



Dual Induction Log

Pioneer Energy Services

API No.

15-039-21,181-00-00

Company **Murfin Drilling Company, Inc.**

Well **Ryser #1-24**

Field

County **Decatur** State

Kansas

Location

760' FSL & 1010' FEL

Other Services
CNL/CDL
MEL/BHCS

Sec: **24**

Twp: **5S**

Rge: **26W**

Elevation

K.B. 2468
D.F.
G.L. 2457

Permanent Datum Ground Level
Log Measured From Kelly Bushing
Drilling Measured From Kelly Bushing

Elevation 2457
11 Ft. Above Perm. Datum

Date

5/29/2013

Run Number

One

Depth Driller

3835

Depth Logger

3834

Bottom Logged Interval

3833

Top Log Interval

0

Casing Driller

8.625 @ 217

Casing Logger

218

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

1,000

Density / Viscosity

9.1 69

pH / Fluid Loss

11.5 5.6

Source of Sample

Flowline

Rm @ Meas. Temp

1.45 @ 71

Rmf @ Meas. Temp

1.09 @ 71

Rmc @ Meas. Temp

1.96 @ 71

Source of Rmf / Rmc

Charts

Rm @ BHT

.9 @ 114

Operating Rig Time

4 1/2 Hours

Max Rec. Temp. F

114

Equipment Number

17

Location

Hays

Recorded By

C. Desaire

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.

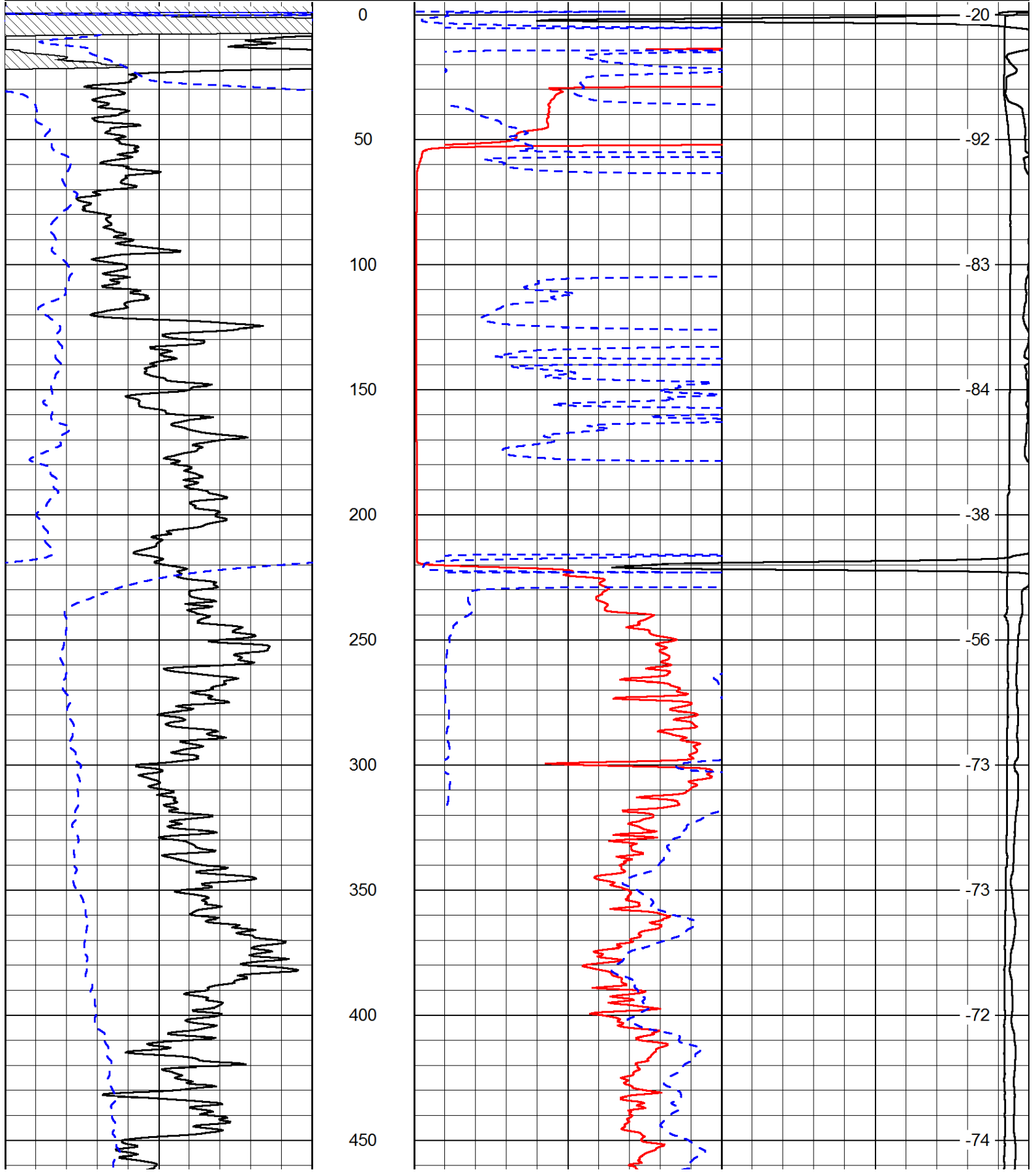
Comments

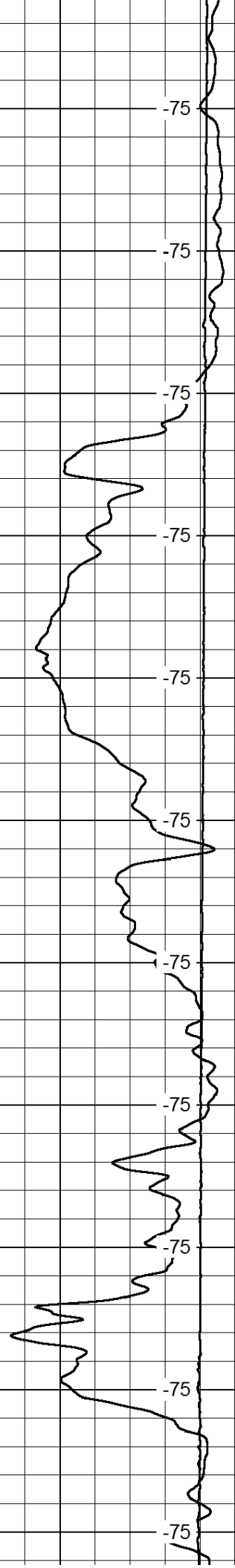
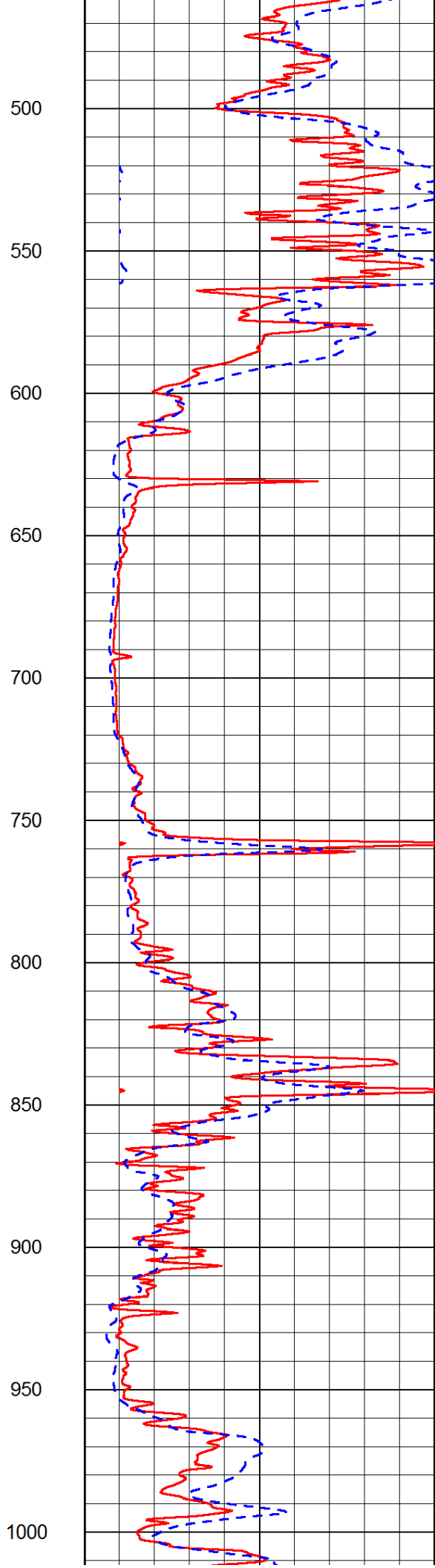
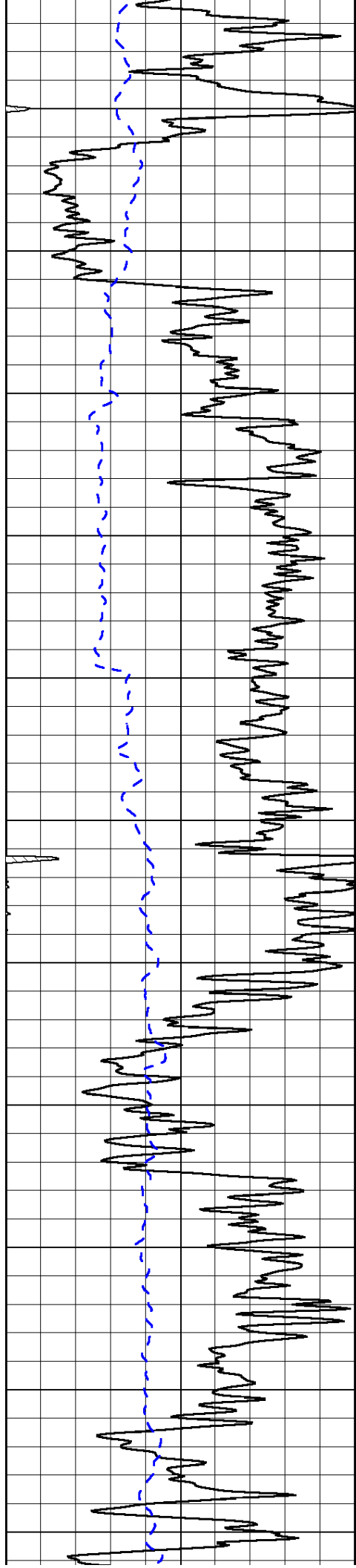
Thank you for using Pioneer Energy Services
www.pioneerres.com
785 625 3858

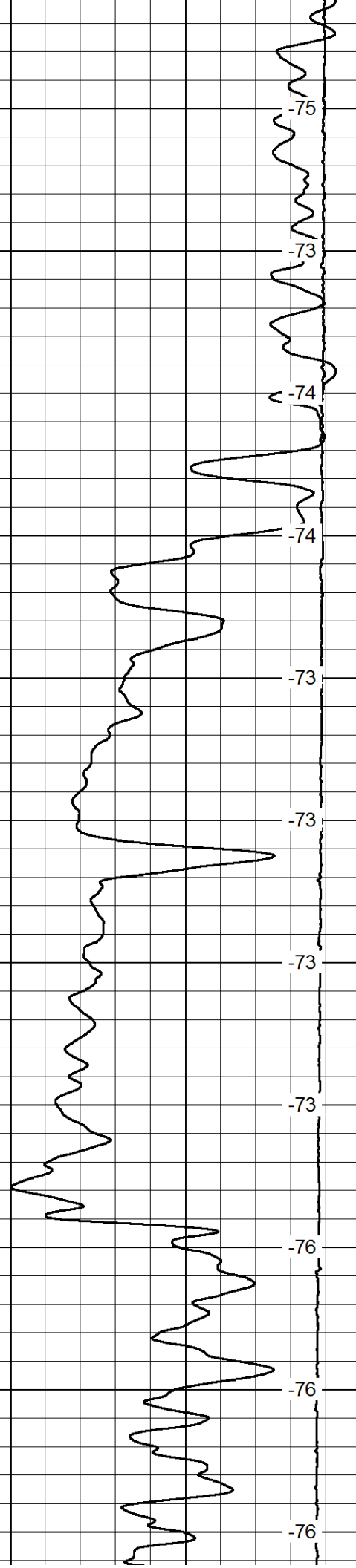
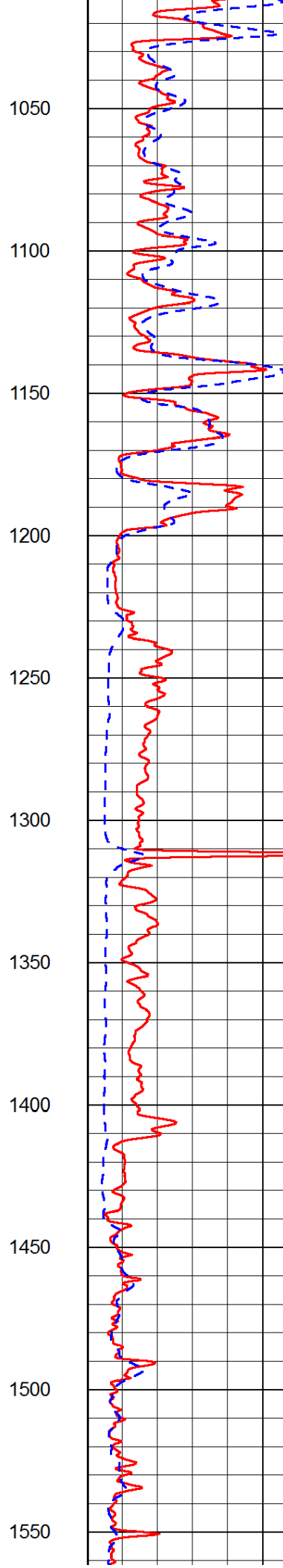
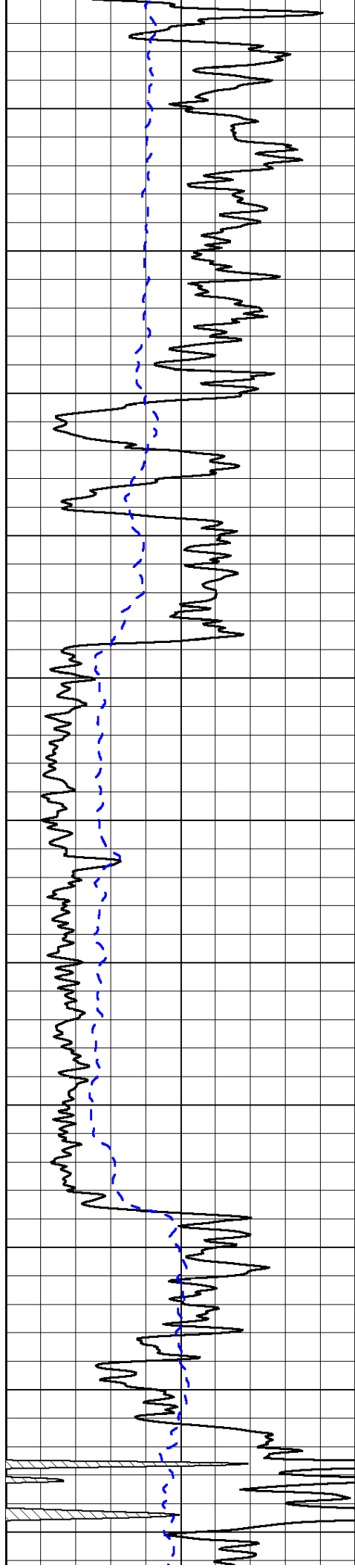
Lenora KS, W on Hwy 9 to W15Ln Rd,
N, W Into

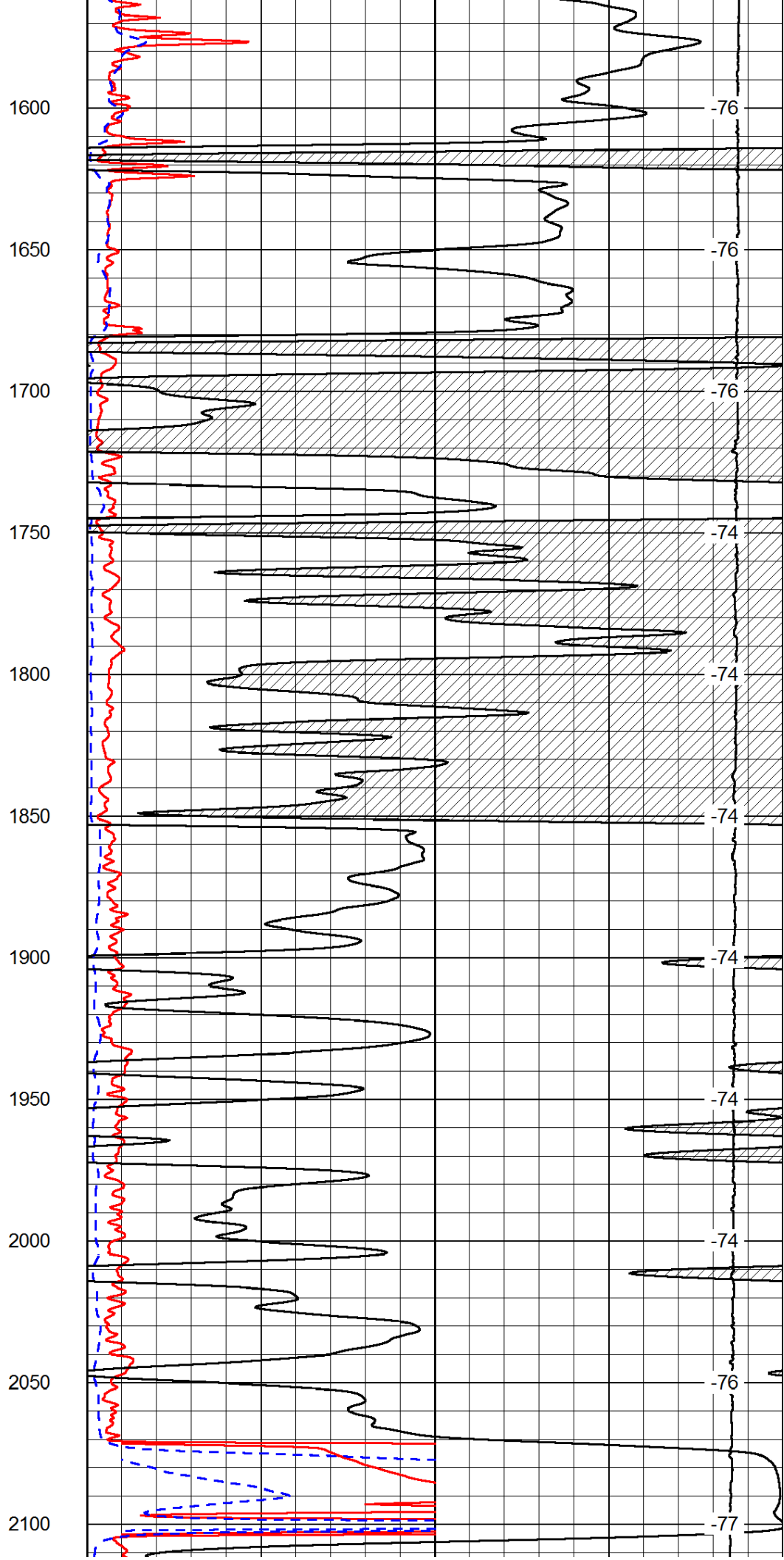
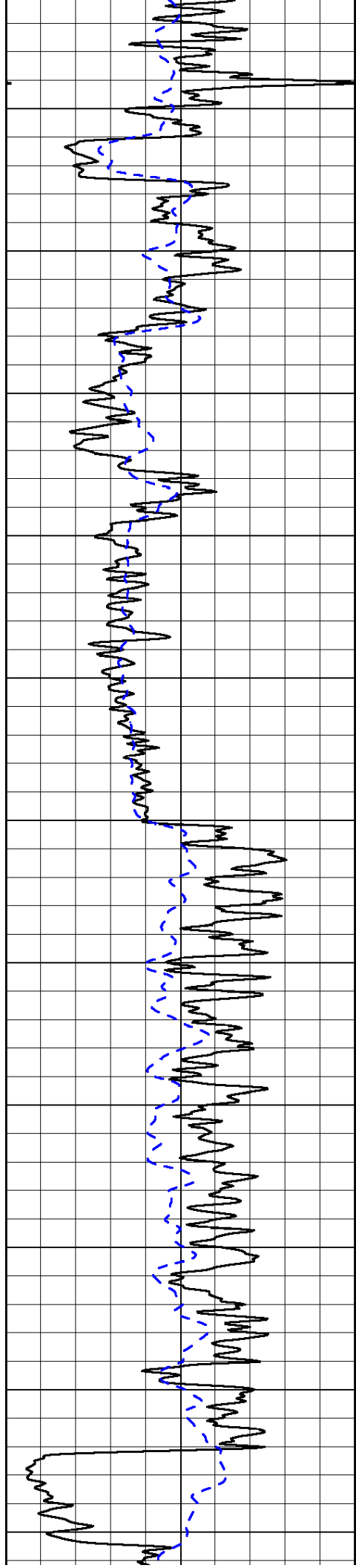
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Presentation Format: dil2in
Dataset Creation: Wed May 29 09:06:36 2013
Charted by: Depth in Feet scaled 1:600

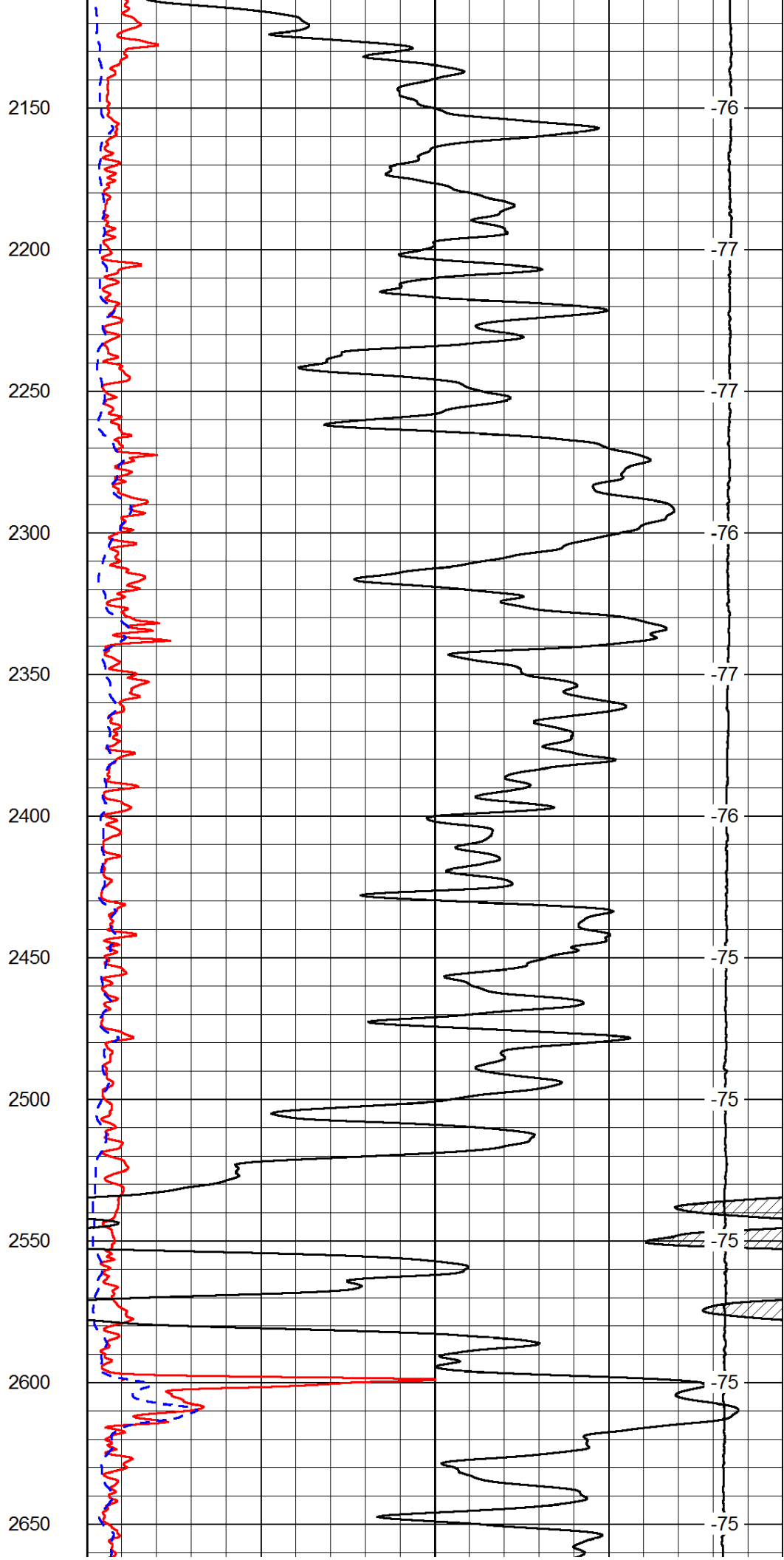
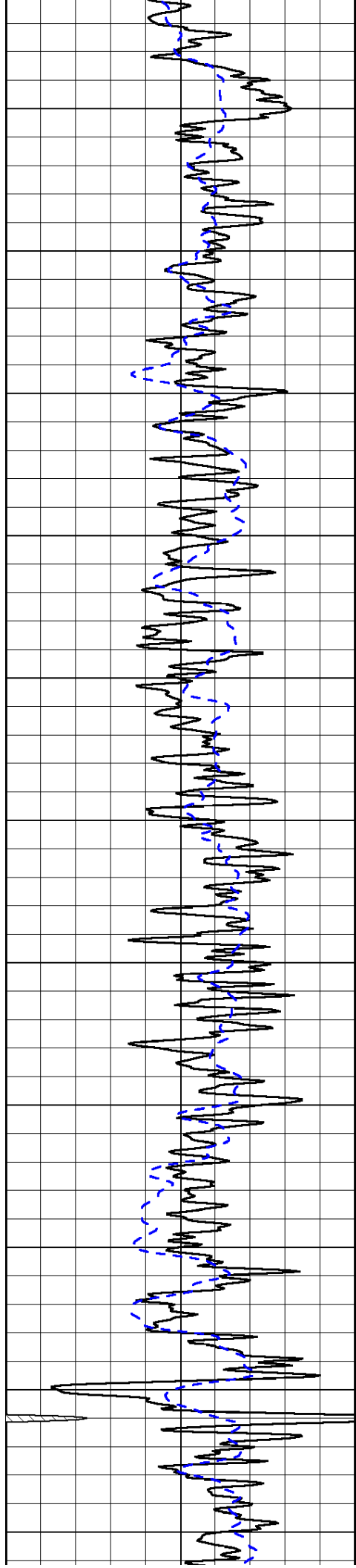
Charted by: _____ Depth in Feet scaled 1:500								
0	Gamma Ray	150	0	Shallow Resistivity	50	LSPD		
-200	SP (mV)	0	0	Deep Resistivity	50			
			1000	Conductivity		0		
			15000	Line Tension		0		
			50	Shallow Resistivity	500			
			50	Deep Resistivity	500			

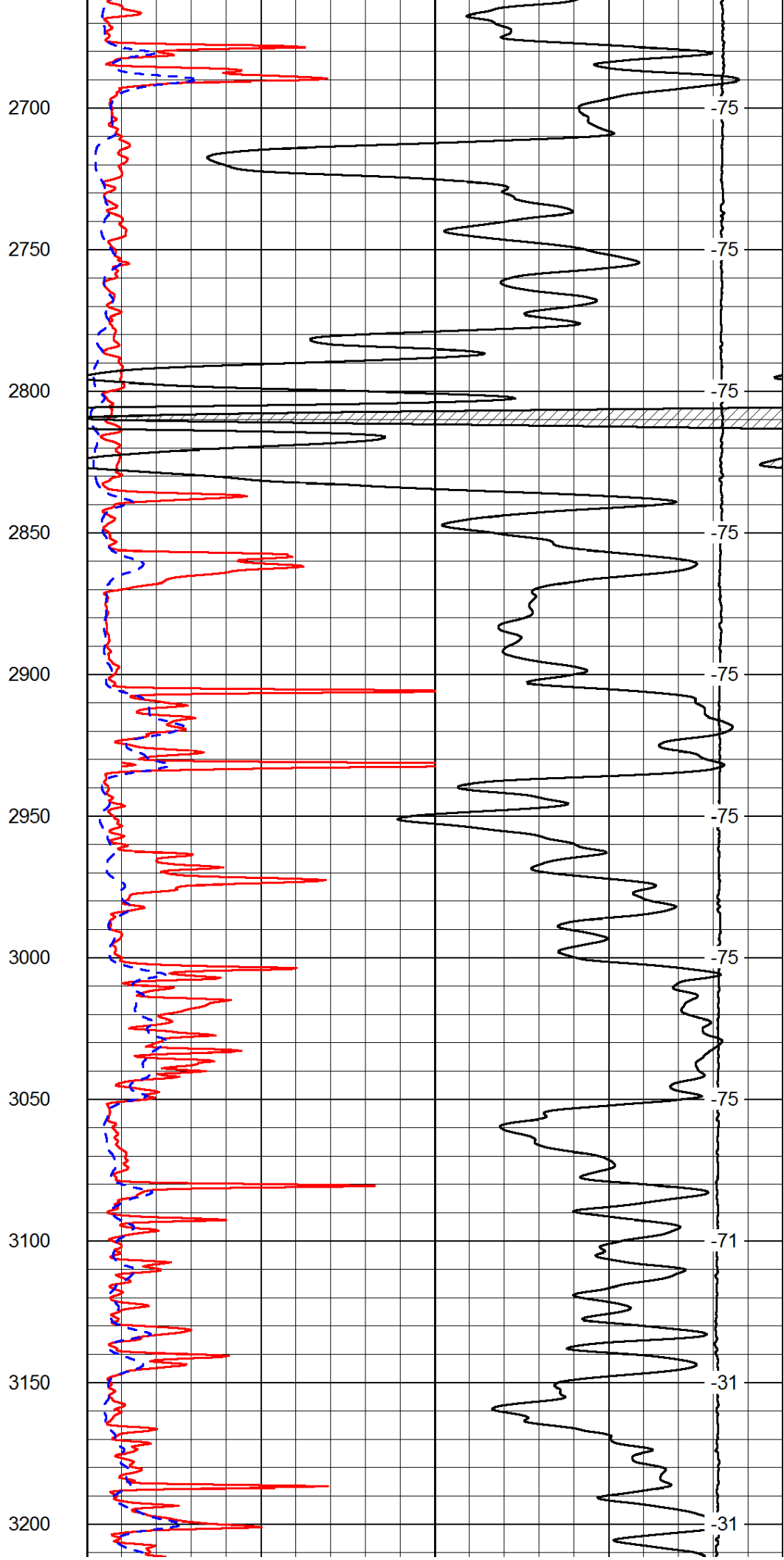
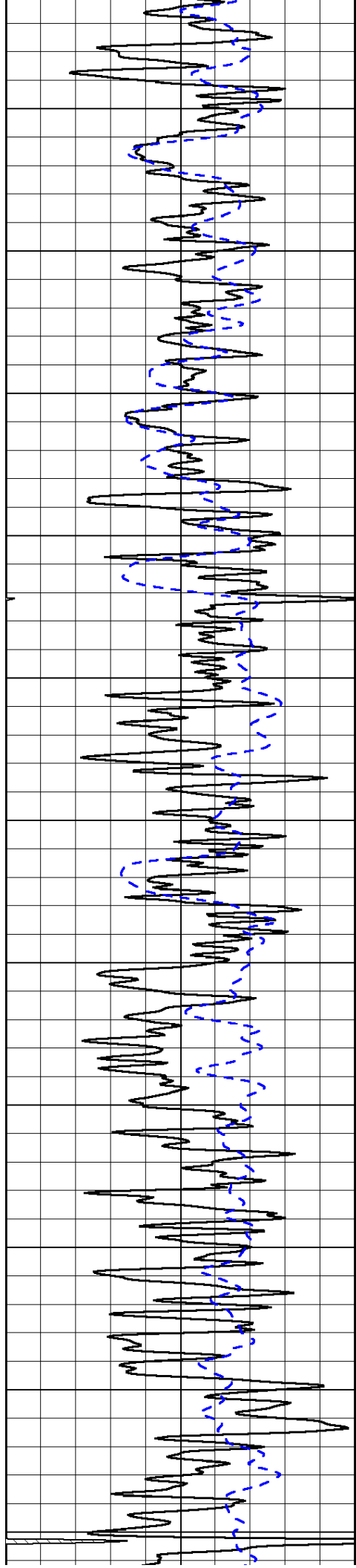


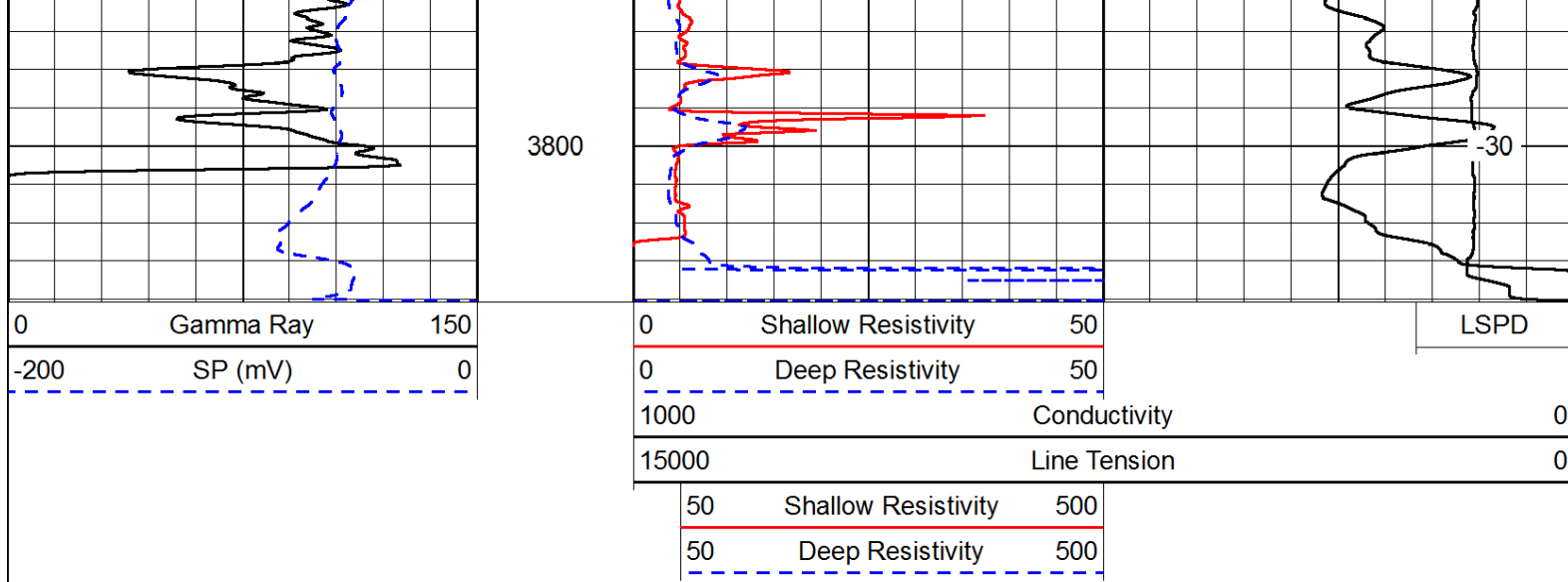




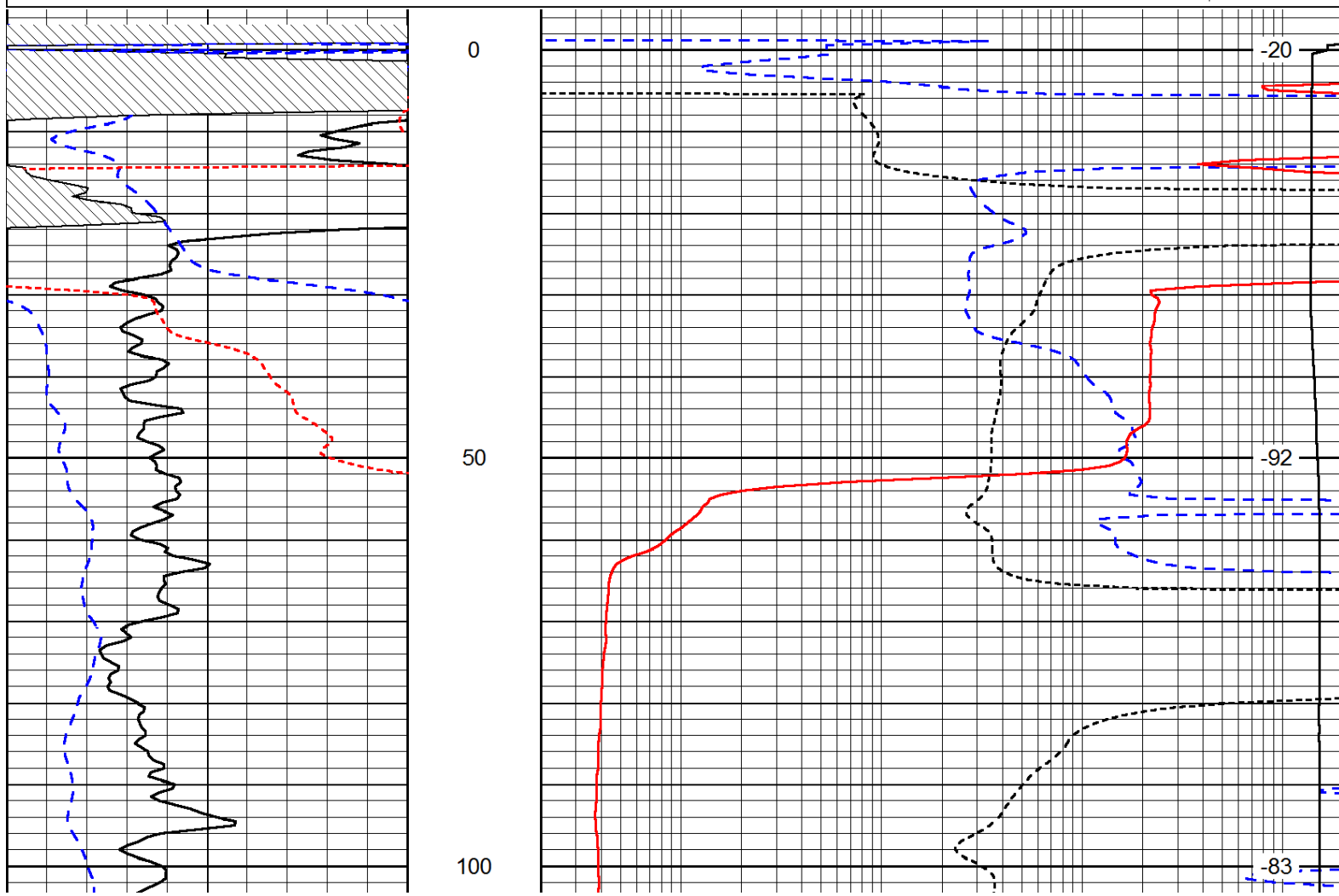
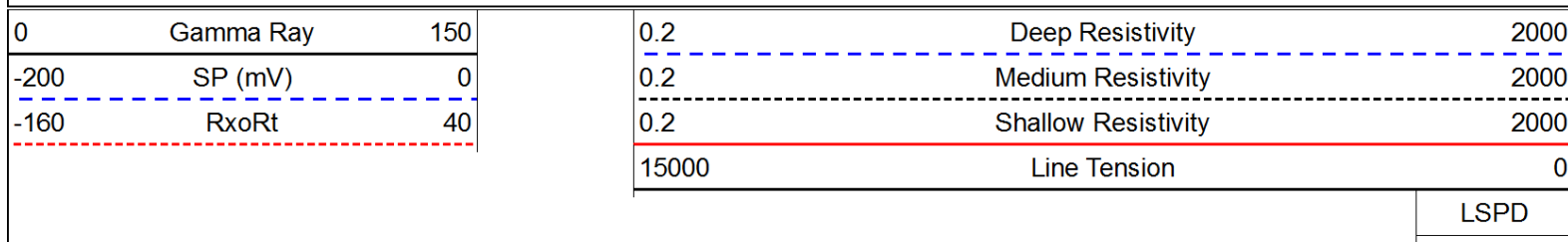


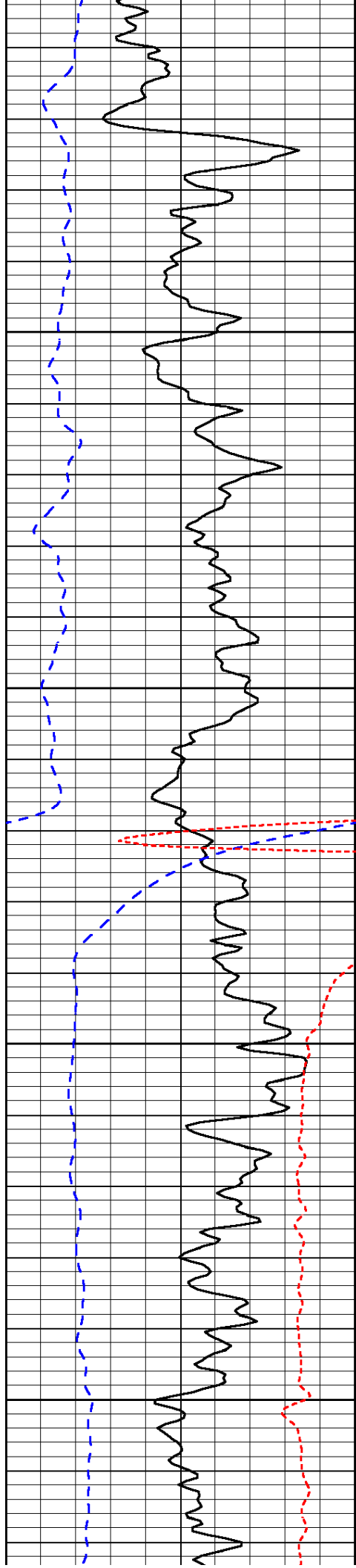






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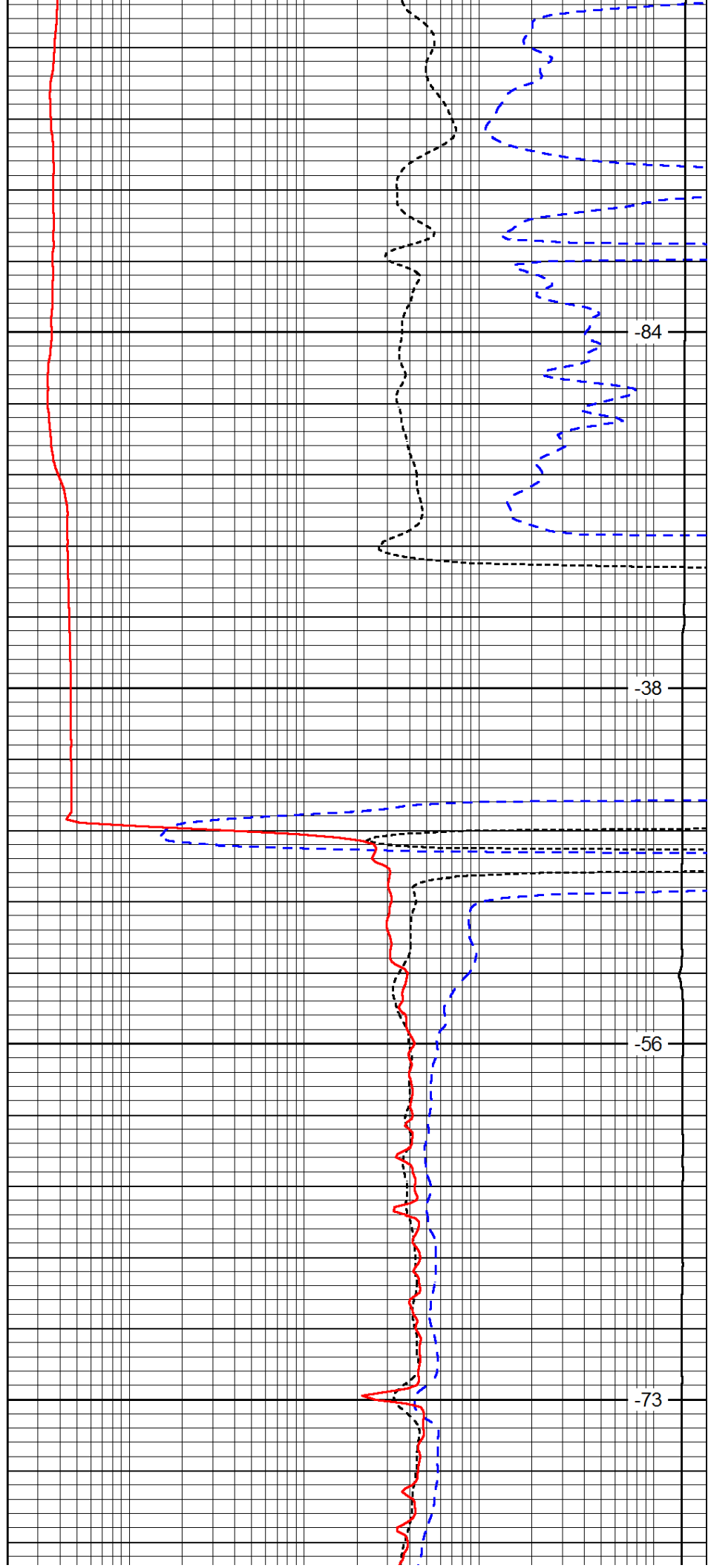


150

200

250

300

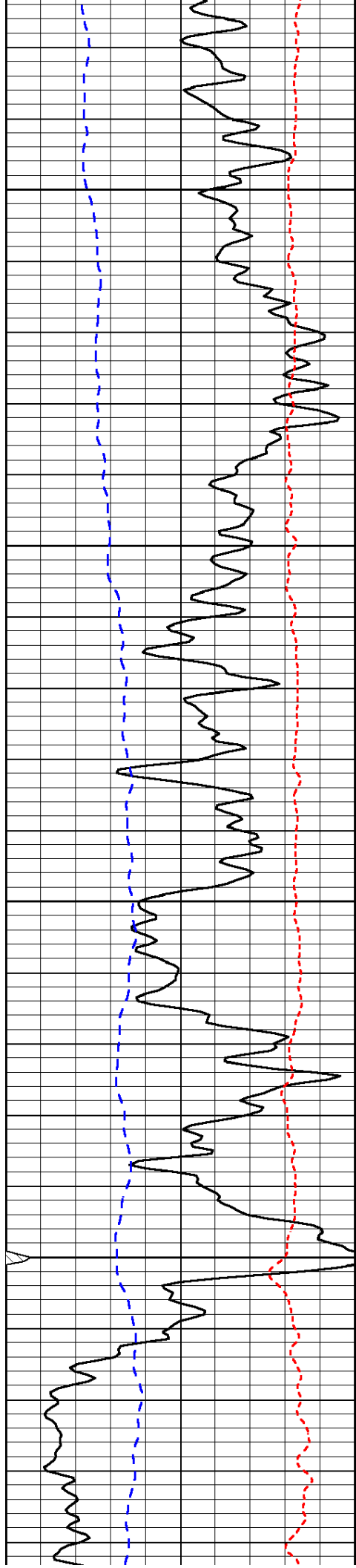


-84

-38

-56

-73

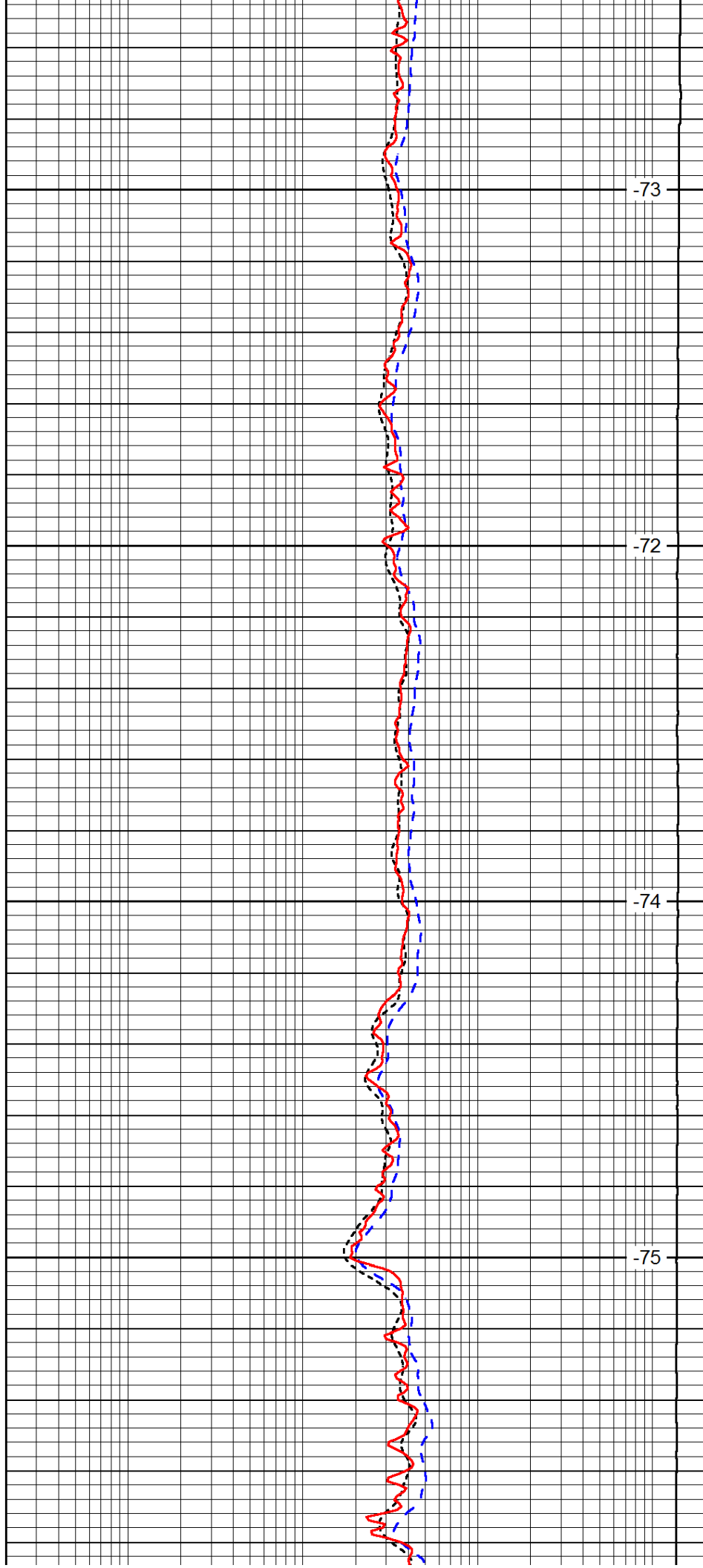


350

400

450

500

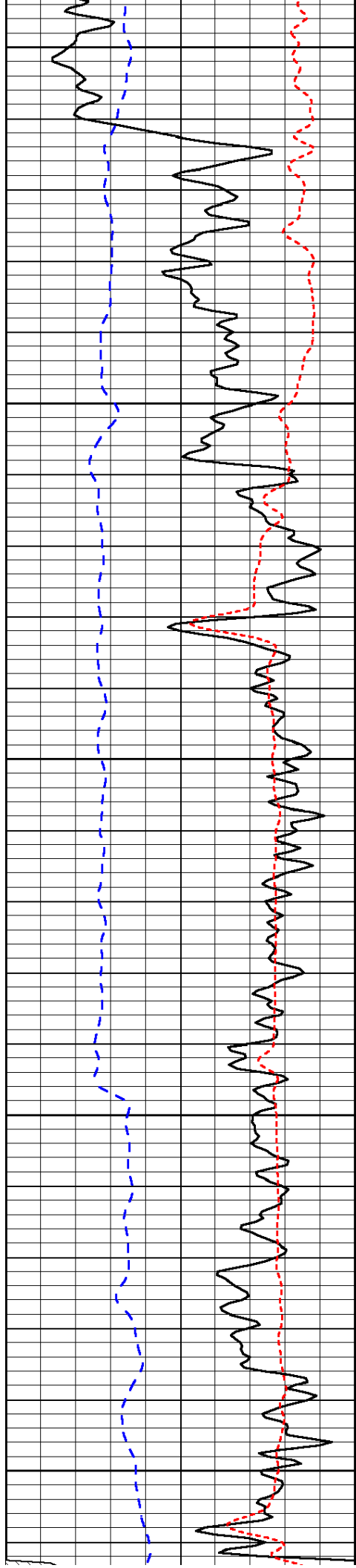


-73

-72

-74

-75



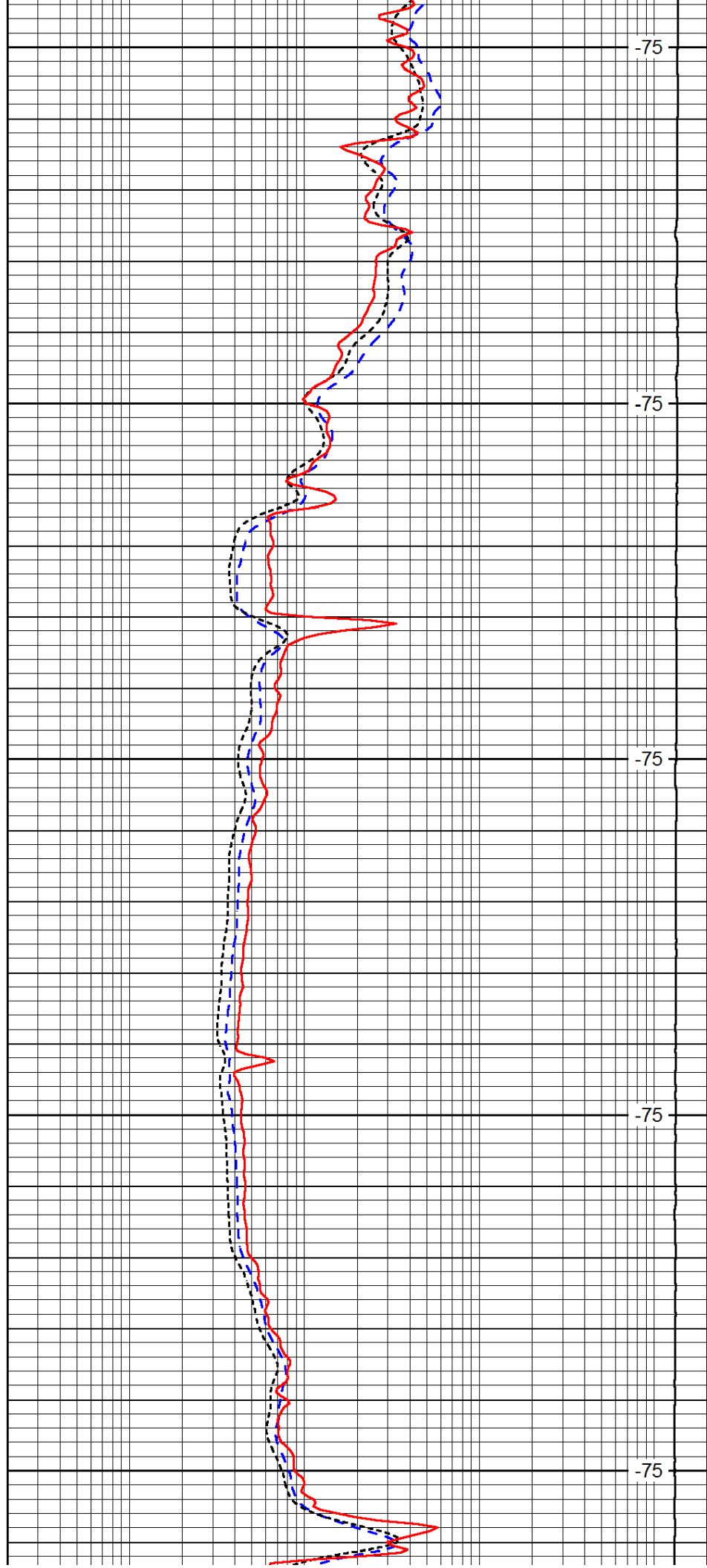
550

600

650

700

750



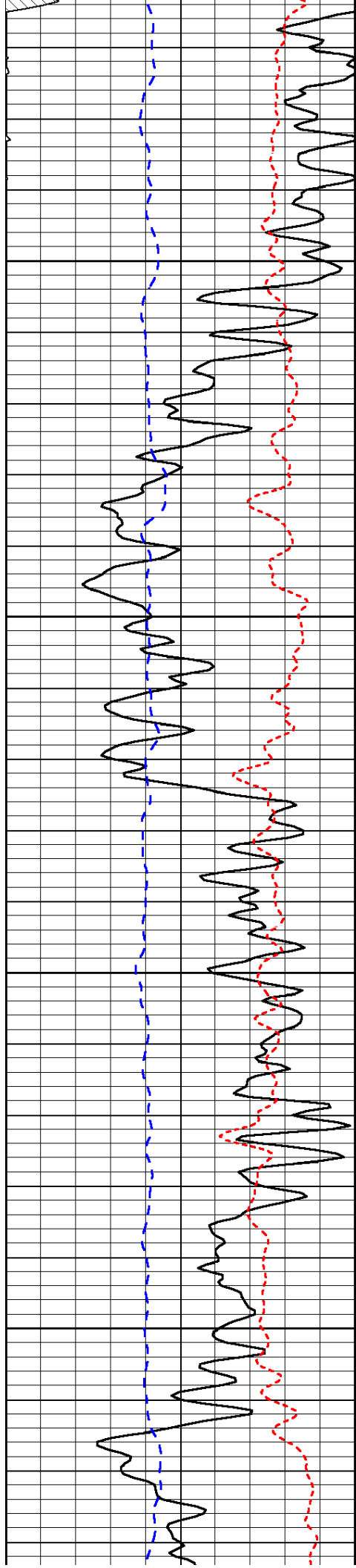
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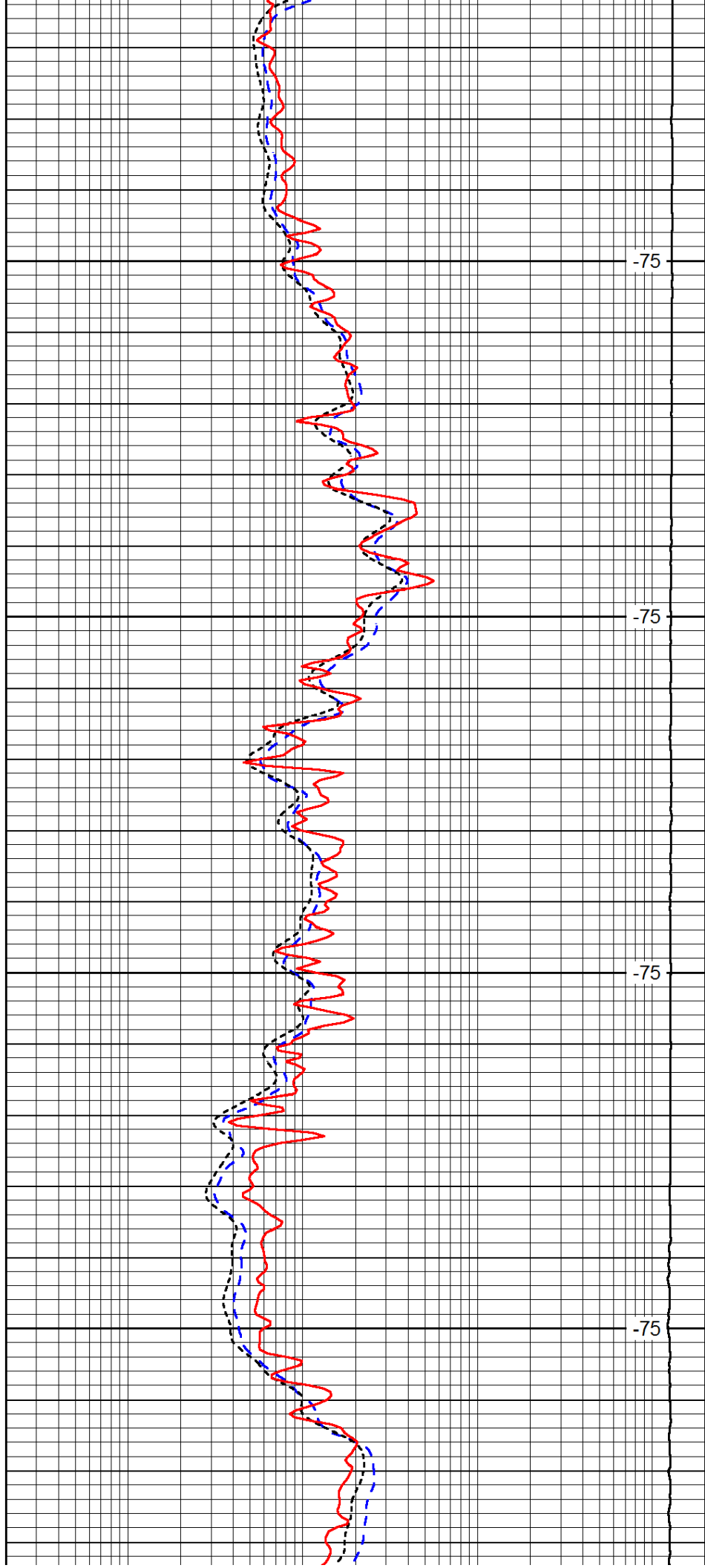


800

850

900

950

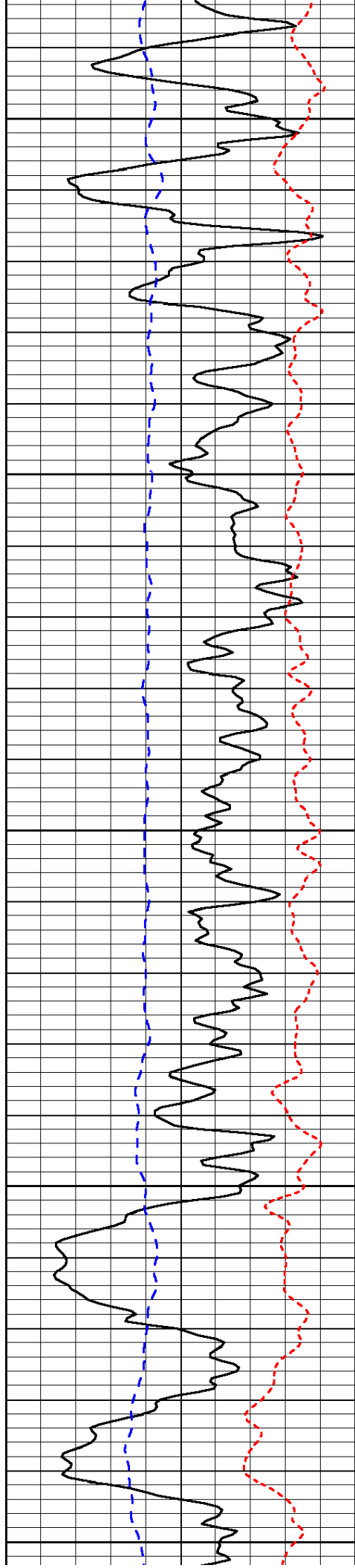


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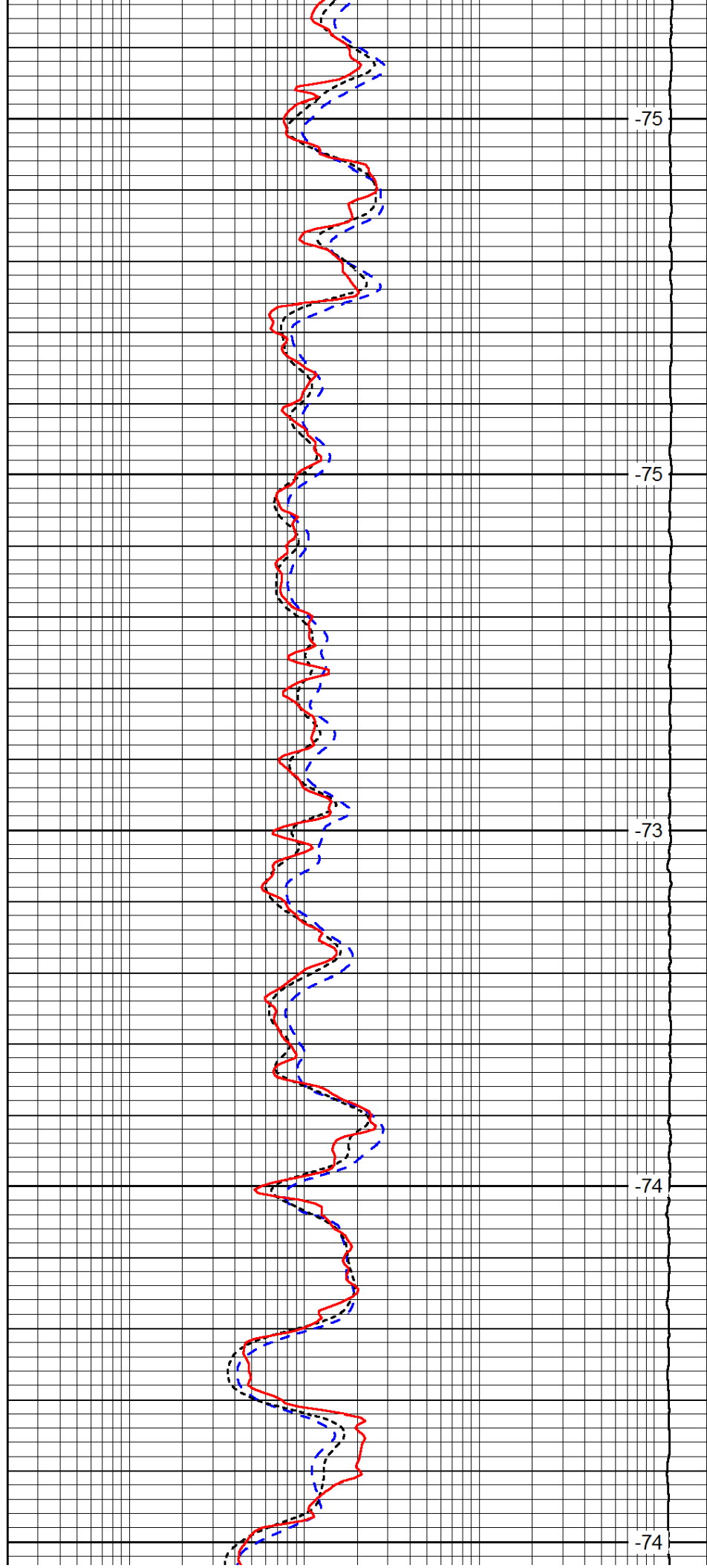
1000

1050

1100

1150

1200



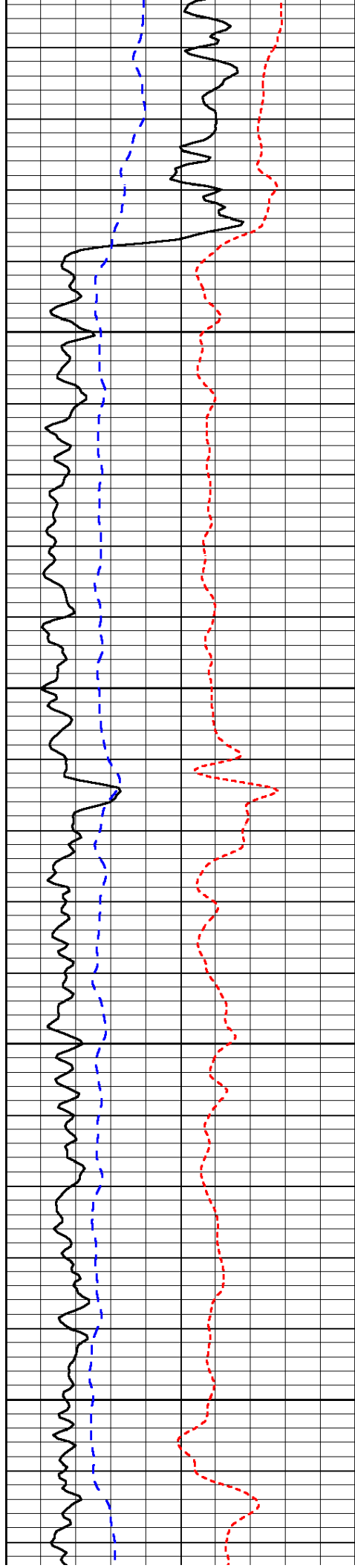
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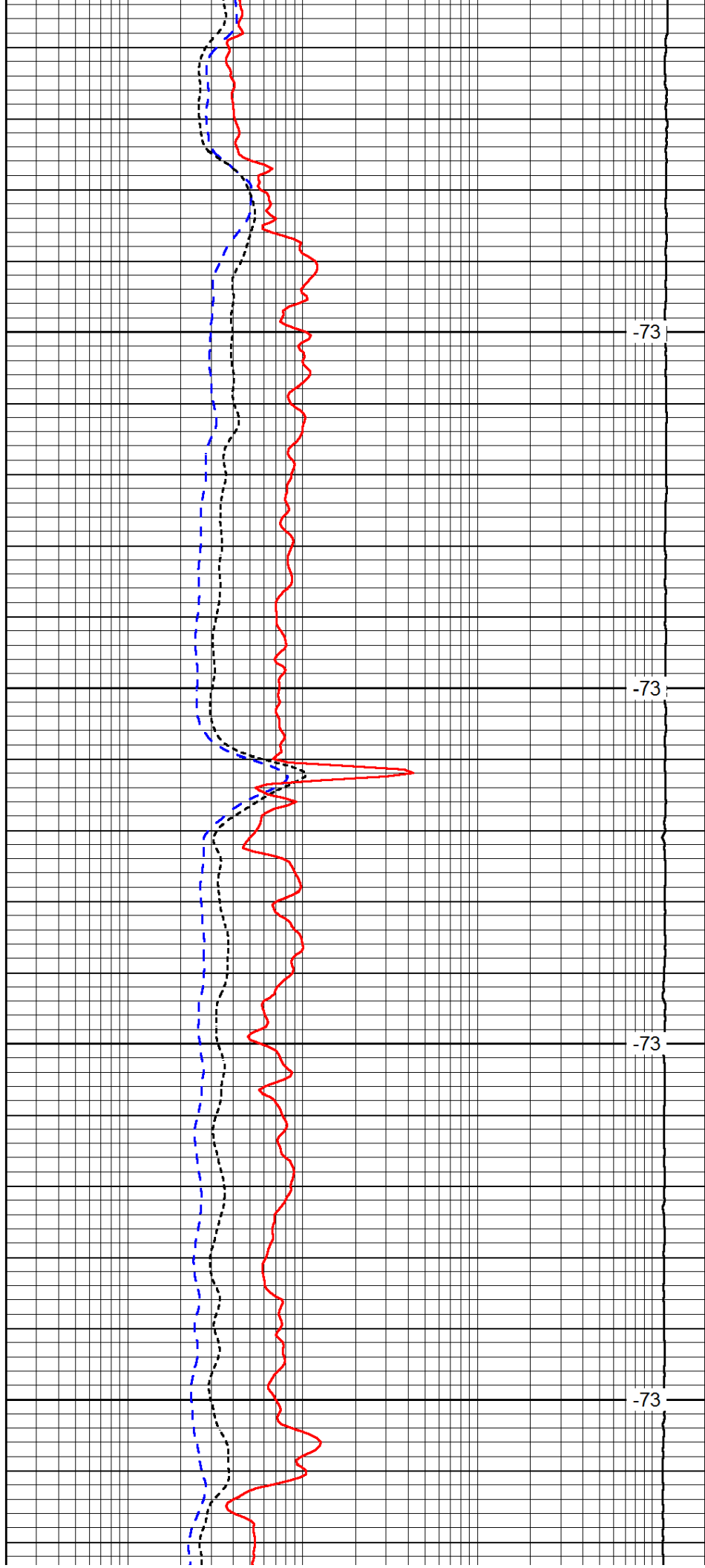


1250

1300

1350

1400

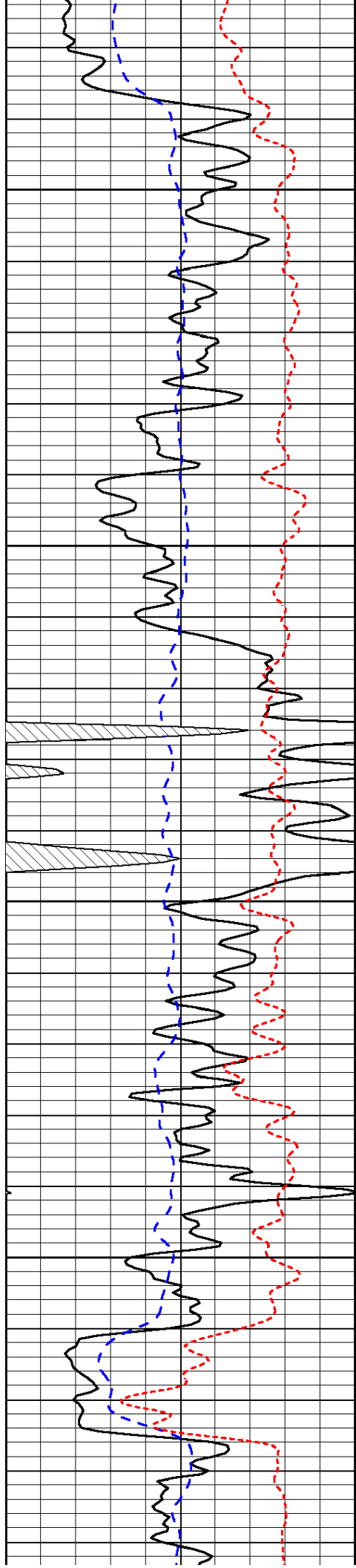


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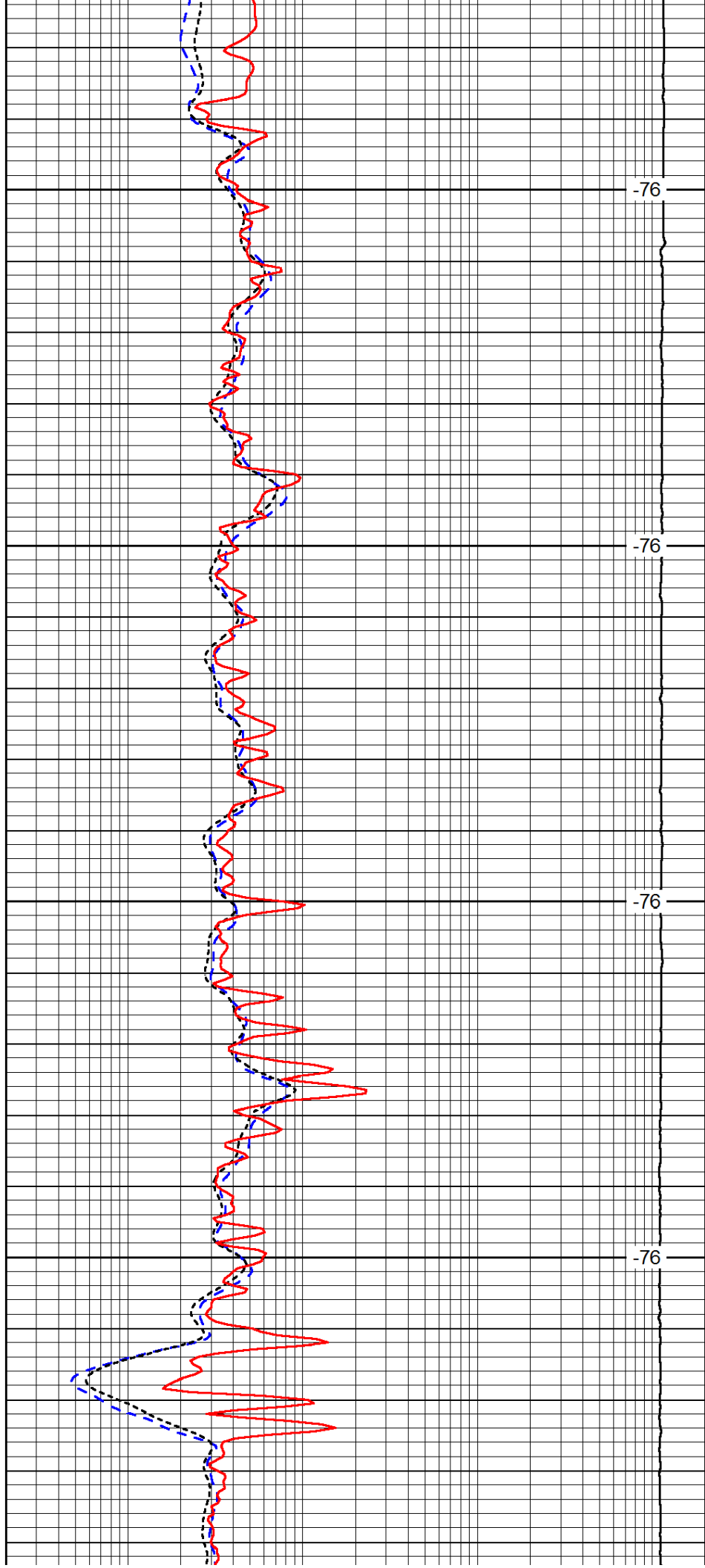


1450

1500

1550

1600

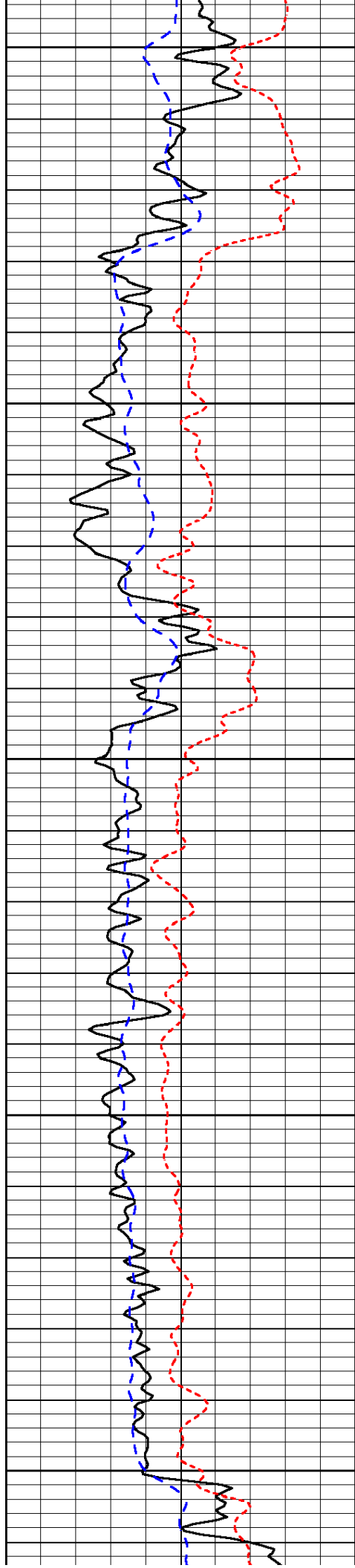


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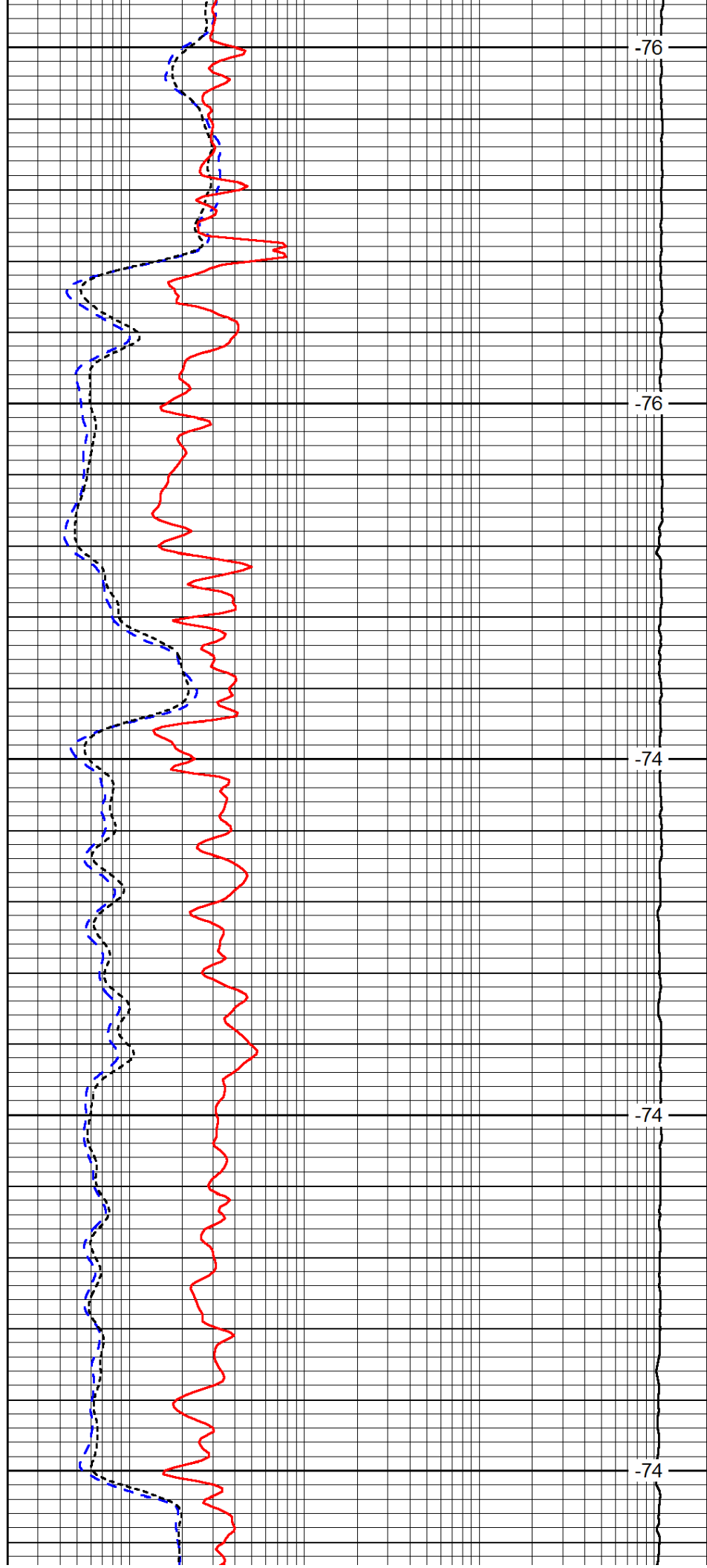
1650

1700

1750

1800

1850



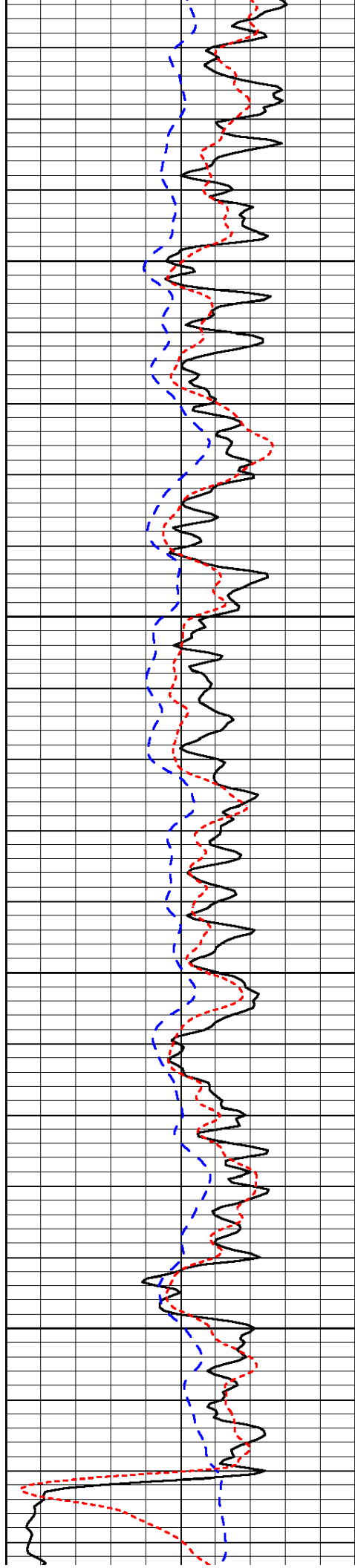
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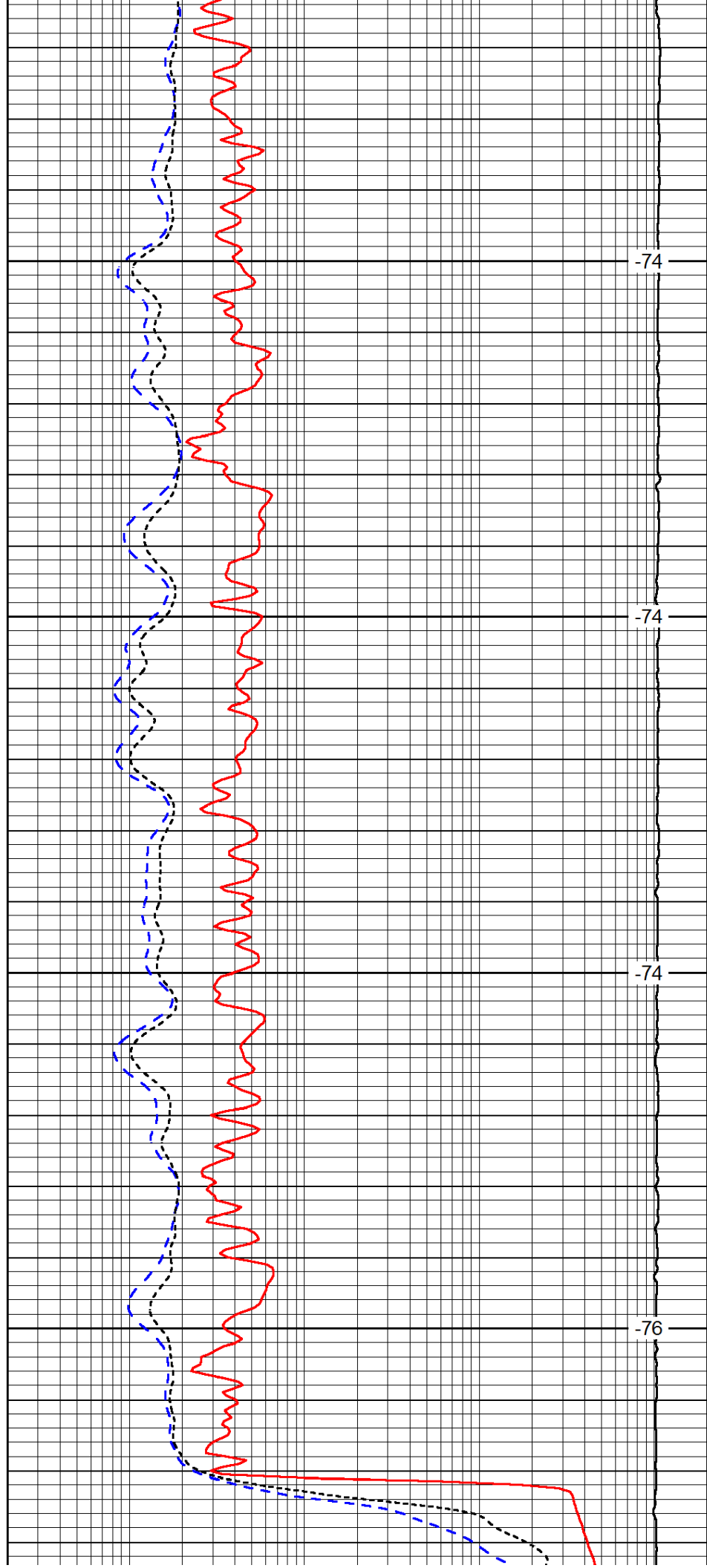


1900

1950

2000

2050

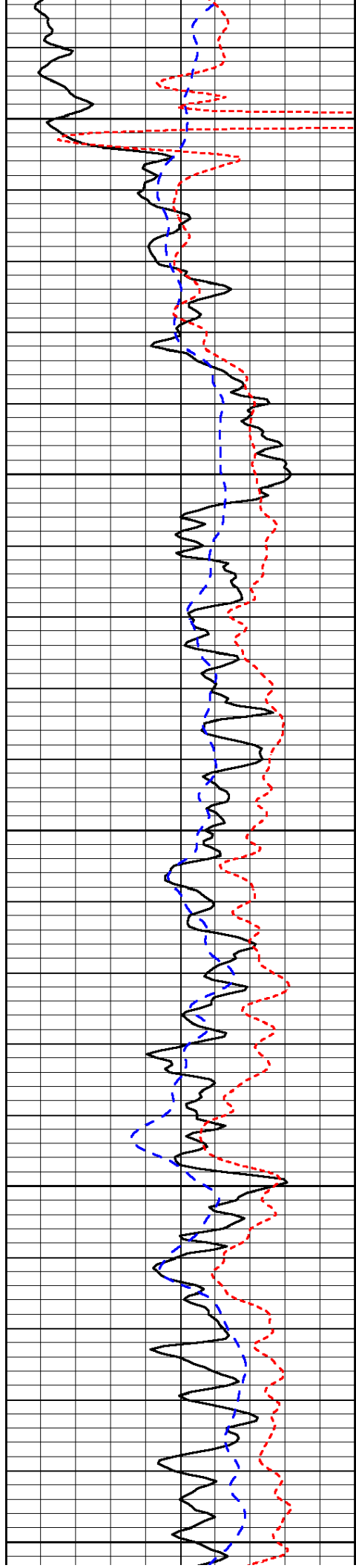


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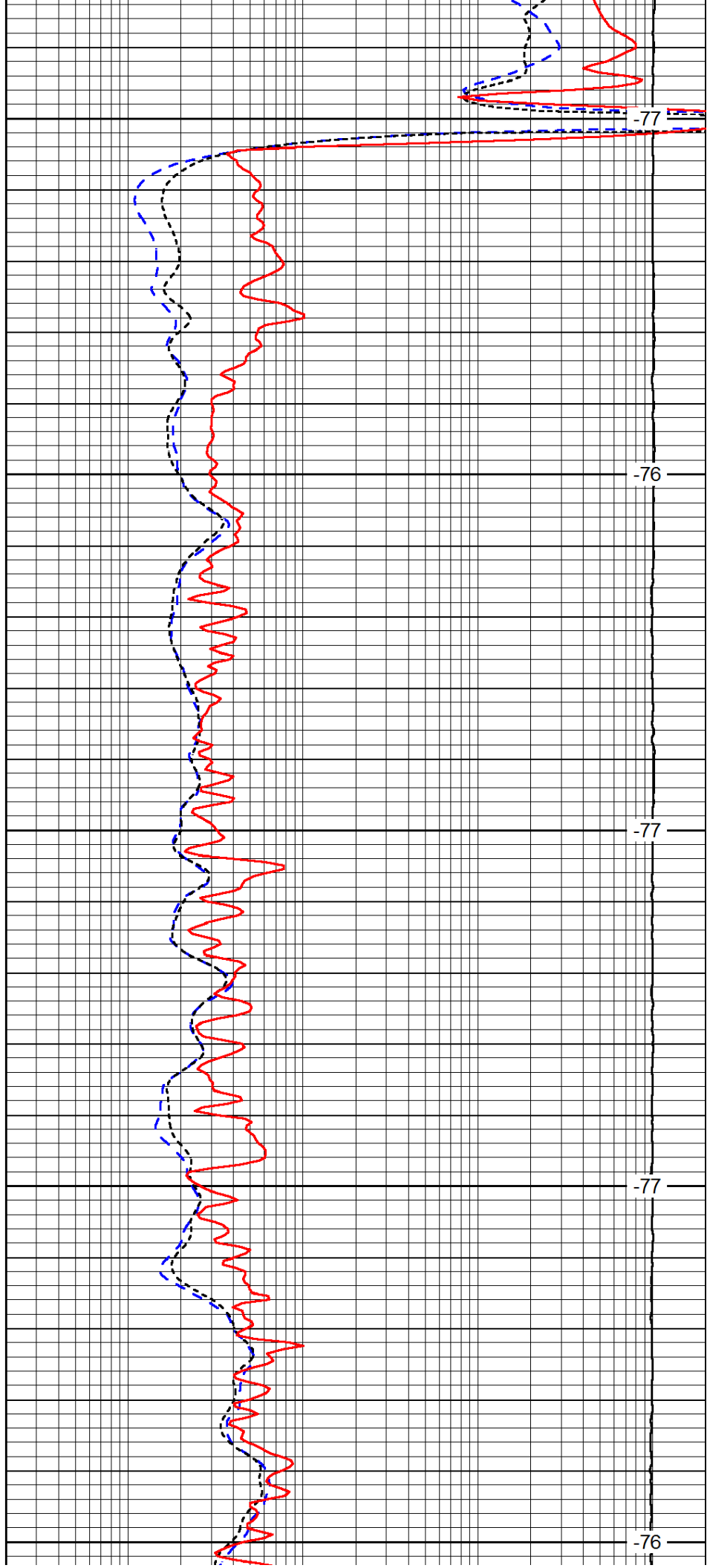
2100

2150

2200

2250

2300



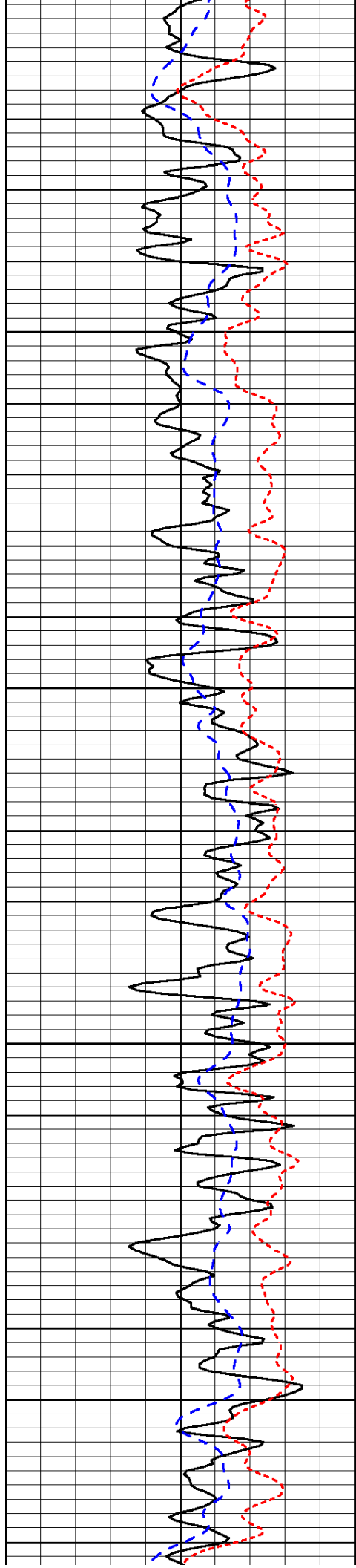
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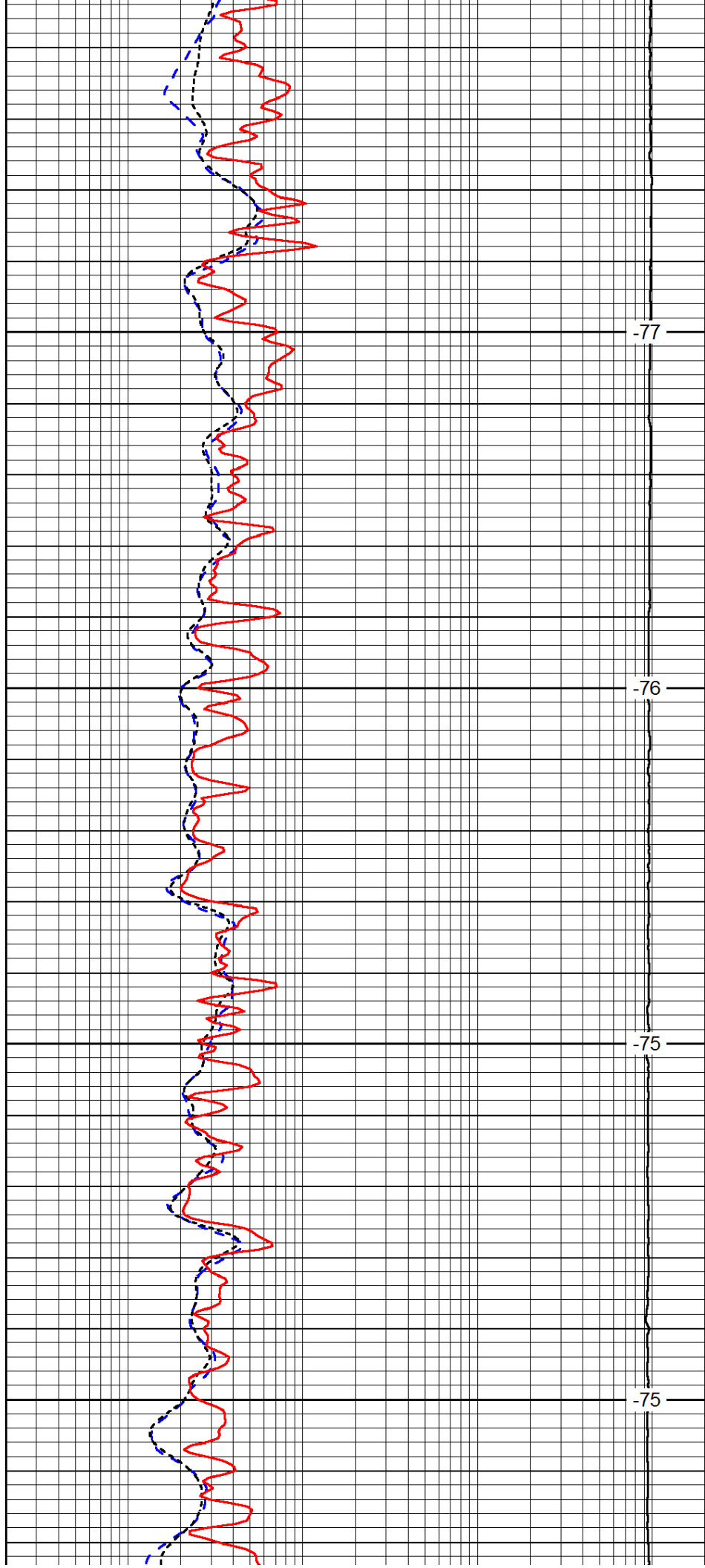


2350

2400

2450

2500

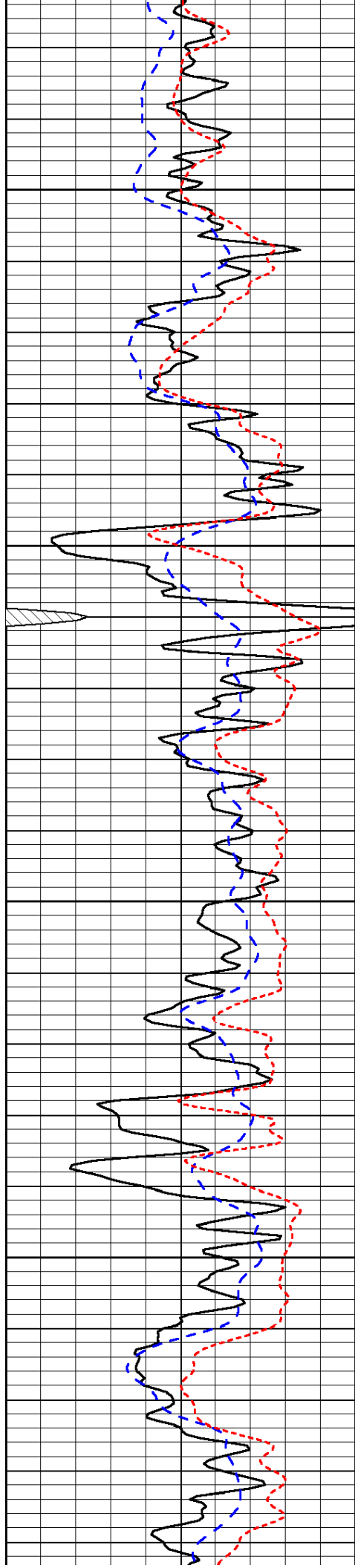


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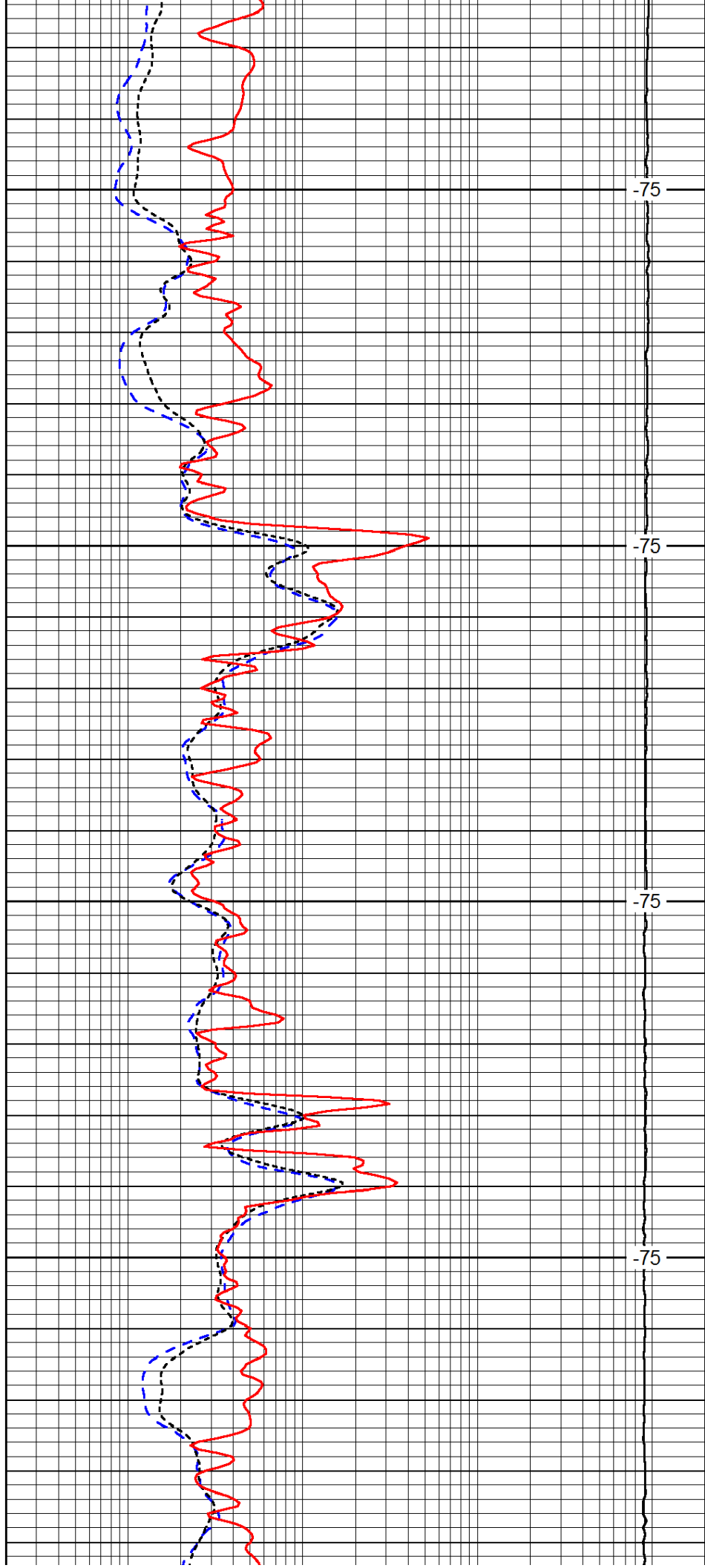


2550

2600

2650

2700

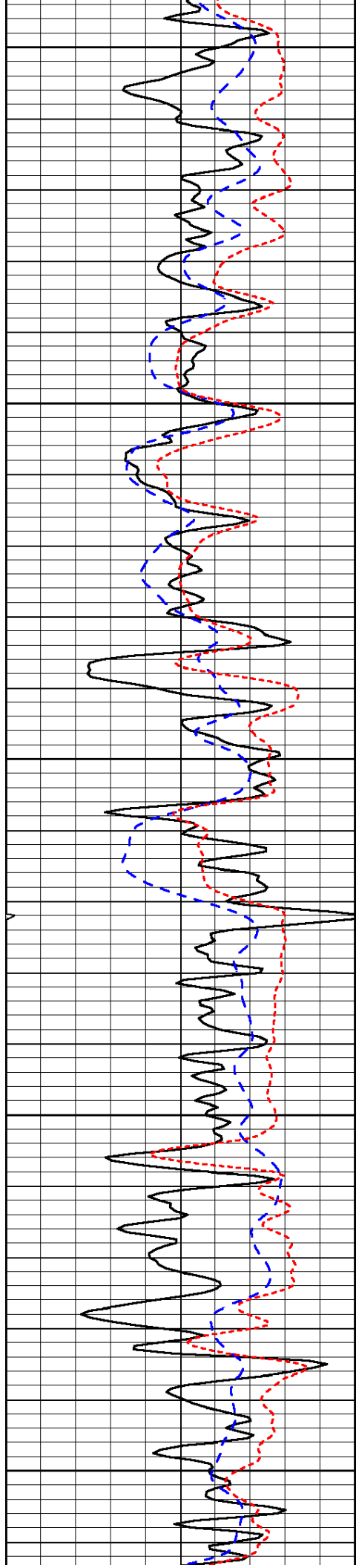


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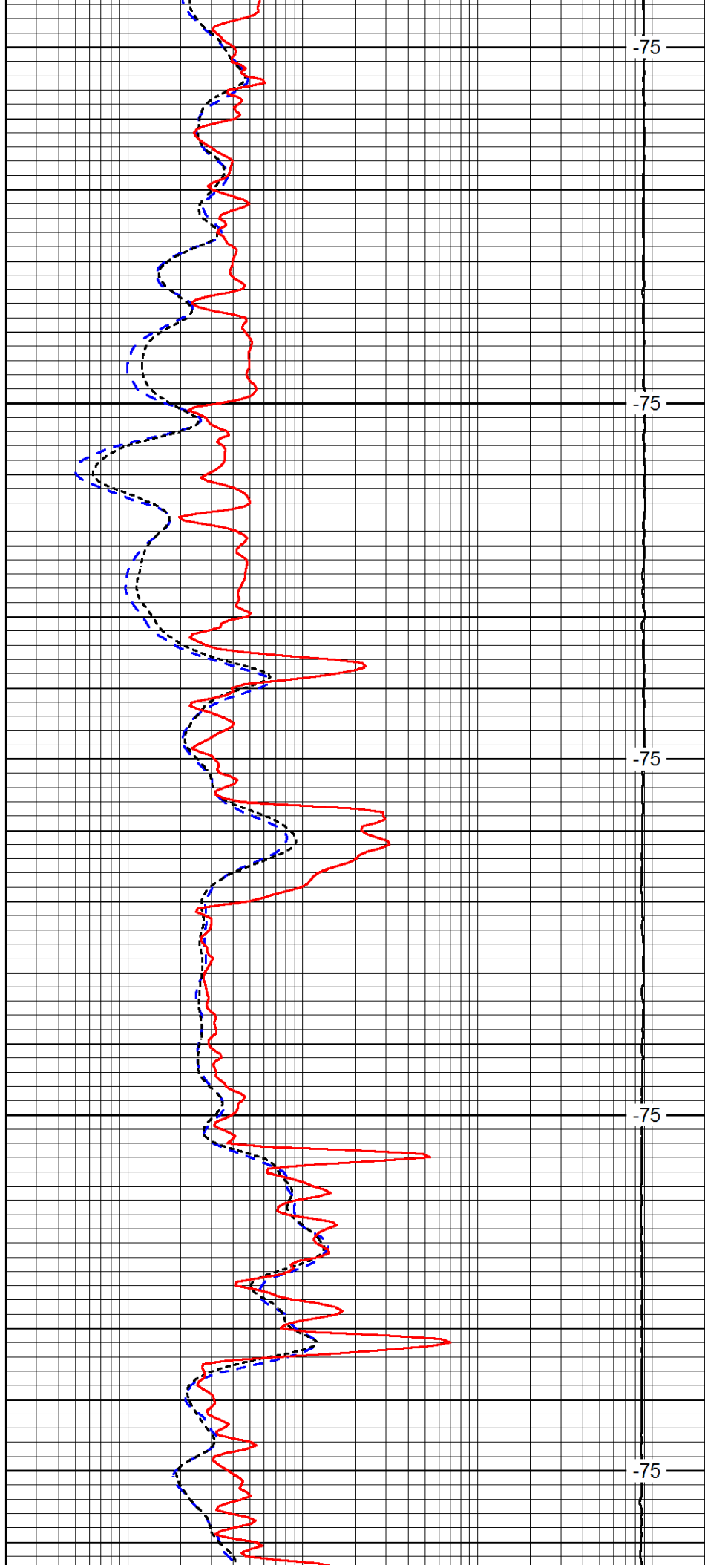
2750

2800

2850

2900

2950



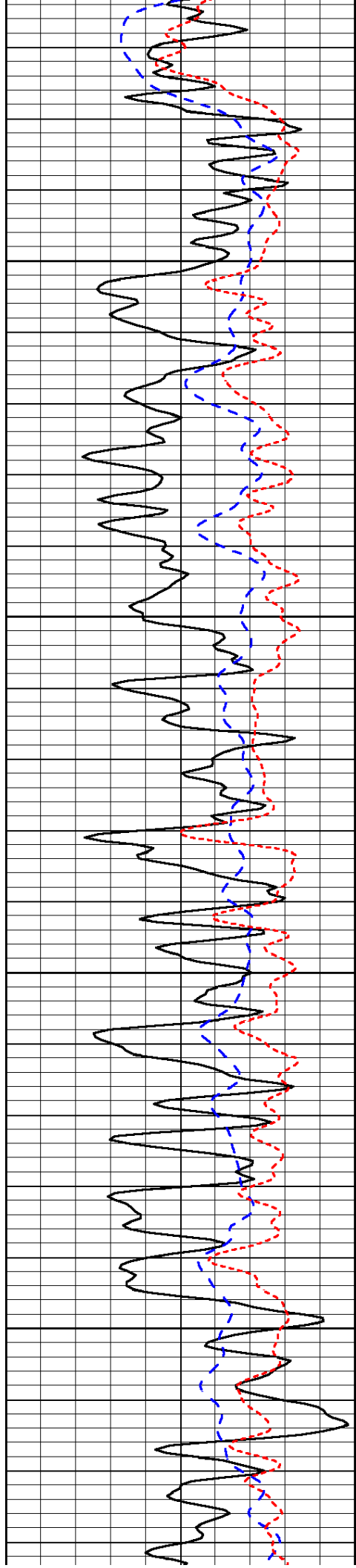
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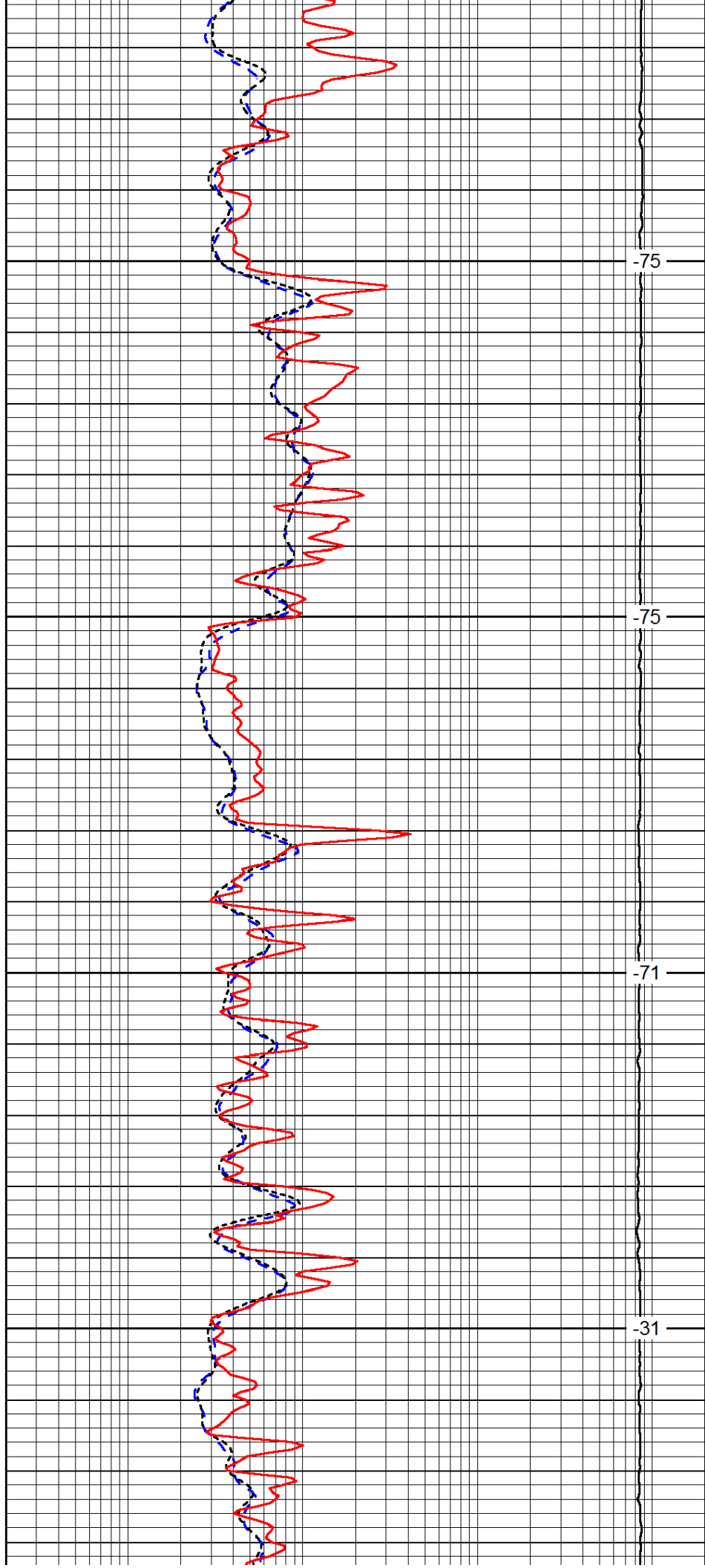


3000

3050

3100

3150

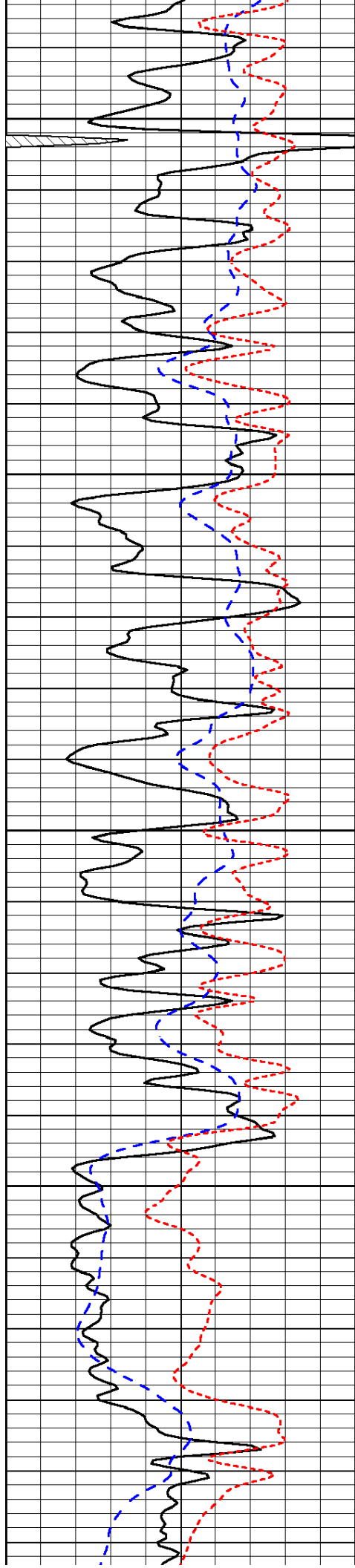


-75

-75

-71

-31



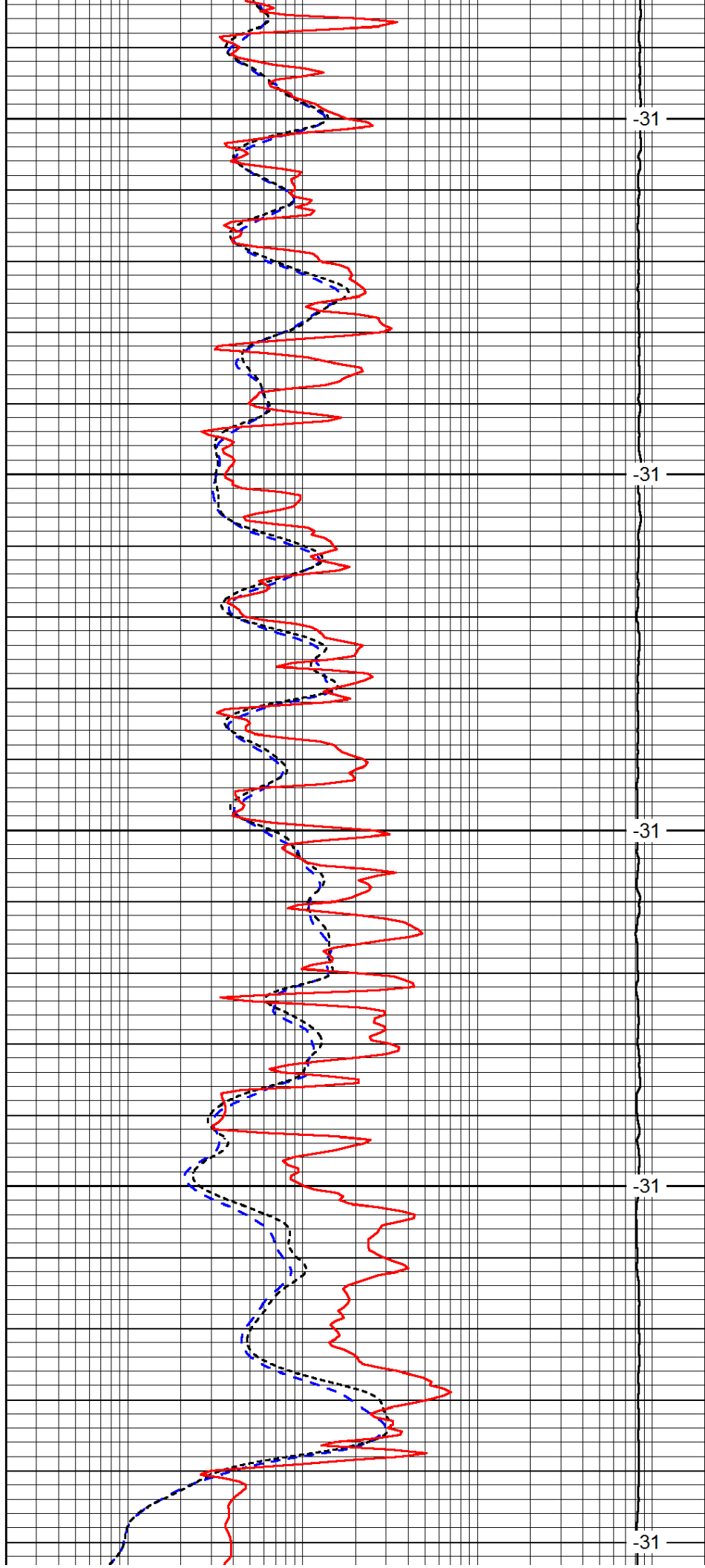
3200

3250

3300

3350

3400



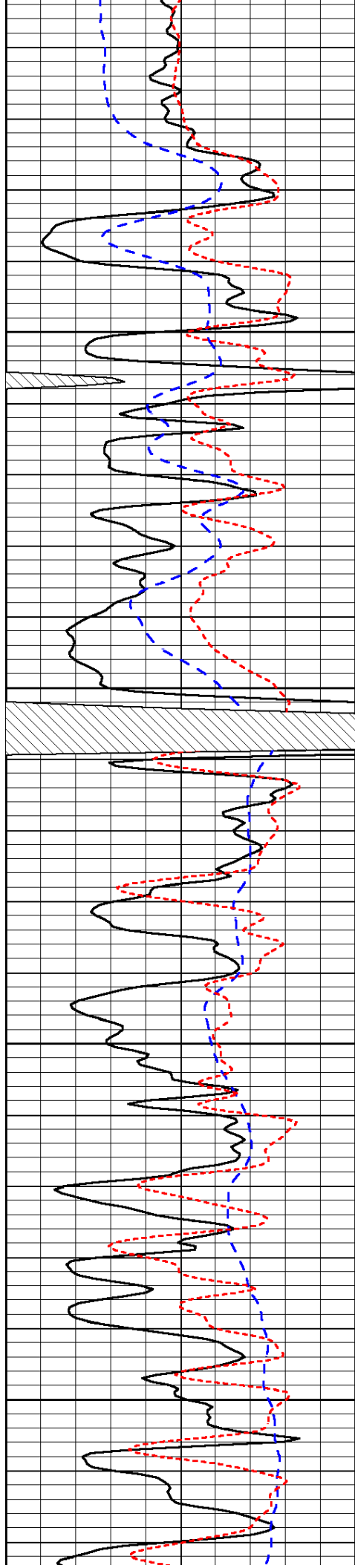
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-31

-31

-31

-31

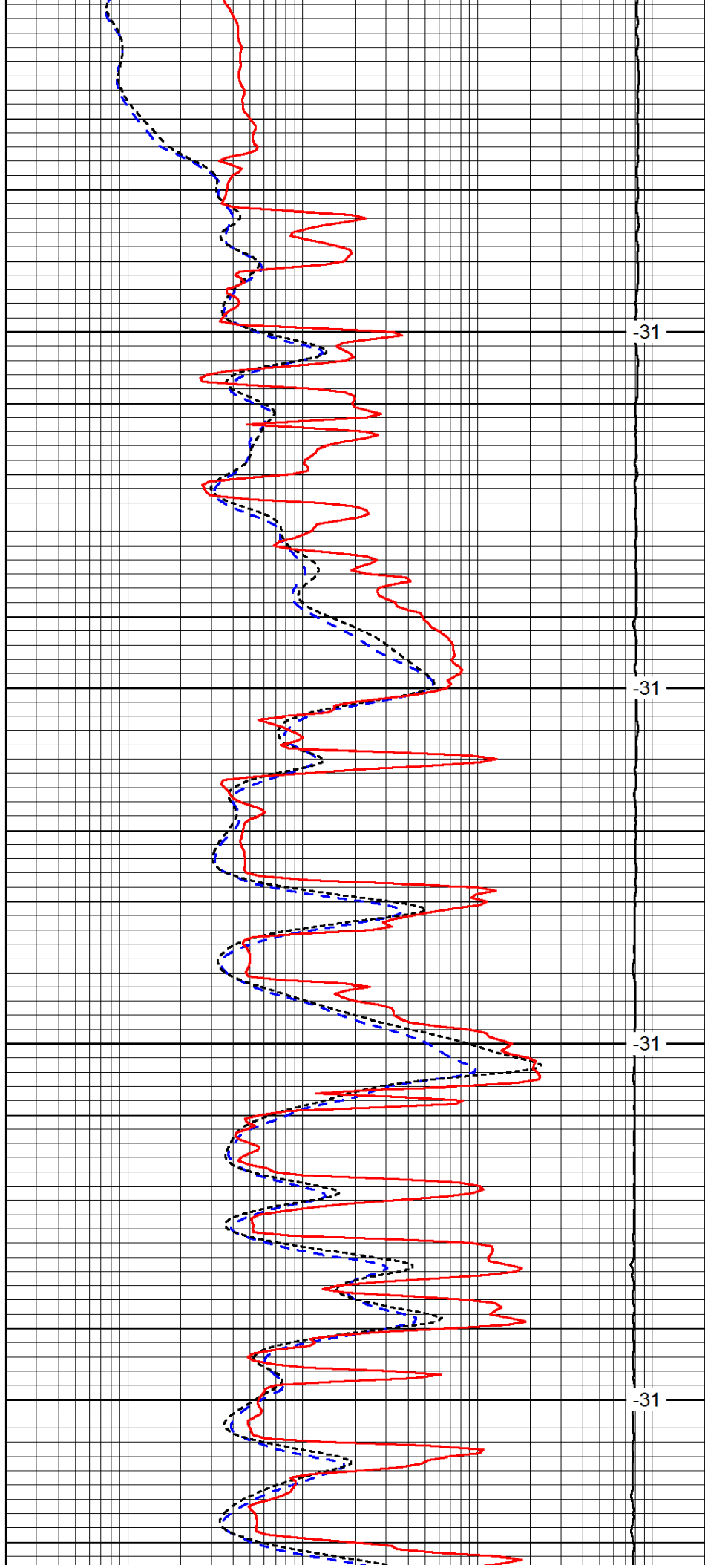


3450

3500

3550

3600

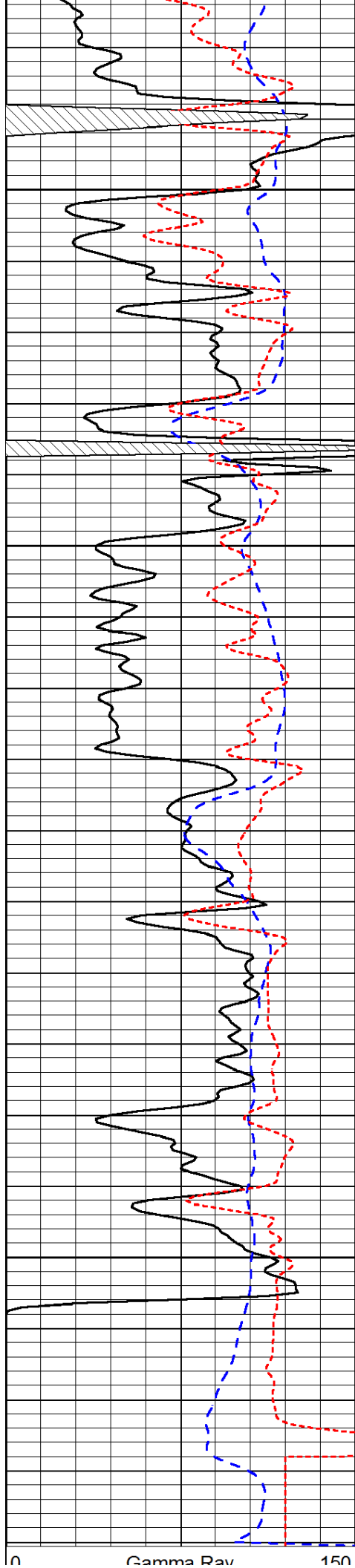


-31

-31

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-31



3650

3700

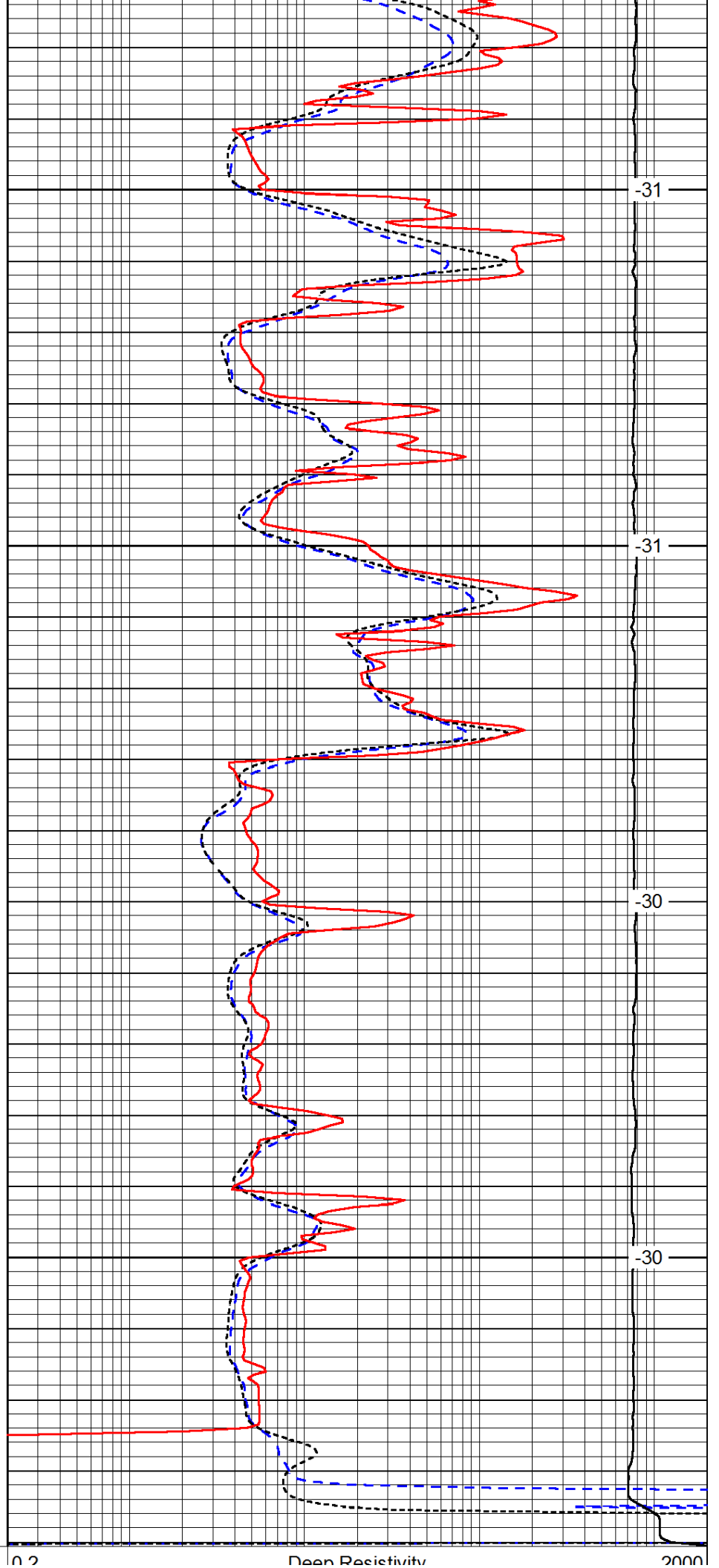
3750

3800

Gamma Ray

150

0



-31

-31

-30

-30

Deep Resistivity

2000

0

0	Gamma Ray	150
-200	SP (mV)	0
-160	RxoRt	40

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