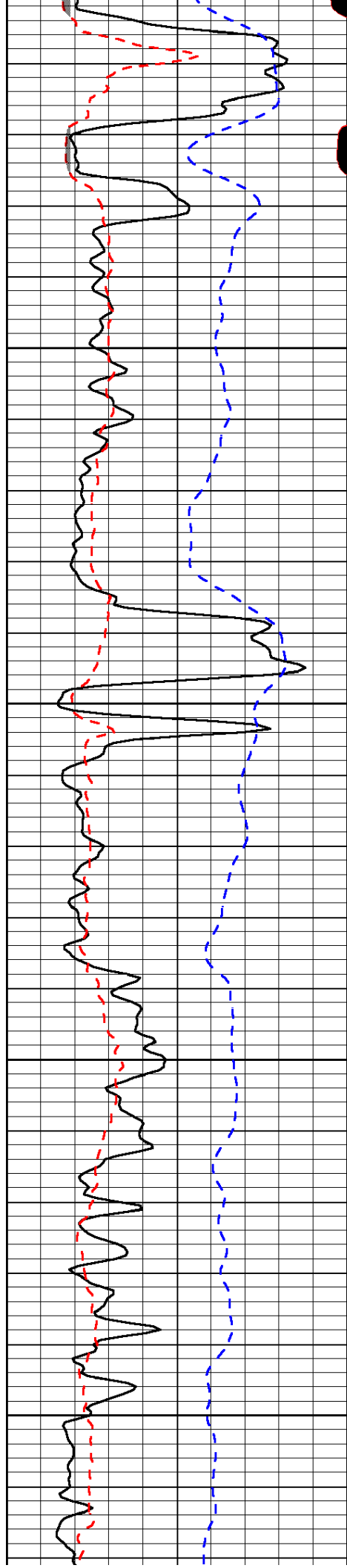
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-32

-31

-31

-31

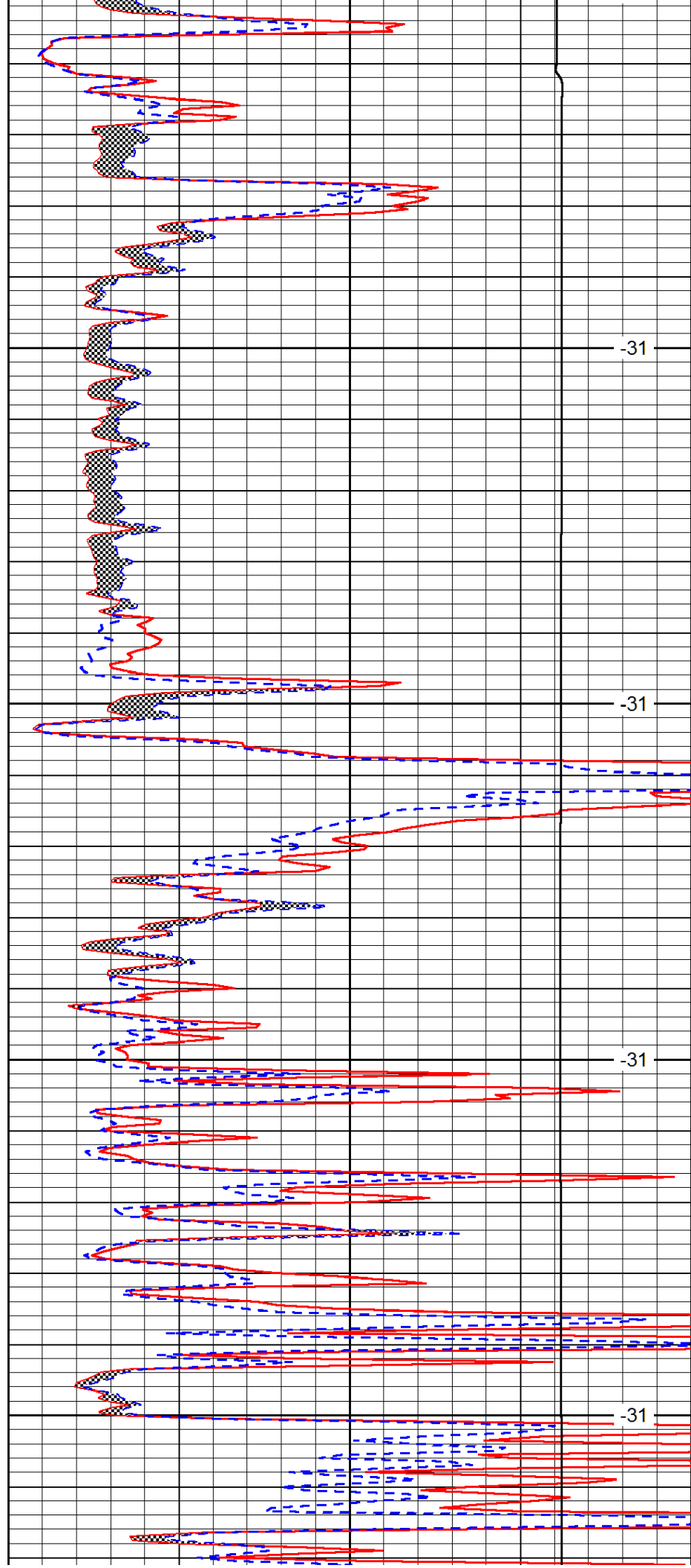


4600

4650

4700

4750

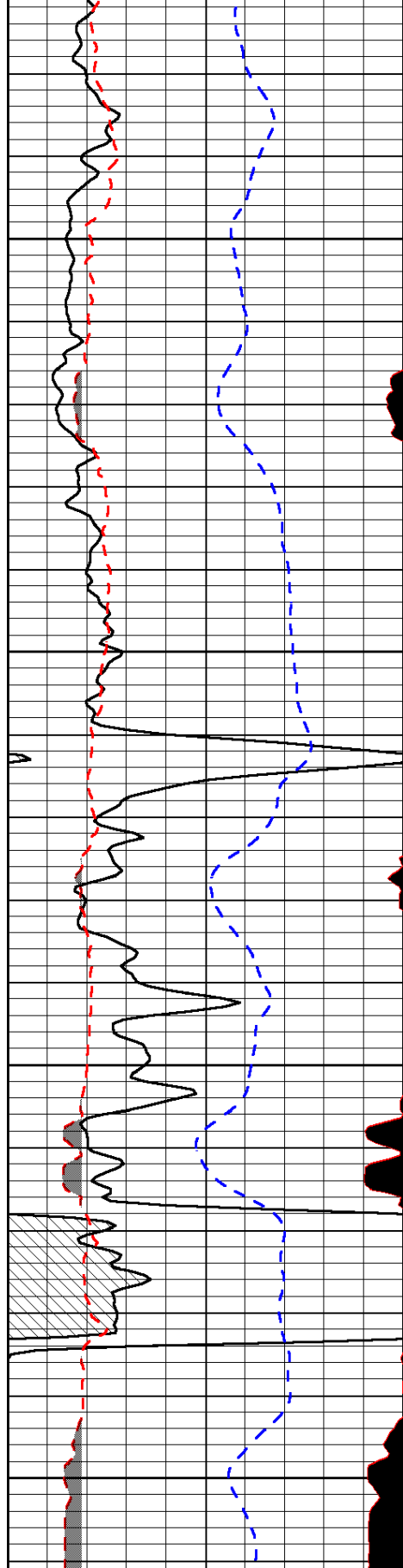


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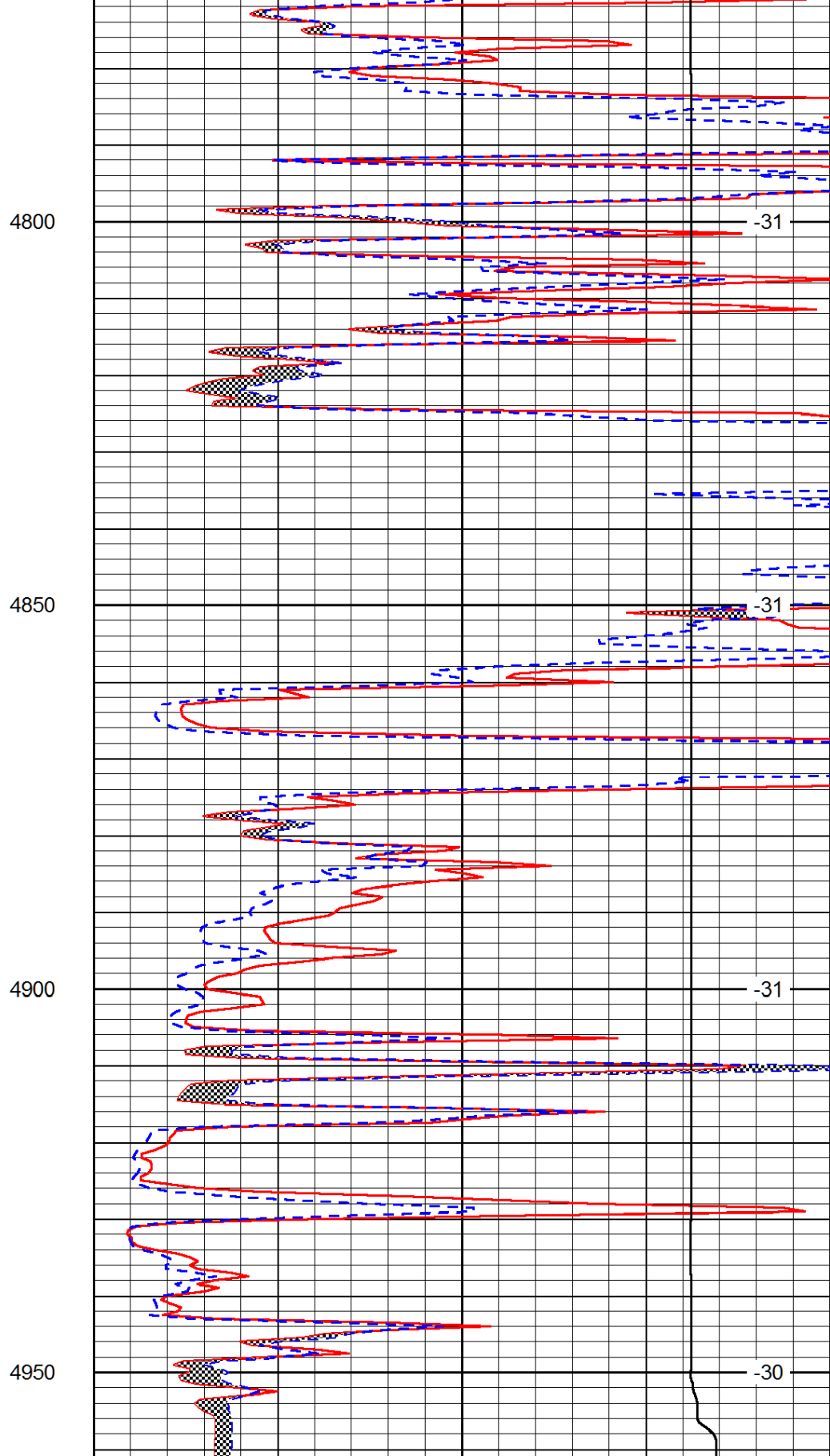
-31

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