



PIONEER

Pioneer Energy Services

Microresistivity Log

API No.

15-159-22,804-00-00

Company American Warrior, Inc.

Well Dorothy No. 1-3

Field Geneseo-Edwards

County Rice State Kansas

Location W-SE-SE-SE
335' FSL & 335' FEL

Sec: 3 Twp: 18S Rge: 8W

Permanent Datum Ground Level Elevation 1780

Log Measured From Kelly Bushing 8 Ft. Above Perm. Datum

Drilling Measured From Kelly Bushing

Other Services
CNL/CDL
DIL/BHCS

Elevation
K.B. 1788
D.F. 1780
G.L. 1780

Date

11/4/14

Run Number

Two

Depth Driller

3400

Depth Logger

3382

Bottom Logged Interval

3381

Top Log Interval

2600

Casing Driller

8.625 @ 444

Casing Logger

436

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

4.100

Density / Viscosity

9.3 48

pH / Fluid Loss

11.0 7.2

Source of Sample

Flowline

Rm @ Meas. Temp

.47 @ 52

Rmf @ Meas. Temp

.35 @ 52

Rmc @ Meas. Temp

.63 @ 52

Source of Rmf / Rmc

Charts

Rm @ BHT

.22 @ 110

Operating Rig Time

4 Hours

Max Rec. Temp. F

110

Equipment Number

108

Location

Hays

Recorded By

J. Henrickson

Witnessed By

Wyatt Urban

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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

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(785) 625-3858

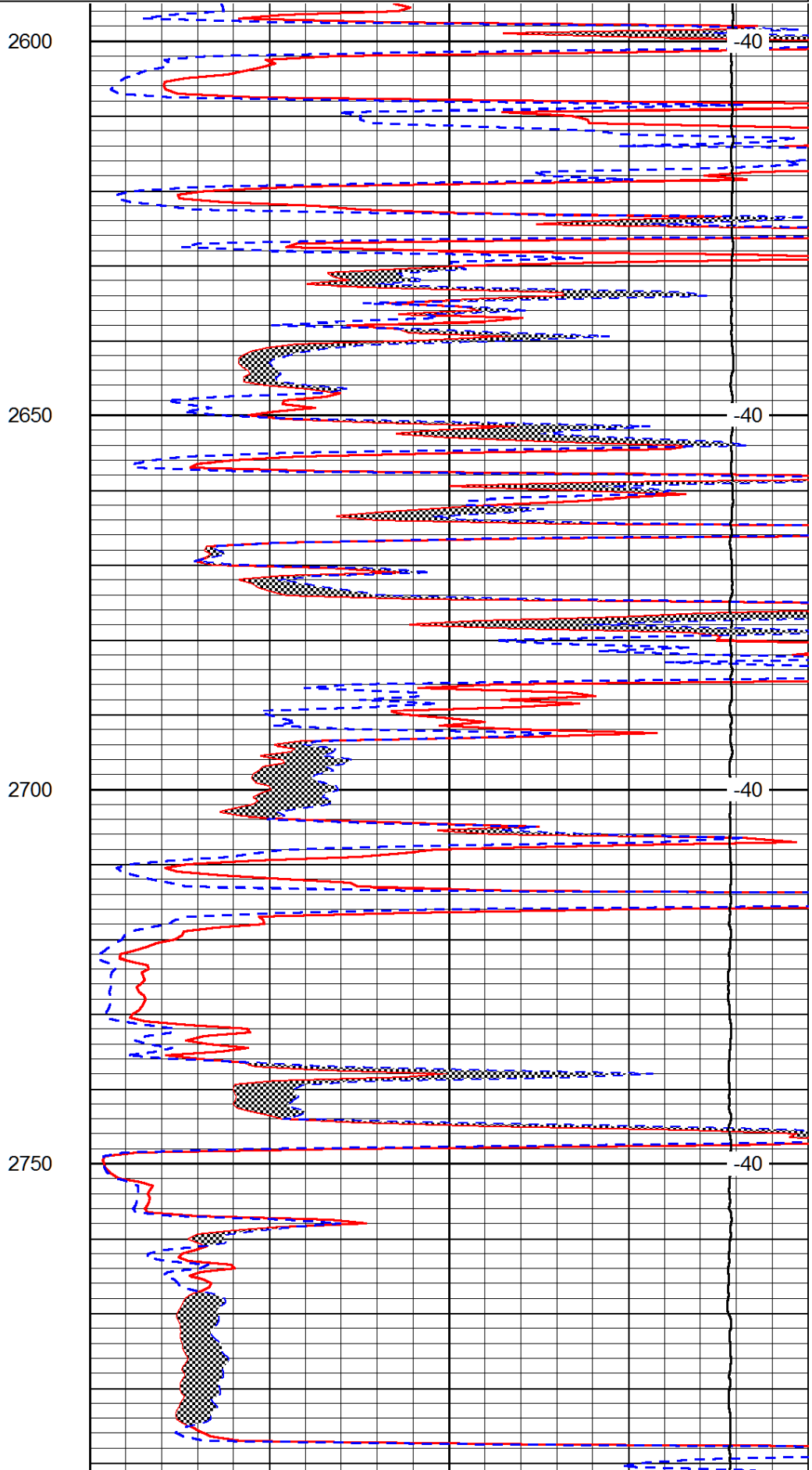
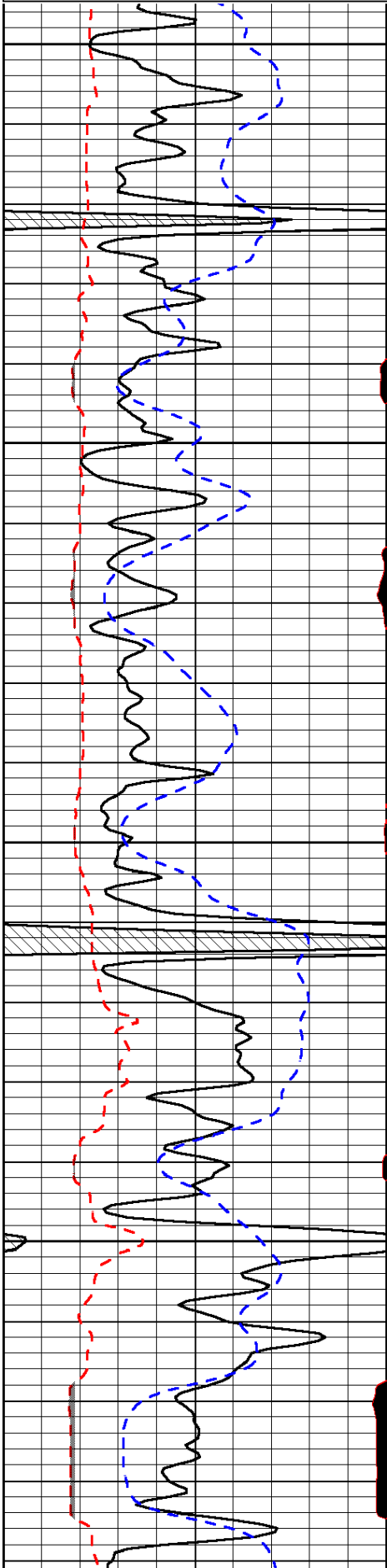
HWY 4 & HWY 14
1 East, 1 South, 1/2 West, North Into

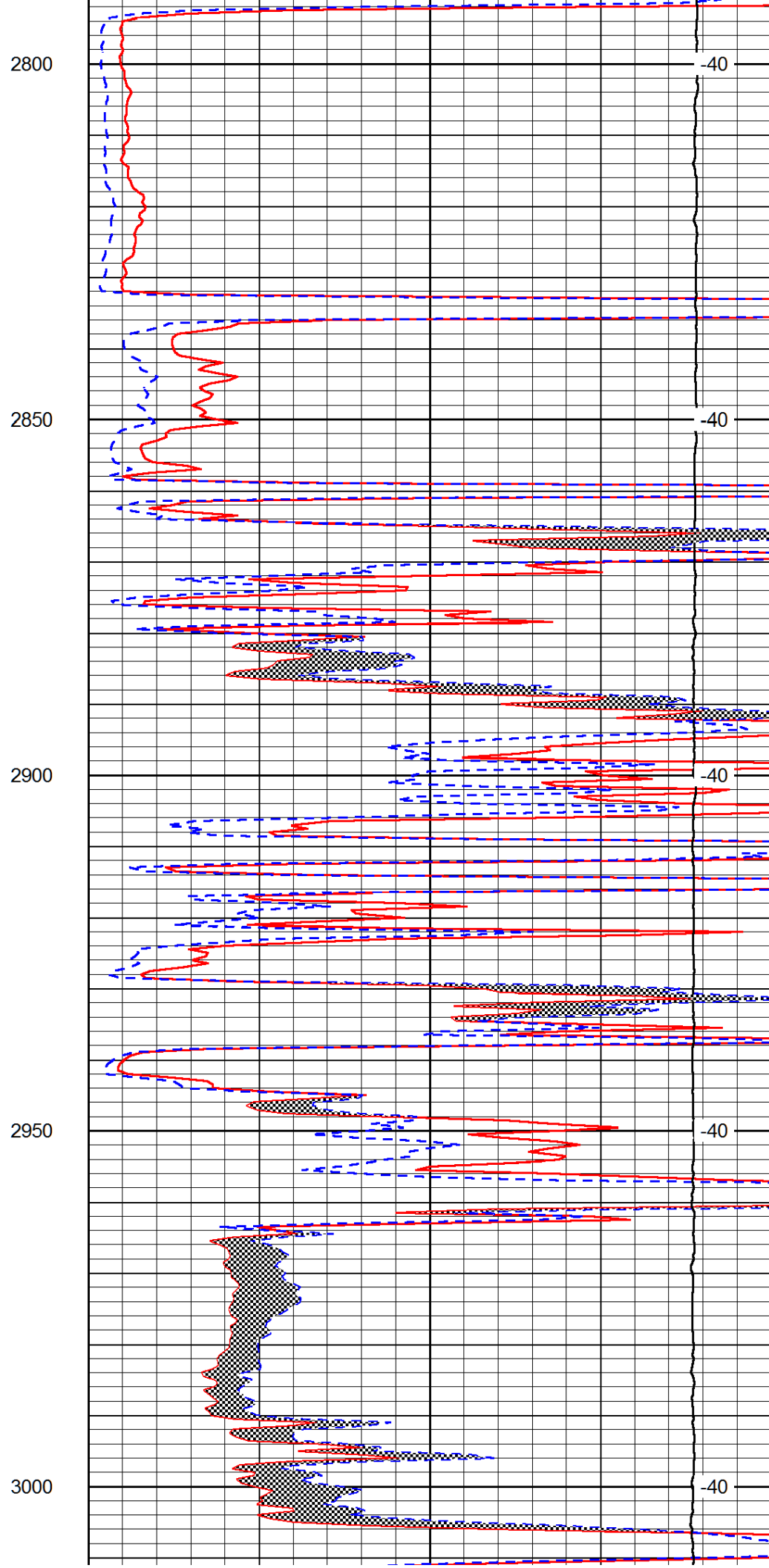
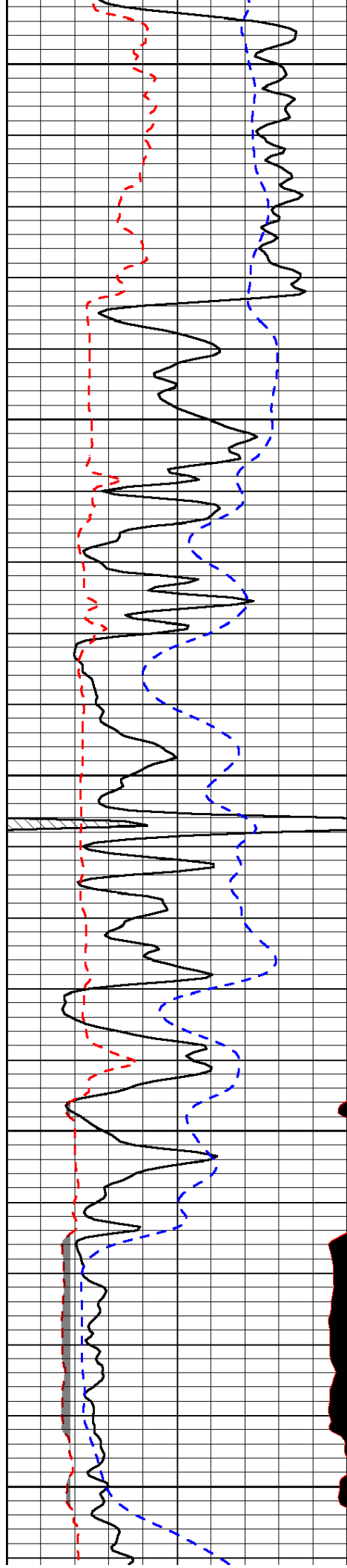
Database File: american_warrior_dorothy_1_3hd.db
Dataset Pathname: DIL/awstk
Presentation Format: micro
Dataset Creation: Tue Nov 04 21:18:35 2014
Charted by: Depth in Feet scaled 1:240

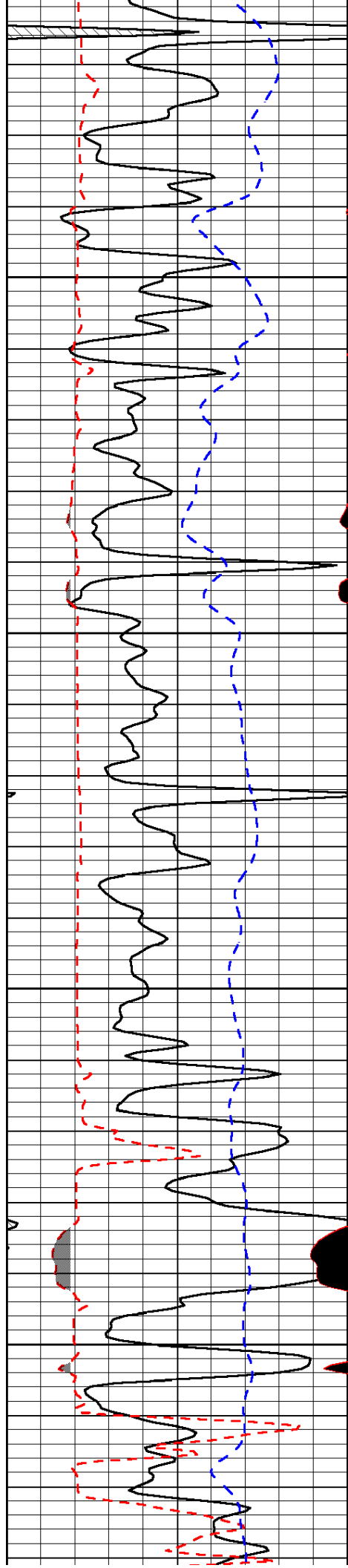
0	Gamma Ray	150
6	MCAL (GAPI)	16
2.875	Mud Cake (GAPI)	7.875
-200	SP (mV)	0

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

LSPD





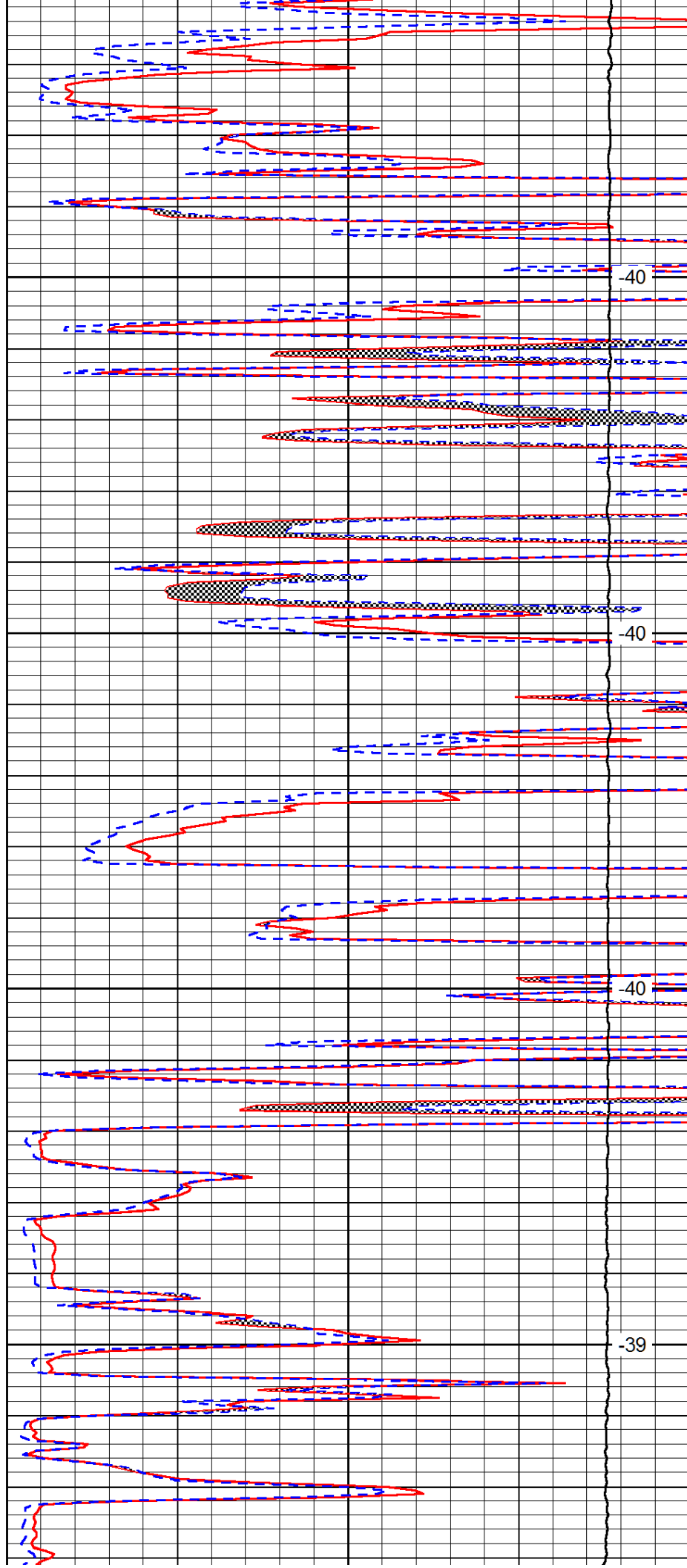


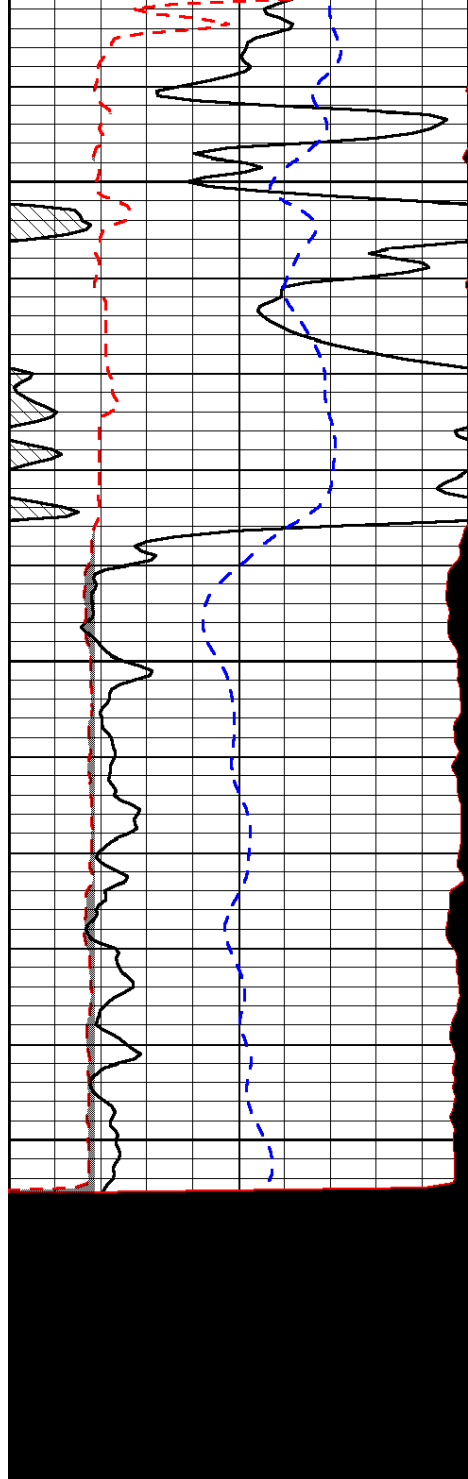
3050

3100

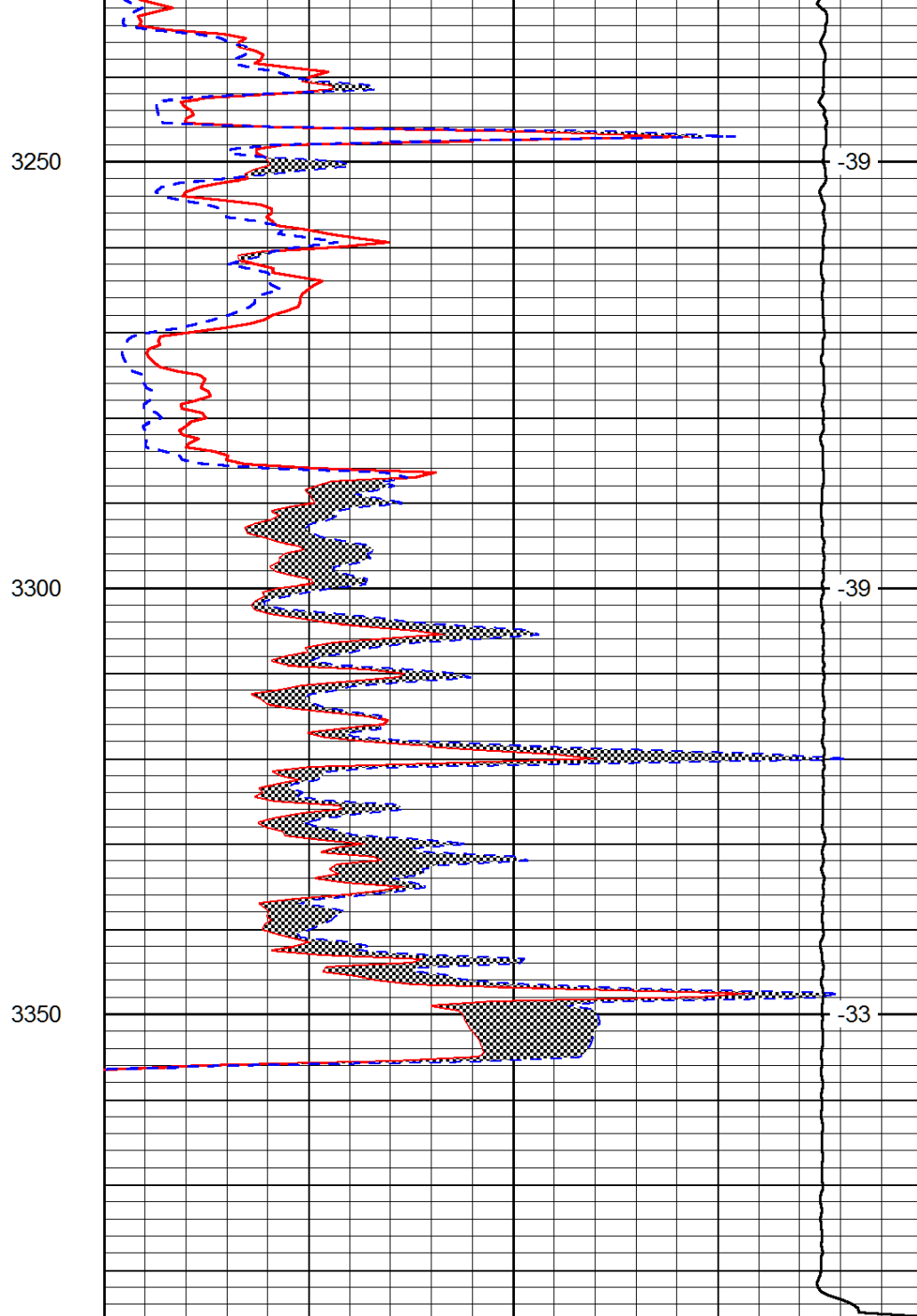
3150

3200





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