



Microresistivity Log

Pioneer Energy Services

API No.

15-083-21879-00-00

Company American Warrior, Inc.

Well Cure-Ruff #1-9

Field Wildcat

County Hodgeman State

Kansas

Location

128' FSL / 2226' FWL

Other Services
CNL / CDL
DIL / BHCS

Sec: 9

Twp: 22S

Rge: 21W

Elevation

Permanent Datum
Log Measured From
Drilling Measured From

Ground Level
Kelly Bushing
Kelly Bushing

Elevation 2148
K.B. 2159
D.F. 2148
G.L. 2148

Date

2/16/2013

Run Number

Two

Depth Driller

4500

Depth Logger

4498

Bottom Logged Interval

4497

Top Log Interval

3650

Casing Driller

8.625 @ 1020

Casing Logger

1008

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

6200

Density / Viscosity

9.2 67

pH / Fluid Loss

10.5 10.4

Source of Sample

Flowline

Rm @ Meas. Temp

0.26 @ 50

Rmf @ Meas. Temp

0.20 @ 50

Rmc @ Meas. Temp

0.35 @ 50

Source of Rmf / Rmc

Charts

Rm @ BHT

0.11 @ 121

Operating Rig Time

4 Hours

Max Rec. Temp. F

121

Equipment Number

15

Location

Hays

Recorded By

R. Barnhart

Witnessed By

Kevin Timson

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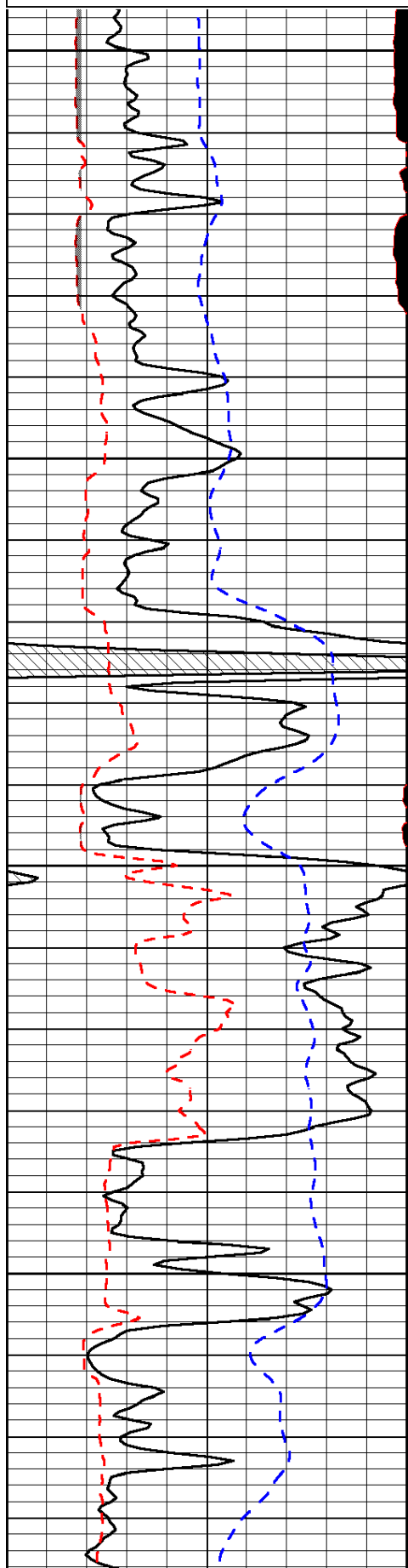
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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

Burdett, KS:
6W, 1S, 1/2W, N into

Charted by: Depth in Feet scaled 1:2.15		
0	Gamma Ray (GAPI)	150
6	MCAL (in)	16
2.875	Mud Cake (in)	7.875
-200	SP (mV)	0



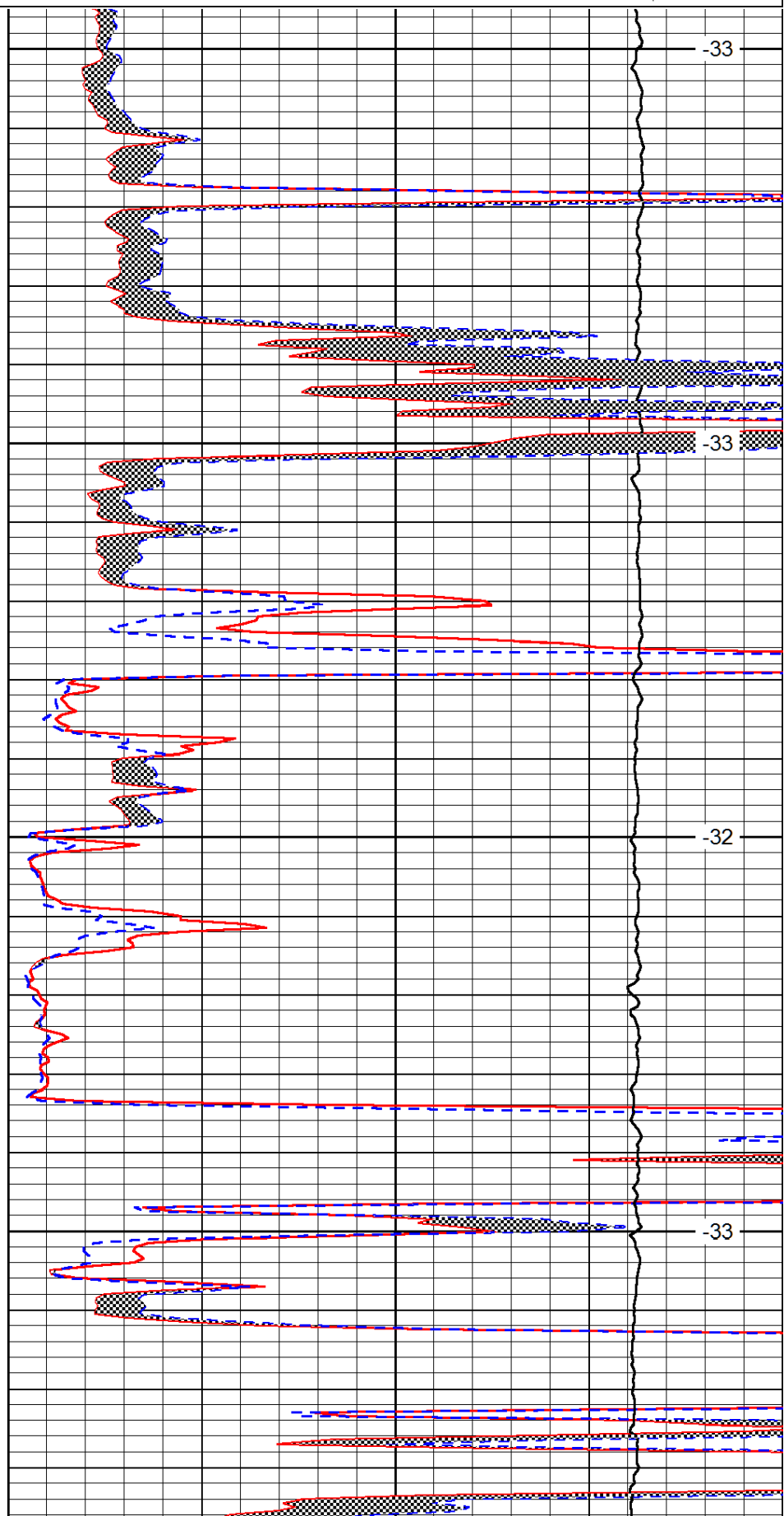
3650

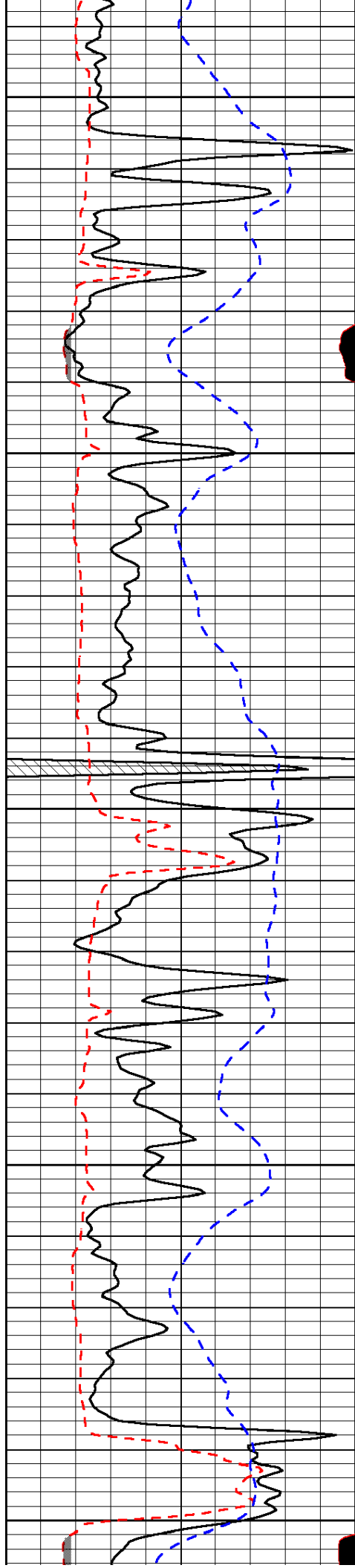
3700

3750

3800

0	Micro Inverse 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0
		LSPD (ft/min)





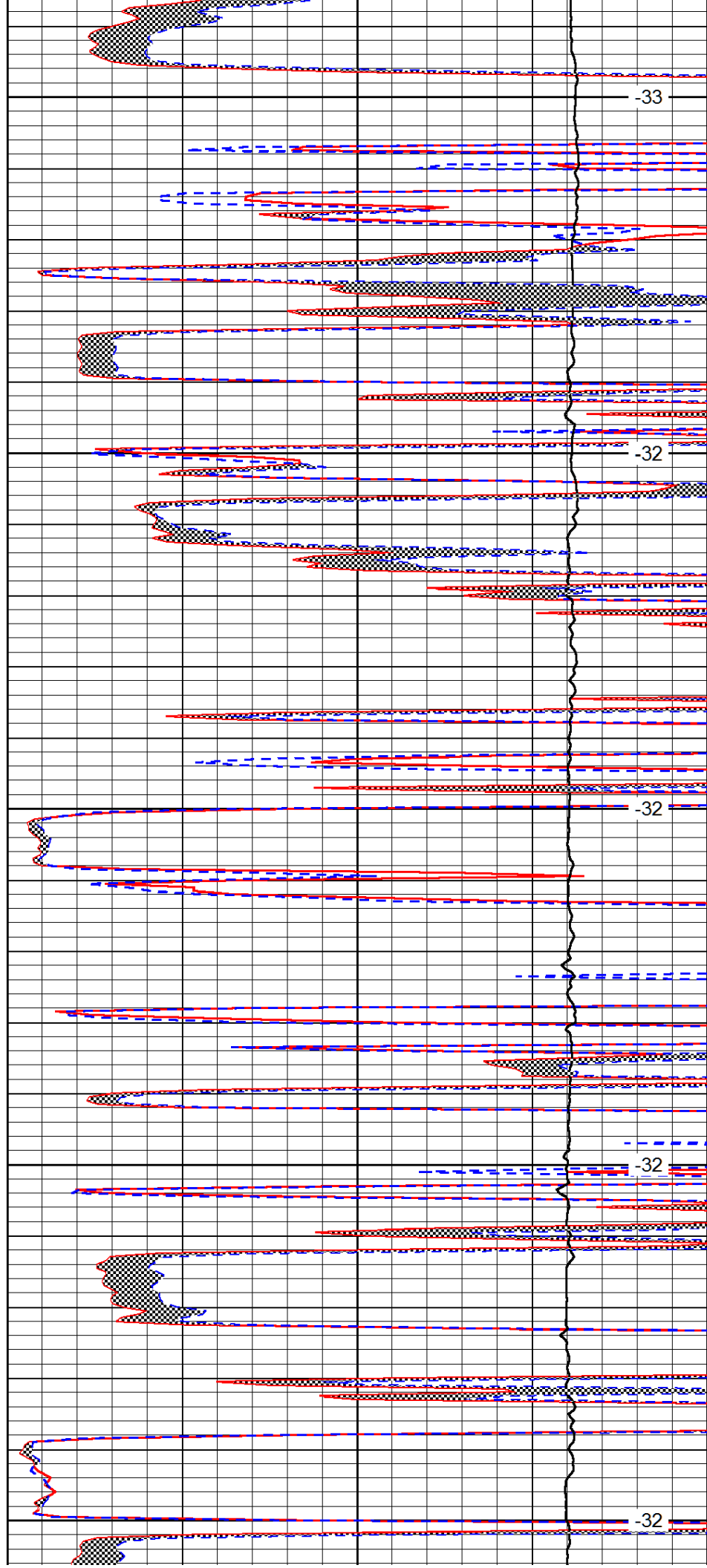
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3900

3950

4000

4050



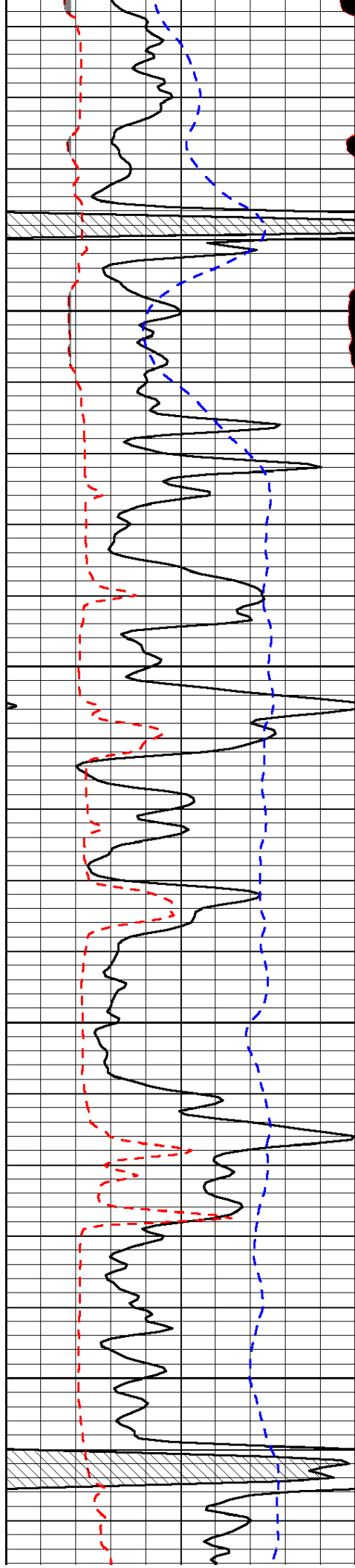
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-32

-32

-32

-32

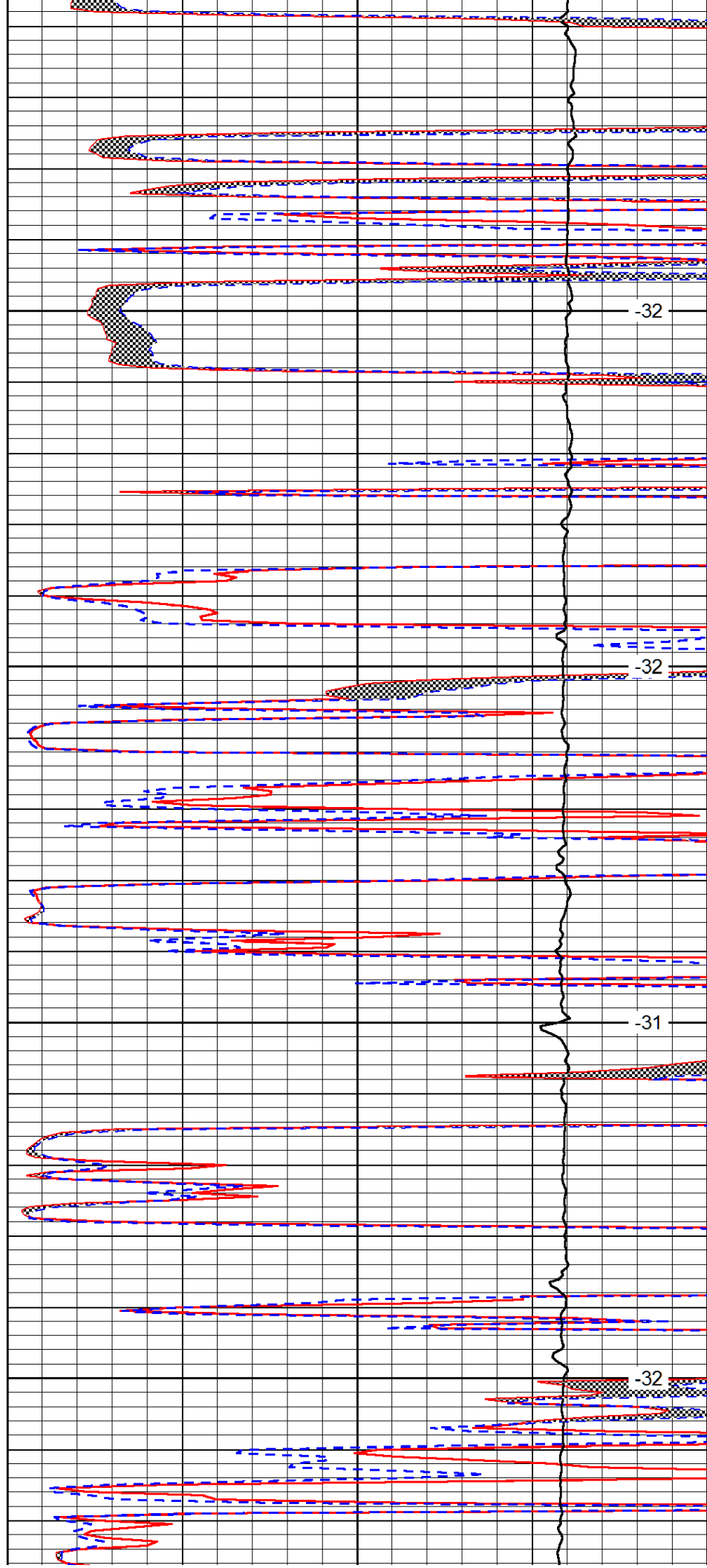


4100

4150

4200

4250

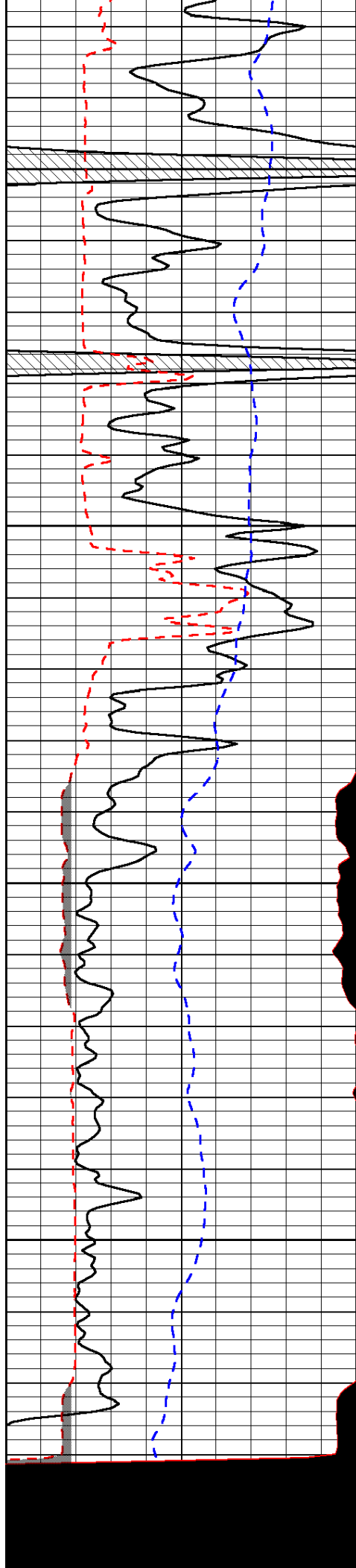


-32

-32

-31

-32

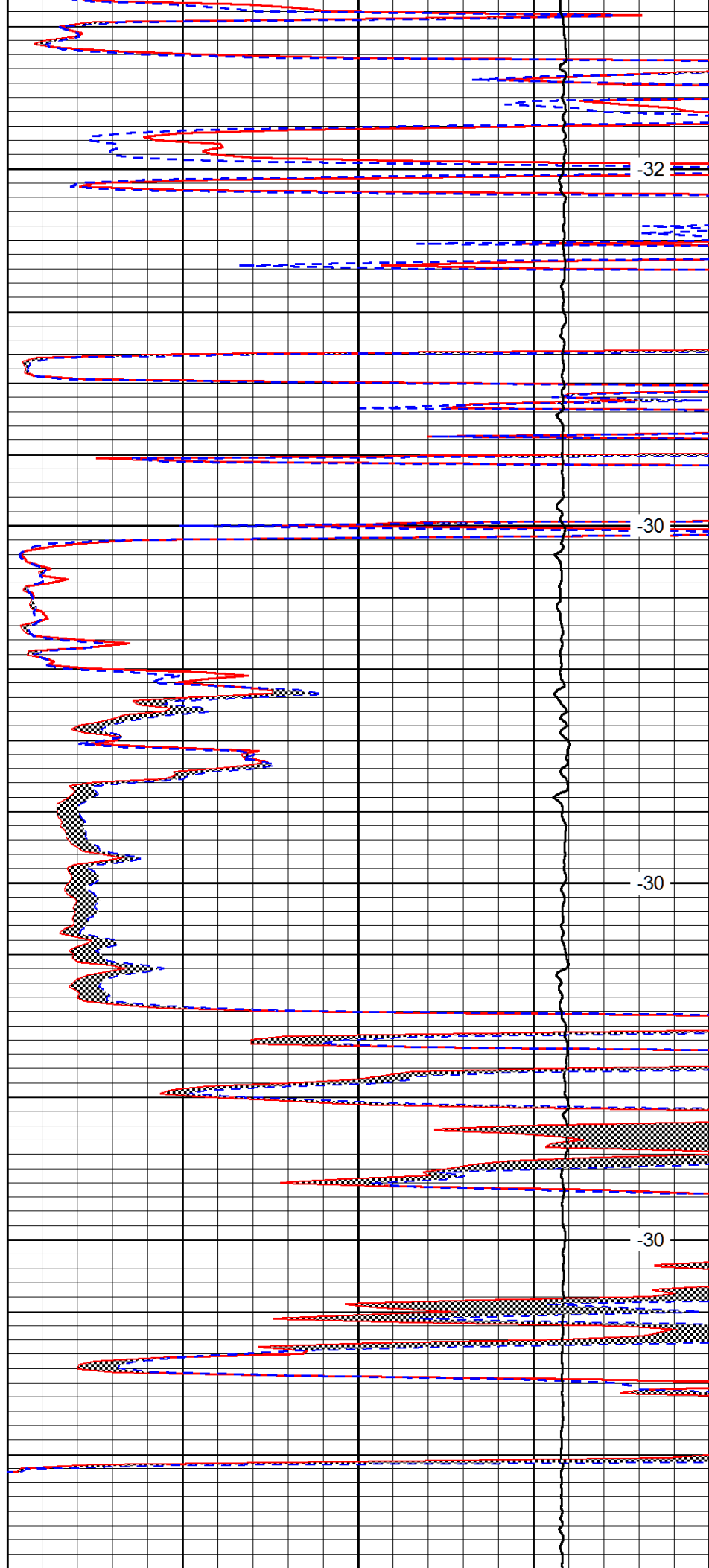


4300

4350

4400

4450



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