



Microresistivity Log

Pioneer Energy Services

API No.

15-159-22,739-00-00

Company American Warrior, Inc.

Well Buckley-Doll No.2-18 restake

Field Chase-Silica

County Rice State Kansas

Location SE SE SW NW
2635' FNL & 1187' FWL

Sec: 18 Twp: 19S Rge: 9W

Permanent Datum Ground Level Elevation 1740

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

Drilling Measured From Kelly Bushing

Date 5/22/2013

Run Number Two

Depth Driller 3400

Depth Logger 3402

Bottom Logged Interval 3401

Top Log Interval 2600

Casing Driller 8.625 @ 345

Casing Logger 341

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity,ppm CL 5,100

Density / Viscosity 9.3 46

pH / Fluid Loss 11.0 8.8

Source of Sample Flowline

Rm @ Meas. Temp .34 @ 66

Other Services
CNL/CDL
DIL

Elevation
K.B. 1748
D.F. 1740
G.L. 1740

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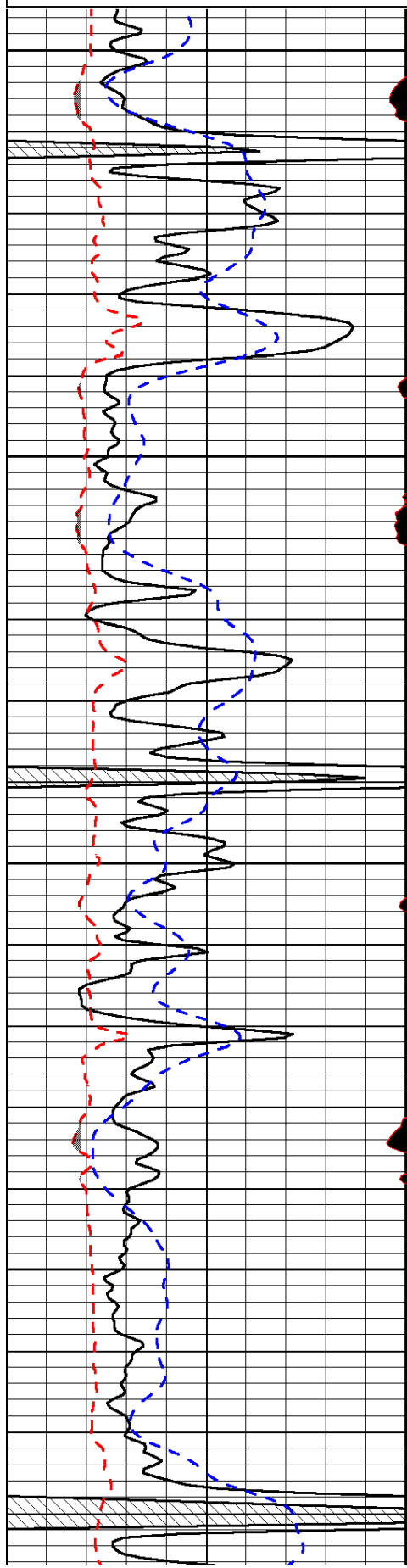
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

Chase KS, 2 N,
1 W, 5/8 N, E Into at Tank Batt

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



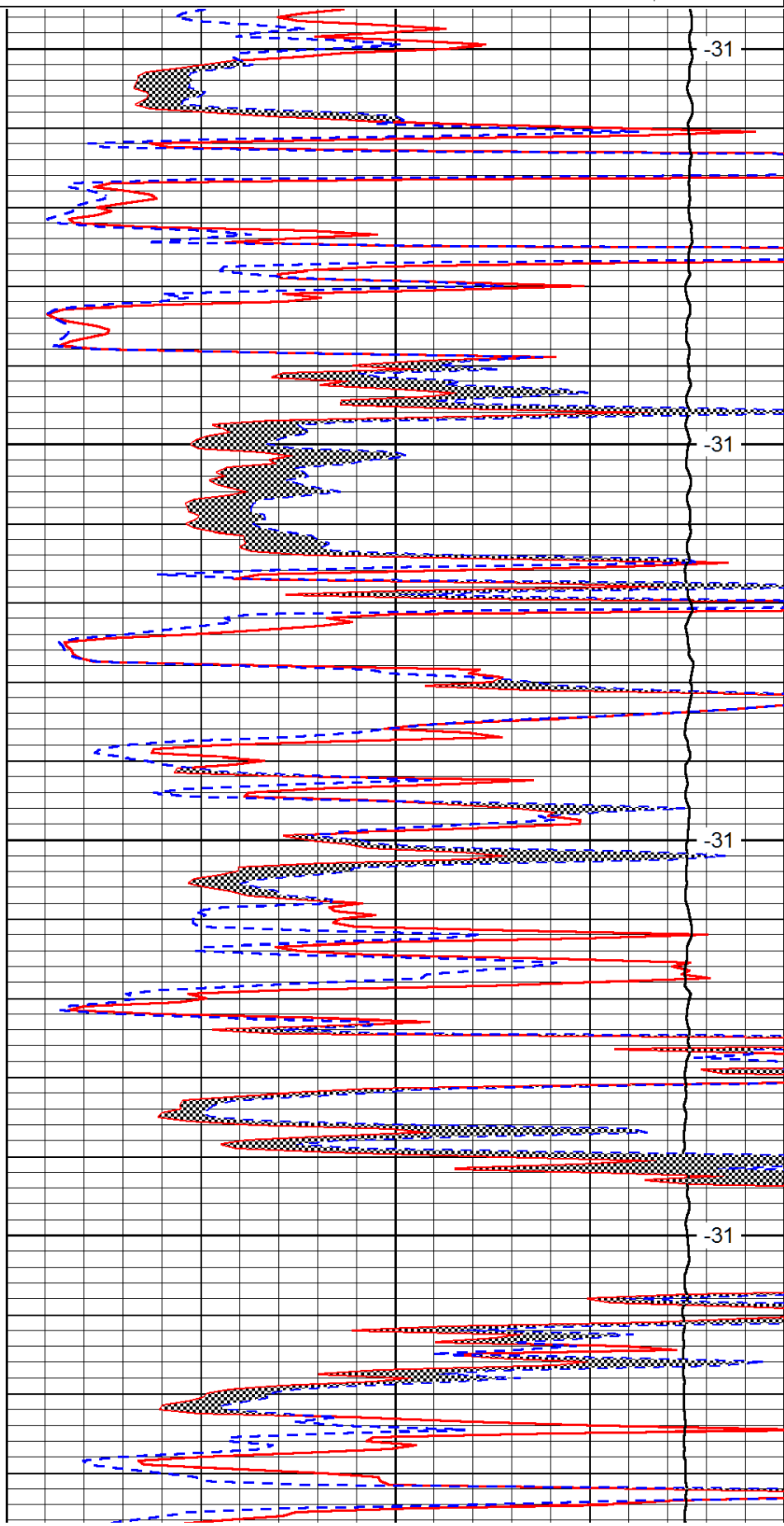
2600

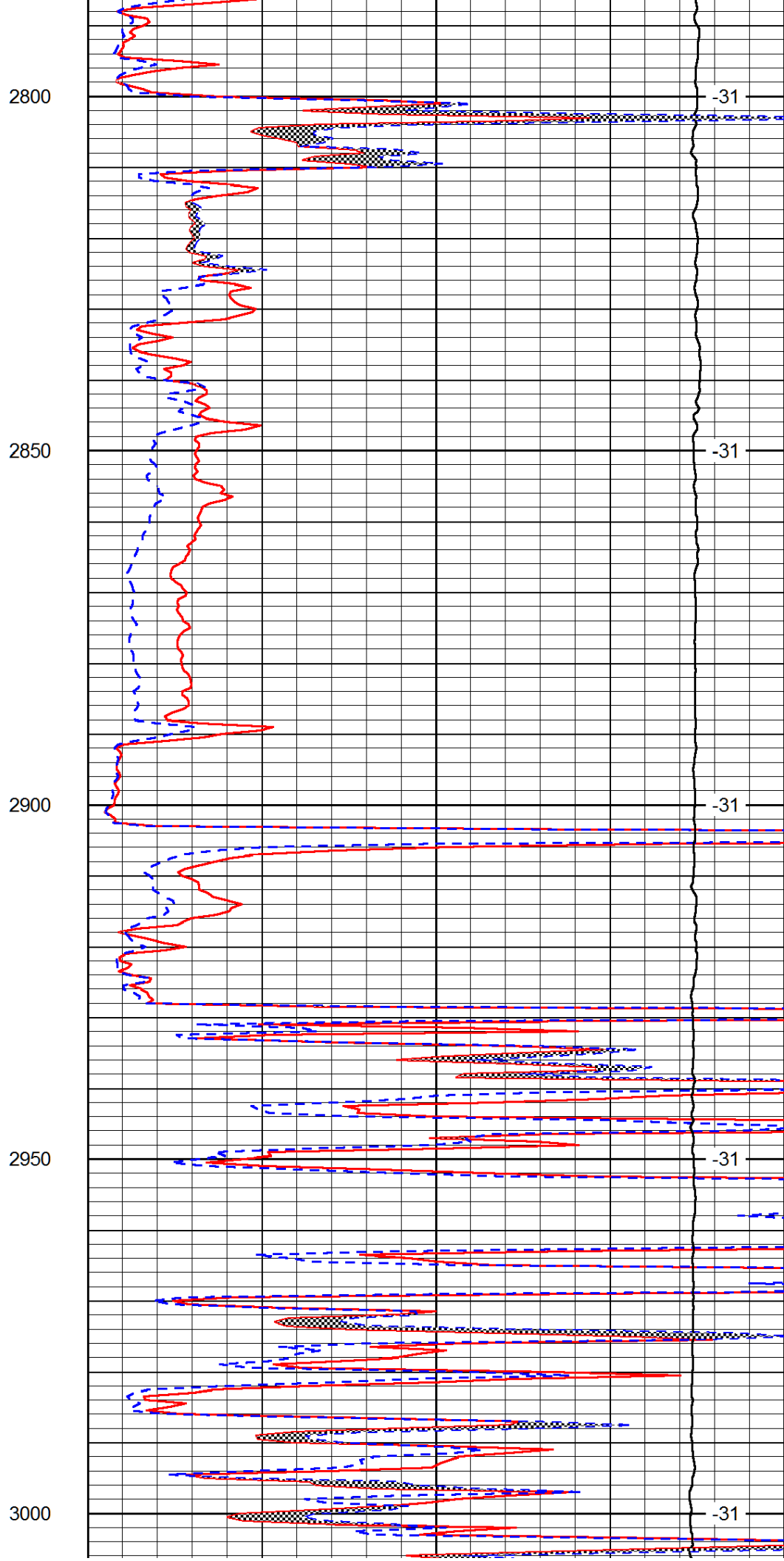
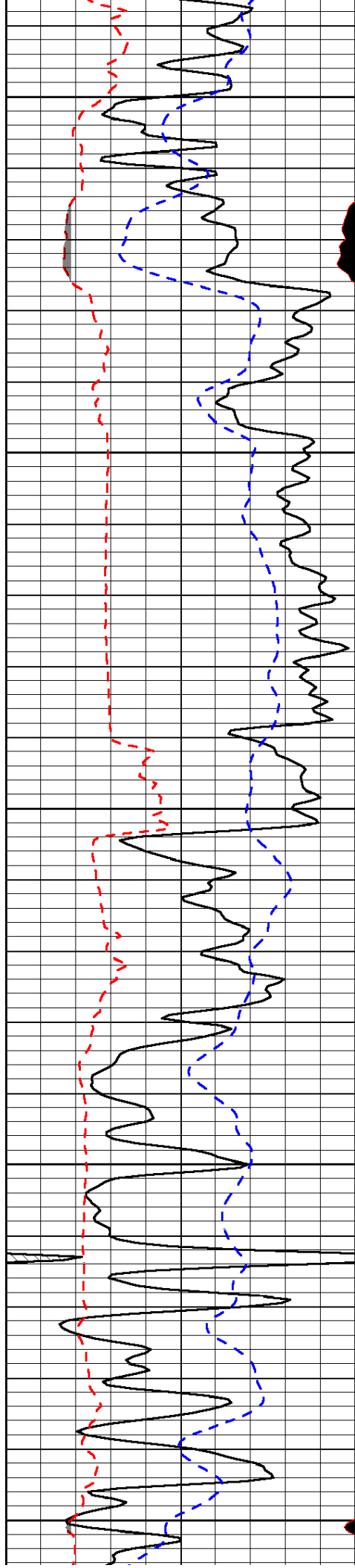
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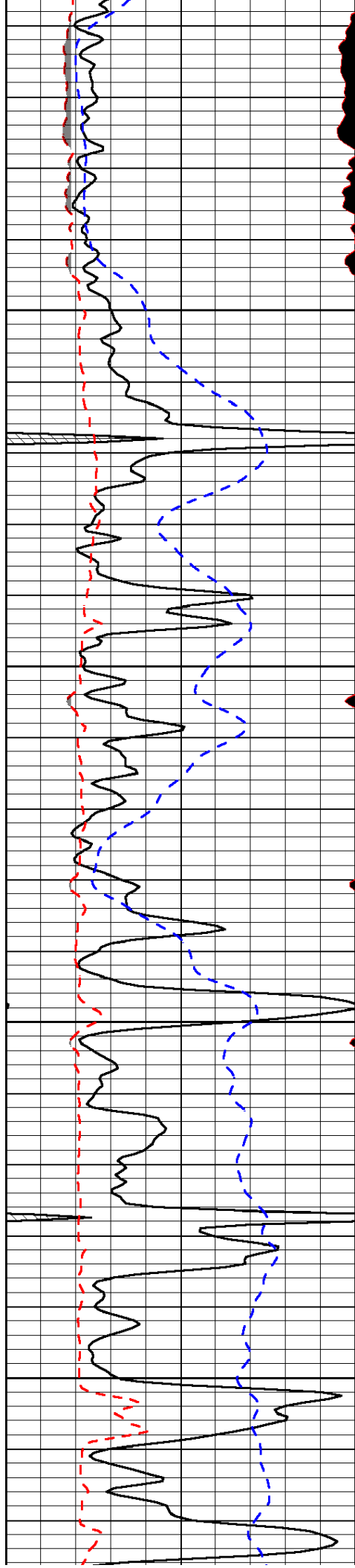
2700

2750

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





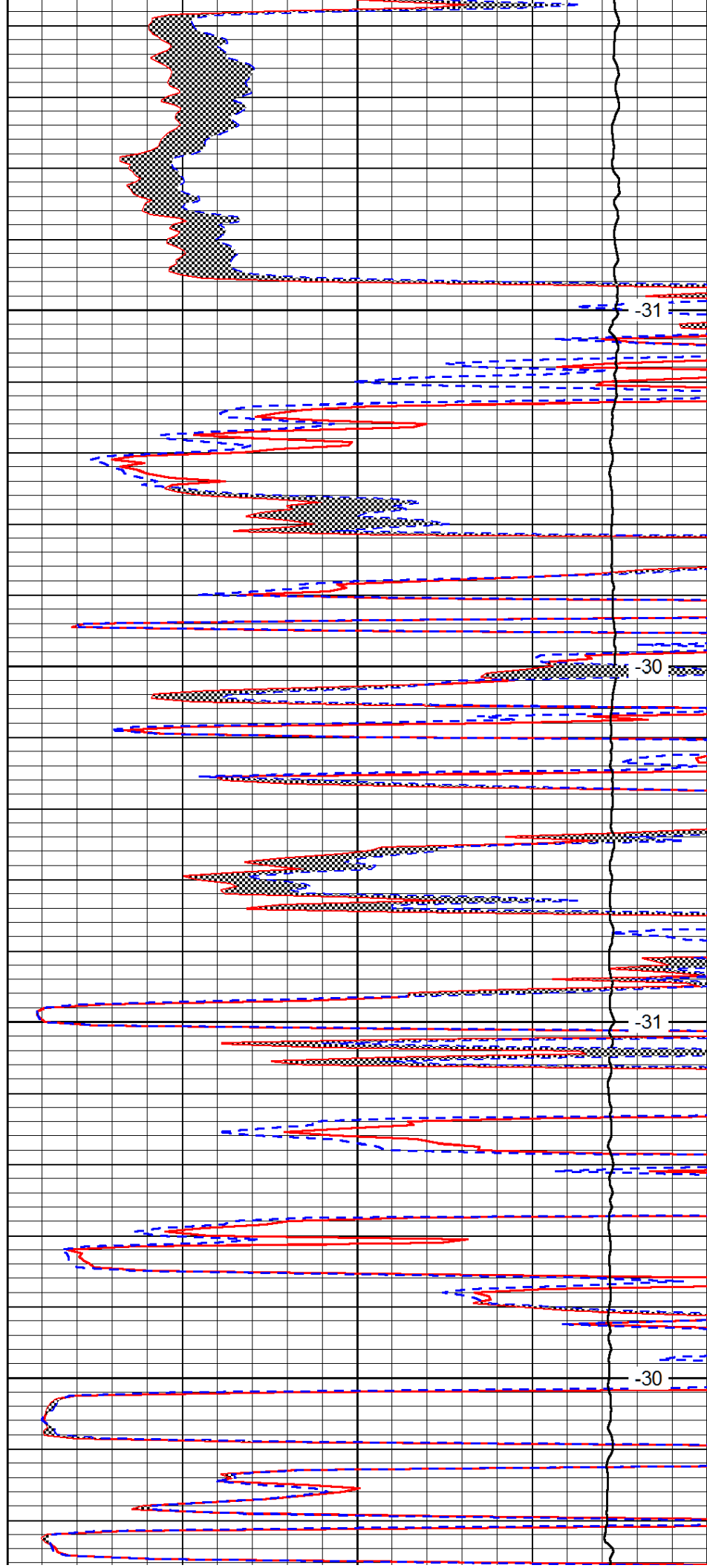


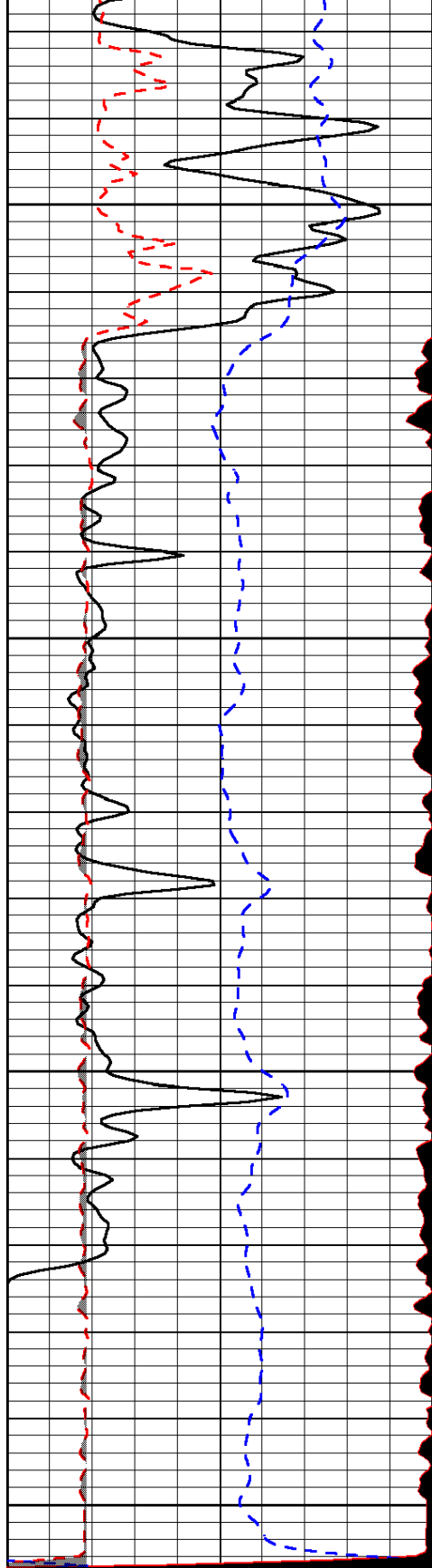
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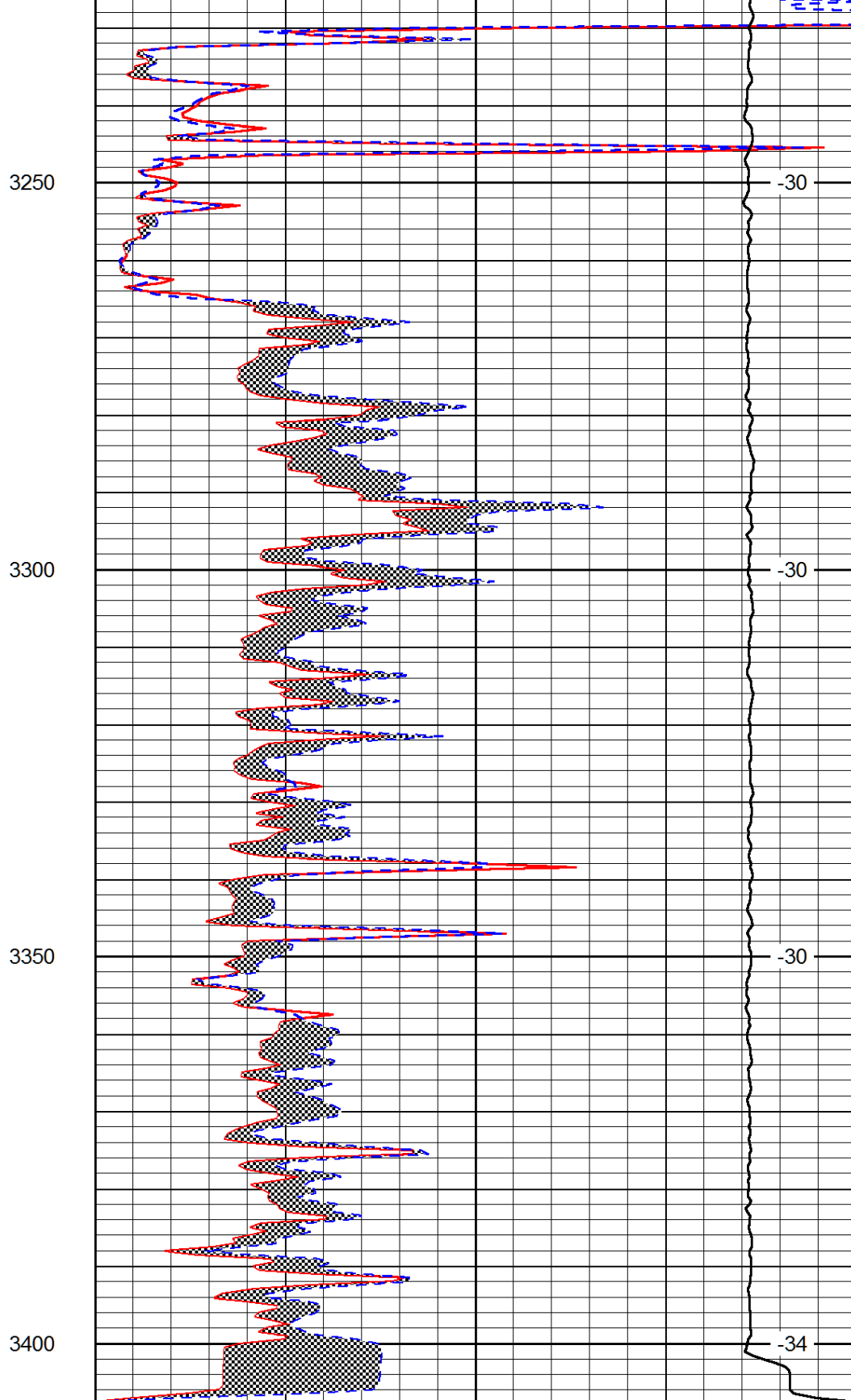
3150

3200





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



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

LSPD
(ft/min)