

LOG-TECH



Dual Induction Log

DIGITAL LOG (785) 625-3858

API No. 15-145-21,580-00-00	Company Murfin Drilling Company, Inc. Well Bowman A #1-31 Field Bow County Pawnee State Kansas	
Location Sec: 31 Twp: 22S Rge: 15W W/2 SE SE SE 330' FSL & 510' FEL	Other Services CNL / CDL MEL / BHCS	

Permanent Datum	Ground Level	Elevation 2010	
Log Measured From	Kelly Bushing	5 Ft. Above Perm. Datum	
Drilling Measured From	Kelly Bushing		
Date	3/1/2009		
Run Number	One		
Depth Driller	4057		
Depth Logger	4056		
Bottom Logged Interval	4055		
Top Log Interval	00		
Casing Driller	8.625 @ 630		
Casing Logger	630		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	22.500		
Density / Viscosity	8.9 70		
pH / Fluid Loss	10.5 8.0		
Source of Sample	Flowline		
Rm @ Meas. Temp	.33 @ 56		
Rmf @ Meas. Temp	.25 @ 56		
Rmc @ Meas. Temp	.45 @ 56		
Source of Rmf / Rmc	Charts		
Rm @ BHT	.16 @ 116		
Operating Rig Time	5 Hours		
Max Rec. Temp. F	116		
Equipment Number	17		
Location	Hays		
Recorded By	T. Martin		
Witnessed By	Bob Stolzie		

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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

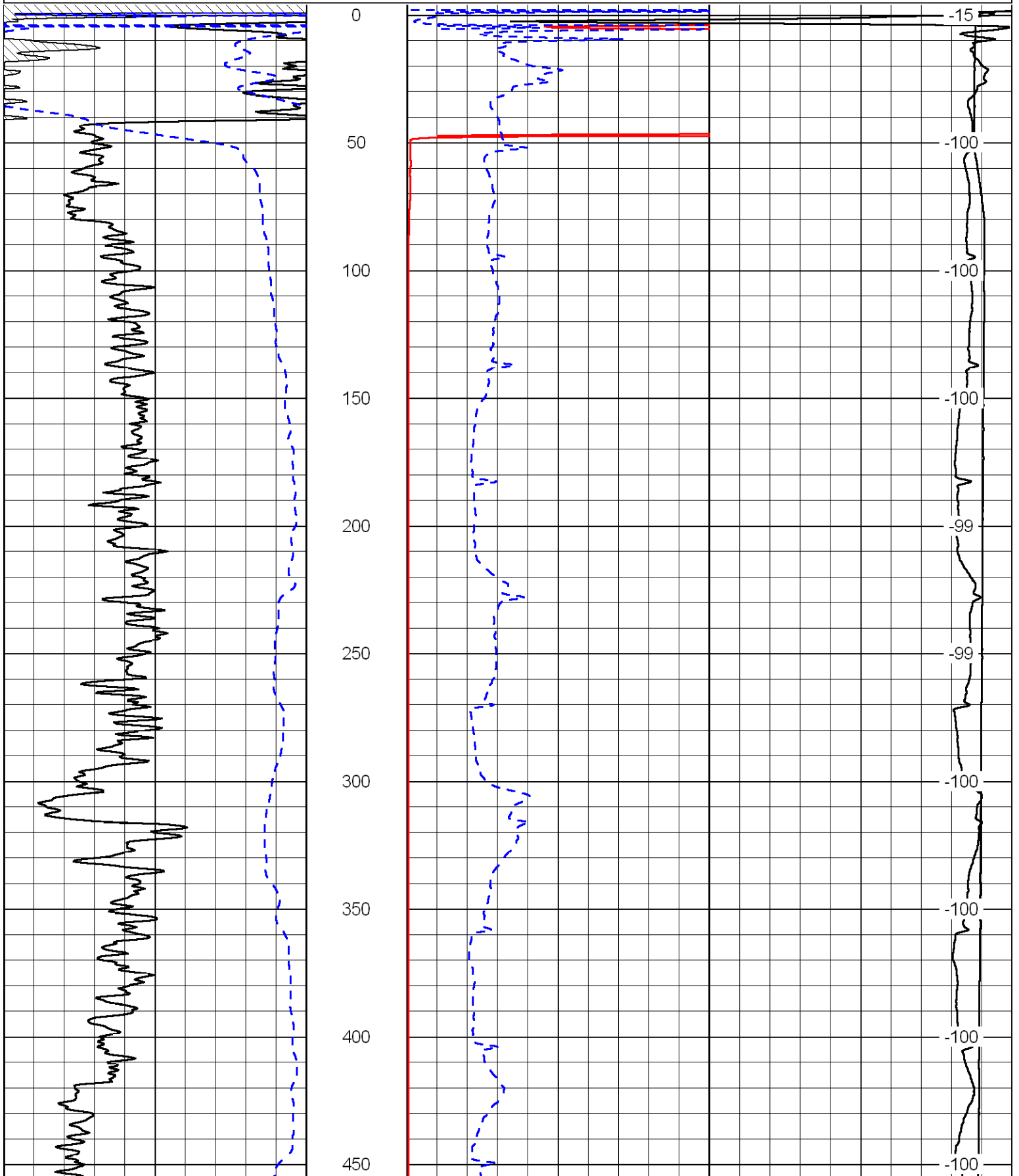
Larned, 5 S on 19 to G Rd, 5 E, N into

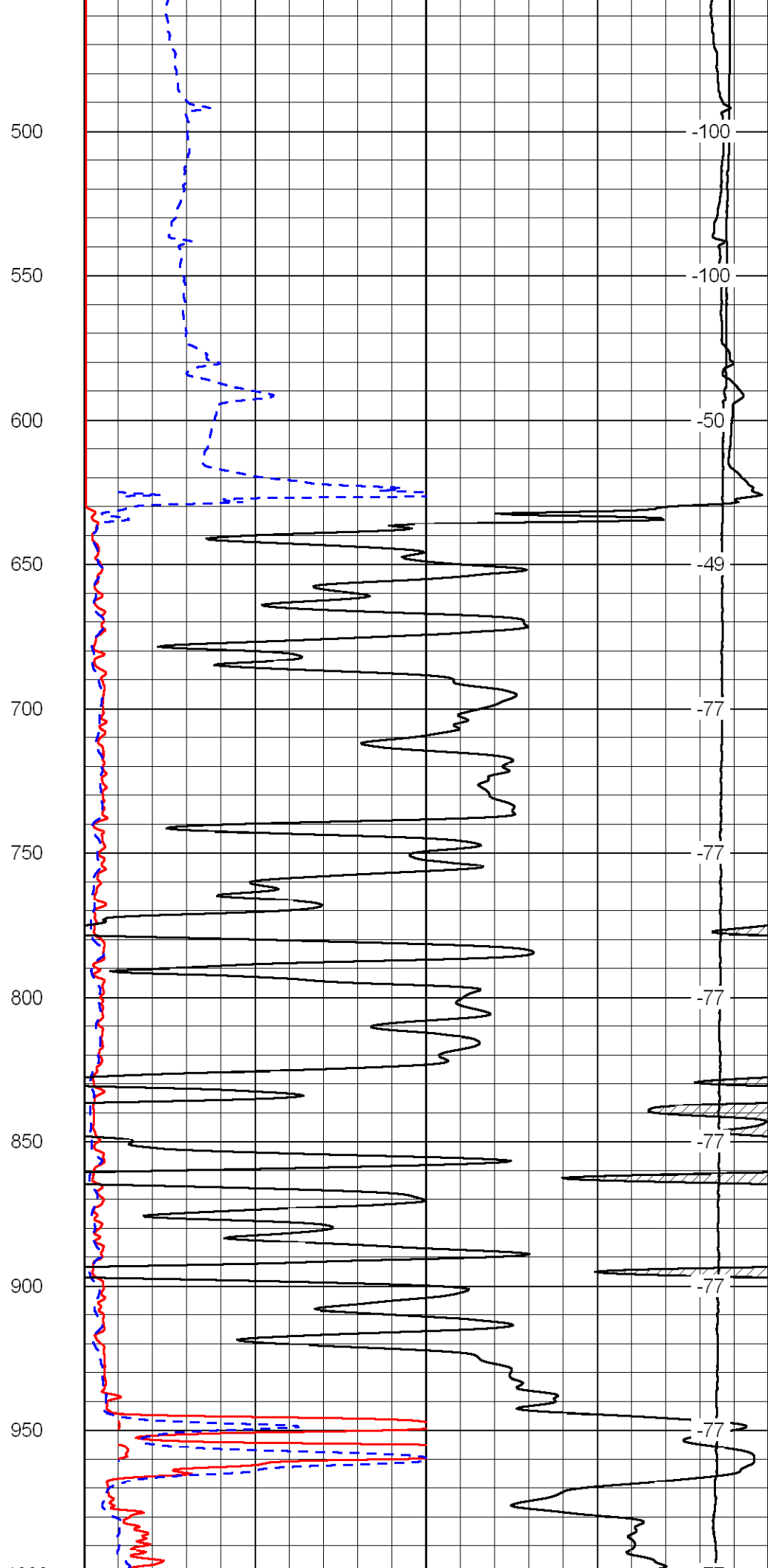
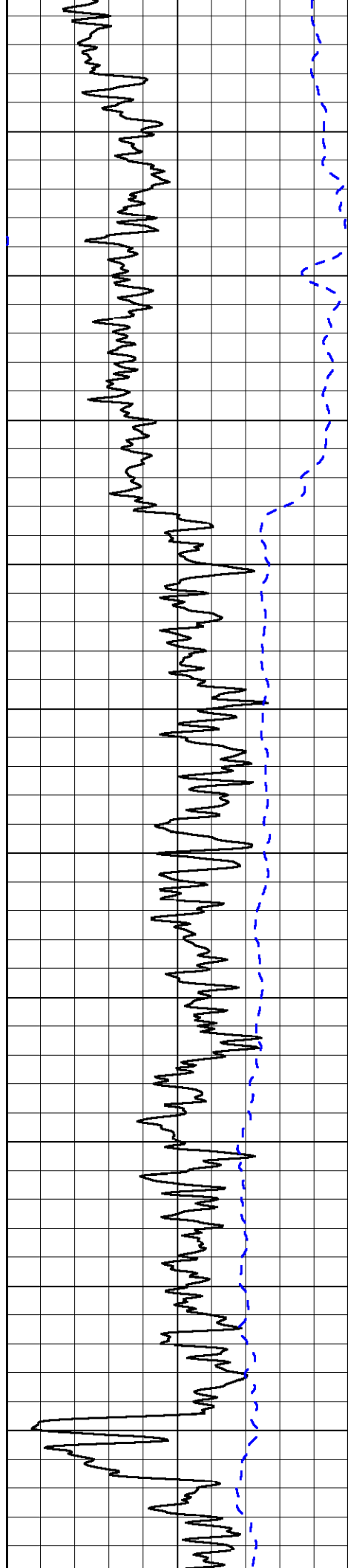
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 Presentation Format: dil2in
 Dataset Creation: Sun Mar 01 14:51:04 2009
 Charted by: Depth in Feet scaled 1:600

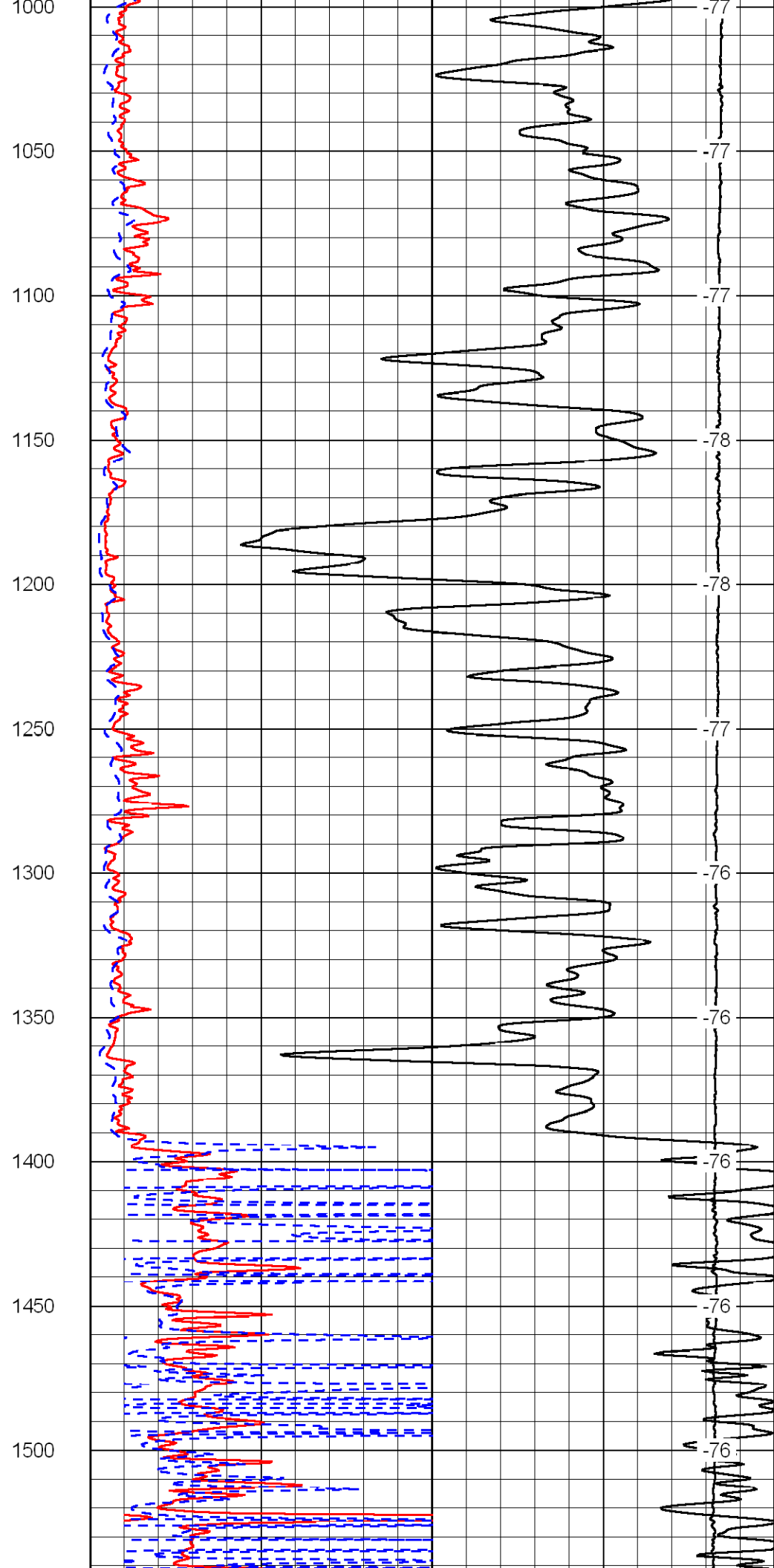
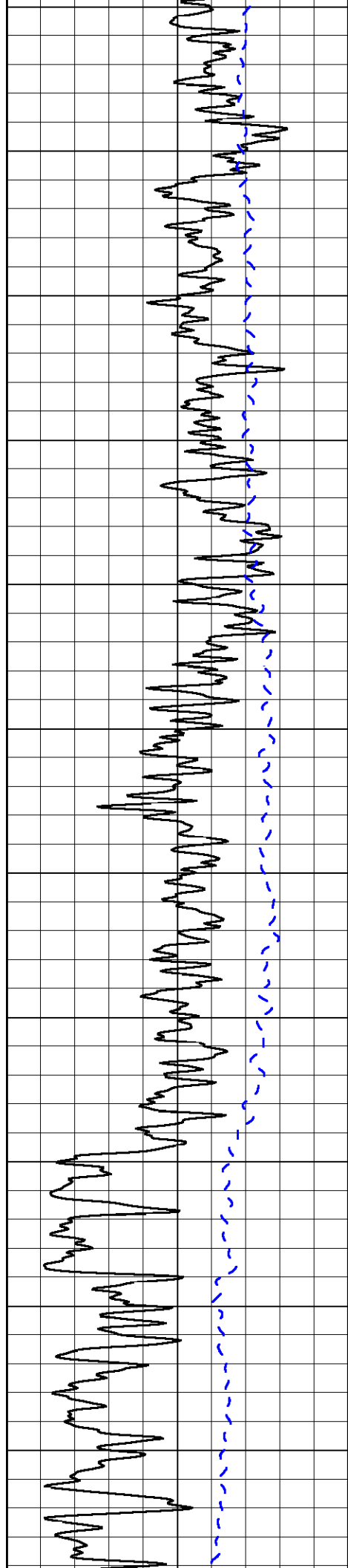
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-200	SP (MV)	0

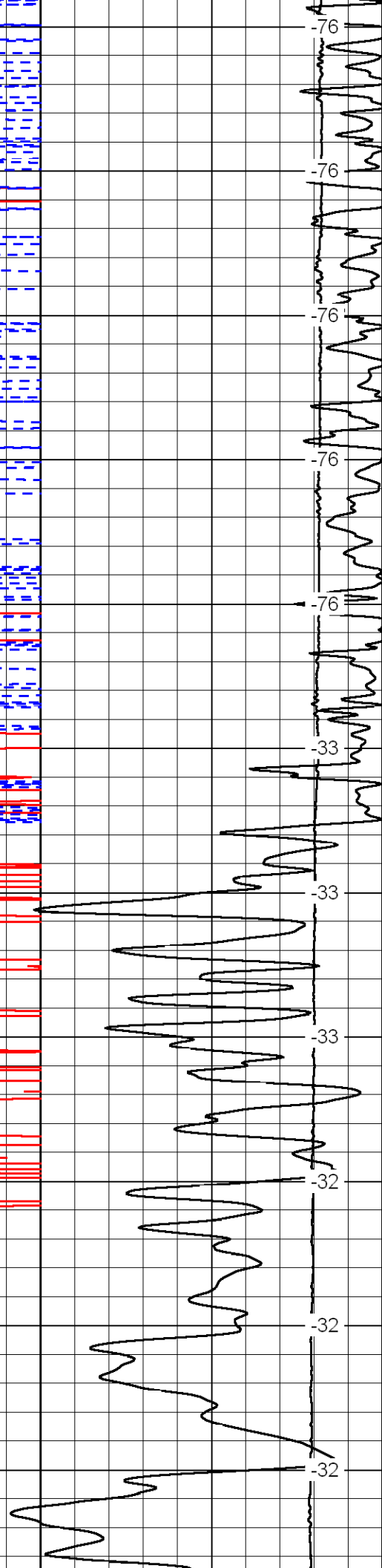
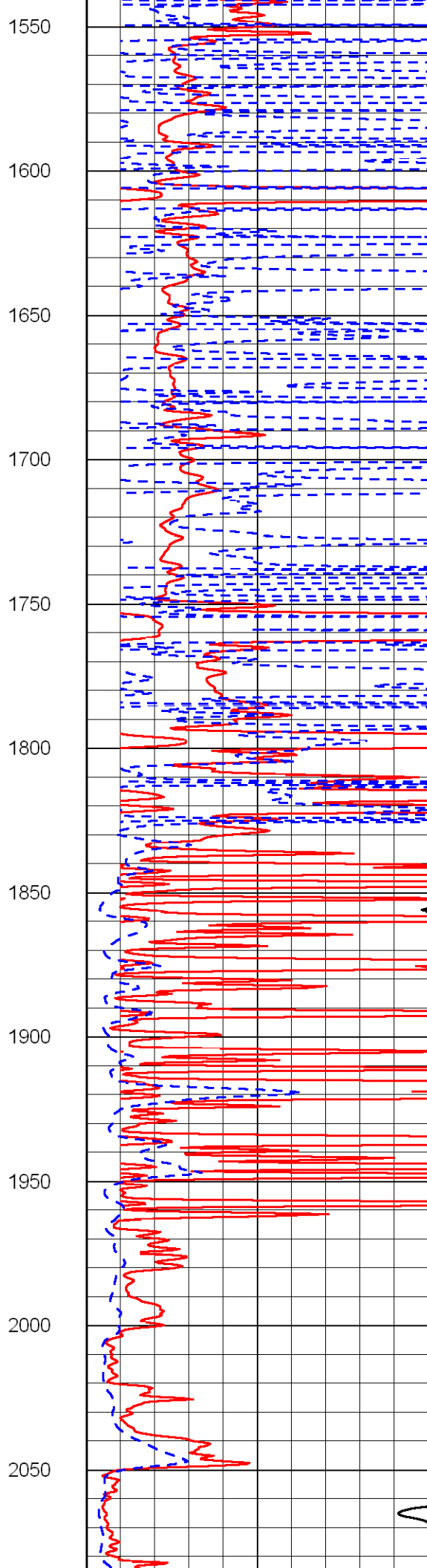
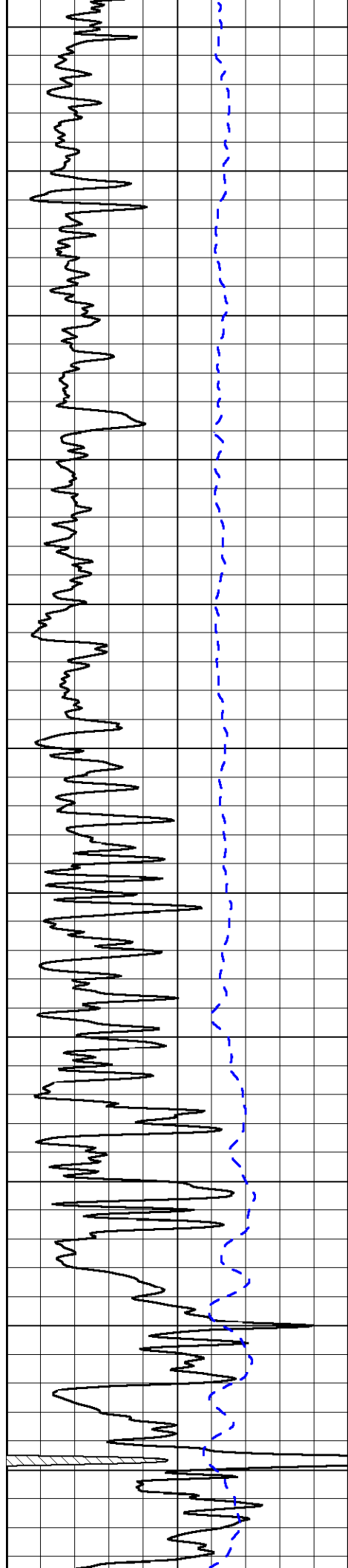
0	Shallow Resistivity (Ohm-m)	50
0	Deep Resistivity (Ohm-m)	50
1000	Conductivity (mmho/m)	0
15000	Line Tension (lb)	0
50	Shallow Resistivity (Ohm-m)	500
50	Deep Resistivity (Ohm-m)	500

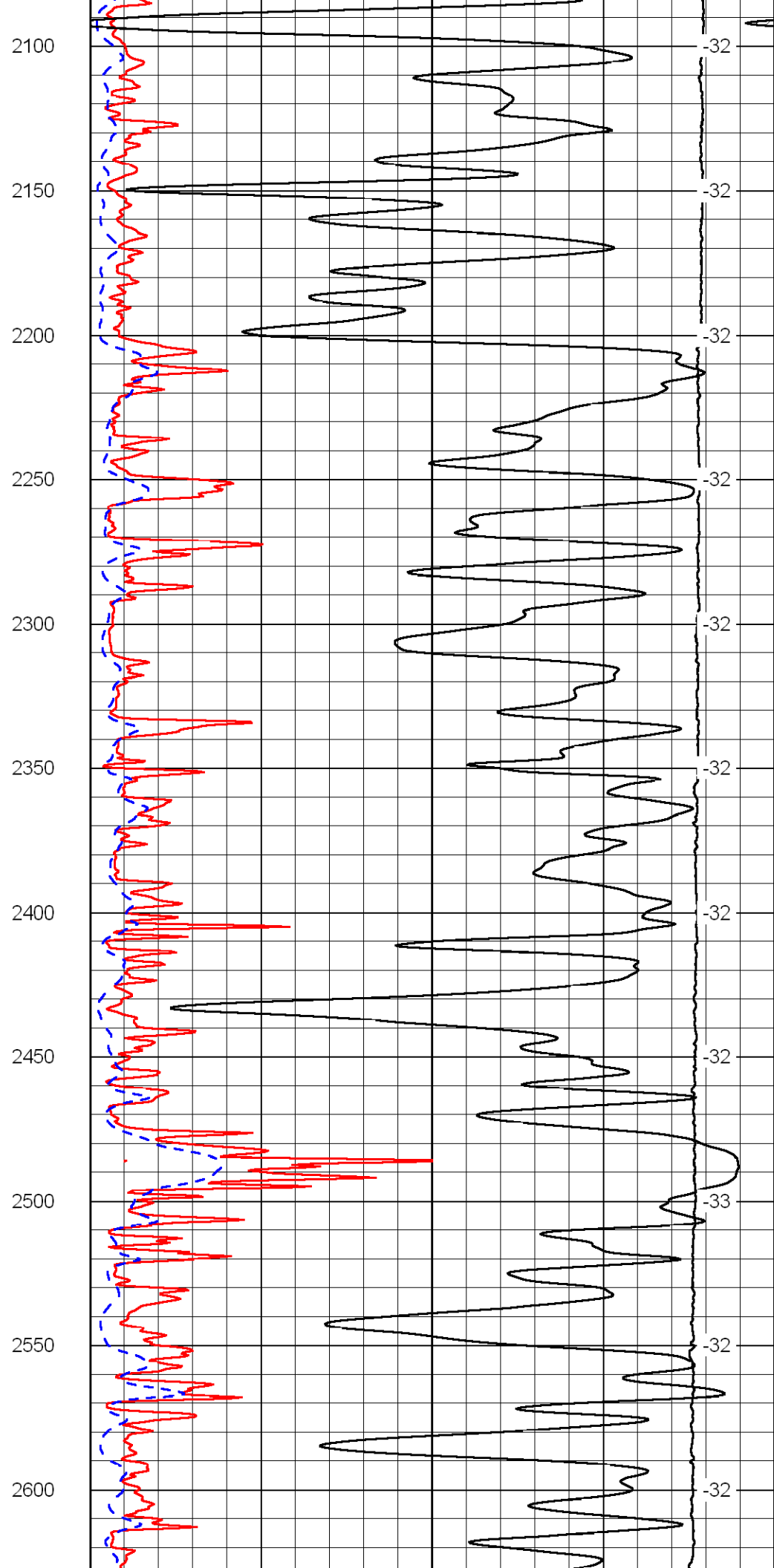
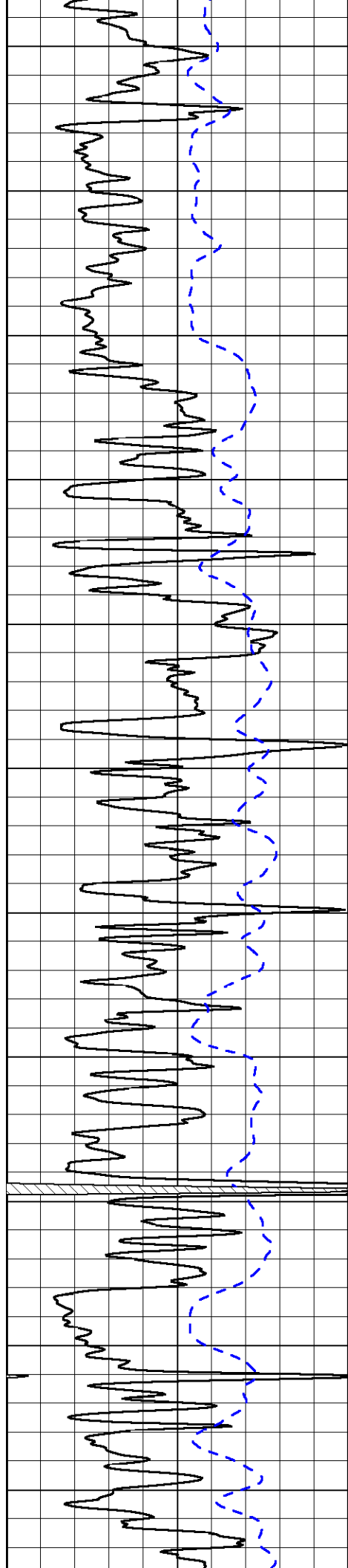
LSPD
(ft/min)

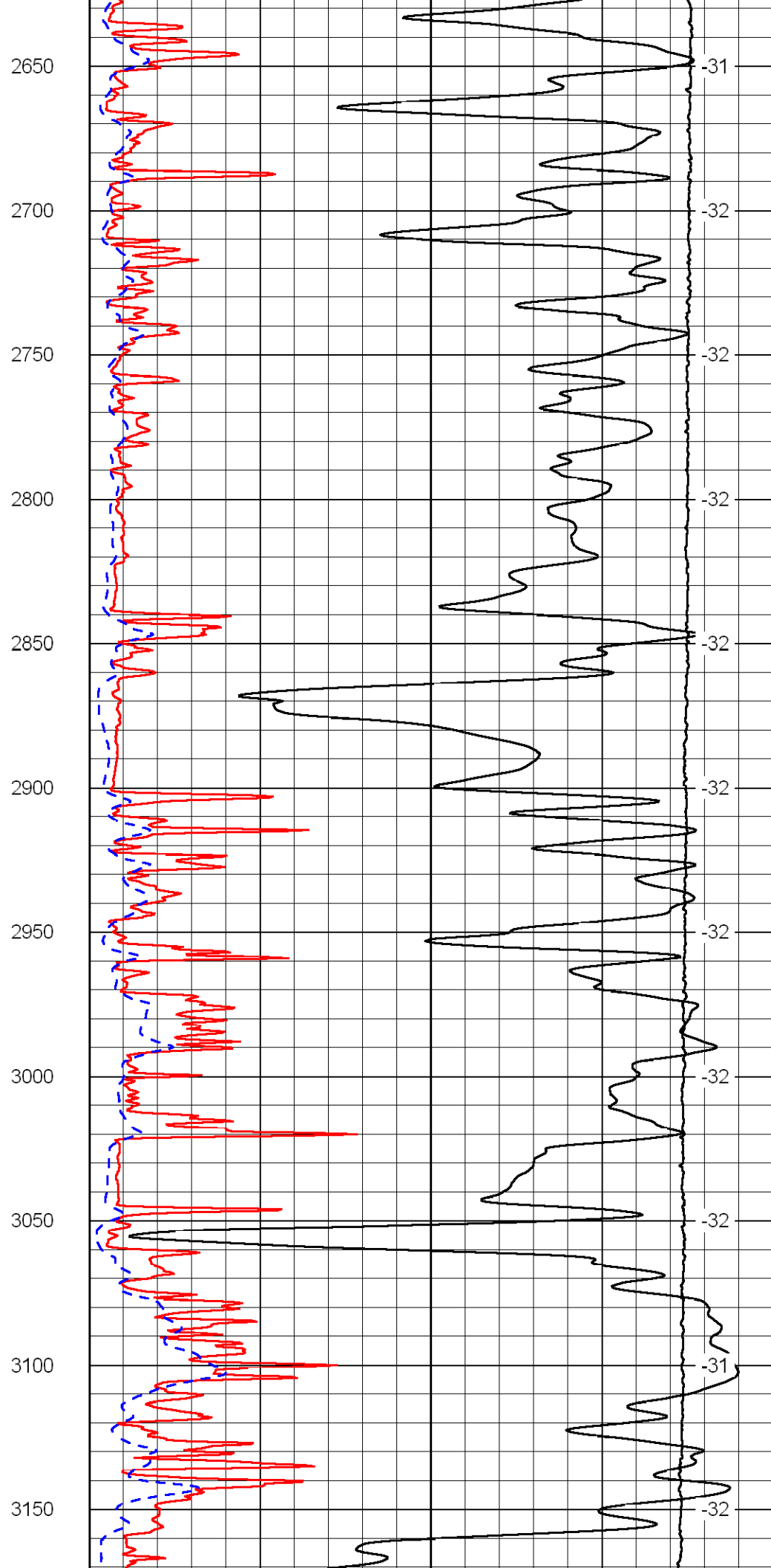
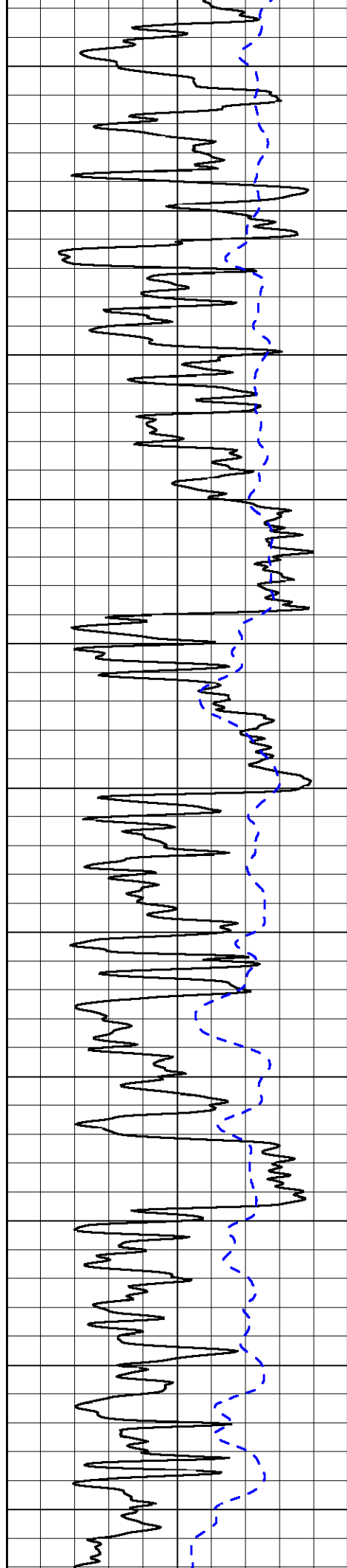


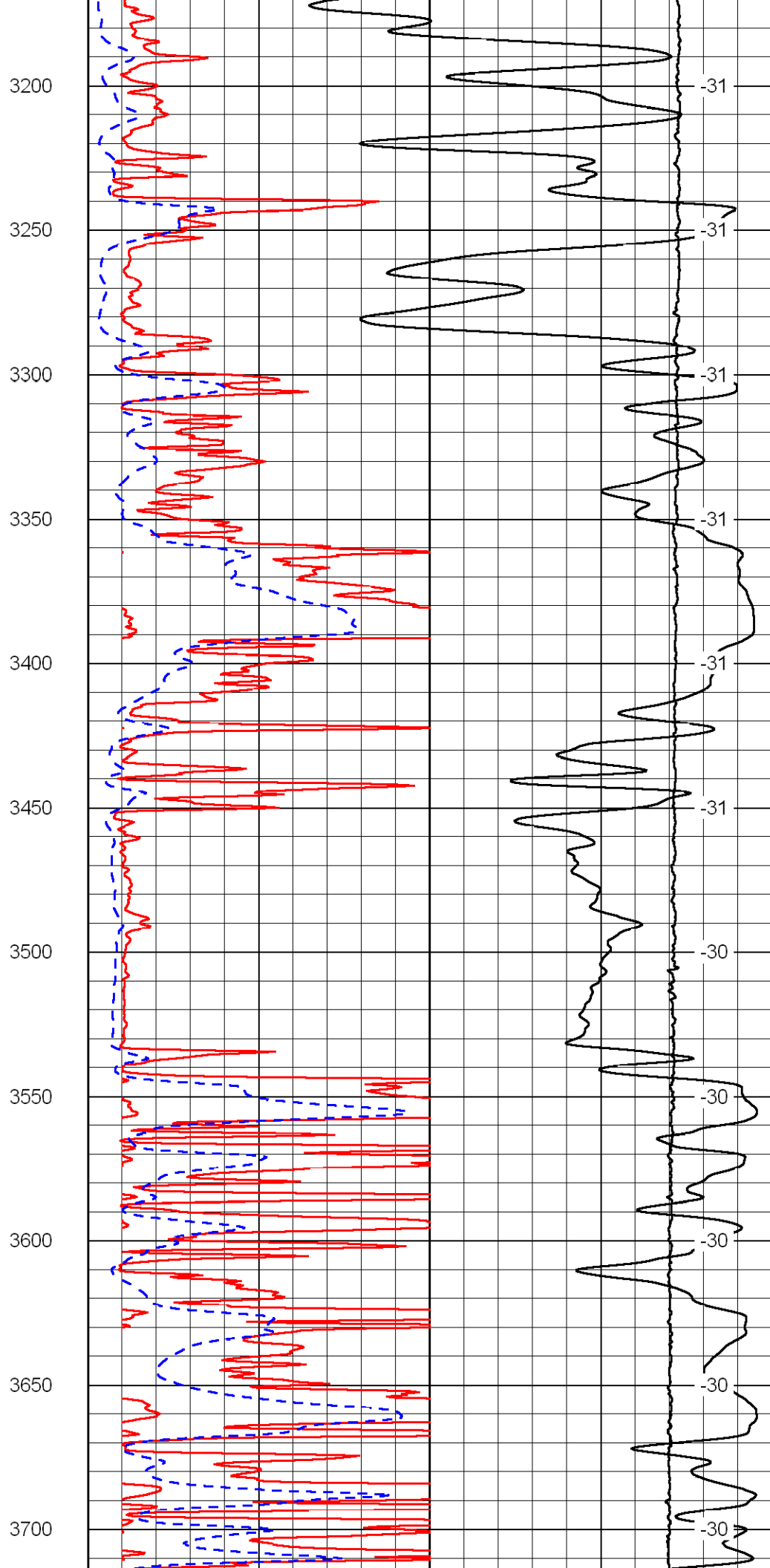
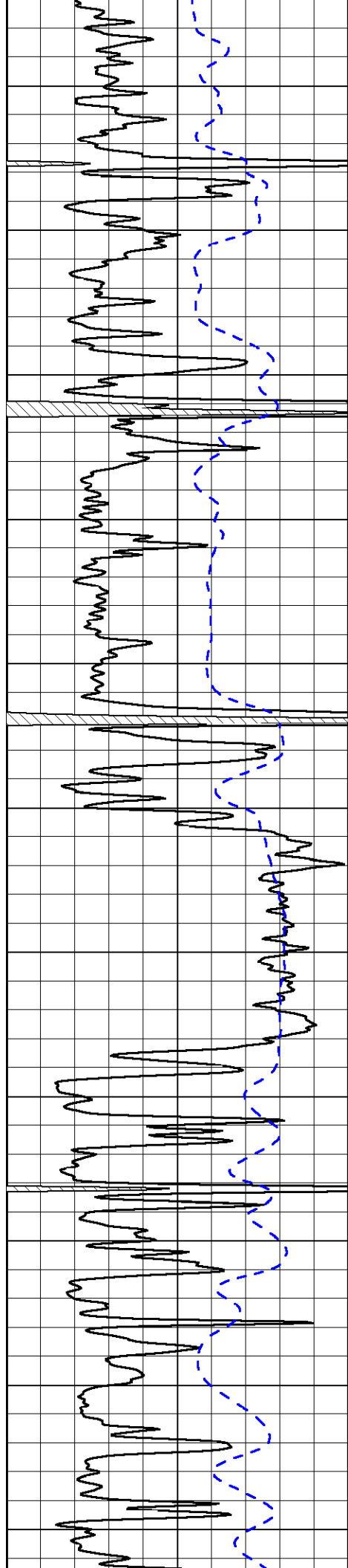


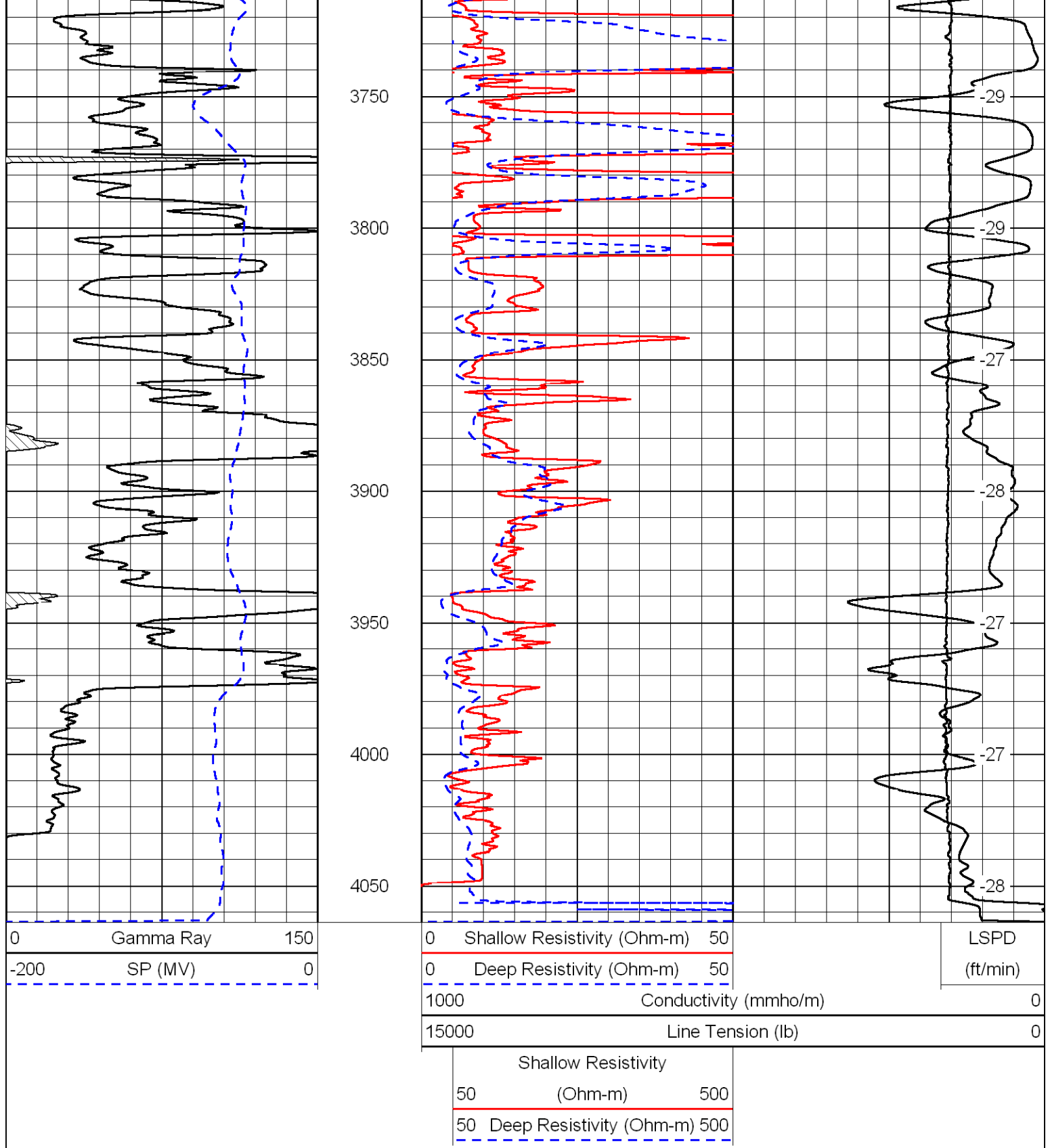






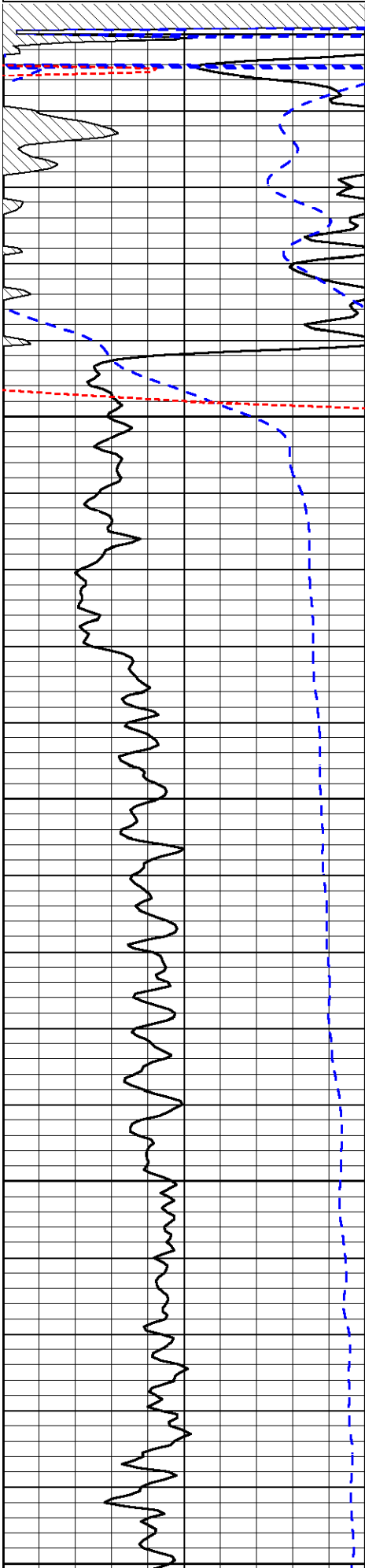






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Presentation Format: dil		
Dataset Creation: Sun Mar 01 14:51:04 2009		
Charted by: Depth in Feet scaled 1:240		
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-200	SP (MV)	0
-160	Rxo / Rt	40
0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000
15000	Line Tension (lb)	0

LSPD
(ft/min)



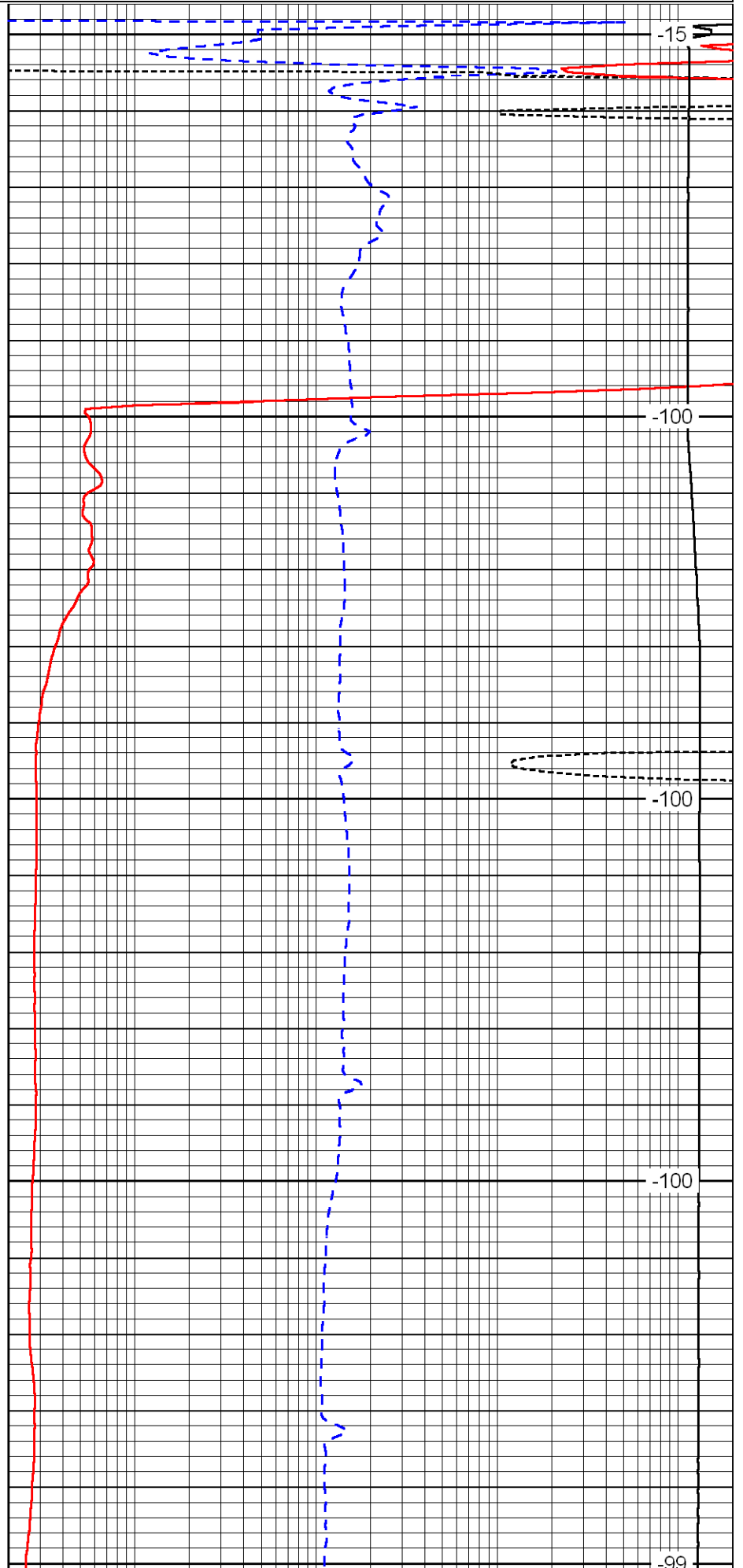
0

50

100

150

200



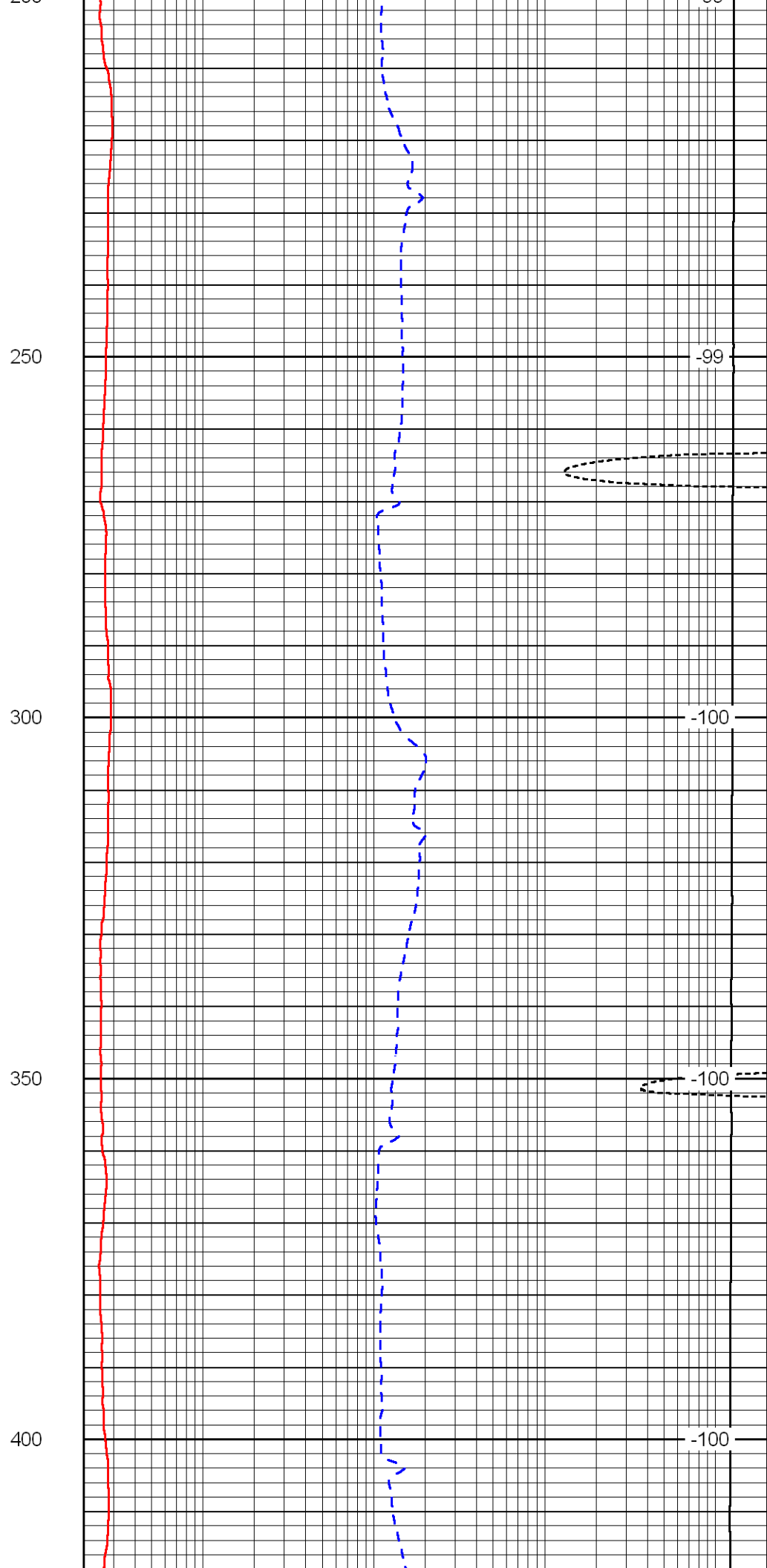
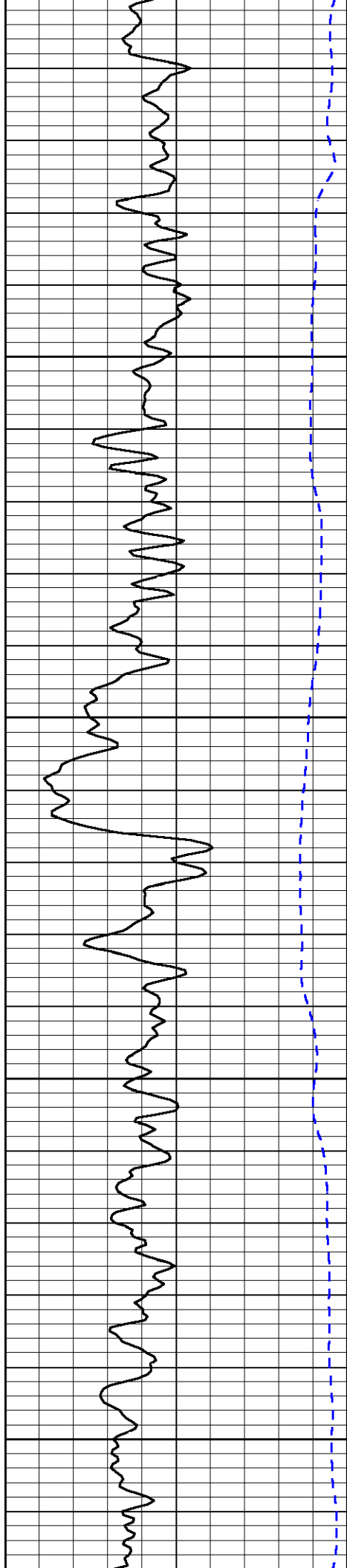
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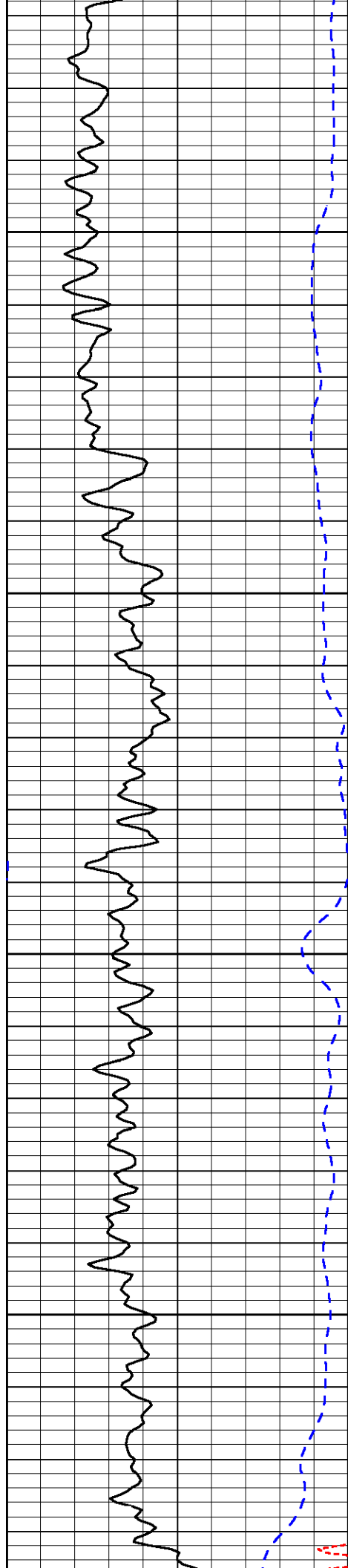
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-100

-100

-99



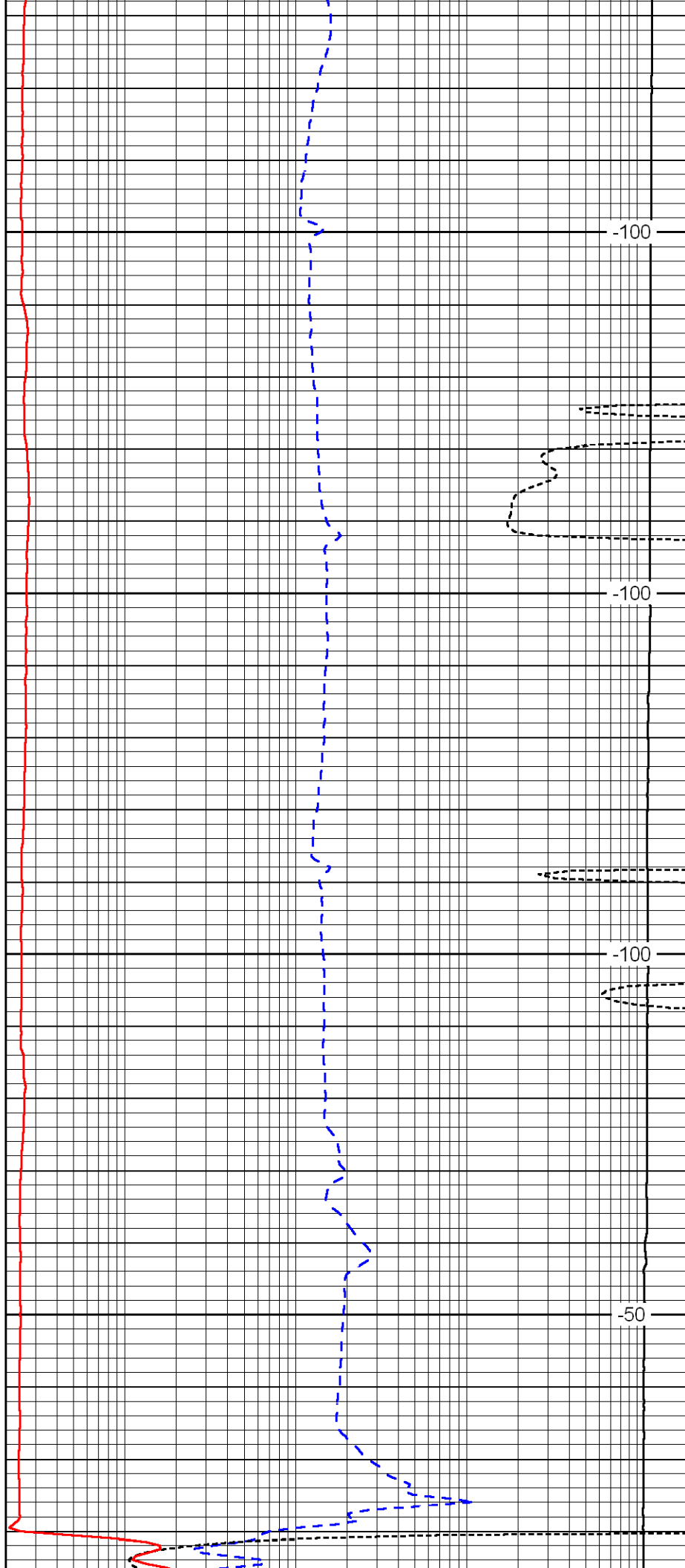


450

500

550

600

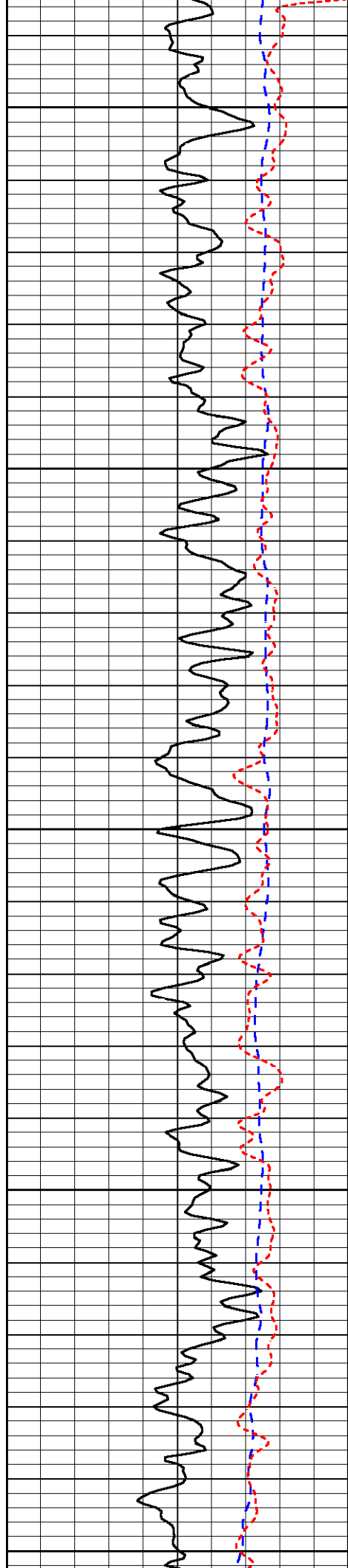


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-100

-100

-50



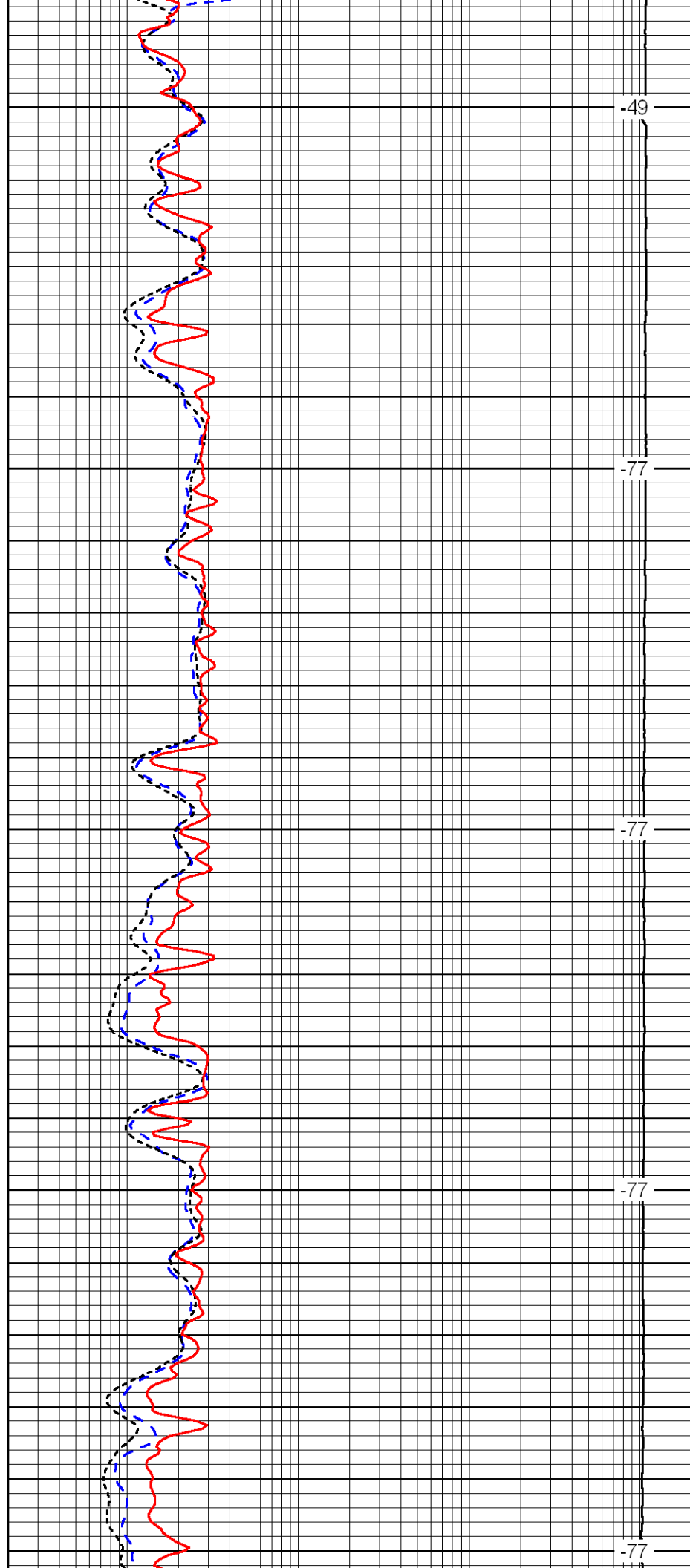
650

700

750

800

850



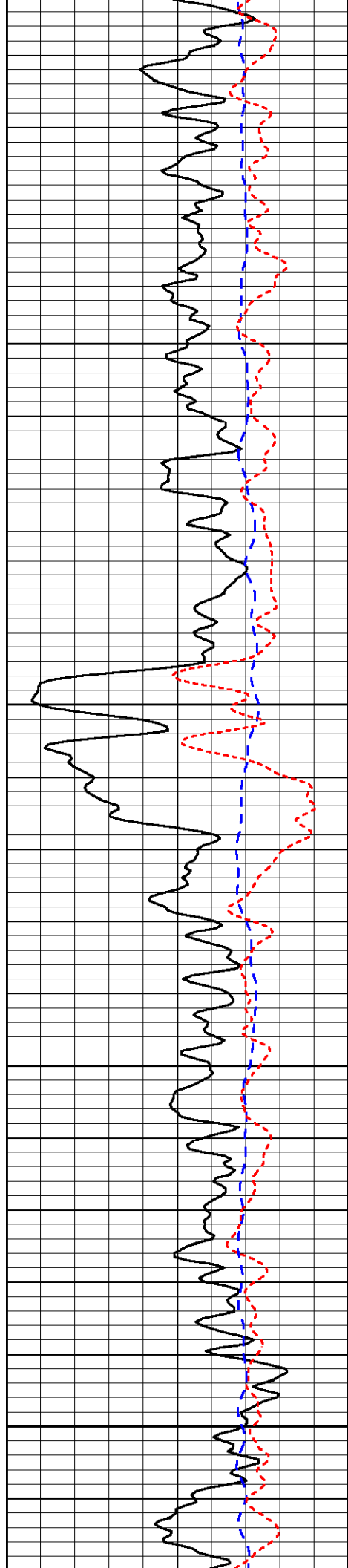
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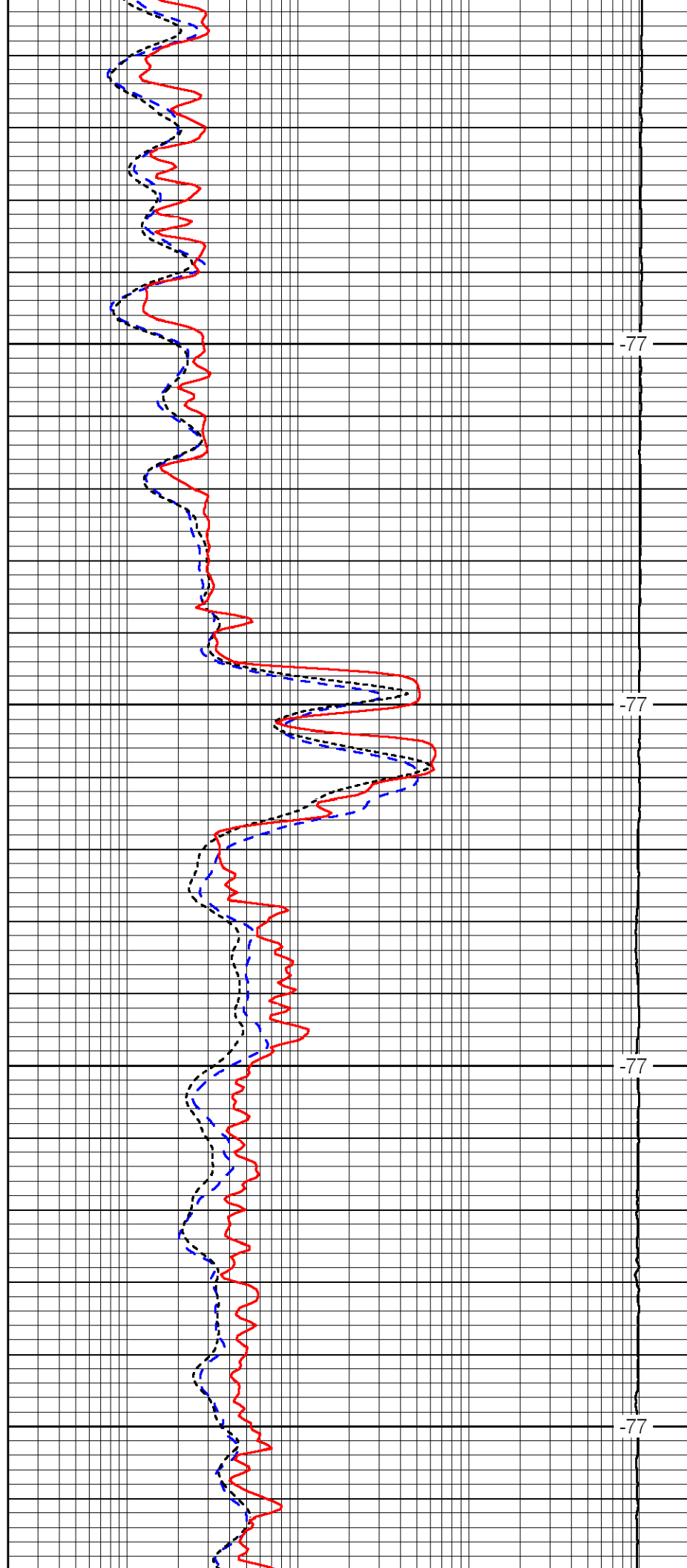


900

950

1000

1050

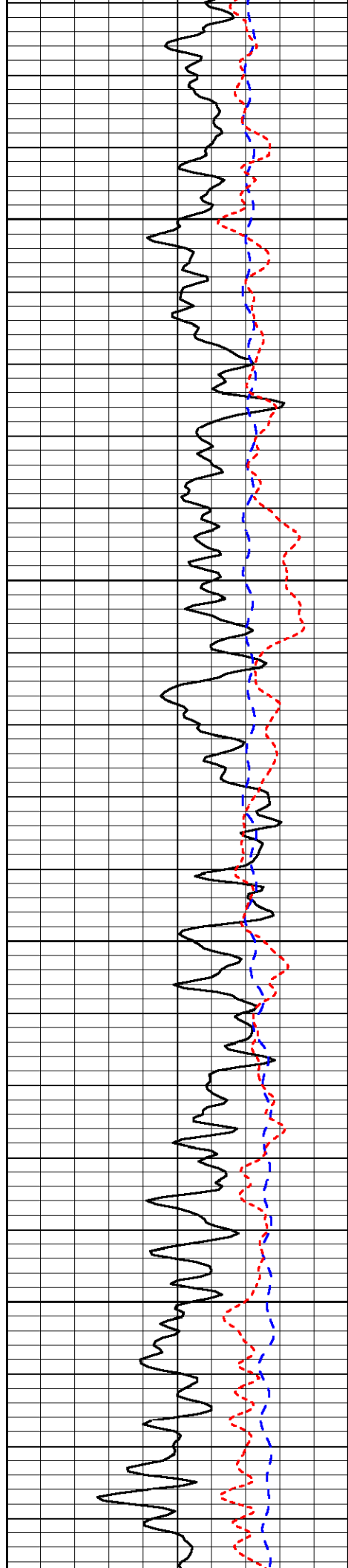


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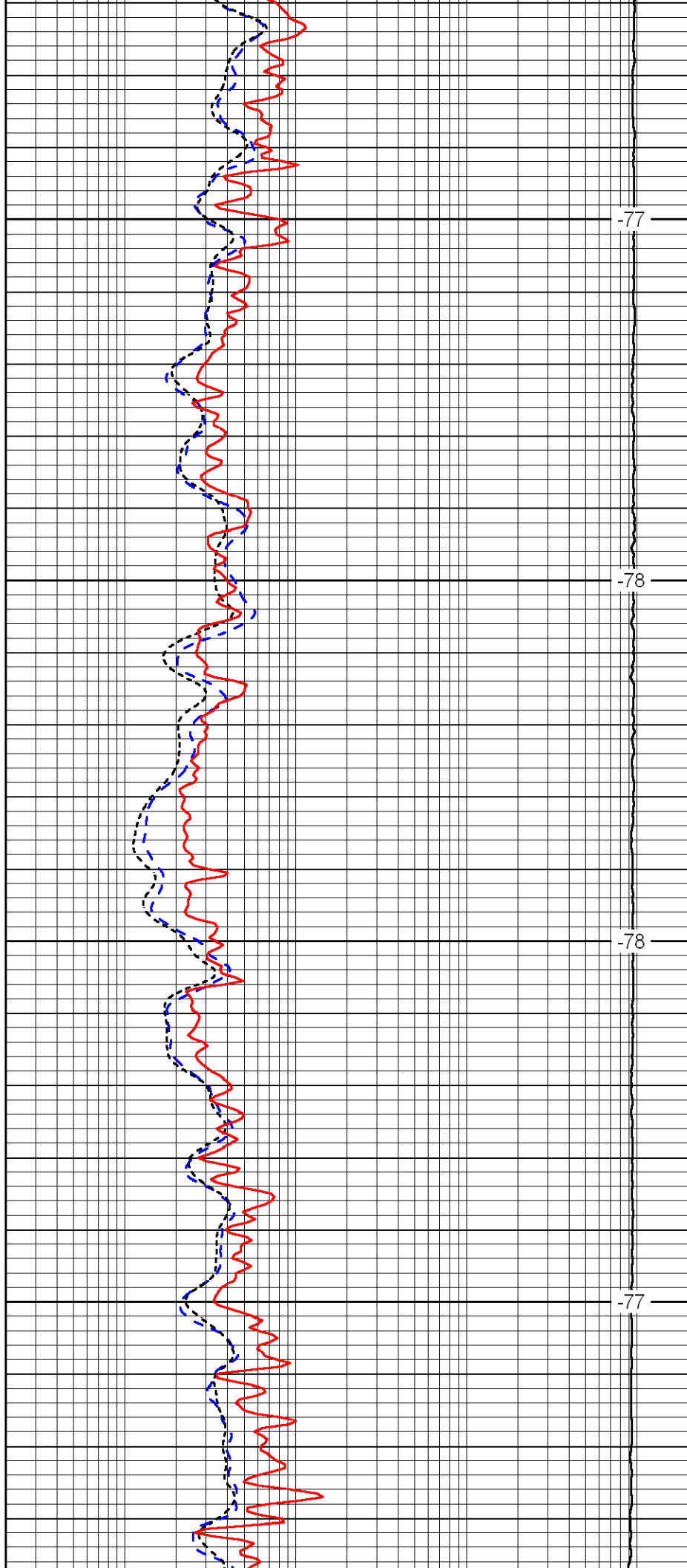


1100

1150

1200

1250

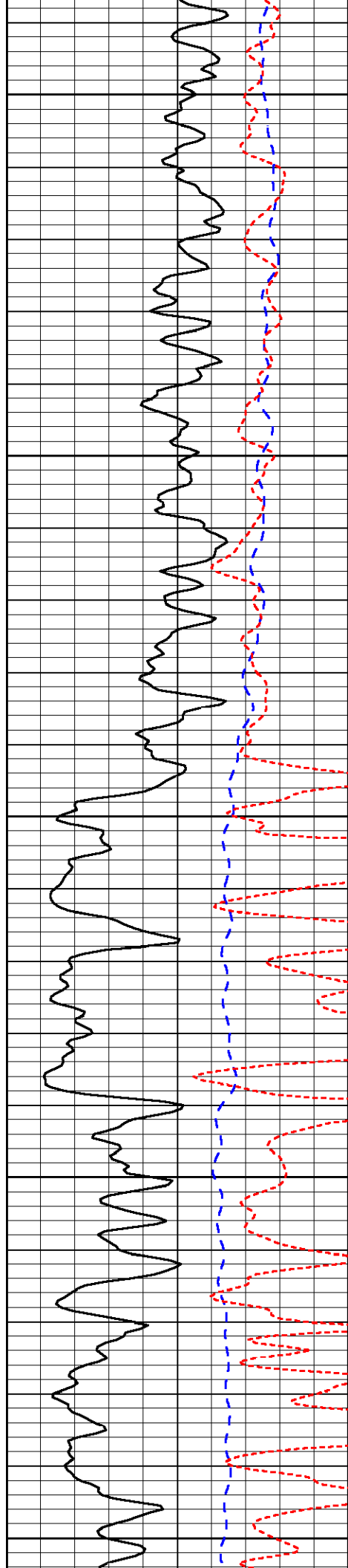


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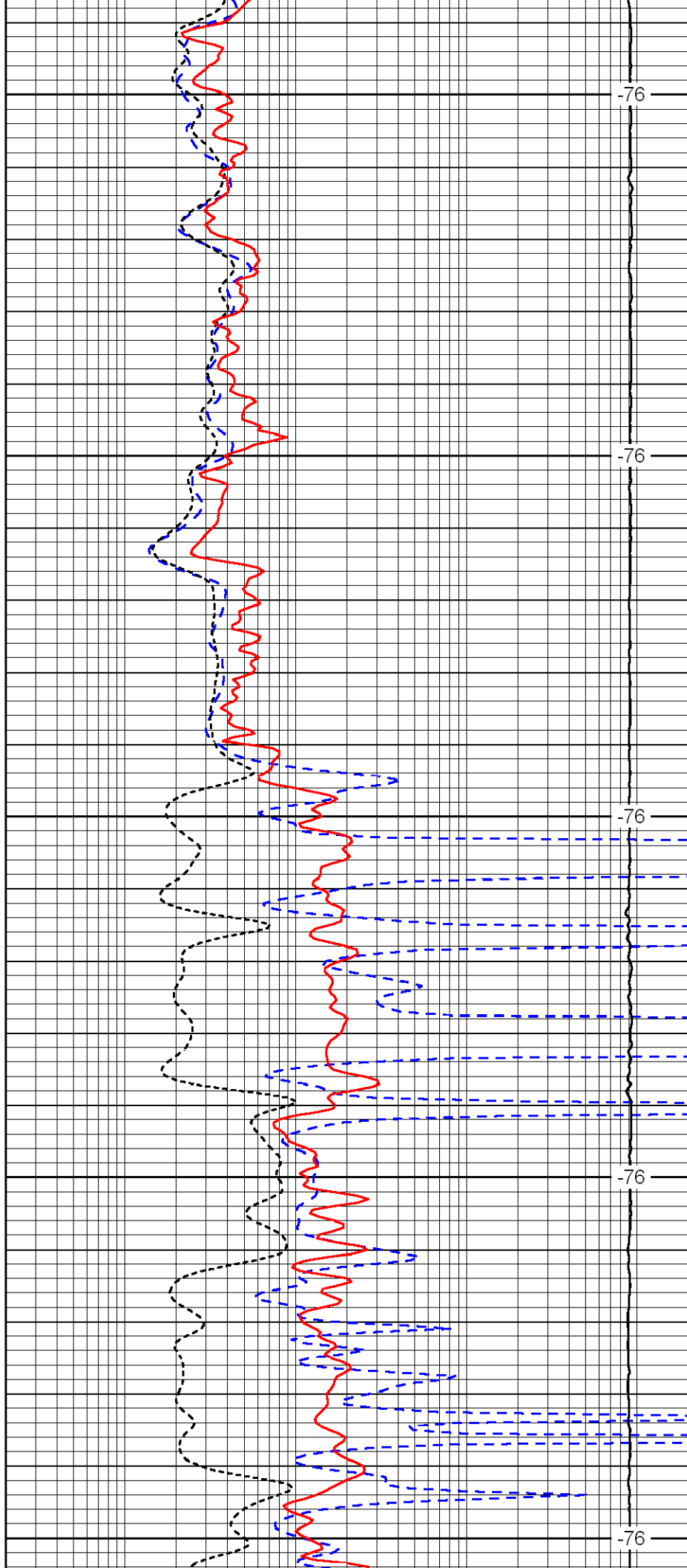
1300

1350

1400

1450

1500



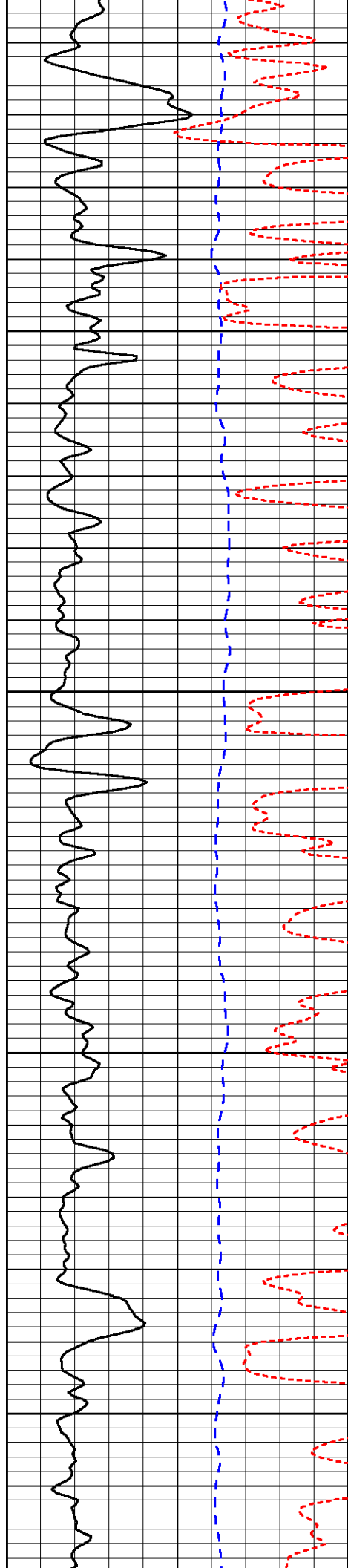
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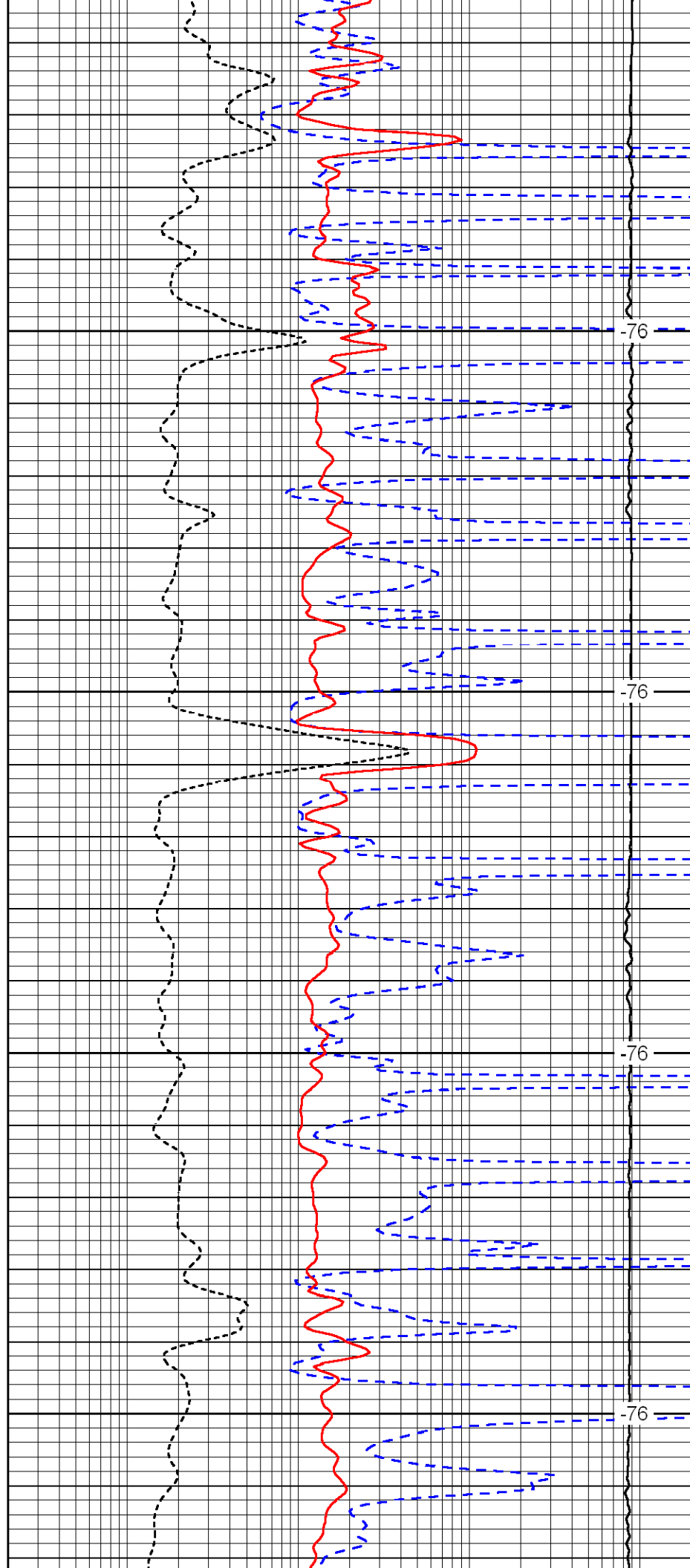


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1700

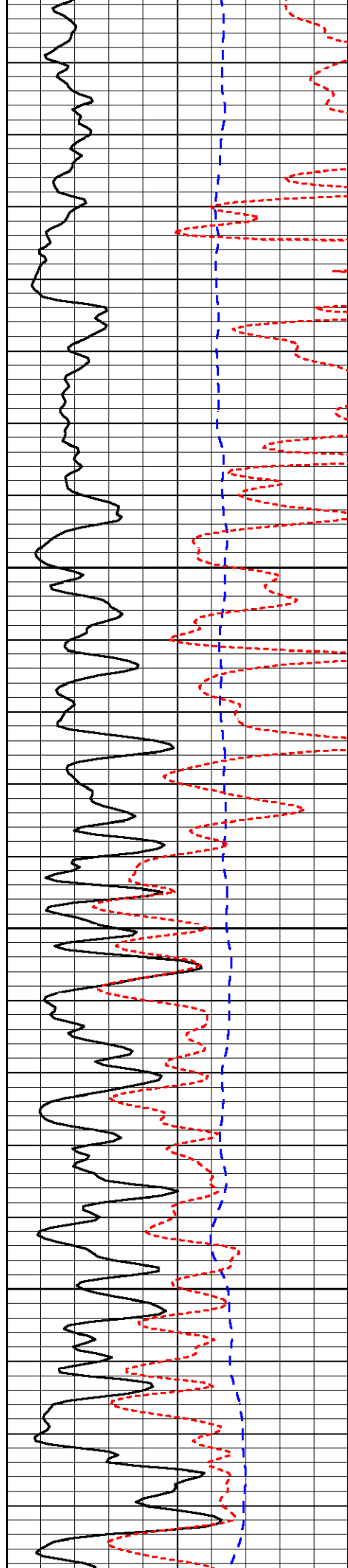


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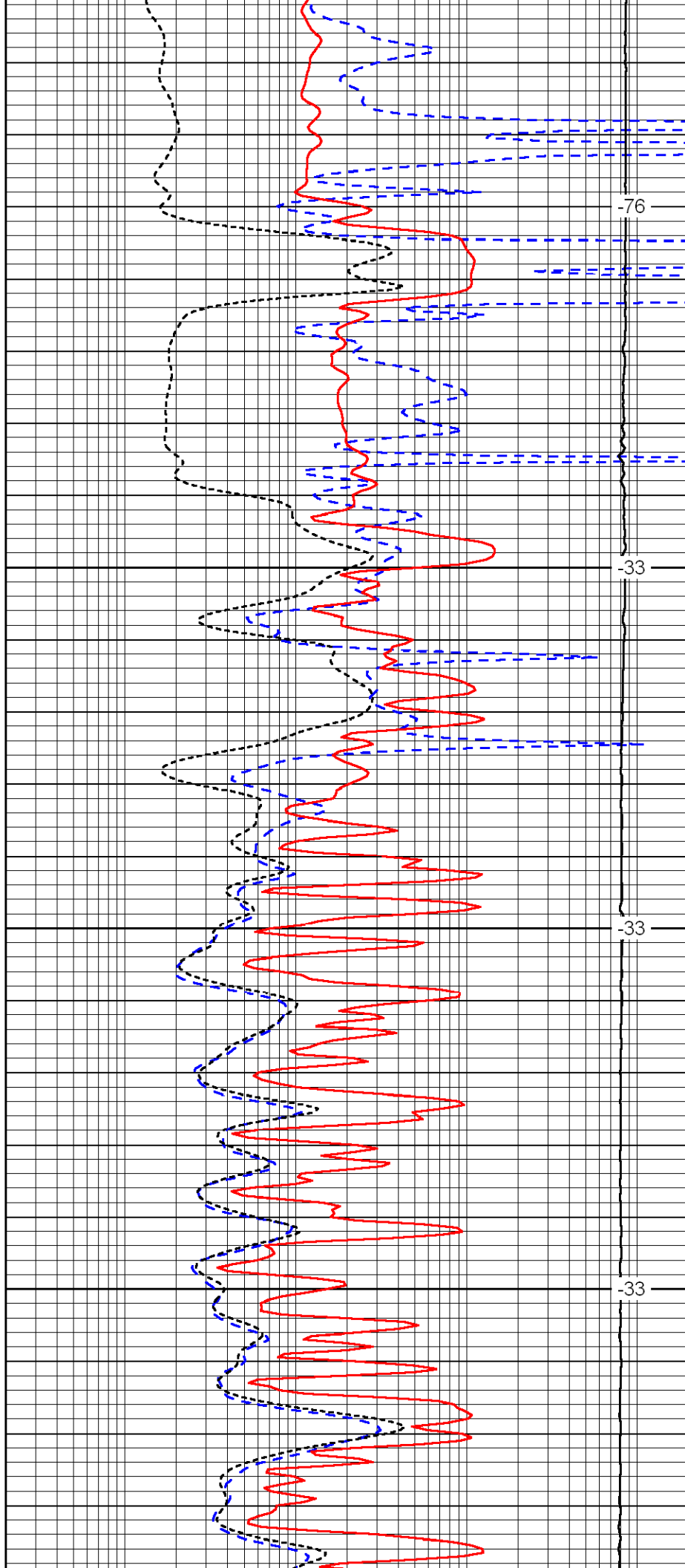


1750

1800

1850

1900

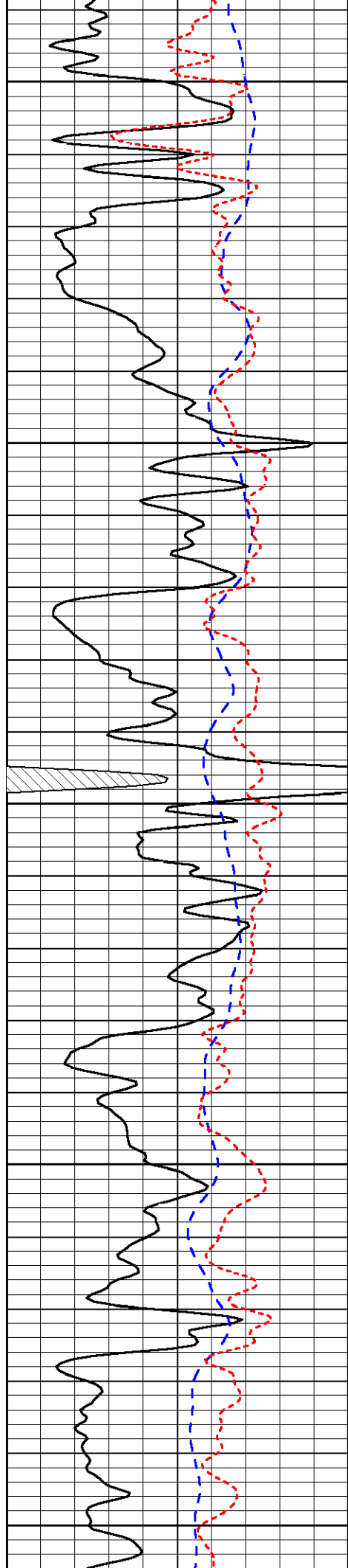


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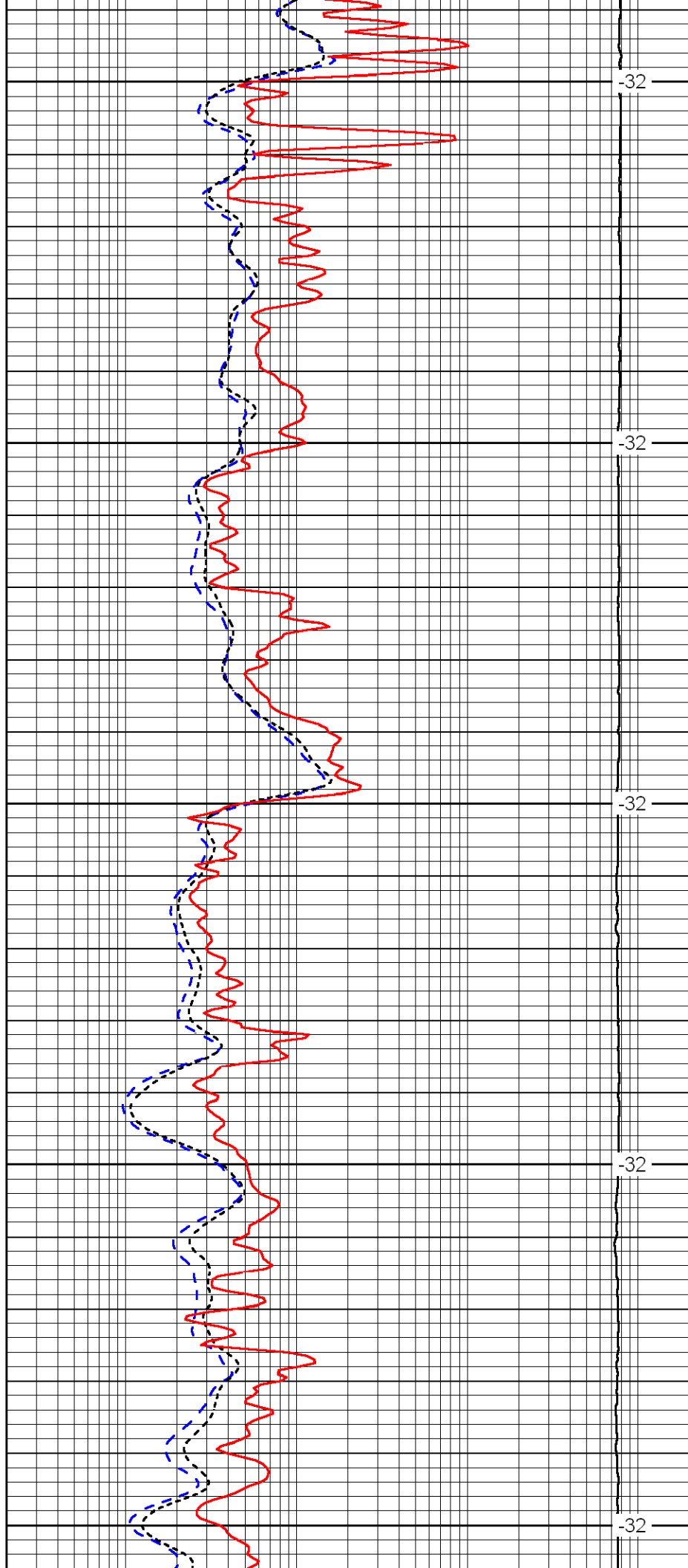
1950

2000

2050

2100

2150



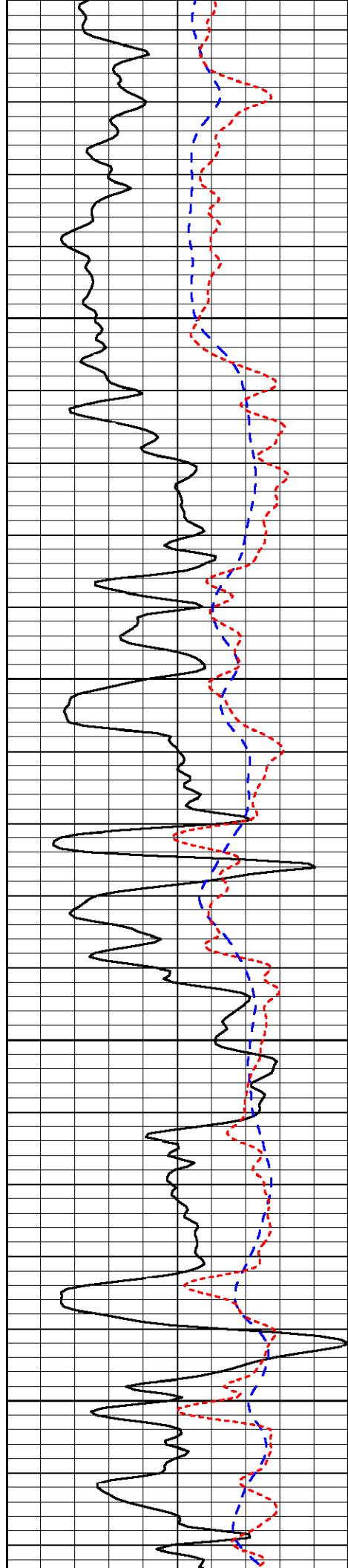
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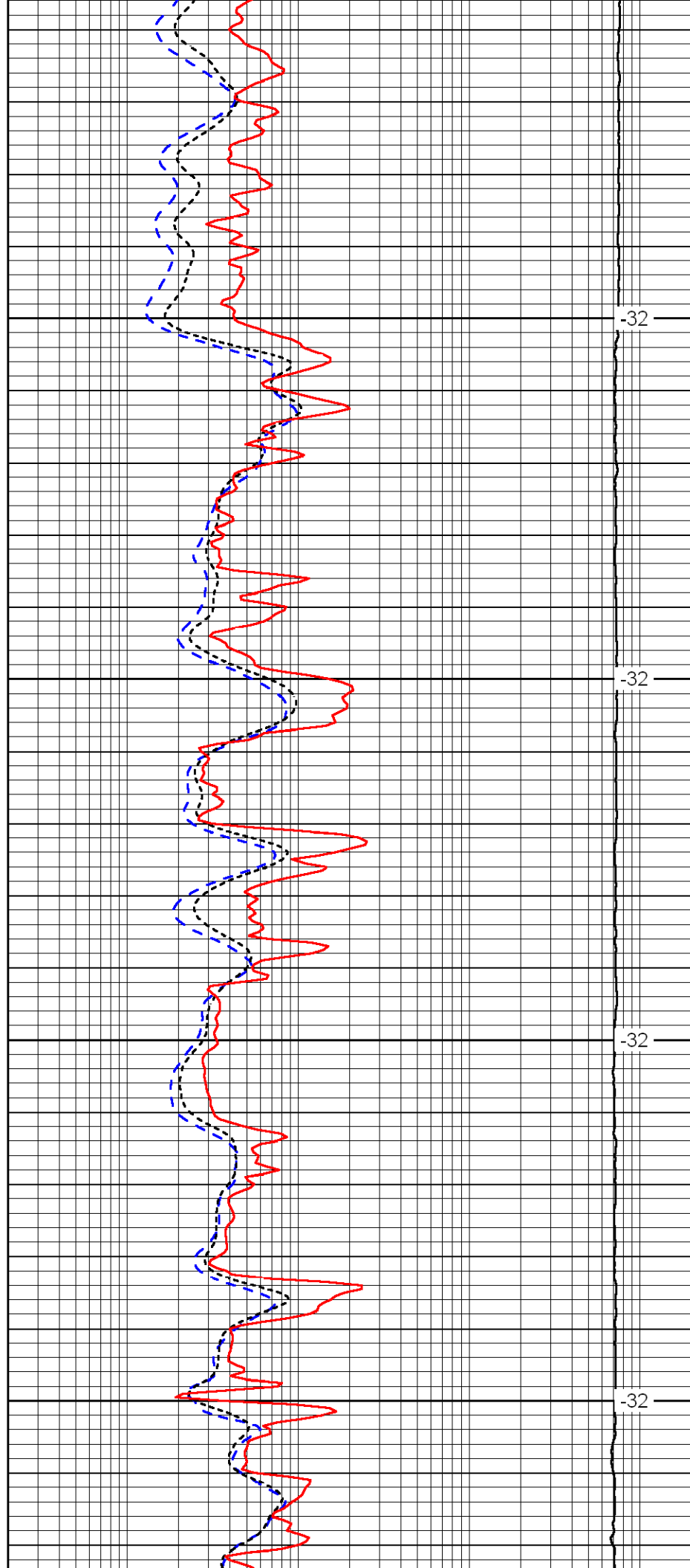


2200

2250

2300

2350

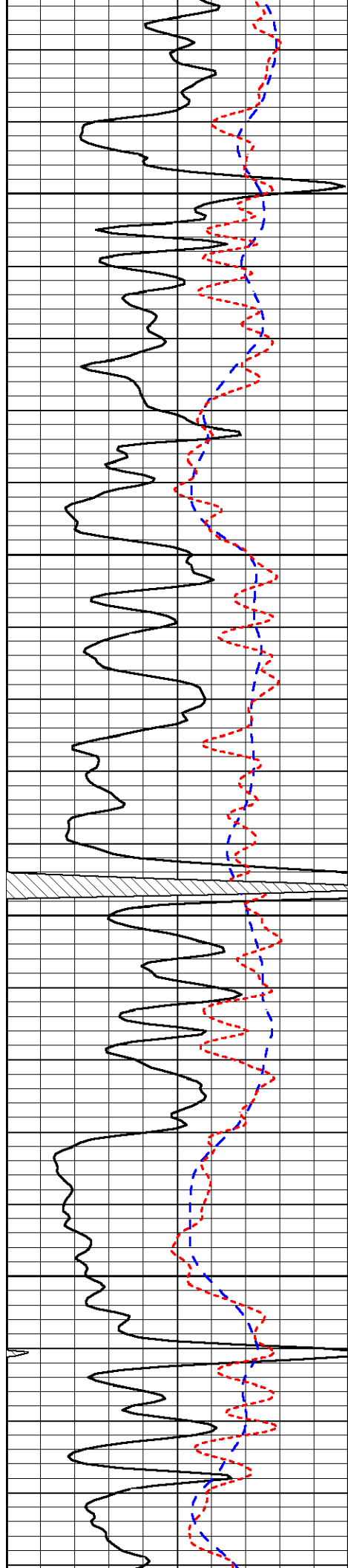


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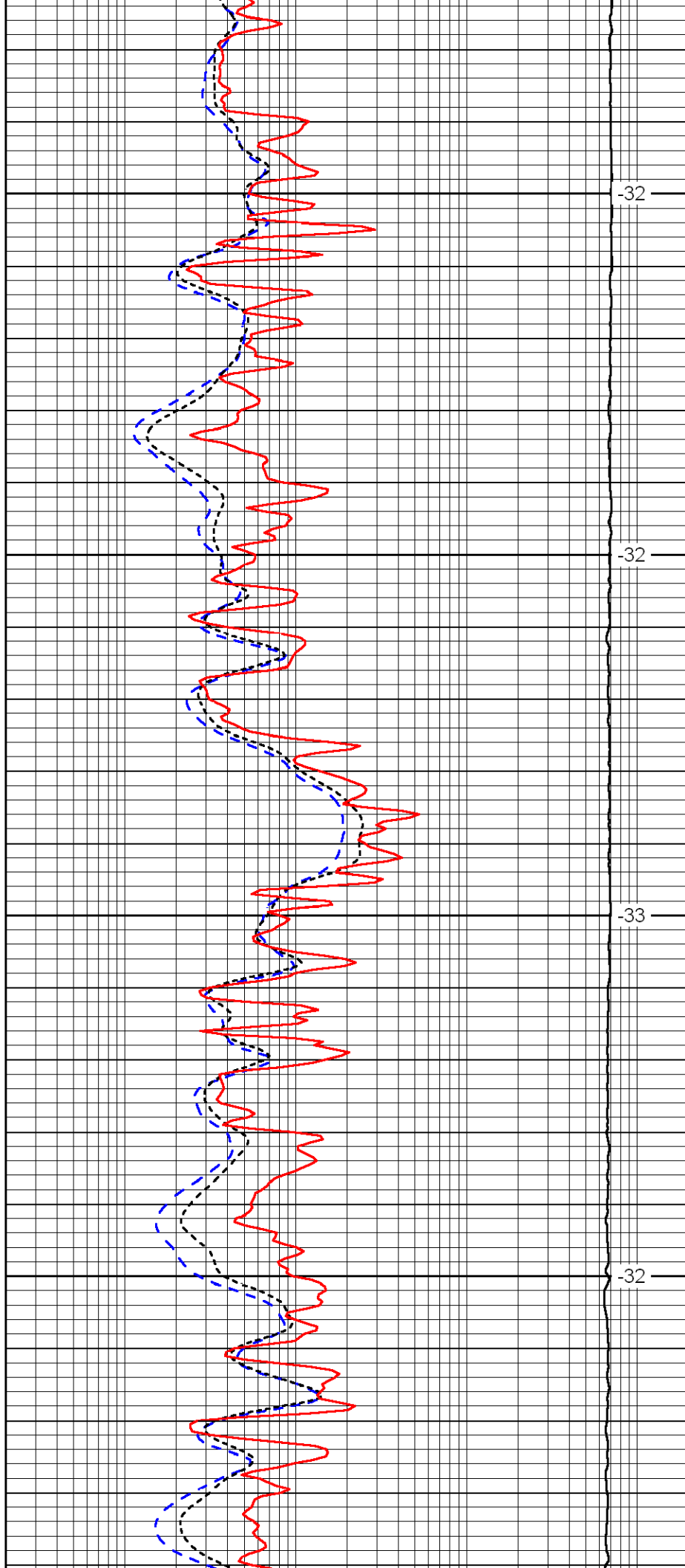


2400

2450

2500

2550

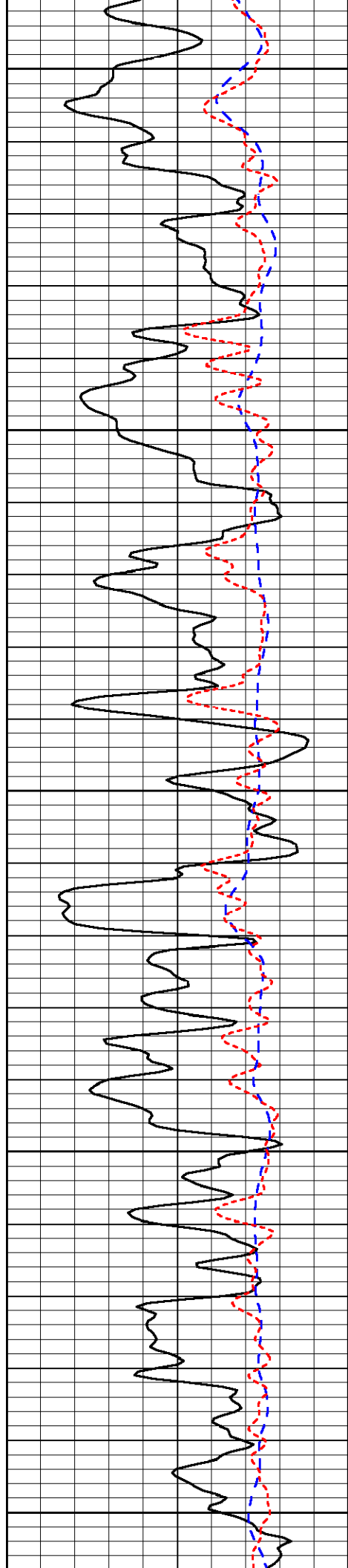


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-33

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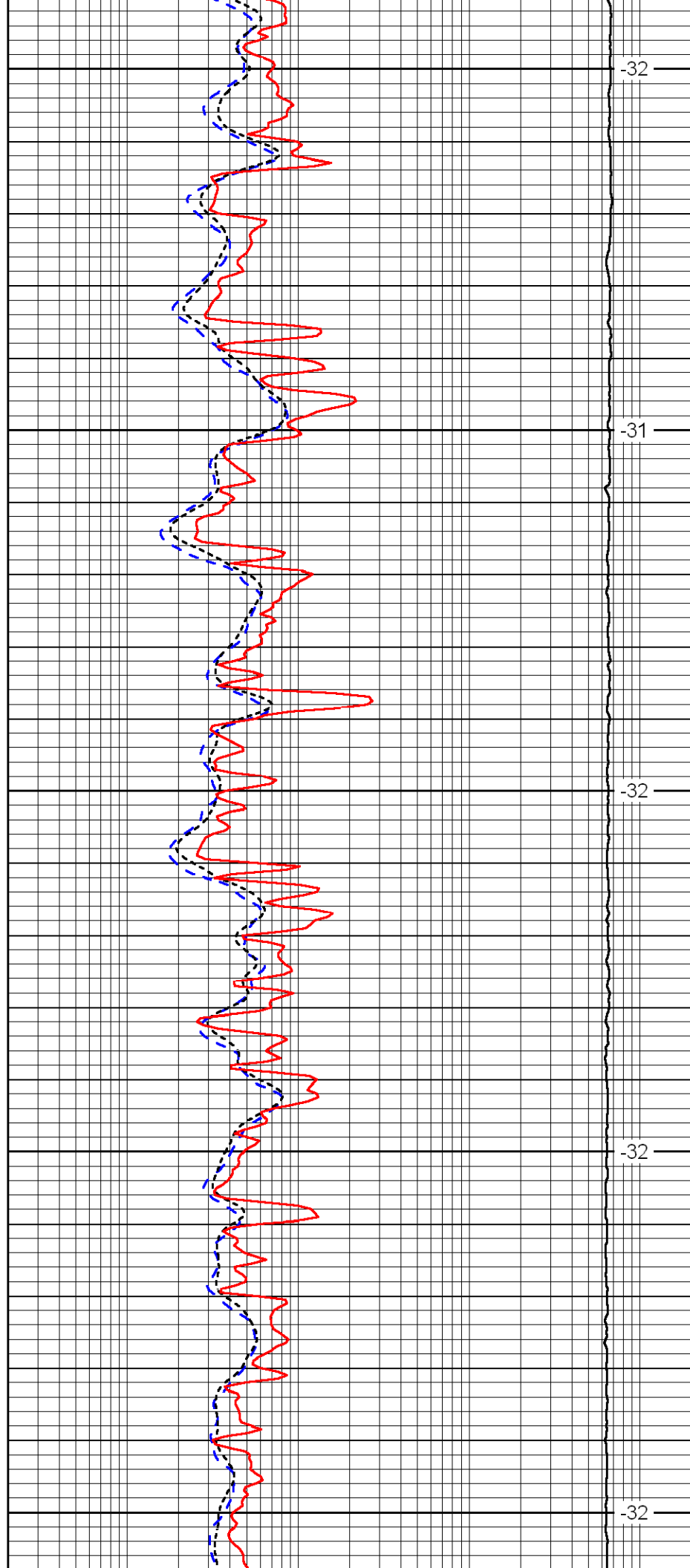
2600

2650

2700

2750

2800



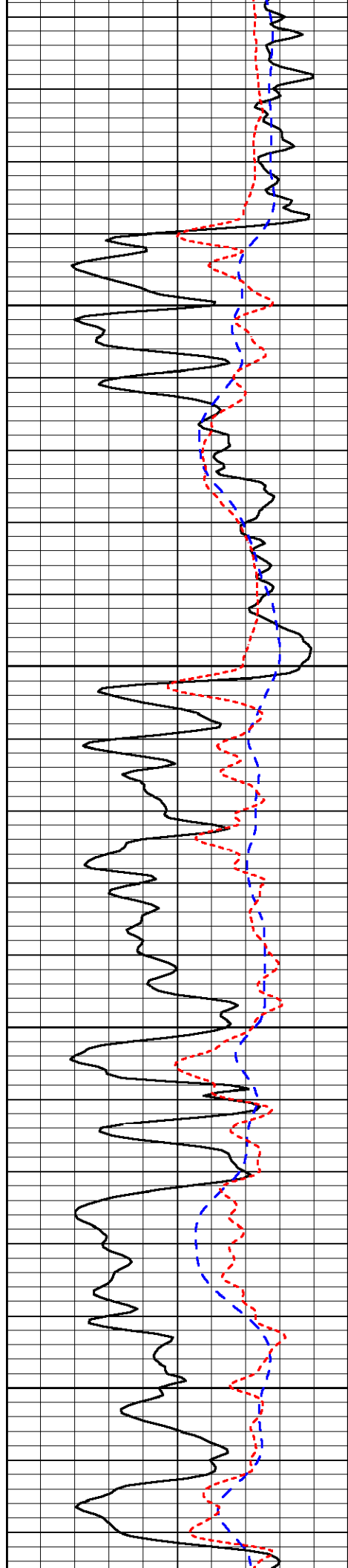
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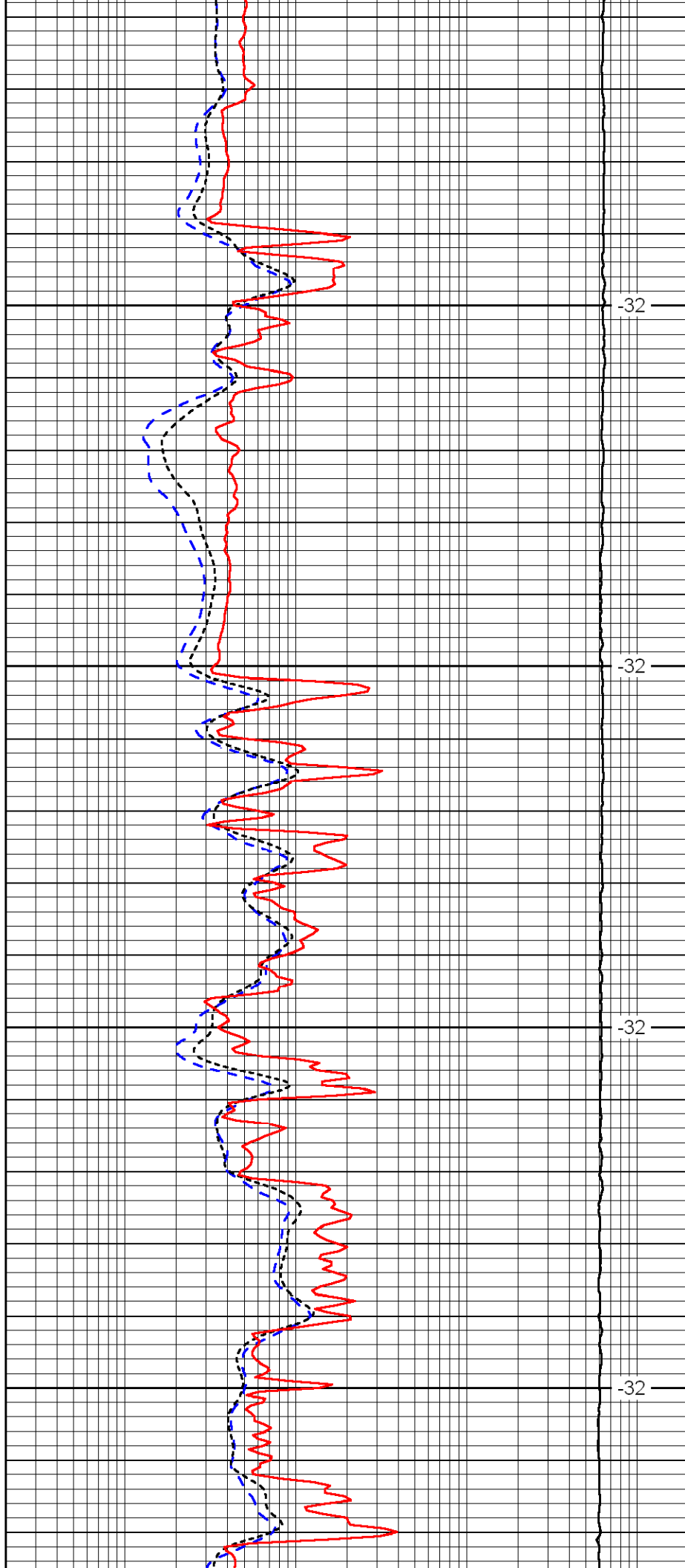


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2900

2950

3000

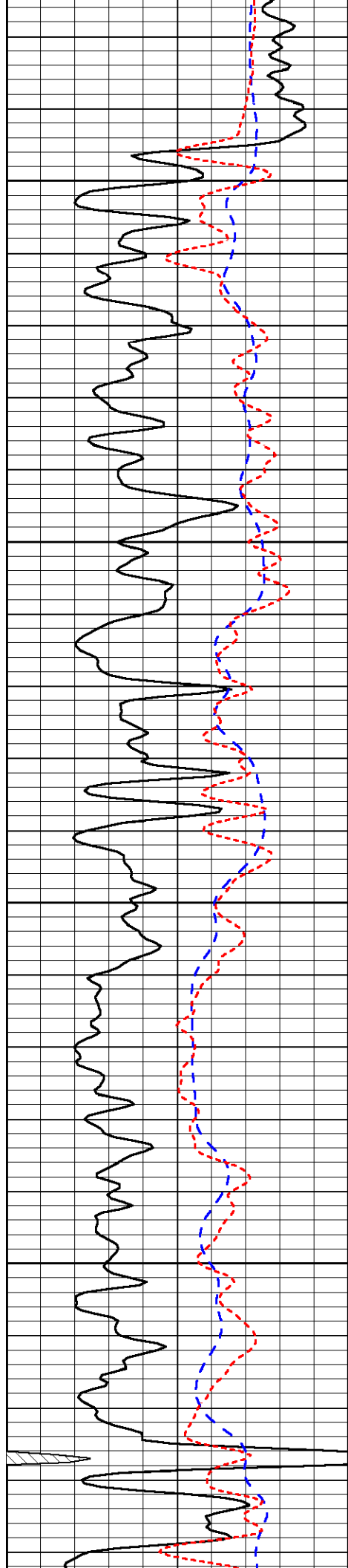


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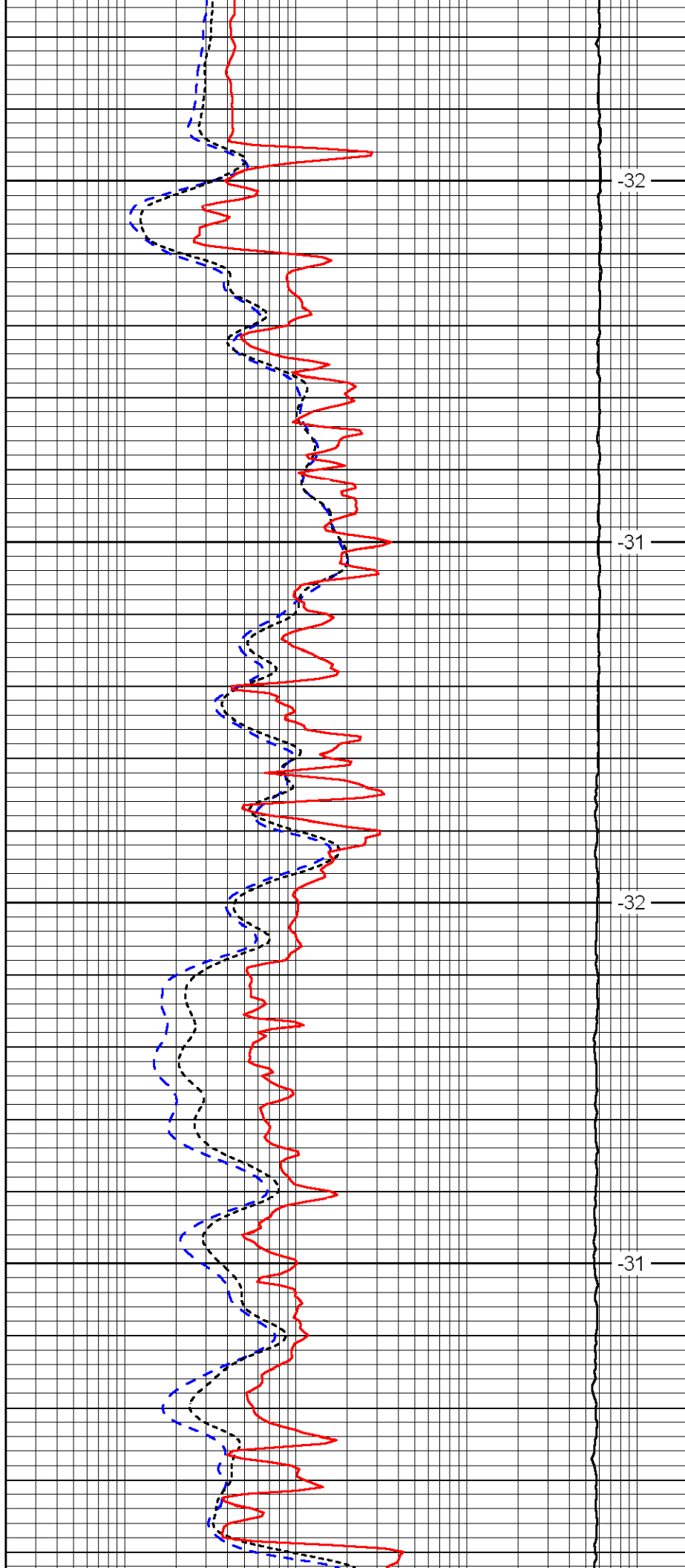


3050

3100

3150

3200

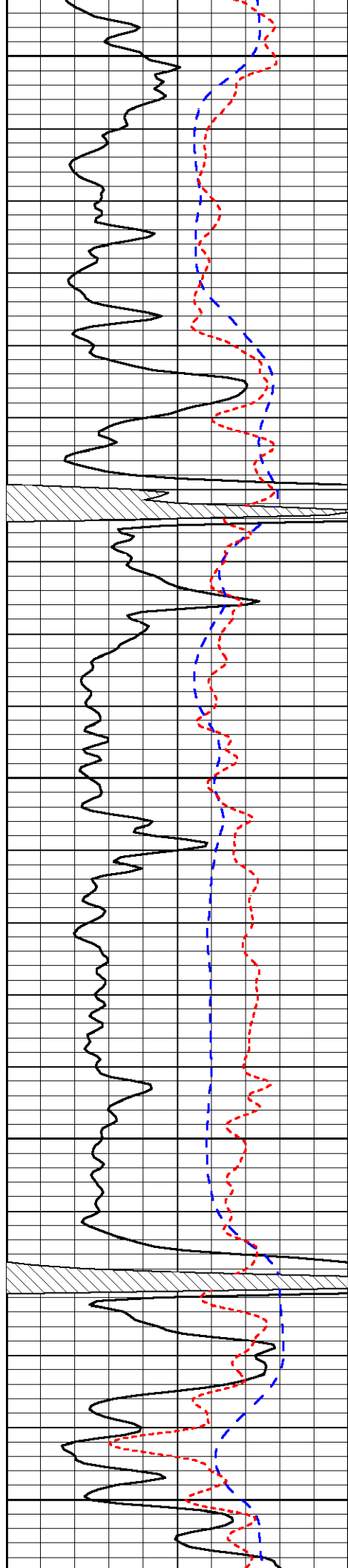


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-31

-32

-31



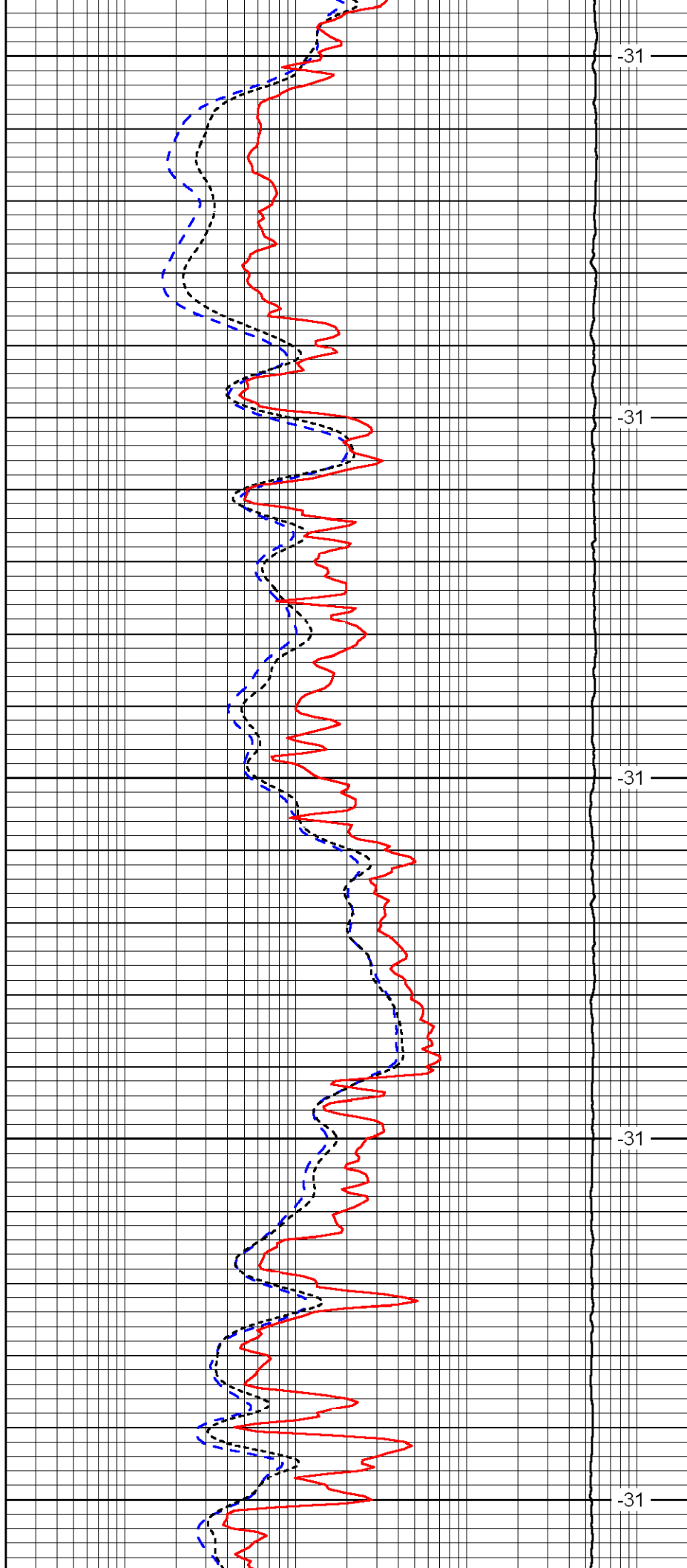
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3300

3350

3400

3450



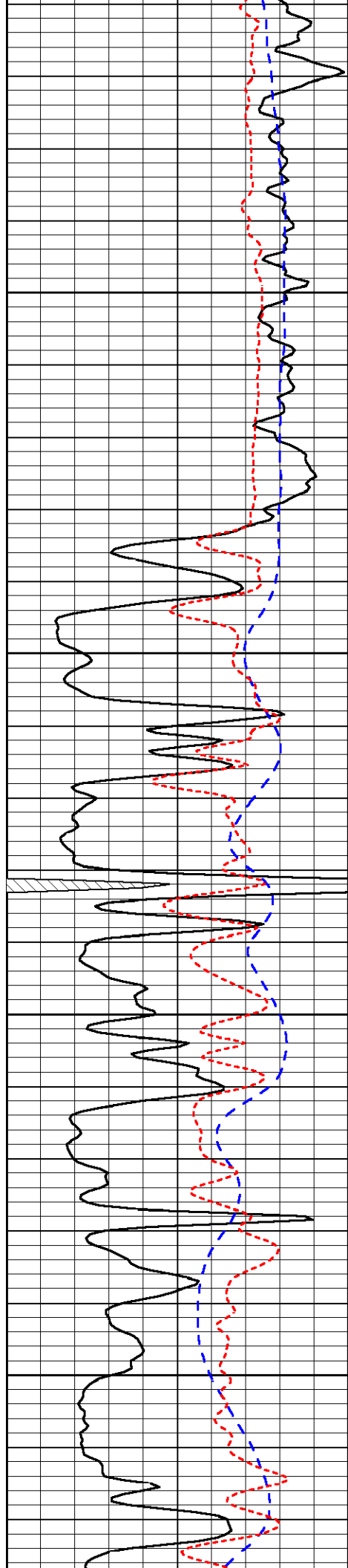
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-31

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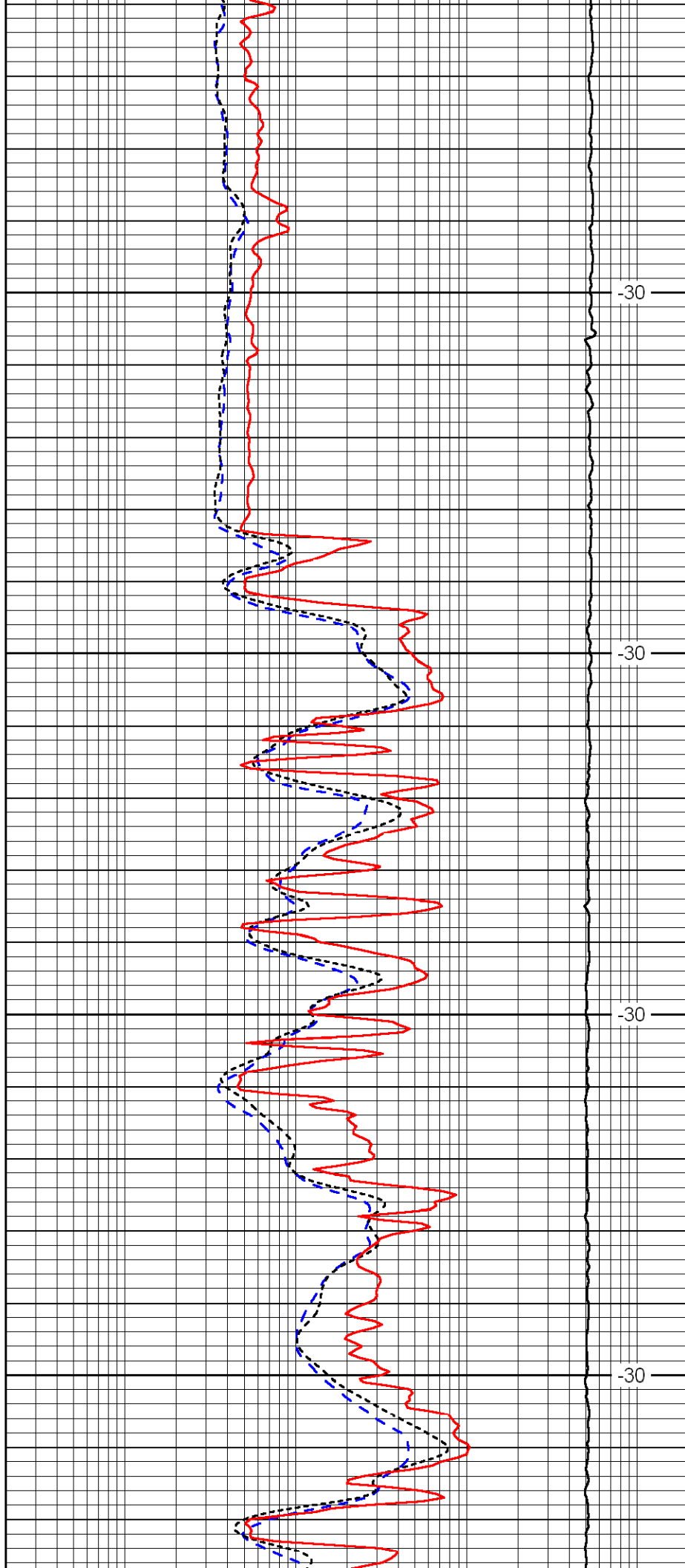


3500

3550

3600

3650

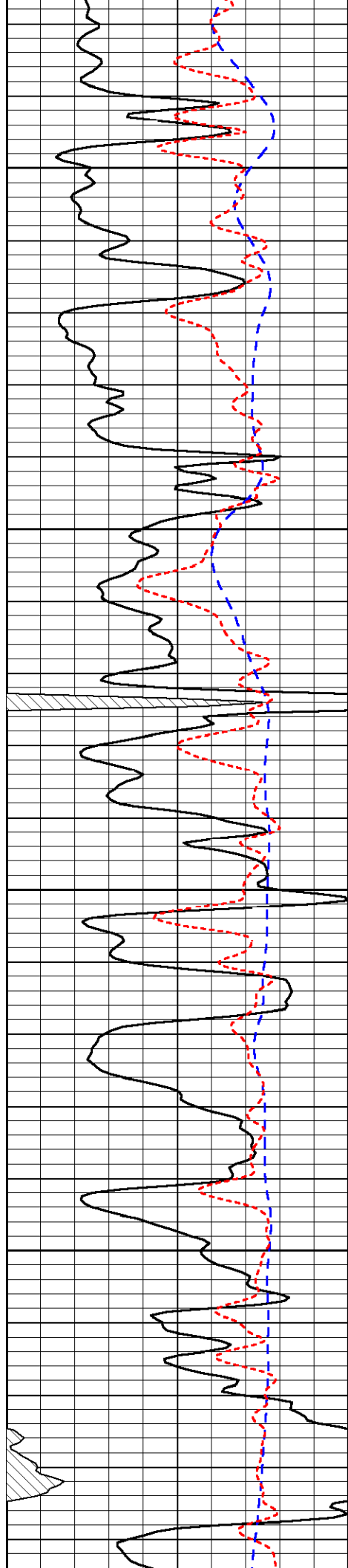


-30

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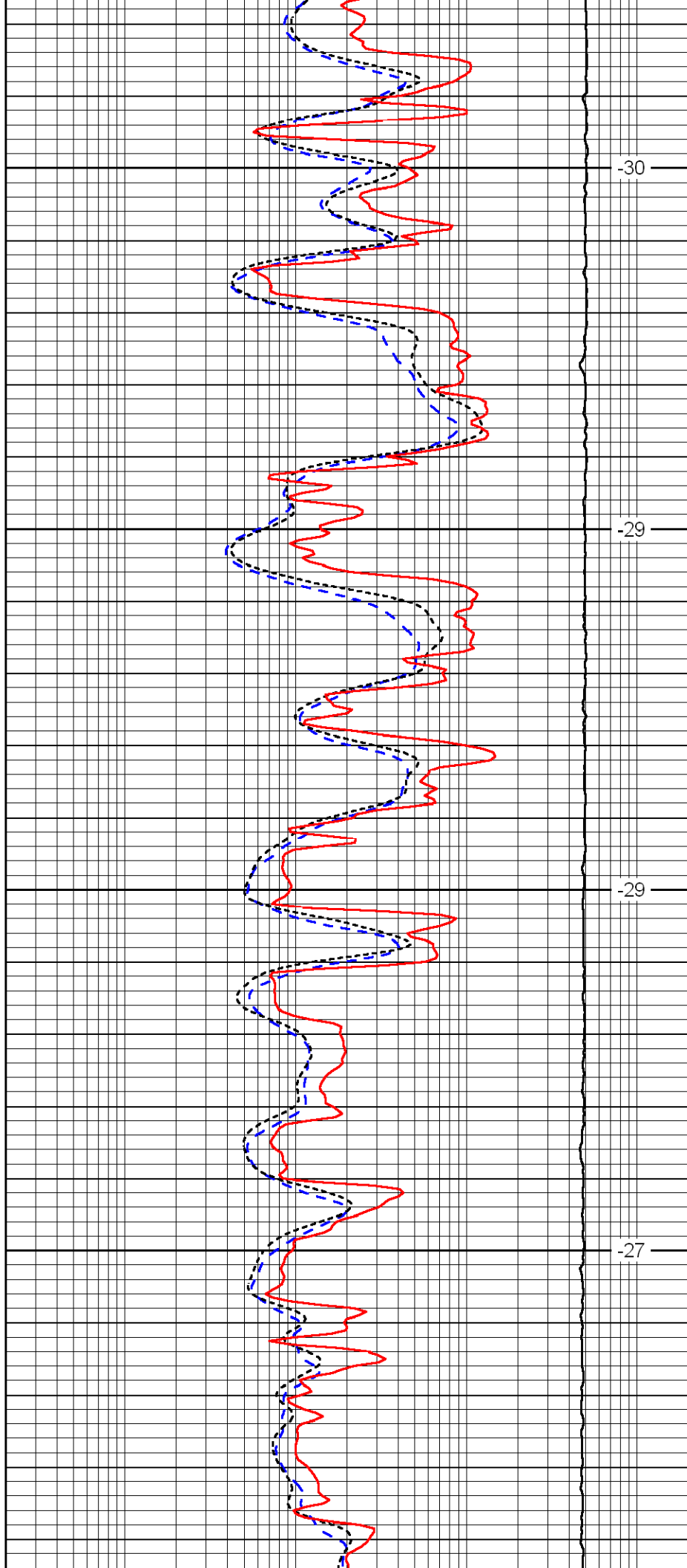


3700

3750

3800

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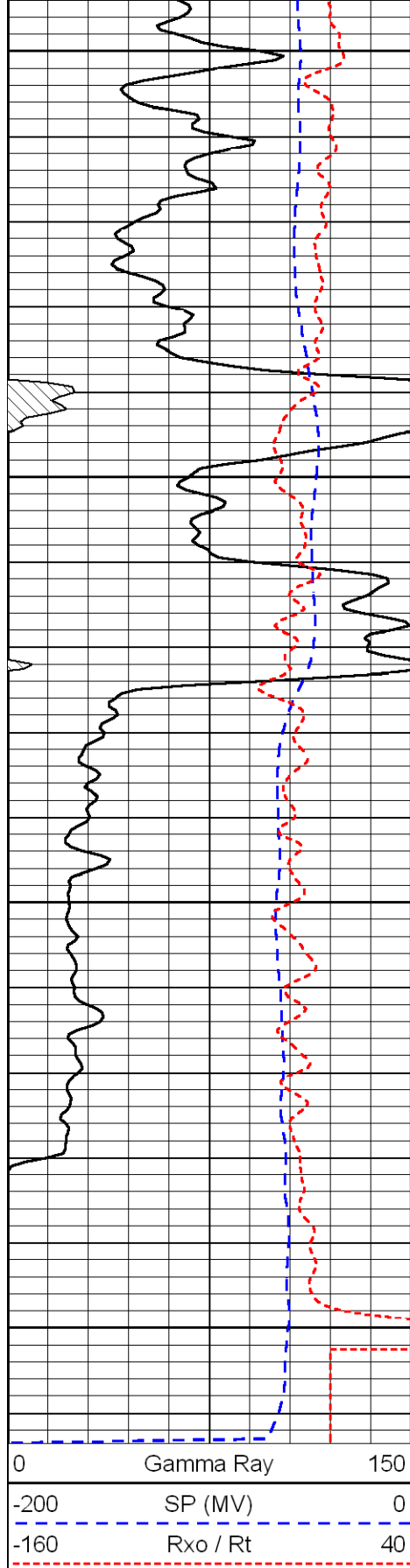


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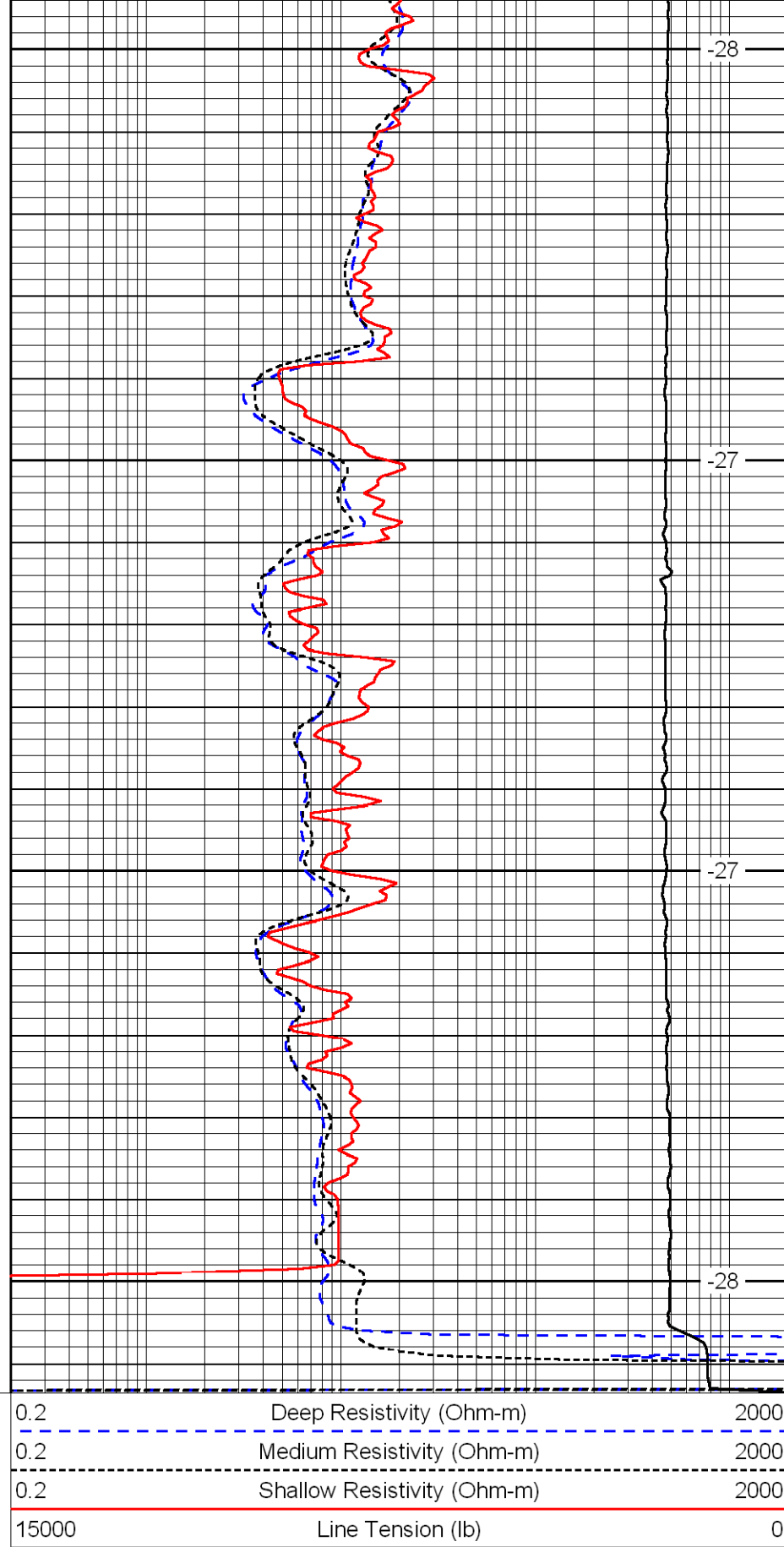


3900

3950

4000

4050



-28

-27

-27

-28

LSPD
(ft/min)