



Microresistivity Log

Pioneer Energy Services

API No.

15-195-22929-00-00

Company Murfin Drilling Company, Inc.

Well Hobbs #2-2

Field Saline Valley

County Trego State

Kansas

Location

2310' FNL & 1648' FWL

Other Services
CNL/CDL
DIL/BHCS

Sec: 2

Twp: 11S

Rge: 24W

Elevation

Permanent Datum Ground Level Elevation 2330
Log Measured From Kelly Bushing 5 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

K.B. 2335
D.F.
G.L. 2330

Date

4/7/2014

Run Number

One

Depth Driller

4029

Depth Logger

4027

Bottom Logged Interval

4007

Top Log Interval

3300

Casing Driller

8.625 @ 219

Casing Logger

218

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

3000

Density / Viscosity

9.0 63

pH / Fluid Loss

11.5 6.0

Source of Sample

Flowline

Rm @ Meas. Temp

0.46 @ 64

Rmf @ Meas. Temp

0.35 @ 64

Rmc @ Meas. Temp

0.62 @ 64

Source of Rmf / Rmc

Charts

Rm @ BHT

0.25 @ 118

Operating Rig Time

5 Hours

Max Rec. Temp. F

118

Equipment Number

91

Location

Hays

Recorded By

D. Schmitt

Witnessed By

Charles Schmitz

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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.

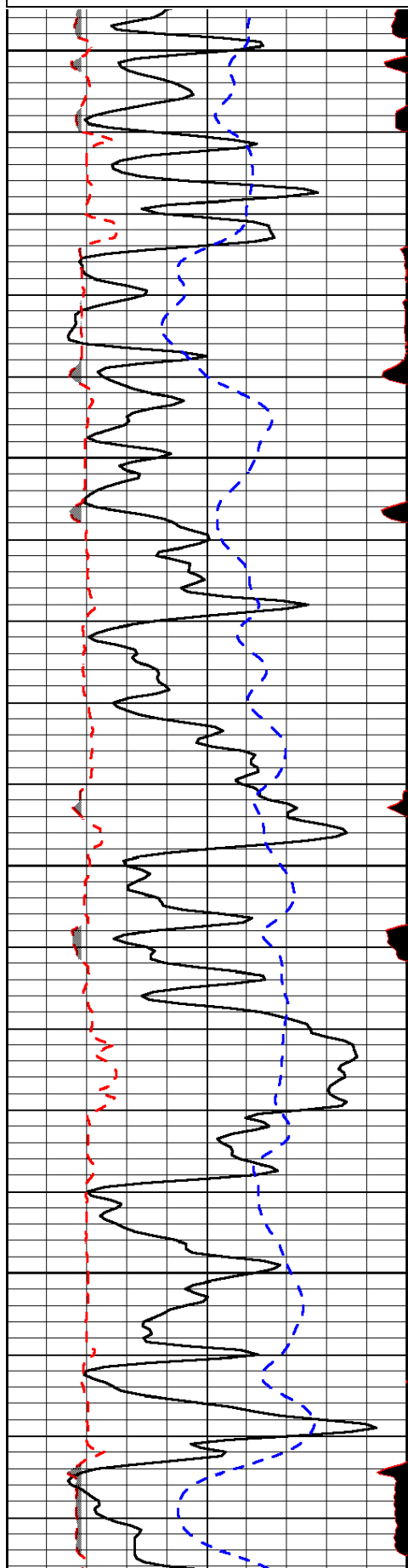
Comments

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

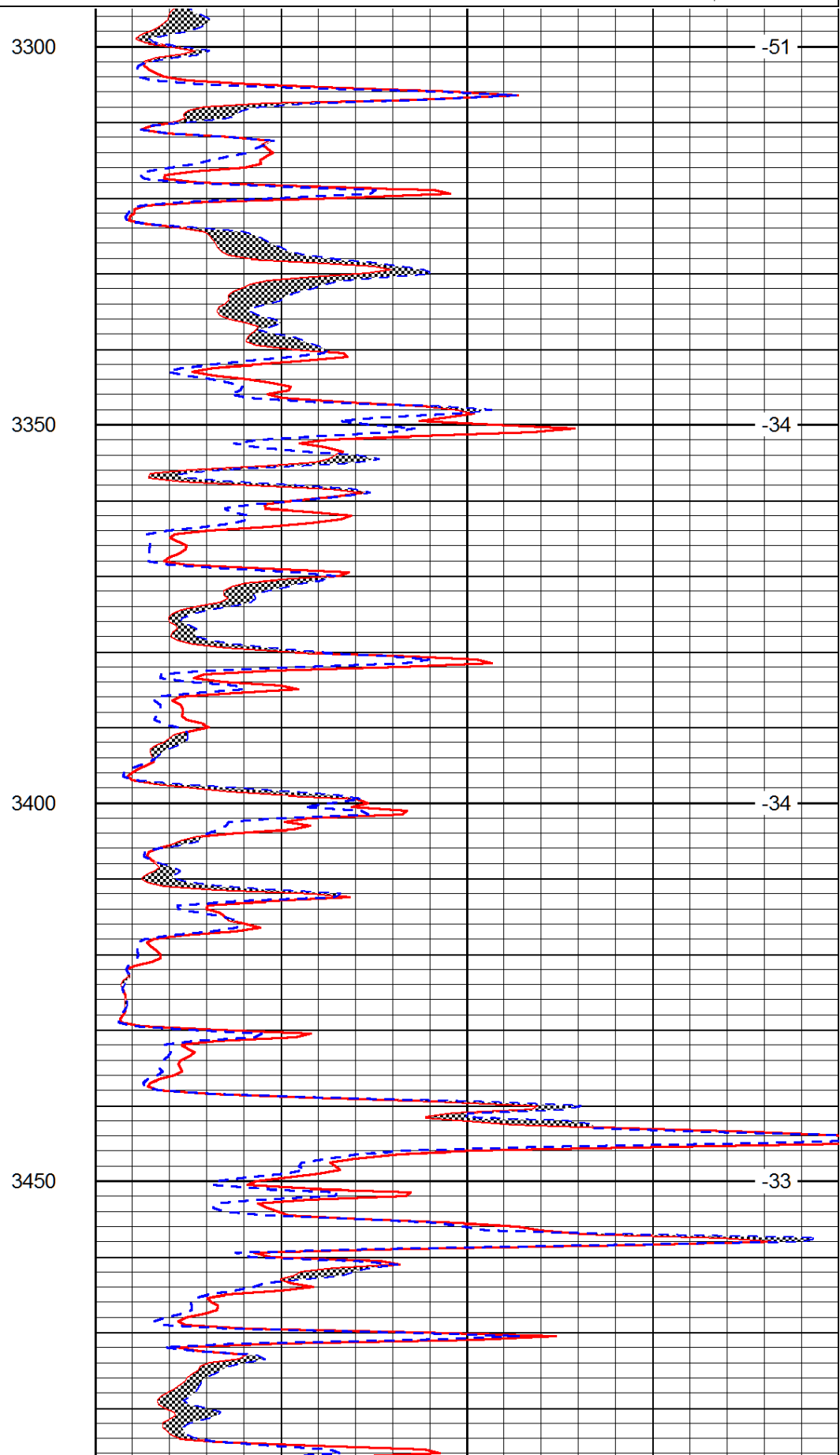
Wakeeney,
North on Hwy 281 to B Rd, 5 West to 210 Rd, 3/4 North,
East & South into

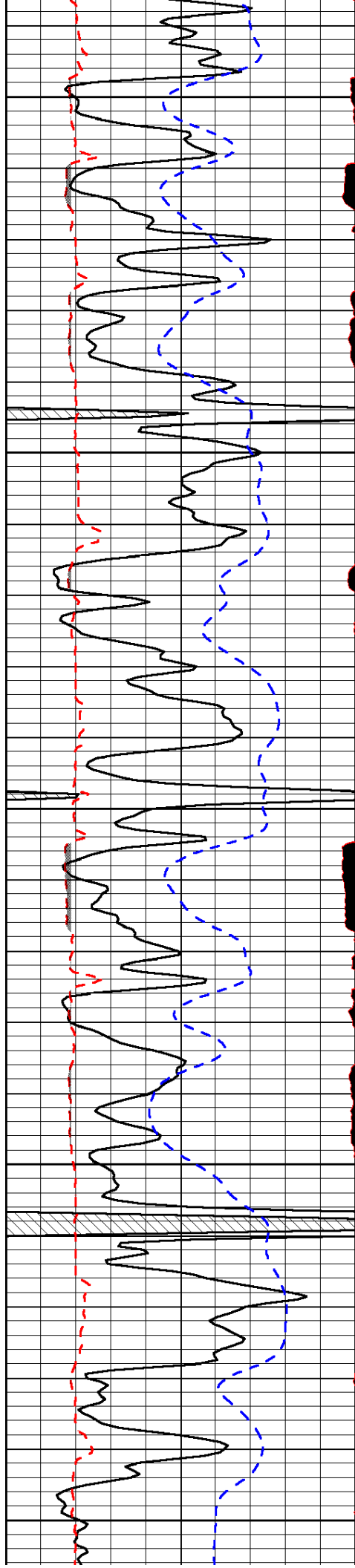
Database File: murfin2_040714hd.db
Dataset Pathname: dil/mrfstkml
Presentation Format: micro
Dataset Creation: Mon Apr 07 14:30:13 2014
Charted by: Depth in Feet scaled 1:240

Charted by: Depth in Feet scaled 1:210		
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)





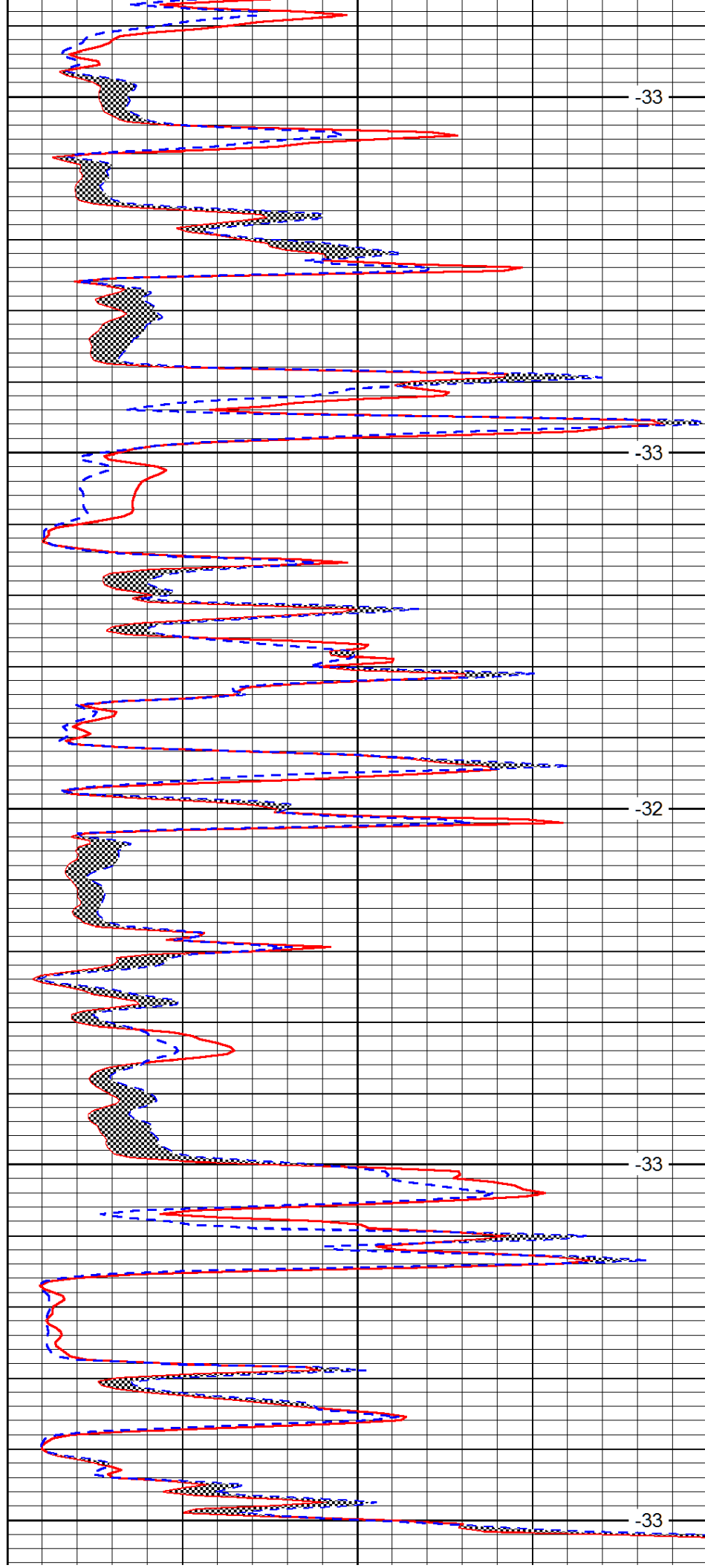
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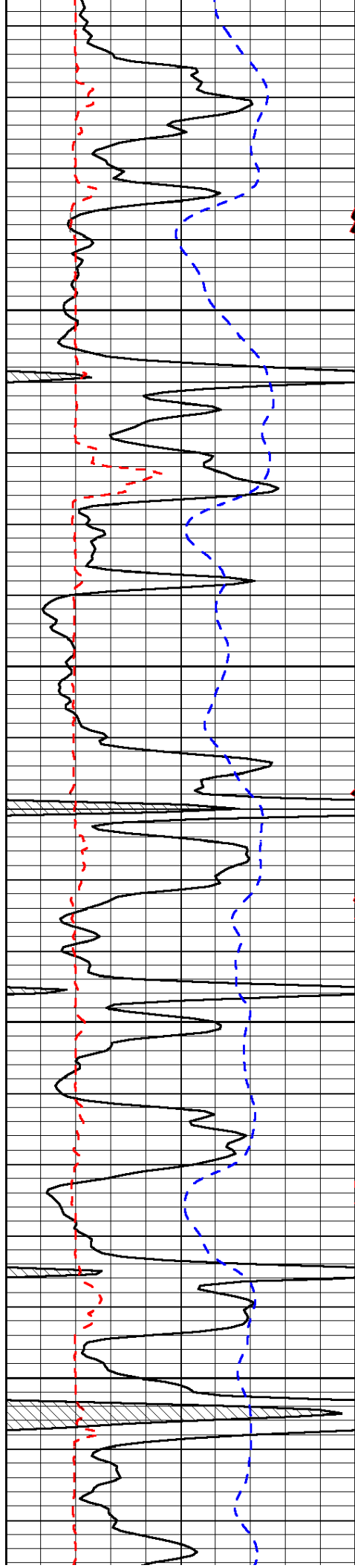
3550

3600

3650

3700



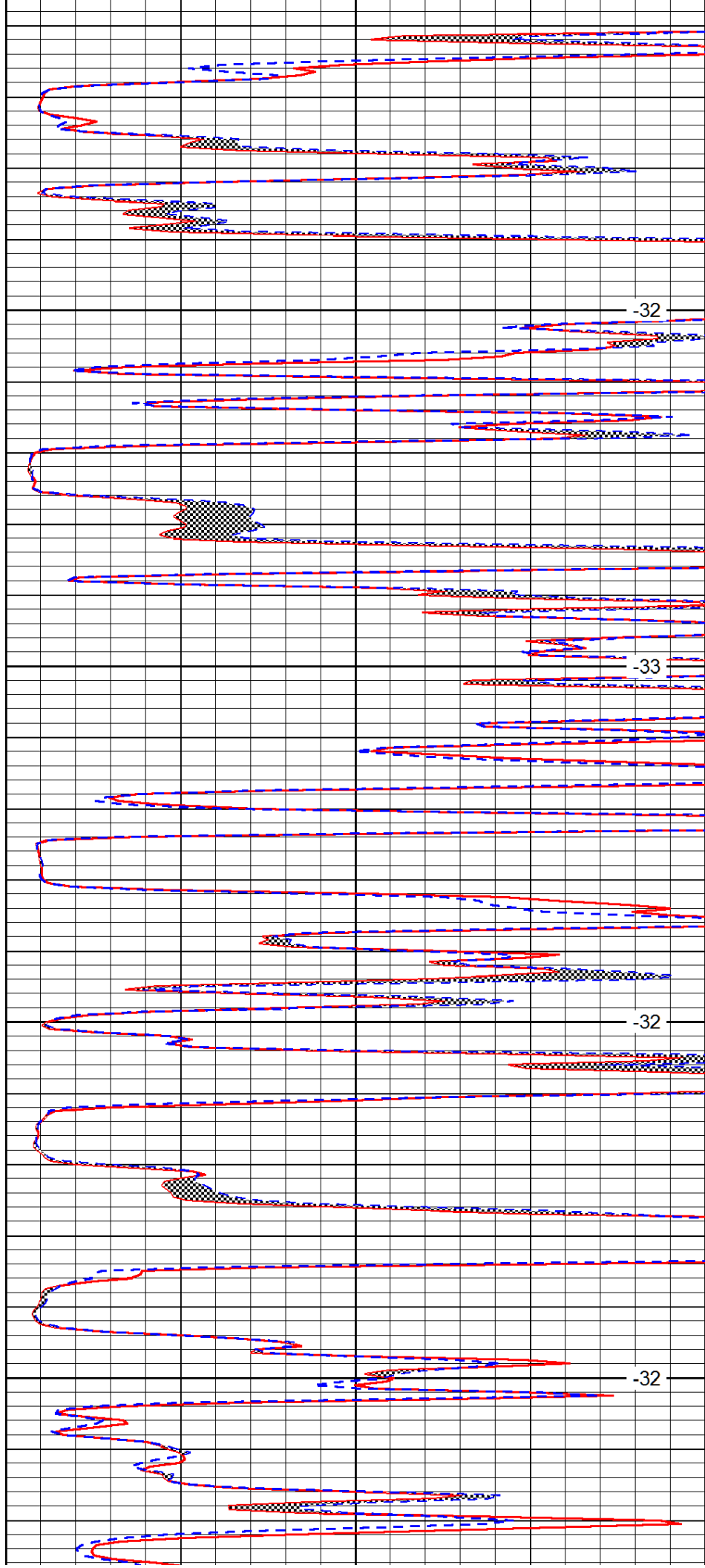


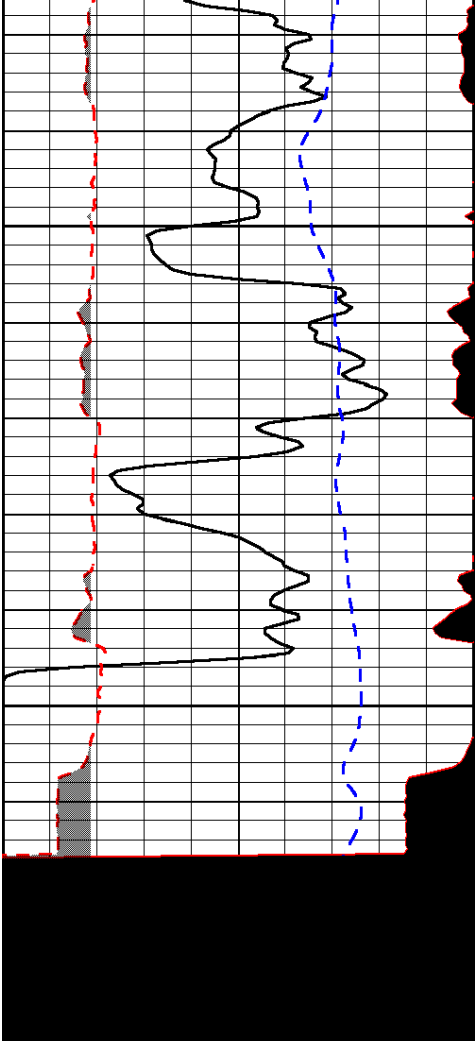
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3800

3850

3900

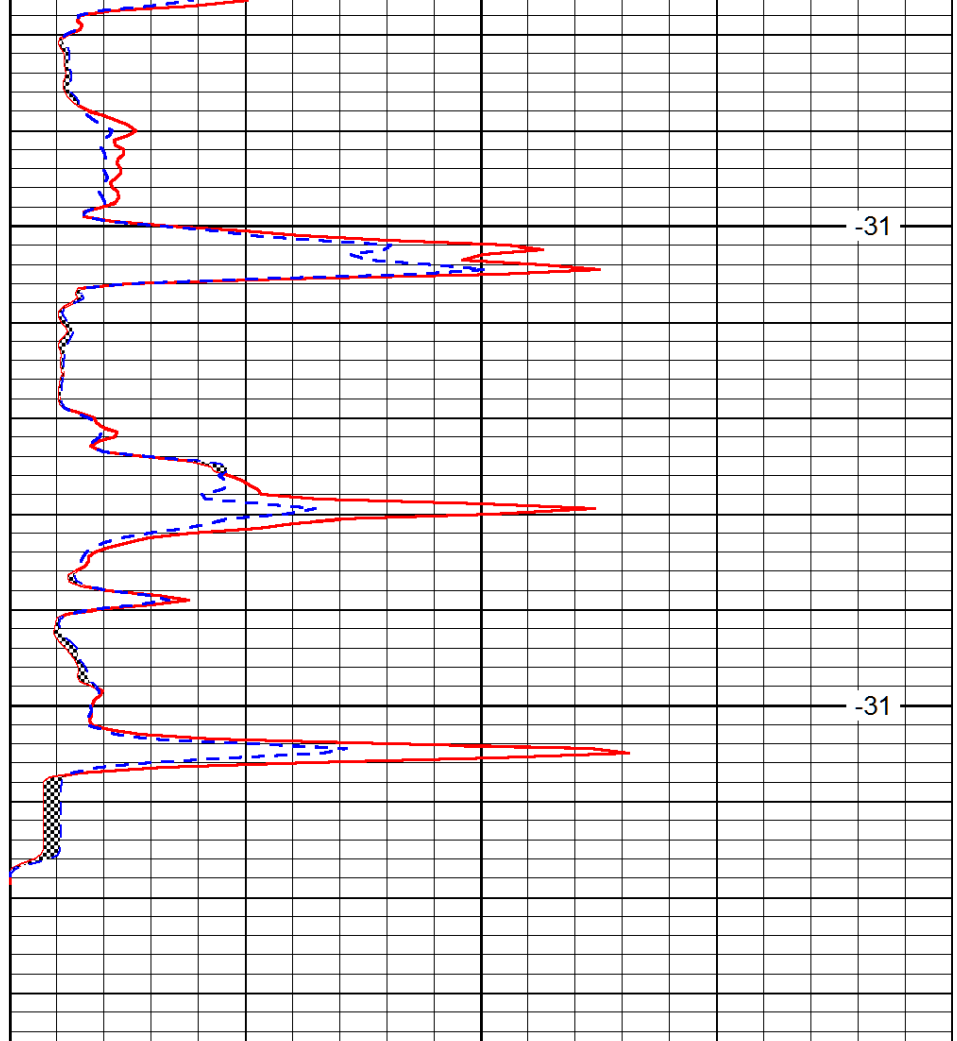




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