



Dual Induction Log

DIGITAL LOG (785) 625-3858

15-051-26208-00-00

API No.

Company **Murfin Drilling Company, Inc.**

Well **Orth "E" #9**

Field **Stadelman**

County **Ellis** State **Kansas**

Location **1350' FNL / 1050' FWL**

Other Services
CNL / CDL
MEL / BHCS

Sec: **3** Twp: **14S** Rge: **19W**

Permanent Datum **Ground Level** Elevation **2179**

Log Measured From **Kelly Bushing** 5 Ft. Above Perm. Datum

Elevation
K.B. 2184
D.F. 2179
G.L. 2179

Drilling Measured From **Kelly Bushing**

Date **11/10/2011**

Run Number **One**

Depth Driller **3935**

Depth Logger **3940**

Bottom Logged Interval **3939**

Top Log Interval **0**

Casing Driller **8.625 @ 220**

Casing Logger **220**

Bit Size **7.875**

Type Fluid in Hole **Chemical**

Salinity, ppm CL **9600**

Density / Viscosity **9.1 69**

pH / Fluid Loss **10.5 6.8**

Source of Sample **Flowline**

Rm @ Meas. Temp **0.80 @ 60**

Rmf @ Meas. Temp **0.60 @ 60**

Rmc @ Meas. Temp **1.08 @ 60**

Source of Rmf / Rmc **Charts**

Rm @ BHT **0.42 @ 115**

Operating Rig Time **5 Hours**

Max Rec. Temp. F **115**

Equipment Number **15**

Location **Hays**

Recorded By **R. Barnhart**

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

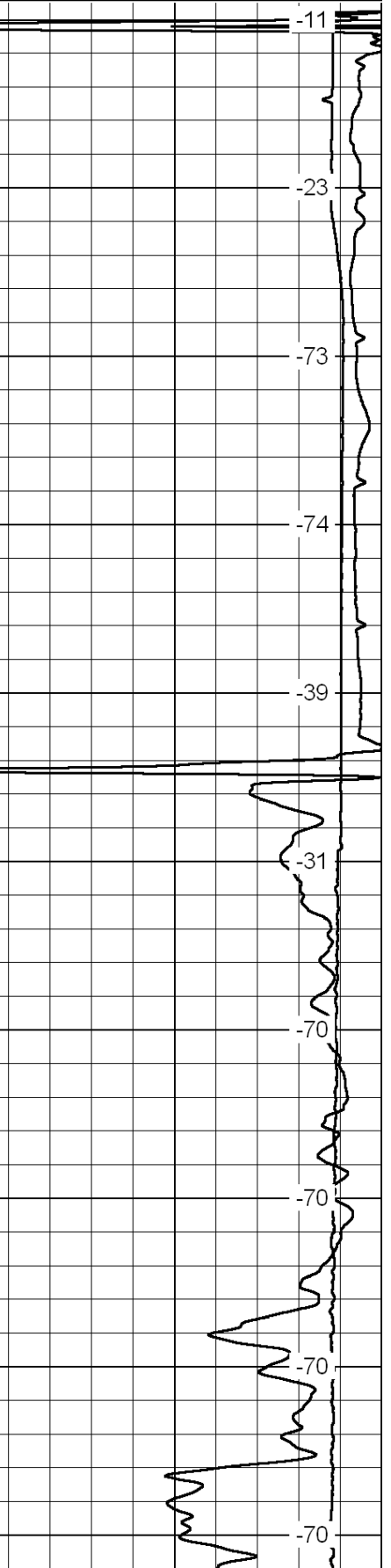
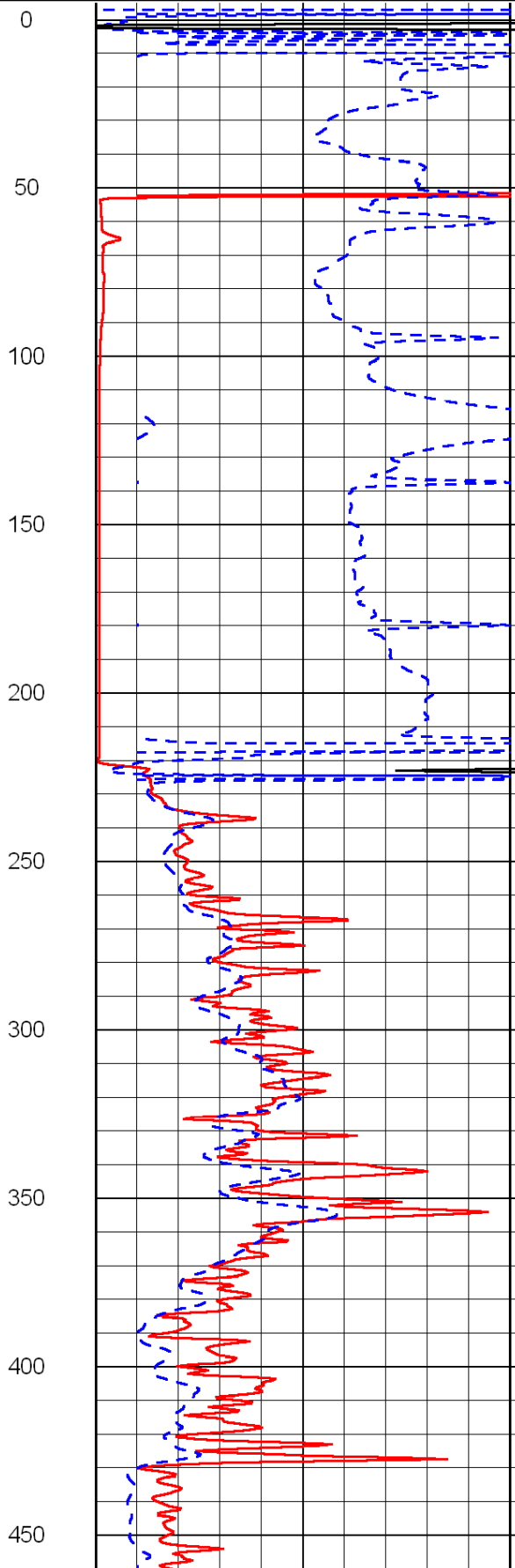
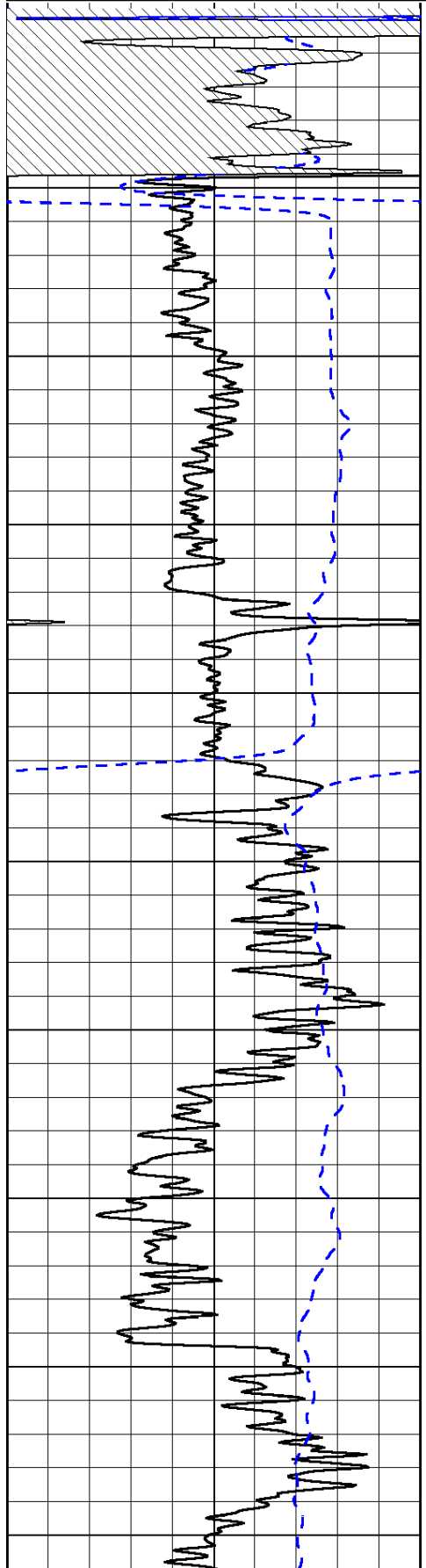
Hays, KS:
Yocemento Rd & Golf Course Rd:
1/2N, E into

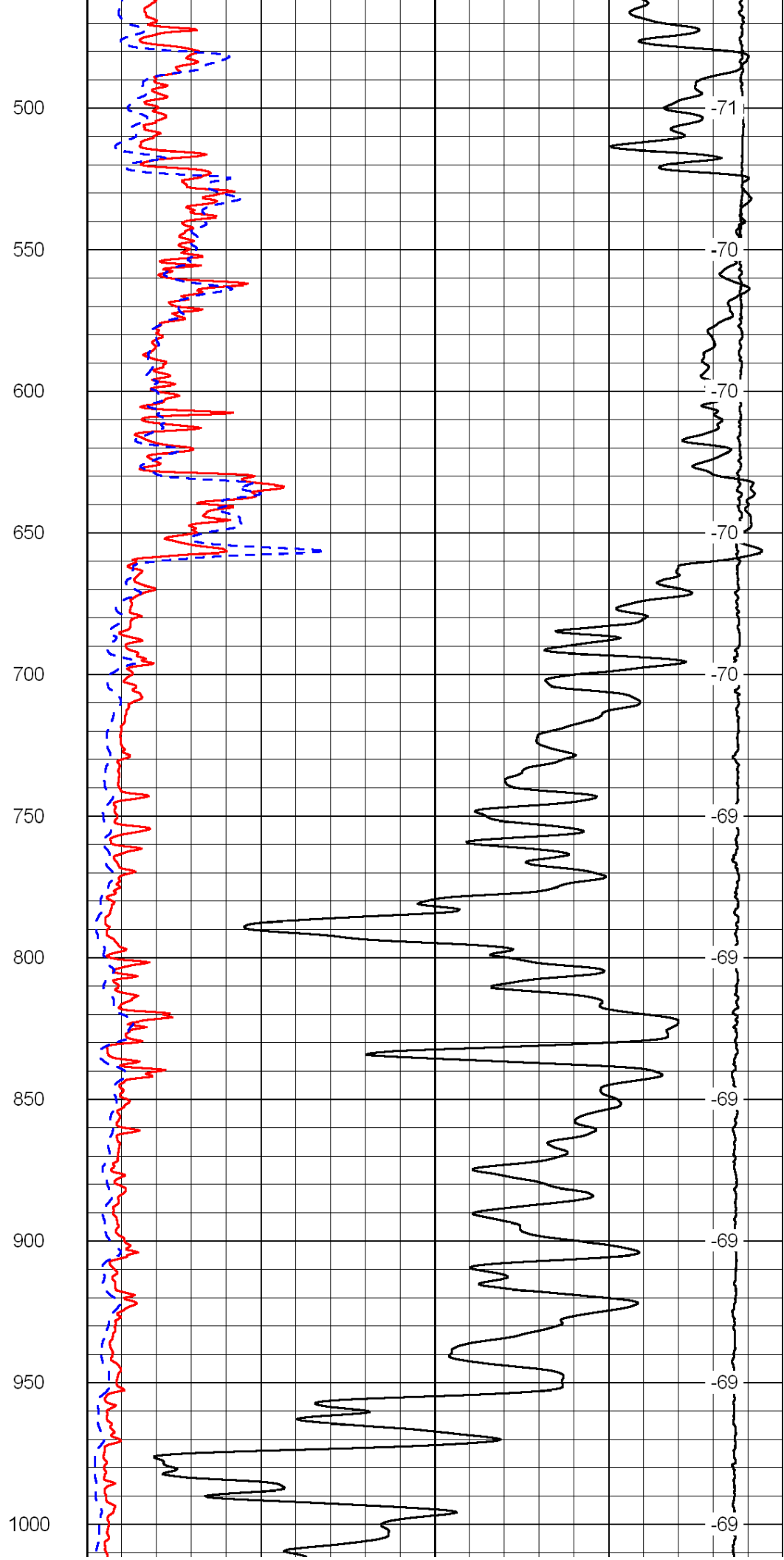
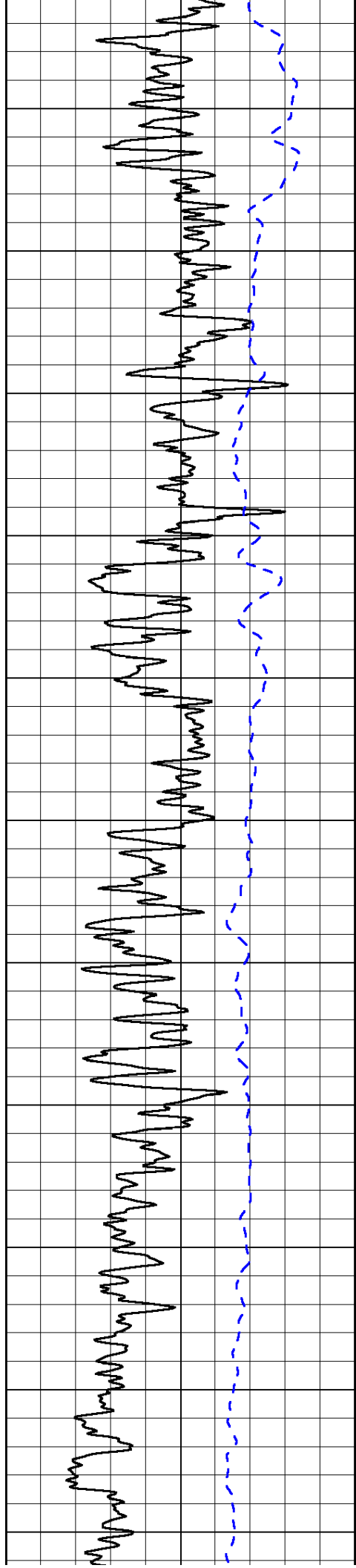
Database File: c:\warrior\data\murfin_orth 'e' #9\murfinhd.db
Dataset Pathname: dil/mrfmain
Presentation Format: dil2in
Dataset Creation: Thu Nov 10 19:57:40 2011
Charted by: Depth in Feet scaled 1:600

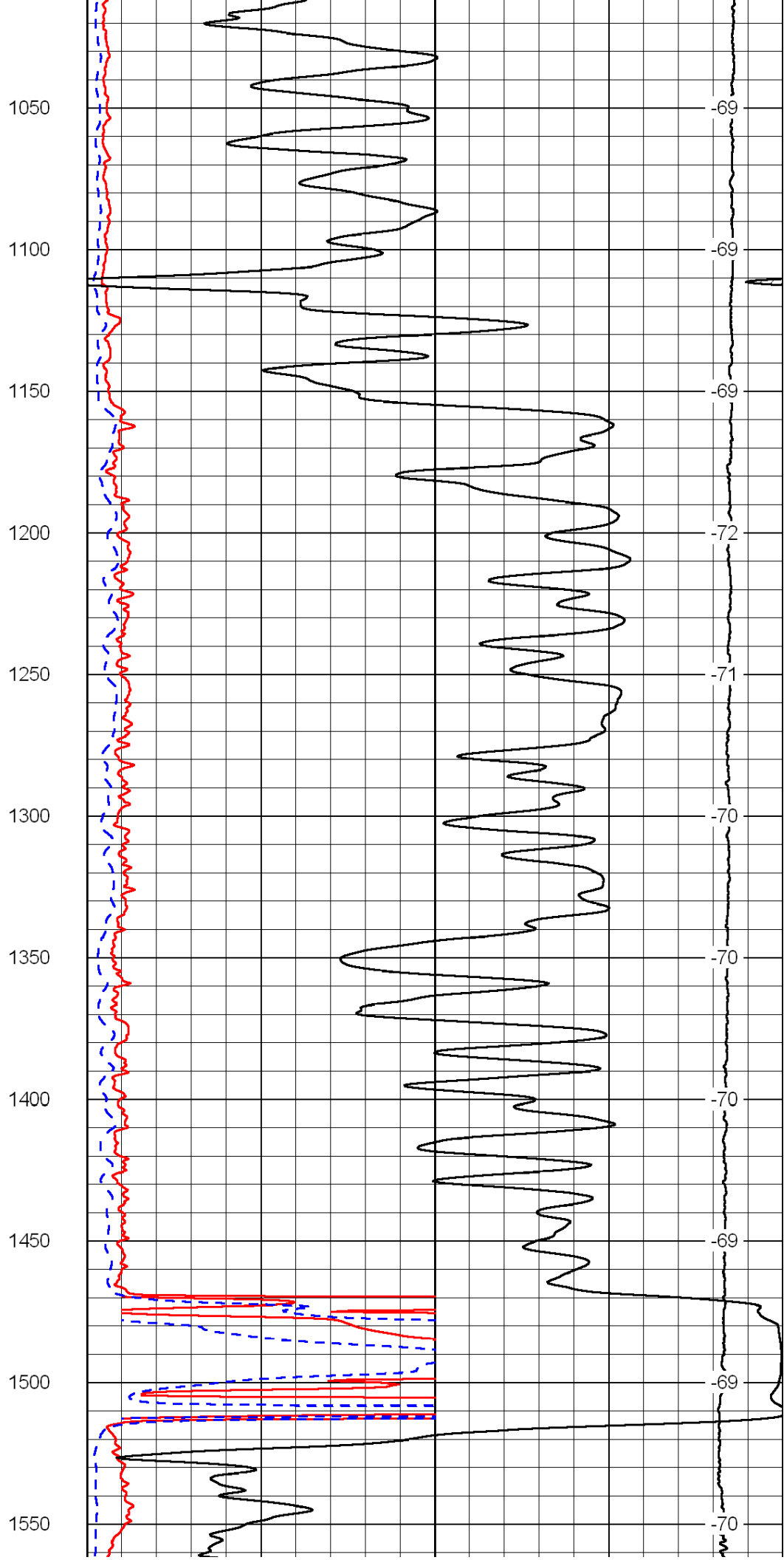
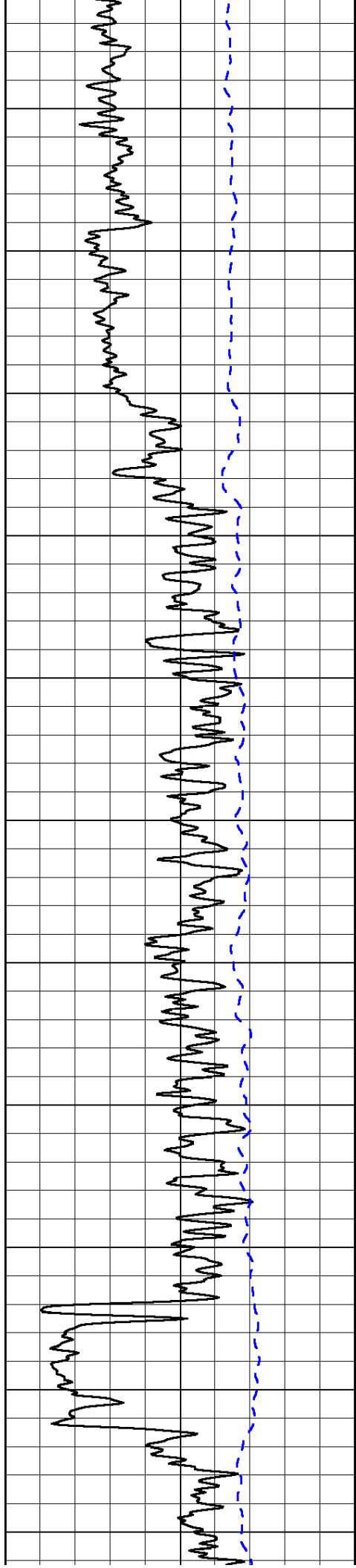
0	Gamma Ray	150
-200	SP (mV)	0

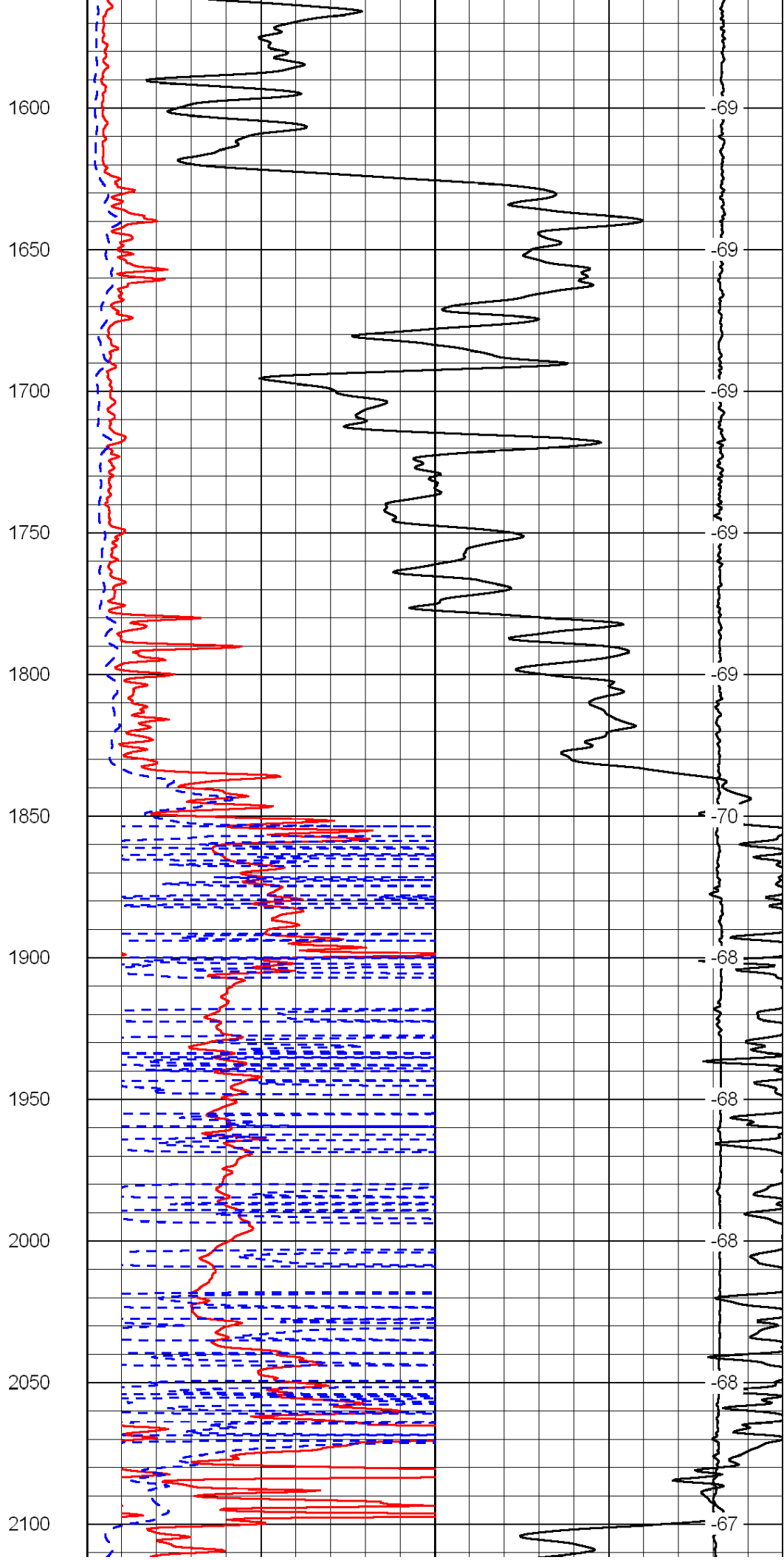
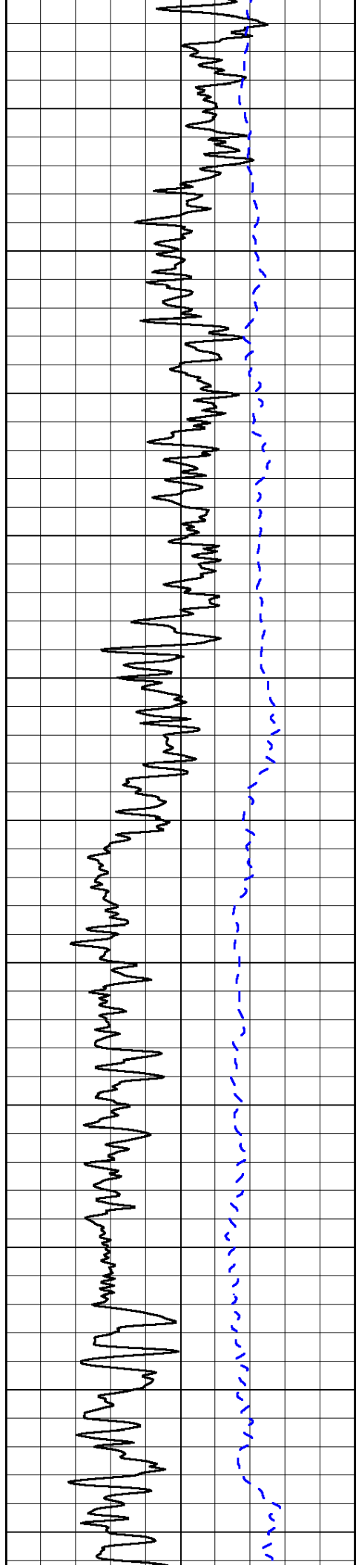
0	Shallow Resistivity	50
0	Deep Resistivity	50
1000	Conductivity	0
15000	Line Tension	0
50	Shallow Resistivity	500
50	Deep Resistivity	500

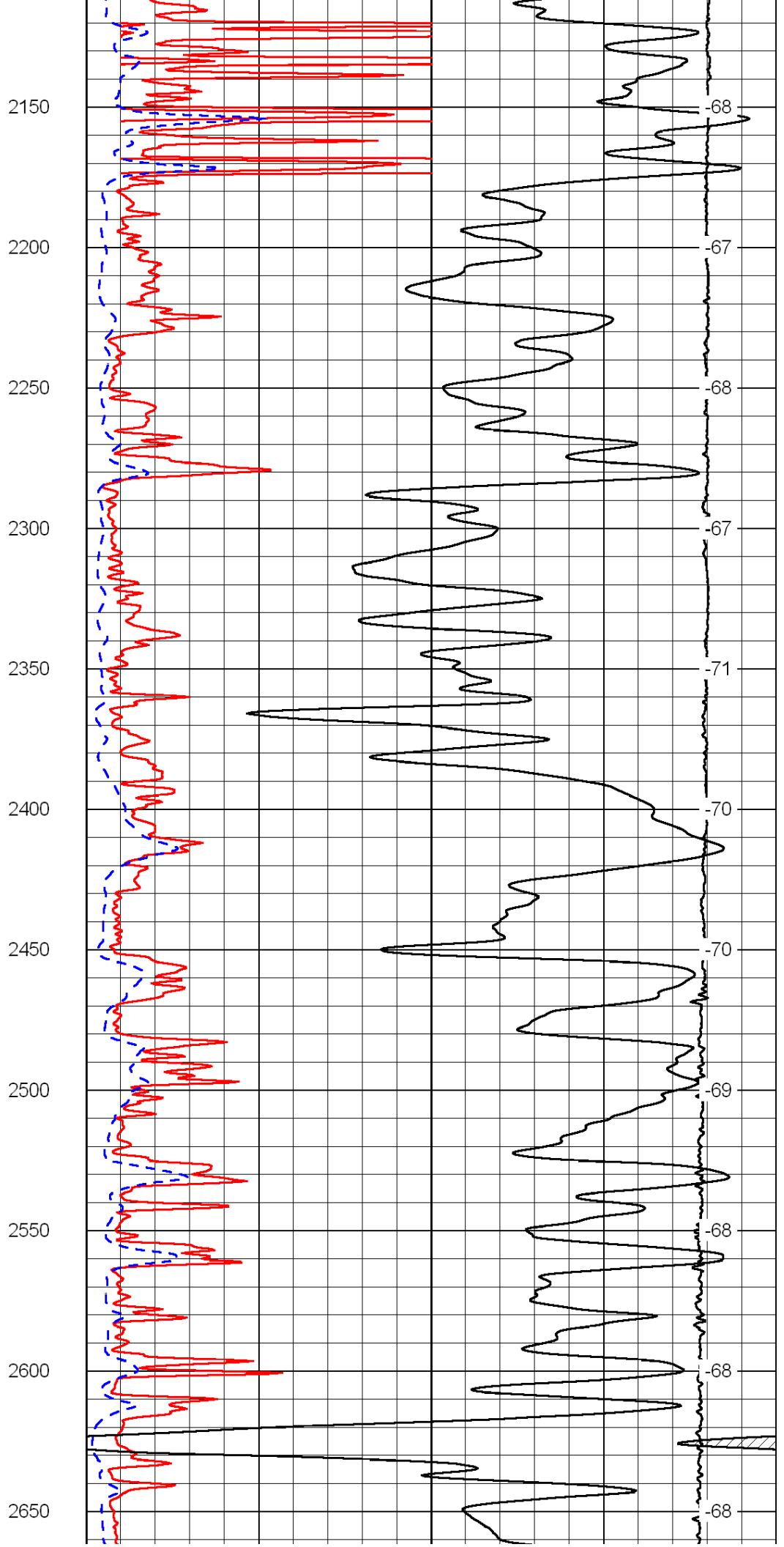
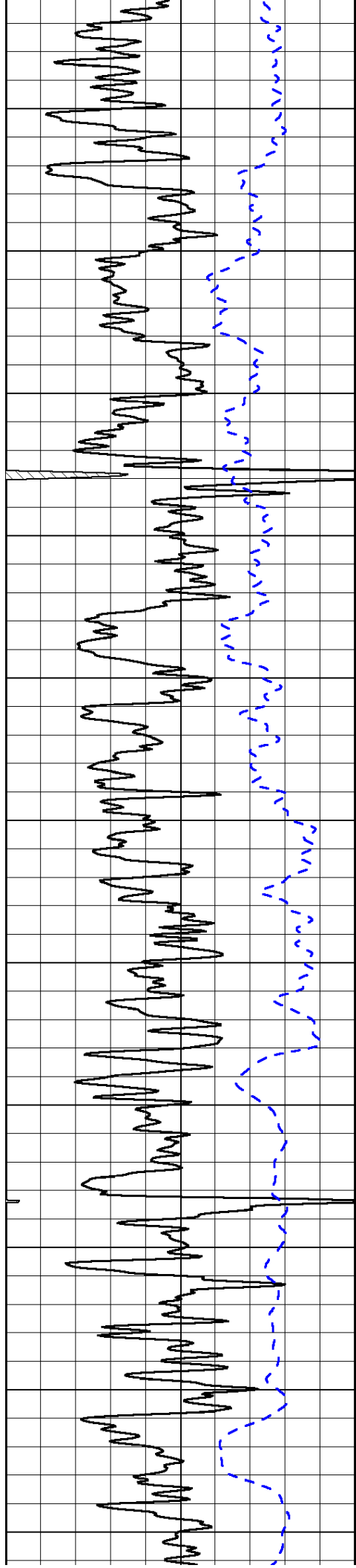
LSPD	0
------	---

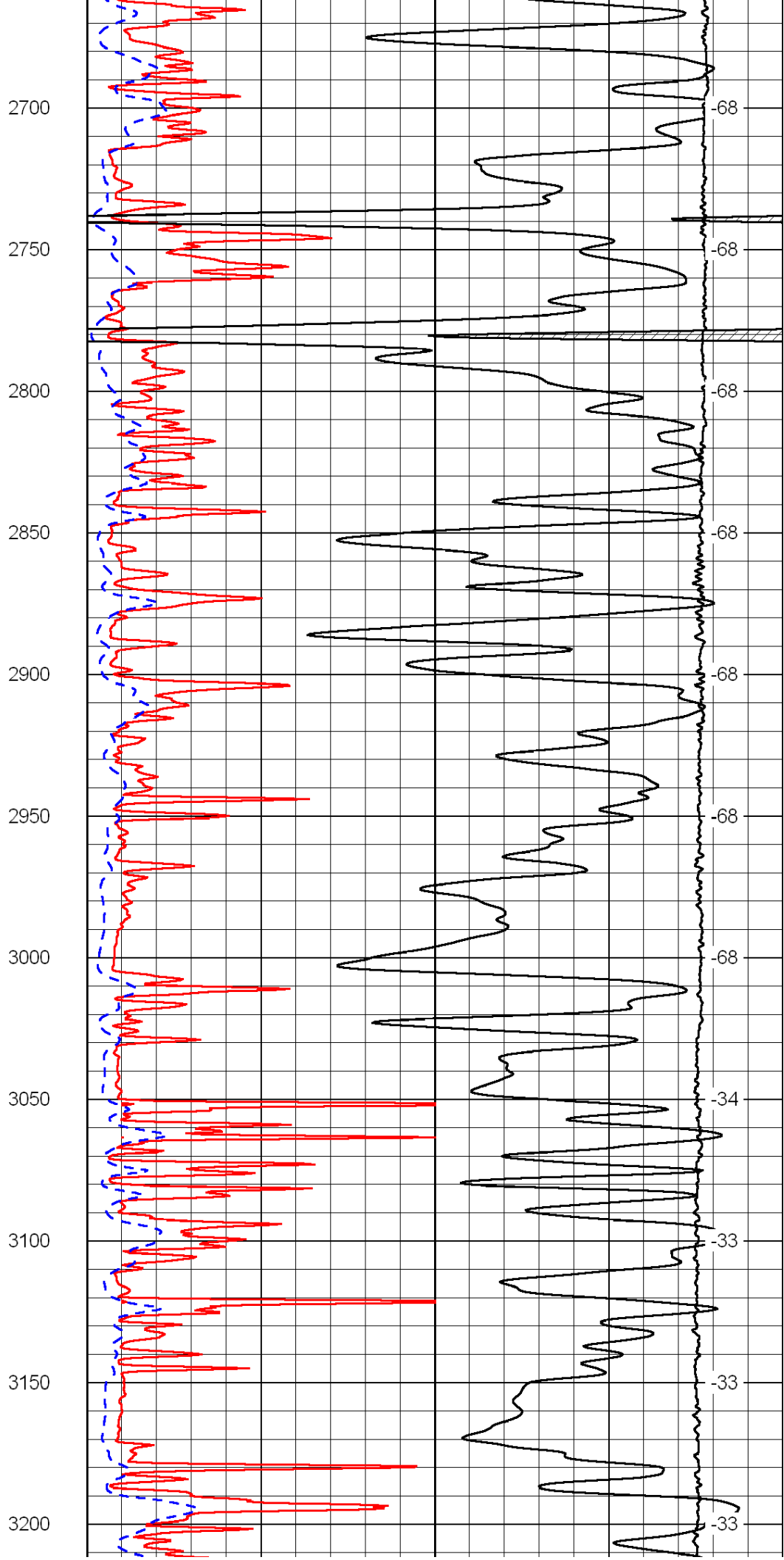
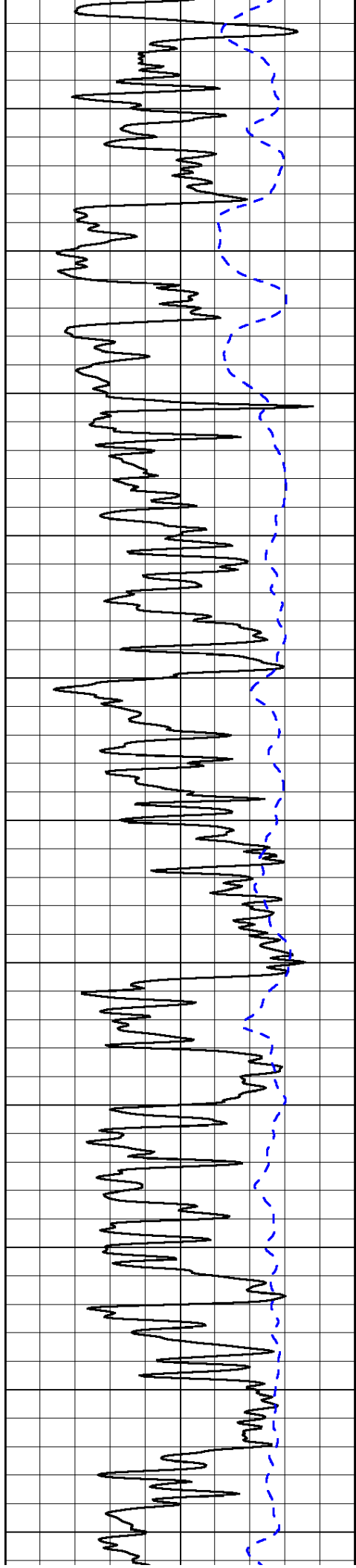


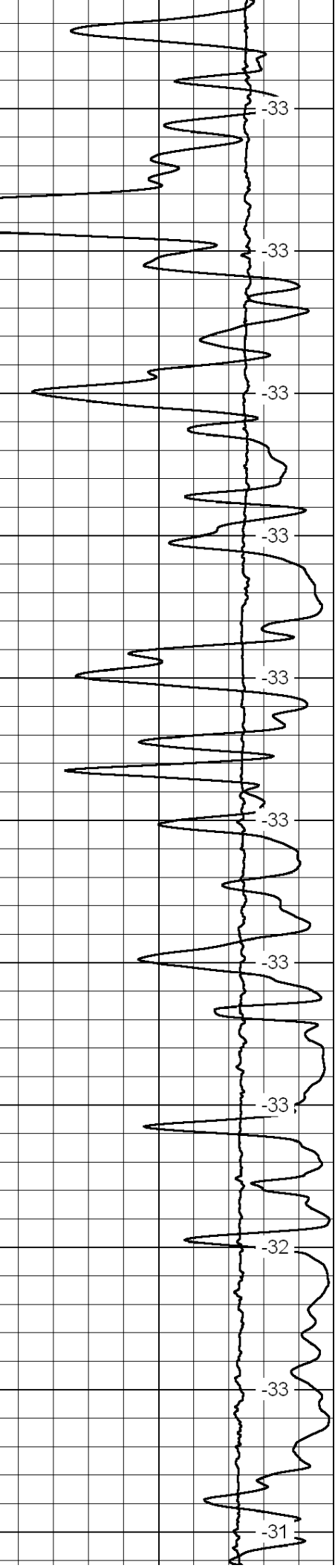
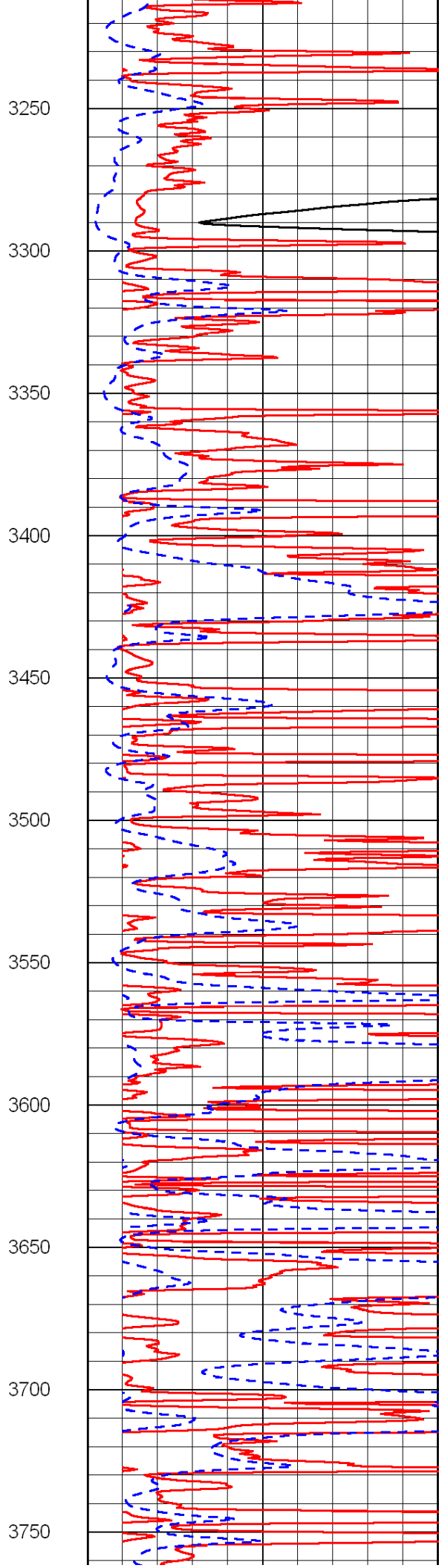
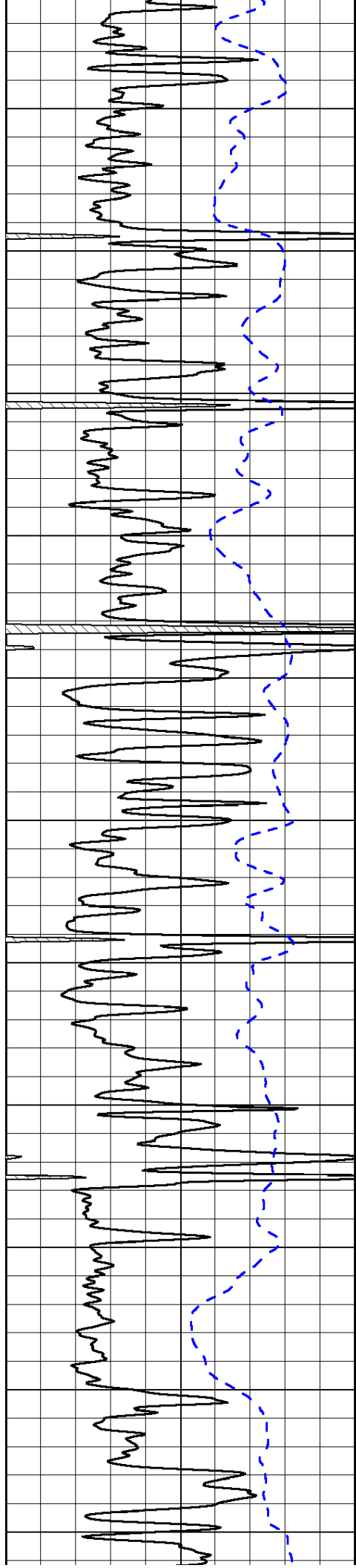


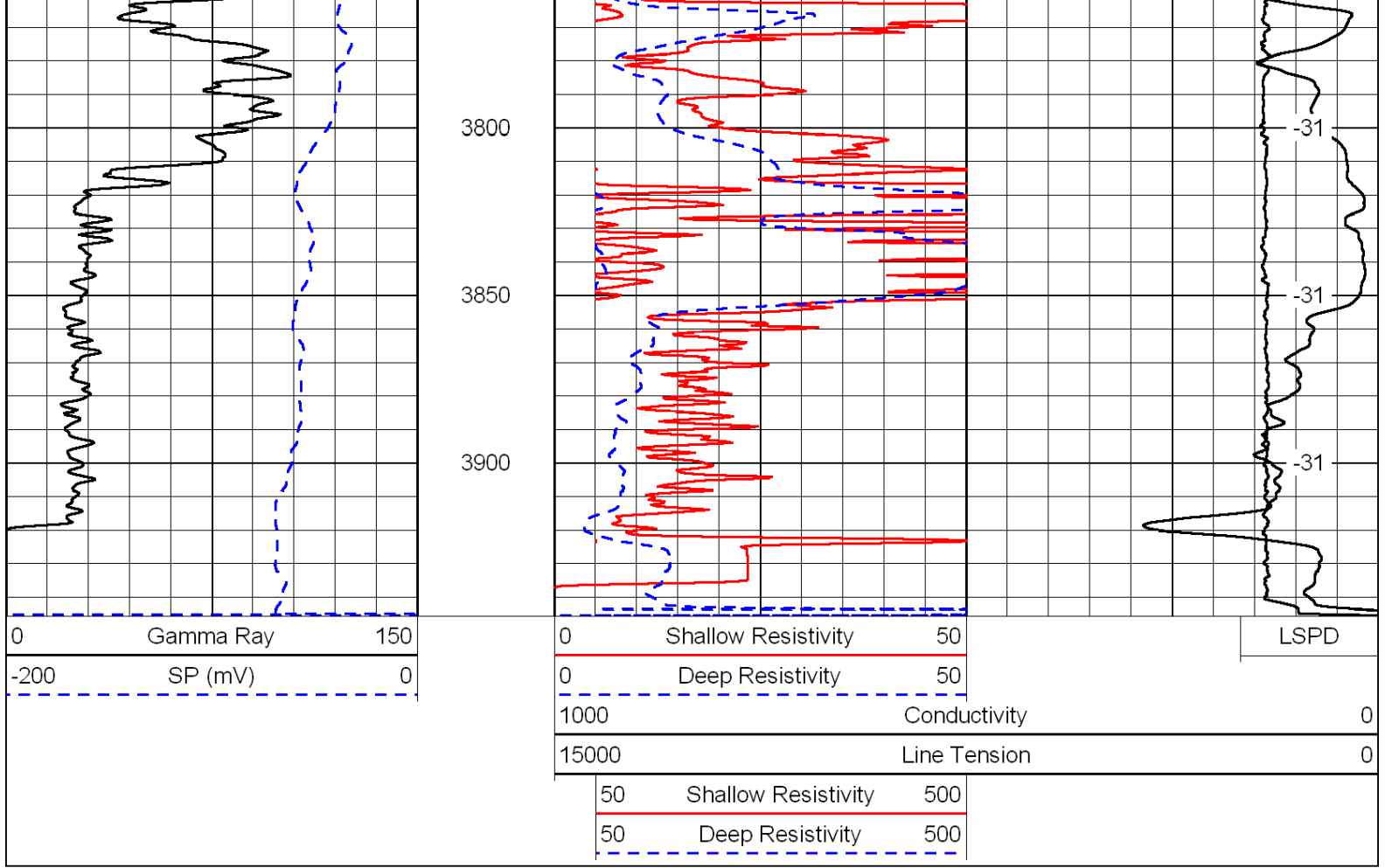




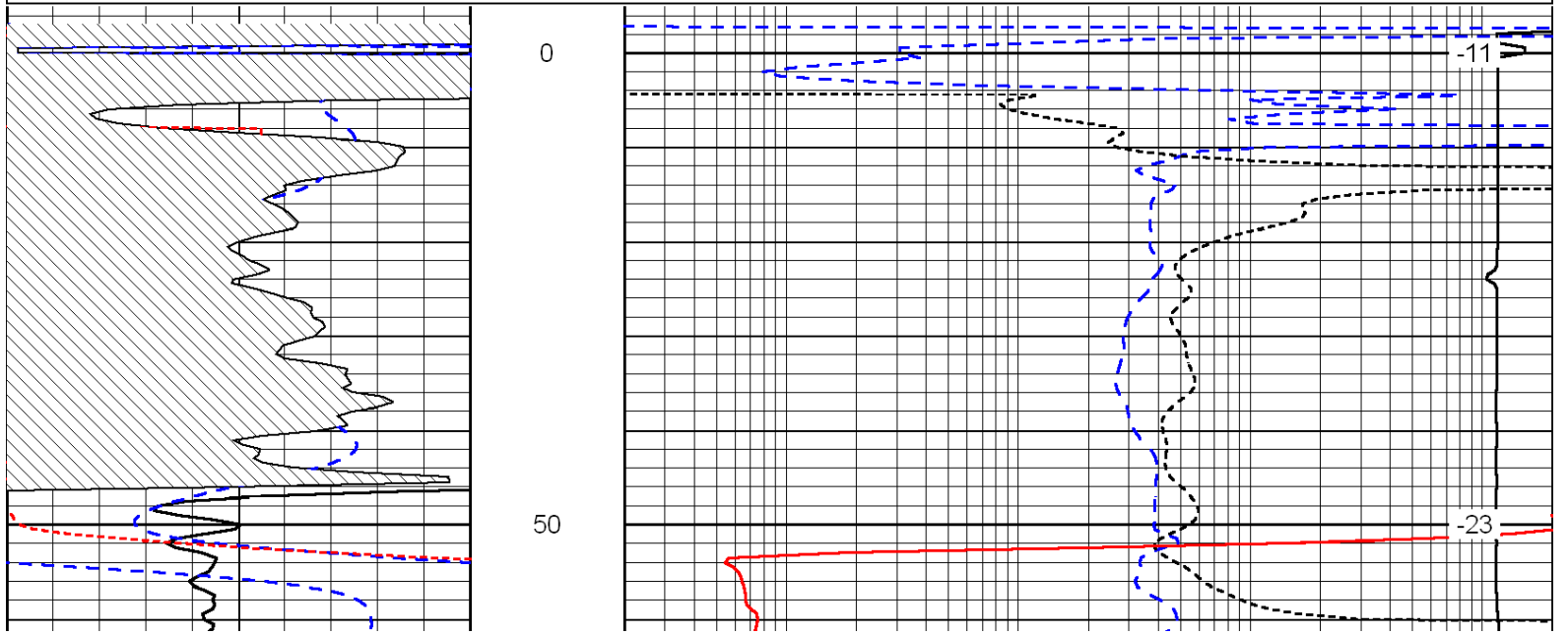
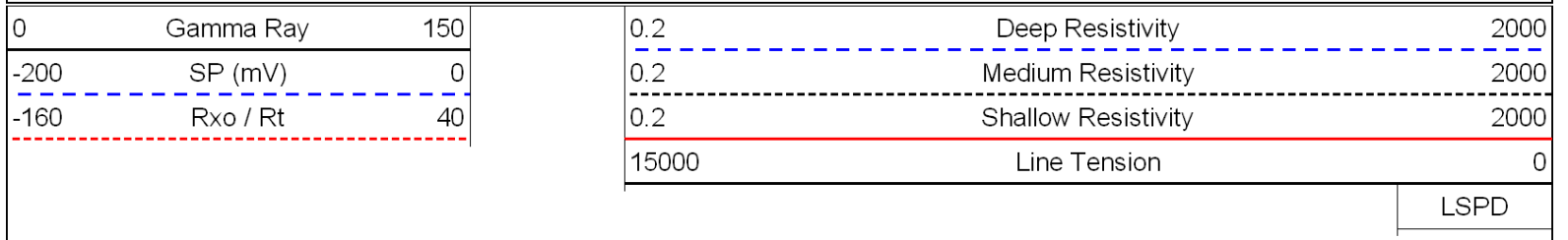


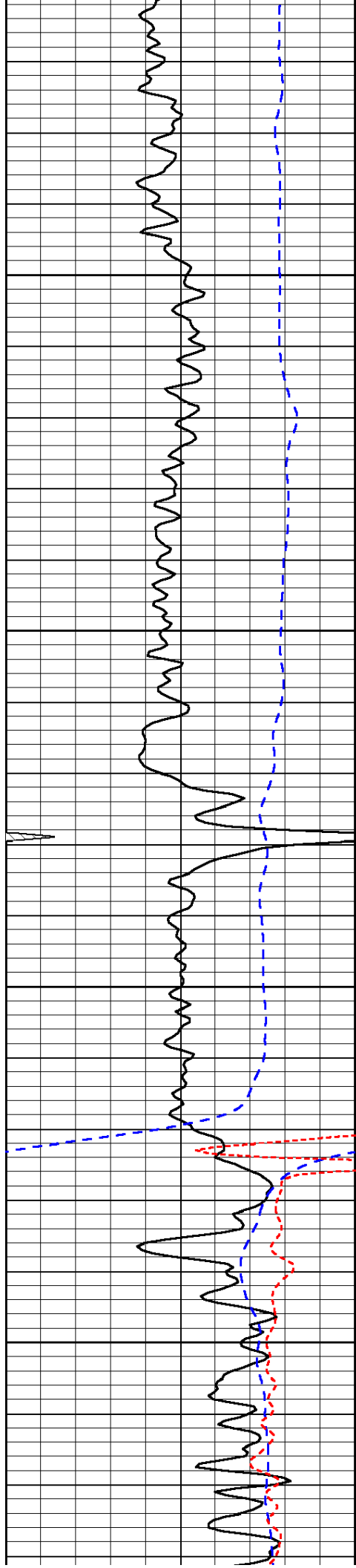






Database File: c:\warrior\data\murfin_orth 'e' #9\murfinhd.db
 Dataset Pathname: dil/mrfmain
 Presentation Format: dil
 Dataset Creation: Thu Nov 10 19:57:40 2011
 Charted by: Depth in Feet scaled 1:240



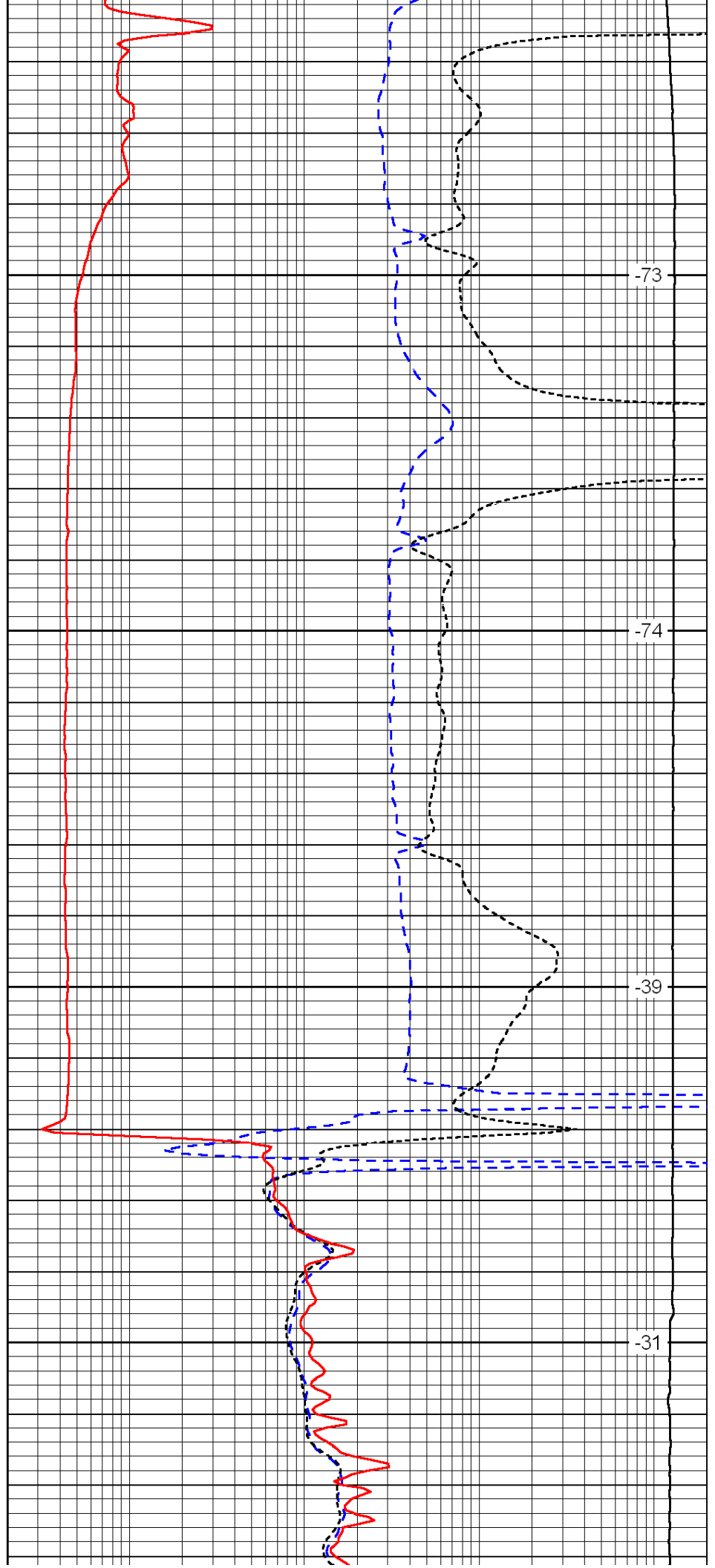


100

150

200

250

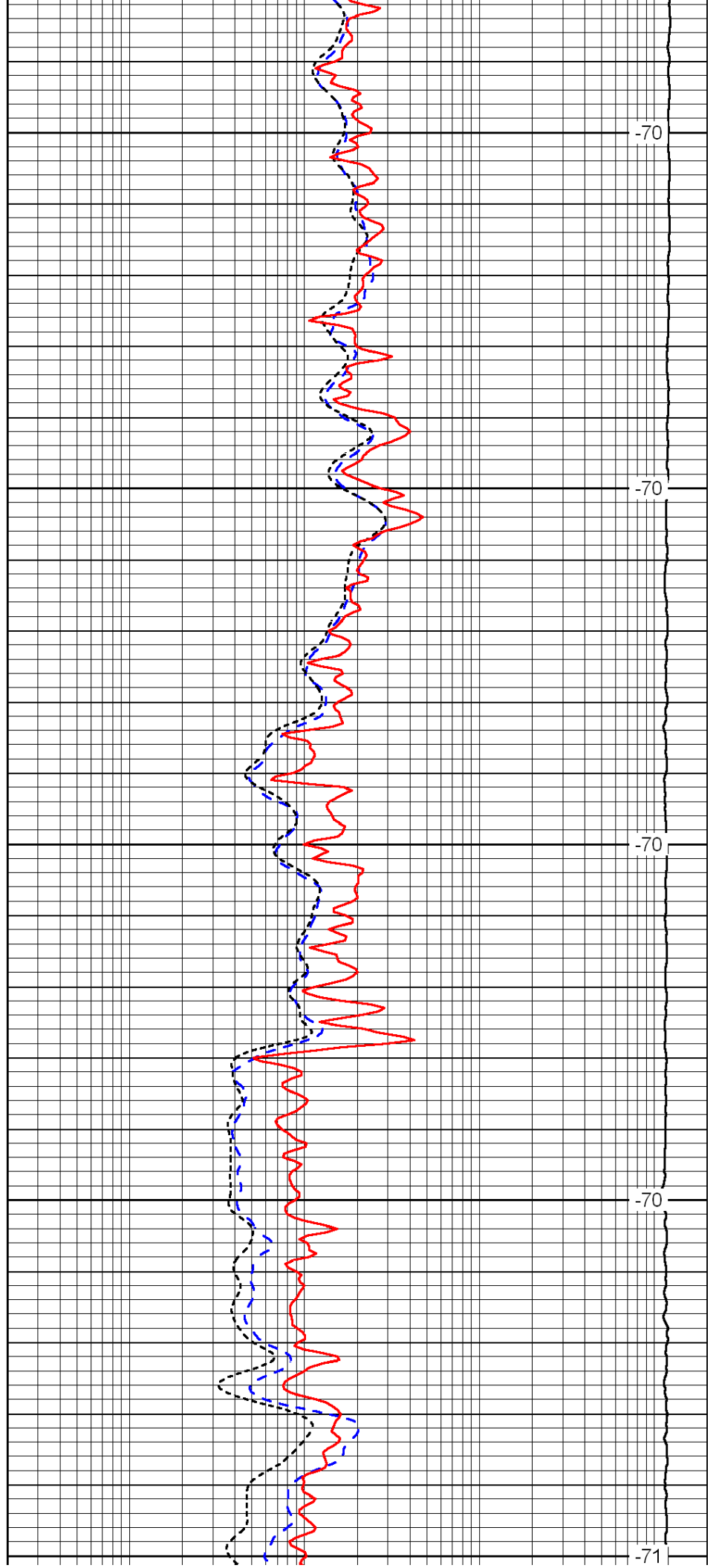
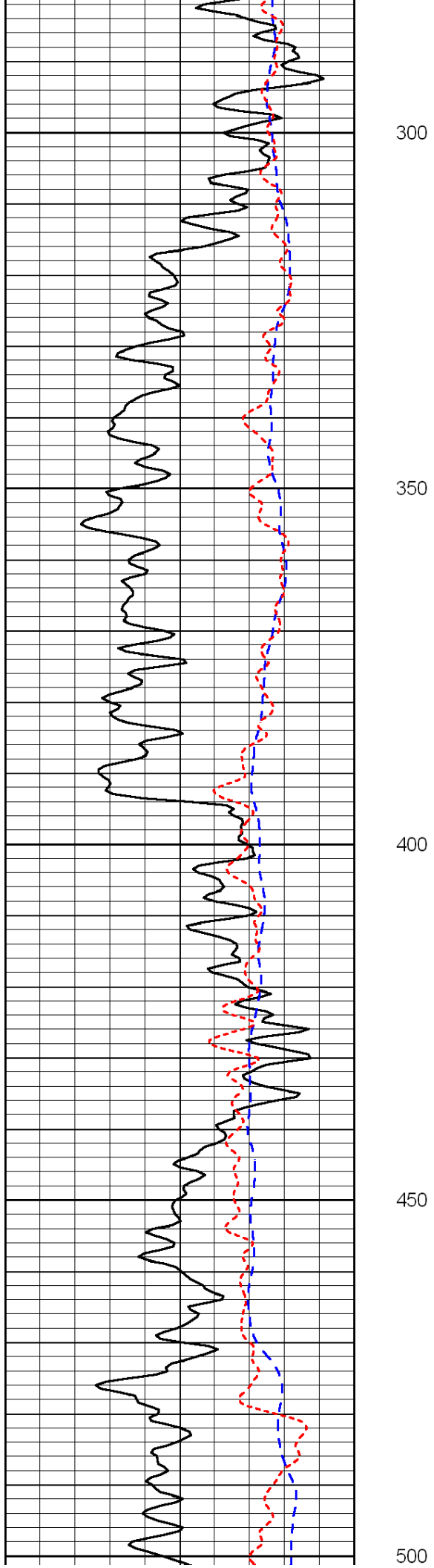


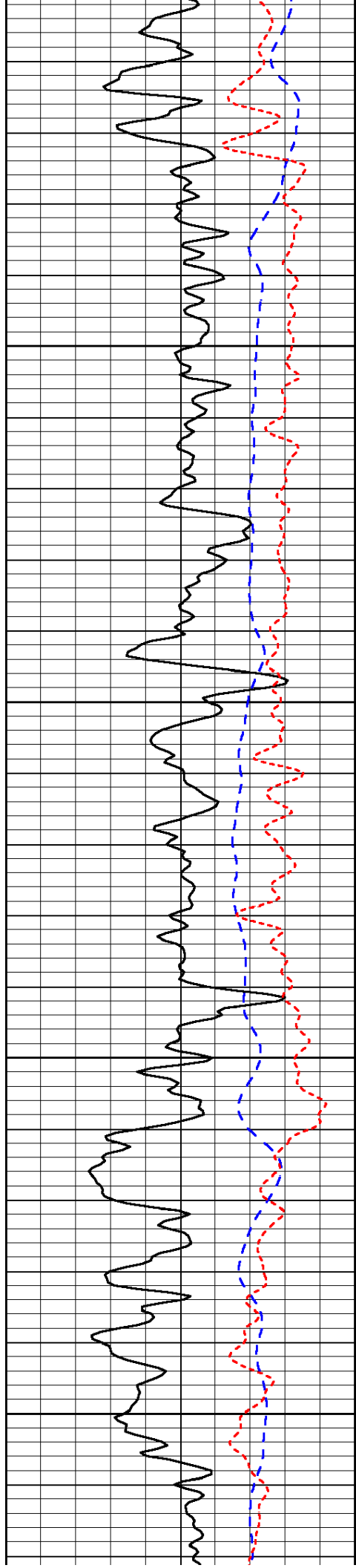
-73

-74

-39

-31



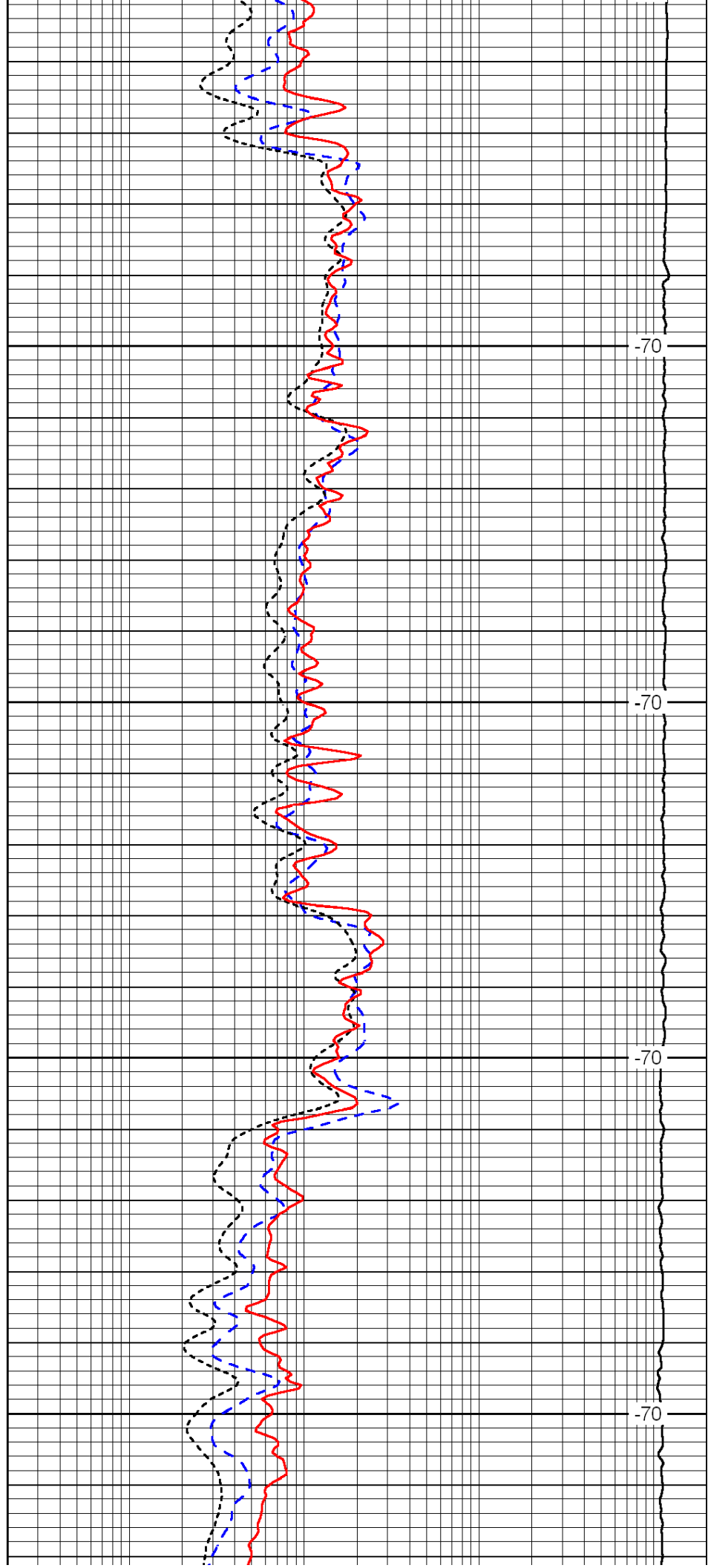


550

600

650

700

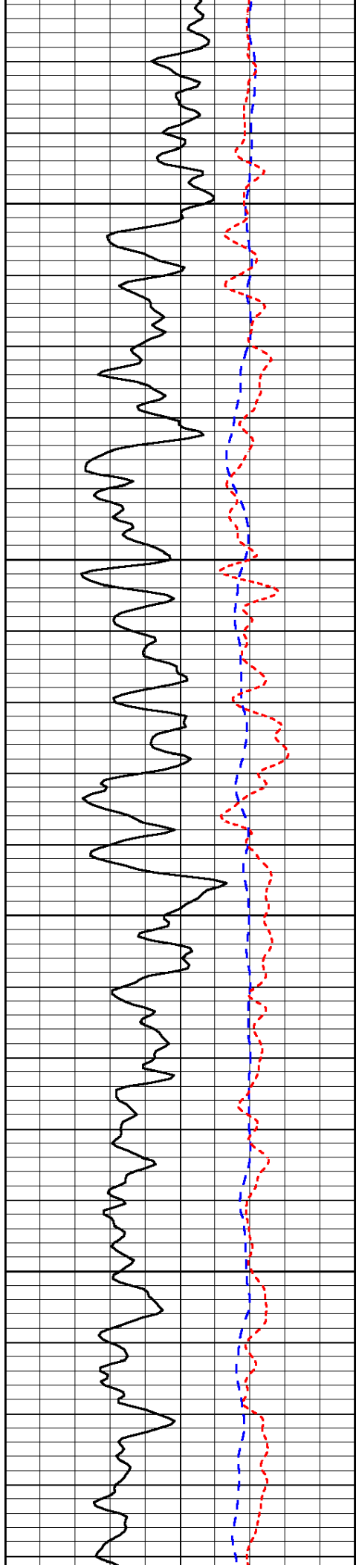


-70

-70

-70

-70

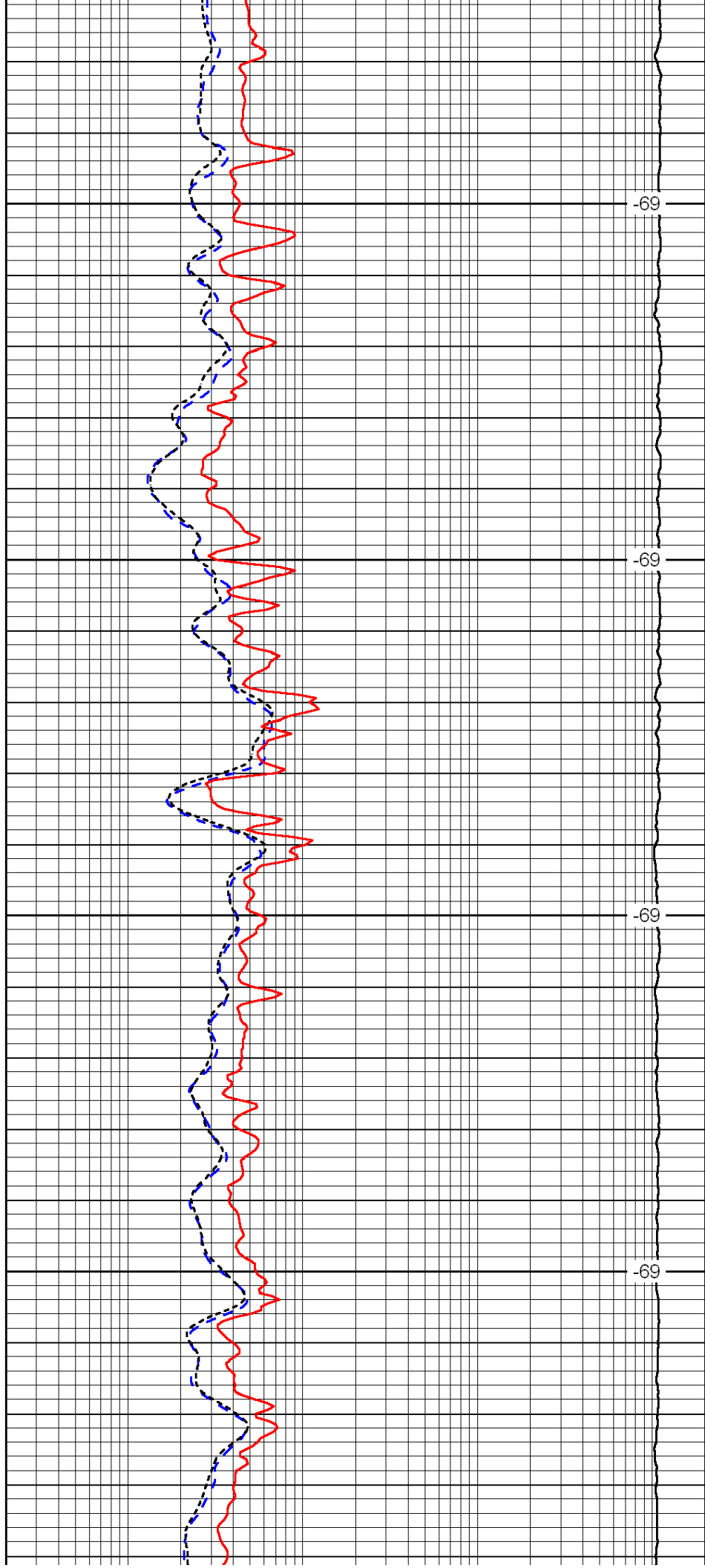


750

800

850

900

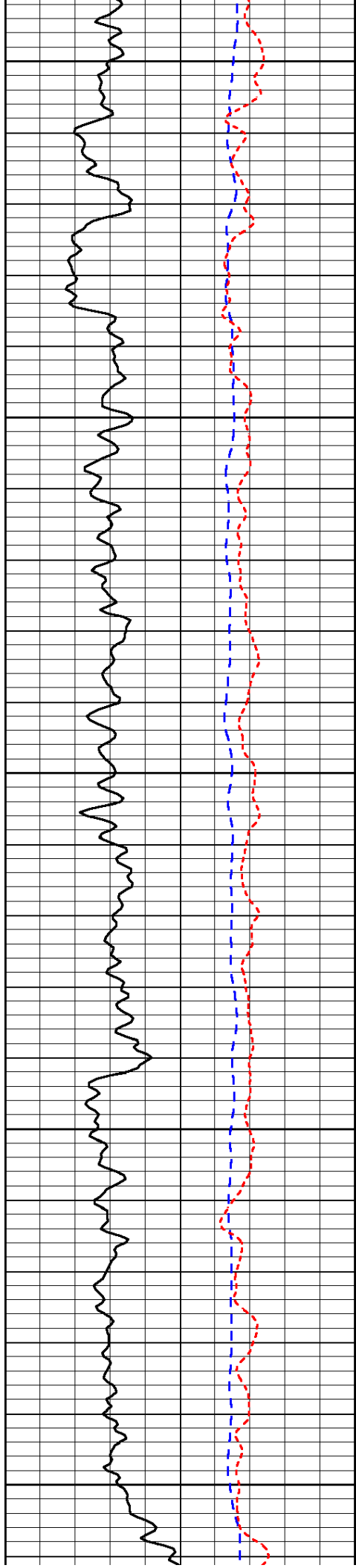


-69

-69

-69

-69



950

1000

1050

1100

1150

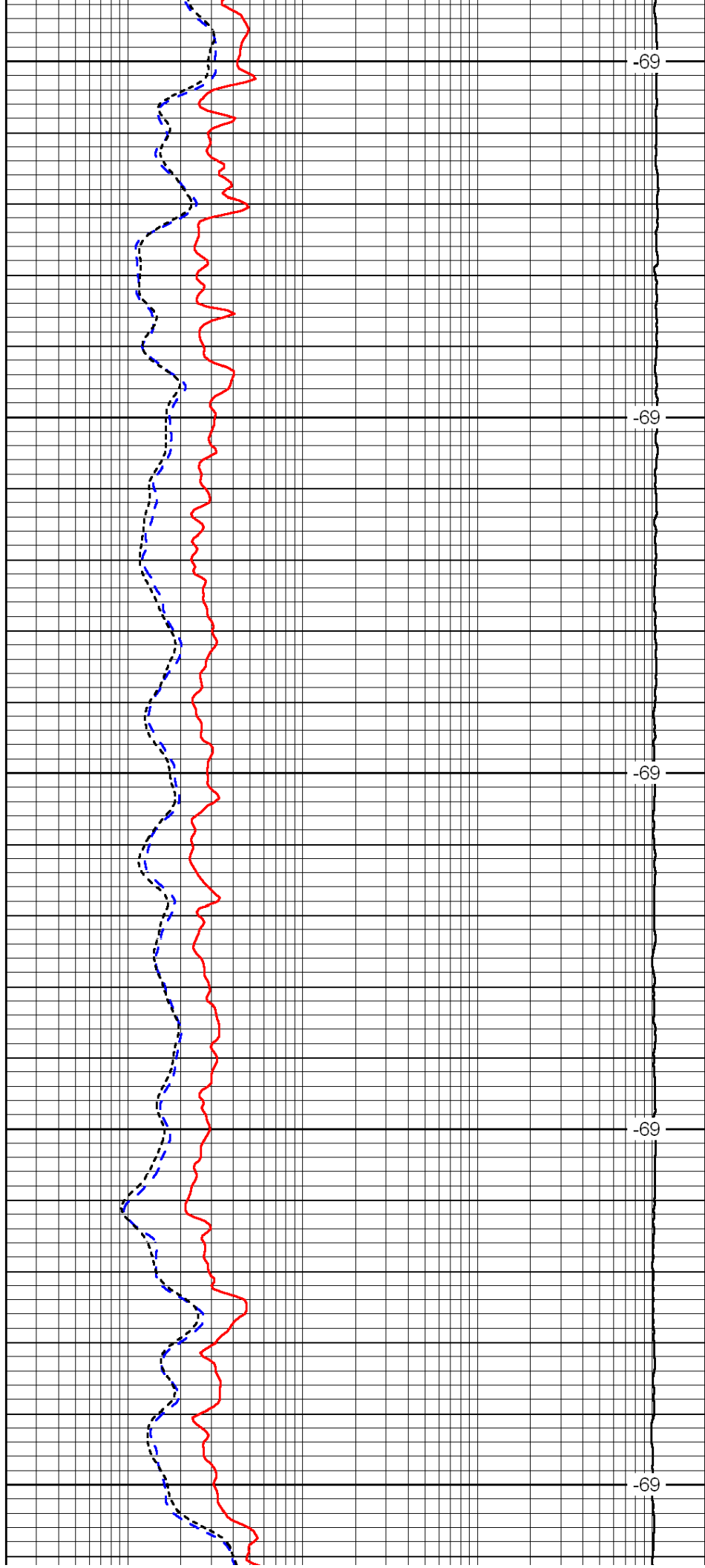
-69

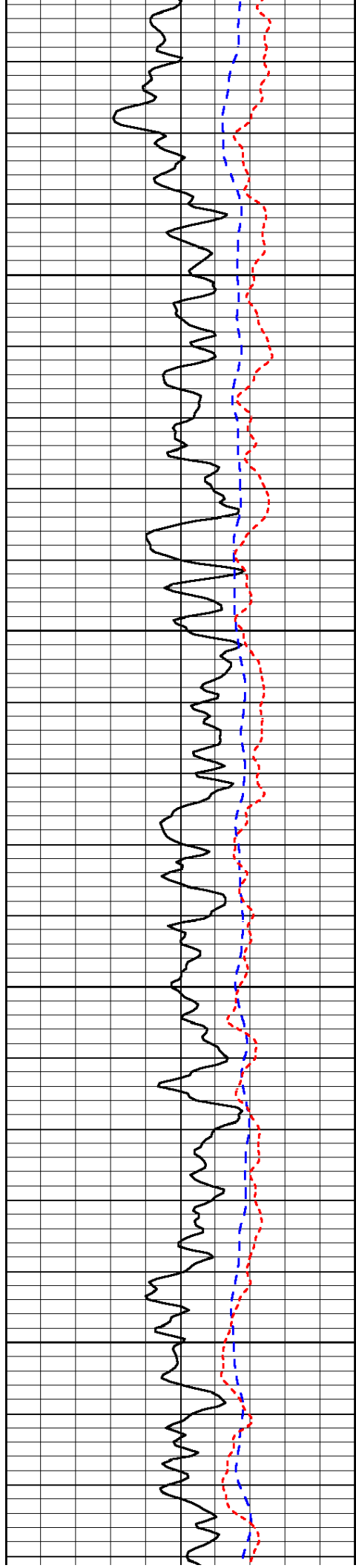
-69

-69

-69

-69



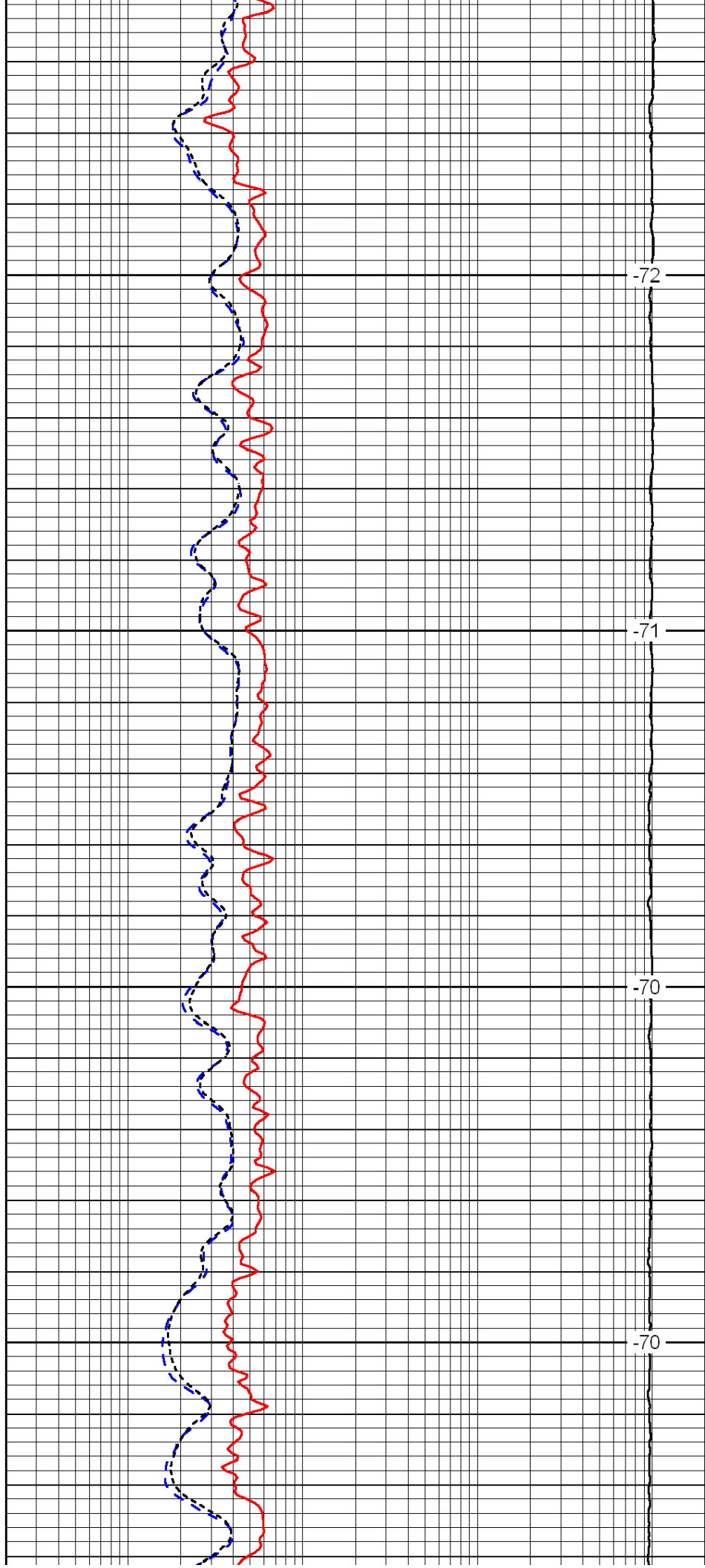


1200

1250

1300

1350

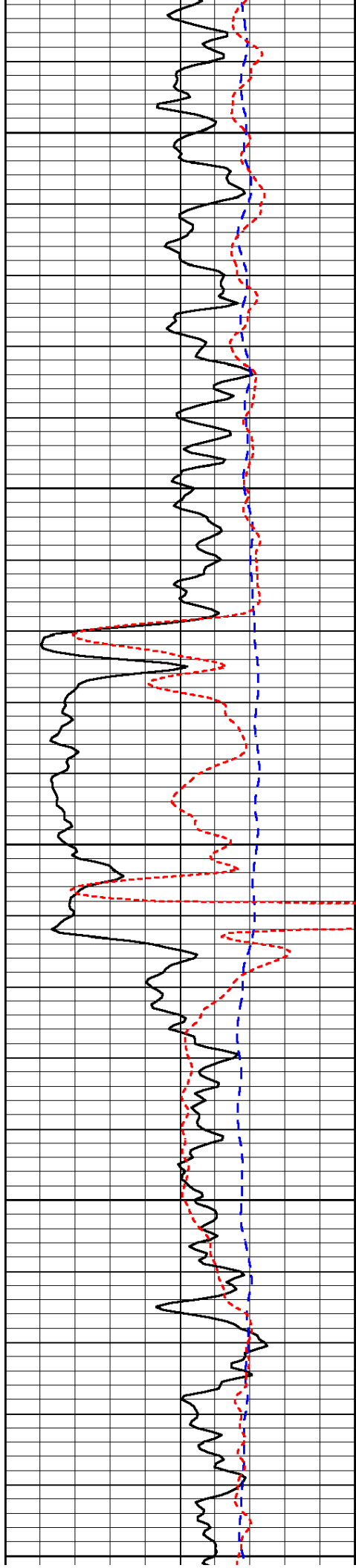


-72

-71

-70

-70



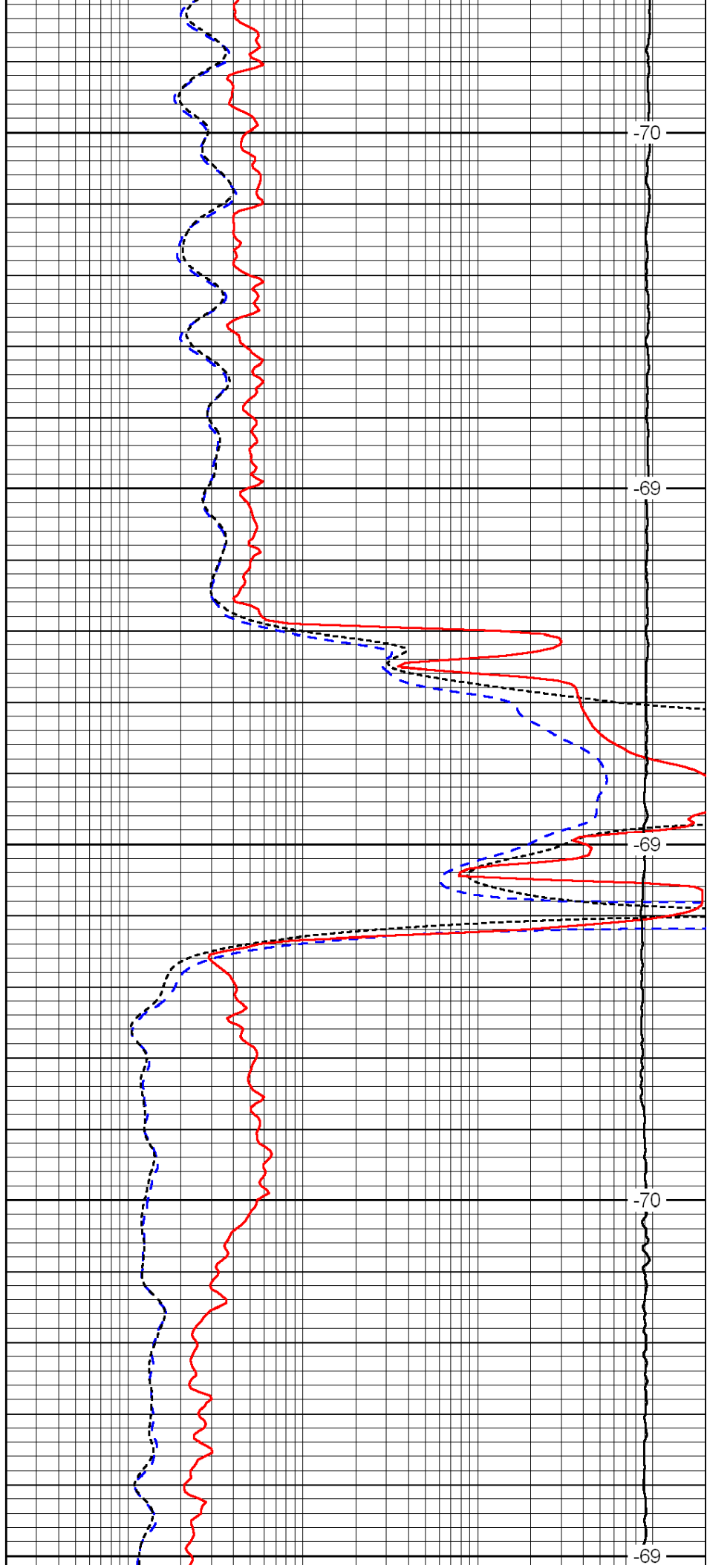
1400

1450

1500

1550

1600



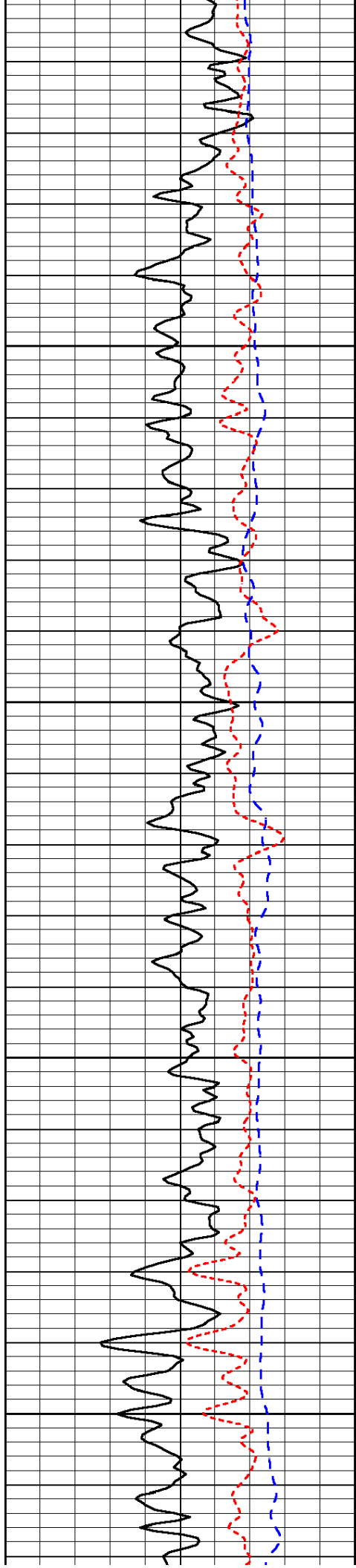
-70

-69

-69

-70

-69

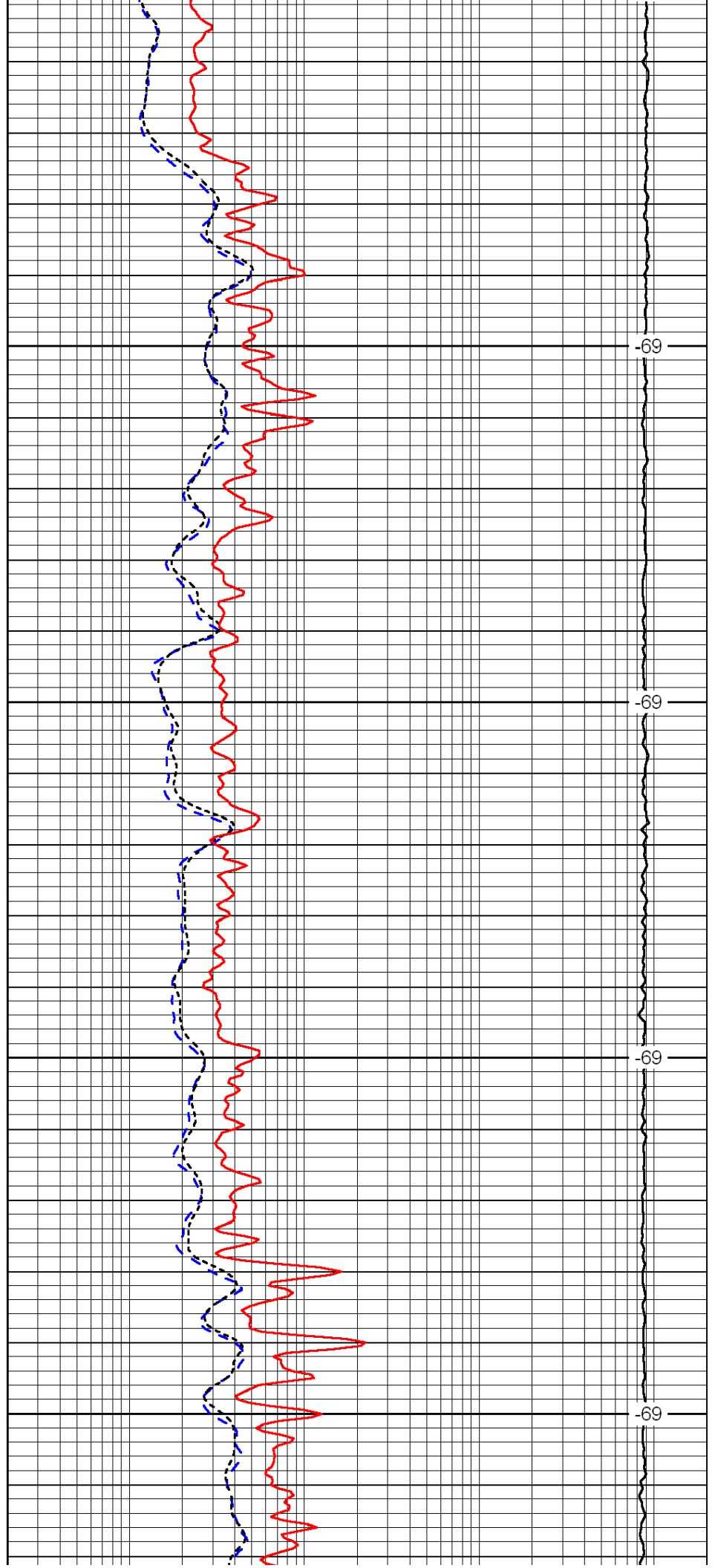


1650

1700

1750

1800

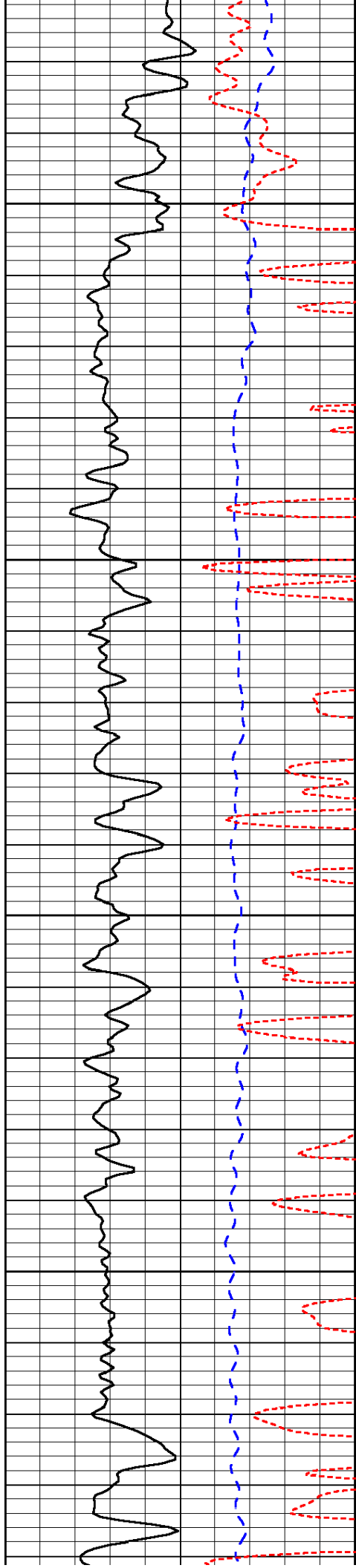


-69

-69

-69

-69

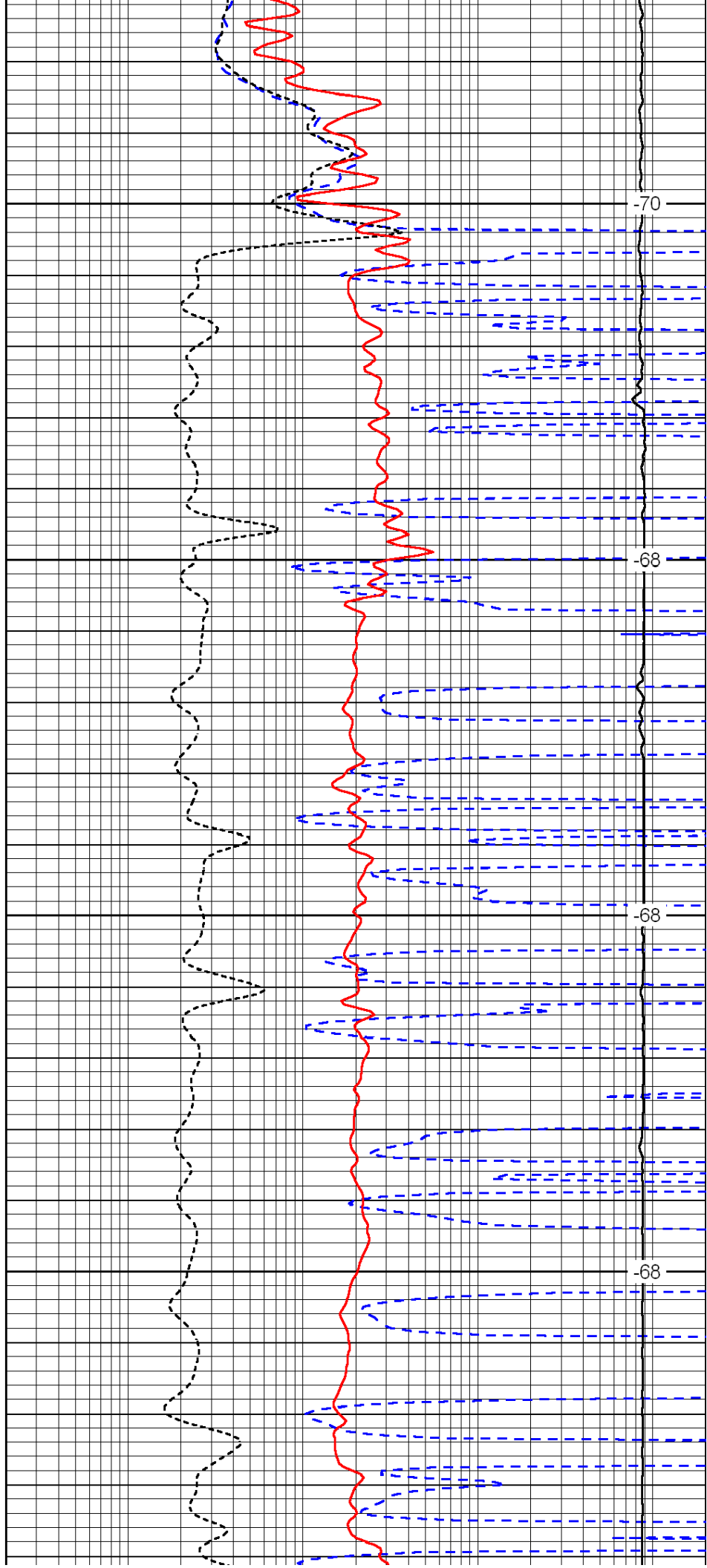


1850

1900

1950

2000

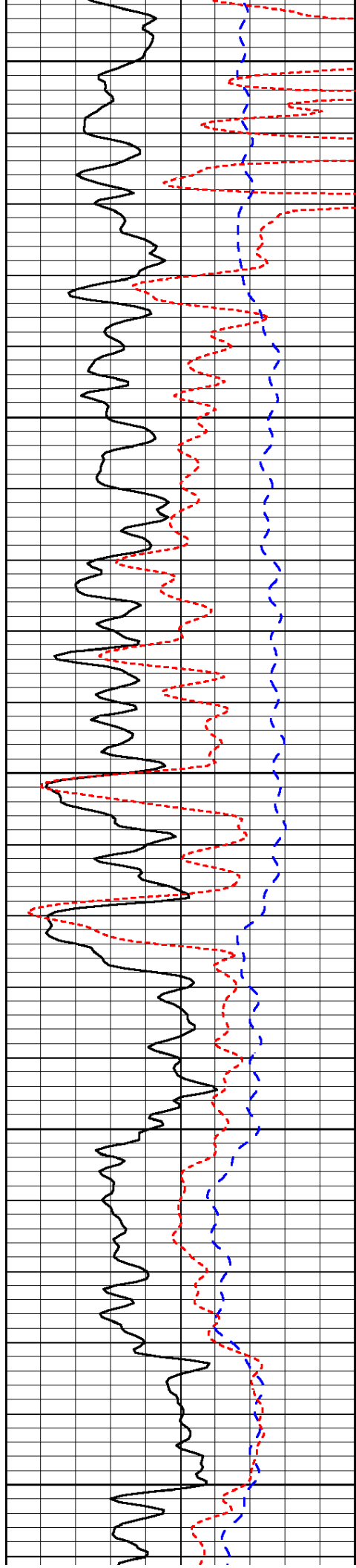


-70

-68

-68

-68



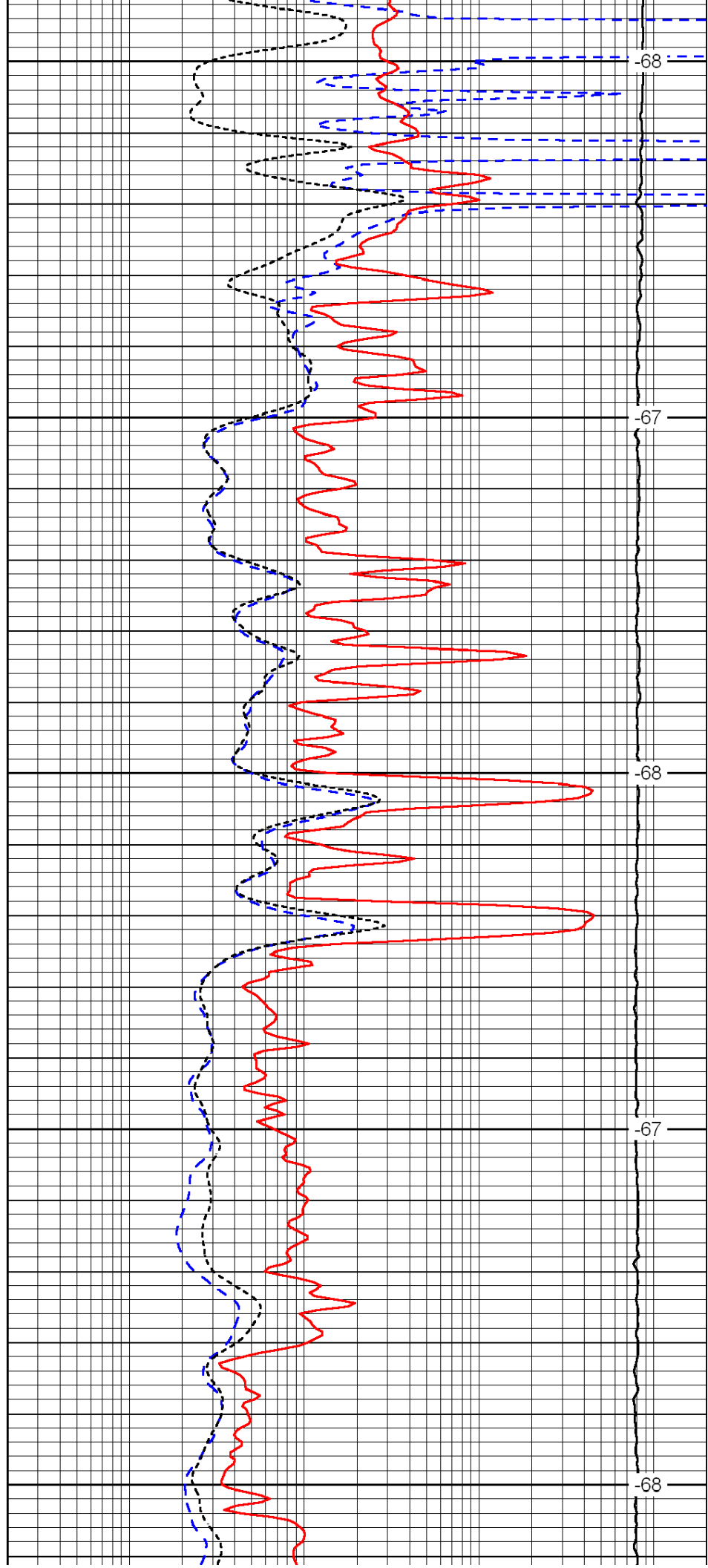
2050

2100

2150

2200

2250



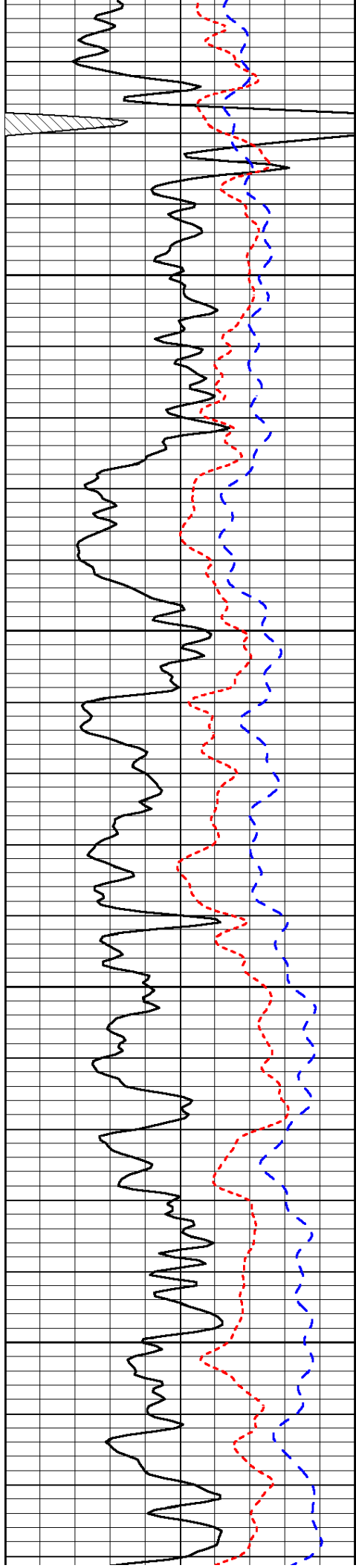
-68

-67

-68

-67

-68

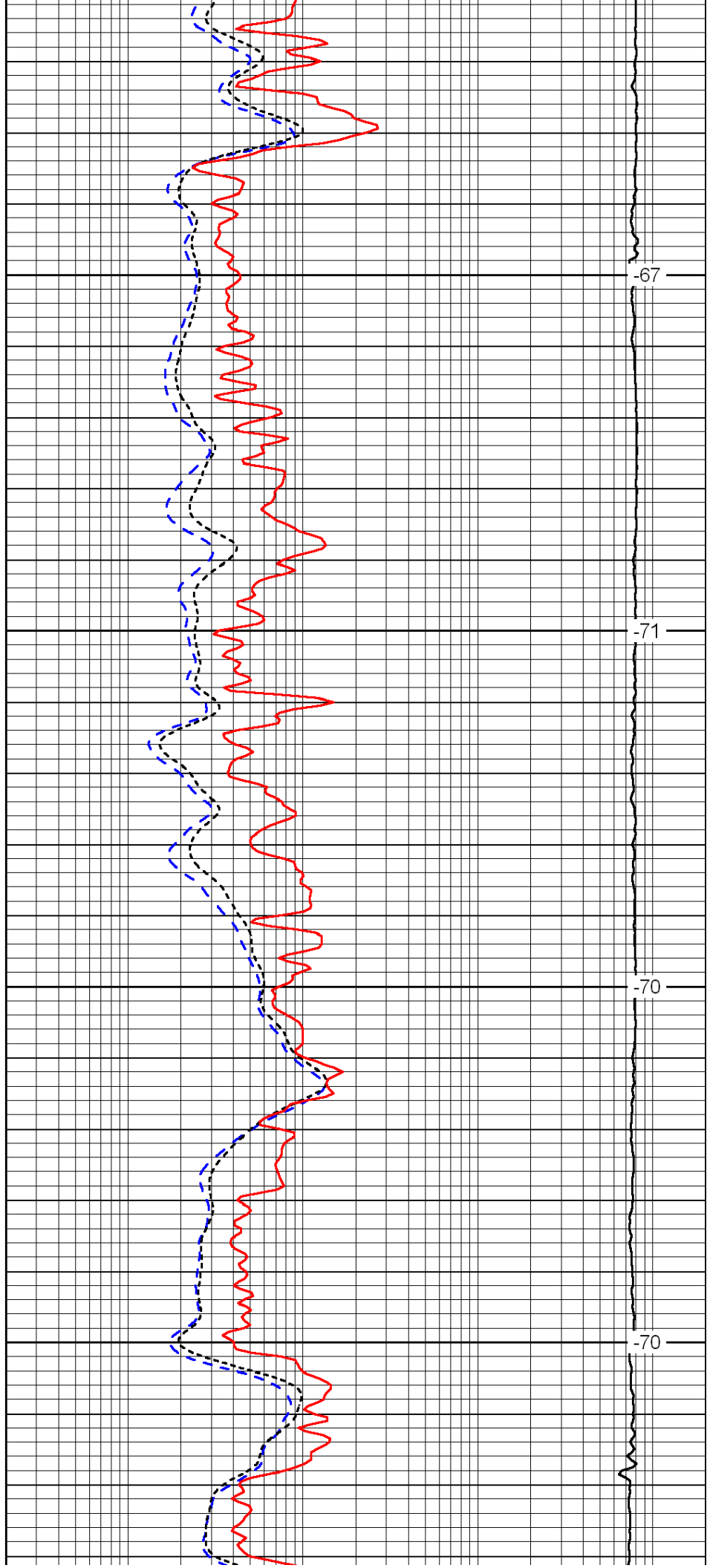


2300

2350

2400

2450

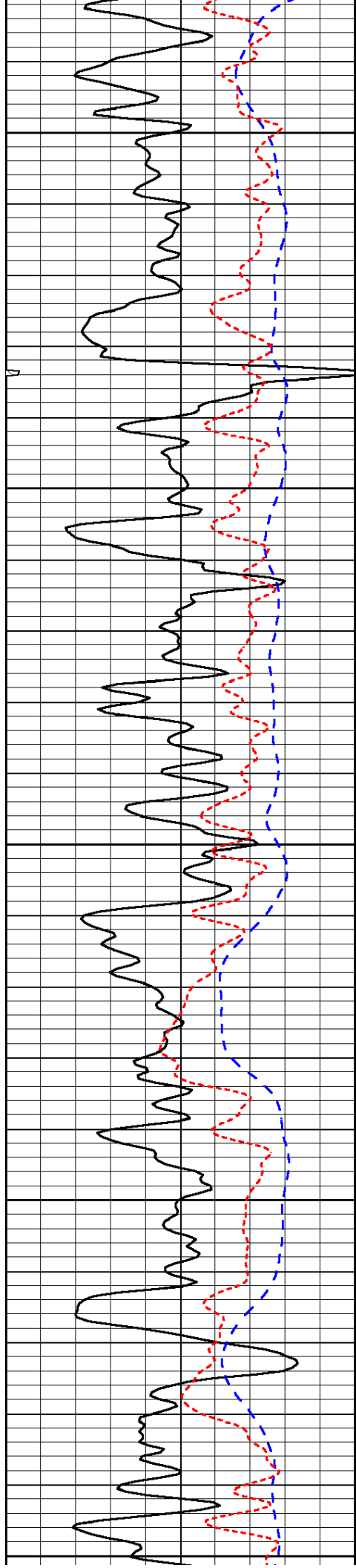


-67

-71

-70

-70



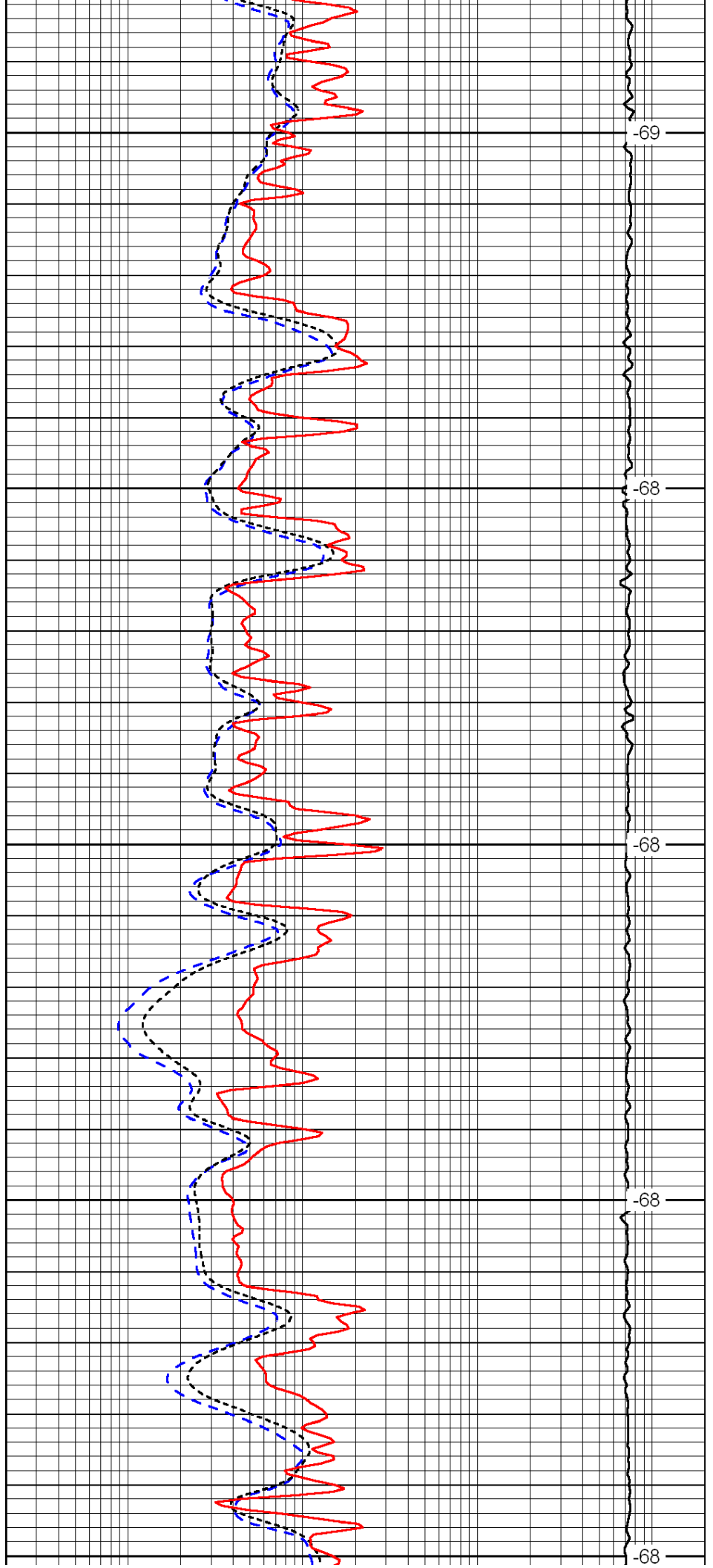
2500

2550

2600

2650

2700



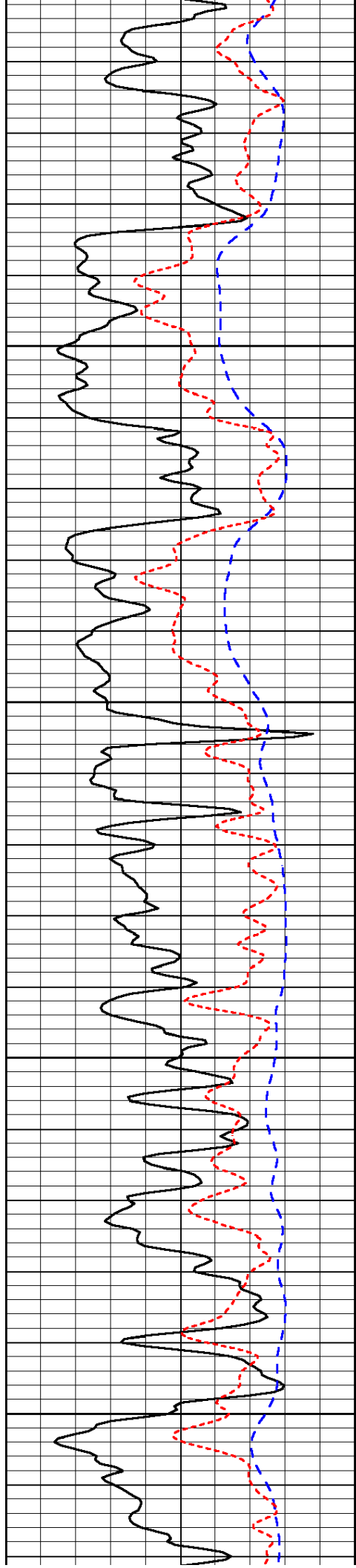
-69

-68

-68

-68

-68

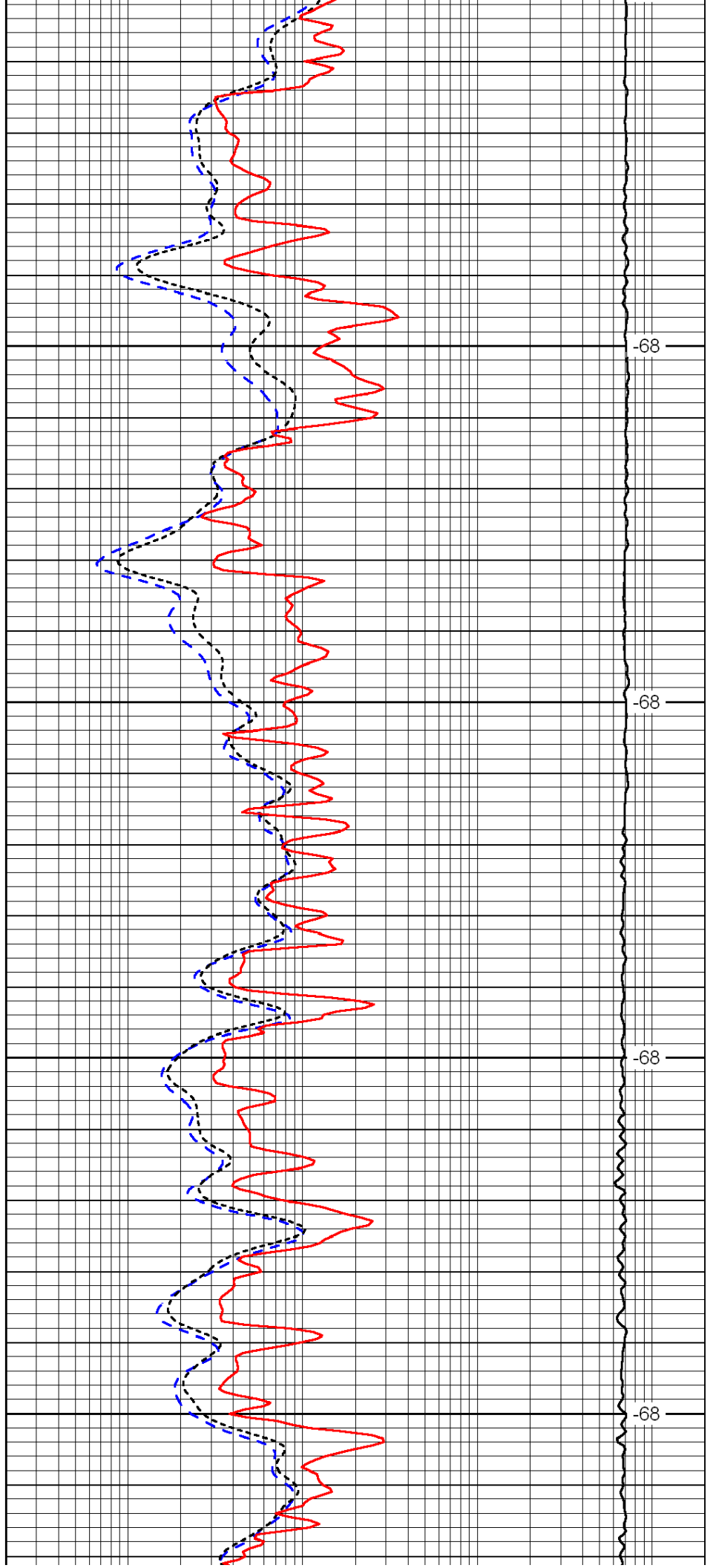


2750

2800

2850

2900

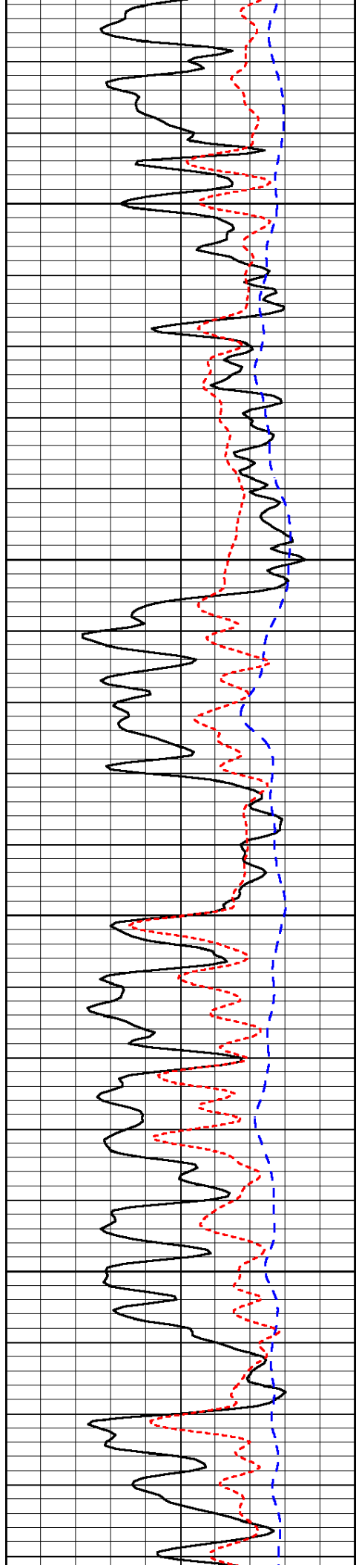


-68

-68

-68

-68

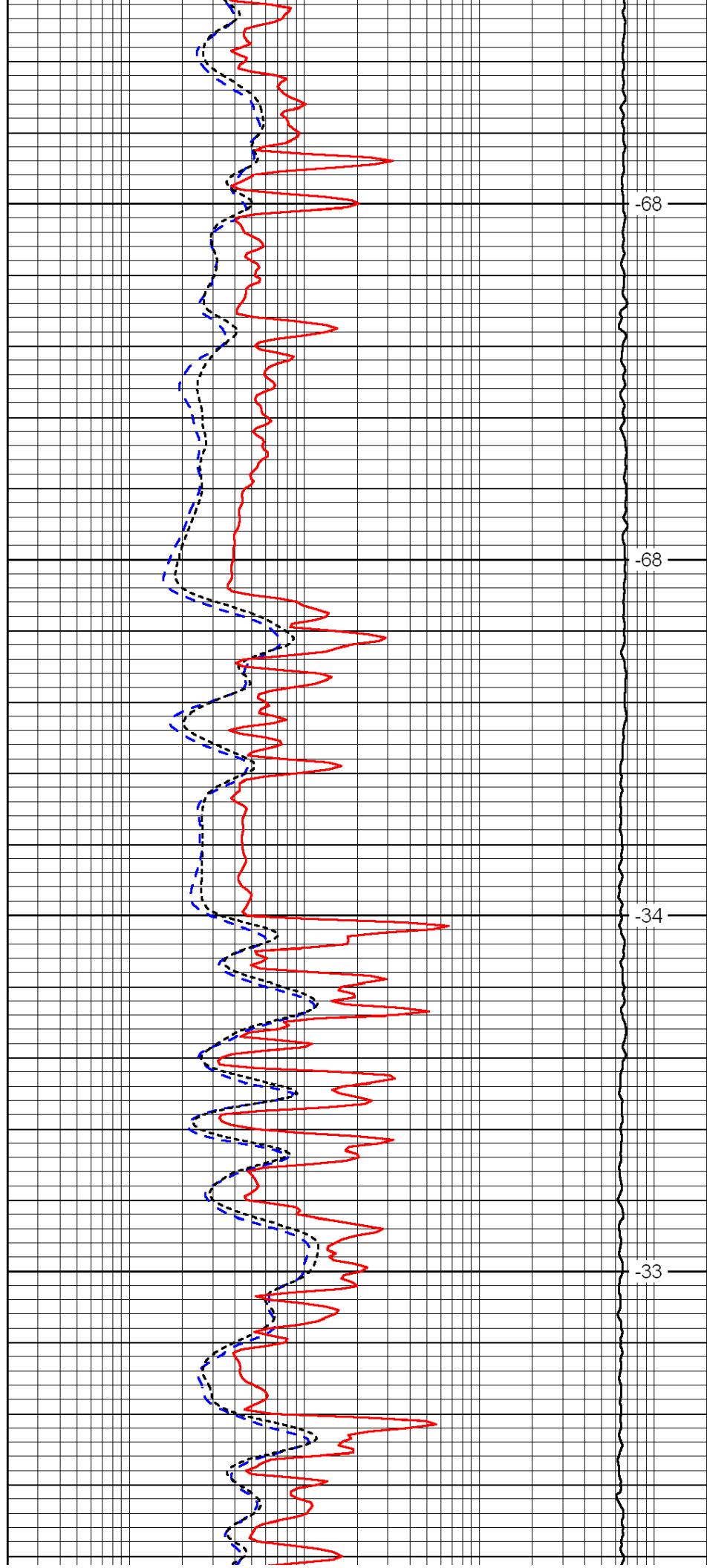


2950

3000

3050

3100

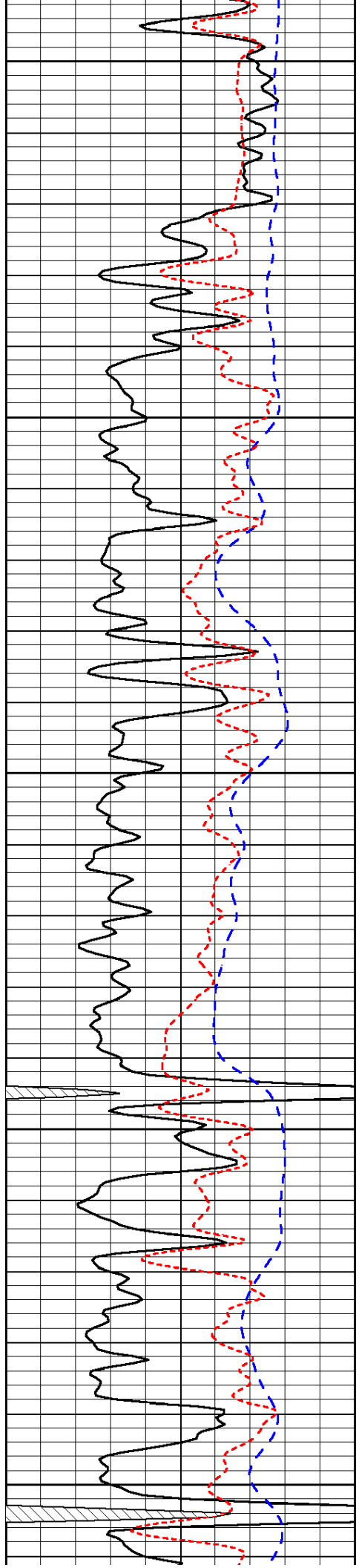


-68

-68

-34

-33



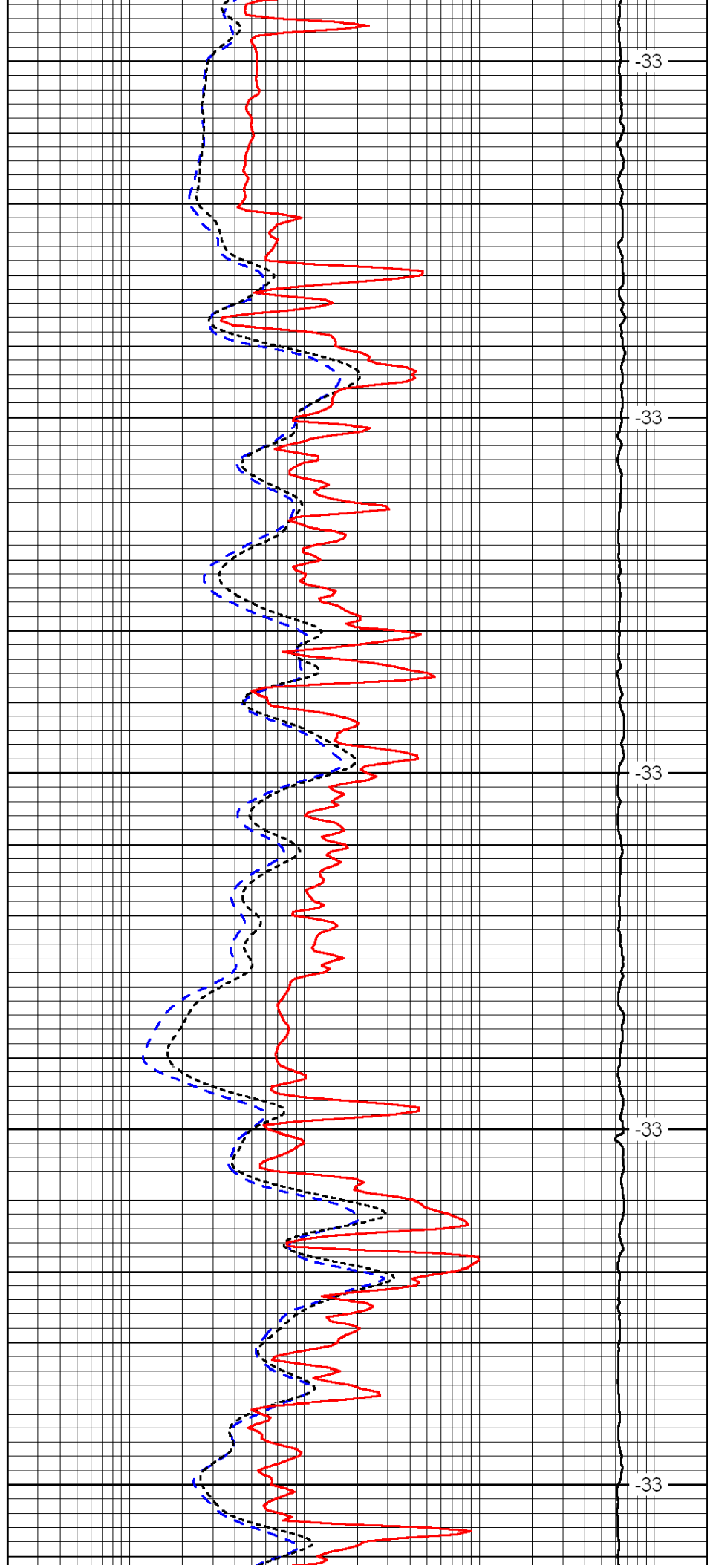
3150

3200

3250

3300

3350



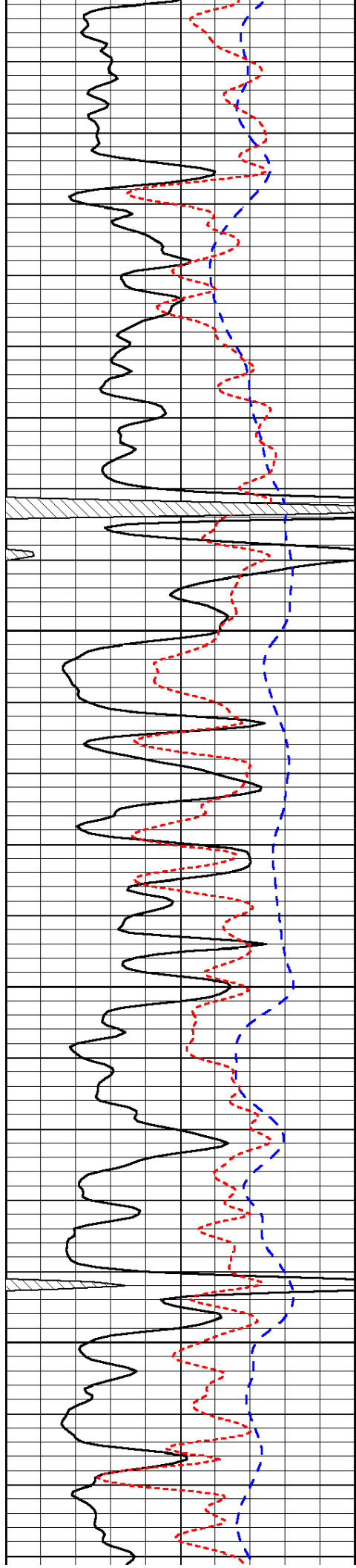
-33

-33

-33

-33

-33

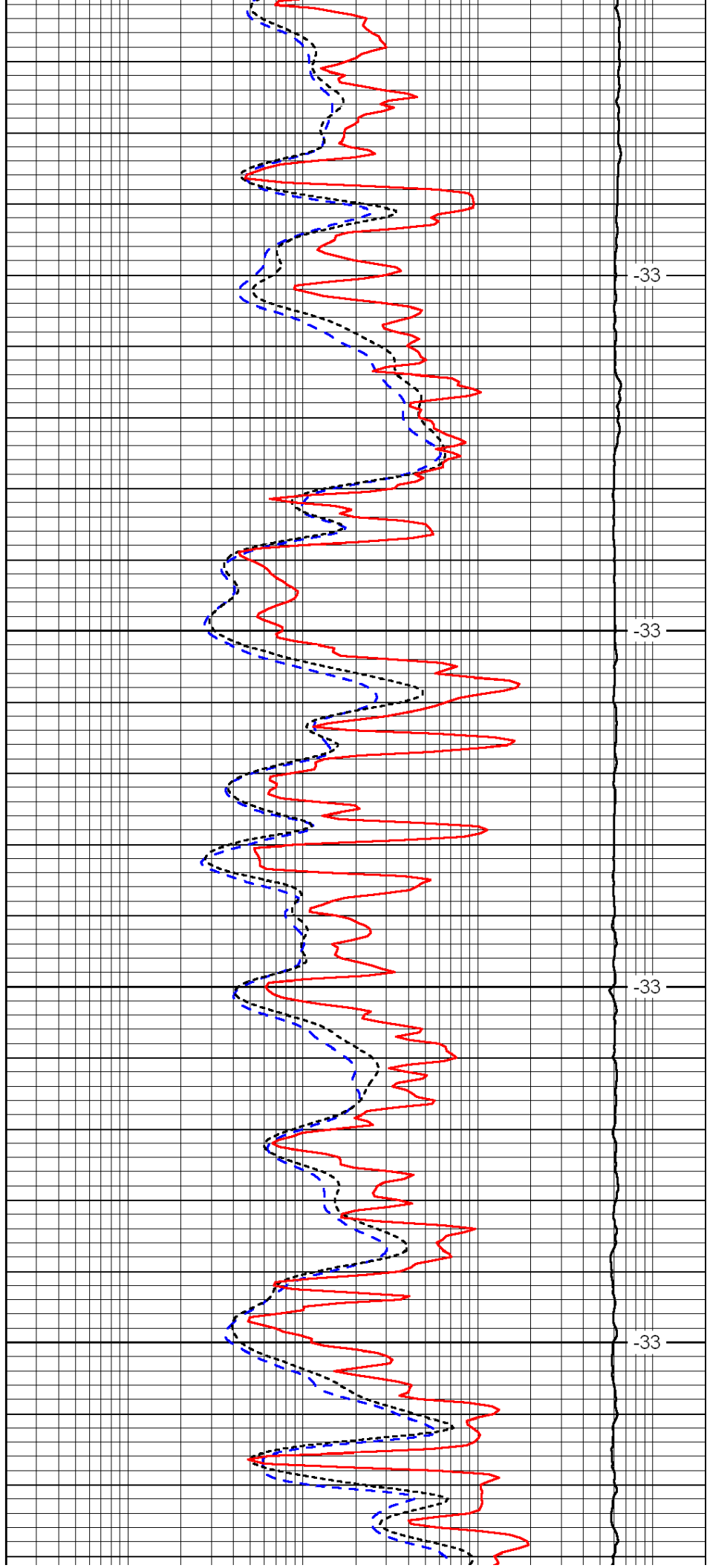


3400

3450

3500

3550

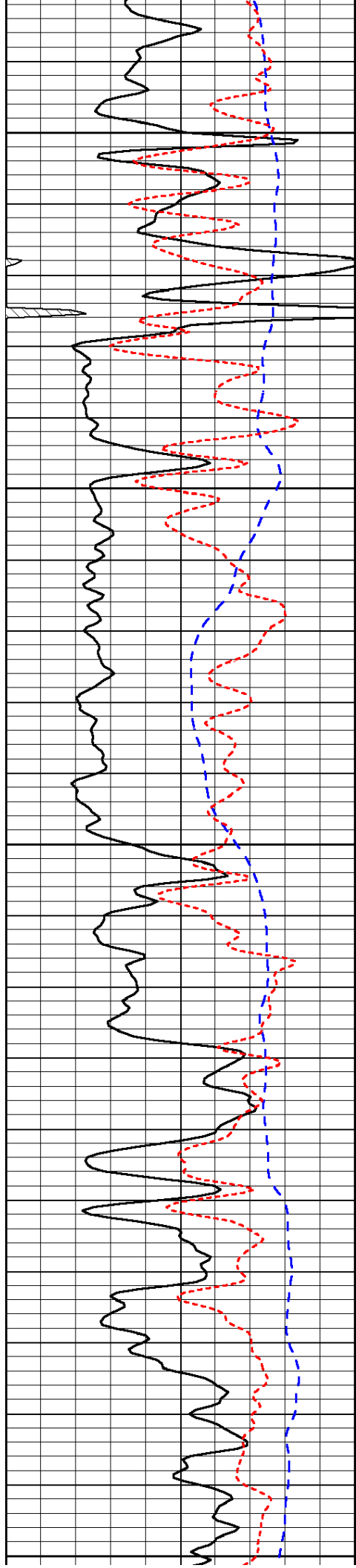


-33

-33

-33

-33



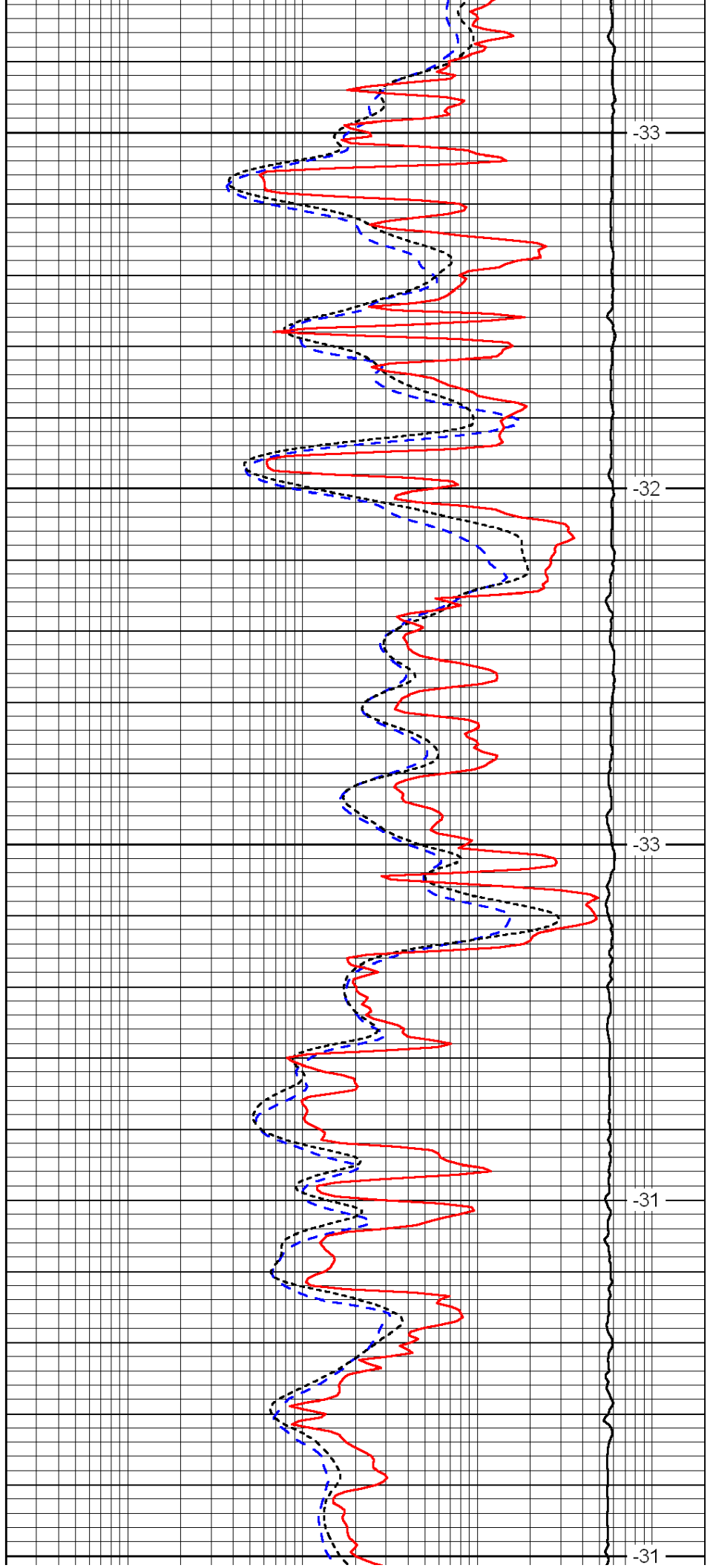
3600

3650

3700

3750

3800



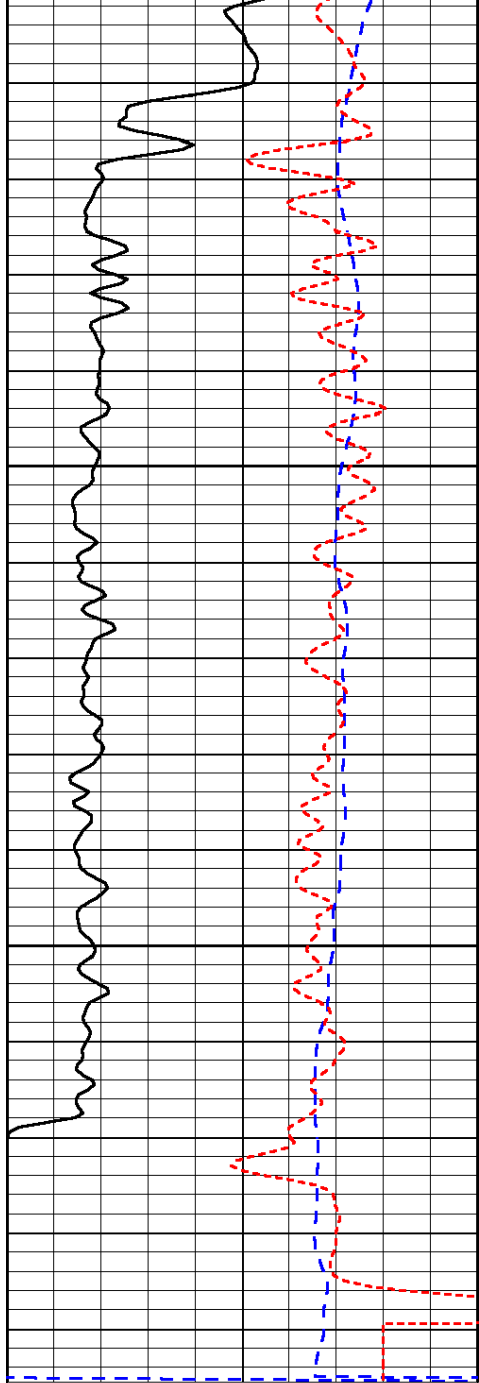
-33

-32

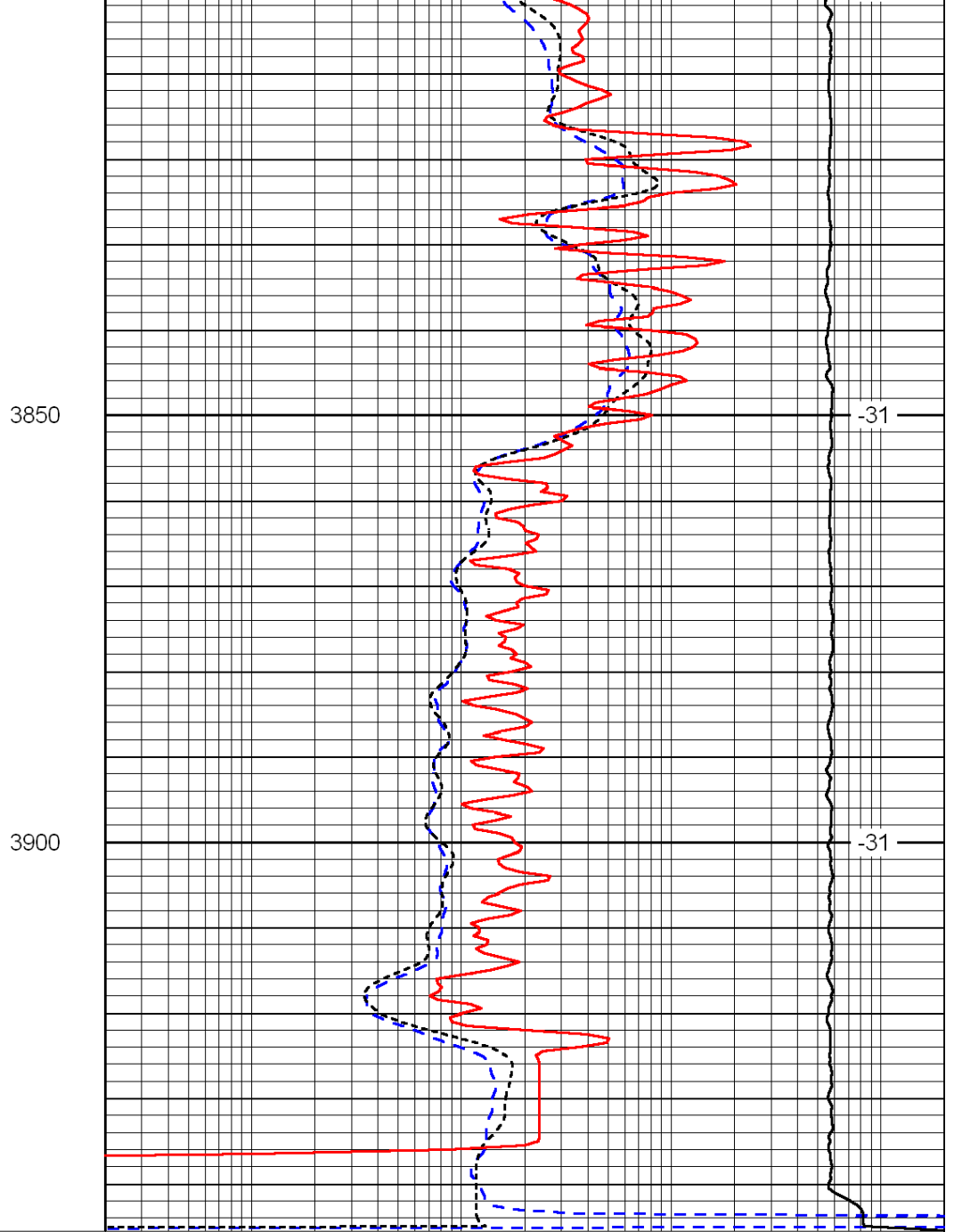
-33

-31

-31



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



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

LSPD