



Microresistivity Log

Pioneer Energy Services

API No.

15-101-22432-00-00

Company **Larson Engineering, Inc.**
Well **Harper-James #1-22**
Field **Wildcat**
County **Lane** State **Kansas**

Location **224' FNL & 1916' FWL**

Sec: **22** Twp: **18 S** Rge: **29 W**

Other Services
CNL/CDL
DIL

Elevation

K.B. 2803
D.F. 2796
G.L. 2796

Permanent Datum Ground Level Elevation 2796
Log Measured From Kelly Bushing 7 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Date

4/15/2013

Run Number

Two

Depth Driller

4630

Depth Logger

4632

Bottom Logged Interval

4631

Top Log Interval

3600

Casing Driller

8.625 @ 283

Casing Logger

279

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

2400

Density / Viscosity

9.6 53

pH / Fluid Loss

10.0 7.2

Source of Sample

Flowline

Rm @ Meas. Temp

0.78 @ 54

Rmf @ Meas. Temp

0.58 @ 54

Rmc @ Meas. Temp

1.05 @ 54

Source of Rmf / Rmc

Charts

Rm @ BHT

0.34 @ 124

Operating Rig Time

4 Hours

Max Rec. Temp. F

124

Equipment Number

91

Location

Hays

Recorded By

Y. Ruiz

Witnessed By

D. Schmidt

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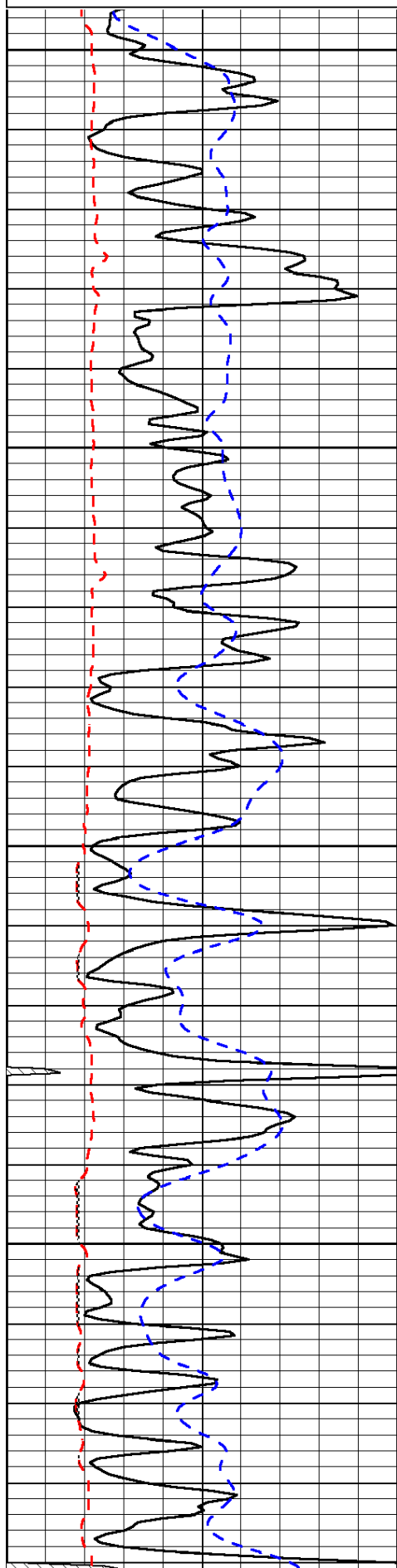
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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,
2 1/2 West,
South into

Database File: c:\warrior\data\larson_harper-james #1-22\larson_041513hd.db
Dataset Pathname: dil\larstk
Presentation Format: micro
Dataset Creation: Mon Apr 15 22:54:16 2013
Charted by: Depth in Feet scaled 1:240

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



3600

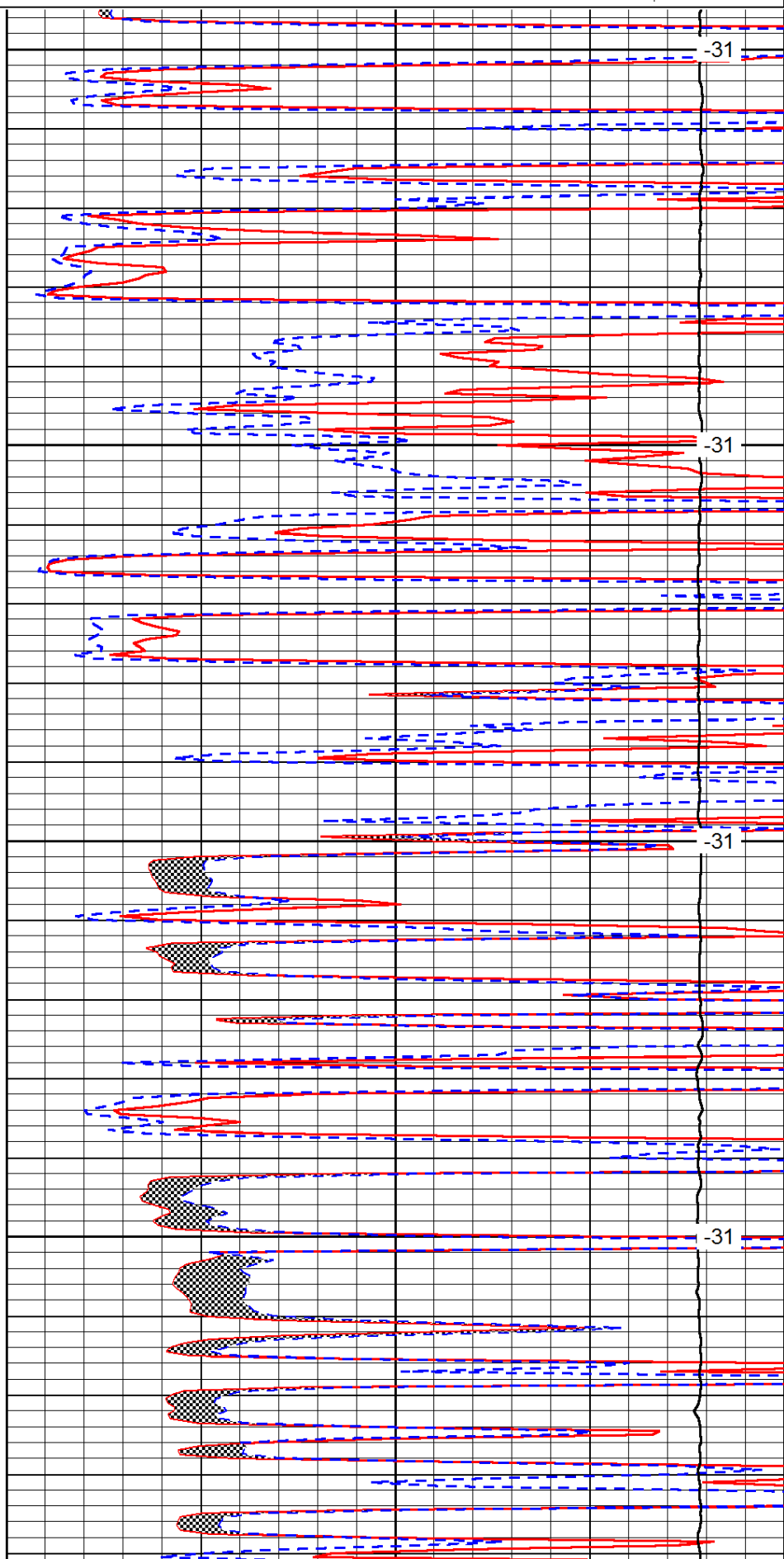
3650

3700

3750

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

LSPD

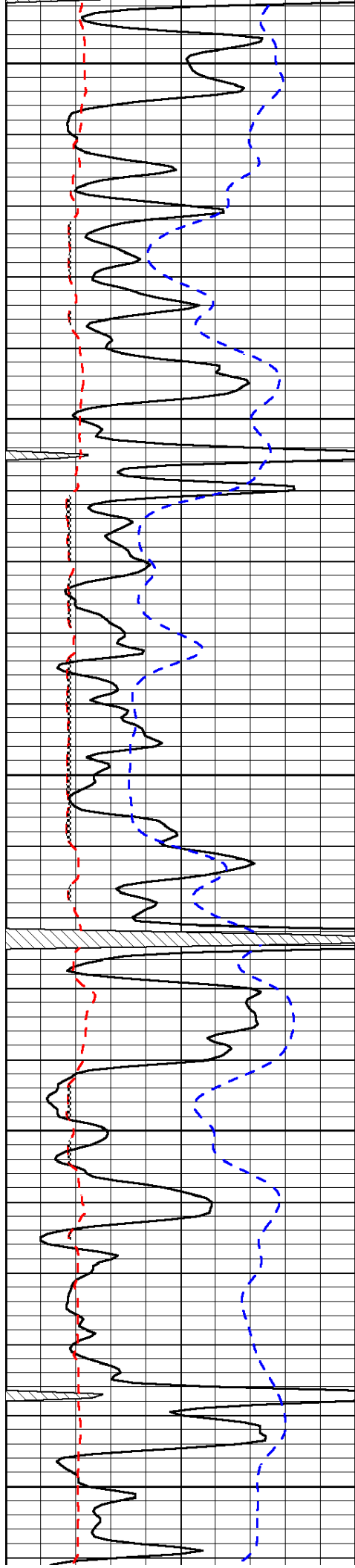


-31

-31

-31

-31



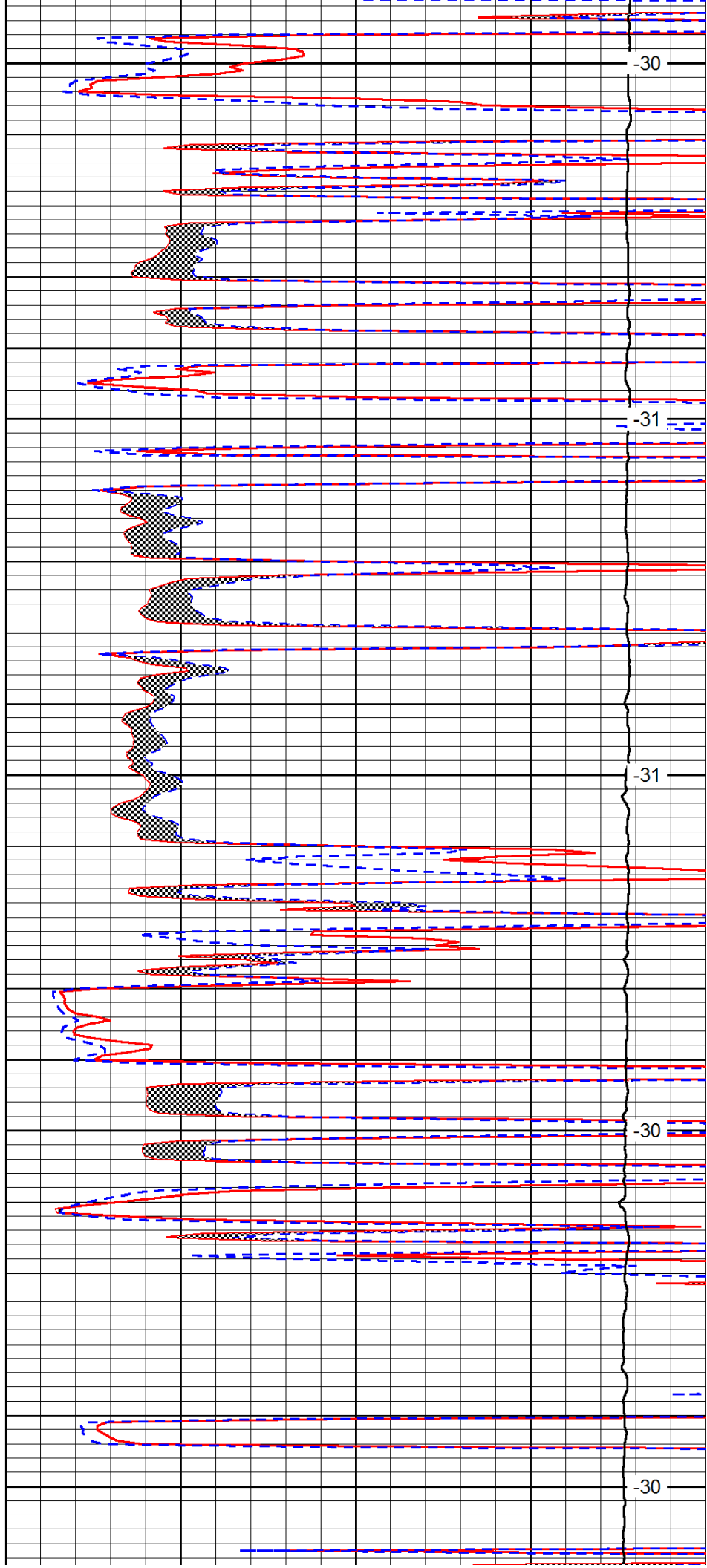
3800

3850

3900

3950

4000



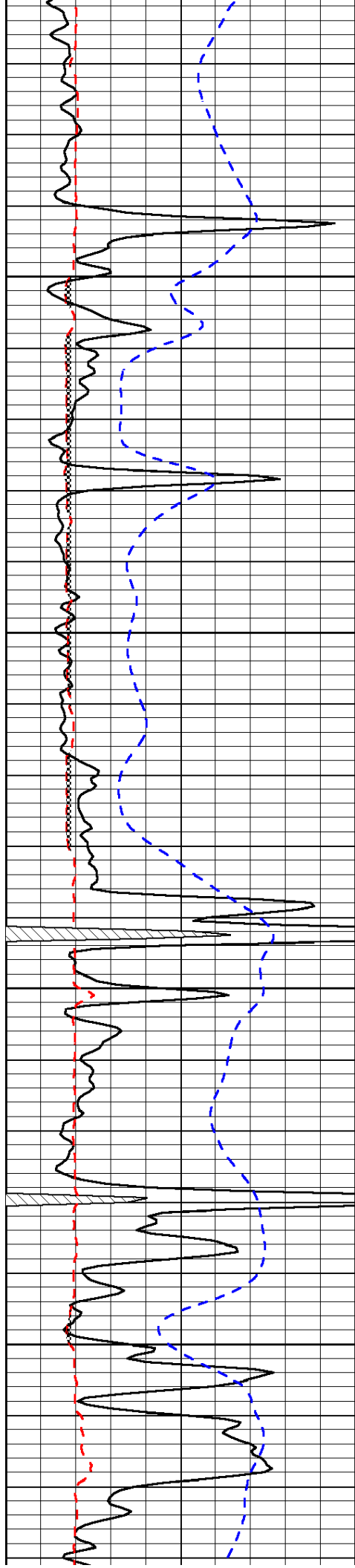
-30

-31

-31

-30

-30

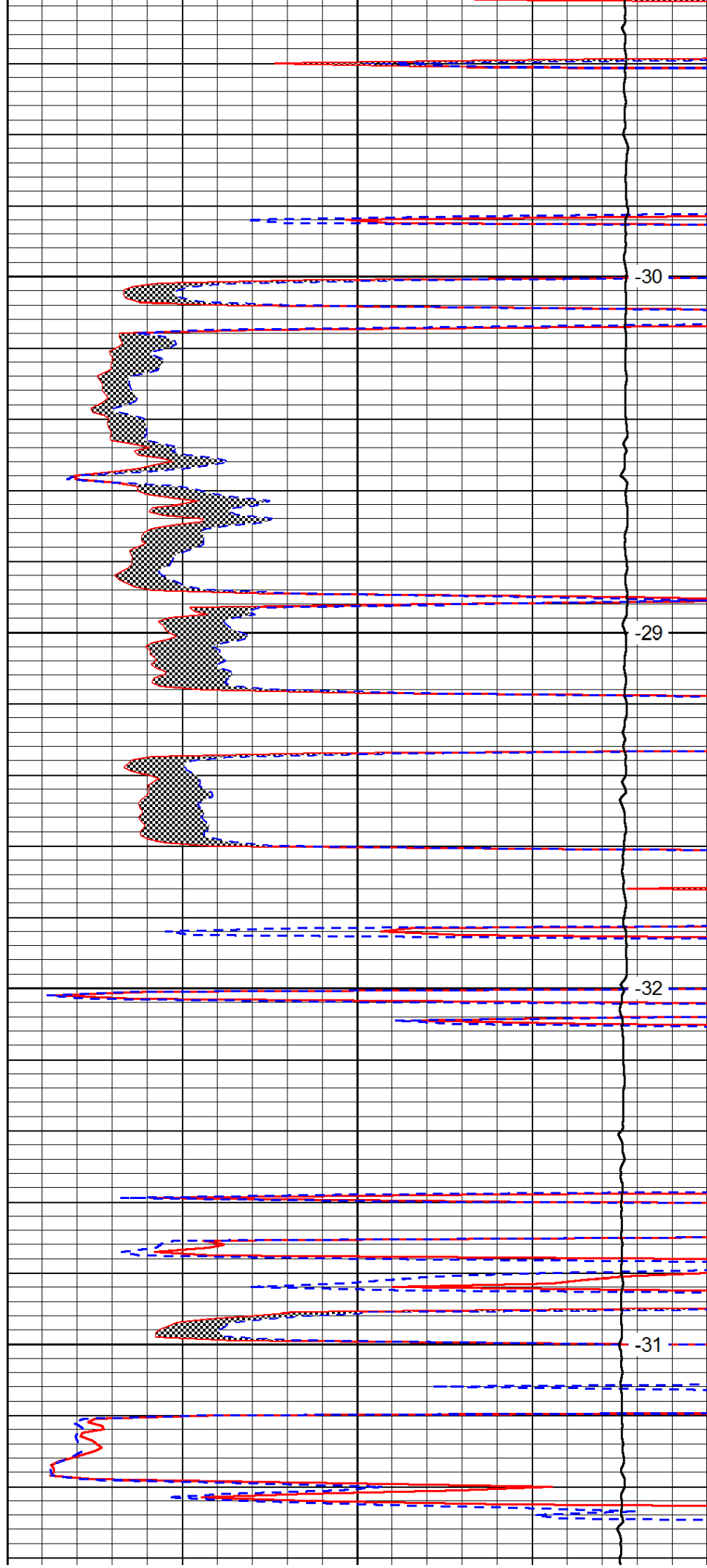


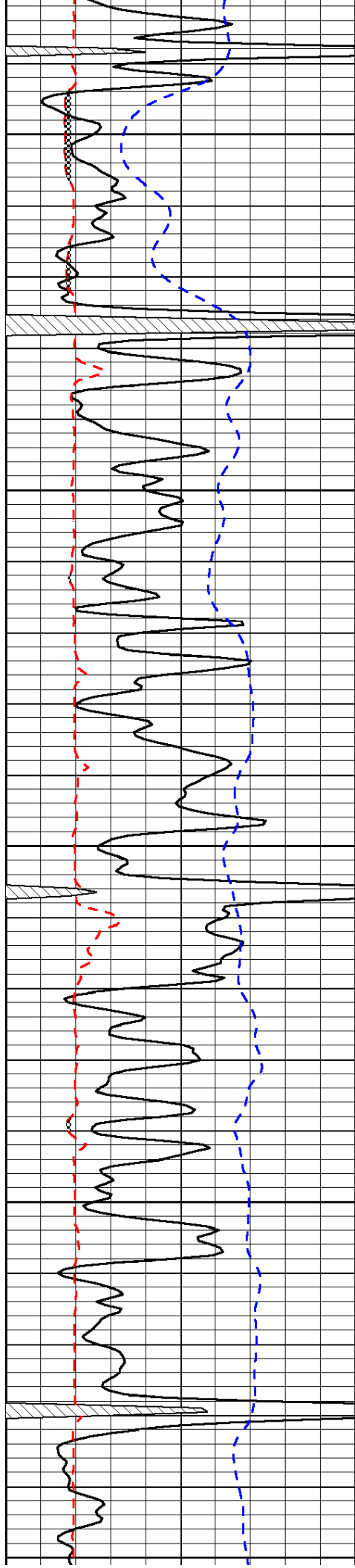
4050

4100

4150

4200





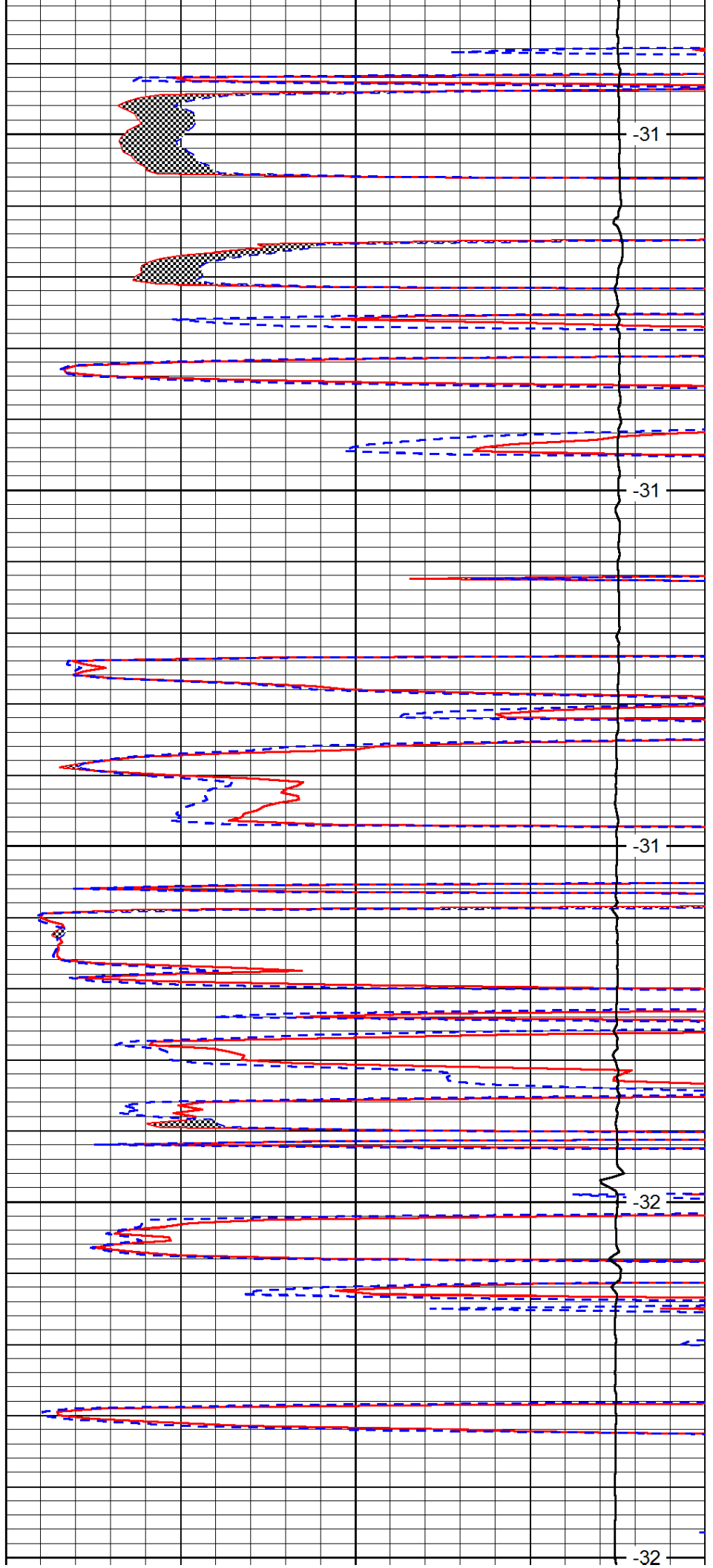
4250

4300

4350

4400

4450



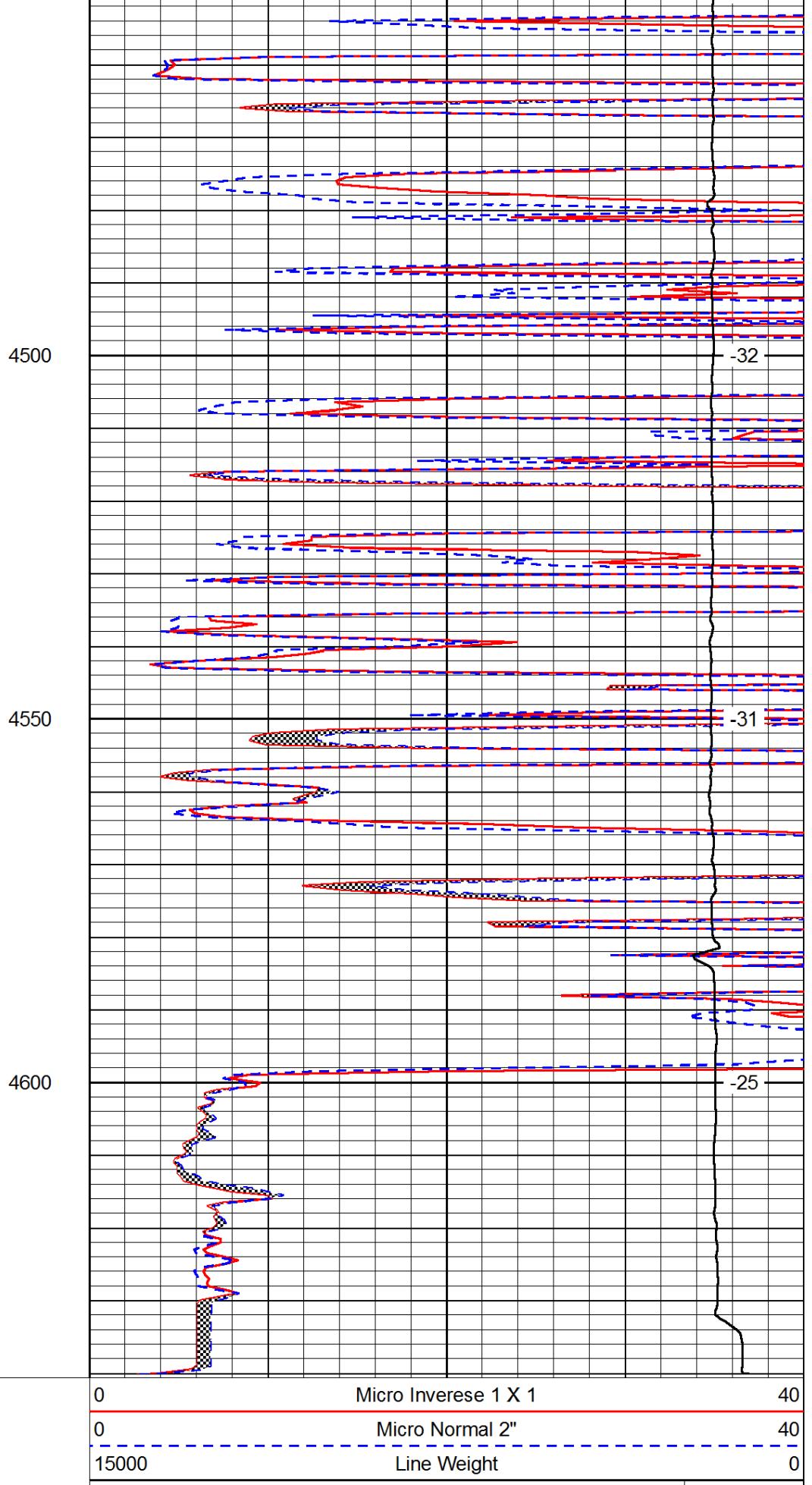
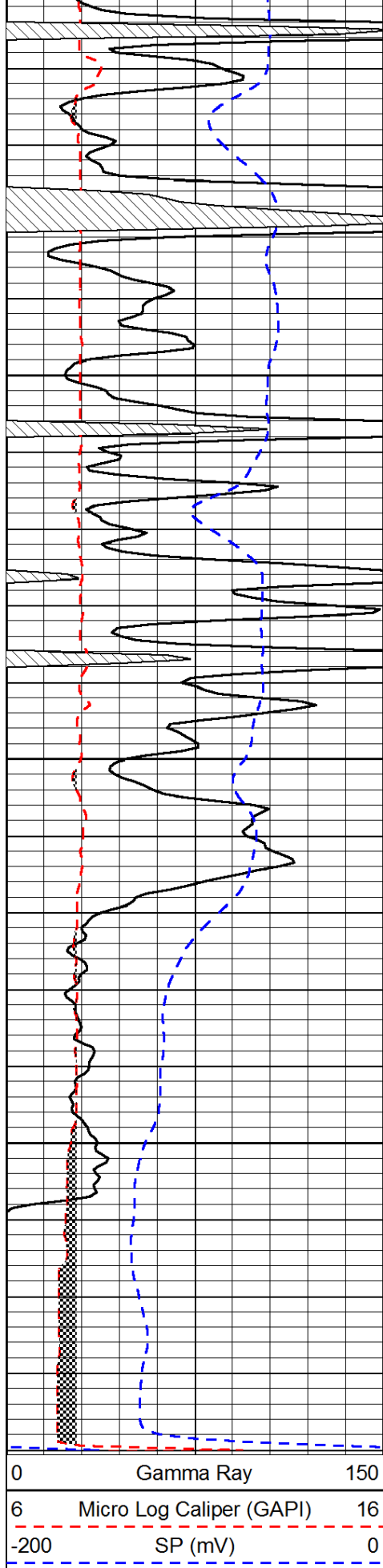
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-32

-32



LSPD