

LOG-TECH



Dual Induction Log

DIGITAL LOG

(785) 625-3858

API No.

15-195-22,628-00-00

Company Murfin Drilling Company, Inc.

Well PNK #1-9

Field Vopeak

County Trego

State

Kansas

Location

SW NE NW SW
2080' FSL & 870' FWL

Sec: 9

Twp: 12S

Rge: 21W

Other Services
CNL / CDL
MEL / BHCS

Permanent Datum

Ground Level

Elevation 2322

Log Measured From

Kelly Bushing

5 Ft. Above Perm. Datum

K.B. 2327
D.F.
G.L. 2322

Date

9/25/2009

Run Number

One

Depth Driller

4110

Depth Logger

4113

Bottom Logged Interval

4112

Top Log Interval

00

Casing Driller

8.625 @ 210

Casing Logger

208

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

6,200

Density / Viscosity

9.1

47

pH / Fluid Loss

10.5

8.0

Source of Sample

Flowline

Rm @ Meas. Temp

1.1 @ 68

Rmf @ Meas. Temp

.83 @ 68

Rmc @ Meas. Temp

1.49 @ 68

Source of Rmf / Rmc

Charts

Rm @ BHT

.64 @ 117

Operating Rig Time

4 Hours

Max Rec. Temp. F

117

Equipment Number

17

Location

Hays

Recorded By

T. Martin

Witnessed By

Bob Petersen

<<< 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 Log-Tech, Inc.
(785) 625-3858

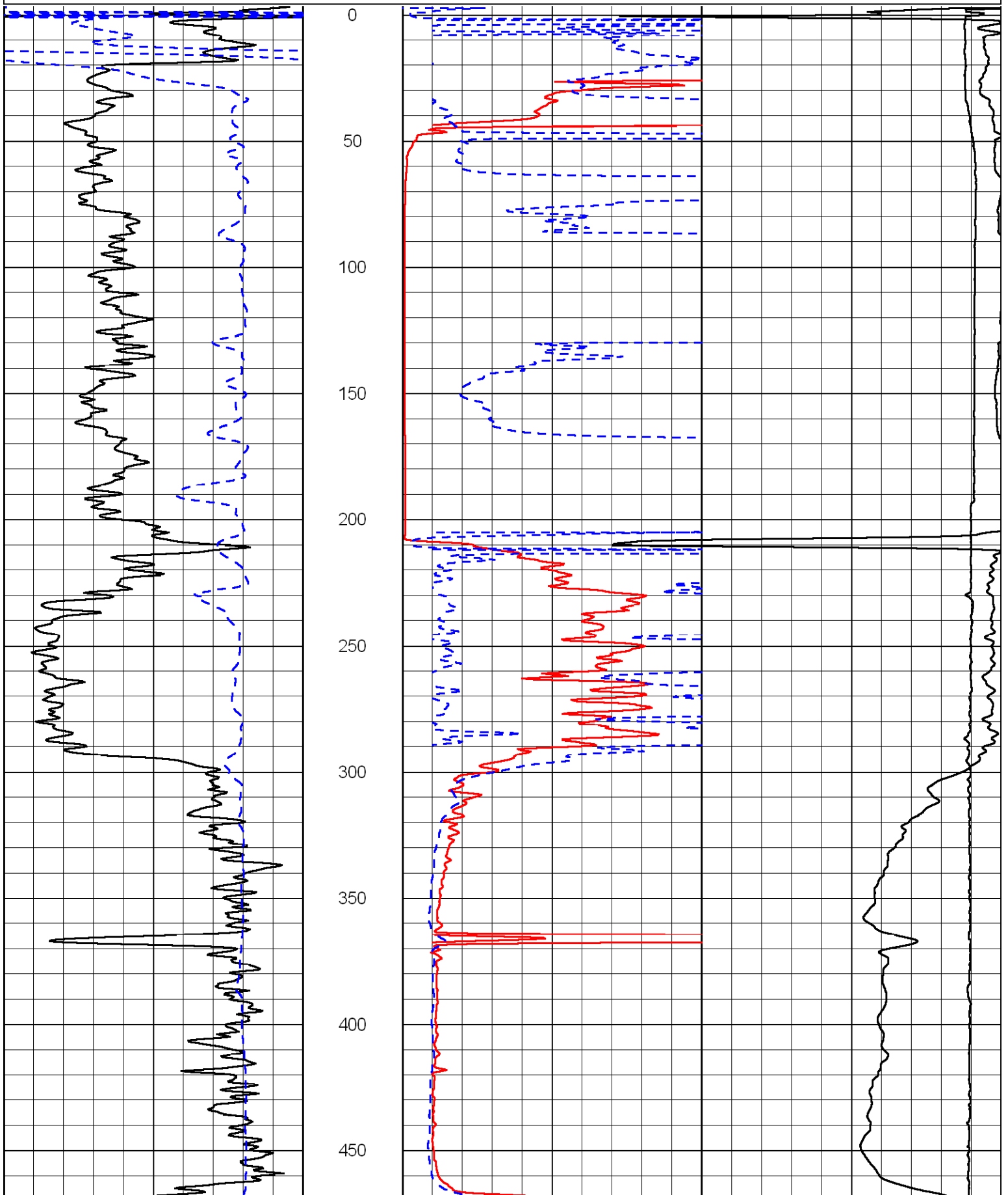
I-70 and Riga Rd, 2 N, 1 W, 1/2 N, E into

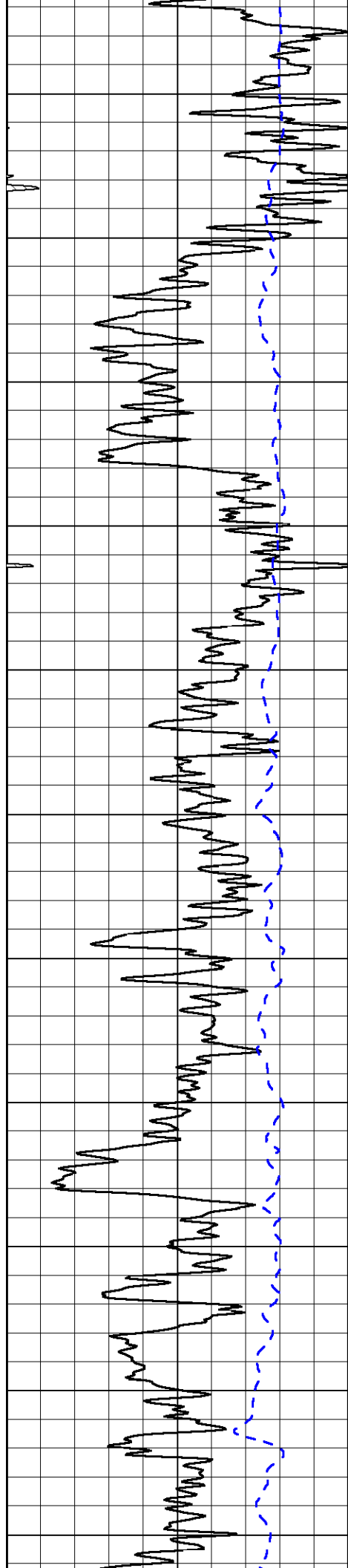
Database File: murfinhd.db
Dataset Pathname: dil/mfnstk
Presentation Format: dil2in
Dataset Creation: Fri Sep 25 04:29:53 2009
Charted by: Depth in Feet scaled 1:600

0	Gamma Ray	150
-200	SP	0

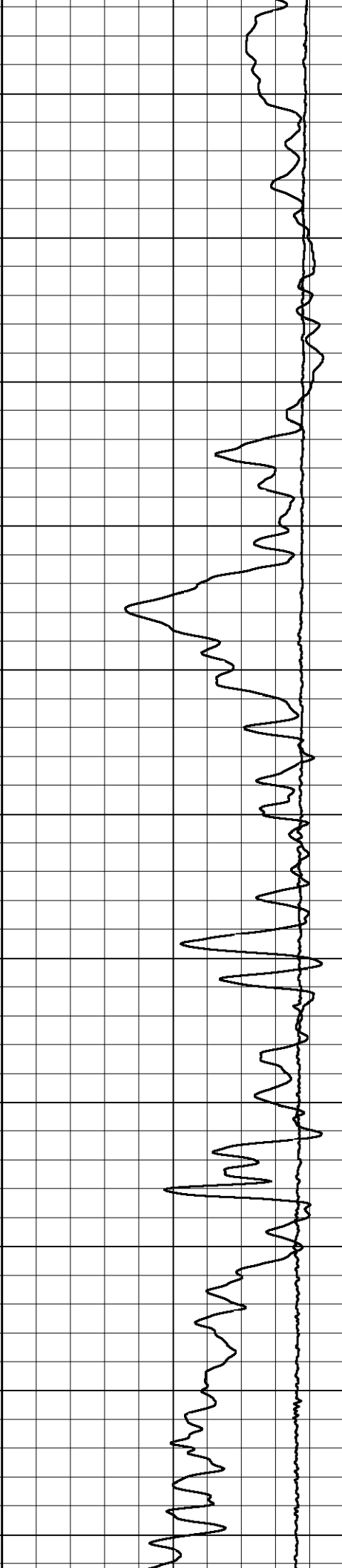
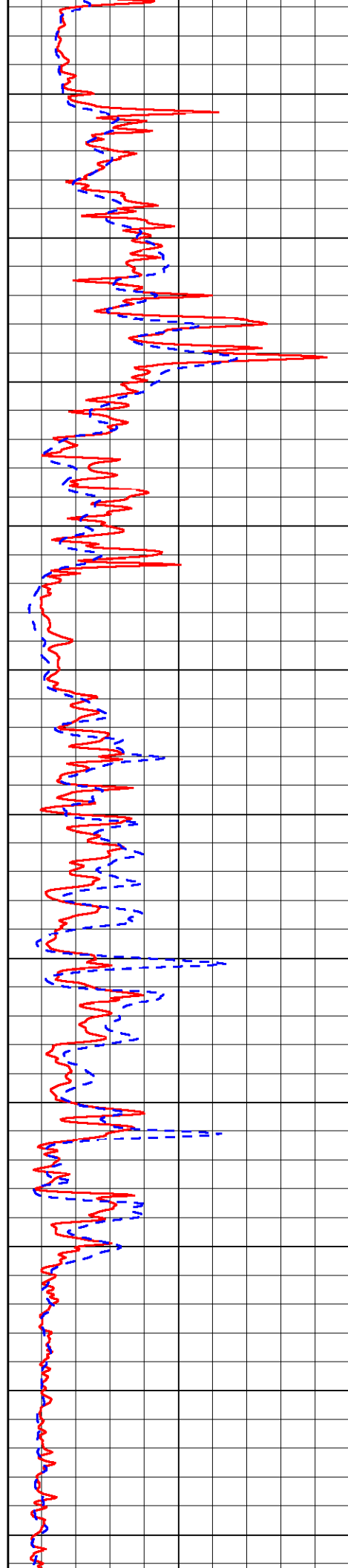
0	Shallow Resistivity	50
0	Deep Resistivity	50
1000	Conductivity (mmho-m)	0
15000	Line Tension	0

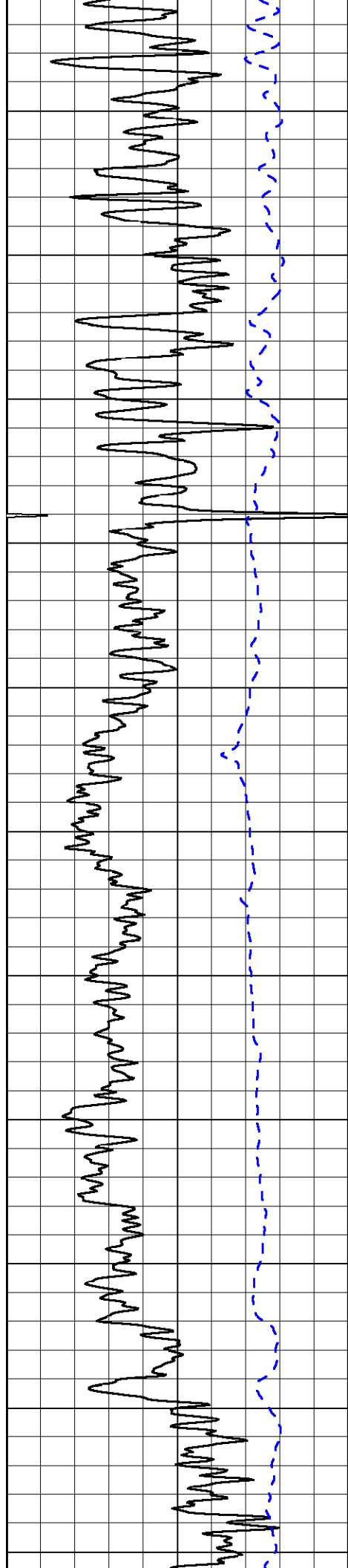
50	Shallow Resistivity	500
50	Deep Resistivity	500



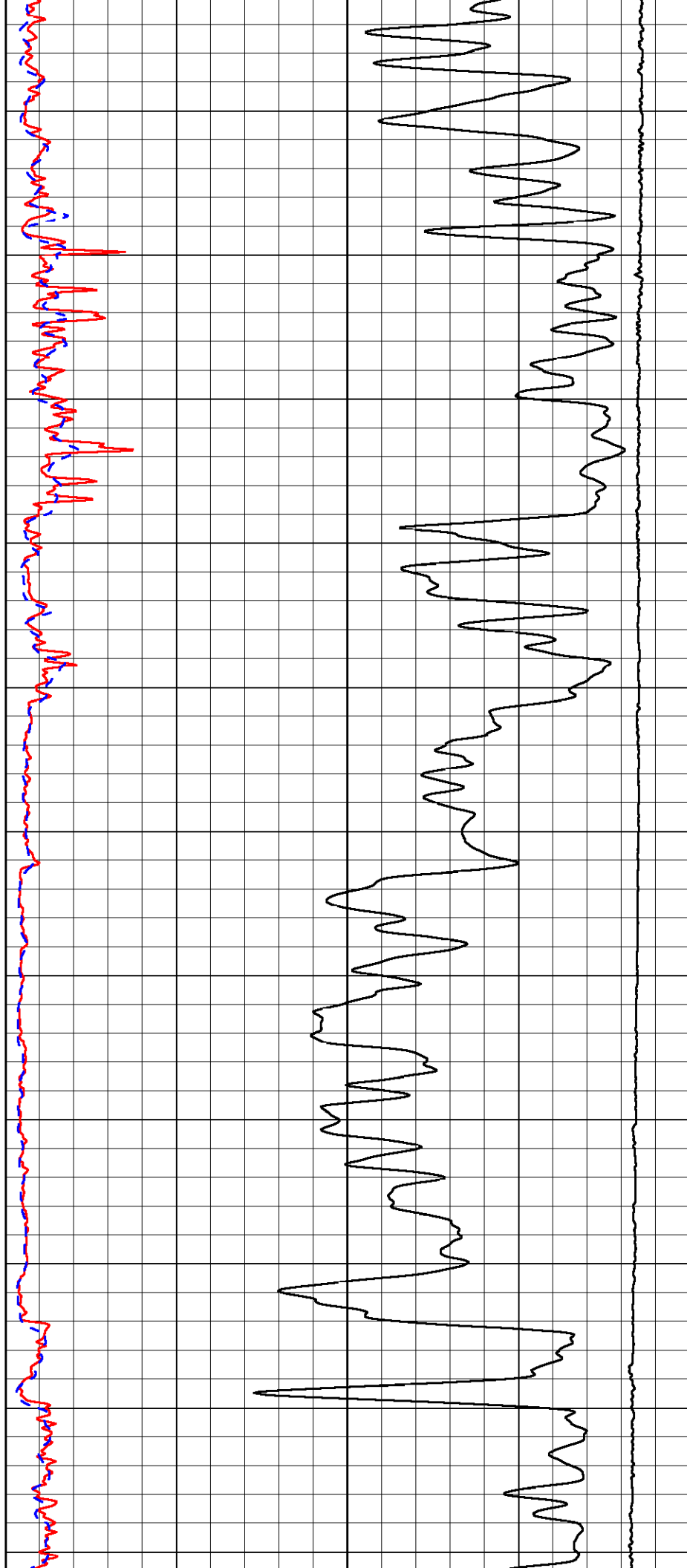


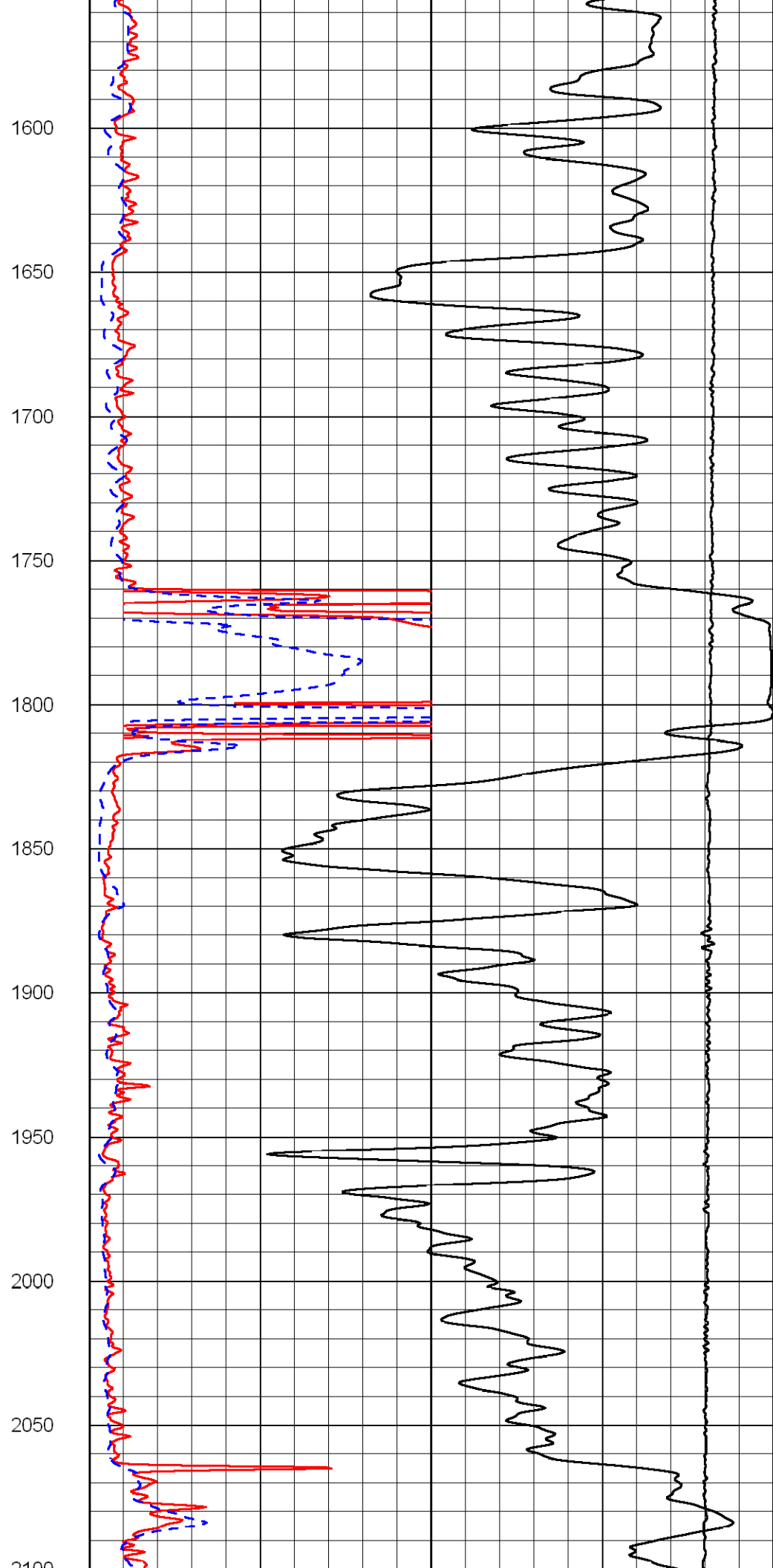
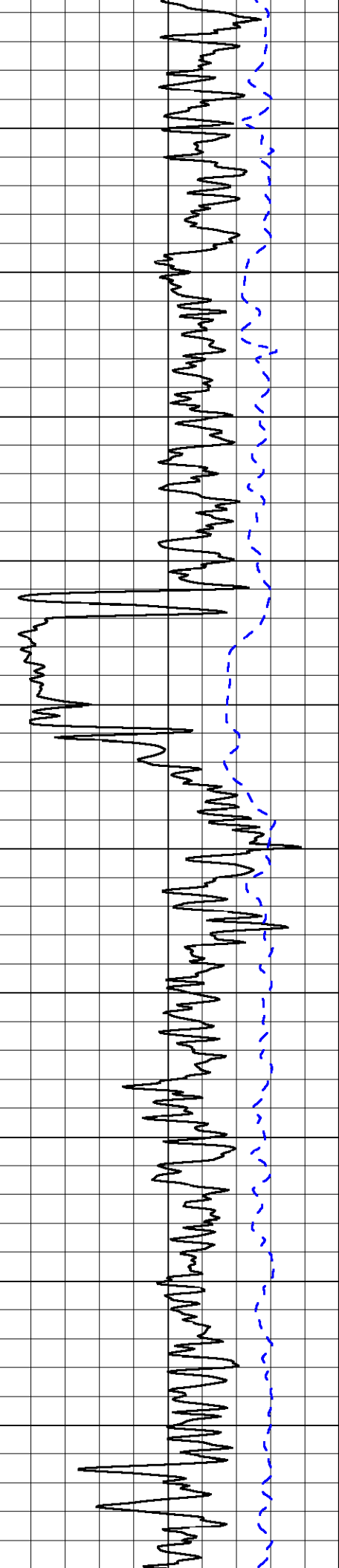
500
550
600
650
700
750
800
850
900
950
1000

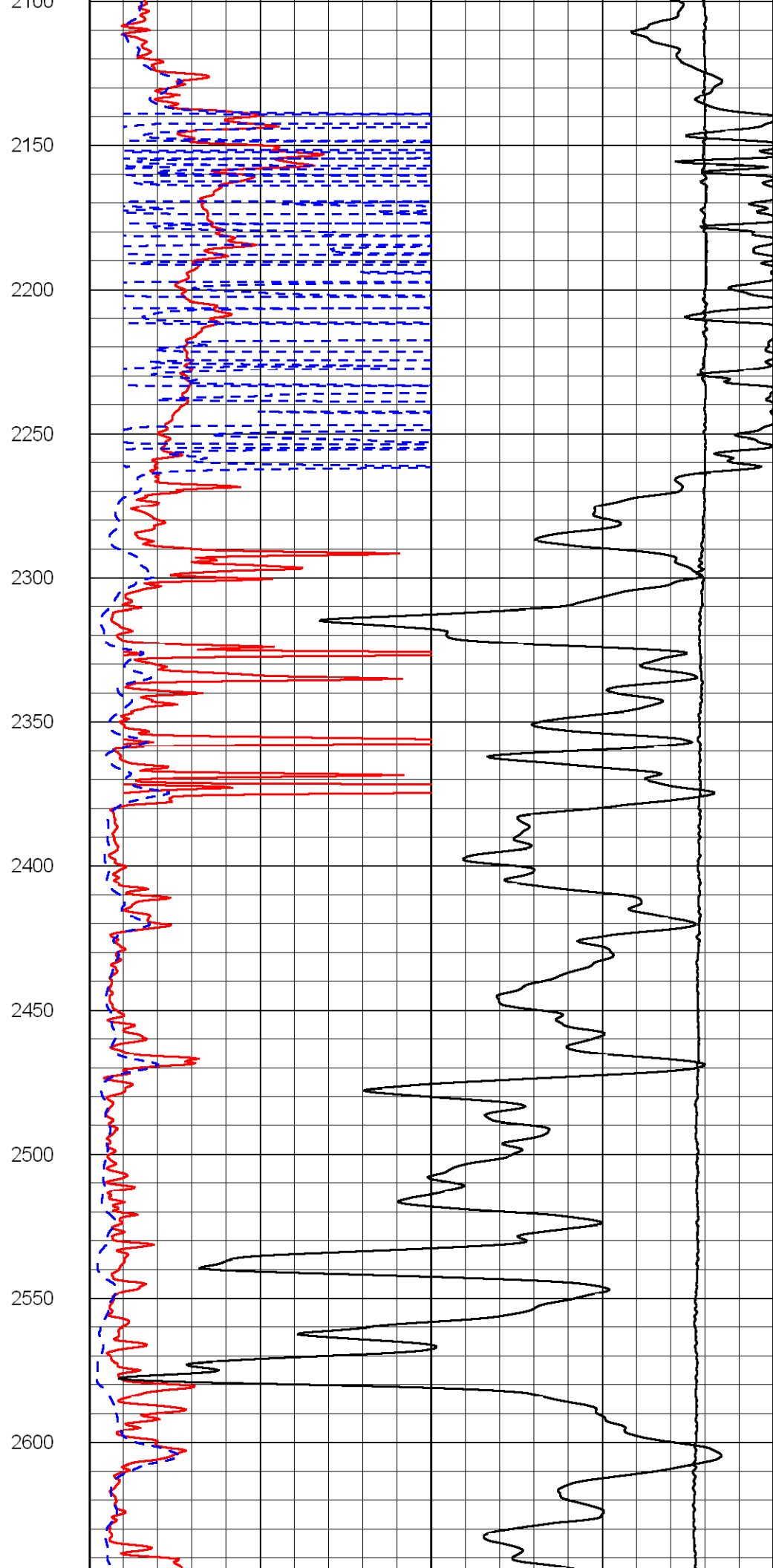
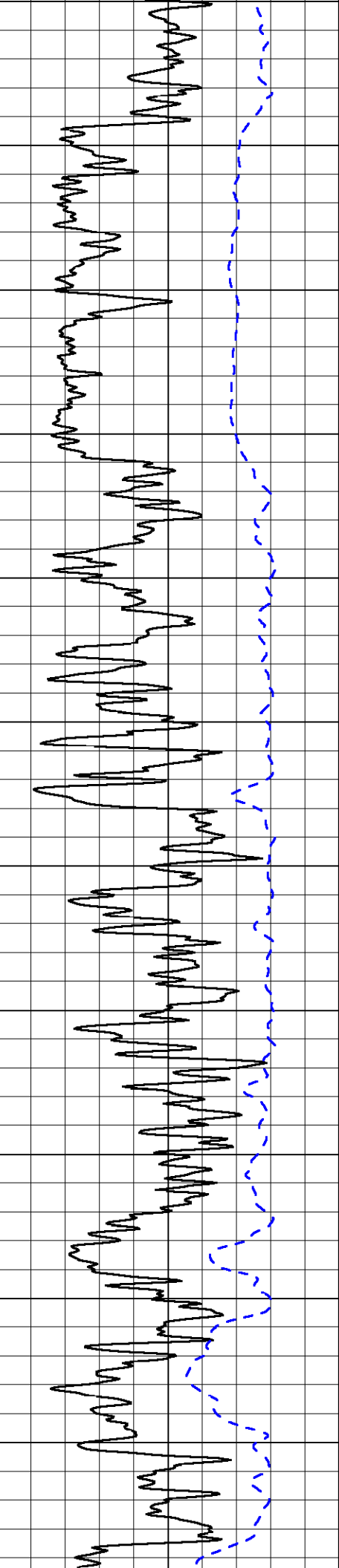


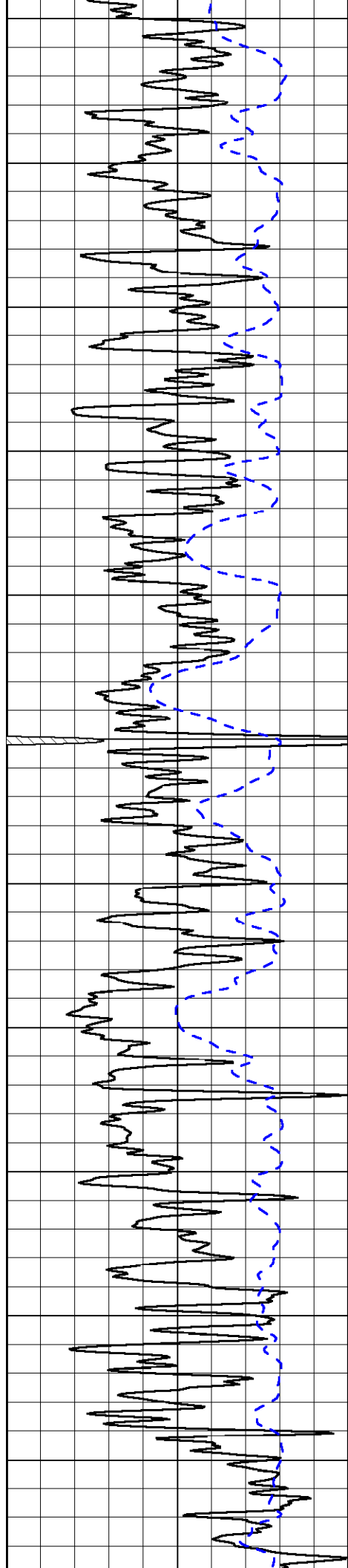


1050
1100
1150
1200
1250
1300
1350
1400
1450
1500
1550

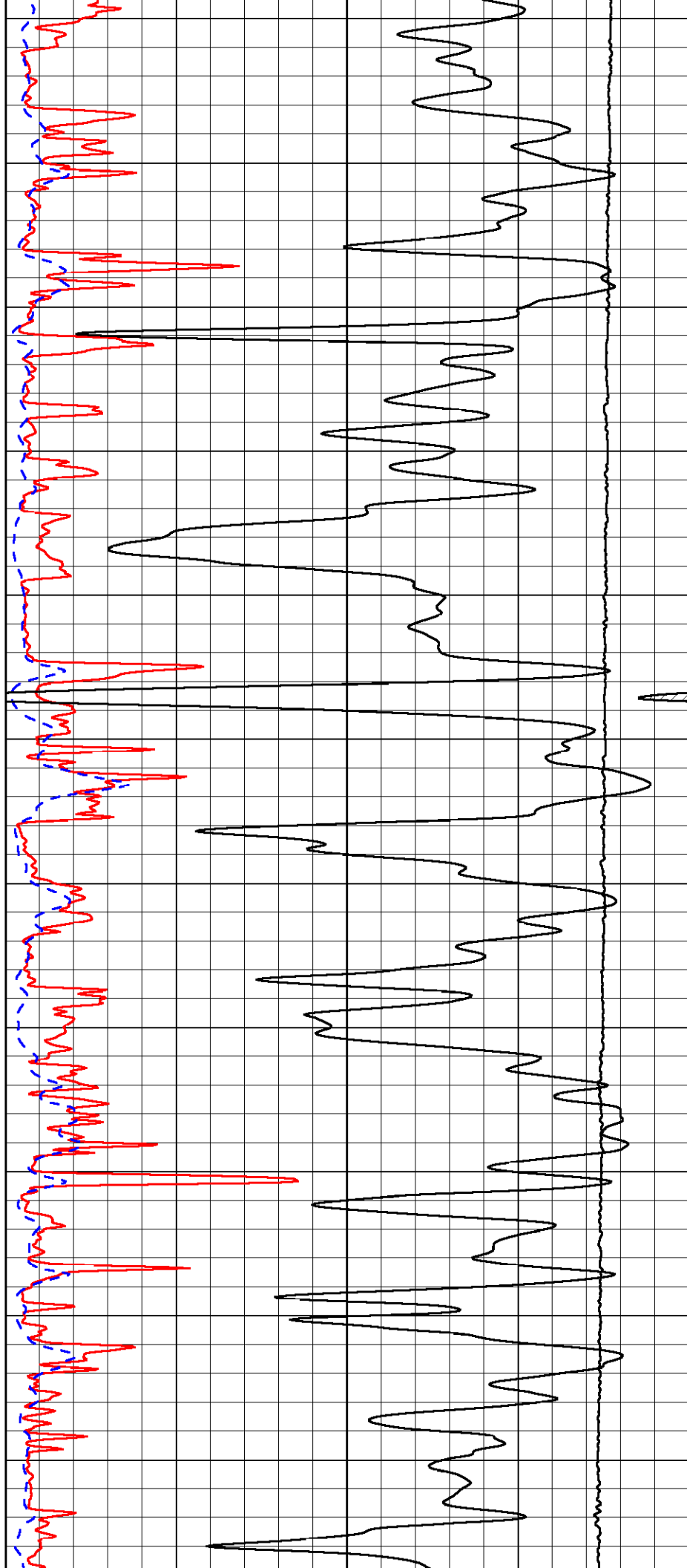


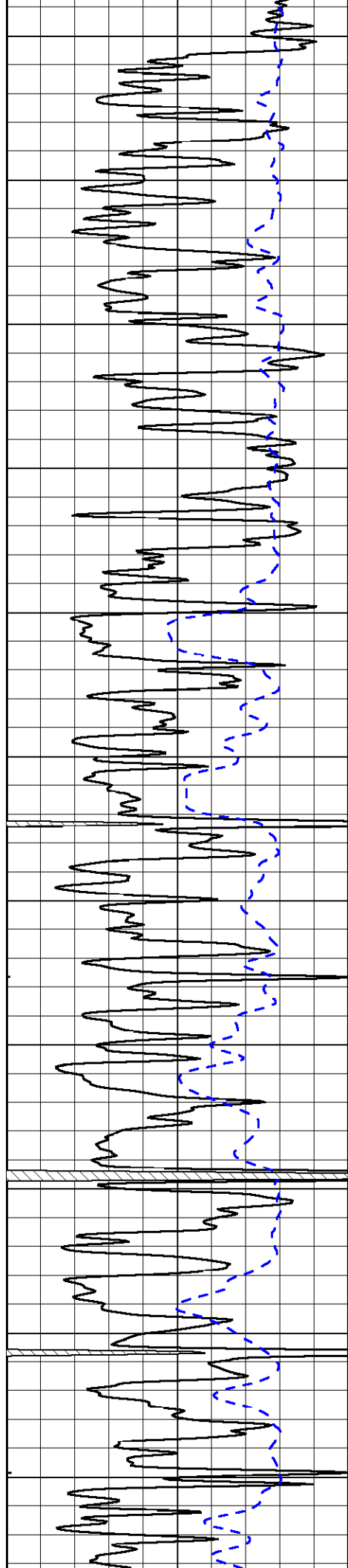






2650
2700
2750
2800
2850
2900
2950
3000
3050
3100
3150





3200

3250

3300

3350

3400

3450

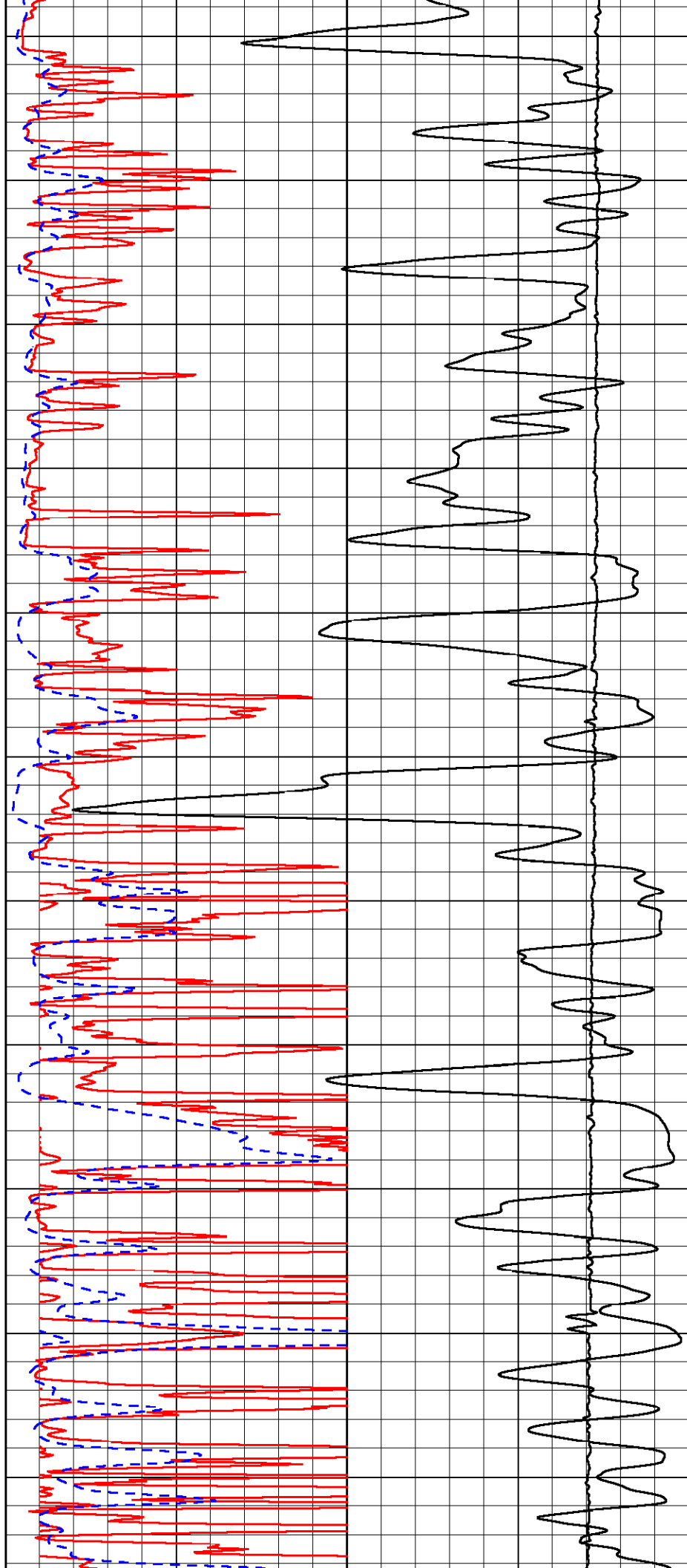
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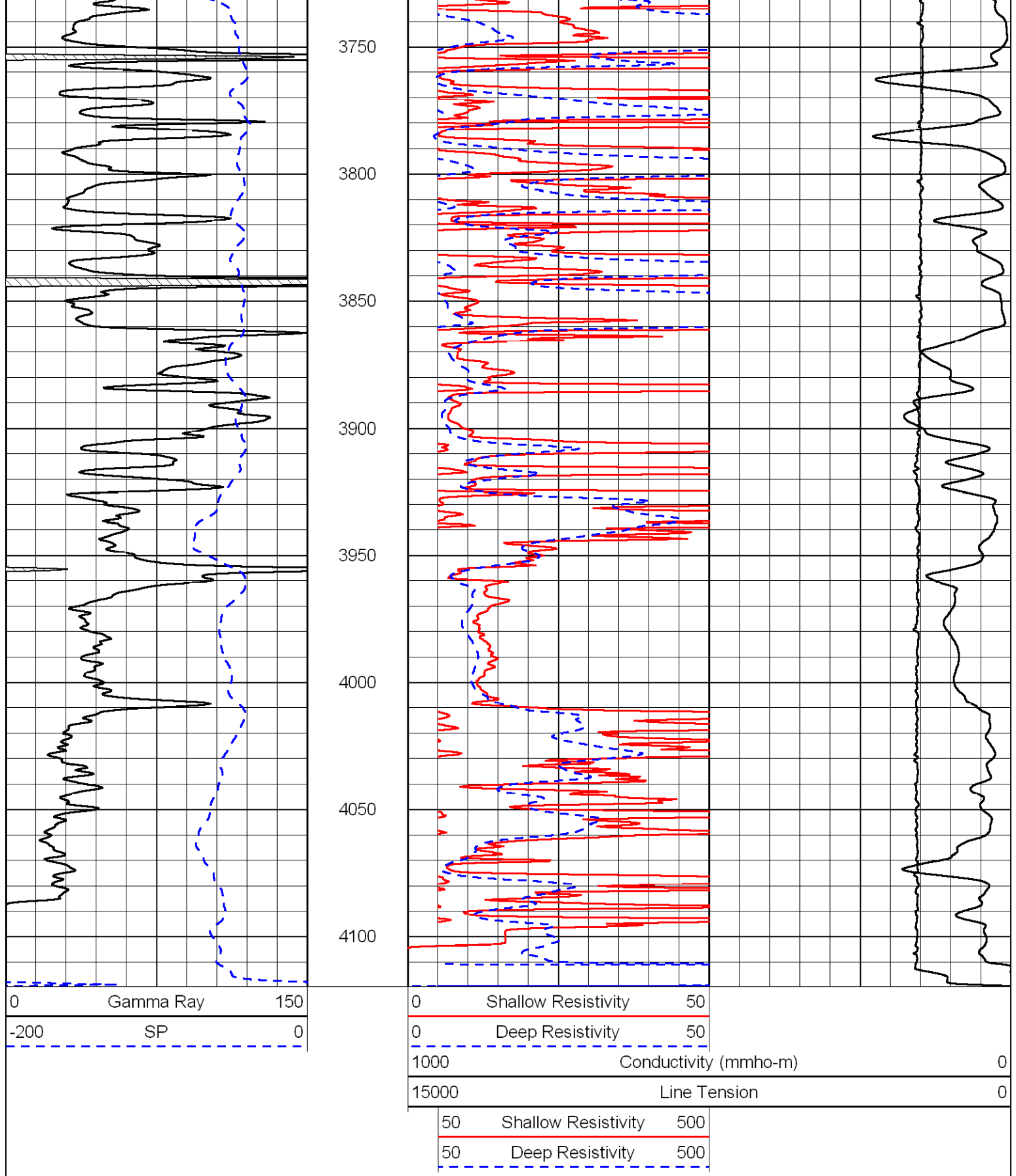
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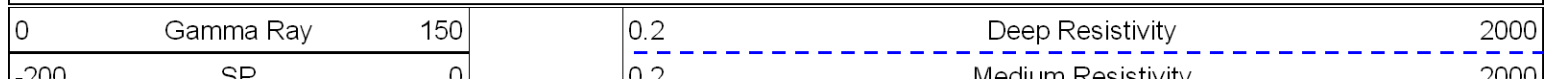
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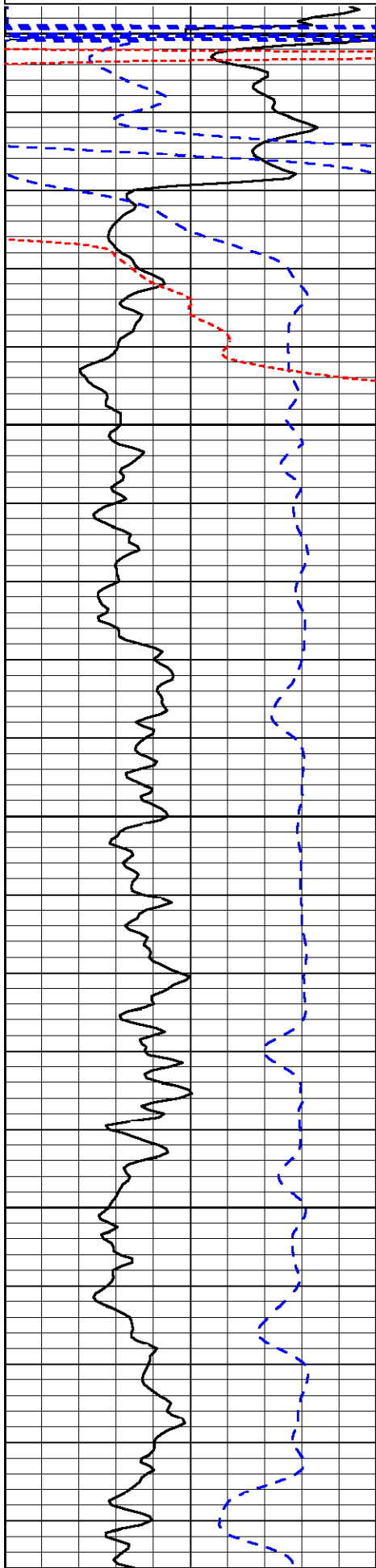




Database File: murfinhd.db
Dataset Pathname: dil/mfnstk
Presentation Format: dil
Dataset Creation: Fri Sep 25 04:29:53 2009
Charted by: Depth in Feet scaled 1:240



200 0
-160 Rxo / Rt 40



0

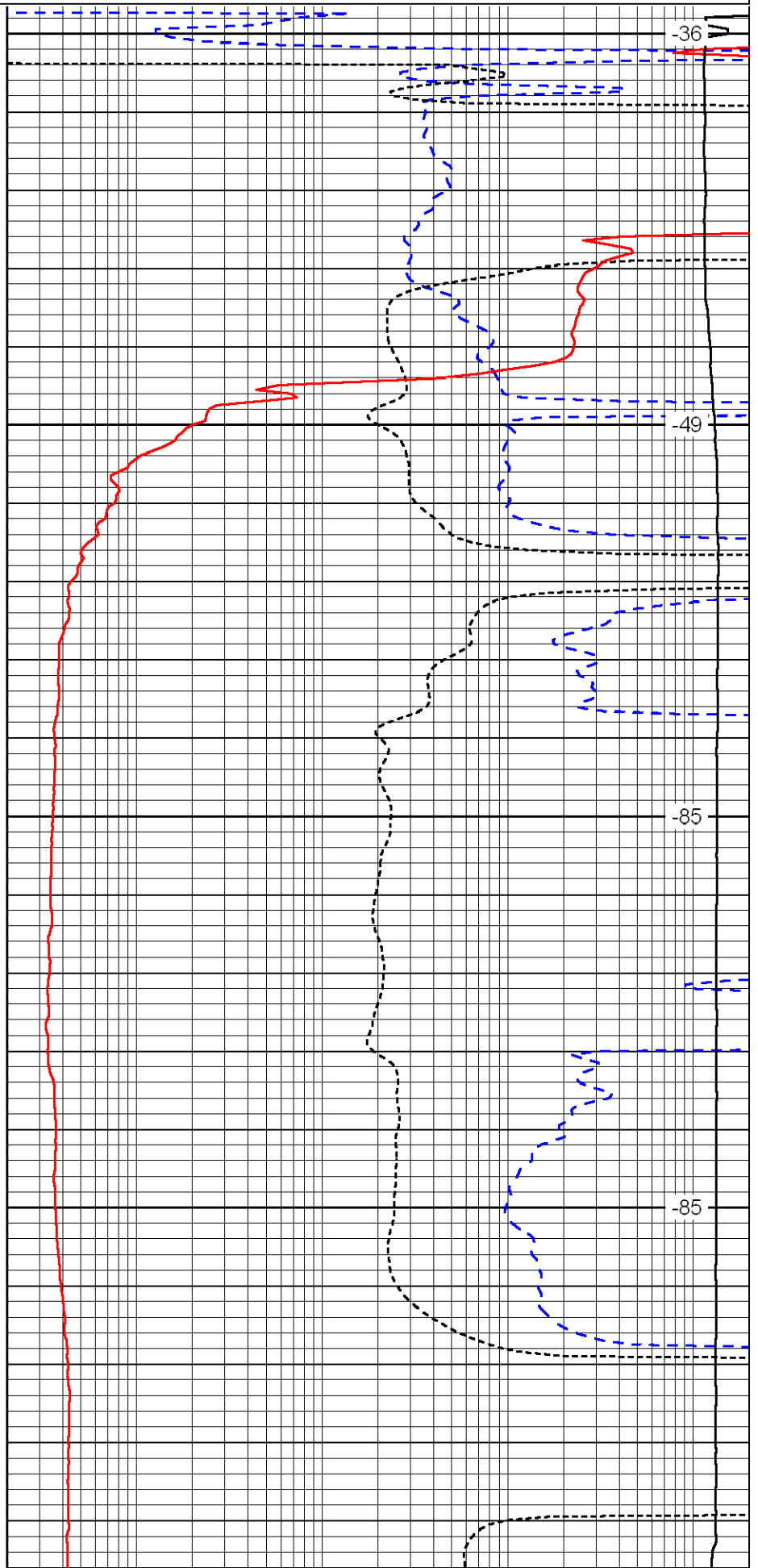
50

100

150

0.2 Medium Resistivity 2000
0.2 Shallow Resistivity 2000
15000 Line Tension 0

LSPD

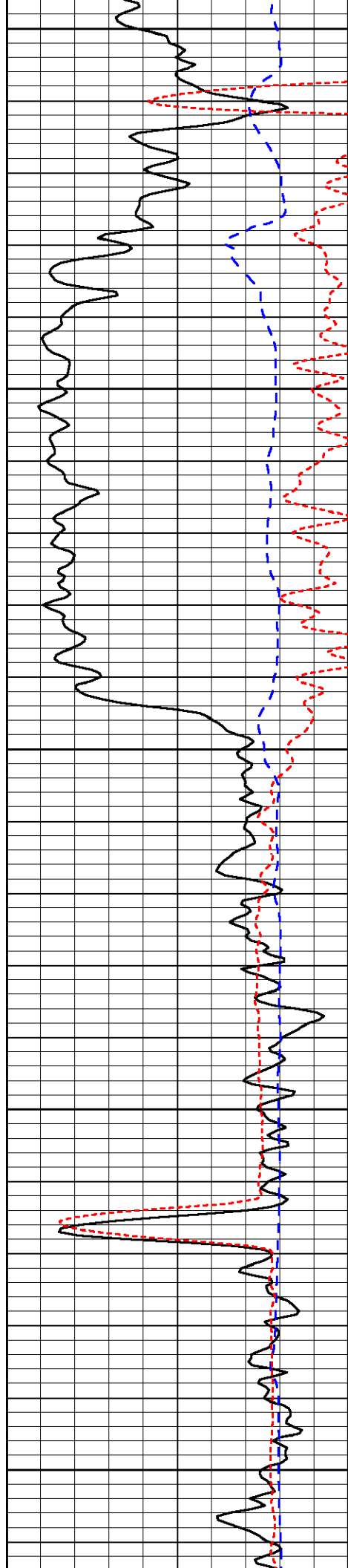


-36

-49

-85

-85



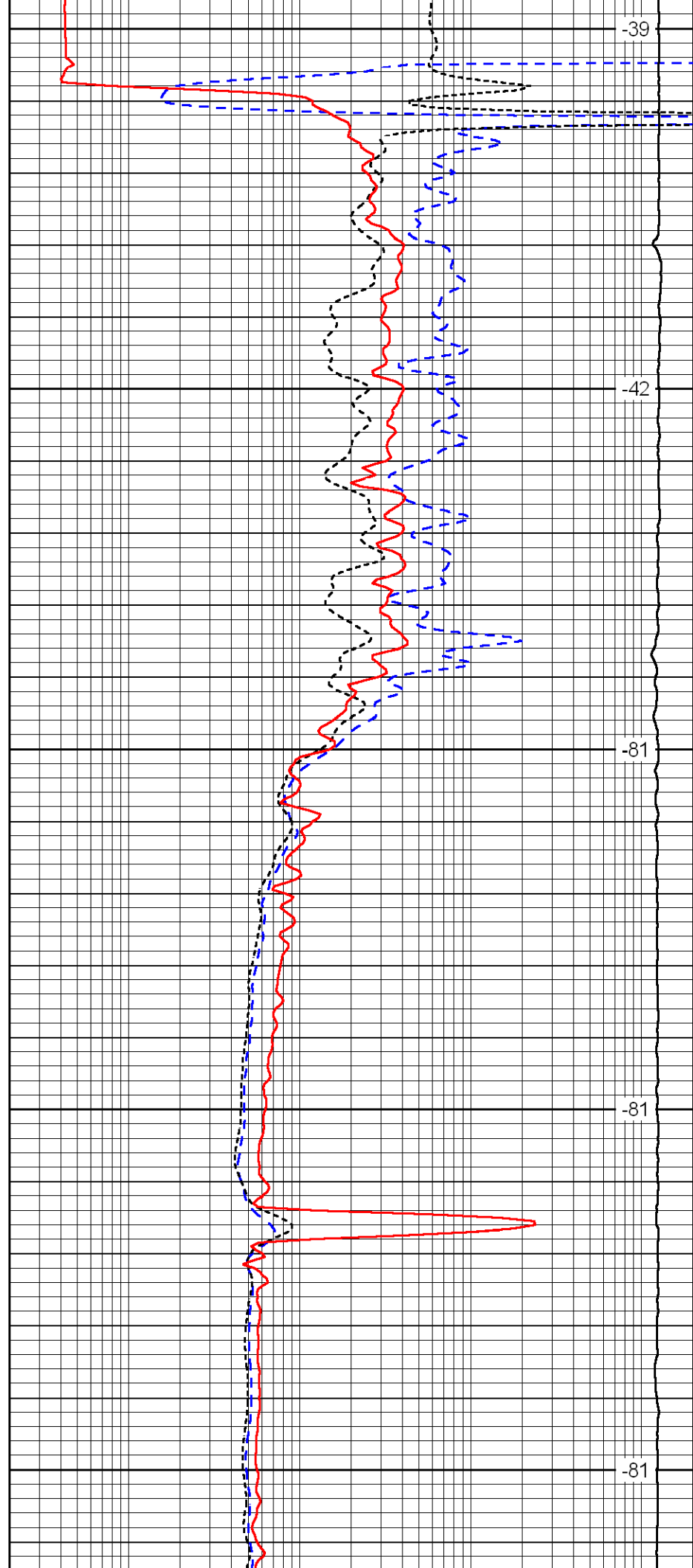
200

250

300

350

400



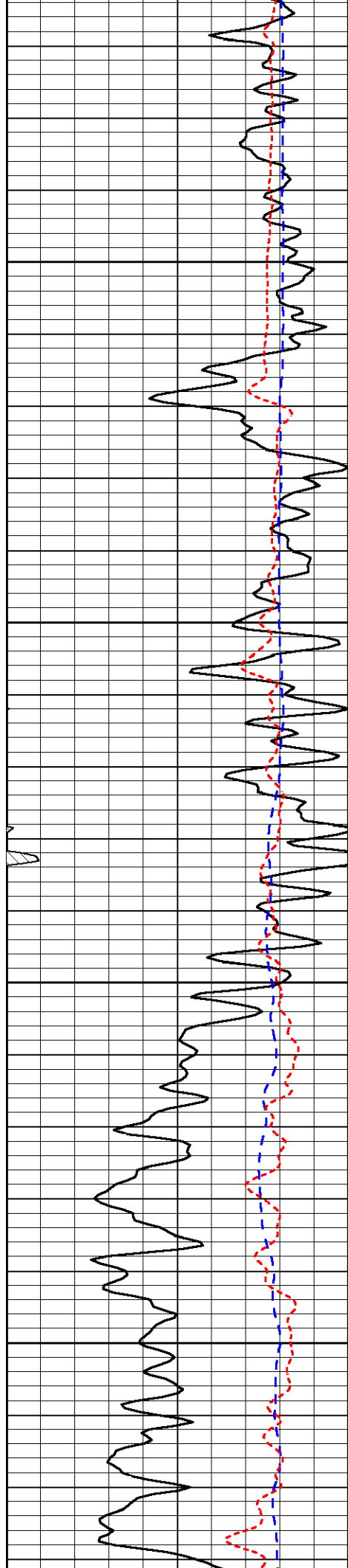
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-81

-81

-81

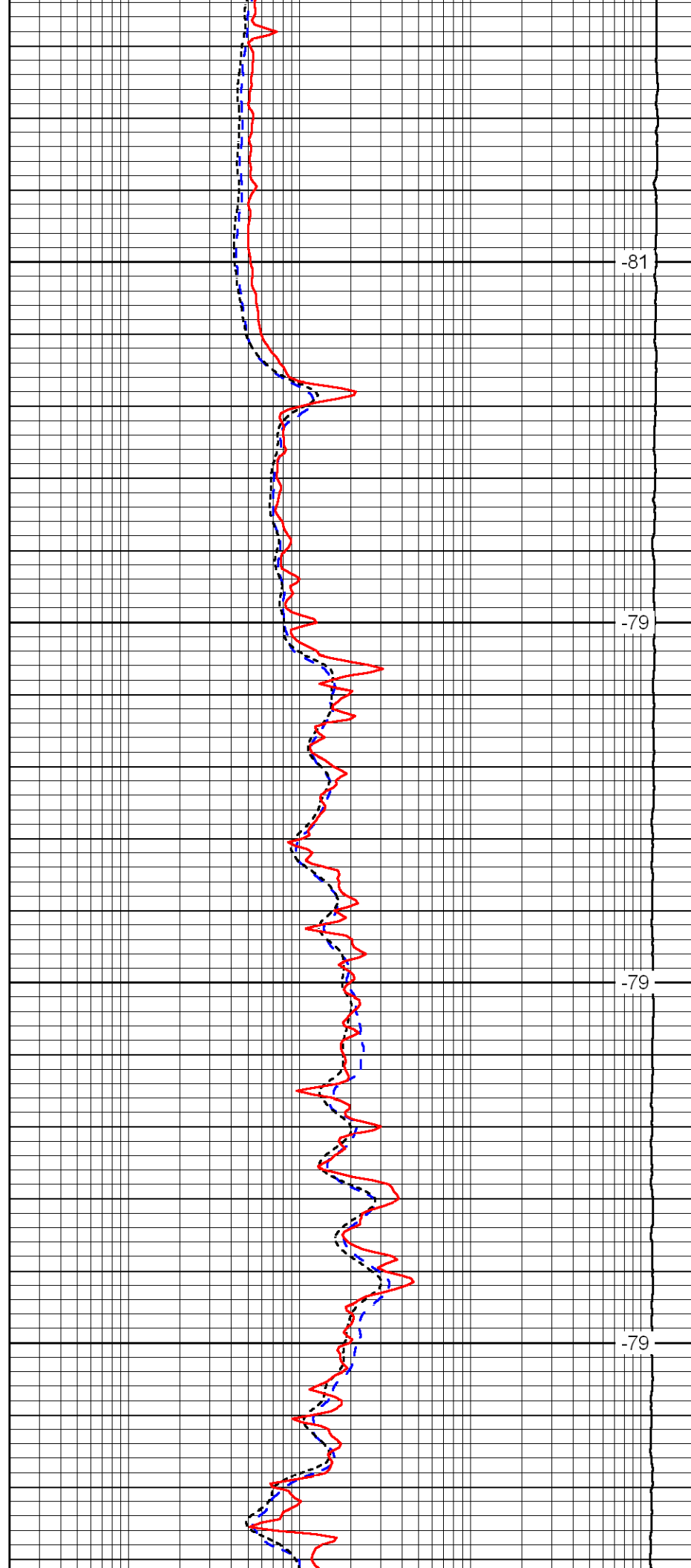


450

500

550

600

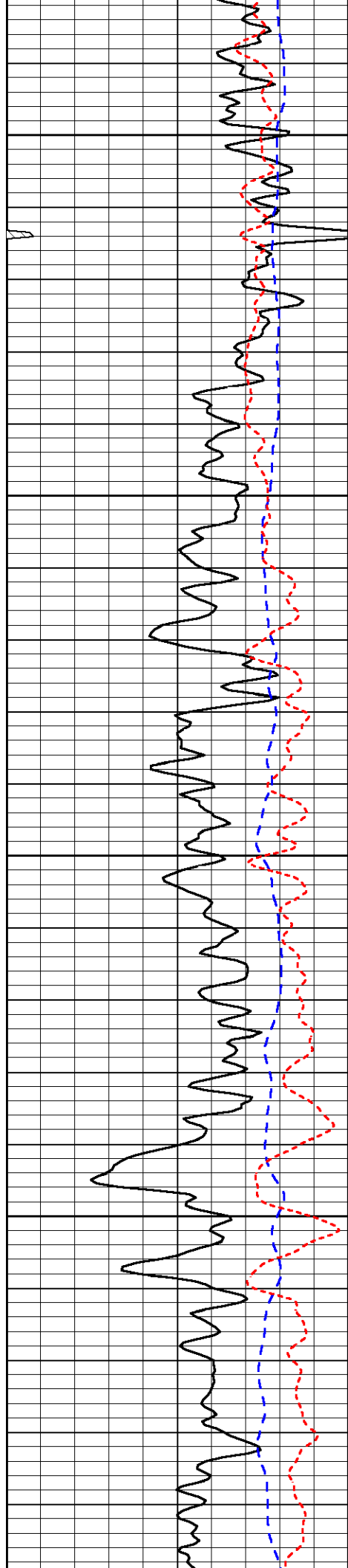


-81

-79

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-79

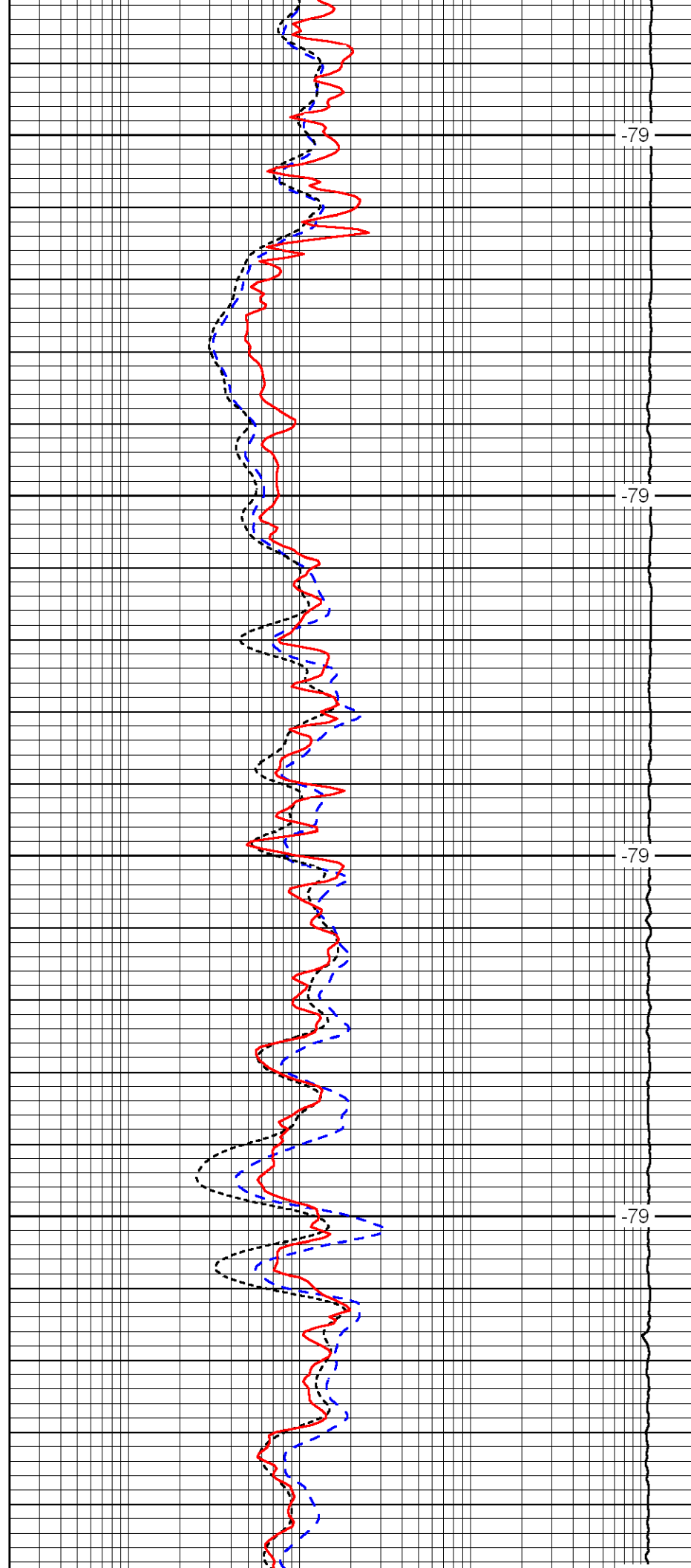


650

700

750

800

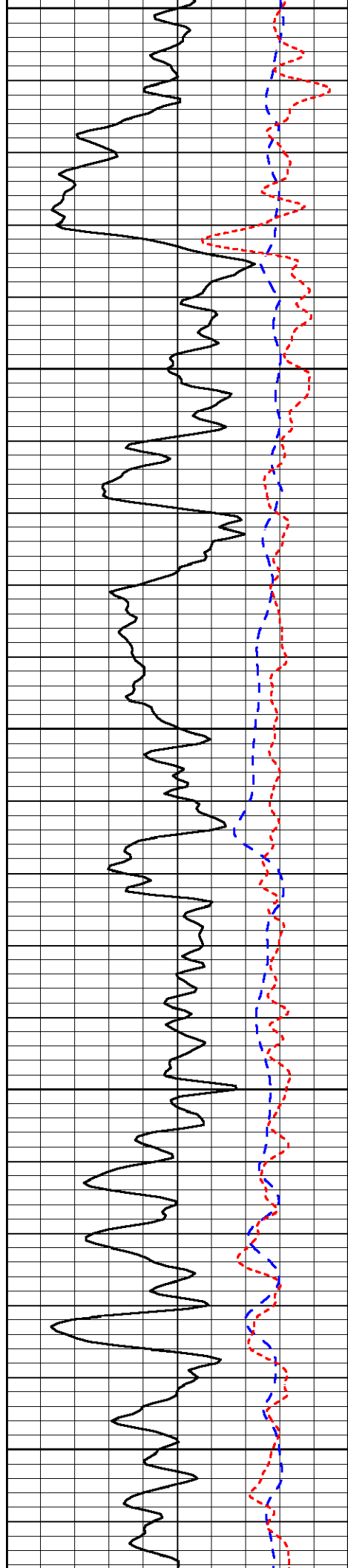


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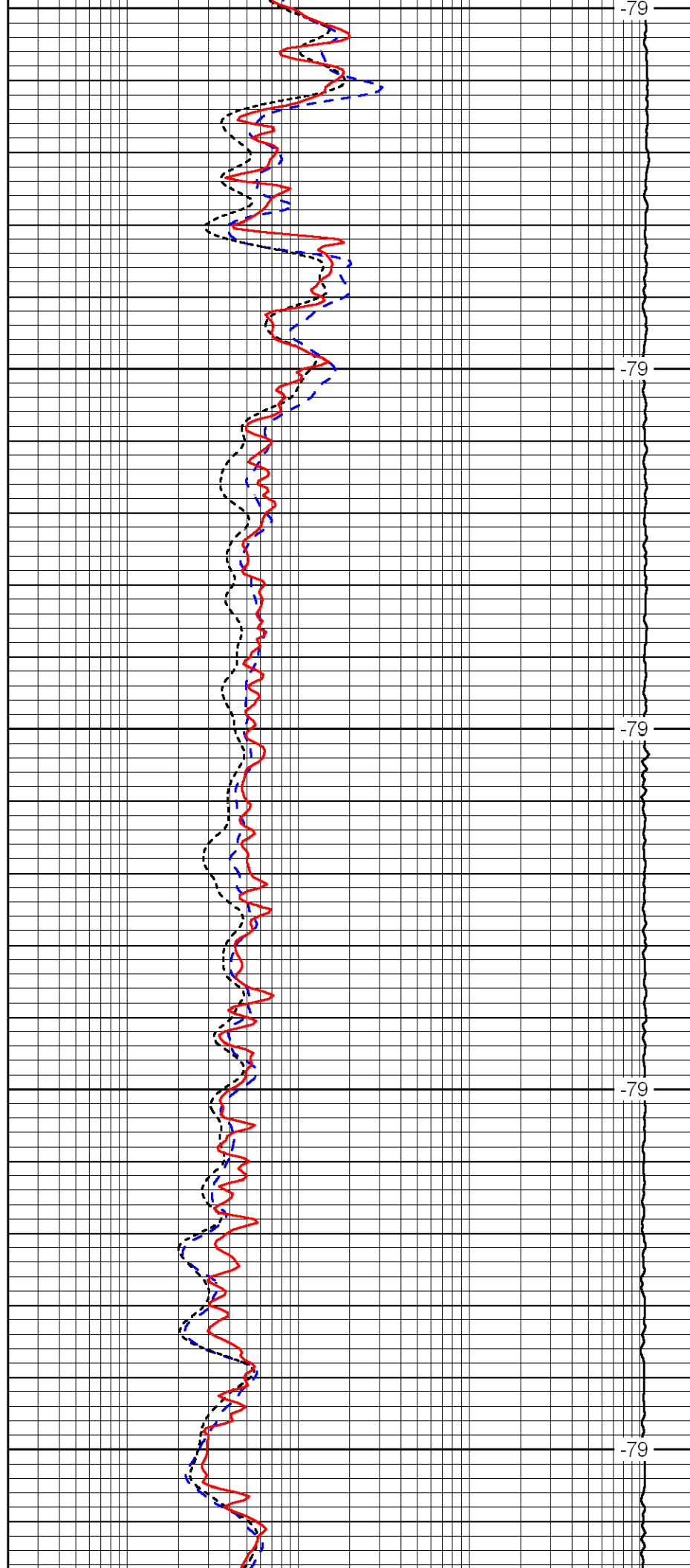
850

900

950

1000

1050



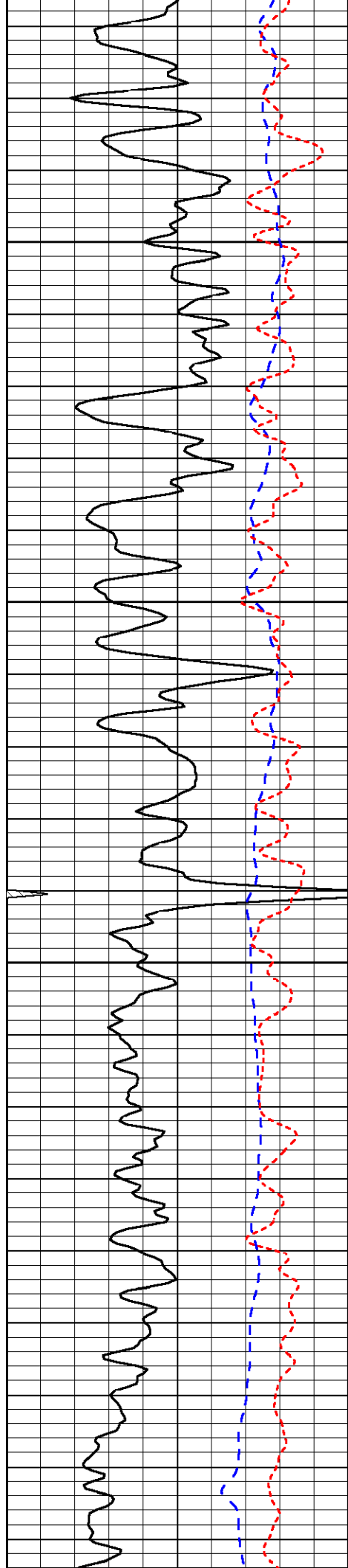
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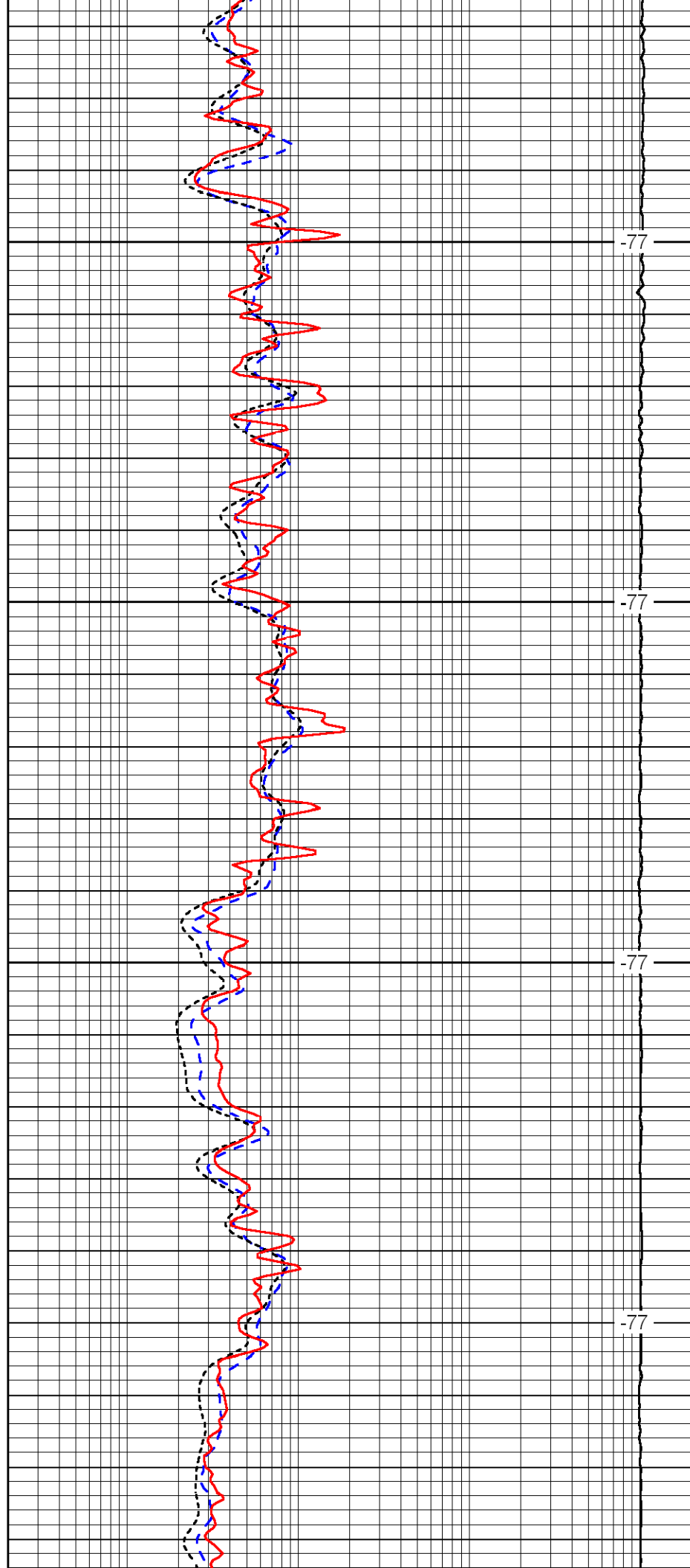


1100

1150

1200

1250

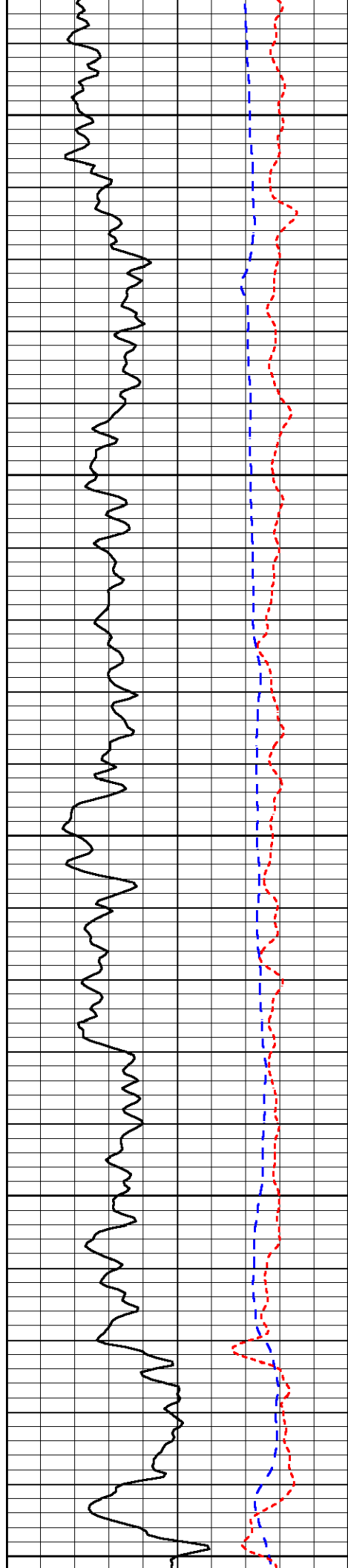


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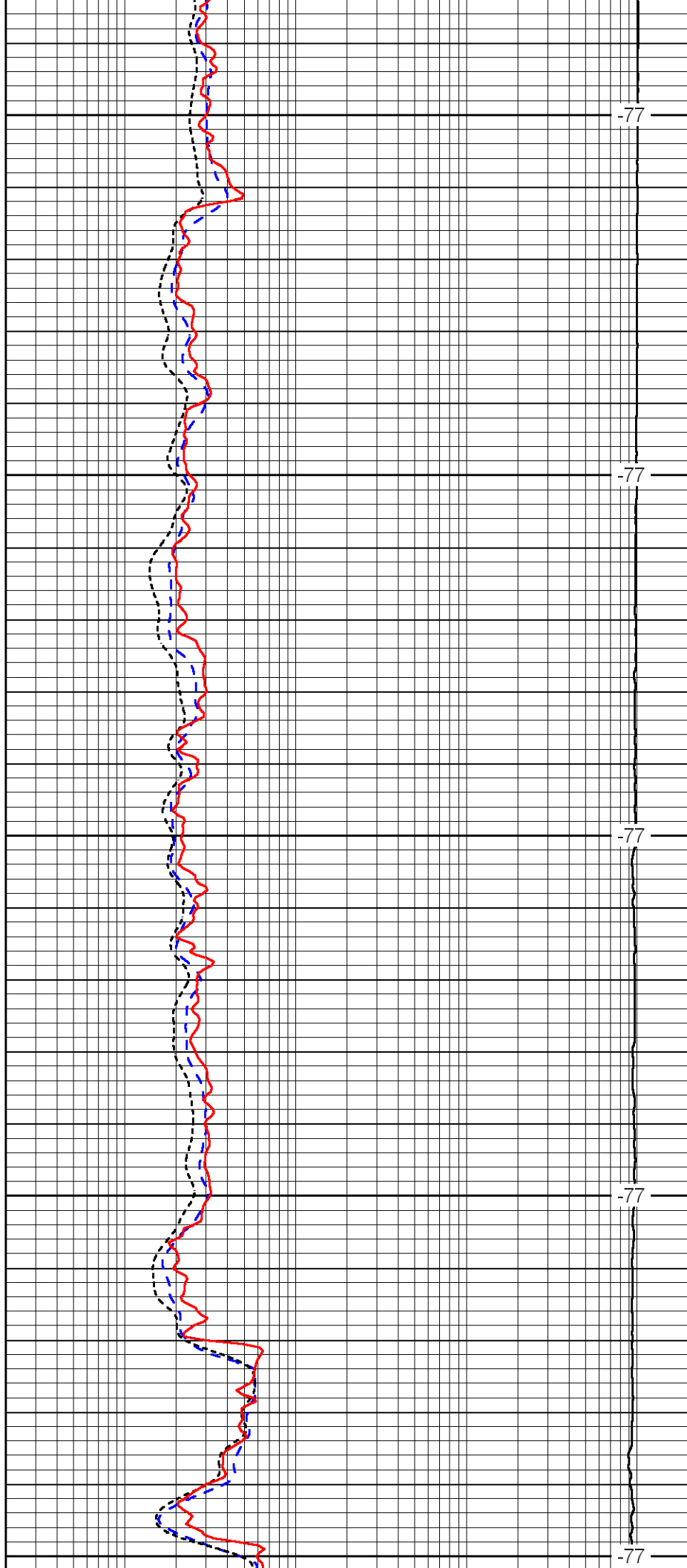
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1350

1400

1450

1500



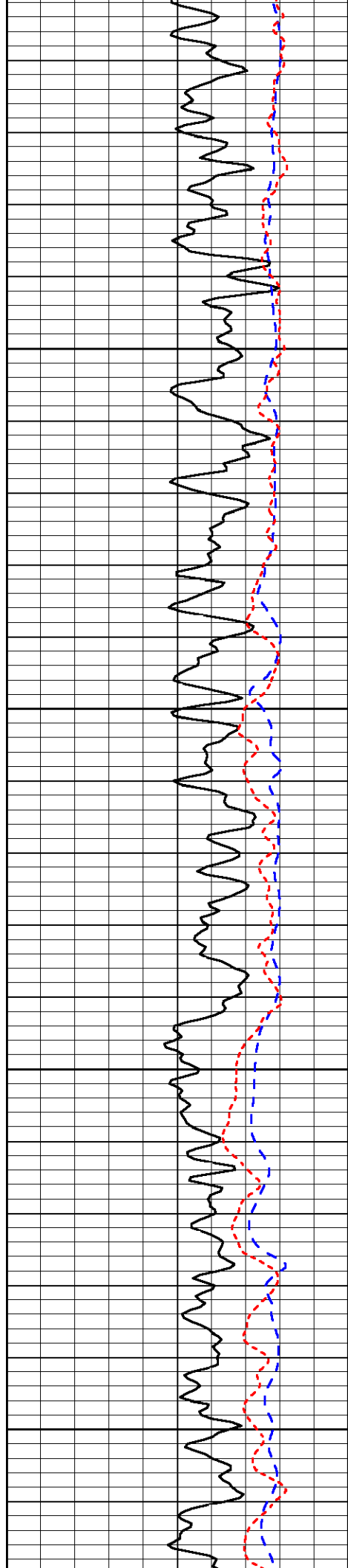
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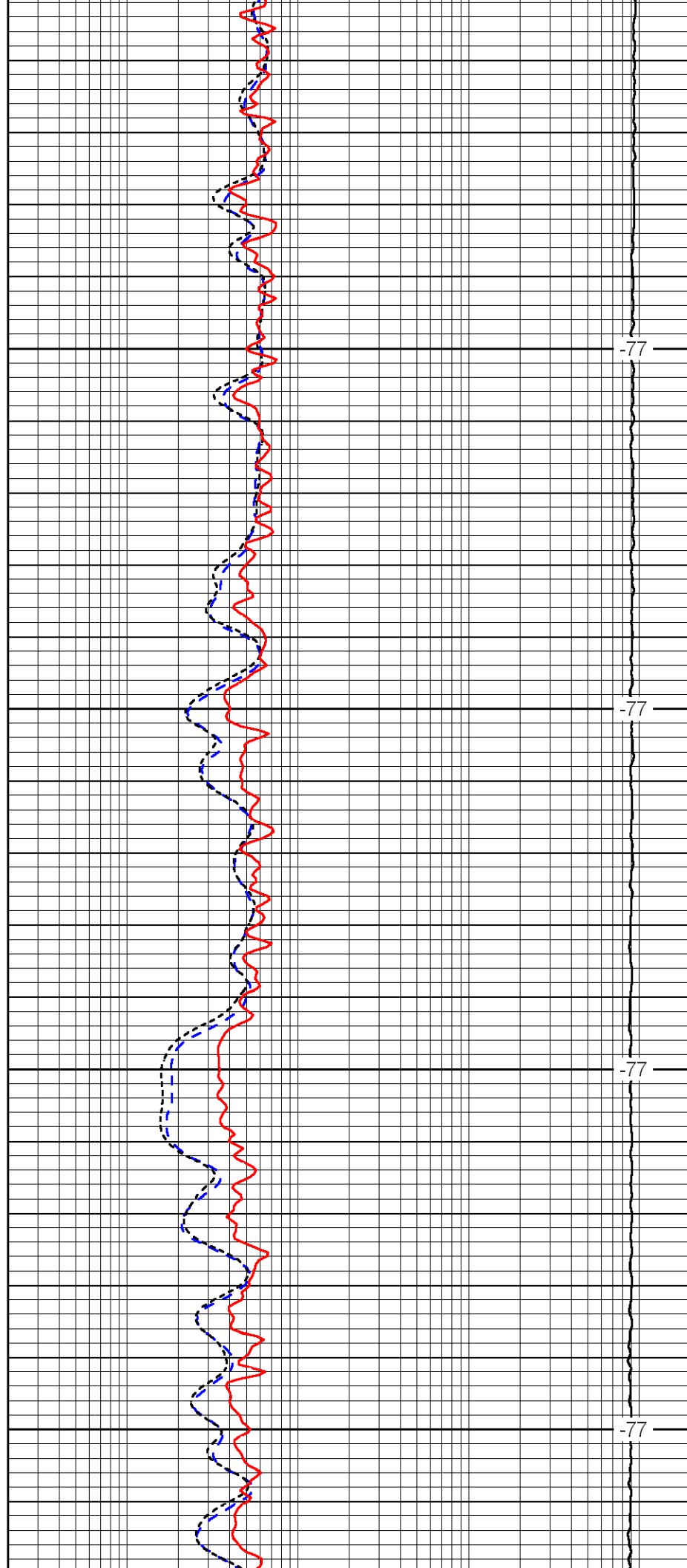


1550

1600

1650

1700

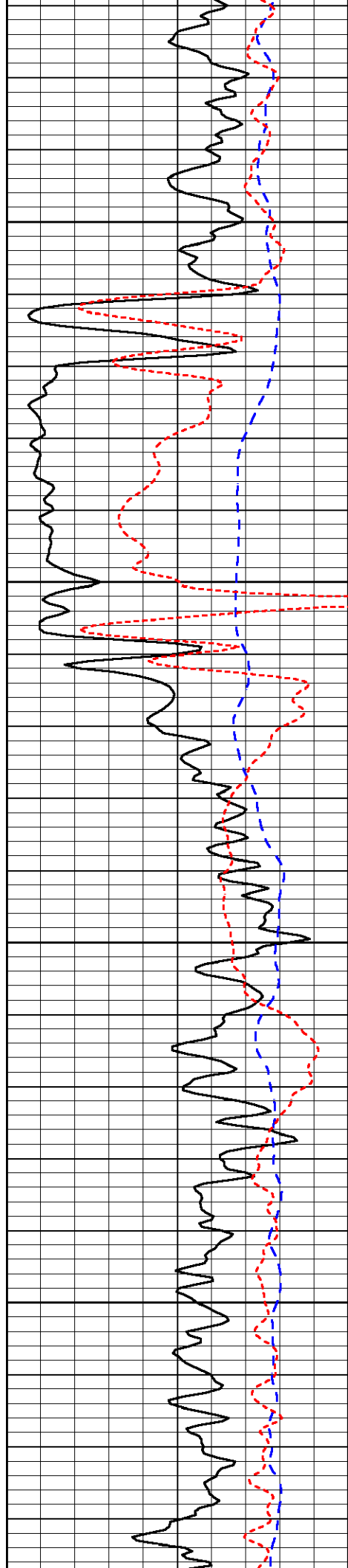


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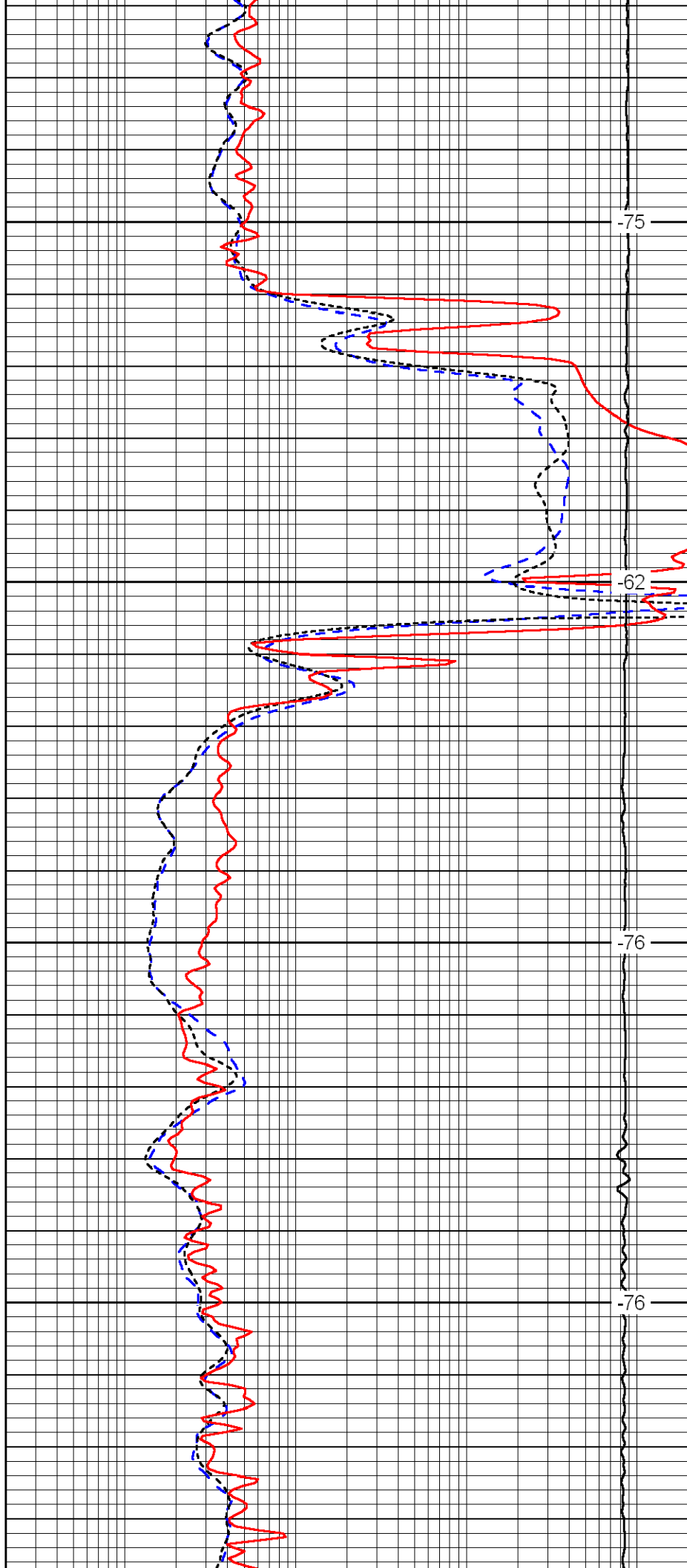


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1800

1850

1900

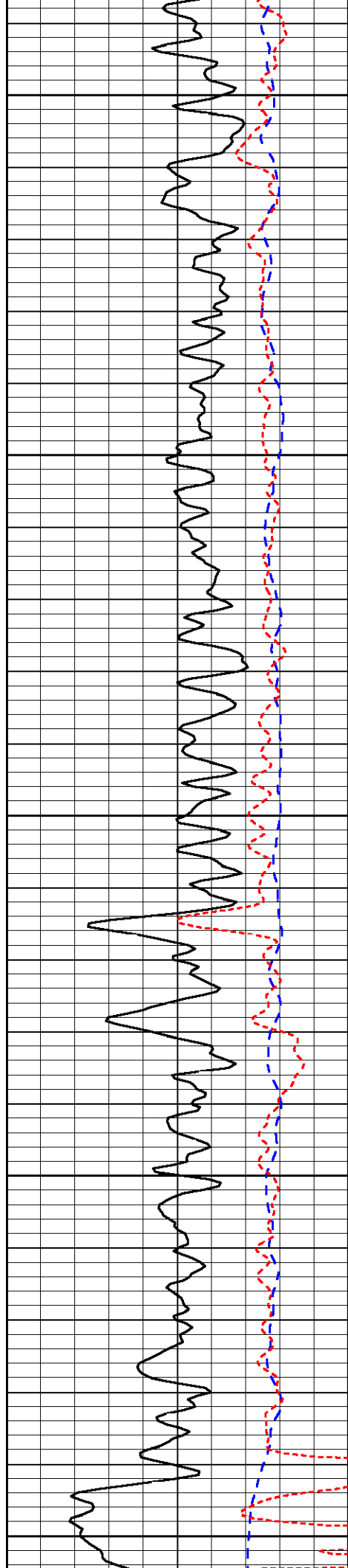


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-76

-76



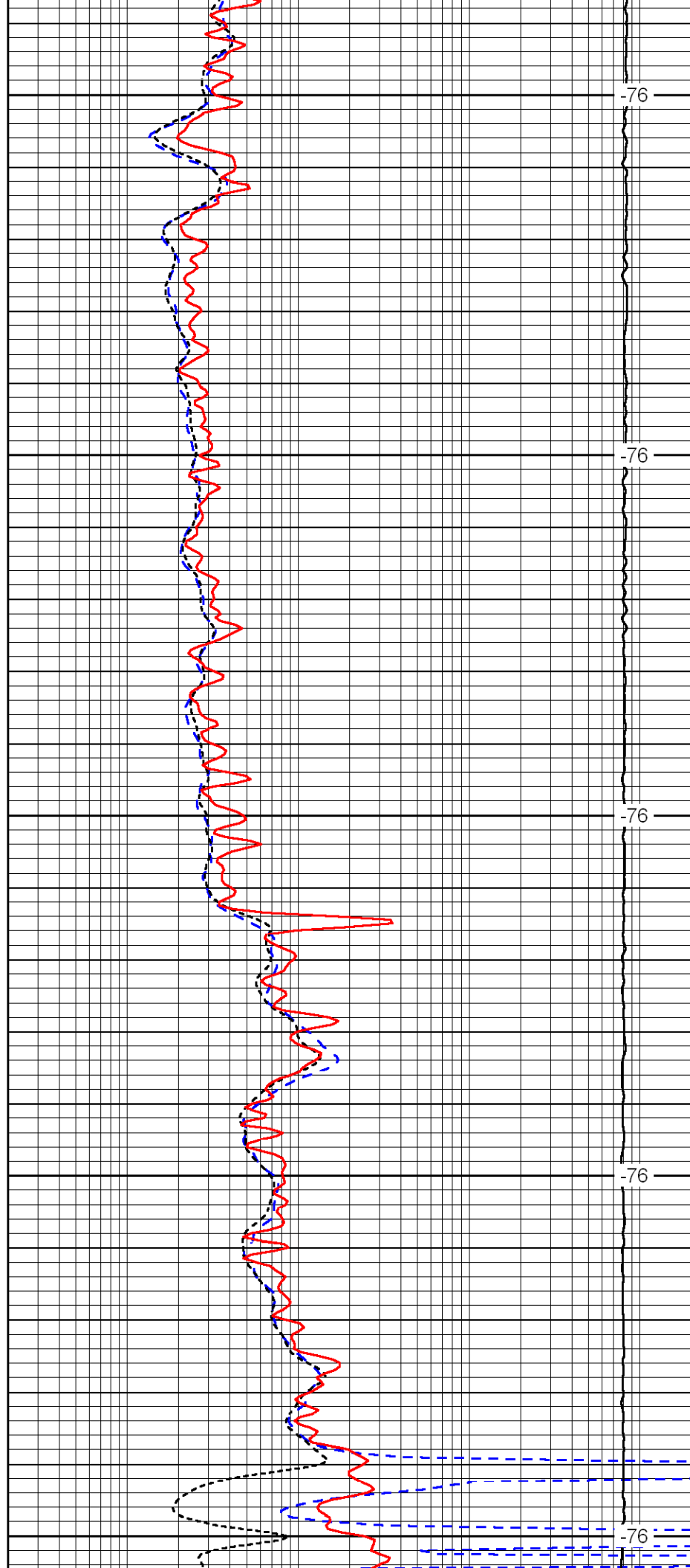
1950

2000

2050

2100

2150



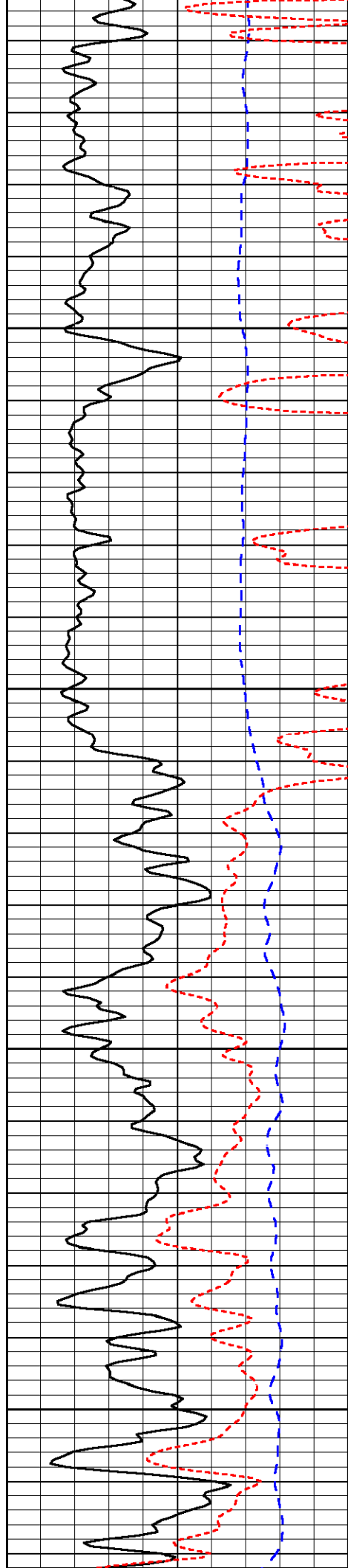
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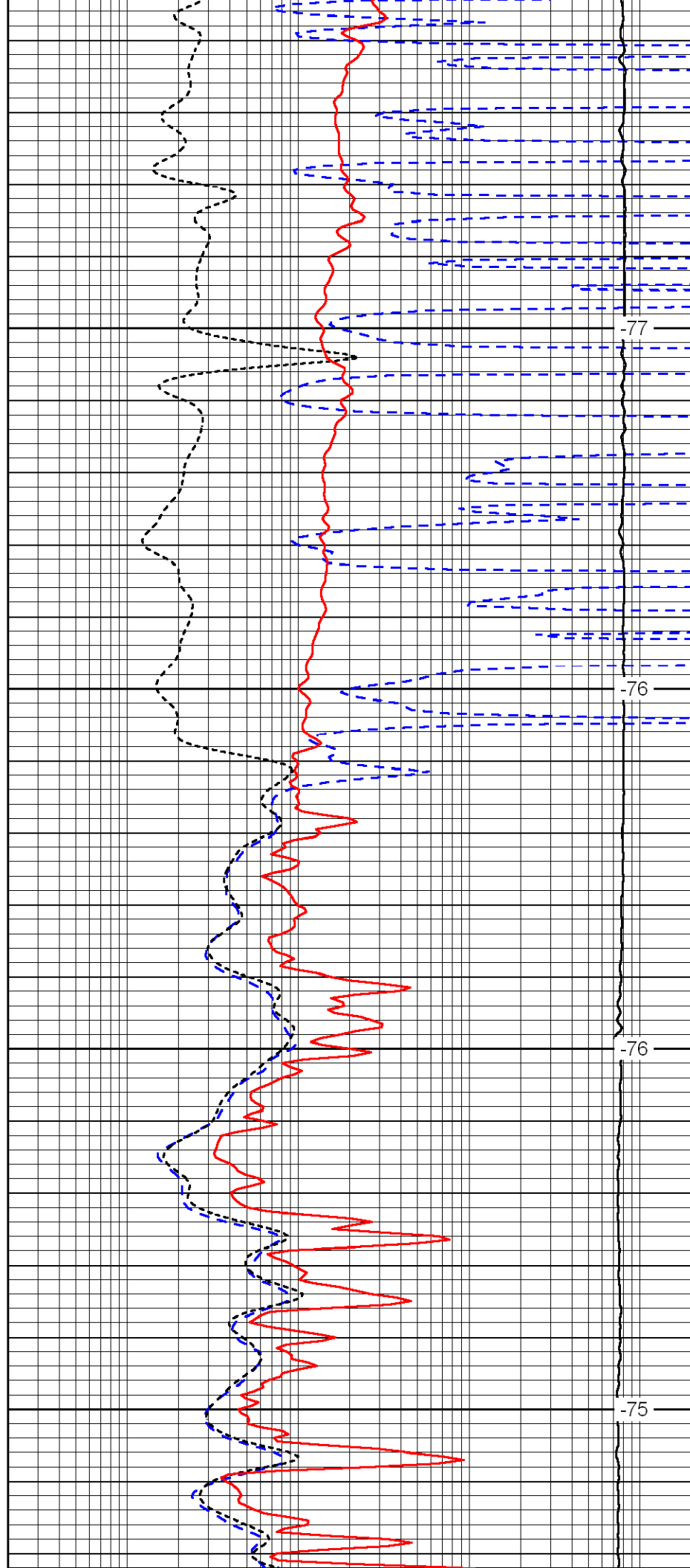


2200

2250

2300

2350

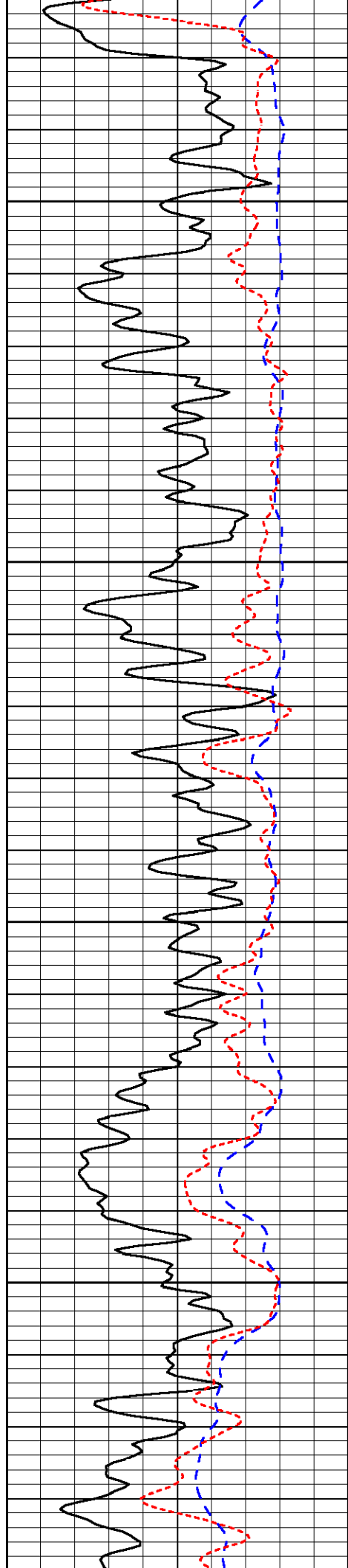


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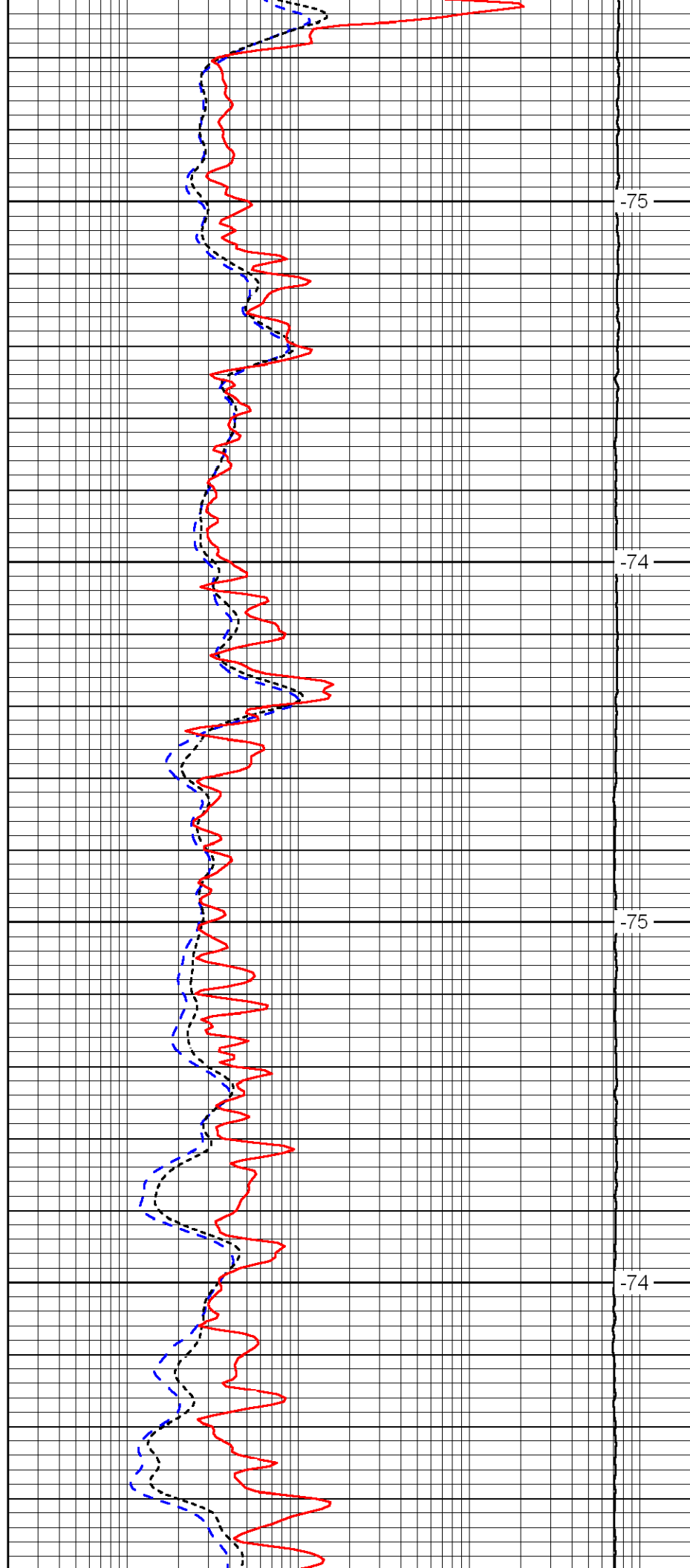


2400

2450

2500

2550

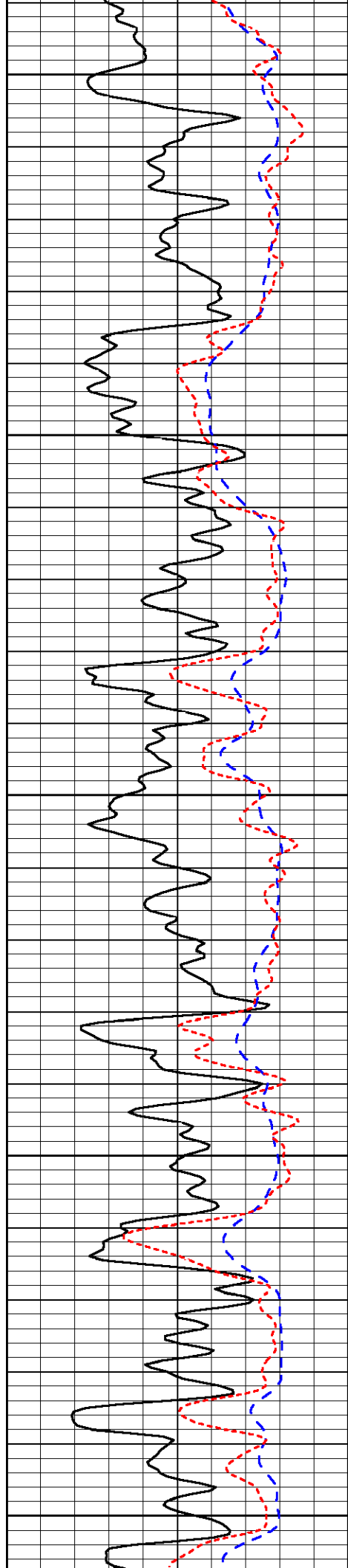


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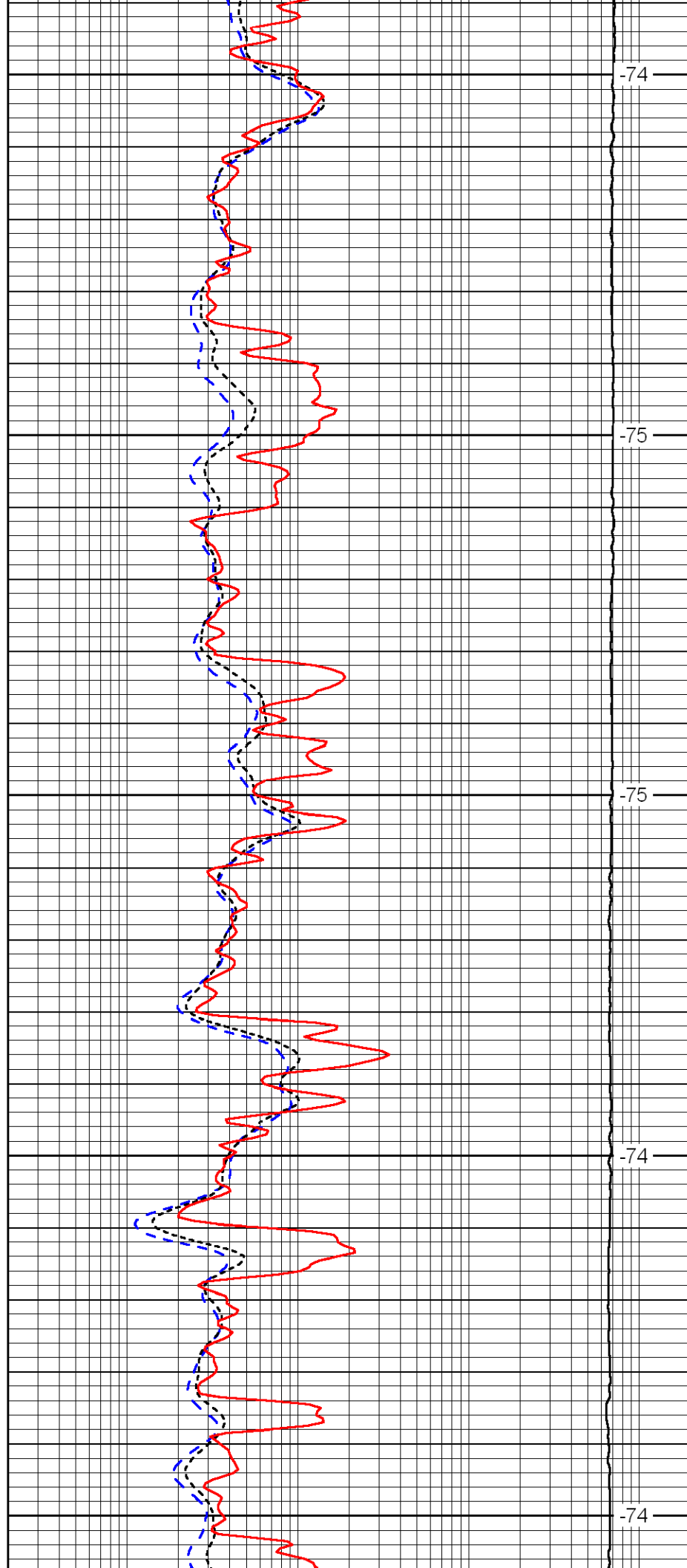
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2650

2700

2750

2800



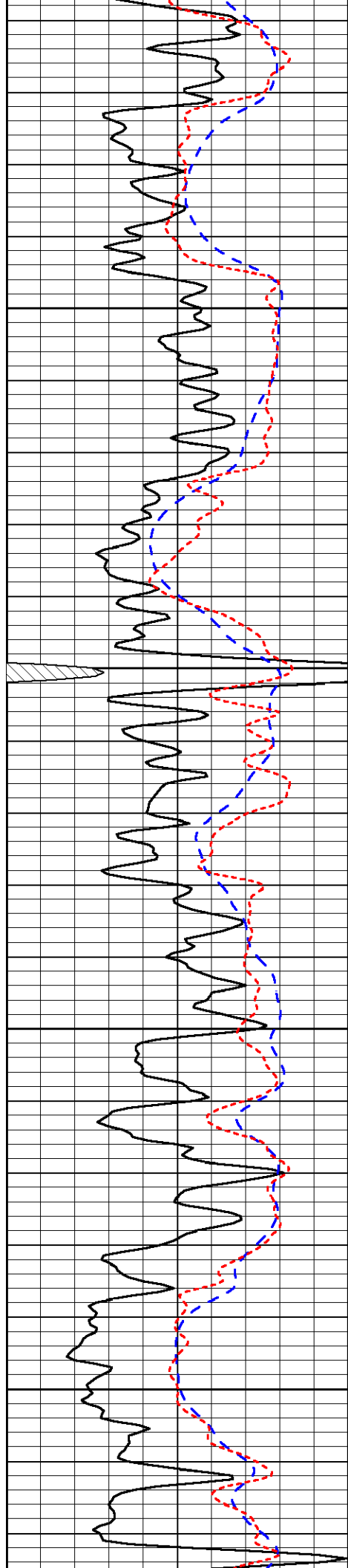
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-74

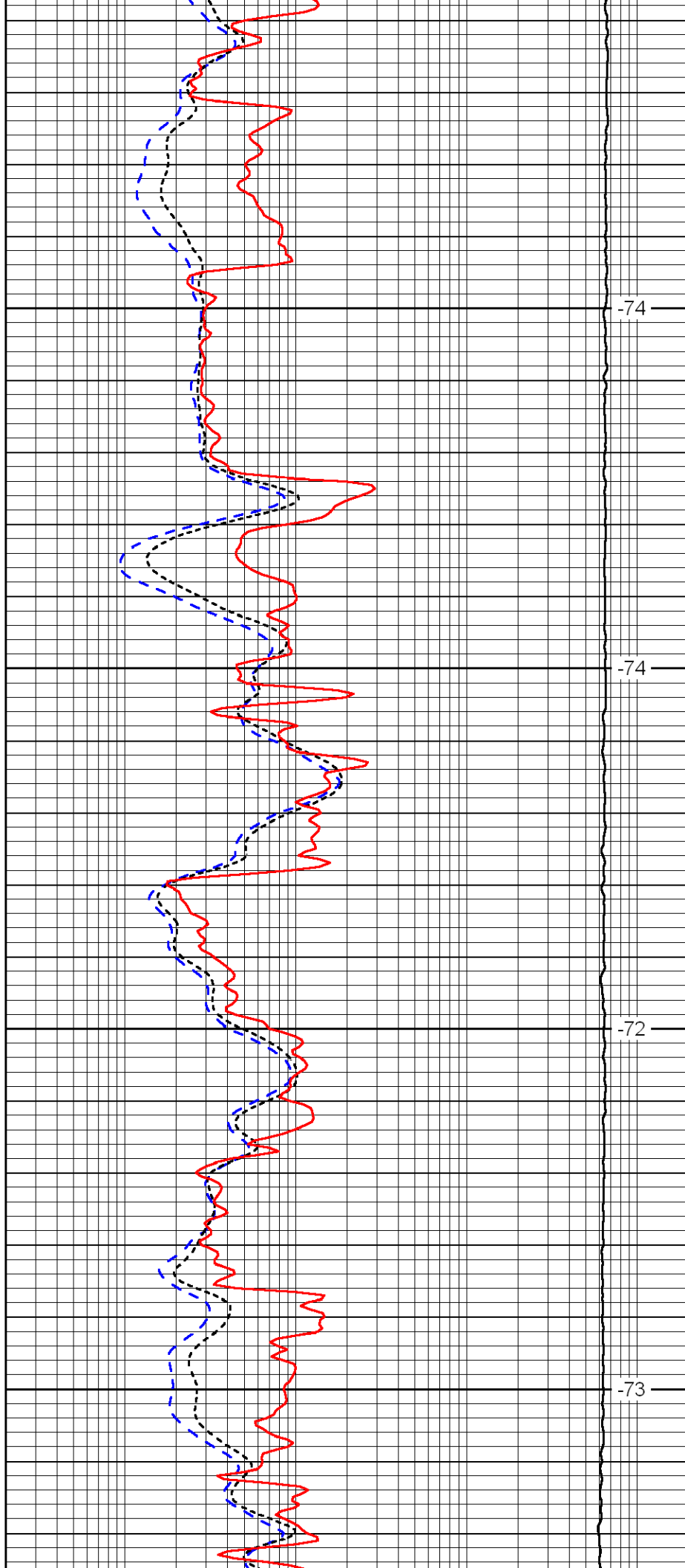


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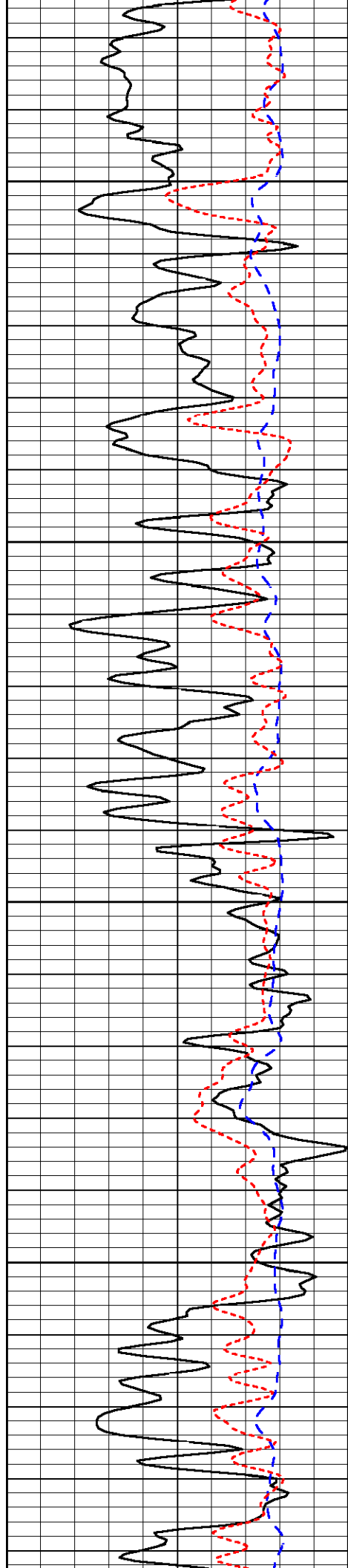


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-74

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-73

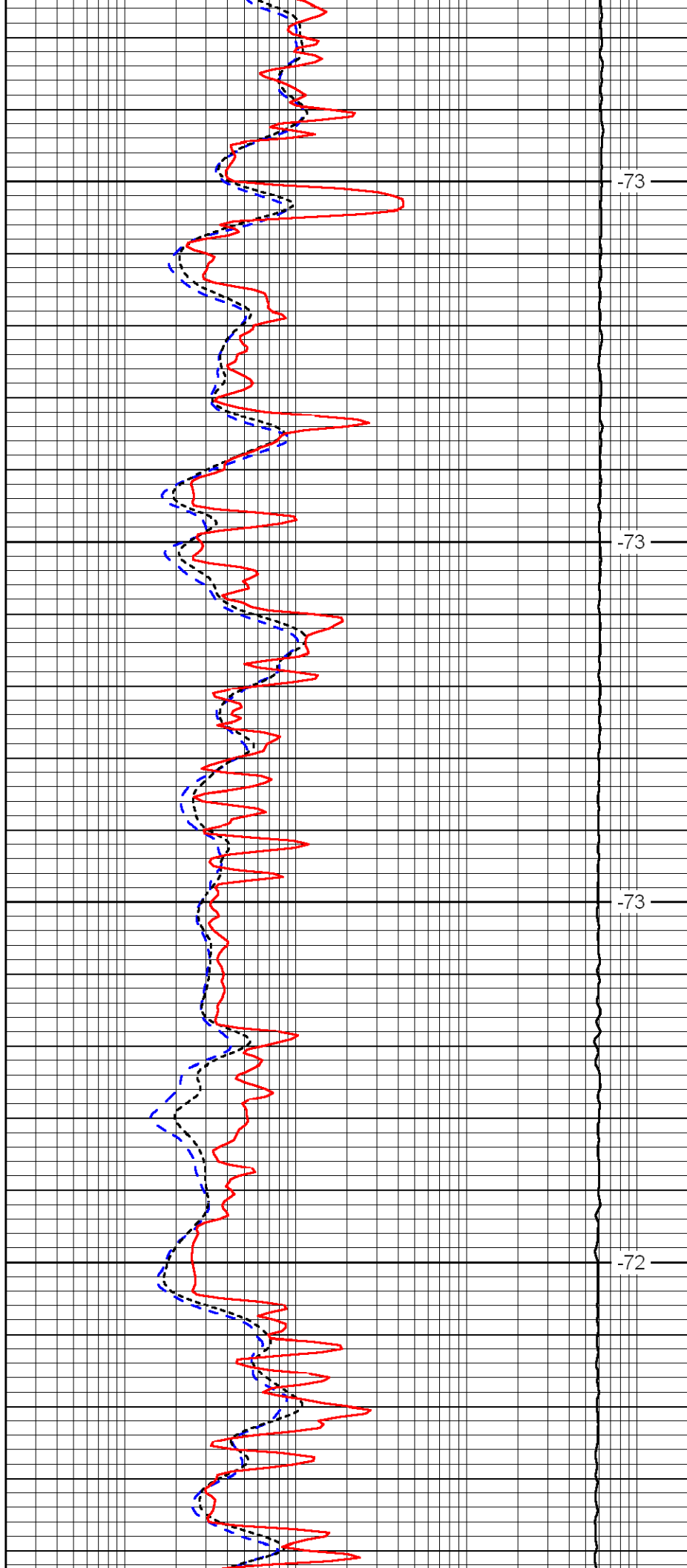


3050

3100

3150

3200

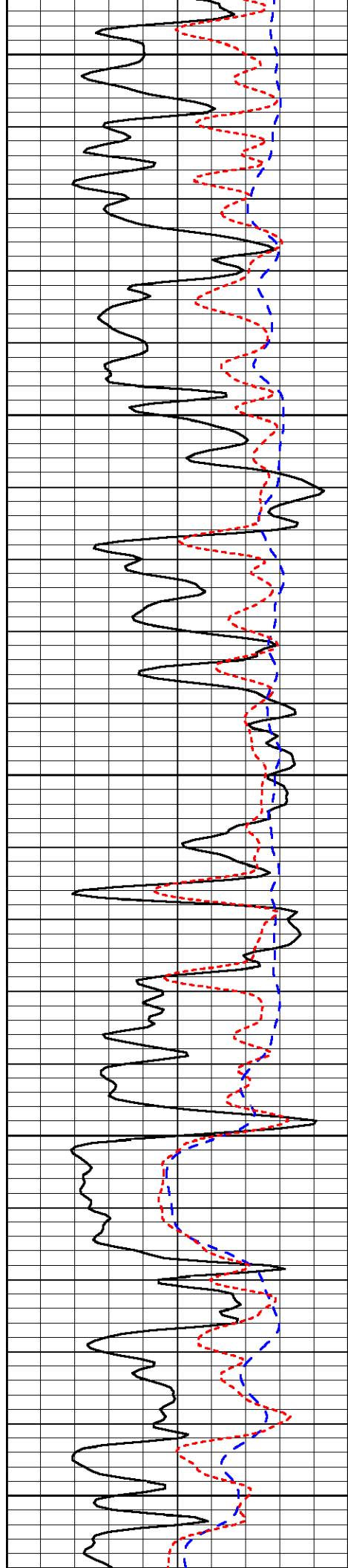


-73

-73

-73

-72



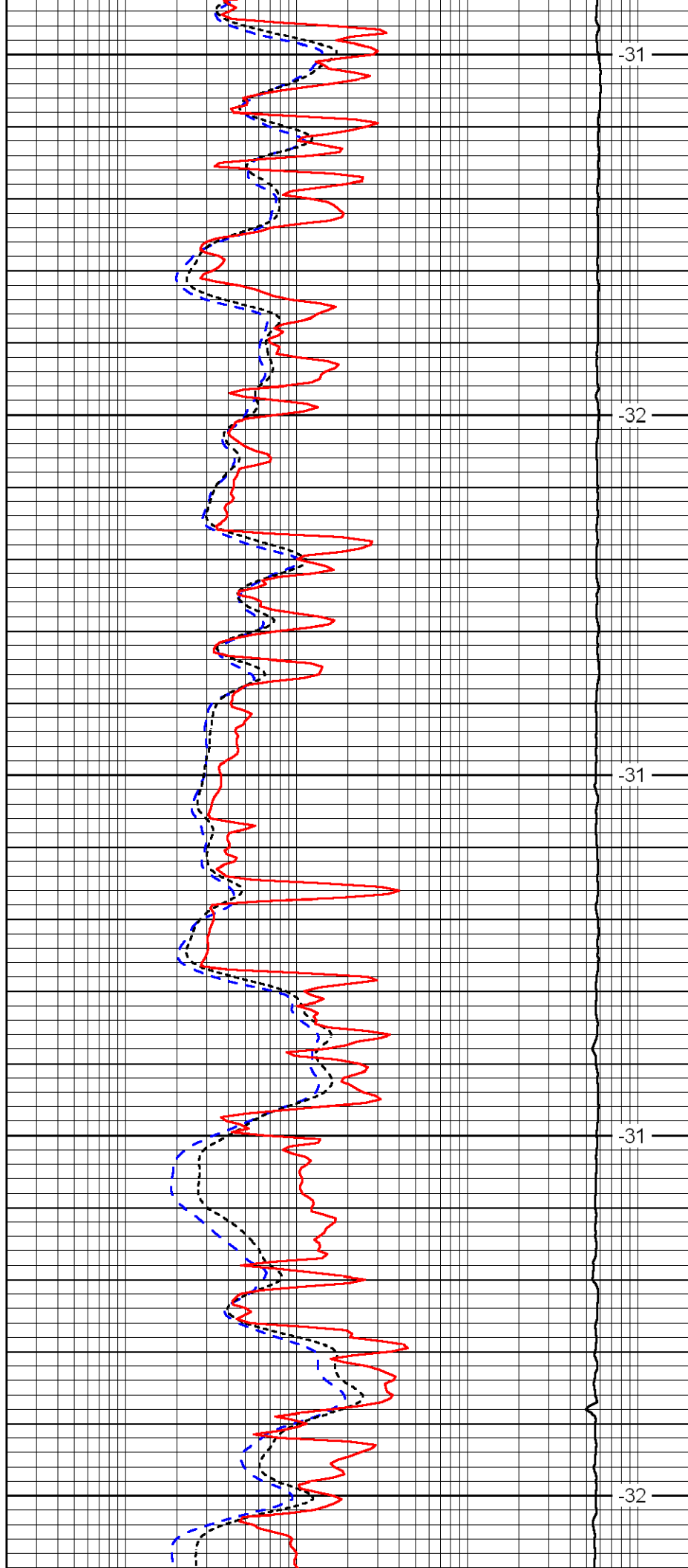
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3300

3350

3400

3450



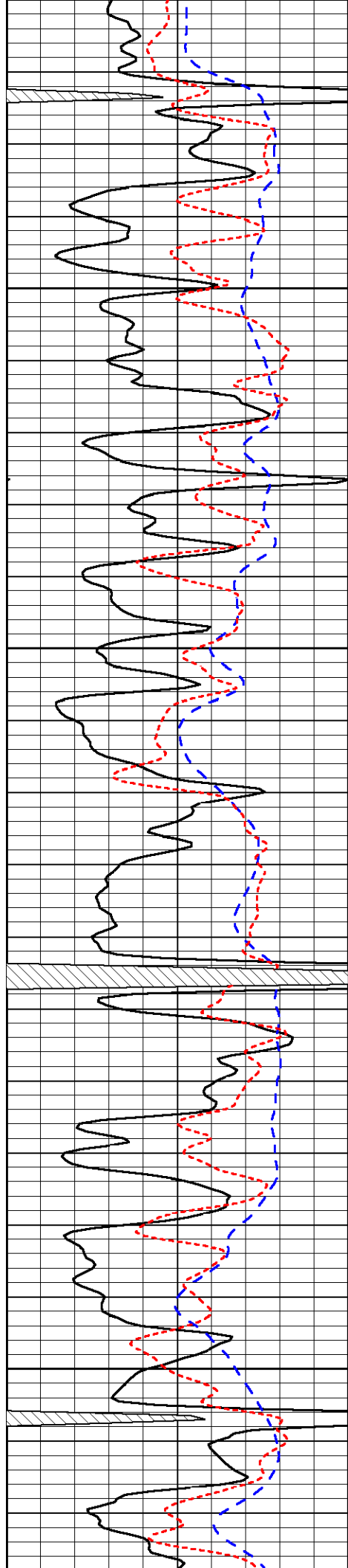
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-32

-31

-31

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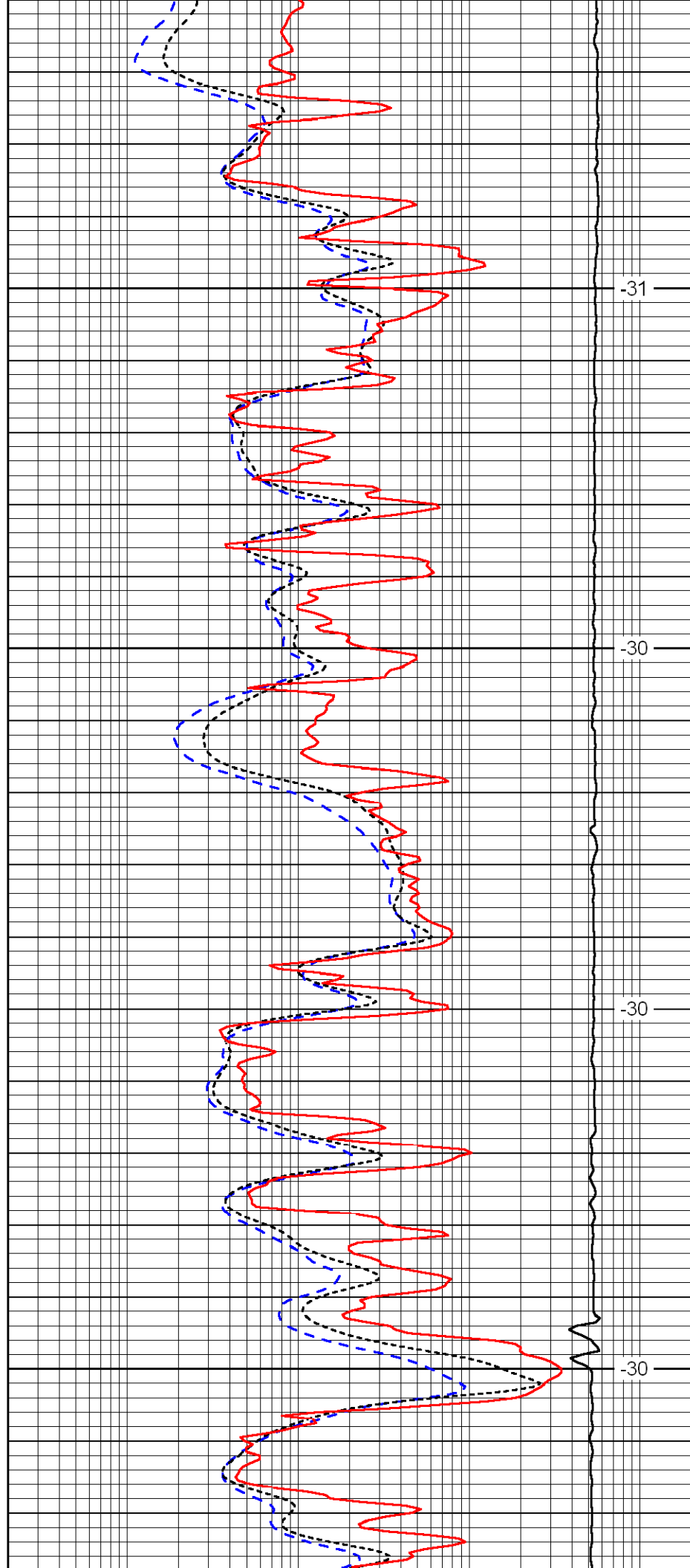


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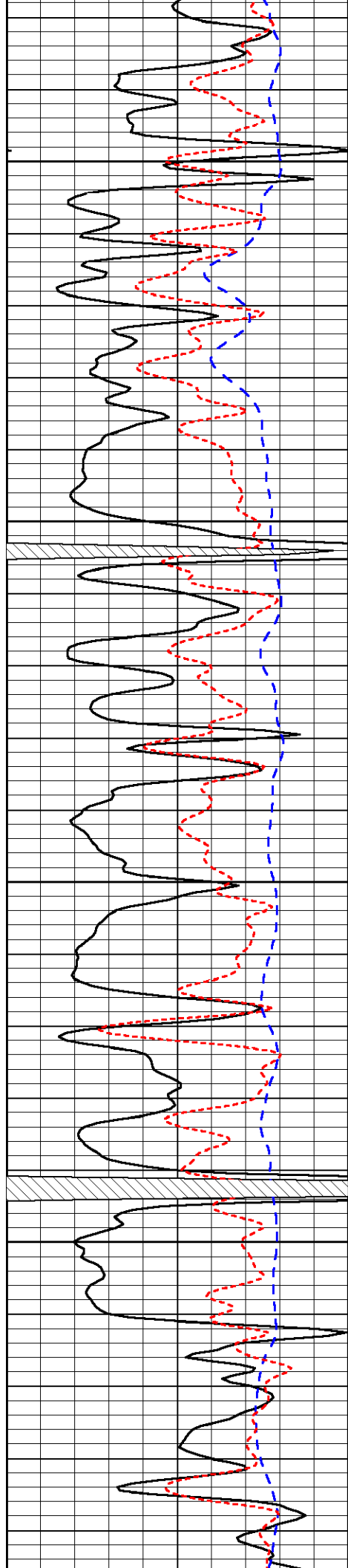


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-30

-30

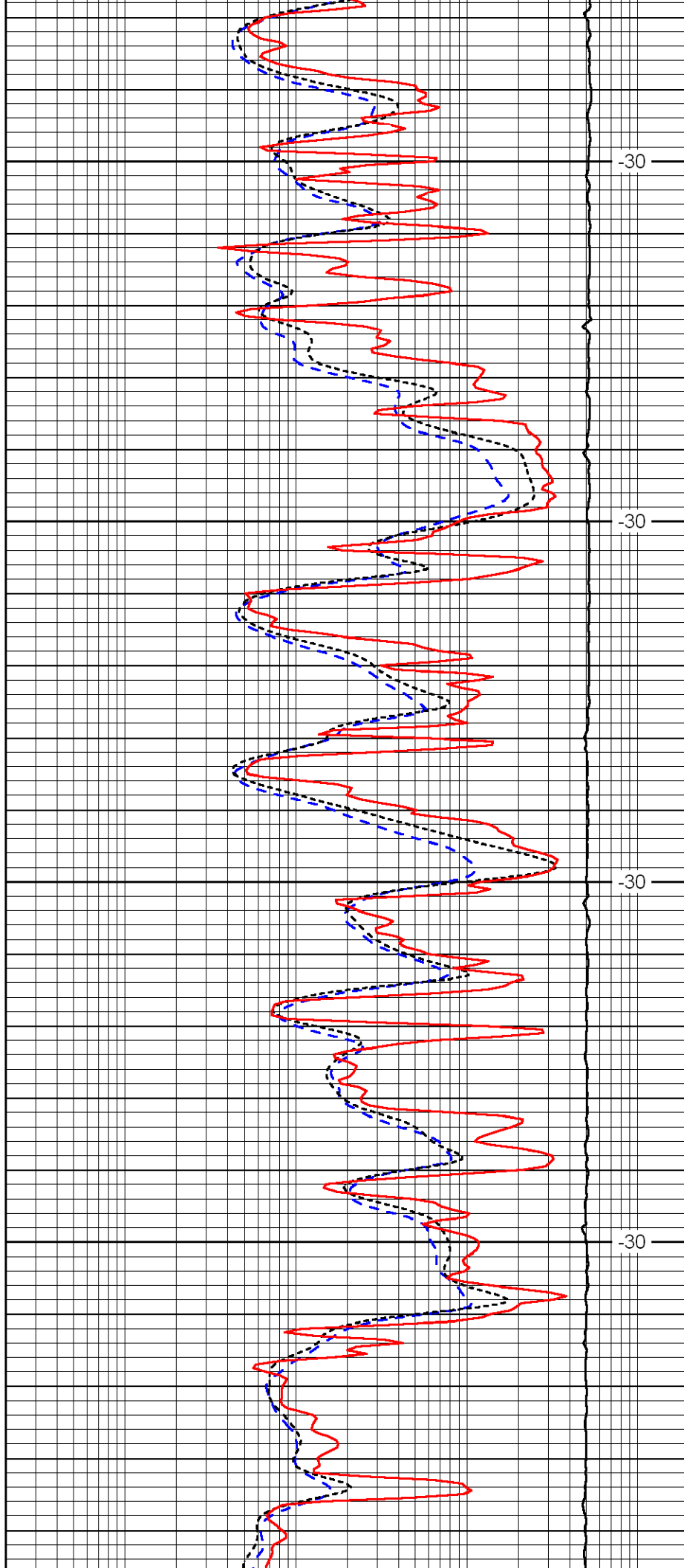


3700

3750

3800

3850

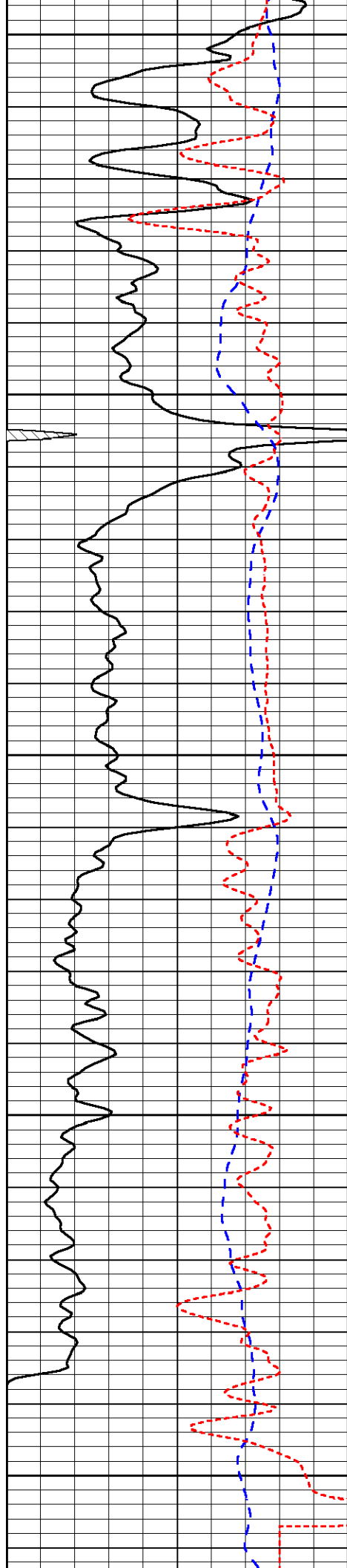


-30

-30

-30

-30



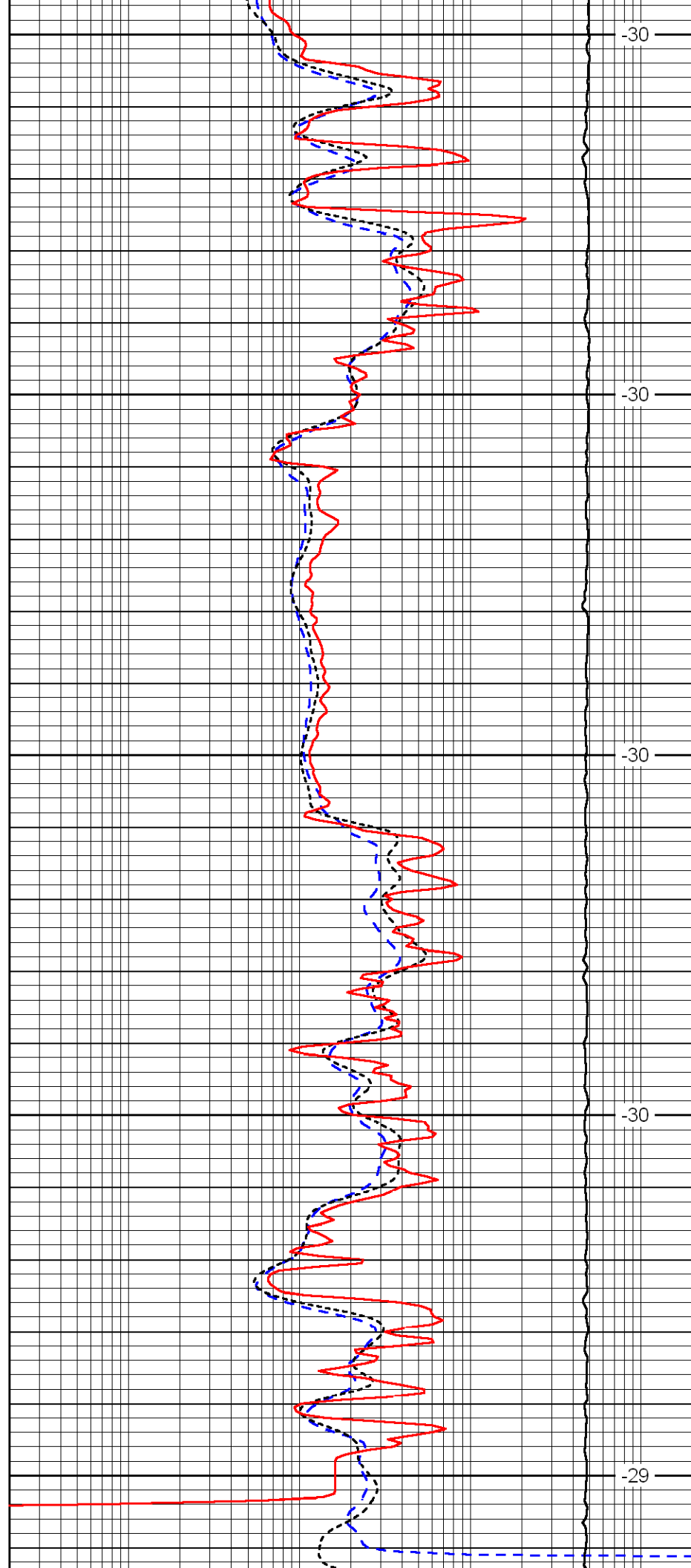
3900

3950

4000

4050

4100



-30

-30

-30

-30

-29

