



Microresistivity Log

DIGITAL LOG (785) 625-3858

API No.

15-167-23,764-00-00

Company JAG Operations, Inc.

Well Haines No. 1

Field Gorham

County Russell State Kansas

Location 1585' FNL & 1445' FEL

Sec: 25 Twp: 13 S Rge: 15 W

Other Services
CNL/CDL
DIL/BHCS

Elevation

Permanent Datum Ground Level Elevation 1871
Log Measured From Kelly Bushing 10 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

K.B. 1881
D.F. 1871
G.L. 1871

Date 2/13/2012

Run Number Two

Depth Driller 3390

Depth Logger 3390

Bottom Logged Interval 3389

Top Log Interval 2400

Casing Driller 8.625 @ 220

Casing Logger 221

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 5.000

Density / Viscosity 9.2 48

pH / Fluid Loss 9.5 8.8

Source of Sample Flowline

Rm @ Meas. Temp .85 @ 55

Rmf @ Meas. Temp .64 @ 55

Rmc @ Meas. Temp 1.15 @ 55

Source of Rmf / Rmc Charts

Rm @ BHT .42 @ 112

Operating Rig Time 4 1/2 Hours

Max Rec. Temp. F 112

Equipment Number 91

Location Hays

Recorded By K. Bange

Witnessed By Mike Bair

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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.

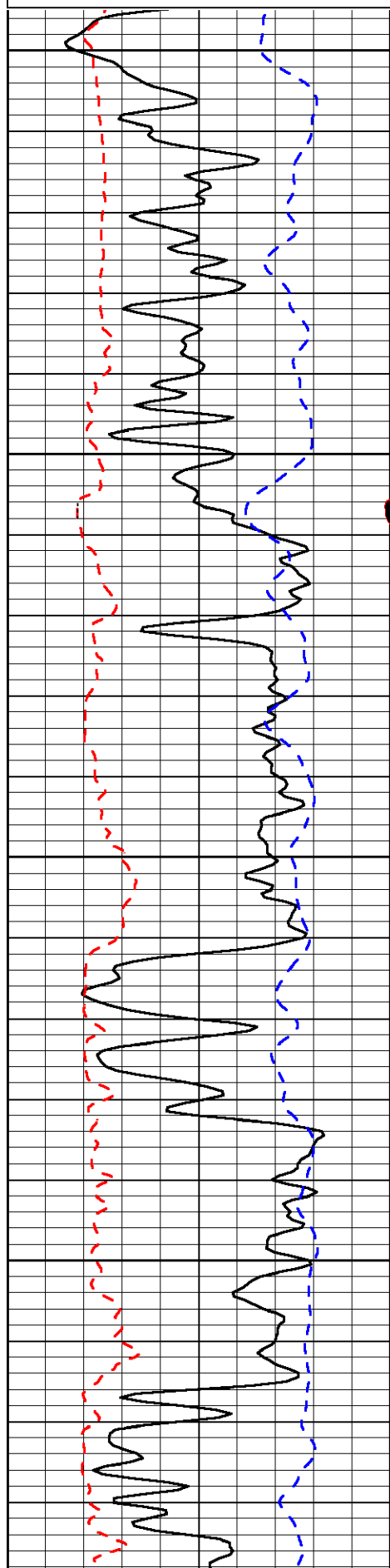
Comments

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

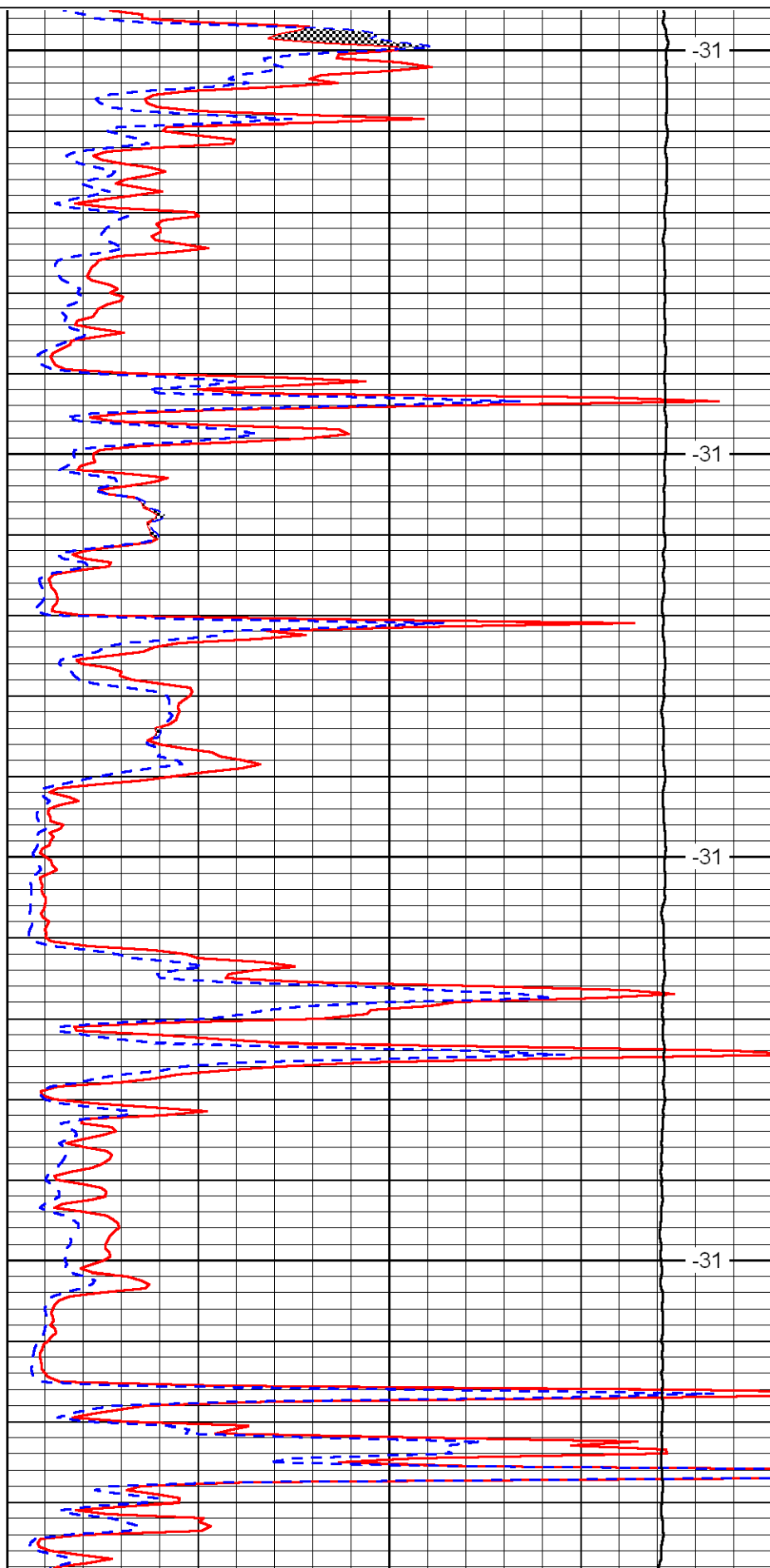
I-70 and Balta rd exit,
3 N to 15th st, 1/2 W,
S into

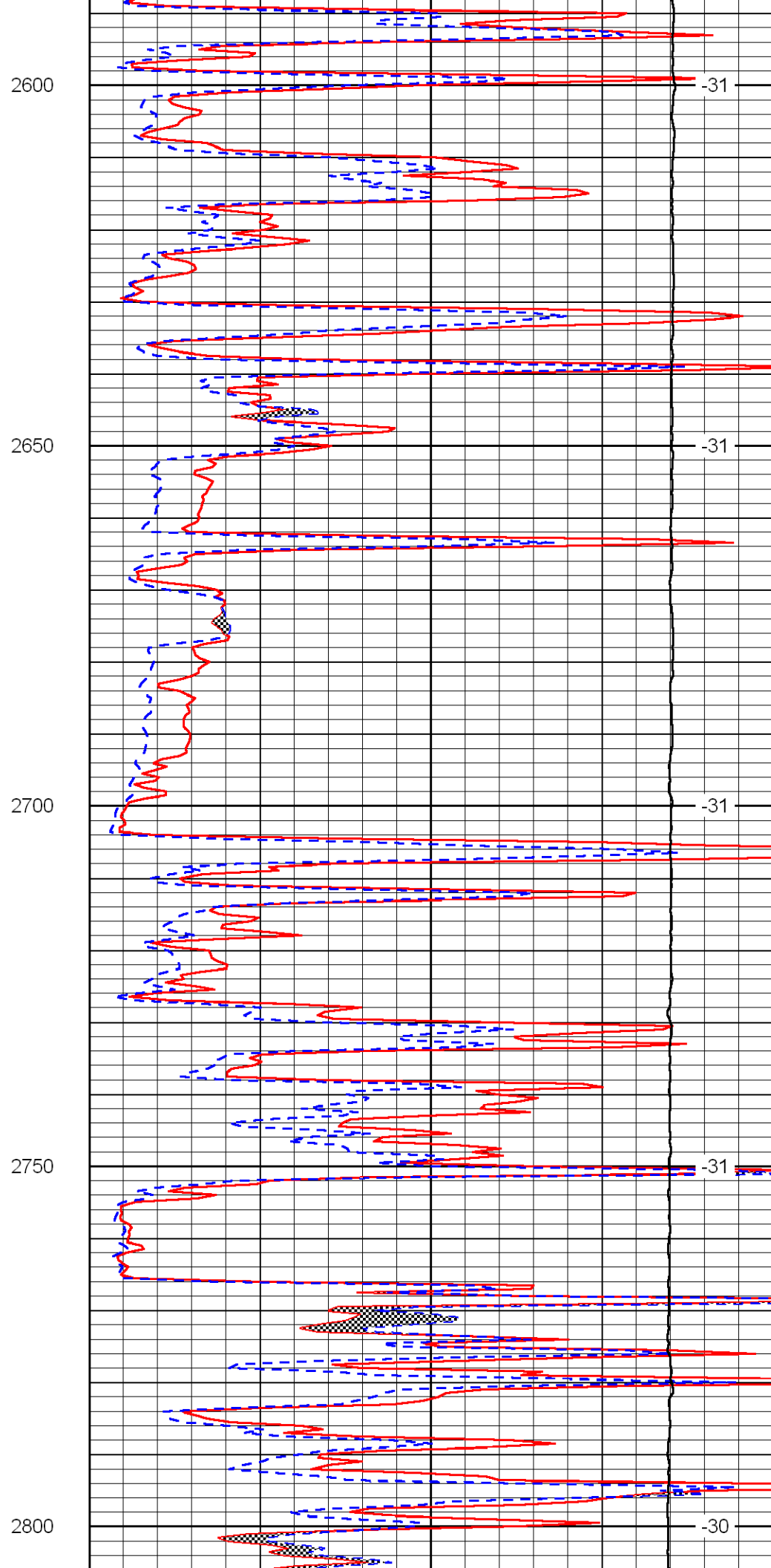
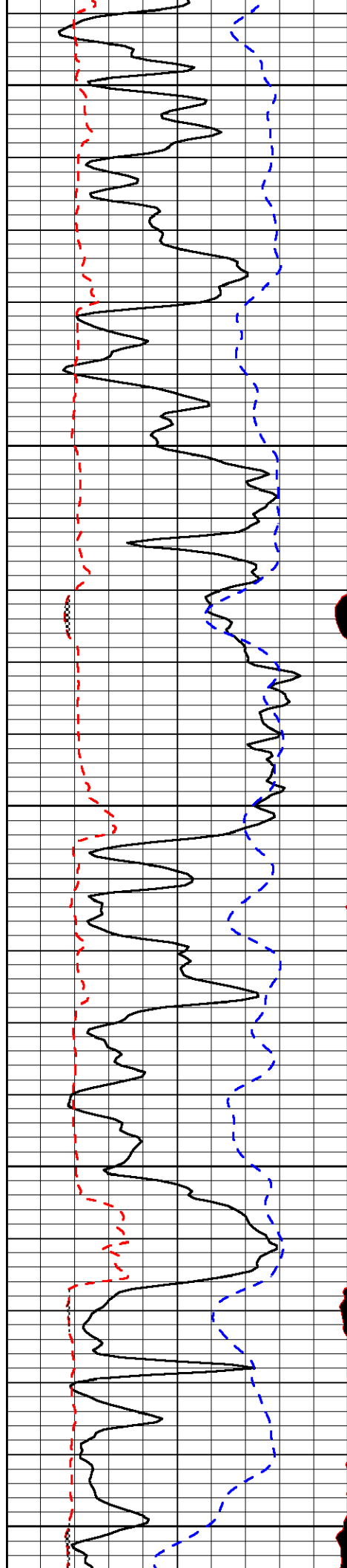
Database File: jag021312hd.db
Dataset Pathname: dil/jagstack
Presentation Format: micro
Dataset Creation: Mon Feb 13 21:09:50 2012
Charted by: Depth in Feet scaled 1:240

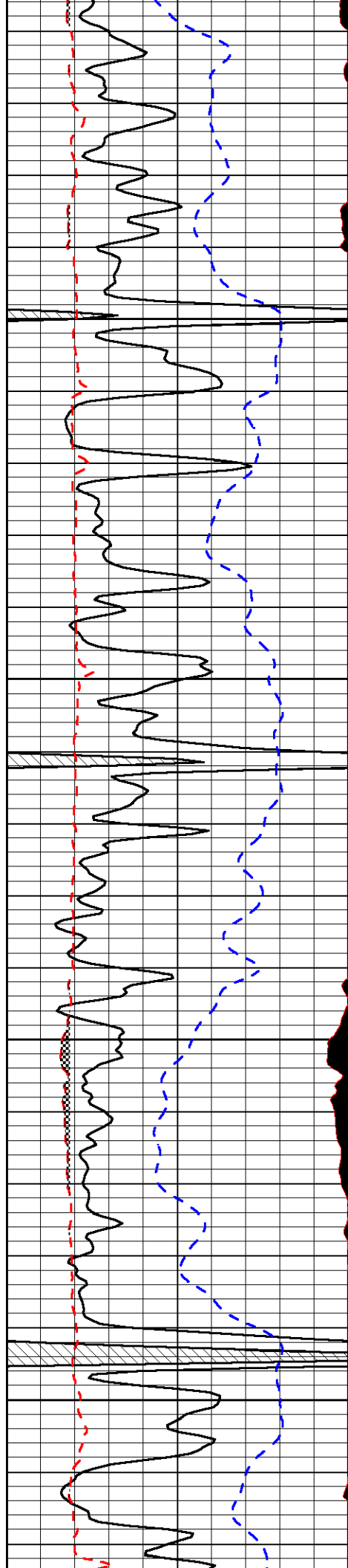
0	Gamma Ray	150
6	MCAL (GAPI)	16
2.875	Mud Cake (GAPI)	7.875
-200	SP	0



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





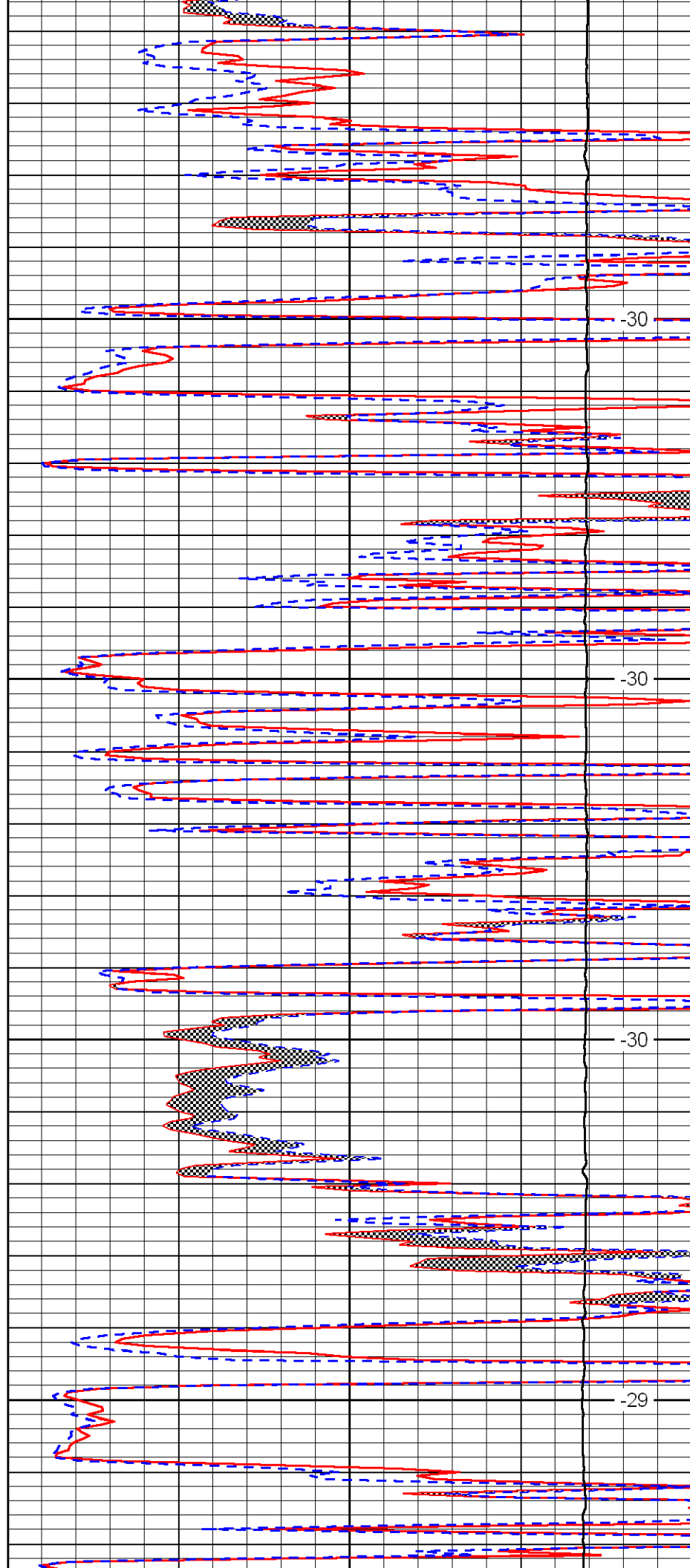


2850

2900

2950

3000

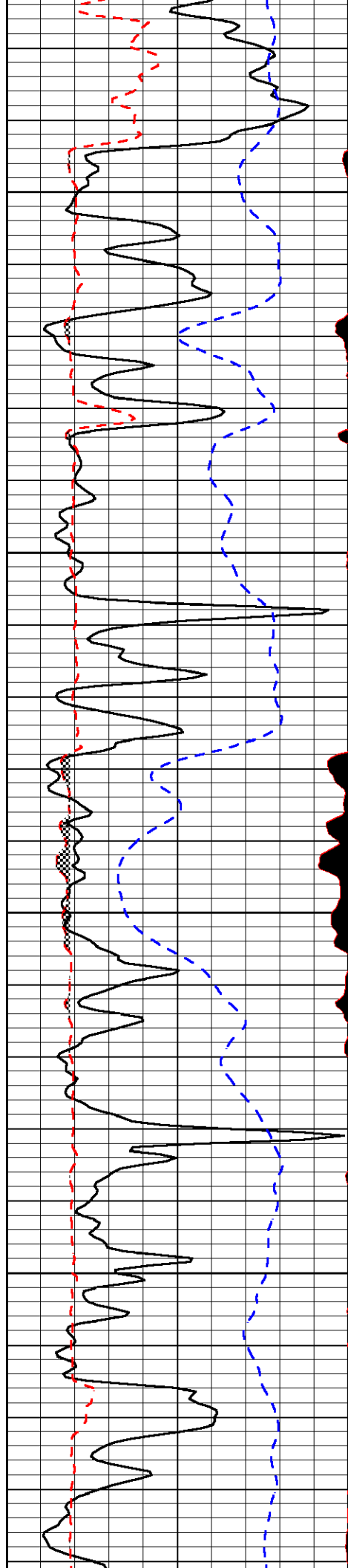


-30

-30

-30

-29

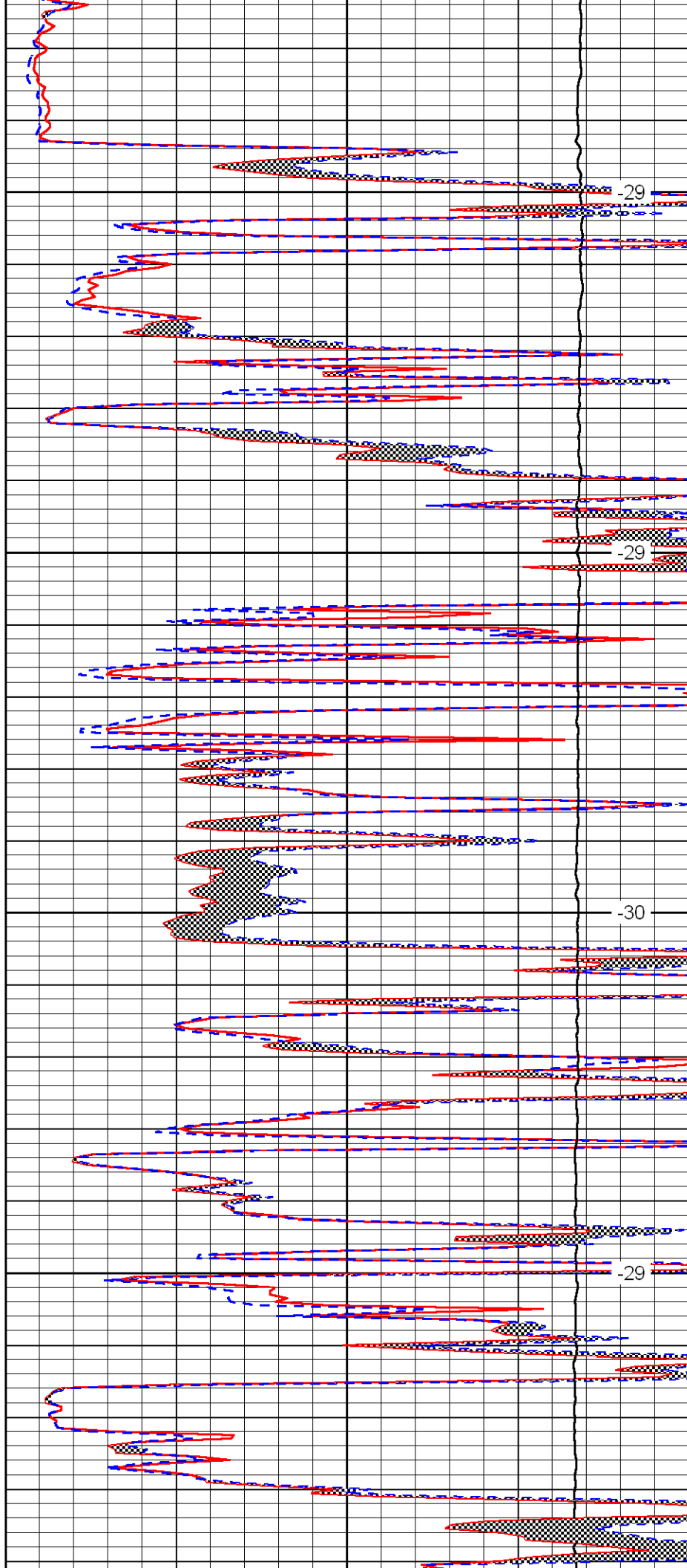


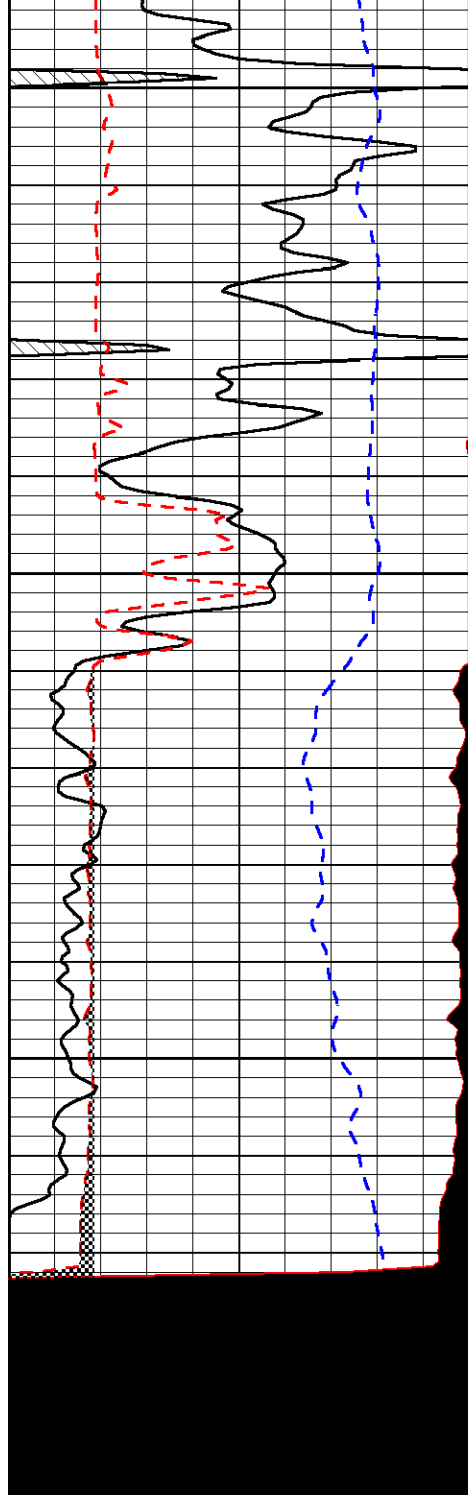
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3100

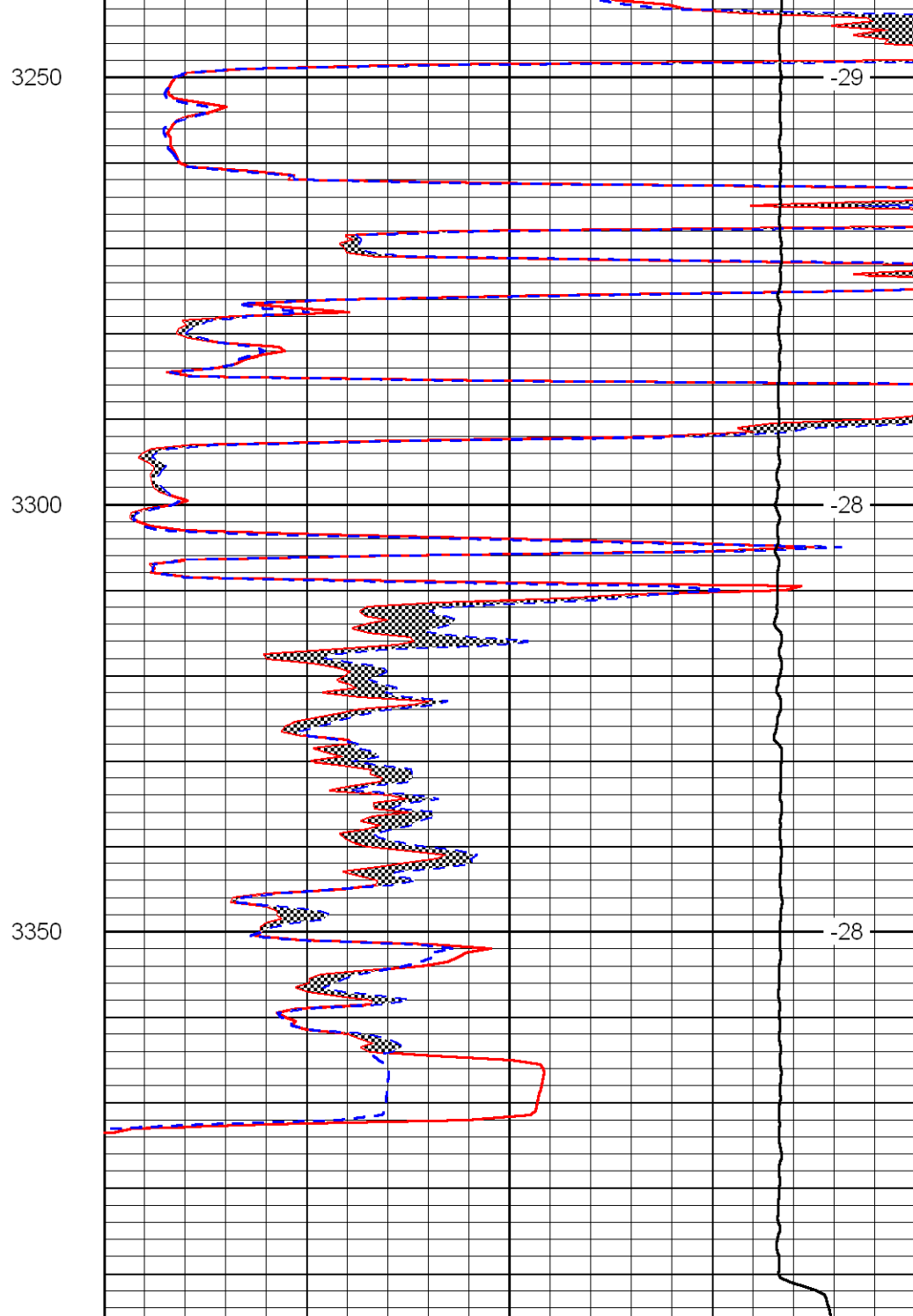
3150

3200





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6	MCAL (GAPI)	16
2.875	Mud Cake (GAPI)	7.875
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0	Micro Normal 2''	40
10000	Line Weight	0
		LSPD