



Dual Induction Log

Pioneer Energy Services

API No.	Company Murfin Drilling Company, Inc.		
	Well Burk Trust 'A' #3-23		
	Field East Fork		
	County Rawlins	State	Kansas
15-153-20,978-00-00	Location	NW SW NW 1650' FNL & 330' FWL	
	Sec: 23	Twp: 1S	Rge: 36W
Permanent Datum	Ground Level	Elevation 3243	
Log Measured From	Kelly Bushing	11 Ft. Above Perm. Datum	
Drilling Measured From	Kelly Bushing	K.B. 3254 D.F. 3243 G.L. 3243	
Date	1/22/2014		
Run Number	One		
Depth Driller	4550		
Depth Logger	4552		
Bottom Logged Interval	4551		
Top Log Interval	00		
Casing Driller	8.625 @ 264		
Casing Logger	265		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	500		
Density / Viscosity	9.2 58		
pH / Fluid Loss	10.5 5.8		
Source of Sample	Flowline		
Rm @ Meas. Temp	0.60 @ 57		
Rmf @ Meas. Temp	0.45 @ 57		
Rmc @ Meas. Temp	0.81 @ 57		
Source of Rmf / Rmc	Charts		
Rm @ BHT	0.28 @ 122		
Operating Rig Time	5 Hours		
Max Rec. Temp. F	122		
Equipment Number	15		
Location	Hays		
Recorded By	D. Kerr		
Witnessed By	Wes Hansen		

<<< Fold Here >>>

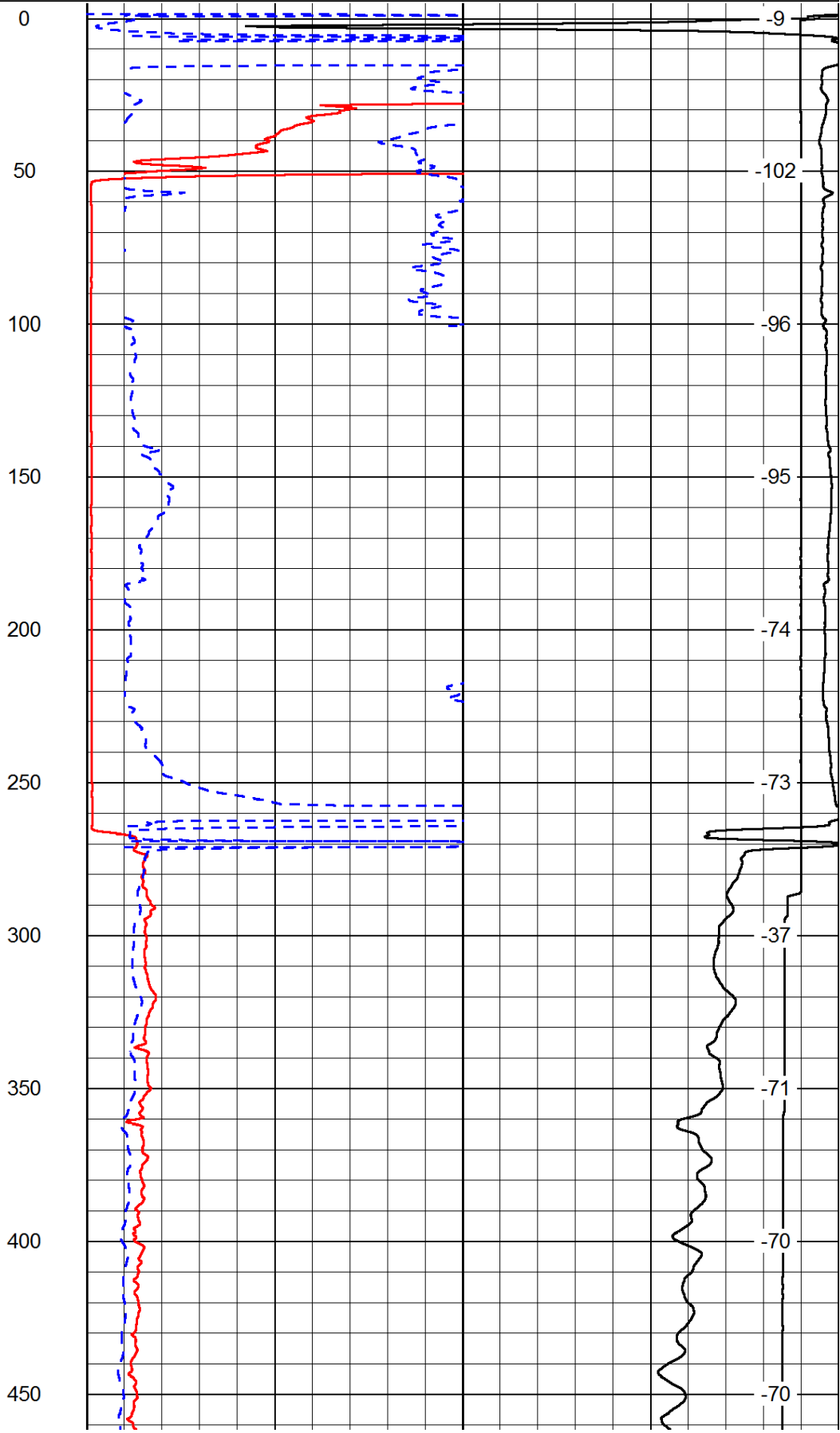
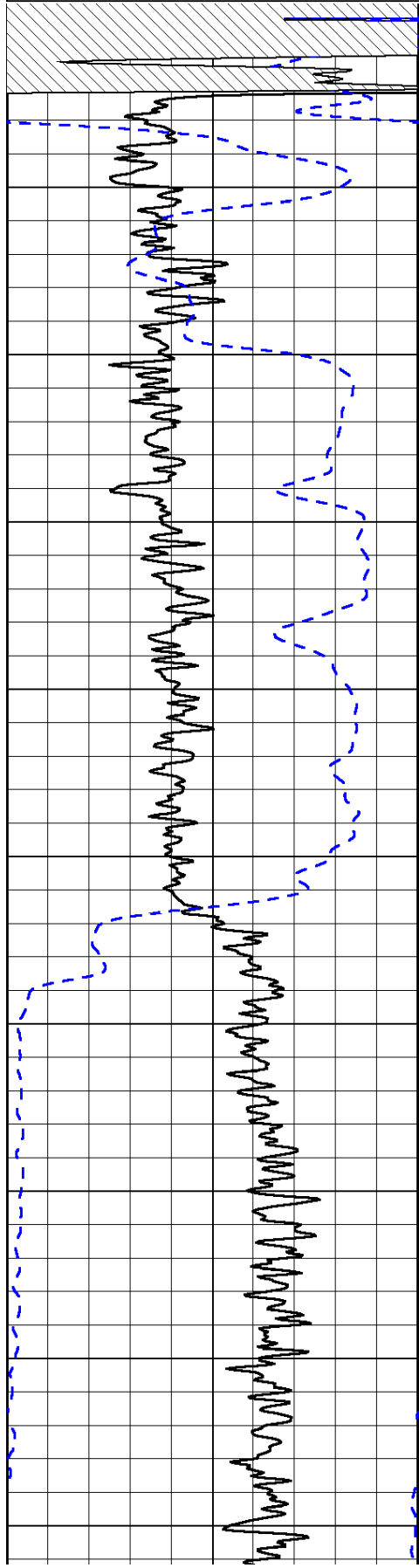
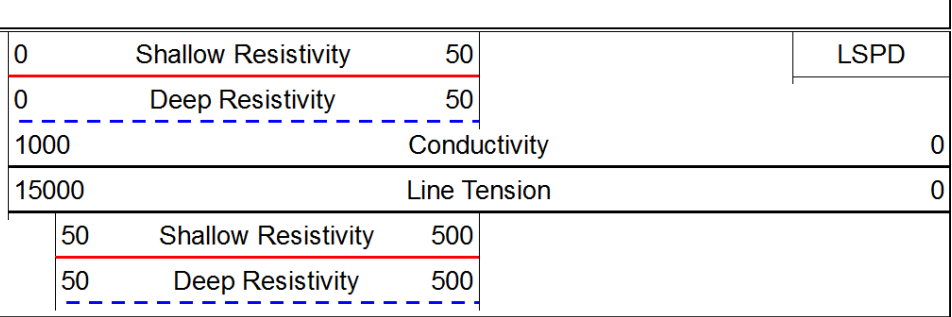
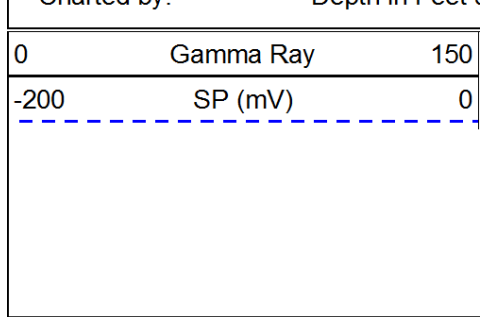
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

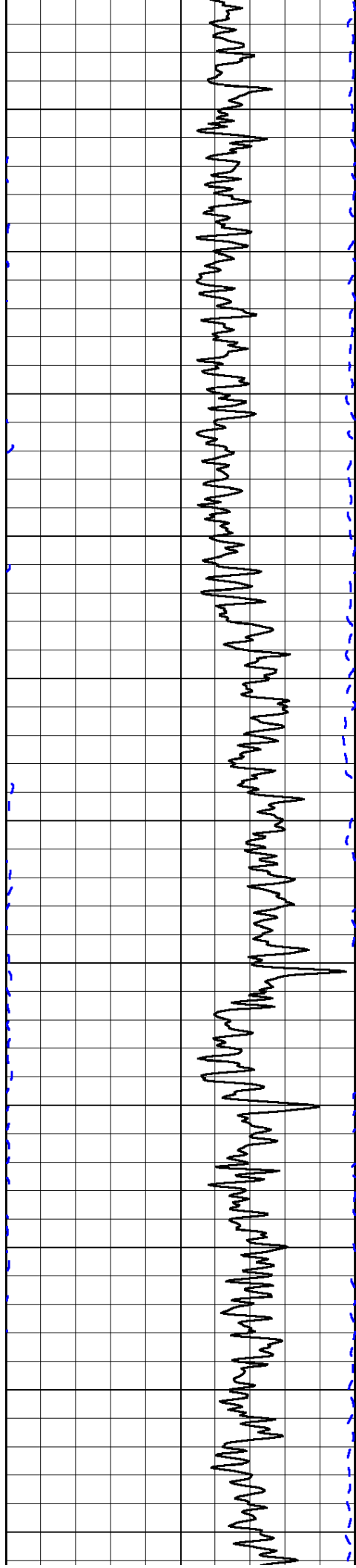
Comments

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

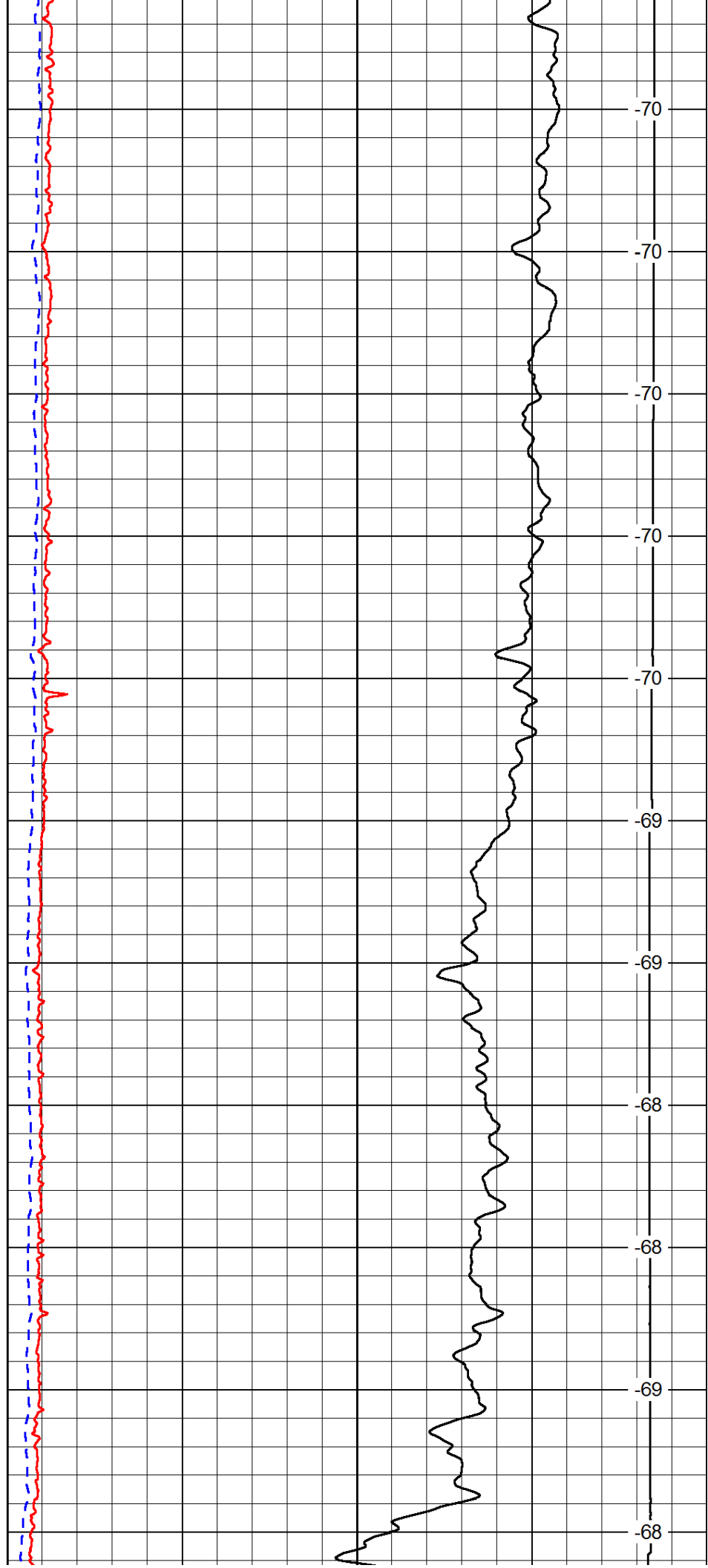
Beardsley KS, North to AA RD,
West to 5 1/2 RD, 1/2 North, West Into

Database File: c:\warrior\data\murfin_burk trust 'a' #3-23\murfin_burktrust_a_3_23hd.db
Dataset Pathname: DIL\murfstk
Presentation Format: dil2in
Dataset Creation: Wed Jan 22 02:22:26 2014
Charted by: Depth in Feet scaled 1:600

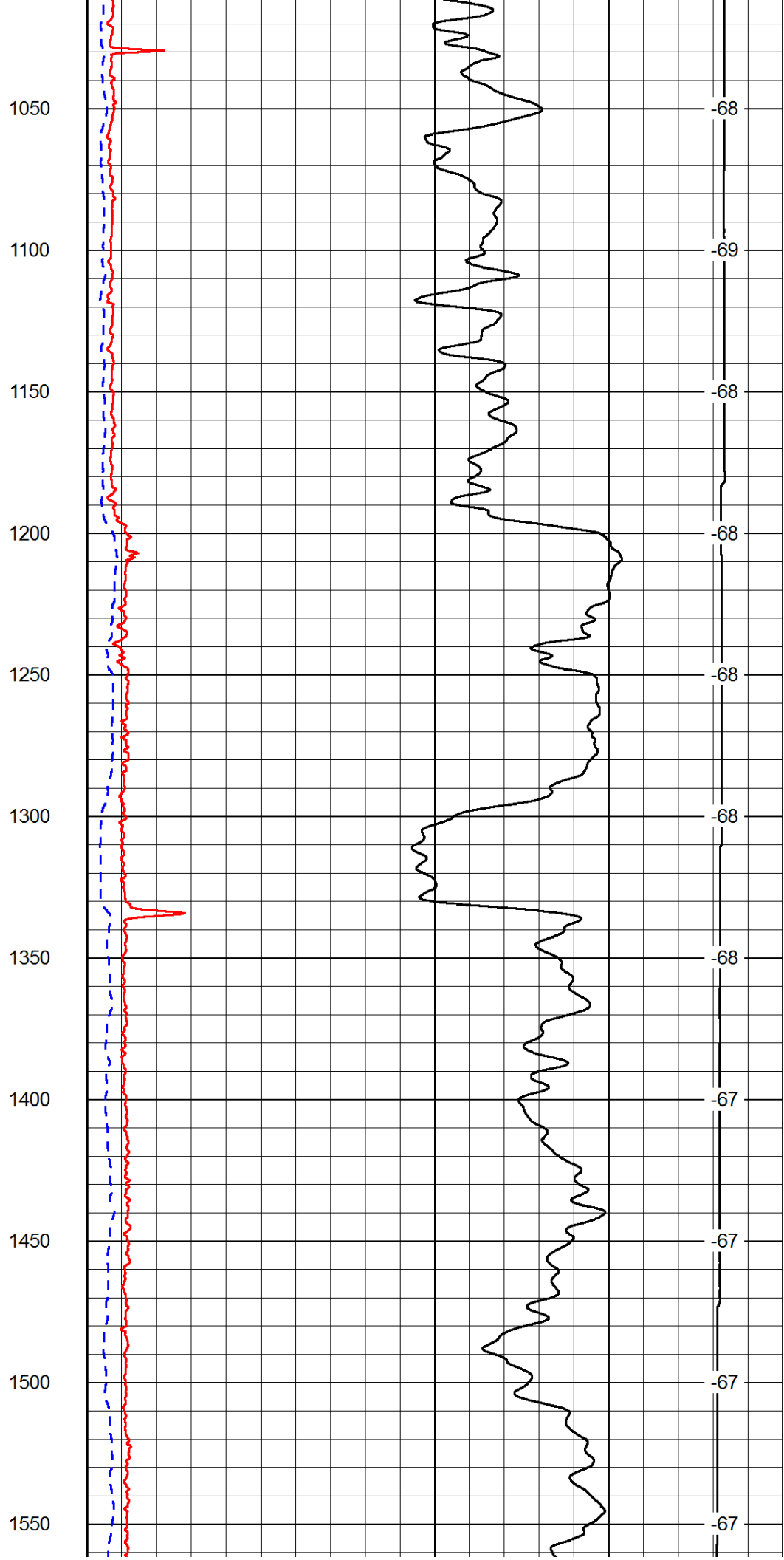
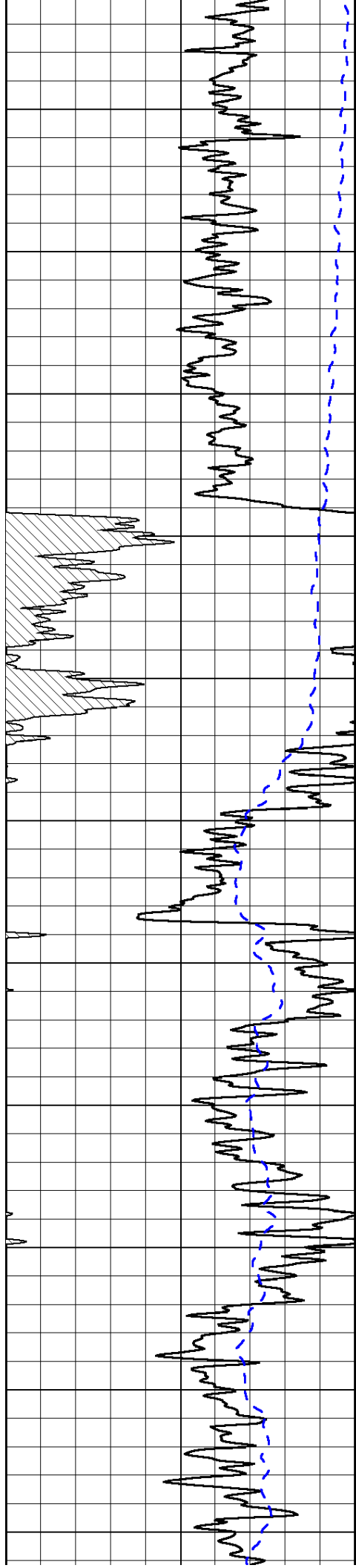


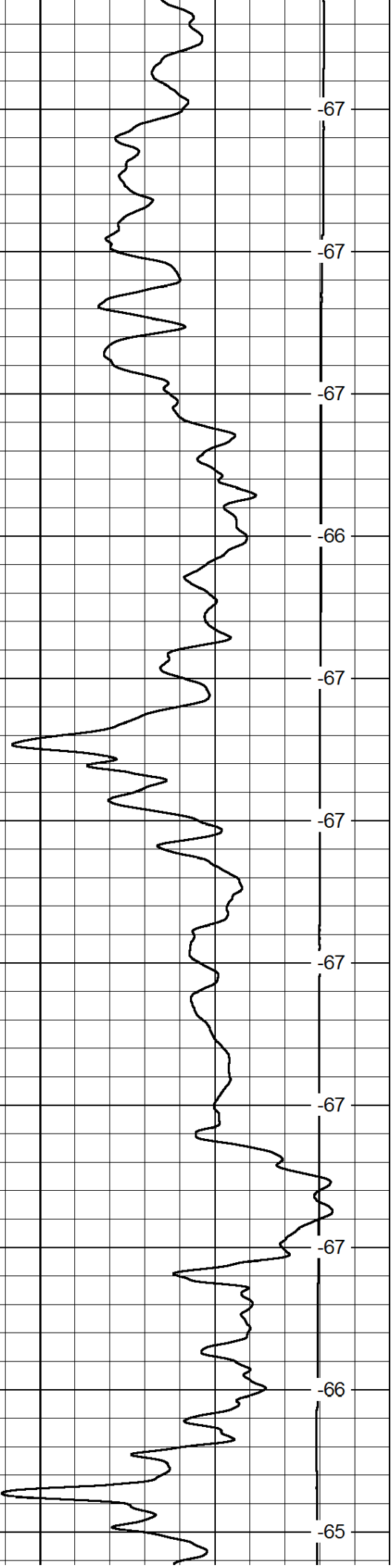
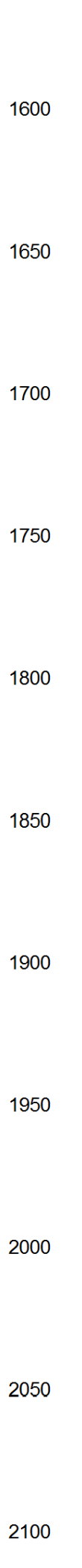
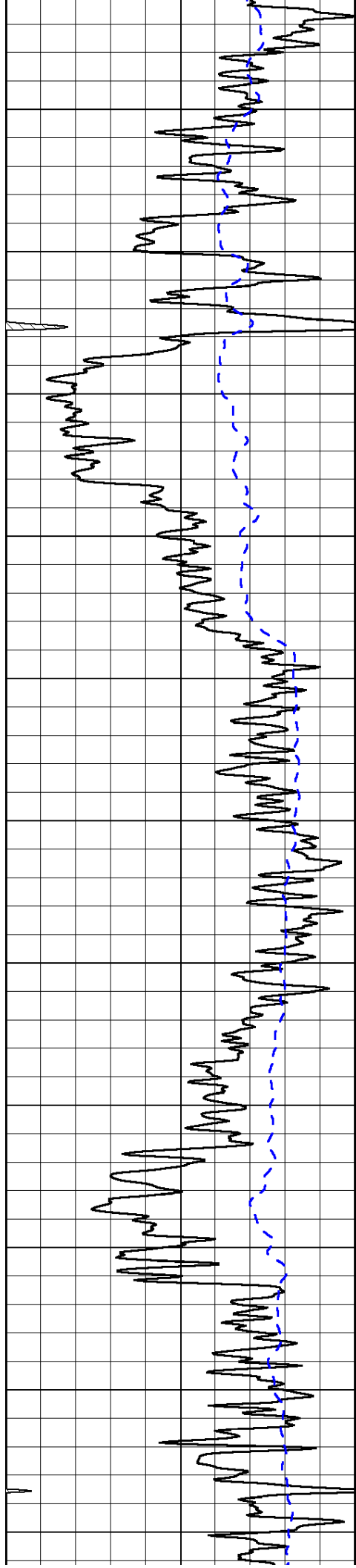


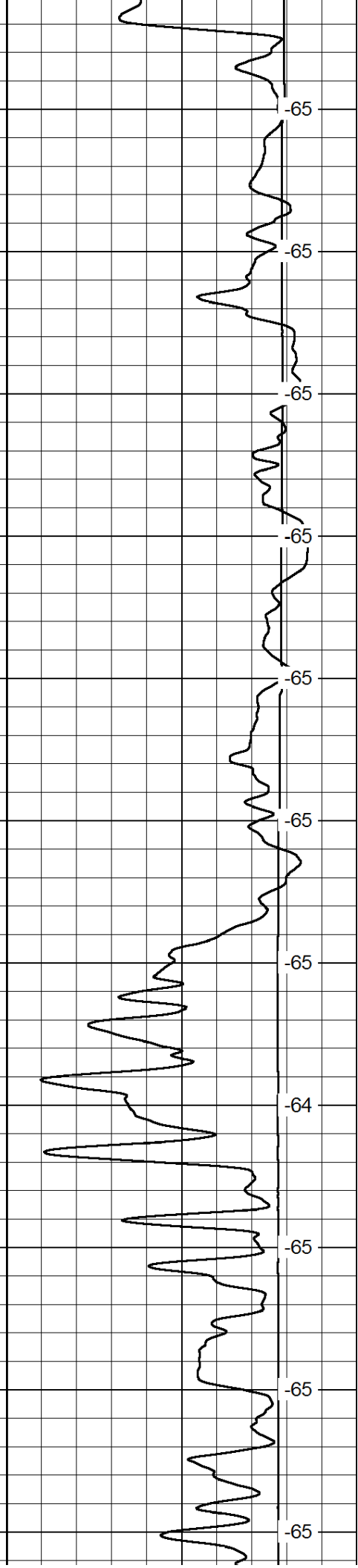
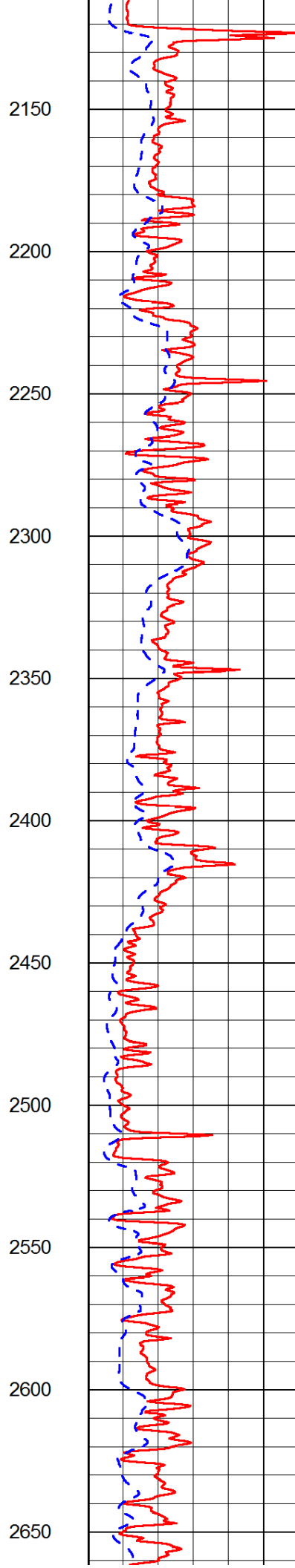
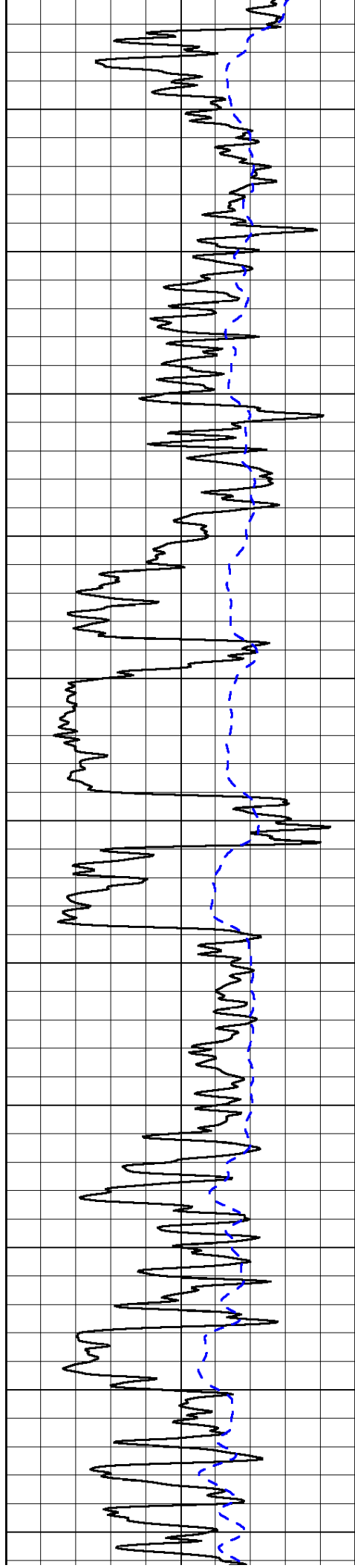
500
550
600
650
700
750
800
850
900
950
1000

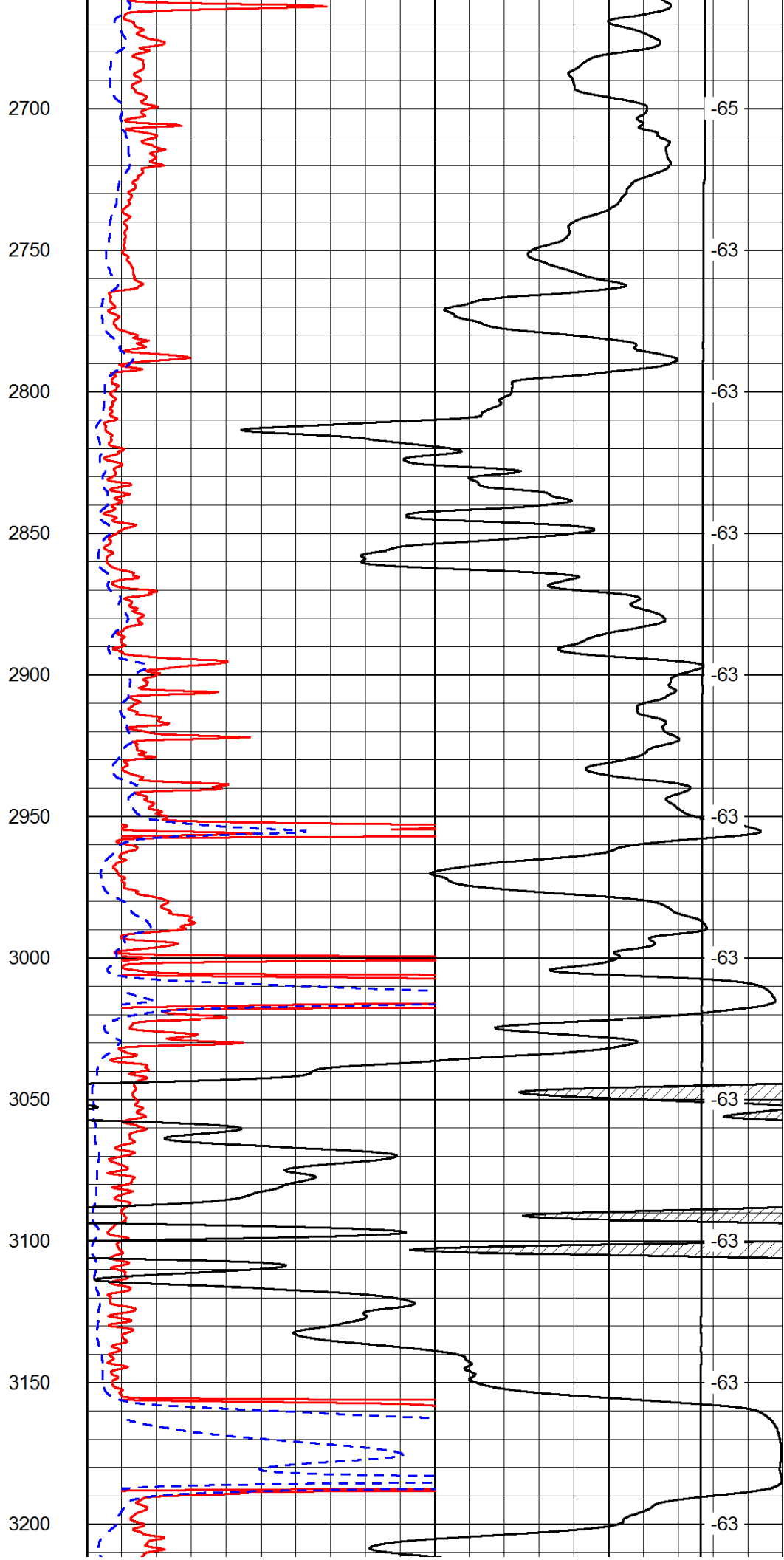
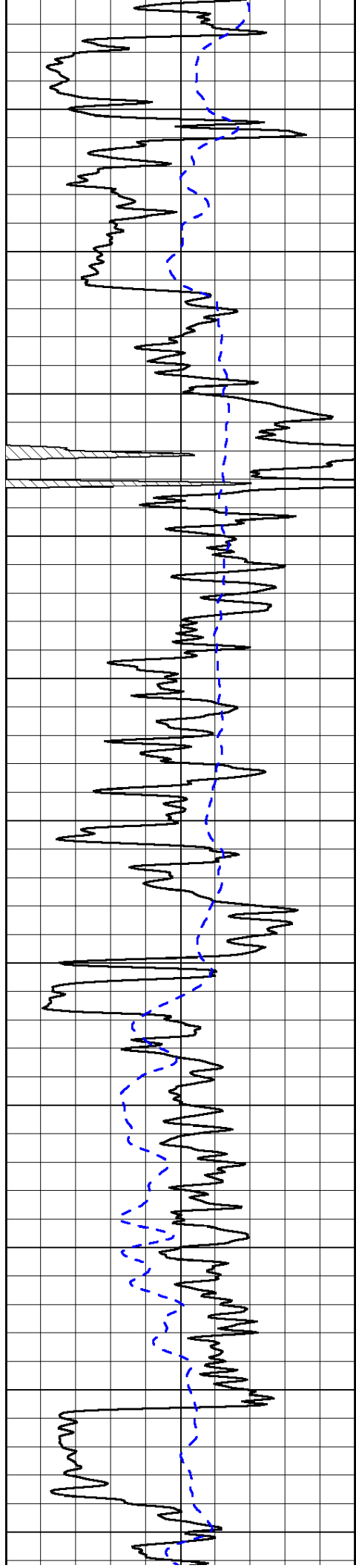


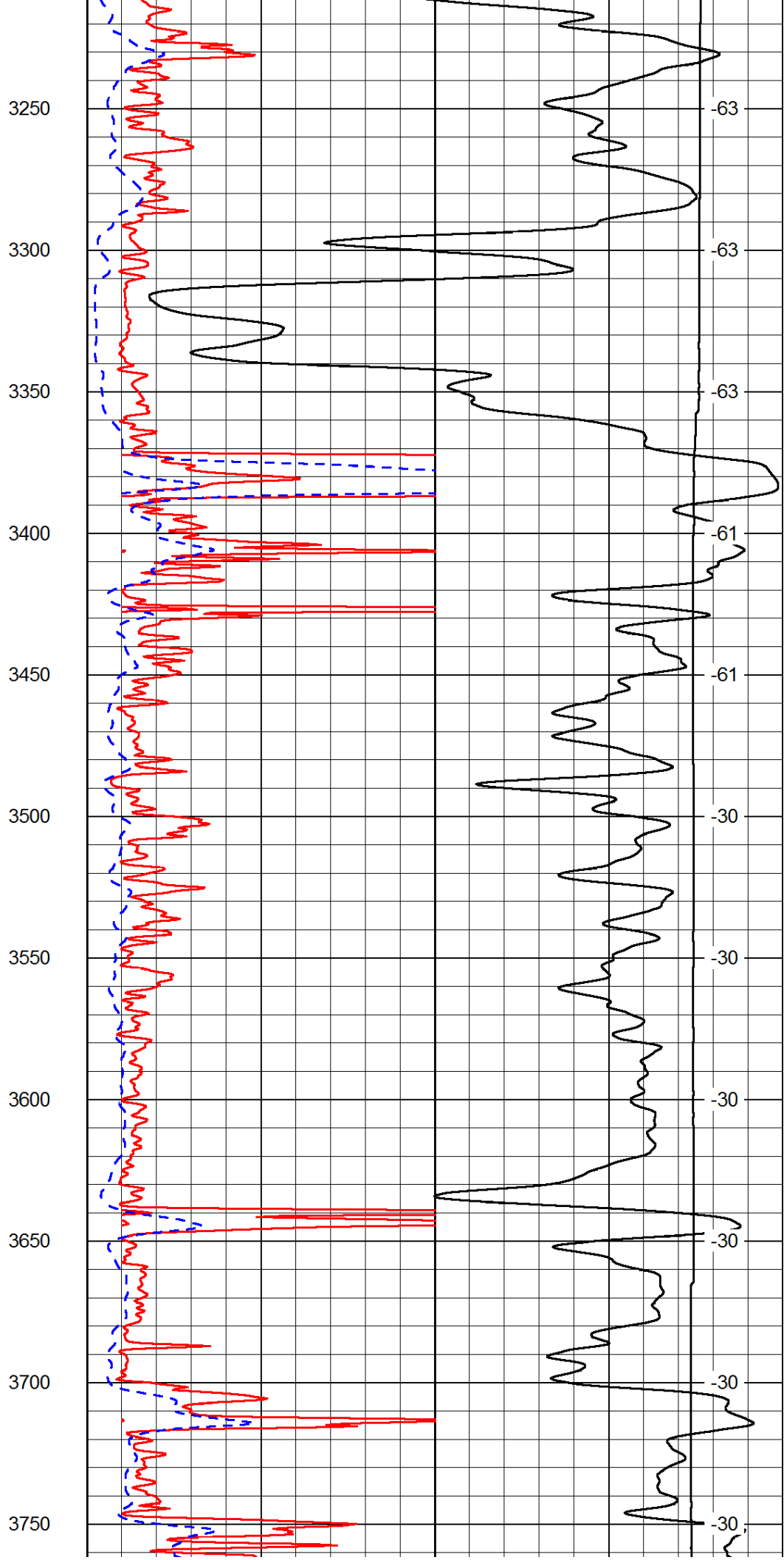
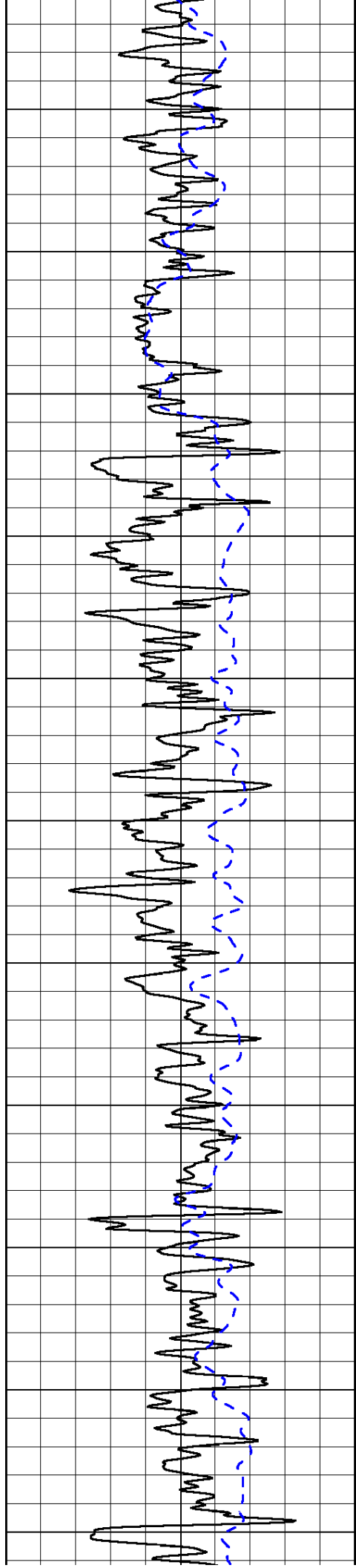
-70
-70
-70
-70
-70
-69
-69
-68
-68
-69
-68

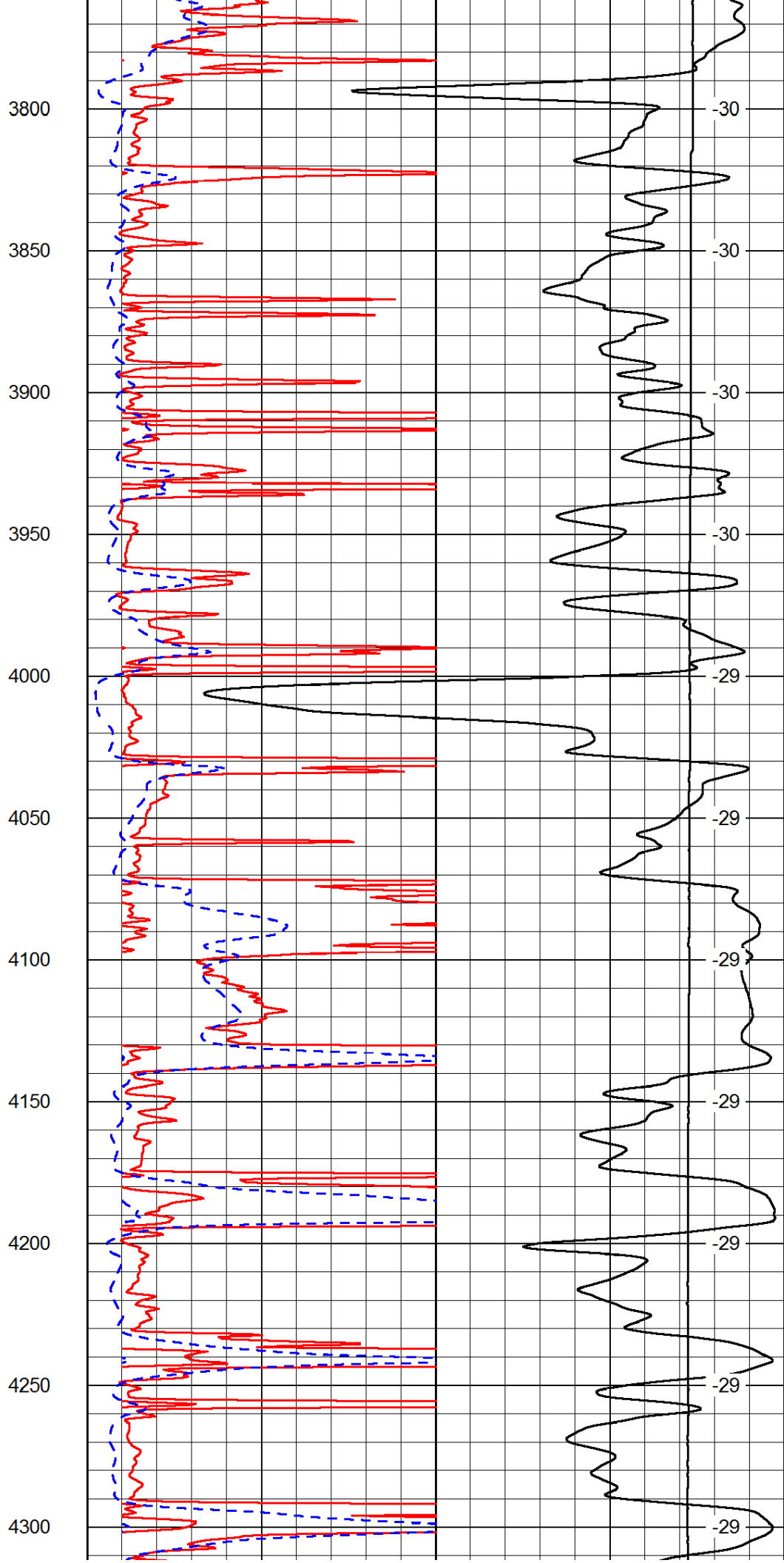
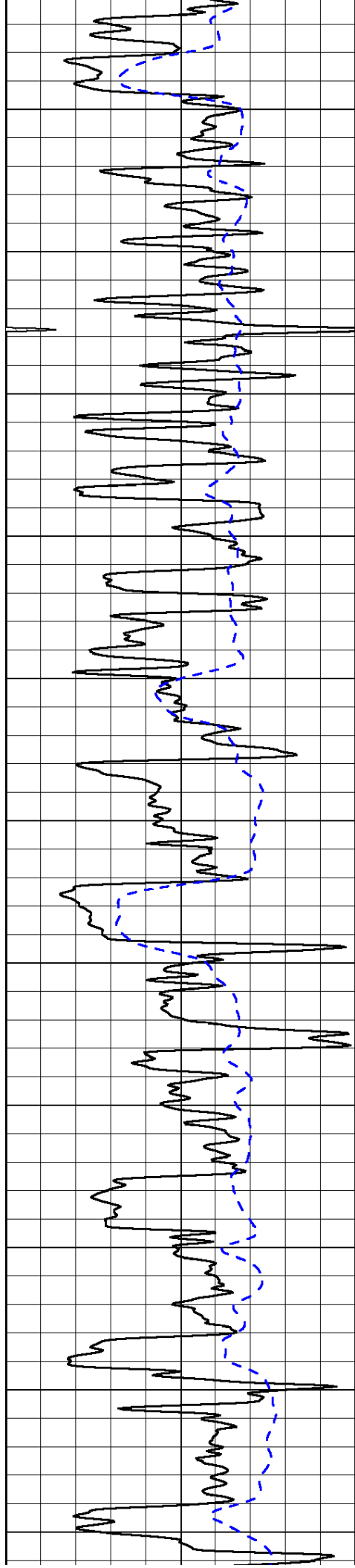


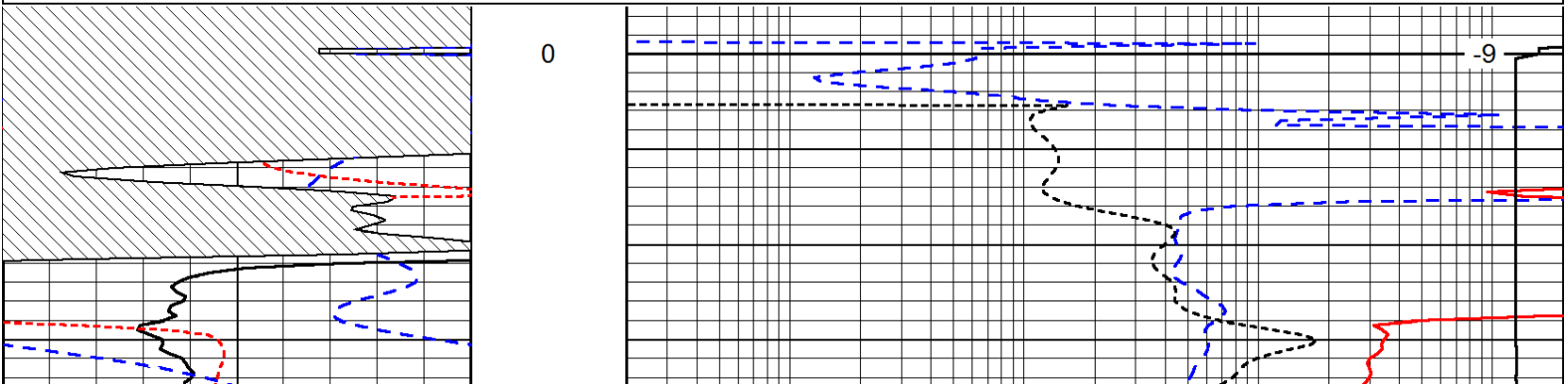
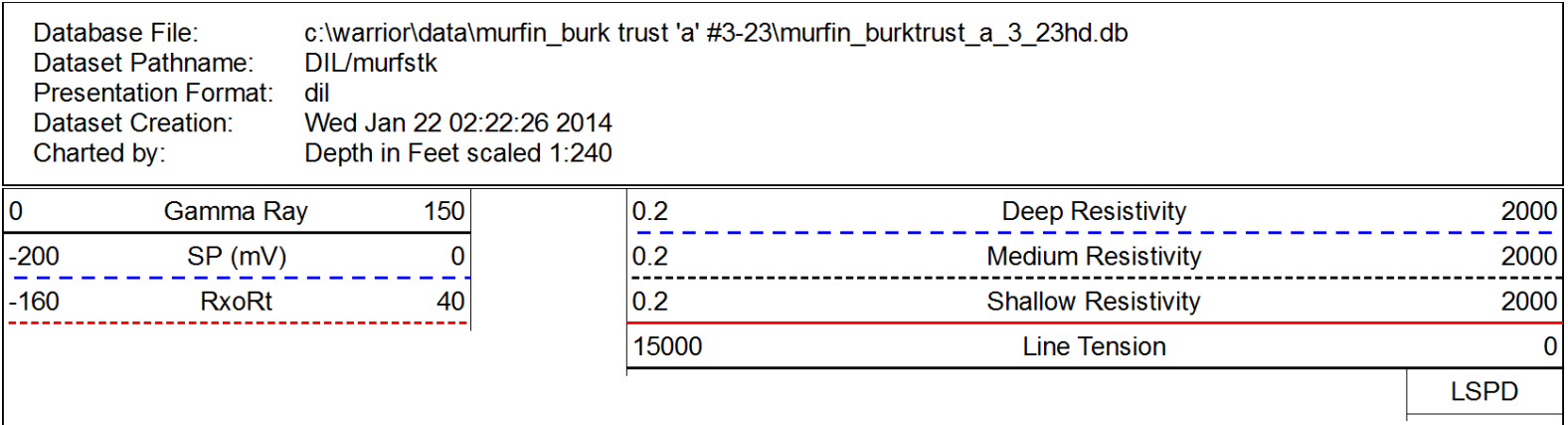
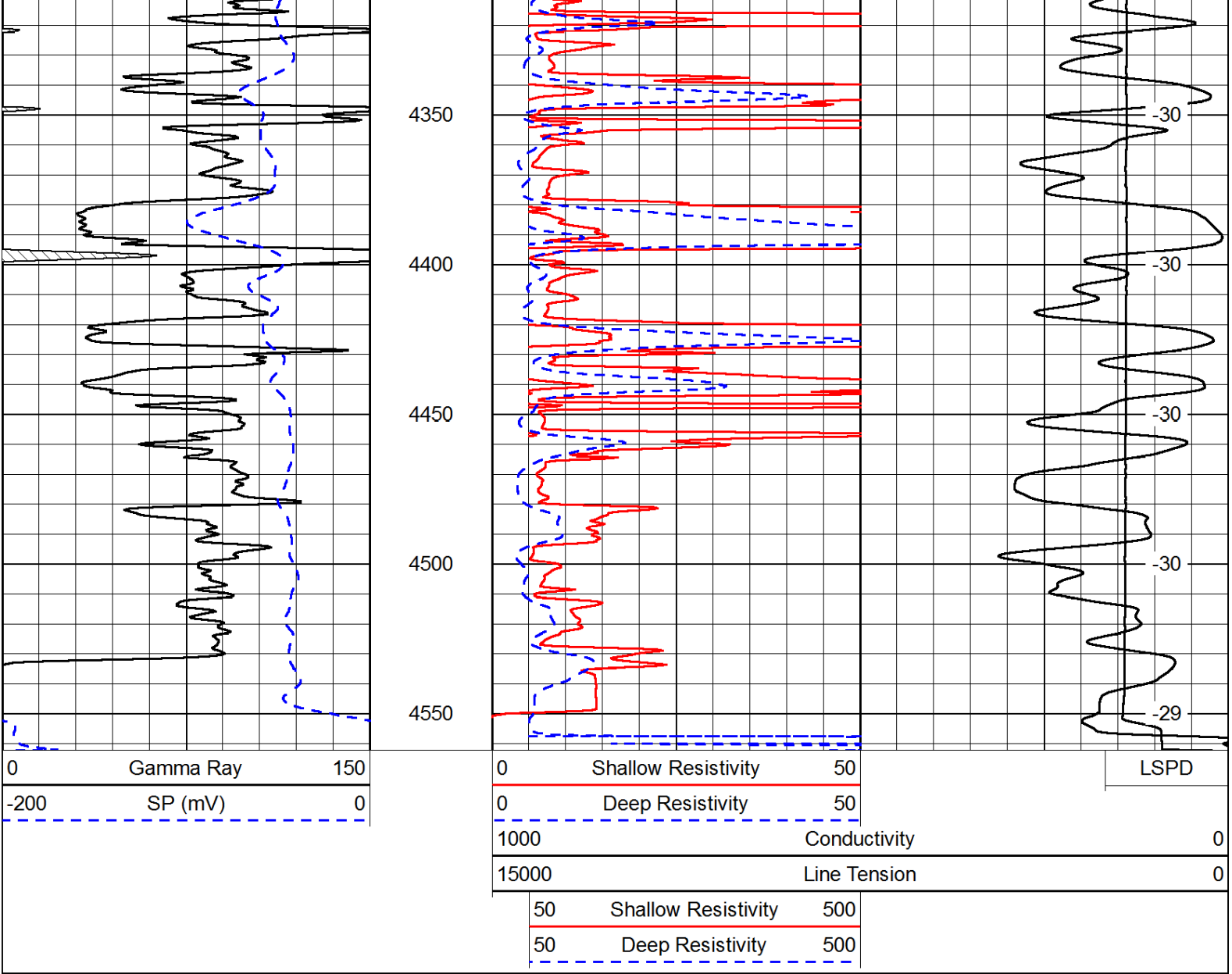


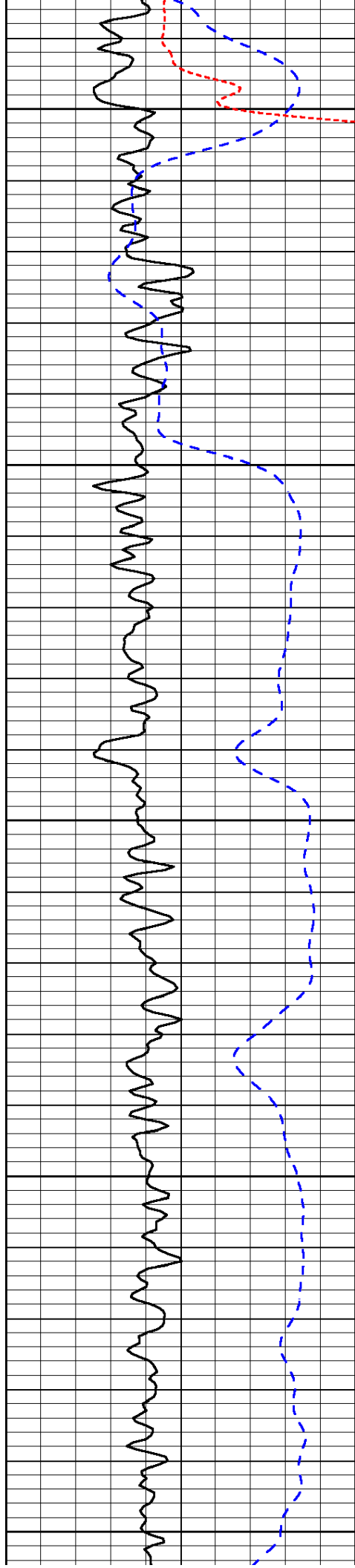












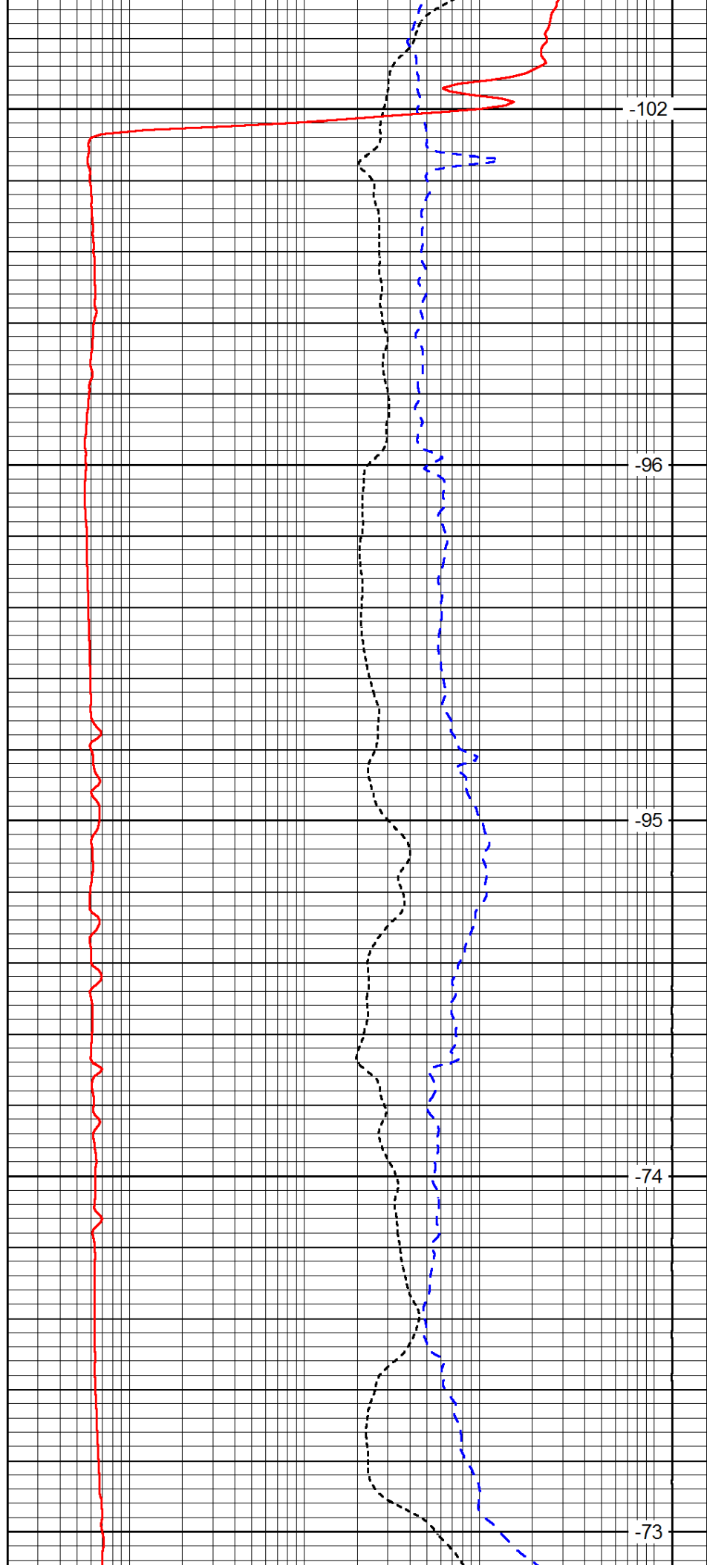
50

100

150

200

250



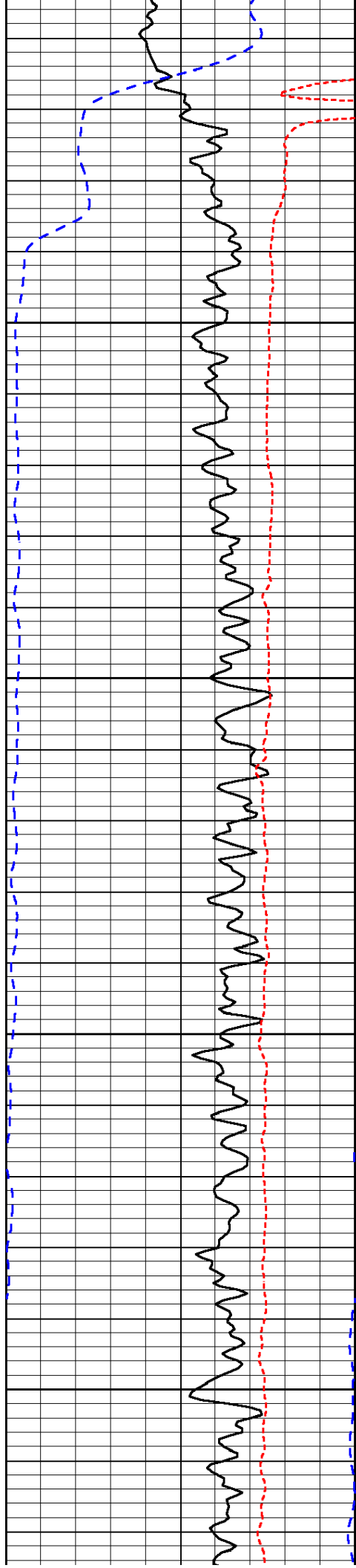
-102

-96

-95

-74

-73

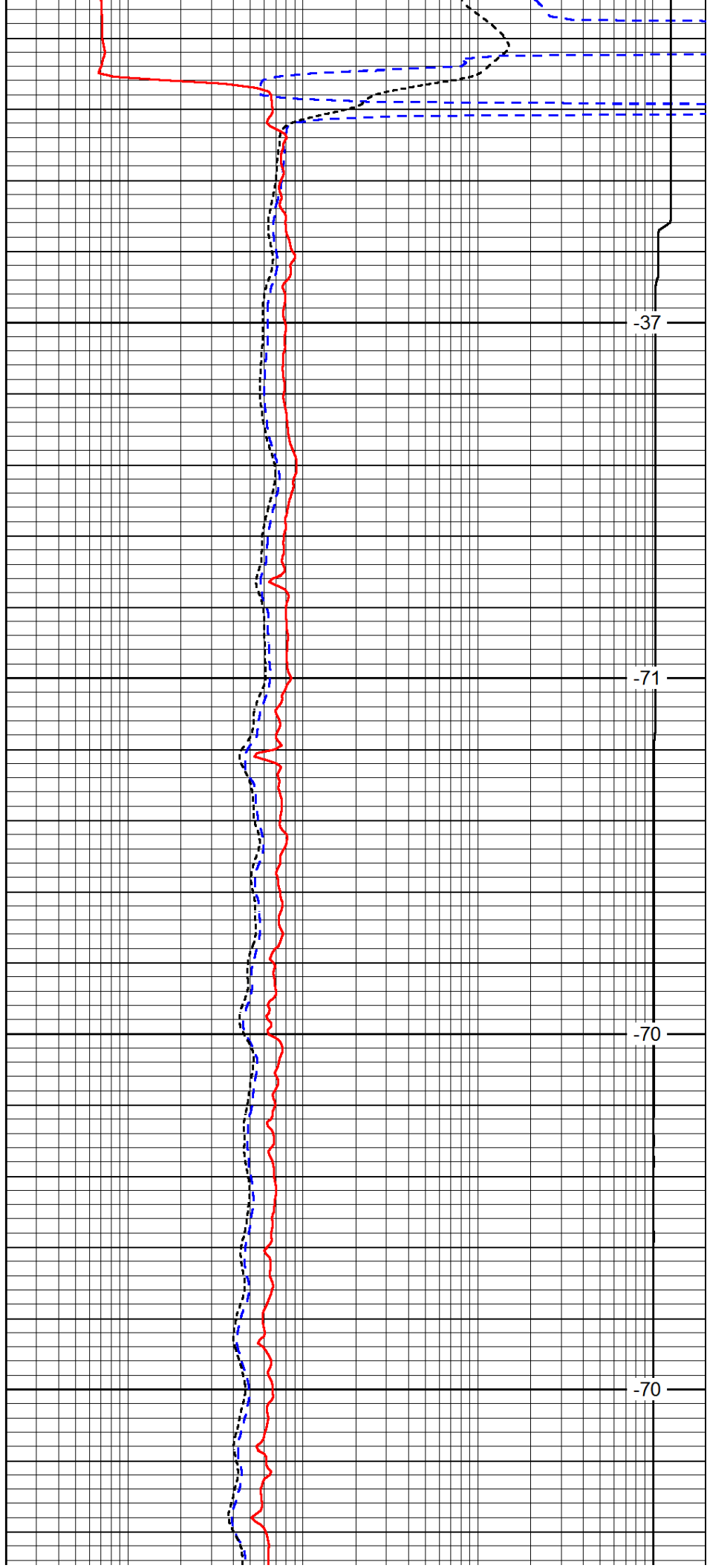


300

350

400

450

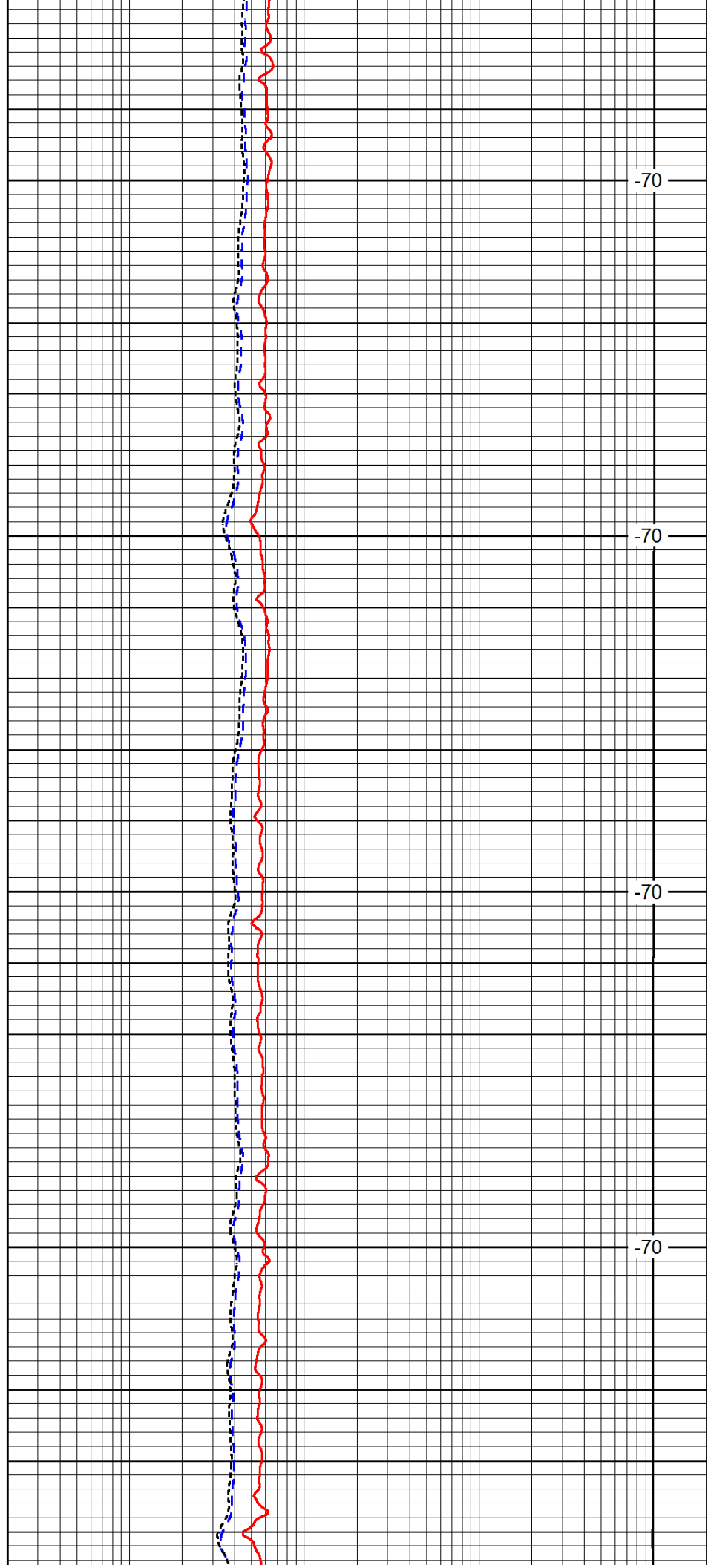
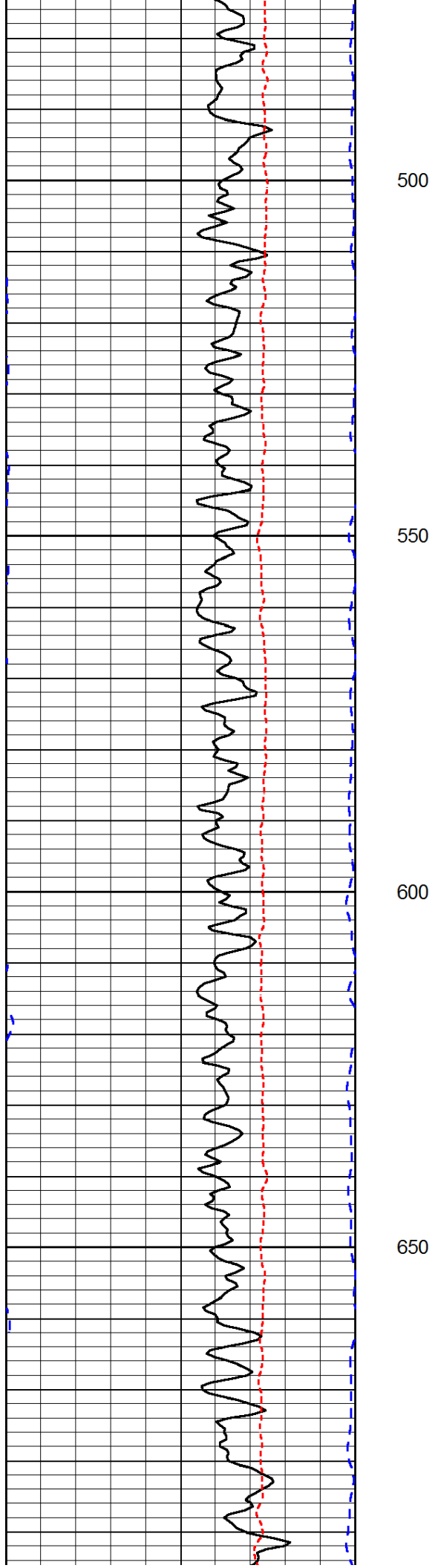


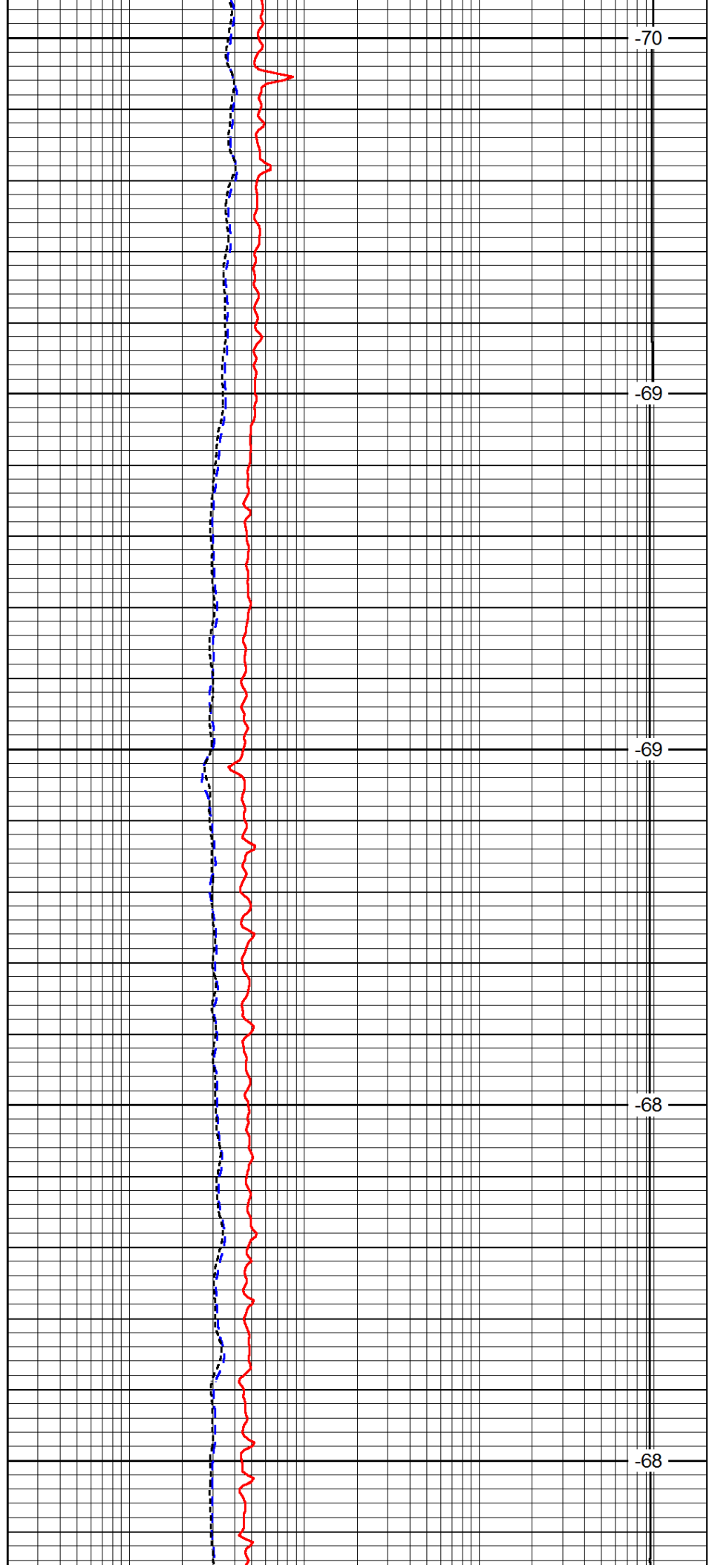
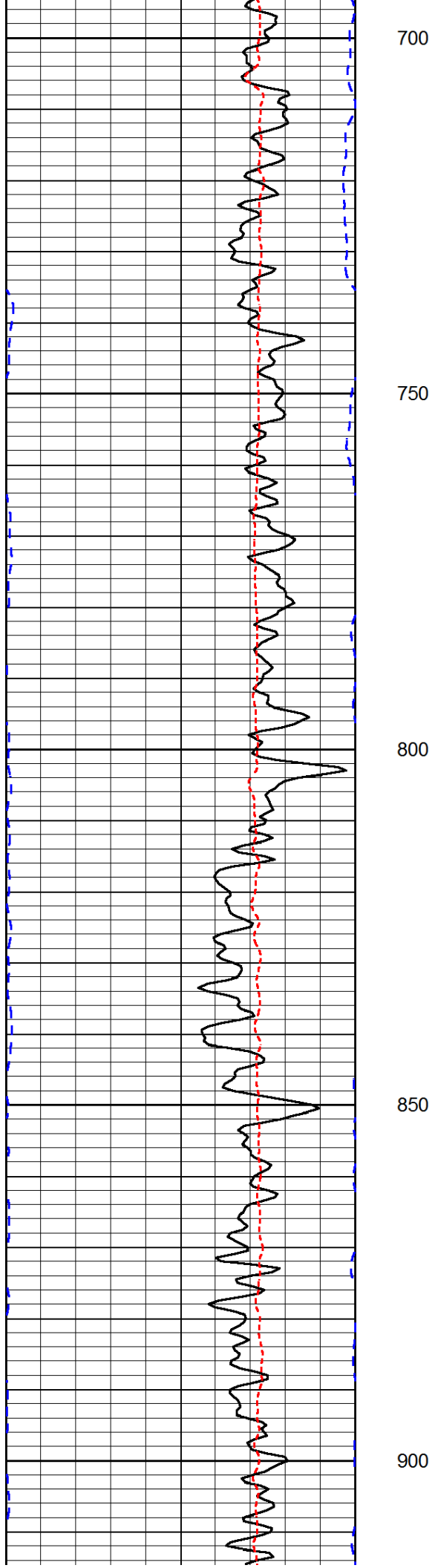
-37

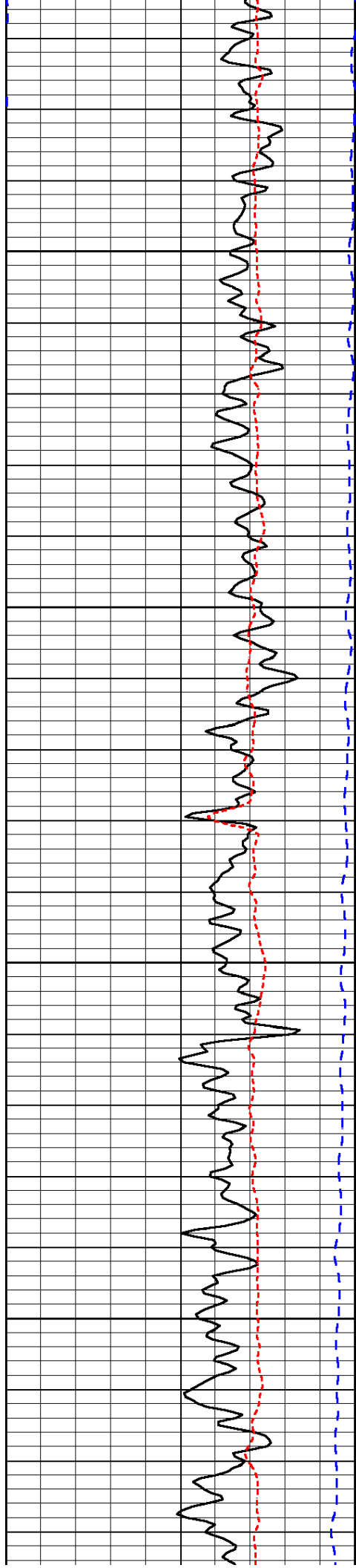
-71

-70

-70





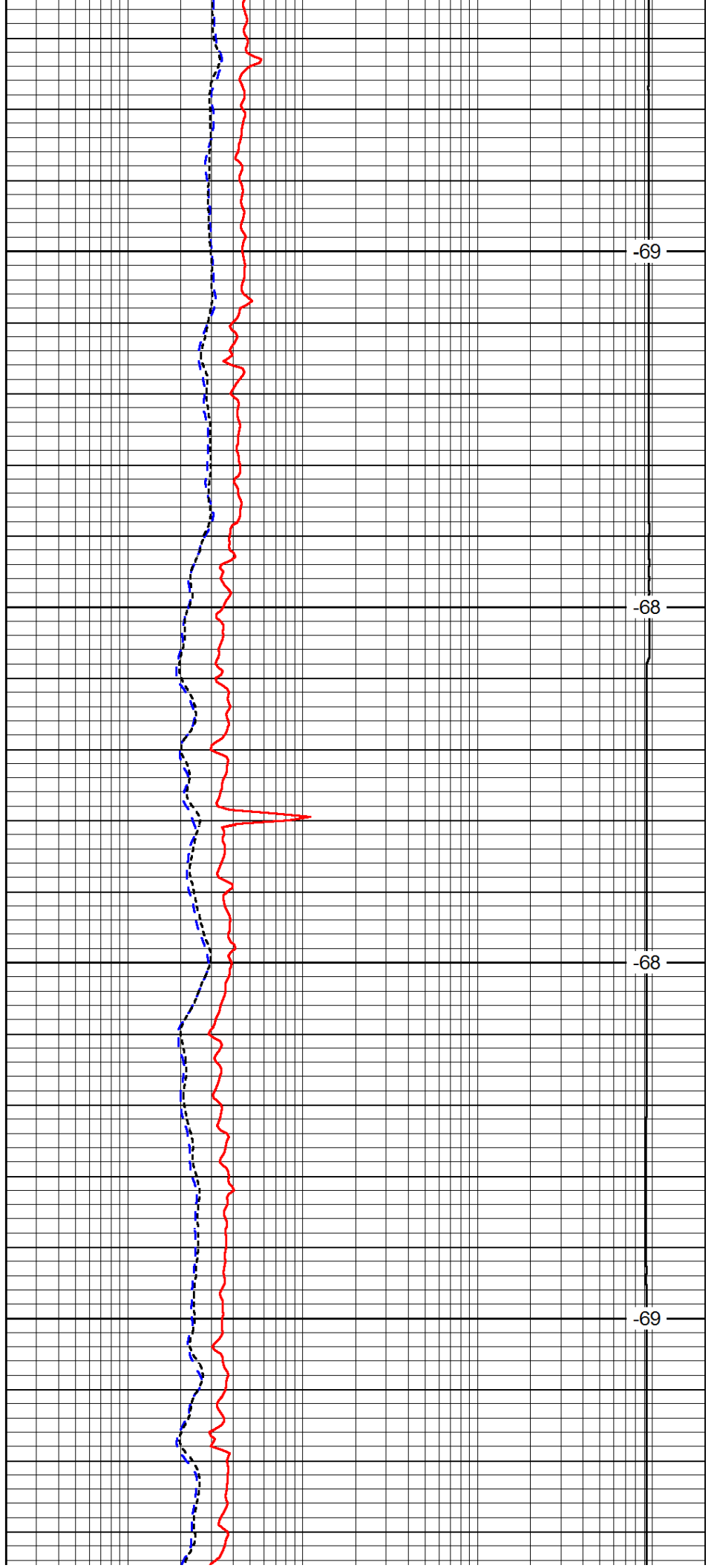


950

1000

1050

1100

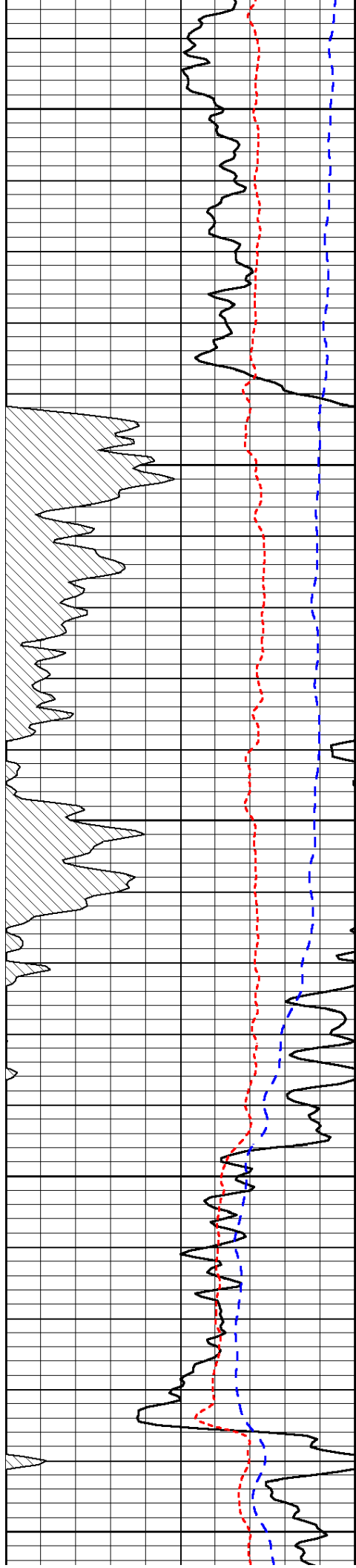


-69

-68

-68

-69



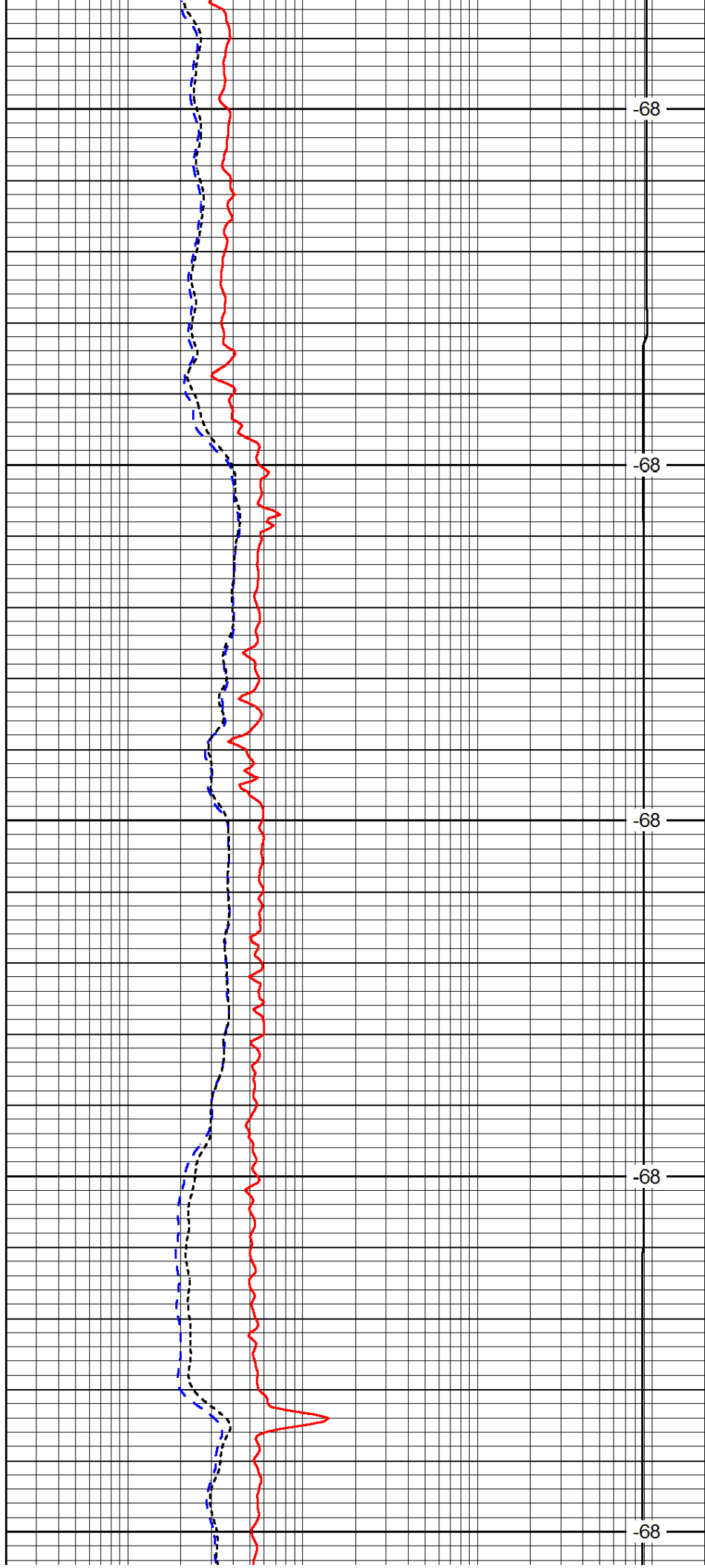
1150

1200

1250

1300

1350



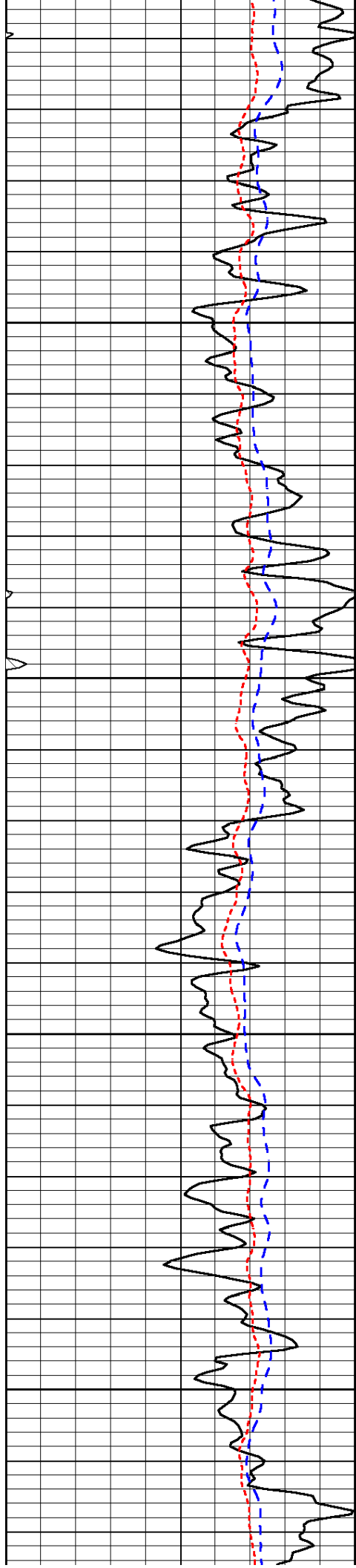
-68

-68

-68

-68

-68

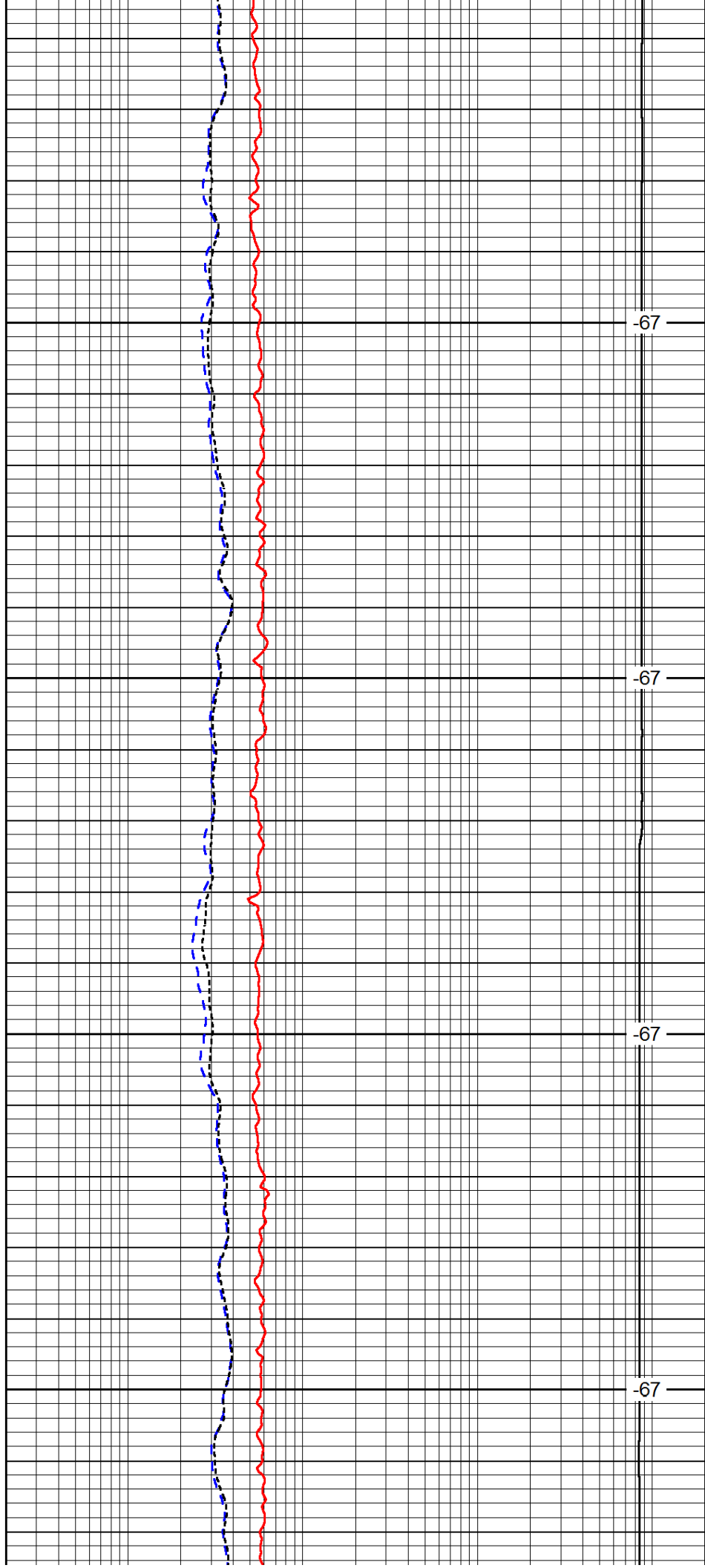


1400

1450

1500

1550

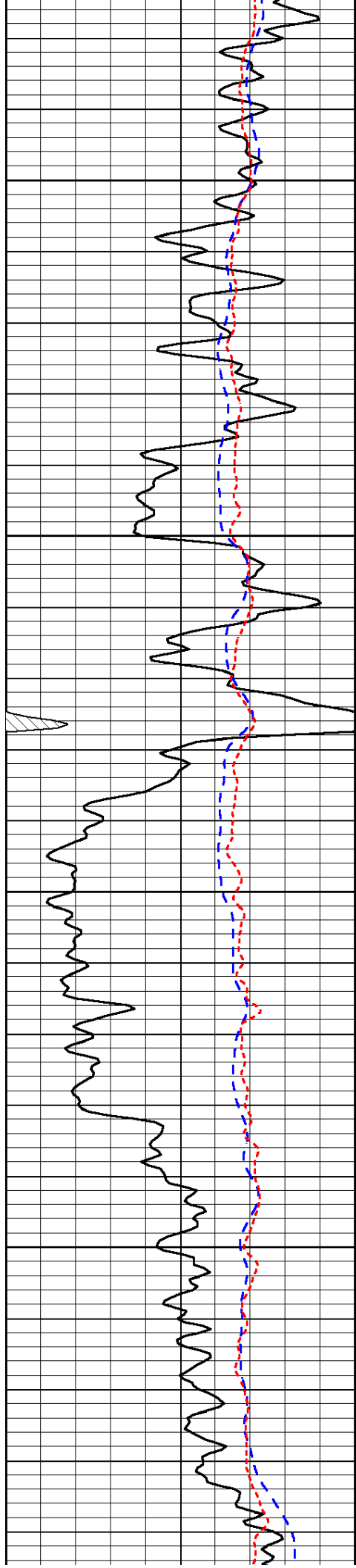


-67

-67

-67

-67

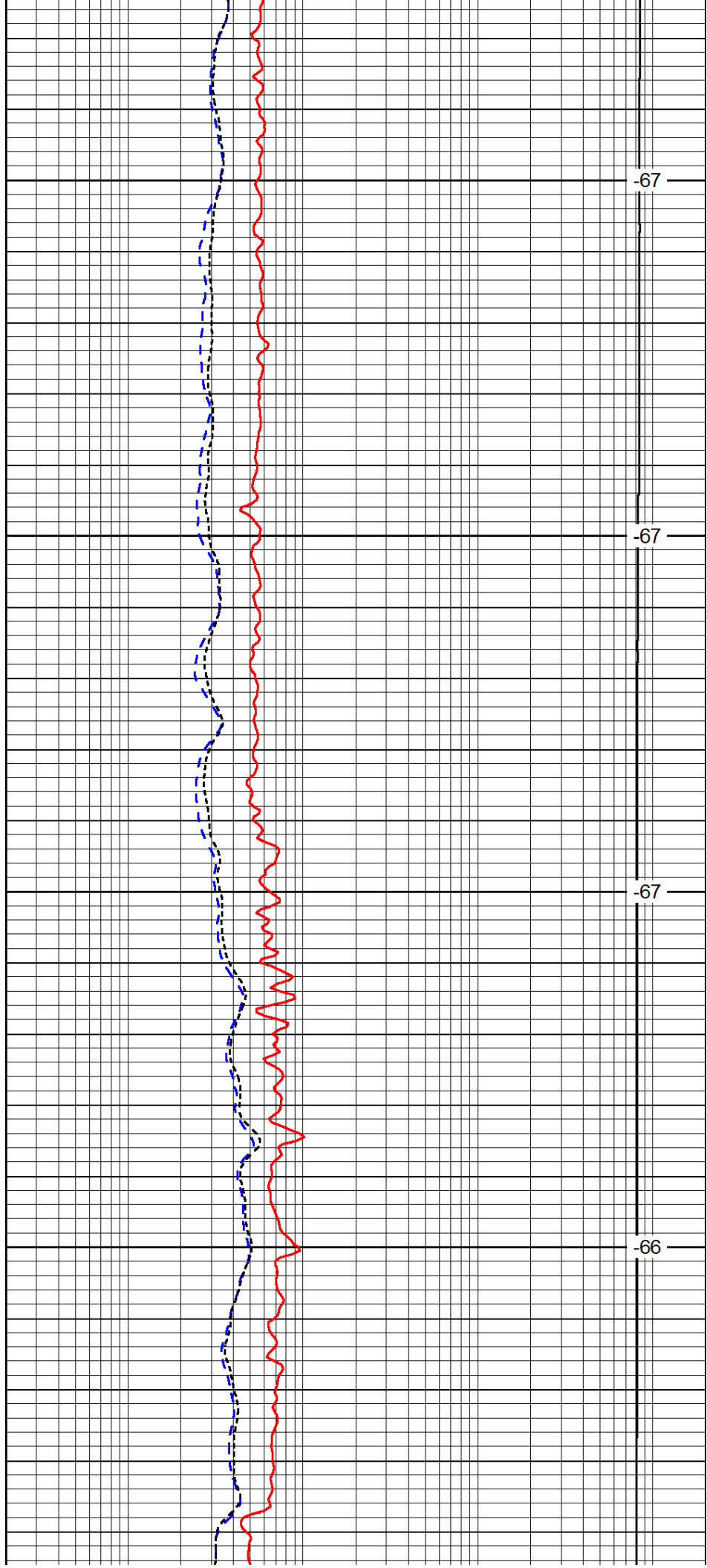


1600

1650

1700

1750

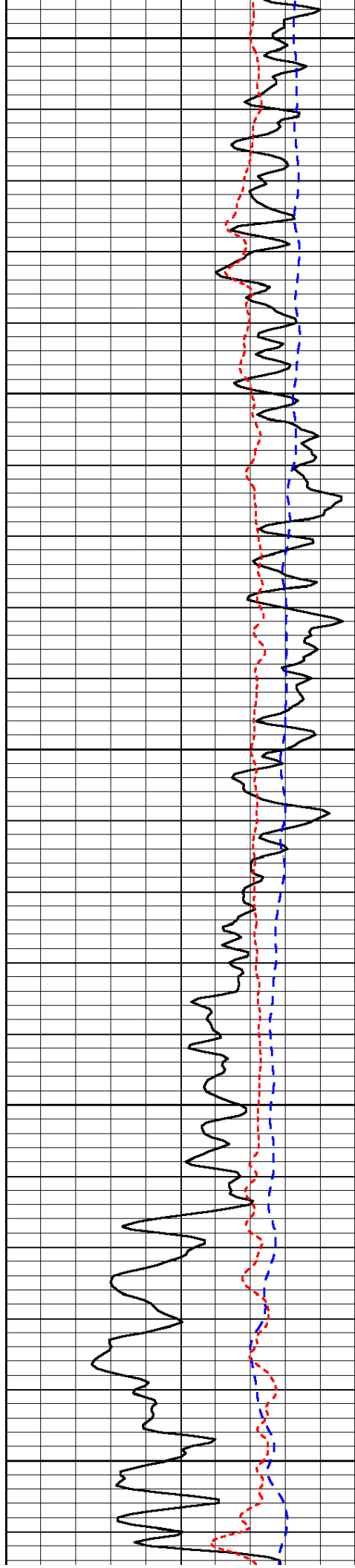


-67

-67

-67

-66



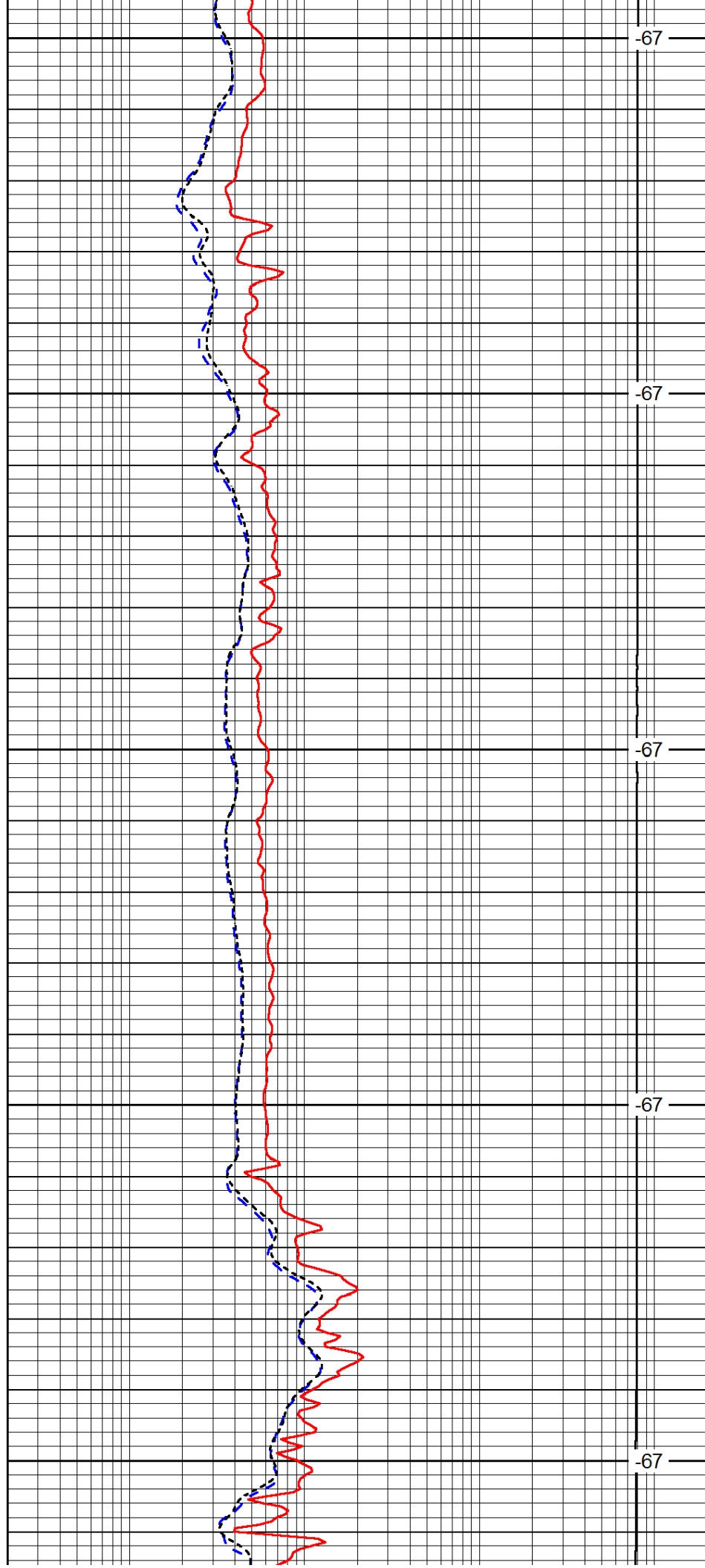
1800

1850

1900

1950

2000



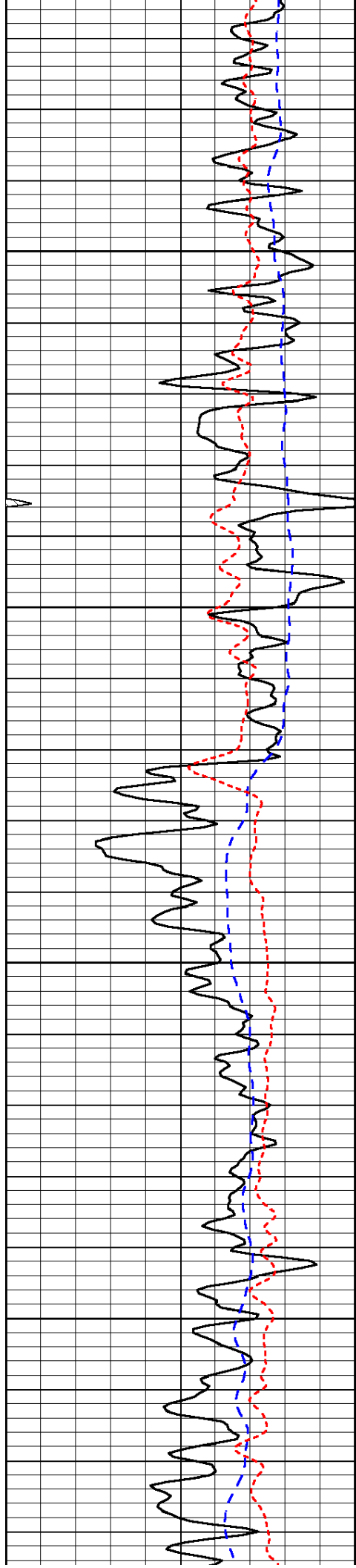
-67

-67

-67

-67

-67

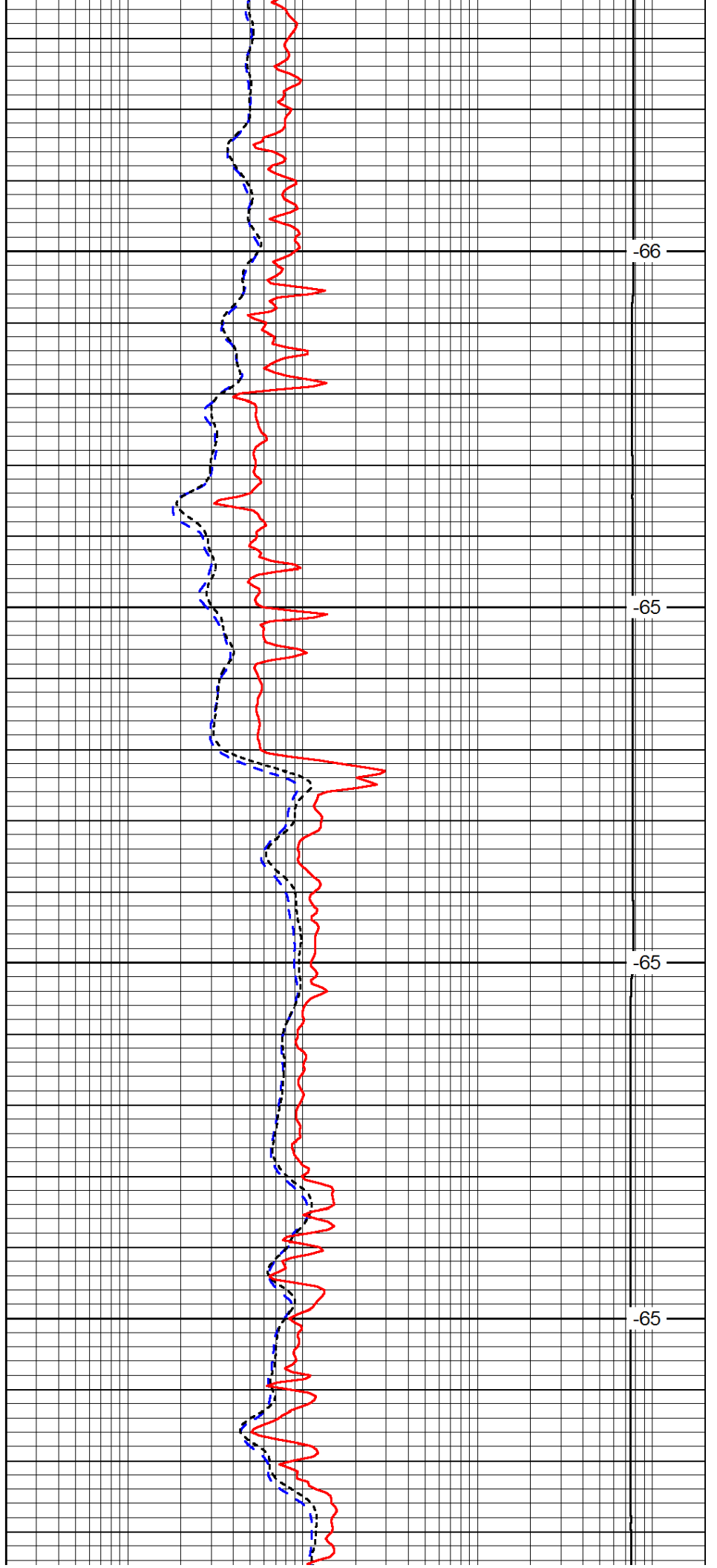


2050

2100

2150

2200

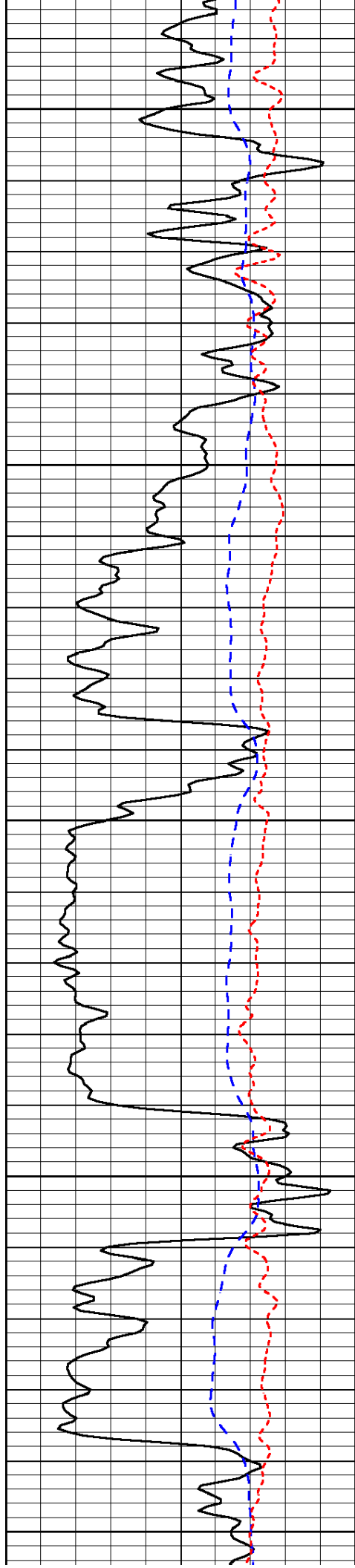


-66

-65

-65

-65



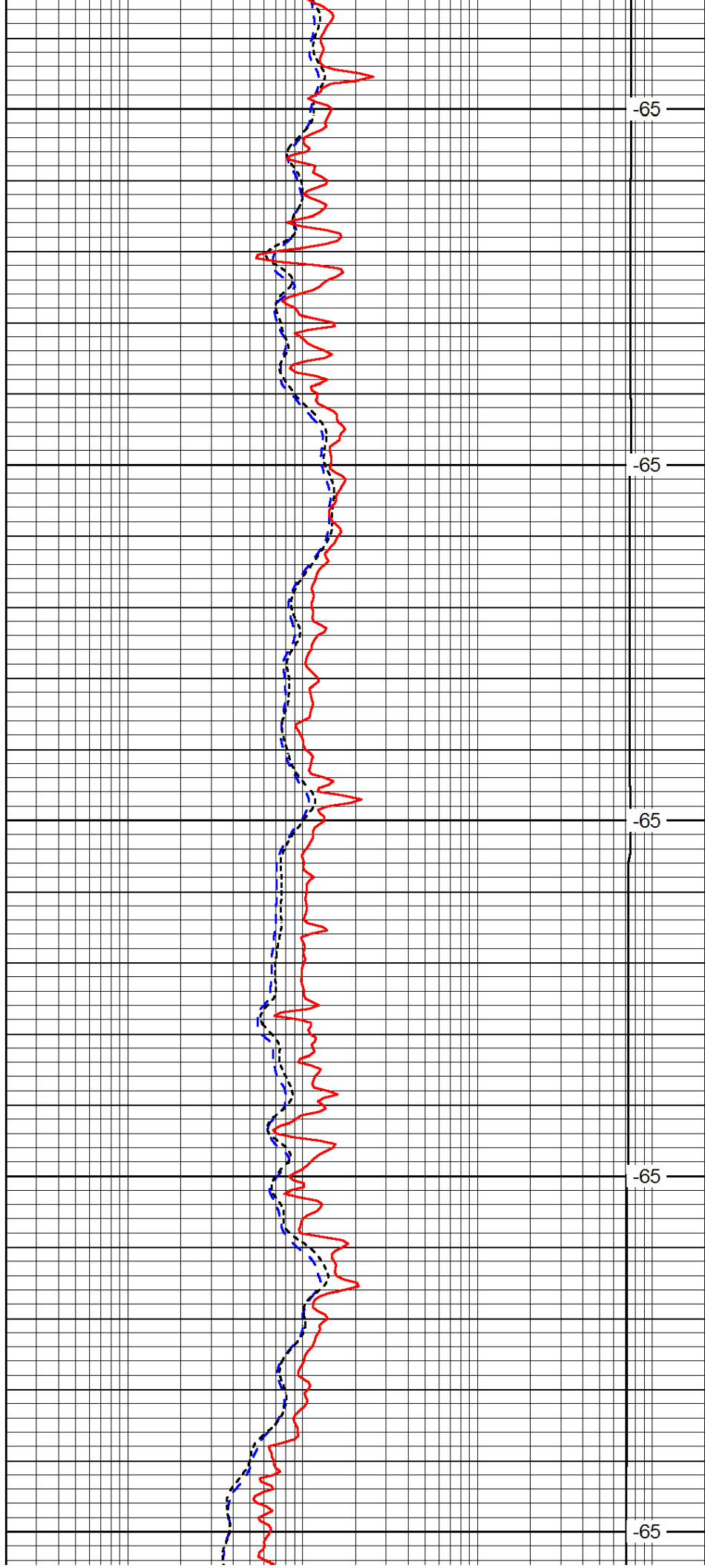
2250

2300

2350

2400

2450



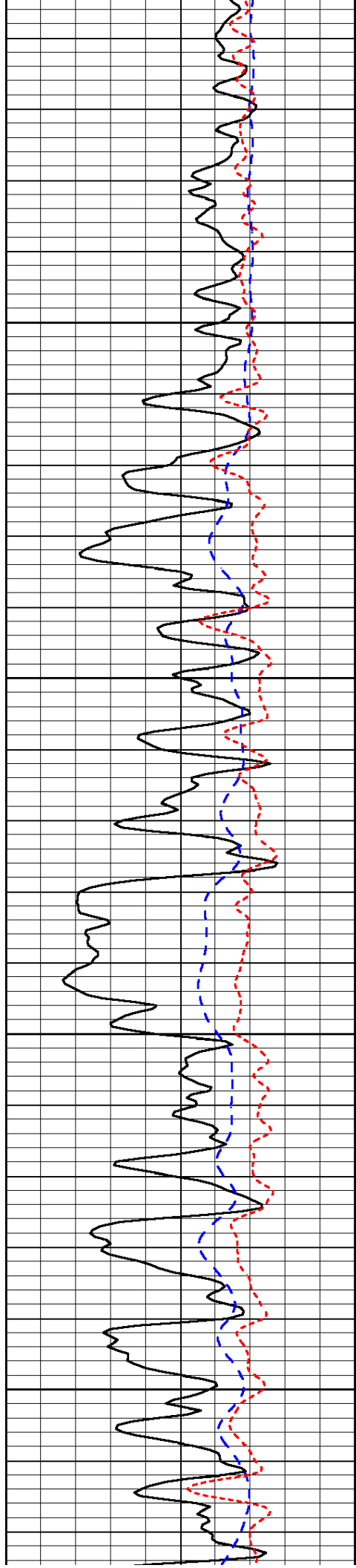
-65

-65

-65

-65

-65

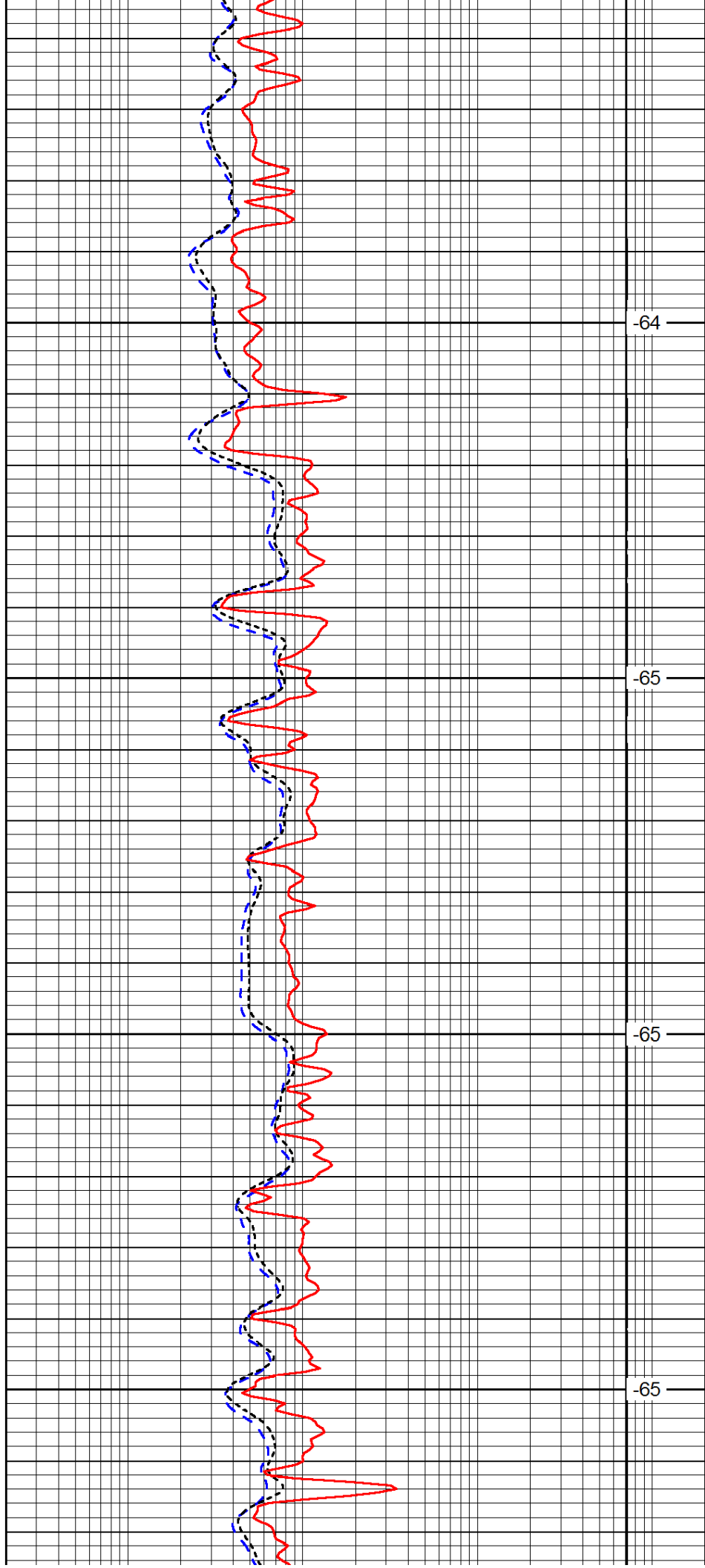


2500

2550

2600

2650

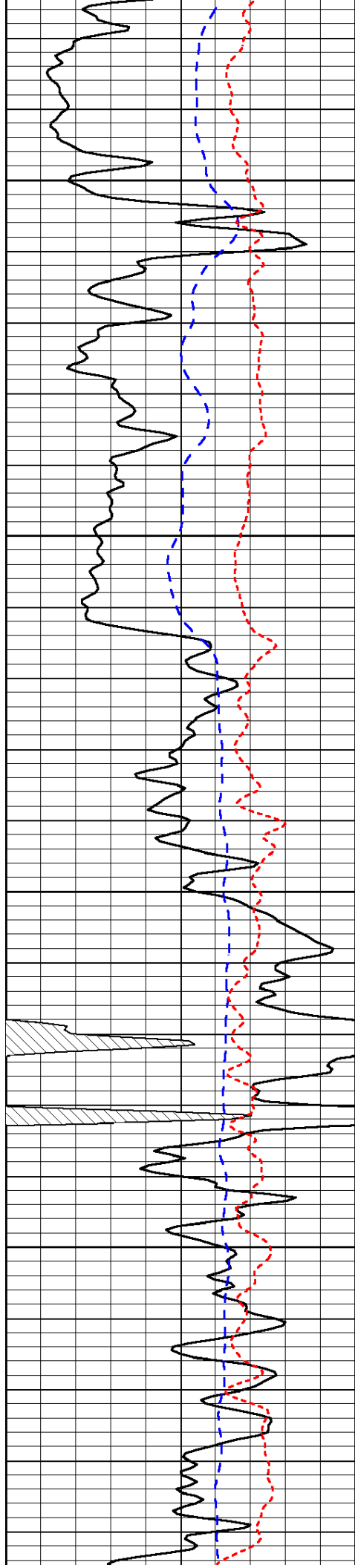


-64

-65

-65

-65

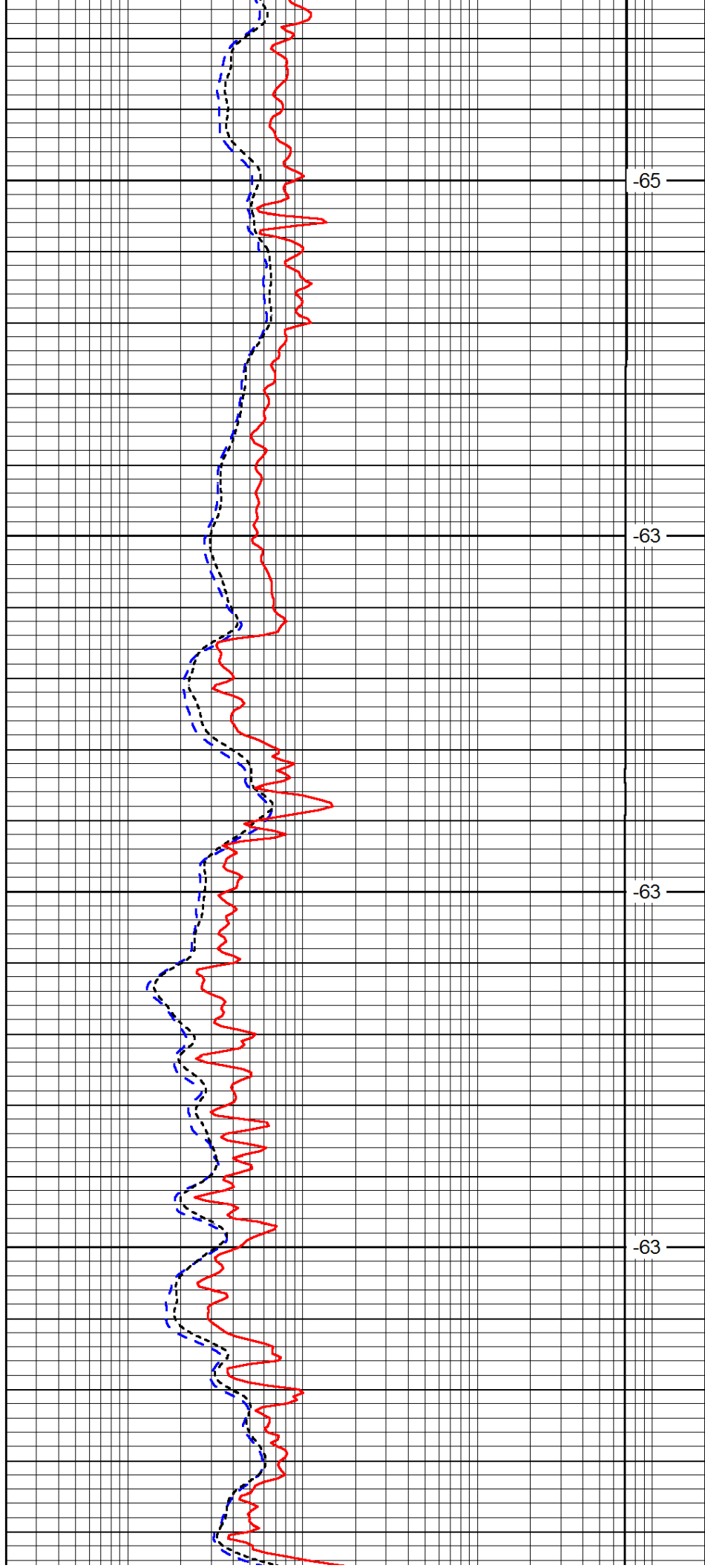


2700

2750

2800

2850

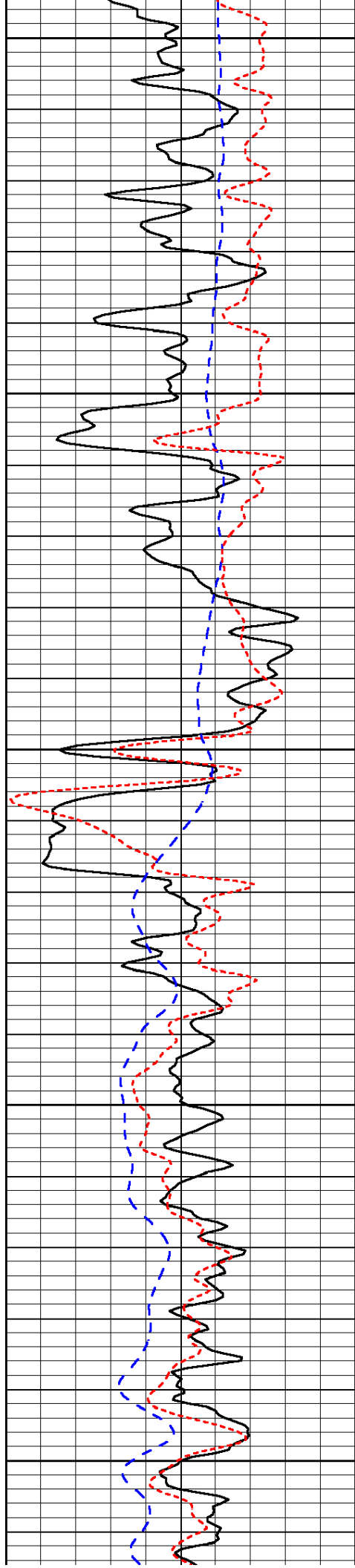


-65

-63

-63

-63



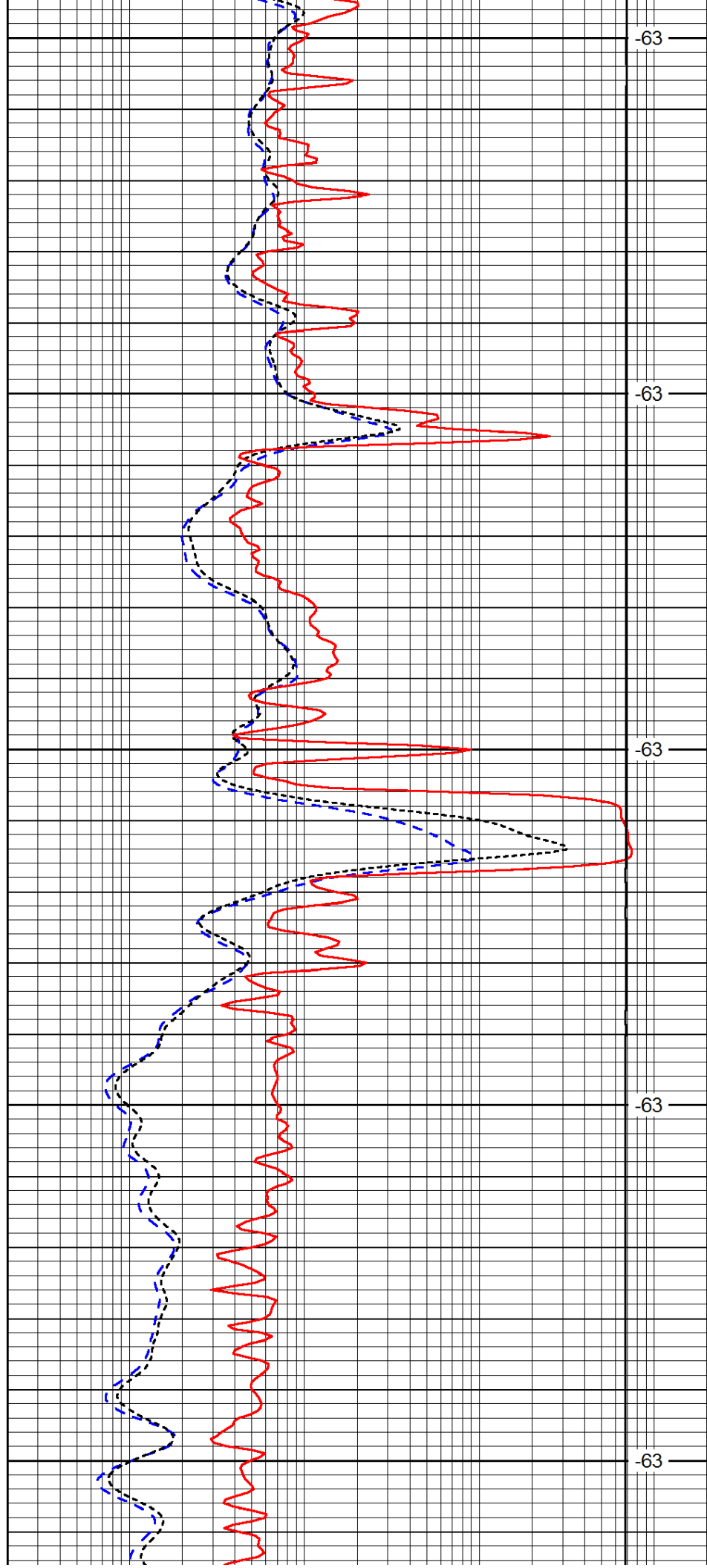
2900

2950

3000

3050

3100



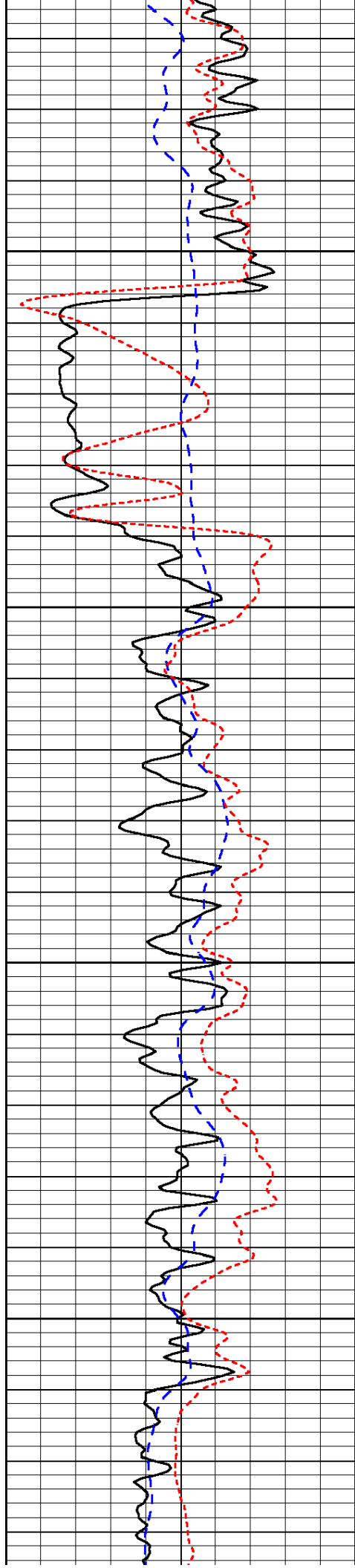
-63

-63

-63

-63

-63

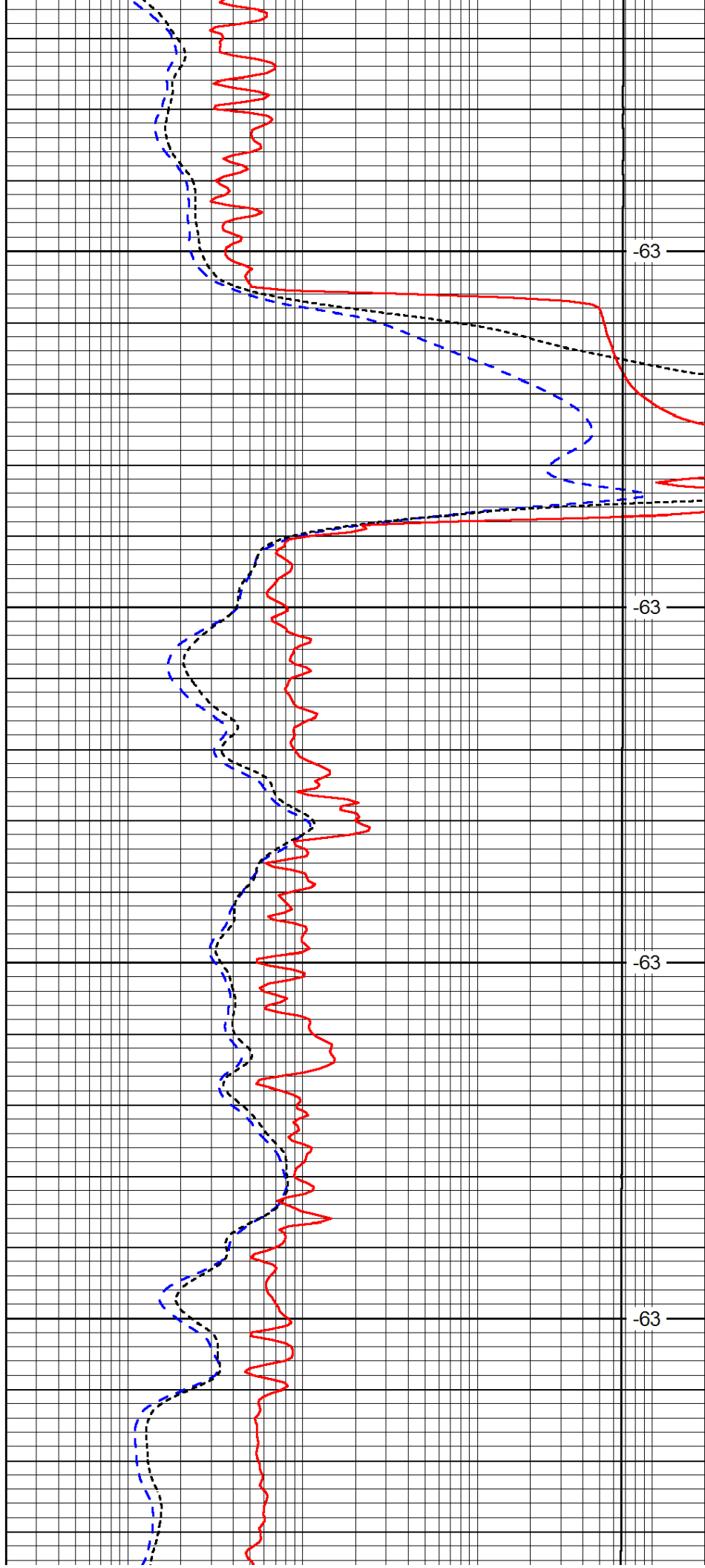


3150

3200

3250

3300

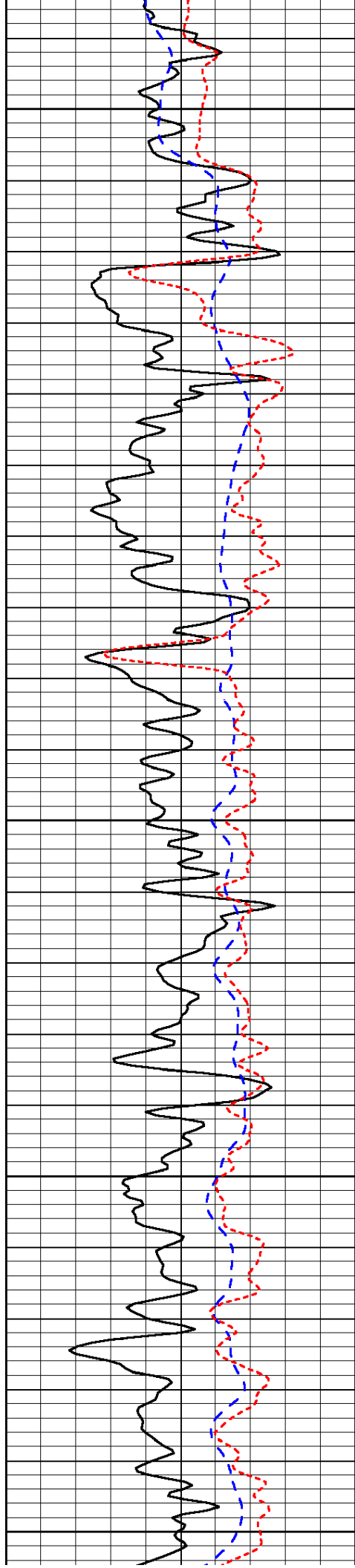


-63

-63

-63

-63



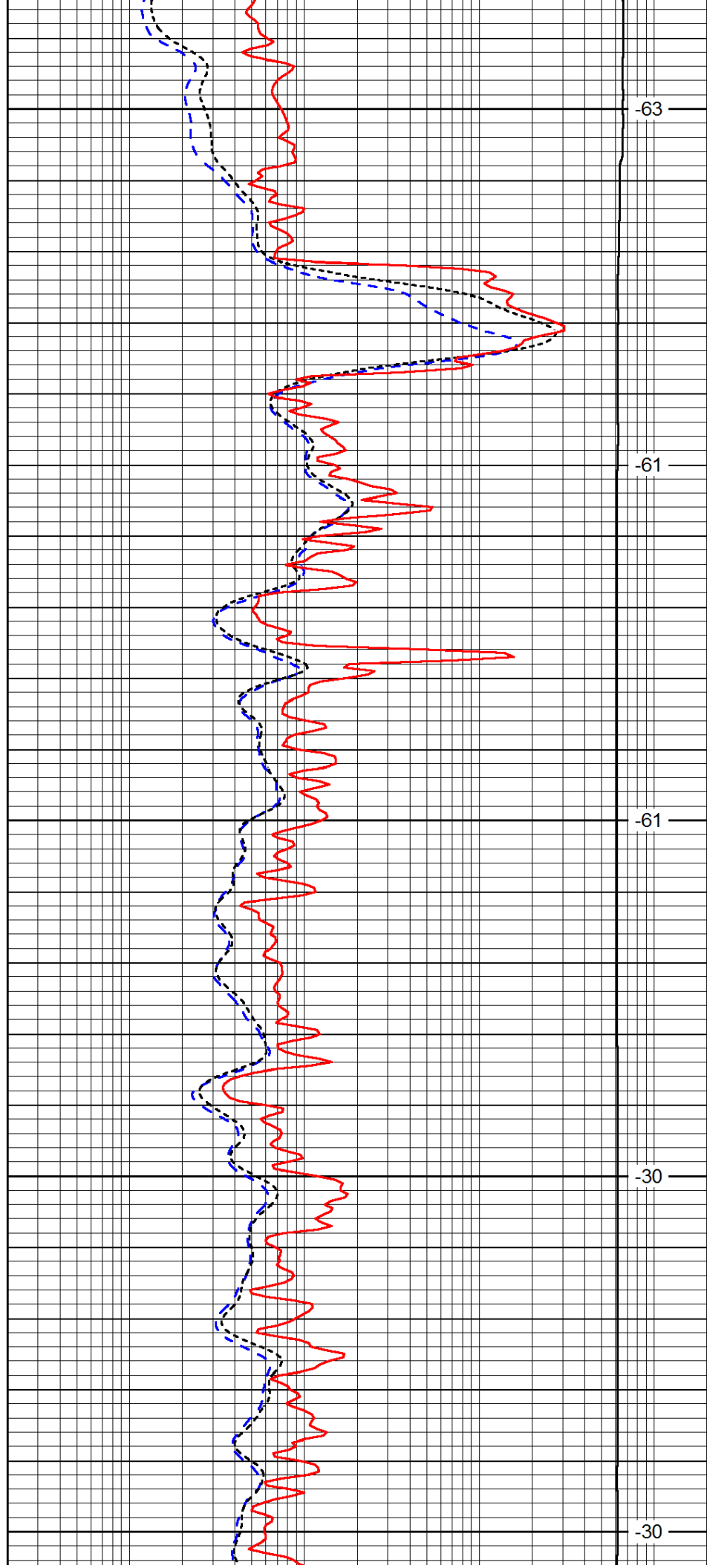
3350

3400

3450

3500

3550



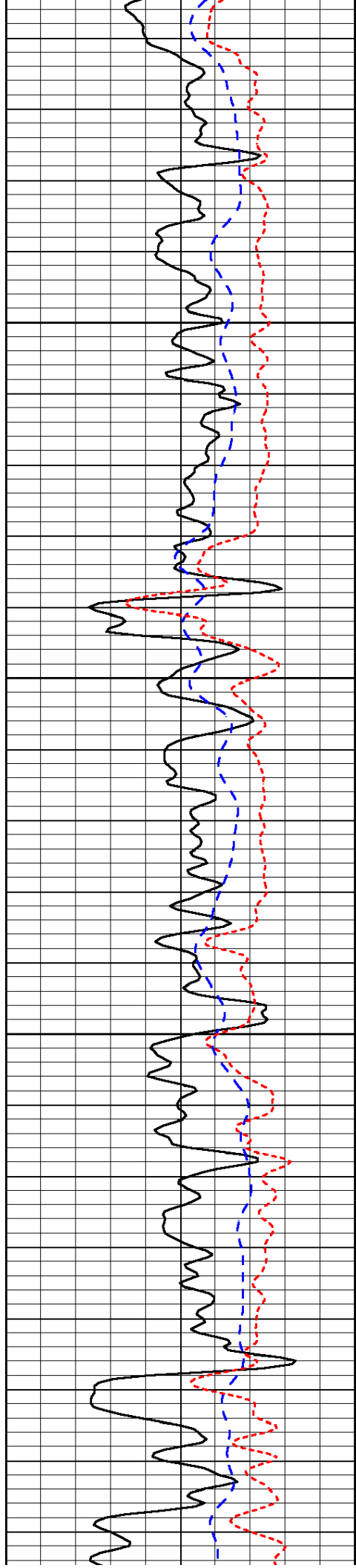
-63

-61

-61

-30

-30

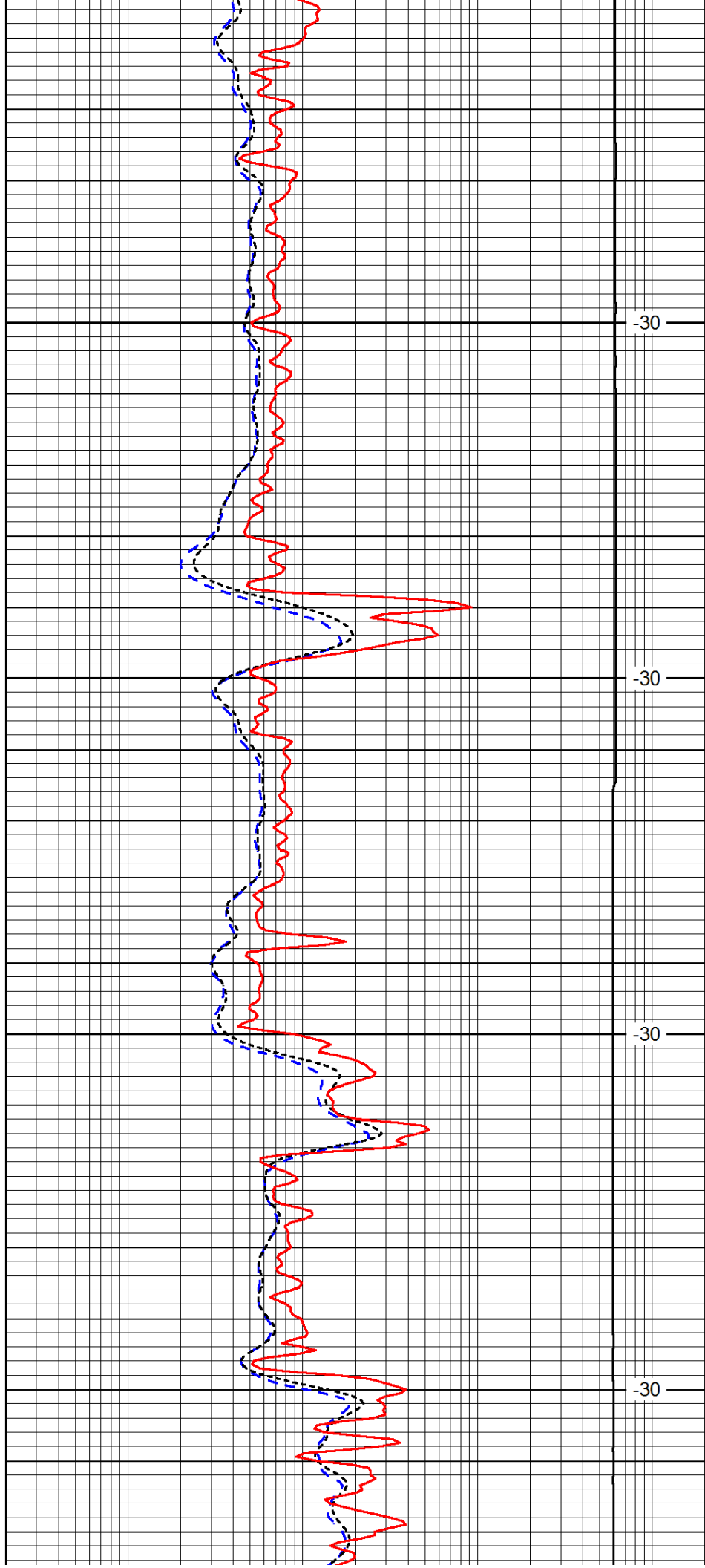


3600

3650

3700

3750

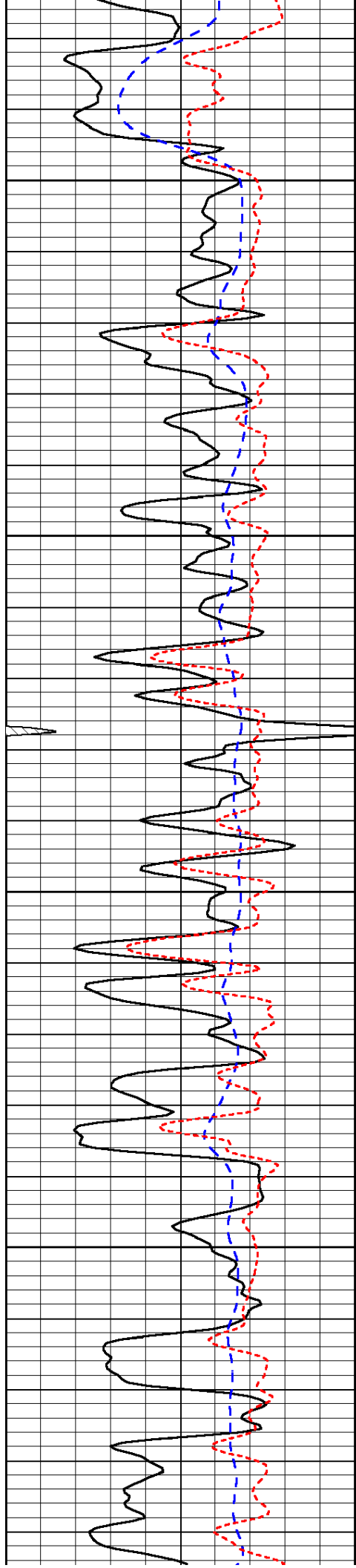


-30

-30

-30

-30

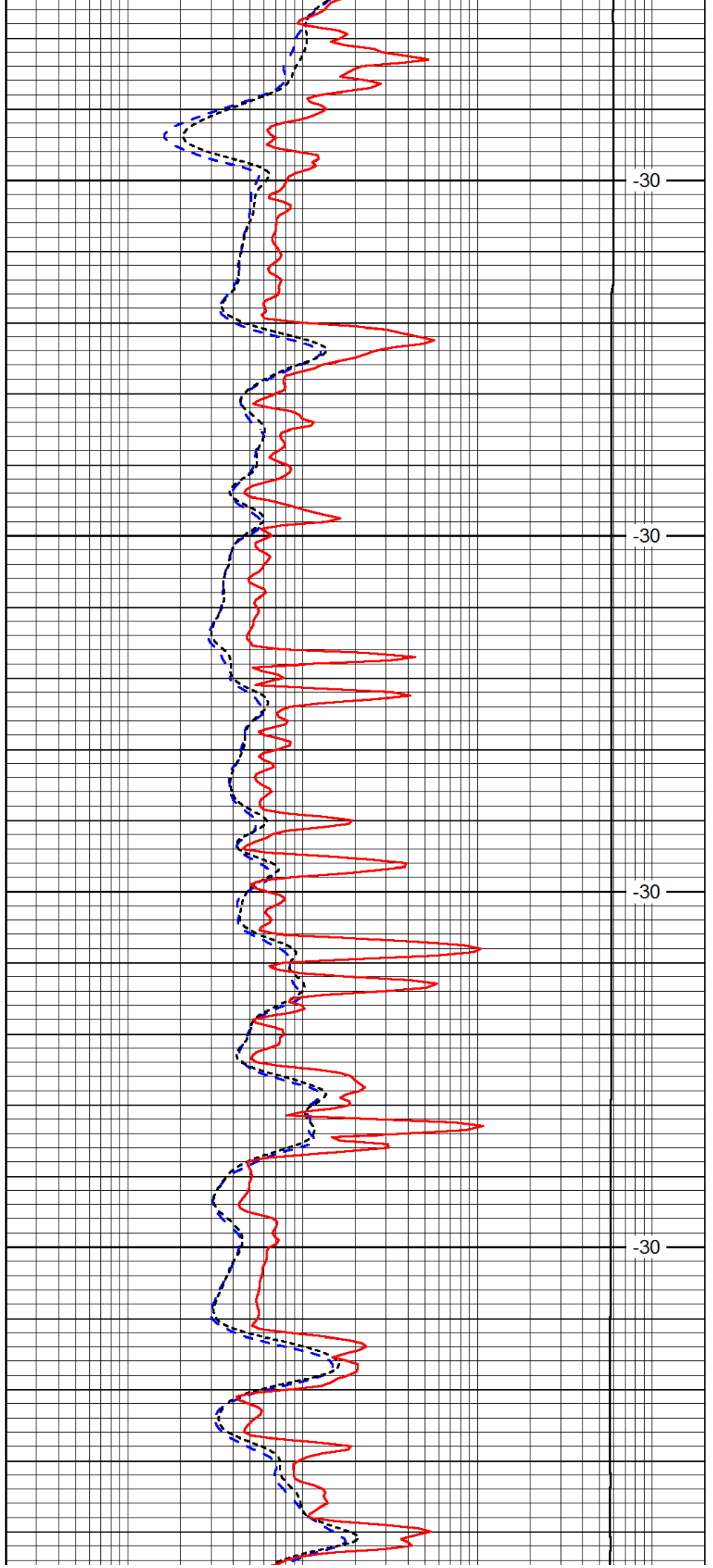


3800

3850

3900

3950

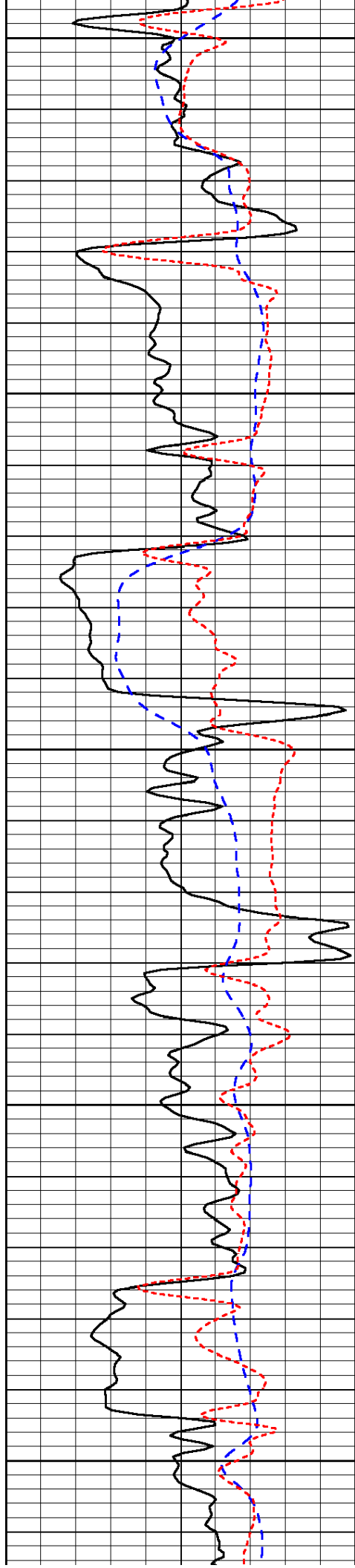


-30

-30

-30

-30



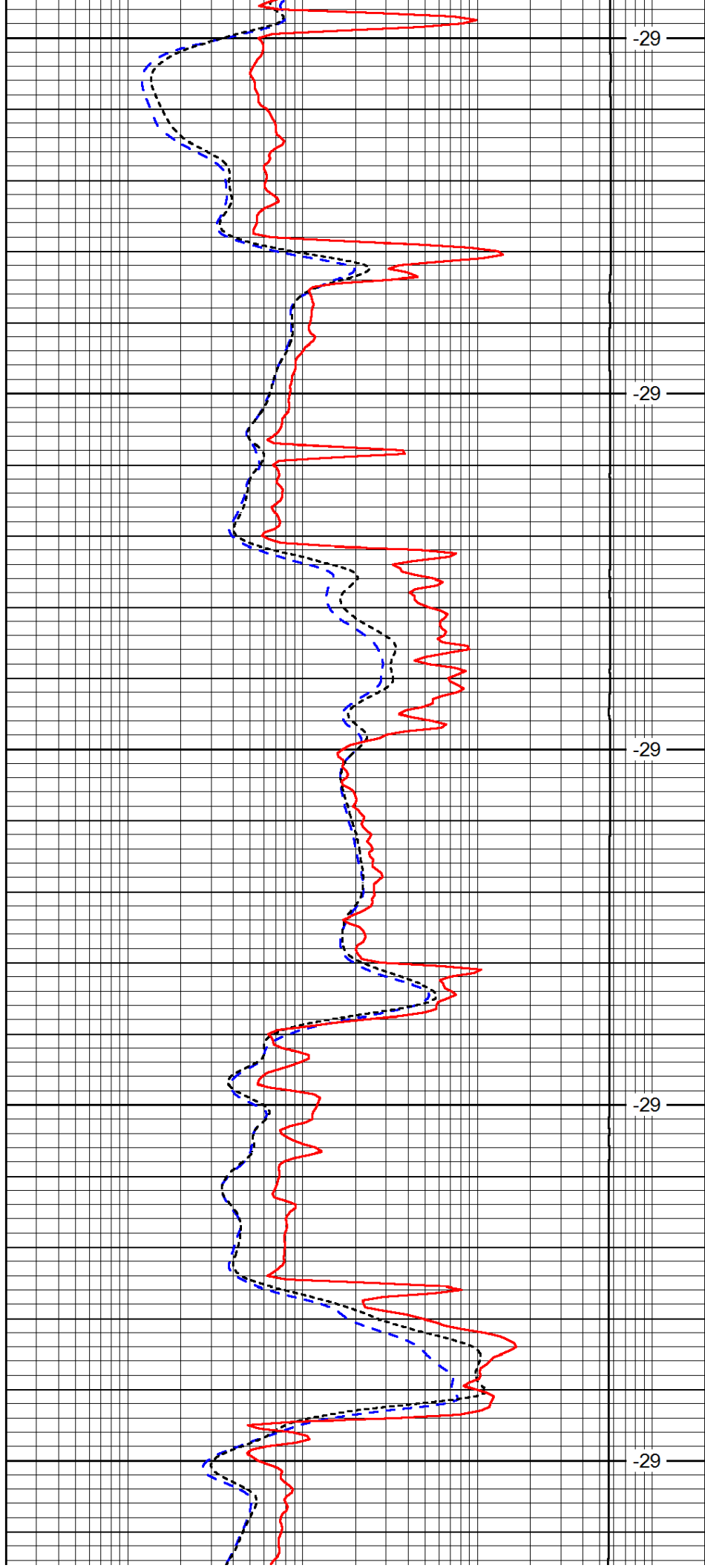
4000

4050

4100

4150

4200



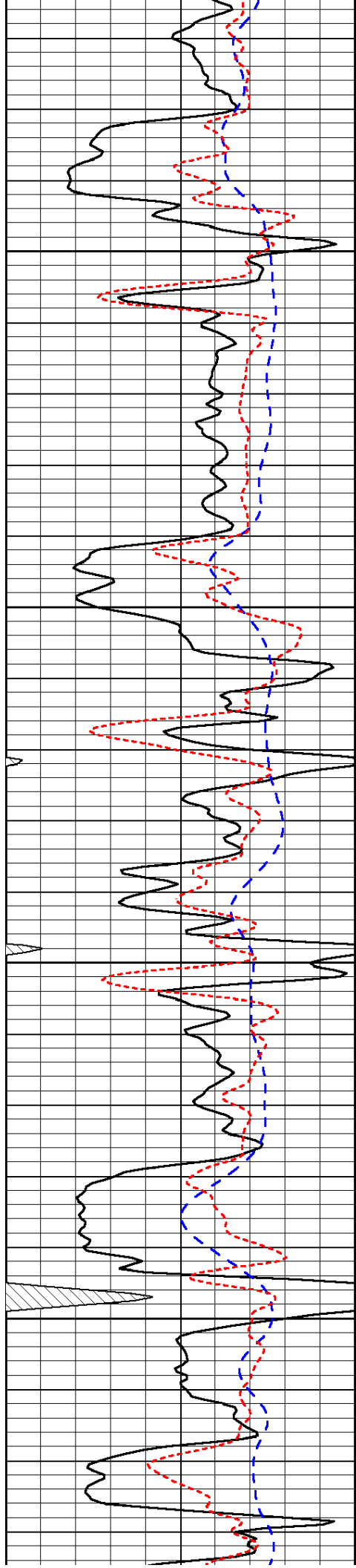
-29

-29

-29

-29

-29

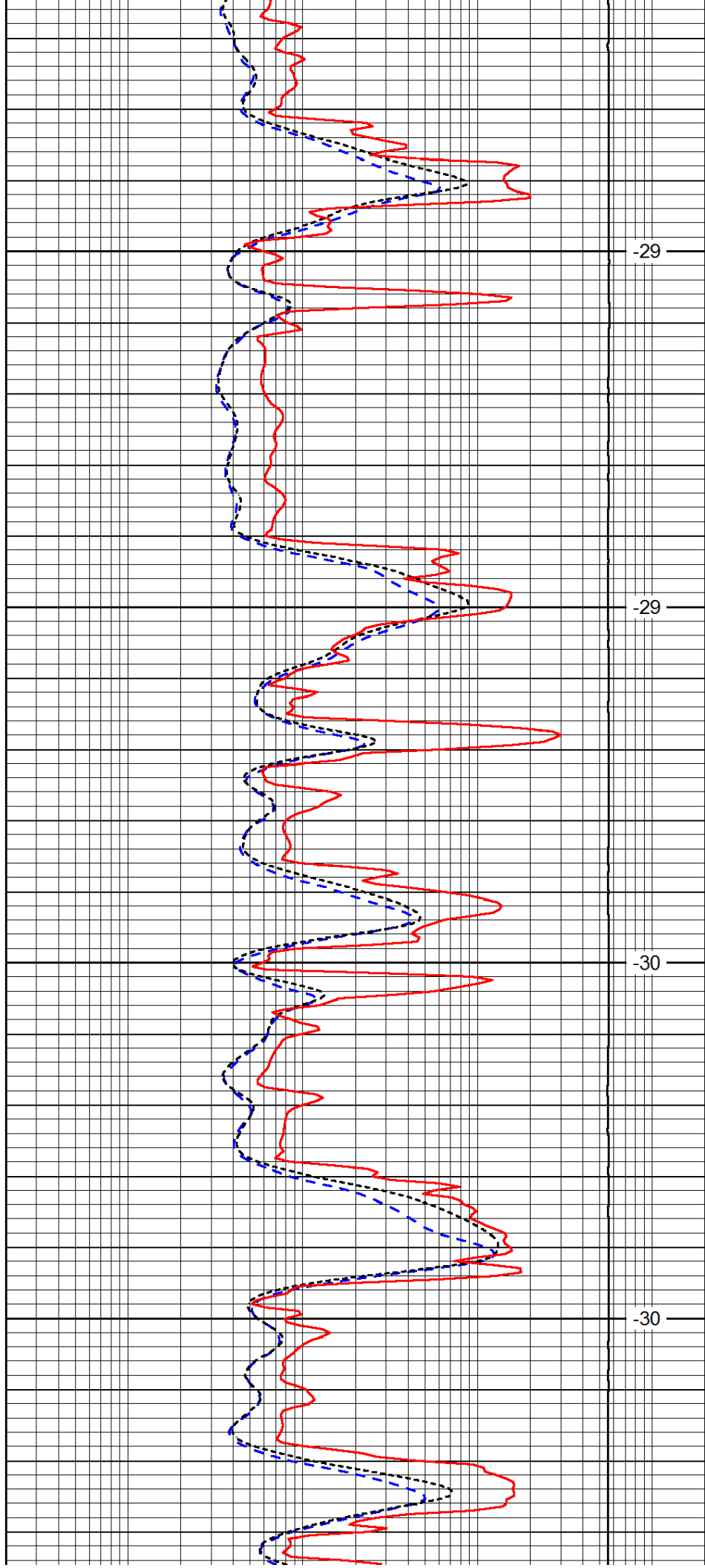


4250

4300

4350

4400

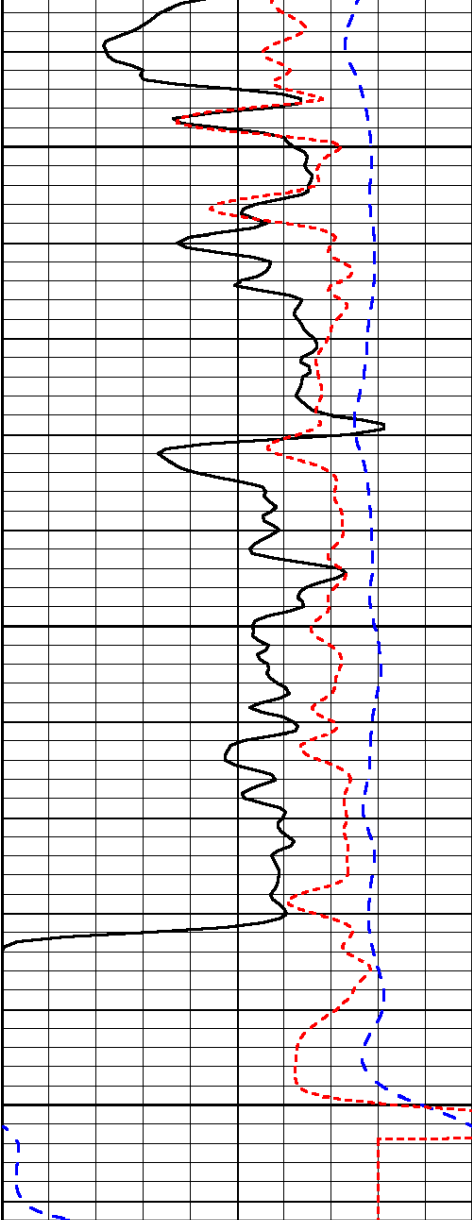


-29

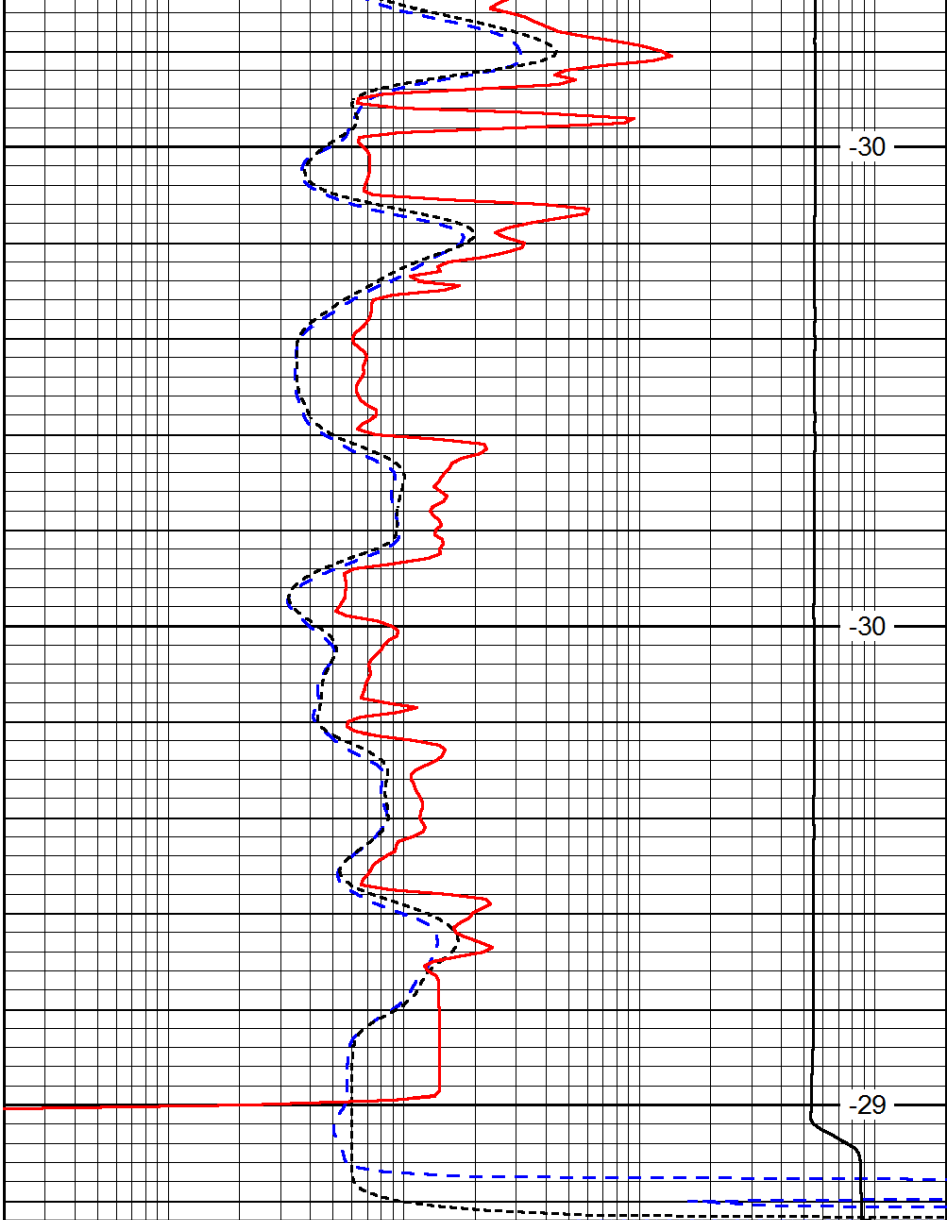
-29

-30

-30



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