



Pioneer Energy Services

Dual Induction Log

API No.

15-153-21021-00-00

Company Ruda Exploration, Inc.

Well KR #1

Field Wildcat

County Rawlins

State

Kansas

Location

NE SE SW SE
410' FSL / 1530' FEL

Sec: 14

Twp: 4S

Rge: 33W

Elevation

Permanent Datum Ground Level Elevation 2952
Log Measured From Kelly Bushing 5 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

K.B. 2957
D.F.
G.L. 2952

Date

6/17/2014

Run Number

One

Depth Driller

4635

Depth Logger

4636

Bottom Logged Interval

4635

Top Log Interval

150

Casing Driller

8.625 @ 154

Casing Logger

154

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

9400

Density / Viscosity

9.5 47

pH / Fluid Loss

10.0 12.6

Source of Sample

Flowline

Rm @ Meas. Temp

0.26 @ 70

Rmf @ Meas. Temp

0.20 @ 70

Rmc @ Meas. Temp

0.35 @ 70

Source of Rmf / Rmc

Charts

Rm @ BHT

0.15 @ 122

Operating Rig Time

5 Hours

Max Rec. Temp. F

122

Equipment Number

17

Location

Hays

Recorded By

R. Barnhart

Witnessed By

Tony Richardson

<<< 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

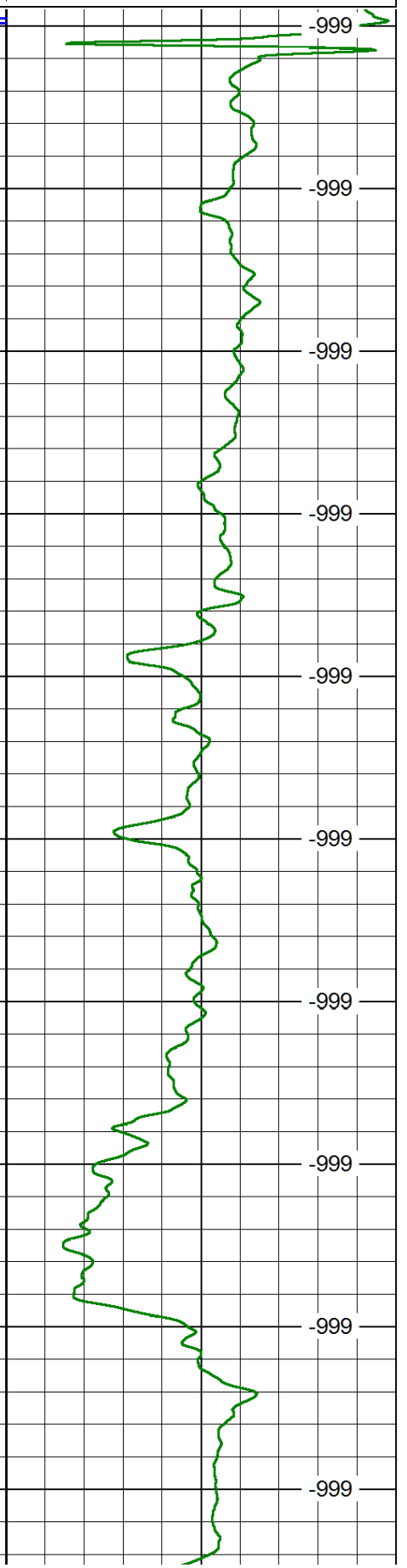
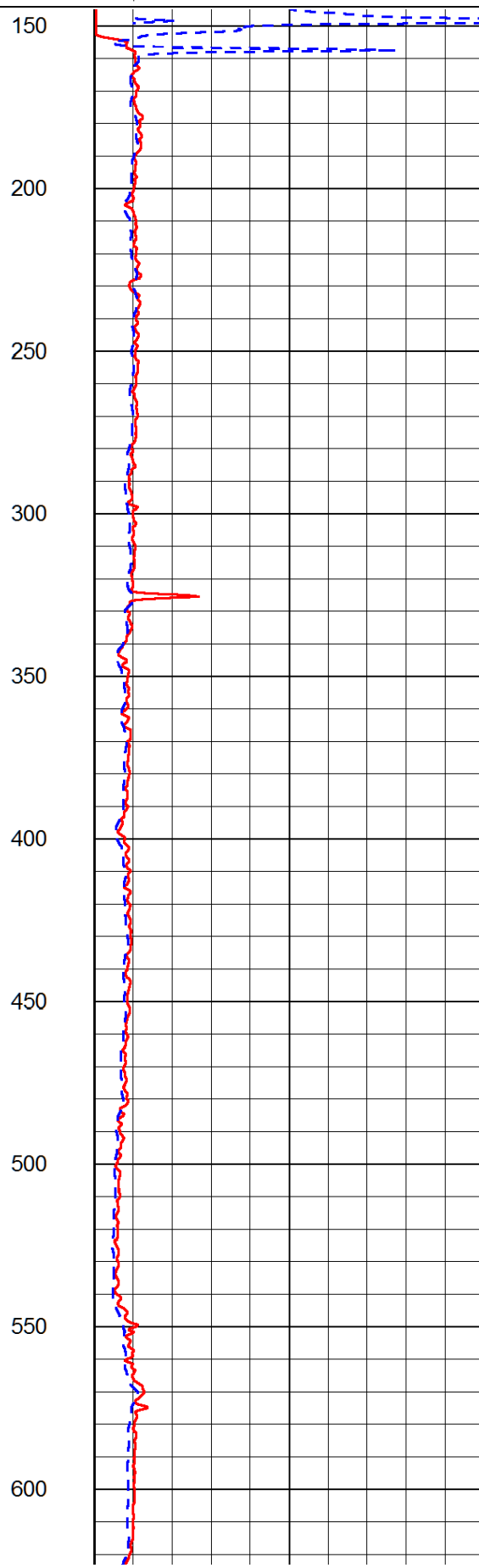
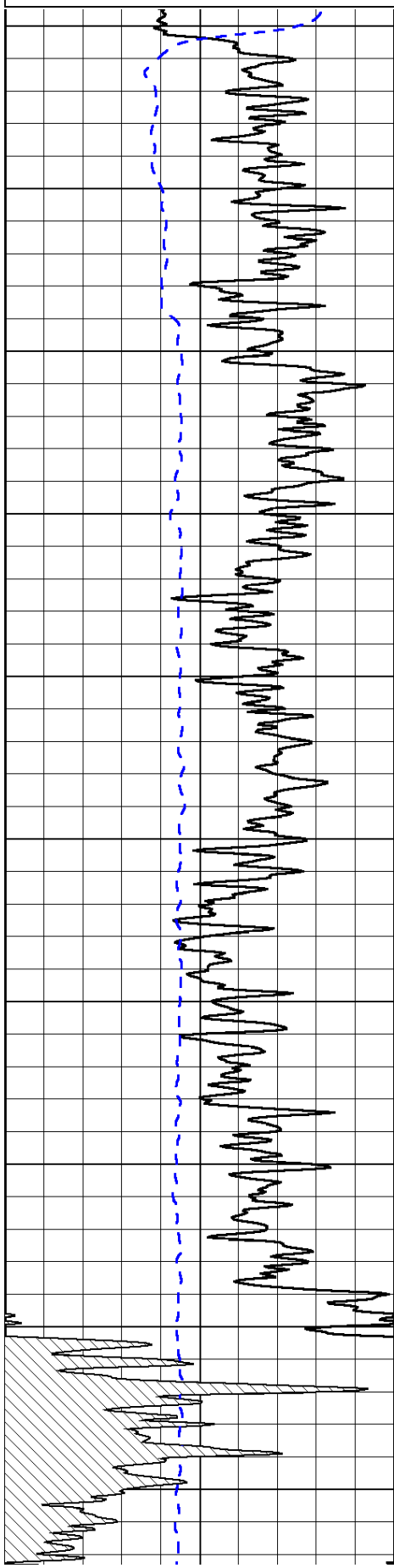
Colby, KS:
18N to H Rd., 3E, 2N, E into

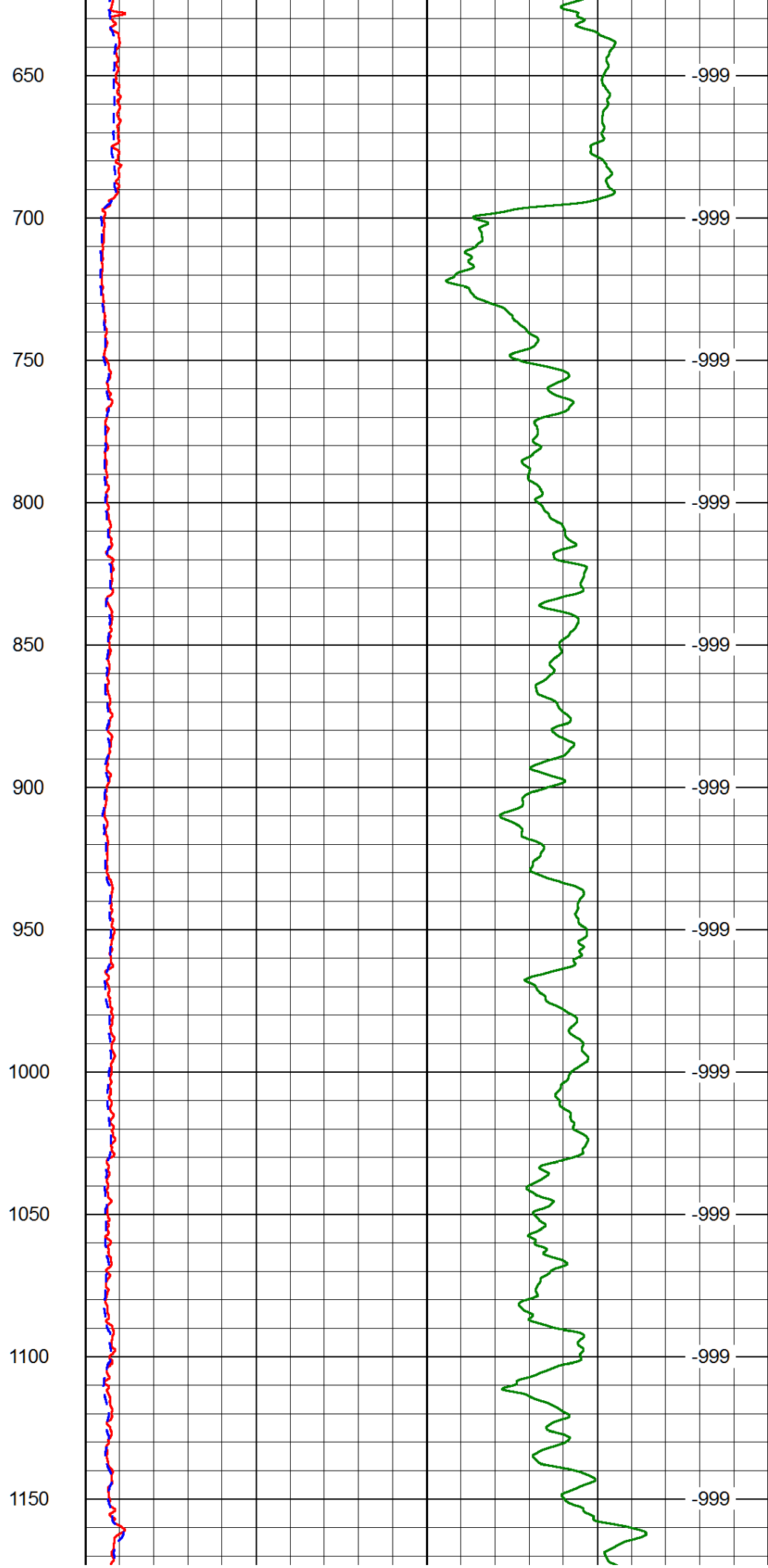
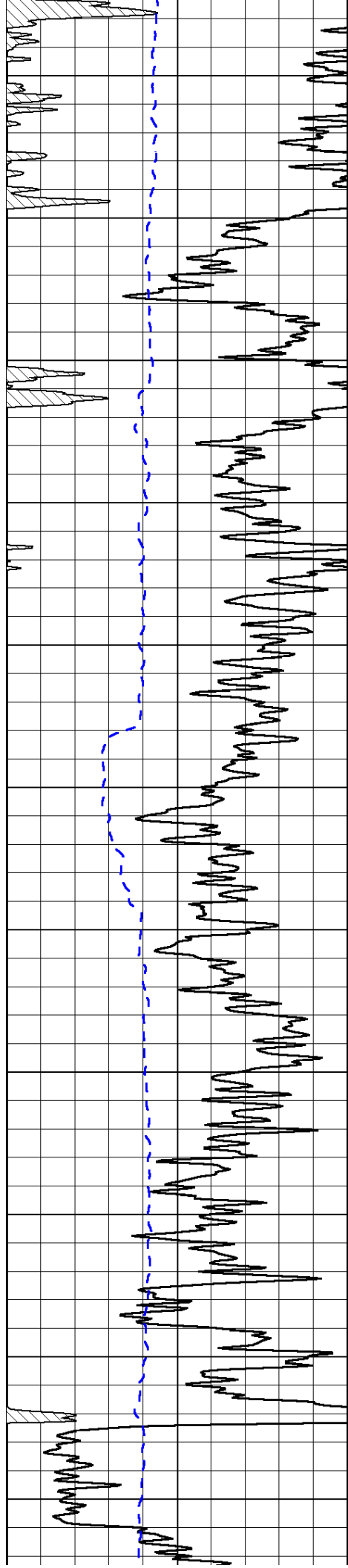
Database File: ruda_hd.db
Dataset Pathname: dil/rudm2
Presentation Format: dil2in
Dataset Creation: Tue Jun 17 13:00:53 2014
Charted by: Depth in Feet scaled 1:600

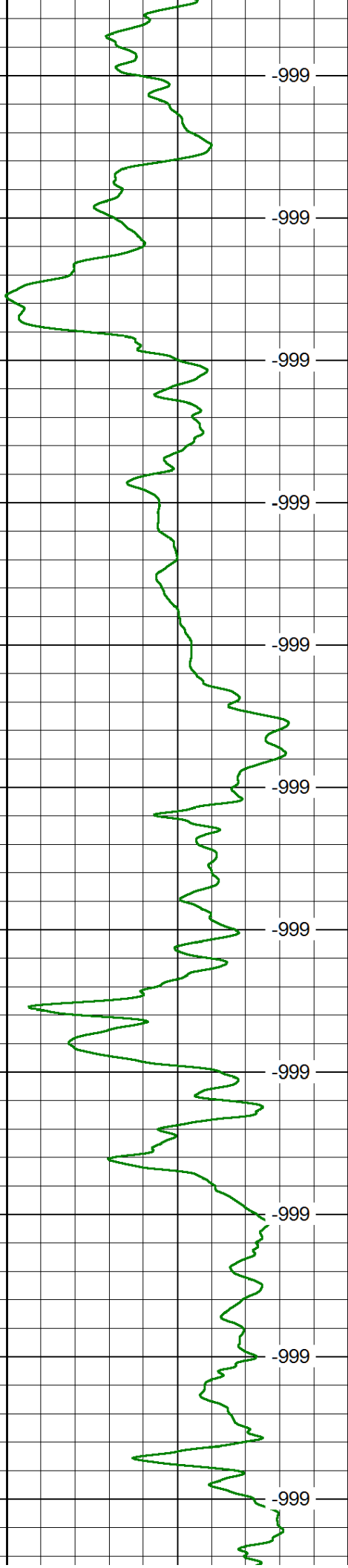
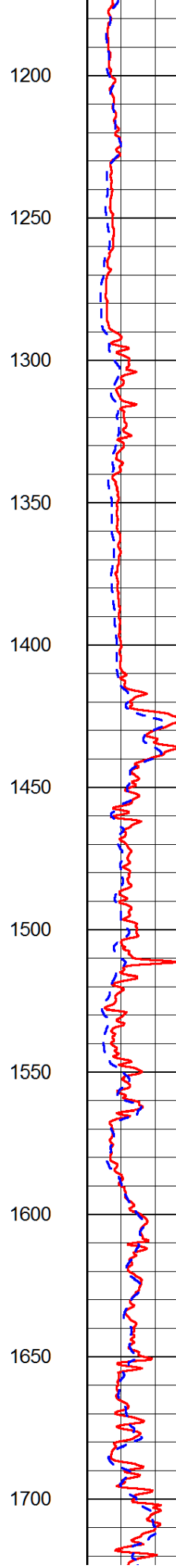
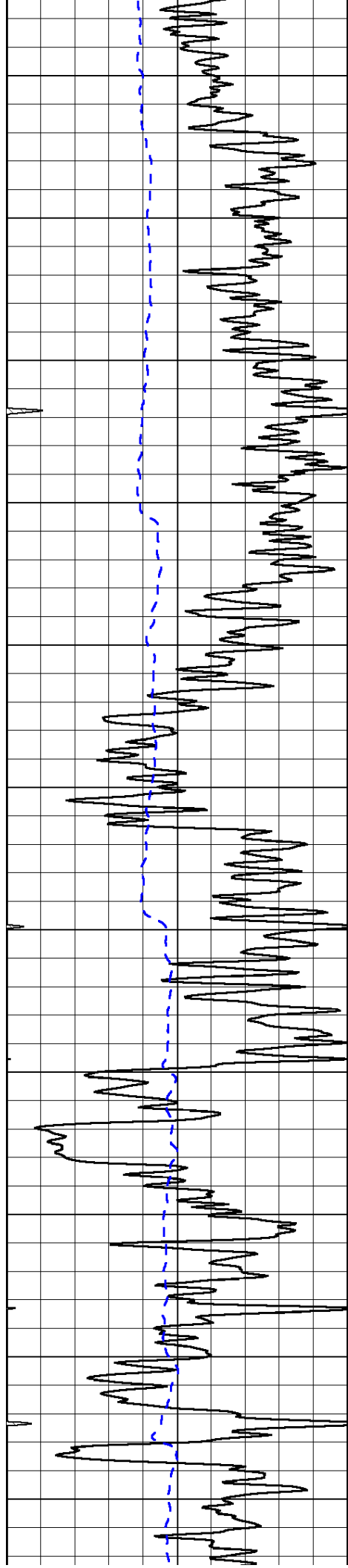
0	Gamma Ray	150
-200	SP (mV)	0

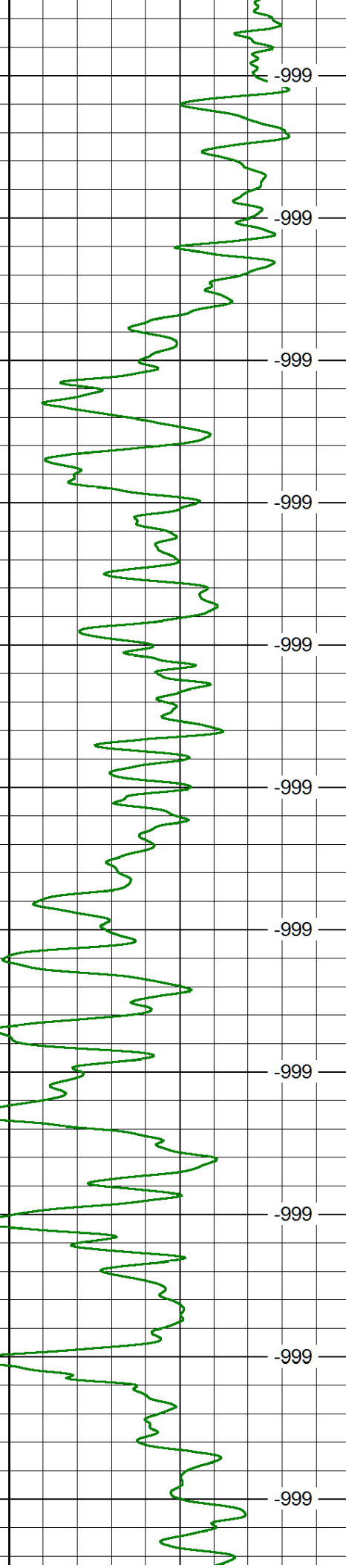
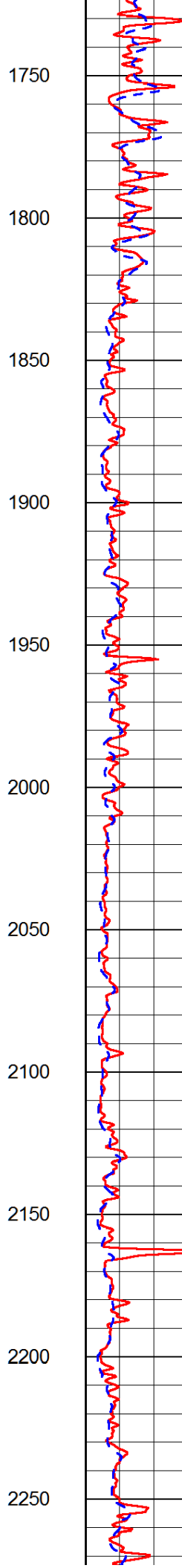
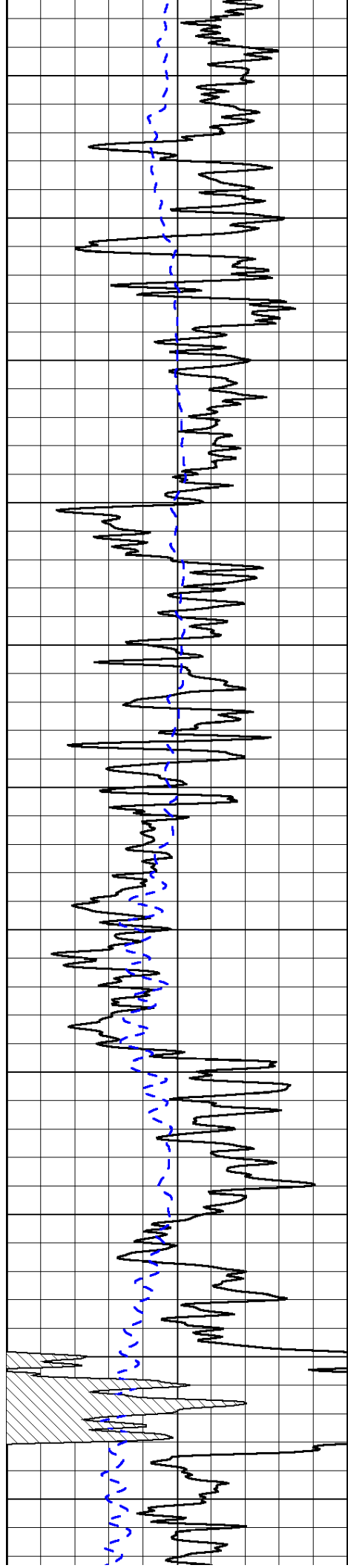
0	Shallow Resistivity	50
0	Deep Resistivity	50
1000	Conductivity	0
15000	Line Tension	0
50	Shallow Resistivity	500
50	Deep Resistivity	500

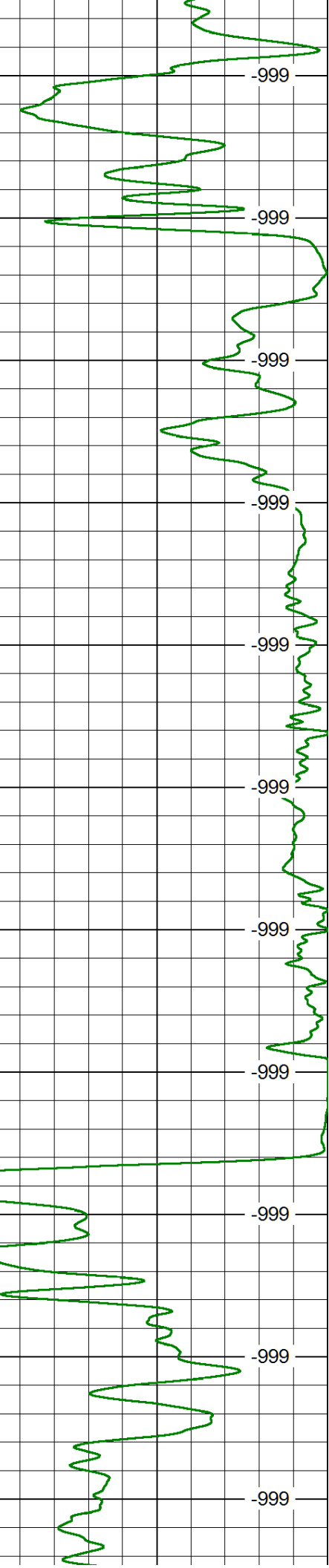
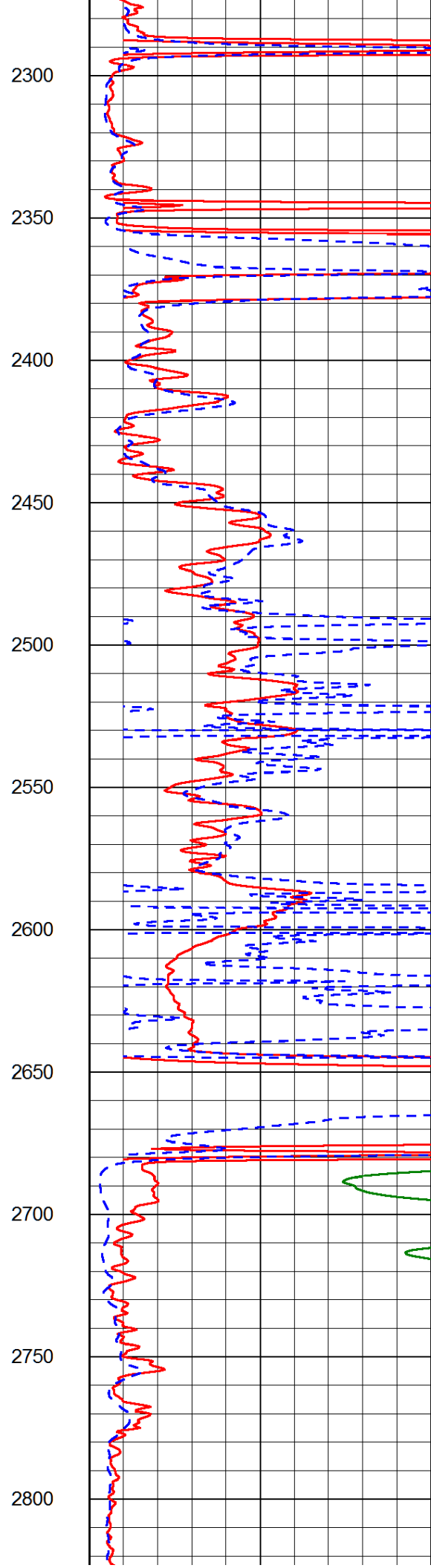
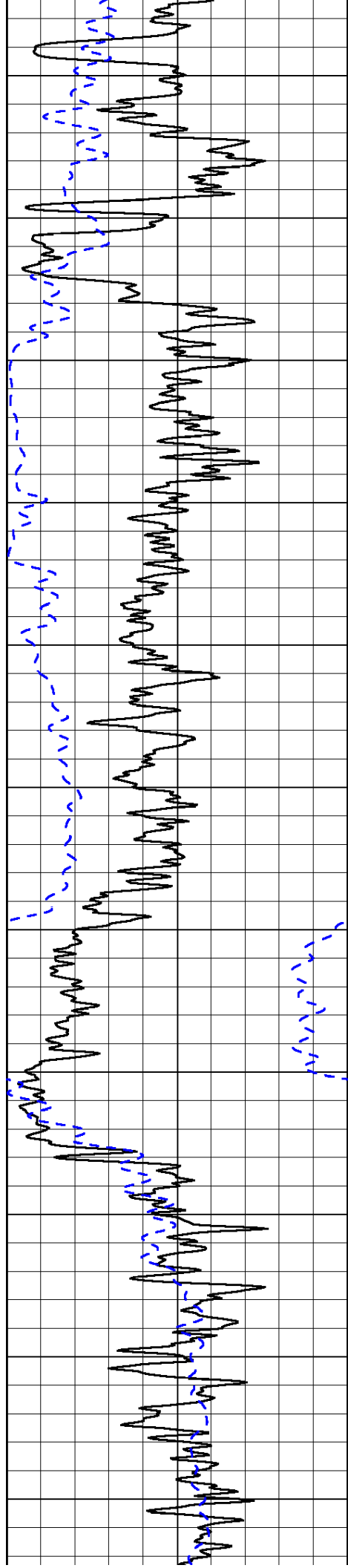
LSPD	0
------	---

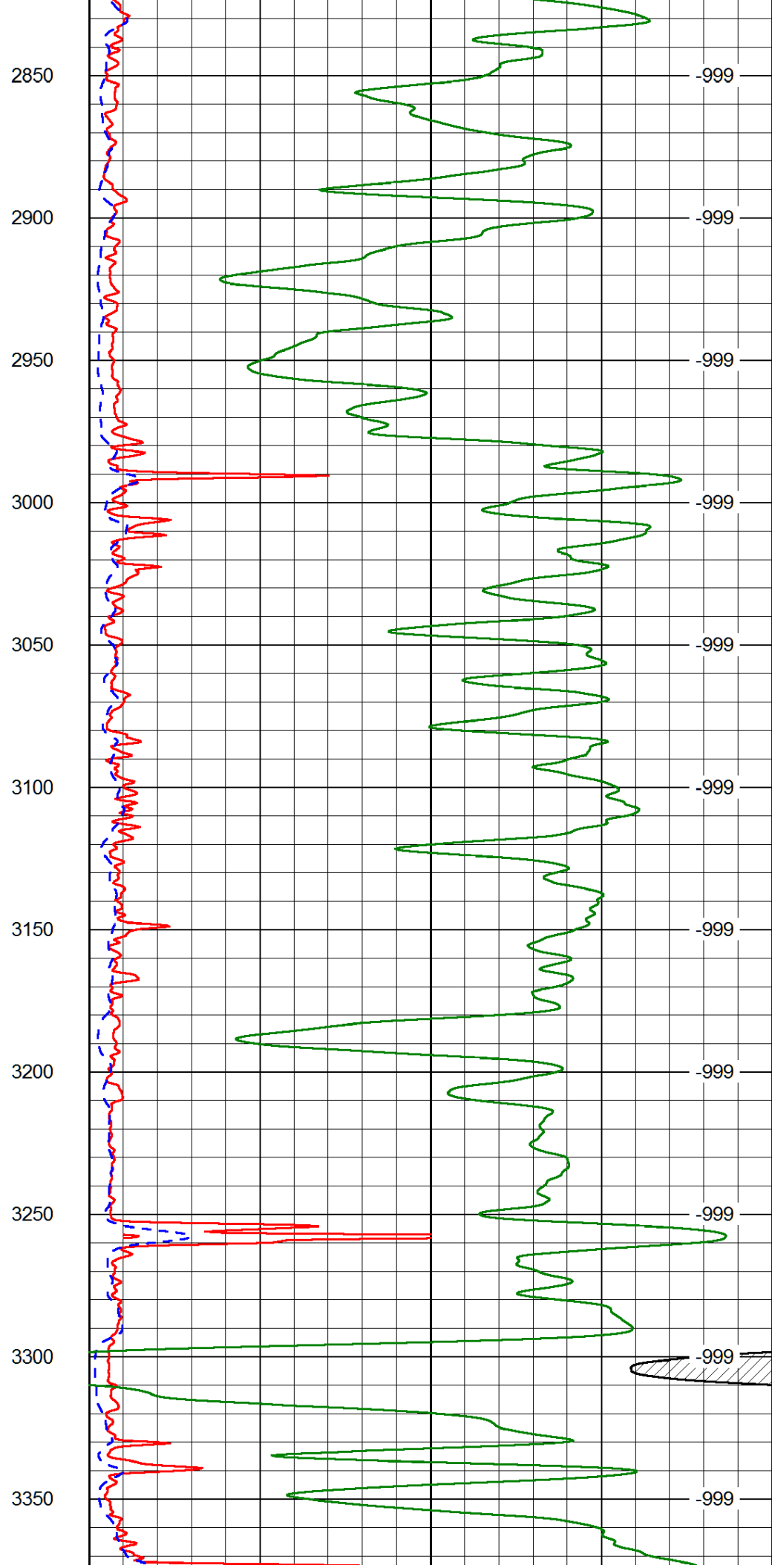
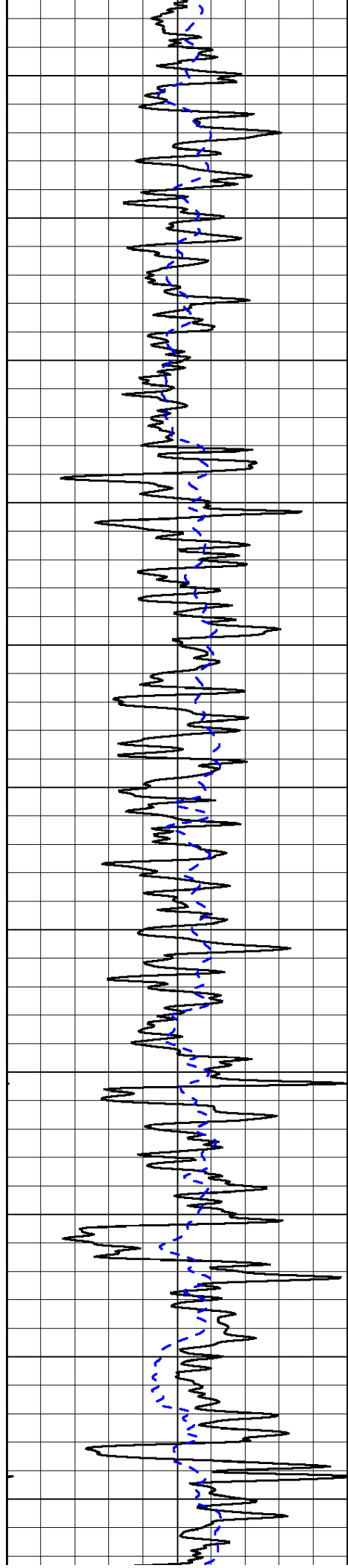


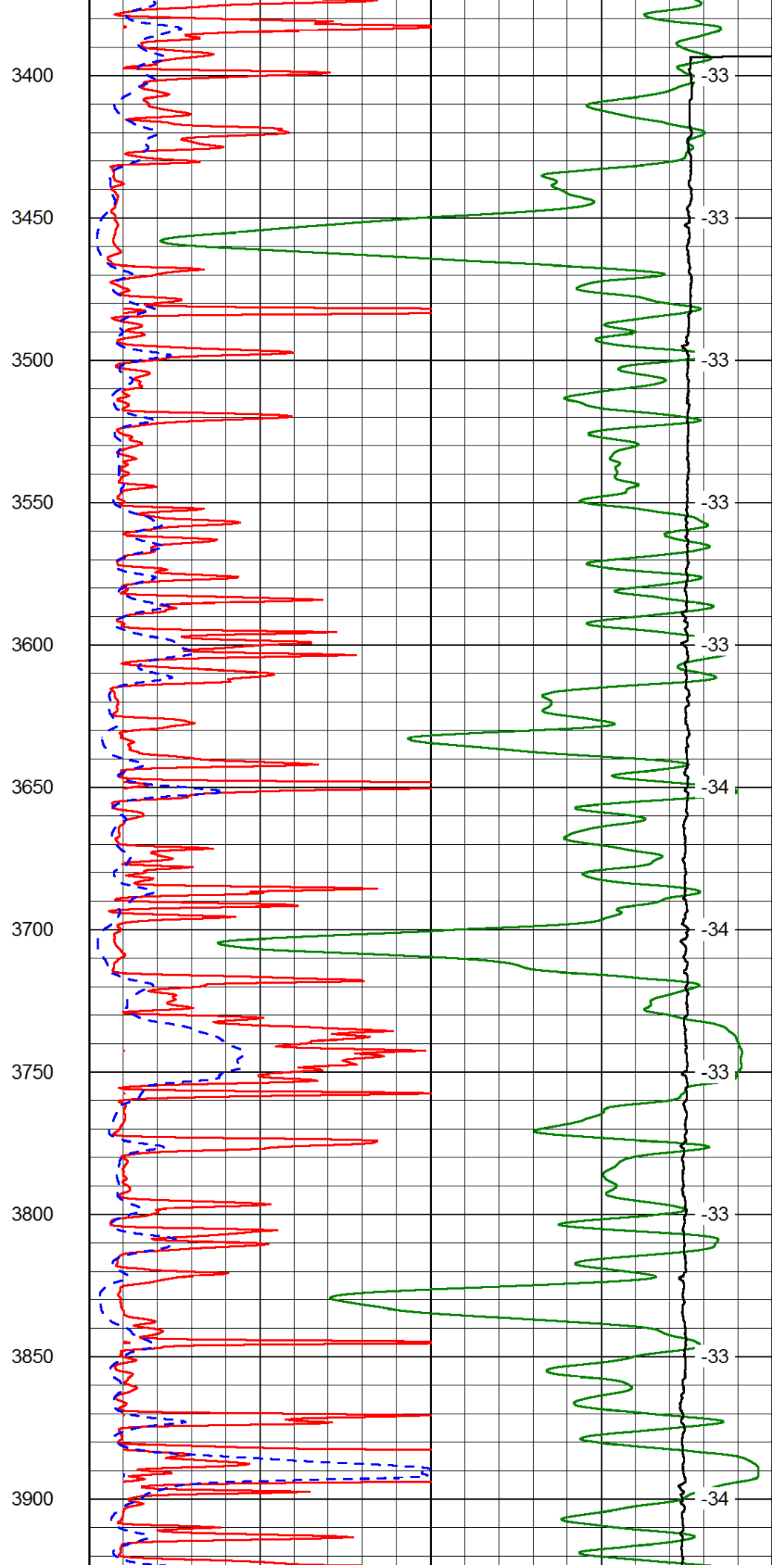
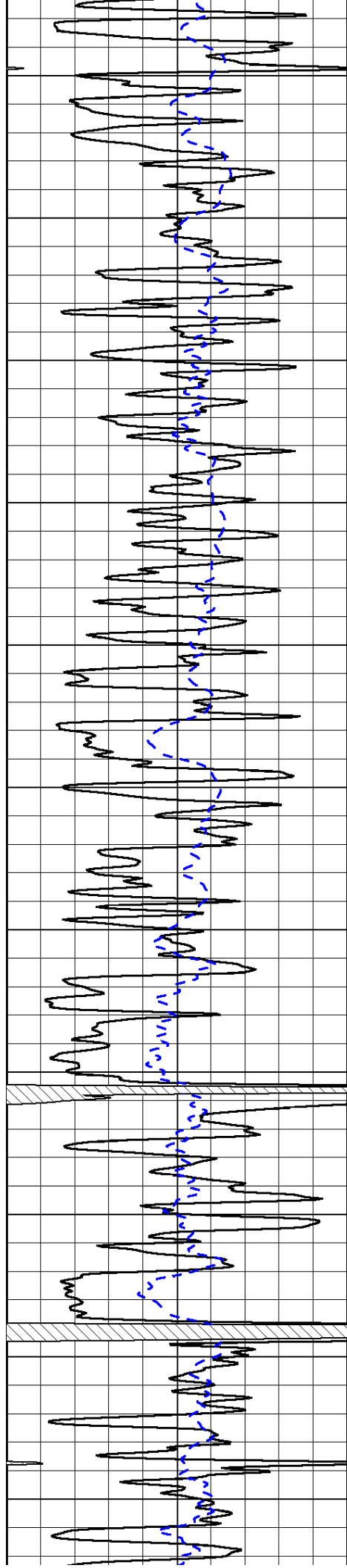


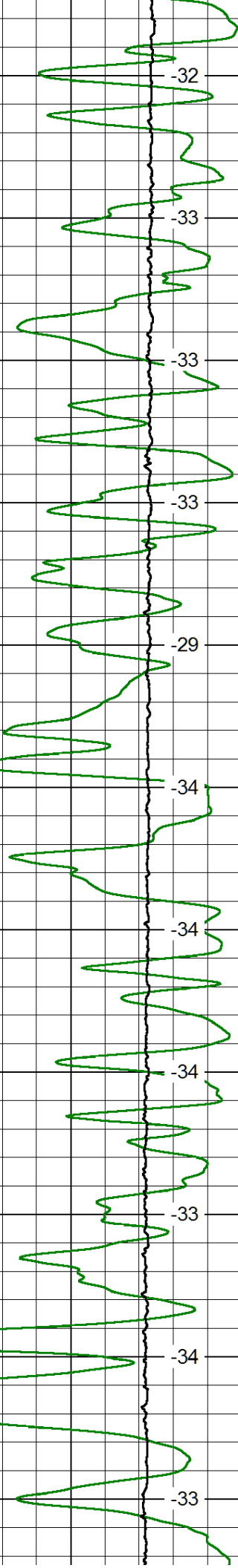
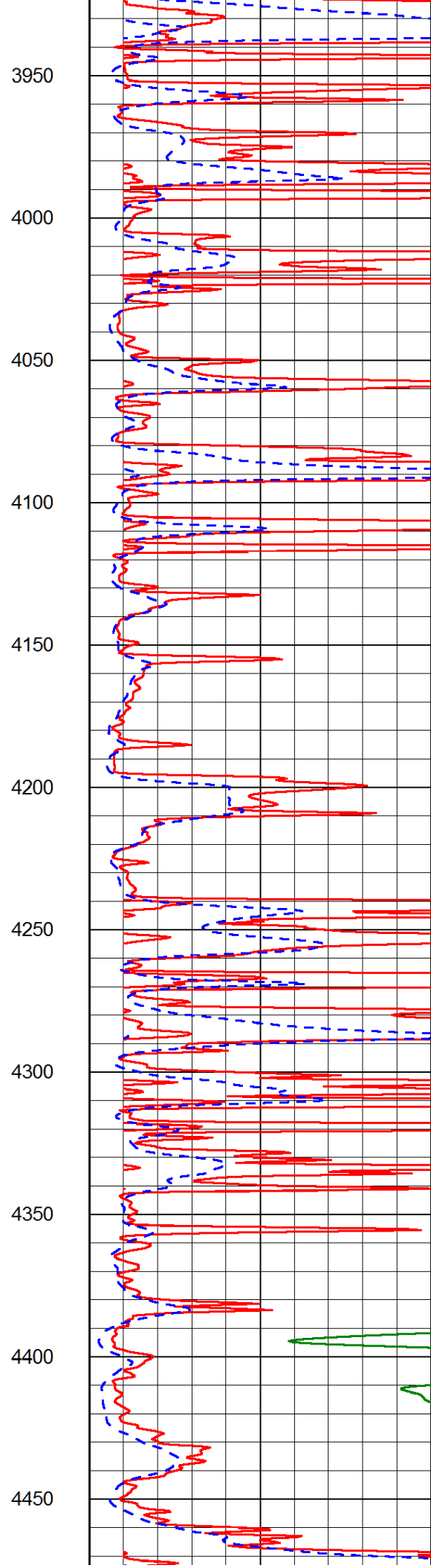
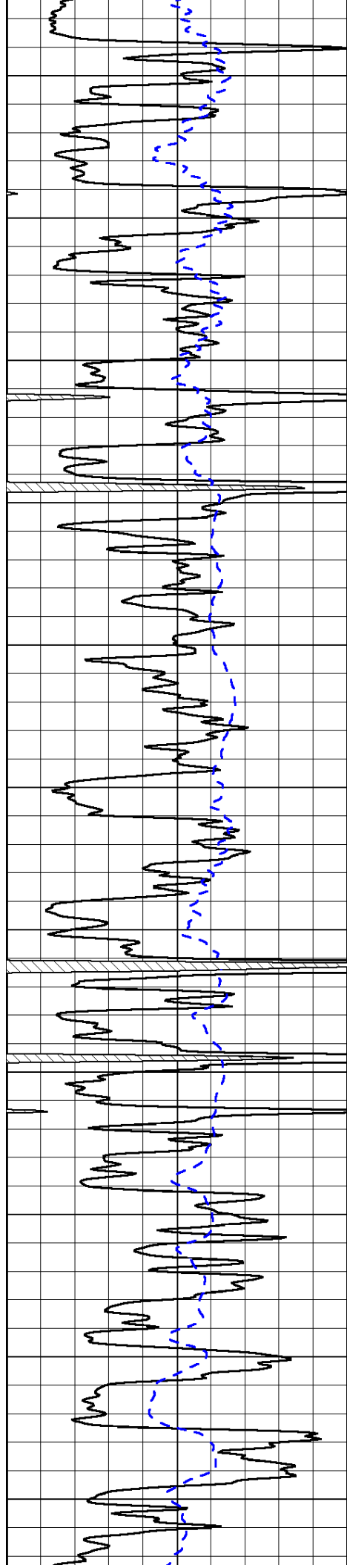


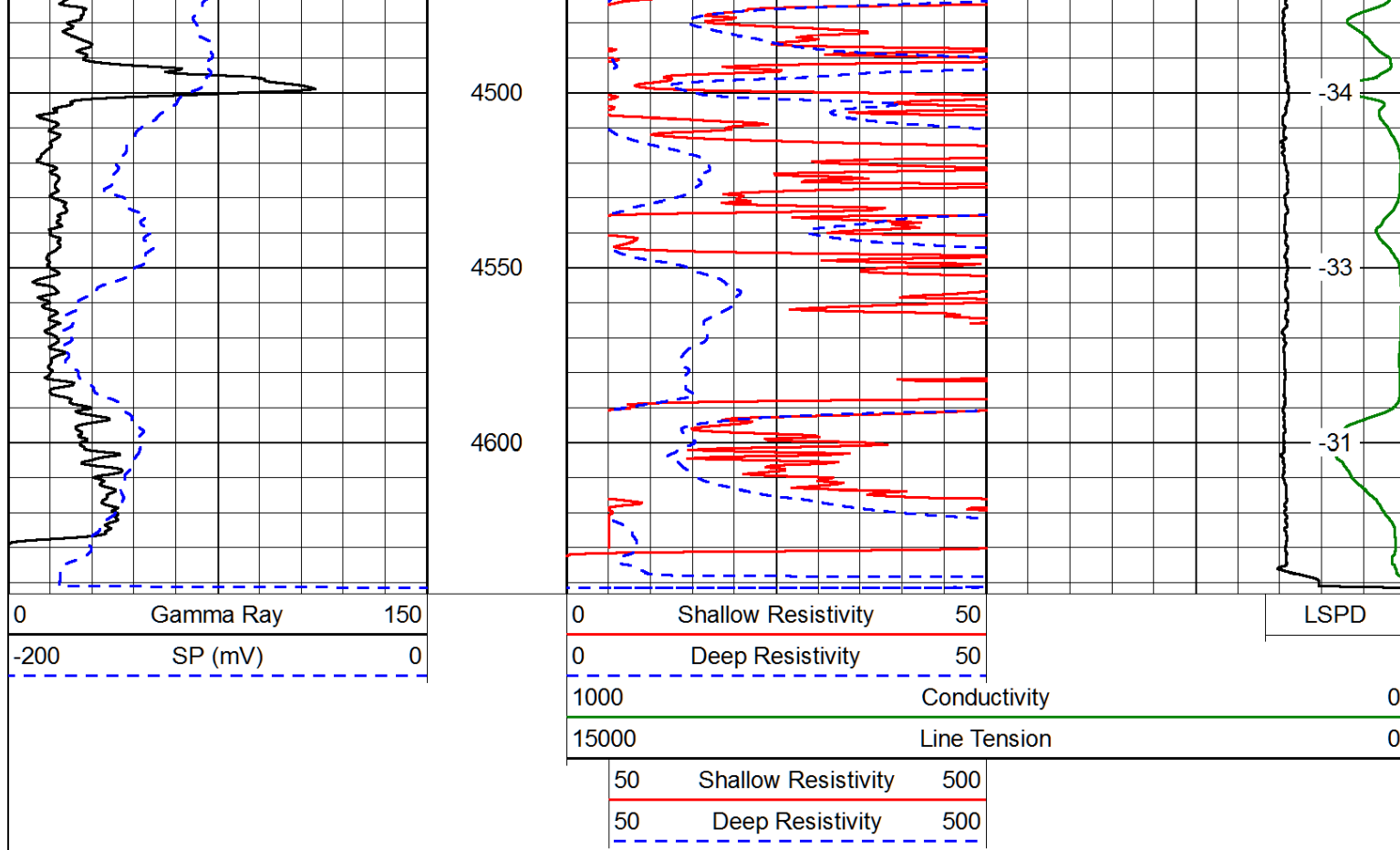




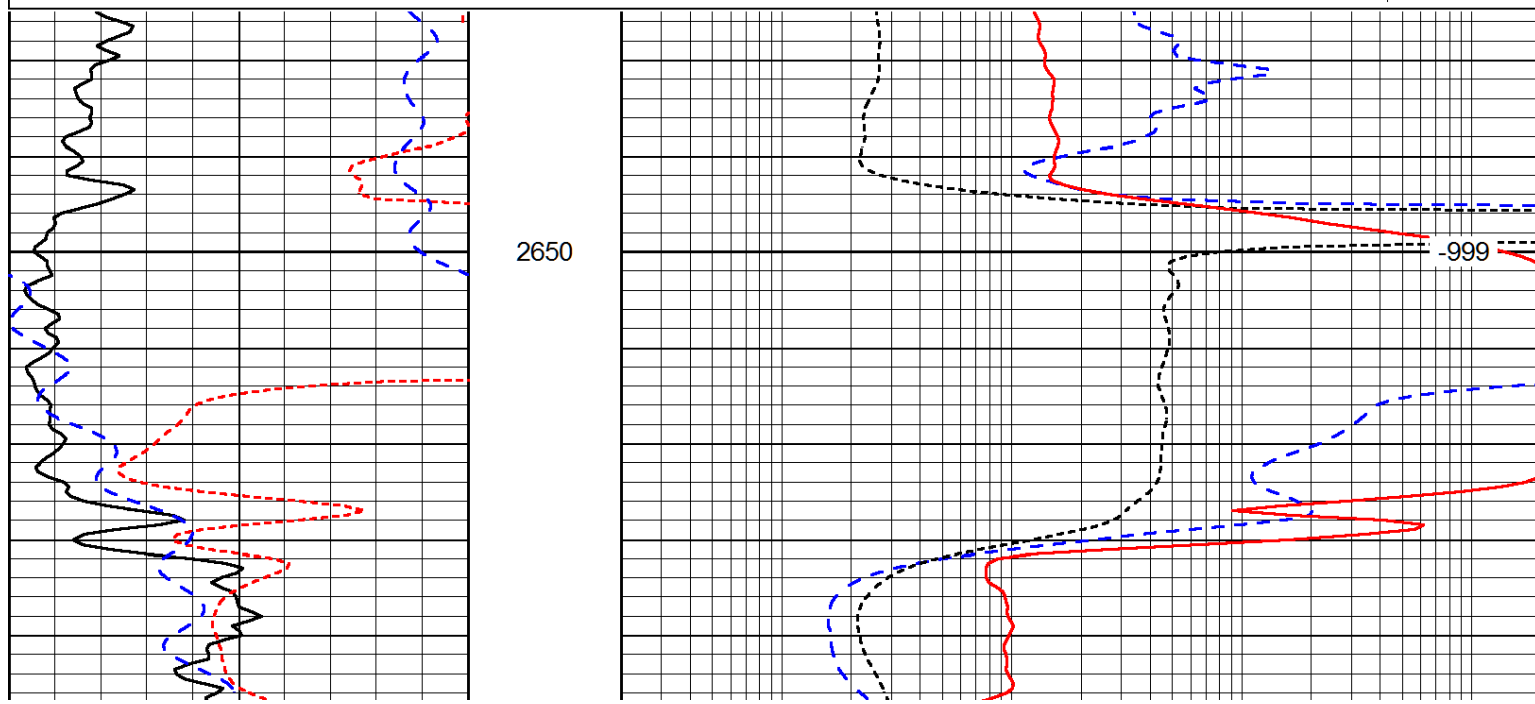
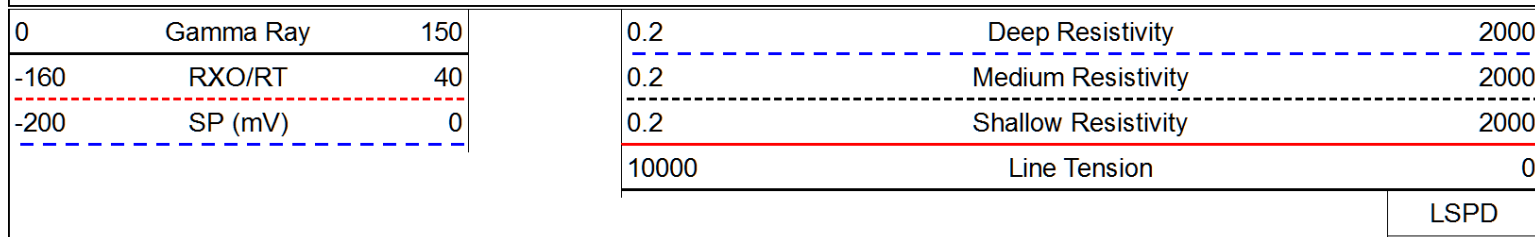


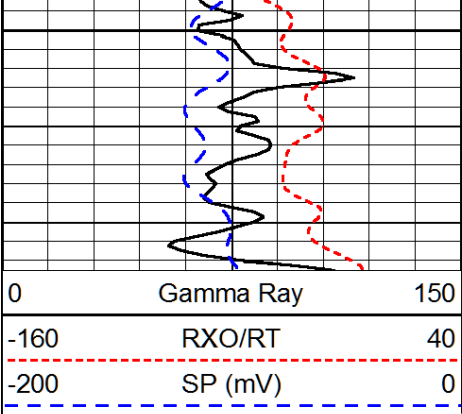




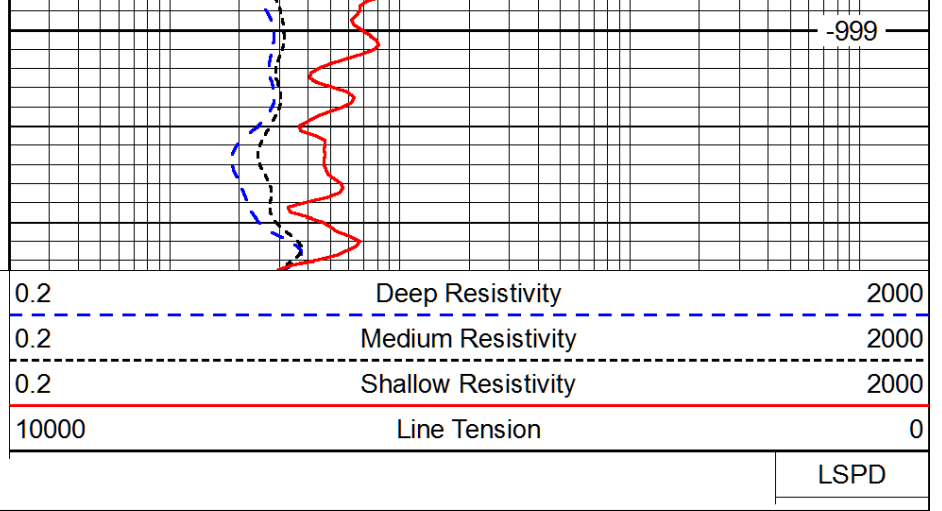


Database File: ruda_hd.db
 Dataset Pathname: dil/rudm2
 Presentation Format: dil
 Dataset Creation: Tue Jun 17 13:00:53 2014
 Charted by: Depth in Feet scaled 1:240

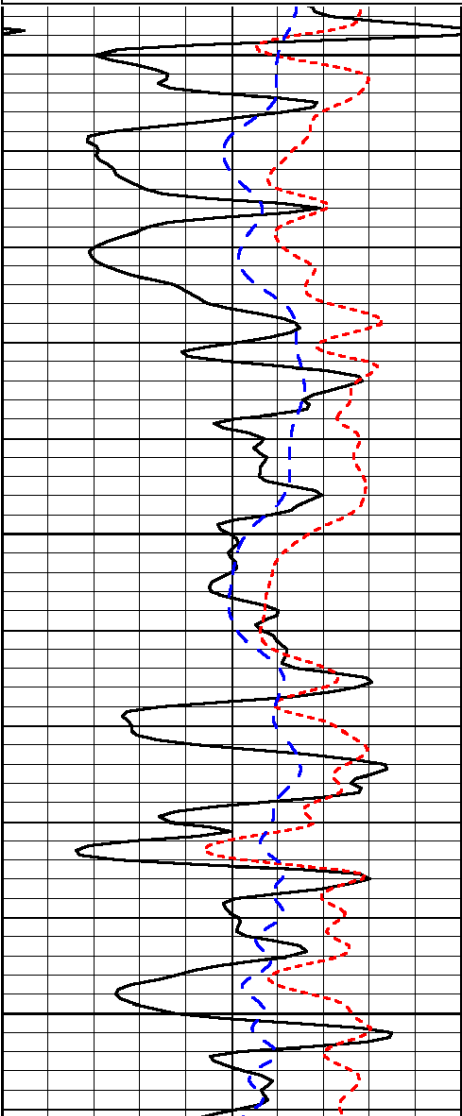
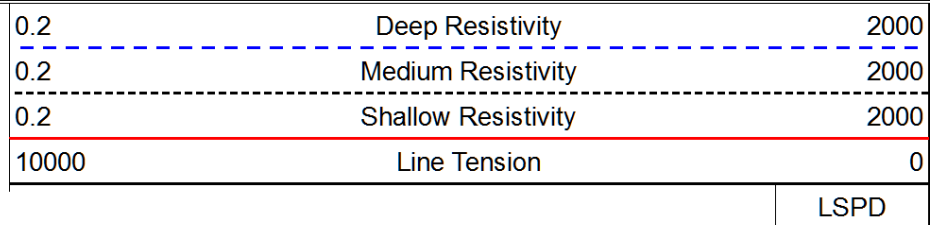
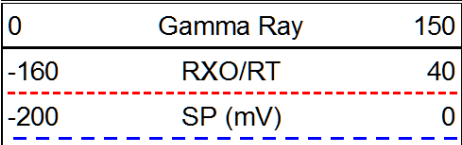




2700



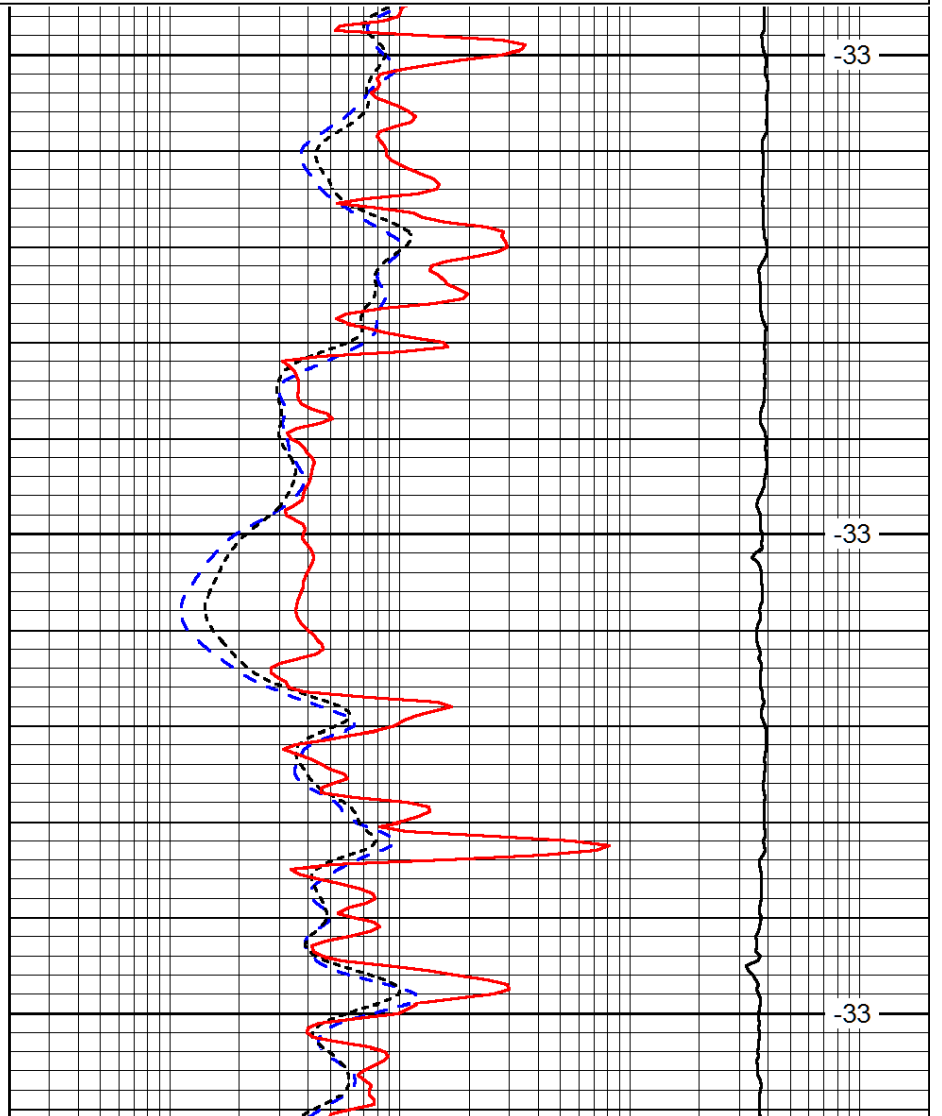
Database File: ruda_hd.db
Dataset Pathname: dil/rudm2
Presentation Format: dil
Dataset Creation: Tue Jun 17 13:00:53 2014
Charted by: Depth in Feet scaled 1:240



3400

3450

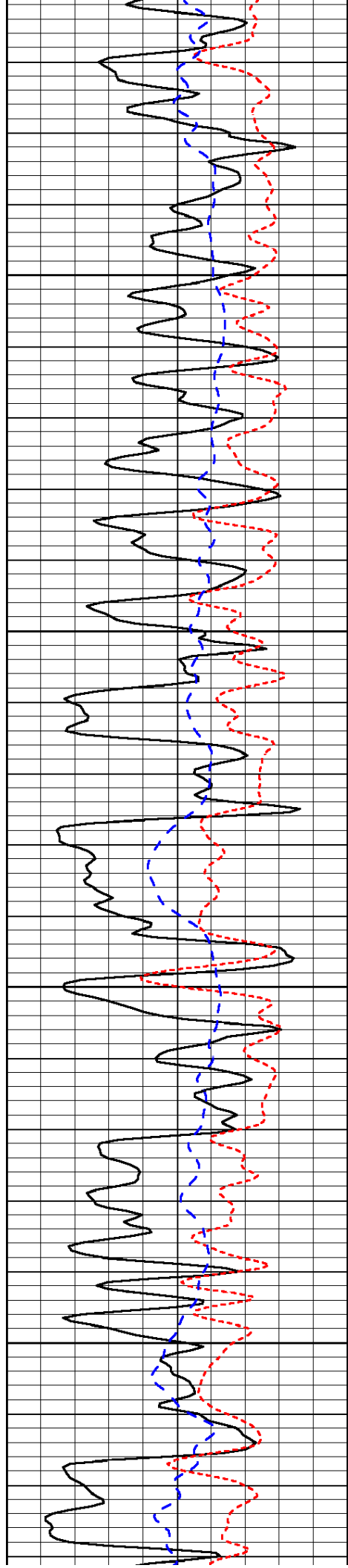
3500



-33

-33

-33

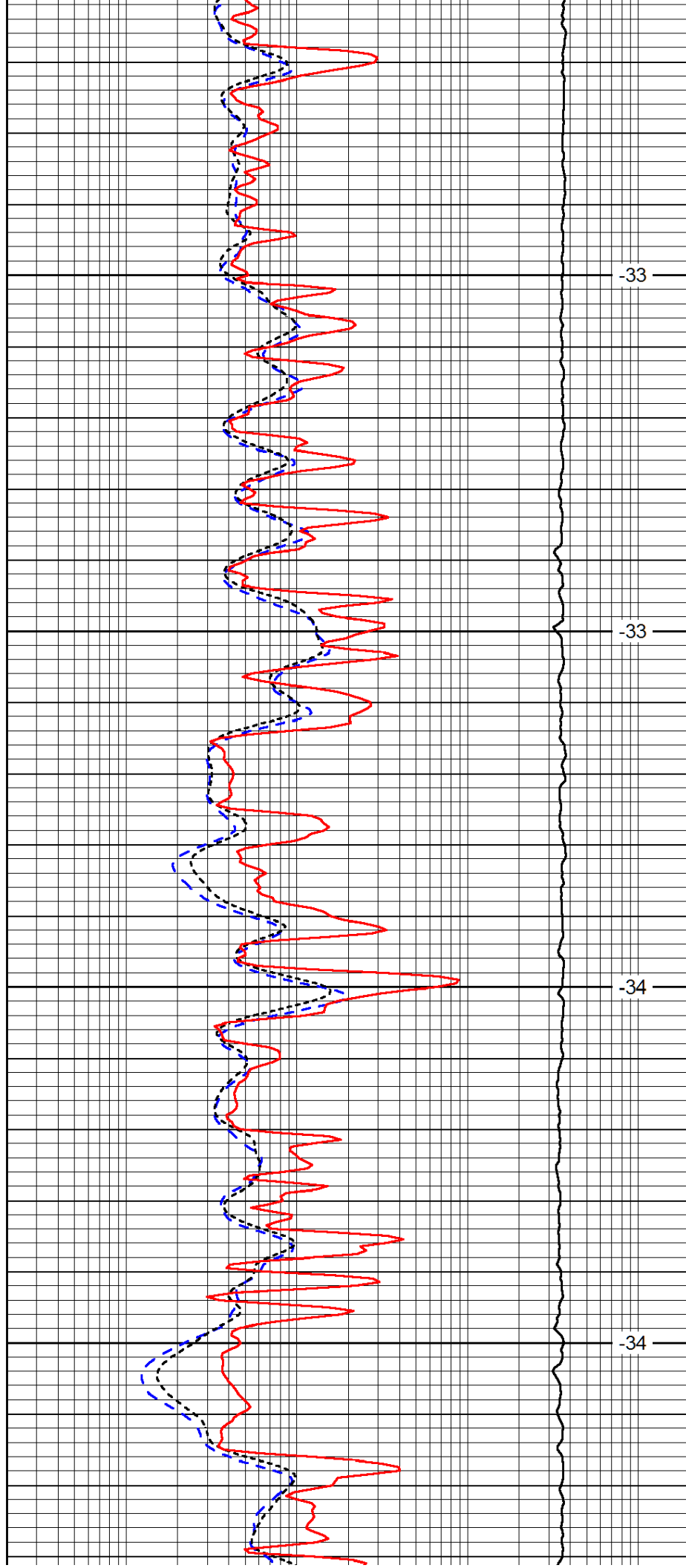


3550

3600

3650

3700

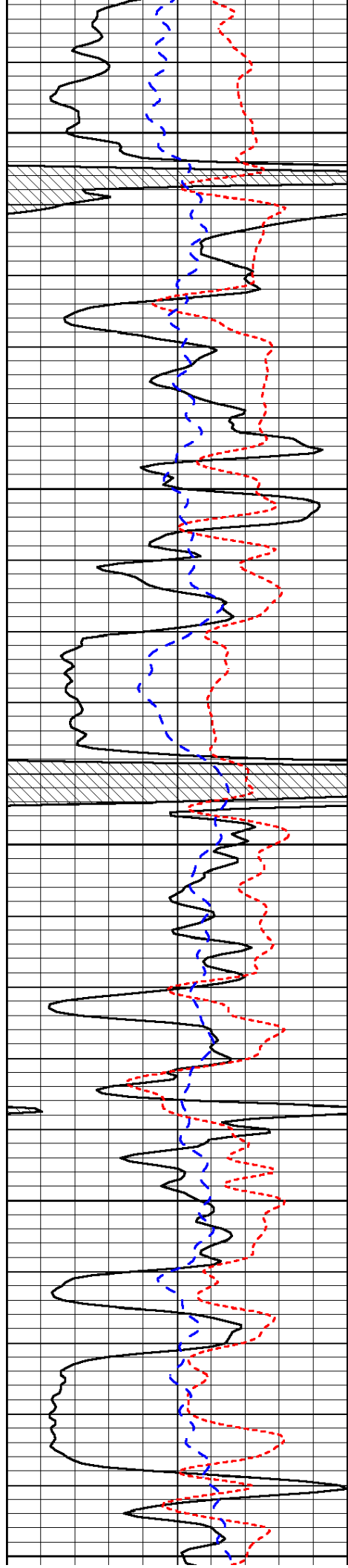


-33

-33

-34

-34



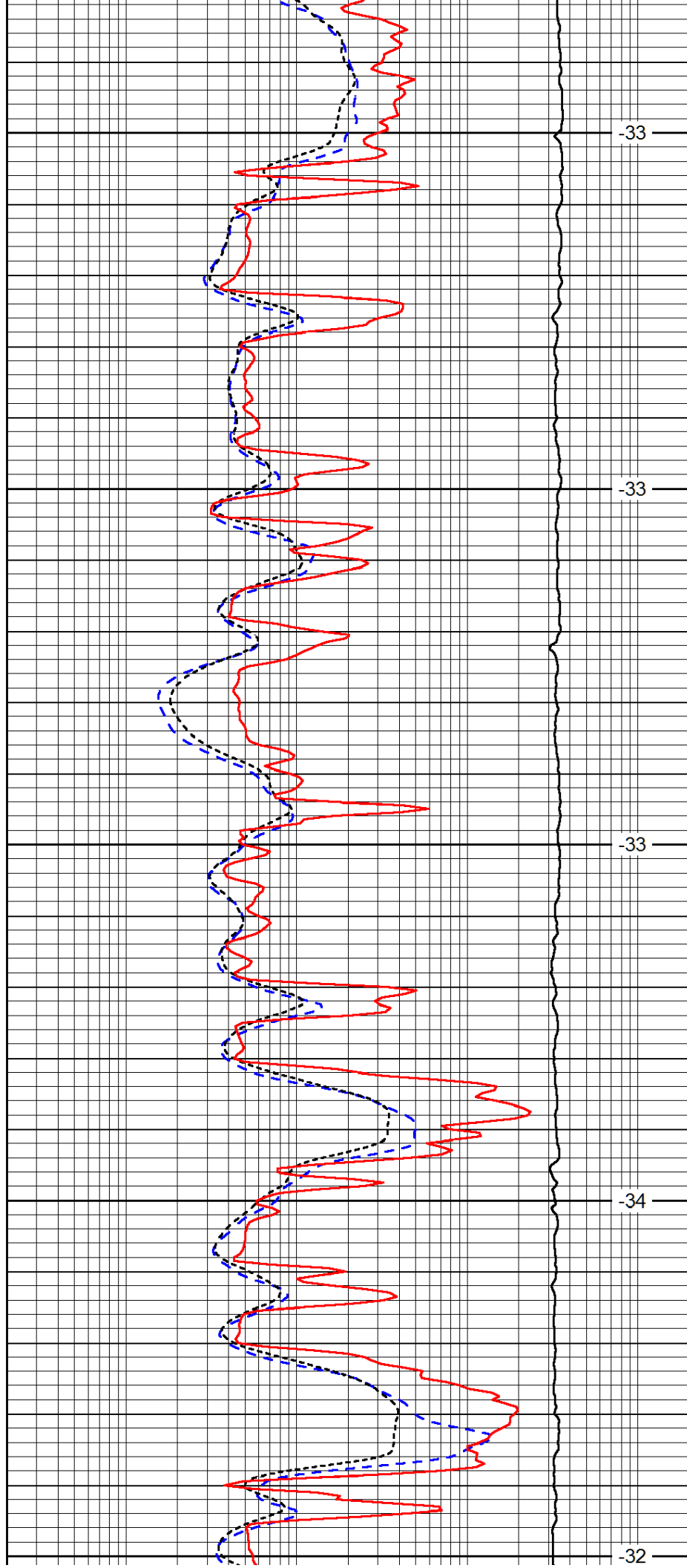
3750

3800

3850

3900

3950



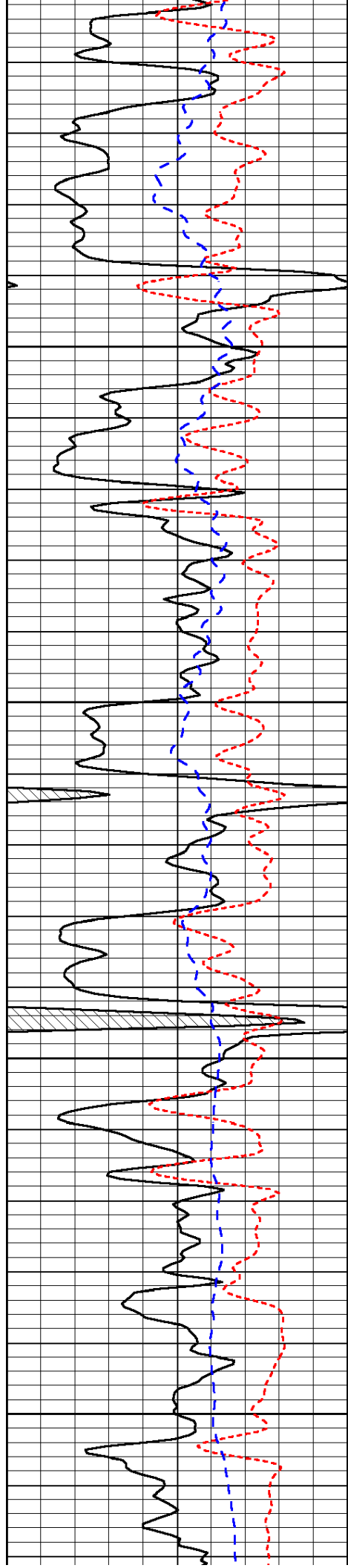
-33

-33

-33

-34

-32

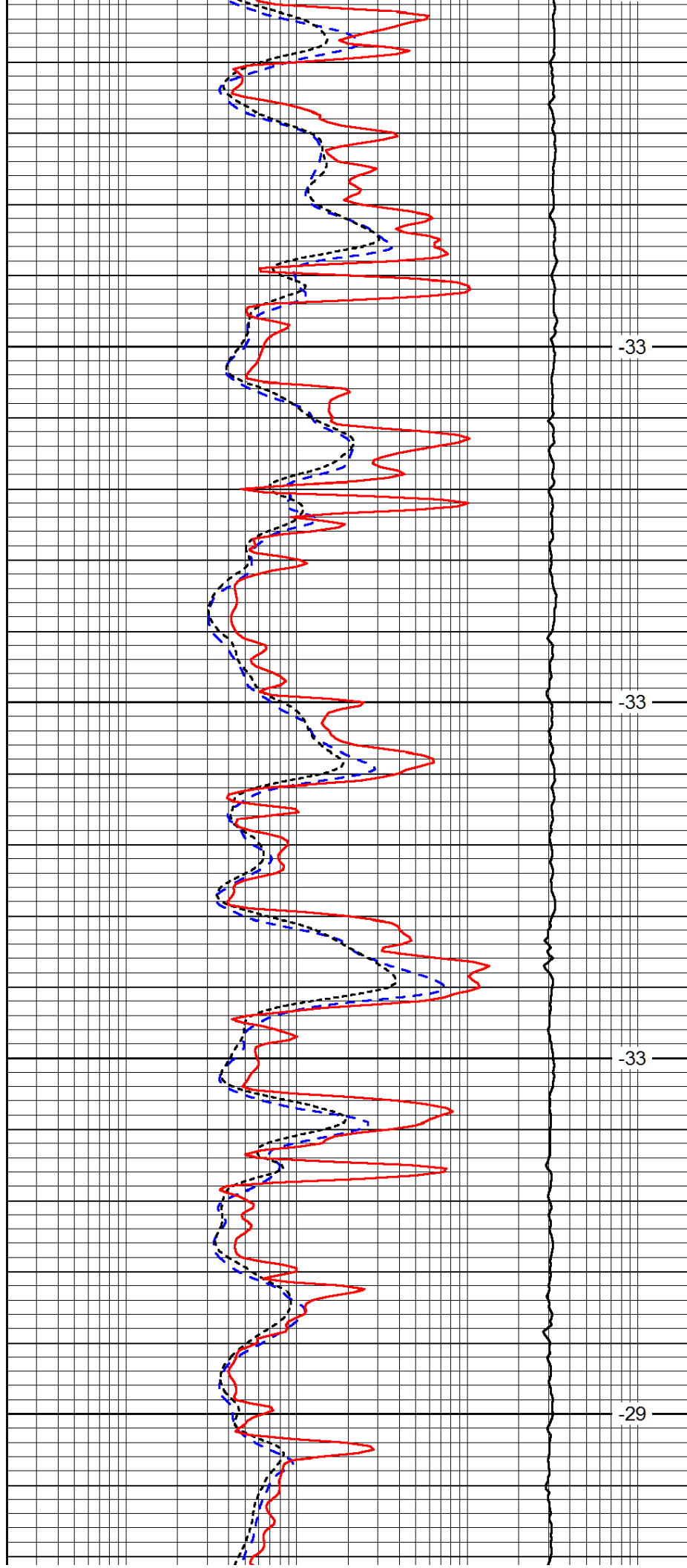


4000

4050

4100

4150

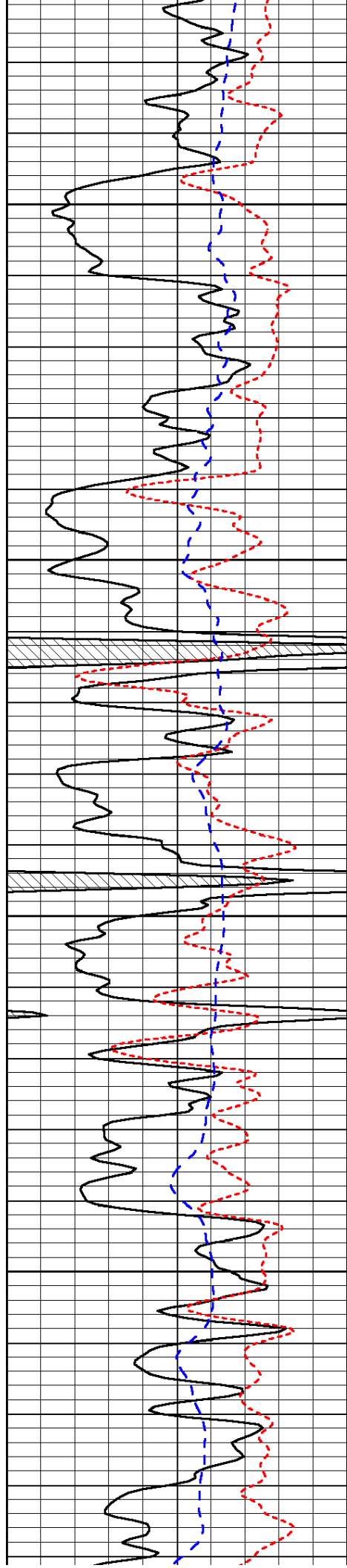


-33

-33

-33

-29

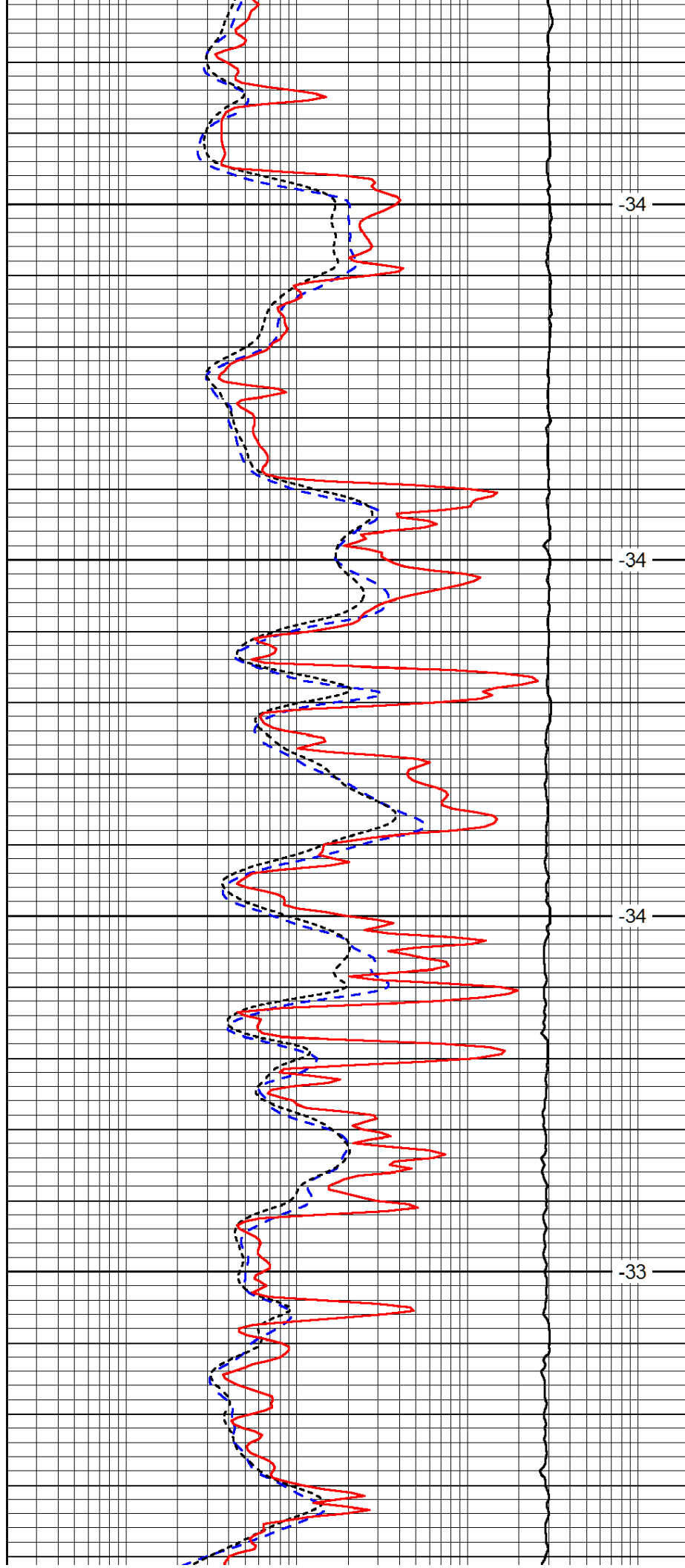


4200

4250

4300

4350

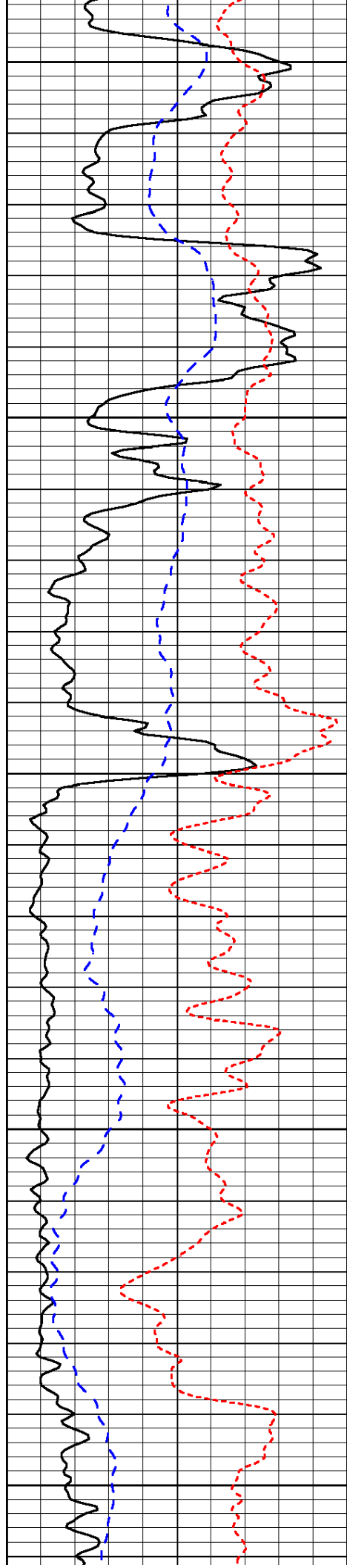


-34

-34

-34

-33



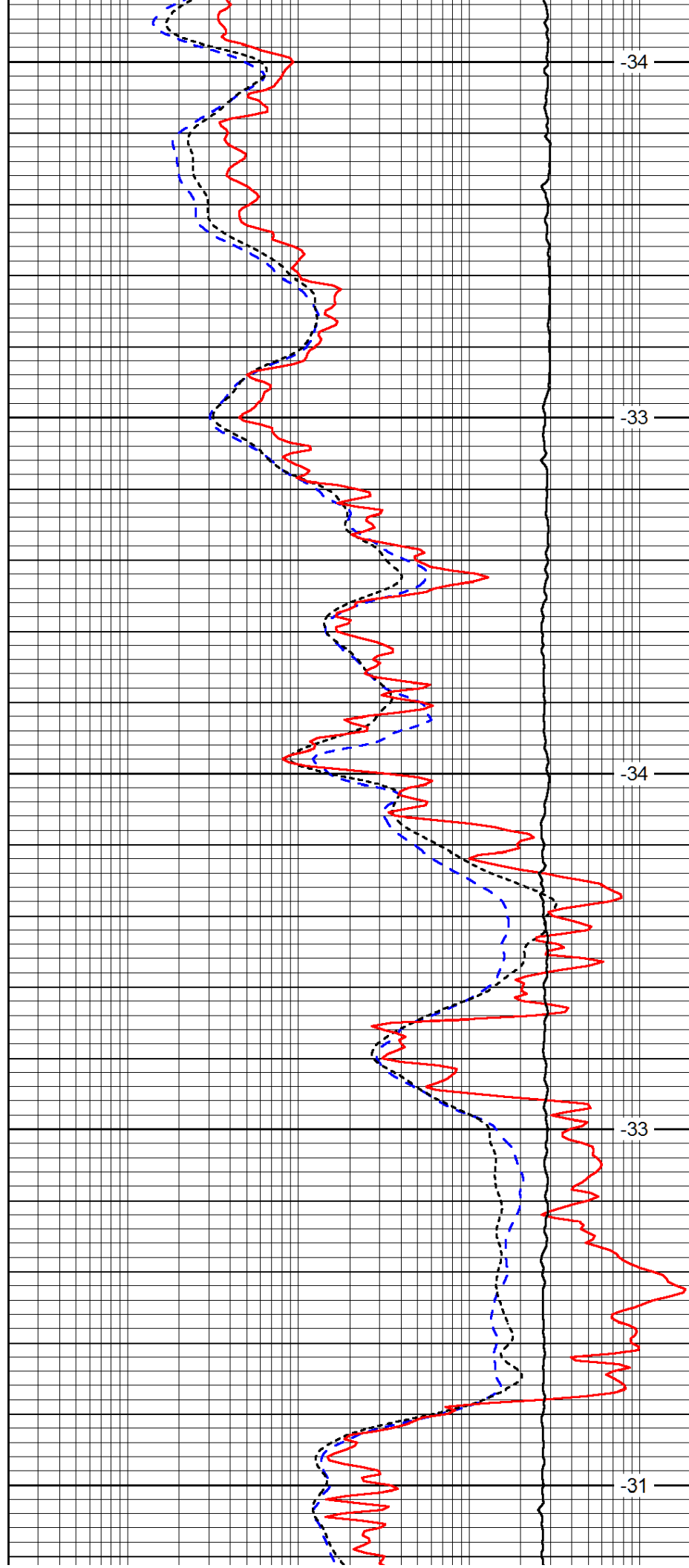
4400

4450

4500

4550

4600



-34

-33

-34

-33

-31

