



Pioneer Energy Services

Borehole Compensated Sonic Log

API No.

15-069-20,424-00-00

Company **Falcon Exploration, Inc.**

Well **James Koehn #2-31 (NW)**

Field

County **Gray**

State **Kansas**

Location

SE SE SE NW 1/4
2,540' FNL & 2,540' FWL

Other Services
CNL/CDL
MEL/DIL

Sec: 31

Twp: 28S

Rge: 30W

Elevation

Permanent Datum

Ground Level

Elevation 2820

K.B. 2833
D.F.
G.L. 2820

Log Measured From

Kelly Bushing

13 Ft. Above Perm. Datum

Date

1/12/2013

Run Number

Two

Type Log

BHC Sonic

Depth Driller

5470

Depth Logger

5473

Bottom Logged Interval

5462

Top Logged Interval

1850

Type Fluid In Hole

Chemical

Salinity, PPM CL

4000

Density

9.3

Level

Full

Max. Rec. Temp. F

131

Operating Rig Time

6 Hours

Equipment -- Location

108 Hays

Recorded By

J. Long

Witnessed By

Dave Williams

Borehole Record

Casing Record

Run No.

Bit

From

To

Size

Wgt.

From

To

1

12.25

00

1870

8.625

24#

00

1870

2

7.875

1875

5470

<<< 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.

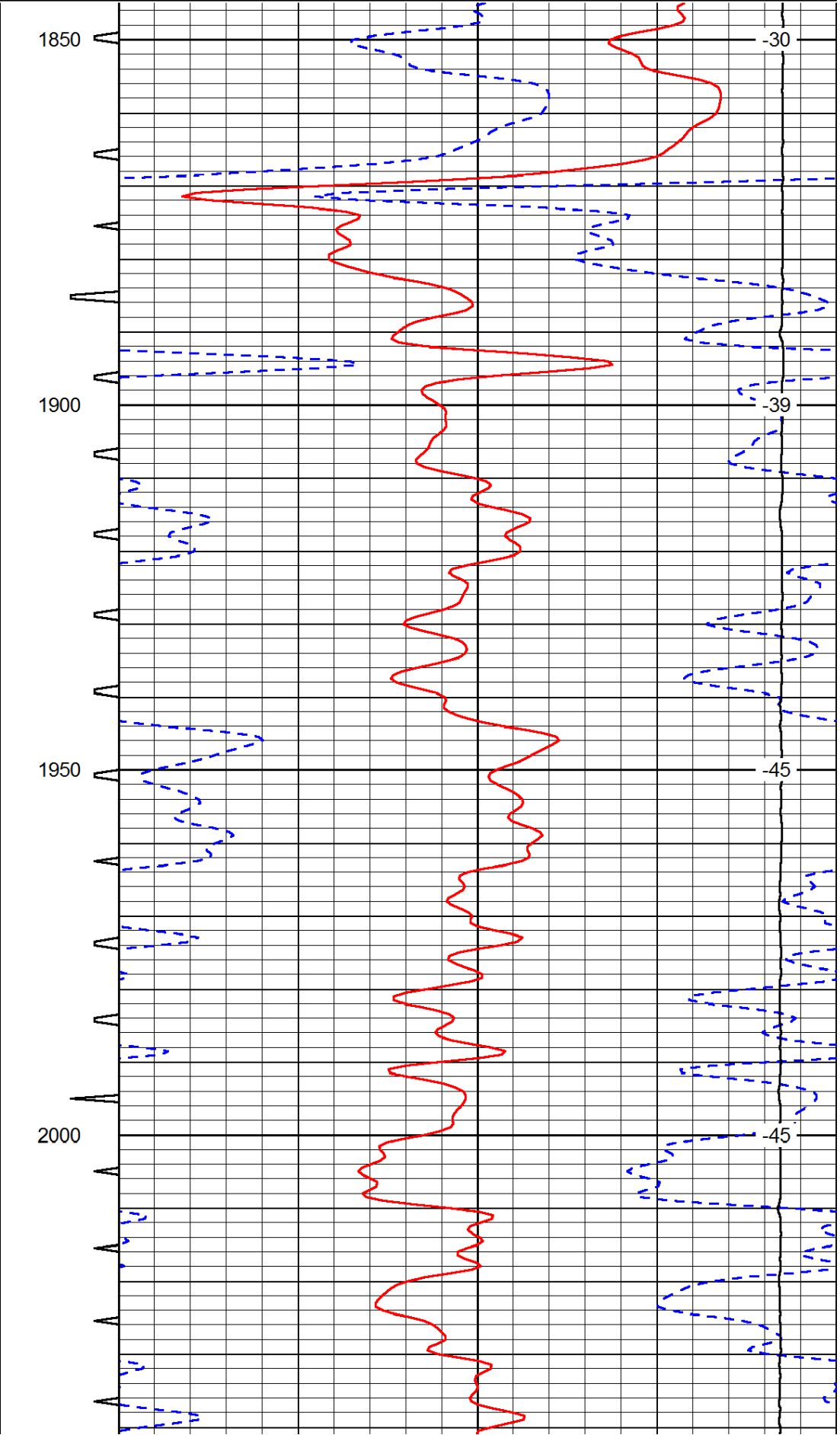
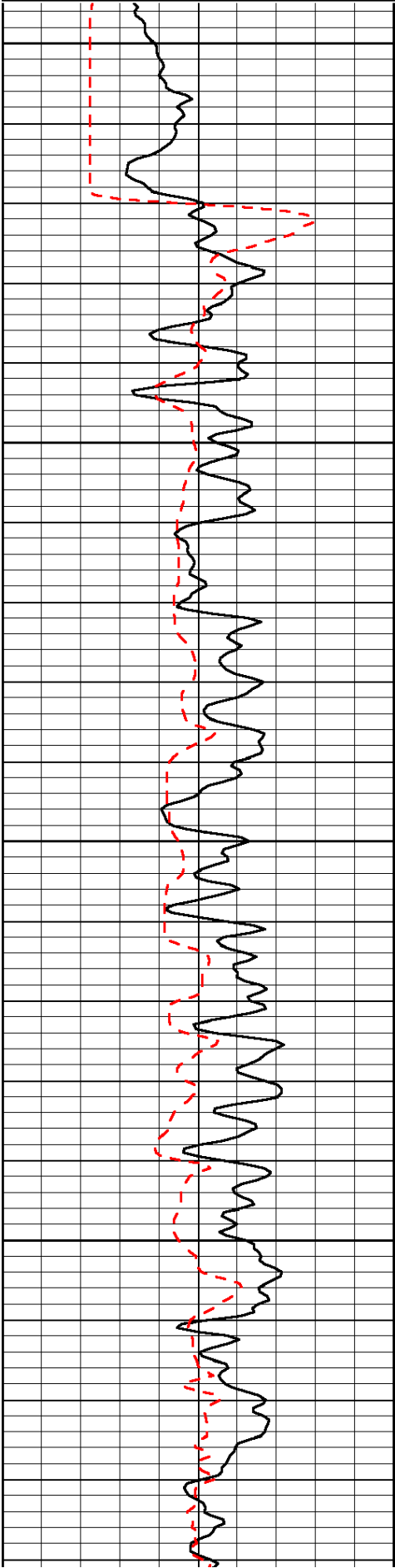
Comments

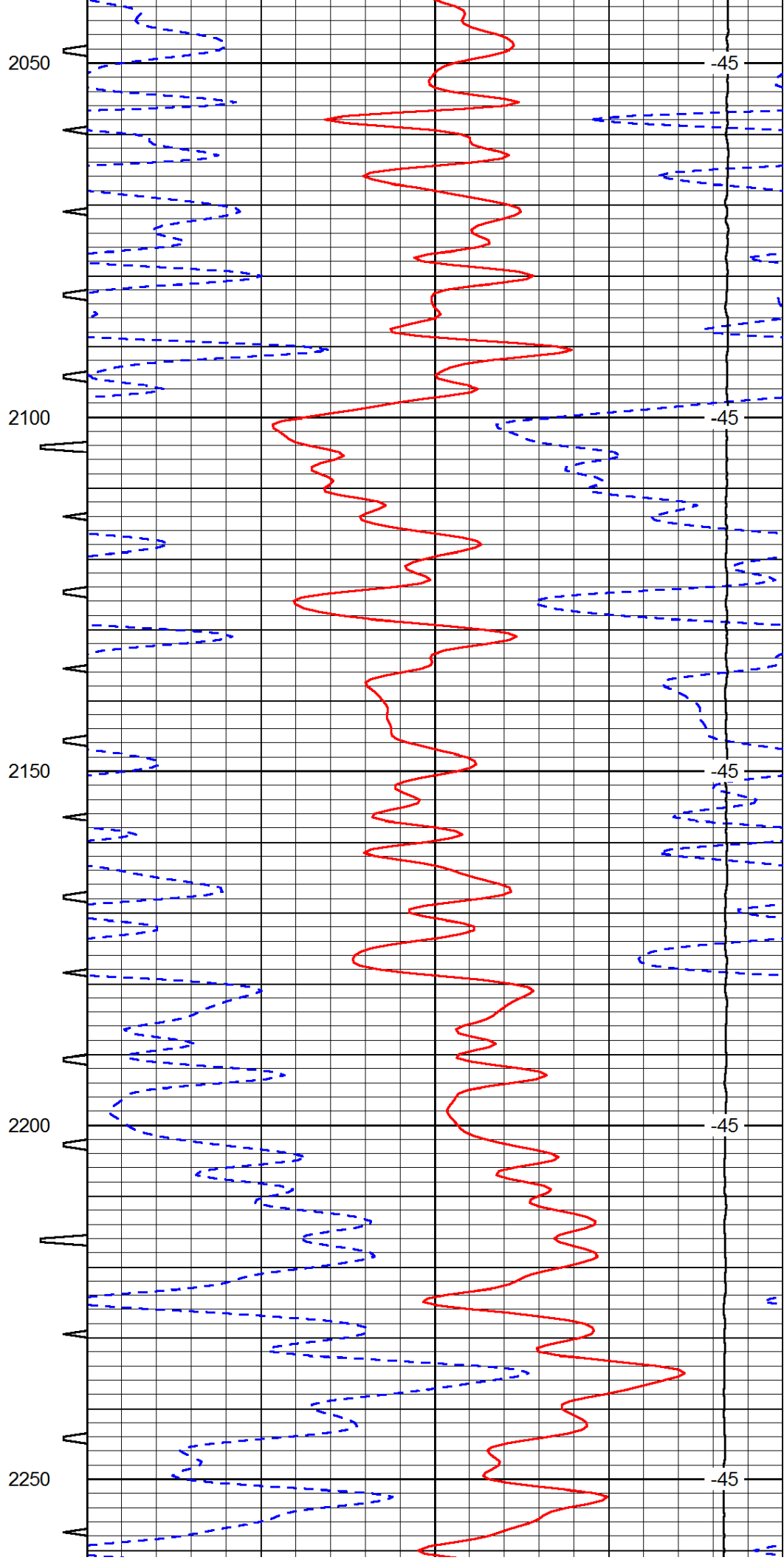
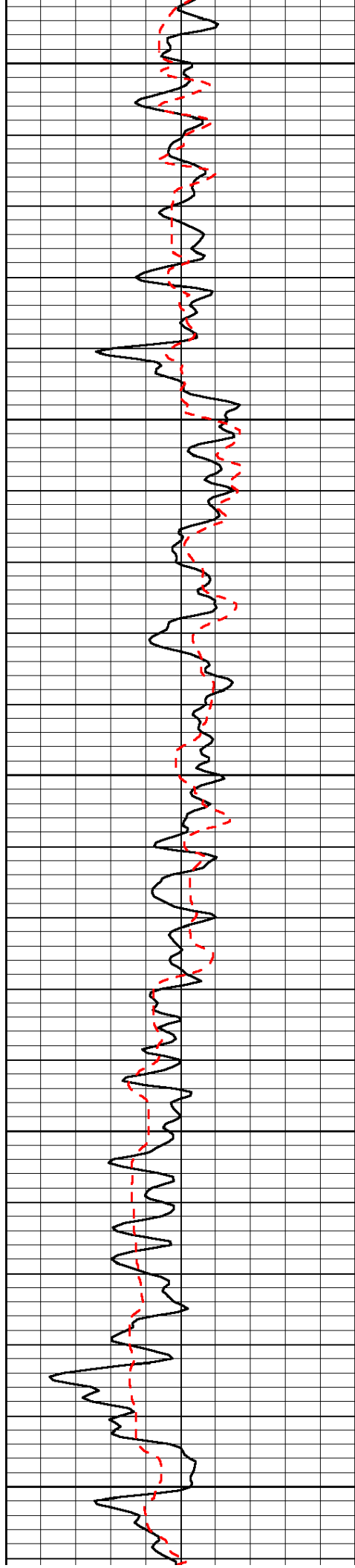
Thank you for using Pioneer Energy Services
www.pioneerres.com
785 625 3858

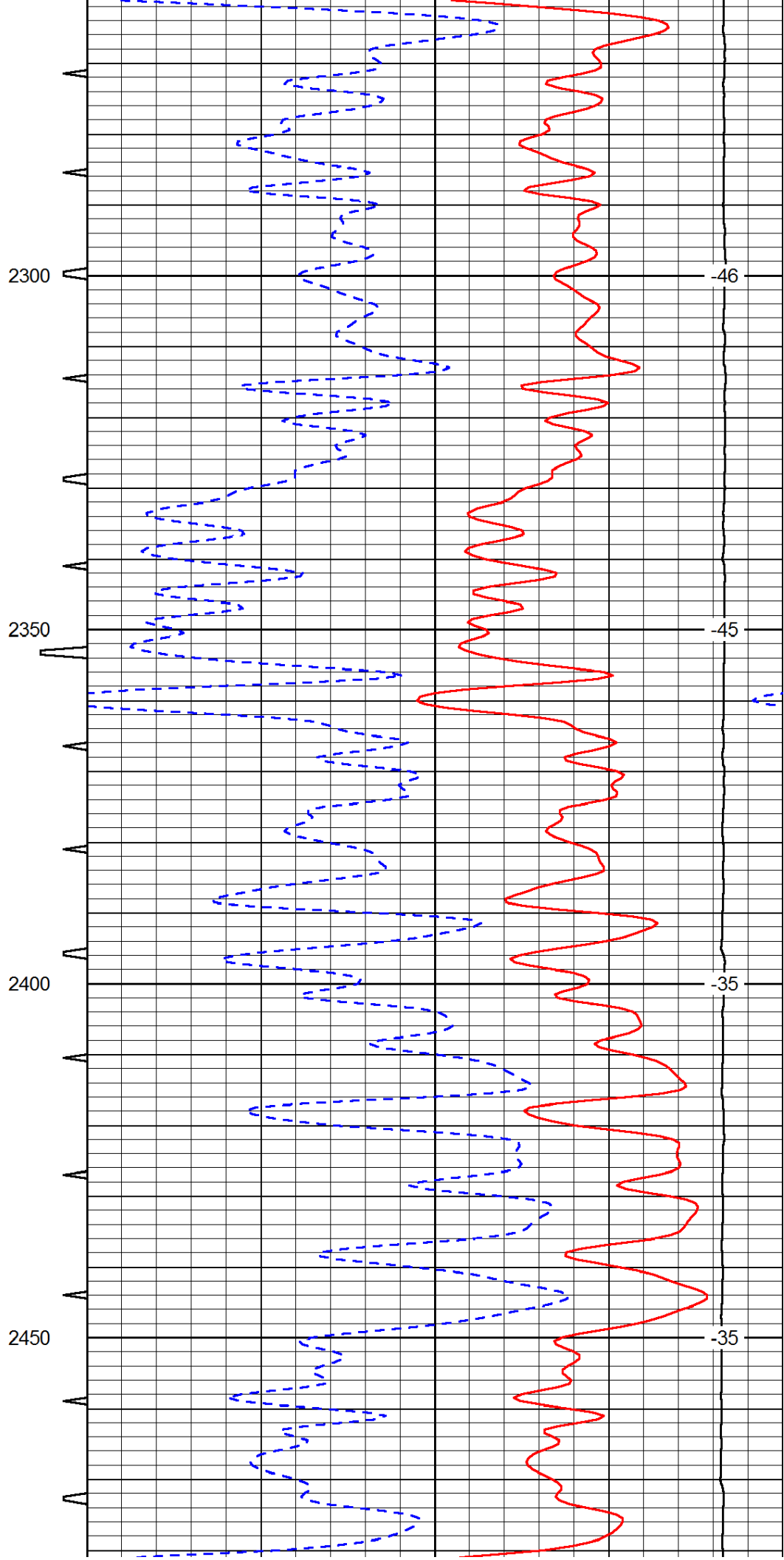
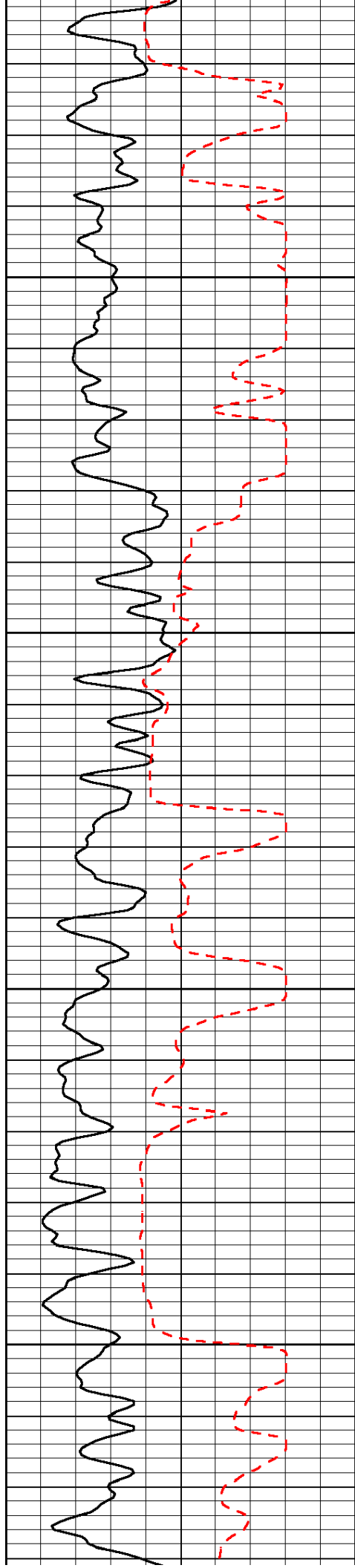
Copeland, North to 144 Highway, 1/2 West, North Into

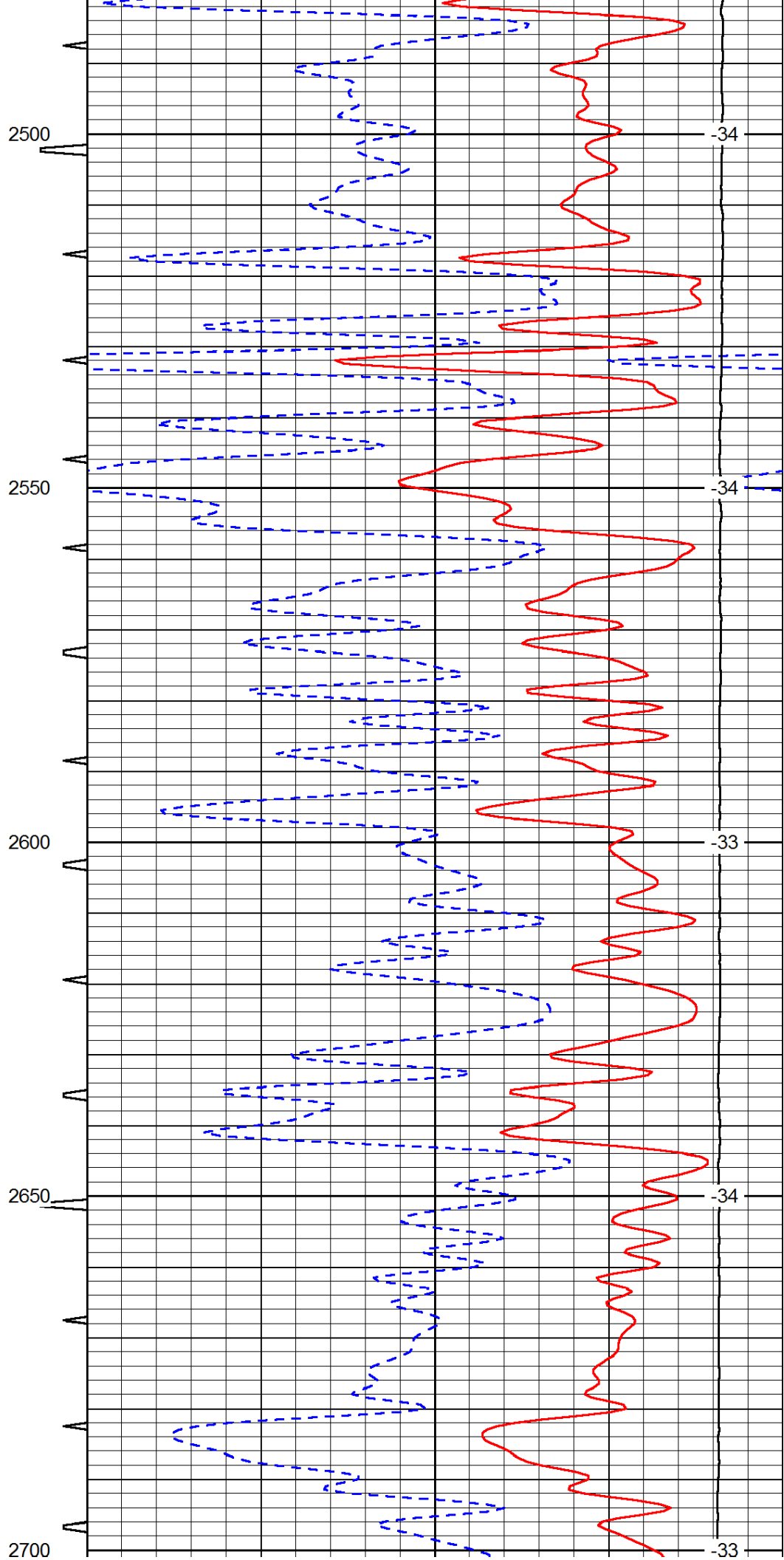
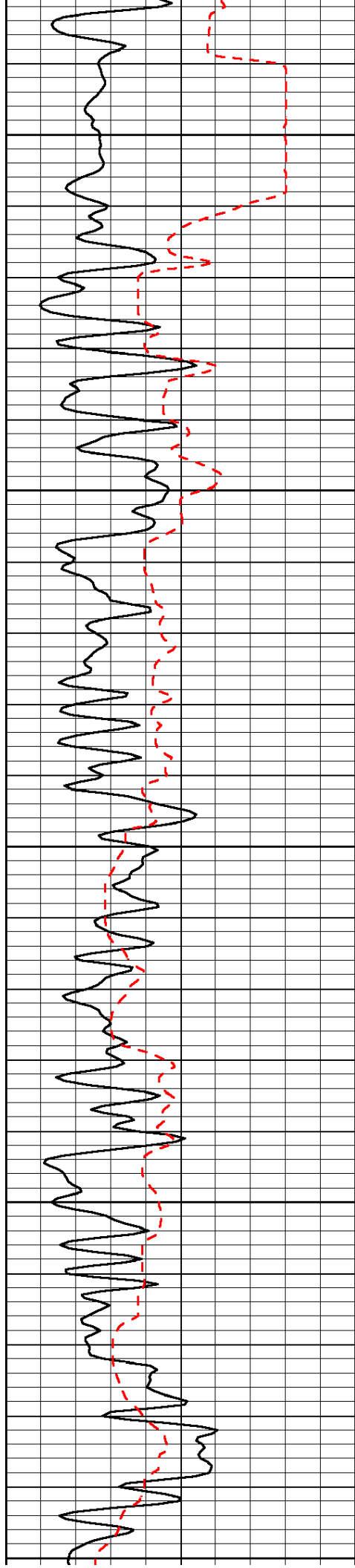
Database File: c:\warrior\data\falcon_james koehn #2-31 (nw)\falcon_jameskoehn_2-31nw.hd.db
Dataset Pathname: dil/falcstck
Presentation Format: sonic
Dataset Creation: Sat Jan 12 12:36:08 2013
Charted by: Depth in Feet scaled 1:240

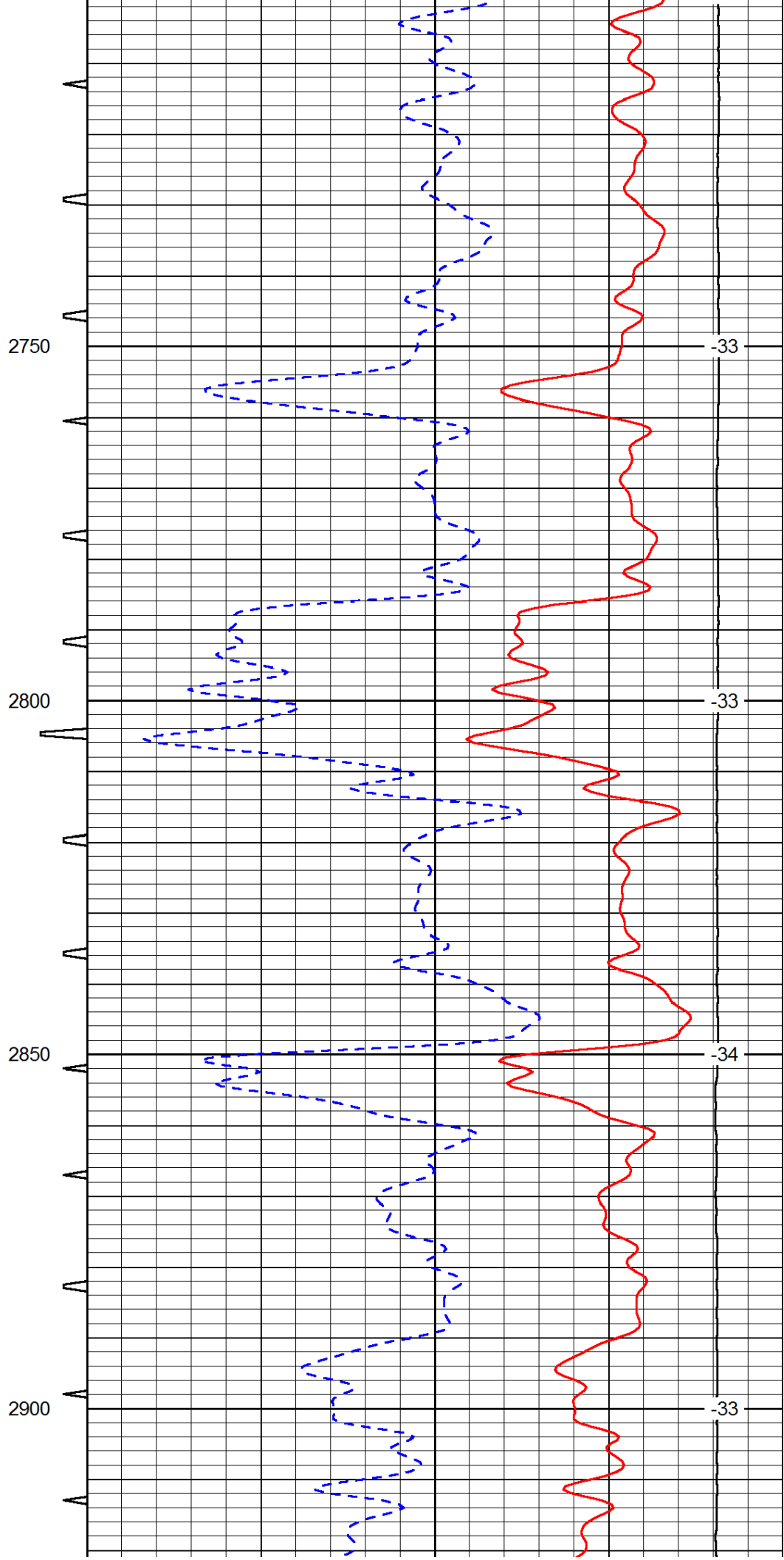
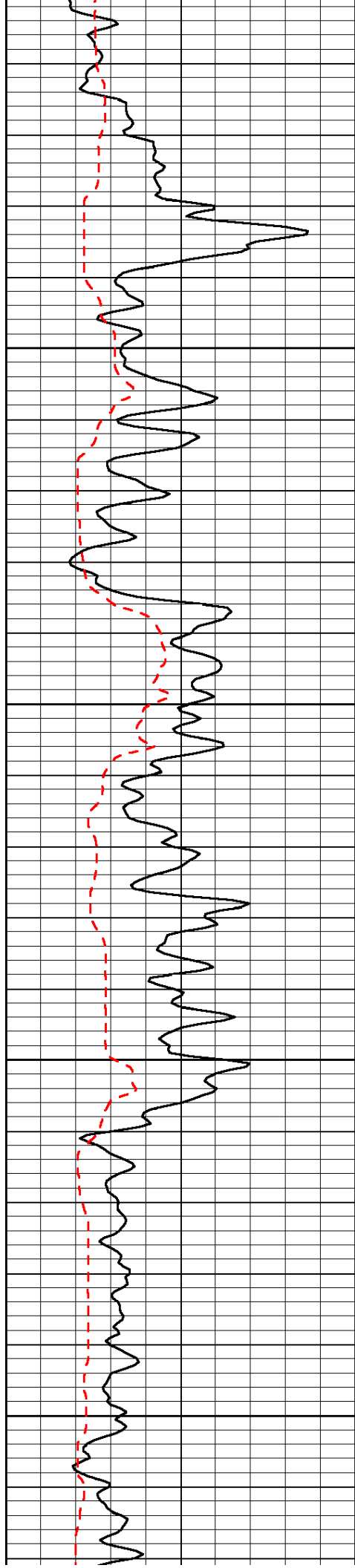
Charted by:			Depth in Feet scaled 1:2.16			
0	Gamma Ray	150	Sonic Int	140	Delta Time (usec/ft)	40
150	Gamma Ray	300		30	SPOR	-10
6	Caliper (GAPI)	16		15000	LTEN (lb)	0
					LSPD	

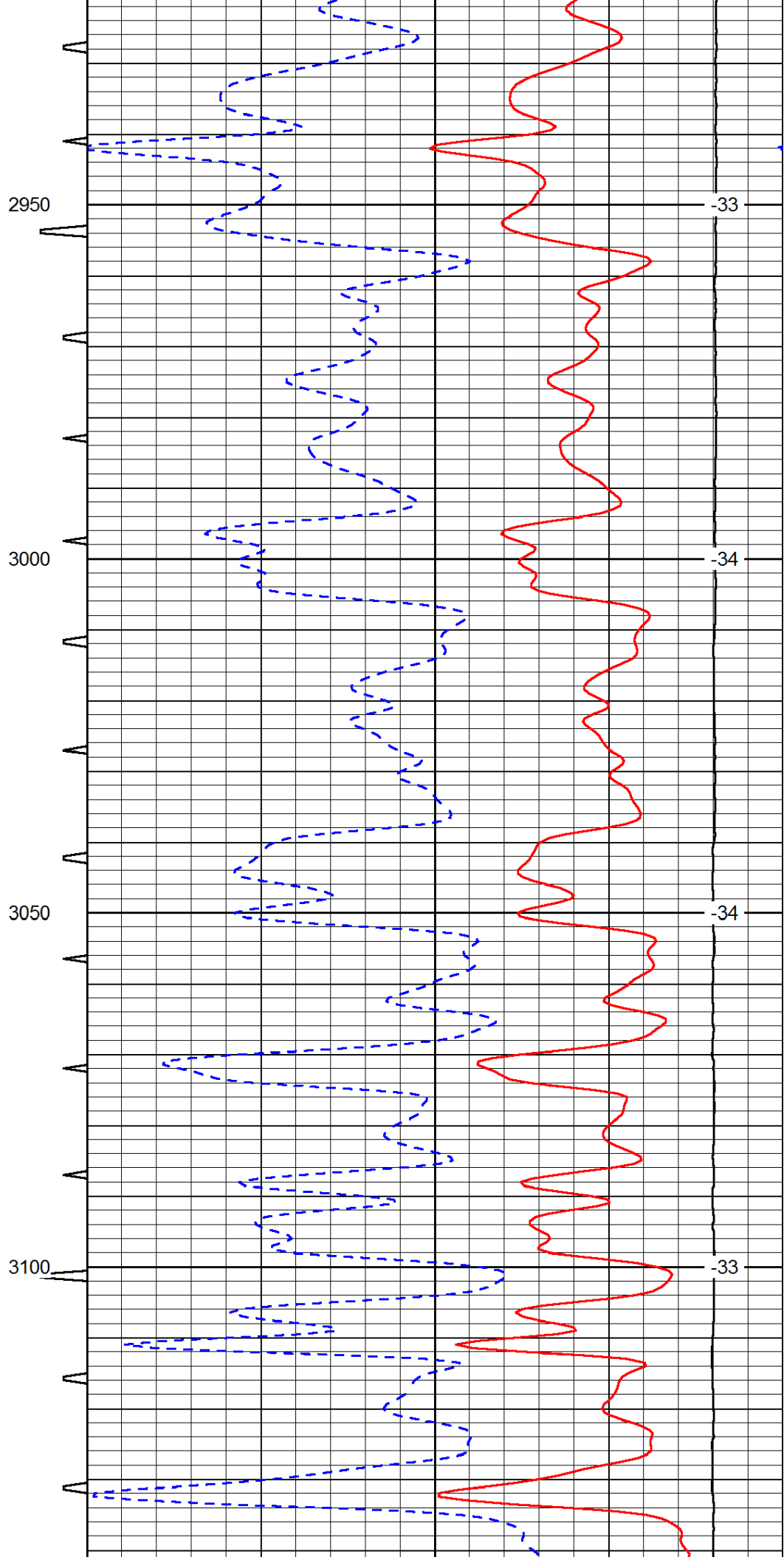
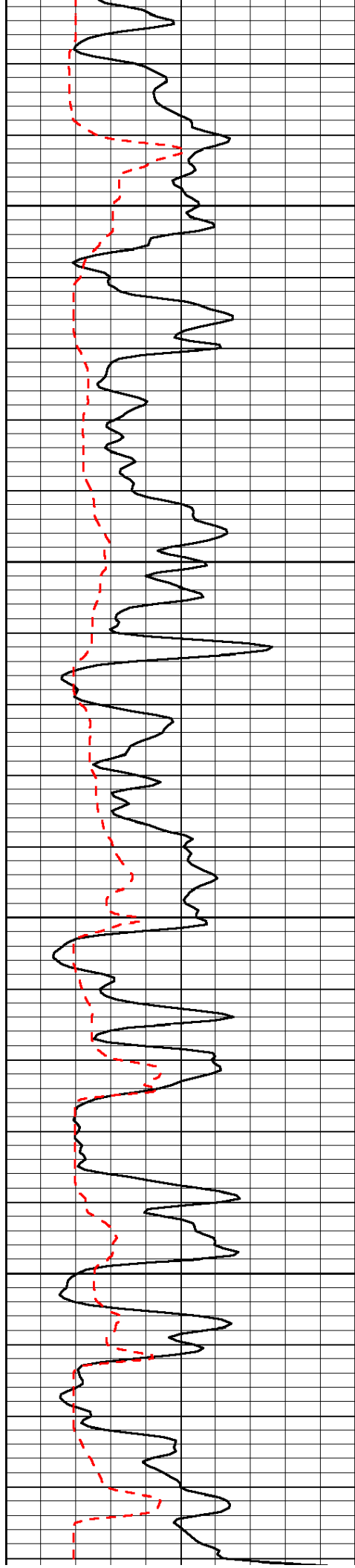


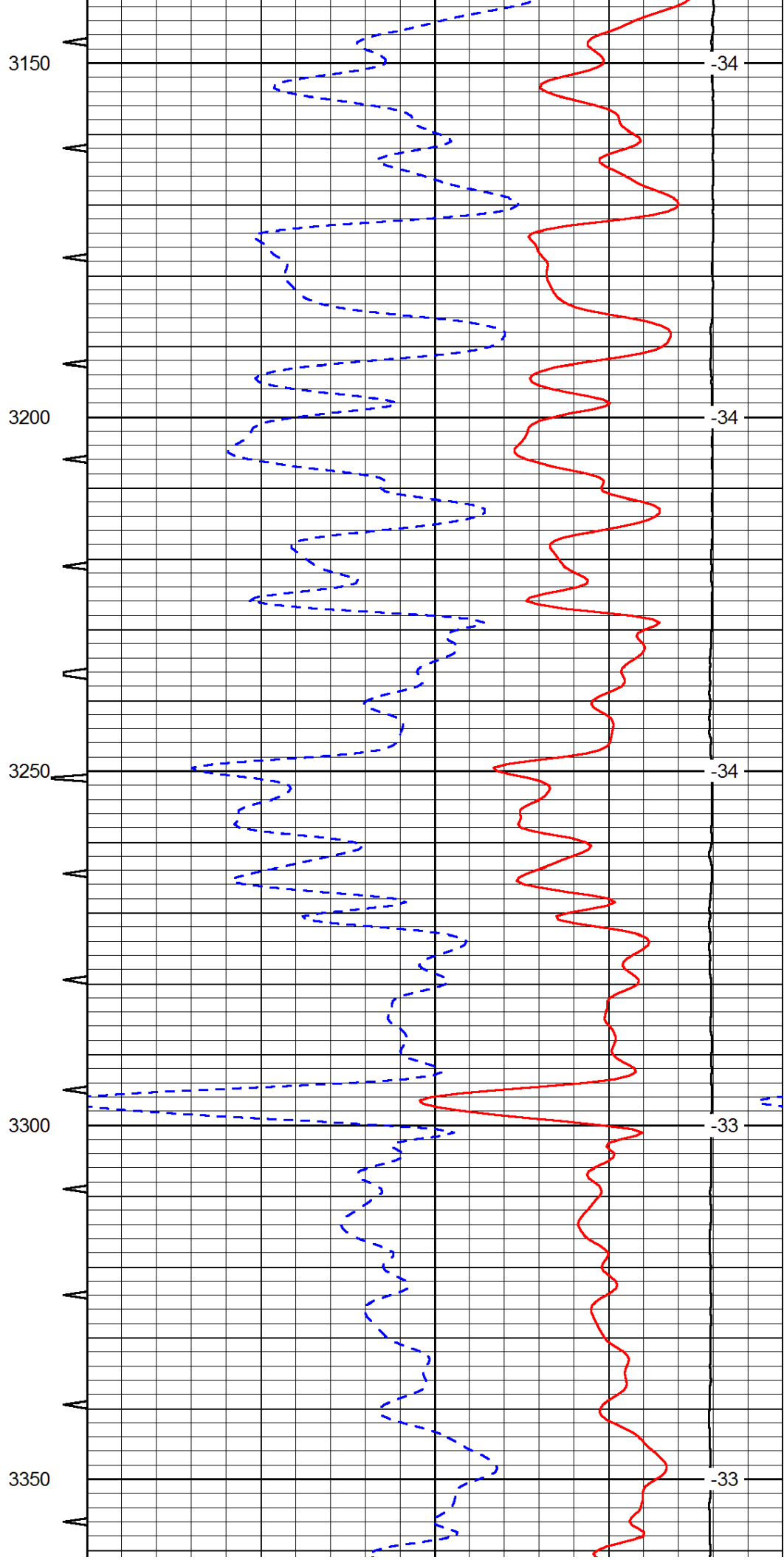
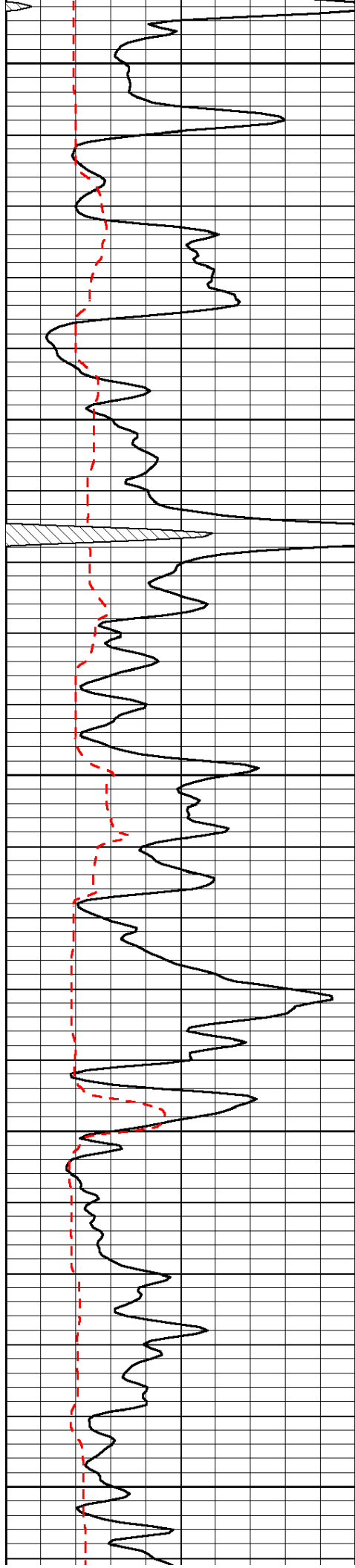


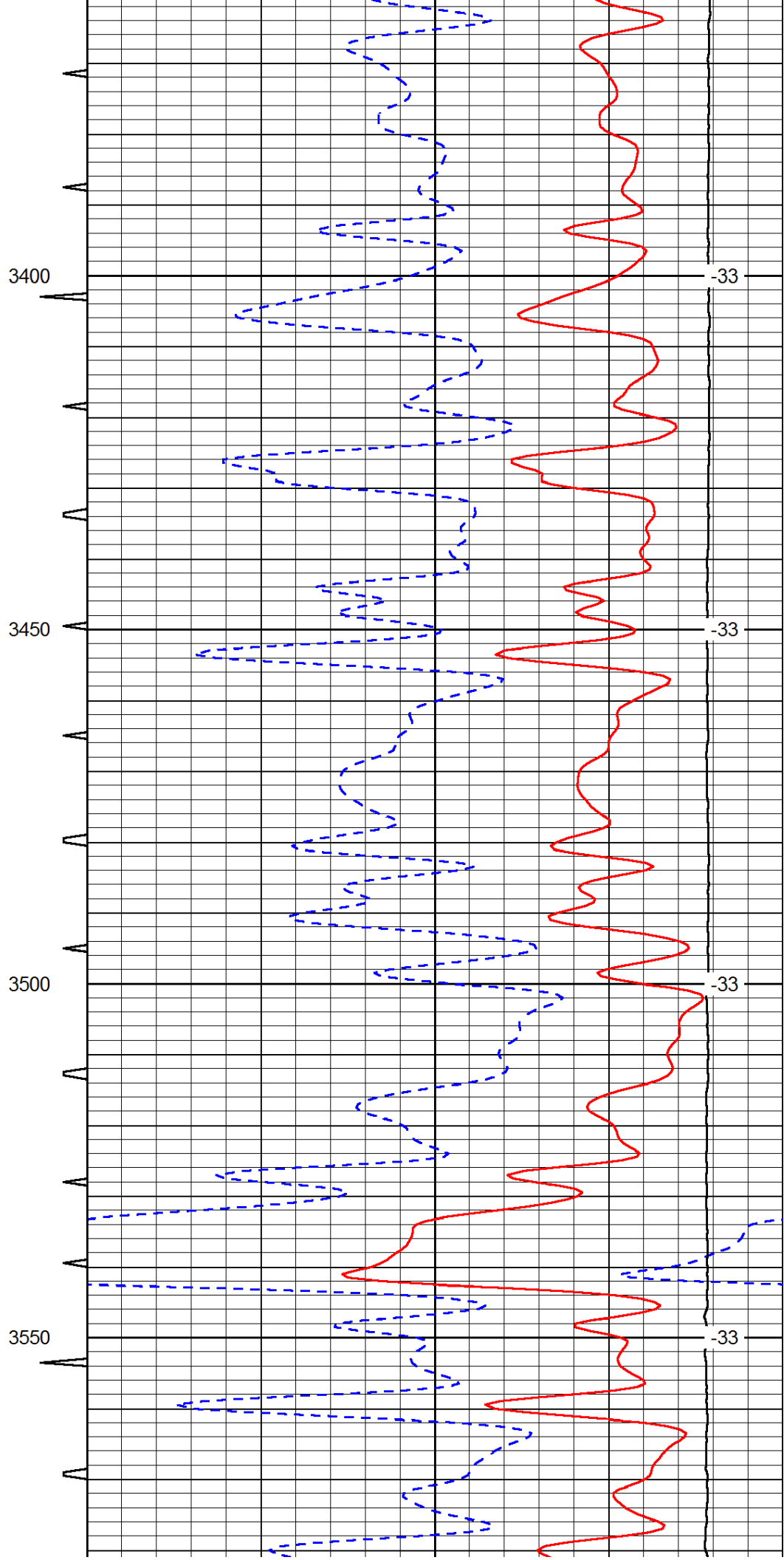
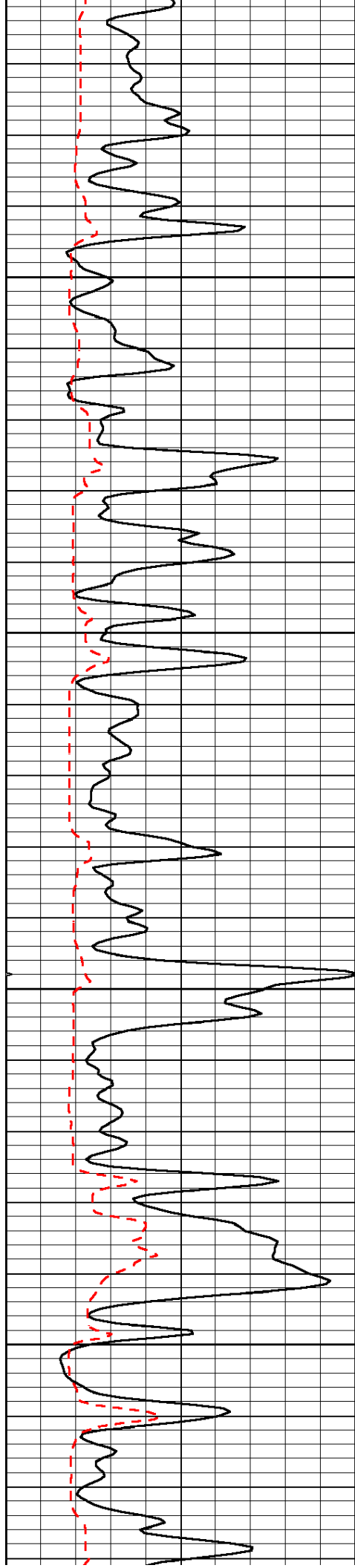


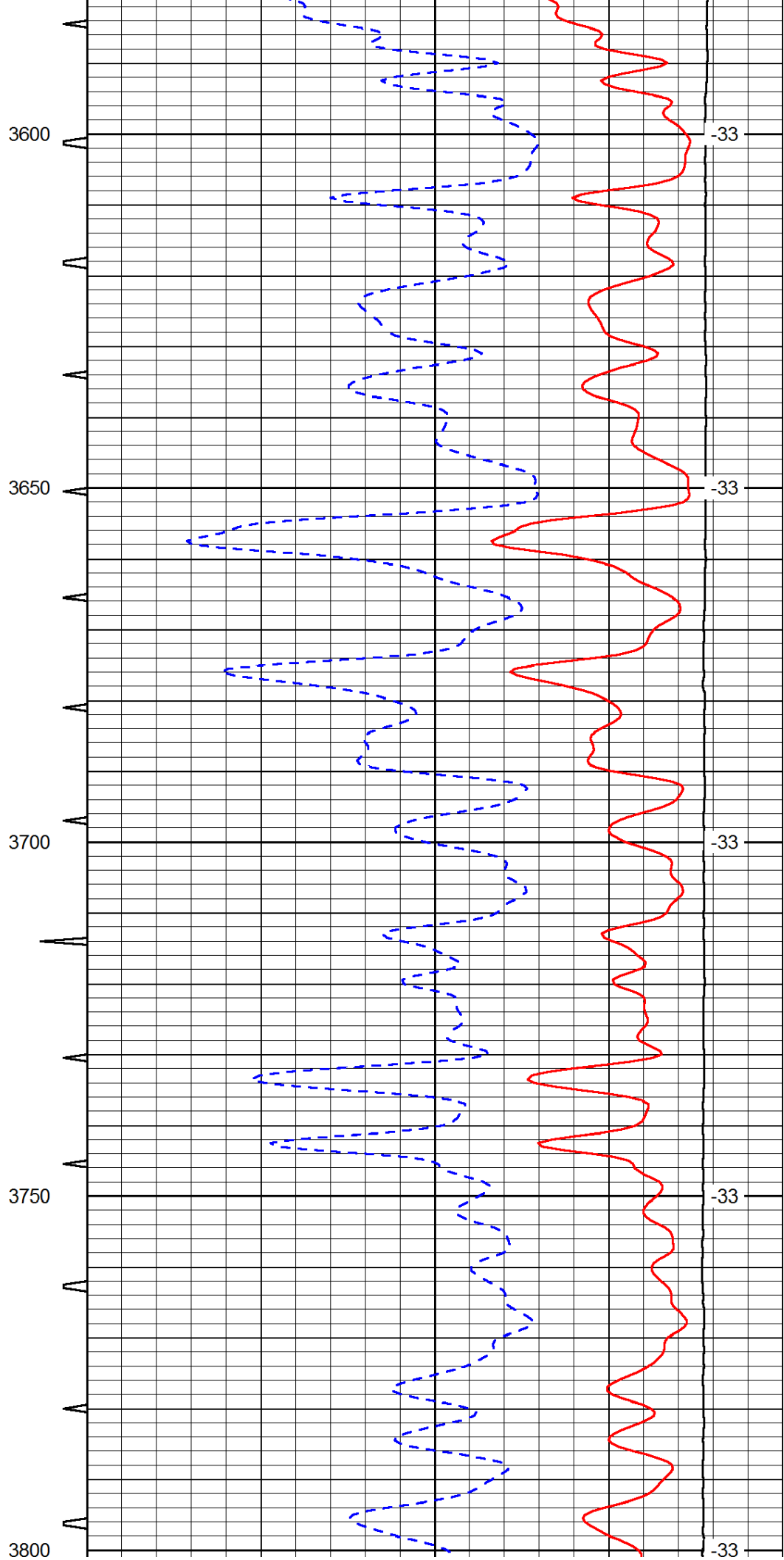
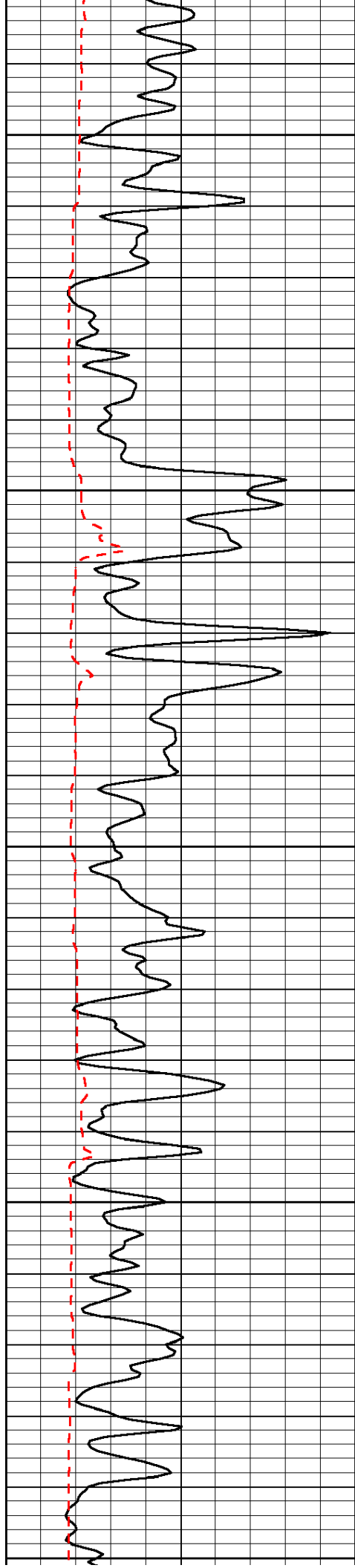


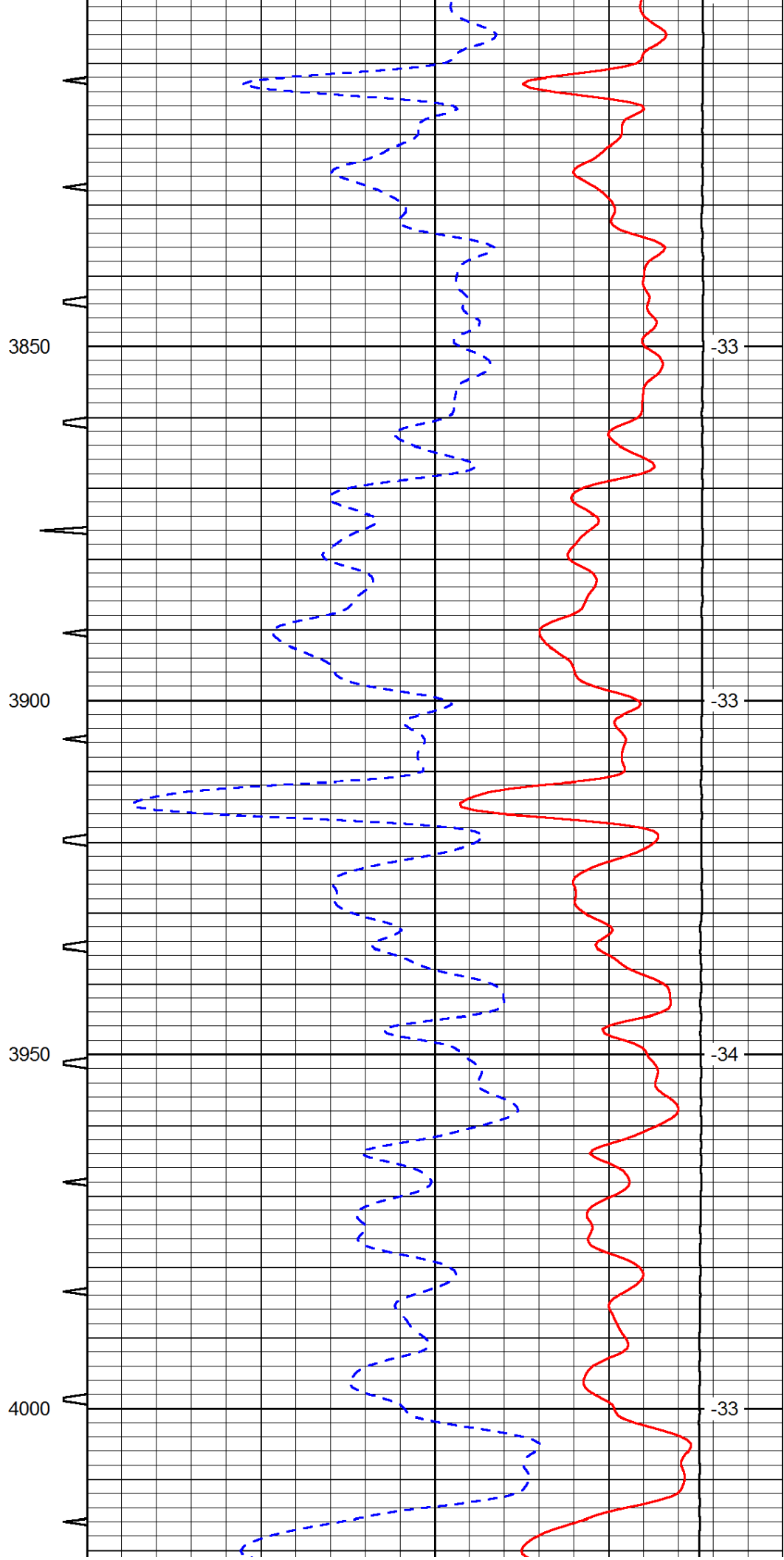
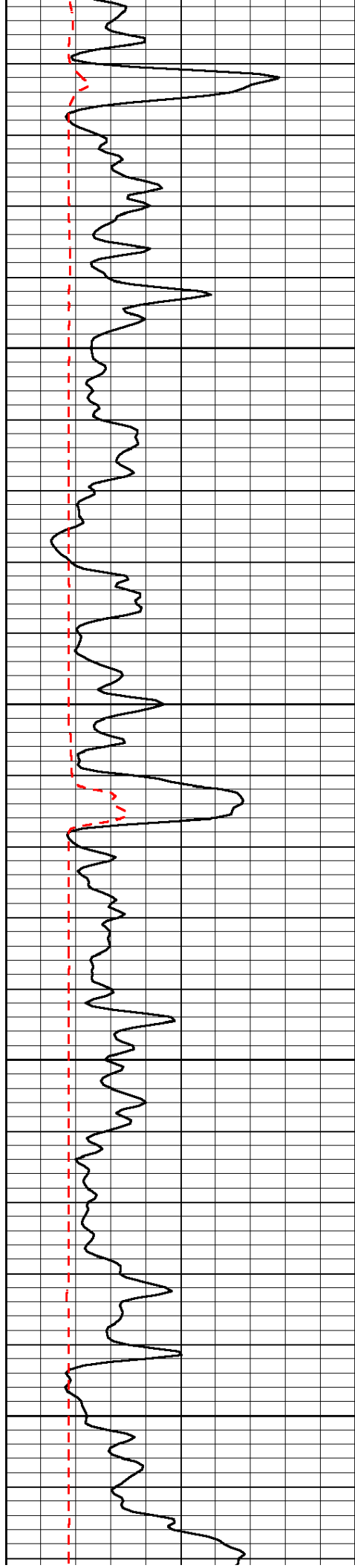


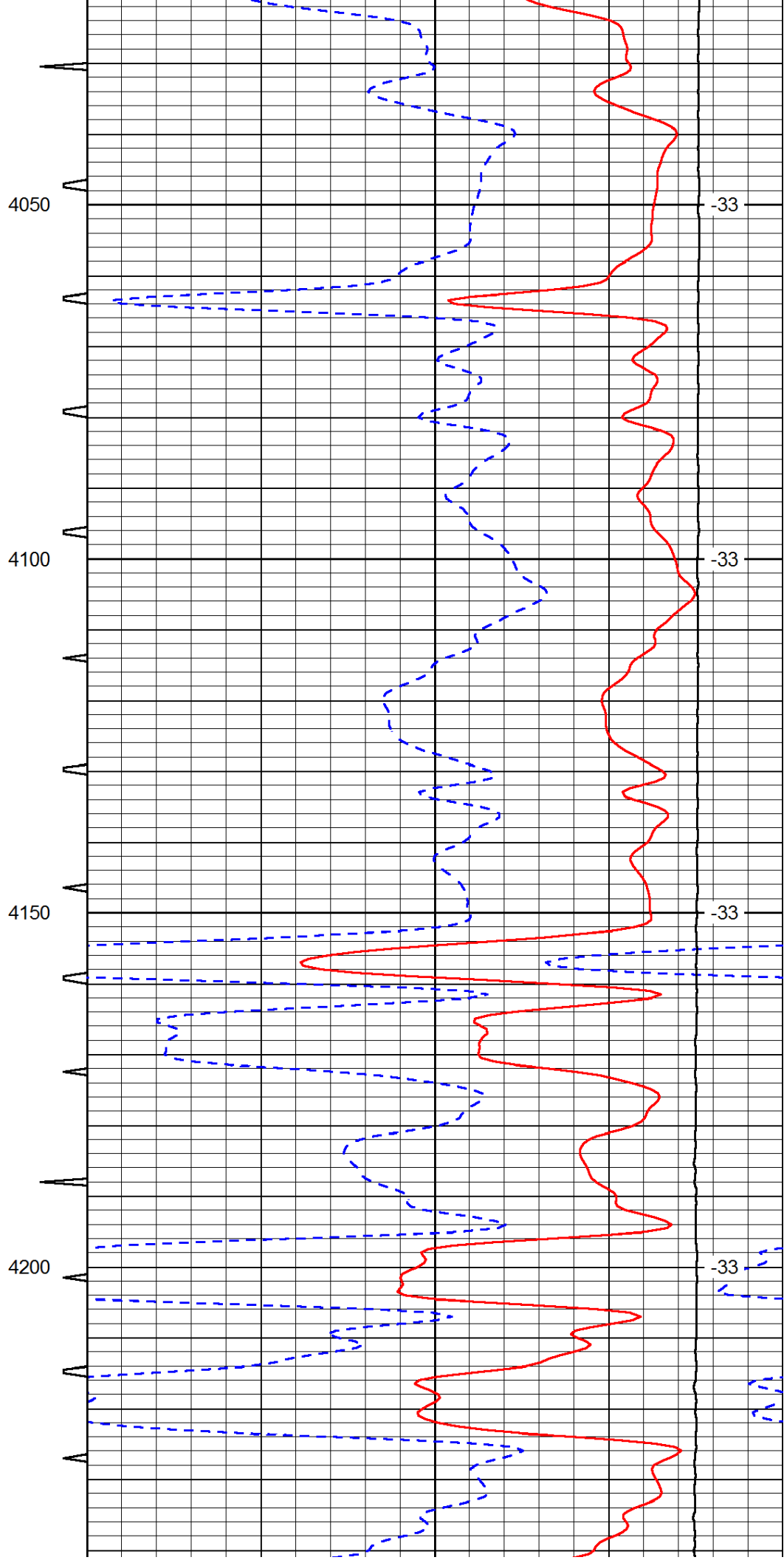
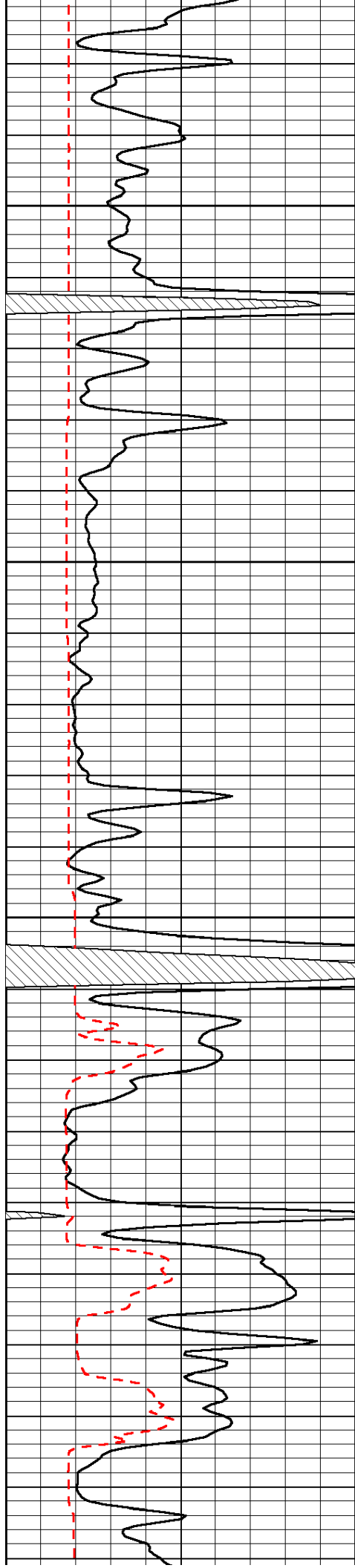


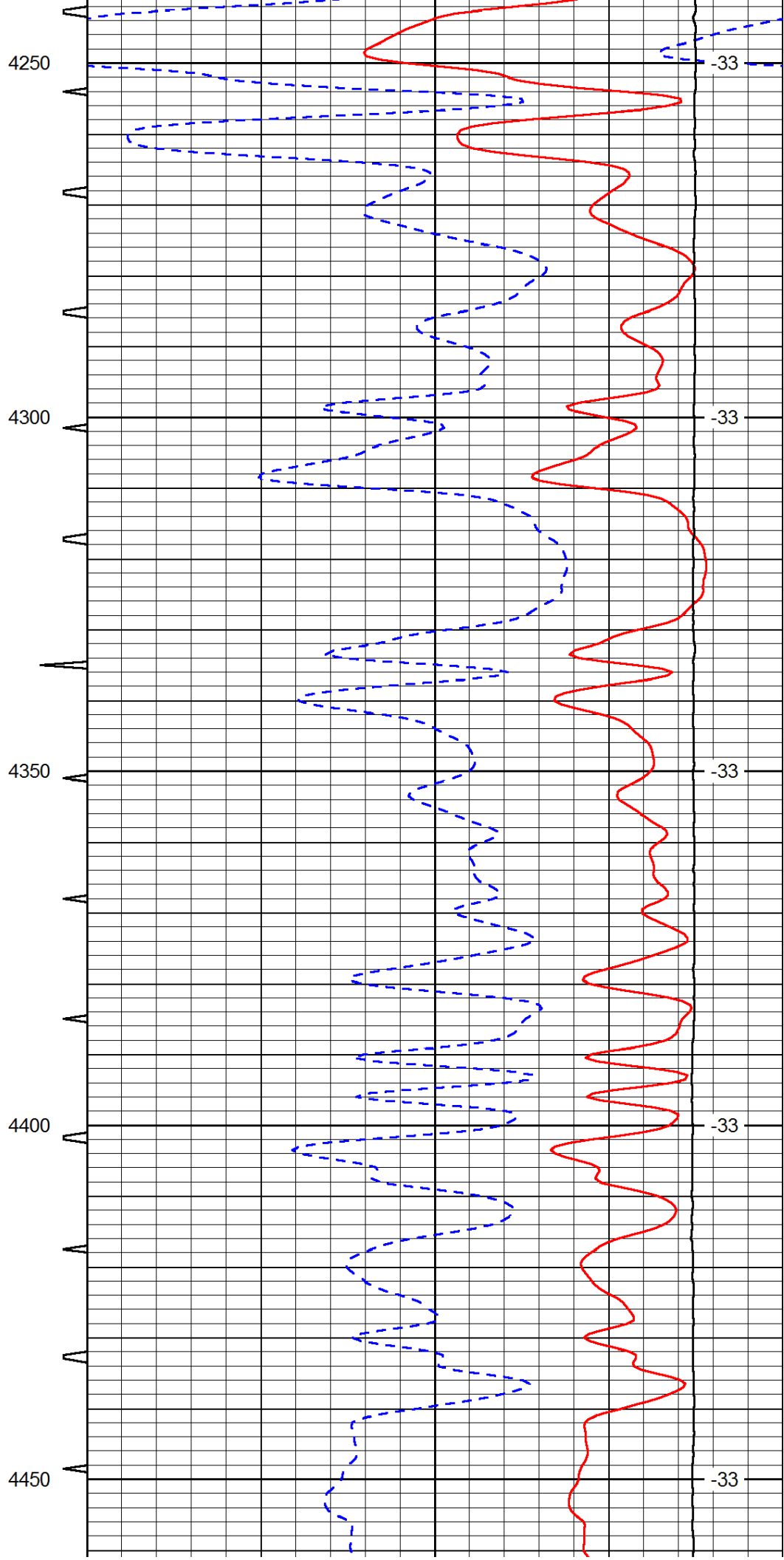
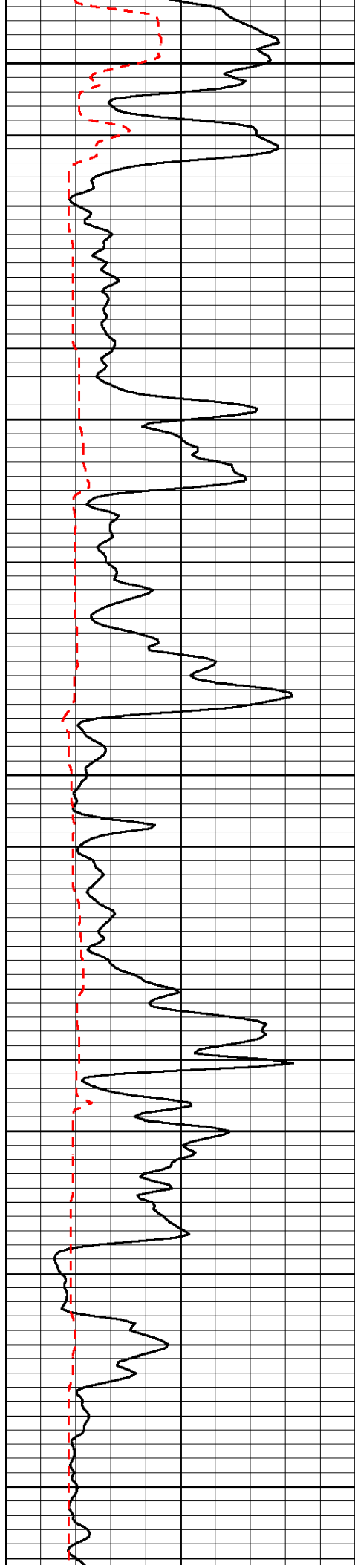


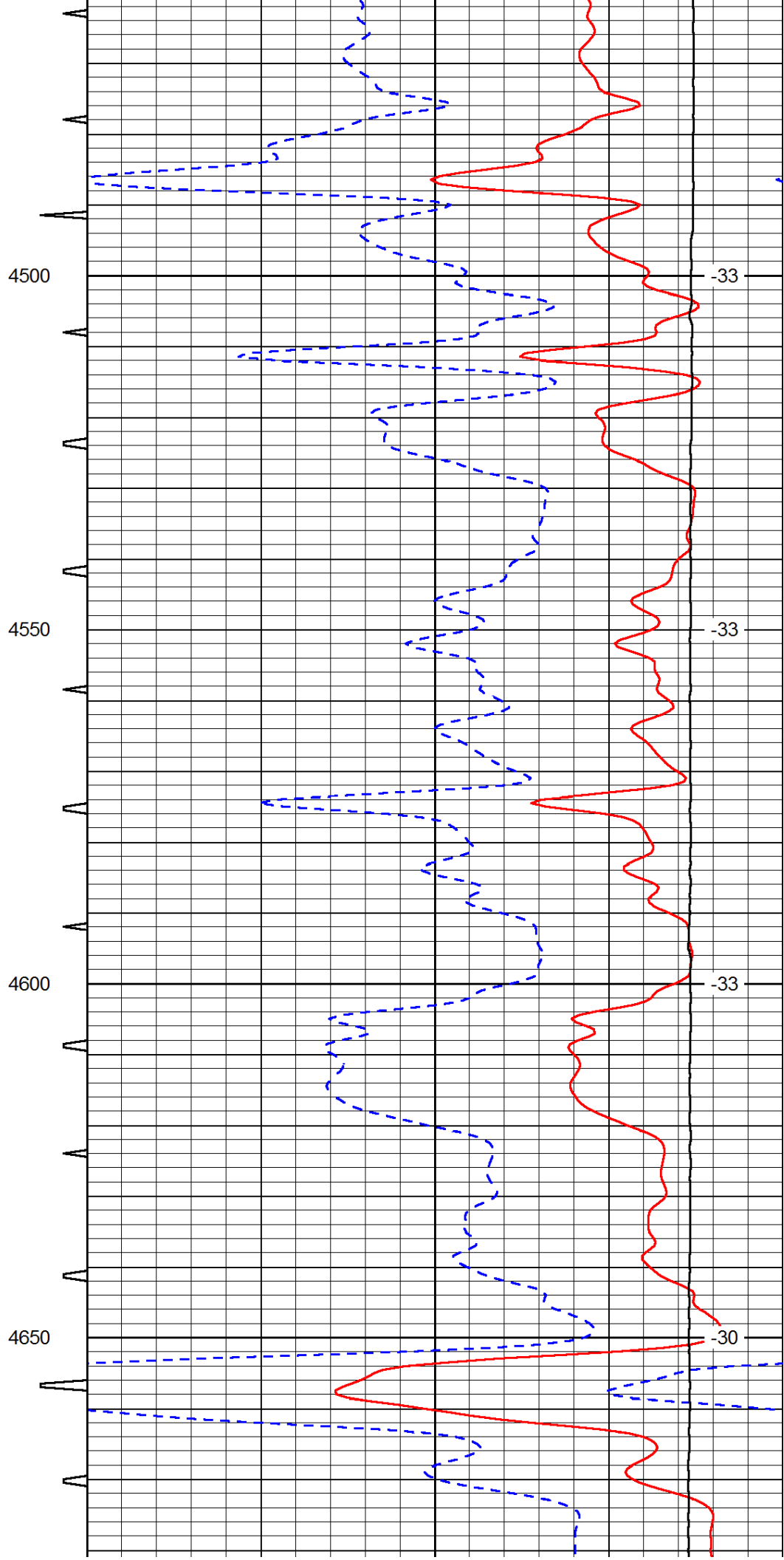
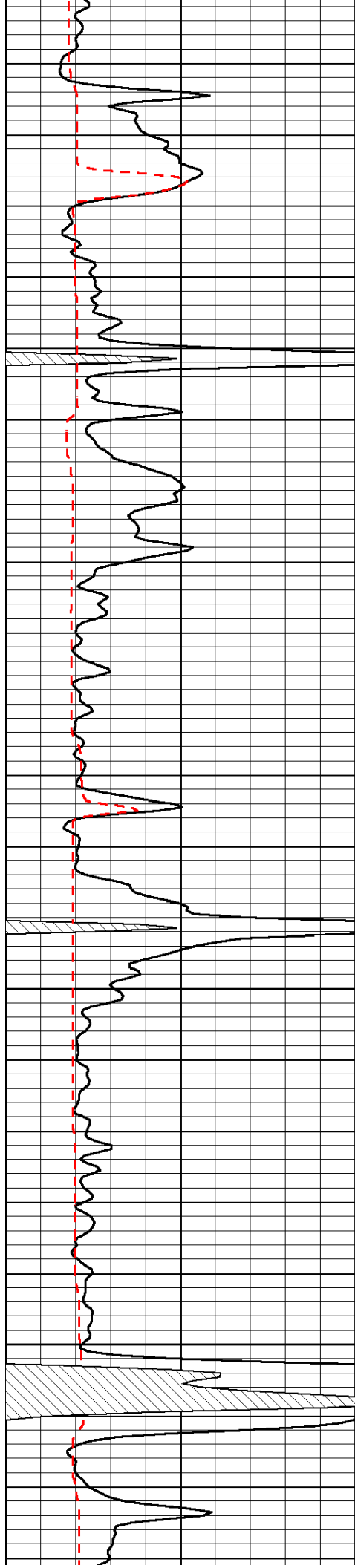


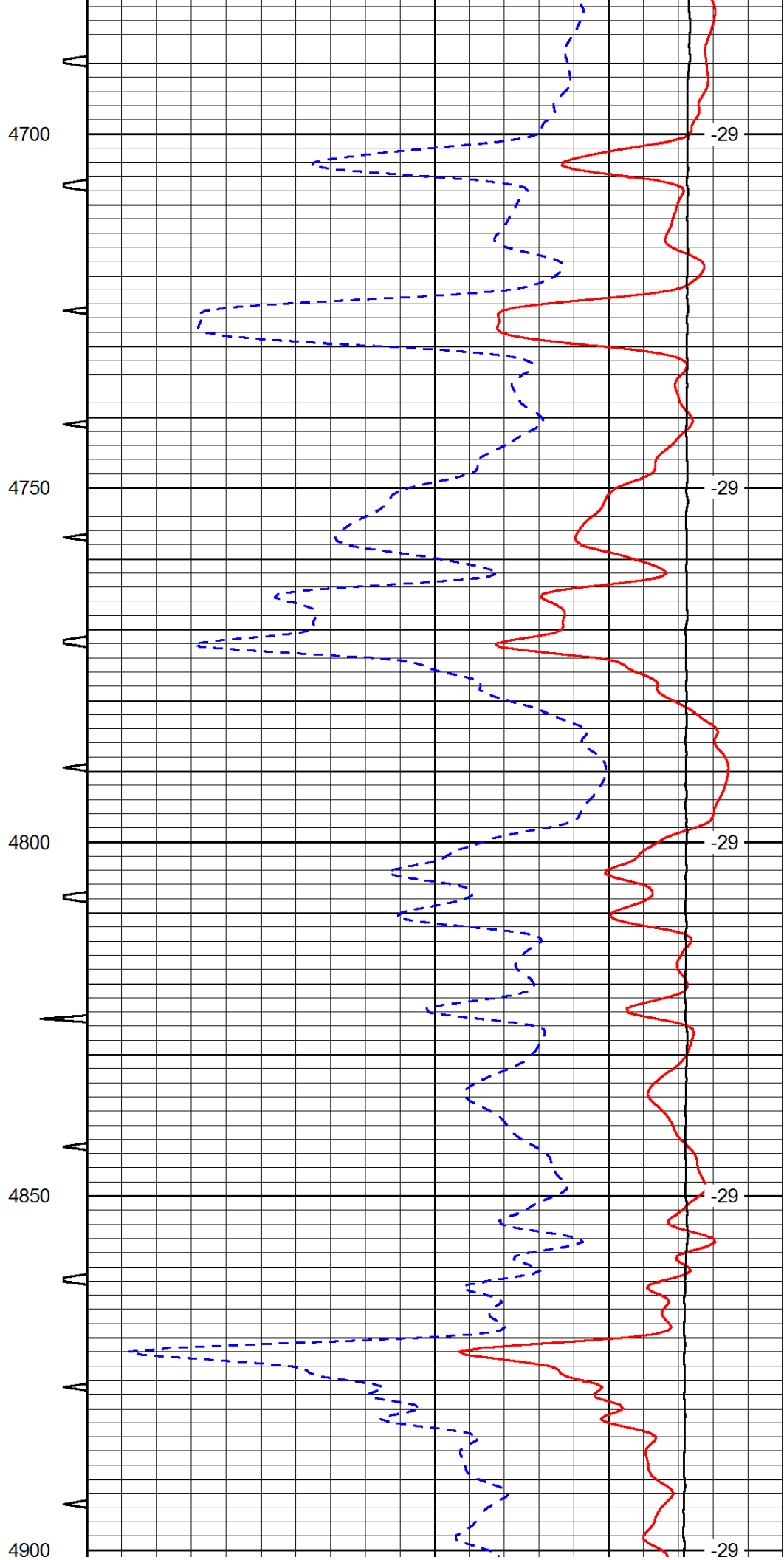
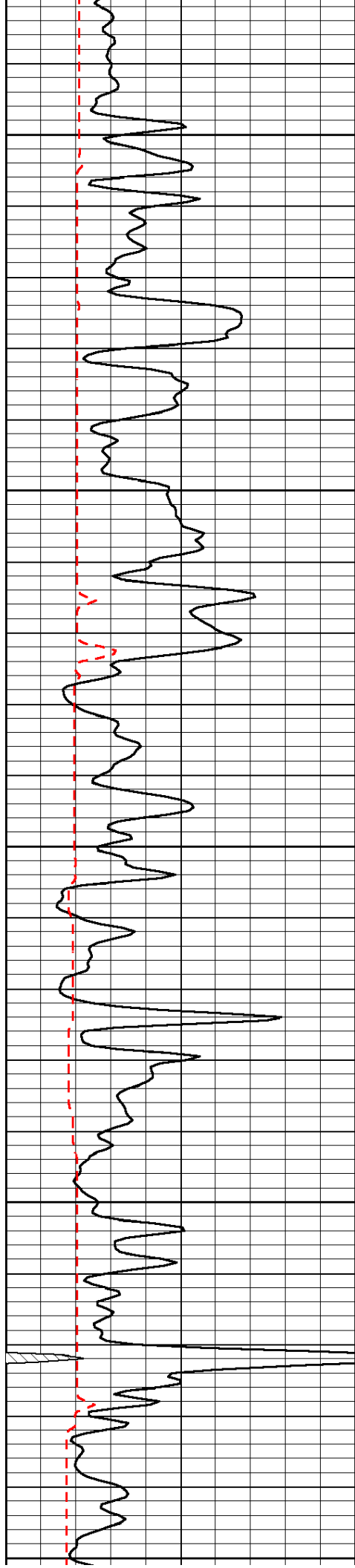


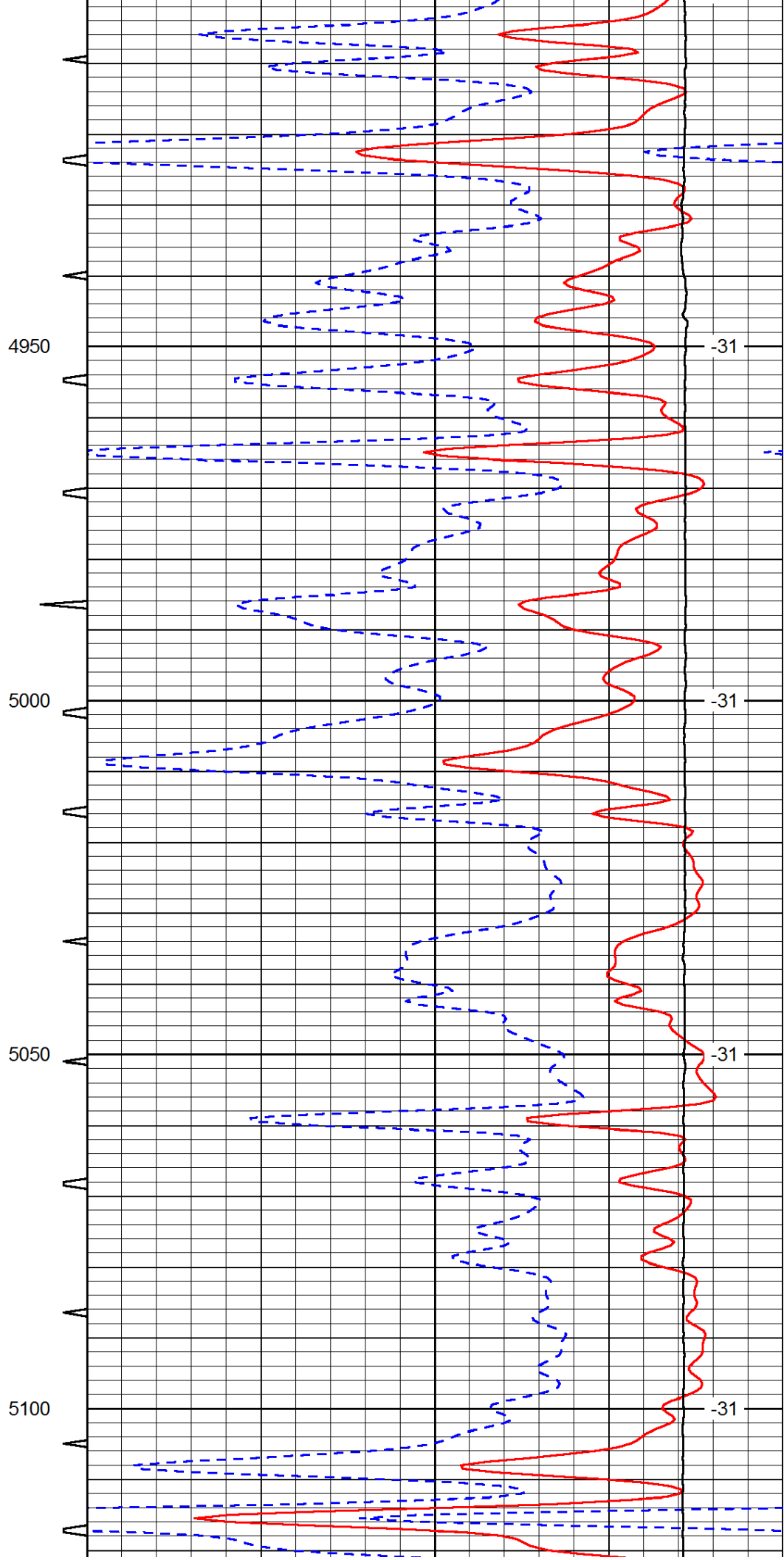
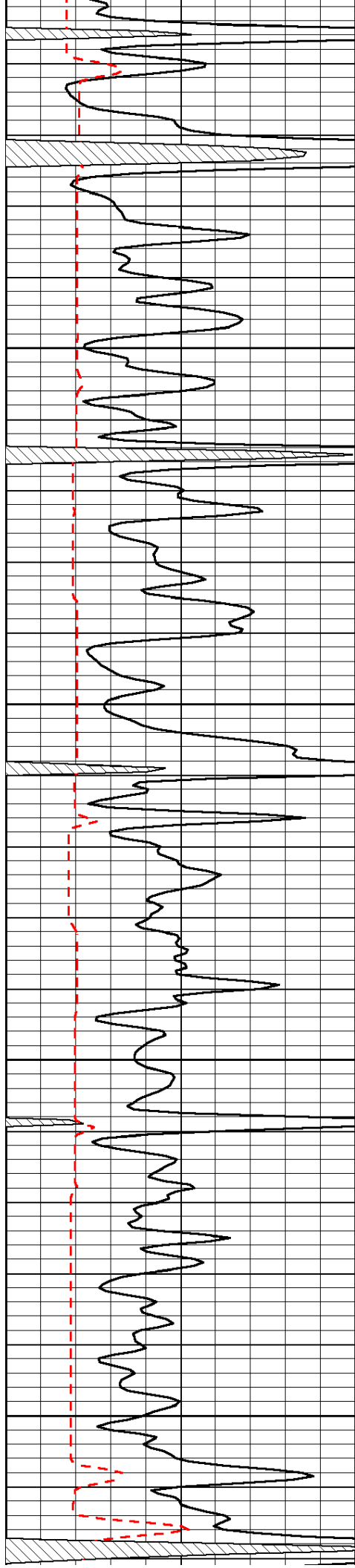


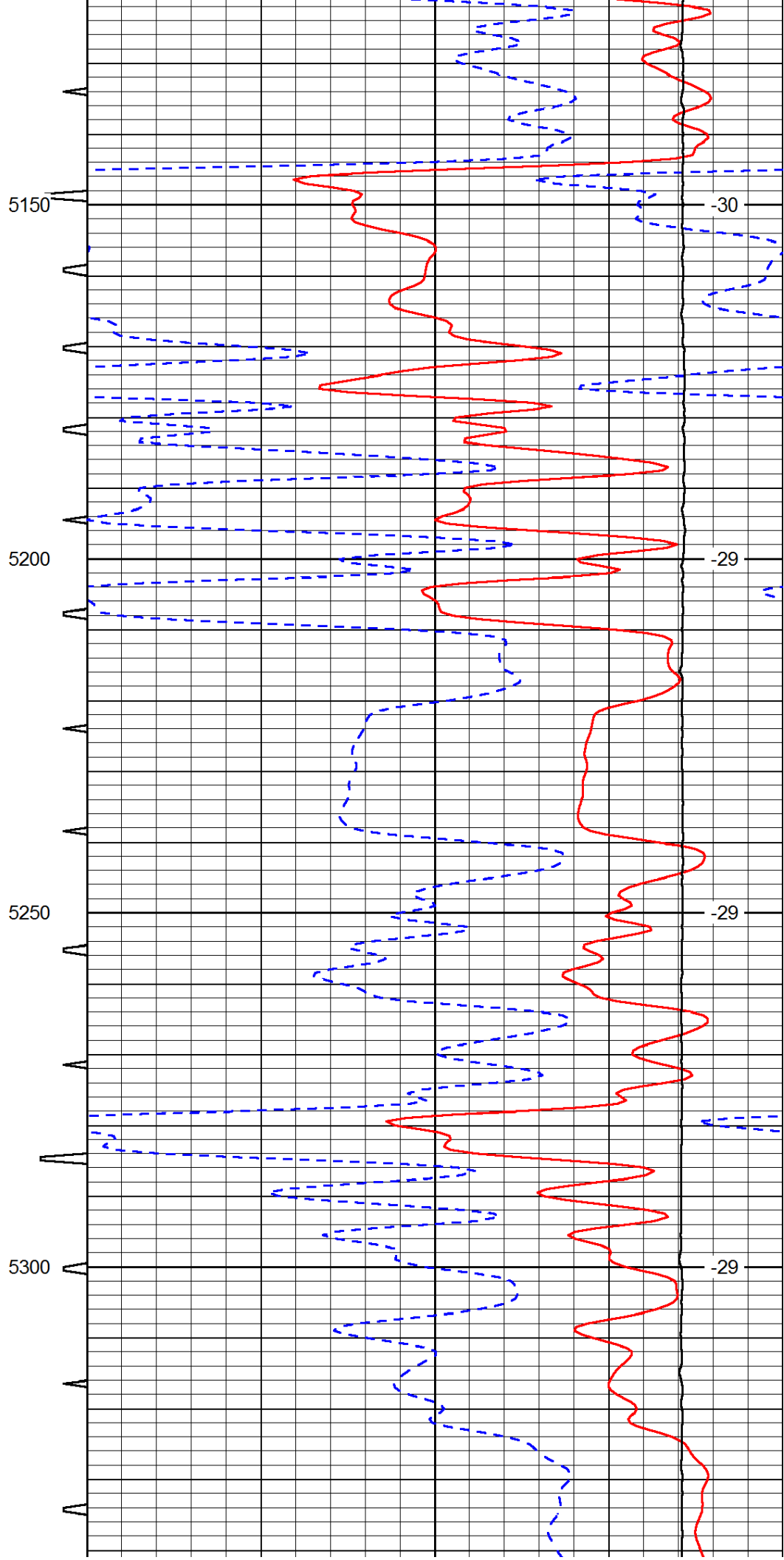
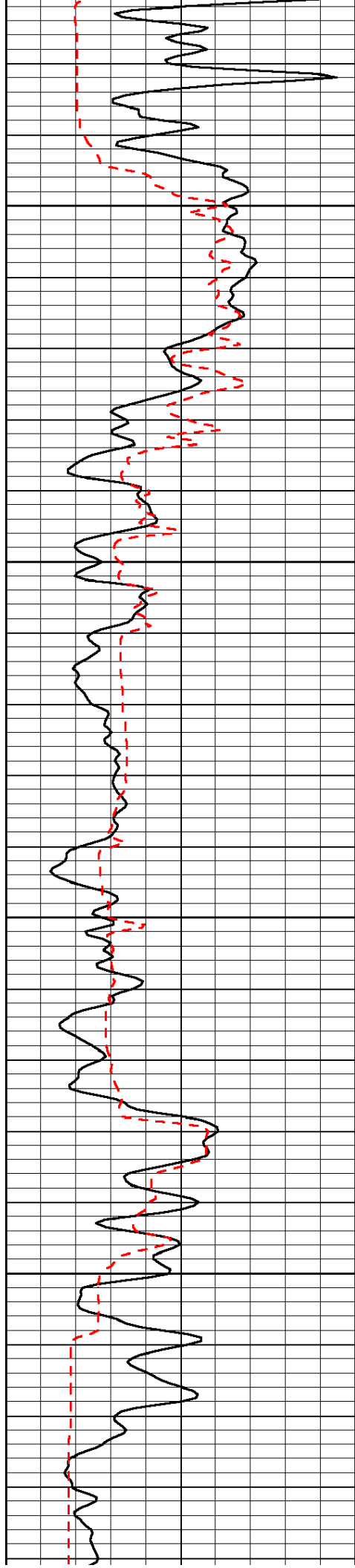


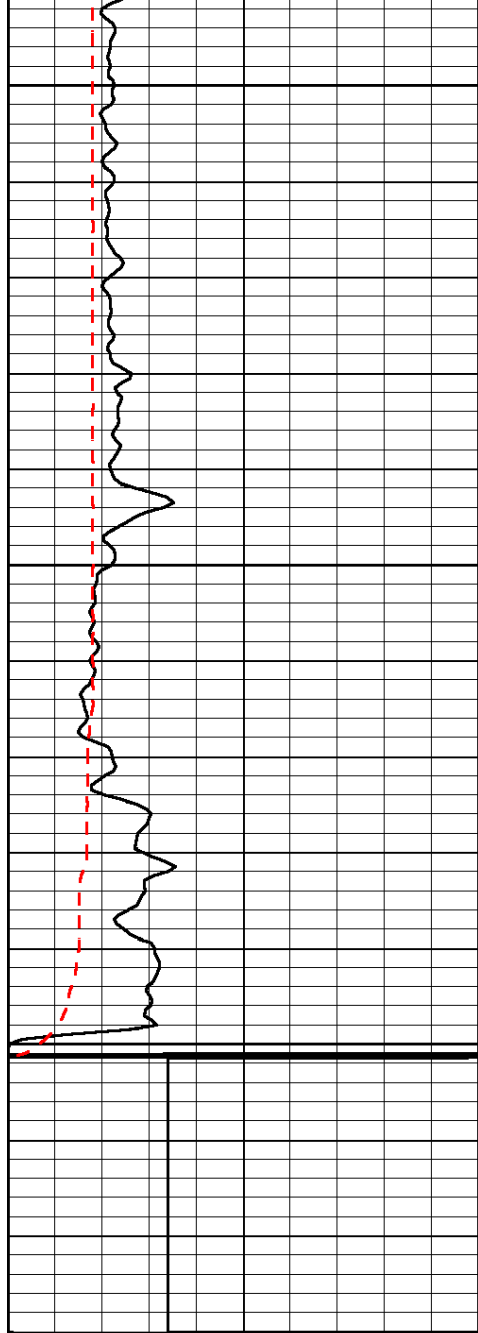




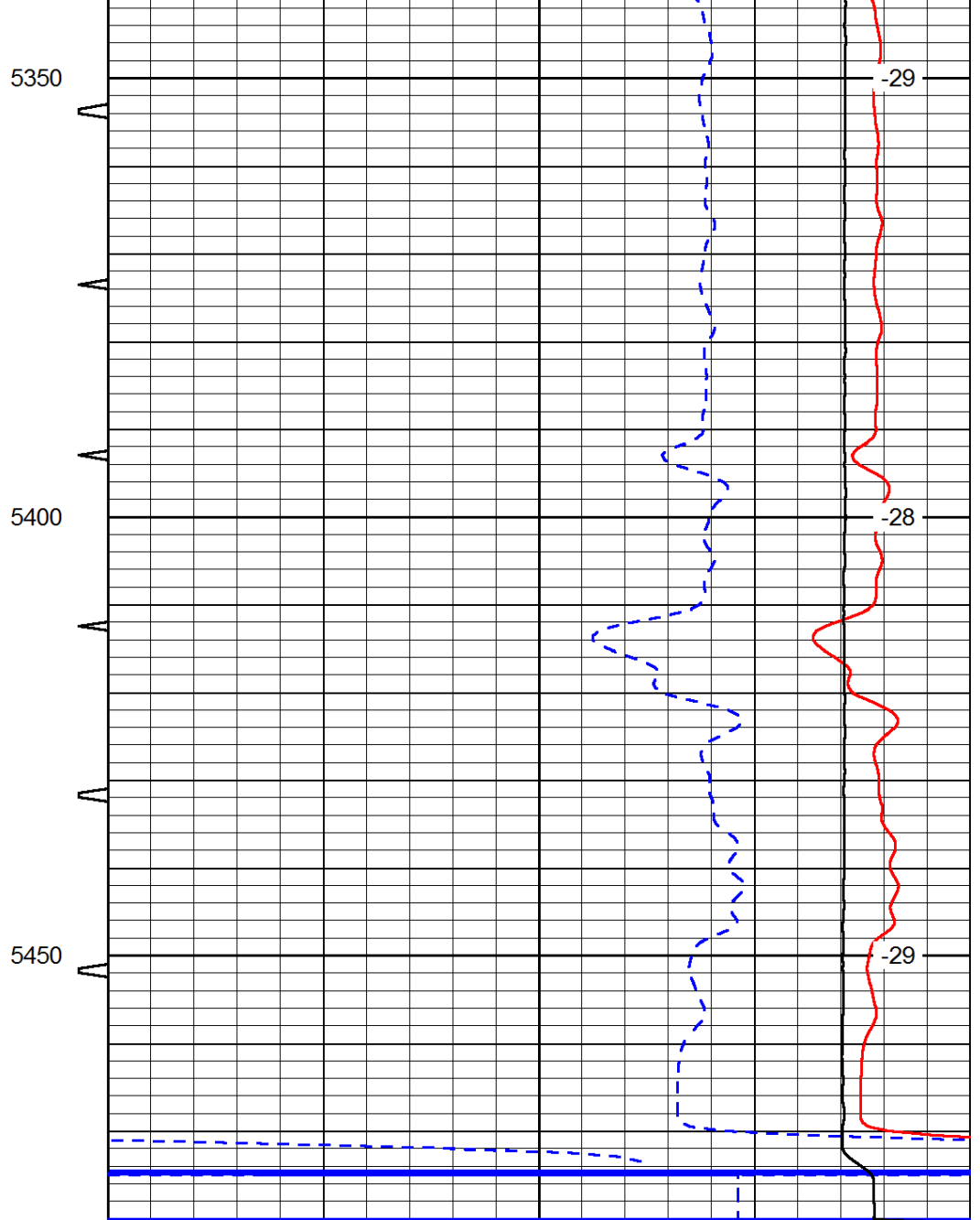








0	Gamma Ray	150
150	Gamma Ray	300
6	Caliper (GAPI)	16



Sonic Int	140	Delta Time (usec/ft)	40
5	0	SPOR	-10
	30	LTEN (lb)	0
	15000		

LSPD