



Microresistivity Log

Pioneer Energy Services

API No.

15-063-22,209-00-00

Company Cobalt Energy, LLC

Well Yale "A" #1-24

Field

County Gove

State

Kansas

Location

1585' FSL & 750' FWL

Other Services
CNL/CDL
DIL

Sec: 24

Twp: 11S

Rge: 29W

Elevation

K.B. 2833
D.F.
G.L. 2821

Permanent Datum Ground Level

Elevation 2821

Log Measured From Kelly Bushing

12 Ft. Above Perm. Datum

Drilling Measured From Kelly Bushing

Date

8/22/2014

Run Number

One

Depth Driller

4650

Depth Logger

4655

Bottom Logged Interval

4654

Top Log Interval

3700

Casing Driller

8.625 @ 265

Casing Logger

264

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

1,900

Density / Viscosity

9.4 56

pH / Fluid Loss

10.0 8.4

Source of Sample

Flowline

Rm @ Meas. Temp

1.3 @ 74

Rmf @ Meas. Temp

.98 @ 74

Rmc @ Meas. Temp

1.76 @ 74

Source of Rmf / Rmc

Charts

Rm @ BHT

.78 @ 123

Operating Rig Time

3 Hours

Max Rec. Temp. F

123

Equipment Number

91

Location

Hays

Recorded By

C. Desaire

Witnessed By

Cliff Ottoway

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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.

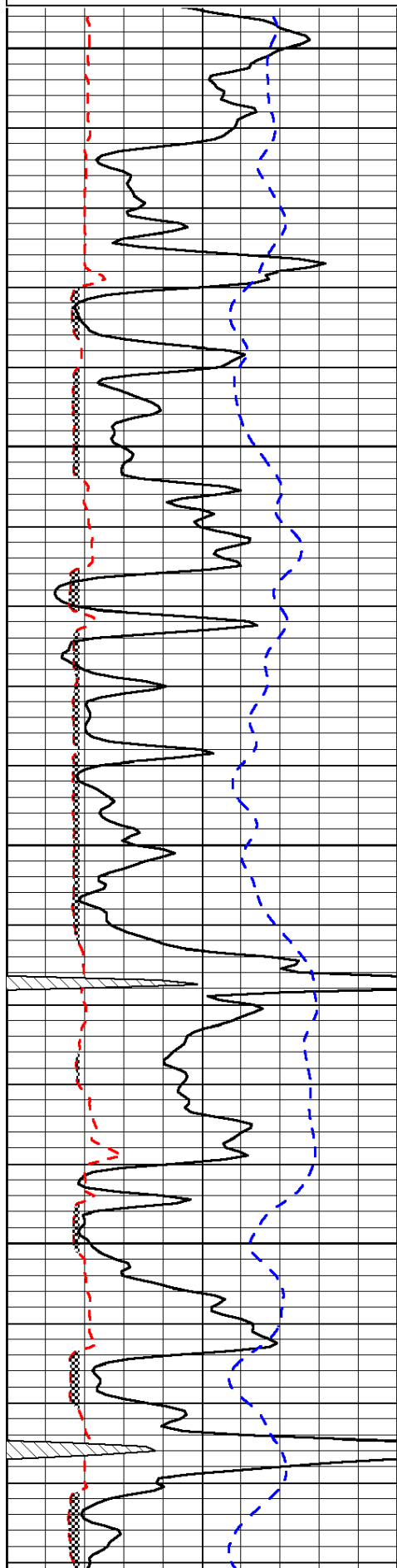
Comments

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

Grainfield KS, 2 S,
1 W, 1/2 N, E Into

Database File: c:\warrior\data\cobalt_yale a #1-24\cobhd2.db
Dataset Pathname: dil\cobstk2
Presentation Format: micro
Dataset Creation: Fri Aug 22 12:23:19 2014
Charted by: Depth in Feet scaled 1:240

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



3700

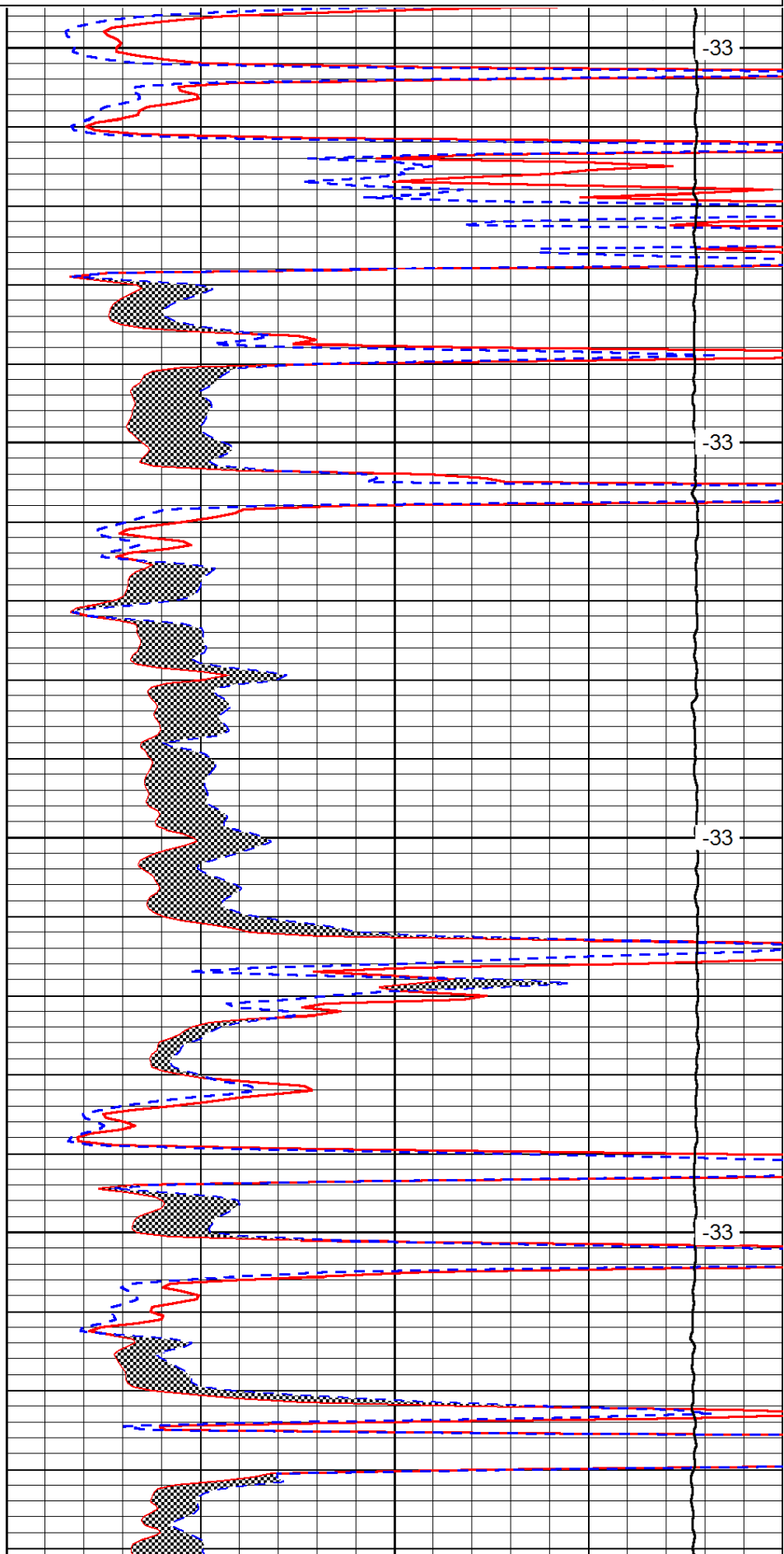
3750

3800

3850

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

LSPD

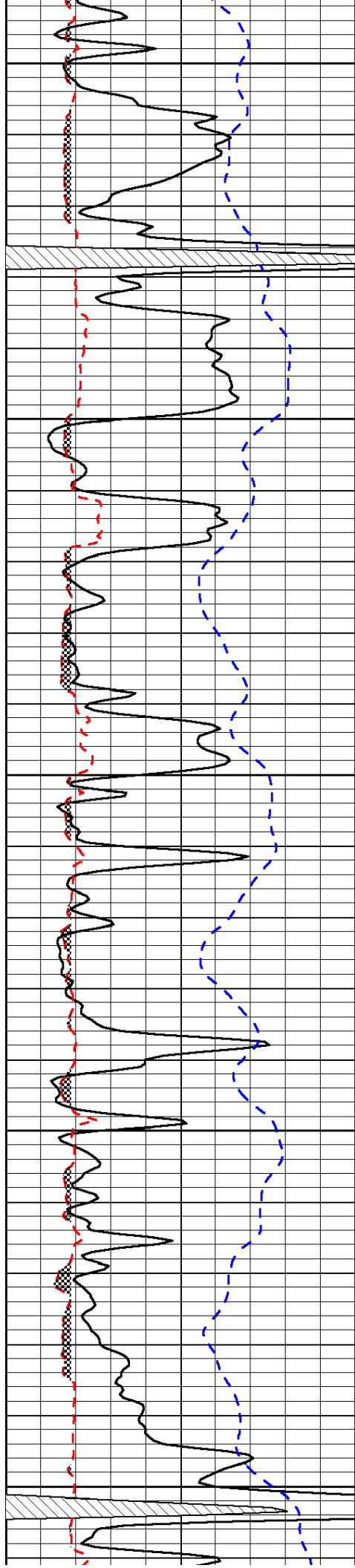


-33

-33

-33

-33



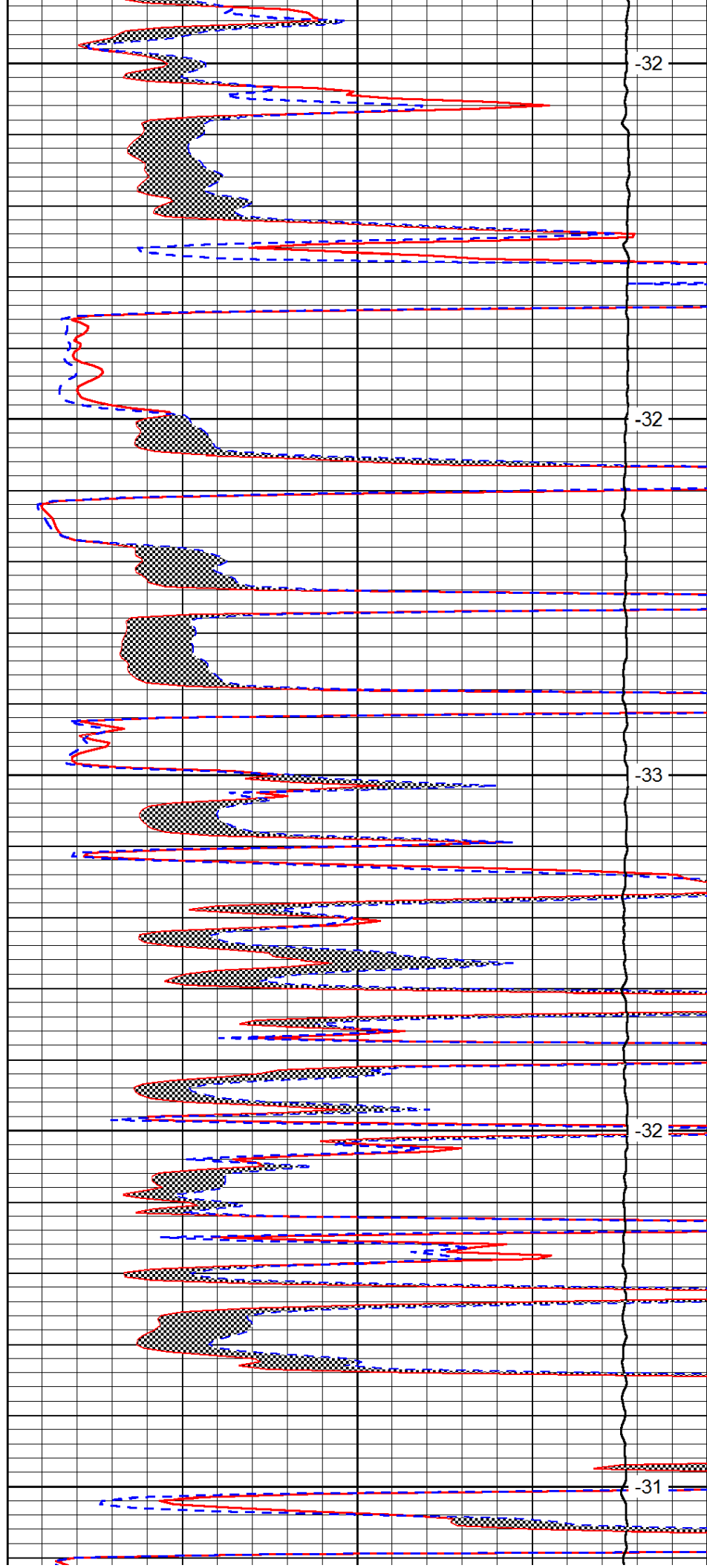
3900

3950

4000

4050

4100



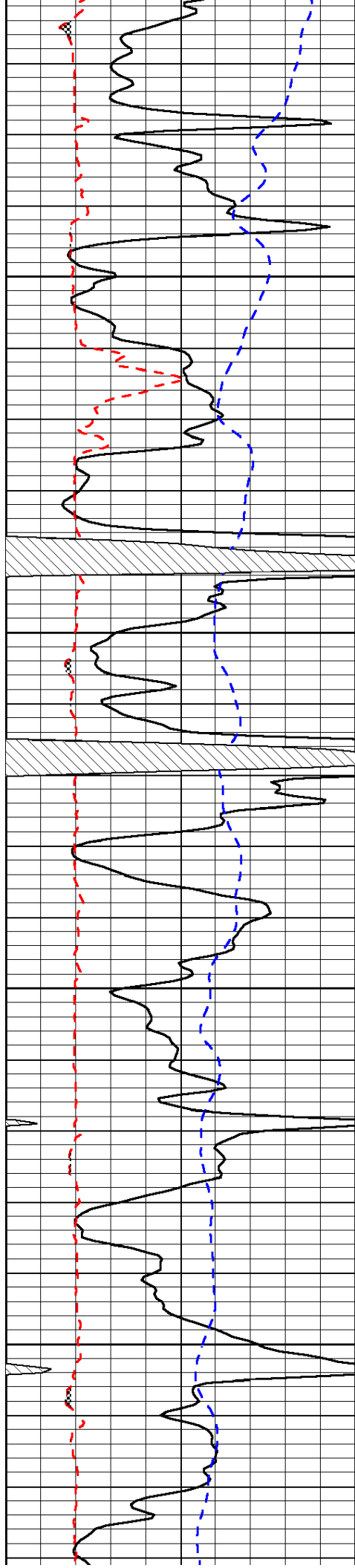
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-32

-33

-32

-31

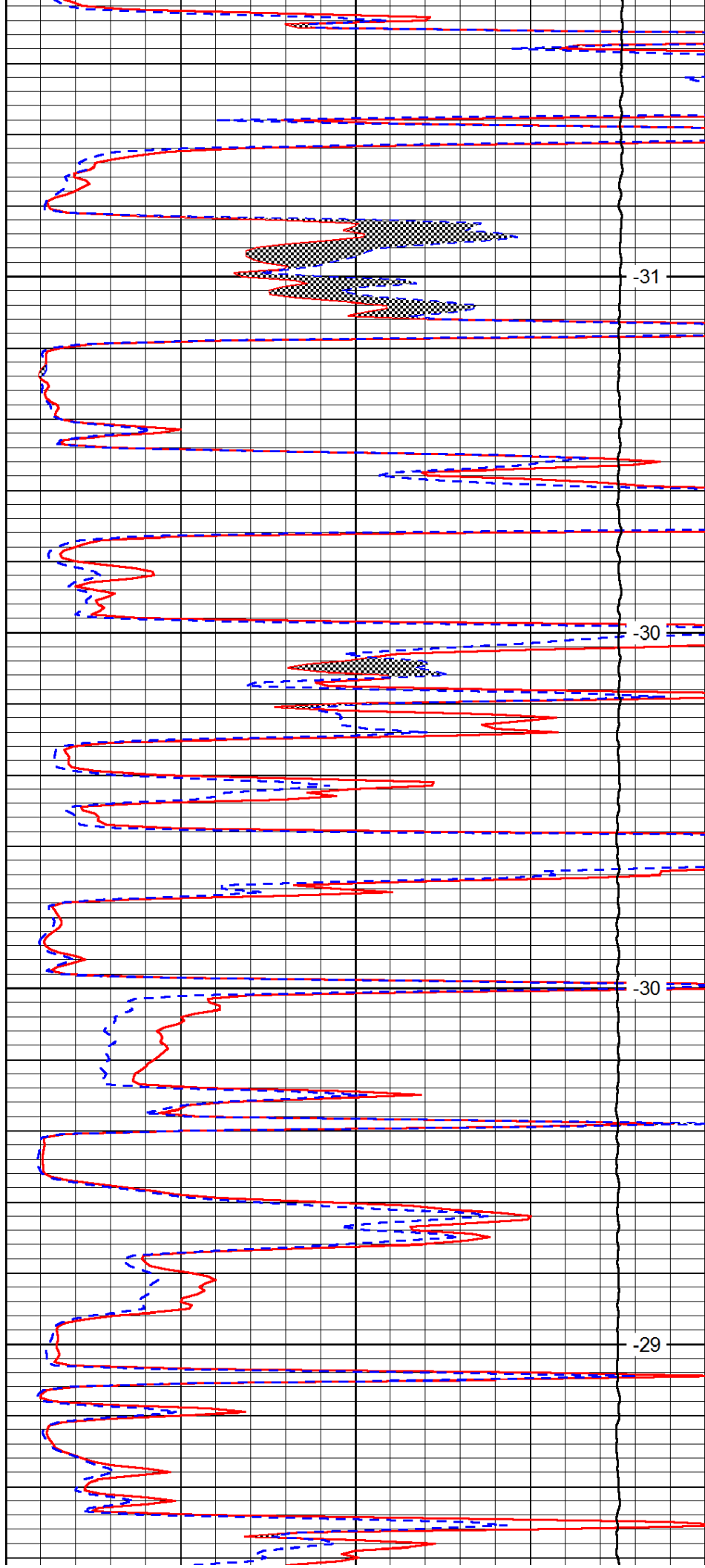


4150

4200

4250

4300

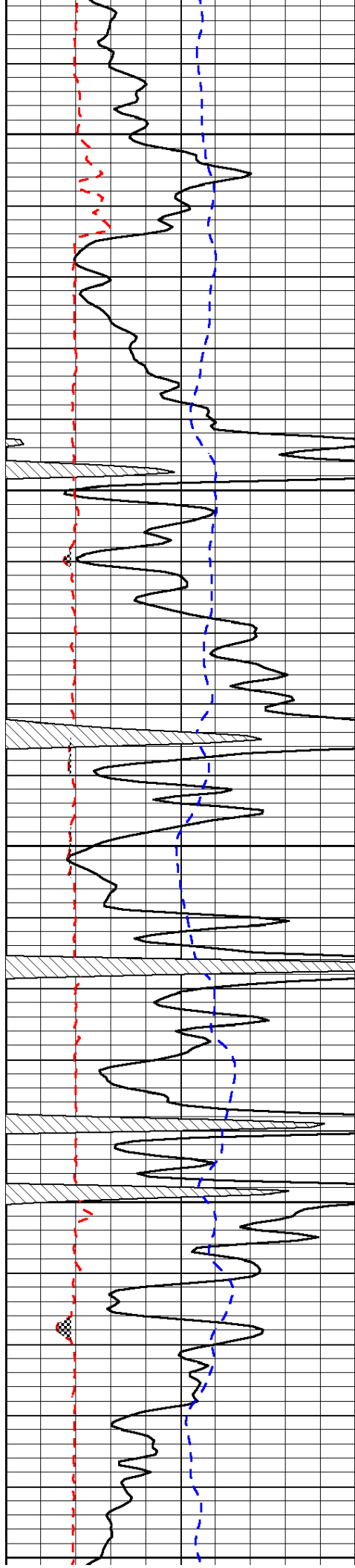


-31

-30

-30

-29



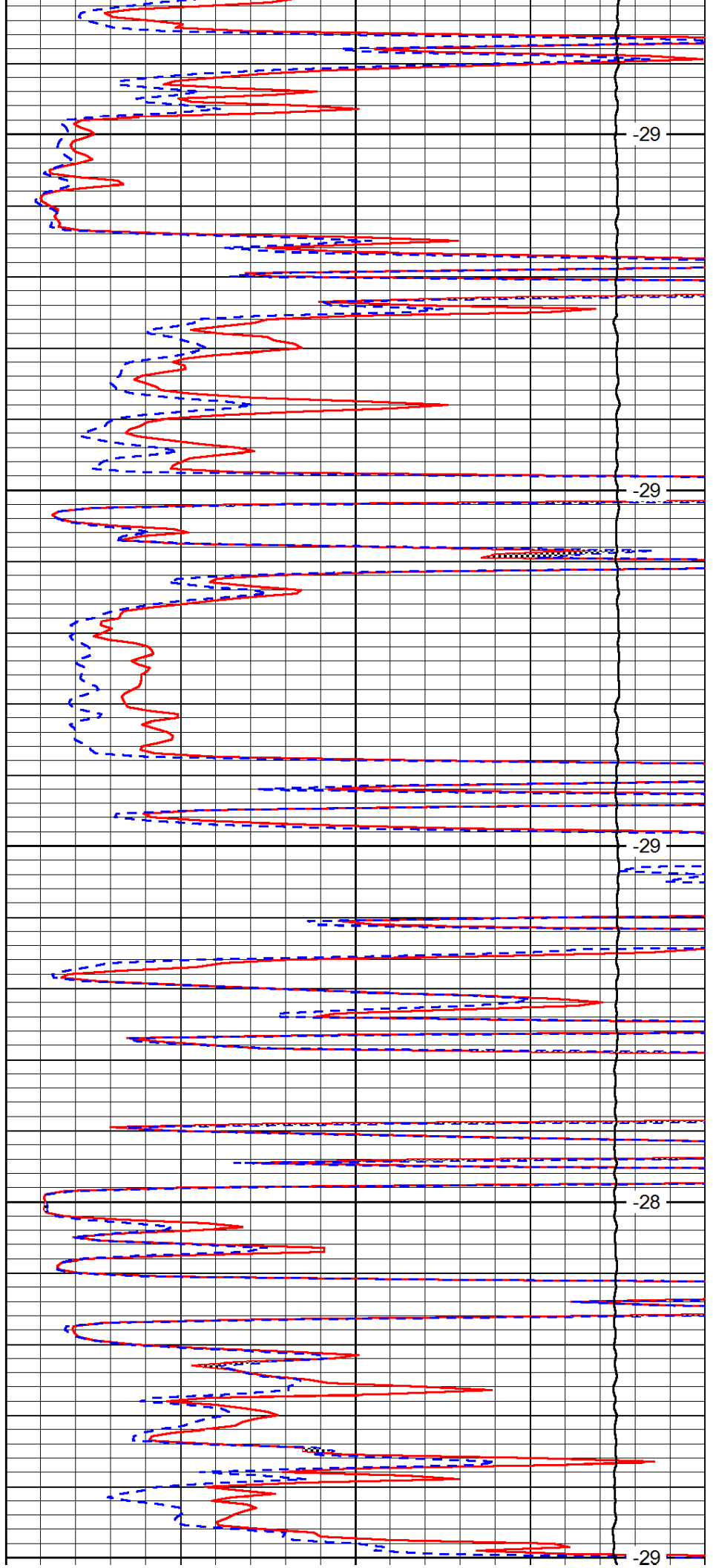
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4400

4450

4500

4550



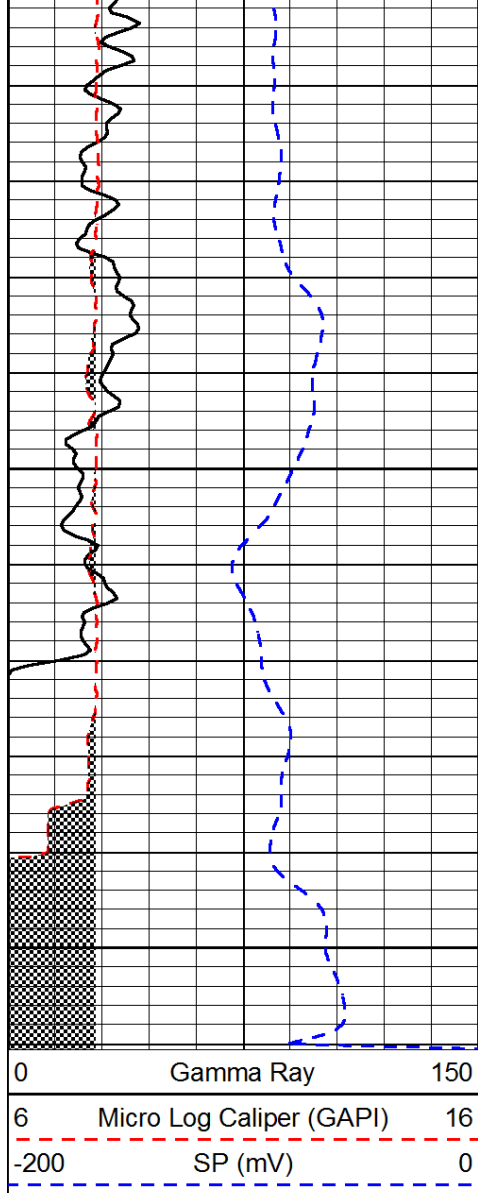
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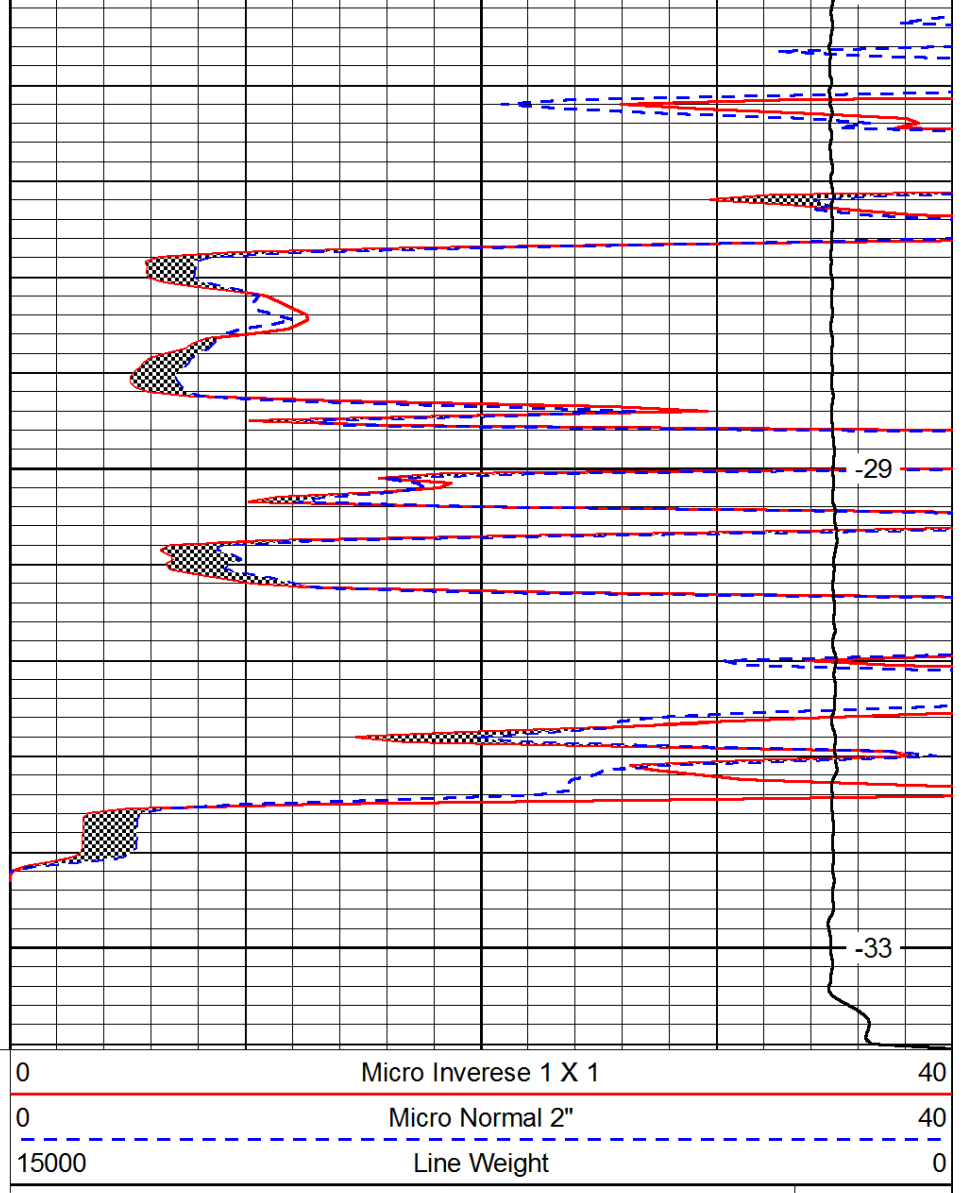
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-29



4600

4650



LSPD