



Microresistivity Log

Pioneer Energy Services

API No.

15-101-22,521-00-00

Company Larson Engineering, Inc.

Well Kalo Unit #1-29

Field Wildcat

County Lane State

Kansas

Location

NE NE NE NW
285' FNL & 2478' FWL

Other Services
CNL/CDL
DIL

Sec: 29

Twp: 18S

Rge: 28W

Elevation

Permanent Datum Ground Level

Log Measured From Kelly Bushing

Elevation 2753

Drilling Measured From Kelly Bushing

7 Ft. Above Perm. Datum

K.B. 2760
D.F. 2753
G.L. 2753

Date

6/26/2014

Run Number

Two

Depth Driller

4645

Depth Logger

4638

Bottom Logged Interval

4637

Top Log Interval

3600

Casing Driller

8.625 @ 264

Casing Logger

260

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

2000

Density / Viscosity

9.1 63

pH / Fluid Loss

10.0 8.0

Source of Sample

Flowline

Rm @ Meas. Temp

0.81 @ 83

Rmf @ Meas. Temp

0.61 @ 83

Rmc @ Meas. Temp

1.09 @ 83

Source of Rmf / Rmc

Charts

Rm @ BHT

0.55 @ 122

Operating Rig Time

4 Hours

Max Rec. Temp. F

122

Equipment Number

15

Location

Hays

Recorded By

D. Kerr

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.

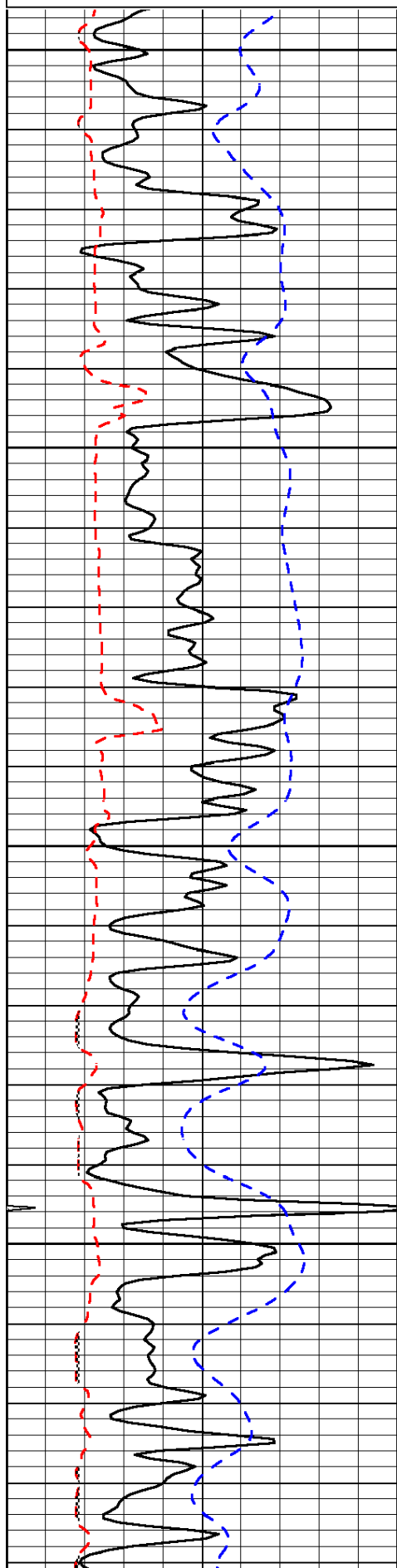
Comments

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

Dighton KS, 2 East to Mustang Rd,
1 South, West Into

Database File: c:\warrior\data\larson_kalo unit #1-29\larson_kalounit_1_29hd.db
Dataset Pathname: DIL\larstk
Presentation Format: micro
Dataset Creation: Thu Jun 26 03:16:06 2014
Charted by: Depth in Feet scaled 1:240

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



3600

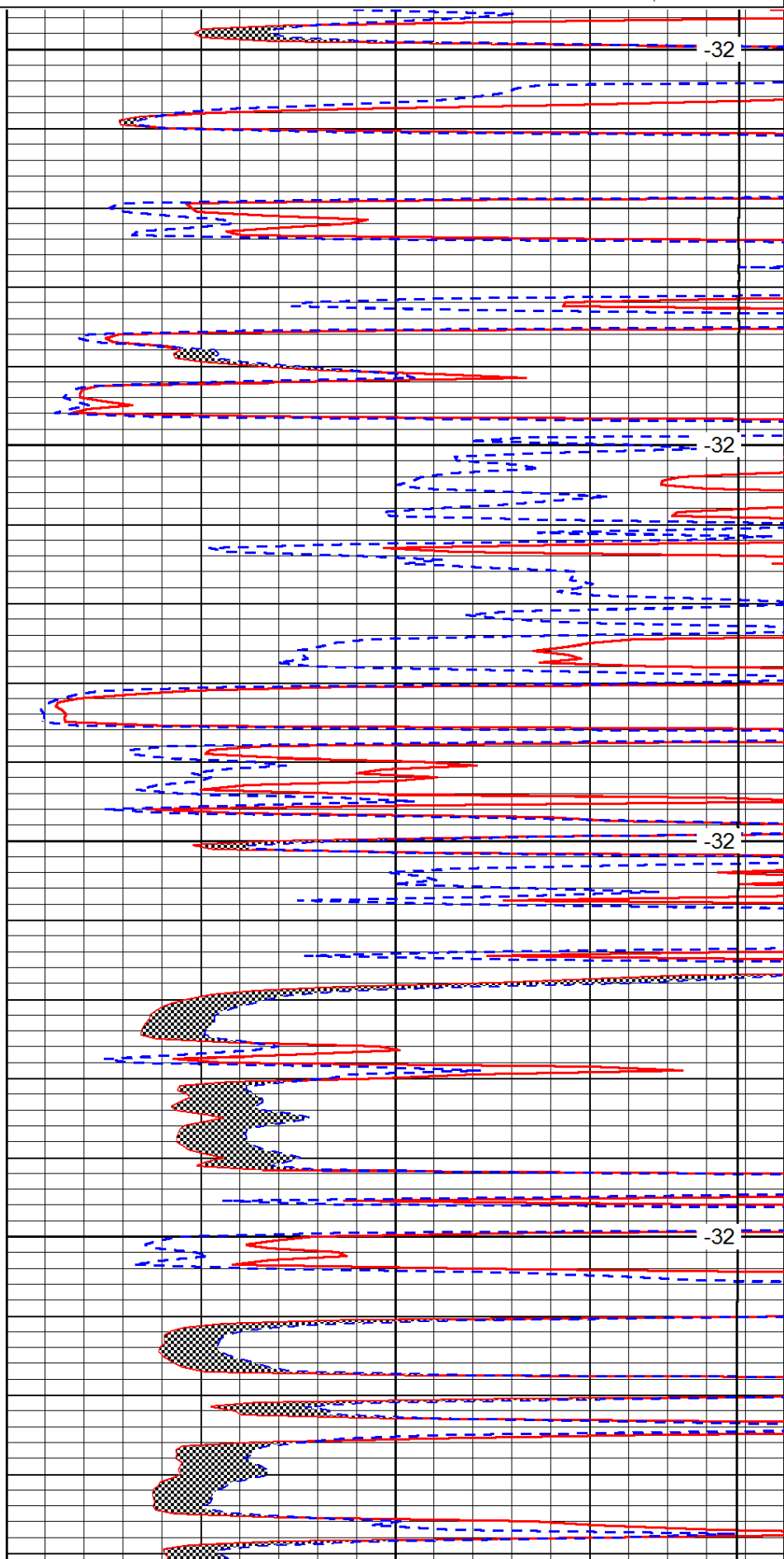
3650

3700

3750

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

LSPD

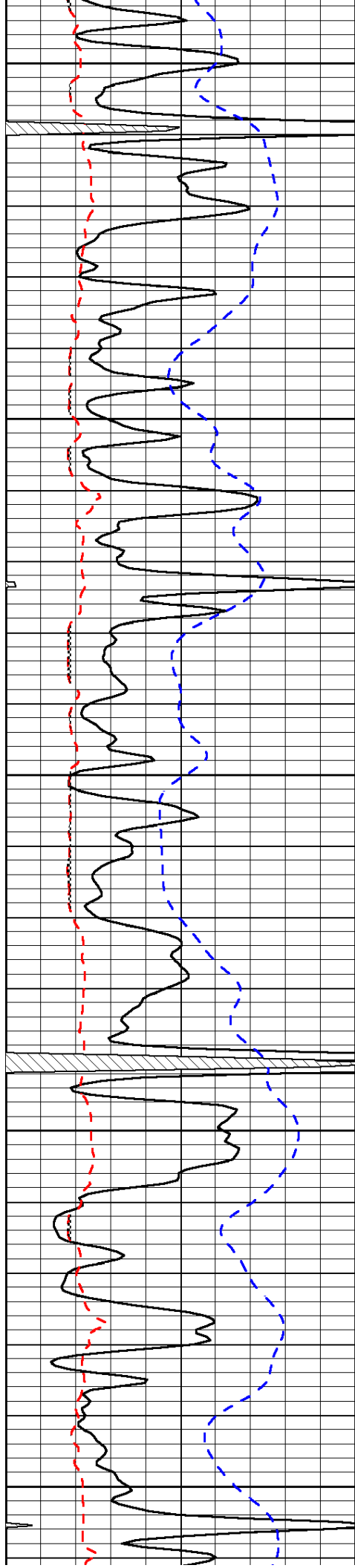


-32

-32

-32

-32



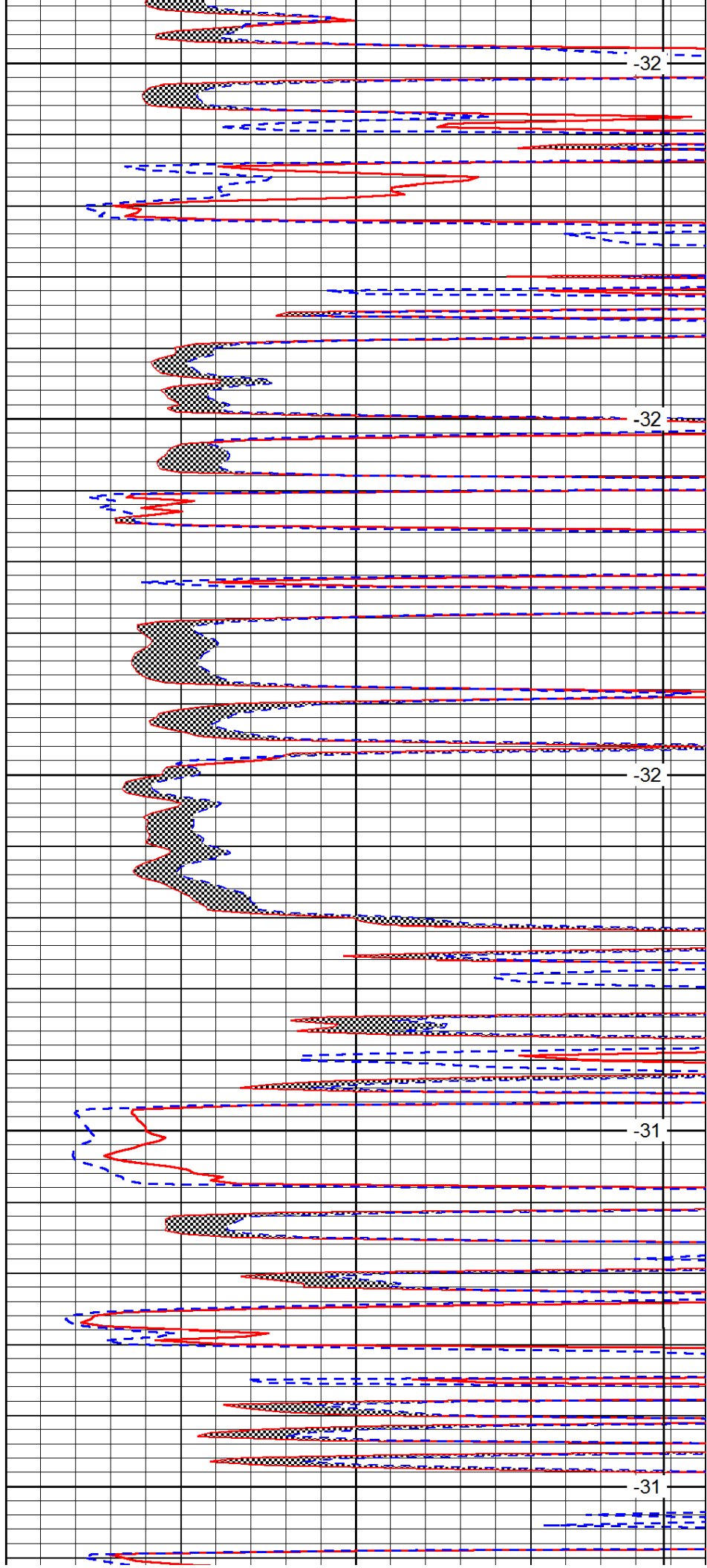
3800

3850

3900

3950

4000



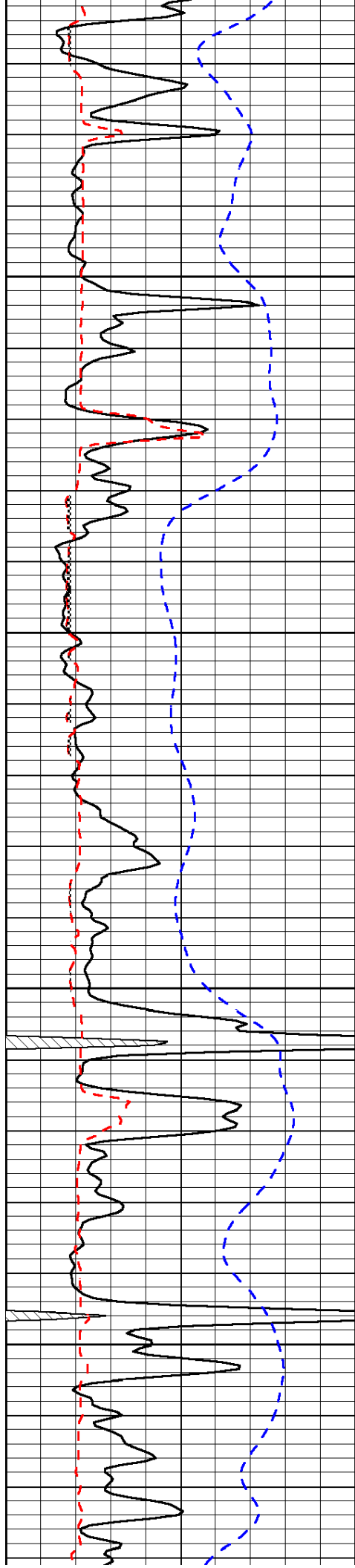
-32

-32

-32

-31

-31

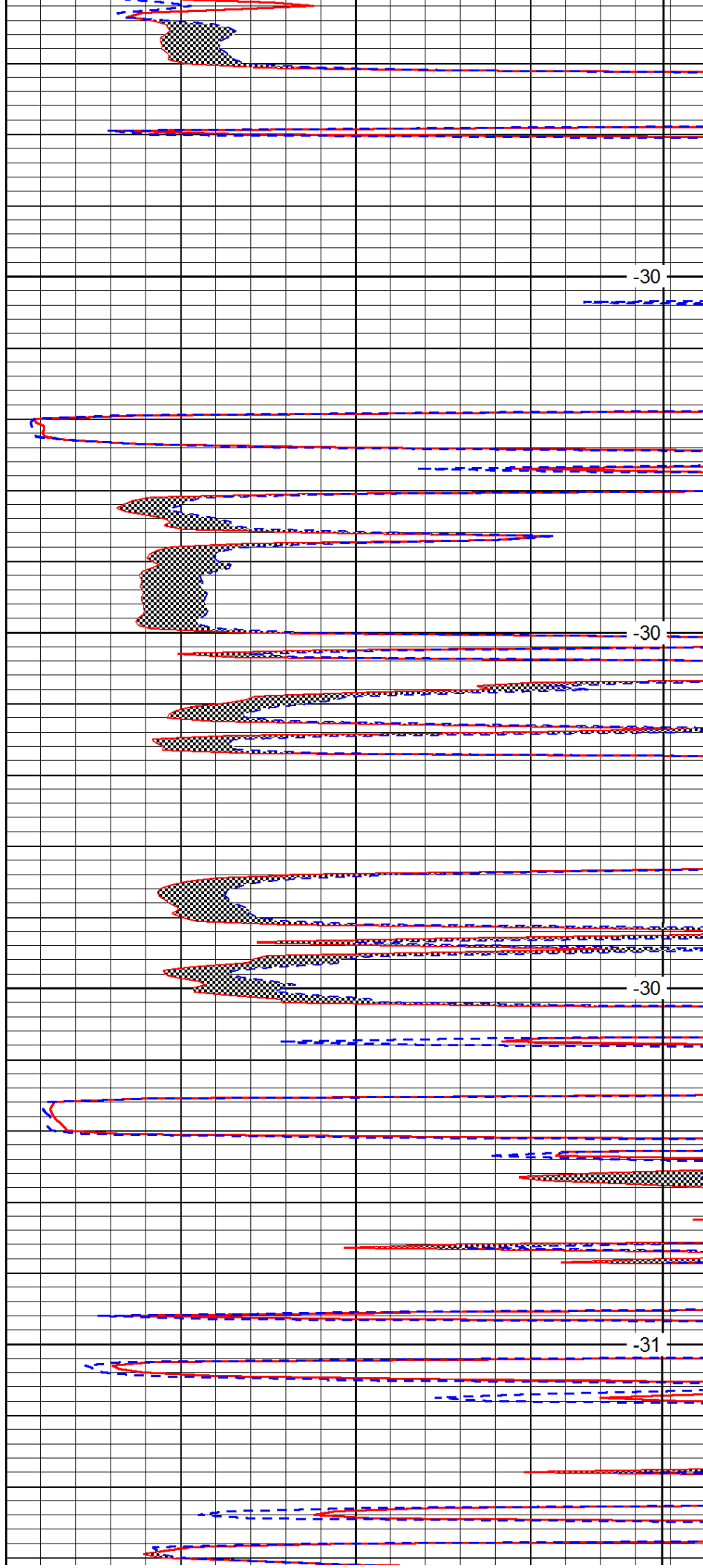


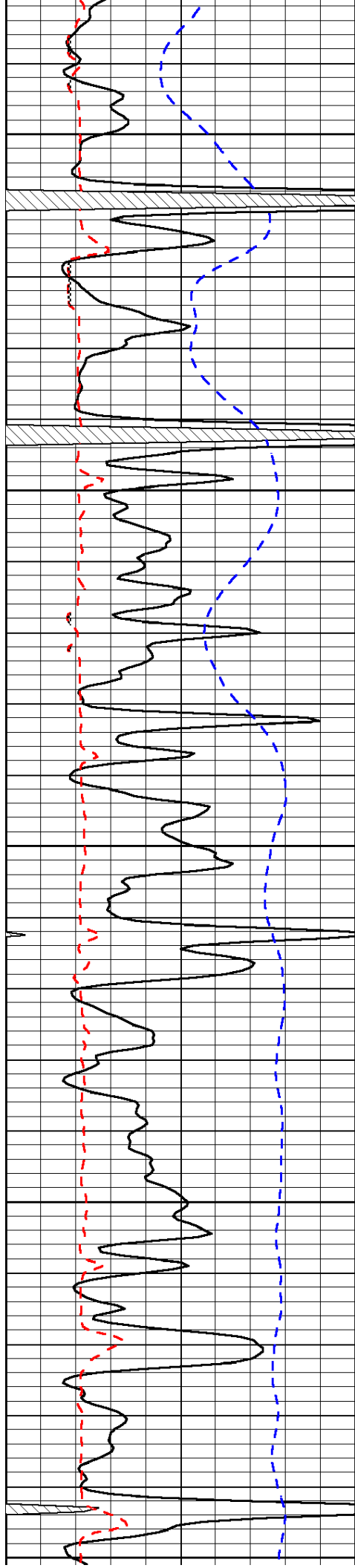
4050

4100

4150

4200





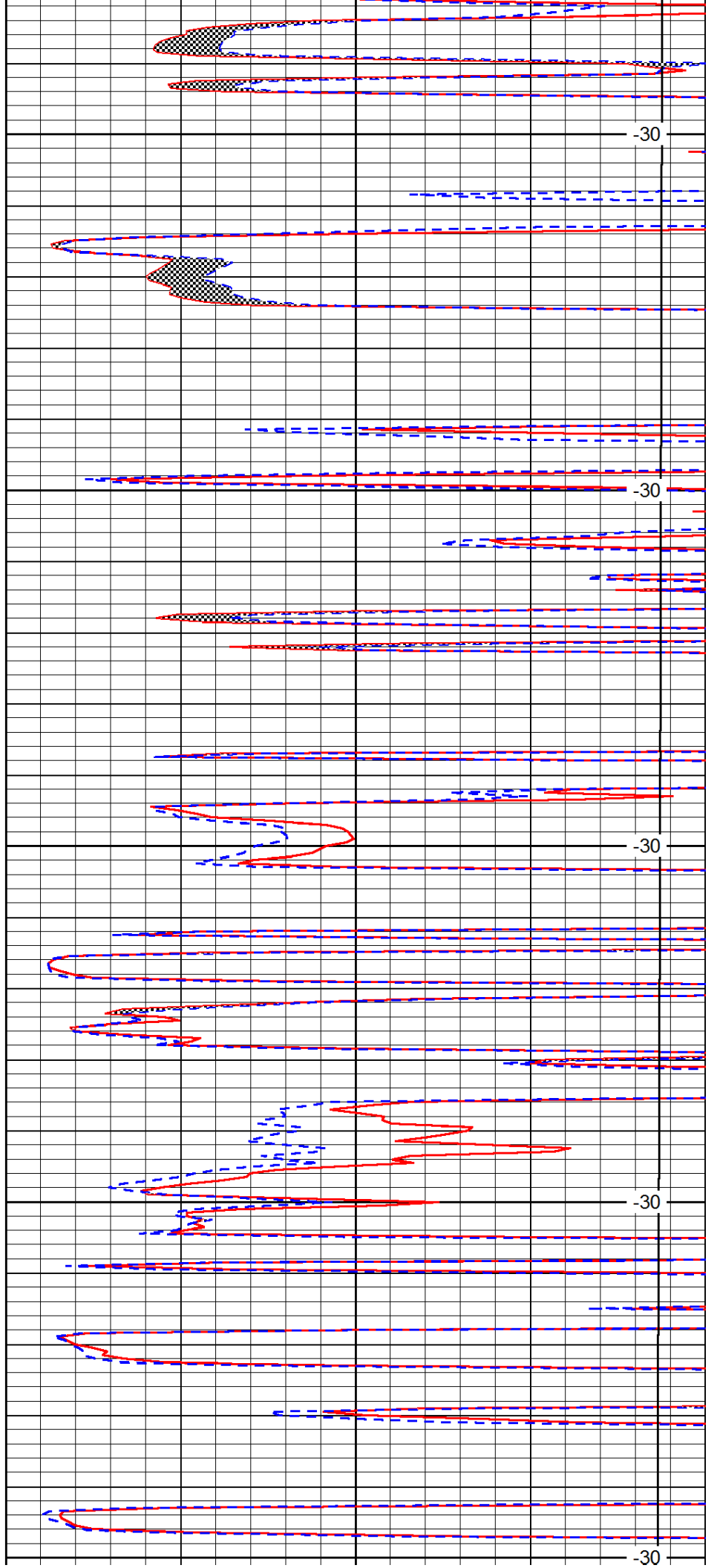
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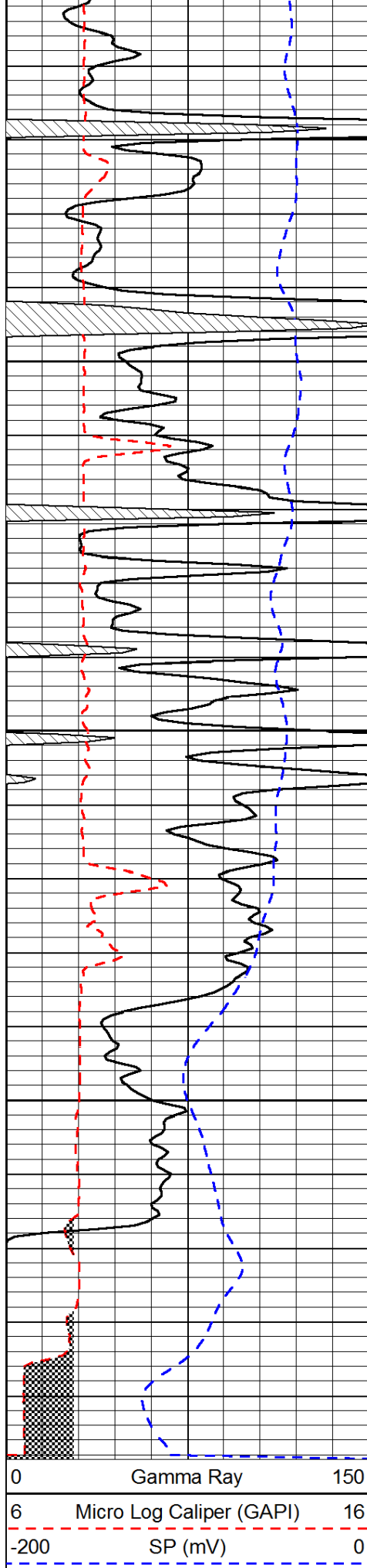
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4350

4400

4450

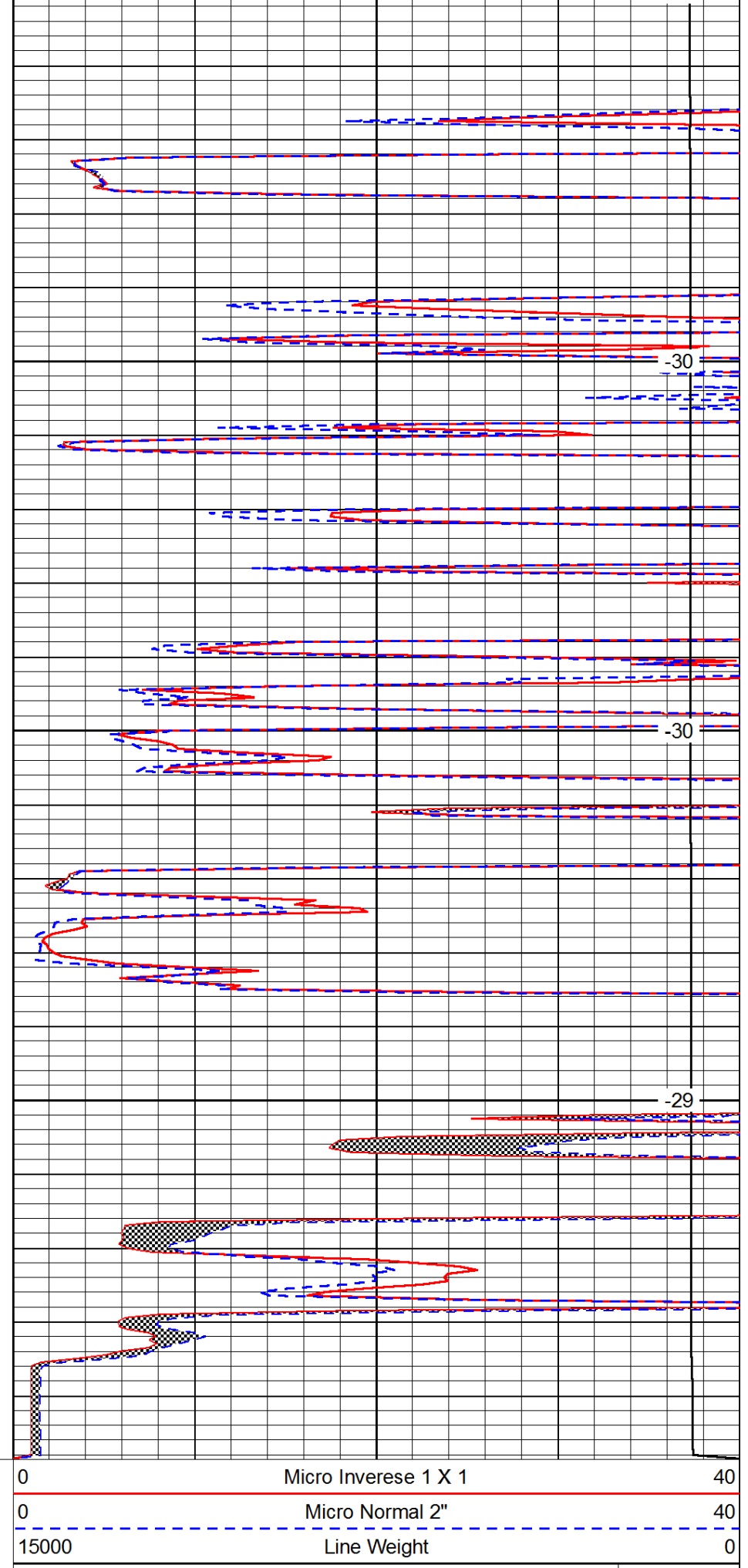




4500

4550

4600



-30

-30

-29