



Pioneer Energy Services

Microresistivity Log

15-163-24123-00-00

API No.

Company **Great Plains Energy, Inc.**

Well **Odle #1-8**

Field **Wildcat**

County **Rooks** State

Kansas

Location **480' FSL & 1650' FWL**

Sec: **8** Twp: **7S** Rge: **18W**

Other Services
CNL/CDL
DIL/BHCS

Permanent Datum **Ground Level** Elevation **1936**

Log Measured From **Kelly Bushing** 8 Ft. Above Perm. Datum

Drilling Measured From **Kelly Bushing**

Elevation
K.B. 1944
D.F. 1944
G.L. 1936

Date **6/14/2013**

Run Number **Two**

Depth Driller **3509**

Depth Logger **3507**

Bottom Logged Interval **3506**

Top Log Interval **2800**

Casing Driller **8.625 @ 220**

Casing Logger **224**

Bit Size **7.875**

Type Fluid in Hole **Chemical**

Salinity, ppm CL **2000**

Density / Viscosity **9.2 49**

pH / Fluid Loss **10.5 7.2**

Source of Sample **Flowline**

Rm @ Meas. Temp **0.32 @ 84**

Rmf @ Meas. Temp **0.24 @ 84**

Rmc @ Meas. Temp **0.43 @ 84**

Source of Rmf / Rmc **Charts**

Rm @ BHT **0.24 @ 113**

Operating Rig Time **4 1/2 Hours**

Max Rec. Temp. F **113**

Equipment Number **91**

Location **Hays**

Recorded By **D. Schmidt**

Witnessed By **Mike Madcharo**

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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

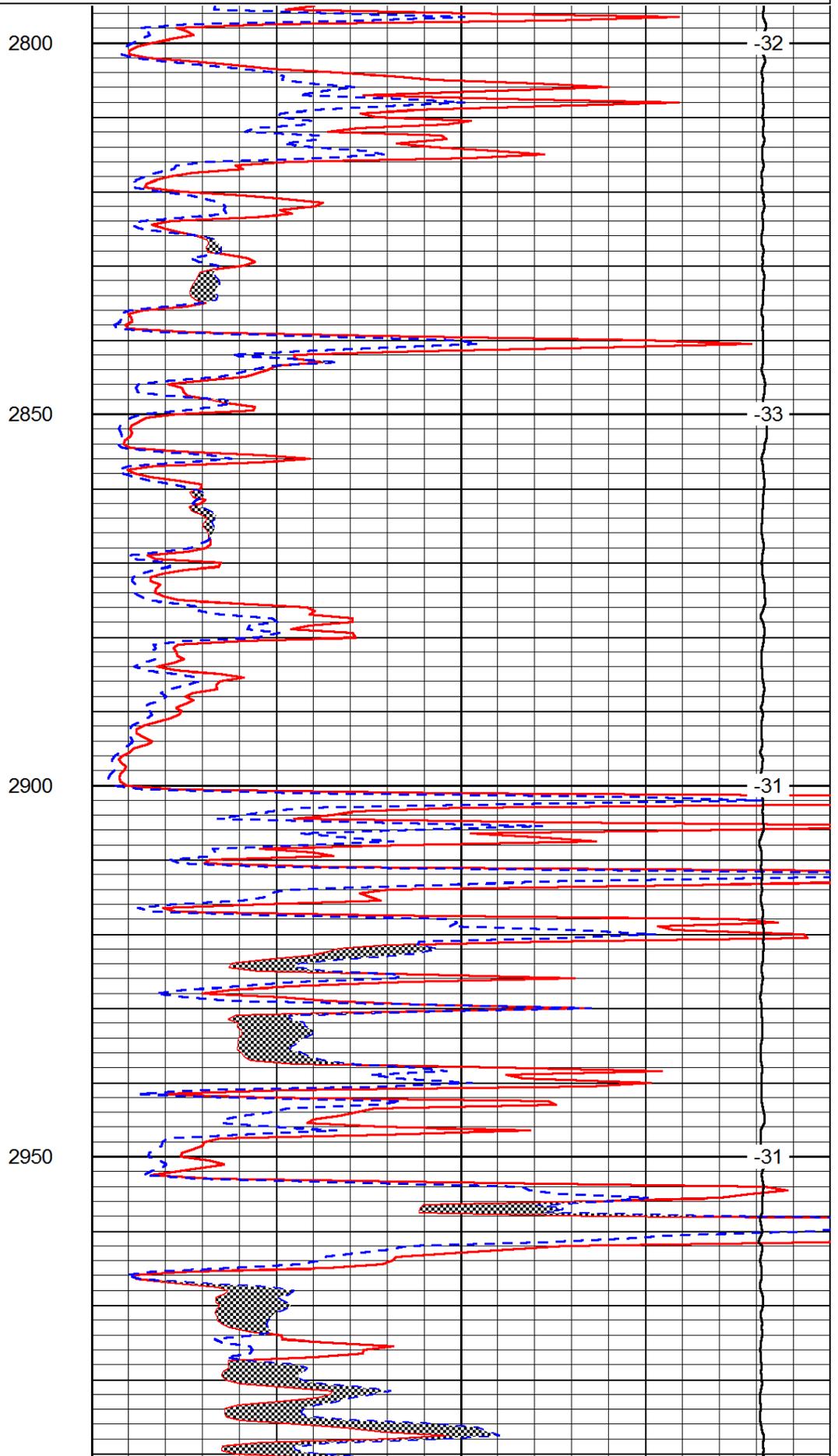
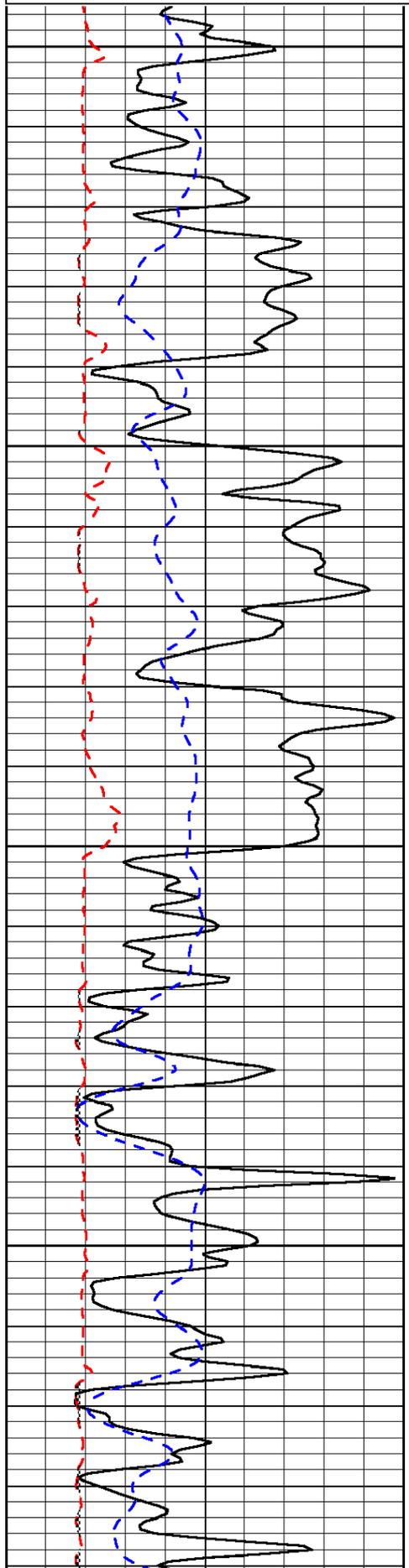
Thank you for using Pioneer Energy Services
www.pioneerenergy.com
 785 625 3858
 Stockton,
 4 3/4 West to 14 Rd, 2 North,
 North and East into

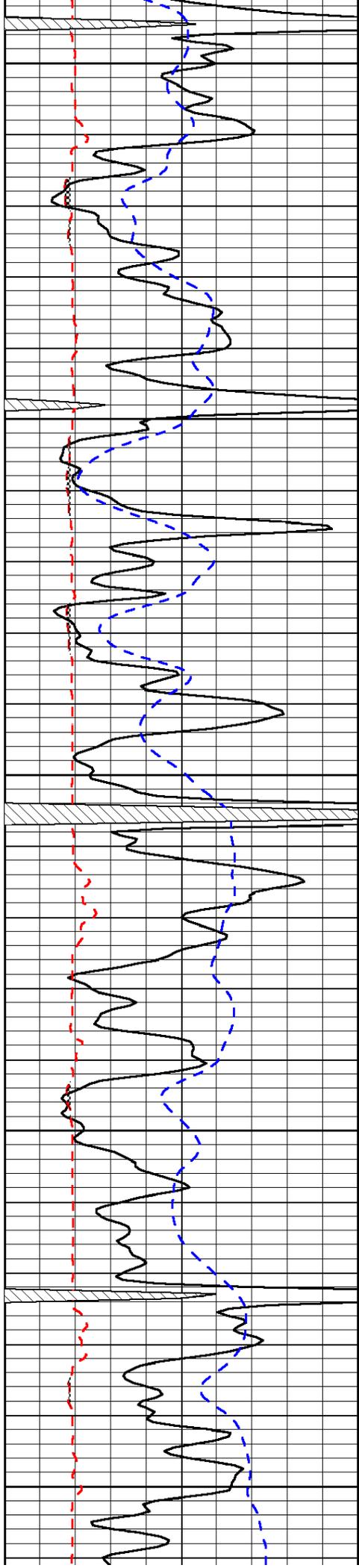
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 Presentation Format: micro
 Dataset Creation: Fri Jun 14 15:58:25 2013
 Charted by: Depth in Feet scaled 1:240

| | | |
|------|--------------------------|-----|
| 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





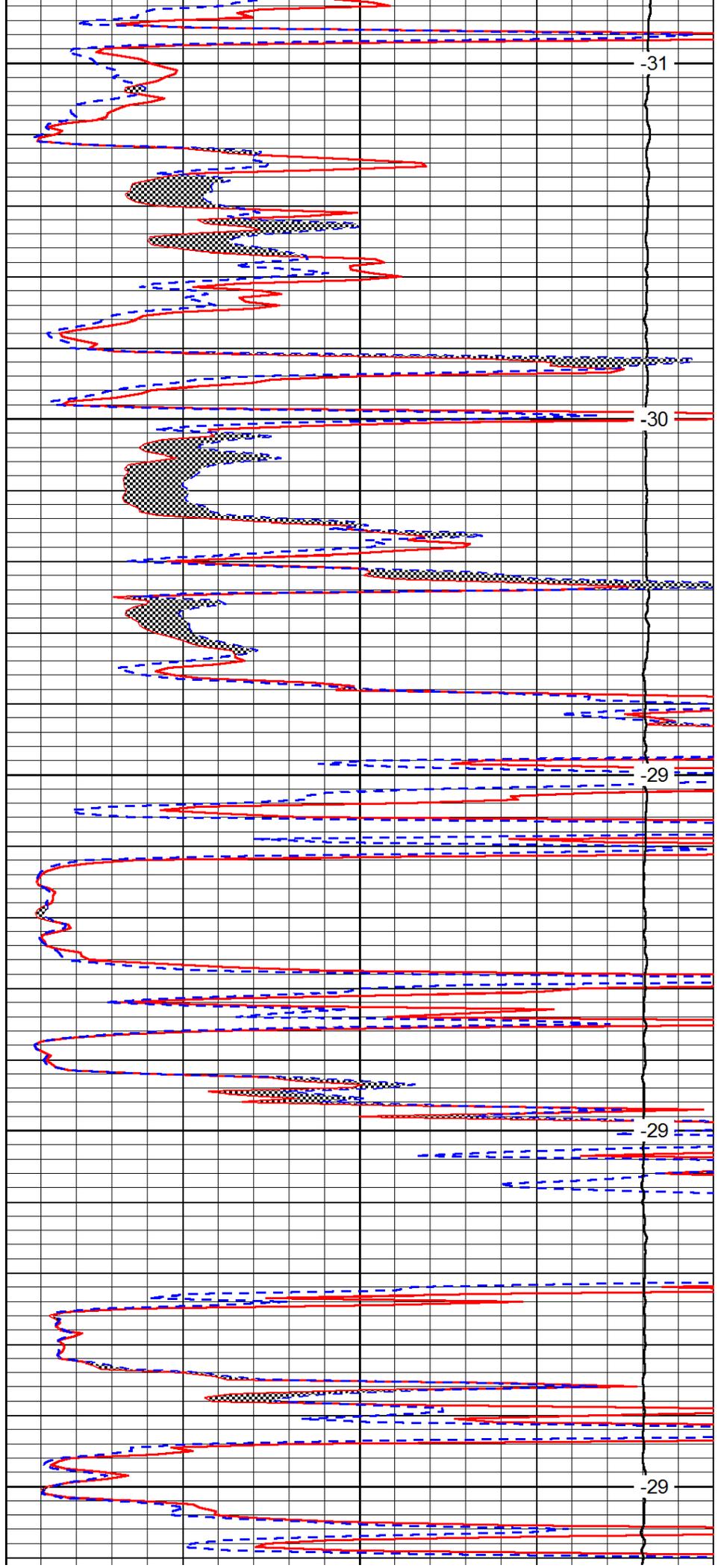
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3050

3100

3150

3200



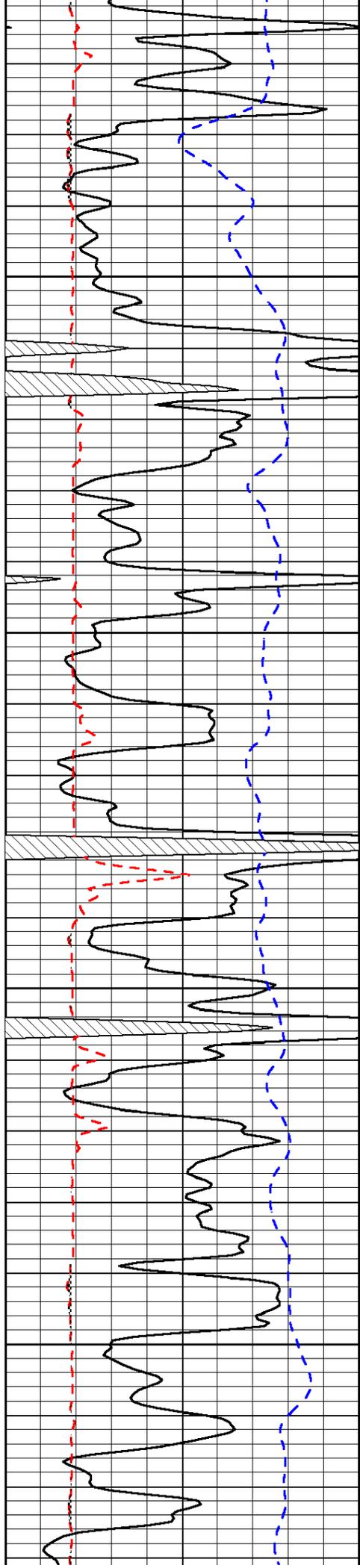
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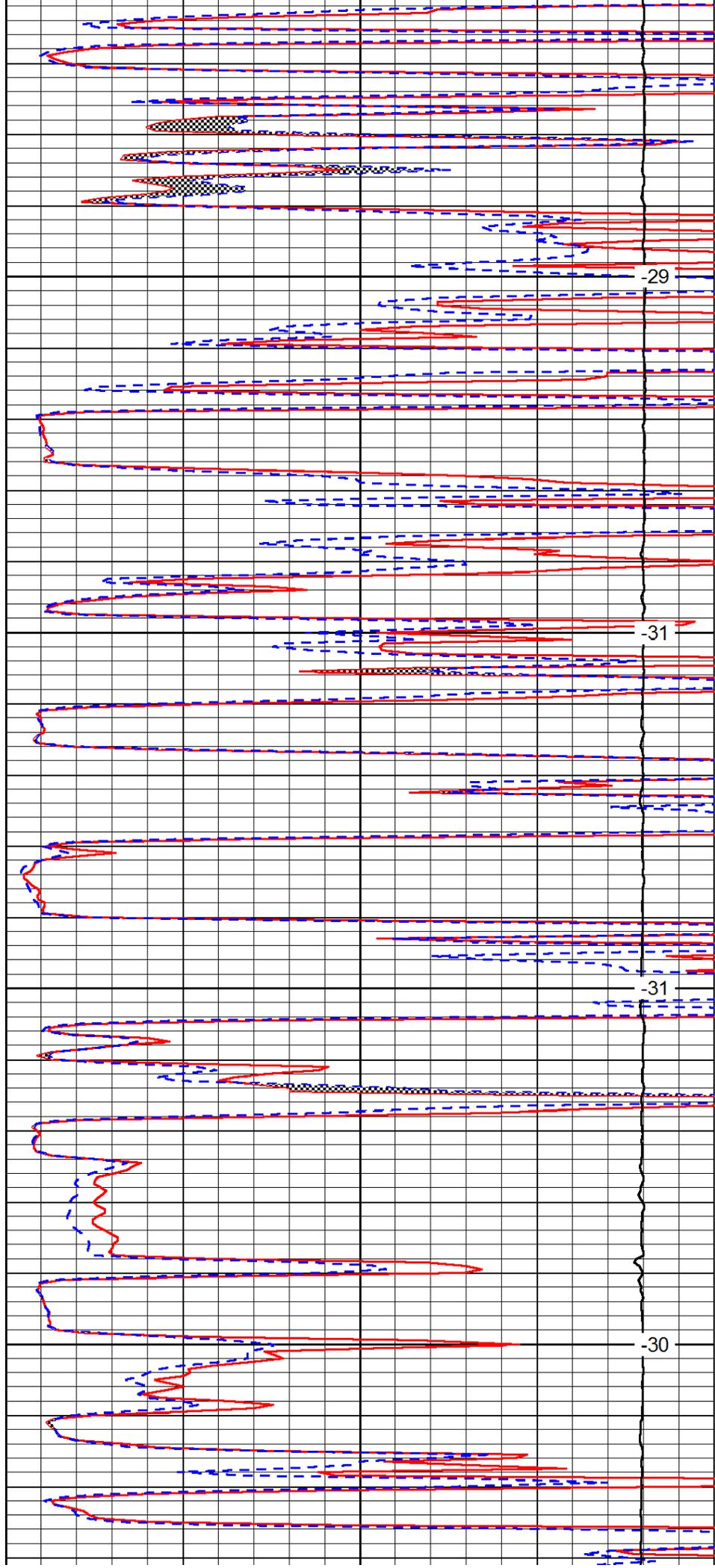


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3350

3400

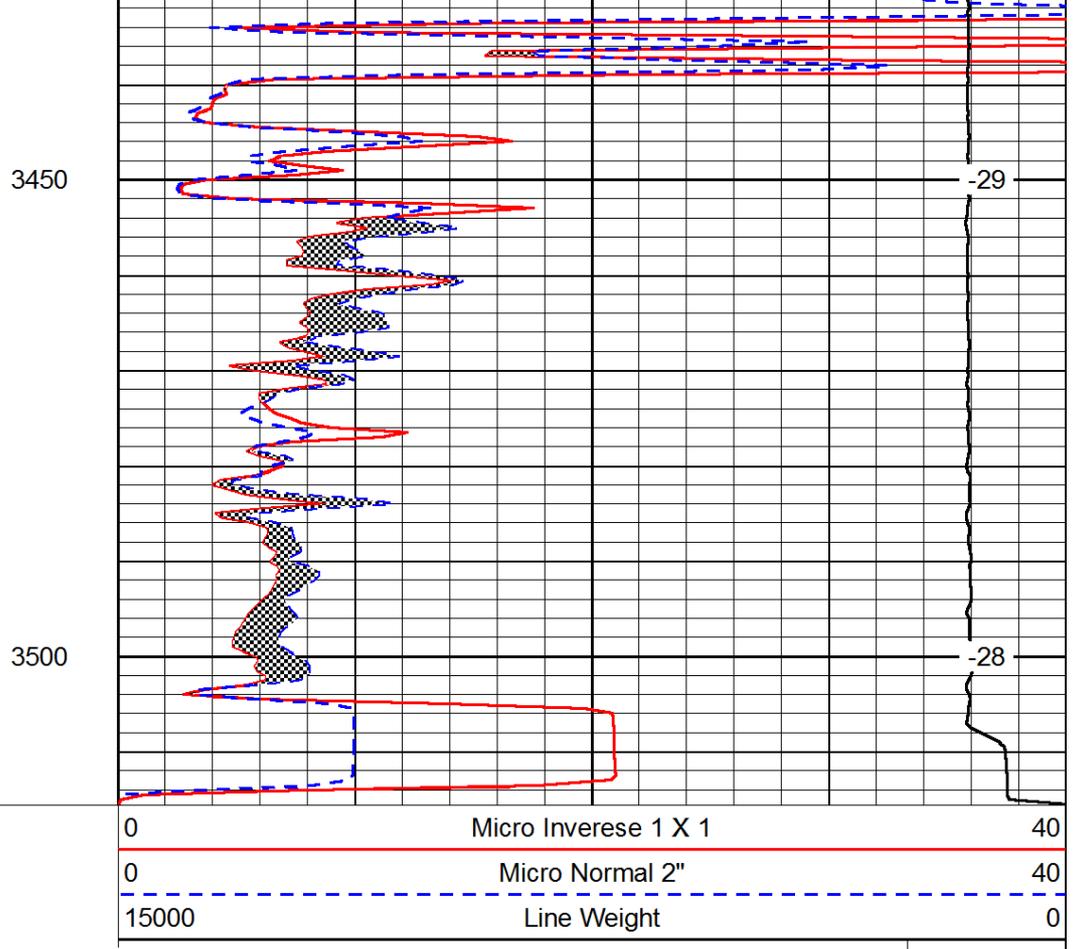
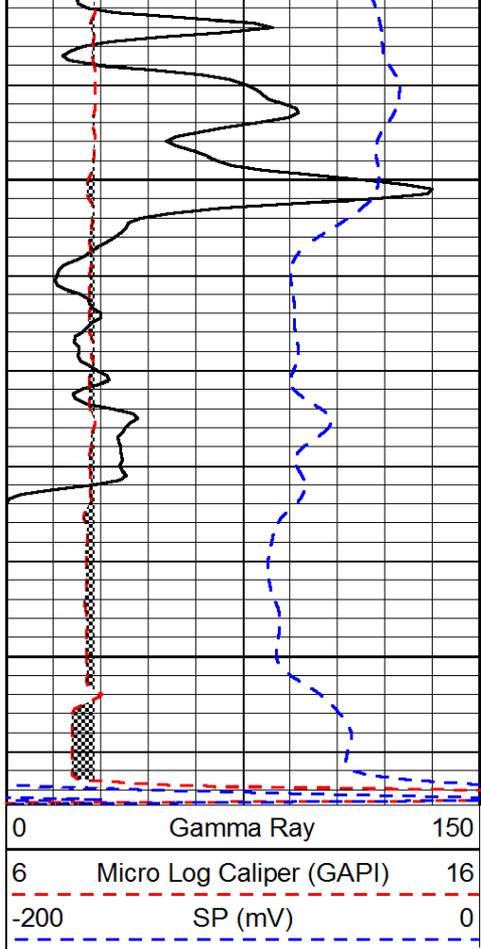


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