



Pioneer Energy Services

Dual Induction Log

15-109-21,274-00-00

API No.

Company **Murfin Drilling Company, Inc.**

Well **Racette #2-12**

Field **Tom Tom**

County **Logan** State **Kansas**

Location **1320' FNL & 990' FEL**

Sec: **12** Twp: **13S** Rge: **33W**

Other Services
CNL/CDL
MEL/BHCS

Elevation

K.B. 3044
D.F. 3033
G.L. 3033

Permanent Datum **Ground Level** Elevation **3033**
Log Measured From **Kelly Bushing** 11 Ft. Above Perm. Datum
Drilling Measured From **Kelly Bushing**

Date	4/20/2014	
Run Number	One	
Depth Driller	4770	
Depth Logger	4773	
Bottom Logged Interval	4772	
Top Log Interval	00	
Casing Driller	8.625 @ 225	
Casing Logger	225	
Bit Size	7.875	
Type Fluid in Hole	Chemical	
Salinity, ppm CL	9000	
Density / Viscosity	9.4 57	
pH / Fluid Loss	10.0 9.2	
Source of Sample	Flowline	
Rm @ Meas. Temp	0.58 @ 67	
Rmf @ Meas. Temp	0.44 @ 67	
Rmc @ Meas. Temp	0.78 @ 67	
Source of Rmf / Rmc	Charts	
Rm @ BHT	0.31 @ 124	
Operating Rig Time	5 Hours	
Max Rec. Temp. F	124	
Equipment Number	15	
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

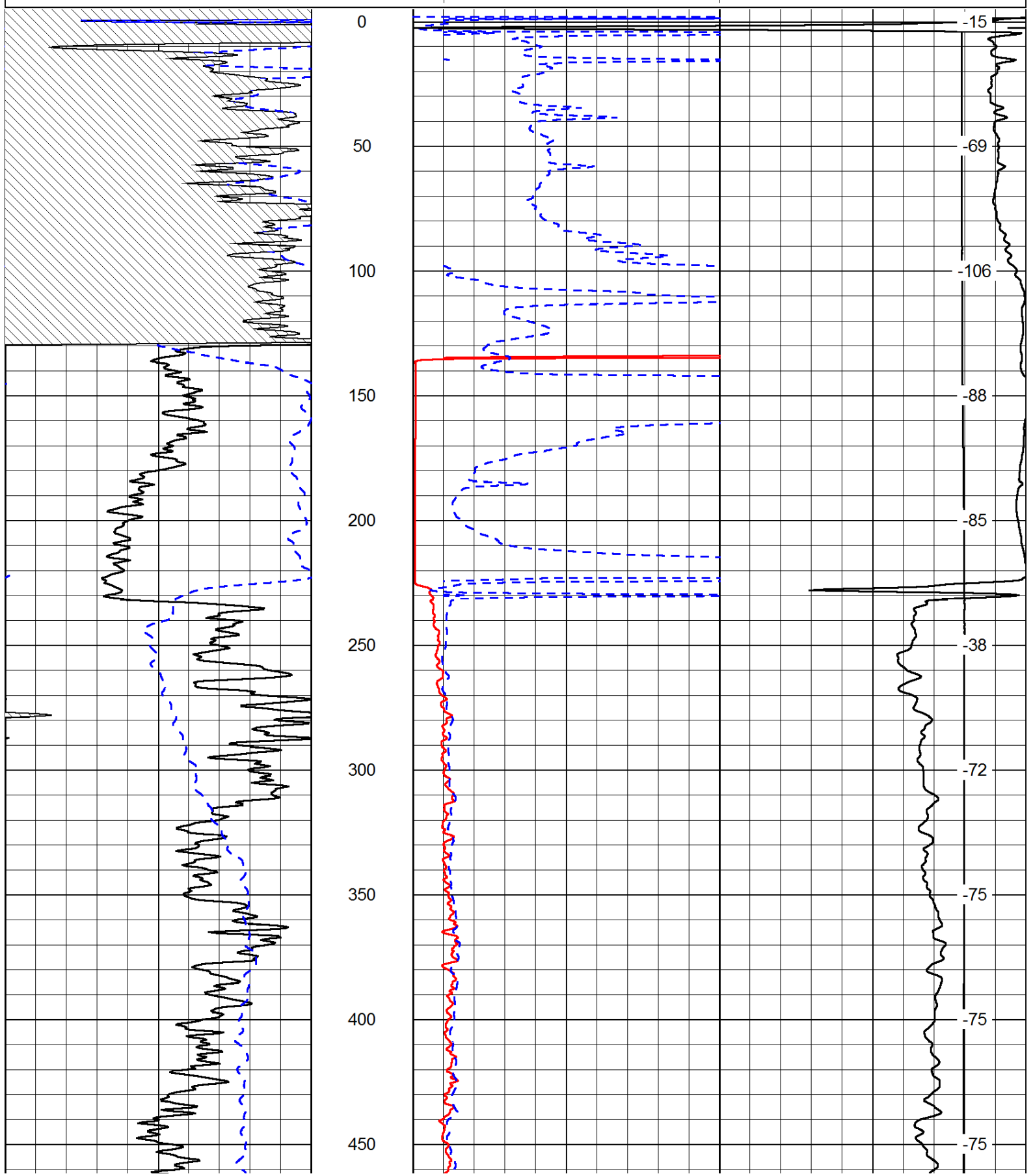
Thank you for using Pioneer Energy Services
www.pioneerenergy.com
 785 625 3858

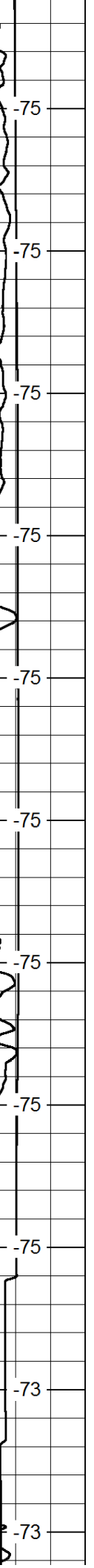
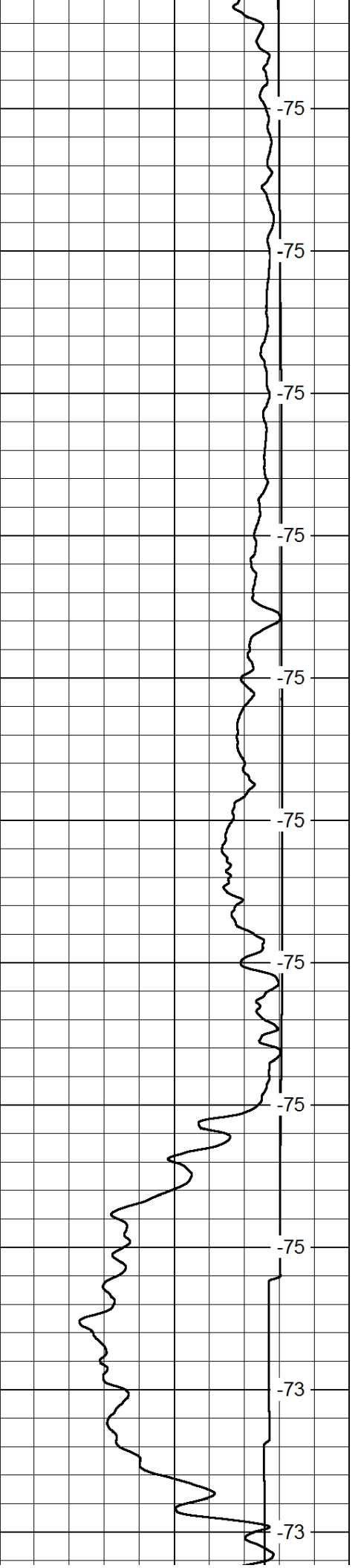
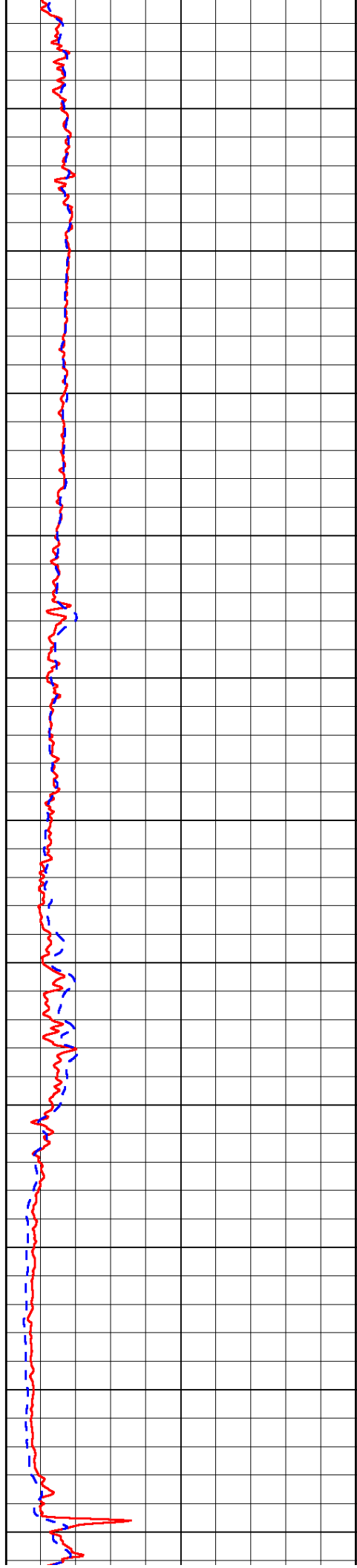
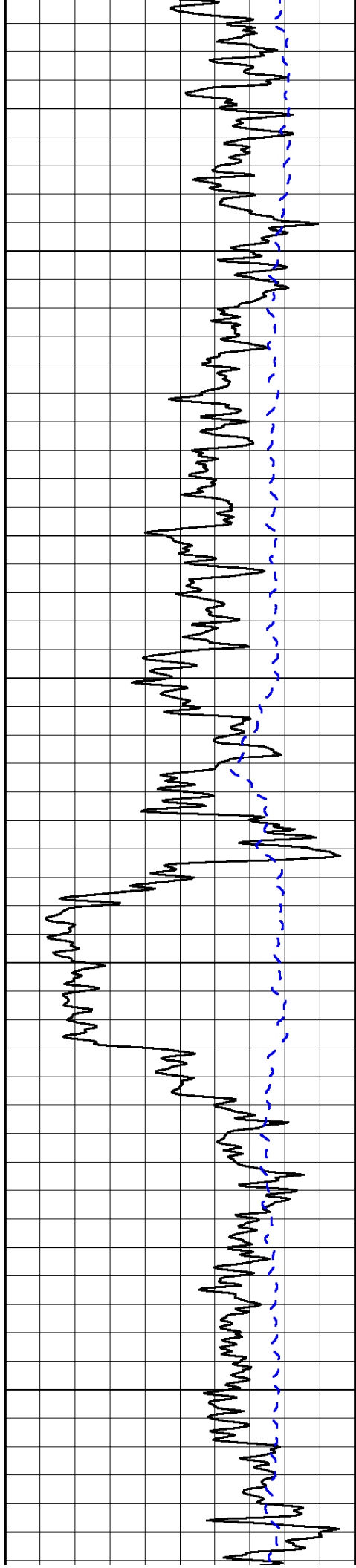
Oakley KS, South to Seneca RD,
 4 West to 400 RD, 1 1/3 South, West Into

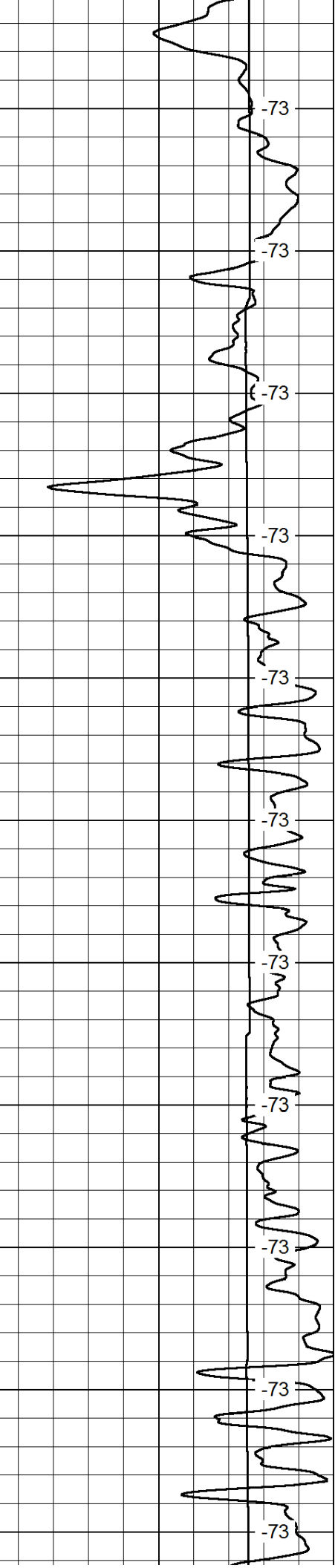
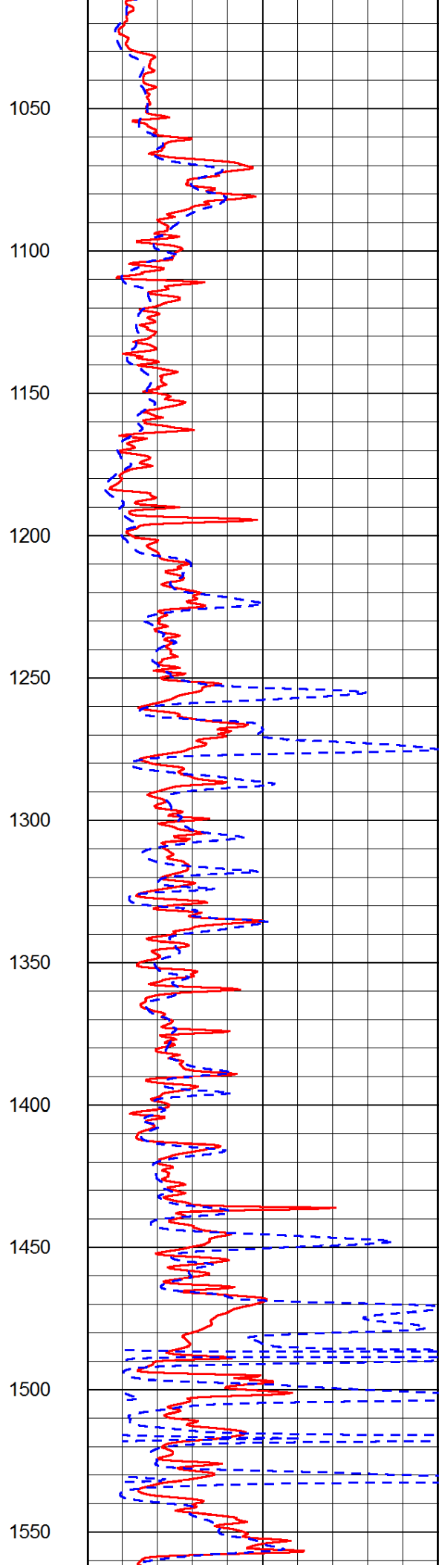
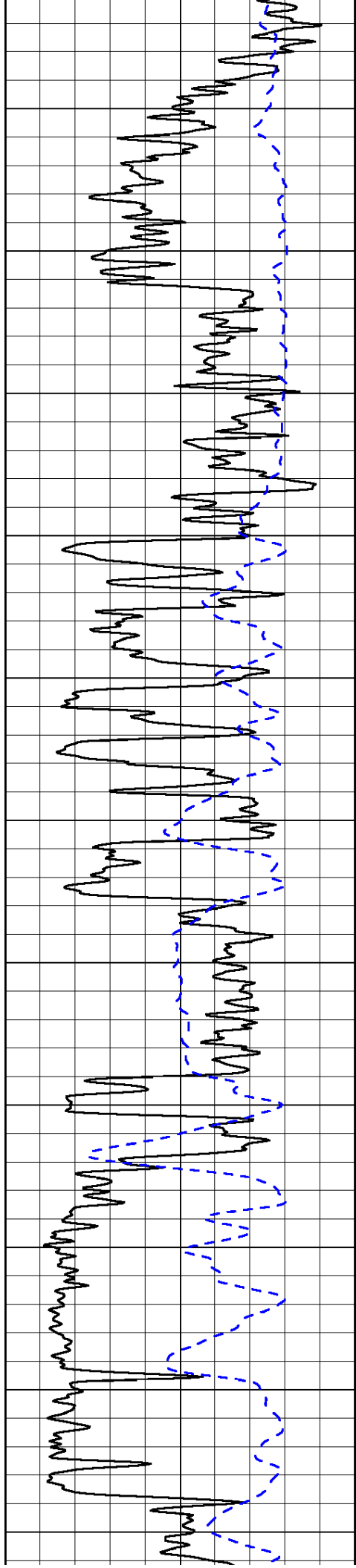
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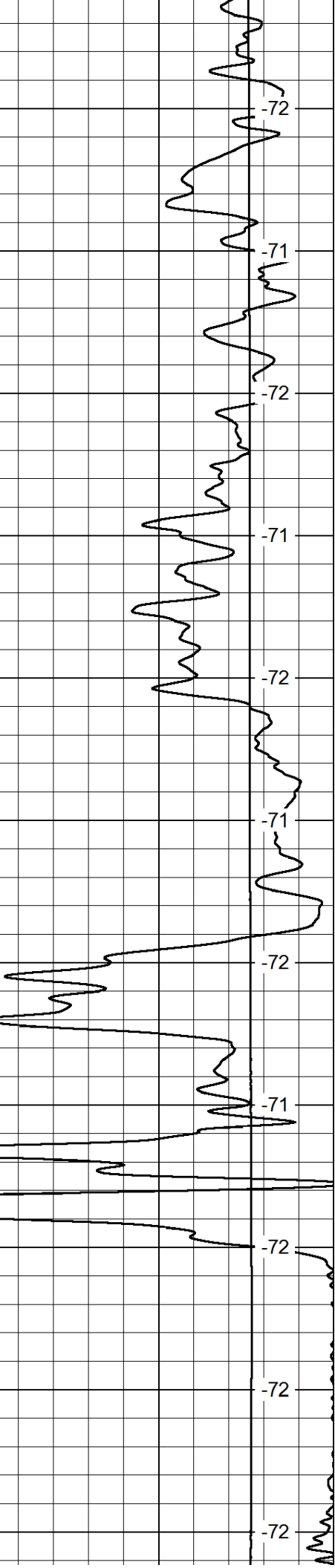
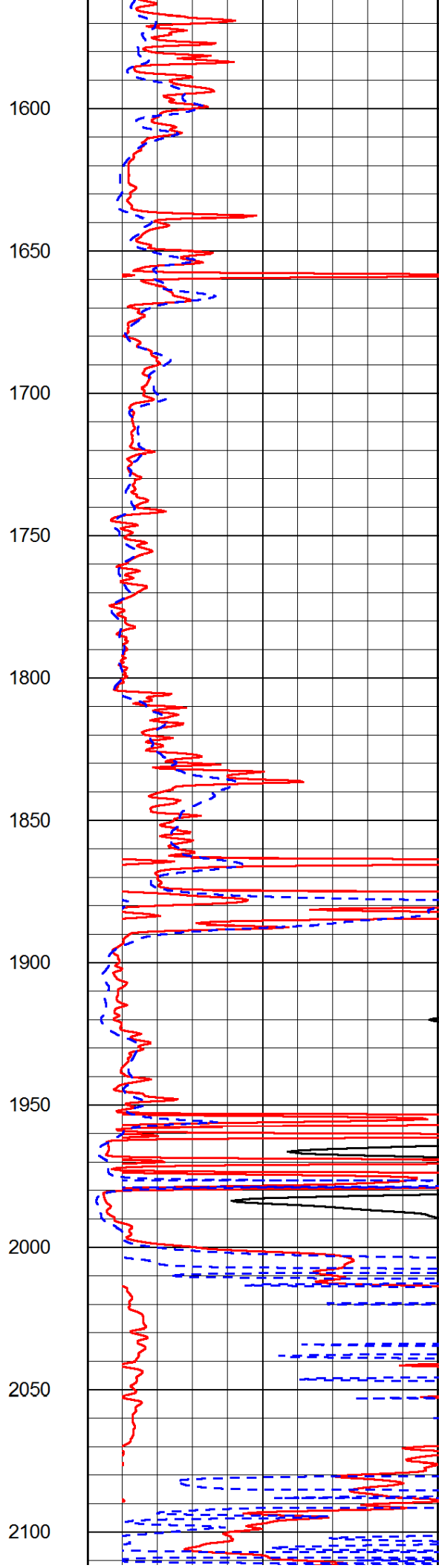
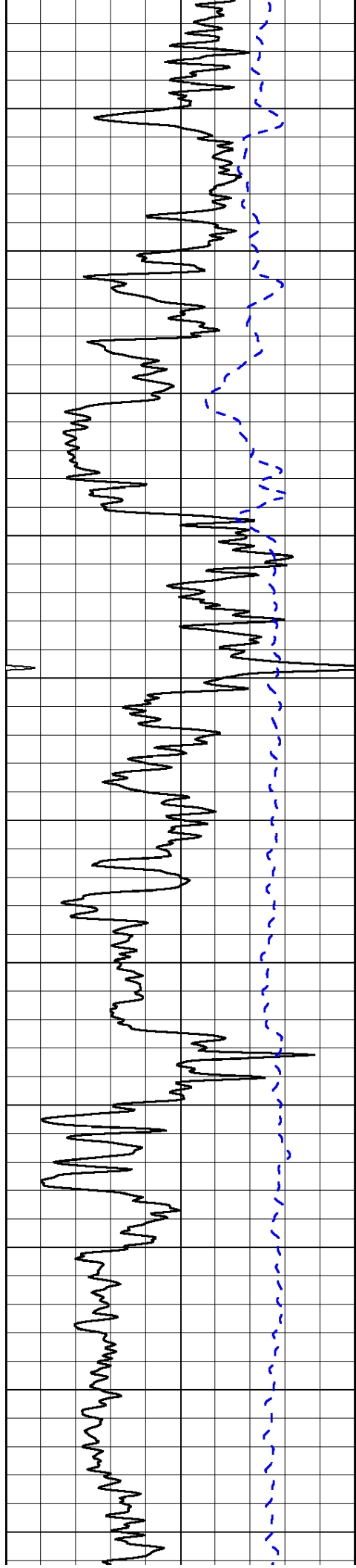
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0	Deep Resistivity	50
1000	Conductivity	0
15000	Line Tension	0
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50	Deep Resistivity	500

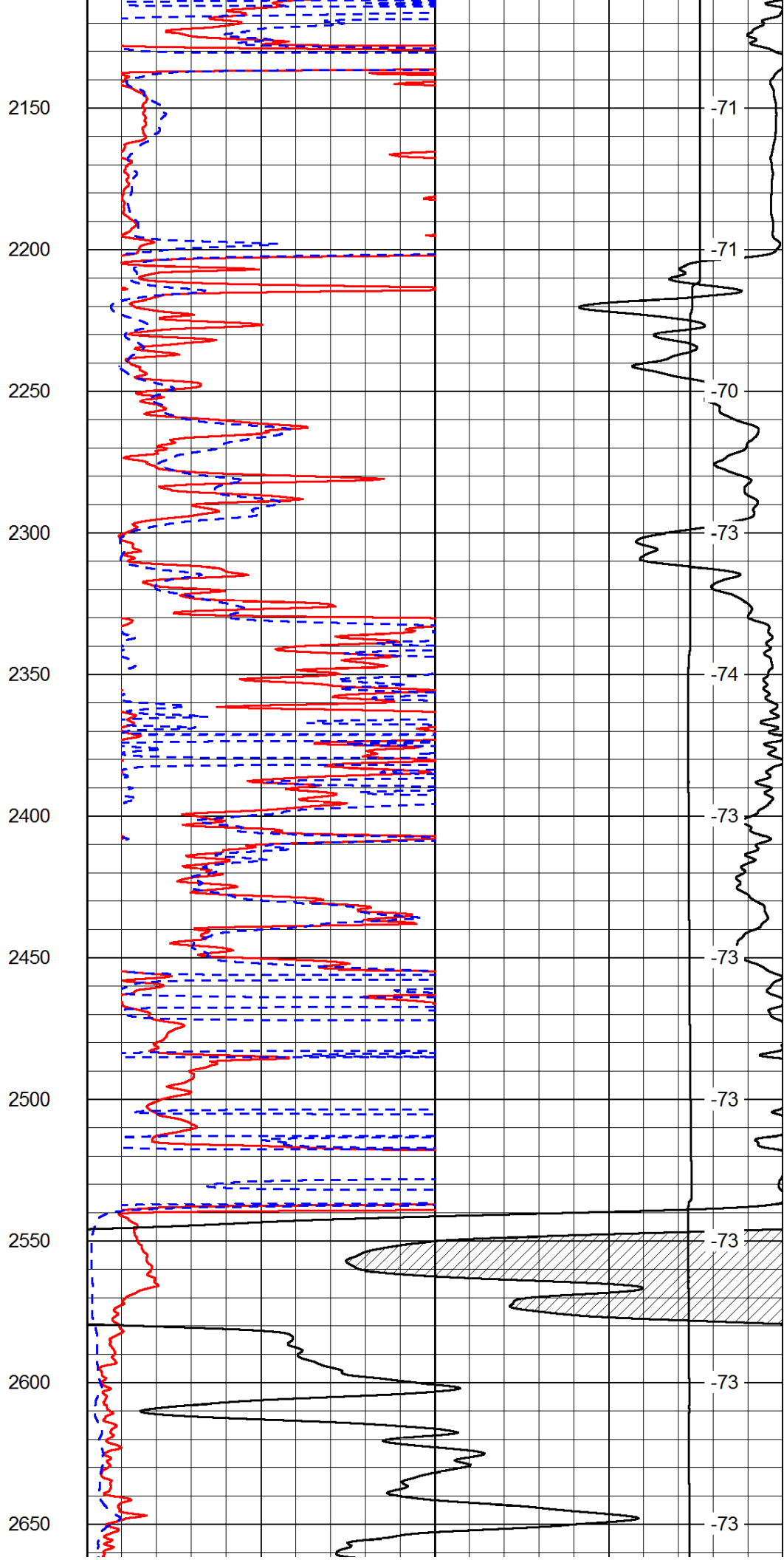
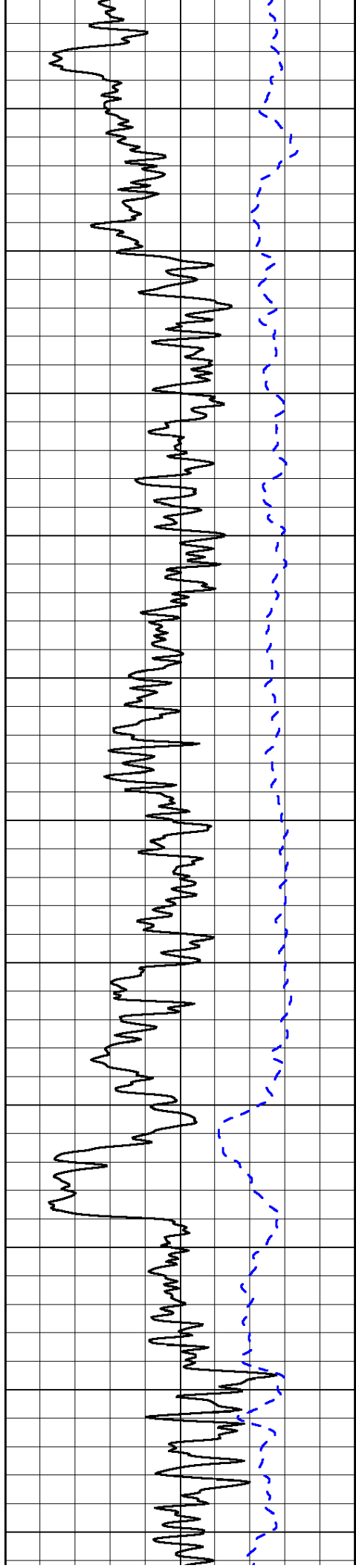
LSPD

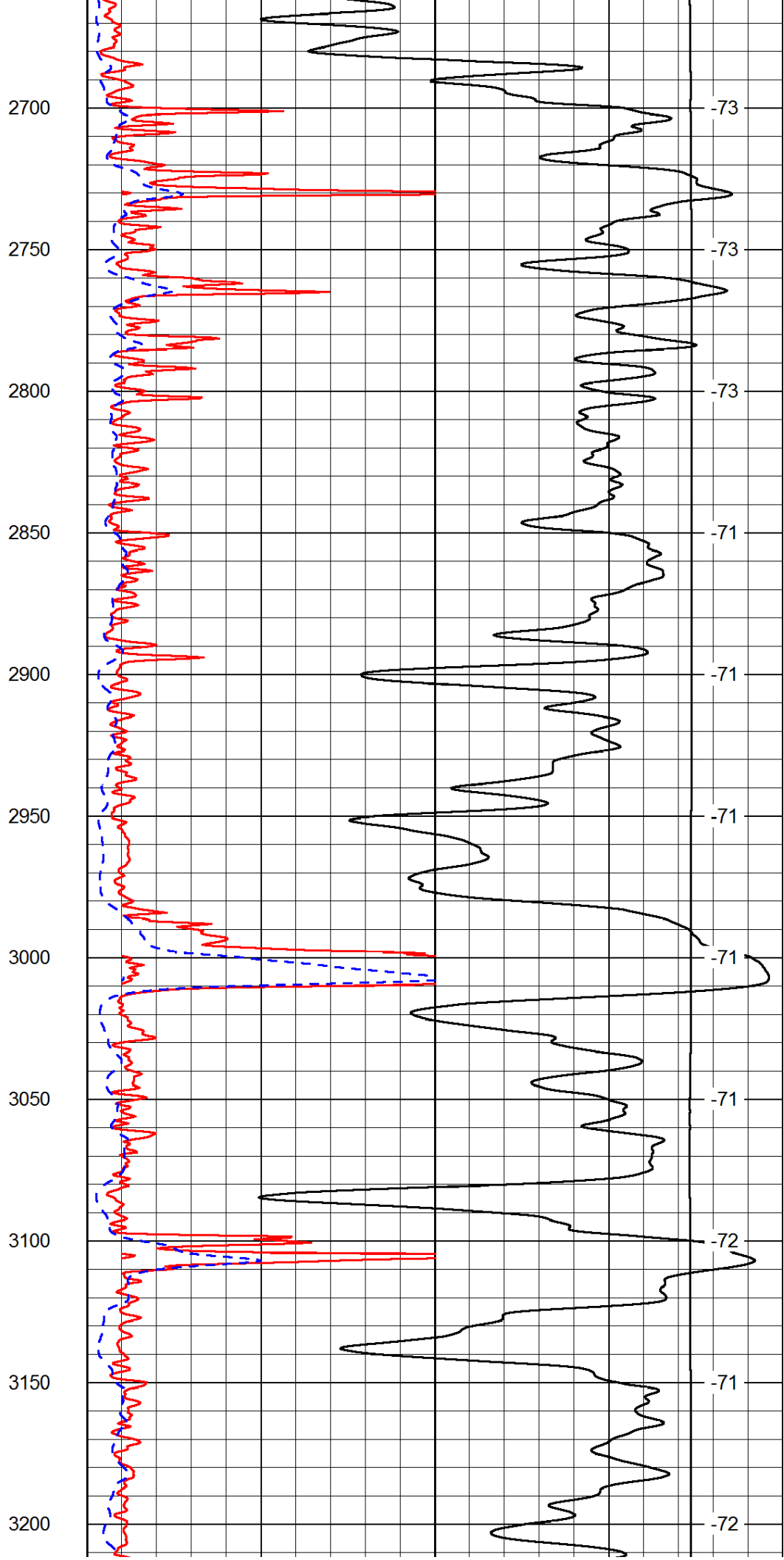
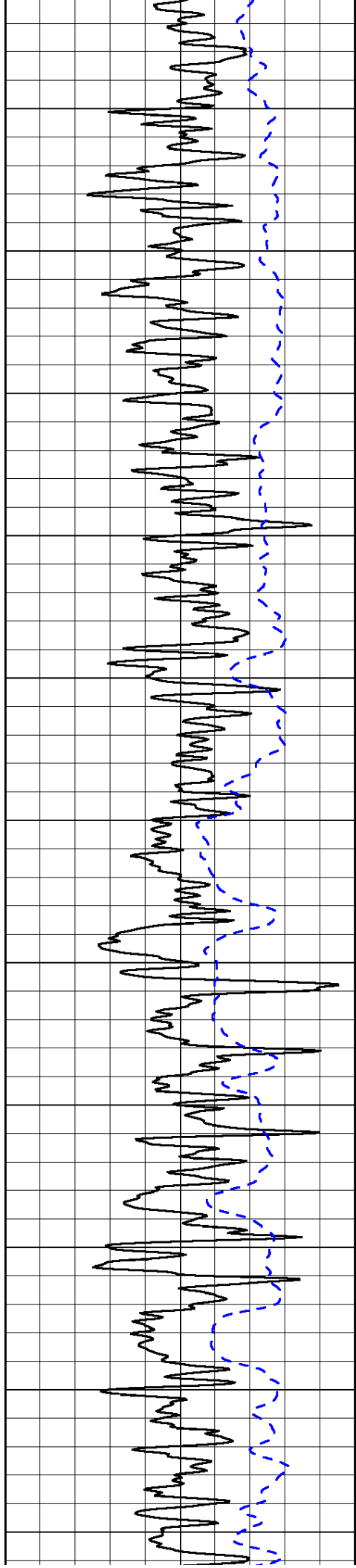


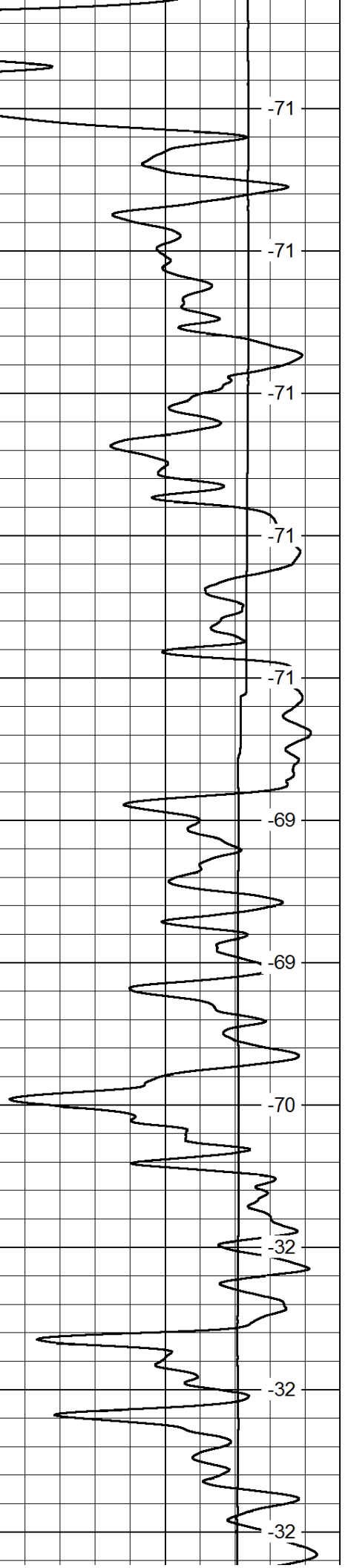
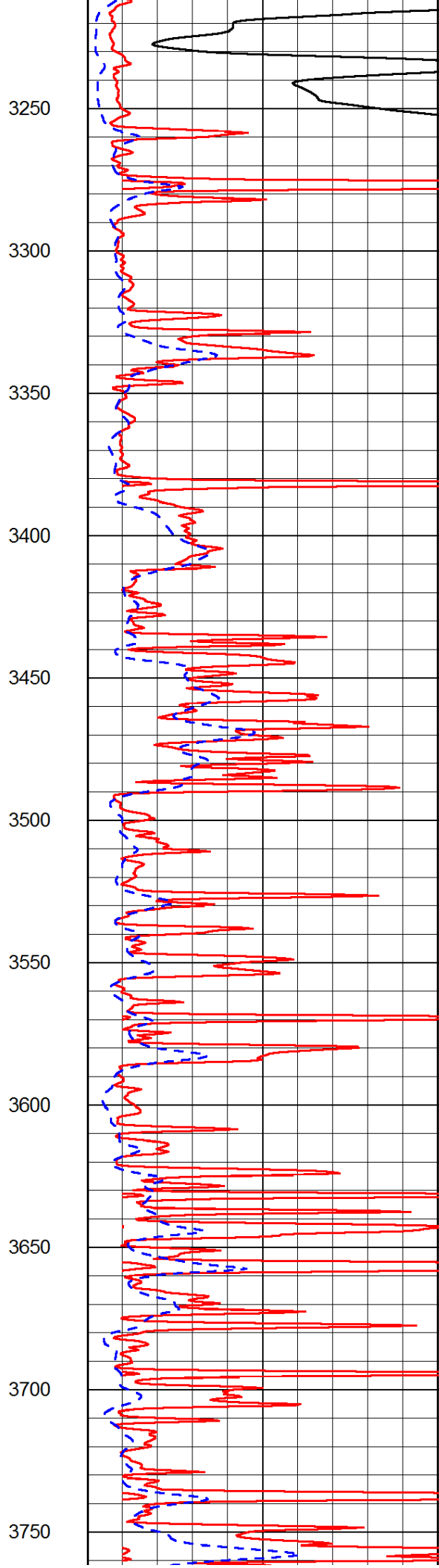
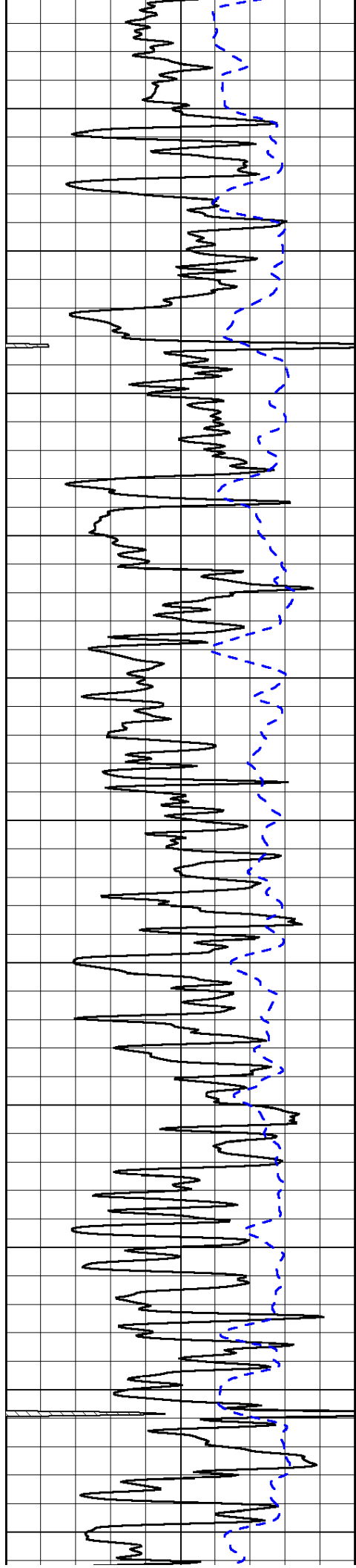


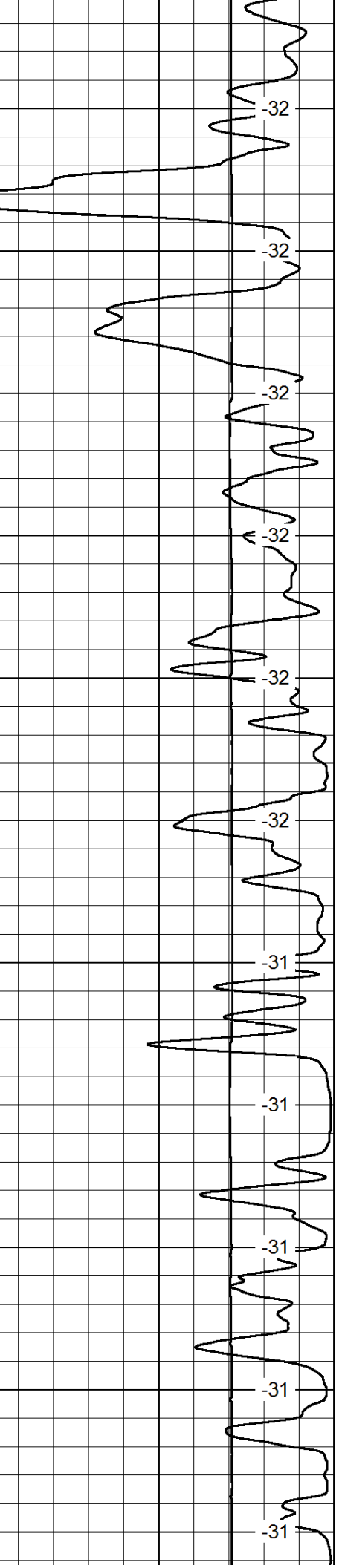
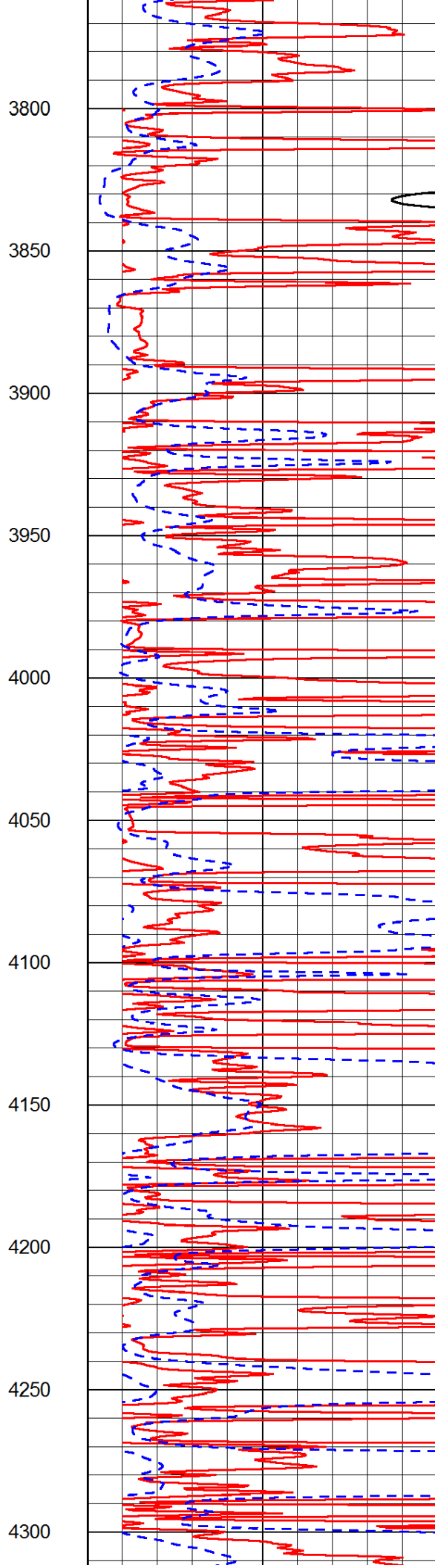
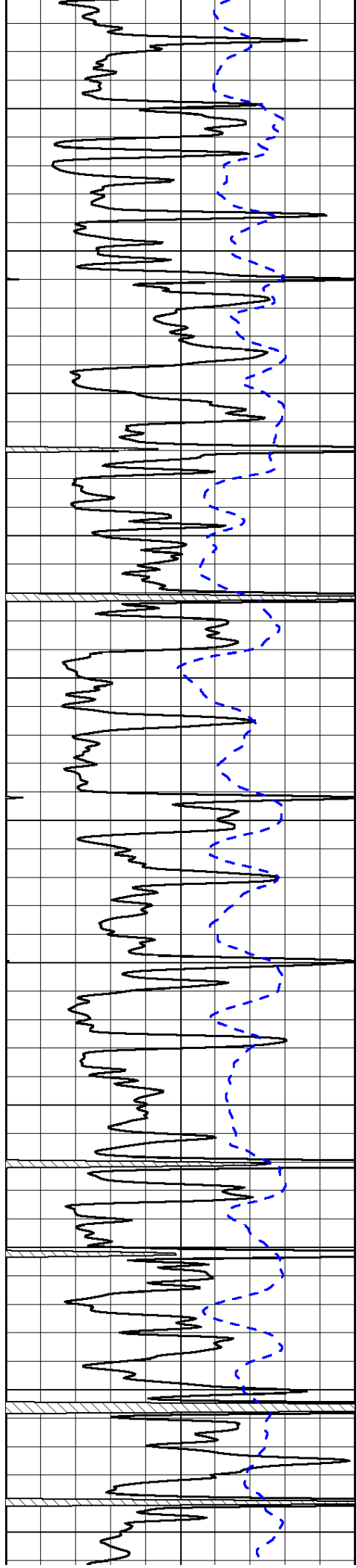


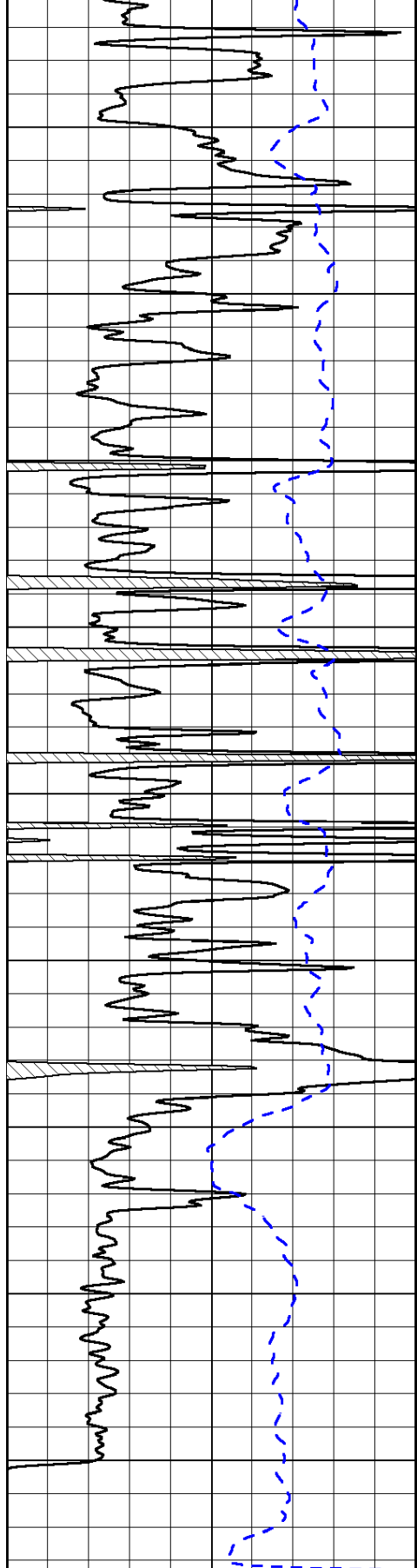




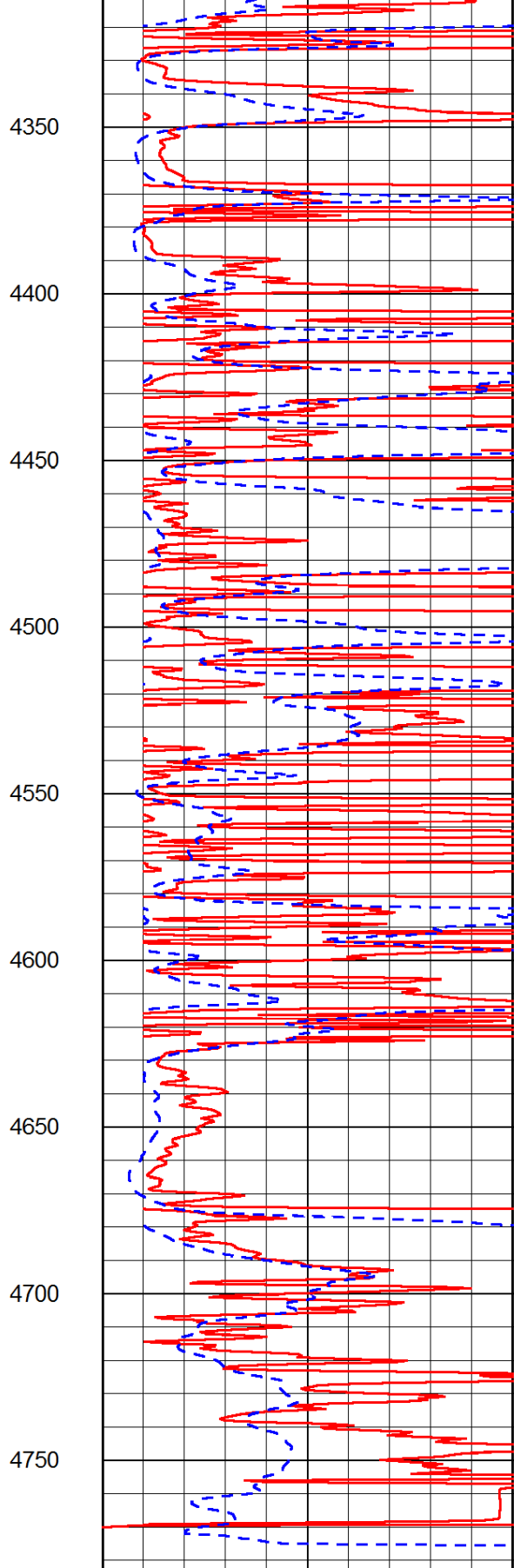








0 Gamma Ray 150
 -200 SP (mV) 0



0 Shallow Resistivity 50
 0 Deep Resistivity 50



LSPD

1000 Conductivity 0
 15000 Line Tension 0

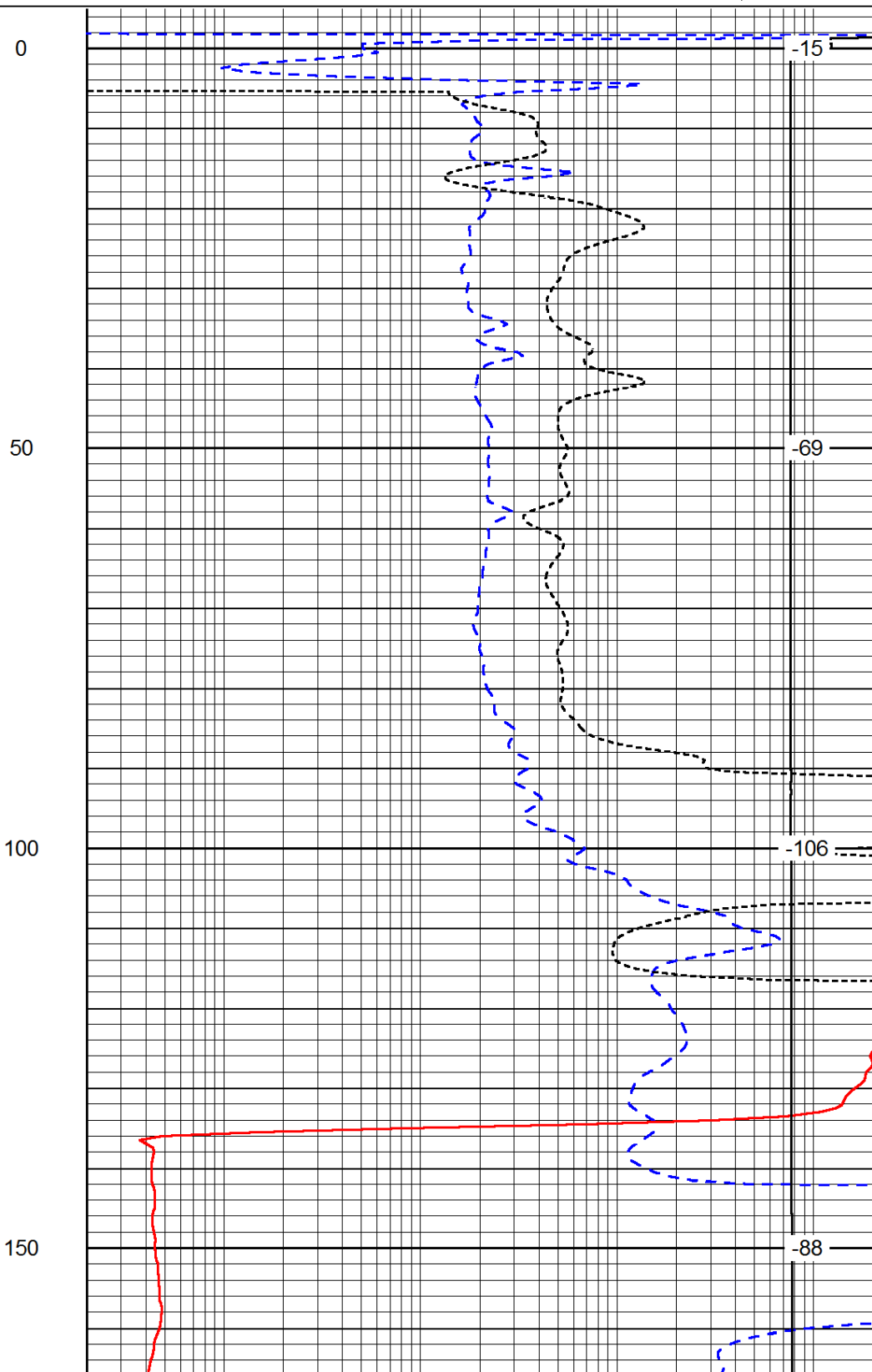
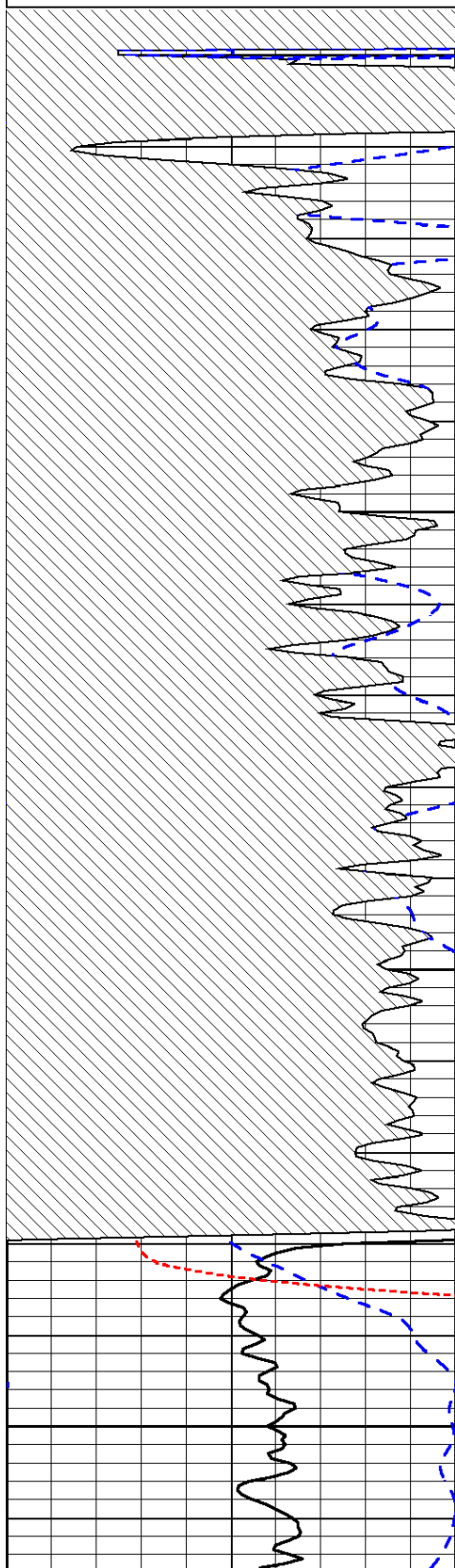
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 50 Deep Resistivity 50

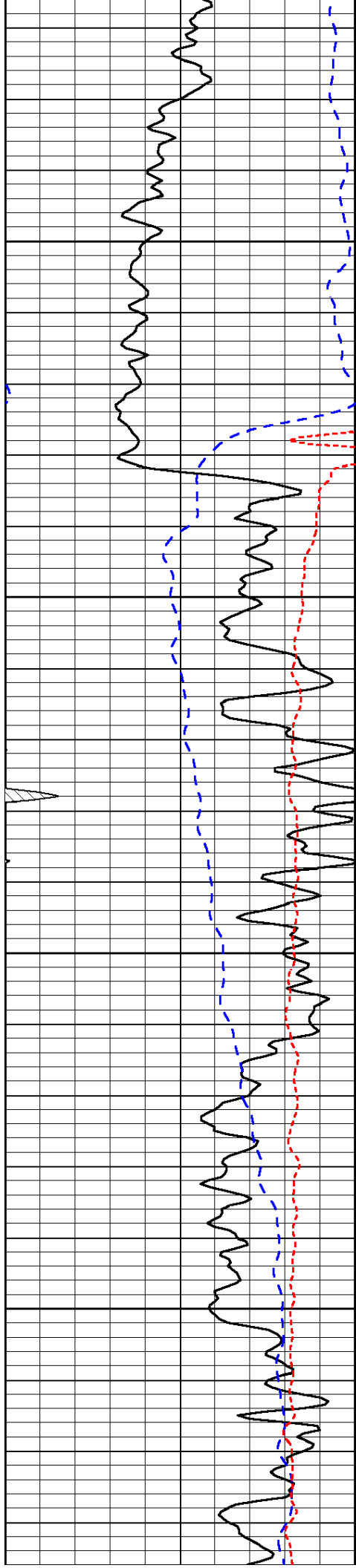
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 Presentation Format: dil
 Dataset Creation: Sun Apr 20 12:00:05 2014
 Charted by: Depth in Feet scaled 1:240

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

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

LSPD



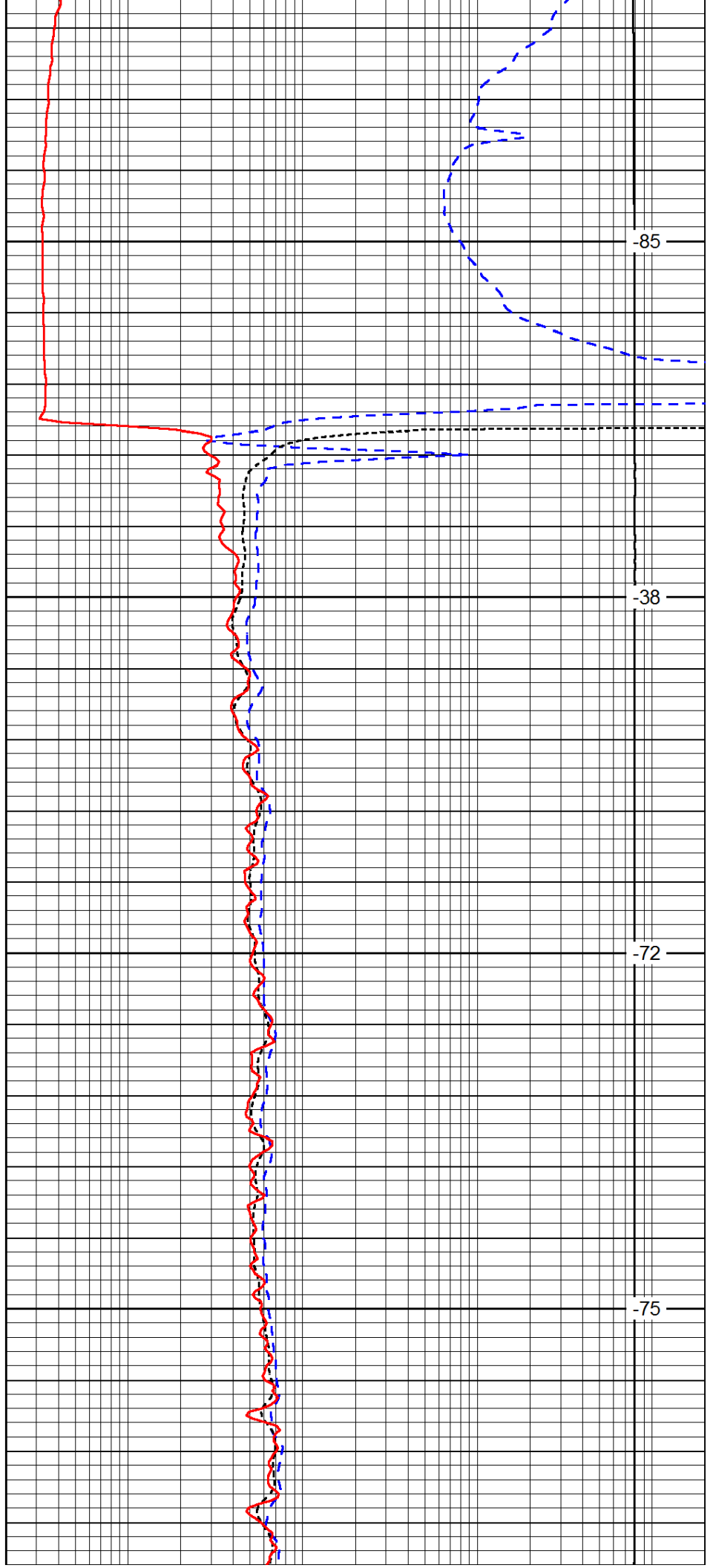


200

250

300

350

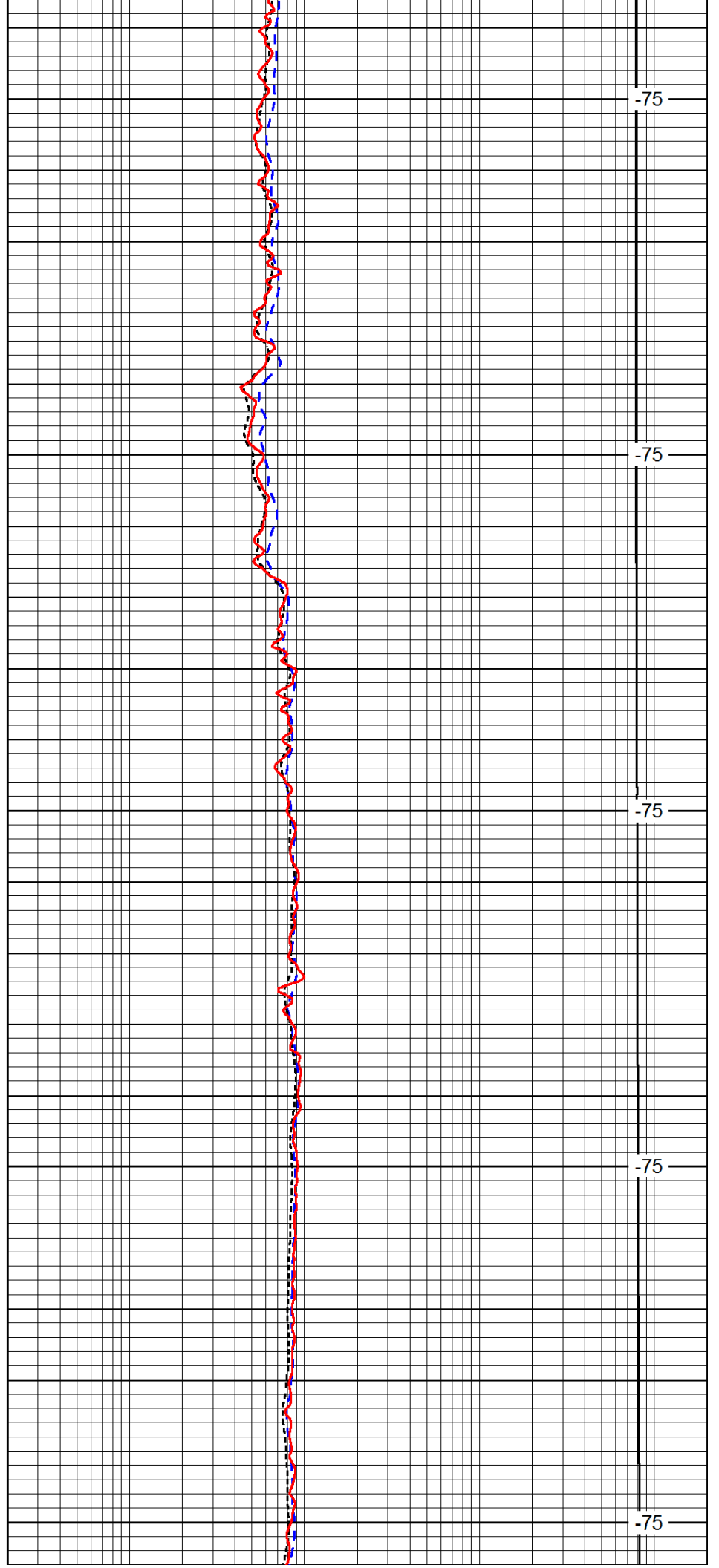
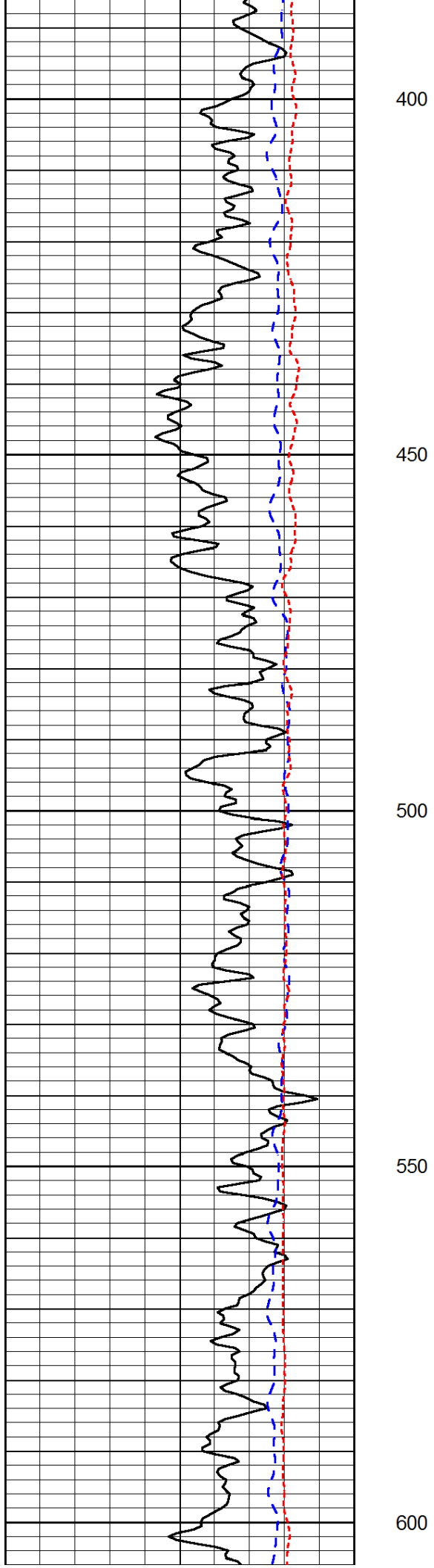


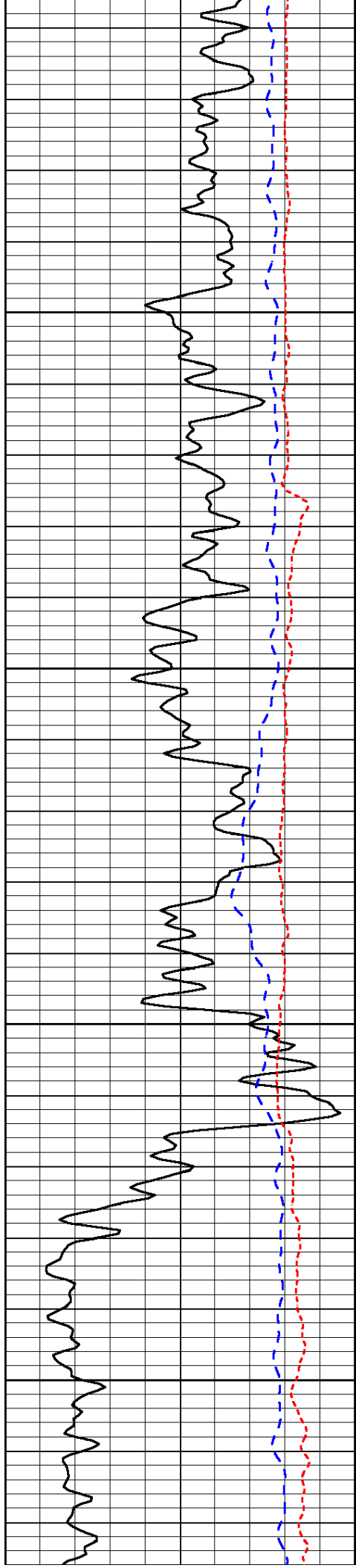
-85

-38

-72

-75



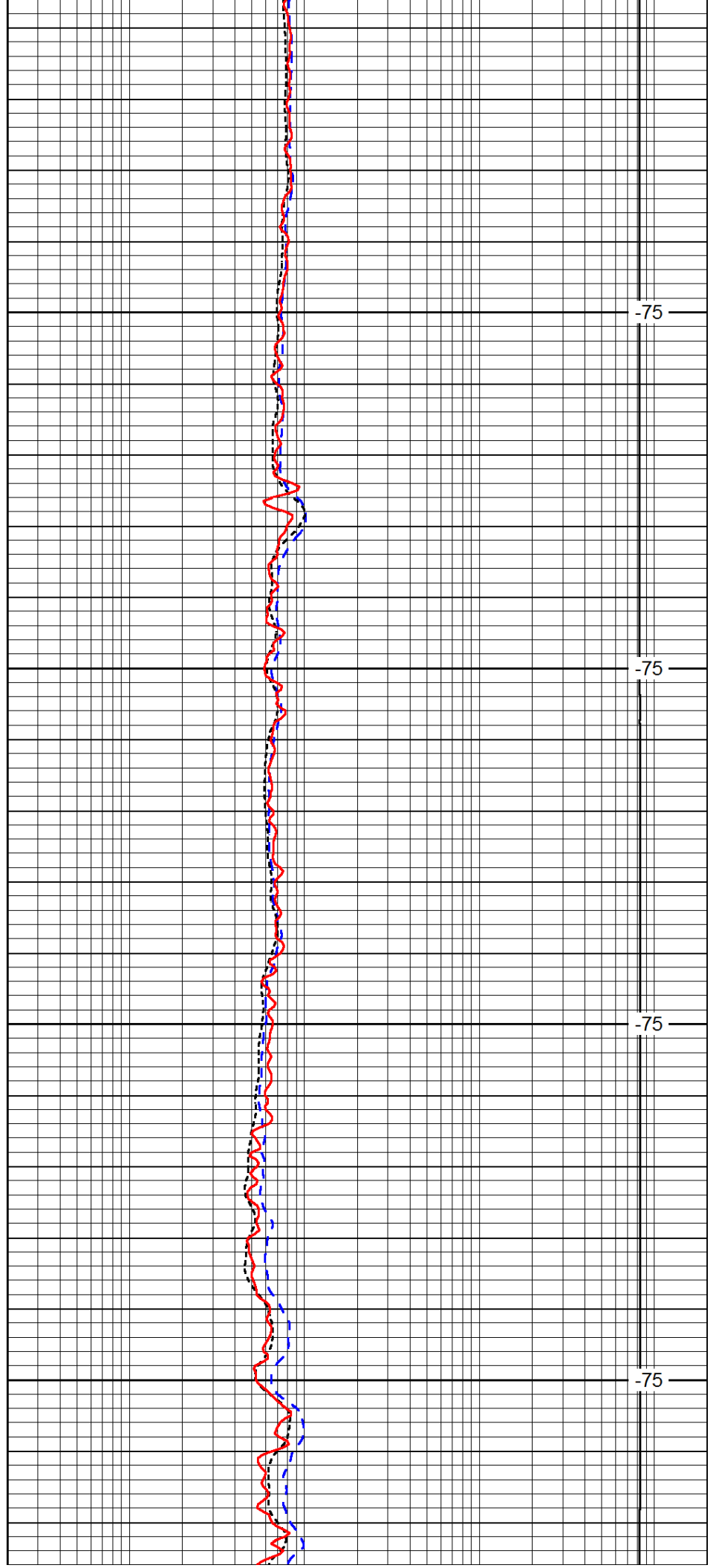


650

700

750

800

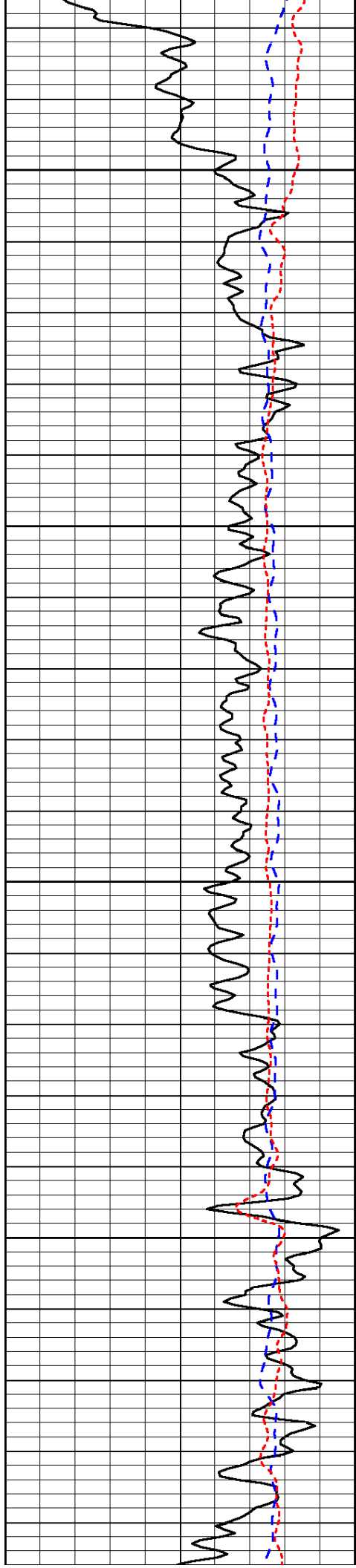


-75

-75

-75

-75

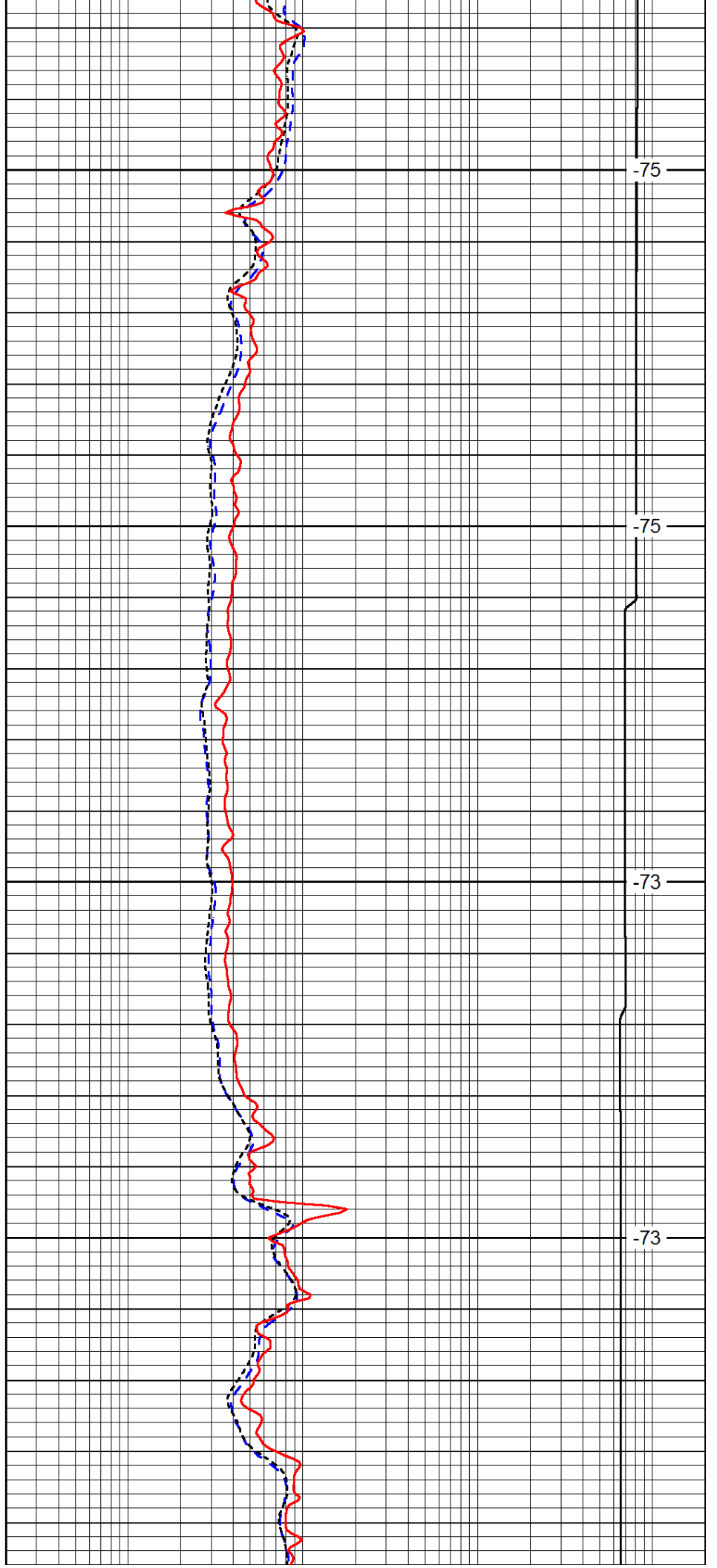


850

900

950

1000

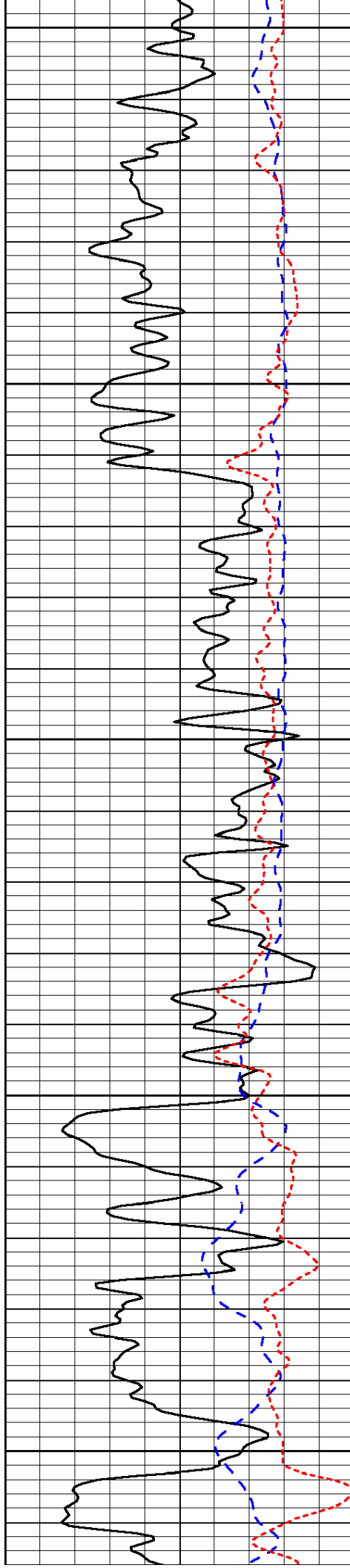


-75

-75

-73

-73



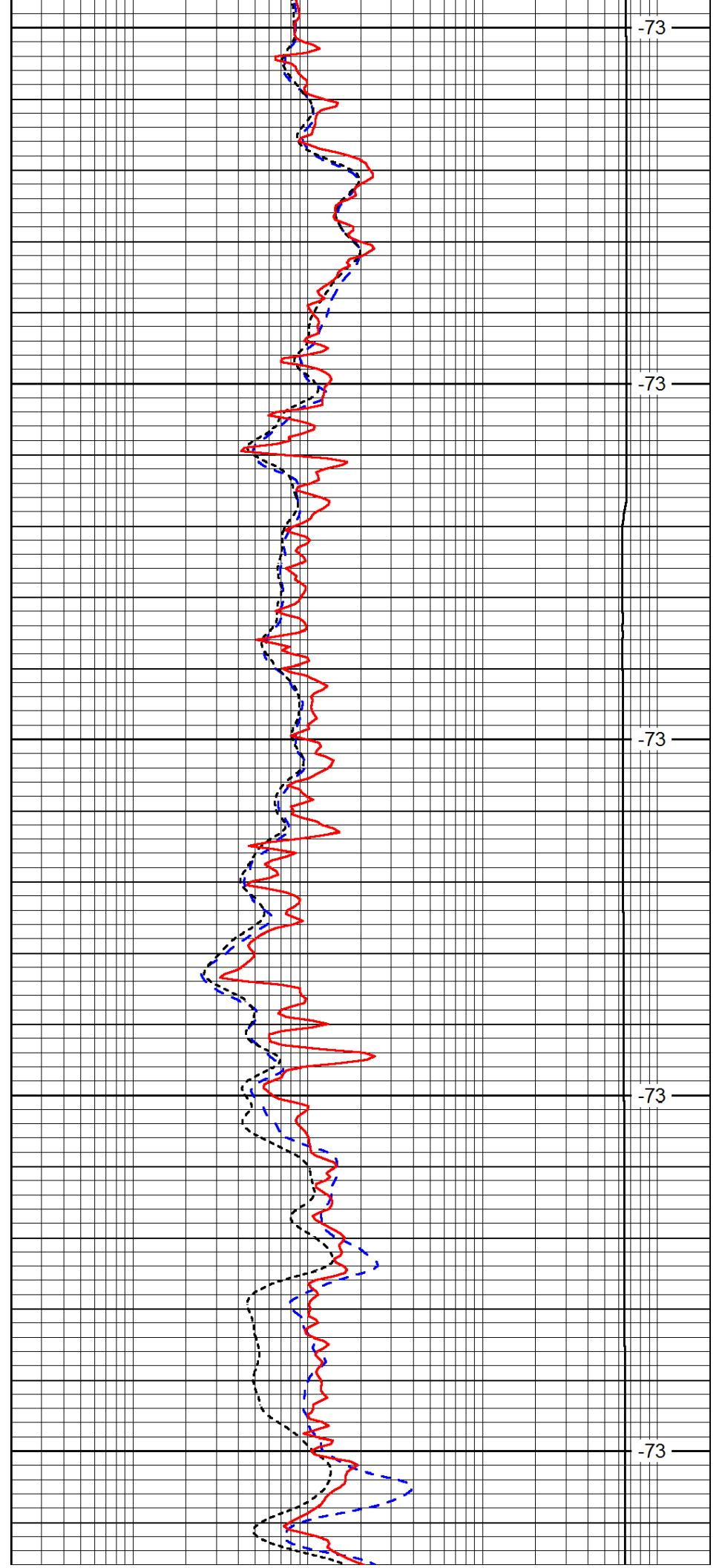
1050

1100

1150

1200

1250



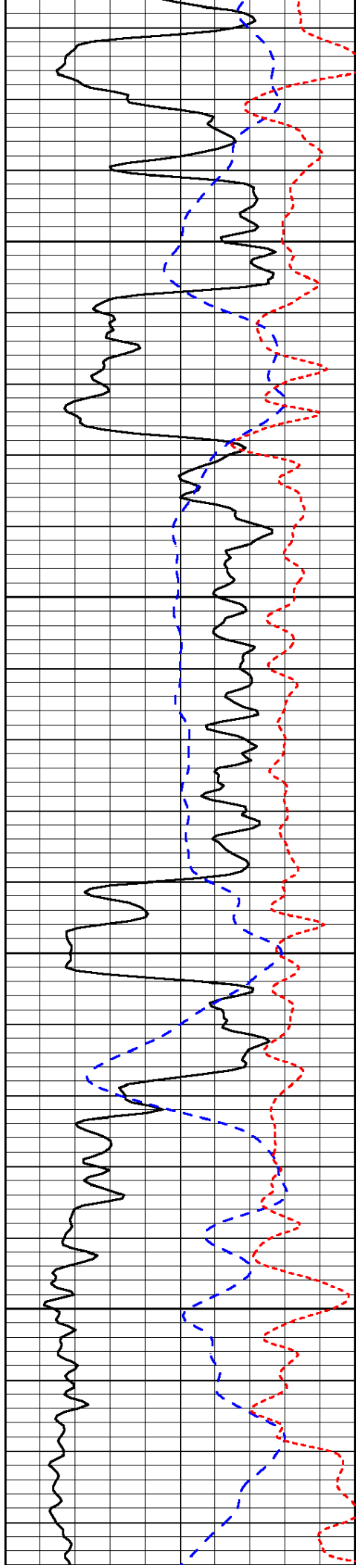
-73

-73

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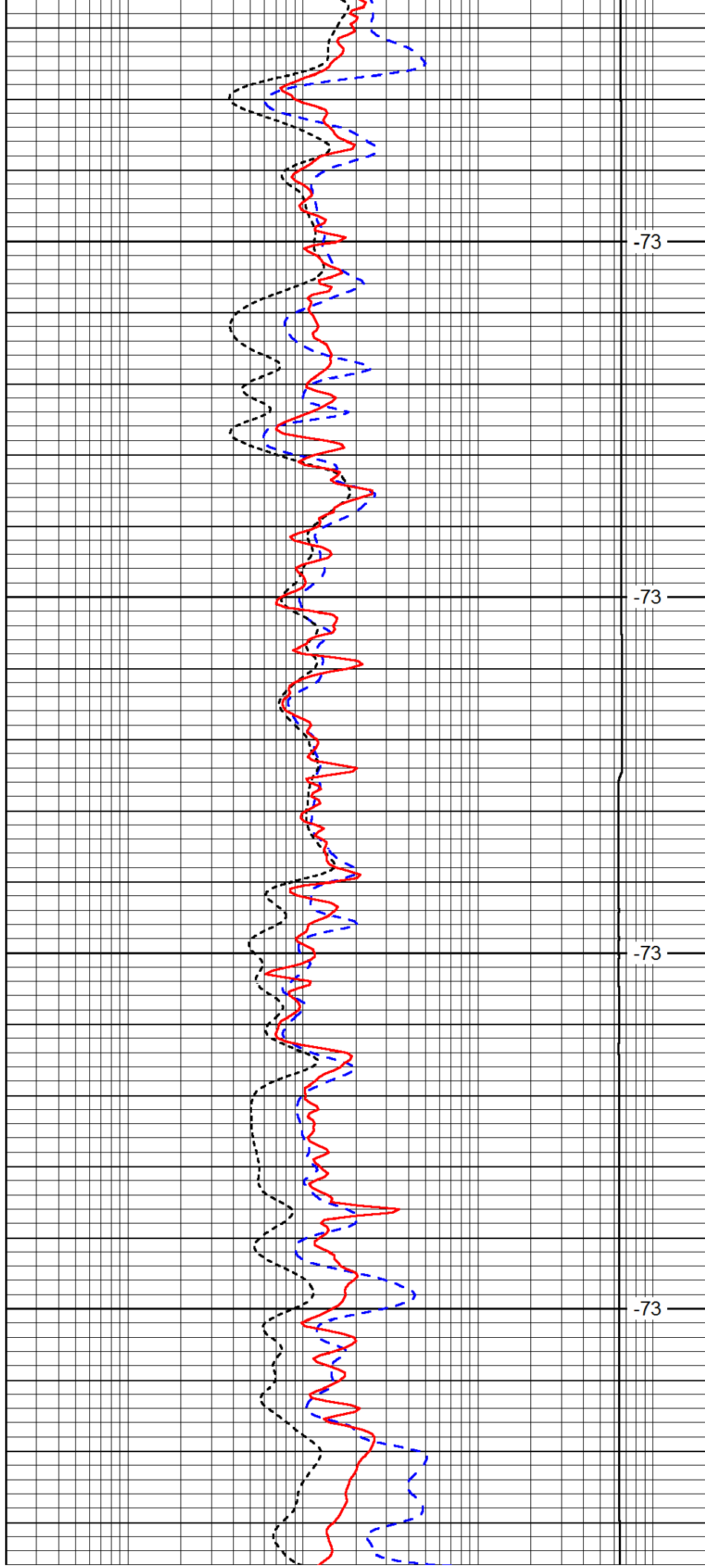


1300

1350

1400

1450

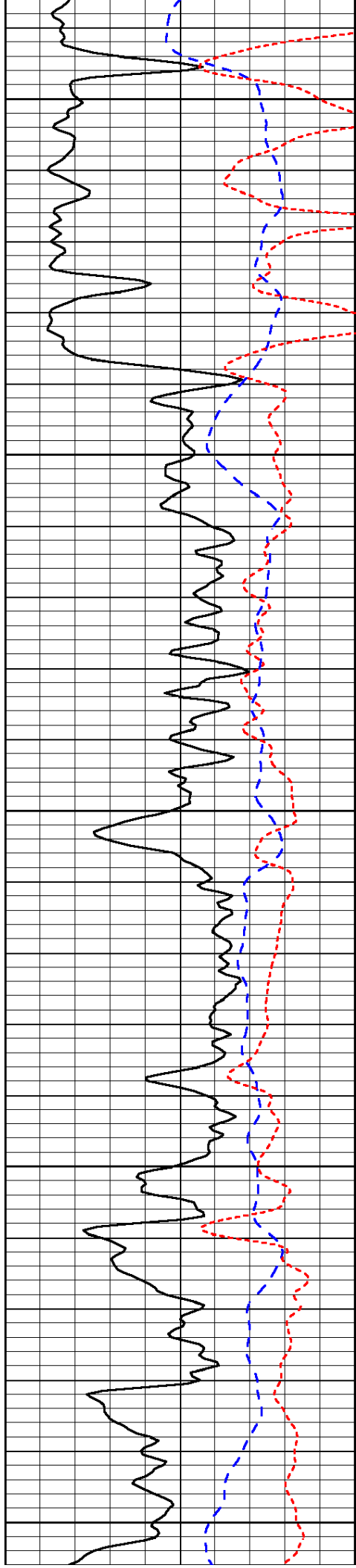


-73

-73

-73

-73



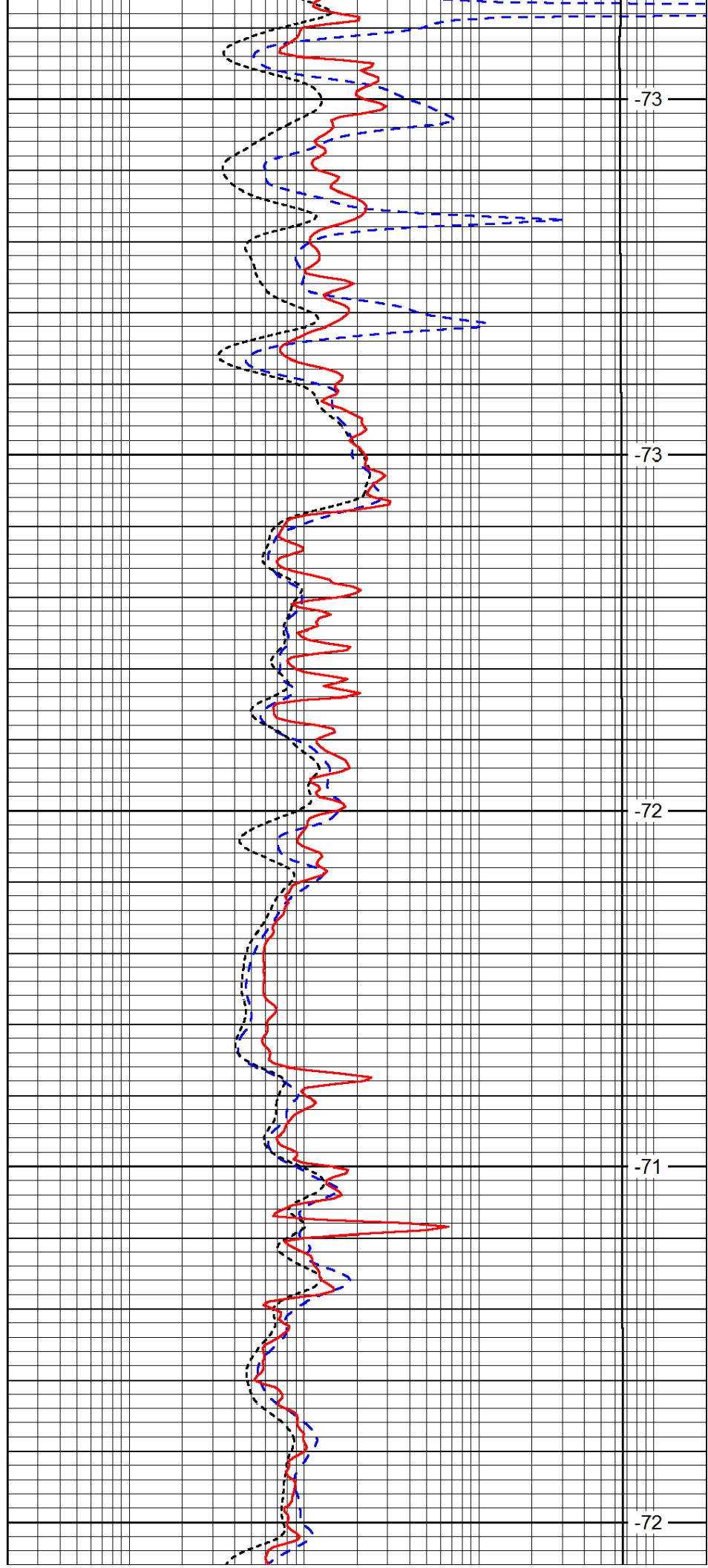
1500

1550

1600

1650

1700



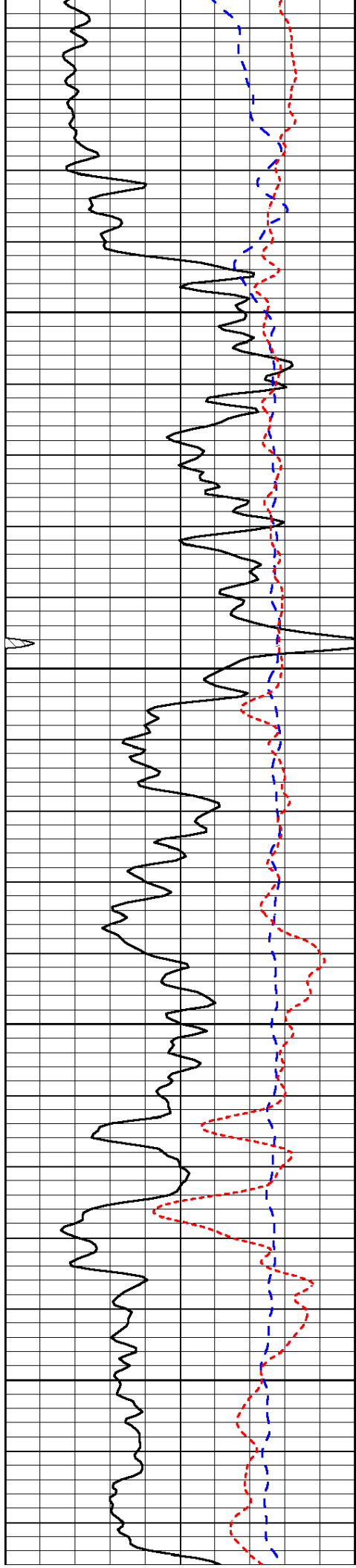
-73

-73

-72

-71

-72

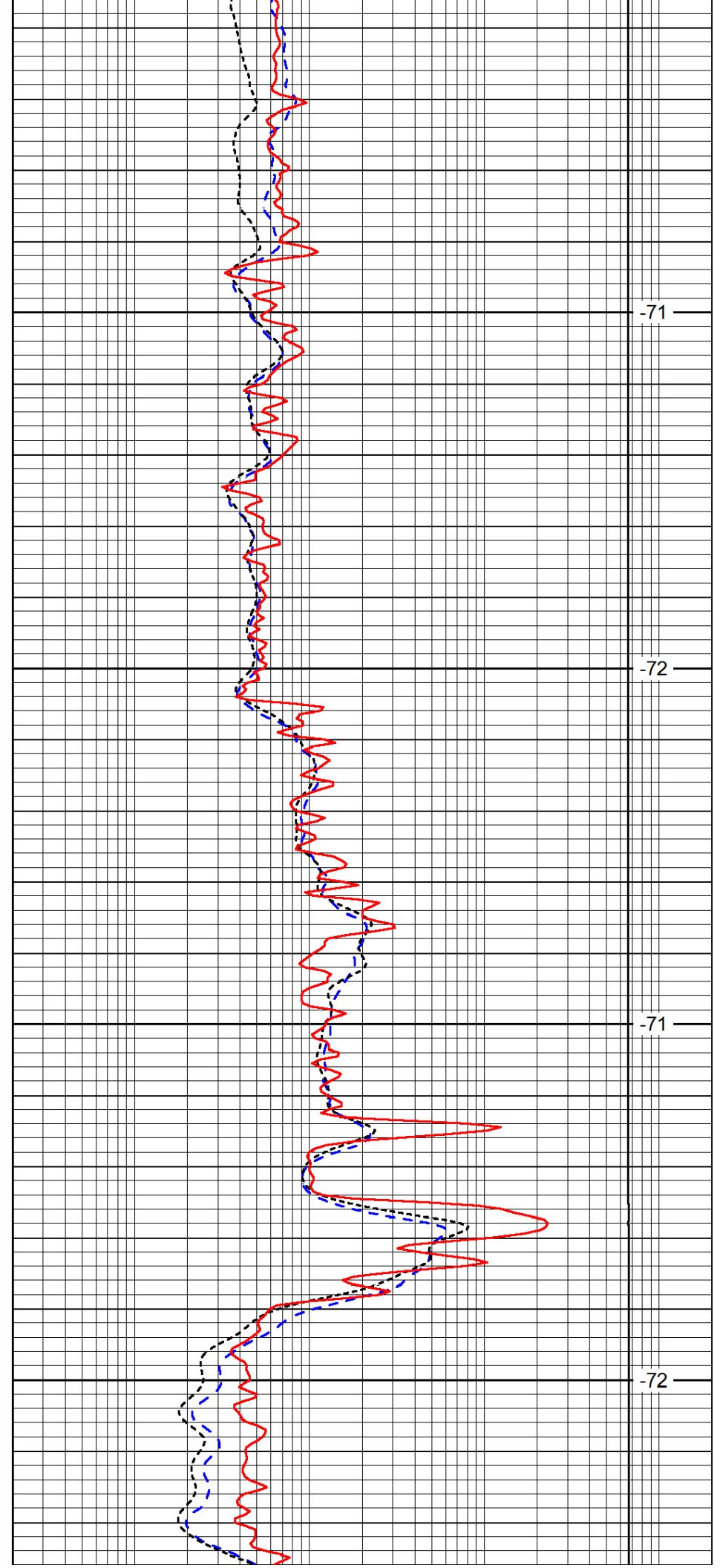


1750

1800

1850

1900

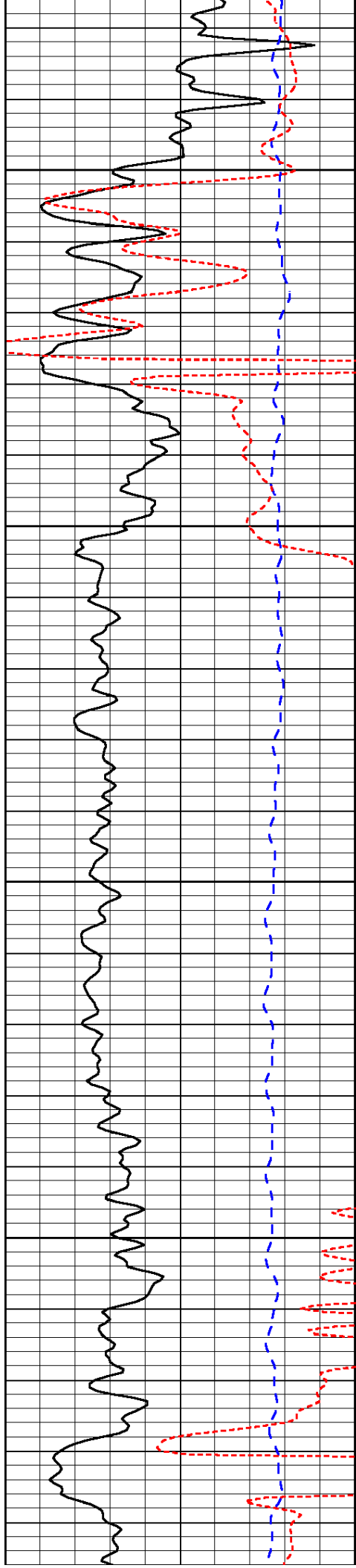


-71

-72

-71

-72

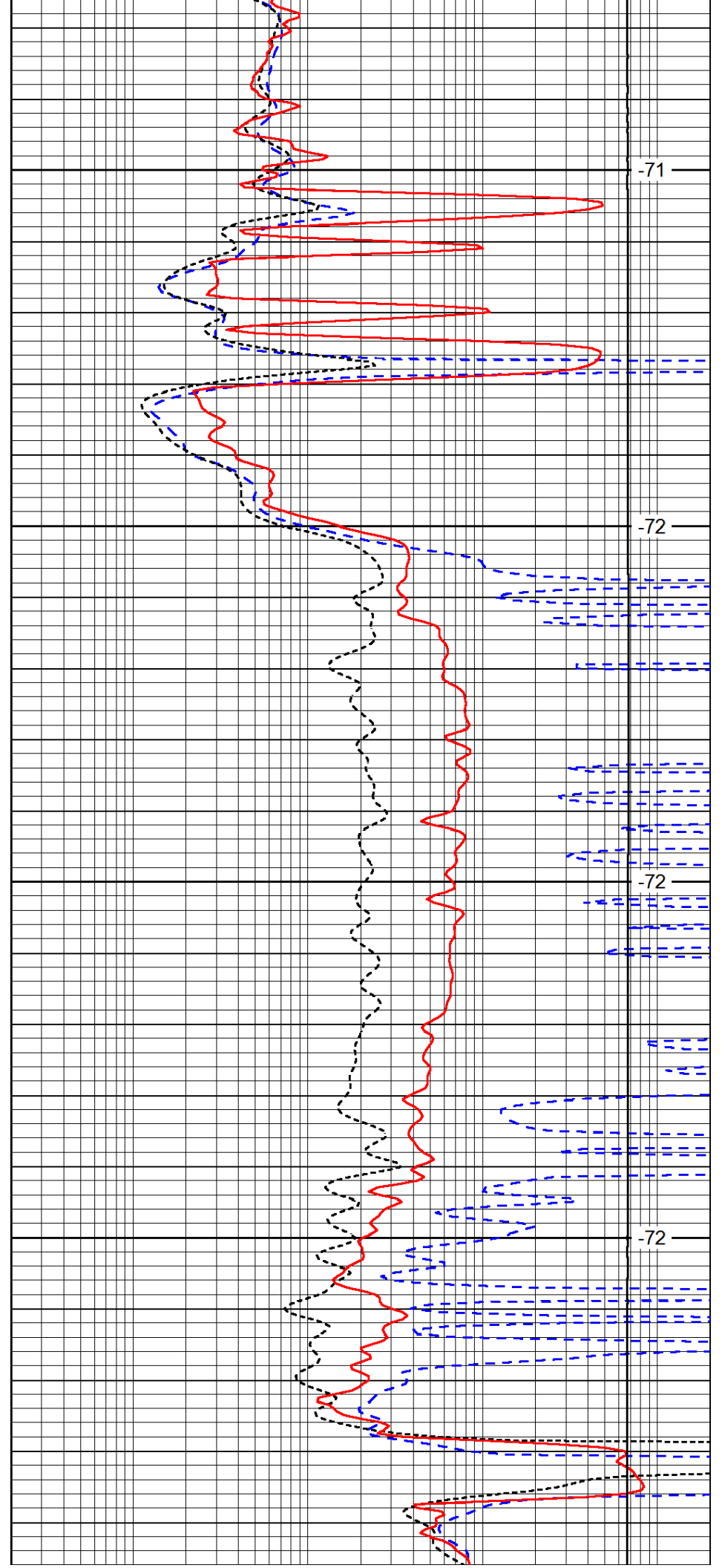


1950

2000

2050

2100

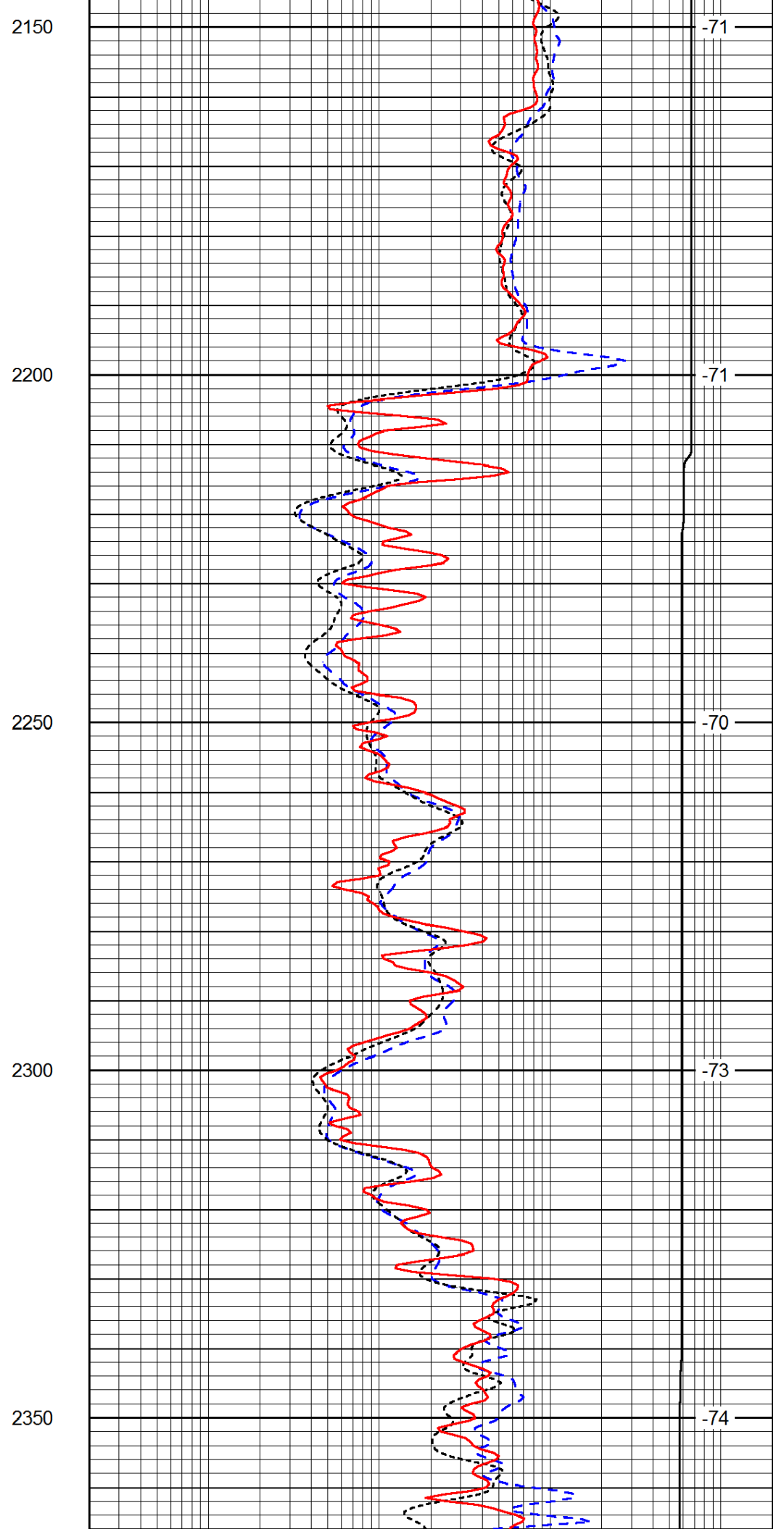
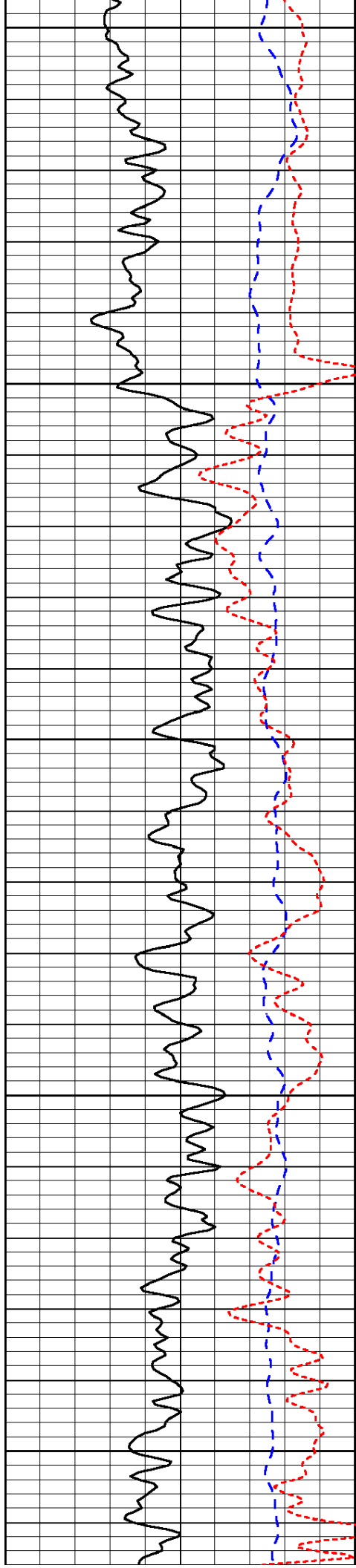


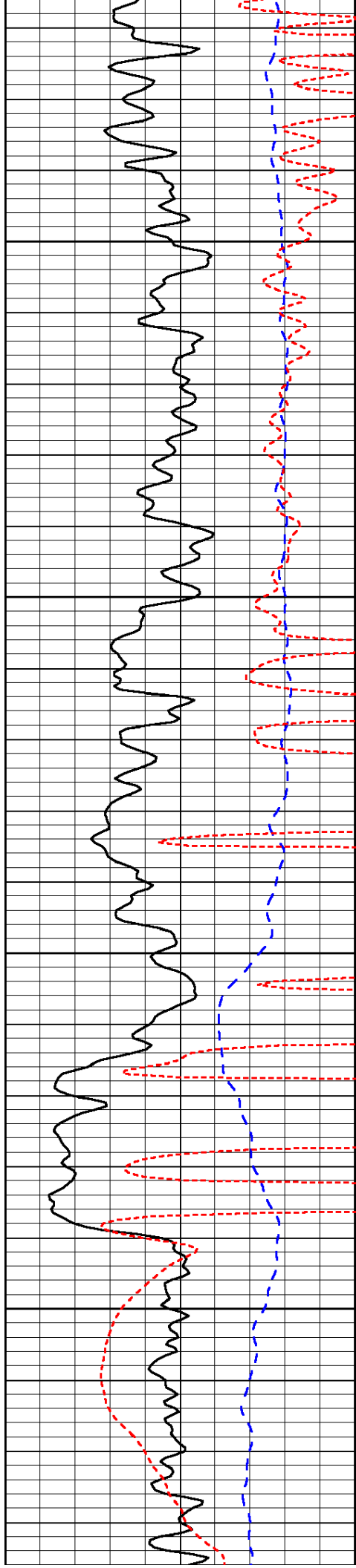
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-72

-72



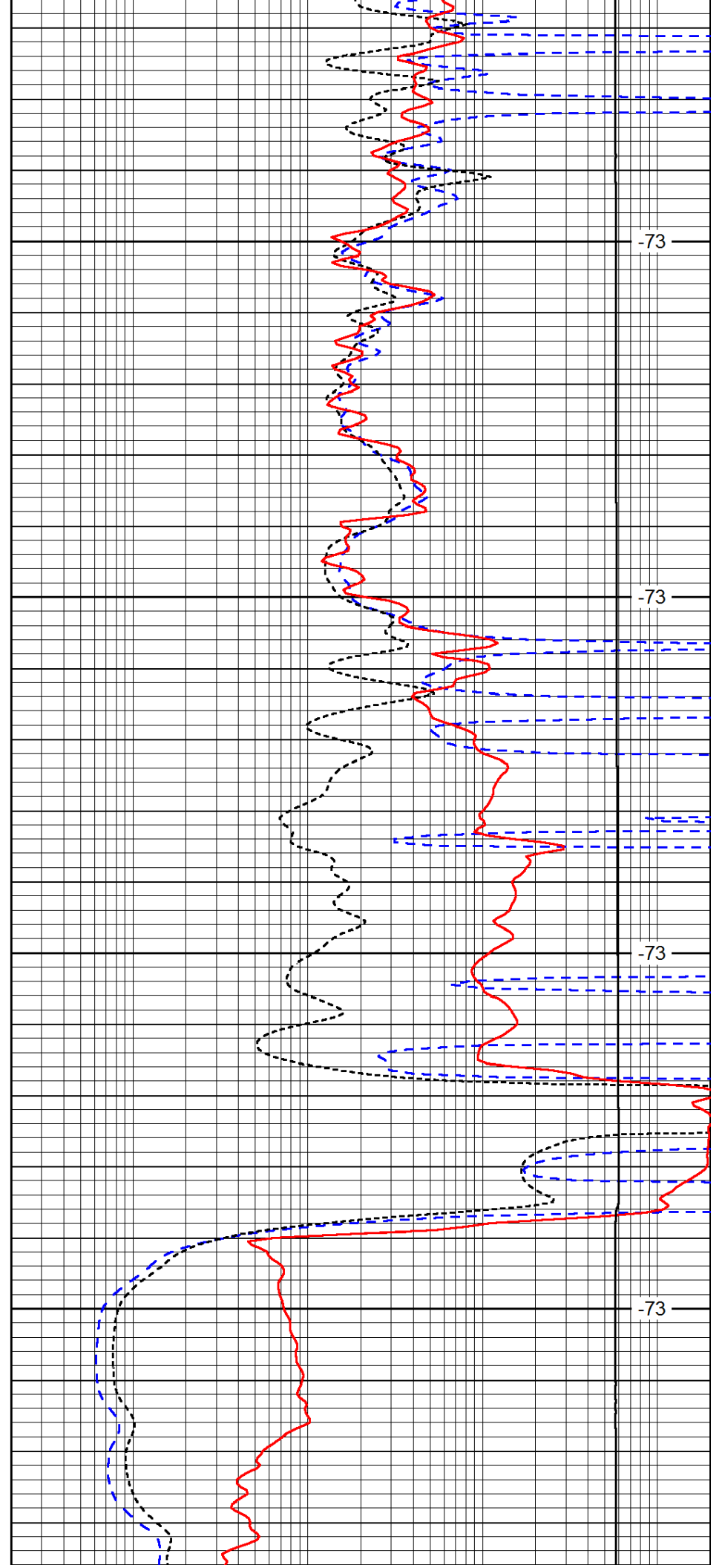


2400

2450

2500

2550

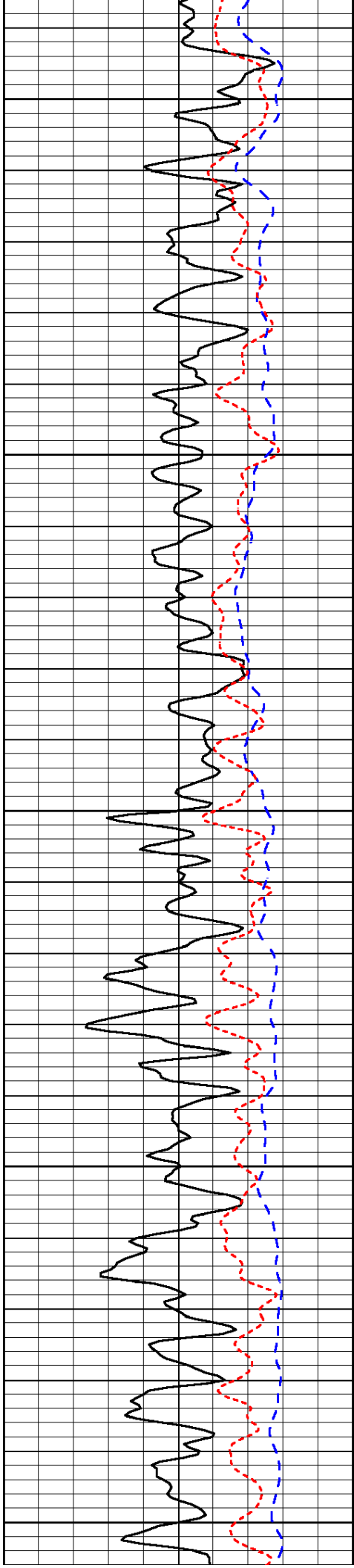


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-73

-73

-73



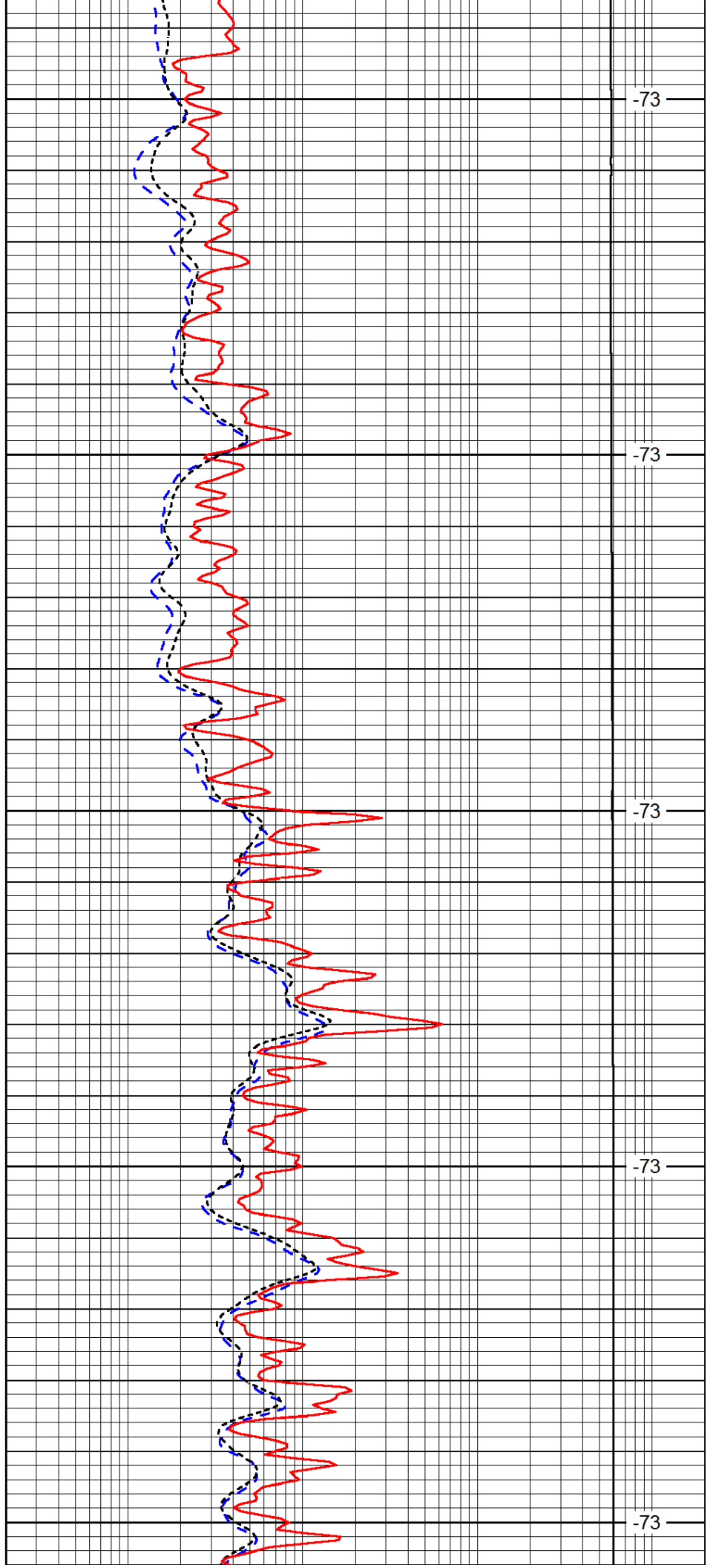
2600

2650

2700

2750

2800



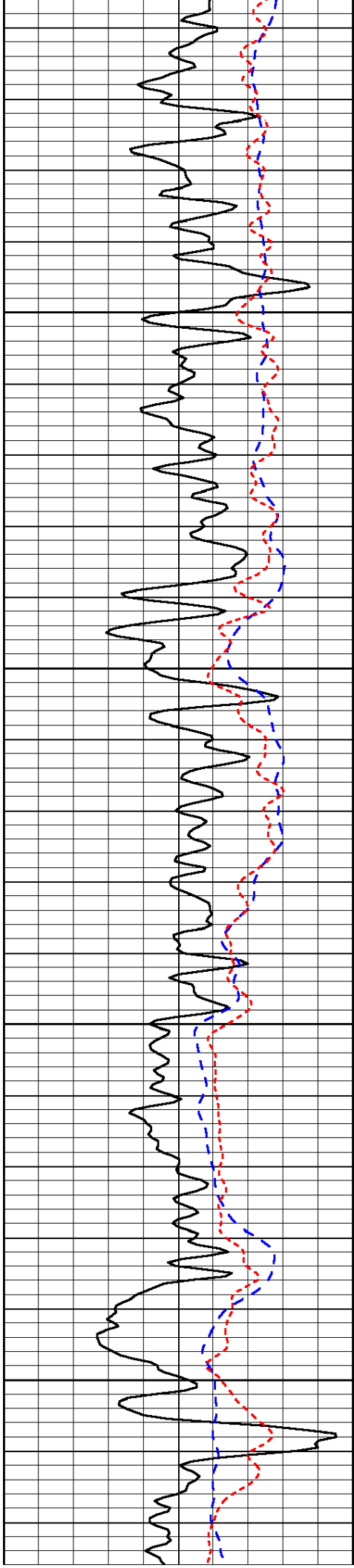
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-73

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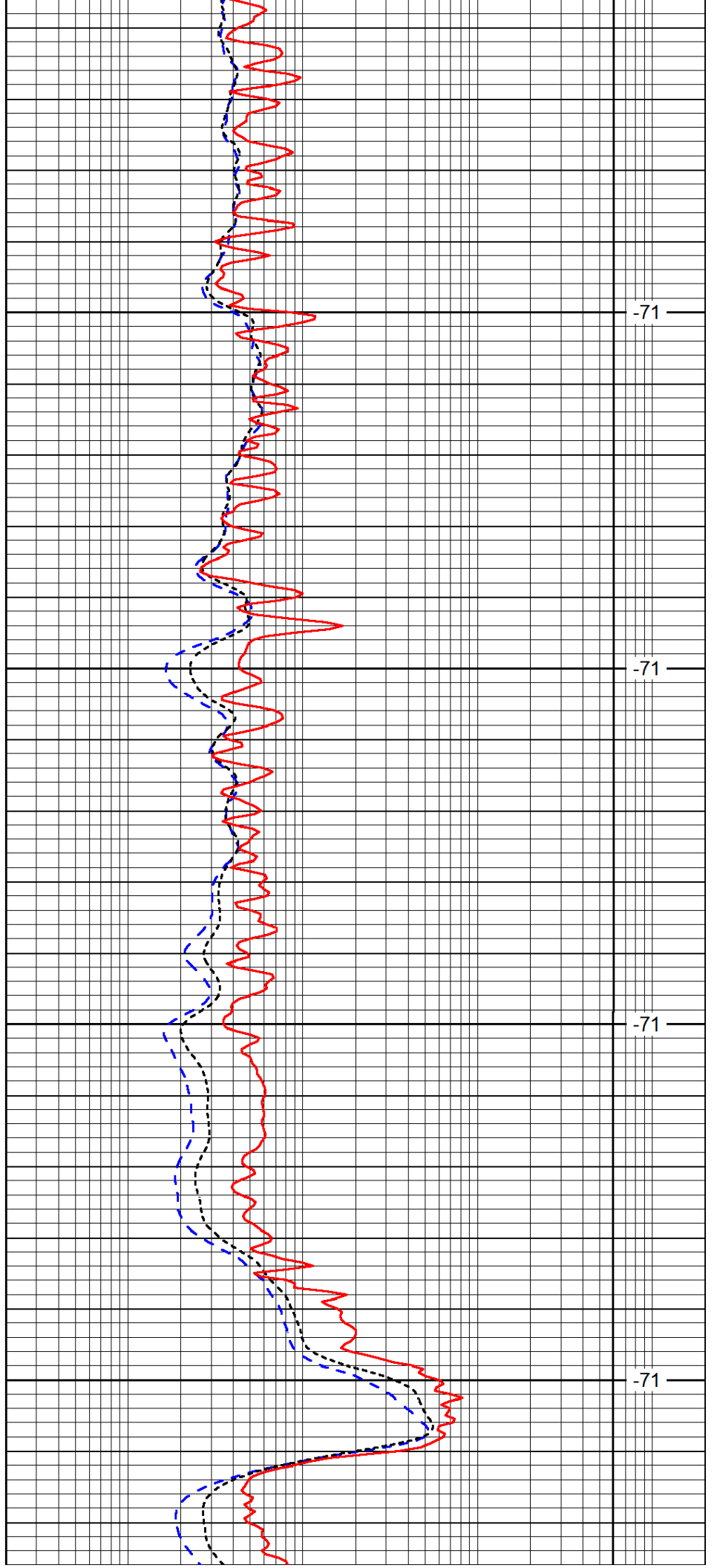


2850

2900

2950

3000

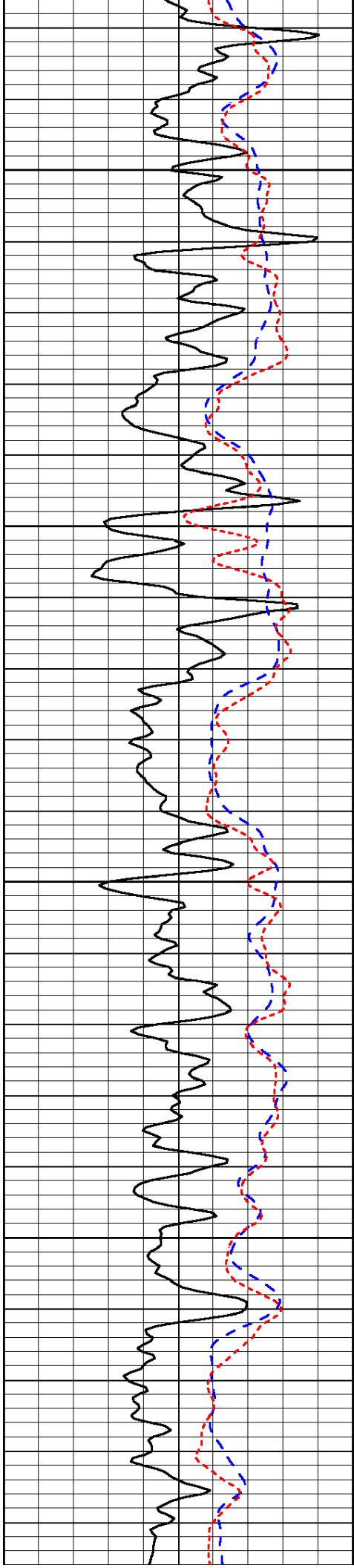


-71

-71

-71

-71

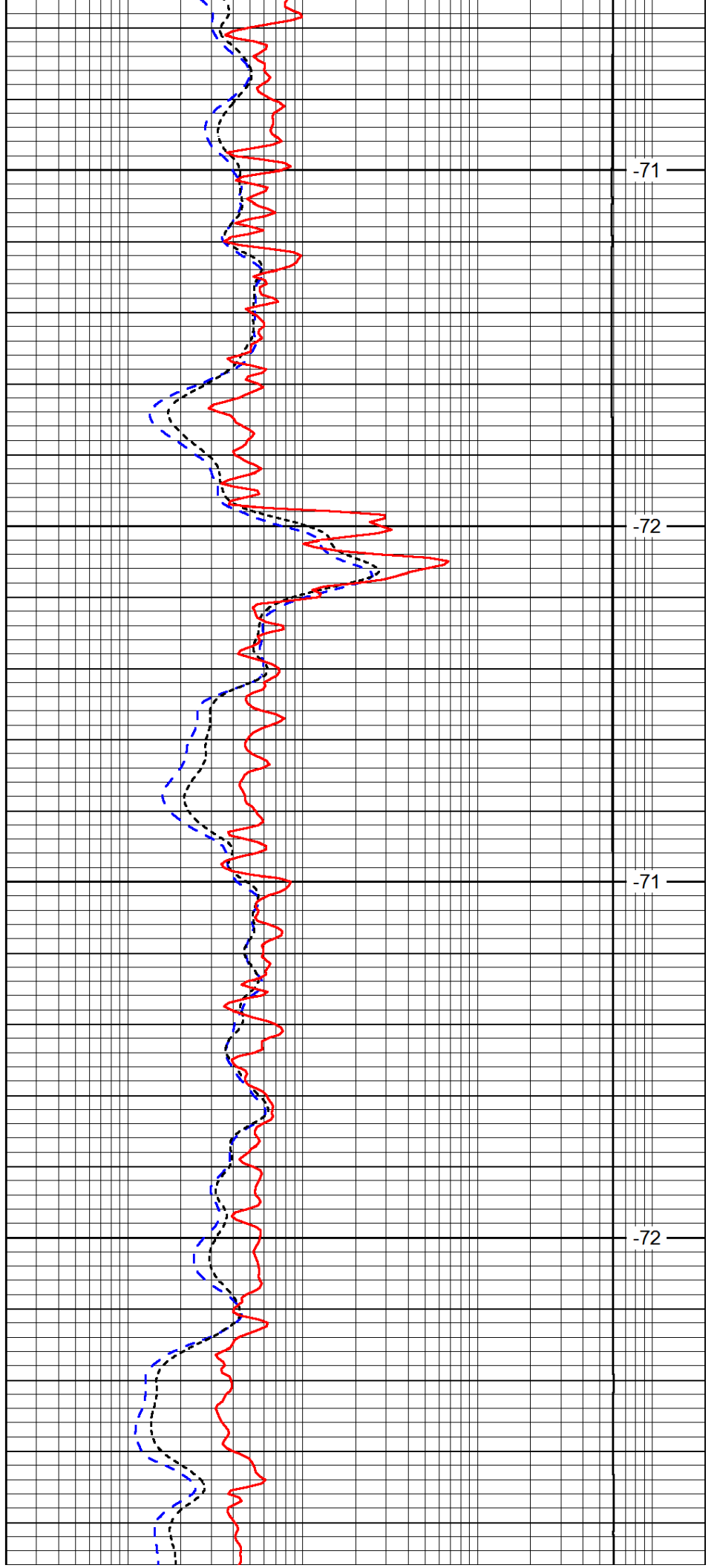


3050

3100

3150

3200

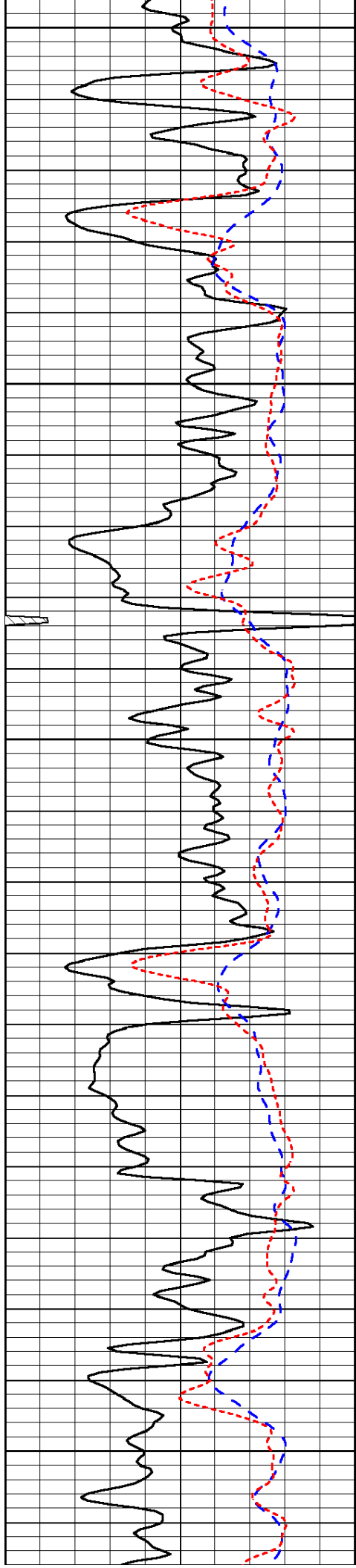


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-72

-71

-72



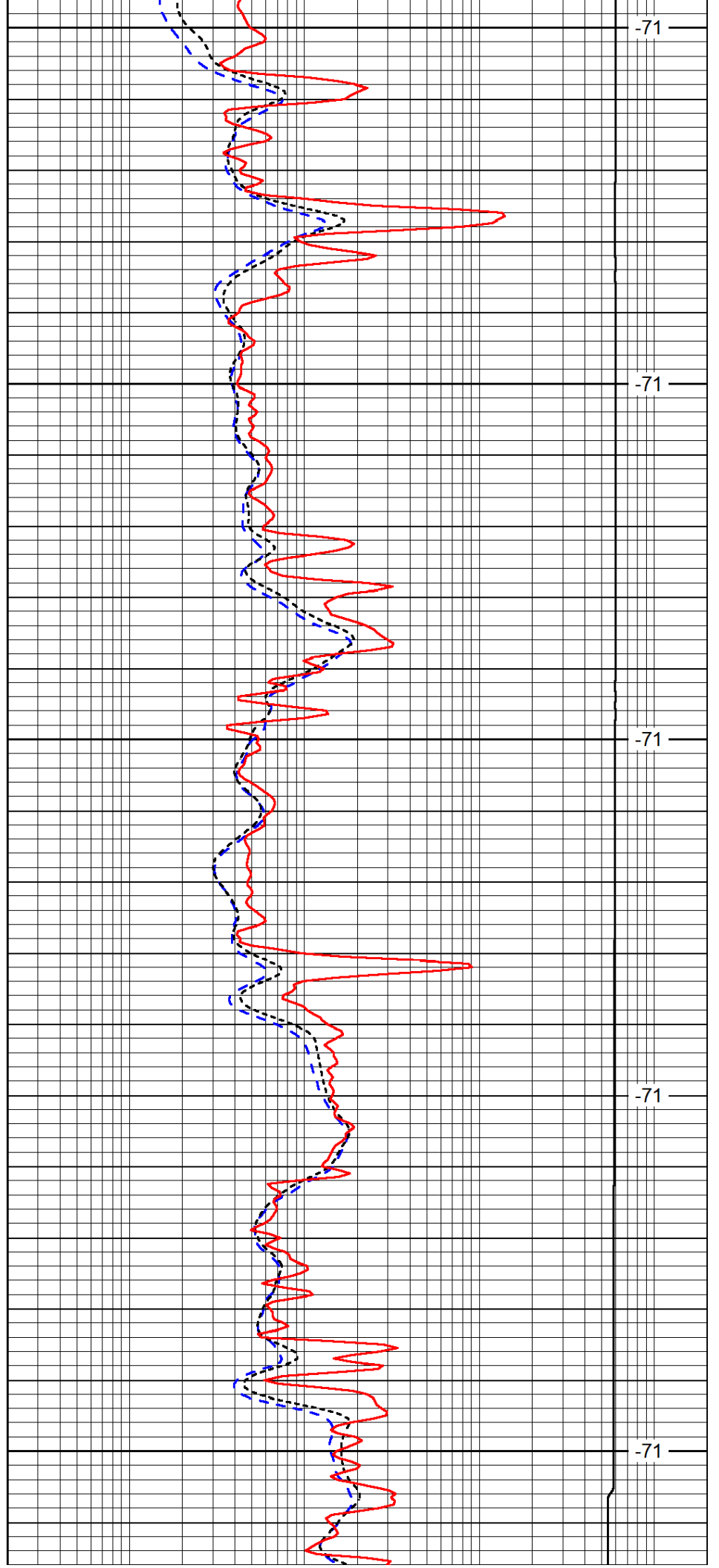
3250

3300

3350

3400

3450



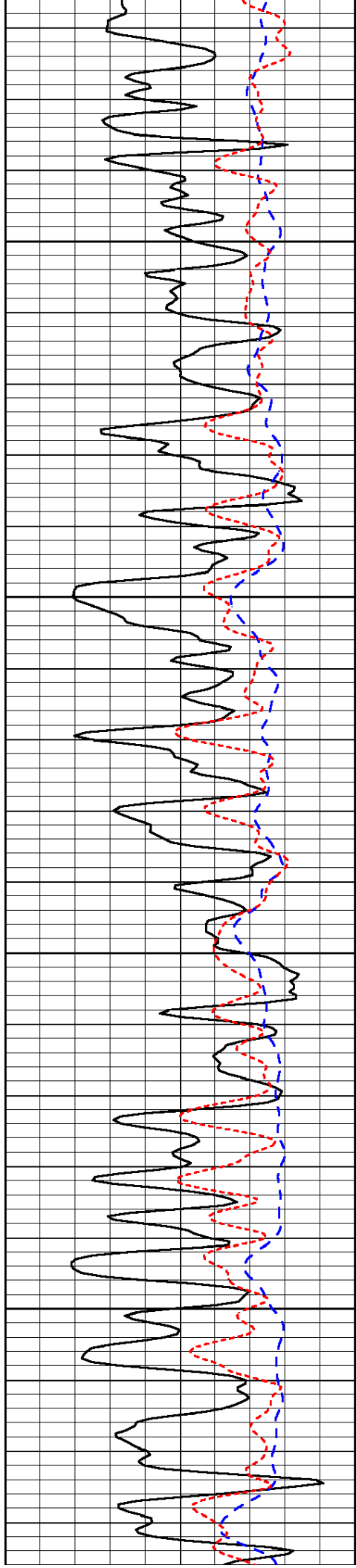
-71

-71

-71

-71

-71

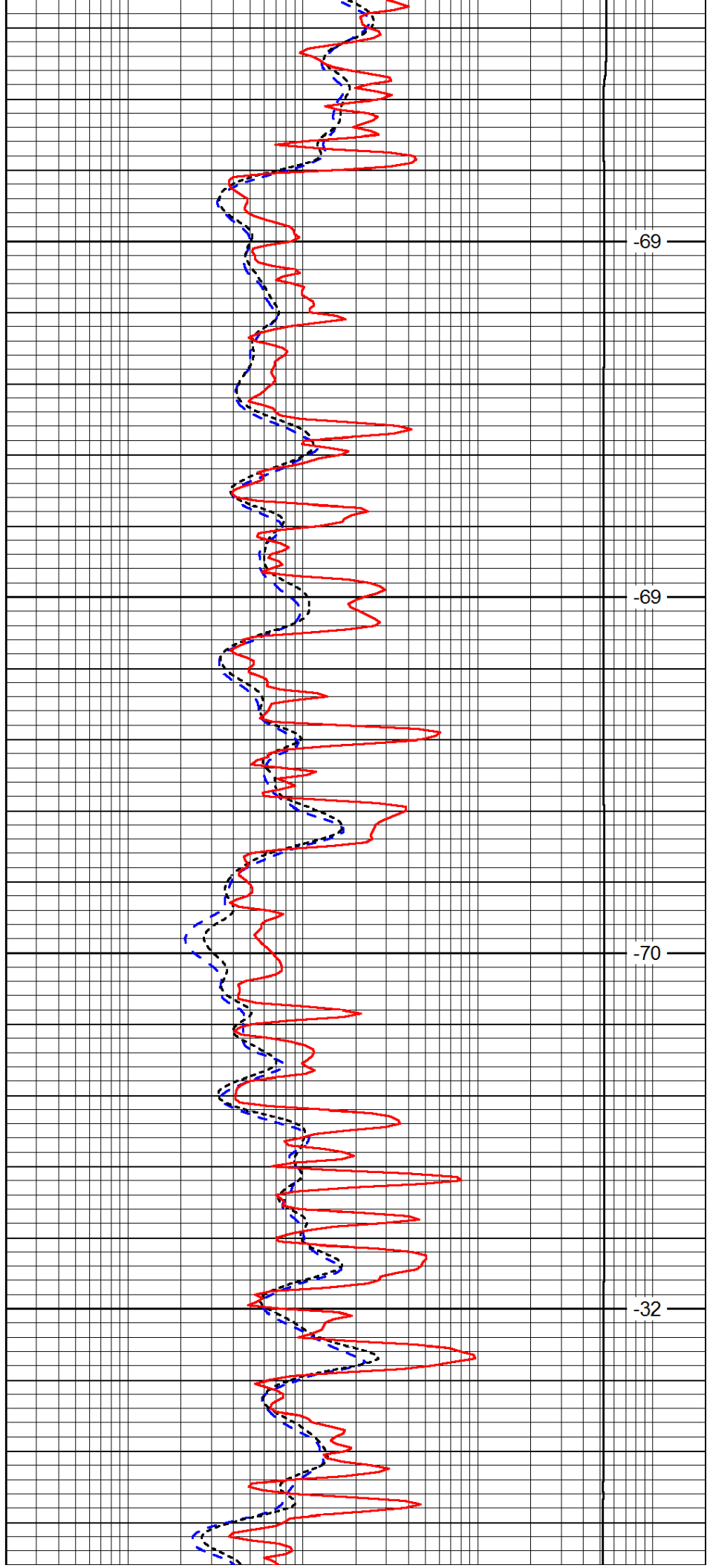


3500

3550

3600

3650

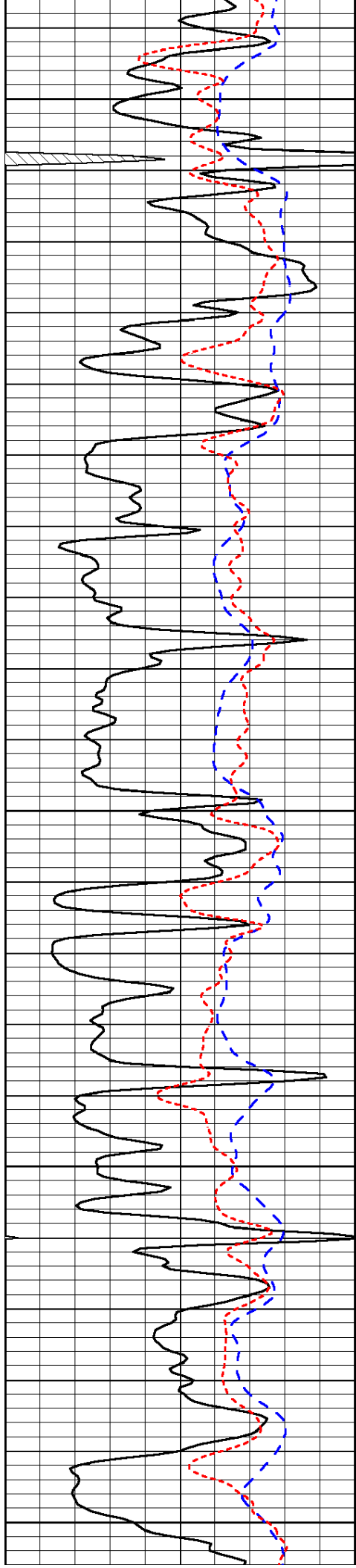


-69

-69

-70

-32



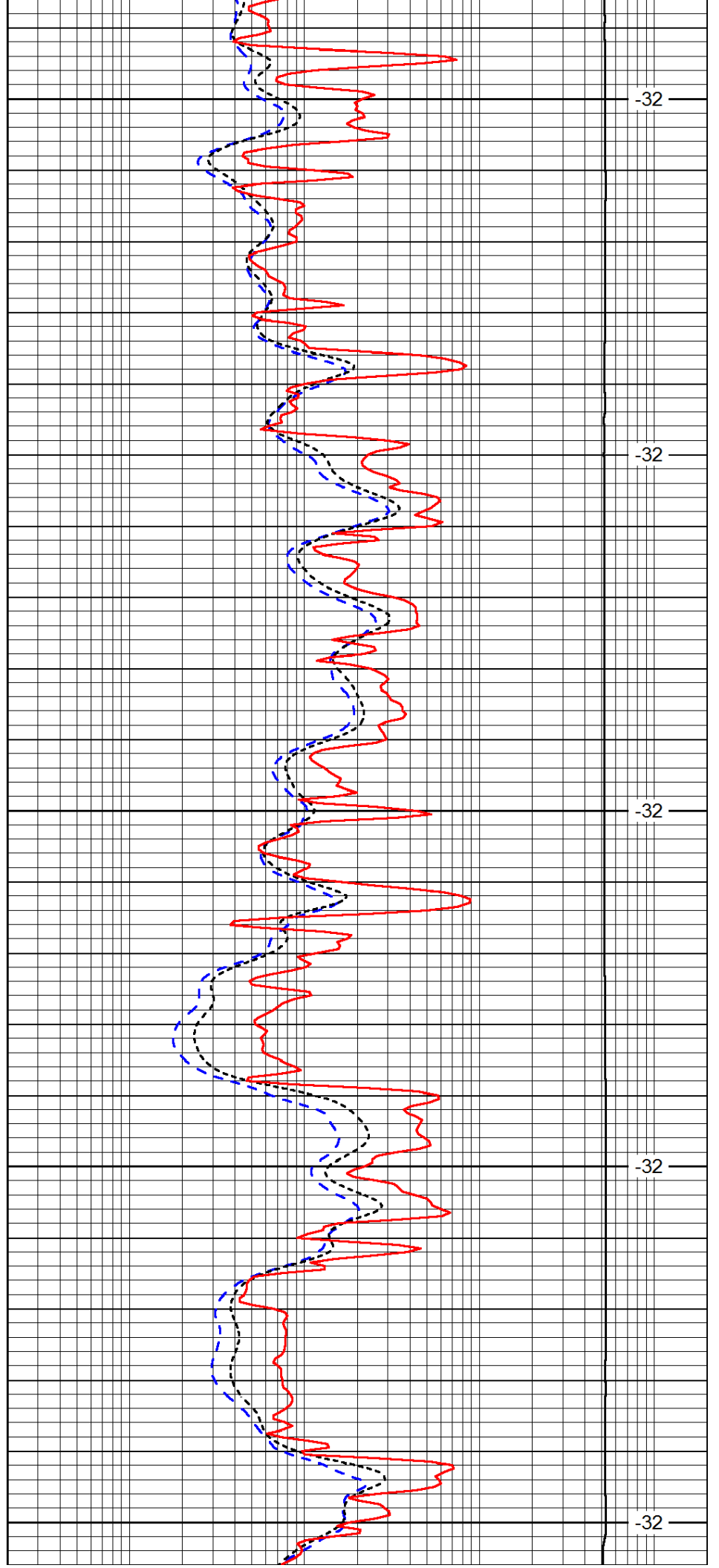
3700

3750

3800

3850

3900



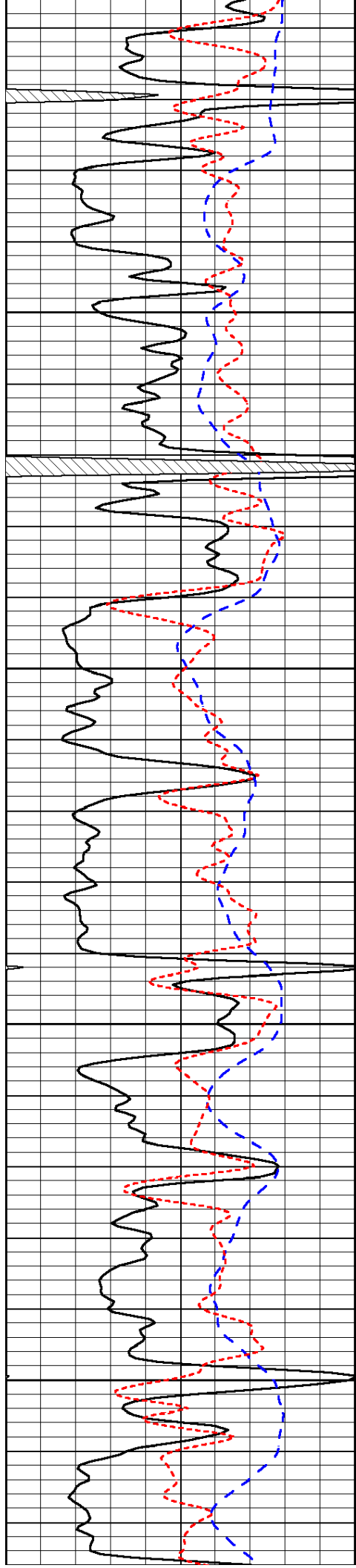
-32

-32

-32

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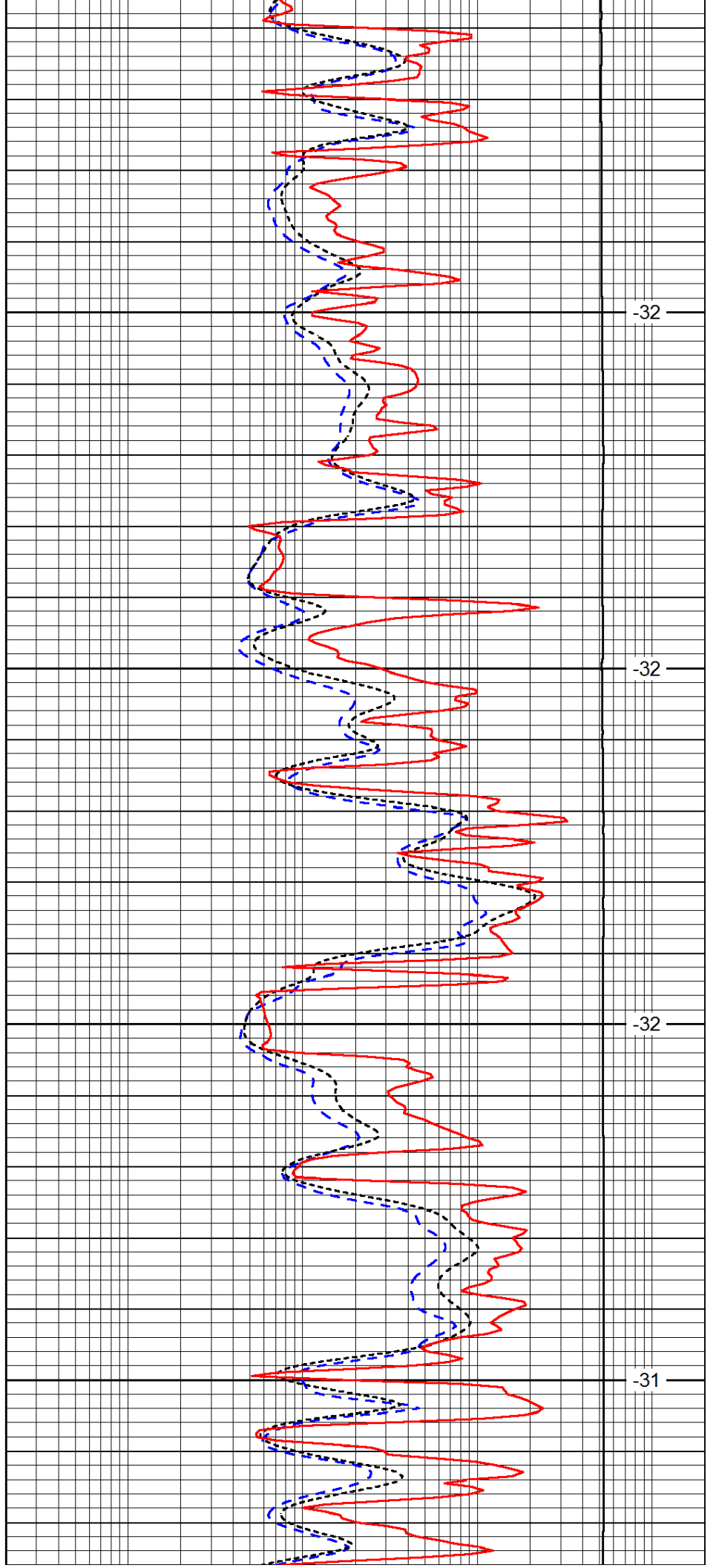


3950

4000

4050

4100

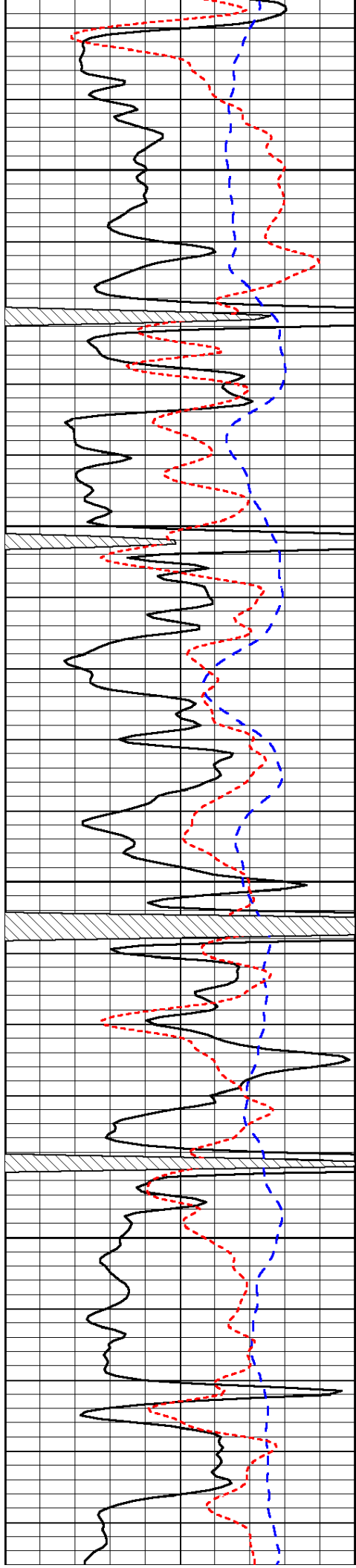


-32

-32

-32

-31

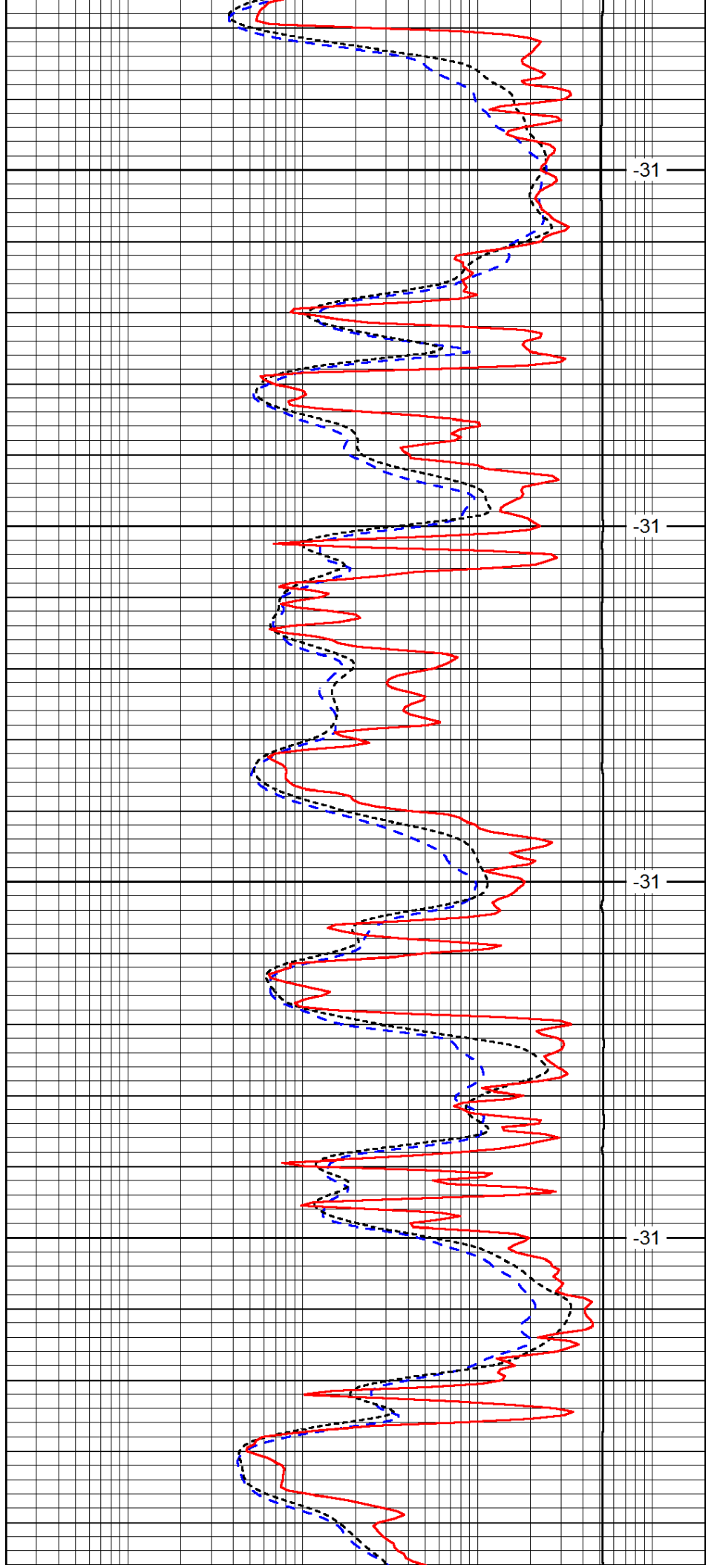


4150

4200

4250

4300

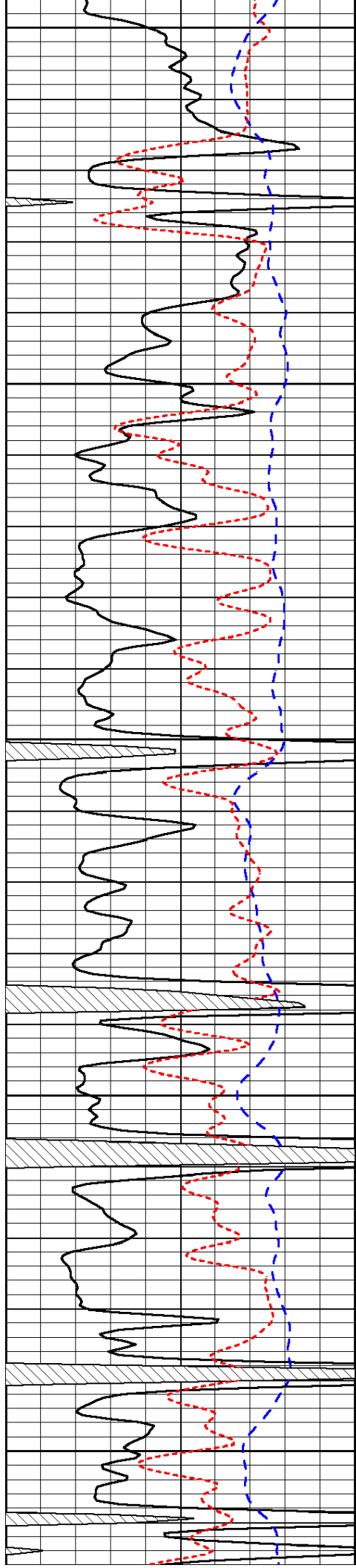


-31

-31

-31

-31



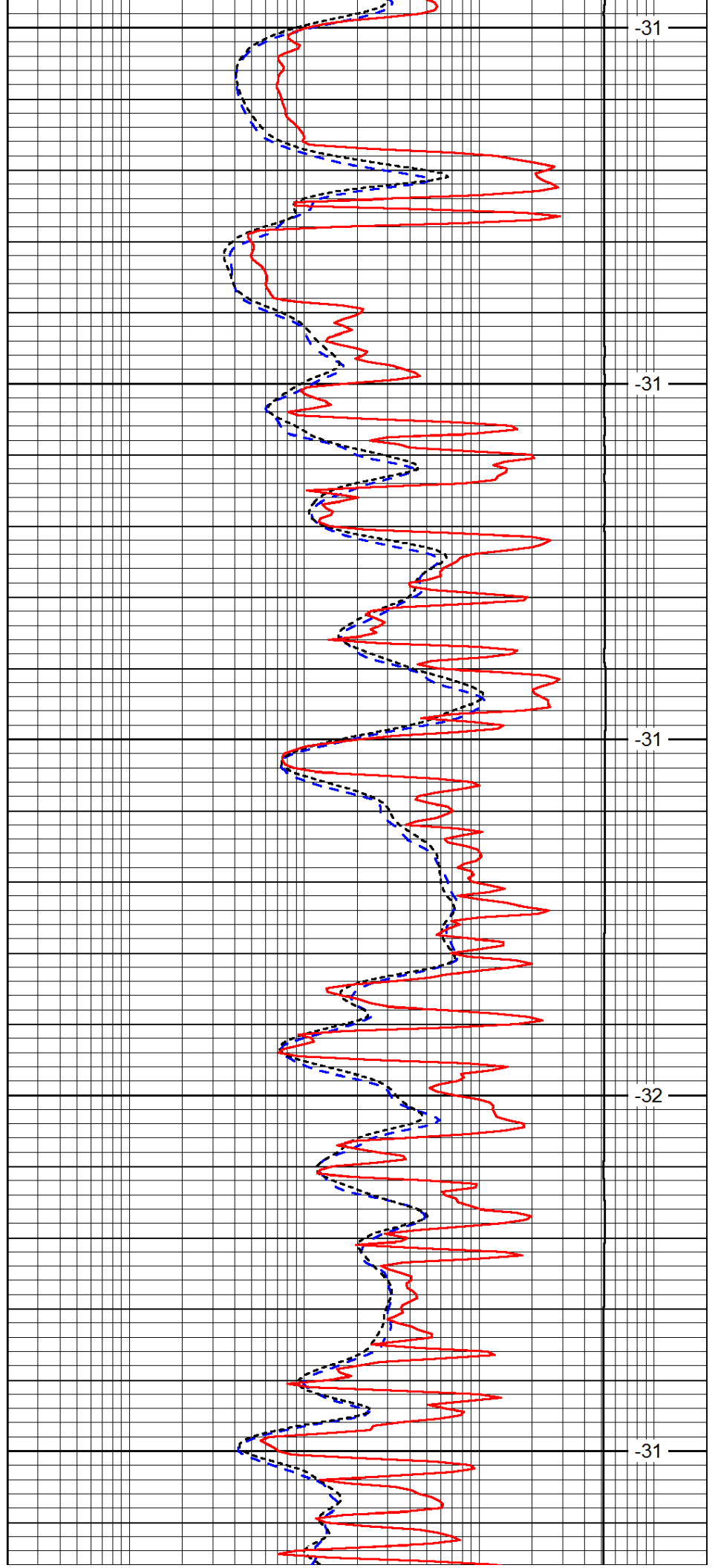
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4400

4450

4500

4550



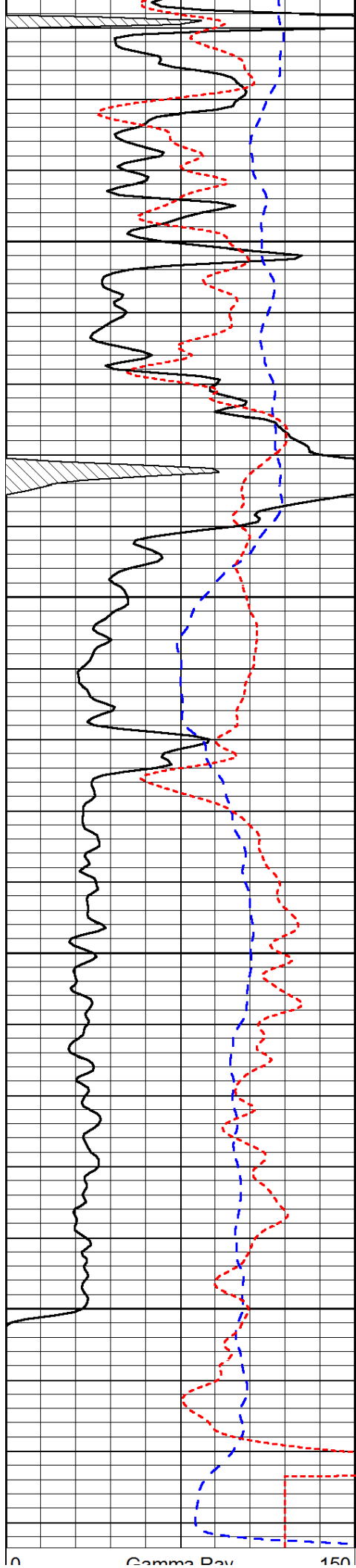
-31

-31

-31

-32

-31



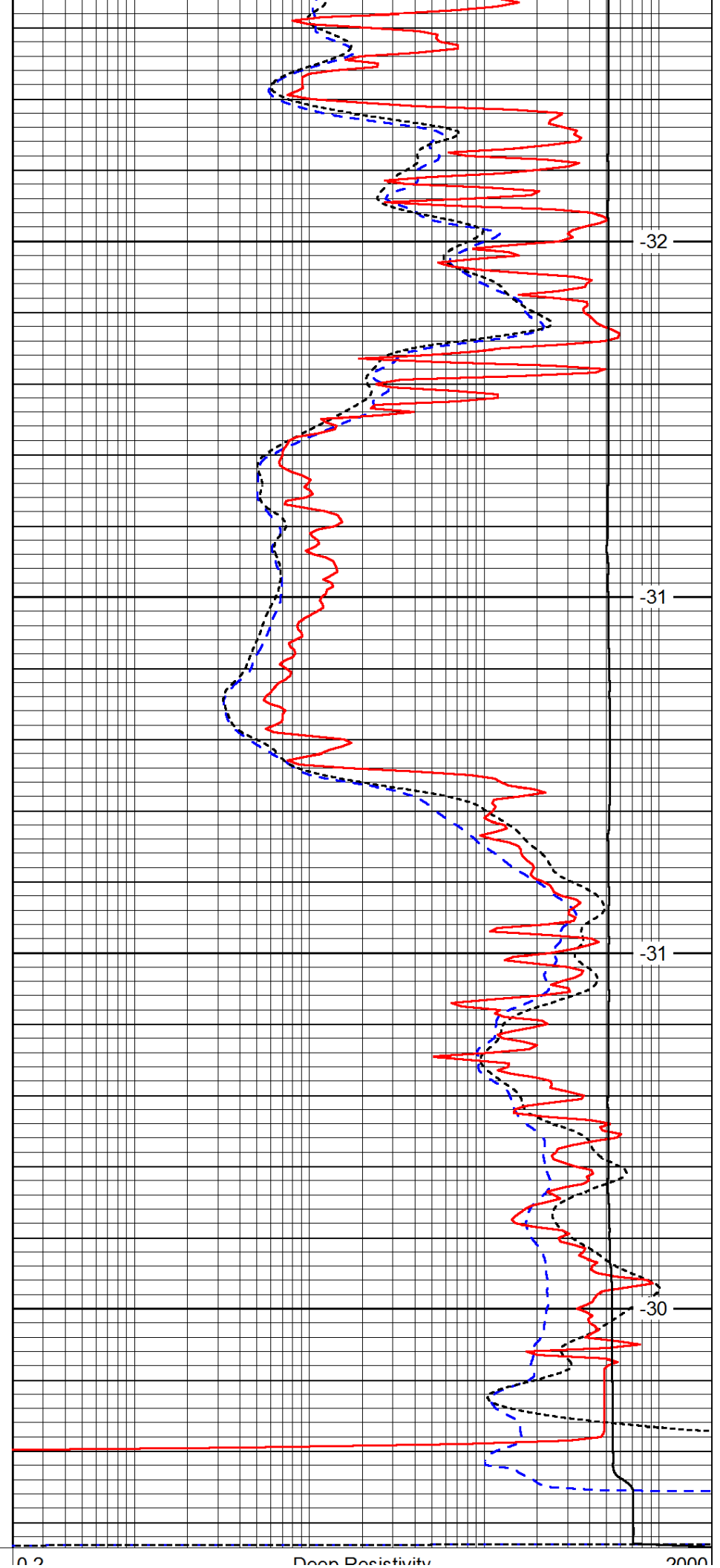
4600

4650

4700

4750

Gamma Ray



-32

-31

-31

-30

Deep Resistivity

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

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

LSPD
