



Borehole Compensated Sonic Log

Pioneer Energy Services

API No.

15-195-22929-00-00

Company **Murfin Drilling Company, Inc.**

Well **Hobbs #2-2**

Field **Saline Valley**

County **Trego**

State **Kansas**

Location

2310' FNL & 1648' FWL

Other Services
CNL/CDL
MEL/DIL

Sec: **2**

Twp: **11S**

Rge: **24W**

Elevation

Permanent Datum

Ground Level
Kelly Bushing

Elevation **2330**
5 Ft. Above Perm. Datum

Log Measured From

Kelly Bushing

Elevation **2335**
D.F. **2330**

Drilling Measured From

Kelly Bushing

Elevation **2330**
G.L. **2330**

Date

4/7/2014

Run Number

Two

Type Log

BHC Sonic

Depth Driller

4029

Depth Logger

4027

Bottom Logged Interval

4016

Top Logged Interval

200

Type Fluid In Hole

Chemical

Salinity, PPM CL

3000

Density

9.0

Level

Full

Max. Rec. Temp. F

118

Operating Rig Time

5 Hours

Equipment -- Location

91 Hays

Recorded By

D. Schmidt

Witnessed By

Charles Schmalz

Borehole Record

Casing Record

Run No.

Bit

From

To

Size

Wgt.

From

To

One

12.25

00

219

8.625

23#

00

219

Two

7.875

219

TD

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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.

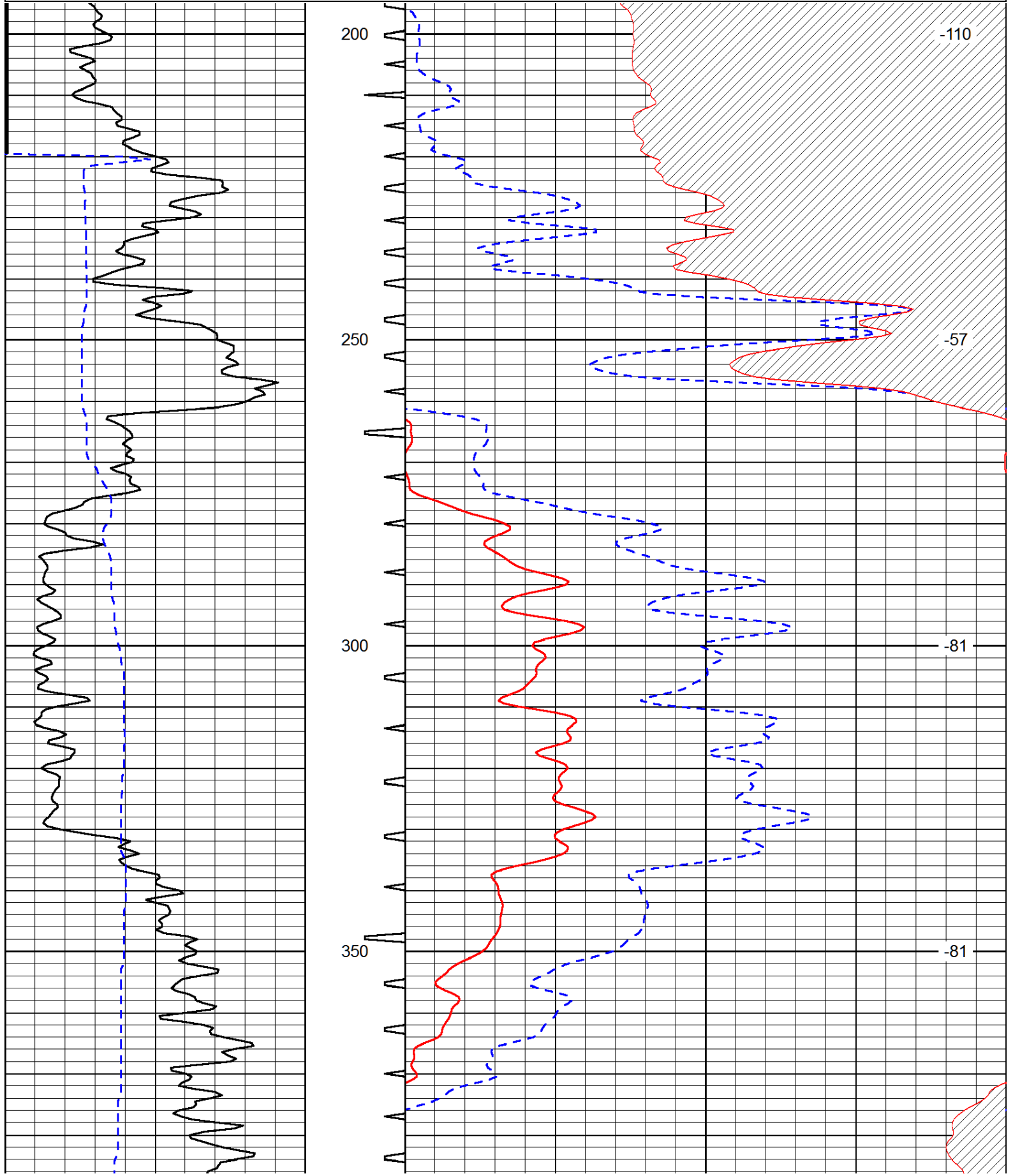
Comments

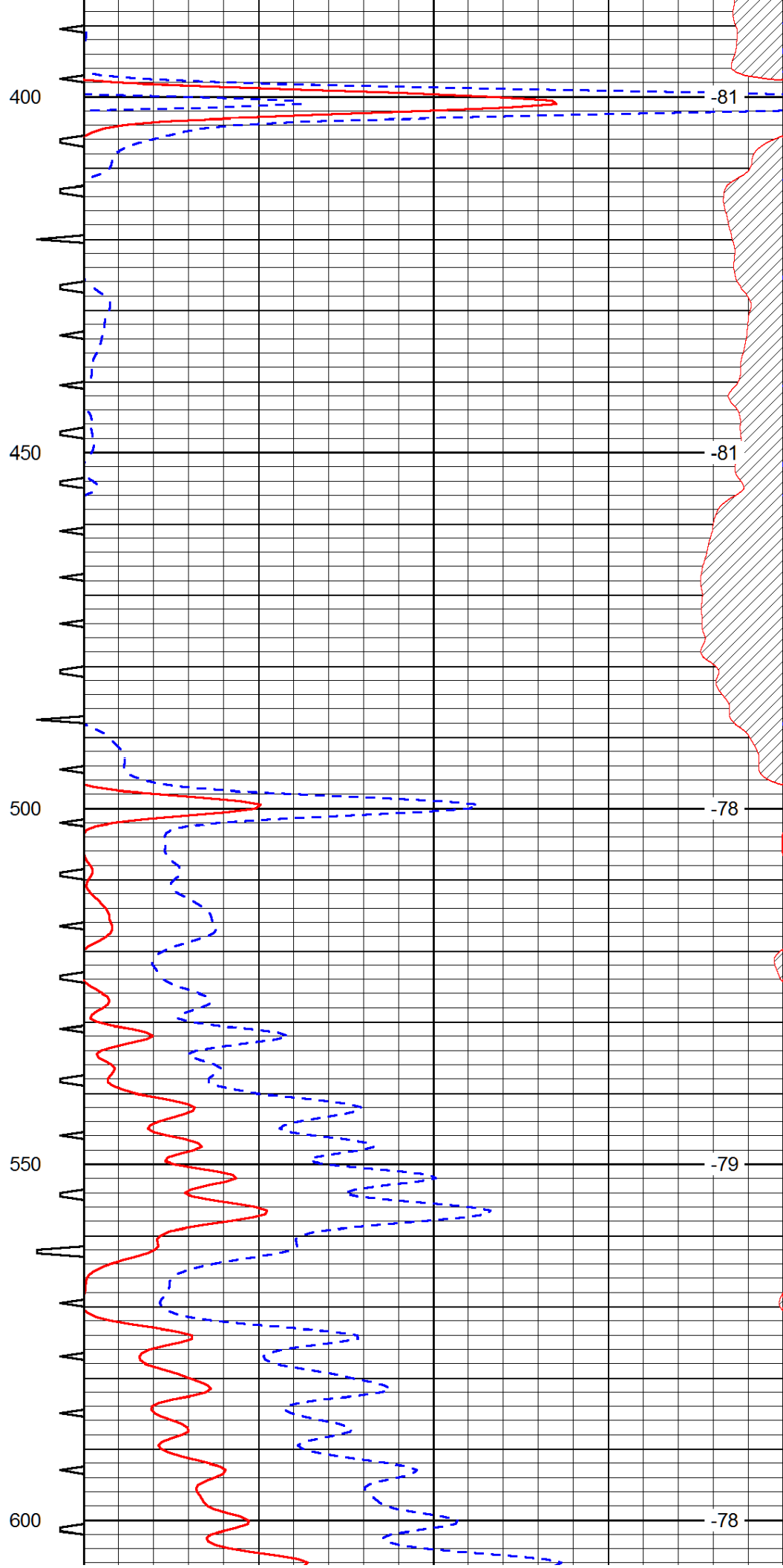
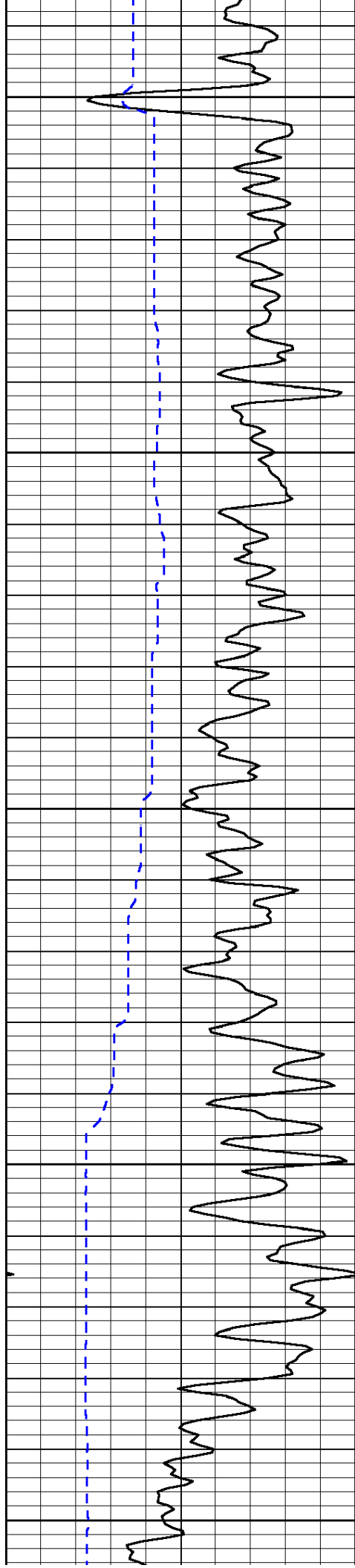
Thank you for using Log-Tech, Inc.
(785) 625-3858

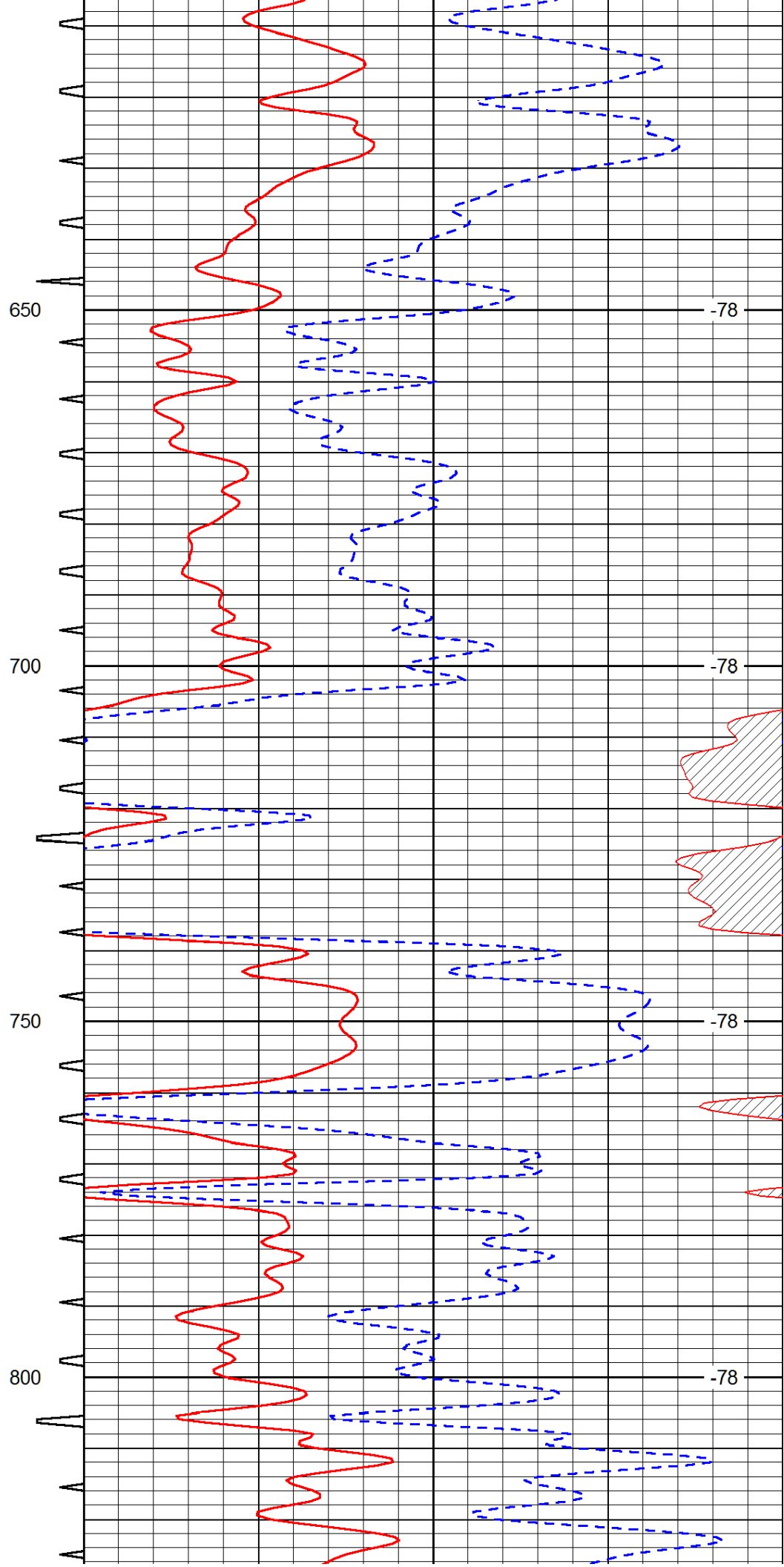
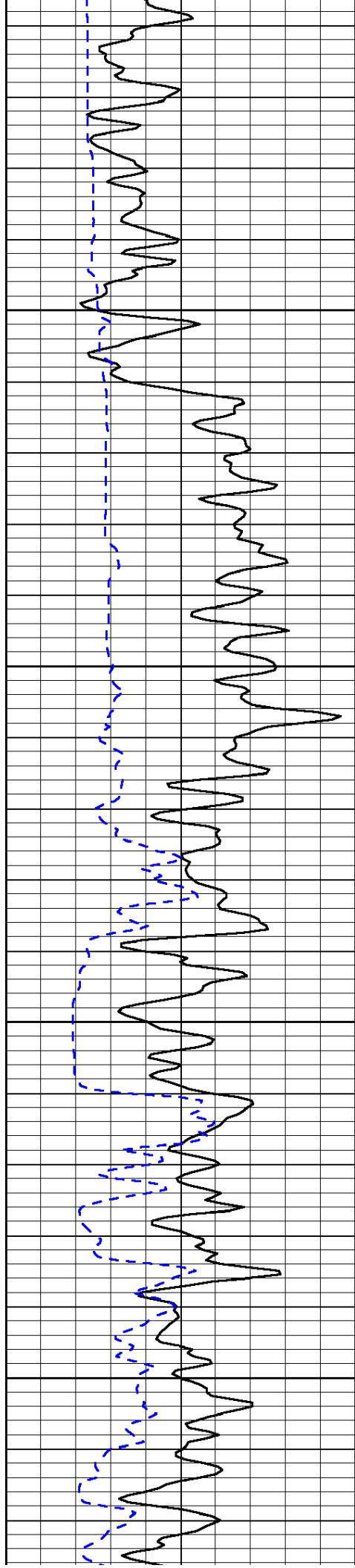
Wakeeney,
North on Hwy 281 to B Rd, 5 West to 210 Rd, 3/4 North,
East & South into

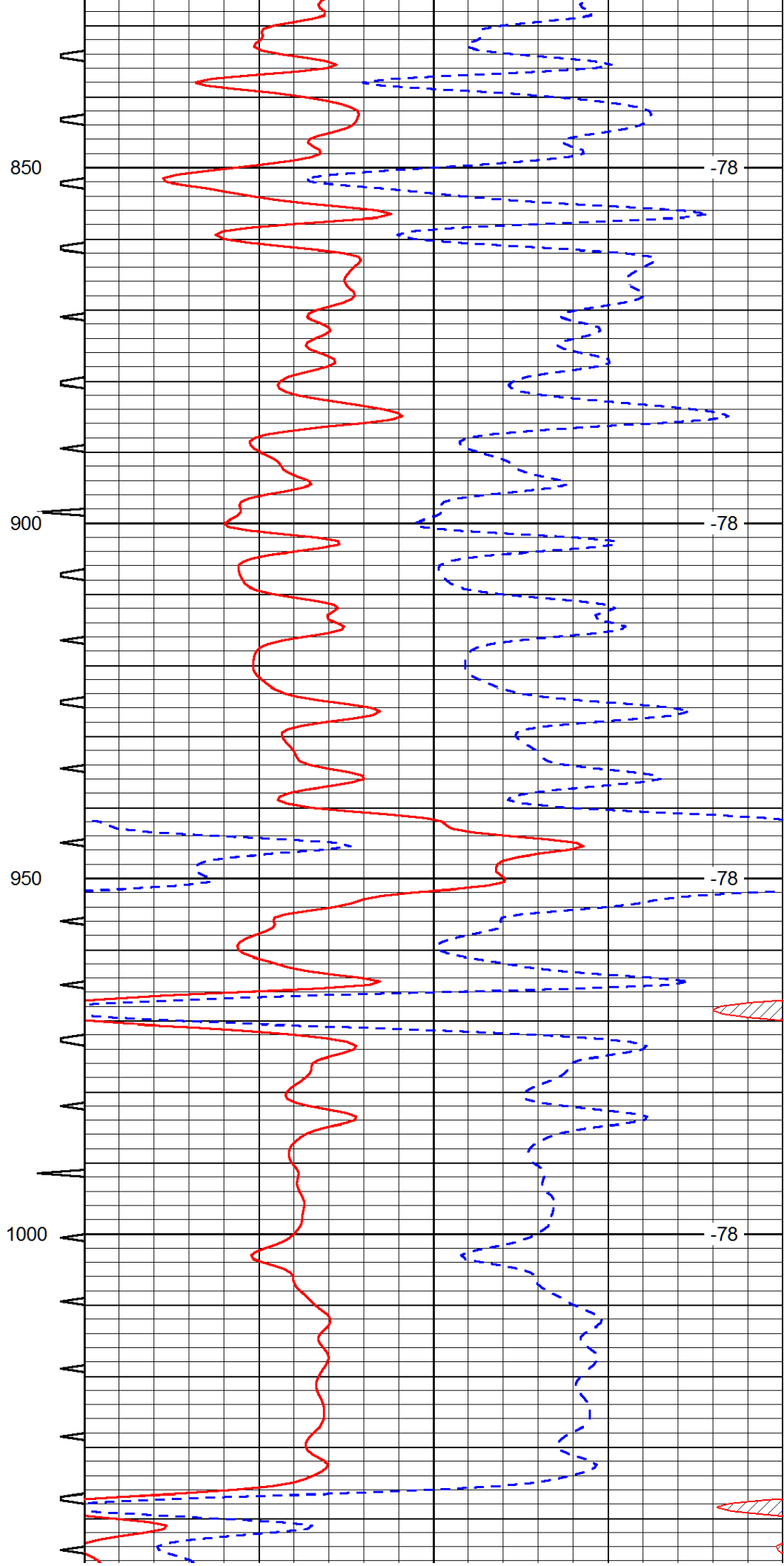
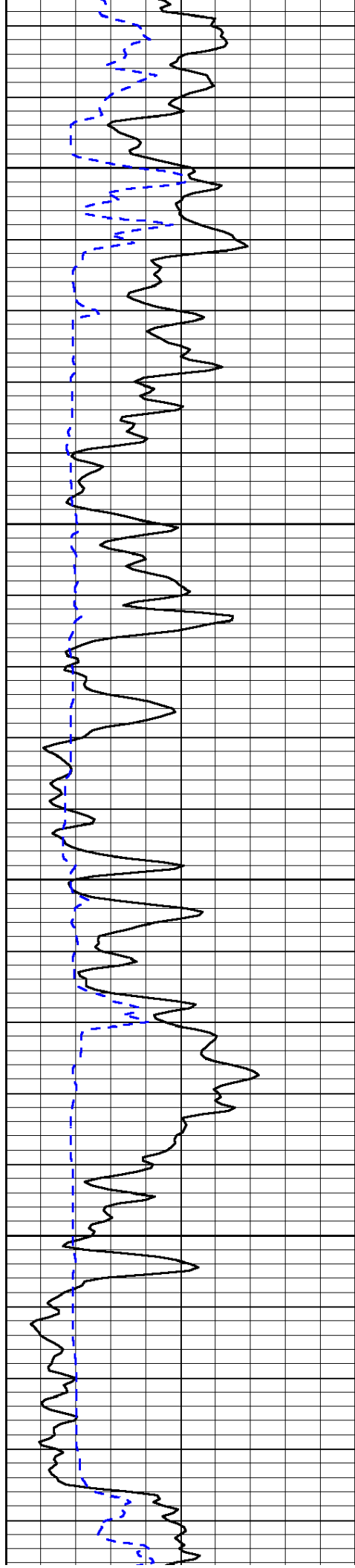
Database File: murfin2_040714hd.db
Dataset Pathname: dil/mrfstkml
Presentation Format: sonic
Dataset Creation: Mon Apr 07 14:30:13 2014
Charted by: Depth in Feet scaled 1:240

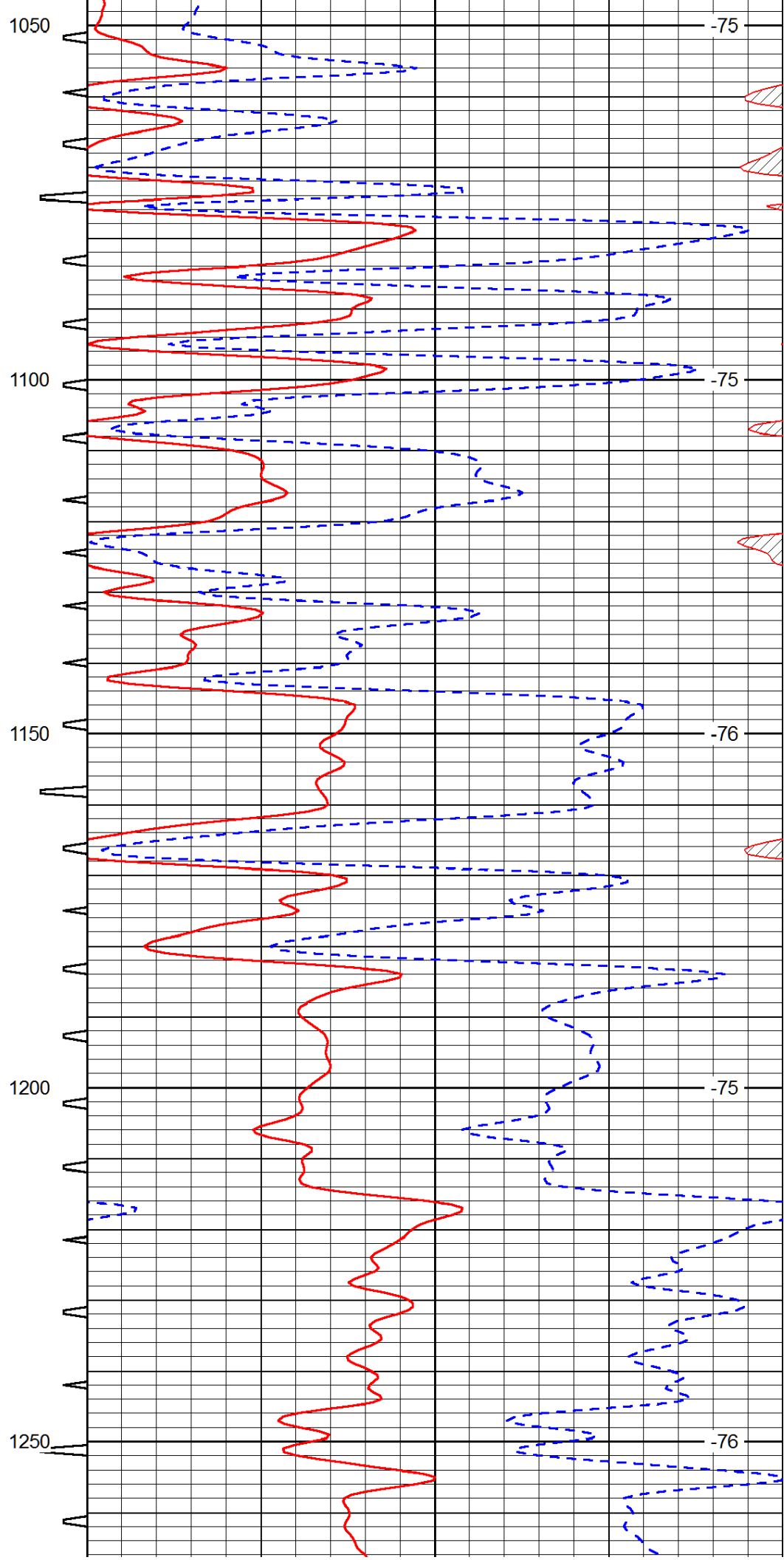
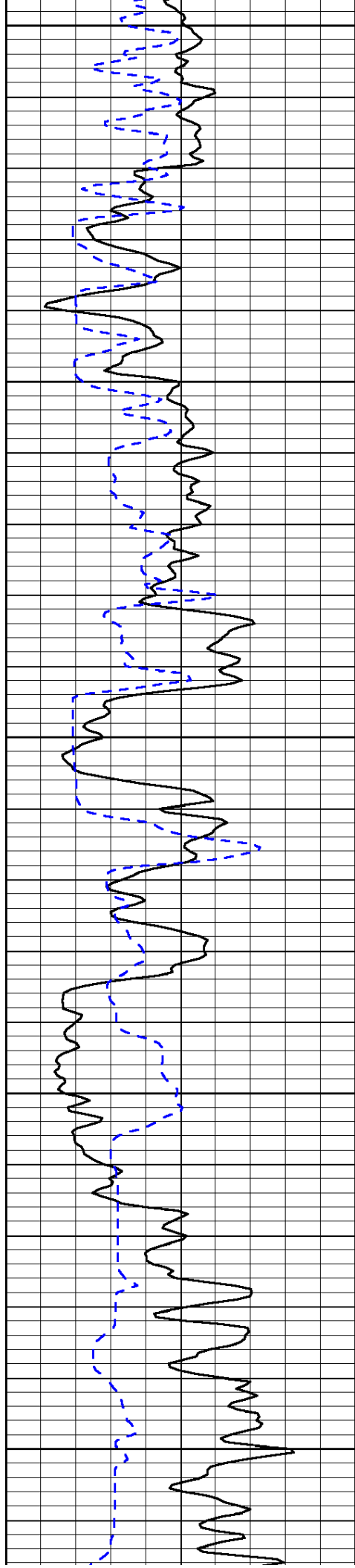
Charted by:		Depth in Feet scaled 1:210				
0	Gamma Ray (GAPI)	150	Sonic Int	140	Delta Time (usec/ft) (usec/ft)	40
150	Gamma Ray (GAPI)	300	5 (msec) 0	30	Sonic Porosity (pu)	-10
6	dCAL (in)	16		15000	LTEN (lb) (lb)	0
						LSPD (ft/min)

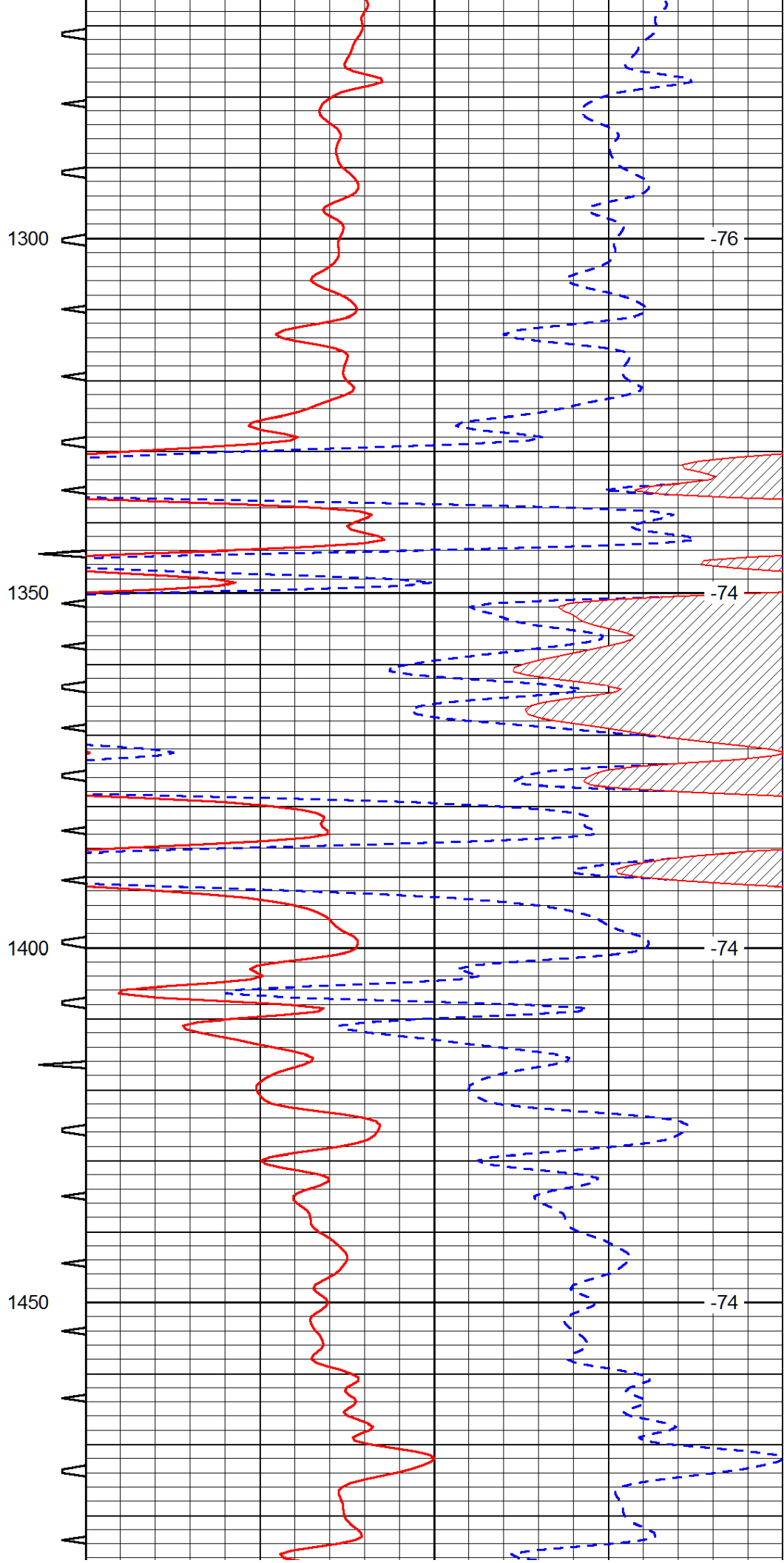
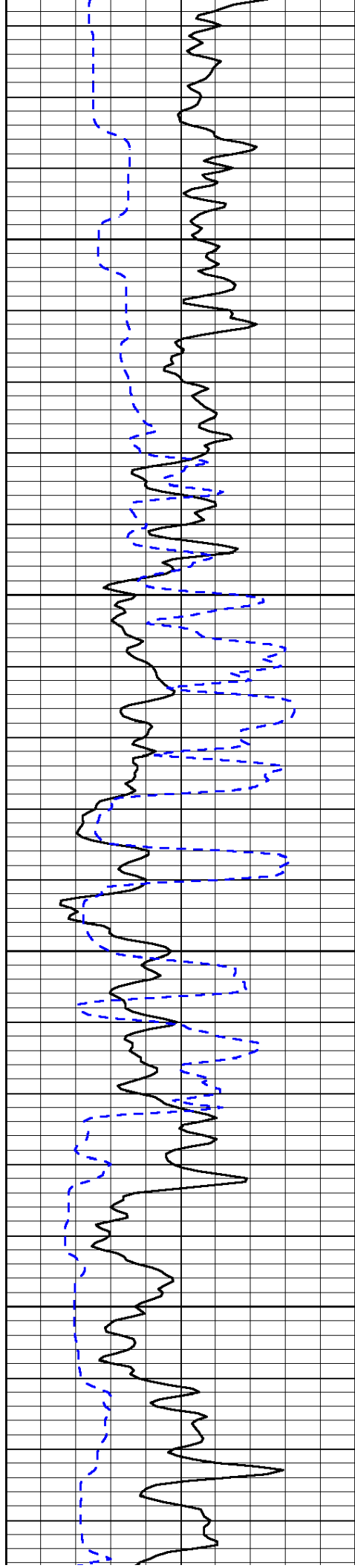


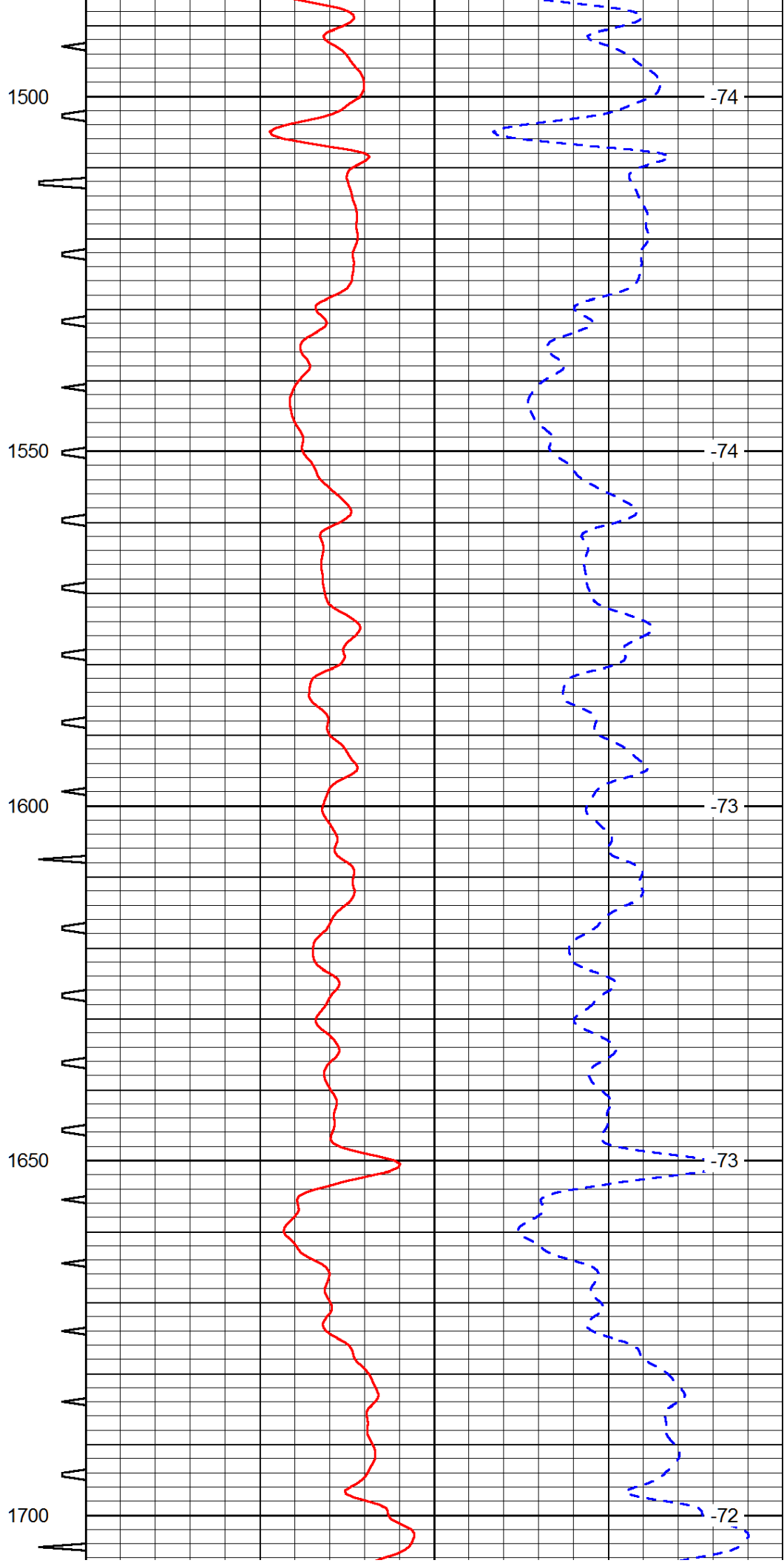
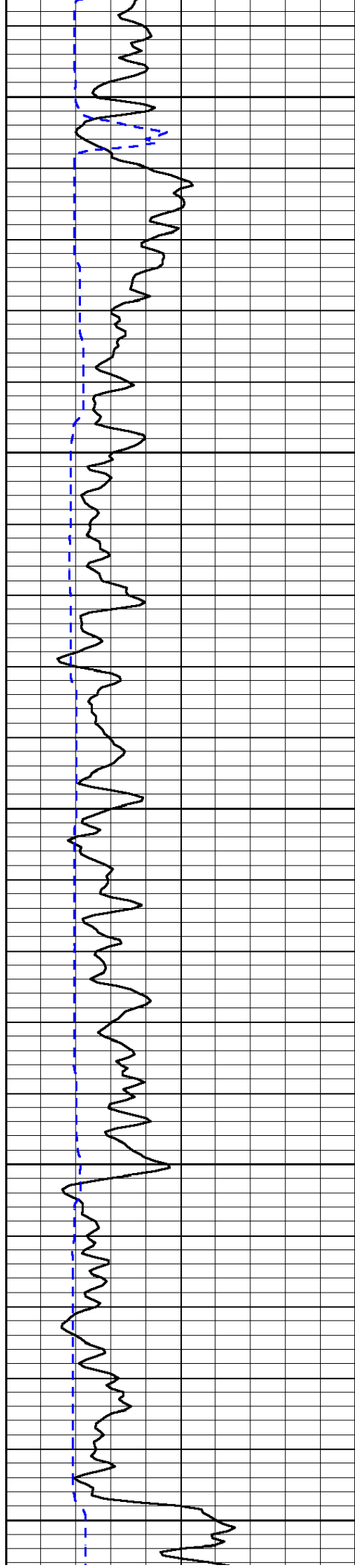


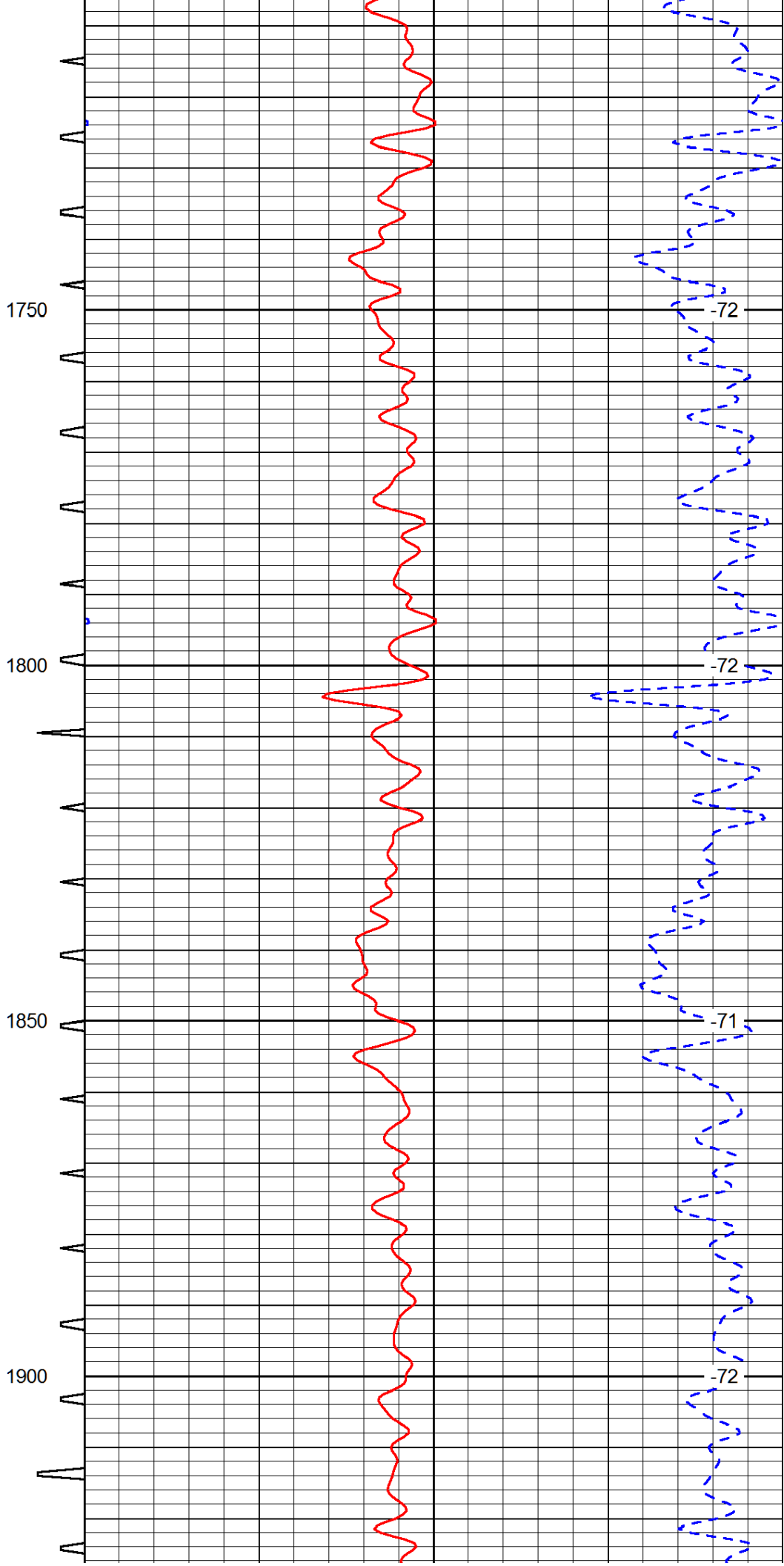
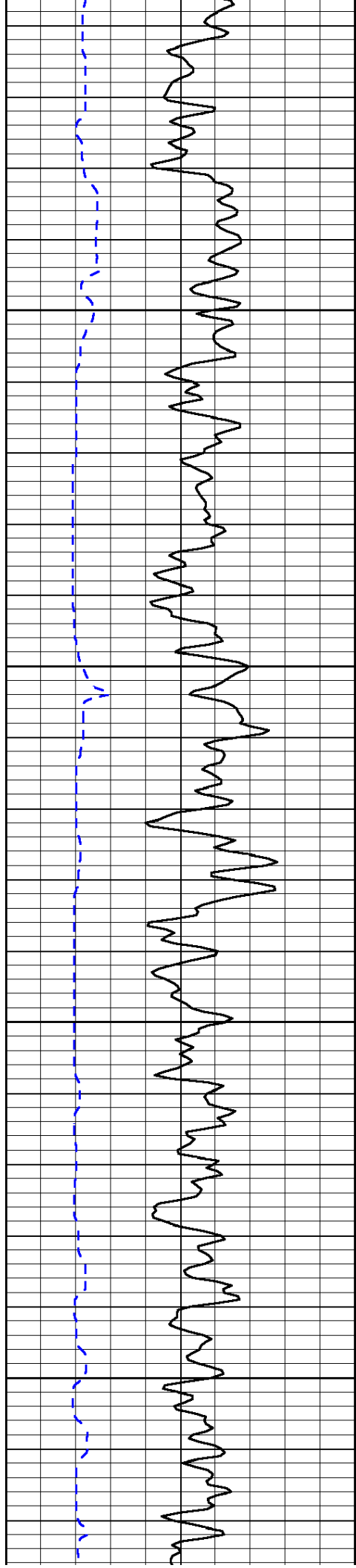


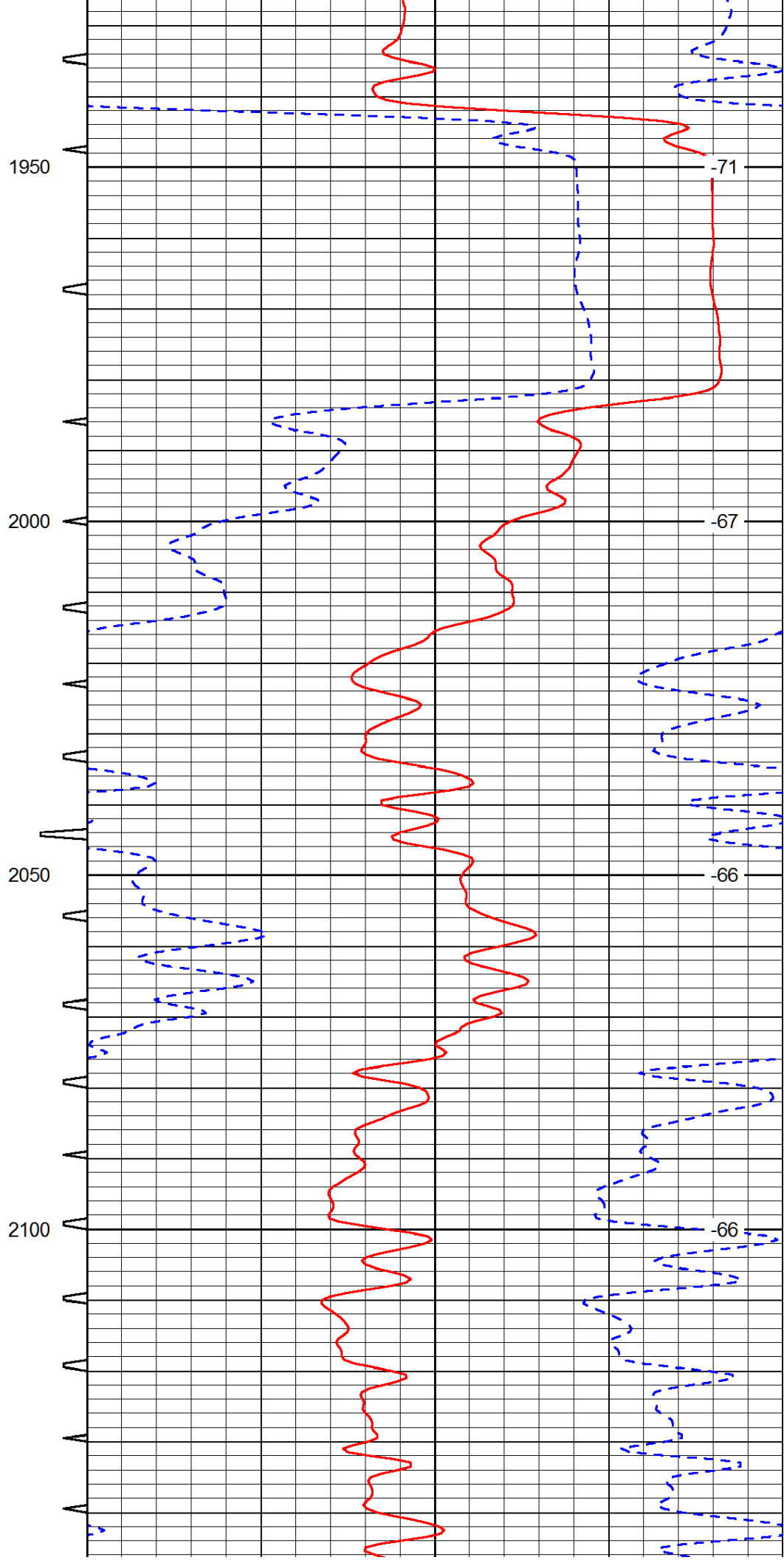
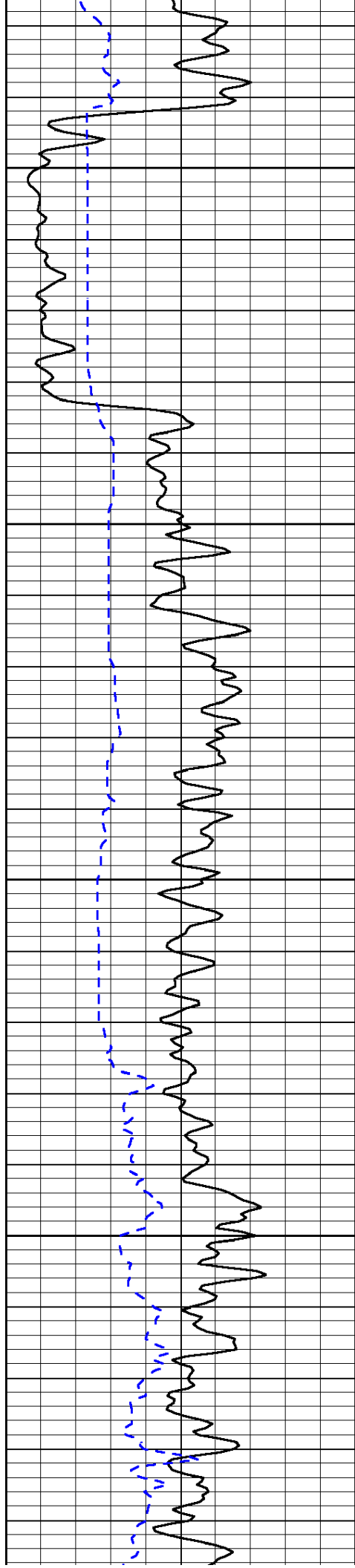


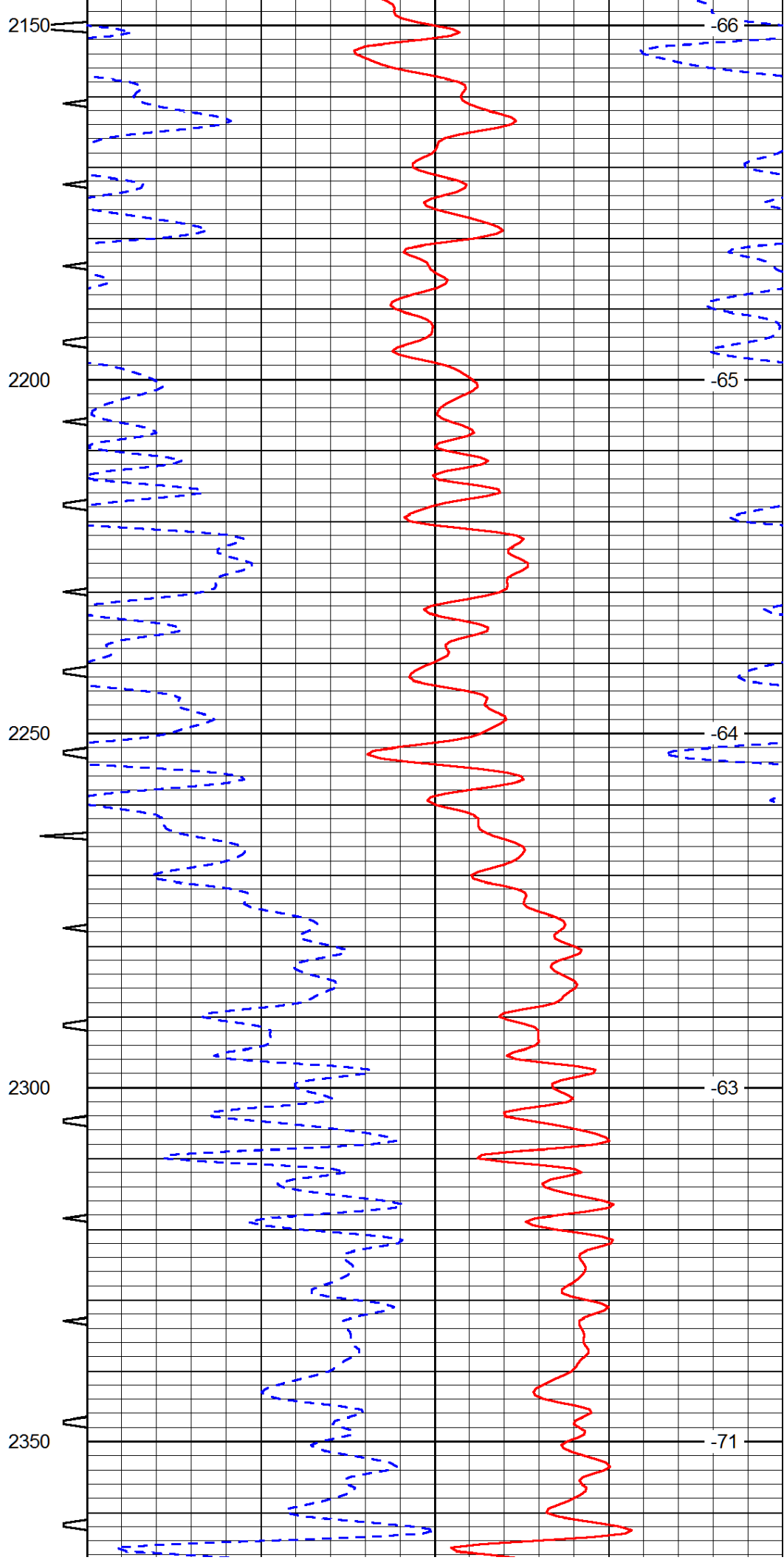
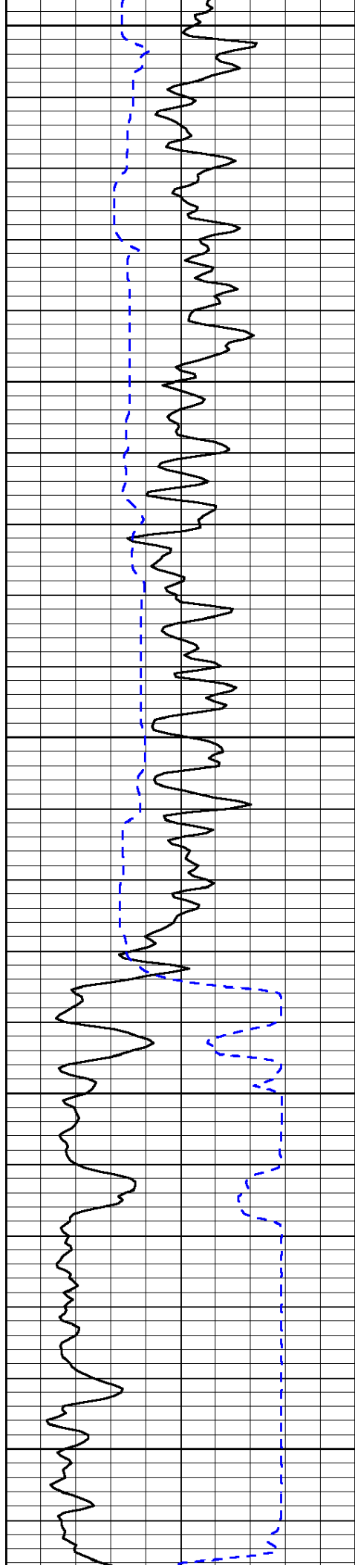


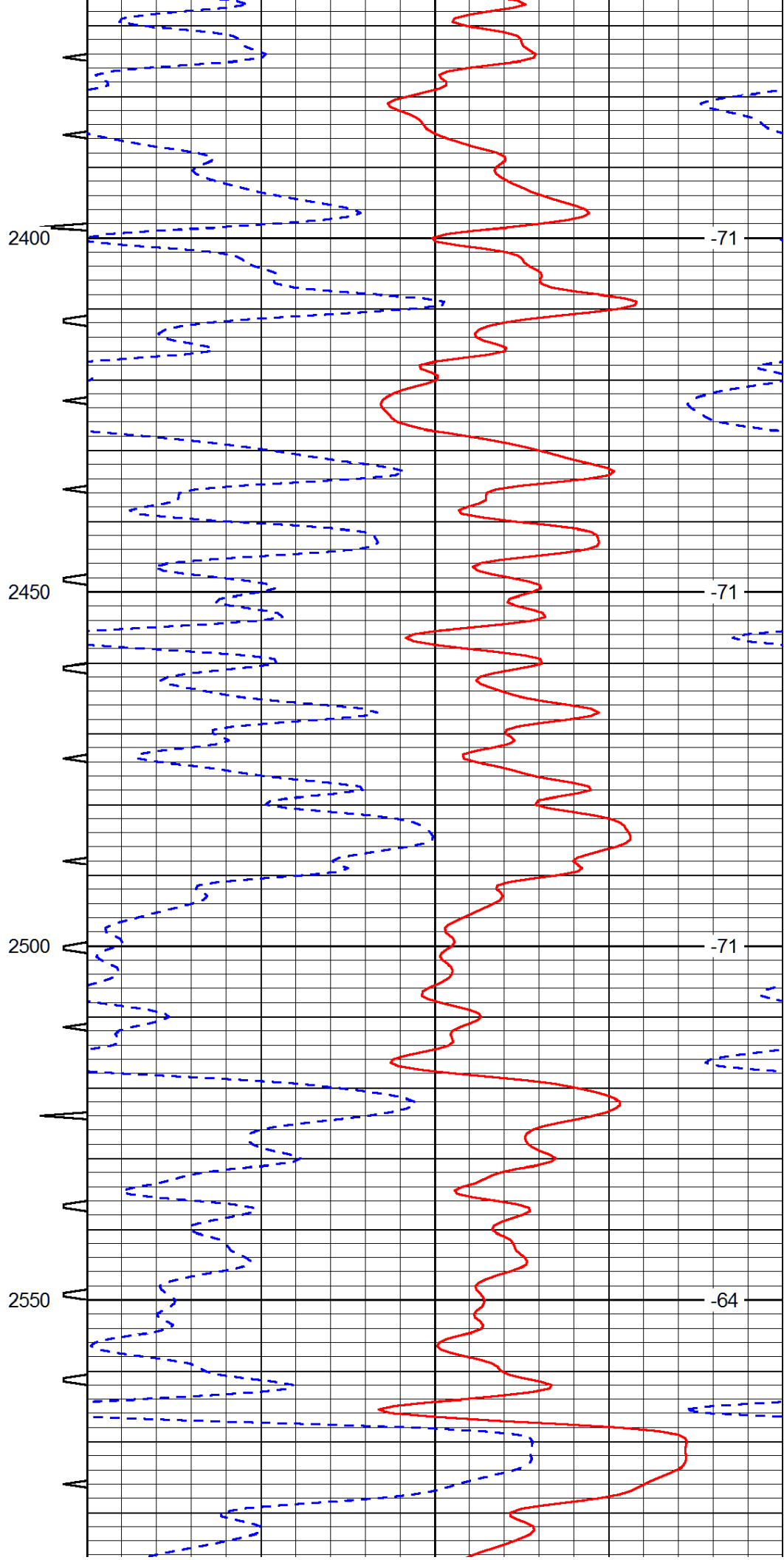
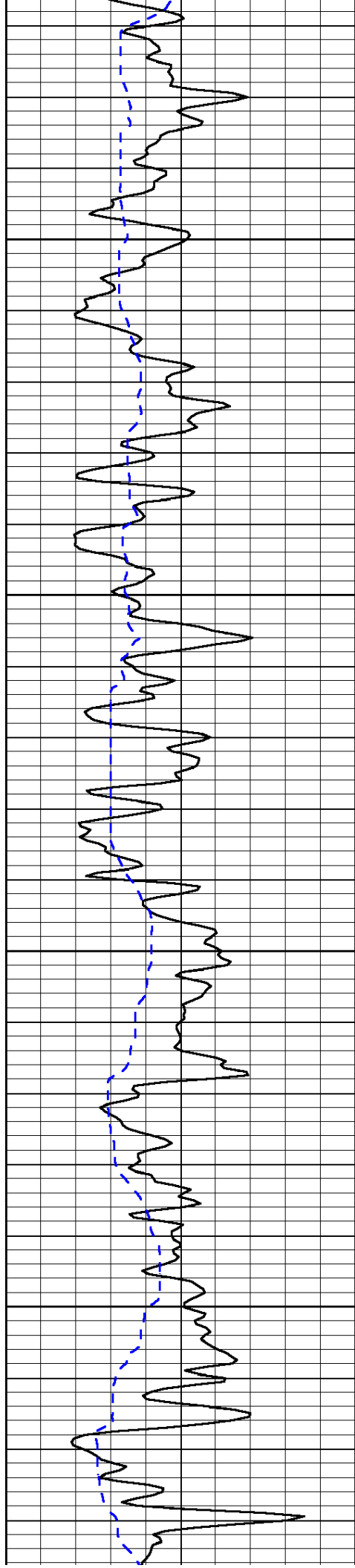


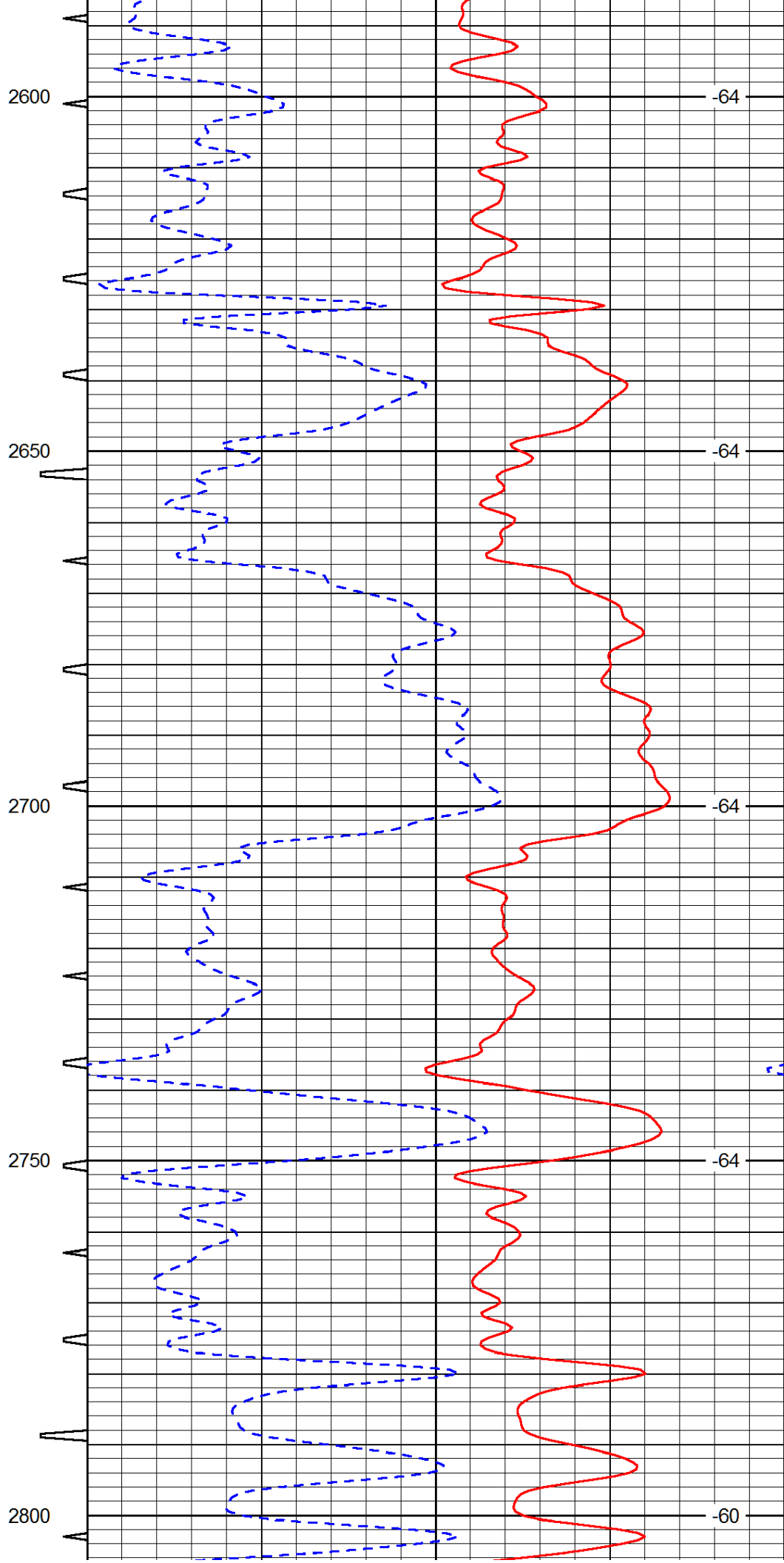
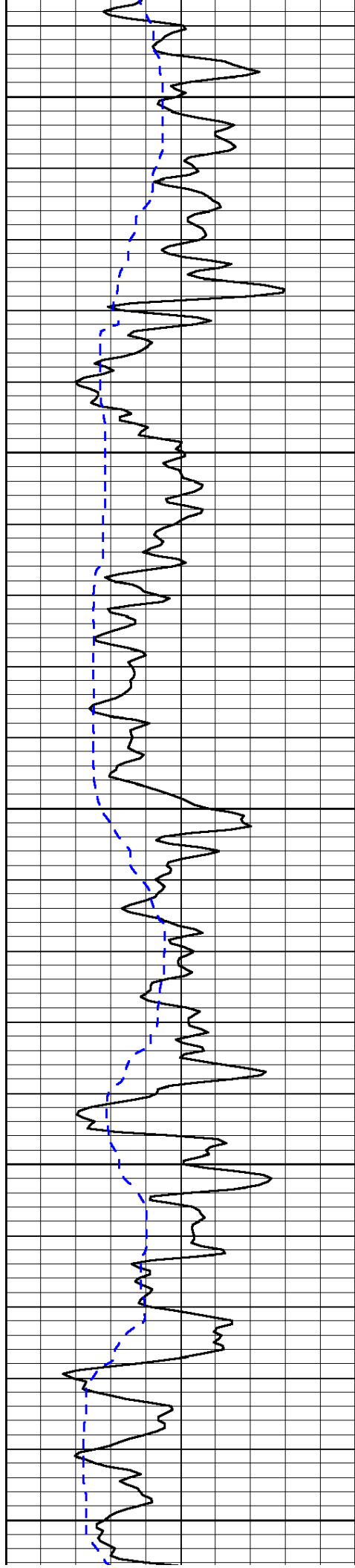


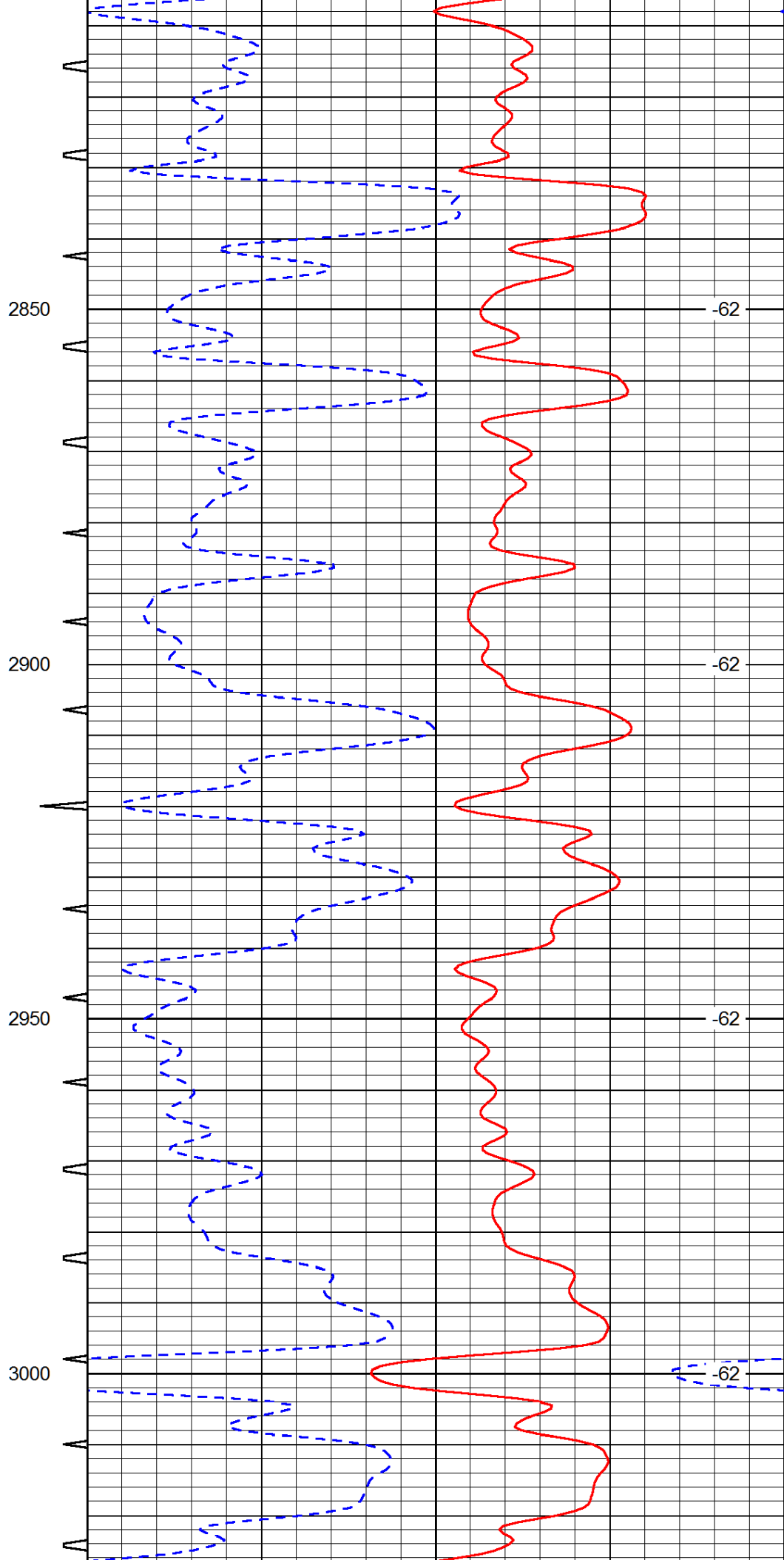
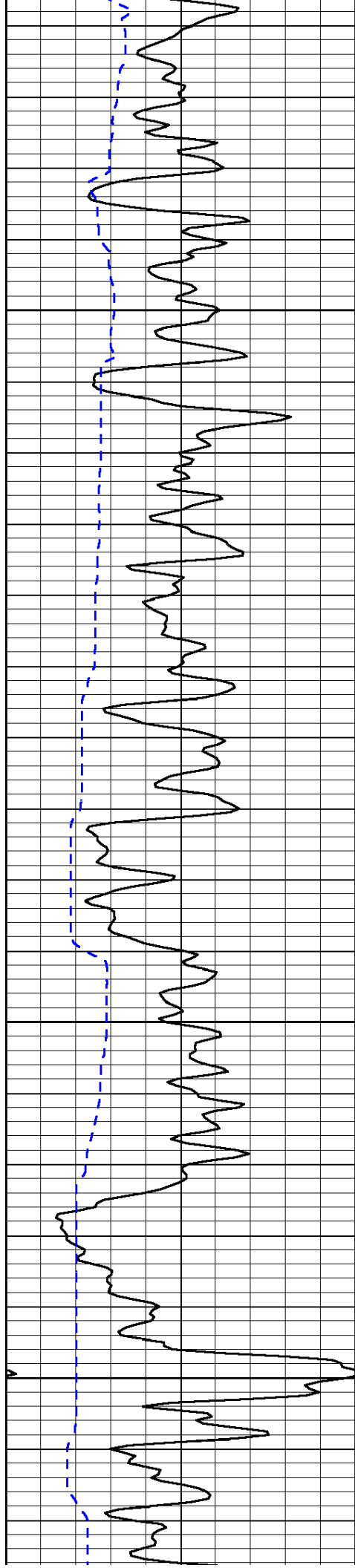


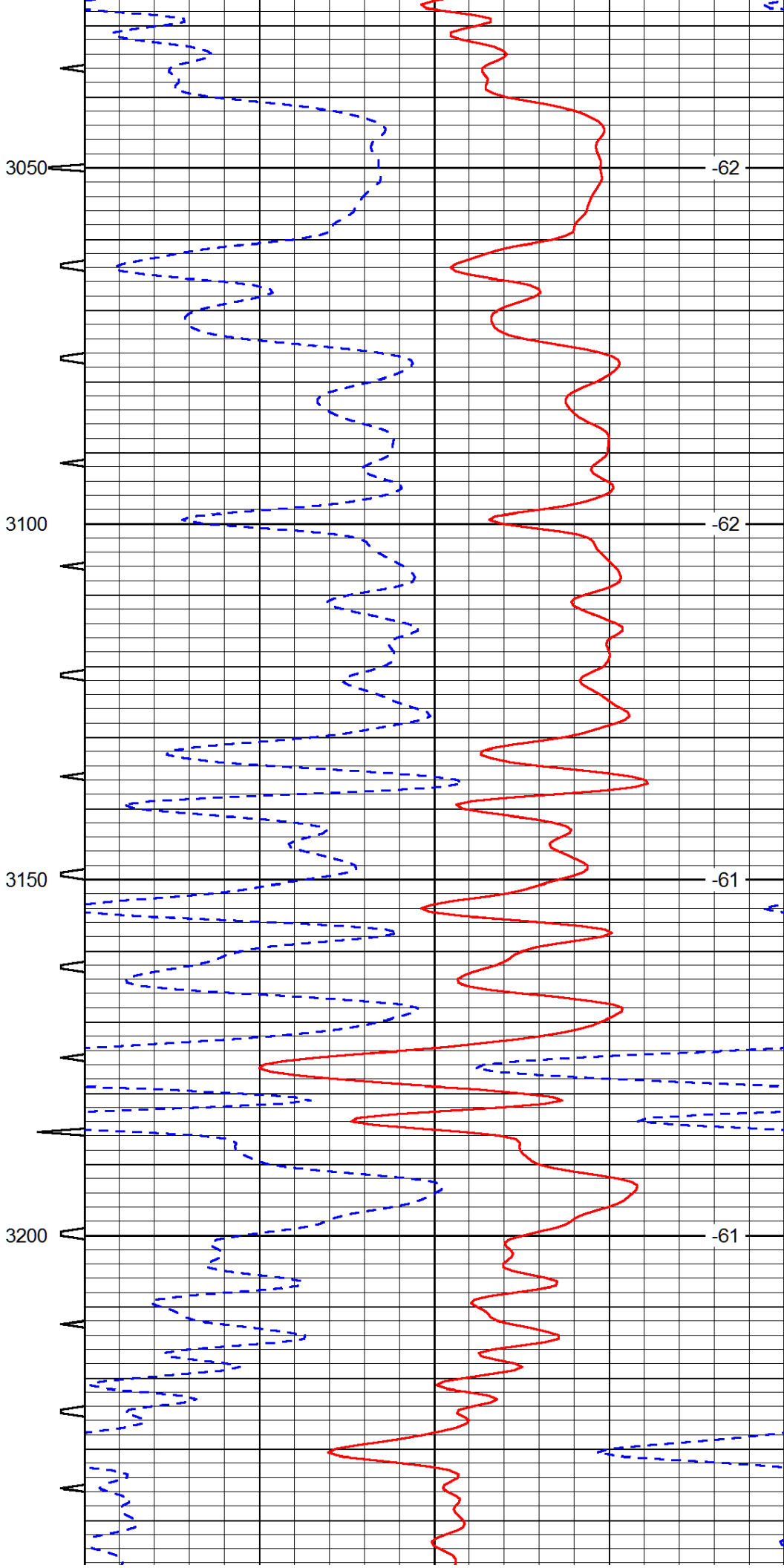
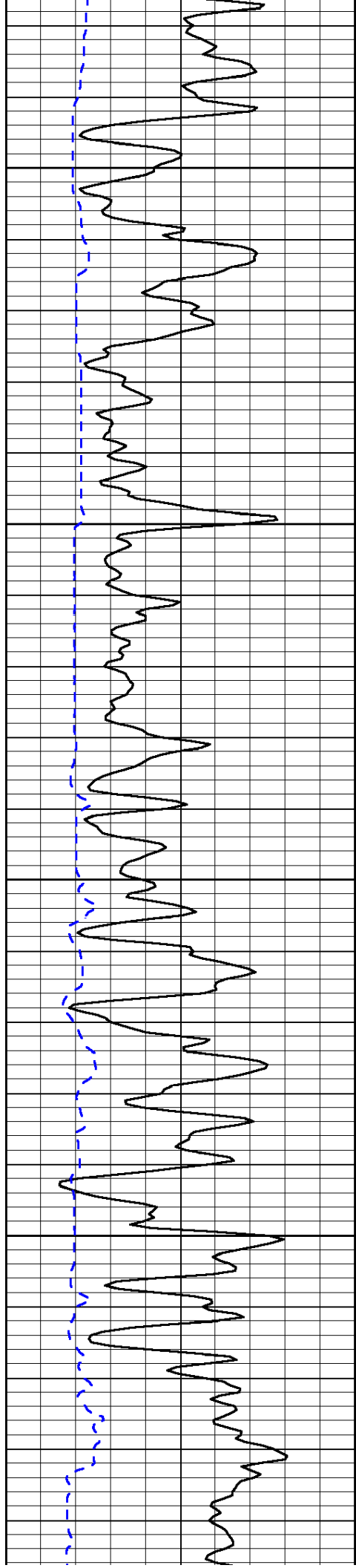


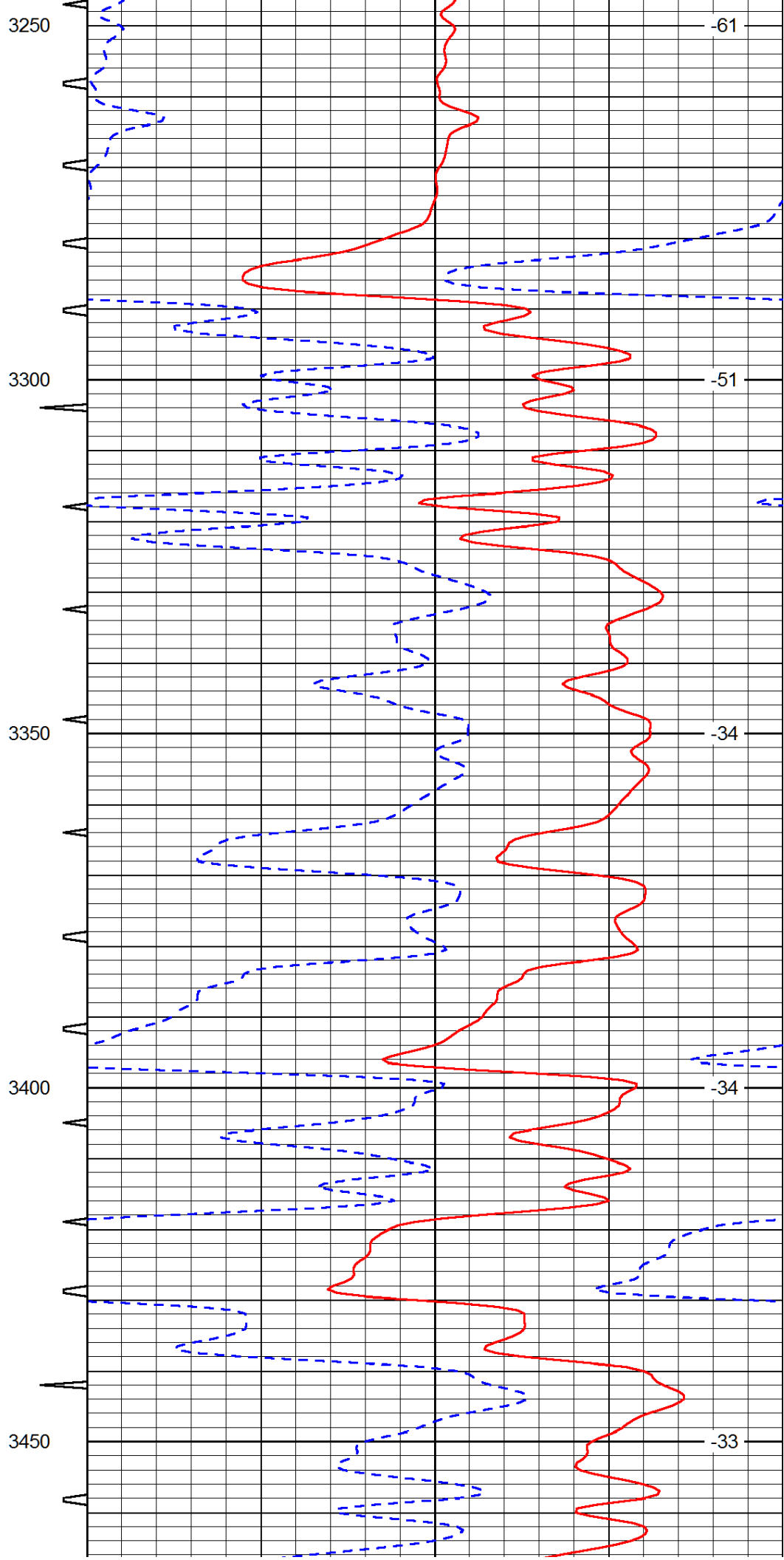
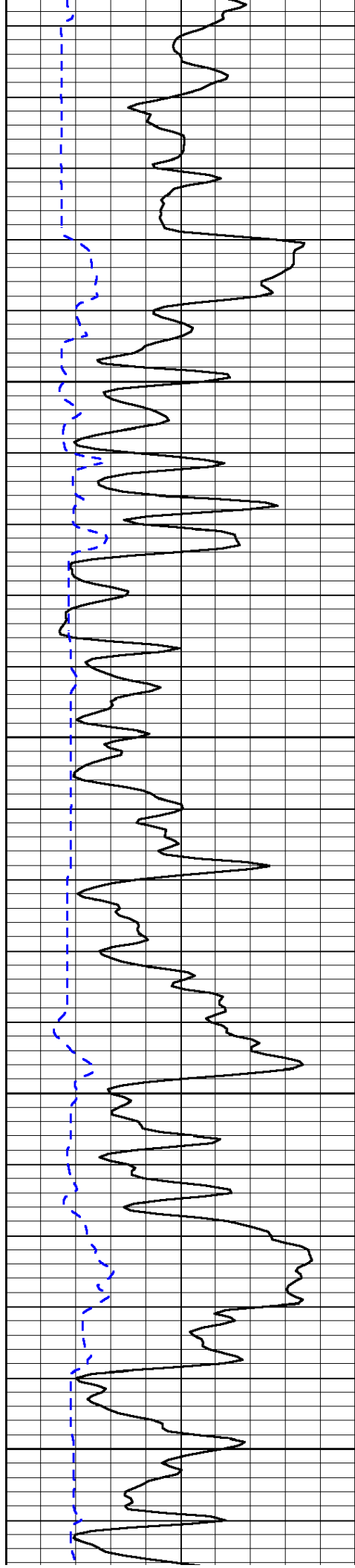


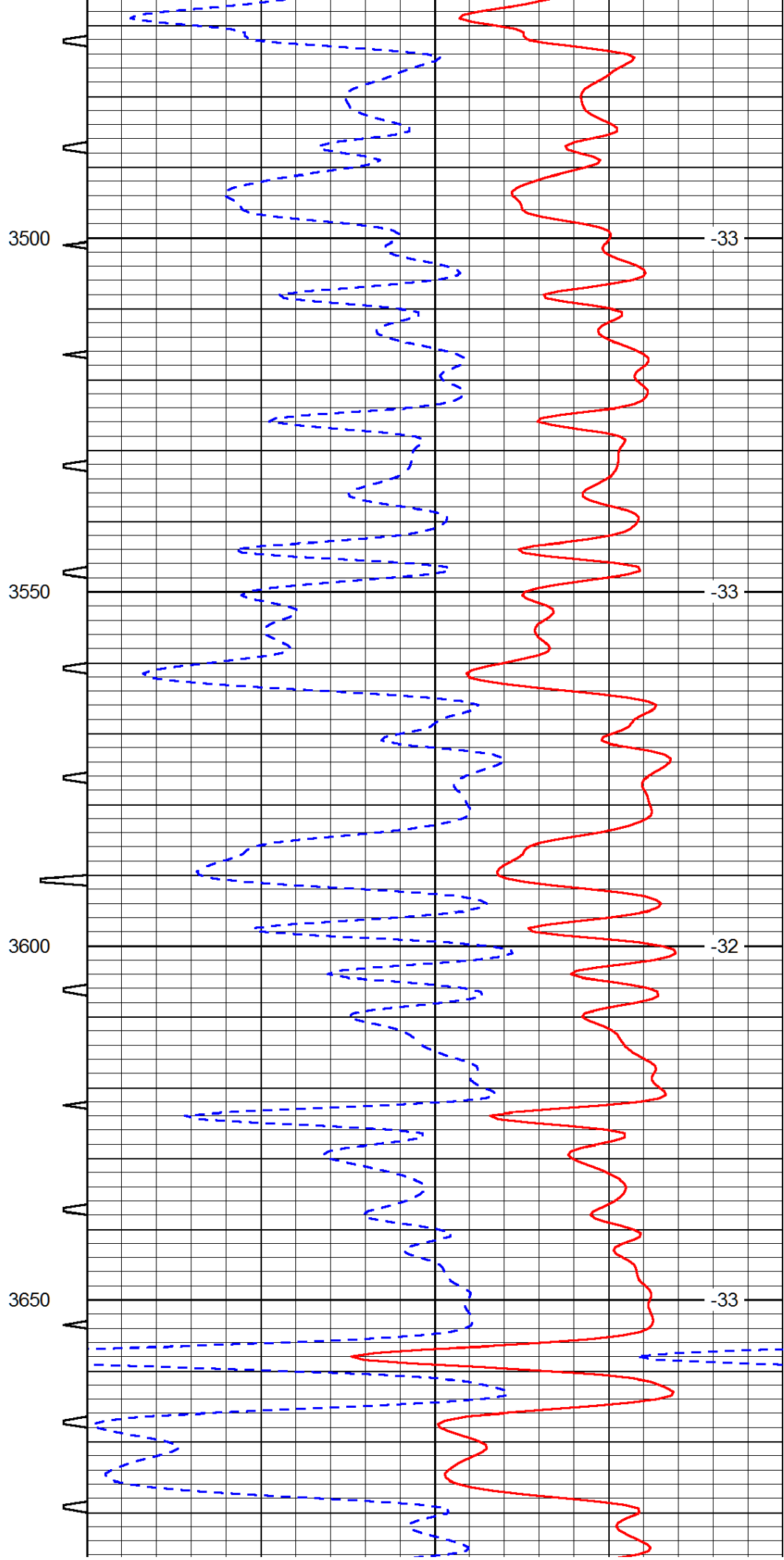
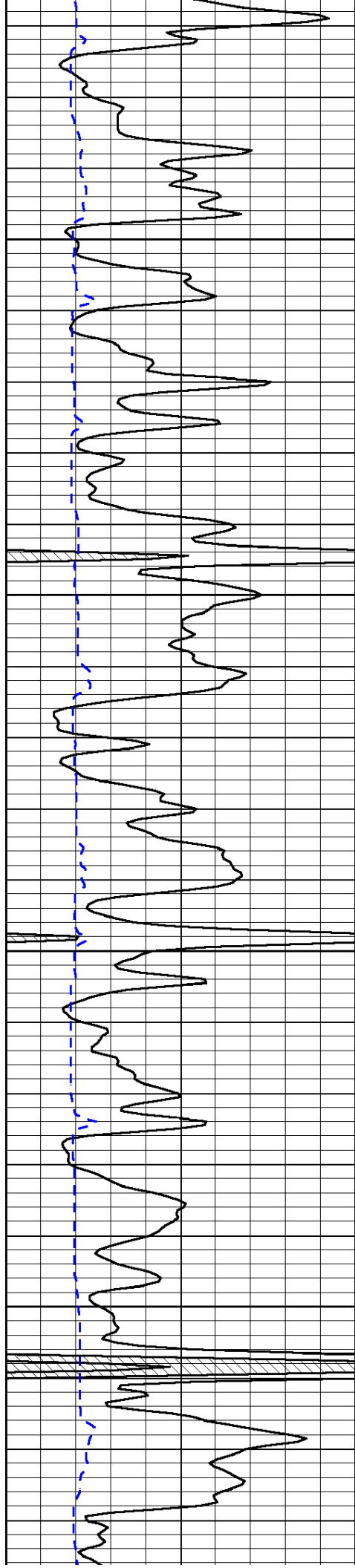


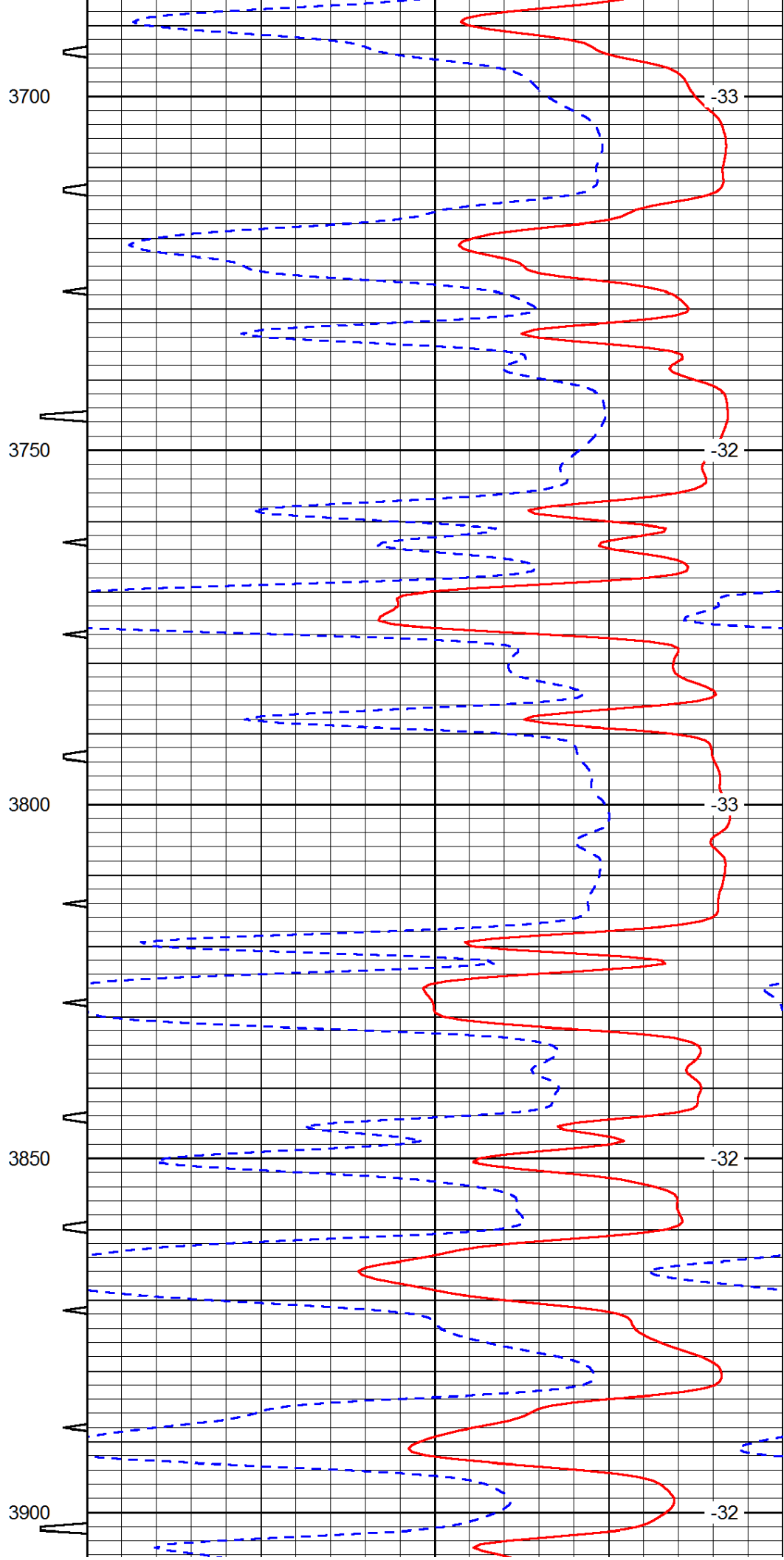
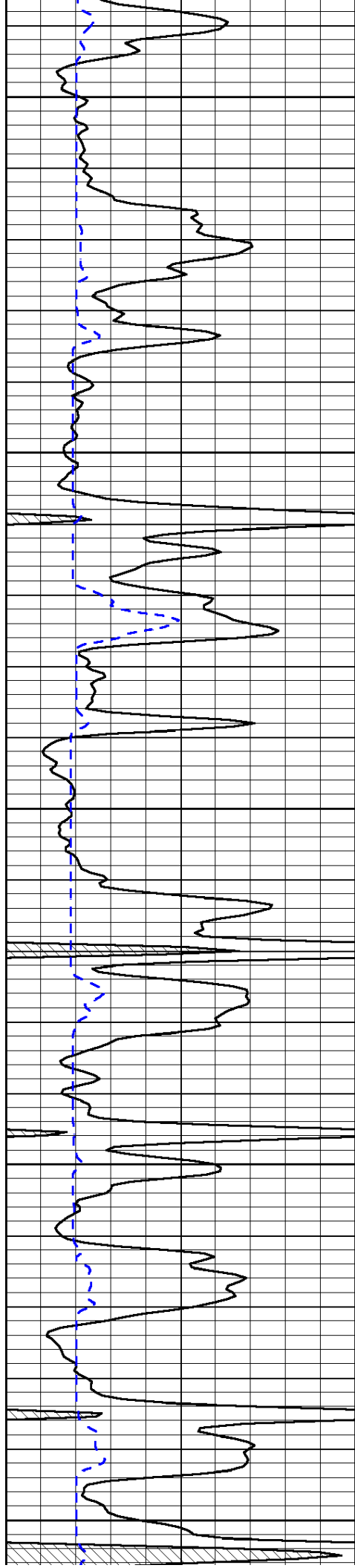


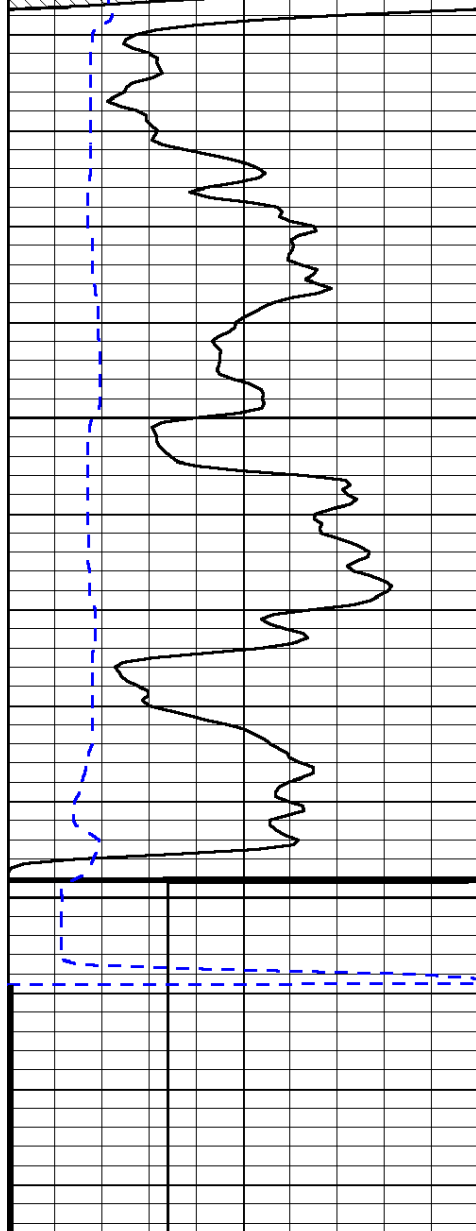




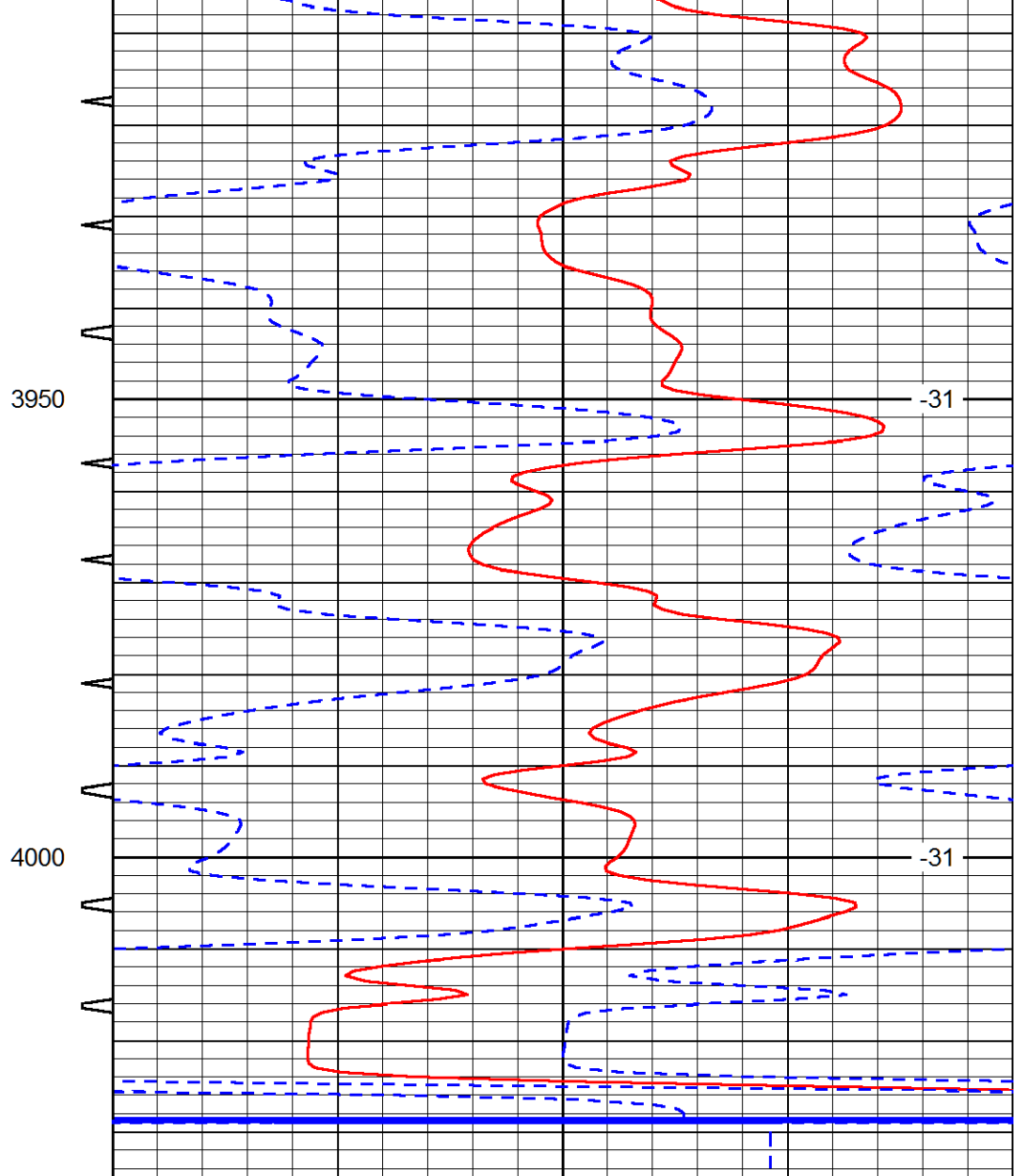








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150	Gamma Ray (GAPI)	300
6	dCAL (in)	16



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

LSPD
(ft/min)