



Microresistivity Log

Pioneer Energy Services

API No.

15-051-26,603-00-00

Company Brungardt Oil and Leasing, Inc.

Well C.B. Beery #7

Field Emmeran NE

County Ellis State

Kansas

Location 2140' FNL & 1670' FWL

Sec: 34 Twp: 12S Rge: 16W

Other Services
CNL/CDL
DIL

Permanent Datum Ground Level Elevation 2036
Log Measured From Kelly Bushing 5 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Date 9/13/2013

Run Number Two

Depth Driller 3590

Depth Logger 3589

Bottom Logged Interval 3588

Top Log Interval 2900

Casing Driller 8.625 @ 224

Casing Logger 222

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 6000

Density / Viscosity 9.1 47

pH / Fluid Loss 10.0 8.8

Source of Sample Flowline

Rm @ Meas. Temp 0.40 @ 76

Rmf @ Meas. Temp 0.30 @ 76

Rmc @ Meas. Temp 0.54 @ 76

Source of Rmf / Rmc Charts

Rm @ BHT 0.27 @ 112

Operating Rig Time 4 Hours

Max Rec. Temp. F 112

Equipment Number 15

Location Hays

Recorded By D. Kerr

Witnessed By Bob Hopkins

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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.

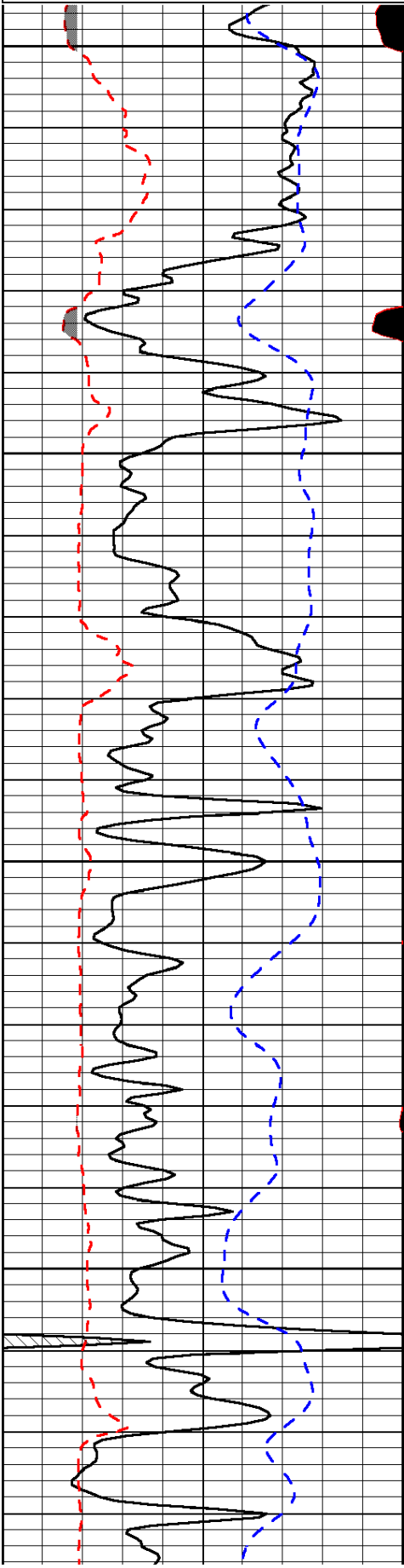
Comments

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

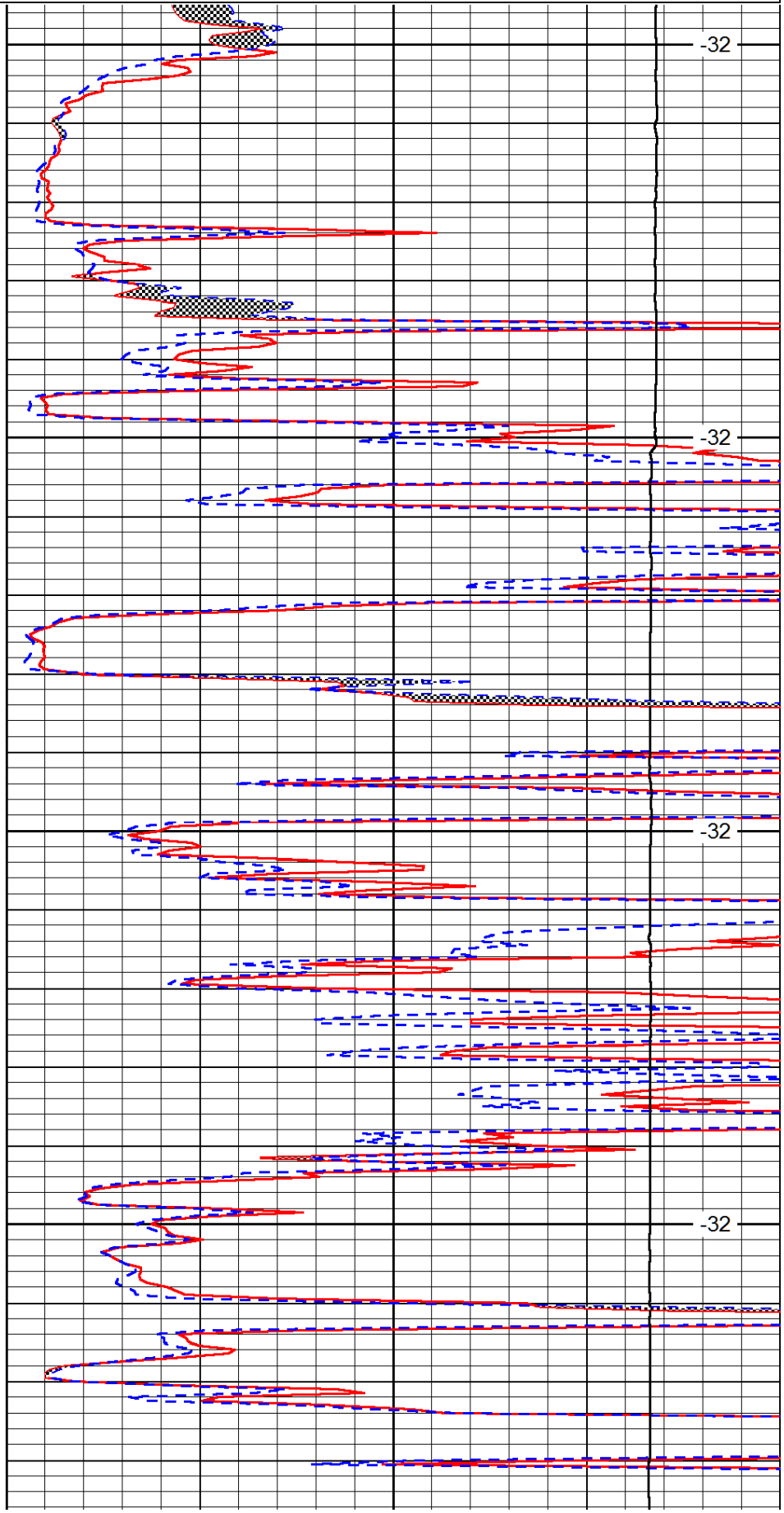
Victoria KS, North to Emmeran RD,
3 3/4 East, North Into

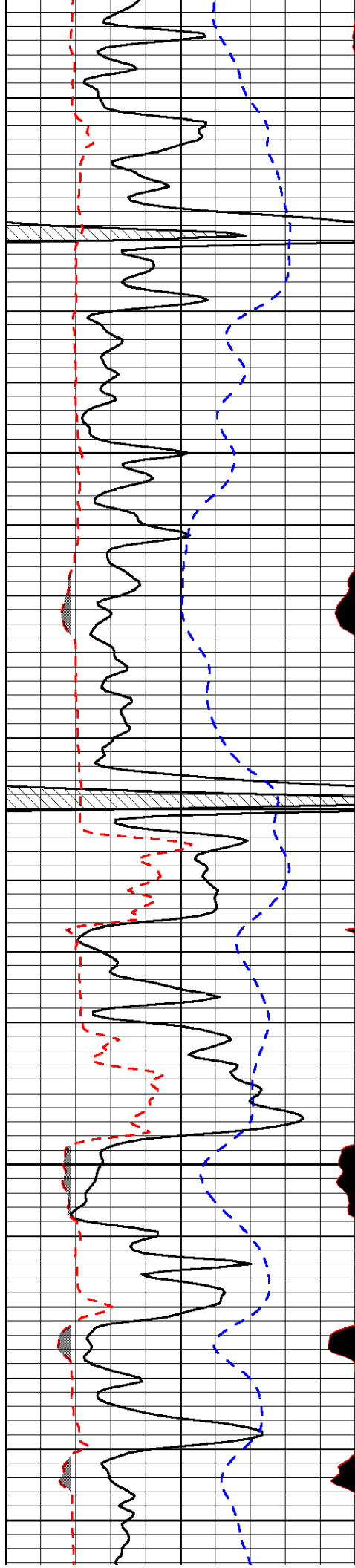
Database File: brungardt_cbbeery_7hd.db
Dataset Pathname: DIL/brungstk
Presentation Format: micro
Dataset Creation: Fri Sep 13 09:01:58 2013
Charted by: Depth in Feet scaled 1:240

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)





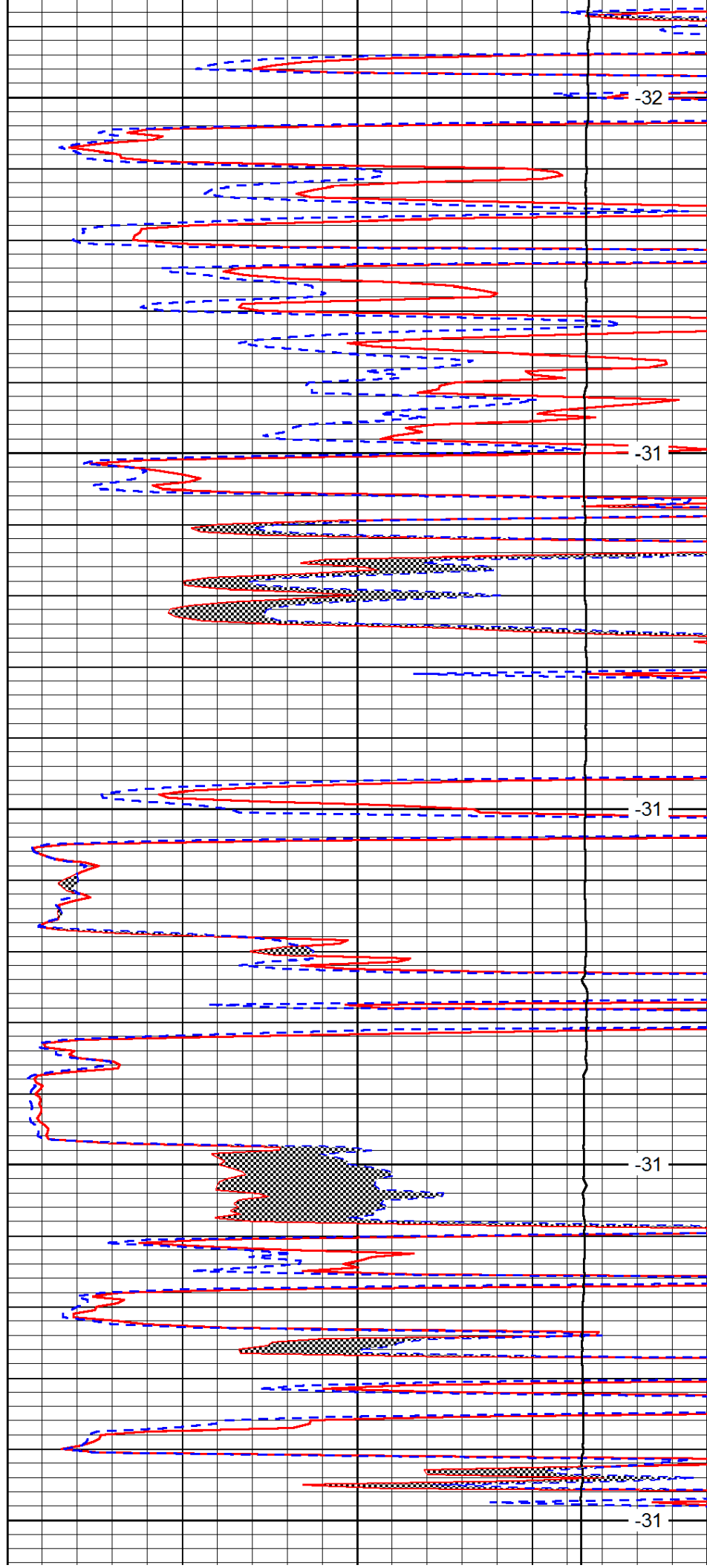
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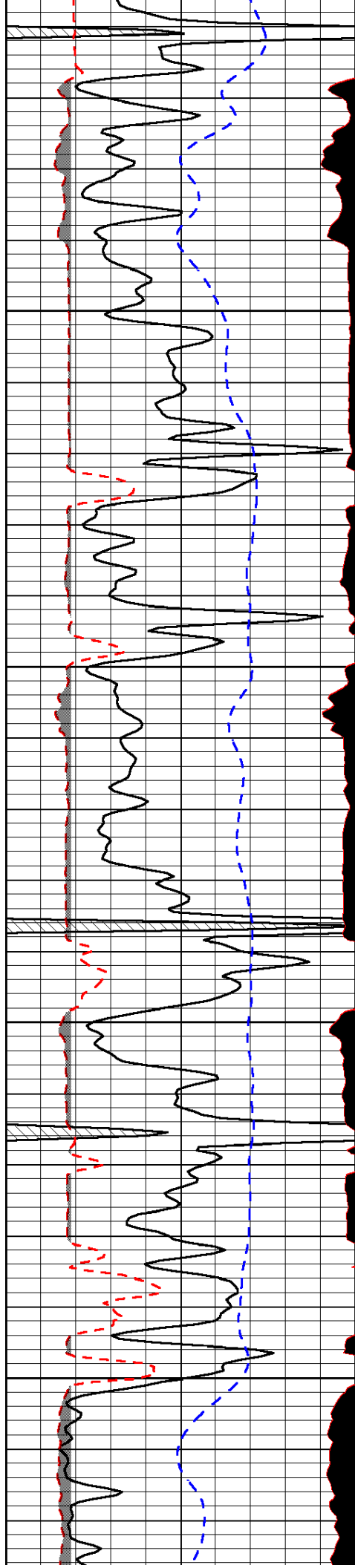
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3200

3250

3300



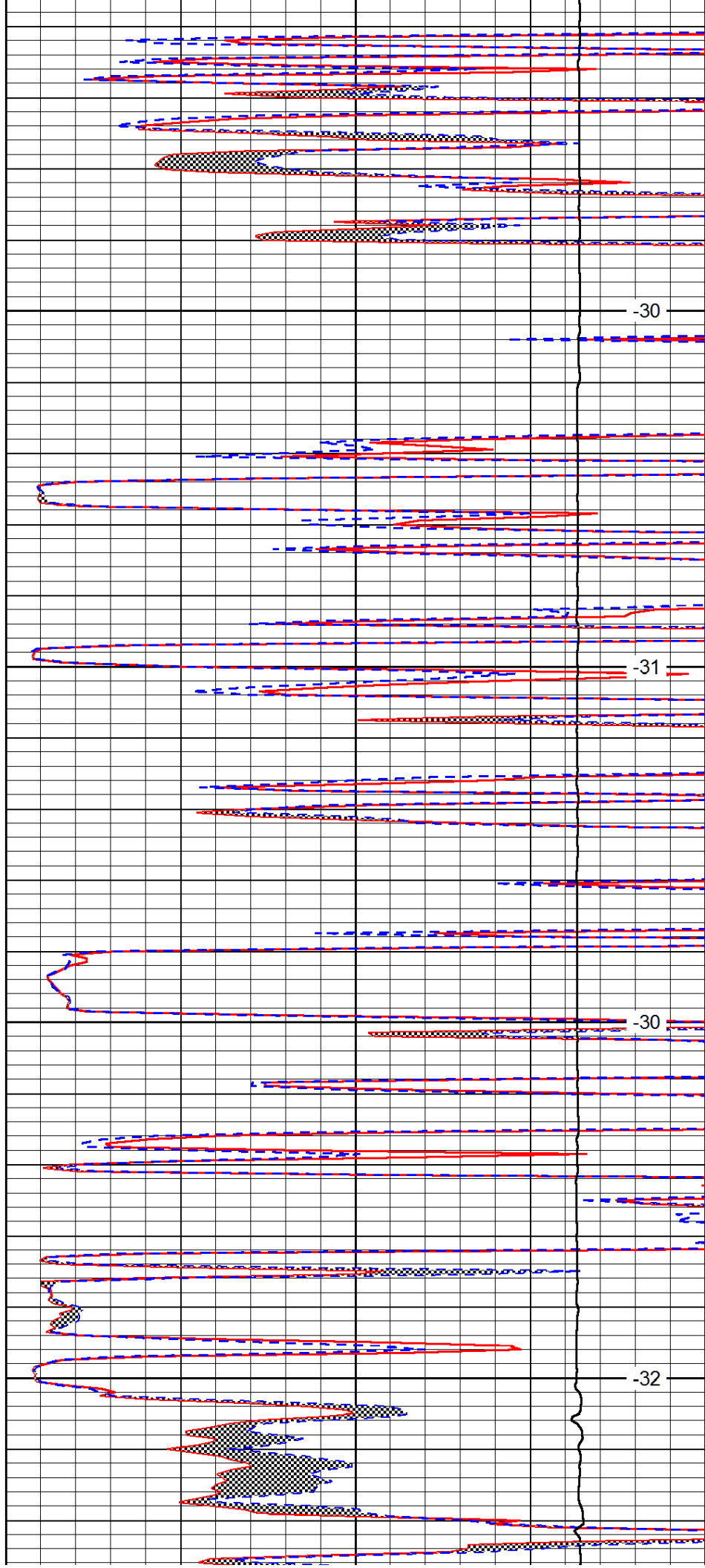


3350

3400

3450

3500

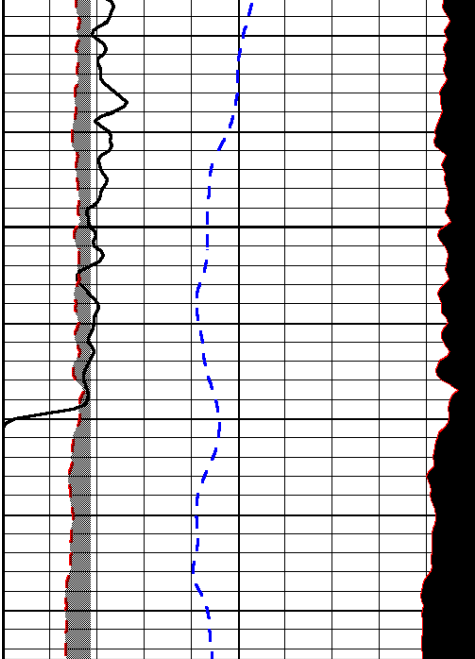


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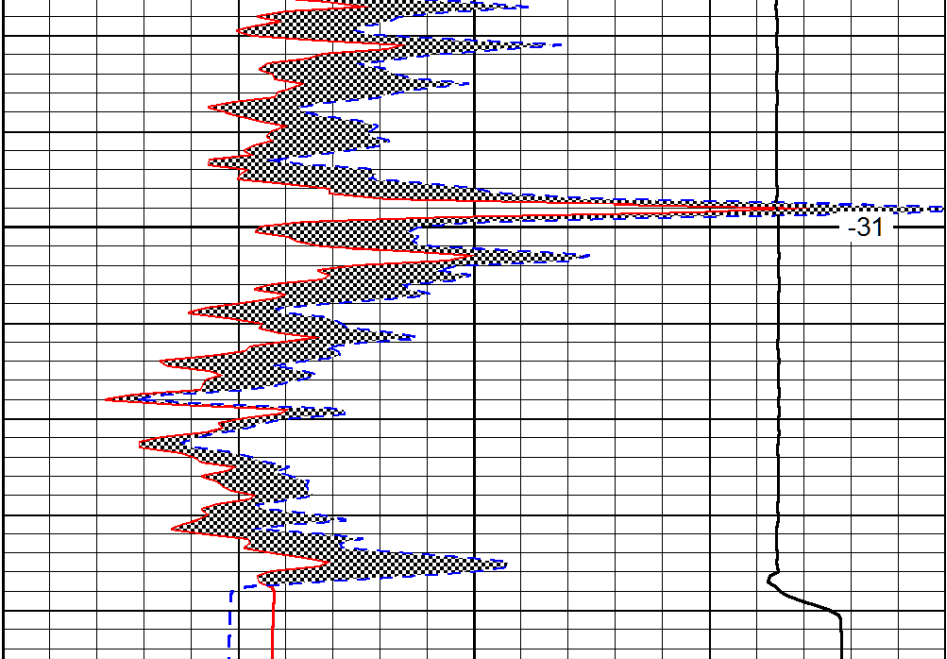
-31

-30

-32



3550



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