



Microresistivity Log

Pioneer Energy Services

API No.

15-155-21,683-00-00

Company Novy Oil & Gas, Inc.

Well Howard #1

Field Zenith-Peace Creek

County Reno State

Kansas

Location

1320' FNL & 1320' FWL

Other Services
CNL/CDL
DIL

Sec: 15

Twp: 23S

Rge: 10W

Elevation

Permanent Datum Ground Level
Log Measured From Kelly Bushing
Drilling Measured From Kelly Bushing

Elevation 1775
10 Ft. Above Perm. Datum

K.B. 1785
D.F. 1775
G.L. 1775

Date

3/4/2014

Run Number

Two

Depth Driller

3844

Depth Logger

3845

Bottom Logged Interval

3844

Top Log Interval

2900

Casing Driller

8.625 @ 266

Casing Logger

265

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

8.200

Density / Viscosity

9.6 64

pH / Fluid Loss

10.0 10.4

Source of Sample

Flowline

Rm @ Meas. Temp

.5 @ 48

Rmf @ Meas. Temp

.38 @ 48

Rmc @ Meas. Temp

.68 @ 48

Source of Rmf / Rmc

Charts

Rm @ BHT

.21 @ 114

Operating Rig Time

4 Hours

Max Rec. Temp. F

114

Equipment Number

17

Location

Hays

Recorded By

C. Desaire

Witnessed By

Harley Sayles

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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.

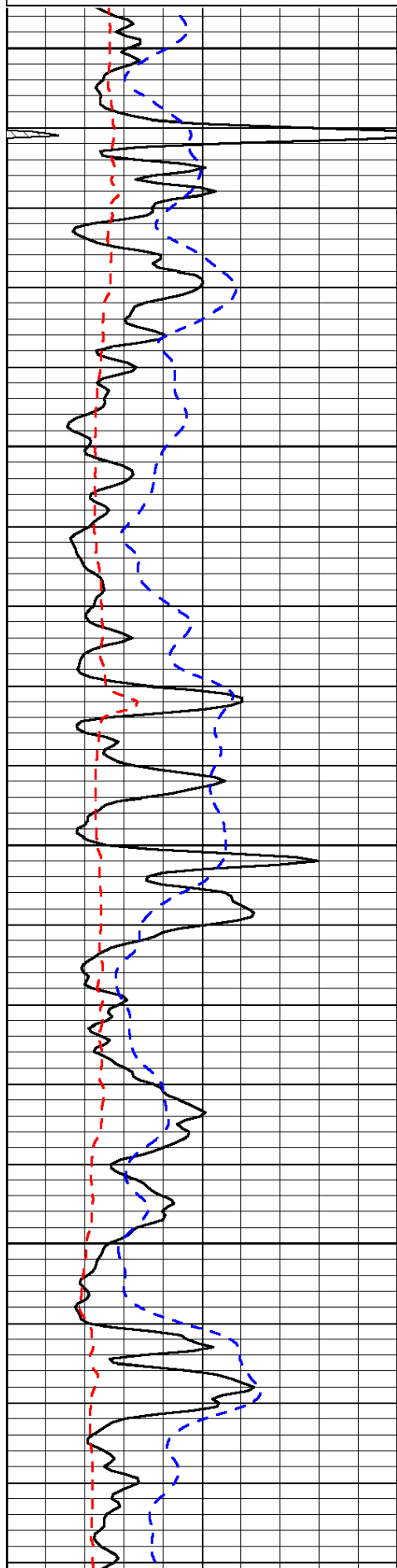
Comments

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

Stafford KS, E to Netherlands Rd,
N to 4th St, 1 W, 1/2 S, E Into

Database File: c:\warrior\data\novy_howard #1\novyhd.db
Dataset Pathname: dil\novystk
Presentation Format: micro
Dataset Creation: Tue Mar 04 05:18:09 2014
Charted by: Depth in Feet scaled 1:240

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



2900

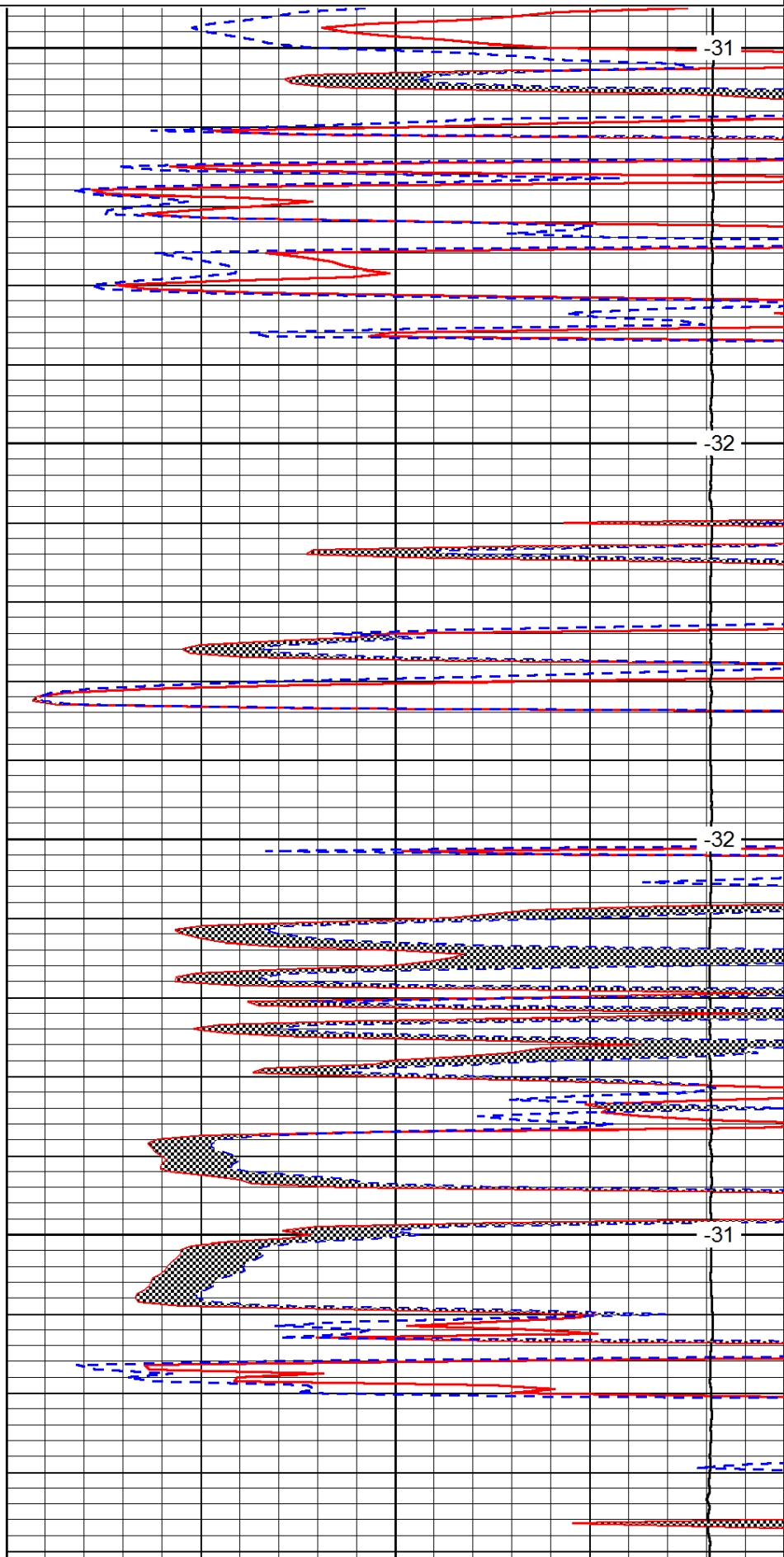
2950

3000

3050

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

LSPD

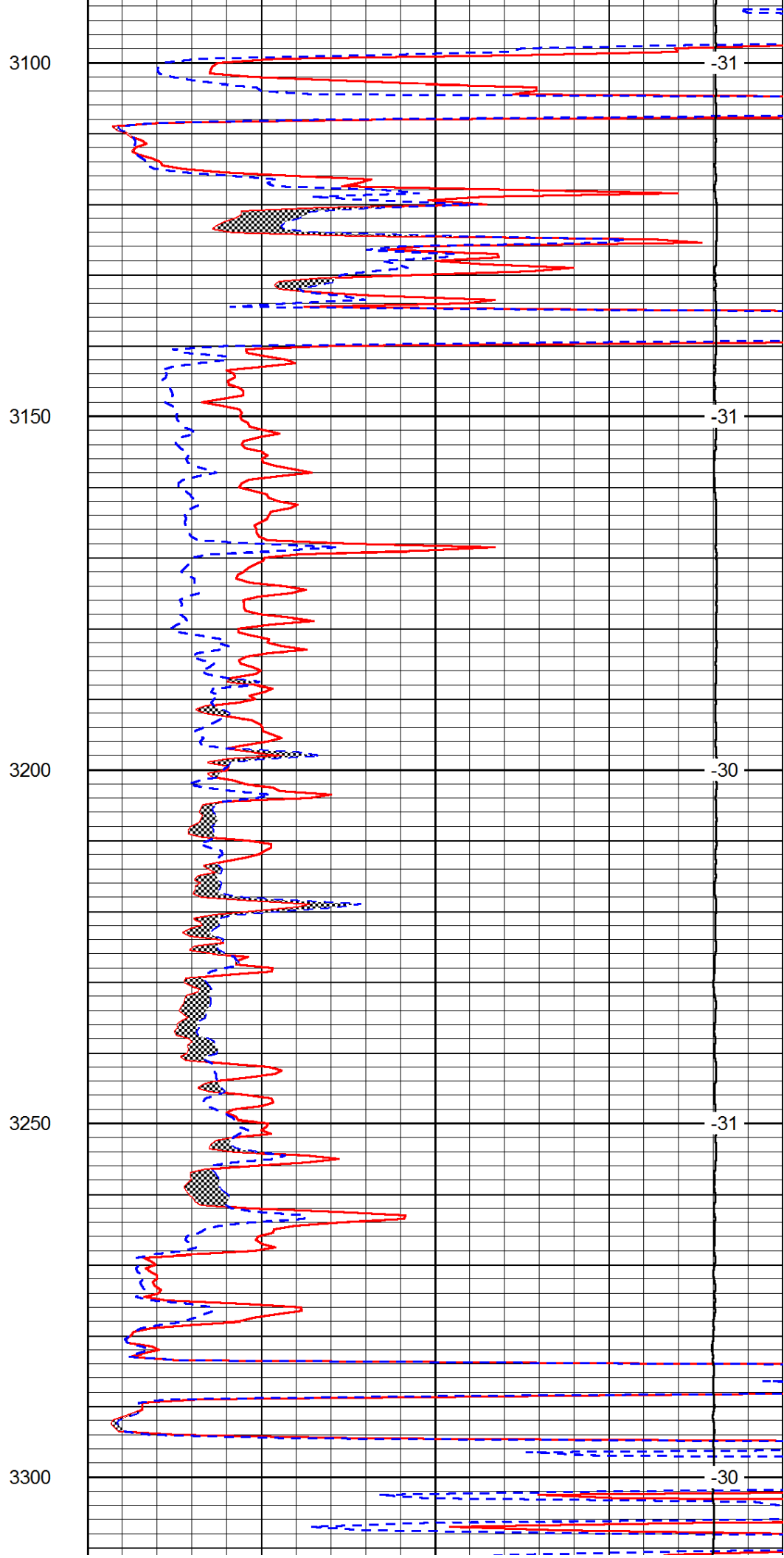
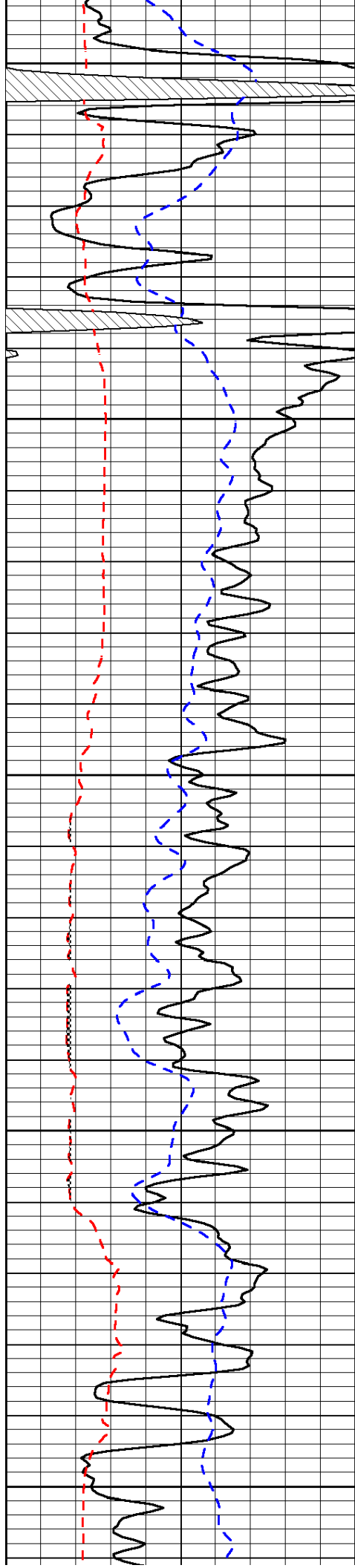


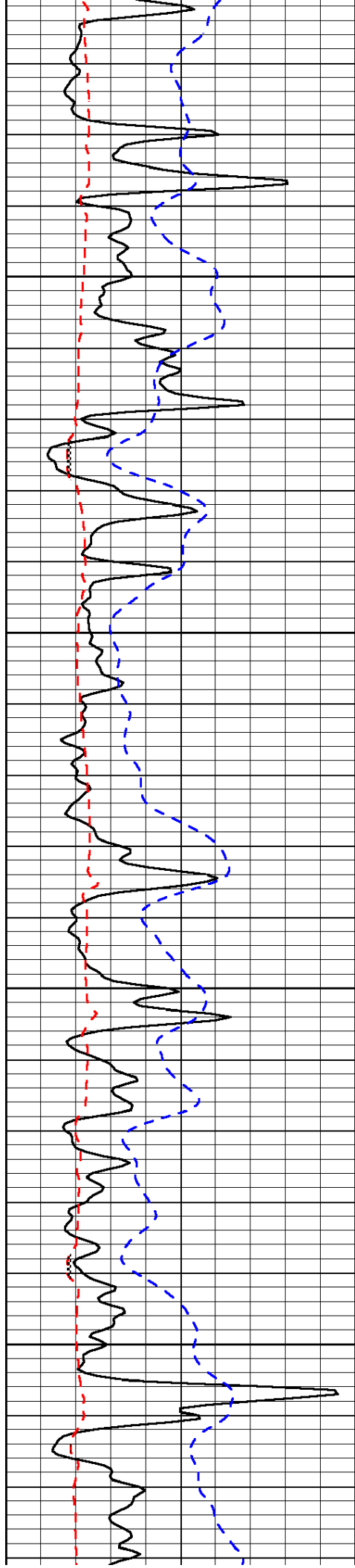
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-32

-32

-31



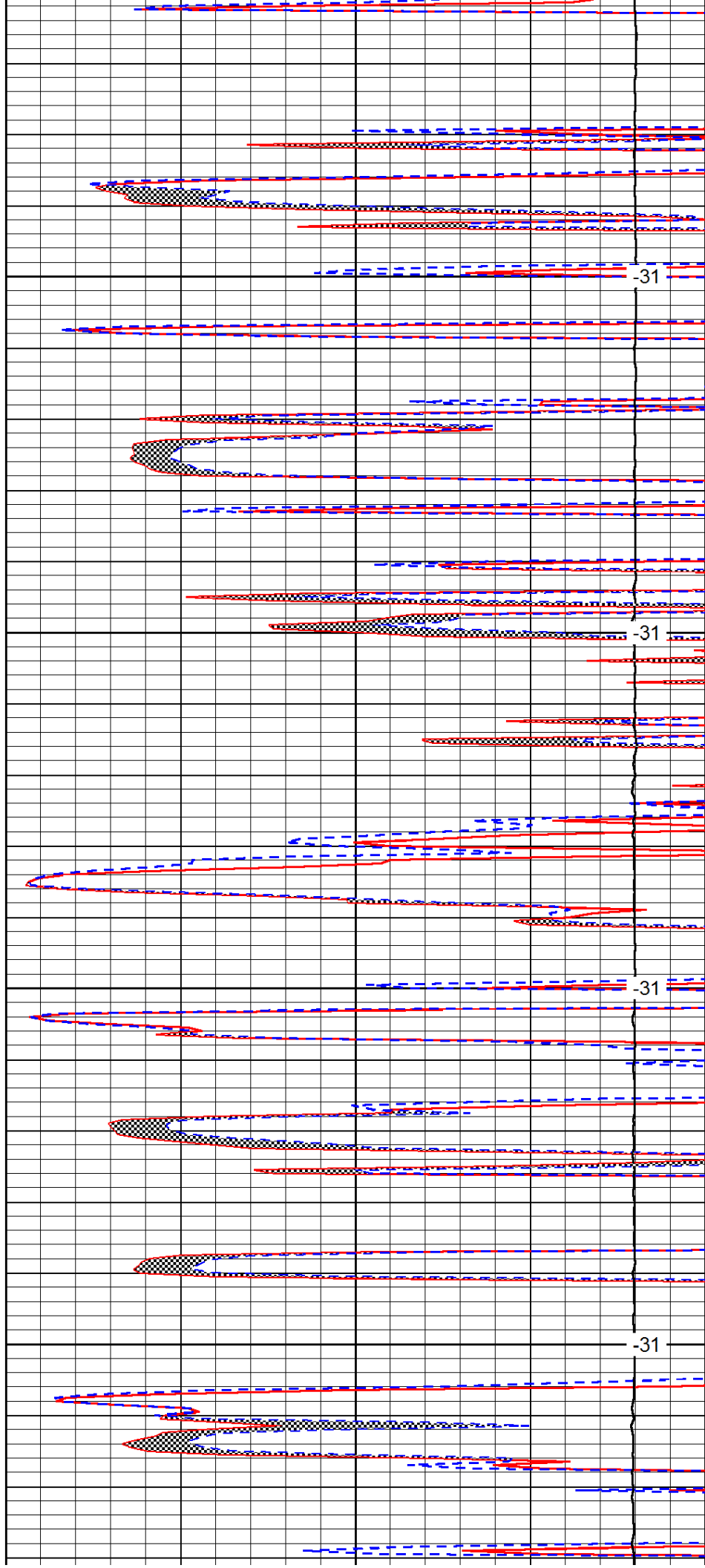


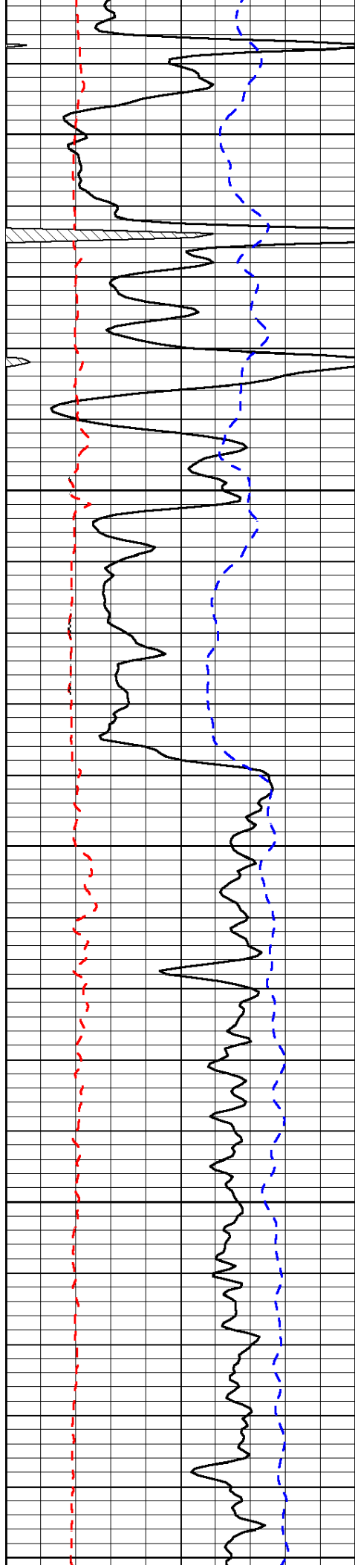
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3400

3450

3500





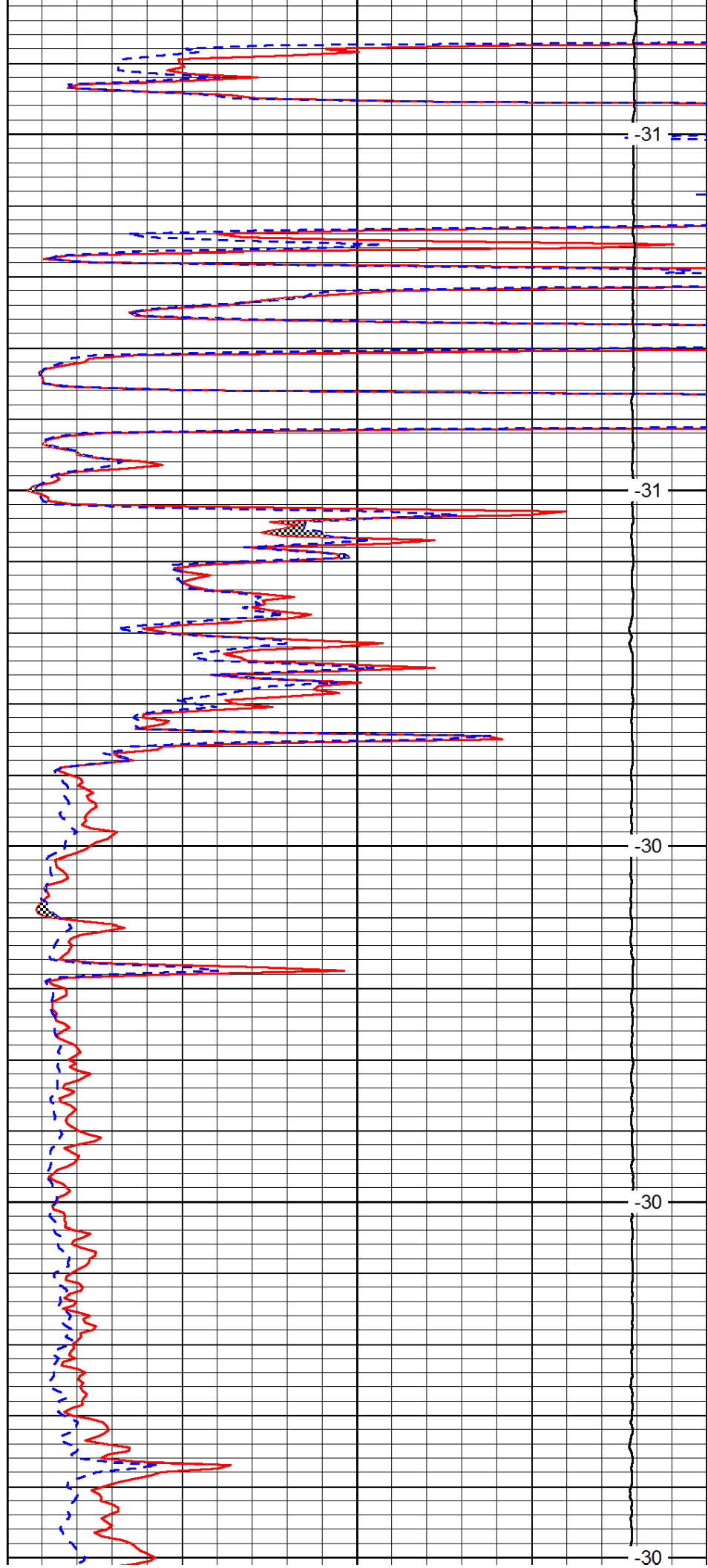
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3600

3650

3700

3750



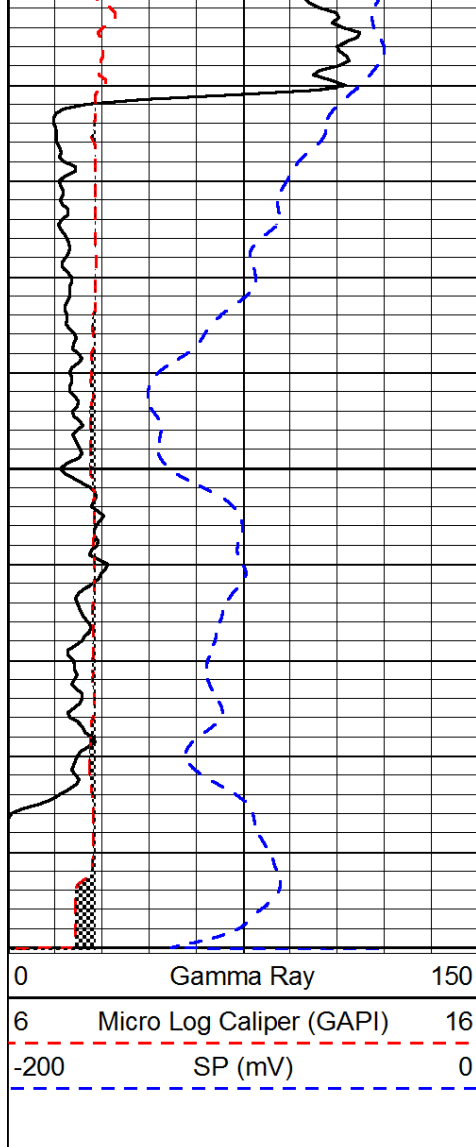
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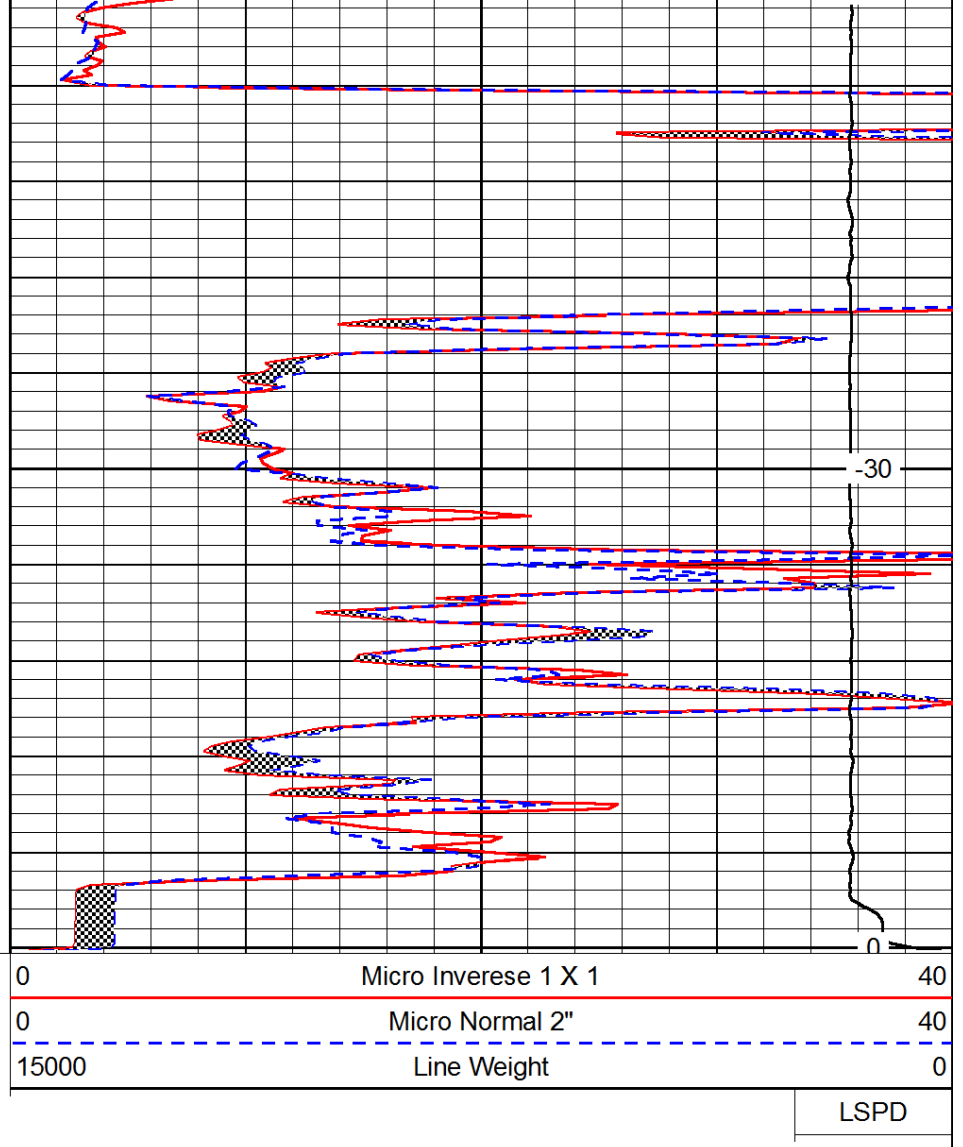
-30

-30



3800

3850



LSPD