



Microresistivity Log

Pioneer Energy Services

API No.

15-065-23848-00-00

Company American Warrior, Inc.

Well Berland #1-12

Field Unnamed

County Graham State

Kansas

Location

339' FSL & 1400' FEL

Other Services
CNL/CDL
DIL/BHCS

Sec: 12

Twp: 8S

Rge: 21W

Elevation

Permanent Datum Ground Level

Elevation 2028

Log Measured From Kelly Bushing

10 Ft. Above Perm. Datum

K.B. 2038
D.F. 2028
G.L. 2028

Date

8/15/2012

Run Number

Two

Depth Driller

3650

Depth Logger

3651

Bottom Logged Interval

3650

Top Log Interval

2800

Casing Driller

8.625 @ 222

Casing Logger

222

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

1800

Density / Viscosity

9.1 51

pH / Fluid Loss

10.5 7.4

Source of Sample

Flowline

Rm @ Meas. Temp

1.05 @ 65

Rmf @ Meas. Temp

0.79 @ 65

Rmc @ Meas. Temp

1.42 @ 65

Source of Rmf / Rmc

Charts

Rm @ BHT

0.60 @ 115

Operating Rig Time

5 Hours

Max Rec. Temp. F

115

Equipment Number

91

Location

Hays

Recorded By

D. Schmidt

Witnessed By

Jeff Lawler

<<< Fold Here >>>

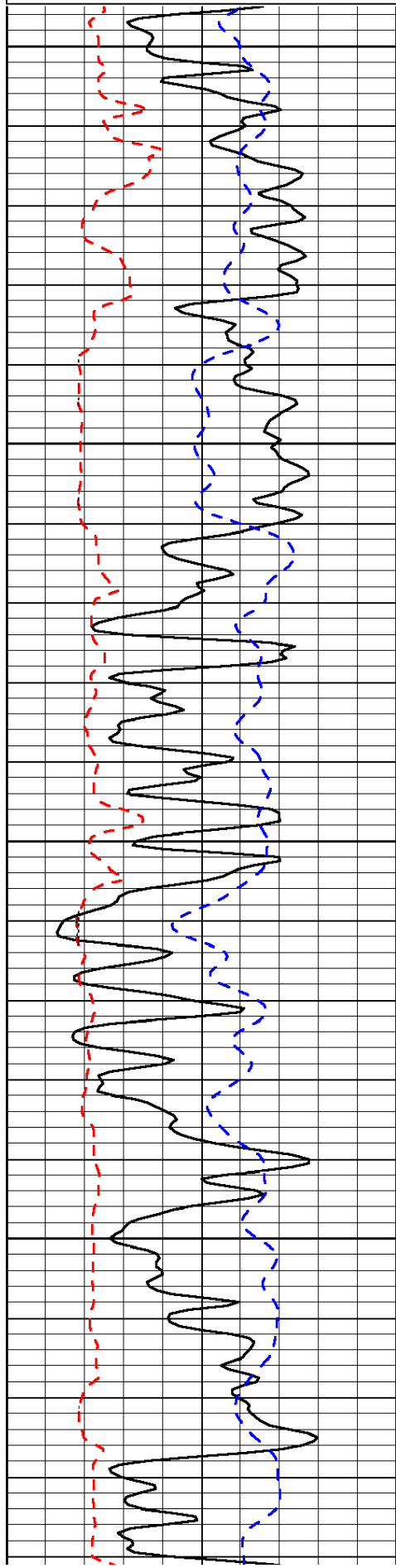
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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
Damar,
2 1/2 North on Rd 2 to O Rd, 1 West,
West into

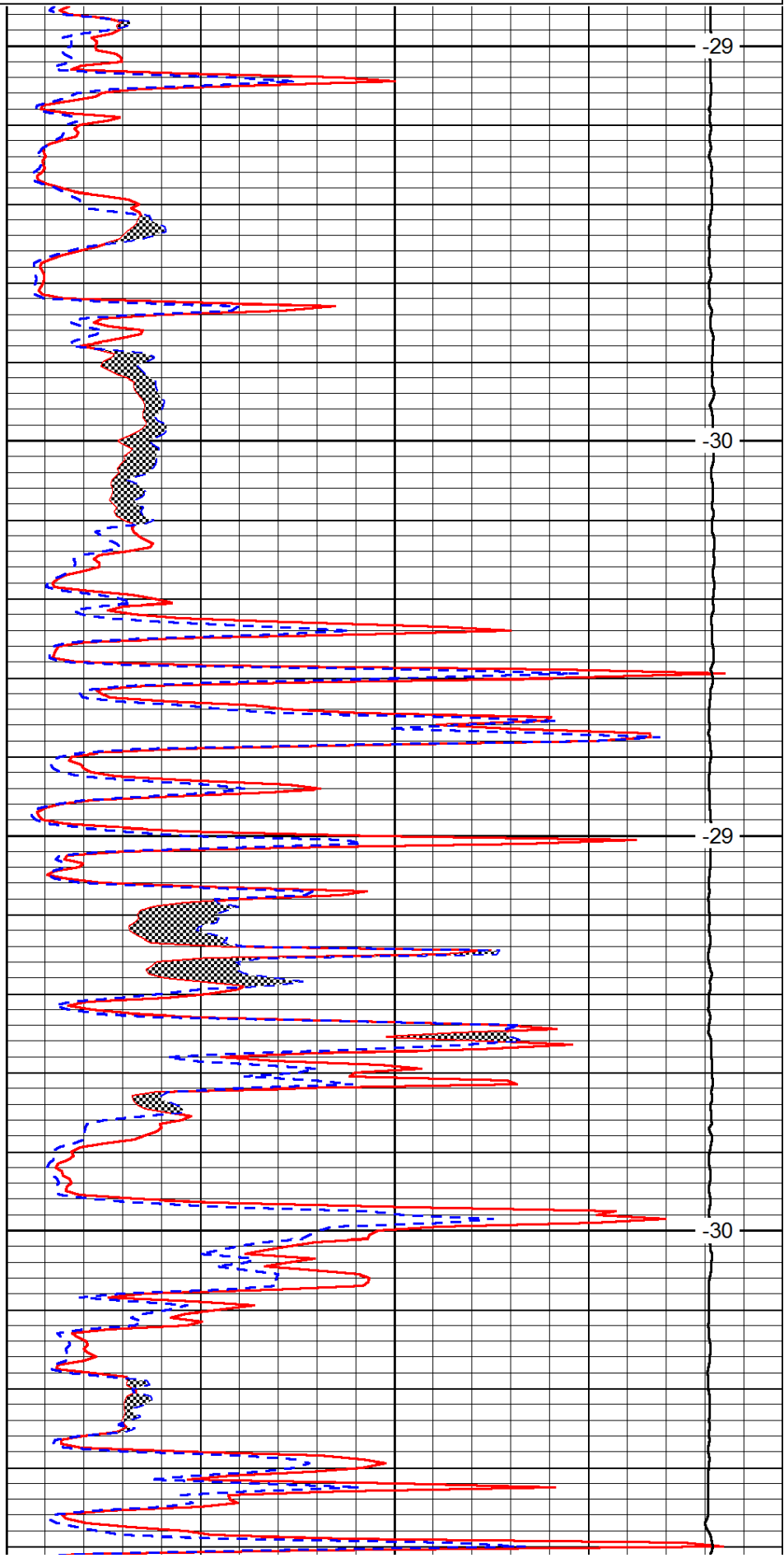
Database File: c:\warrior\data\amwar_berland #1-12\amwar_081512hd.db
Dataset Pathname: dil\awstack
Presentation Format: micro
Dataset Creation: Wed Aug 15 07:27:51 2012
Charted by: Depth in Feet scaled 1:240

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

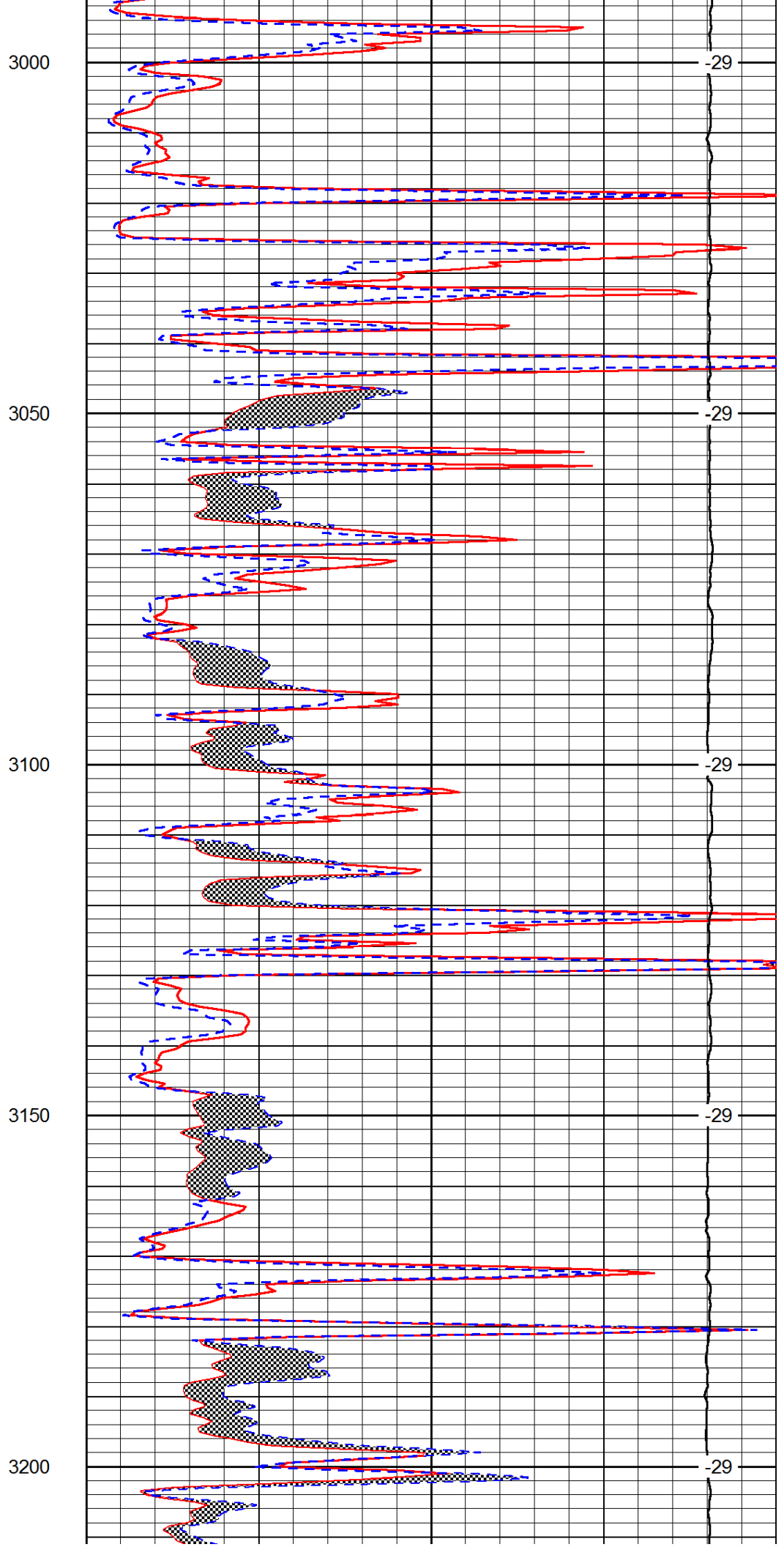
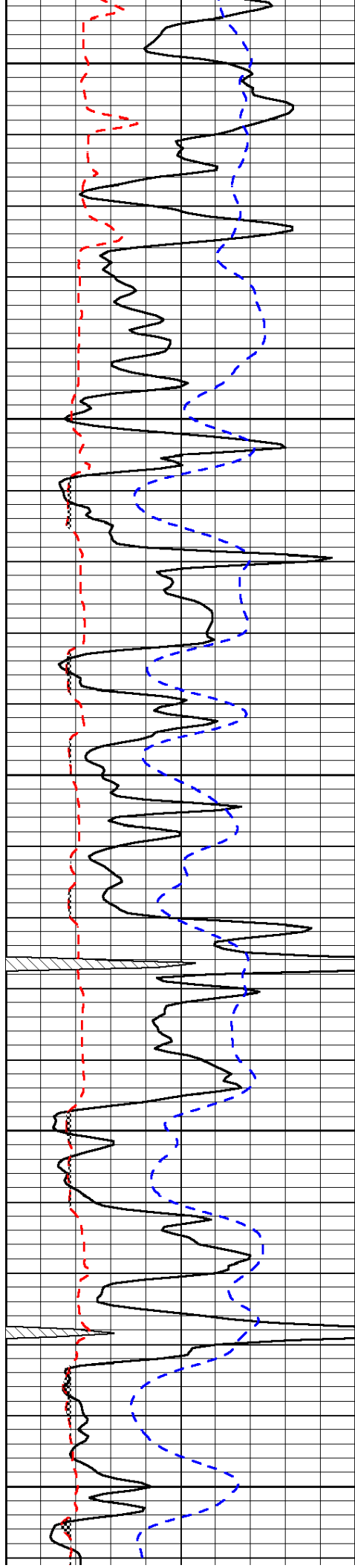


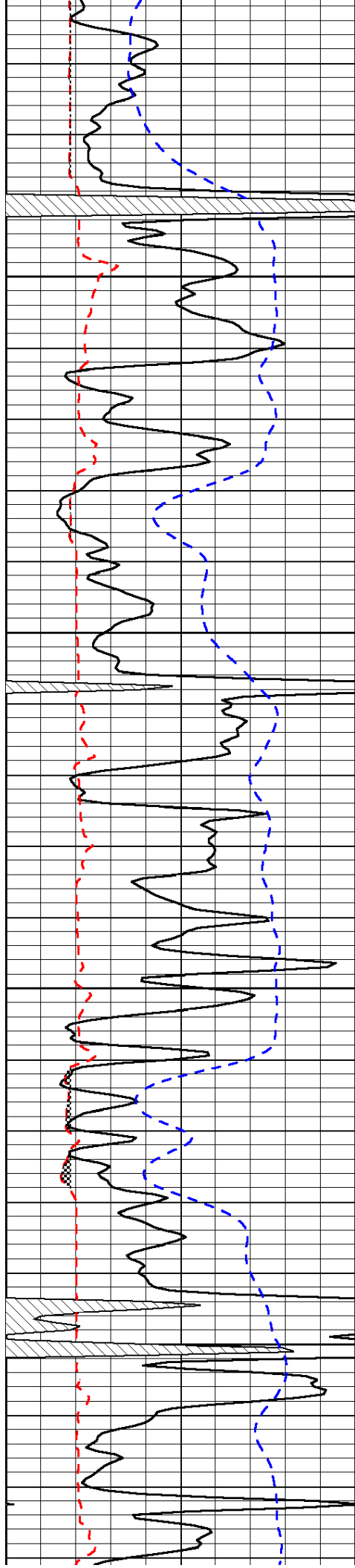
2800
2850
2900
2950

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



-29
-30
-29
-30



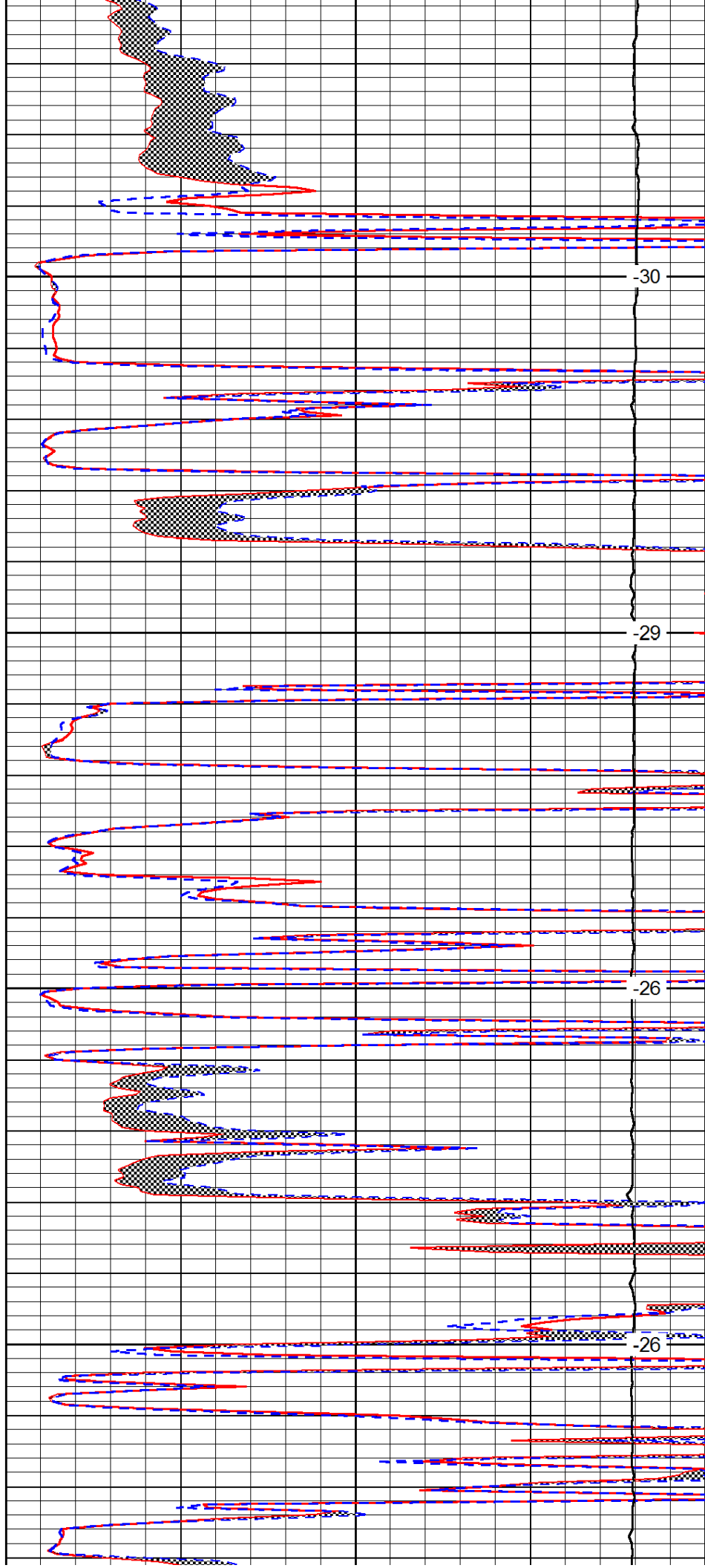


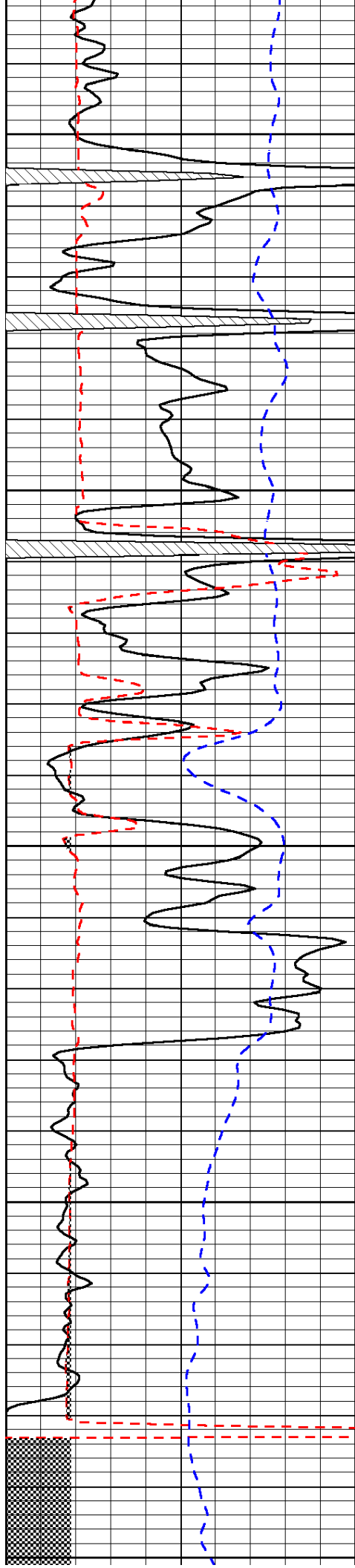
3250

3300

3350

3400





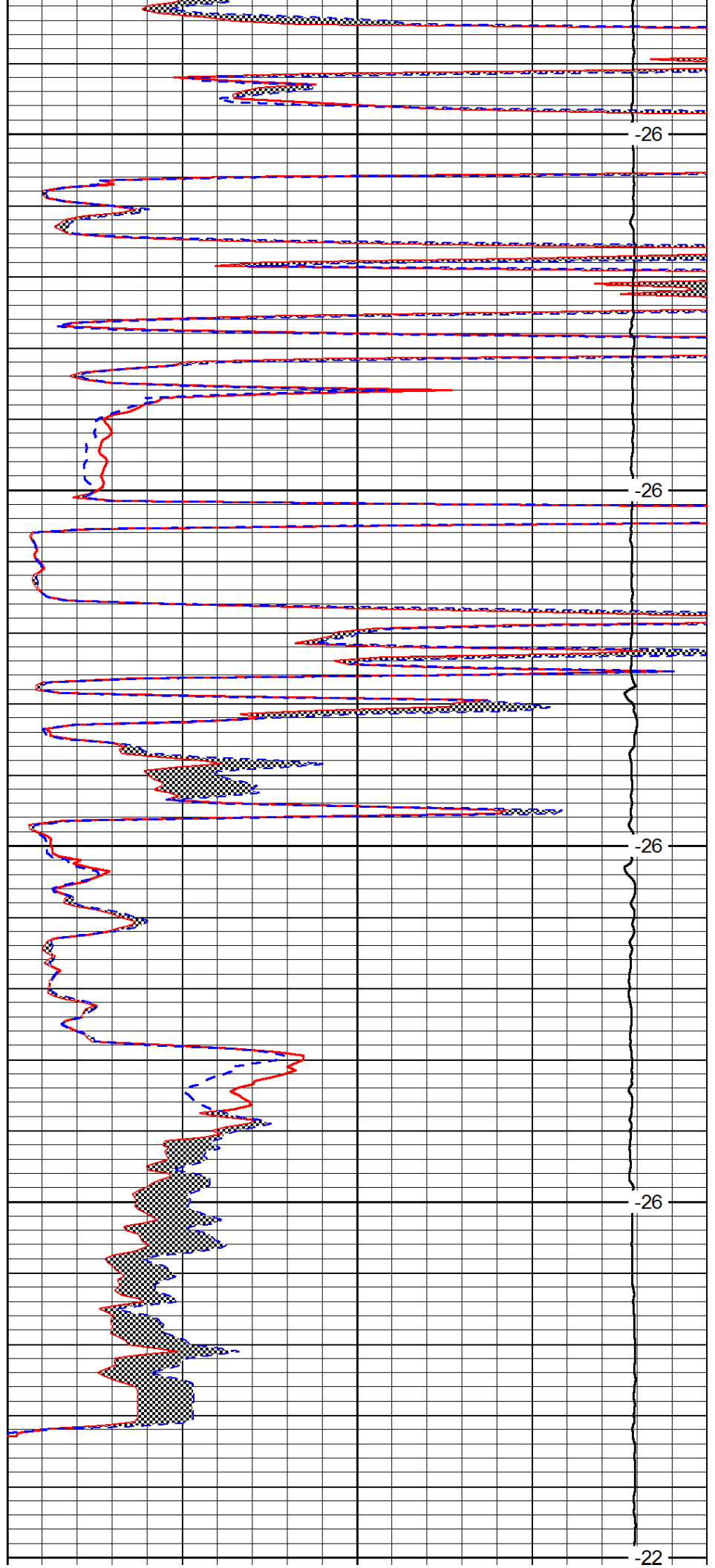
3450

3500

3550

3600

3650



-26

-26

-26

-26

-22

