



Microresistivity Log

Pioneer Energy Services

API No.

15-055-22,275-00-00

Company American Warrior, Inc.

Well Neeley No. 9-33

Field Congdon

County Finney State Kansas

Location SW-NE-NW-NE
346' FNL & 1662' FEL

Sec: 33

Twp: 23S

Rge: 32W

Other Services
CNL/CDL
DIL/BHCS

Permanent Datum Ground Level

Elevation 2831

Log Measured From Kelly Bushing

11 Ft. Above Perm. Datum

Elevation
K.B. 2842
D.F. 2831
G.L. 2831

Date

2/24/14

Run Number

Two

Depth Driller

4850

Depth Logger

4845

Bottom Logged Interval

4844

Top Log Interval

3800

Casing Driller

8.625 @ 1737

Casing Logger

1740

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

3,500

Density / Viscosity

9.4 45

pH / Fluid Loss

10.0 6.4

Source of Sample

Flowline

Rm @ Meas. Temp

.70 @ 43

Rmf @ Meas. Temp

.53 @ 43

Rmc @ Meas. Temp

.95 @ 43

Source of Rmf / Rmc

Charts

Rm @ BHT

.24 @ 125

Operating Rig Time

5 Hours

Max Rec. Temp. F

125

Equipment Number

15

Location

Hays

Recorded By

J. Henrickson

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.

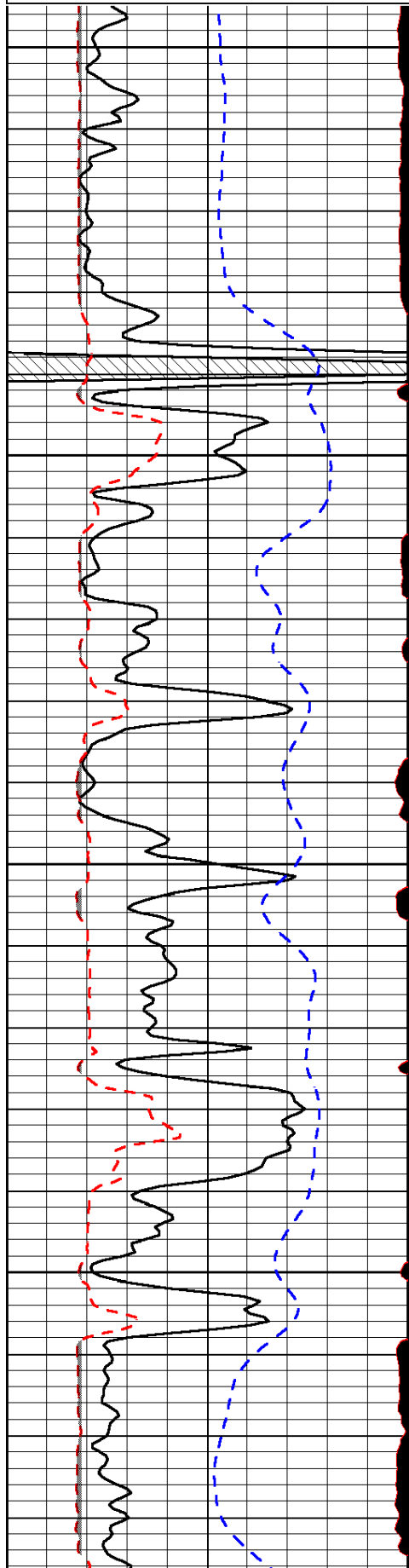
Comments

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

Garden City Kansas
1 North on HWY 83 to Rodkey Rd, 2 3/4 East, South Into

Database File: american_warrior_neeley_9_33hd.db
Dataset Pathname: DIL/awstk
Presentation Format: micro
Dataset Creation: Mon Feb 24 06:50:03 2014
Charted by: Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
6	MCAL (in)	16
2.875	Mud Cake (in)	7.875
-200	SP (mV)	0



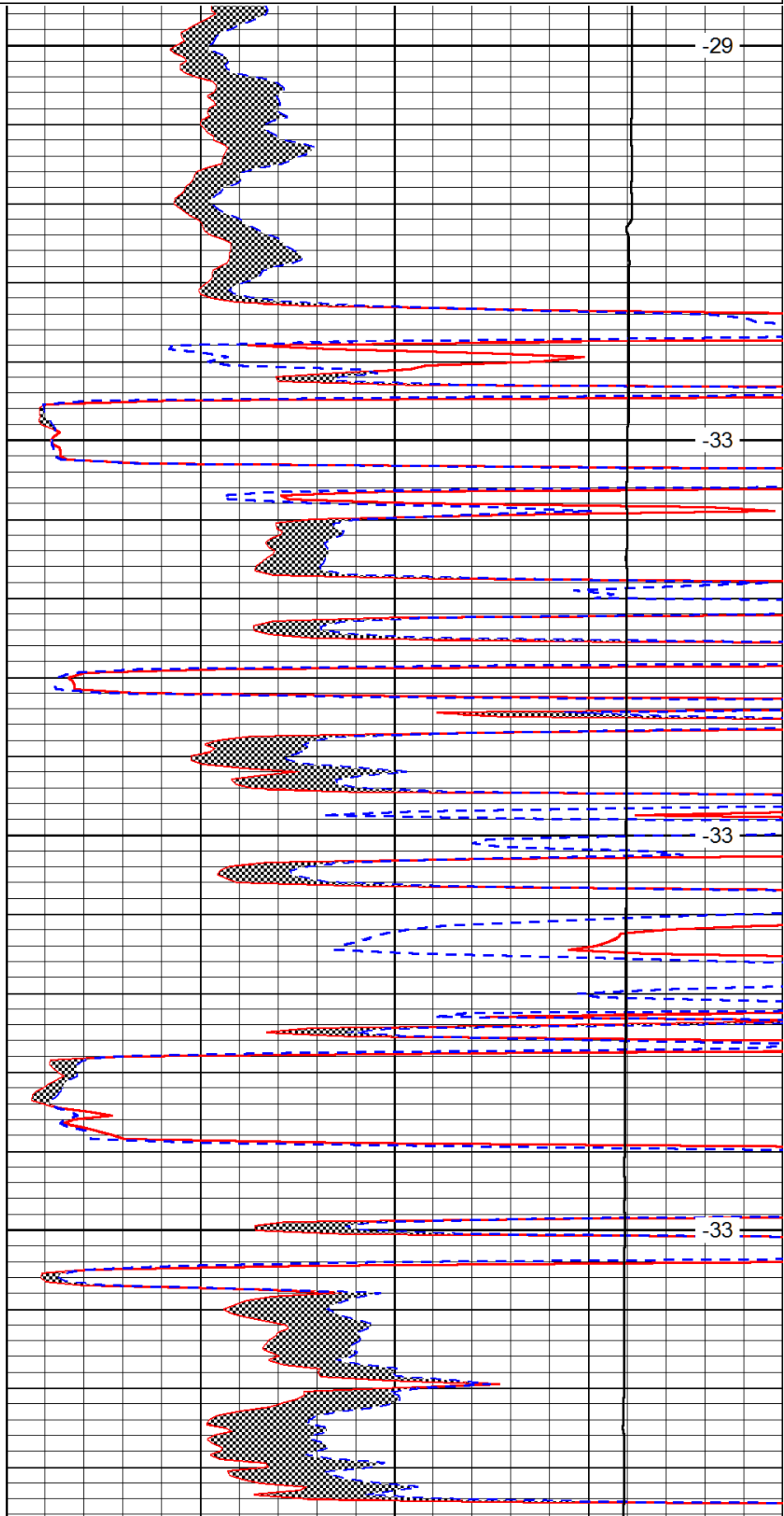
3800

3850

3900

3950

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

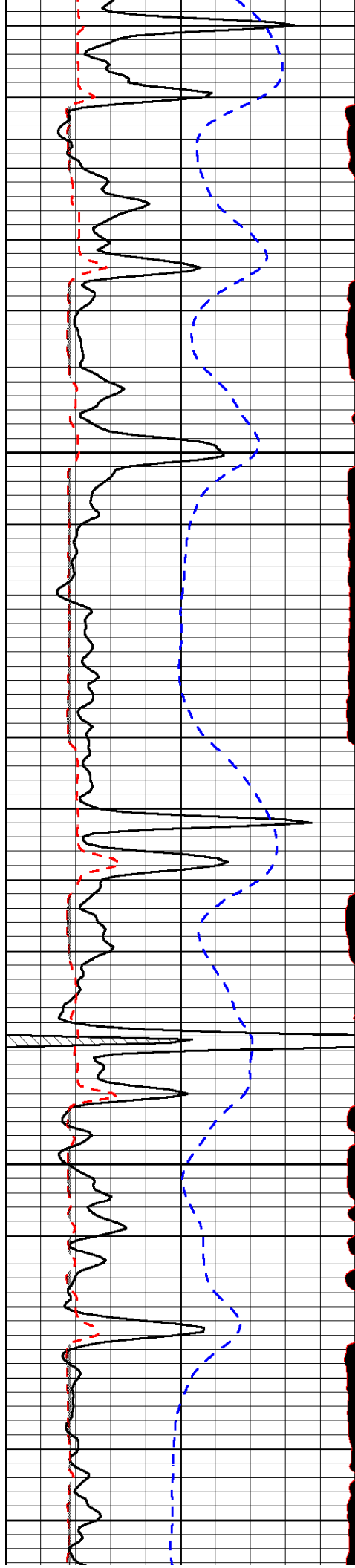


-29

-33

-33

-33



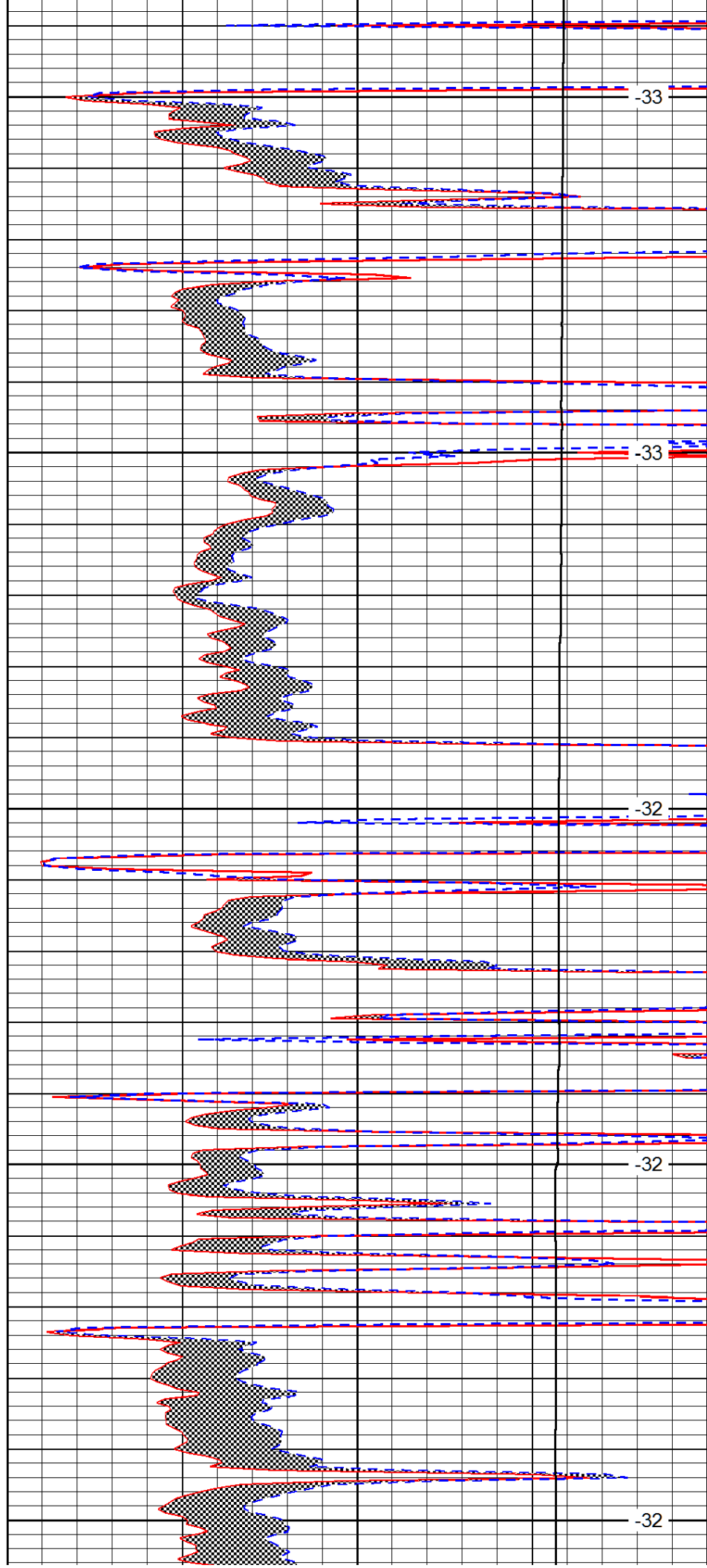
4000

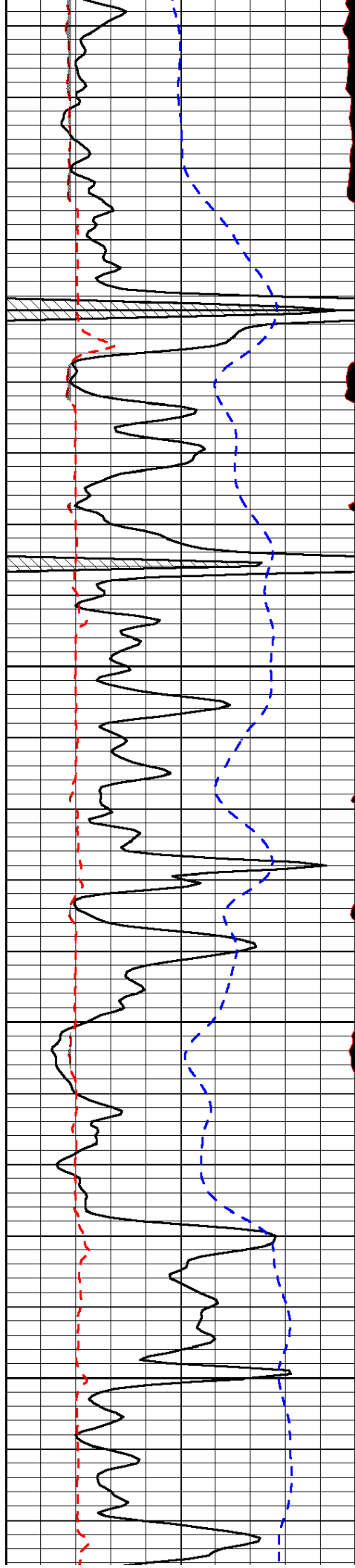
4050

4100

4150

4200



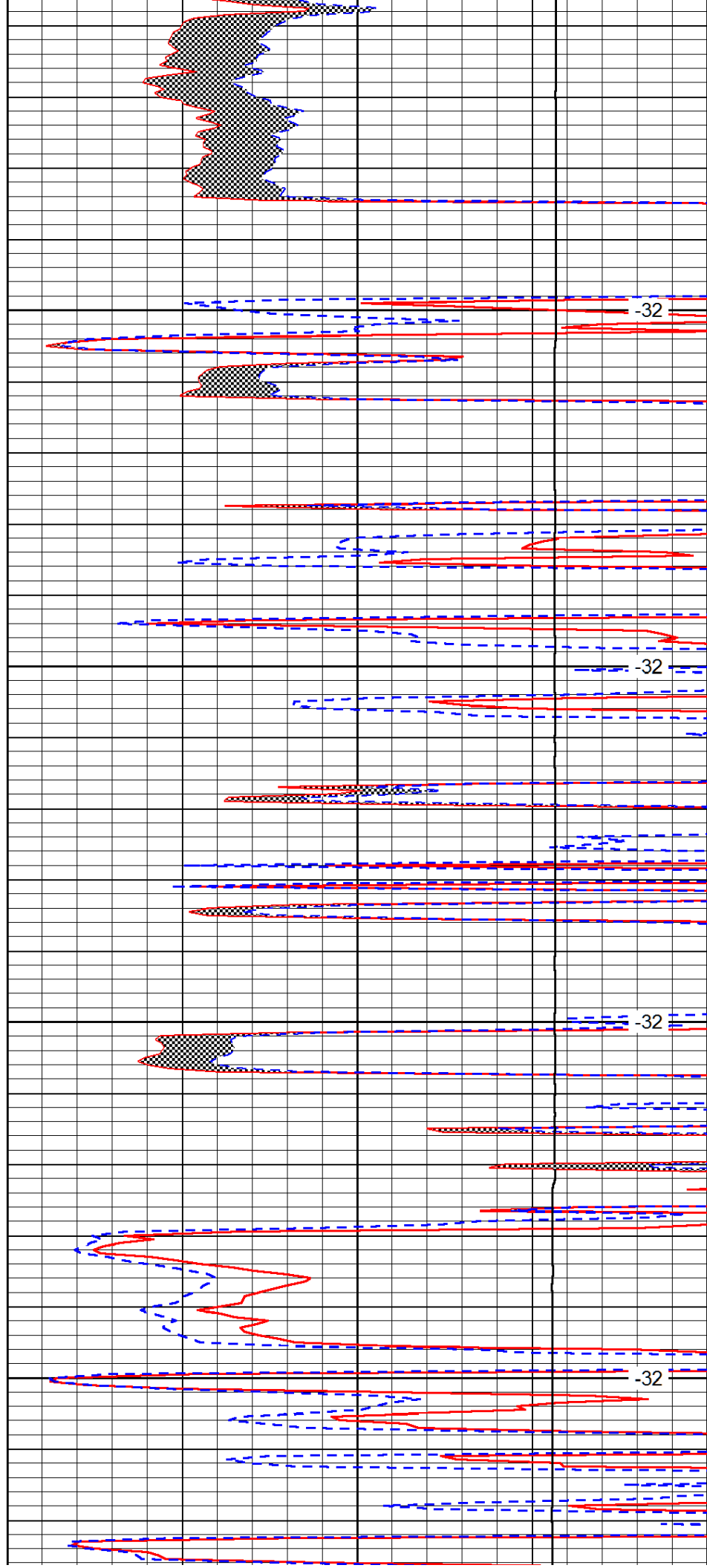


4250

4300

4350

4400

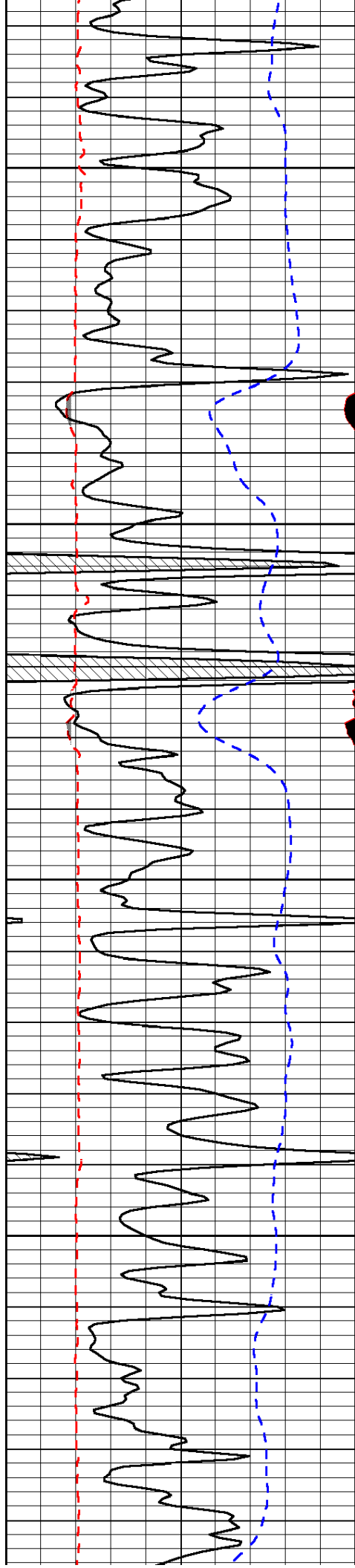


-32

-32

-32

-32

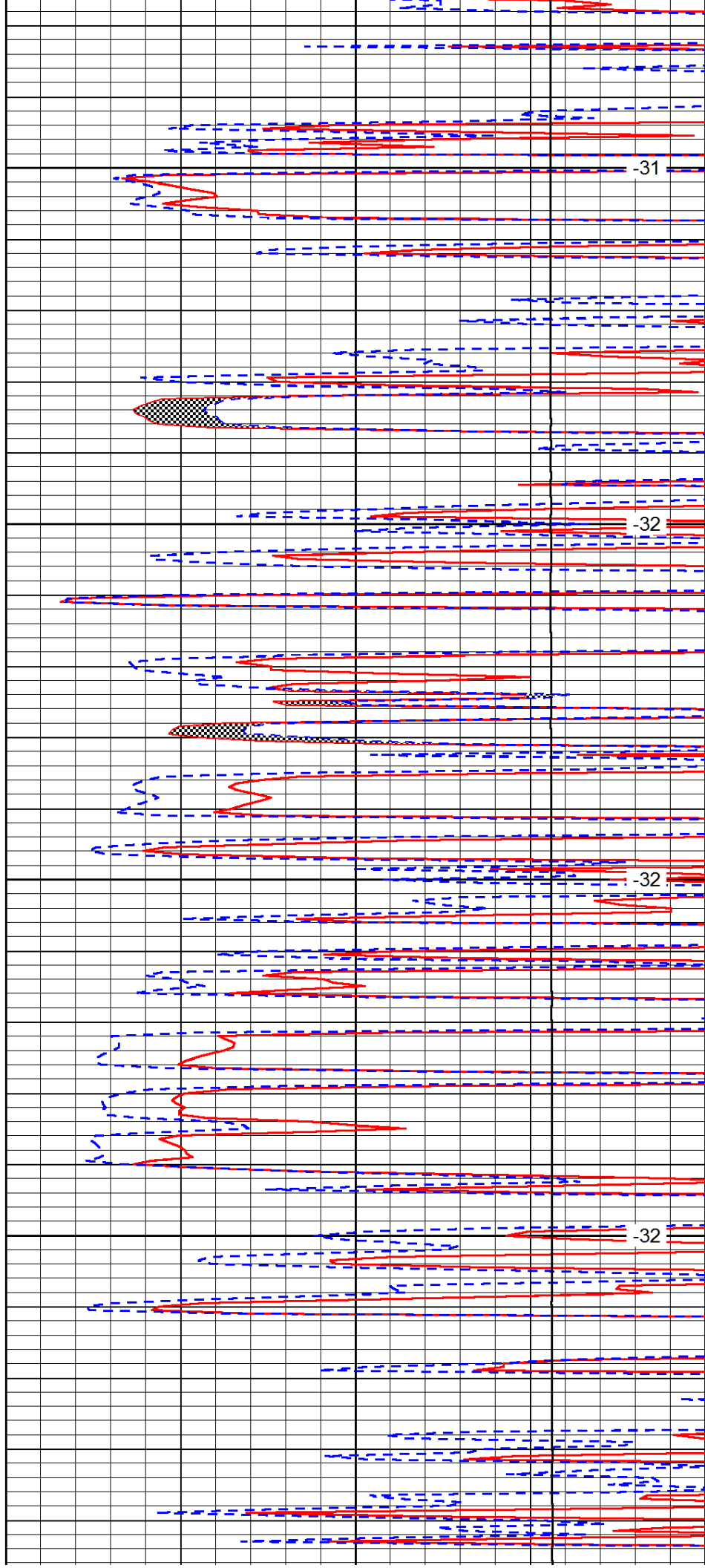


4450

4500

4550

4600

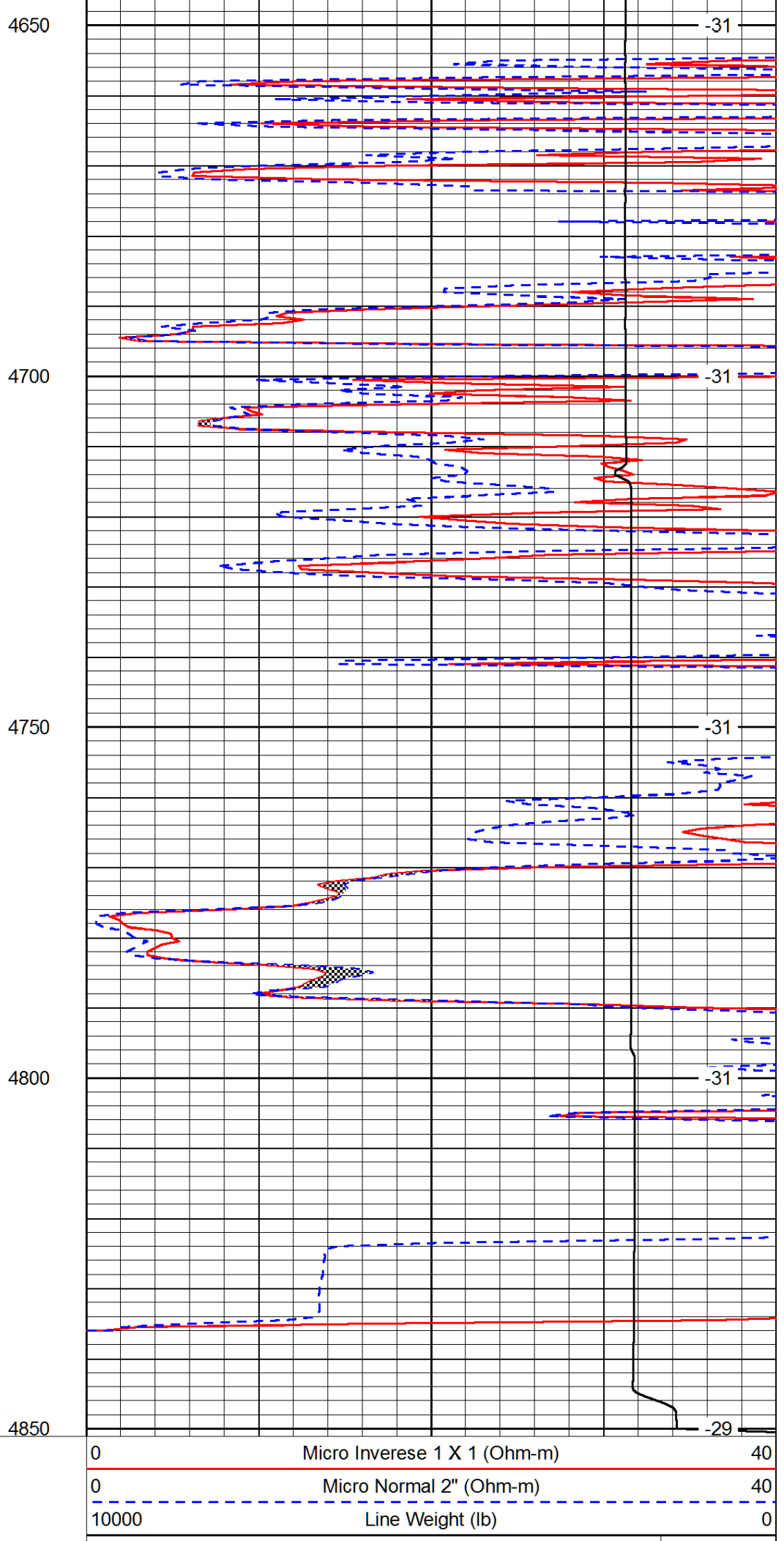
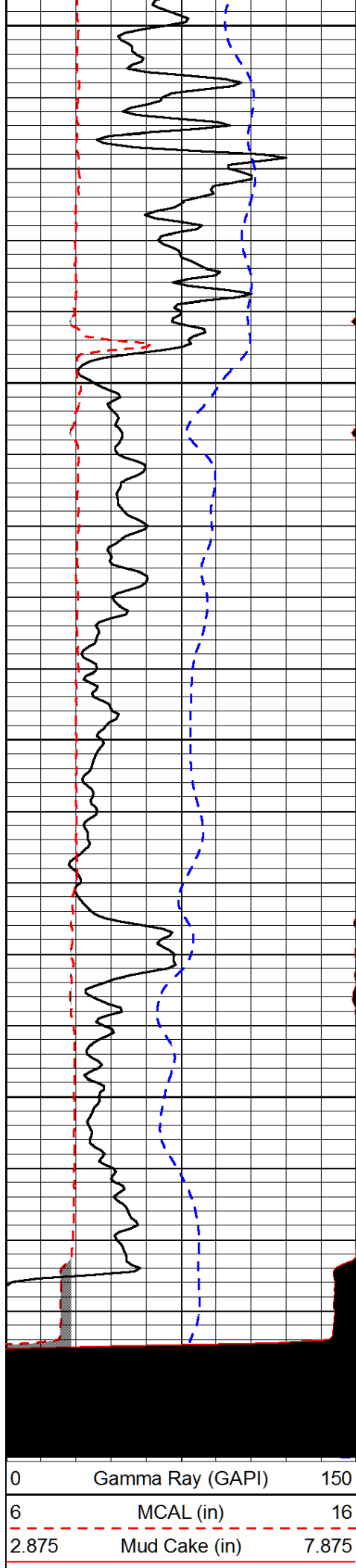


-31

-32

-32

-32



-200 SP (mV) 0

LSPD
(ft/min)