



# Dual Induction Log

DIGITAL LOG (785) 625-3858

API No.	15-101-22253-00-00		
Company	Murfin Drilling Company, Inc.		
Well	Sharp No. 1-3		
Field	Wildcat		
County	Lane	State	Kansas
Location	2293' FNL & 2310' FEL		
Sec: 3	Twp: 18S	Rge: 30W	
Permanent Datum	Ground Level	Elevation 2864	Other Services CNL / CDL MEL / BHCS
Log Measured From	Kelly Bushing	10 Ft. Above Perm. Datum	
Drilling Measured From	Frotkelly Bushing		K.B. 2874 D.F. 2864 G.L. 2864

Date	8/14/2010
Run Number	One
Depth Driller	4675
Depth Logger	4673
Bottom Logged Interval	4672
Top Log Interval	0
Casing Driller	8.625 @ 231
Casing Logger	231
Bit Size	7.875
Type Fluid in Hole	Chemical
Salinity, ppm CL	2400
Density / Viscosity	9.3 64
pH / Fluid Loss	11.0 6.0
Source of Sample	Flowline
Rm @ Meas. Temp	.85 @ 75
Rmf @ Meas. Temp	.64 @ 75
Rmc @ Meas. Temp	1.15 @ 75
Source of Rmf / Rmc	Charts
Rm @ BHT	.51 @ 125
Operating Rig Time	4 Hours
Max Rec. Temp. F	125
Equipment Number	17
Location	Hays
Recorded By	R. Barnhart
Witnessed By	Ken LeBlanc
	M. Garrison

<<< 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

Dighton, KS  
 8W to Dodge Rd., 3N, 3/4W, 1/2S into

Database File: murfin sharp 1-3hd.db  
 Dataset Pathname: dil/murfstck  
 Presentation Format: dil2in  
 Dataset Creation: Sat Aug 14 13:44:16 2010  
 Charted by: Depth in Feet scaled 1:600

0 Gamma Ray 150  
-200 SP 0

0 Shallow Resistivity 50  
0 Deep Resistivity 50

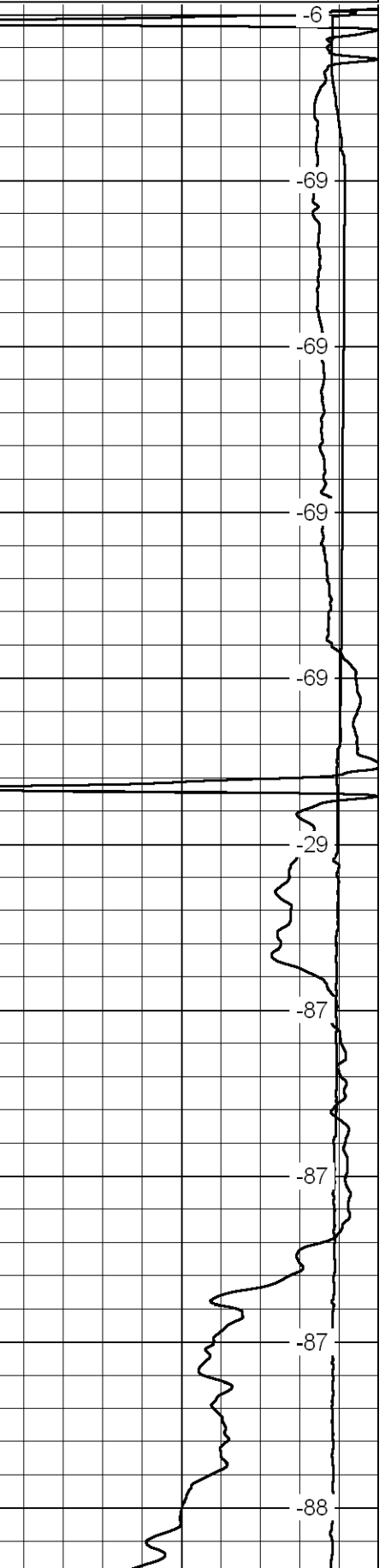
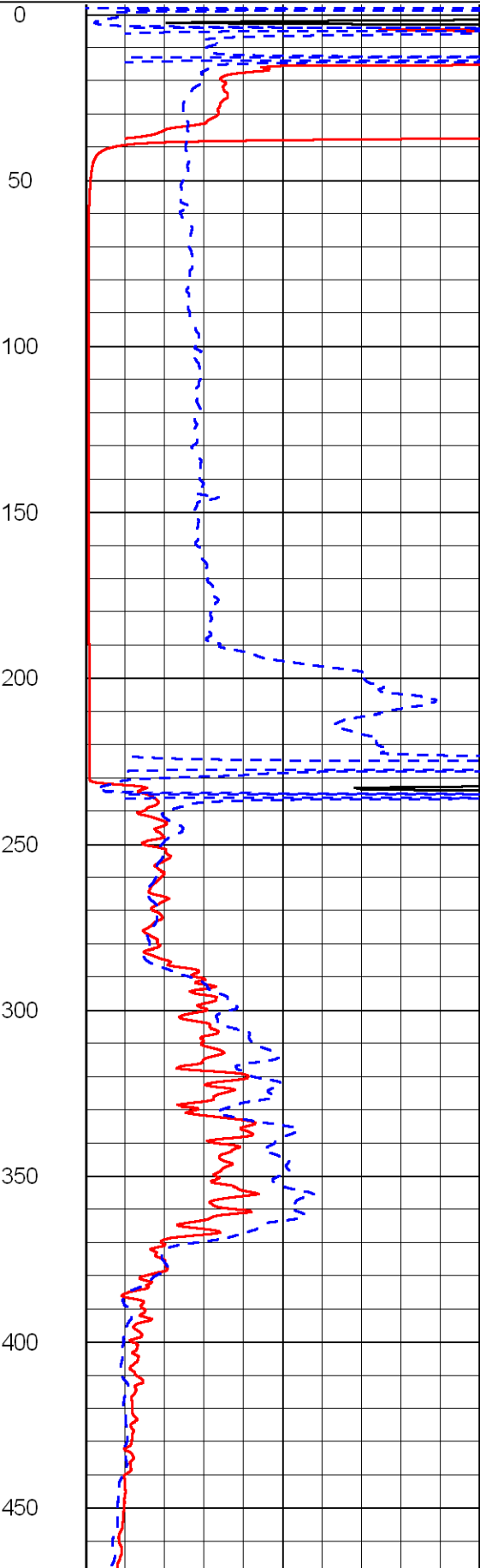
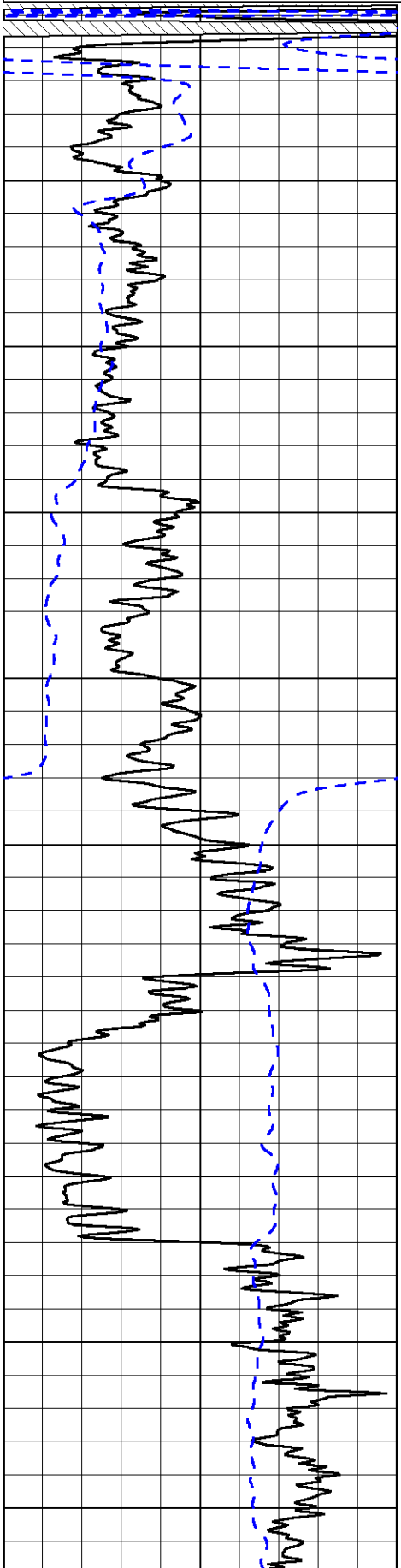
LSPD

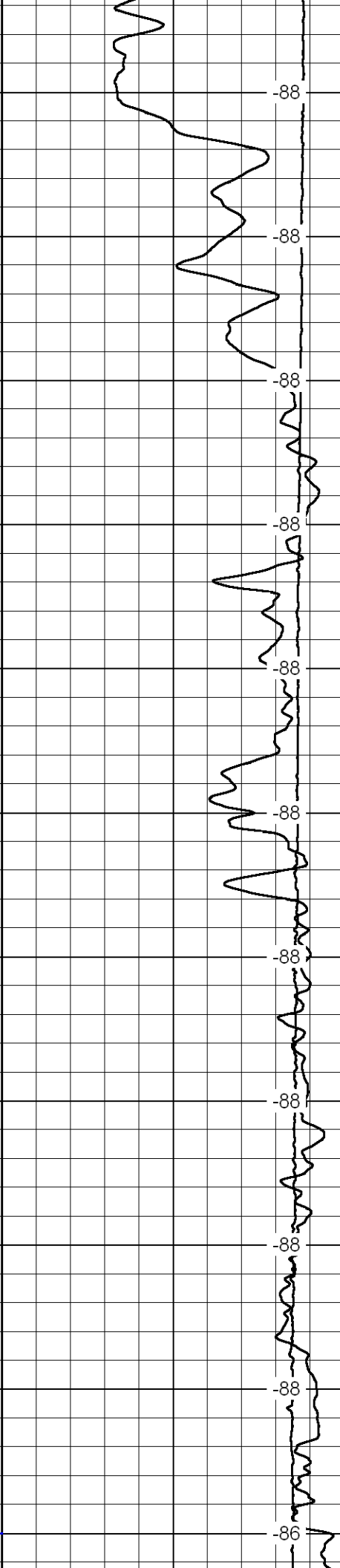
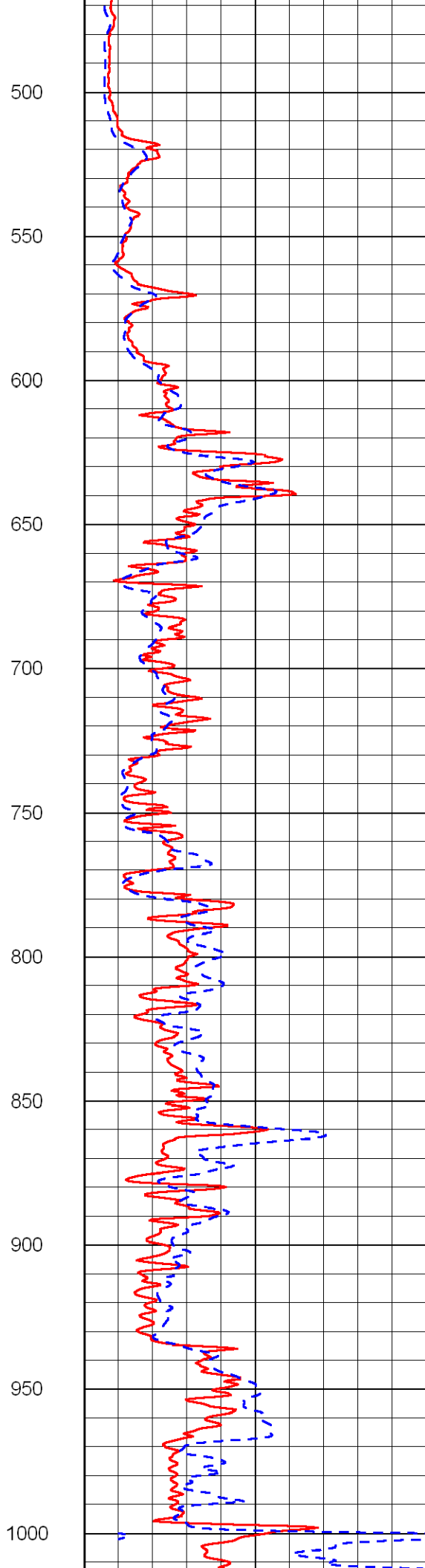
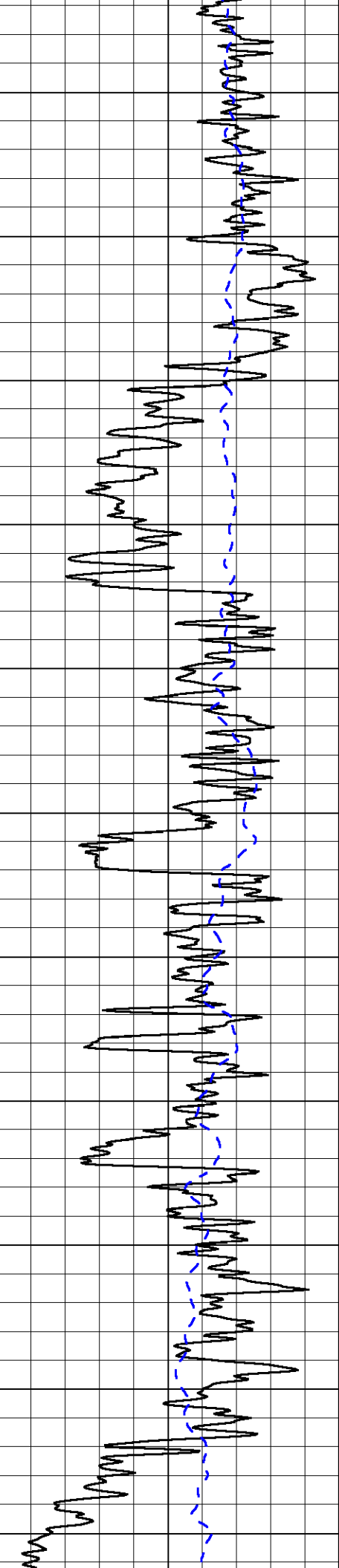
1000 Conductivity 0

15000 Line Tension 0

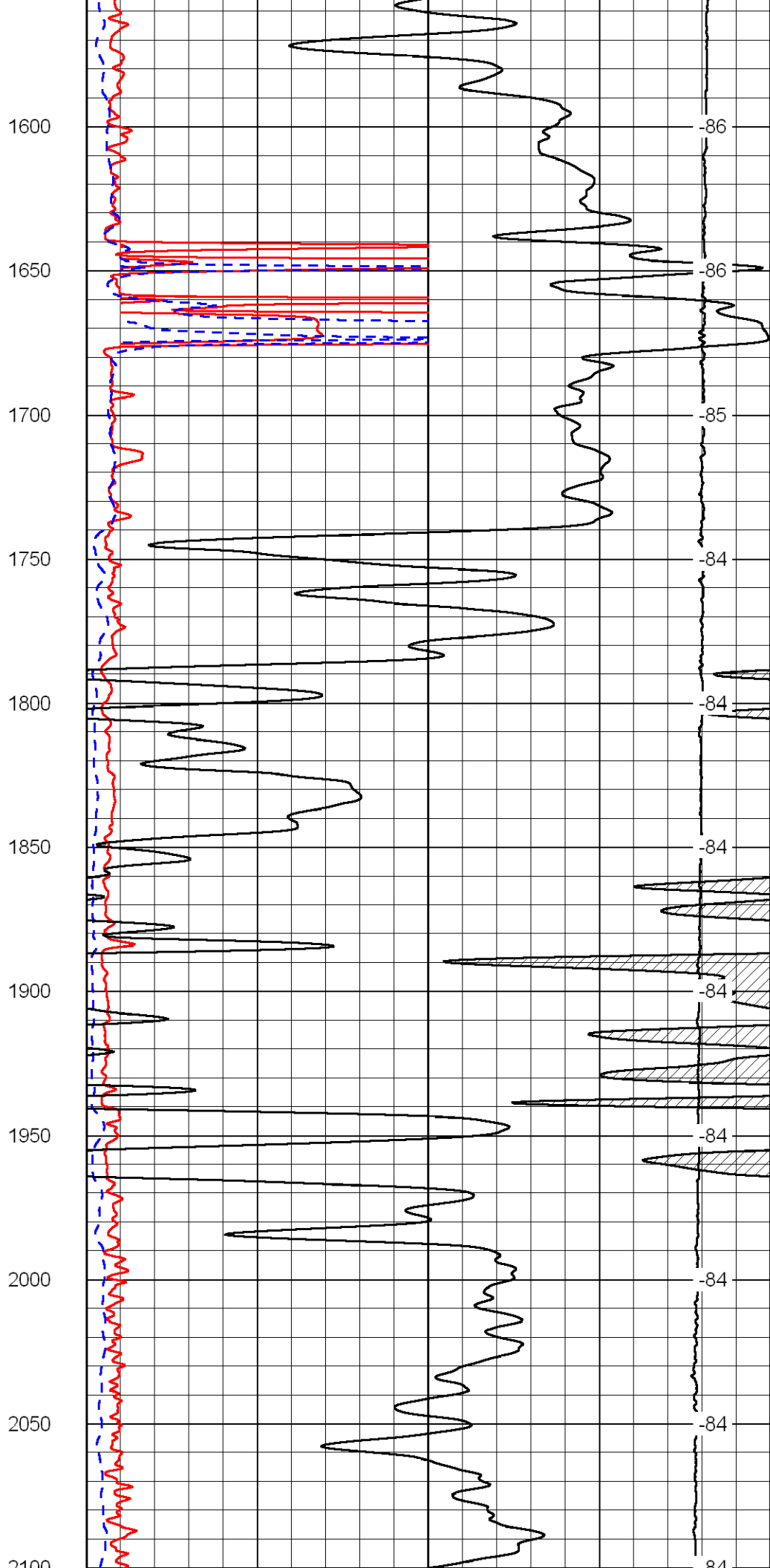
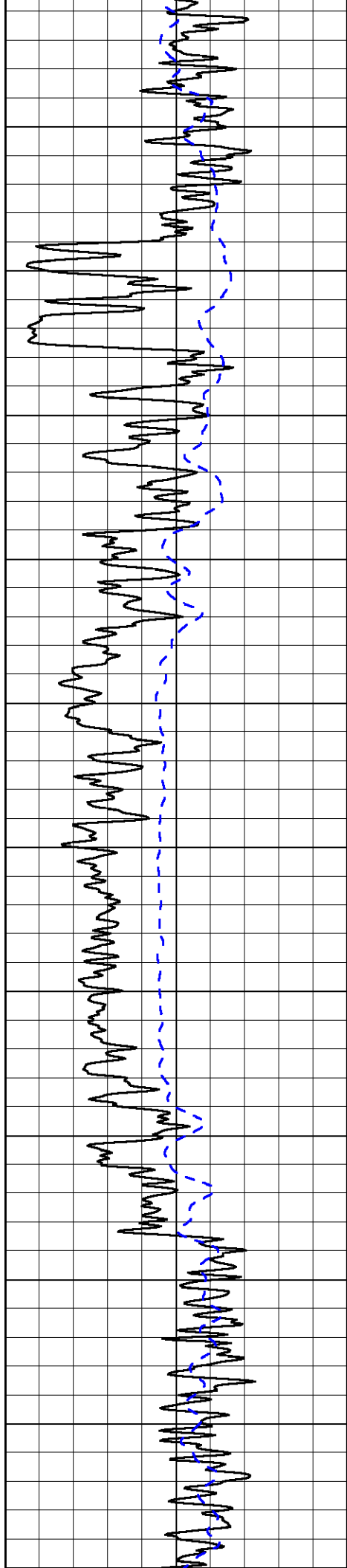
50 Shallow Resistivity 500

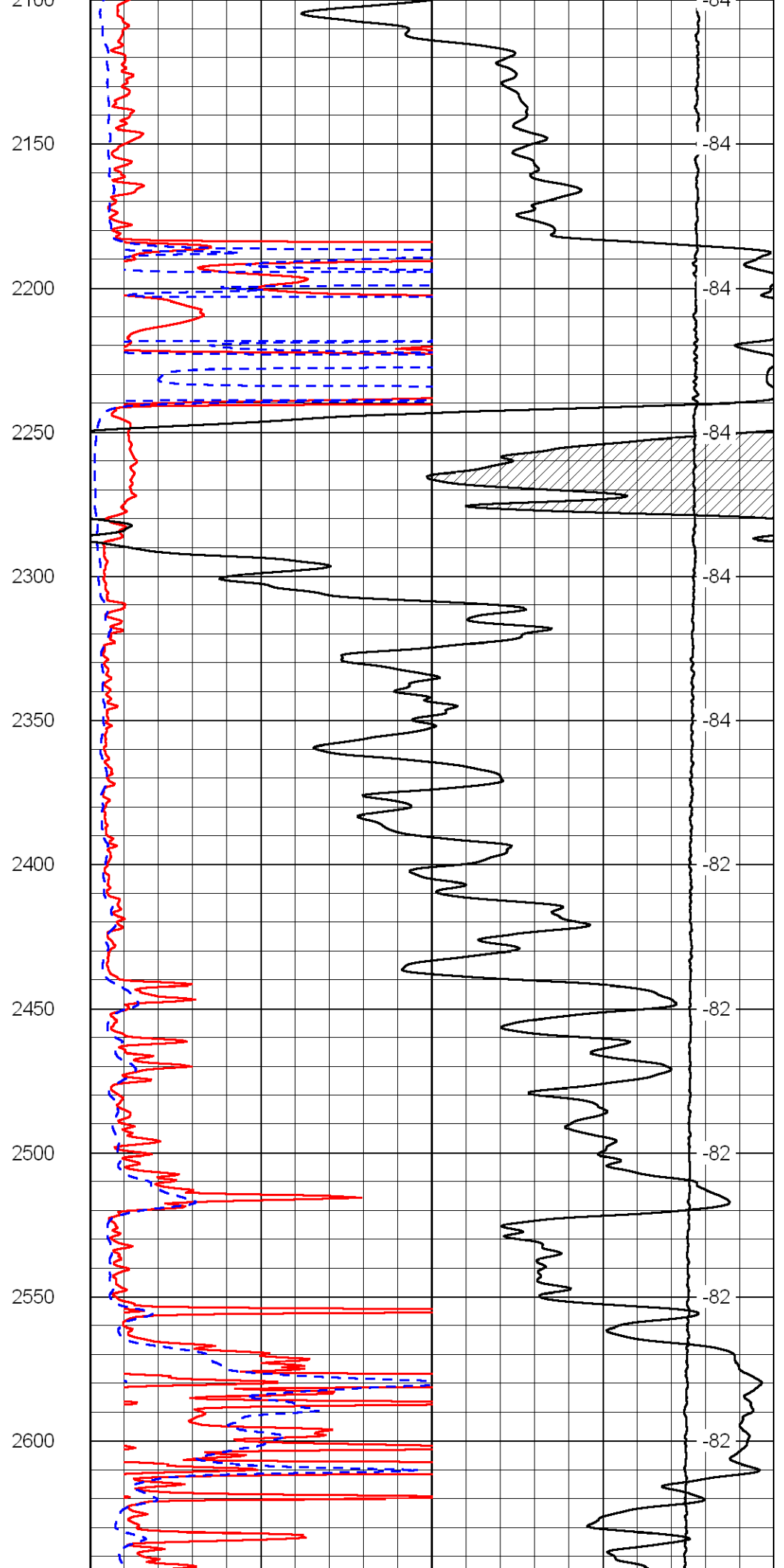
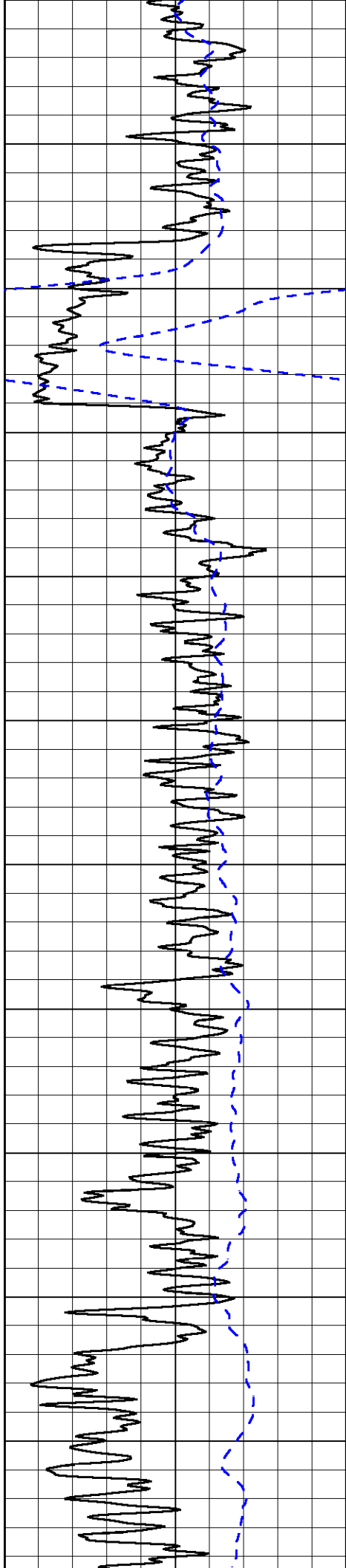
50 Deep Resistivity 500

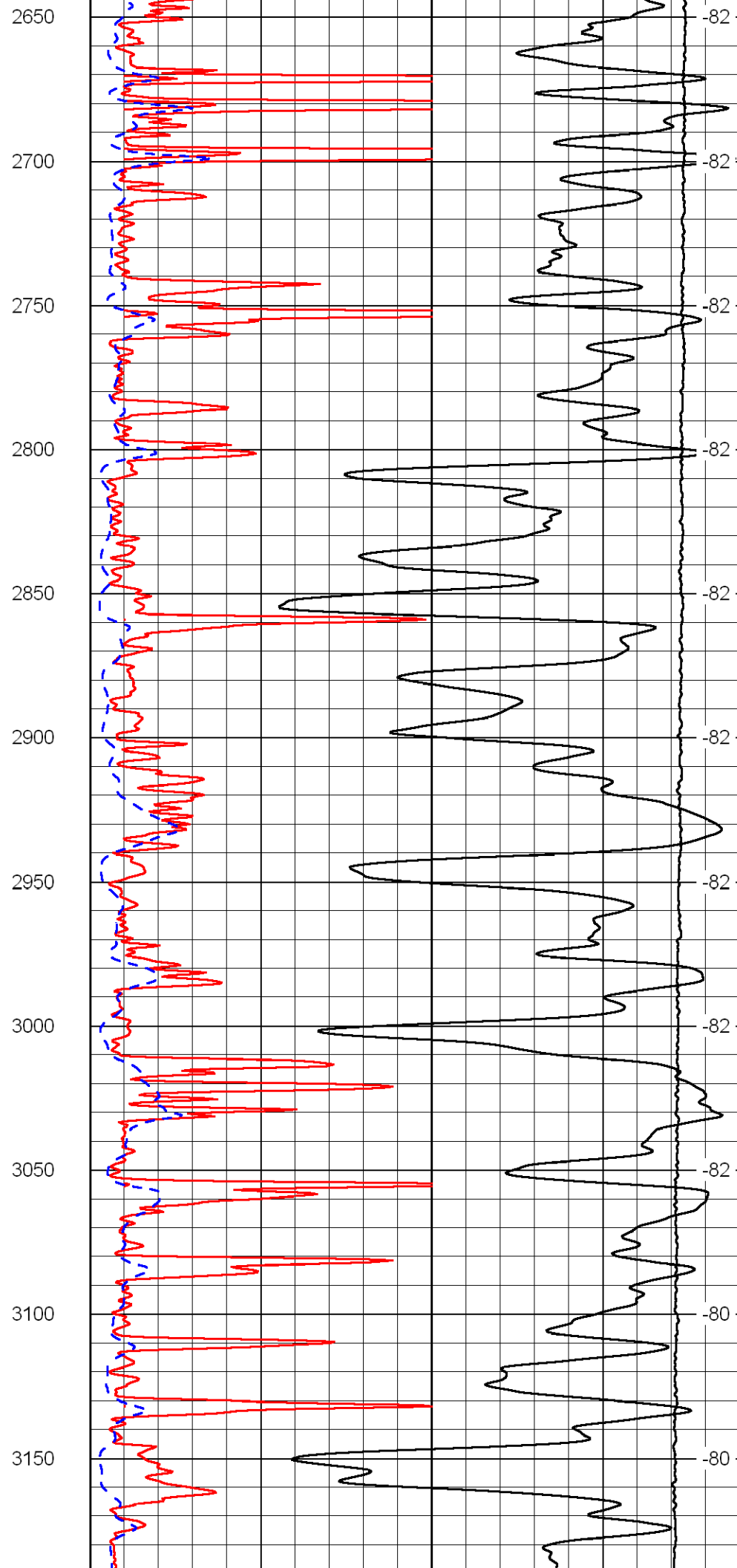
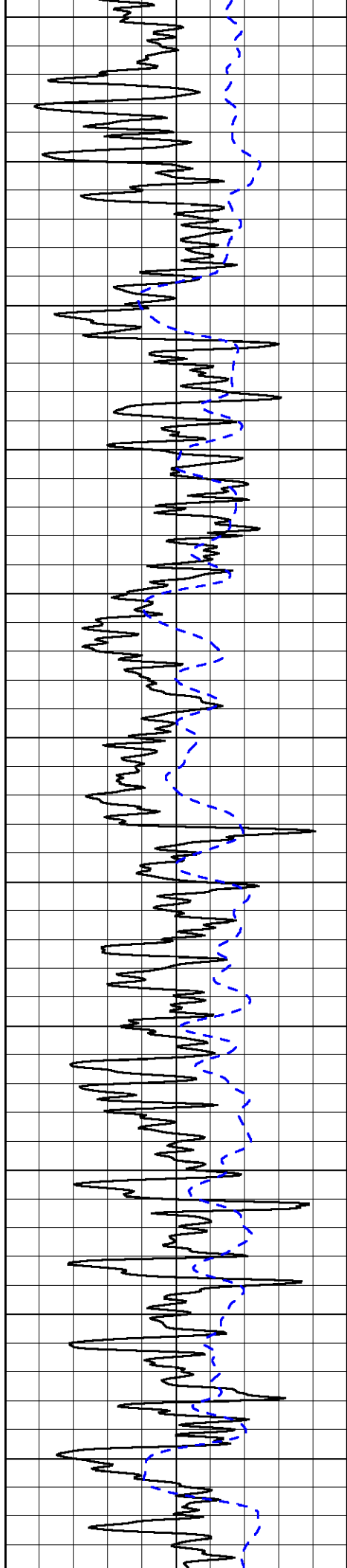


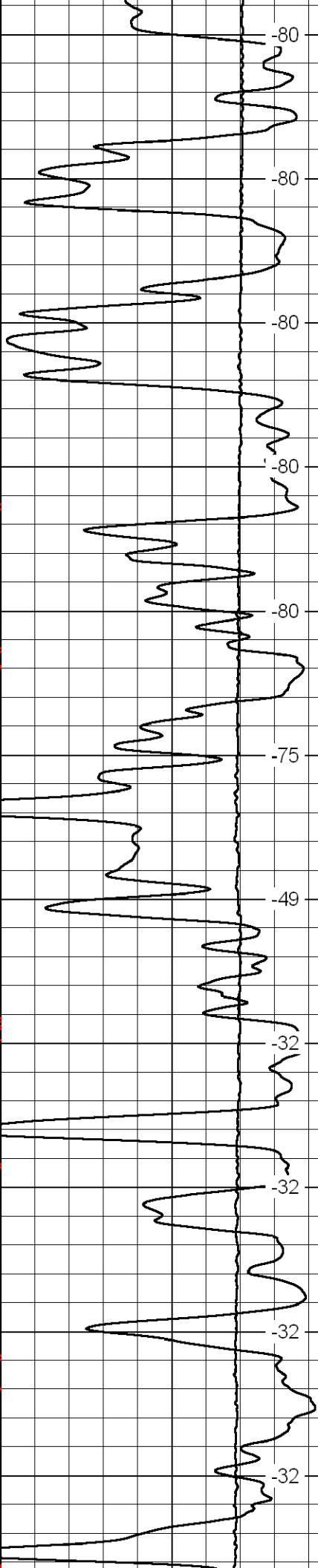
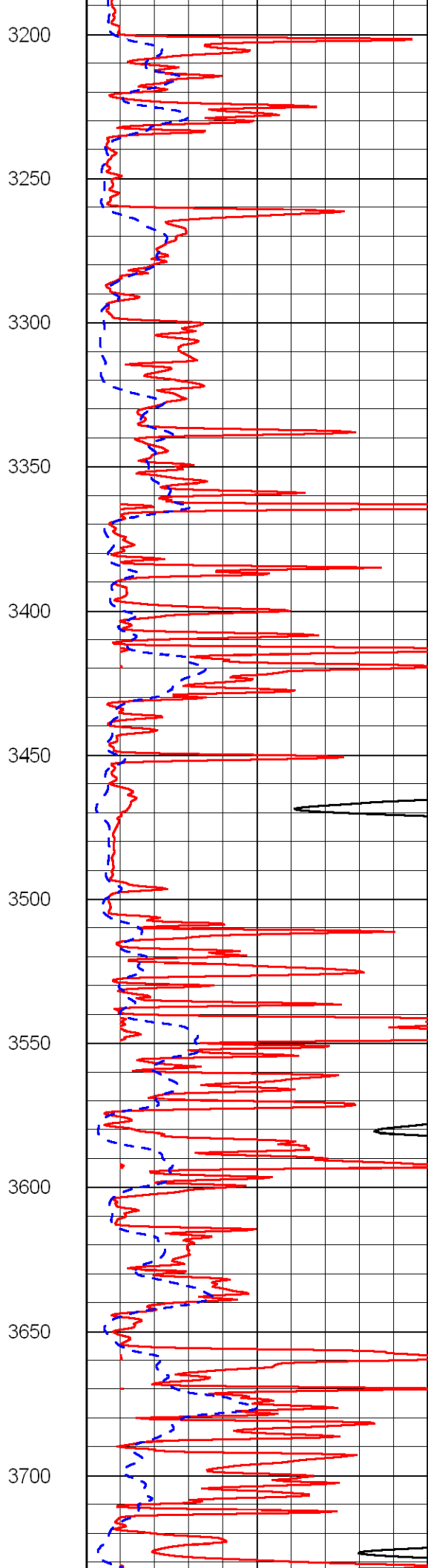
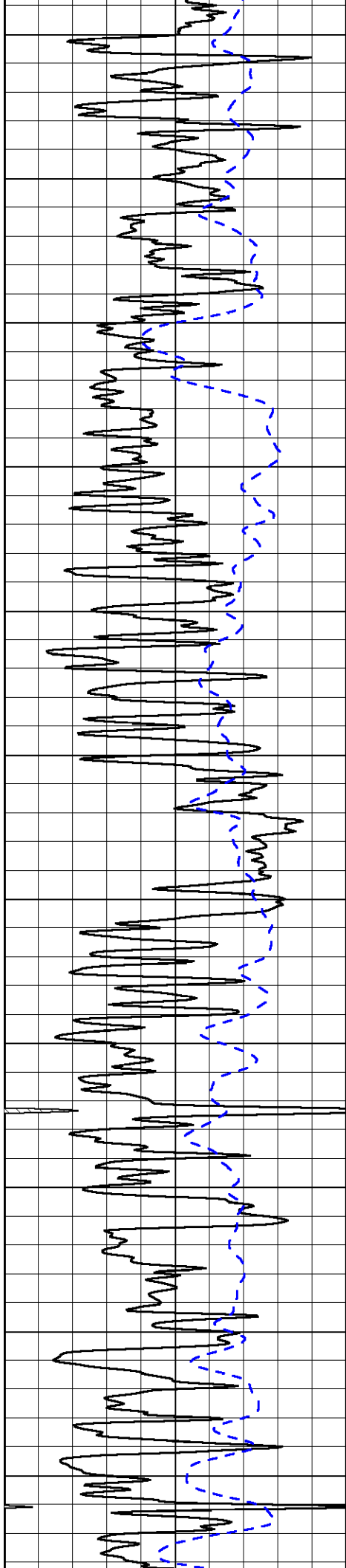




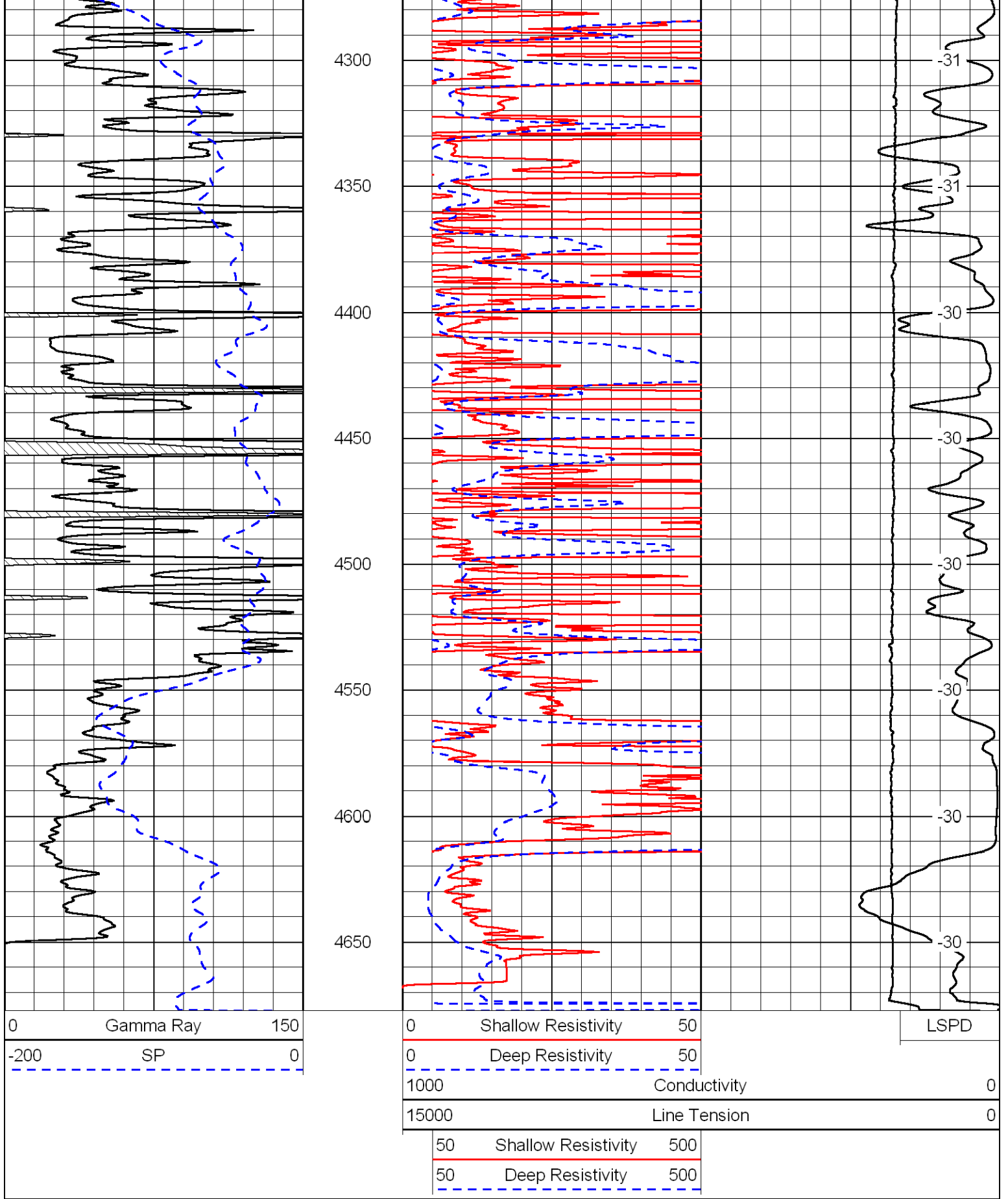












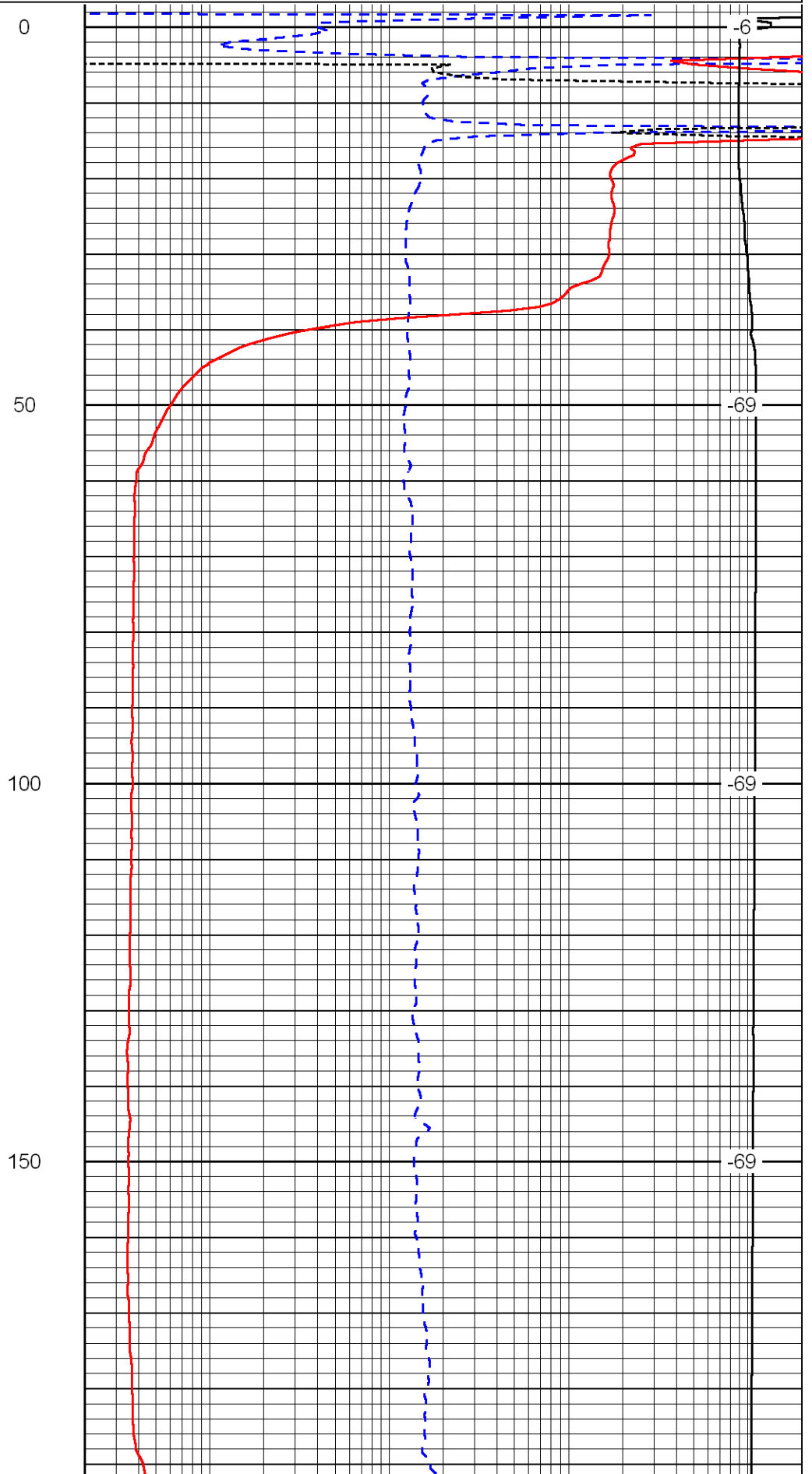
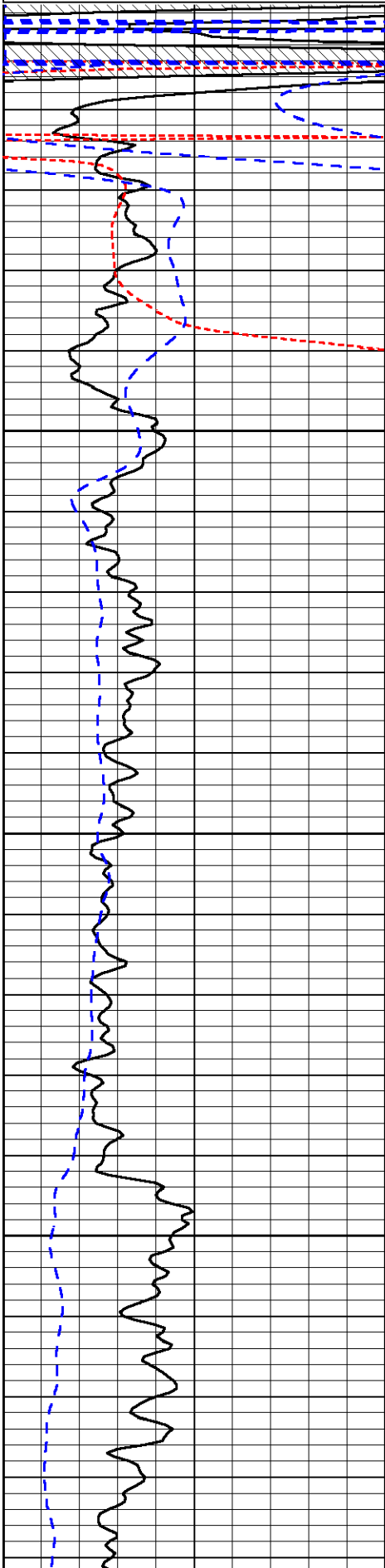
Database File: murfin sharp 1-3hd.db  
 Dataset Pathname: dil/murfstck  
 Presentation Format: dil  
 Dataset Creation: Sat Aug 14 13:44:16 2010  
 Charted by: Depth in Feet scaled 1:240

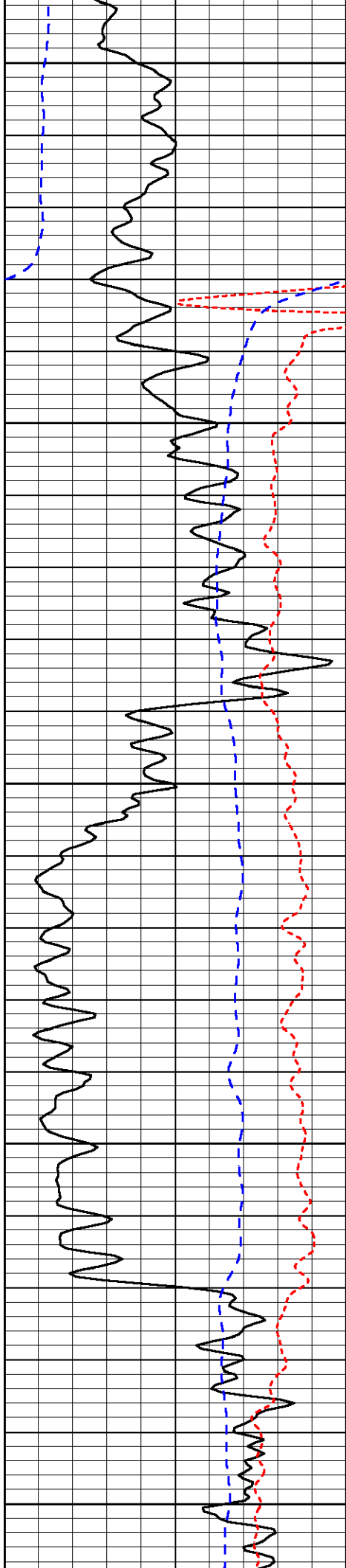


0	Gamma Ray	150
-160	RXO/RT	40
-200	SP	0

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

LSPD





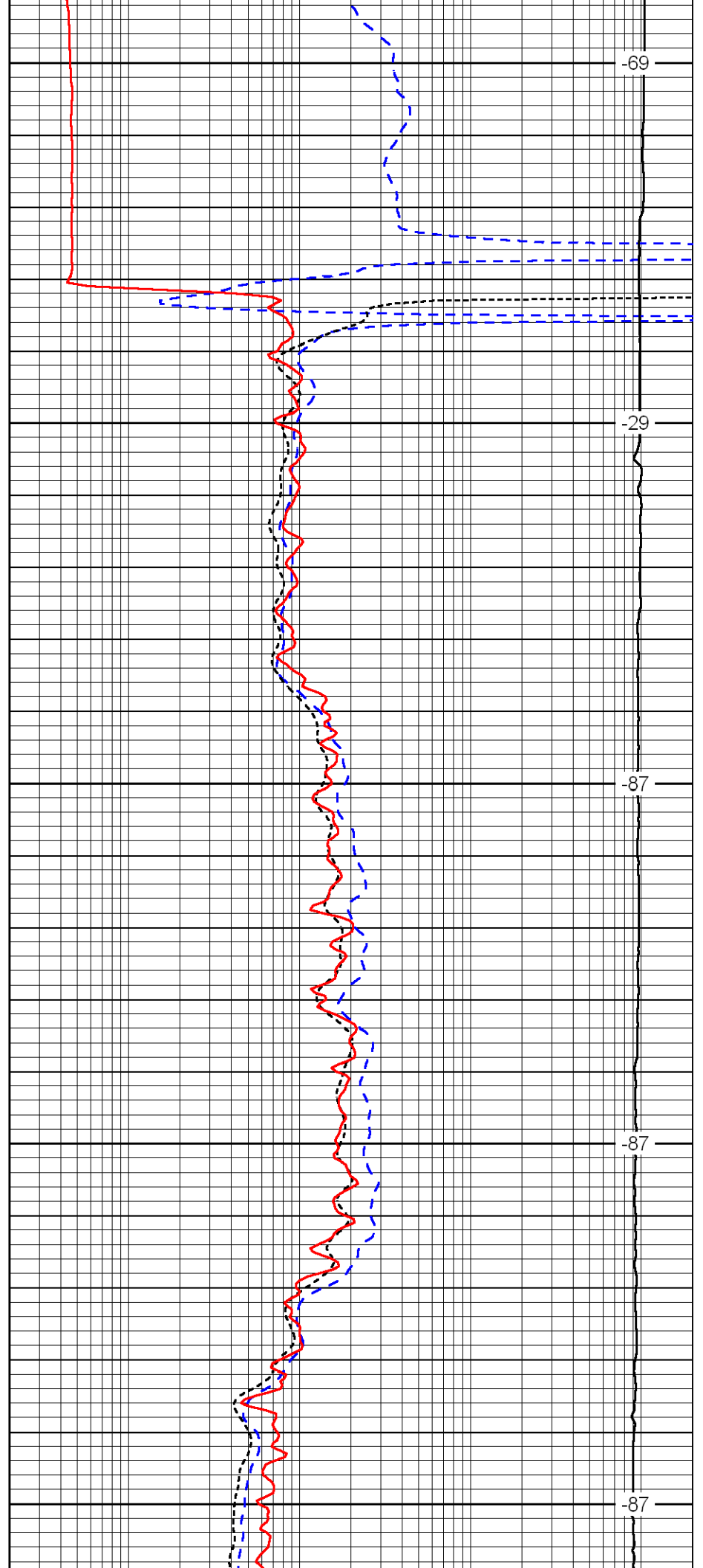
200

250

300

350

400



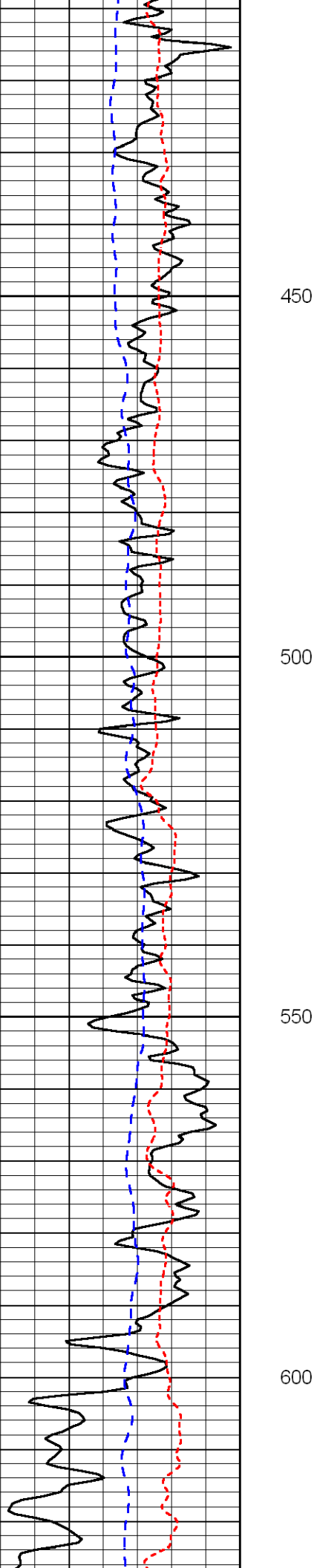
-69

-29

-87

-87

-87

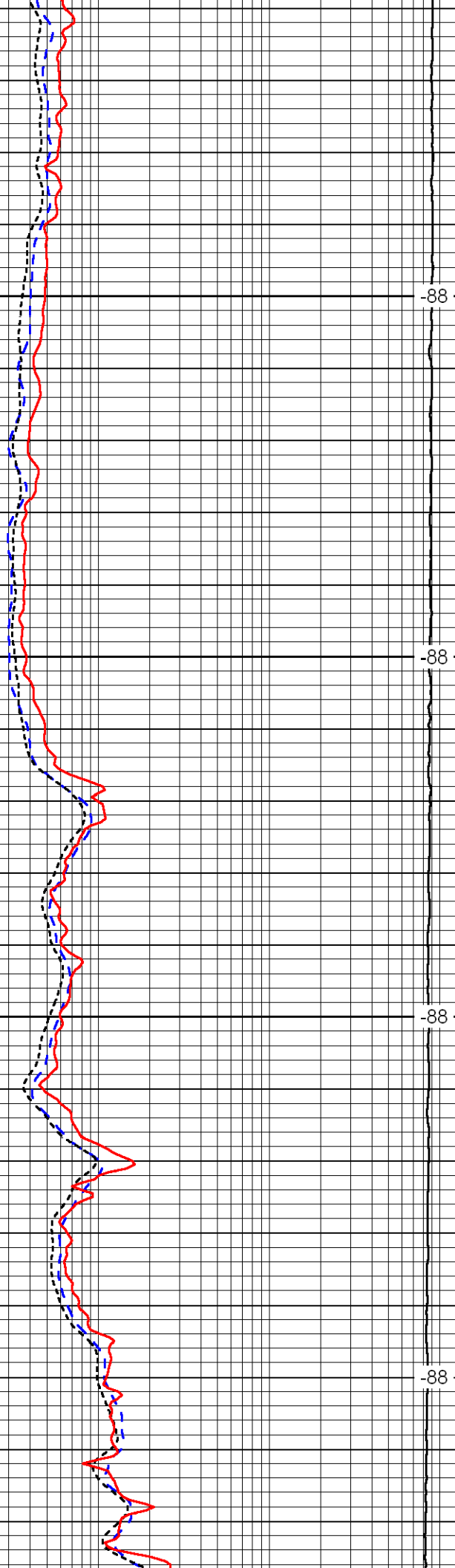


450

500

550

600

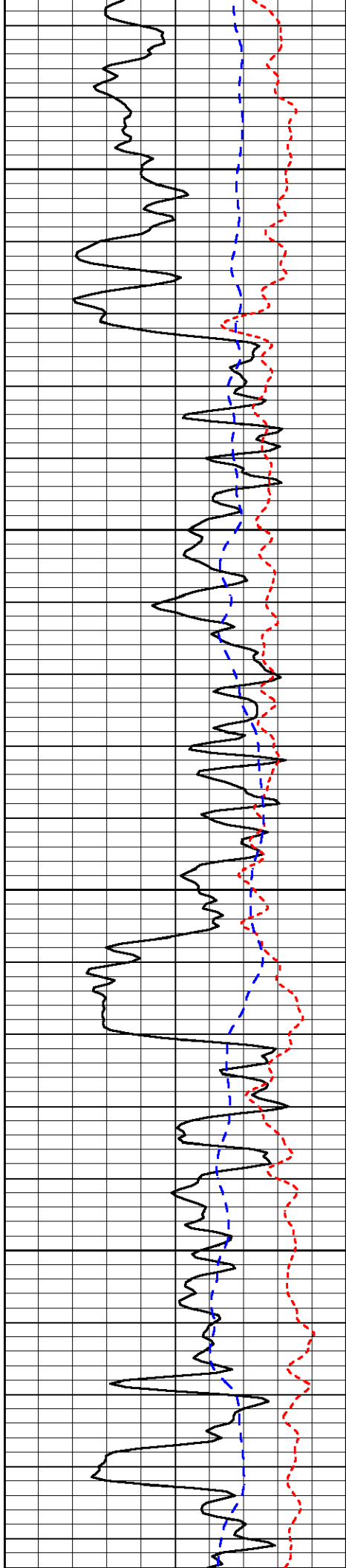


-88

-88

-88

-88

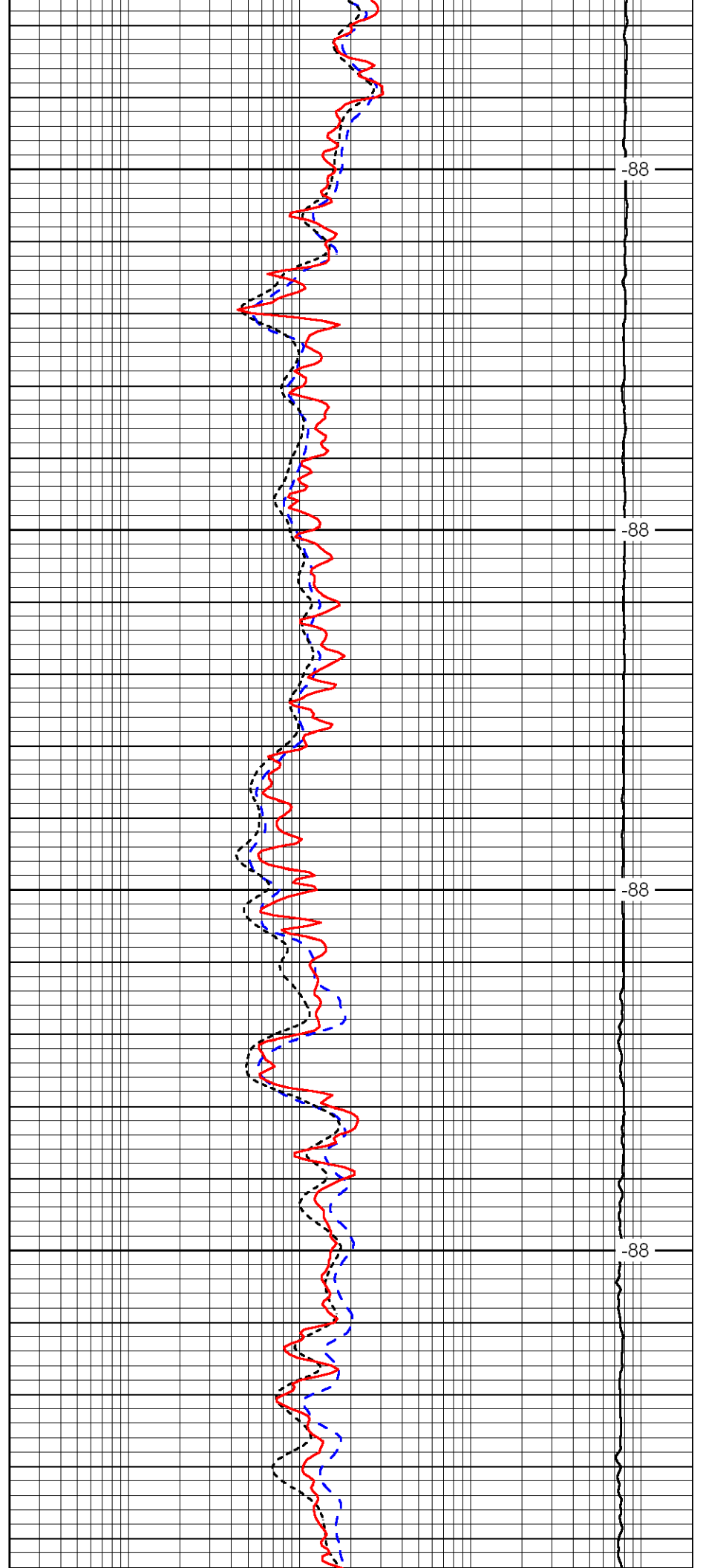


650

700

750

800

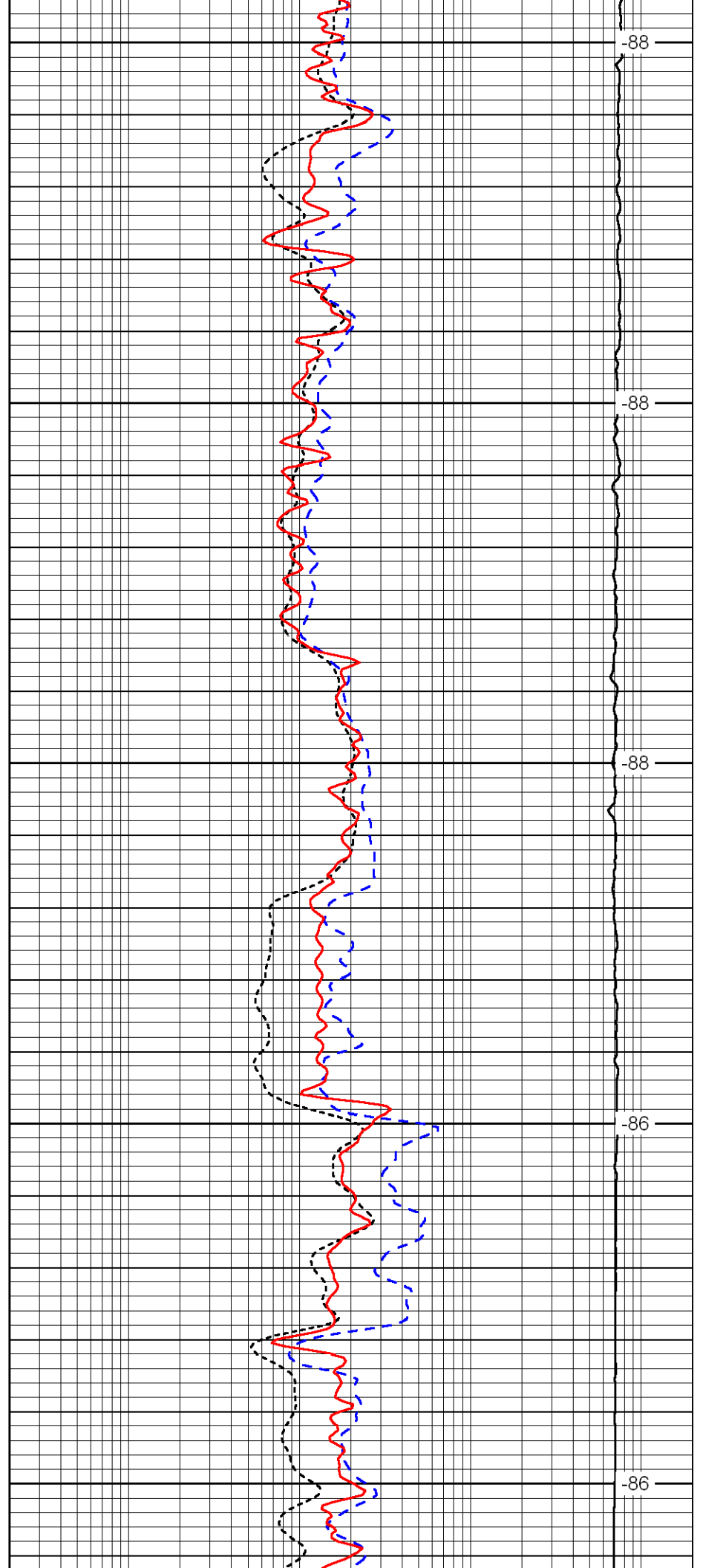
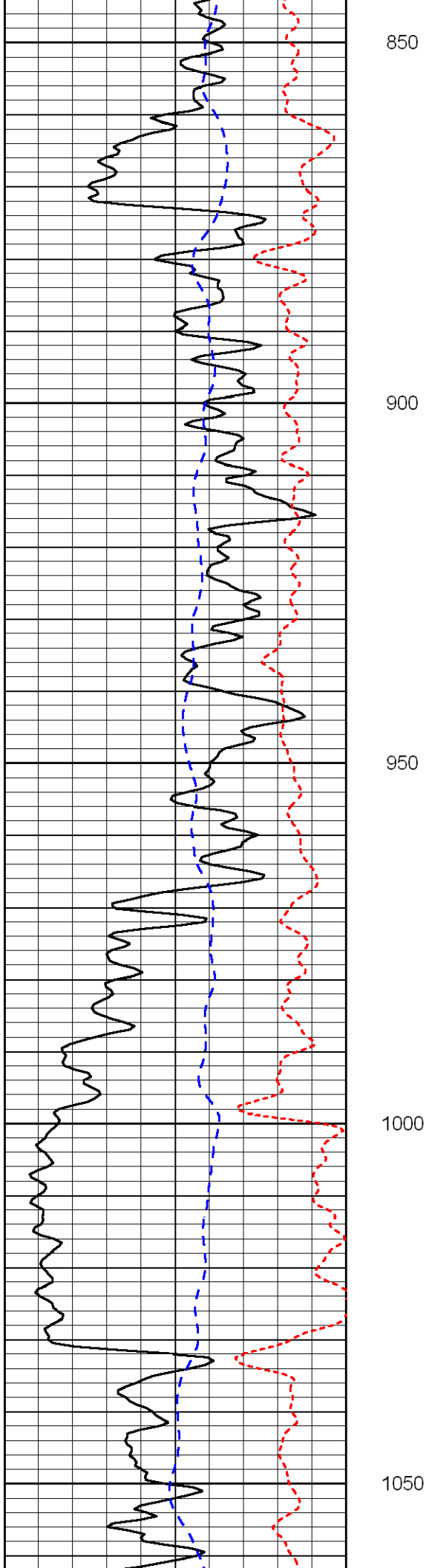


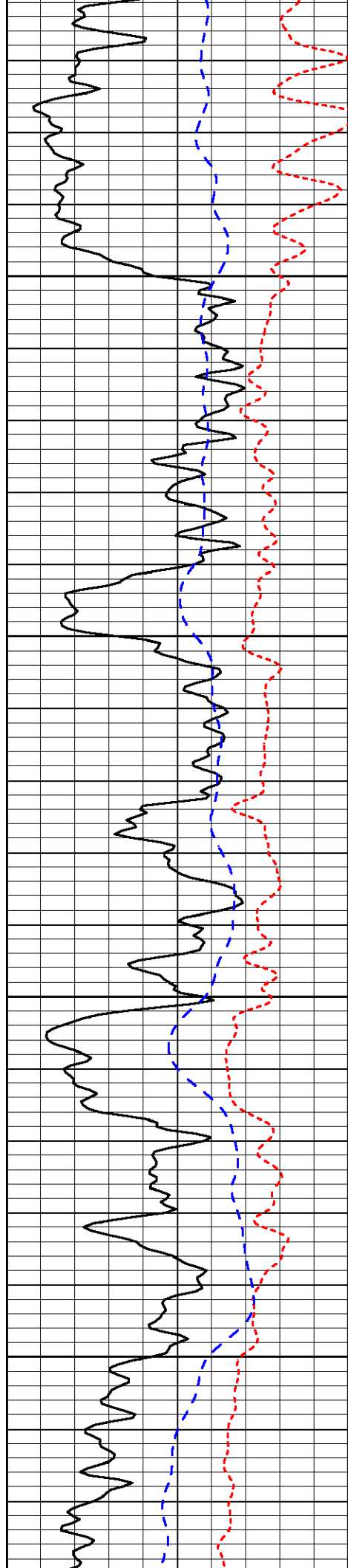
-88

-88

-88

-88



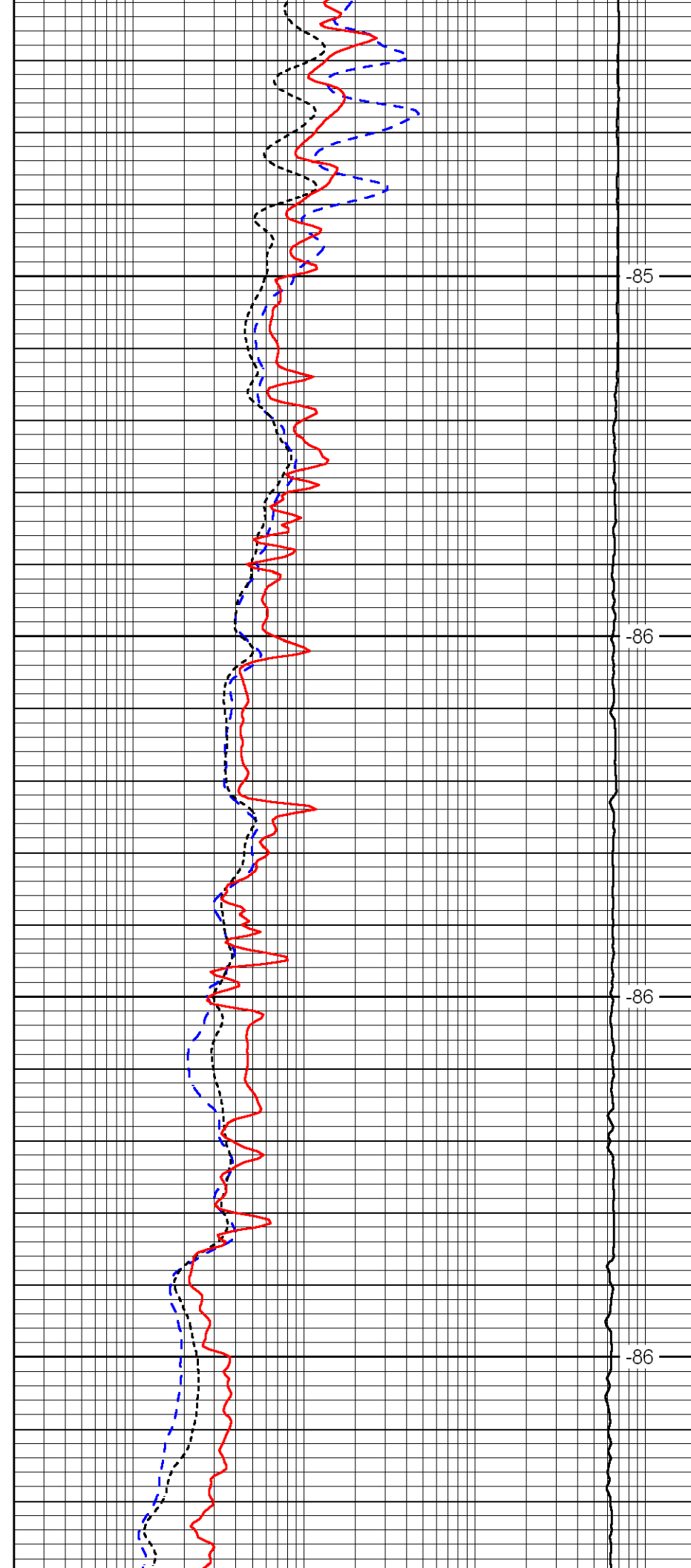


1100

1150

1200

1250

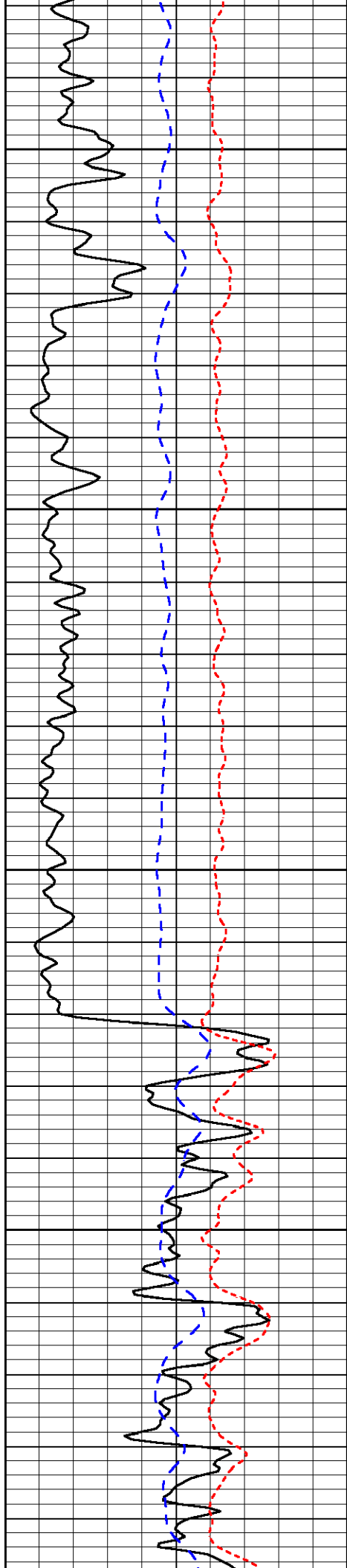


-85

-86

-86

-86

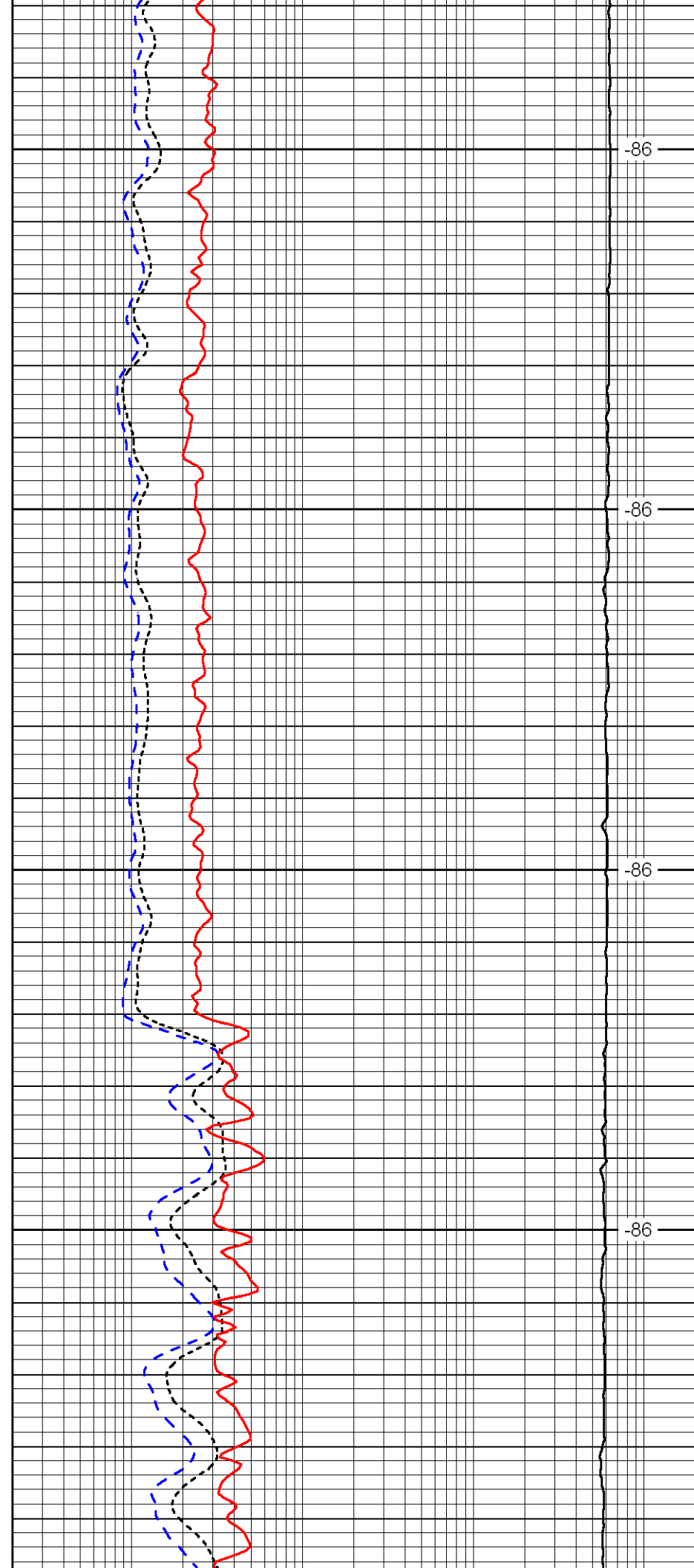


1300

1350

1400

1450

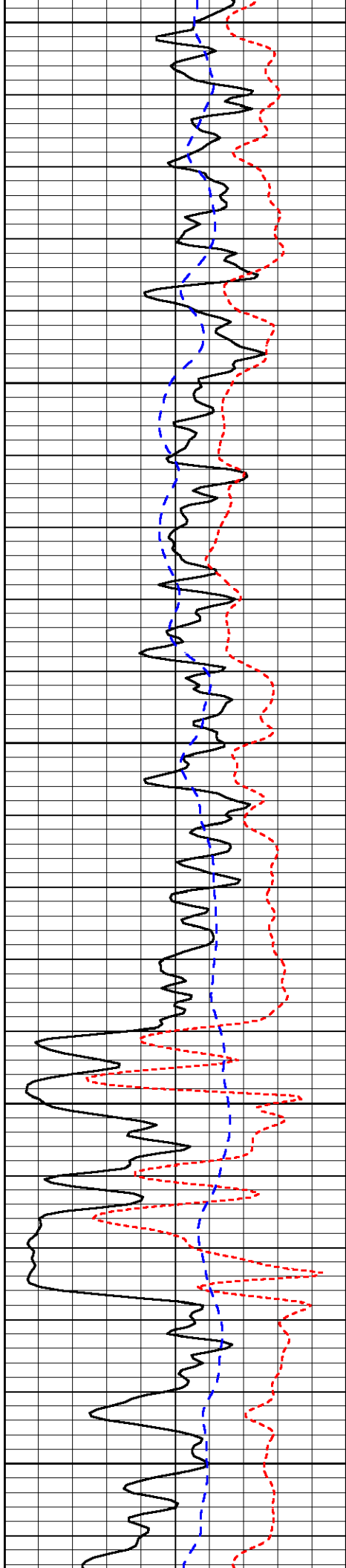


-86

-86

-86

-86



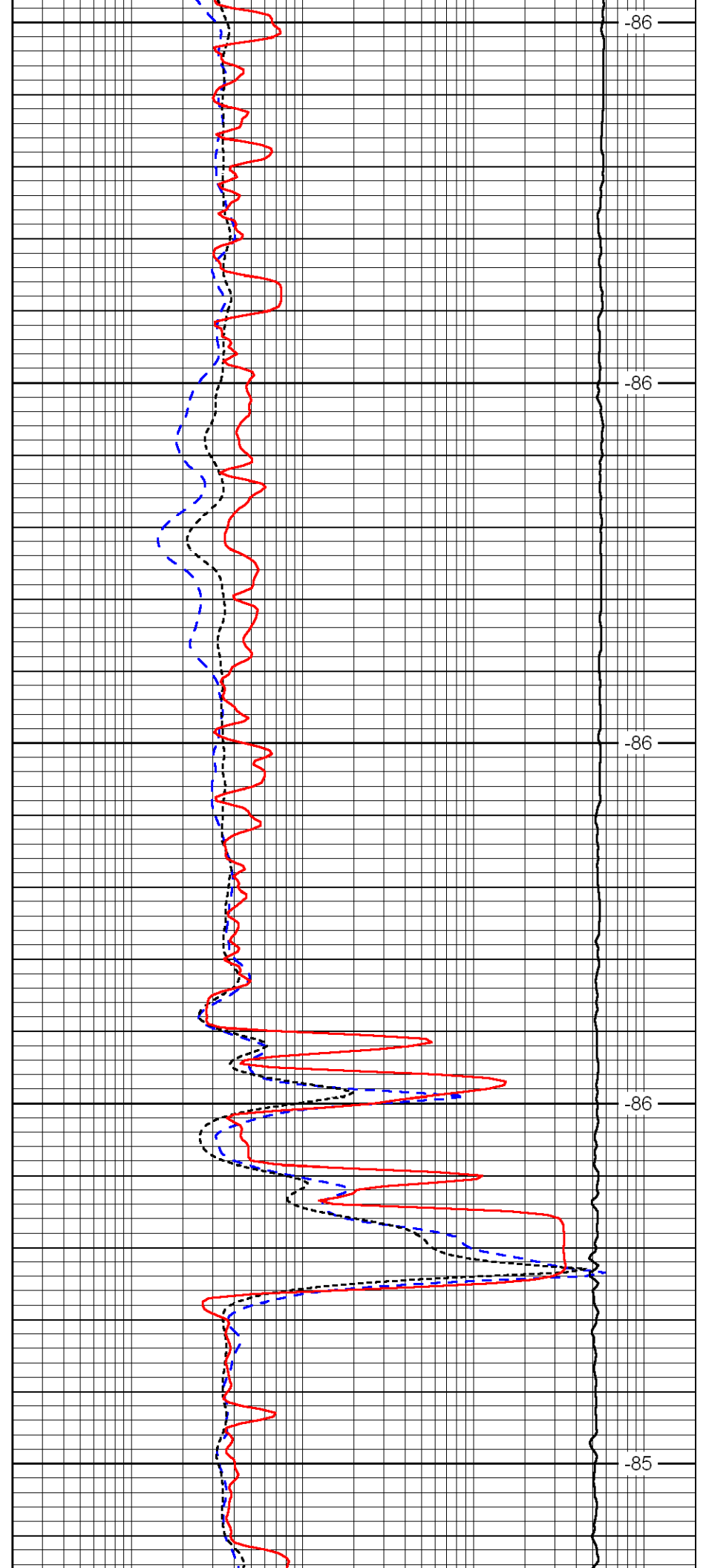
1500

1550

1600

1650

1700



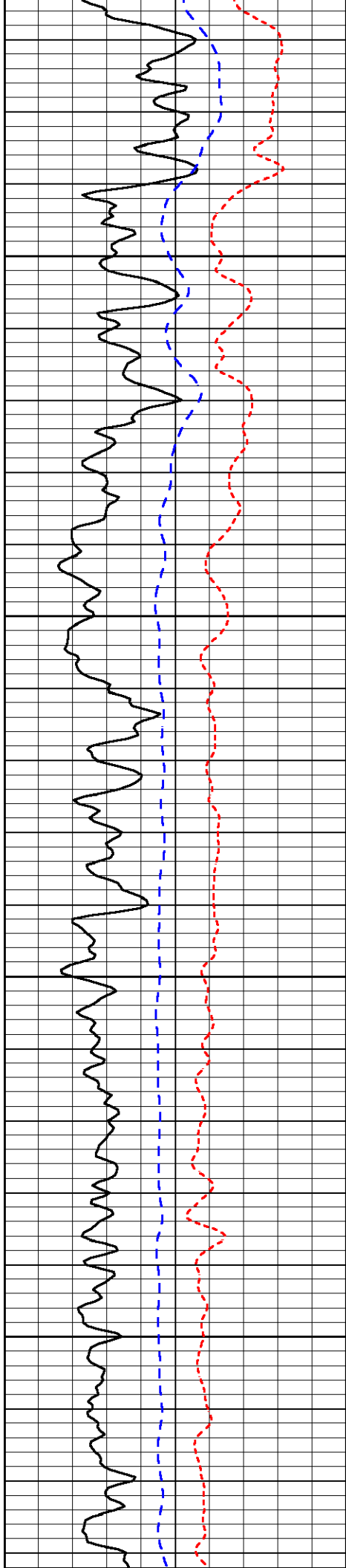
-86

-86

-86

-86

-85

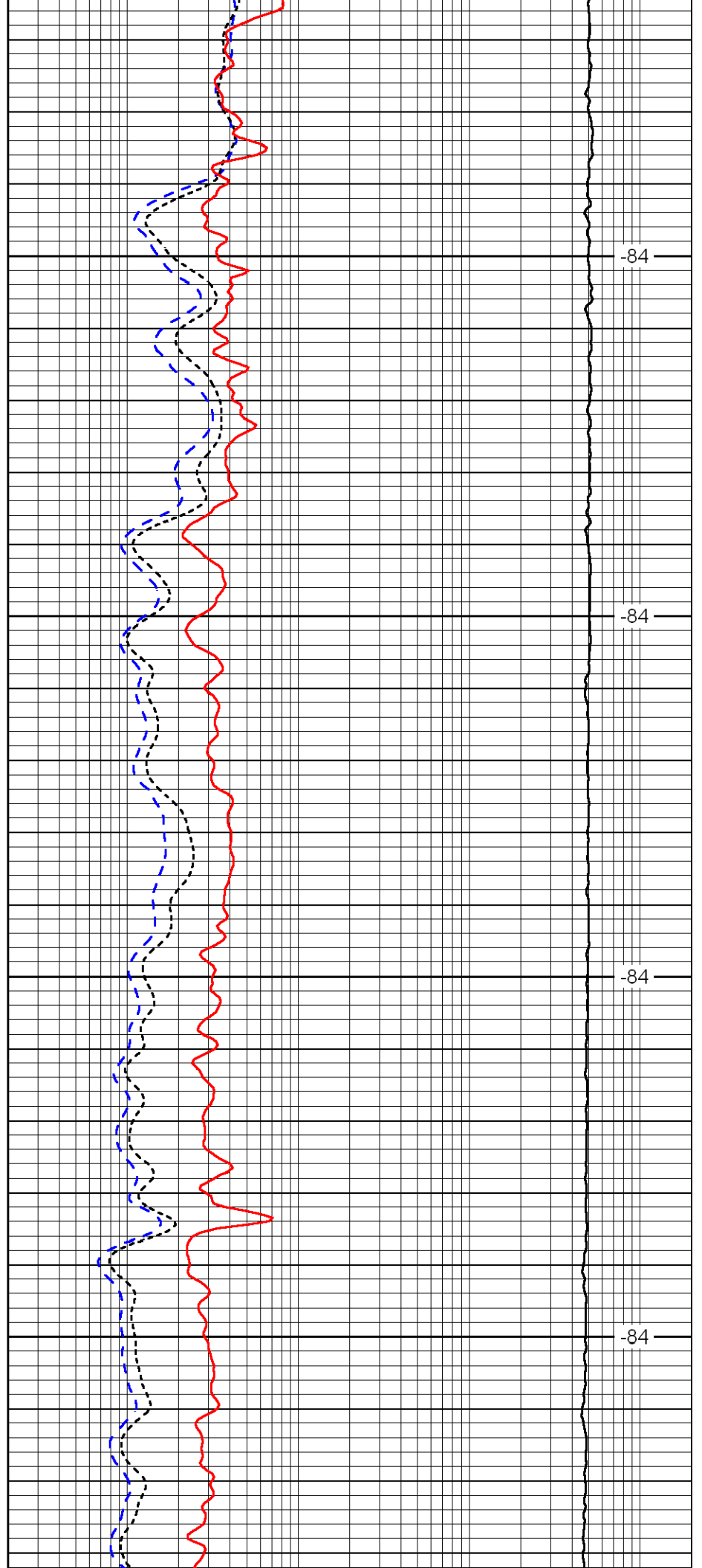


1750

1800

1850

1900

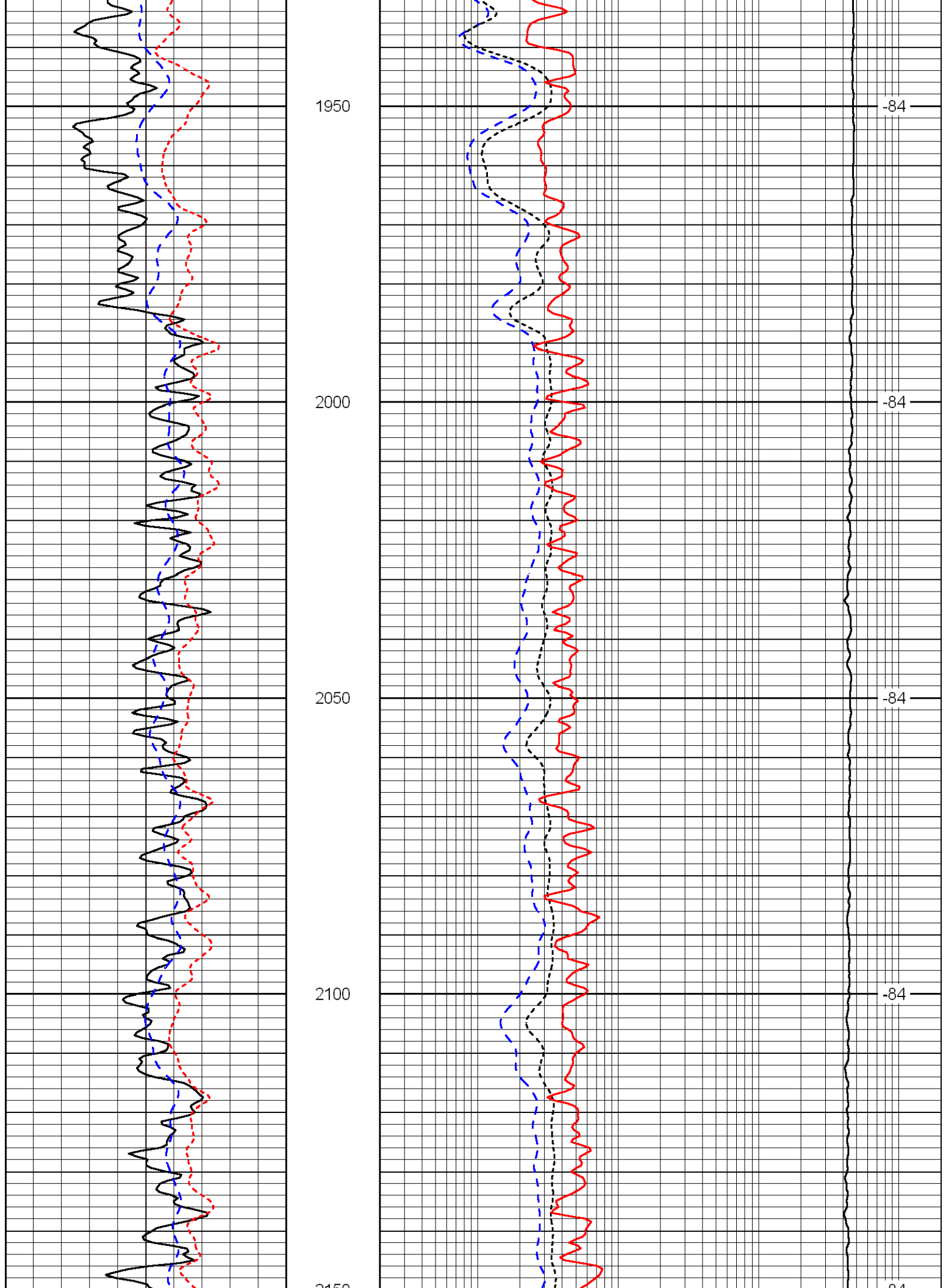


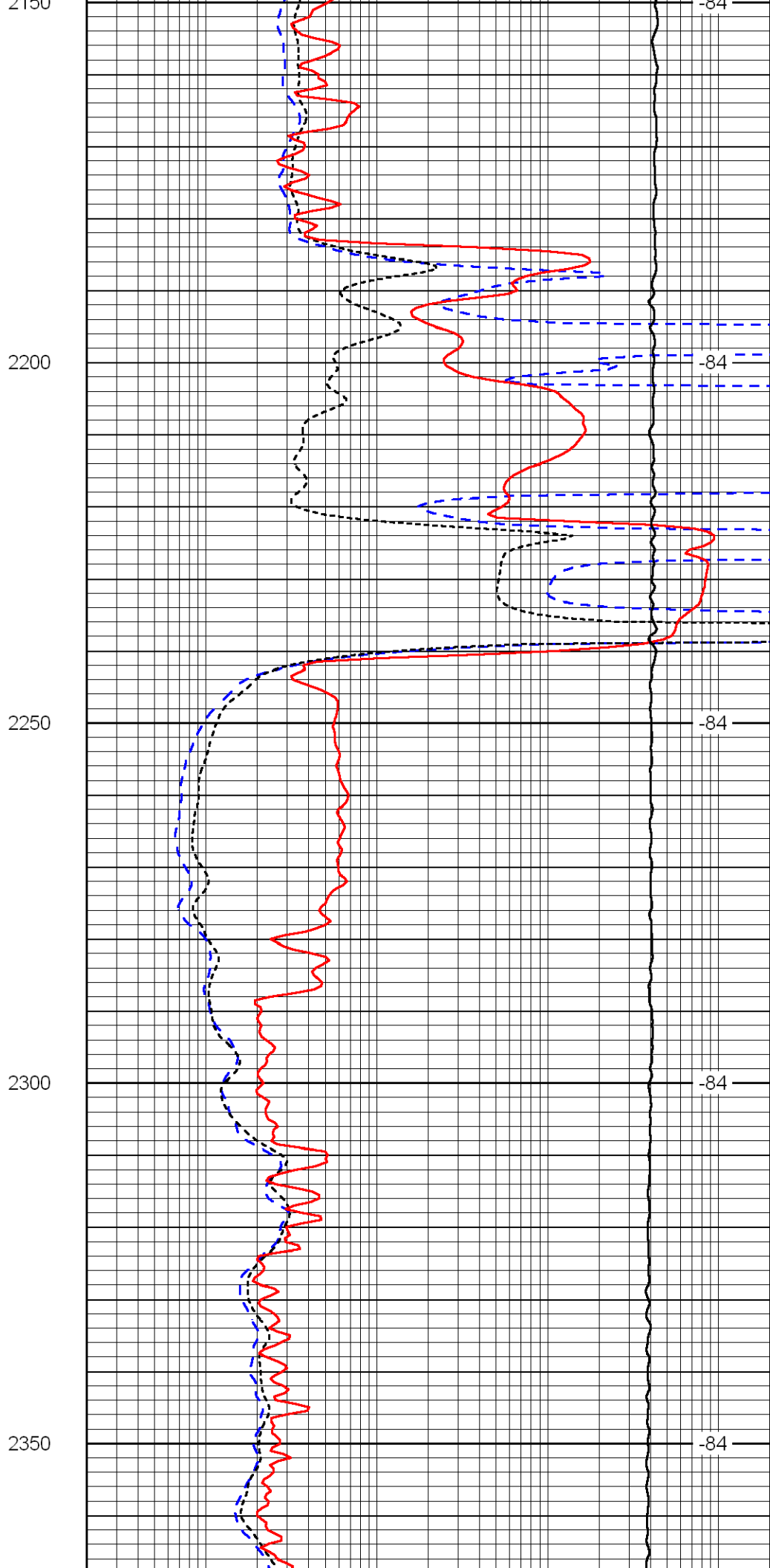
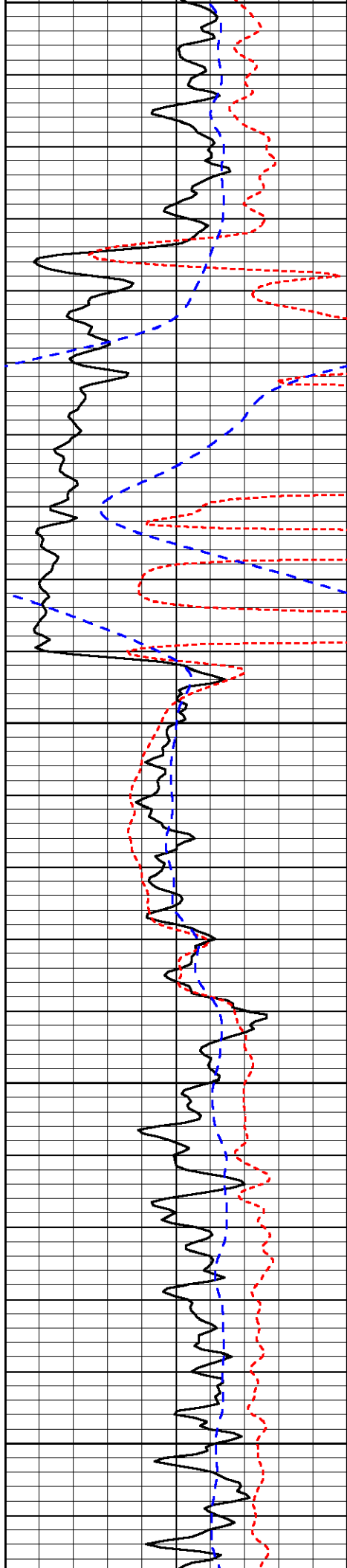
-84

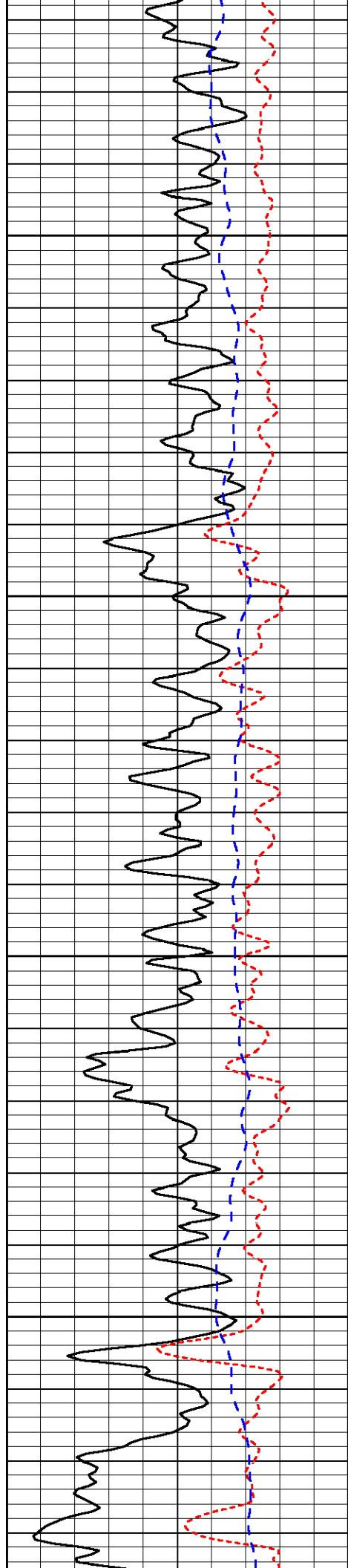
-84

-84

-84





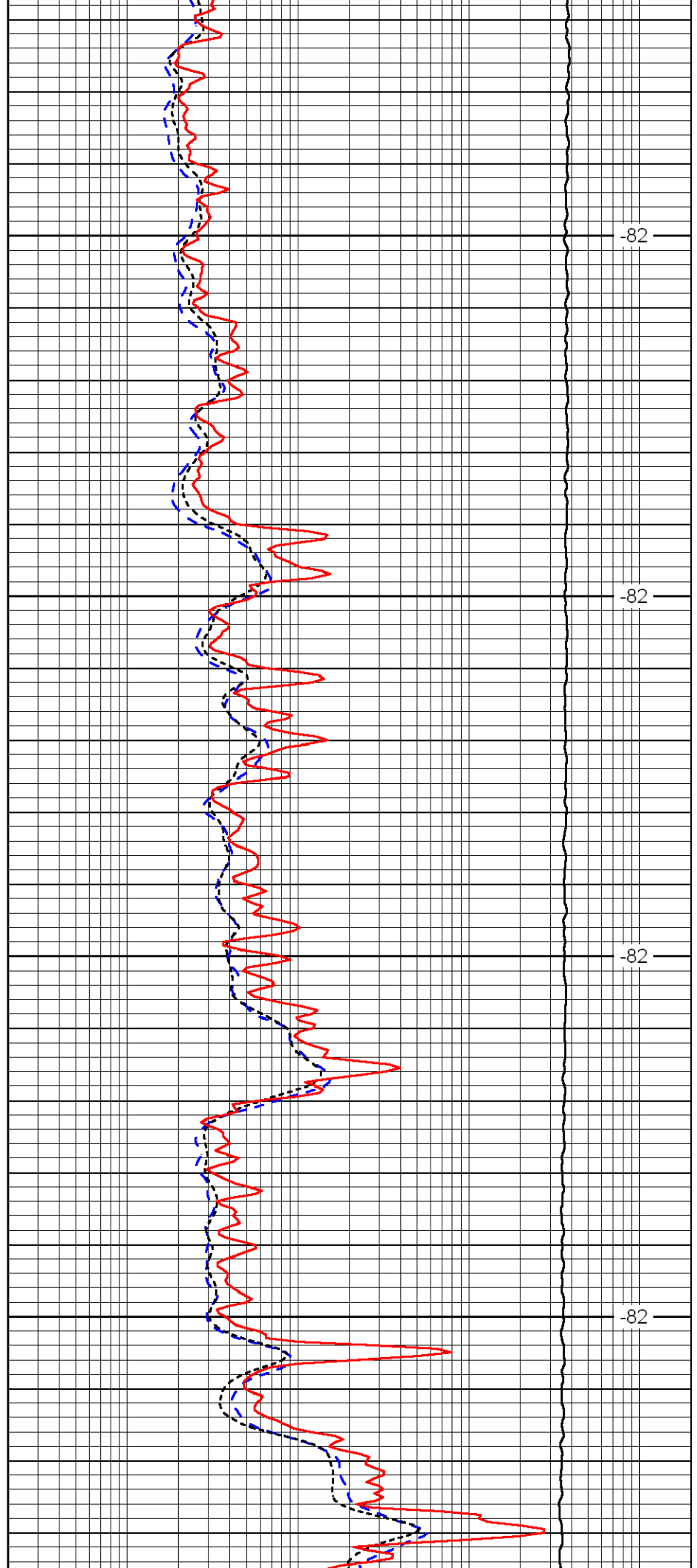


2400

2450

2500

2550

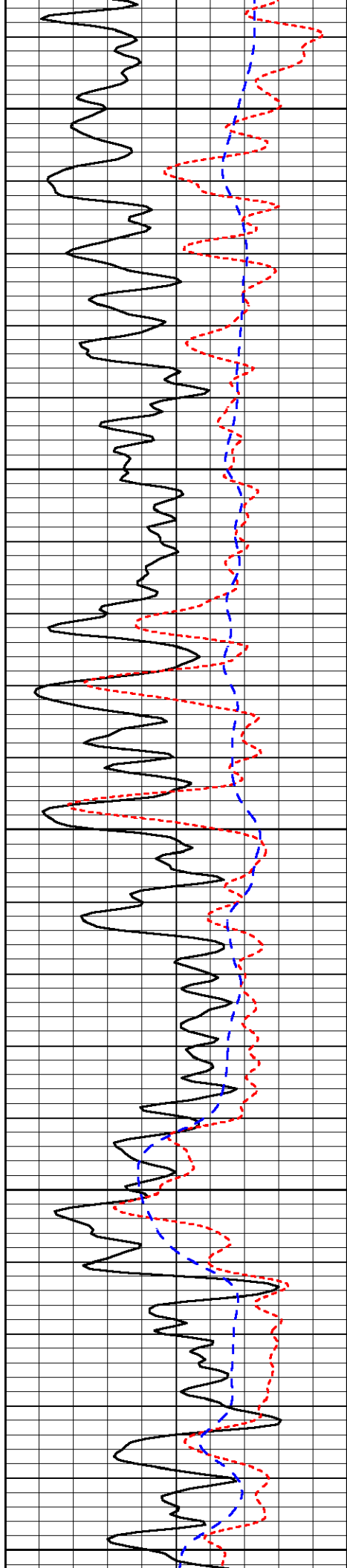


-82

-82

-82

-82



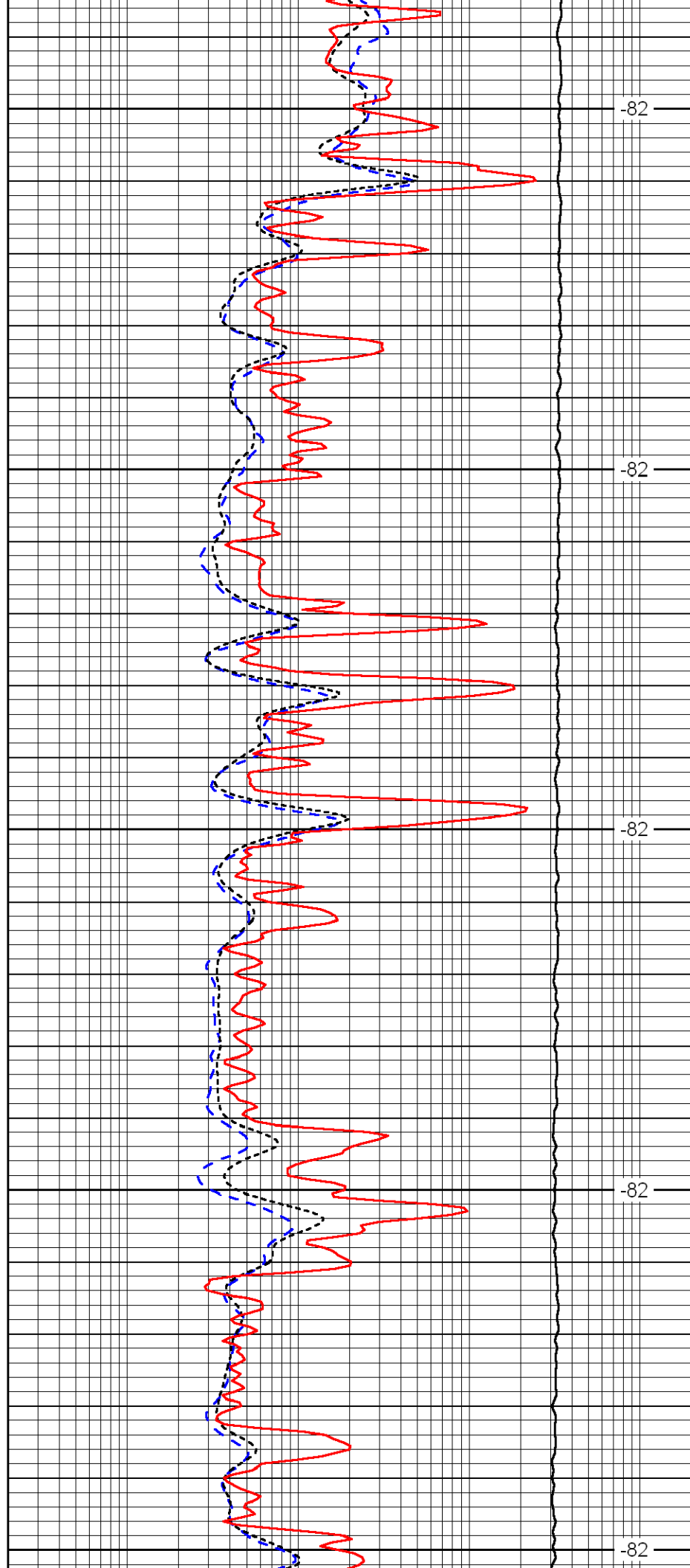
2600

2650

2700

2750

2800



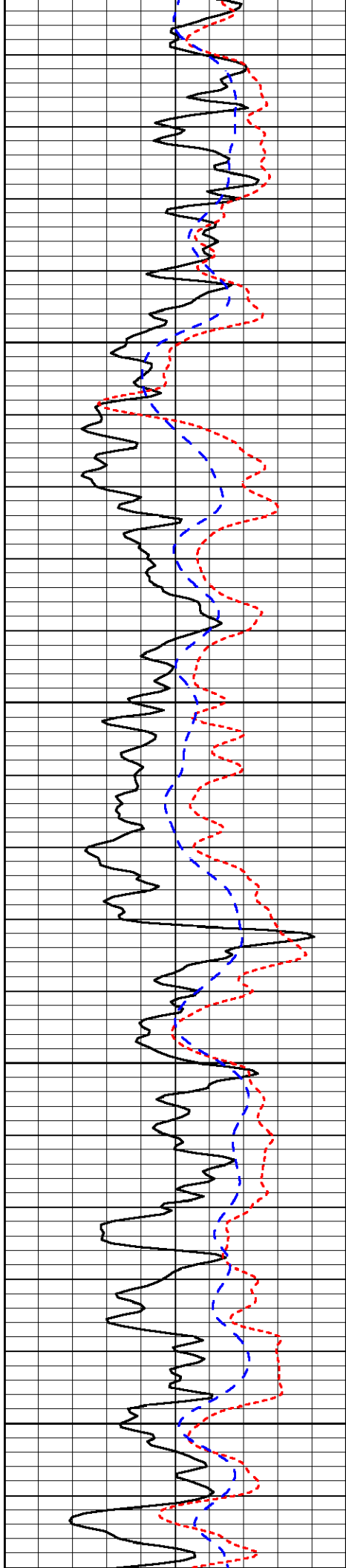
-82

-82

-82

-82

-82

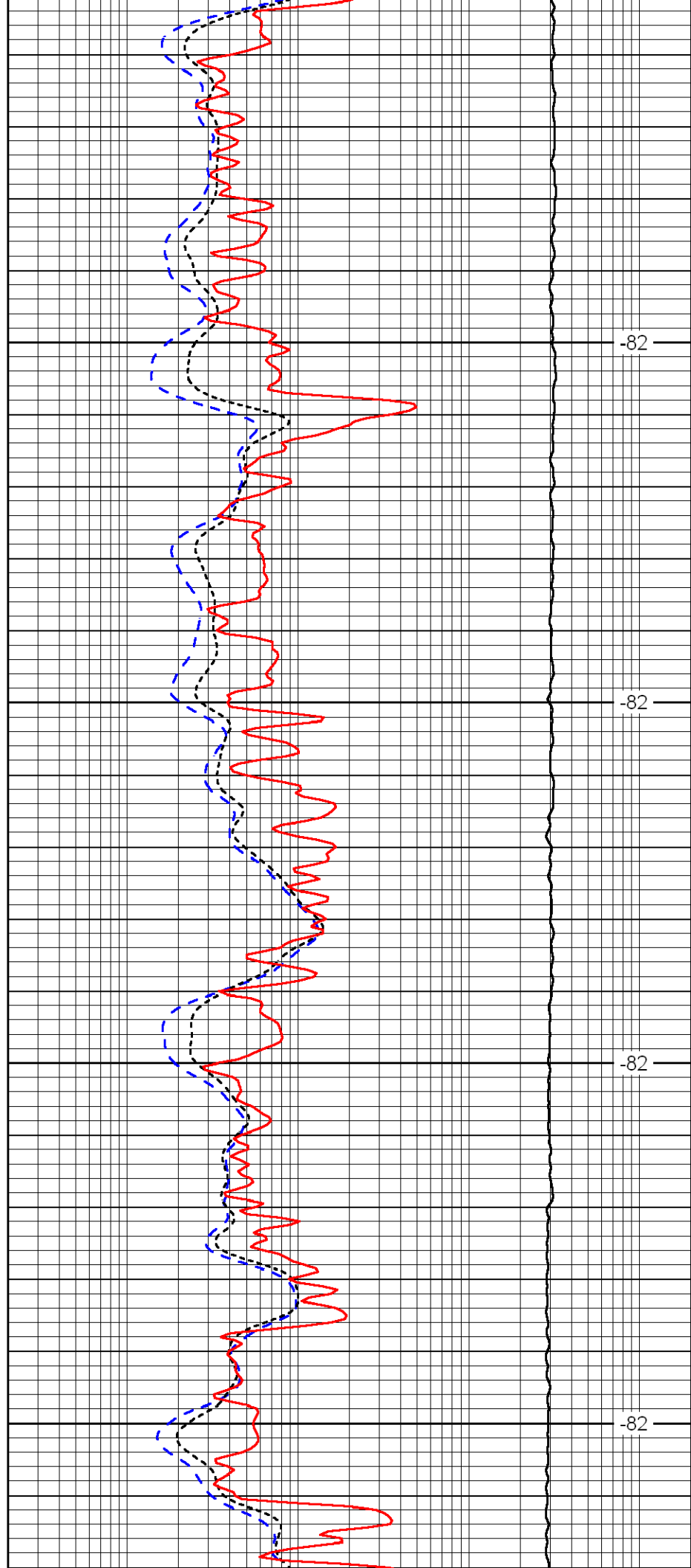


2850

2900

2950

3000

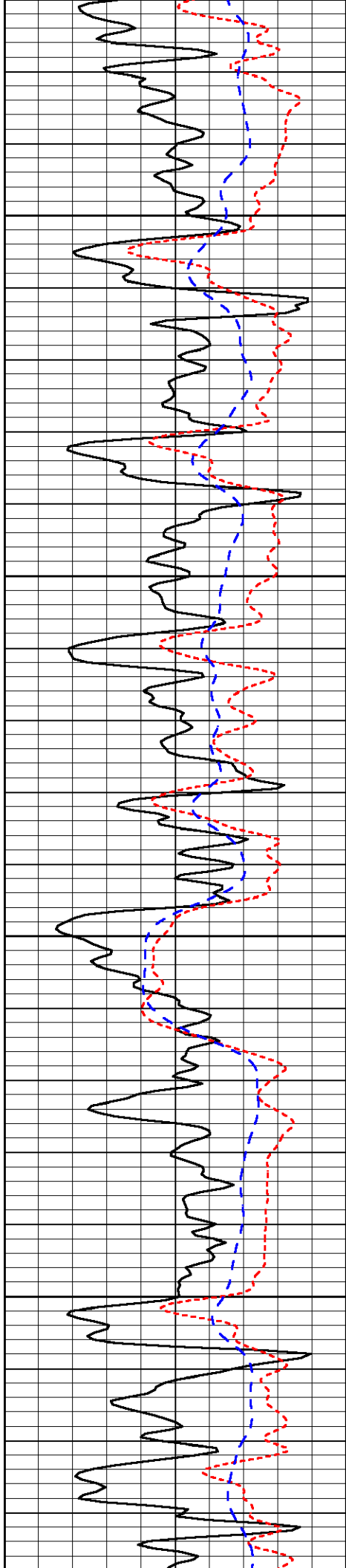


-82

-82

-82

-82

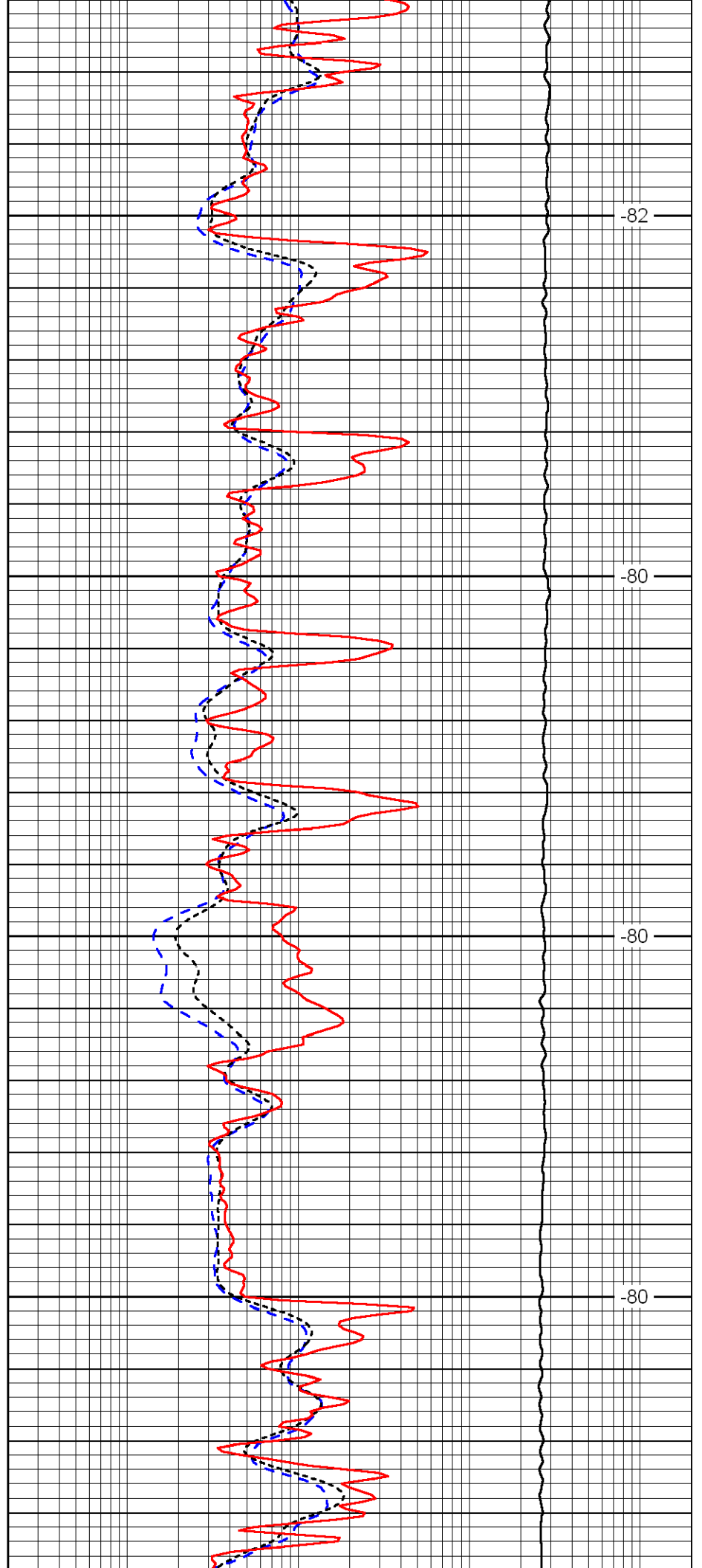


3050

3100

3150

3200

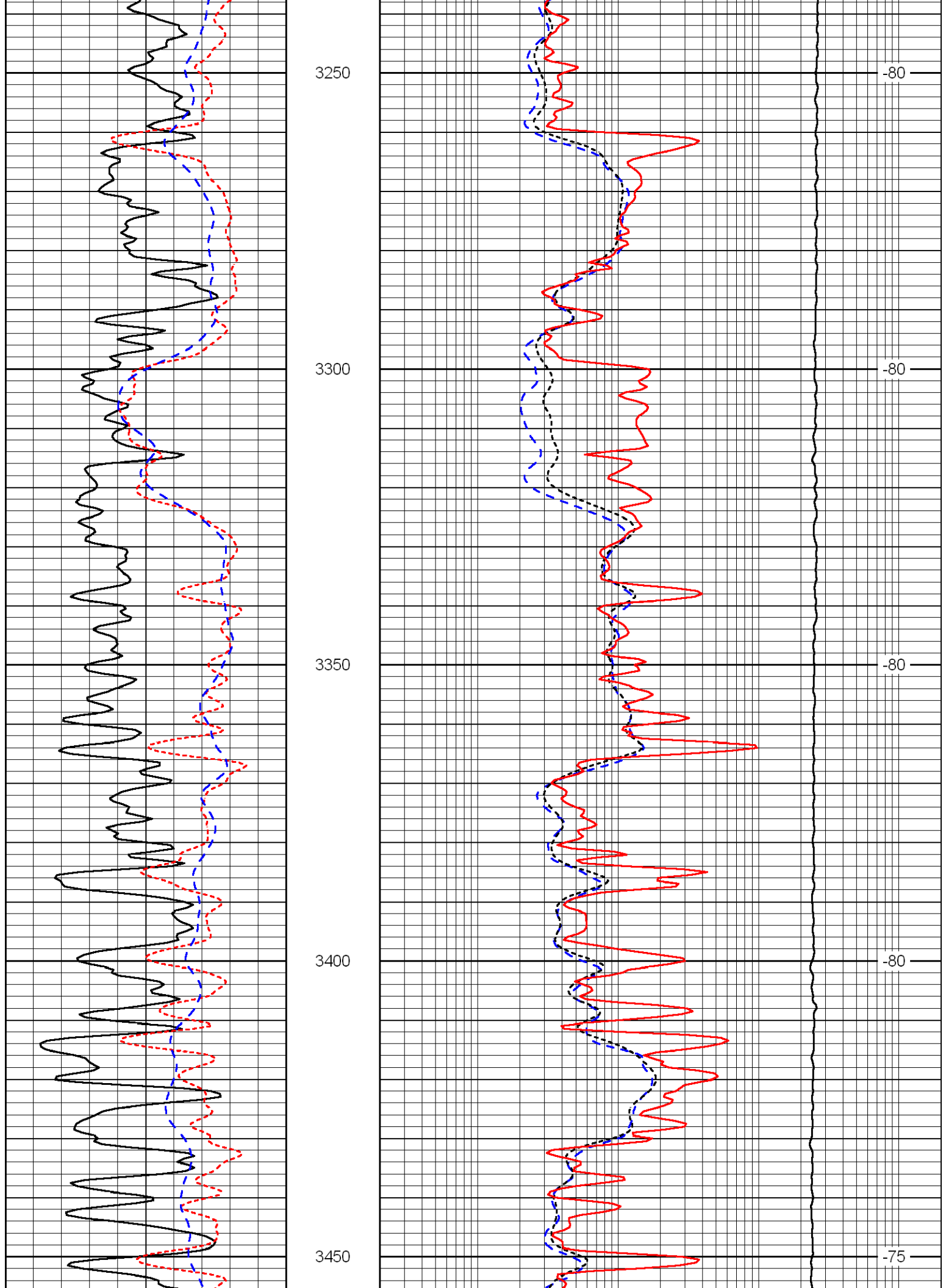


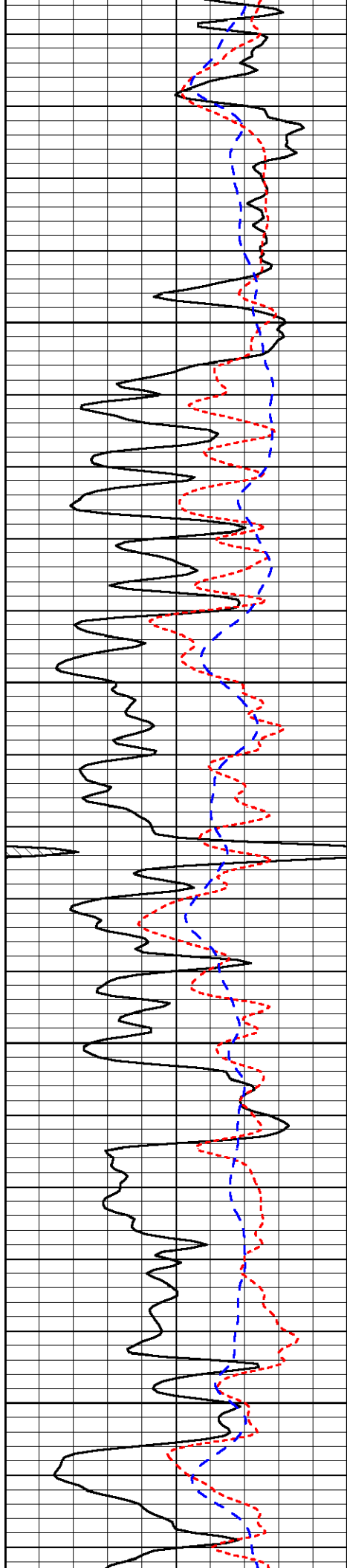
-82

-80

-80

-80



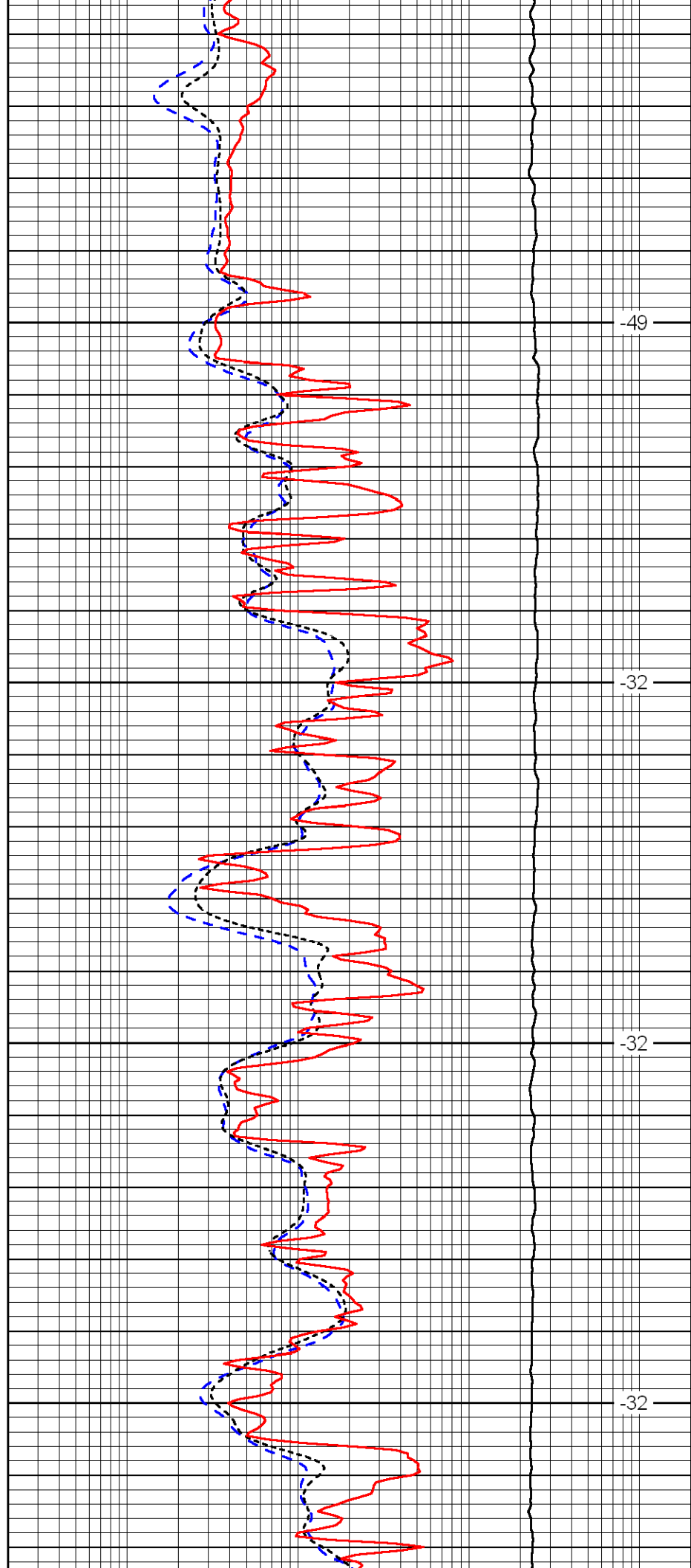


3500

3550

3600

3650

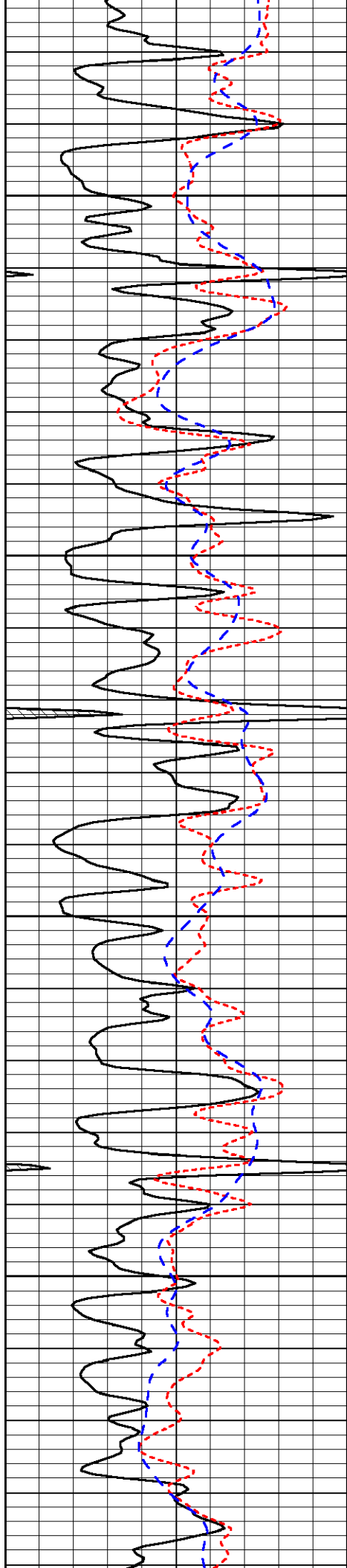


-49

-32

-32

-32

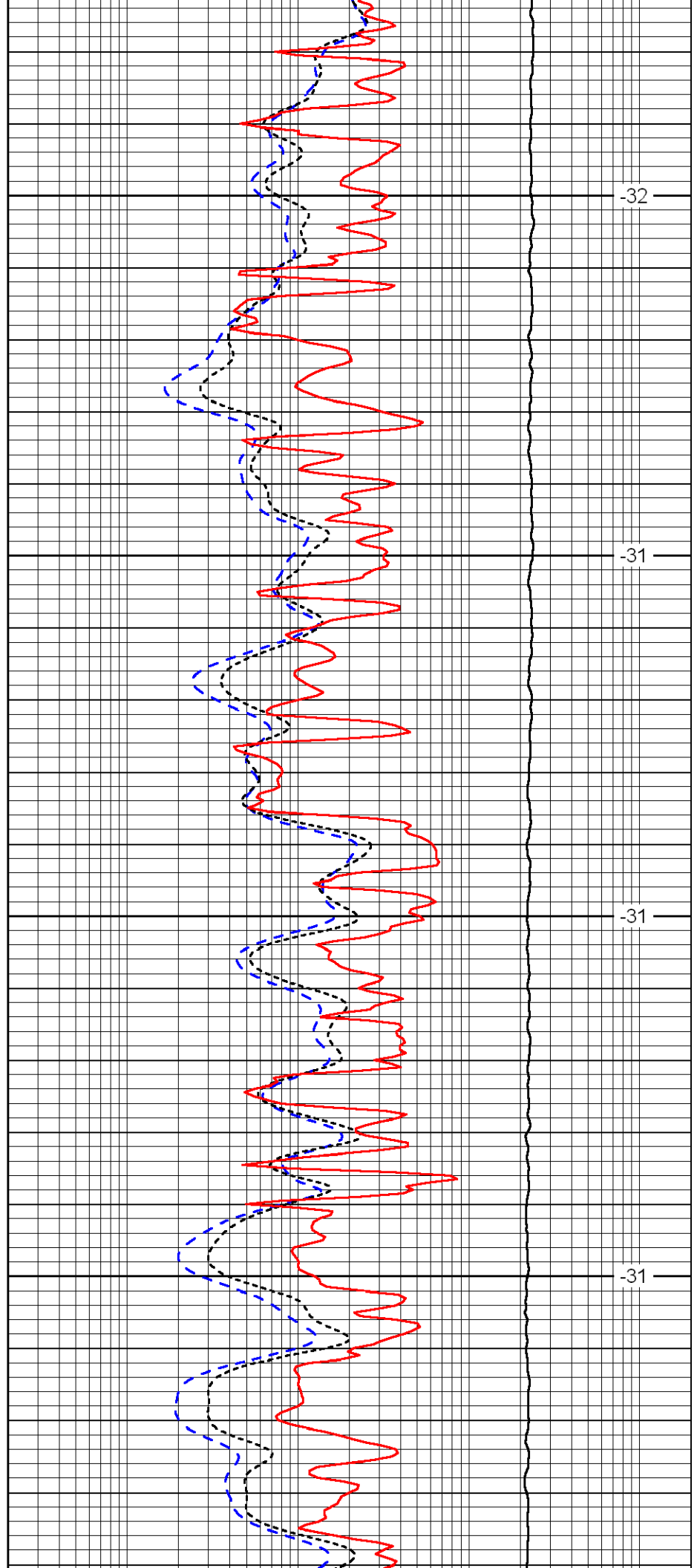


3700

3750

3800

3850

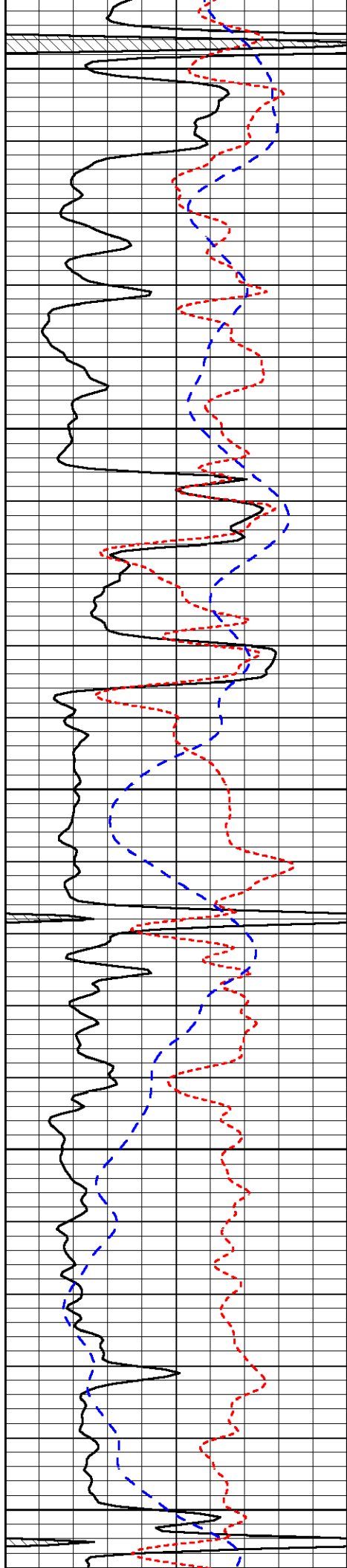


-32

-31

-31

-31



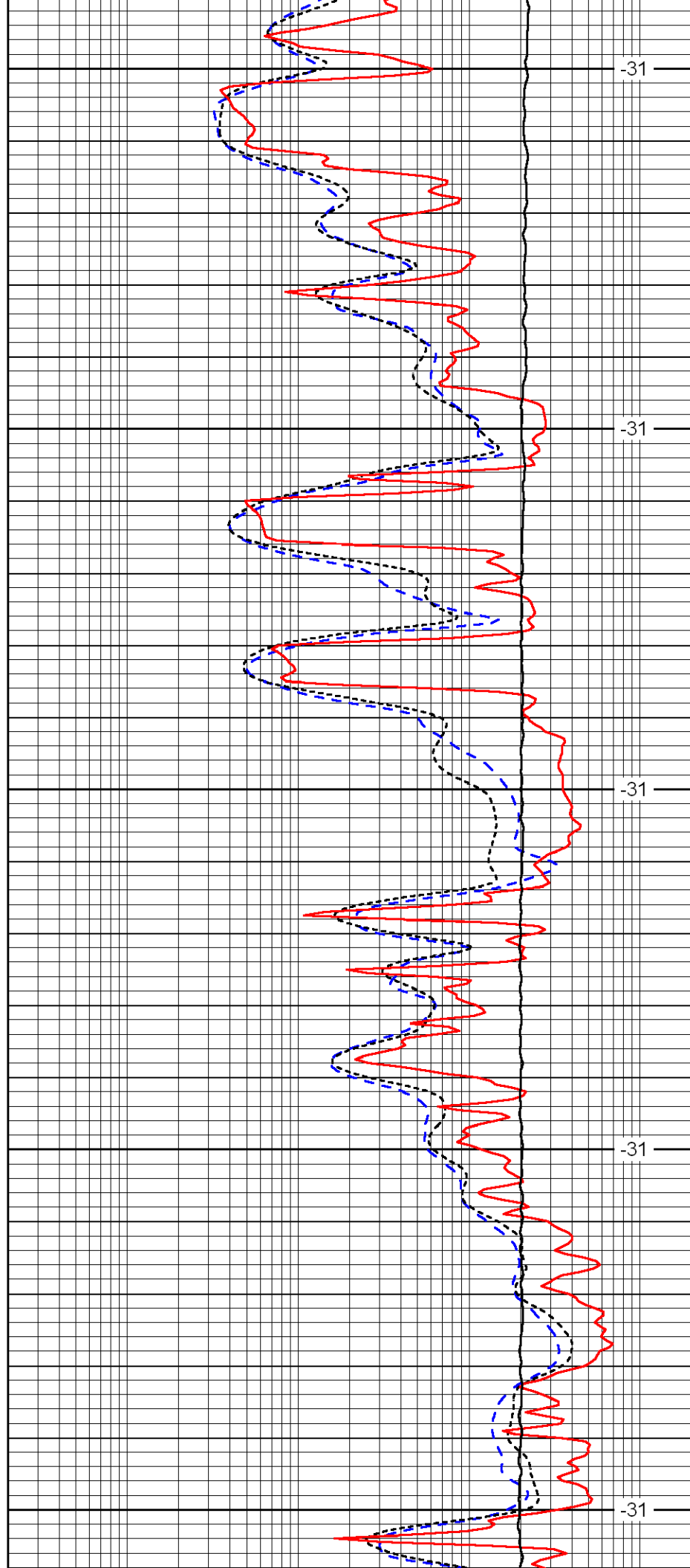
3900

3950

4000

4050

4100



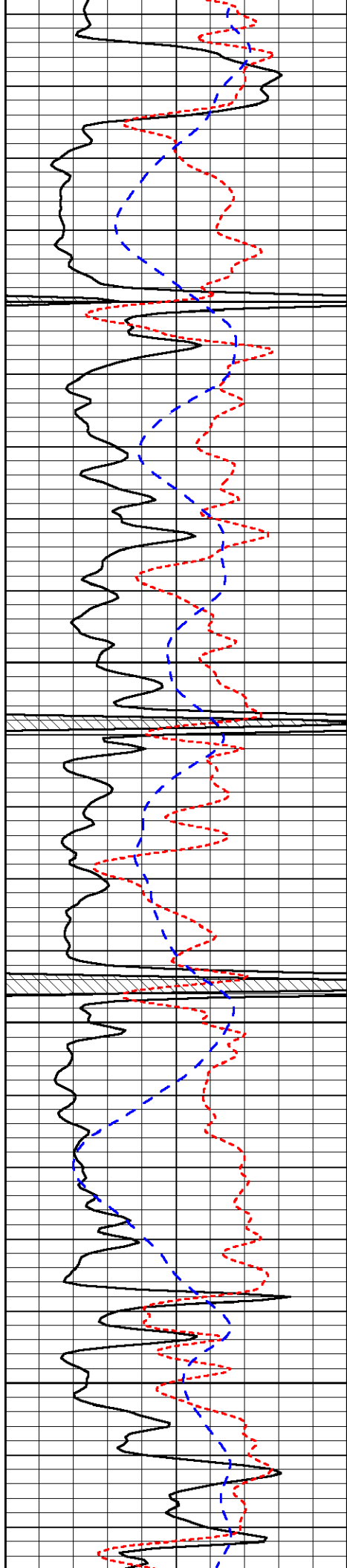
-31

-31

-31

-31

-31

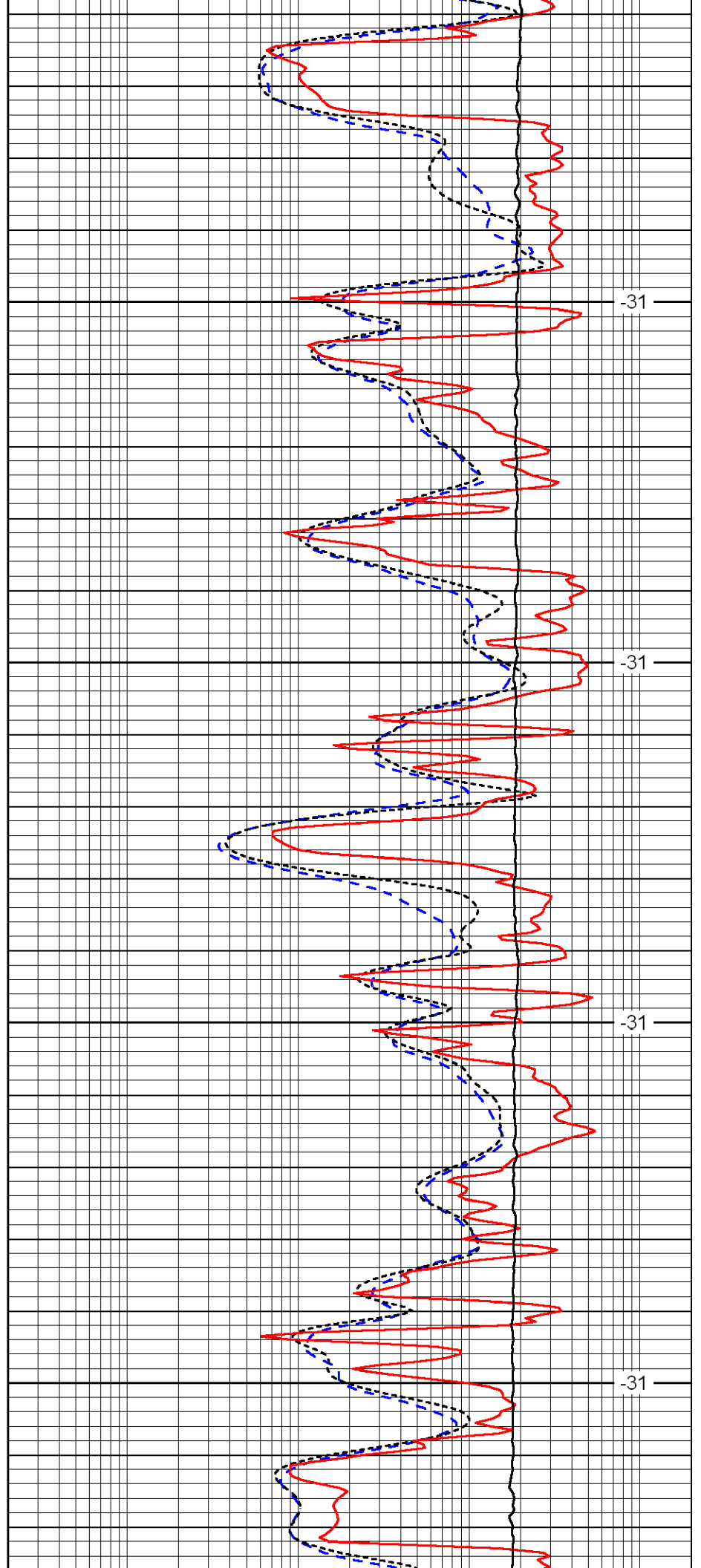


4150

4200

4250

4300

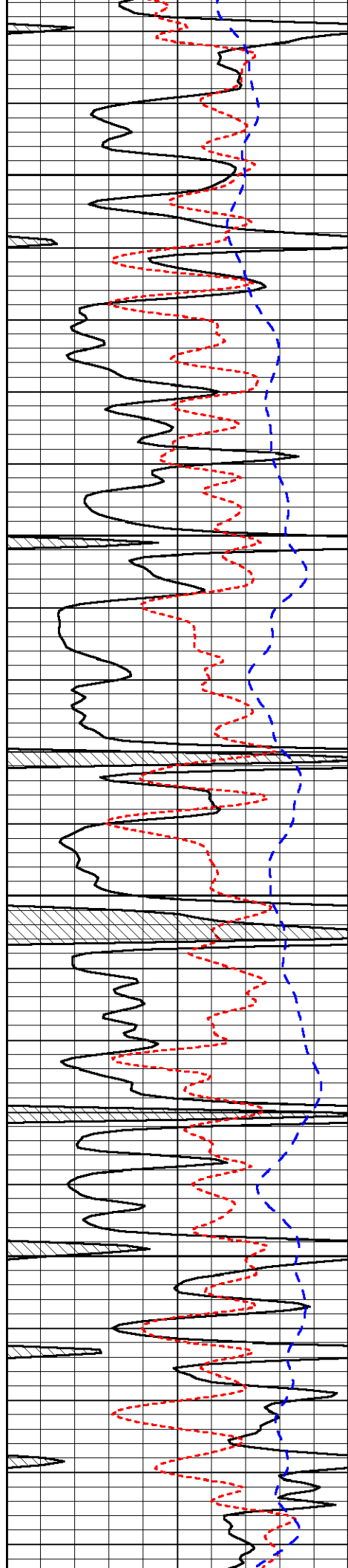


-31

-31

-31

-31

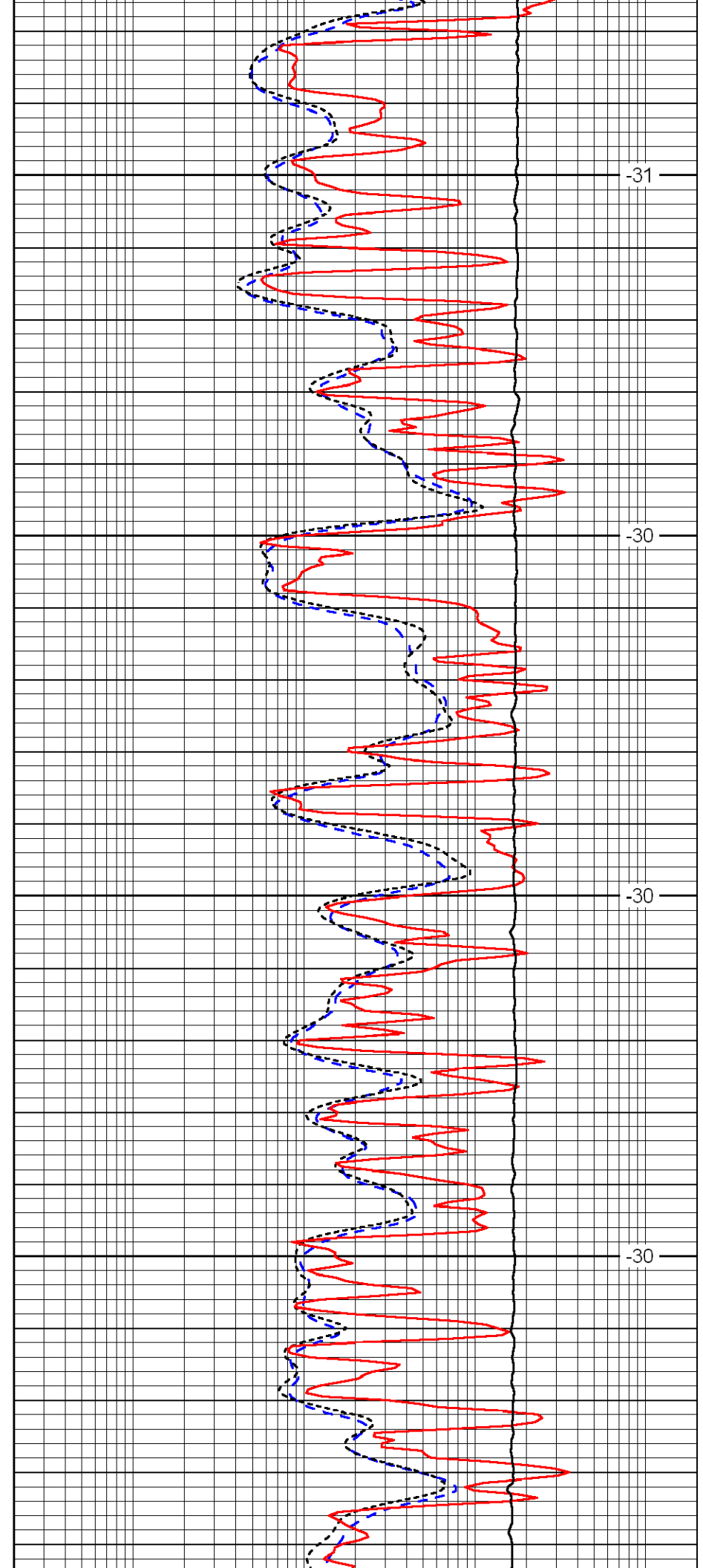


4350

4400

4450

4500

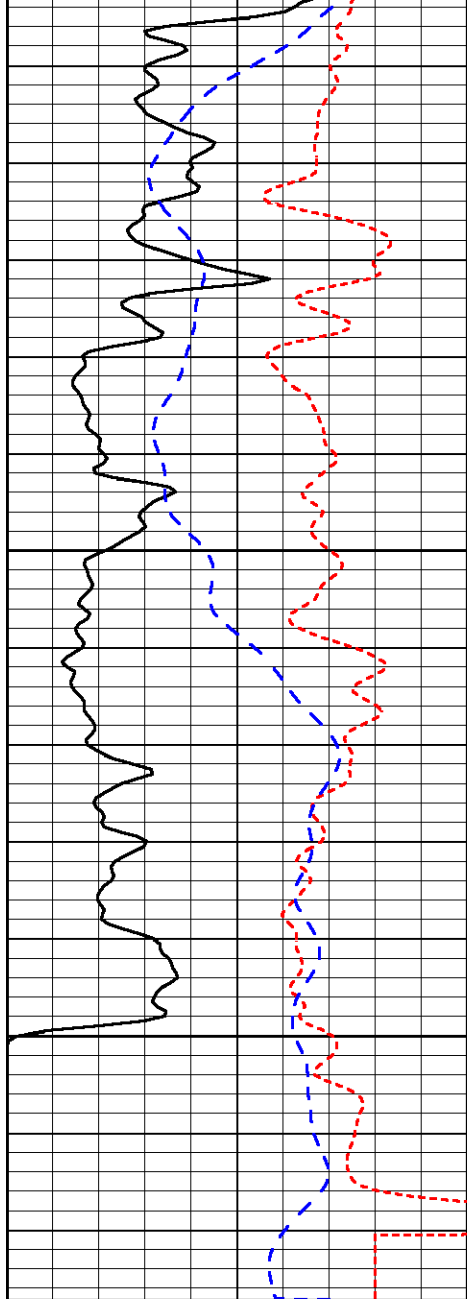


-31

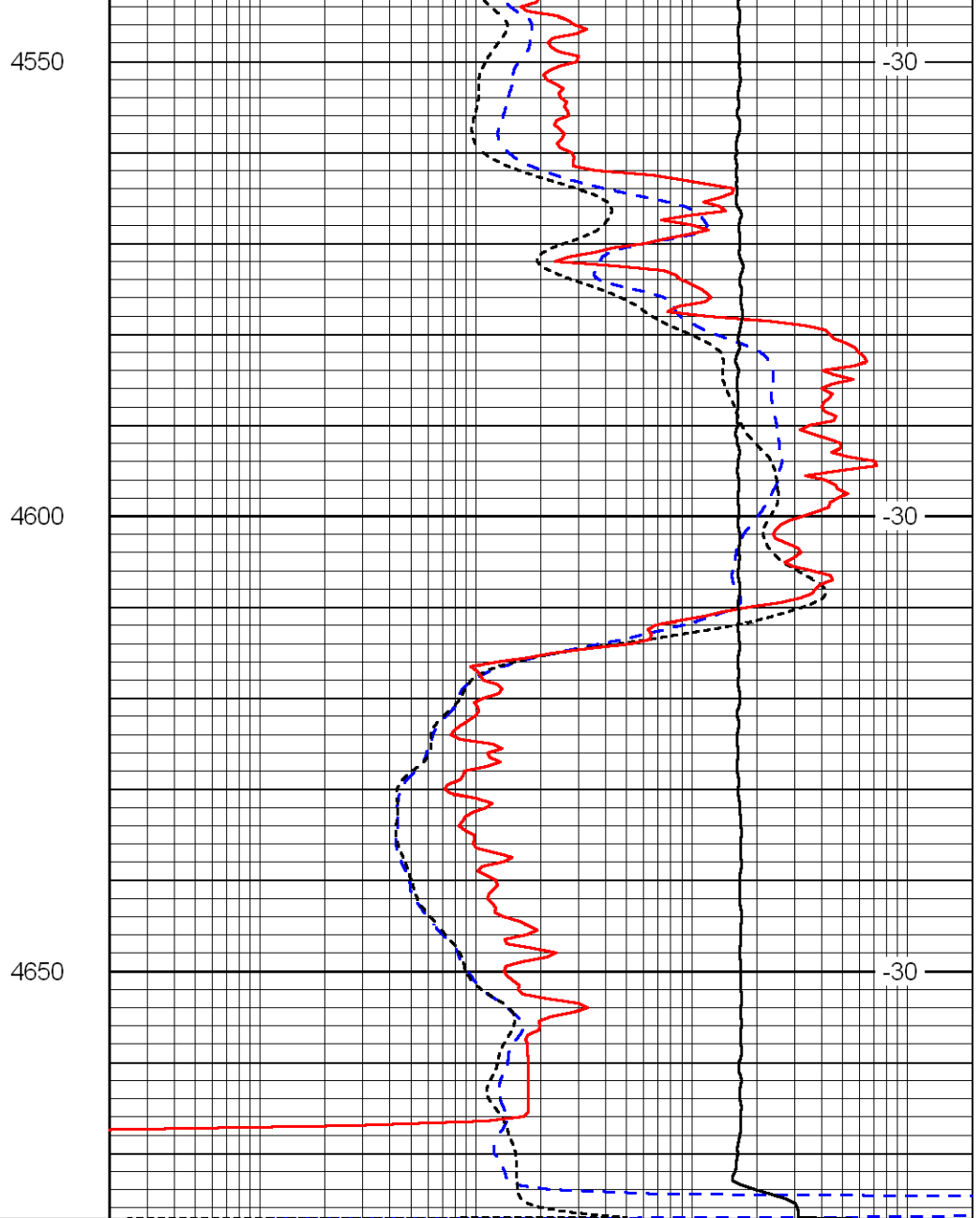
-30

-30

-30



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