



# Microresistivity Log

Pioneer Energy Services

API No.

15-145-21757-00-00

Company **Downing-Nelson Oil Company, Inc.**

Well **Leta Faye # 1-20**

Field **Wildcat**

County **Pawnee** State

**Kansas**

Location

**565' FNL & 1595' FEL**

Other Services  
CNL/CDL  
DIL/BHCS

Sec: **20**

Twp: **23 S**

Rge: **18 W**

Elevation

K.B. 2150  
D.F. 2137  
G.L. 2137

Permanent Datum  
Ground Level

Elevation 2137

Log Measured From  
Kelly Bushing

13 Ft. Above Perm. Datum

Drilling Measured From  
Kelly Bushing

Date

**5/27/2014**

Run Number

**Two**

Depth Driller

**4880**

Depth Logger

**4879**

Bottom Logged Interval

**4878**

Top Log Interval

**3650**

Casing Driller

**8.625 @ 1222**

Casing Logger

**1222**

Bit Size

**7.875**

Type Fluid in Hole

**Chemical**

Salinity, ppm CL

**6000**

Density / Viscosity

**9.3 54**

pH / Fluid Loss

**8.5 8.0**

Source of Sample

**Flowline**

Rm @ Meas. Temp

**0.75 @ 68**

Rmf @ Meas. Temp

**0.56 @ 68**

Rmc @ Meas. Temp

**1.01 @ 68**

Source of Rmf / Rmc

**Charts**

Rm @ BHT

**0.41 @ 125**

Operating Rig Time

**5 Hours**

Max Rec. Temp. F

**125**

Equipment Number

**17**

Location

**Hays**

Recorded By

**Y. Ruiz**

Witnessed By

**Marc Downing**

<<< Fold Here >>>

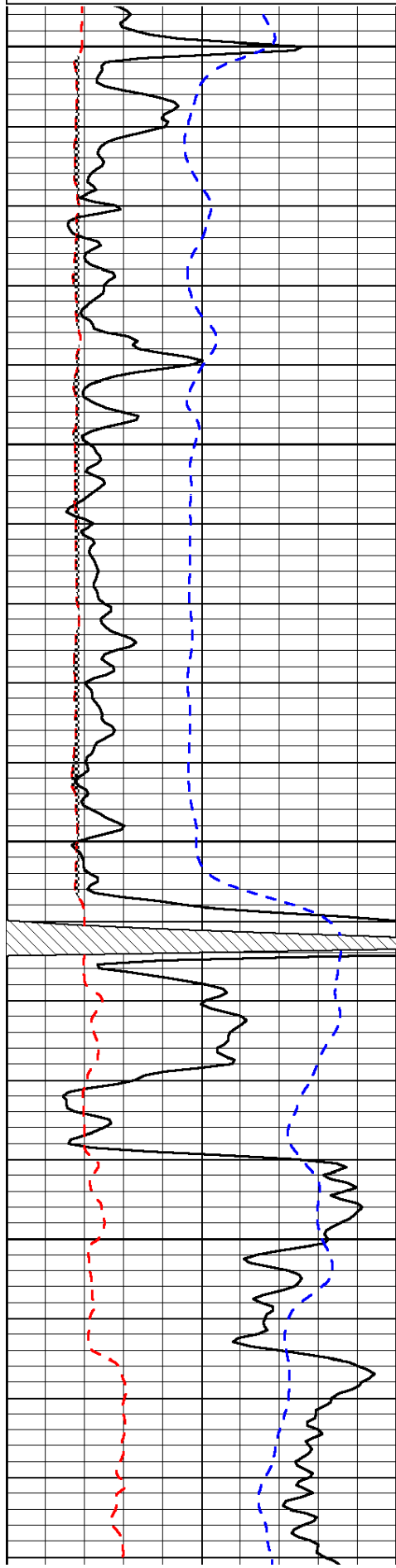
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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  
Hwy 183 & Hwy 1-56,  
South to D Rd, 1/2 West,  
South into

Database File: c:\warrior\data\downing-nelson\_leta faye # 1-20\downing\_052714hd.db  
Dataset Pathname: DIL\dowstk  
Presentation Format: micro  
Dataset Creation: Tue May 27 14:40:26 2014  
Charted by: Depth in Feet scaled 1:240

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



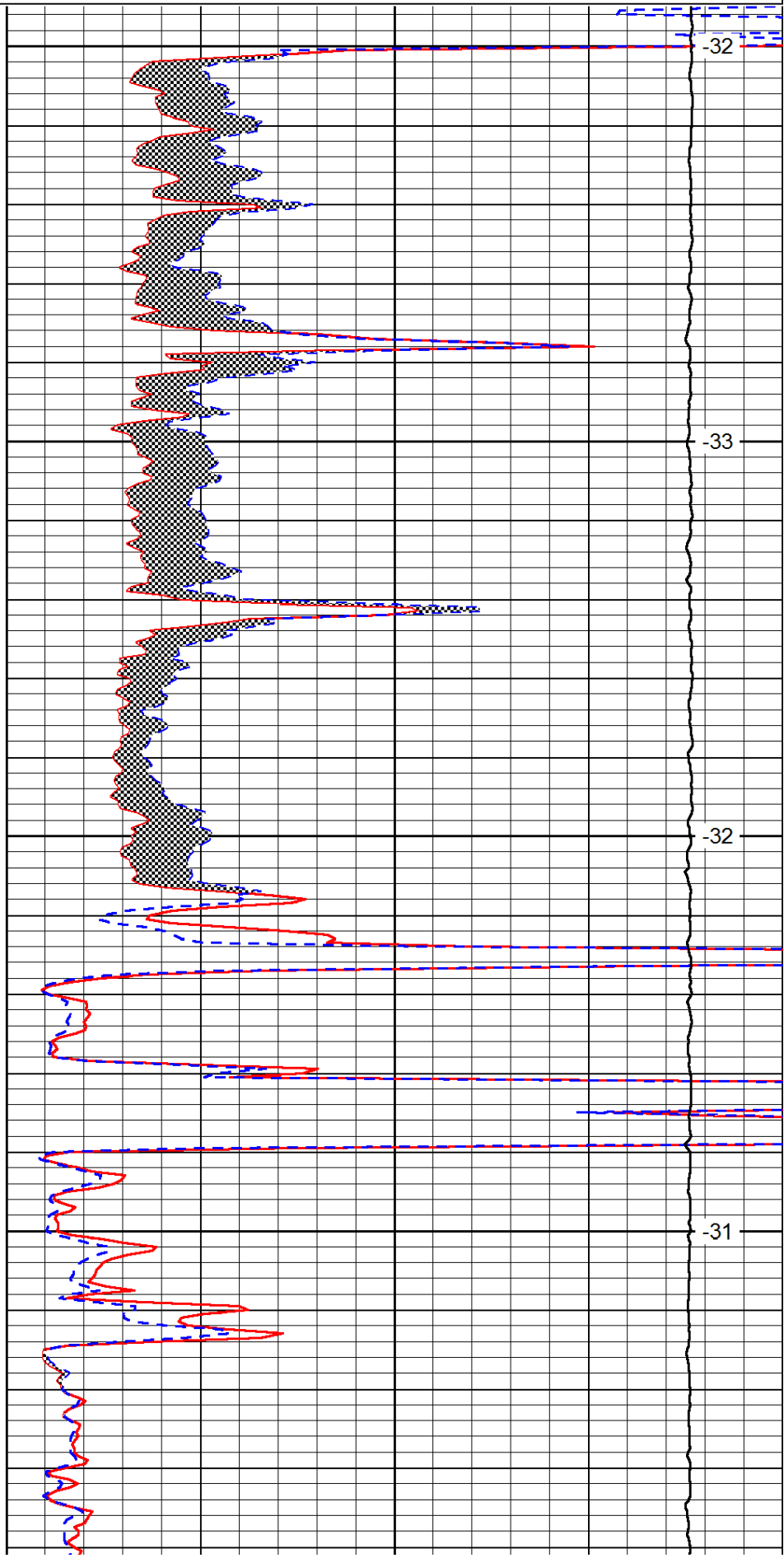
3650

3700

3750

3800

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



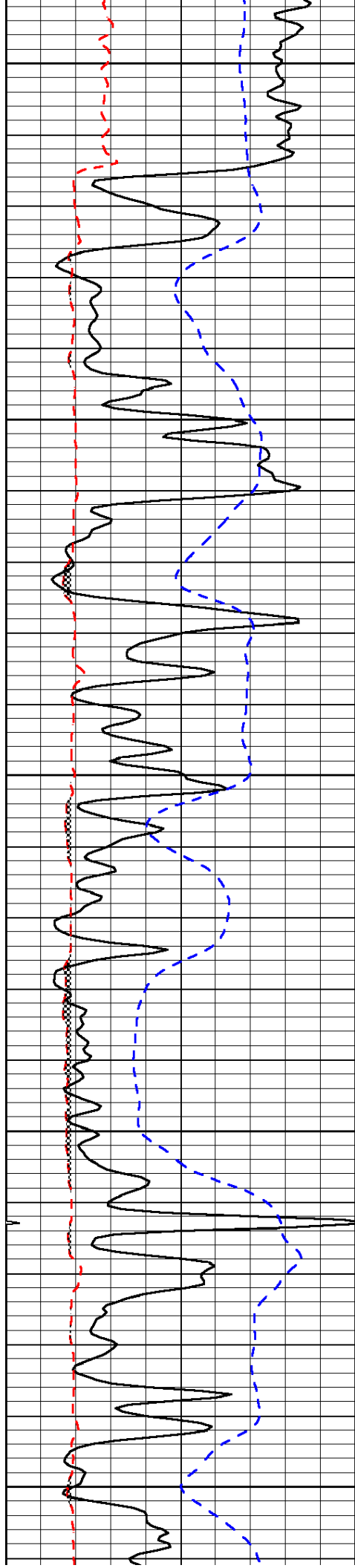
LSPD

-32

-33

-32

-31



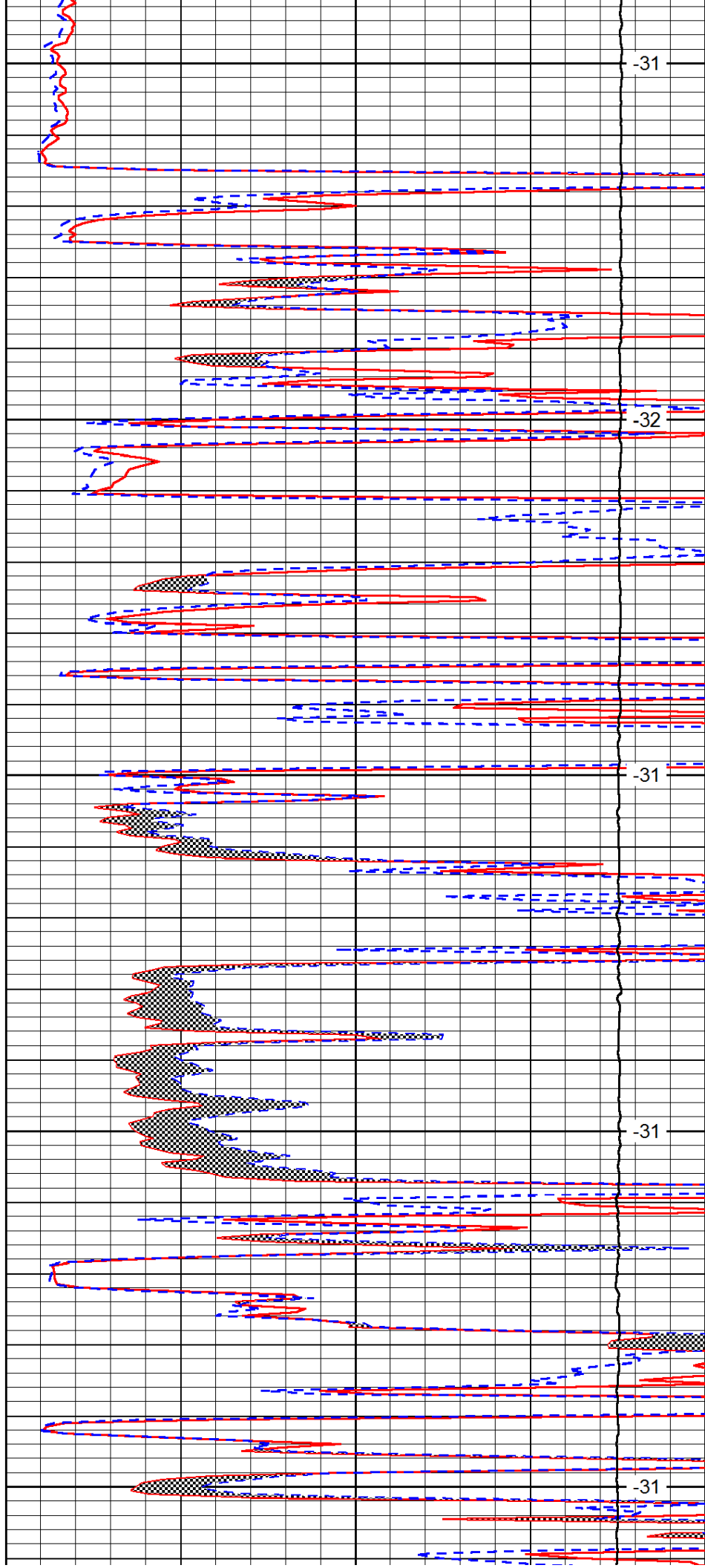
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3900

3950

4000

4050



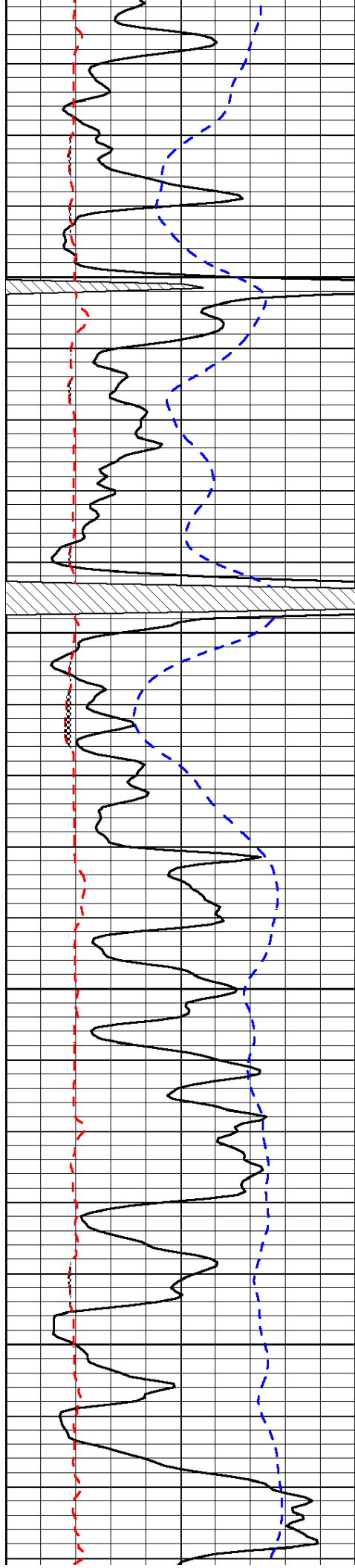
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-31

-31

-31

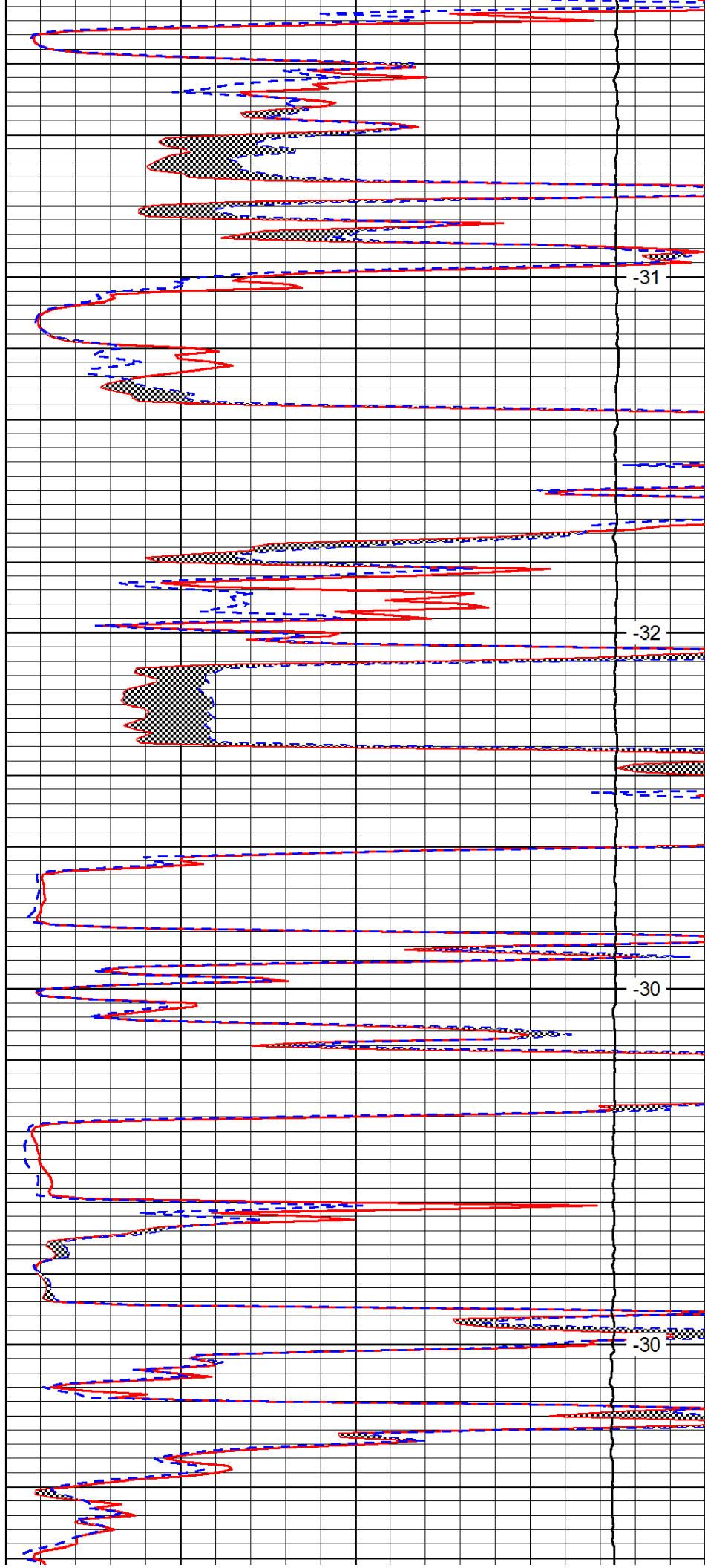


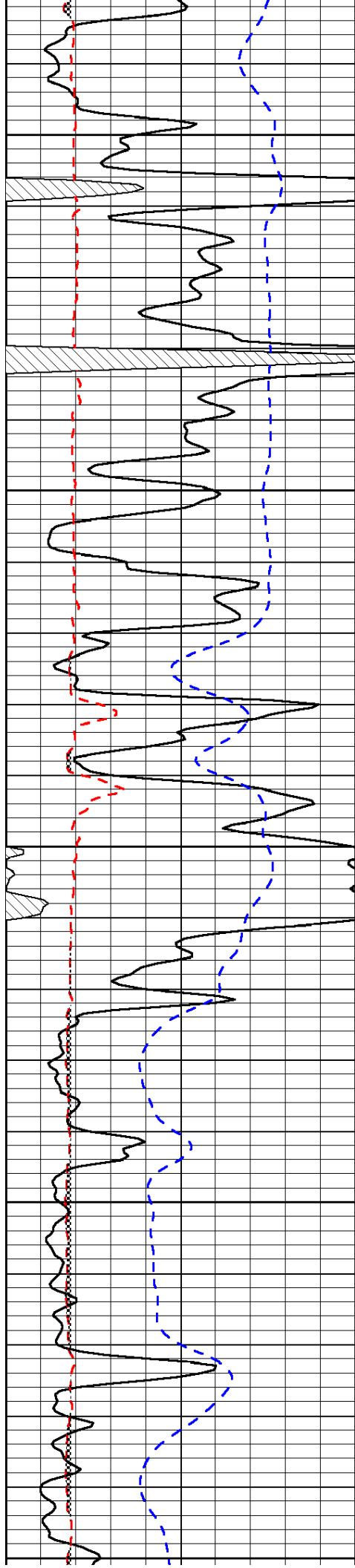
4100

4150

4200

4250





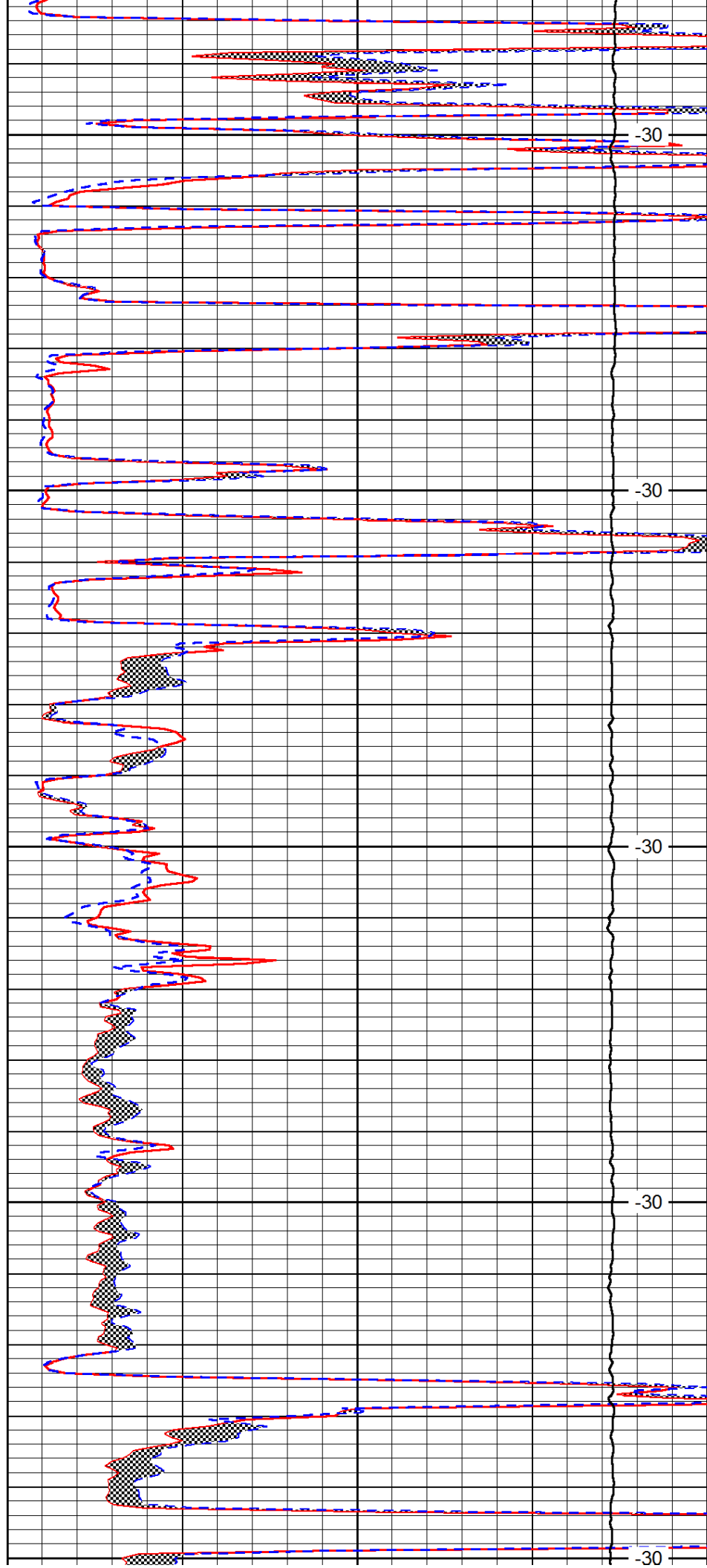
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4350

4400

4450

4500



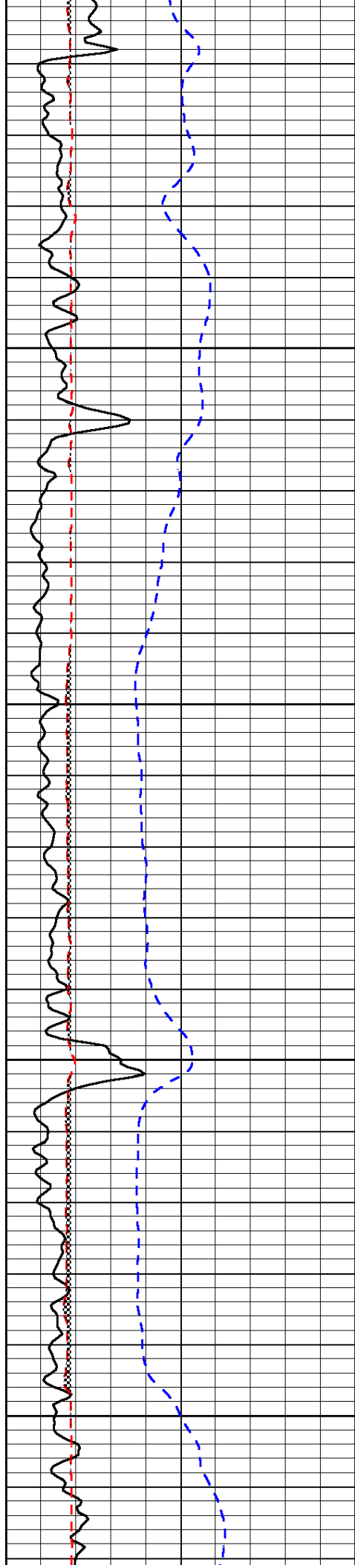
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-30

-30

-30

-30

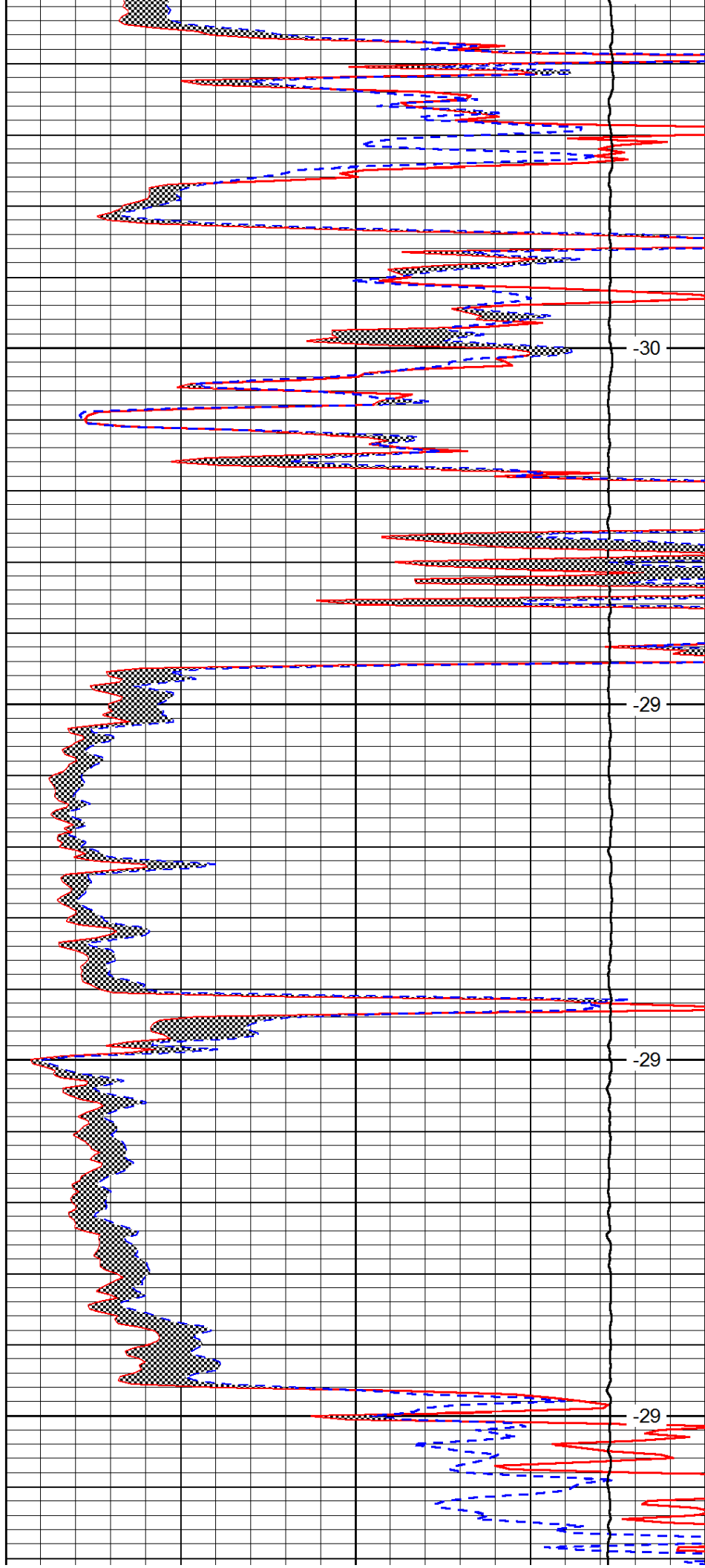


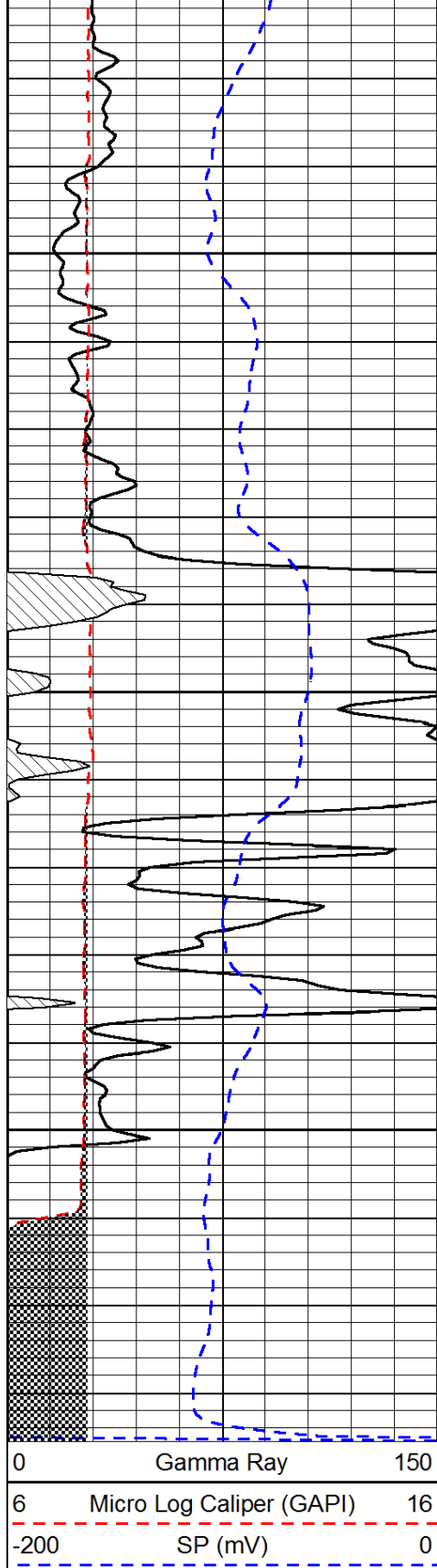
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4600

4650

4700

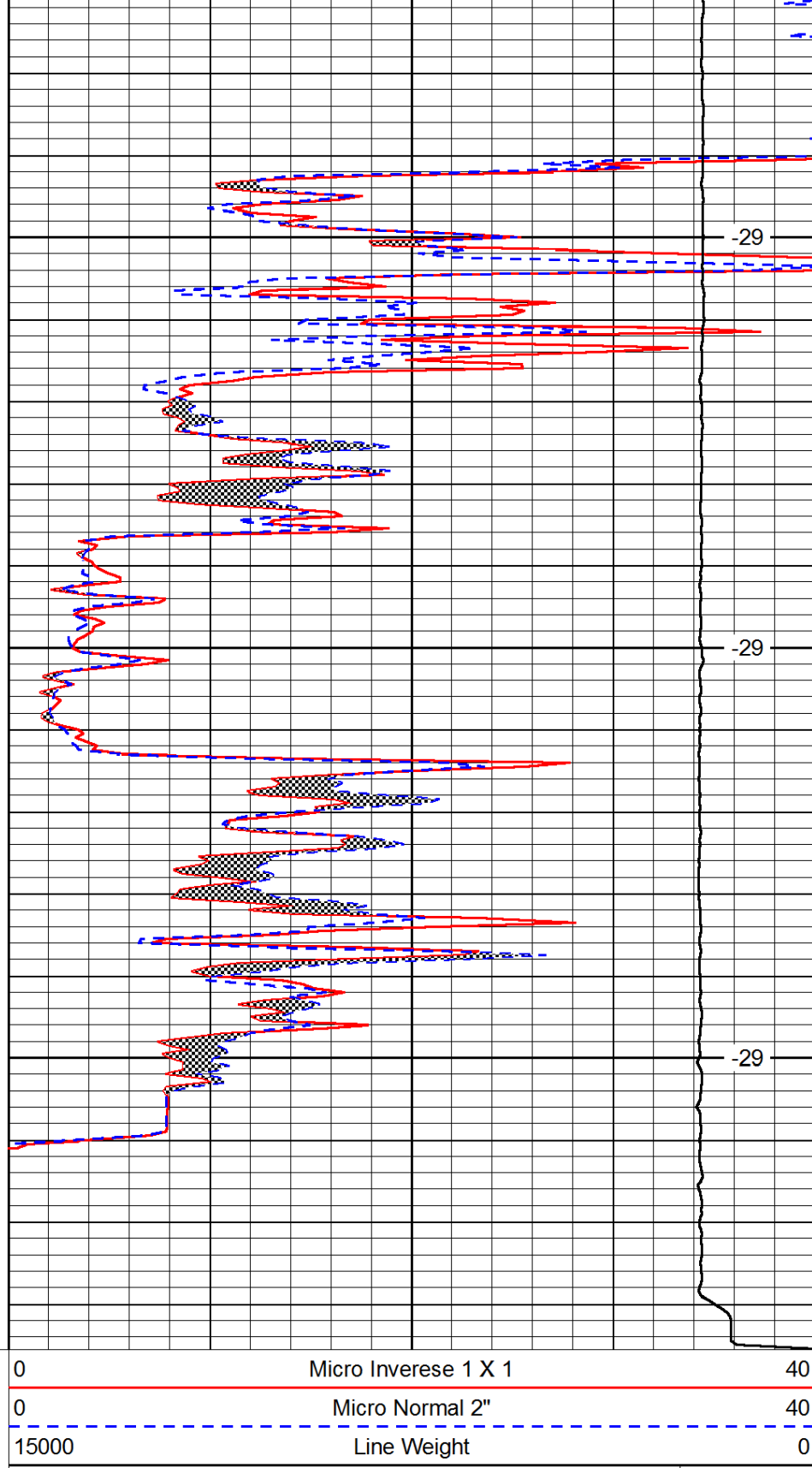




4750

4800

4850



LSPD