



# Microresistivity Log

Pioneer Energy Services

API No.

15-009-25,822-00-00

Company Kirby Krier Oil, Inc.  
Well Bernard Krier No. 1  
Field Schepmann  
County Barton State Kansas

Location 2,300' FSL & 1,400' FEL

Sec: 17 Twp: 18S Rge: 11W

Other Services  
CNL/CDL  
DIL/BHCS

Elevation

Permanent Datum Ground Level Elevation 1807  
Log Measured From Kelly Bushing 7 Ft. Above Perm. Datum  
Drilling Measured From Kelly Bushing

K.B. 1814  
D.F. 1807  
G.L. 1807

Date

4/20/2013

Run Number

Two

Depth Driller

3475

Depth Logger

3470

Bottom Logged Interval

3469

Top Log Interval

2700

Casing Driller

8.625 @ 296

Casing Logger

291

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

6000

Density / Viscosity

9.2 68  
8.5 8.8

pH / Fluid Loss

8.5

Source of Sample

Flowline

Rm @ Meas. Temp

.30 @ 58

Rmf @ Meas. Temp

.23 @ 58

Rmc @ Meas. Temp

.41 @ 58

Source of Rmf / Rmc

Charts

Rm @ BHT

.16 @ 111

Operating Rig Time

4 1/2 Hours

Max Rec. Temp. F

111

Equipment Number

108

Location

Hays

Recorded By

J. Long

Witnessed By

Kurt Talbott

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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

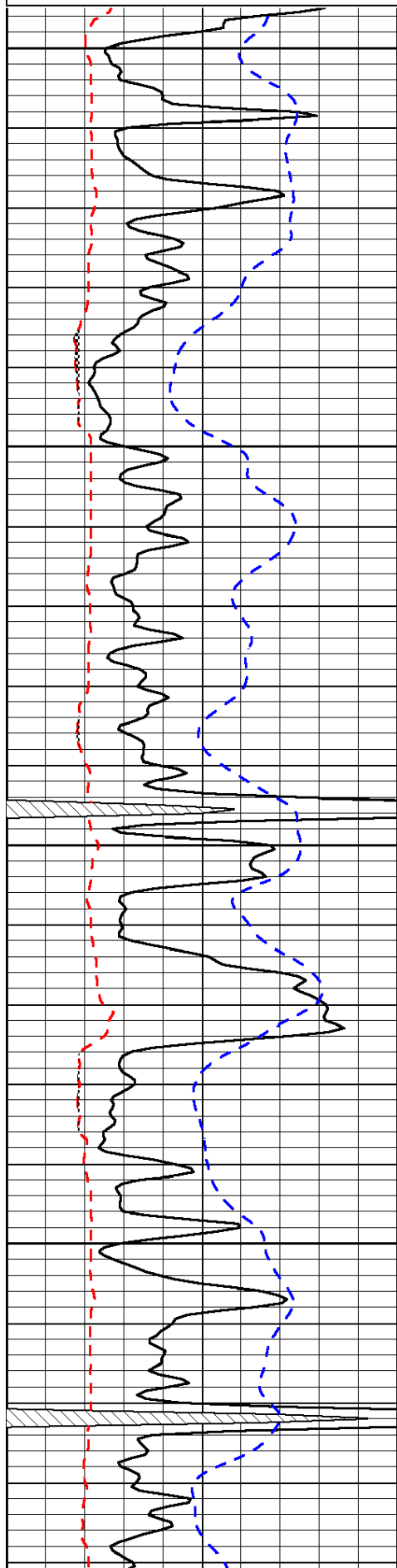
Thank you for using Pioneer Energy Services  
www.pioneerres.com  
785 625 3858

Claflin, 1 1/2 South to Highway 156, 1 1/2 Southwest, North Into

Database File: c:\warrior\data\kirby krier\_bernard krier #1\kirbykrier\_bernardkrier\_1hd.db  
Dataset Pathname: dil/kirbstck  
Presentation Format: micro  
Dataset Creation: Sat Apr 20 10:52:32 2013  
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   |

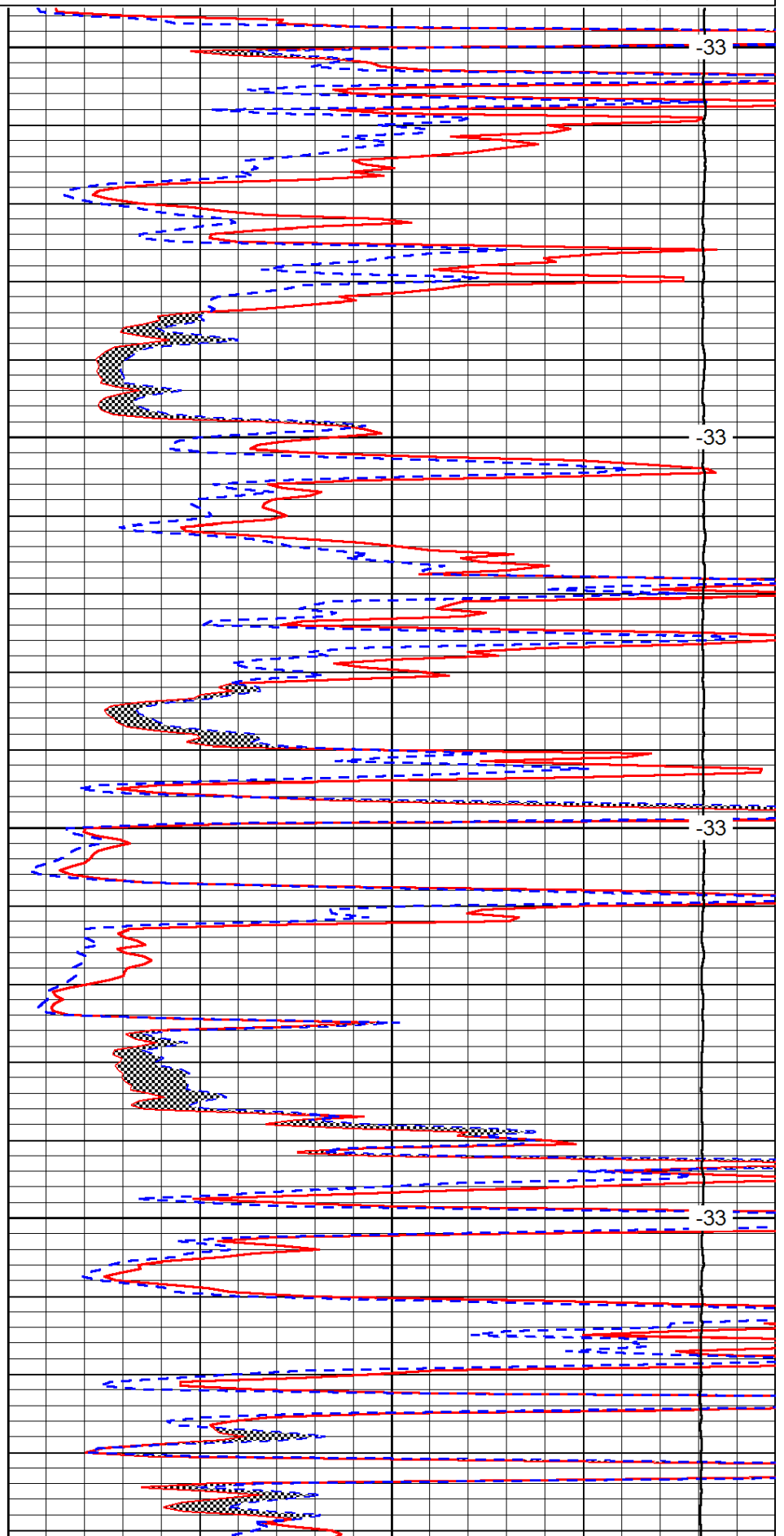


2700

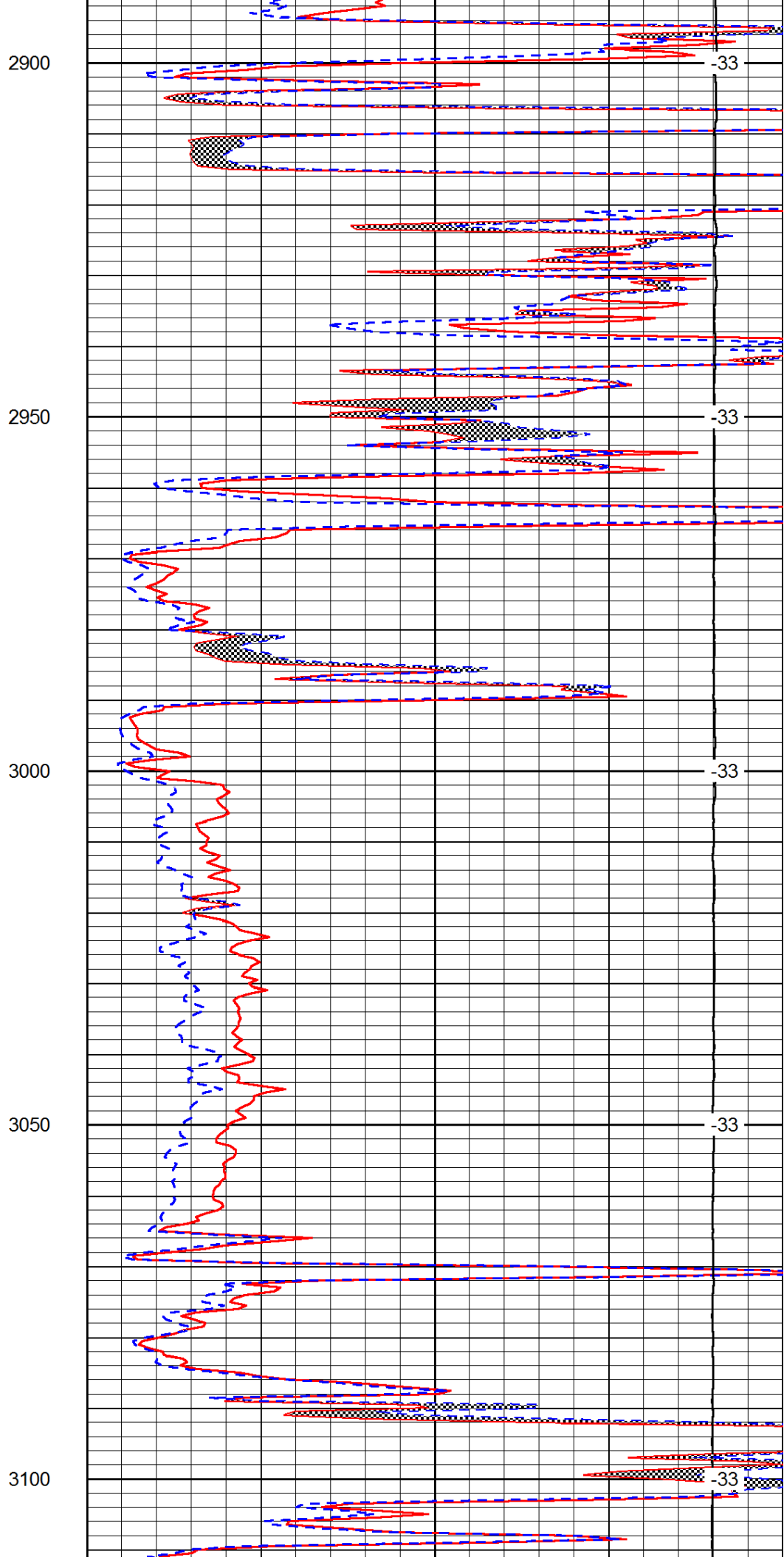
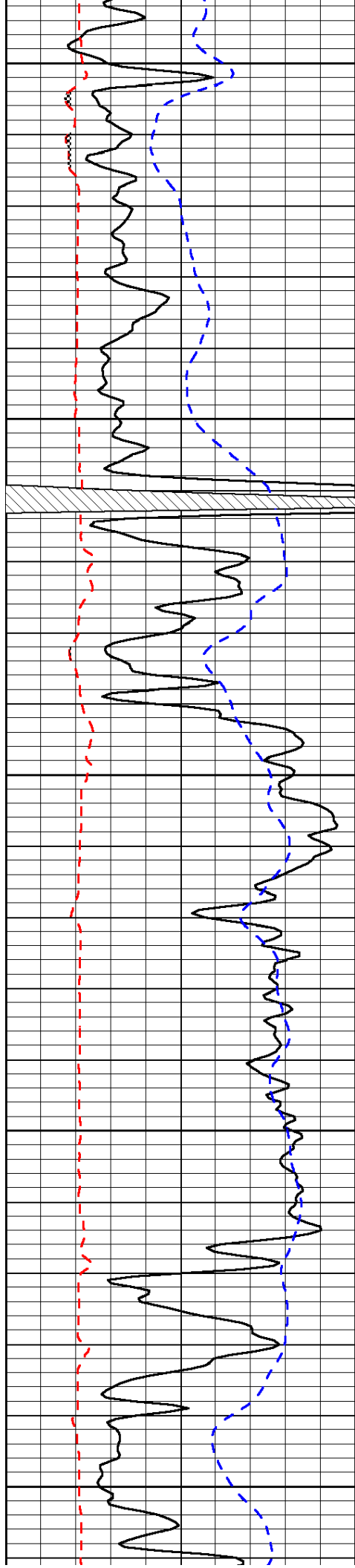
2750

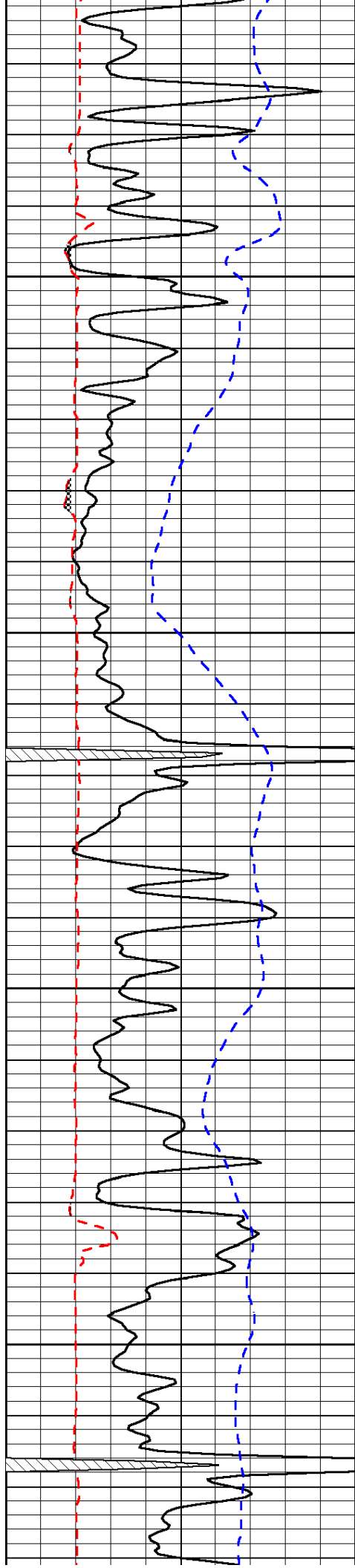
2800

2850



LSPD



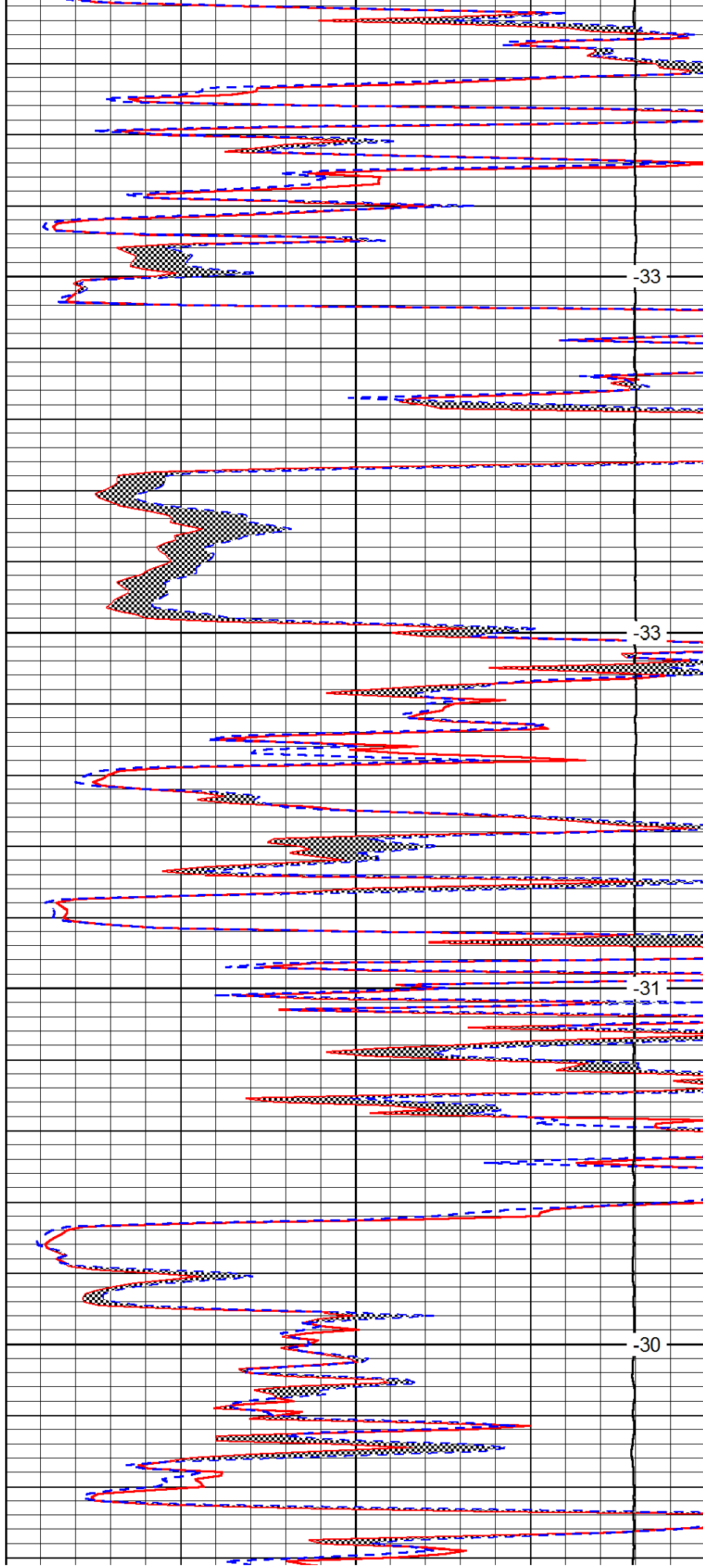


3150

3200

3250

3300

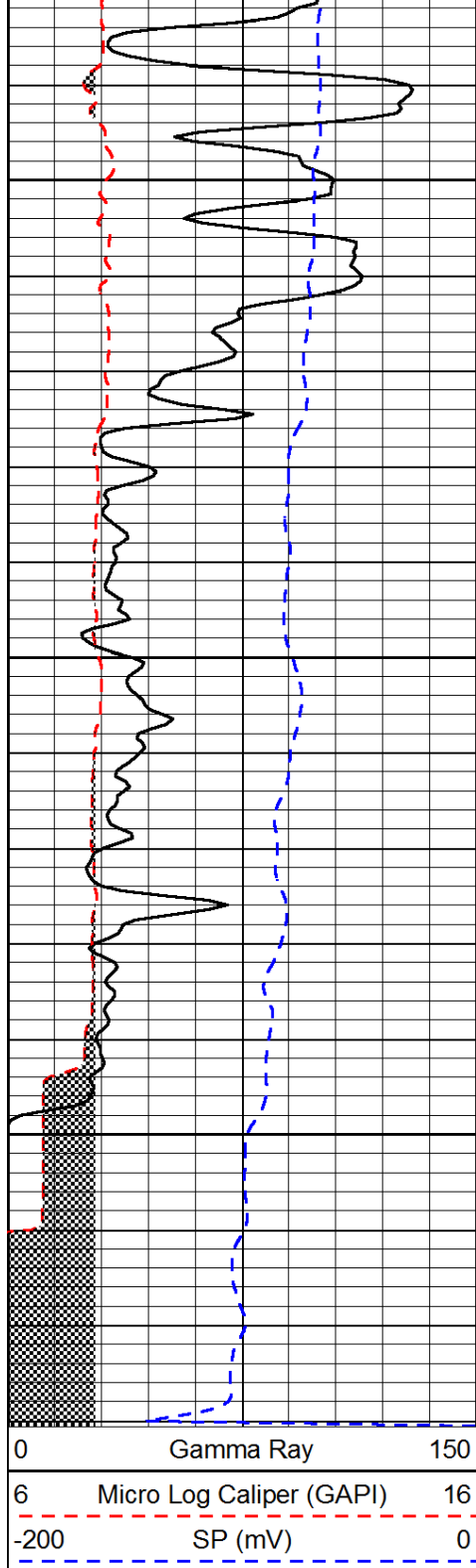


-33

-33

-31

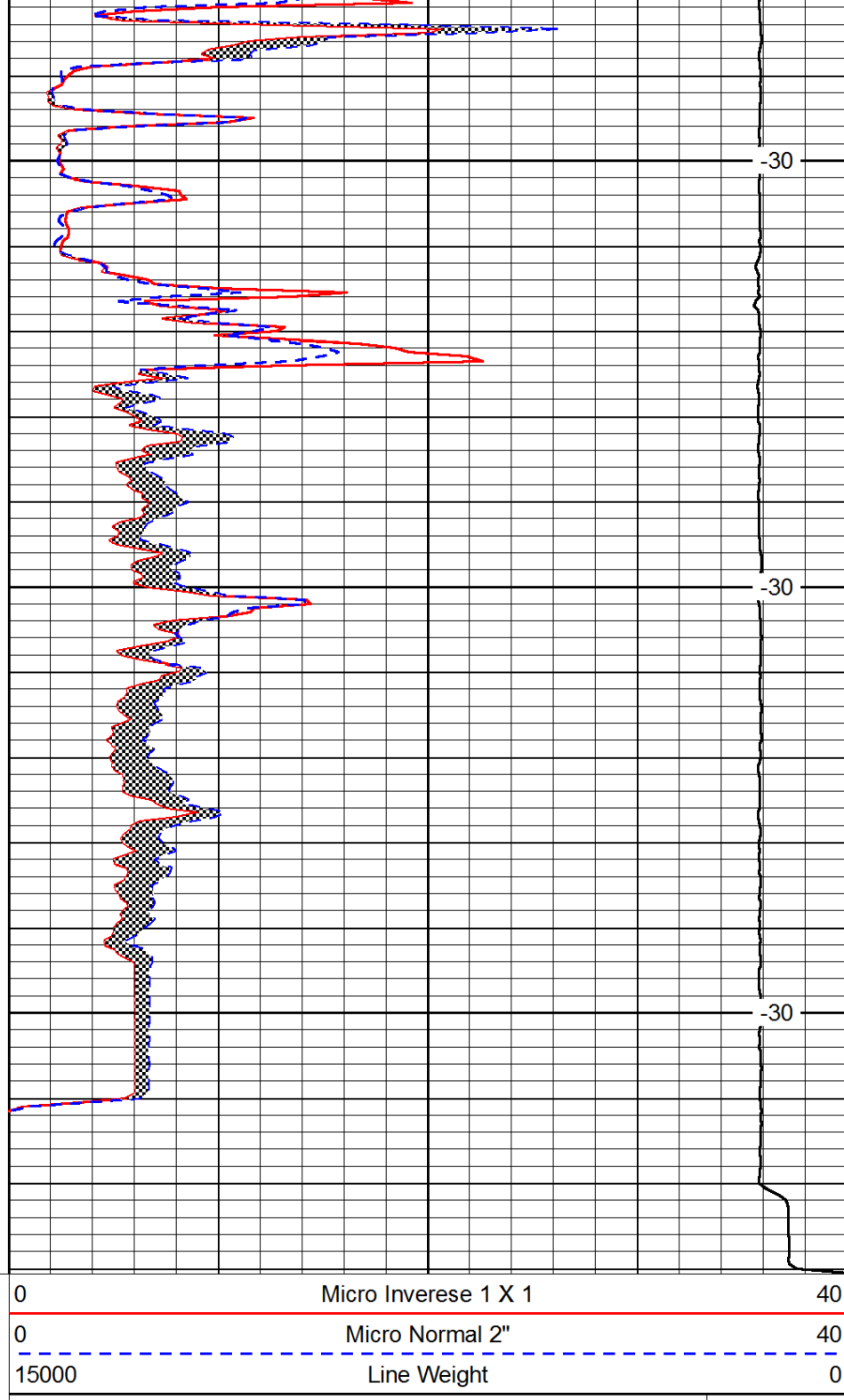
-30



3350

3400

3450



LSPD