



Dual Induction Log

DIGITAL LOG (785) 625-3858

API No.	Company Murfin Drilling Co., Inc.		
	Well Kuhlman "D" No. 1-35		
	Field		
	County Logan	State	Kansas
15-109-20,965-00-00	Location SW NE NE NW 335' FNL & 2,200' FWL	Other Services CNL/CDL MEL/BHCS	
	Sec: 35	Twp: 12 S	Rge: 32 W
Permanent Datum	Ground Level	Elevation 2985	
Log Measured From	Kelly Bushing	5 Ft. Above Perm. Datum	
Drilling Measured From	Kelly Bushing	K.B. 2990 D.F. 2985 G.L. 2985	
Date	12/21/2010		
Run Number	One		
Depth Driller	4700		
Depth Logger	4704		
Bottom Logged Interval	4703		
Top Log Interval	00		
Casing Driller	8.625 @ 221		
Casing Logger	220		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	3100		
Density / Viscosity	9.2 49		
pH / Fluid Loss	10.5 7.2		
Source of Sample	Flowline		
Rm @ Meas. Temp	1.4 @ 57		
Rmf @ Meas. Temp	1.05 @ 57		
Rmc @ Meas. Temp	1.89 @ 57		
Source of Rmf / Rmc	Charts		
Rm @ BHT	.65 @ 123		
Operating Rig Time	5 Hours		
Max Rec. Temp. F	123		
Equipment Number	10		
Location	Hays		
Recorded By	J Schuler	J Long	
Witnessed By	Jeff Christian		

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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.

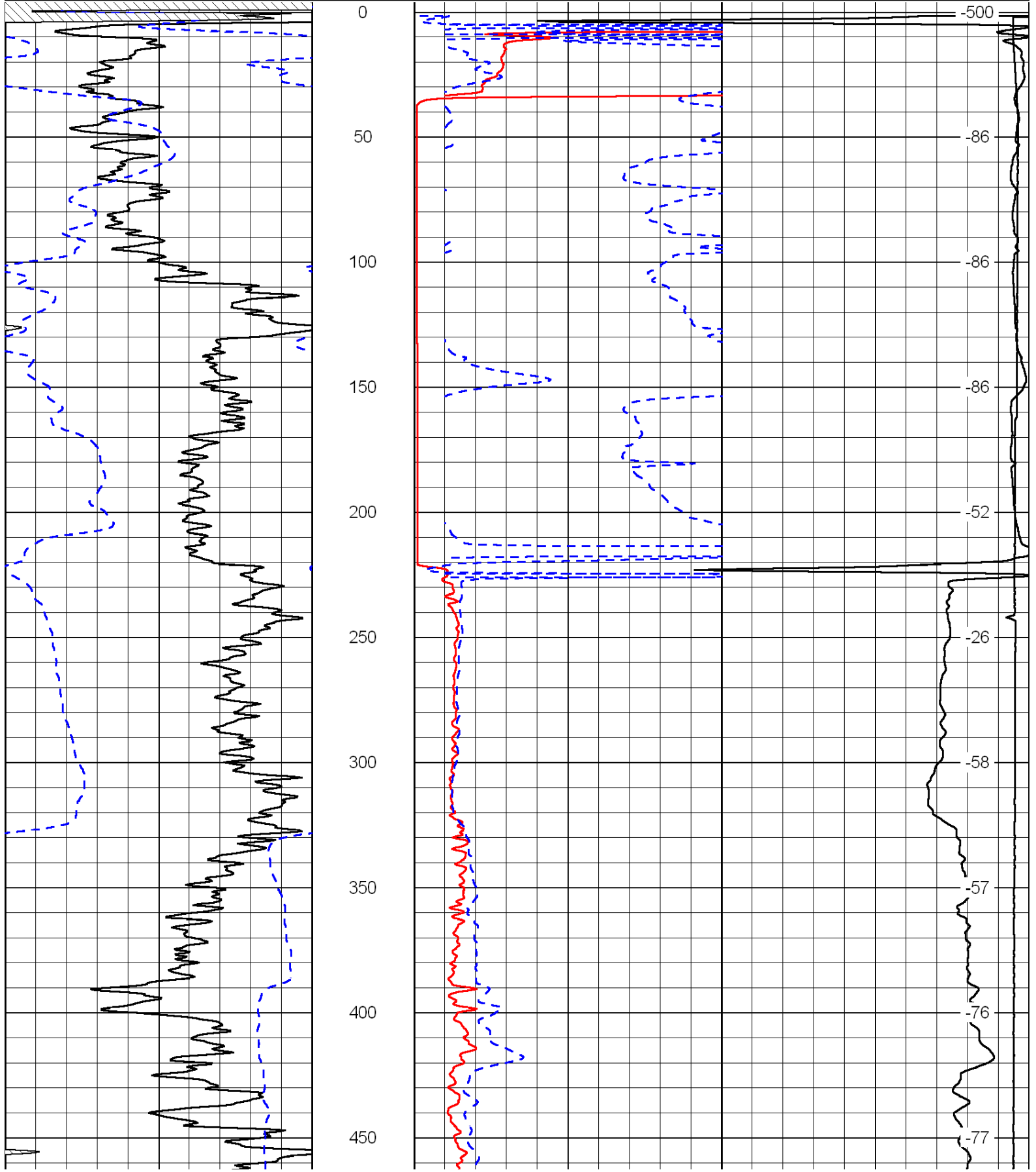
Comments

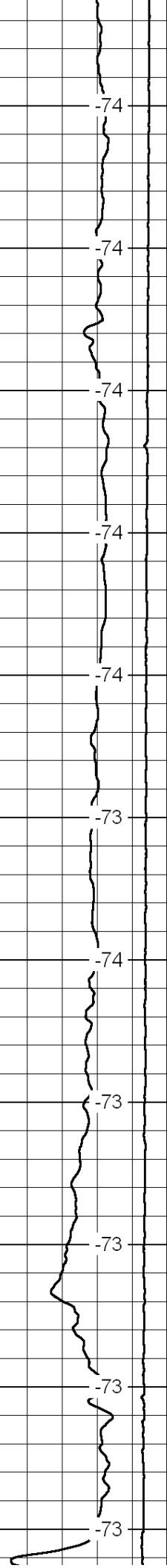
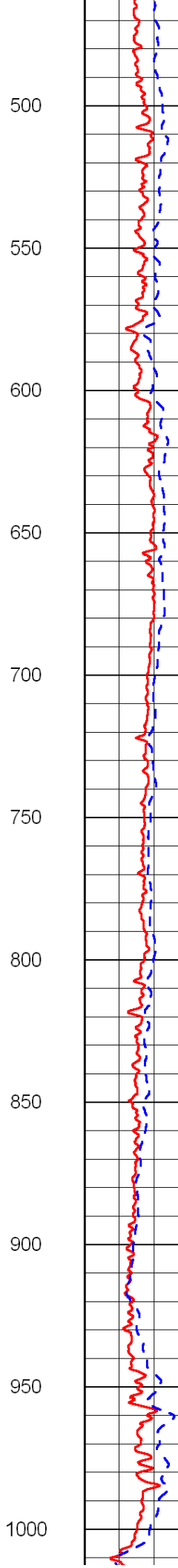
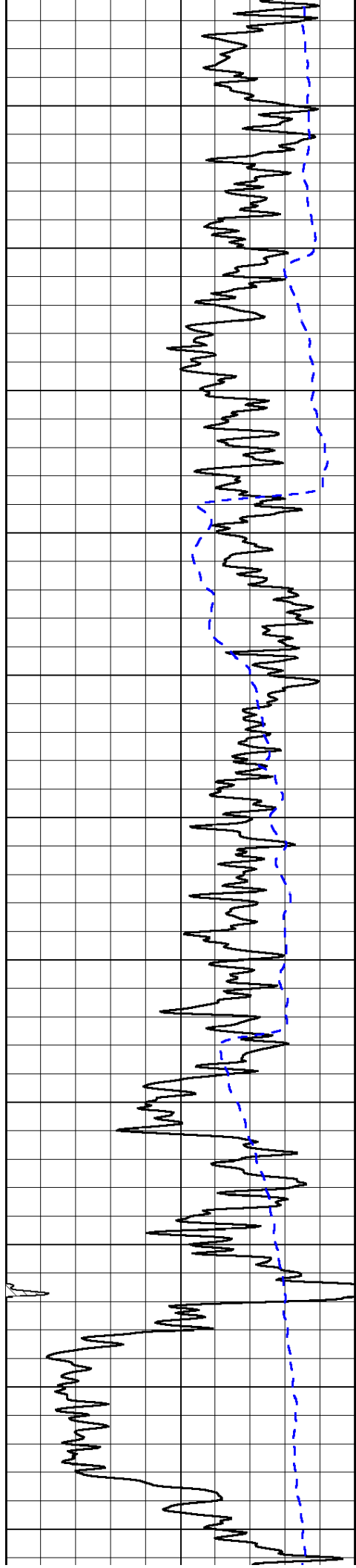
Thank you for using Log-Tech, Inc.
(785) 625-3858

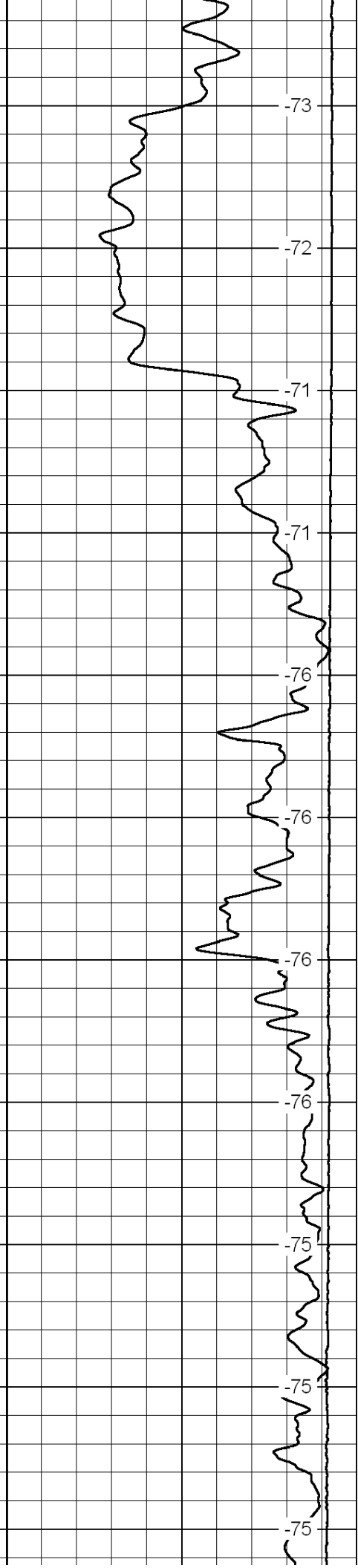
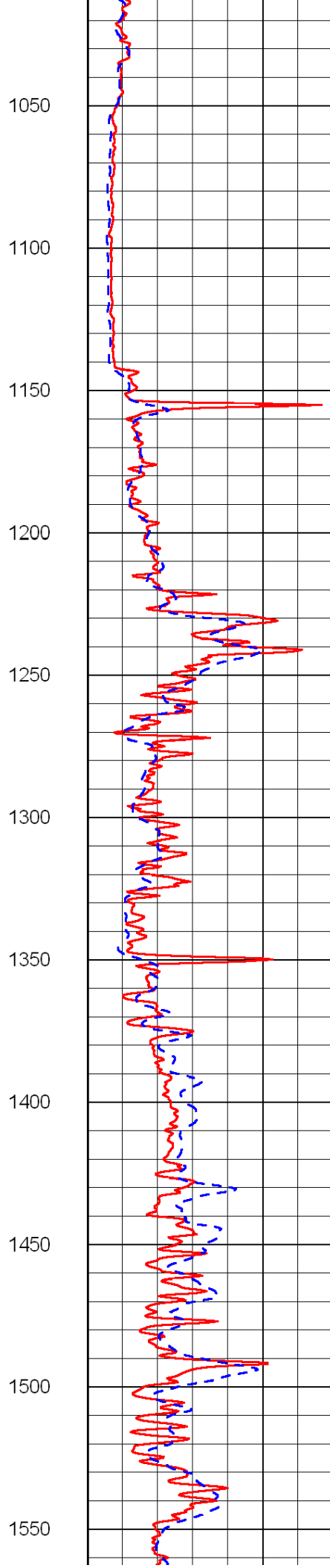
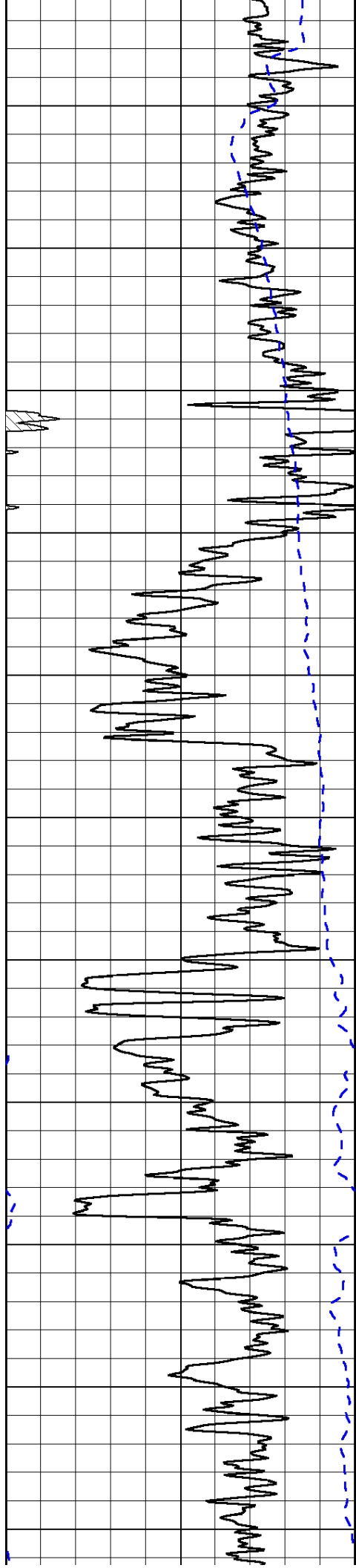
Oakley, South 10 to Topeka Road, 1/2 East, South Into

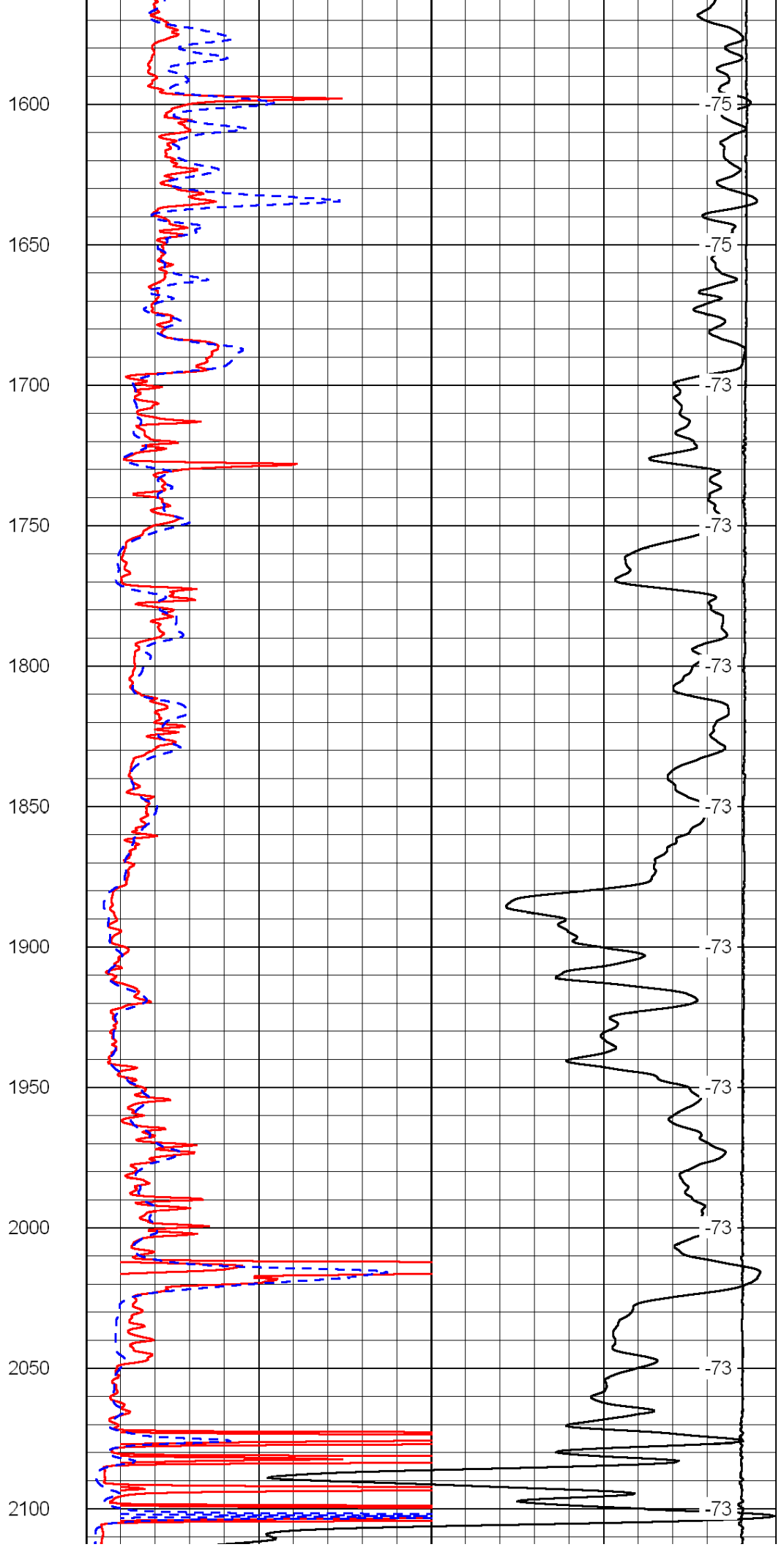
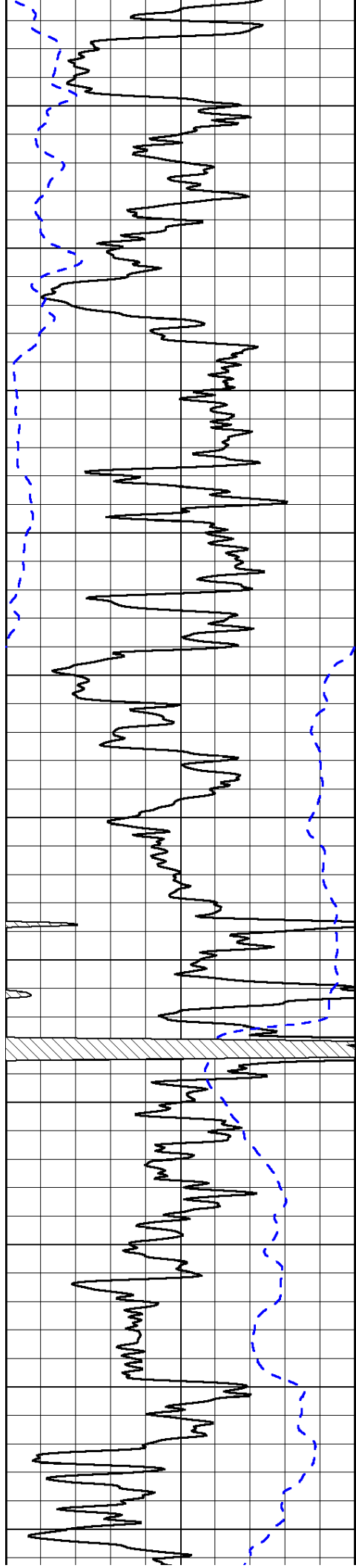
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Dataset Creation: Tue Dec 21 21:08:29 2010
Charted by: Depth in Feet scaled 1:600

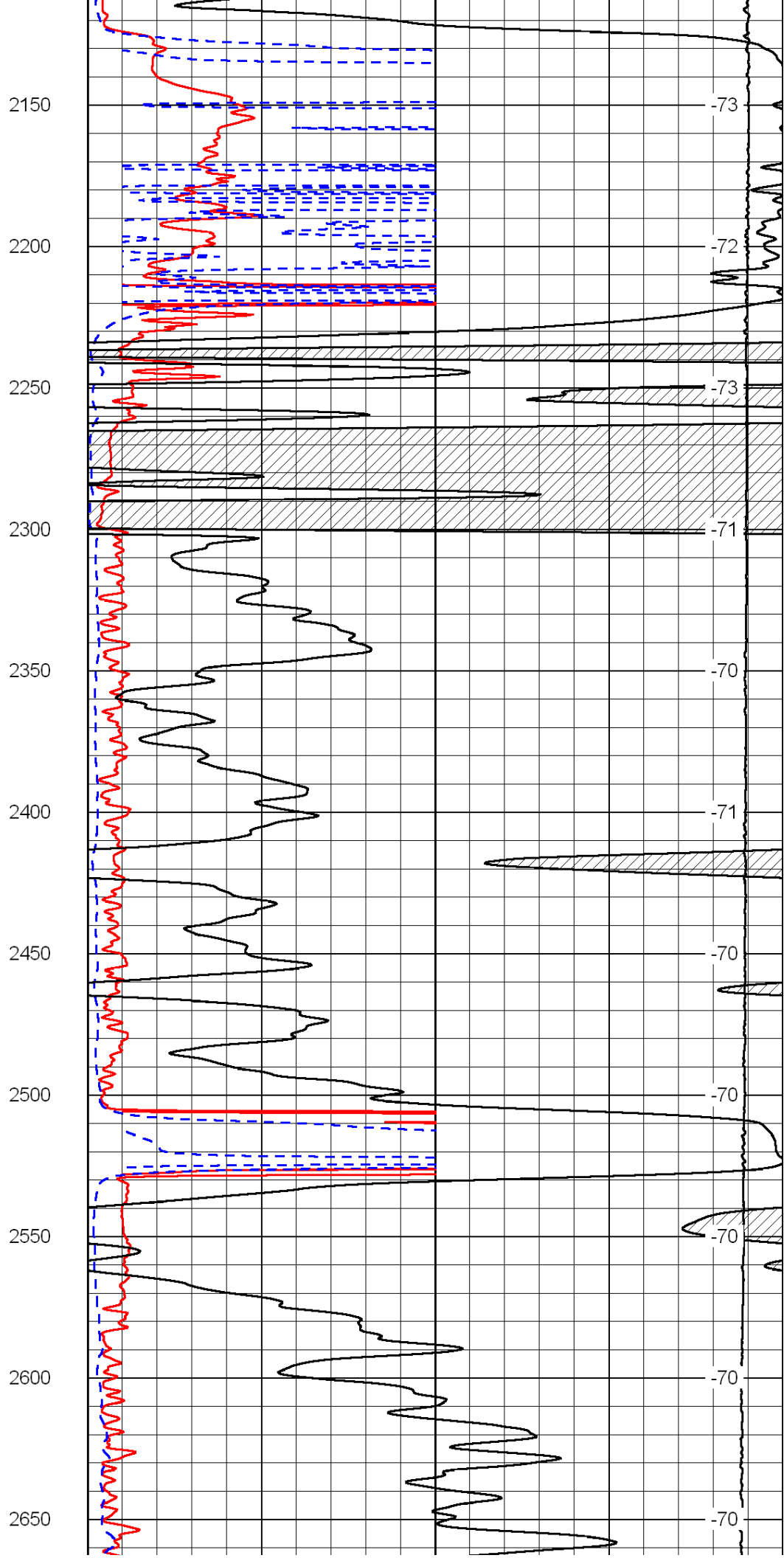
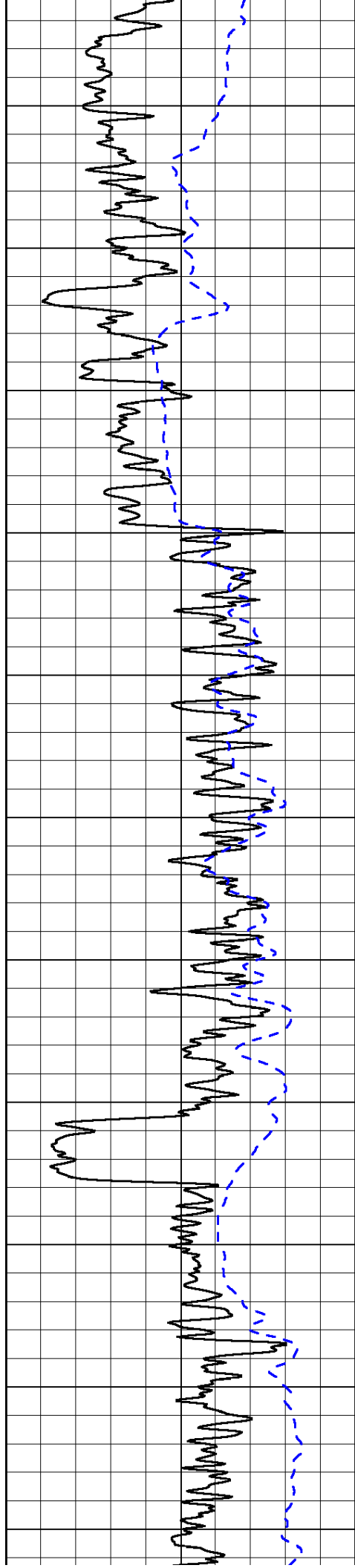
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0	Gamma Ray	150	0	Shallow Resistivity	50	LSPD		
-200	SP (mV)	0	0	Deep Resistivity	50			
			1000	Conductivity		0		
			15000	Line Tension		0		
			50	Shallow Resistivity	500			
			50	Deep Resistivity	500			

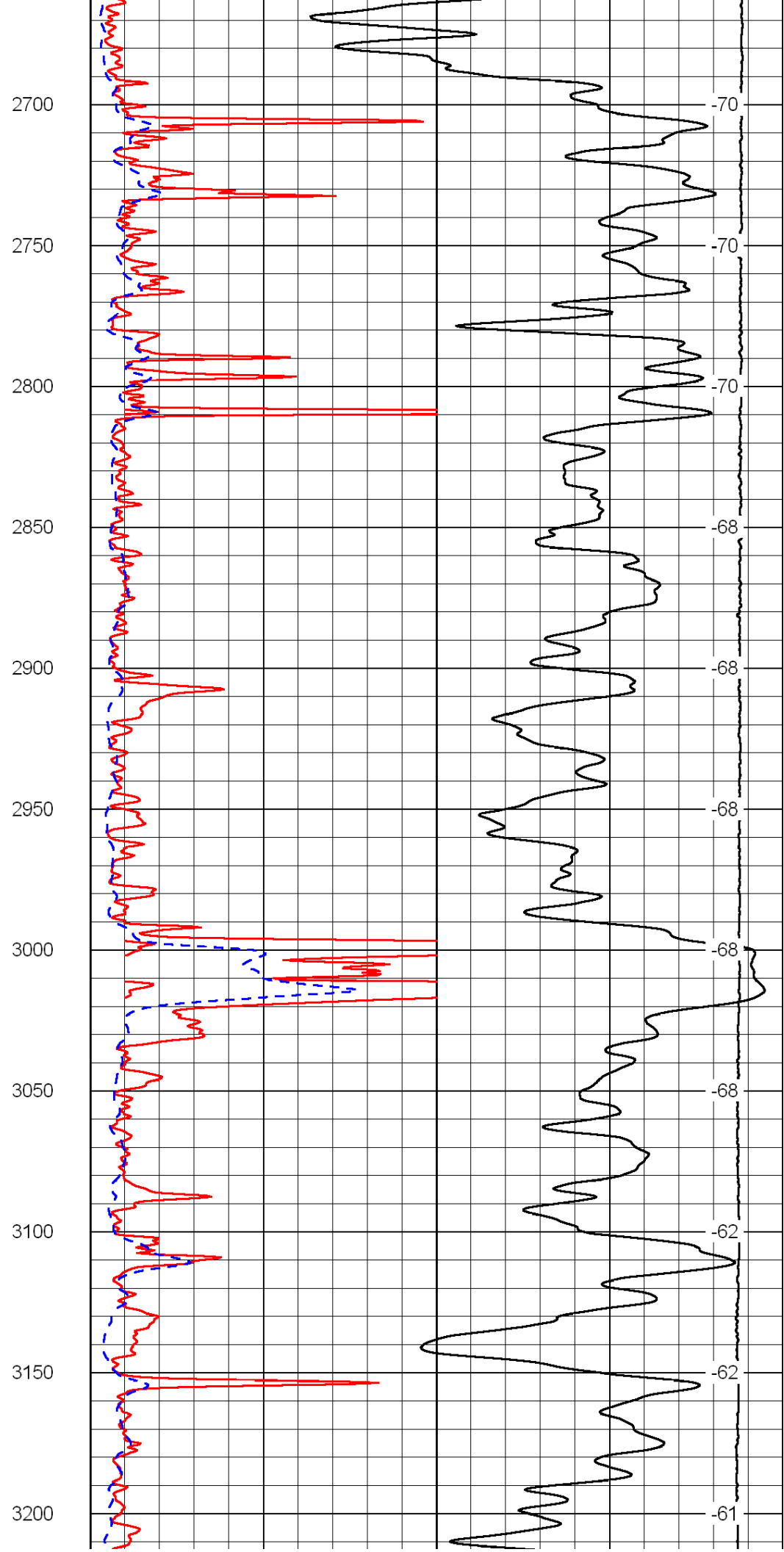
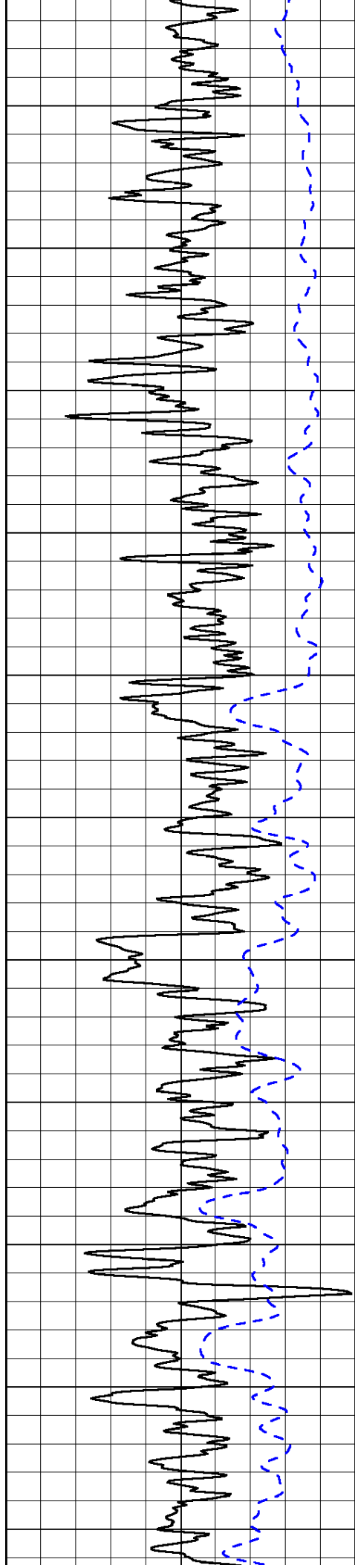


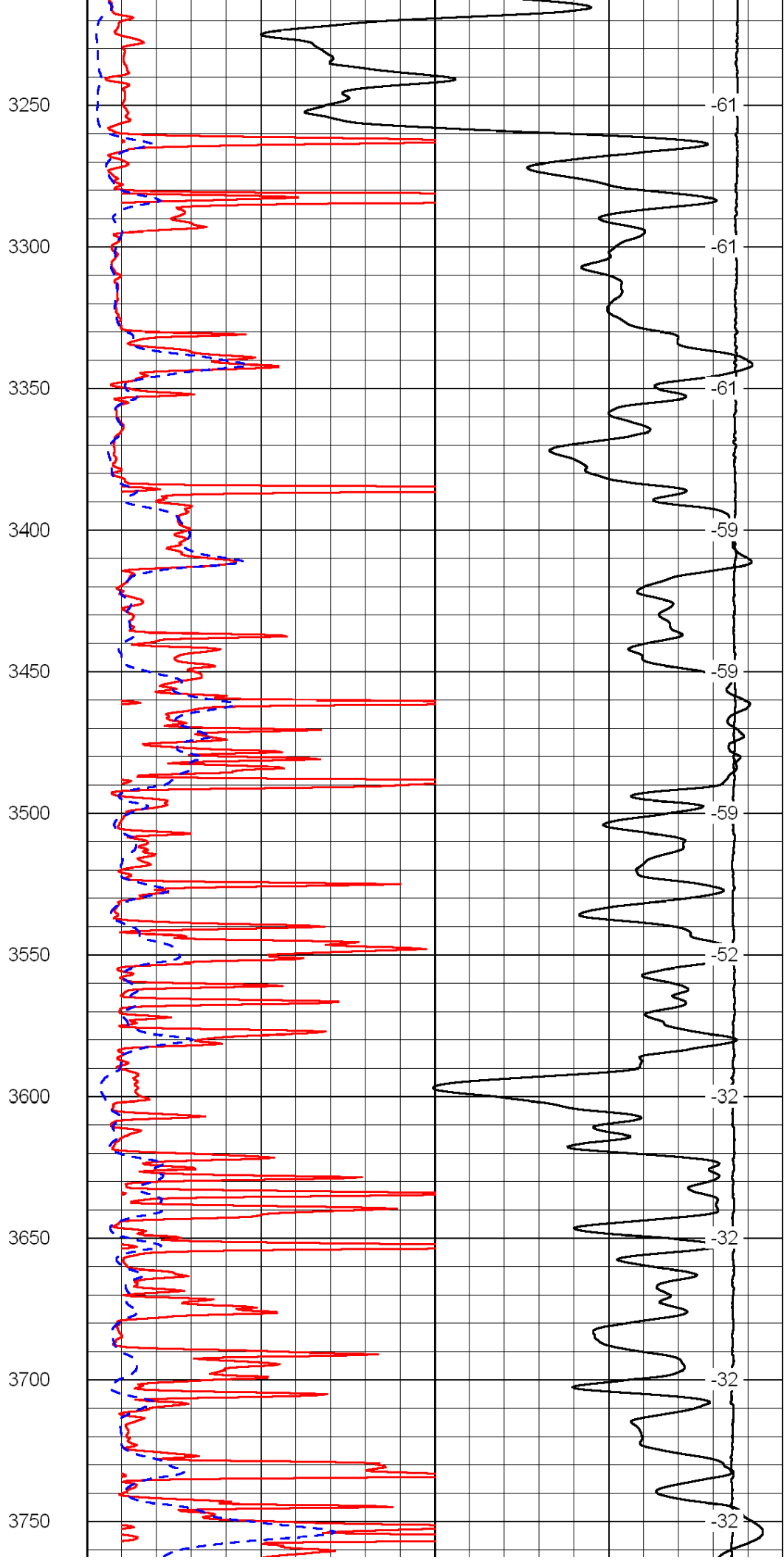
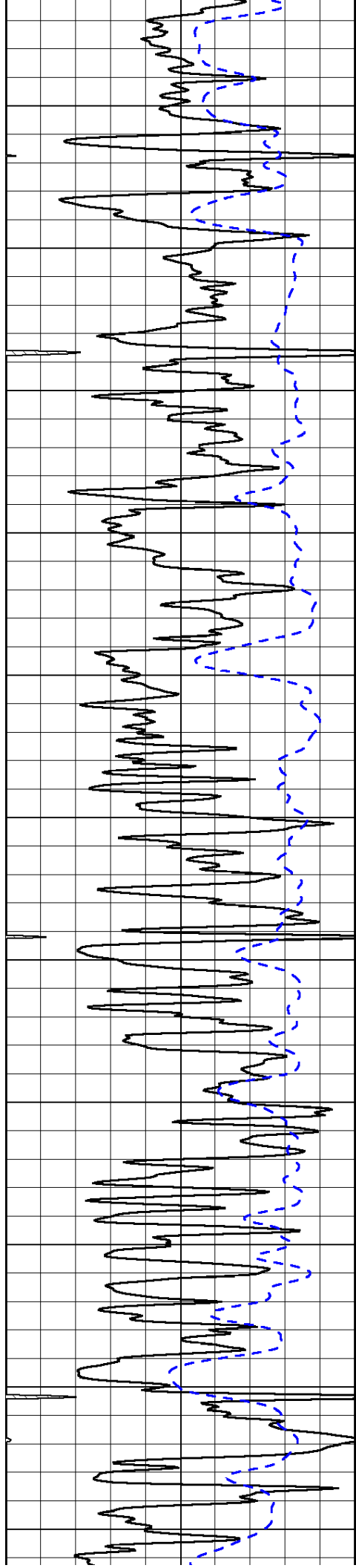


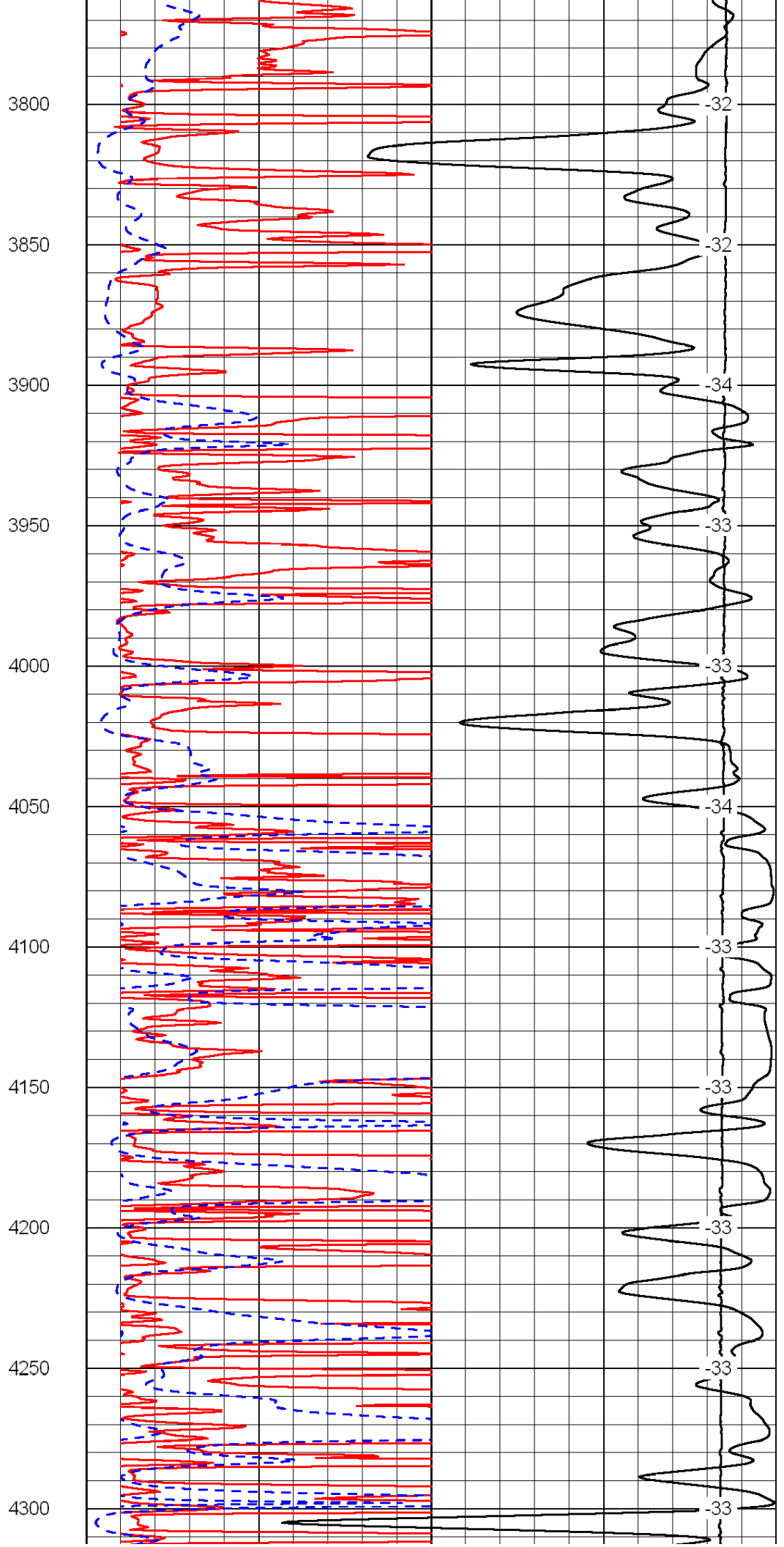
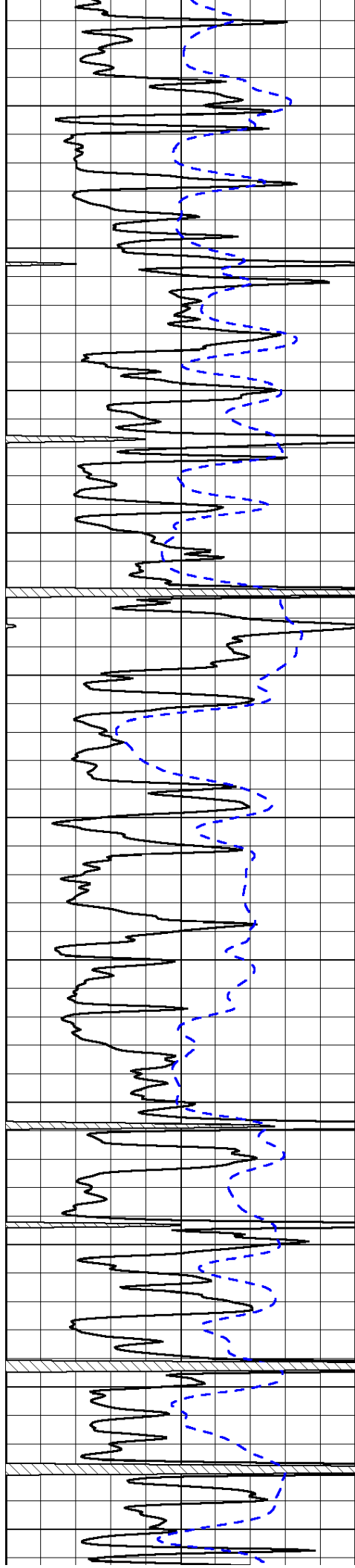


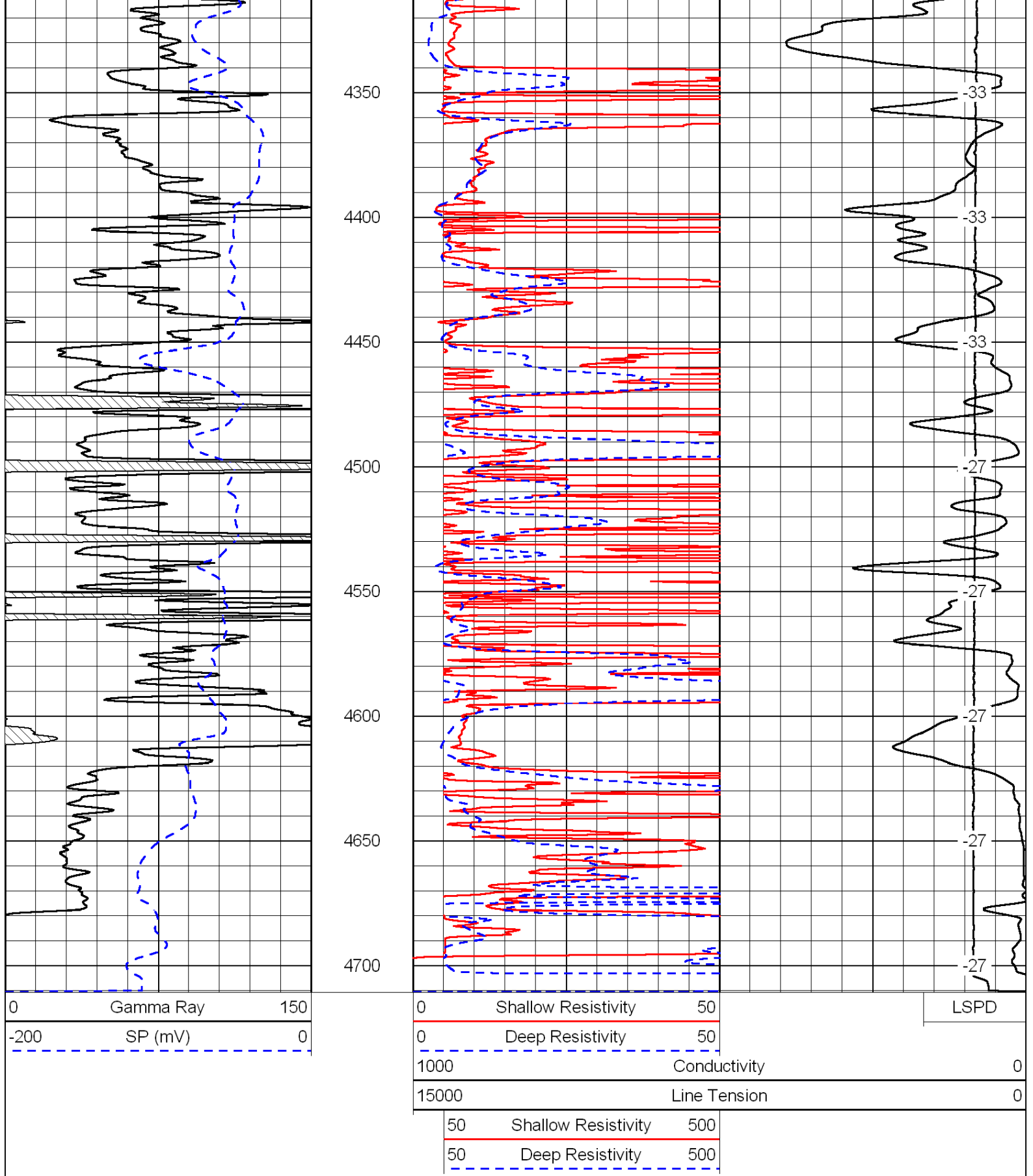




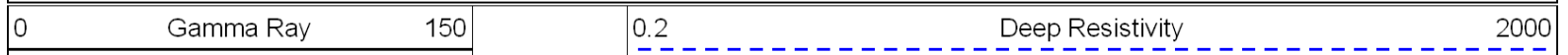








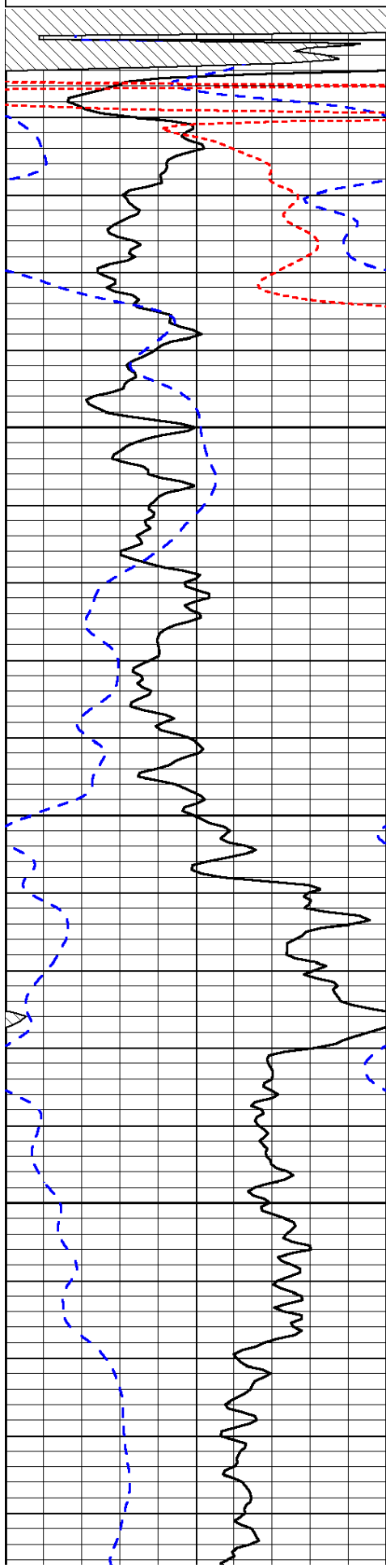
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-200	SP (mV)	0
-160	Rxo / Rt	40

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

LSPD

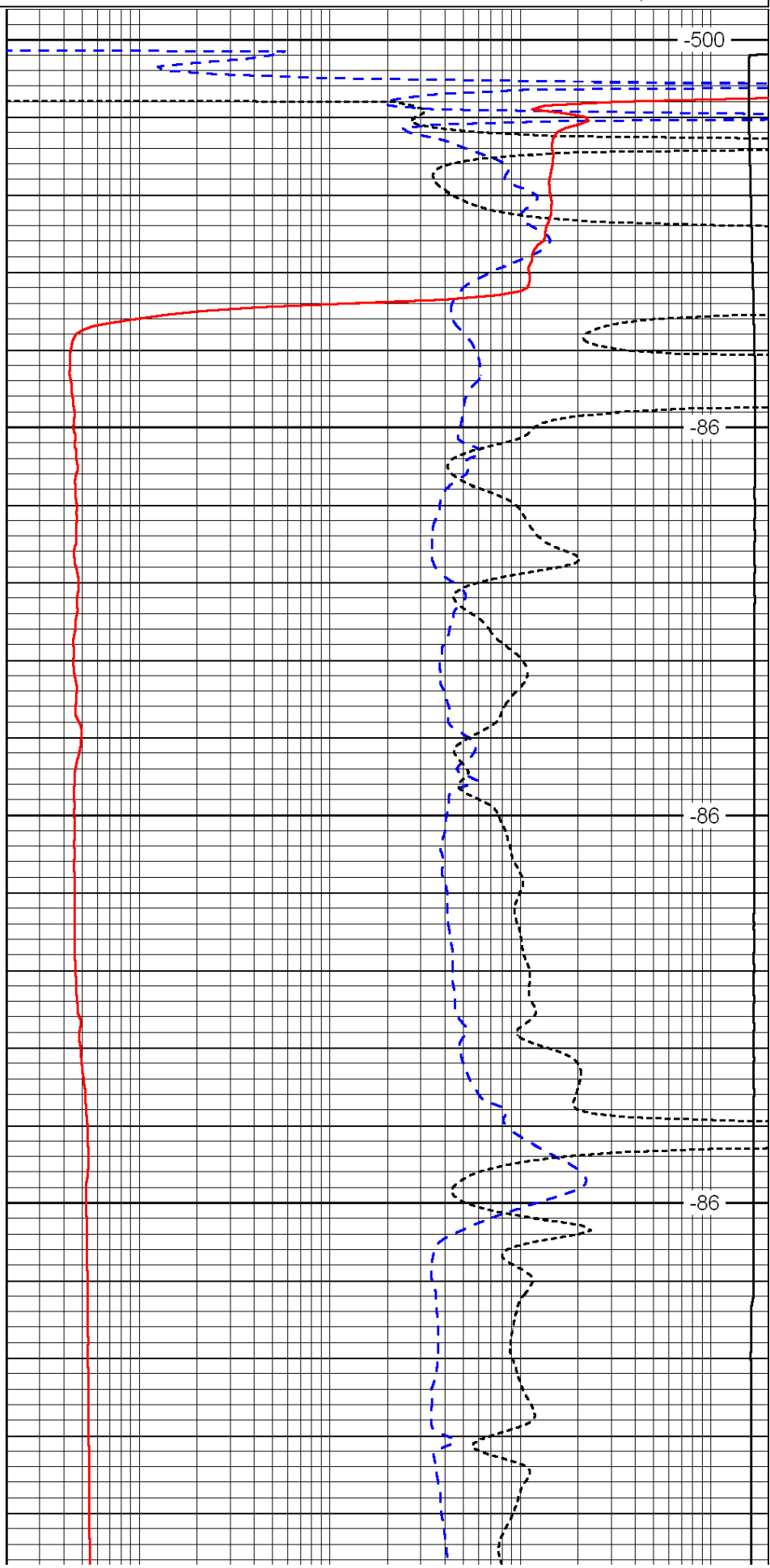


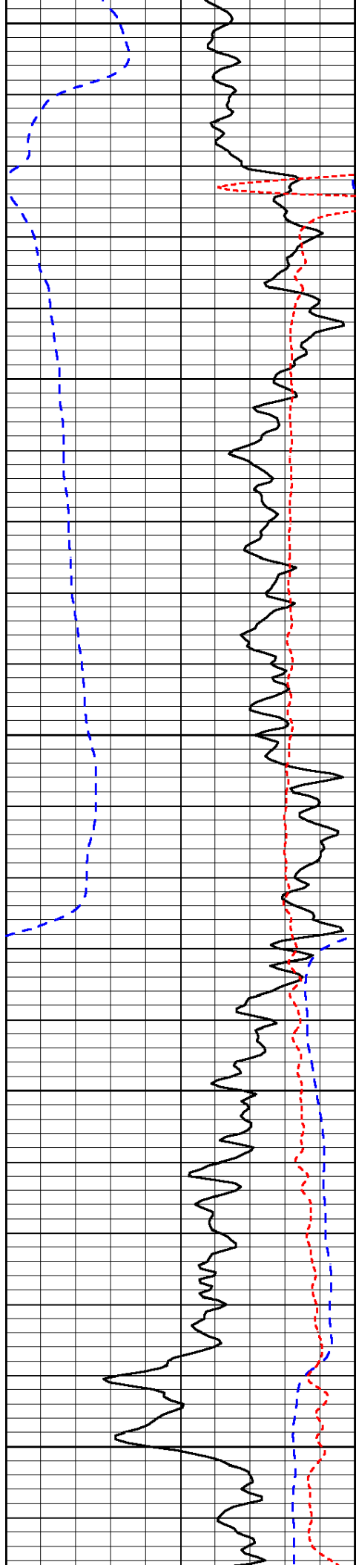
0

50

100

150





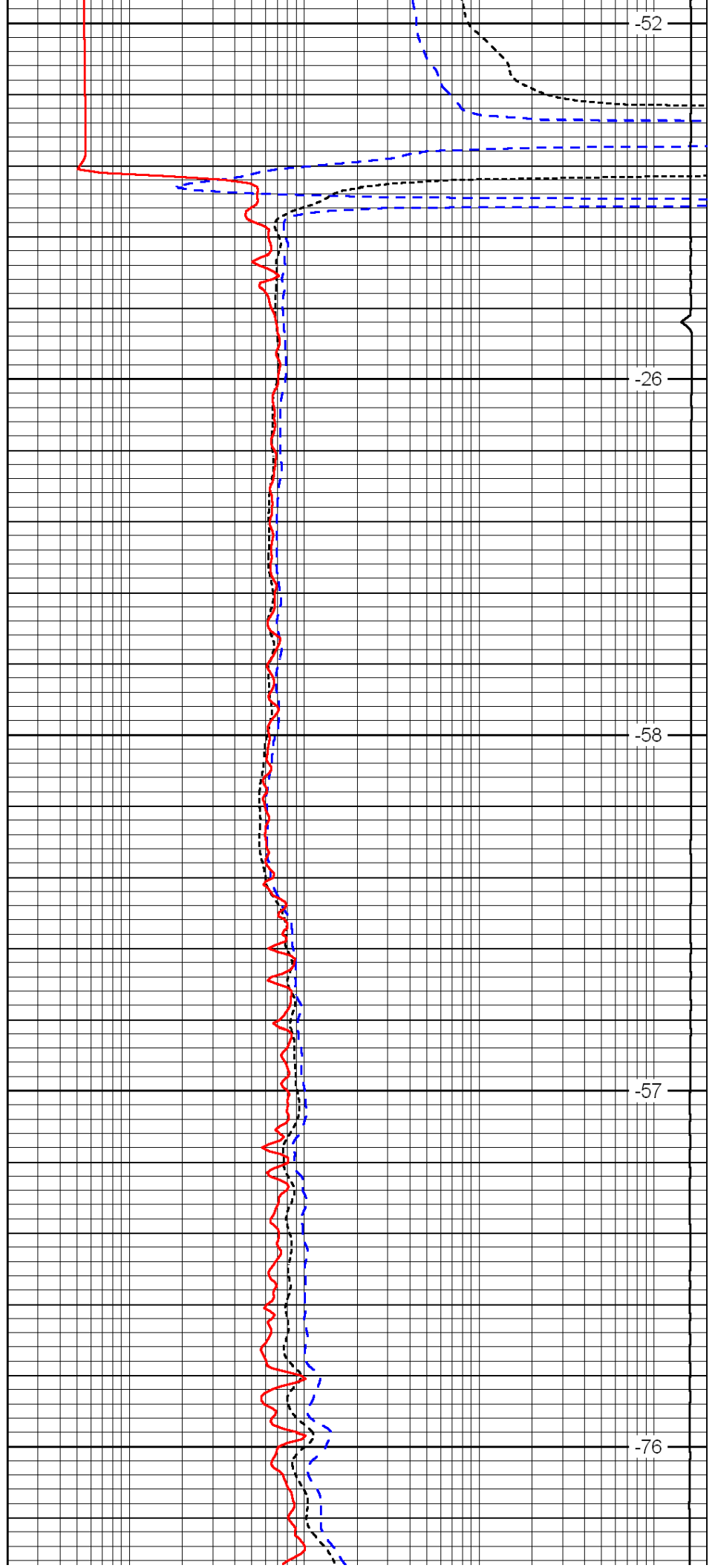
200

250

300

350

400



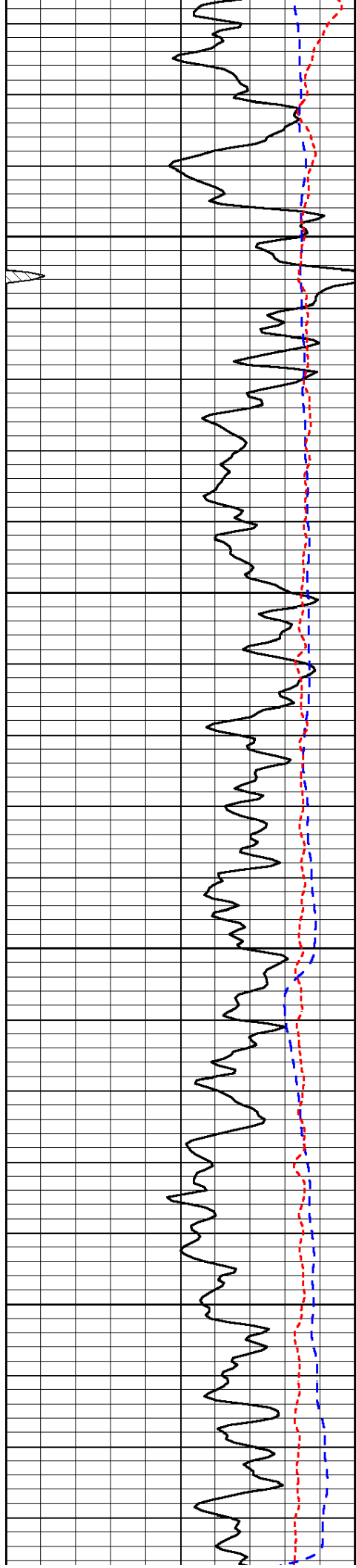
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-26

-58

-57

-76

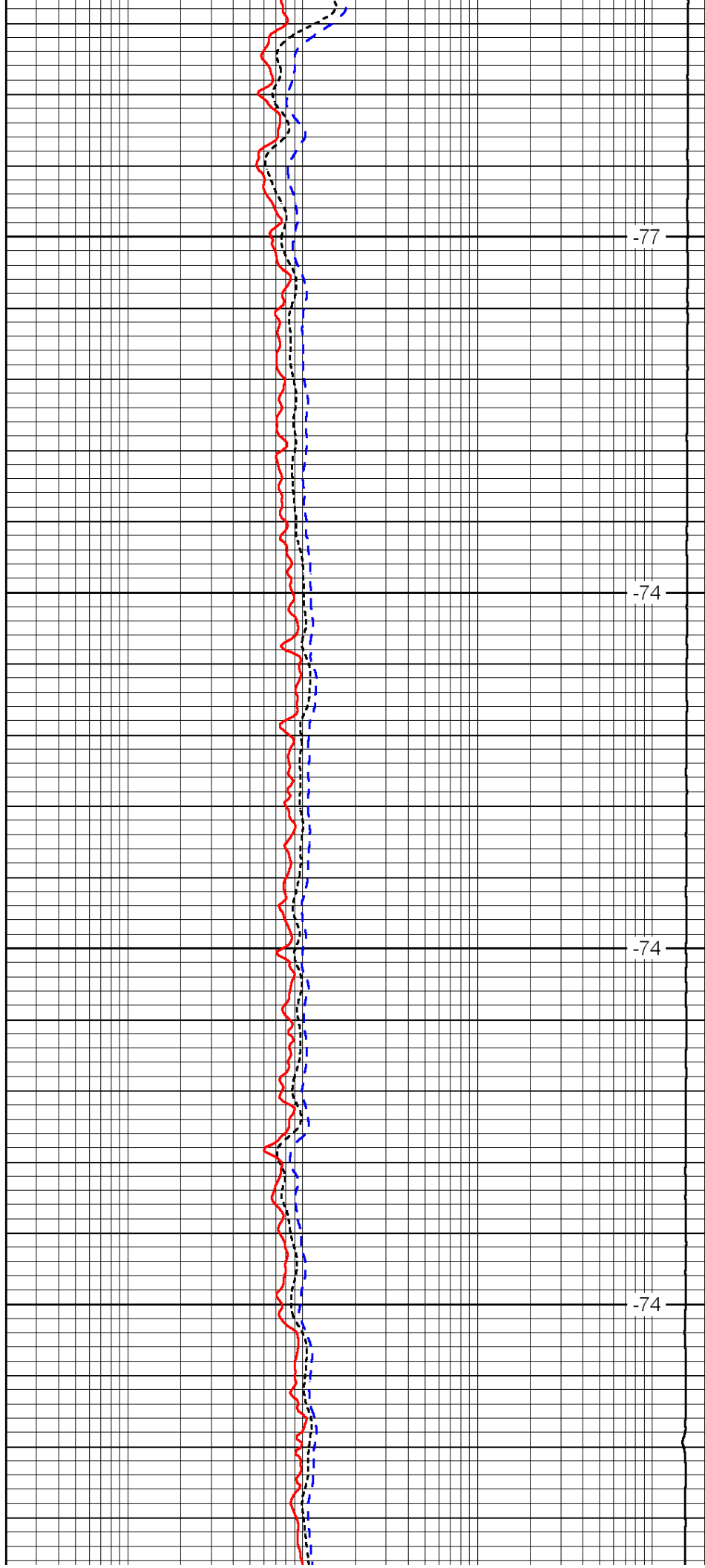


450

500

550

600

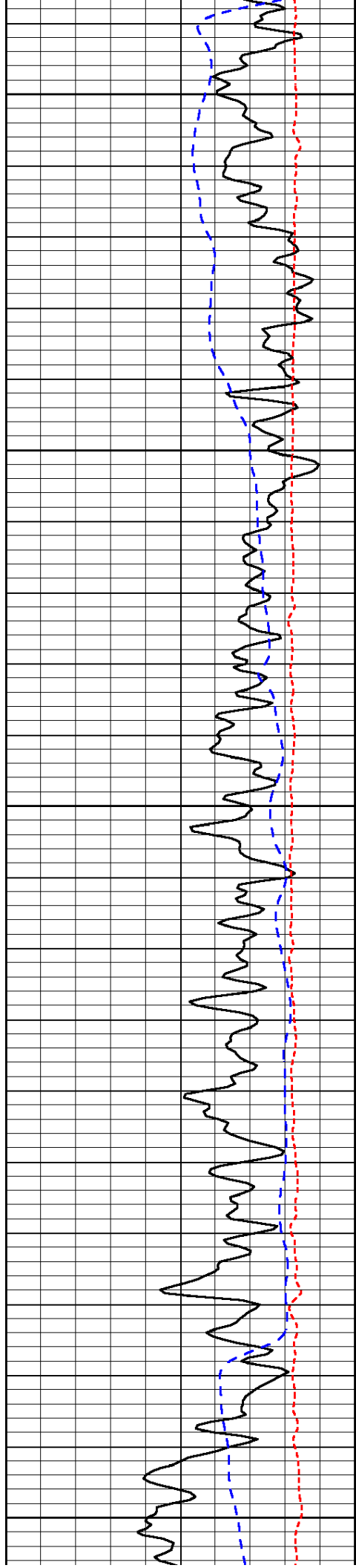


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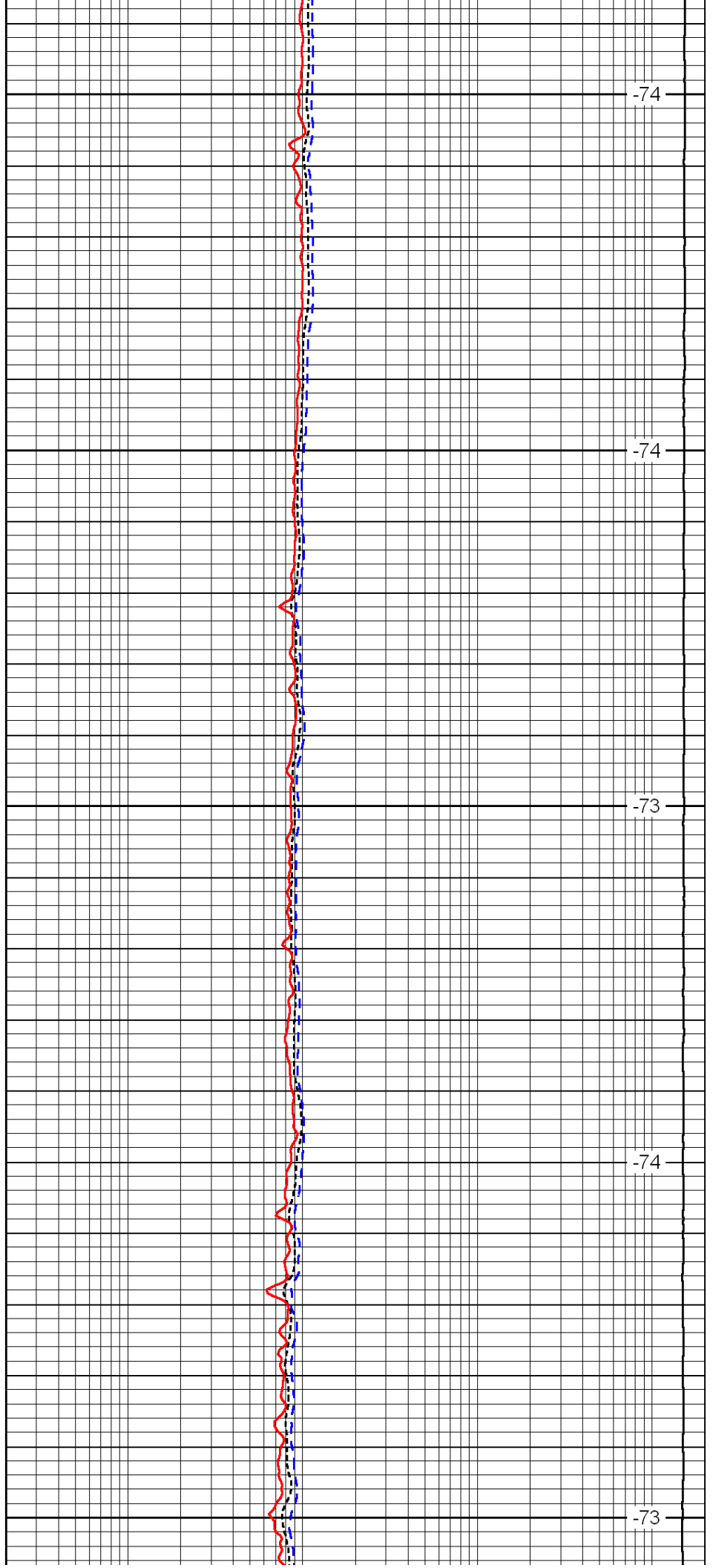
650

700

750

800

850



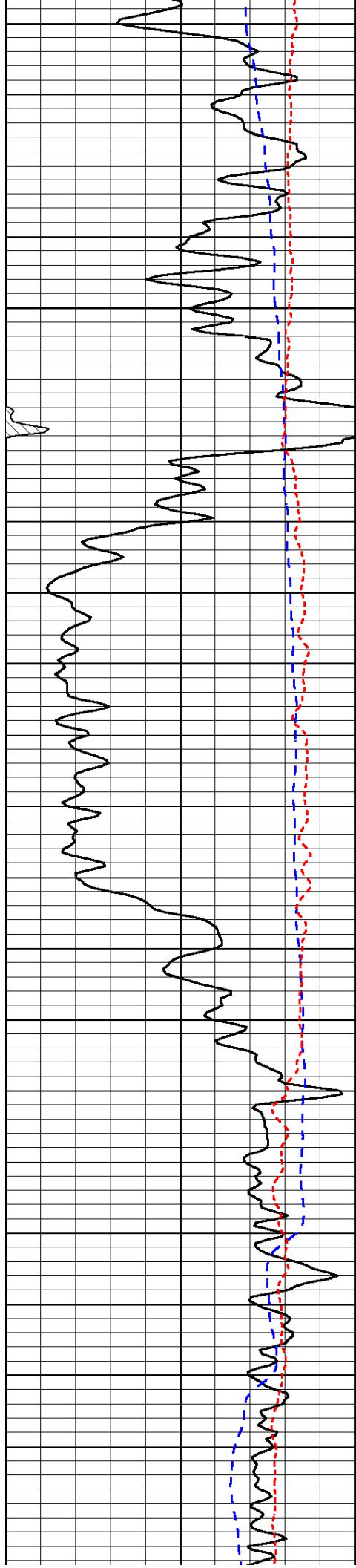
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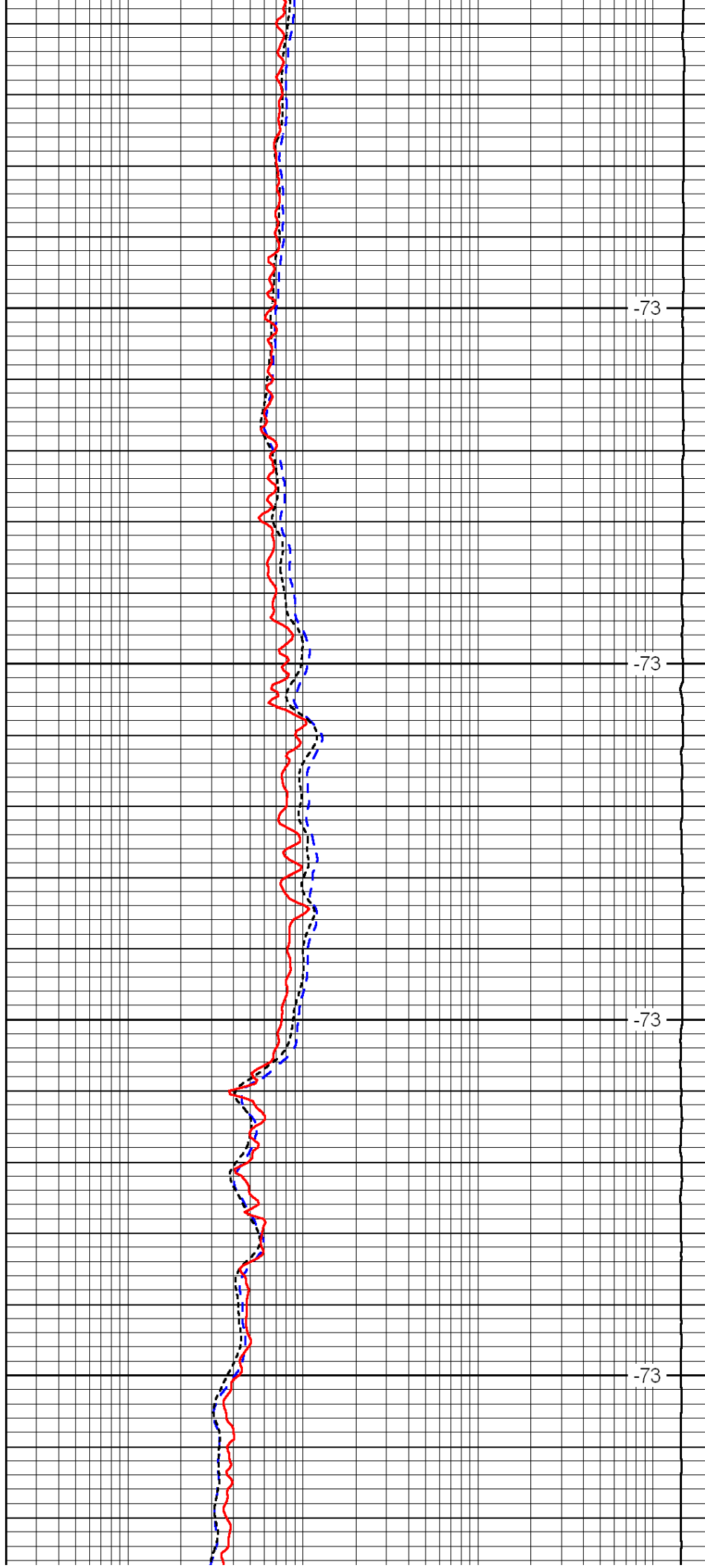


900

950

1000

1050

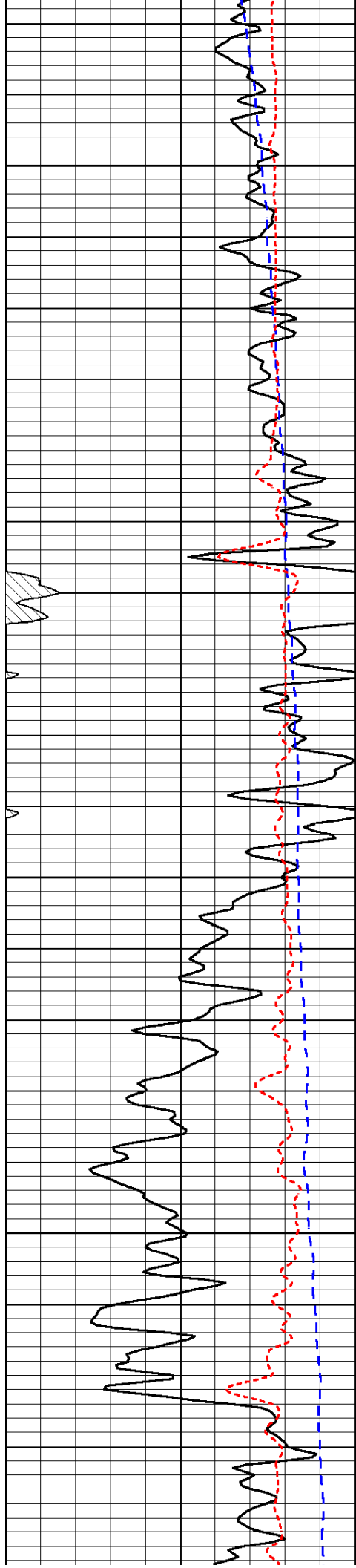


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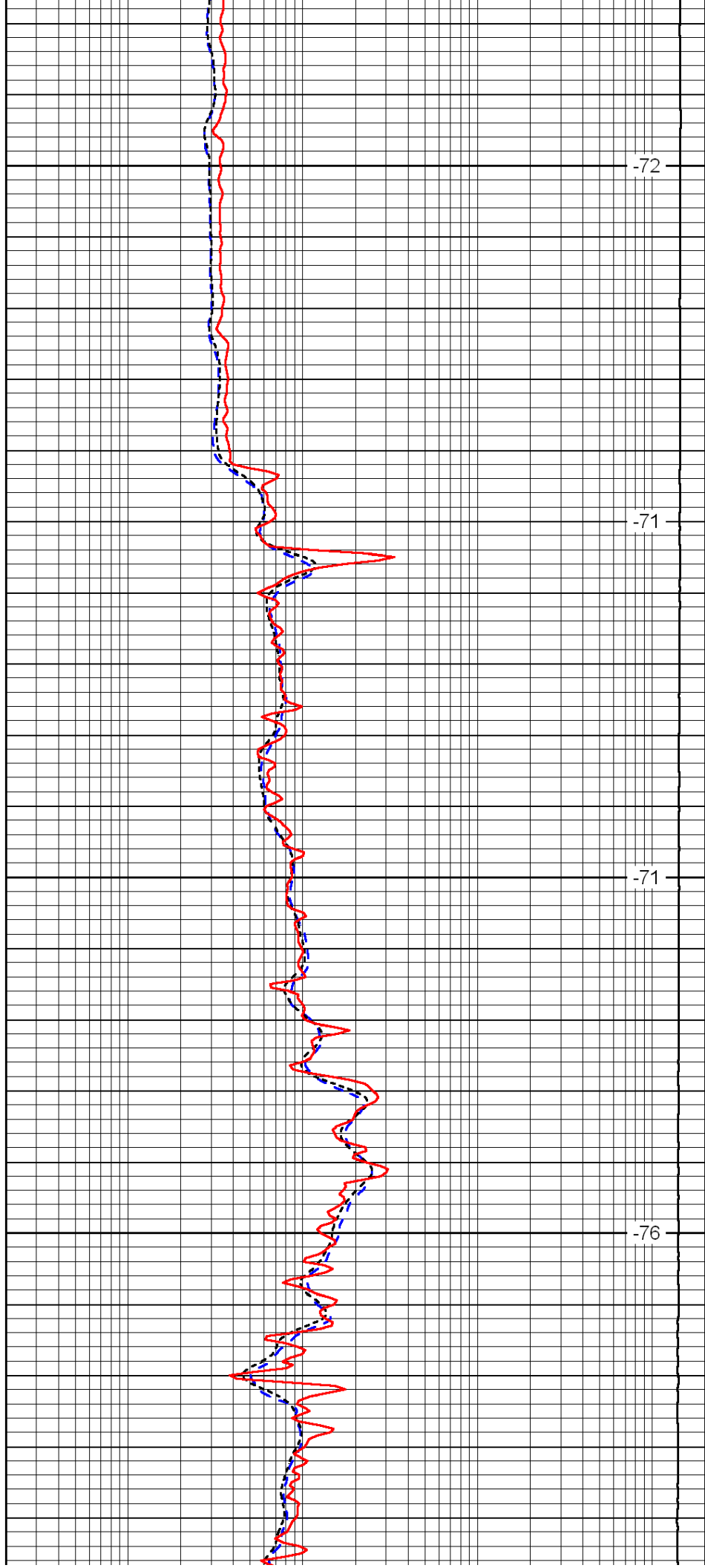


1100

1150

1200

1250

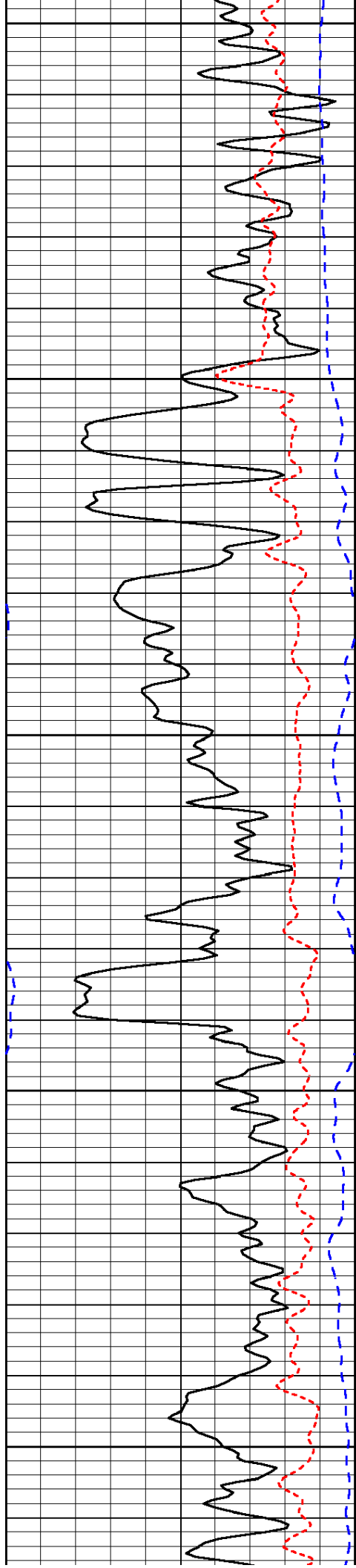


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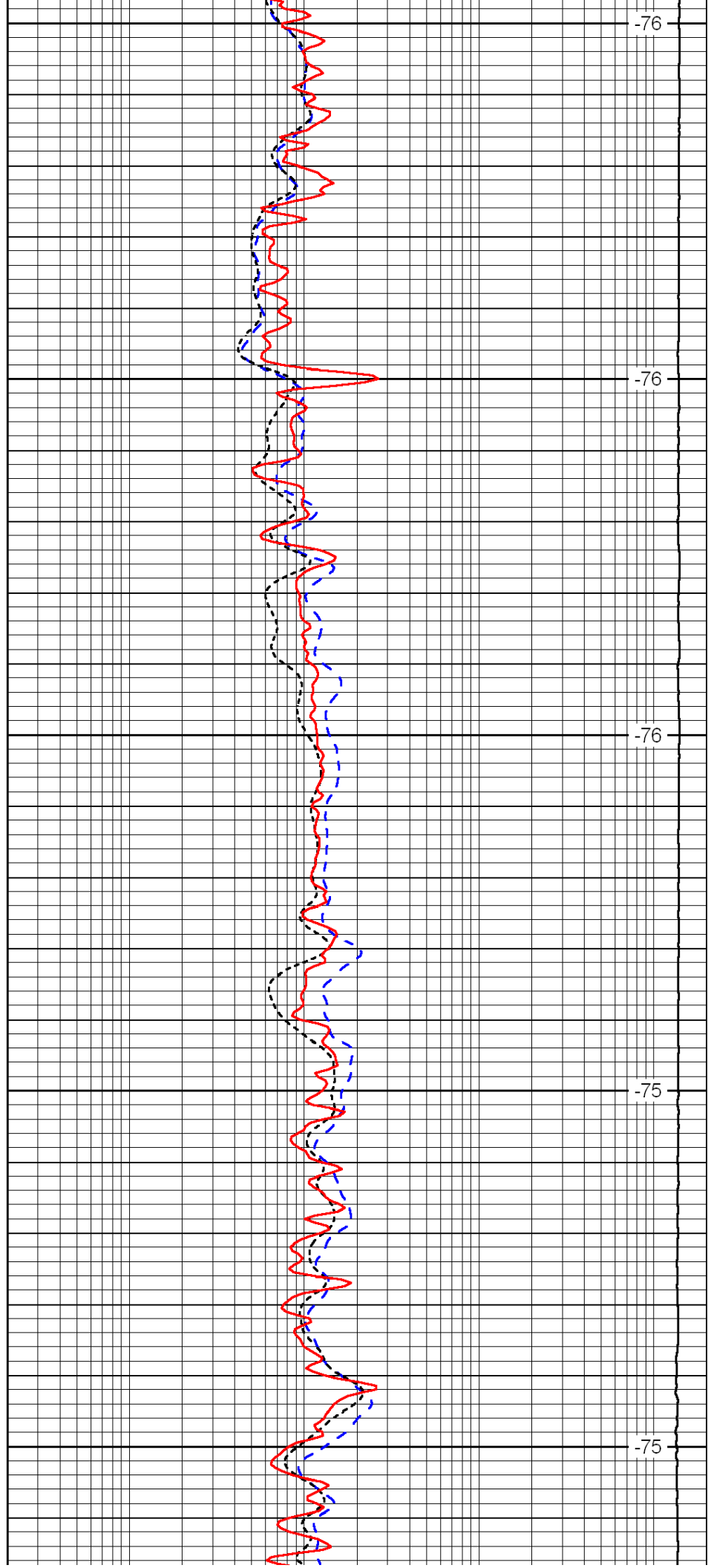
1300

1350

1400

1450

1500



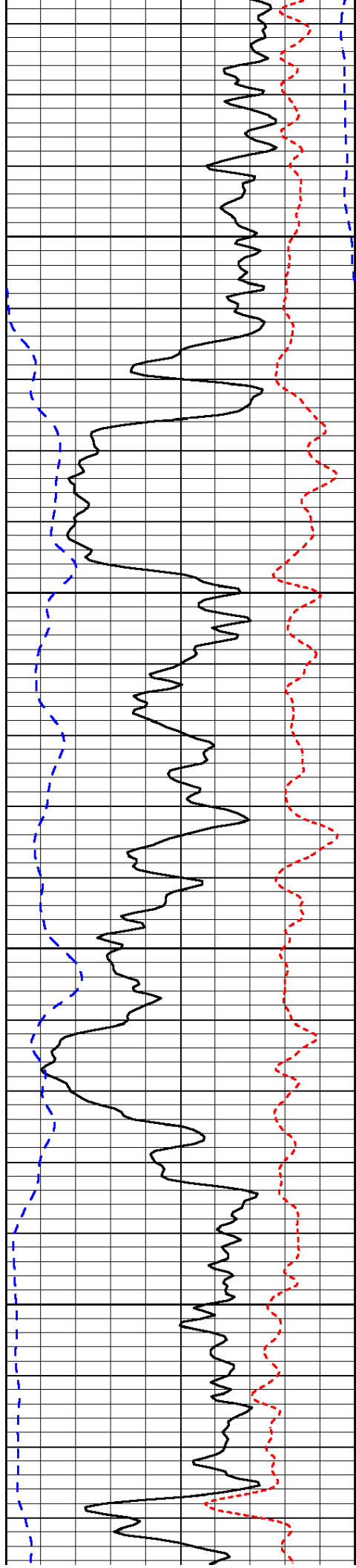
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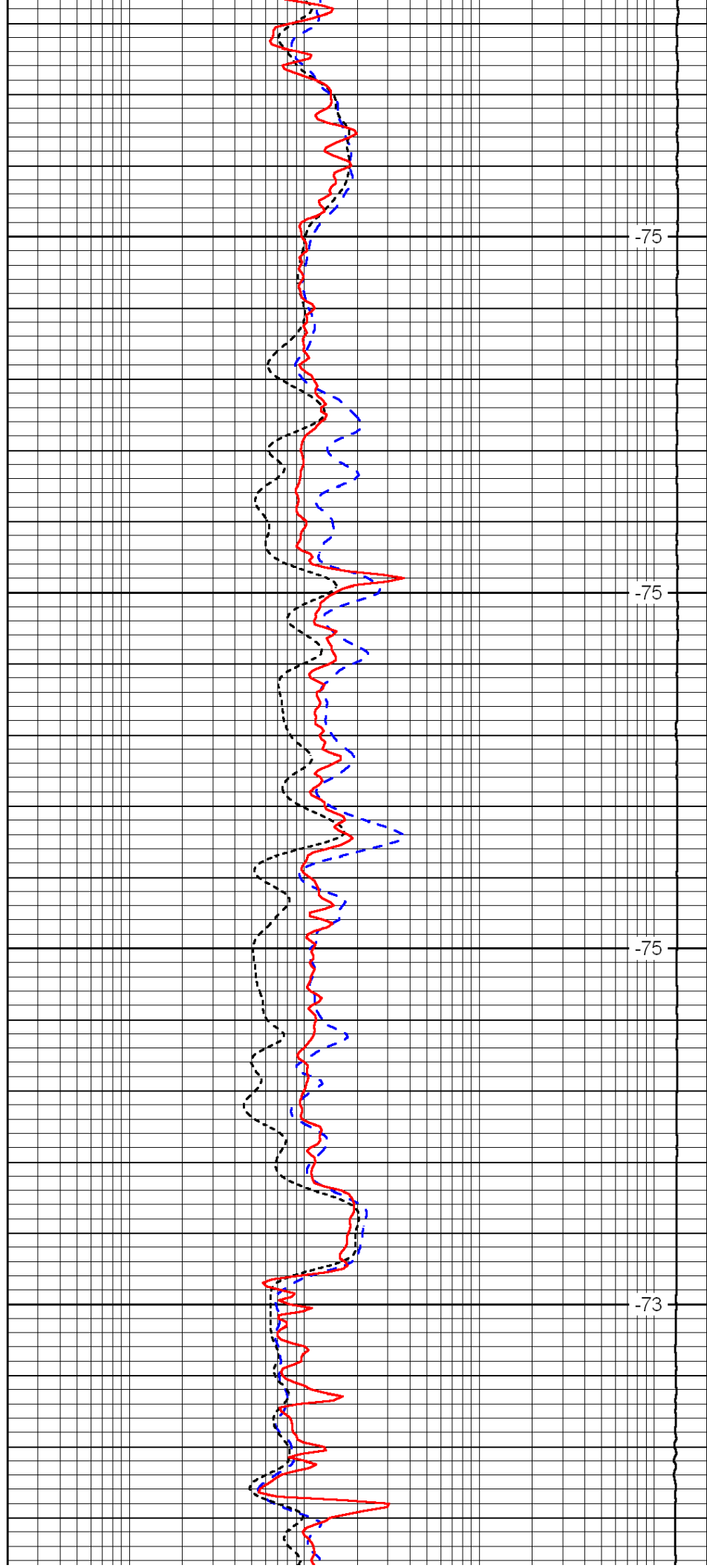


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1600

1650

1700

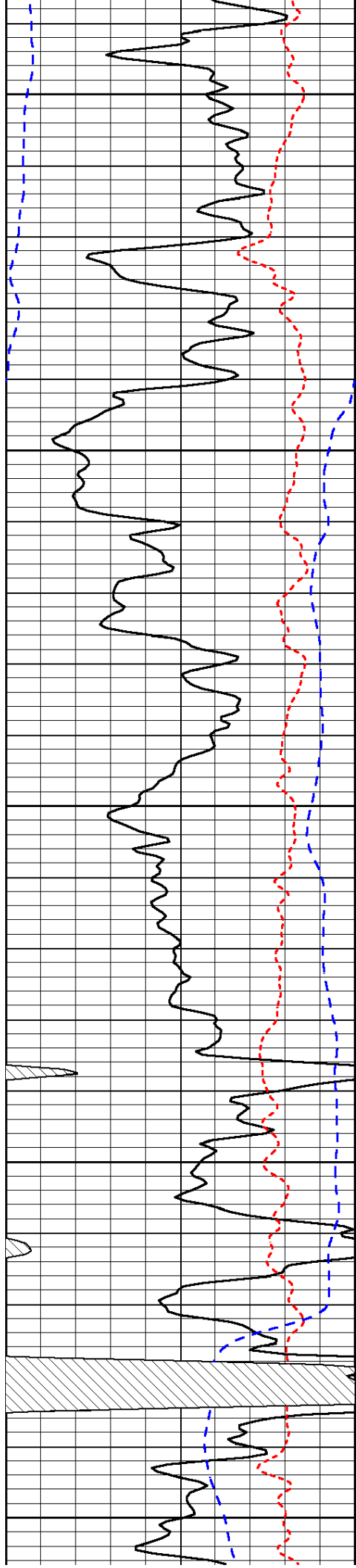


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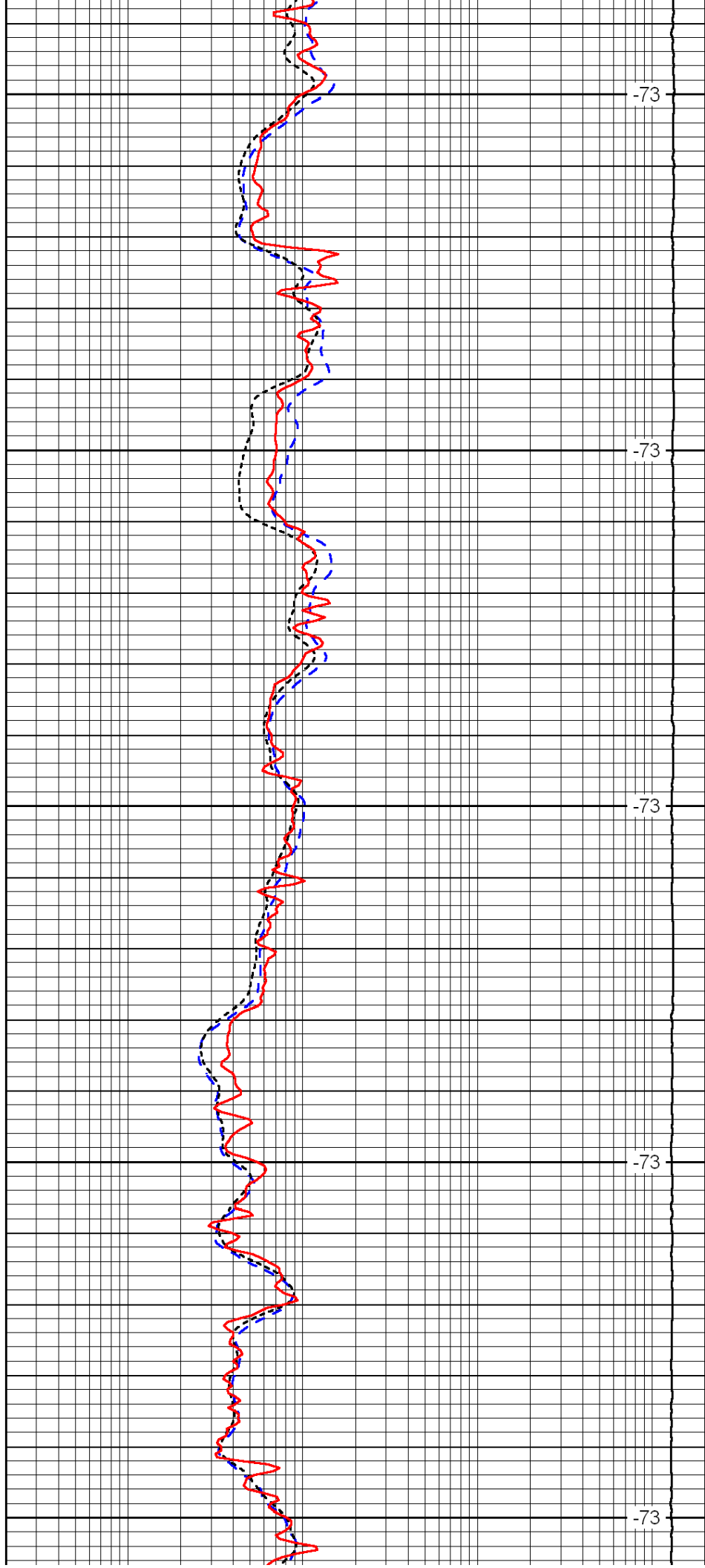
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1800

1850

1900

1950



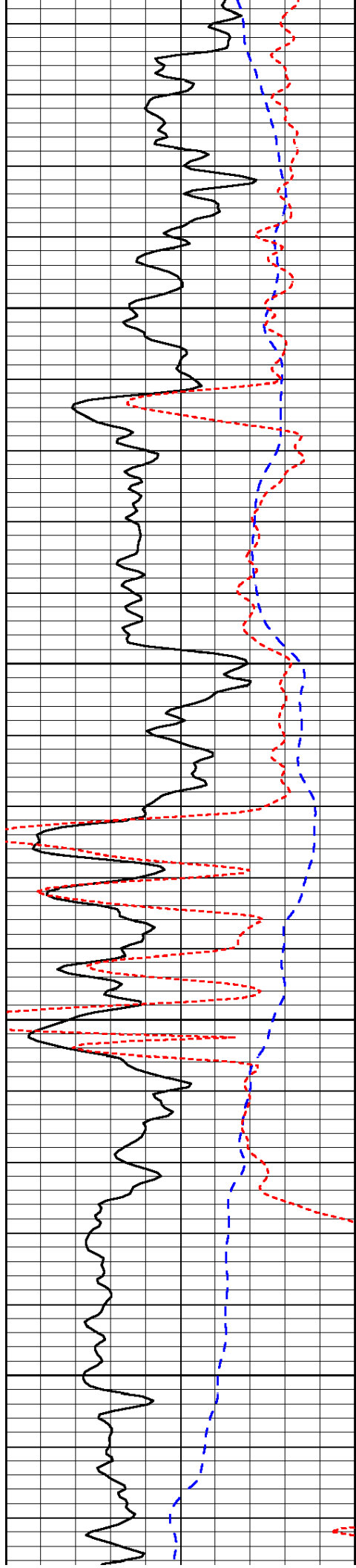
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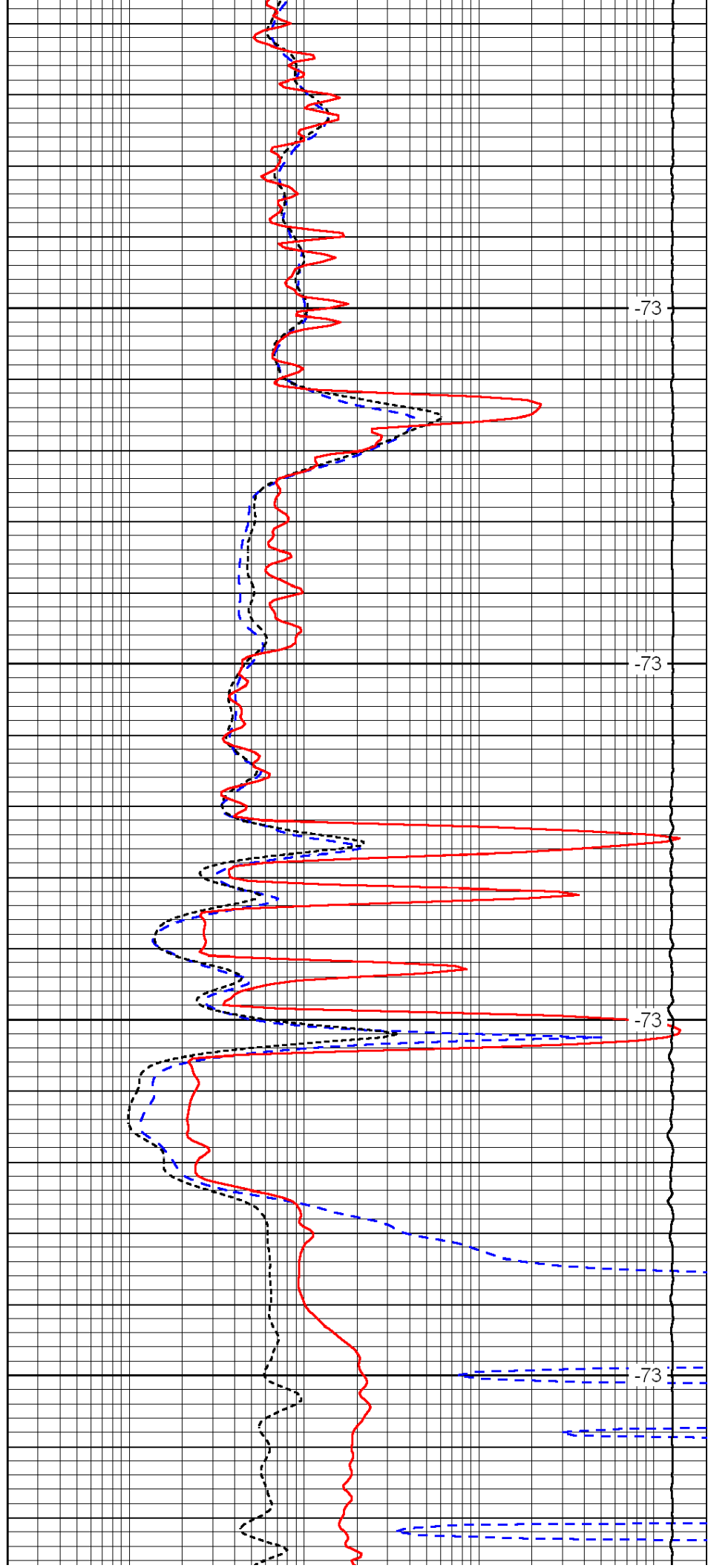


2000

2050

2100

2150

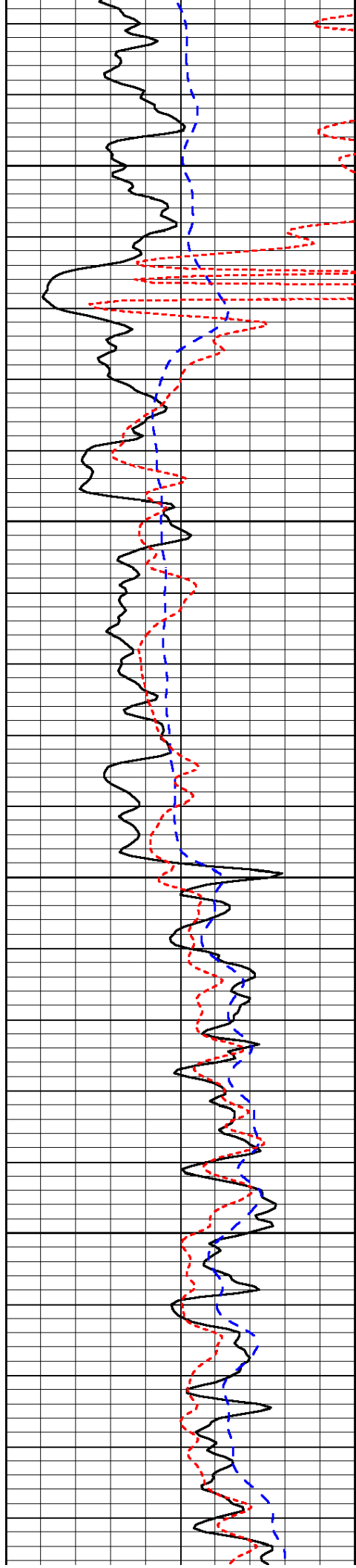


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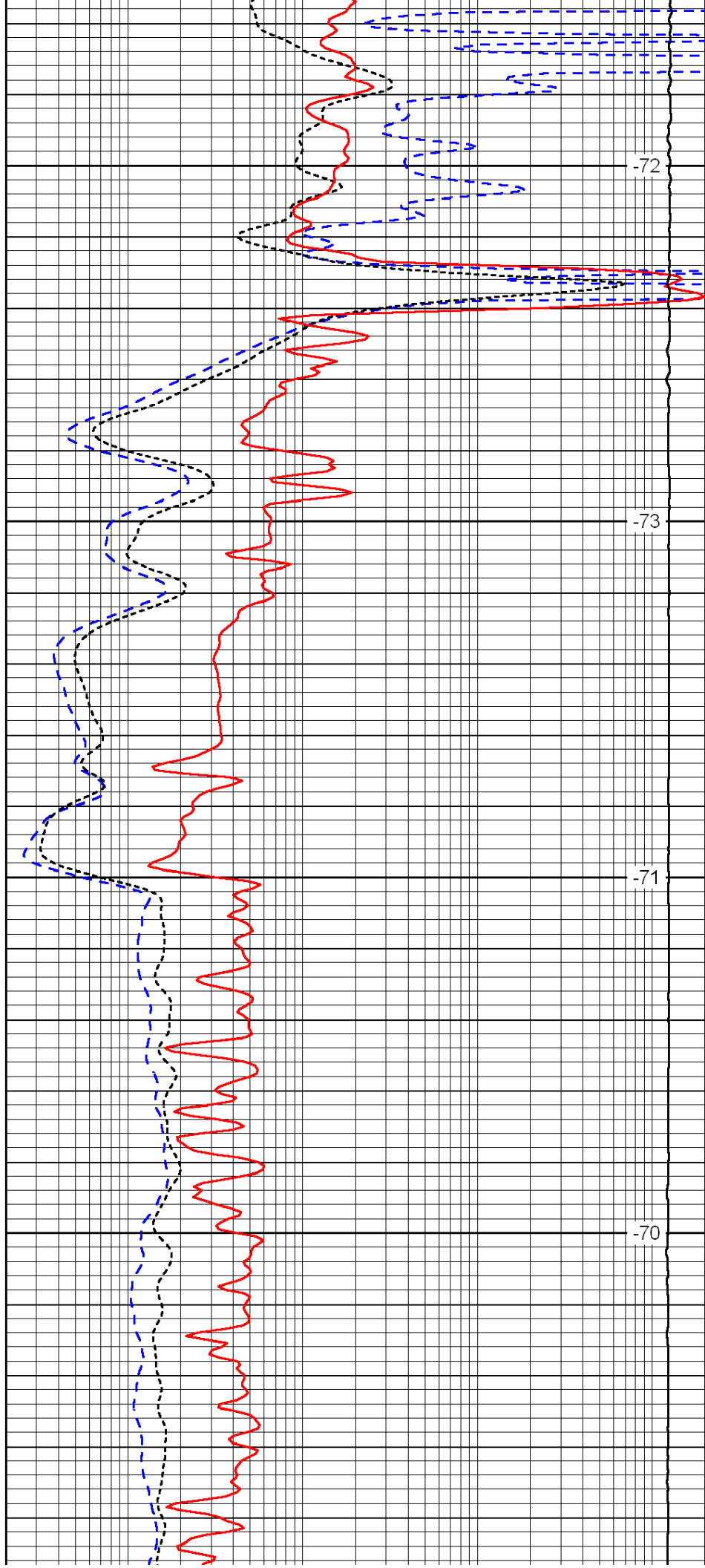


2200

2250

2300

2350

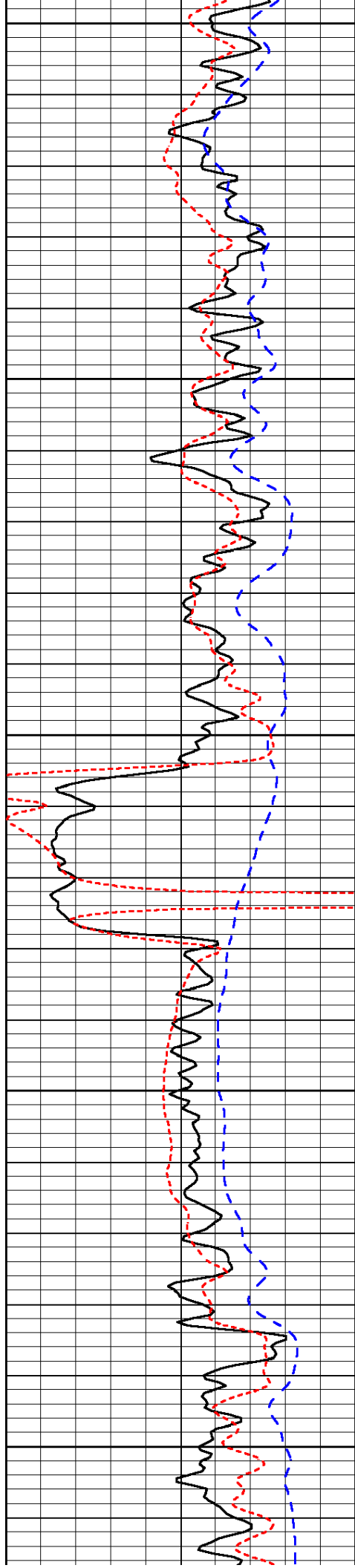


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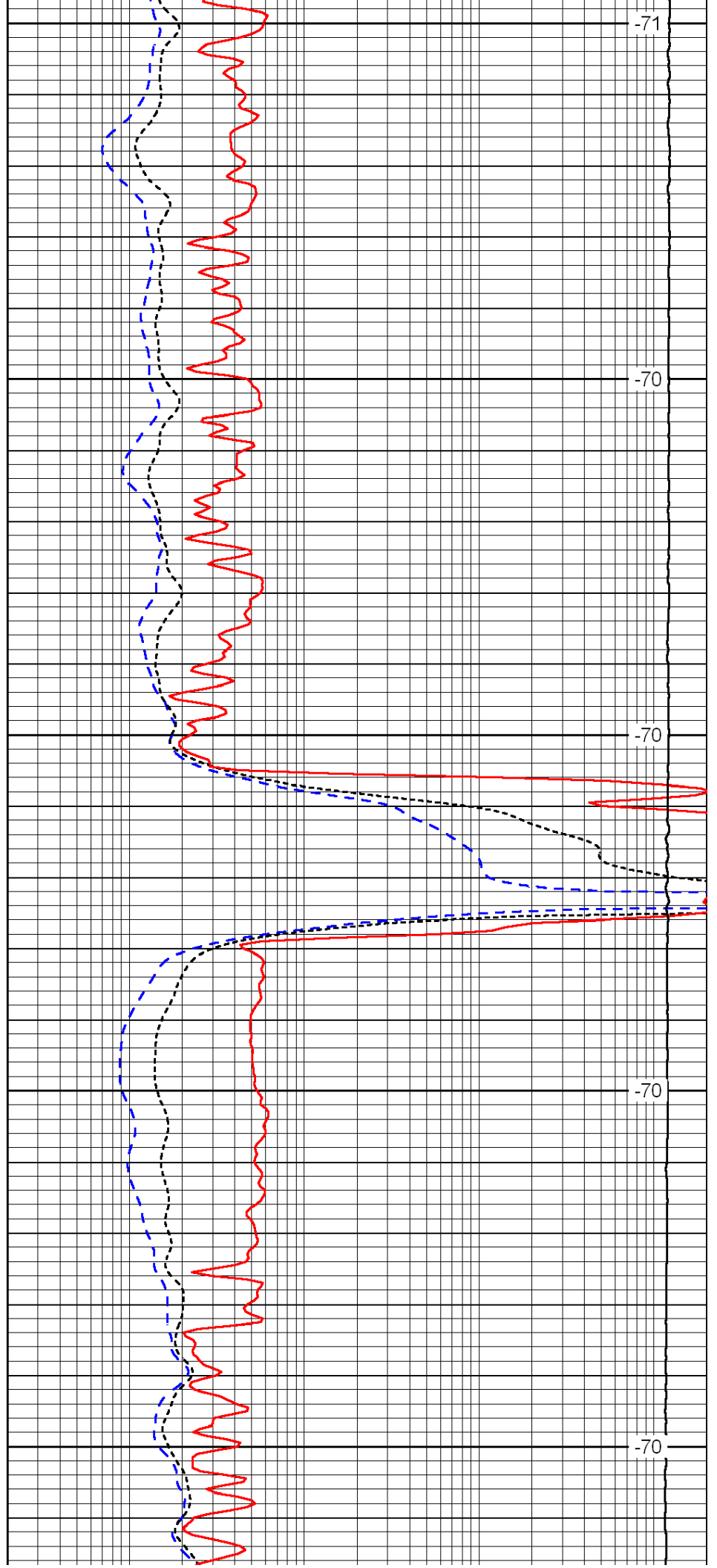
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2450

2500

2550

2600



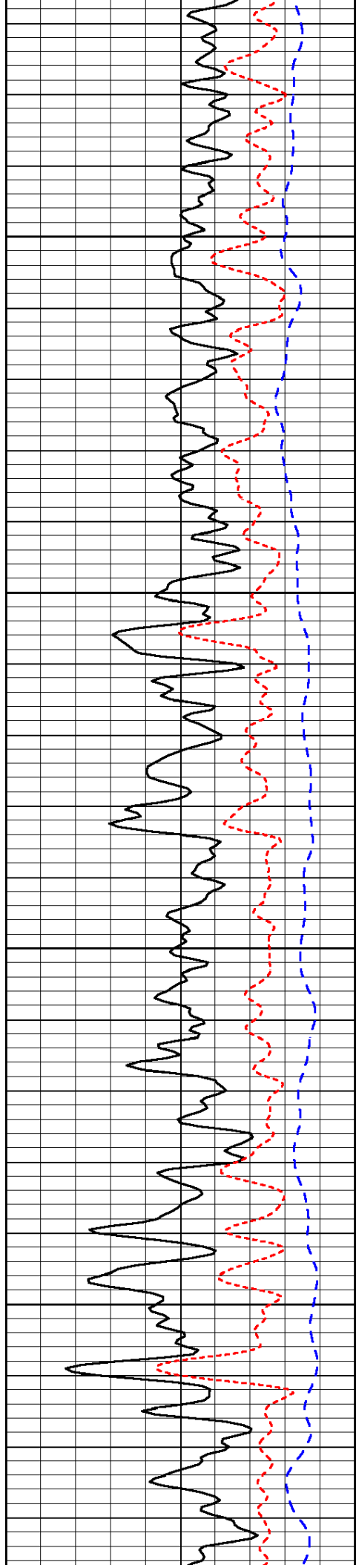
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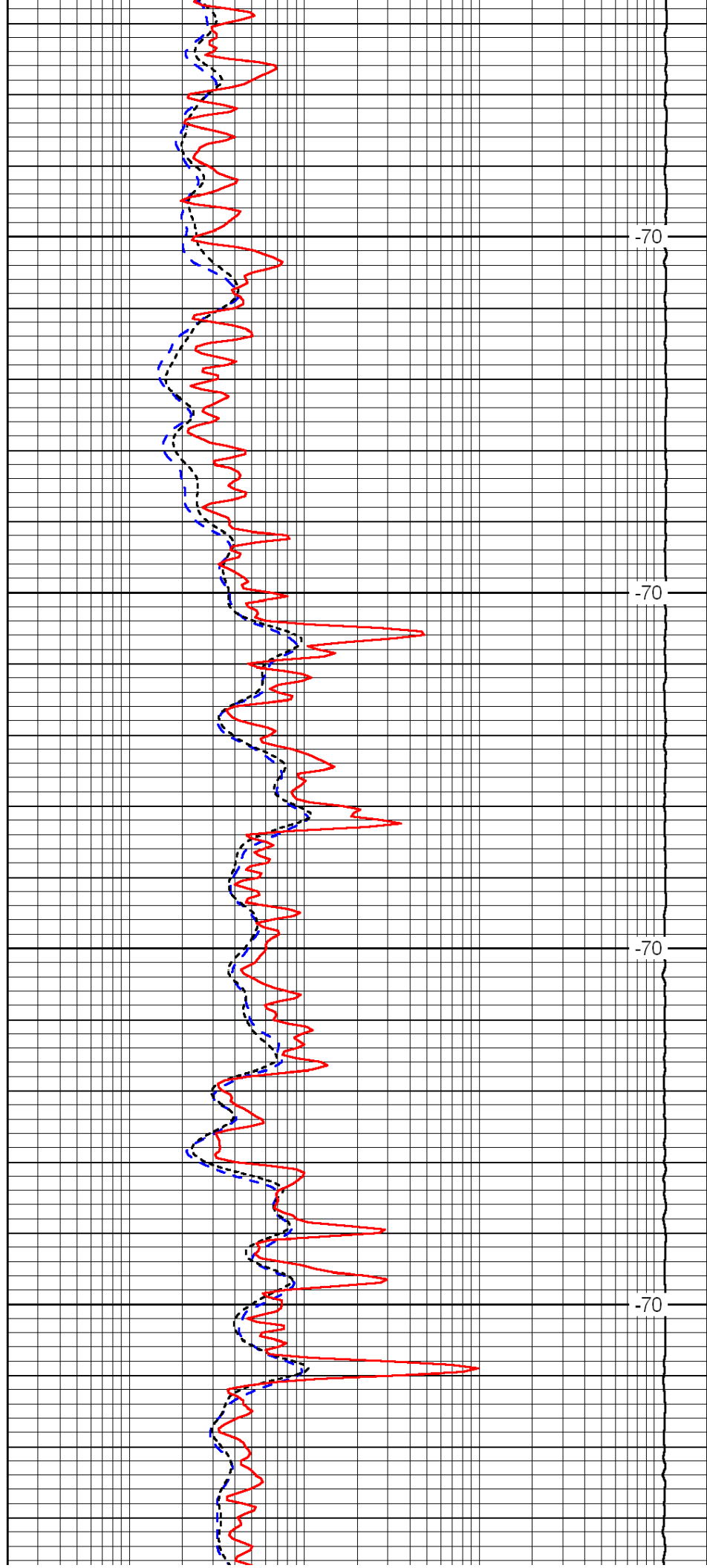


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2700

2750

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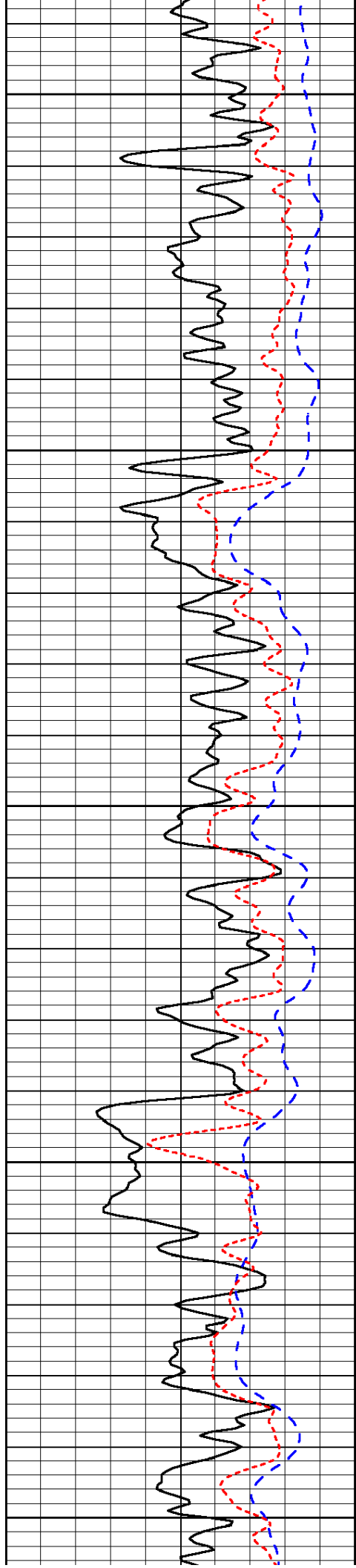


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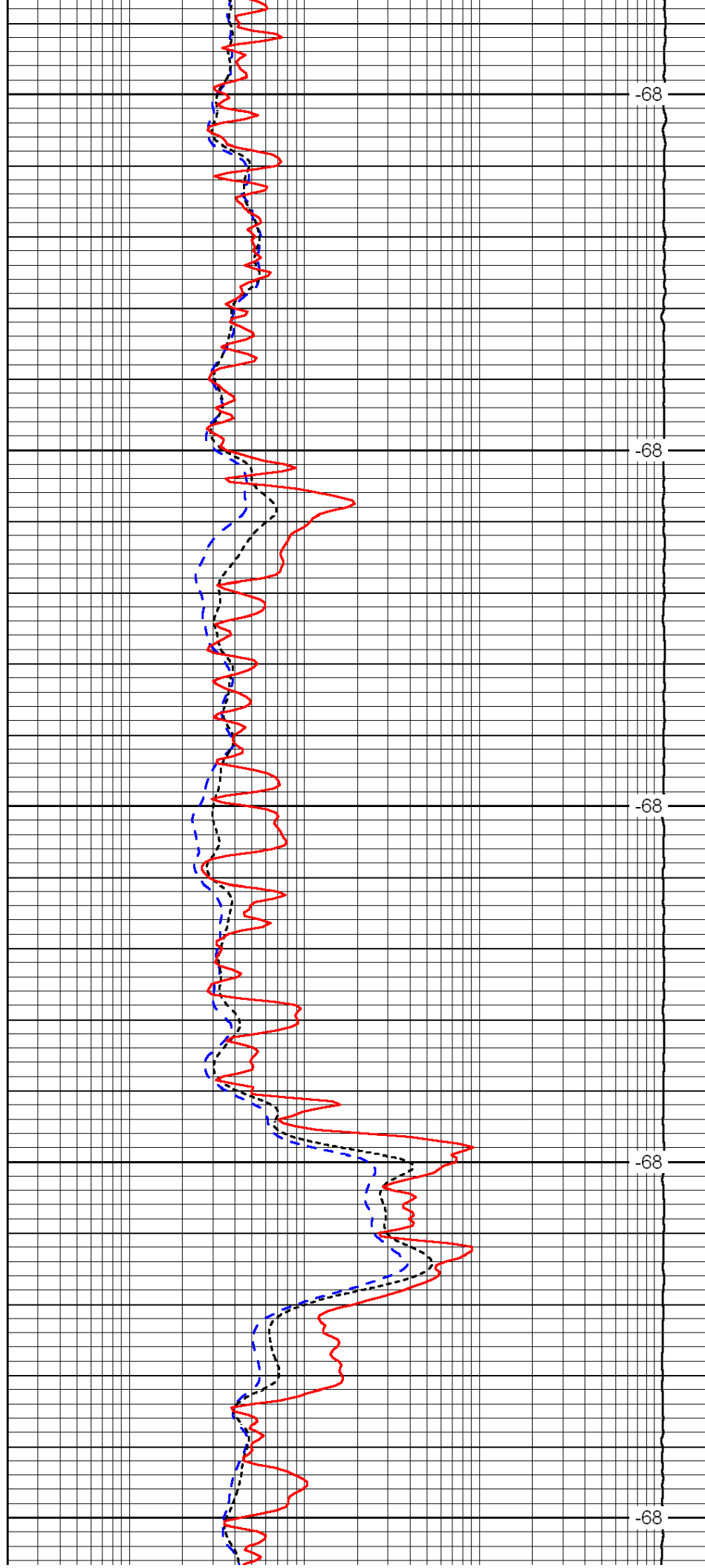
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2900

2950

3000

3050



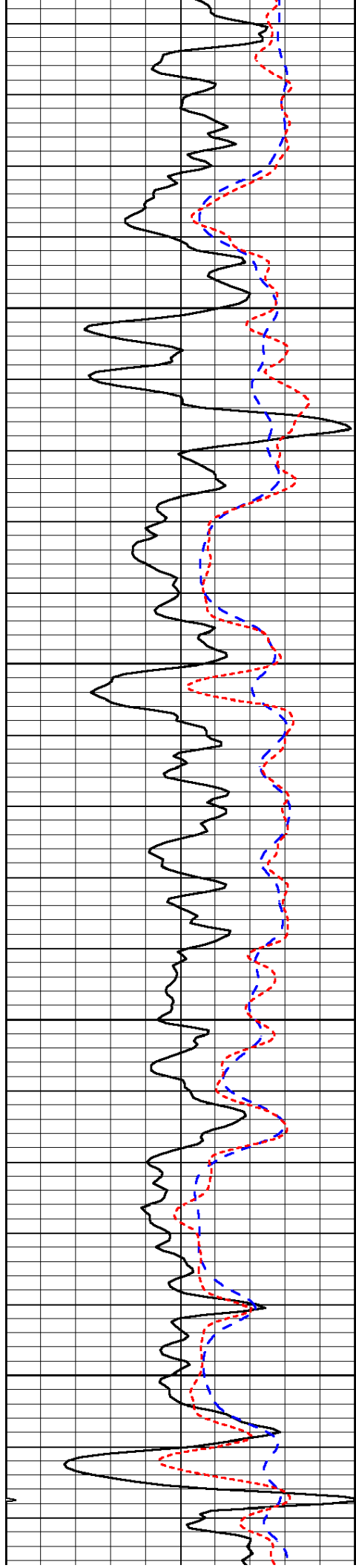
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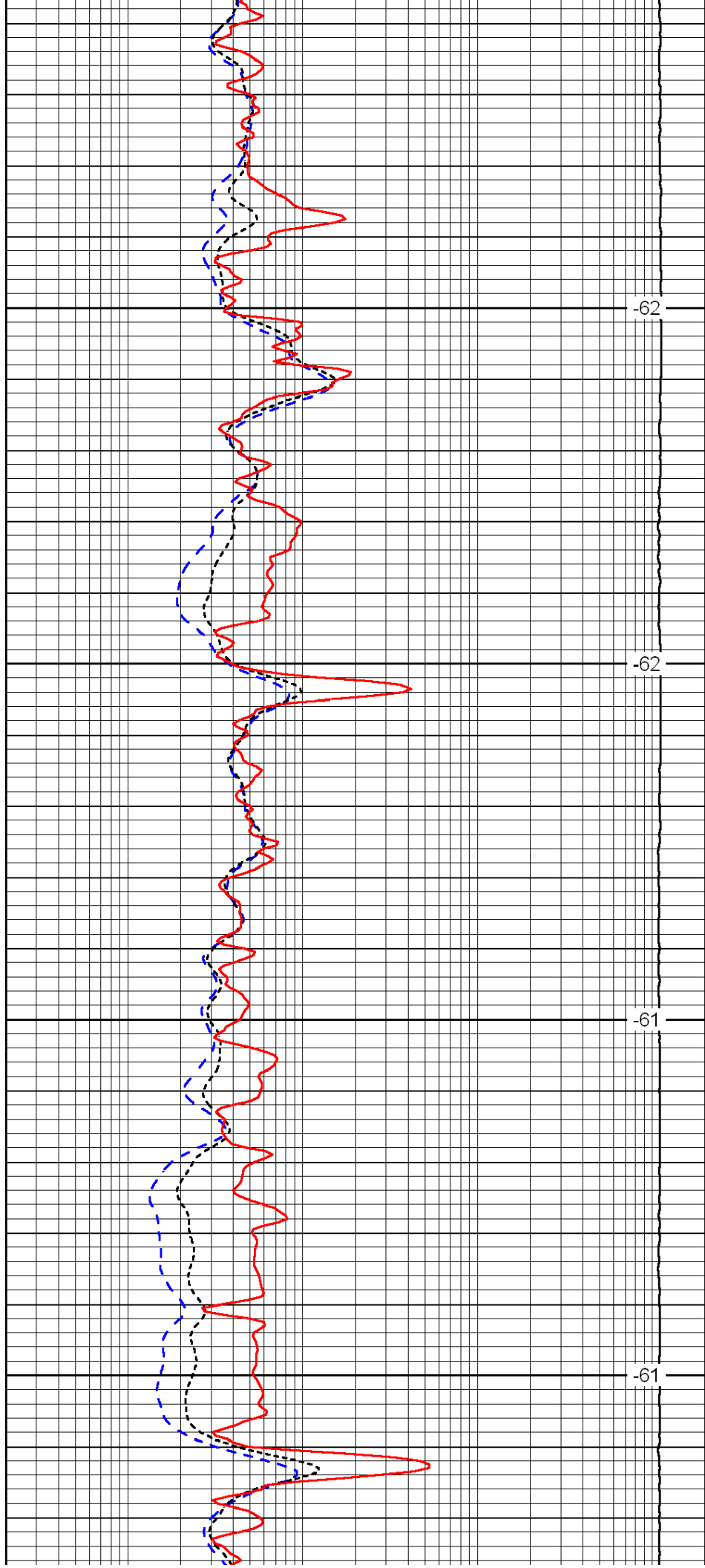


3100

3150

3200

3250

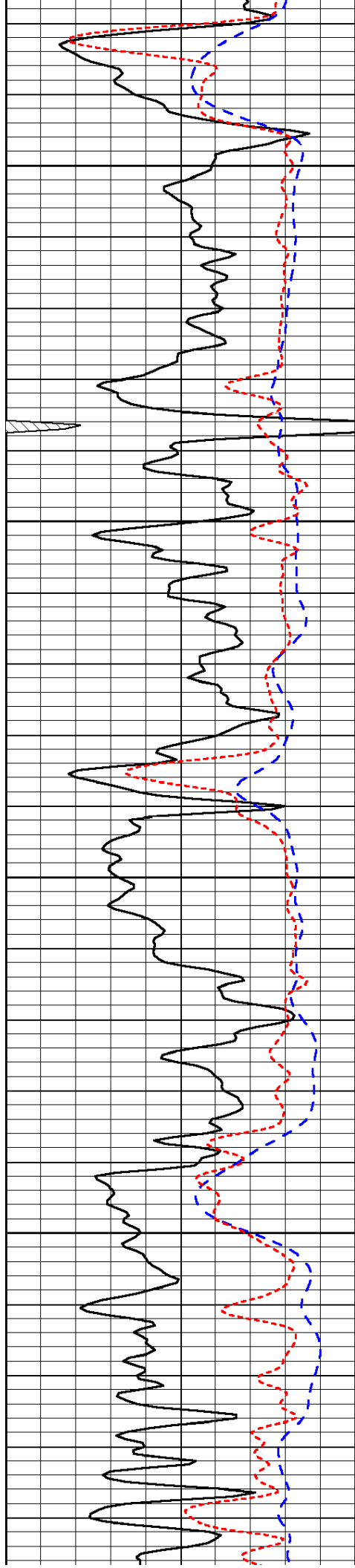


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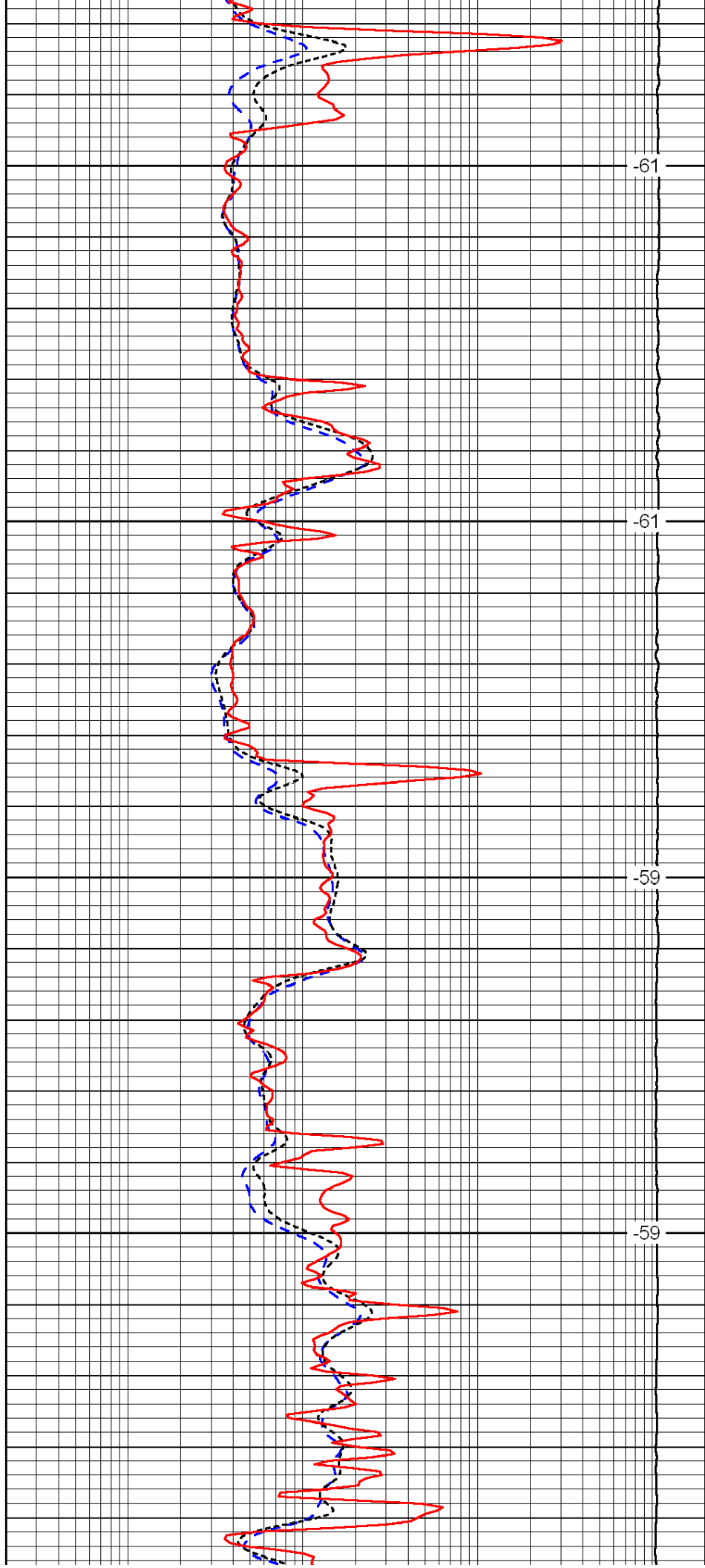


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3350

3400

3450

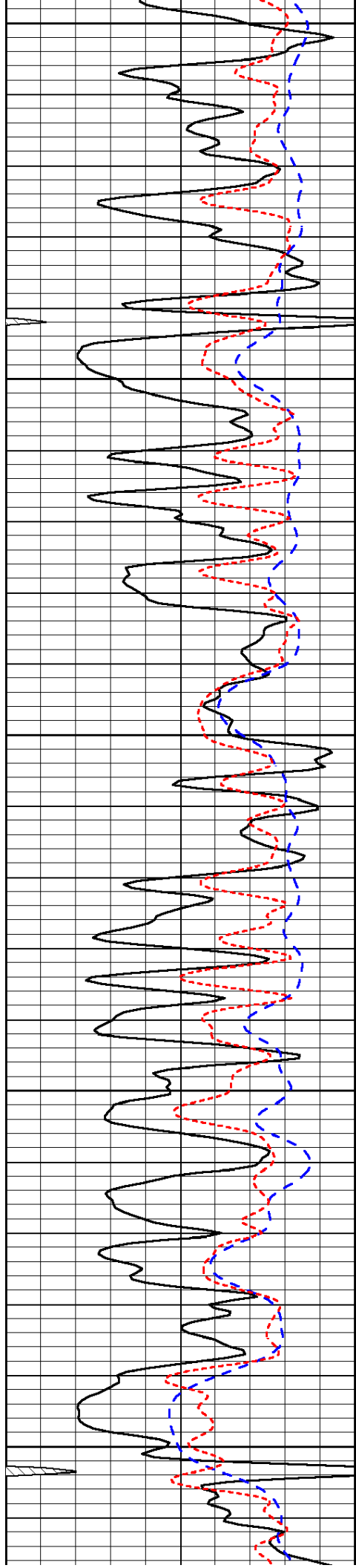


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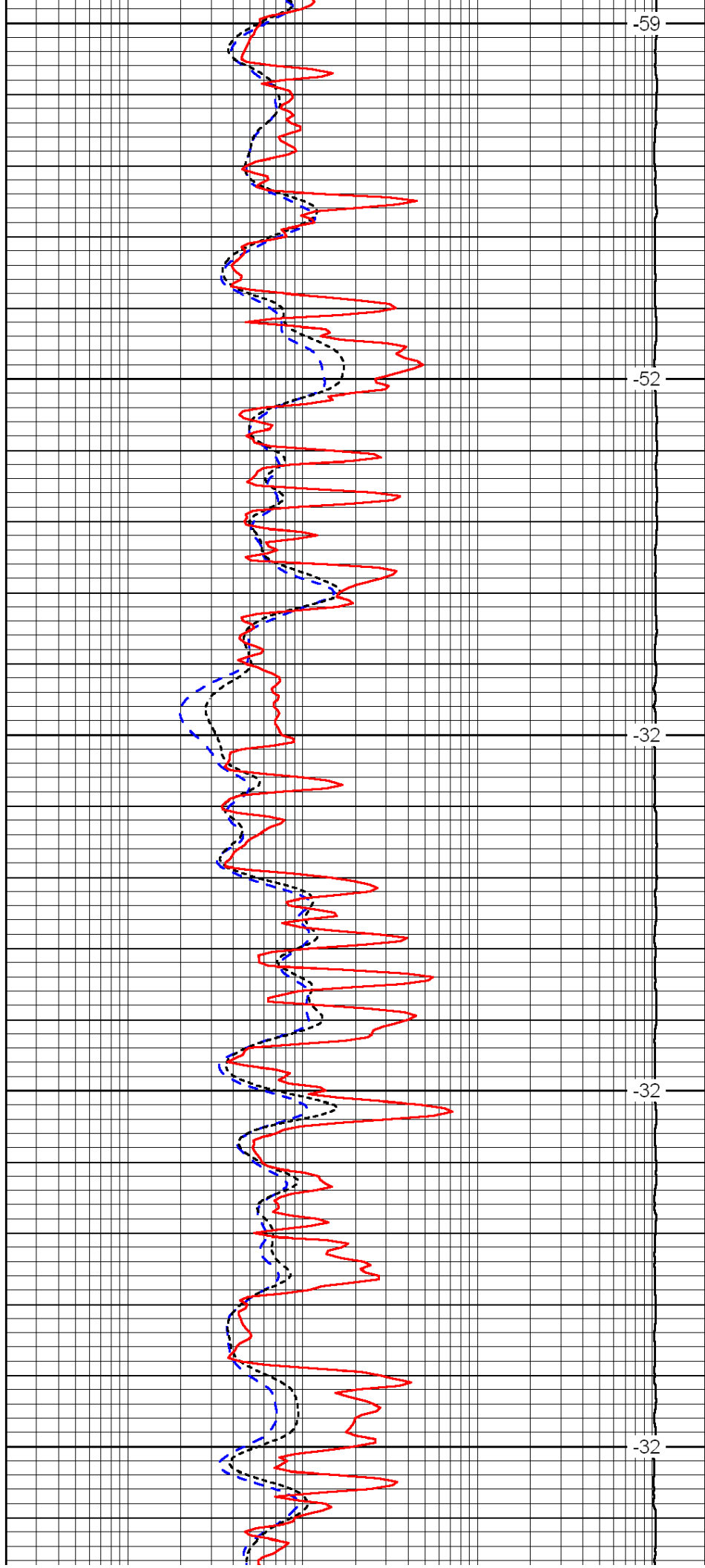
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3600

3650

3700



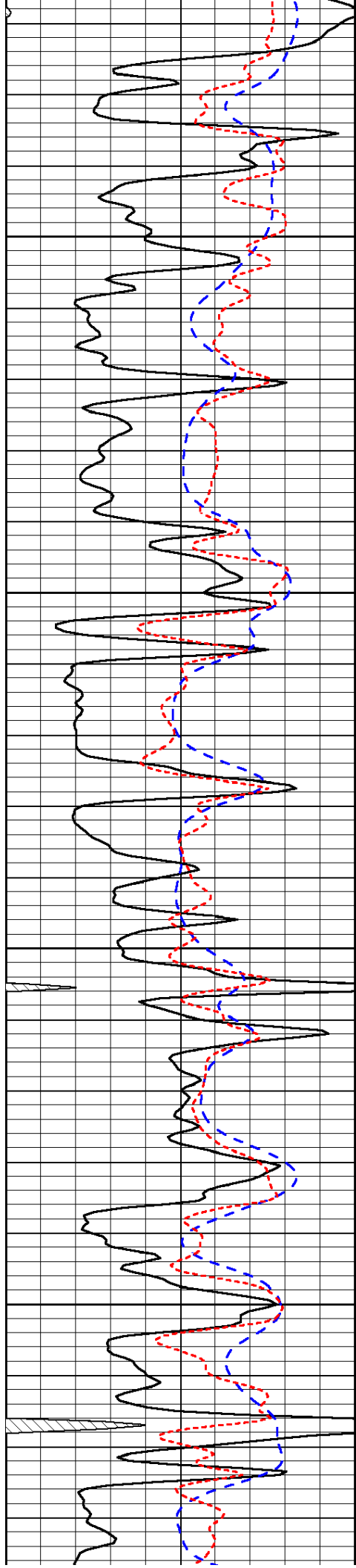
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-32

-32

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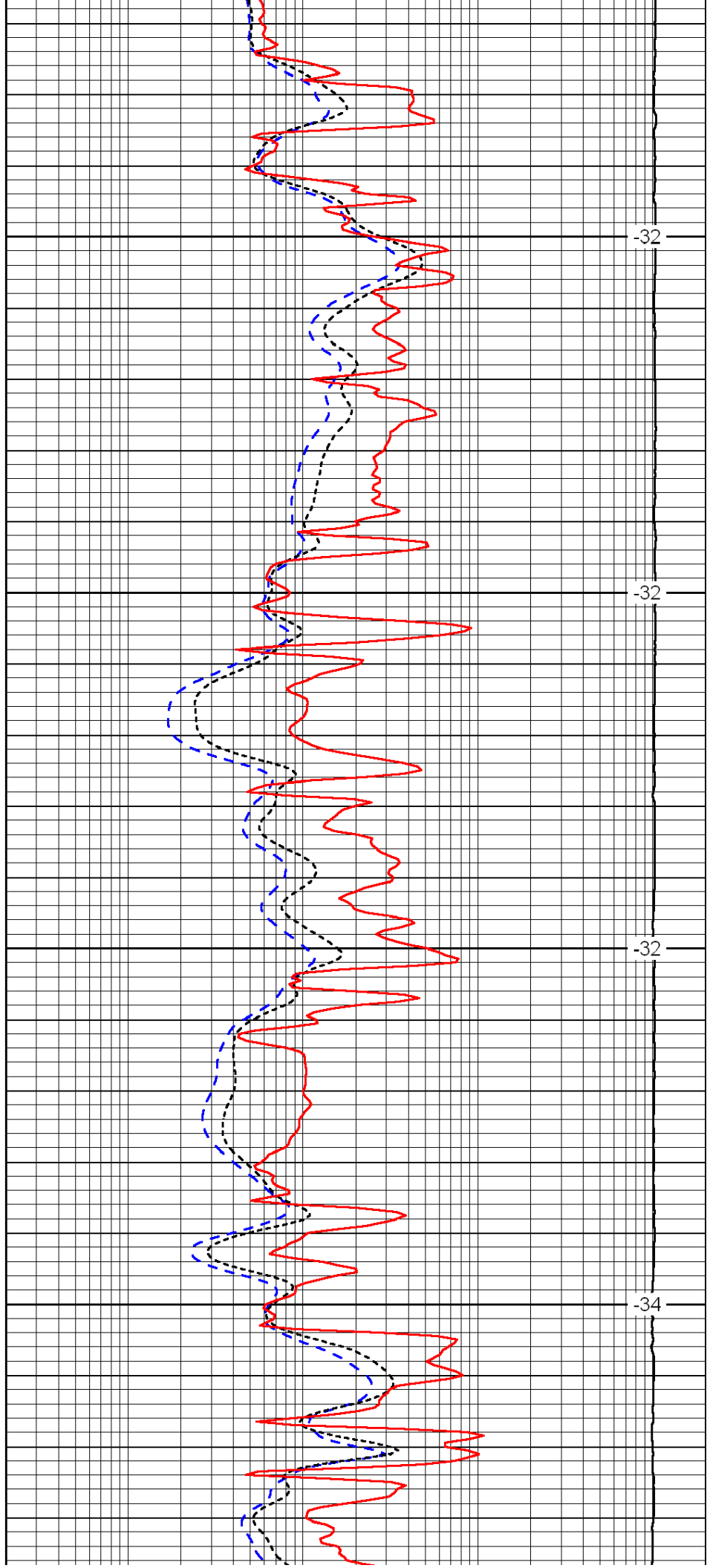


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3800

3850

3900

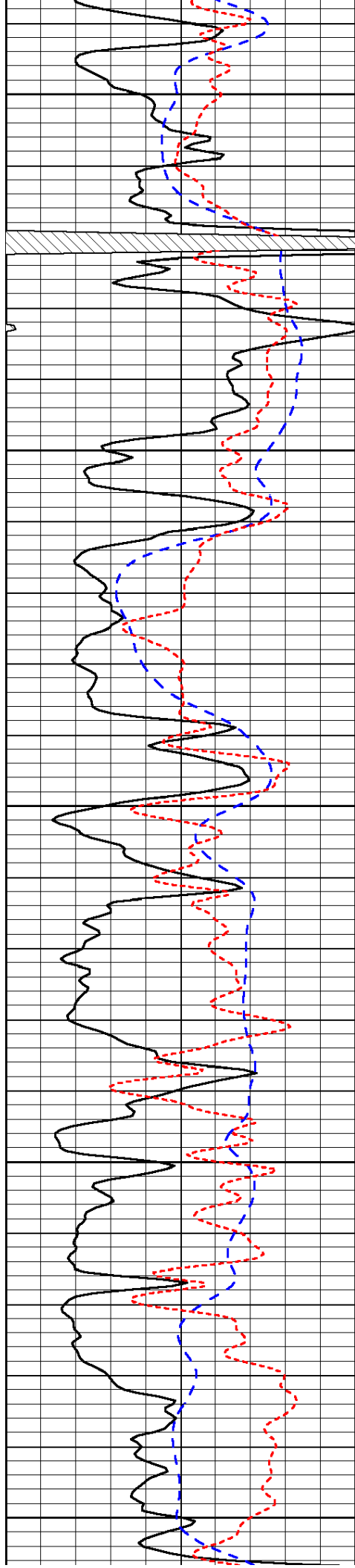


-32

-32

-32

-34



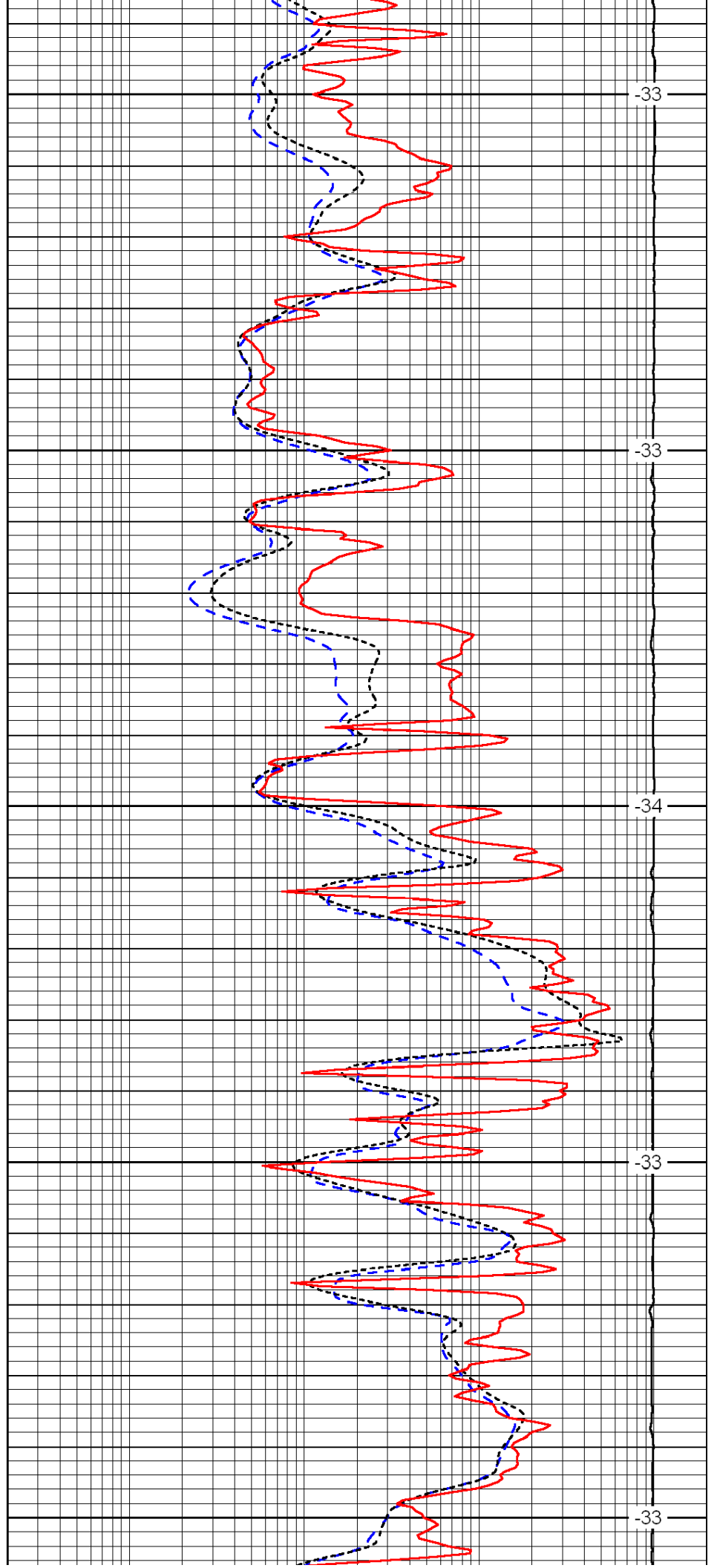
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4050

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4150



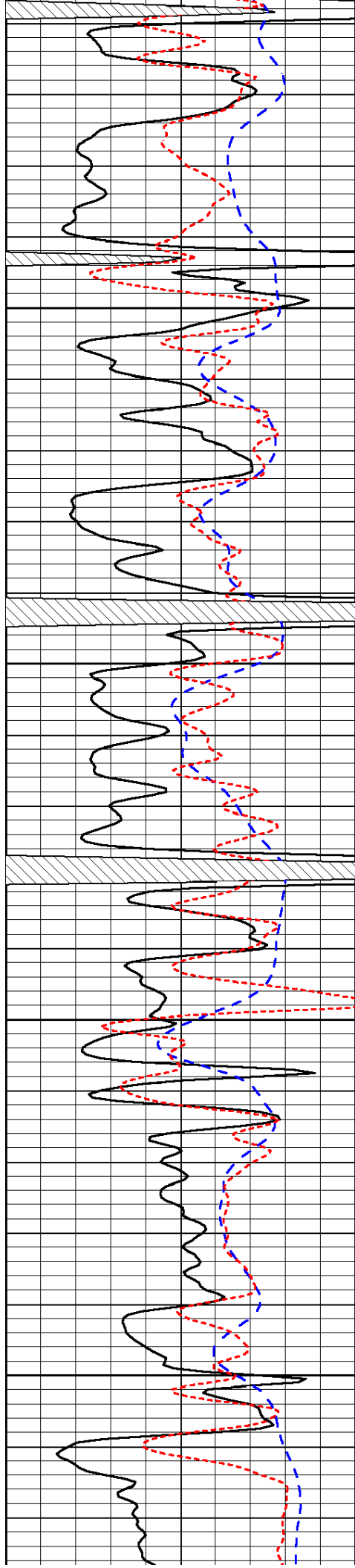
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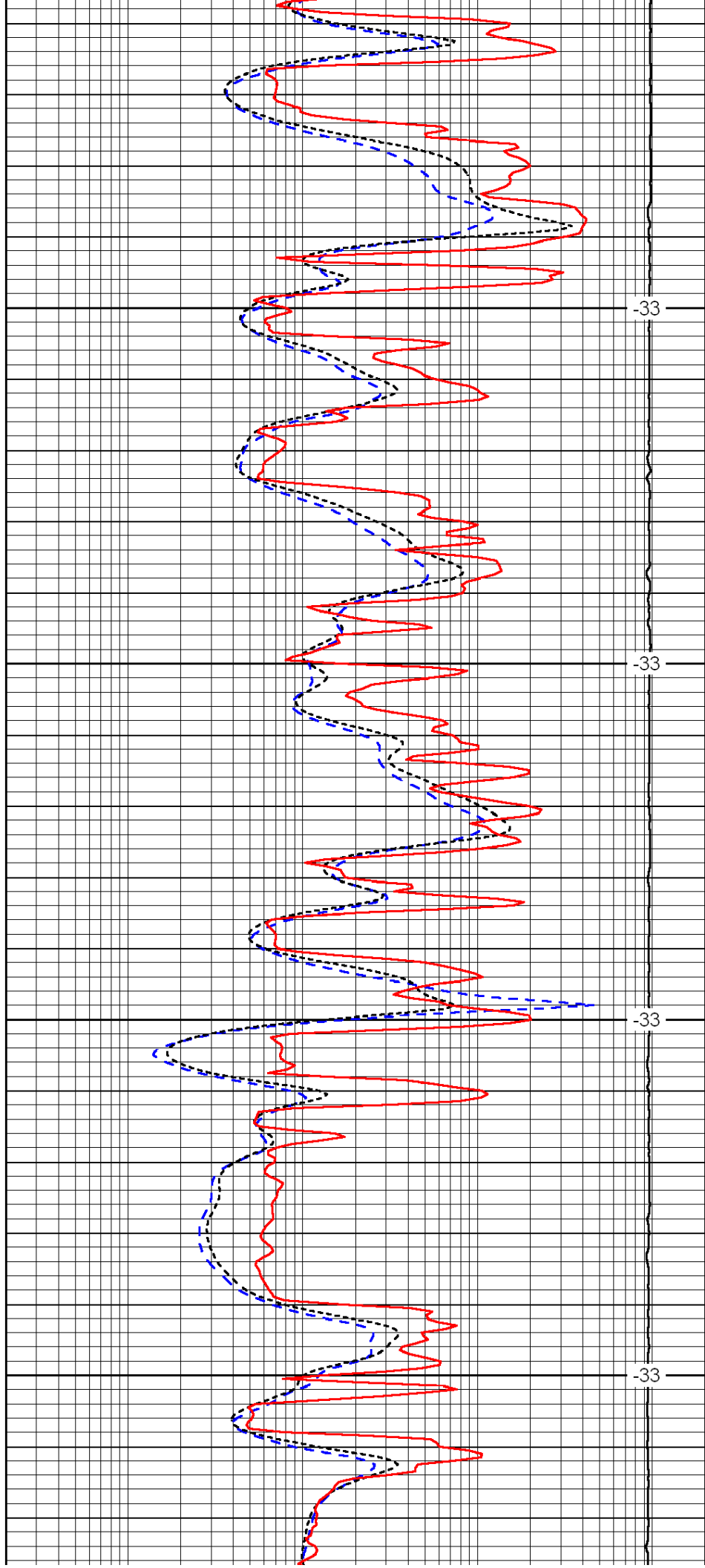


4200

4250

4300

4350

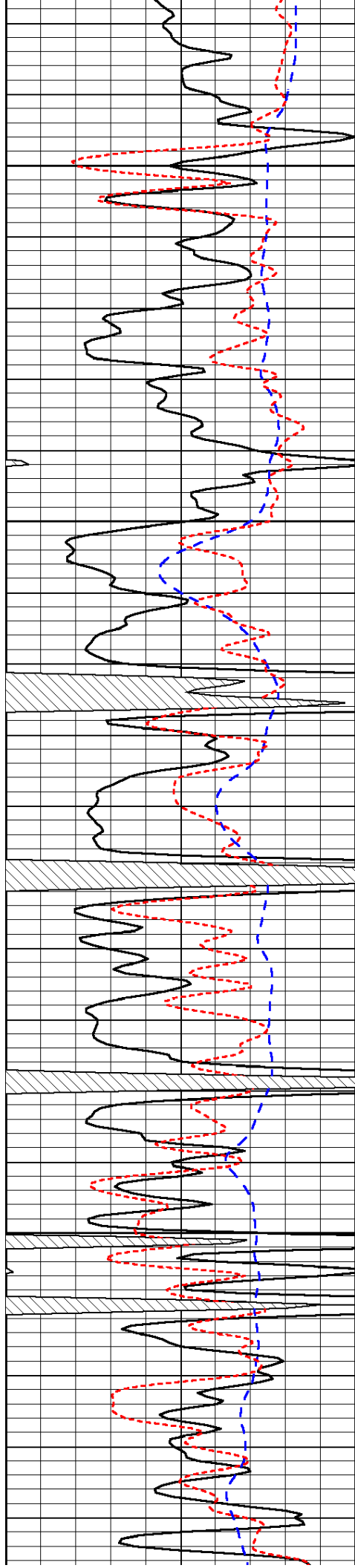


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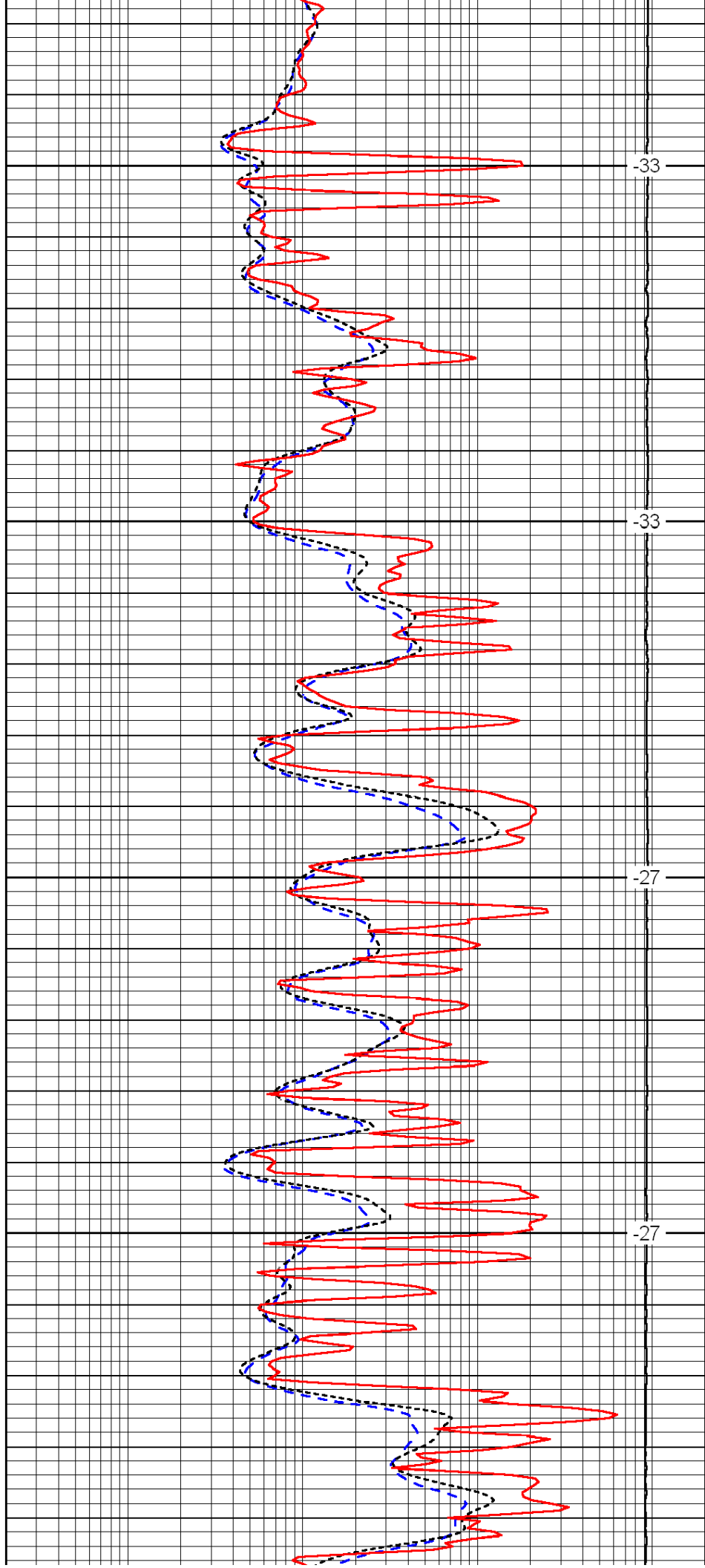


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4500

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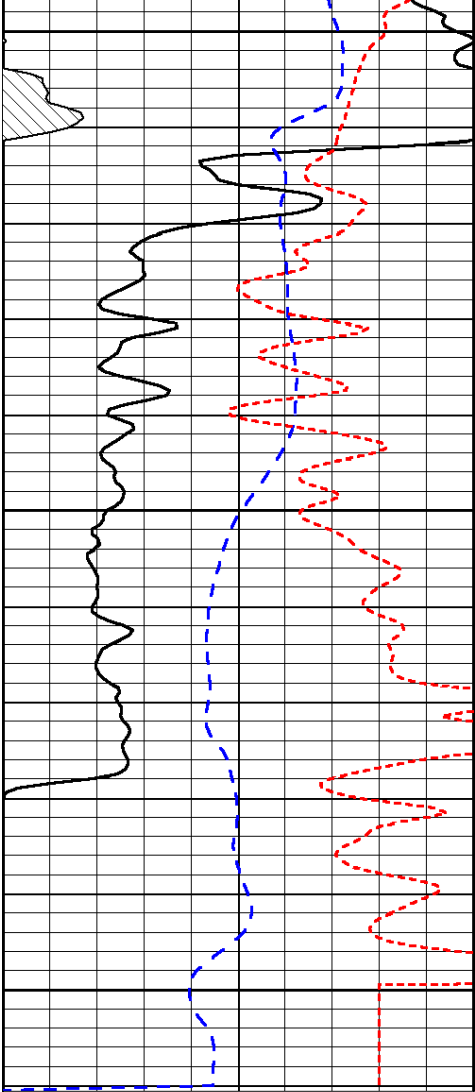


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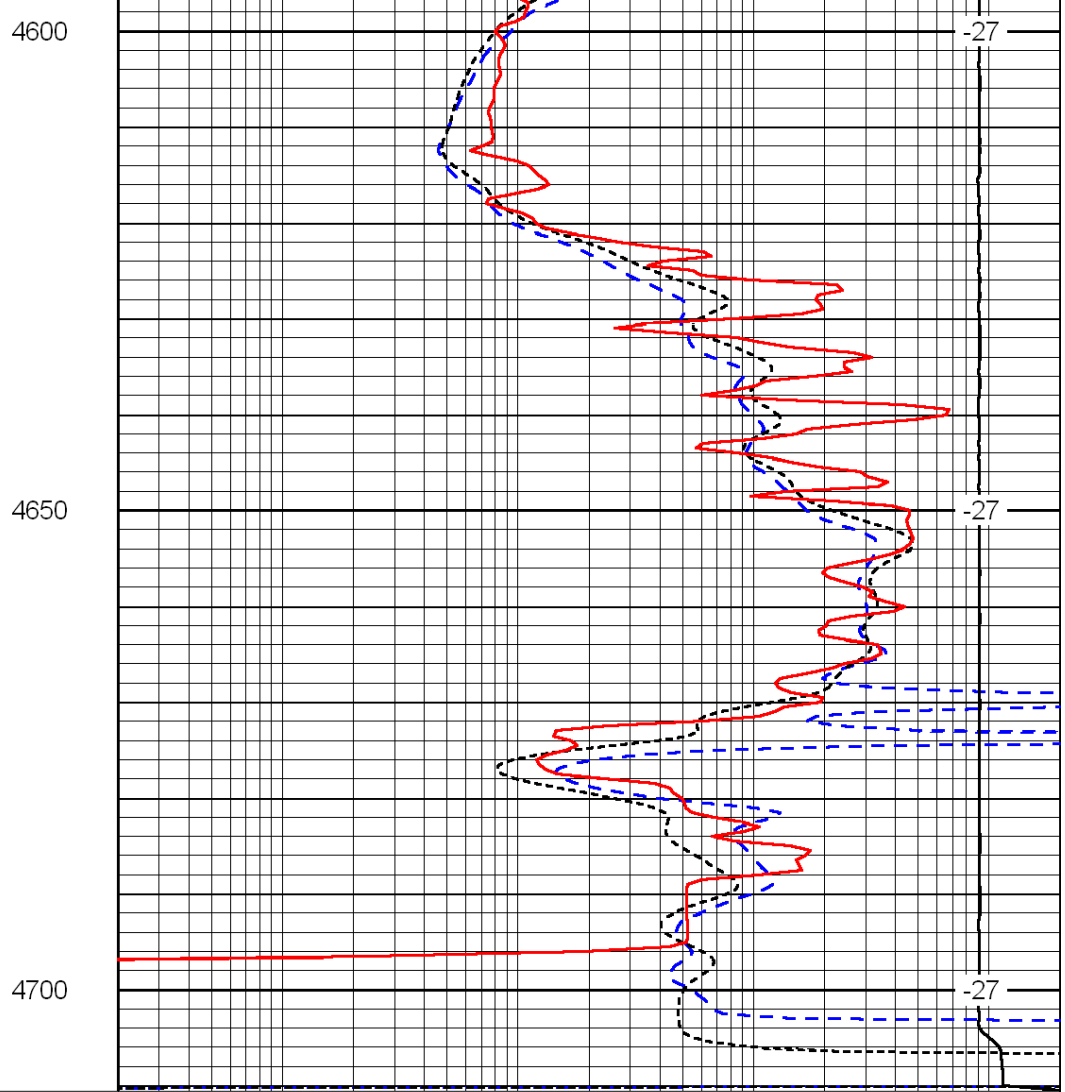
-33

-27

-27



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



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

LSPD