



Pioneer Energy Services

Microresistivity Log

API No.

15-159-22806-00-00

Company American Warrior, Inc.

Well Hoelscher # 3-10

Field Unknown

County Rice

State

Kansas

Location

1991' FSL & 2284' FEL

Sec: 10

Twp: 18 S

Rge: 10 W

Elevation

Permanent Datum Ground Level Elevation 1785
Log Measured From Kelly Bushing 8 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

K.B. 1793
D.F. 1785
G.L. 1785

Date

10-21-2014

Run Number

Two

Depth Driller

3400

Depth Logger

3397

Bottom Logged Interval

3396

Top Log Interval

2700

Casing Driller

8.625 @ 413

Casing Logger

406

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

3.700

Density / Viscosity

9.4 68

pH / Fluid Loss

11.0 8.0

Source of Sample

Flowline

Rm @ Meas. Temp

0.42 @ 80

Rmf @ Meas. Temp

0.32 @ 80

Rmc @ Meas. Temp

0.57 @ 80

Source of Rmf / Rmc

Charts

Rm @ BHT

0.31 @ 110

Operating Rig Time

4 Hours

Max Rec. Temp. F

110

Equipment Number

15

Location

Hays

Recorded By

Y. Ruiz

Witnessed By

Clint Musgrove

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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.

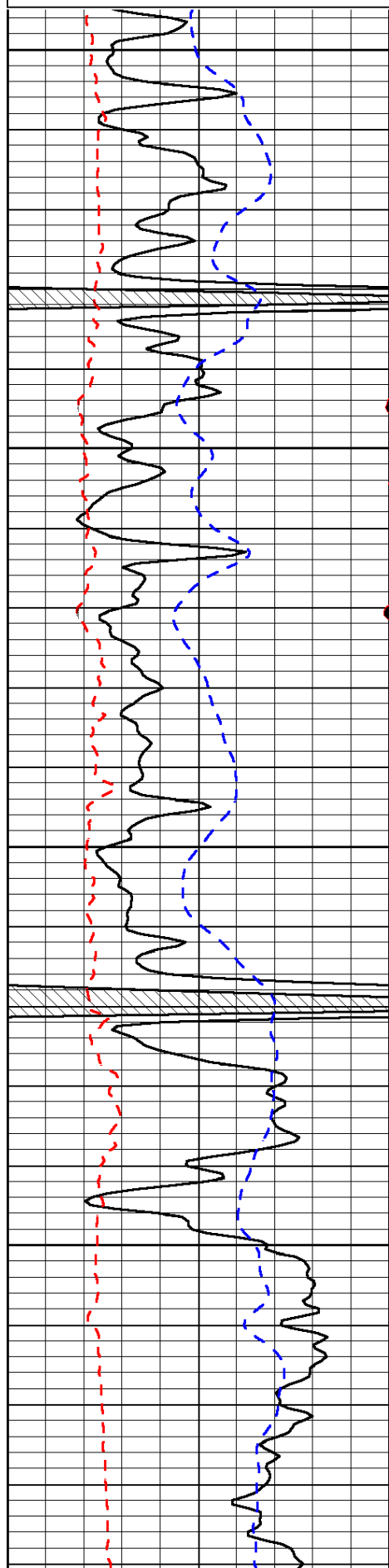
Comments

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

Bushton,
West to 4th Rd, 1 1/2 South,
East into

Database File: aw_hoelscher_3_10hd.db
Dataset Pathname: DIL/awstk
Presentation Format: micro
Dataset Creation: Tue Oct 21 20:50:04 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



2700

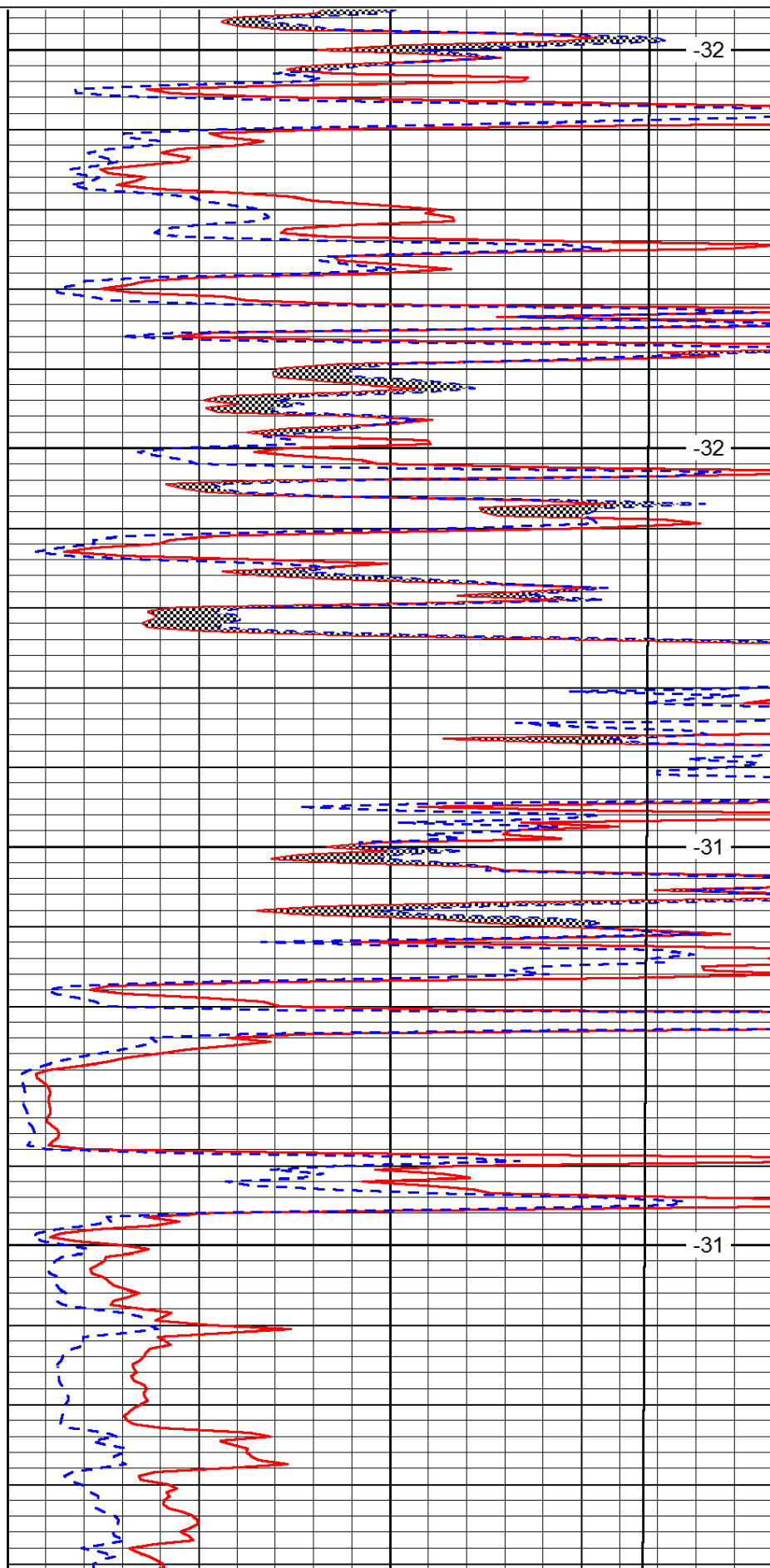
2750

2800

2850

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

LSPD

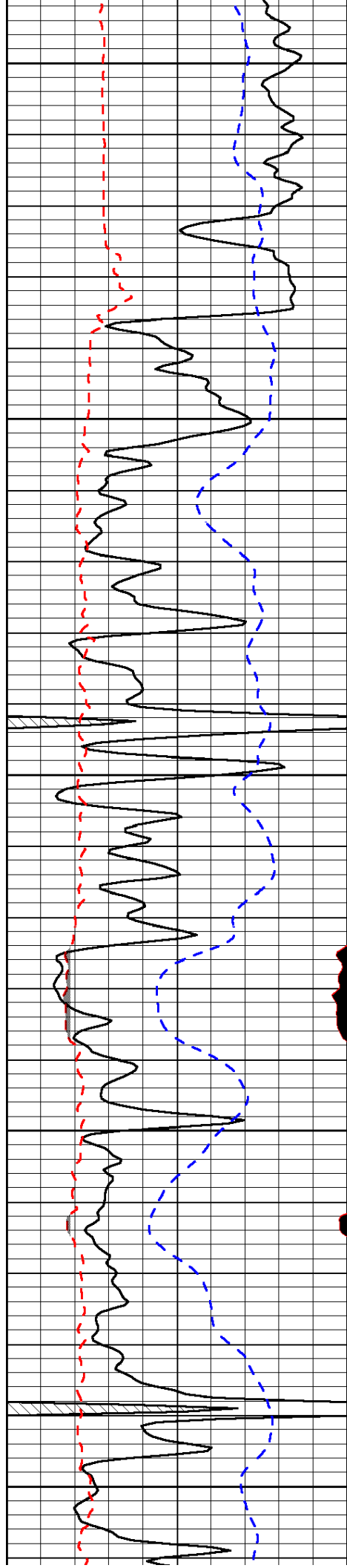


-32

-32

-31

-31



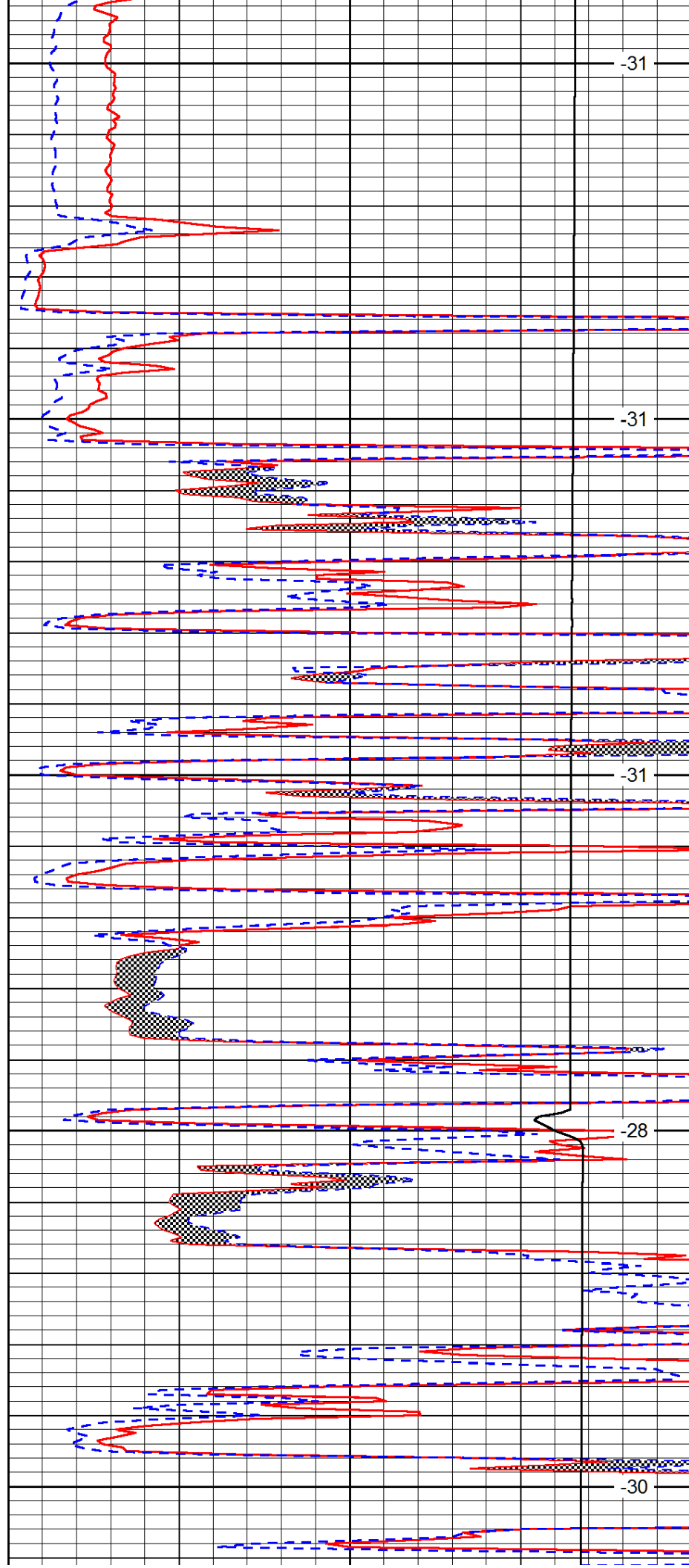
2900

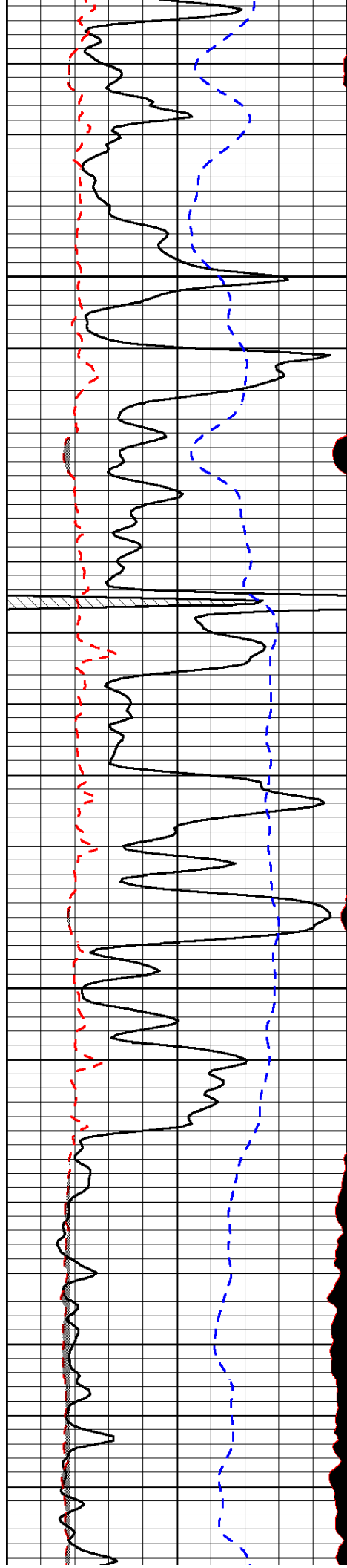
2950

3000

3050

3100



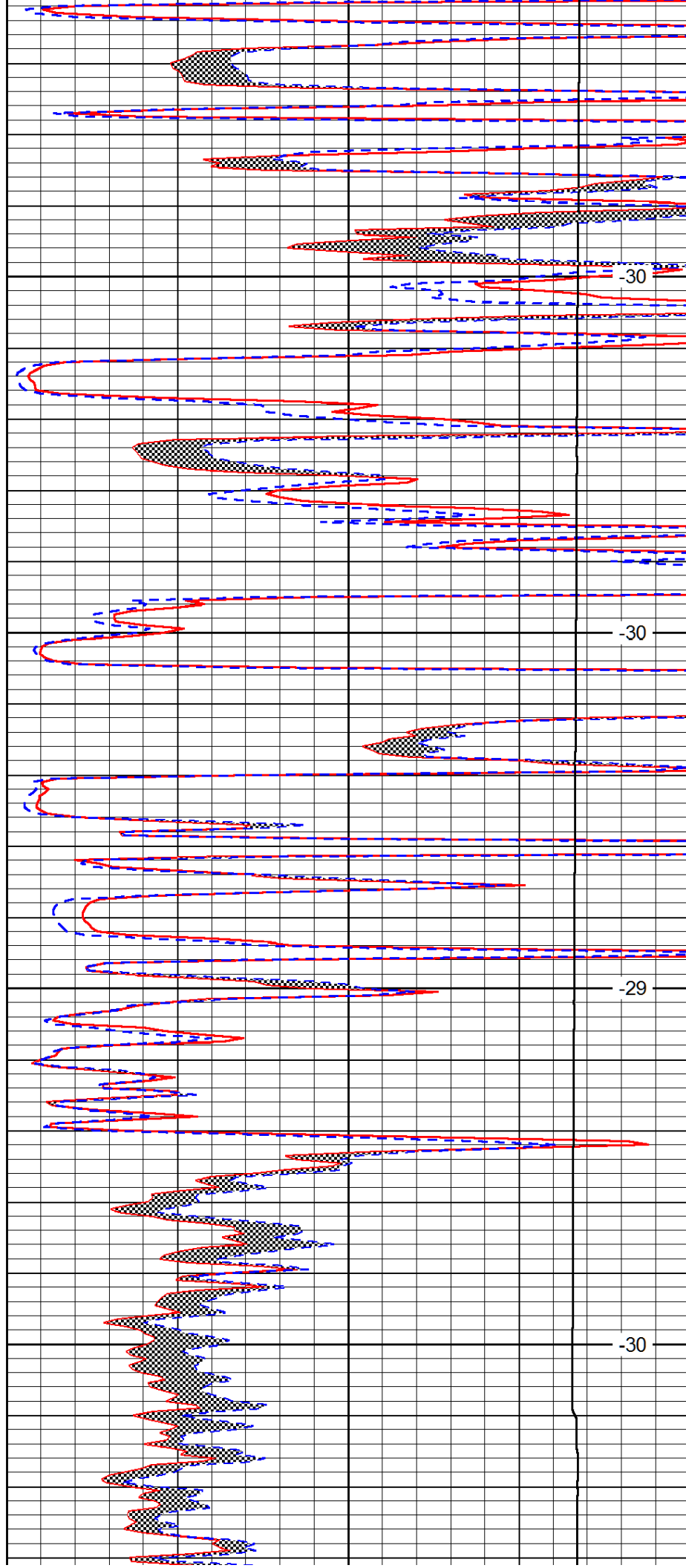


3150

3200

3250

3300

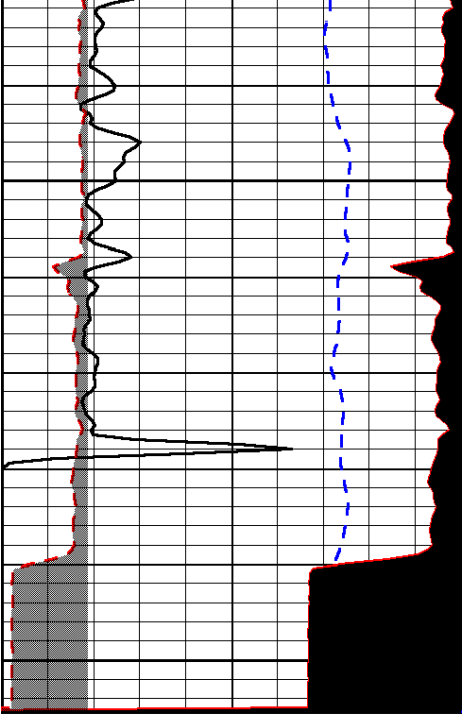


-30

-30

-29

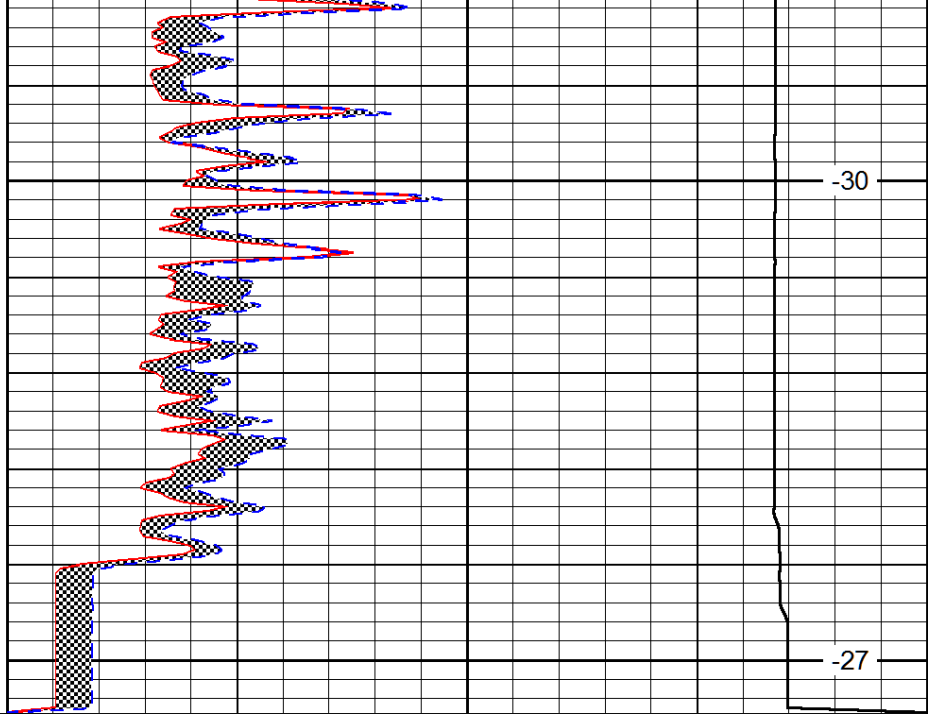
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