



Microresistivity Log

Pioneer Energy Services

API No.

15-179-21,355-00-00

Company Culbreath Oil & Gas Company, Inc.

Well Mader #3-1

Field

County Sheridan State

Kansas

Location

990' FNL & 1,980' FWL

Sec: 2 Twp: 10S Rge: 20W

Permanent Datum Ground Level Elevation 2574
Log Measured From Kelly Bushing 7 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Other Services
CNL/CDL
DIL

Elevation
K.B. 2581
D.F. 2574
G.L. 2574

Date

4/17/2014

Run Number

Two

Depth Driller

4125

Depth Logger

4125

Bottom Logged Interval

4124

Top Log Interval

3500

Casing Driller

8.625 @ 261

Casing Logger

261

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

3800

Density / Viscosity

9.2 52

pH / Fluid Loss

10.5 7.2

Source of Sample

Flowline

Rm @ Meas. Temp

.70 @ 58

Rmf @ Meas. Temp

.53 @ 58

Rmc @ Meas. Temp

.95 @ 58

Source of Rmf / Rmc

Charts

Rm @ BHT

.35 @ 117

Operating Rig Time

4 Hours

Max Rec. Temp. F

117

Equipment Number

108

Location

Hays

Recorded By

J. Long

Witnessed By

Steve Murphy

Anthony Lune

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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.

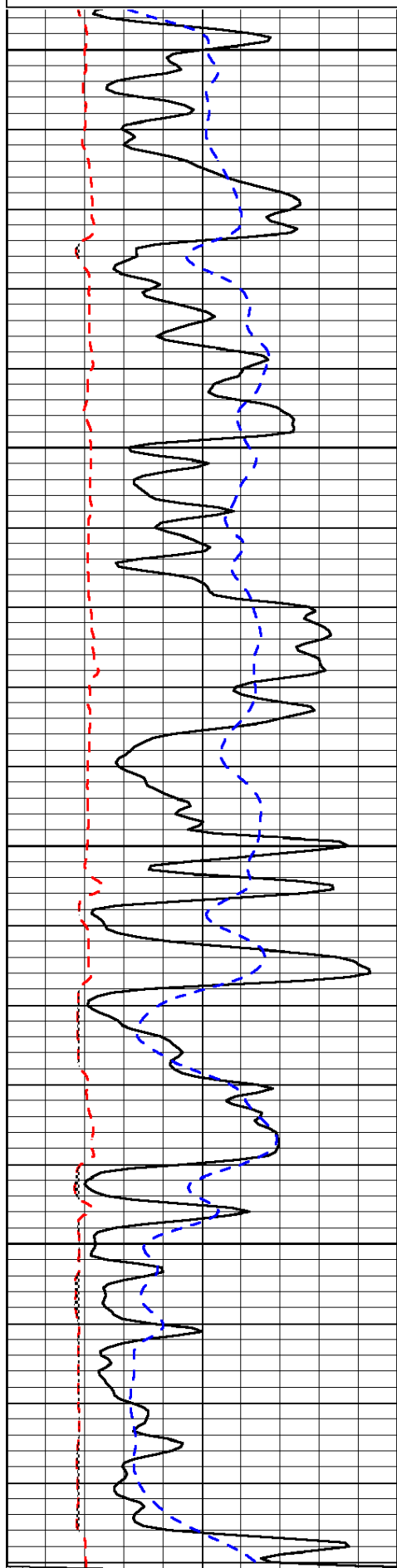
Comments

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

Collyer, West to 78 Road, 11 North to Road 100, 1/2 East, 1/8 South, West Into

Database File: c:\warrior\data\culbreath_mader #3-1\culbreath_mader_3-1hd.db
Dataset Pathname: dil\culbstck
Presentation Format: micro
Dataset Creation: Thu Apr 17 03:01:01 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



3500

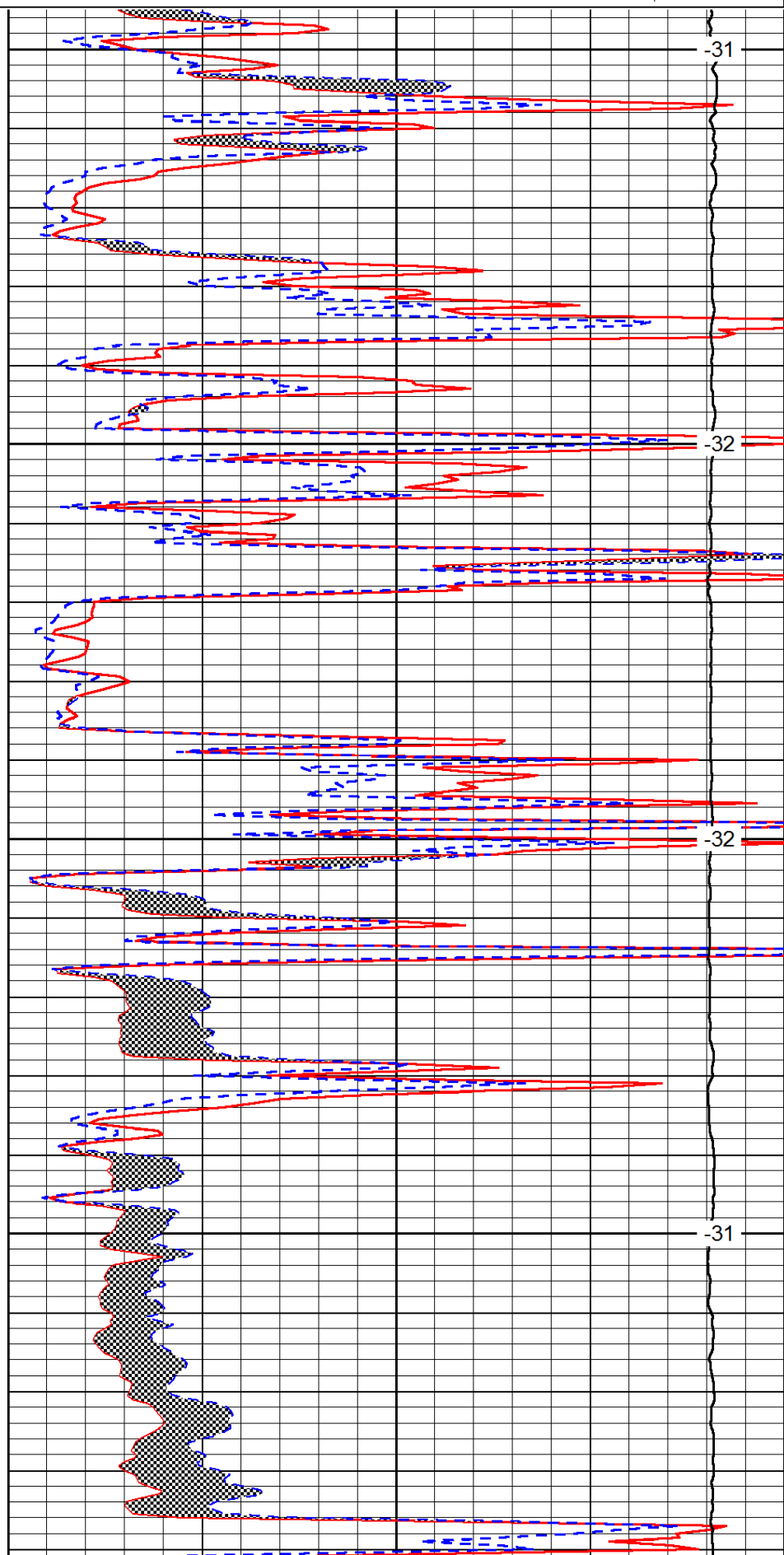
3550

3600

3650

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

LSPD

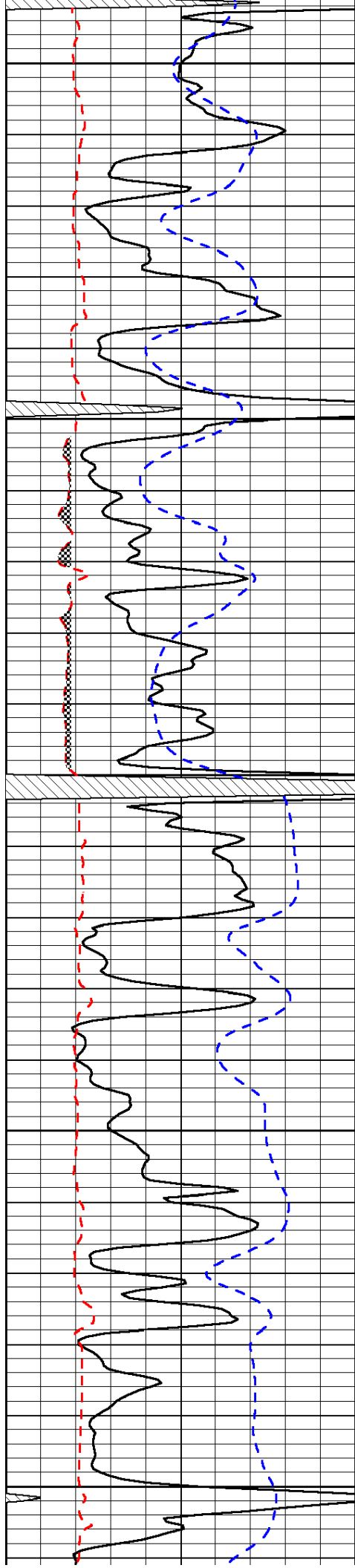


-31

-32

-32

-31



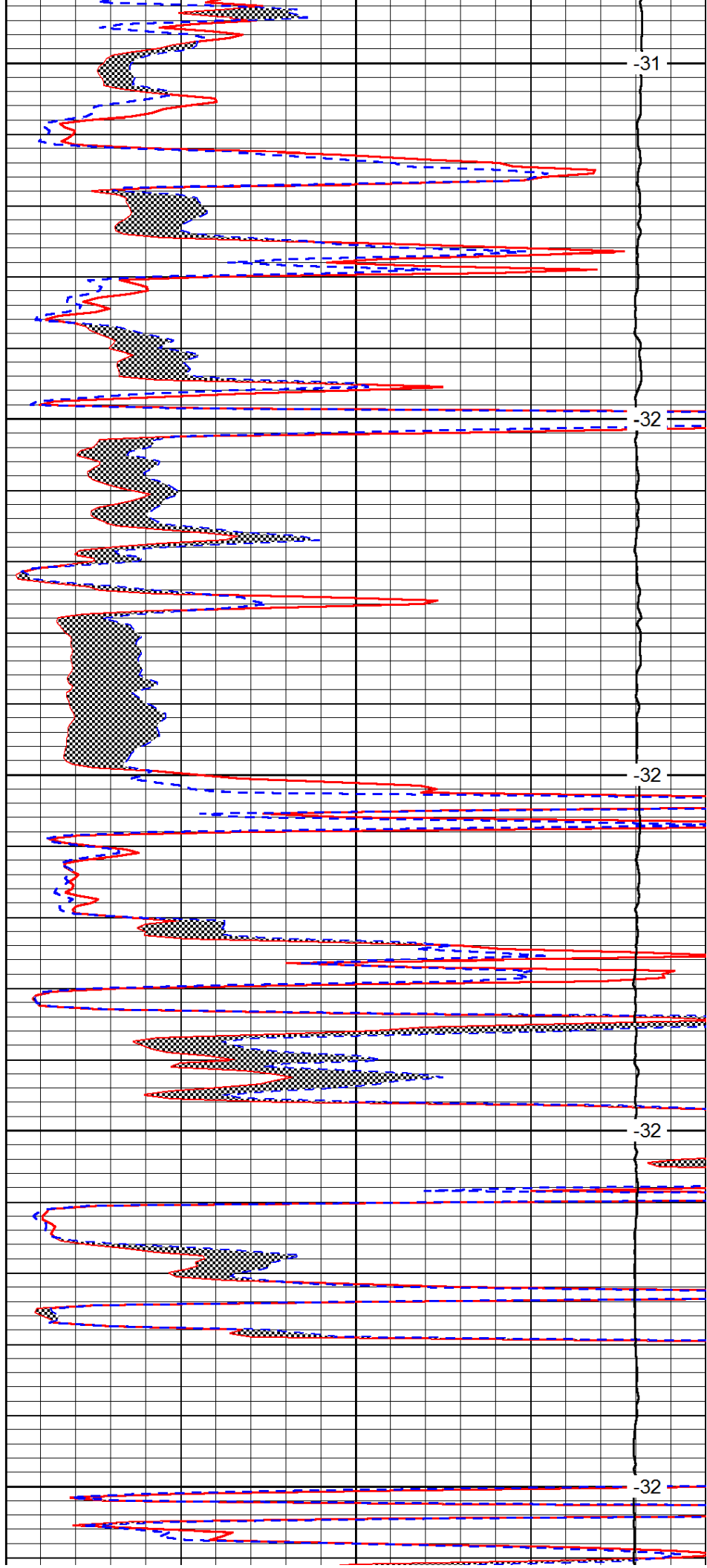
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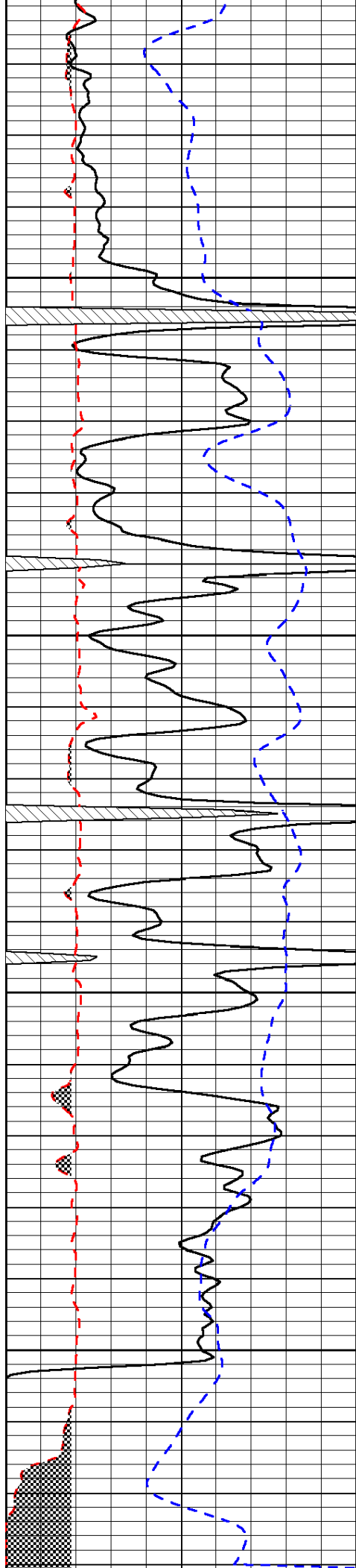
3750

3800

3850

3900



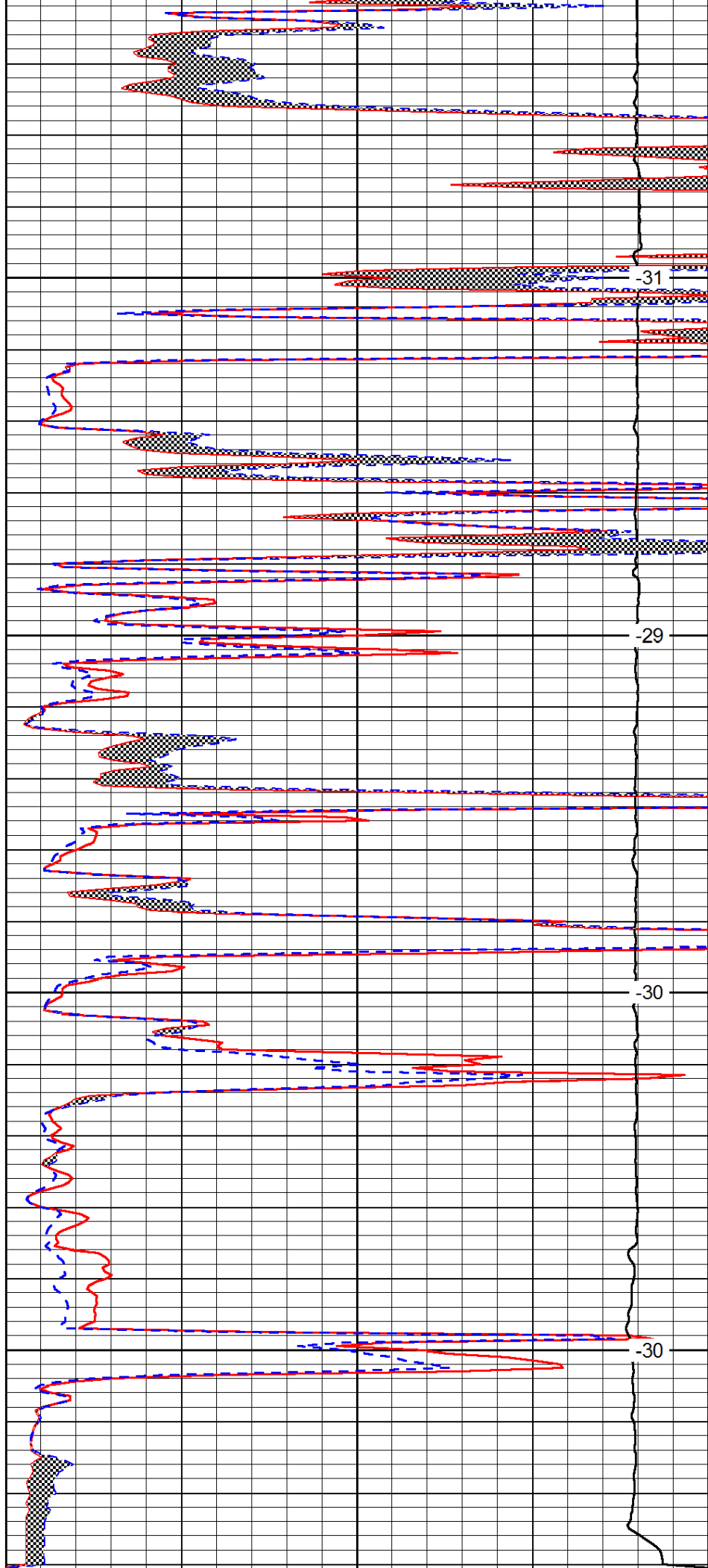


3950

4000

4050

4100



-31

-29

-30

-30

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