



Pioneer Energy Services

# Microresistivity Log

15-193-20,883-00-00

API No.

Company **Norstar Petroleum, Inc.**

Well **Barrett Survivors Trust #1-36**

Field

County **Thomas**

State

**Kansas**

Location

1976' FSL & 1997' FWL

Other Services  
CNL/CDL  
DIL

Sec: 36

Twp: 9S

Rge: 35W

Elevation

K.B. 3289

D.F. 3284

G.L. 3284

Permanent Datum  
Ground Level

3284

Log Measured From  
Kelly Bushing

5 Ft. Above Perm. Datum

Drilling Measured From  
Kelly Bushing

Date

3/7/2013

Run Number

Two

Depth Driller

4890

Depth Logger

4893

Bottom Logged Interval

4892

Top Log Interval

3700

Casing Driller

8.625 @ 316

Casing Logger

316

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

9.700

Density / Viscosity

9.2 54

pH / Fluid Loss

11.0 7.6

Source of Sample

Flowline

Rm @ Meas. Temp

.28 @ 44

Rmf @ Meas. Temp

.21 @ 44

Rmc @ Meas. Temp

.38 @ 44

Source of Rmf / Rmc

Charts

Rm @ BHT

.1 @ 125

Operating Rig Time

4 Hours

Max Rec. Temp. F

125

Equipment Number

17

Location

Hays

Recorded By

C. Desaire

Witnessed By

Bob Elder

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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

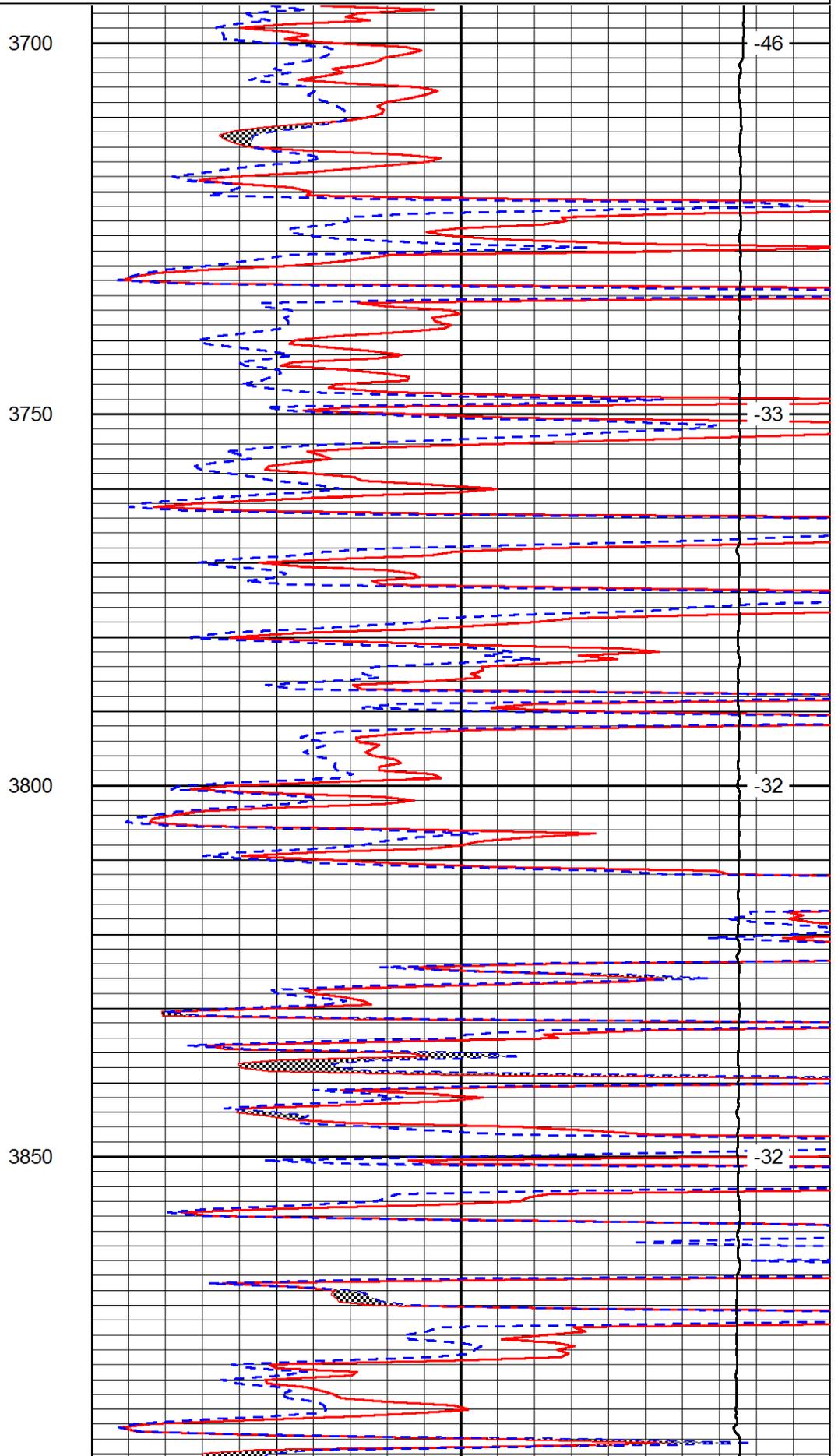
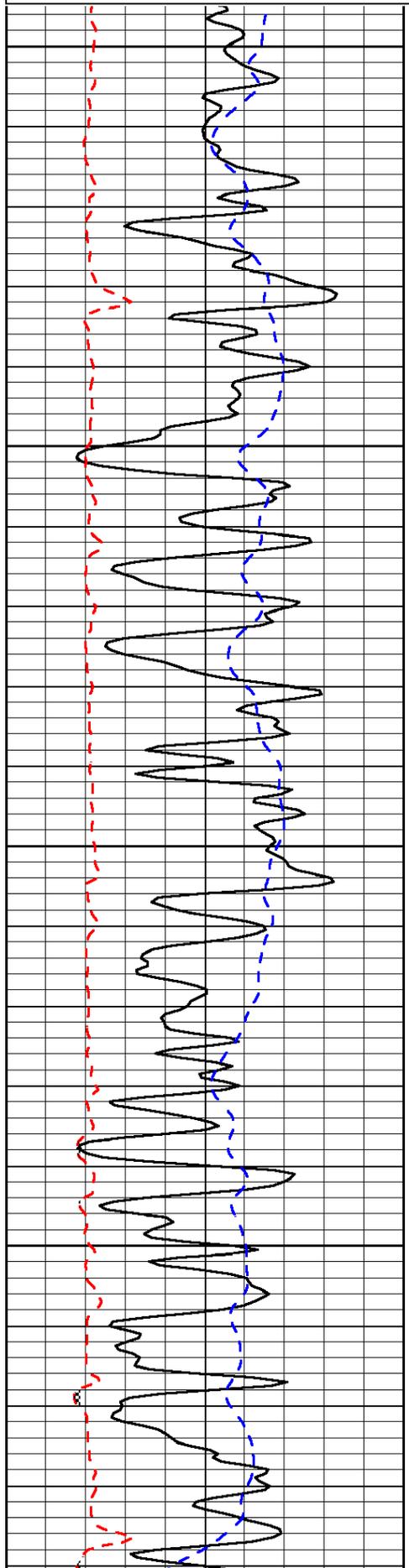
Levant KS & I-70 Exit, 11 S to G Rd,  
1 1/2 E, N Into

Database File: c:\warrior\data\norstar\_barrett survivors trust #1-36\norhd.db  
Dataset Pathname: dil/norstk  
Presentation Format: micro  
Dataset Creation: Thu Mar 07 08:54:44 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



3700

3750

3800

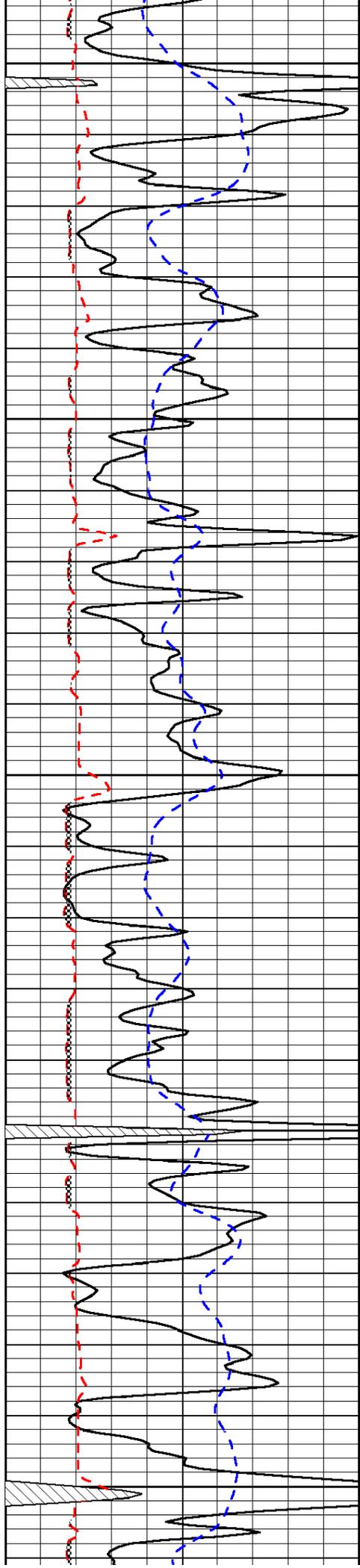
3850

-46

-33

-32

-32



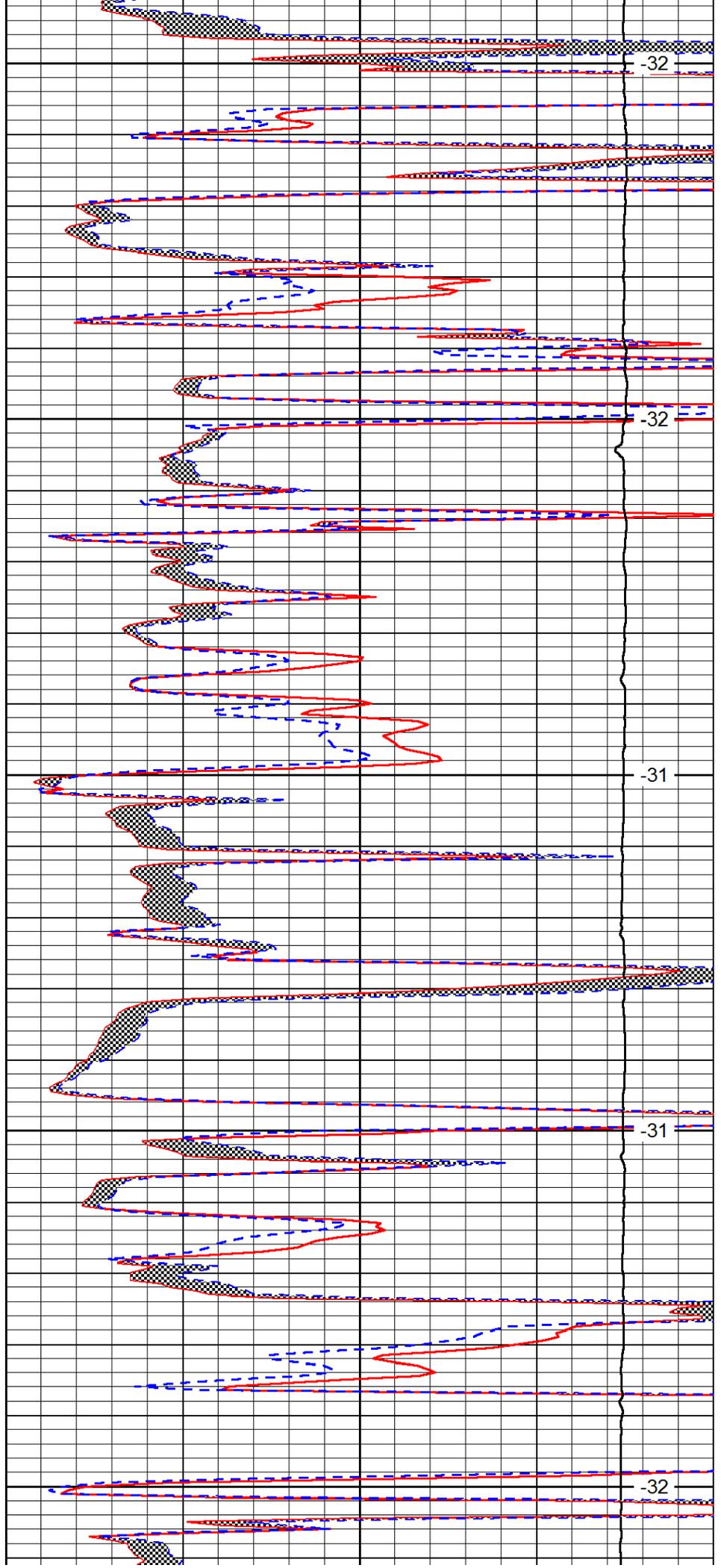
3900

3950

4000

4050

4100



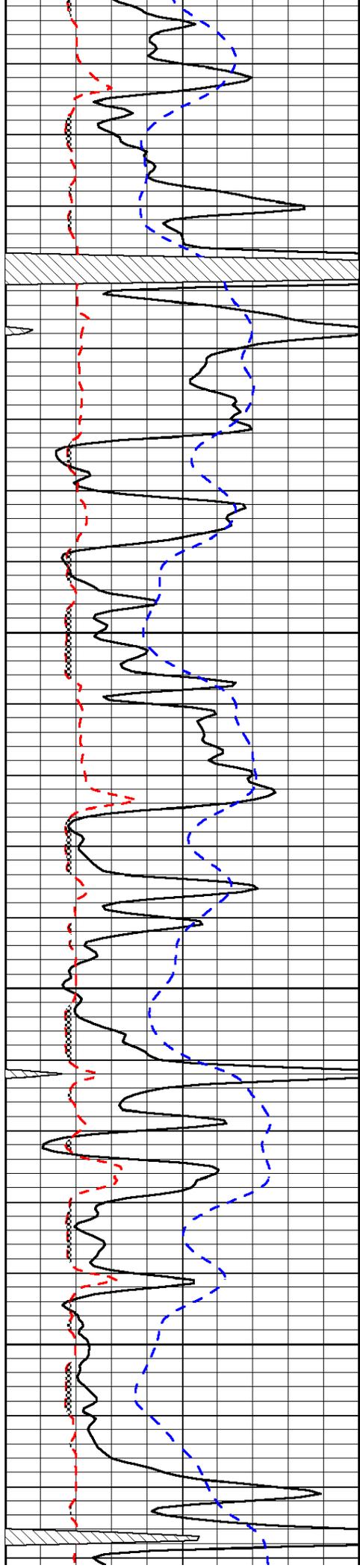
-32

-32

-31

-31

-32

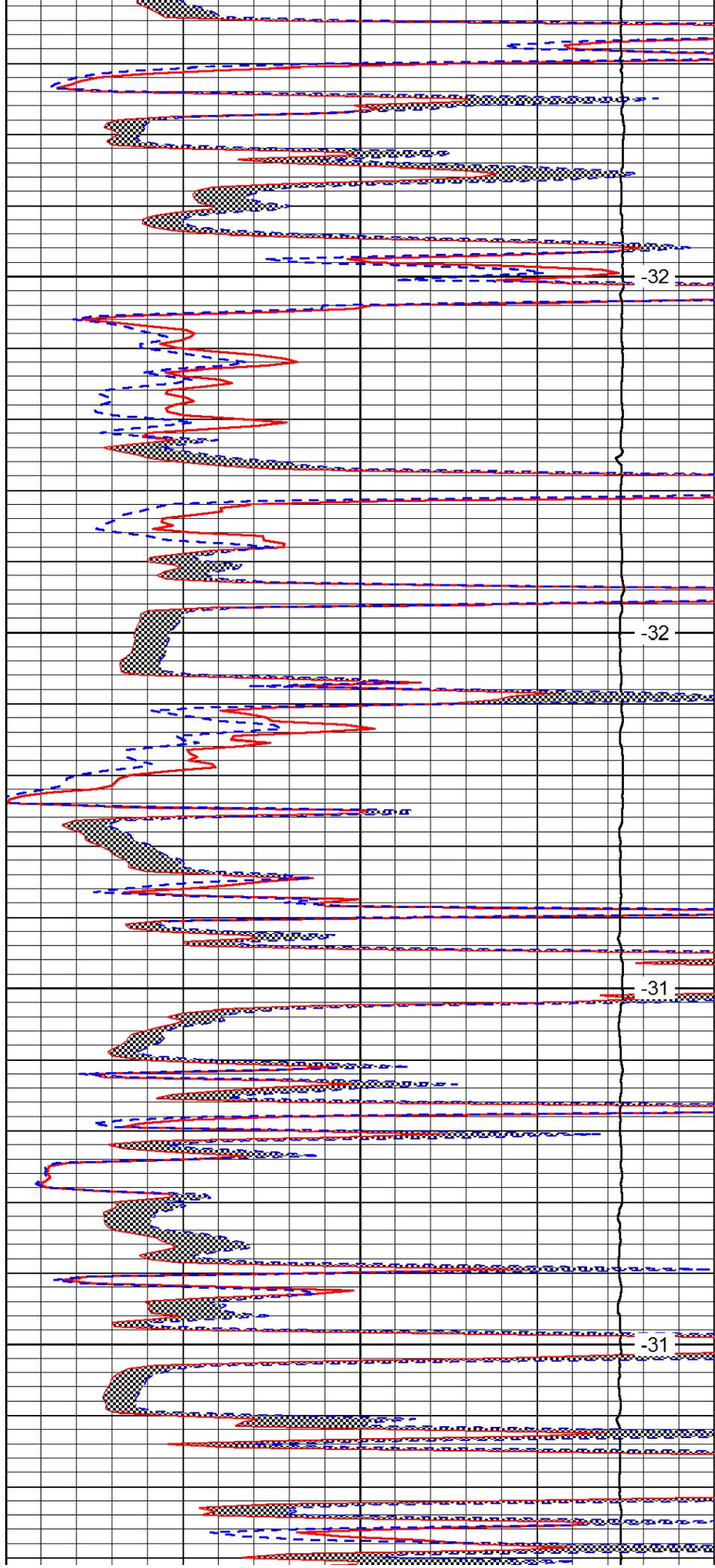


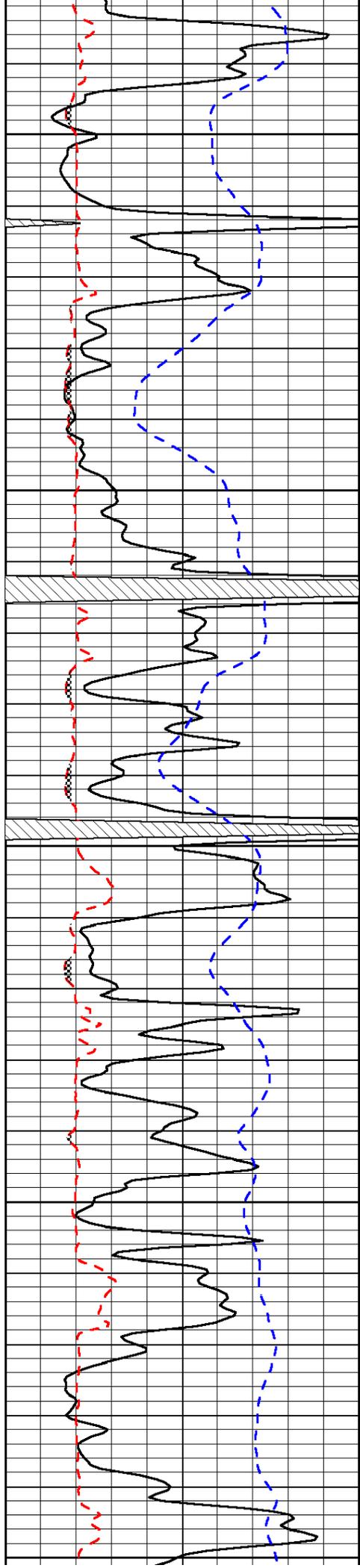
4150

4200

4250

4300





4350

-32

4400

-31

4450

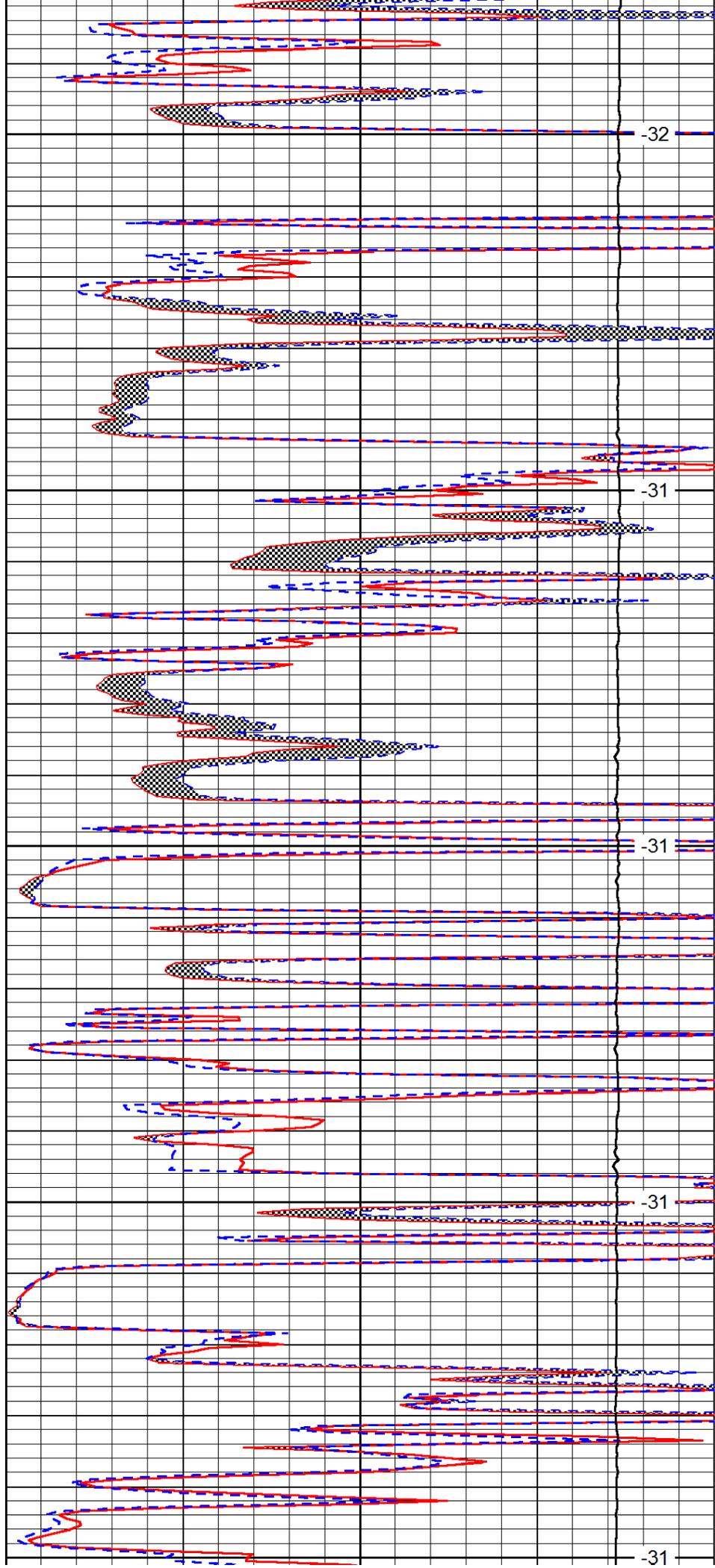
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4500

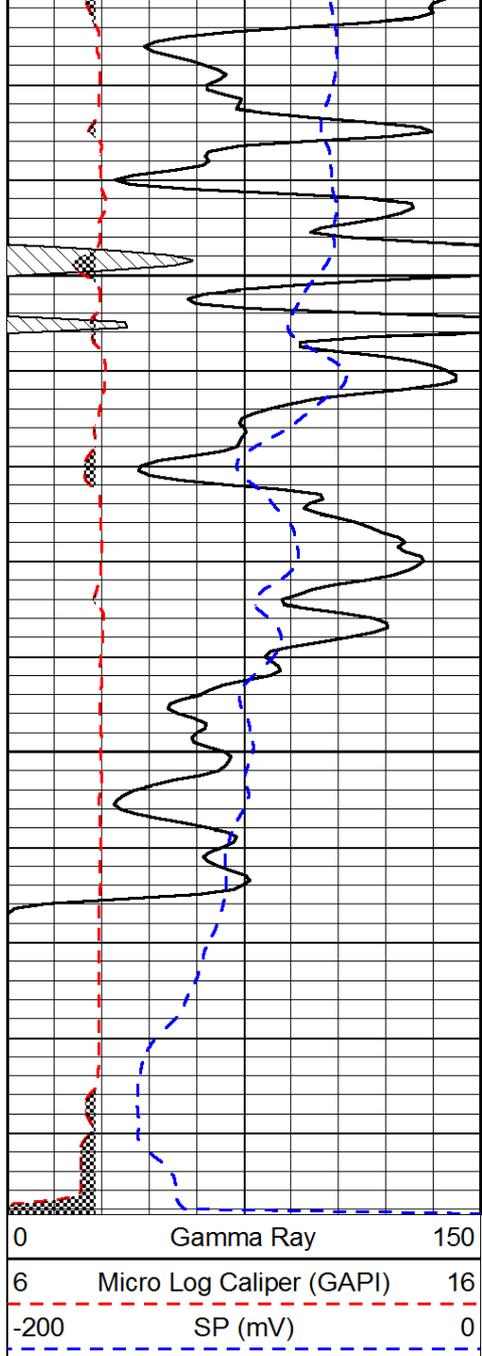
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4550

-31

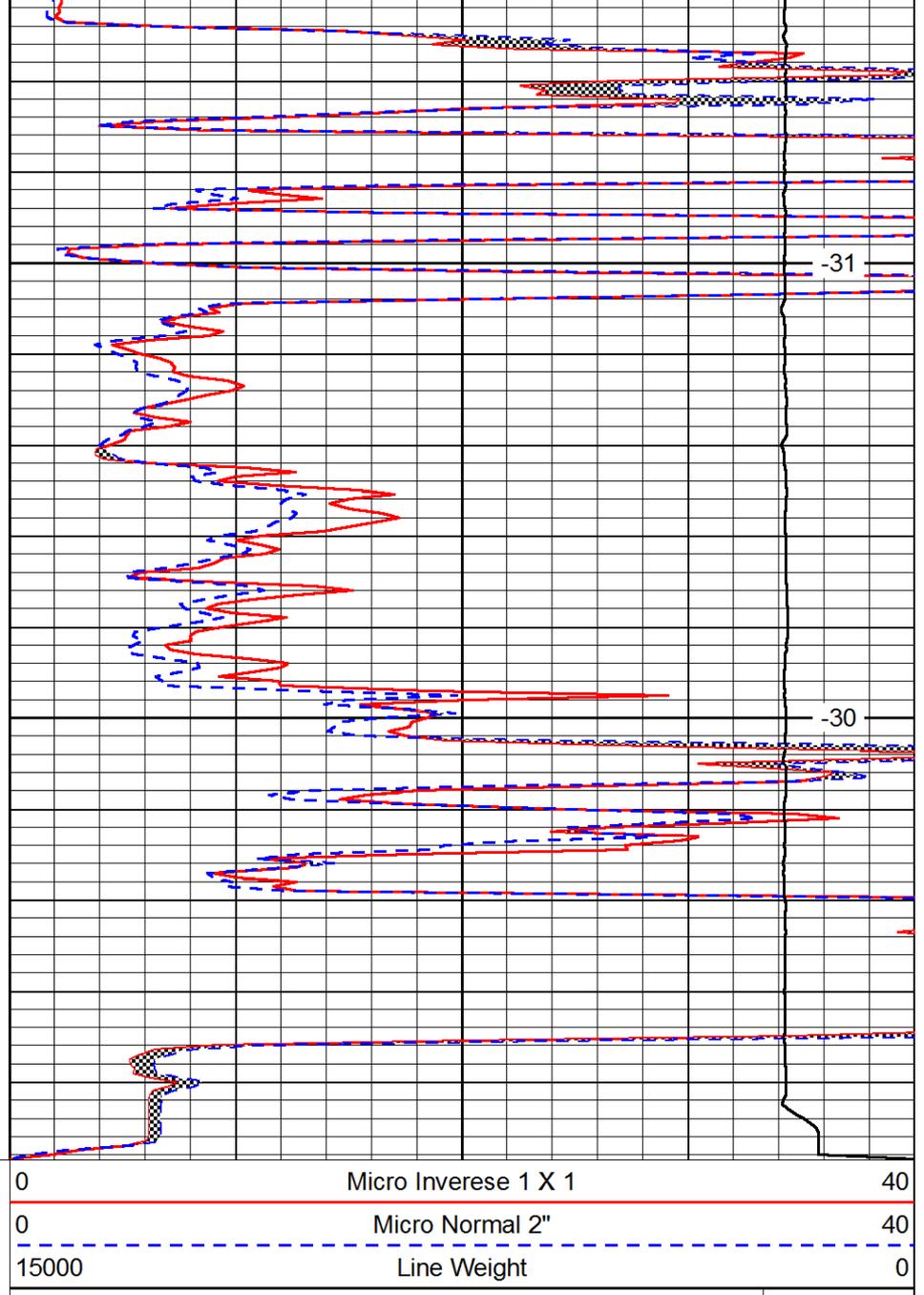






4800

4850



-31

-30

LSPD