



Borehole Compensated Sonic Log

DIGITAL LOG (785) 625-3858

API No.

15-163-23,813-00-00

Company Murfin Drilling Company, Inc.

Well M&A Unit No.1-32

Field

County Rooks State Kansas

Location 935' FNL & 2345' FEL

Sec: 32

Twp: 10S Rge: 18W

Location

Permanent Datum Ground Level Elevation 2043
Log Measured From Kelly Bushing 5 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Other Services
CNL/CDL
MEL/DIL

Elevation
K.B. 2048
D.F.
G.L. 2043

Date

7/13/2009

Run Number

Two

Type Log

BHC Sonic

Depth Driller

3730

Depth Logger

3726

Bottom Logged Interval

3715

Top Logged Interval

200

Type Fluid In Hole

Chemical

Salinity, PPM CL

6,900

Density

9.1

Level

Full

Max. Rec. Temp. F

115

Operating Rig Time

4 Hours

Equipment -- Location

17 Hays

Recorded By

C. Desaire

Witnessed By

Rocky Milford

Borehole Record

Casing Record

Run No

Bit

From

To

Size

Wgt.

To

1

12.25

00

218

8.625

24#

00

2

7.875

218

3730

<<< 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.

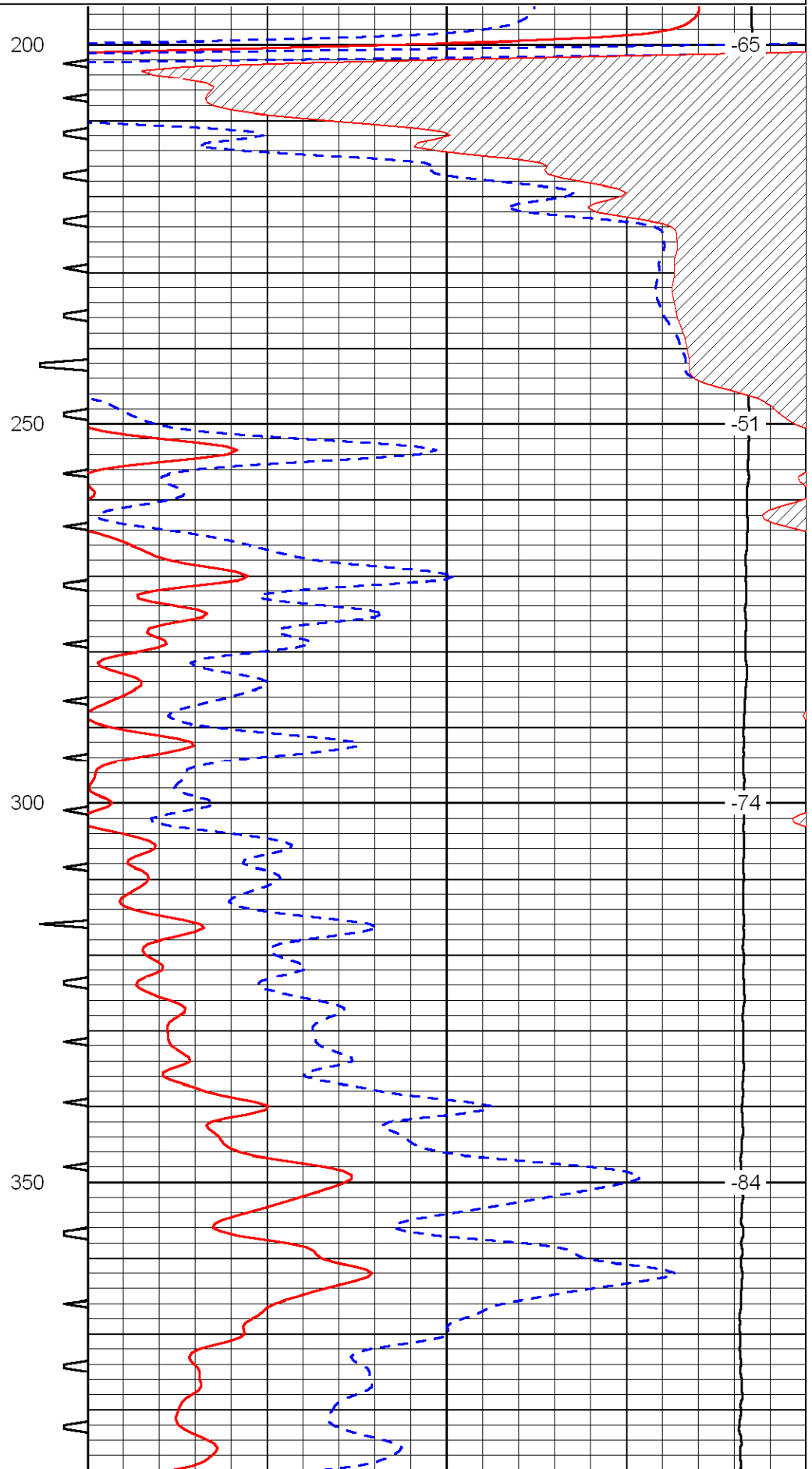
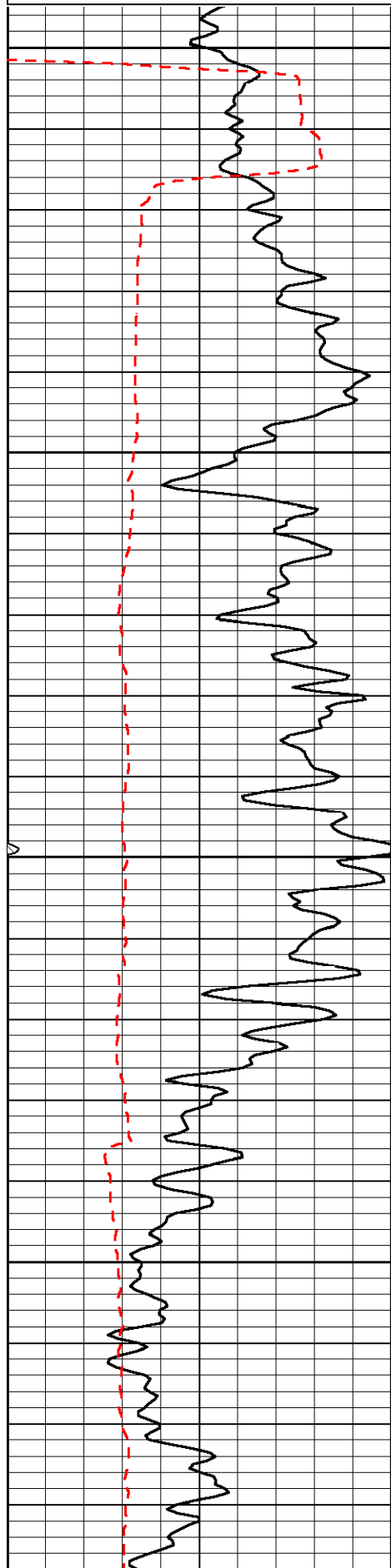
Comments

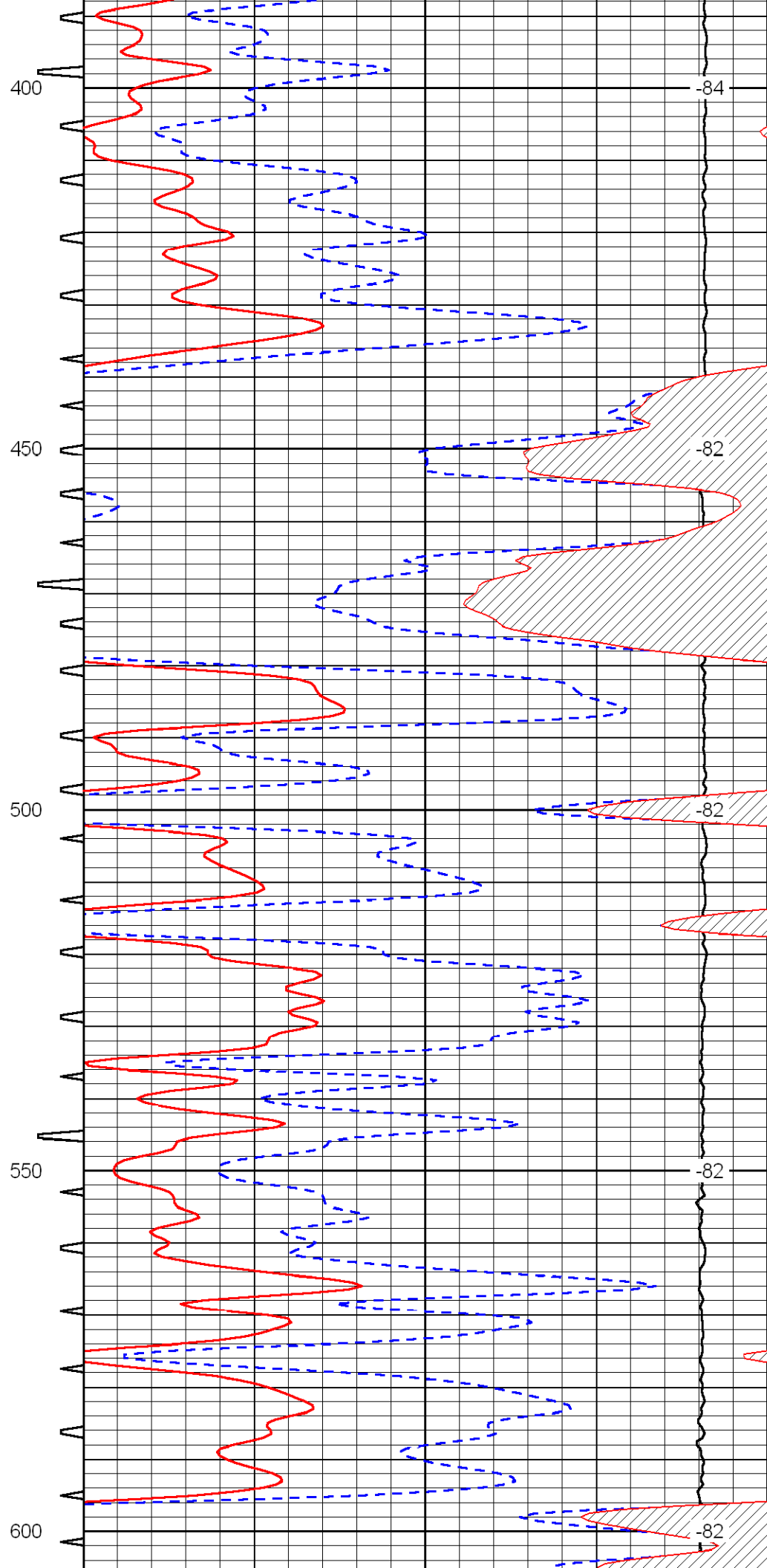
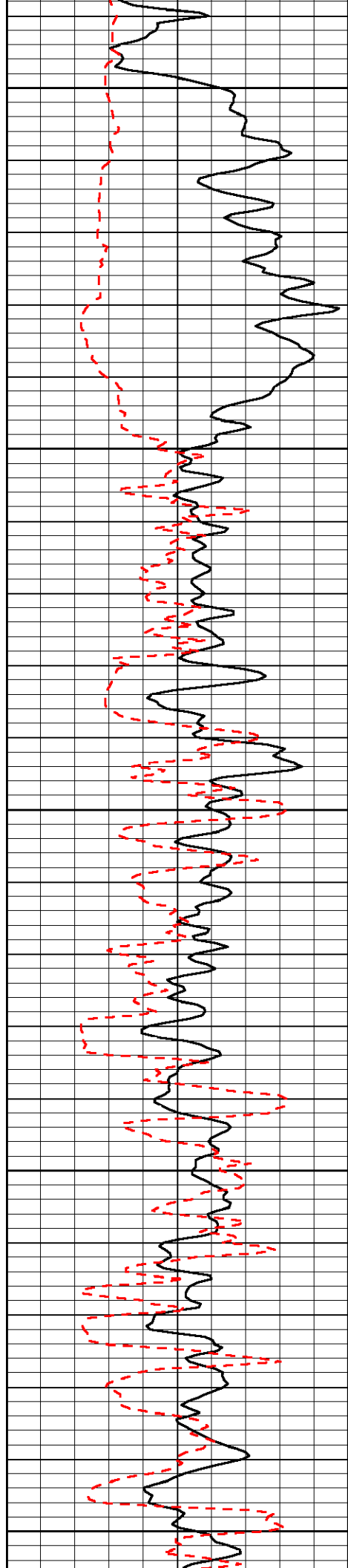
Thank you for using Log-Tech, Inc.
(785) 625-3858

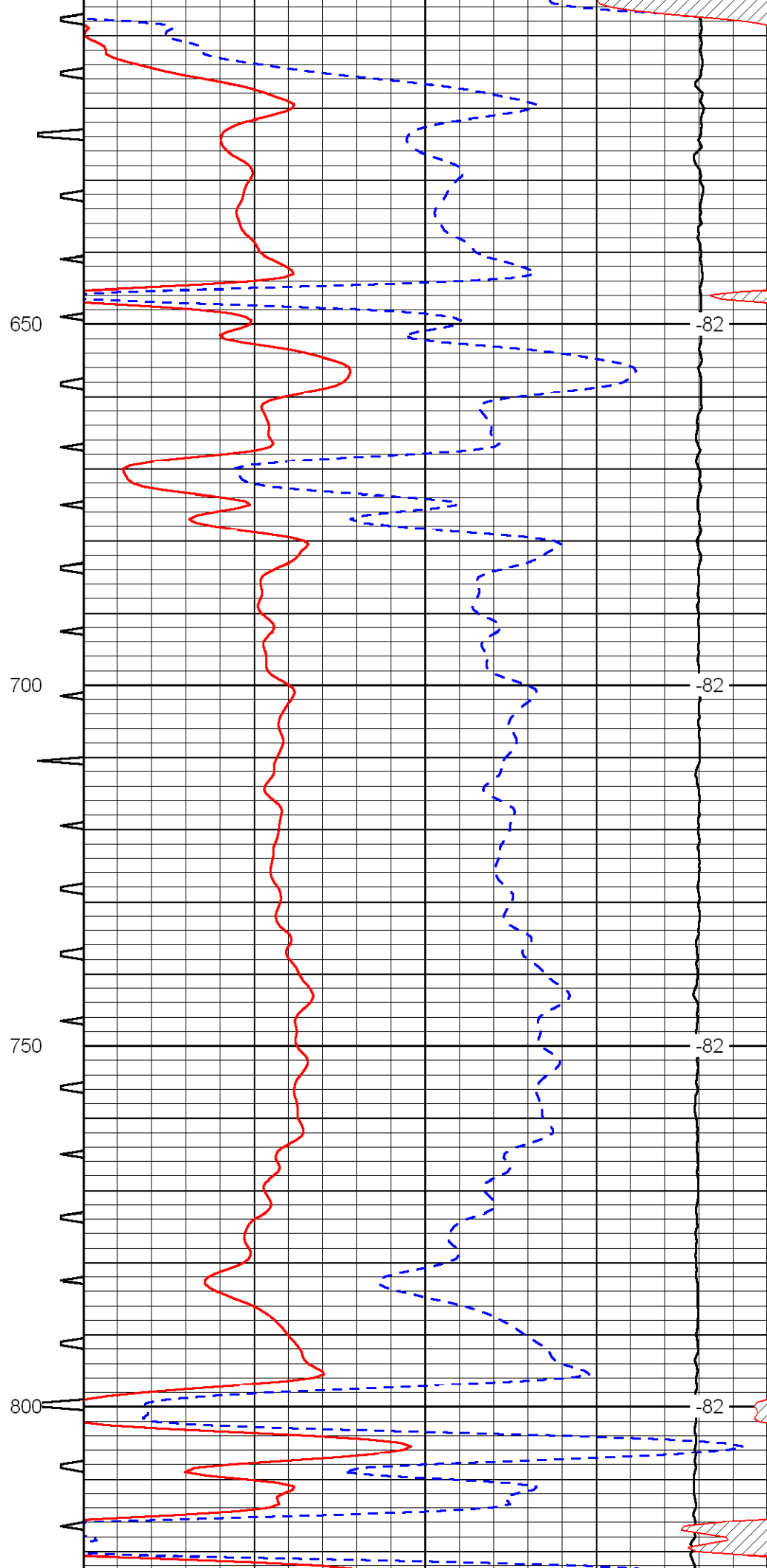
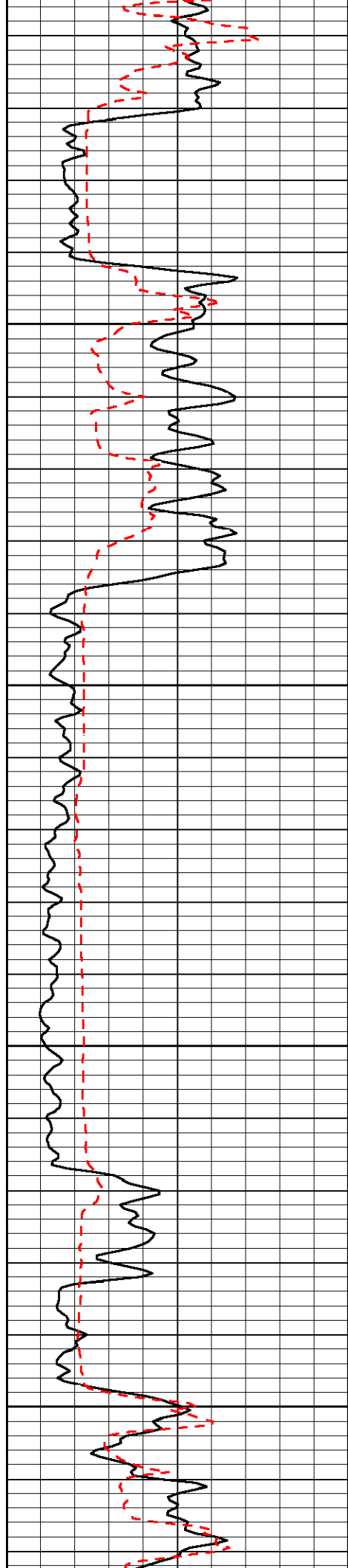
Hays, N to Saline River Rd, 1 1/2,
3 3/4 N, W Into

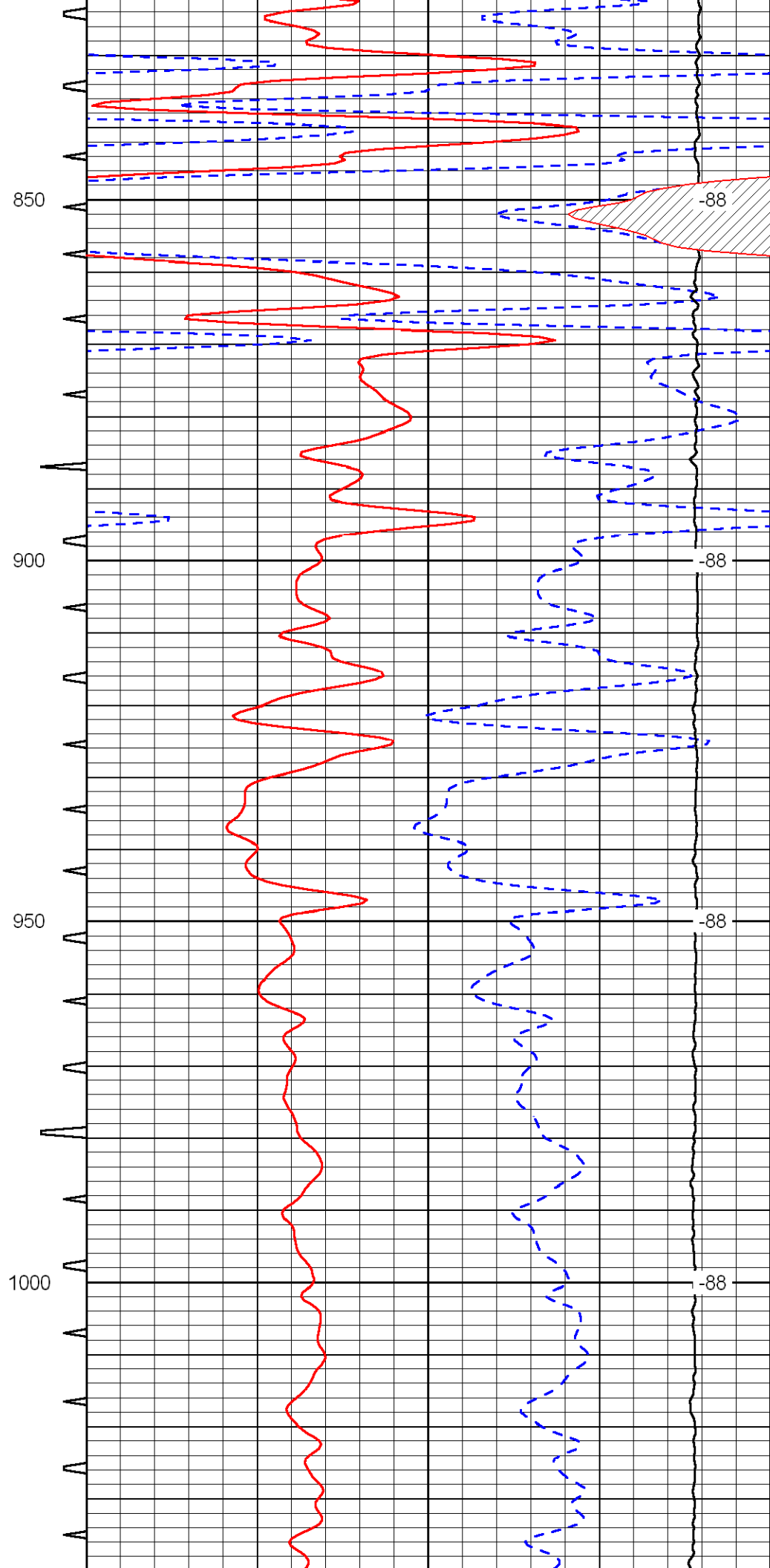
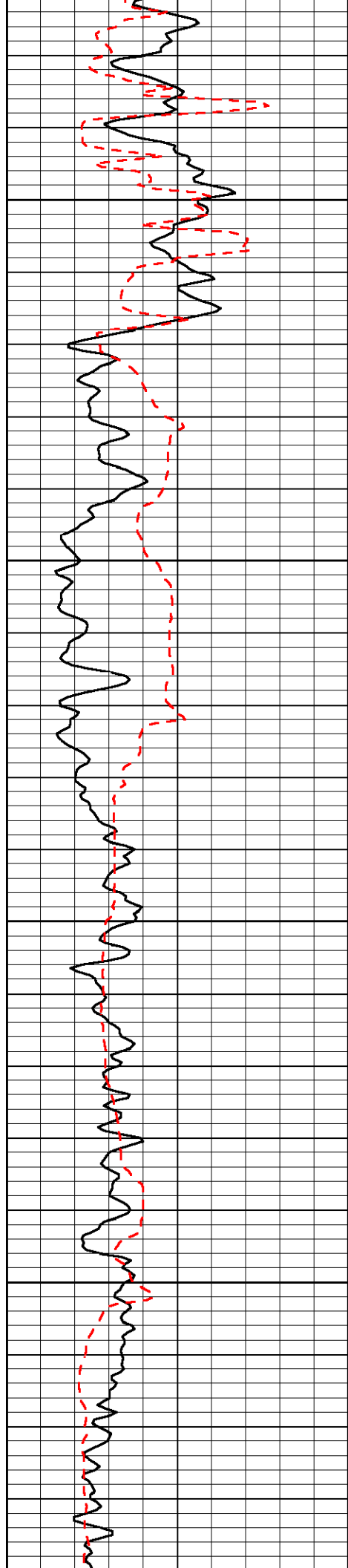
Database File: c:\warrior\data\murfin_m&a unit #1-32\murfin.db
Dataset Pathname: dil\mrfnstk
Presentation Format: sonic
Dataset Creation: Mon Jul 13 21:25:01 2009
Charted by: Depth in Feet scaled 1:240

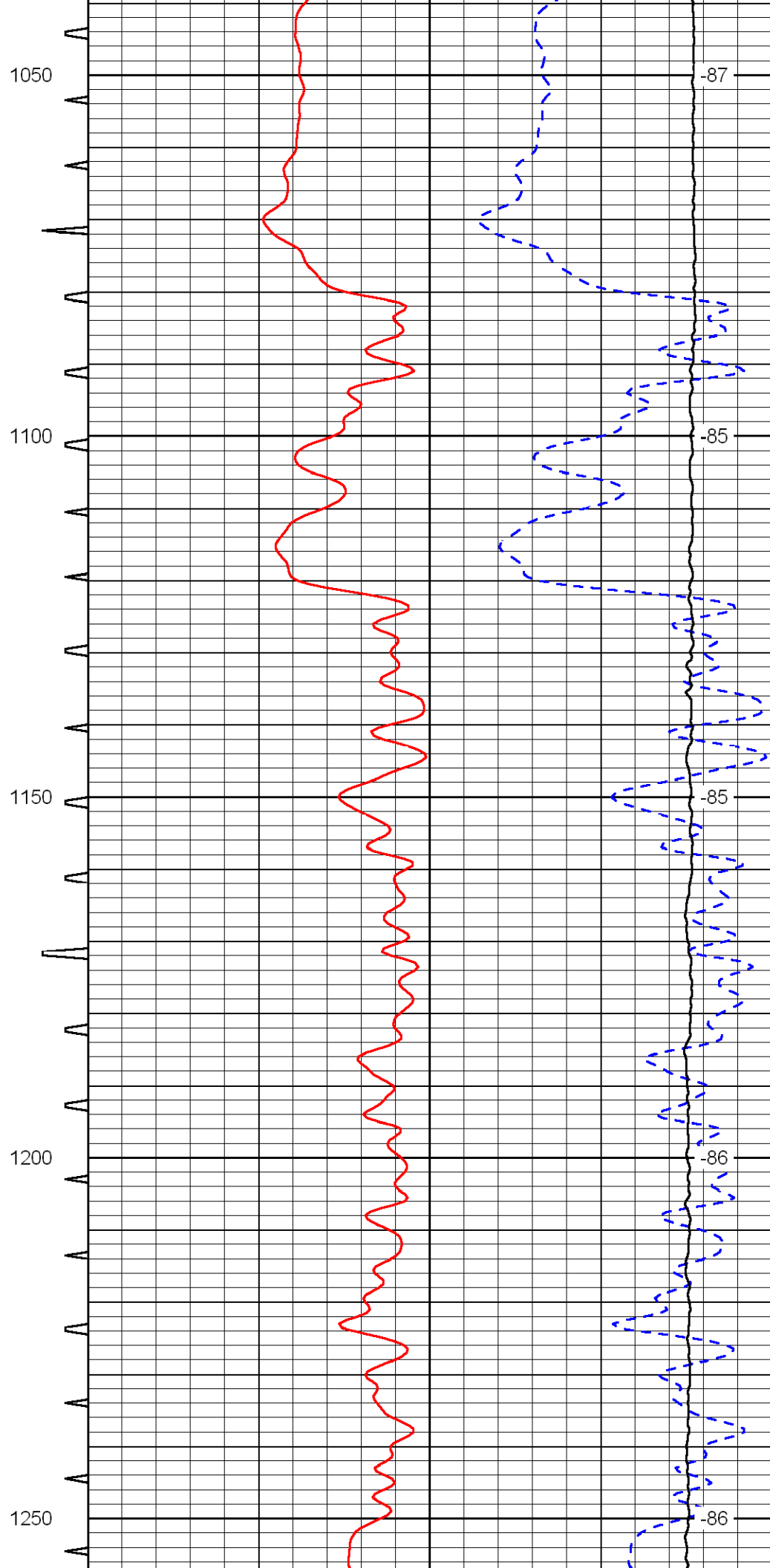
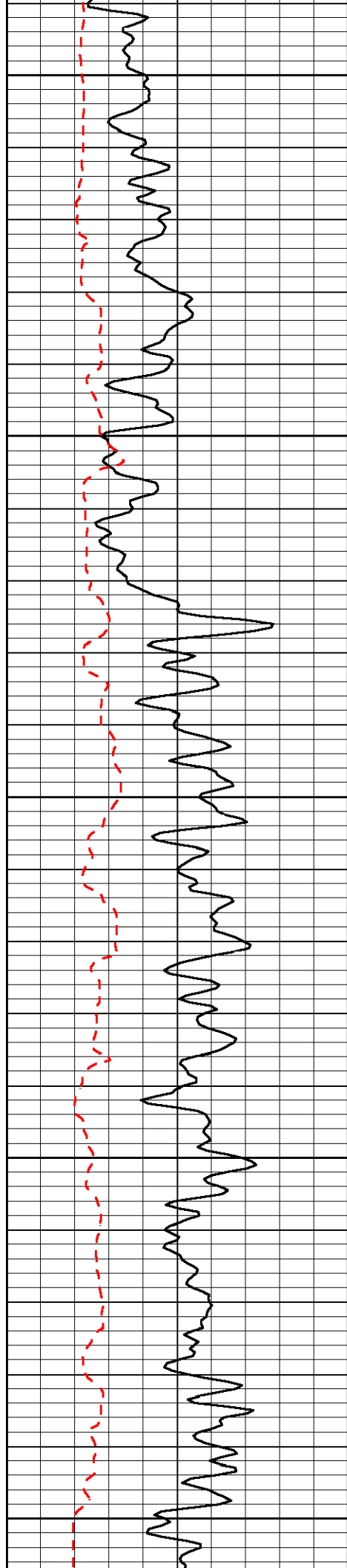
0	Gamma Ray	150	Sonic Int	140	Delta Time (usec/ft) (usec/ft)		40
150	Gamma Ray	300	5 (msec) 0	30	SPOR (pu)		-10
6	Caliper (in)	16		10000	LTEN (lb) (lb)		0
							LSPD (ft/min)

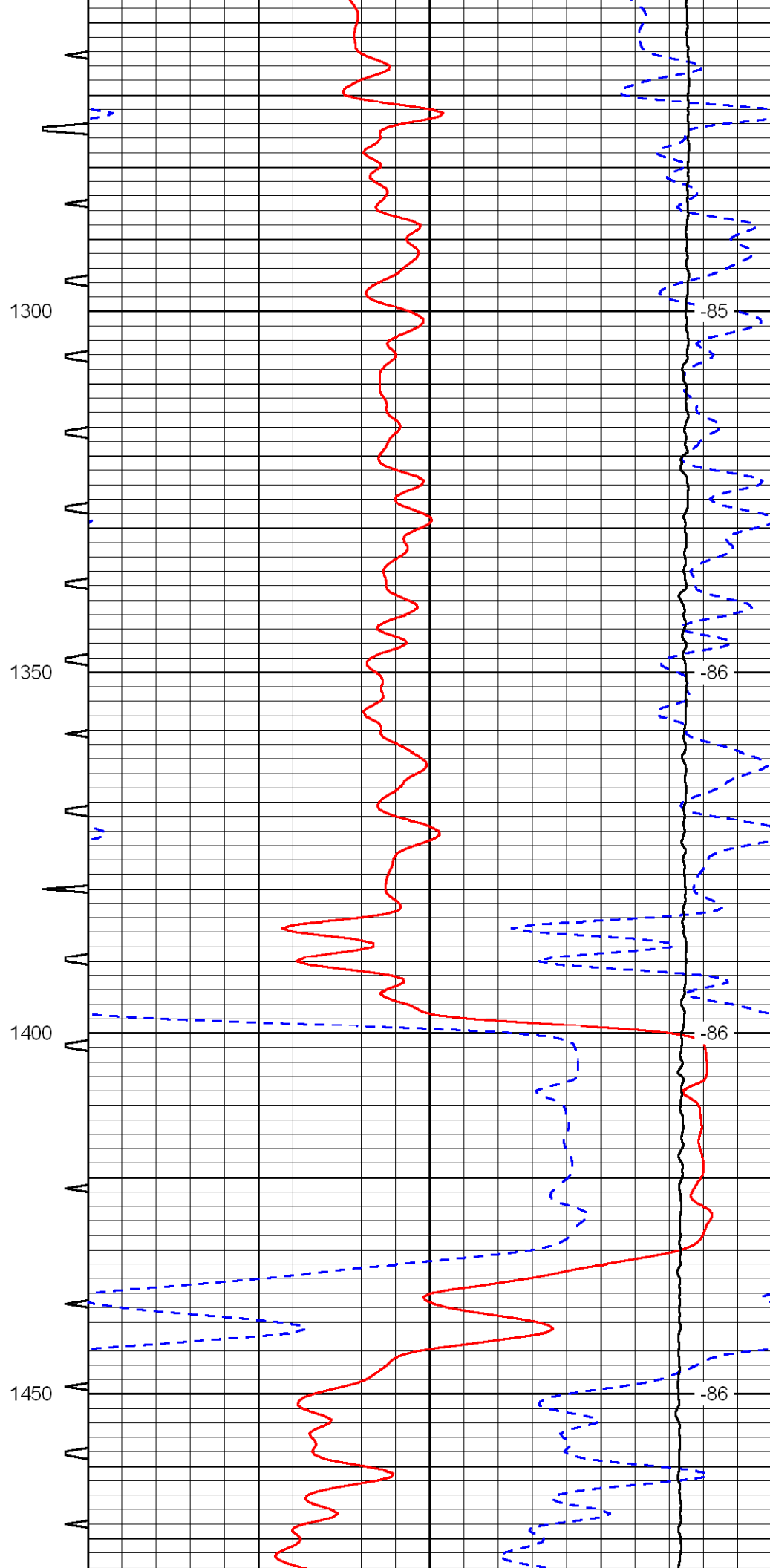
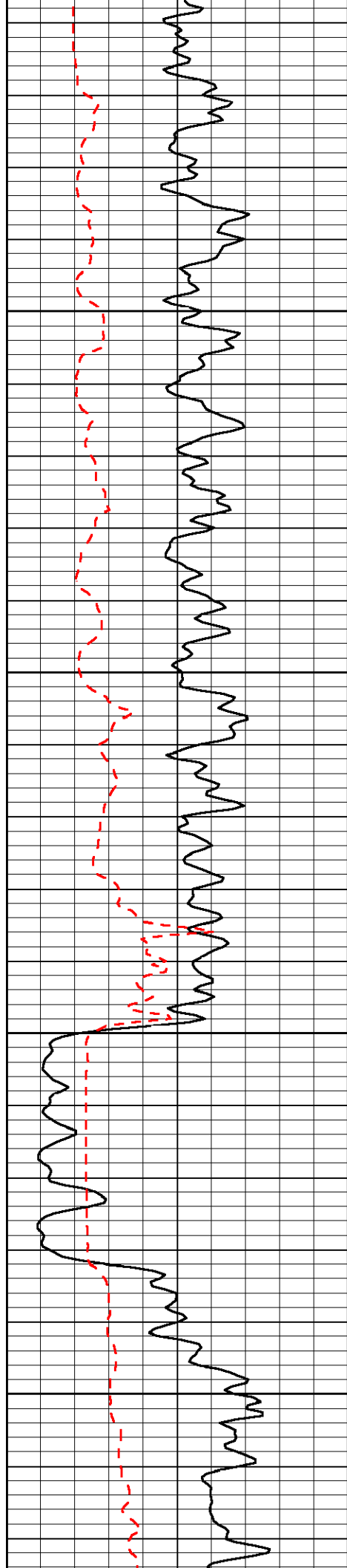


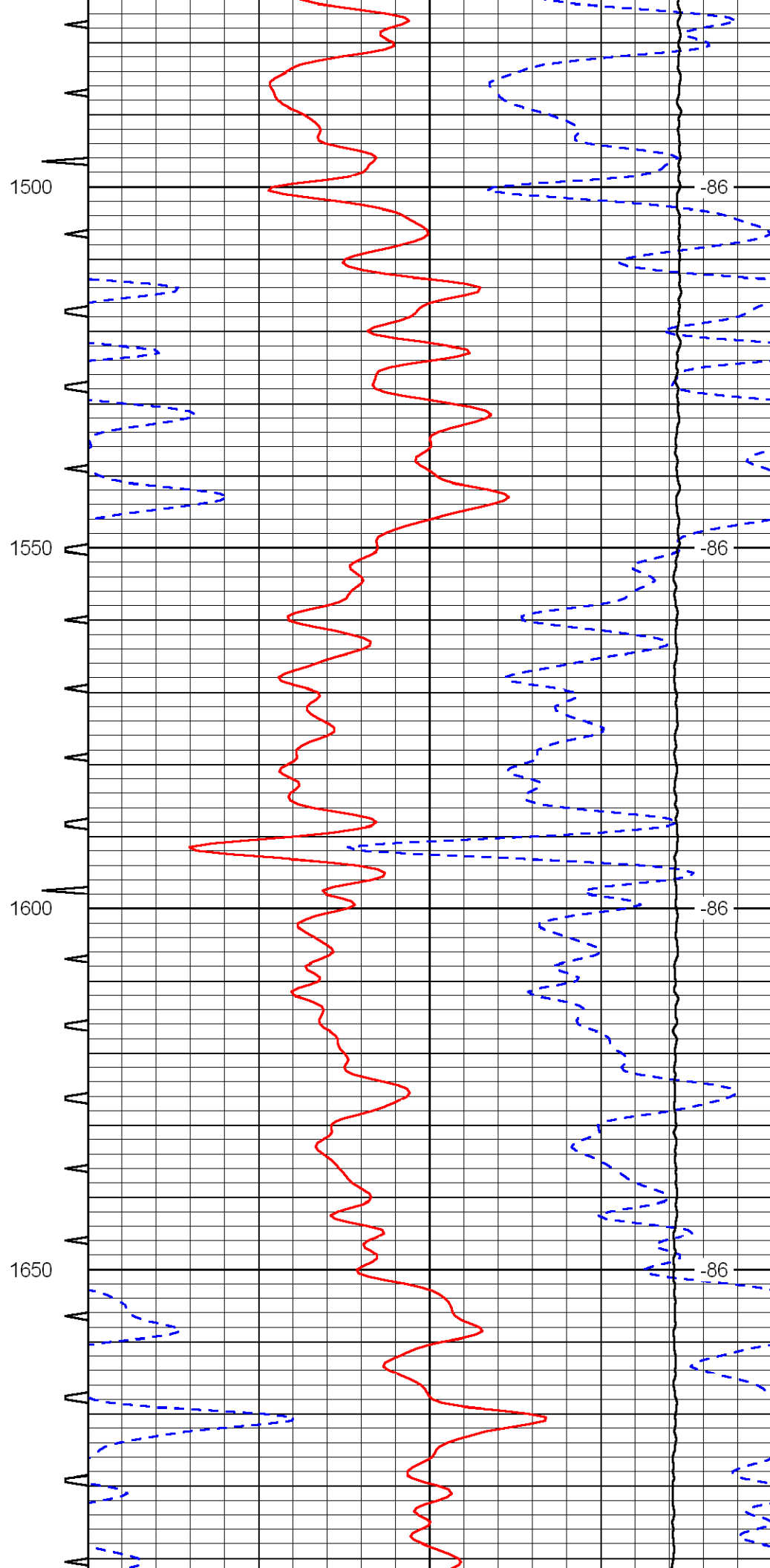
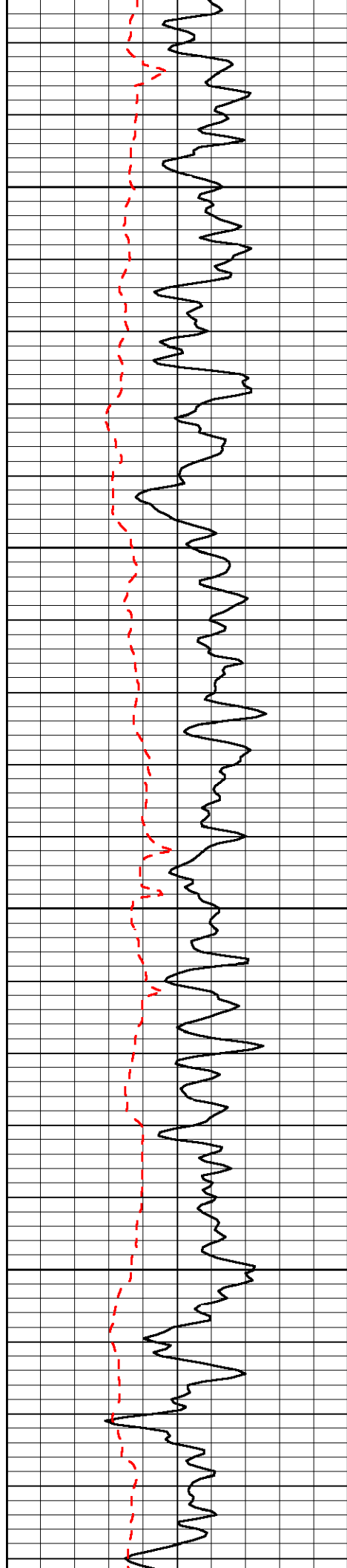


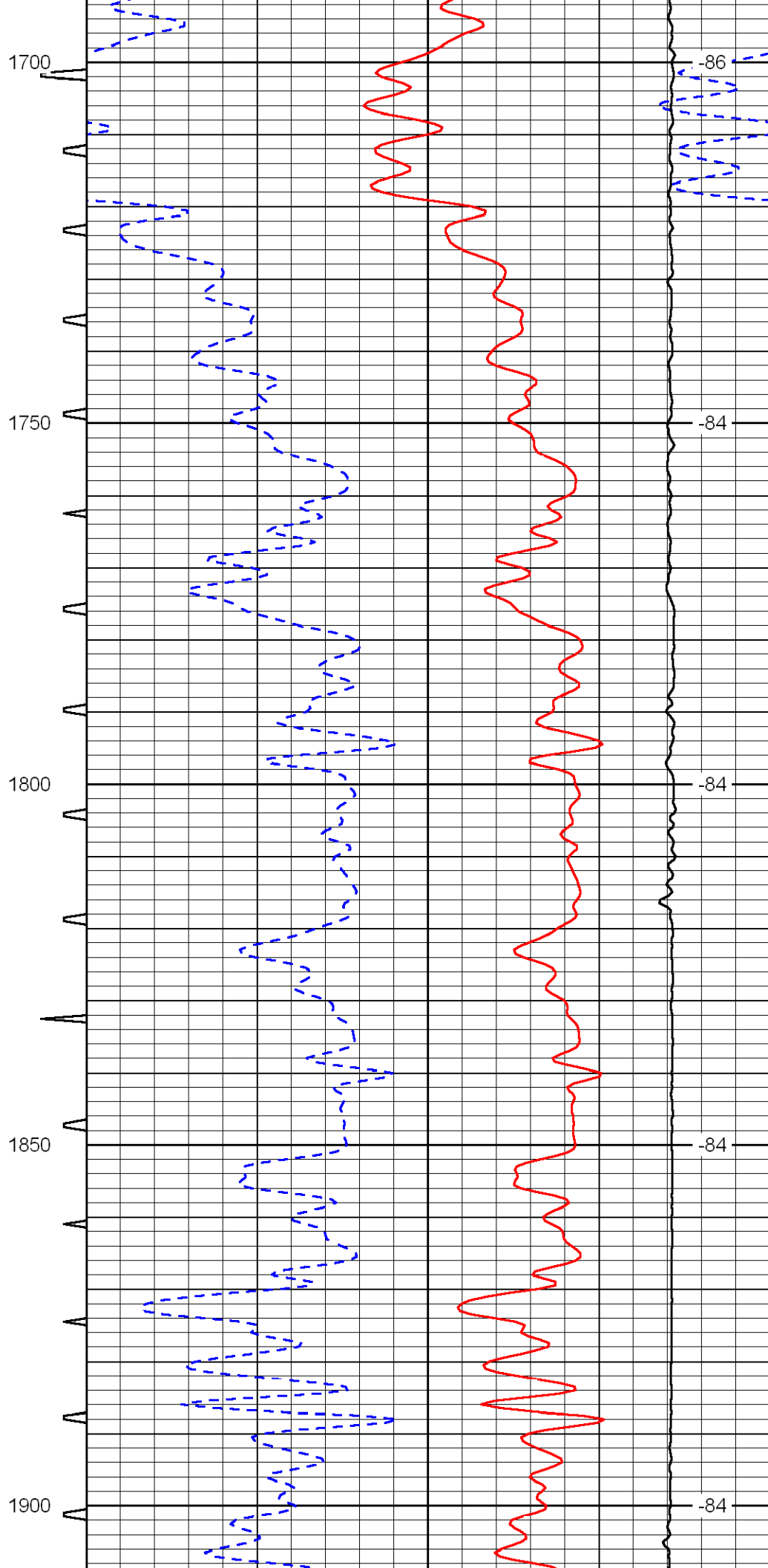
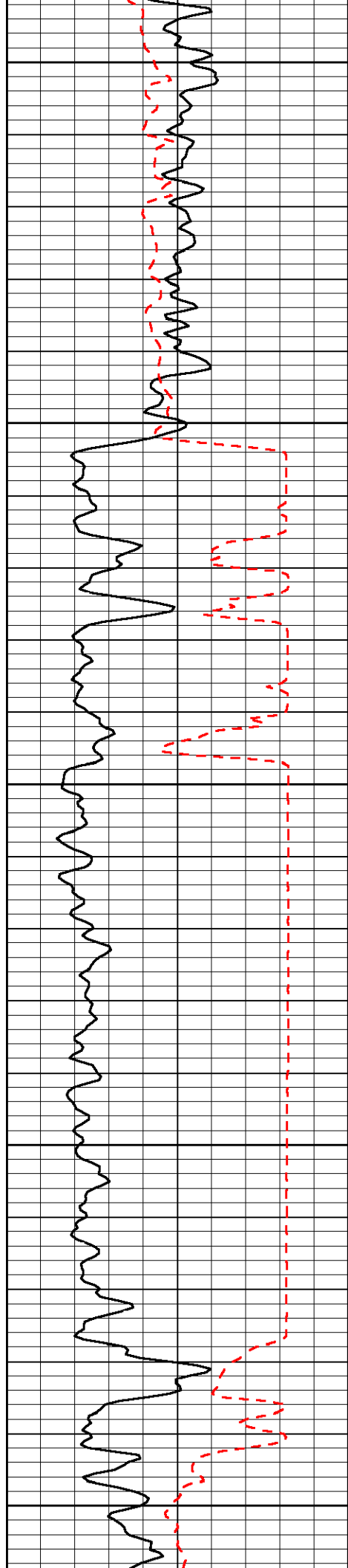


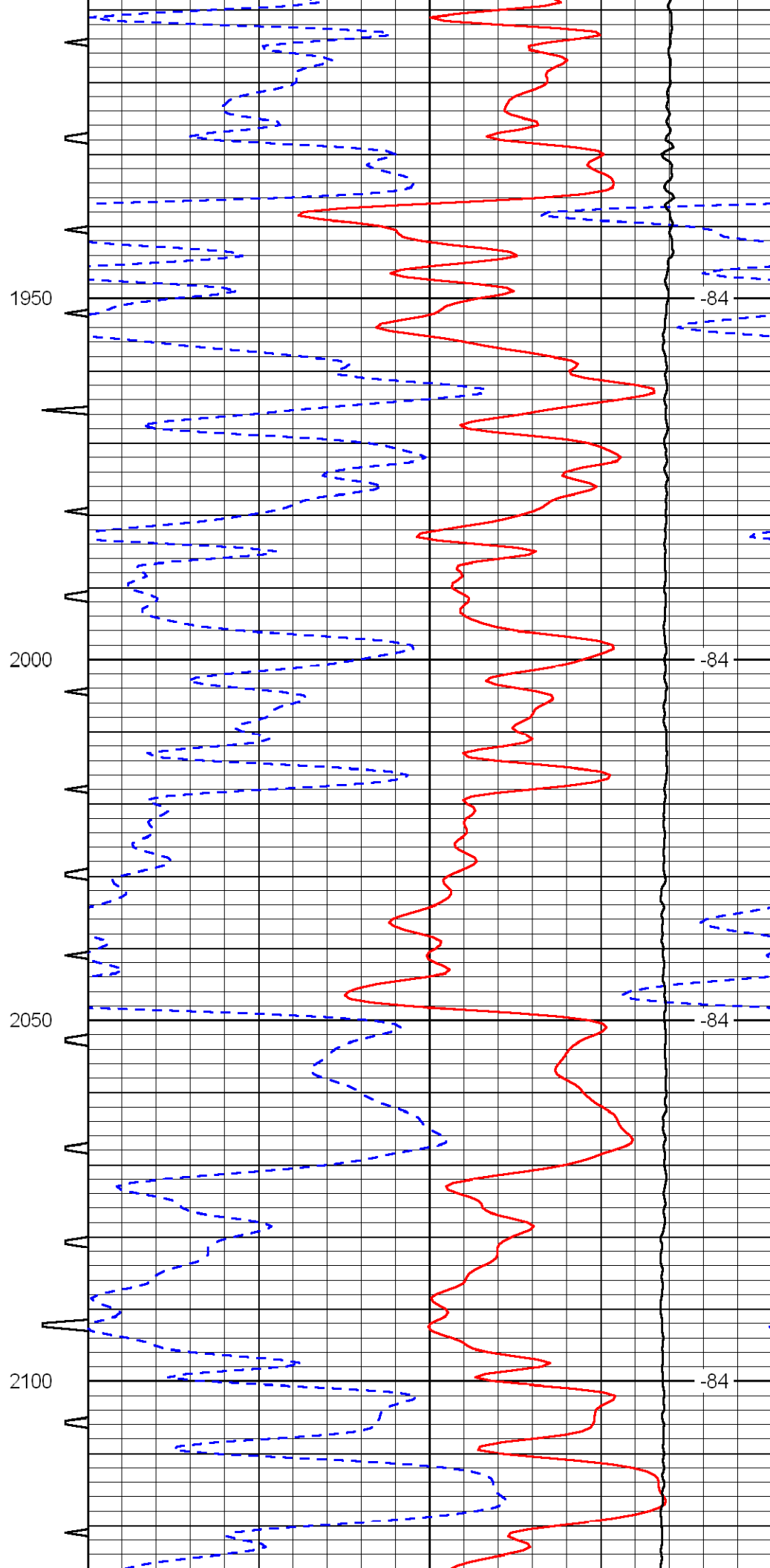
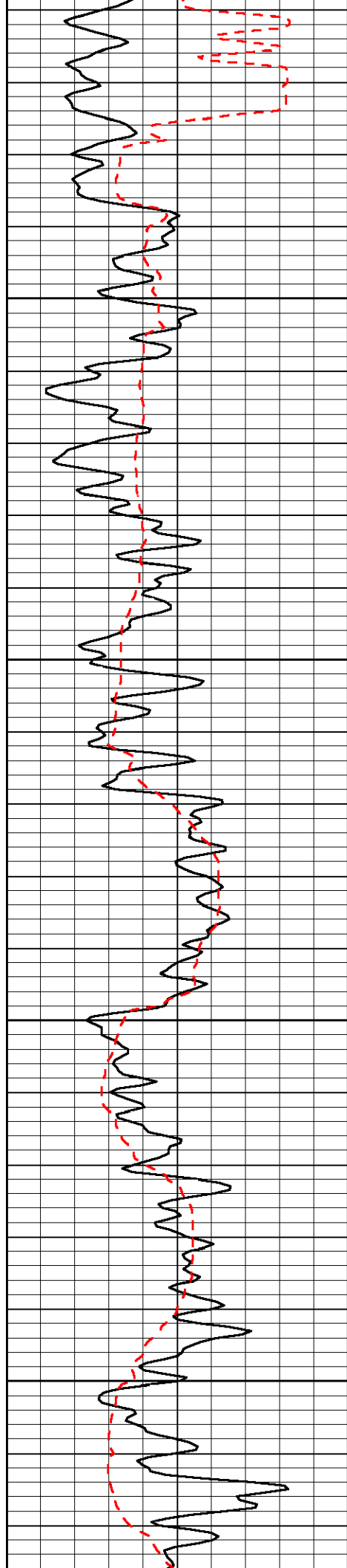


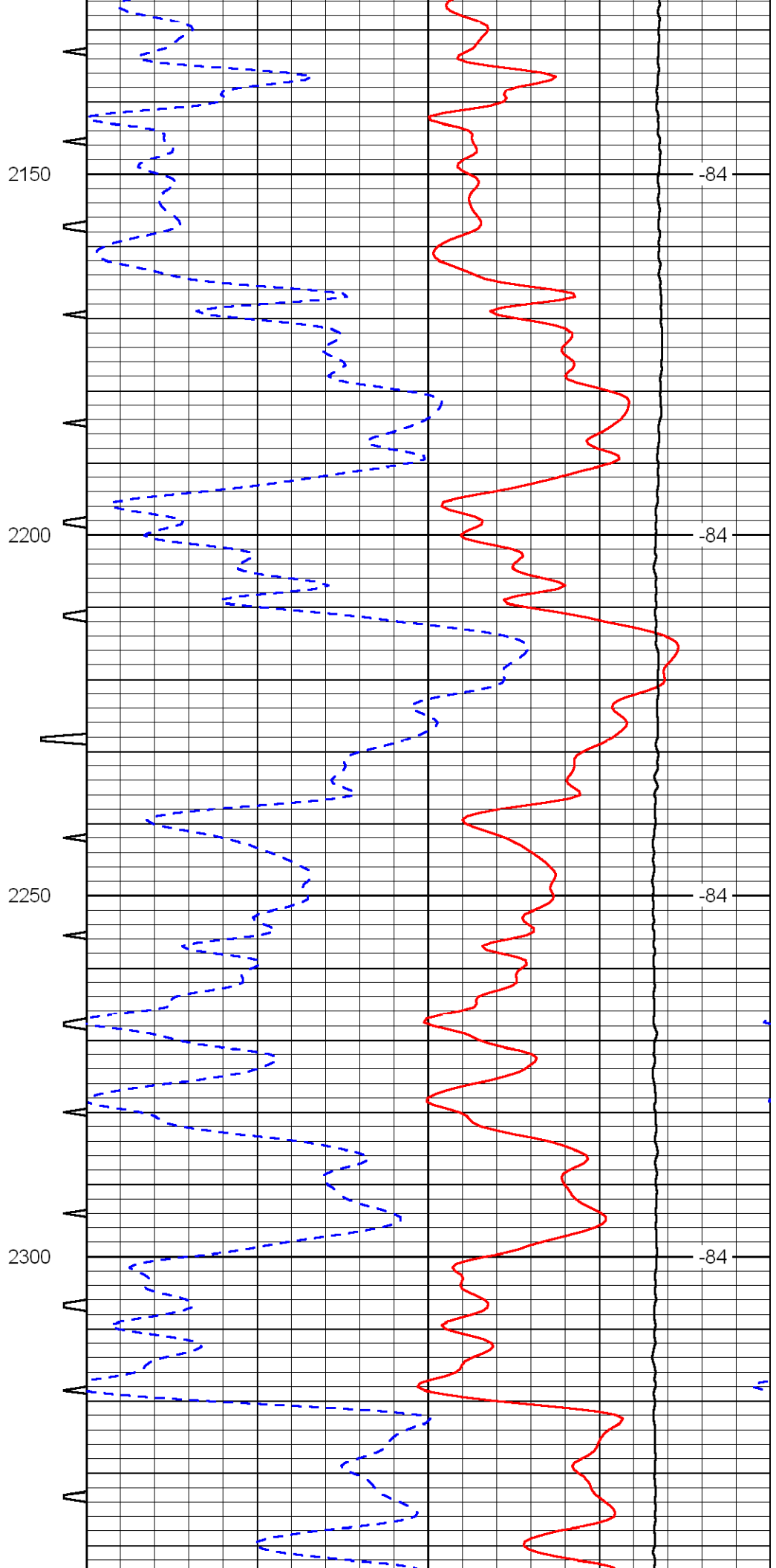
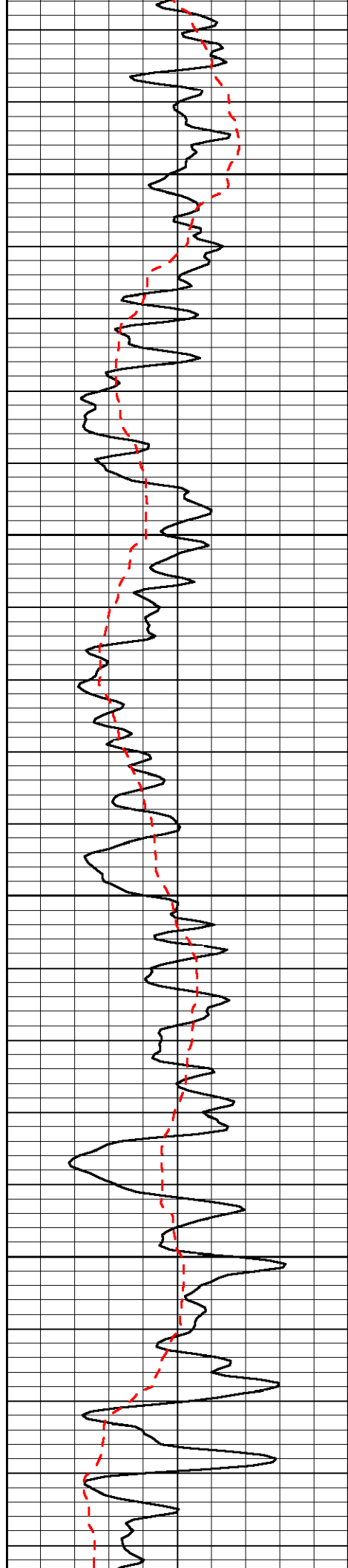


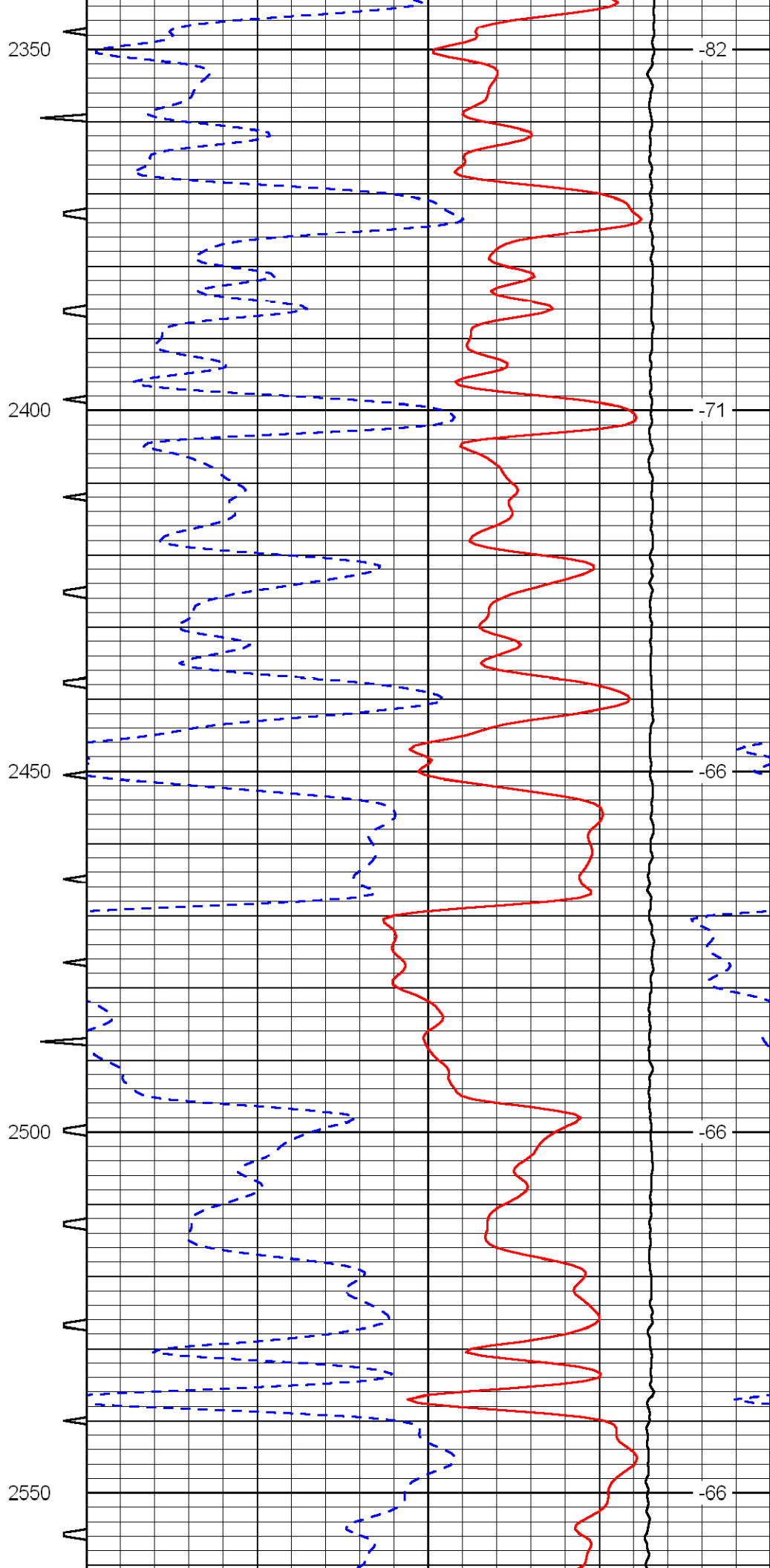
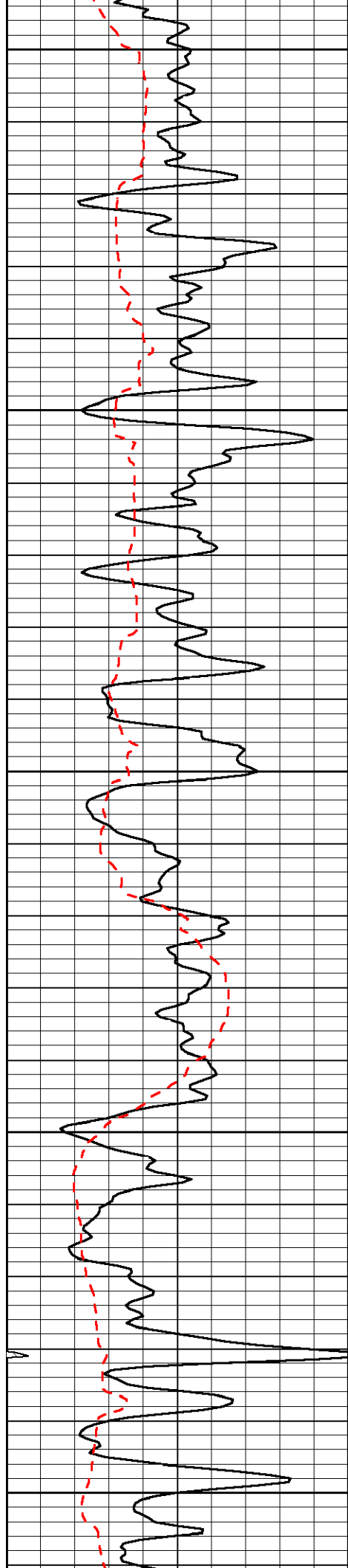


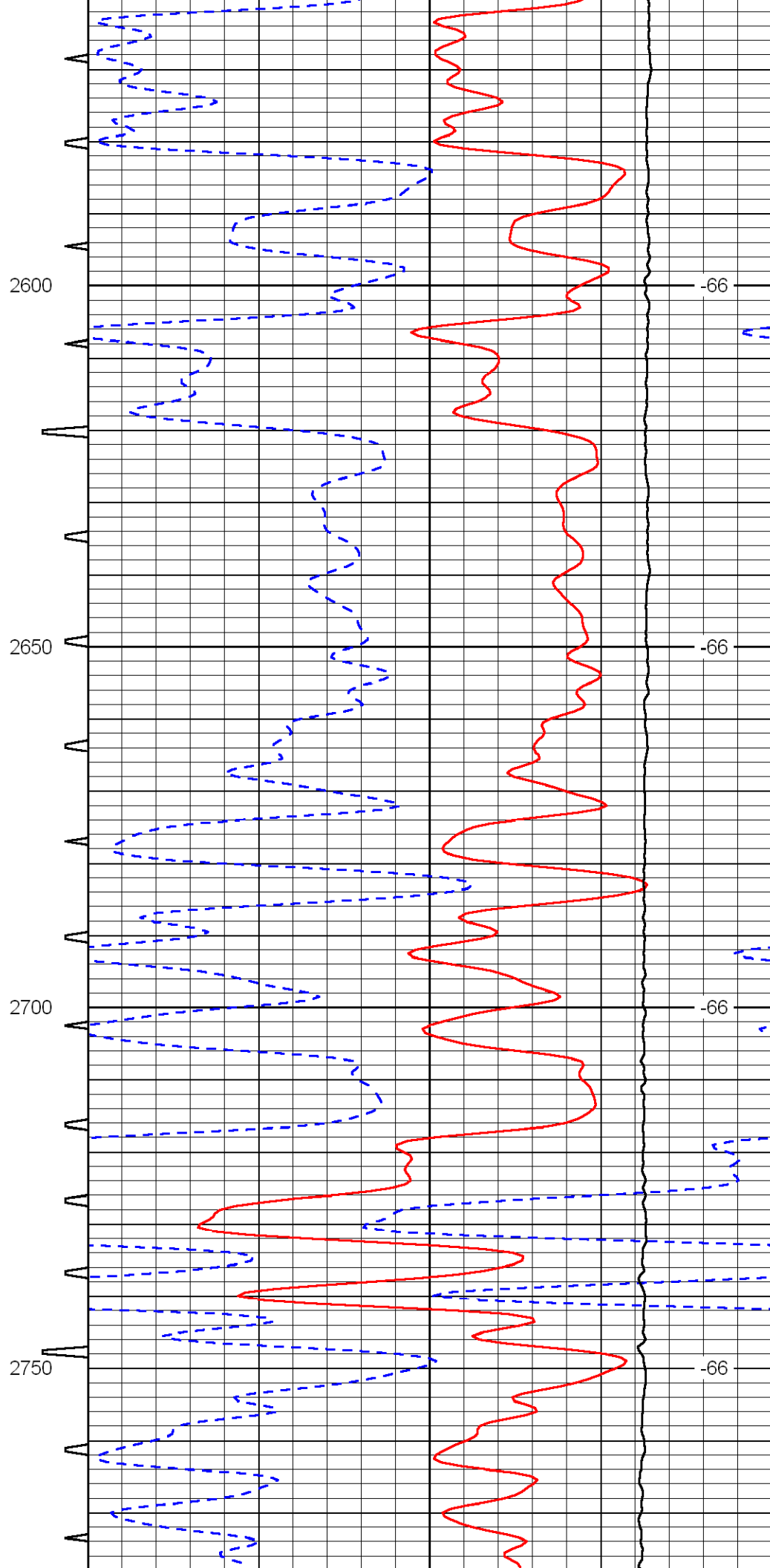
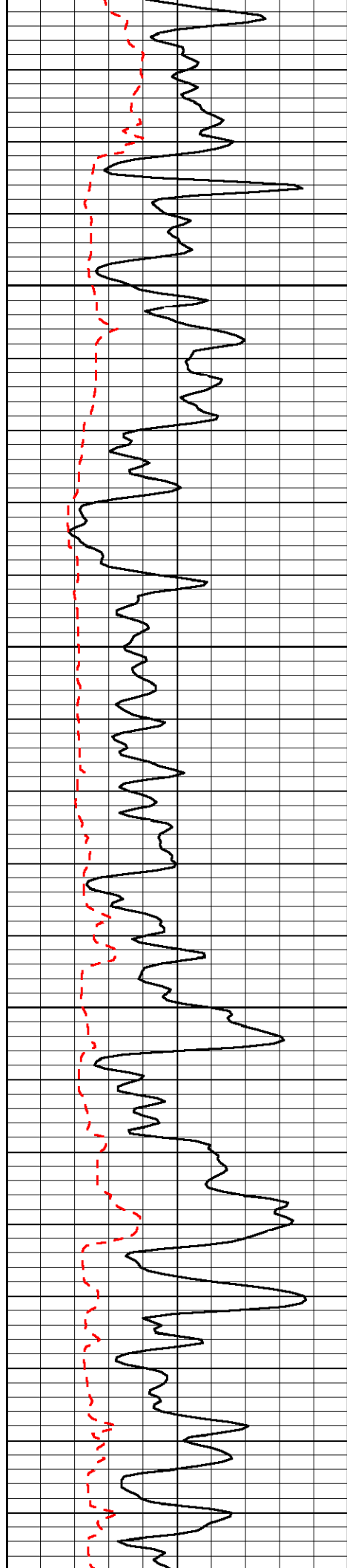


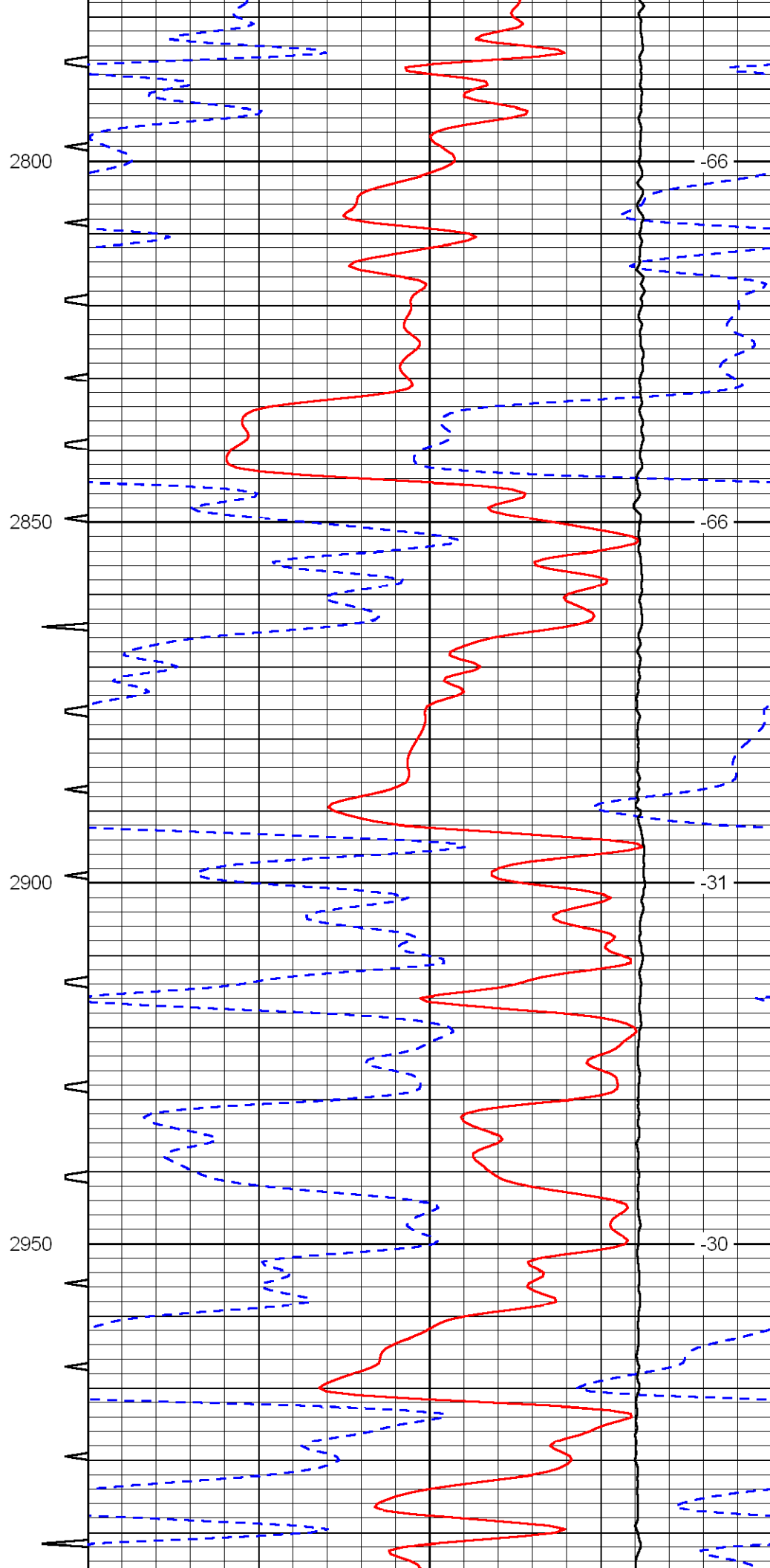
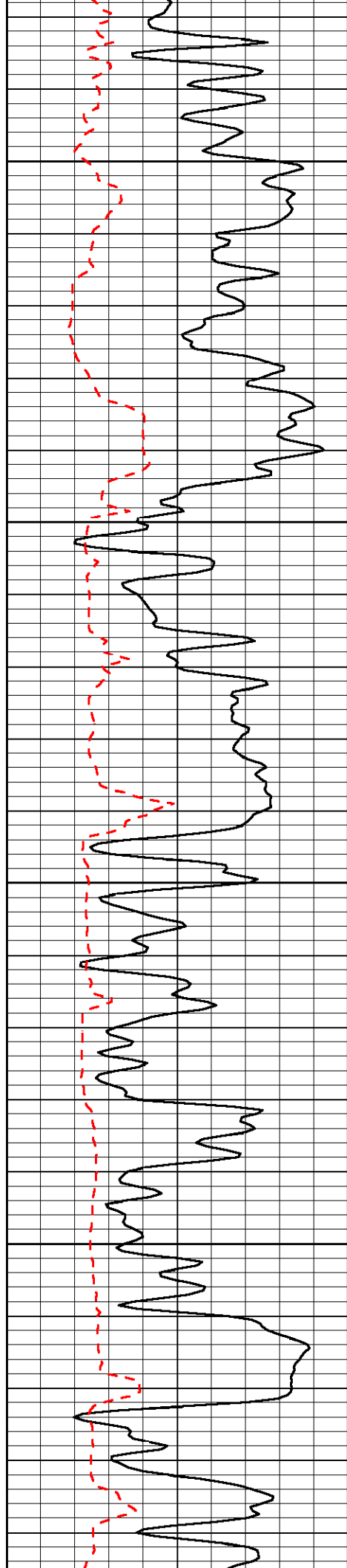


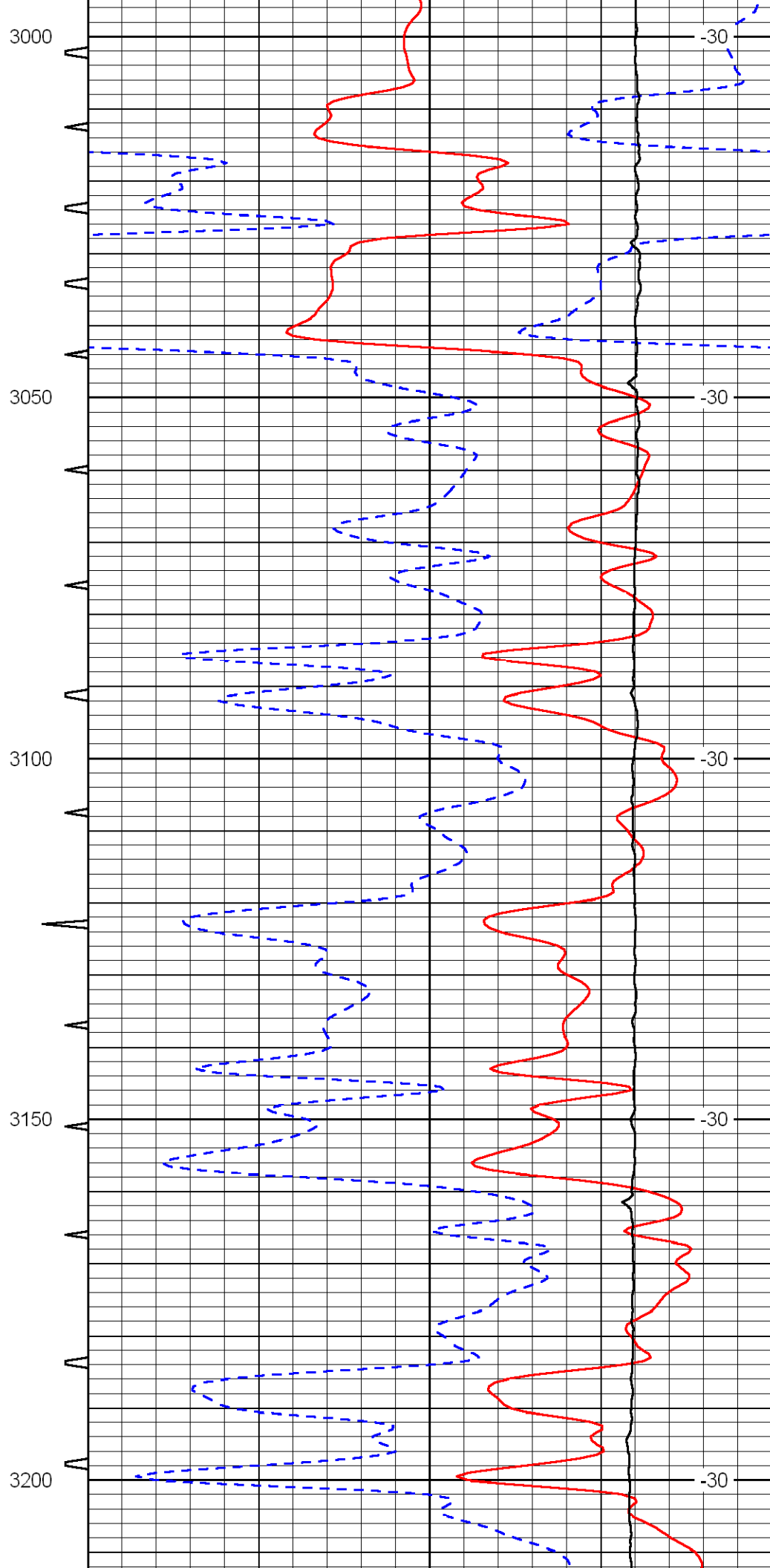
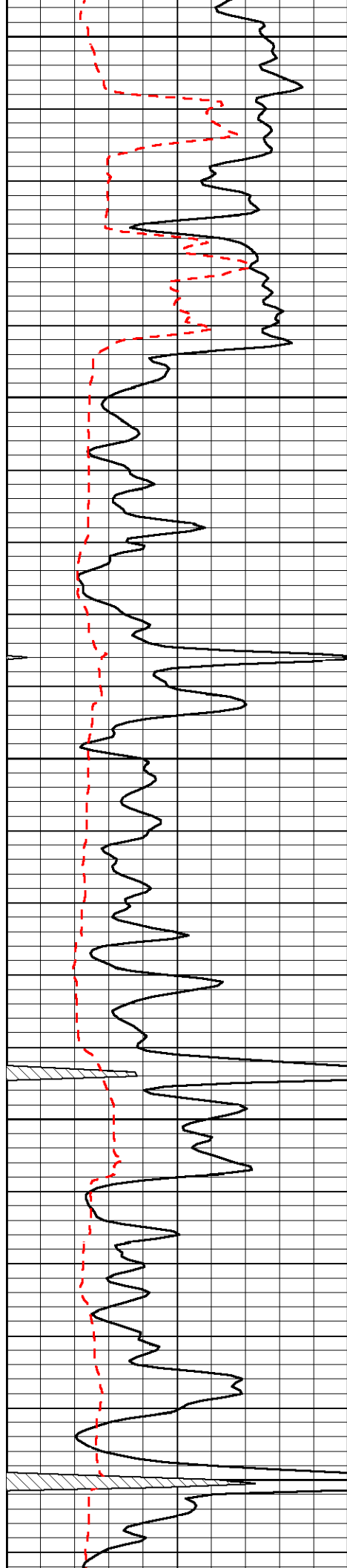


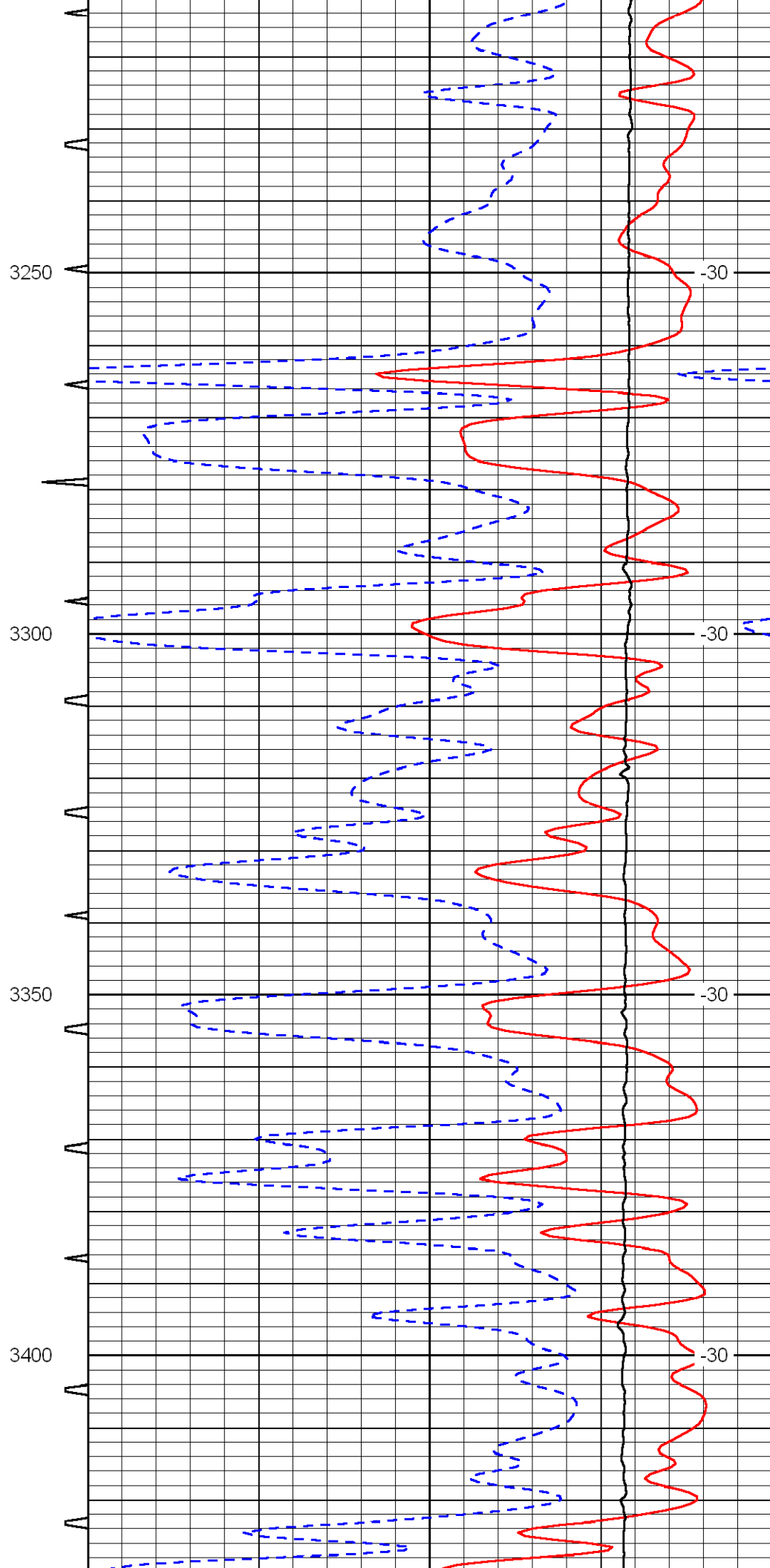
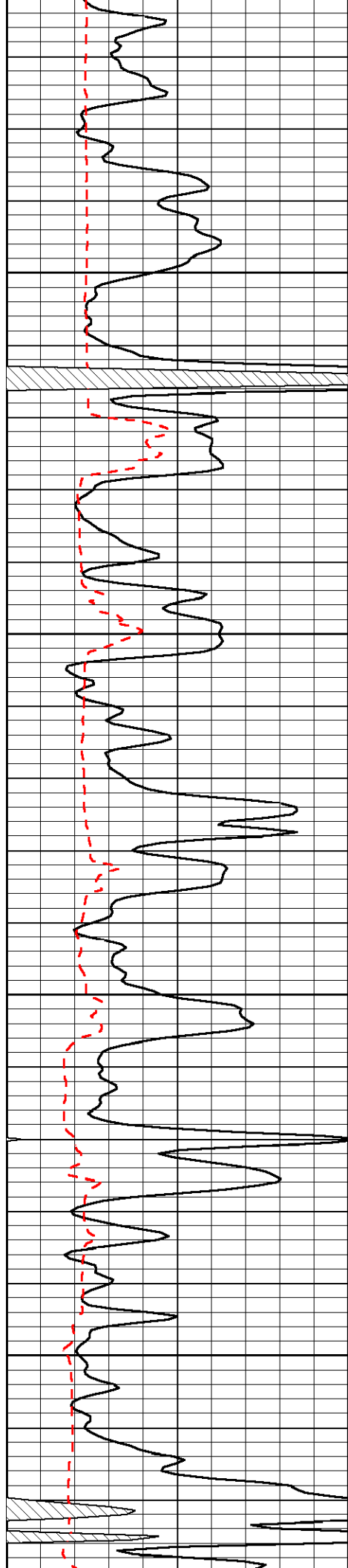


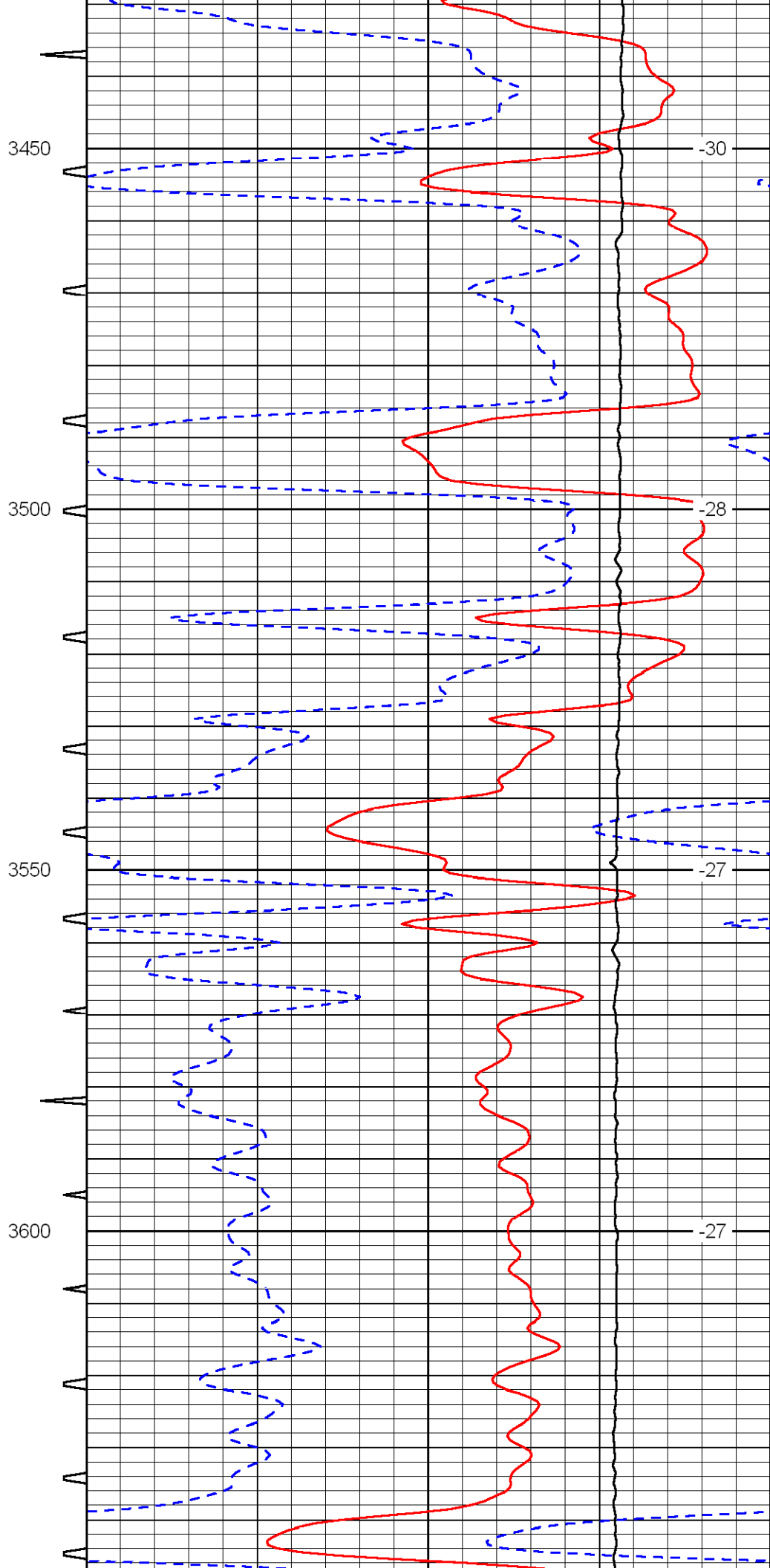
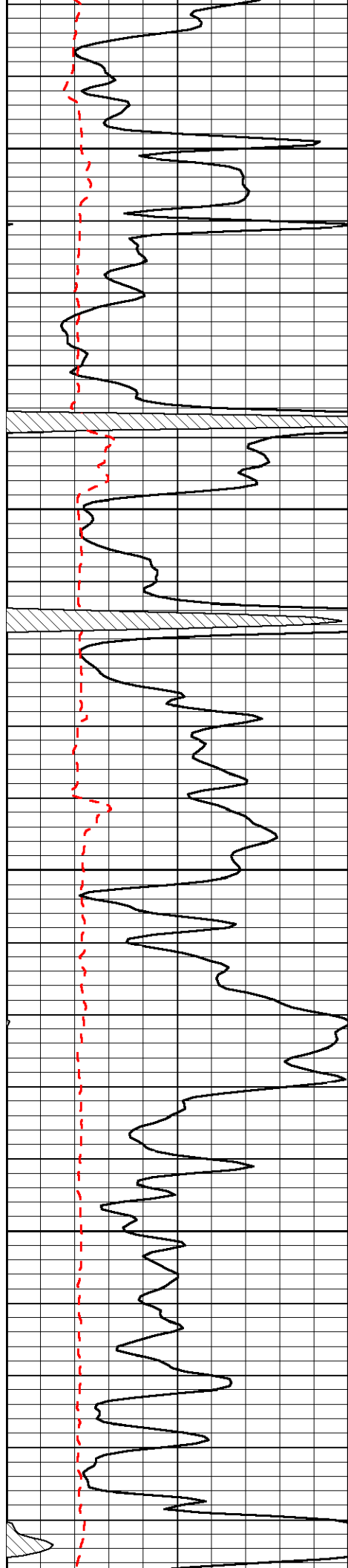


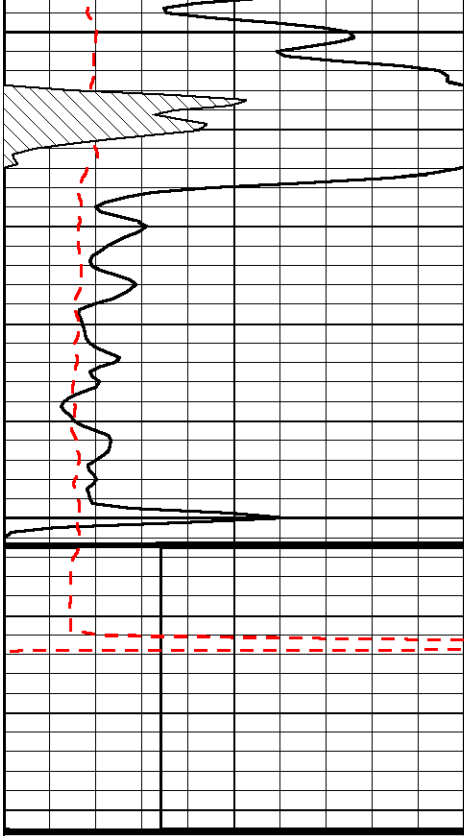




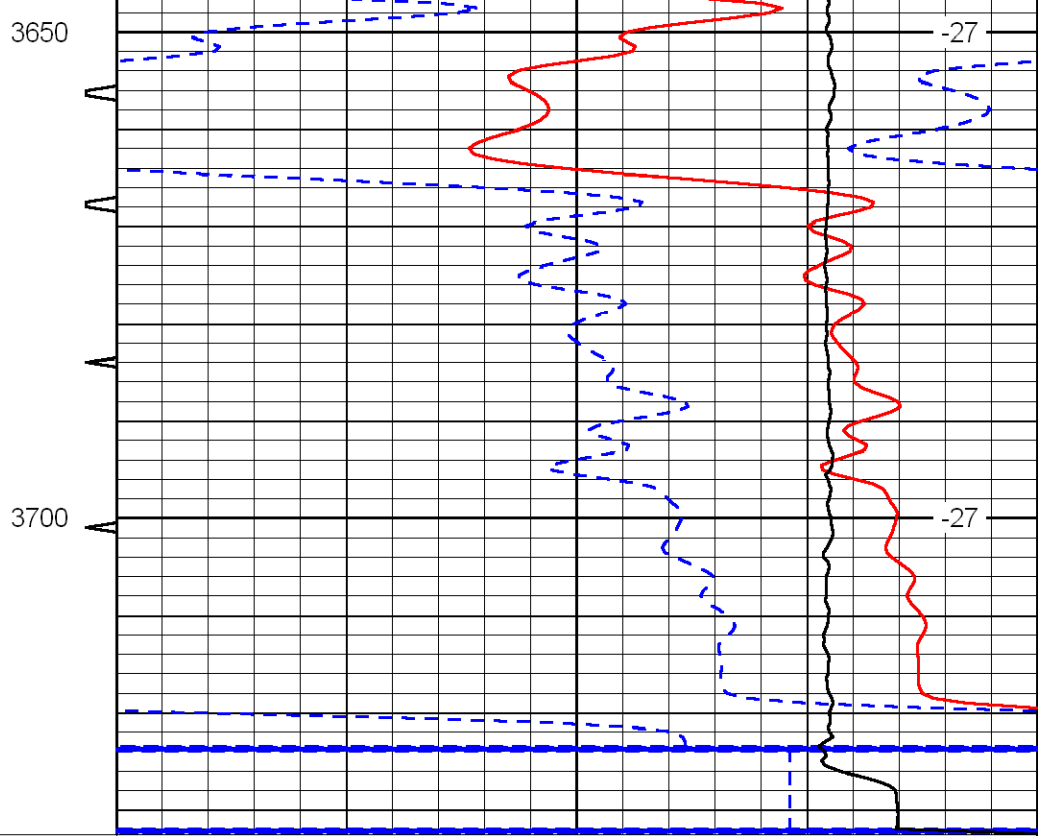








0	Gamma Ray	150
150	Gamma Ray	300
6	Caliper (in)	16



Sonic Int	140	Delta Time (usec/ft) (usec/ft)	40
5 (msec) 0	30	SPOR (pu)	-10
	10000	LTEN (lb) (lb)	0

LSPD
(ft/min)