



Microresistivity Log

DIGITAL LOG (785) 625-3858

API No.

15-101-22209-00-00

Company Larson Engineering, Inc.

Well Cramer No. 1-22

Field Wildcat

County Lane State Kansas

Location 2280' FSL & 330' FWL

Sec: 22 Twp: 17 S Rge: 30 S

Other Services
CNL/CDL
DIL

Elevation

K.B. 2873

D.F. 2863

Permanent Datum Ground Level Elevation 2863

Log Measured From Kelly Bushing 10 Ft. Above Perm. Datum

Drilling Measured From Kelly Bushing

Date 1/22/2010

Run Number Two

Depth Driller 4615

Depth Logger 4620

Bottom Logged Interval 4619

Top Log Interval 3600

Casing Driller 8.625 @ 261

Casing Logger 260

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 3000

Density / Viscosity 9.5 46

pH / Fluid Loss 9.5 9.2

Source of Sample Flowline

Rm @ Meas. Temp 1.70 @ 60

Rmf @ Meas. Temp 1.28 @ 60

Rmc @ Meas. Temp 2.30 @ 60

Source of Rmf / Rmc Charts

Rm @ BHT 0.84 @ 122

Operating Rig Time 4 Hours

Max Rec. Temp. F 122

Equipment Number 15

Location Hays

Recorded By B. Becker

Witnessed By Bob Lewellyn

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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.

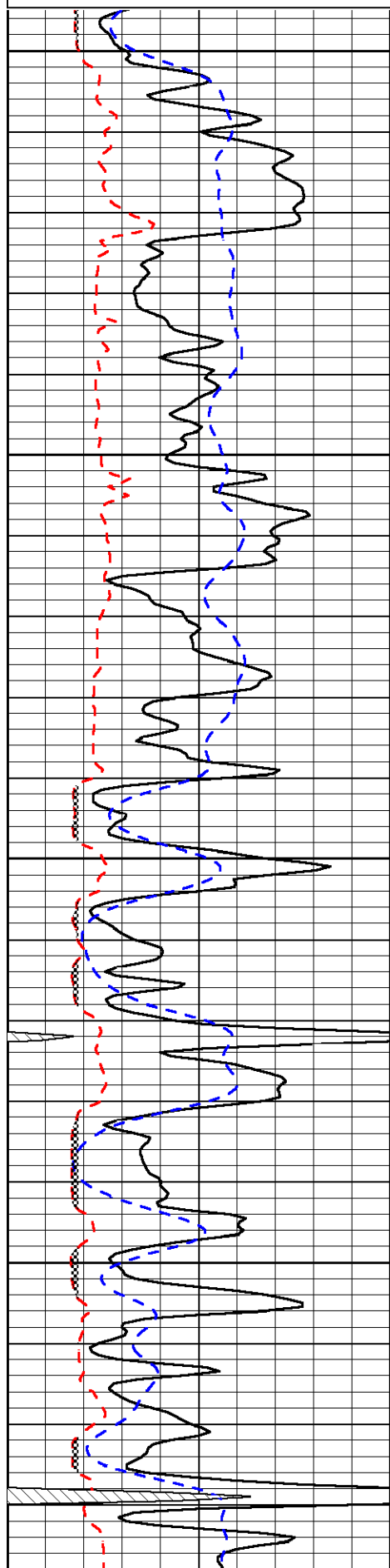
Comments

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

Dighton, Ks; 8 West; 5 North;
1 West; North Into

Database File: c:\warrior\data\larson_cramer no. 1-22\larsonhd.db
Dataset Pathname: DIL\larstk
Presentation Format: micro
Dataset Creation: Fri Jan 22 06:10:31 2010
Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150
6	Micro Log Caliper (in)	16
-200	SP (MV)	0



3600

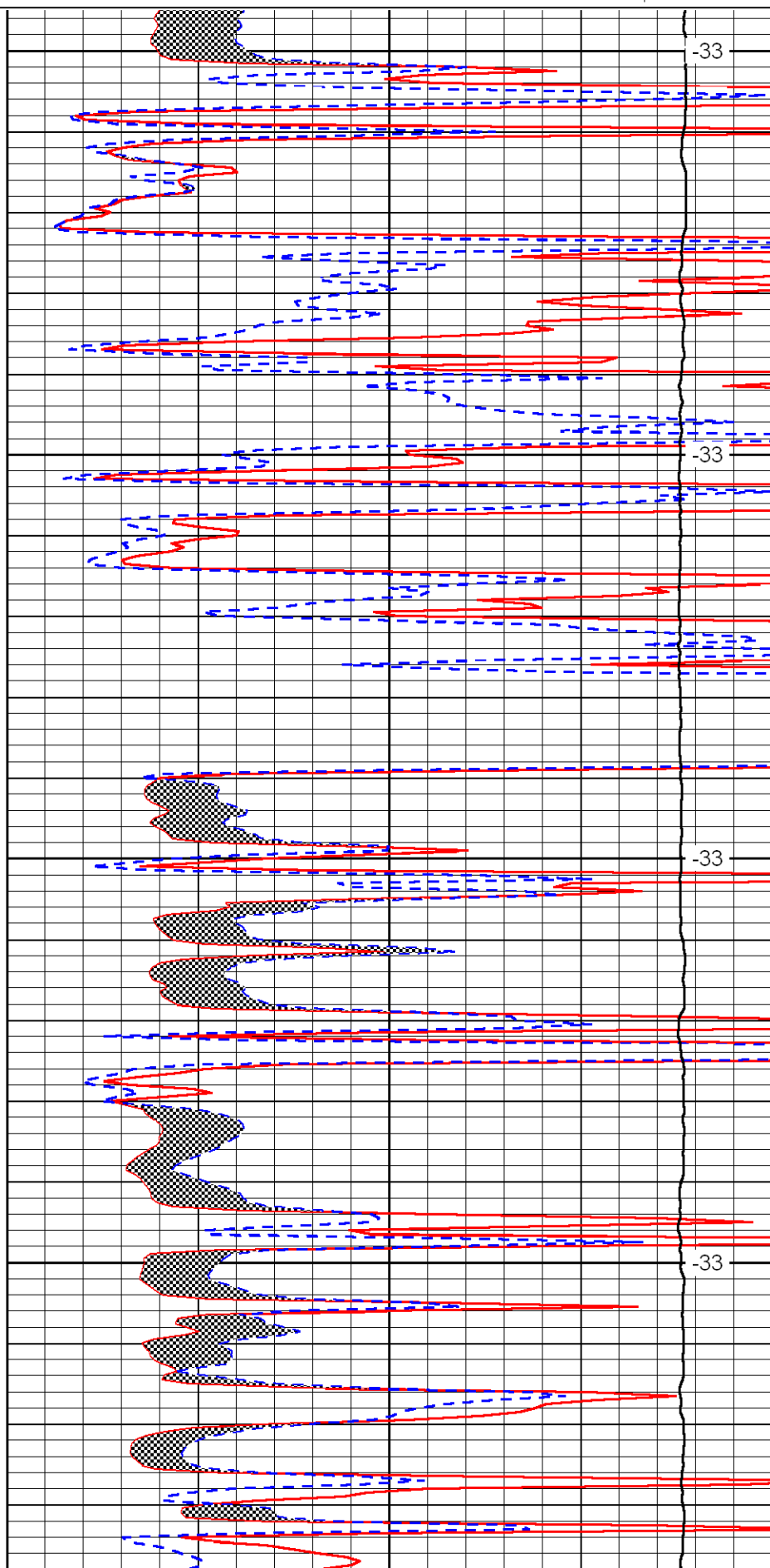
3650

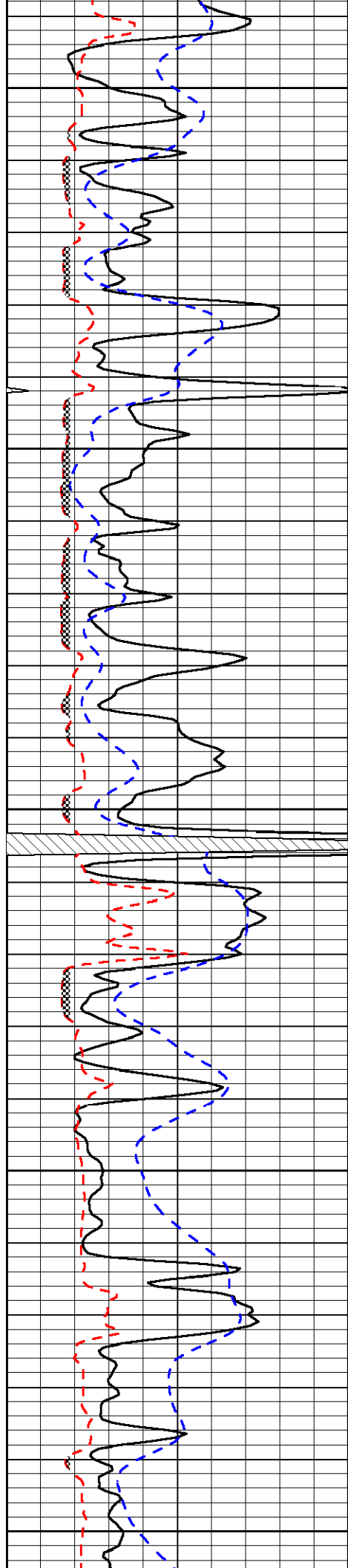
3700

3750

0	Micro Inverse 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
15000	Line Weight (lb)	0

LSPD
(ft/min)





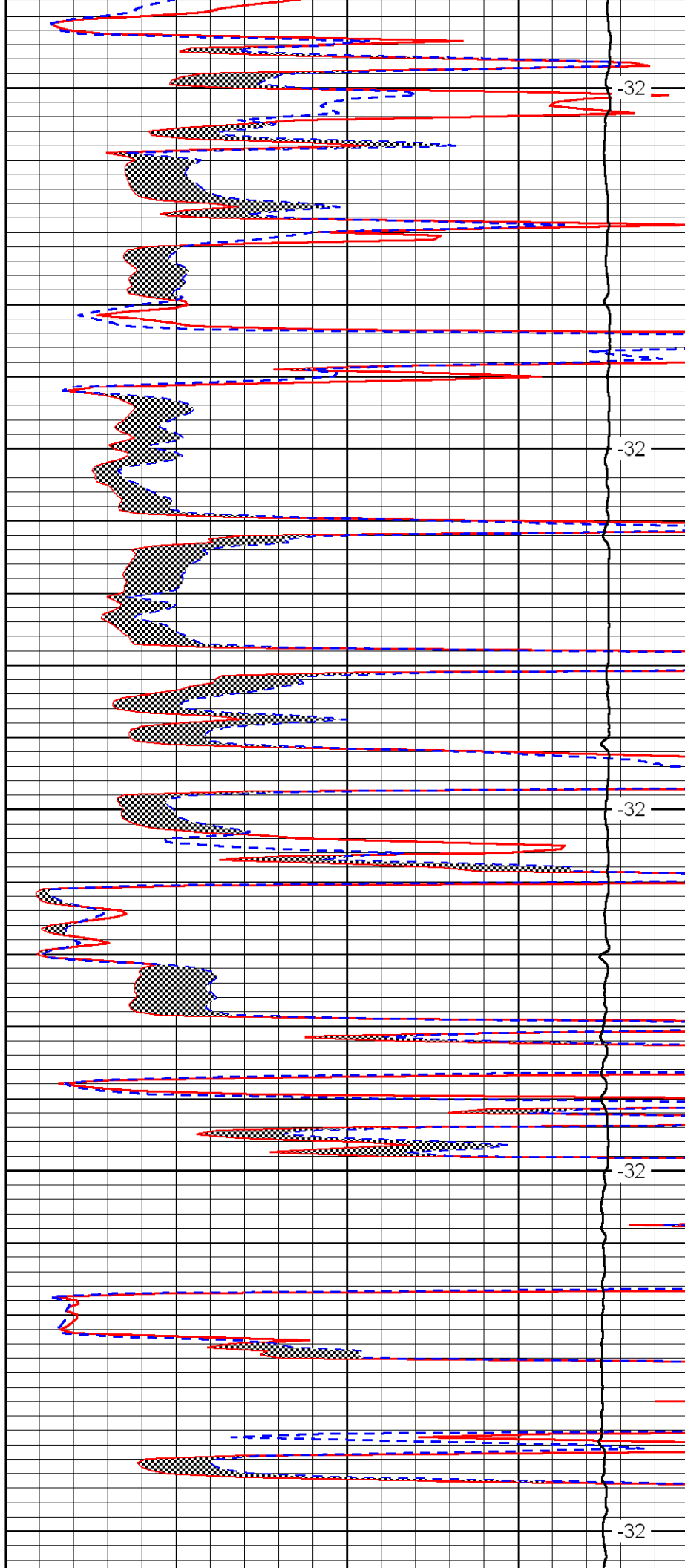
3800

3850

3900

3950

4000



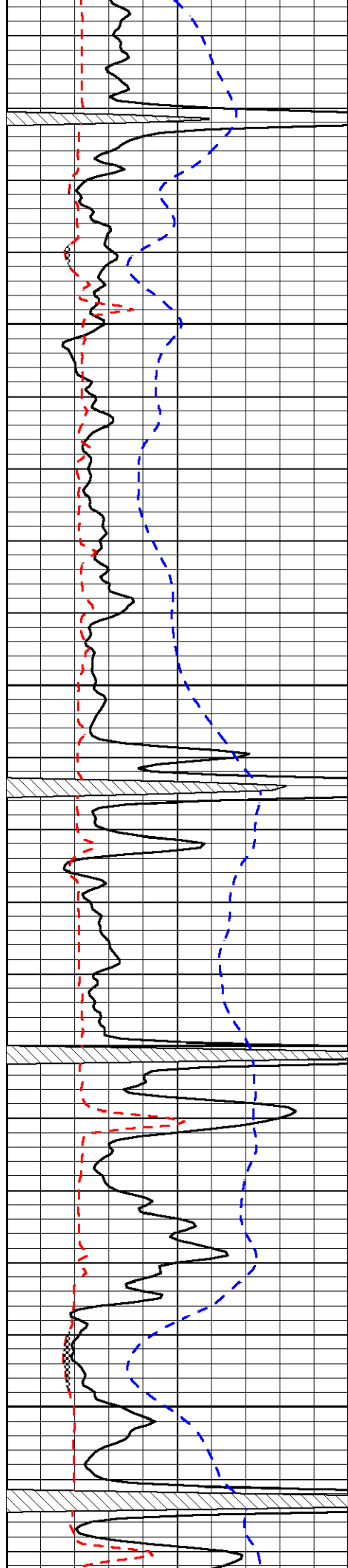
-32

-32

-32

-32

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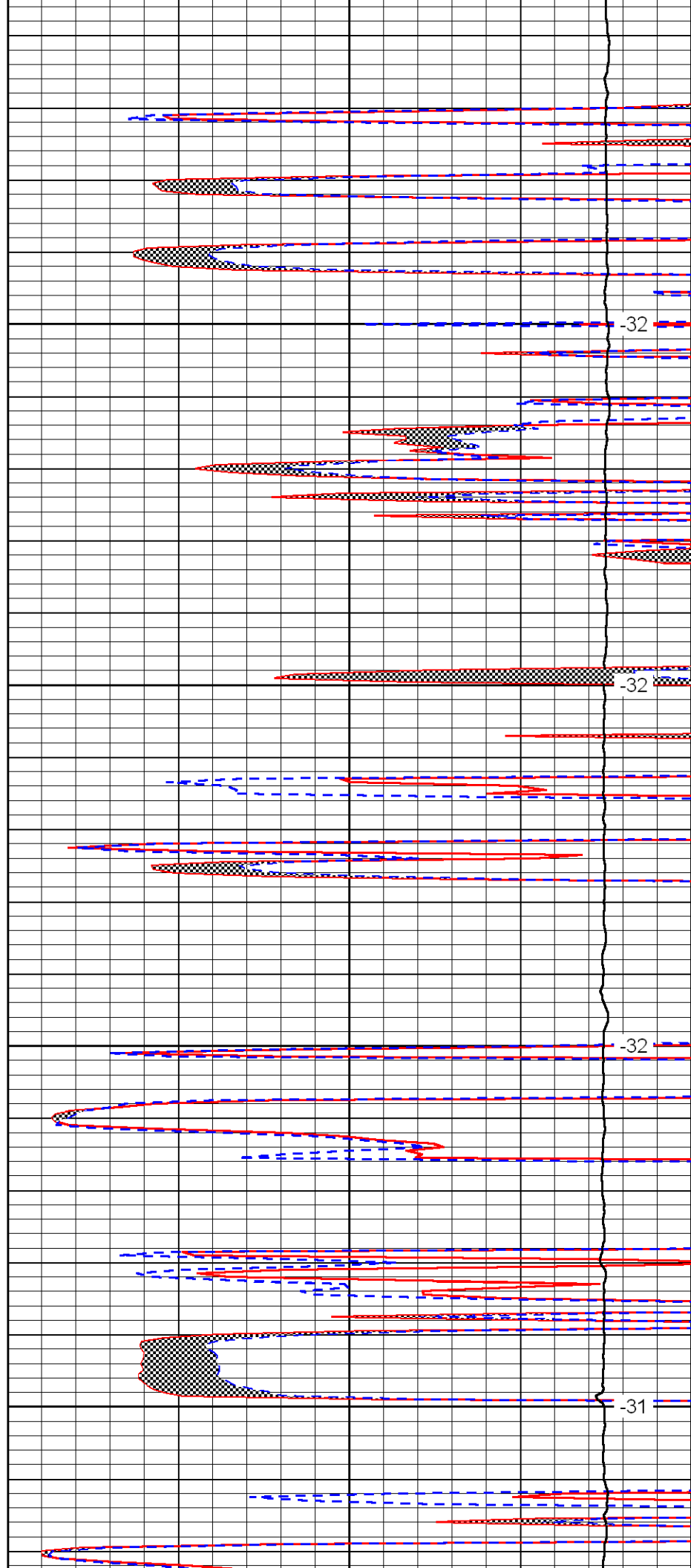


4050

4100

4150

4200

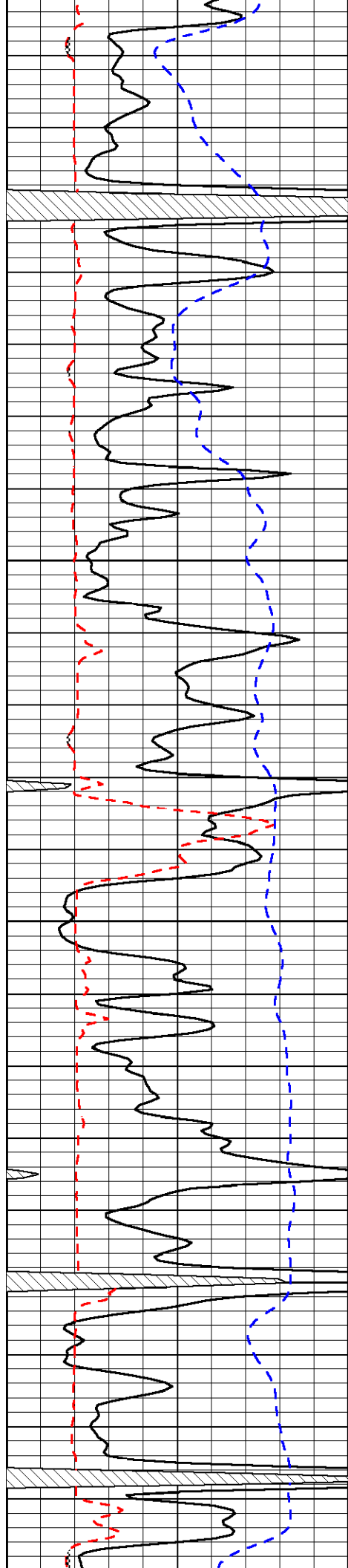


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-31

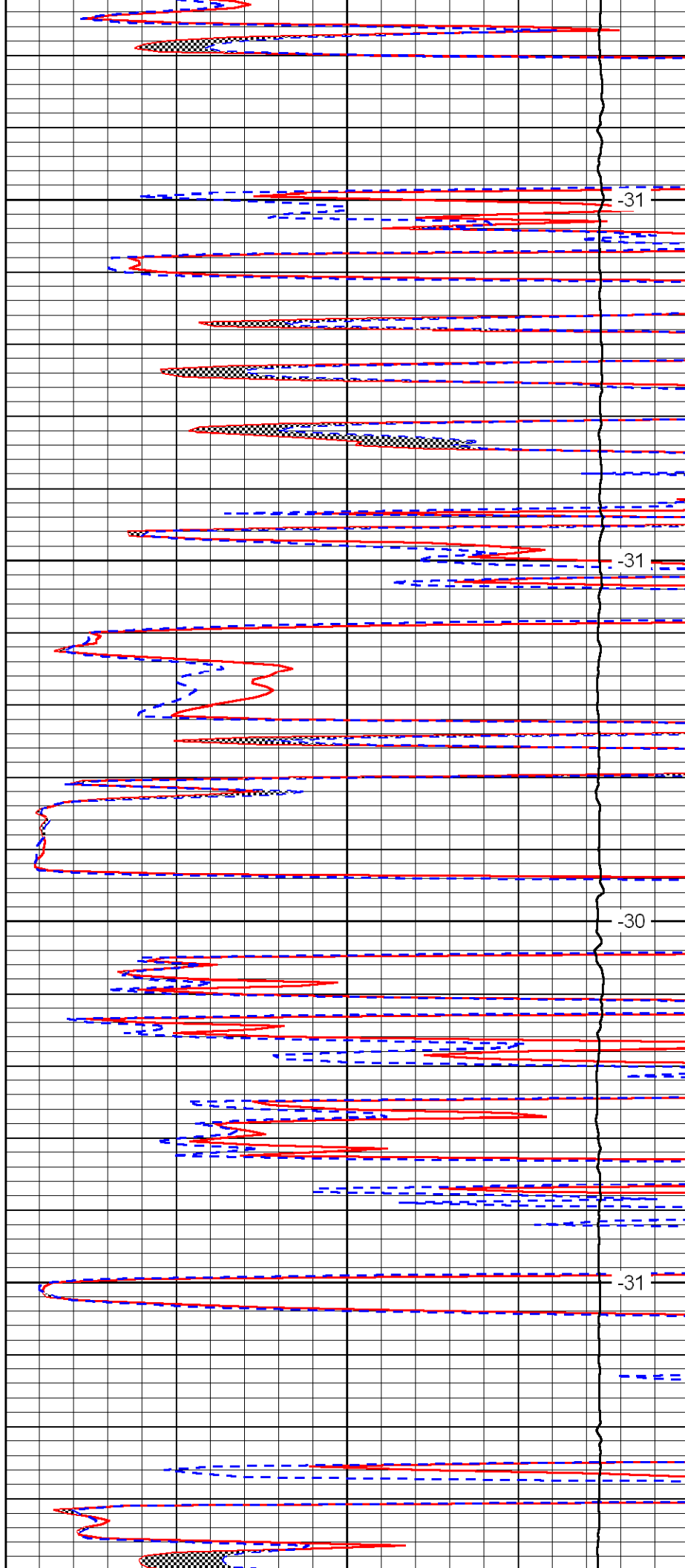


4250

4300

4350

4400

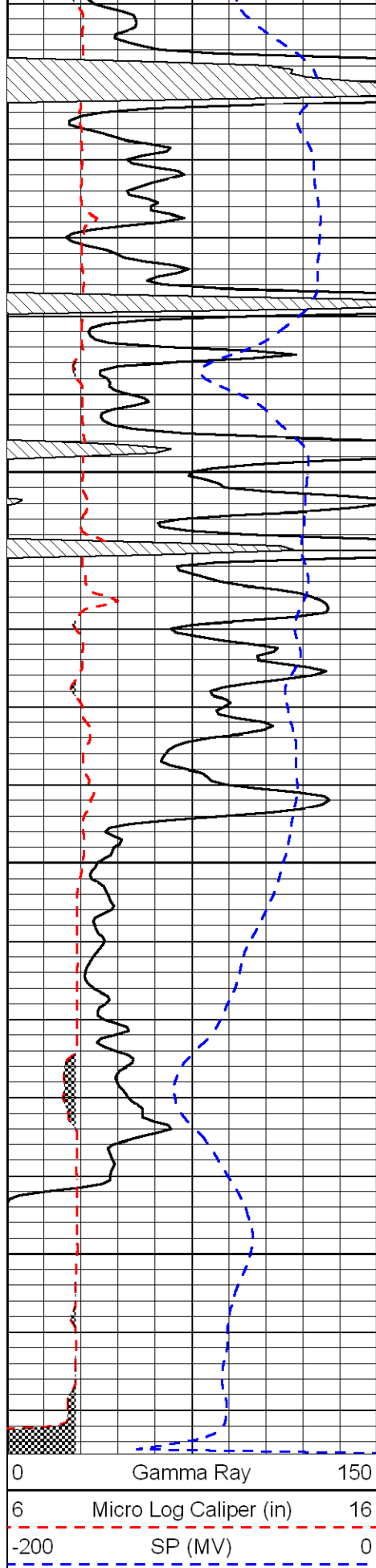


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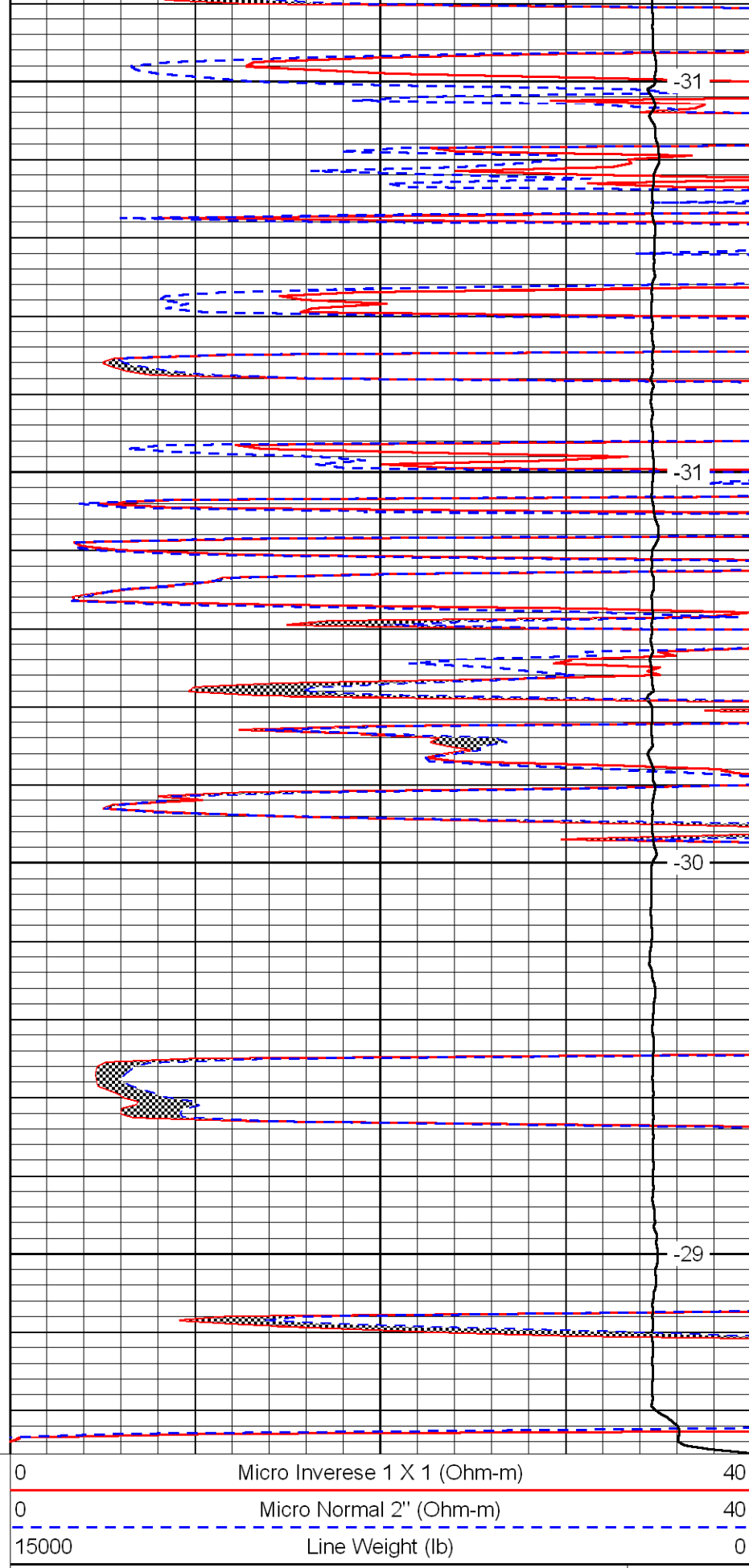
4450

4500

4550

4600

0 Gamma Ray 150
6 Micro Log Caliper (in) 16
-200 SP (MV) 0



-31

-31

-30

-29

0 Micro Inverse 1 X 1 (Ohm-m) 40
0 Micro Normal 2'' (Ohm-m) 40
15000 Line Weight (lb) 0

LSPD
(ft/min)