



Microresistivity Log

Pioneer Energy Services

API No.

15-039-21,179-00-00

Company **Murfin Drilling Company, Inc.**

Well **Urban #1-3**

Field **Wildcat**

County **Decatur**

State

Kansas

Location

1850' FSL & 1650' FWL

Other Services
CNL/CDL
DIL/BHCS

Sec: 3

Twp: 2S

Rge: 29W

Elevation

Permanent Datum Ground Level Kelly Bushing 5 Ft. Above Perm. Datum

Log Measured From Kelly Bushing

Drilling Measured From Kelly Bushing

Date 6/5/2013

Run Number Two

Depth Driller 4100

Depth Logger 4101

Bottom Logged Interval 4100

Top Log Interval 3100

Casing Driller 8.625 @ 263

Casing Logger 262

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 1700

Density / Viscosity 9.3 62

pH / Fluid Loss 10.0 6.4

Source of Sample Flowline

Rm @ Meas. Temp 0.70 @ 65

Rmf @ Meas. Temp 0.53 @ 65

Rmc @ Meas. Temp 0.95 @ 65

Source of Rmf / Rmc Charts

Rm @ BHT .39 @ 117

Operating Rig Time 5 1/2 Hours

Max Rec. Temp. F 117

Equipment Number 10

Location Hays

Recorded By D. Kerr

Witnessed By Robert Stolzle

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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.

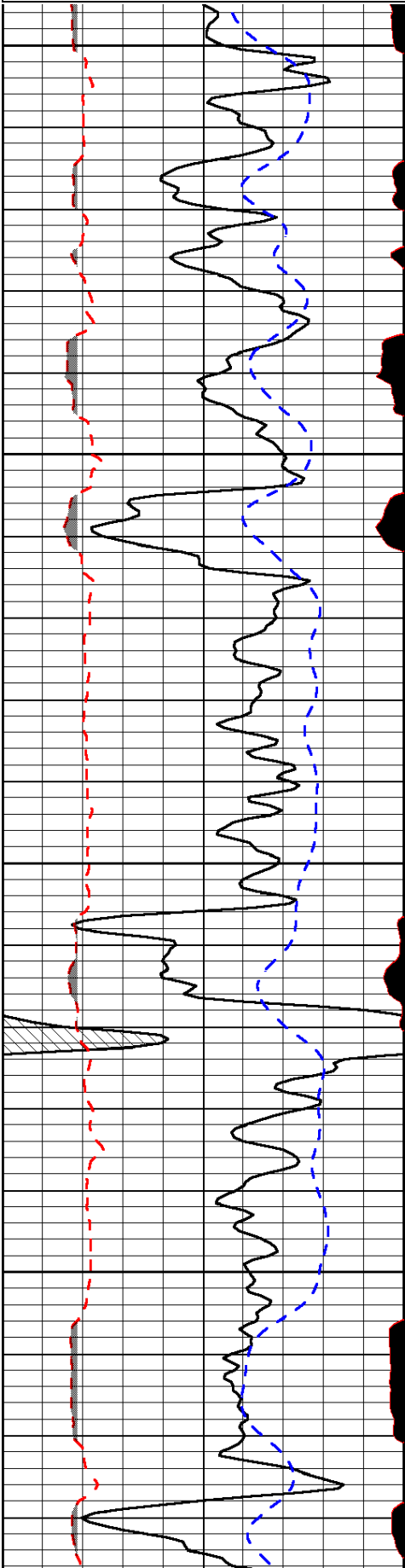
Comments

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

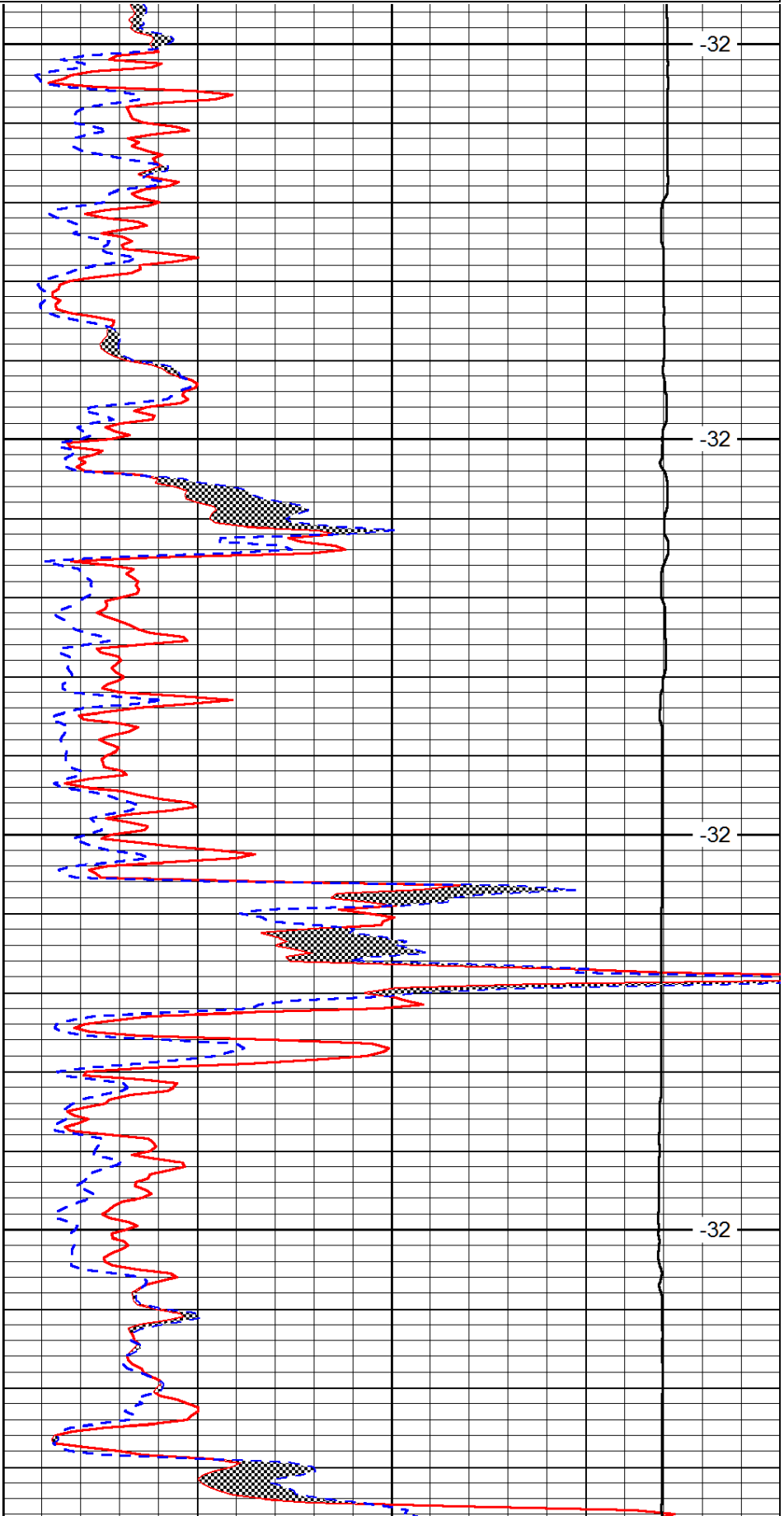
Oberlin KS, 5 North, 1 3/4 West, North Into

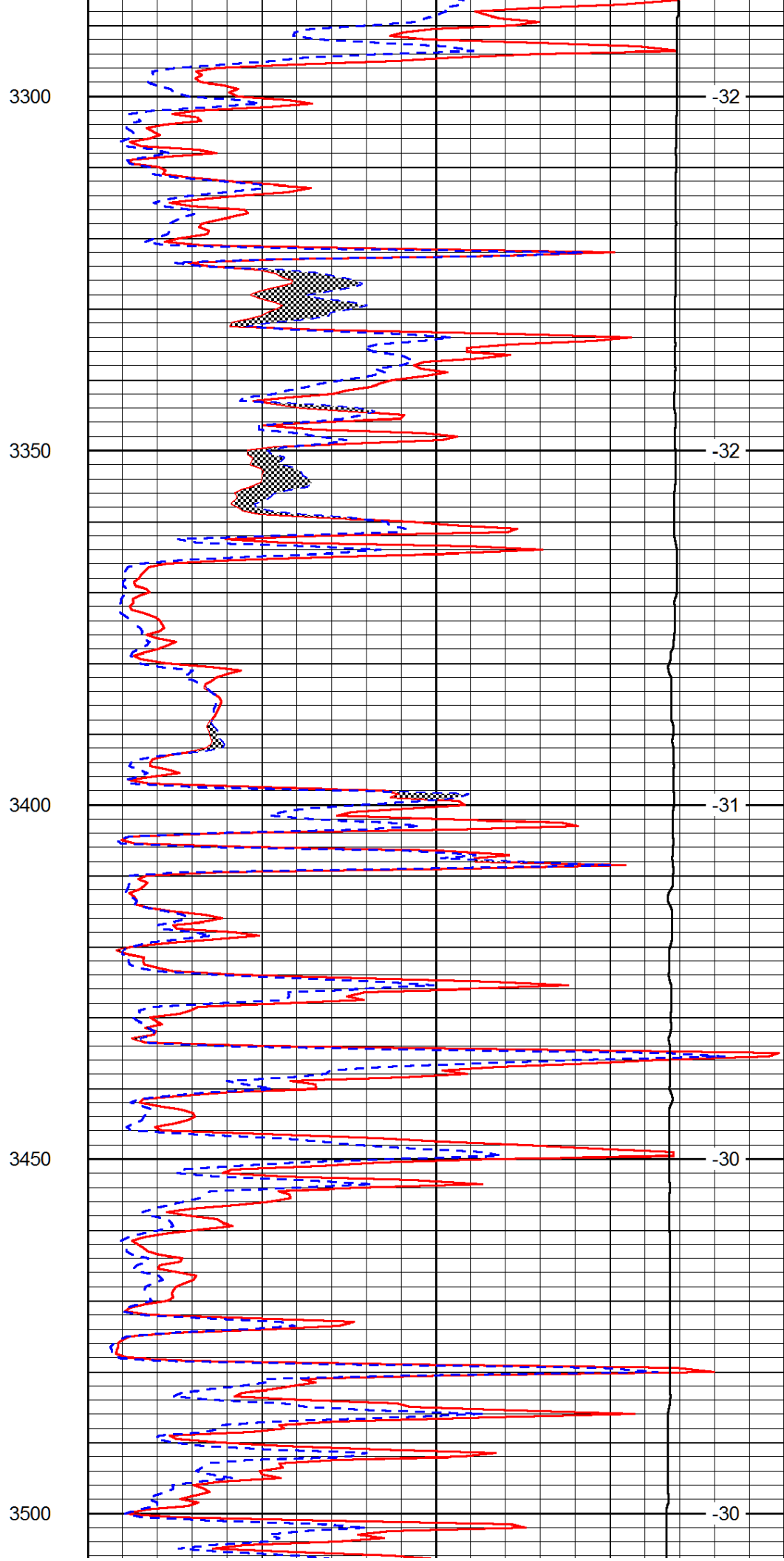
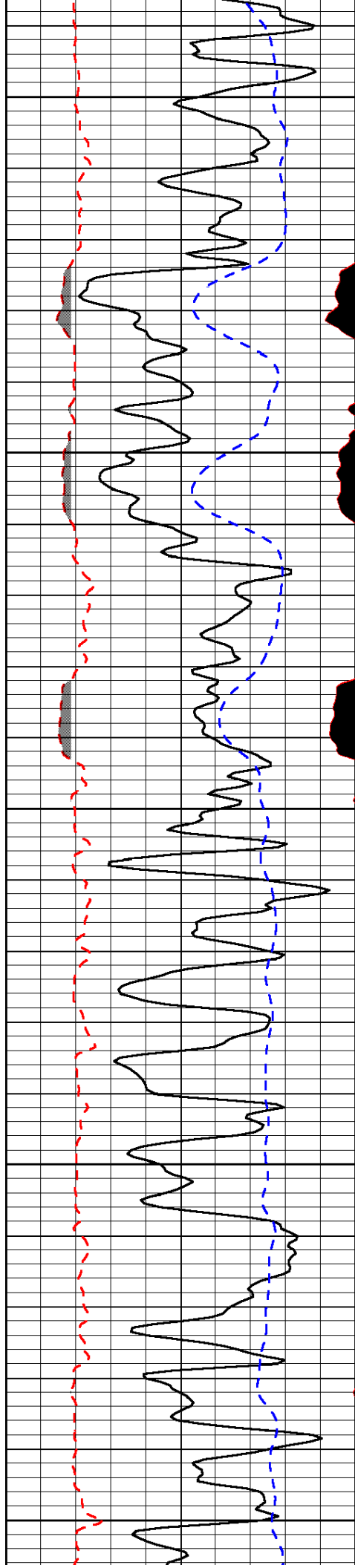
Database File: murfin_urban_1_3hd.db
Dataset Pathname: DIL/murfstk
Presentation Format: micro
Dataset Creation: Wed Jun 05 23:37:43 2013
Charted by: Depth in Feet scaled 1:240

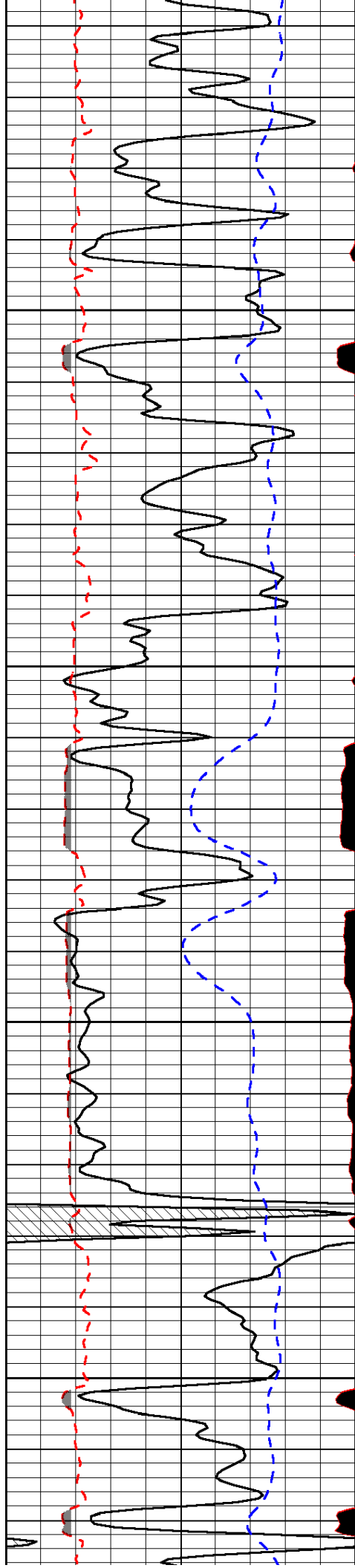
0	Gamma Ray (GAPI)	150
6	MCAL (in)	16
2.875	Mud Cake (in)	7.875
-200	SP (mV)	0



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





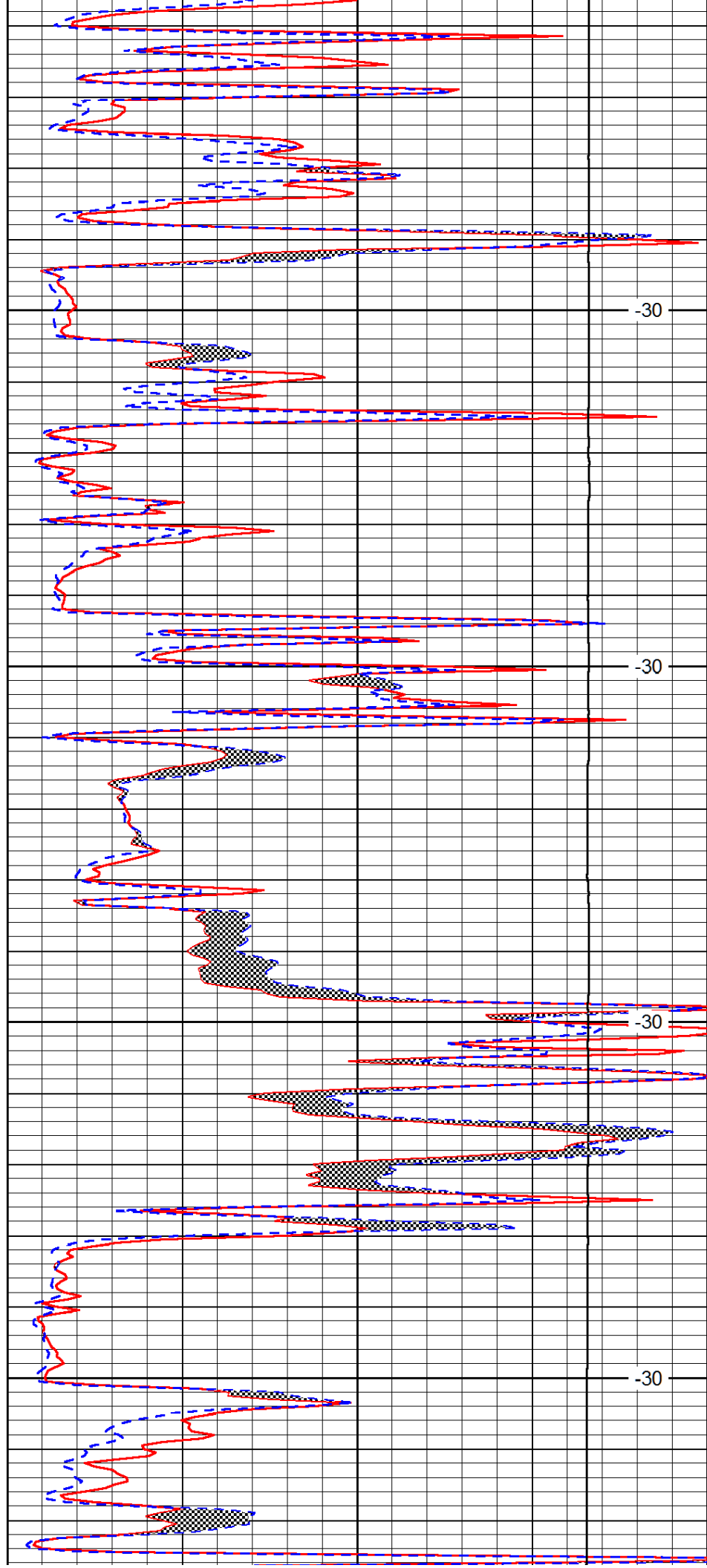


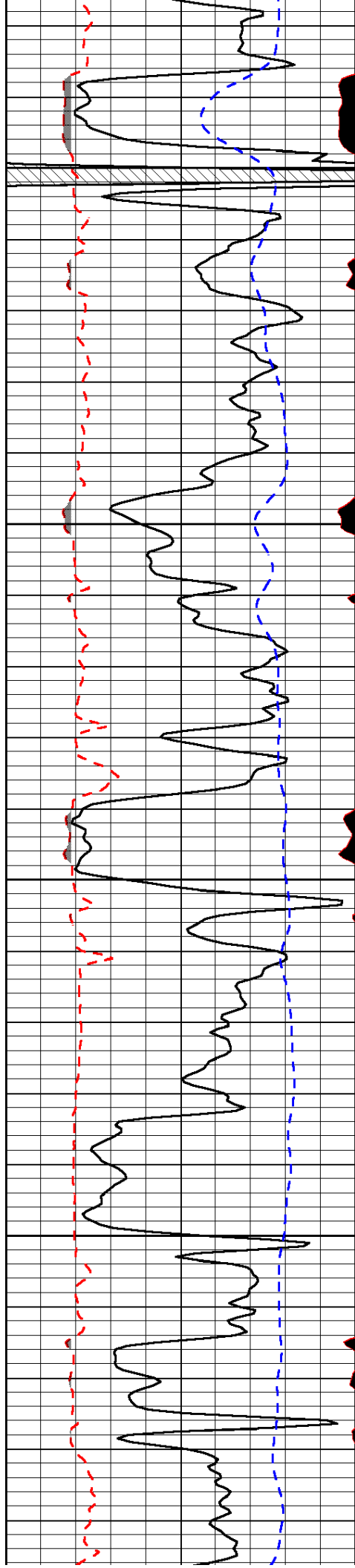
3550

3600

3650

3700



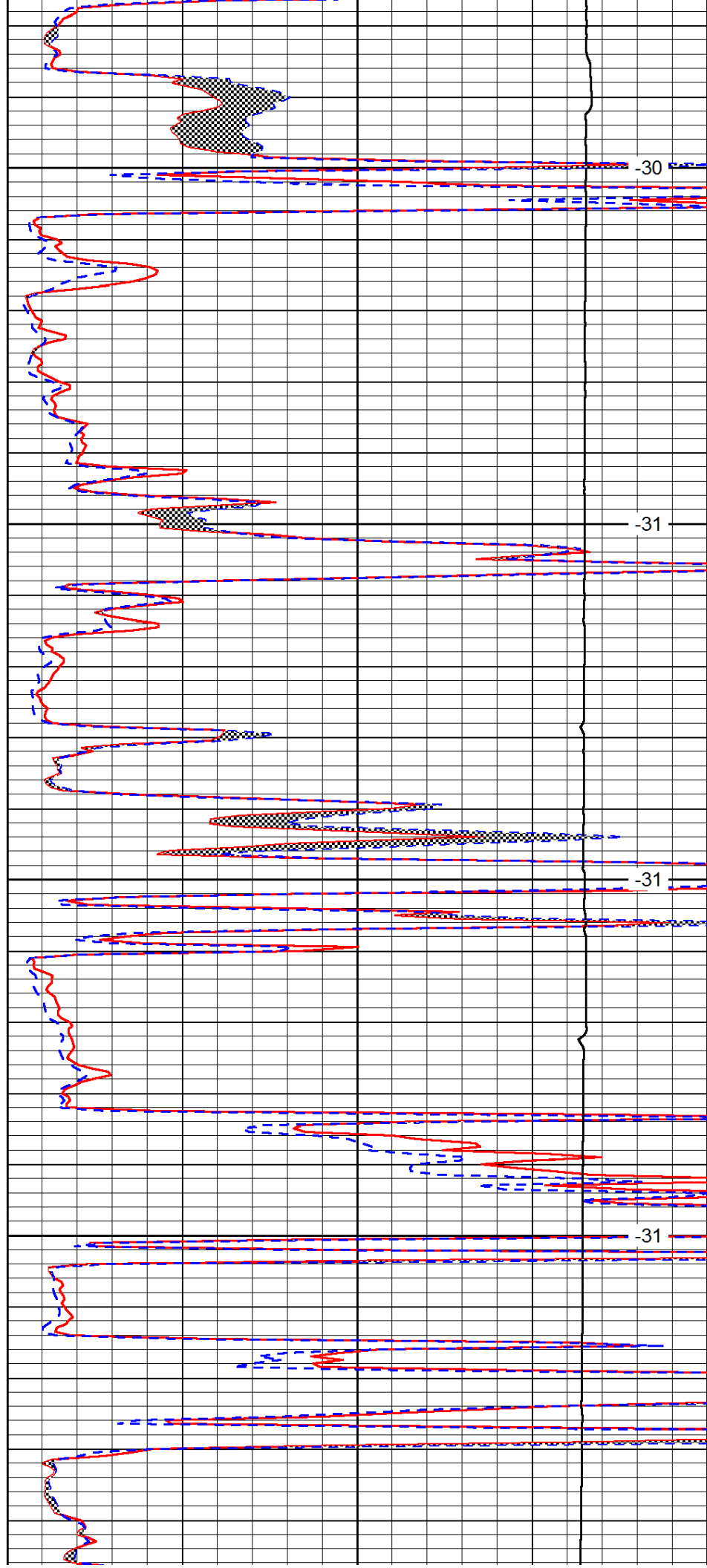


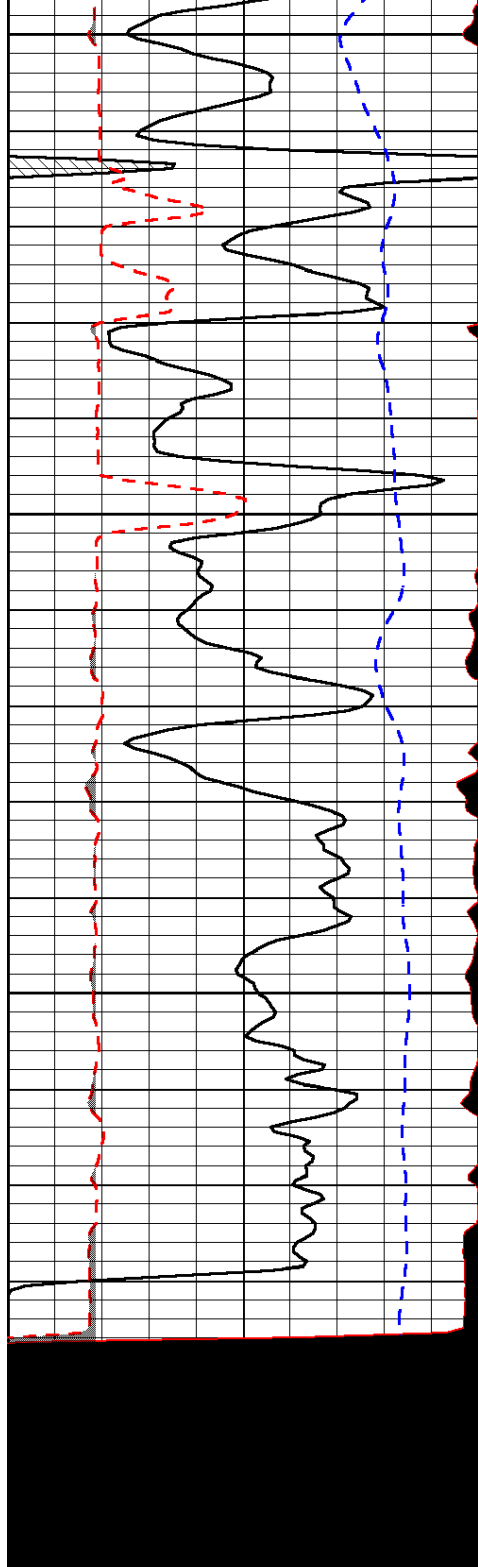
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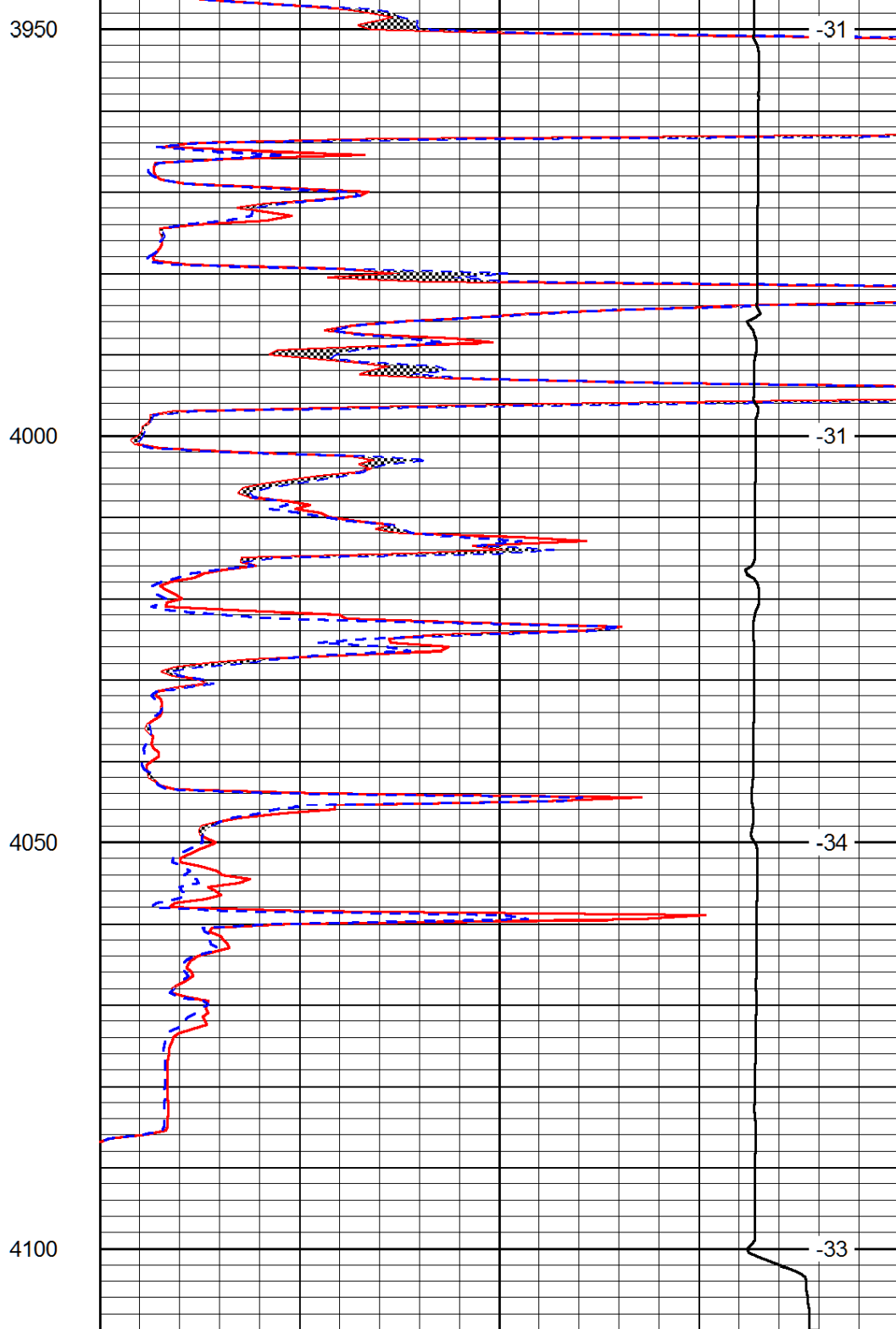
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