



Dual Induction Log

DIGITAL LOG (785) 625-3858

API No.	15-163-23,813-00-00		
Company	Murfin Drilling Company, Inc.		
Well	M&A Unit No.1-32		
Field			
County	Rooks	State	Kansas
Location	935' FNL & 2345' FEL		Other Services CNL/CDL MEL/BHCS
Sec: 32	Twp: 10S	Rge: 18W	Elevation

Permanent Datum	Ground Level	Elevation 2043
Log Measured From	Kelly Bushing	5 Ft. Above Perm. Datum
Drilling Measured From	Kelly Bushing	K.B. 2048 D.F. 2043 G.L. 2043

Date	7/13/2009	
Run Number	One	
Depth Driller	3730	
Depth Logger	3726	
Bottom Logged Interval	3725	
Top Log Interval	0	
Casing Driller	8.625 @ 218	
Casing Logger	200	
Bit Size	7.875	
Type Fluid in Hole	Chemical	
Salinity, ppm CL	6.900	
Density / Viscosity	9.1 57	
pH / Fluid Loss	11.0 7.2	
Source of Sample	Flowline	
Rm @ Meas. Temp	.8 @ 85	
Rmf @ Meas. Temp	.6 @ 85	
Rmc @ Meas. Temp	1.08 @ 85	
Source of Rmf / Rmc	Charts	
Rm @ BHT	.59 @ 115	
Operating Rig Time	4 Hours	
Max Rec. Temp. F	115	
Equipment Number	17	
Location	Hays	
Recorded By	C. Desaire	
Witnessed By	Rocky Milford	

<<< 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

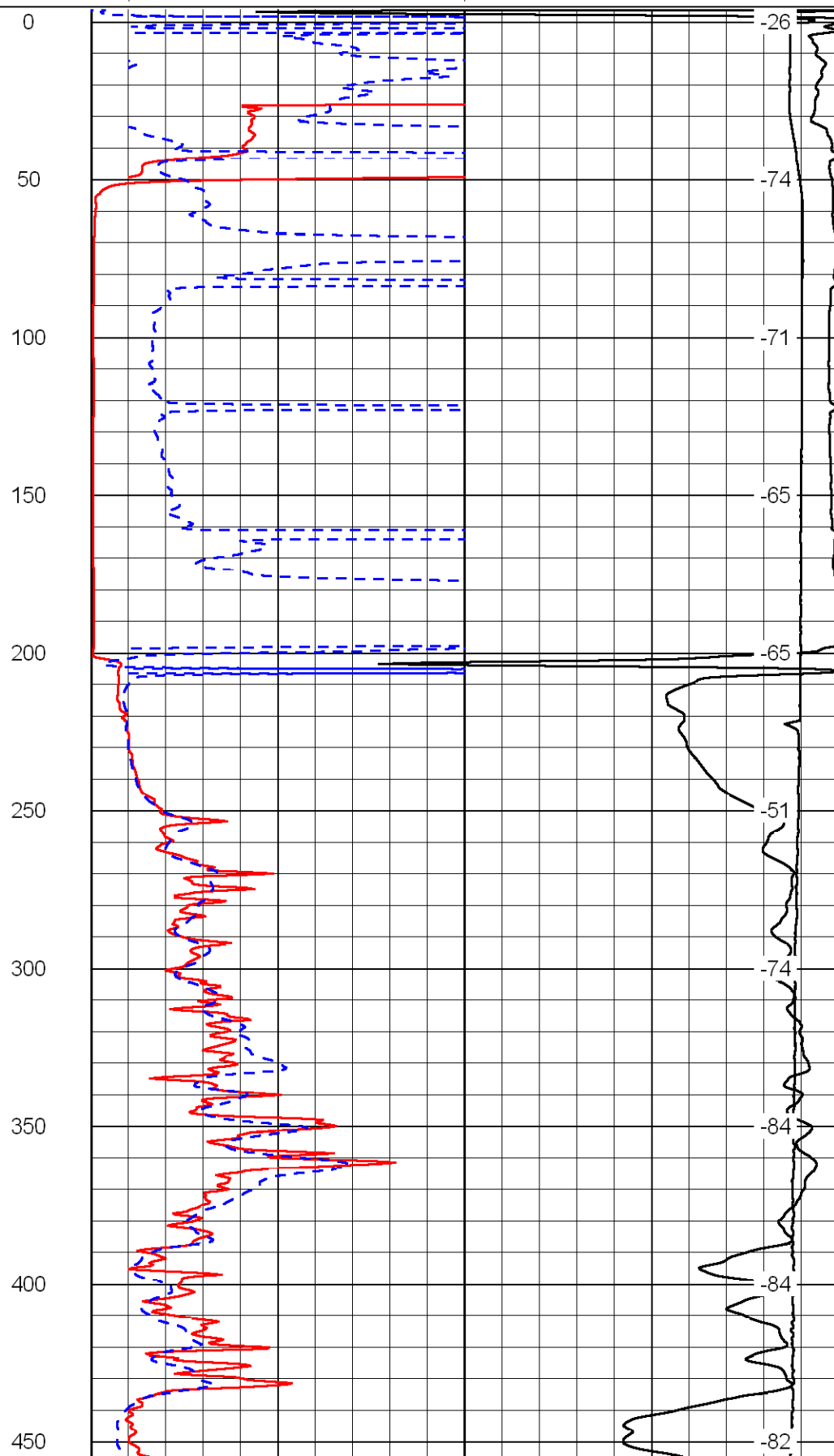
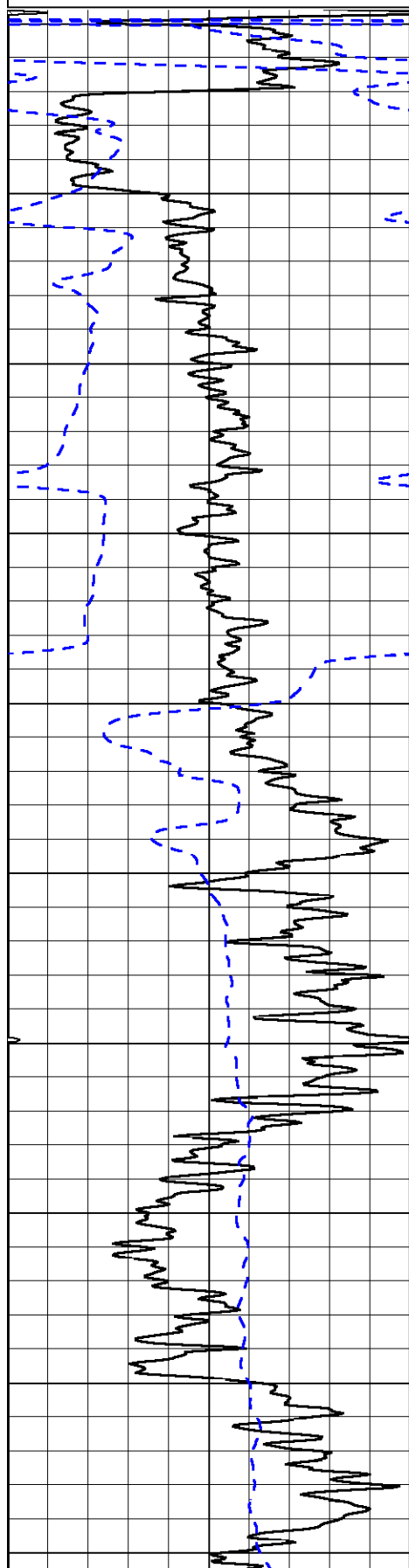
Hays, N to Saline River Rd, 1 1/2,
3 3/4 N, W Into

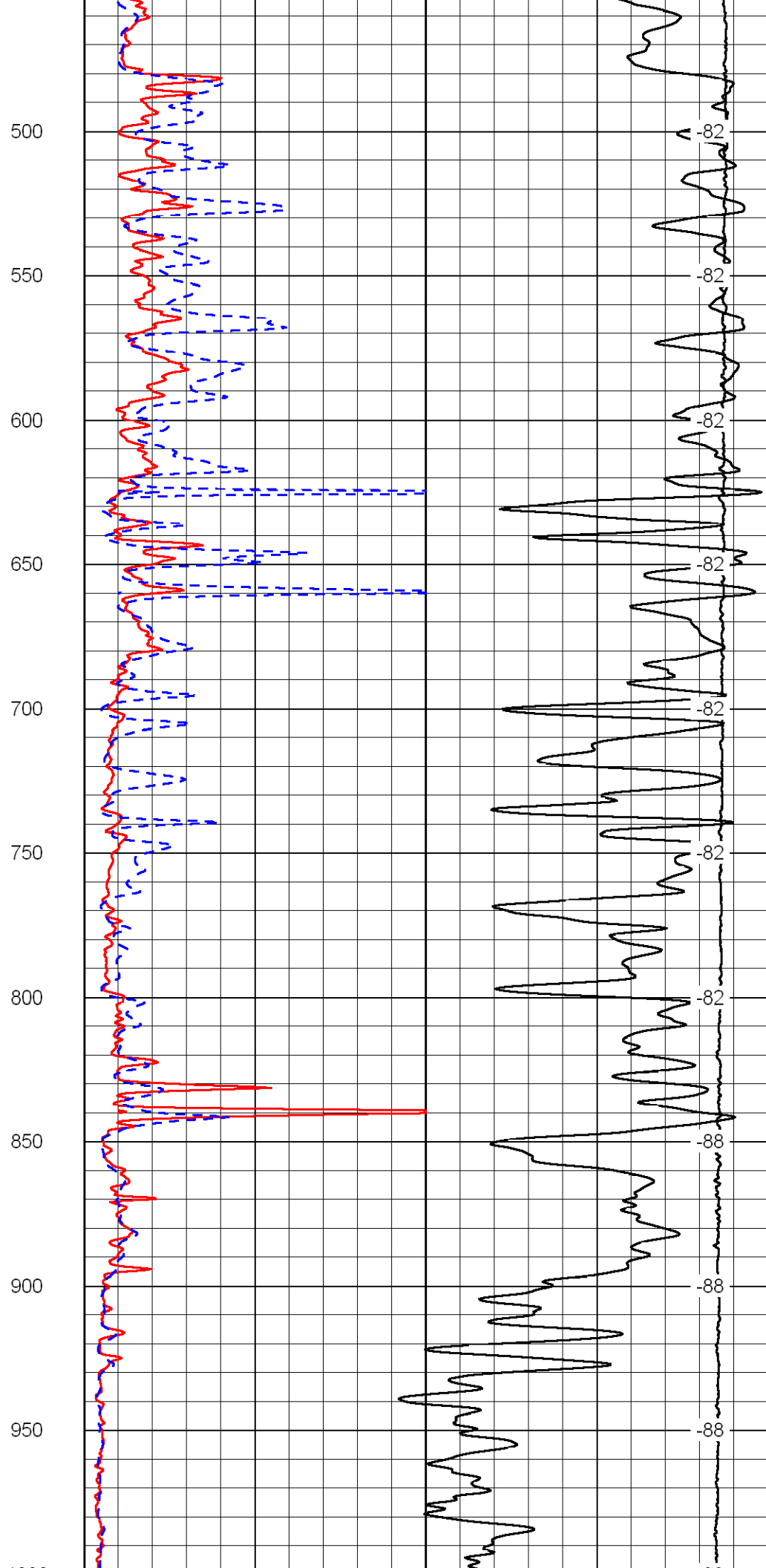
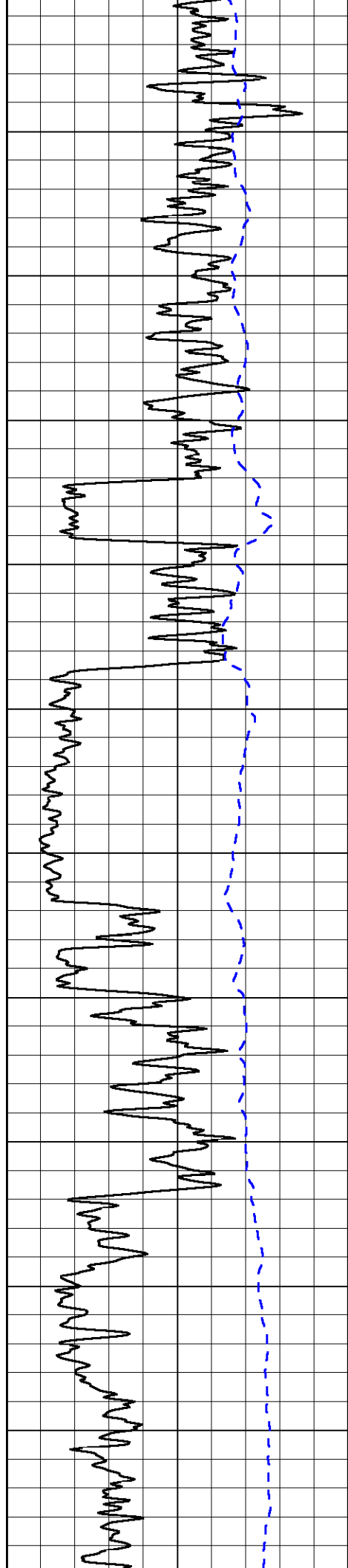
Database File: c:\warrior\data\murfin_m&a unit #1-32\murfin.db
Dataset Pathname: dil\mrfnstk
Presentation Format: dil2in
Dataset Creation: Mon Jul 13 21:25:01 2009
Charted by: Depth in Feet scaled 1:600

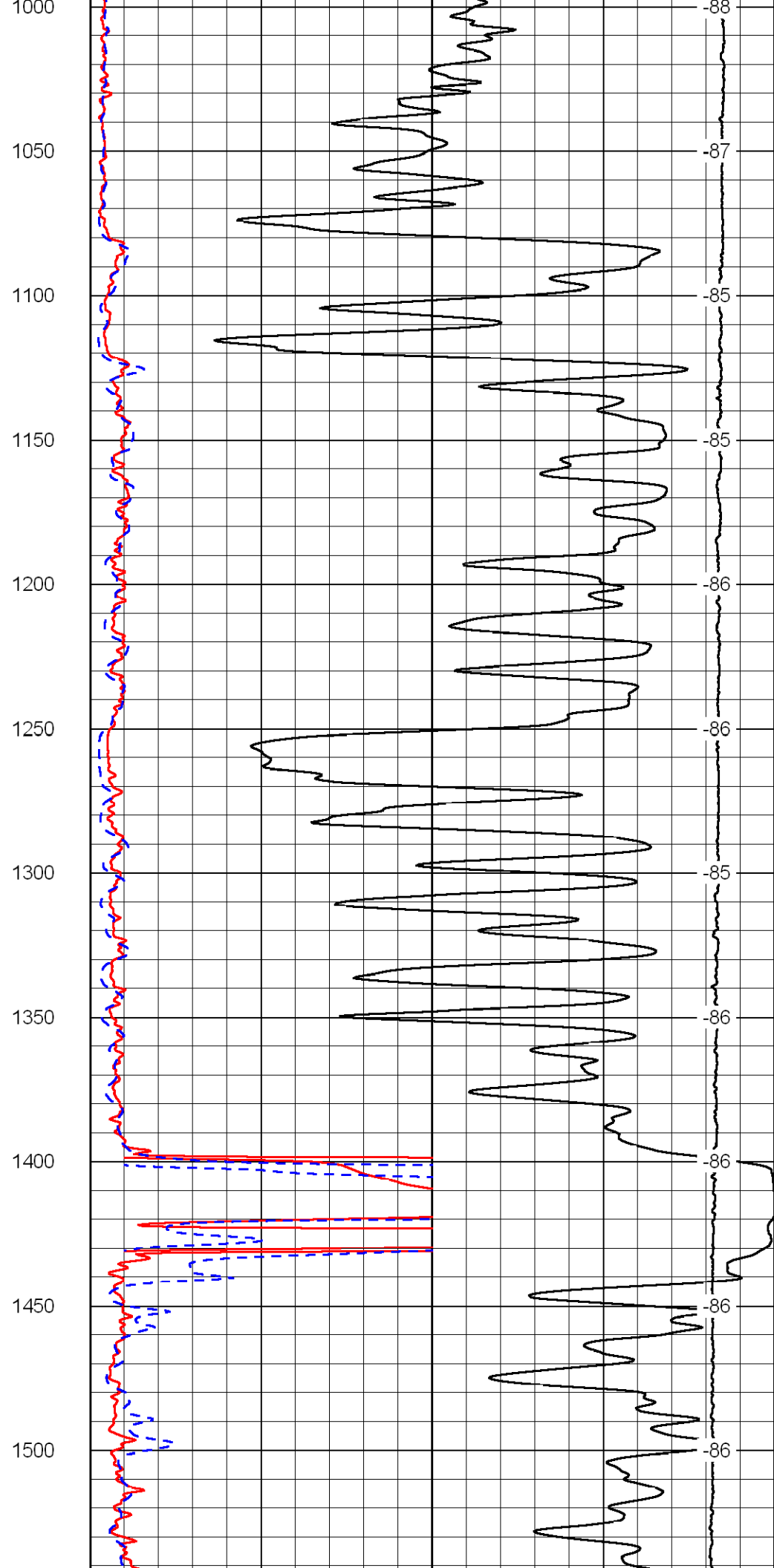
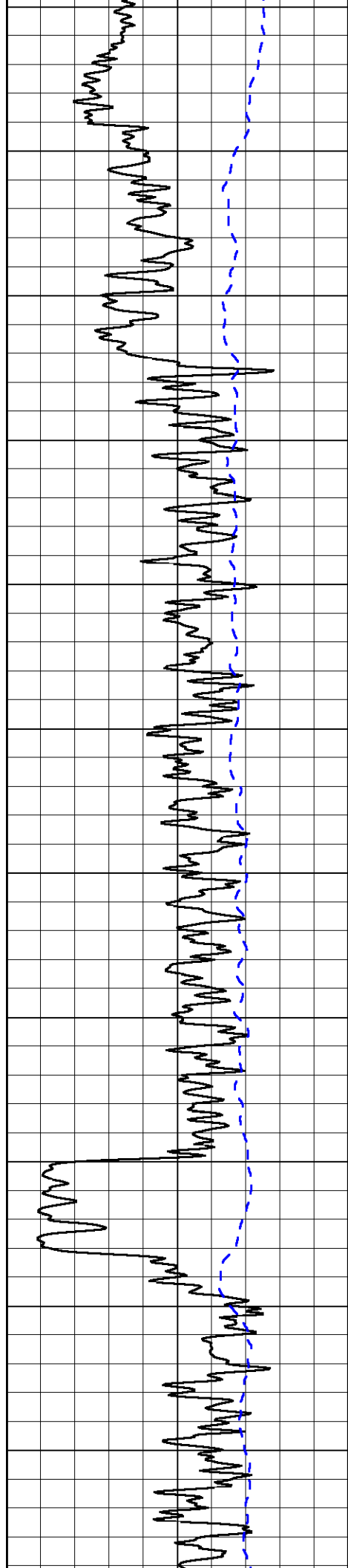
0	Gamma Ray	150
-200	SP (MV)	0

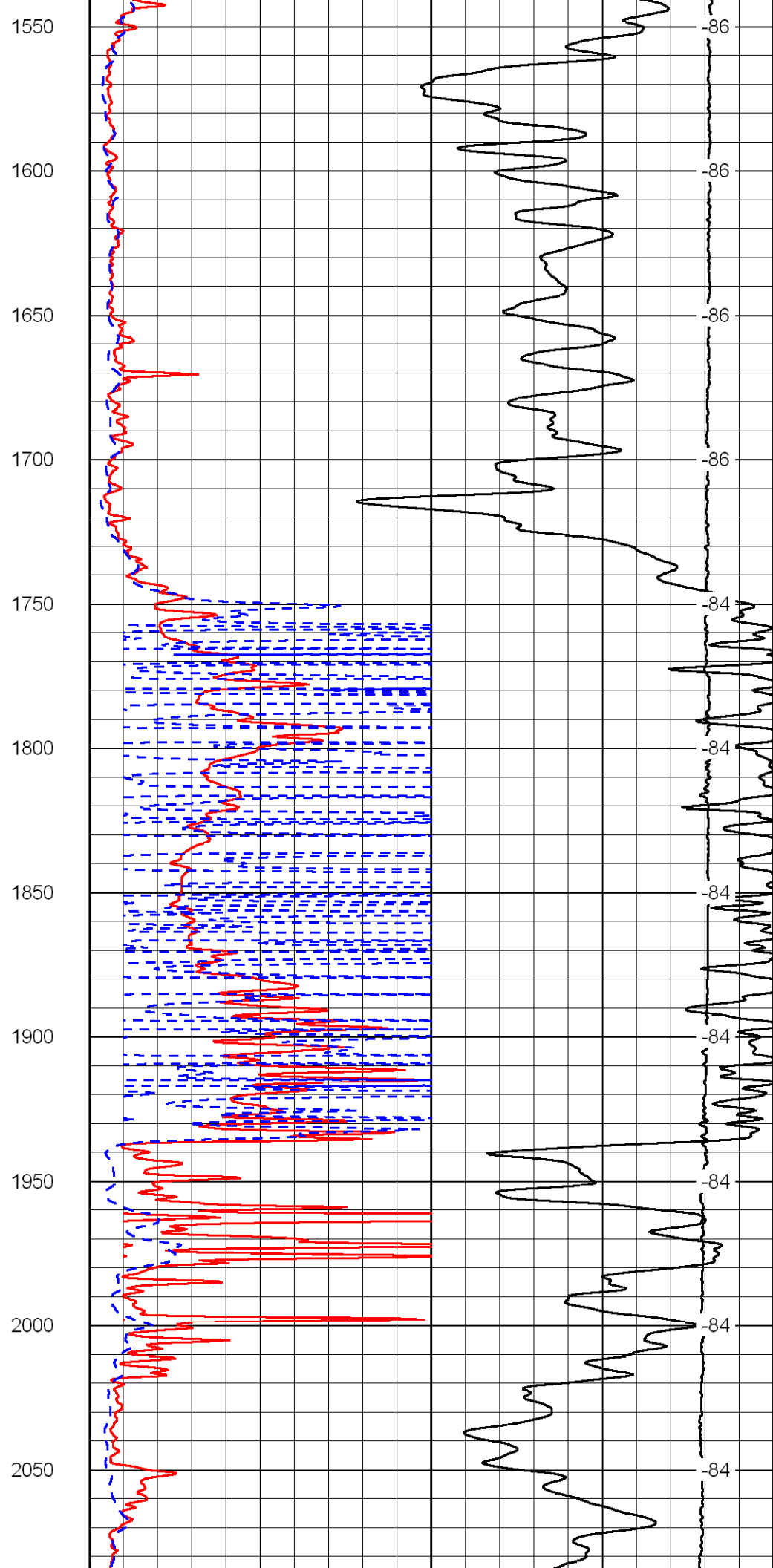
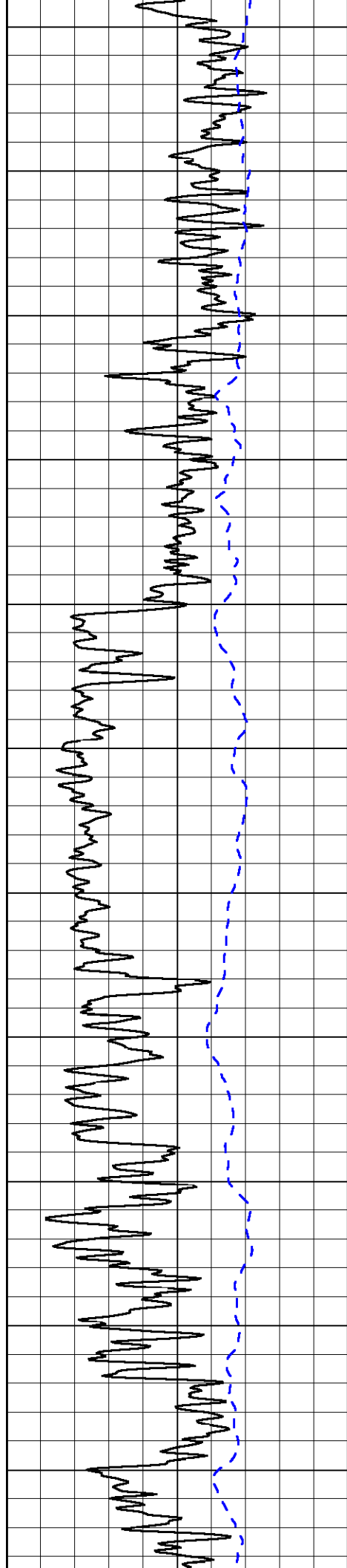
0	Shallow Resistivity (Ohm-m)	50
0	Deep Resistivity (Ohm-m)	50
1000	Conductivity (mmho/m)	0
15000	Line Tension (lb)	0
Shallow Resistivity		
50	(Ohm-m)	500
50	Deep Resistivity (Ohm-m)	500

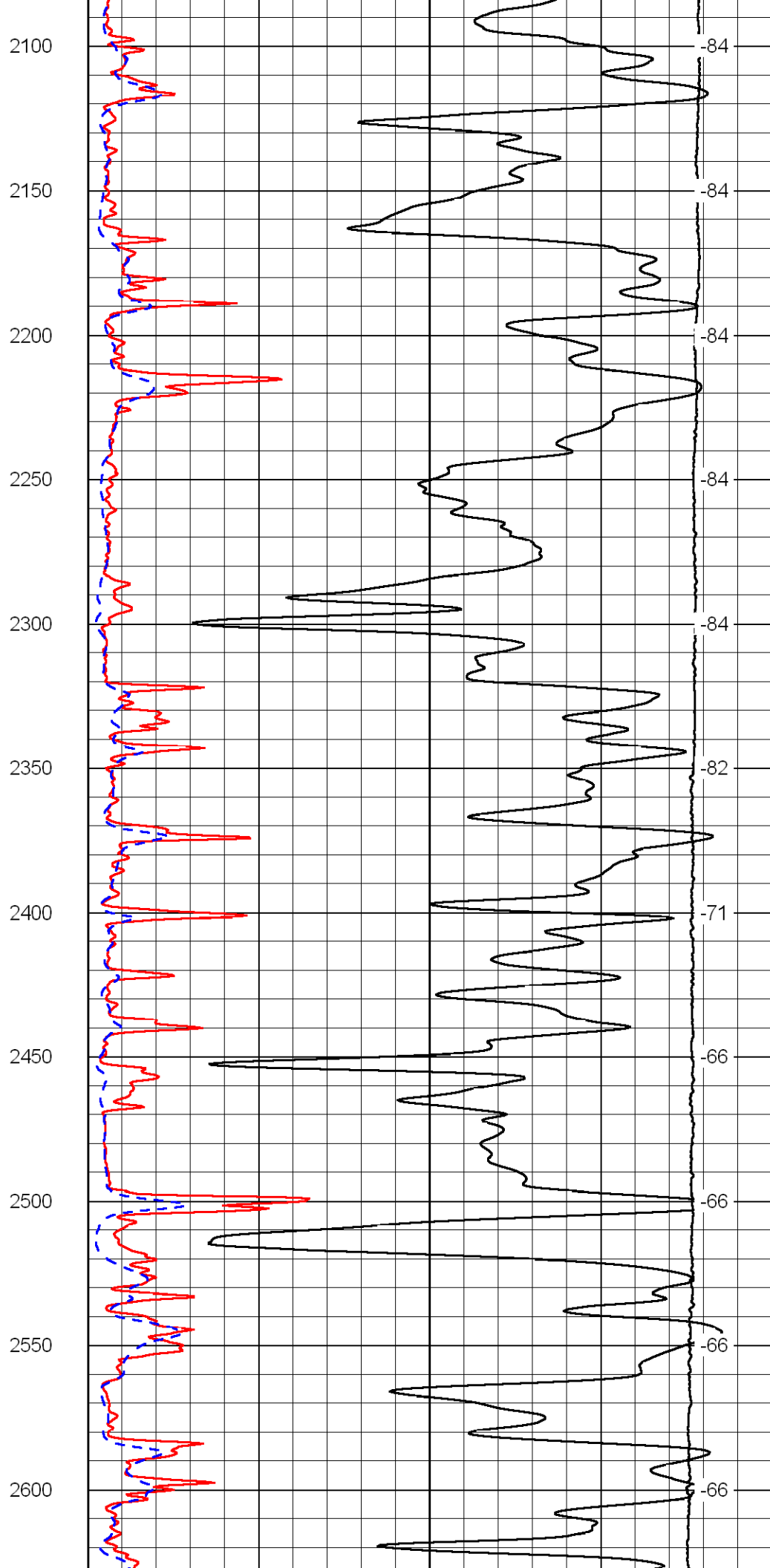
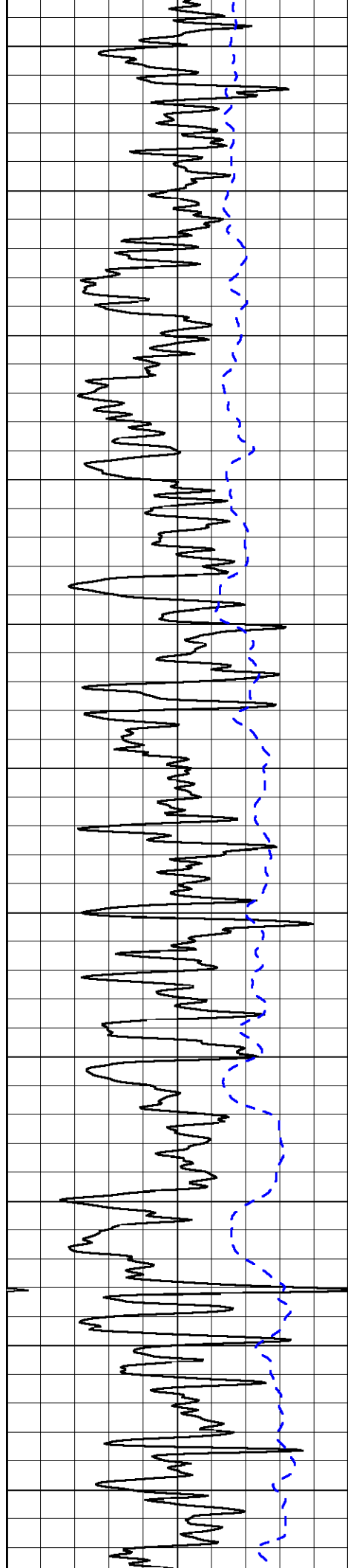
LSPD
(ft/min)

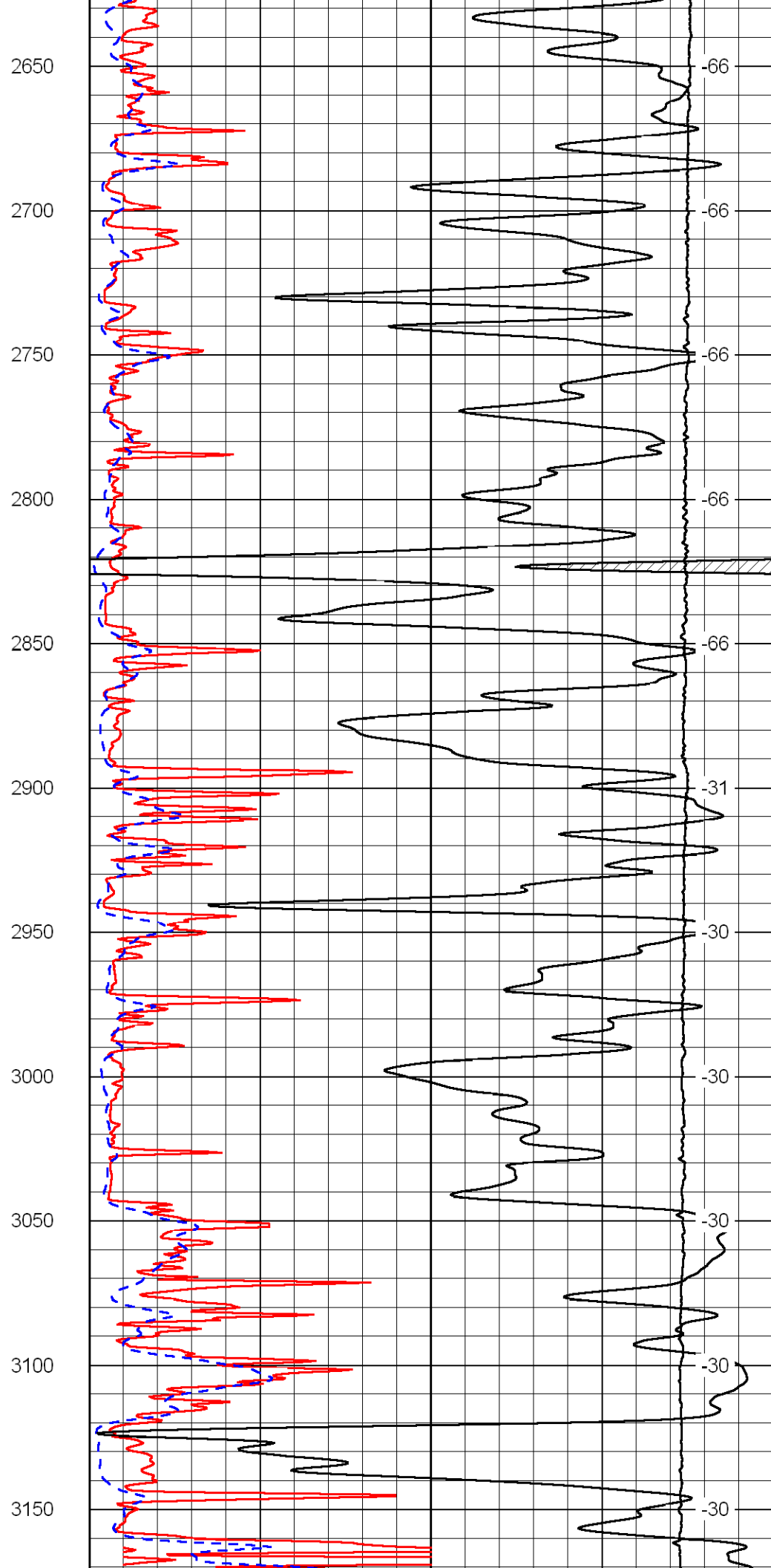
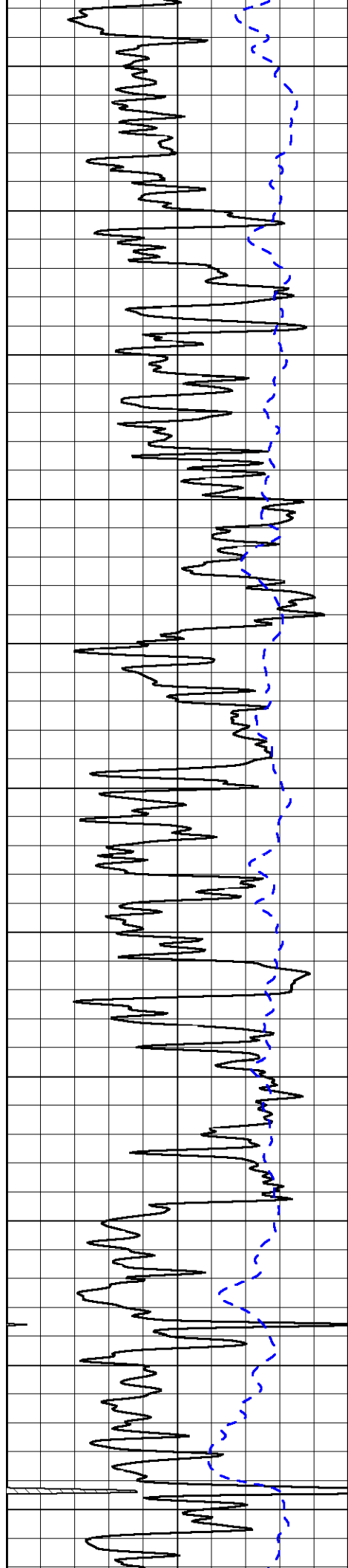


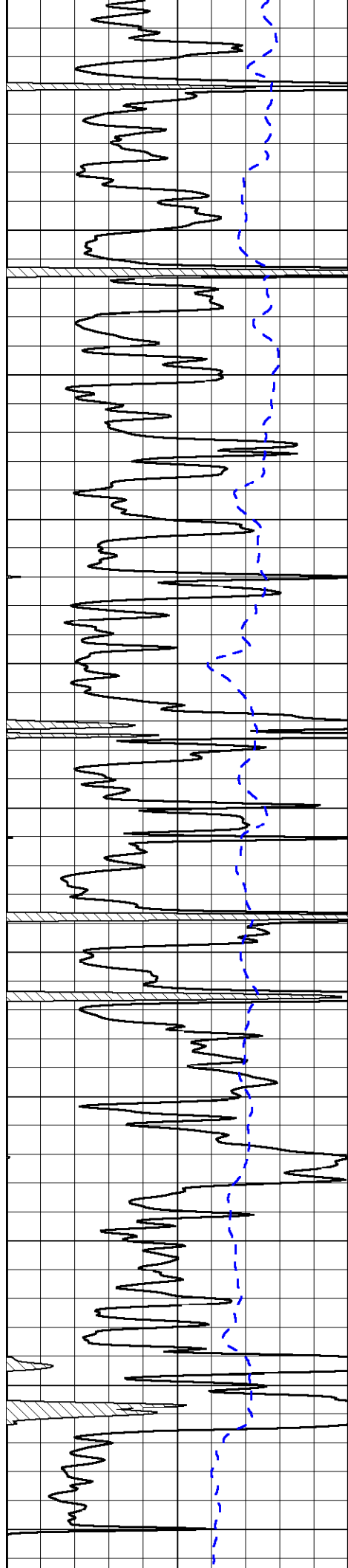












3200

3250

3300

3350

3400

3450

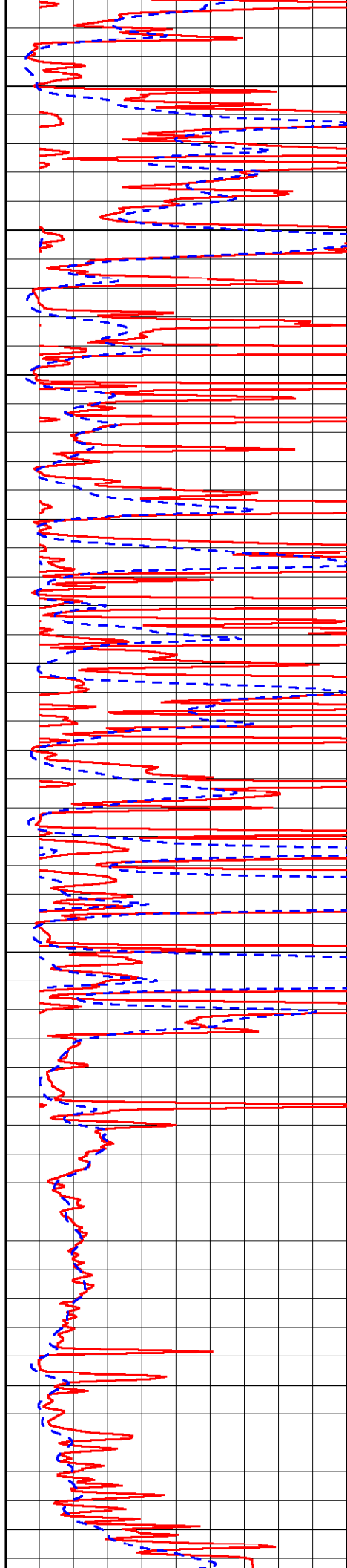
3500

3550

3600

3650

3700



-30

-30

-30

-30

-30

-30

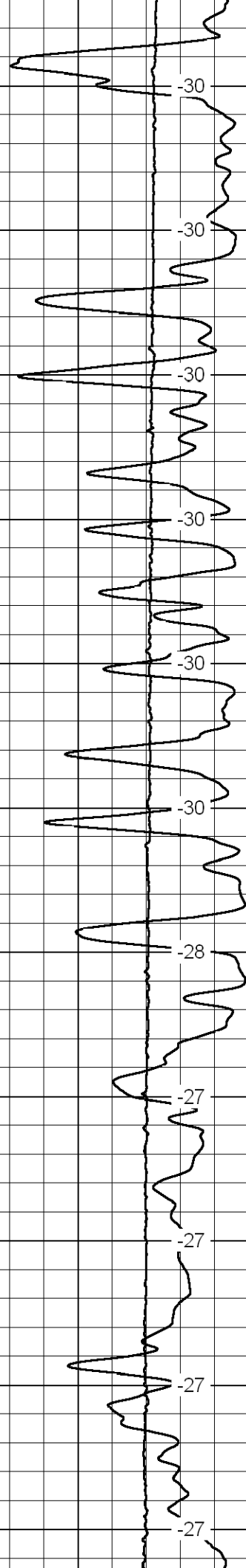
-28

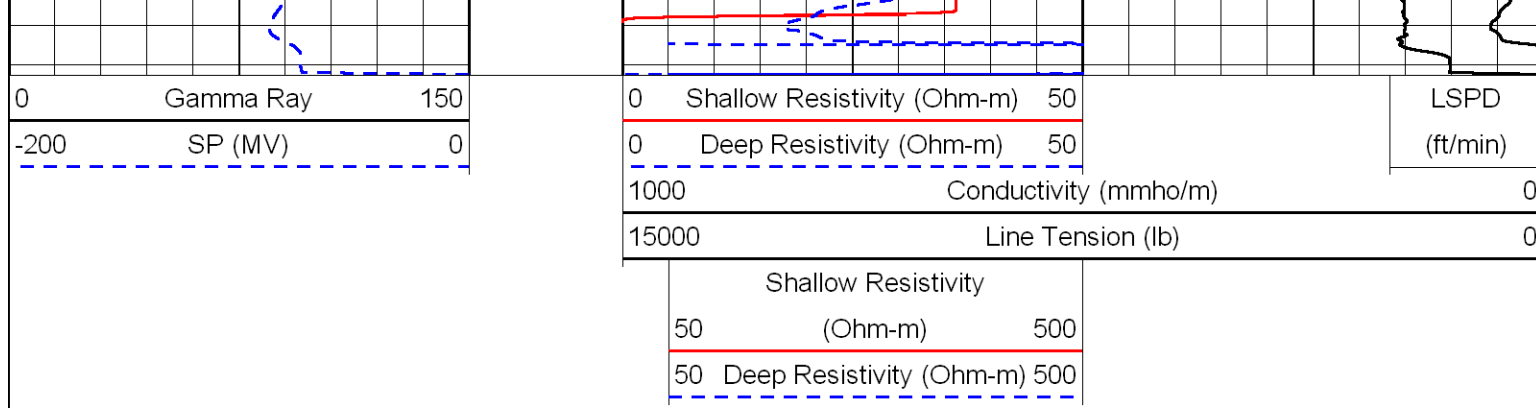
-27

-27

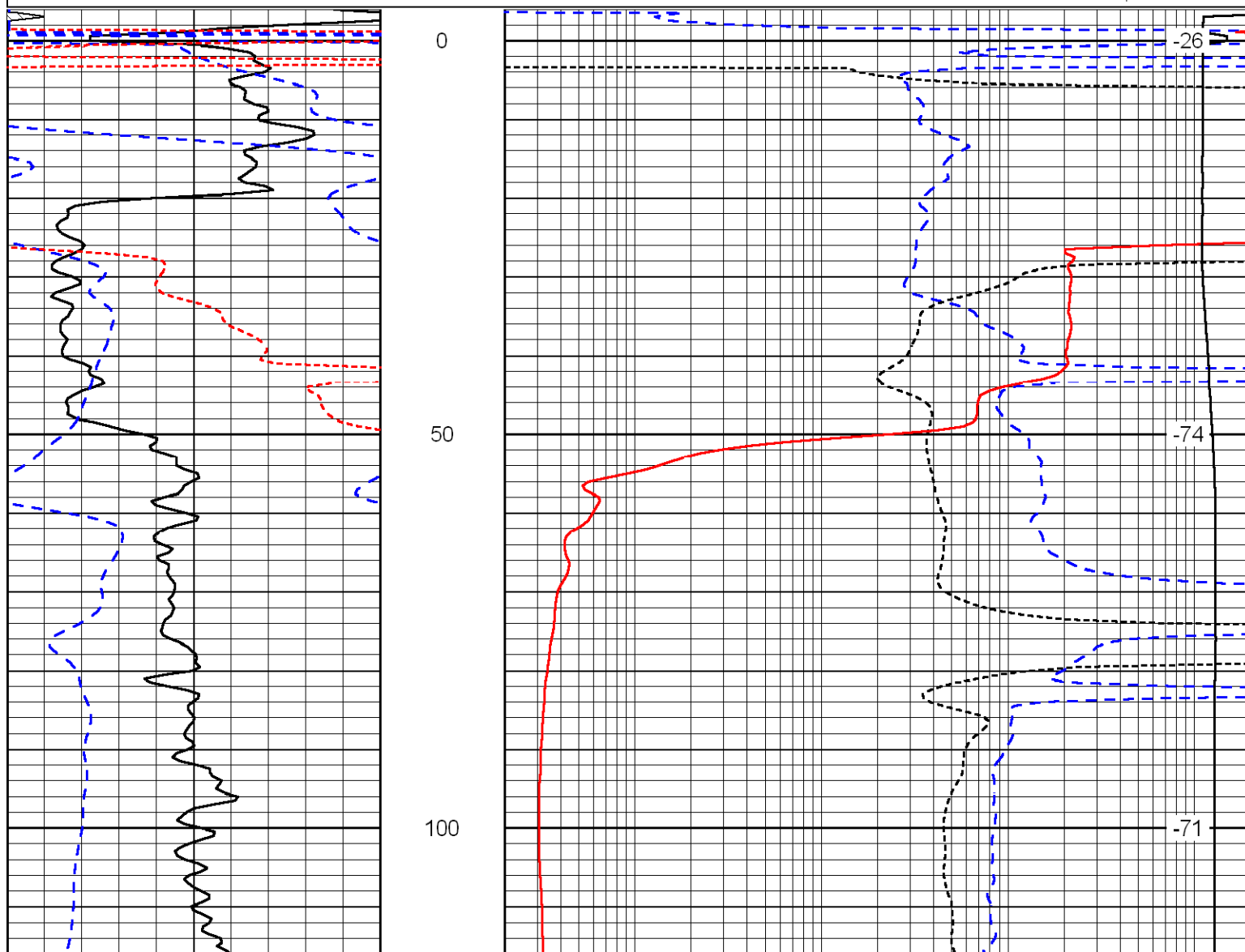
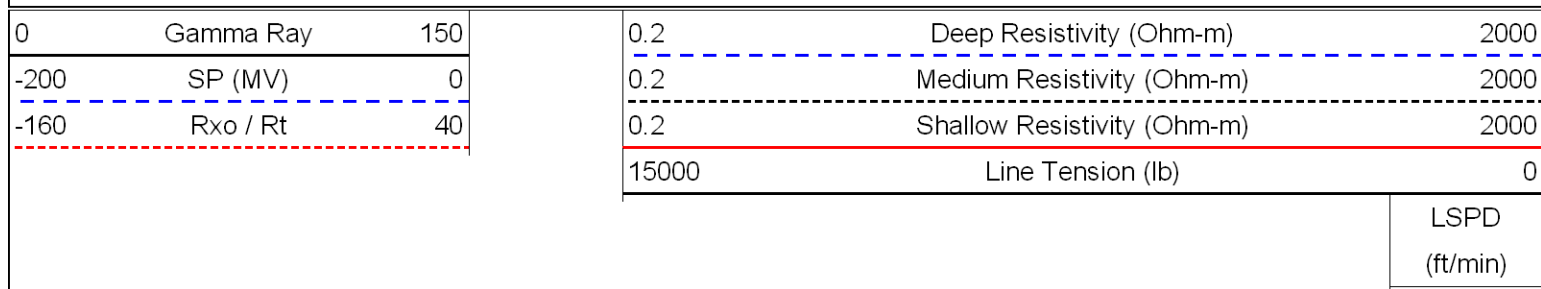
-27

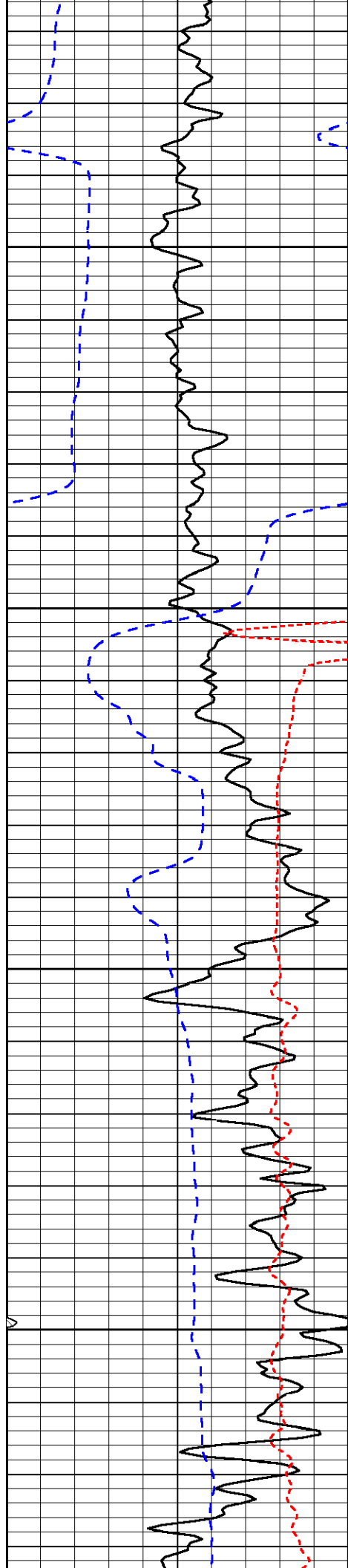
-27





Database File: c:\warrior\data\murfin_m&a unit #1-32\murfin.db
 Dataset Pathname: dil/mrfnstk
 Presentation Format: dil
 Dataset Creation: Mon Jul 13 21:25:01 2009
 Charted by: Depth in Feet scaled 1:240



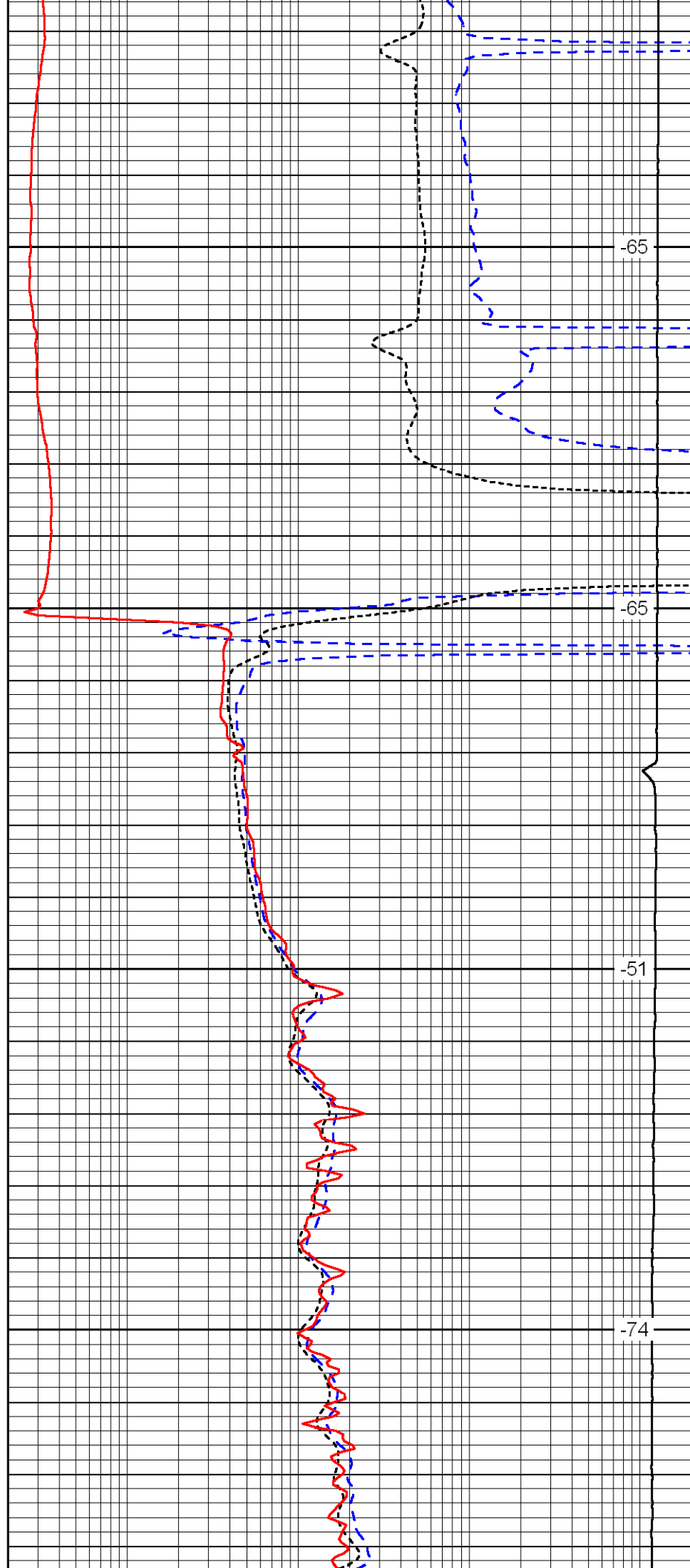


150

200

250

300

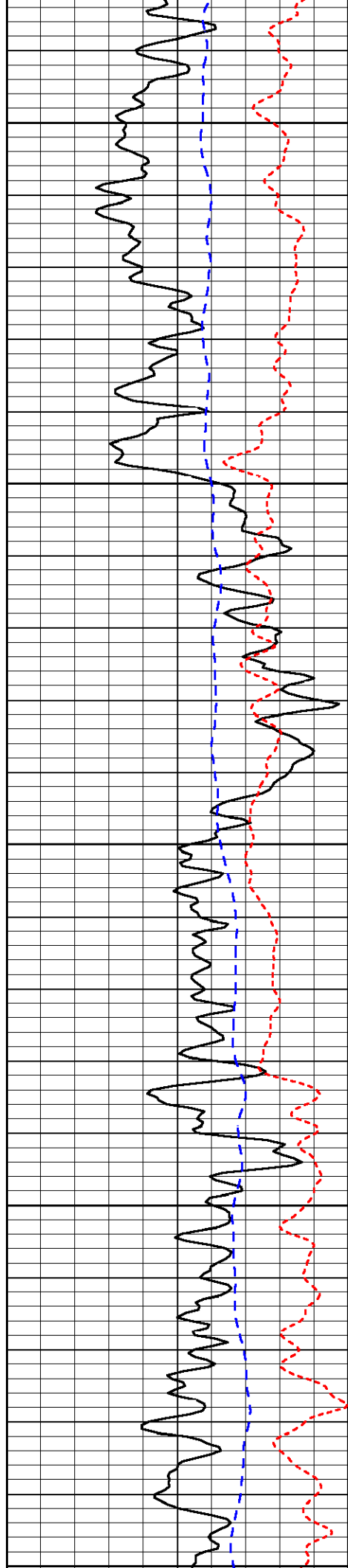


-65

-65

-51

-74



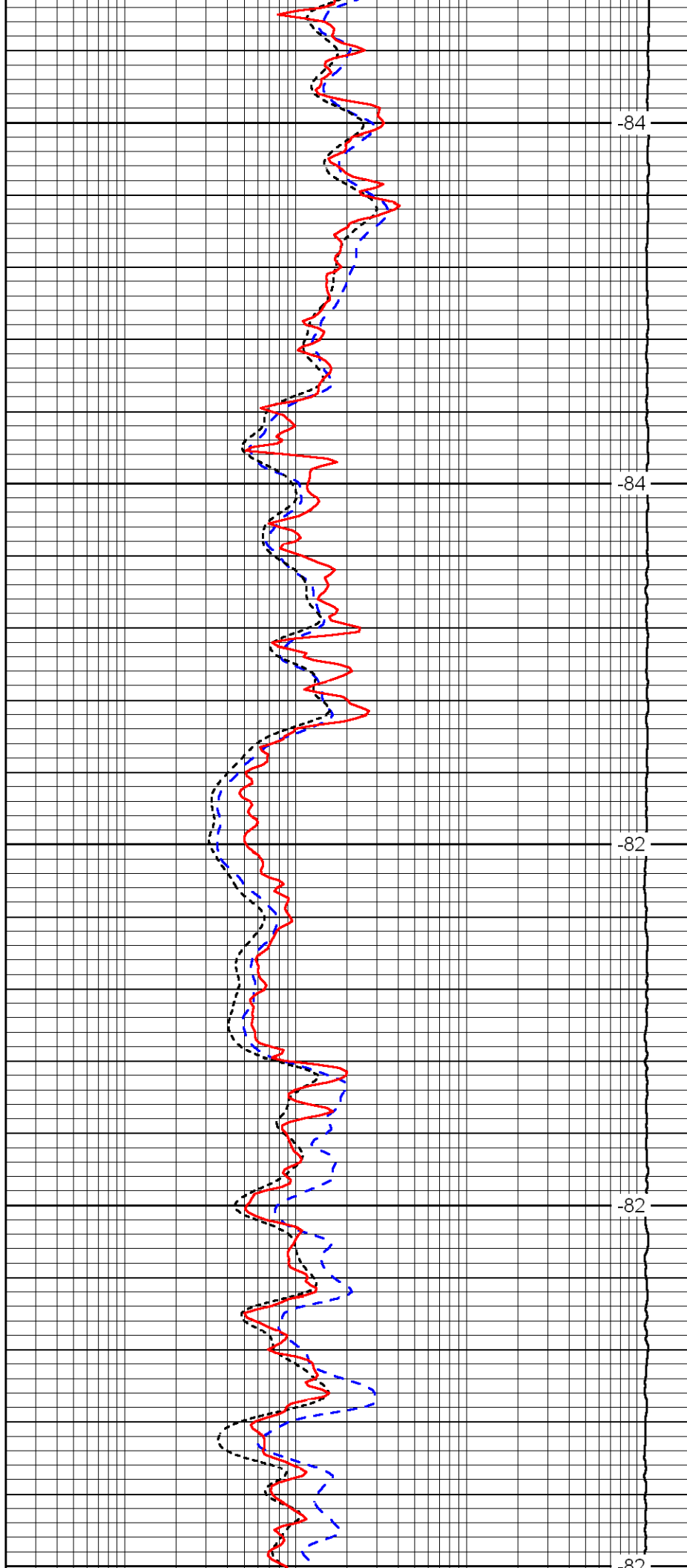
350

400

450

500

550



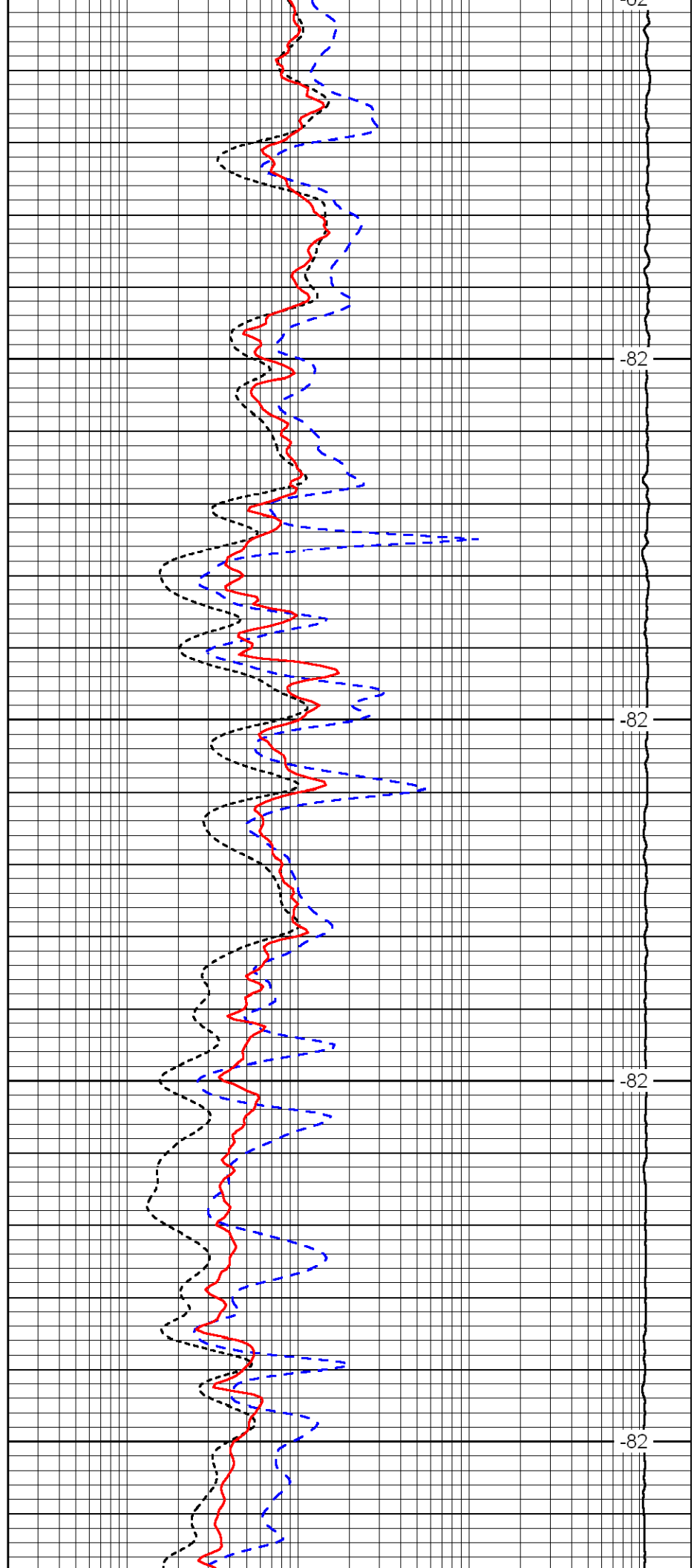
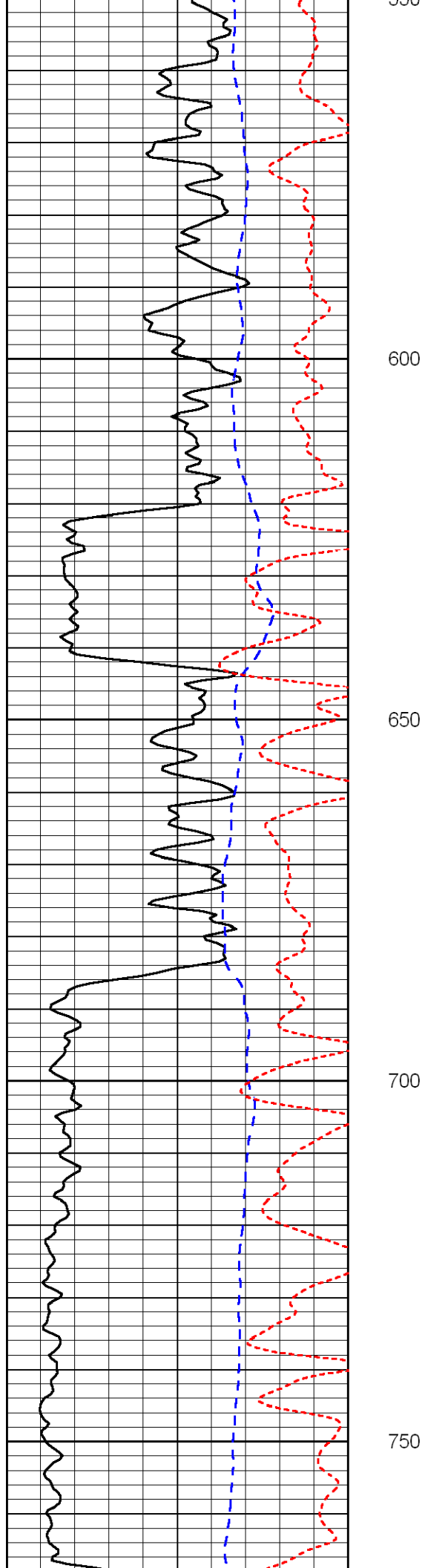
-84

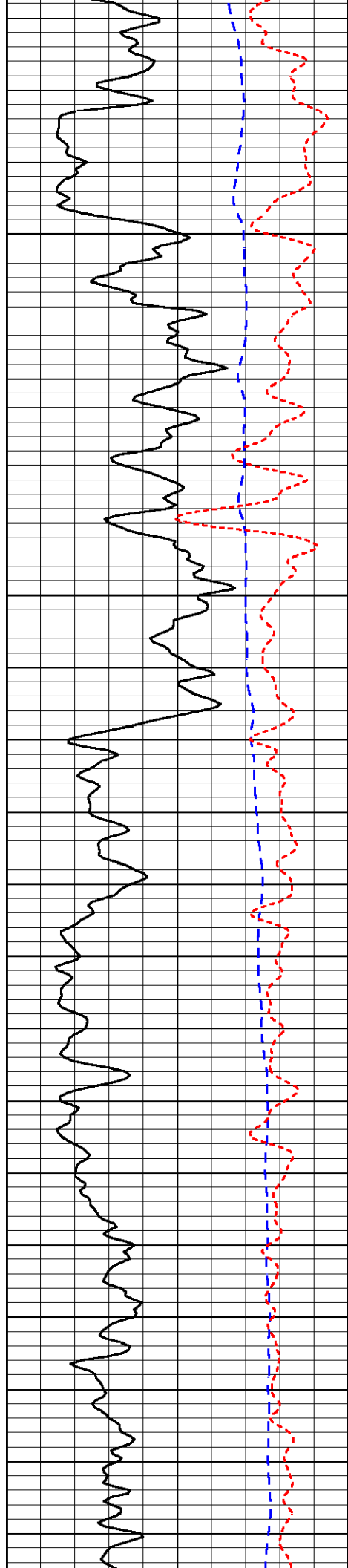
-84

-82

-82

-82



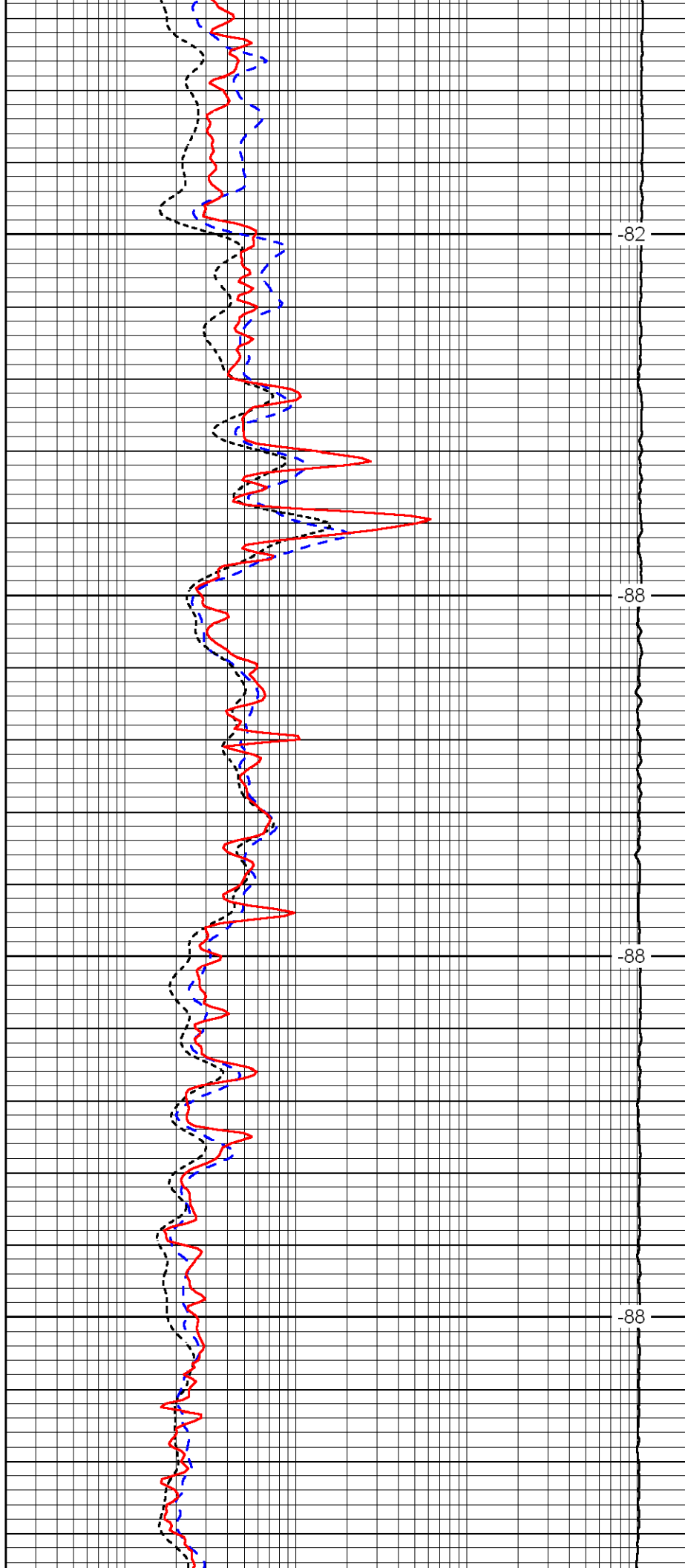


800

850

900

950

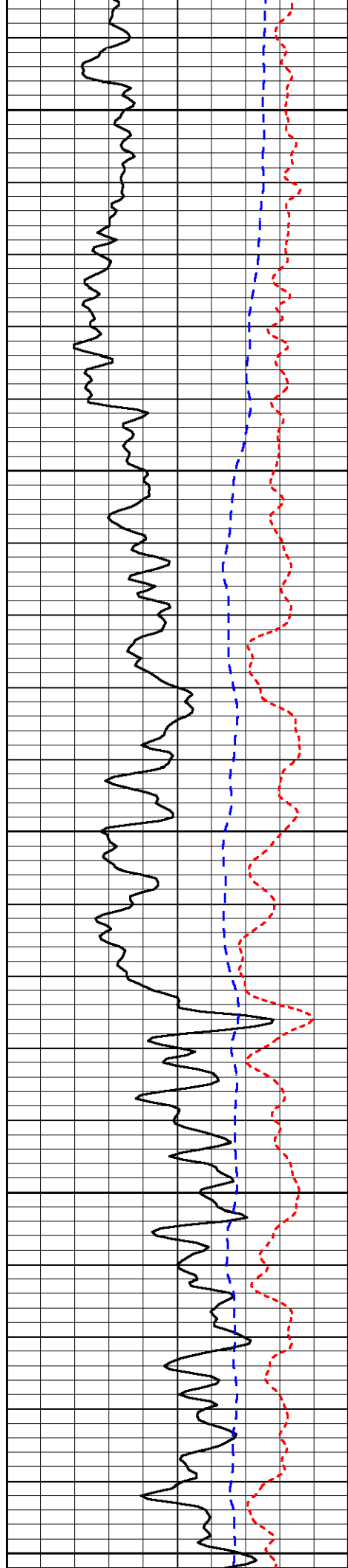


-82

-88

-88

-88



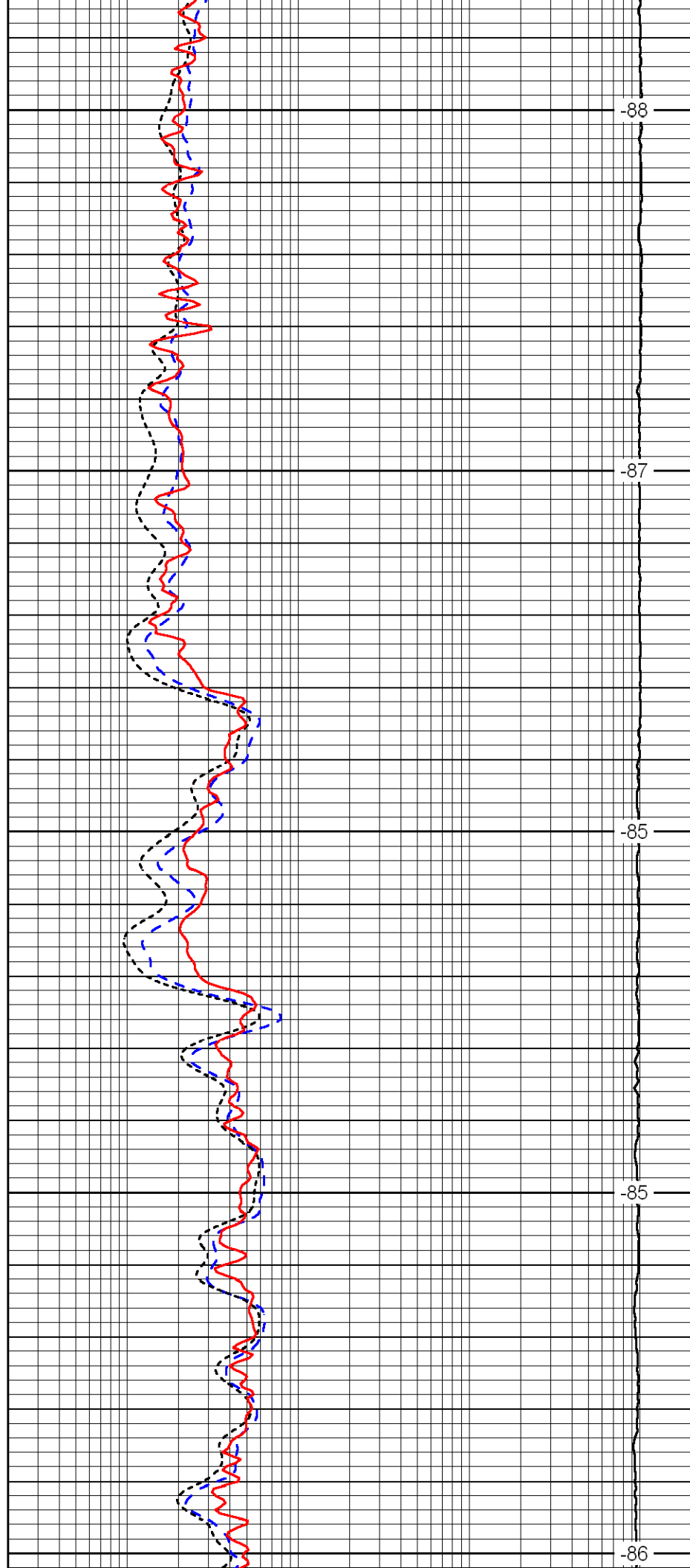
1000

1050

1100

1150

1200



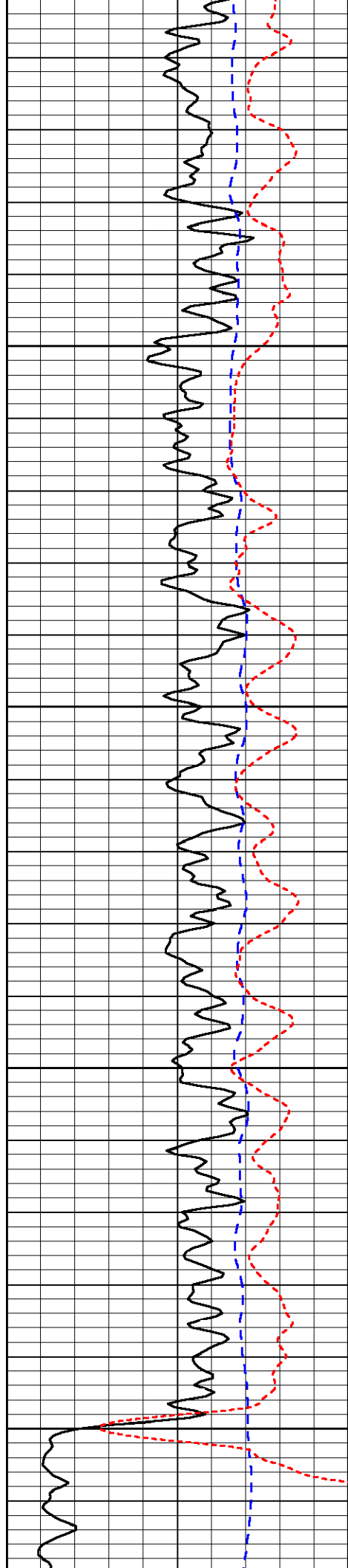
-88

-87

-85

-85

-86

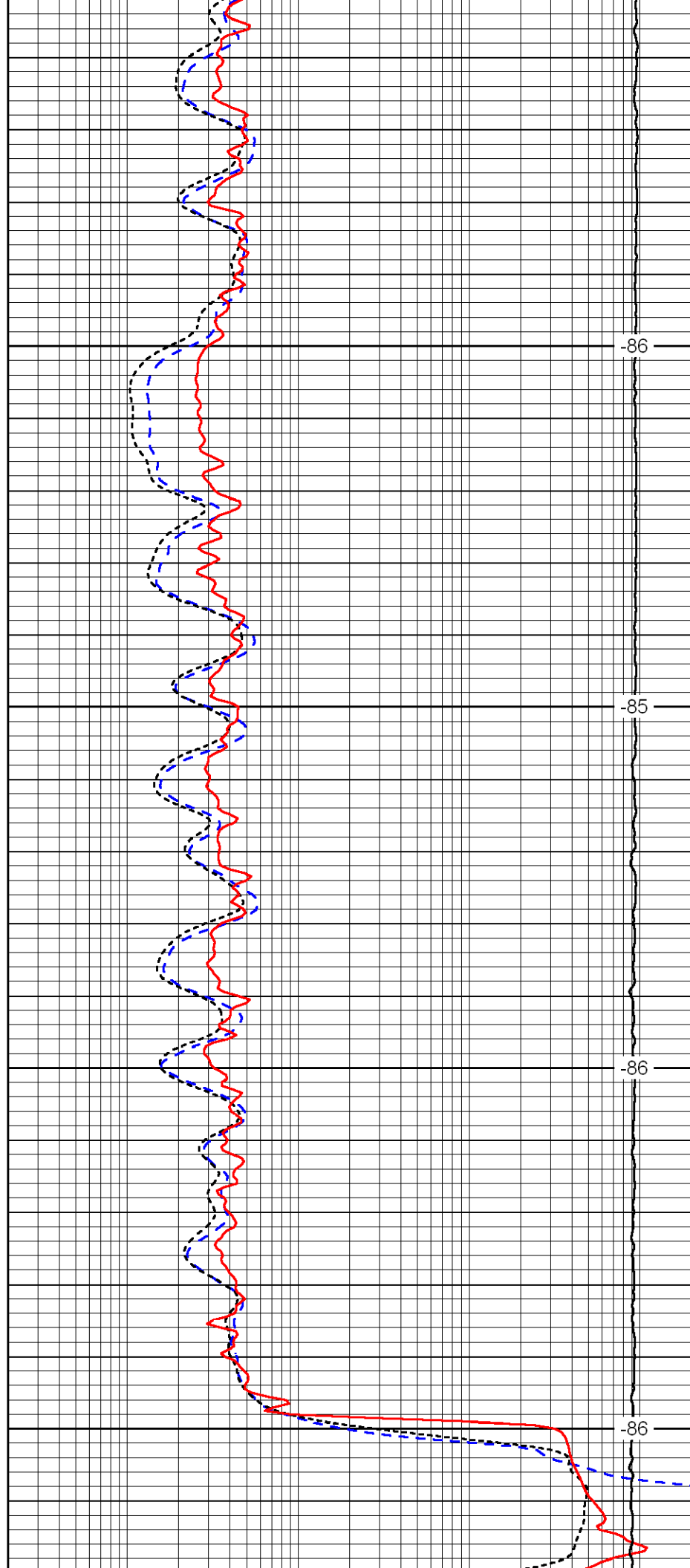


1250

1300

1350

1400

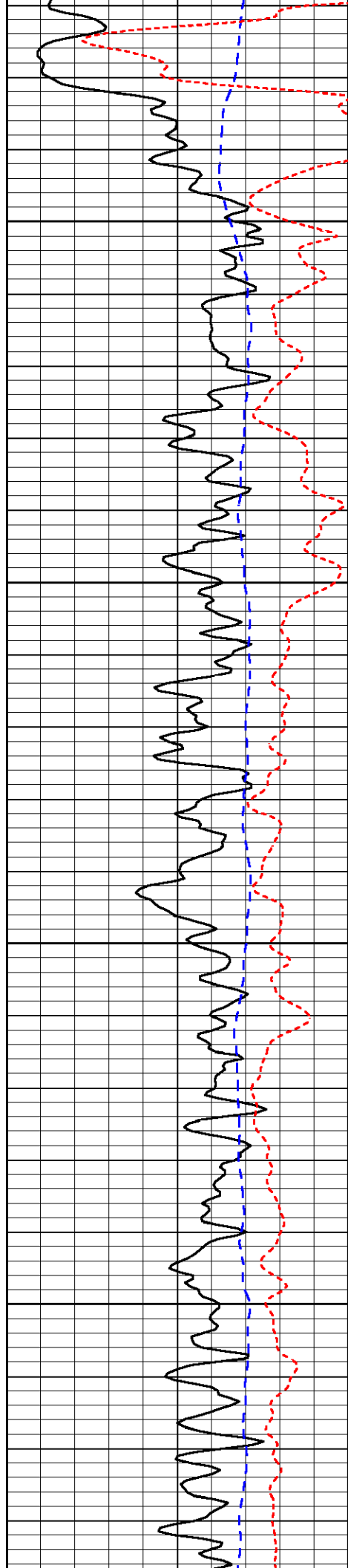


-86

-85

-86

-86

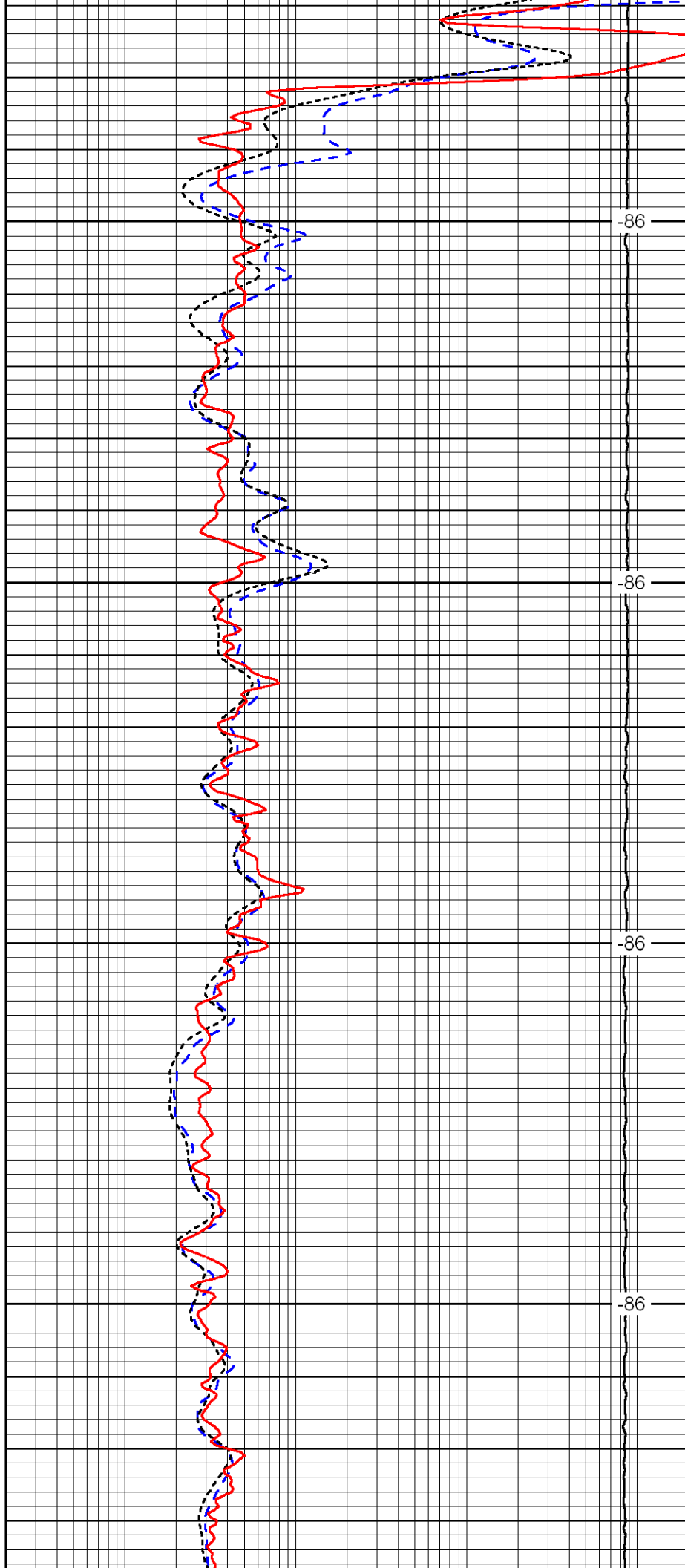


1450

1500

1550

1600

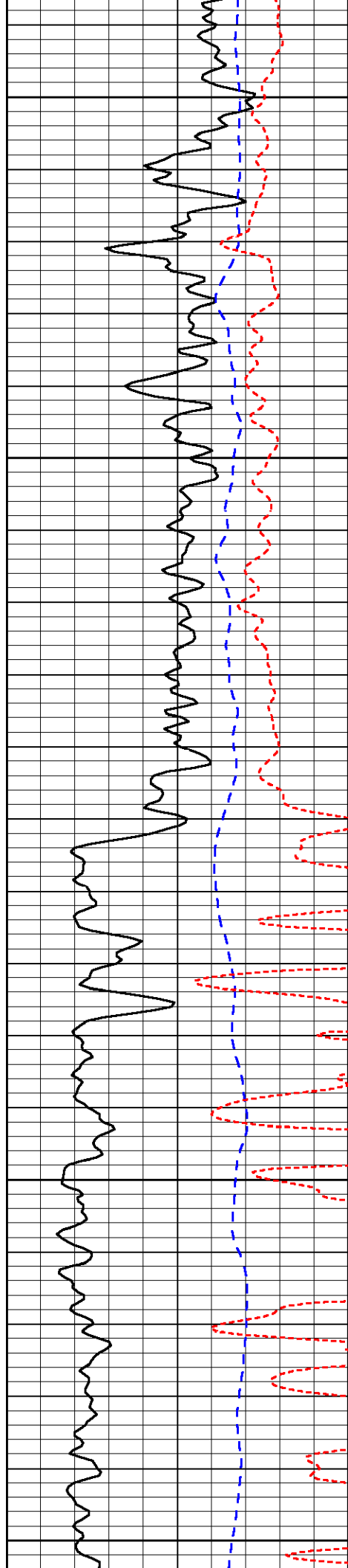


-86

-86

-86

-86



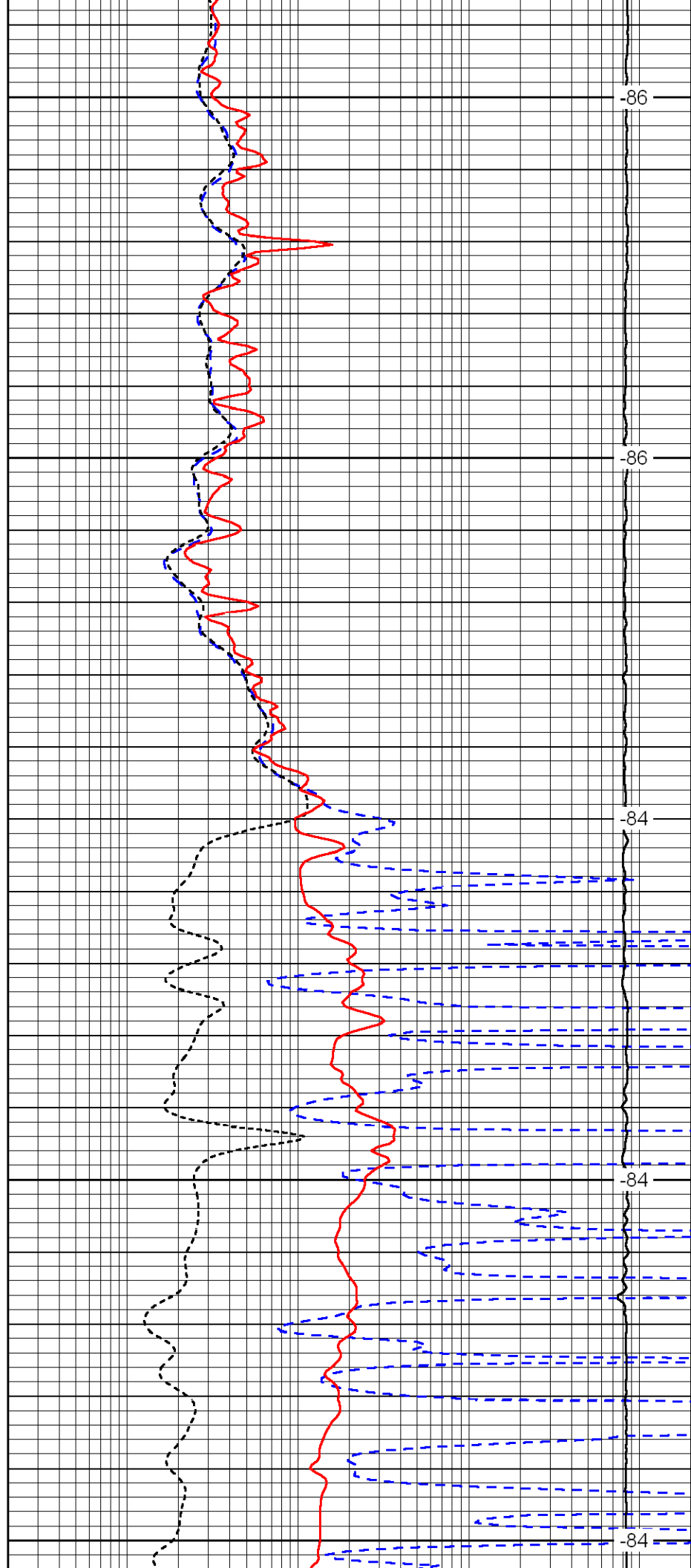
1650

1700

1750

1800

1850



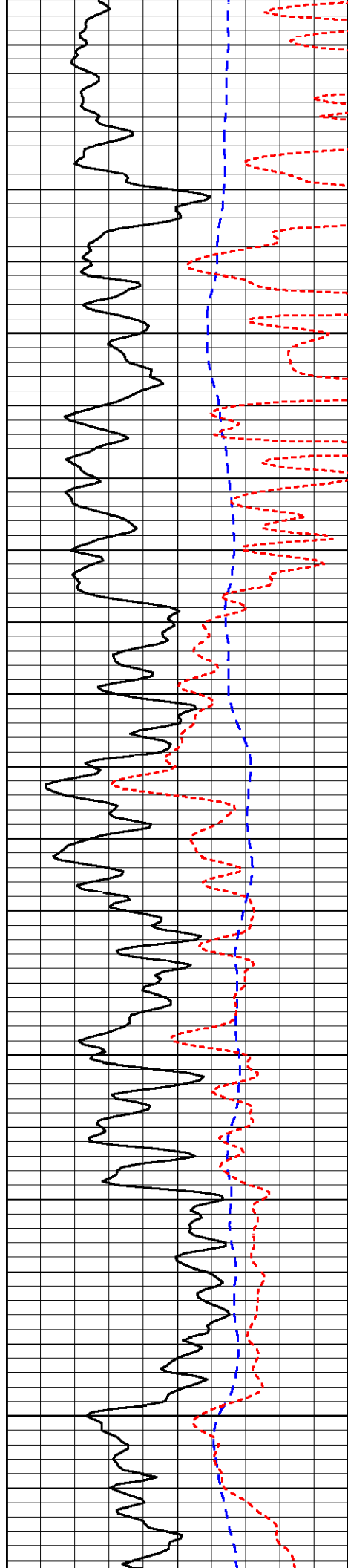
-86

-86

-84

-84

-84

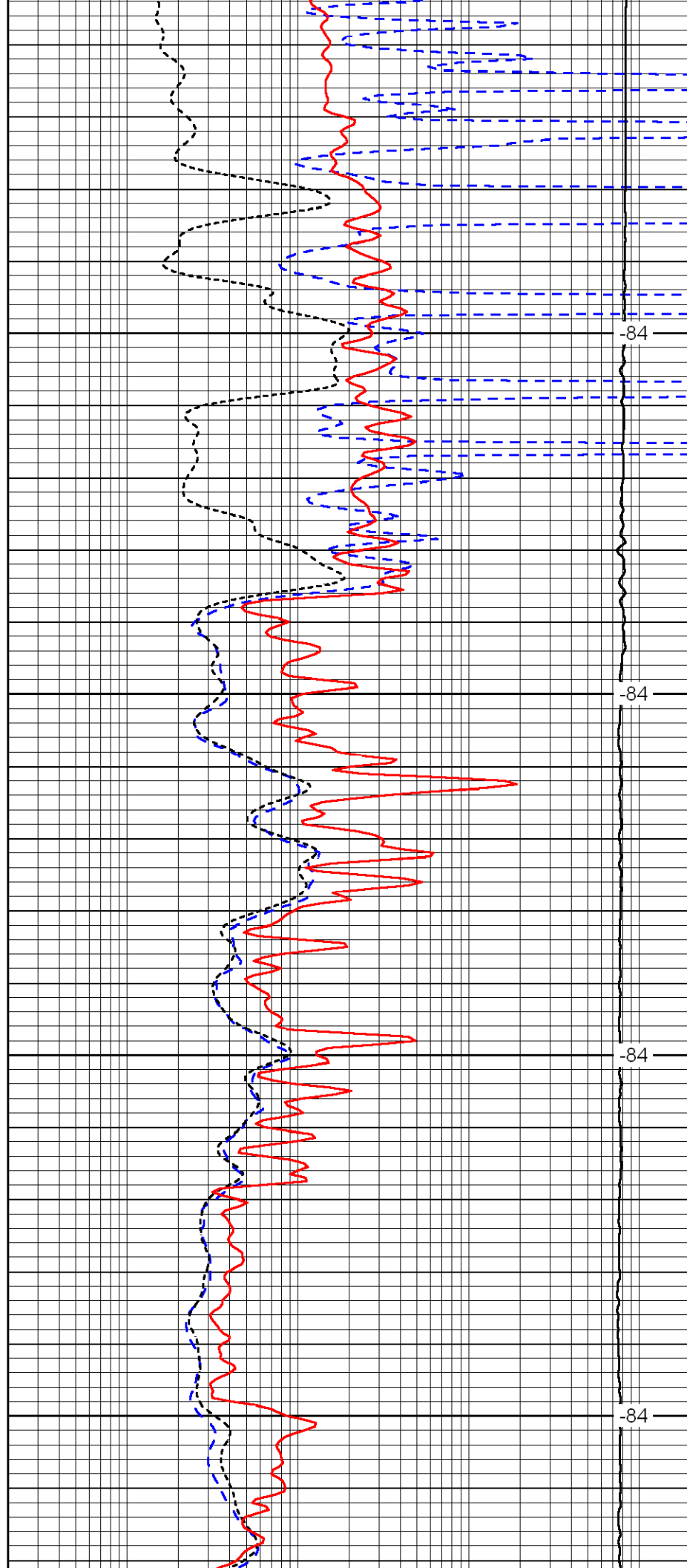


1900

1950

2000

2050

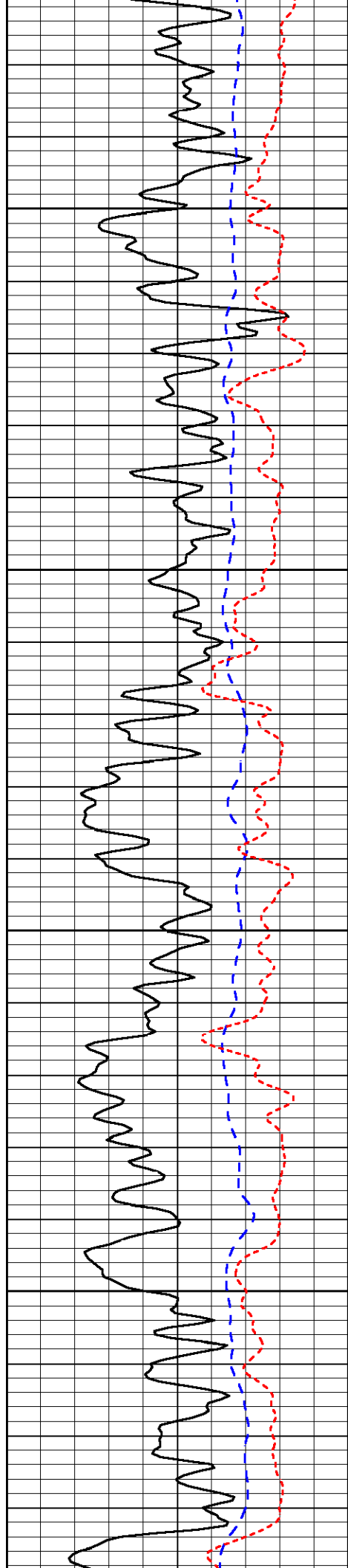


-84

-84

-84

-84

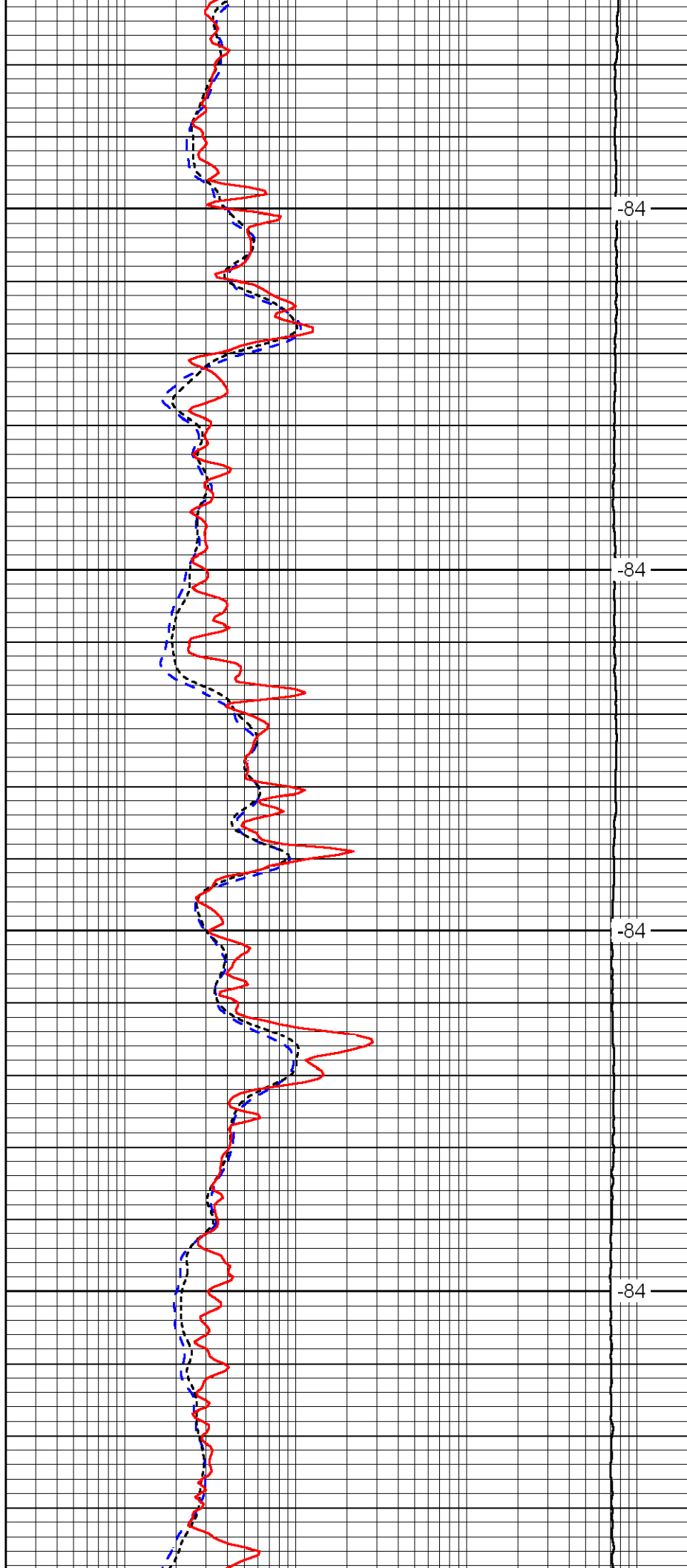


2100

2150

2200

2250

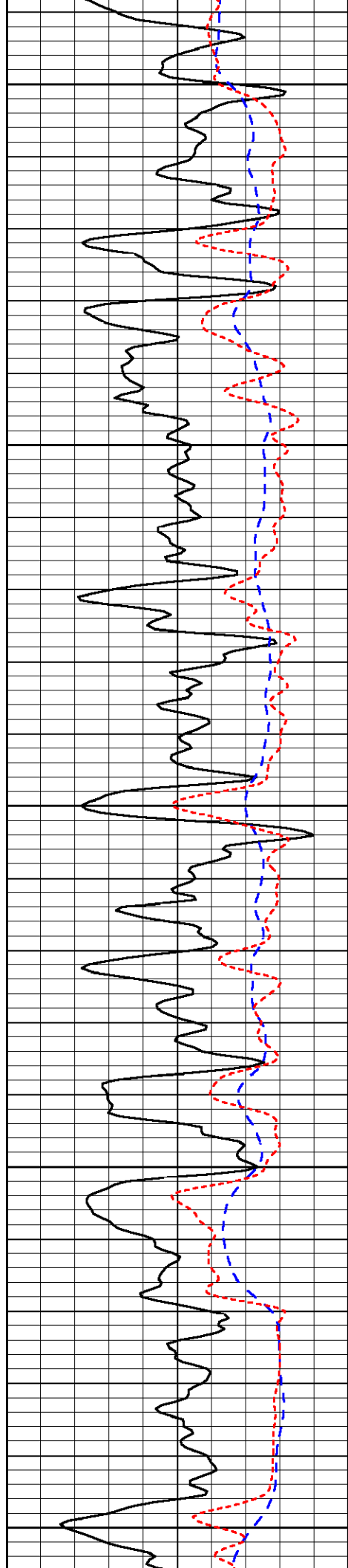


-84

-84

-84

-84



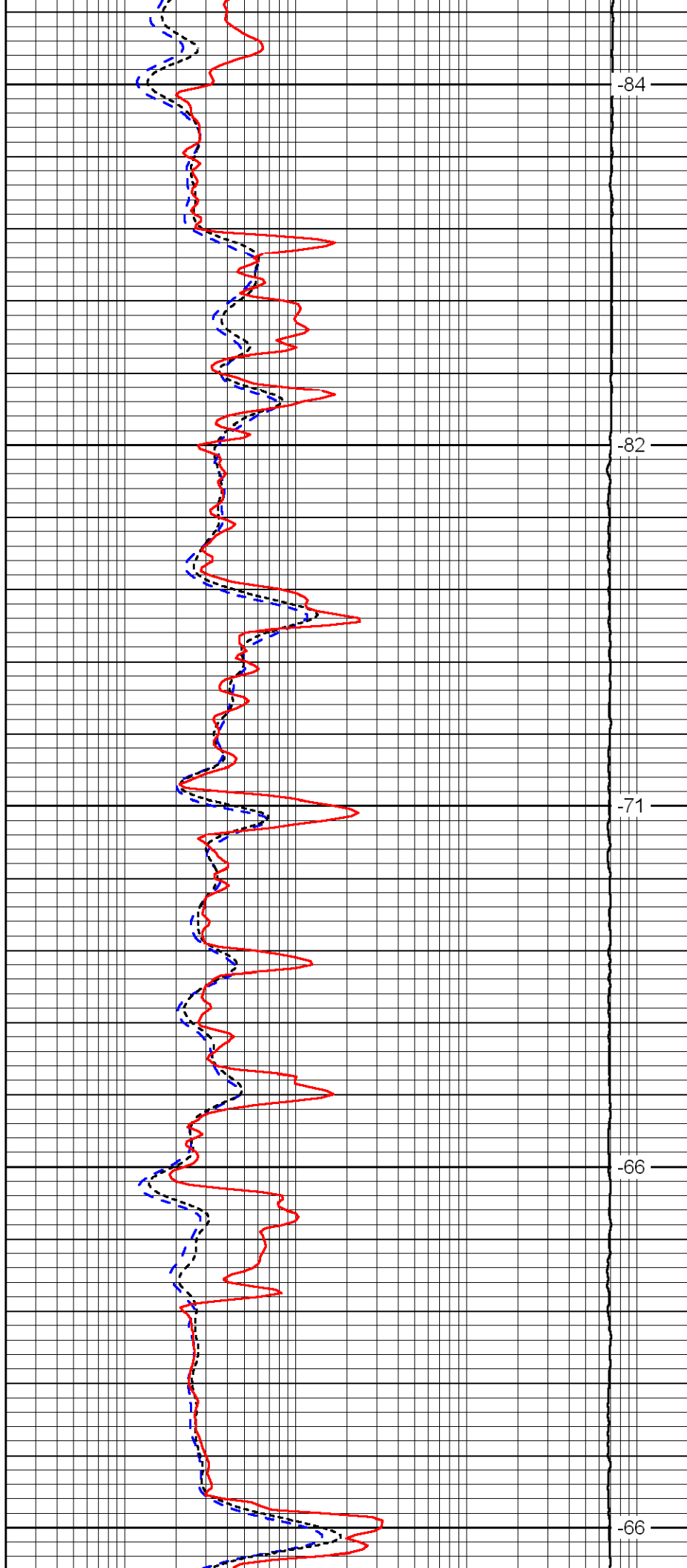
2300

2350

2400

2450

2500



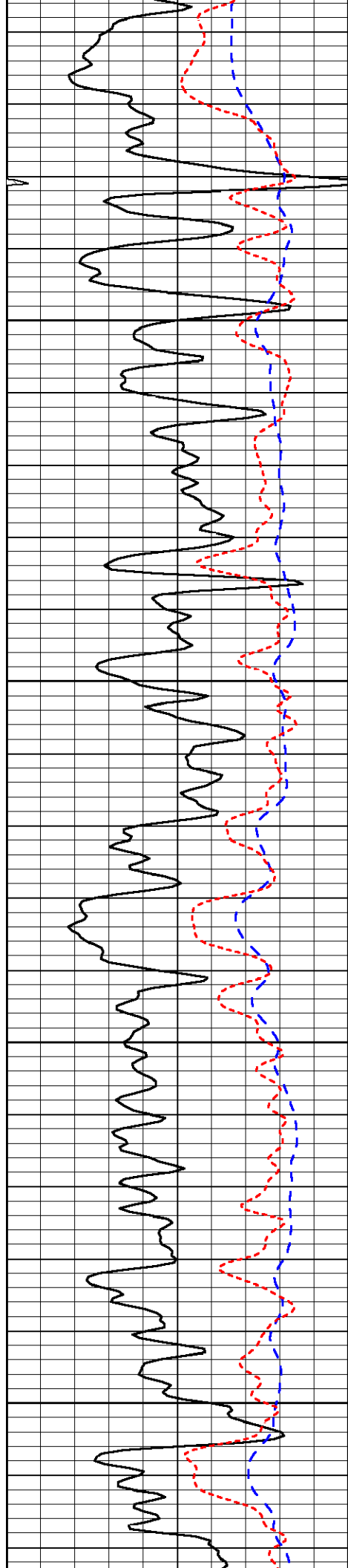
-84

-82

-71

-66

-66

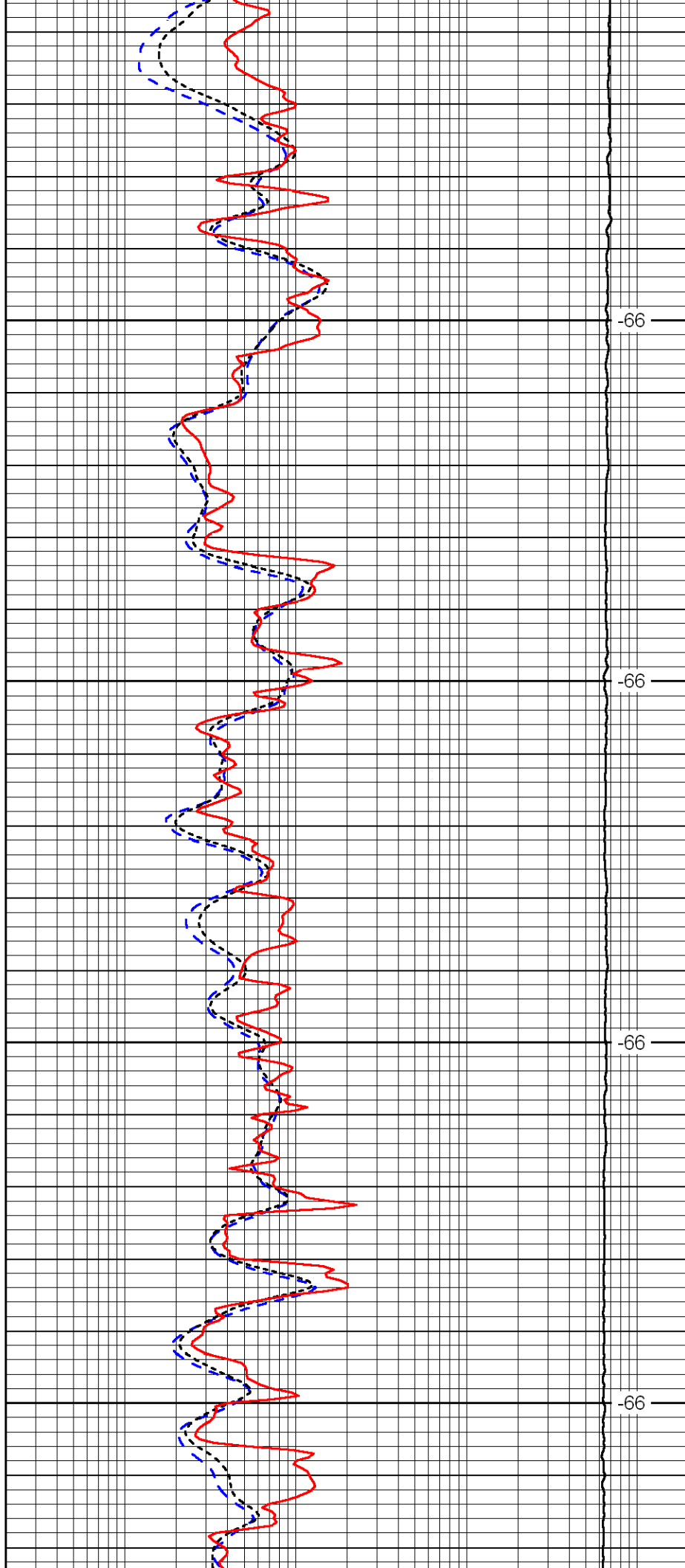


2550

2600

2650

2700

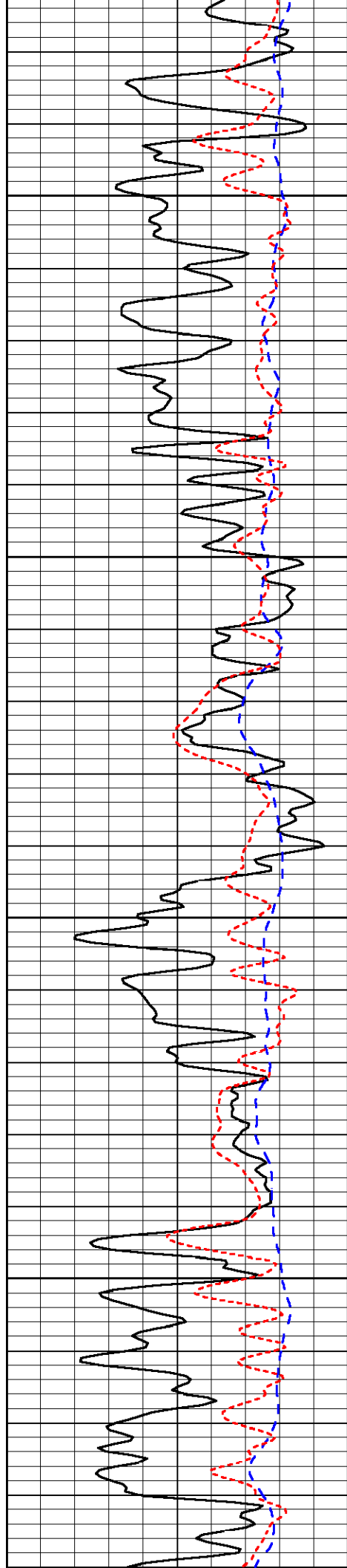


-66

-66

-66

-66

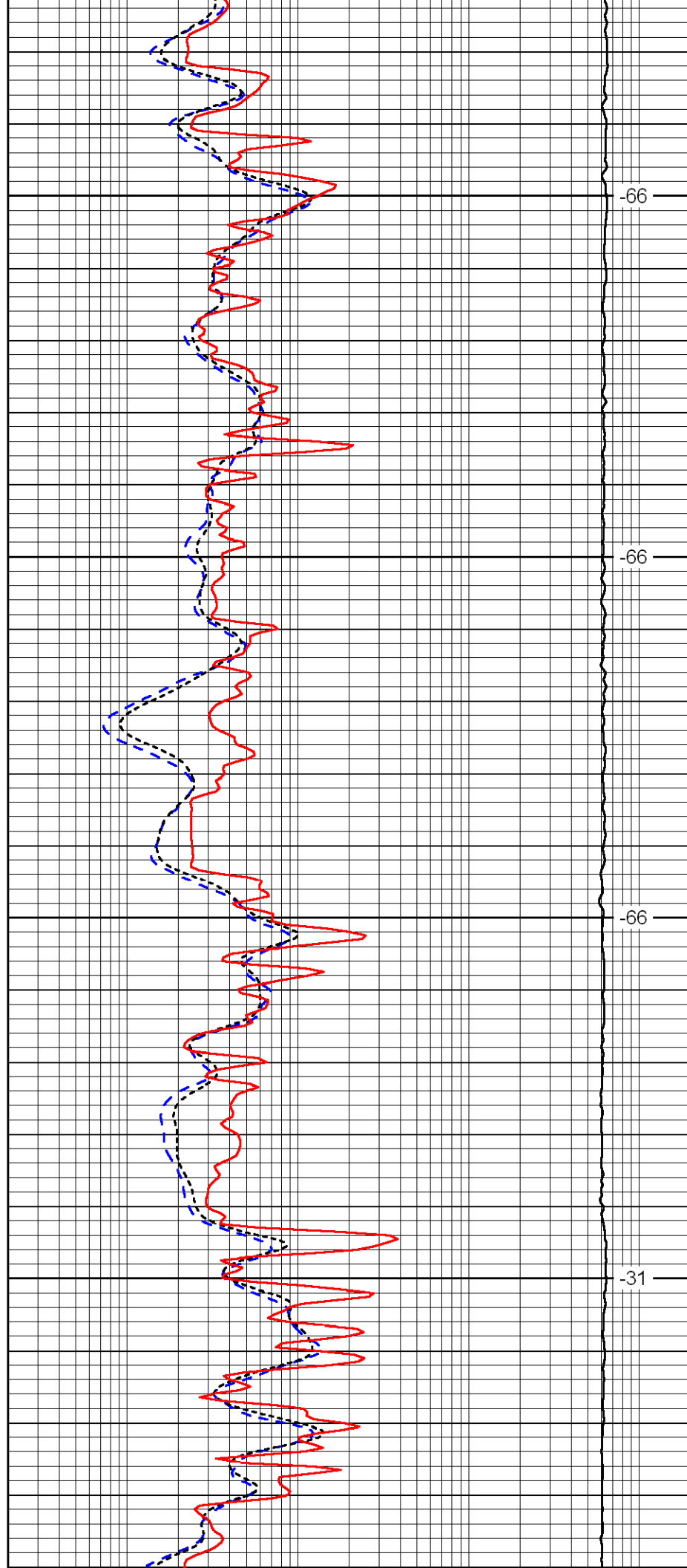


2750

2800

2850

2900

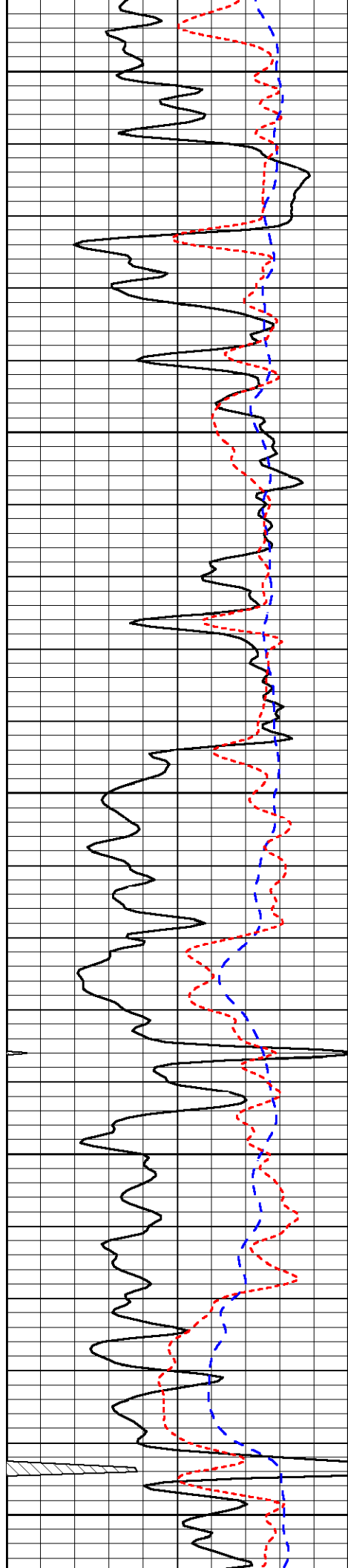


-66

-66

-66

-31



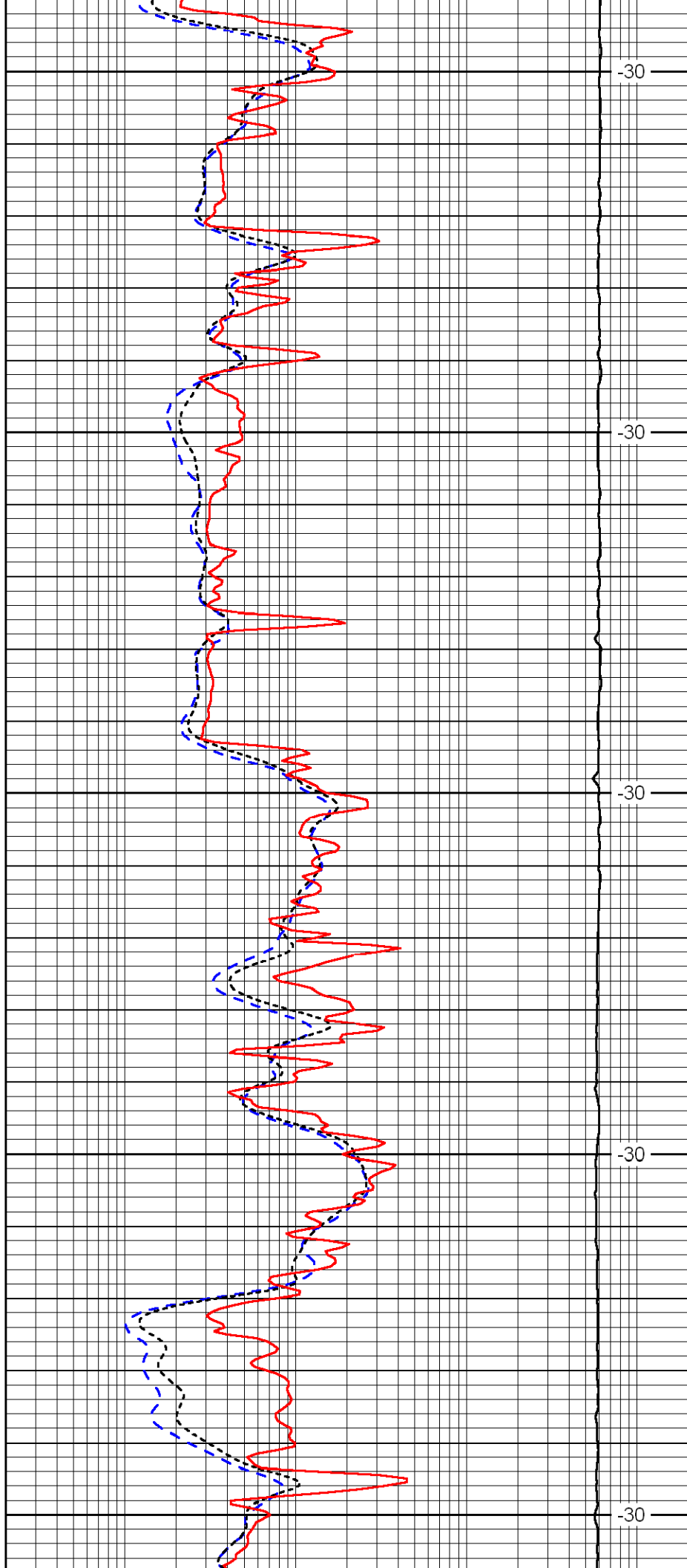
2950

3000

3050

3100

3150



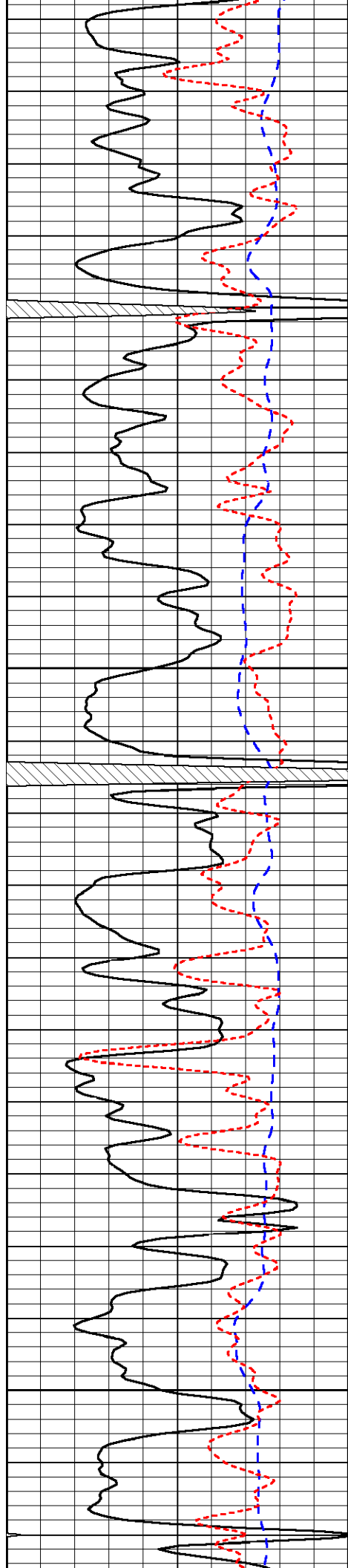
-30

-30

-30

-30

-30

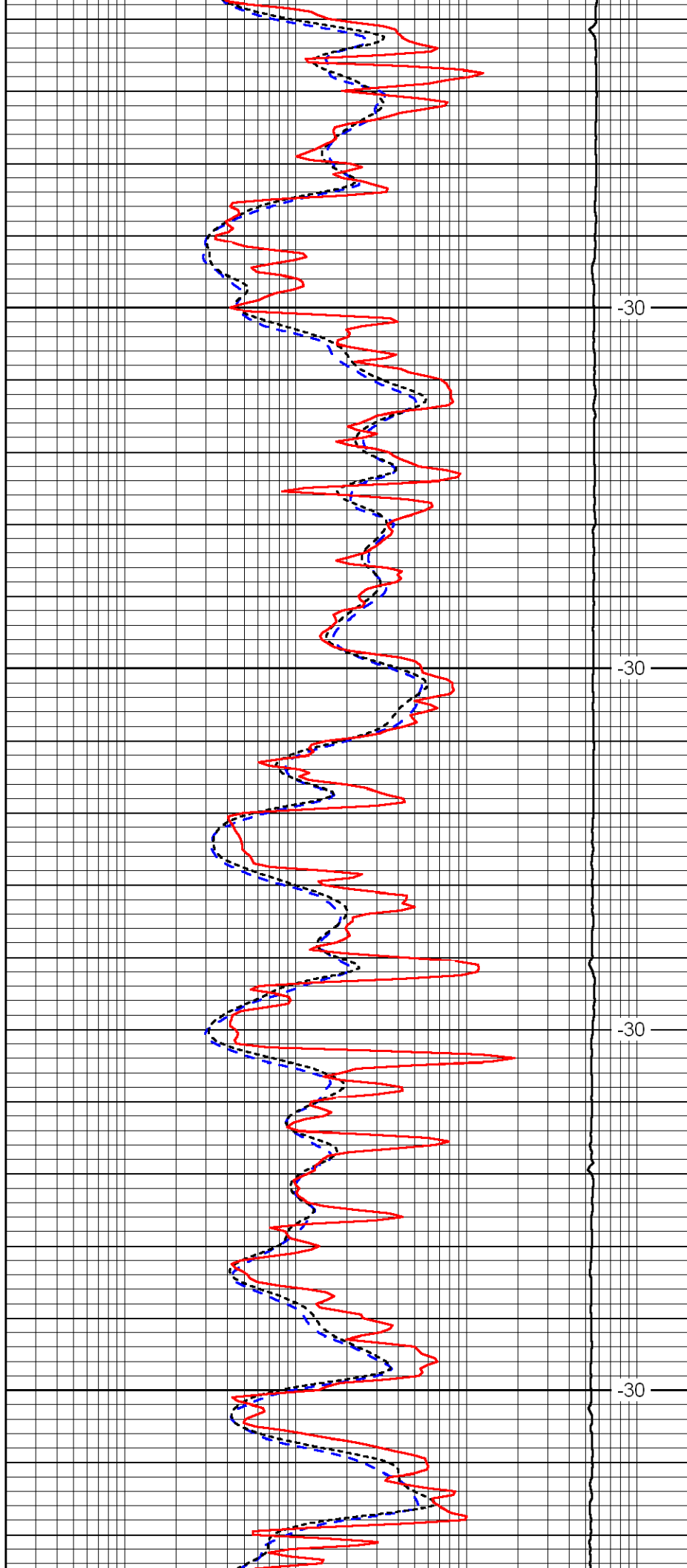


3200

3250

3300

3350

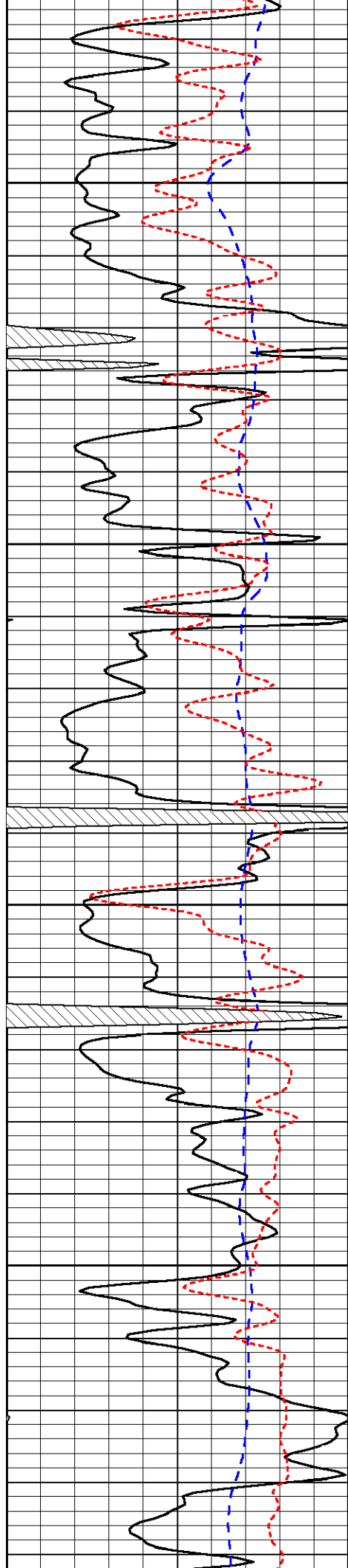


-30

-30

-30

-30

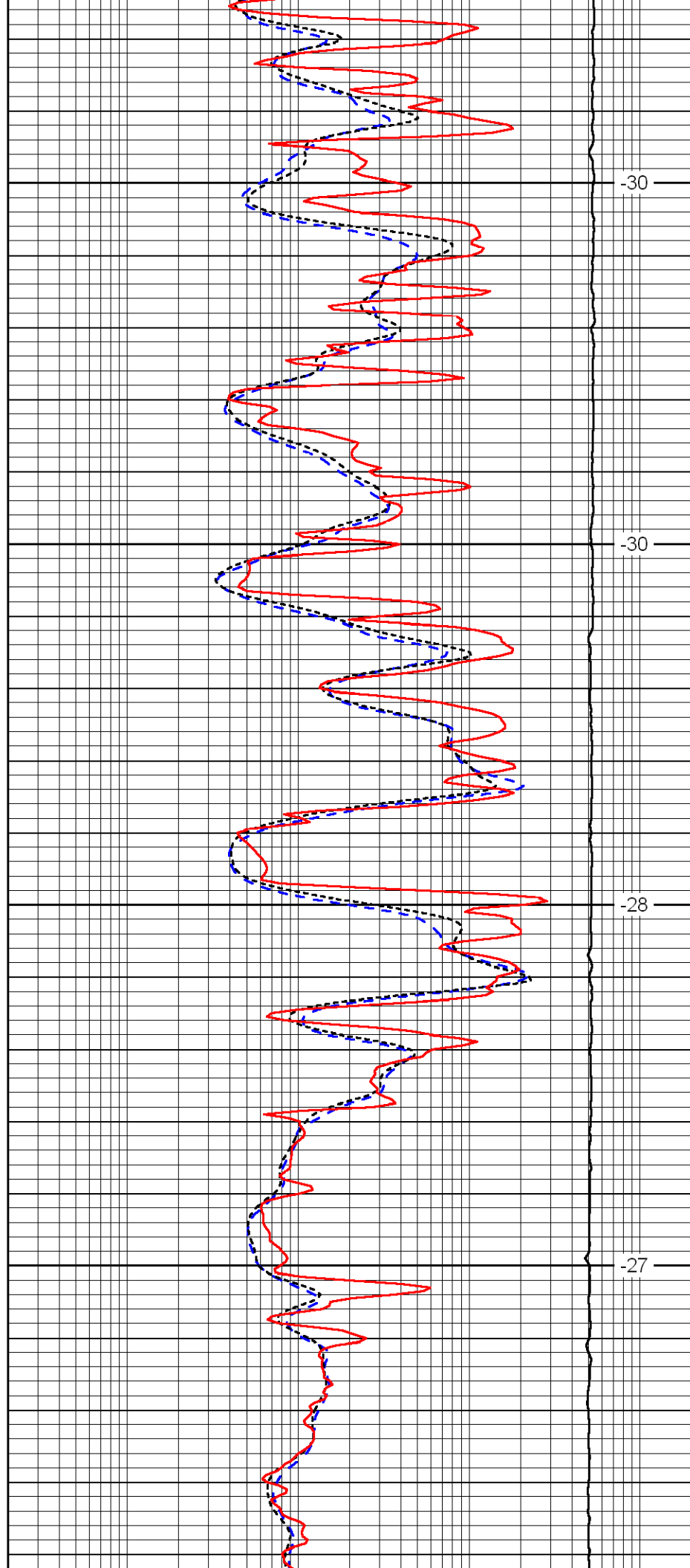


3400

3450

3500

3550

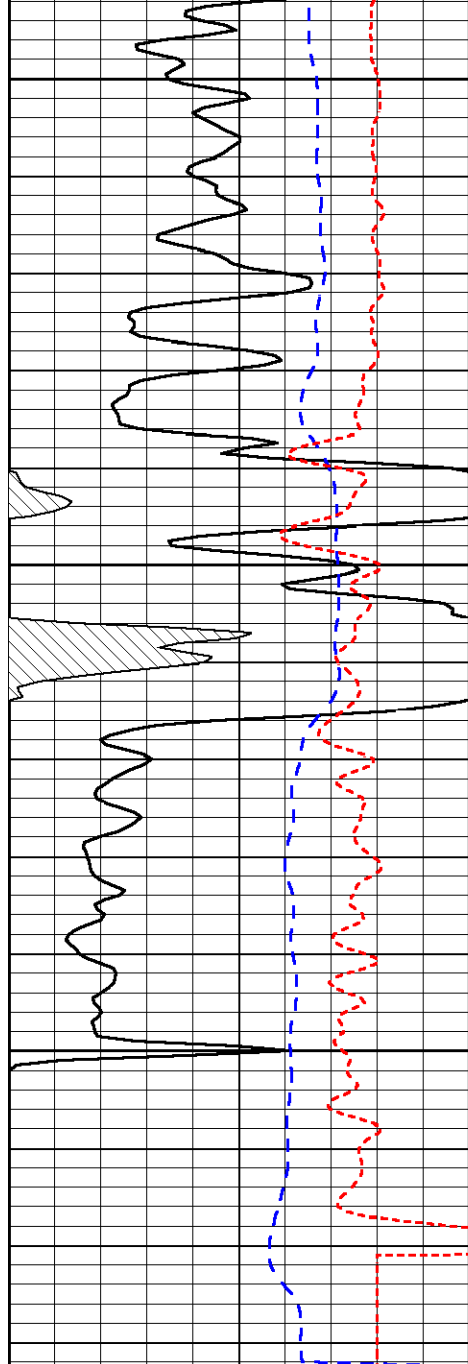


-30

-30

-28

-27

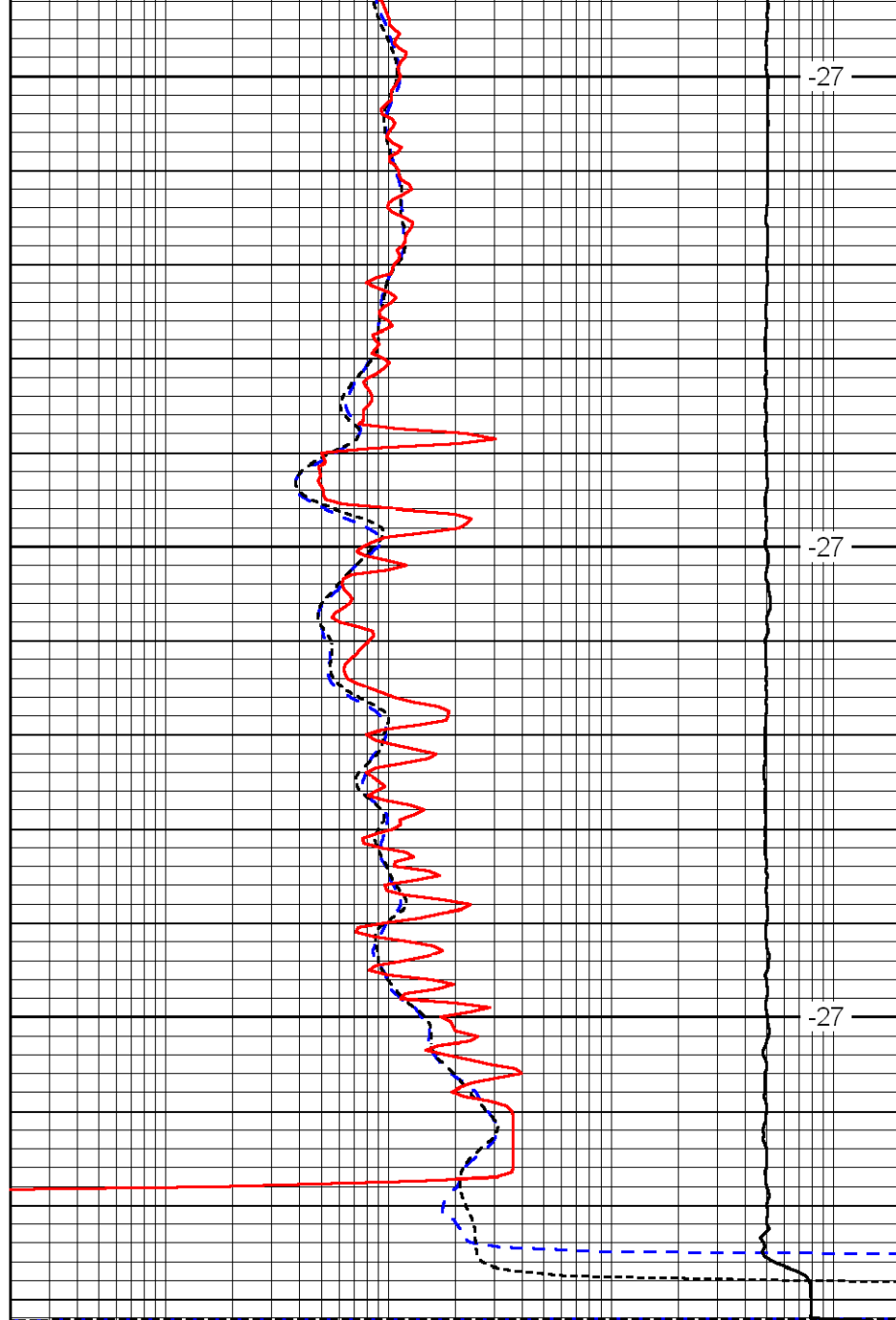


0	Gamma Ray	150
-200	SP (MV)	0
-160	Rxo / Rt	40

3600

3650

3700



0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000
15000	Line Tension (lb)	0

LSPD
(ft/min)