



PIONEER

Pioneer Energy Services

Borehole Compensated Sonic Log

API No.

15-195-22802-00-00

Company **Cholla Production, LLC**

Well **Ruder #1-5**

Field **Diebolt**

County **Trego**

State **Kansas**

Location

**NE SE NW NE
775' FNL / 1555' FEL**

Other Services
CNL/CDL
MEL/DIL

Sec: **5**

Twp: **11S**

Rge: **23W**

Elevation

Permanent Datum

Ground Level

Elevation **2316**

Log Measured From

Kelly Bushing

8 Ft. Above Perm. Datum

K.B. **2324**
D.F. **2316**
G.L.

Date

8/27/2012

Run Number

Two

Type Log

BHC Sonic

Depth Driller

4079

Depth Logger

4081

Bottom Logged Interval

4070

Top Logged Interval

250

Type Fluid In Hole

Chemical

Salinity, PPM CL

3500

Density

9.3

Level

Full

Max. Rec. Temp. F

117

Operating Rig Time

5 Hours

Equipment -- Location

15 Hays

Recorded By

R. Barnhart

Witnessed By

Bill Goff

Borehole Record

Casing Record

Run No

Bit

From

To

Size

Wgt.

From

To

One

12.25

00

272

8.625

23#

00

272

Two

7.875

272

TD

<<< 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.

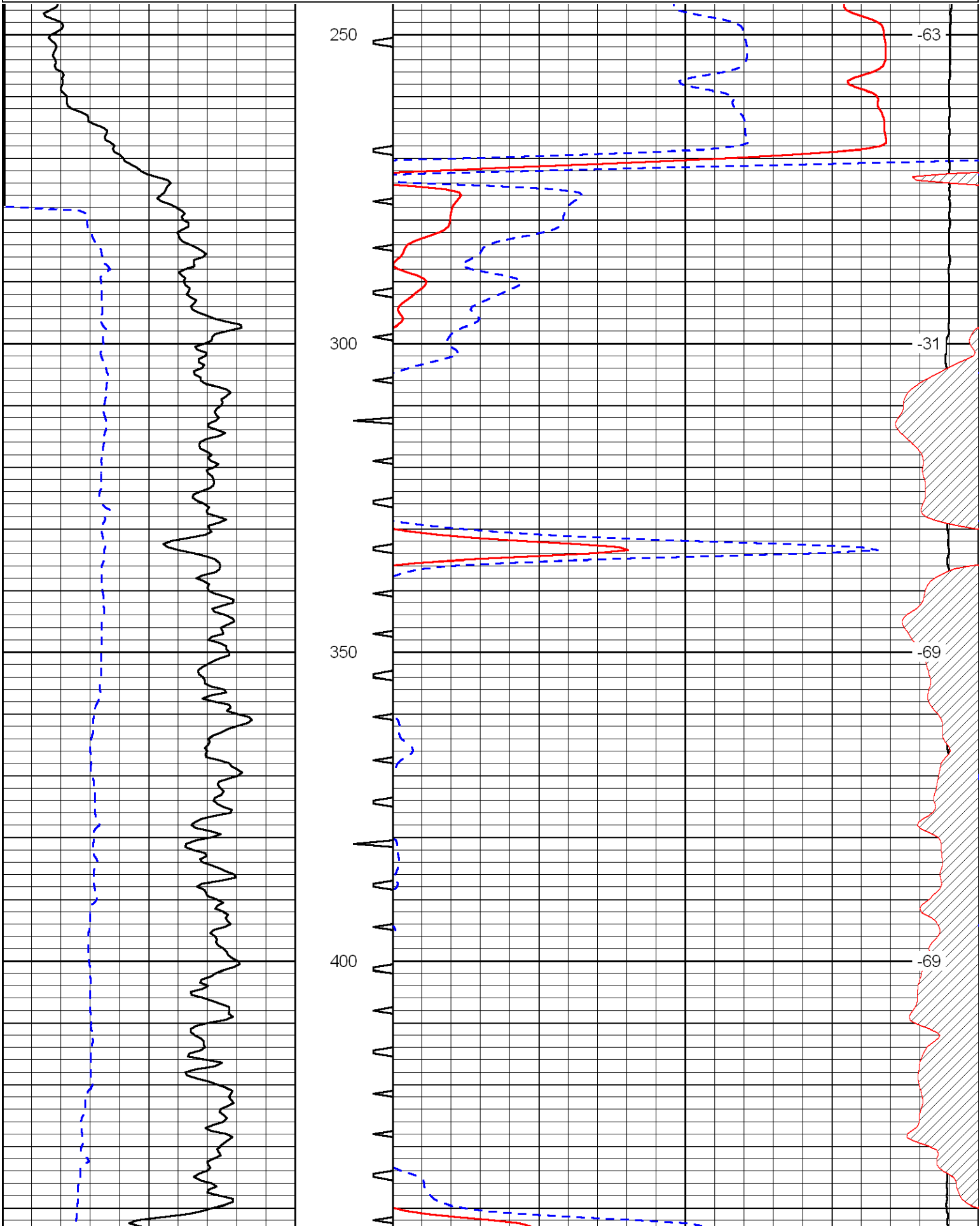
Comments

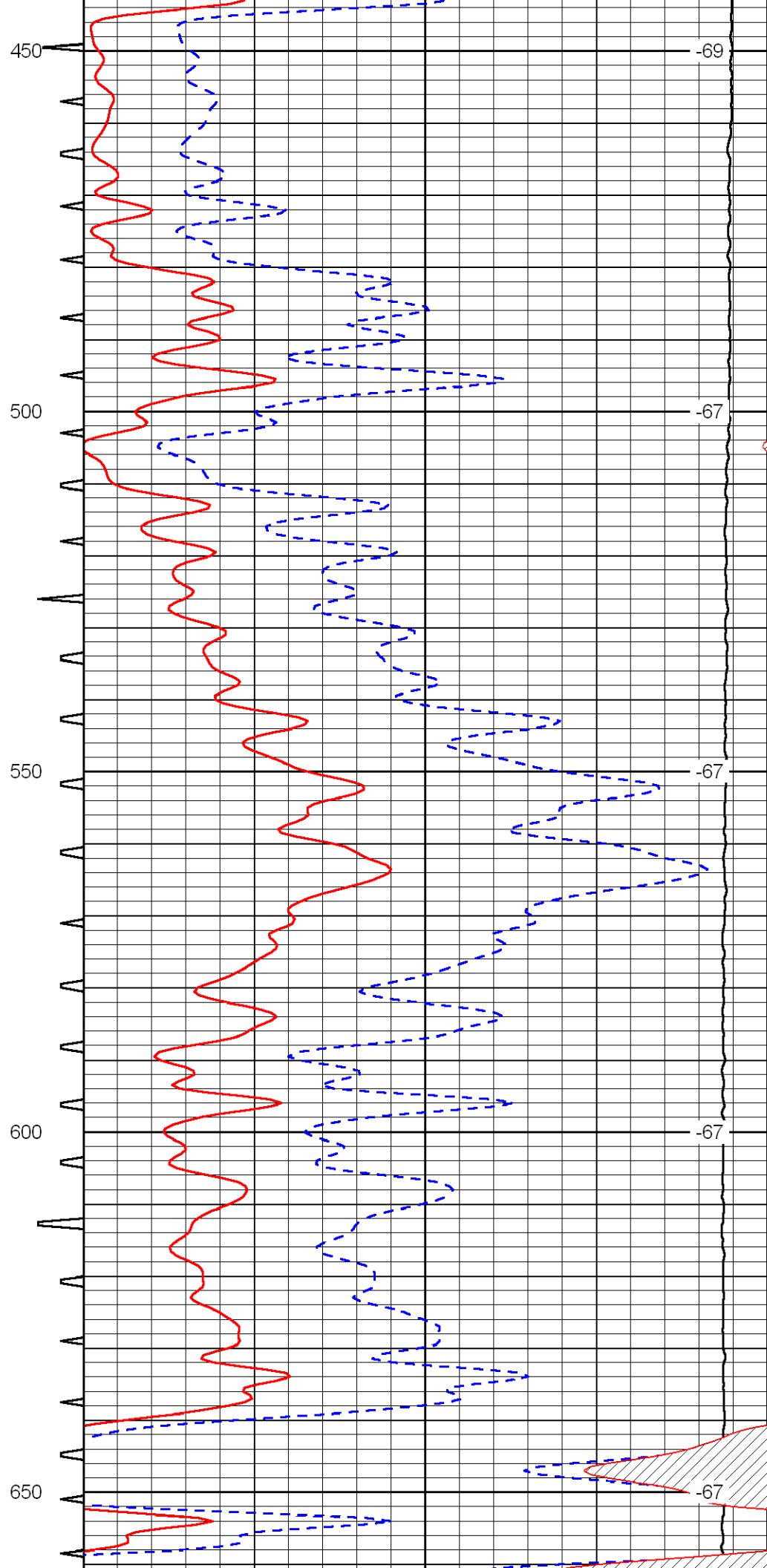
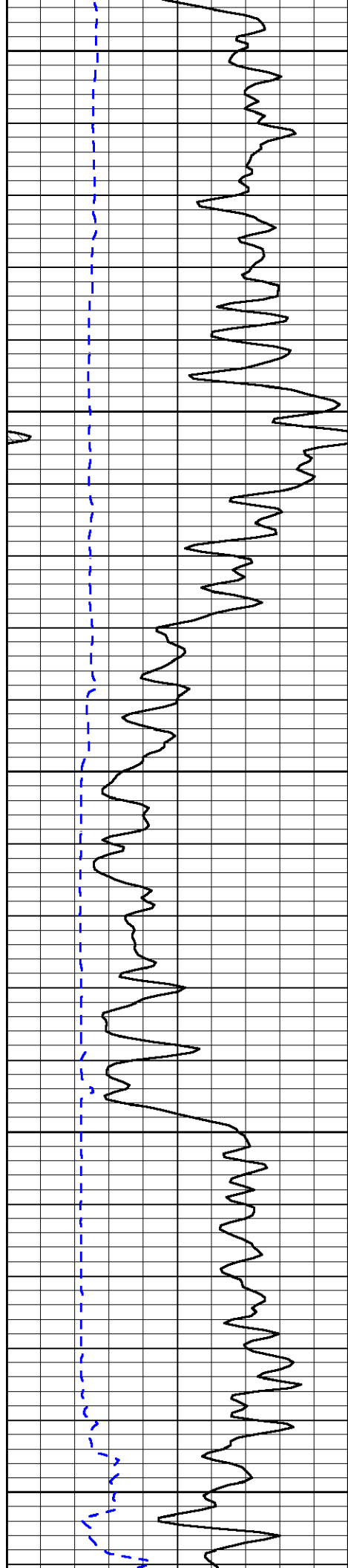
Thank you for using Log-Tech, Inc.
(785) 625-3858

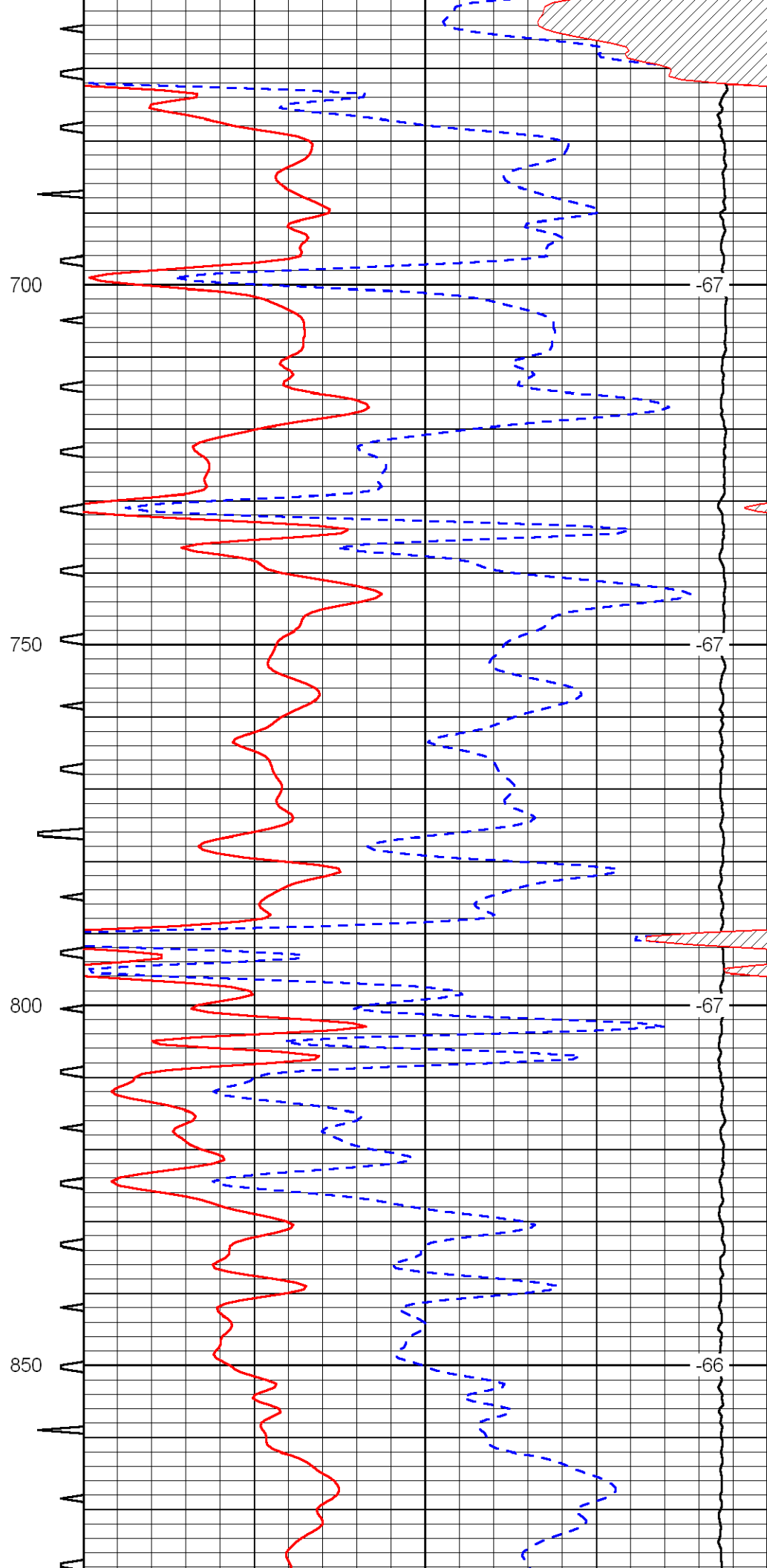
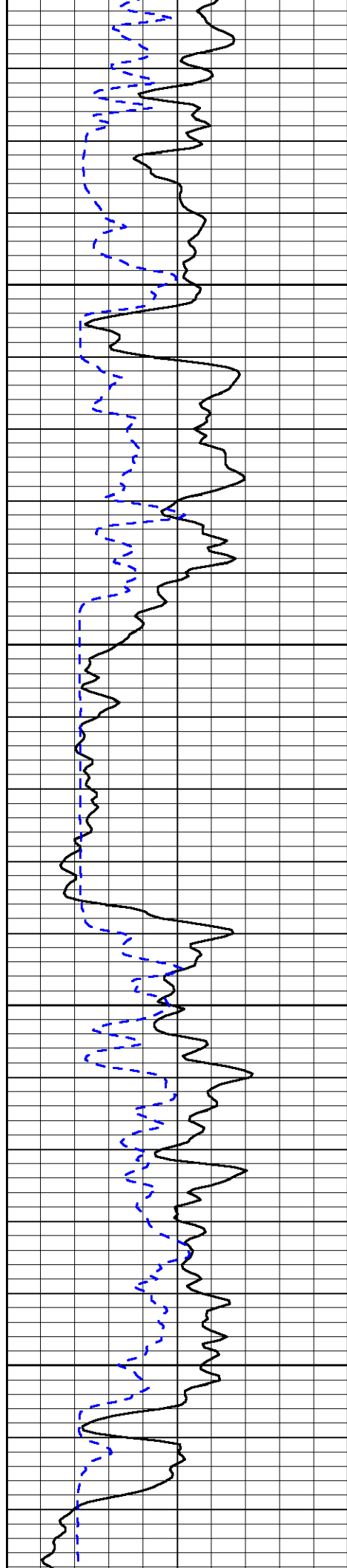
Wakeeney, KS:
7N, 1 1/2W, S into

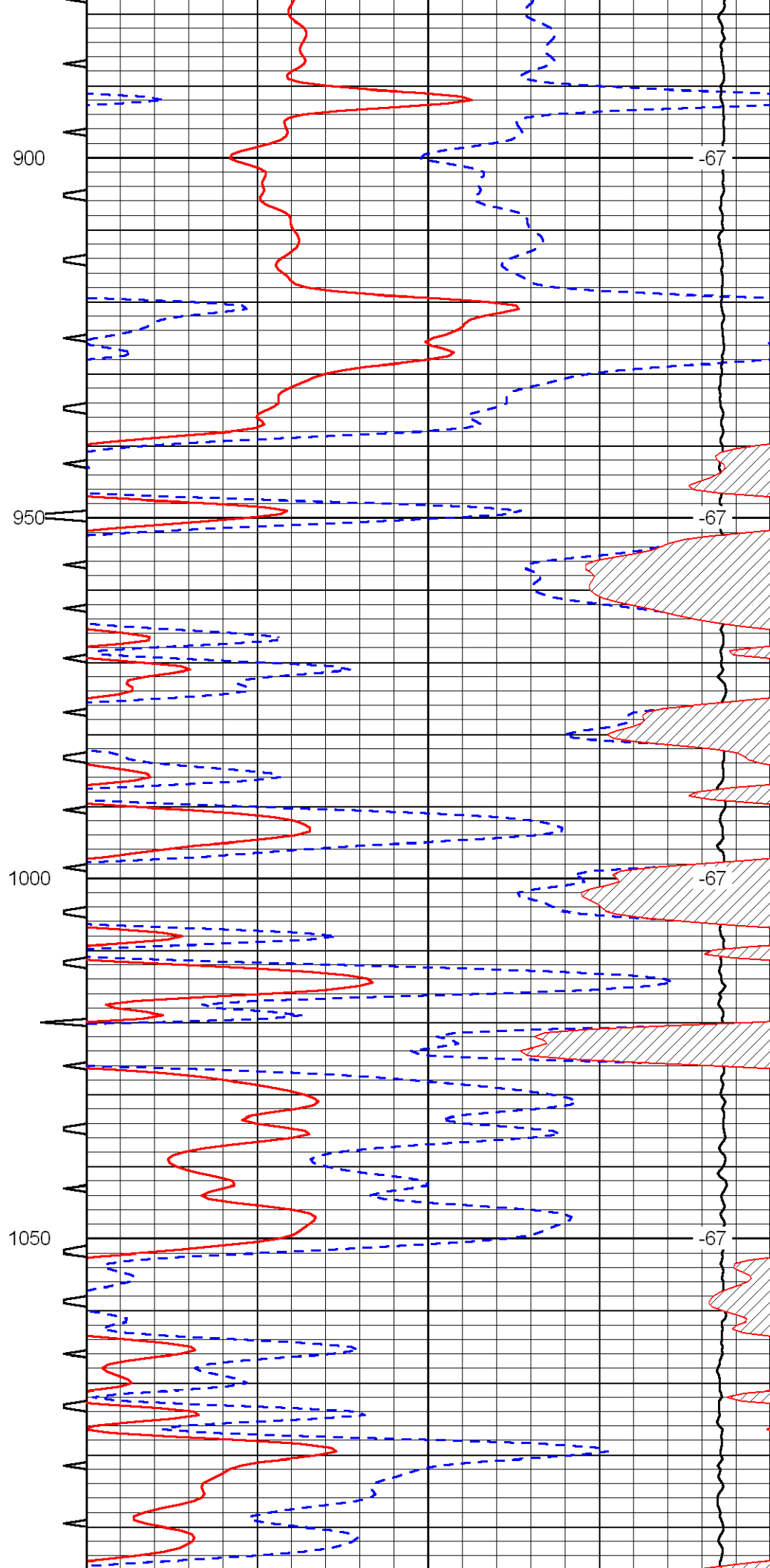
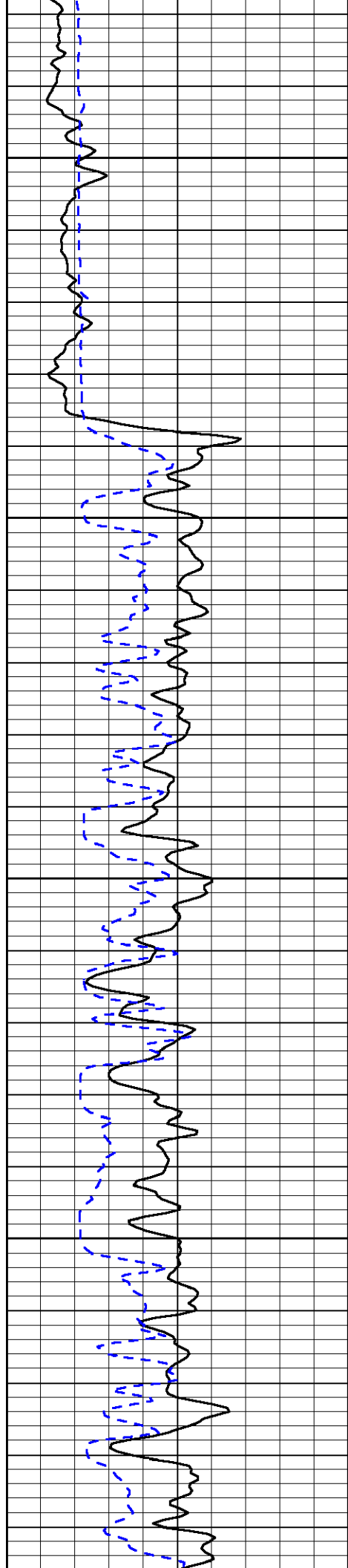
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Dataset Pathname: dil/chmain
Presentation Format: sonic
Dataset Creation: Tue Aug 28 02:22:48 2012
Charted by: Depth in Feet scaled 1:240

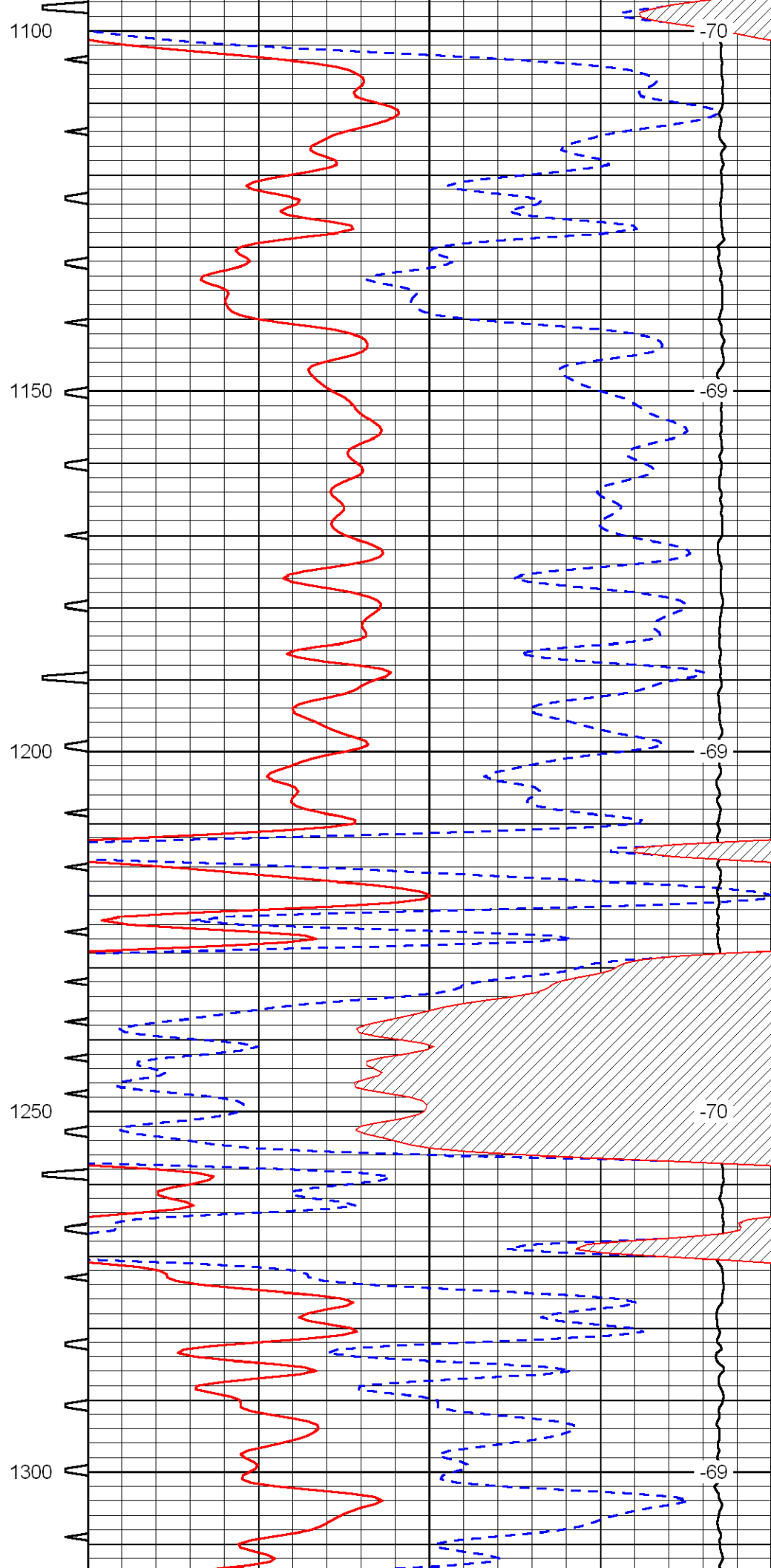
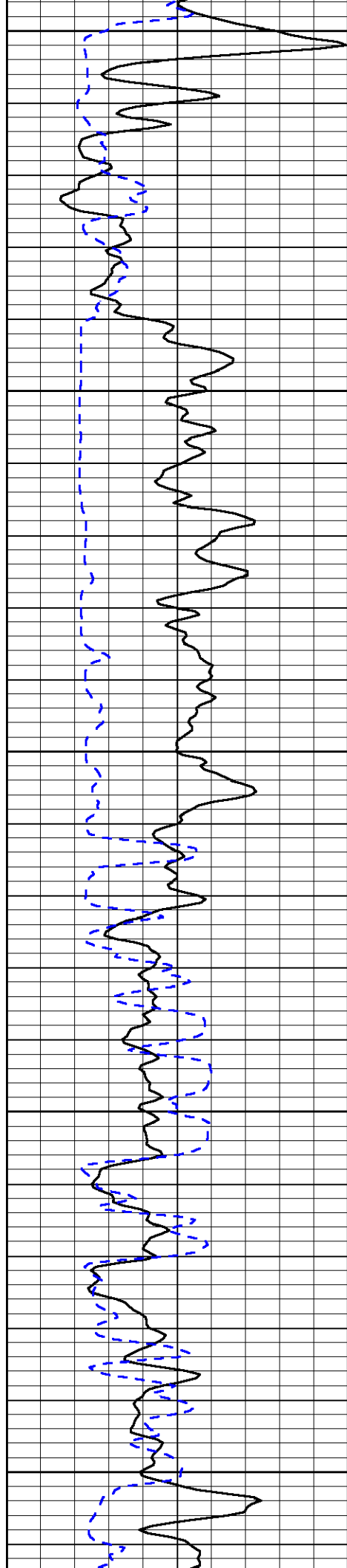
0	Gamma Ray	150	Sonic Int	140	Delta Time (usec/ft)	40
150	Gamma Ray	300	5	0	Sonic Porosity	-10
6	dCAL (GAPI)	16		30	LTEN (lb)	0
				15000		
						LSPD

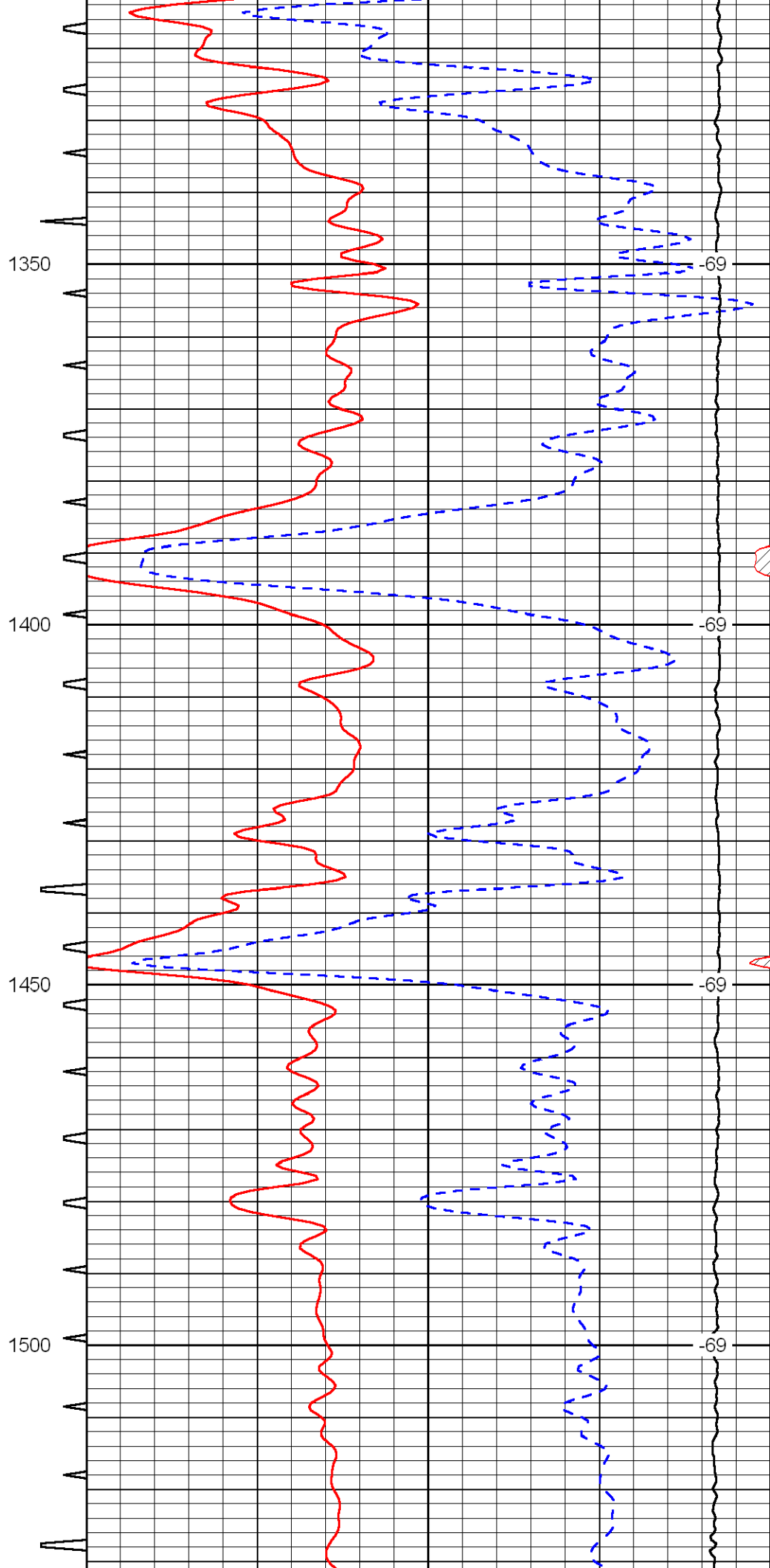
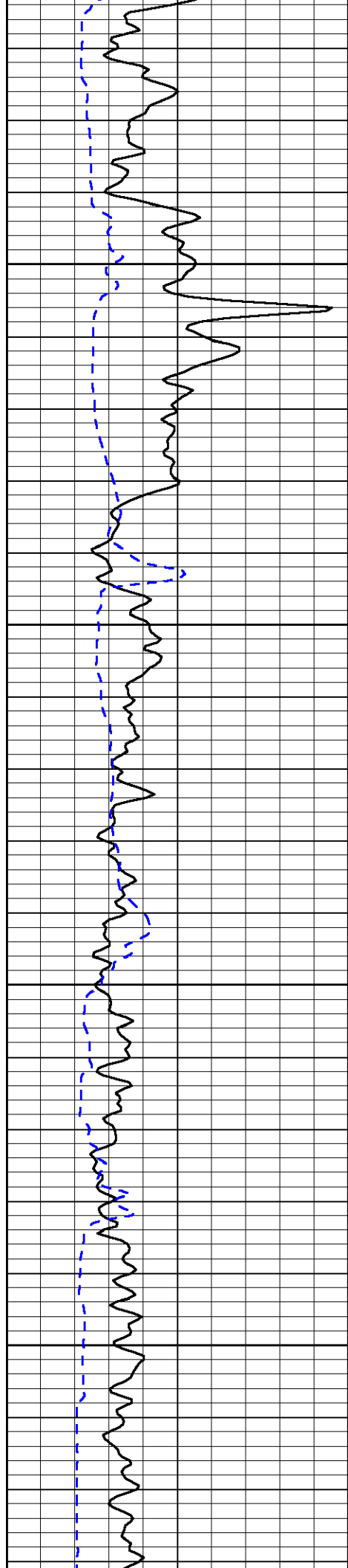


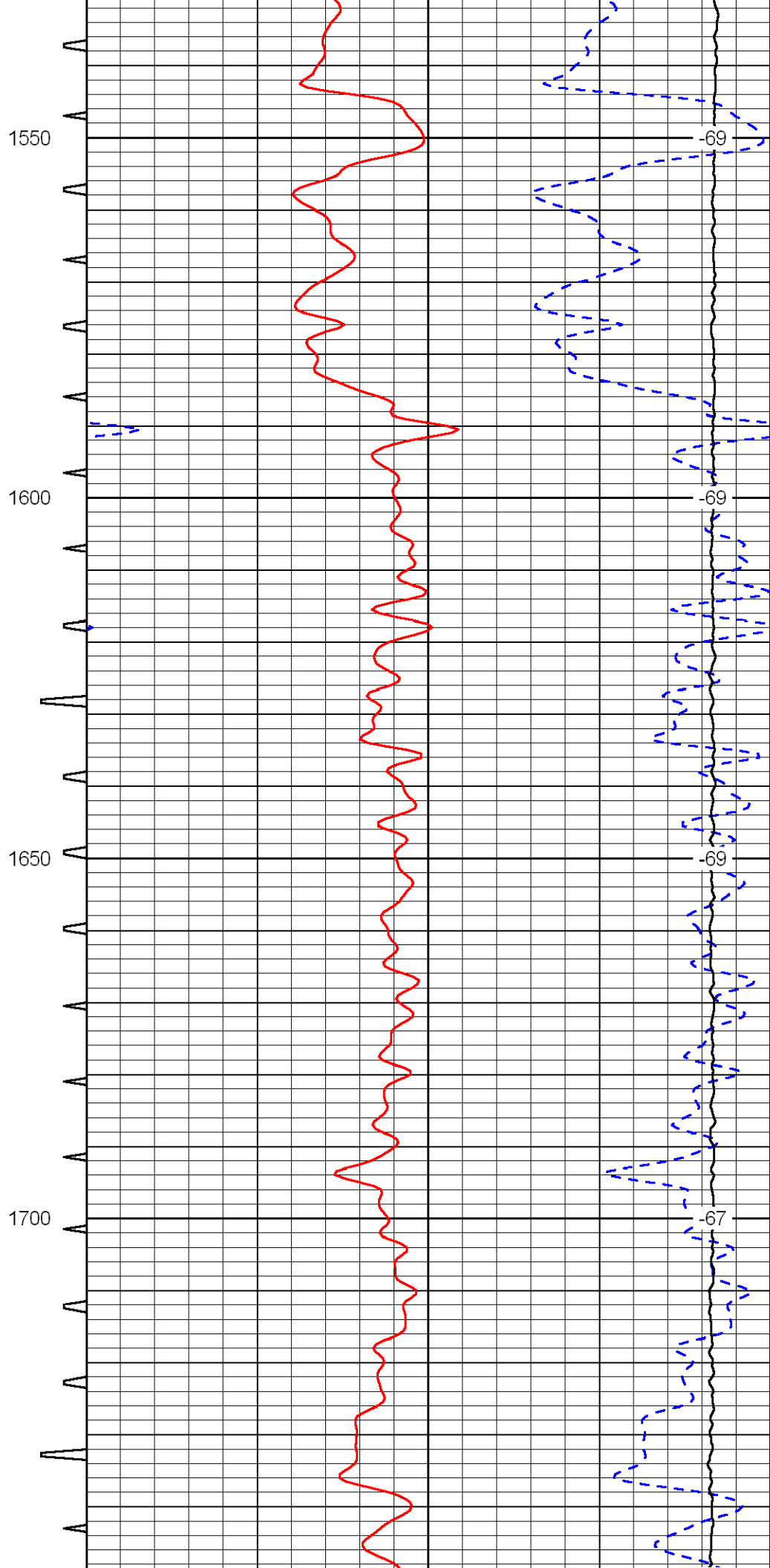
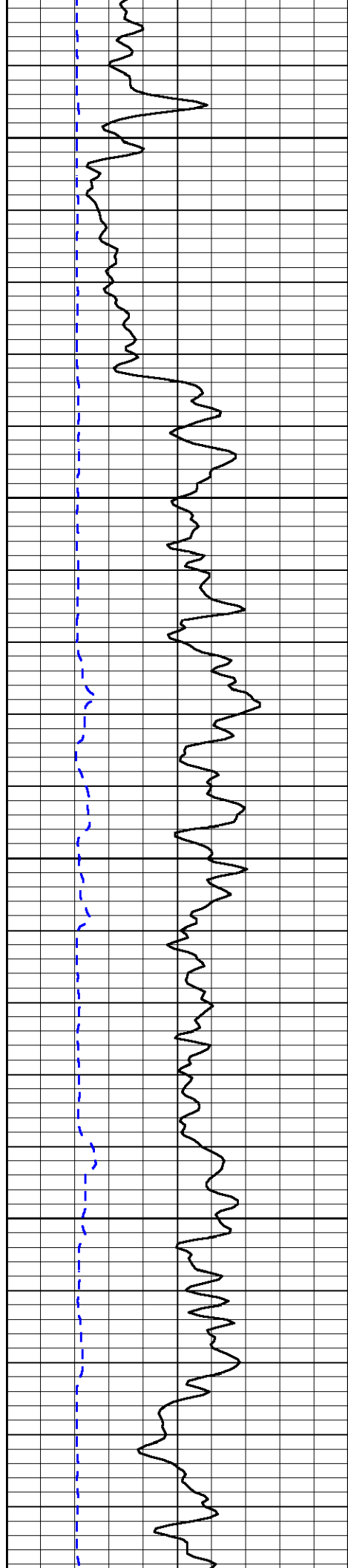


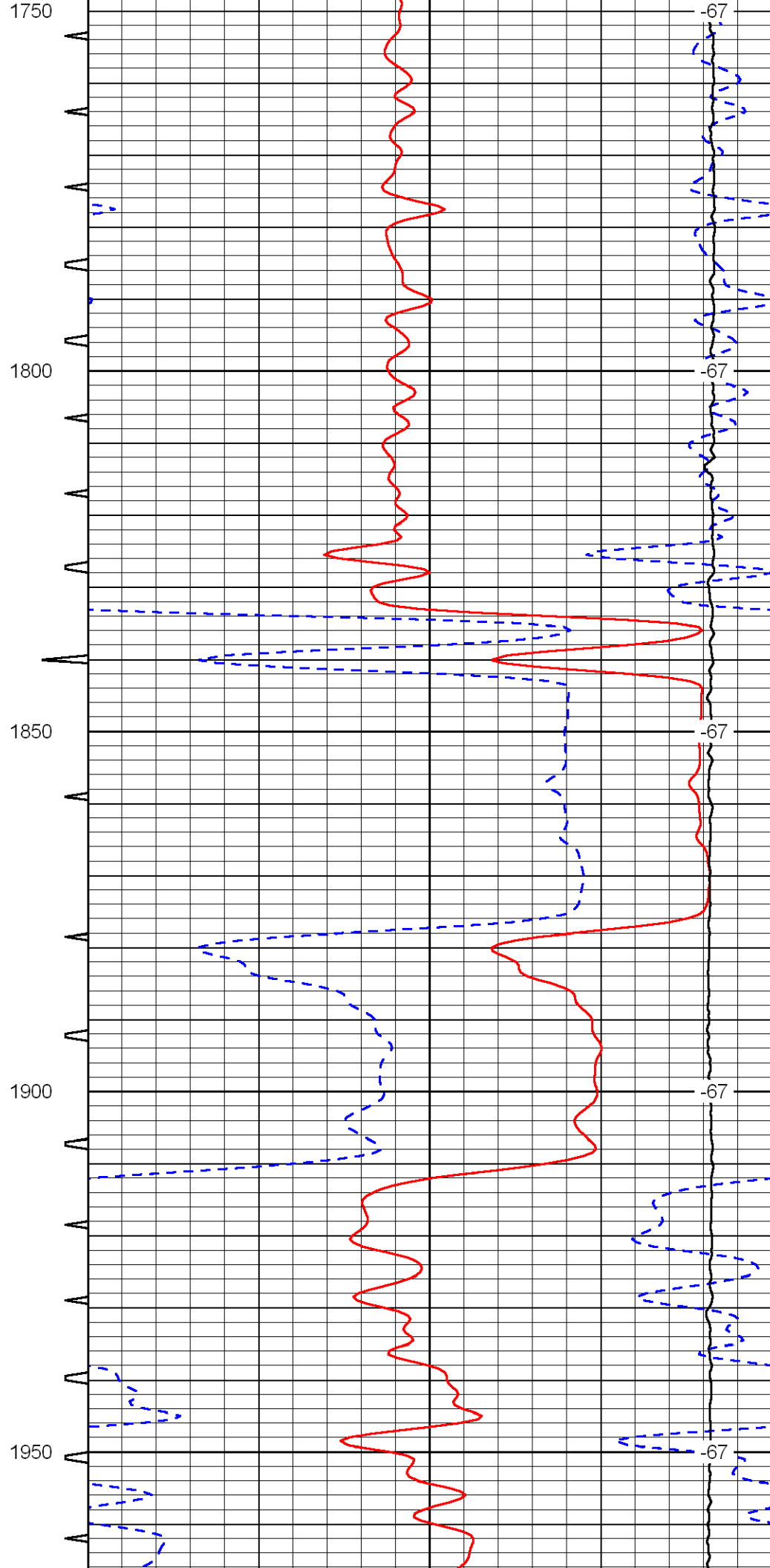
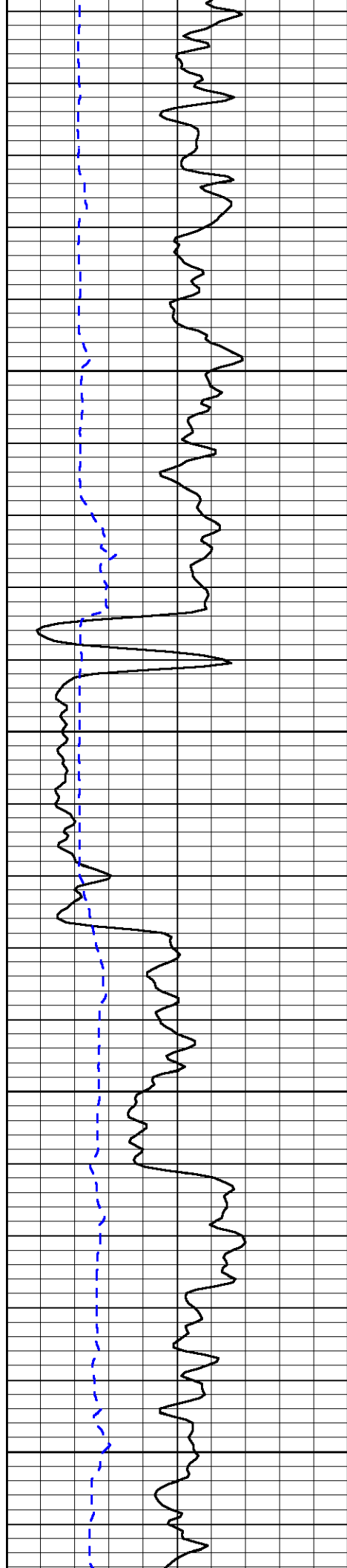


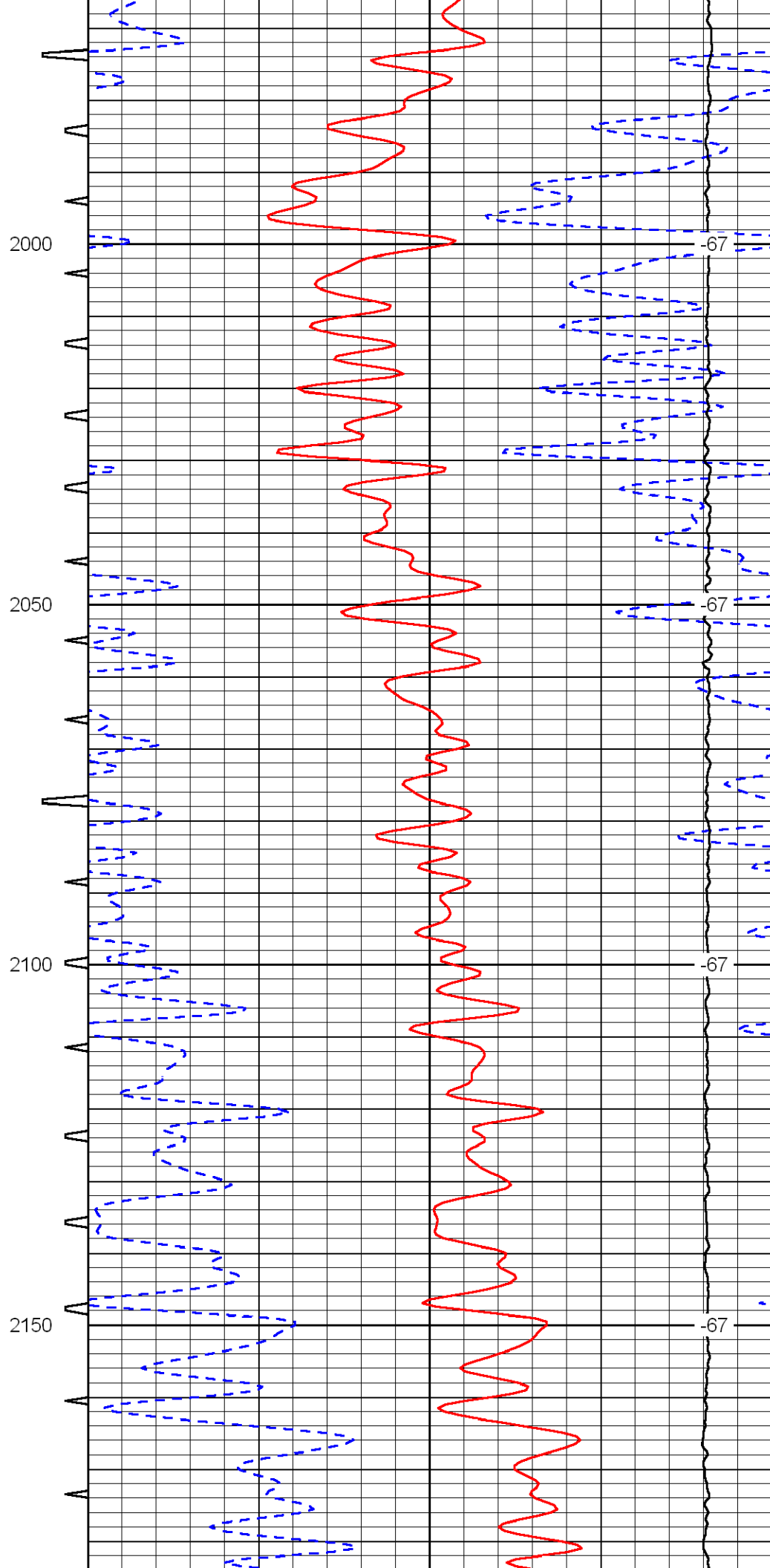
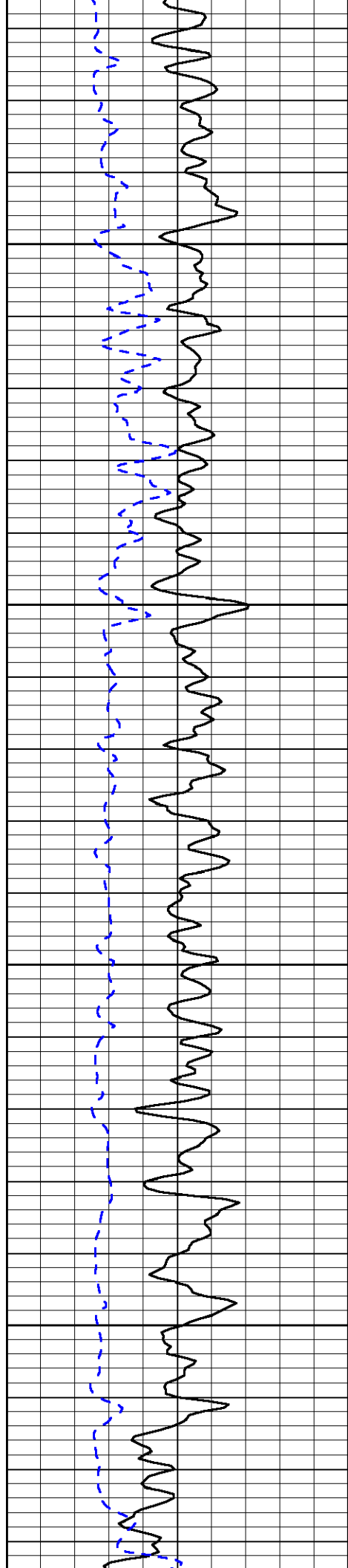


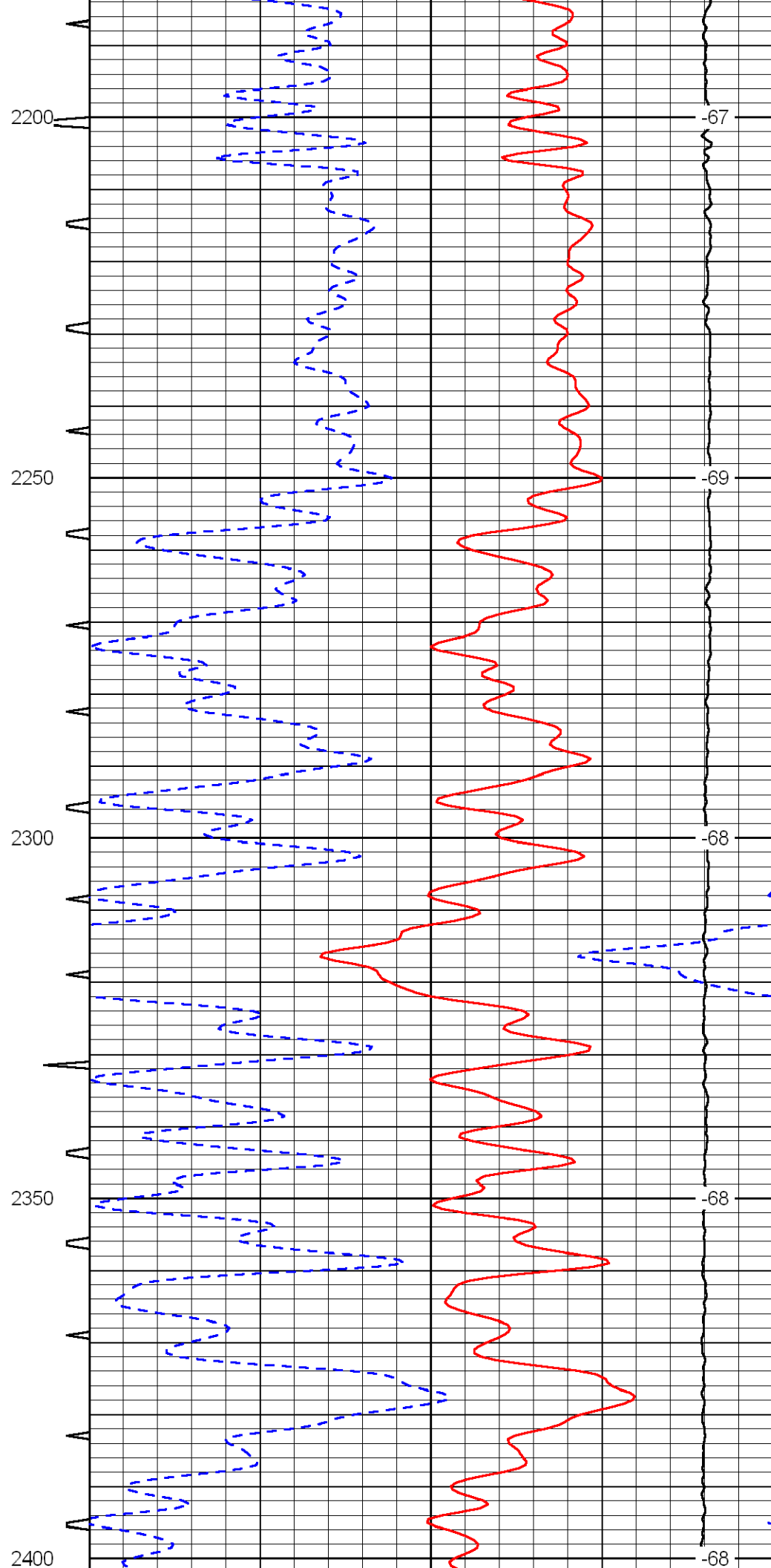
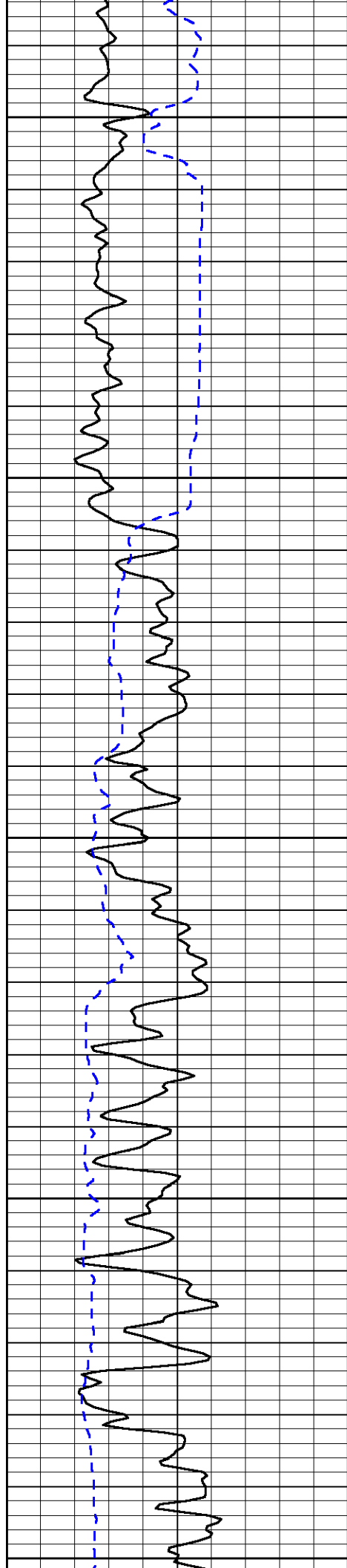


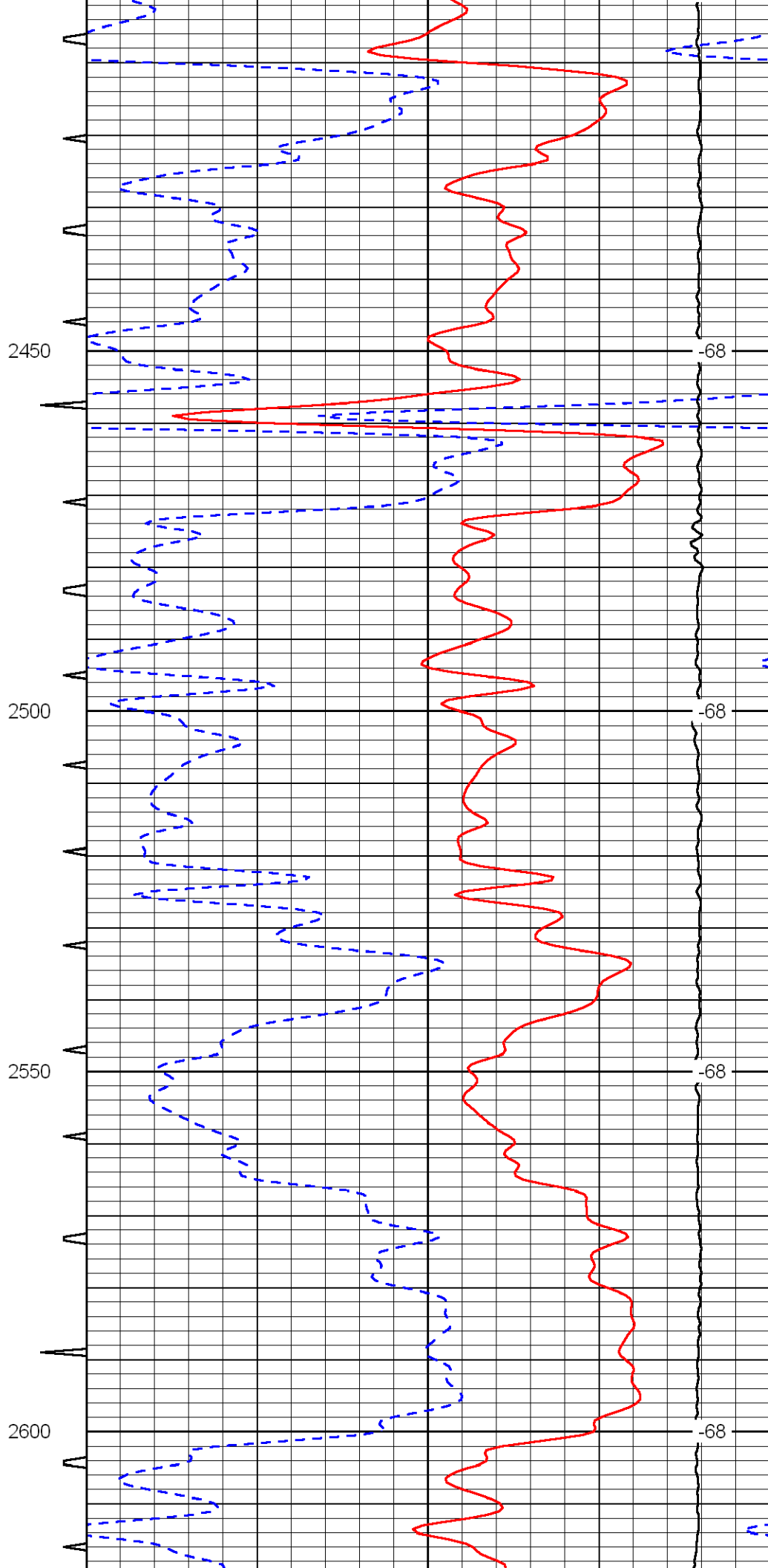
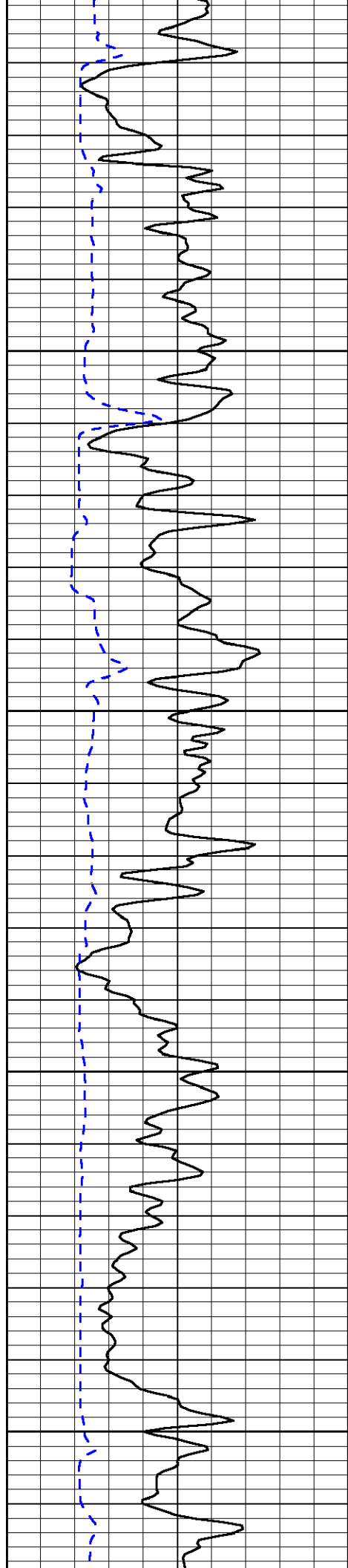


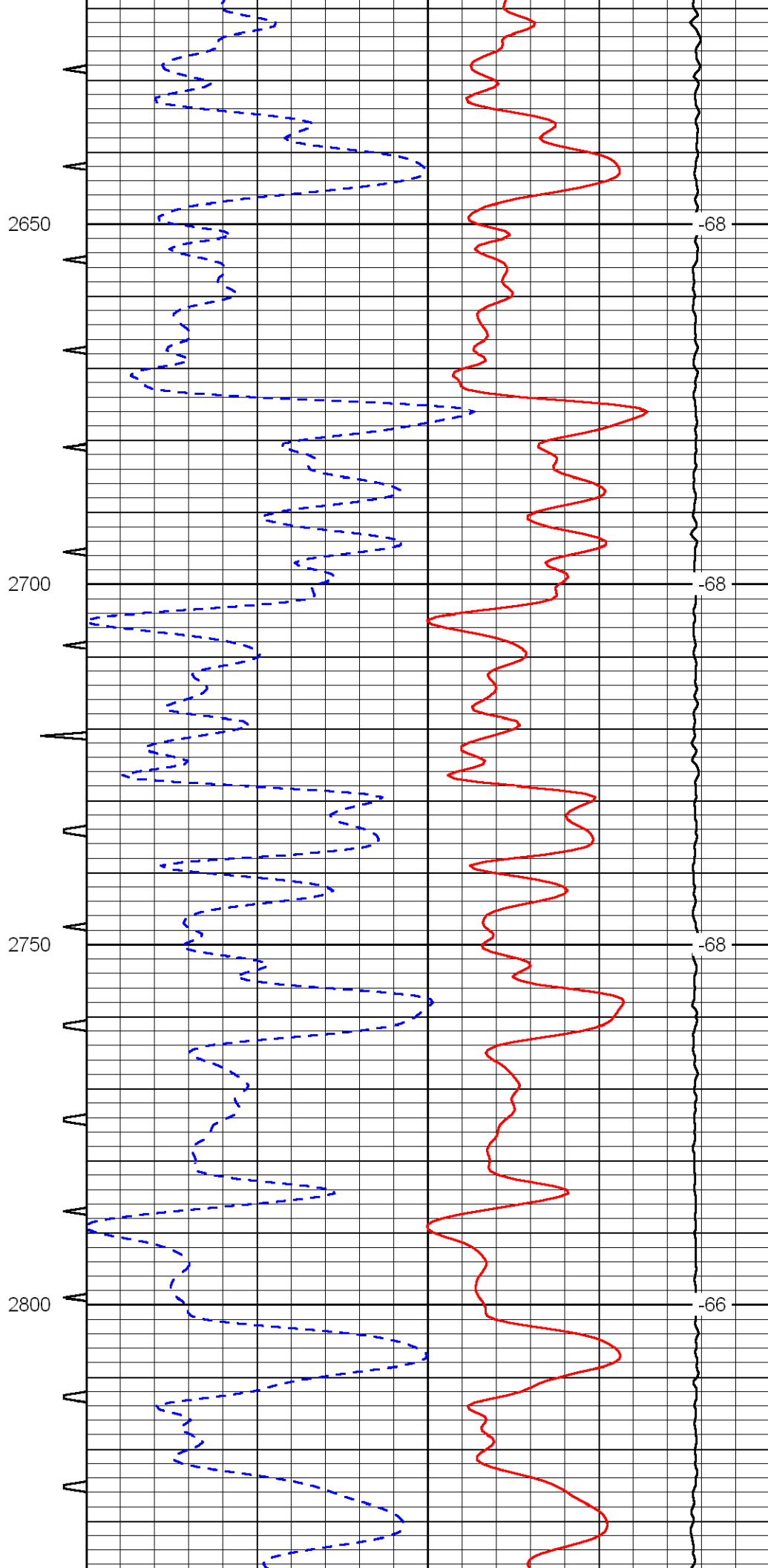
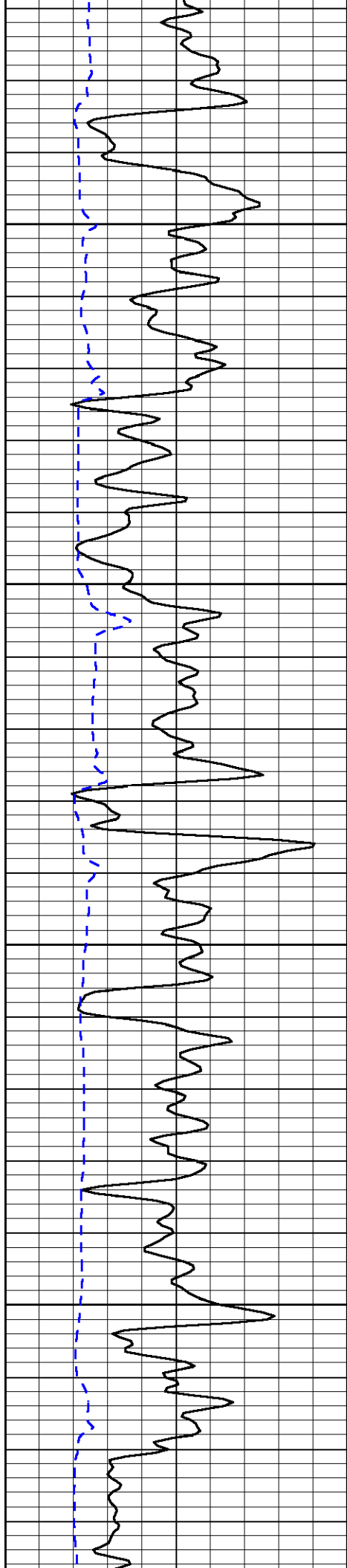


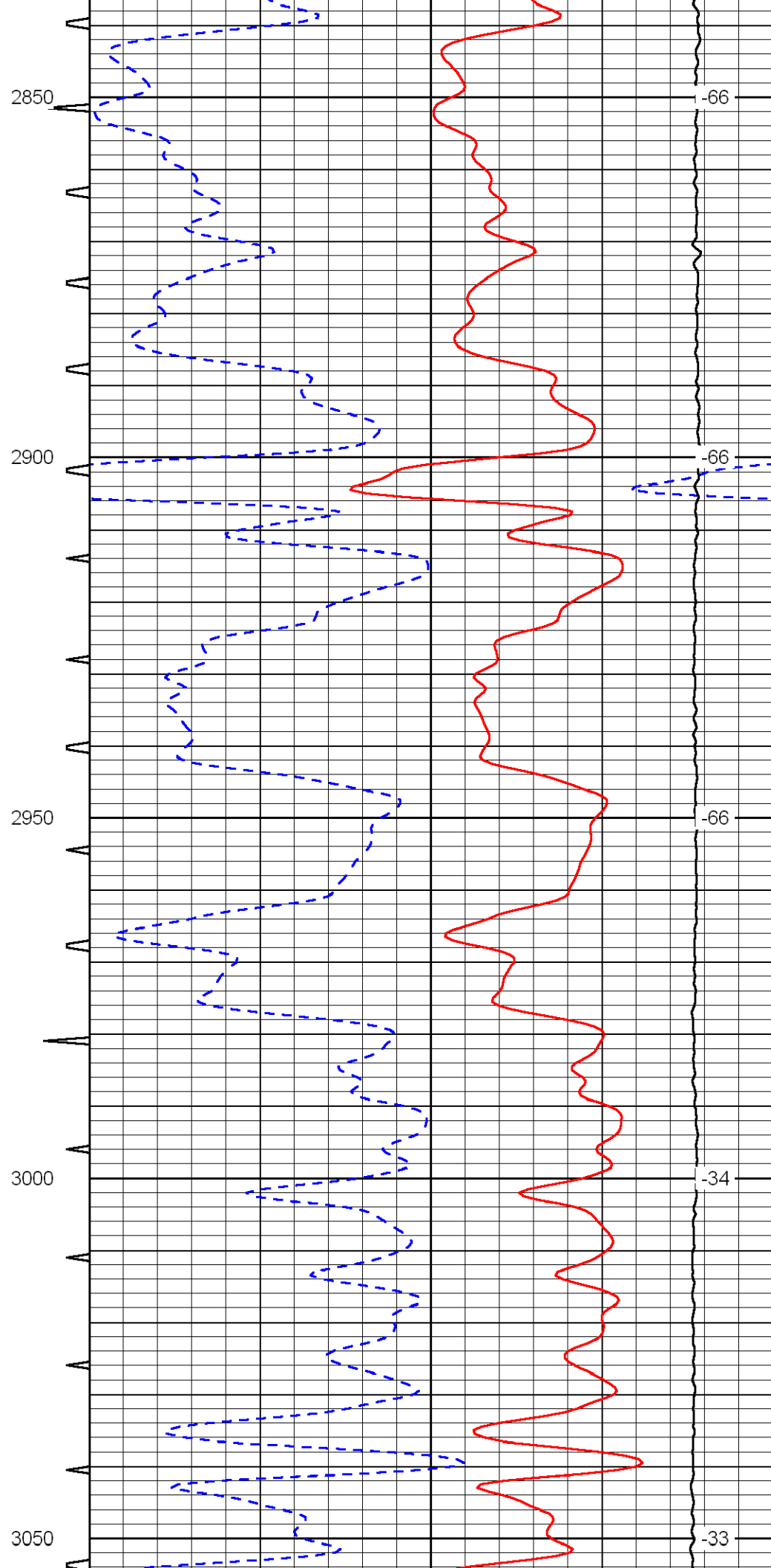
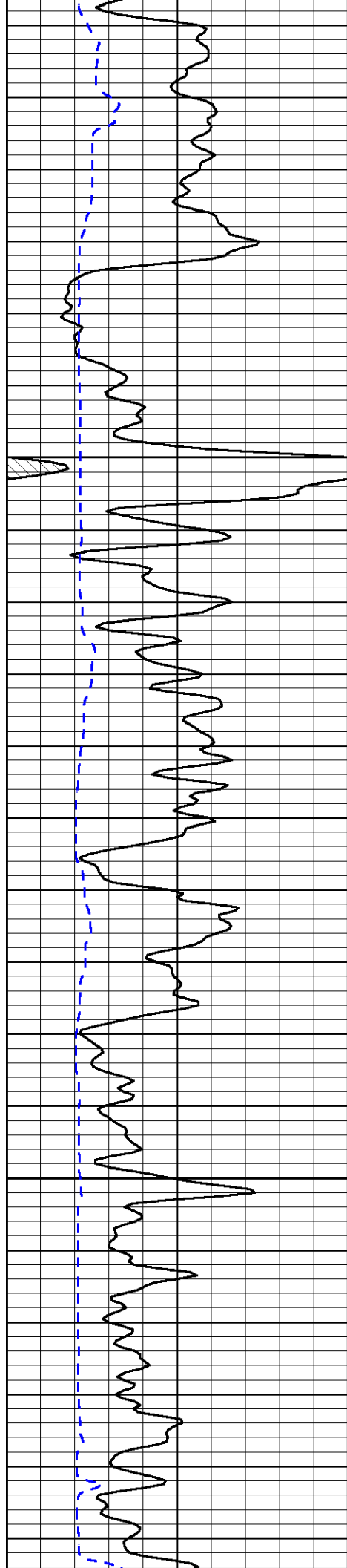


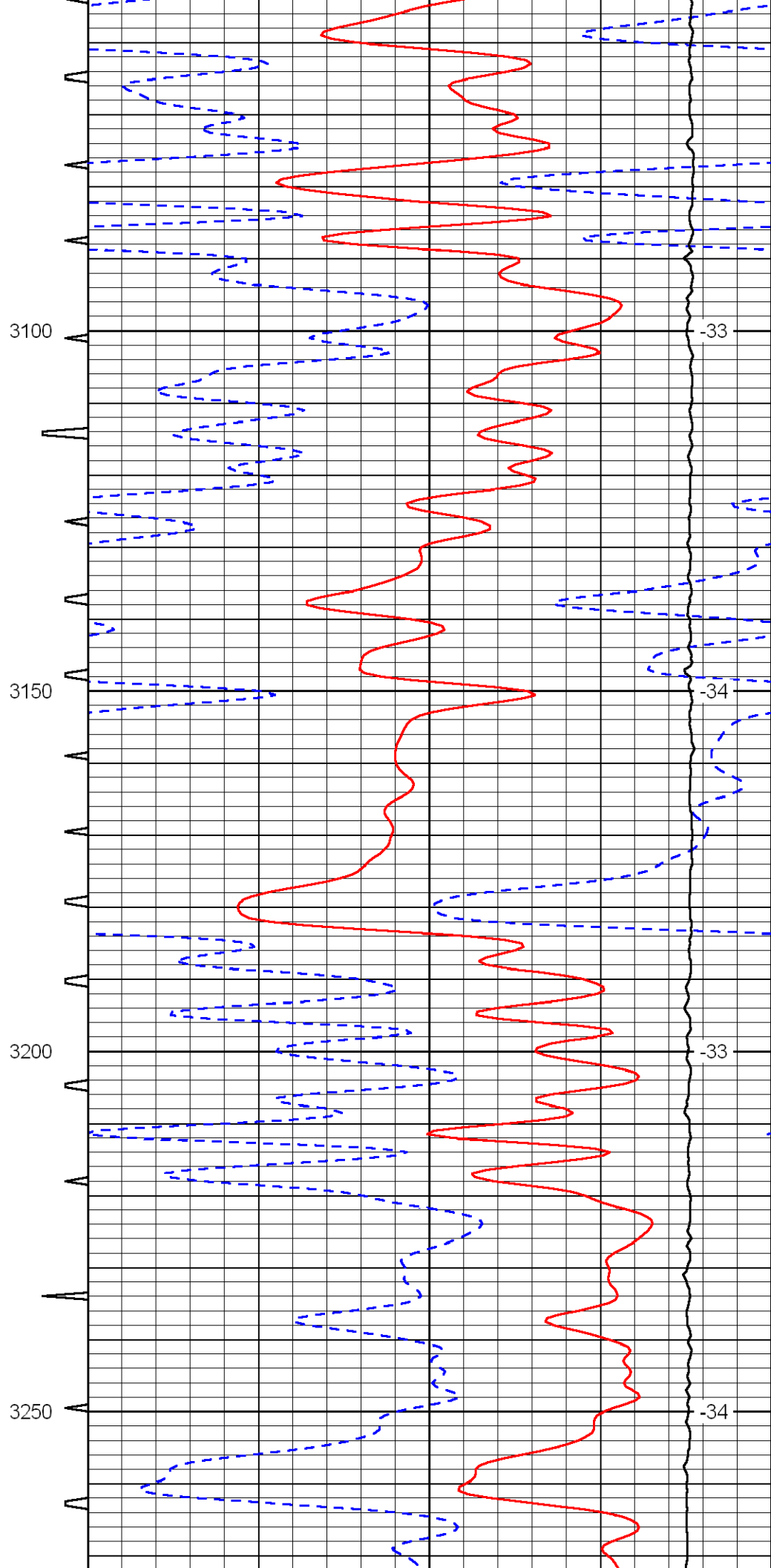
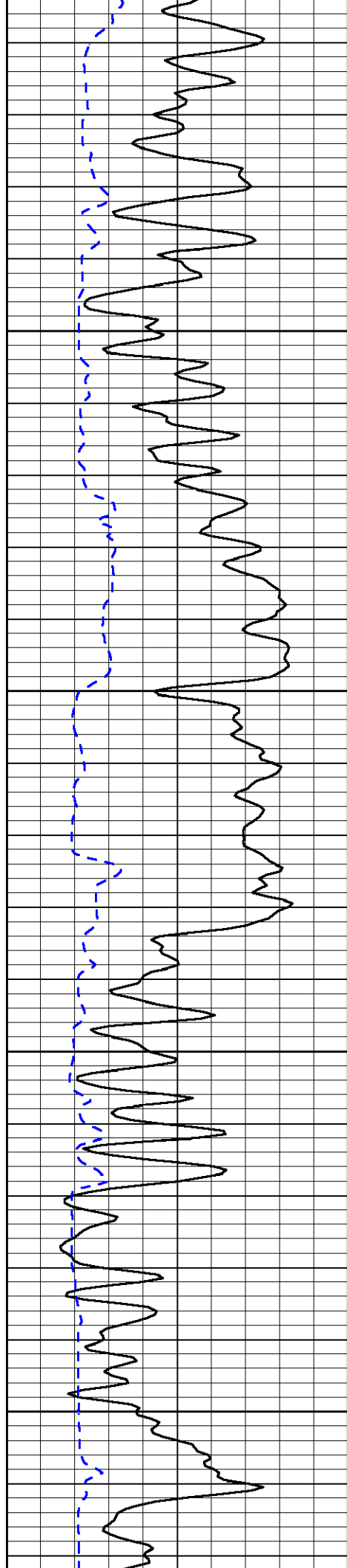


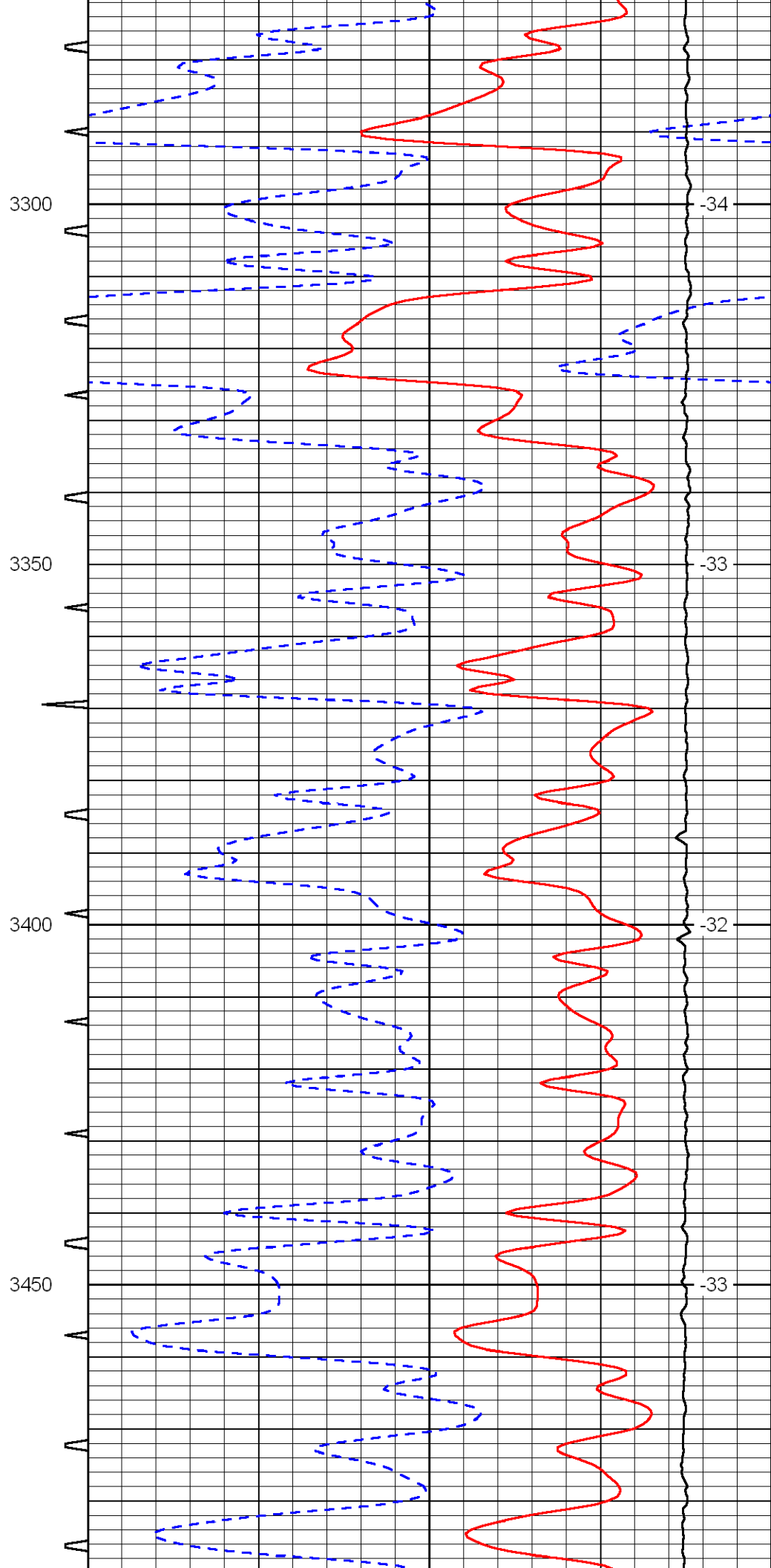
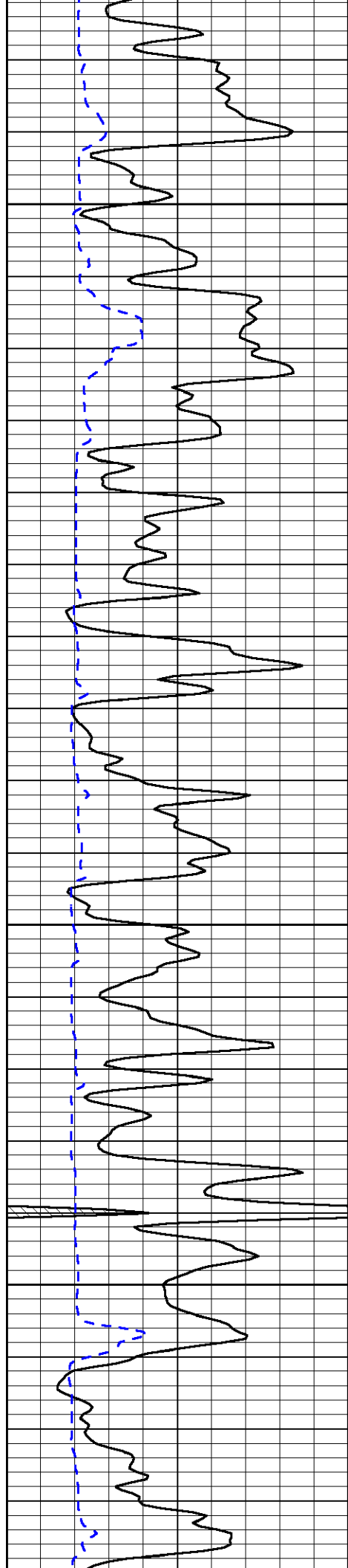


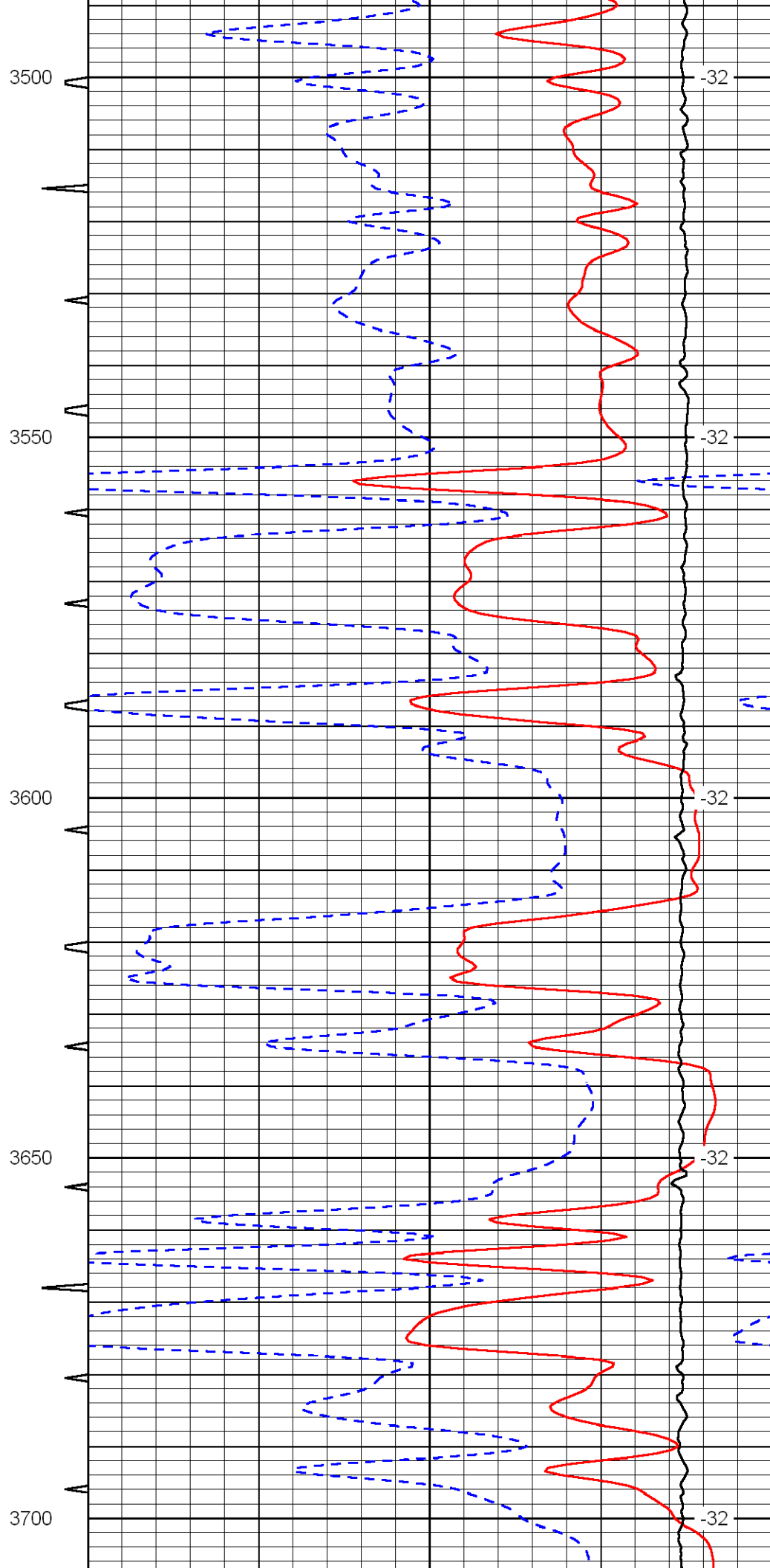
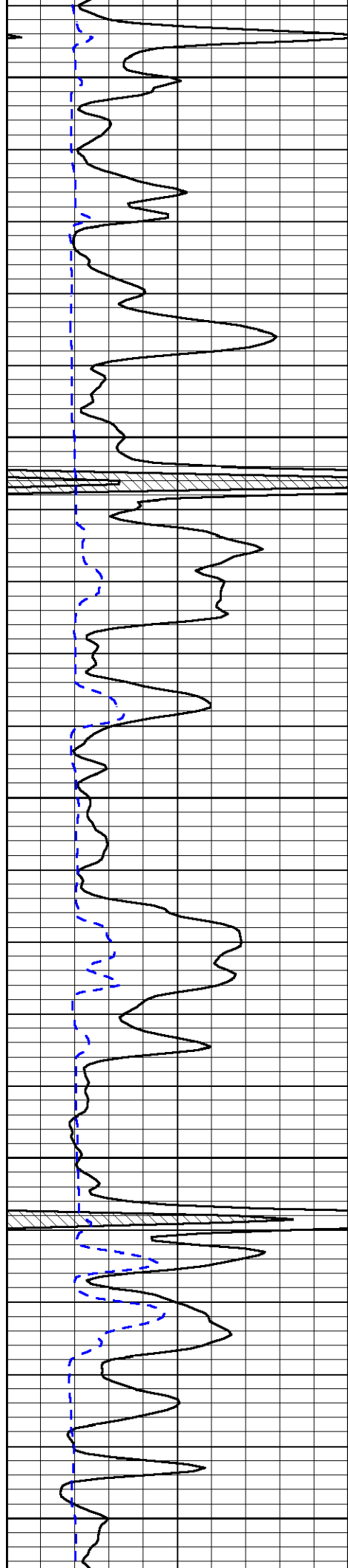


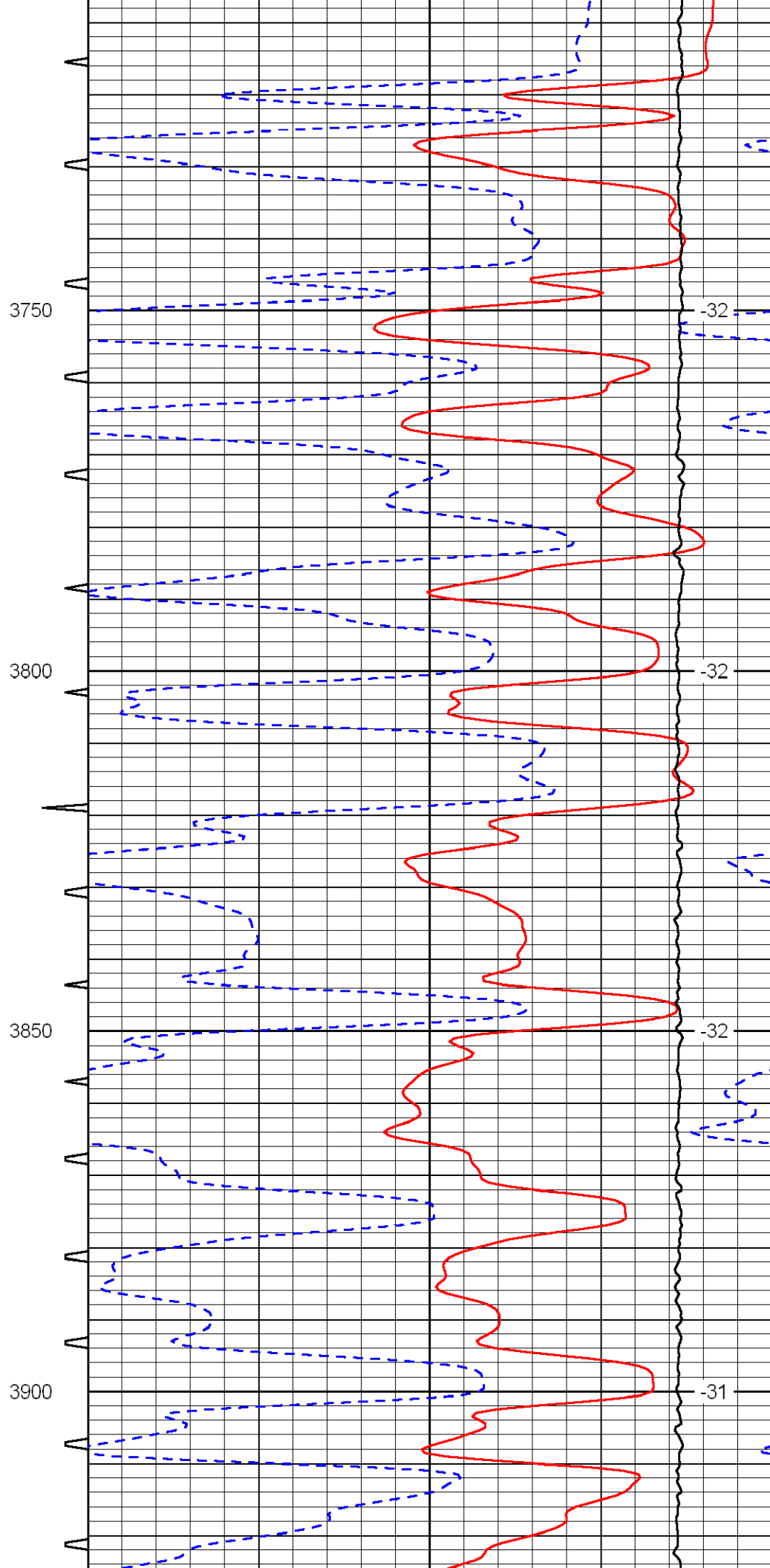
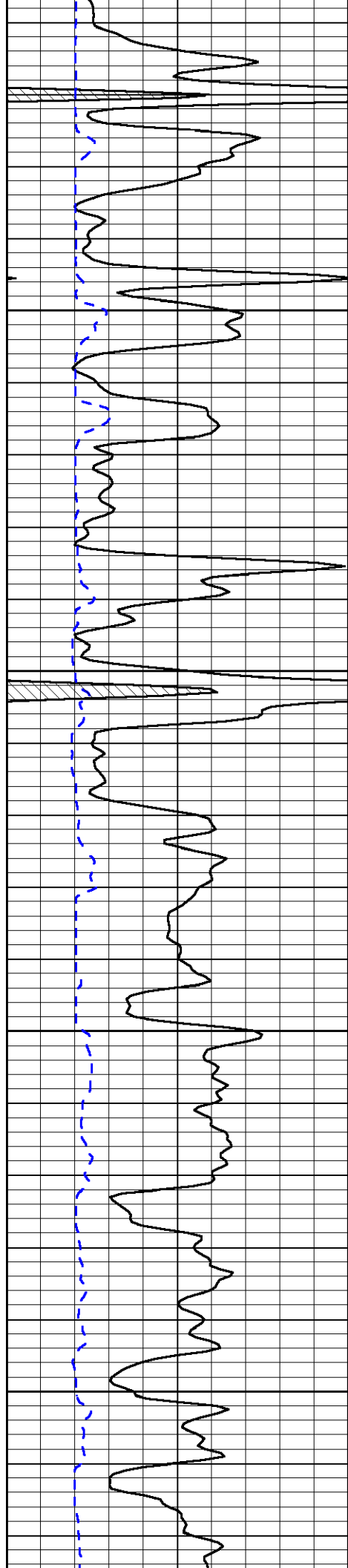


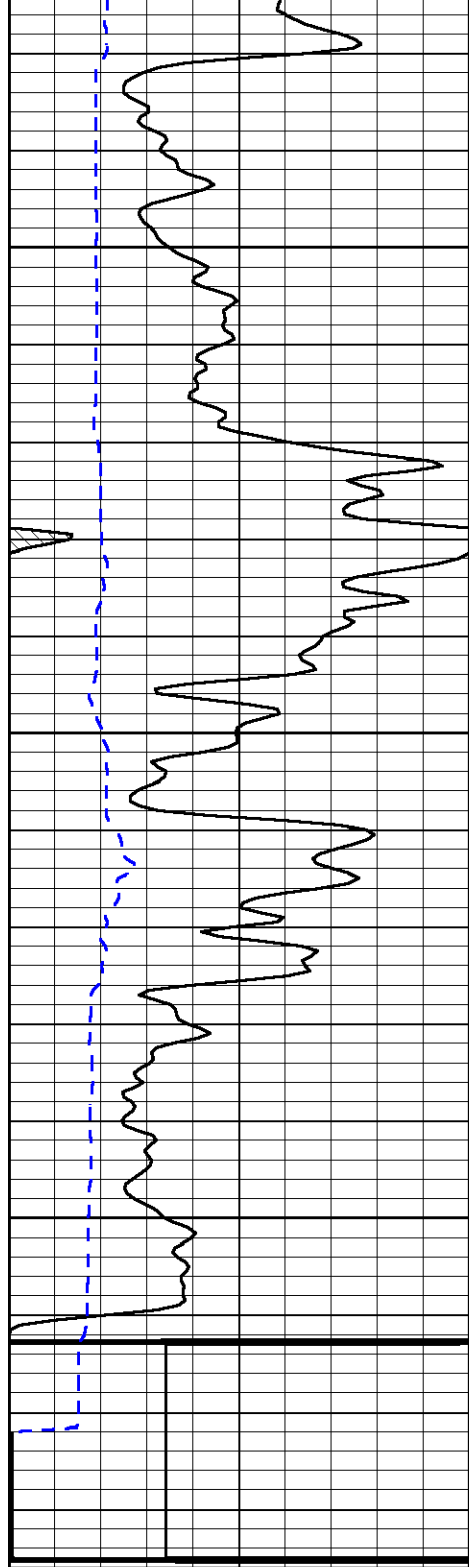




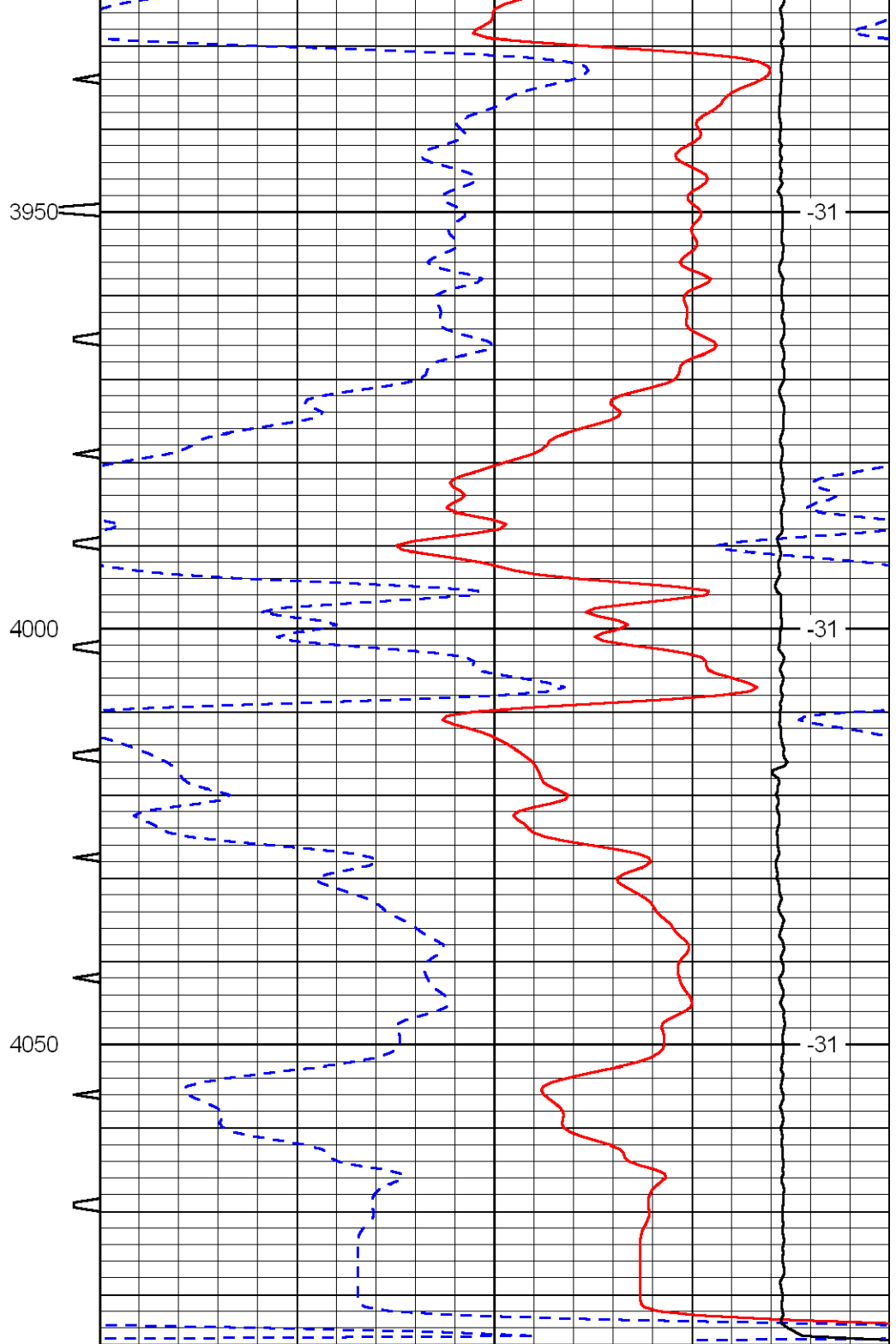








0	Gamma Ray	150
150	Gamma Ray	300
6	dCAL (GAPI)	16



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

LSPD