



# Dual Induction Log

DIGITAL LOG (785) 625-3858

API No.	15-065-23638-00-00	
Company	Murfin Drilling Company, Inc.	
Well	Seamac No. 1-19	
Field	Nora	
County	Graham	State Kansas
Location	1960' FNL & 750' FWL	
Sec: 19	Twp: 10 S	Rge: 21 W
Permanent Datum	Ground Level	Elevation 2256
Log Measured From	Kelly Bushing	5 Ft. Above Perm. Datum
Drilling Measured From	Kelly Bushing	
		Other Services CNL/CDL MEL/BHCS
		Elevation K.B. 2261 D.F. 2256 G.L. 2256

Date	4/26/2010
Run Number	One
Depth Driller	3980
Depth Logger	3979
Bottom Logged Interval	3978
Top Log Interval	0
Casing Driller	8.625 @ 220
Casing Logger	214
Bit Size	7.875
Type Fluid in Hole	Chemical
Salinity, ppm CL	5000
Density / Viscosity	9.2   58
pH / Fluid Loss	11.0   6.8
Source of Sample	Flowline
Rm @ Meas. Temp	1.10 @ 60
Rmf @ Meas. Temp	0.83 @ 60
Rmc @ Meas. Temp	1.49 @ 60
Source of Rmf / Rmc	Charts
Rm @ BHT	0.57 @ 116
Operating Rig Time	4 1/2 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

Ellis, Ks; West on I-70 to Riga Rd;  
 North to Dead End; 2-3/4 West; 2 North;  
 1 West; 3/4 North; East Into

Database File: c:\warrior\data\murfin\_seamac #1-19\murfinhd.db  
 Dataset Pathname: DIL\murfstk  
 Presentation Format: dil2in  
 Dataset Creation: Mon Apr 26 16:57:39 2010  
 Charted by: Depth in Feet scaled 1:600

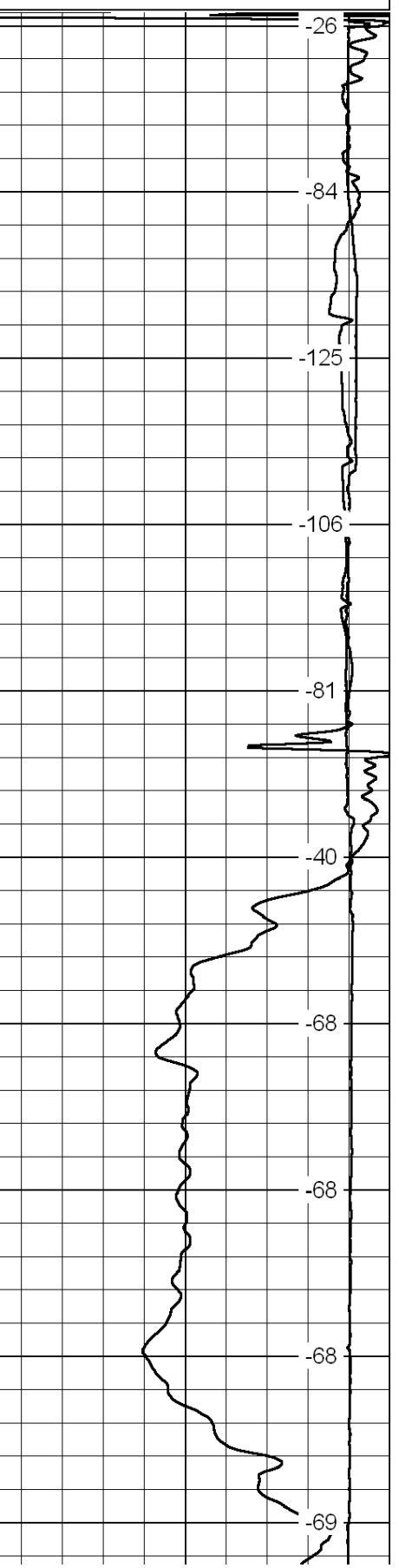
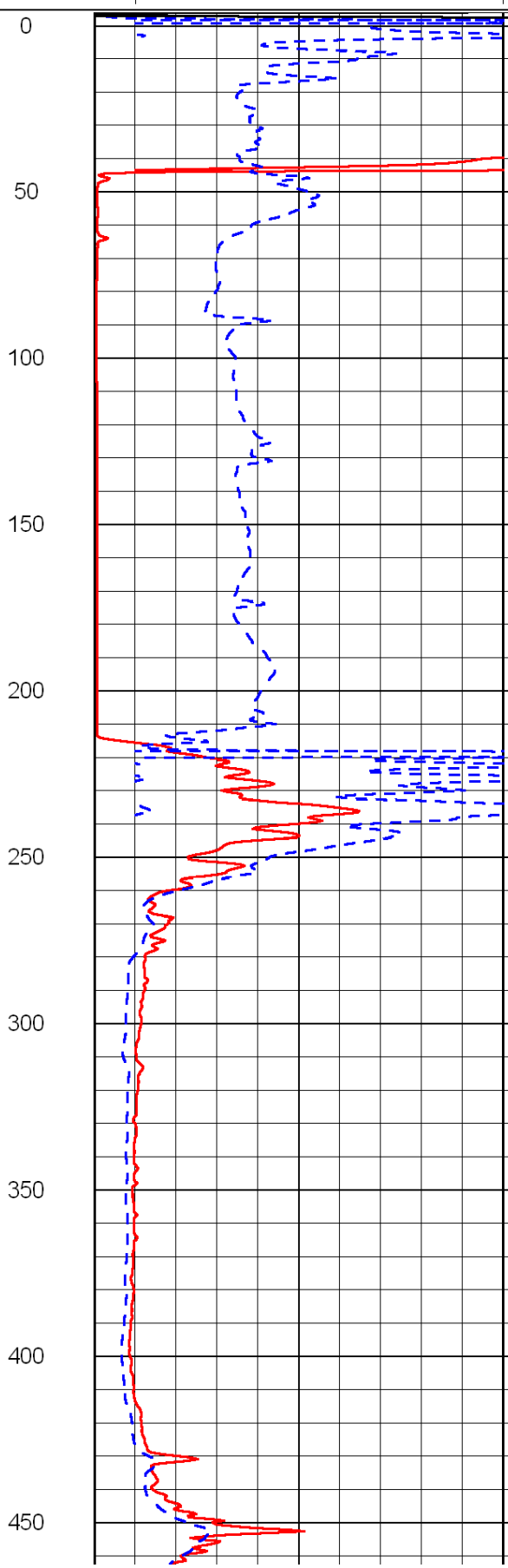
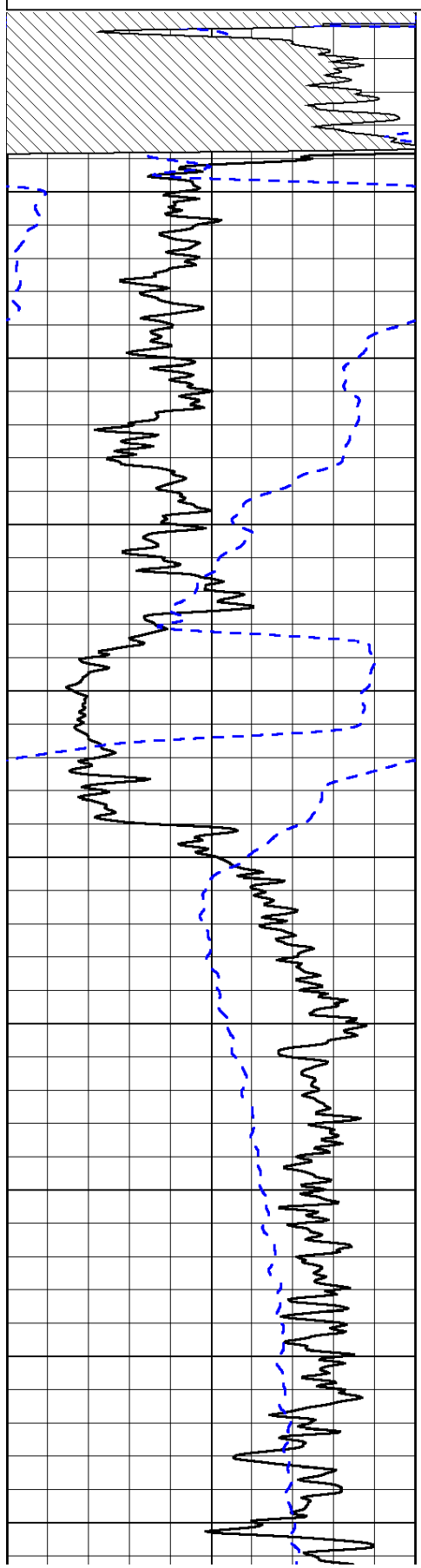
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-200	SP (mV)	0

0	Shallow Resistivity	50
0	Deep Resistivity	50

LSPD

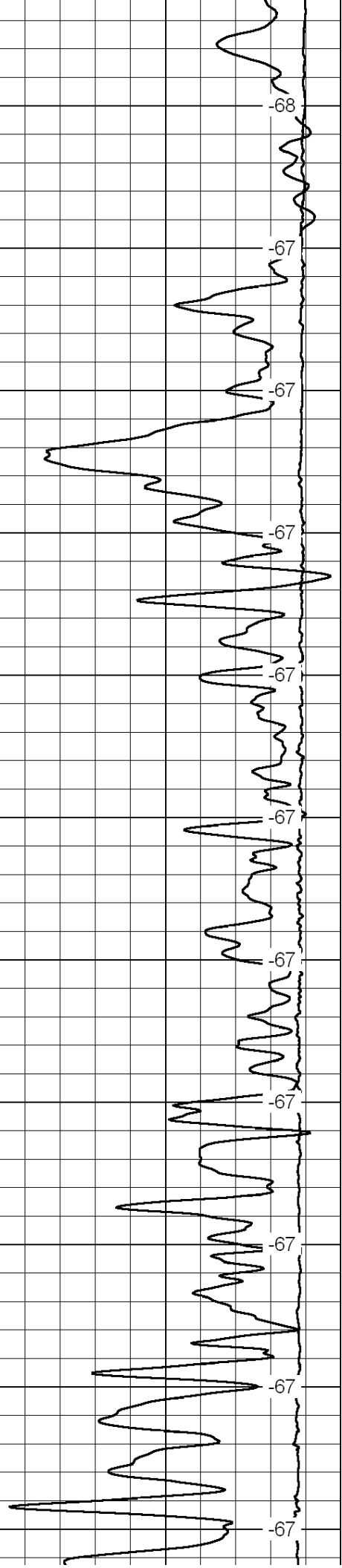
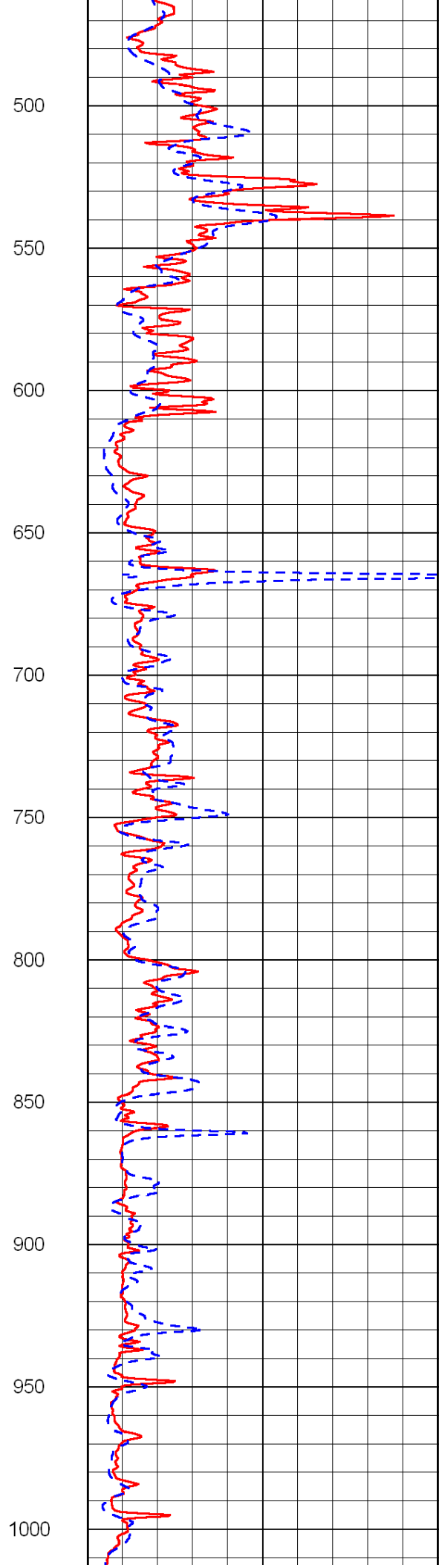
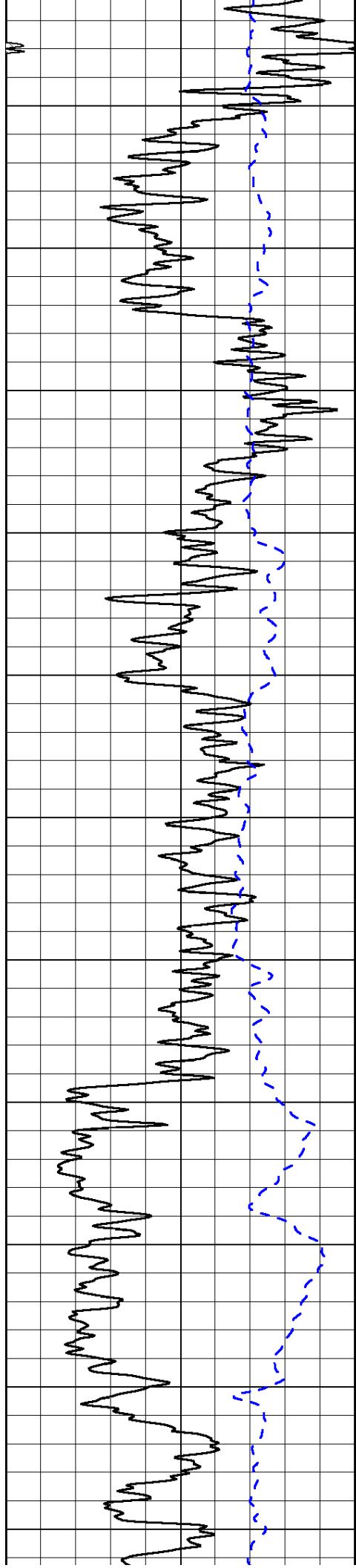
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15000	Line Tension	0

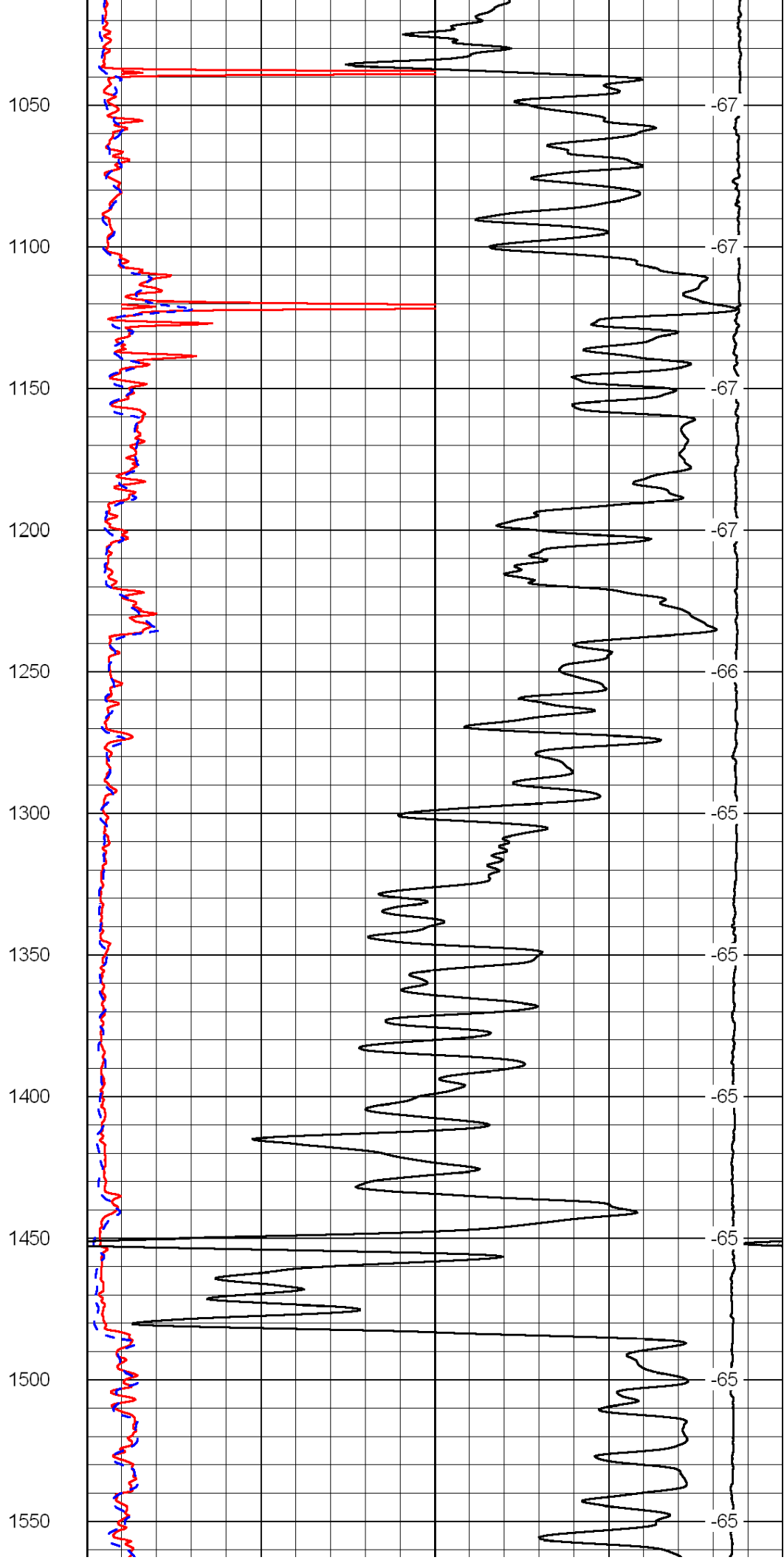
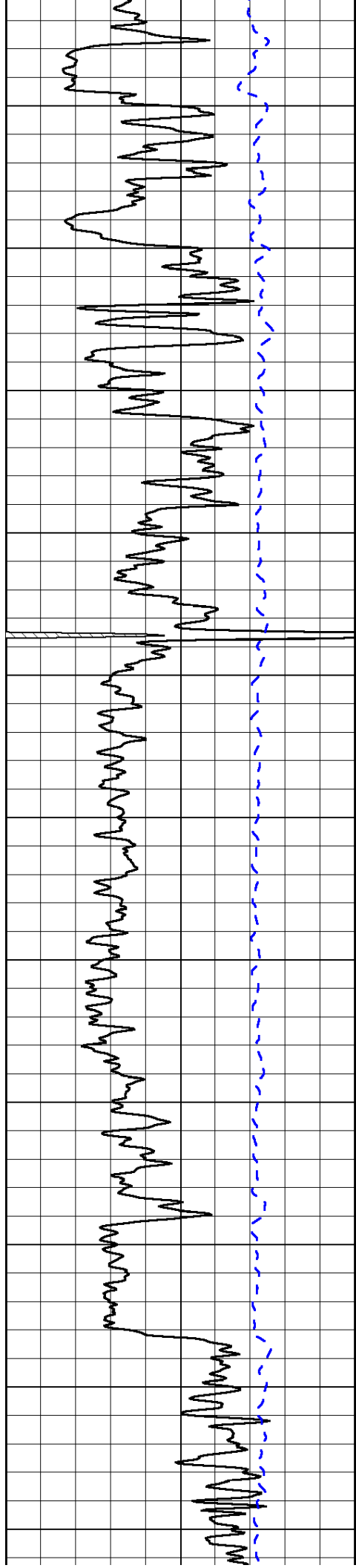
50	Shallow Resistivity	500
50	Deep Resistivity	500

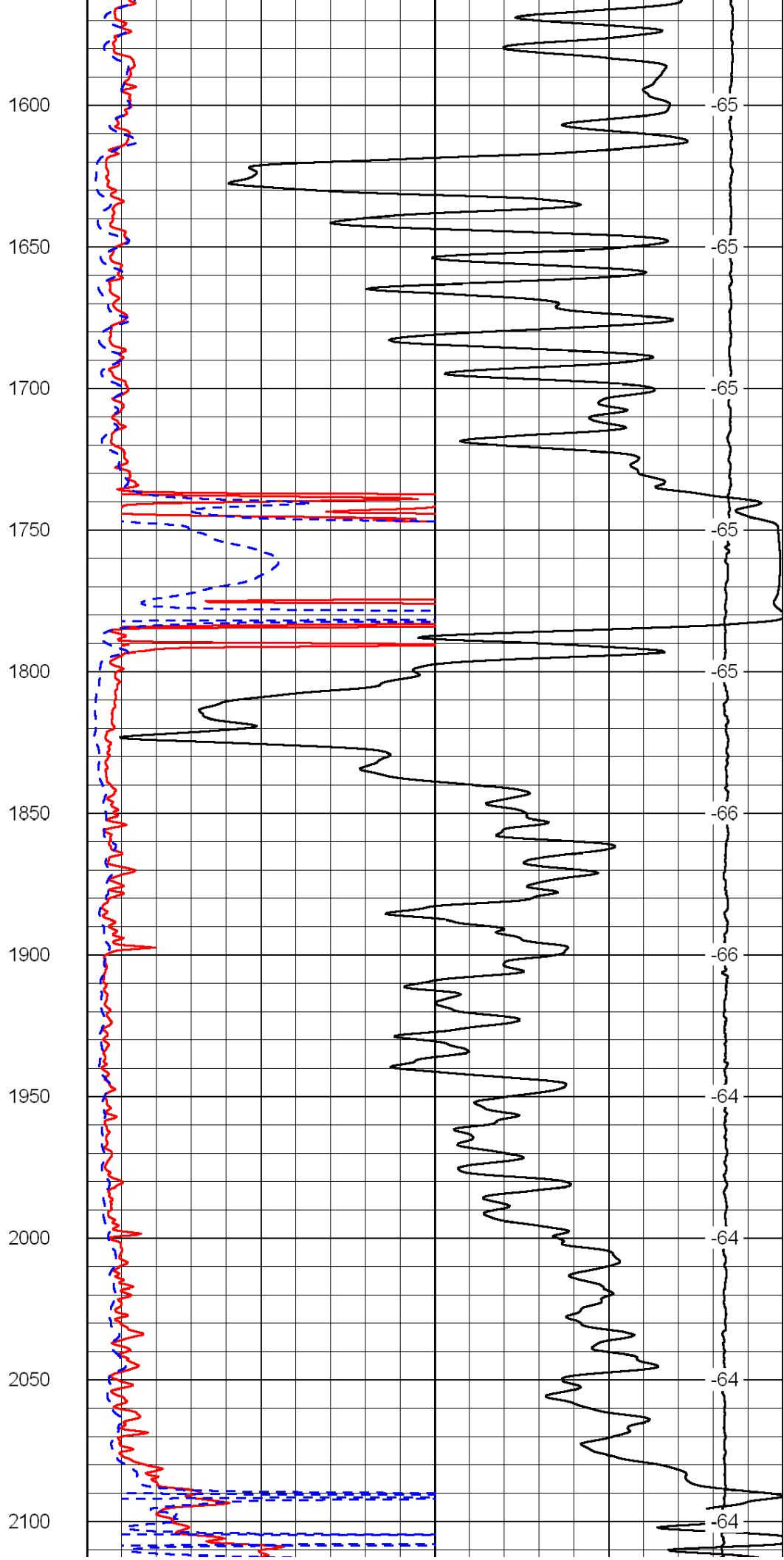
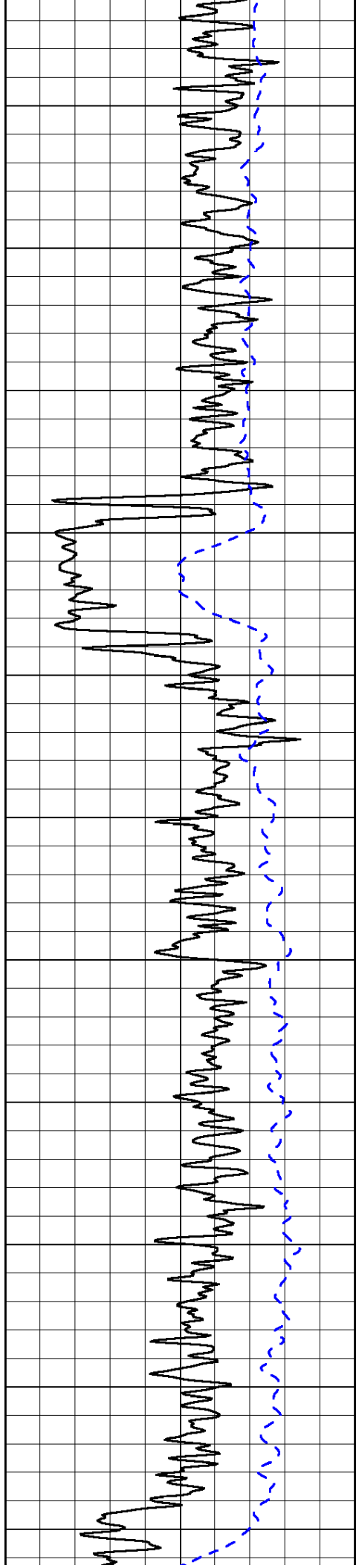


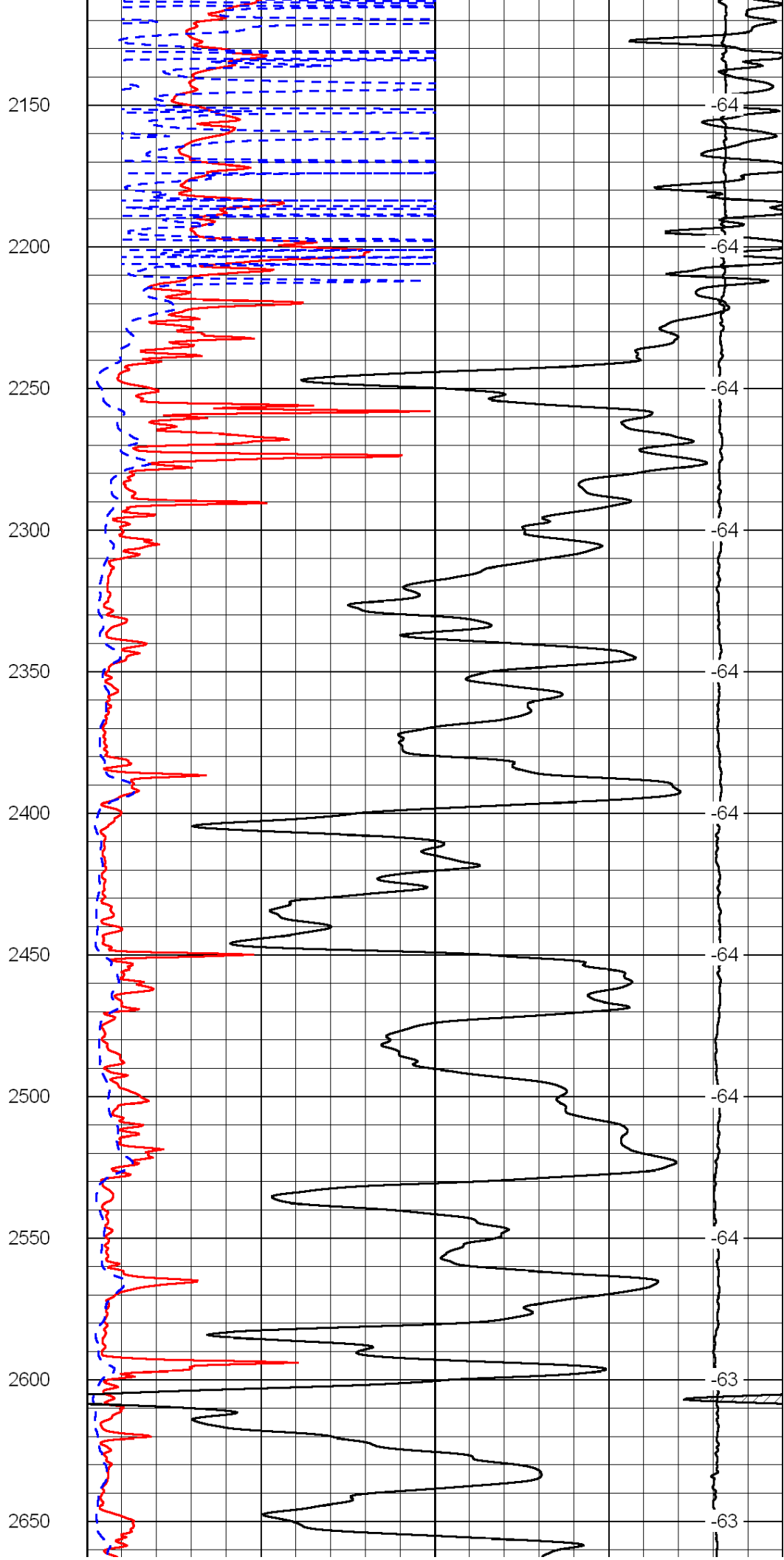
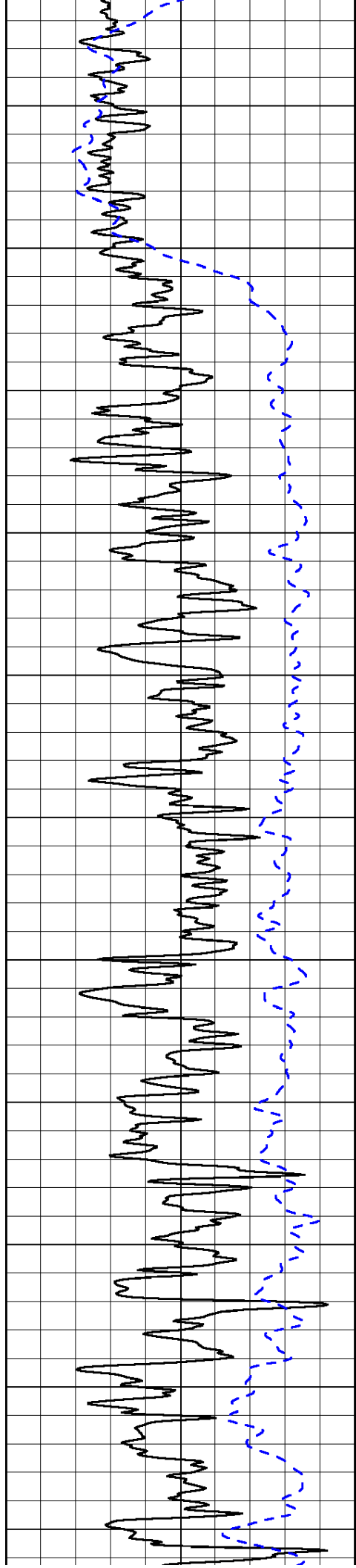
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50  
100  
150  
200  
250  
300  
350  
400  
450

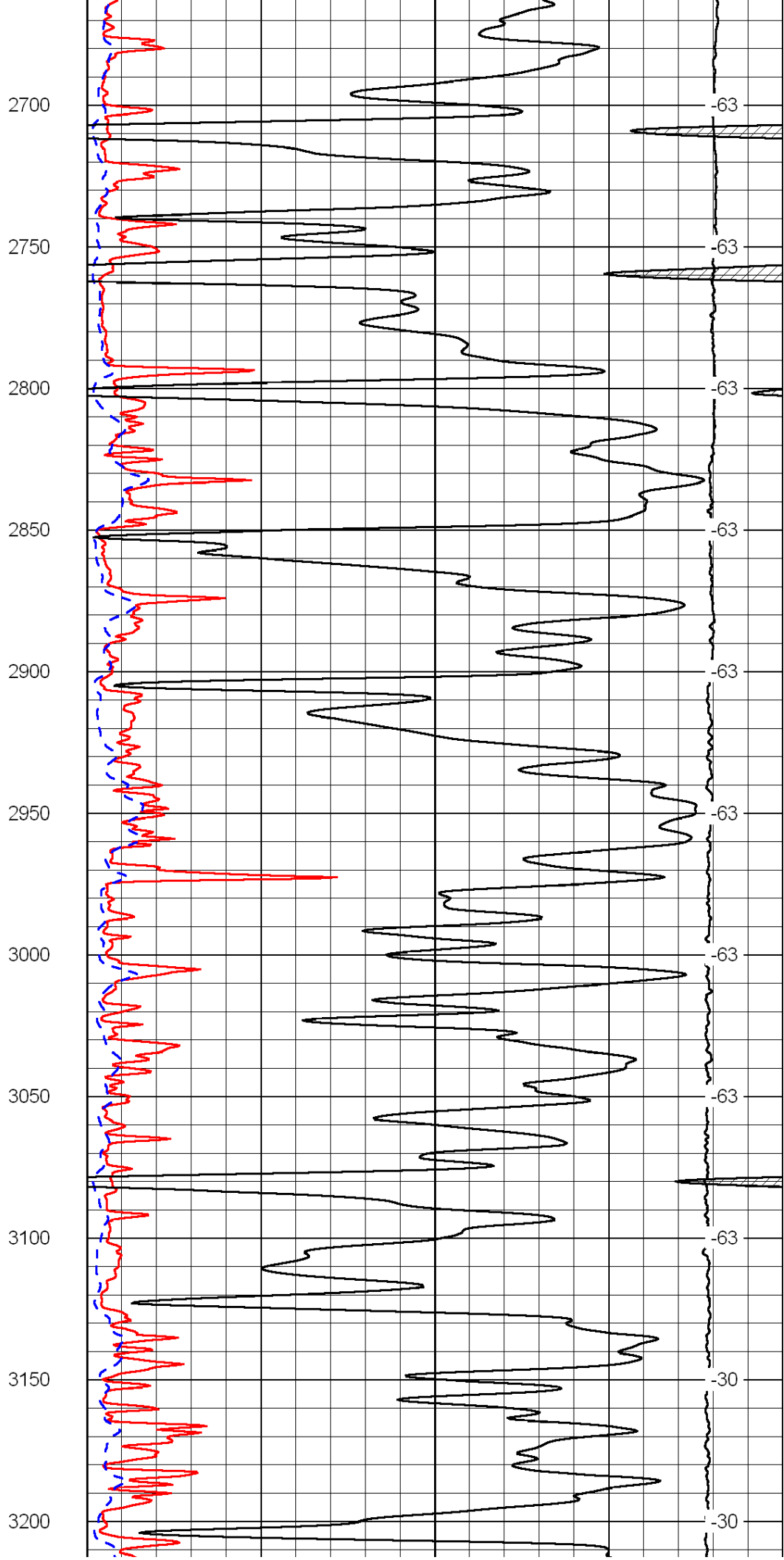
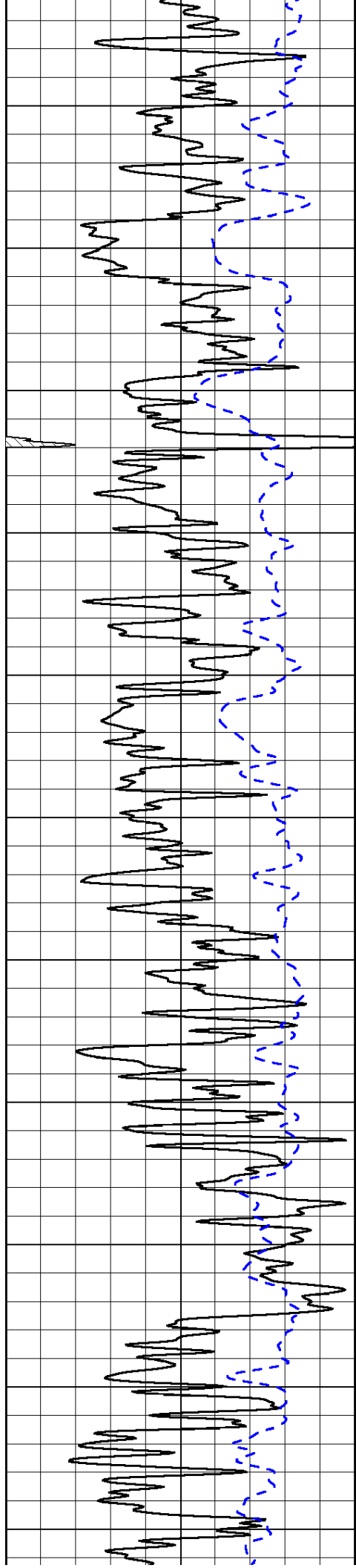
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-84  
-125  
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-40  
-68  
-68  
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-69

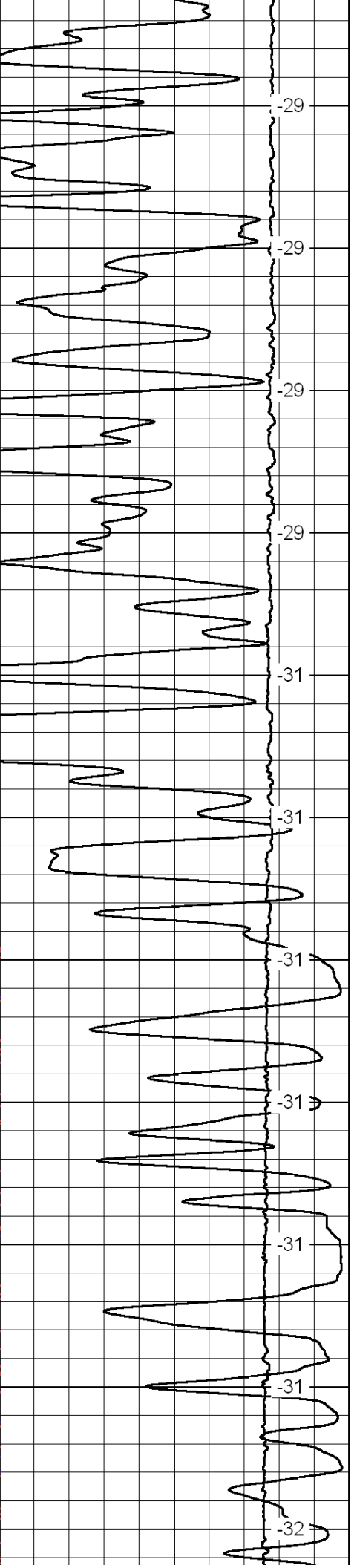
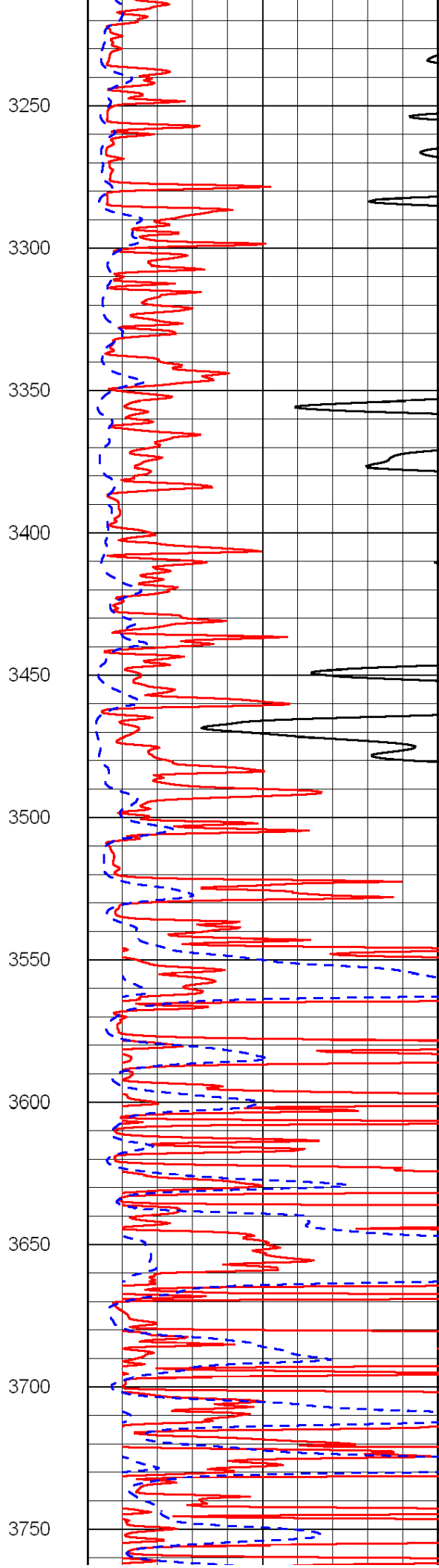
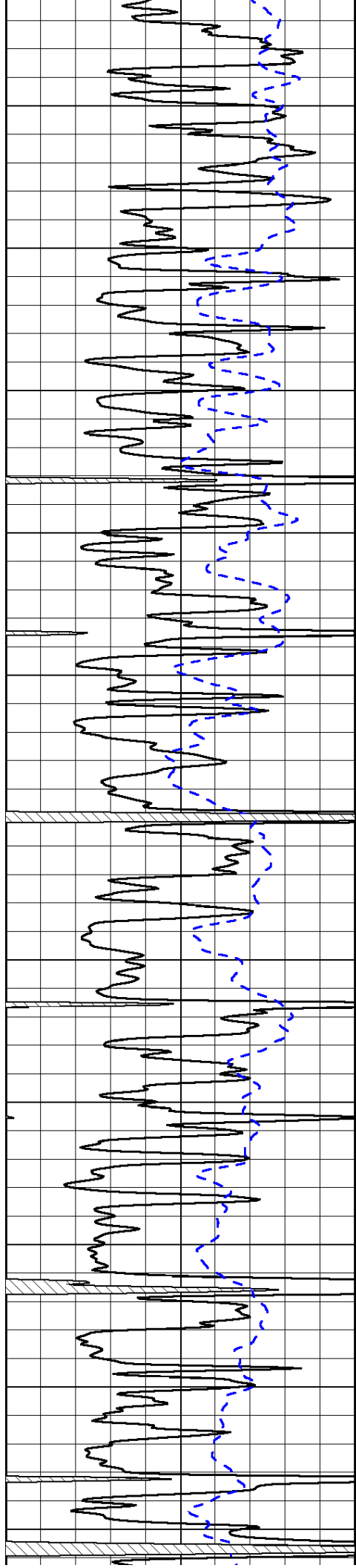


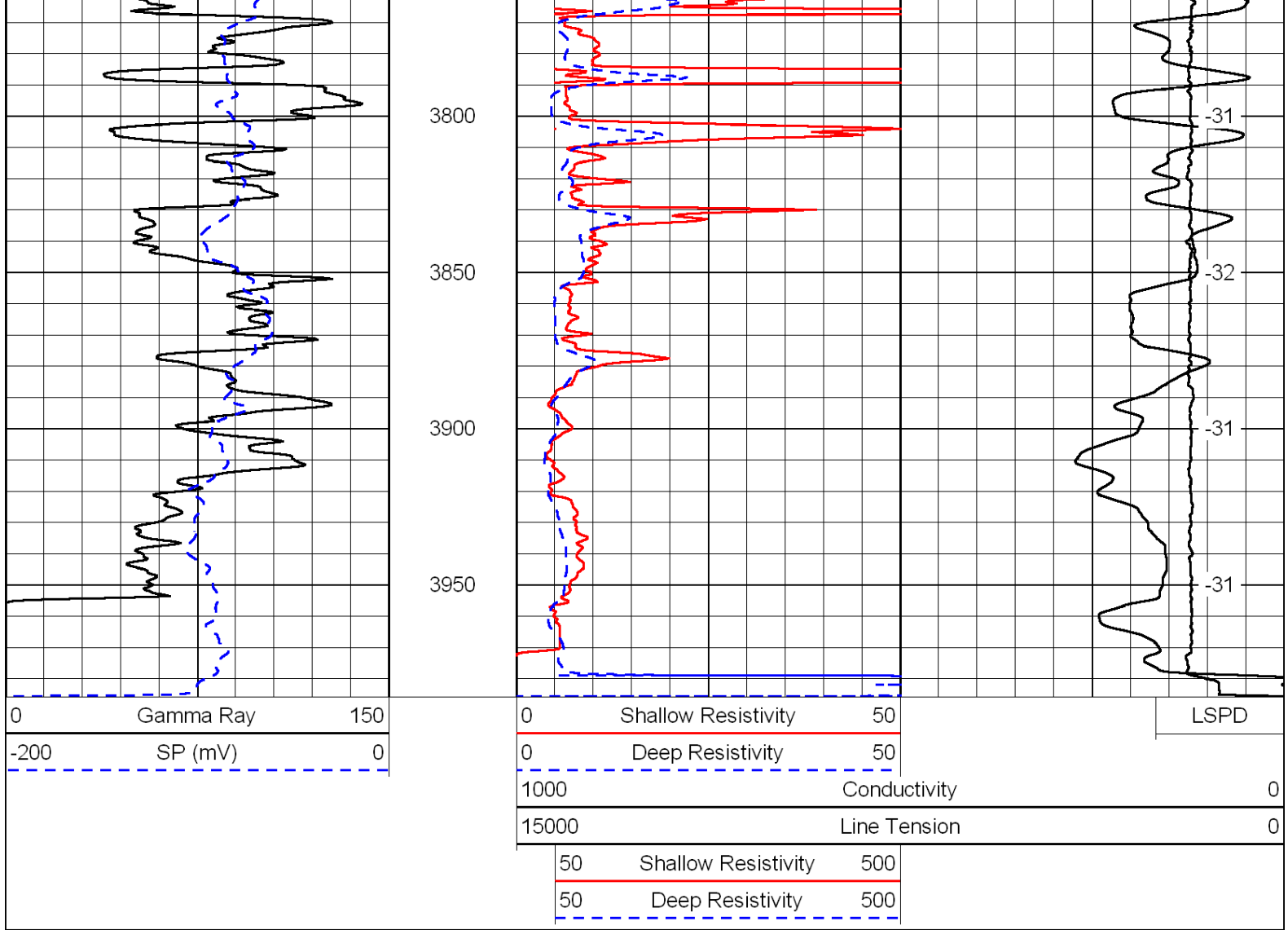




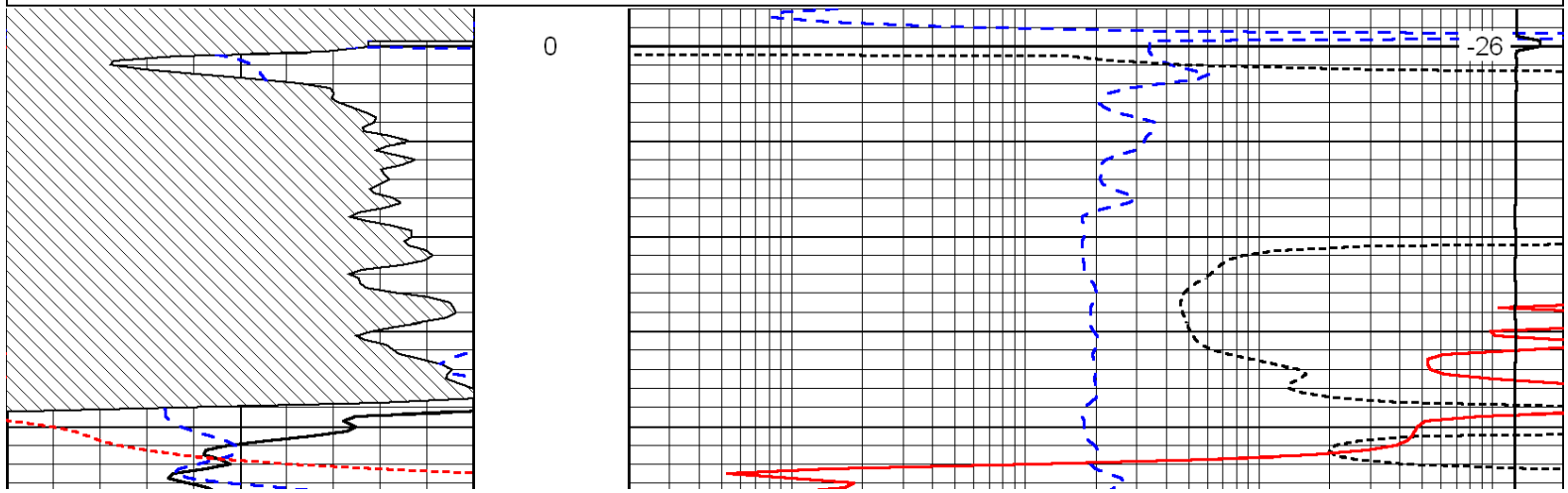
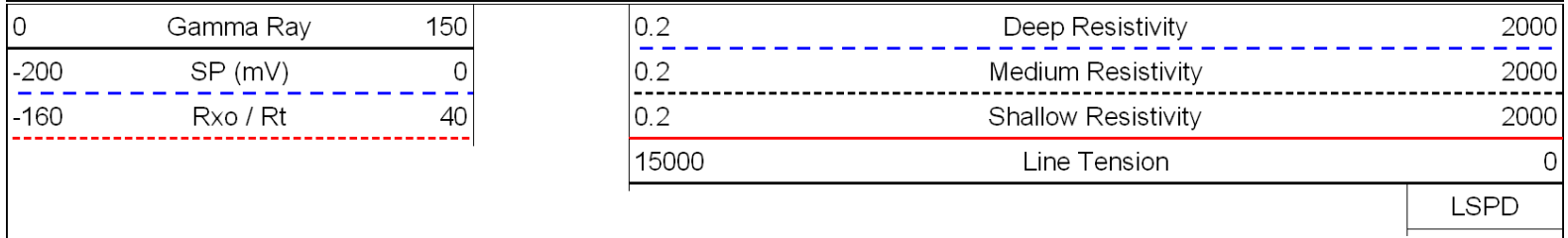


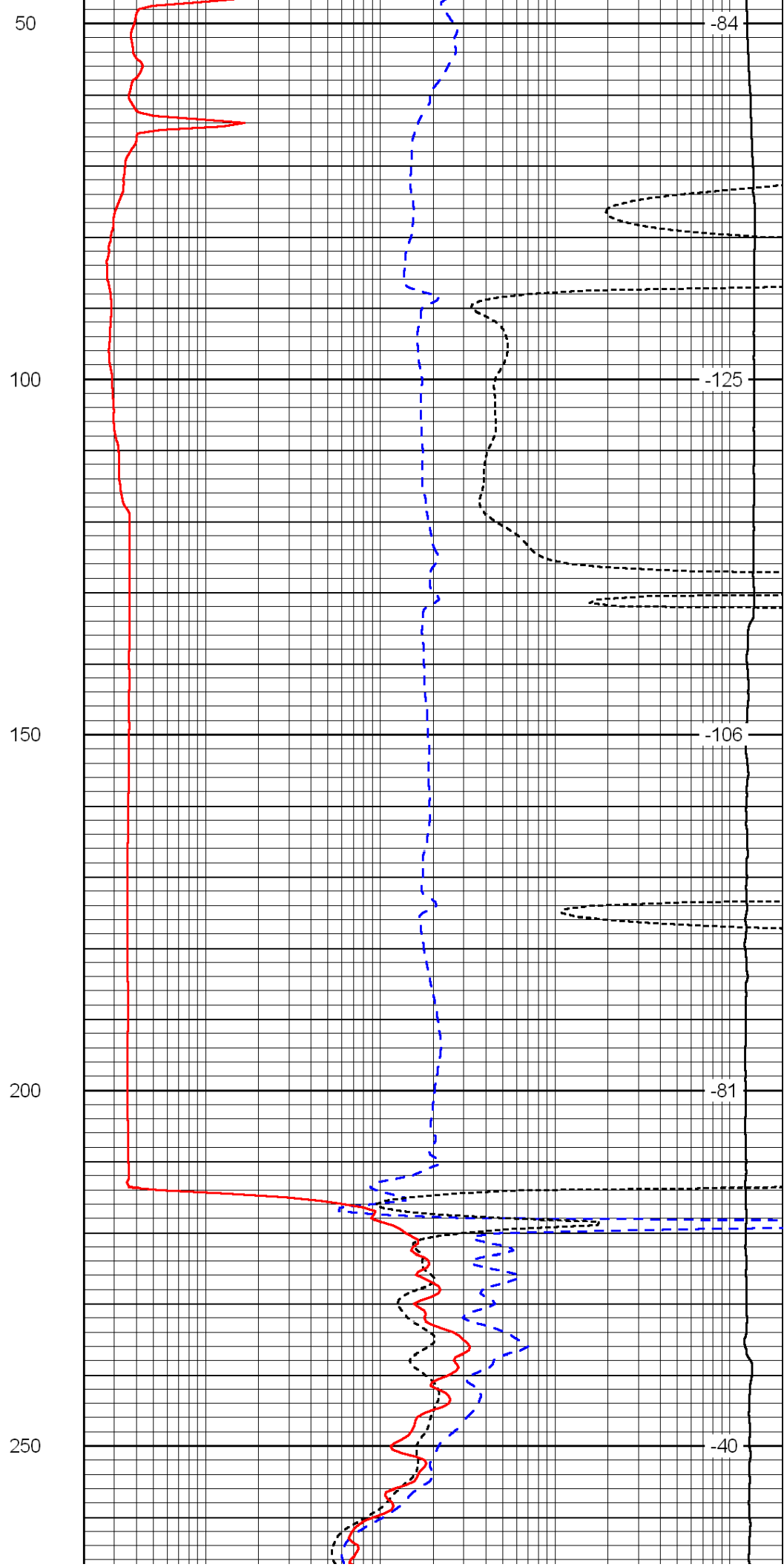
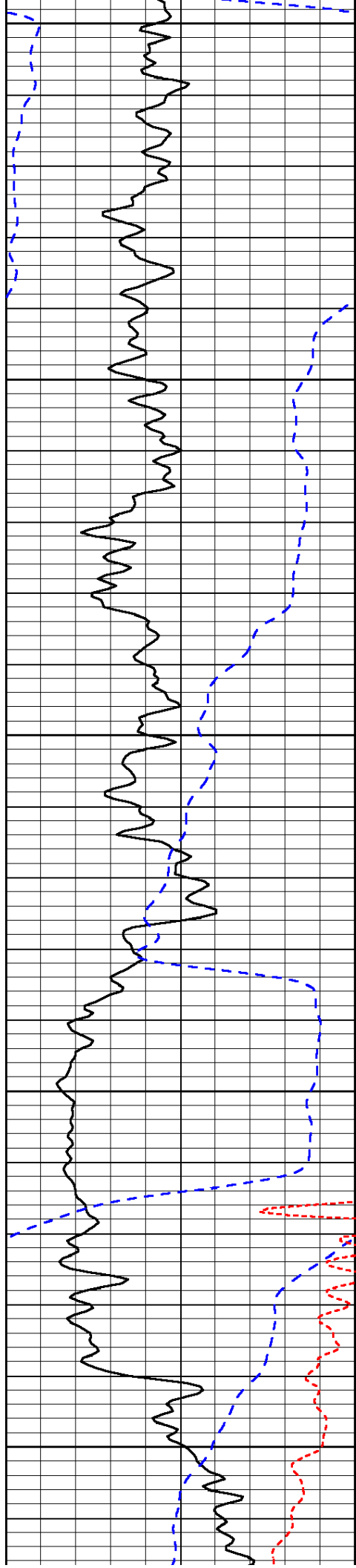


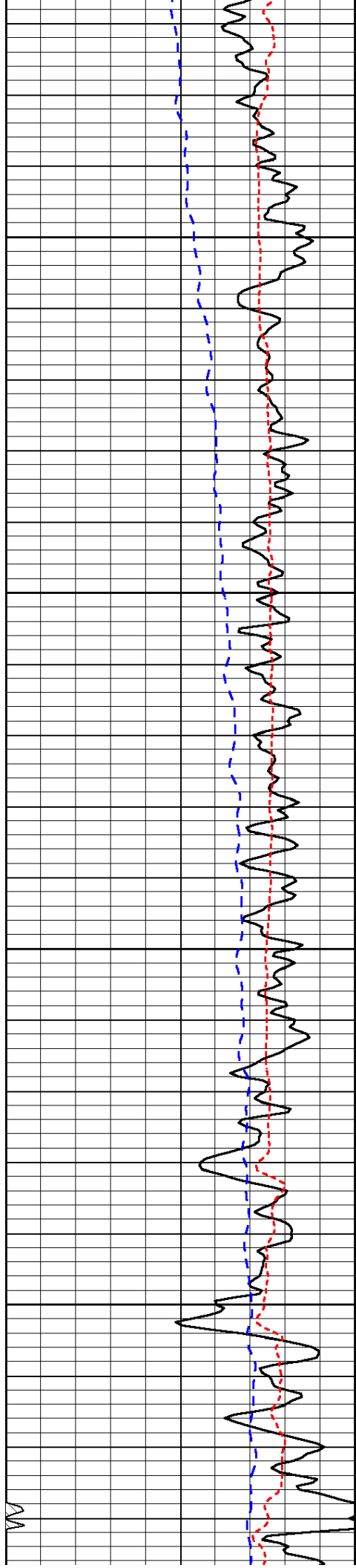




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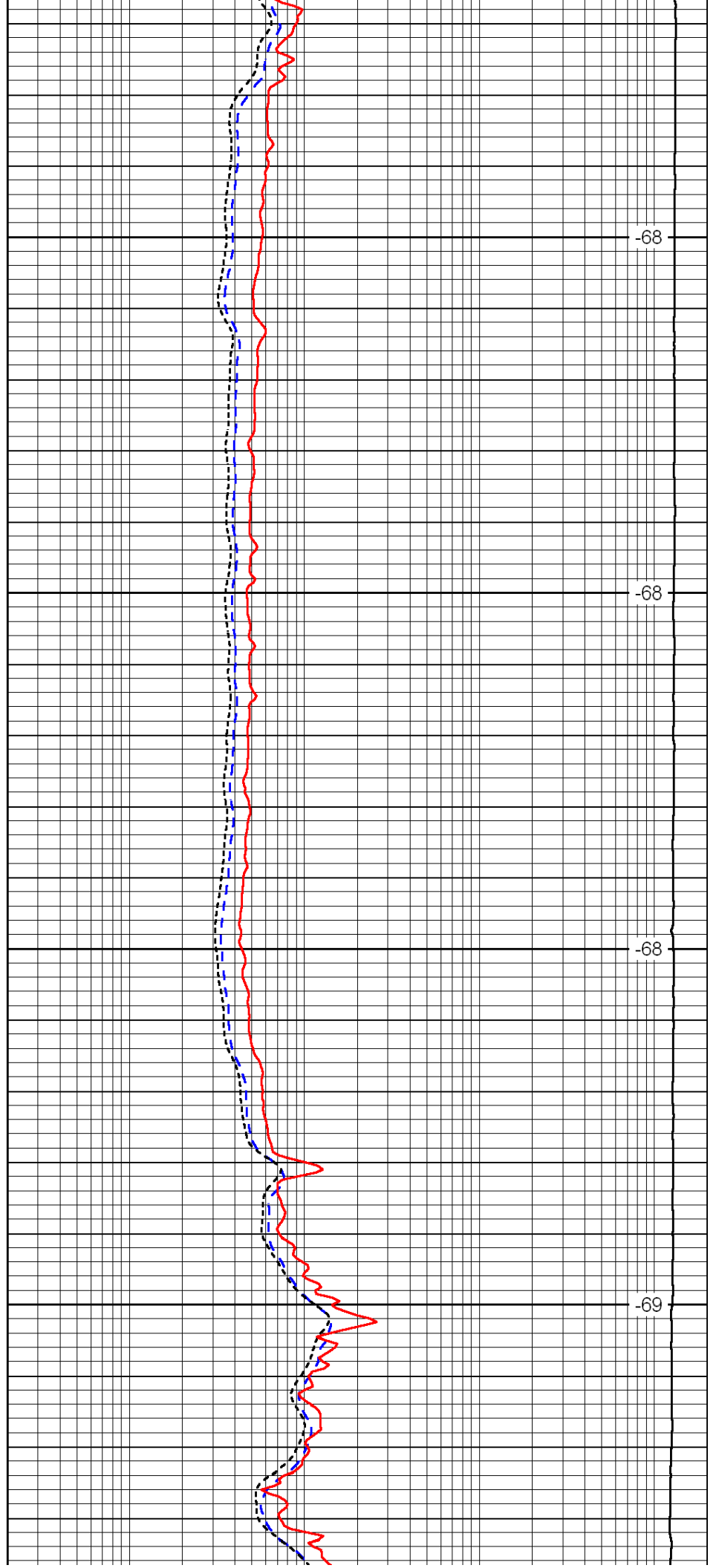


300

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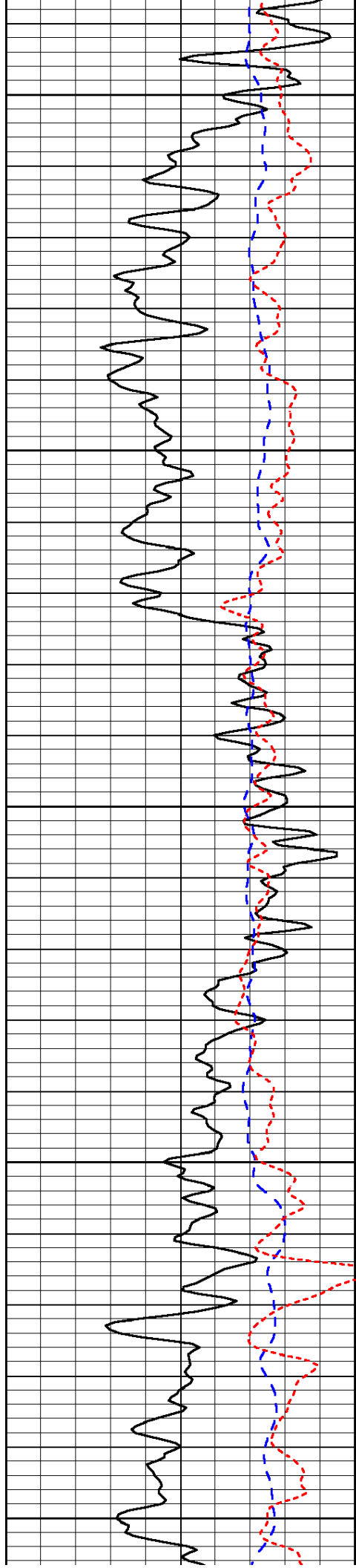


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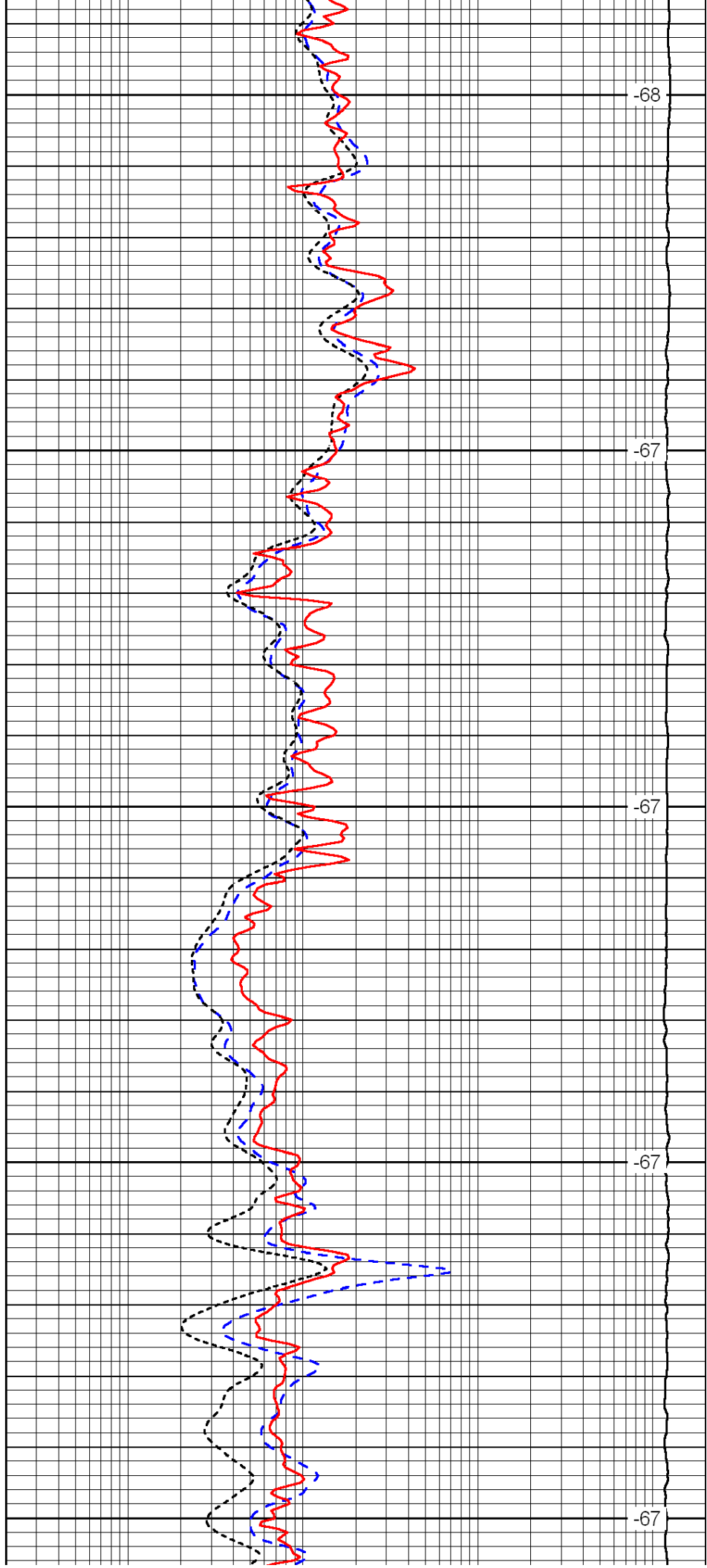
500

550

600

650

700



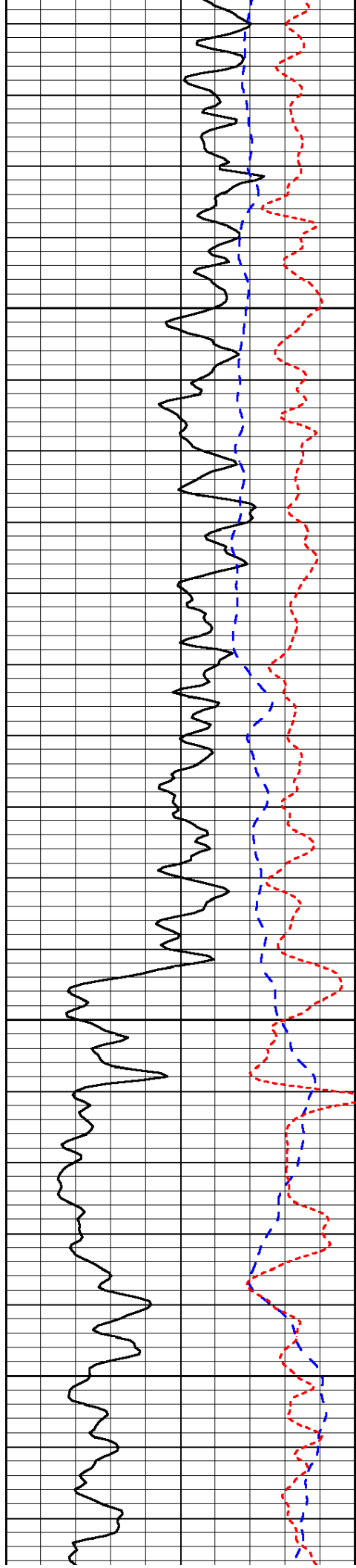
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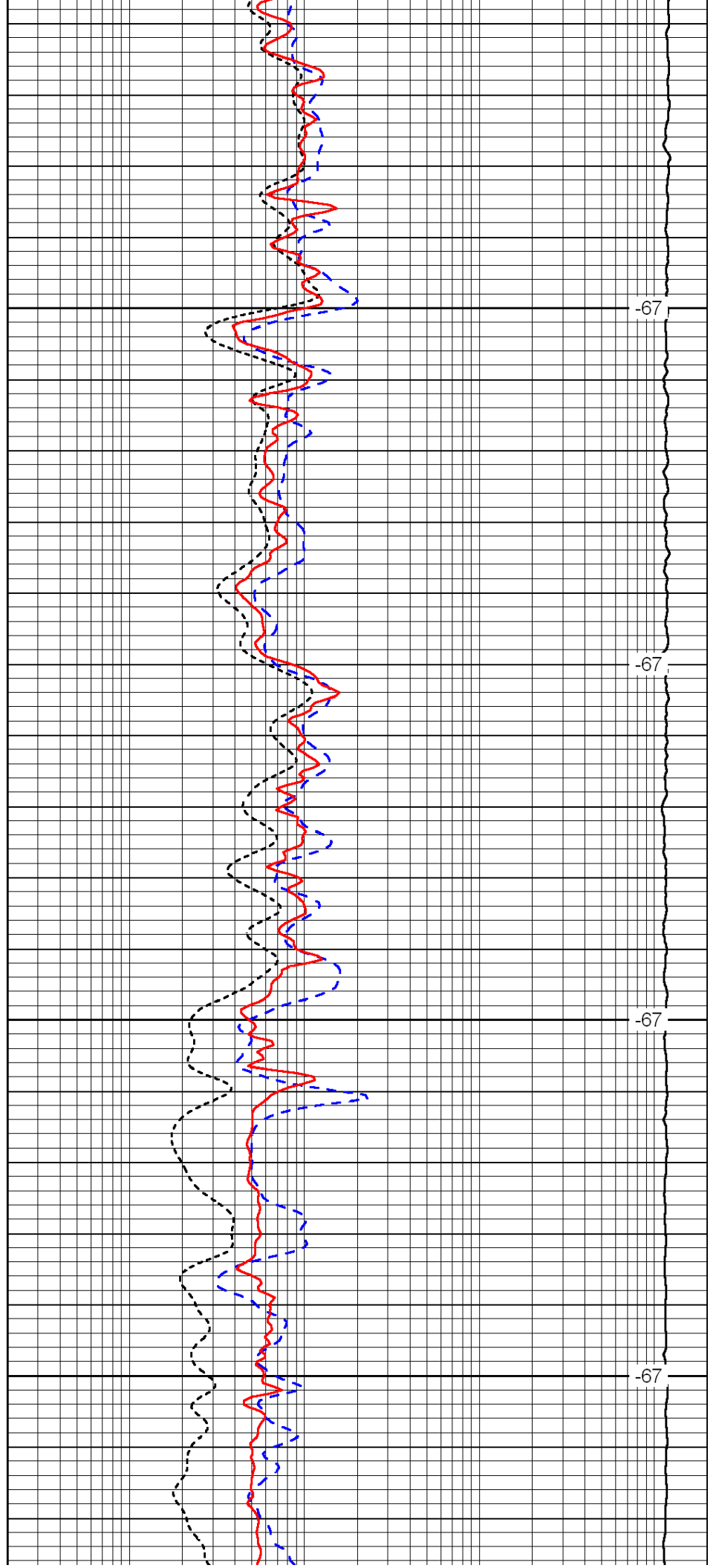


750

800

850

900

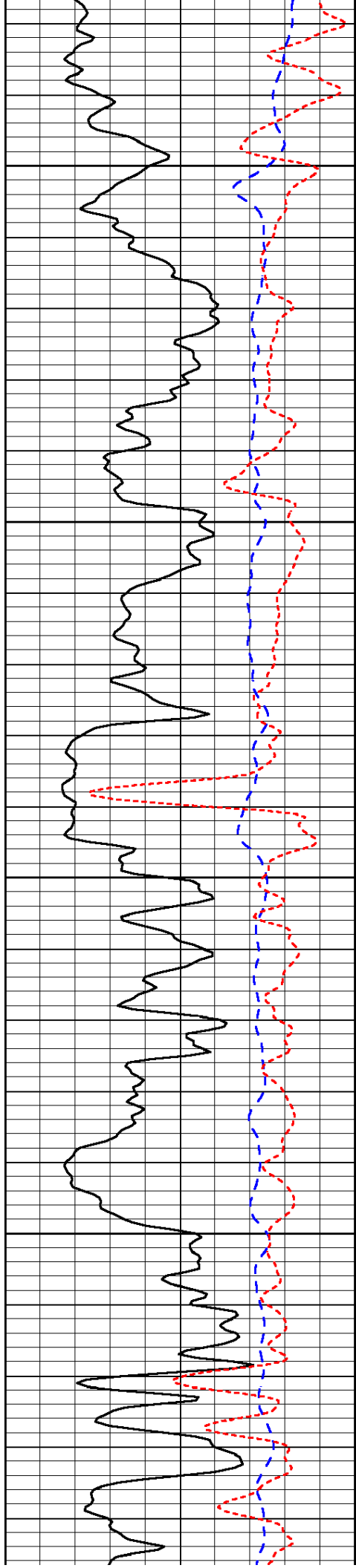


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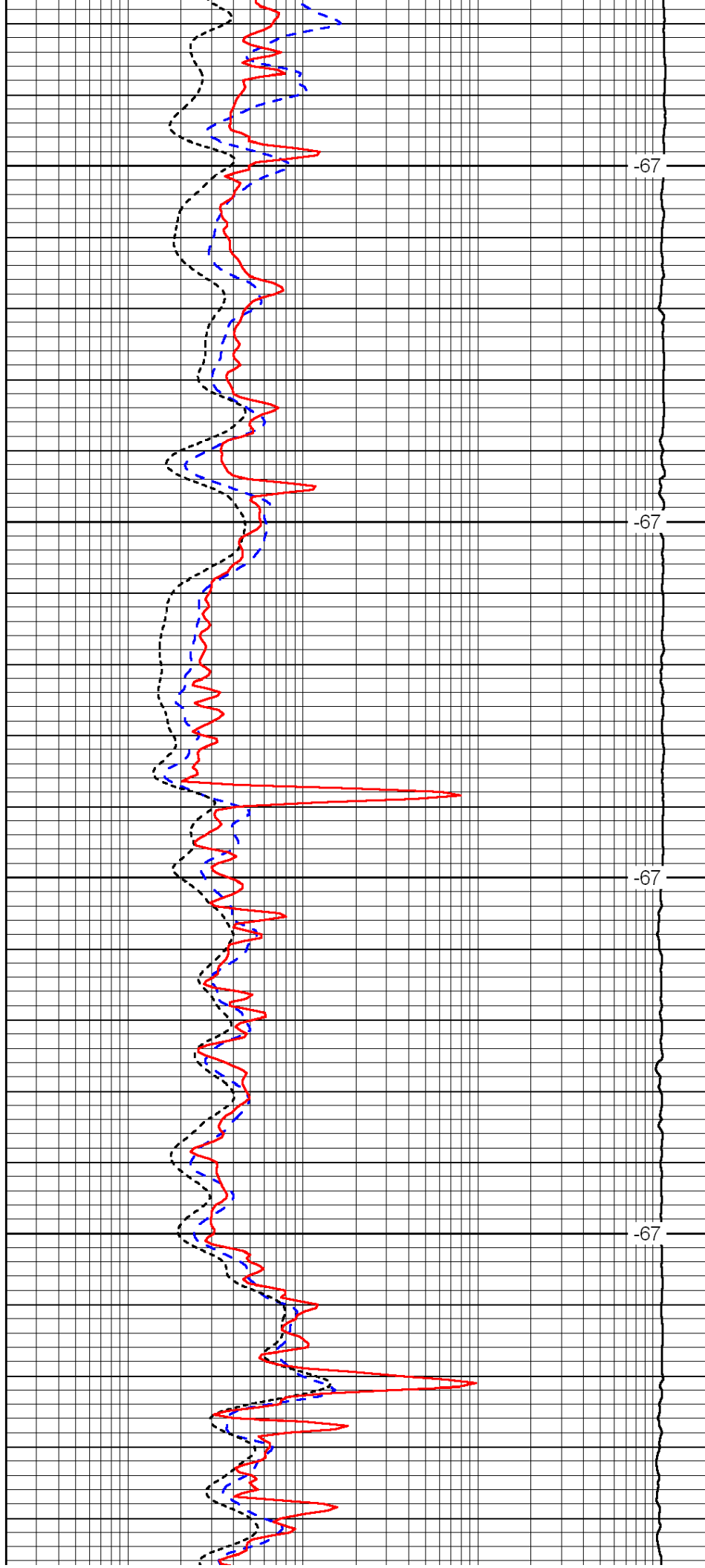


950

1000

1050

1100

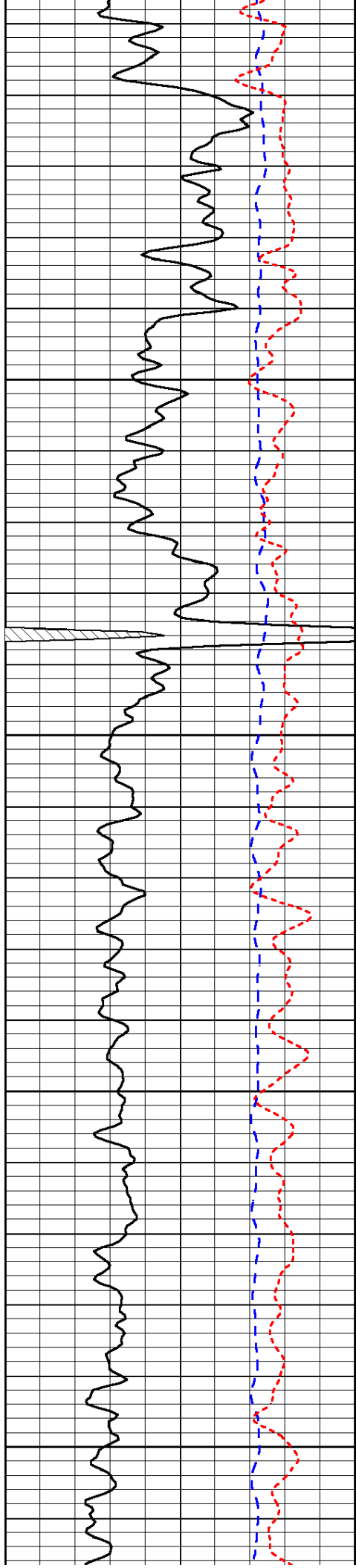


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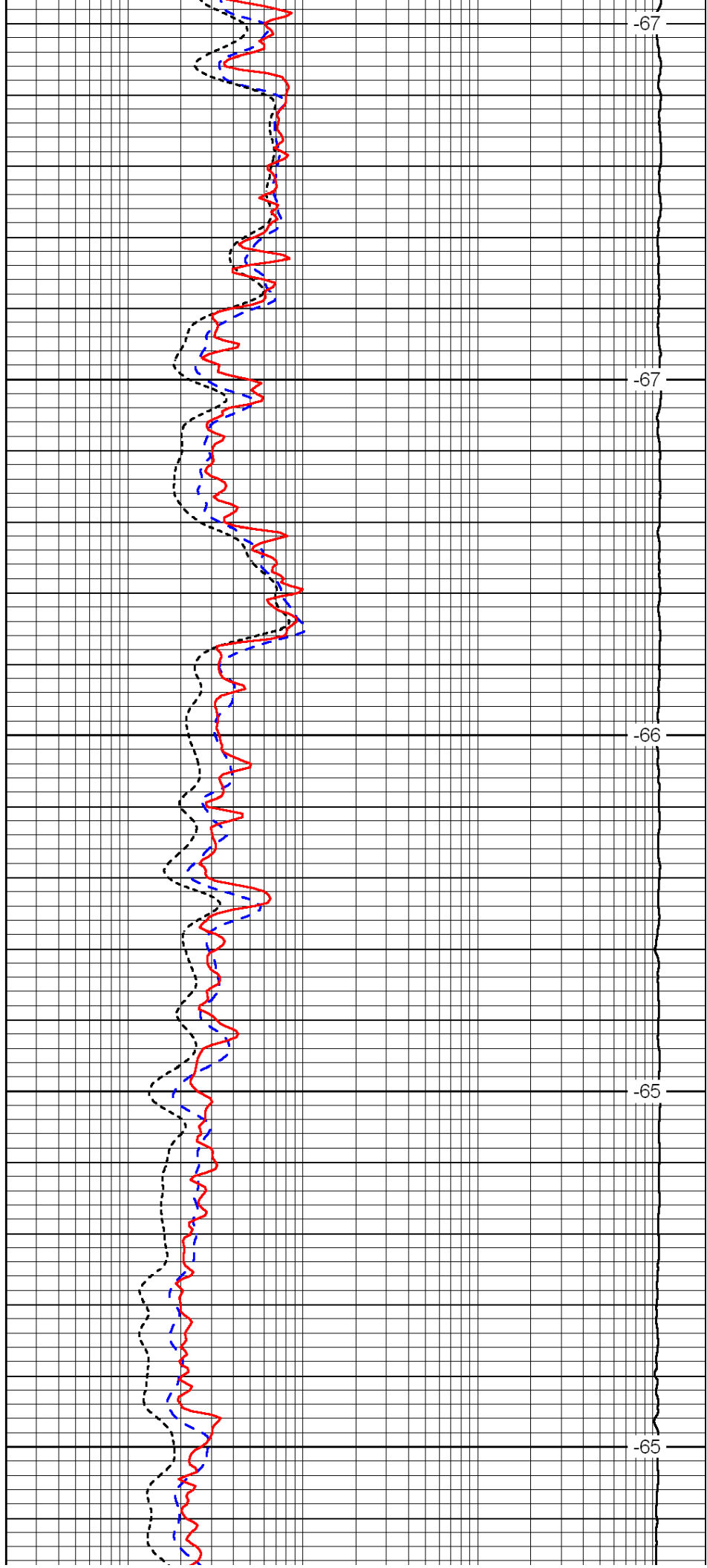
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1200

1250

1300

1350



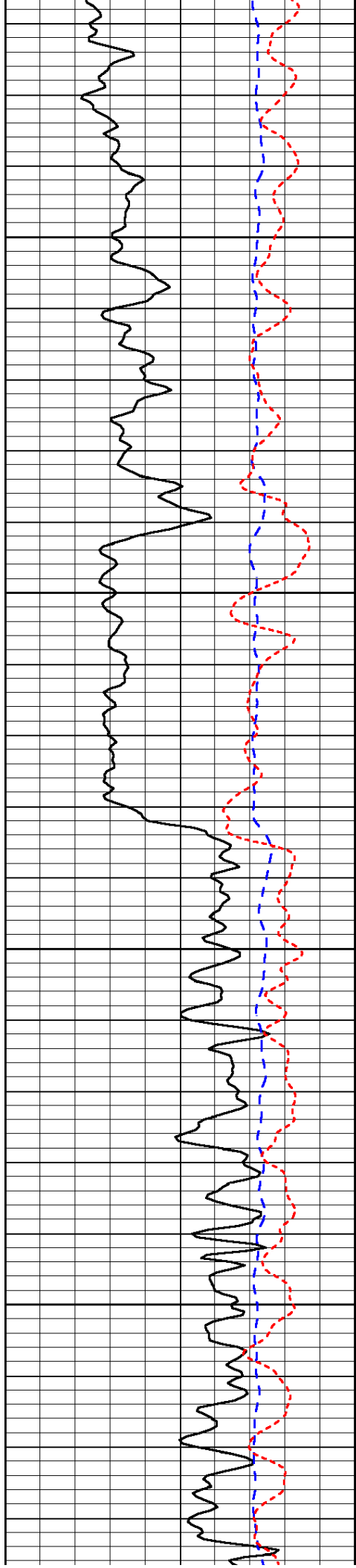
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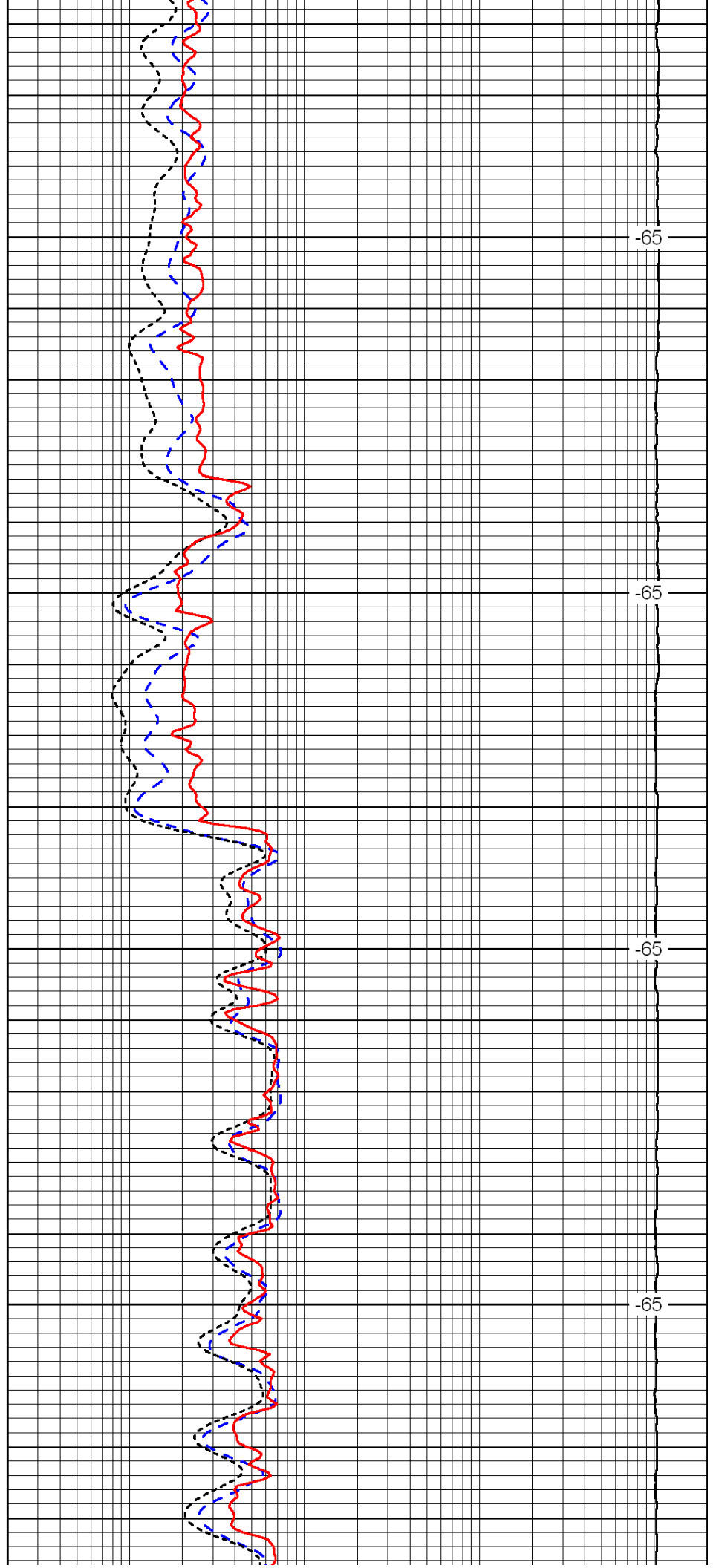


1400

1450

1500

1550

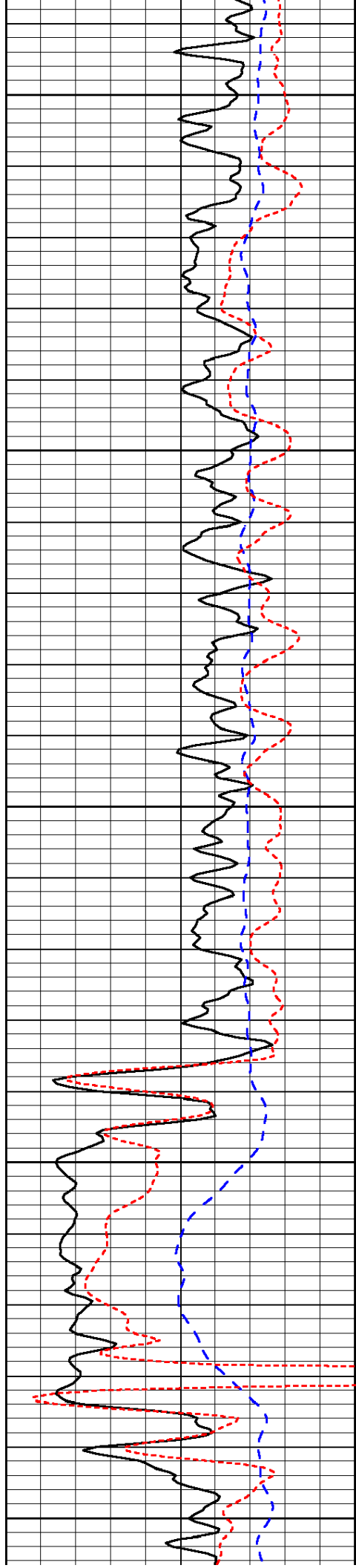


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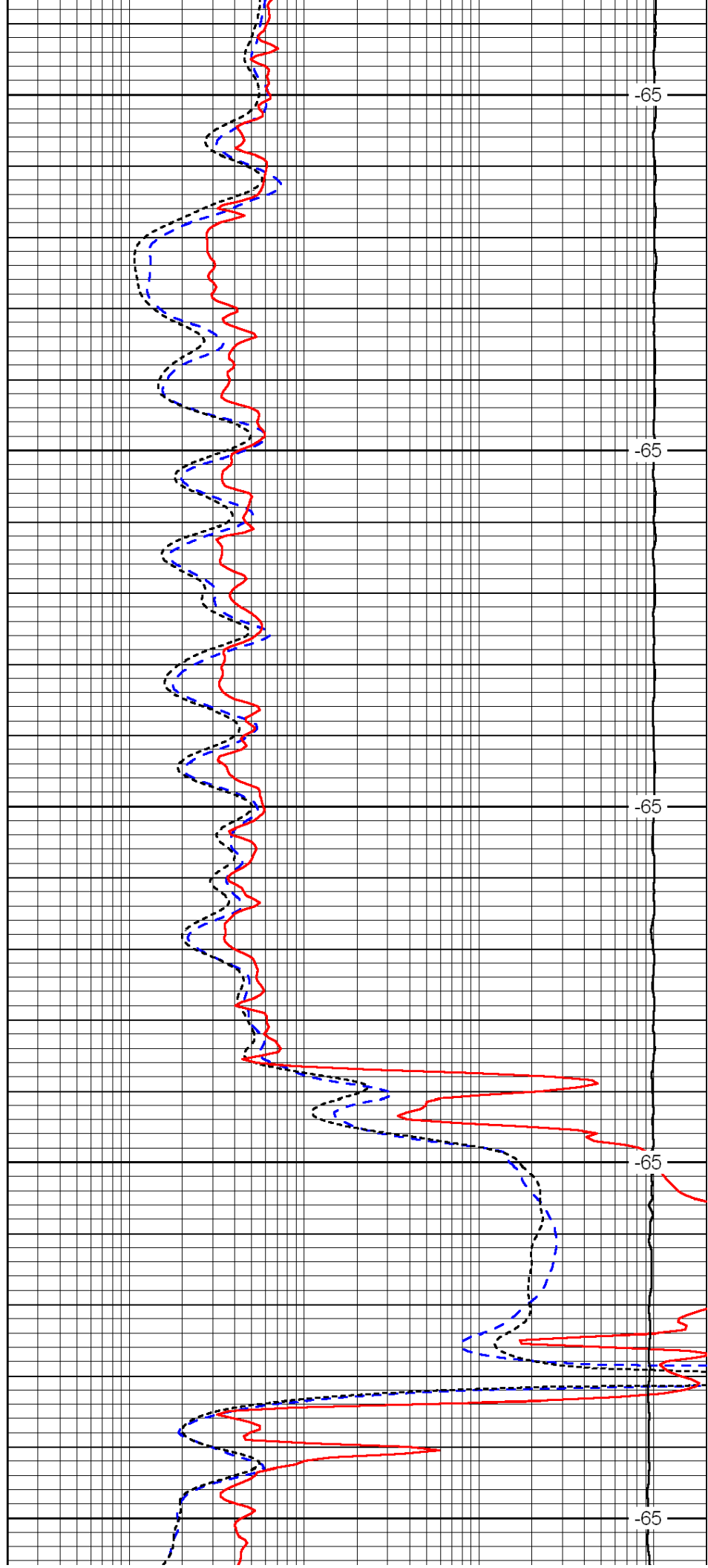
1600

1650

1700

1750

1800



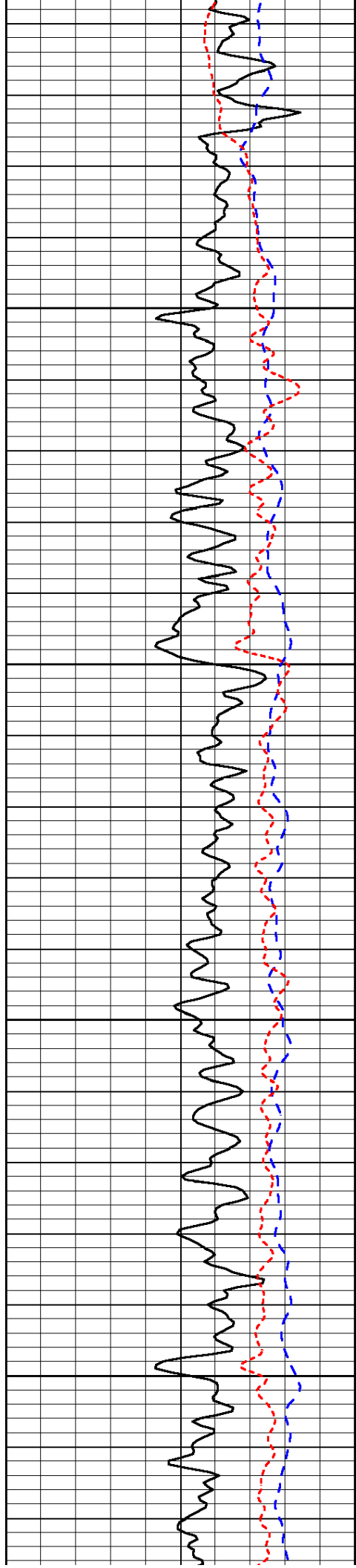
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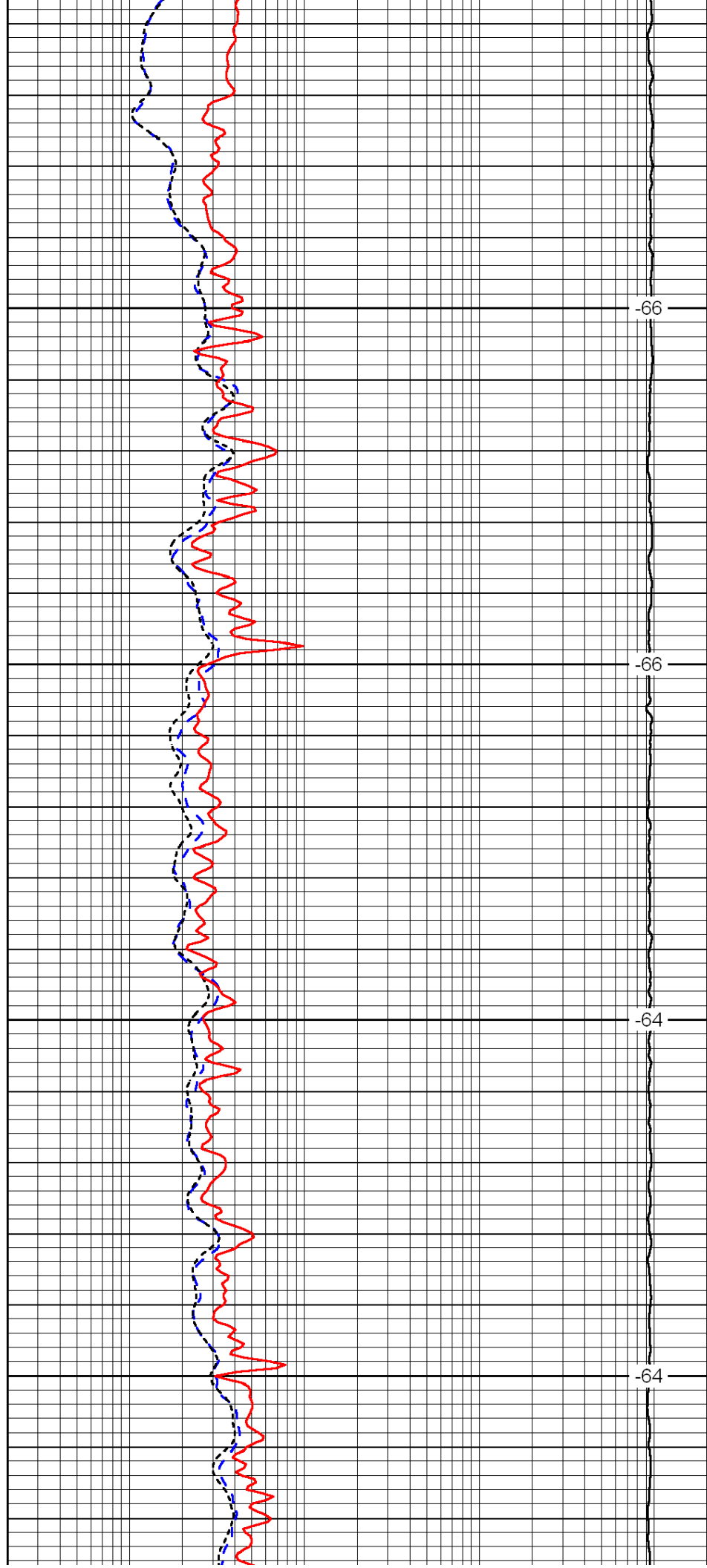


1850

1900

1950

2000

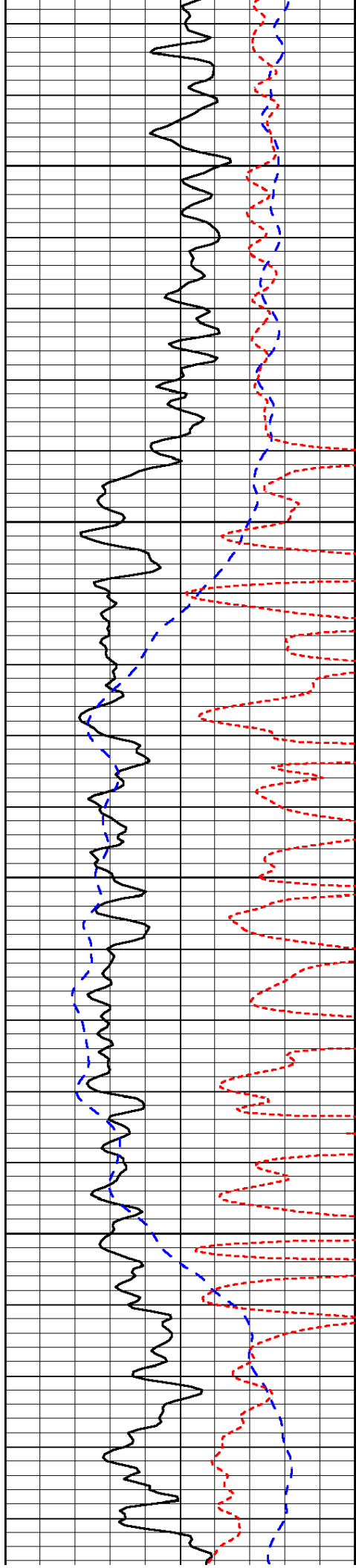


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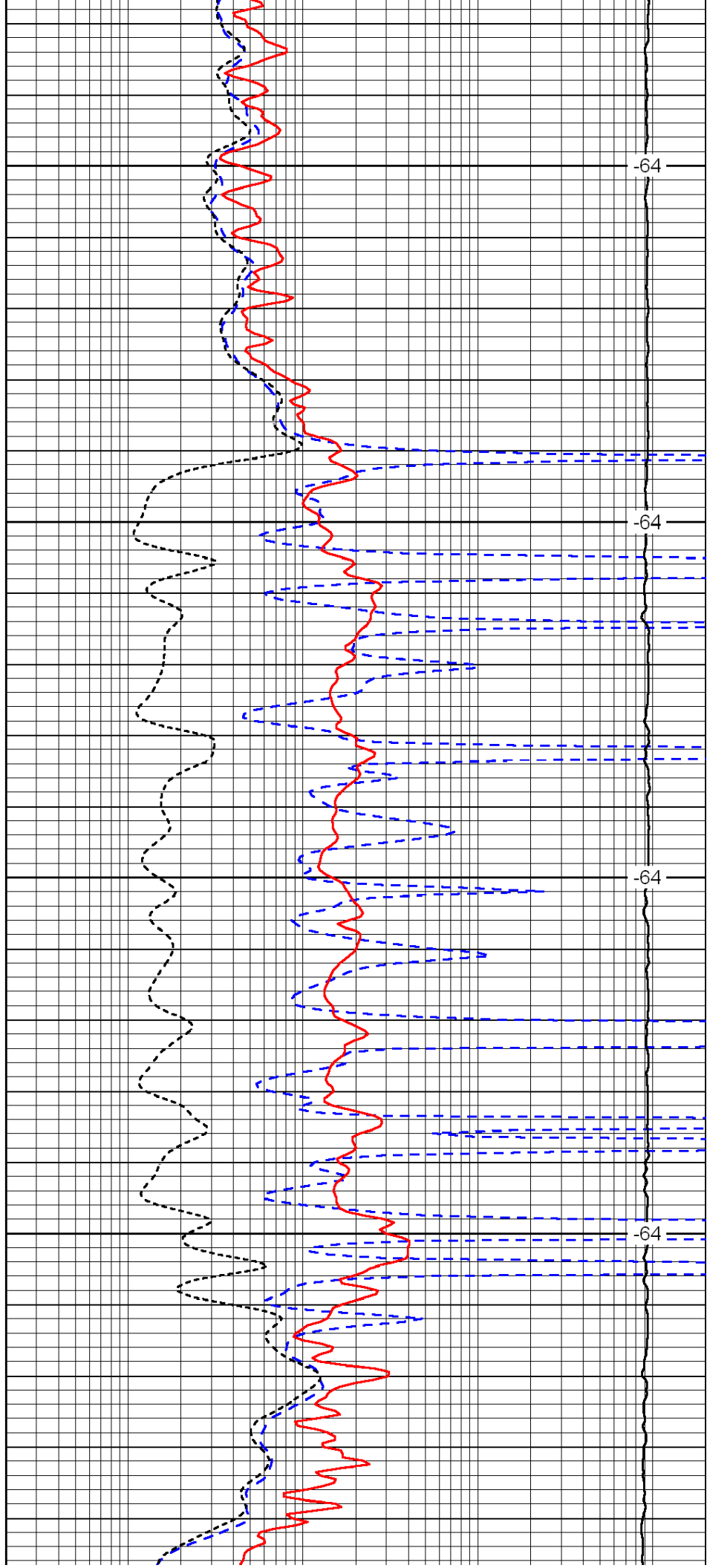


2050

2100

2150

2200

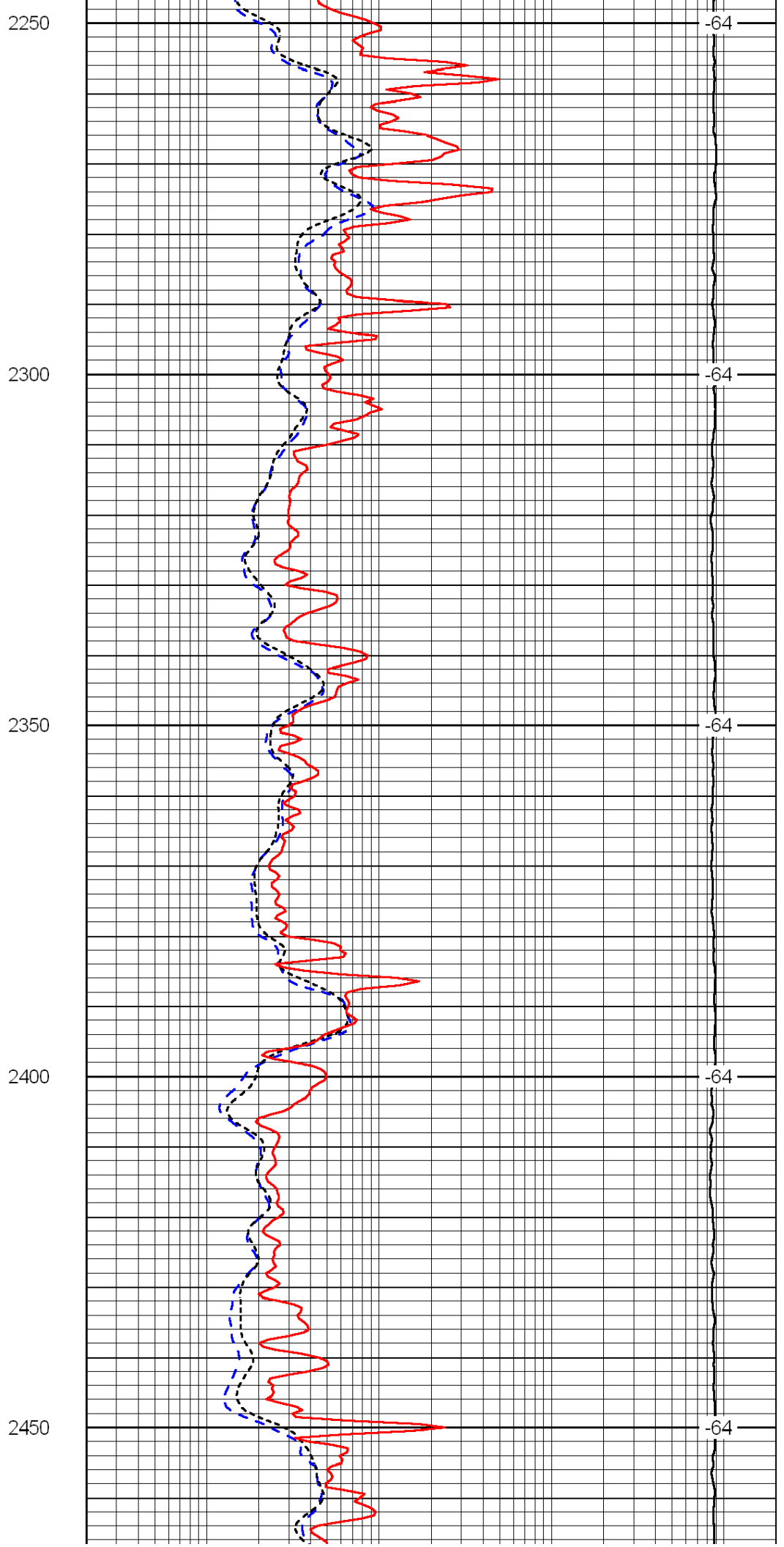
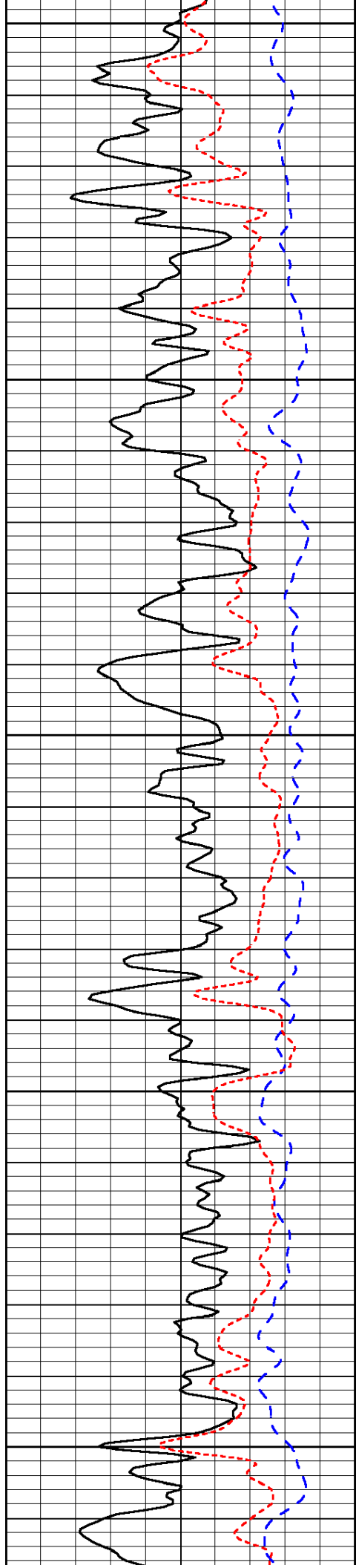


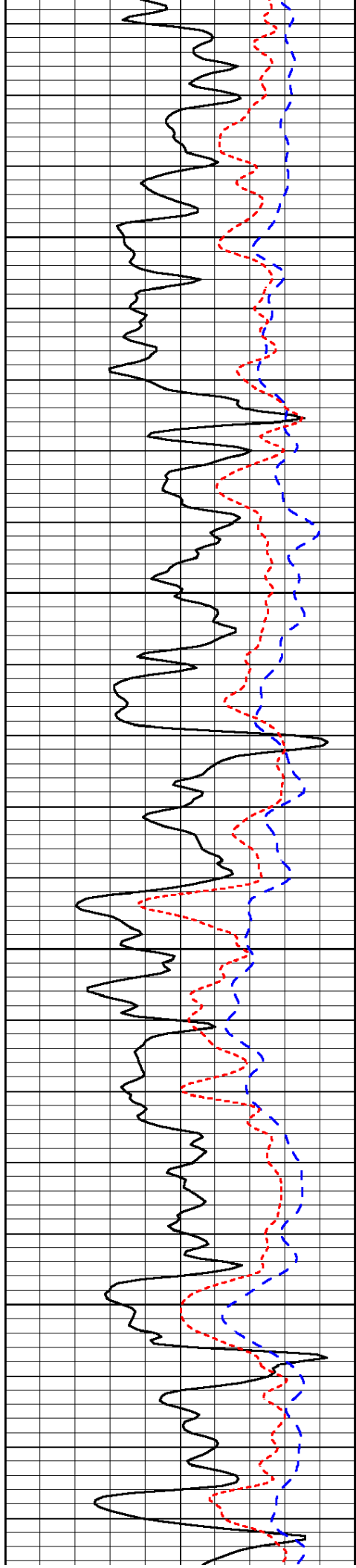
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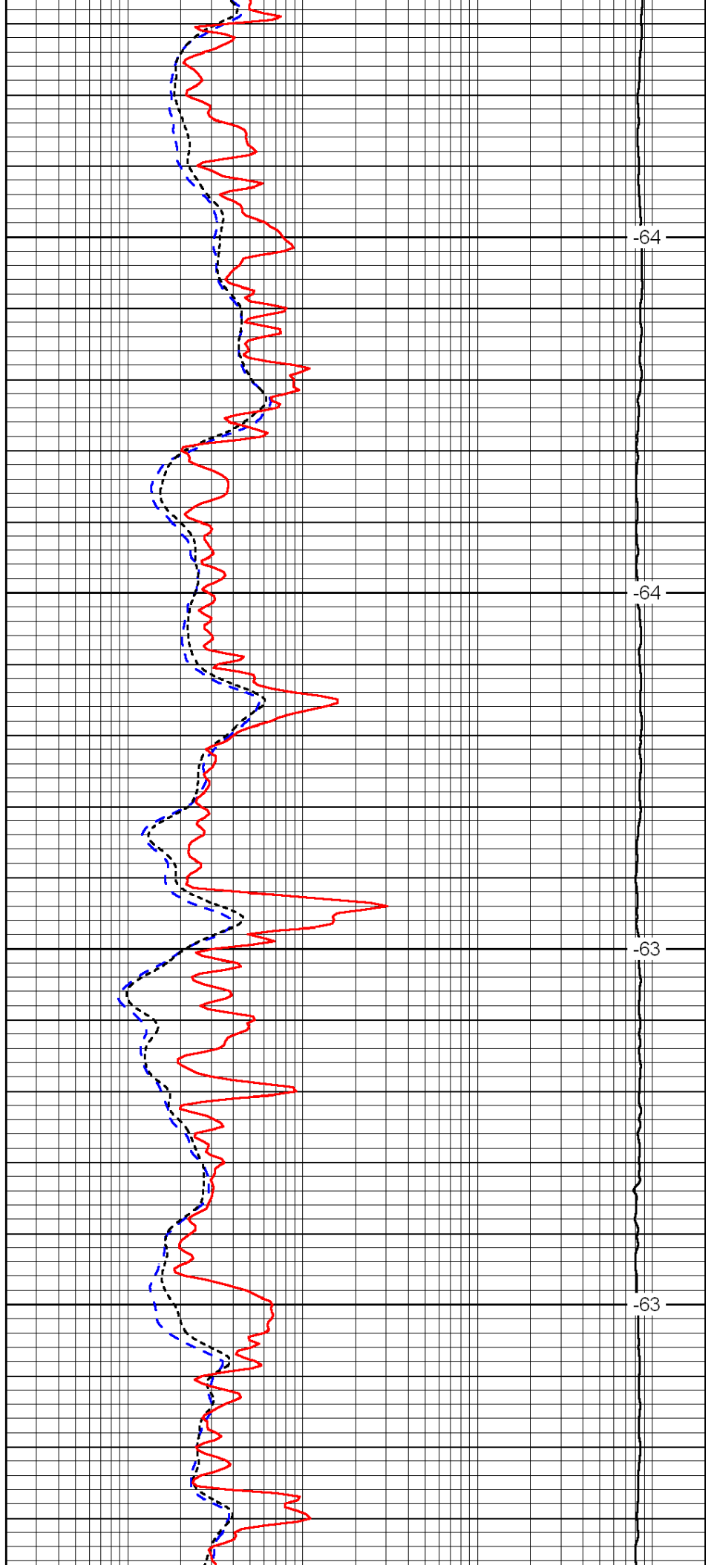


2500

2550

2600

2650

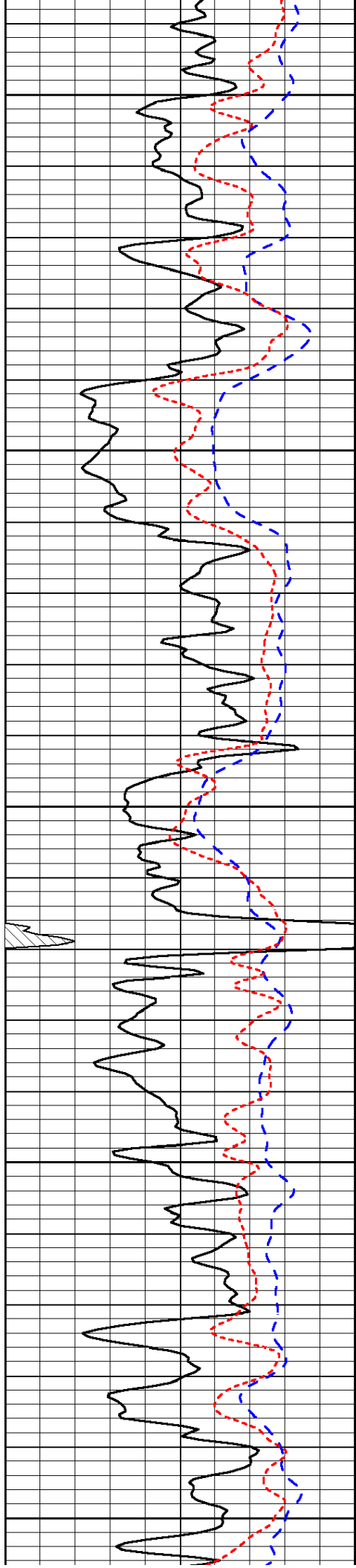


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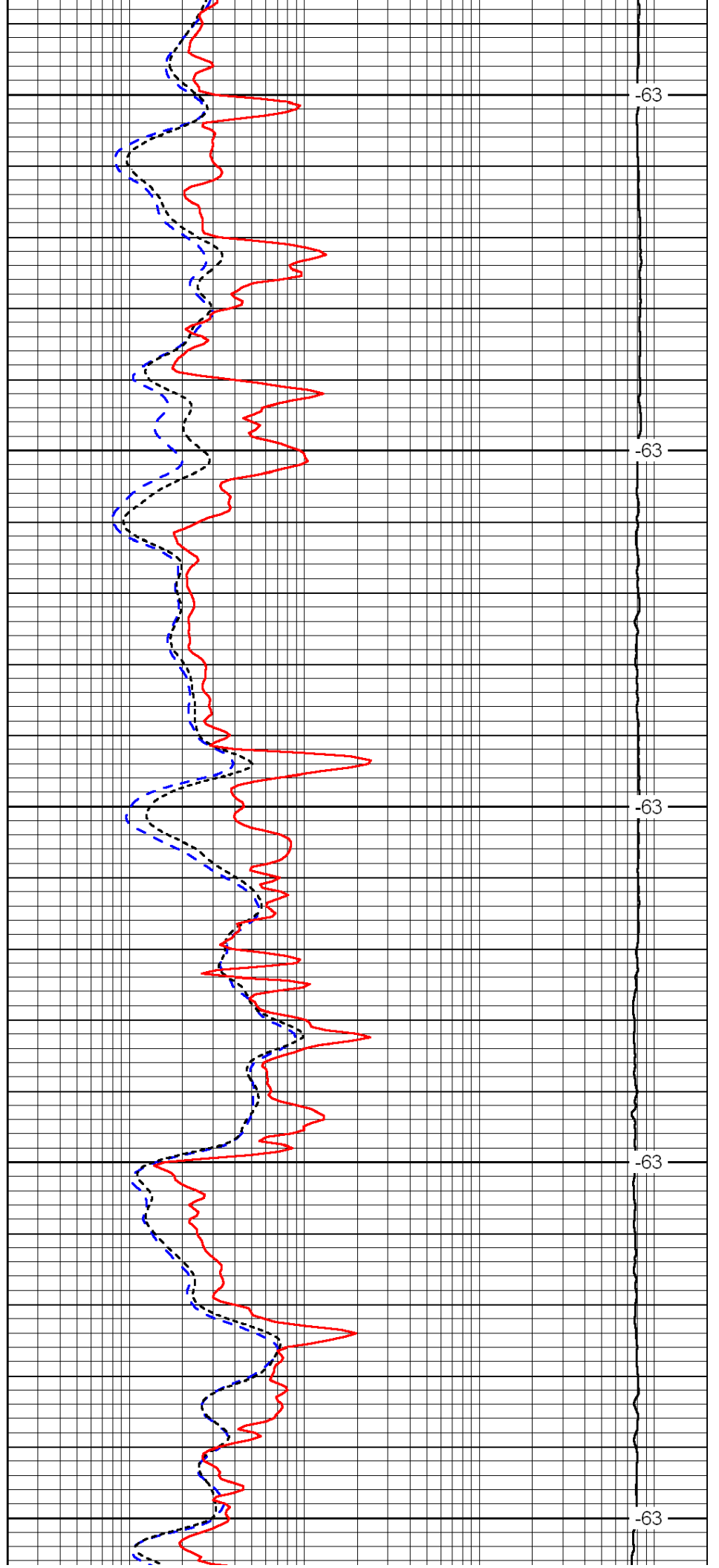
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2750

2800

2850

2900



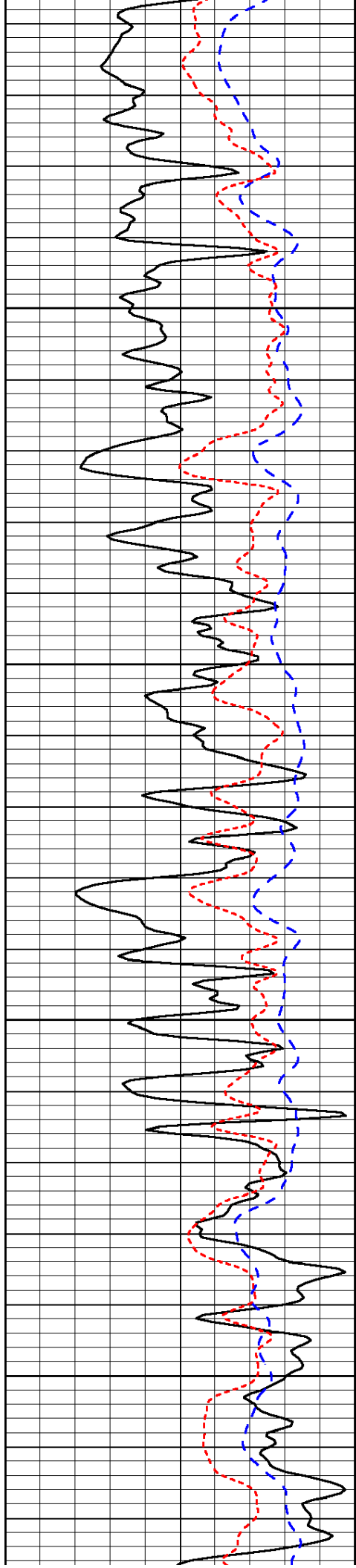
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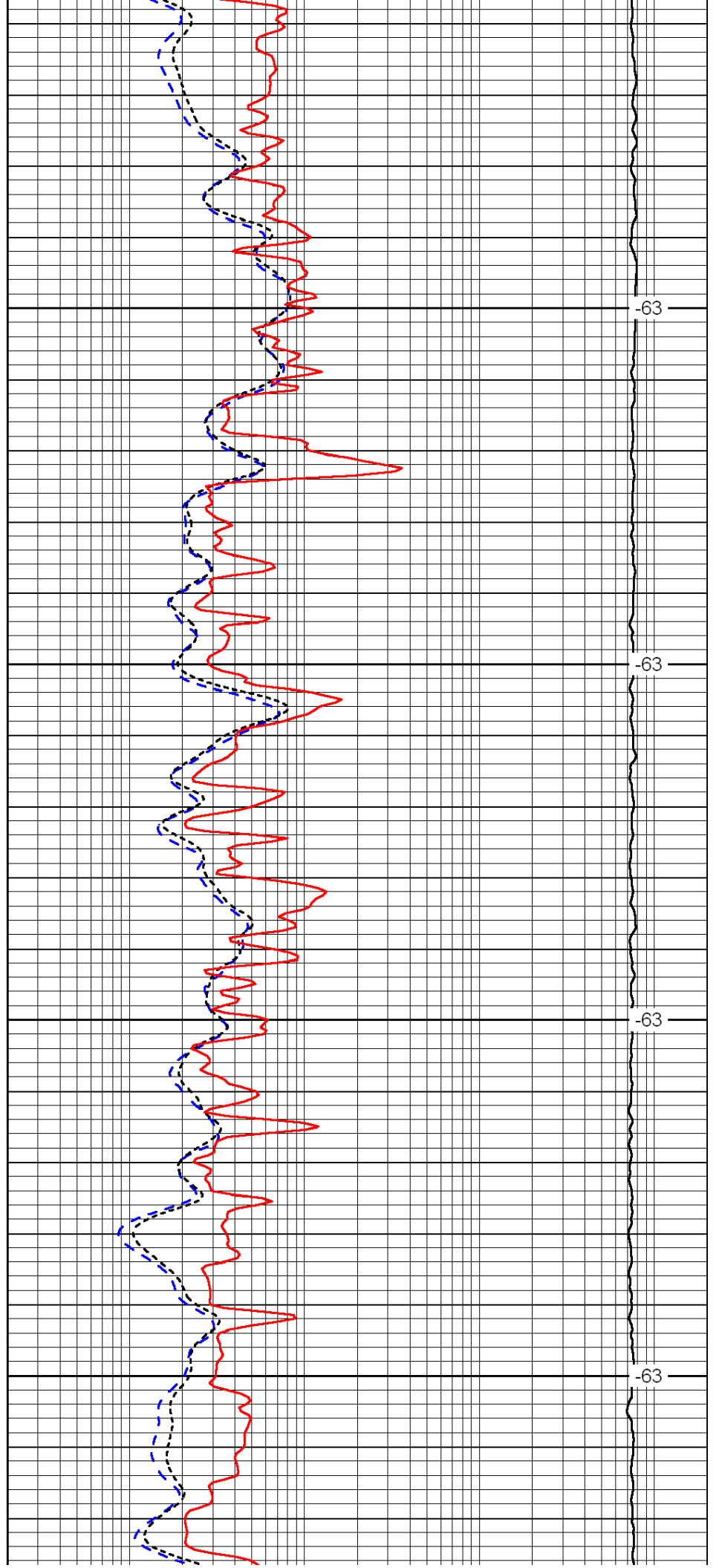


2950

3000

3050

3100

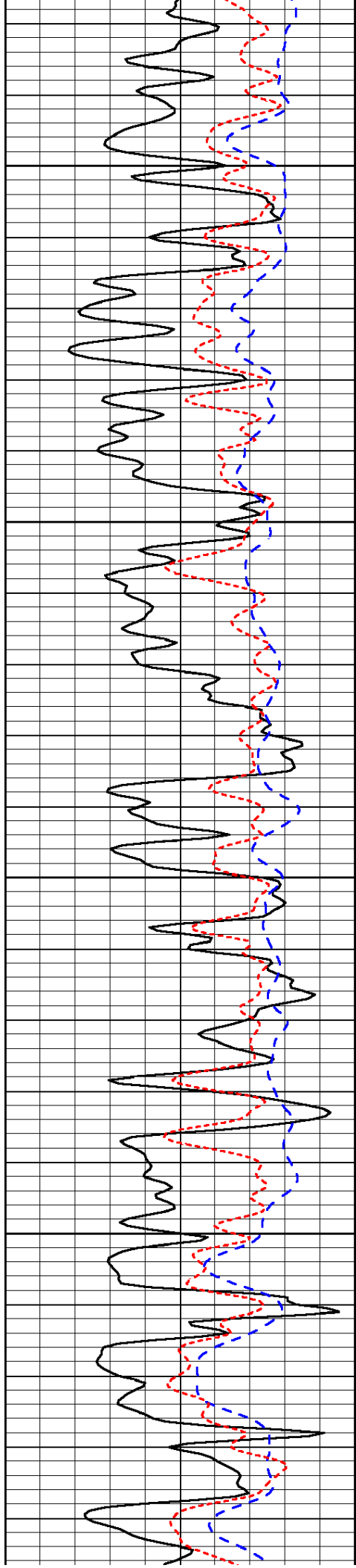


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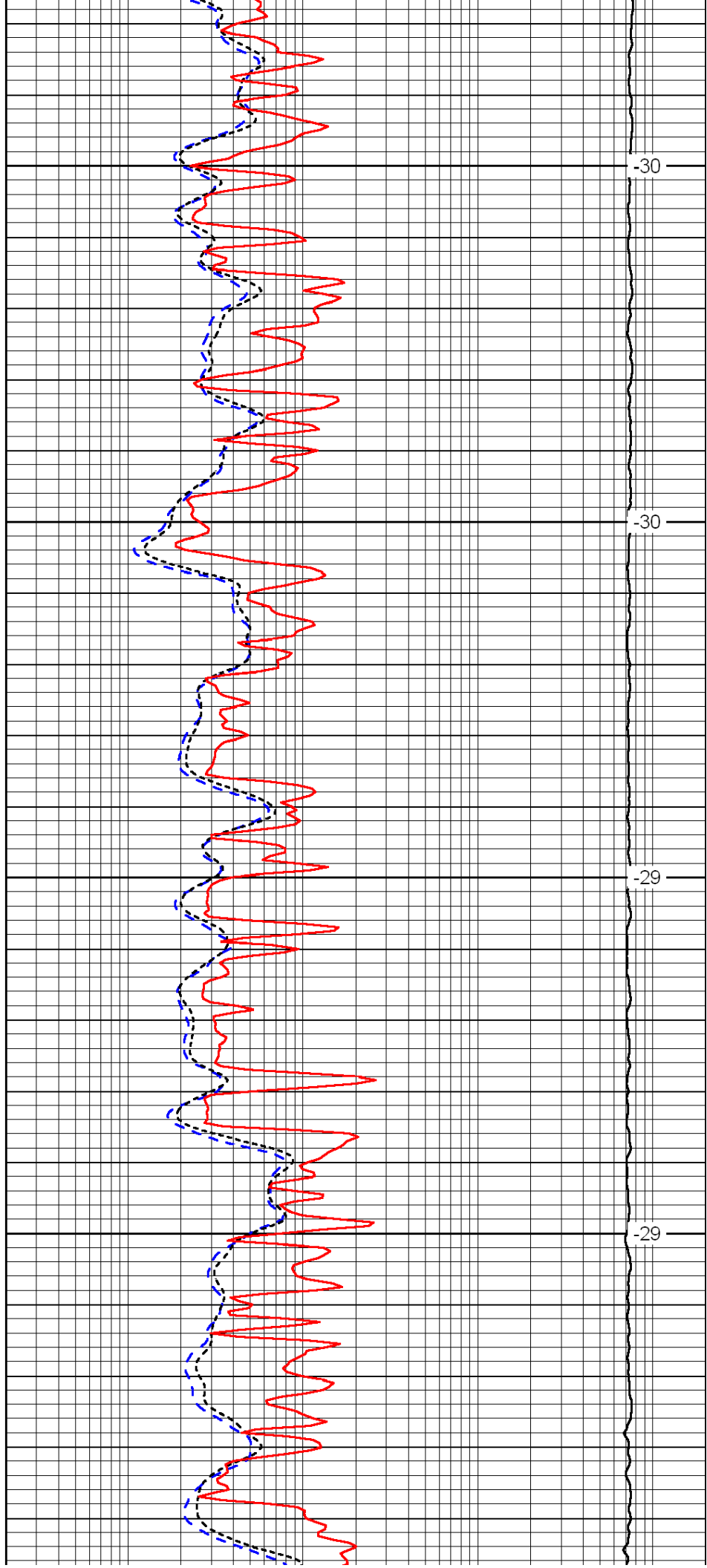


3150

3200

3250

3300

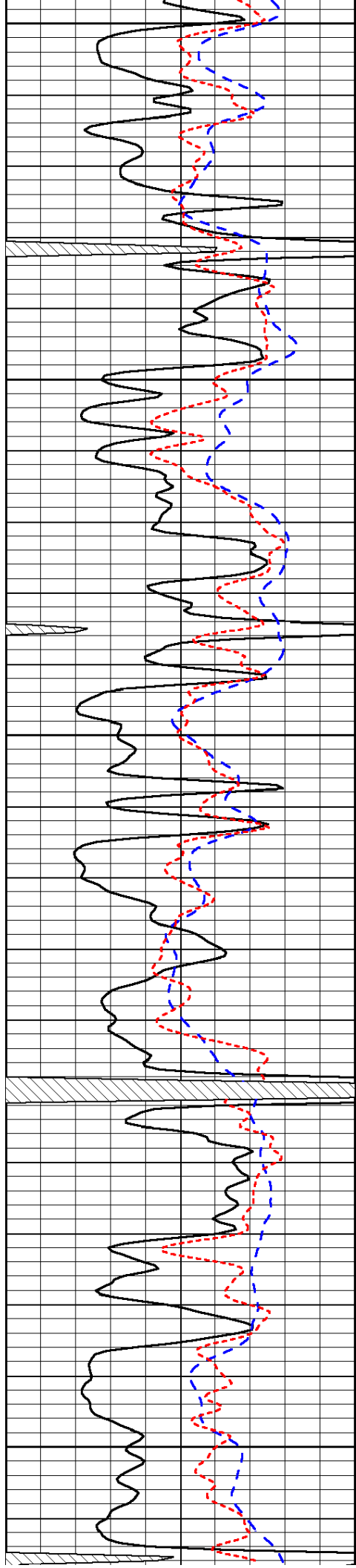


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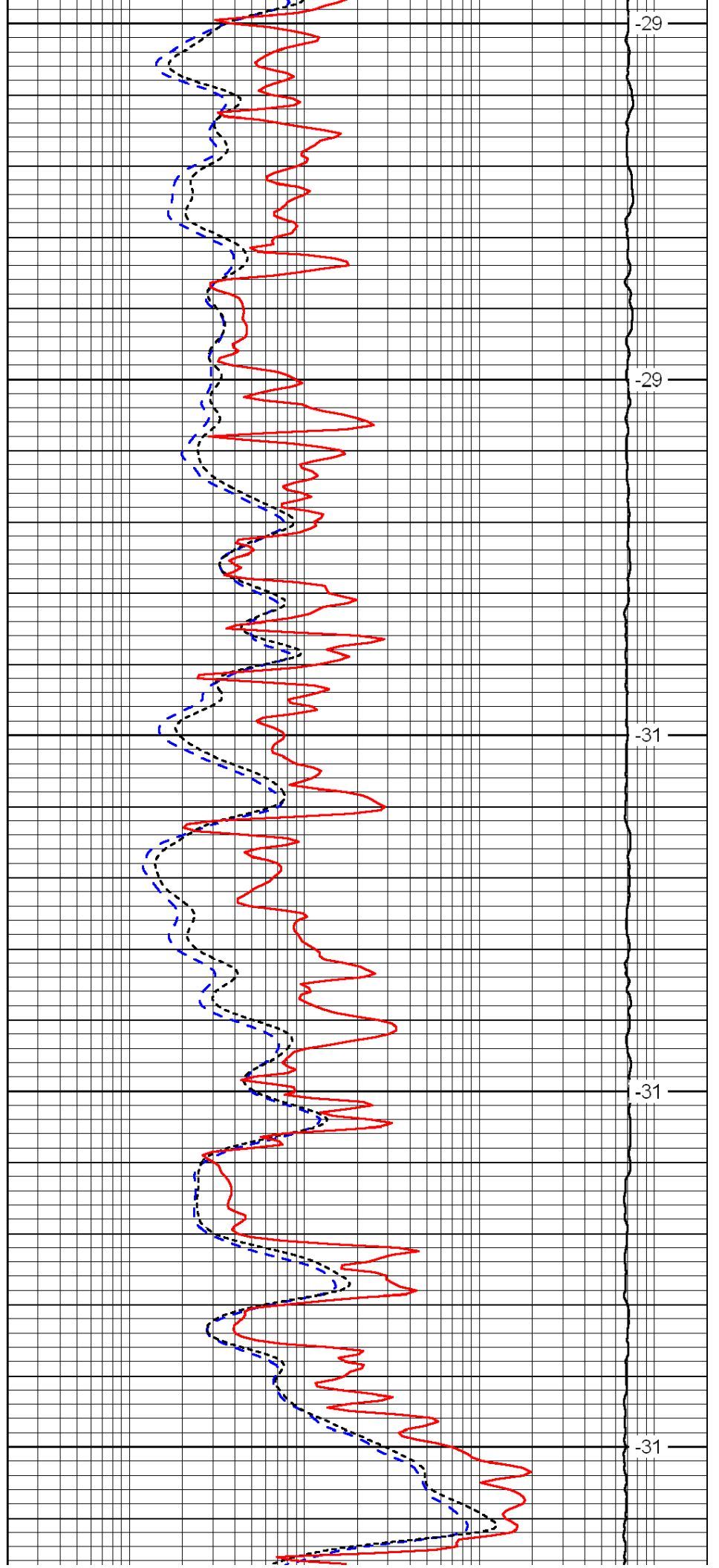
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3400

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3500

3550



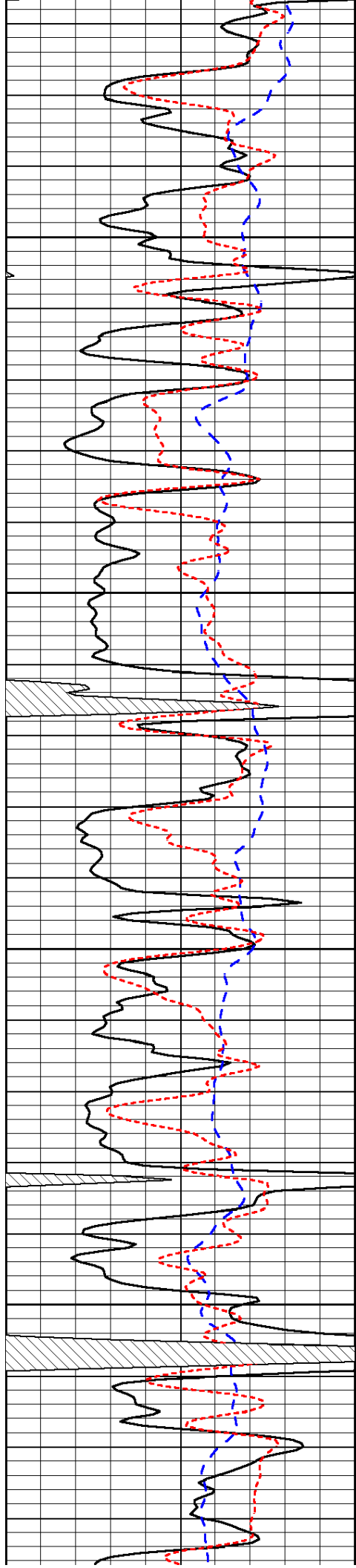
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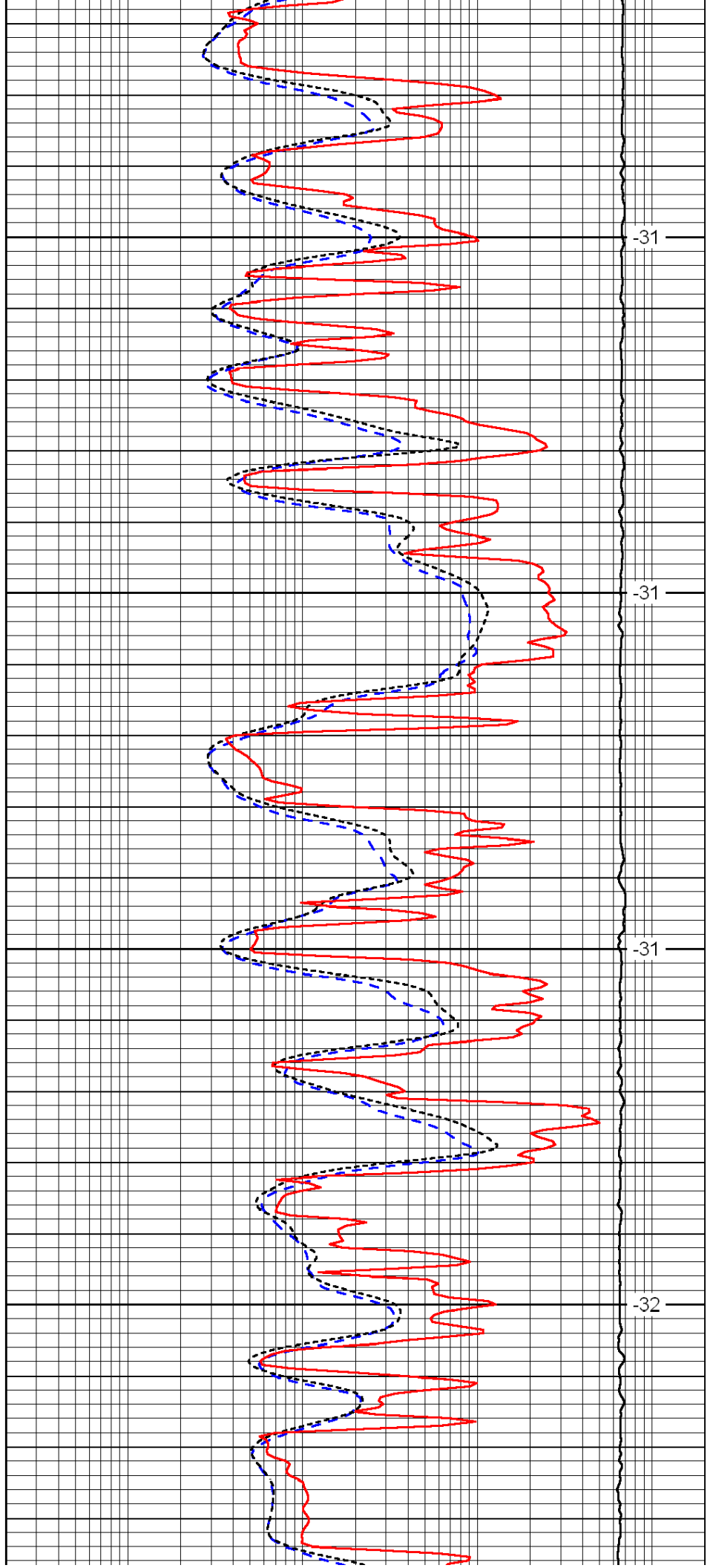


3600

3650

3700

3750

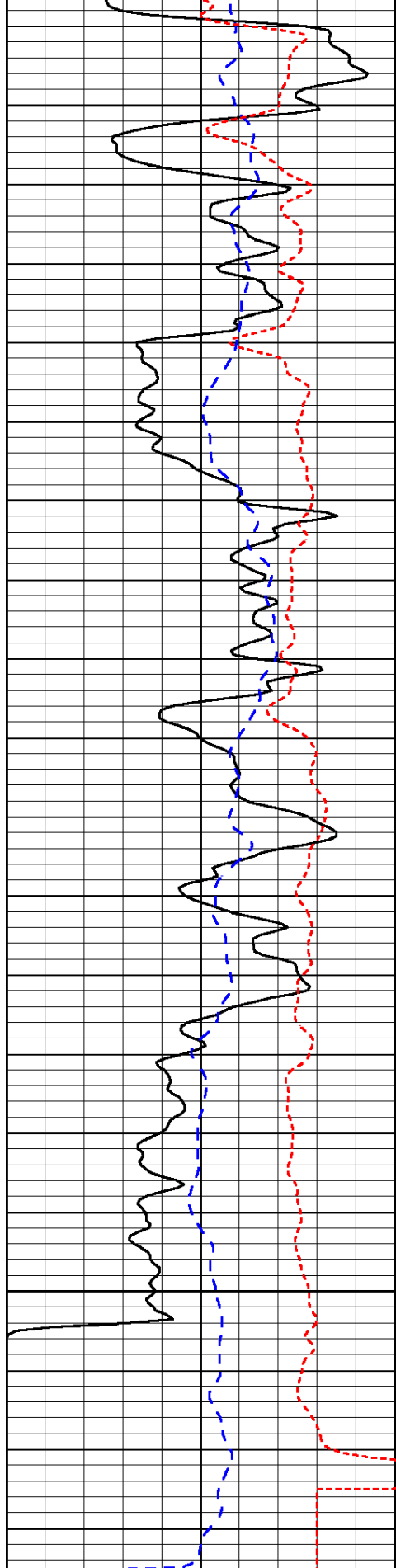


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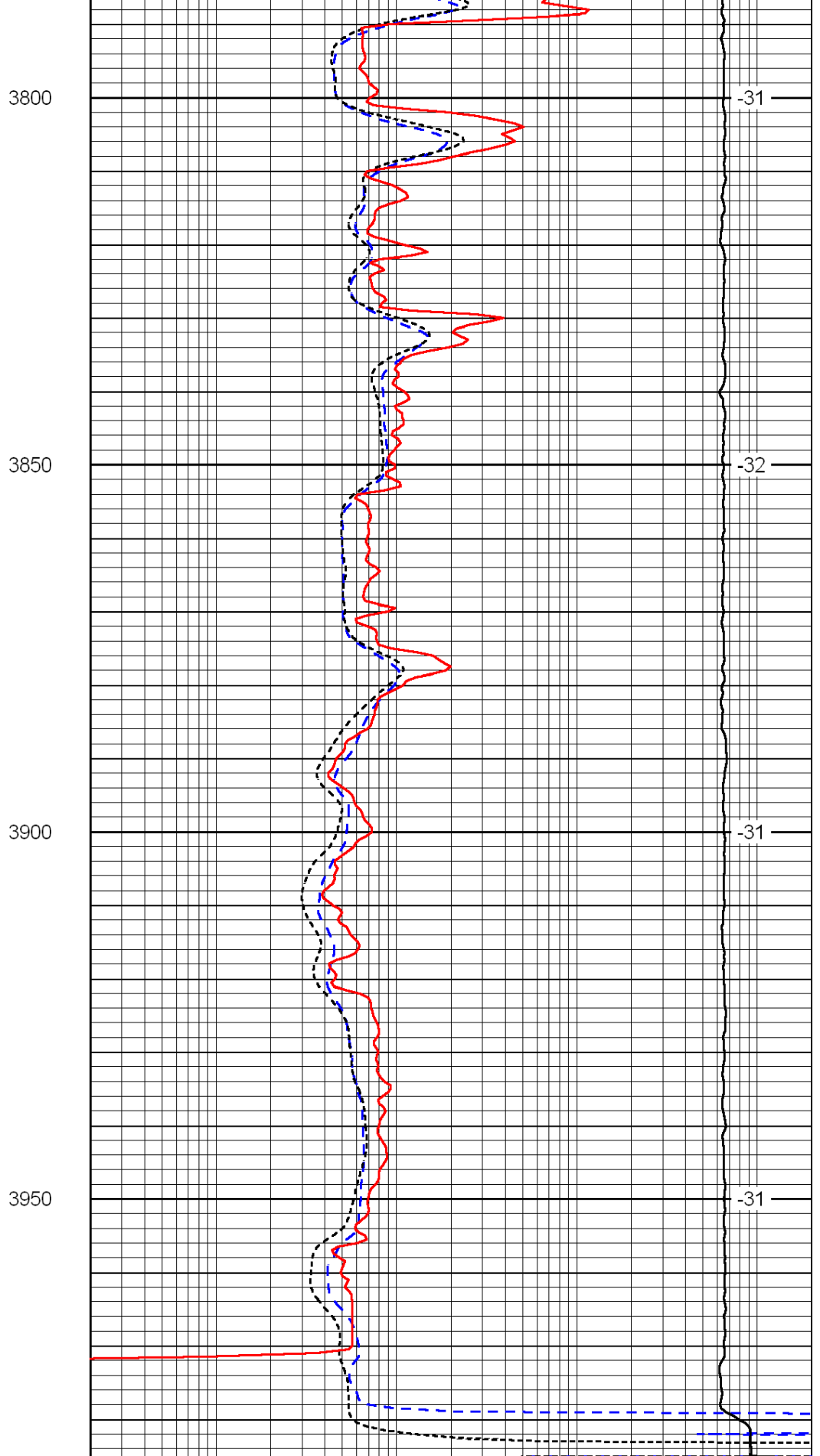
-31

-31

-32



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

