



Pioneer Energy Services

Microresistivity
Log

API No.

15-153-21037-00-00

Company Murfin Drilling Company, Inc.

Well Virginia "A" #1-11

Field Wildcat

County Rawlins

State

Kansas

Location

2270' FNL / 2250' FEL

Other Services
CNL/CDL
DIL/BHCS

Sec: 11

Twp: 1S

Rge: 36W

Elevation

Permanent Datum Ground Level Elevation 3211
Log Measured From Kelly Bushing 11 Ft. Above Perm. Datum
Drilling Measured From Kelly BushingK.B. 3222
D.F.
G.L. 3211

Date

8/14/2014

Run Number

Two

Depth Driller

4752

Depth Logger

4754

Bottom Logged Interval

4753

Top Log Interval

3500

Casing Driller

8.625 @ 222

Casing Logger

222

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

700

Density / Viscosity

8.8 89

pH / Fluid Loss

9.5 8.6

Source of Sample

Flowline

Rm @ Meas. Temp

0.85 @ 84

Rmf @ Meas. Temp

0.64 @ 84

Rmc @ Meas. Temp

1.15 @ 84

Source of Rmf / Rmc

Charts

Rm @ BHT

0.58 @ 124

Operating Rig Time

5 Hours

Max Rec. Temp. F

124

Equipment Number

15

Location

Hays

Recorded By

R. Barnhart

Witnessed By

Robert Hendrix

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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.

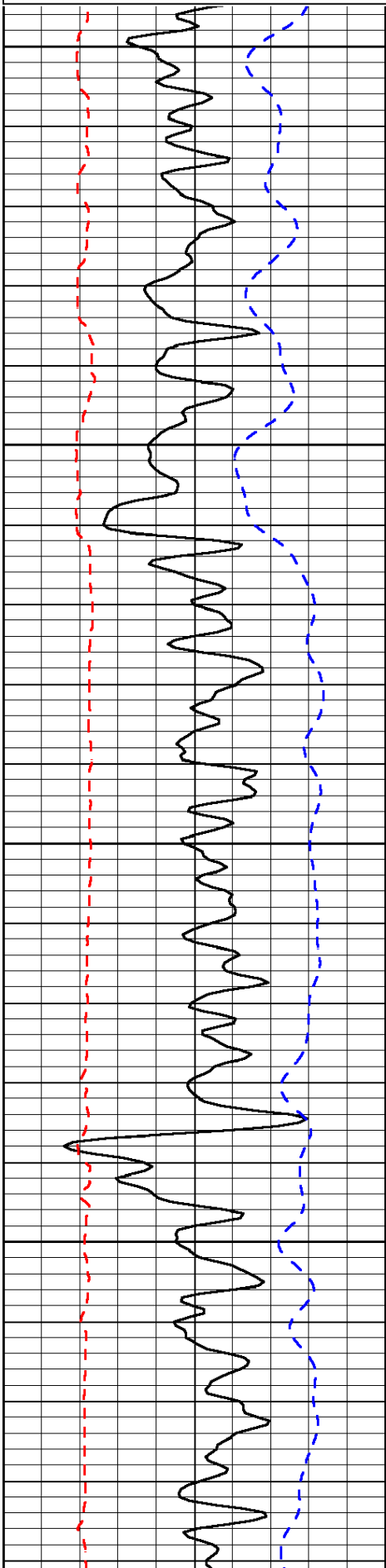
Comments

Thank you for using Log-Tech, Inc.
(785) 625-3858

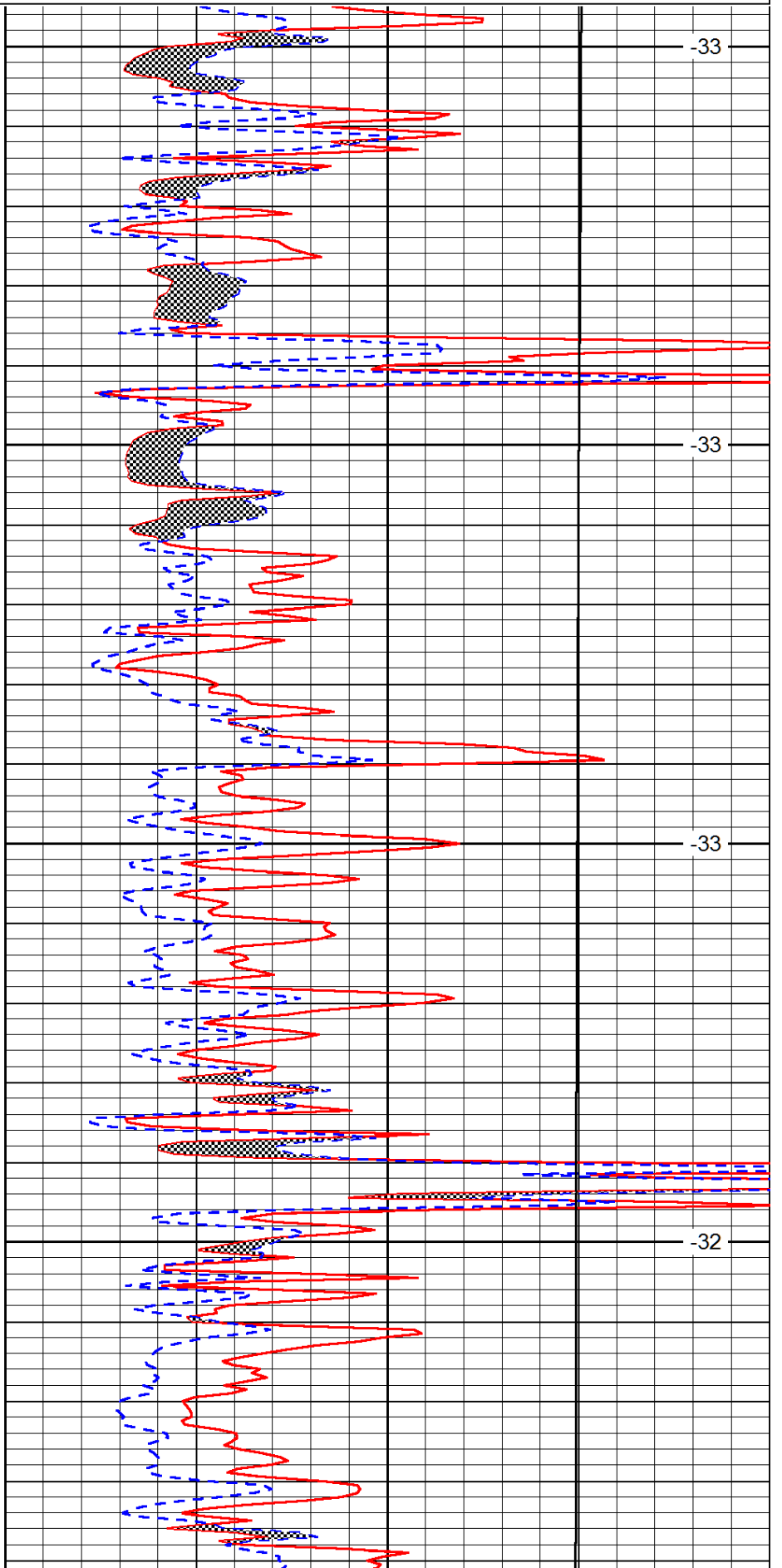
Beardsley, KS:
N to Y Rd., W to 6 Rd., N past BB Rd. to rig

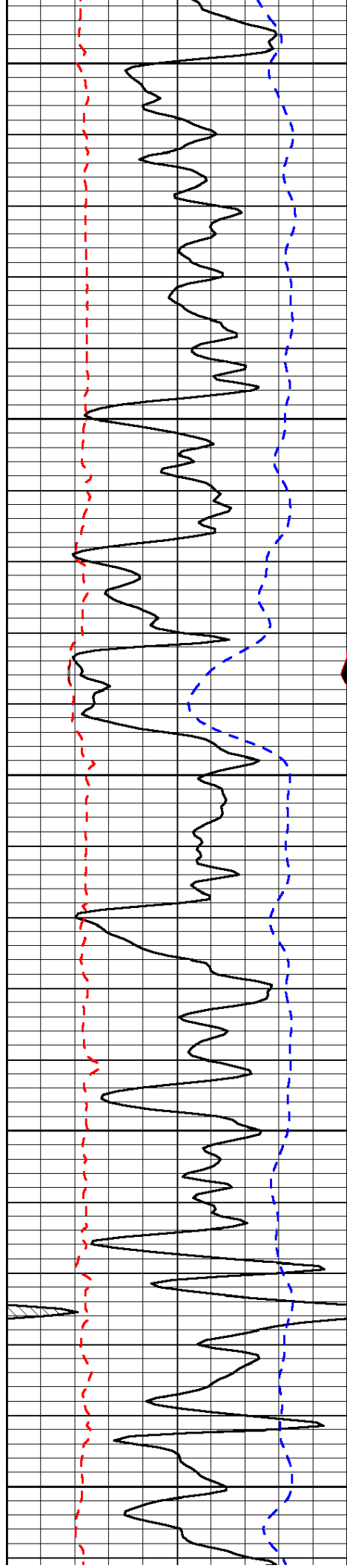
Database File: murfin_hd.db
Dataset Pathname: dil/mfnmain
Presentation Format: micro
Dataset Creation: Thu Aug 14 15:01:43 2014
Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150
6	MCAL (GAPI)	16
2.875	Mud Cake (GAPI)	7.875
-200	SP (mV)	0



0	Micro Inverse 1 X 1	40
0	Micro Normal 2"	40
10000	Line Weight	0





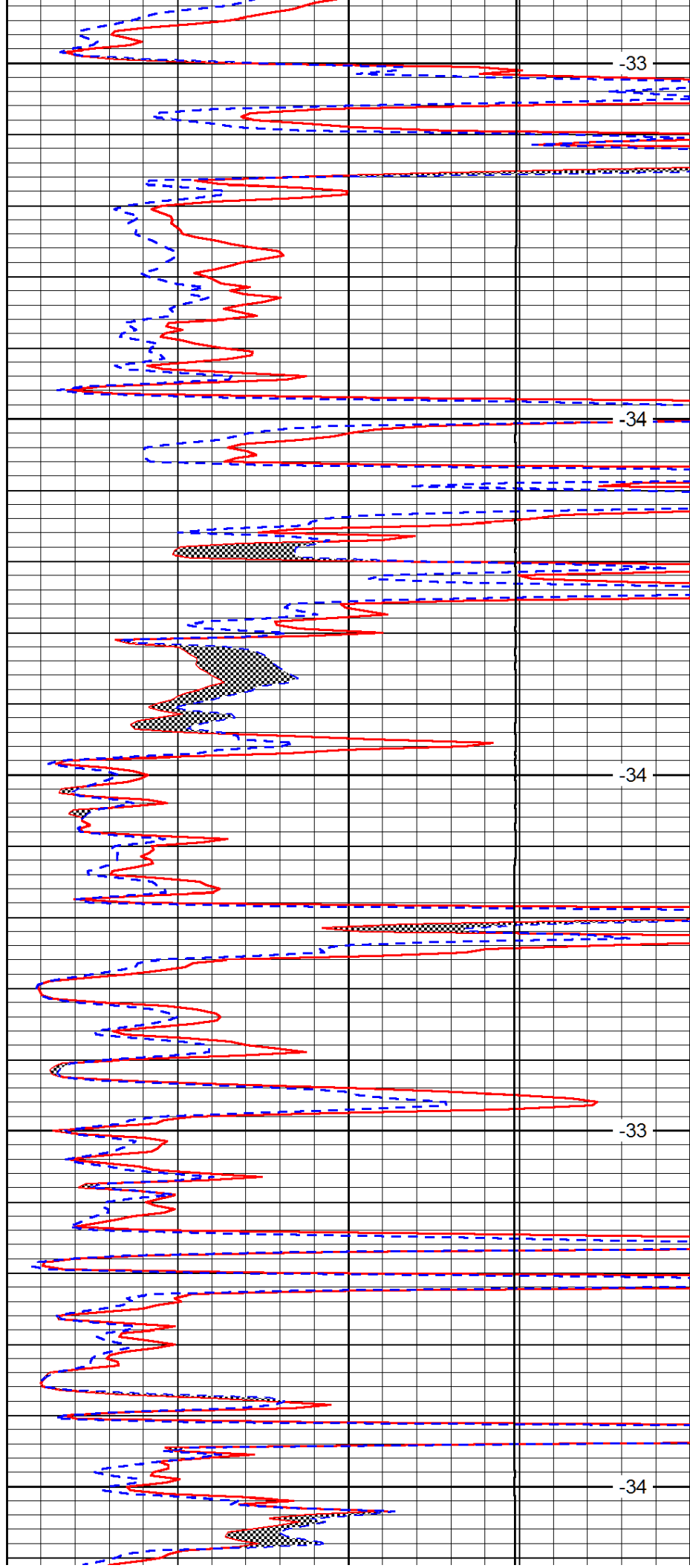
3700

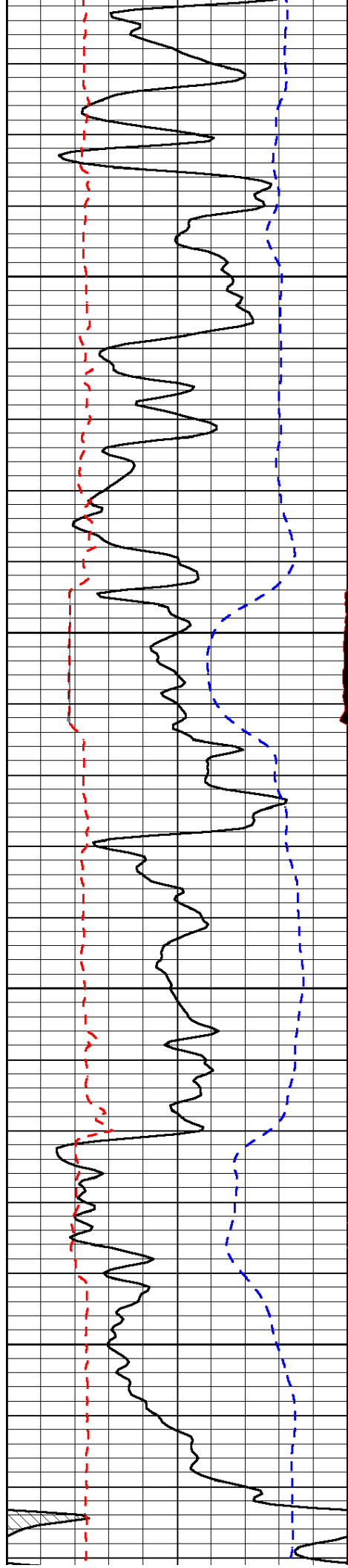
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3800

3850

3900



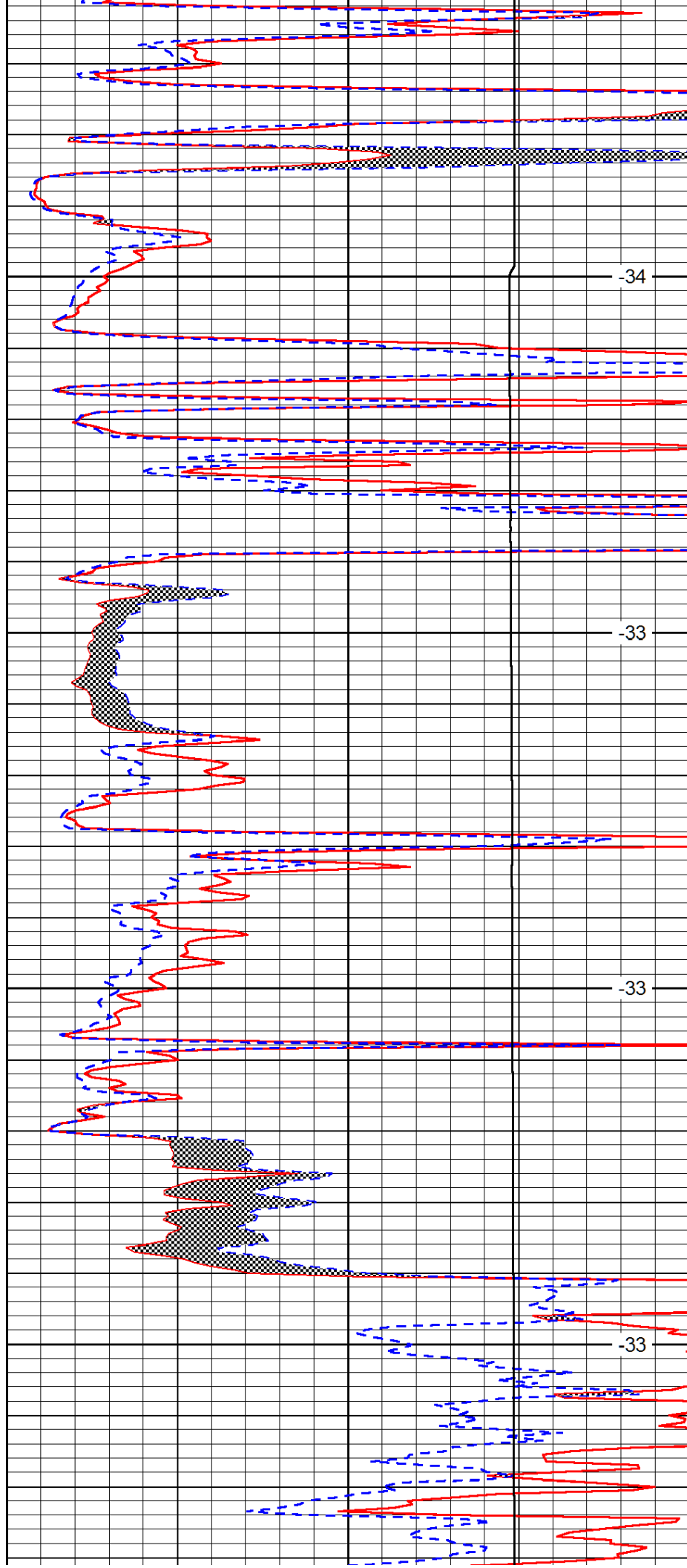


3950

4000

4050

4100

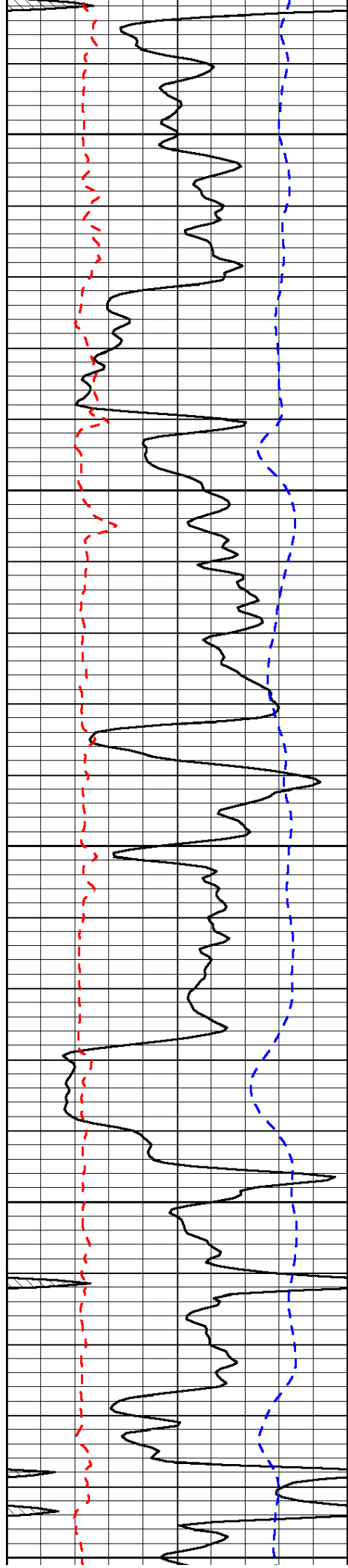


-34

-33

-33

-33



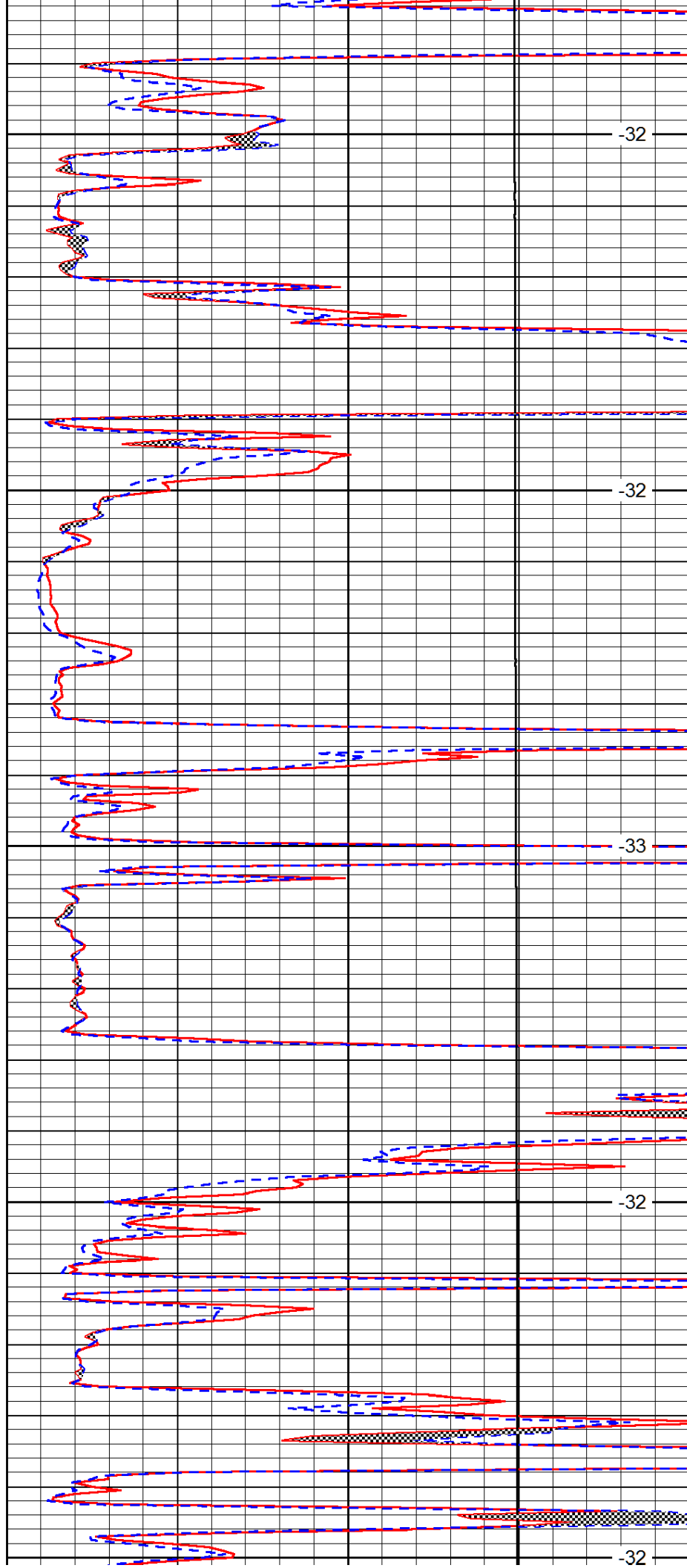
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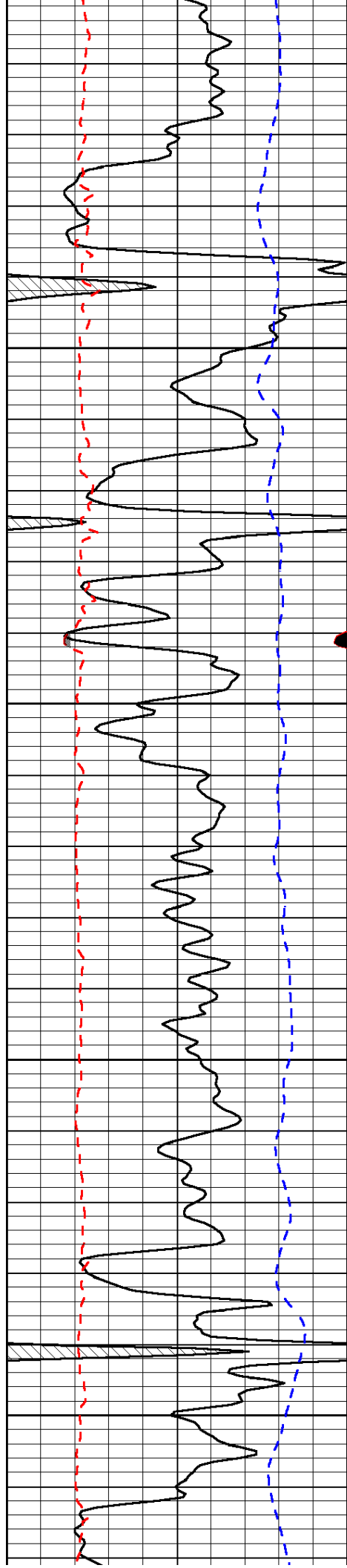
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4300

4350



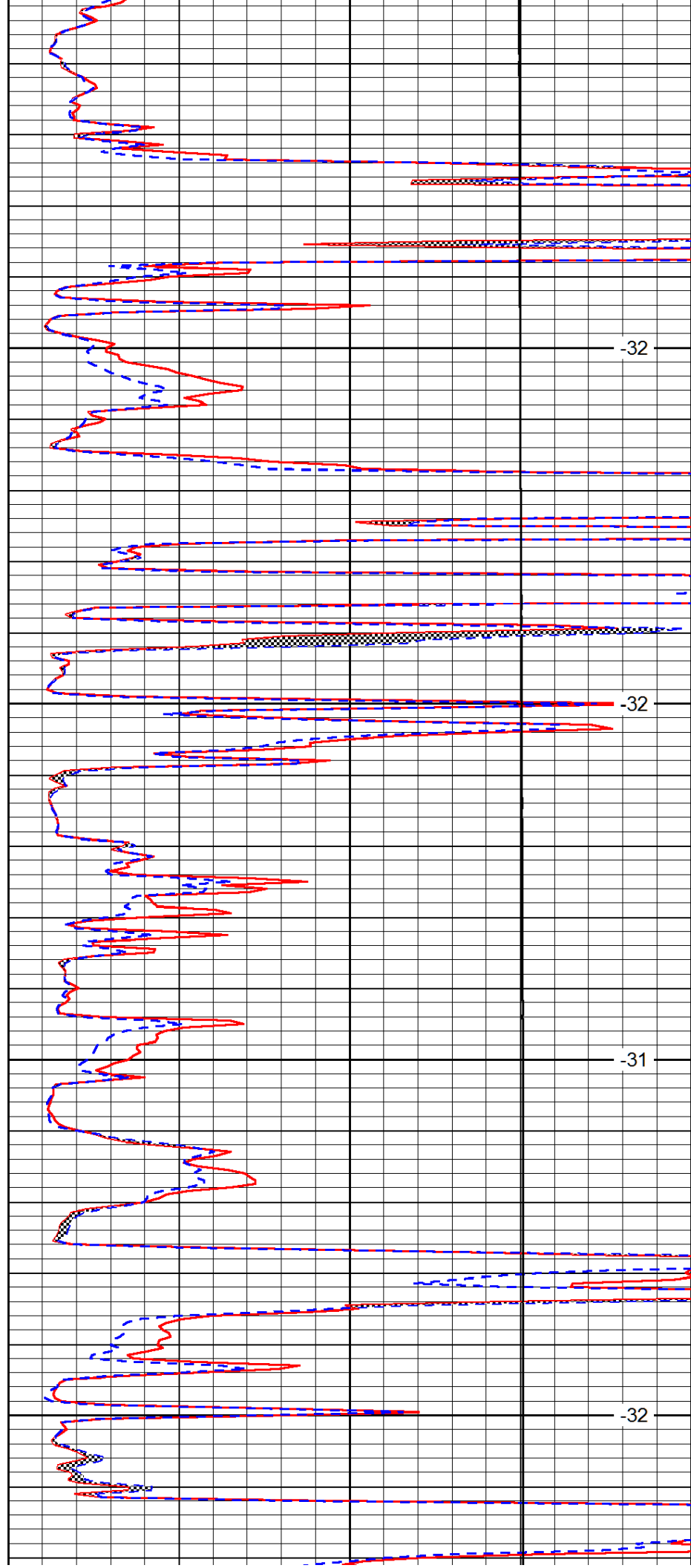


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4450

4500

4550

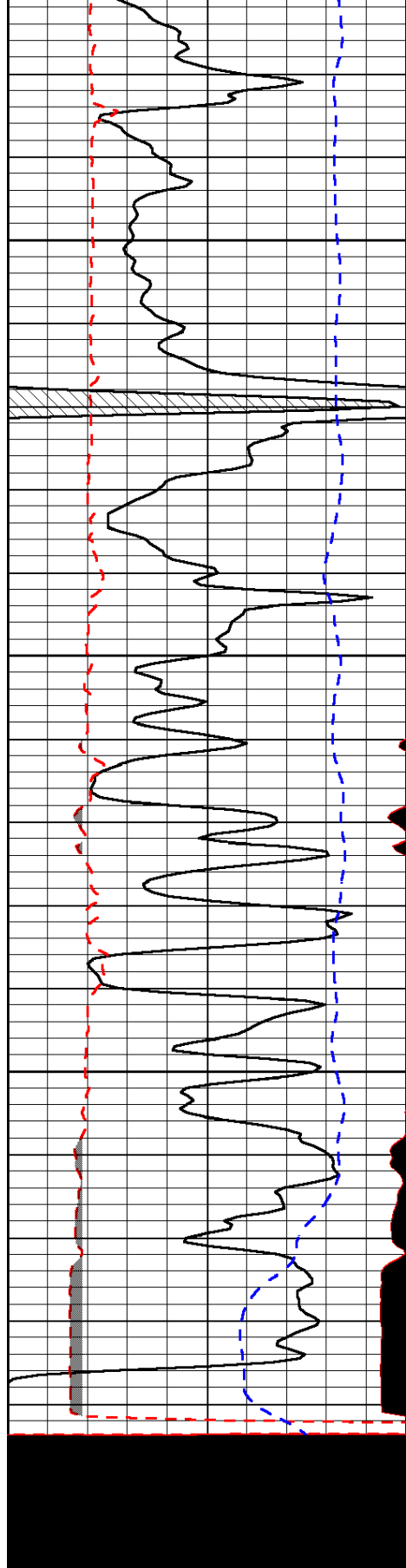


-32

-32

-31

-32



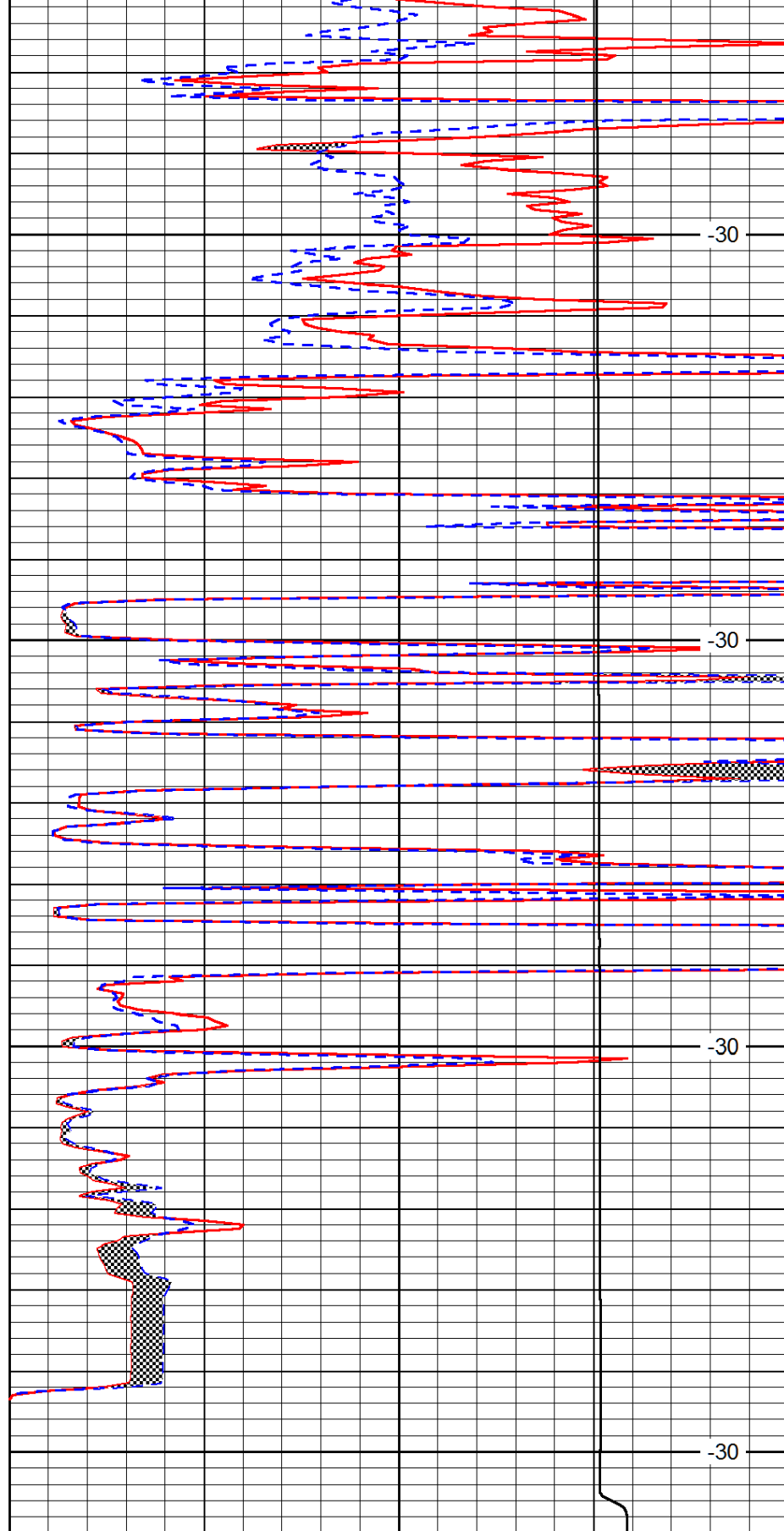
0	Gamma Ray	150
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4600

4650

4700

4750



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LSPD