



Pioneer Energy Services

# Microresistivity Log

15-065-23999-00-00

API No.

Company Ron's Oil Operations, Inc.

Well Keith #14-1

Field Railroad Southeast

County Graham State Kansas

Location 745' FNL & 615' FEL

Other Services  
CNL/CDL  
DIL

Sec: 14 Twp: 8S Rge: 22W

Permanent Datum Ground Level Elevation 2094

Log Measured From Kelly Bushing 5 Ft. Above Perm. Datum

Elevation  
K.B. 2099  
D.F.  
G.L. 2094

Drilling Measured From Kelly Bushing

Date 1/7/2014

Run Number Two

Depth Driller 3680

Depth Logger 3683

Bottom Logged Interval 3682

Top Log Interval 2900

Casing Driller 8.625 @ 210

Casing Logger 216

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 2500

Density / Viscosity 9.5 50

pH / Fluid Loss 10.0 8.4

Source of Sample Flowline

Rm @ Meas. Temp 0.90 @ 30

Rmf @ Meas. Temp 0.68 @ 30

Rmc @ Meas. Temp 1.22 @ 30

Source of Rmf / Rmc Charts

Rm @ BHT 0.24 @ 115

Operating Rig Time 4 Hours

Max Rec. Temp. F 115

Equipment Number 91

Location Hays

Recorded By D. Schmidt

Witnessed By Chris Bean

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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

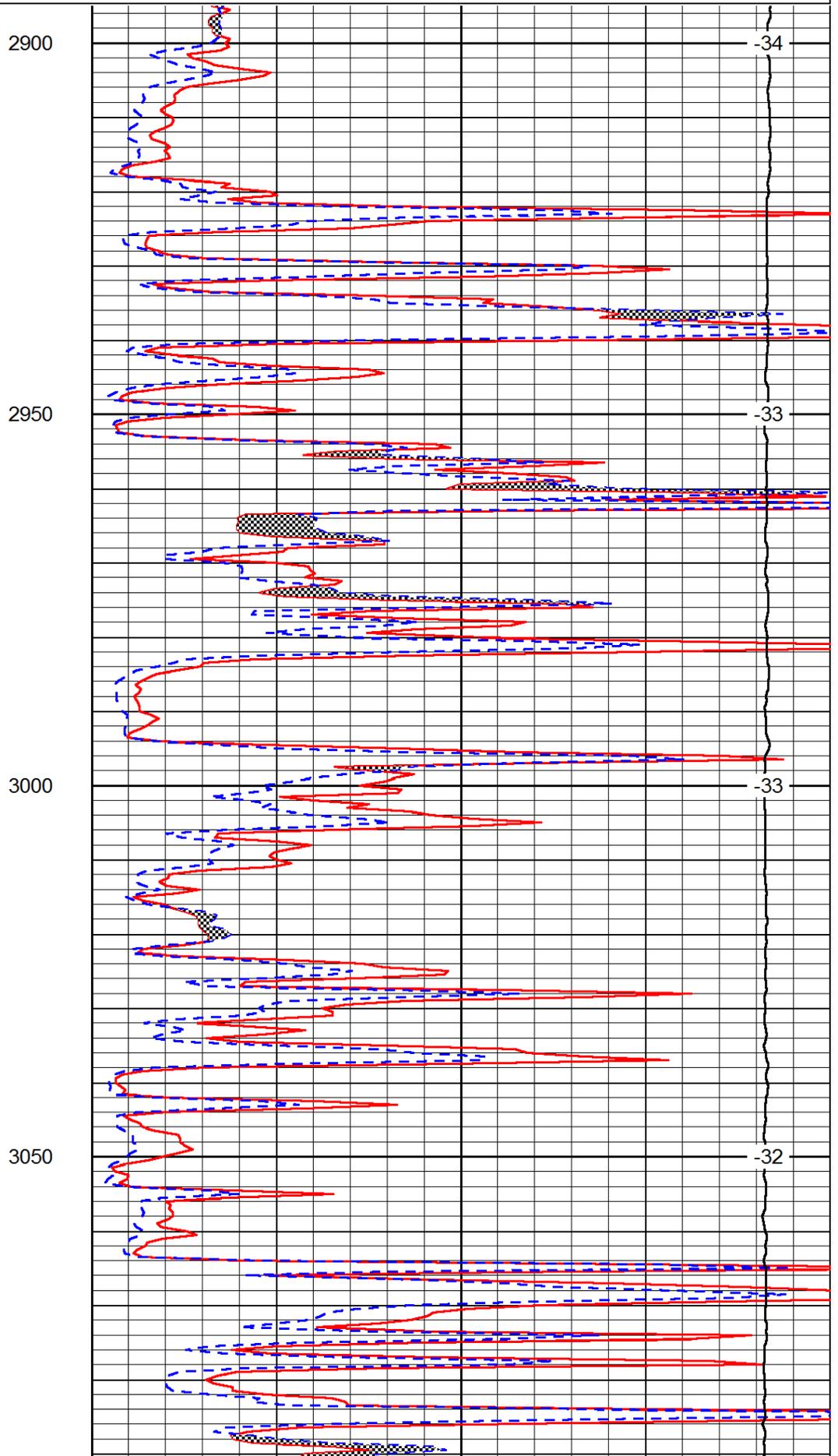
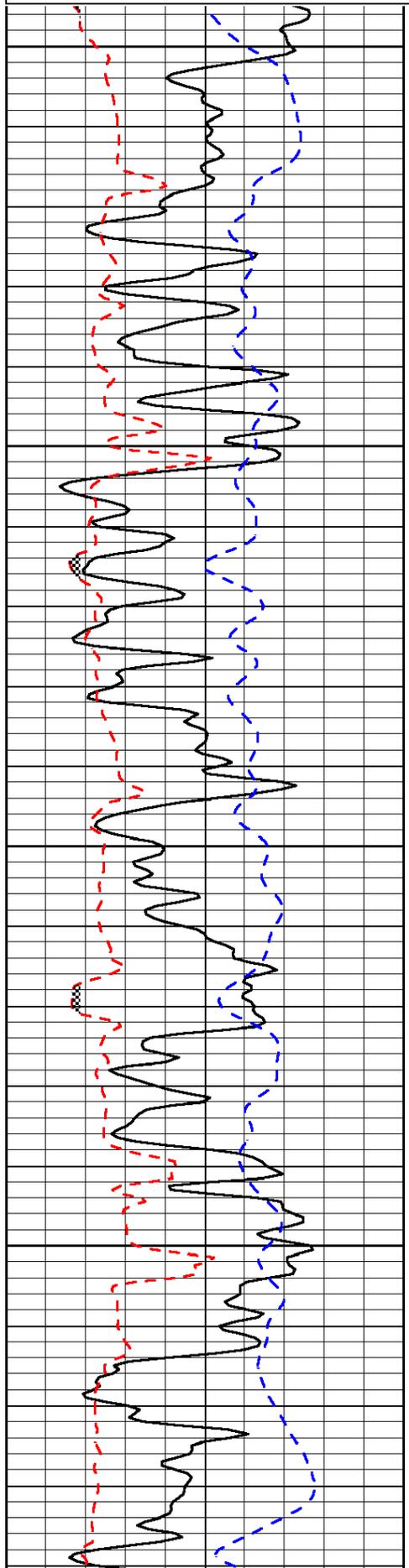
Thank you for using Pioneer Energy Services  
[www.pioneerenergy.com](http://www.pioneerenergy.com)  
 785 625 3858  
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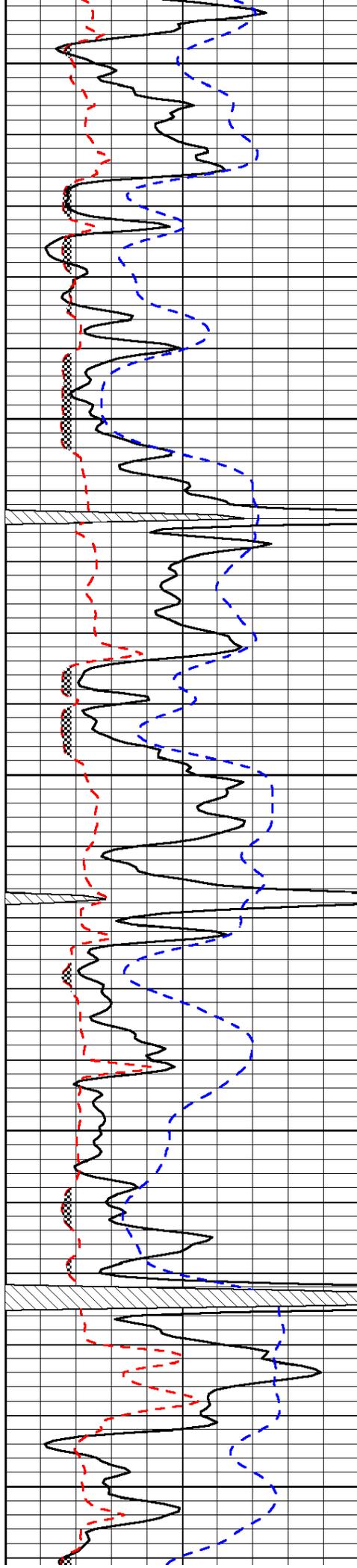
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 Presentation Format: micro  
 Dataset Creation: Tue Jan 07 08:18:09 2014  
 Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150
6	Micro Log Caliper (GAPI)	16
-200	SP (mV)	0

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

LSPD





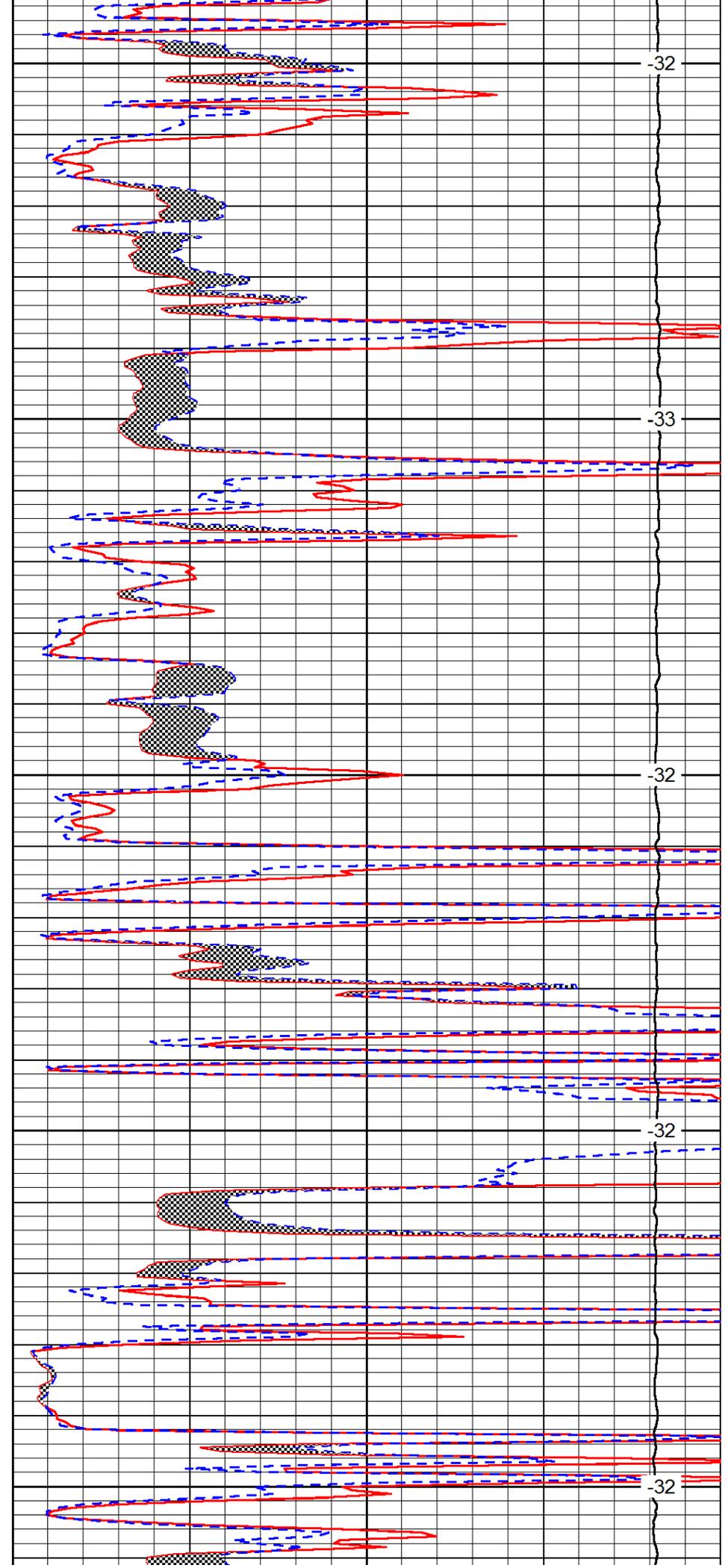
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3150

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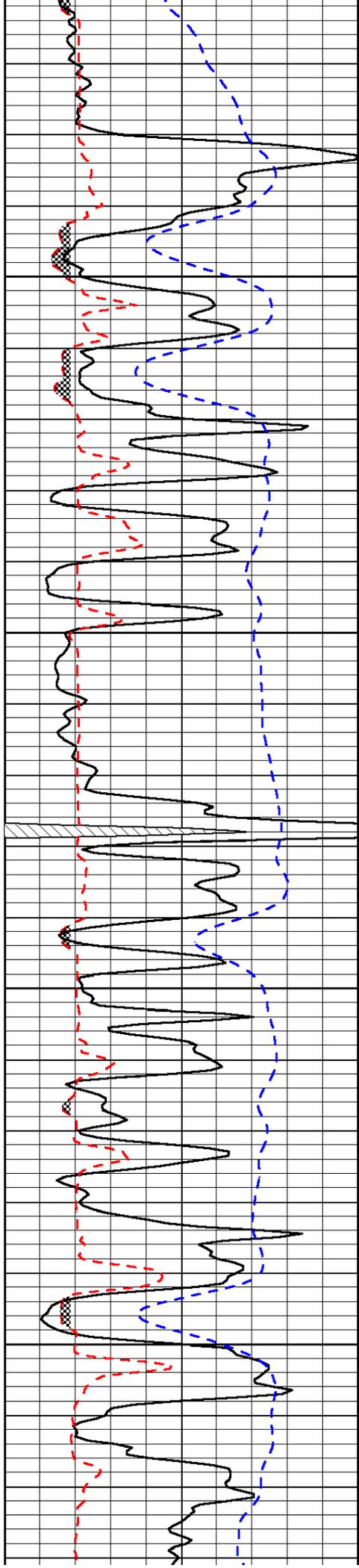
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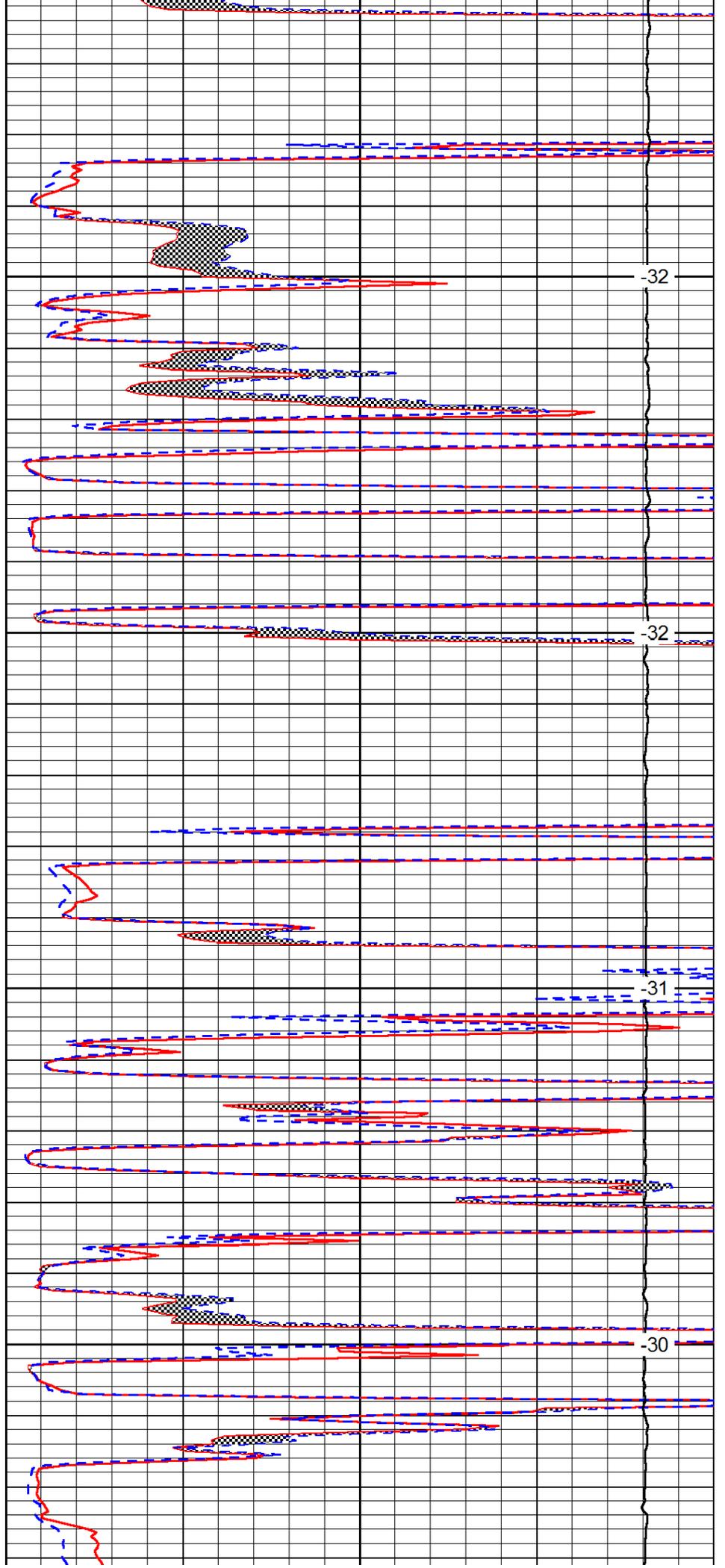


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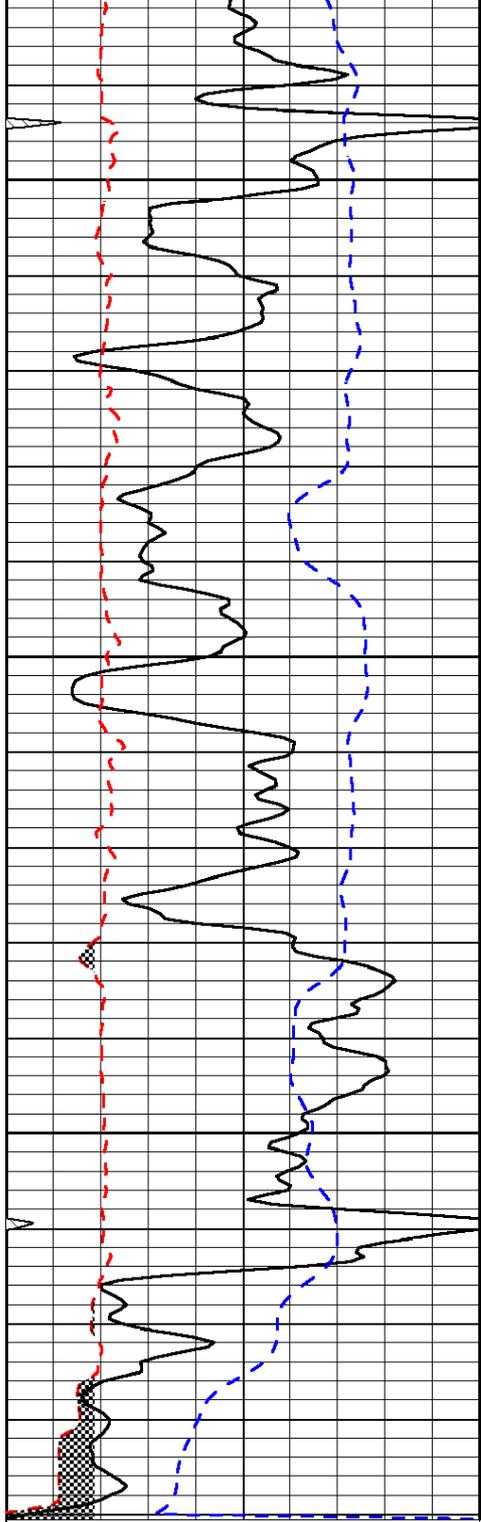


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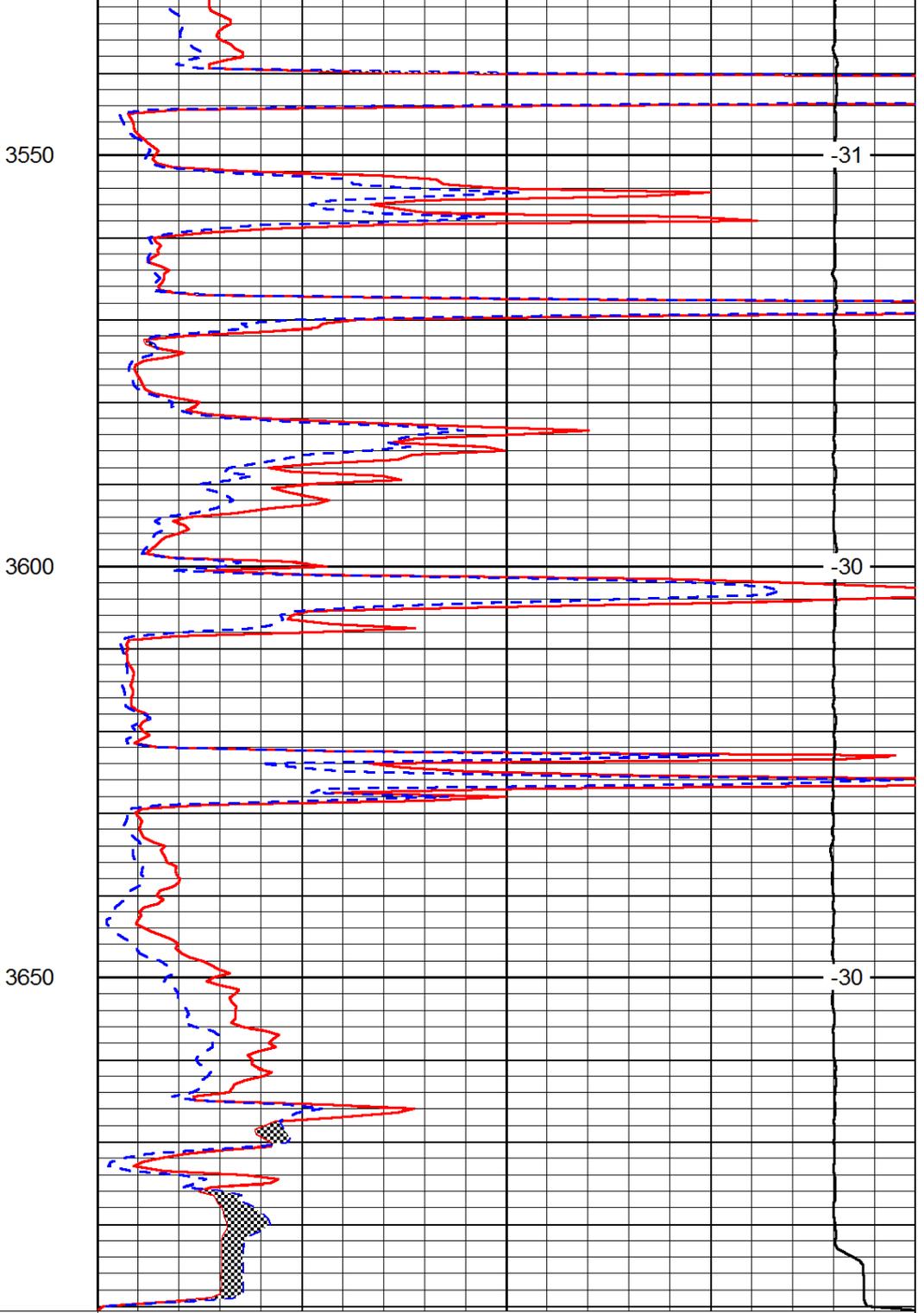
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