



Dual Induction Log

Pioneer Energy Services

API No.	15-051-26418-00-00		
Company	Murfin Drilling Company, Inc.		
Well	Haneke Inv #1-18		
Field	Wildcat		
County	Ellis	State	Kansas
Location	2550' FNL & 1100' FWL		Other Services CNL/CDL MEL/BHCS
Sec: 18	Twp: 11S	Rge: 20W	Elevation
Permanent Datum	Ground Level	Elevation 2135	K.B. 2140
Log Measured From	Kelly Bushing	5 Ft. Above Perm. Datum	D.F. 2135
Drilling Measured From	Kelly Bushing		G.L. 2135
Date	11/9/2012		
Run Number	One		
Depth Driller	3814		
Depth Logger	3812		
Bottom Logged Interval	3811		
Top Log Interval	200		
Casing Driller	8.625 @ 217		
Casing Logger	00		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	6900		
Density / Viscosity	9.3	51	
pH / Fluid Loss	10.5	7.2	
Source of Sample	Flowline		
Rm @ Meas. Temp	0.28 @ 68		
Rmf @ Meas. Temp	0.28 @ 68		
Rmc @ Meas. Temp	0.38 @ 68		
Source of Rmf / Rmc	Charts		
Rm @ BHT	0.16 @ 116		
Operating Rig Time	5 Hours		
Max Rec. Temp. F	116		
Equipment Number	91		
Location	Hays		
Recorded By	D. Schmidt		
Witnessed By	Paul Gunzelman		

<<< Fold Here >>>

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

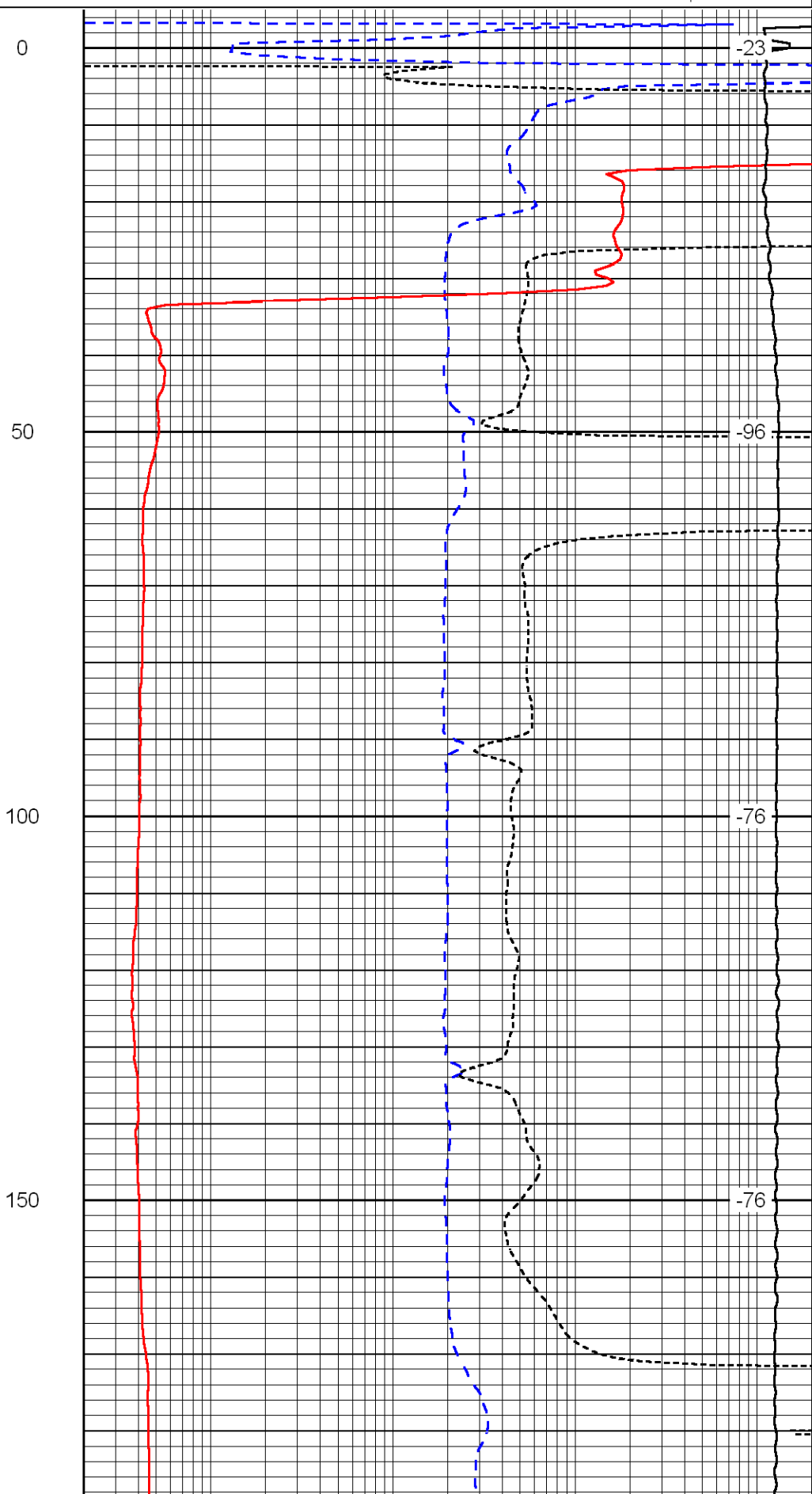
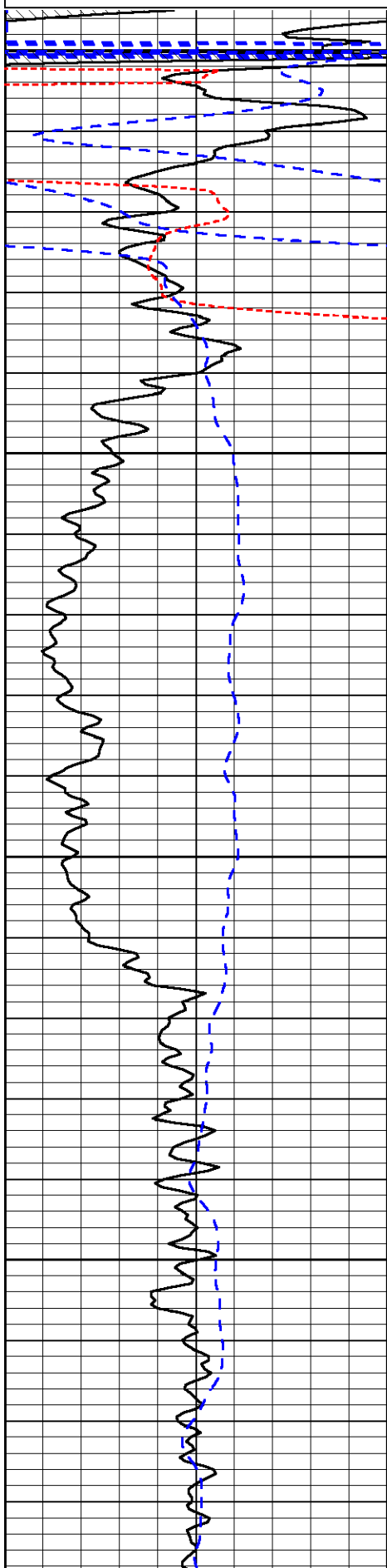
Ellis,
10 1/2 North to Riverview Rd, 2 West, 1 North, 1 West, 1/2 South,
East into

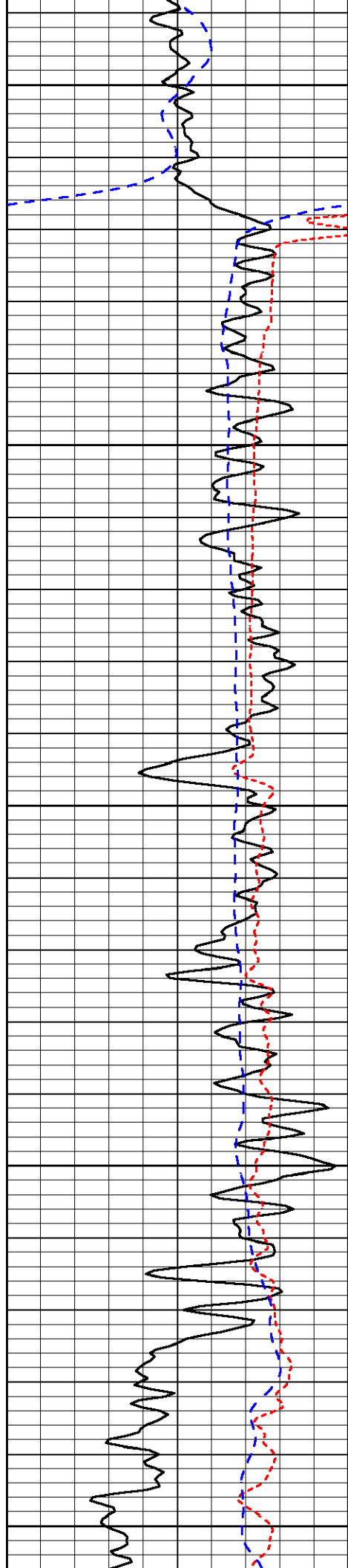
Database File: murfin_110912hd.db
Dataset Pathname: dil/mrfstack
Presentation Format: dil
Dataset Creation: Fri Nov 09 20:40:04 2012
Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150
-160	RXO/RT	40
-200	SP	0

0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
10000	Line Tension	0

LSPD





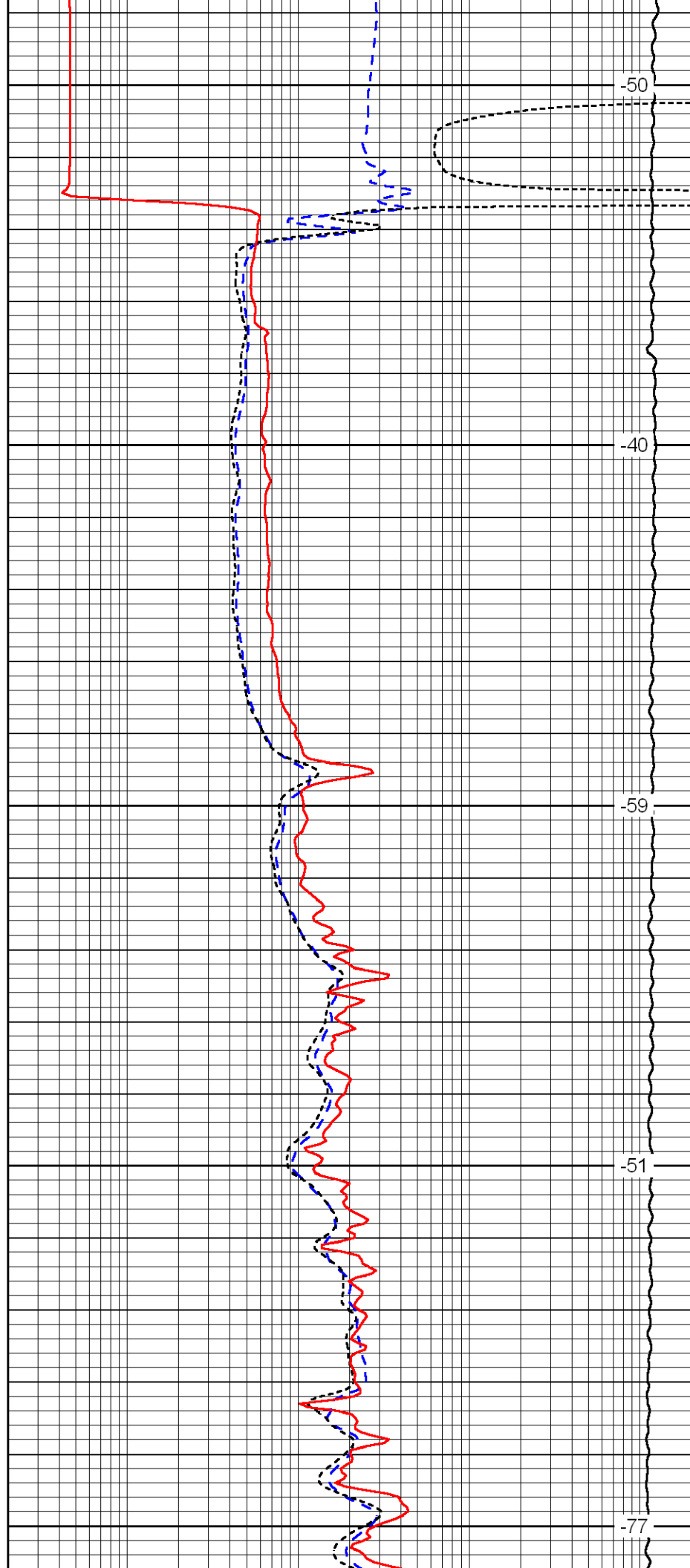
200

250

300

350

400



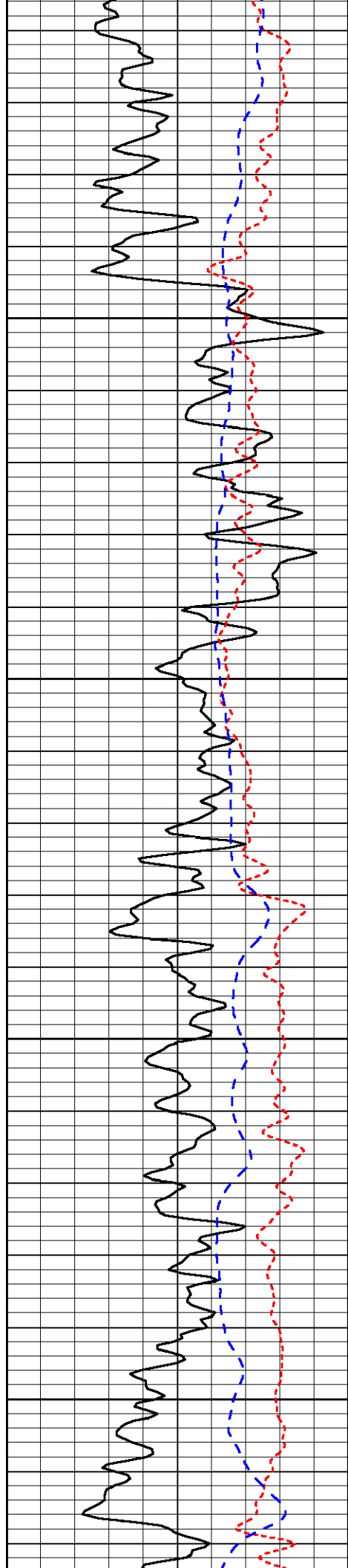
-50

-40

-59

-51

-77

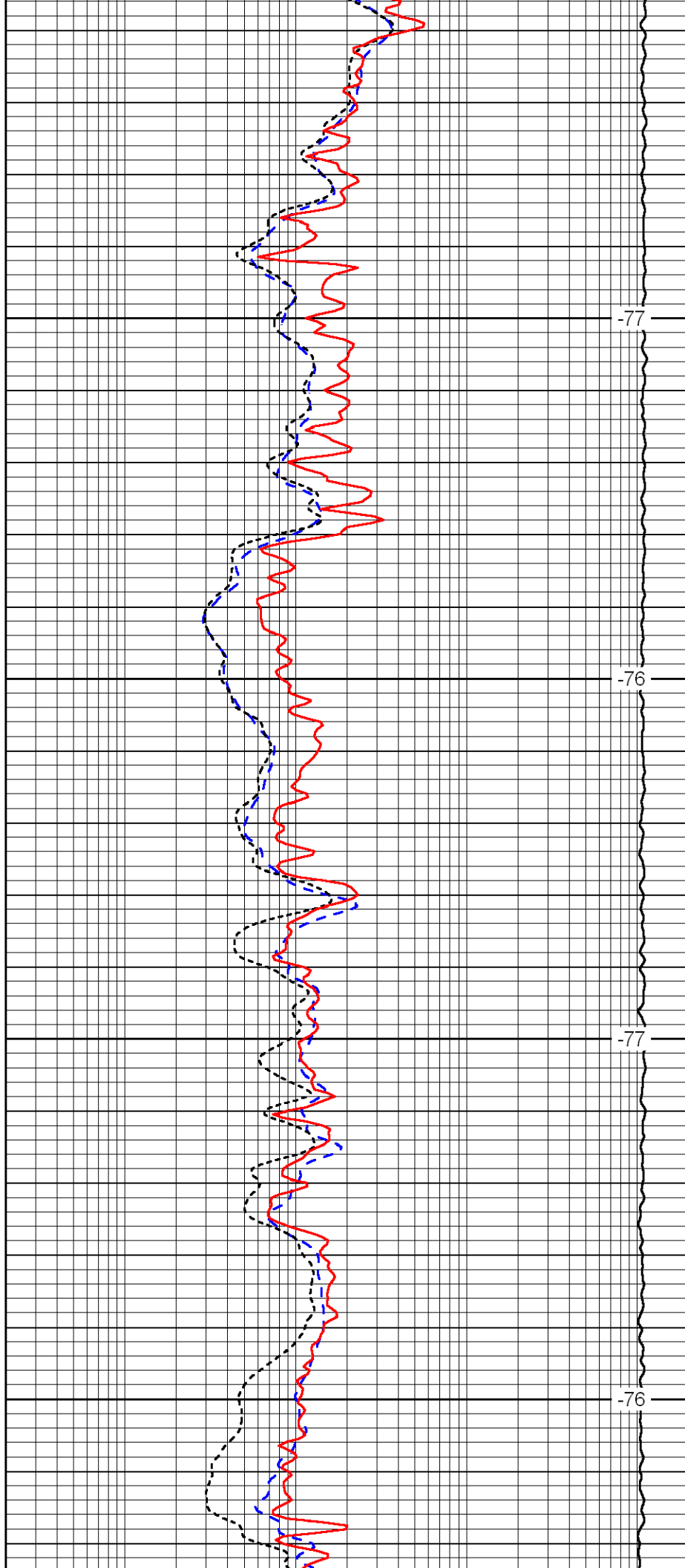


450

500

550

600

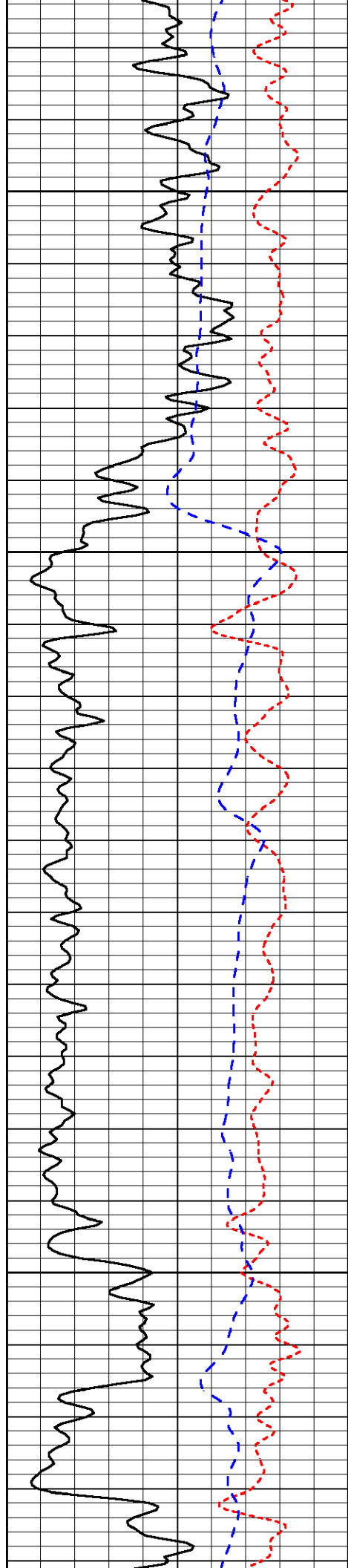


-77

-76

-77

-76

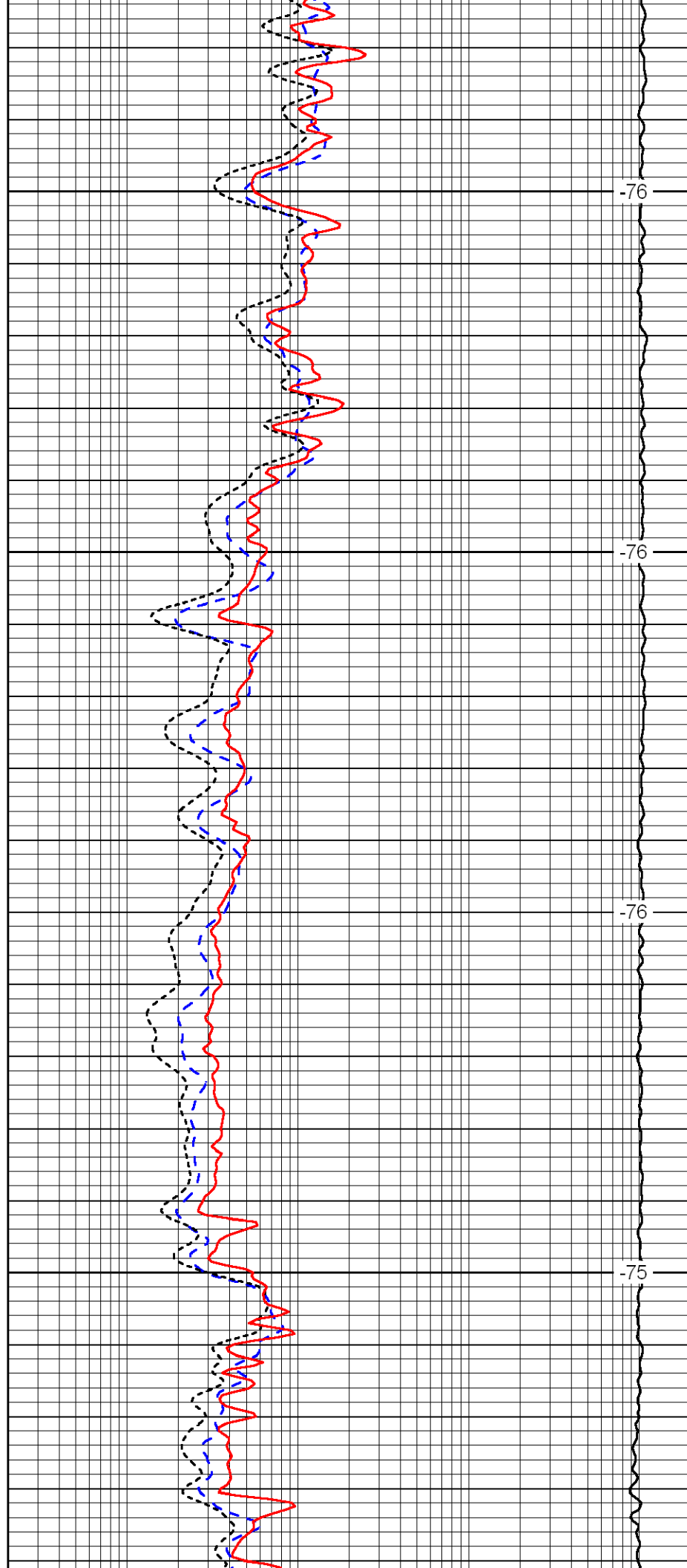


650

700

750

800

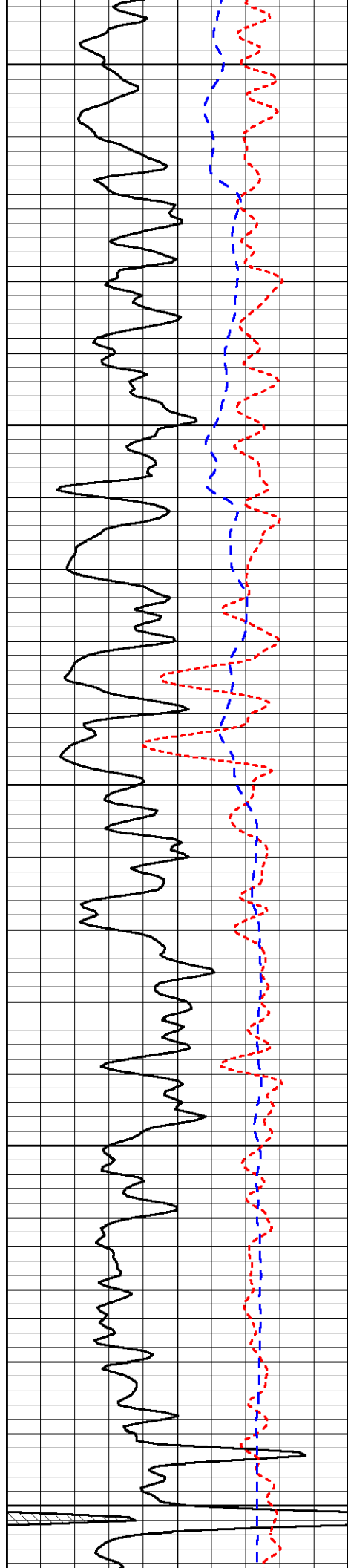


-76

-76

-76

-75



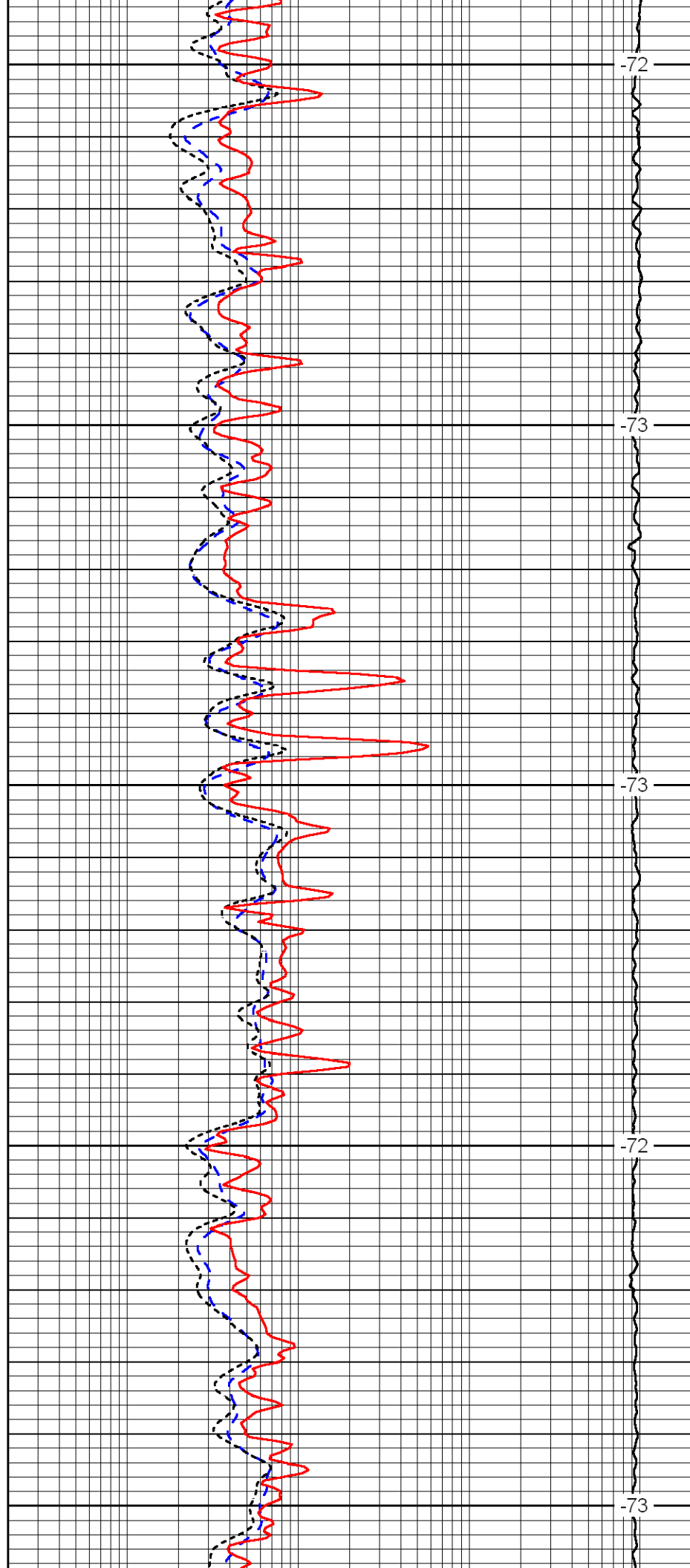
850

900

950

1000

1050



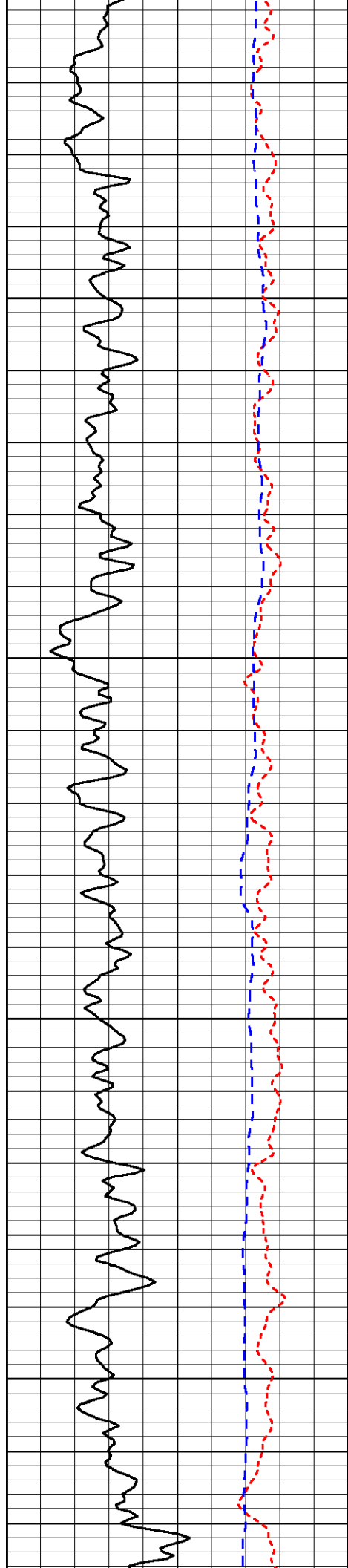
-72

-73

-73

-72

-73

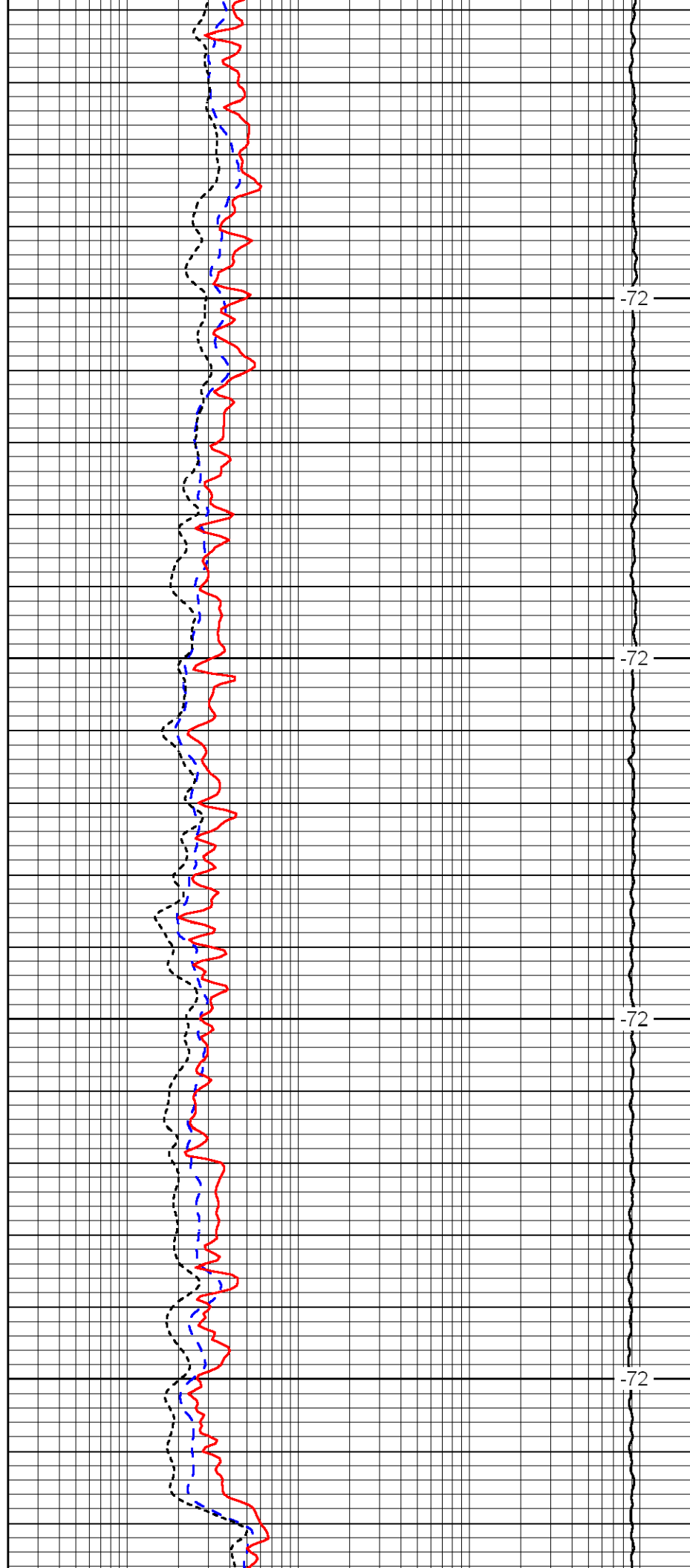


1100

1150

1200

1250

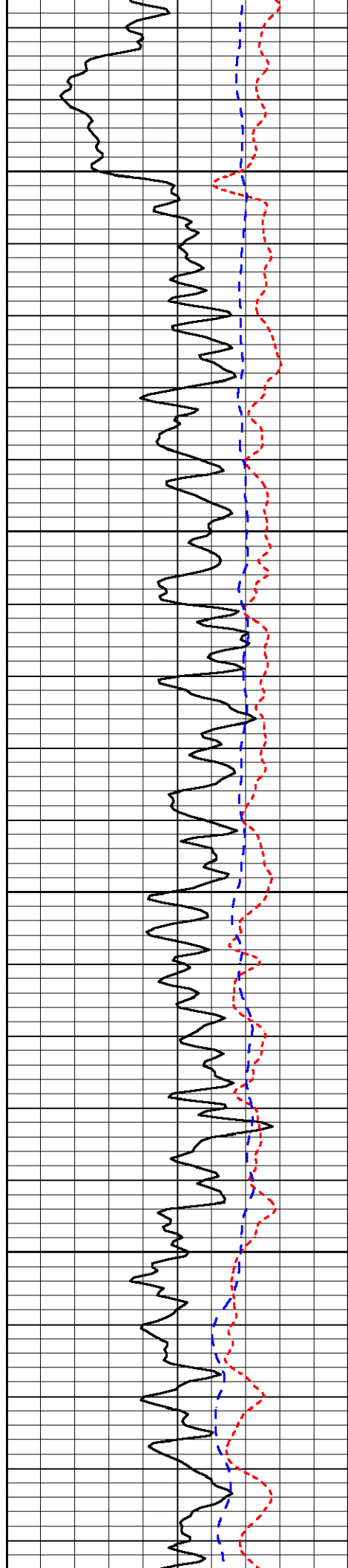


-72

-72

-72

-72

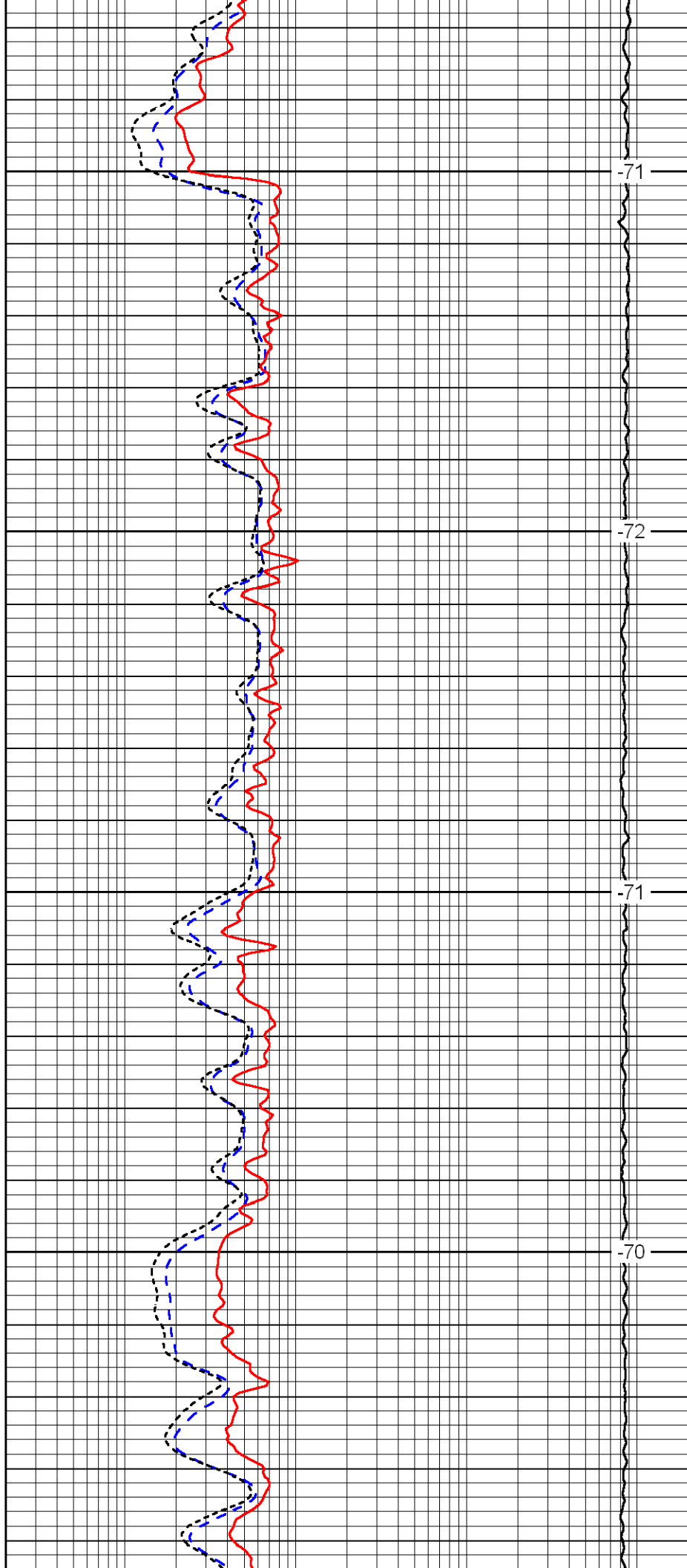


1300

1350

1400

1450

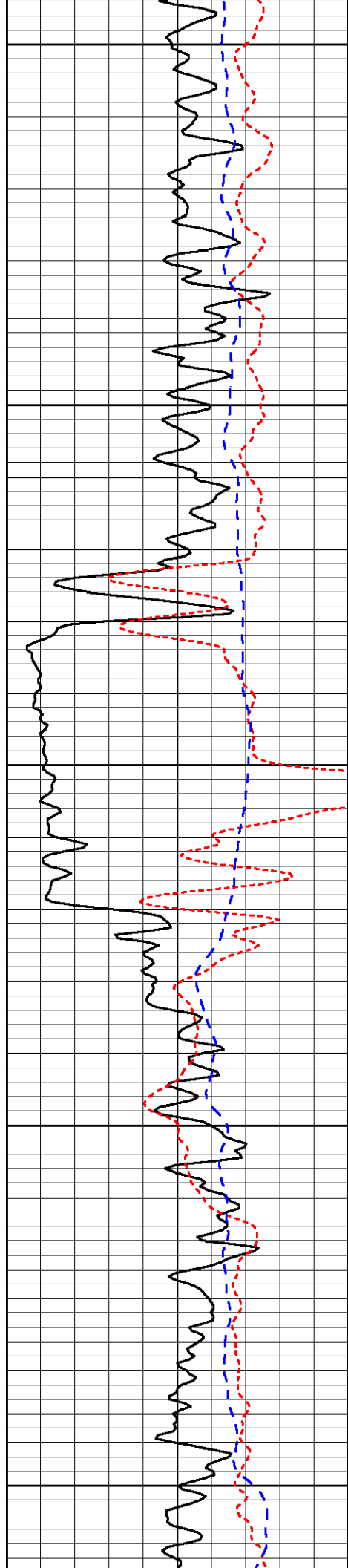


-71

-72

-71

-70



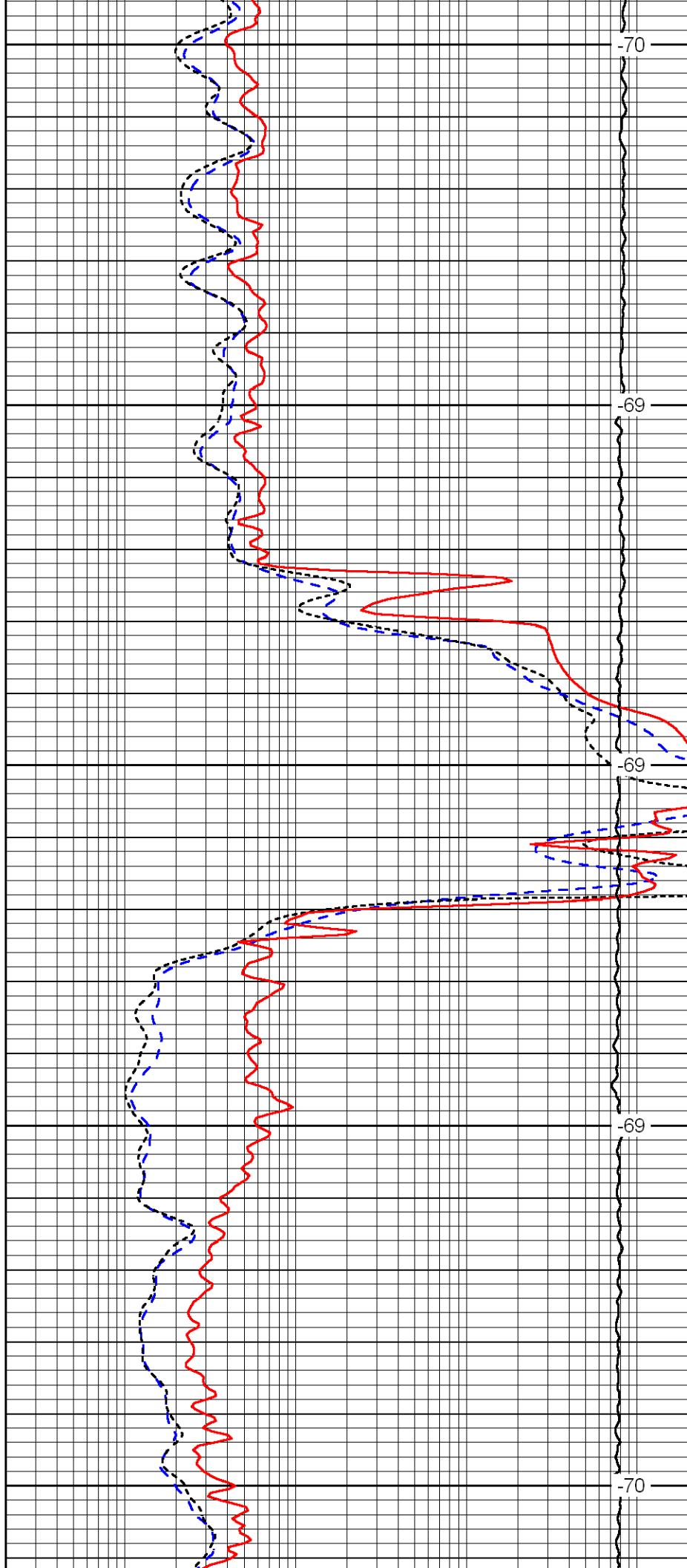
1500

1550

1600

1650

1700



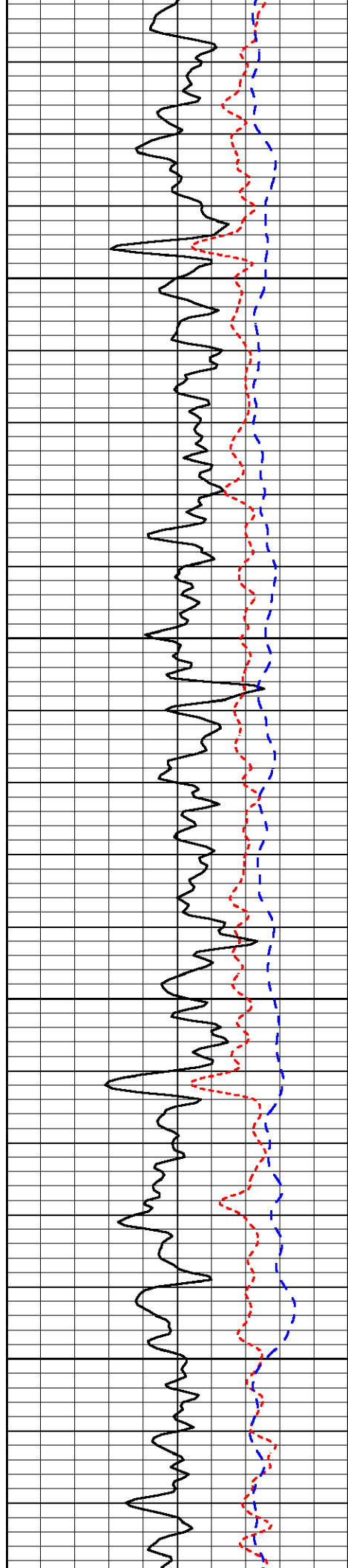
-70

-69

-69

-69

-70

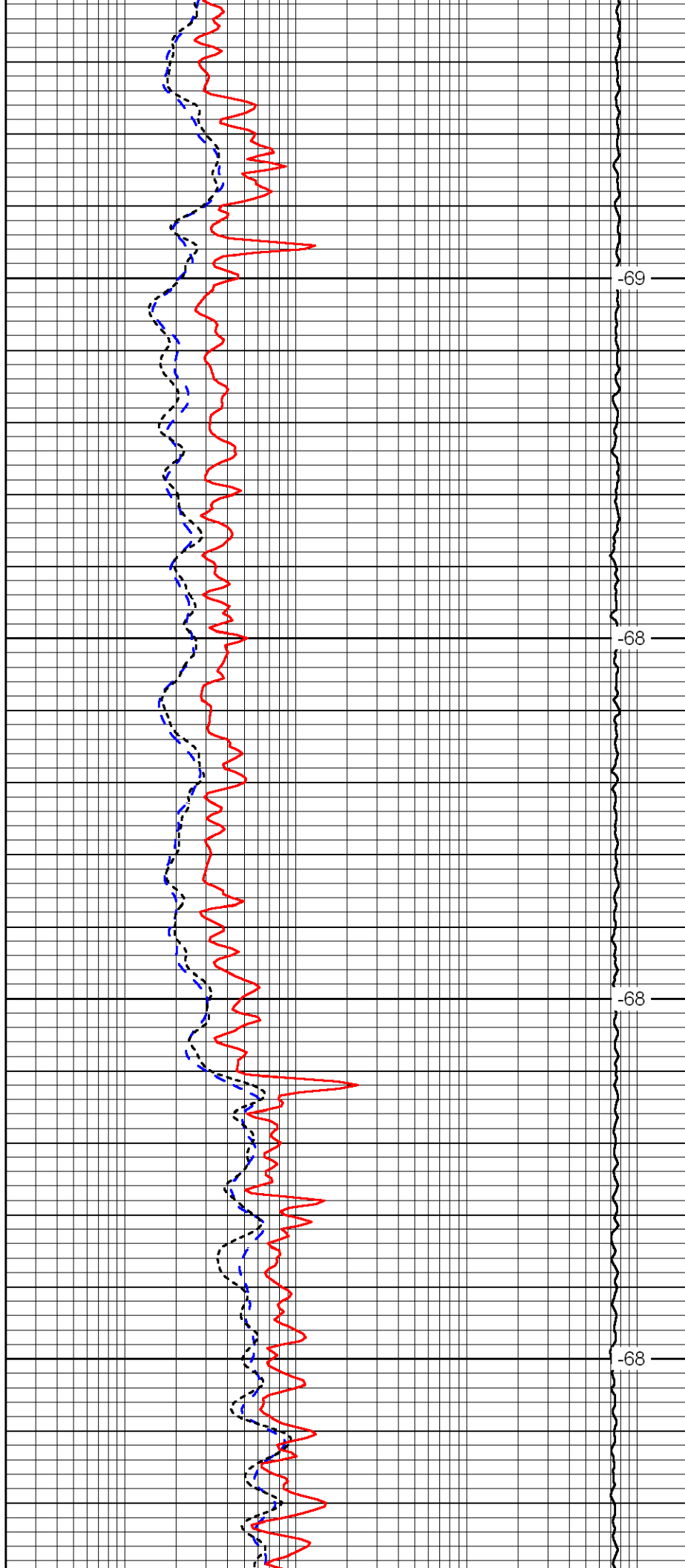


1750

1800

1850

1900

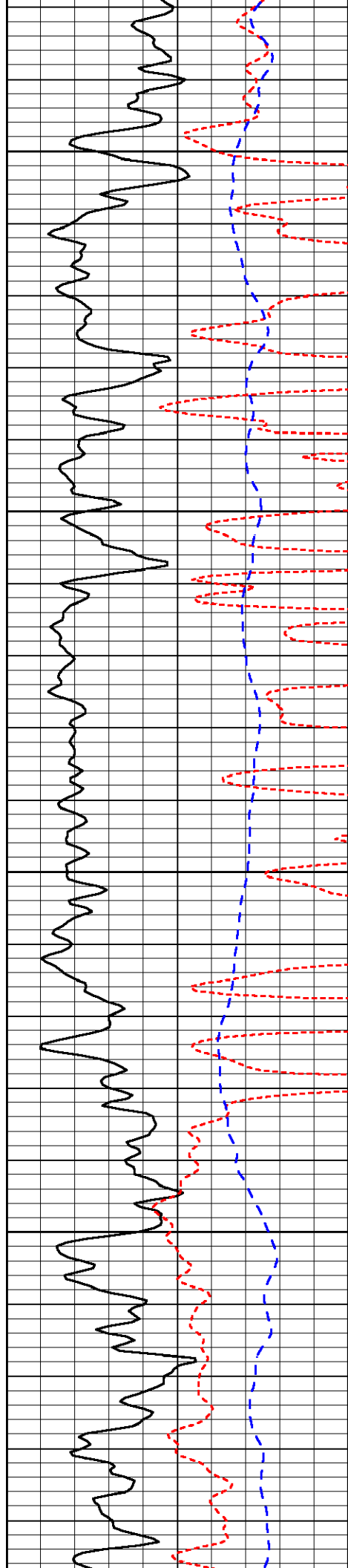


-69

-68

-68

-68

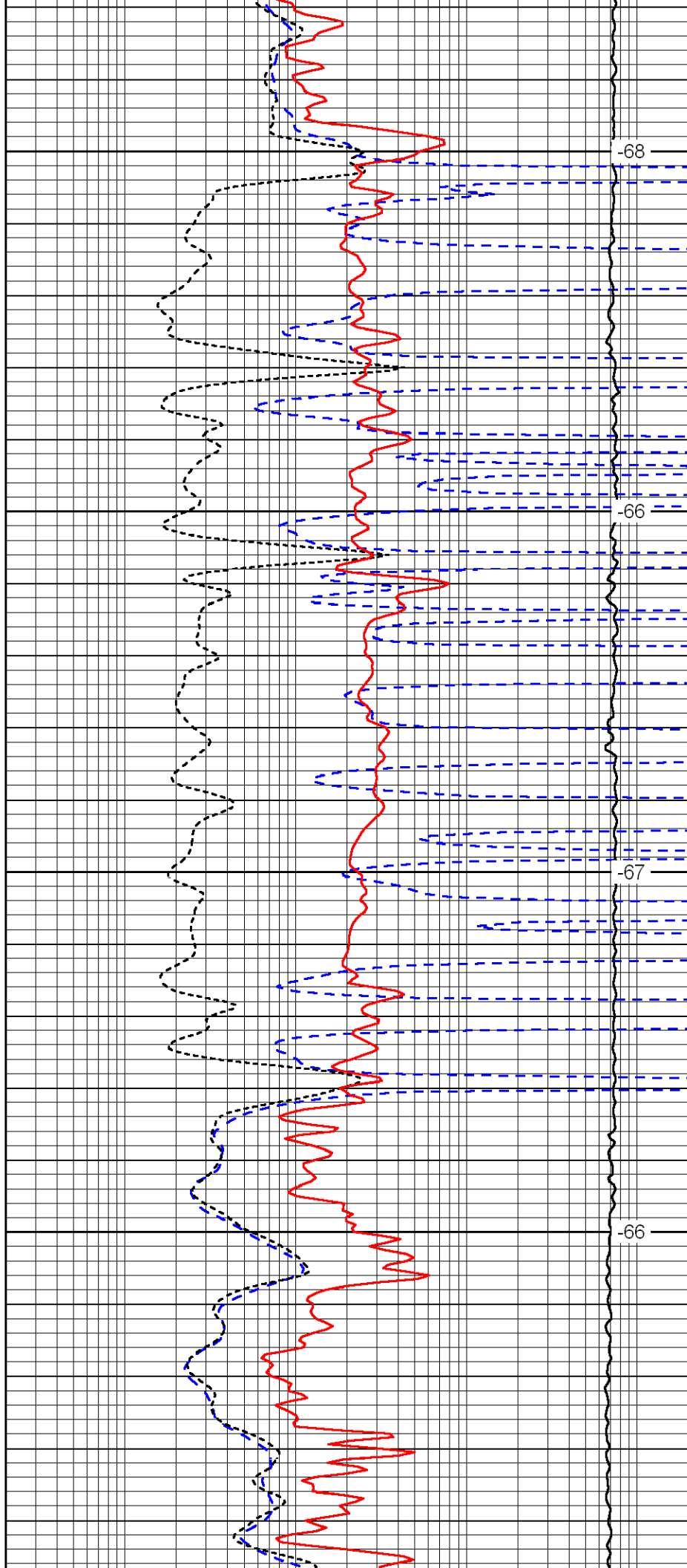


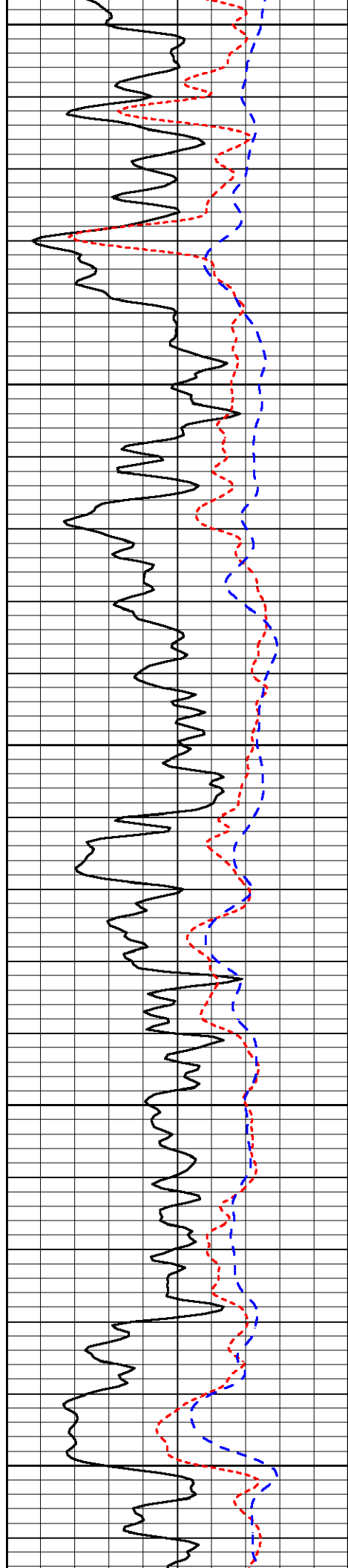
1950

2000

2050

2100





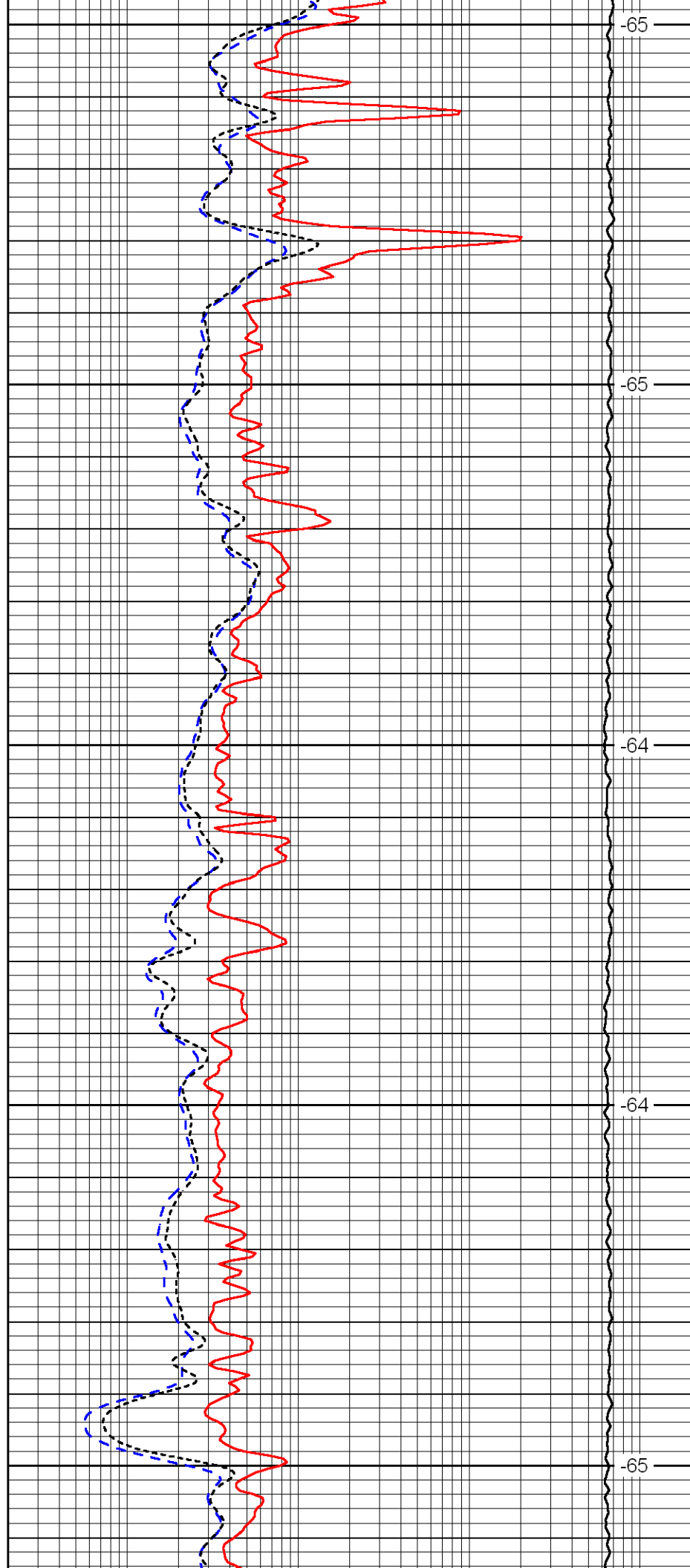
2150

2200

2250

2300

2350



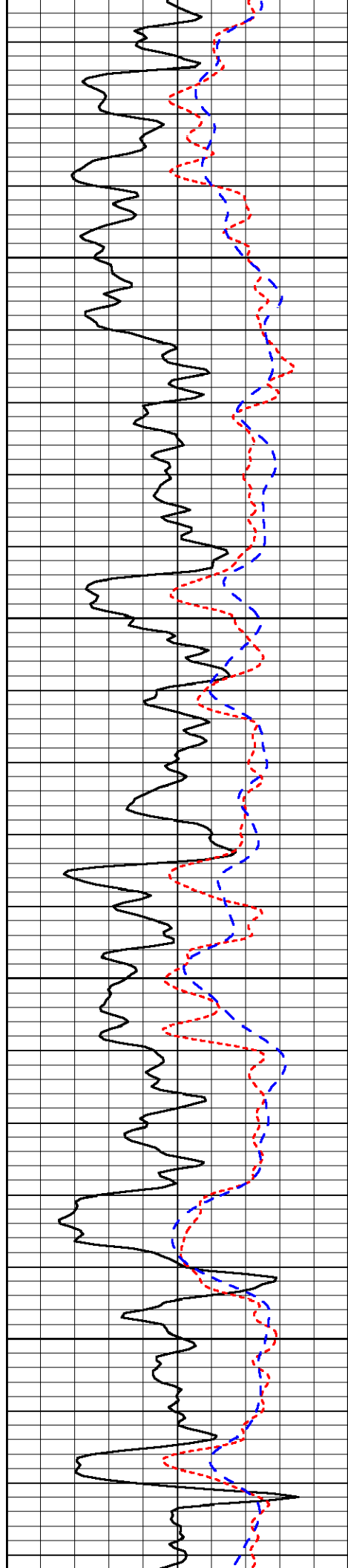
-65

-65

-64

-64

-65

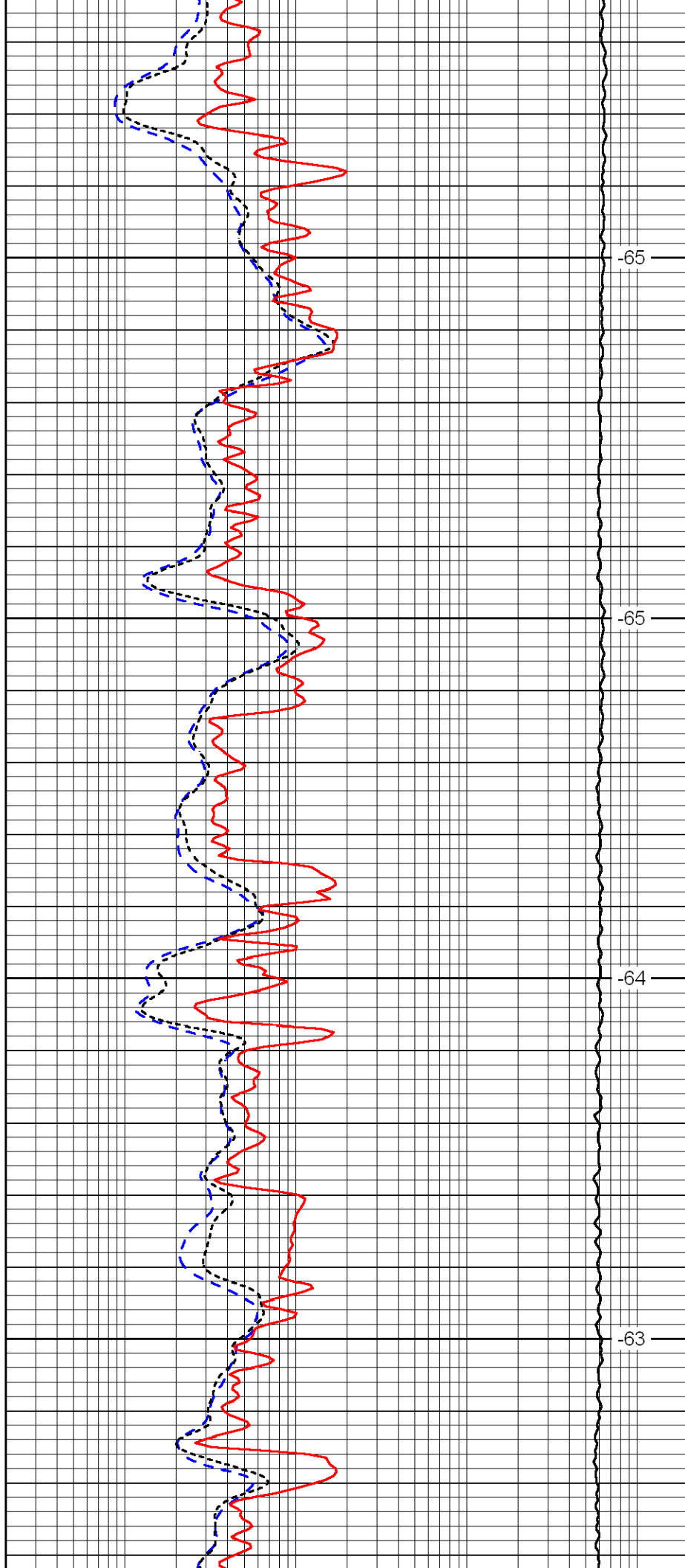


2400

2450

2500

2550

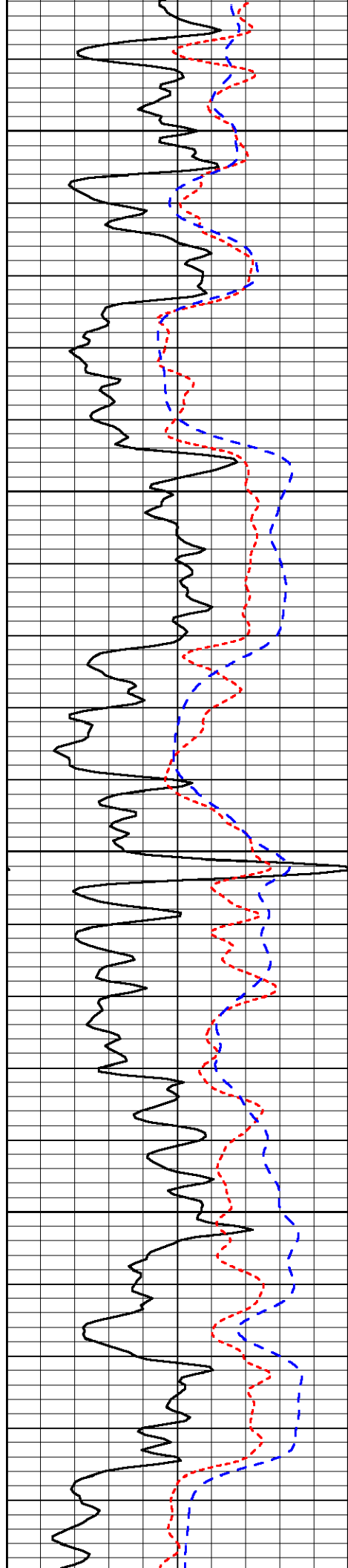


-65

-65

-64

-63



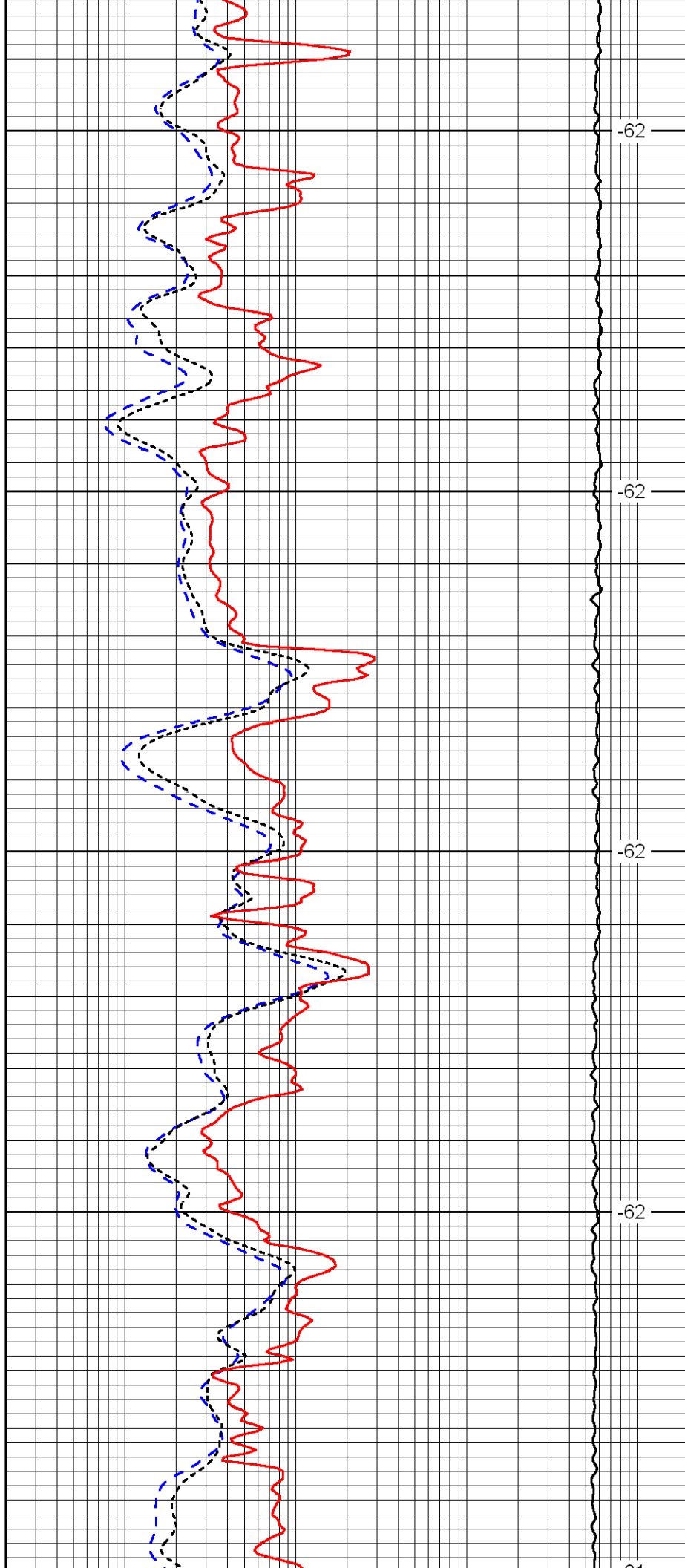
2600

2650

2700

2750

2800



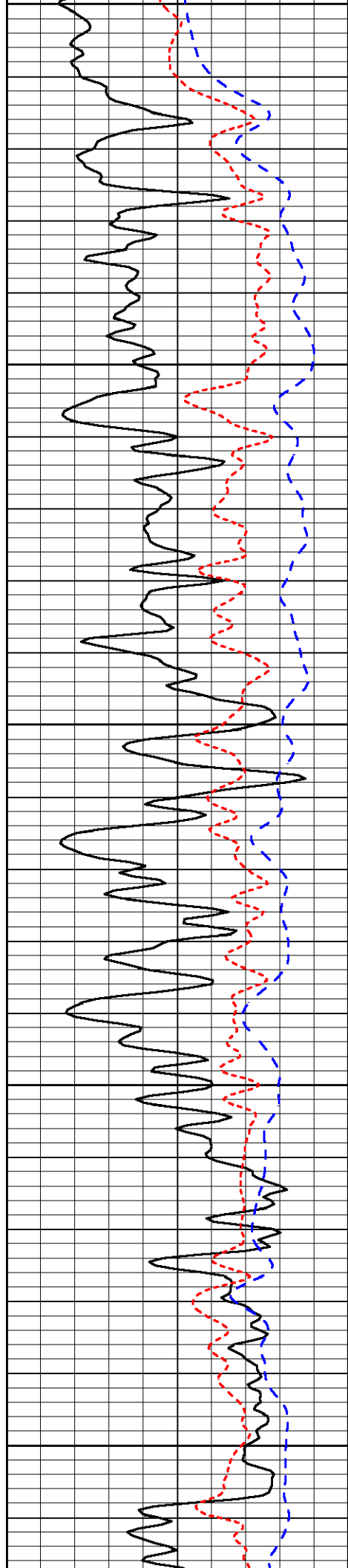
-62

-62

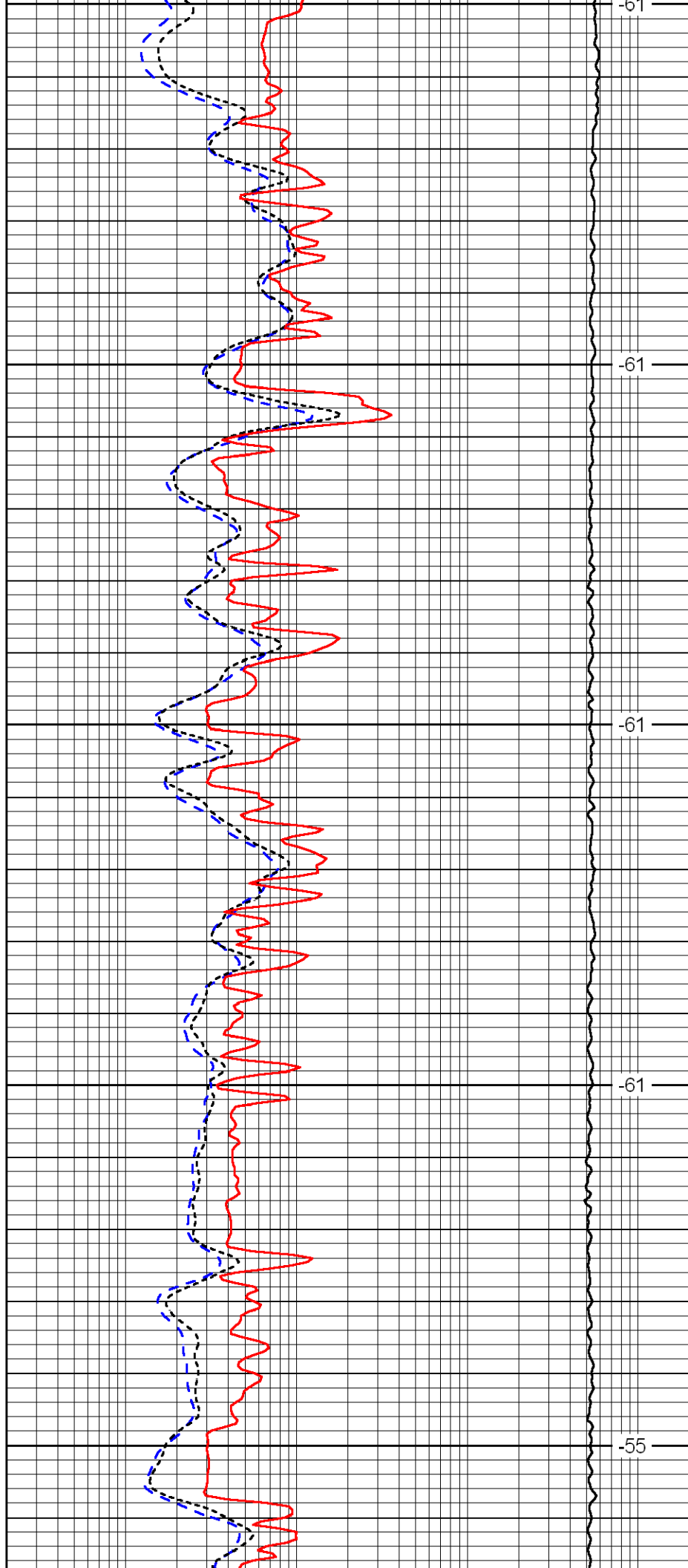
-62

-62

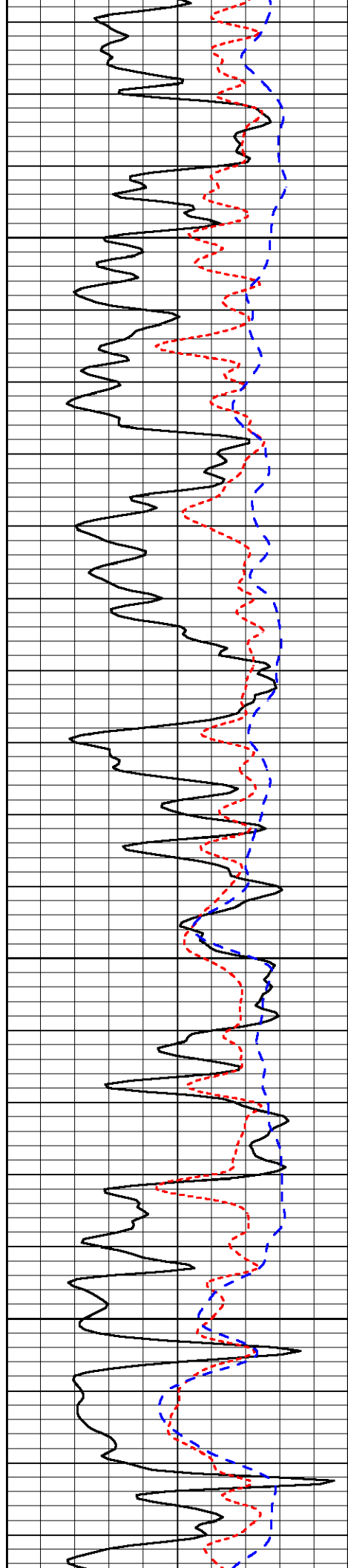
-62



2800
2850
2900
2950
3000



-61
-61
-61
-61
-55

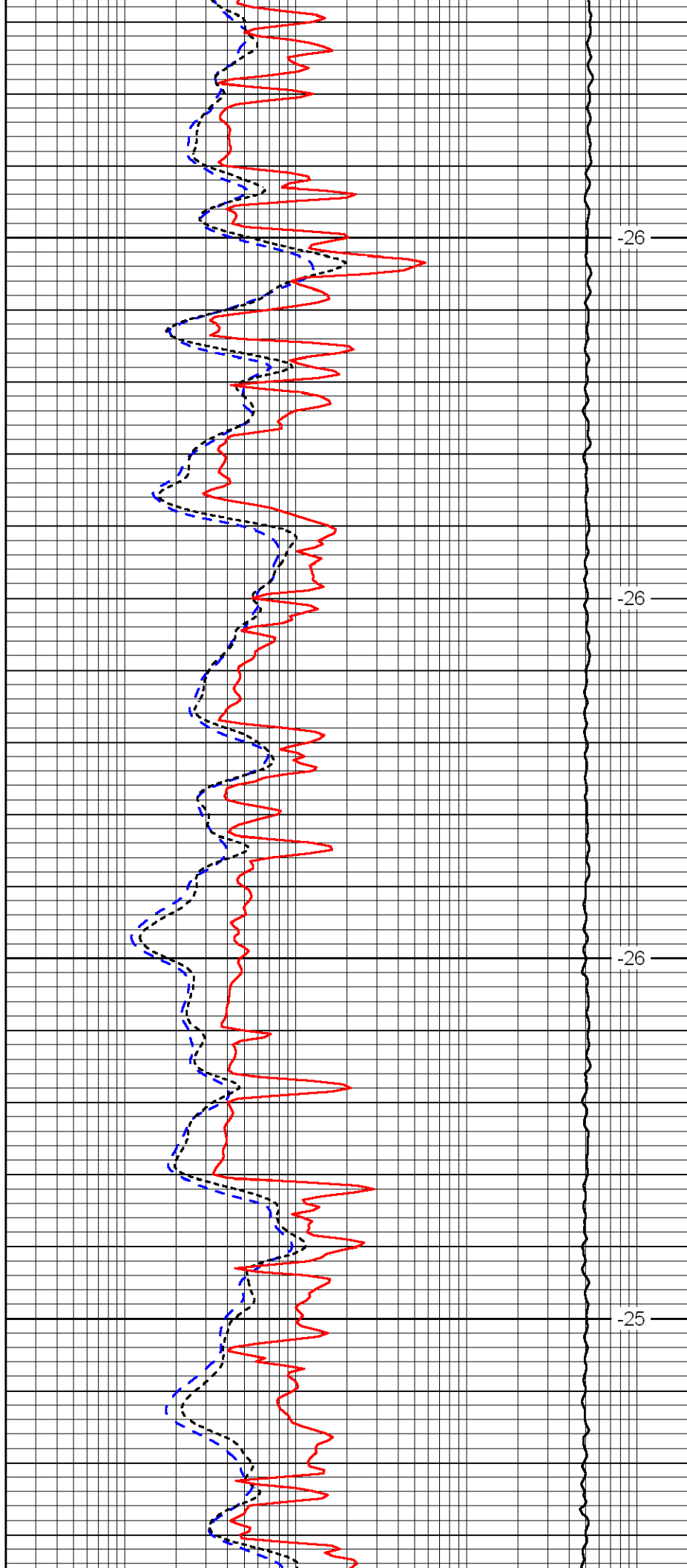


3050

3100

3150

3200

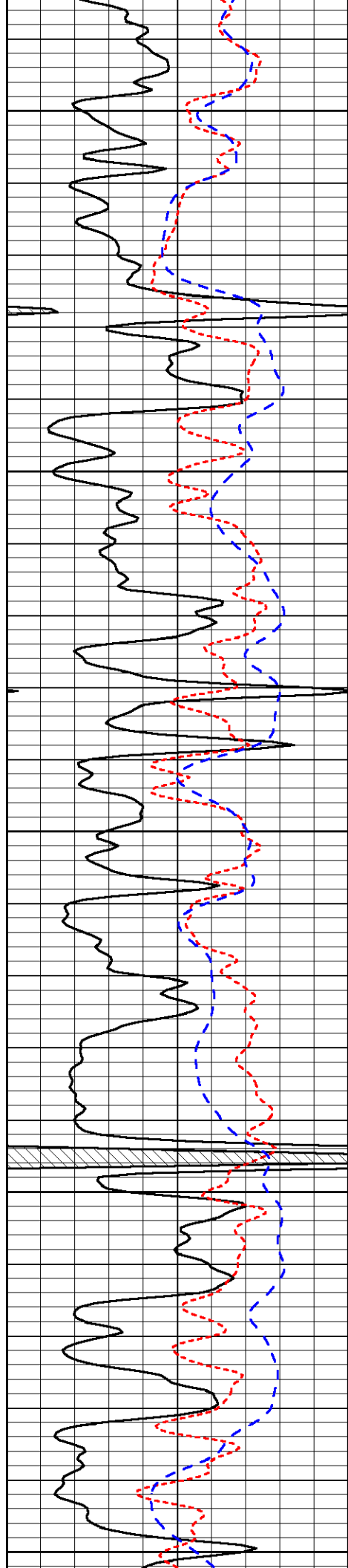


-26

-26

-26

-25



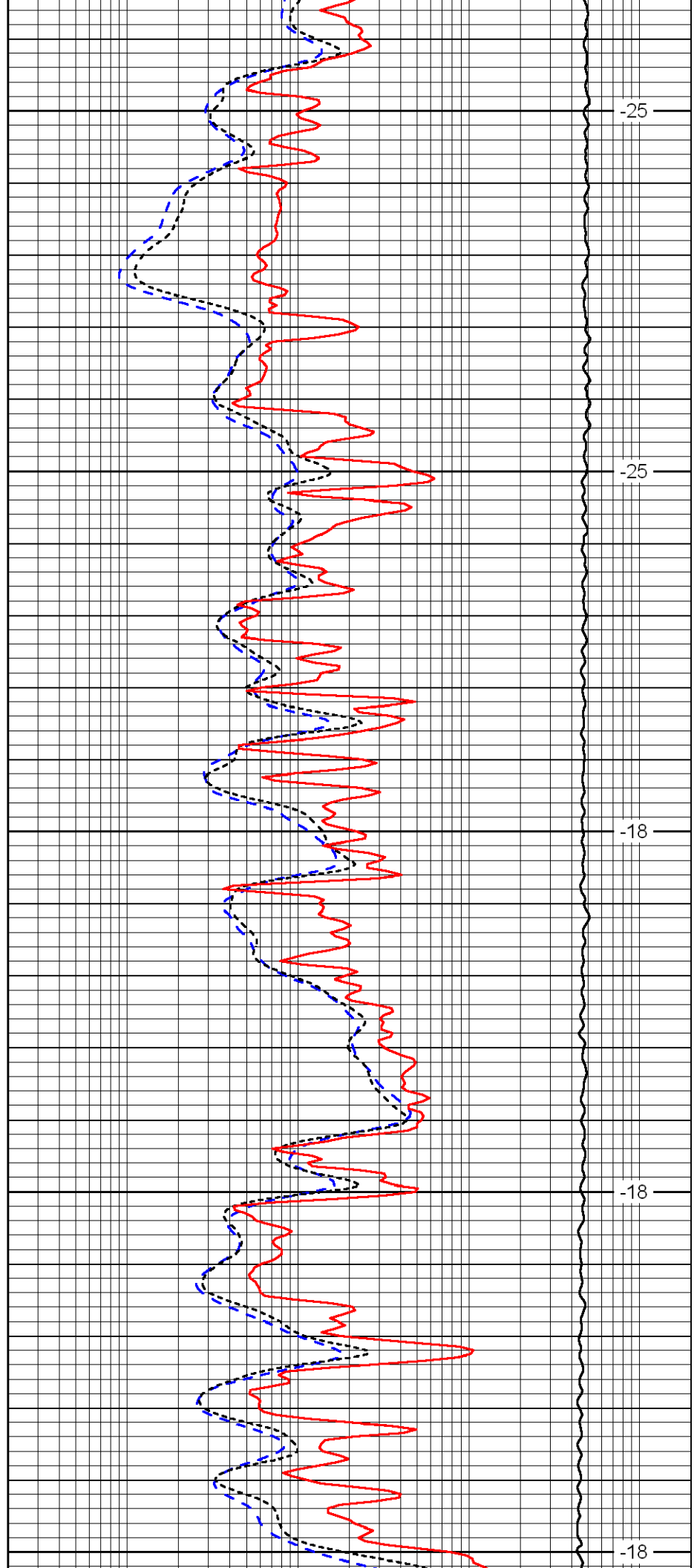
3250

3300

3350

3400

3450



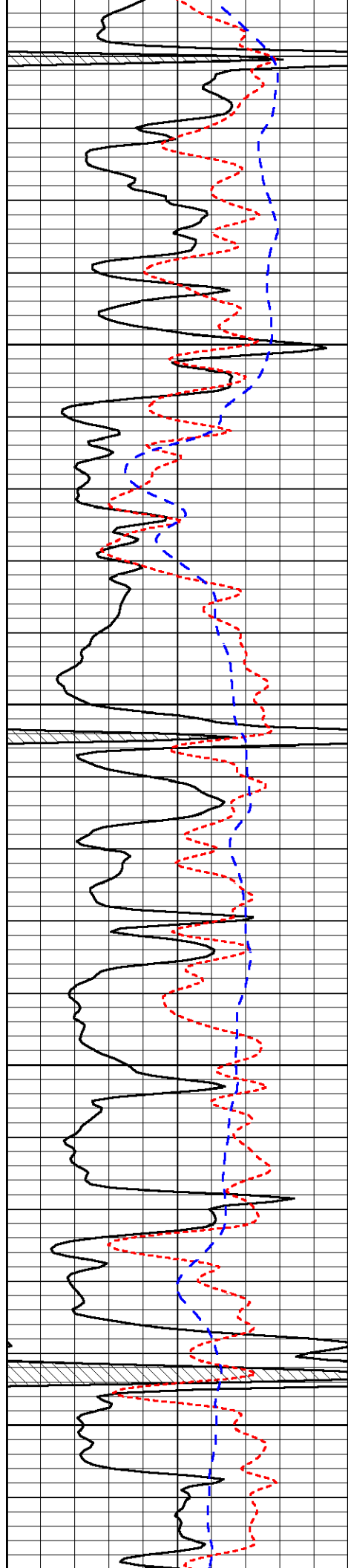
-25

-25

-18

-18

-18

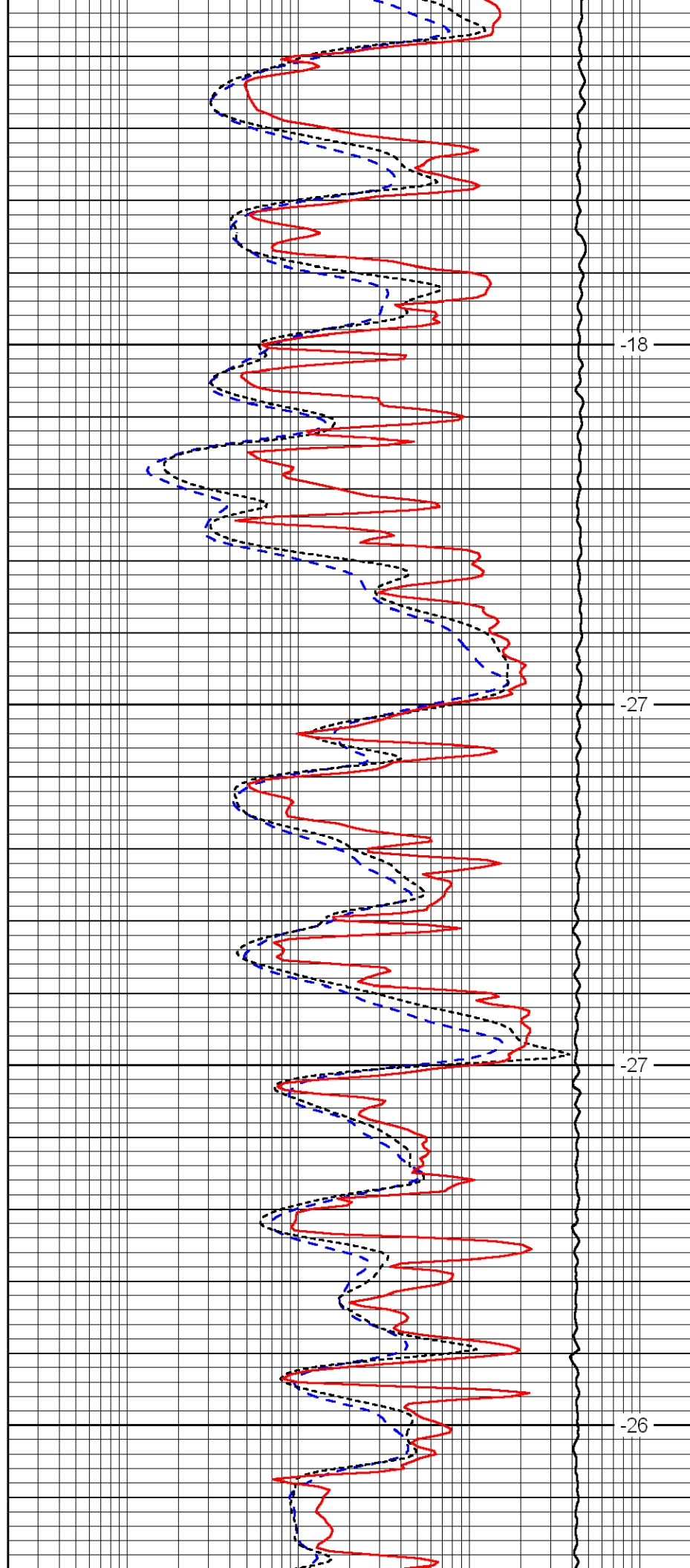


3500

3550

3600

3650

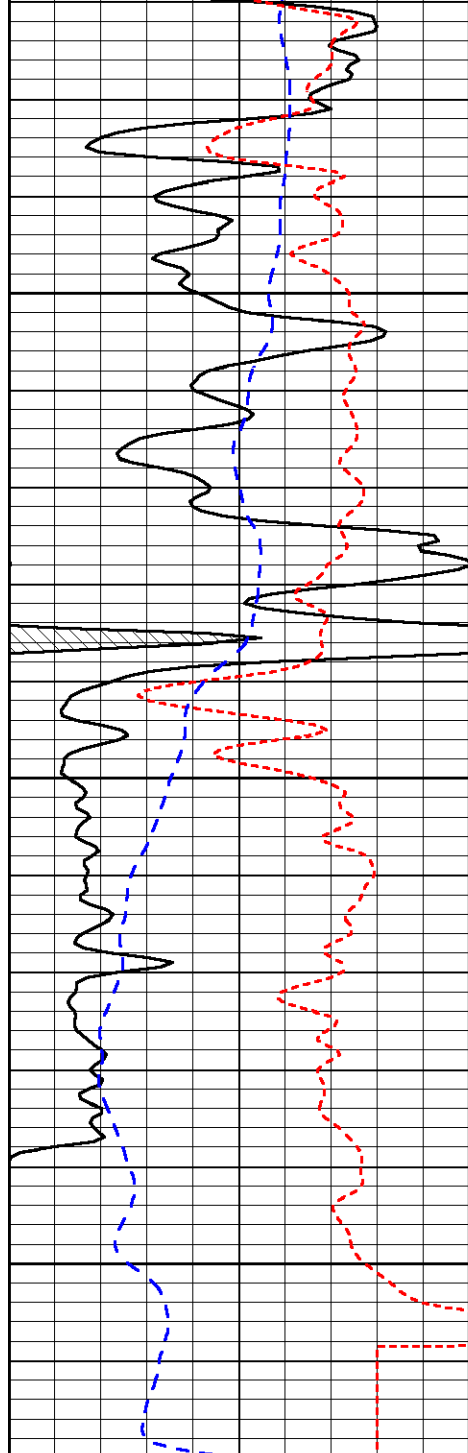


-18

-27

-27

-26

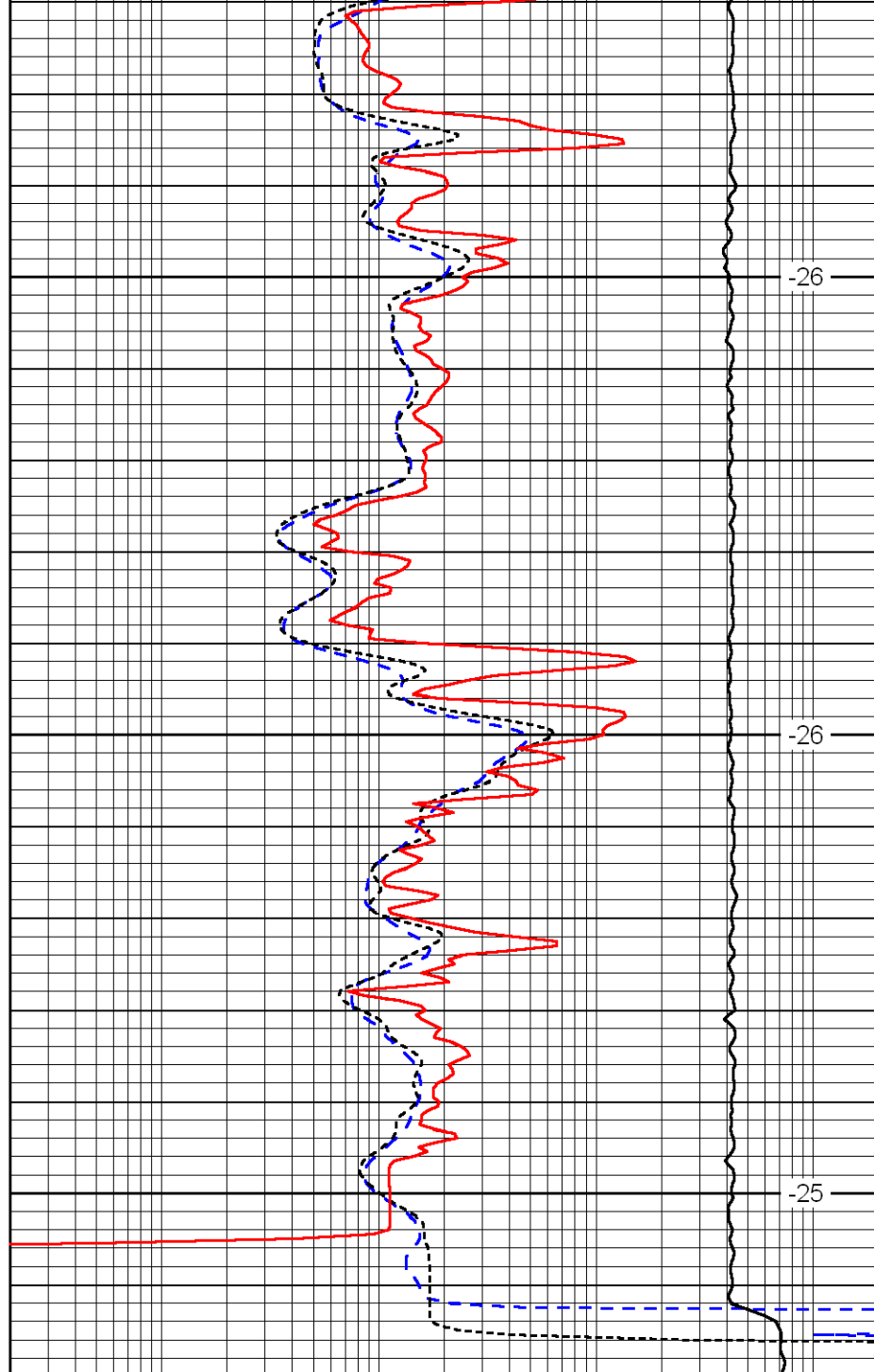


0	Gamma Ray	150
-160	RXO/RT	40
-200	SP	0

3700

3750

3800



0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
10000	Line Tension	0

LSPD