



Pioneer Energy Services

# Dual Induction Log

15-153-20,906-00-00

API No.

Company **Murfin Drilling Company, Inc**

Well **Sramek # 'B' 1-11**

Field **Wildcat**

County **Rawlins** State **Kansas**

Location **NW NE NE SW  
2405' FSL & 2000' FWL**

Sec: **11** Twp: **3 S** Rge: **36 W**

Permanent Datum **Ground Level** Elevation **3242**

Log Measured From **Kelly Bushing** 10 Ft. Above Perm. Datum

Drilling Measured From **Kelly Bushing**

Other Services  
CNL/CDL  
MEL/BHCS

Elevation

K.B. 3252  
D.F. 3242  
G.L. 3242

Date **9/9/2012**

Run Number **One**

Depth Driller **4950**

Depth Logger **4954**

Bottom Logged Interval **4953**

Top Log Interval **00**

Casing Driller **8.625 @ 302**

Casing Logger **302**

Bit Size **7.875**

Type Fluid in Hole **Chemical**

Salinity,ppm CL **1000**

Density / Viscosity **9.3 69**

pH / Fluid Loss **6.4 10.5**

Source of Sample **Flowline**

Rm @ Meas. Temp **1.20 @ 80**

Rmf @ Meas. Temp **.90 @ 80**

Rmc @ Meas. Temp **1.62 @ 80**

Source of Rmf / Rmc **Charts**

Rm @ BHT **.75 @ 126**

Operating Rig Time **5 Hours**

Max Rec. Temp. F **126**

Equipment Number **108**

Location **Hays**

Recorded By **D.Kerr**

Witnessed By **Wes Hansen**

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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.pioneerenergy.com  
785 625 3858

Atwood KS, 15 West to RD 5,  
1 North, 3/4 East, North Into

Database File: c:\warrior\data\murfin\_sramek 'b' #1-11\murfin\_sramek\_1\_11hd.db  
Dataset Pathname: DIL\murfstk  
Presentation Format: dil2in  
Dataset Creation: Sun Sep 09 19:10:42 2012  
Charted by: Depth in Feet scaled 1:600

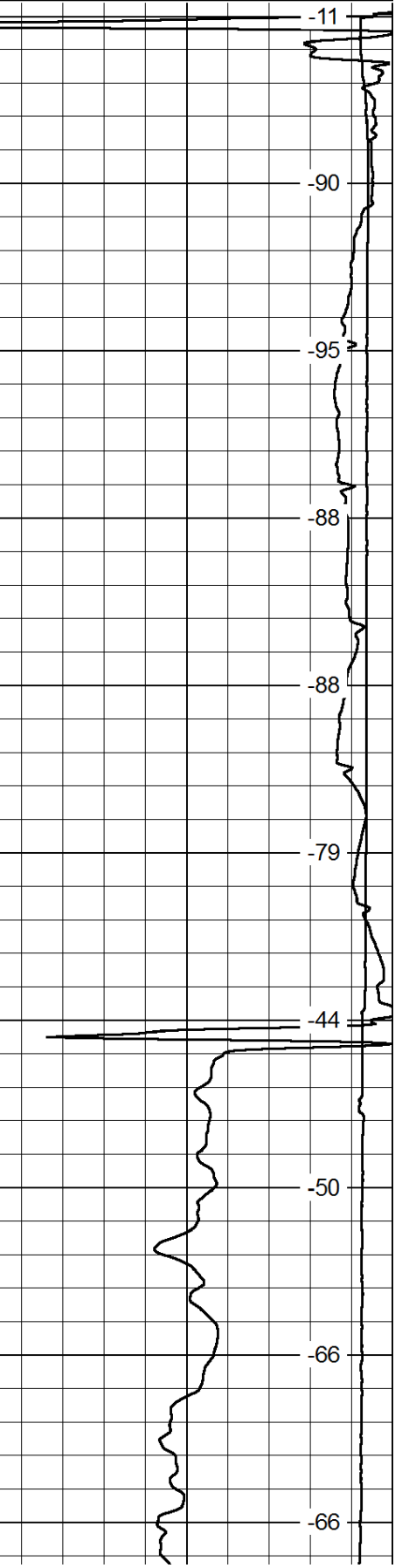
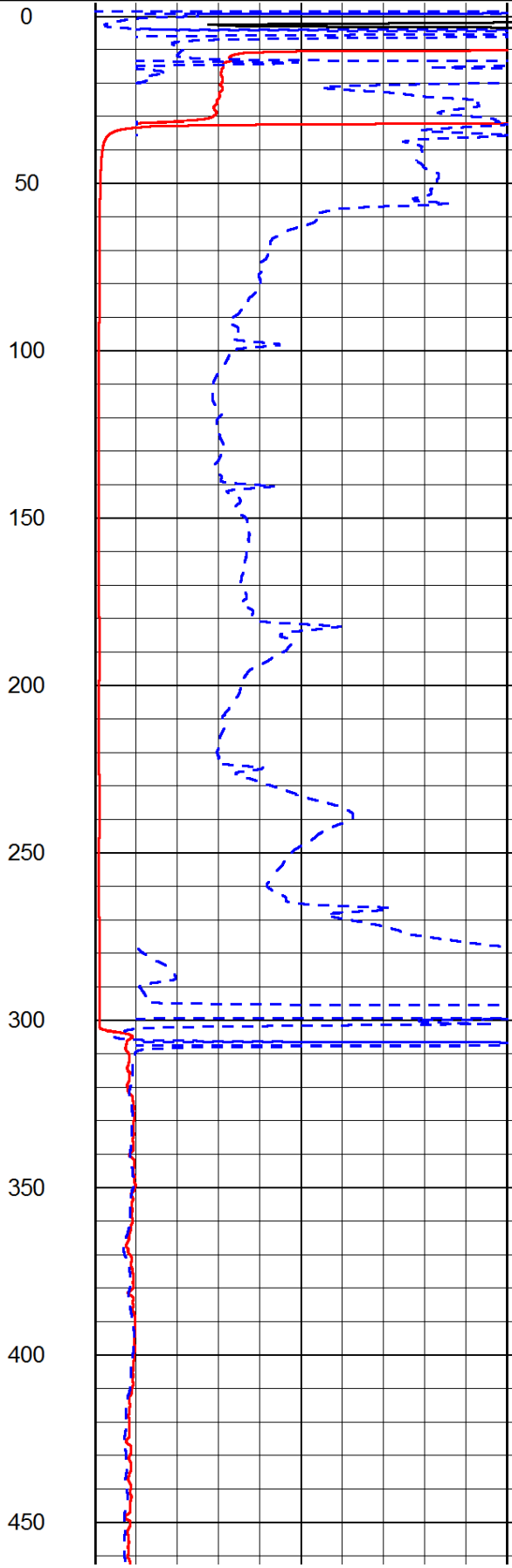
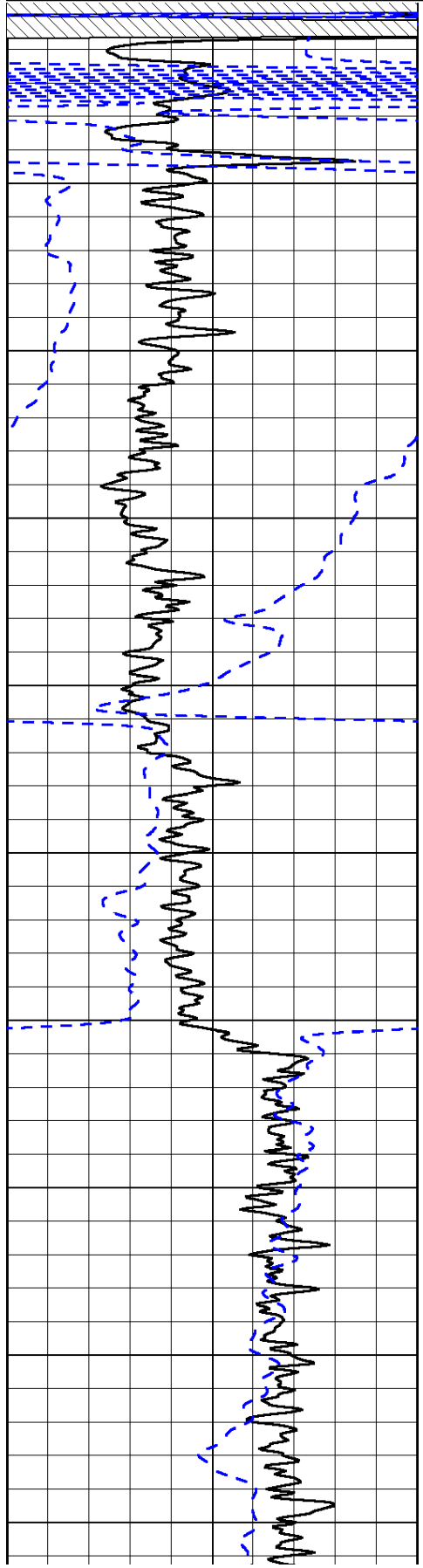
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-200	SP (mV)	0

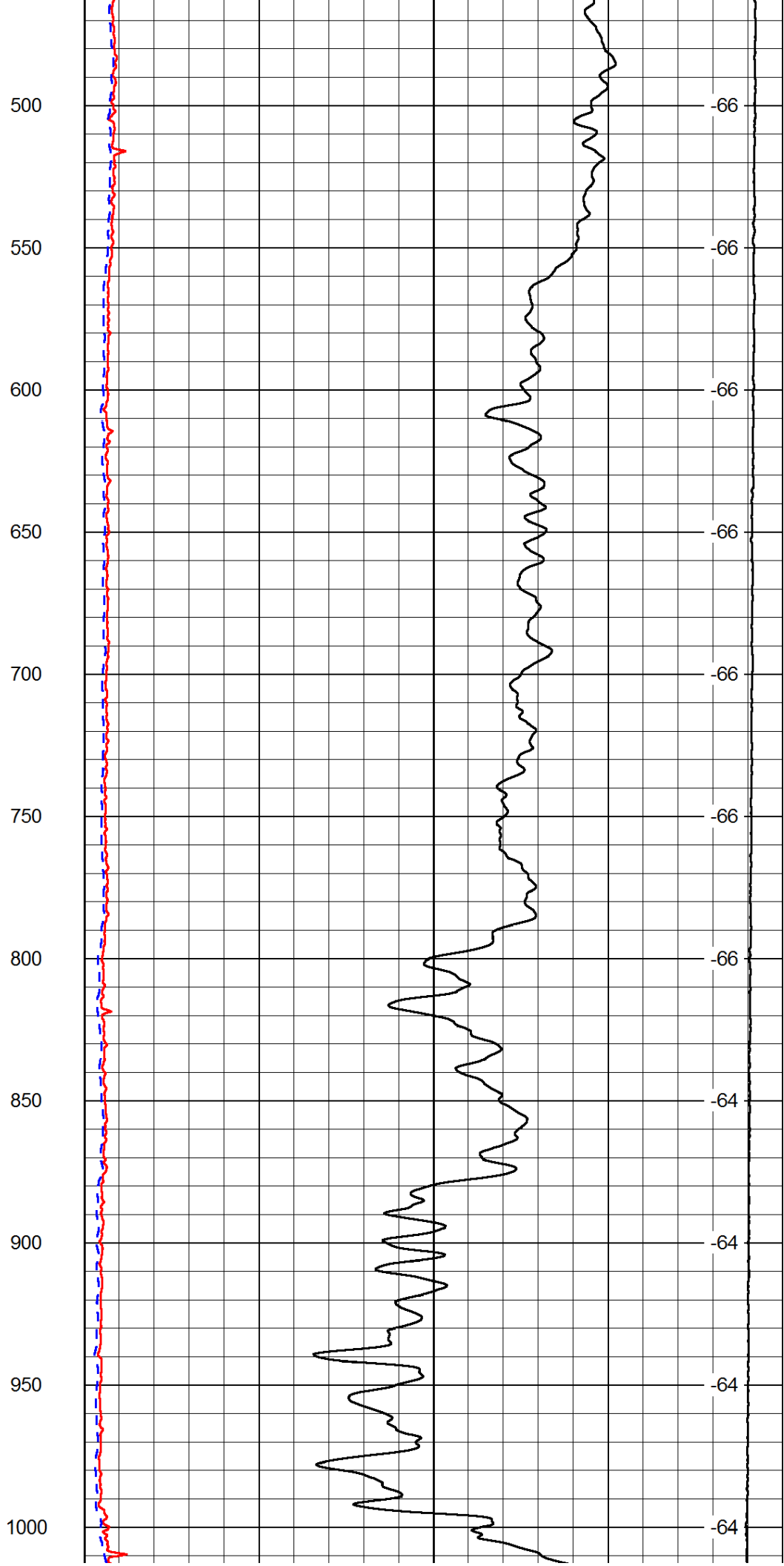
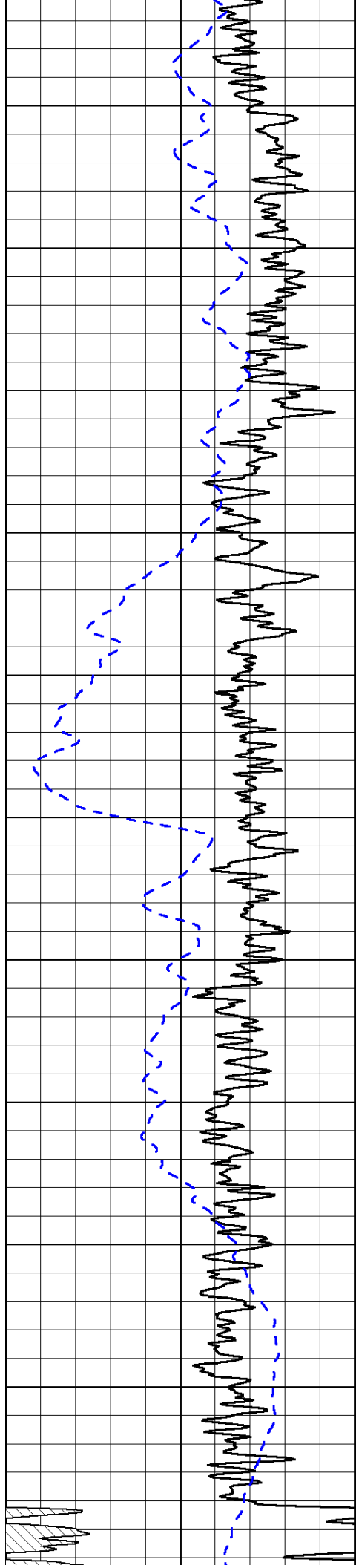
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0	Deep Resistivity	50

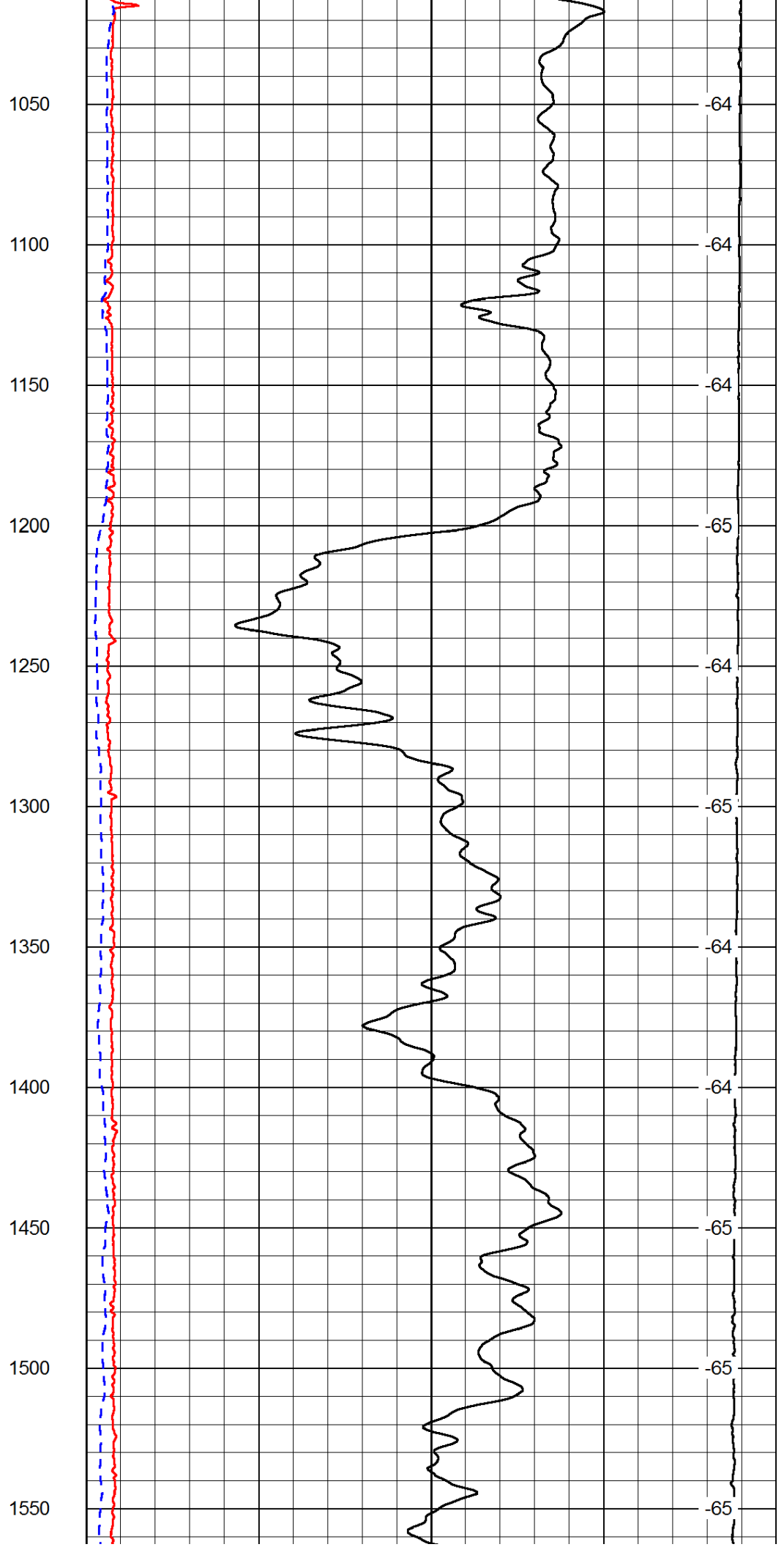
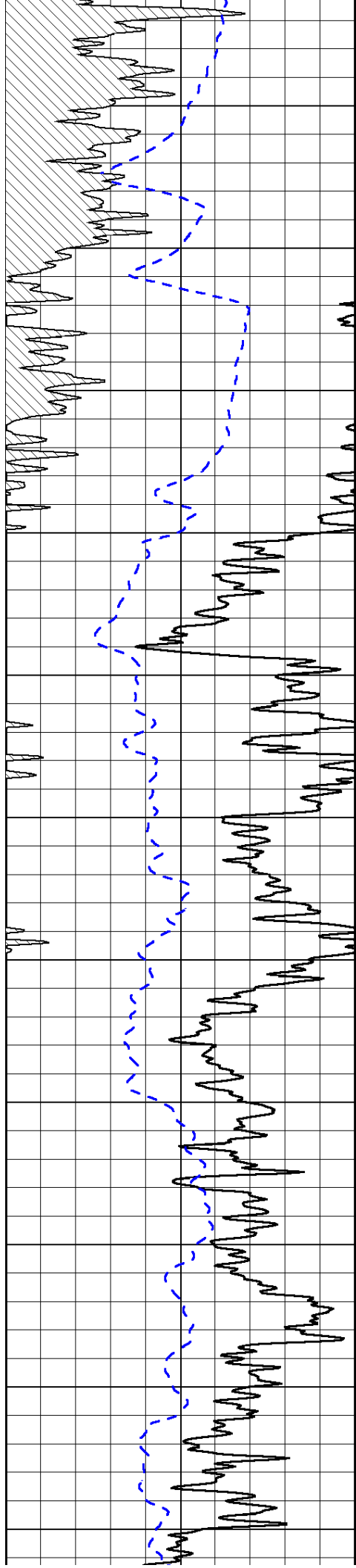
LSPD

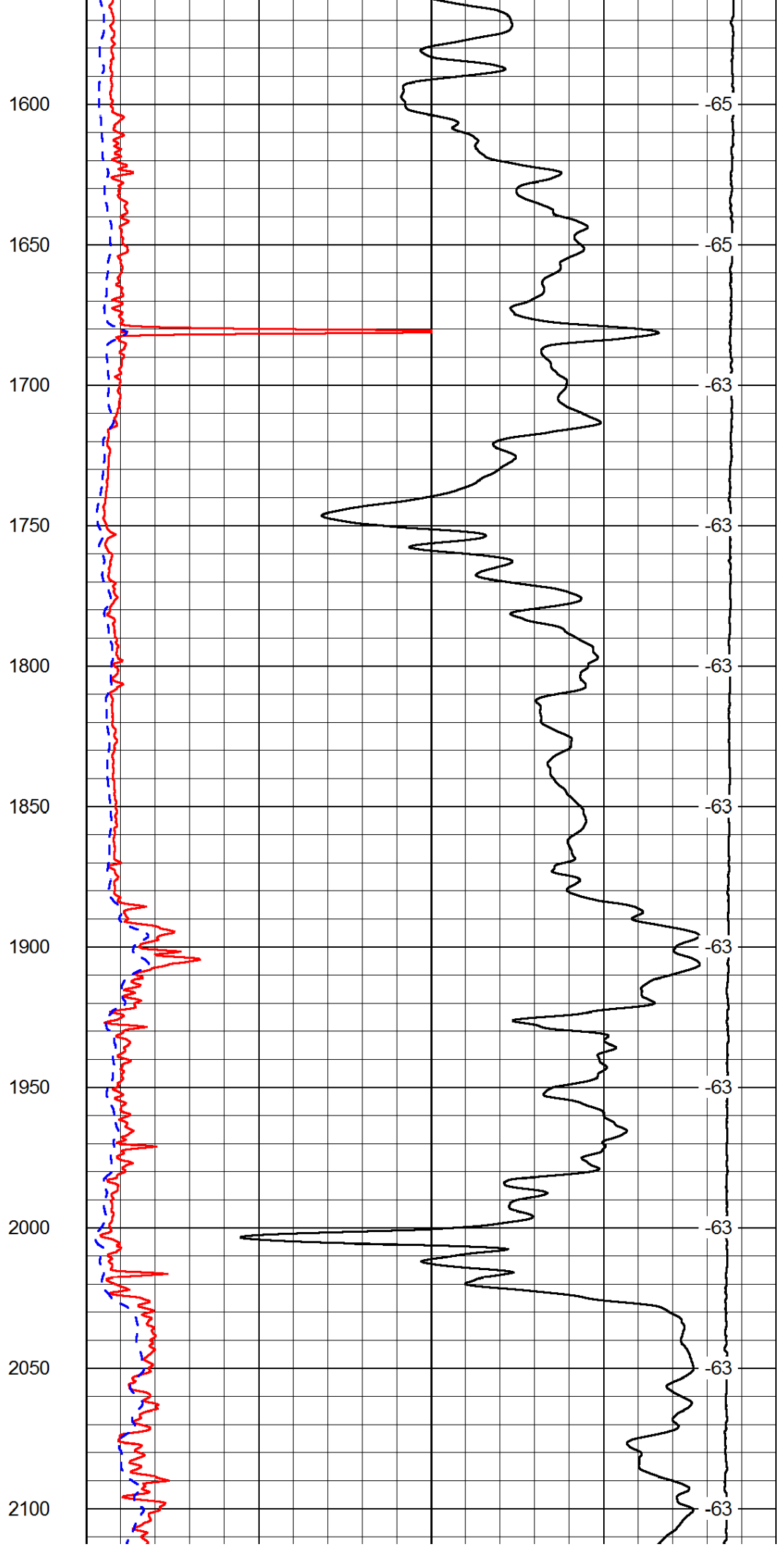
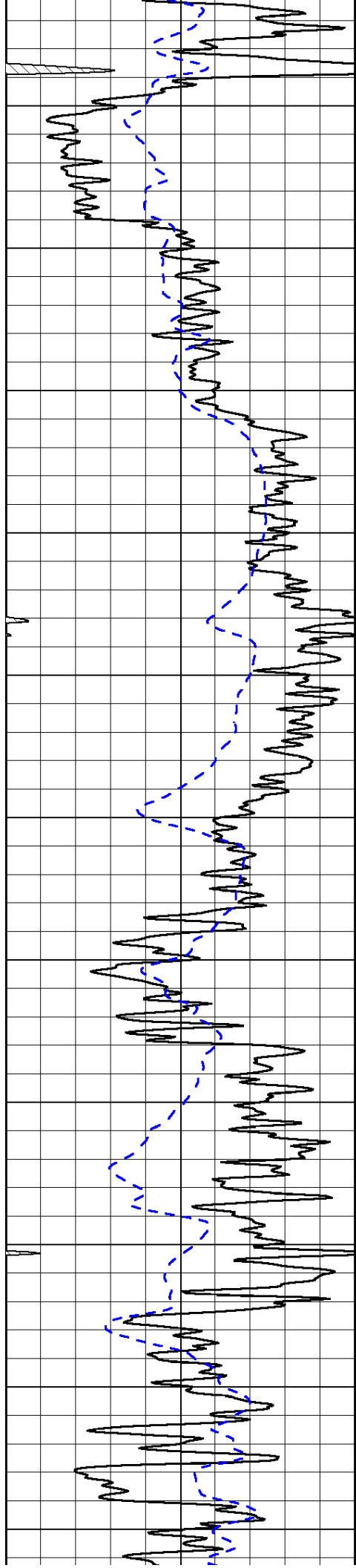
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15000	Line Tension	0

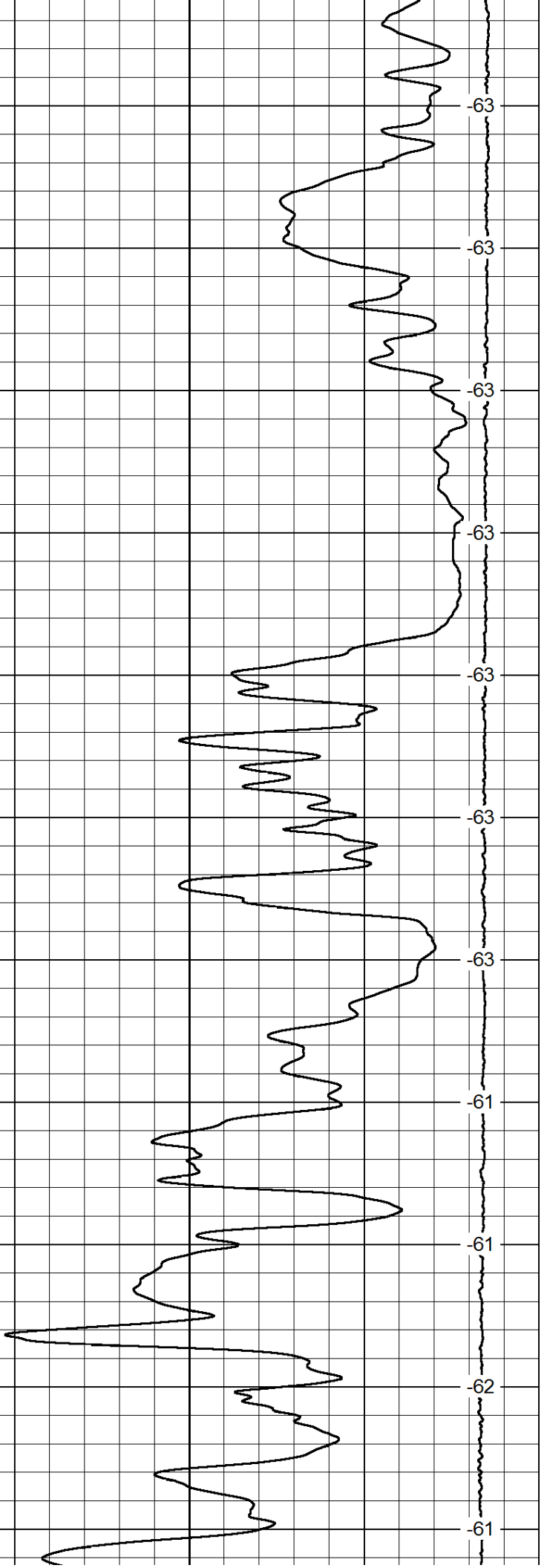
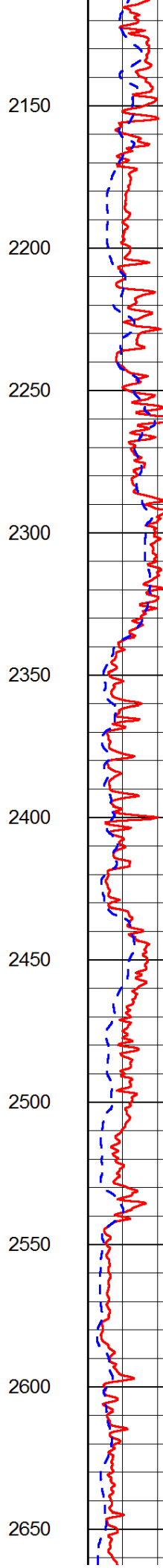
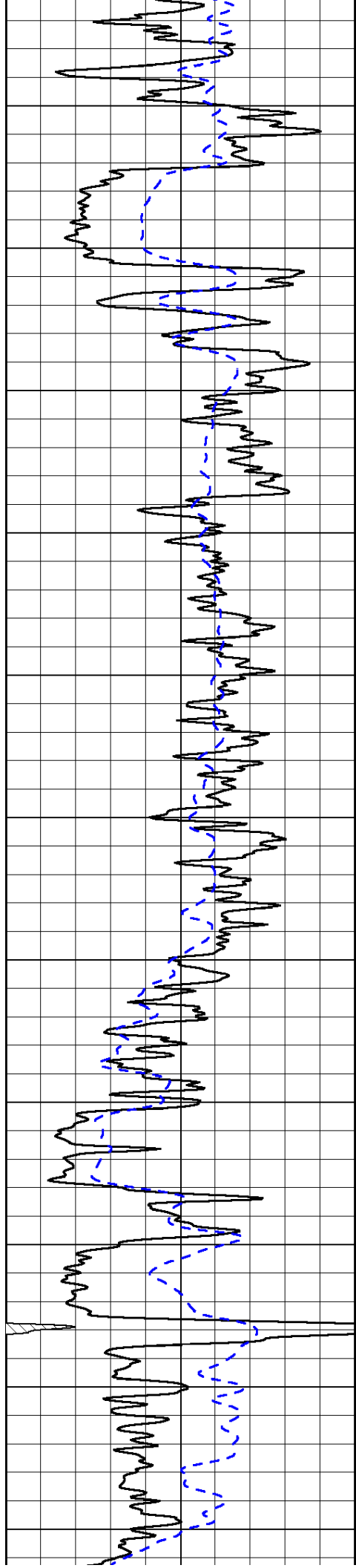
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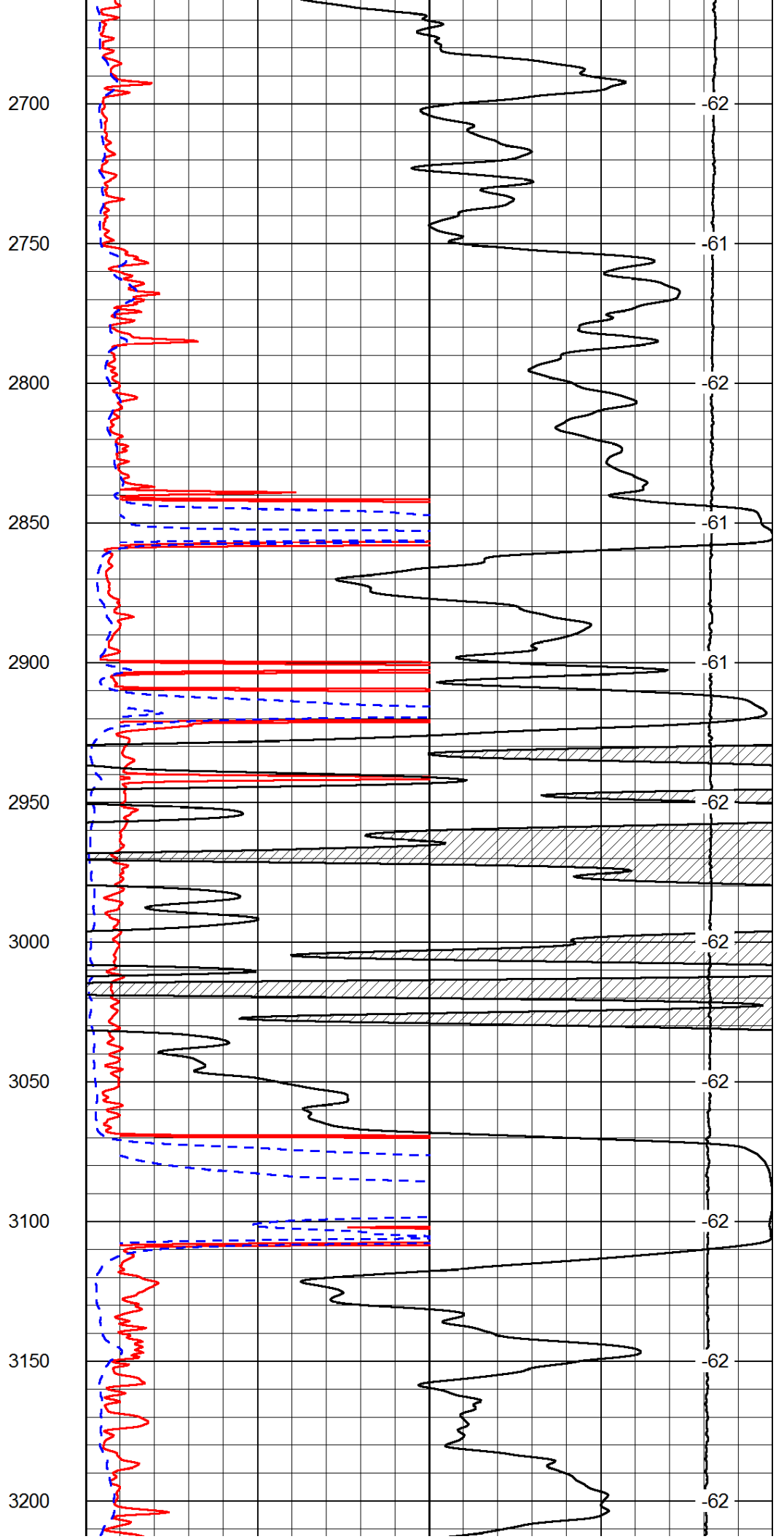
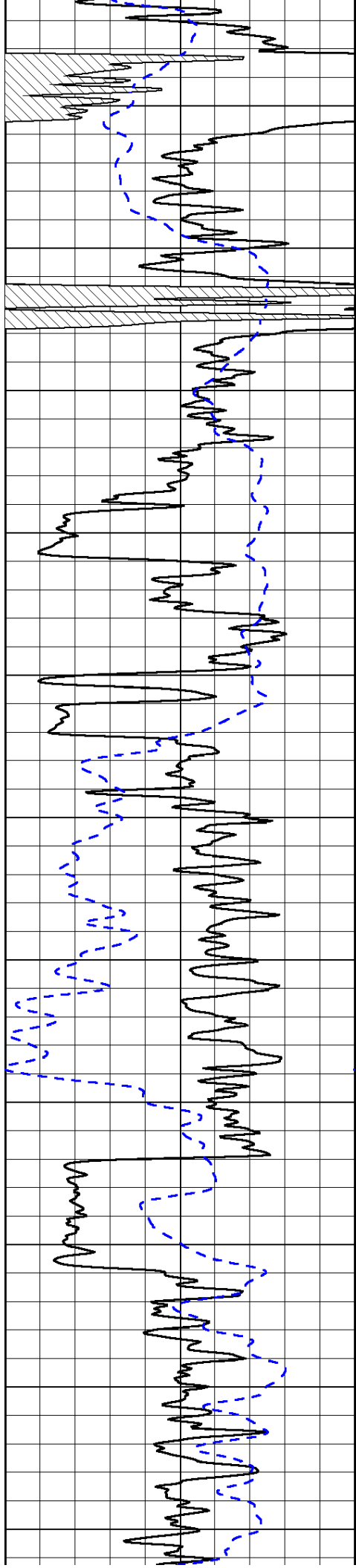


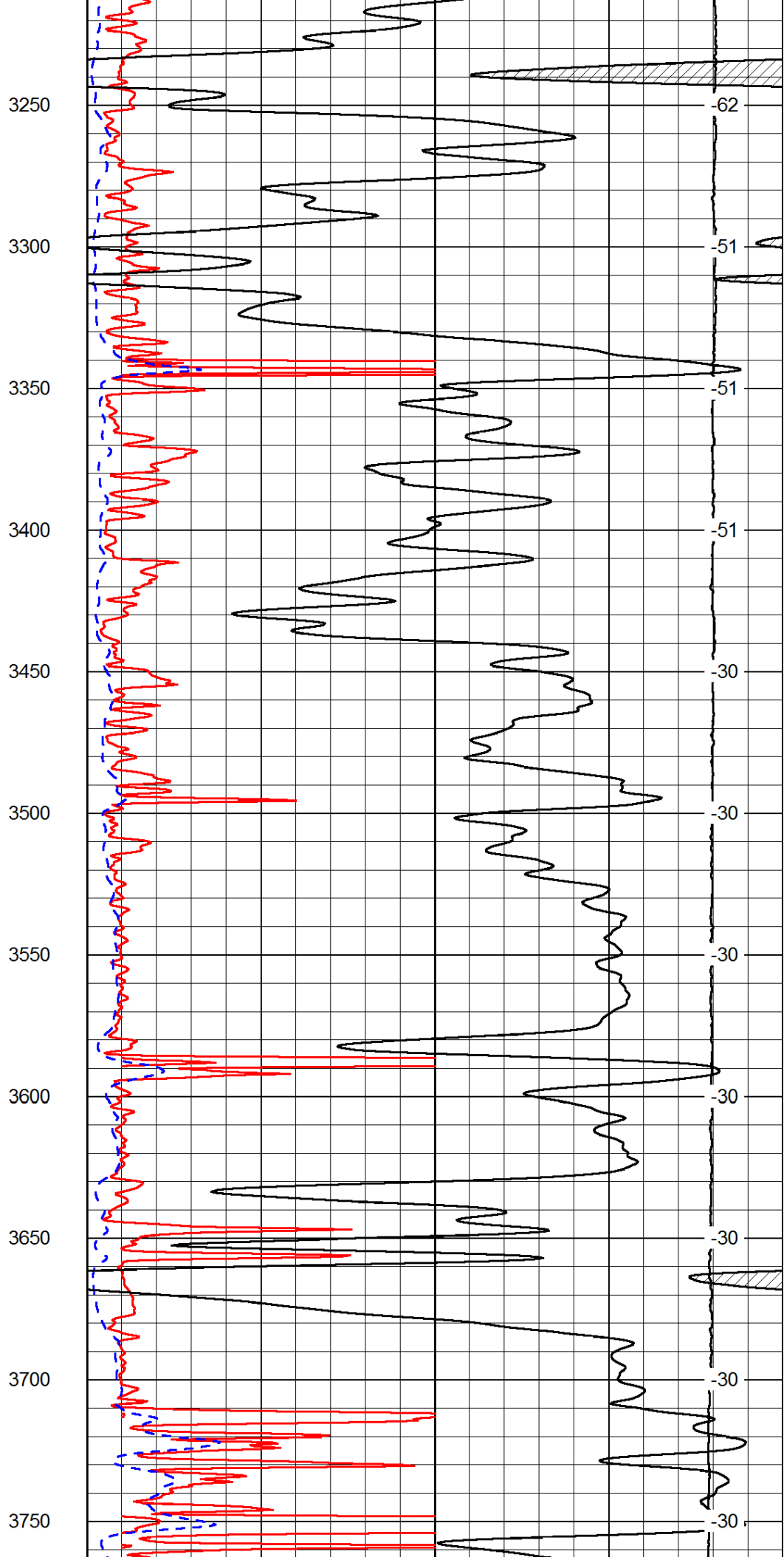
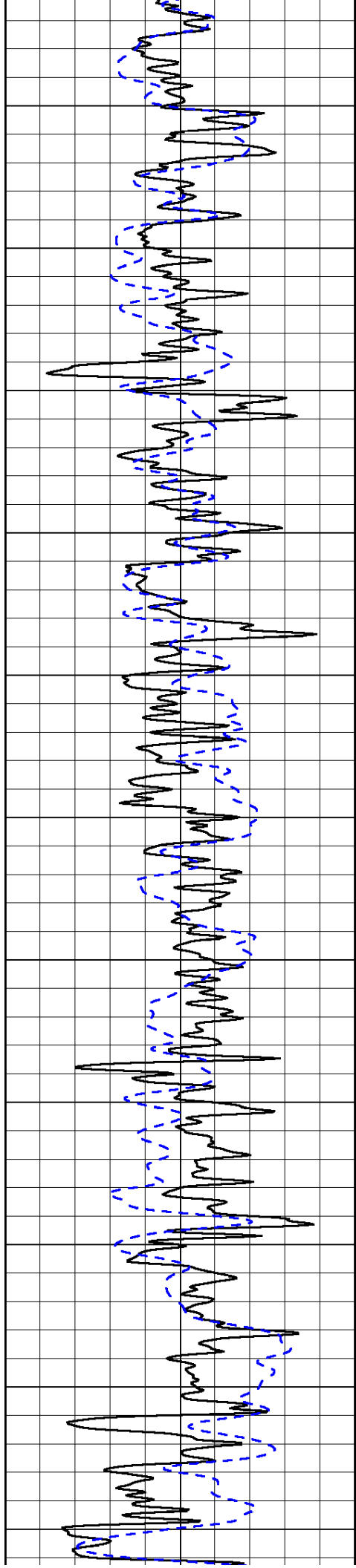




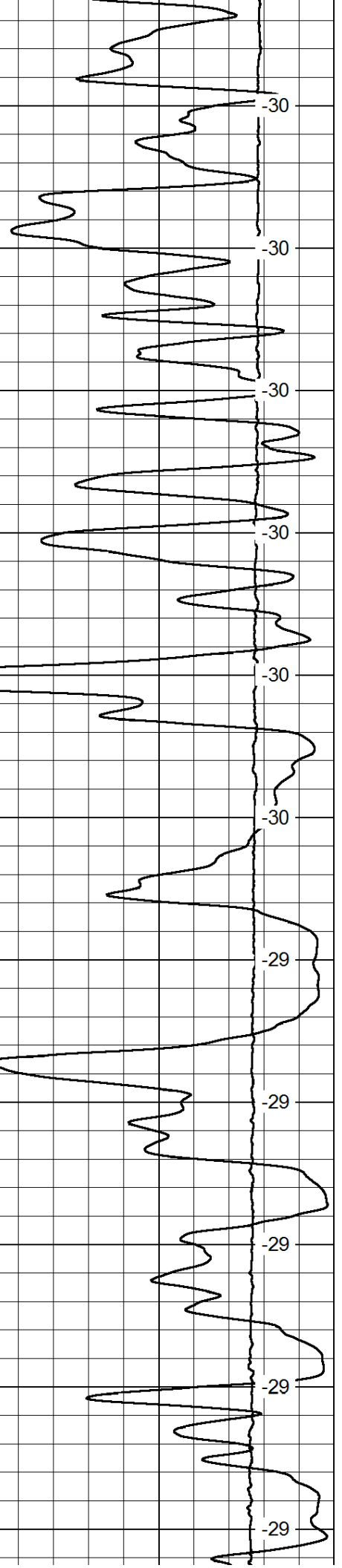
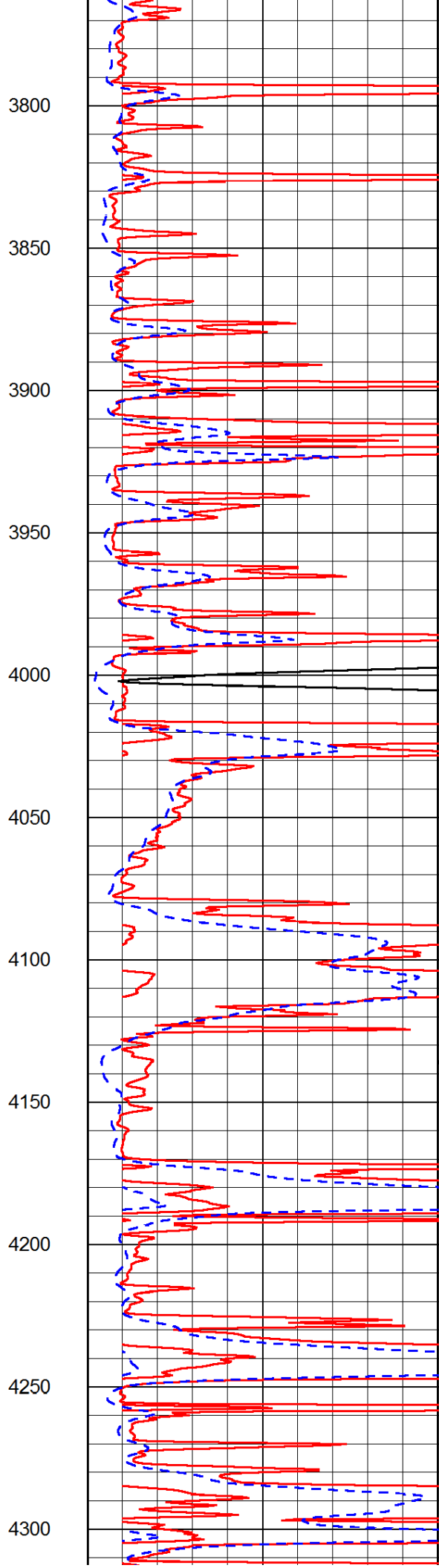
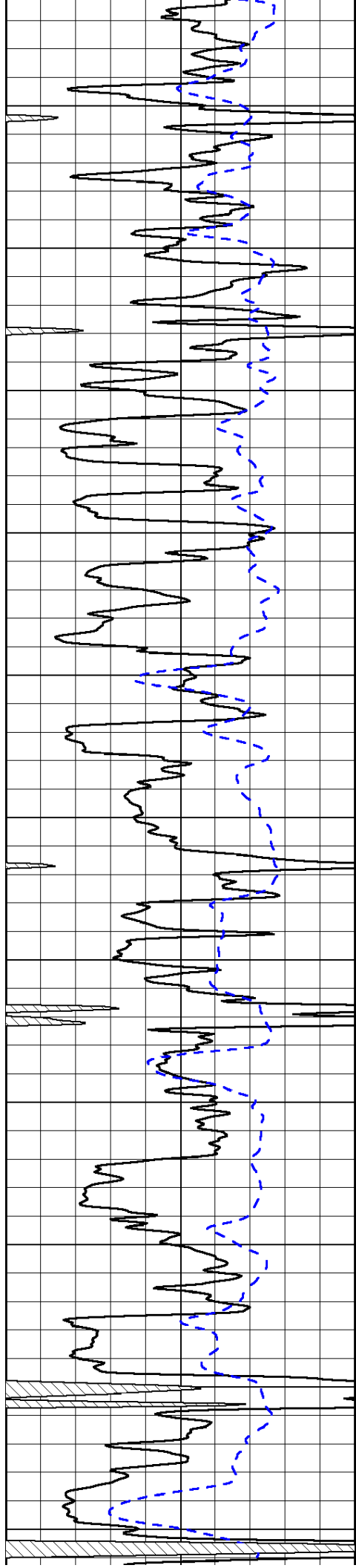


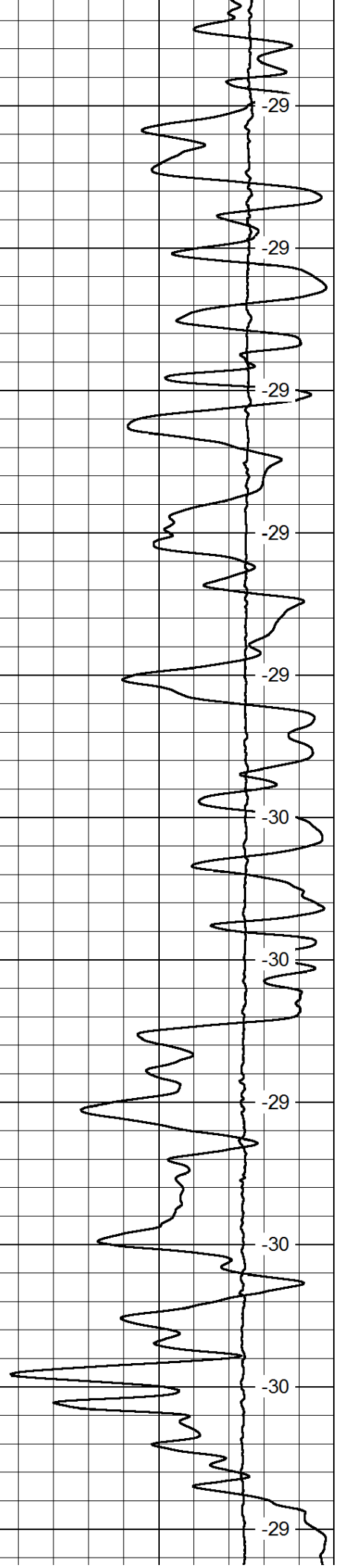
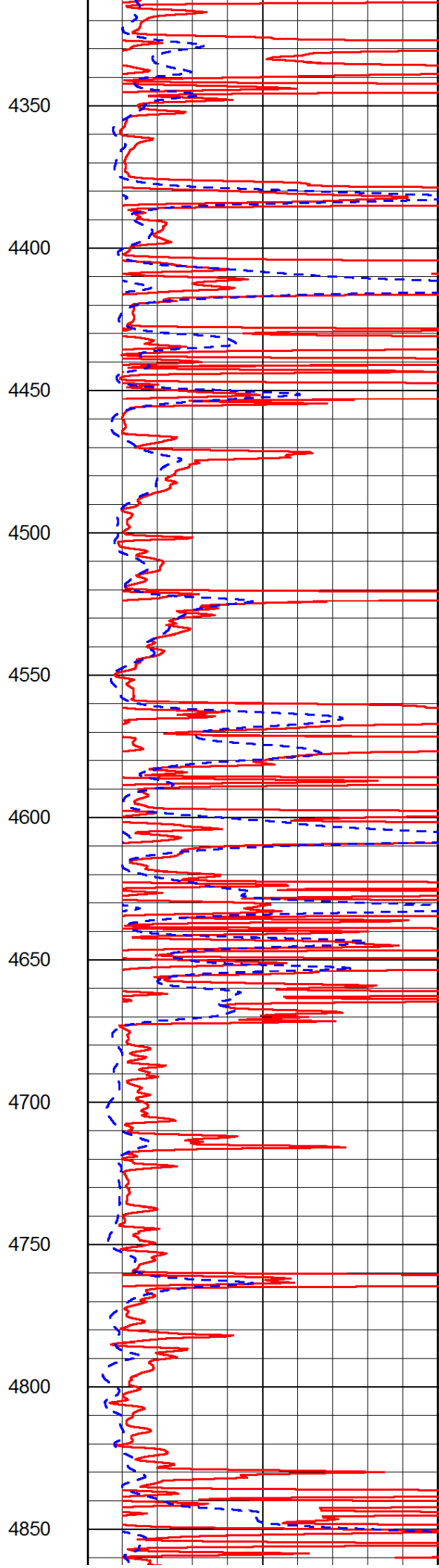
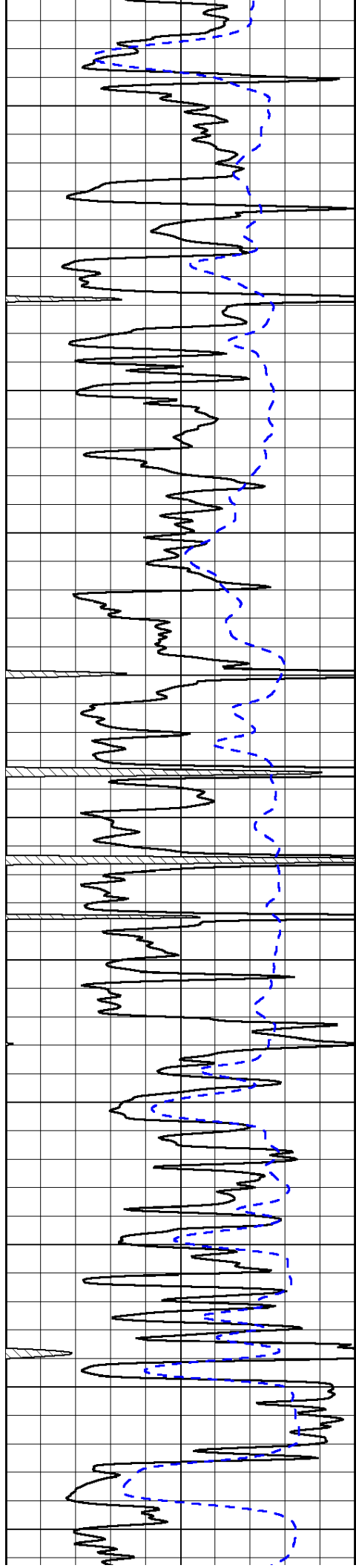


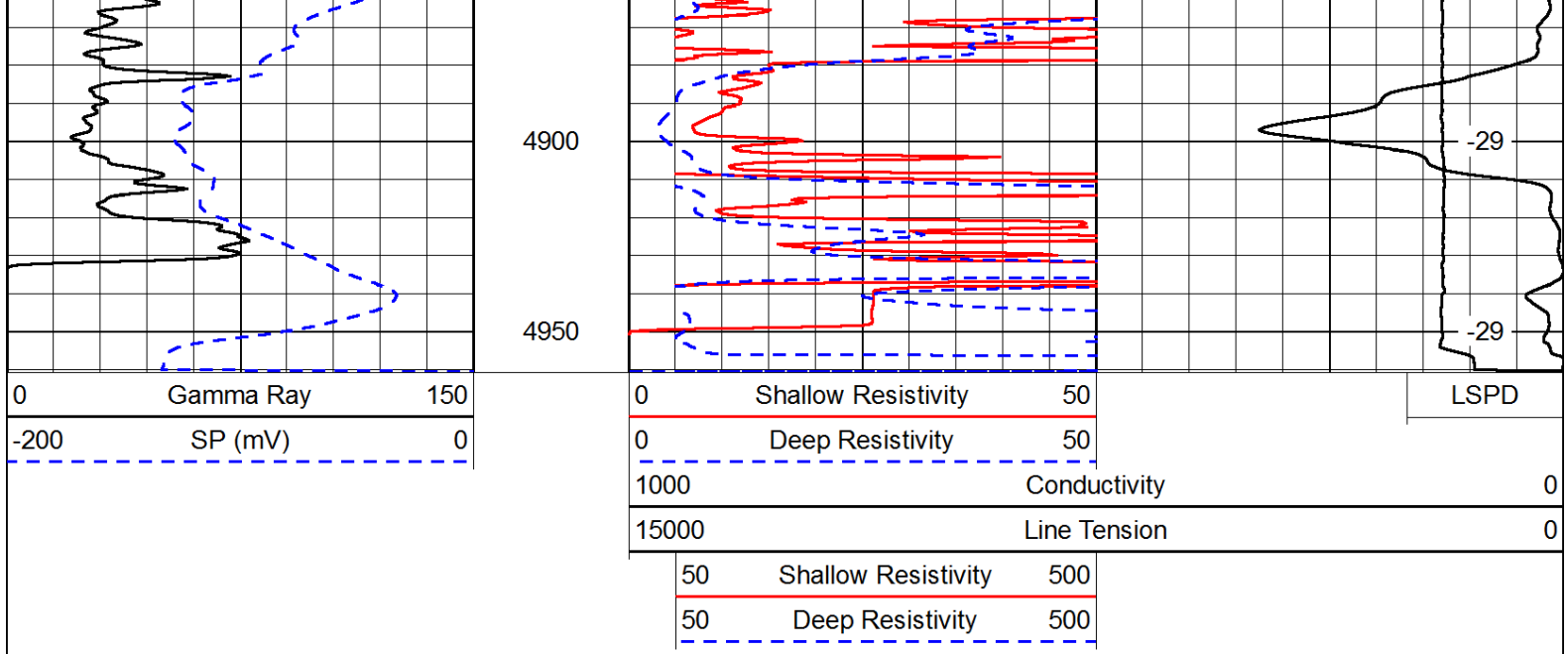




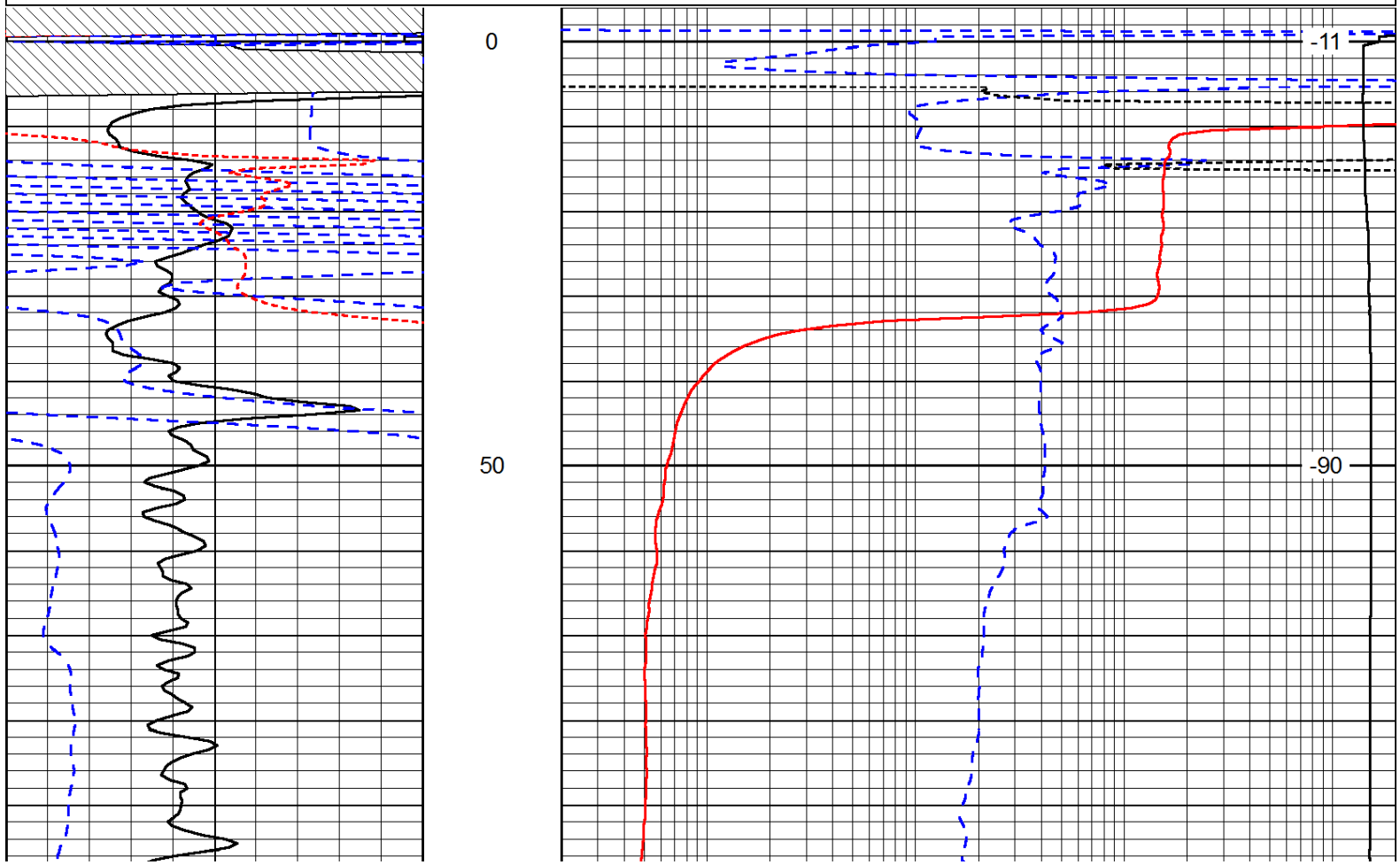
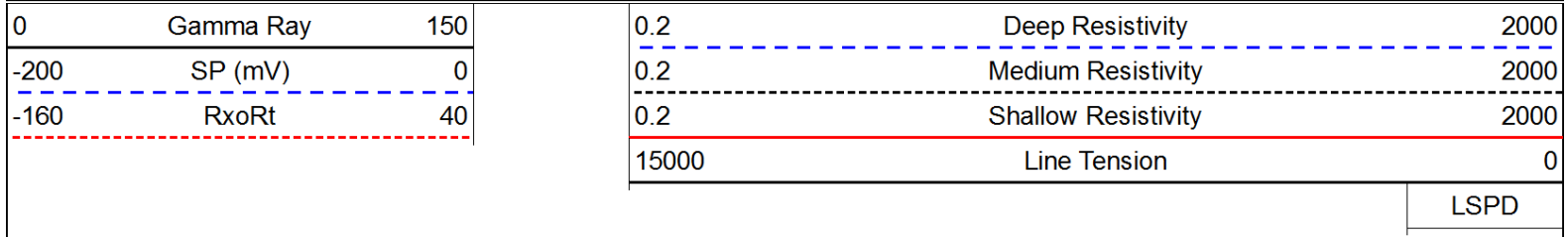


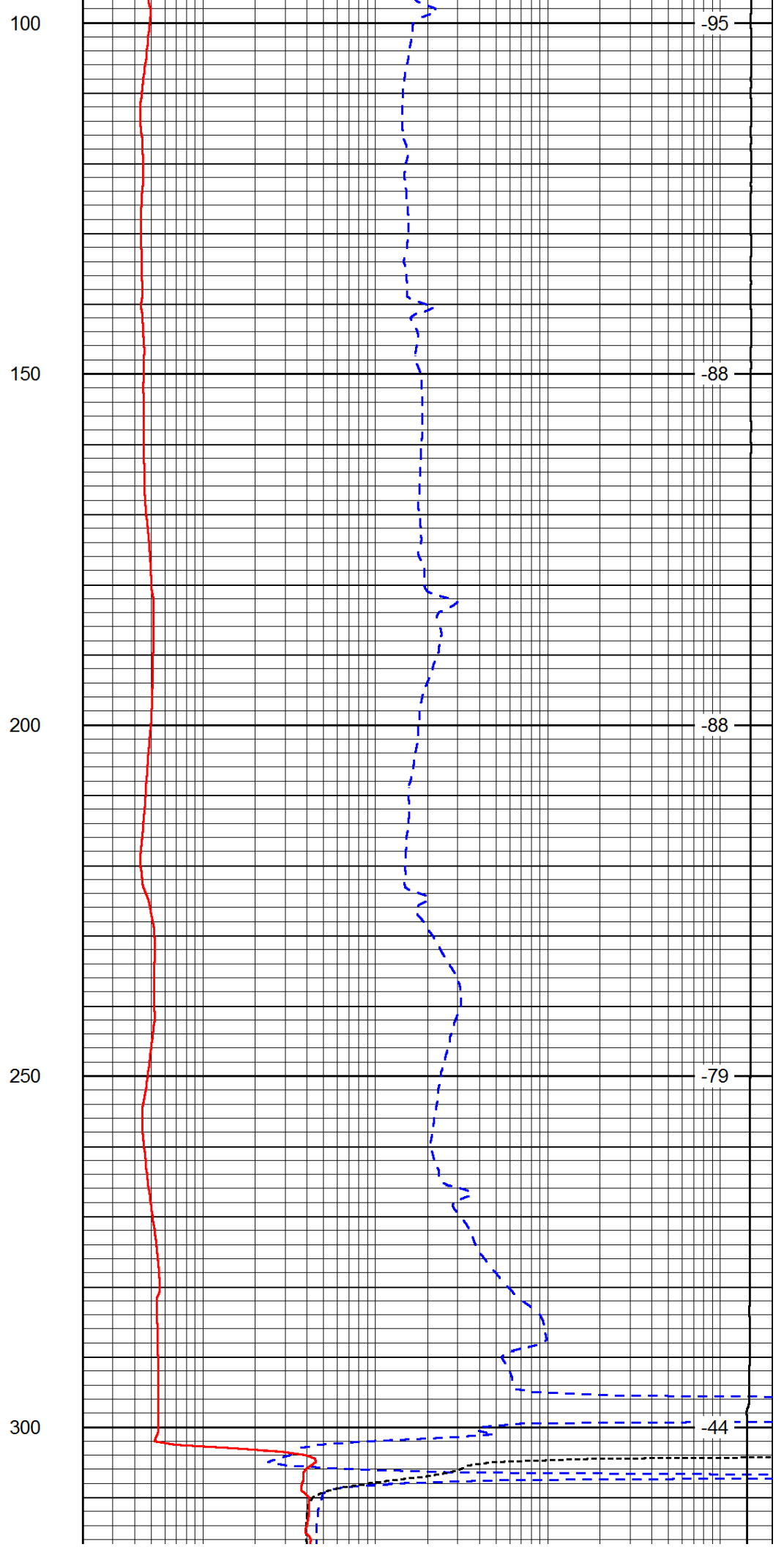
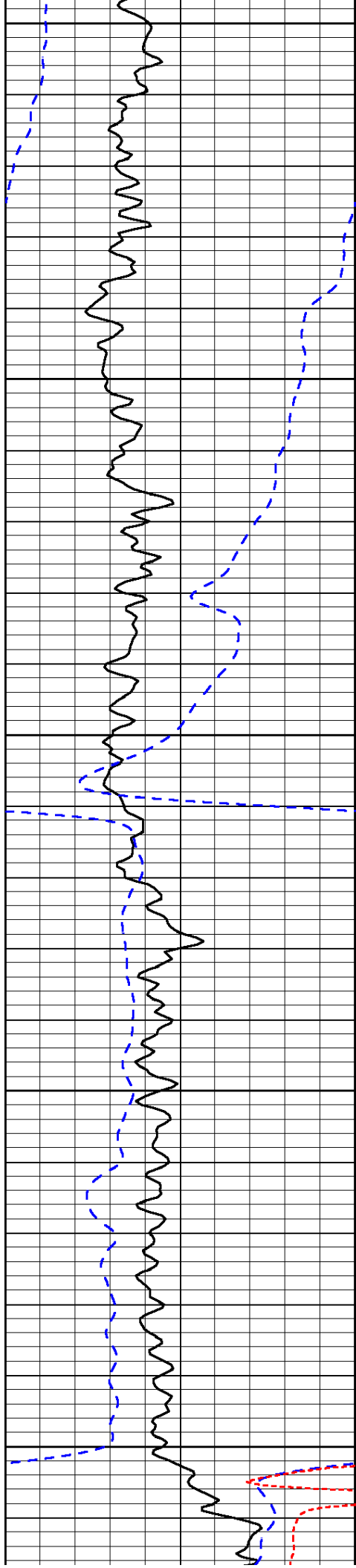






Database File: c:\warrior\data\murfin\_sramek 'b' #1-11\murfin\_sramek\_1\_11hd.db  
 Dataset Pathname: DIL/murfstk  
 Presentation Format: dil  
 Dataset Creation: Sun Sep 09 19:10:42 2012  
 Charted by: Depth in Feet scaled 1:240





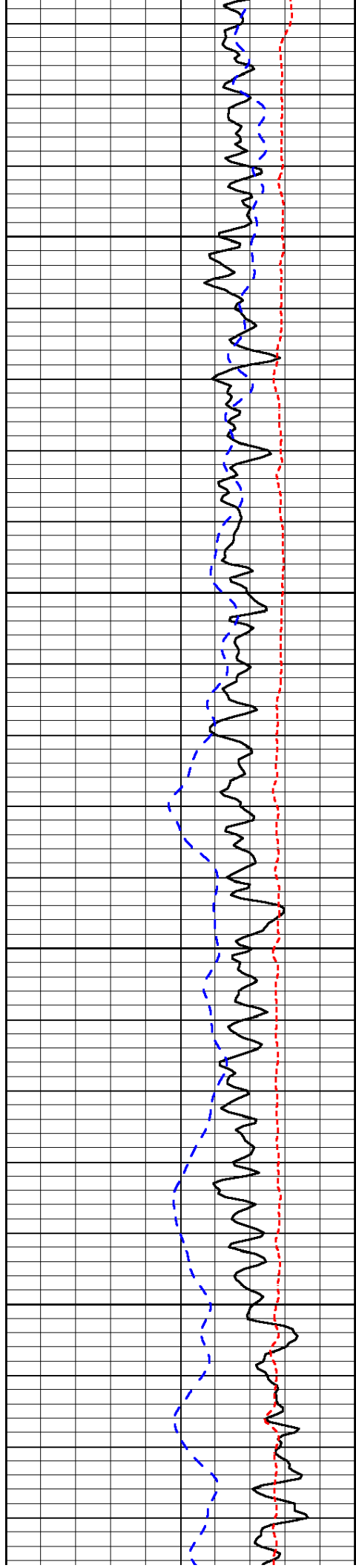
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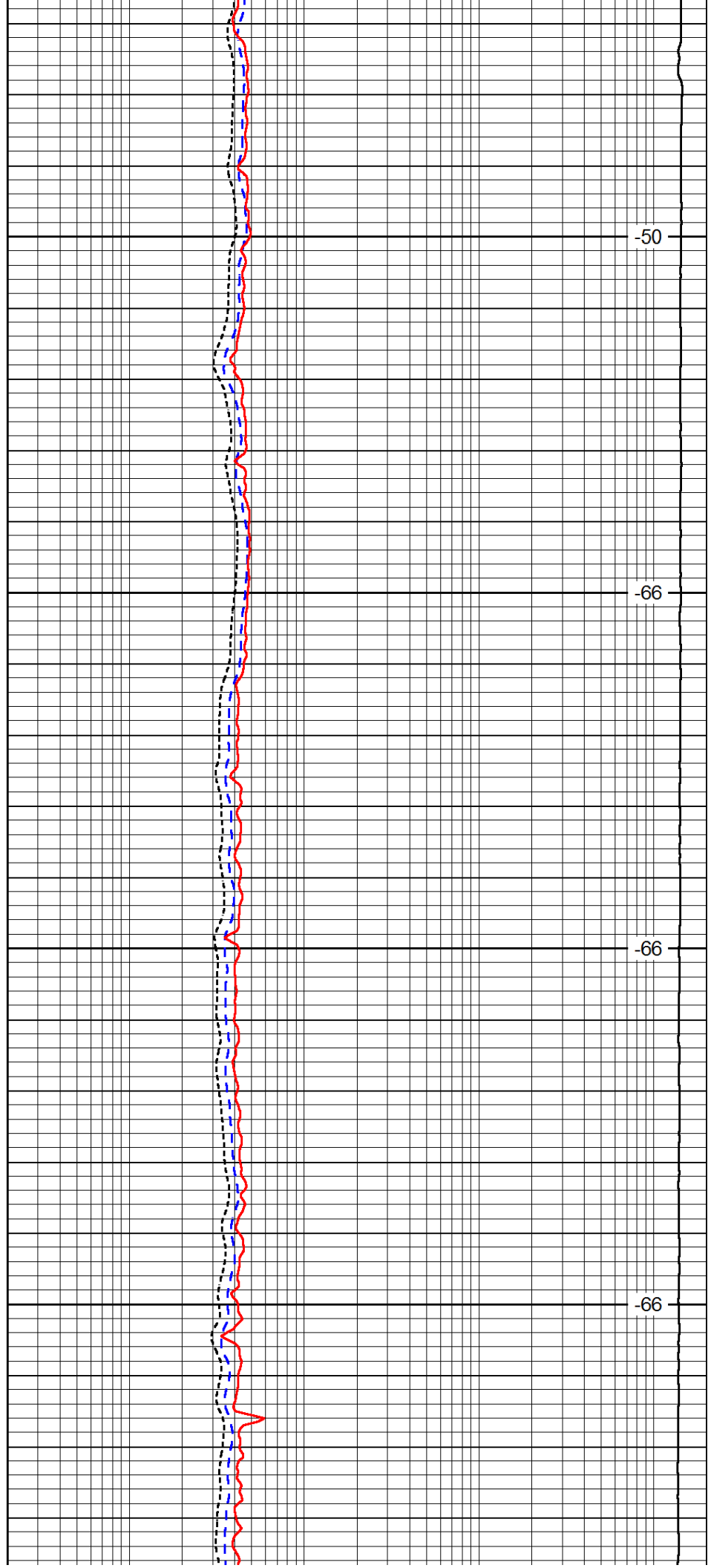


350

400

450

500

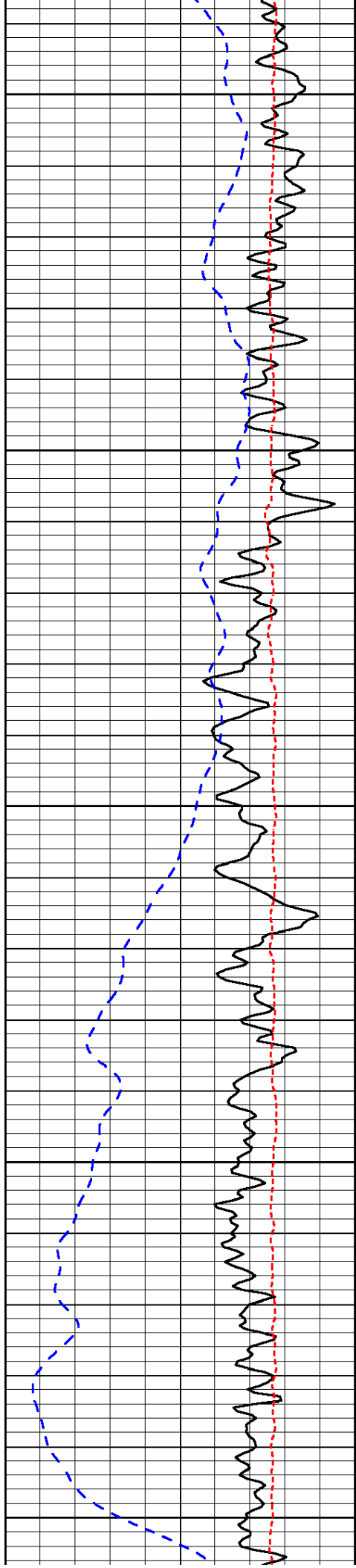


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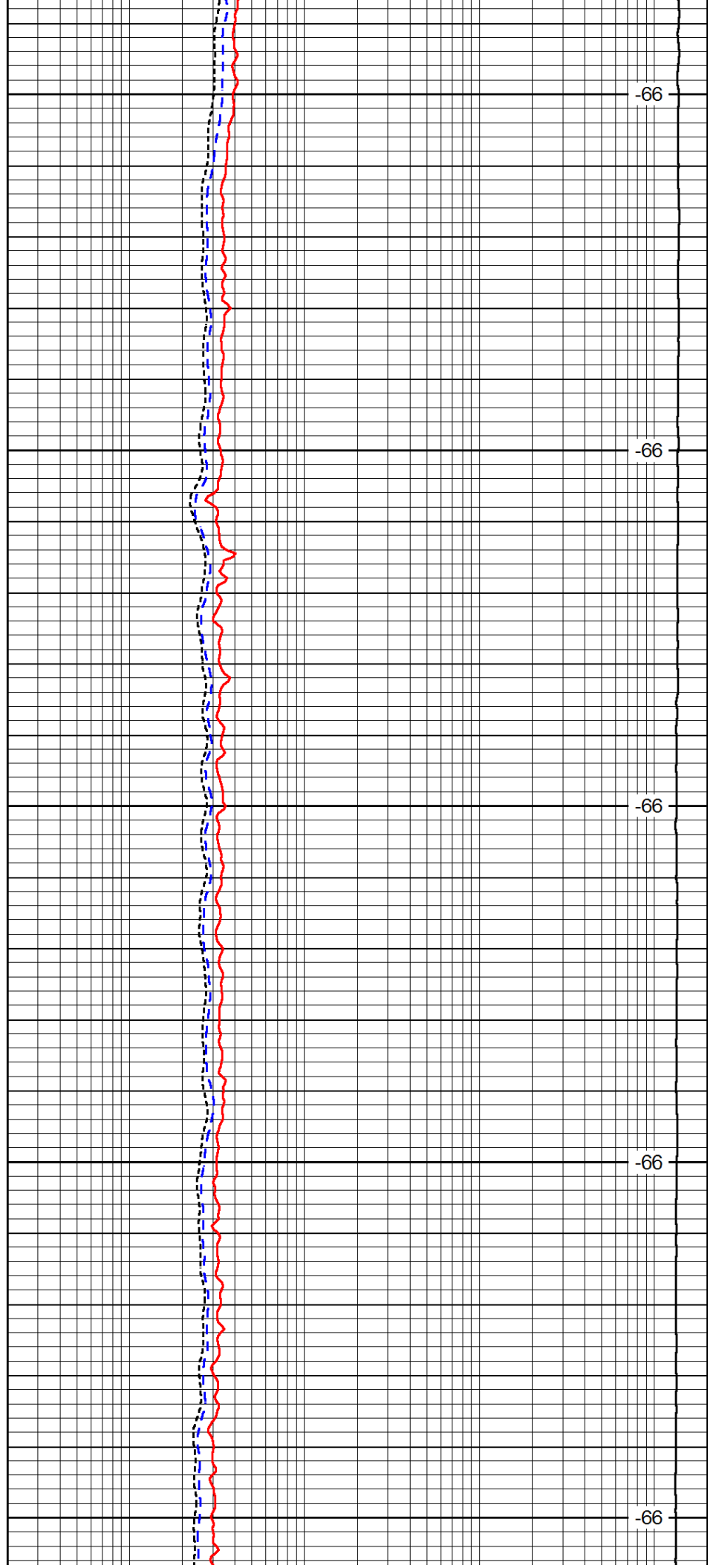
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600

650

700

750



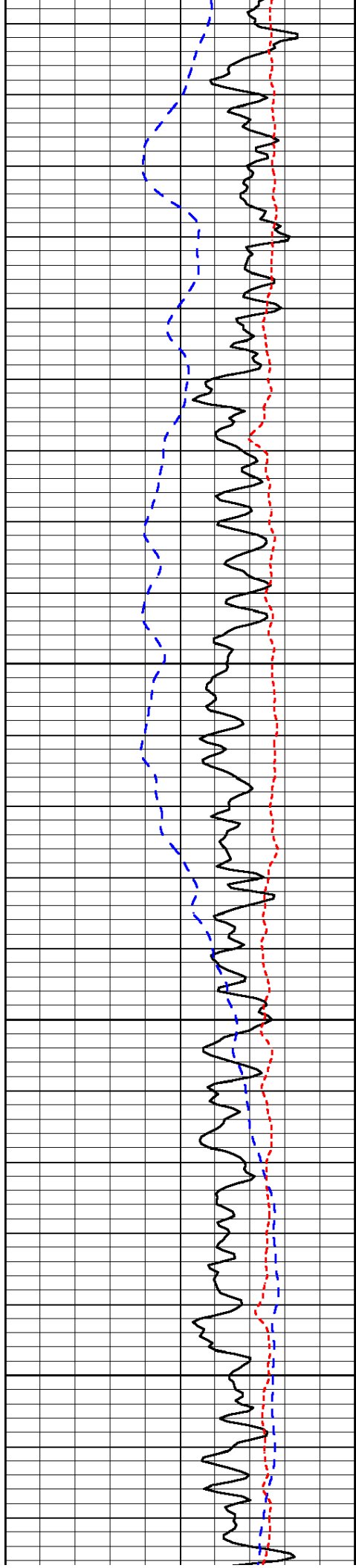
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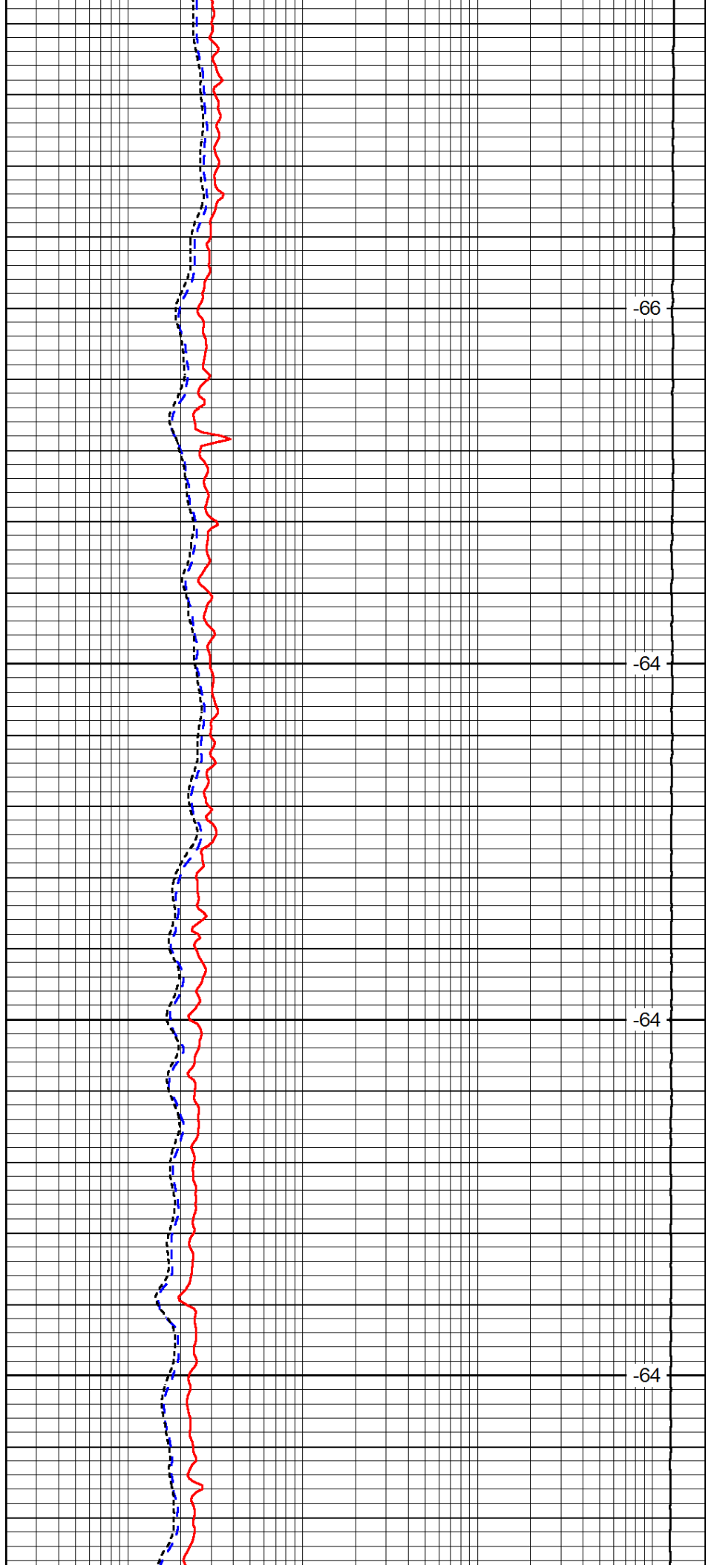


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900

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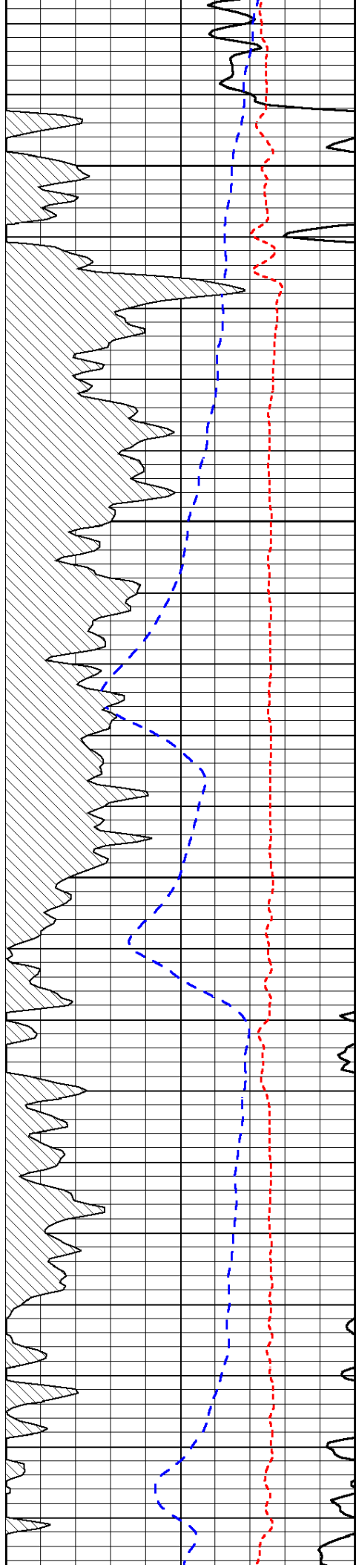


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-64



1000

-64

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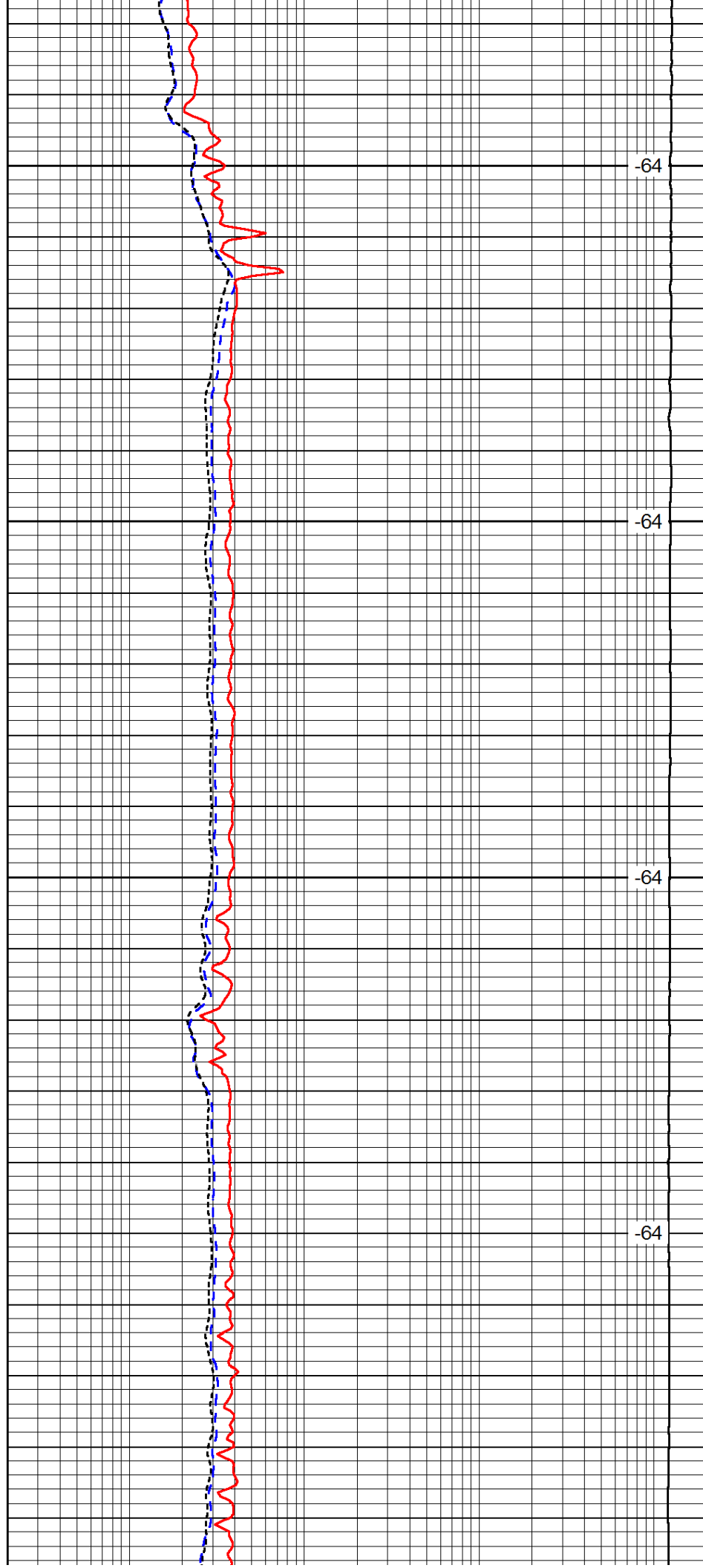
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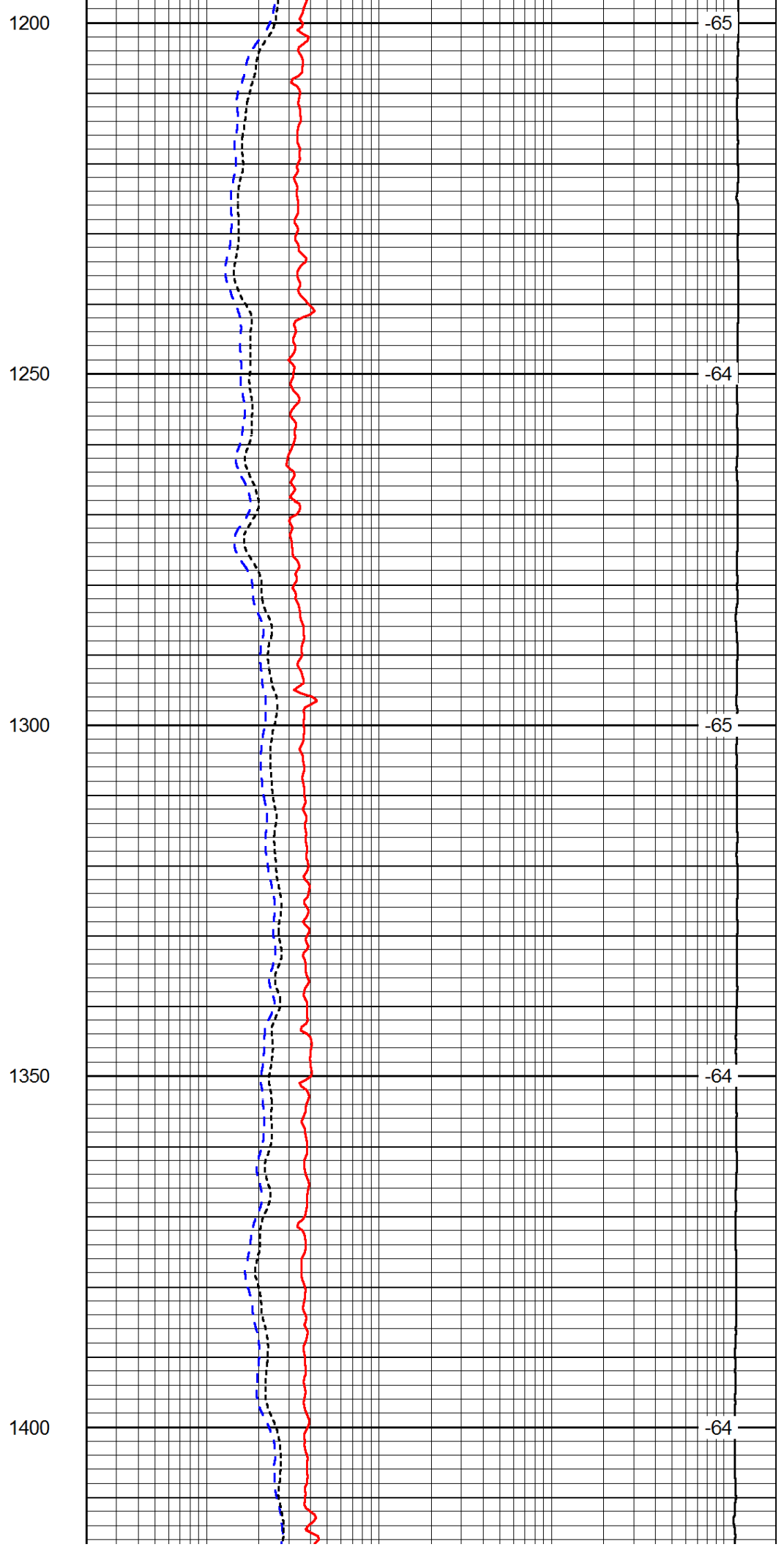
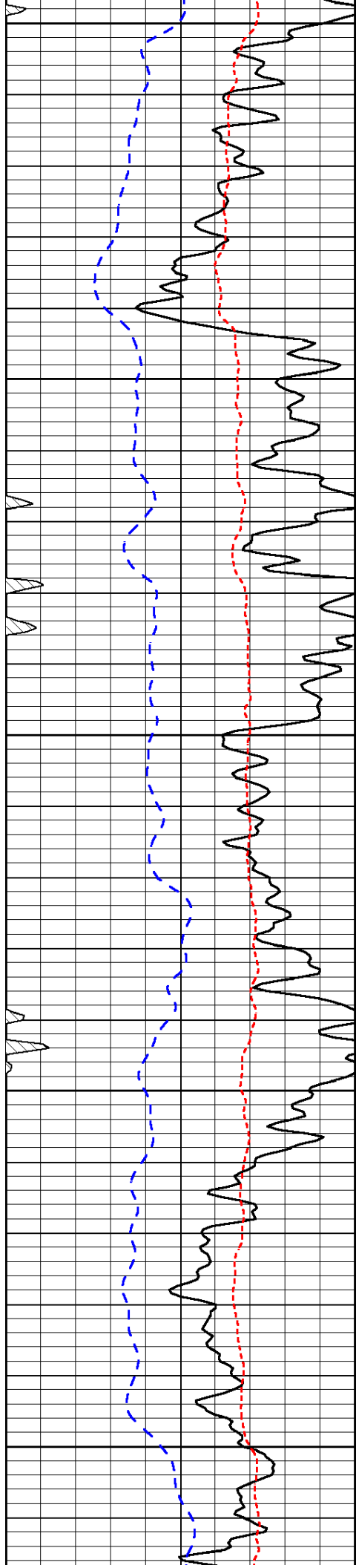
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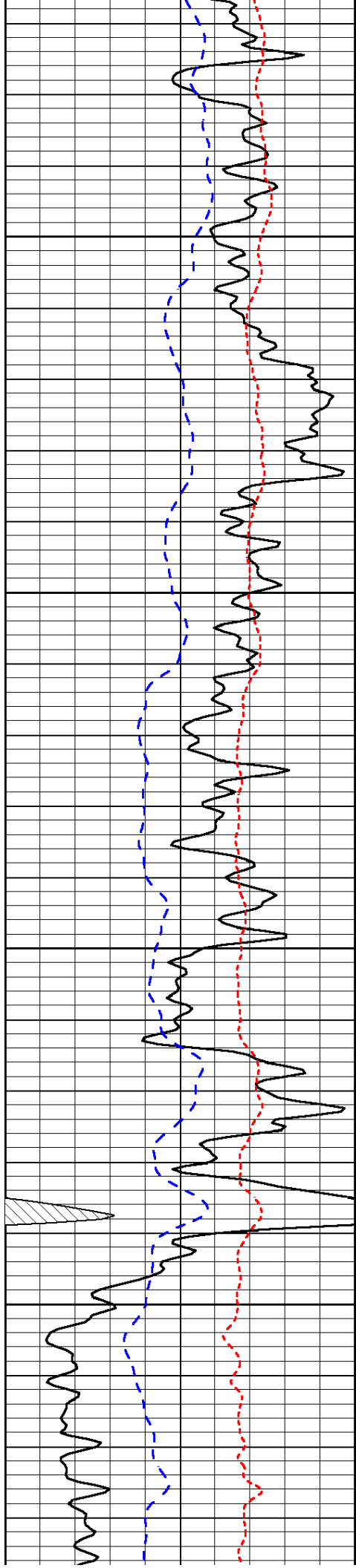
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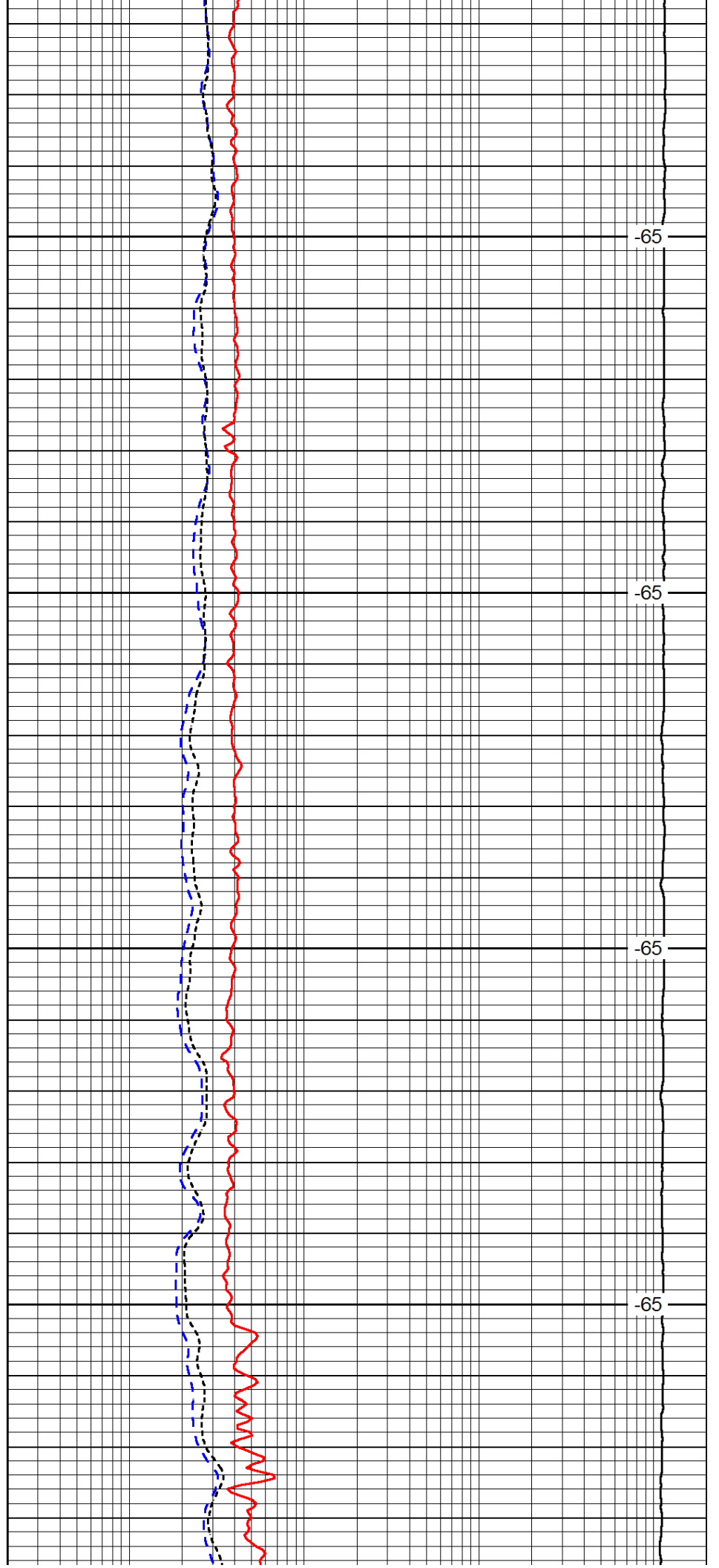


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1550

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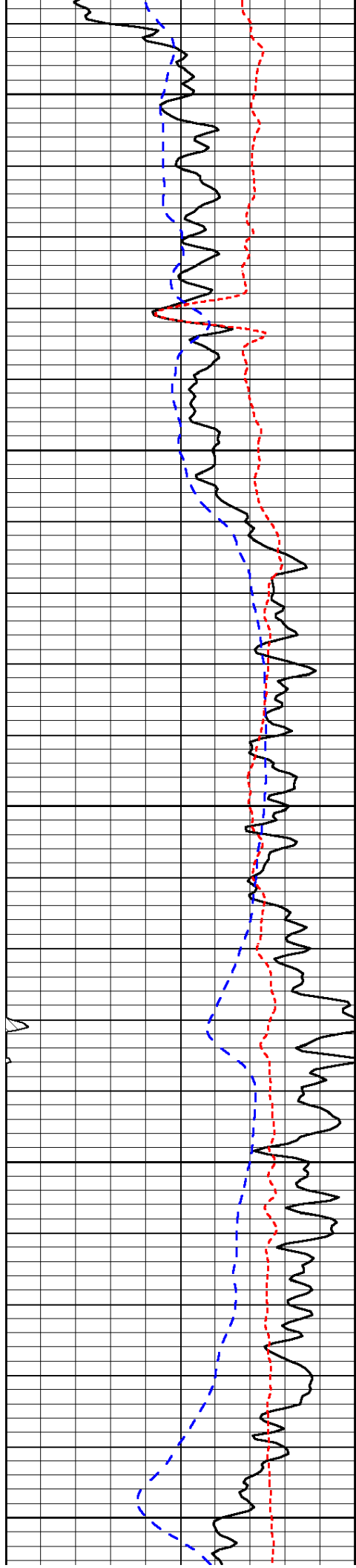


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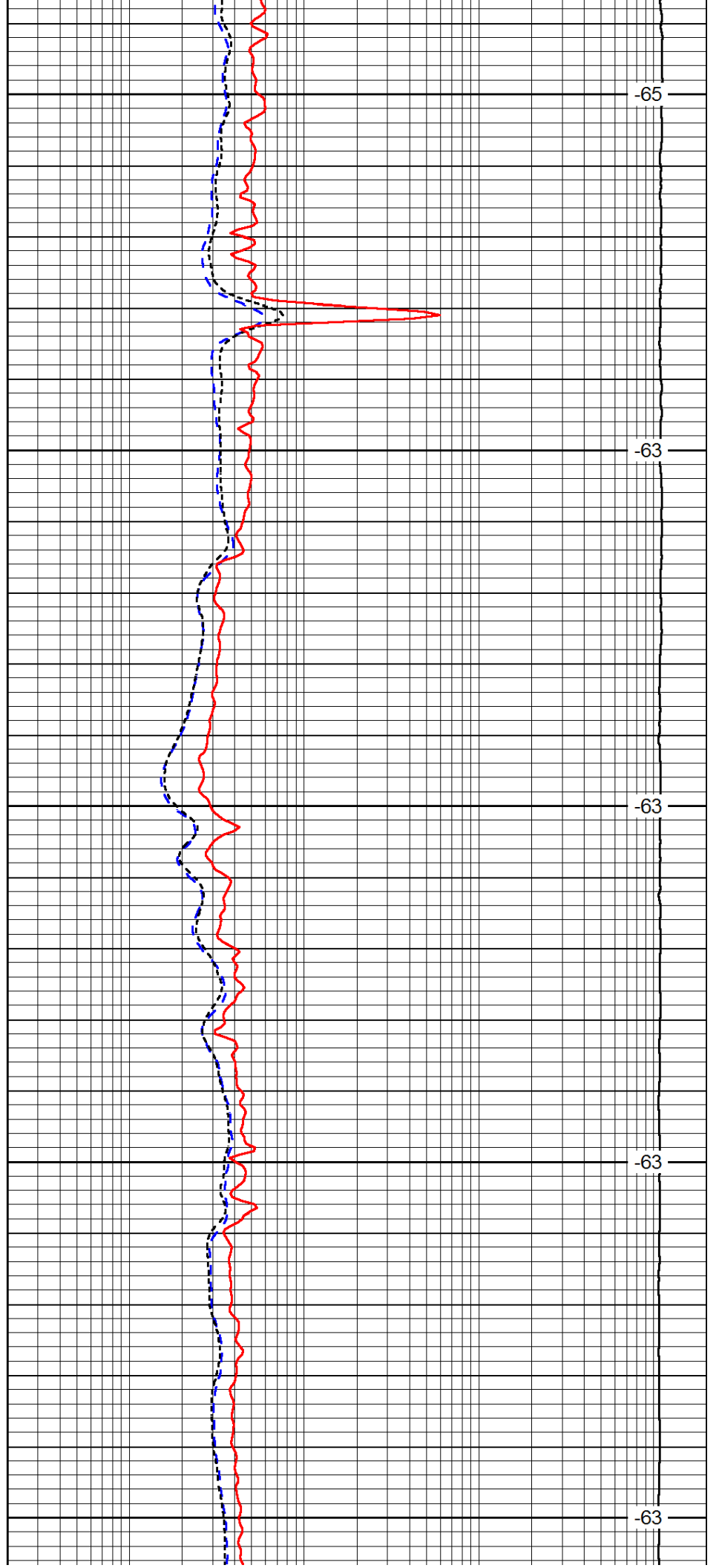
1650

1700

1750

1800

1850



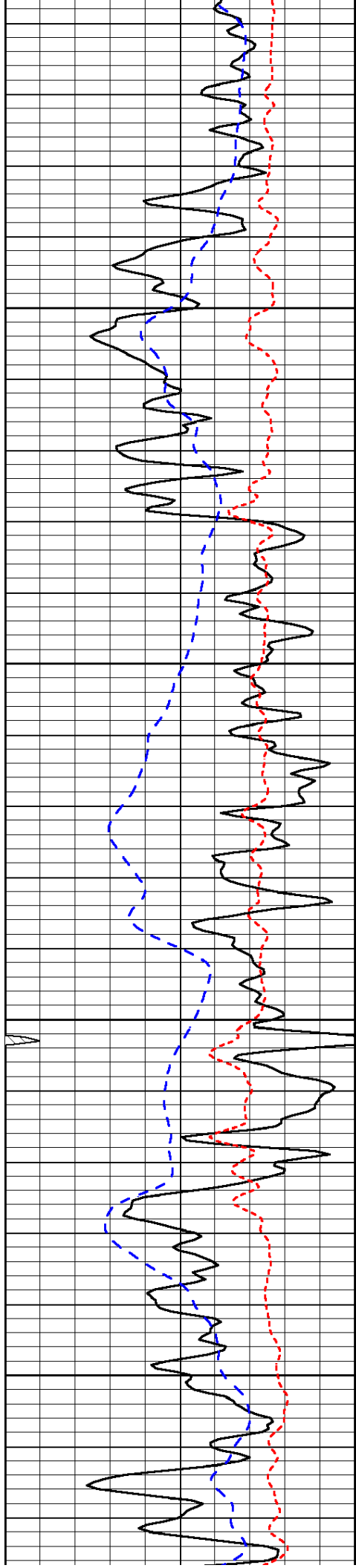
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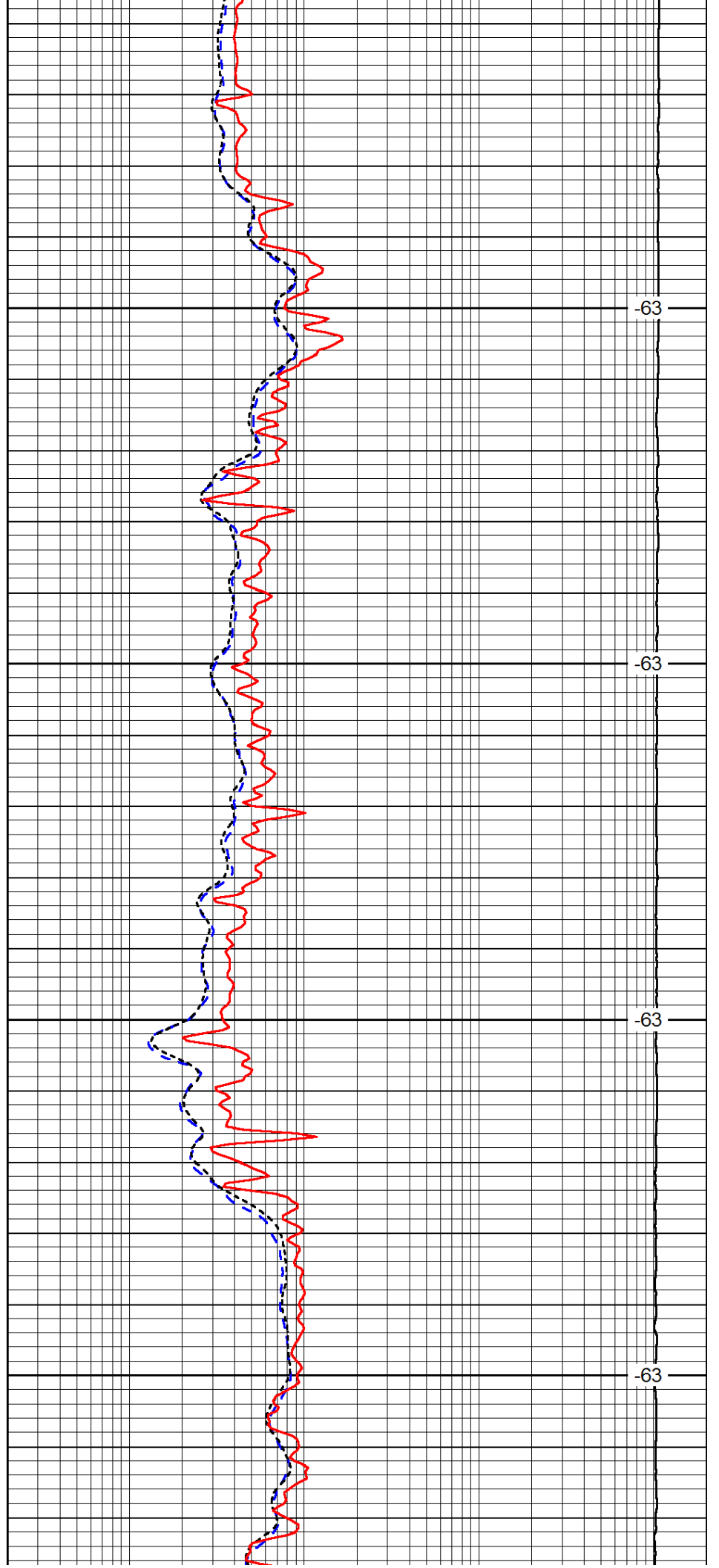


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1950

2000

2050

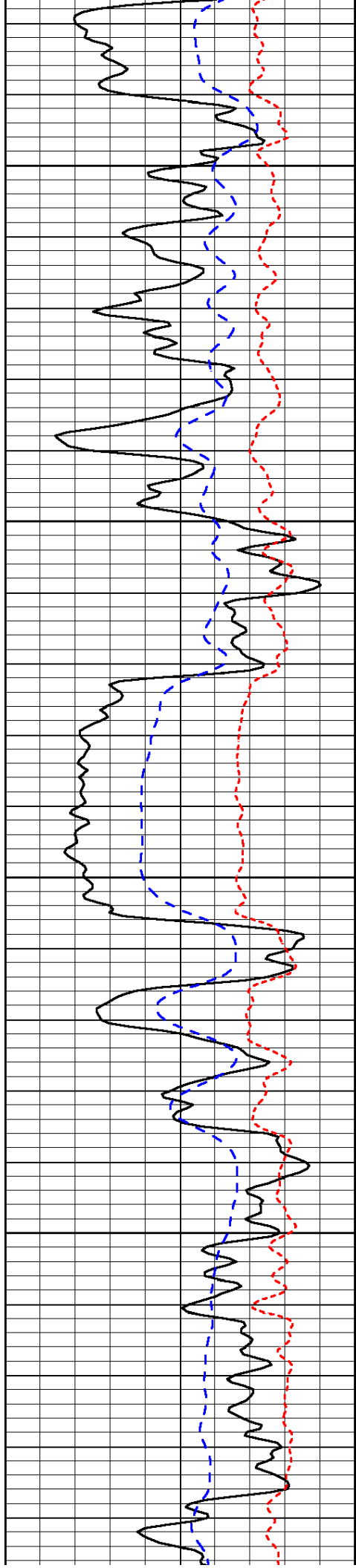


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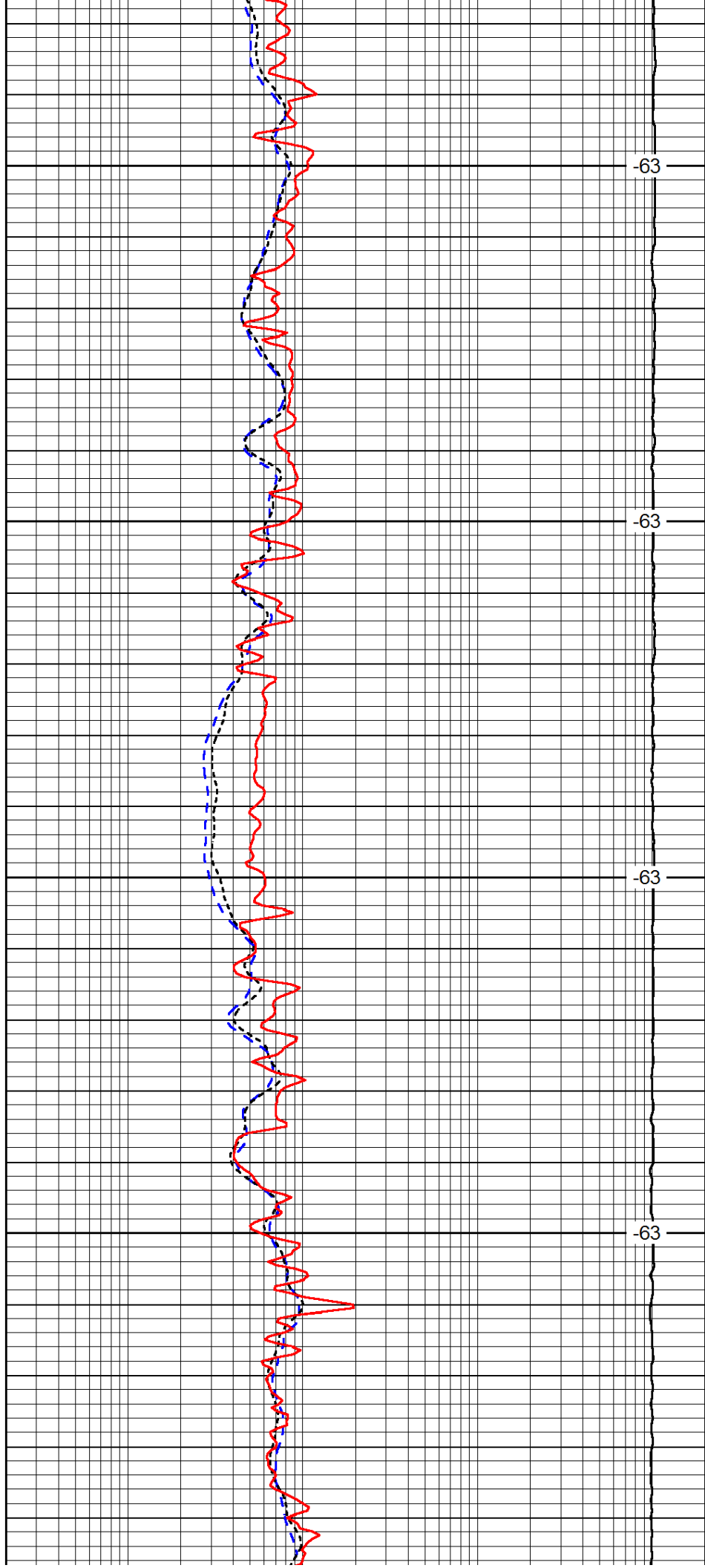


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2150

2200

2250

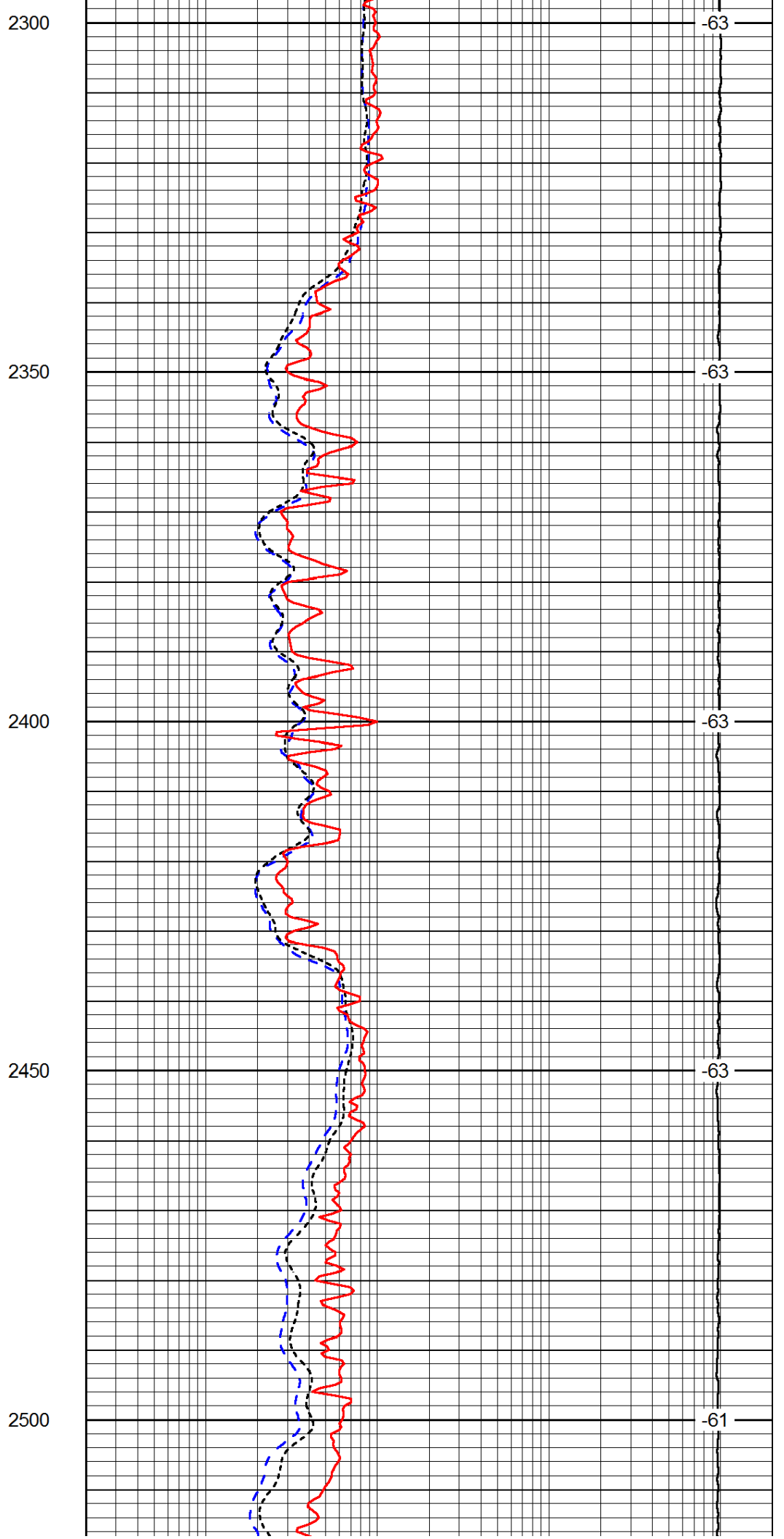
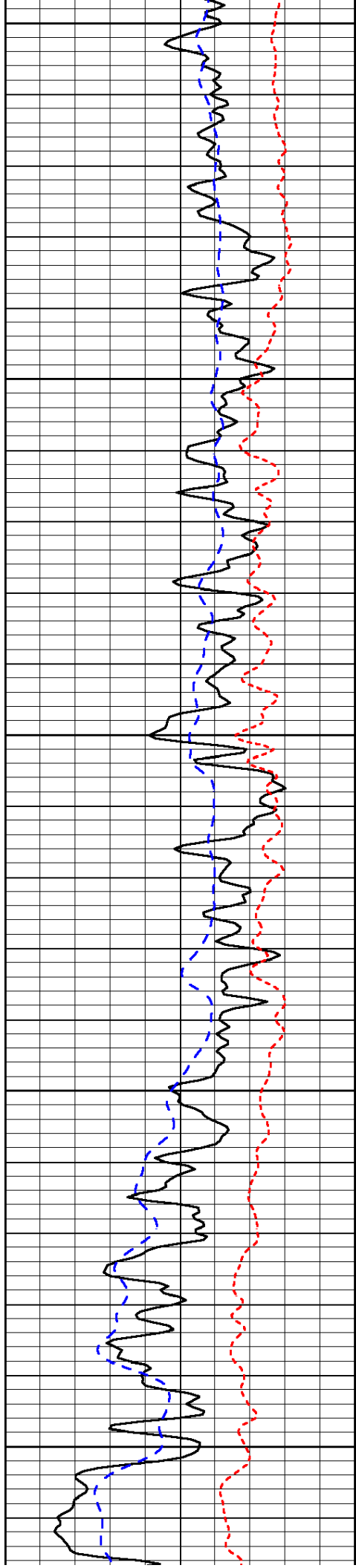


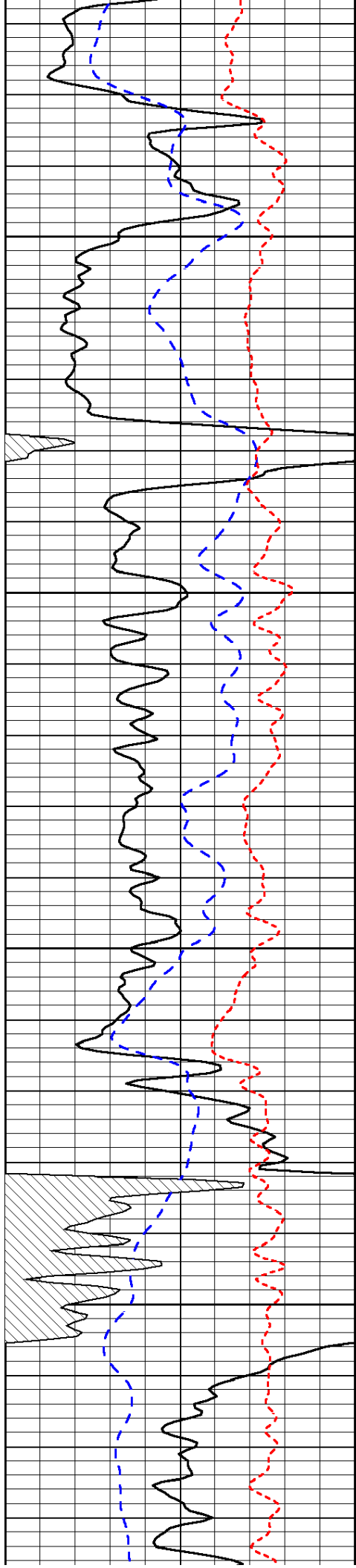
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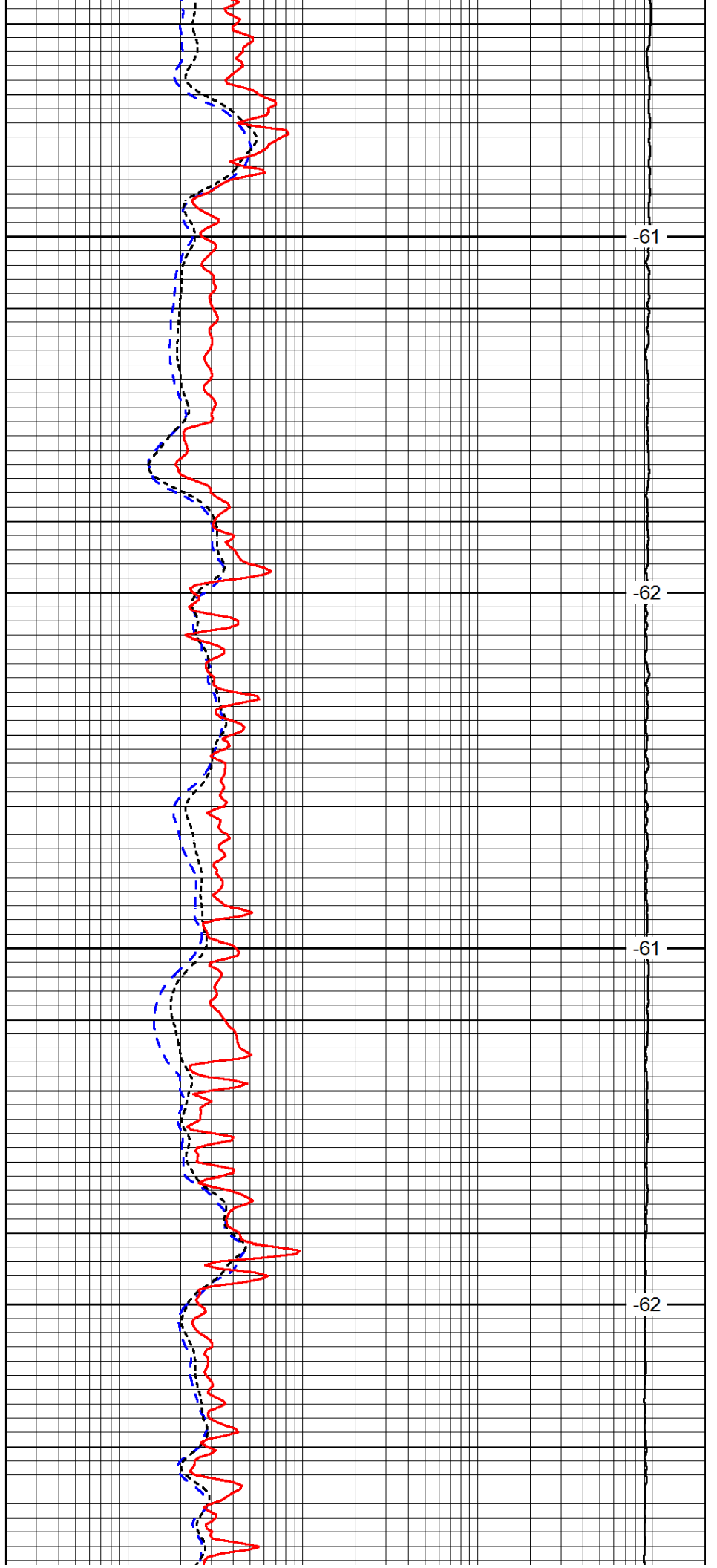


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2600

2650

2700

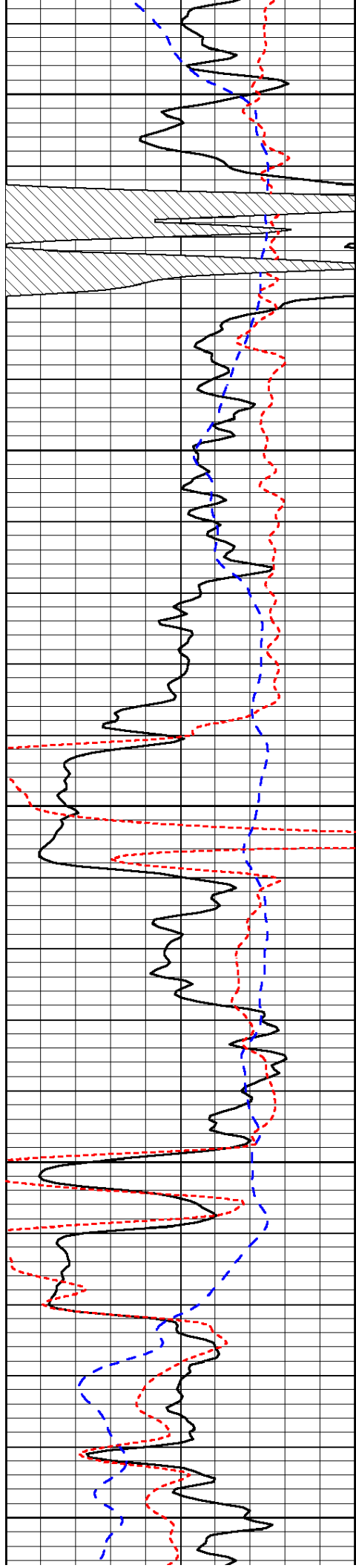


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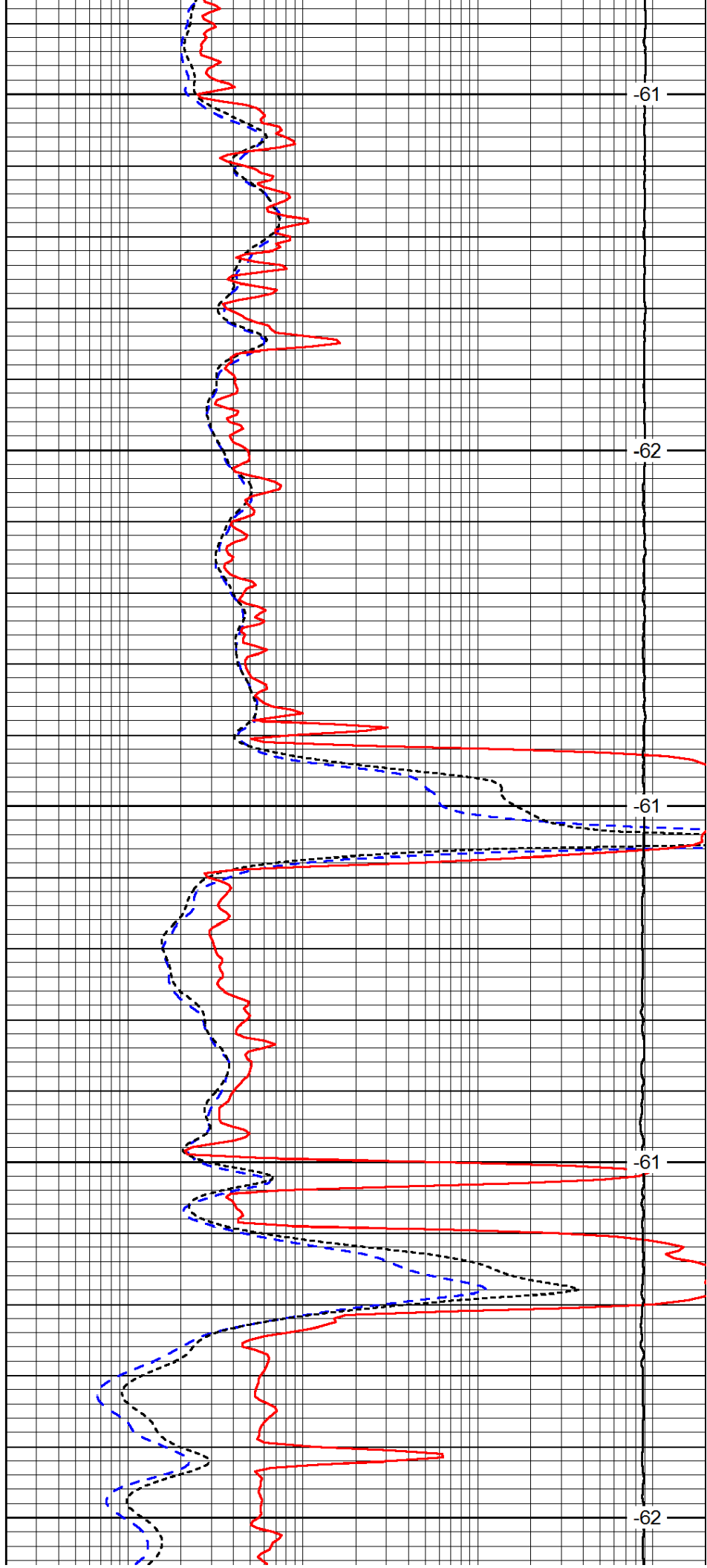
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2900

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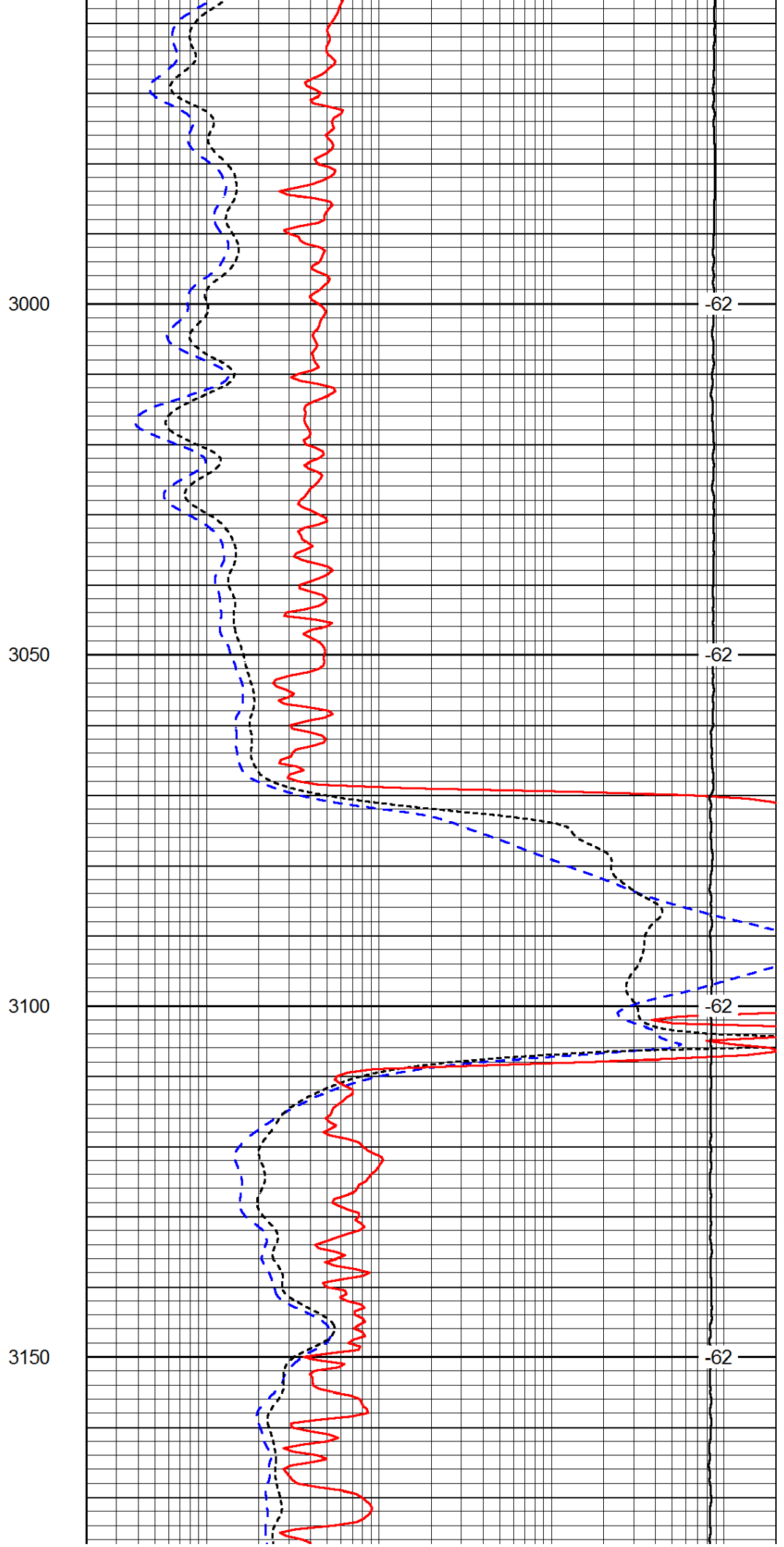
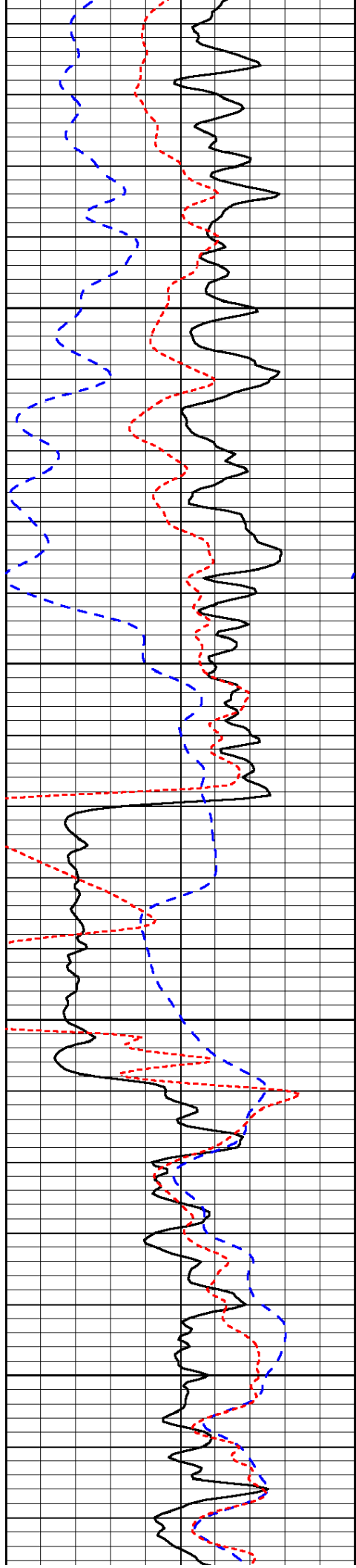
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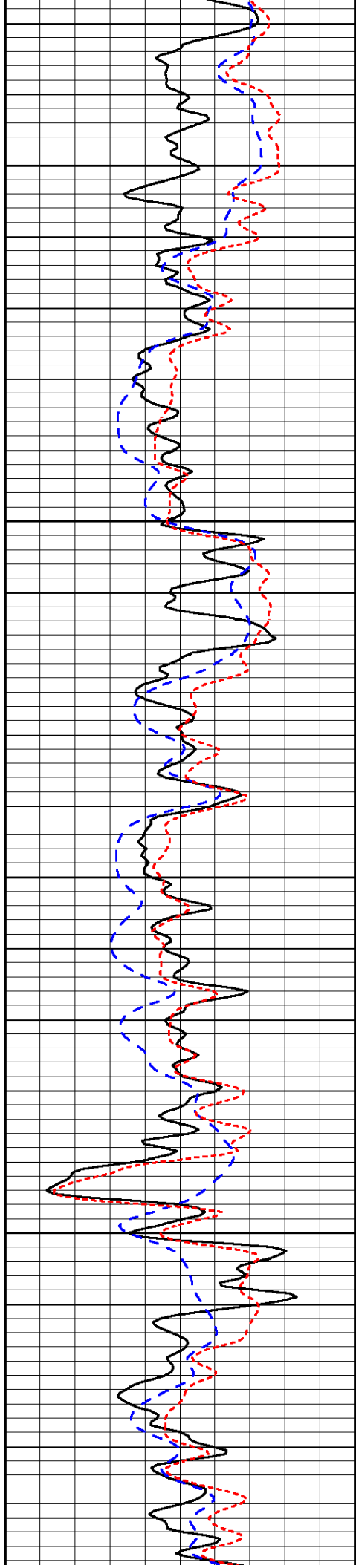
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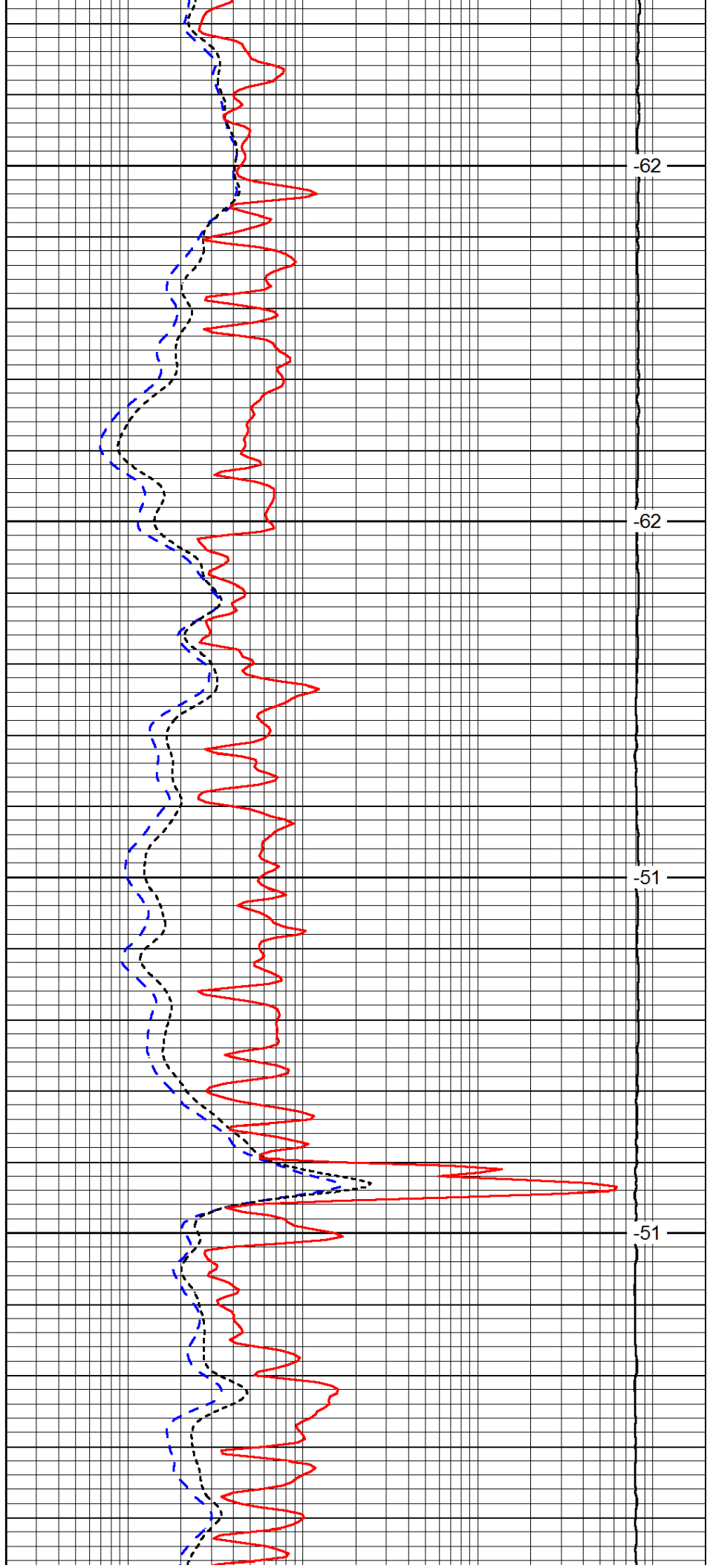


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3250

3300

3350

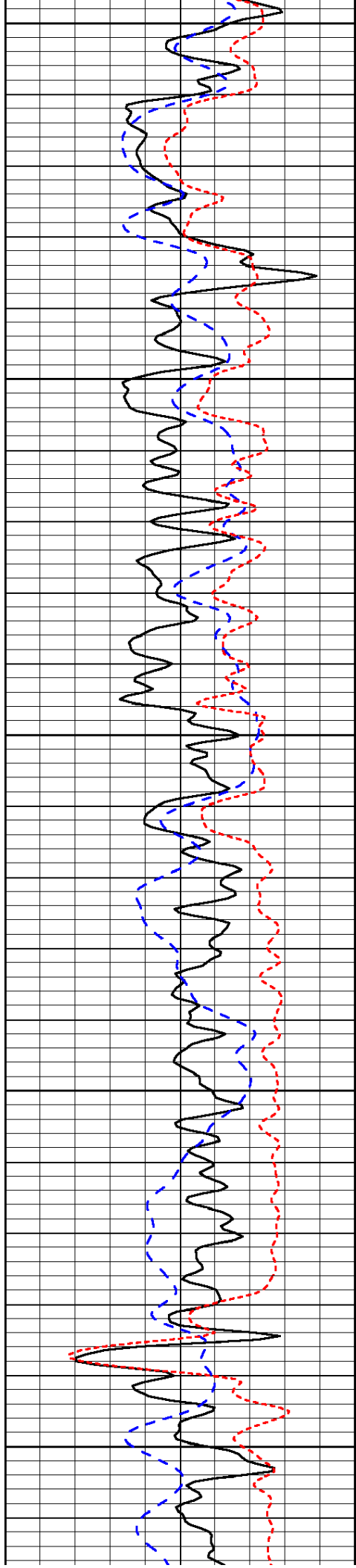


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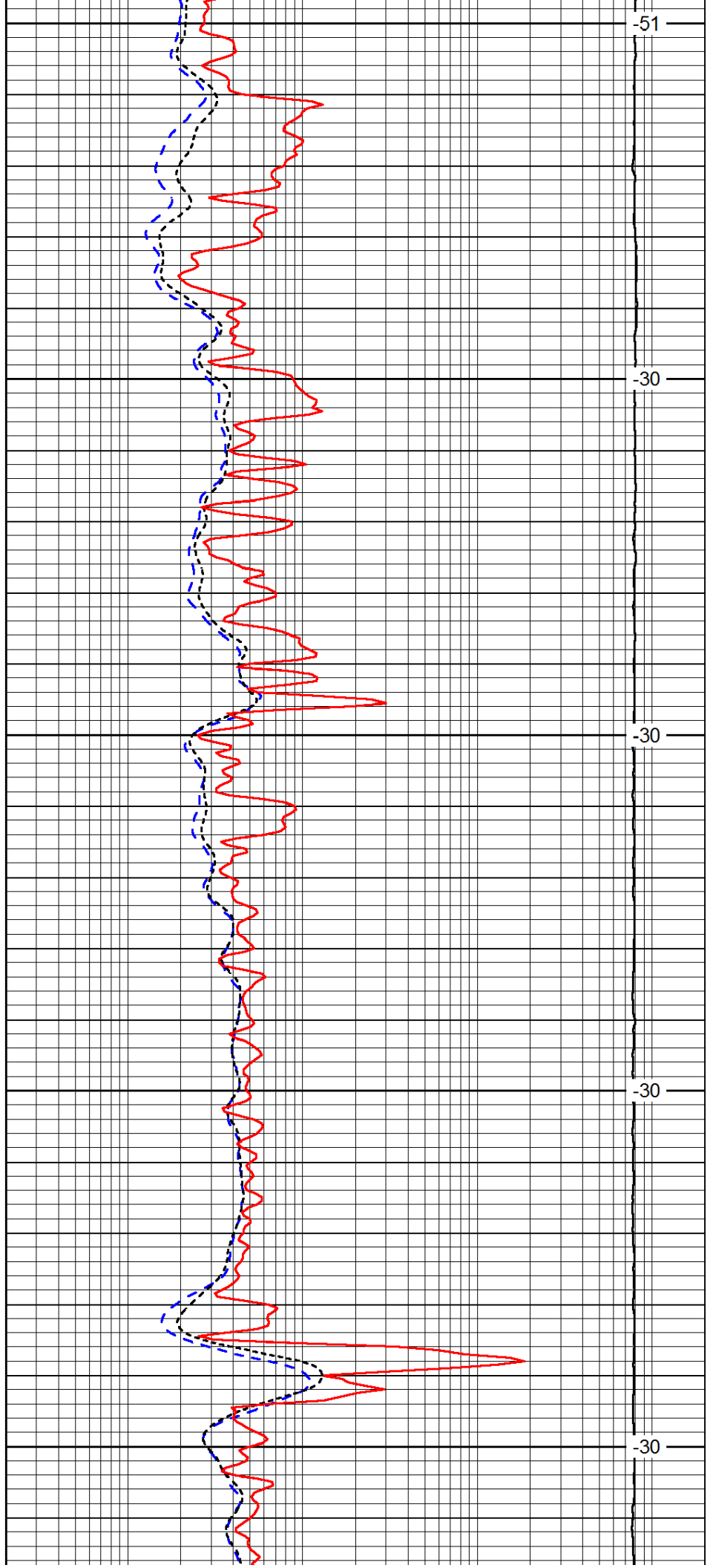
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3500

3550

3600



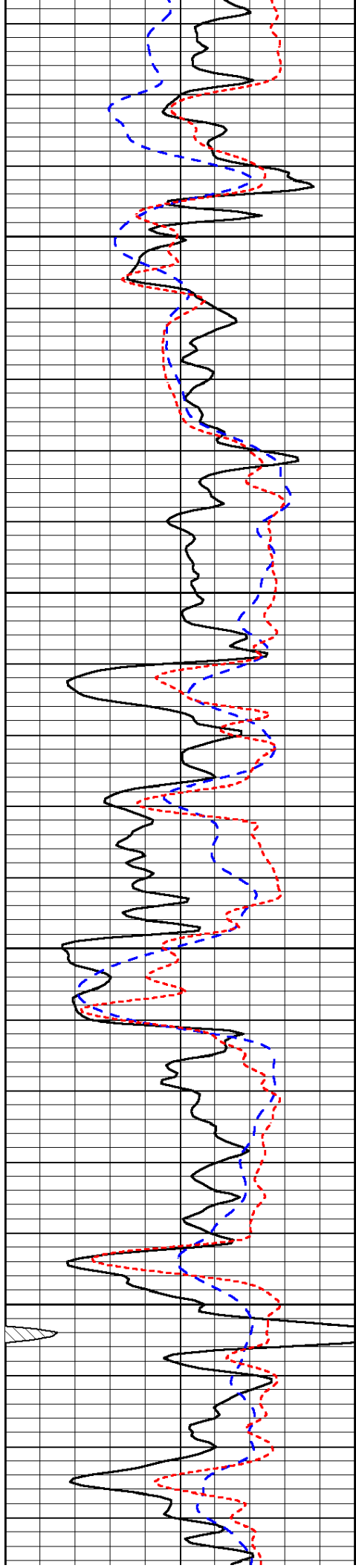
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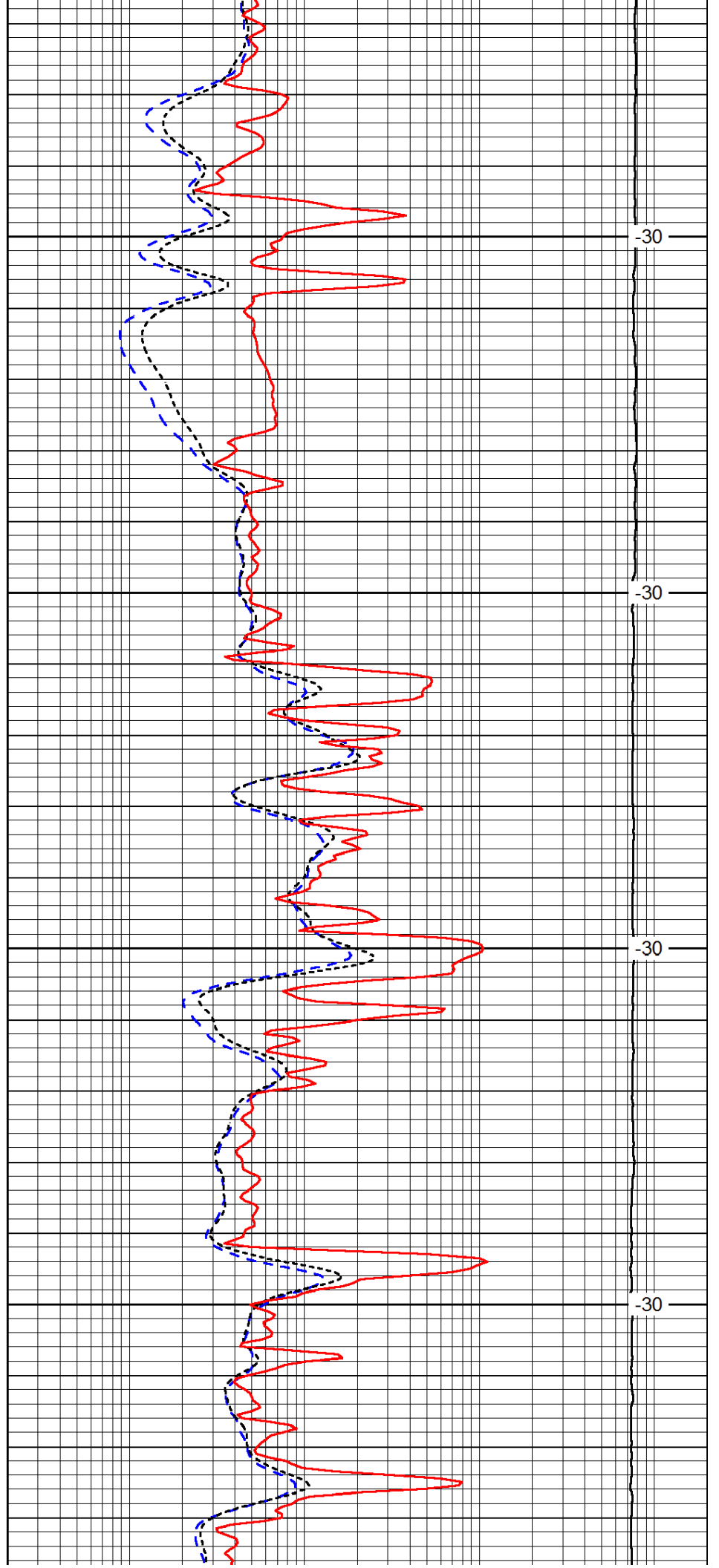


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3750

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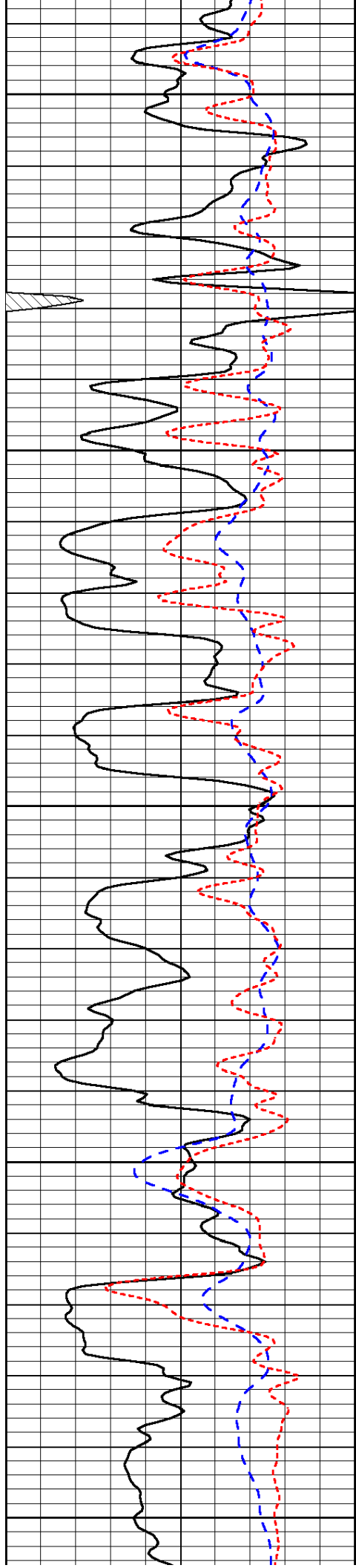


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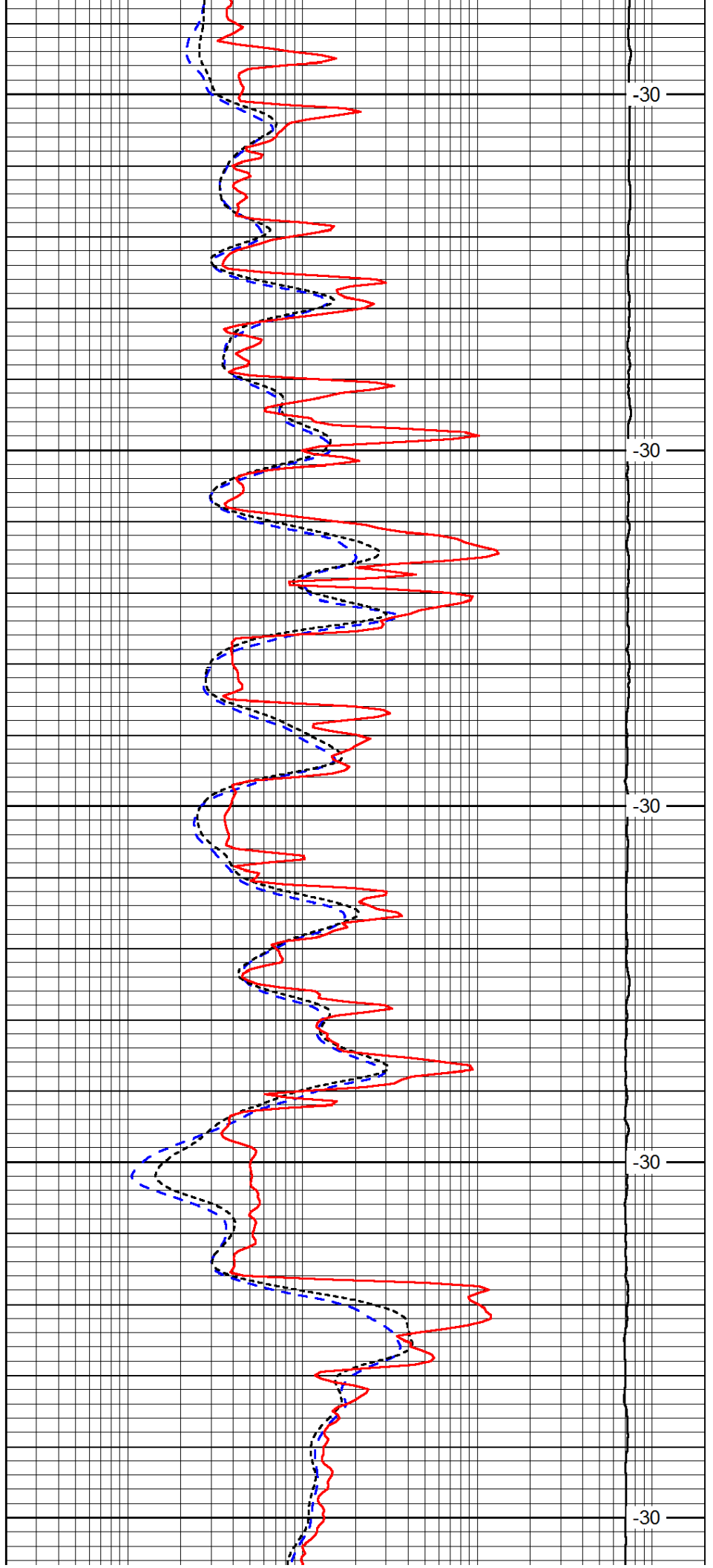
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3900

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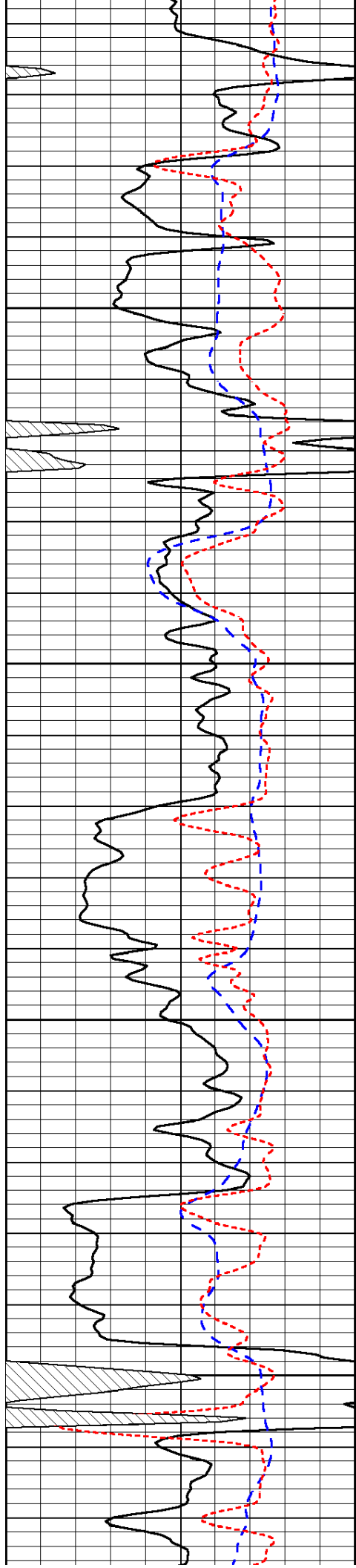
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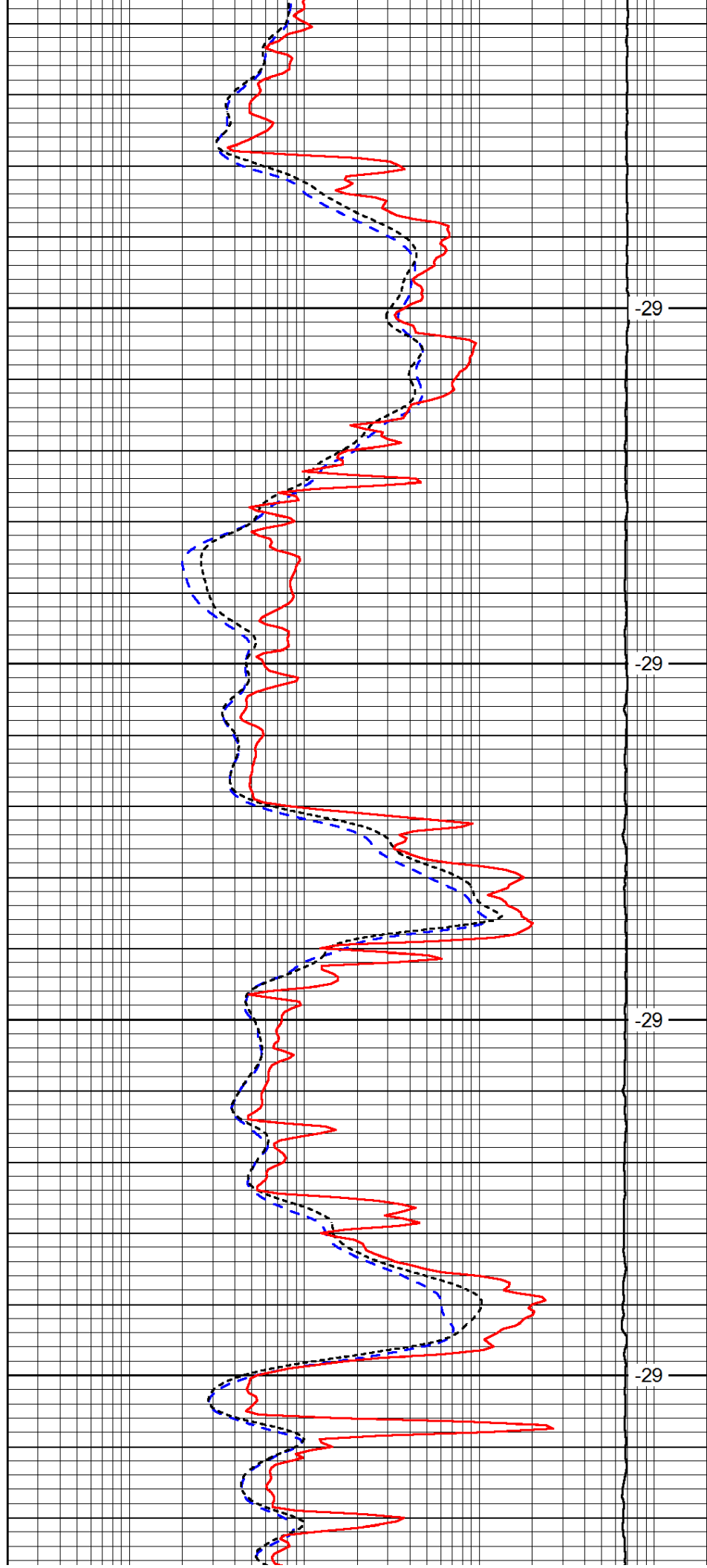


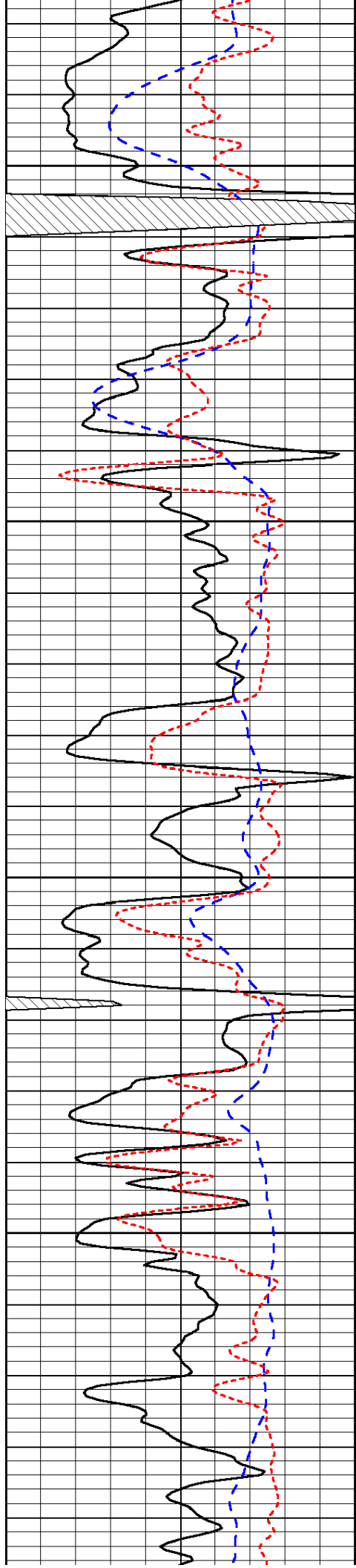
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4150

4200

4250



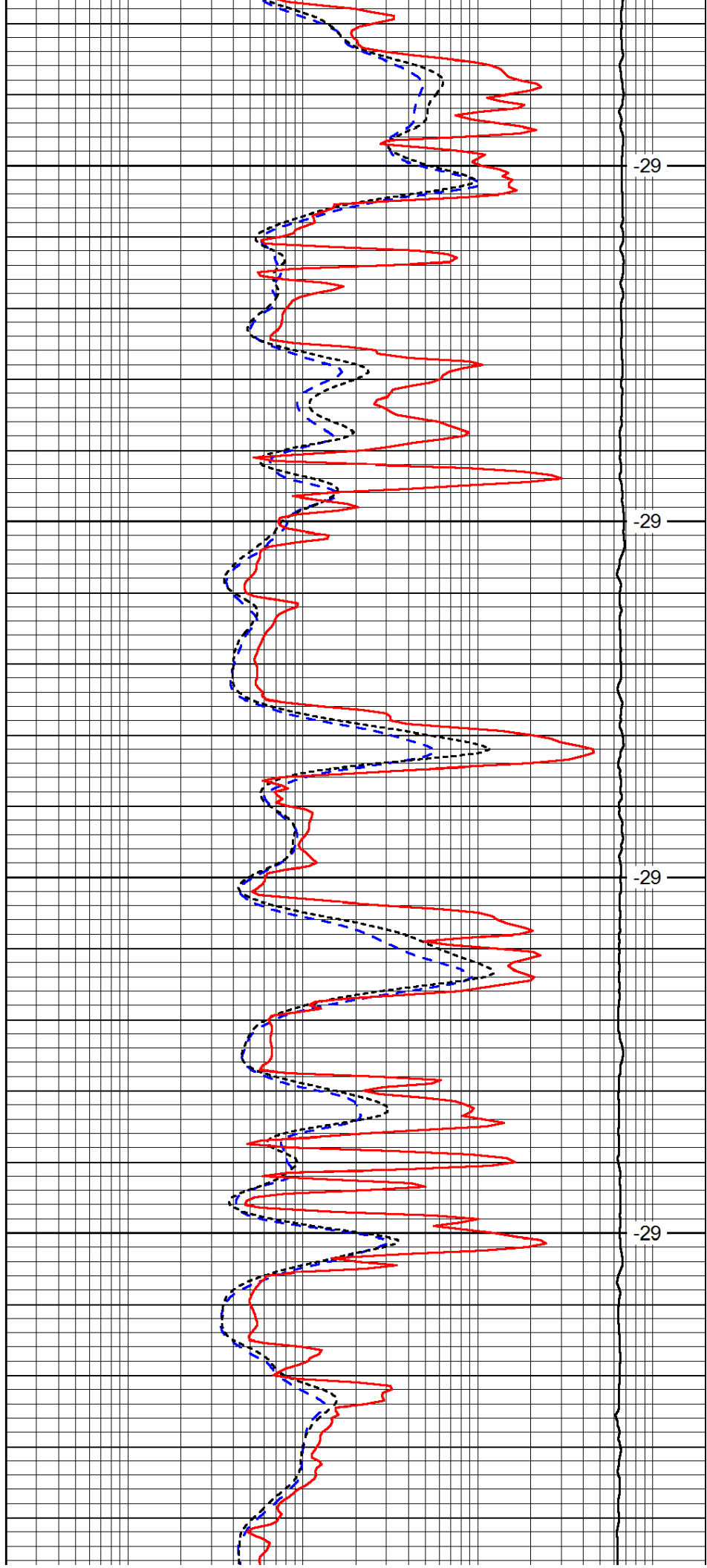


4300

4350

4400

4450

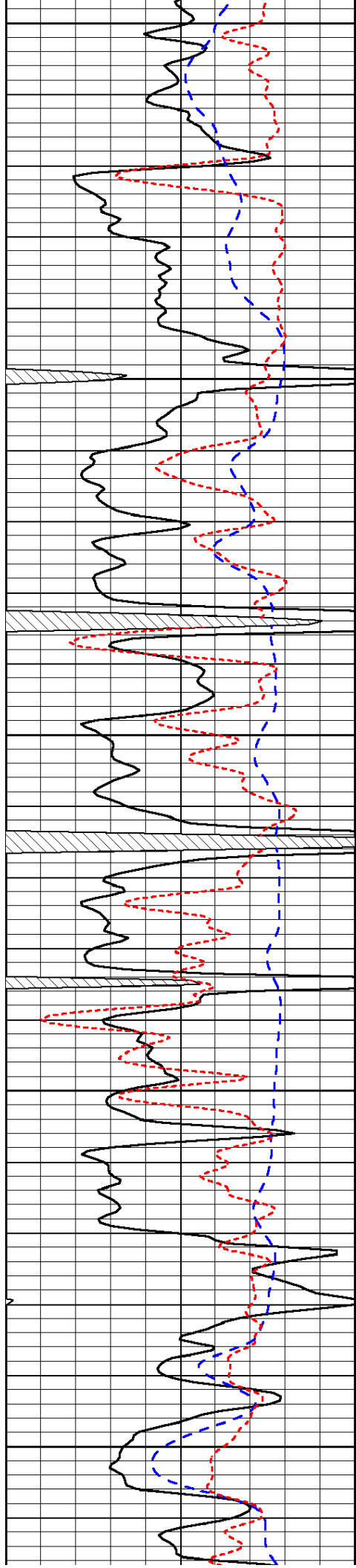


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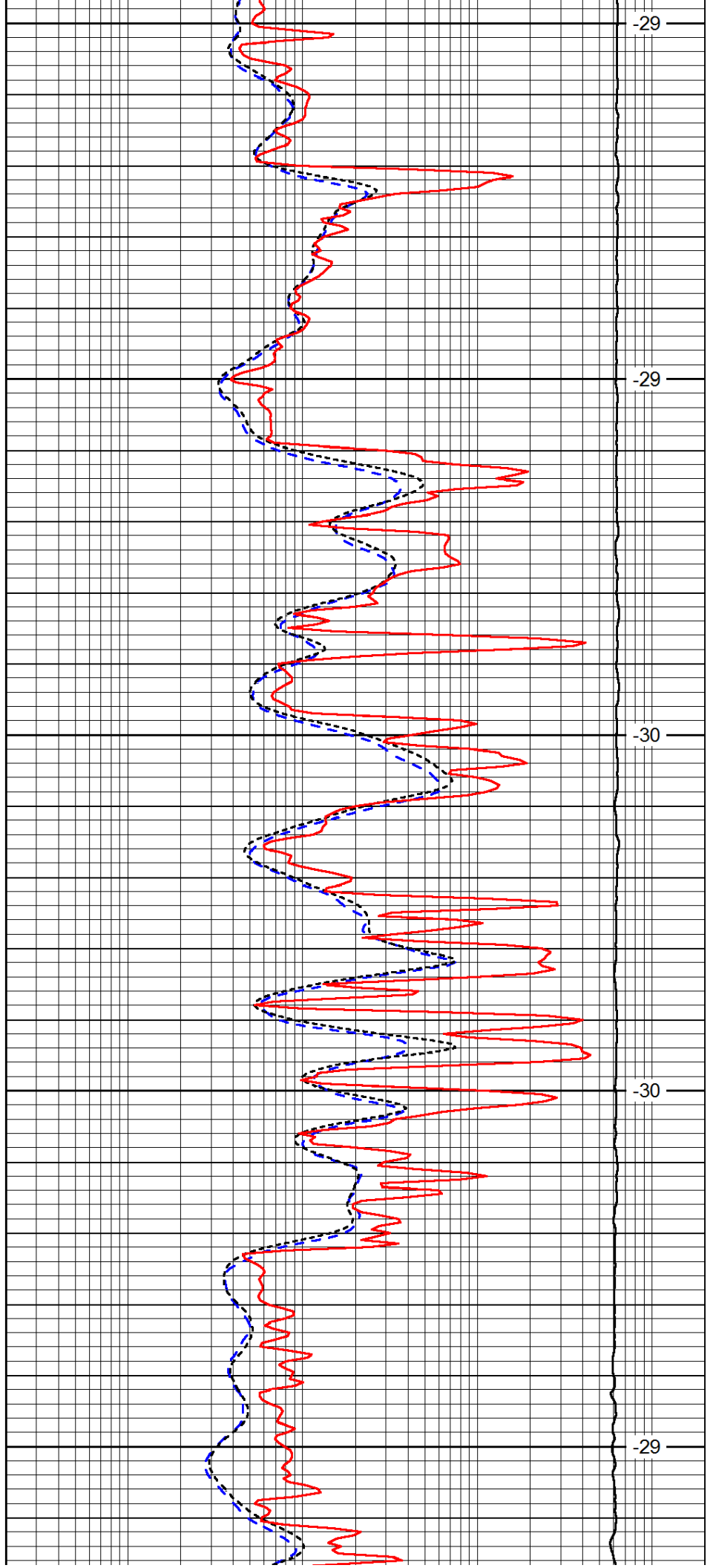
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4550

4600

4650

4700



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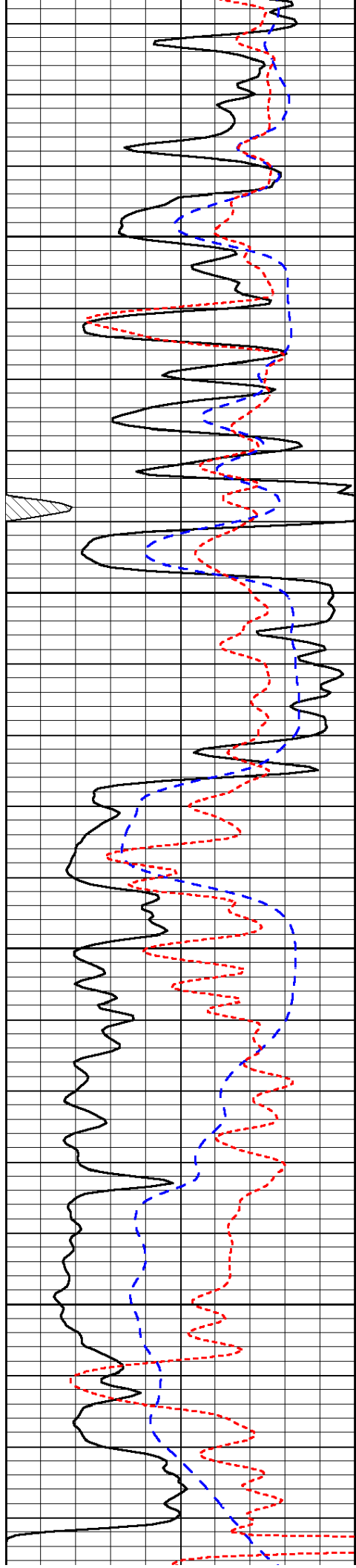
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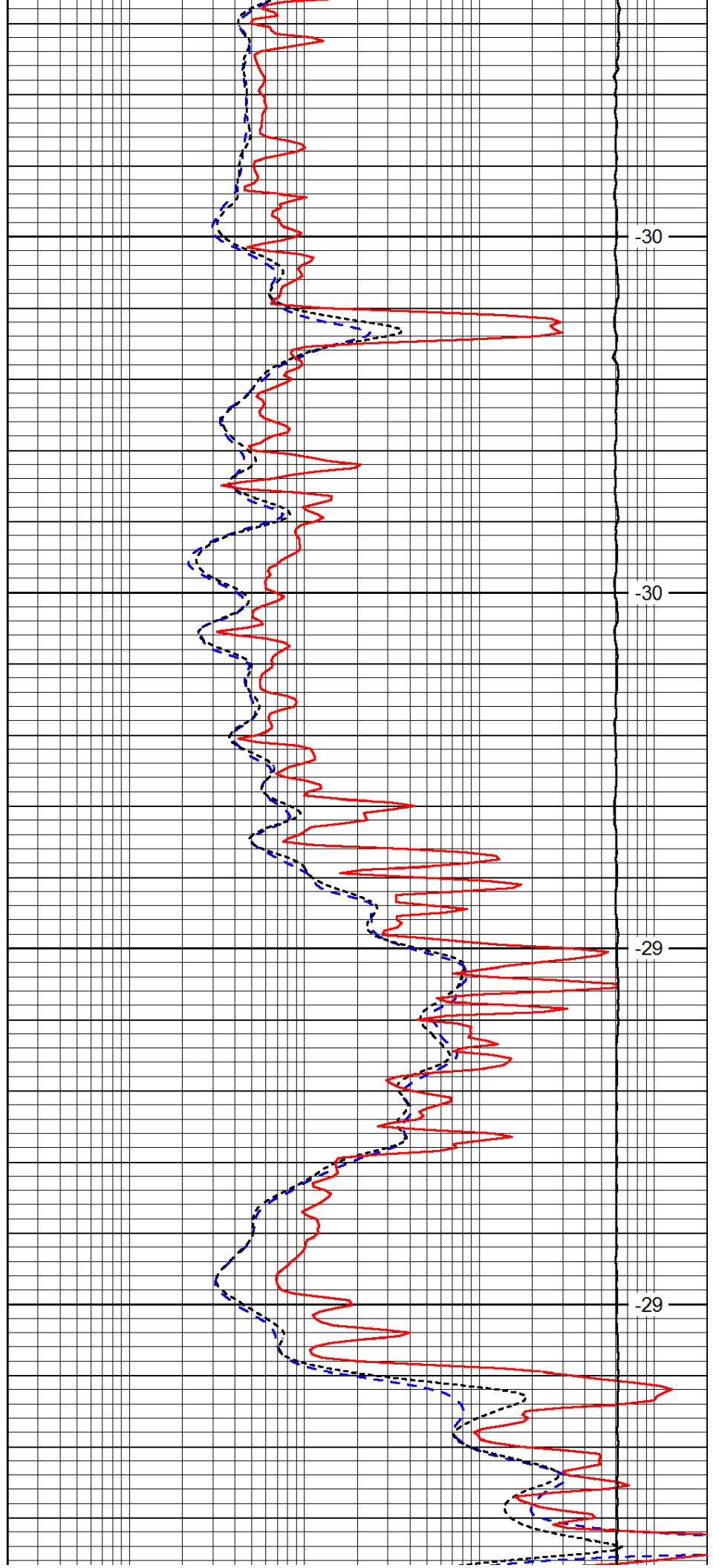


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4900

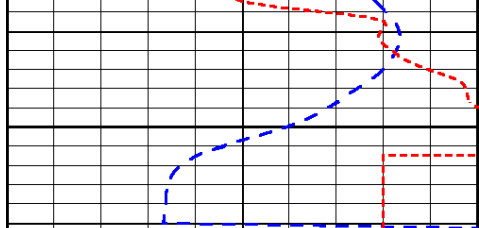


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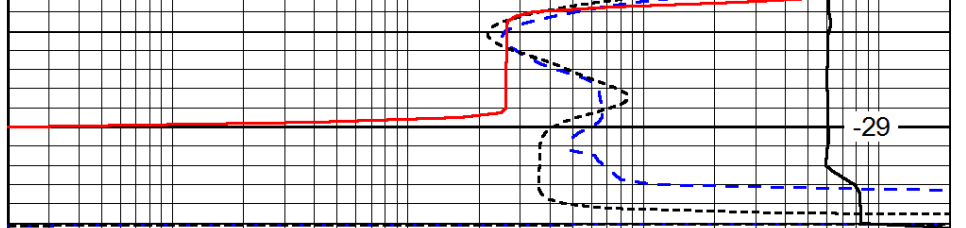
-29

-29



4950

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



-29

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

LSPD