



Microresistivity Log

Pioneer Energy Services

API No.

15-065-24051-00-00

Company H & C Oil Operating, Inc.

Well Delbert #19-1

Field Wildcat

County Graham State

Kansas

Location

SE SW NW NW
1150' FNL / 475' FWL

Other Services
CNL / CDL
DIL

Sec: 19 Twp: 10S Rge: 25W

Permanent Datum

Ground Level

Elevation 2536

Log Measured From

Kelly Bushing

7 Ft. Above Perm. Datum

Drilling Measured From

Kelly Bushing

Elevation 2543
D.F. 2536
G.L. 2536

Date

8/6/2014

Run Number

Two

Depth Driller

4080

Depth Logger

4080

Bottom Logged Interval

4079

Top Log Interval

3450

Casing Driller

8.625 @ 265

Casing Logger

260

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

900

Density / Viscosity

9.5 65

pH / Fluid Loss

10.0 8.4

Source of Sample

Flowline

Rm @ Meas. Temp

0.55 @ 90

Rmf @ Meas. Temp

0.41 @ 90

Rmc @ Meas. Temp

0.74 @ 90

Source of Rmf / Rmc

Charts

Rm @ BHT

0.42 @ 117

Operating Rig Time

4 Hours

Max Rec. Temp. F

117

Equipment Number

91

Location

Hays

Recorded By

R. Barnhart

Witnessed By

Anthony Luna

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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.

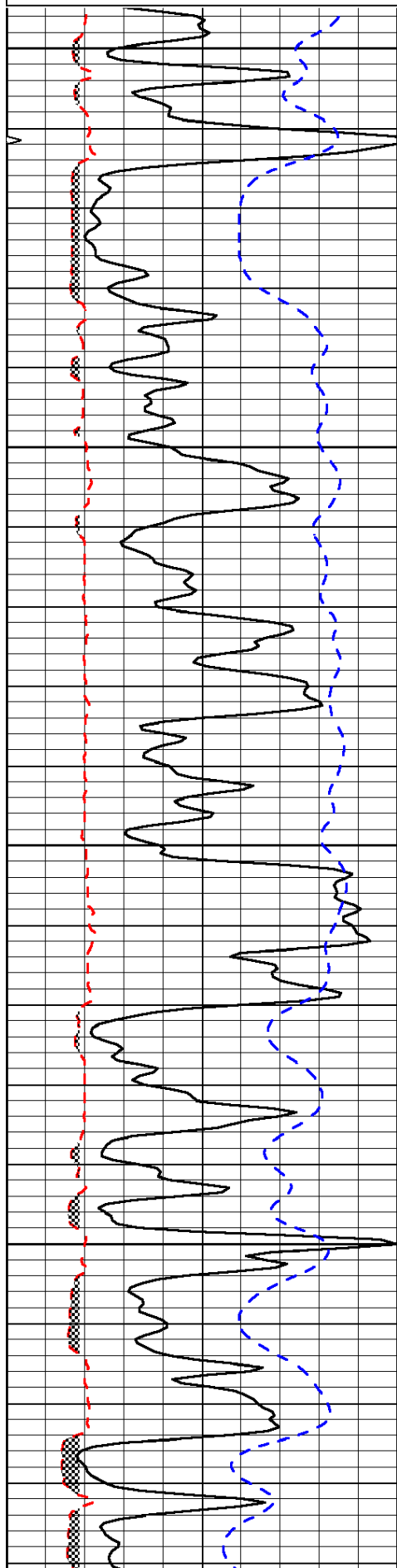
Comments

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

Collyer, KS:
Collyer Exit: N to Old 40, 5W to 78 Rd., 8N to 130 Rd., 1E, S into

Database File: c:\warrior\data\h&c_delbert #19-1\h&c_hd.db
Dataset Pathname: dil/hcmain
Presentation Format: micro
Dataset Creation: Wed Aug 06 21:08:29 2014
Charted by: Depth in Feet scaled 1:240

Charted by: Depth in Feet scaled 1:2.15		
0	Gamma Ray	150
6	Micro Log Caliper (GAPI)	16
-200	SP (mV)	0

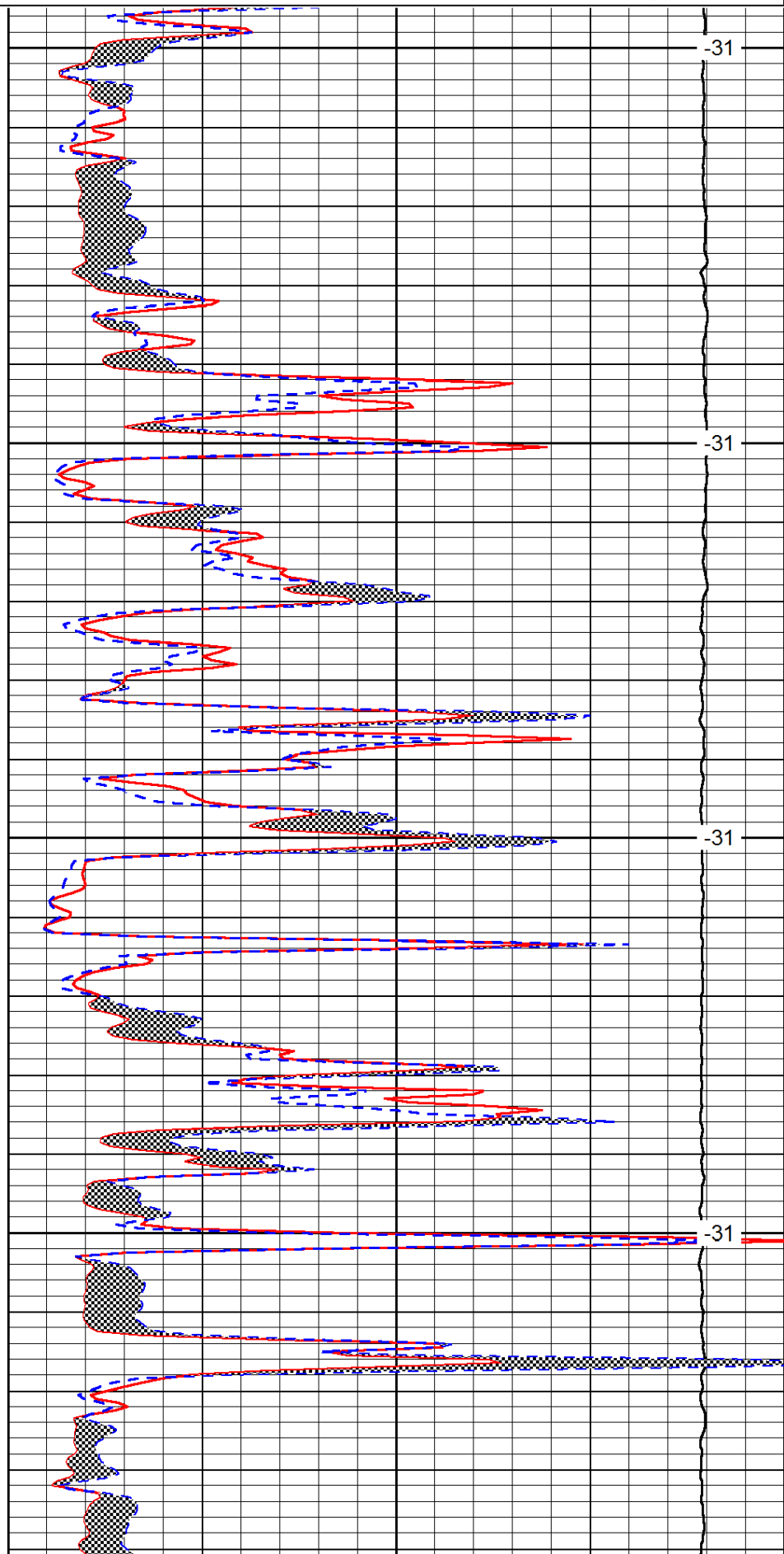


3450

3500

3550

3600



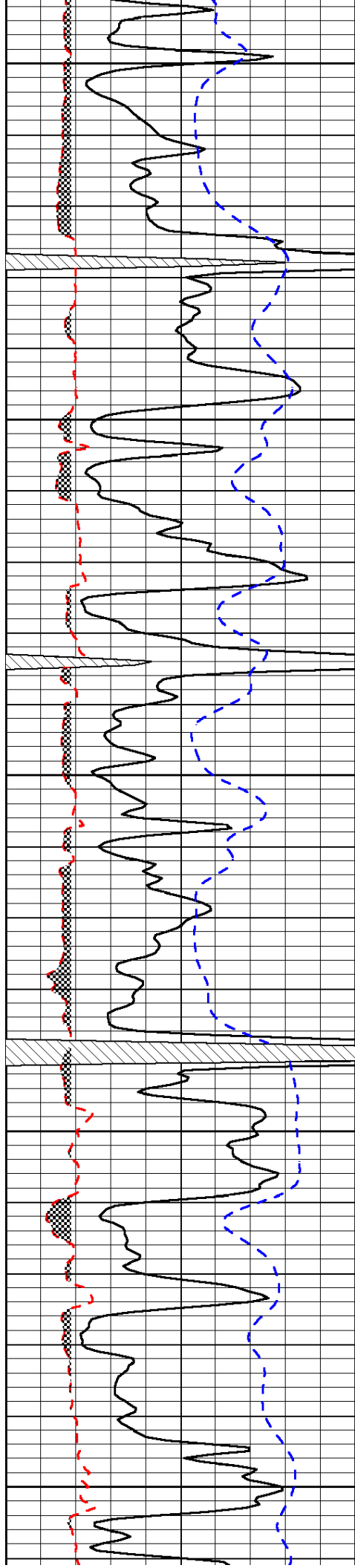
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LSPD



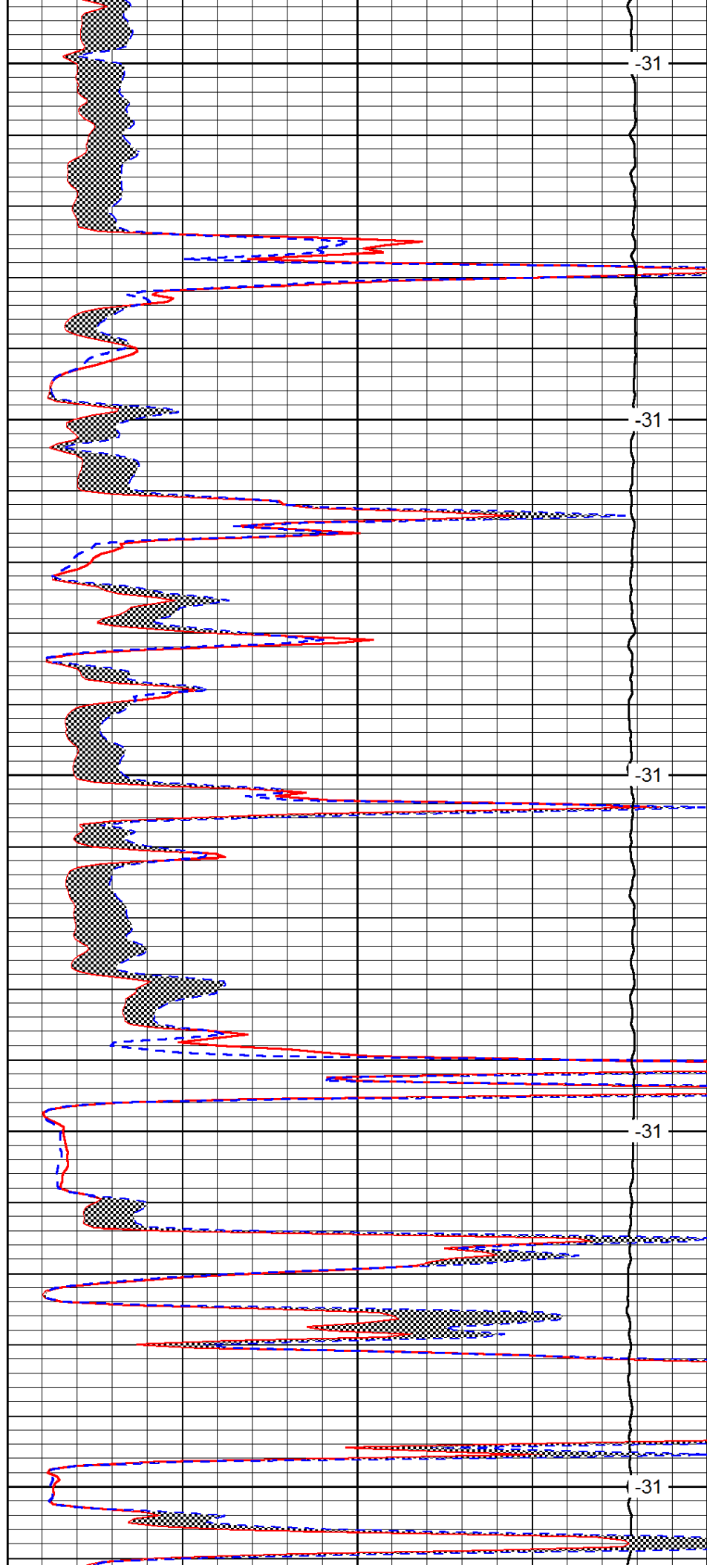
3650

3700

3750

3800

3850



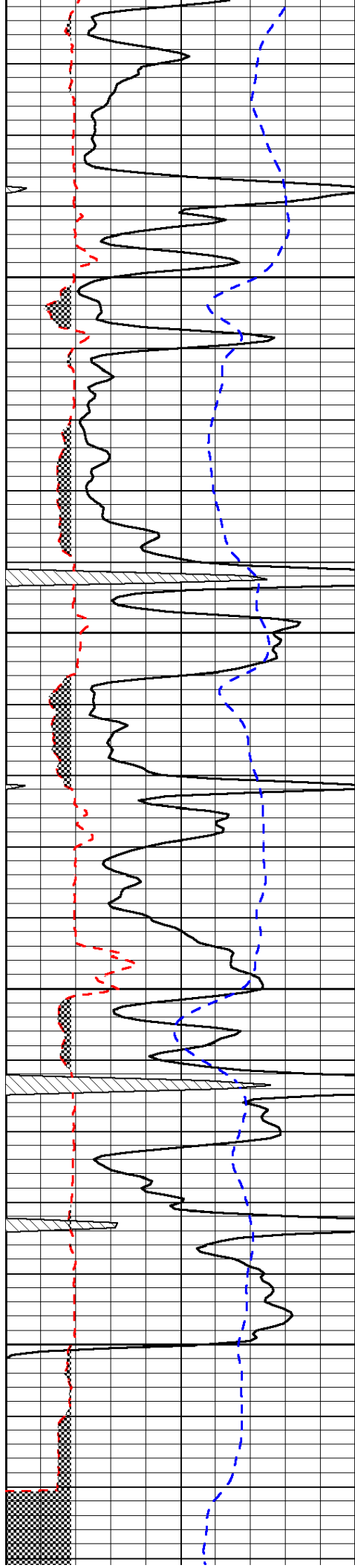
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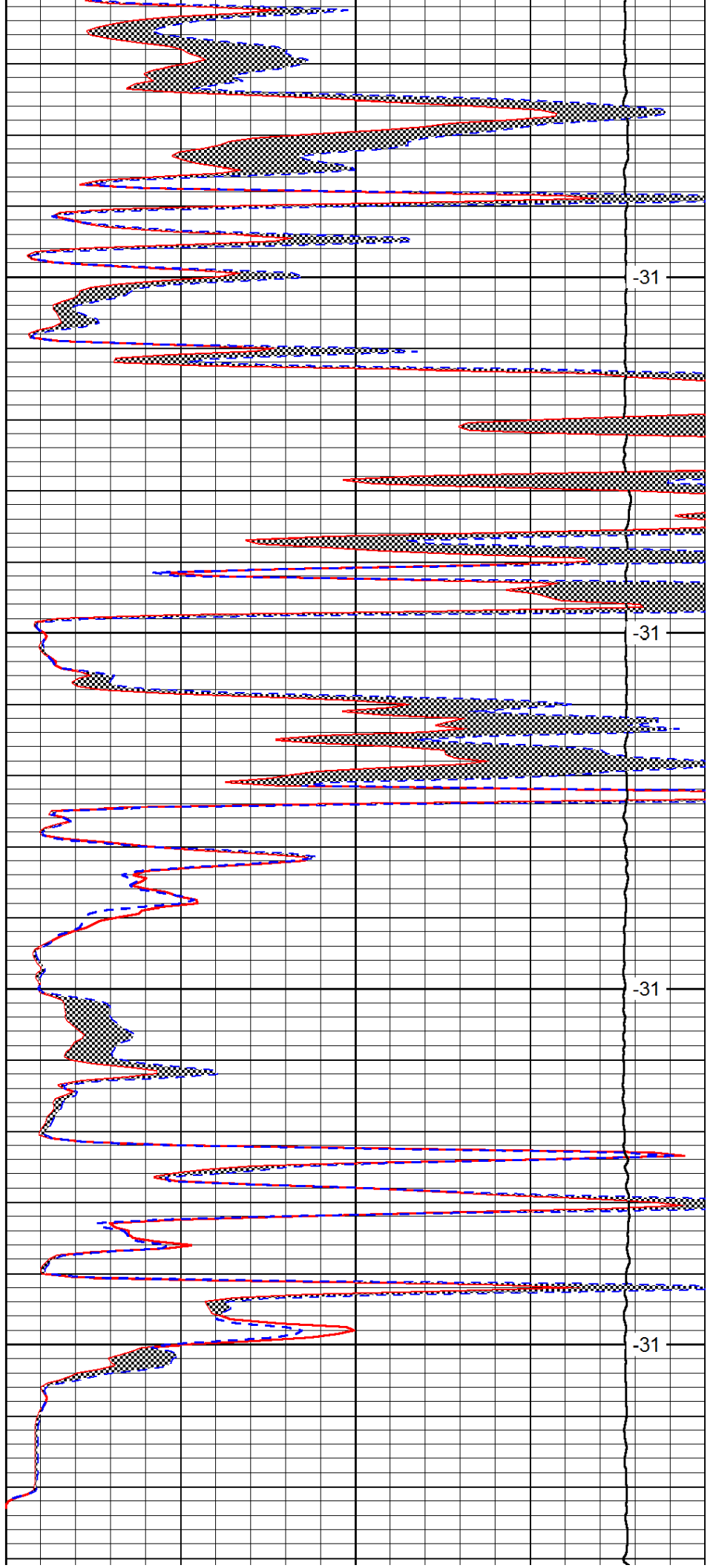


3900

3950

4000

4050



-31

-31

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-31

