



Microresistivity Log

DIGITAL LOG (785) 625-3858

API No.

15-101-22,383-00-00

Company Larson Engineering, Inc.

Well Cramer #1-17

Field Wildcat

County Lane State Kansas

Location 1318' FSL & 2310' FEL

Sec: 17 Twp: 17 S Rge: 30 W

Permanent Datum Ground Level Elevation 2882

Log Measured From Kelly Bushing 7 Ft. Above Perm. Datum

Drilling Measured From Kelly Bushing

Other Services
CNL/CDL
DIL

Elevation
K.B. 2889
D.F.
G.L. 2882

Date 7/7/2012

Run Number Two

Depth Driller 4620

Depth Logger 4620

Bottom Logged Interval 4619

Top Log Interval 3600

Casing Driller 8.625 @ 261

Casing Logger 262

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 3500

Density / Viscosity 9.3 55

pH / Fluid Loss 10.0 8.8

Source of Sample Flowline

Rm @ Meas. Temp .80 @ 86

Rmf @ Meas. Temp .60 @ 86

Rmc @ Meas. Temp 1.08 @ 86

Source of Rmf / Rmc Charts

Rm @ BHT .56 @ 122

Operating Rig Time 4 Hours

Max Rec. Temp. F 122

Equipment Number 108

Location Hays

Recorded By D.Kerr

Witnessed By Vern Schrag

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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.

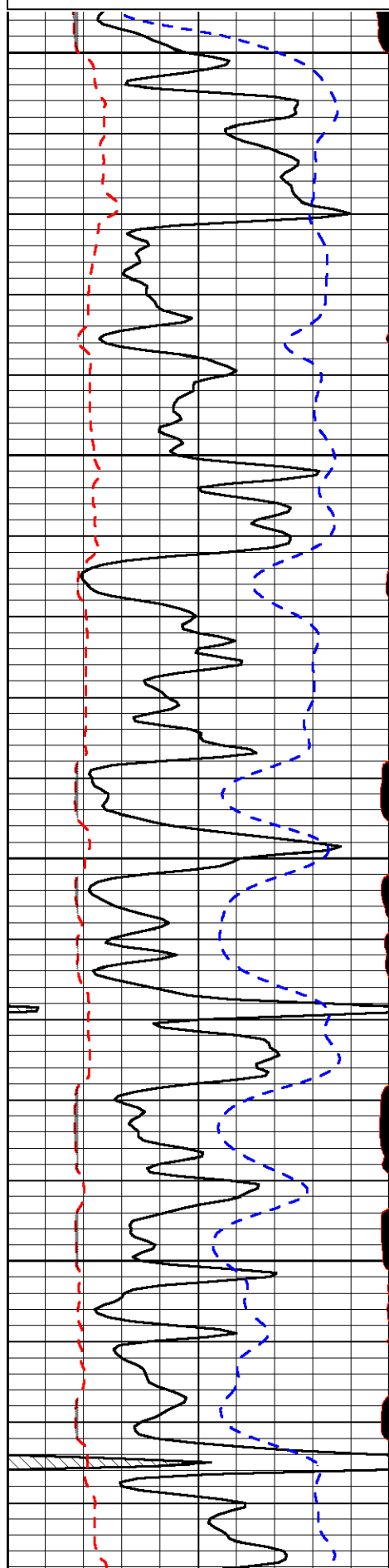
Comments

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

Healy KS, 2 West to Bison RD,
2 South, 1/4 West,
North Into

Database File: laron_cramer_1_17hd.db
Dataset Pathname: DIL2/larstlk4
Presentation Format: micro
Dataset Creation: Sat Jul 07 13:18:26 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



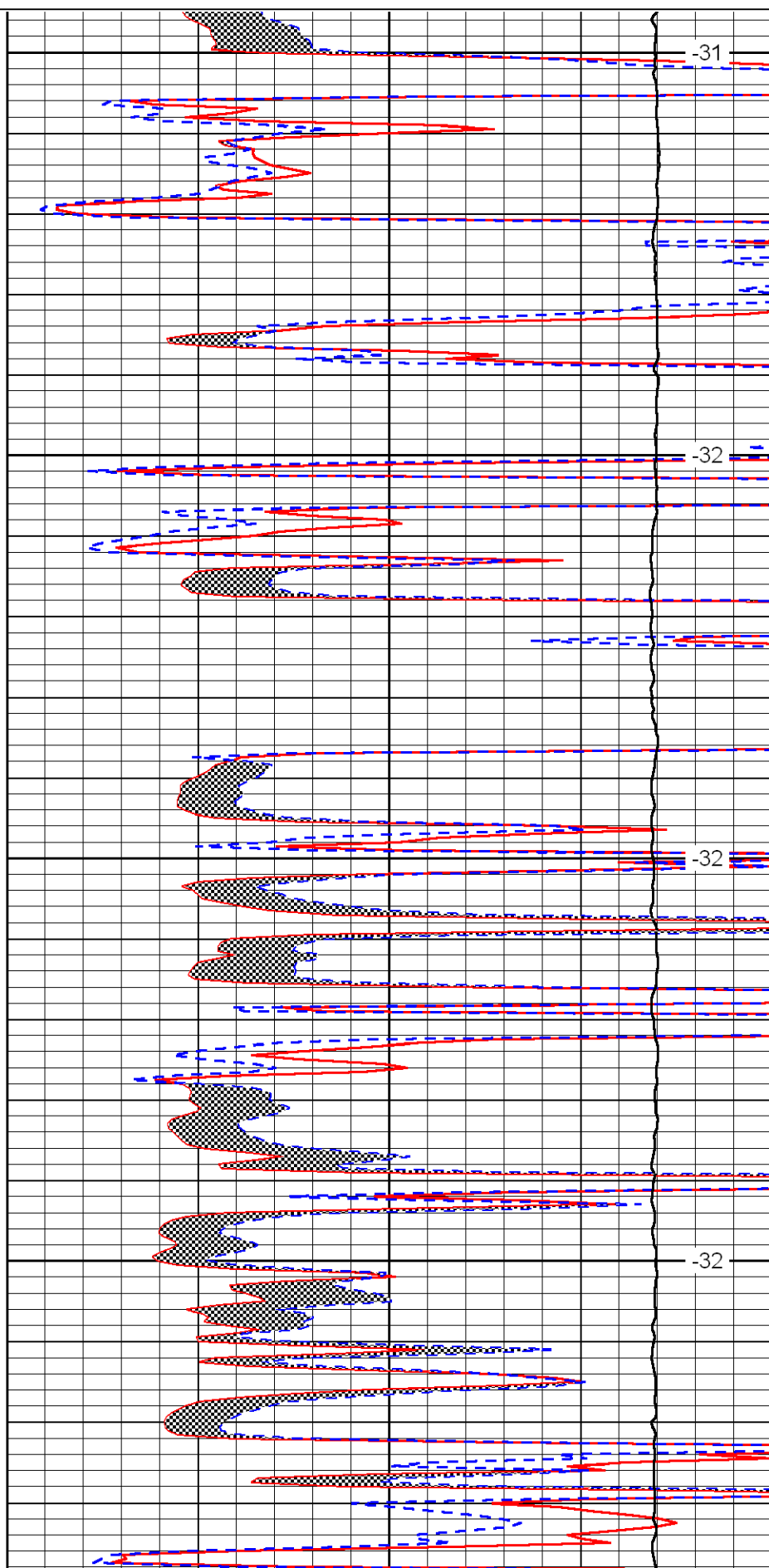
3600

3650

3700

3750

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

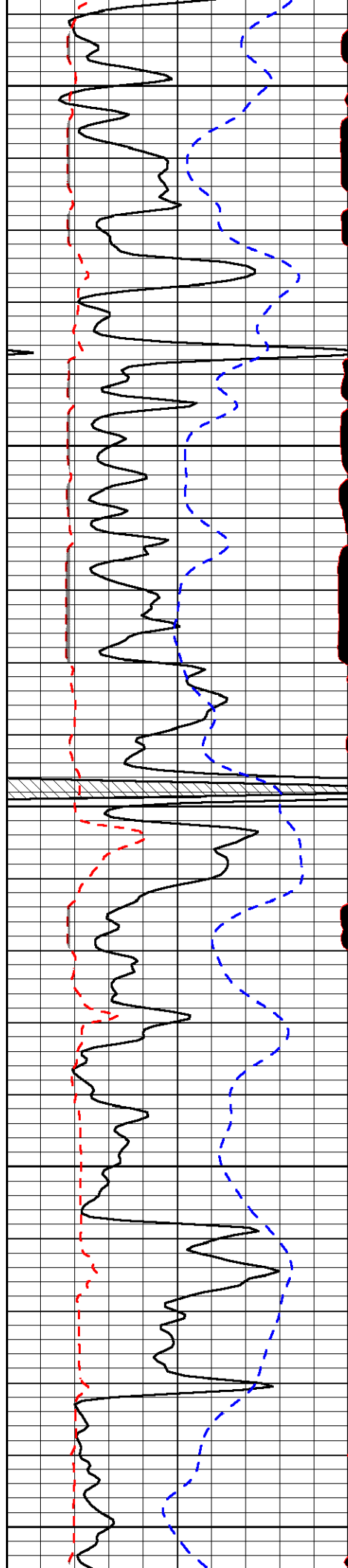


-31

-32

-32

-32



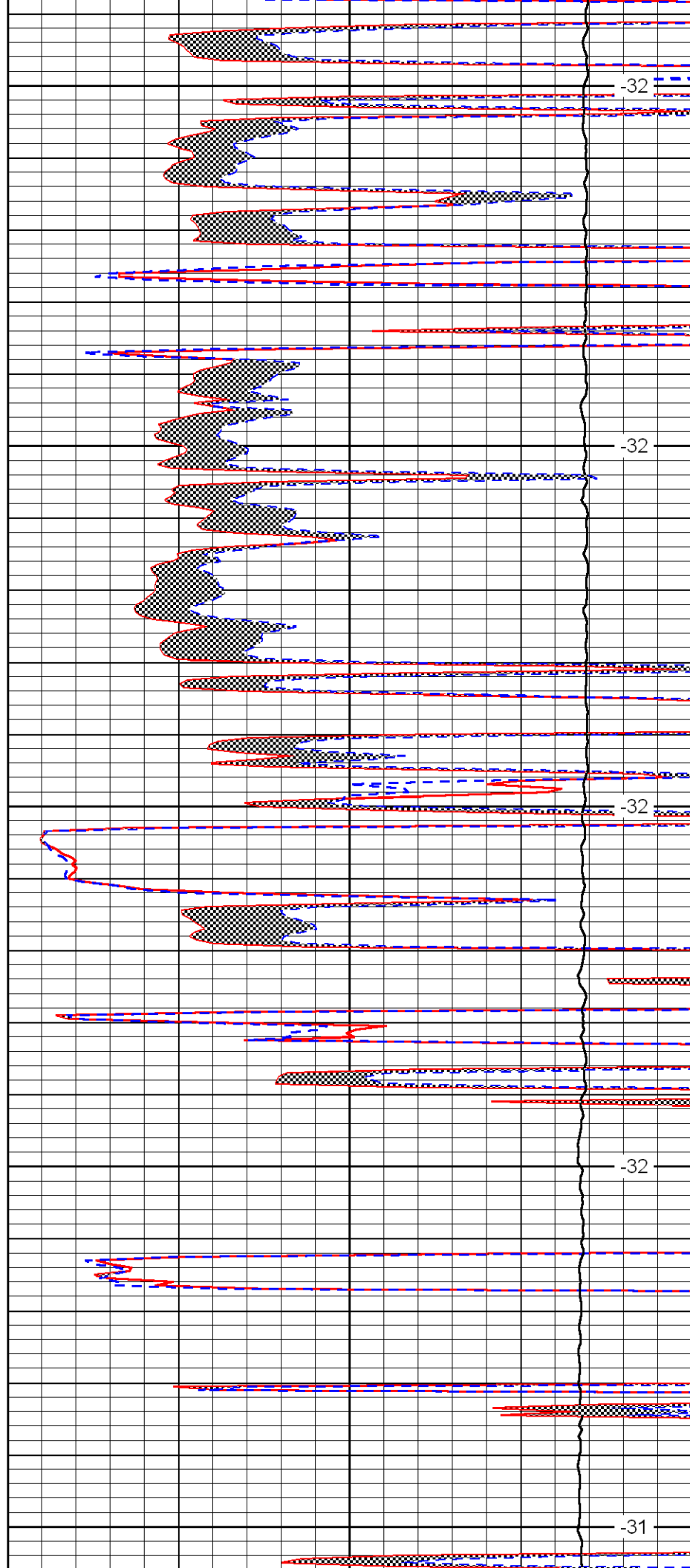
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3850

3900

3950

4000



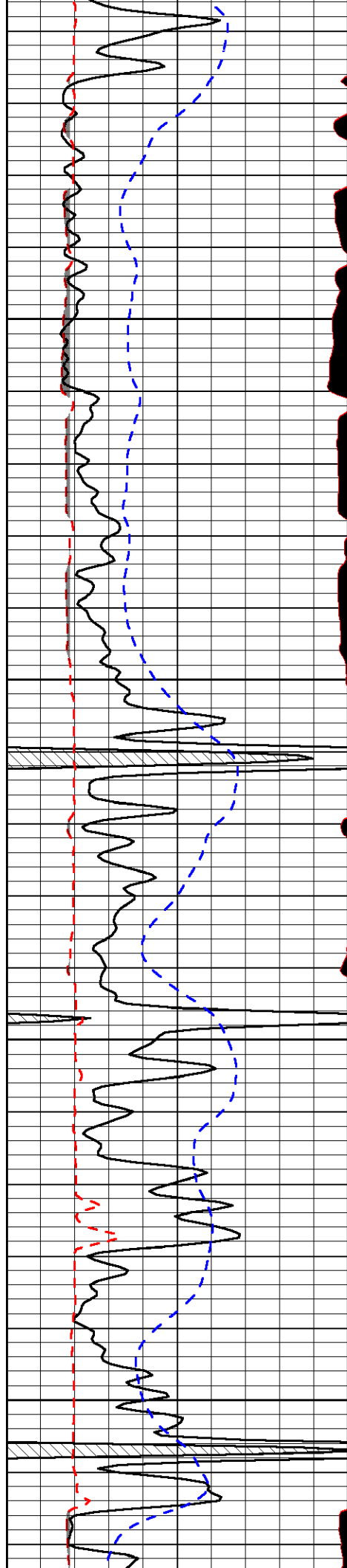
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-32

-32

-32

-31

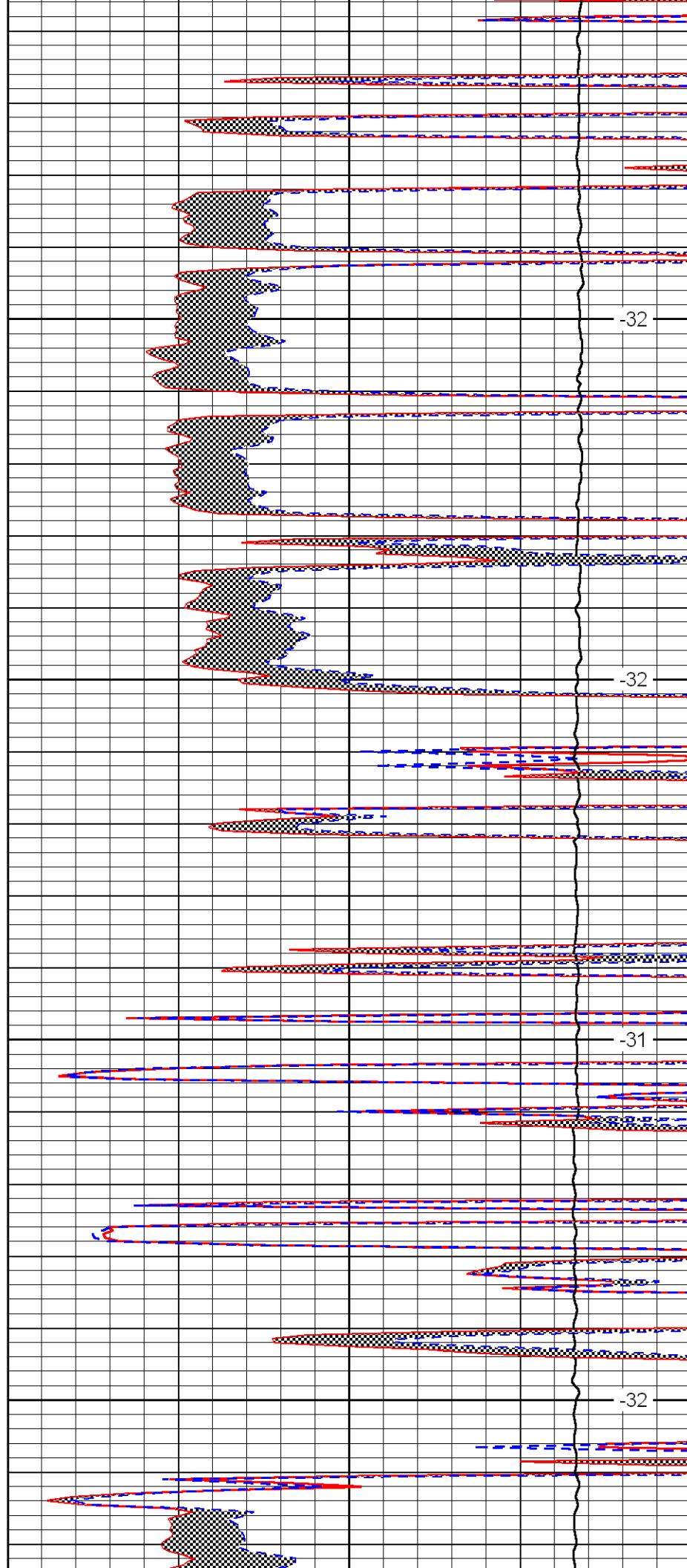


4050

4100

4150

4200

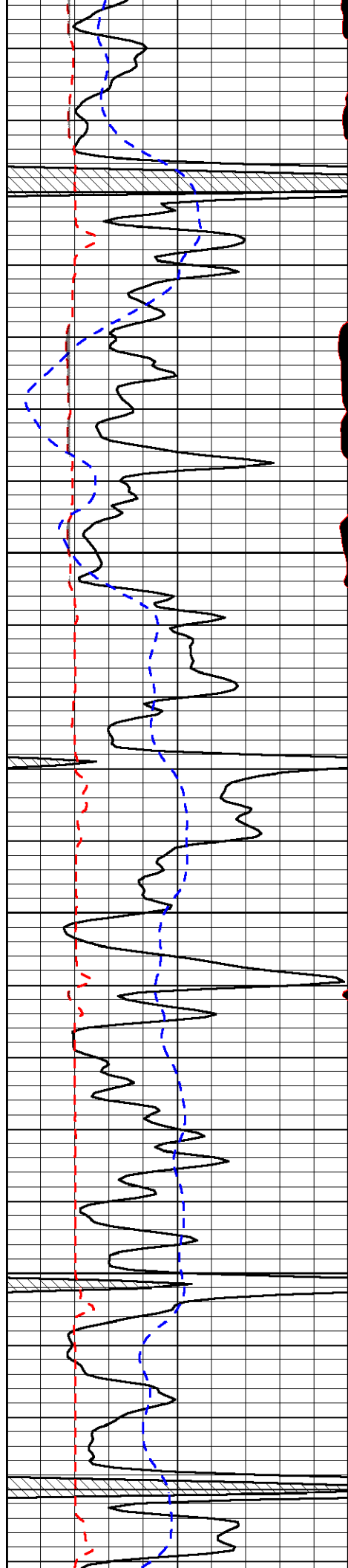


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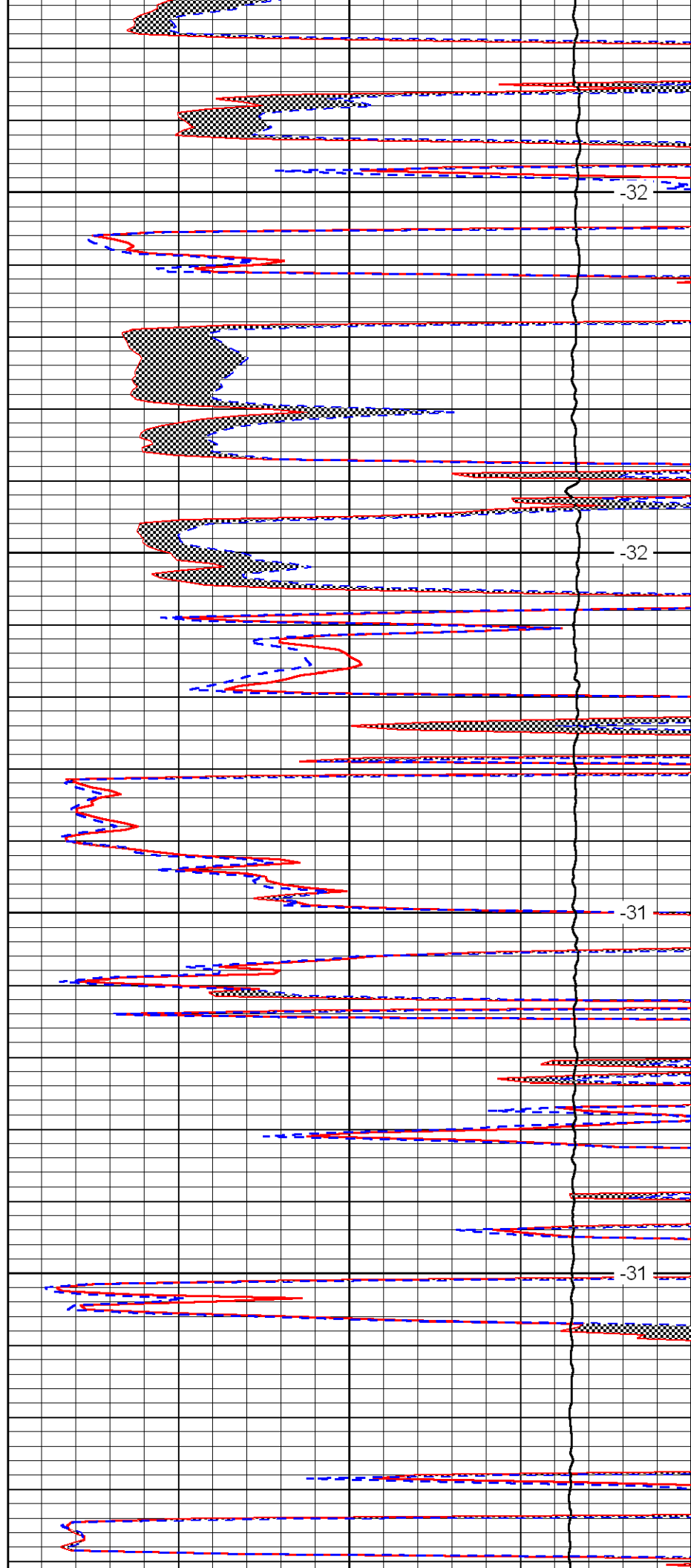


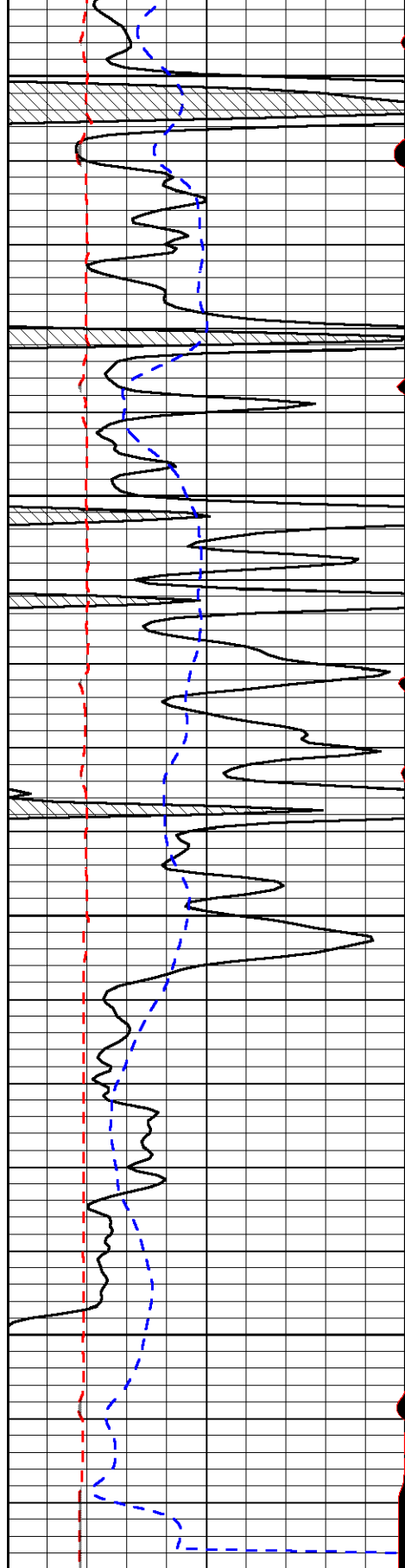
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4300

4350

4400





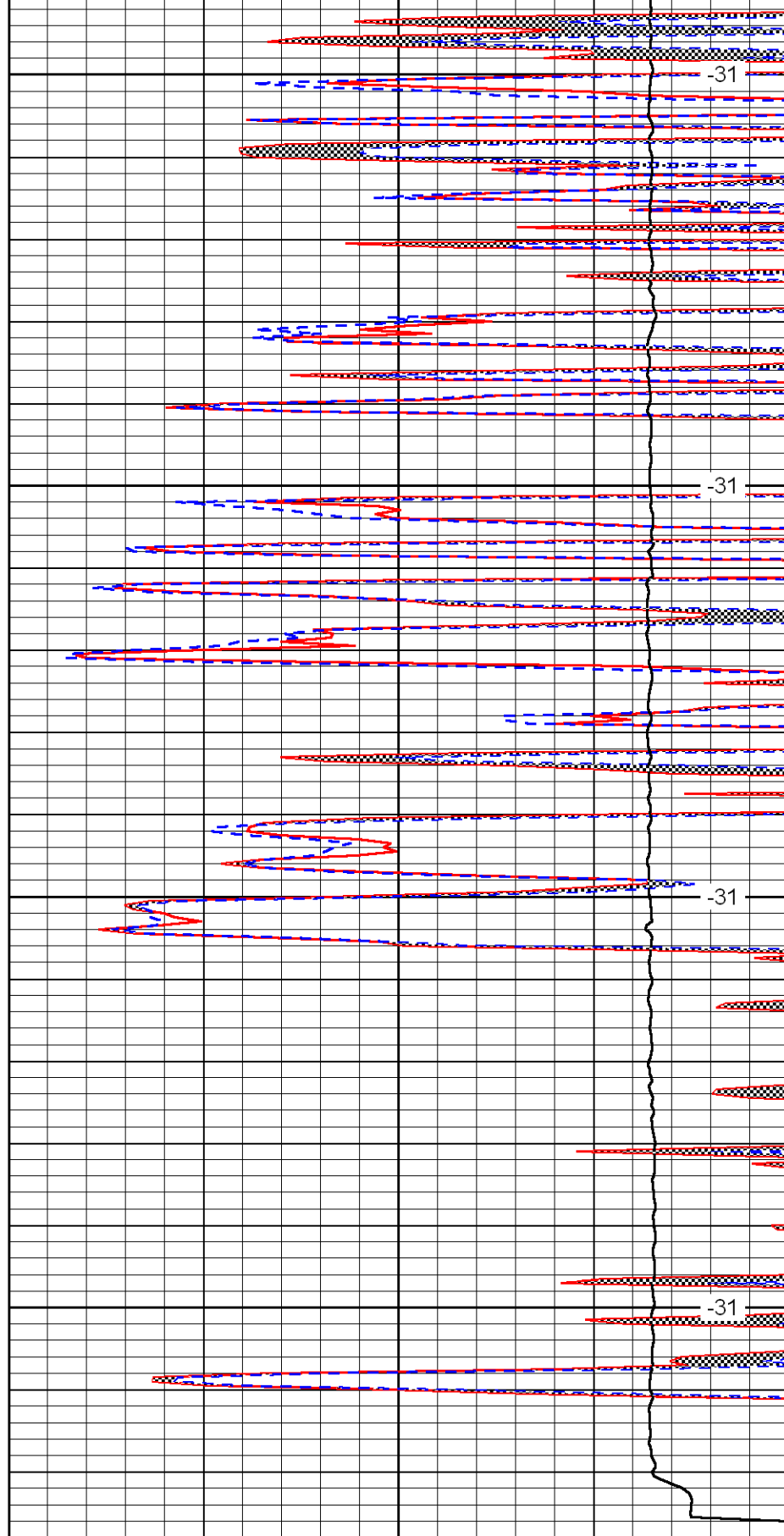
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