



Borehole Compensated Sonic Log

Pioneer Energy Services

API No.

15-153-21,107-00-00

Company **Murfin Drilling Company, Inc.**

Well **Cheryl No. 1-33**

Field **Wildcat**

County **Rawlins**

State **Kansas**

Location

990' FSL & 1,650' FEL

Sec: **33**

Twp: **1S**

Rge: **36W**

Elevation

Permanent Datum **Ground Level** Elevation **3269**
Log Measured From **Kelly Bushing** 11 Ft. Above Perm. Datum
Drilling Measured From **Kelly Bushing**

K.B. 3280
D.F.
G.L. 3269

Date

2/18/2015

Run Number

Two

Type Log

BHC Sonic

Depth Driller

4950

Depth Logger

4952

Bottom Logged Interval

4941

Top Logged Interval

200

Type Fluid In Hole

Chemical

Salinity, PPM CL

600

Density

9.1

Level

Full

Max. Rec. Temp. F

126

Operating Rig Time

4 1/2 Hours

Equipment -- Location

108 Hays

Recorded By

J. Long

Witnessed By

Saman Sharifaie

Borehole Record

Casing Record

Run No

Bit

From

To

Size

Wgt.

24#

From

To

1

12.25

00

239

8.625

24#

00

239

2

7.875

239

4950

<<< 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.

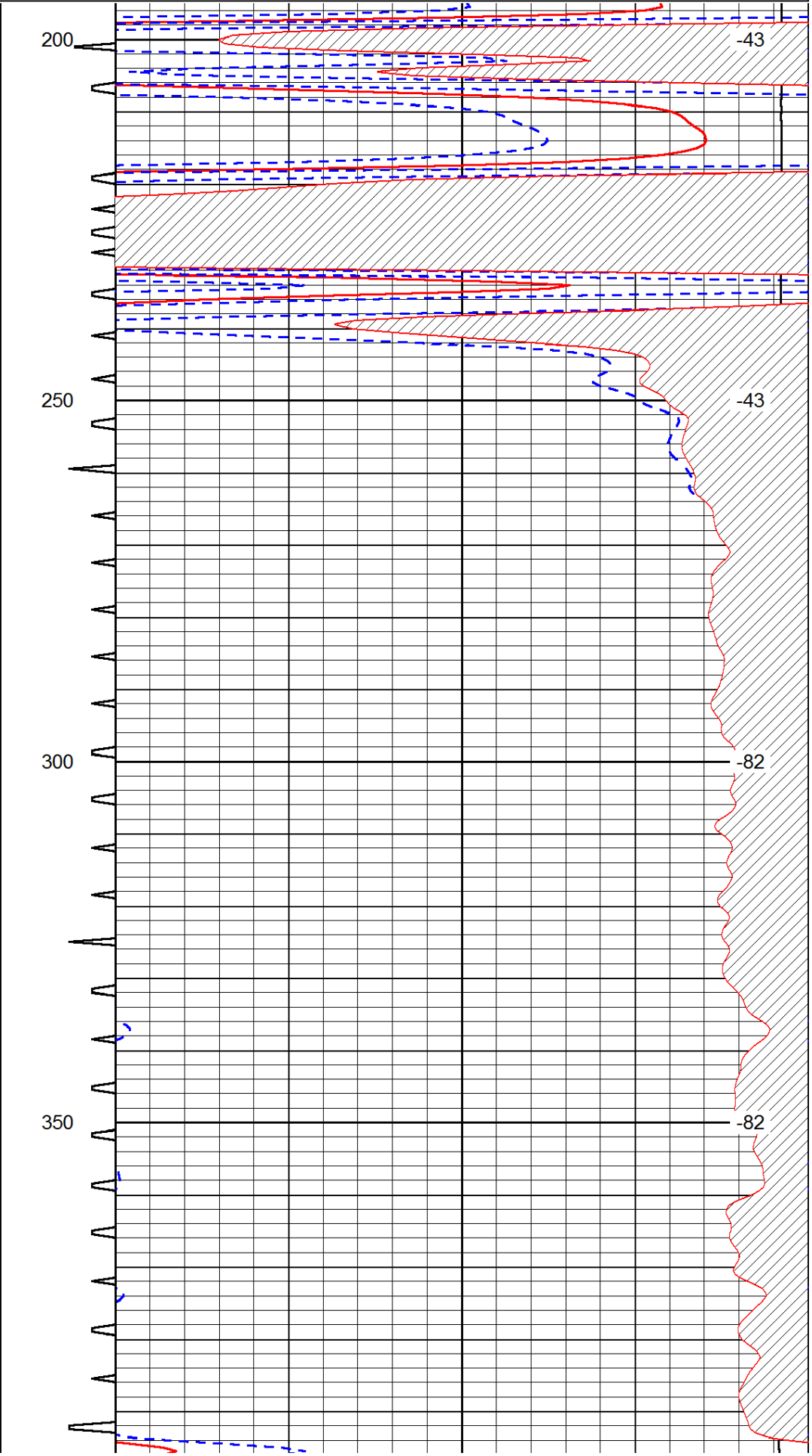
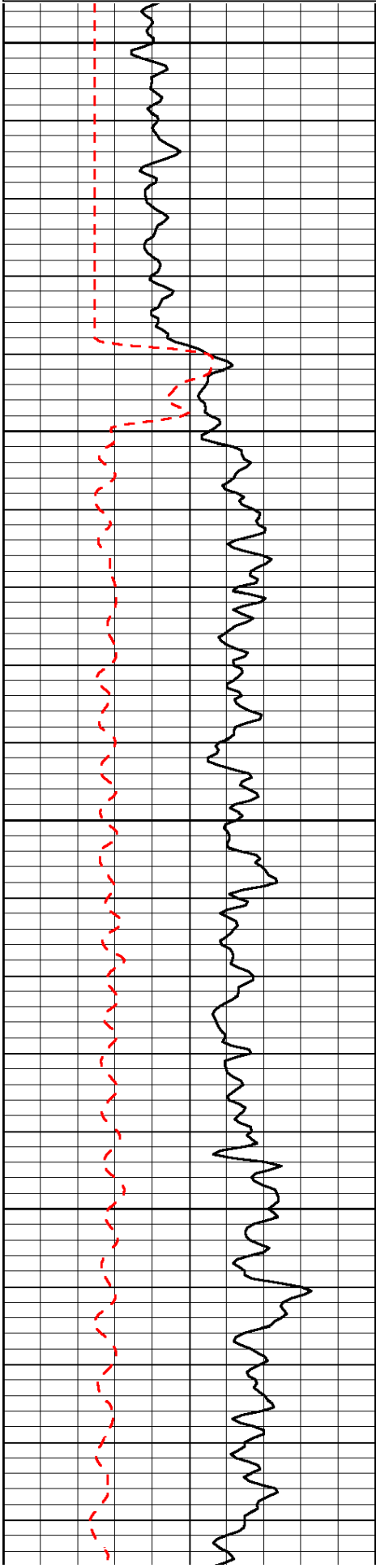
Comments

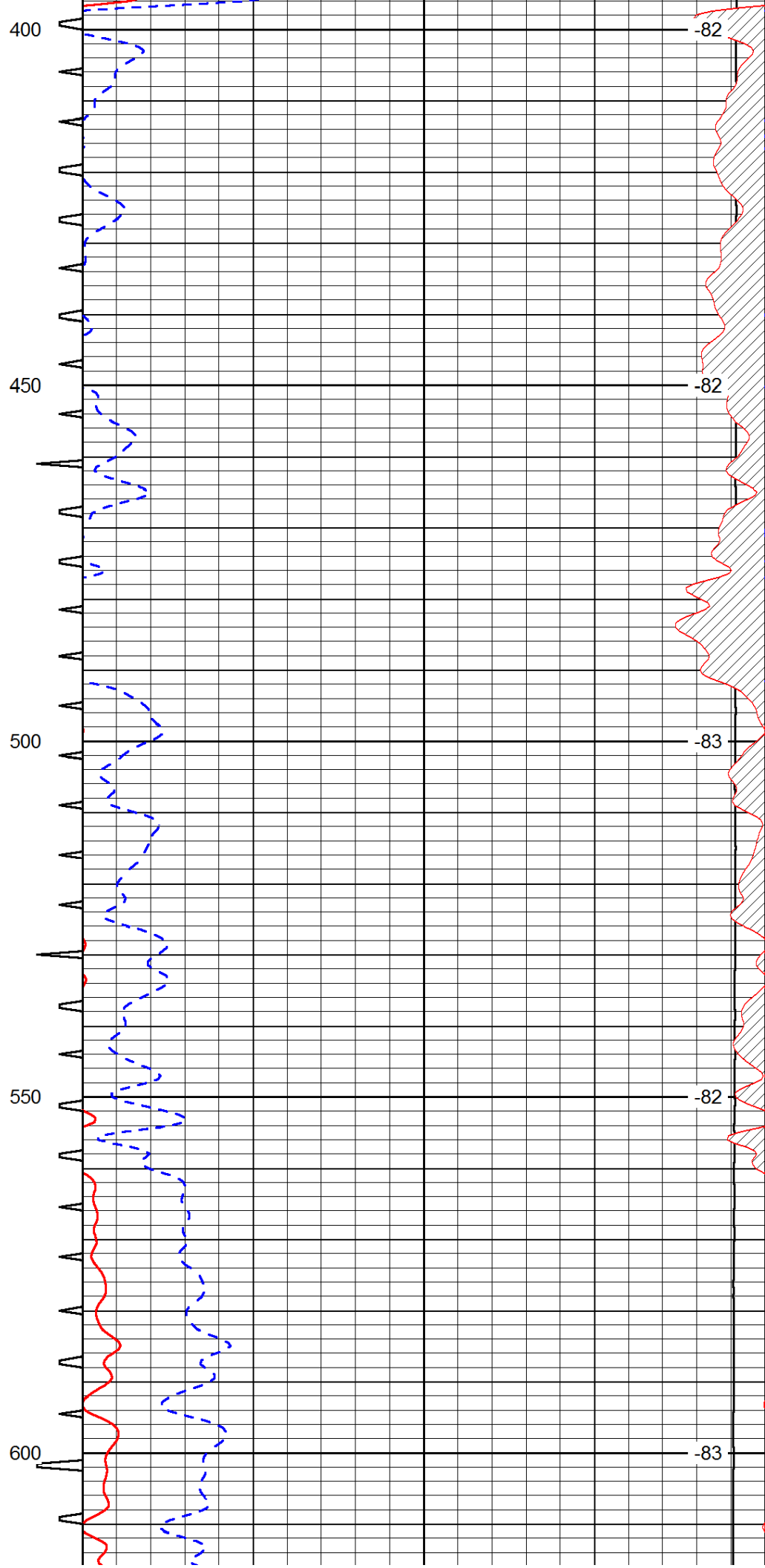
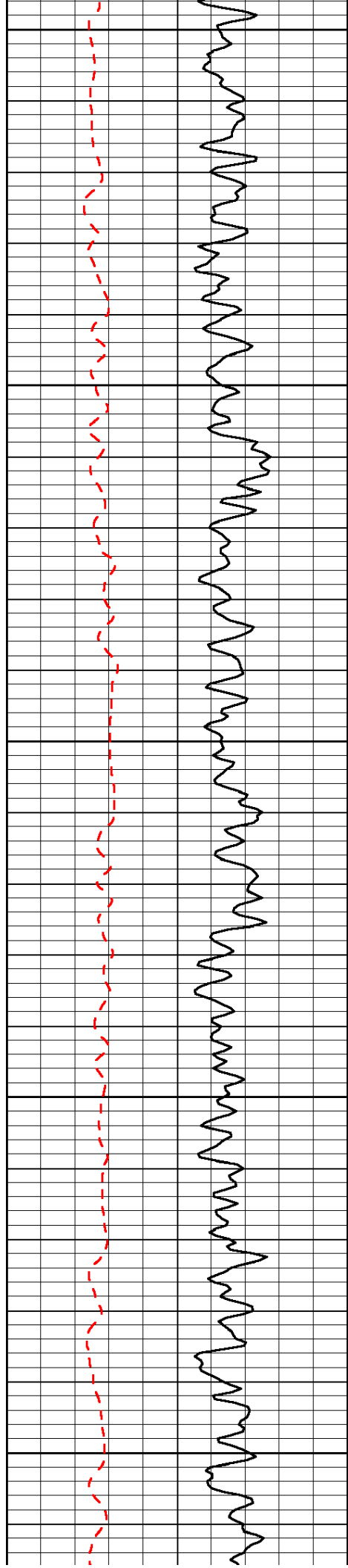
Thank you for using Pioneer Energy Services
www.pioneerres.com
785 625 3858

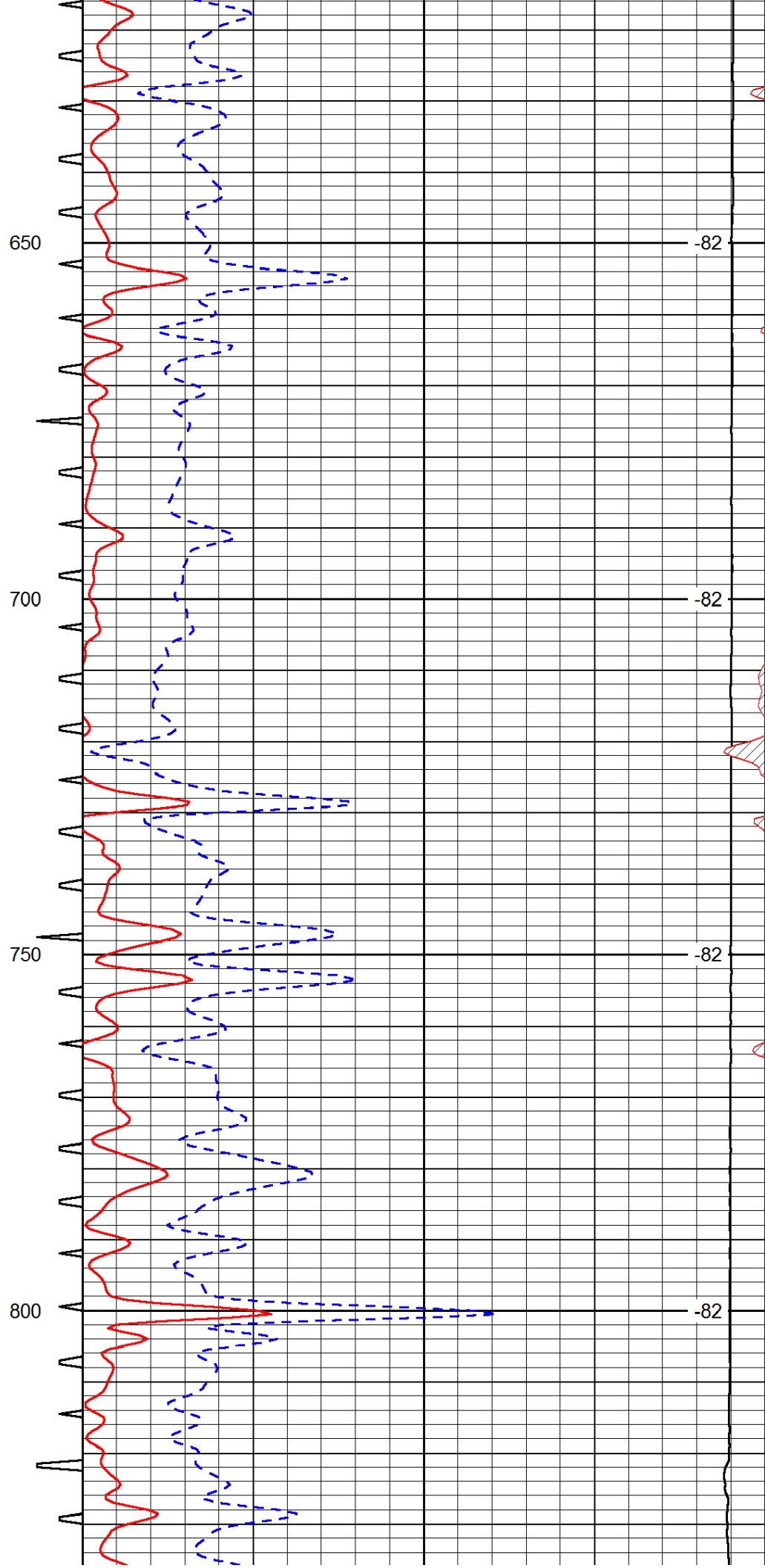
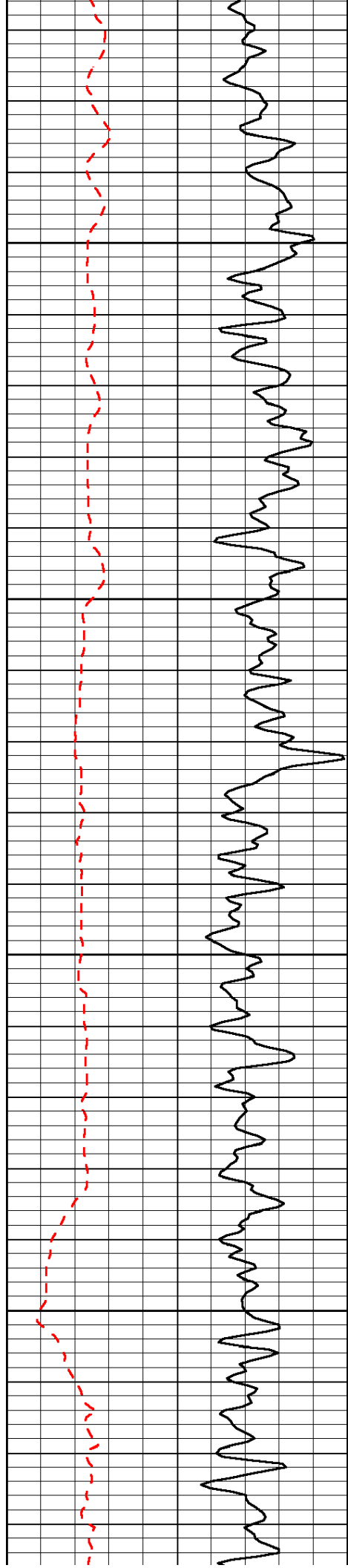
McDonald, 7 1/4 North to W Road, 1 East, 1 North, 1 1/4 North Into

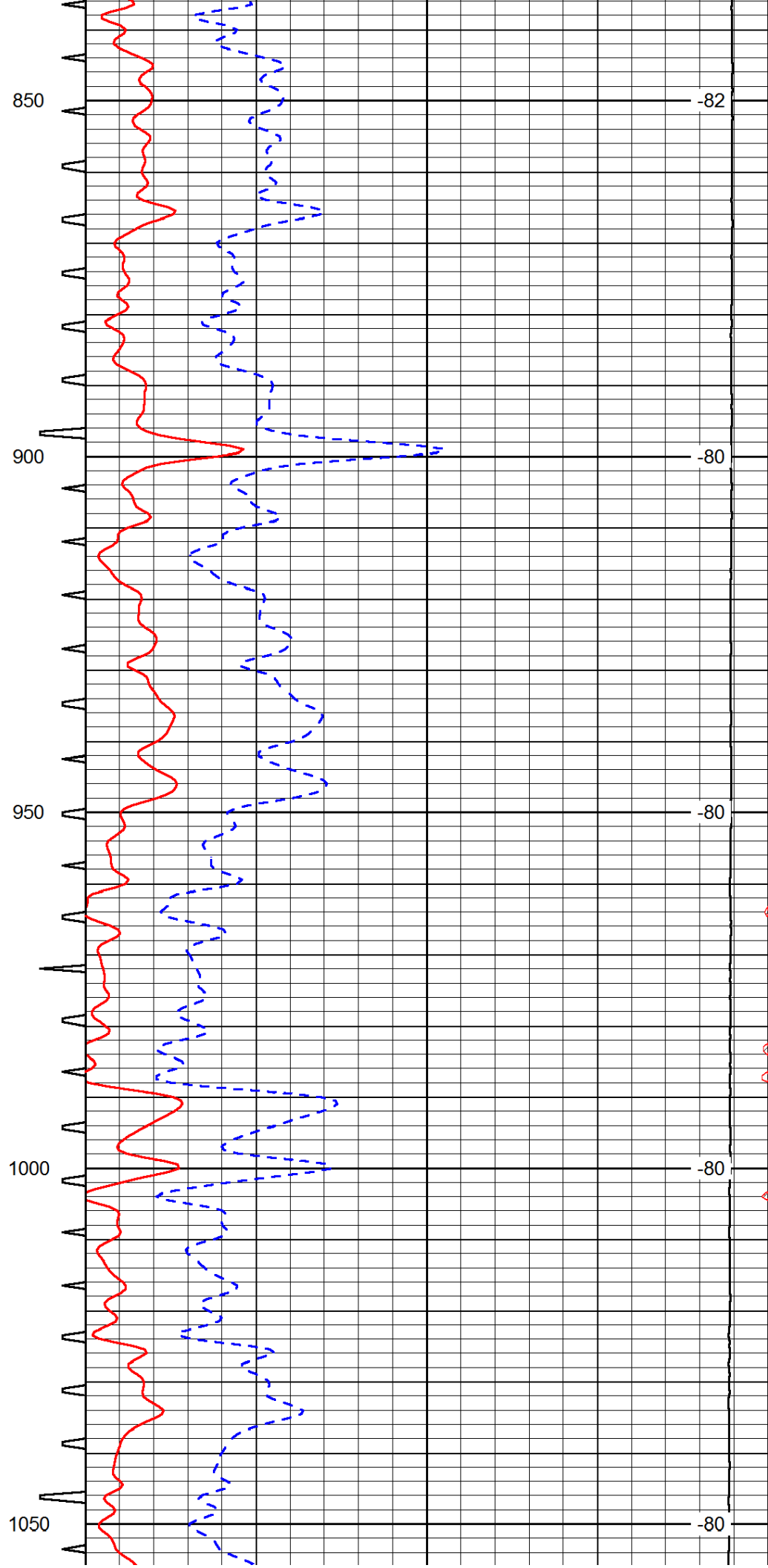
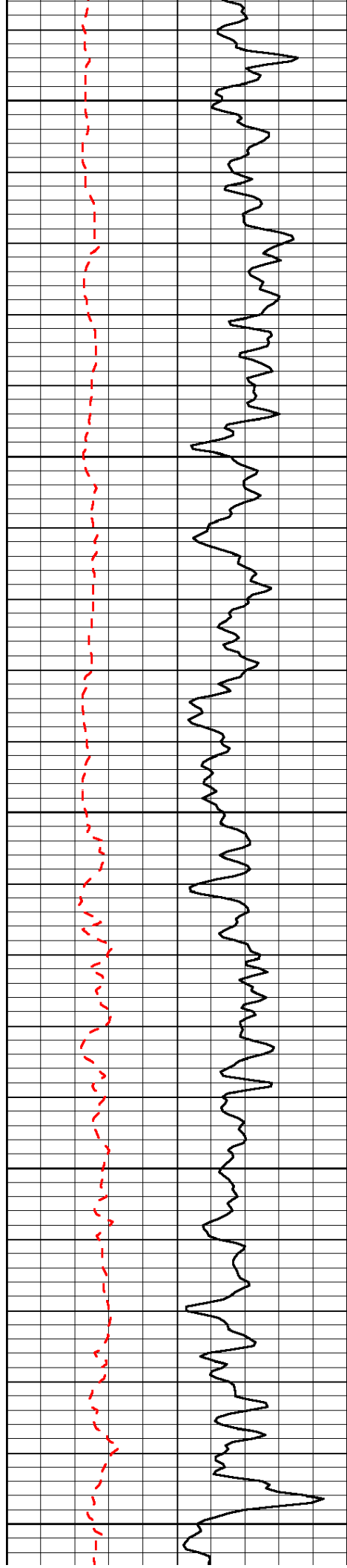
Database File: c:\warrior\data\murfin_cheryl #1-33\murfin_cheryl_1-33hd.db
Dataset Pathname: dil\murfstck
Presentation Format: sonic
Dataset Creation: Wed Feb 18 23:31:13 2015
Charted by: Depth in Feet scaled 1:240

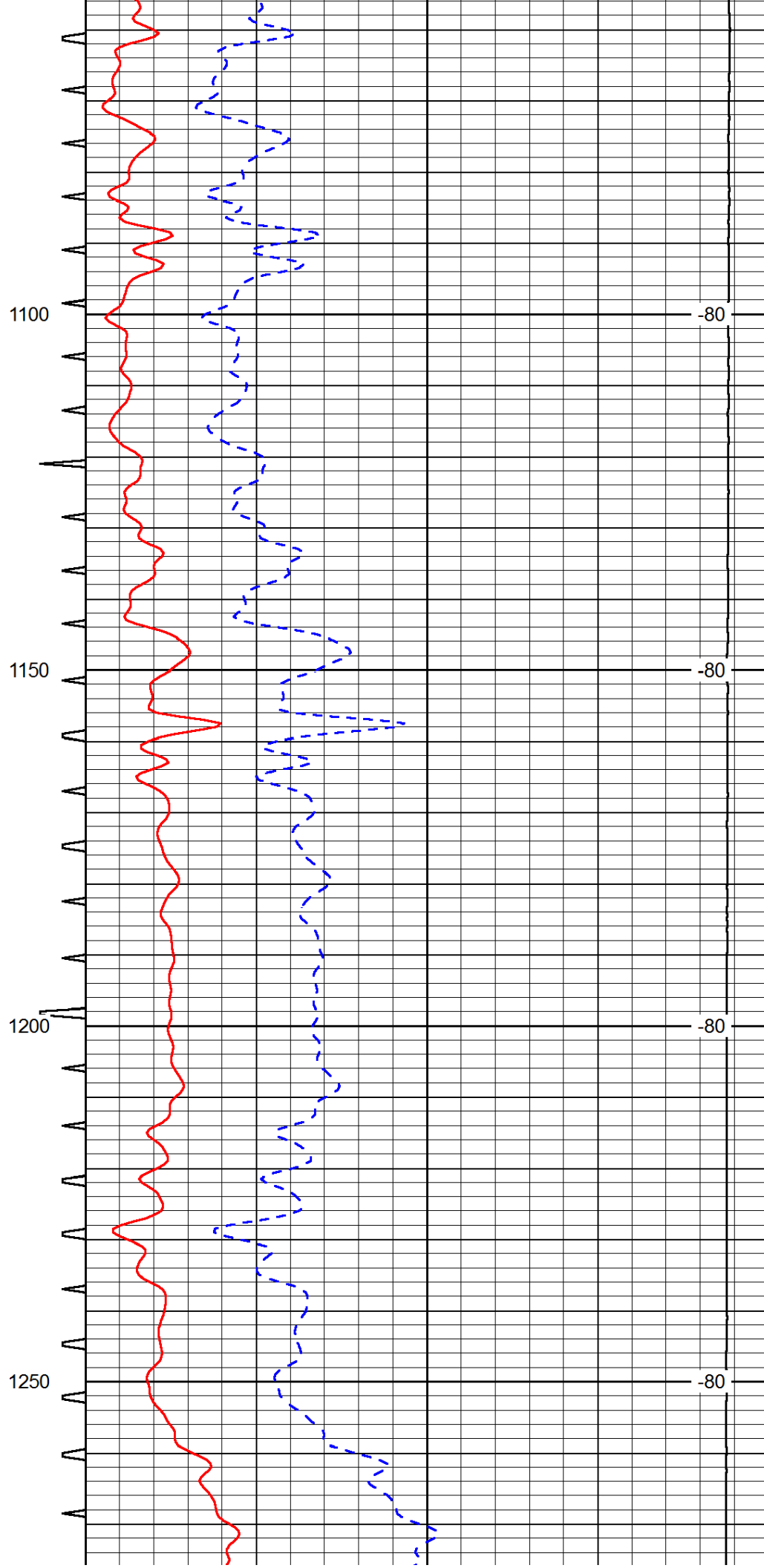
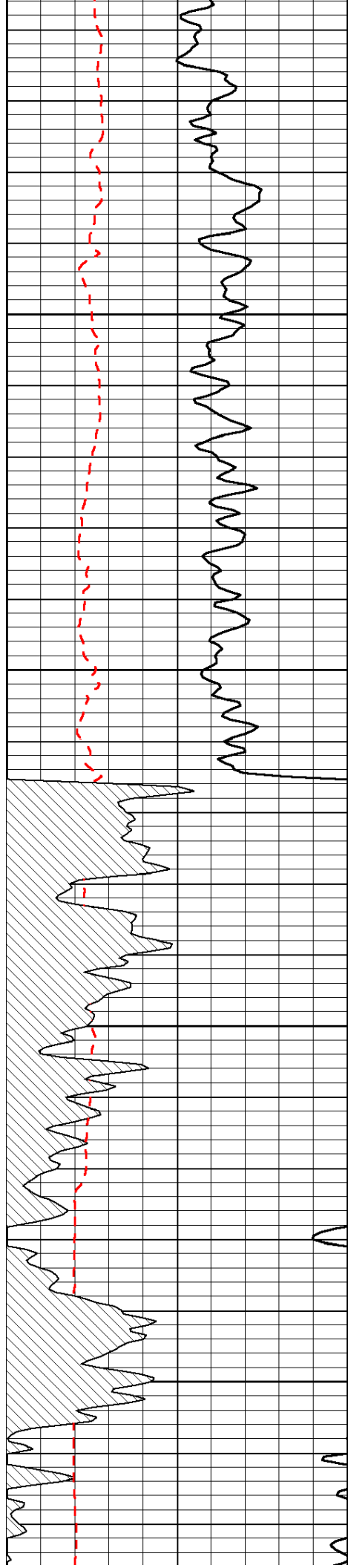
0	Gamma Ray	150	Sonic Int	140	Delta Time (usec/ft)	40
150	Gamma Ray	300	5	0	SPOR	-10
6	Caliper (GAPI)	16		15000	LTEN (lb)	0
						LSPD

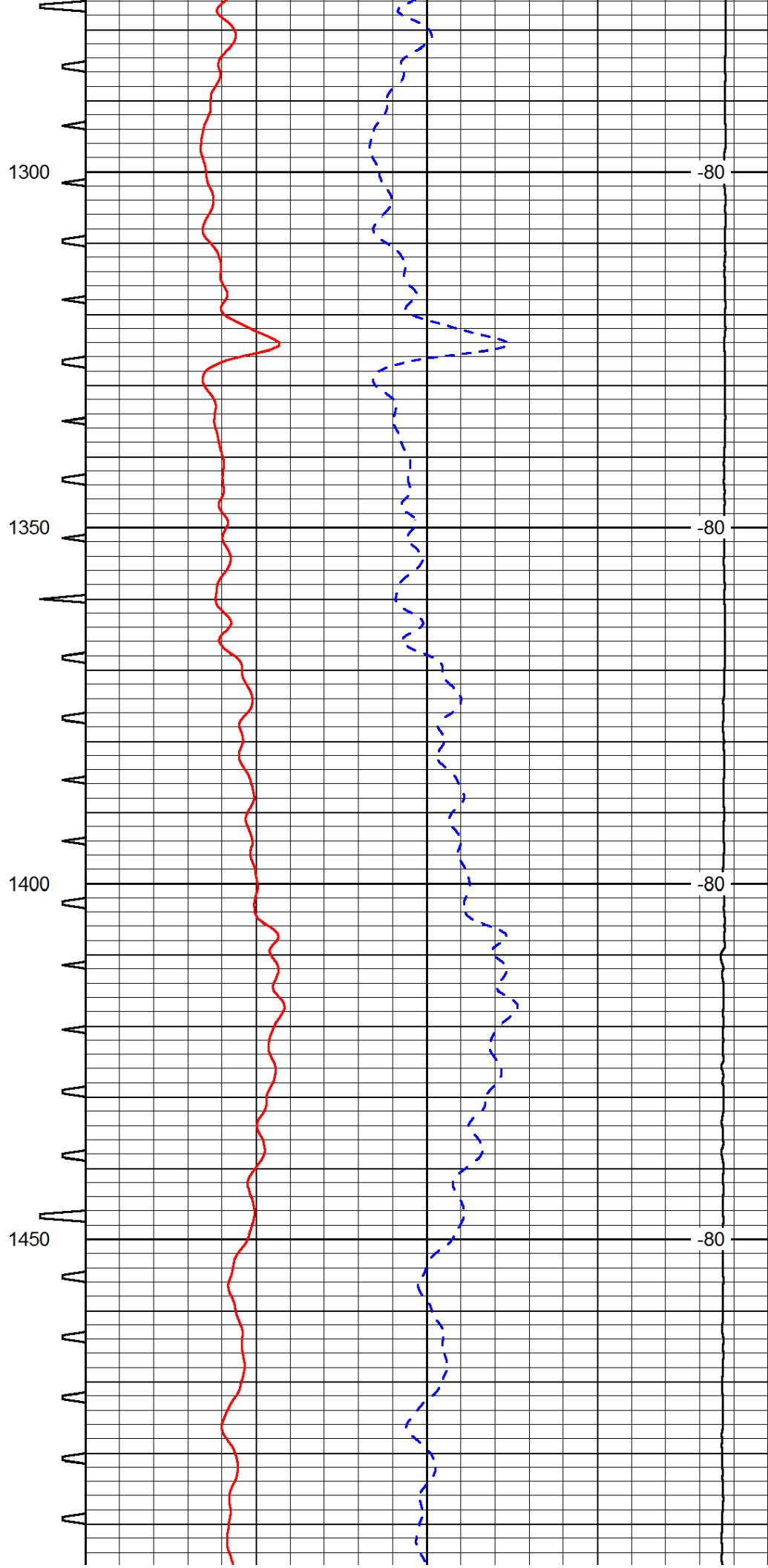
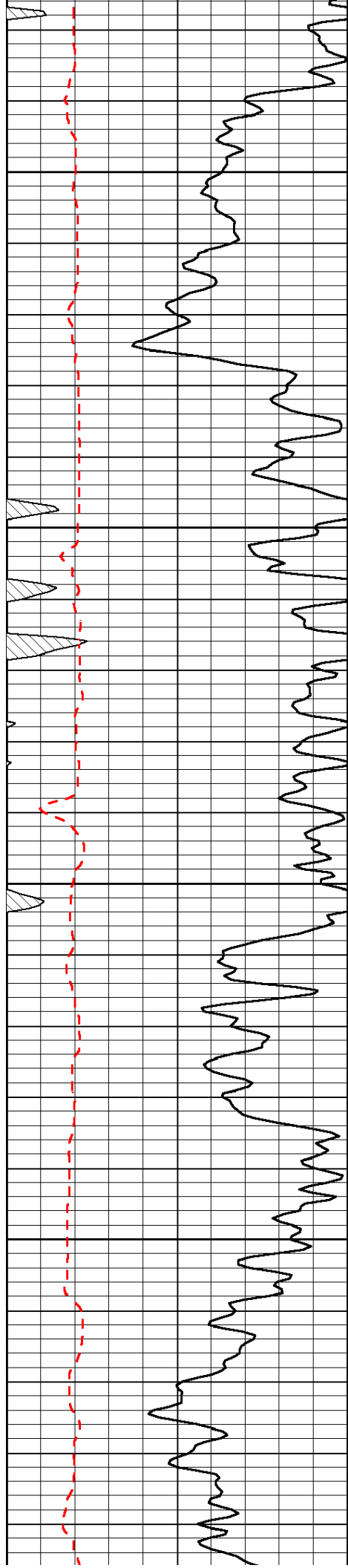


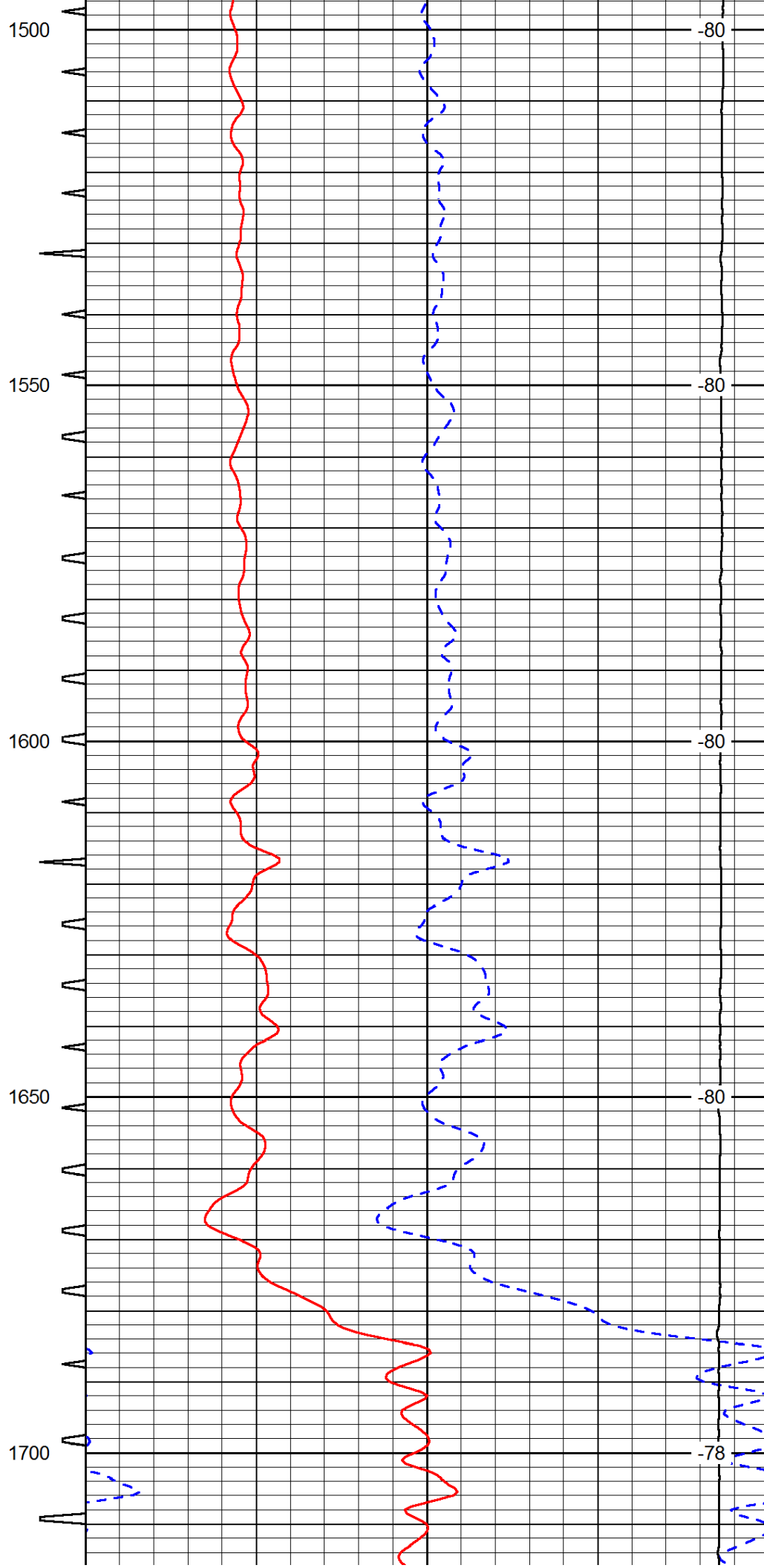
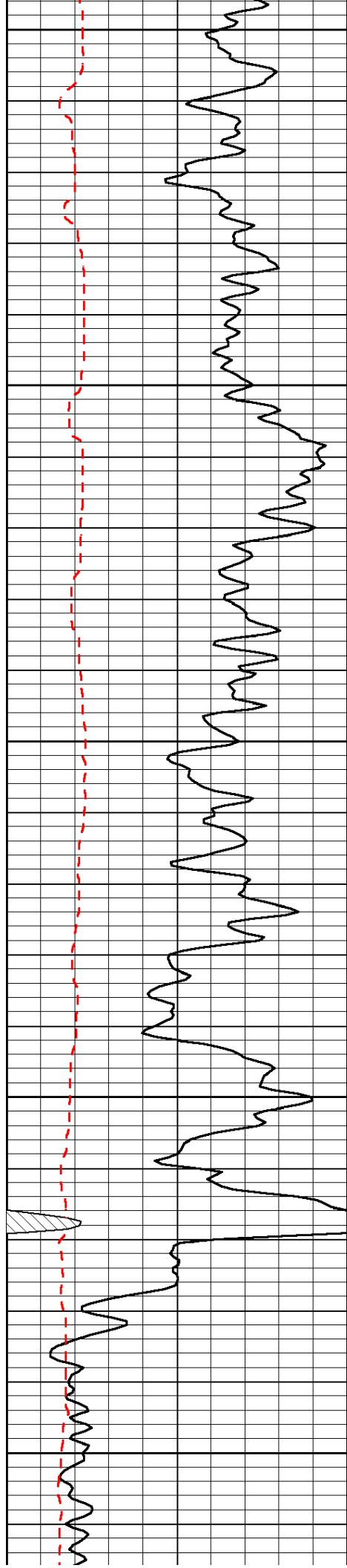


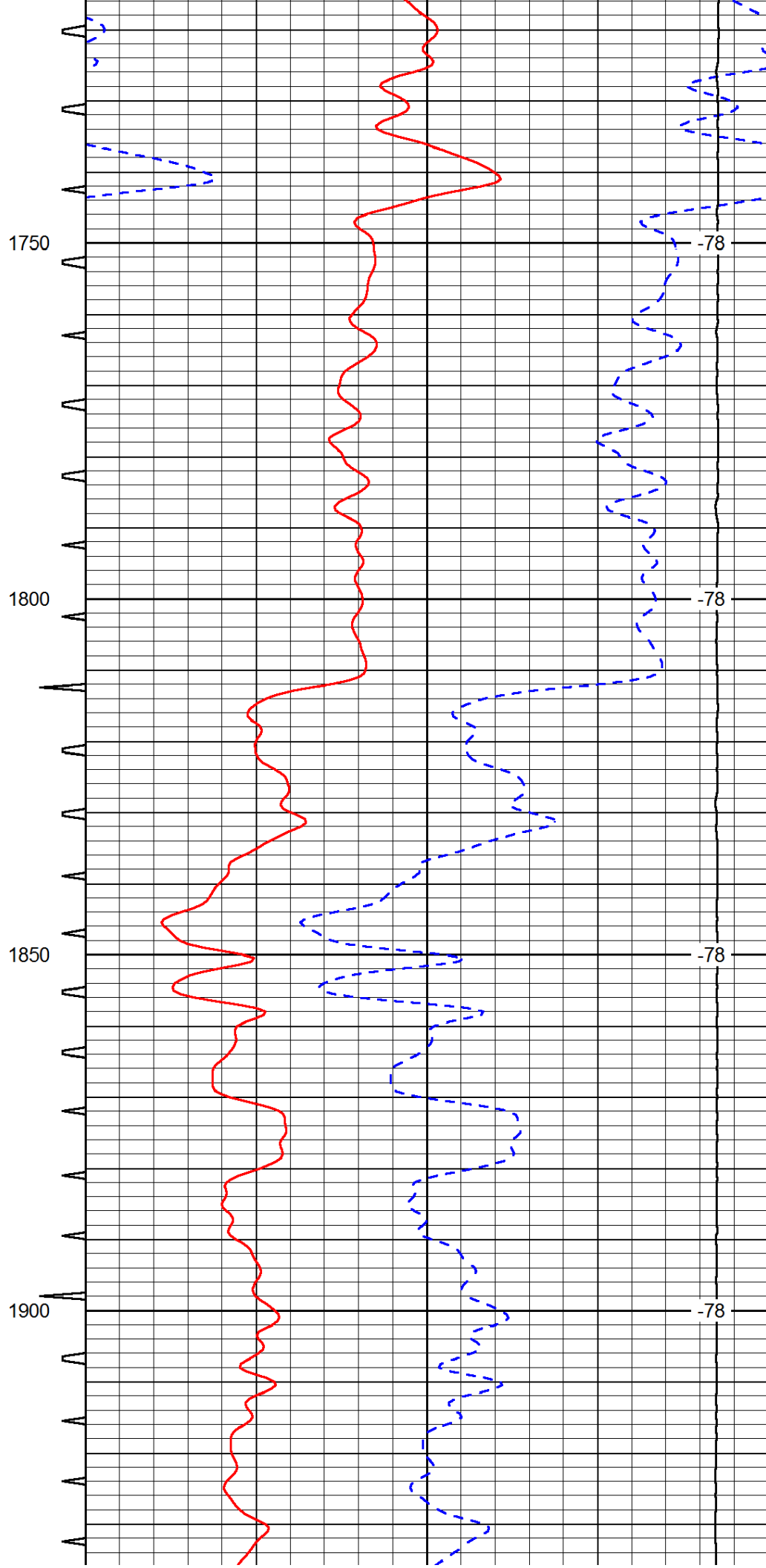
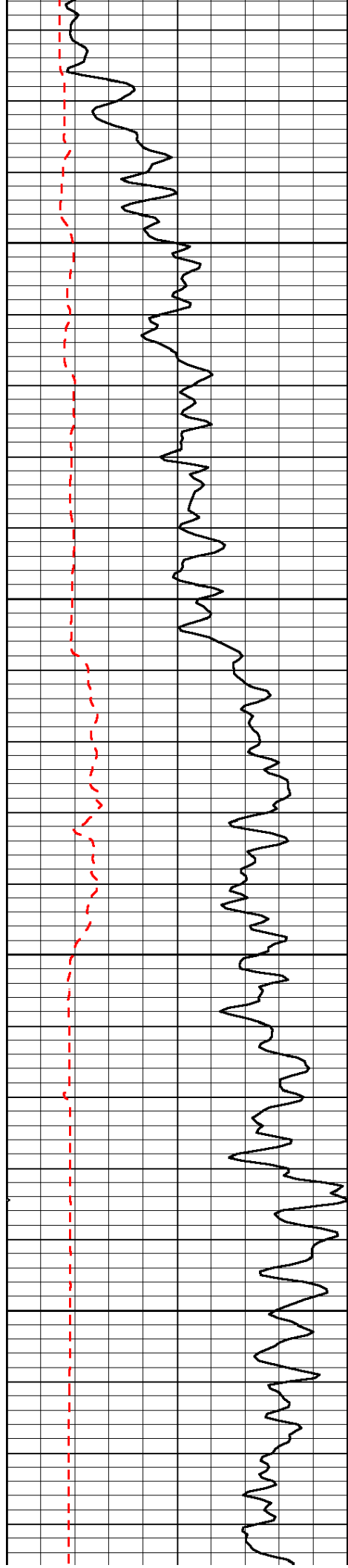


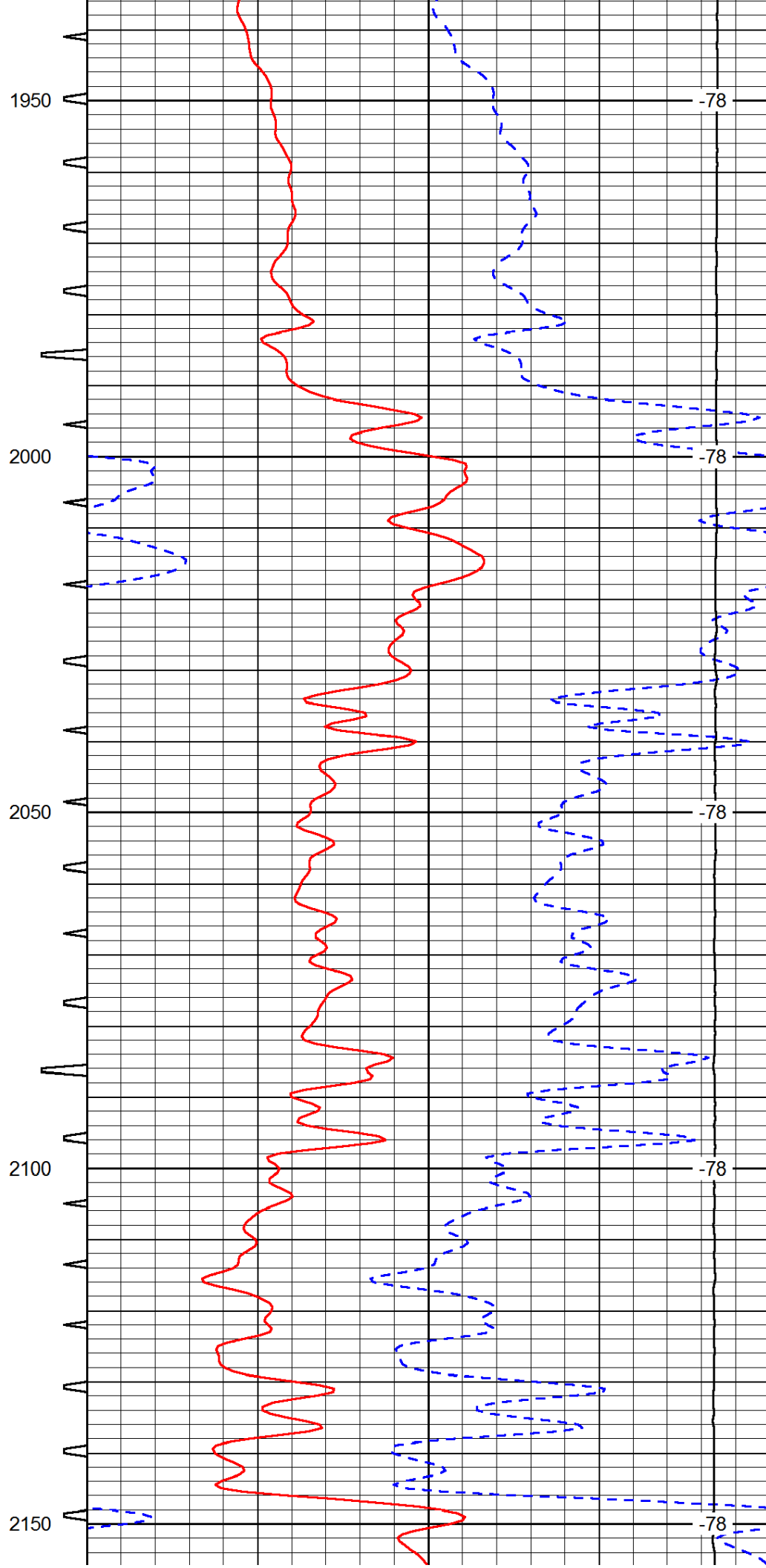
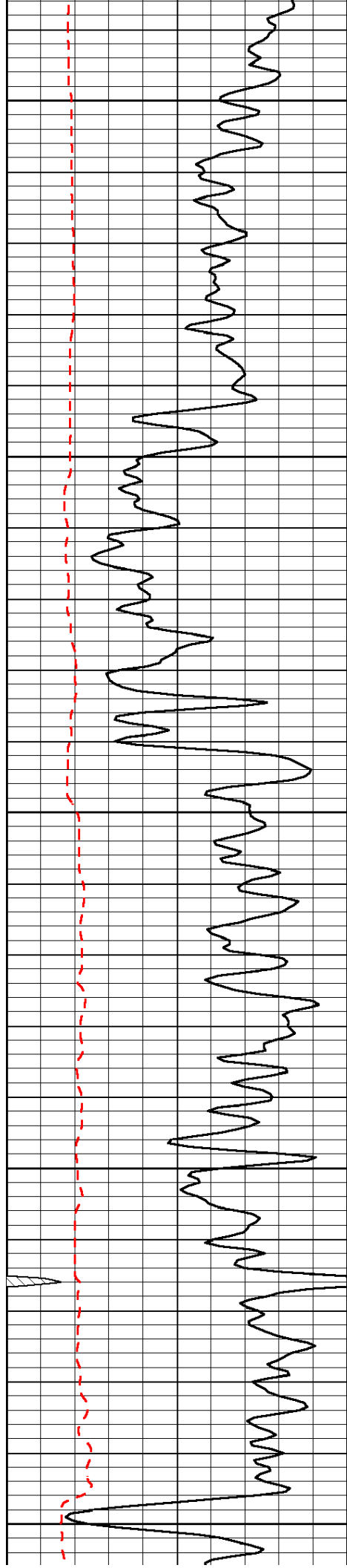


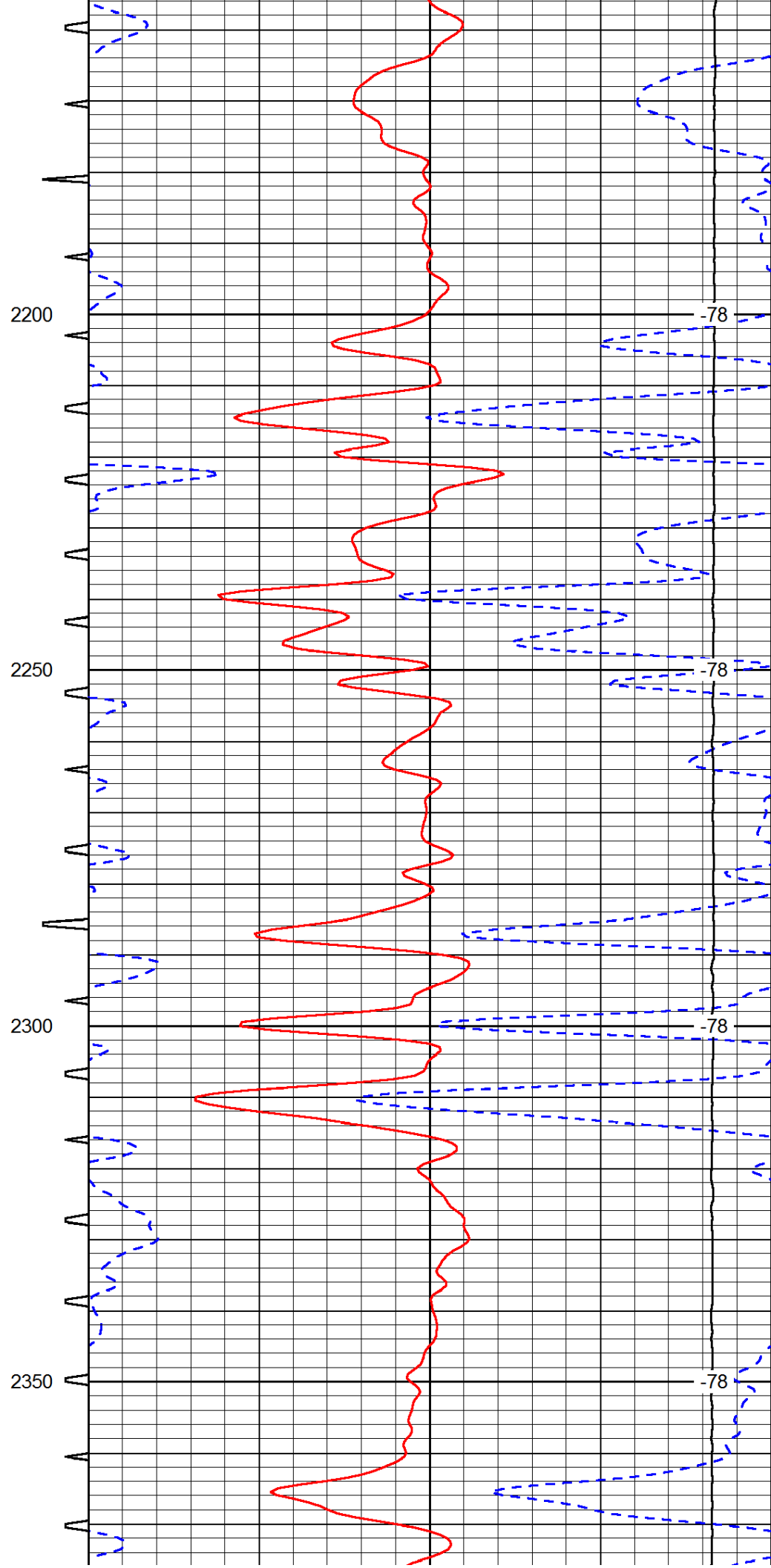
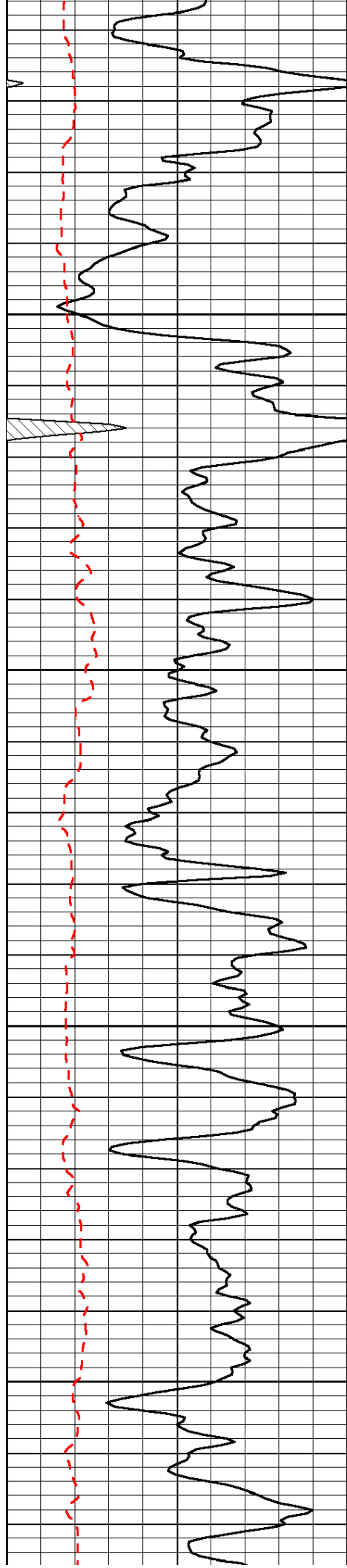


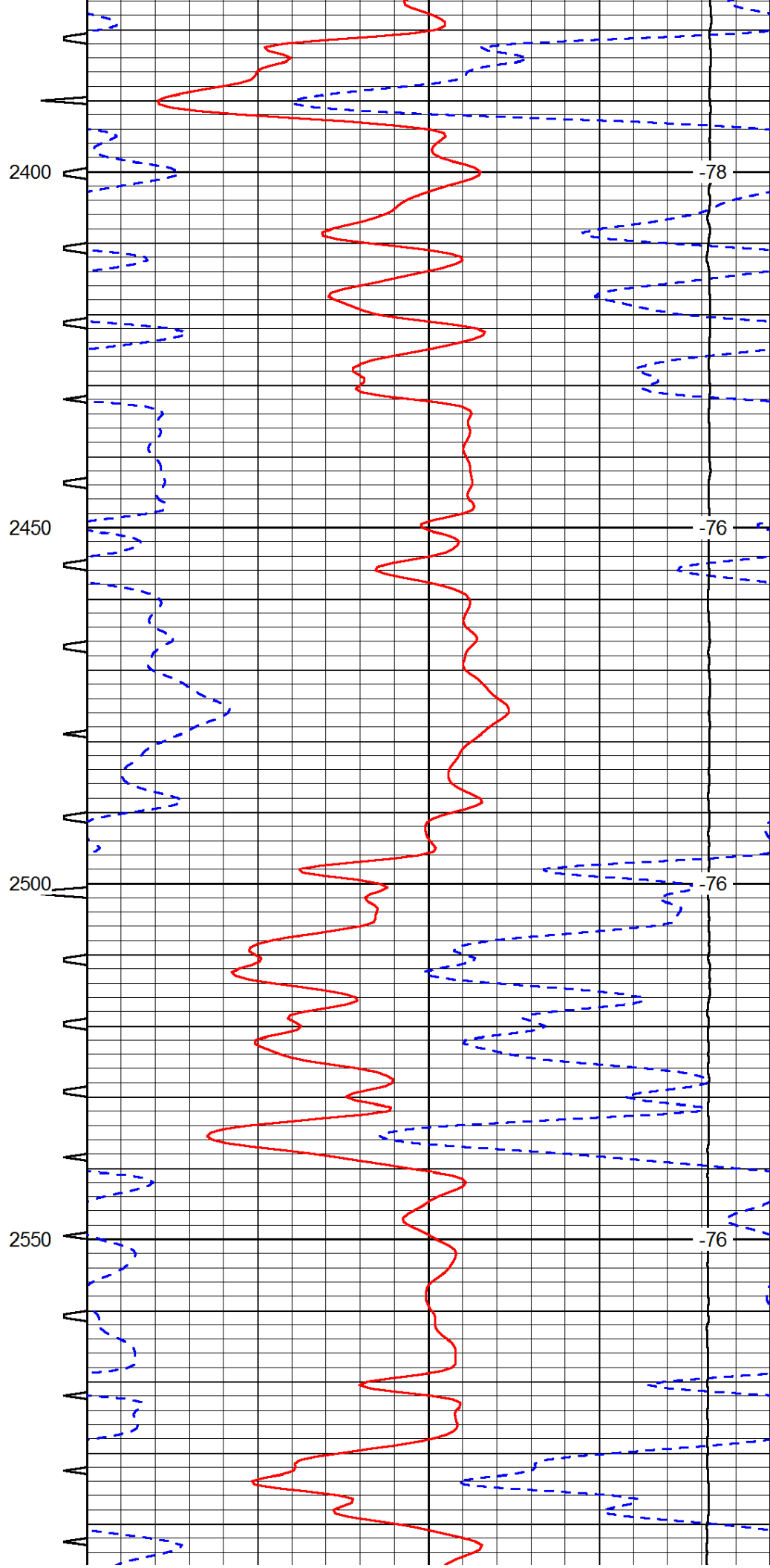
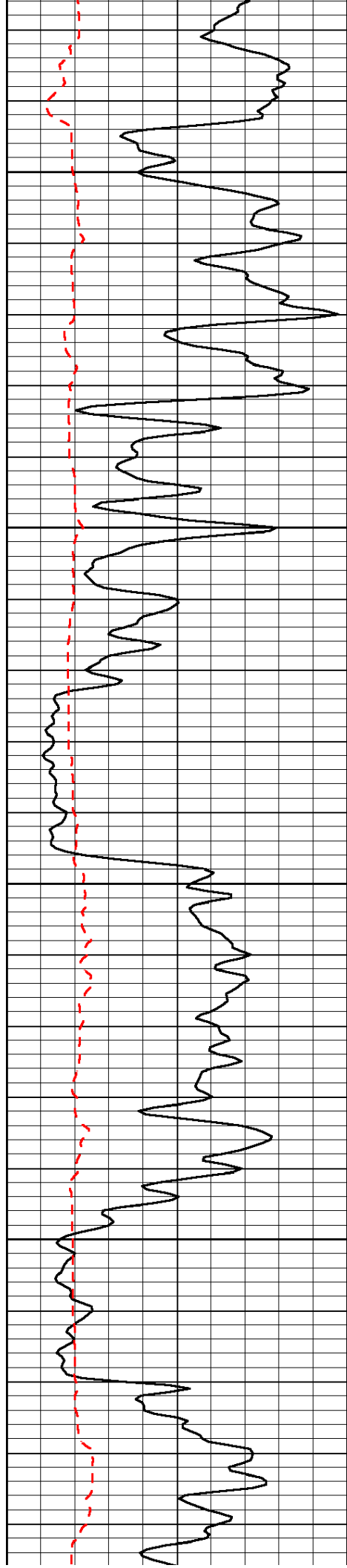


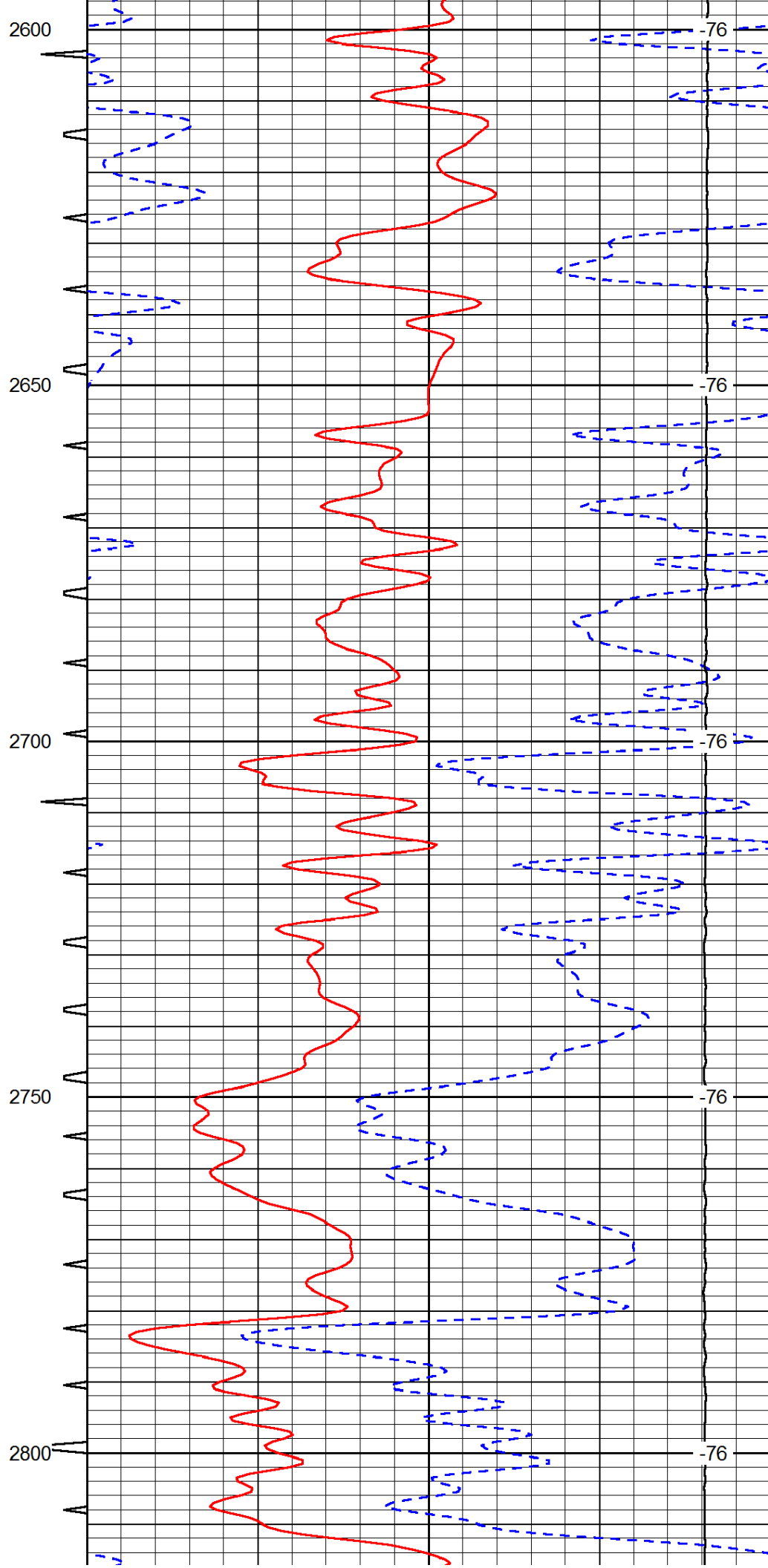
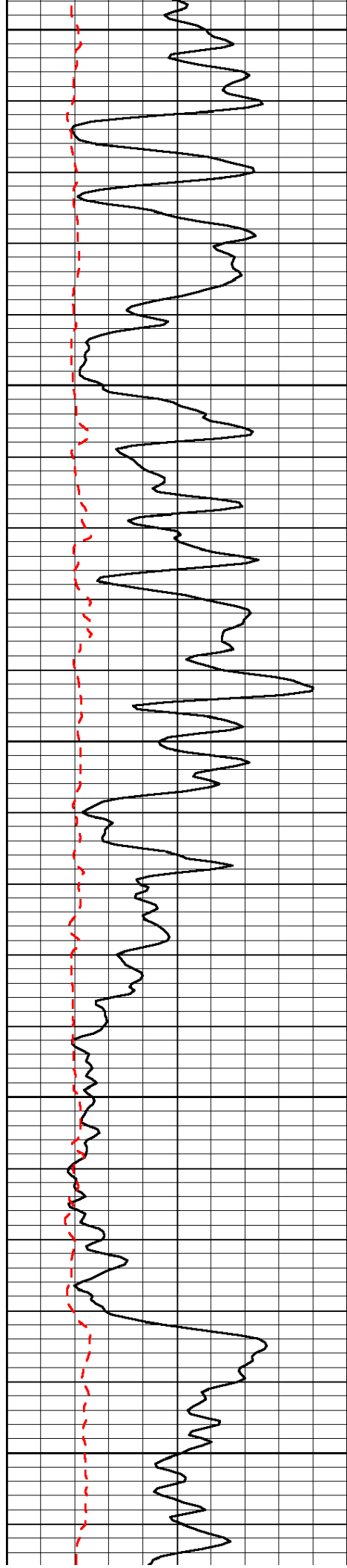


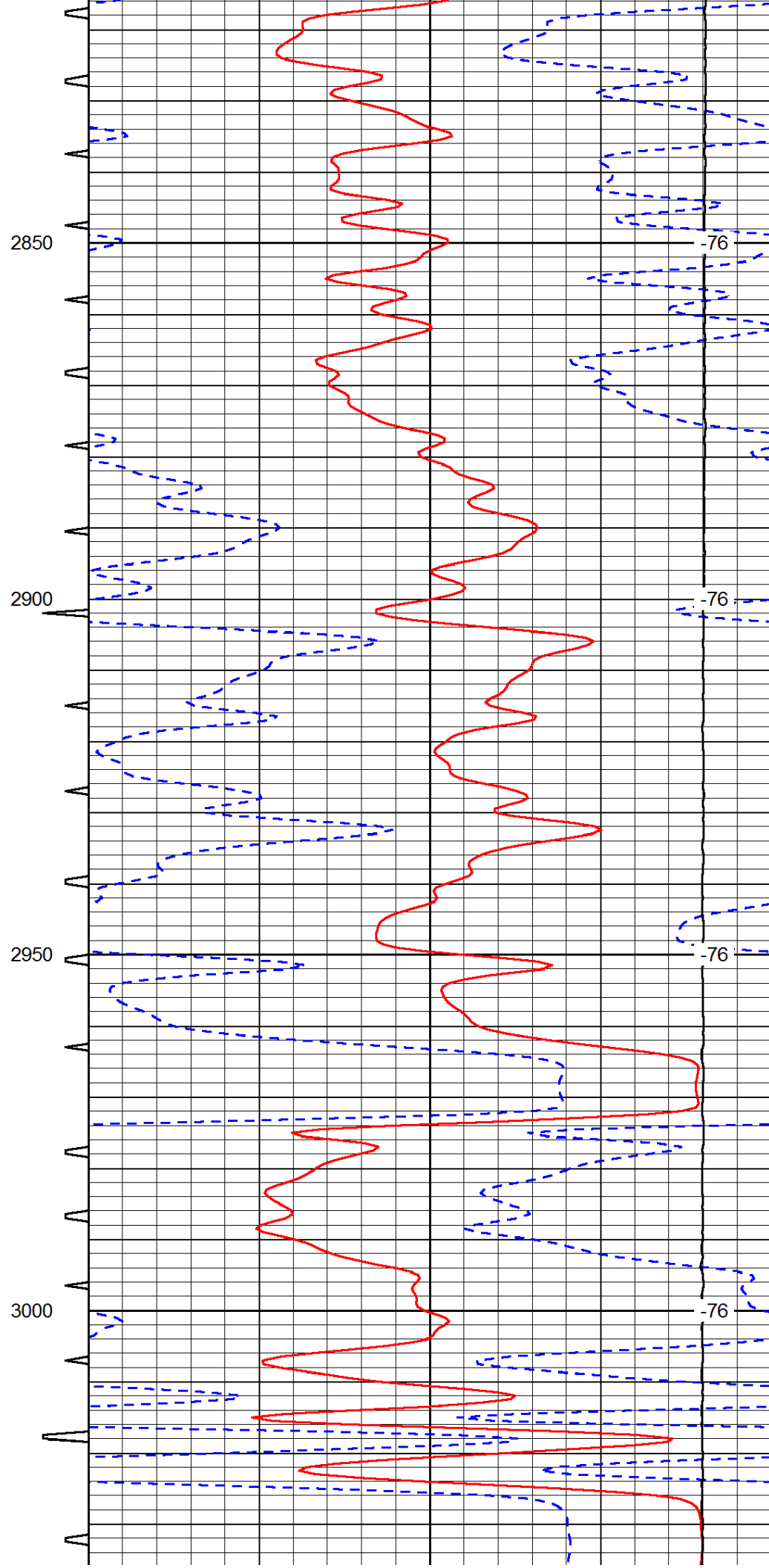
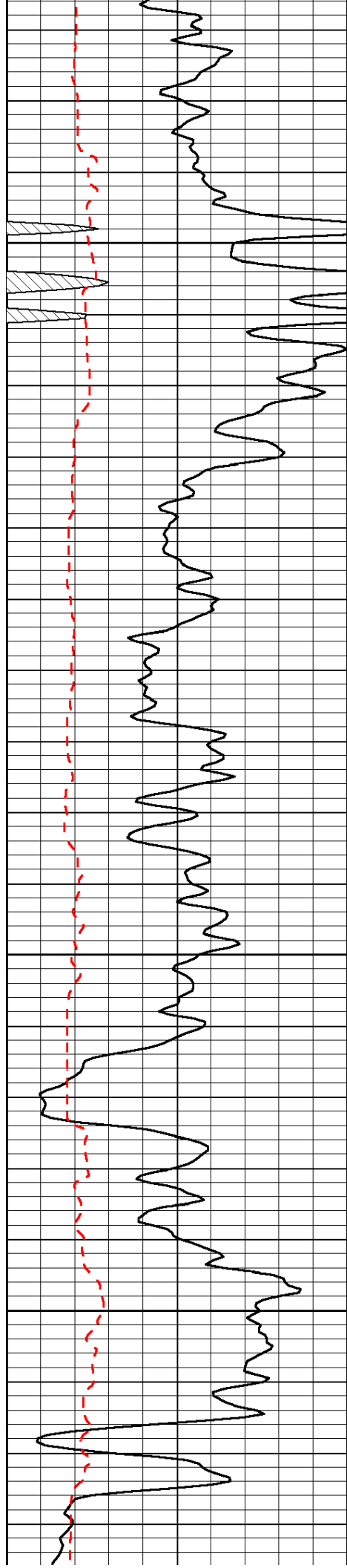


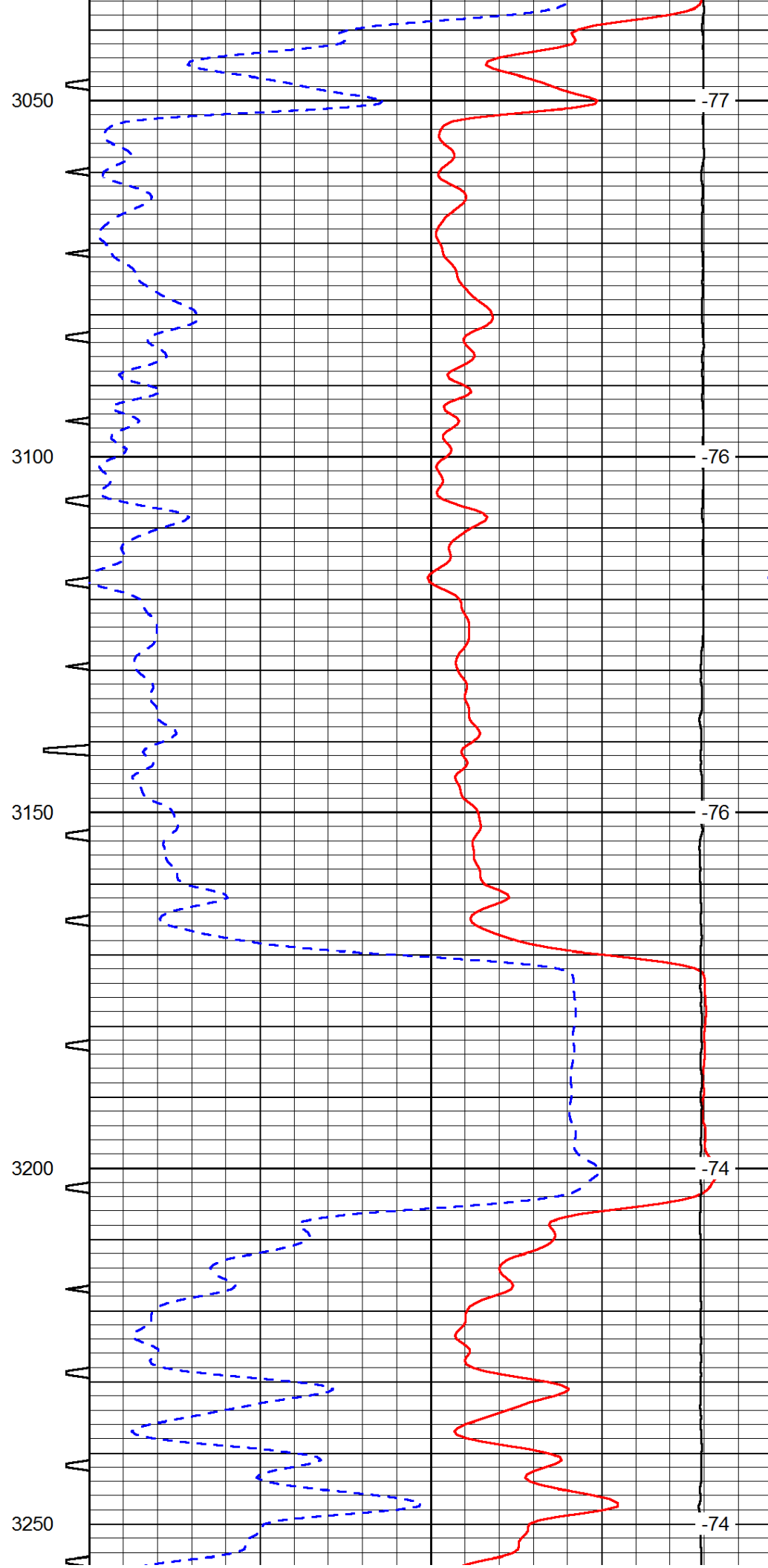
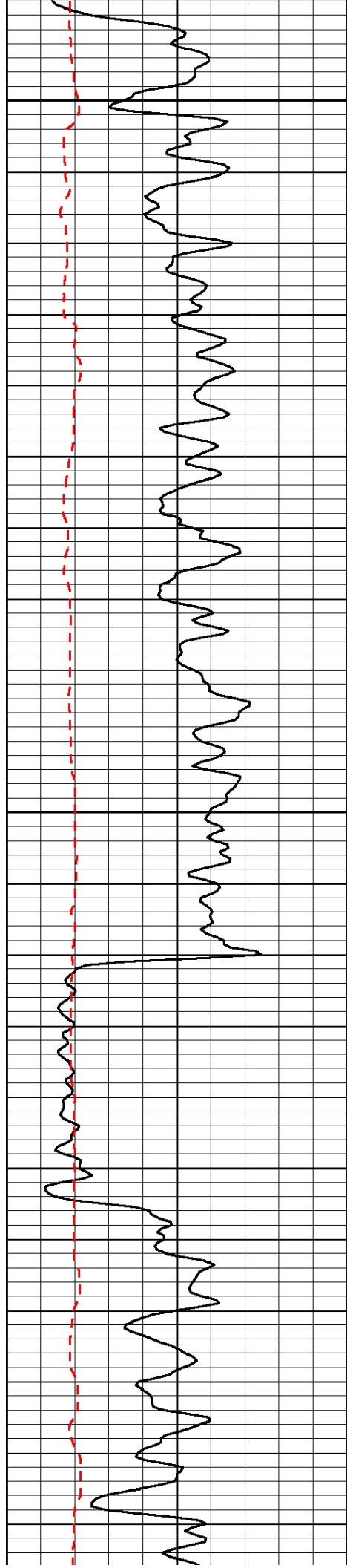


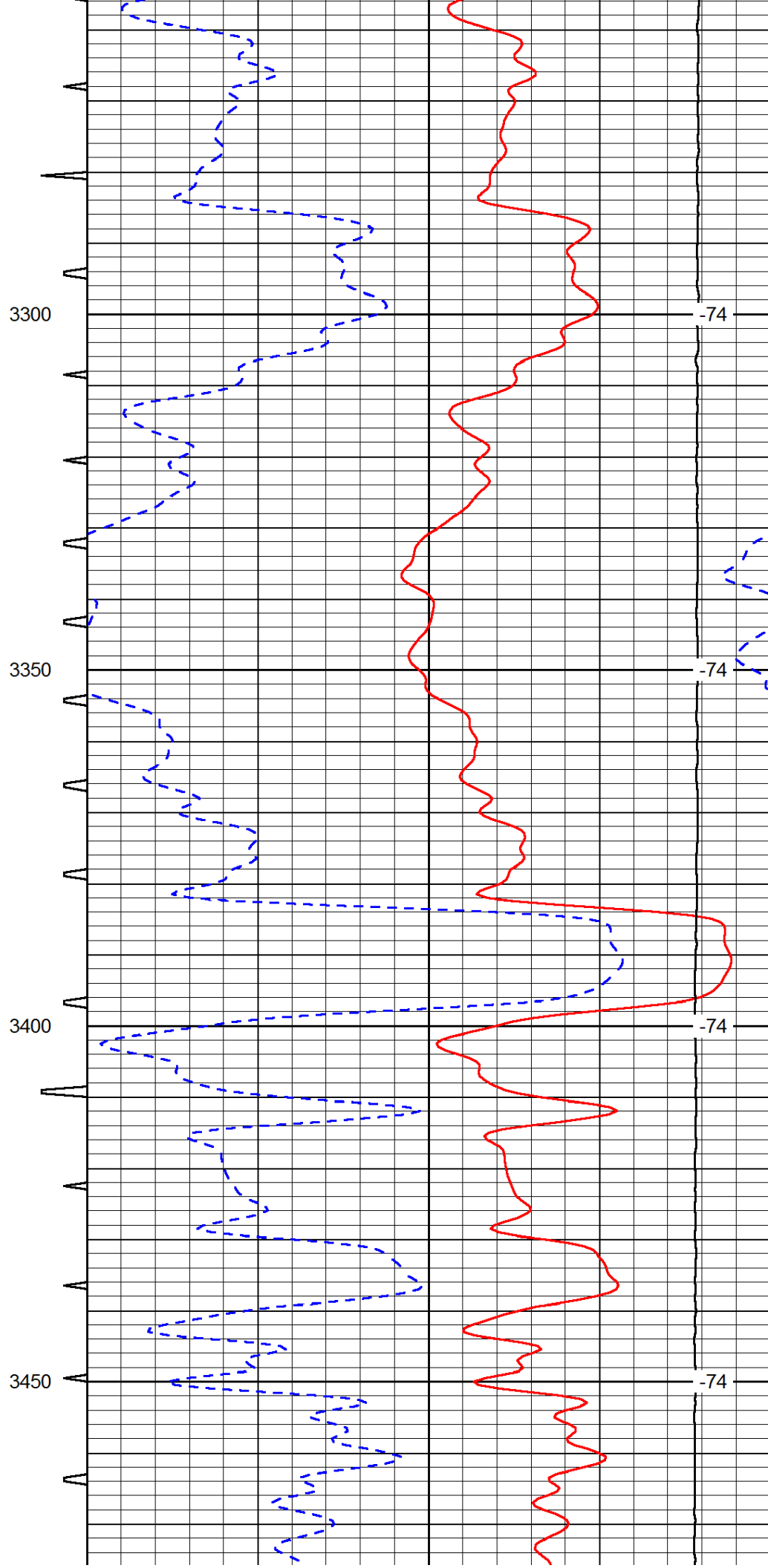
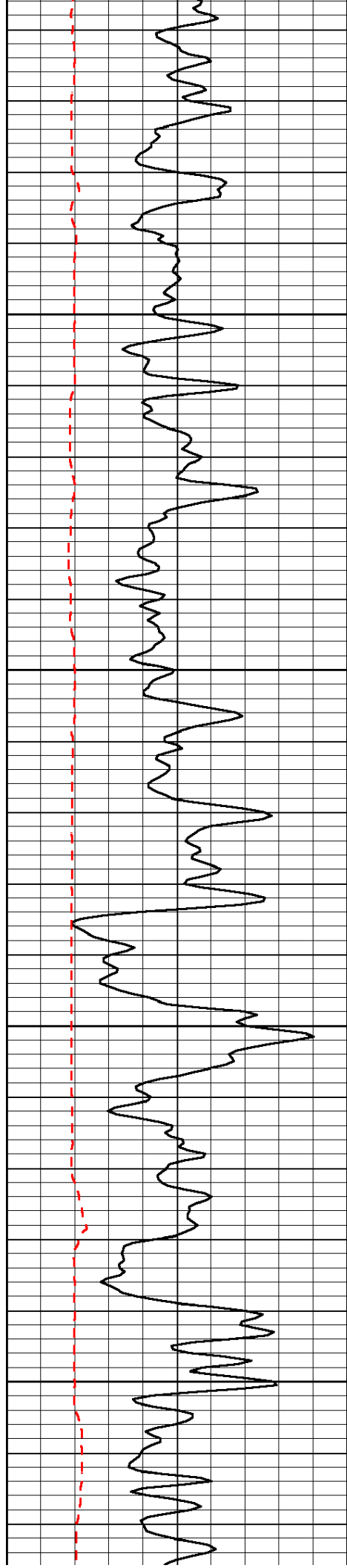


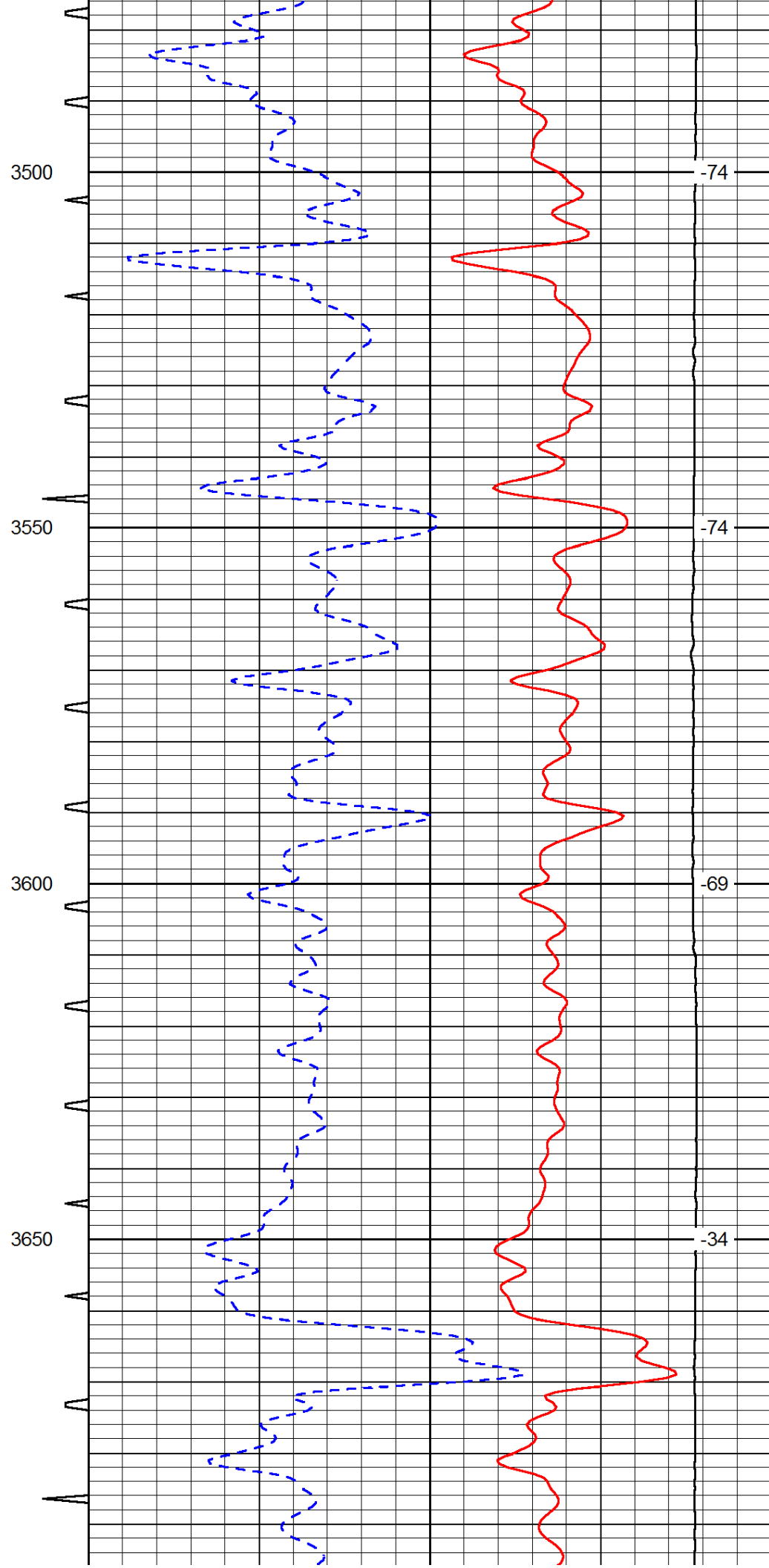
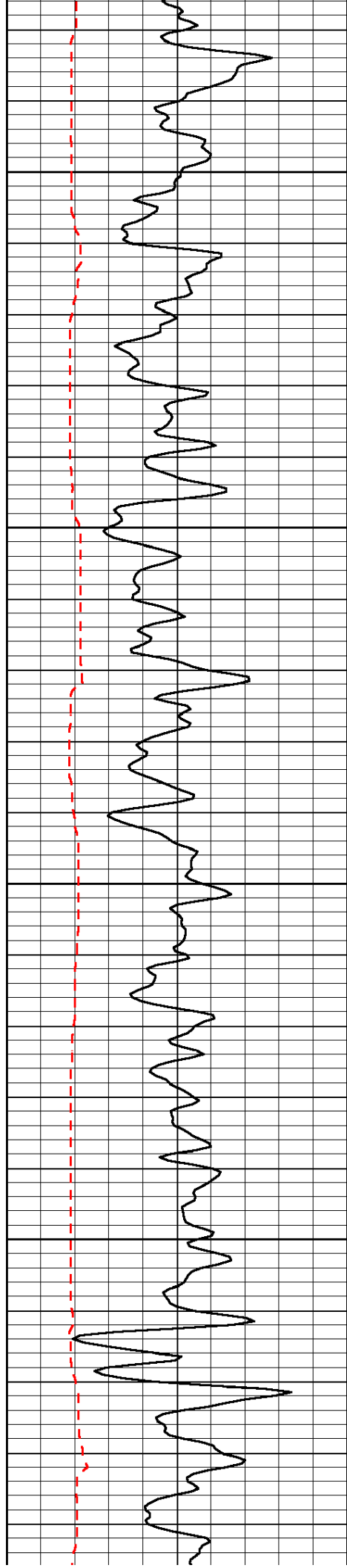


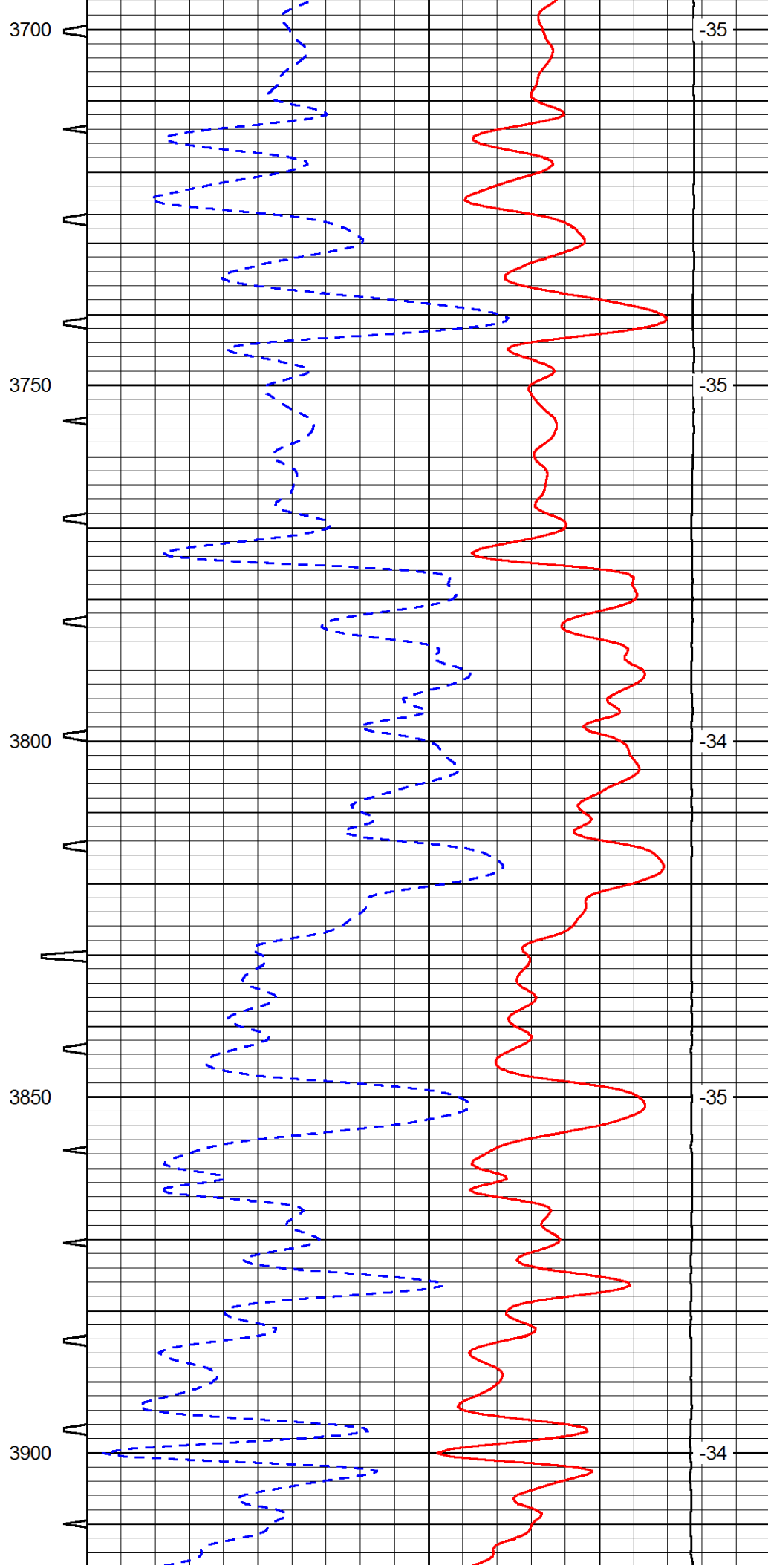
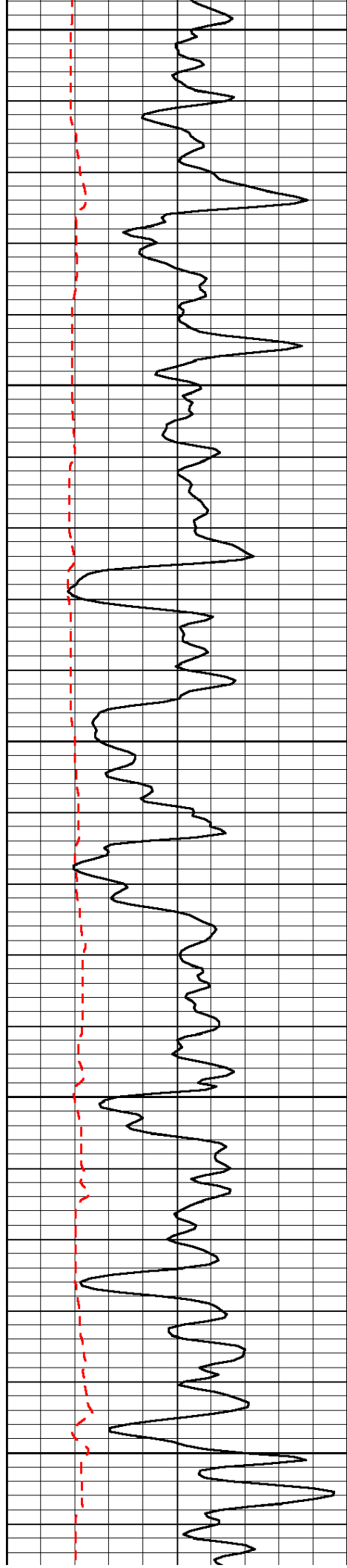


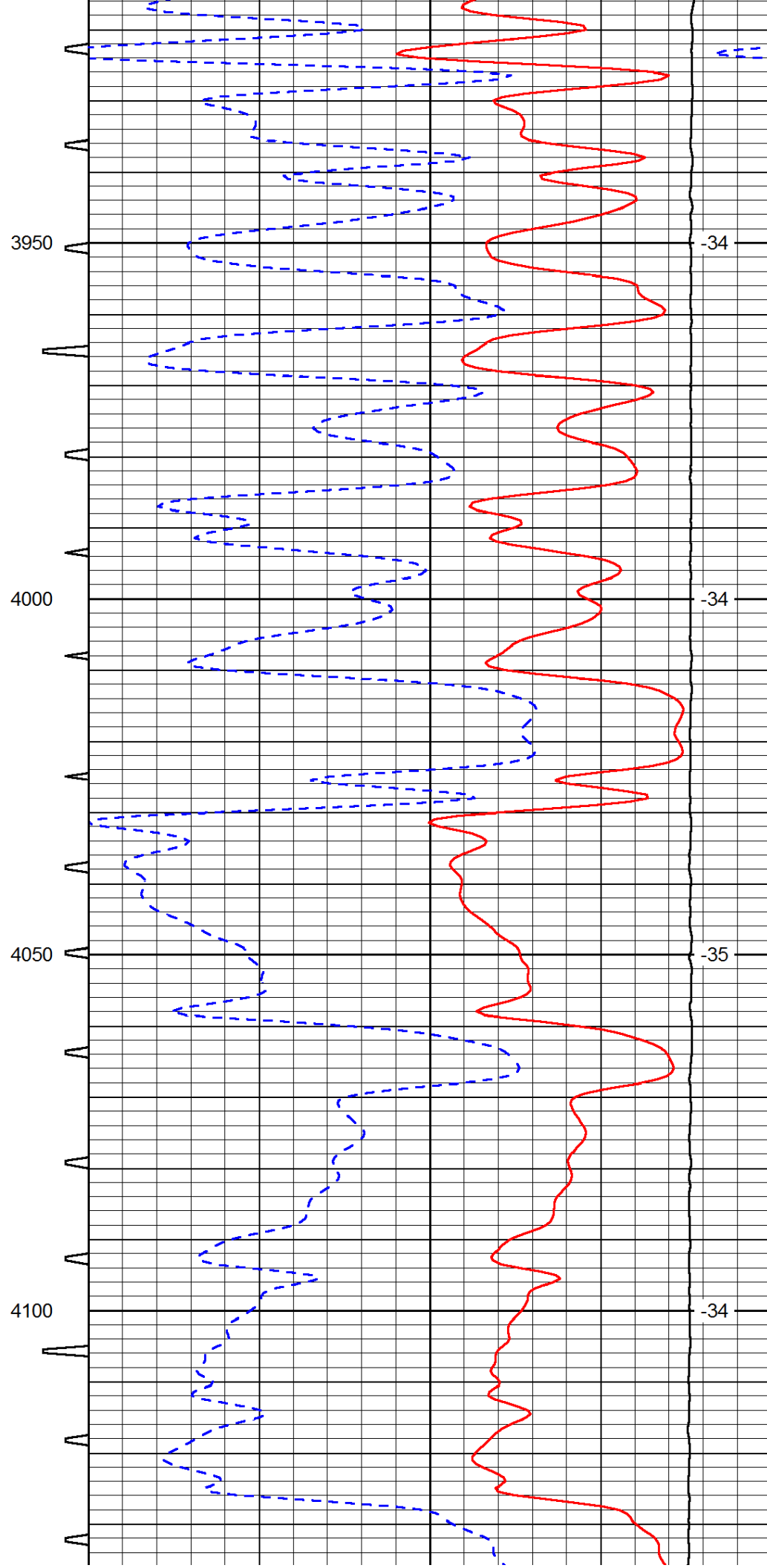
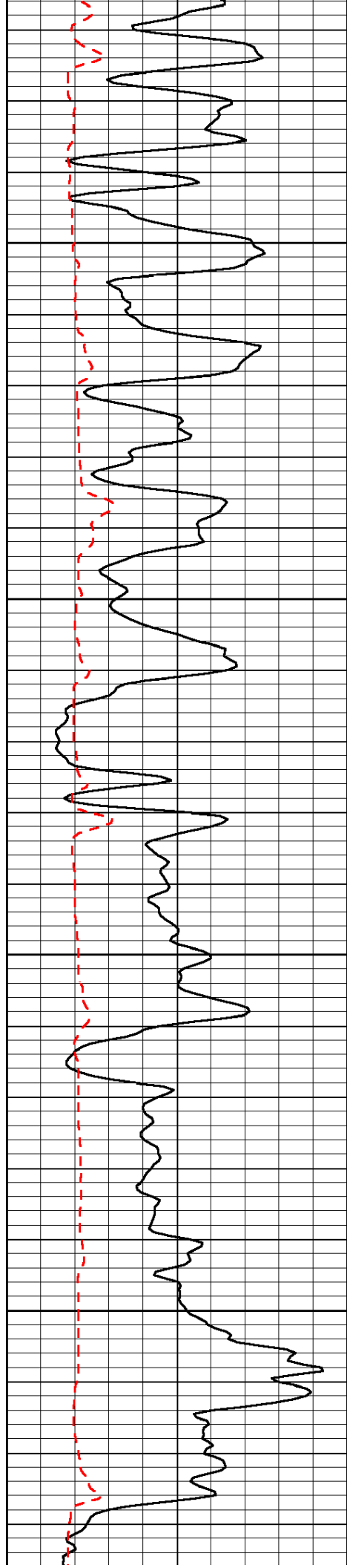


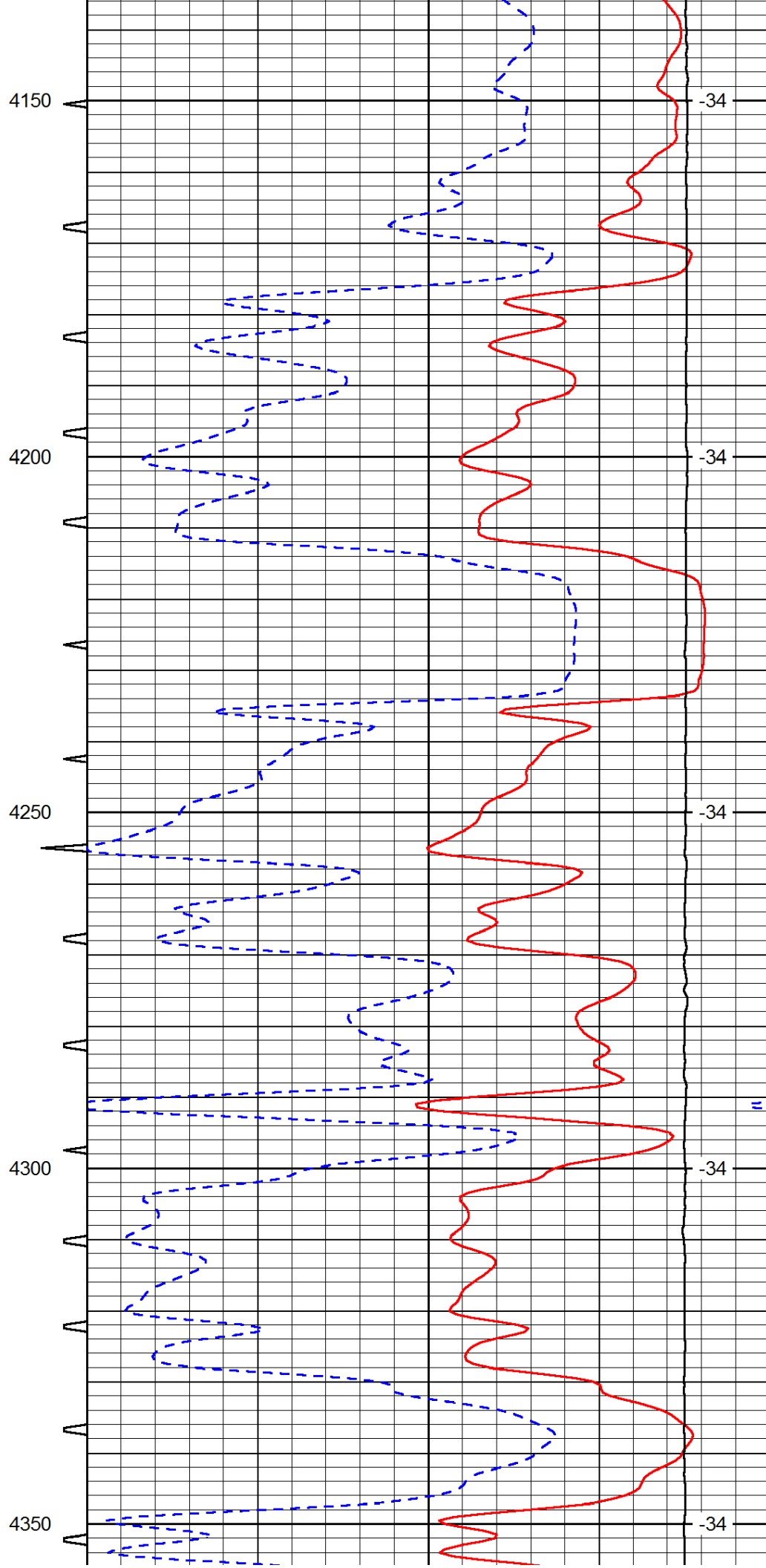
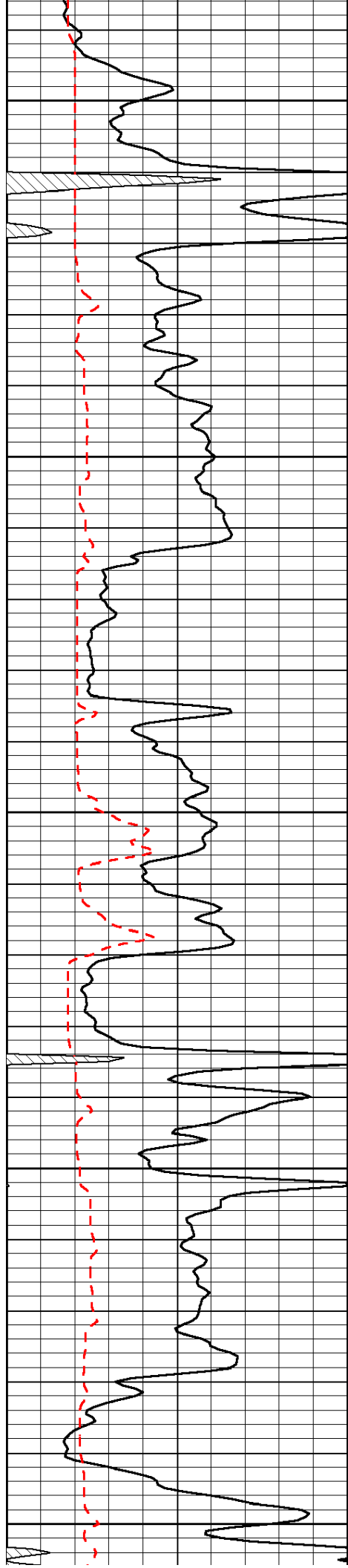


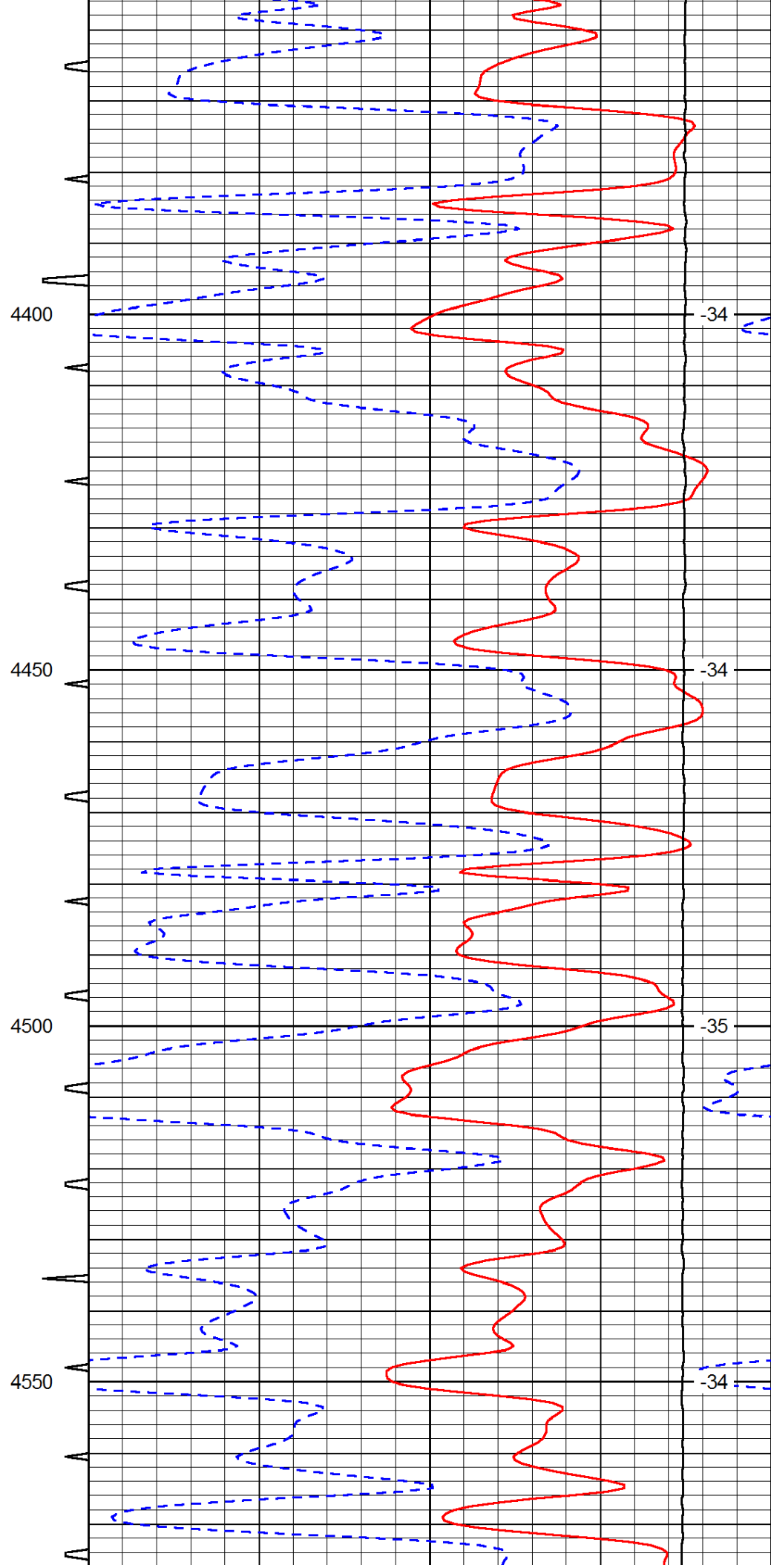
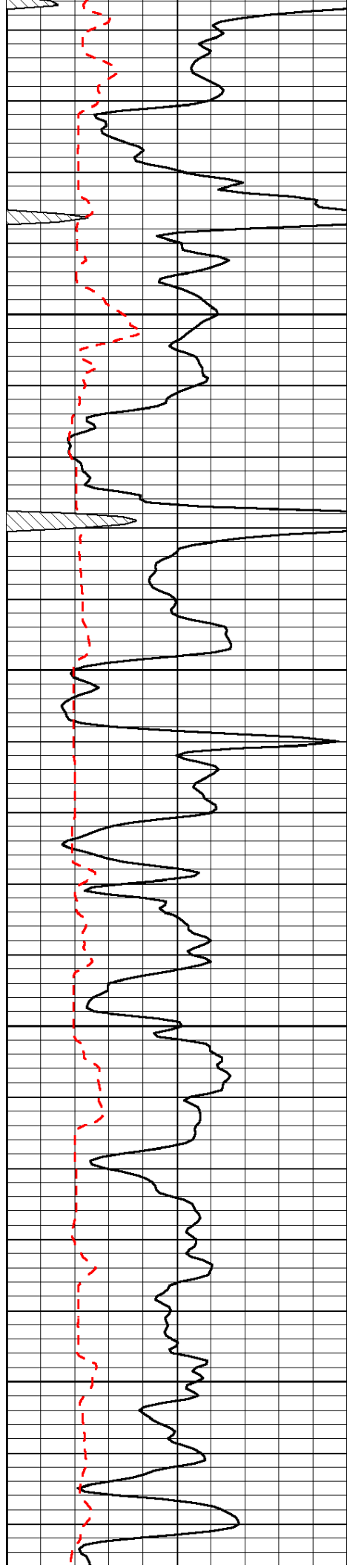


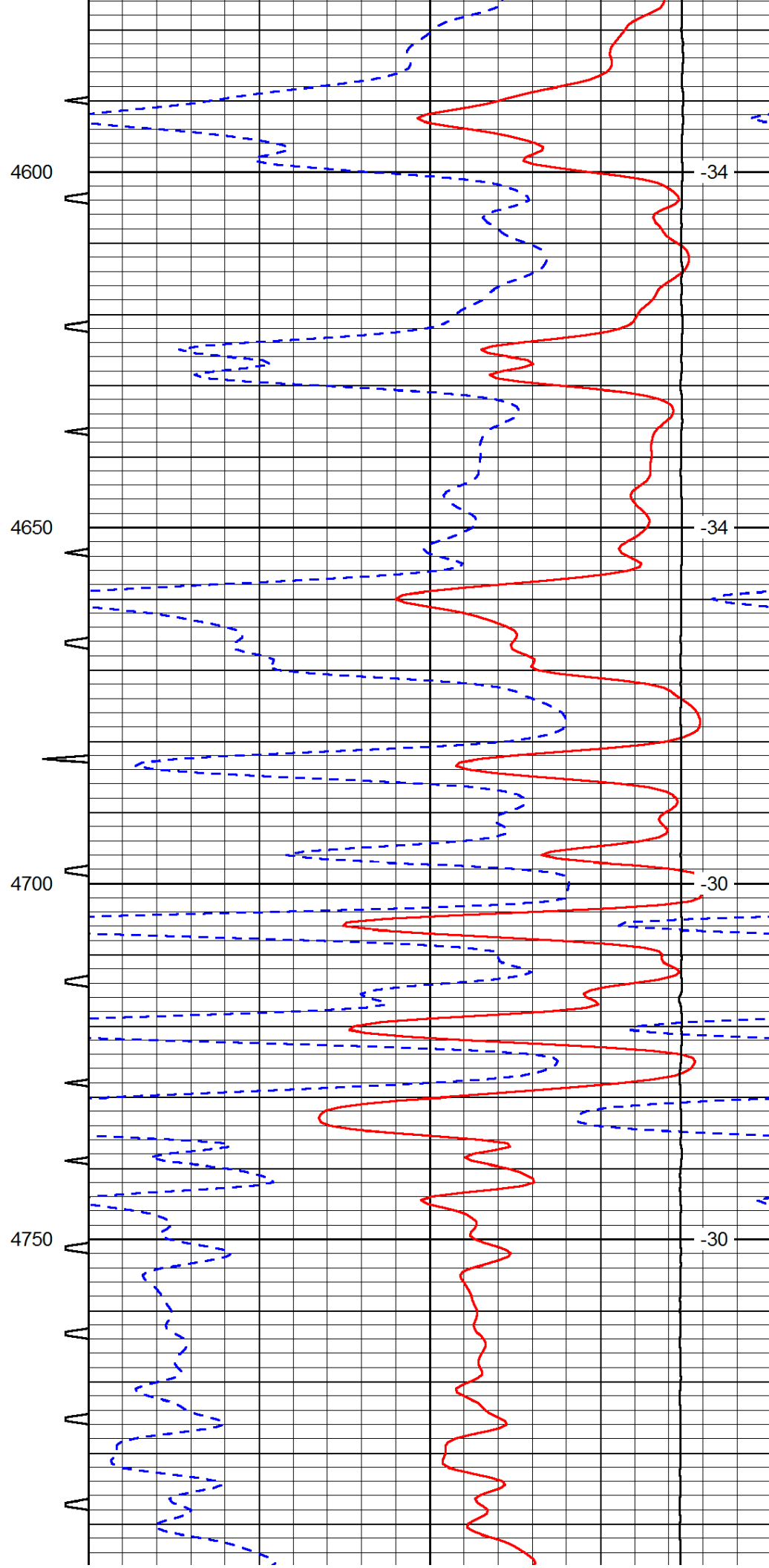
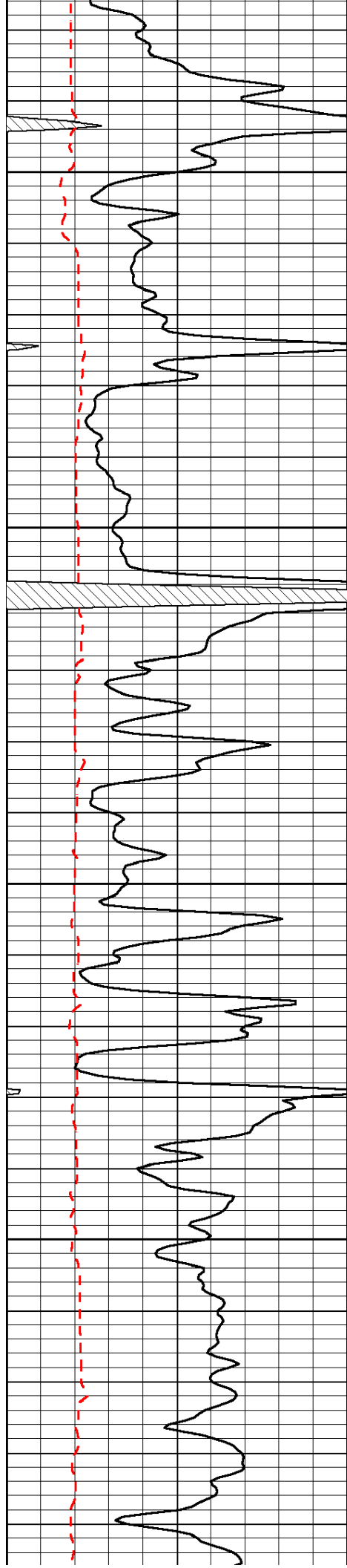


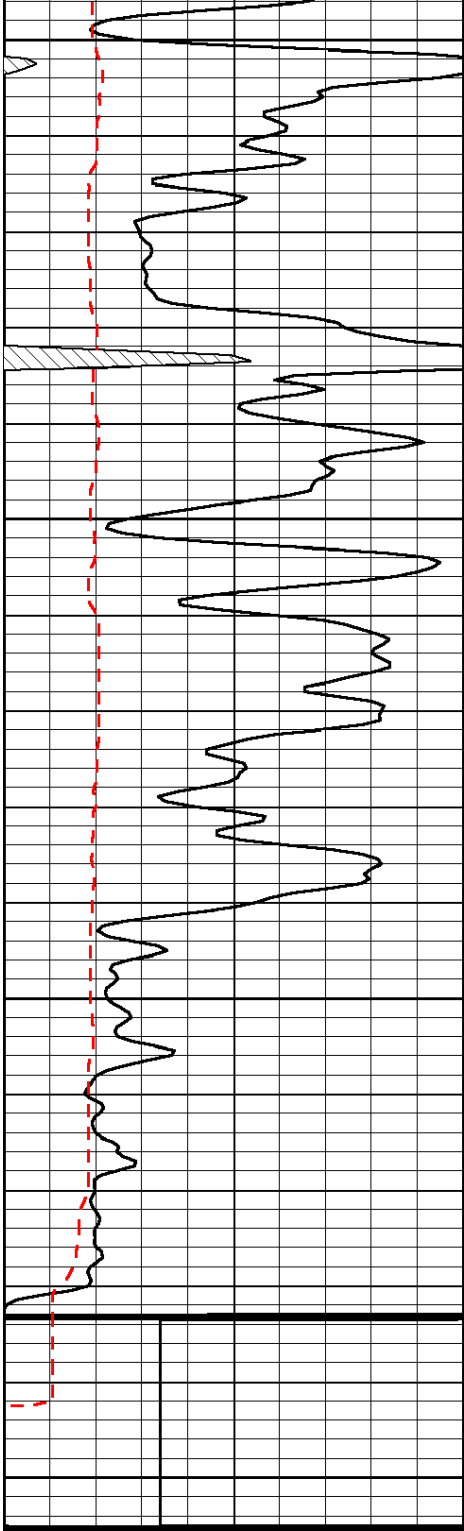






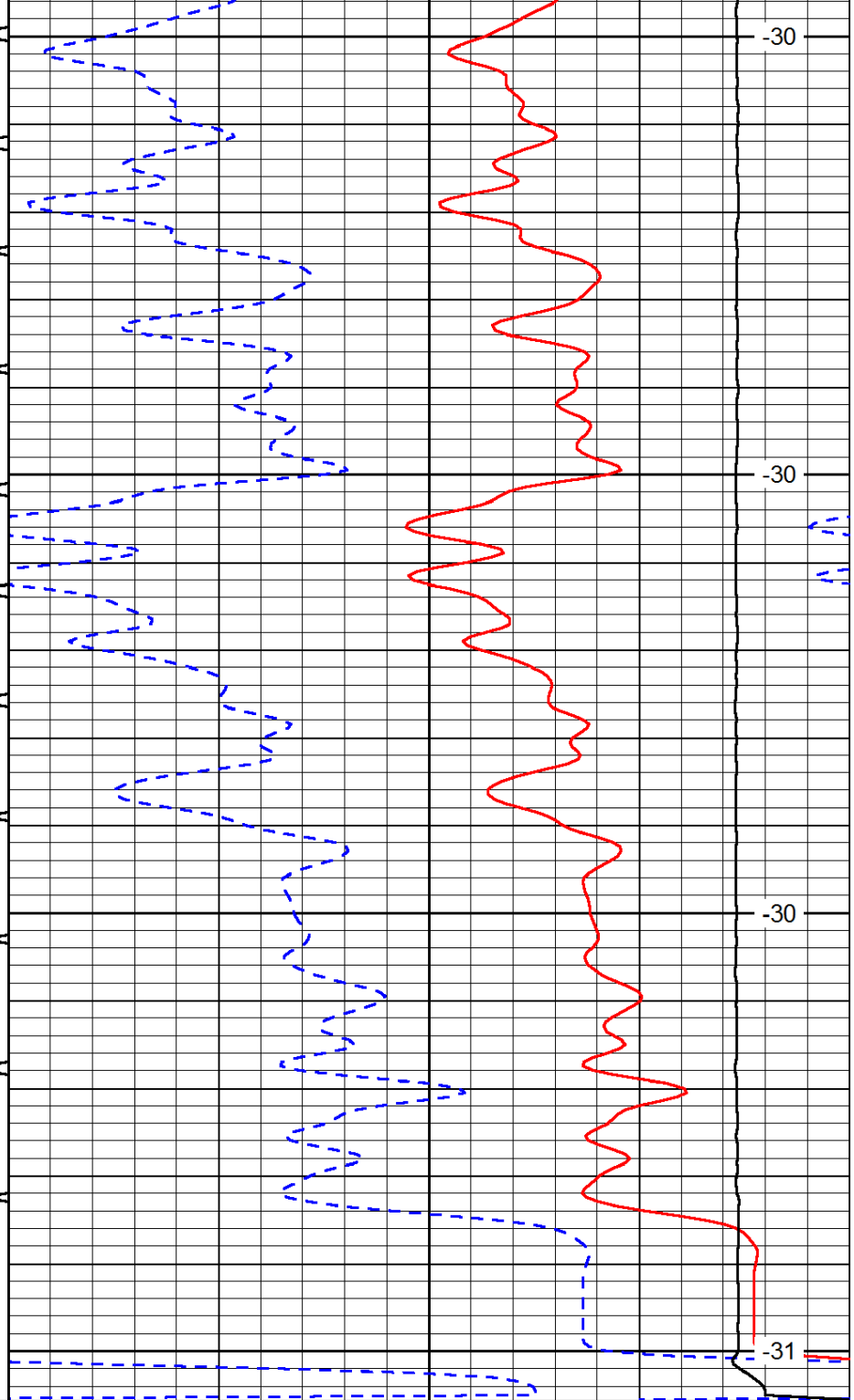






0	Gamma Ray	150
150	Gamma Ray	300
6	Caliper (GAPI)	16

Sonic Int	140
5	0



Delta Time (usec/ft)	40
SPOR	-10
LTEN (lb)	0

LSPD