



Pioneer Energy Services

Dual Induction Log

API No.

15-189-22811-00-00

Company Palmer Oil, Inc.

Well Laura #21-2

Field Gentzler North

County Stevens State

Kansas

Location

E2 E2 SW SE
660' FSL / 1600' FEL

Sec: 21

Twp: 32S

Rge: 37W

Elevation

Permanent Datum Ground Level Elevation 3136
Log Measured From Kelly Bushing 12 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

K.B. 3148
D.F.
G.L. 3136

Date

9/15/2013

Run Number

One

Depth Driller

6550

Depth Logger

6538

Bottom Logged Interval

6537

Top Log Interval

1750

Casing Driller

8.625 @ 1768

Casing Logger

1760

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

4600

Density / Viscosity

9.3 49

pH / Fluid Loss

9.0 11.6

Source of Sample

Flowline

Rm @ Meas. Temp

0.40 @ 65

Rmf @ Meas. Temp

0.30 @ 65

Rmc @ Meas. Temp

0.54 @ 65

Source of Rmf / Rmc

Charts

Rm @ BHT

0.18 @ 142

Operating Rig Time

6 Hours

Max Rec. Temp. F

142

Equipment Number

17

Location

Hays

Recorded By

R. Barnhart

Witnessed By

Wyatt Urban

<<< 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

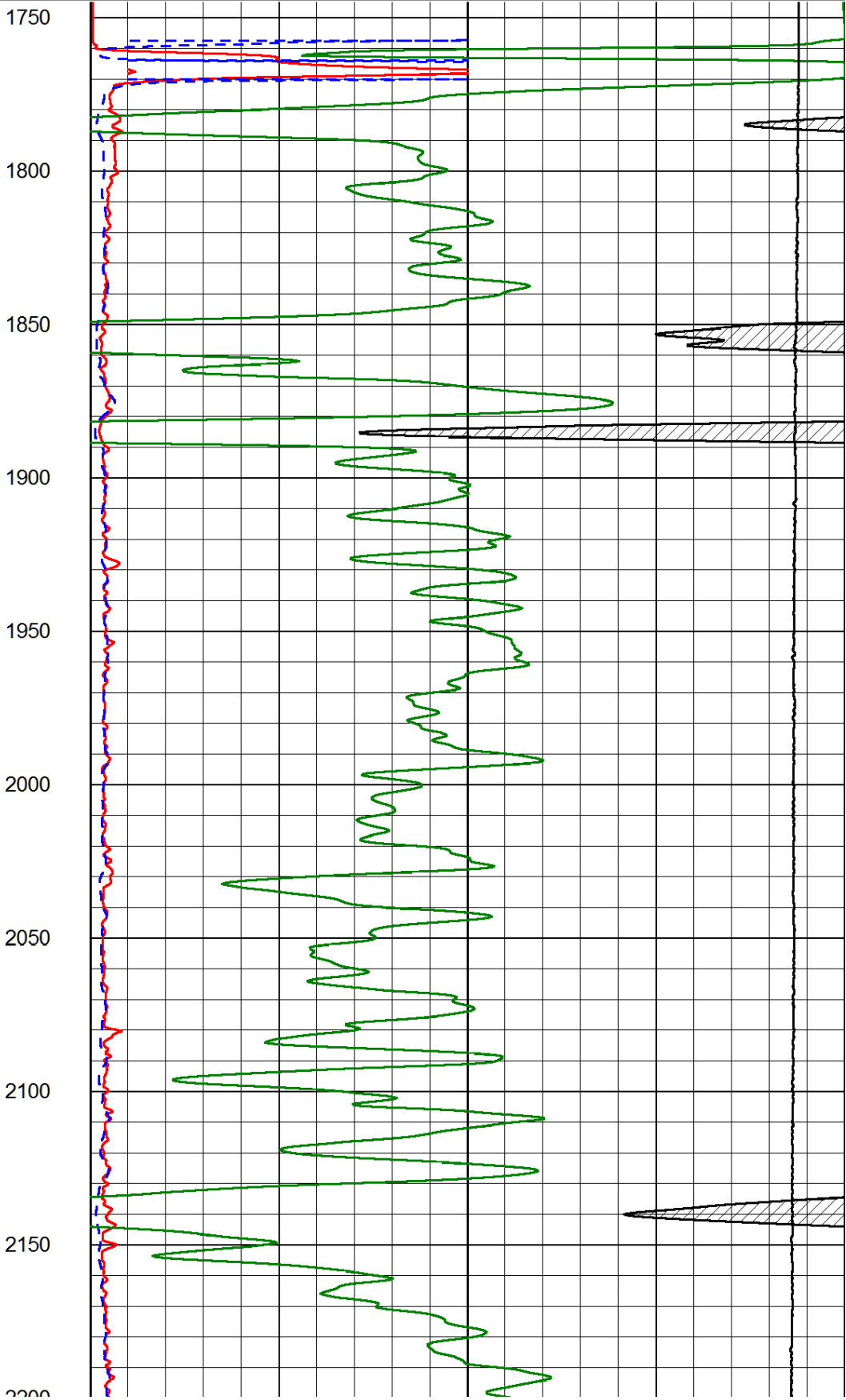
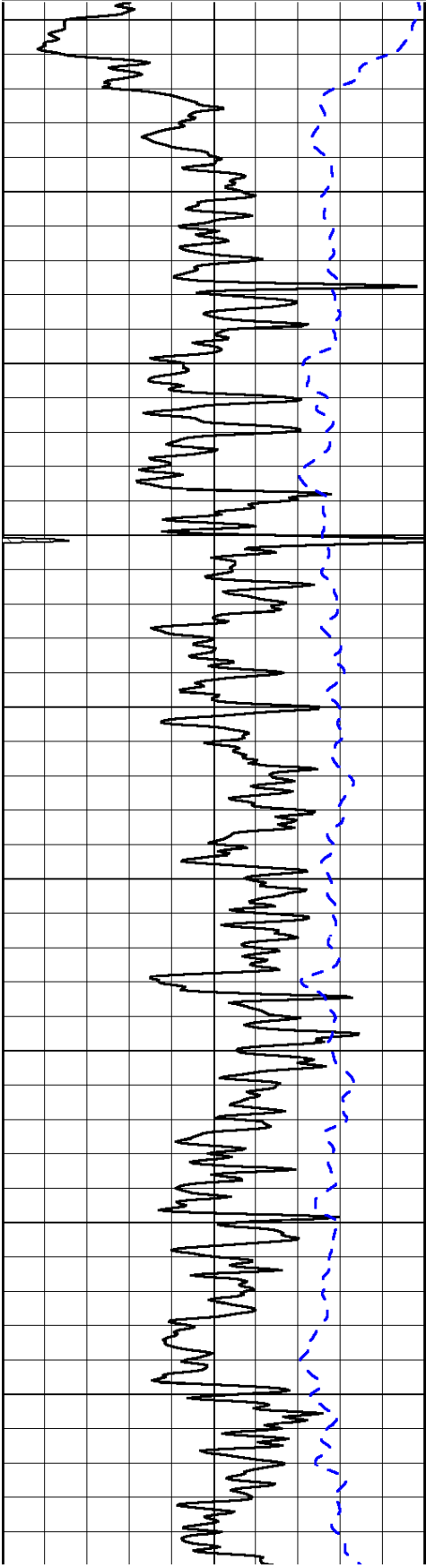
Thank you for using Log-Tech, Inc.
(785) 625-3858

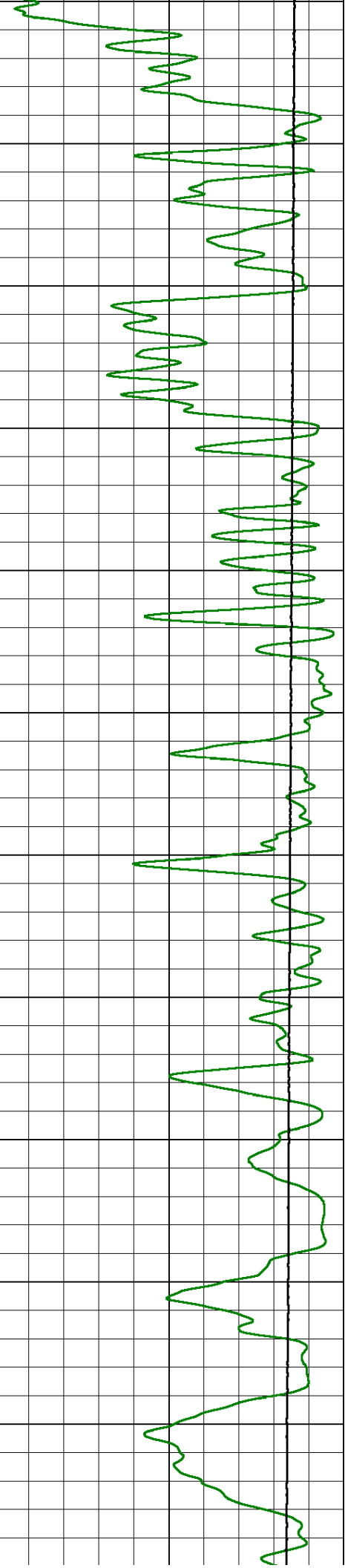
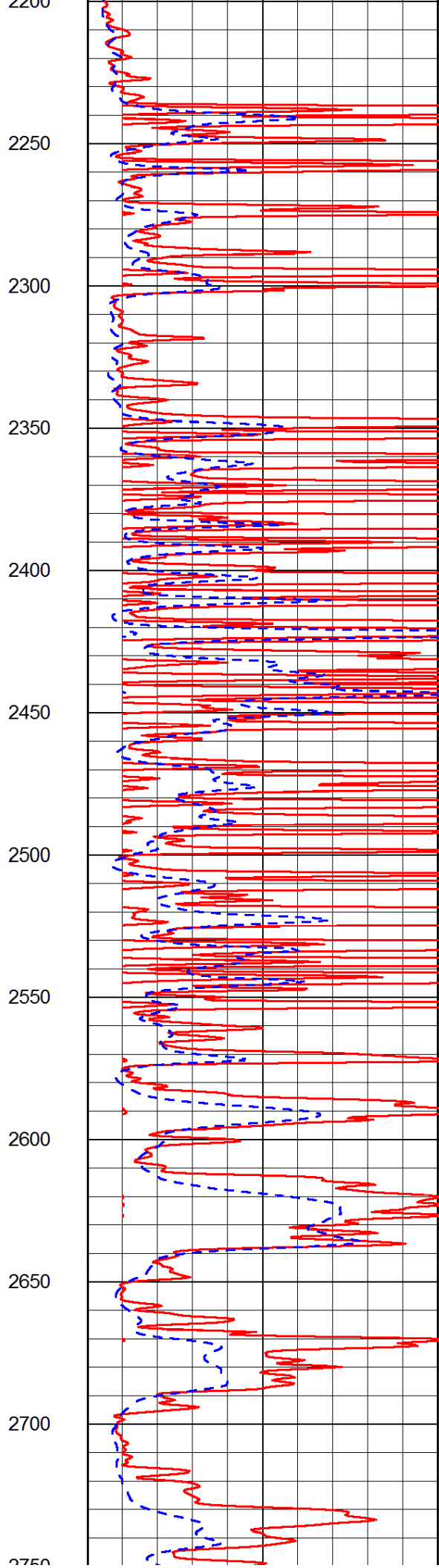
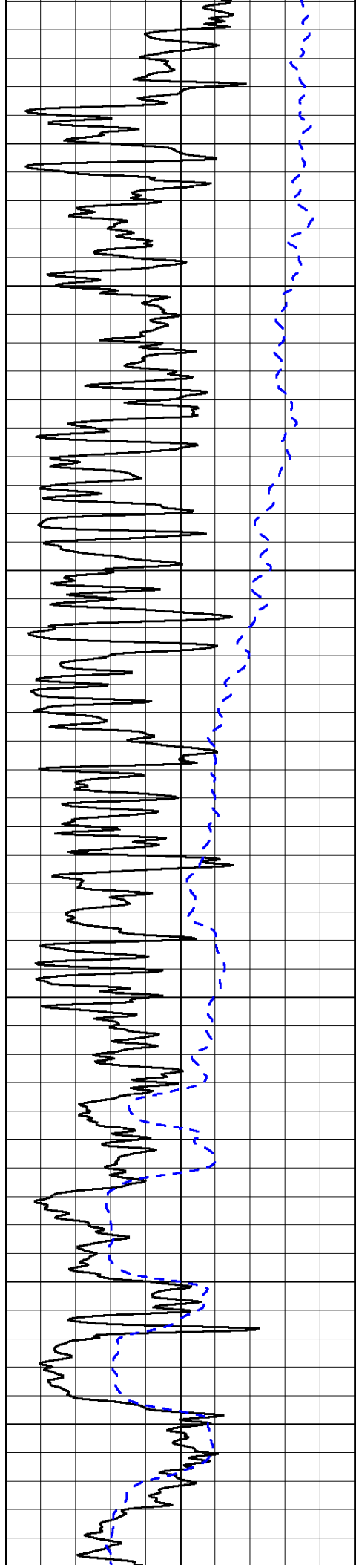
Hugoton, KS:
3N, 1/2W, N into

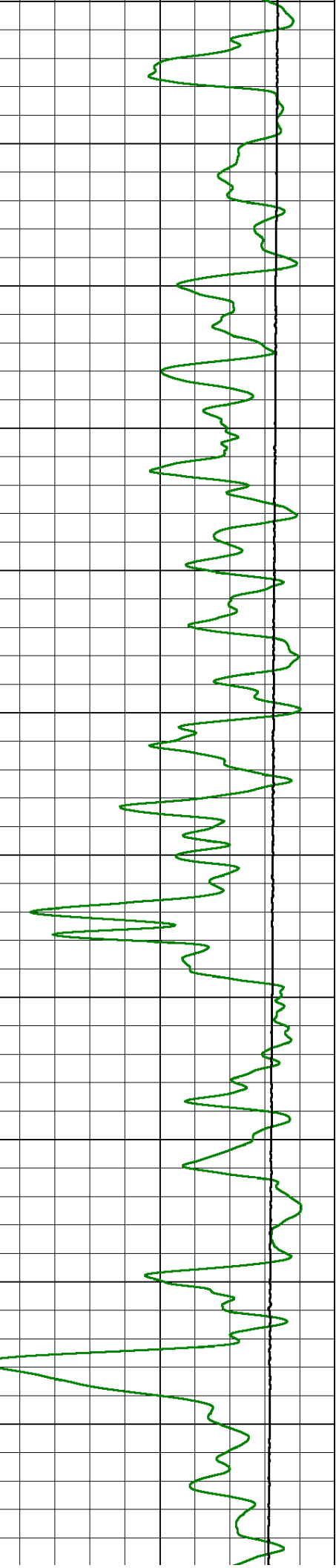
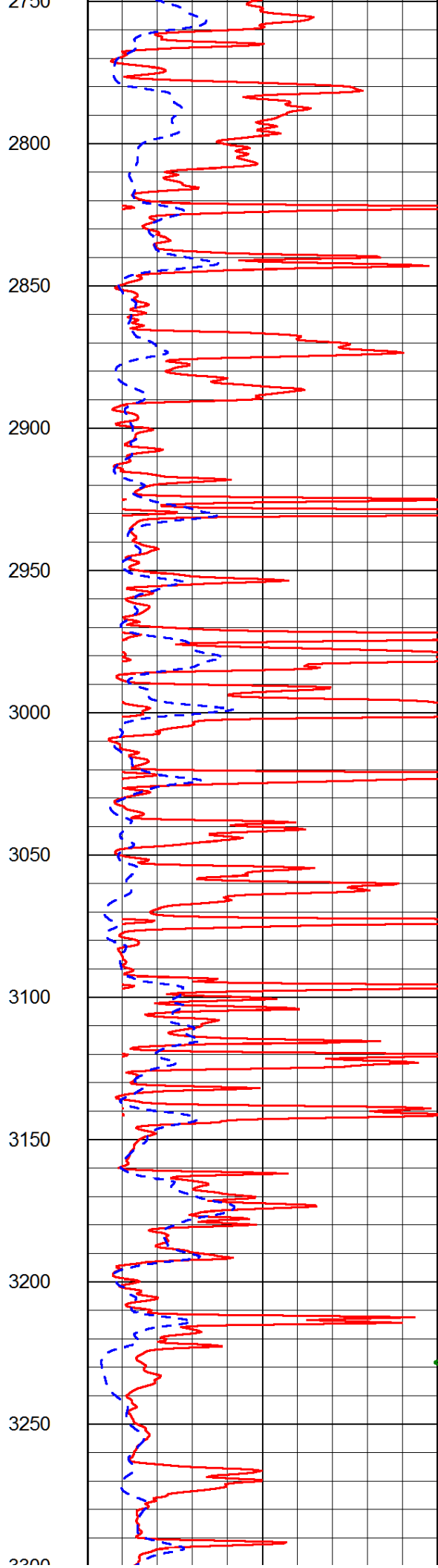
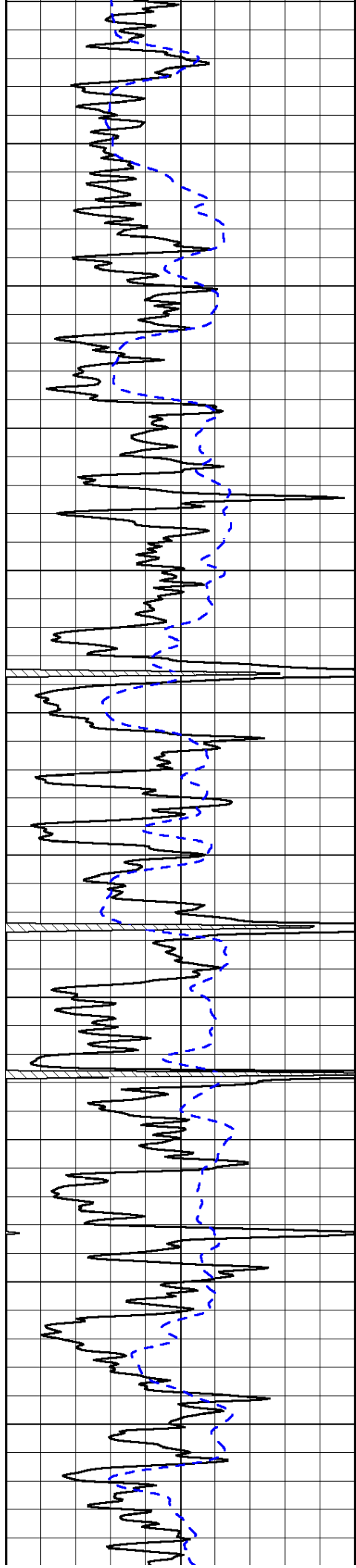
Database File: palmer_hd.db
Dataset Pathname: dil/palmain
Presentation Format: dil2in
Dataset Creation: Sun Sep 15 10:43:18 2013
Charted by: Depth in Feet scaled 1:600

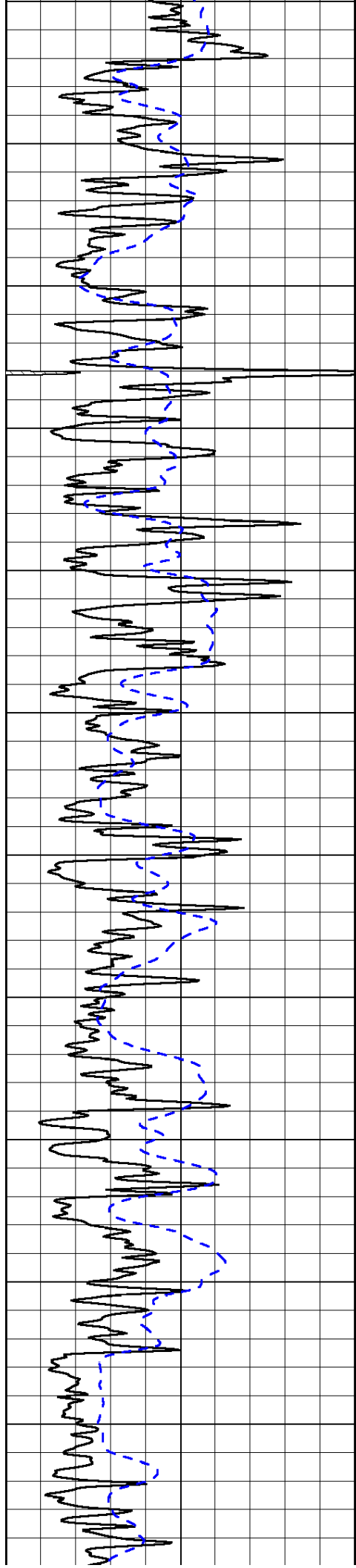
0	Gamma Ray (GAPI)	150
-200	SP (mV)	0

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

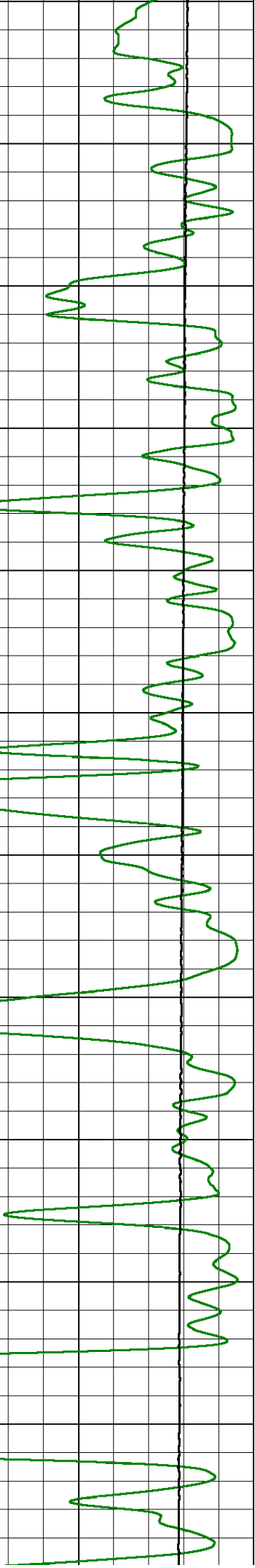
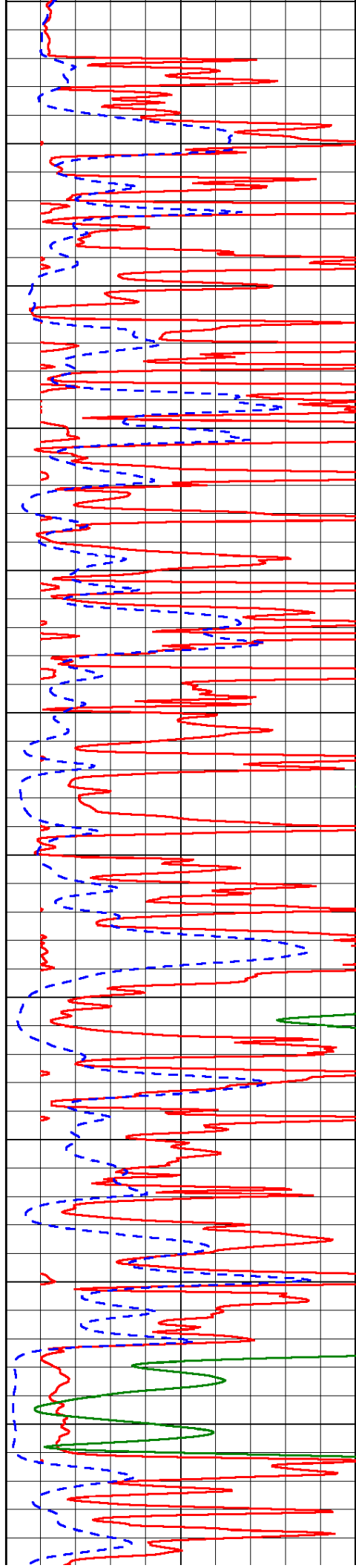


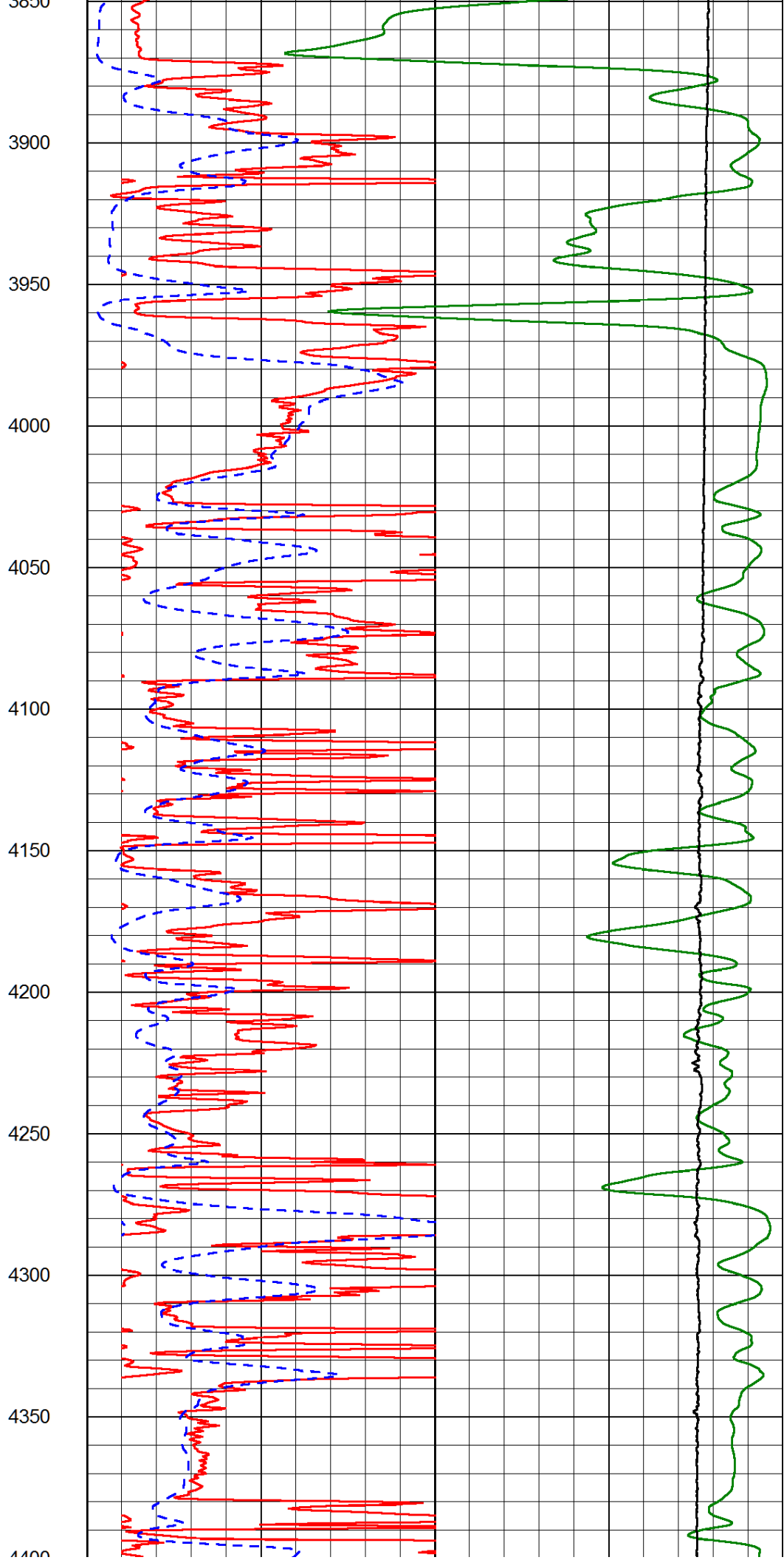
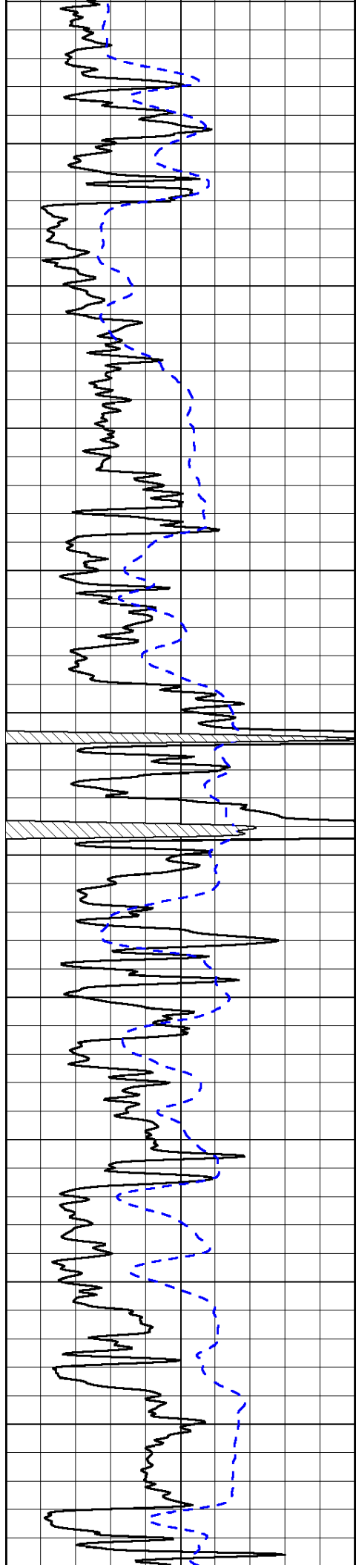


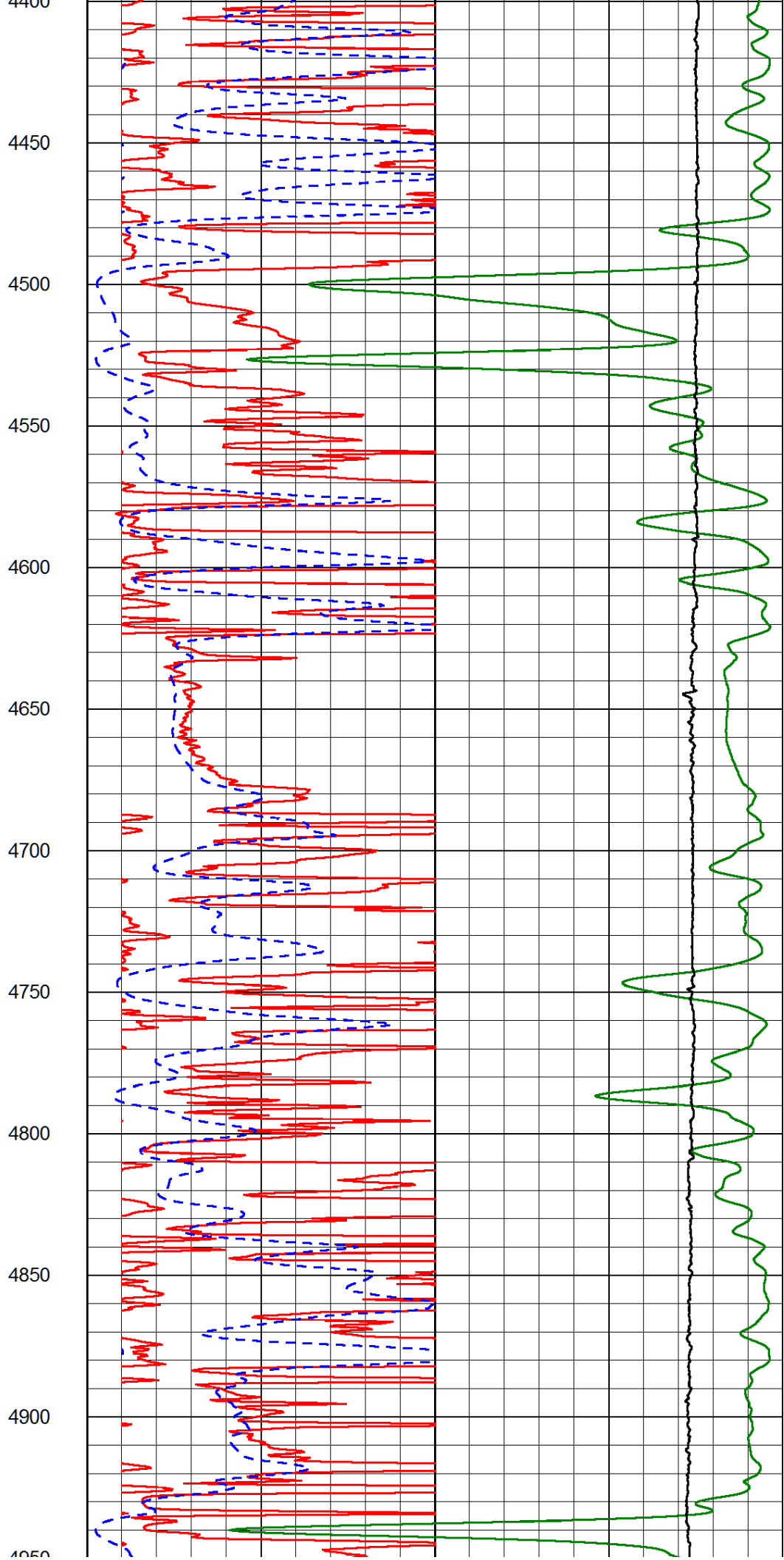
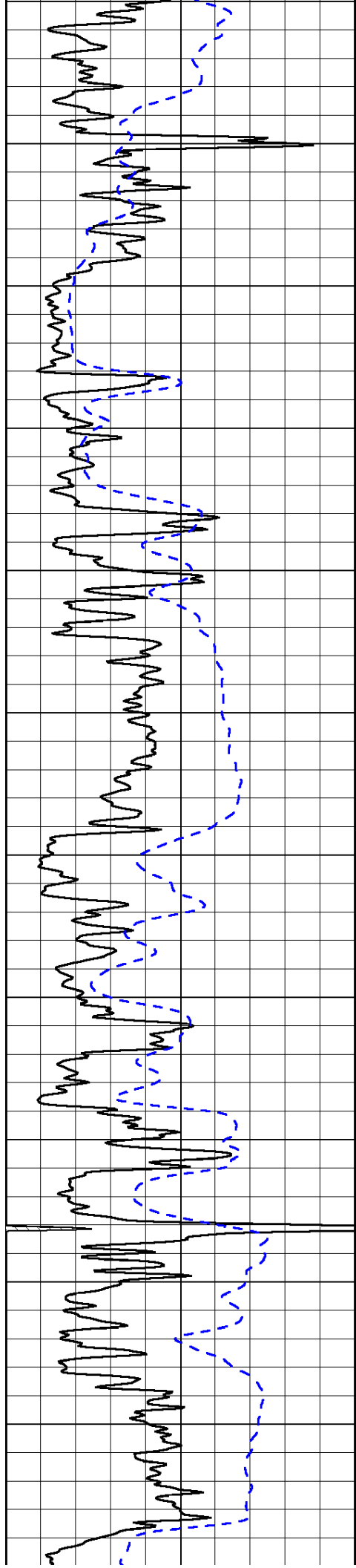


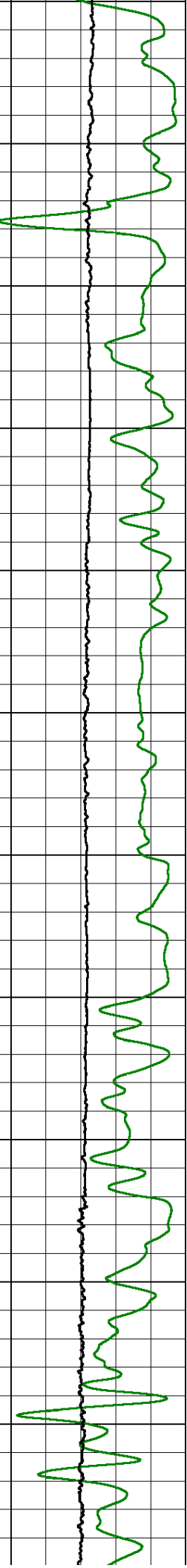
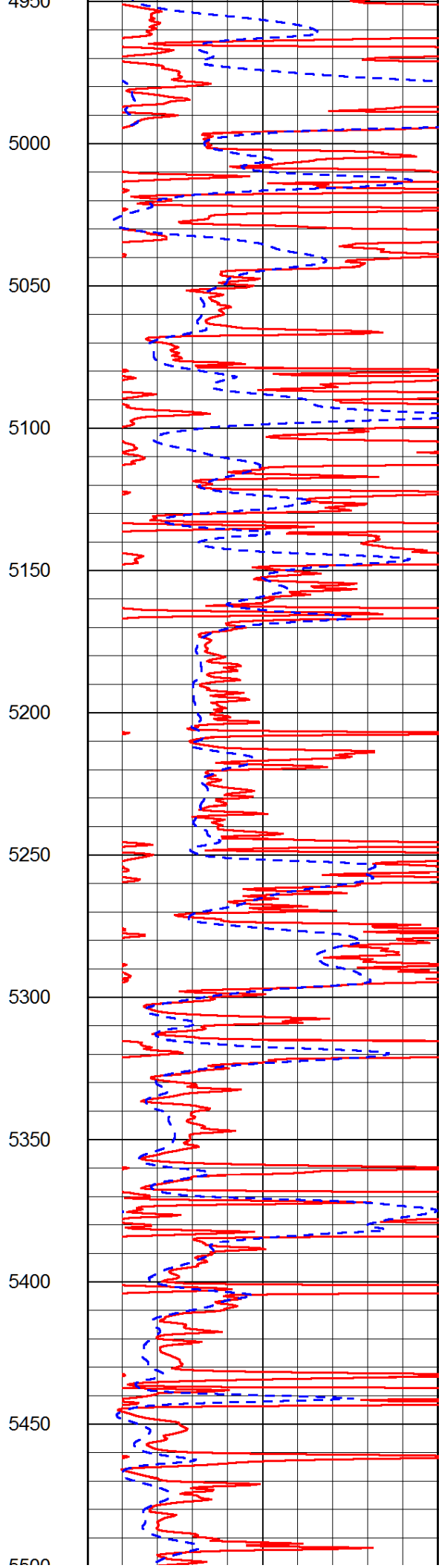
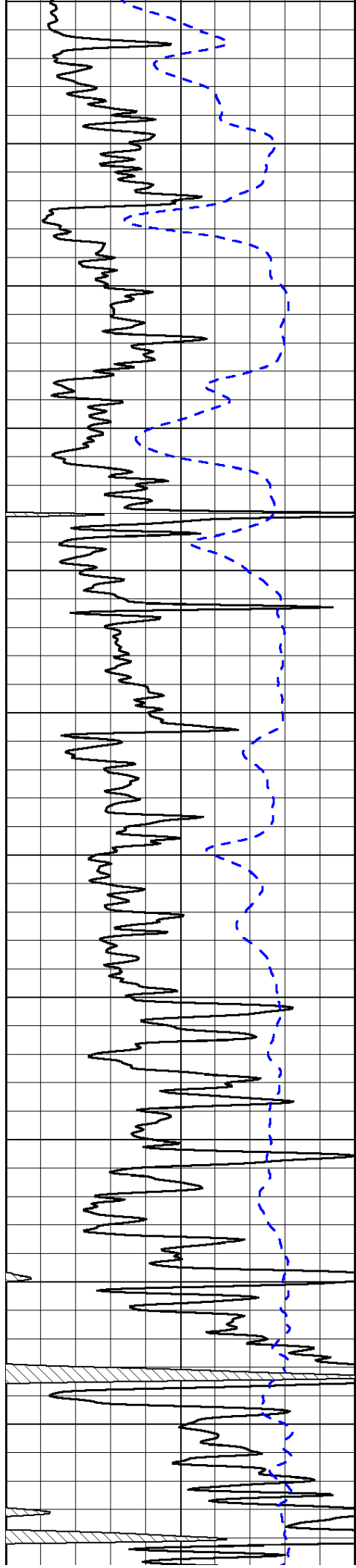


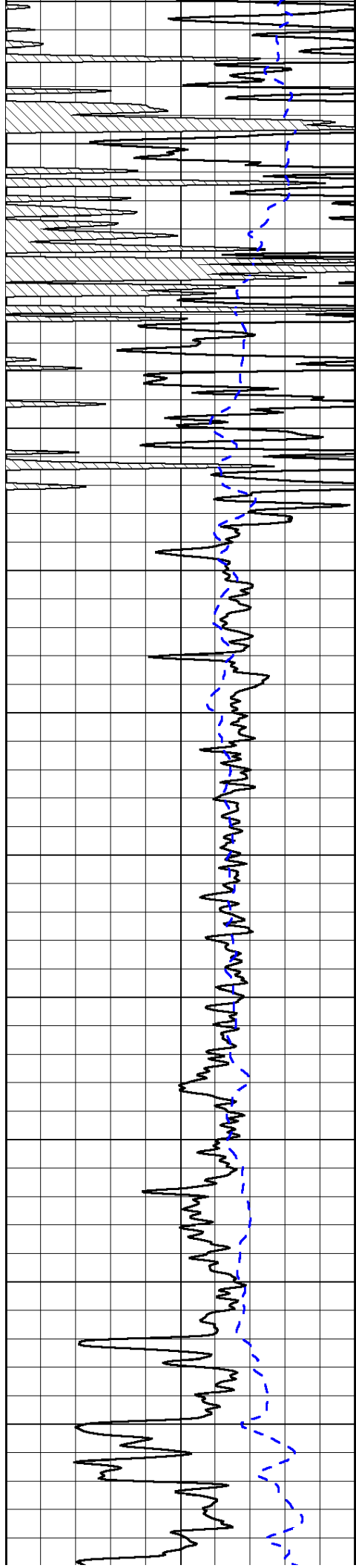
3300
3350
3400
3450
3500
3550
3600
3650
3700
3750
3800
3850



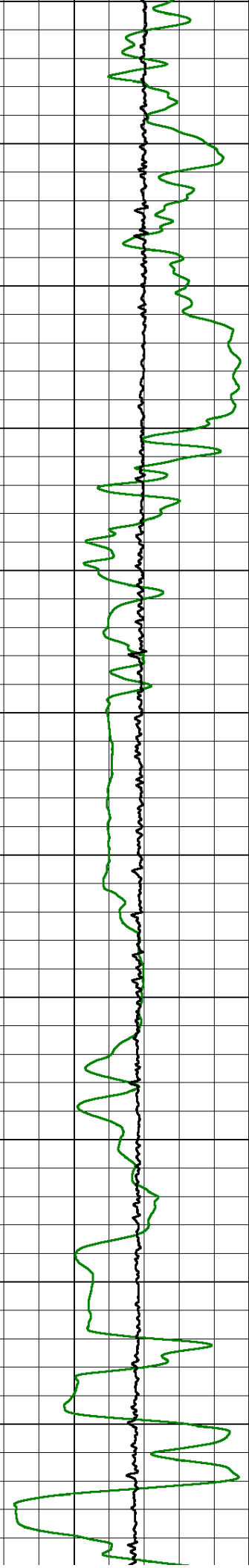
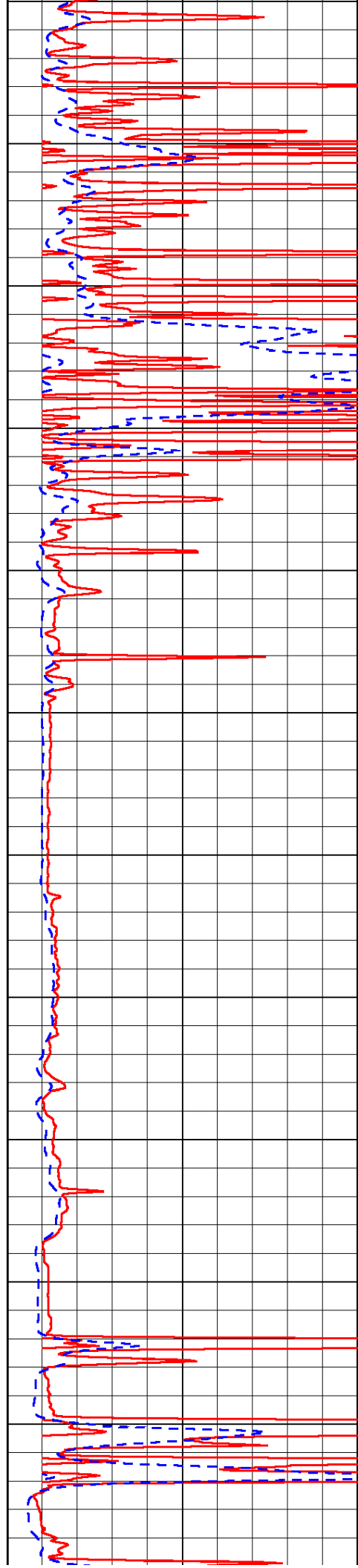


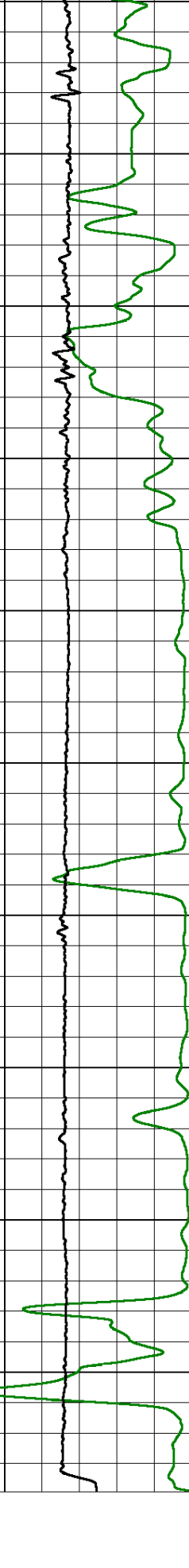
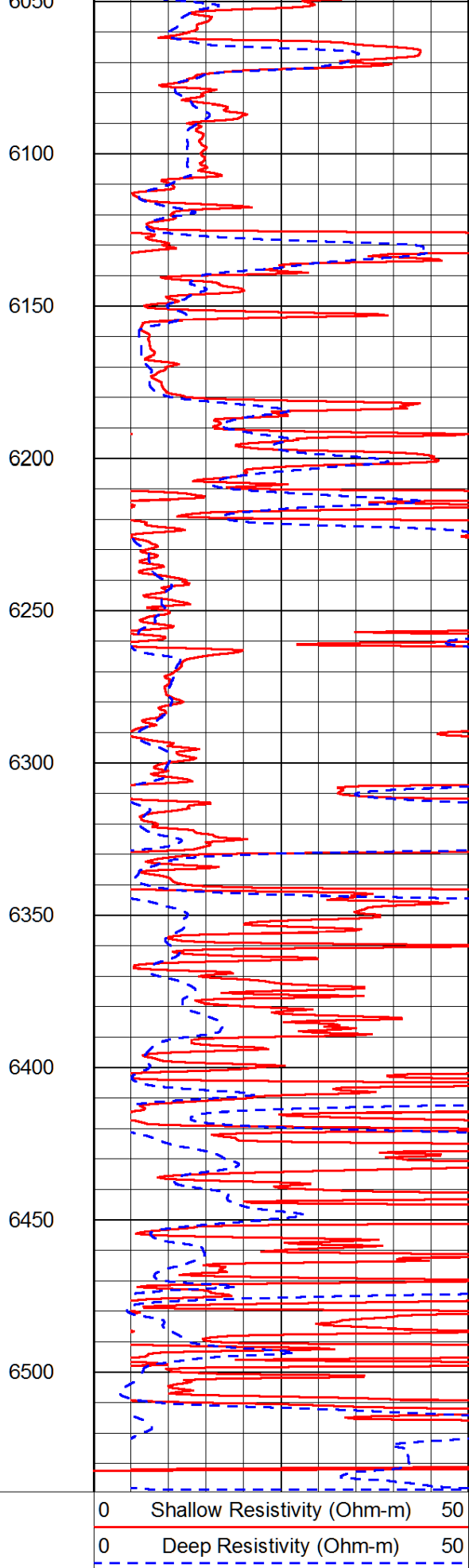
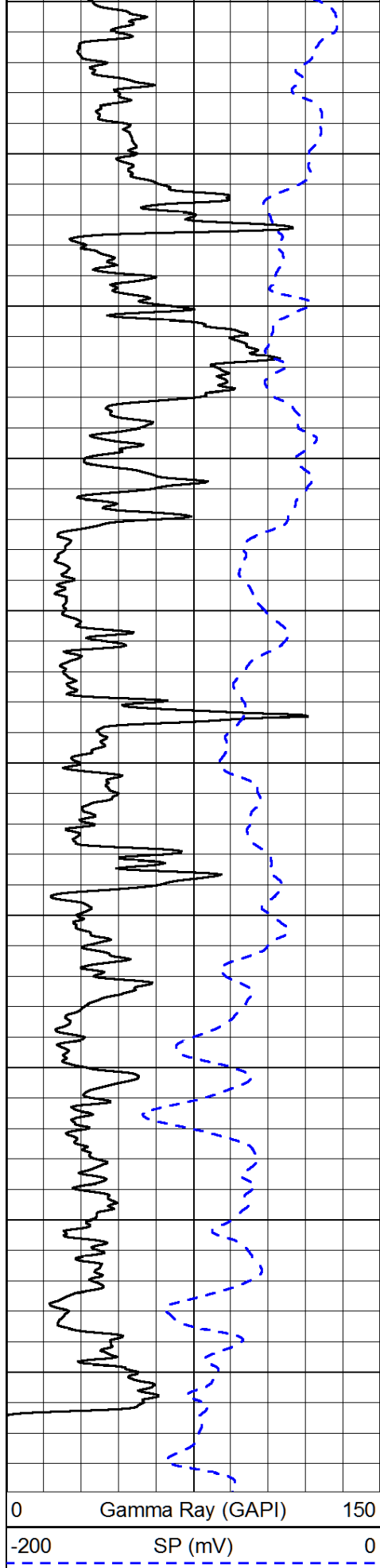






5300
5550
5600
5650
5700
5750
5800
5850
5900
5950
6000
6050





Shallow Resistivity

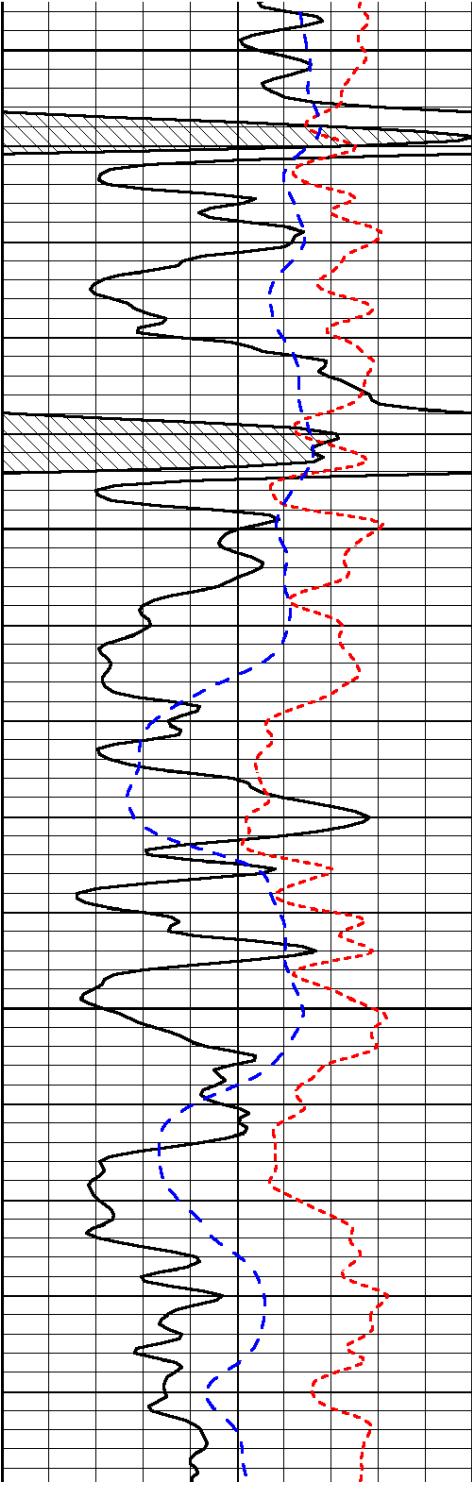
50	(Ohm-m)	500
50	Deep Resistivity (Ohm-m)	500

Database File:	palmer_hd.db
Dataset Pathname:	dil/palmain
Presentation Format:	dil
Dataset Creation:	Sun Sep 15 10:43:18 2013
Charted by:	Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
-160	RXO/RT	40
-200	SP (mV)	0

0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000
10000	Line Tension (lb)	0

LSPD
(ft/min)

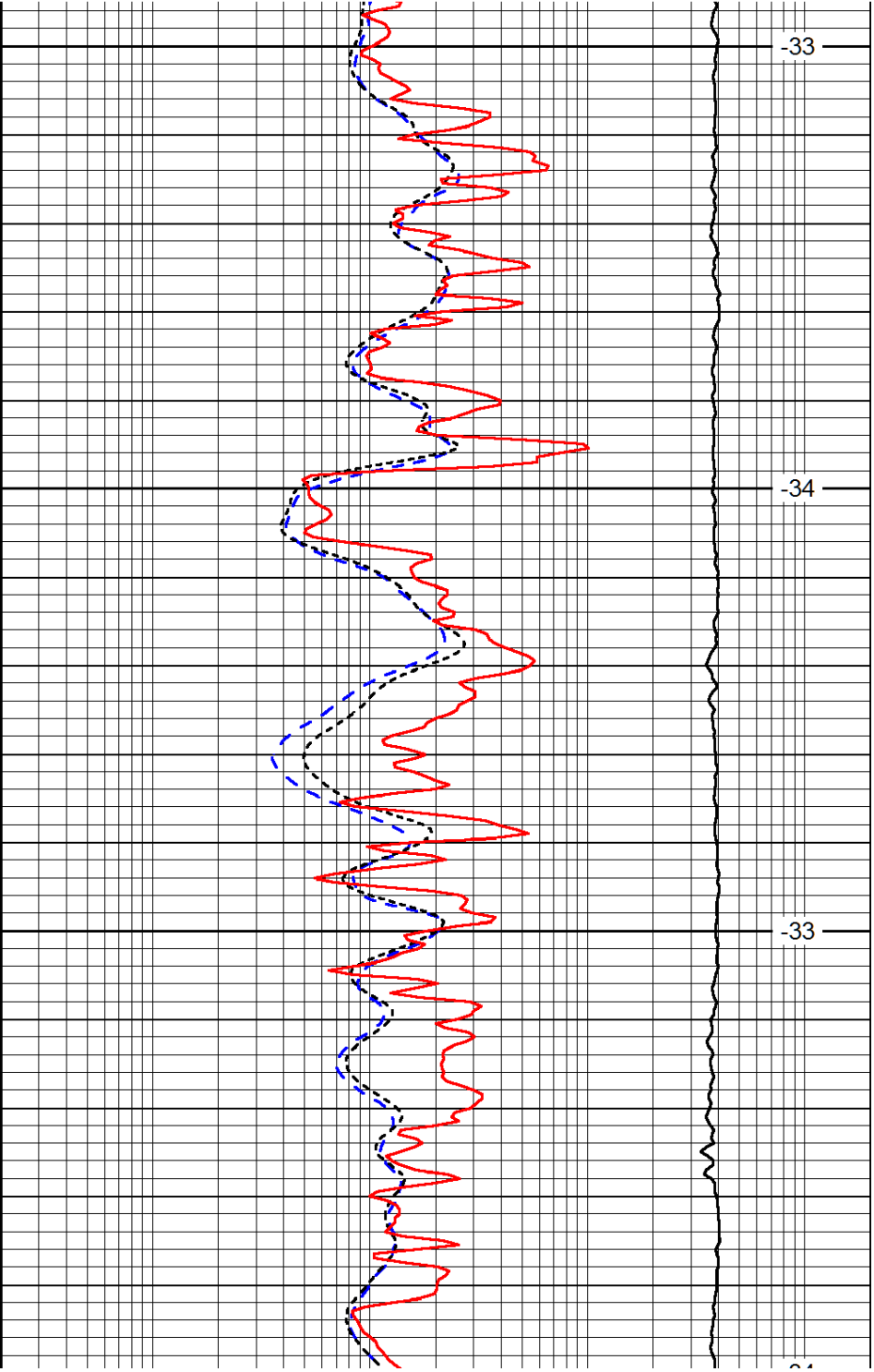


4100

4150

4200

4250

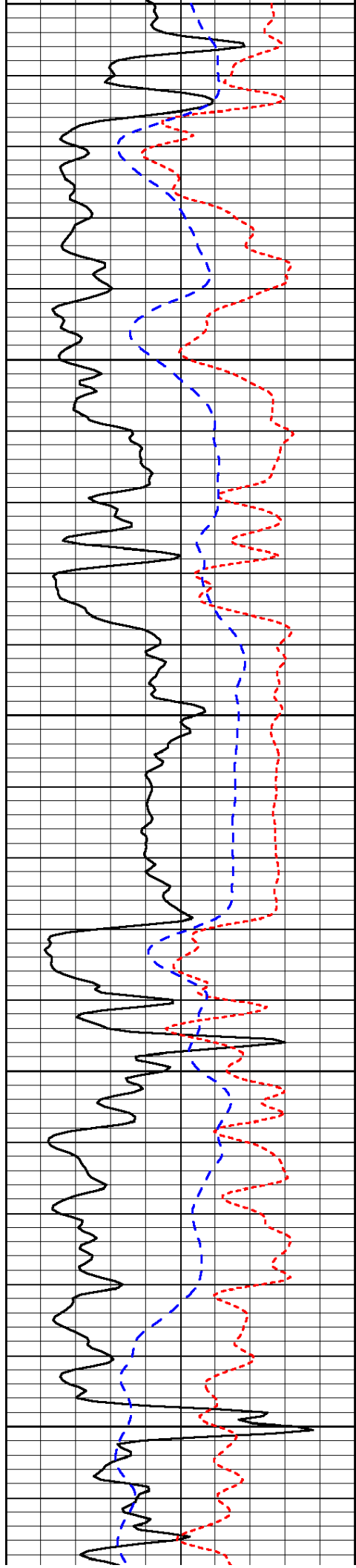


-33

-34

-33

-34



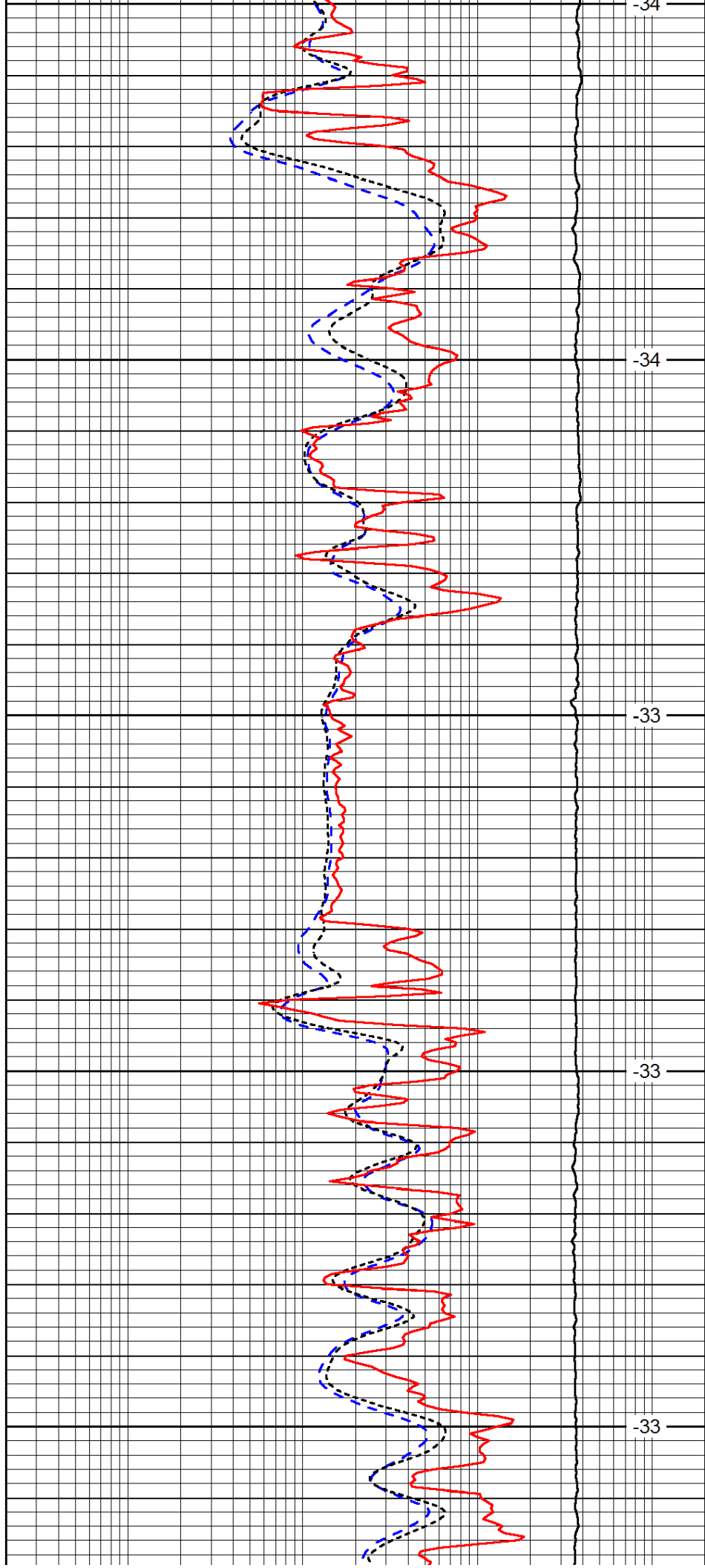
4250

4300

4350

4400

4450



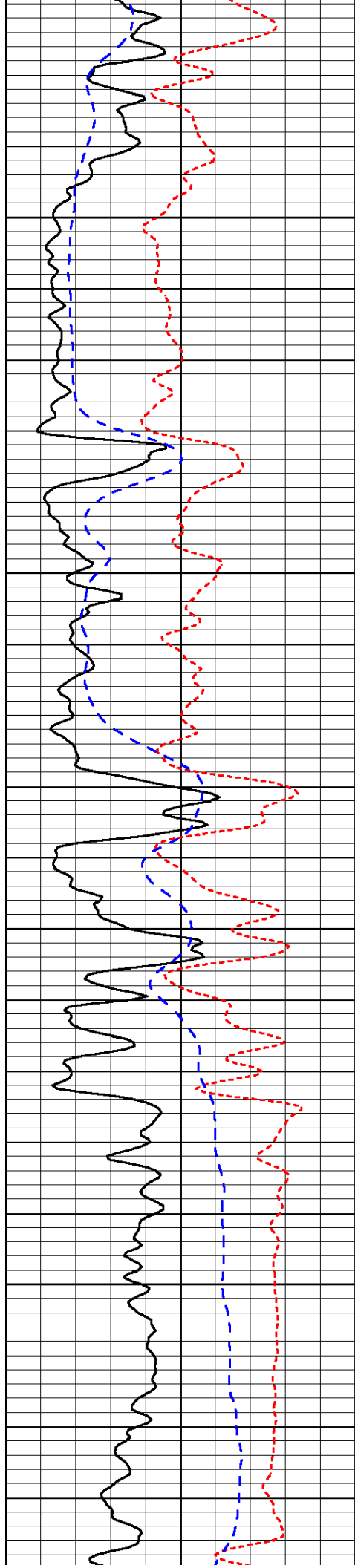
-34

-34

-33

-33

-33

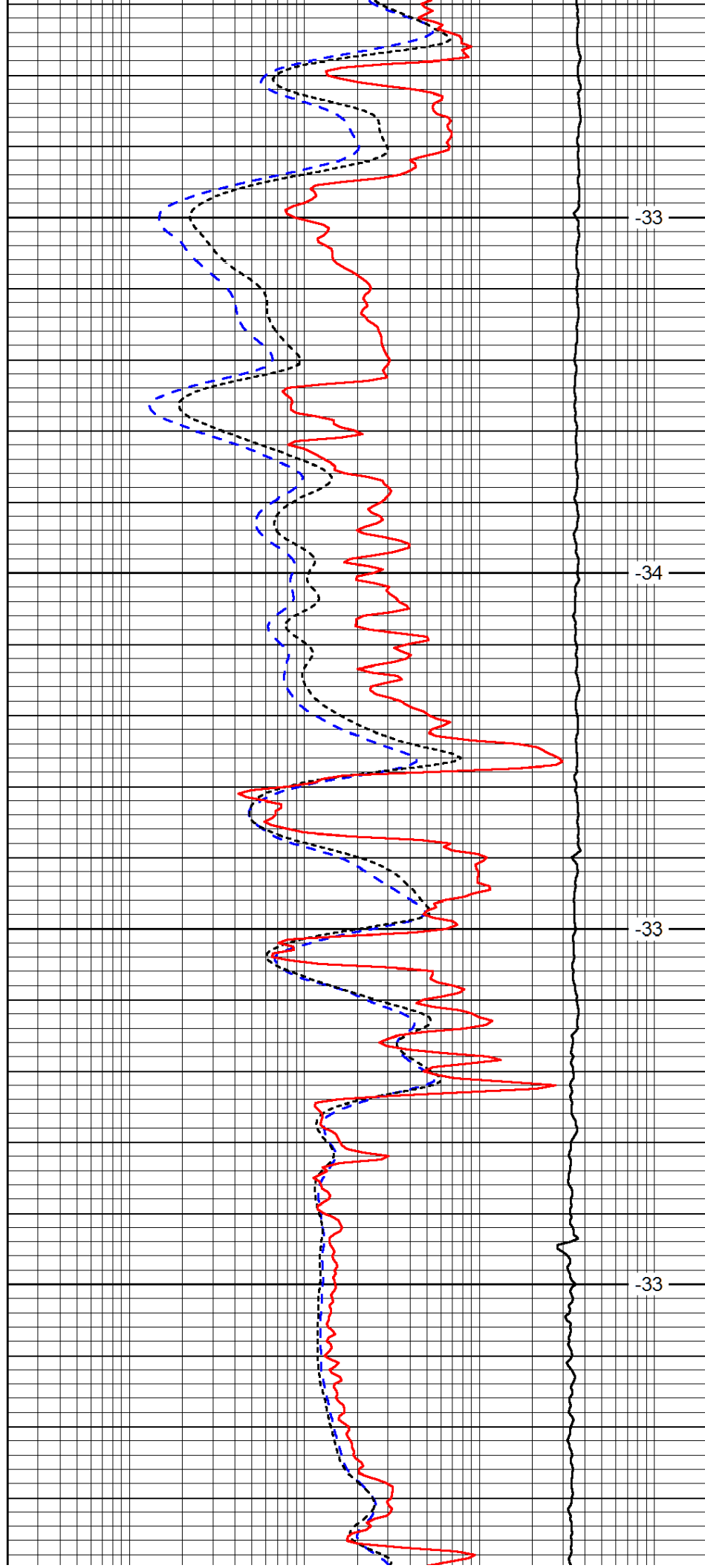


4500

4550

4600

4650

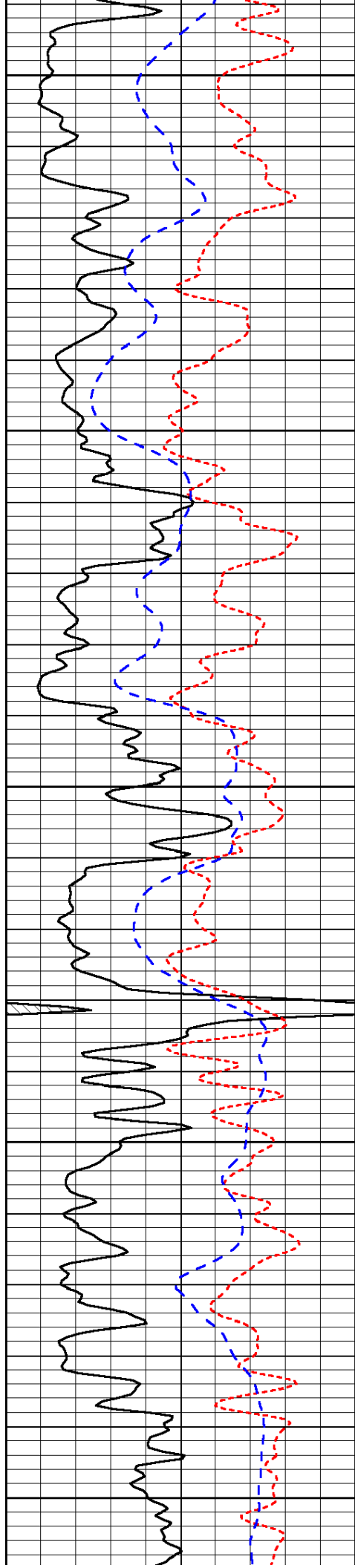


-33

-34

-33

-33



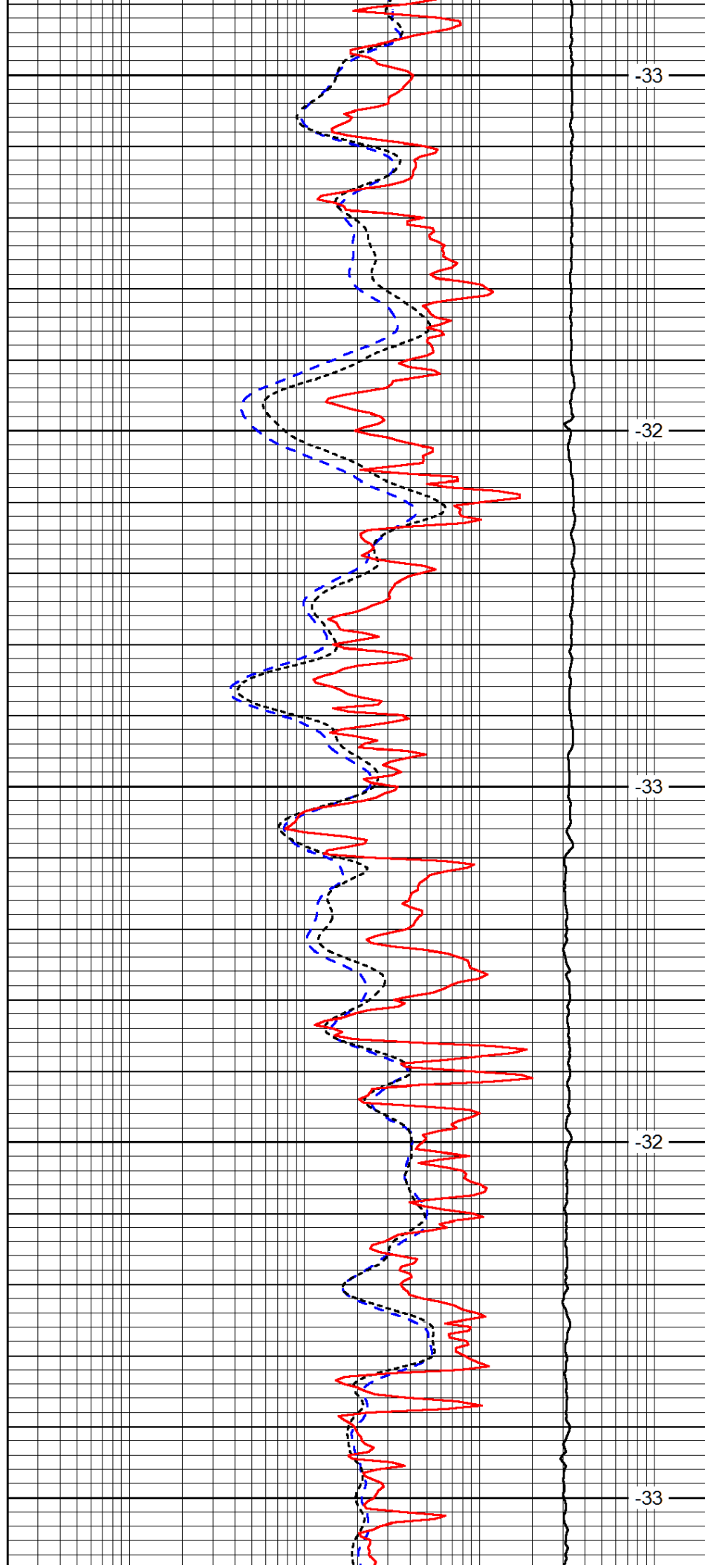
4700

4750

4800

4850

4900



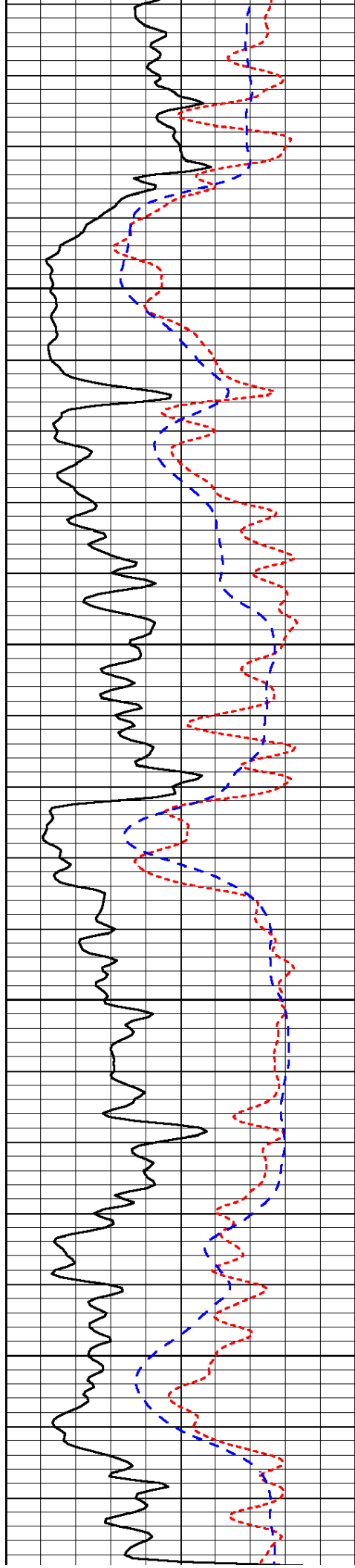
-33

-32

-33

-32

-33

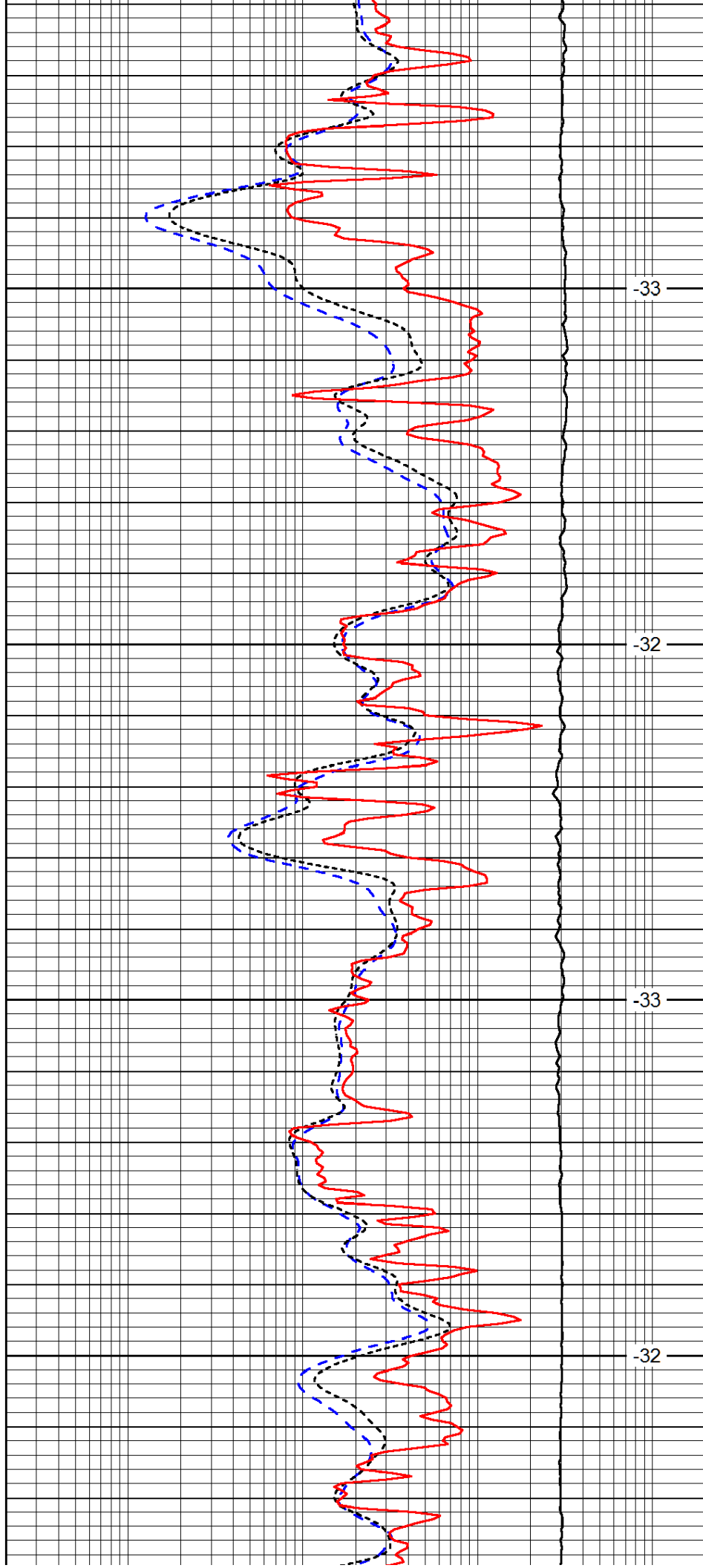


4950

5000

5050

5100

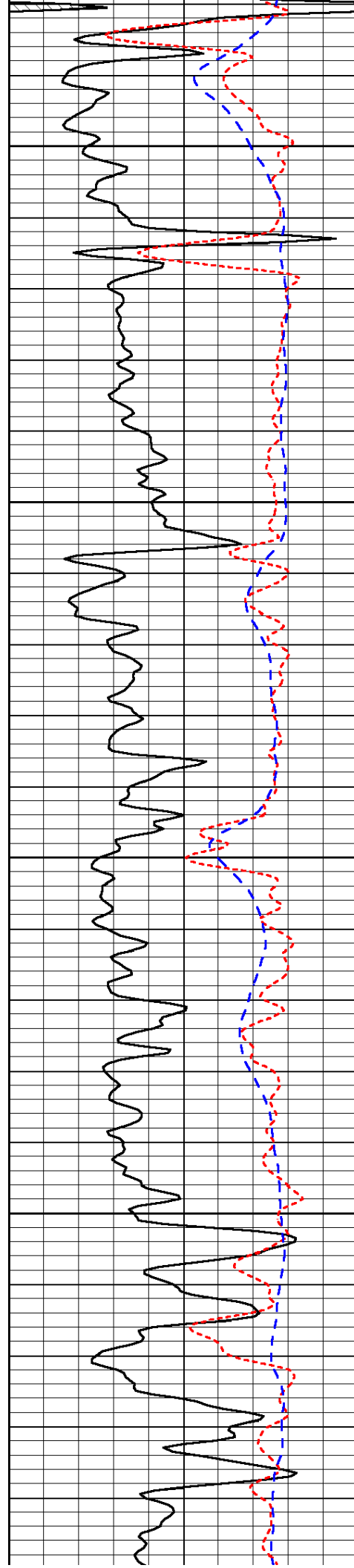


-33

-32

-33

-32



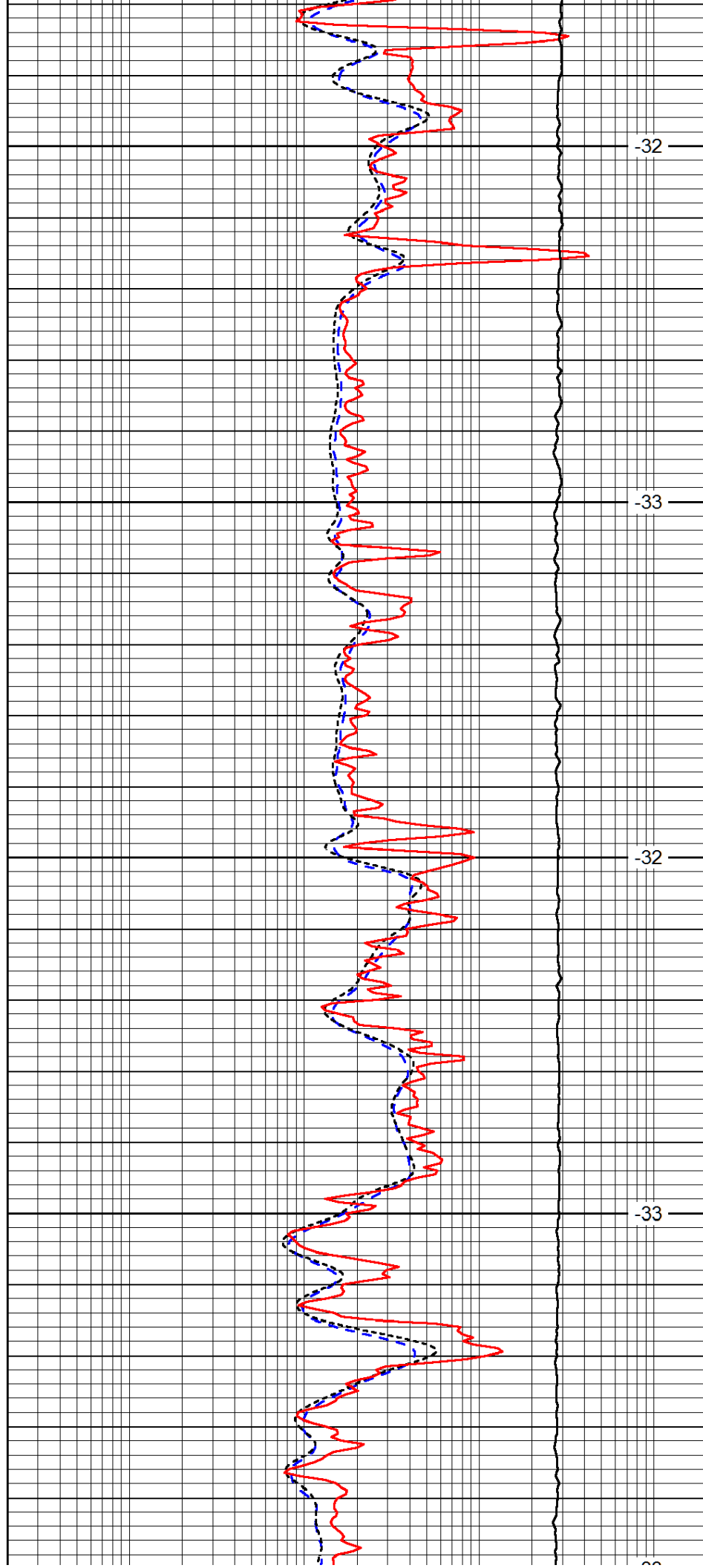
5150

5200

5250

5300

5350



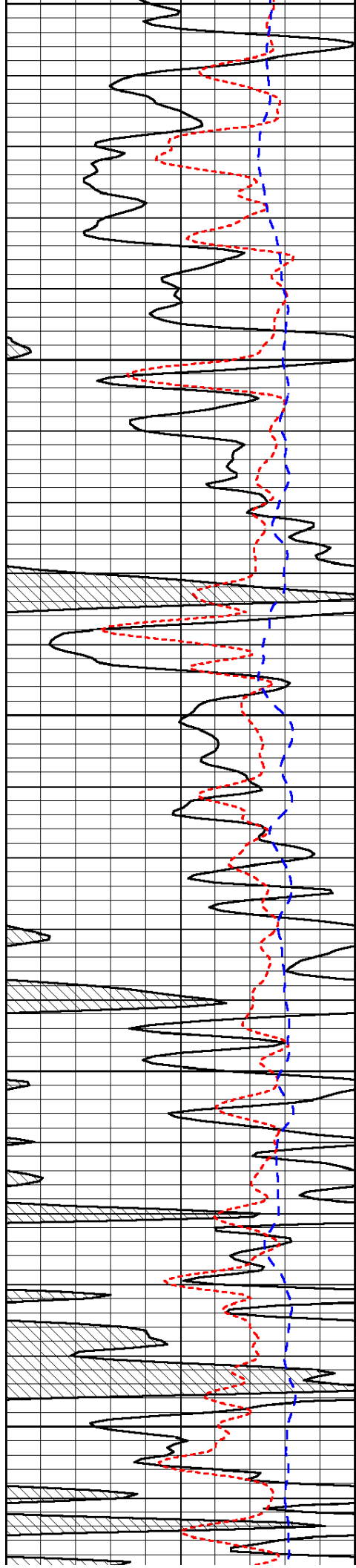
-32

-33

-32

-33

-32



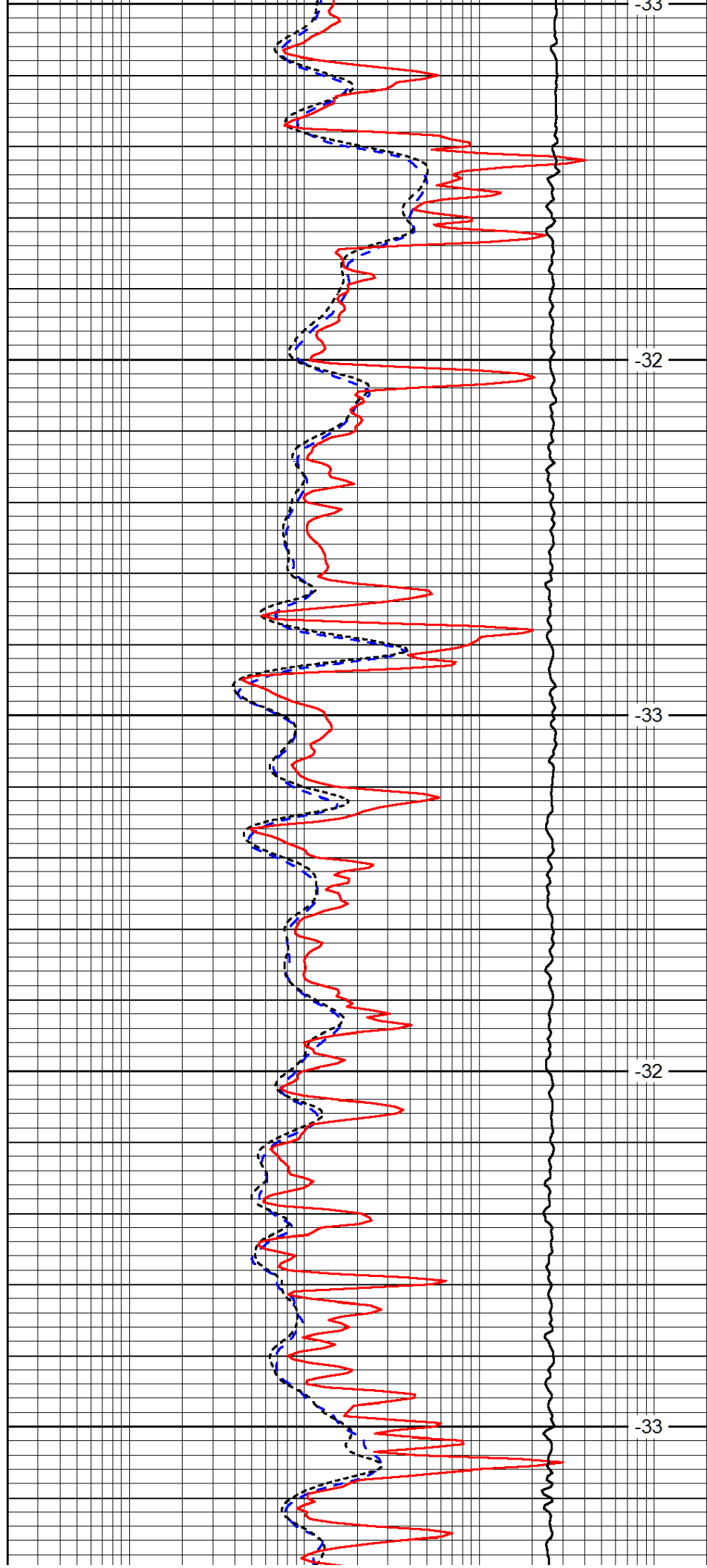
5350

5400

5450

5500

5550



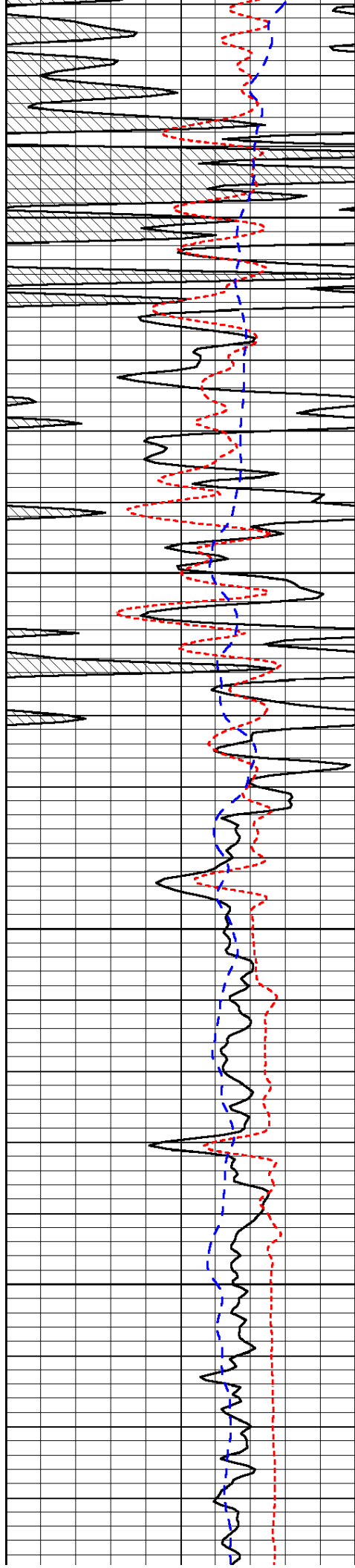
-33

-32

-33

-32

-33

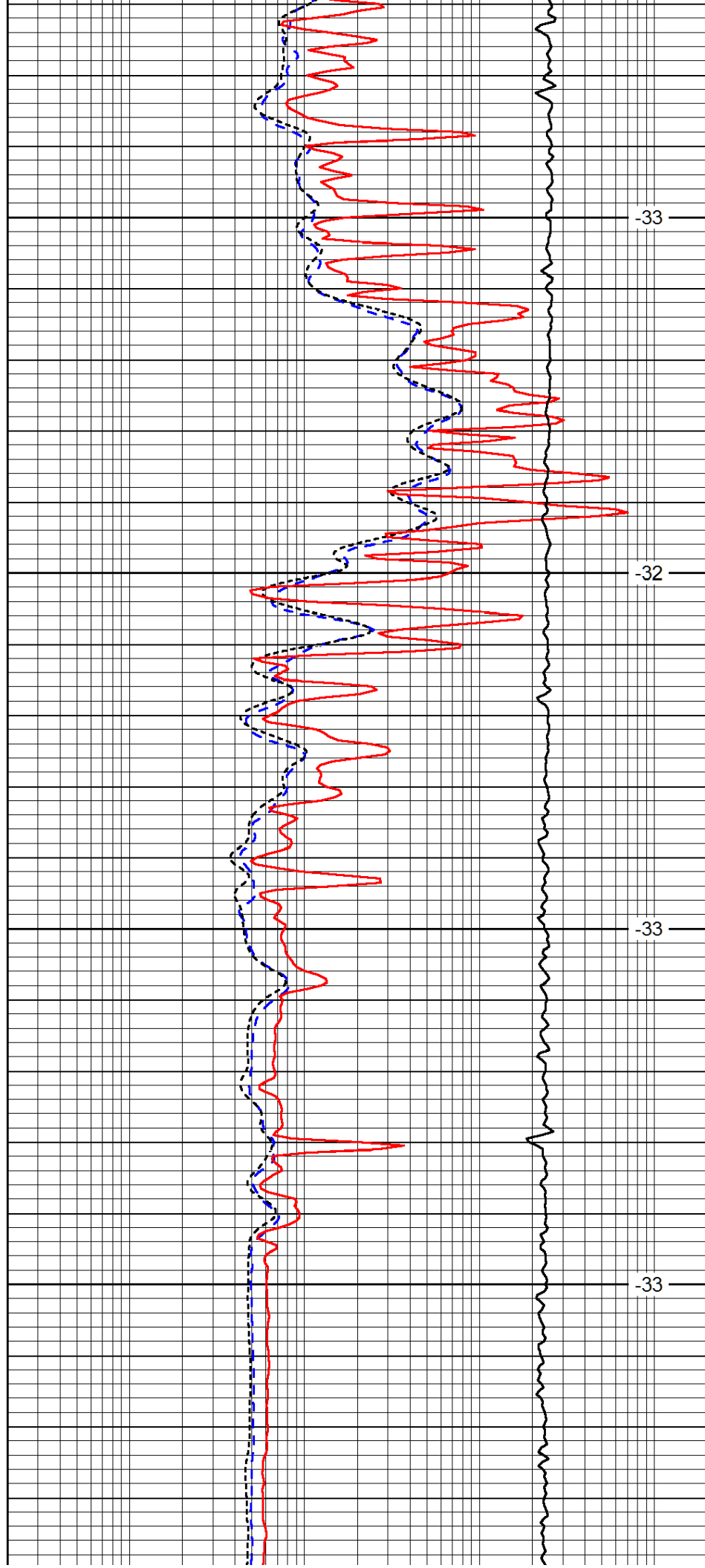


5600

5650

5700

5750

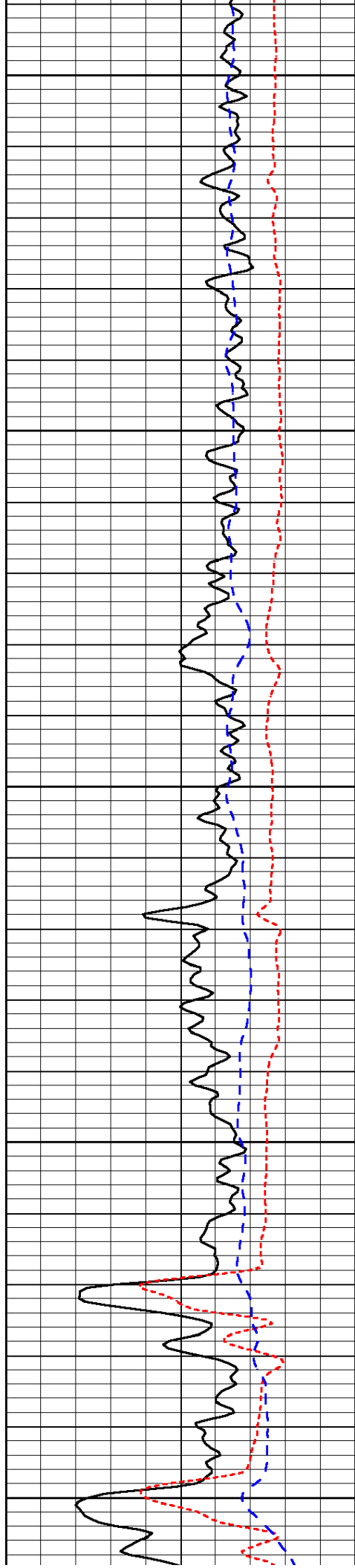


-33

-32

-33

-33



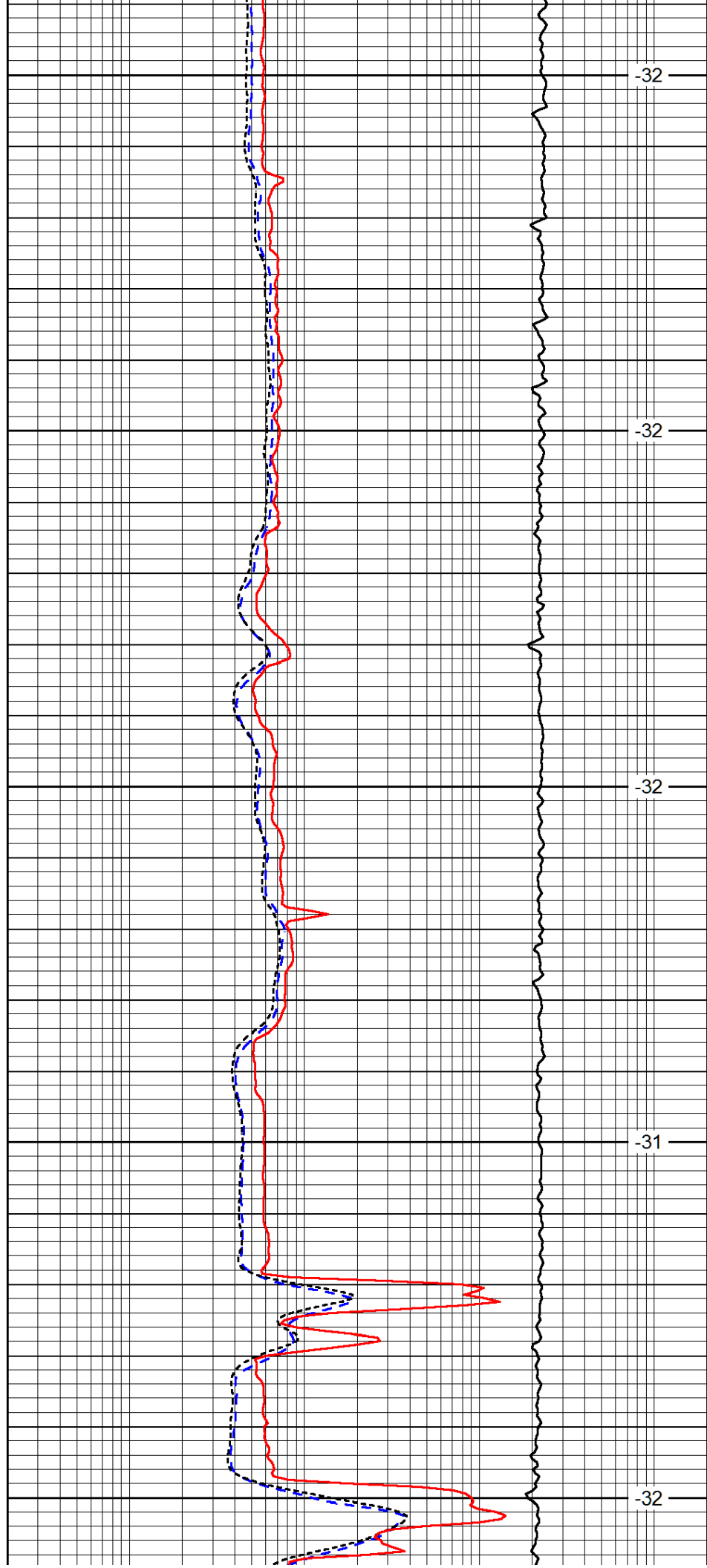
5800

5850

5900

5950

6000



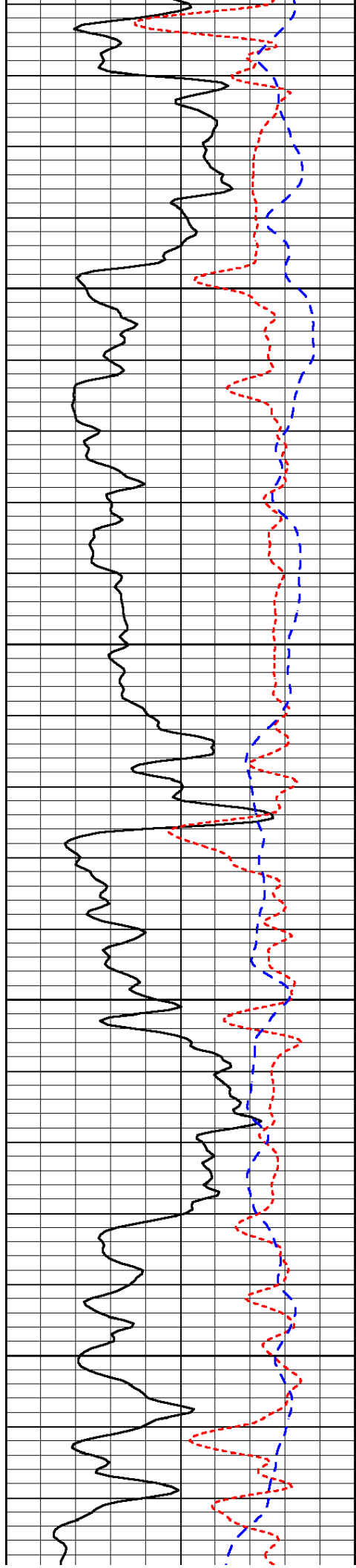
-32

-32

-32

-31

-32

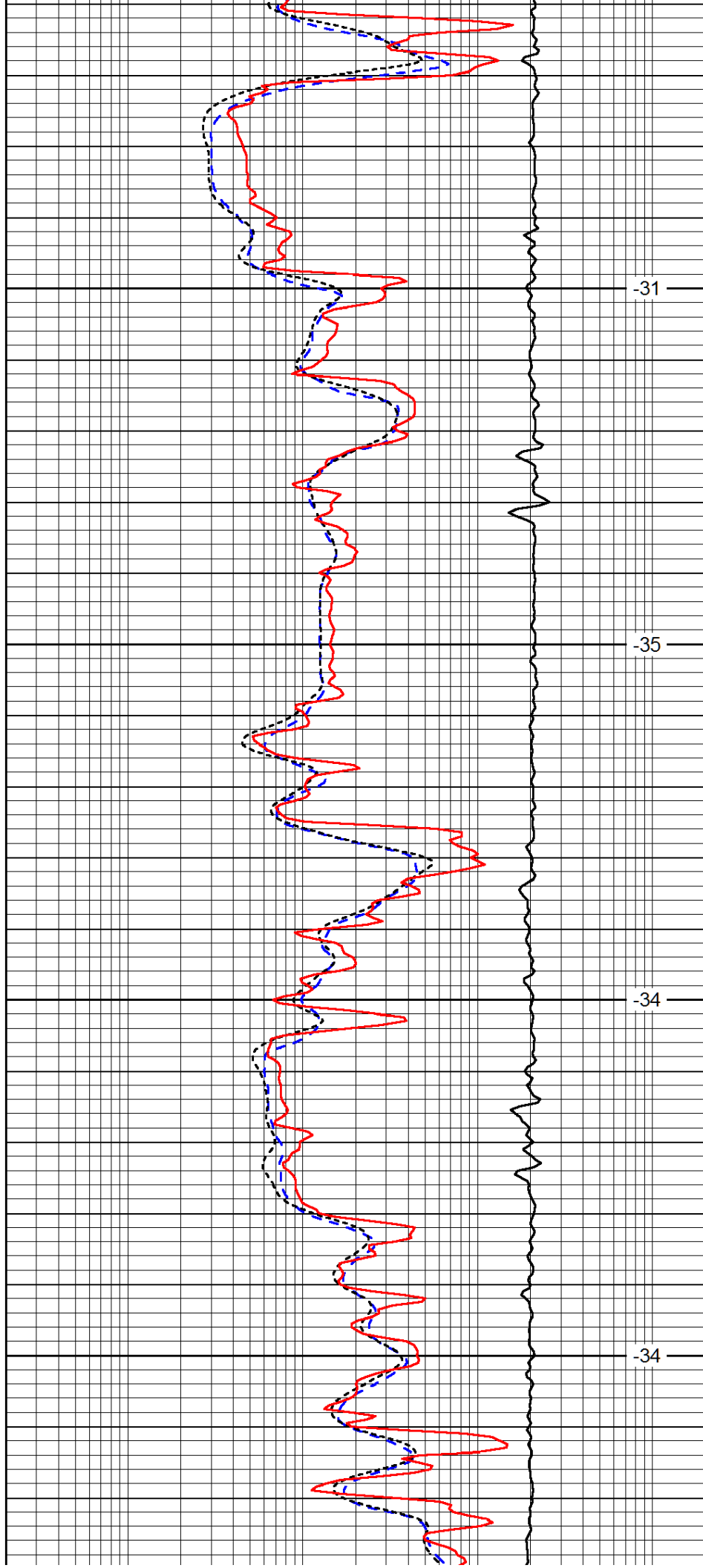


6050

6100

6150

6200

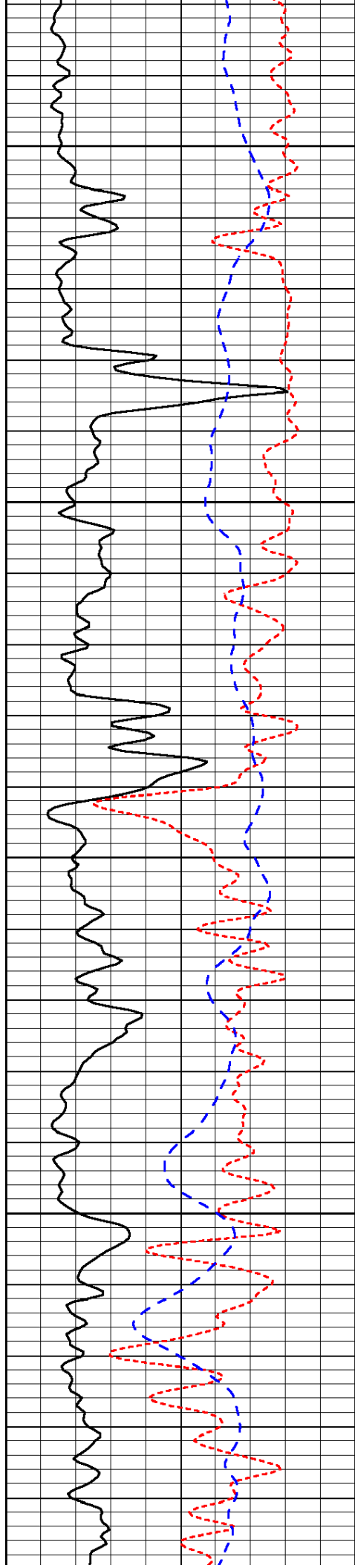


-31

-35

-34

-34



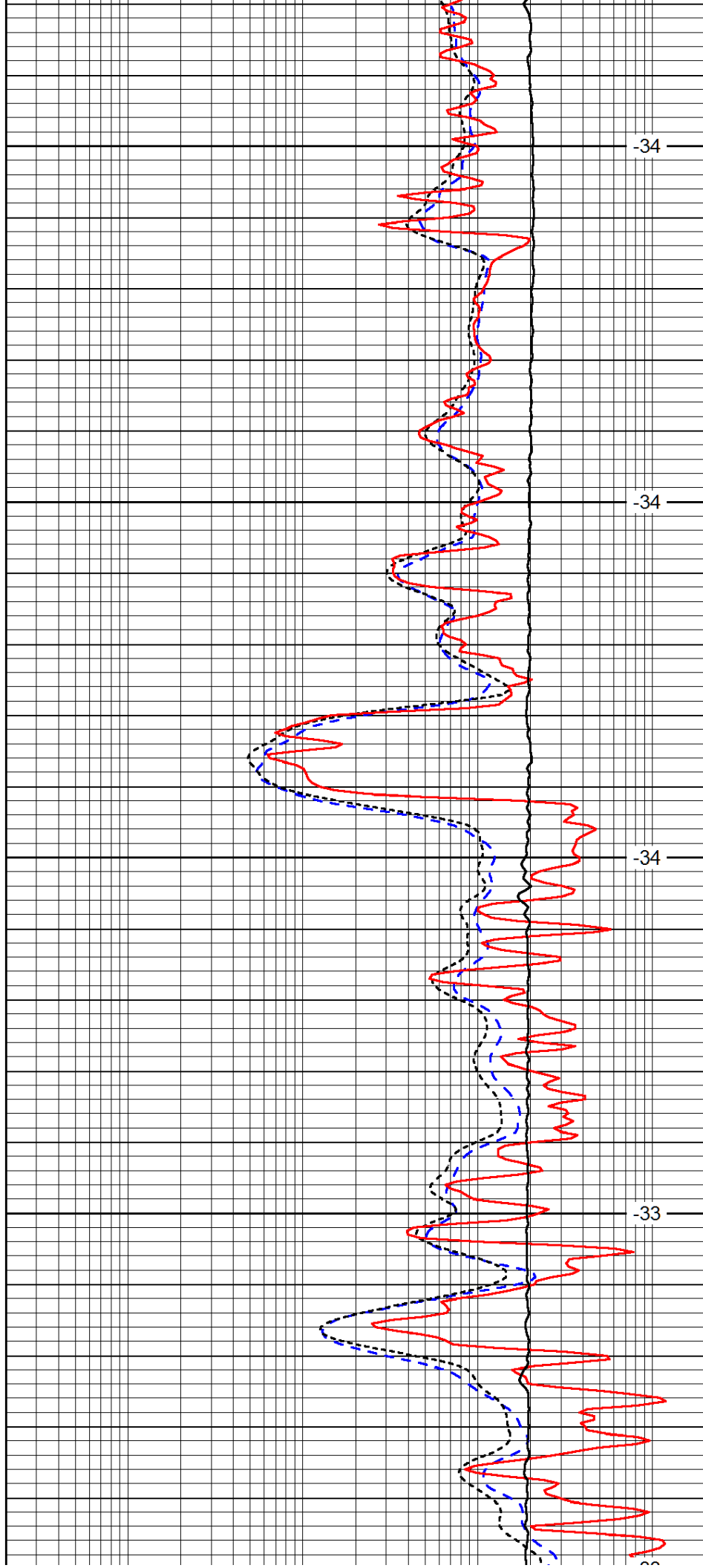
6250

6300

6350

6400

6450



-34

-34

-34

-33

-33

