



Microresistivity Log

Pioneer Energy Services

API No.

15-051-26,360-00-00

Company John O. Farmer, Inc.
Well Froelich C No. 1 - 31
Field Emmerman Northeast
County Ellis State Kansas

Location

1050' FNL & 990' FEL

Sec: 27 Twp: 12 S Rge: 16 W

Other Services
CNL/CDL
DIL

Permanent Datum Ground Level Elevation 1948
Log Measured From Kelly Bushing 8 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Elevation

K.B. 1956
D.F. 1948
G.L. 1948

Date 9/4/2012

Run Number Two

Depth Driller 3500

Depth Logger 3505

Bottom Logged Interval 3504

Top Log Interval 2800

Casing Driller 8.625 @ 230

Casing Logger 230

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 2000

Density / Viscosity 8.8 58

pH / Fluid Loss 10.0 8.8

Source of Sample Flowline

Rm @ Meas. Temp 1.50 @ 79

Rmf @ Meas. Temp 1.13 @ 79

Rmc @ Meas. Temp 2.03 @ 79

Source of Rmf / Rmc Charts

Rm @ BHT 1.07 @ 111

Operating Rig Time 4 1/2 Hours

Max Rec. Temp. F 111

Equipment Number 17

Location Hays

Recorded By D. Martin

Witnessed By Austin Klaus

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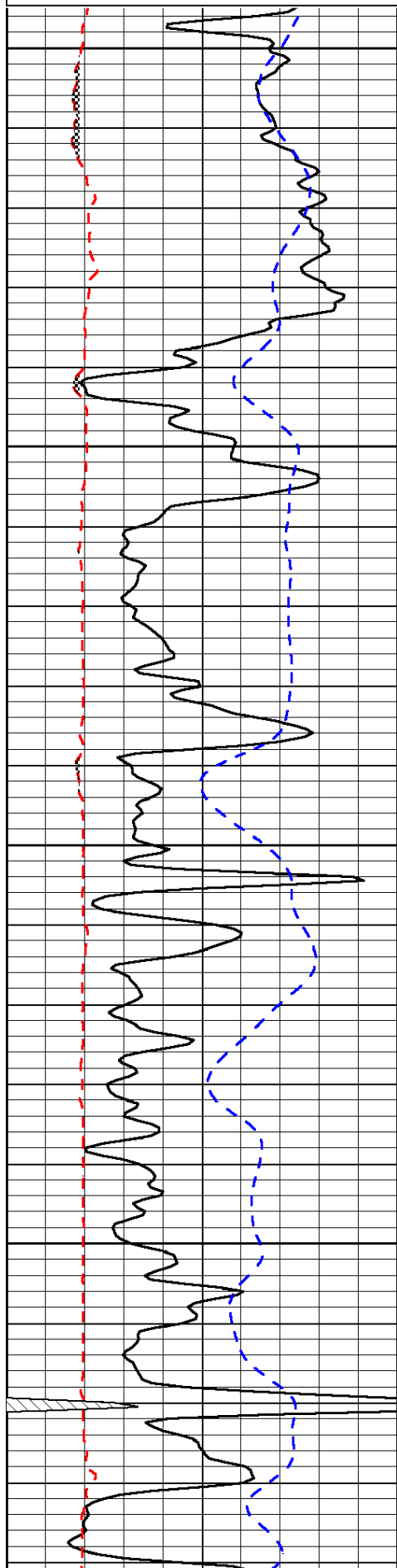
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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 Pioneer Energy Services
www.pioneerres.com
785 625 3858
Walker, KS
I-70 Exit, 6 1/2 N to Emmerman Rd.,
1 W, 1 N Hopewell, 1/2 E, N Into

Database File: c:\warrior\data\farmer_froelich c #1-31\johnhd.db
Dataset Pathname: DIL\johnstk
Presentation Format: micro
Dataset Creation: Tue Sep 04 15:07:14 2012
Charted by: Depth in Feet scaled 1:240

Charted by: Depth in Feet scaled 1:2.15		
0	Gamma Ray	150
6	Micro Log Caliper (GAPI)	16
-200	SP (mV)	0

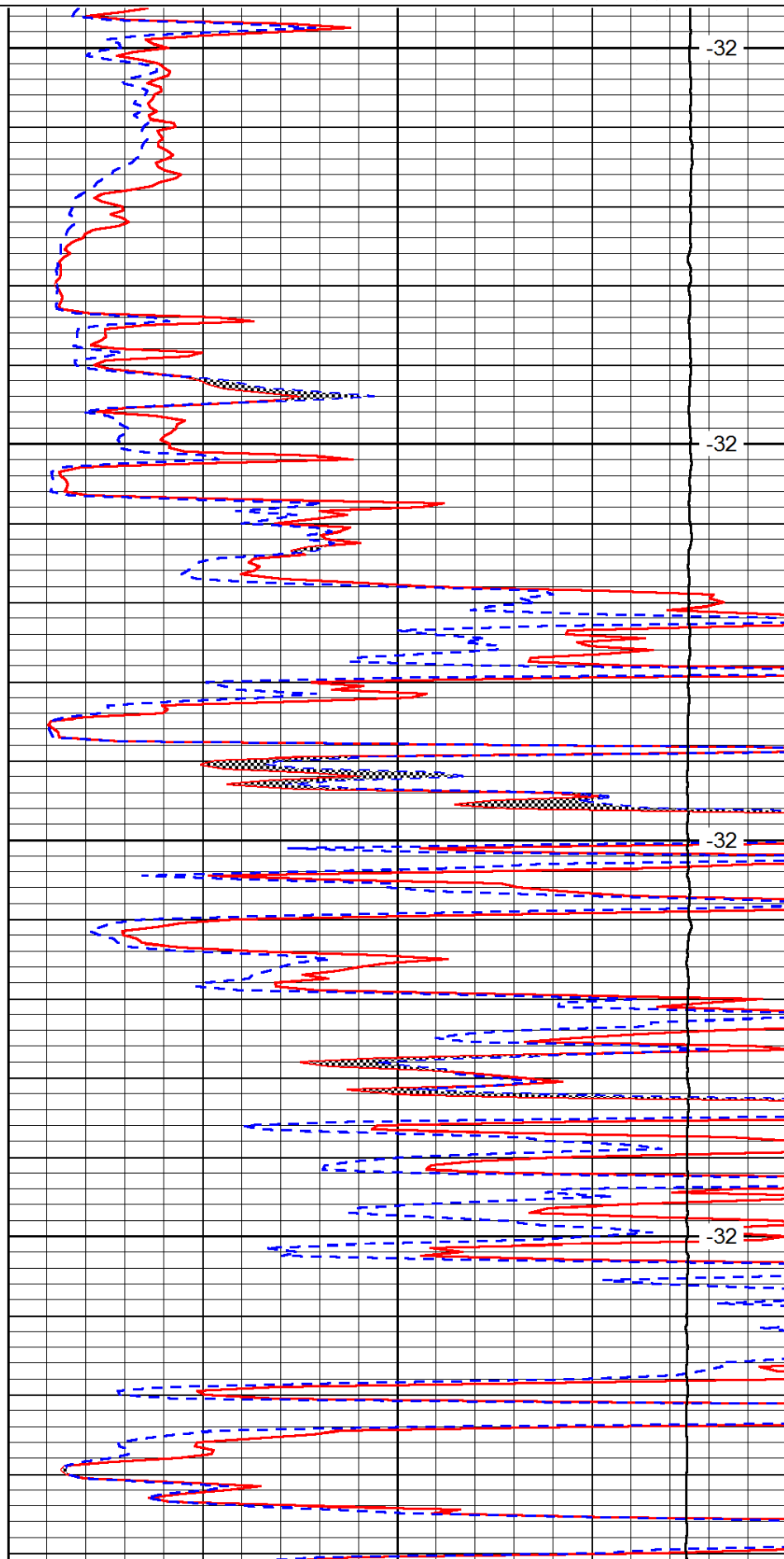


2800

2850

2900

2950



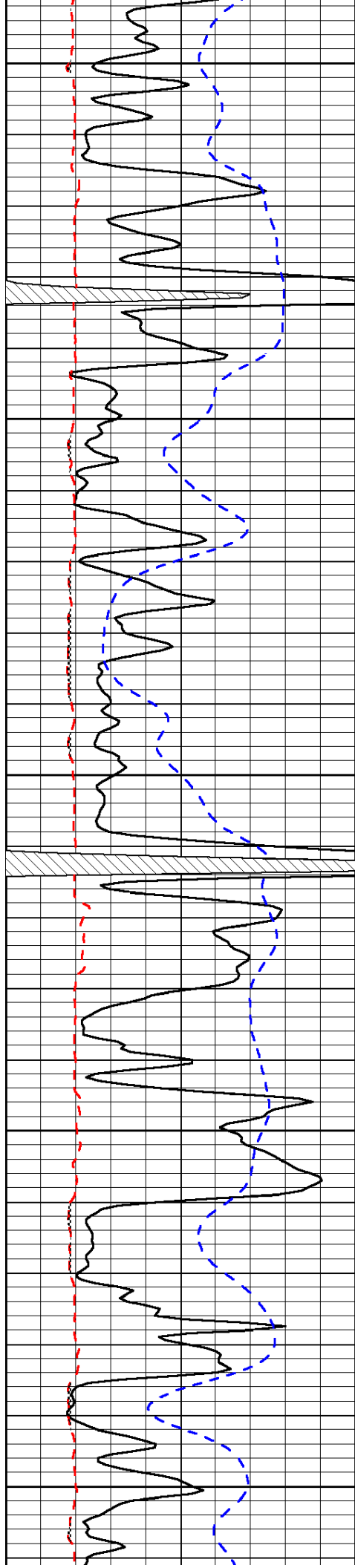
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-32

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-32

LSPD



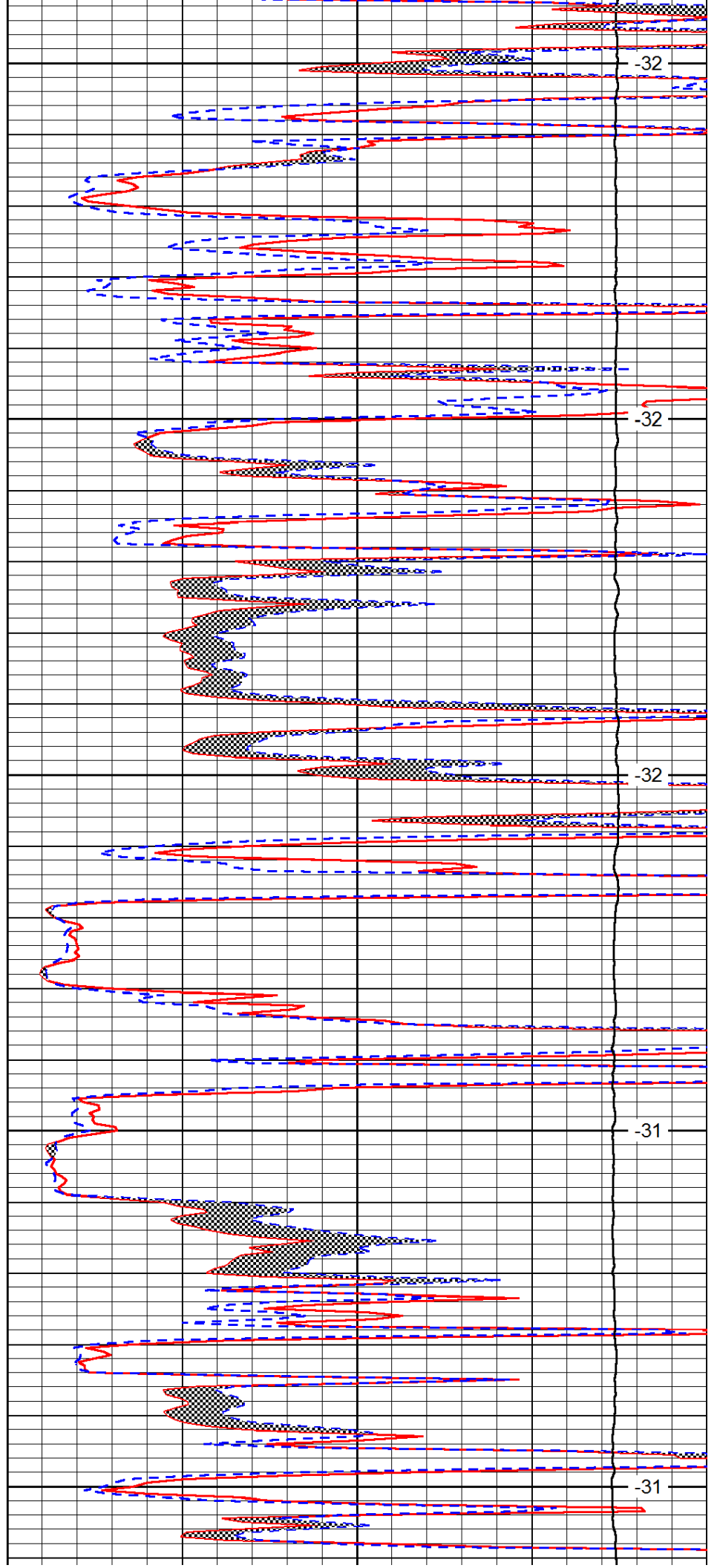
3000

3050

3100

3150

3200



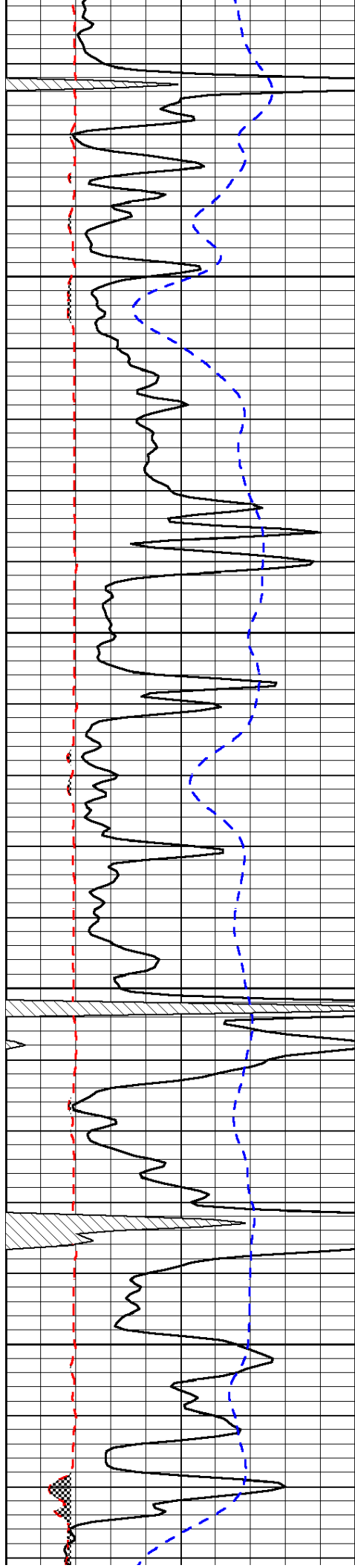
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-32

-32

-31

-31

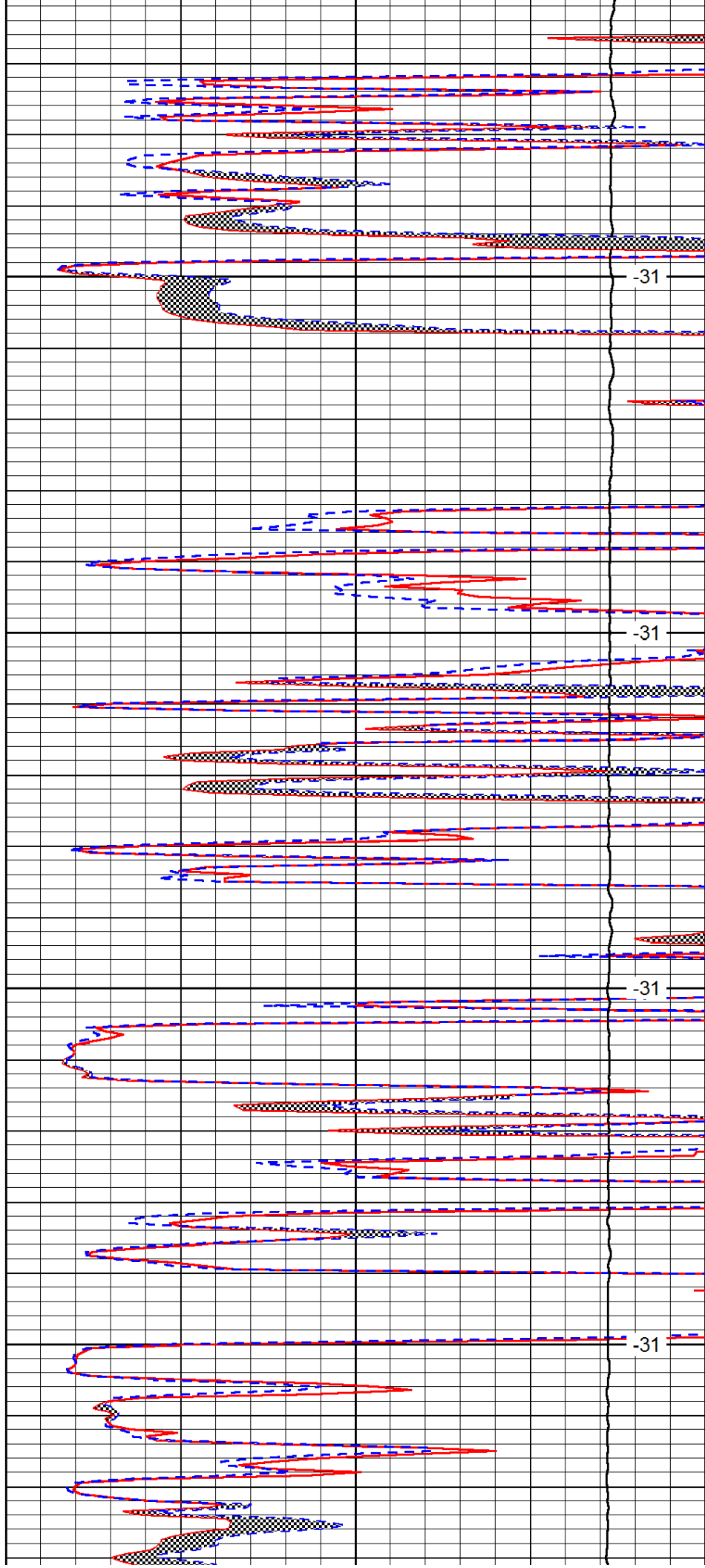


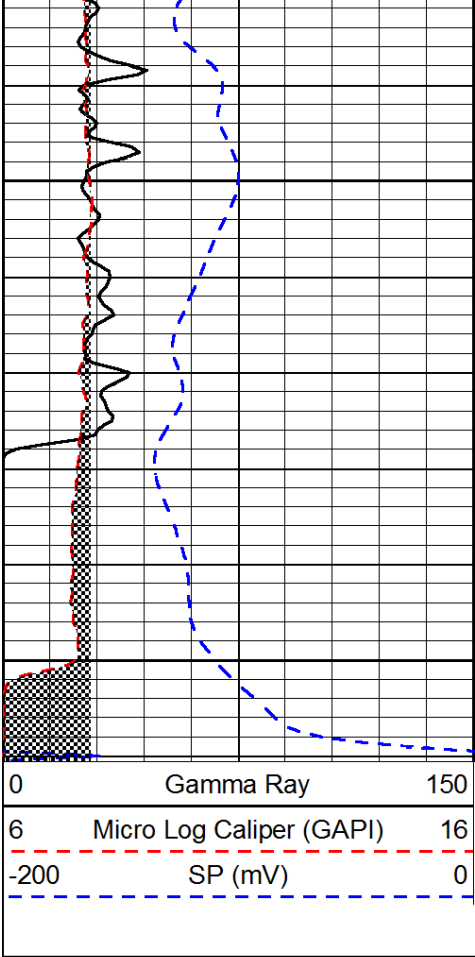
3250

3300

3350

3400





3450

3500

