

LOG-TECH



Dual Induction Log

DIGITAL LOG

(785) 625-3858

15-051-25,949-00-00

Company Murfin Drilling Co., Inc.

Well Orth Unit No. 1-4

Field Alwerth

County Ellis

State

Kansas

Location

2190' FSL & 1400' FWL

Other Services
CNL/CDL
MEL/BHCS

Sec: 4

Twp: 14 S

Rge: 19 W

Elevation

Permanent Datum Ground Level Elevation 2261
Log Measured From Kelly Bushing 5 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

K.B. 2266
D.F. 2261
G.L. 2261

Date

1/28/2010

Run Number

One

Depth Driller

4020

Depth Logger

4021

Bottom Logged Interval

4020

Top Log Interval

0

Casing Driller

8.625 @ 219

Casing Logger

218

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

8,300

Density / Viscosity

9.0 50

pH / Fluid Loss

10.5 6.8

Source of Sample

Flowline

Rm @ Meas. Temp

.95 @ 50

Rmf @ Meas. Temp

.71 @ 50

Rmc @ Meas. Temp

1.28 @ 50

Source of Rmf / Rmc

Charts

Rm @ BHT

.40 @ 118

Operating Rig Time

5 Hours

Max Rec. Temp. F

118

Equipment Number

4

Location

Hays

Recorded By

K. Bange

Witnessed By

Tim Priest

<<< 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

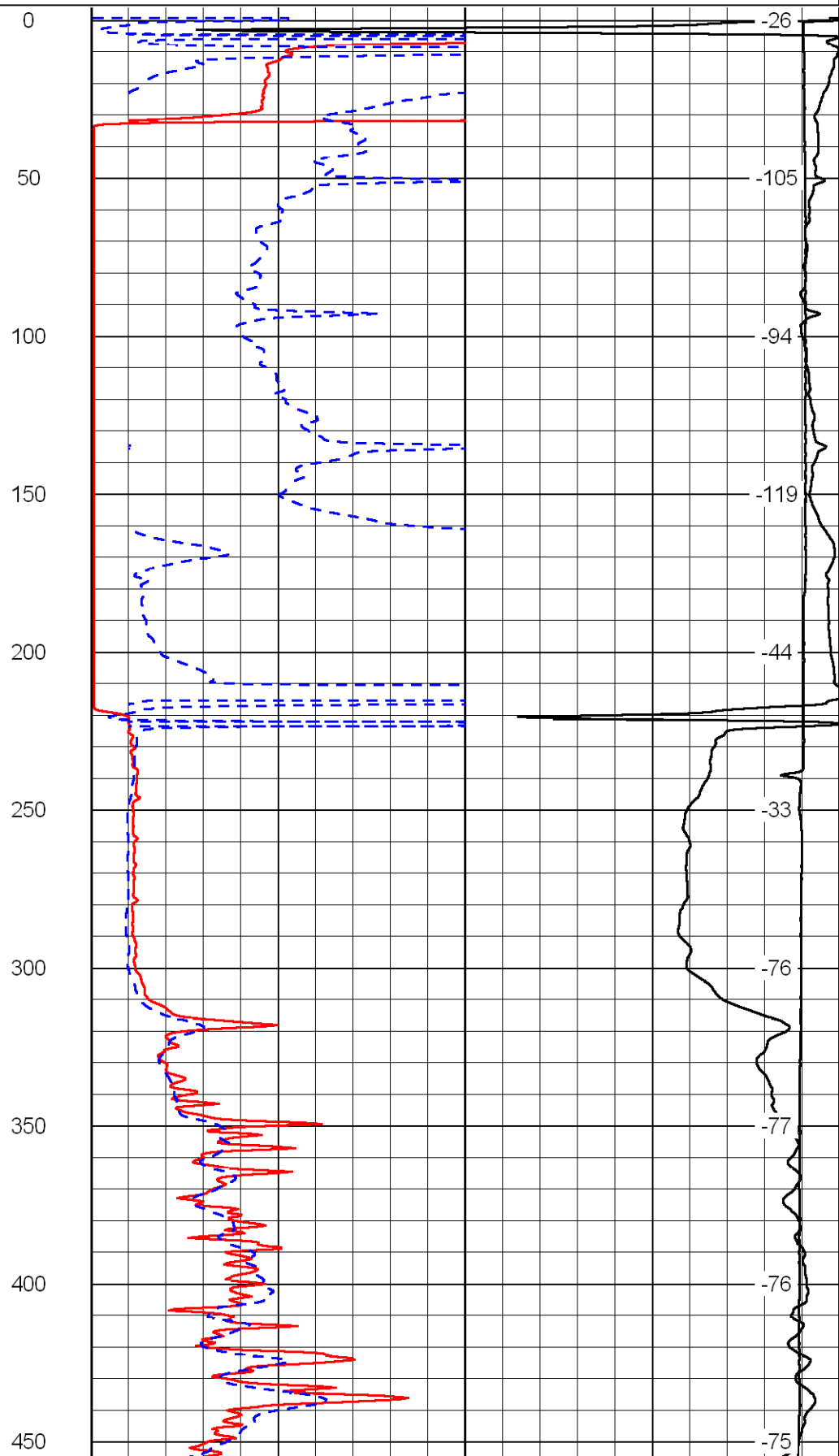
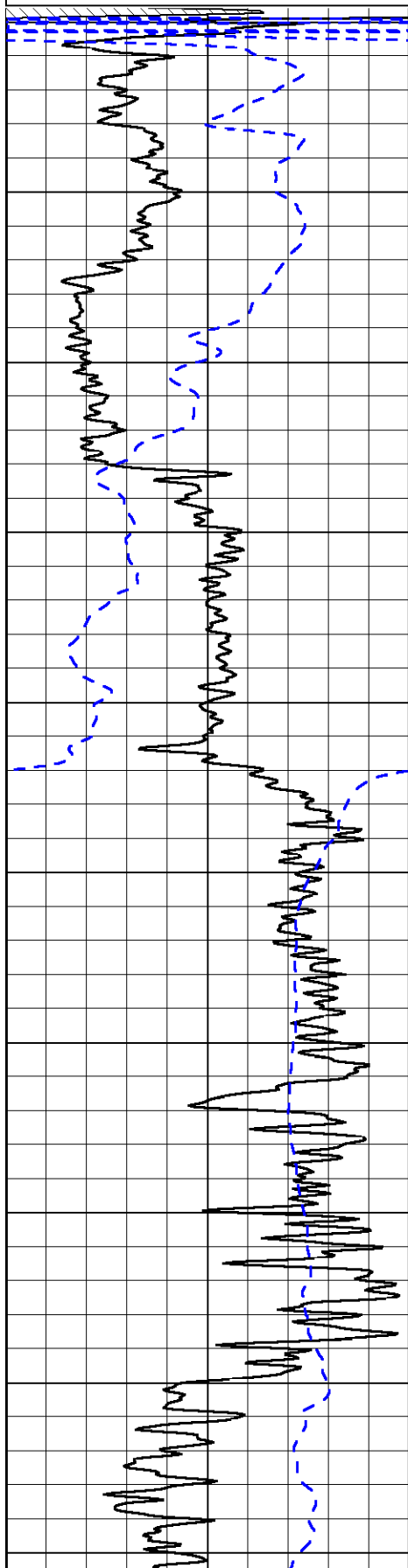
Hays, 183 Bypass to Golf Course rd, W on Golf Course to 180th rd, N 1/2, E into

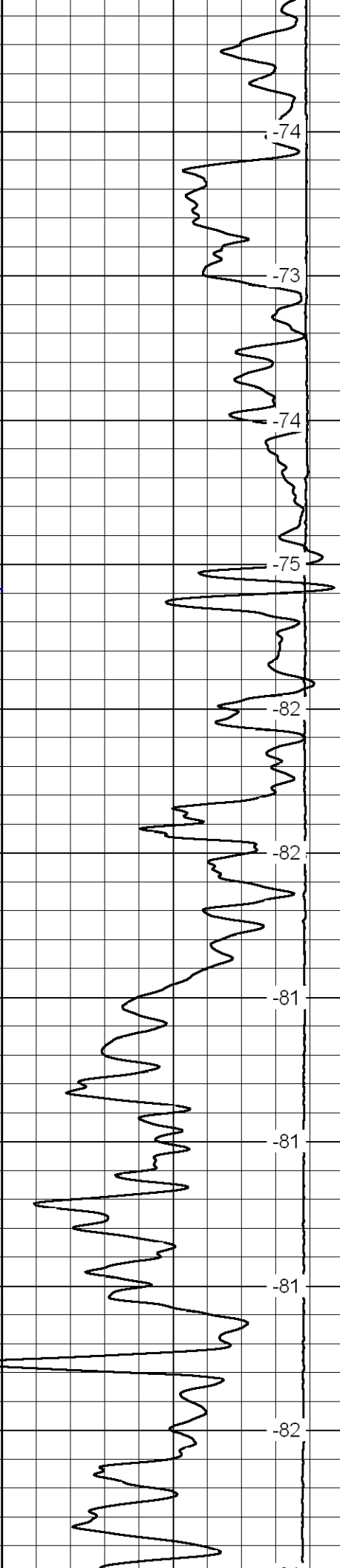
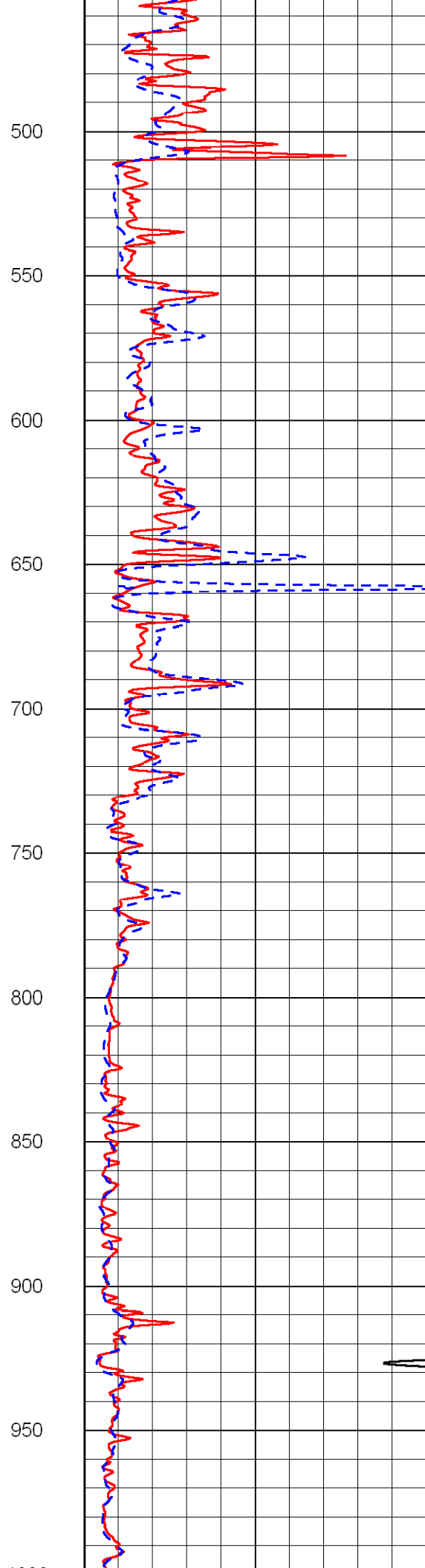
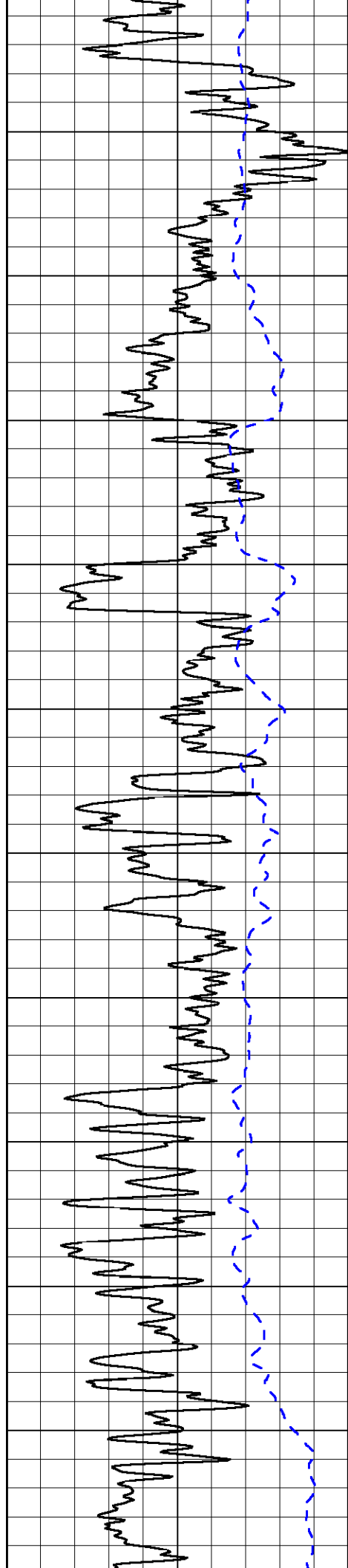
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Presentation Format: dil2in
Dataset Creation: Thu Jan 28 12:23:26 2010
Charted by: Depth in Feet scaled 1:600

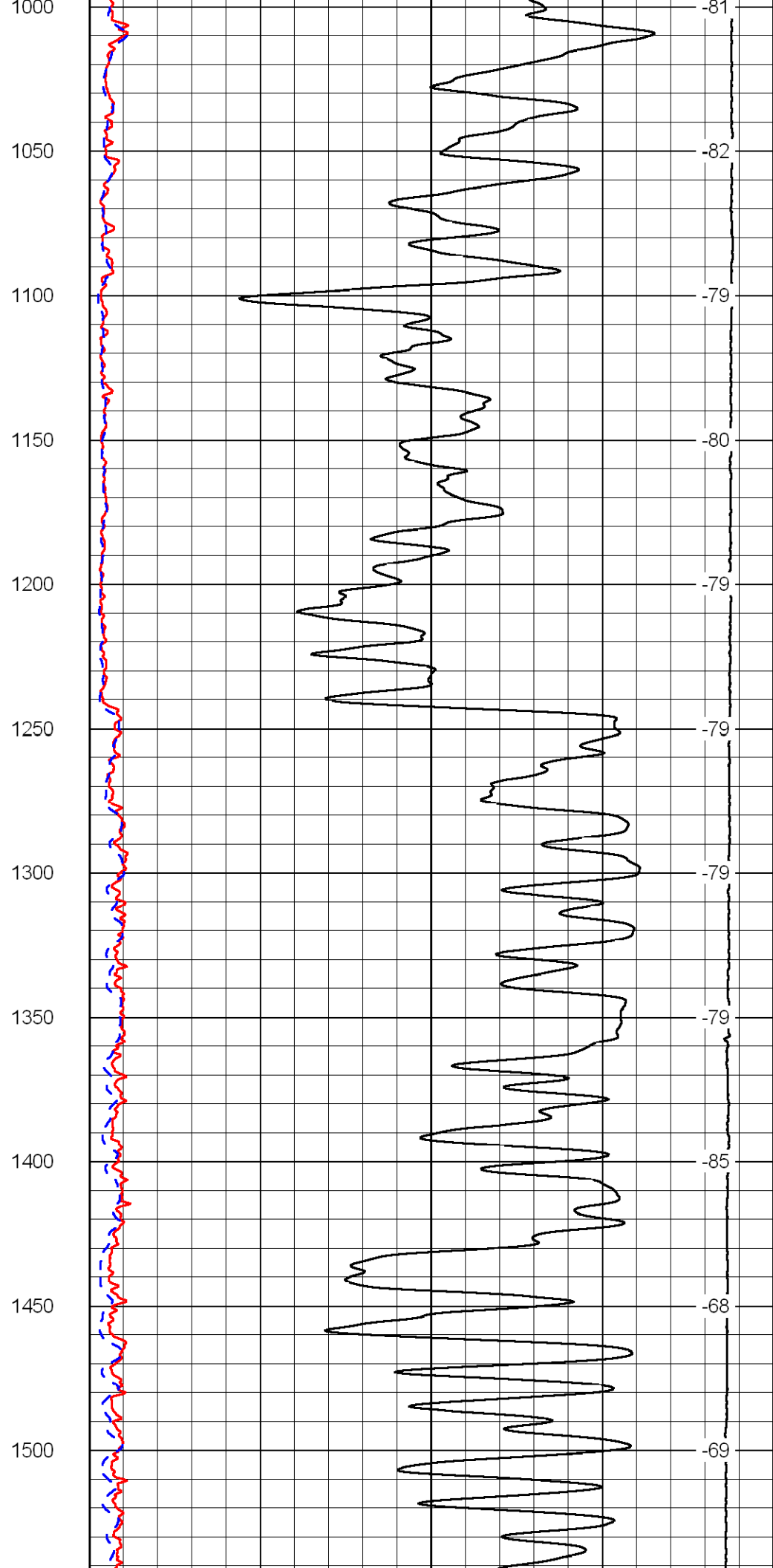
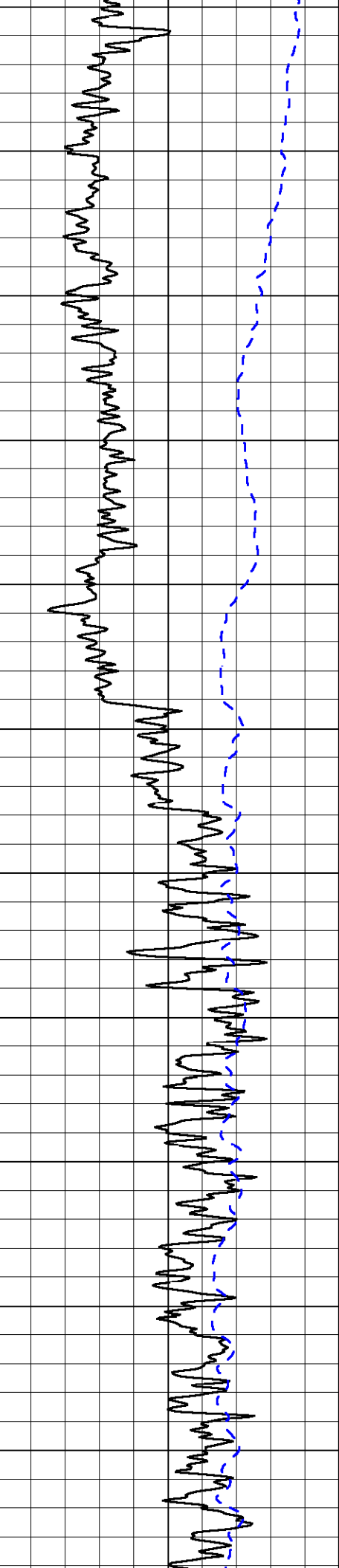
0	Gamma Ray	150
-200	SP (MV)	0

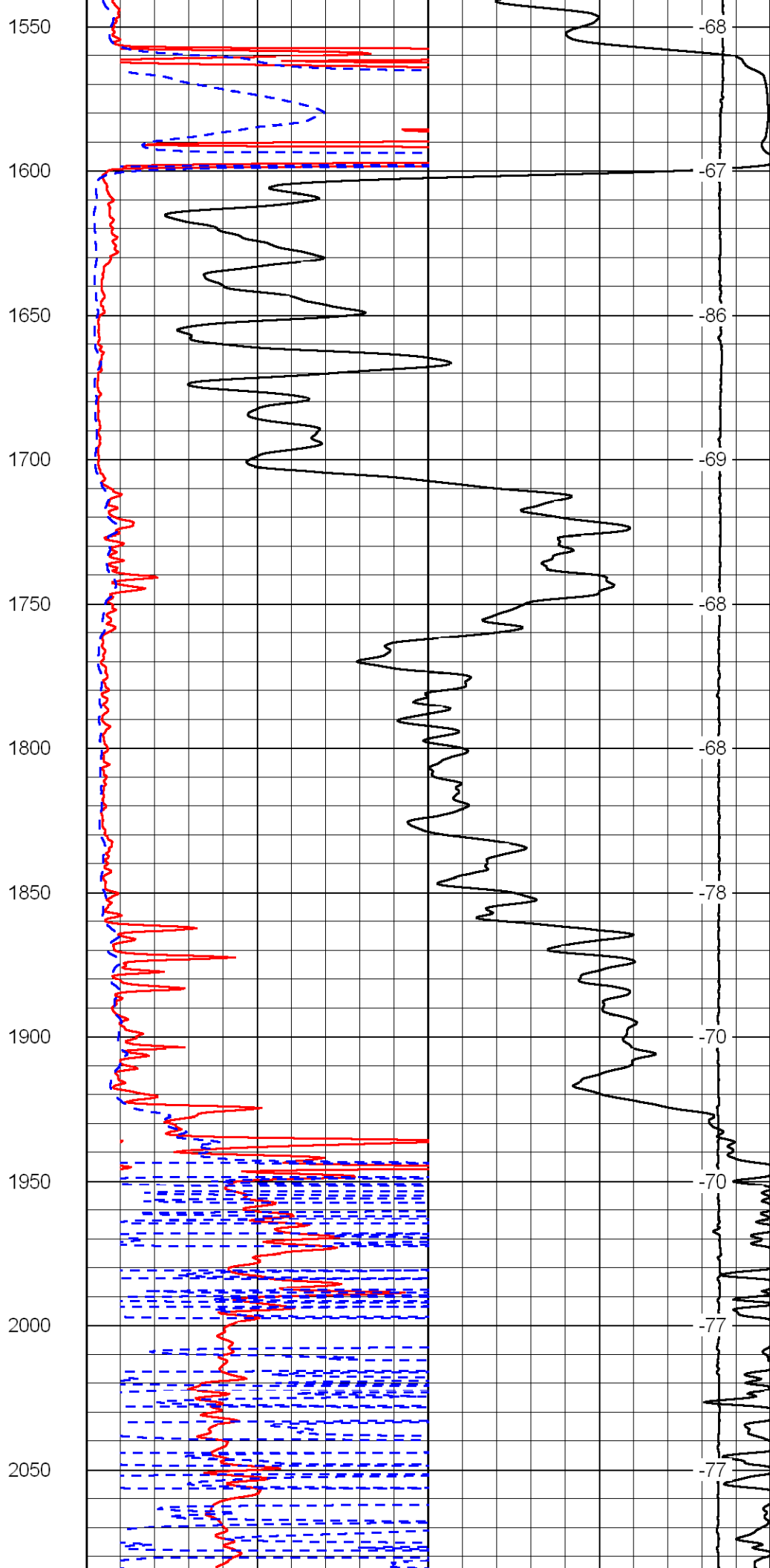
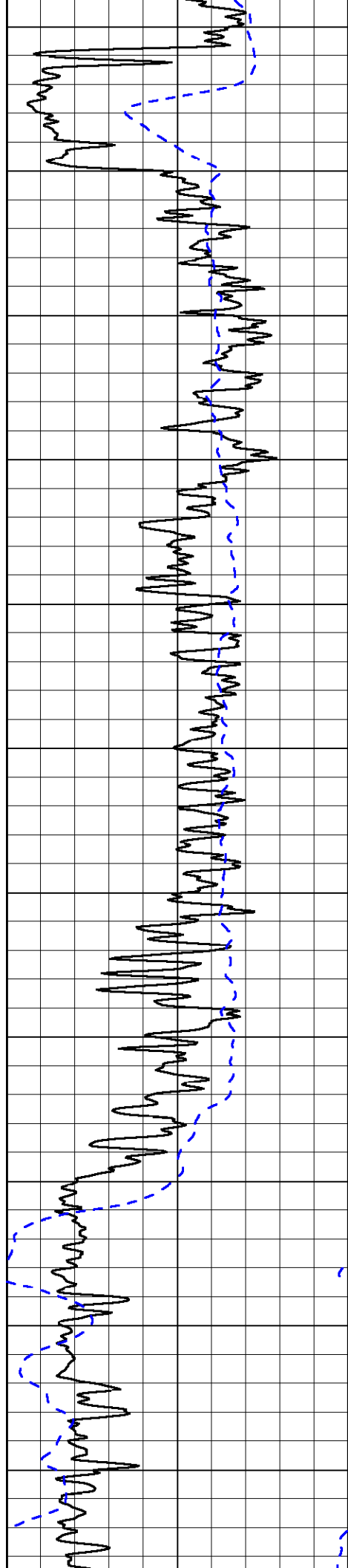
0	Shallow Resistivity (Ohm-m)	50
0	Deep Resistivity (Ohm-m)	50
1000	Conductivity (mmho/m)	0
15000	Line Tension (lb)	0
50	Shallow Resistivity (Ohm-m)	500
50	Deep Resistivity (Ohm-m)	500

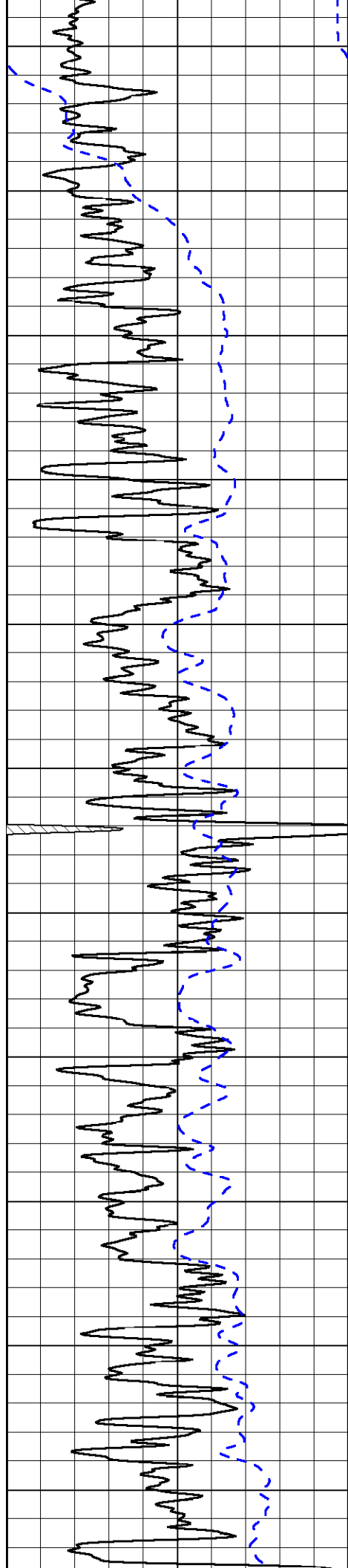
LSPD
(ft/min)



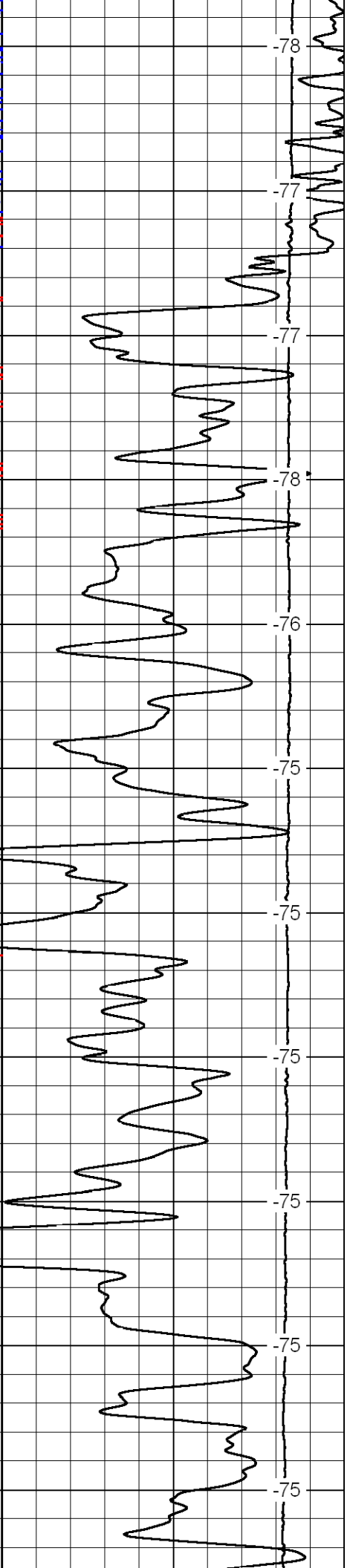
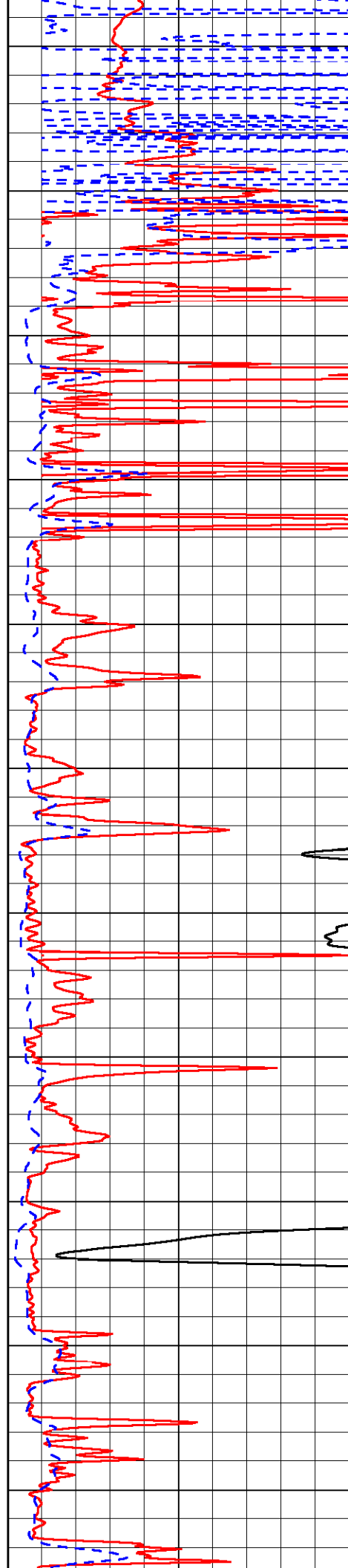


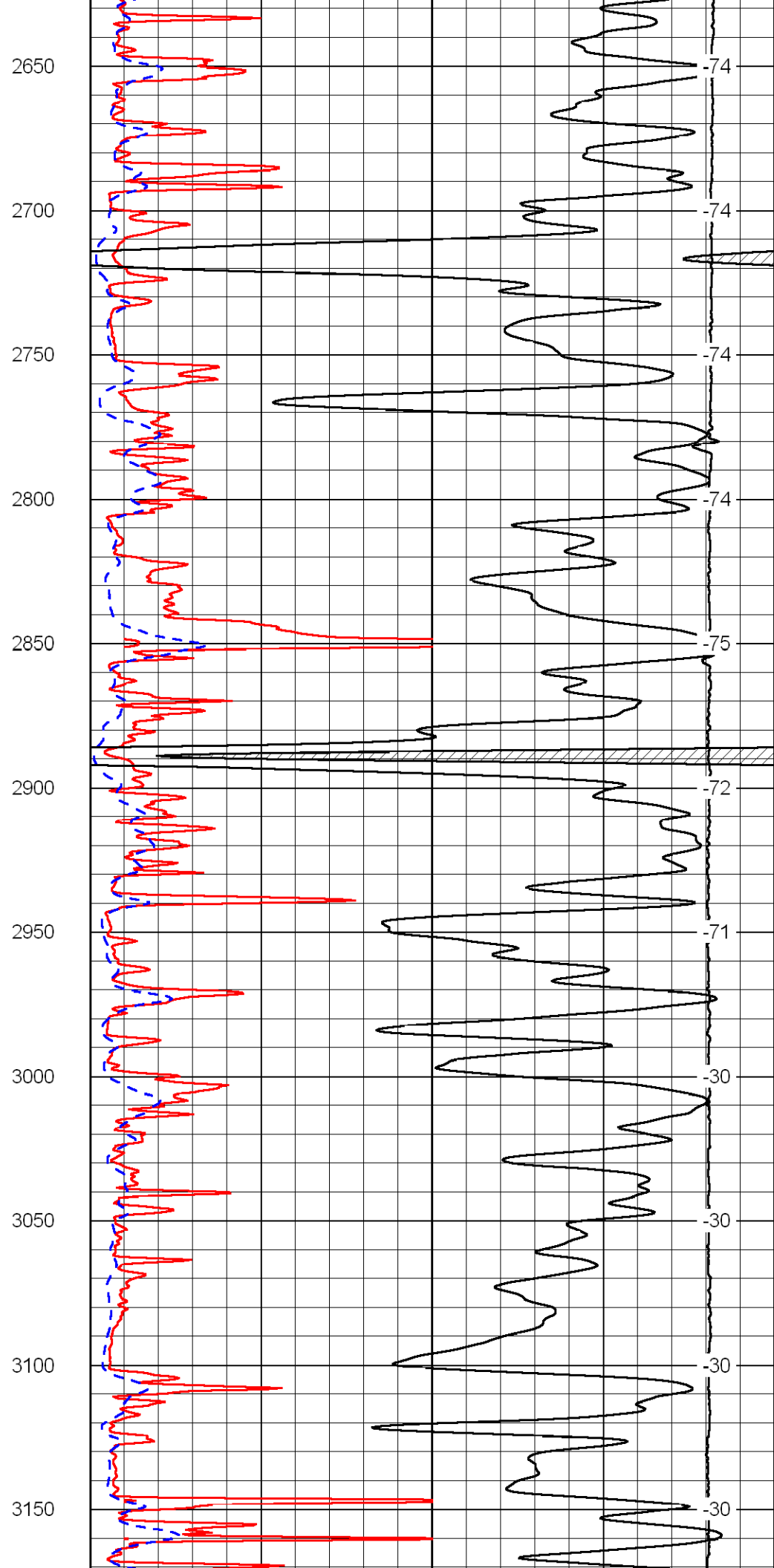
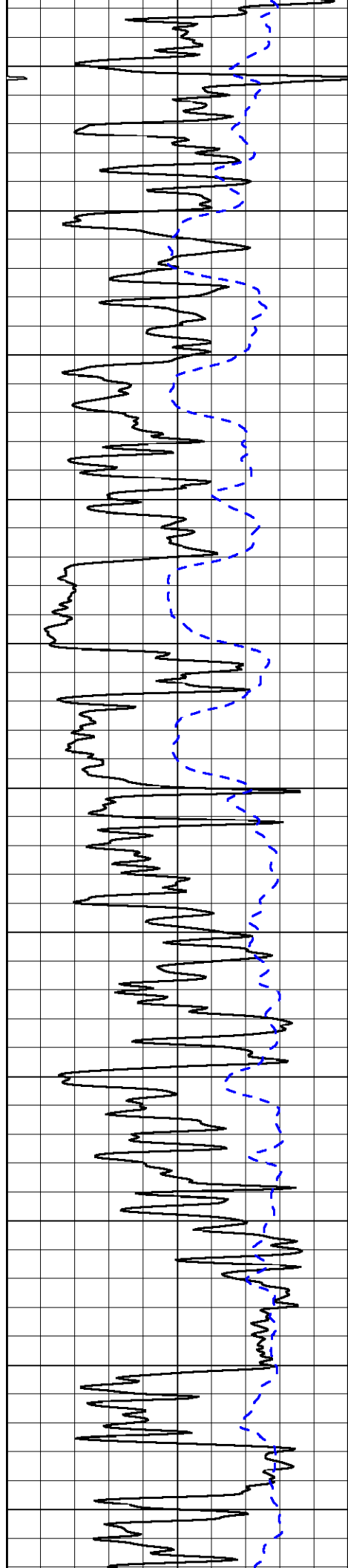


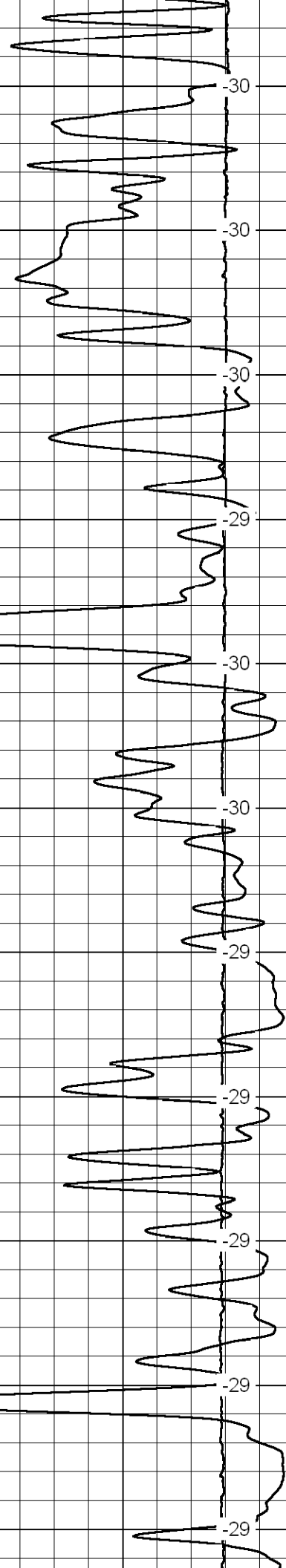
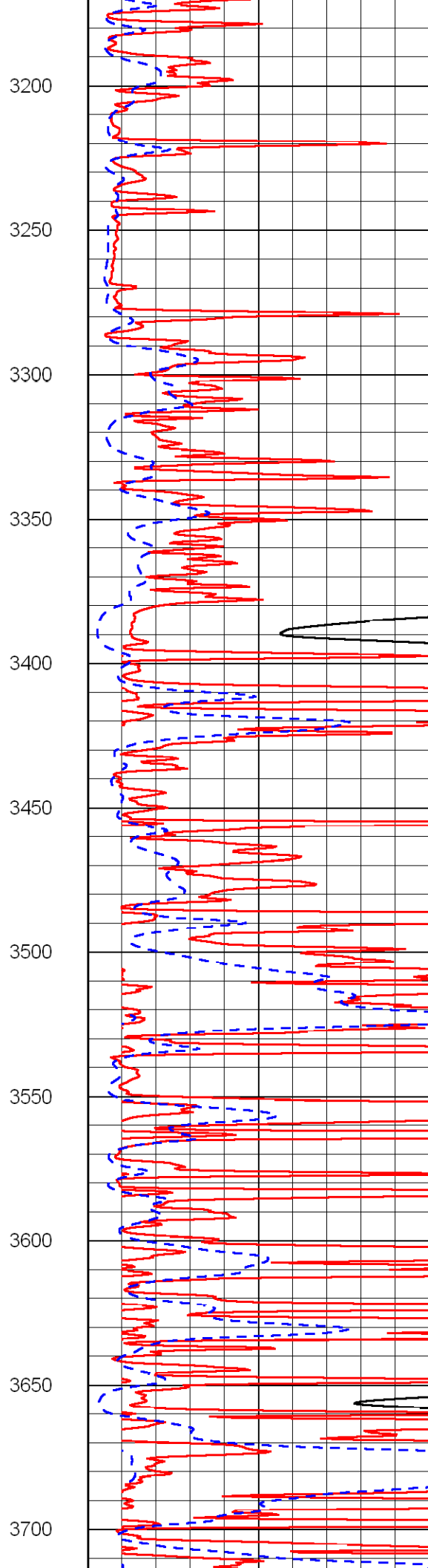
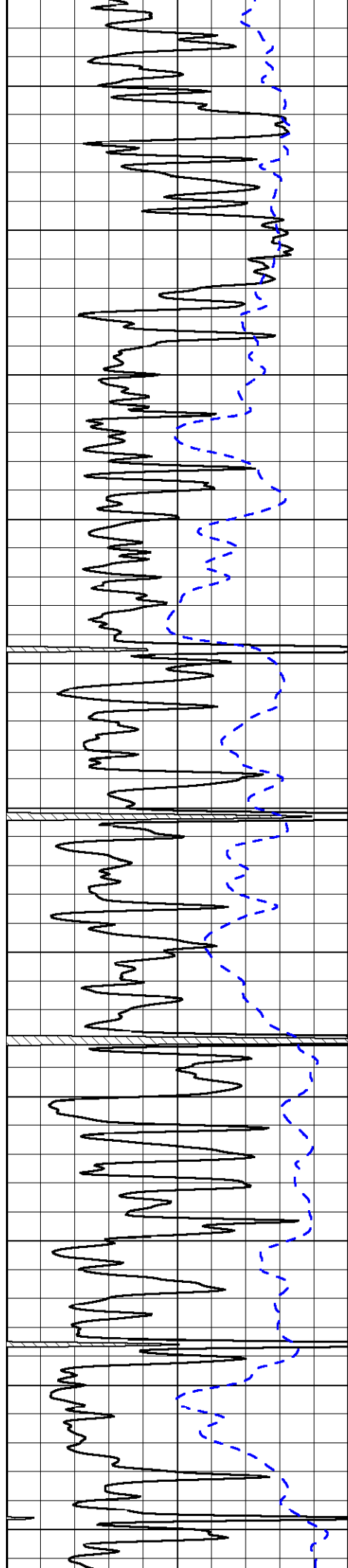


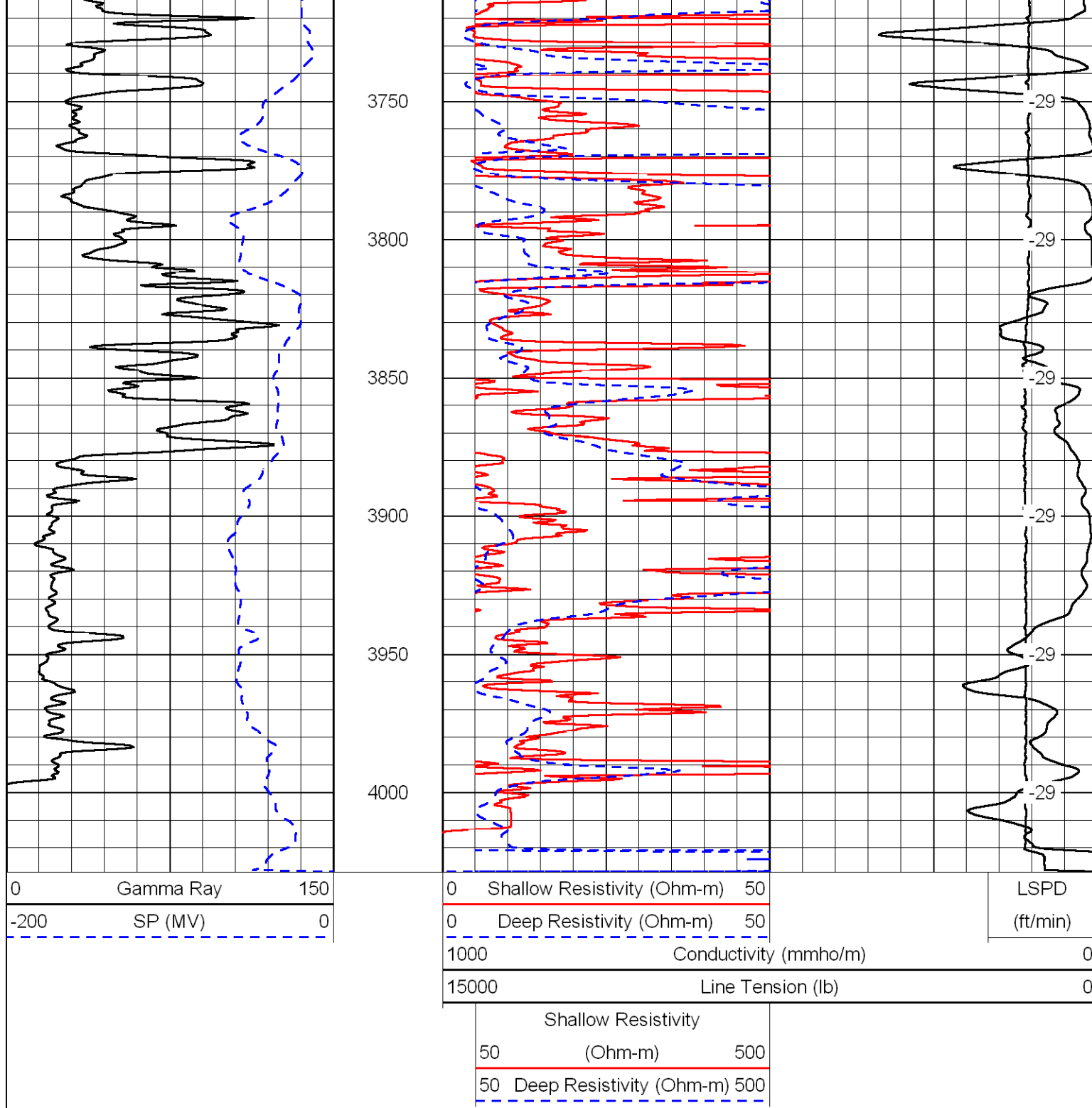


2100
2150
2200
2250
2300
2350
2400
2450
2500
2550
2600

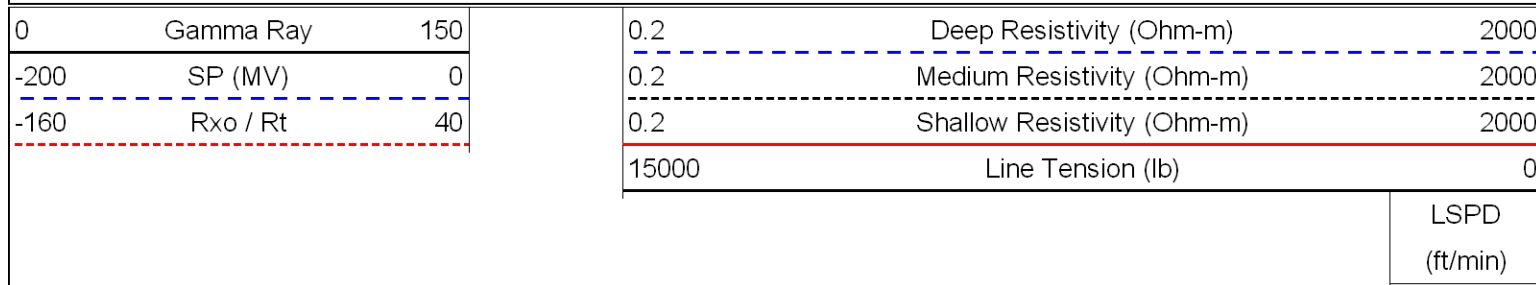


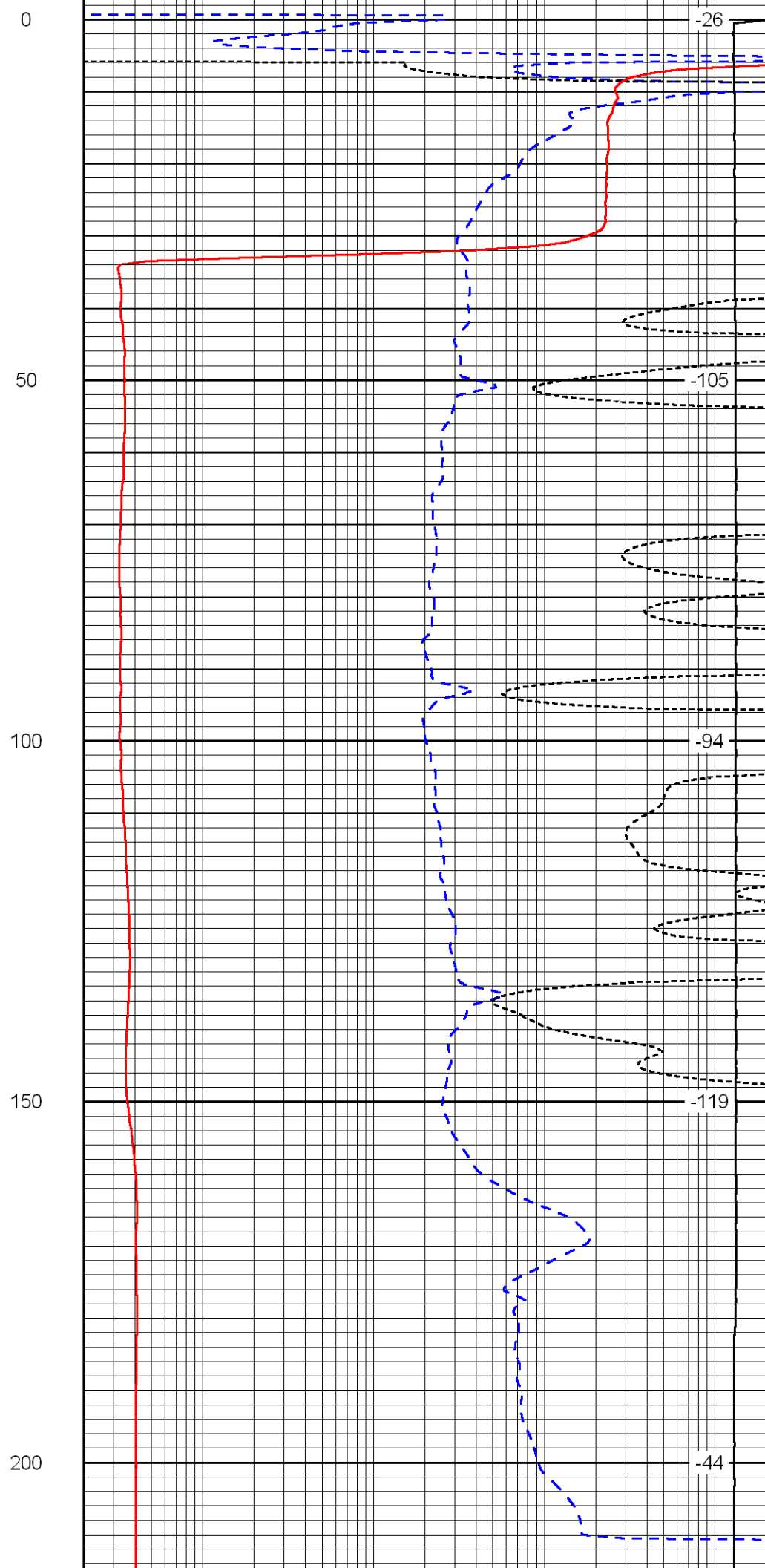
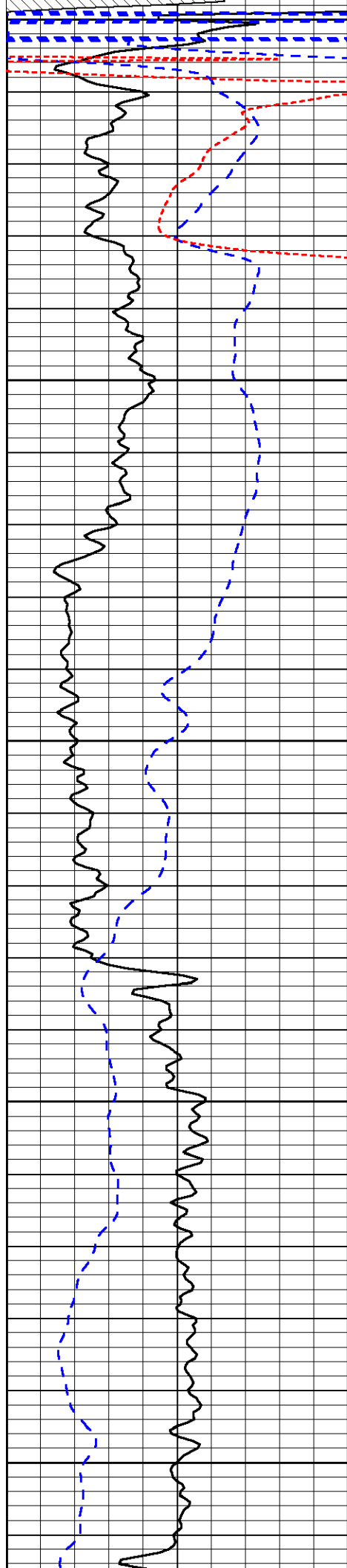


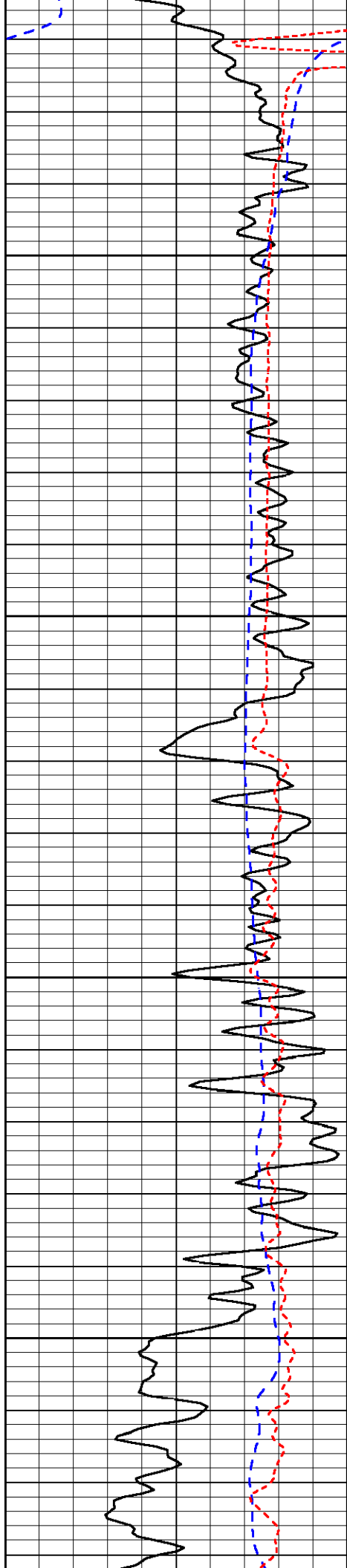




Database File: c:\warrior\data\murfin_orth unit no. 1-4\murfhd.db
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Presentation Format: dil
Dataset Creation: Thu Jan 28 12:23:26 2010
Charted by: Depth in Feet scaled 1:240





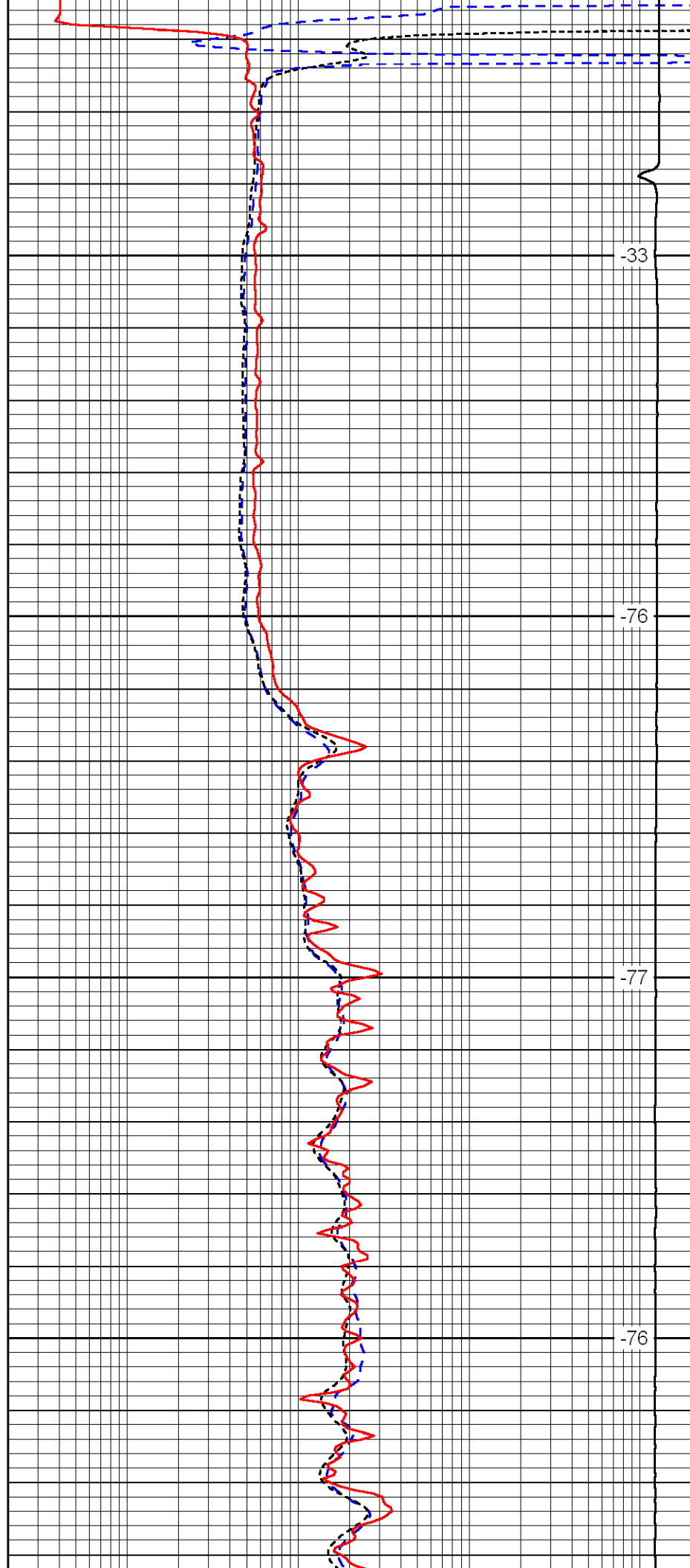


250

300

350

400

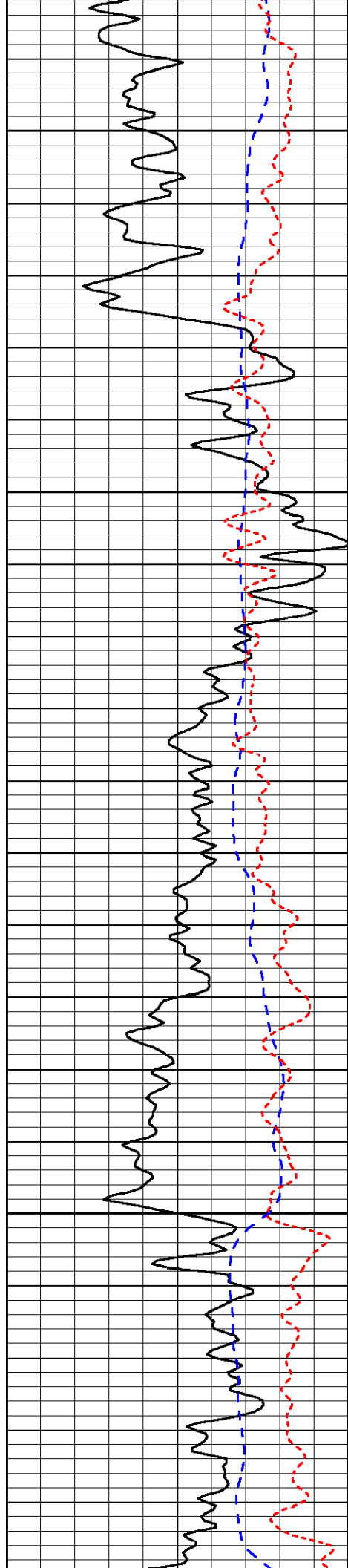


-33

-76

-77

-76



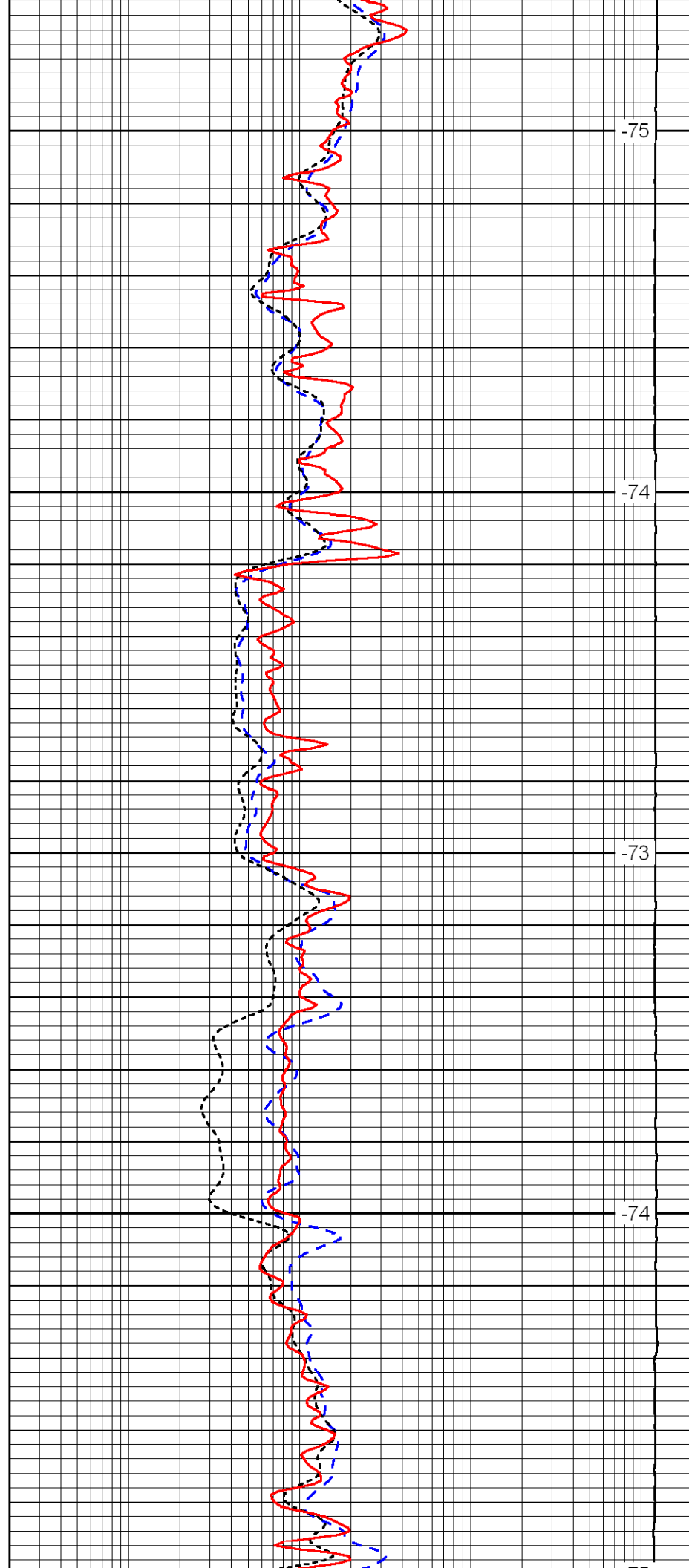
450

500

550

600

650



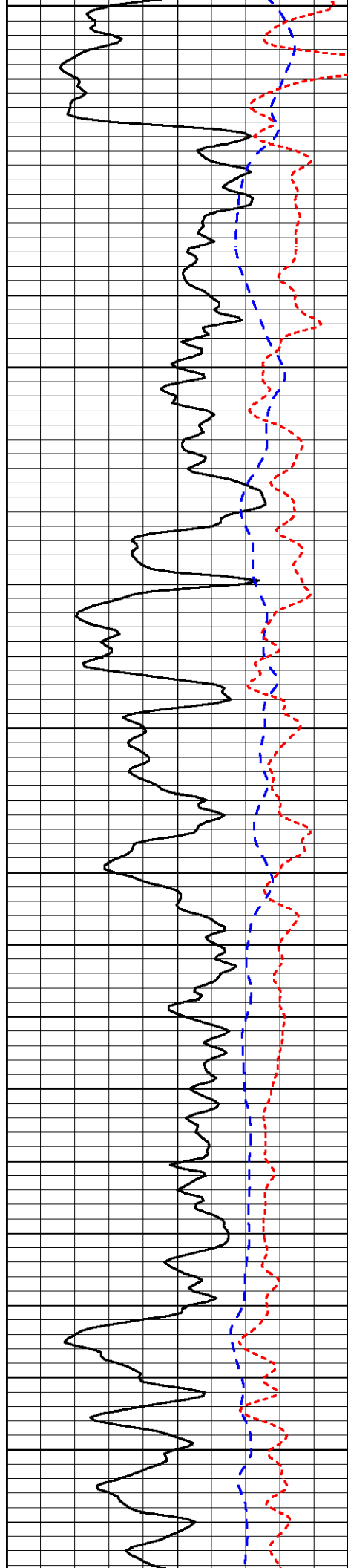
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-74

-73

-74

-75



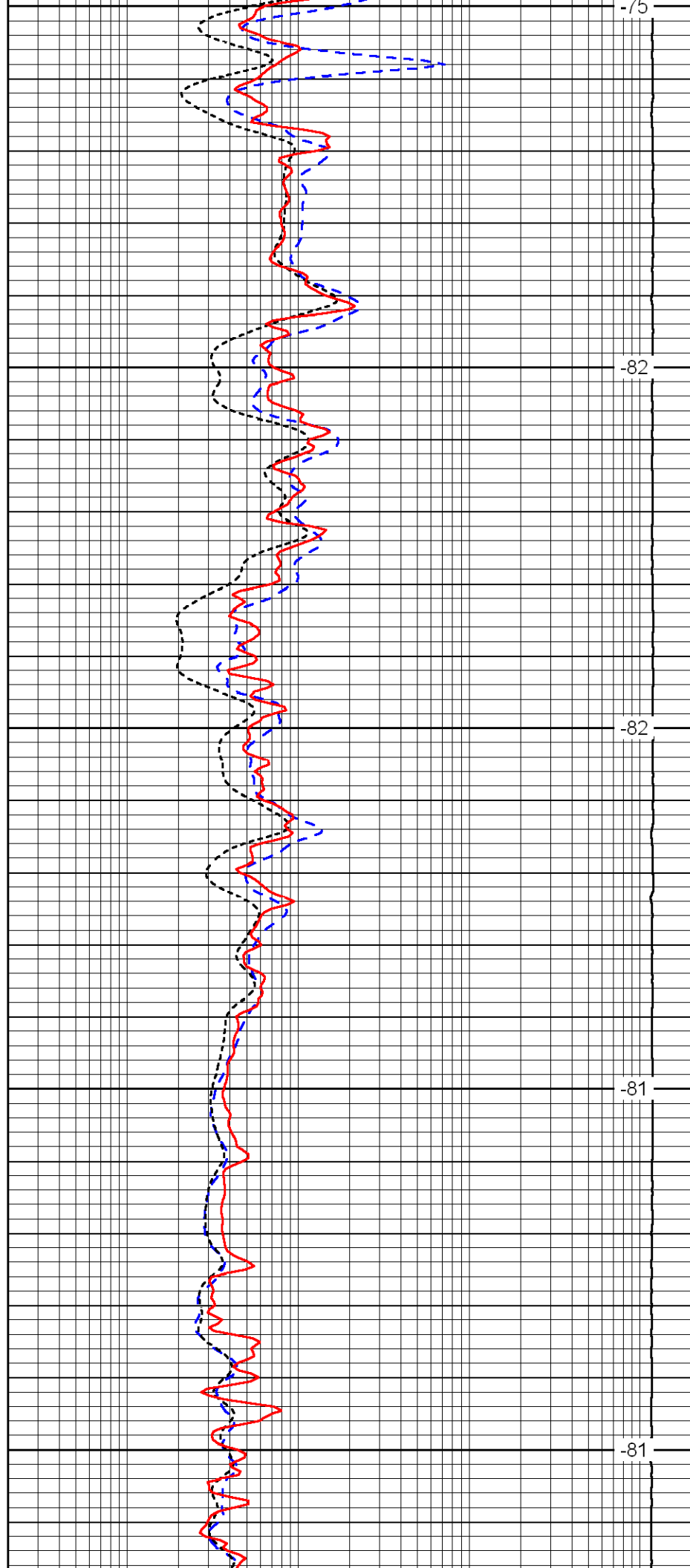
650

700

750

800

850



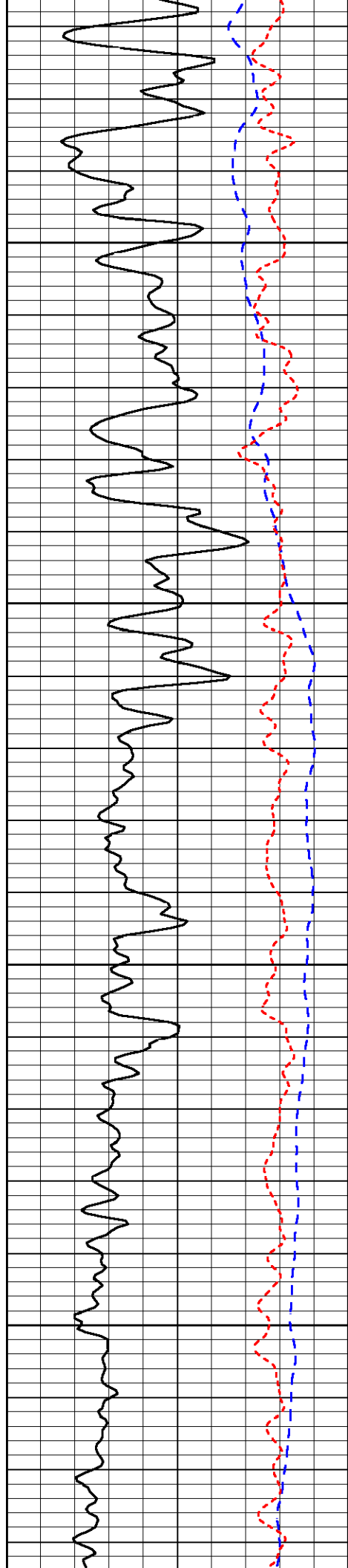
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-82

-82

-81

-81

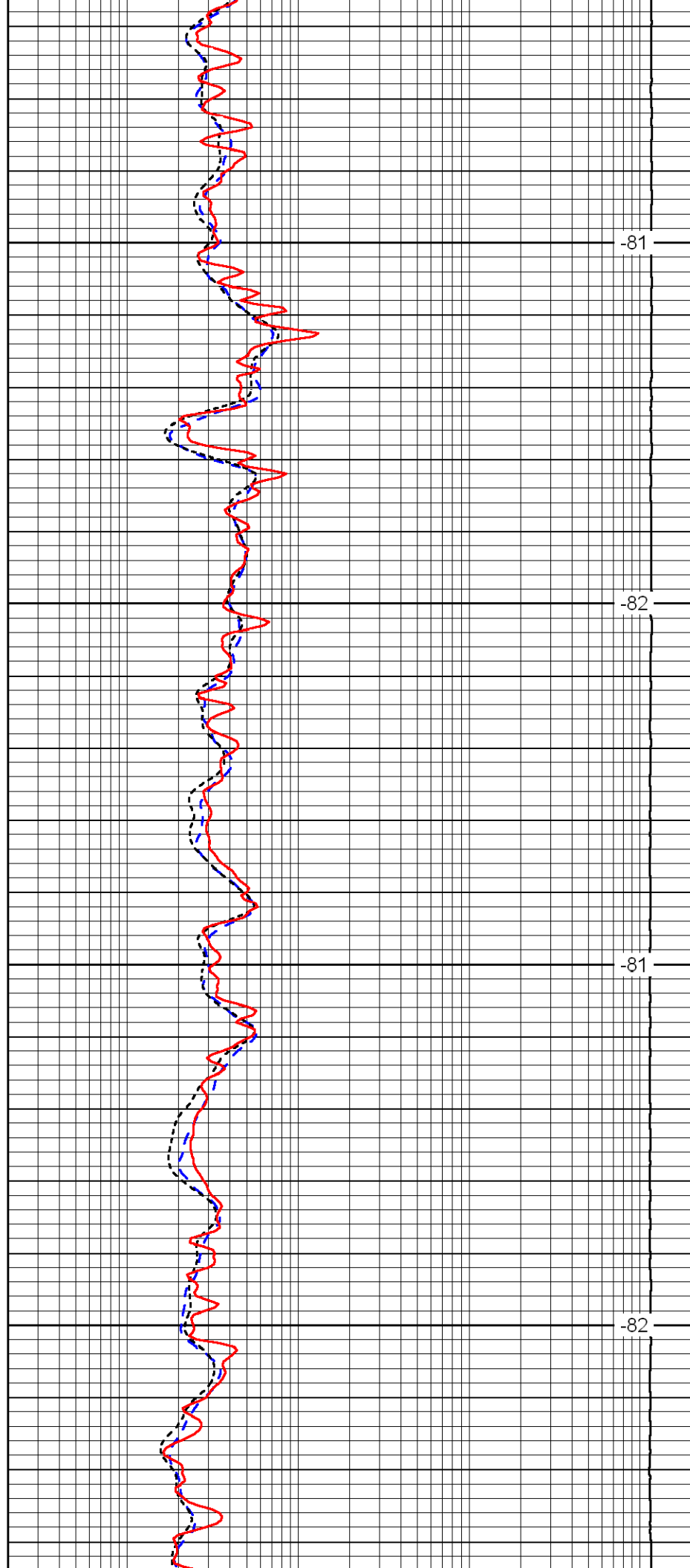


900

950

1000

1050

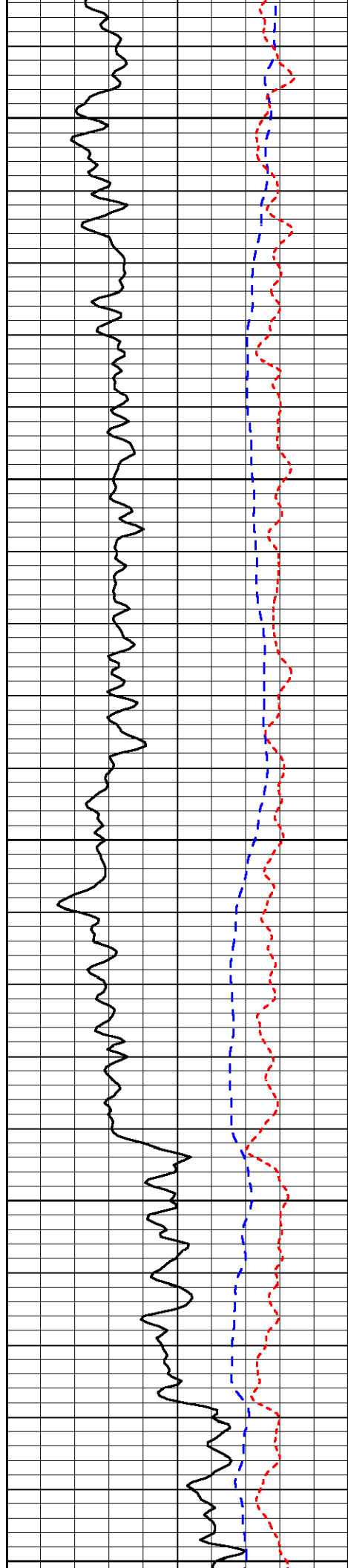


-81

-82

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-82



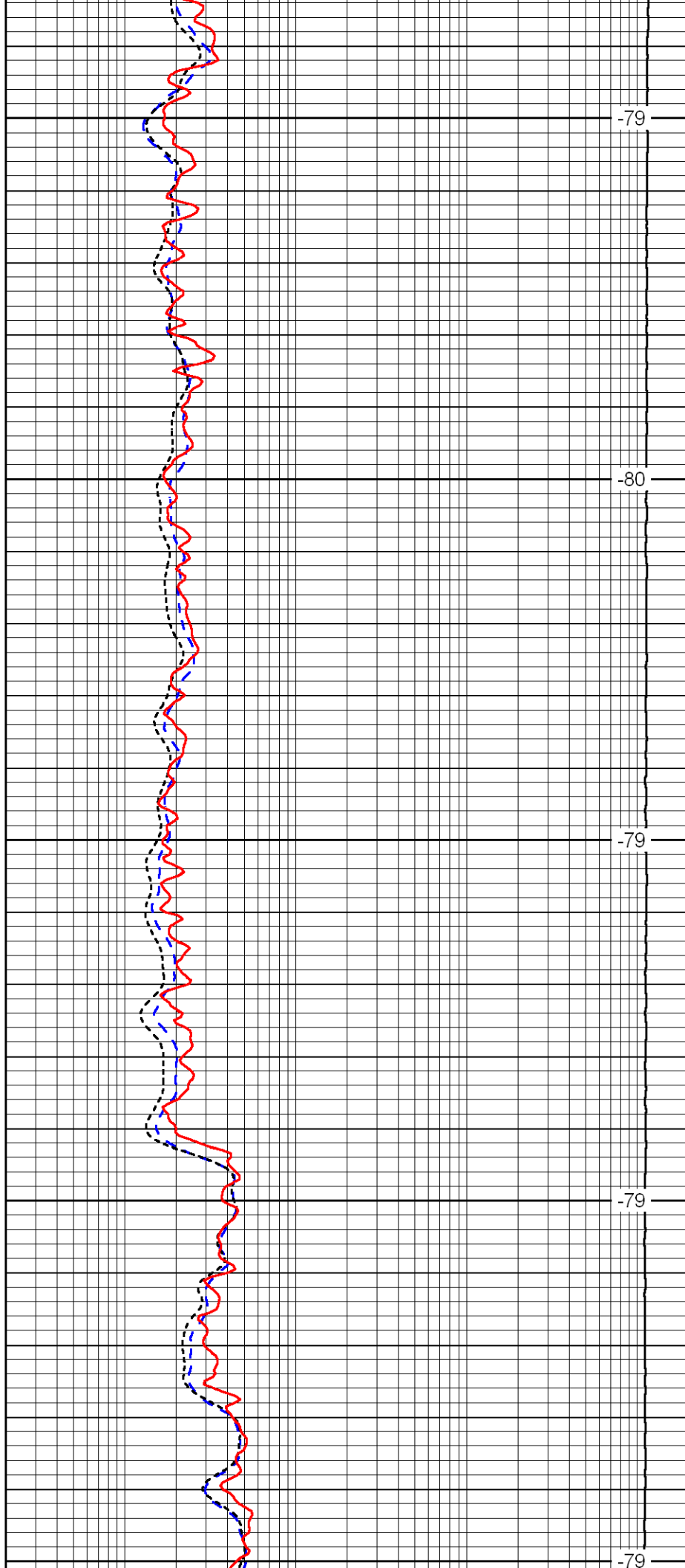
1100

1150

1200

1250

1300



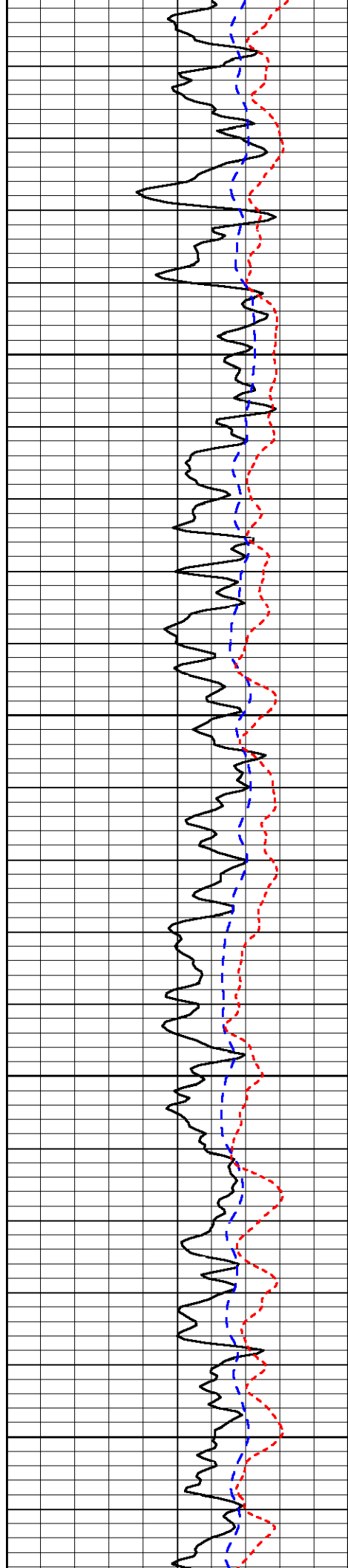
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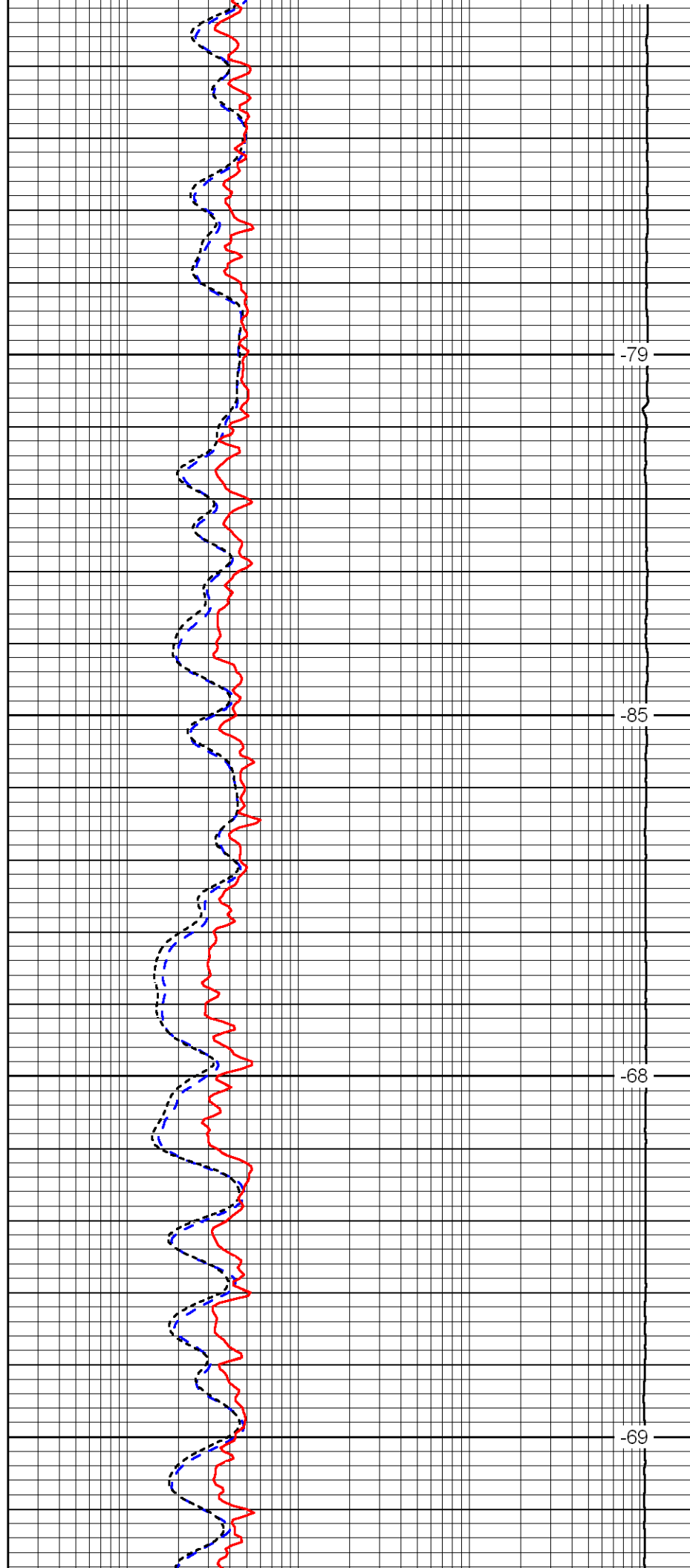


1350

1400

1450

1500

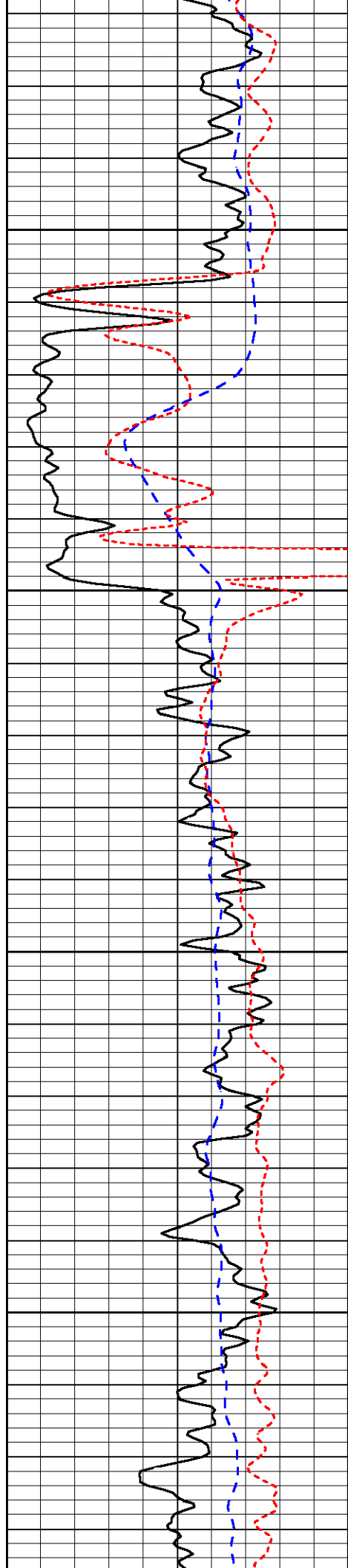


-79

-85

-68

-69



1550

1600

1650

1700

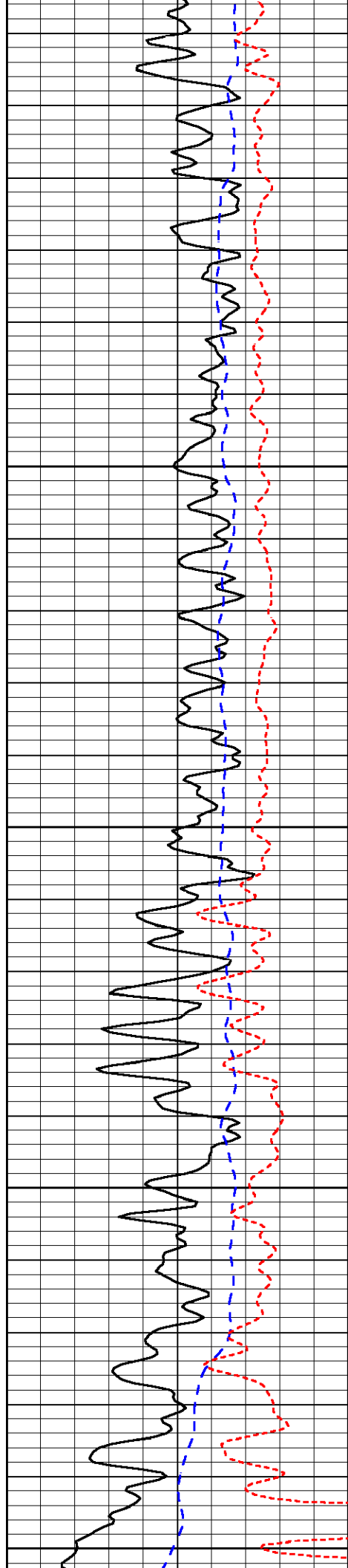


-68

-67

-86

-69



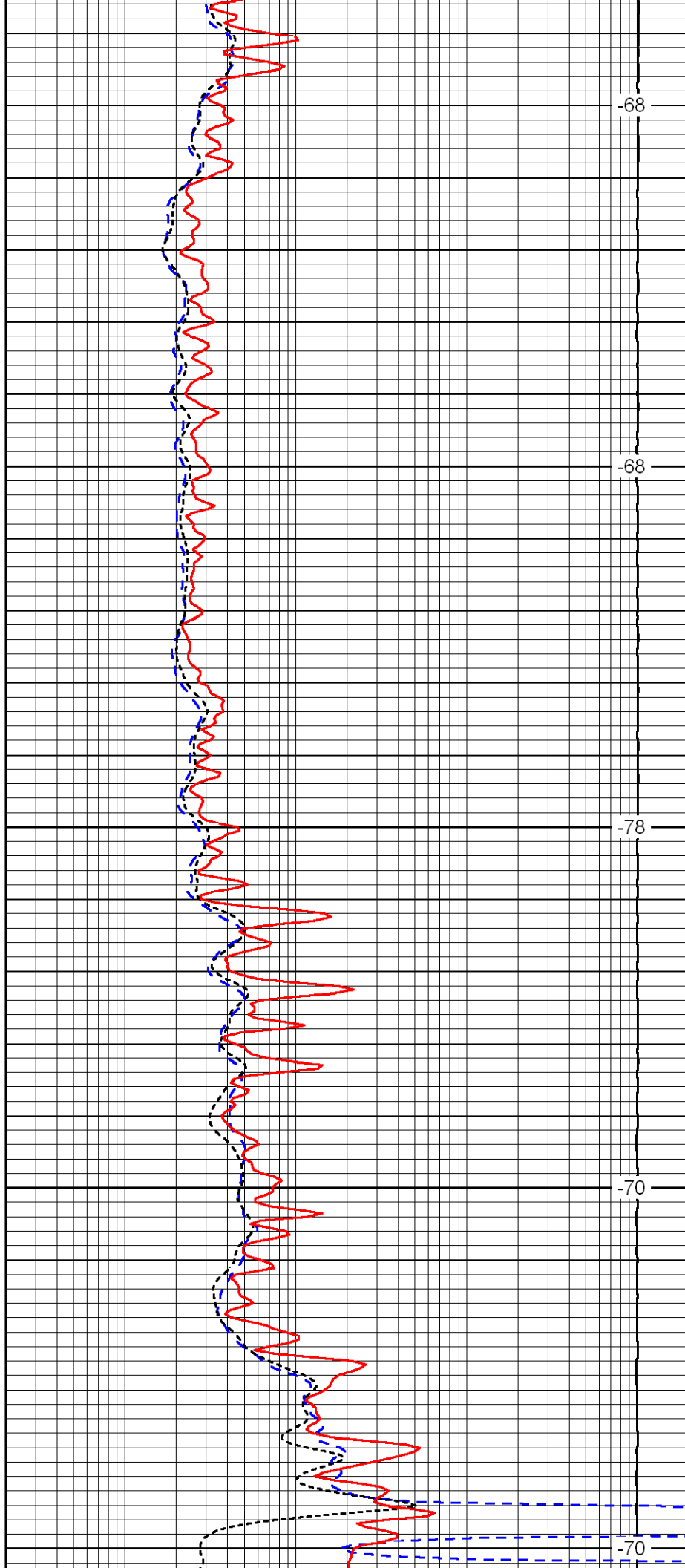
1750

1800

1850

1900

1950



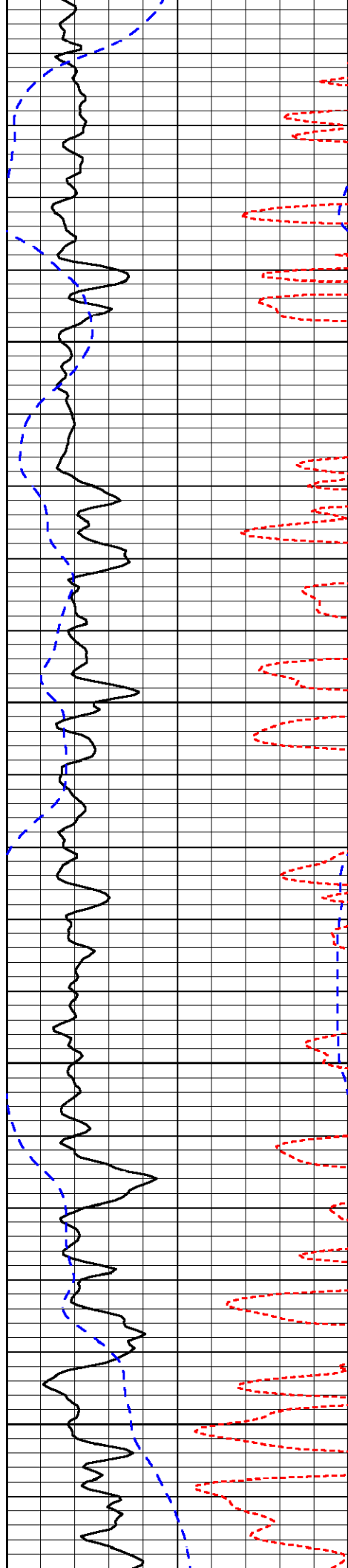
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-68

-78

-70

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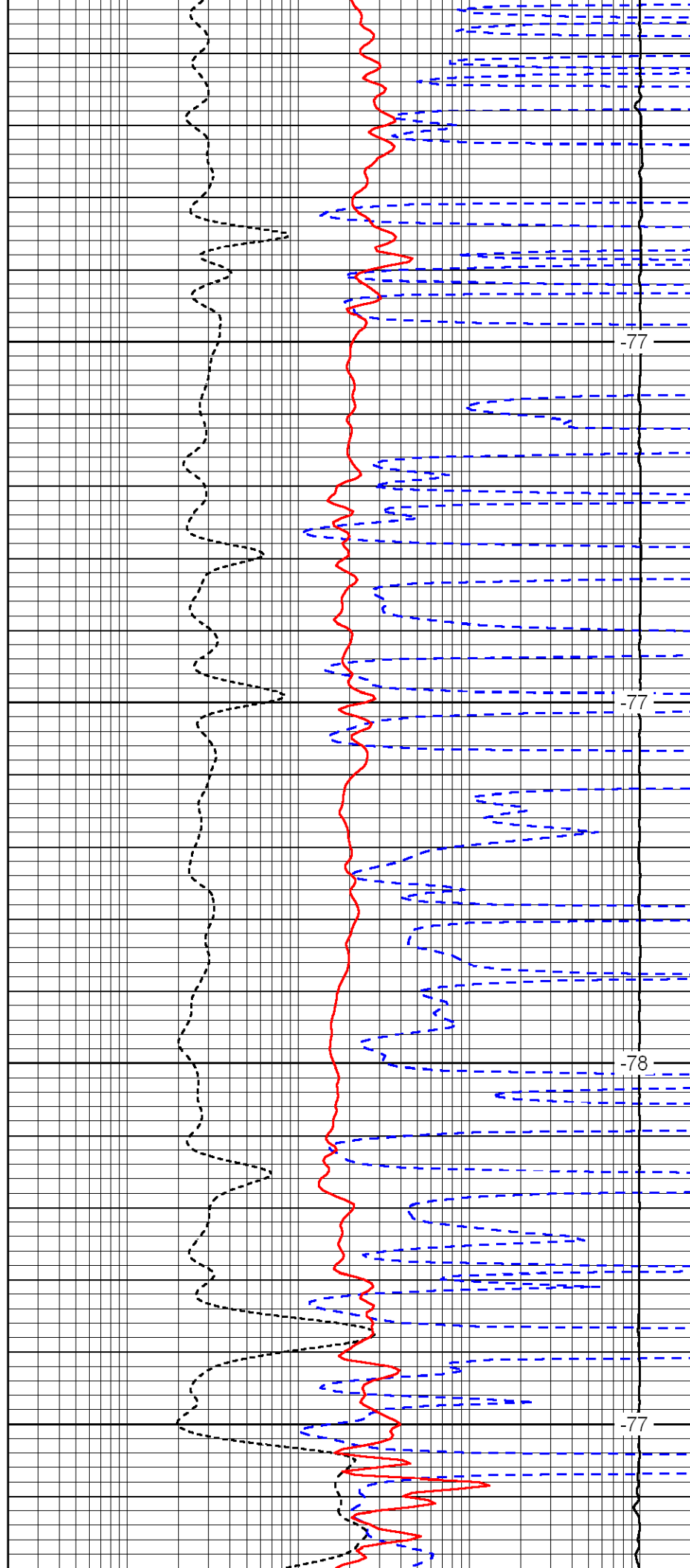


2000

2050

2100

2150

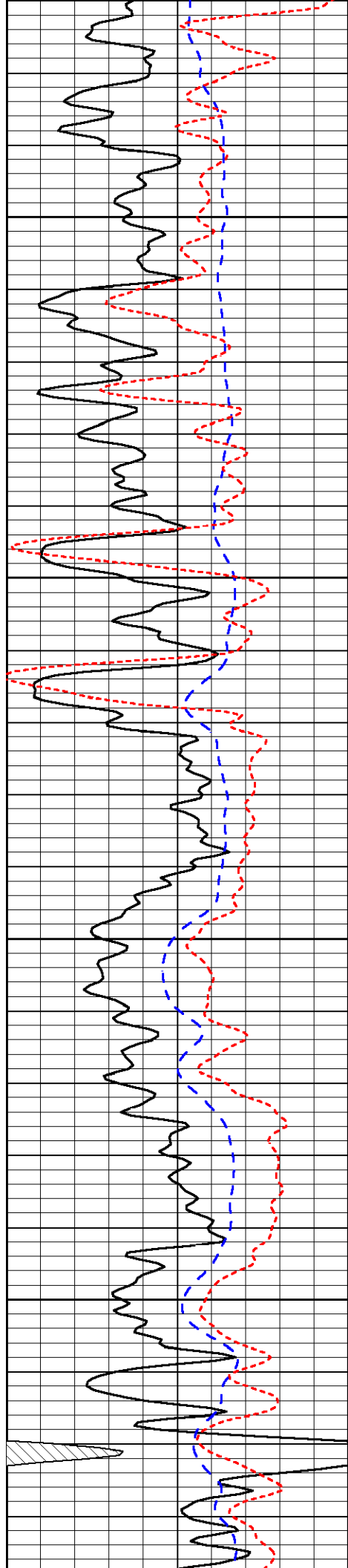


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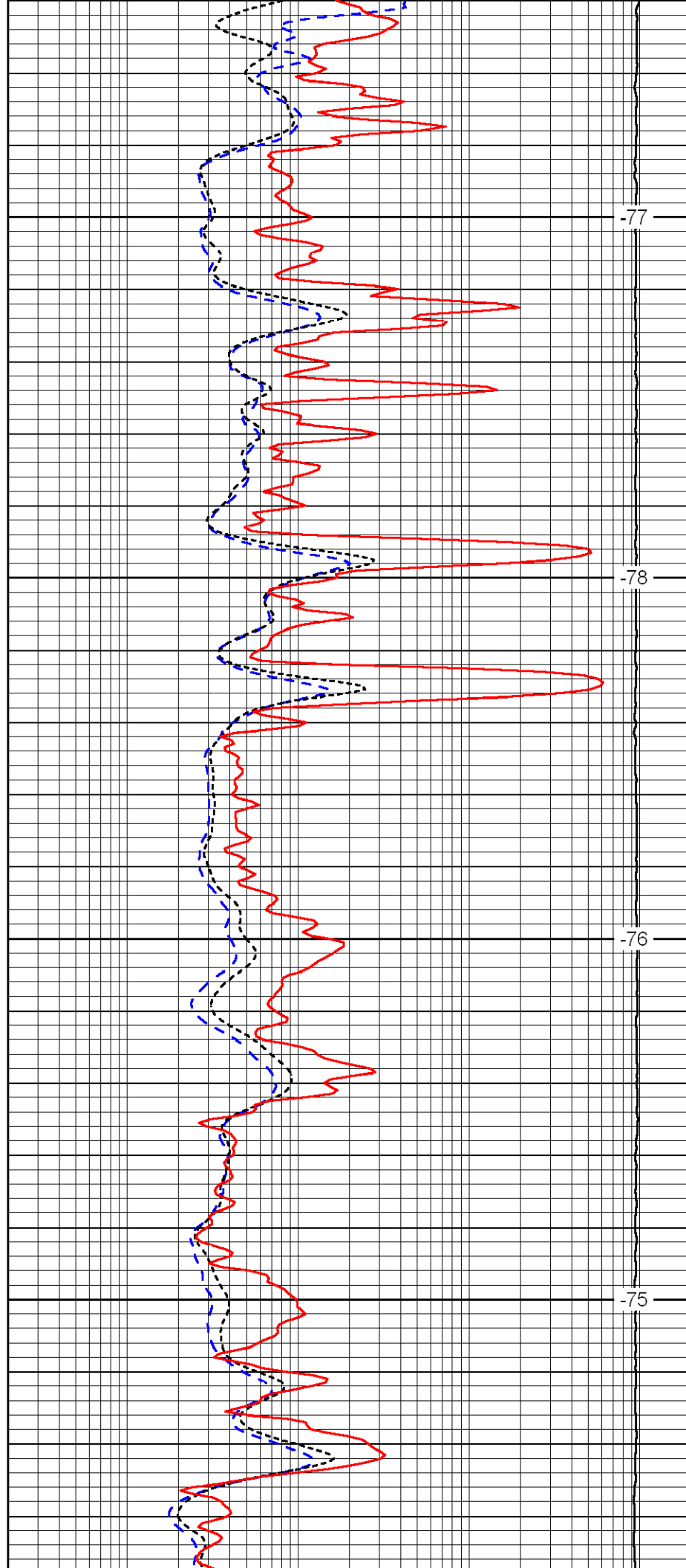


2200

2250

2300

2350

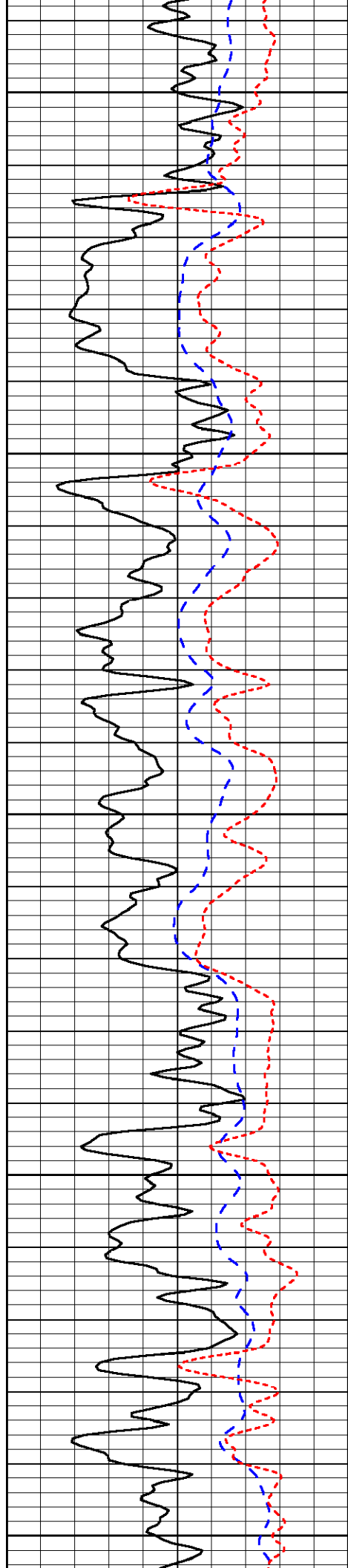


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-78

-76

-75



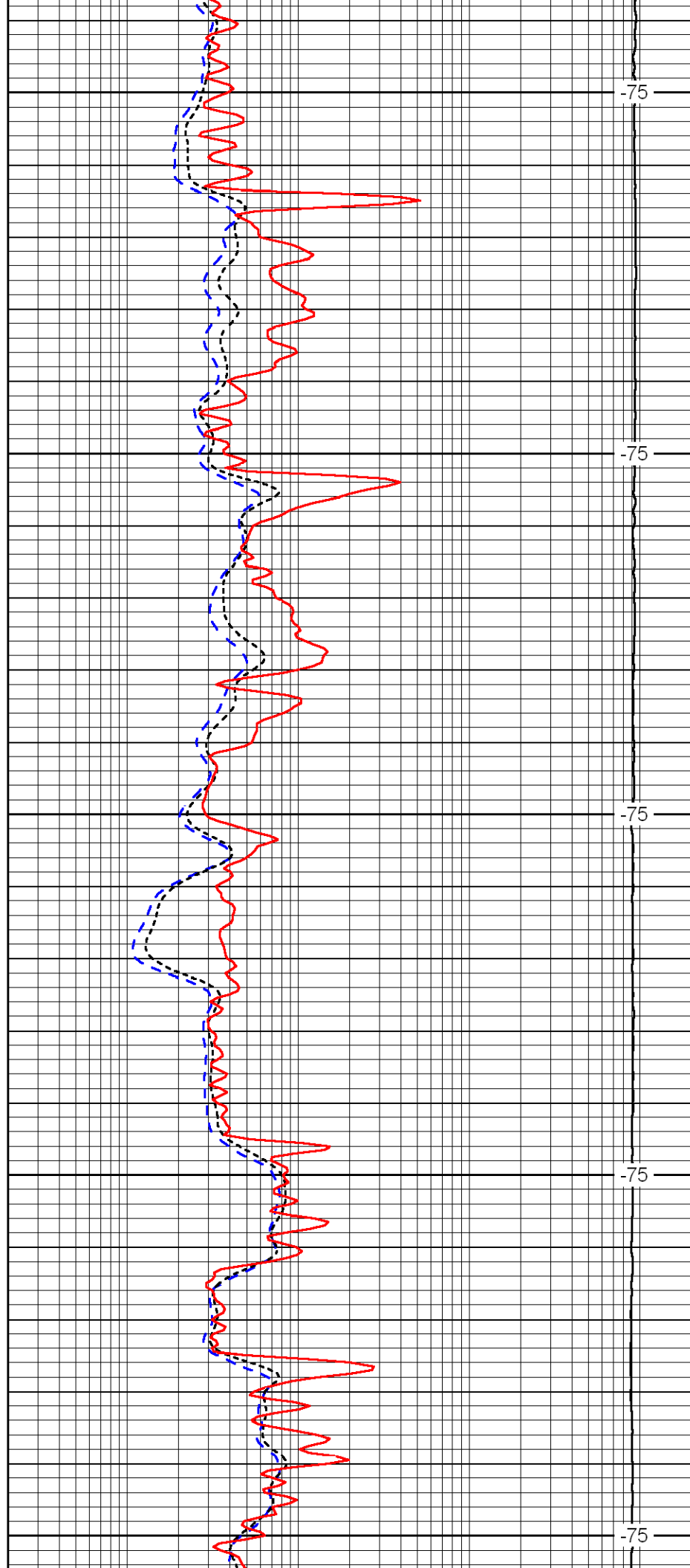
2400

2450

2500

2550

2600



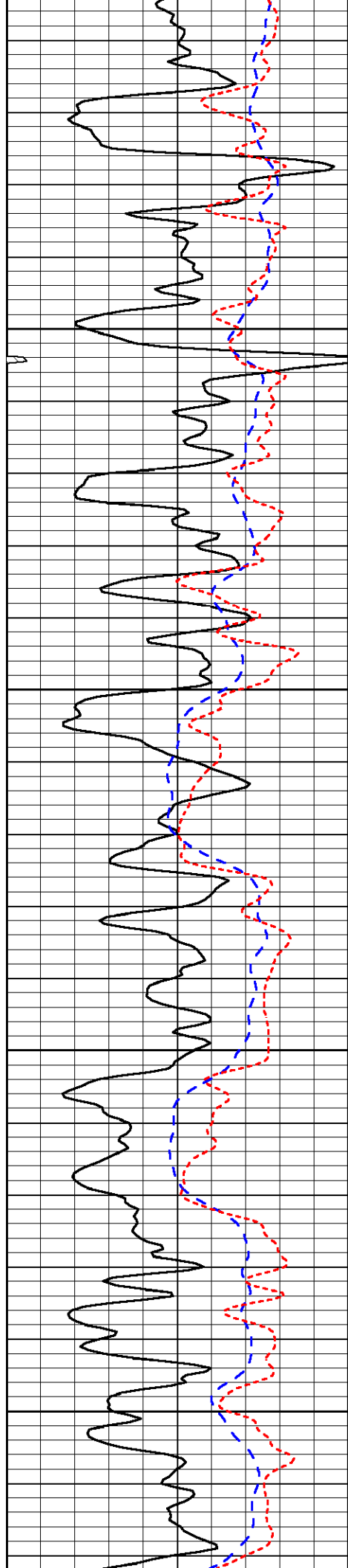
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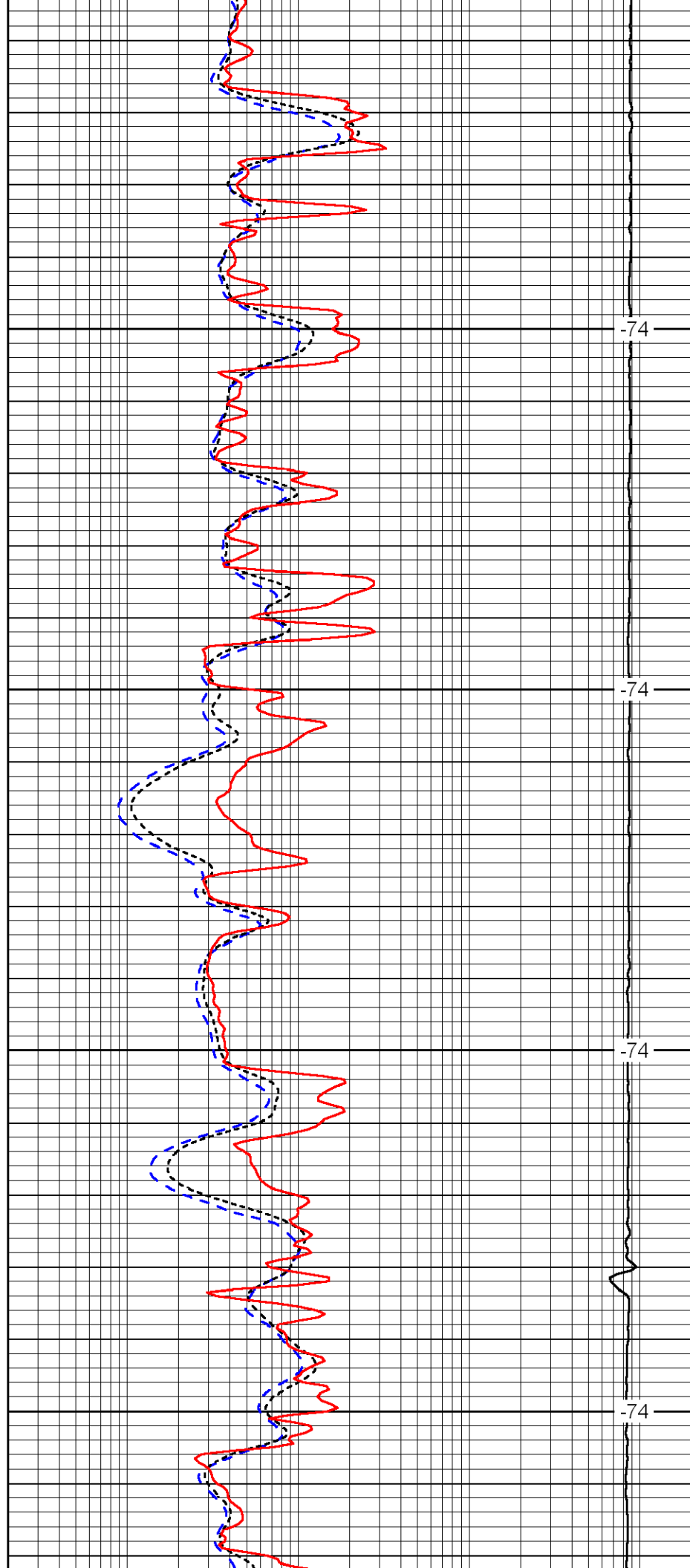


2650

2700

2750

2800

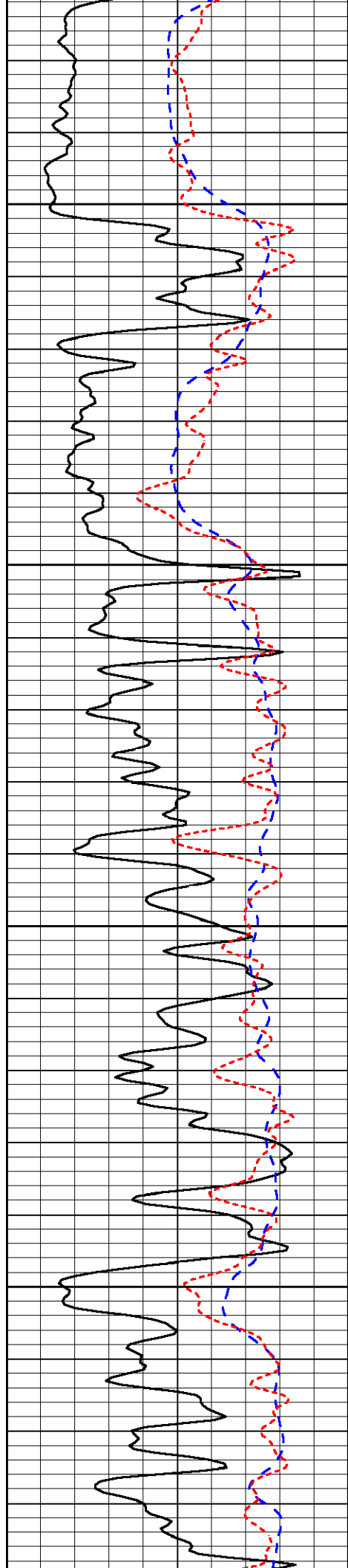


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-74

-74

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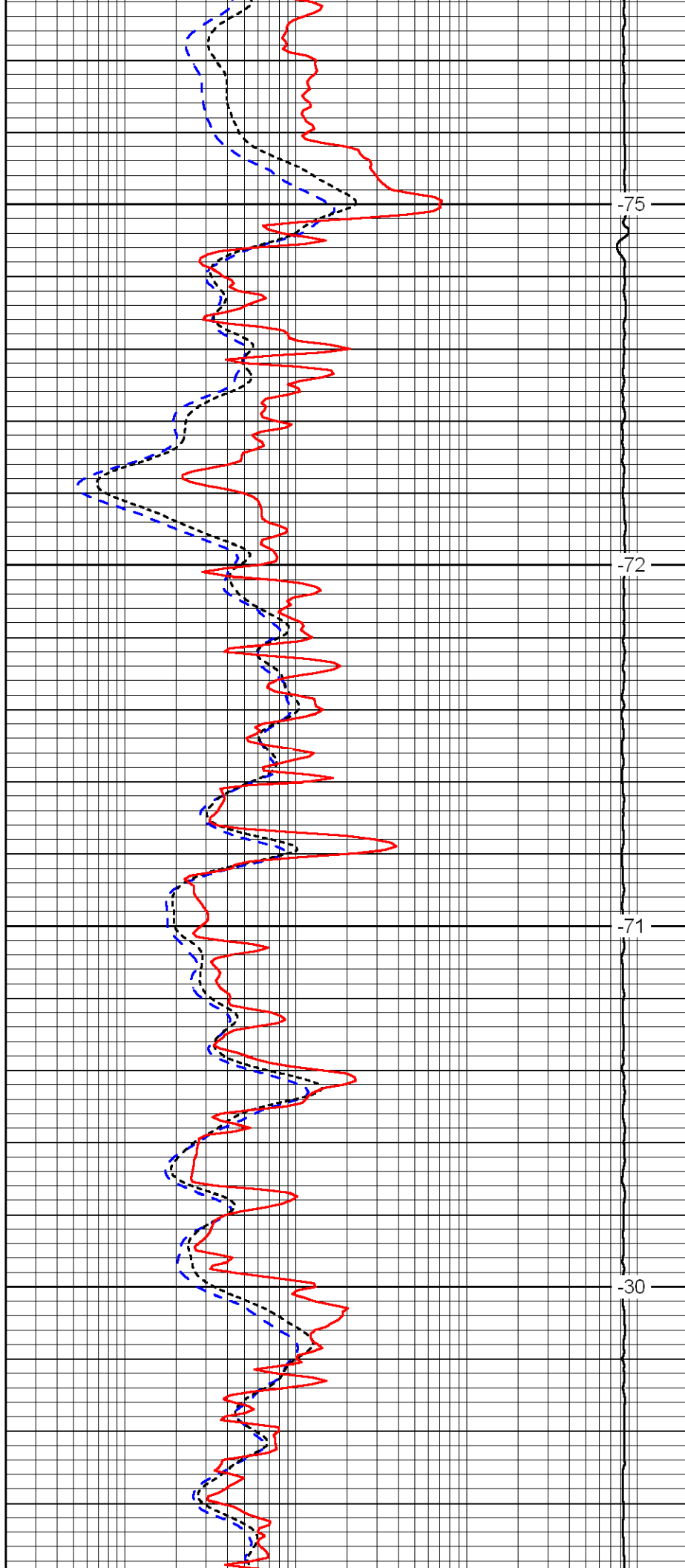


2850

2900

2950

3000

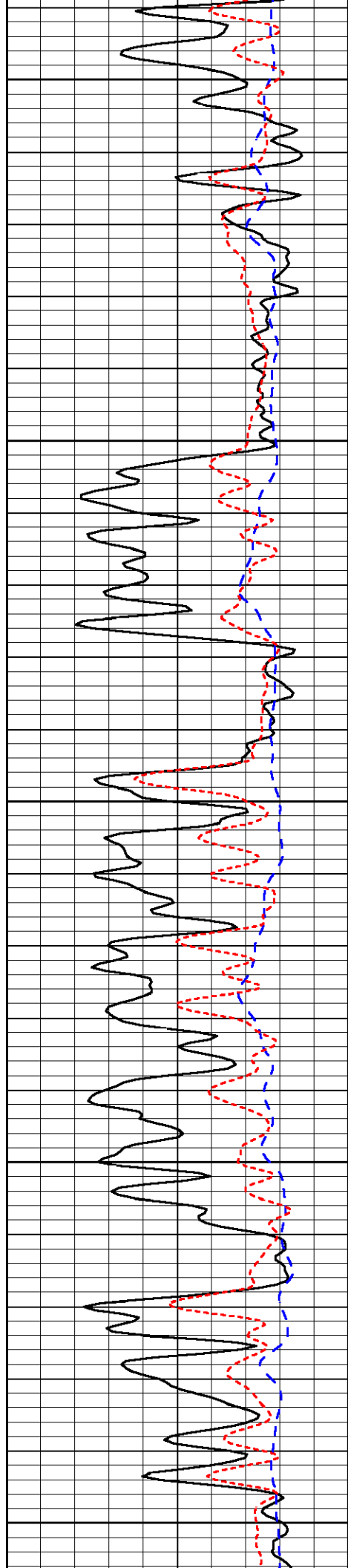


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-72

-71

-30



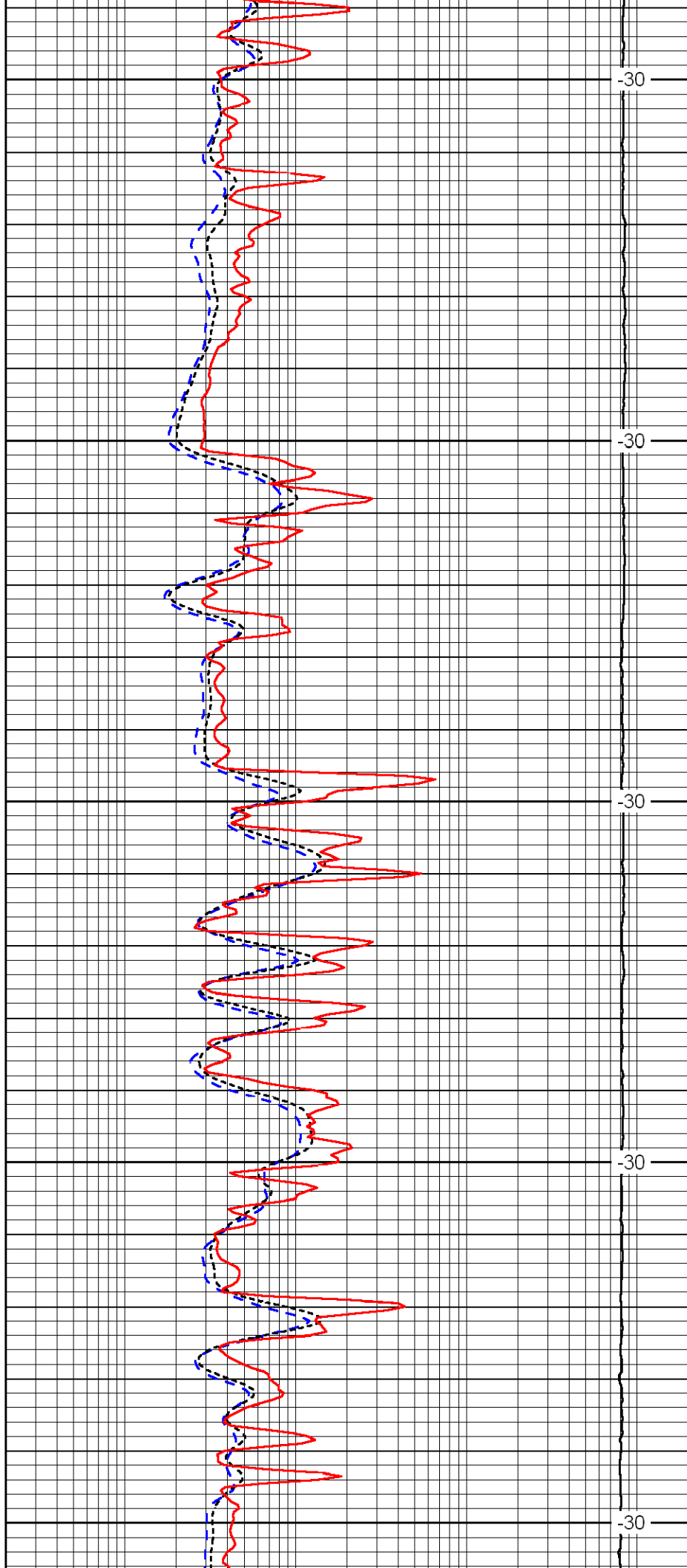
3050

3100

3150

3200

3250



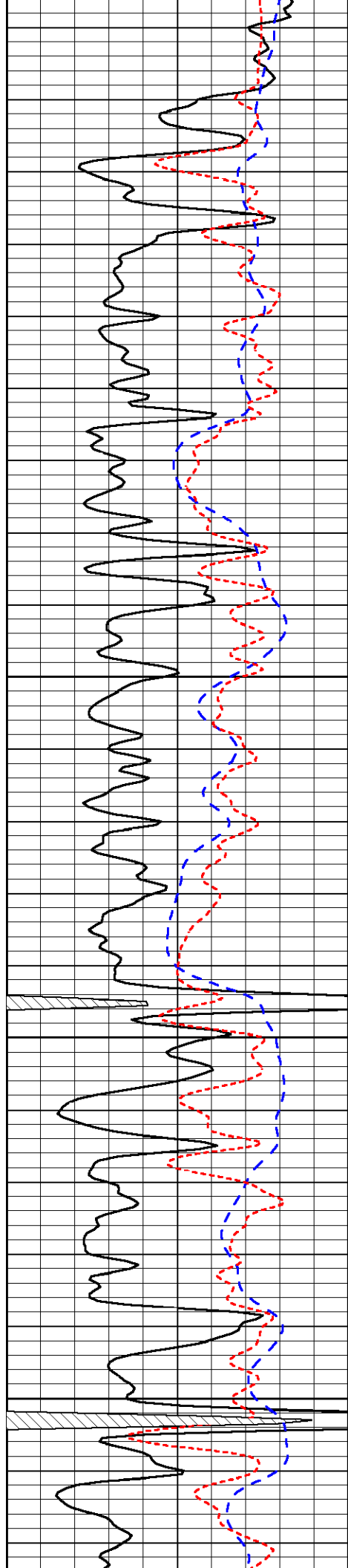
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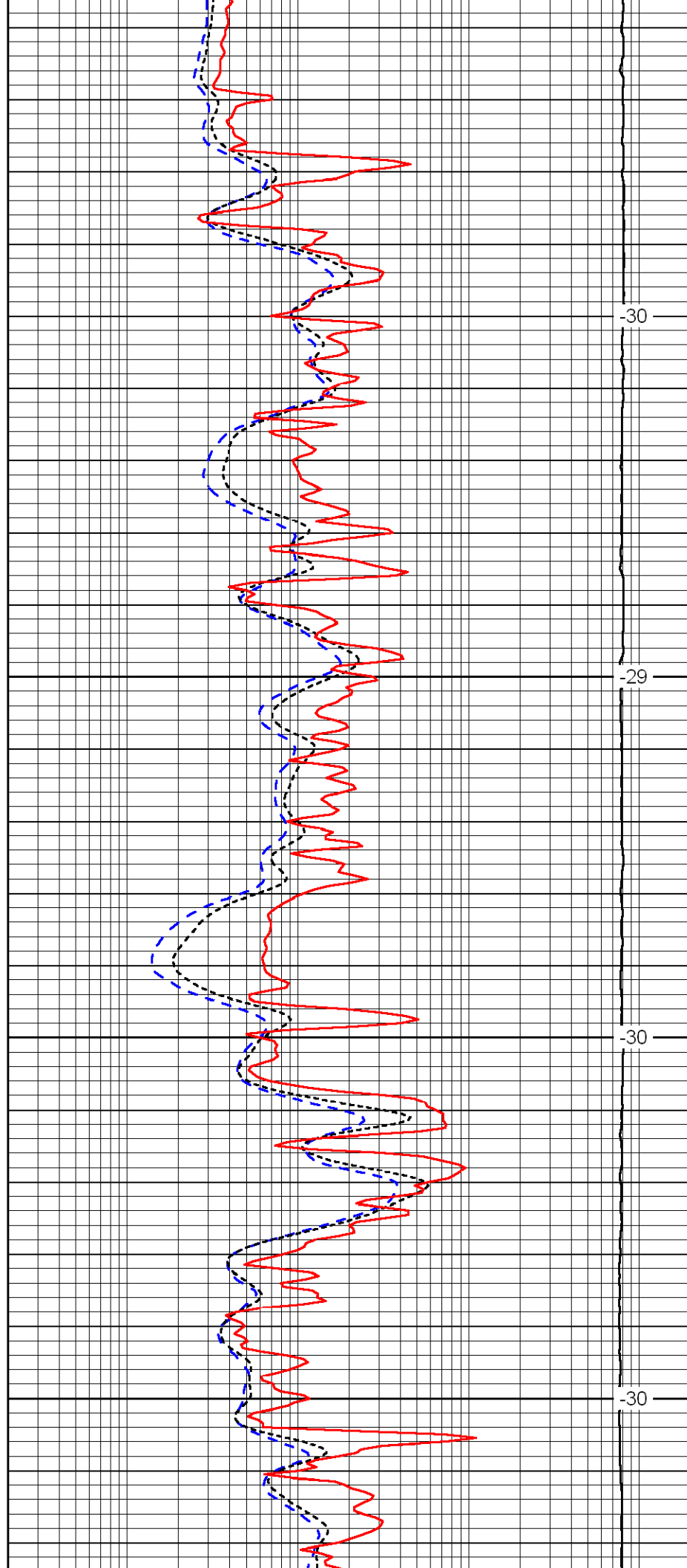


3300

3350

3400

3450

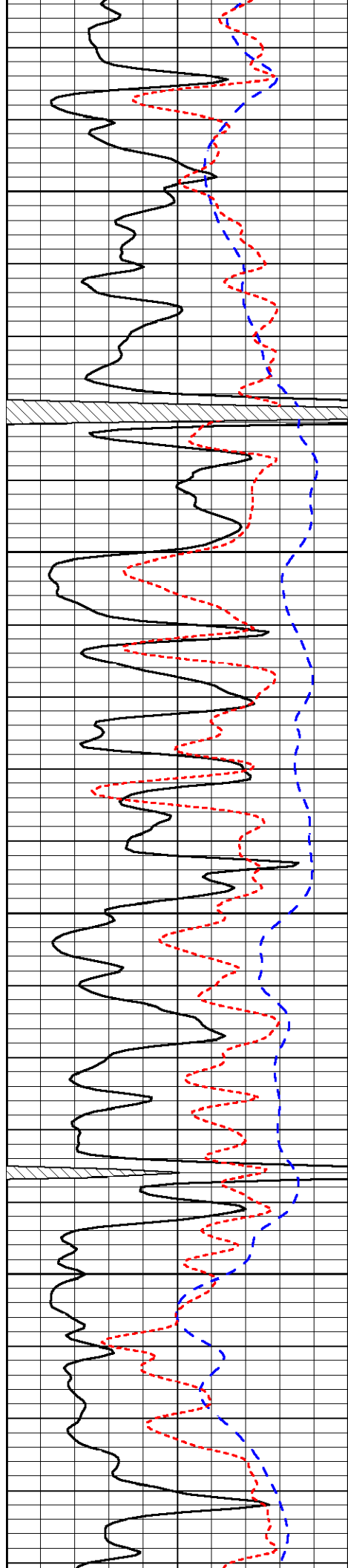


-29

-29

-30

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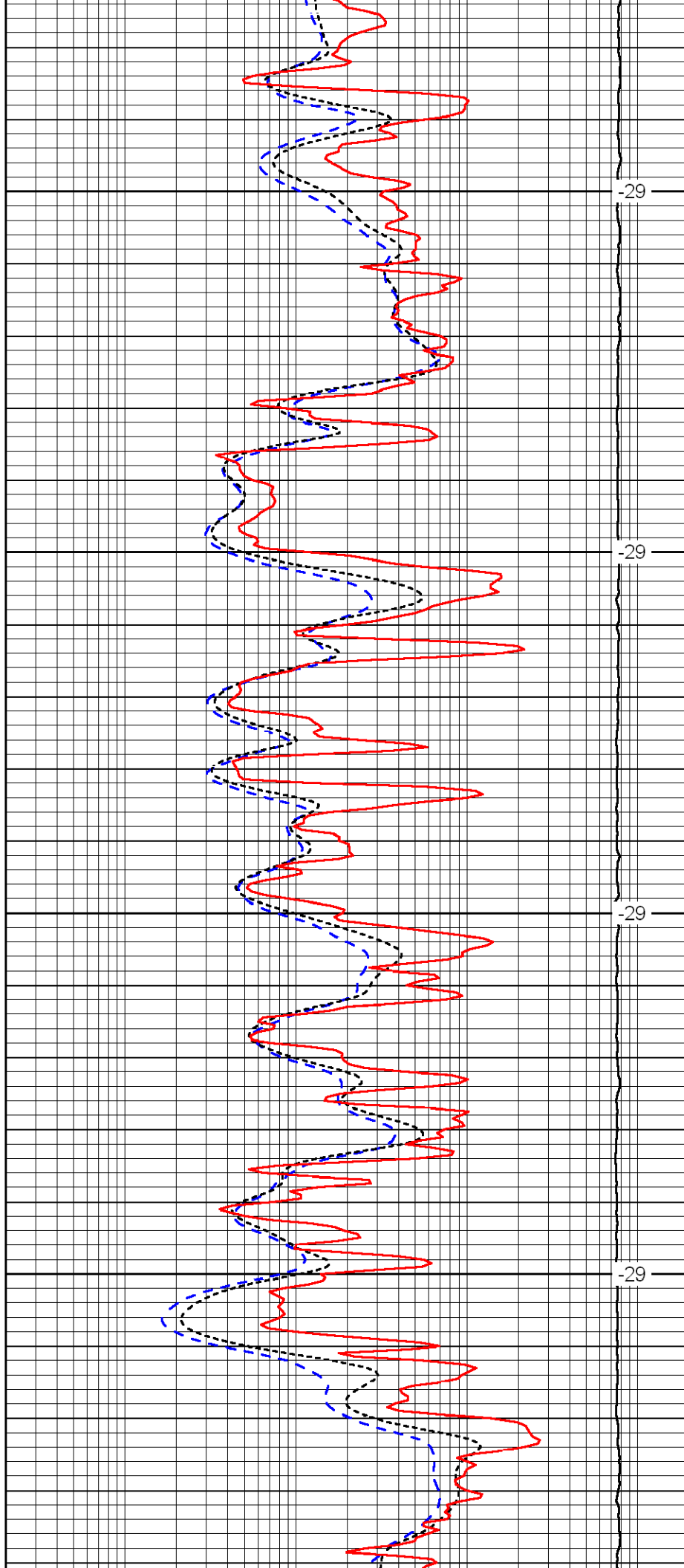


3500

3550

3600

3650

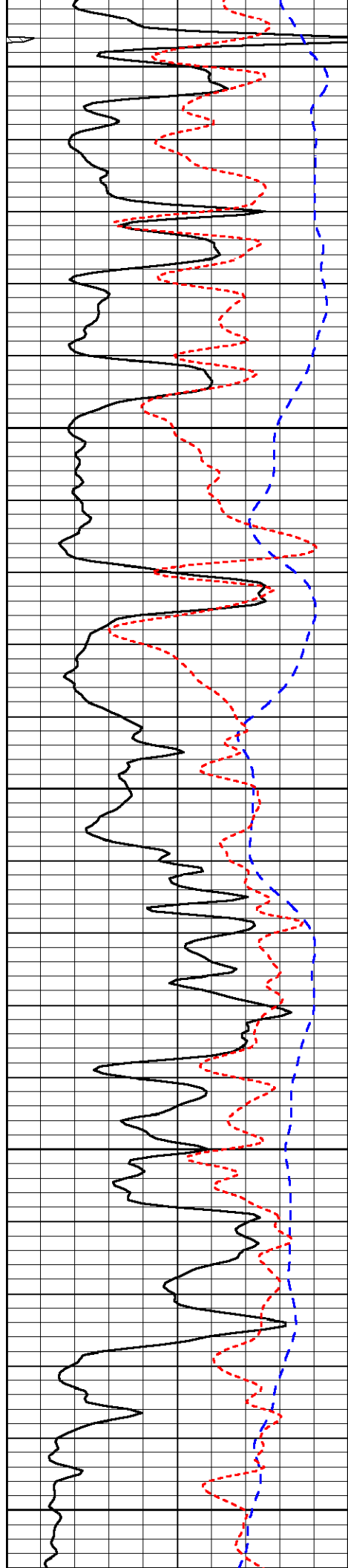


-29

-29

-29

-29



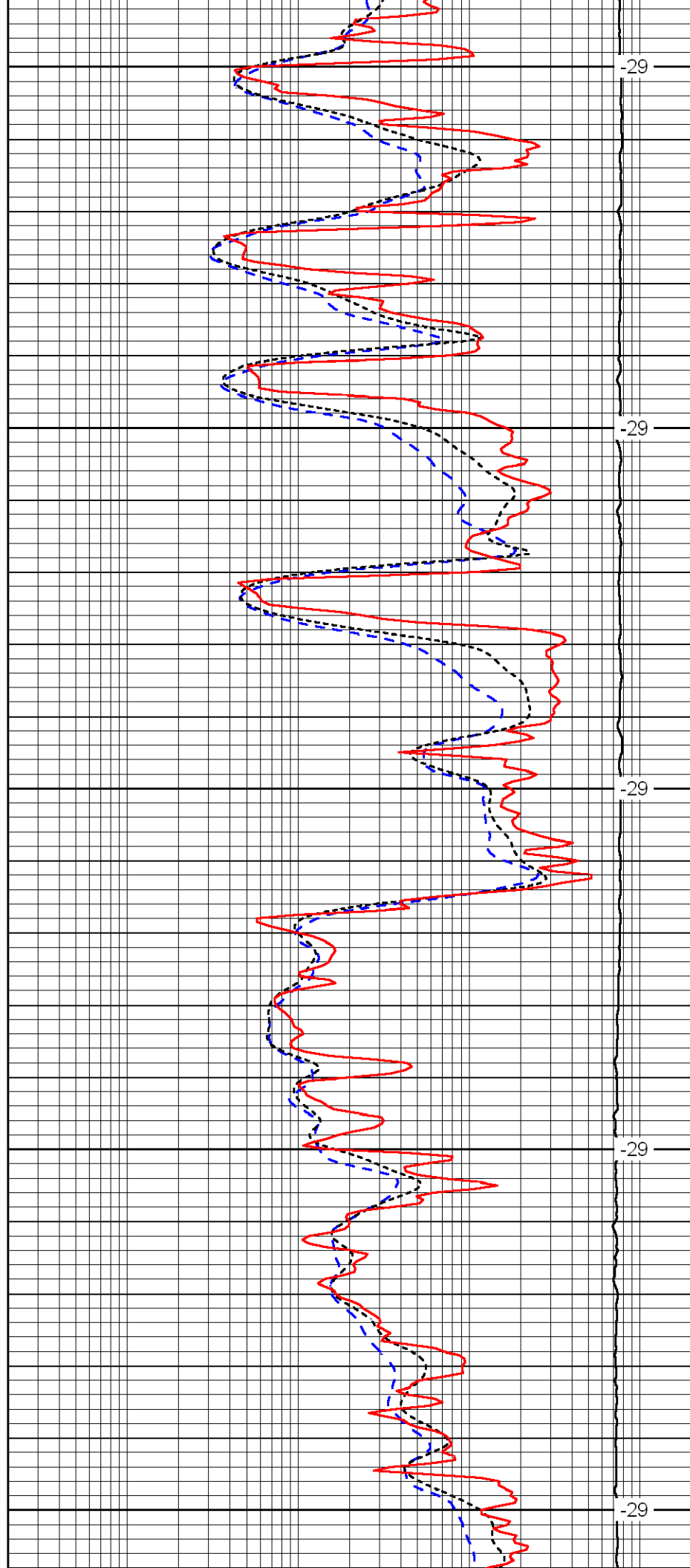
3700

3750

3800

3850

3900



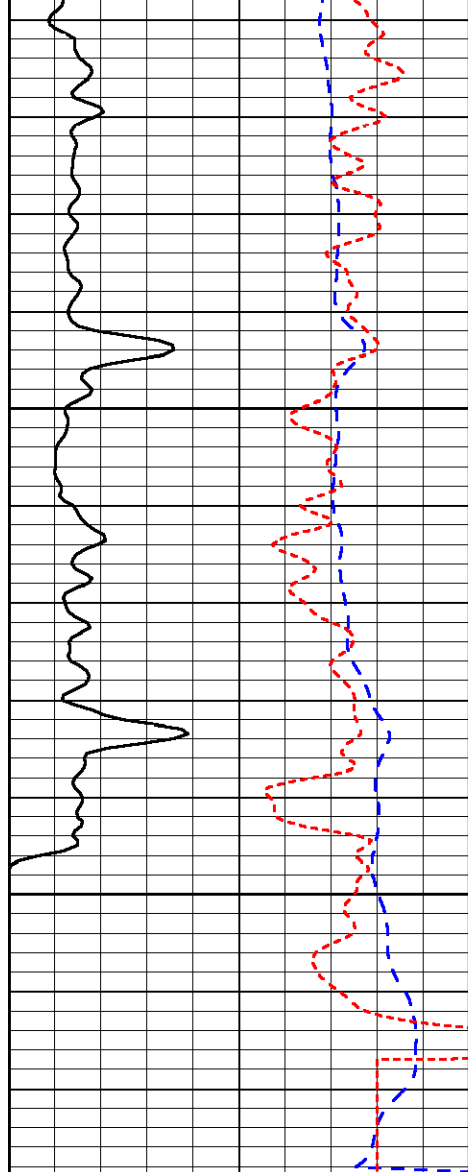
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-29

-29

-29

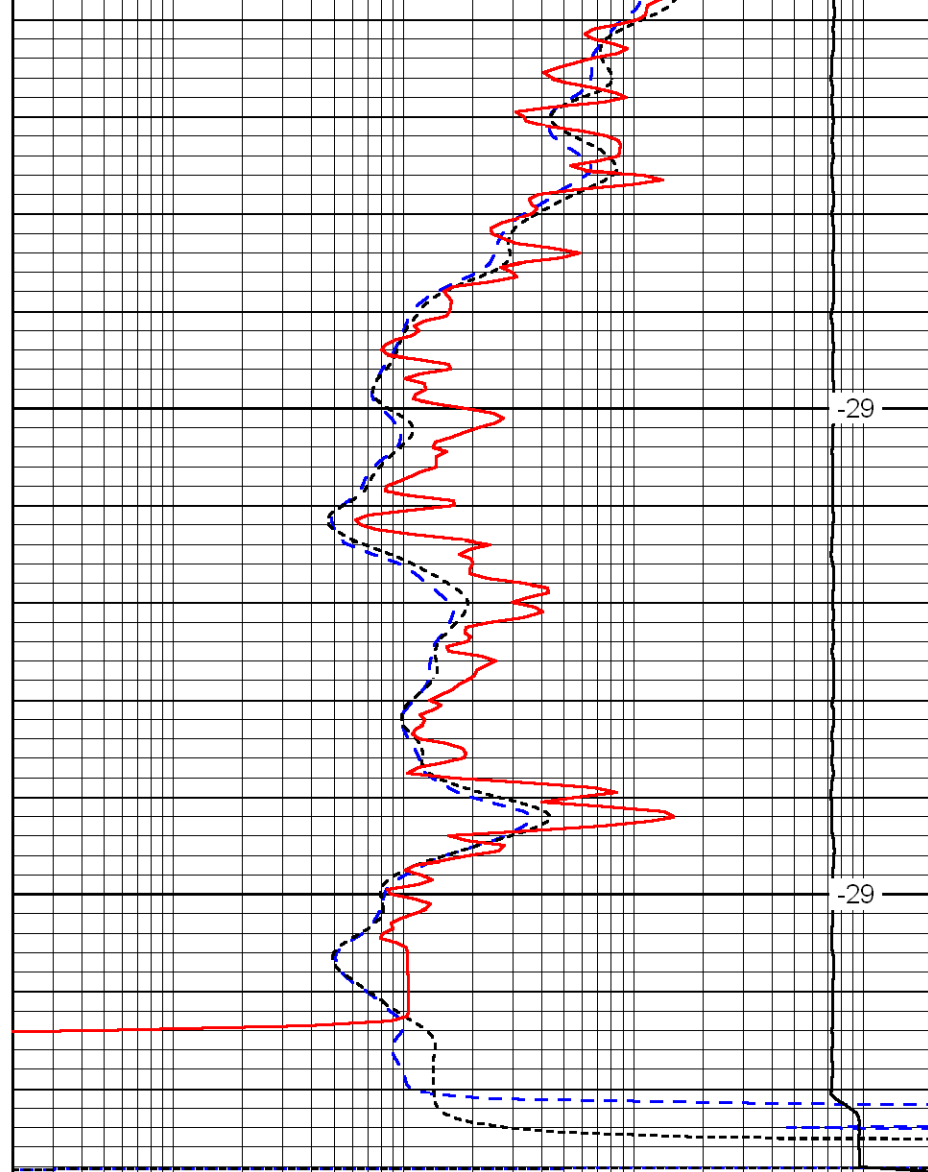
-29



0	Gamma Ray	150
-200	SP (MV)	0
-160	Rxo / Rt	40

3950

4000



0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000
15000	Line Tension (lb)	0

LSPD
(ft/min)