



Dual Induction Log

DIGITAL LOG (785) 625-3858

15-051-25947-00-00

API No.	Company Murfin Drilling Company, Inc.		Other Services CNL/CDL MEL/BHCS
	Well Haselhorst No. 1-4	Elevation 2229	
	Field Stadelman		
	County Ellis	State Kansas	
	Location 1650' FSL & 1080' FEL		
	Sec: 4	Twp: 14 S	Rge: 19 W
Permanent Datum	Ground Level	Elevation 2229	
Log Measured From	Kelly Bushing	5 Ft. Above Perm. Datum	
Drilling Measured From	Kelly Bushing		
Date	1/15/2010		

Run Number	One
Depth Driller	3960
Depth Logger	3962
Bottom Logged Interval	3961
Top Log Interval	0
Casing Driller	8.625 @ 218
Casing Logger	216
Bit Size	7.875
Type Fluid in Hole	Chemical
Salinity, ppm CL	8,900
Density / Viscosity	9.1 57
pH / Fluid Loss	11.5 6.8
Source of Sample	Flowline
Rm @ Meas. Temp	1.40 @ 70
Rmf @ Meas. Temp	1.05 @ 70
Rmc @ Meas. Temp	1.89 @ 70
Source of Rmf / Rmc	Charts
Rm @ BHT	0.85 @ 116
Operating Rig Time	5 Hours
Max Rec. Temp. F	116
Equipment Number	15
Location	Hays
Recorded By	B. Becker
Witnessed By	Paul Gunzelman

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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

Hays, Ks; West on Golf Course Rd to Yocemento Rd;
1/2 North; West Into Location

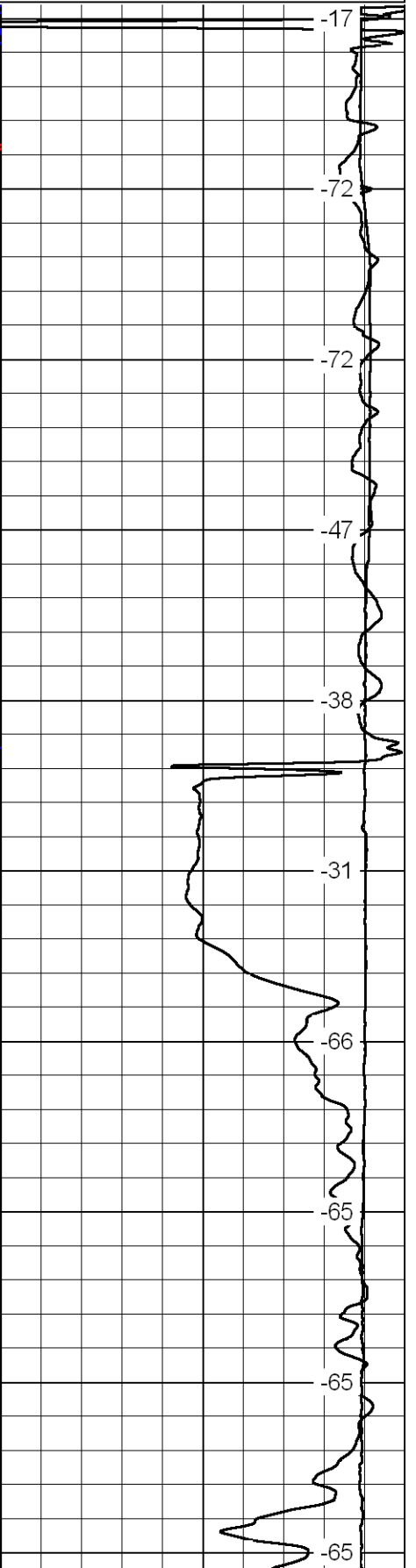
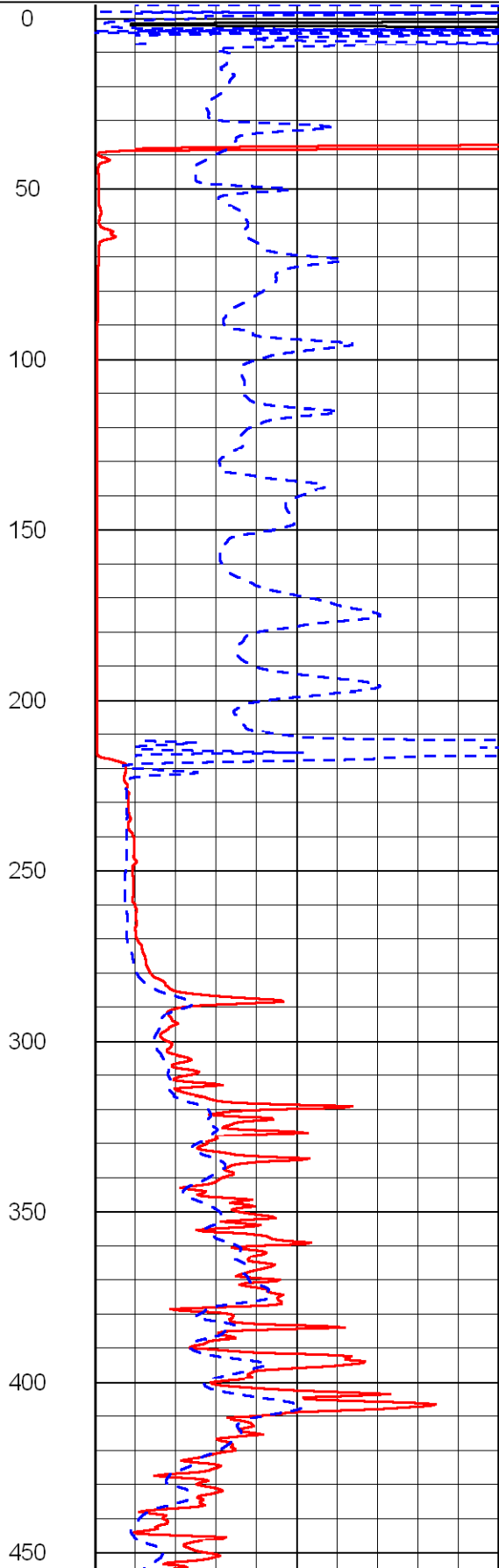
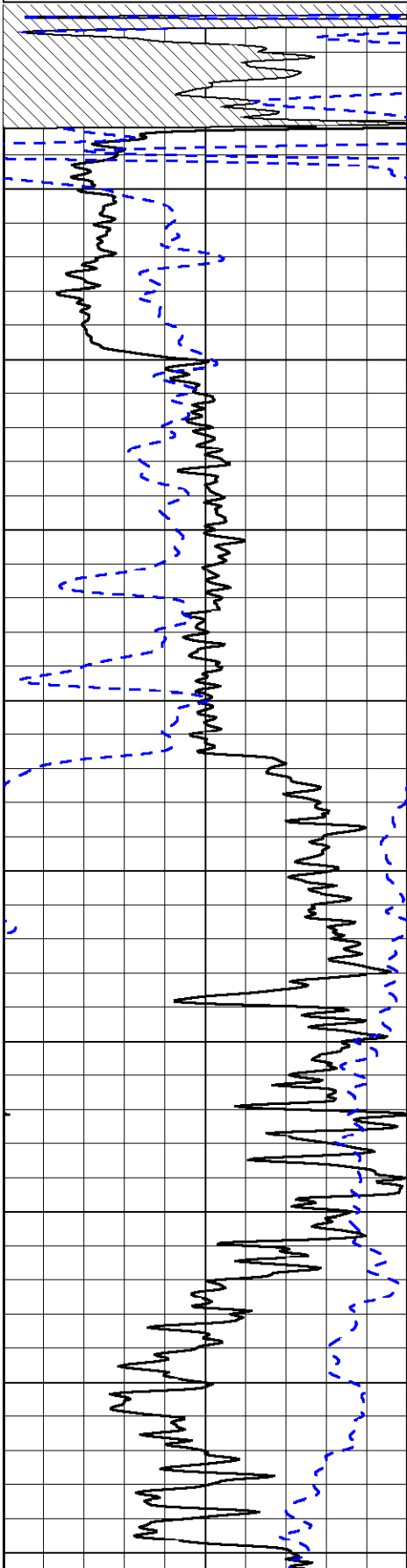
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 Dataset Creation: Fri Jan 15 17:40:40 2010
 Charted by: Depth in Feet scaled 1:600

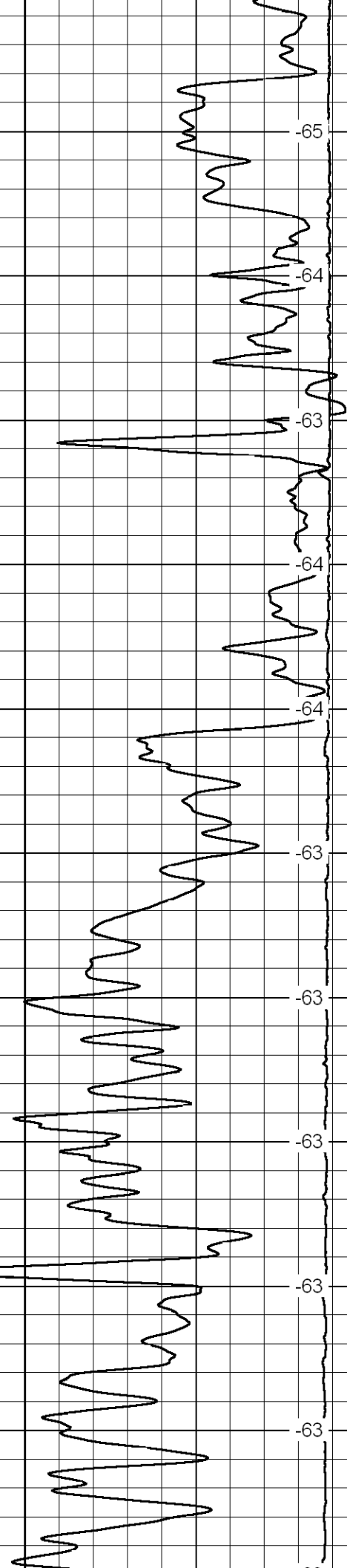
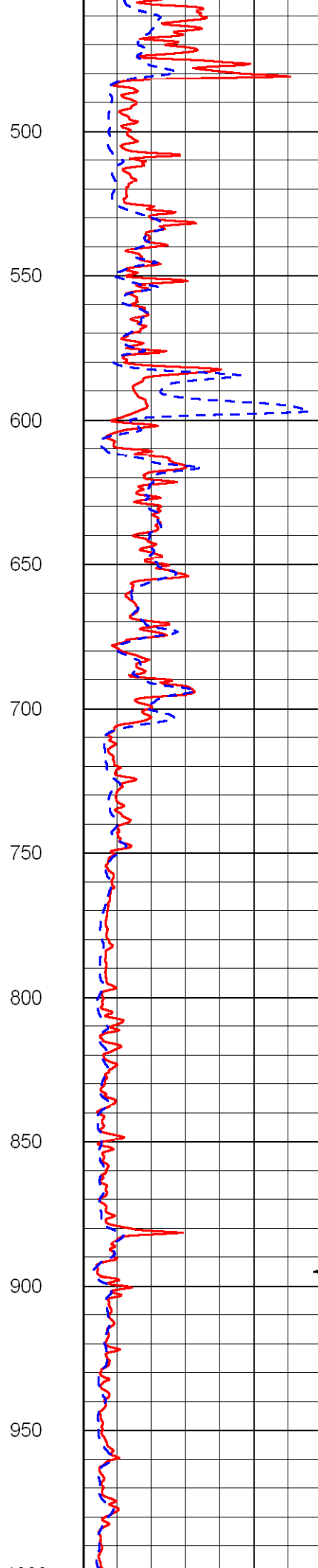
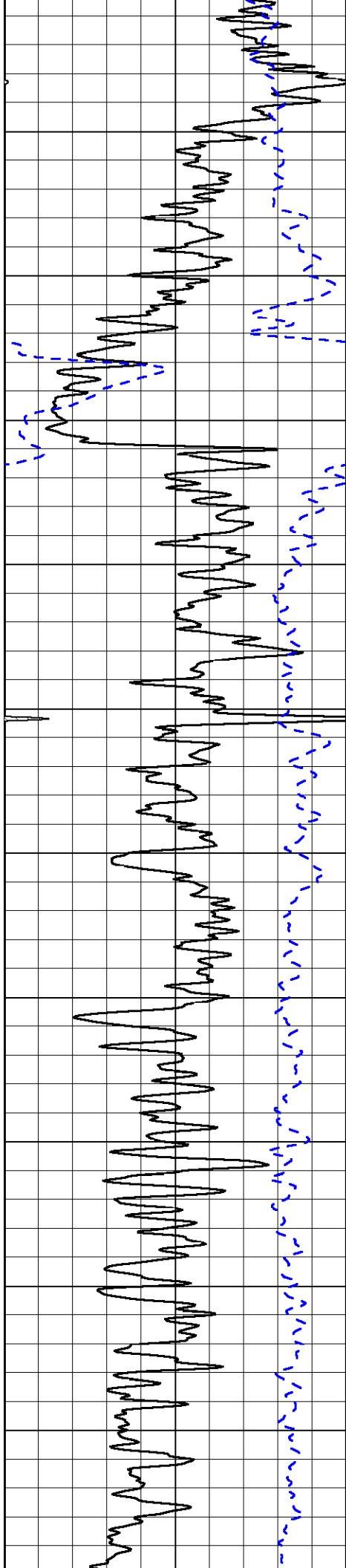
0 Gamma Ray 150
-200 SP (MV) 0

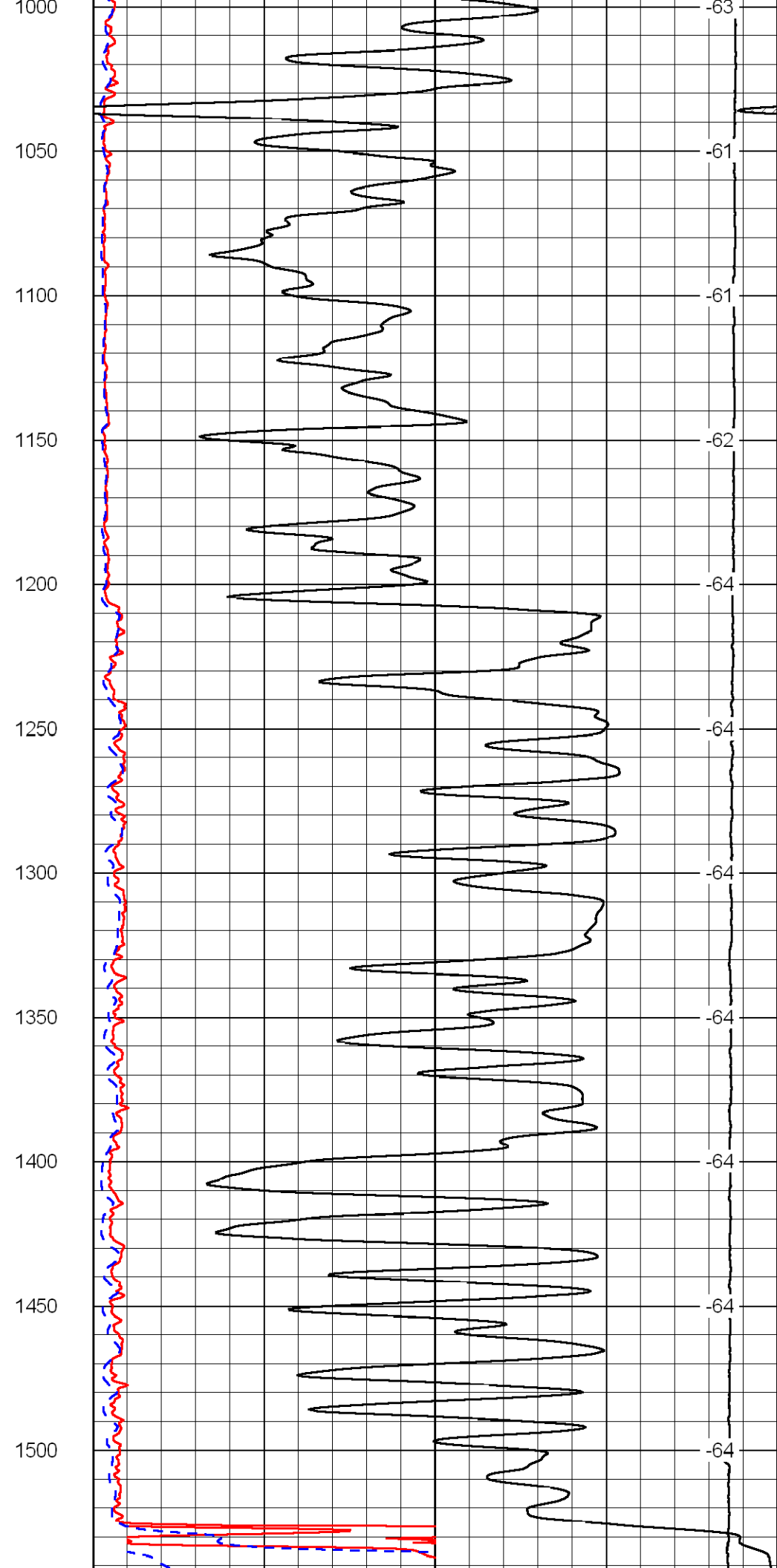
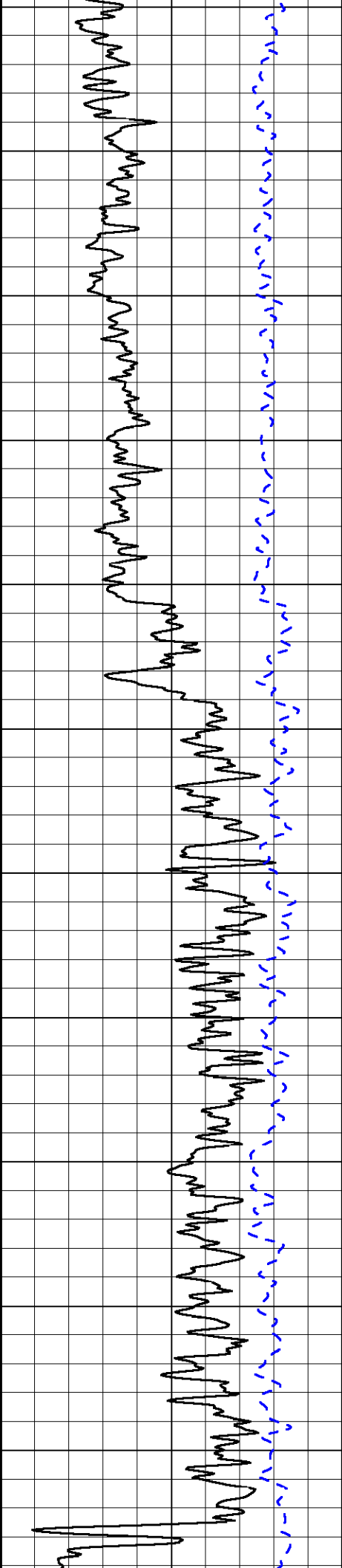
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0 Deep Resistivity (Ohm-m) 50
1000 Conductivity (mmho/m) 0
15000 Line Tension (lb) 0

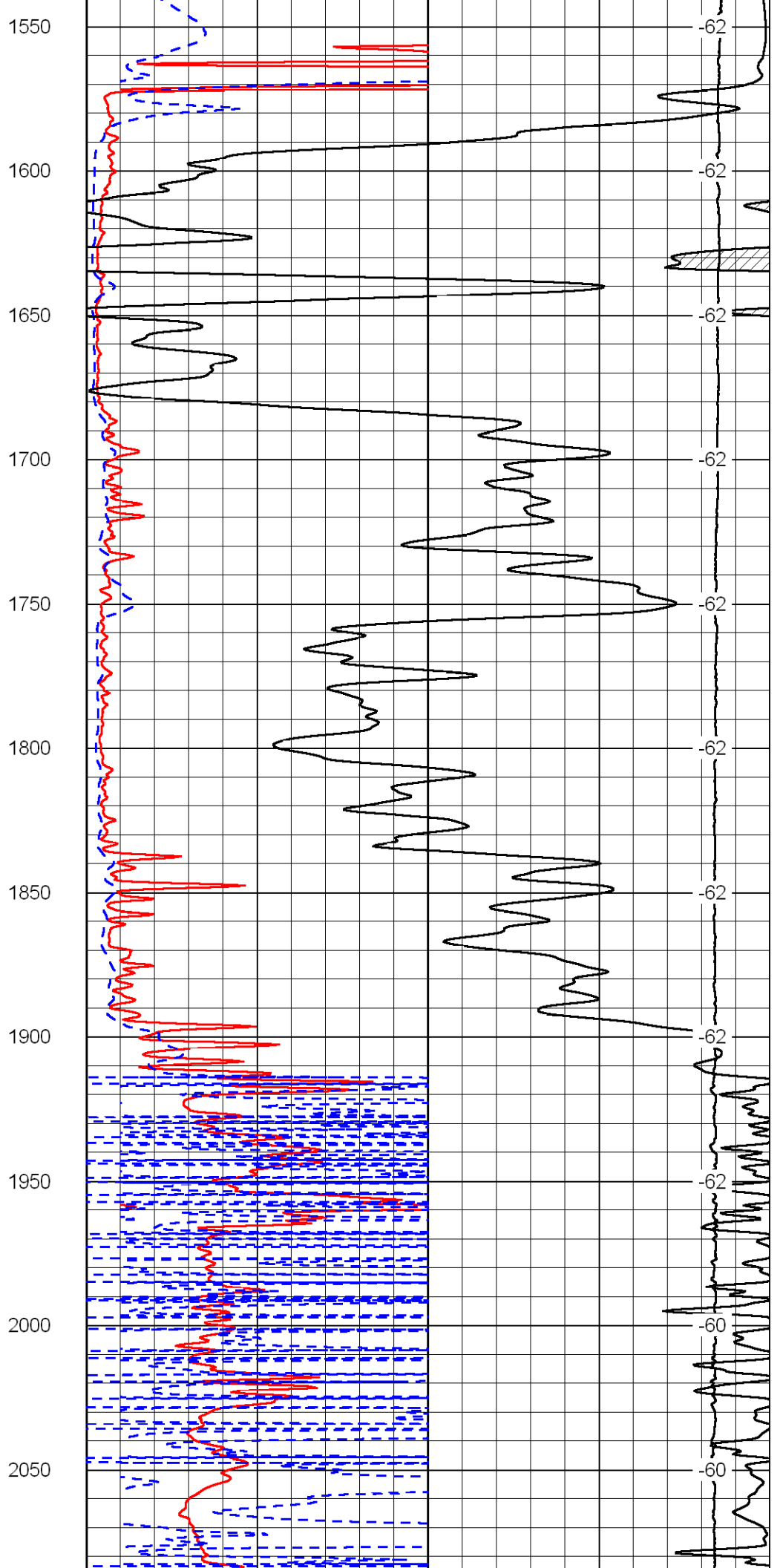
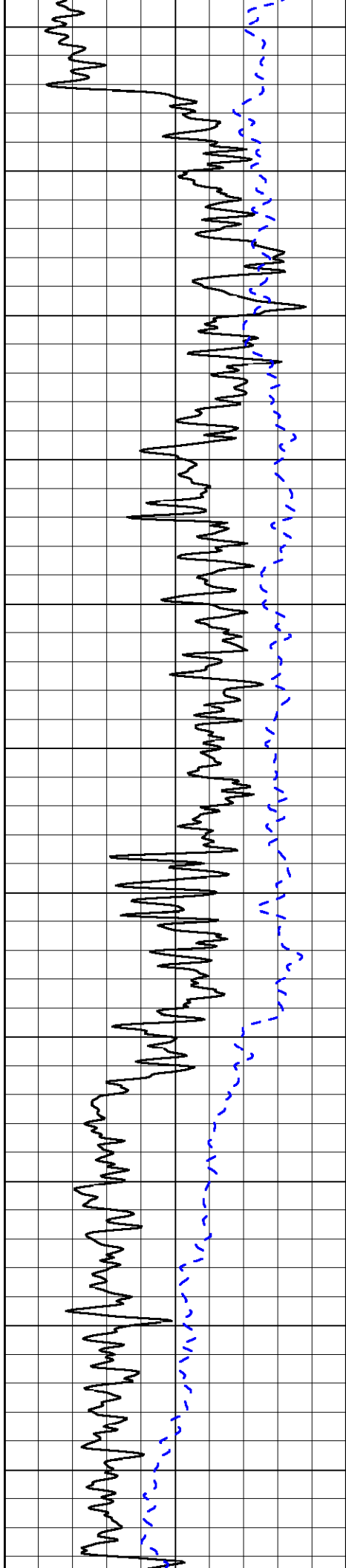
LSPD
(ft/min)

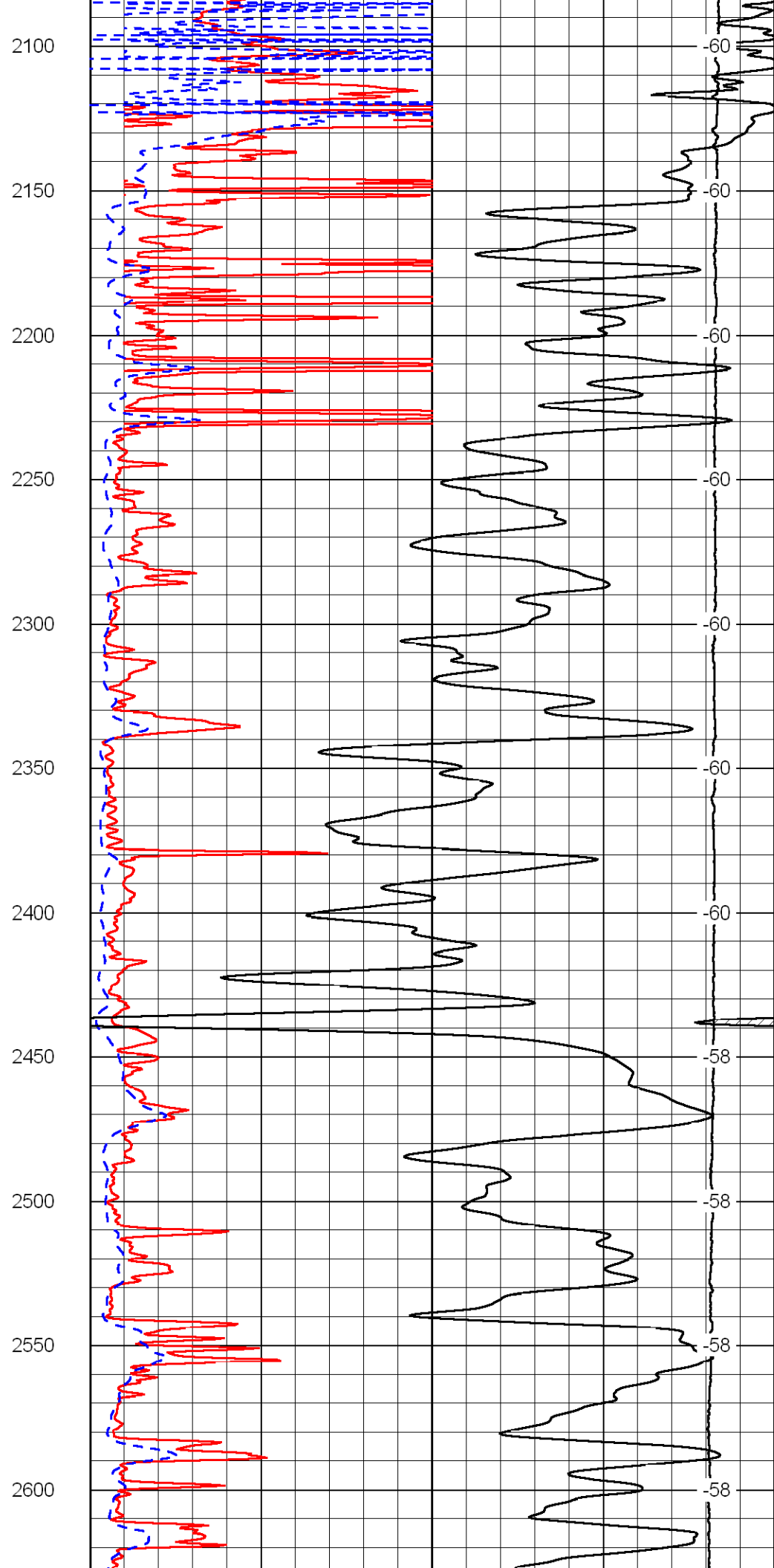
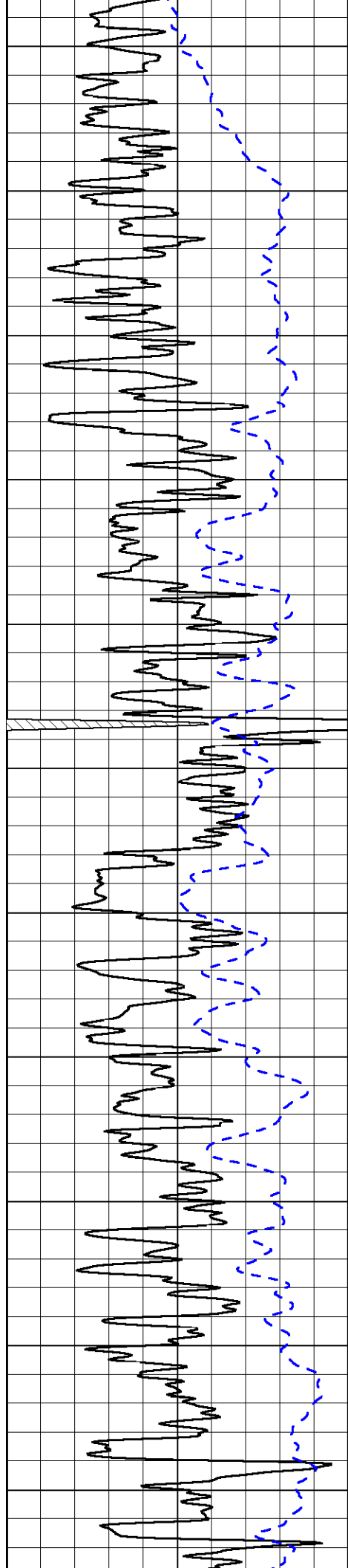
Shallow Resistivity
50 (Ohm-m) 500
50 Deep Resistivity (Ohm-m) 500

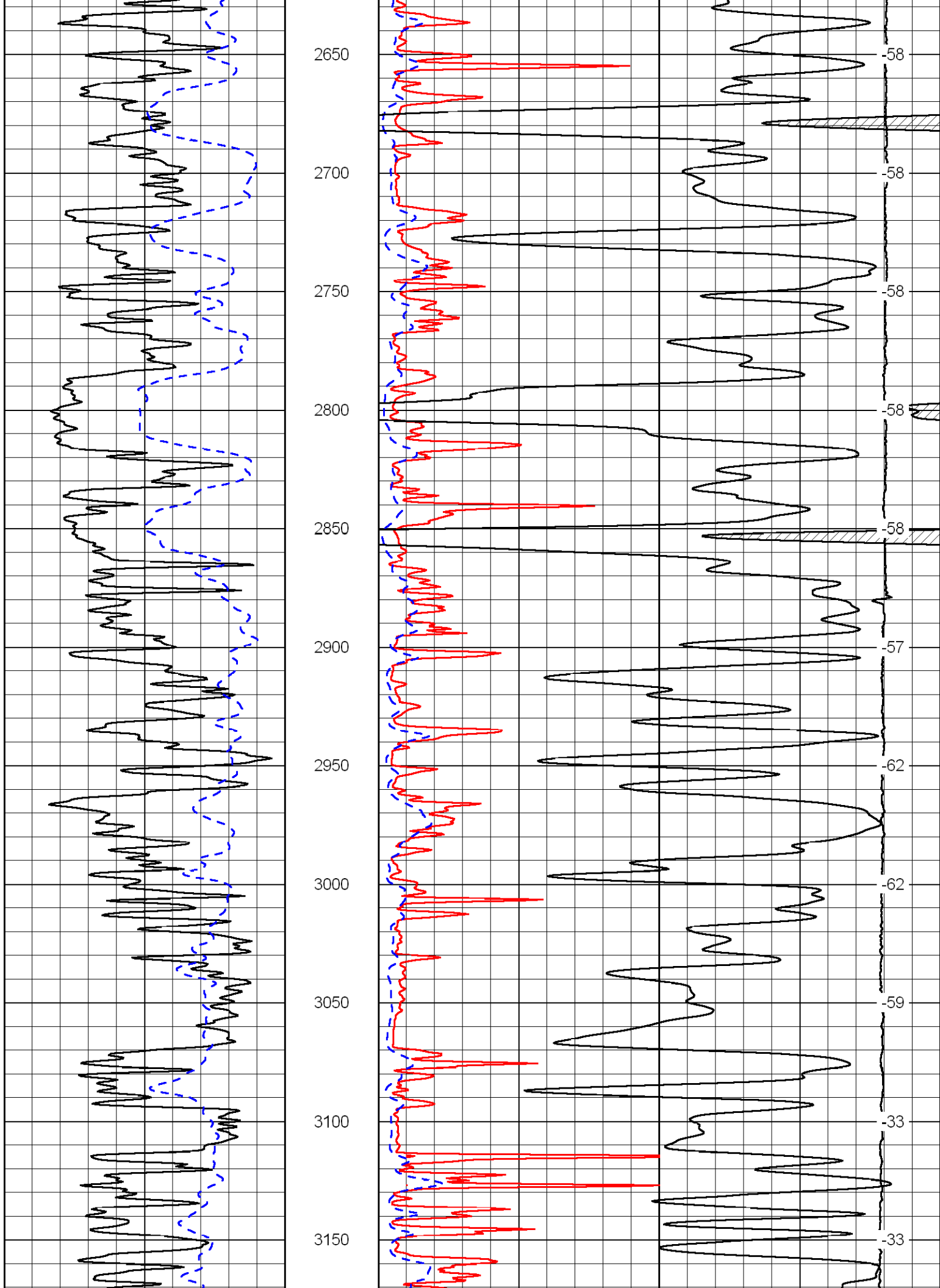


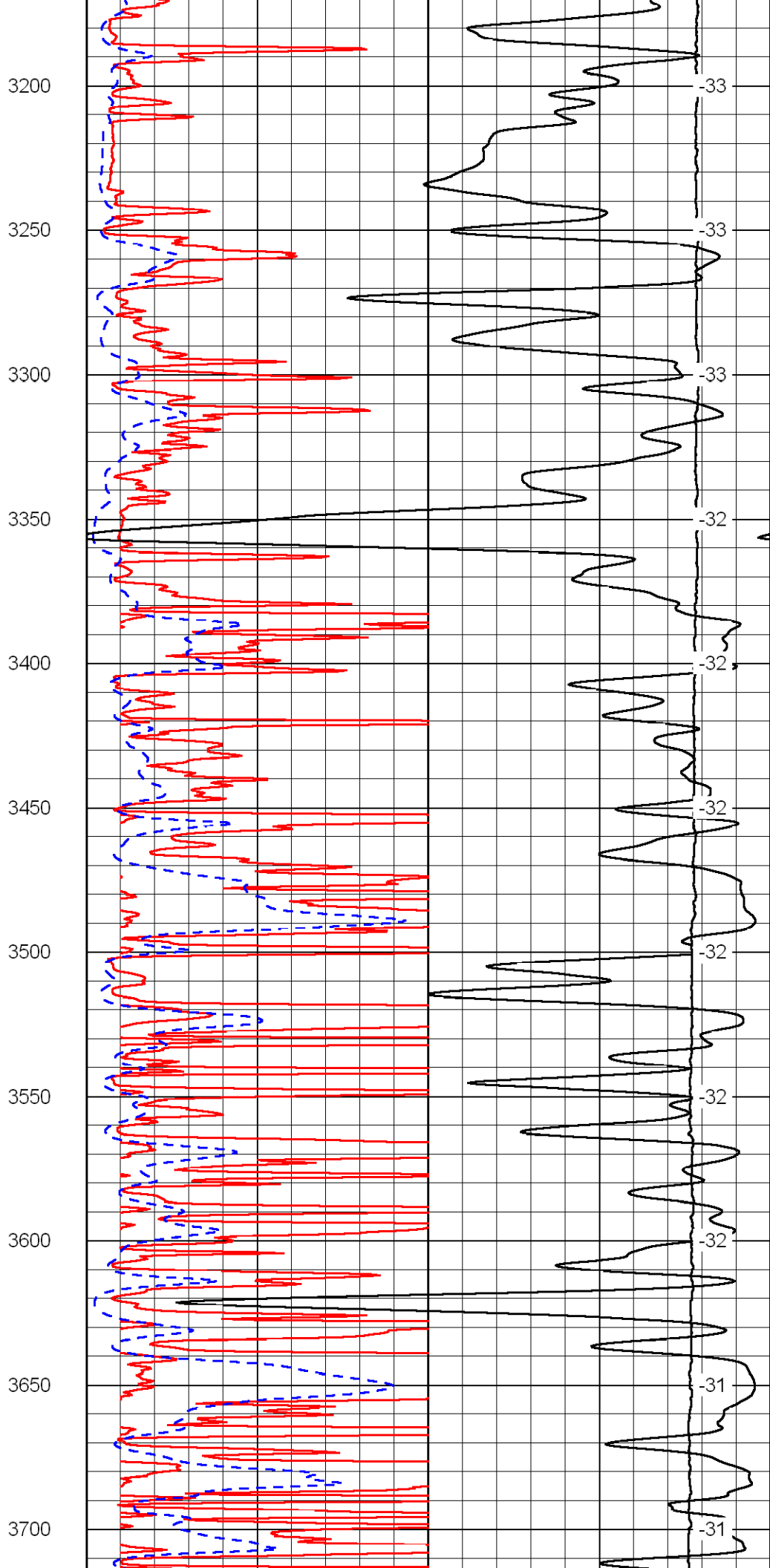
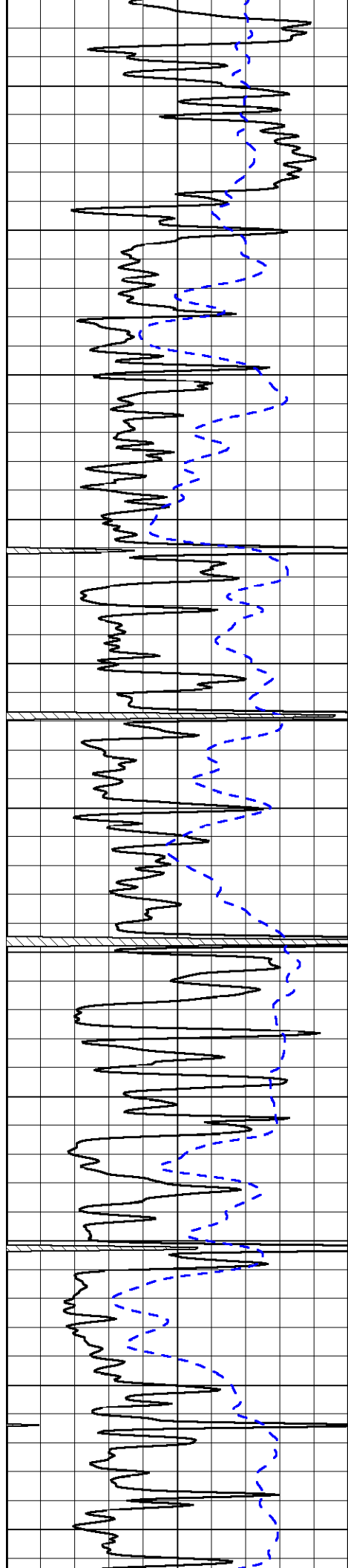


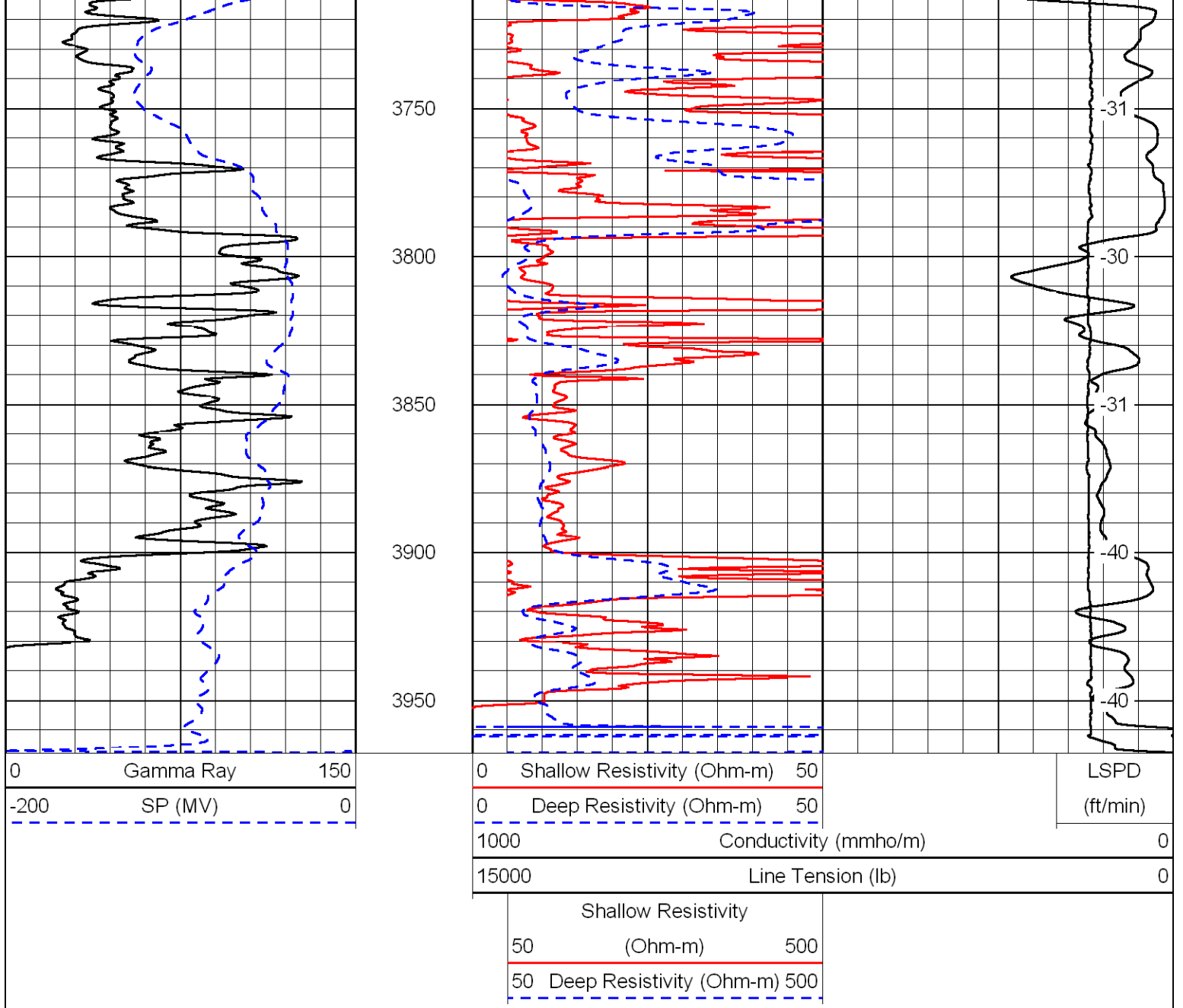




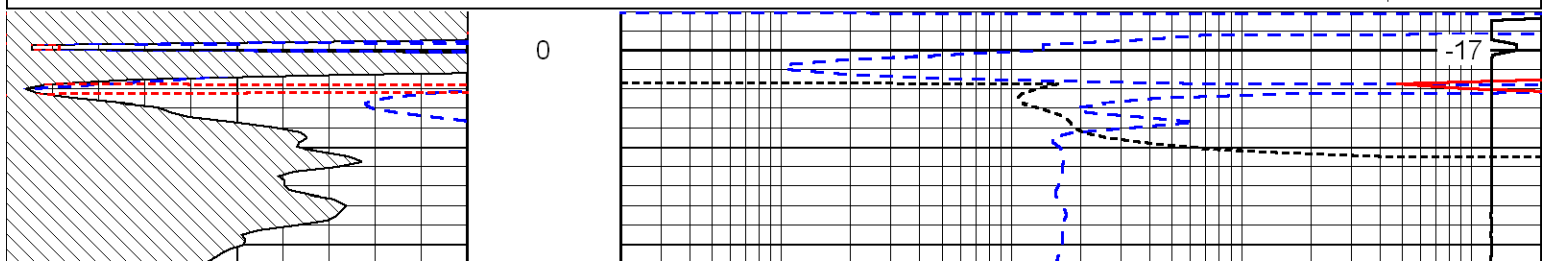
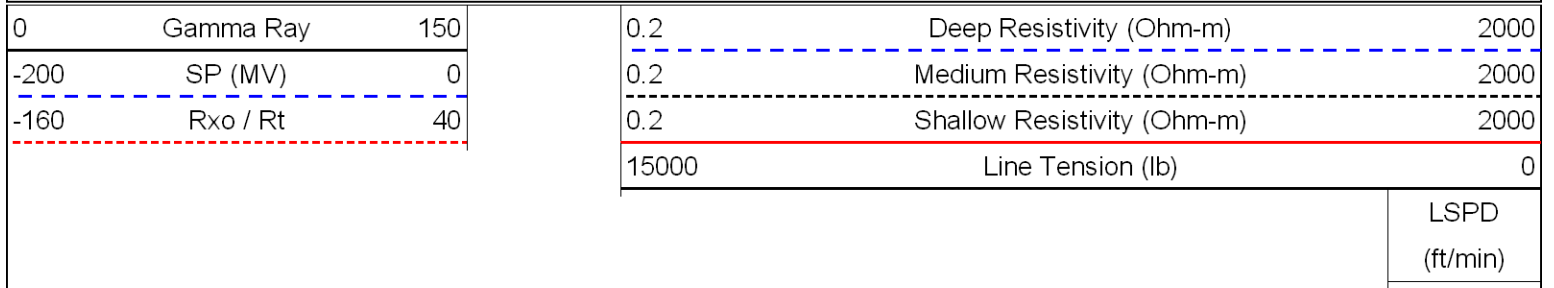


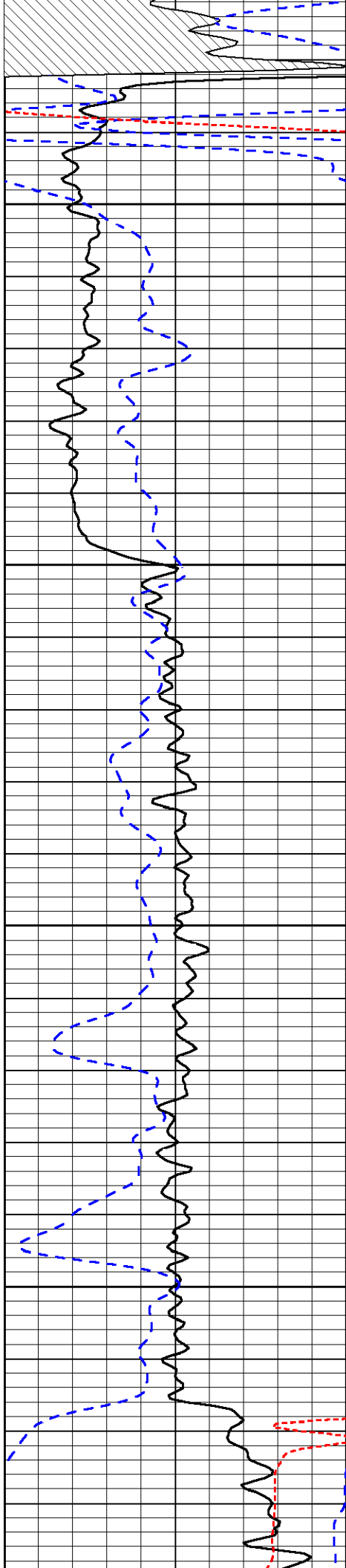






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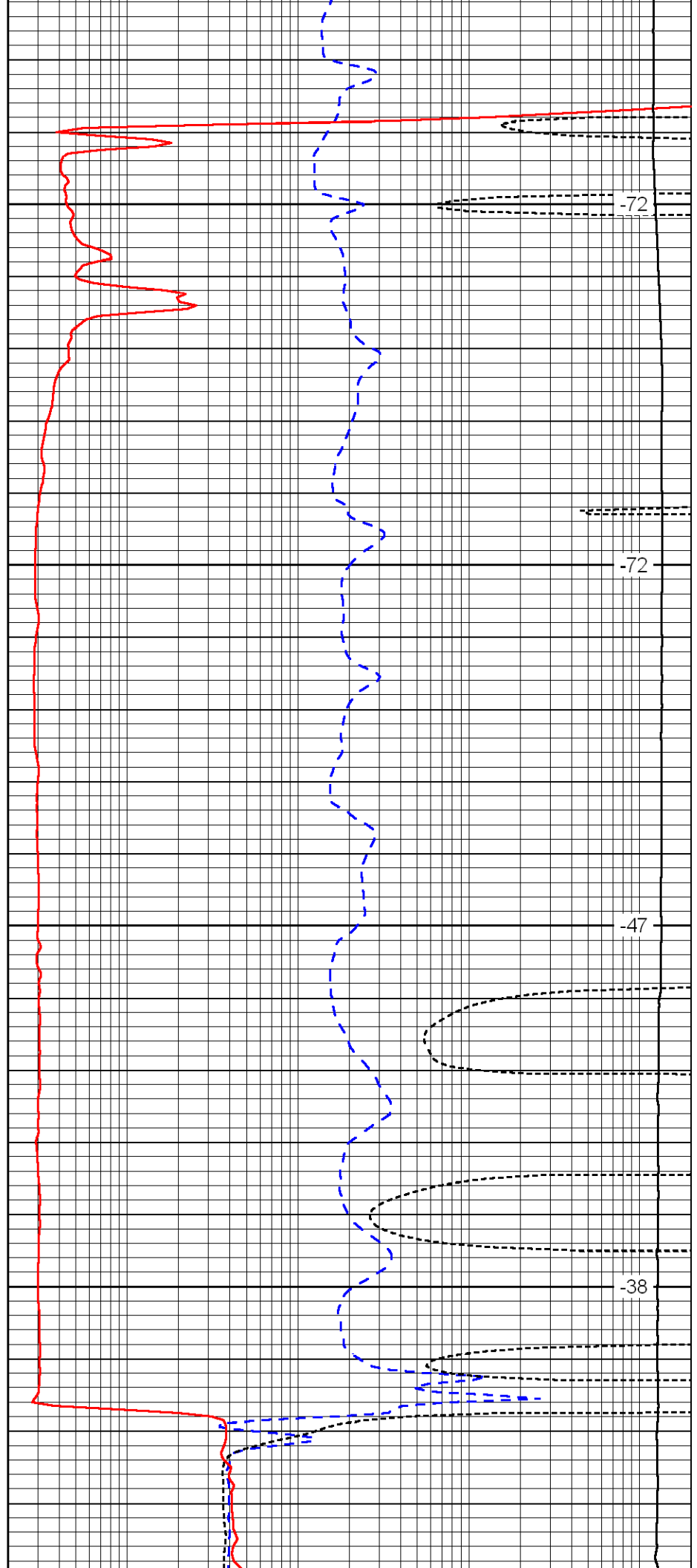


50

100

150

200

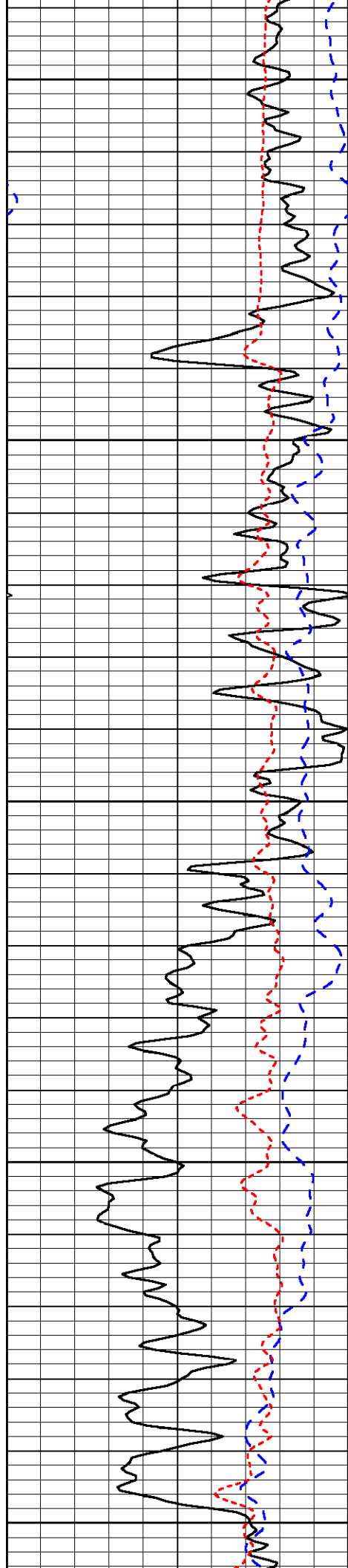


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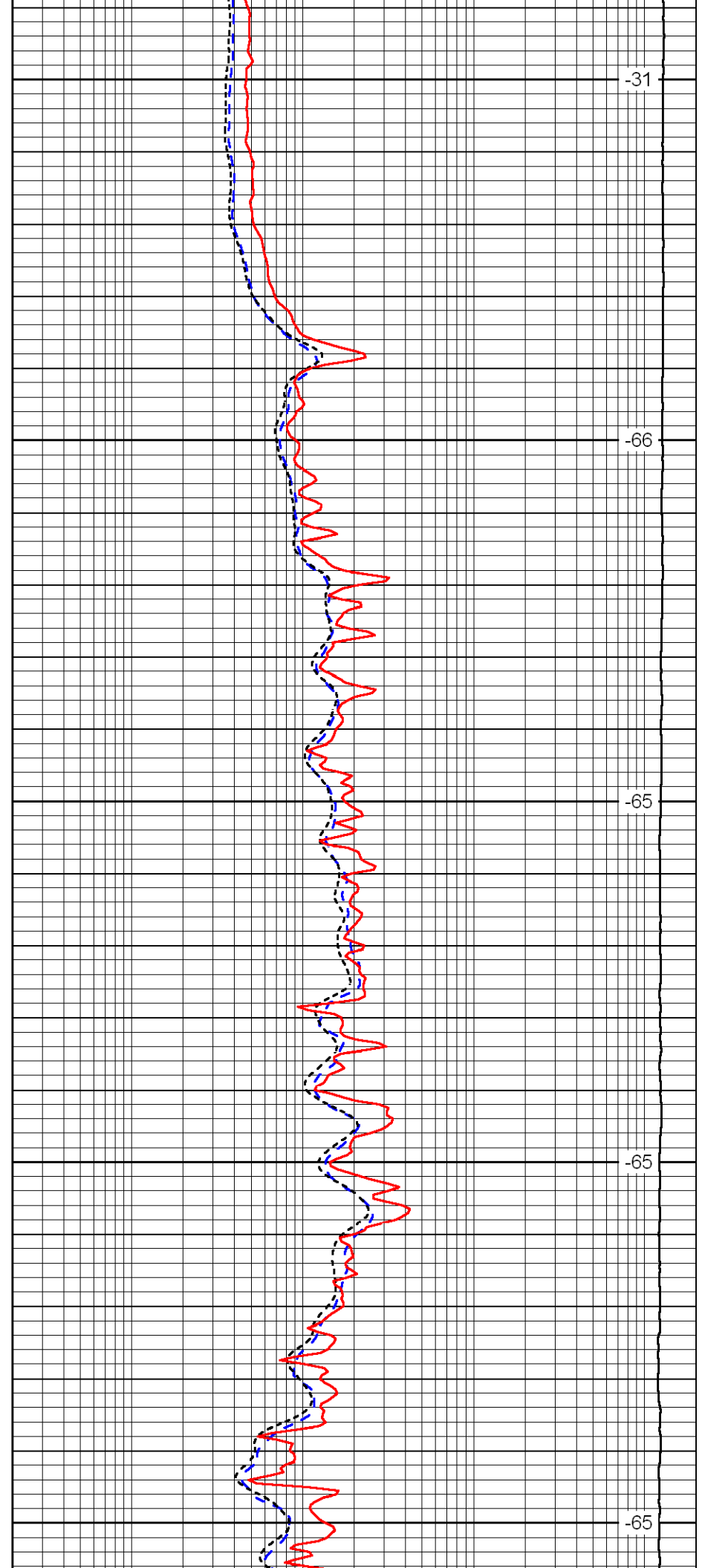
250

300

350

400

450



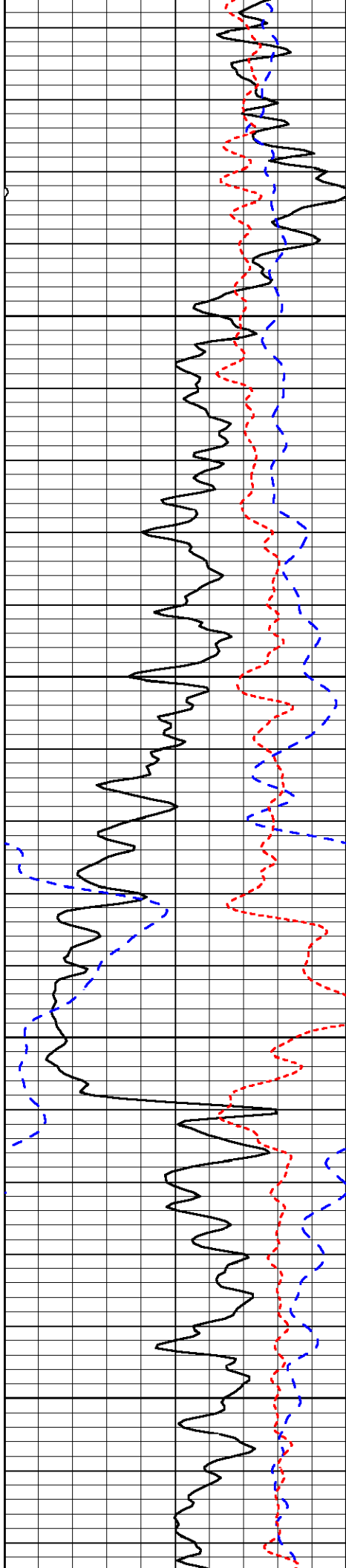
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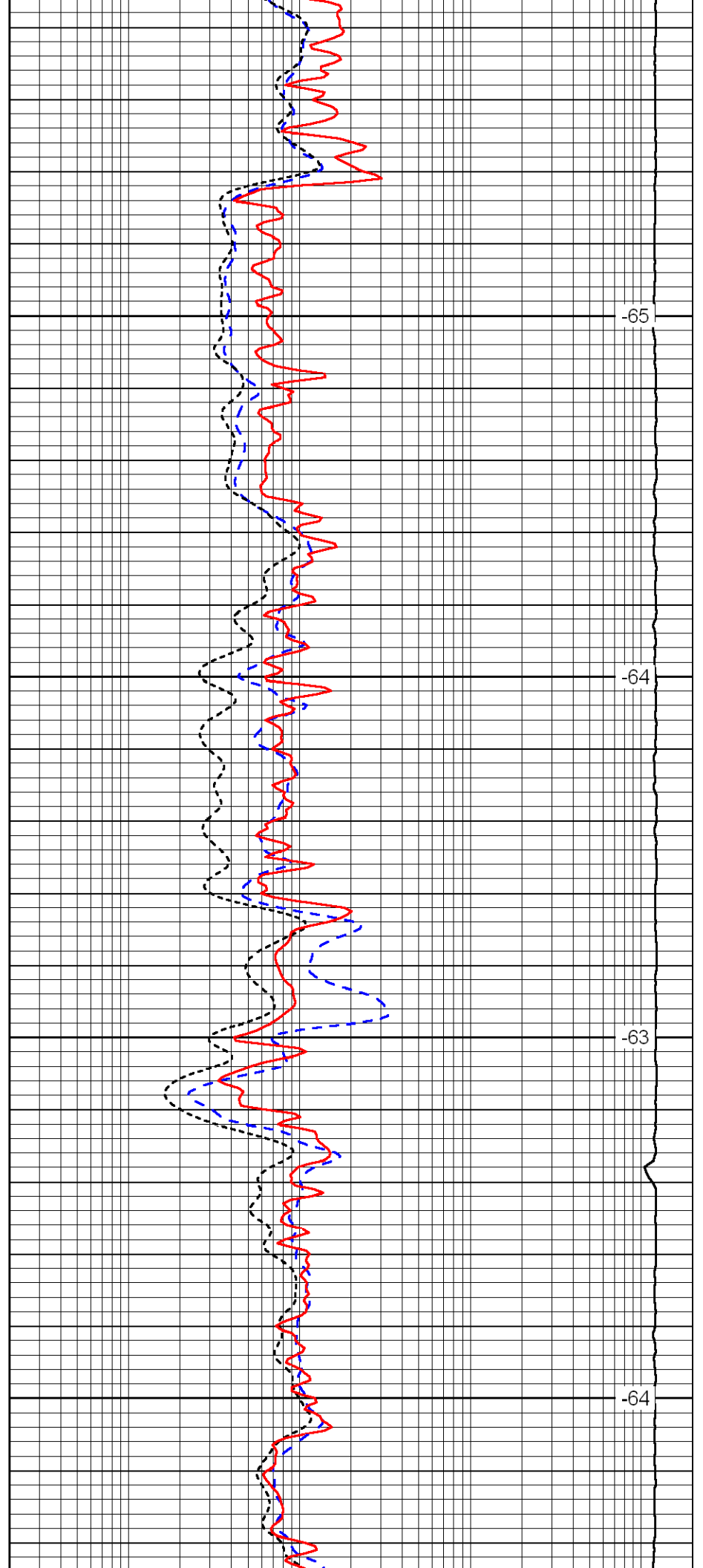


500

550

600

650

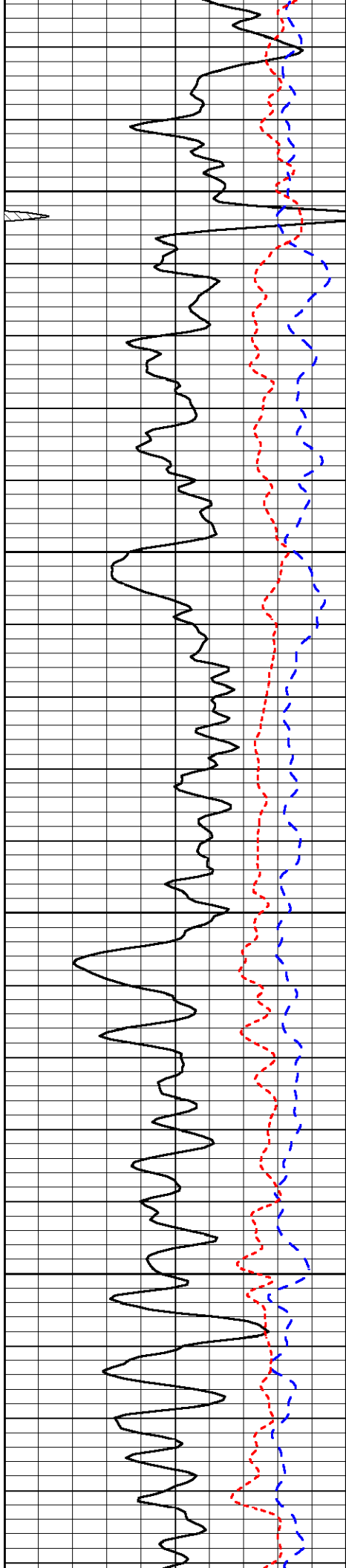


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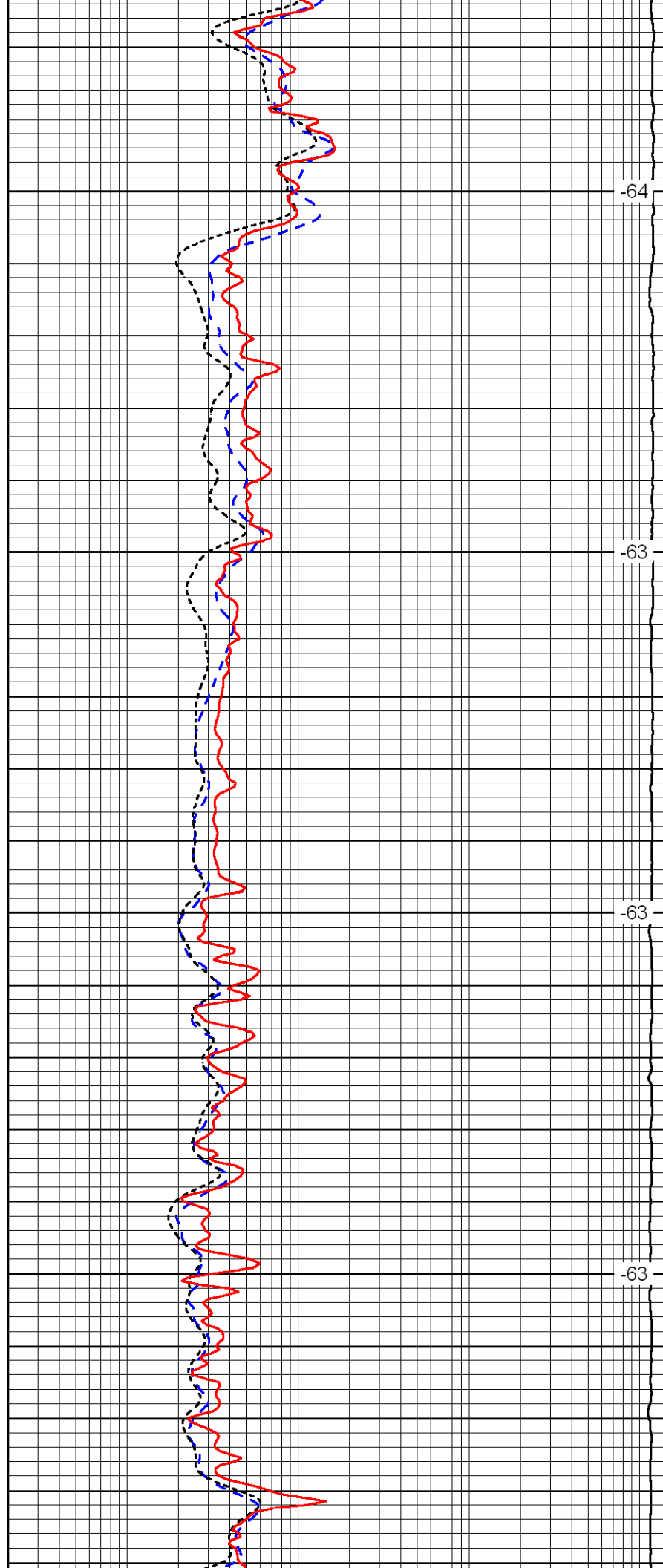


700

750

800

850

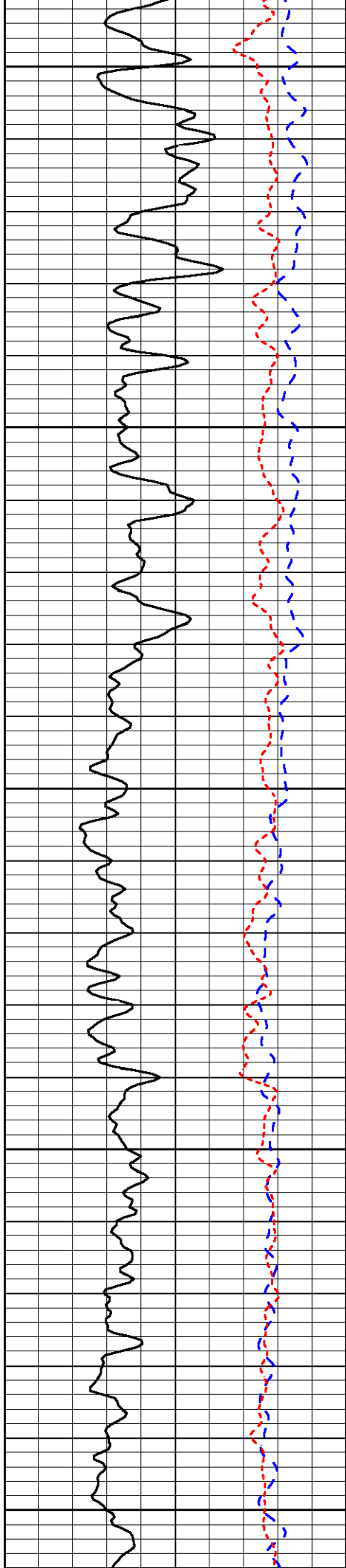


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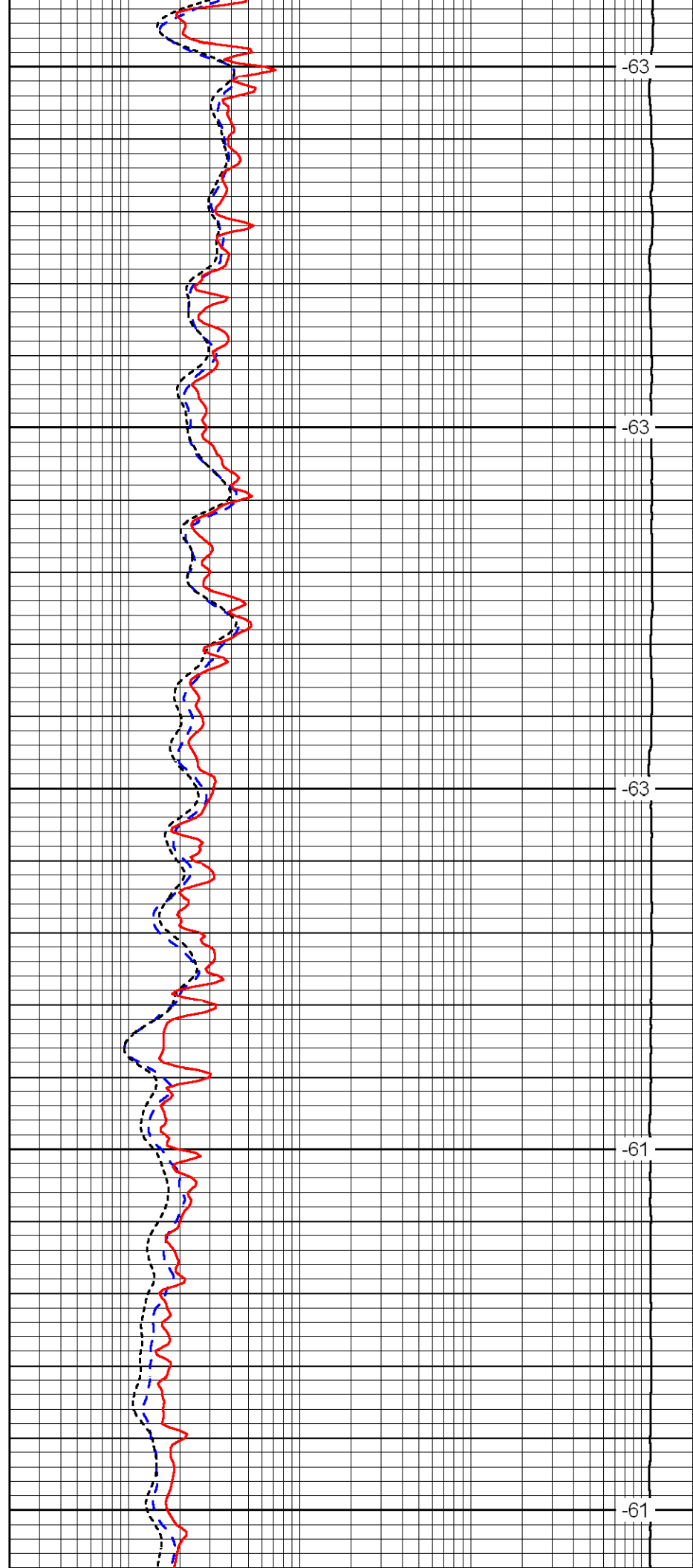
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950

1000

1050

1100



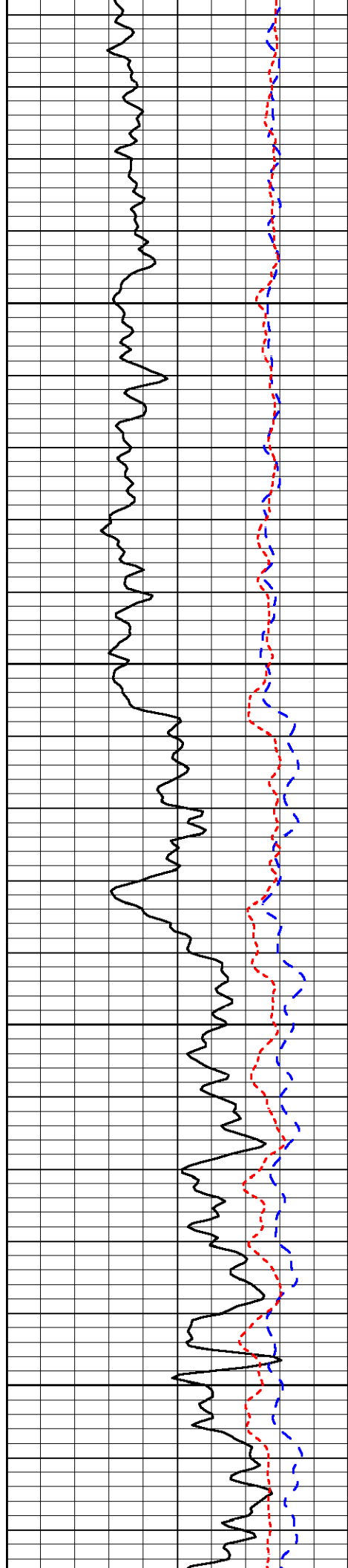
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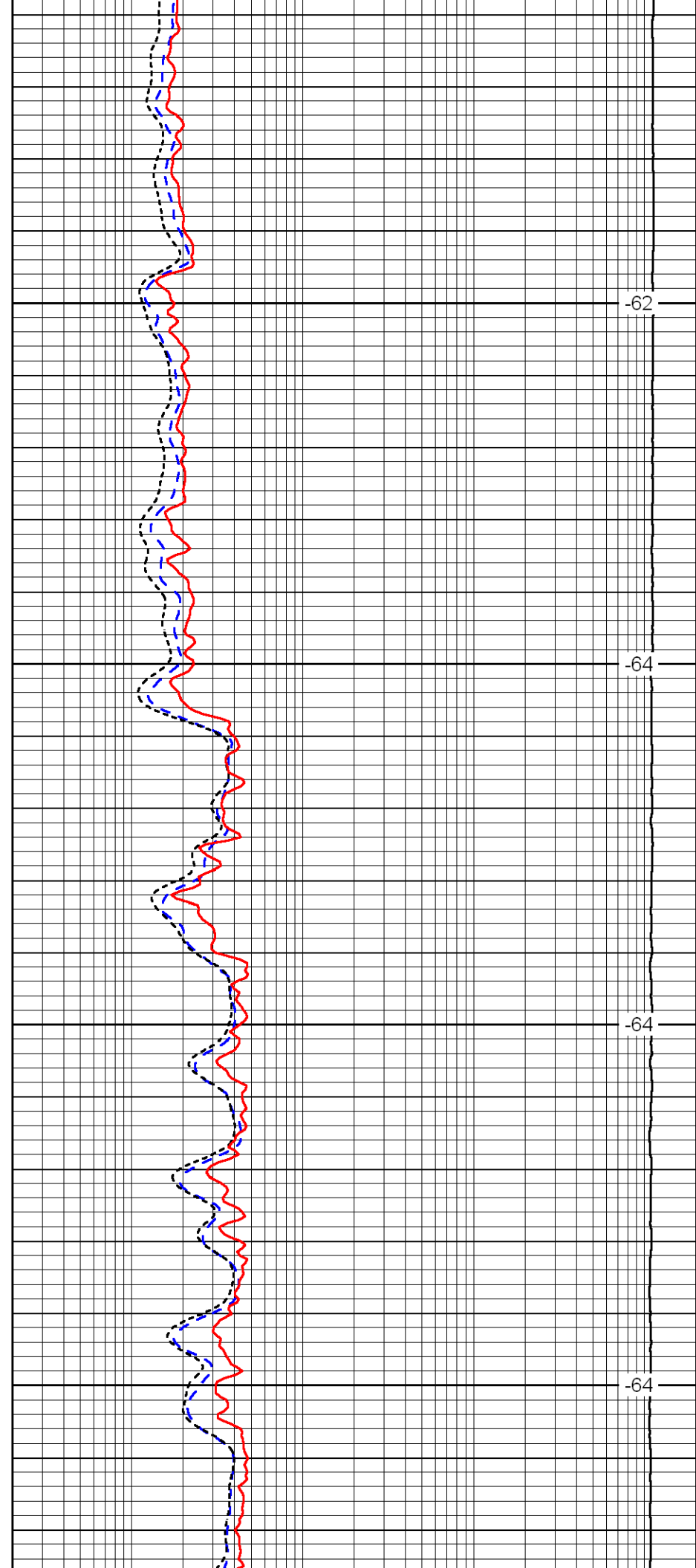


1150

1200

1250

1300

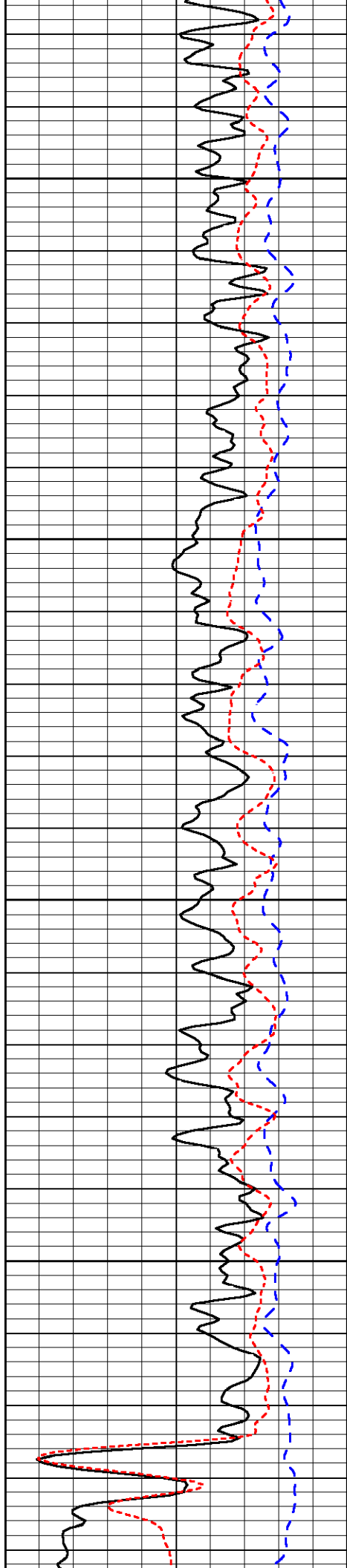


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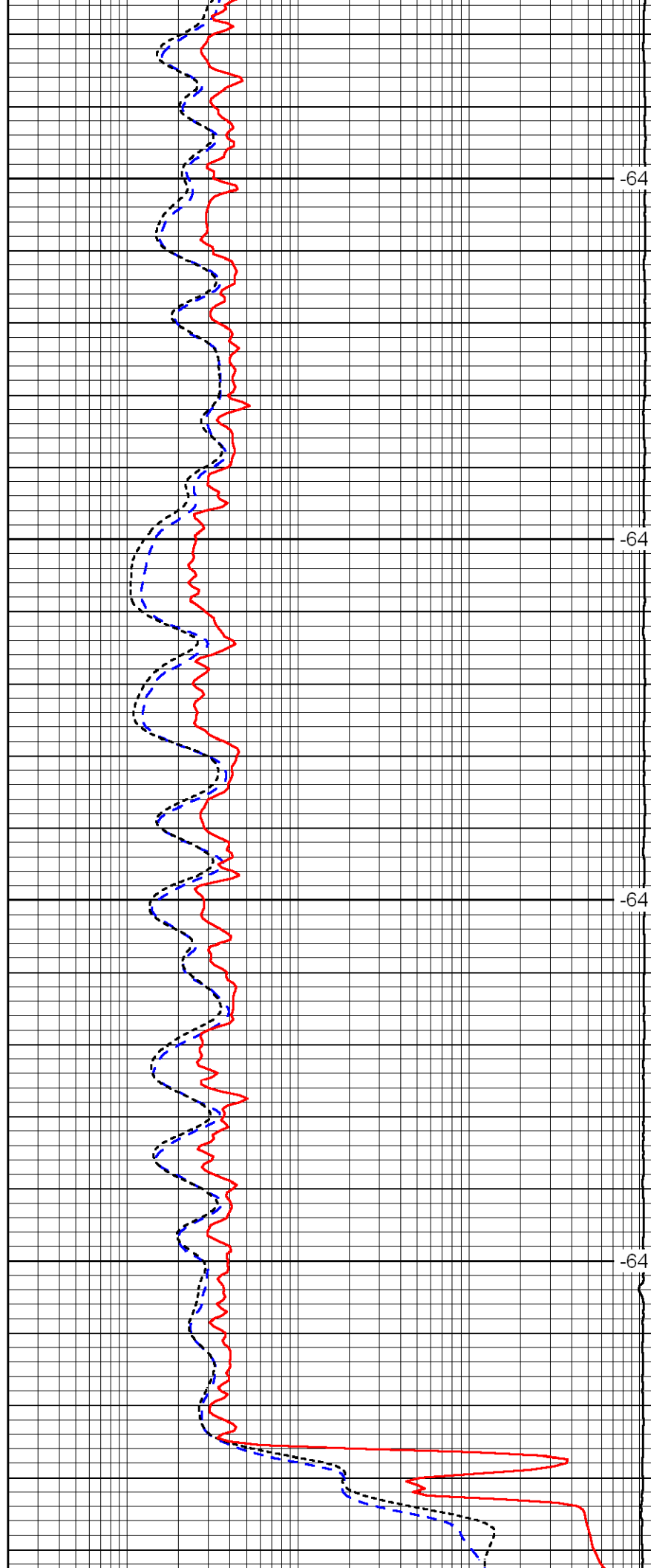


1350

1400

1450

1500

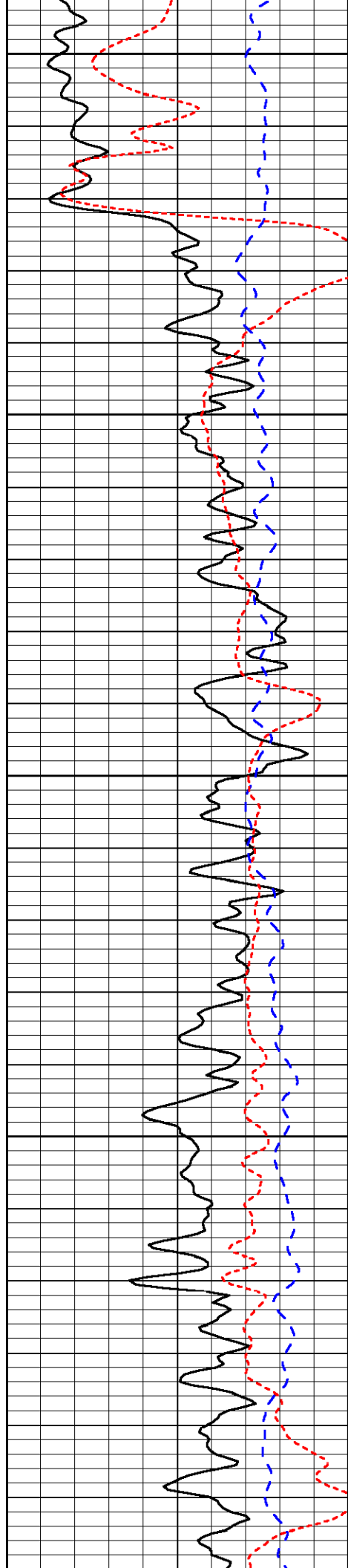


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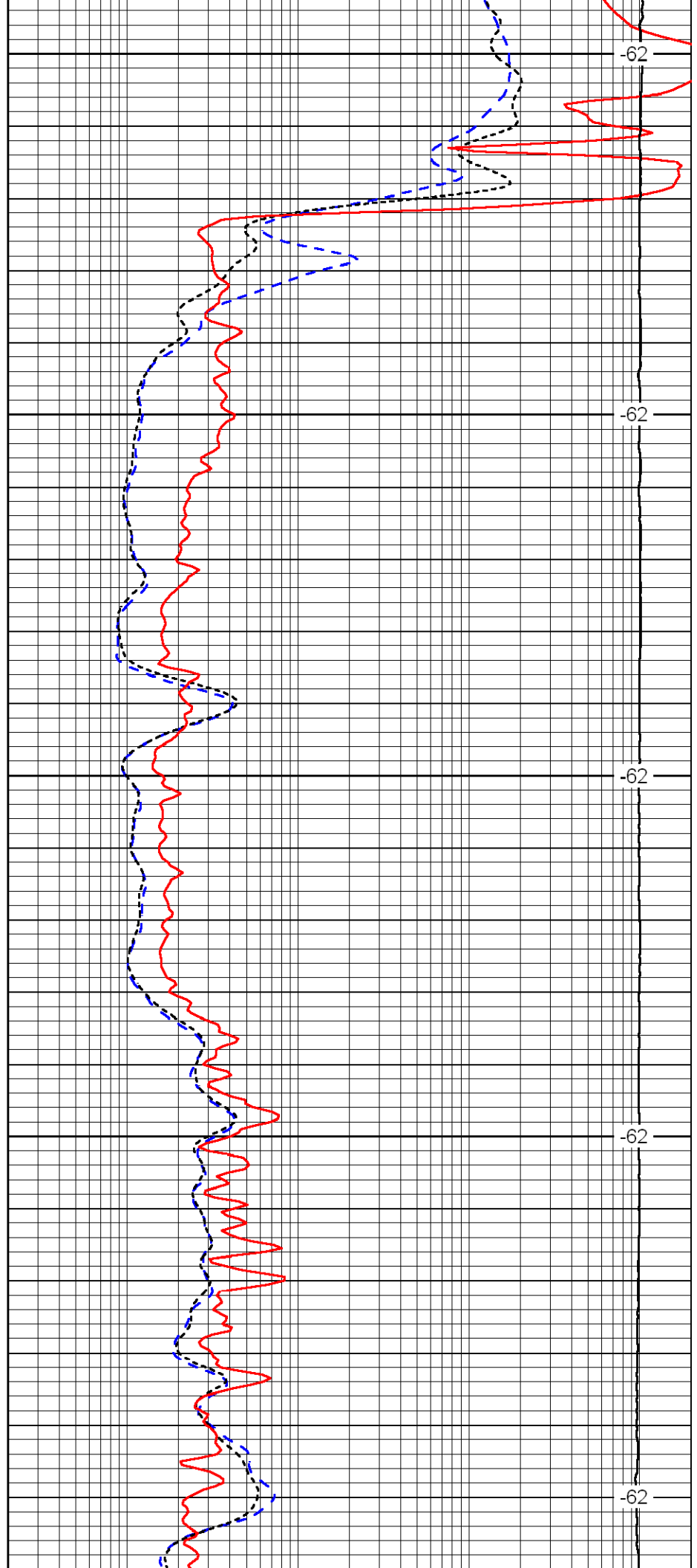
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1600

1650

1700

1750



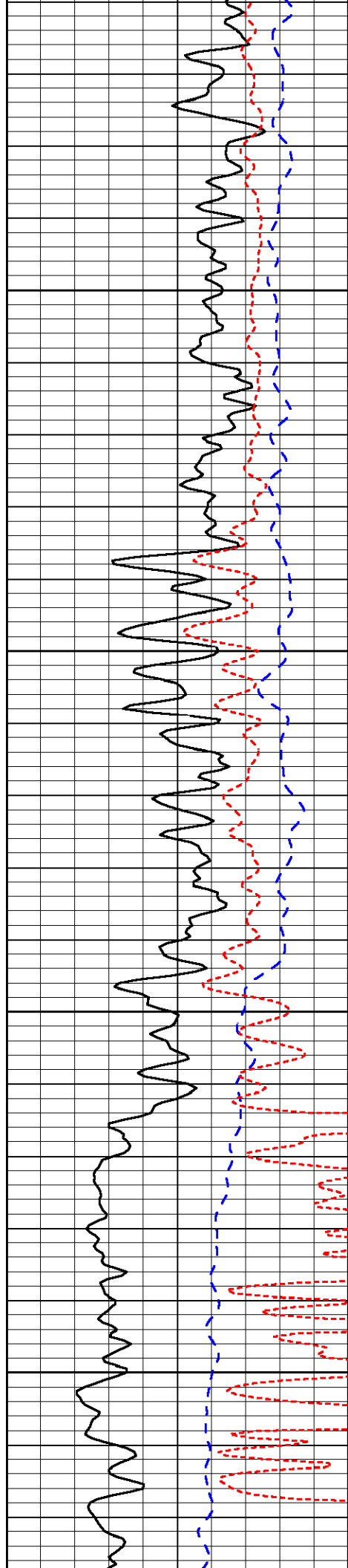
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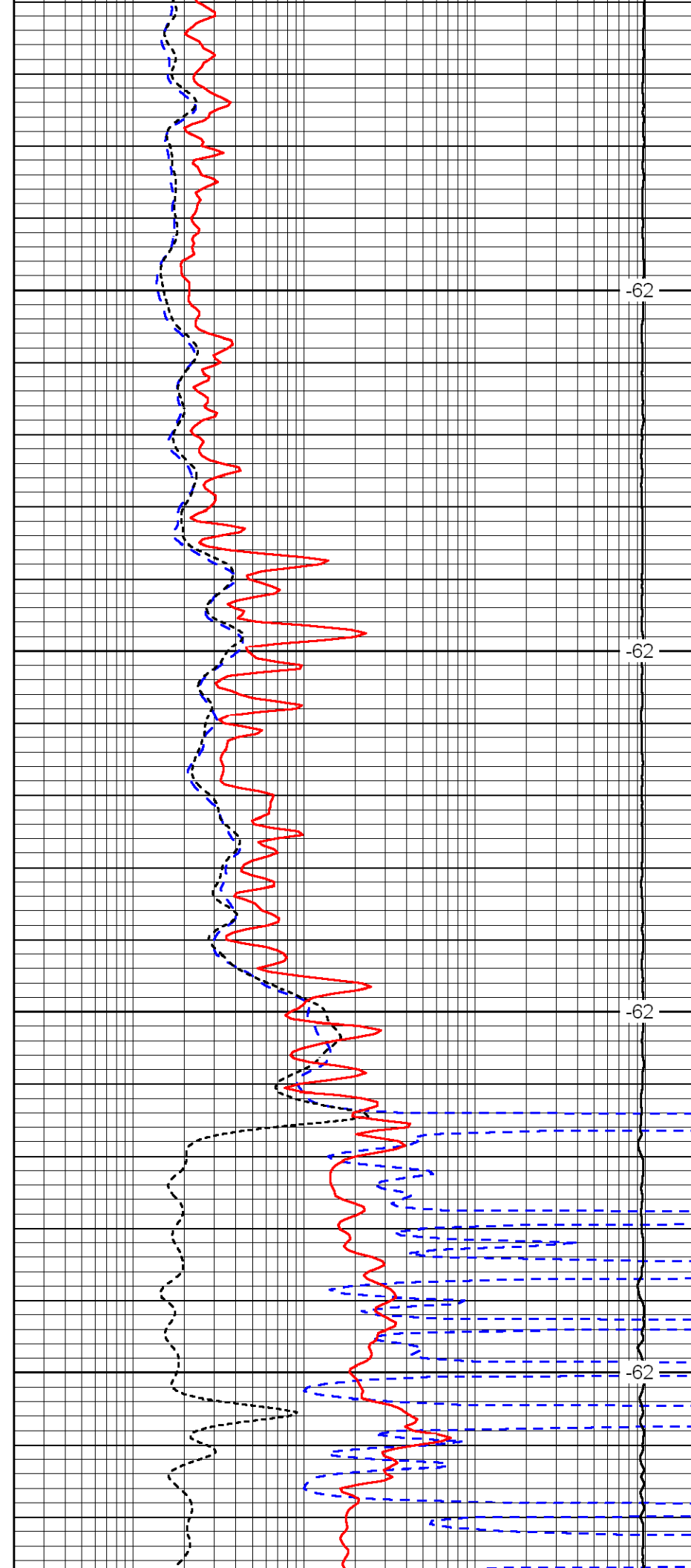


1800

1850

1900

1950

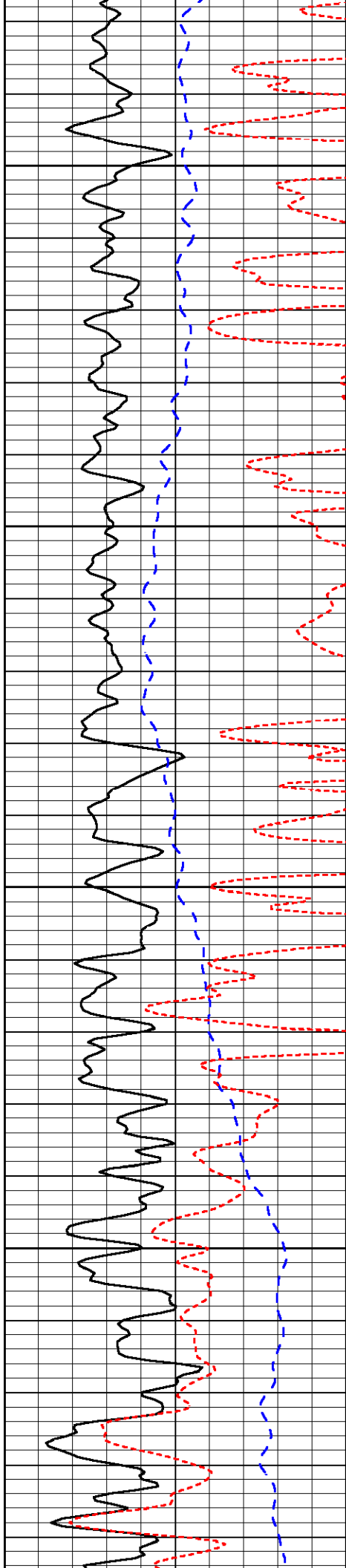


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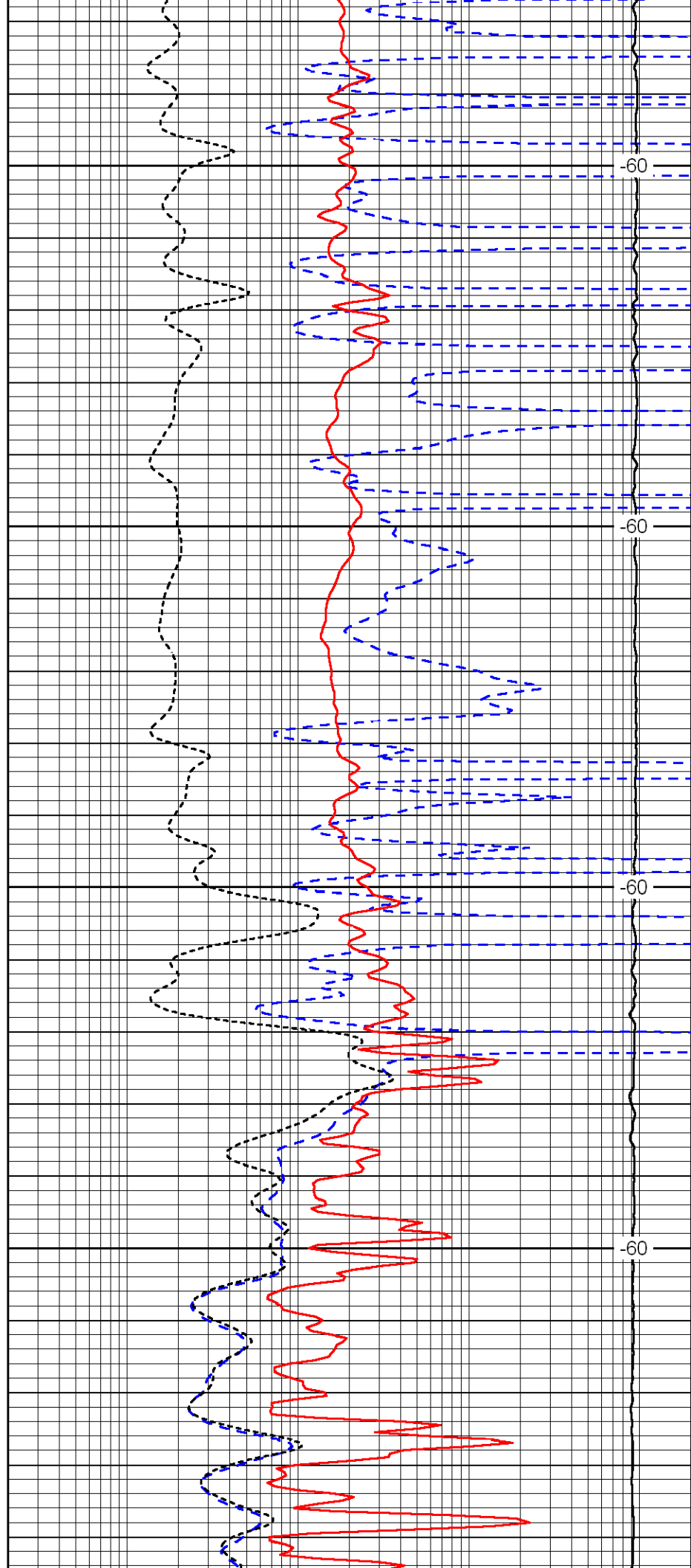


2000

2050

2100

2150

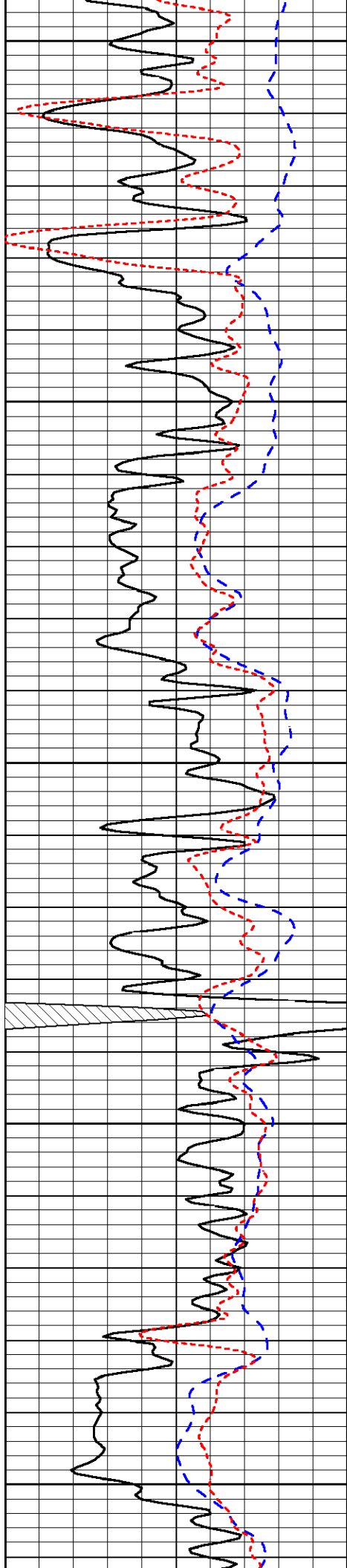


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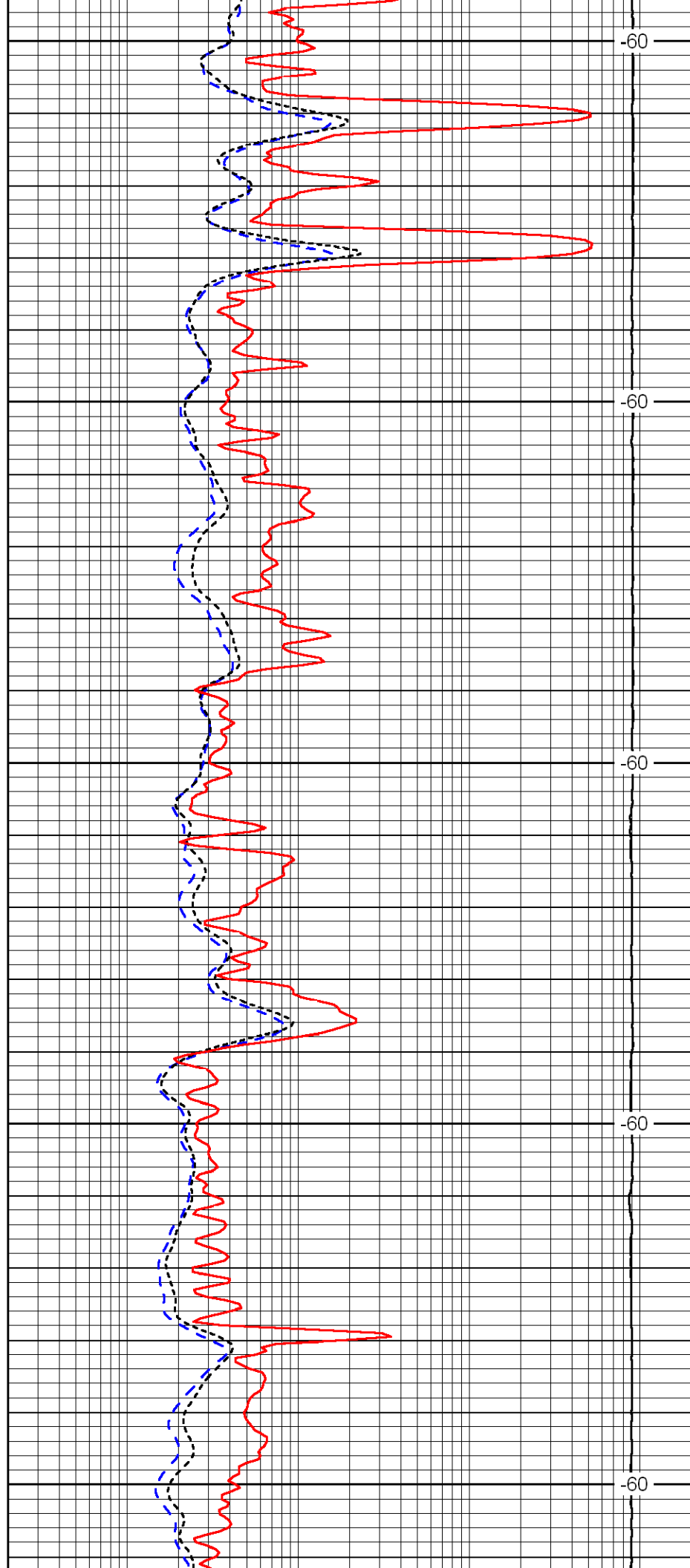
2200

2250

2300

2350

2400



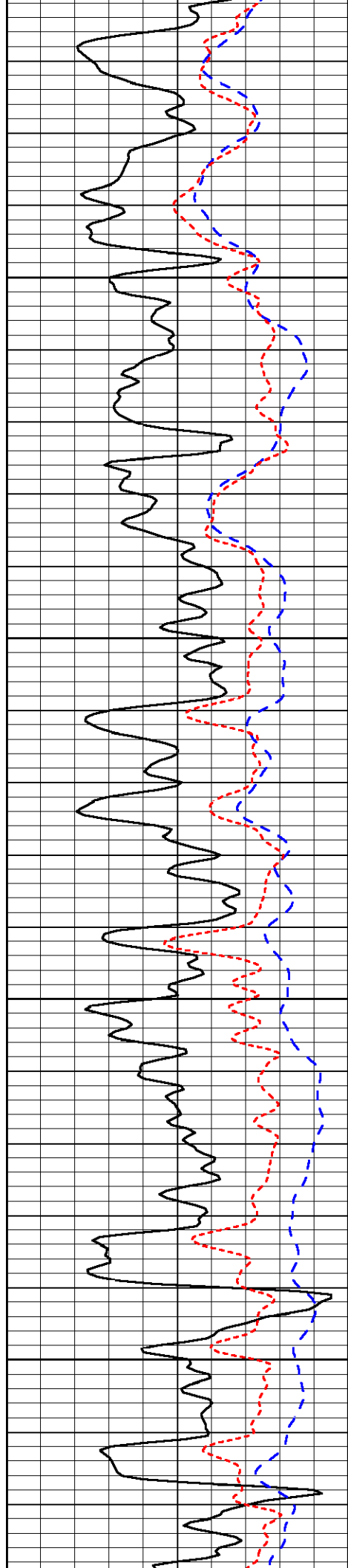
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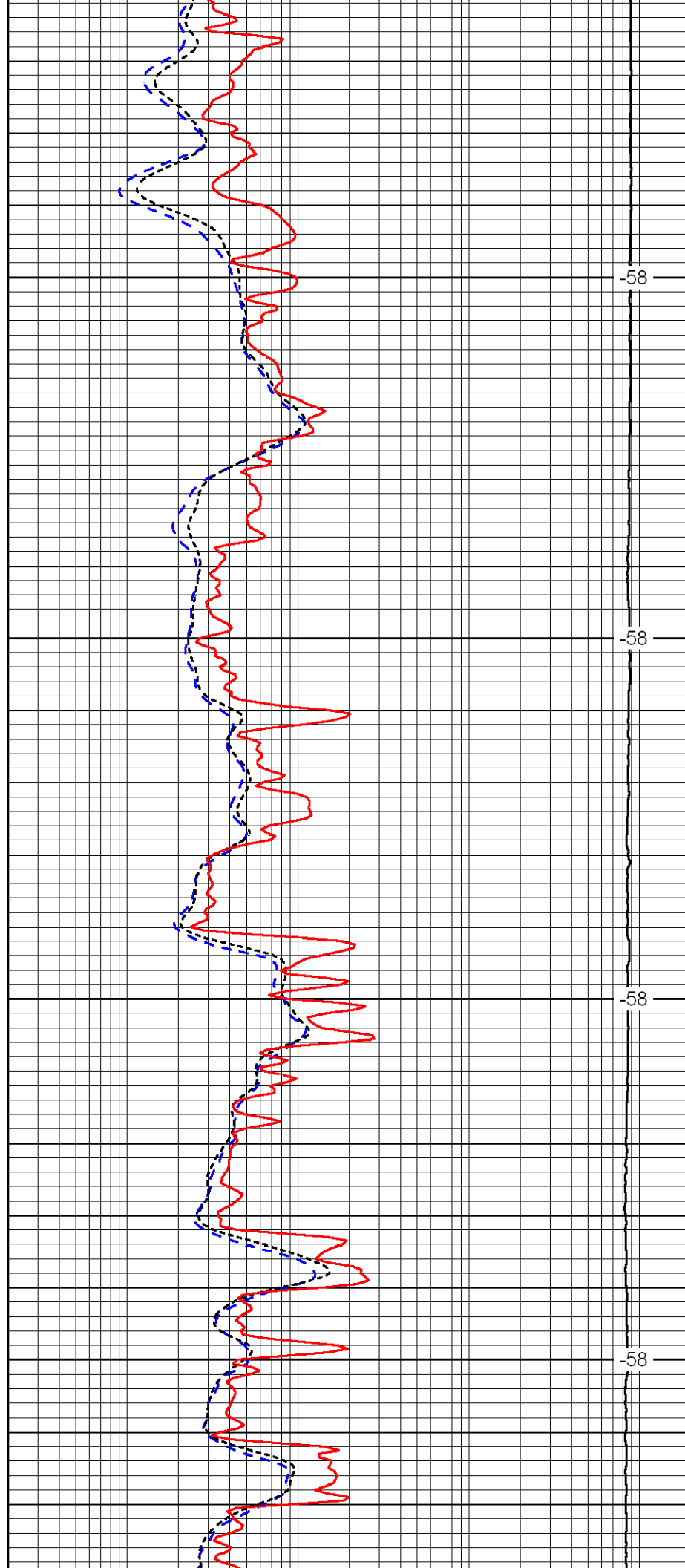


2450

2500

2550

2600

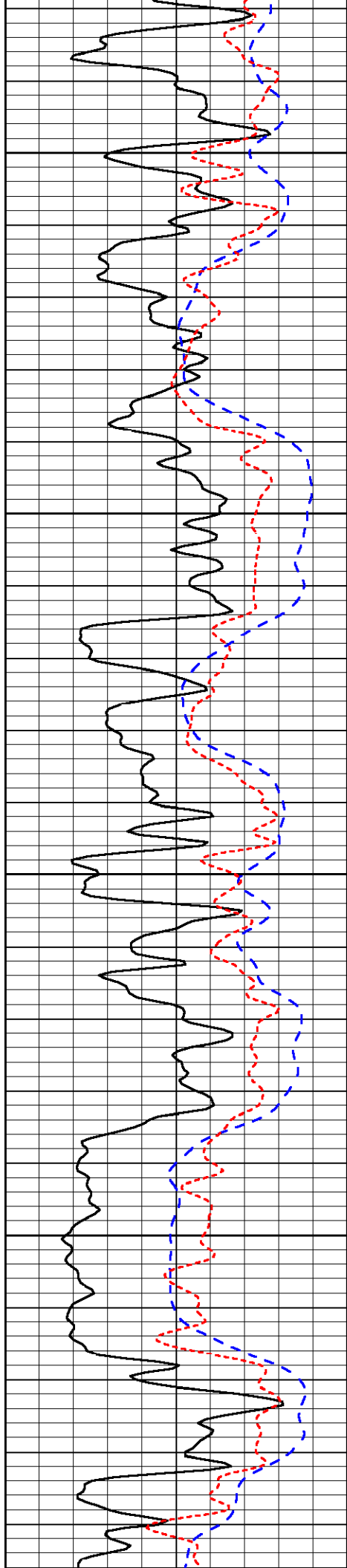


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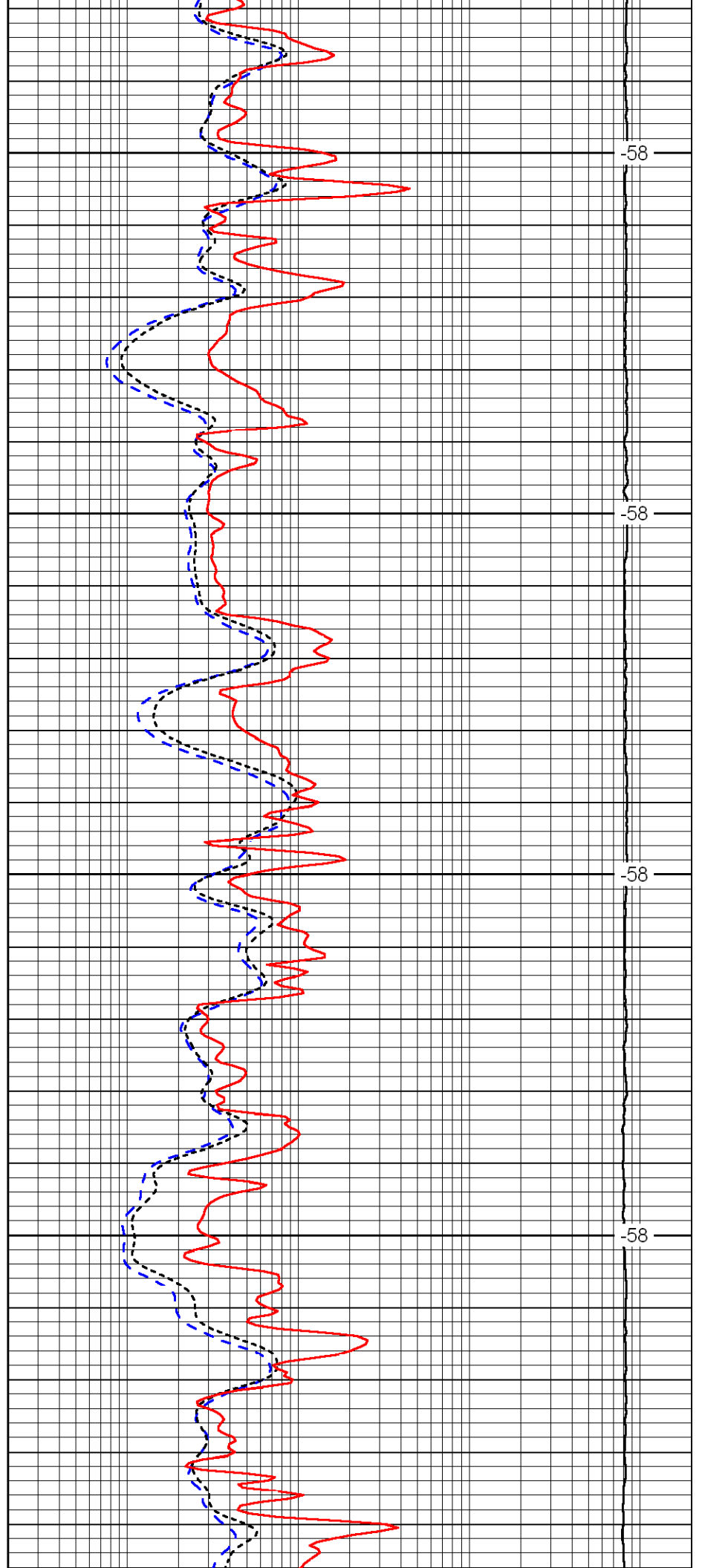


2650

2700

2750

2800

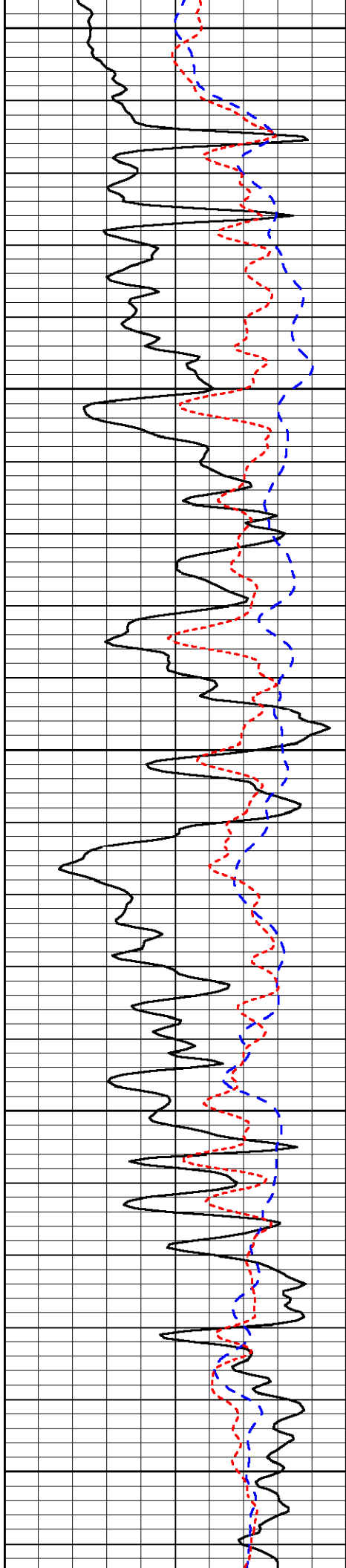


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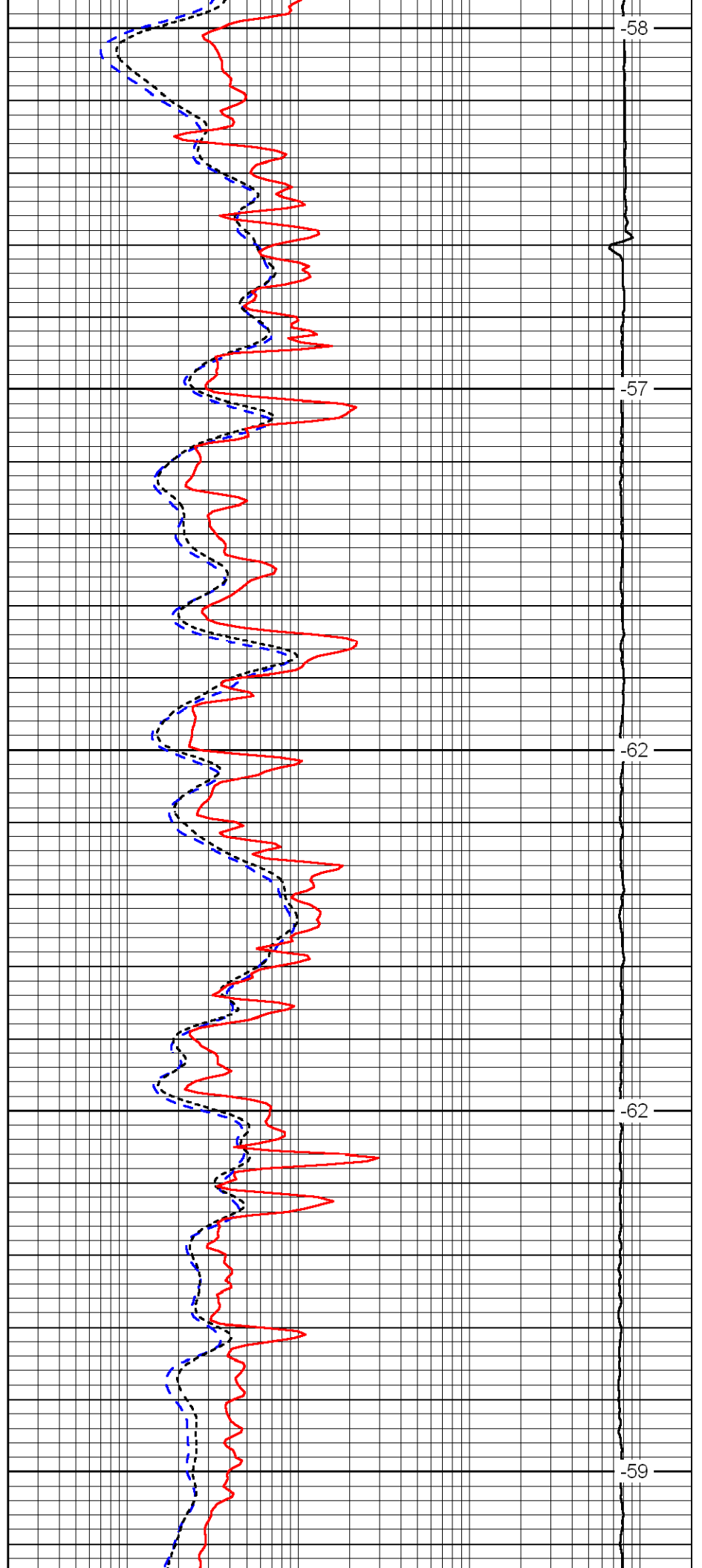
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2900

2950

3000

3050



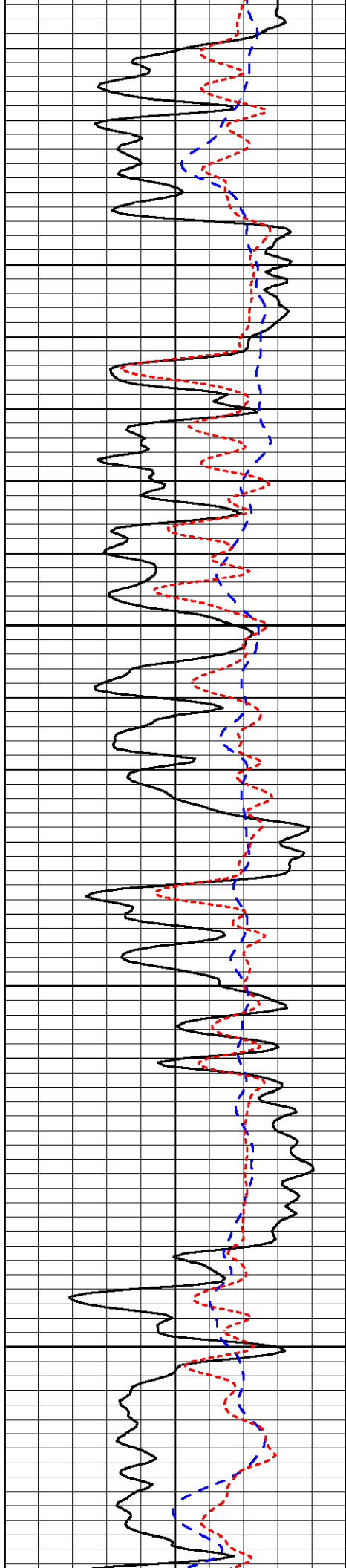
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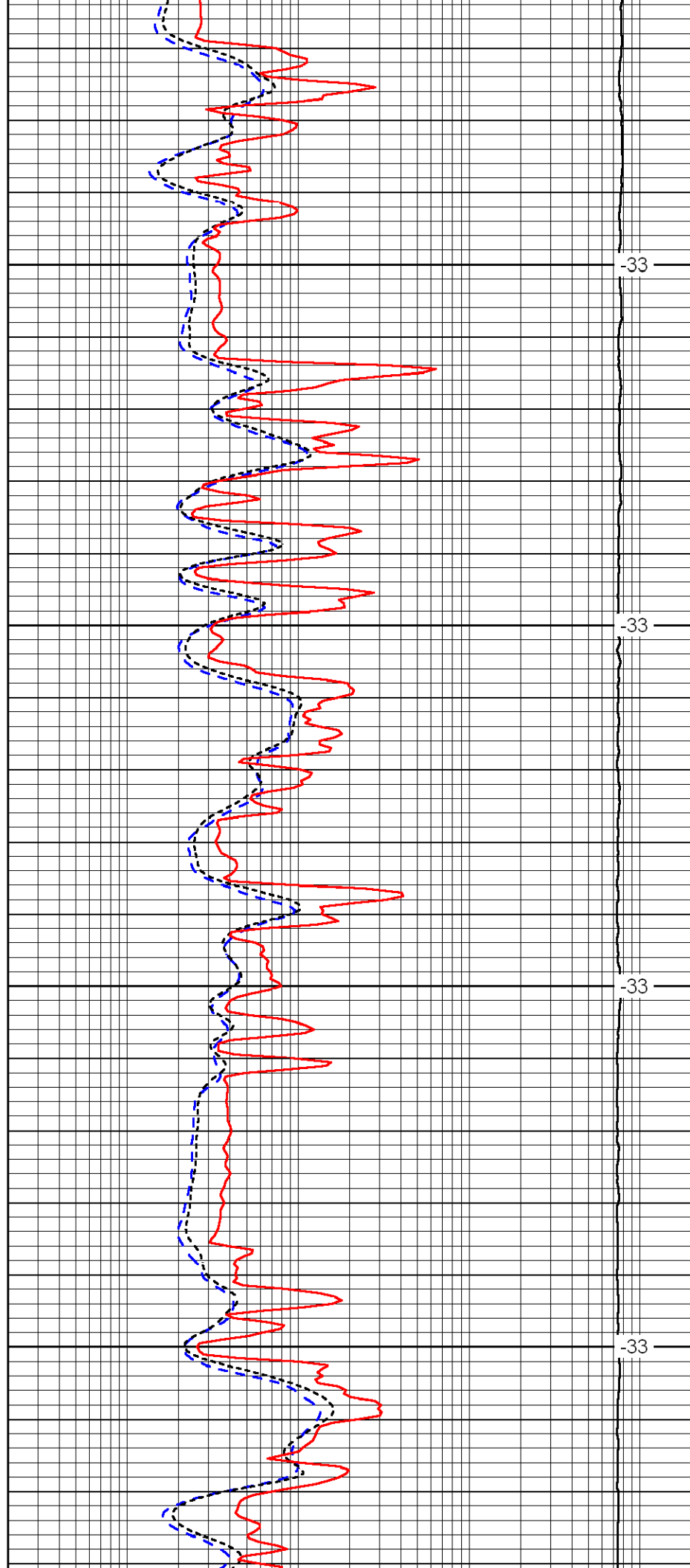


3100

3150

3200

3250

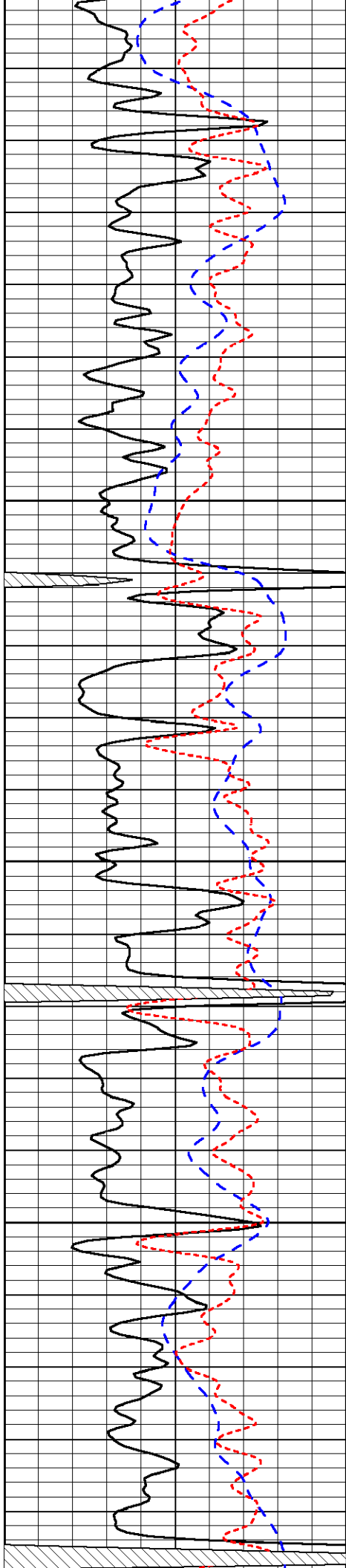


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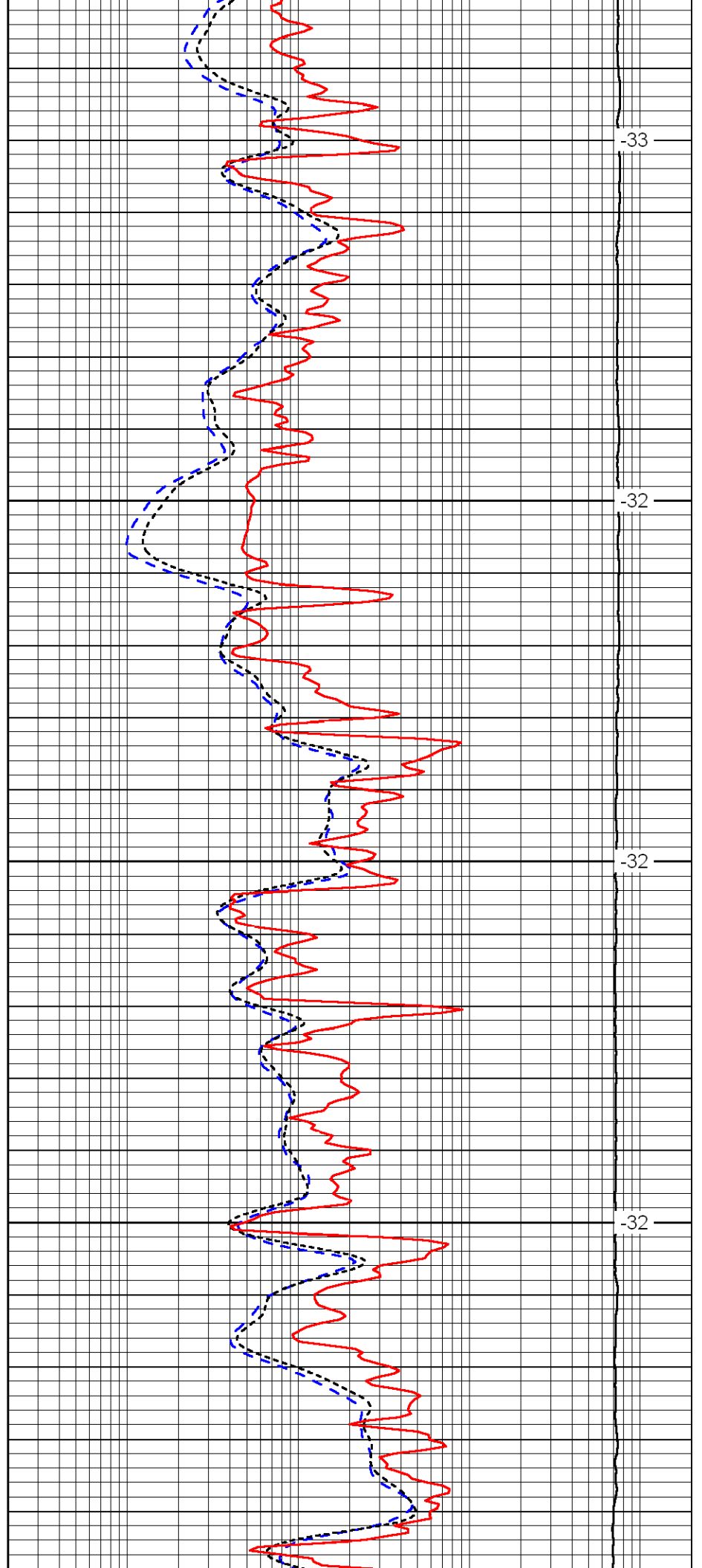


3300

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3400

3450

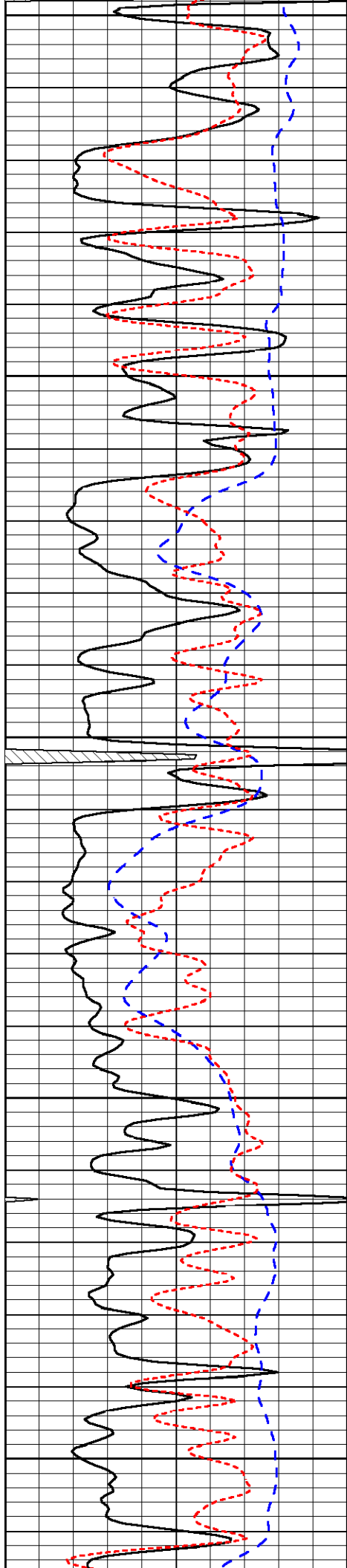


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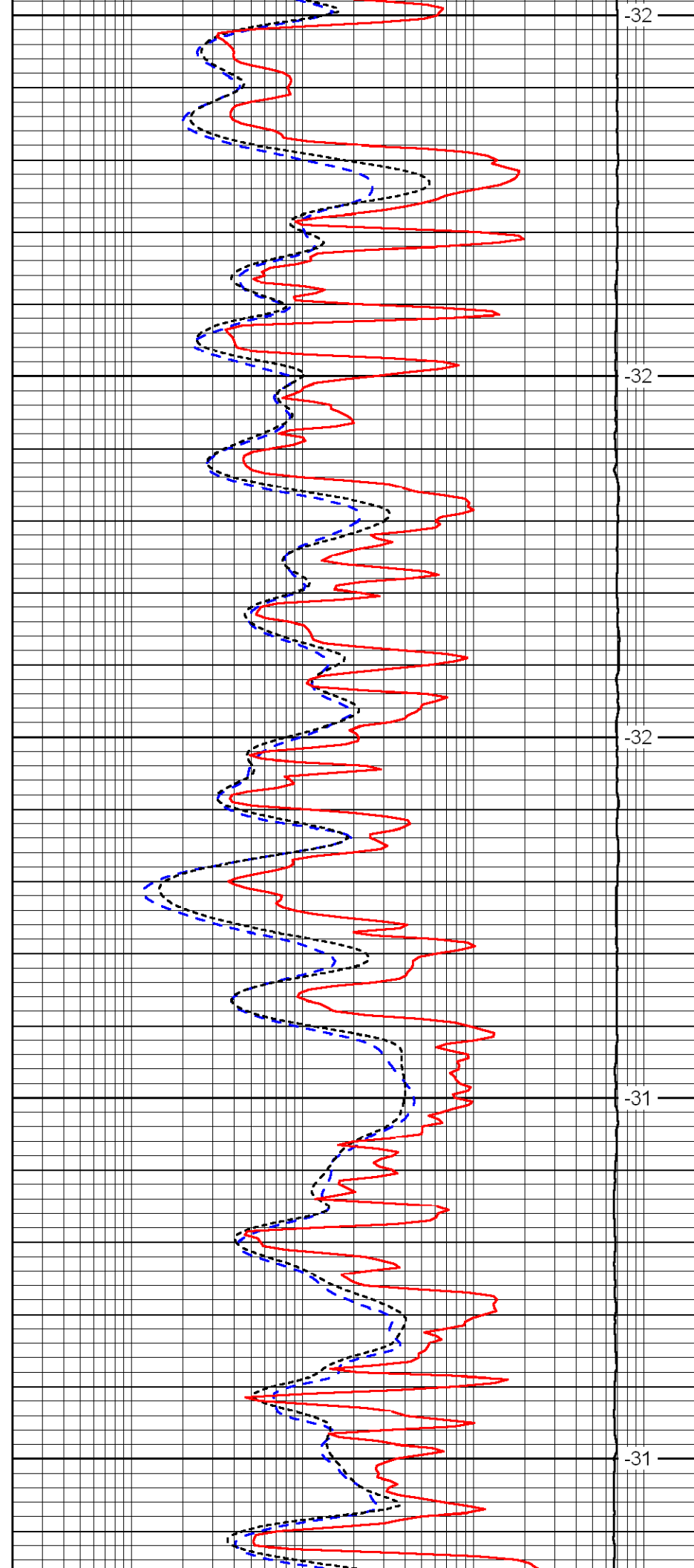
3500

3550

3600

3650

3700



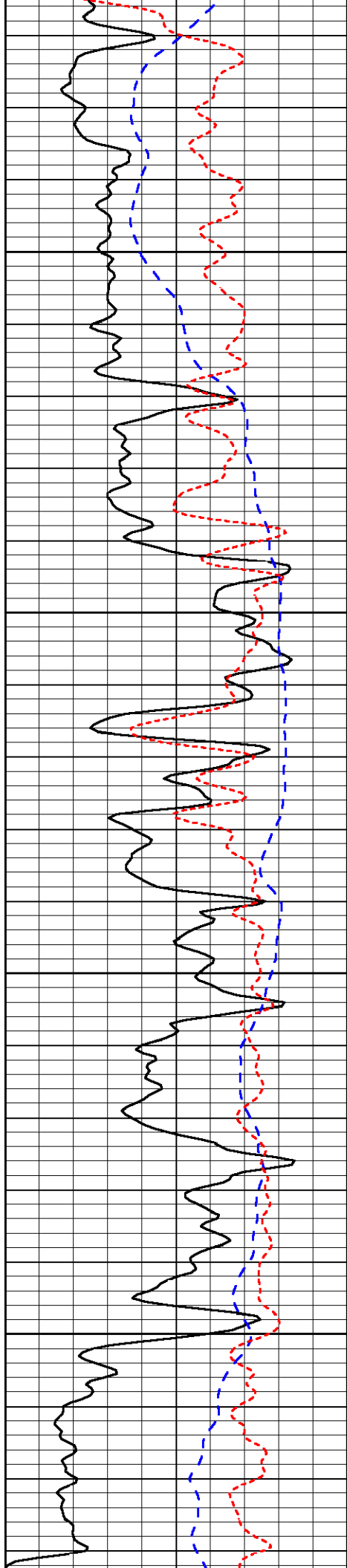
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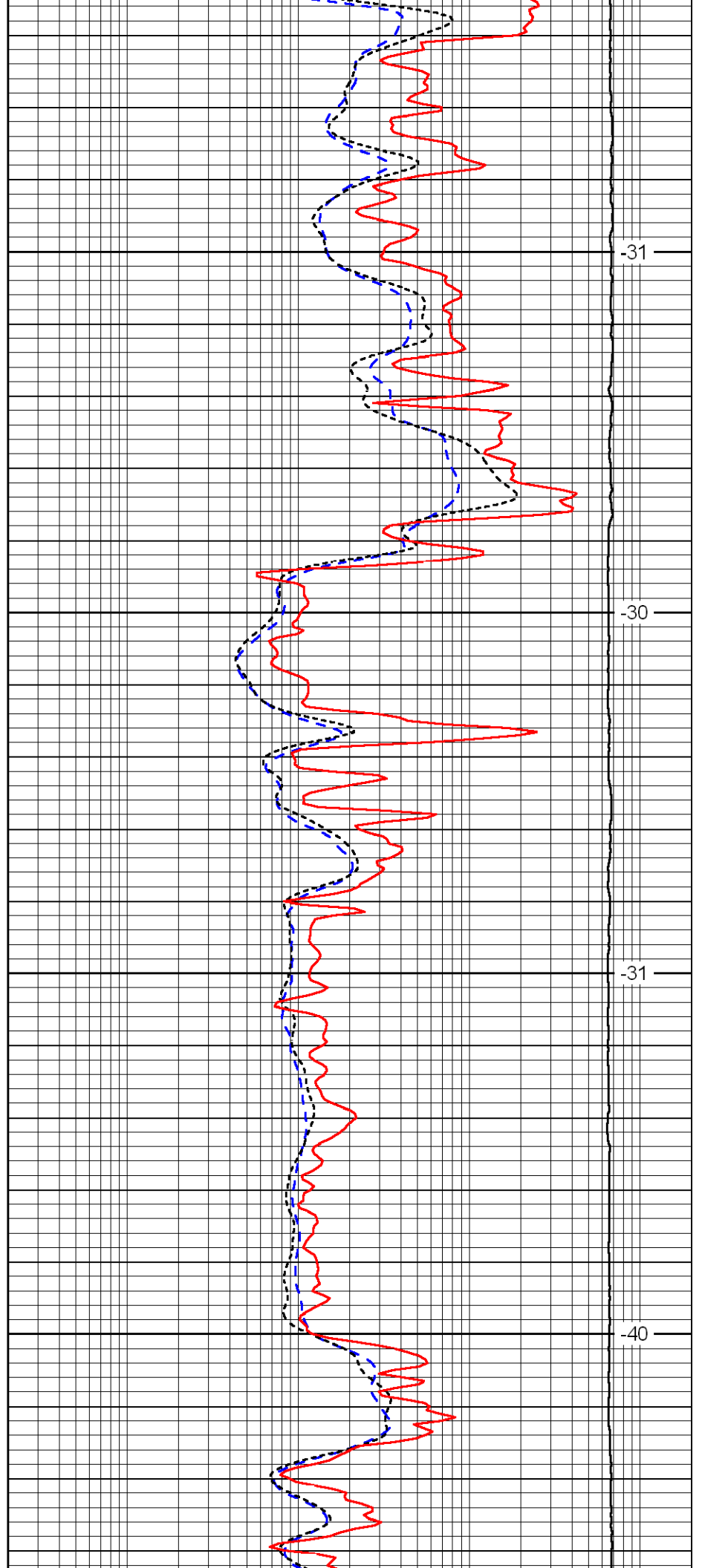


3750

3800

3850

3900

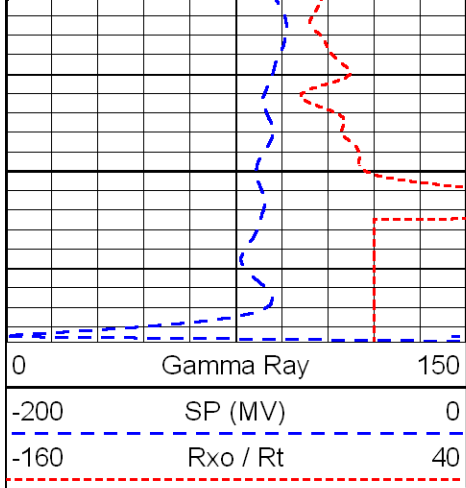


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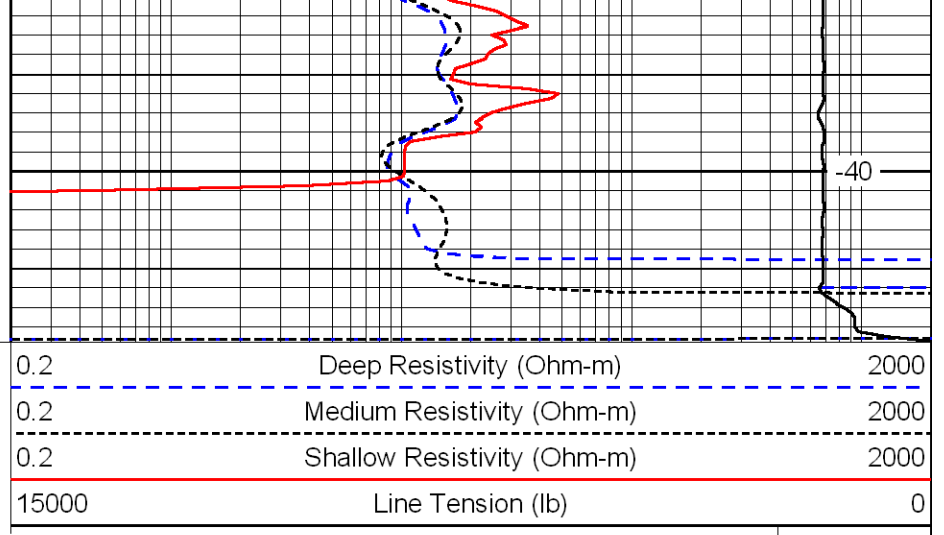
-30

-31

-40



3950



-40

LSPD
(ft/min)