



Pioneer Energy Services

Microresistivity Log

15-101-22538-00-00

API No.

Company **Larson Engineering, Inc.**

Well **Risley #1-36**

Field **Wildcat**

County **Lane** State **Kansas**

Location **1844' FNL & 588' FWL**

Sec: **36** Twp: **18S** Rge: **30W**

Permanent Datum **Ground Level** Elevation **2854**

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

Drilling Measured From **Kelly Bushing**

Other Services
CNL/CDL
DIL
Elevation
K.B. 2861
D.F. 2854
G.L. 2854

Date **10/2/2014**

Run Number **Two**

Depth Driller **4613**

Depth Logger **4614**

Bottom Logged Interval **4613**

Top Log Interval **3600**

Casing Driller **8.625 @ 256**

Casing Logger **256**

Bit Size **7.875**

Type Fluid in Hole **Chemical**

Salinity, ppm CL **3300**

Density / Viscosity **9.4 104**

pH / Fluid Loss **10.0 8.8**

Source of Sample **Flowline**

Rm @ Meas. Temp **0.70 @ 60**

Rmf @ Meas. Temp **0.53 @ 60**

Rmc @ Meas. Temp **0.95 @ 60**

Source of Rmf / Rmc **Charts**

Rm @ BHT **0.34 @ 124**

Operating Rig Time **4 Hours**

Max Rec. Temp. F **124**

Equipment Number **91**

Location **Hays**

Recorded By **D. Schmidt**

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

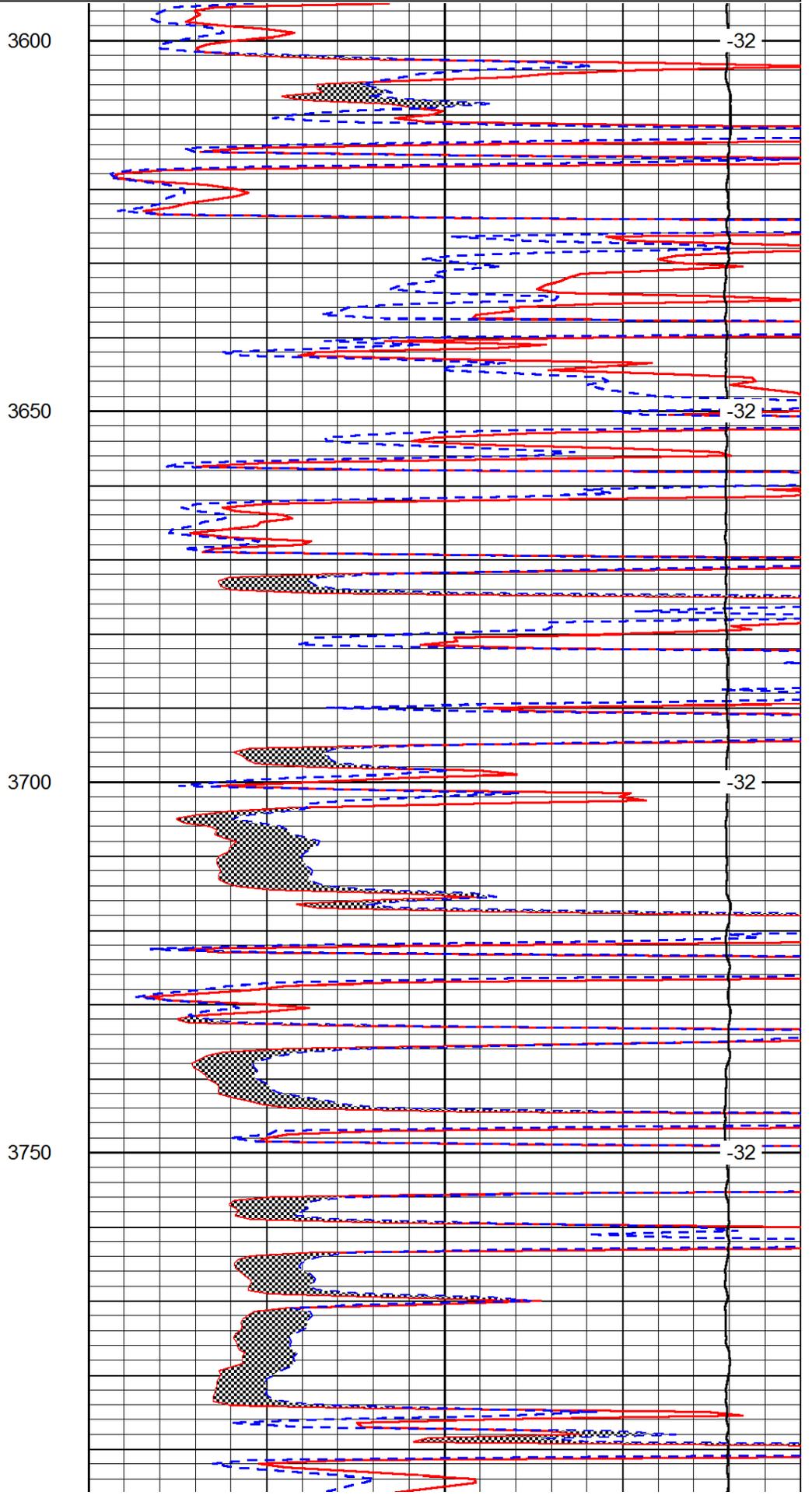
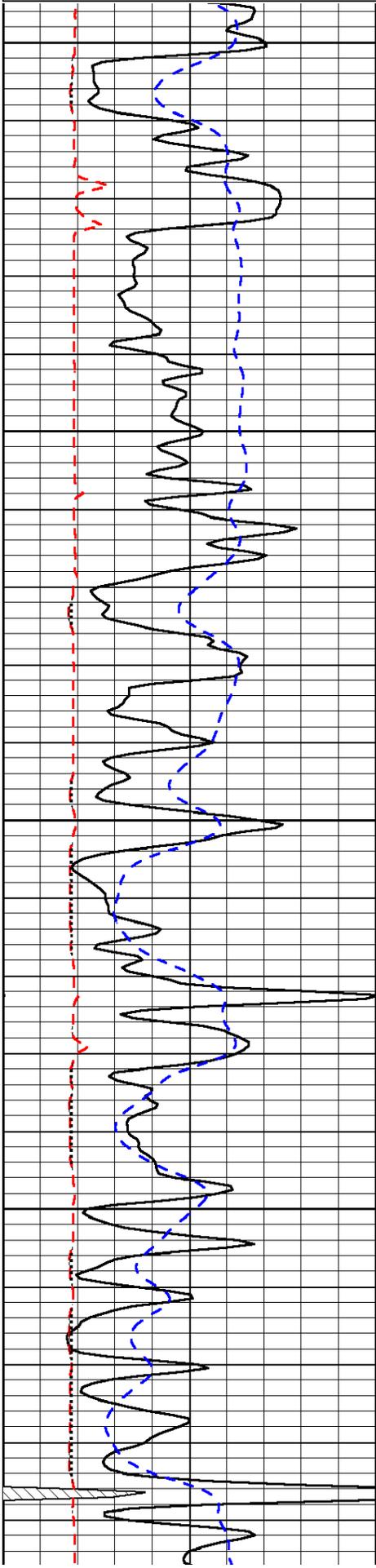
Thank you for using Pioneer Energy Services
www.pioneeres.com
 785 625 3858
 Dighton,
 7 West to Eagle Rd, 2 1/3 South,
 East into

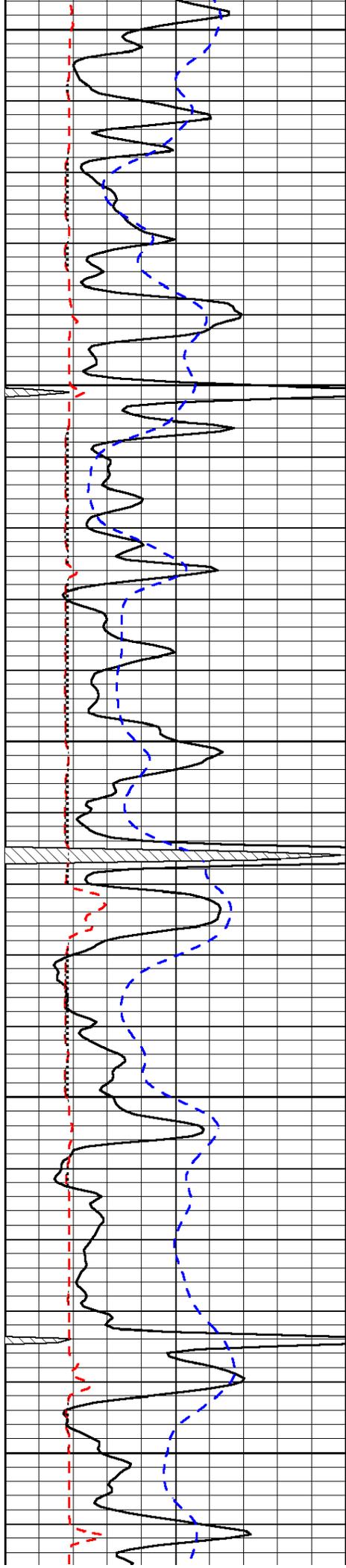
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 Dataset Creation: Thu Oct 02 02:57:34 2014
 Charted by: Depth in Feet scaled 1:240

| | | |
|------|--------------------------|-----|
| 0 | Gamma Ray | 150 |
| 6 | Micro Log Caliper (GAPI) | 16 |
| -200 | SP (mV) | 0 |

| | | |
|-------|---------------------|----|
| 0 | Micro Inverse 1 X 1 | 40 |
| 0 | Micro Normal 2" | 40 |
| 15000 | Line Weight | 0 |

LSPD





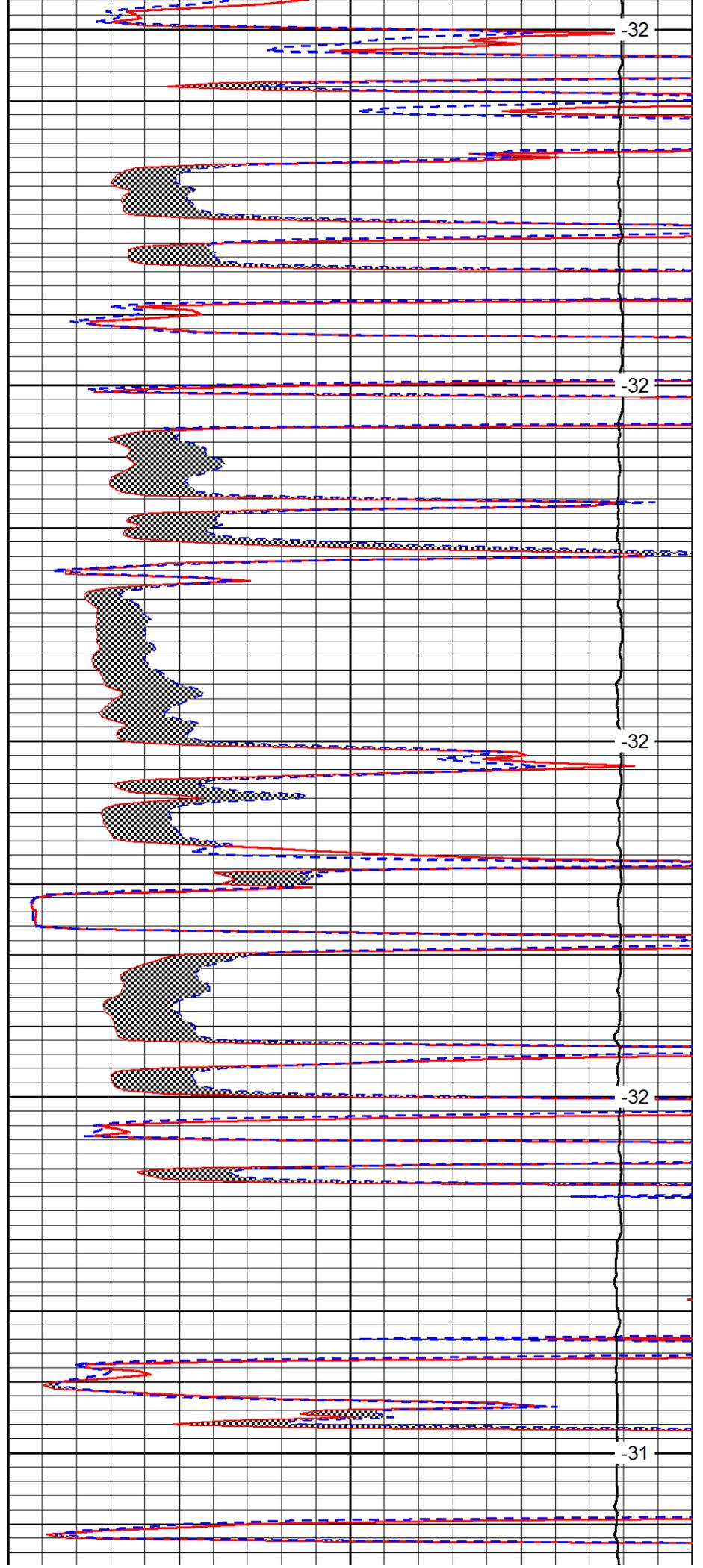
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3850

3900

3950

4000



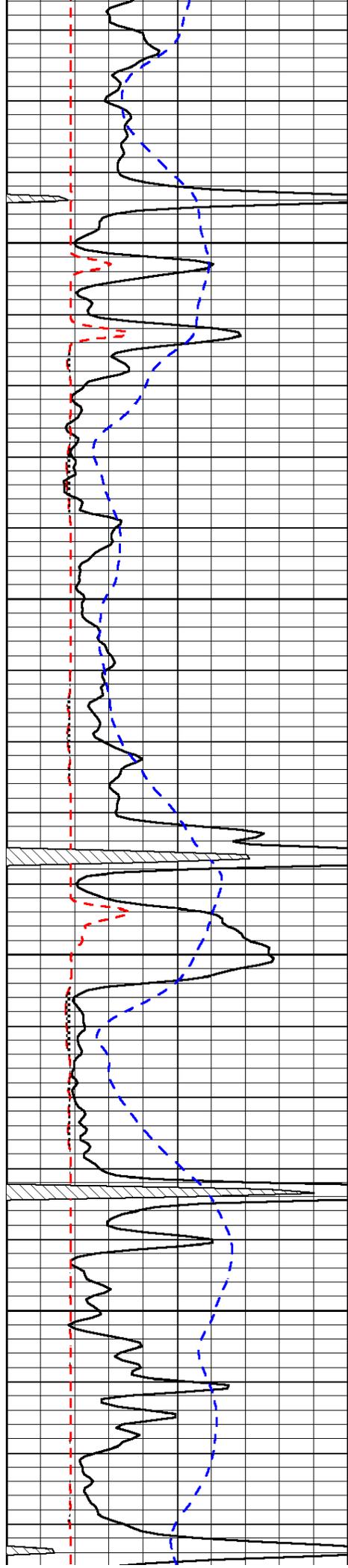
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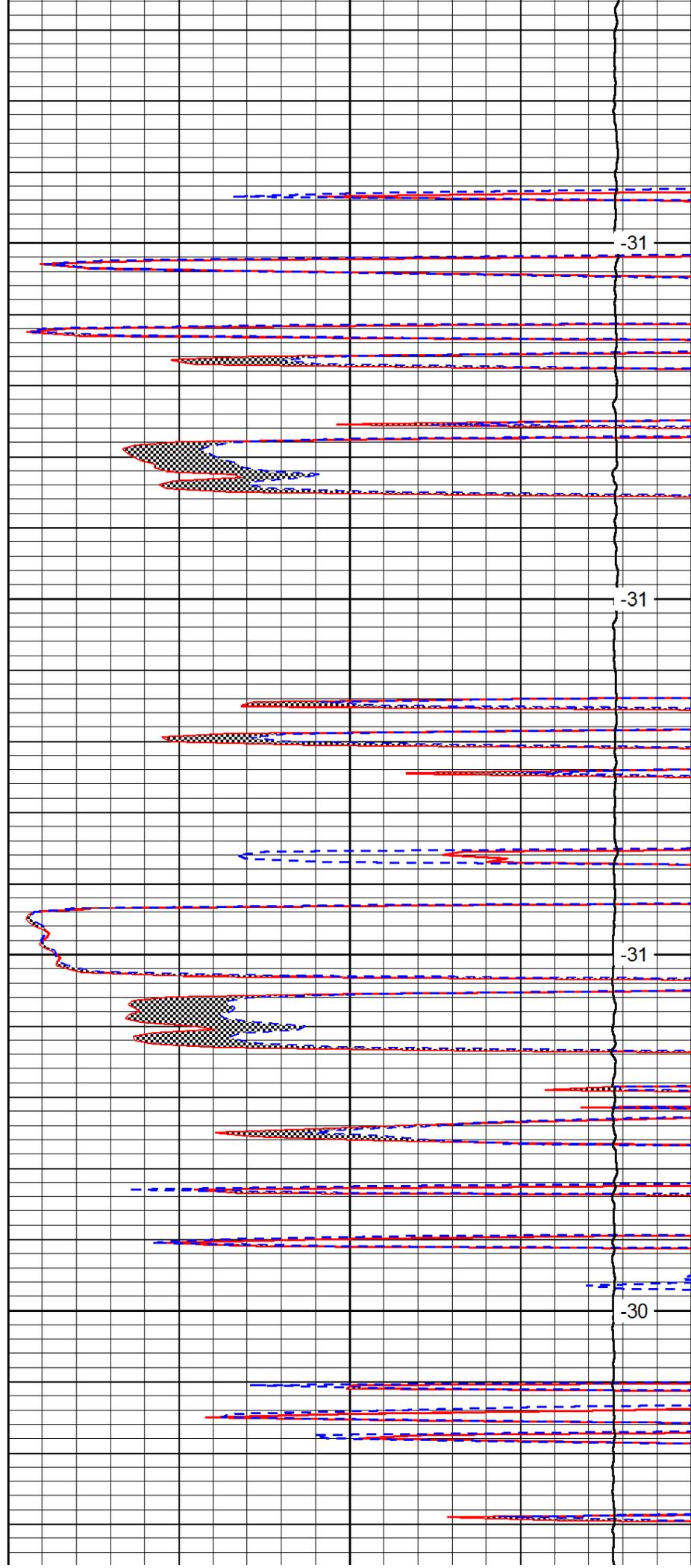


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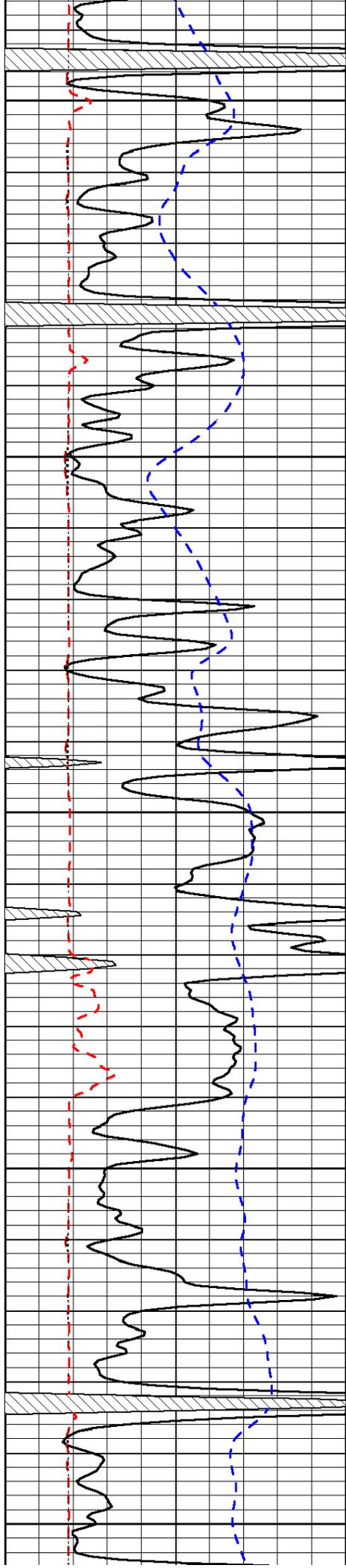


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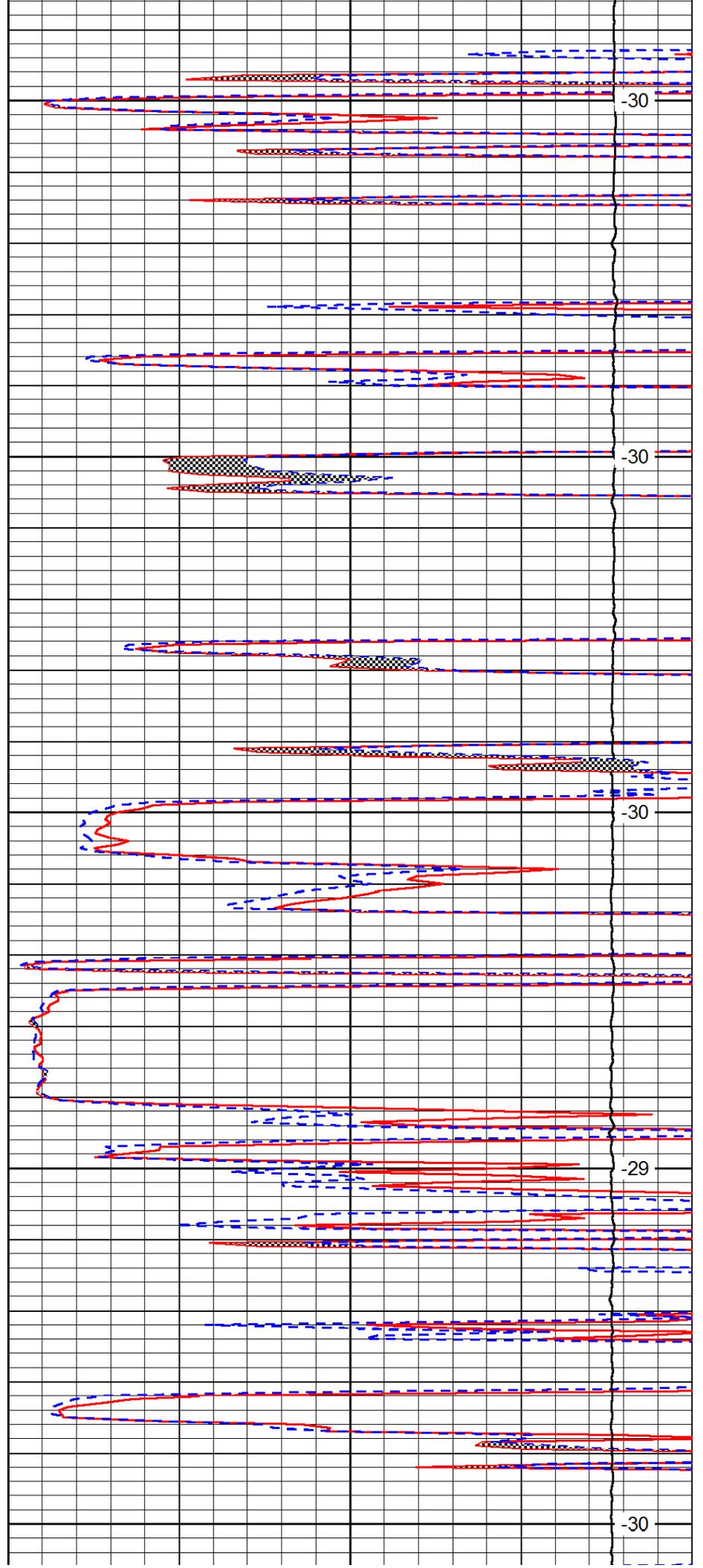
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4400

4450



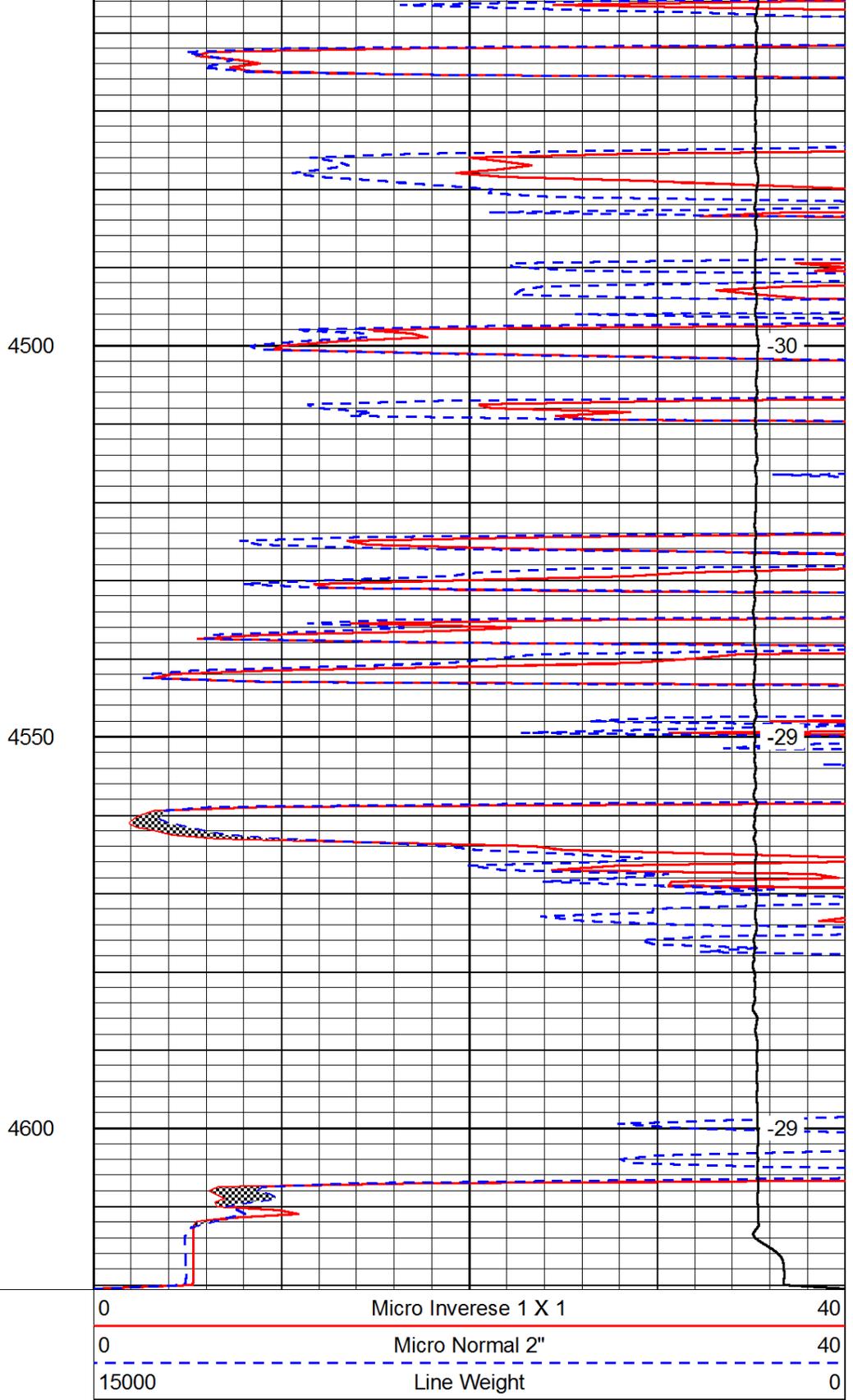
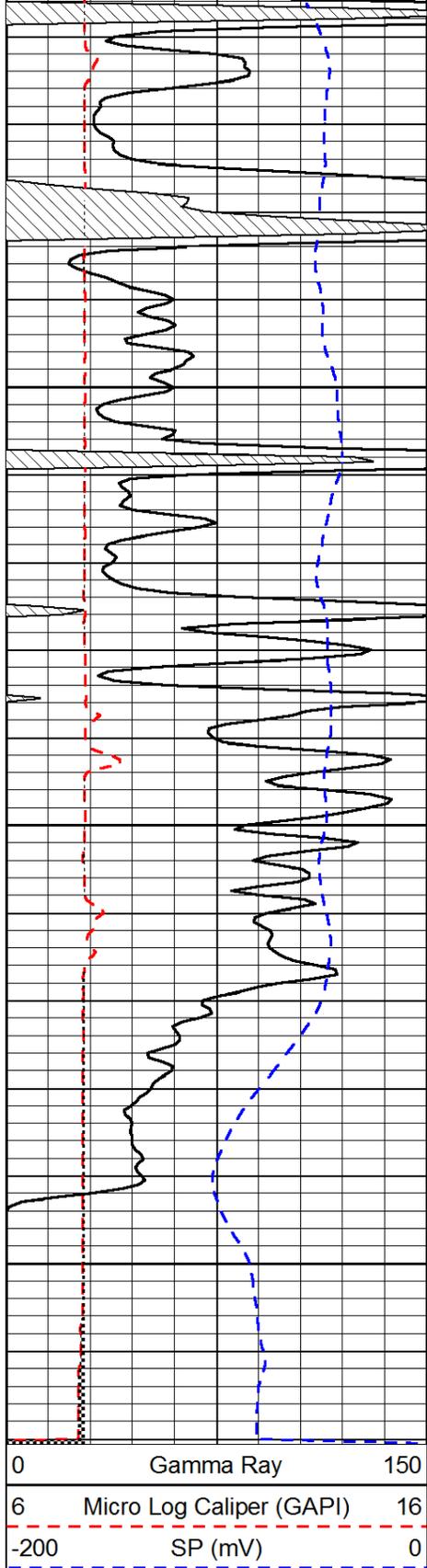
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