



Pioneer Energy Services

Dual Induction Log

API No.

15-165-22068-00-00

Company Murfin Drilling Company, Inc.

Well Oelkers 'B' #1-2

Field Wildcat

County

Rush

State

Kansas

Location

1320' FSL & 2310' FWL

Other Services
CNL/CDL
MEL/BHCS

Sec: 2

Twp: 16S

Rge: 19W

Elevation

Permanent Datum Ground Level Elevation 2030
Log Measured From Kelly Bushing 5 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

K.B. 2035
D.F.
G.L. 2030

Date

5/10/2014

Run Number

One

Depth Driller

3688

Depth Logger

3689

Bottom Logged Interval

3688

Top Log Interval

0

Casing Driller

8.625 @ 1230

Casing Logger

1227

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

7000

Density / Viscosity

9.3

56

pH / Fluid Loss

9.5

10.4

Source of Sample

Flowline

Rm @ Meas. Temp

0.30 @ 78

Rmf @ Meas. Temp

0.23 @ 78

Rmc @ Meas. Temp

0.41 @ 78

Source of Rmf / Rmc

Charts

Rm @ BHT

0.20 @ 115

Operating Rig Time

5 Hours

Max Rec. Temp. F

115

Equipment Number

91

Location

Hays

Recorded By

D. Schmidt

Witnessed By

Andy White

<<< 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

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(785) 625-3858

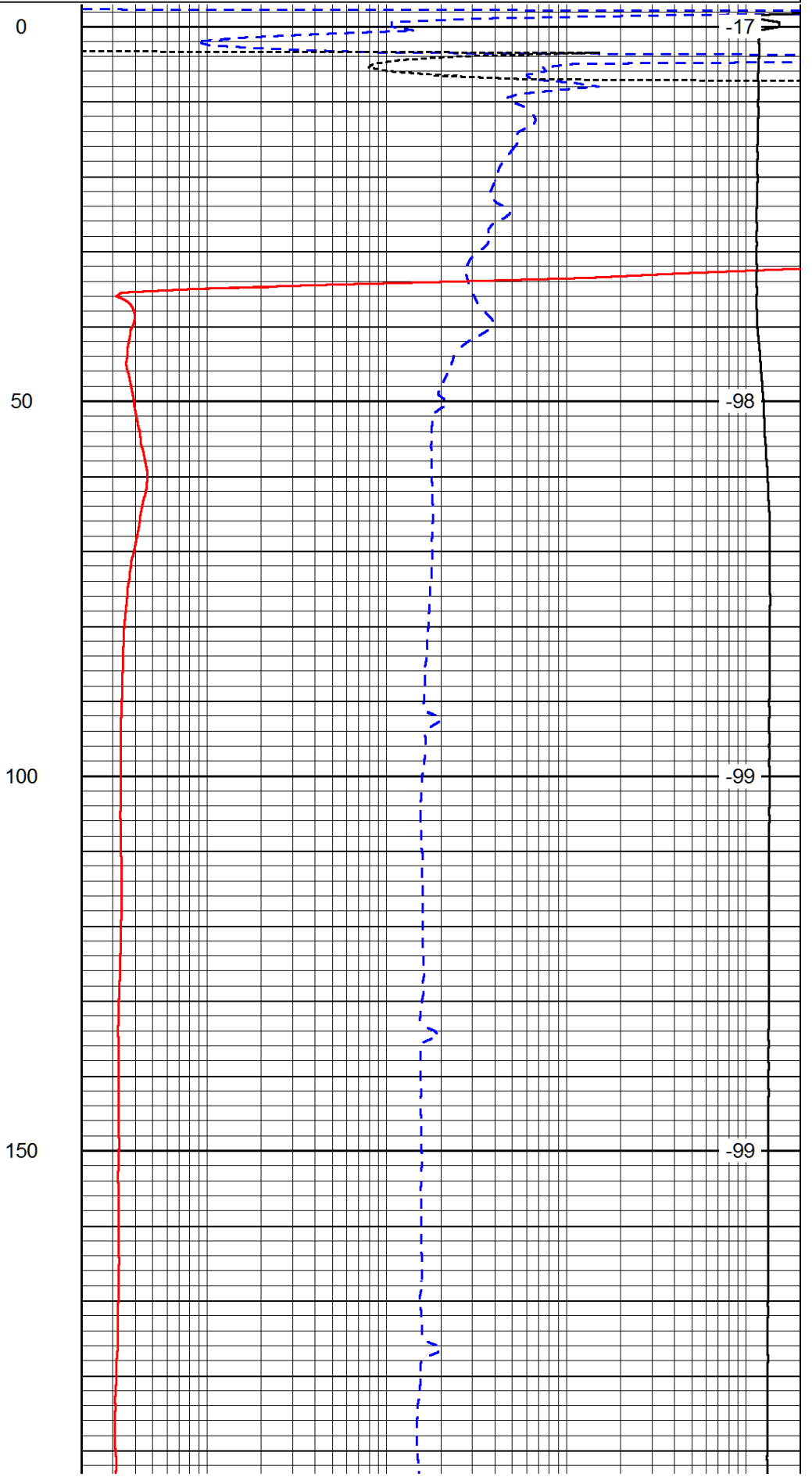
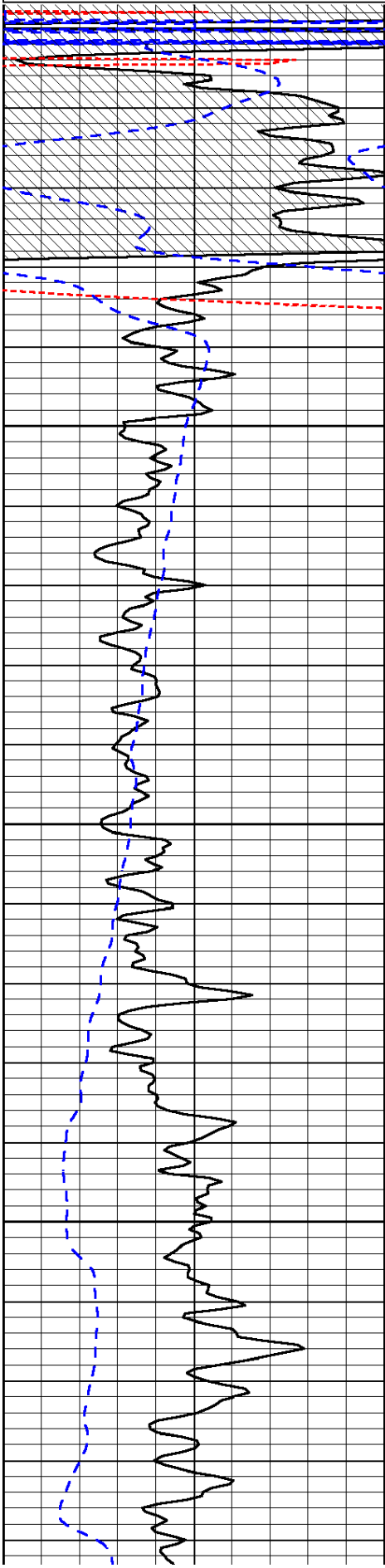
Liebenthal,
North to B Rd, 4 West,
North into 100 yards West of TB

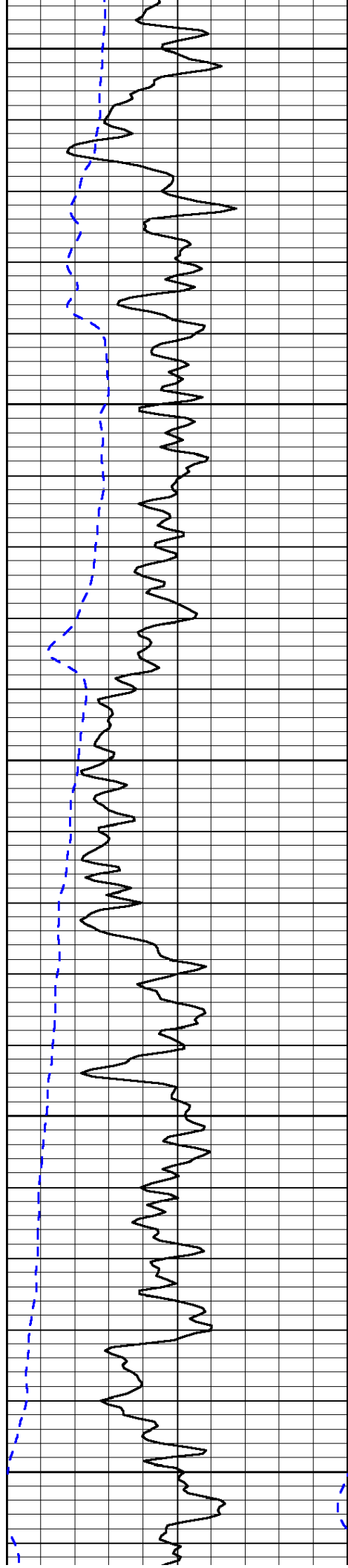
Database File: murfin_091014hd.db
Dataset Pathname: dil/mrfstck
Presentation Format: dil
Dataset Creation: Sat May 10 15:20:38 2014
Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150
-160	RXO/RT	40
-200	SP (mV)	0

0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
10000	Line Tension	0

LSPD





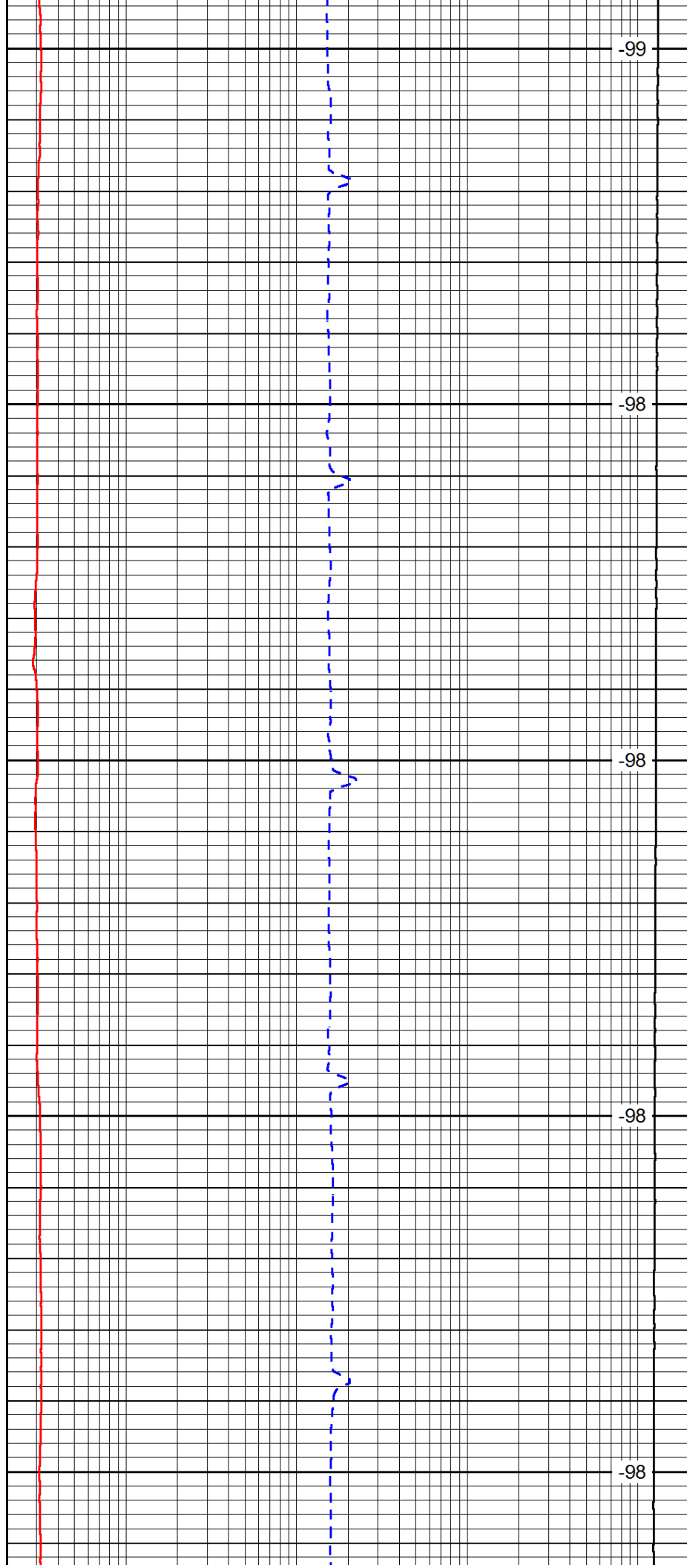
200

250

300

350

400



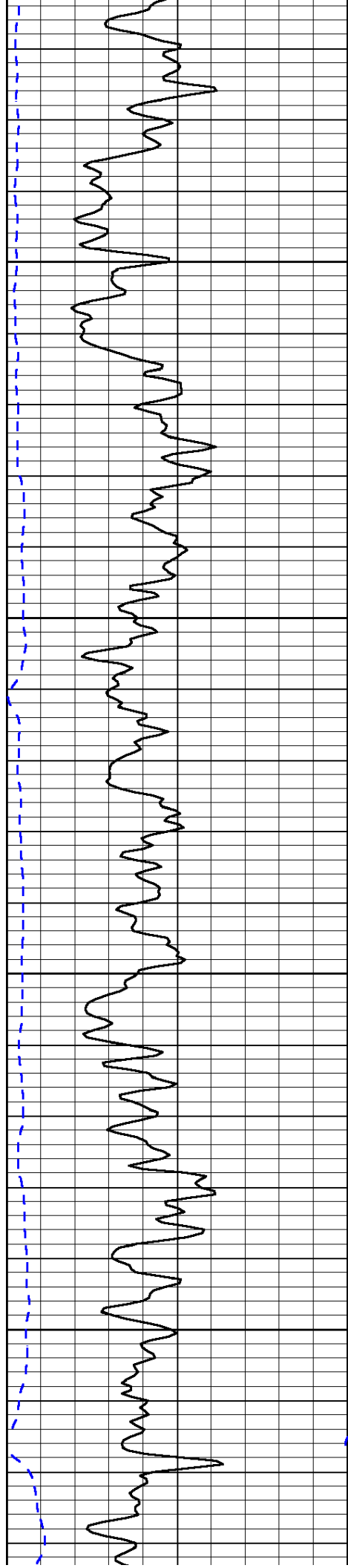
-99

-98

-98

-98

-98

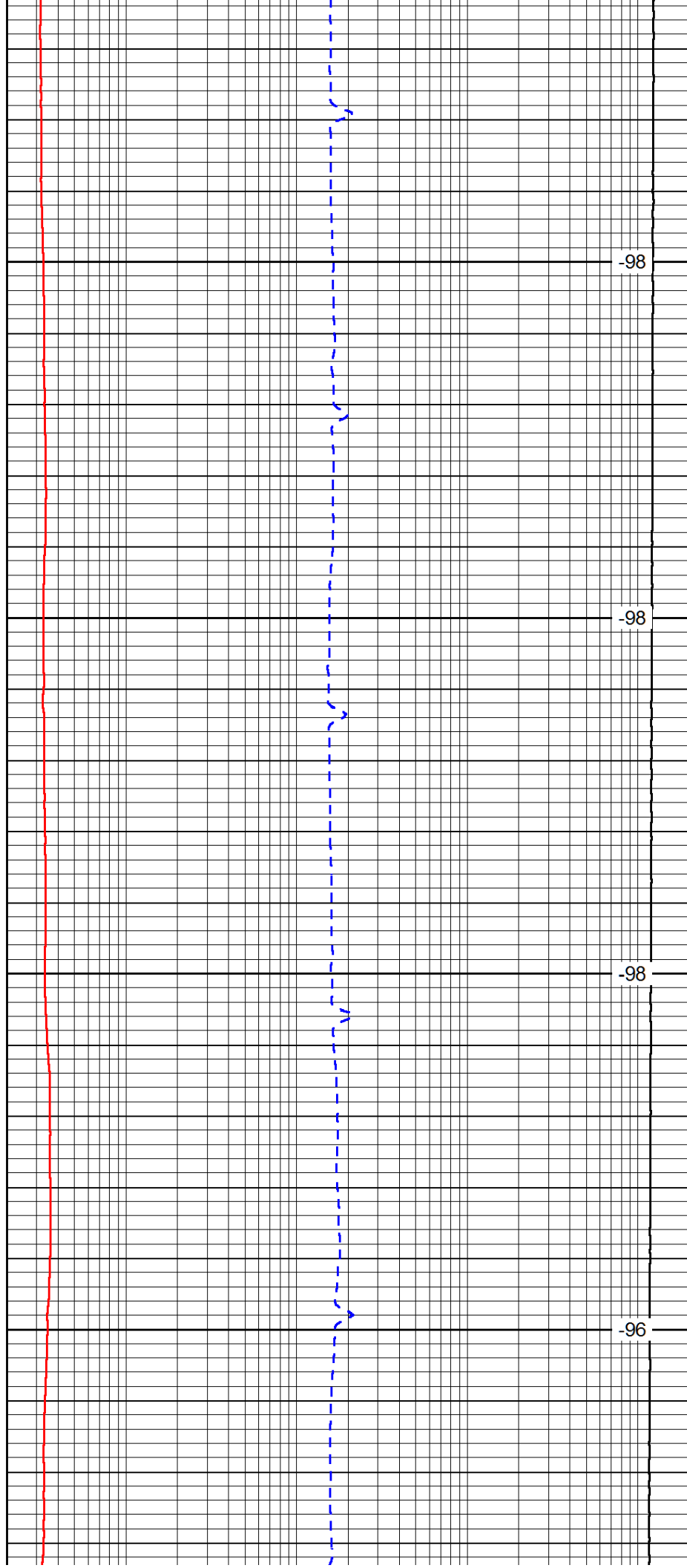


450

500

550

600

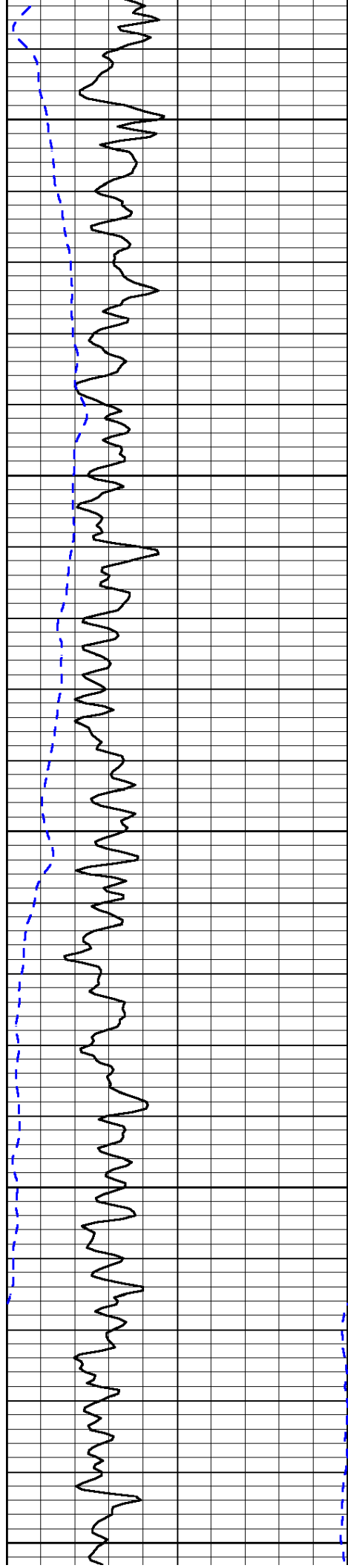


-98

-98

-98

-96



650

700

750

800

850

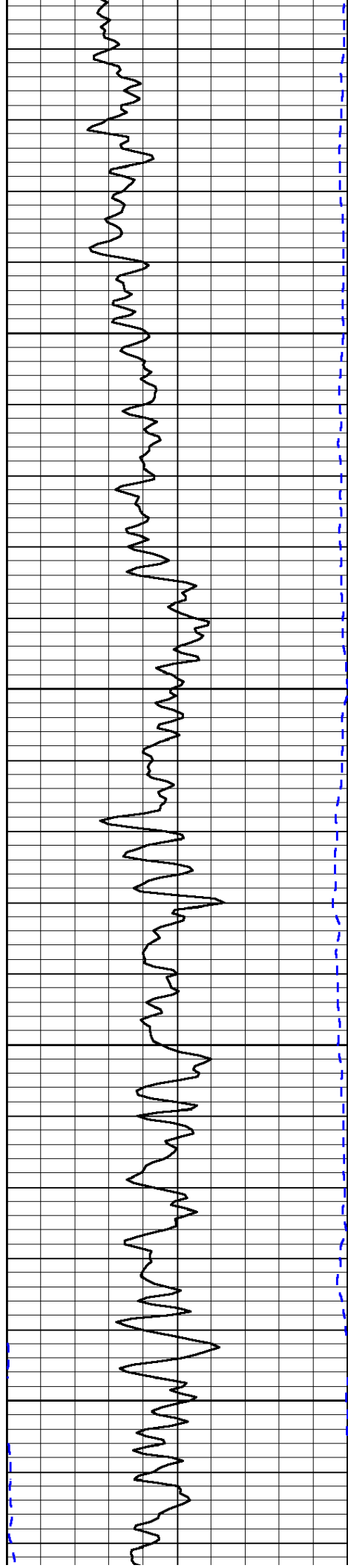
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-94

-94

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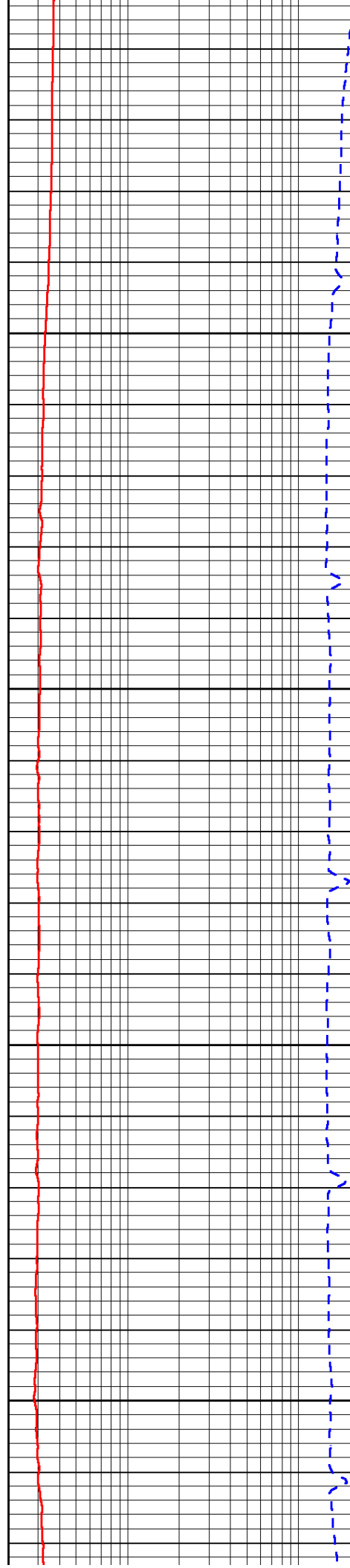


900

950

1000

1050

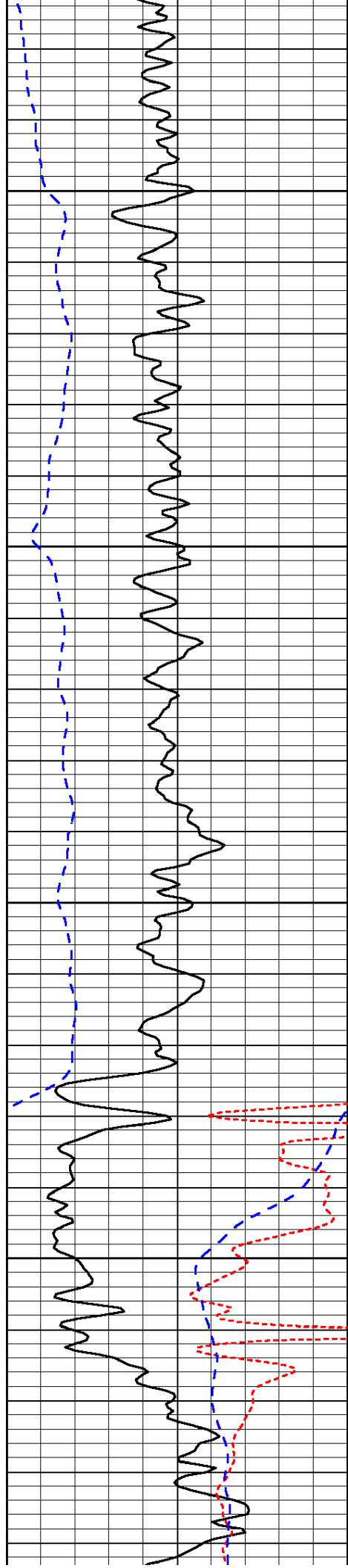


-94

-93

-89

-89

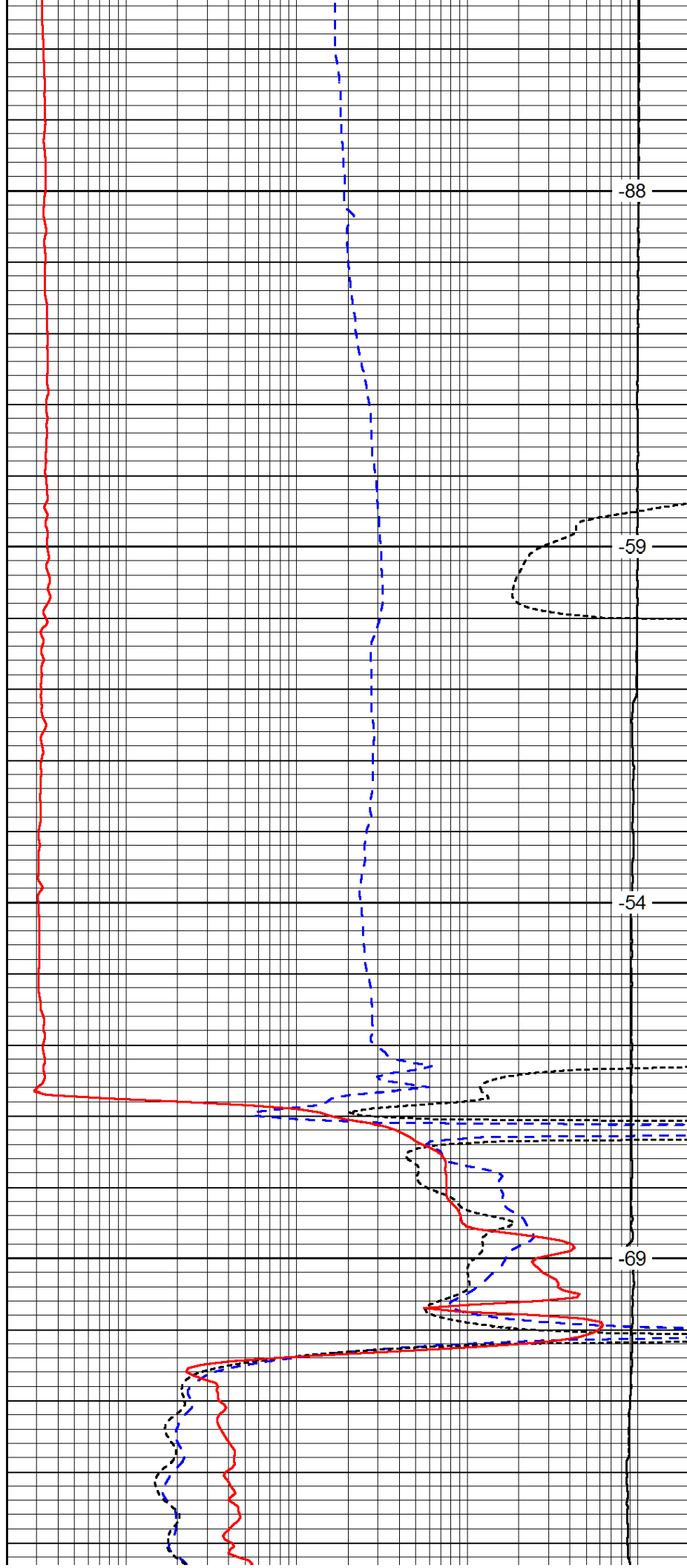


1100

1150

1200

1250

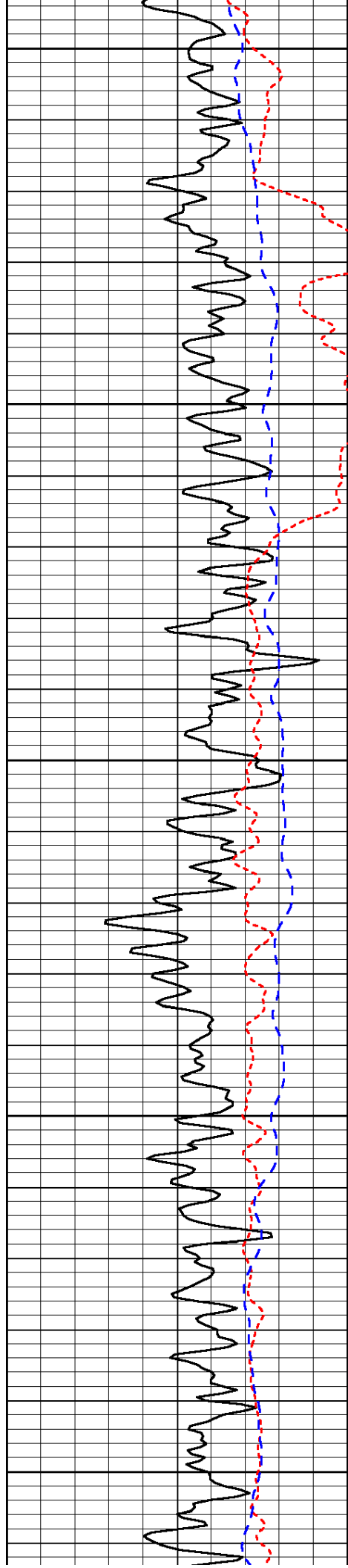


-88

-59

-54

-69



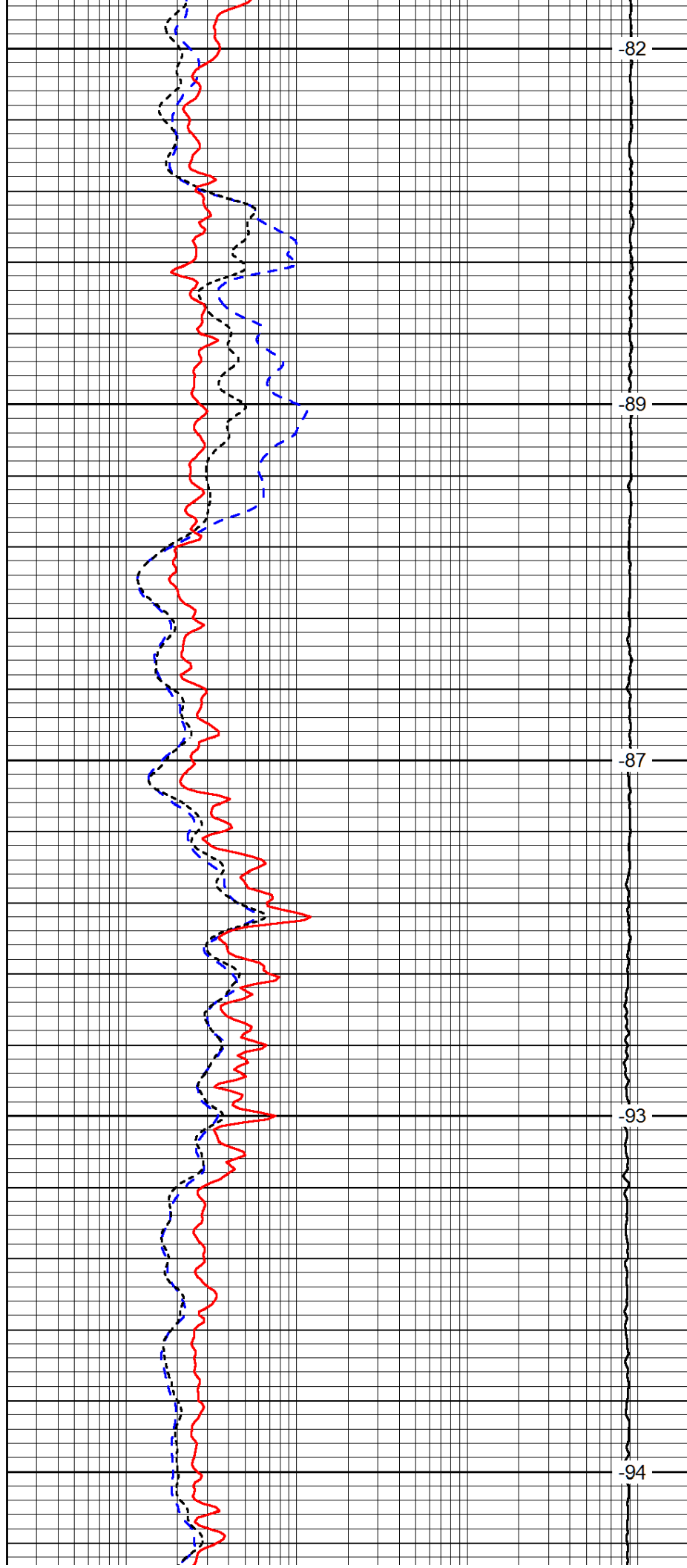
1300

1350

1400

1450

1500



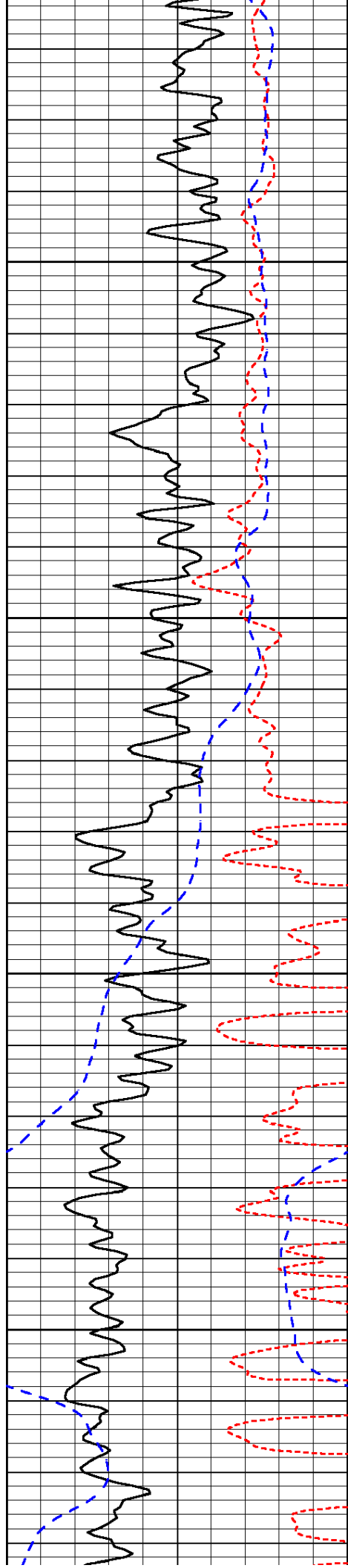
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-89

-87

-93

-94

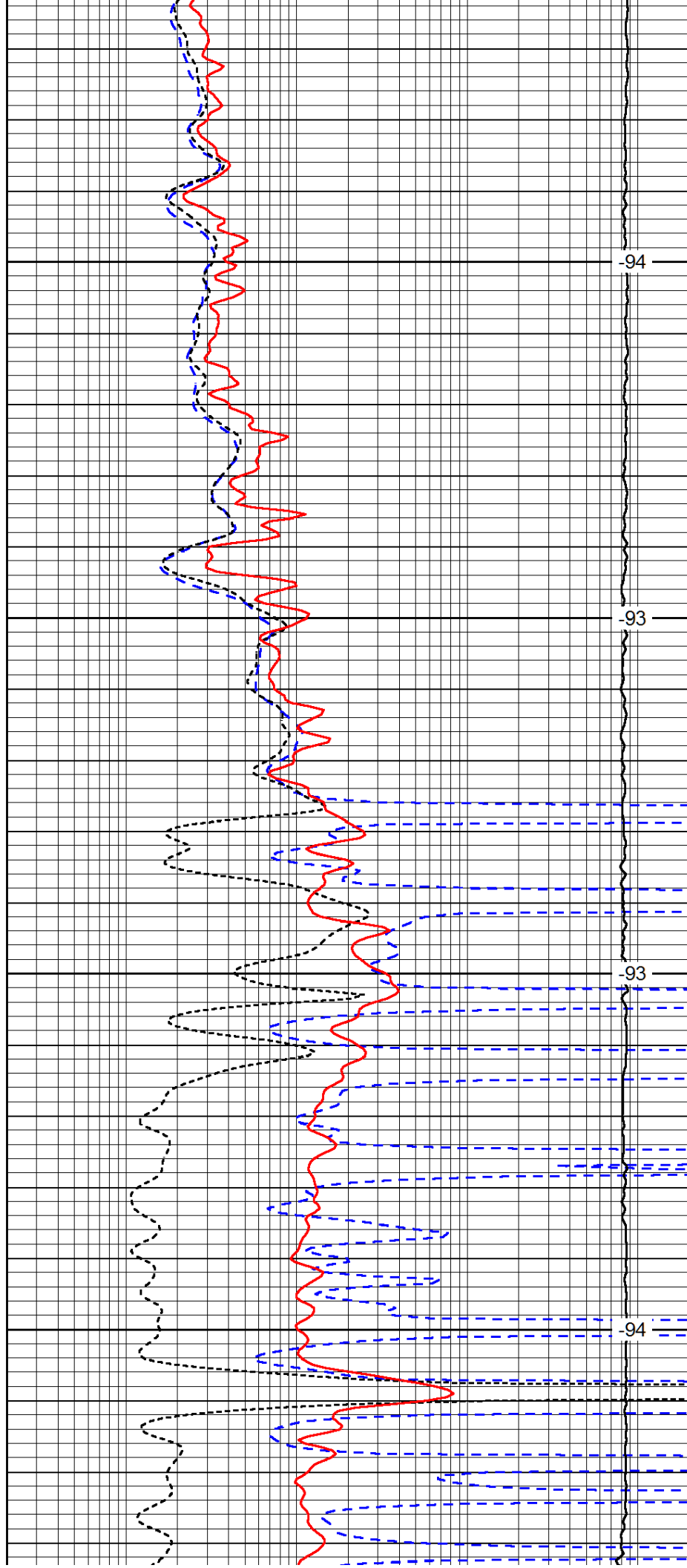


1550

1600

1650

1700

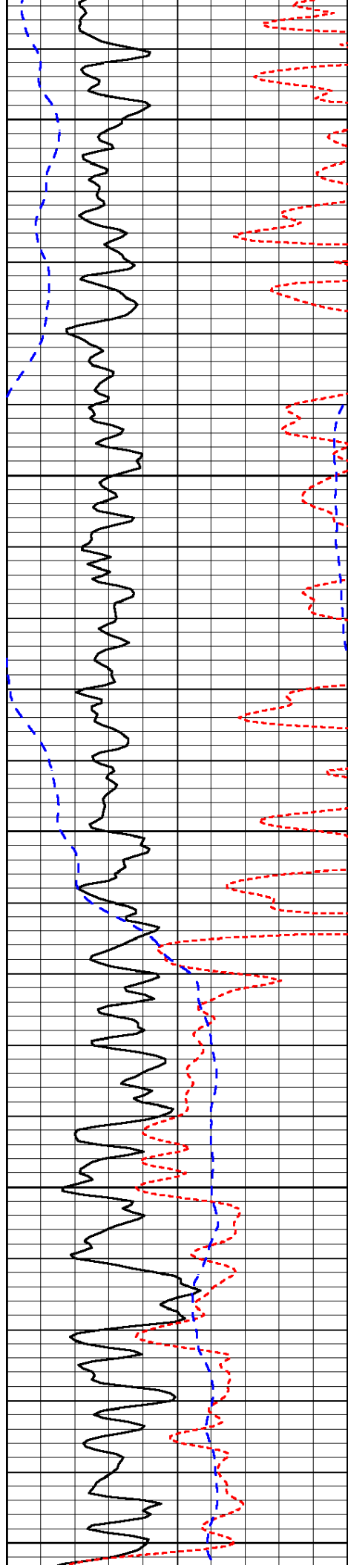


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-93

-93

-94



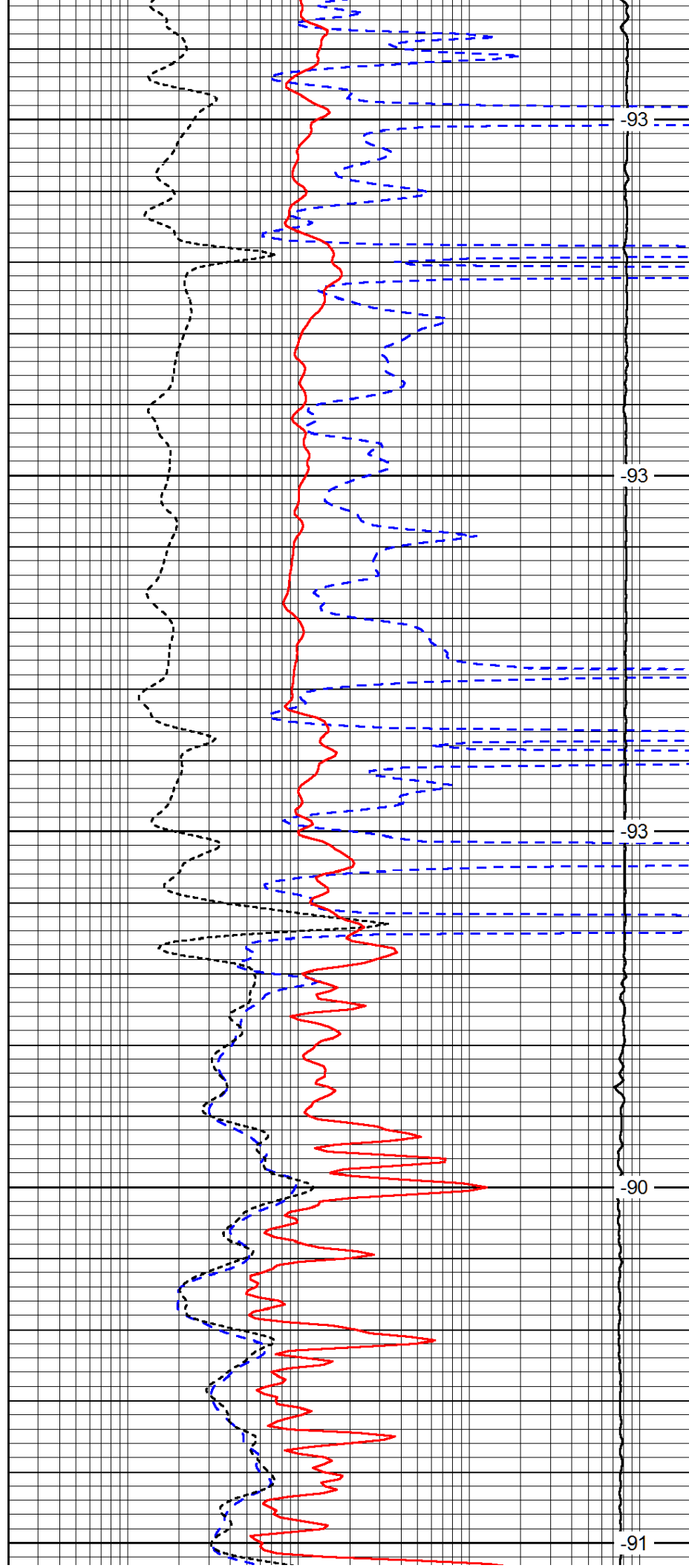
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1800

1850

1900

1950



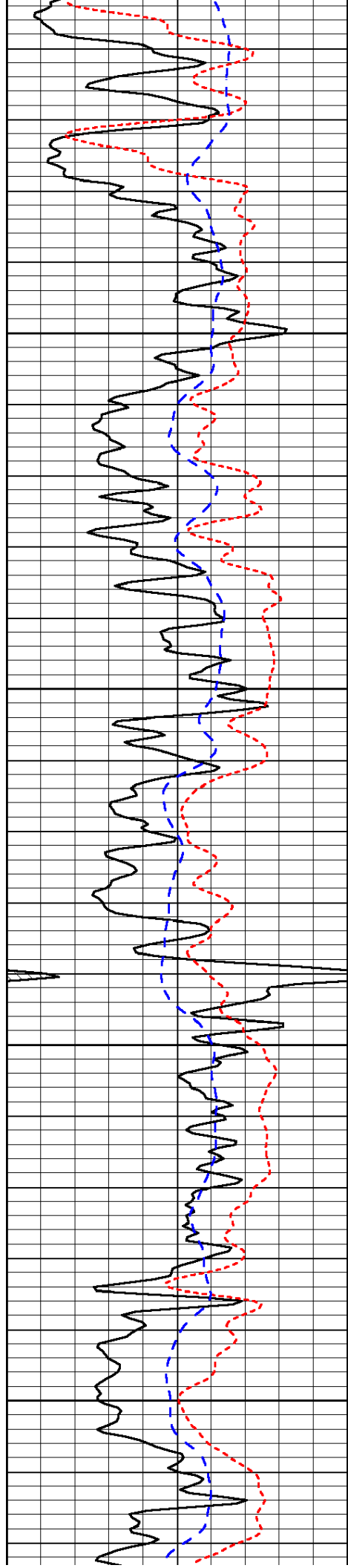
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-90

-91

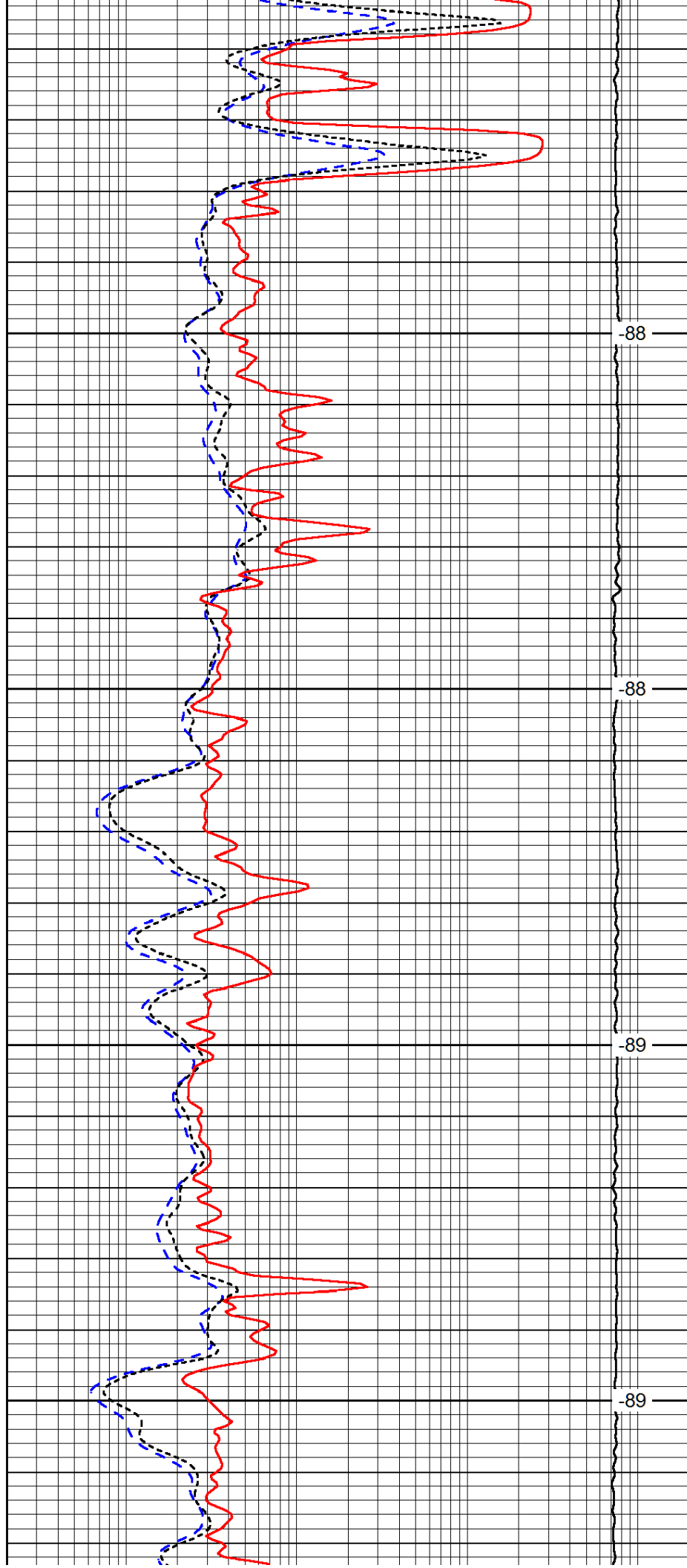


2000

2050

2100

2150

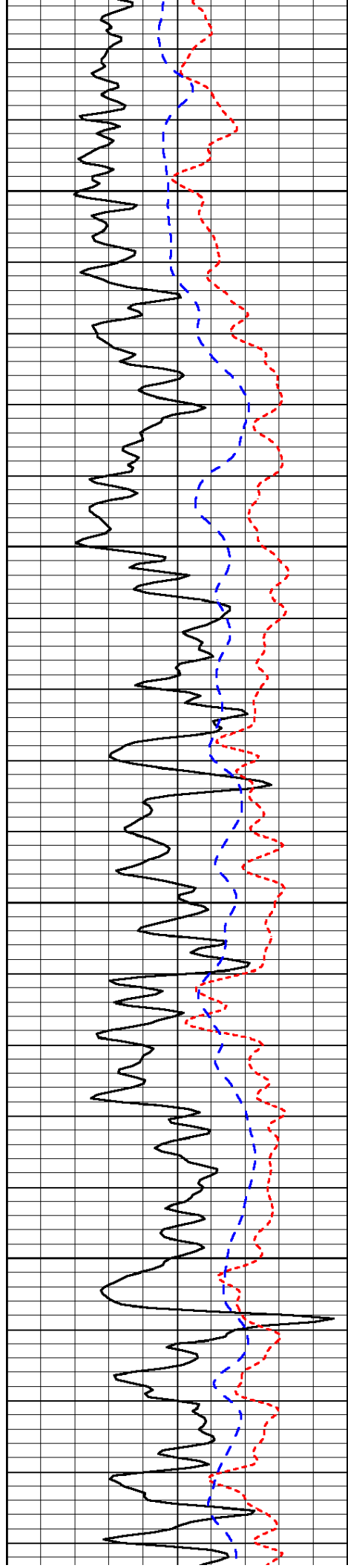


-88

-88

-89

-89

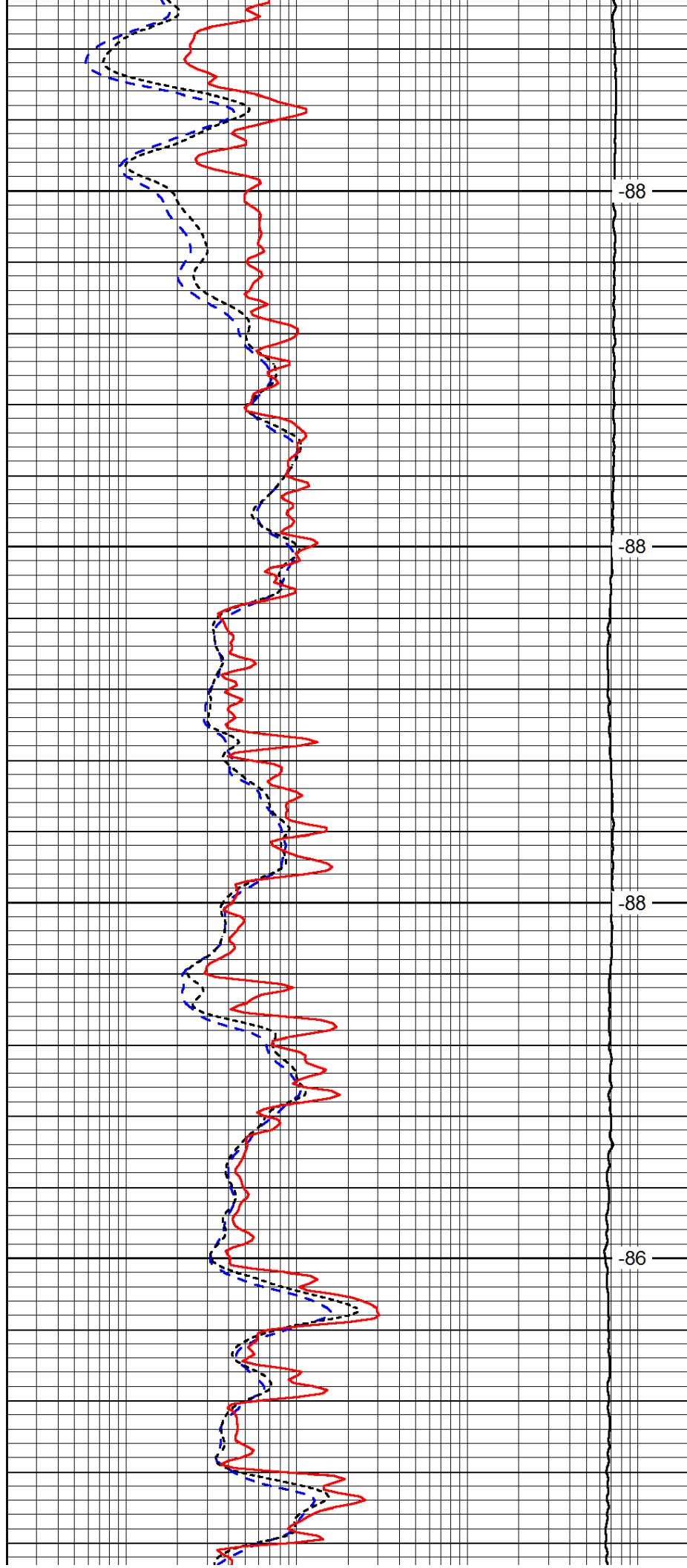


2200

2250

2300

2350

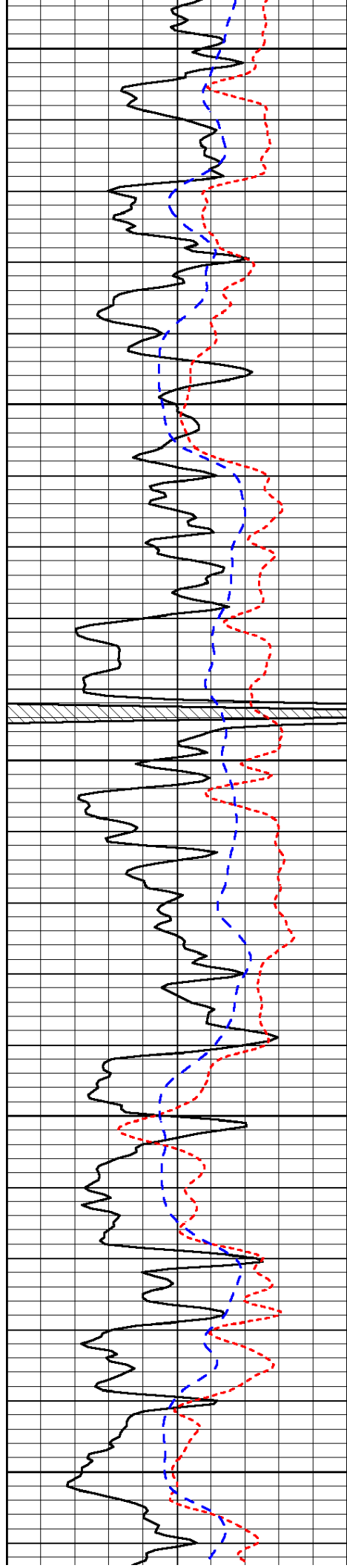


-88

-88

-88

-86



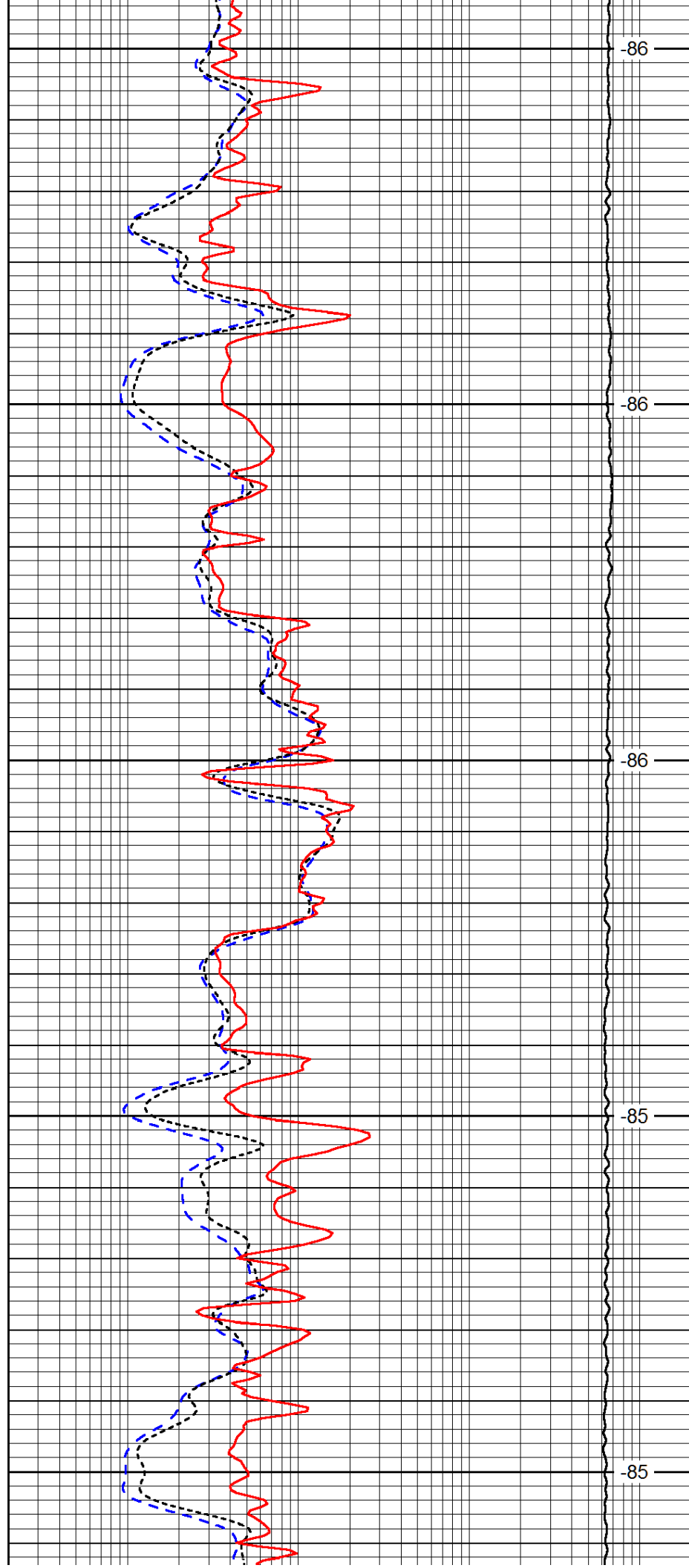
2400

2450

2500

2550

2600



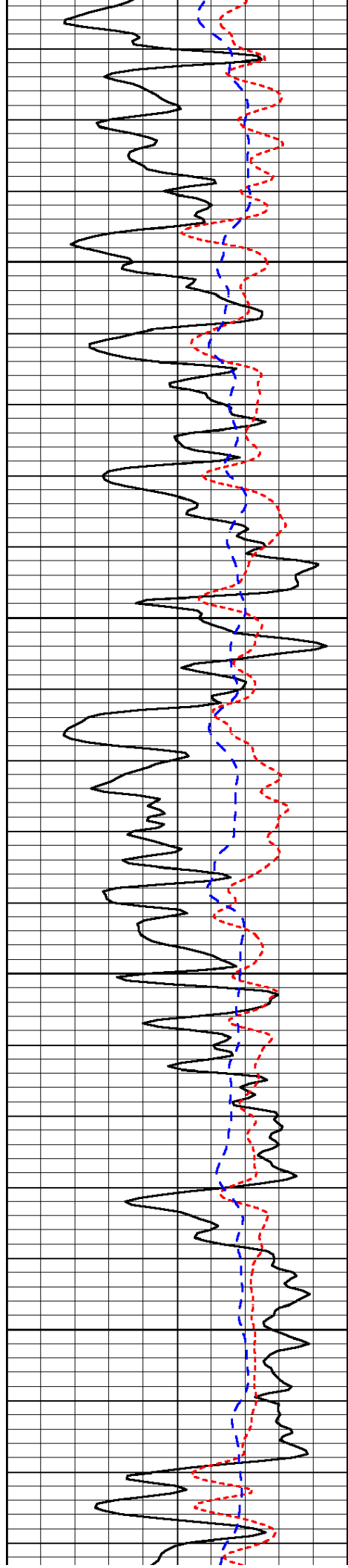
-86

-86

-86

-85

-85

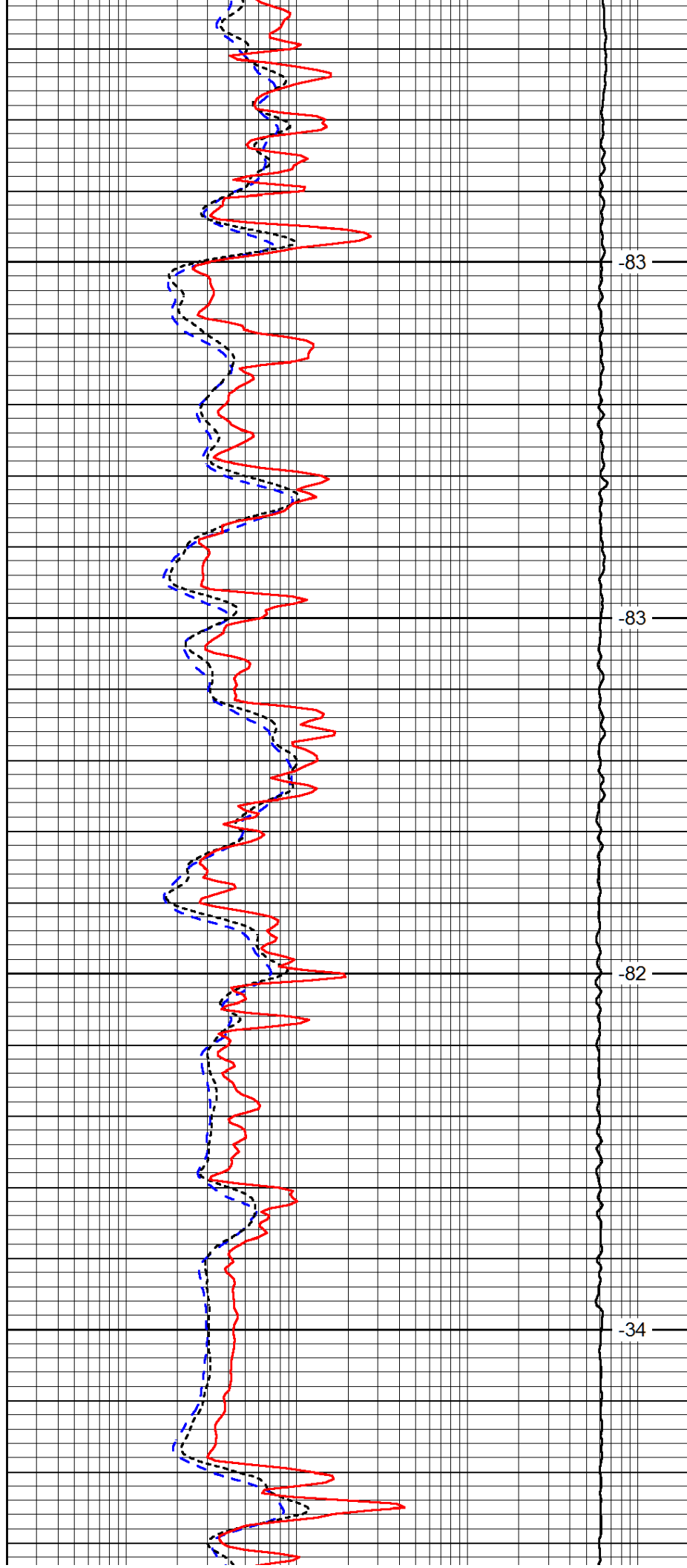


2650

2700

2750

2800

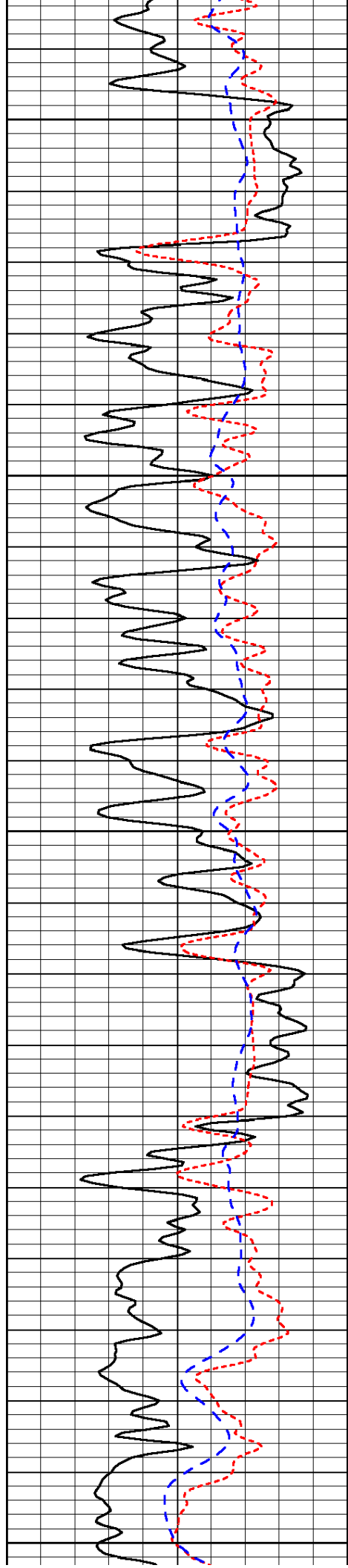


-83

-83

-82

-34



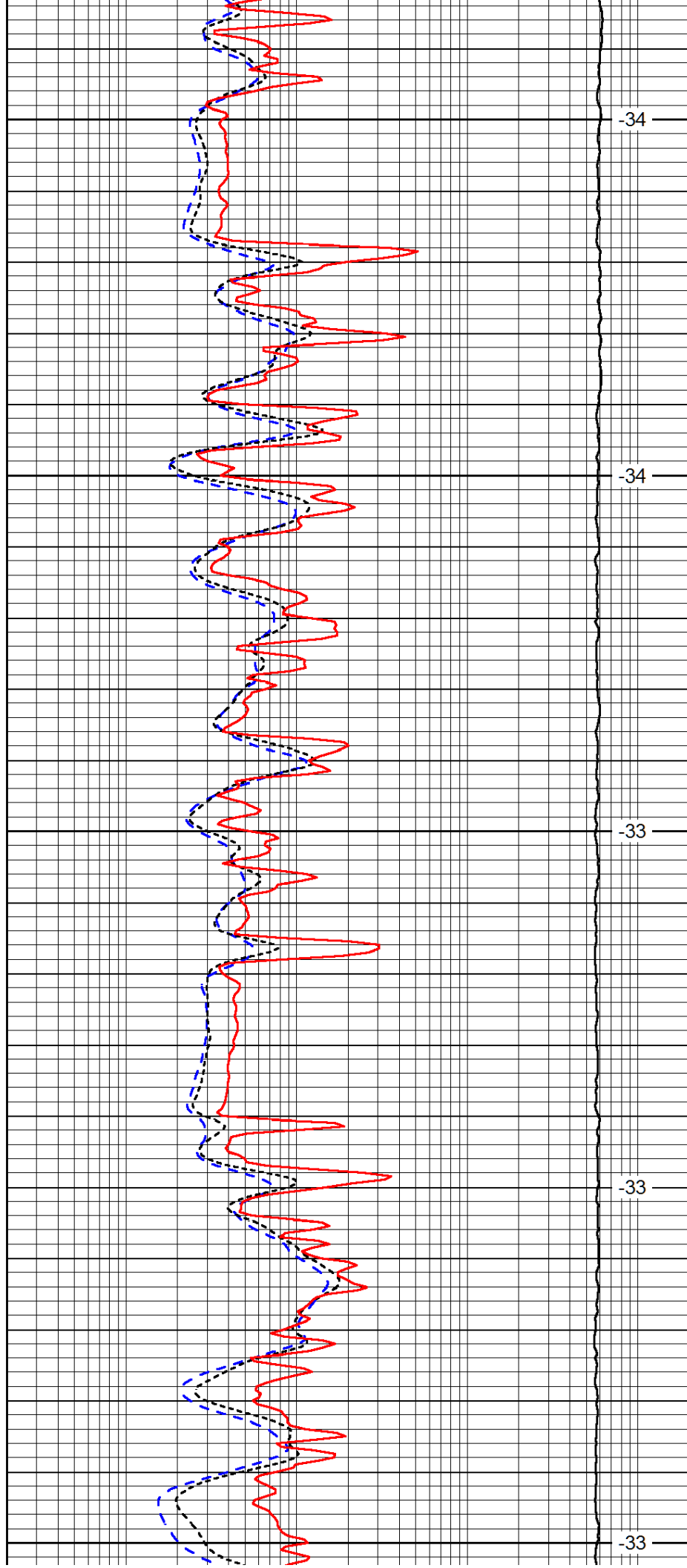
2850

2900

2950

3000

3050



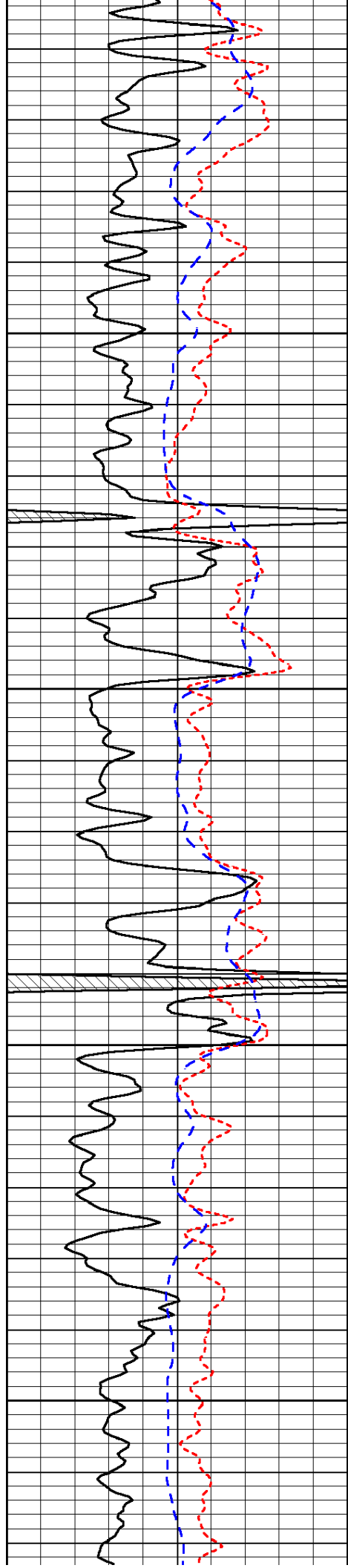
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-34

-33

-33

-33

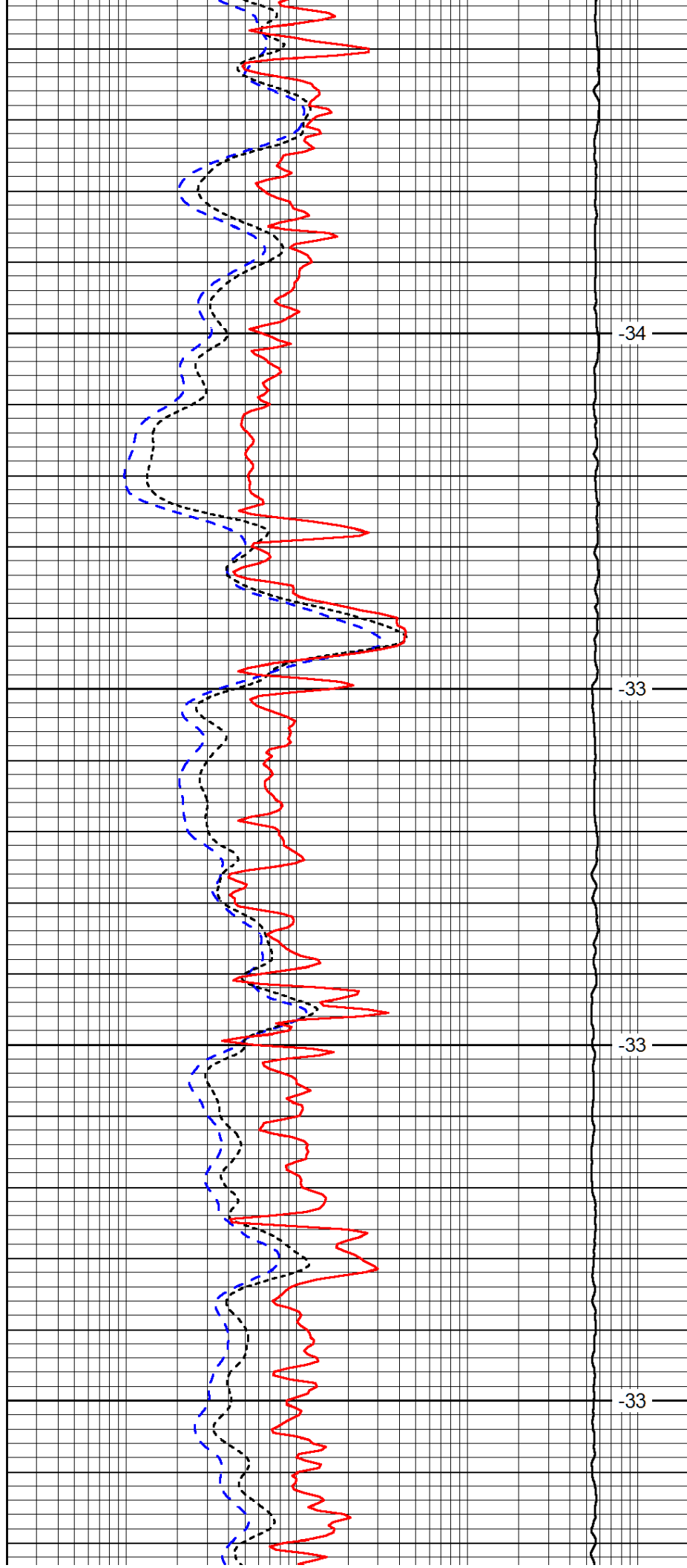


3100

3150

3200

3250

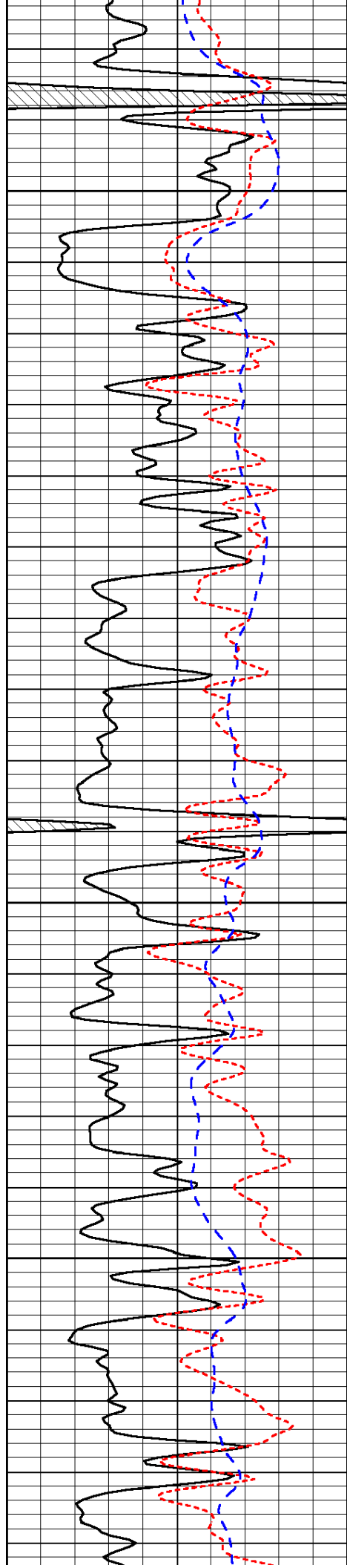


-34

-33

-33

-33

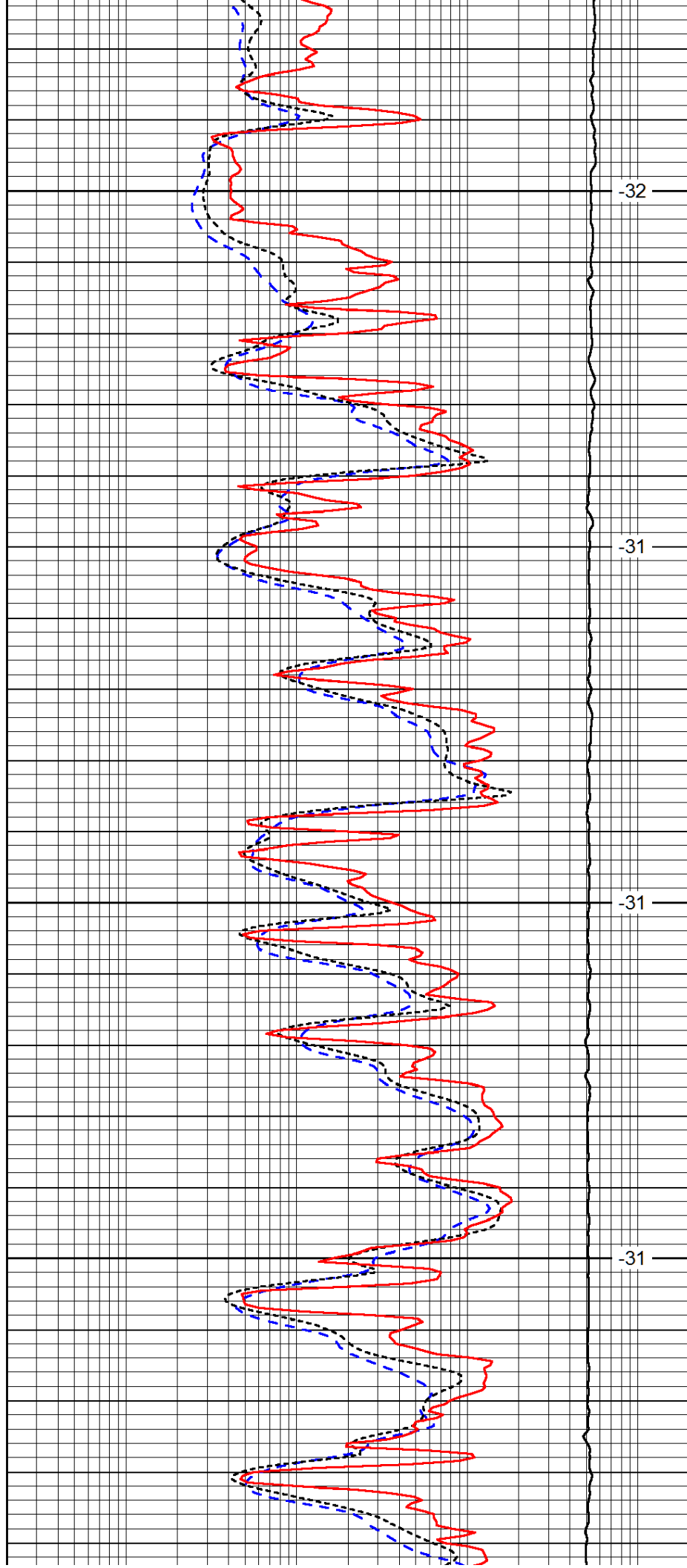


3300

3350

3400

3450

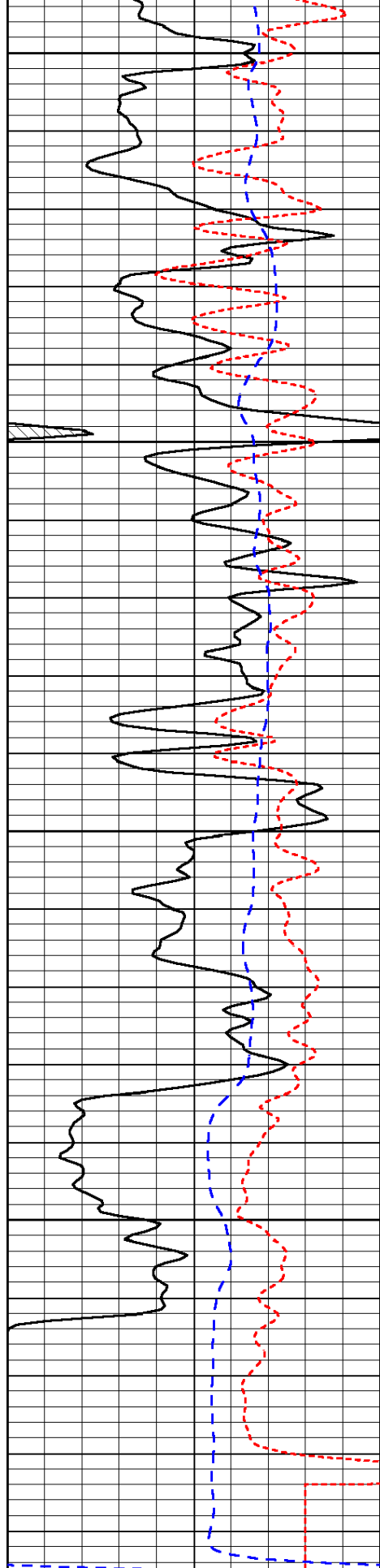


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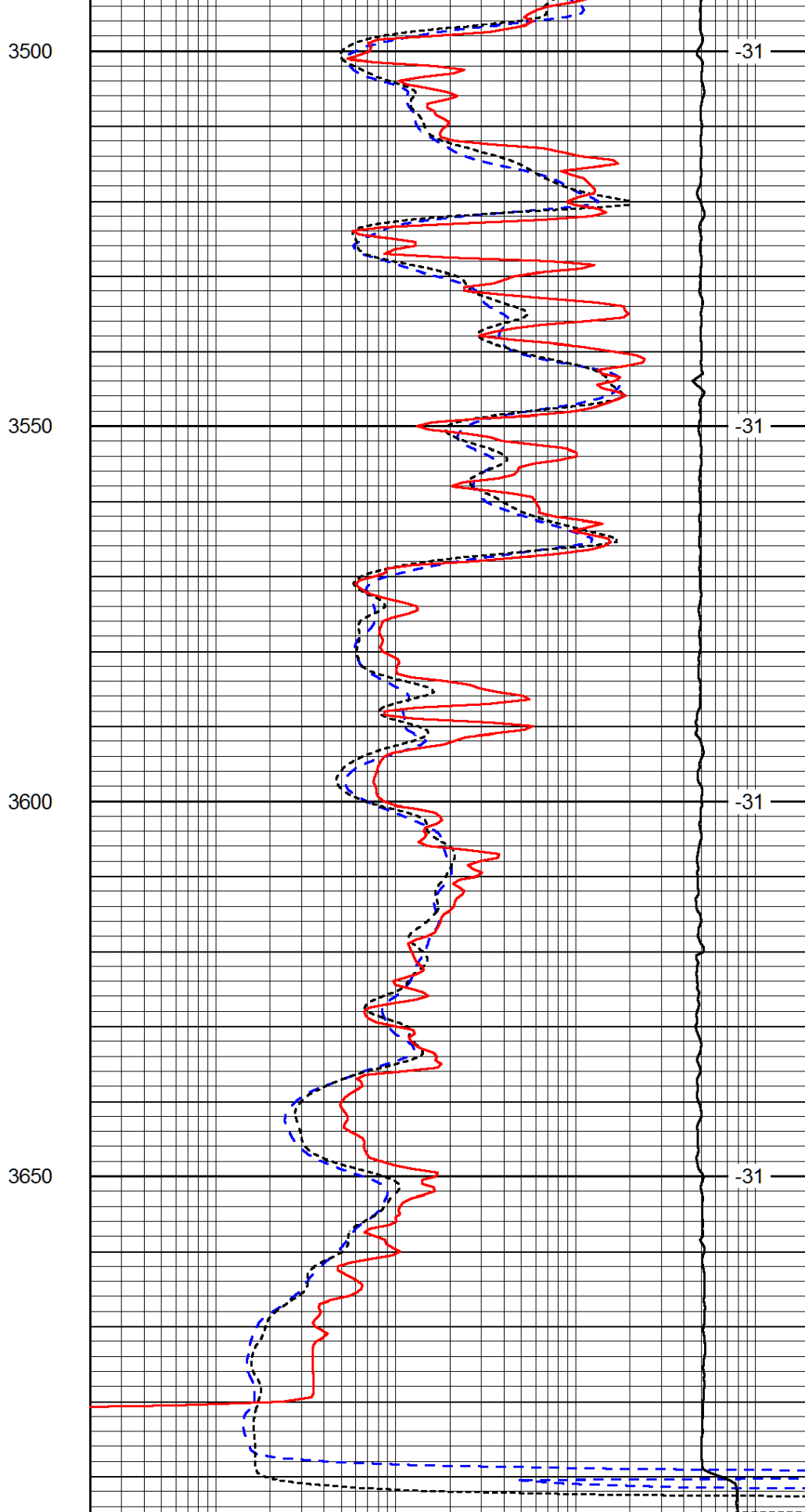
-31

-31

-31



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