



Pioneer Energy Services

Borehole Compensated Sonic Log

15-039-21,181-00-00

API No.

Company **Murfin Drilling Company, Inc.**

Well **Ryser #1-24**

Field

County **Decatur**

State **Kansas**

Location

760' FSL & 1010' FEL

Other Services
CNL/CDL
MEL/DIL

Sec: **24**

Twp: **5S**

Rge: **26W**

Elevation

Permanent Datum Ground Level Elevation **2457**

Log Measured From Kelly Bushing

11 Ft. Above Perm. Datum

K.B. 2468
D.F.
G.L. 2457

Date

5/29/2013

Run Number

Two

Type Log

BHC Sonic

Depth Driller

3835

Depth Logger

3834

Bottom Logged Interval

3823

Top Logged Interval

200

Type Fluid In Hole

Chemical

Salinity, PPM CL

1,000

Density

9.1

Level

Full

Max. Rec. Temp. F

114

Operating Rig Time

4 1/2 Hours

Equipment -- Location

17 Hays

Recorded By

C. Desaire

Witnessed By

Robert Hendrix

Borehole Record

Casing Record

Run No.

Bit

From

To

Size

Wgt.

From

To

1

12.25

00

217

8.625

24#

00

217

2

7.875

217

3835

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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.

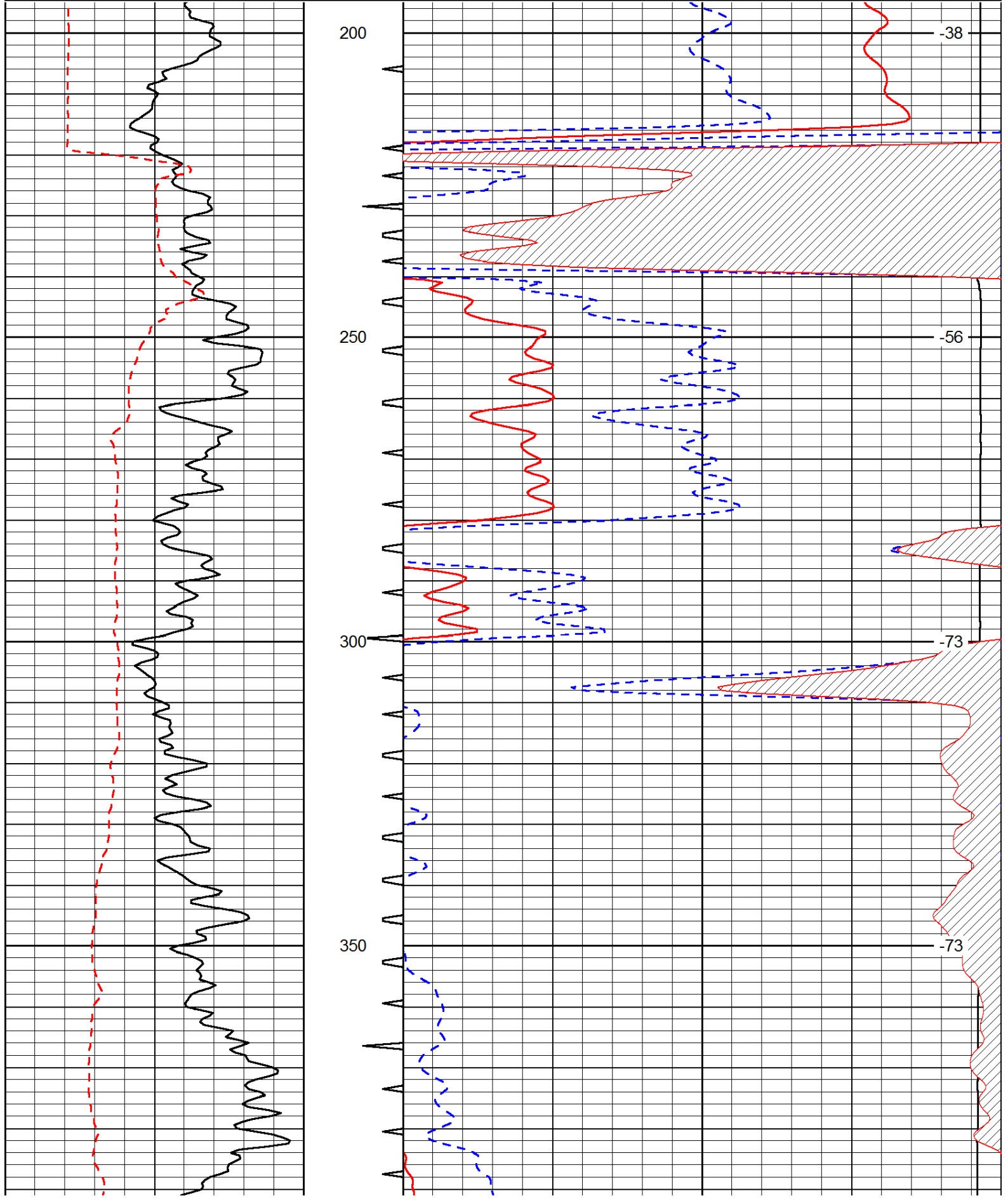
Comments

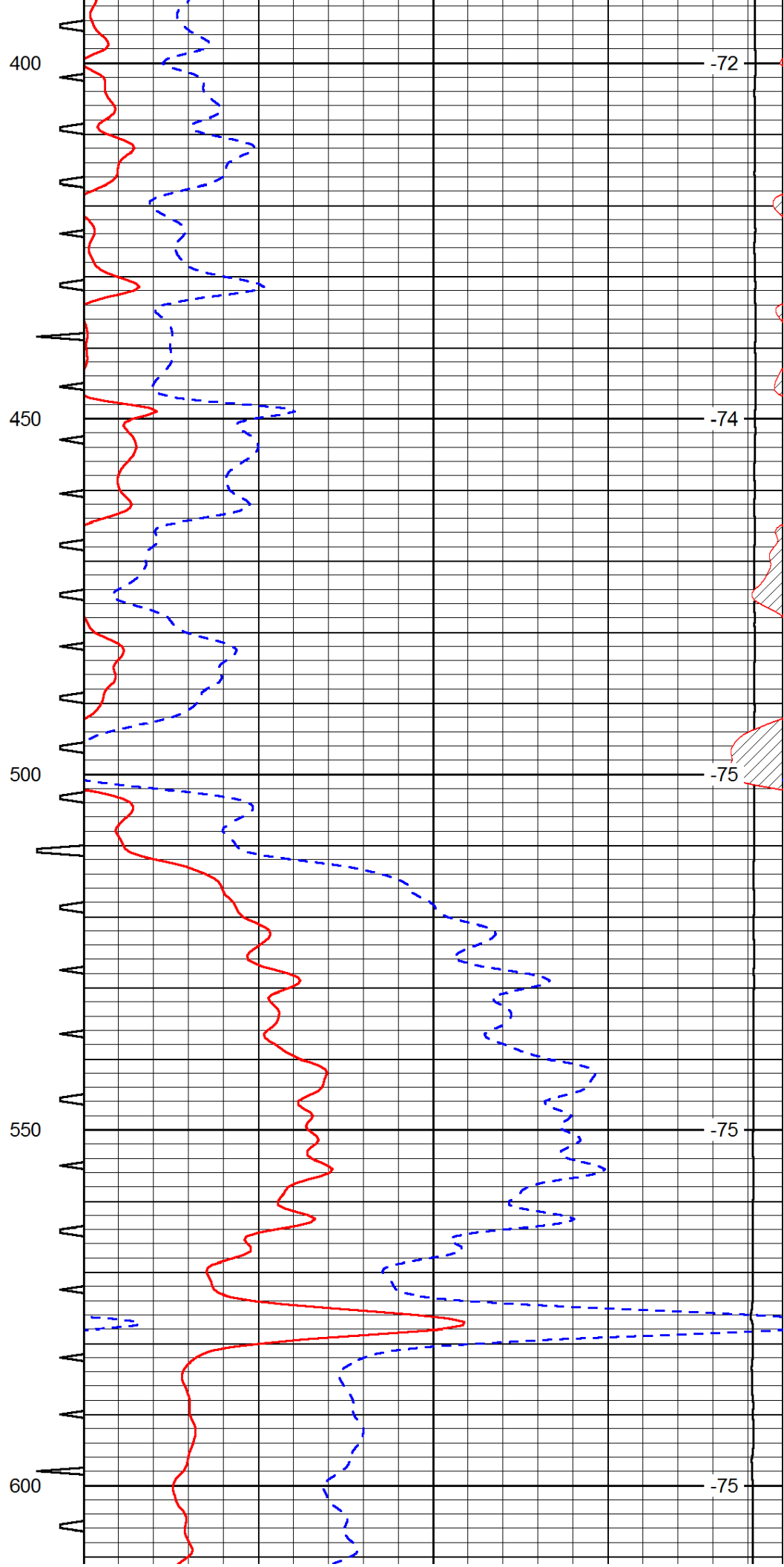
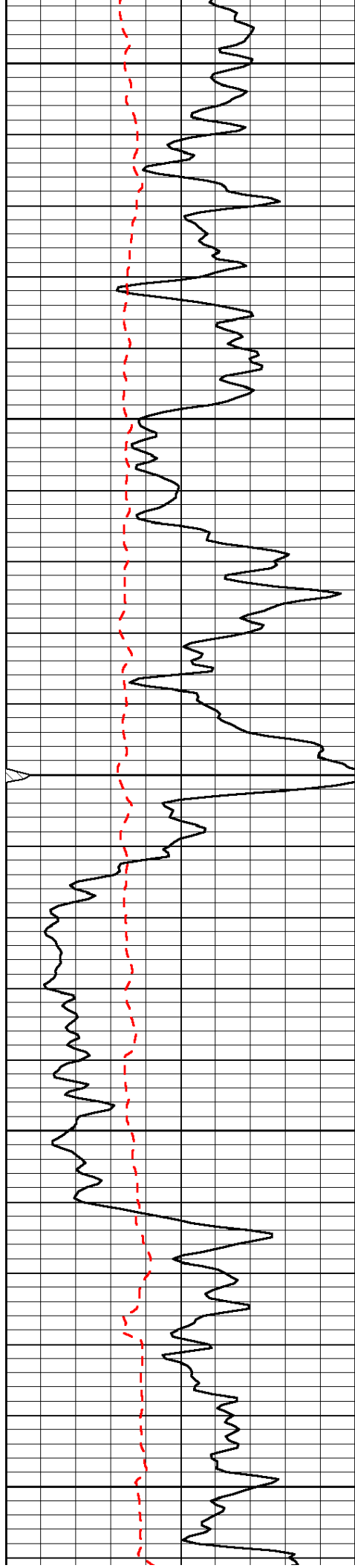
Thank you for using Pioneer Energy Services
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785 625 3858

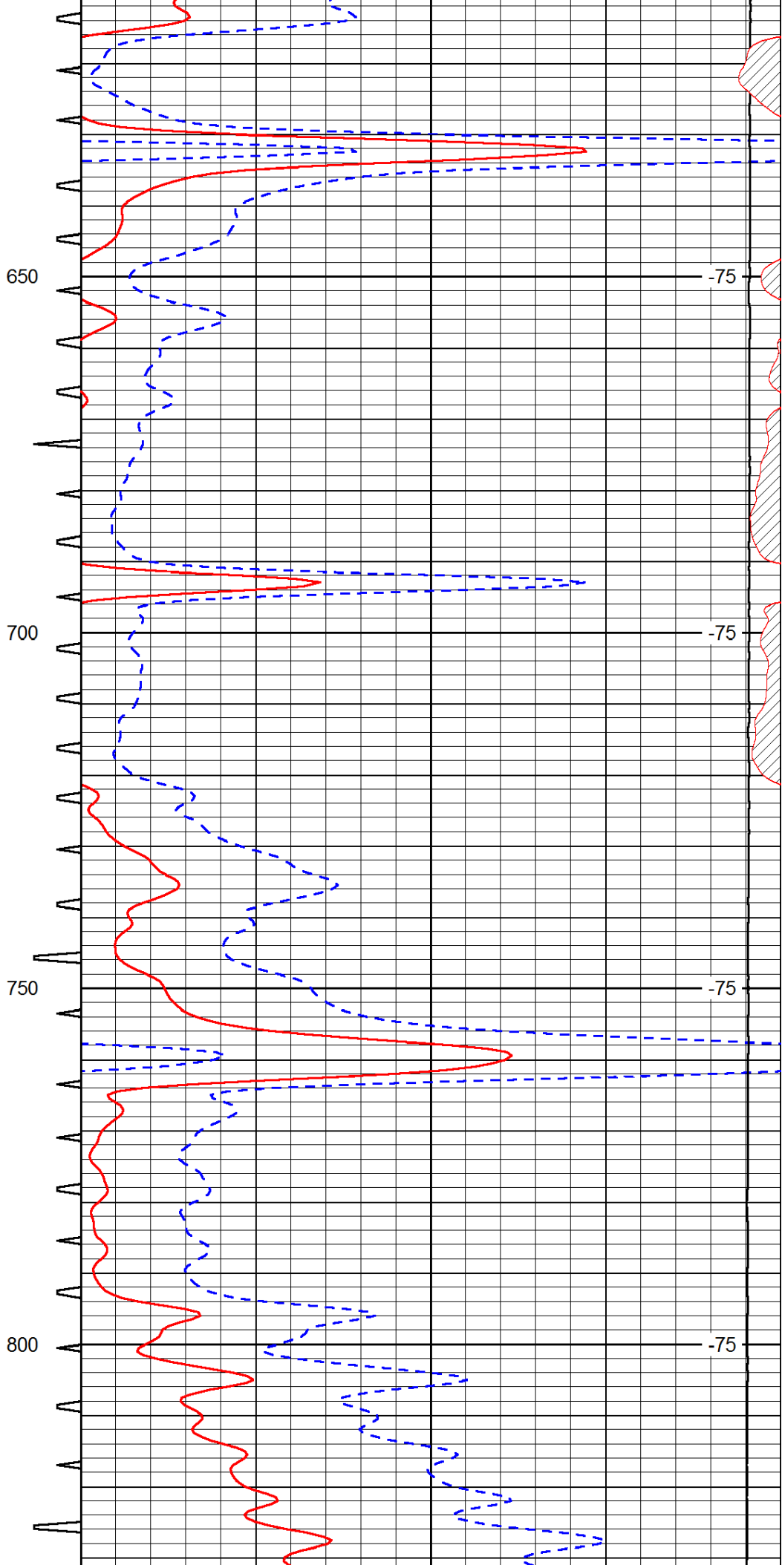
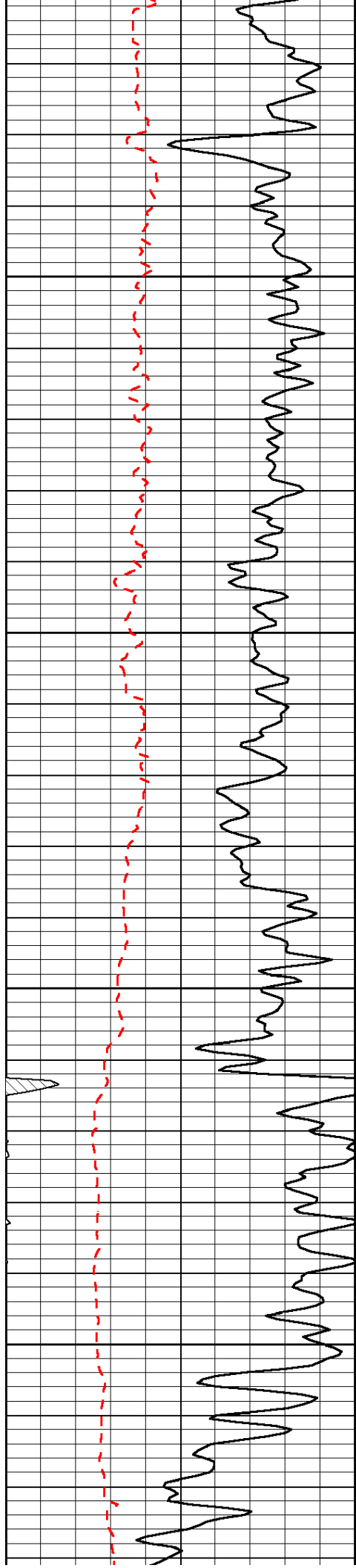
Lenora KS, W on Hwy 9 to W15Ln Rd,
N, W Into

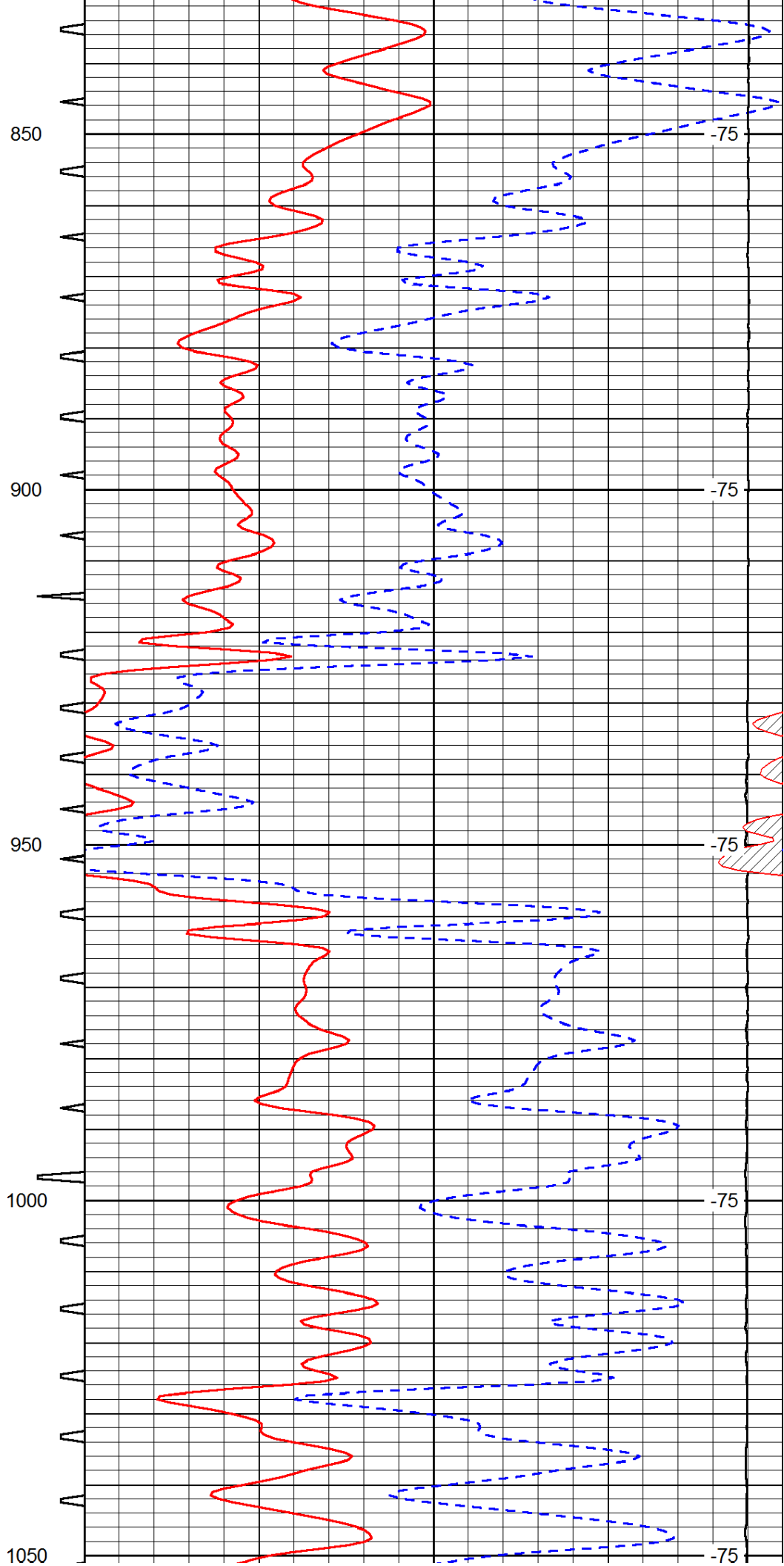
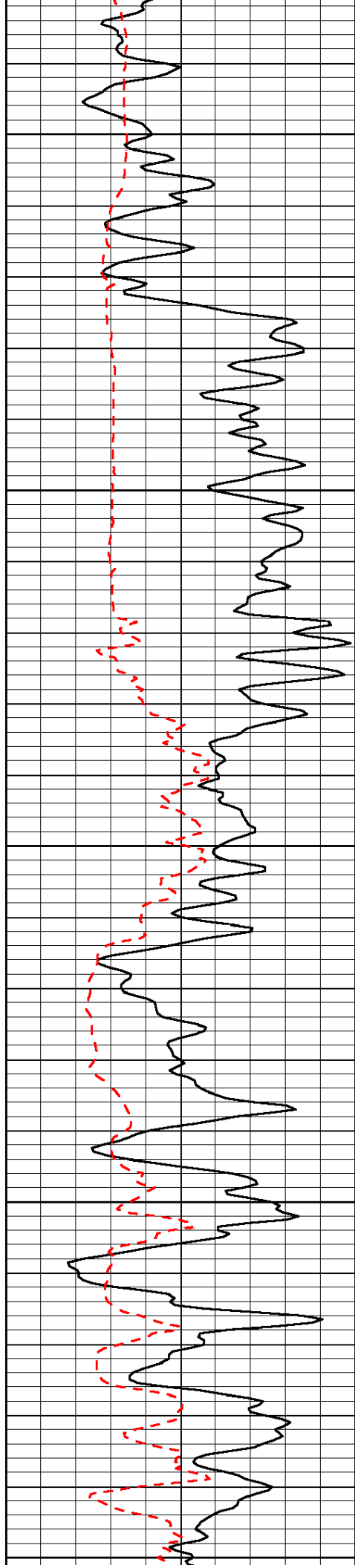
Database File: c:\warrior\data\murfin_ryser #1-24\murfhd.db
Dataset Pathname: dil\murfstk
Presentation Format: sonic
Dataset Creation: Wed May 29 09:06:36 2013
Charted by: Depth in Feet scaled 1:240

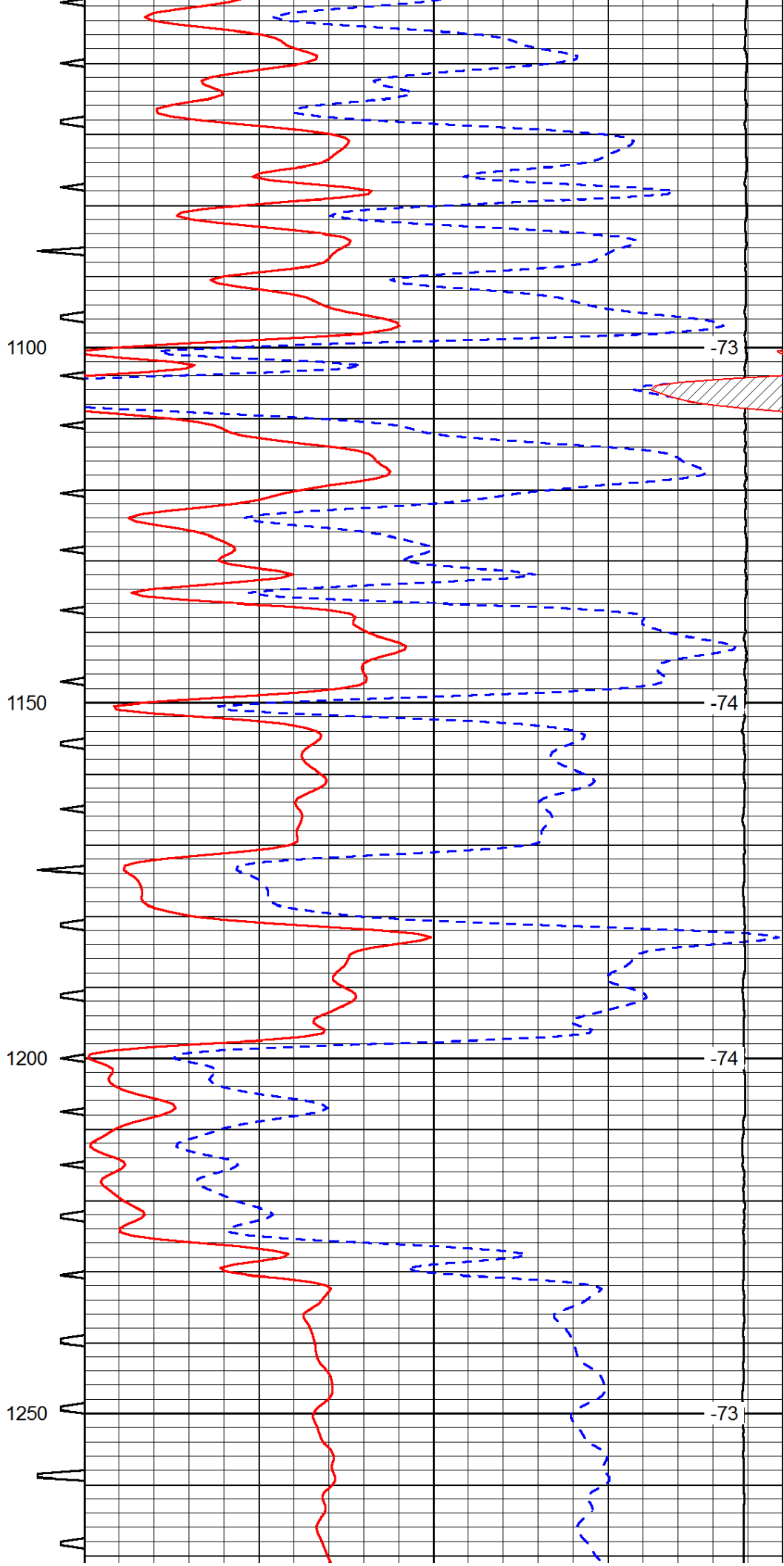
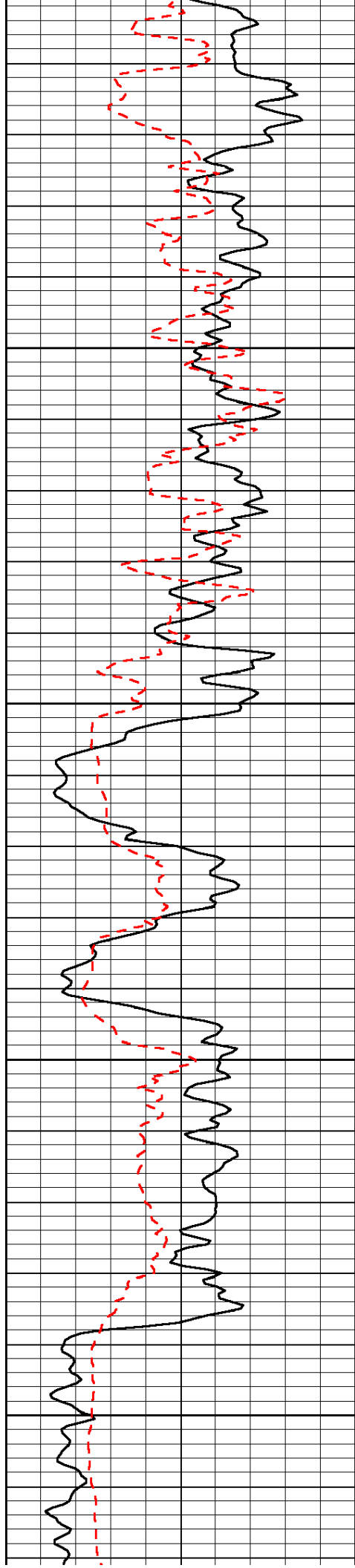
Charted by:			Depth in Feet scaled 1:2.15			
0	Gamma Ray	150	Sonic Int	140	Delta Time (usec/ft)	40
150	Gamma Ray	300		30	SPOR	-10
6	Caliper (GAPI)	16		15000	LTEN (lb)	0
					LSPD	

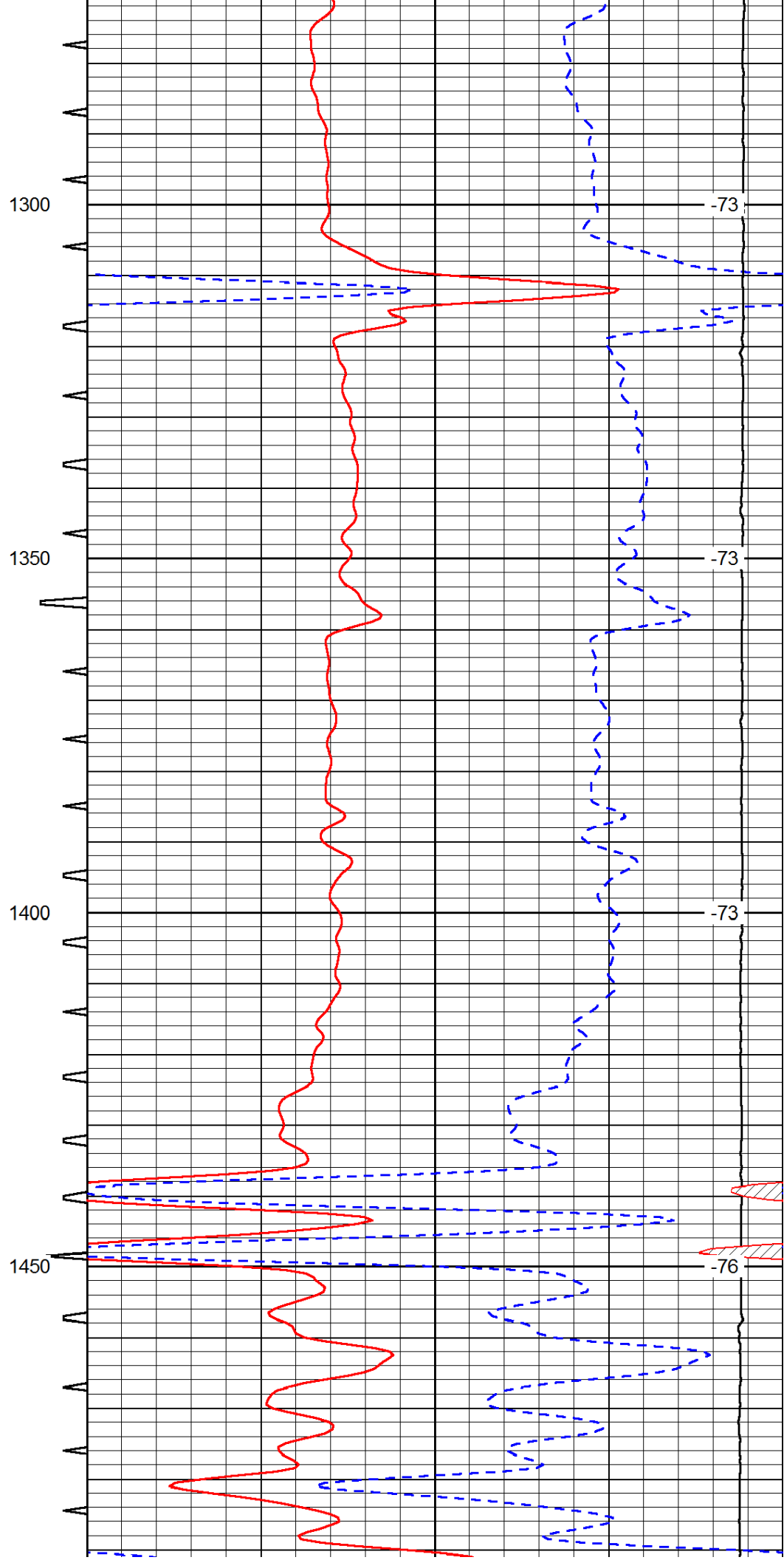
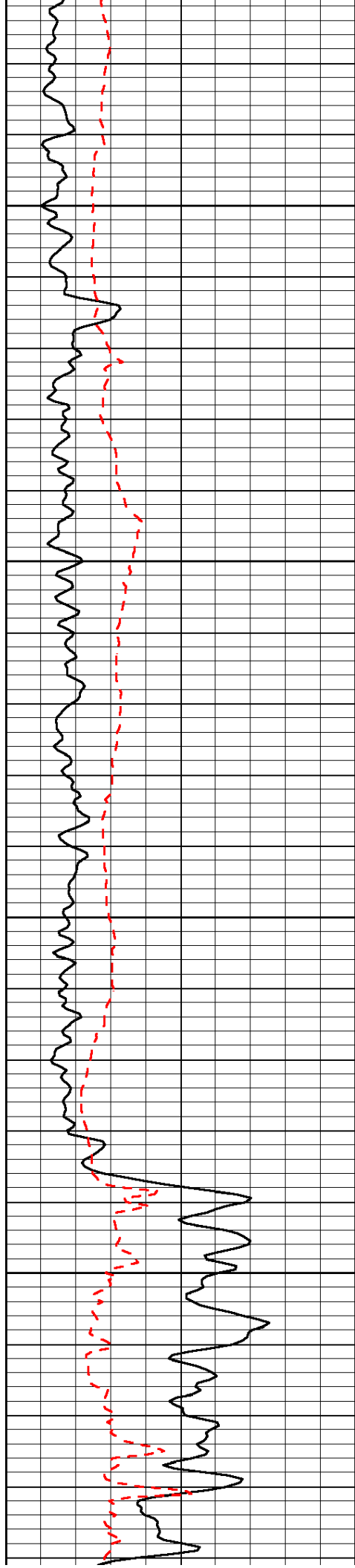


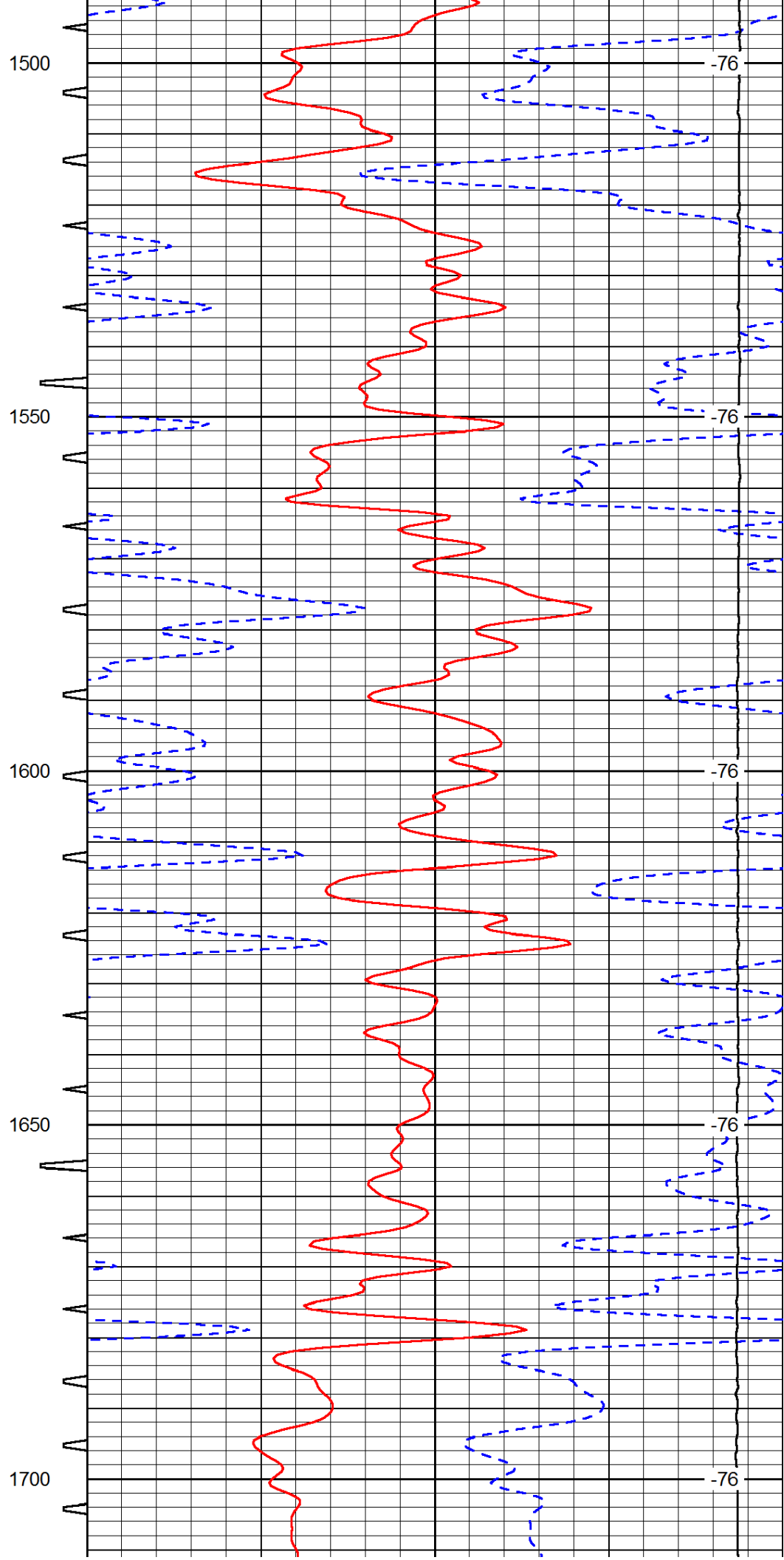
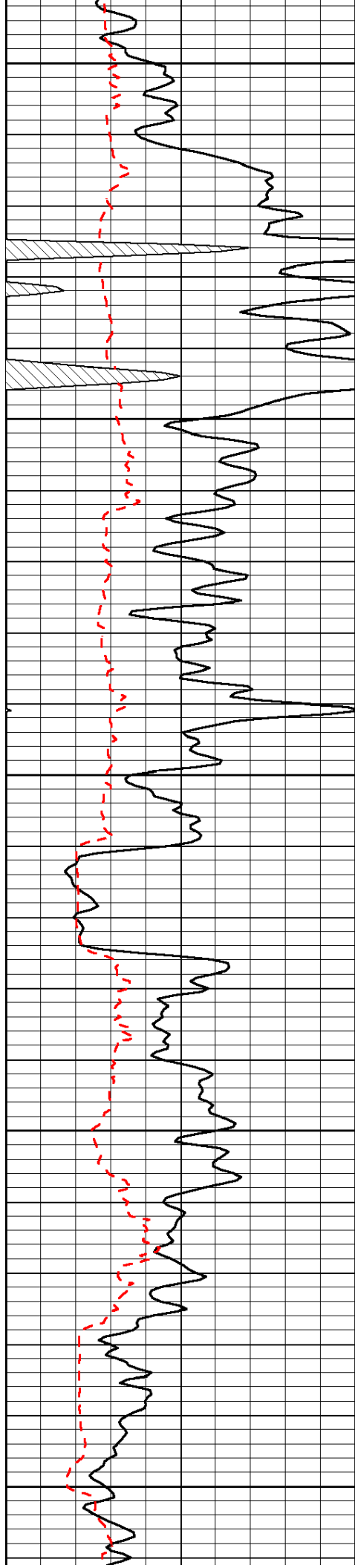


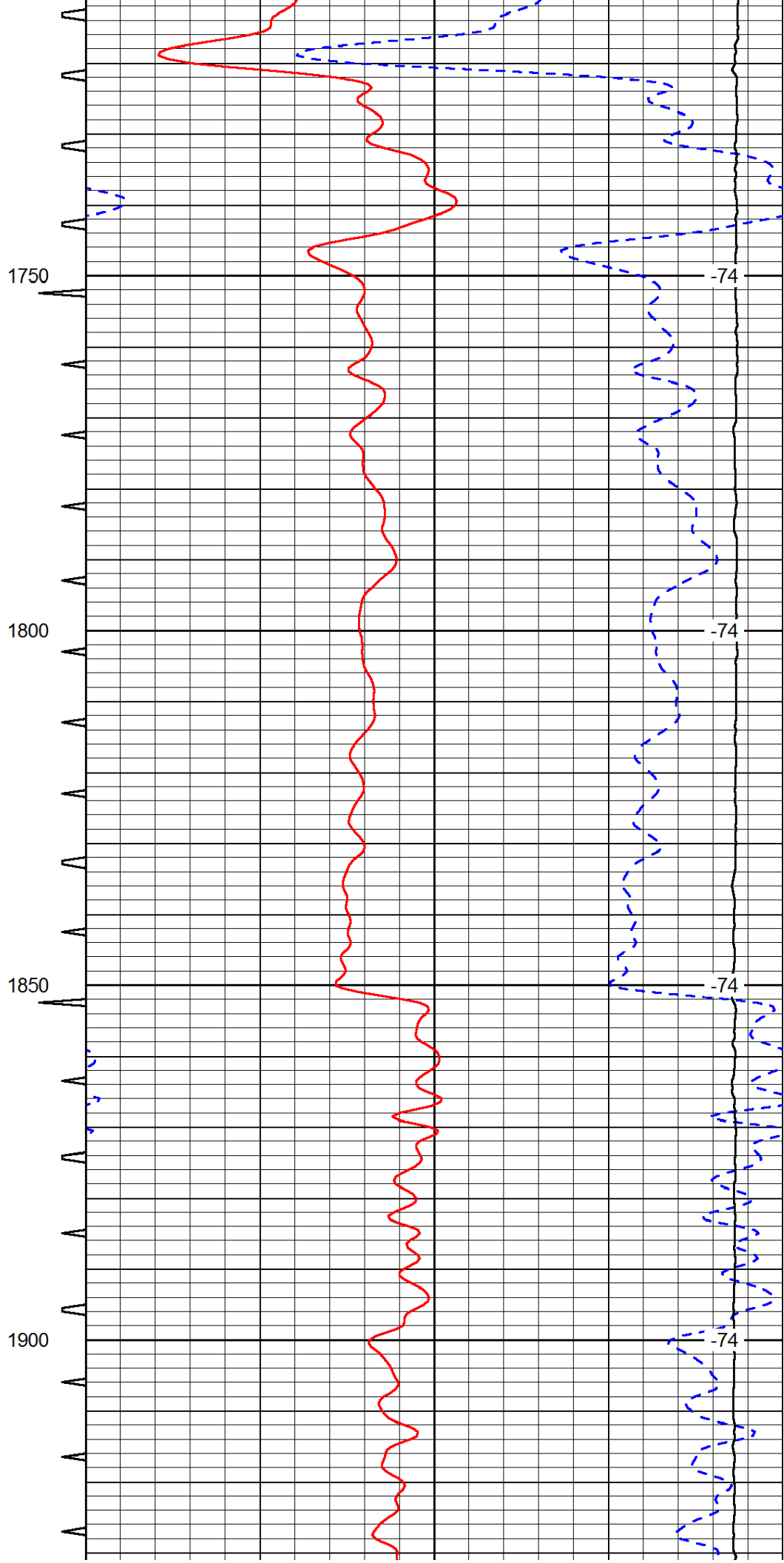
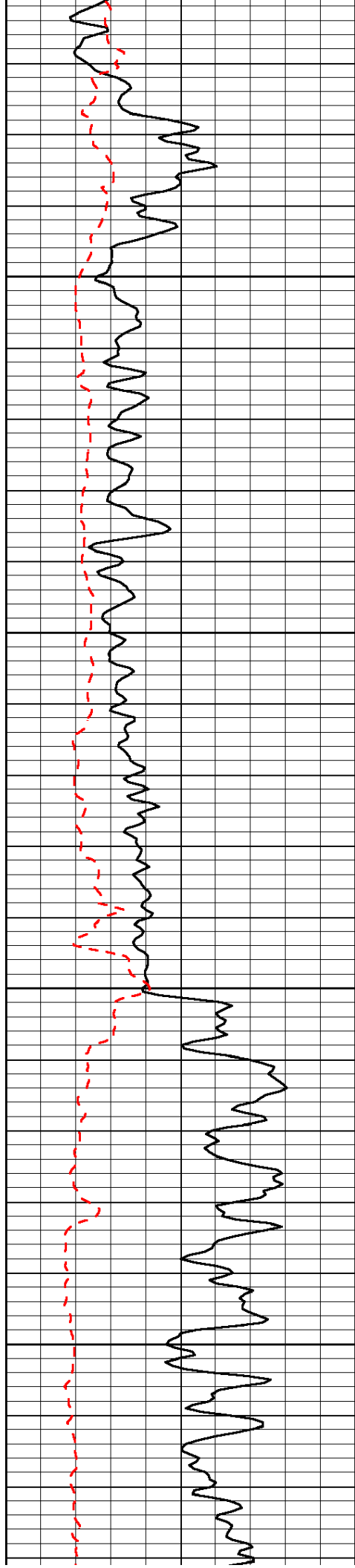


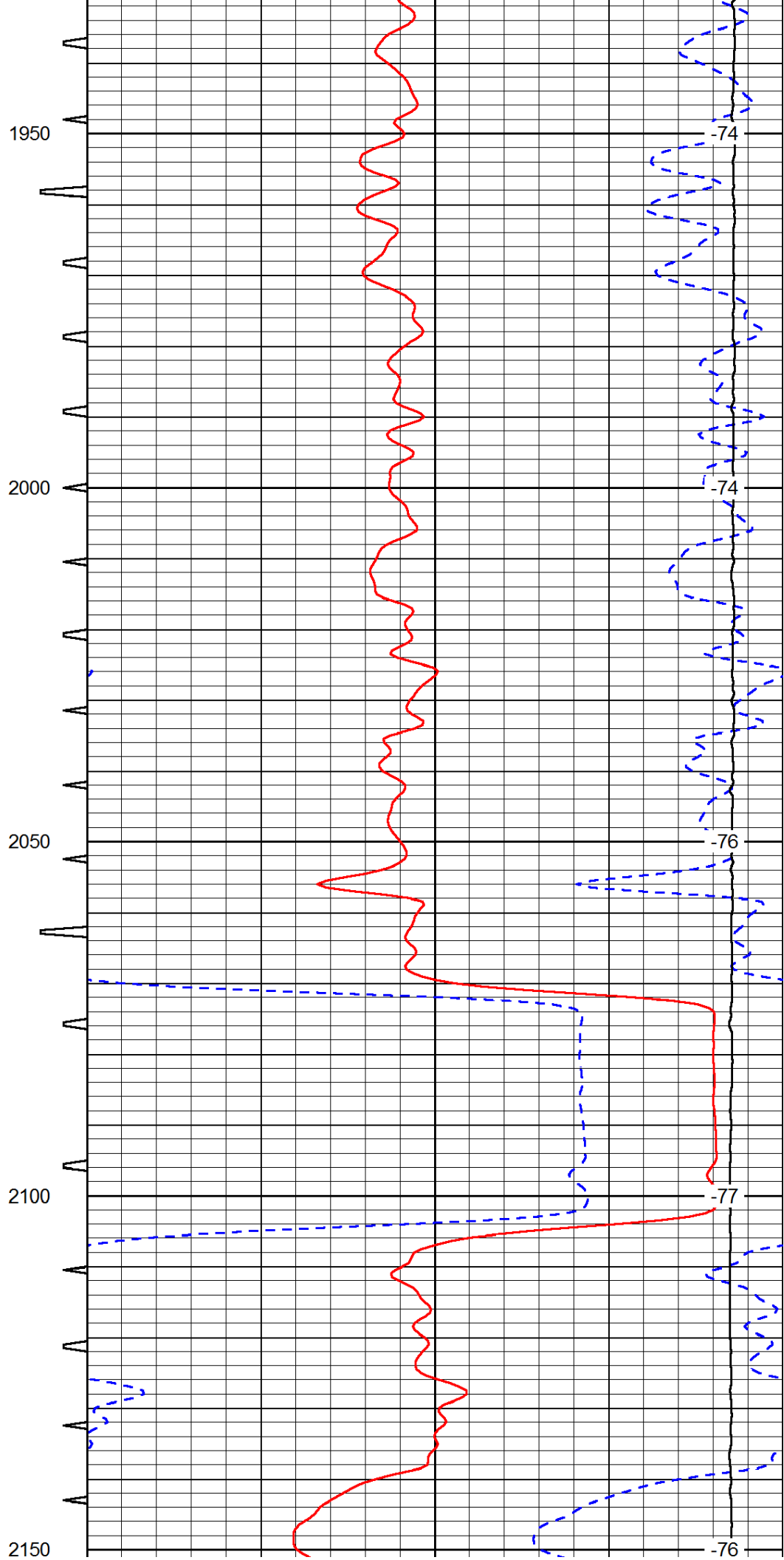
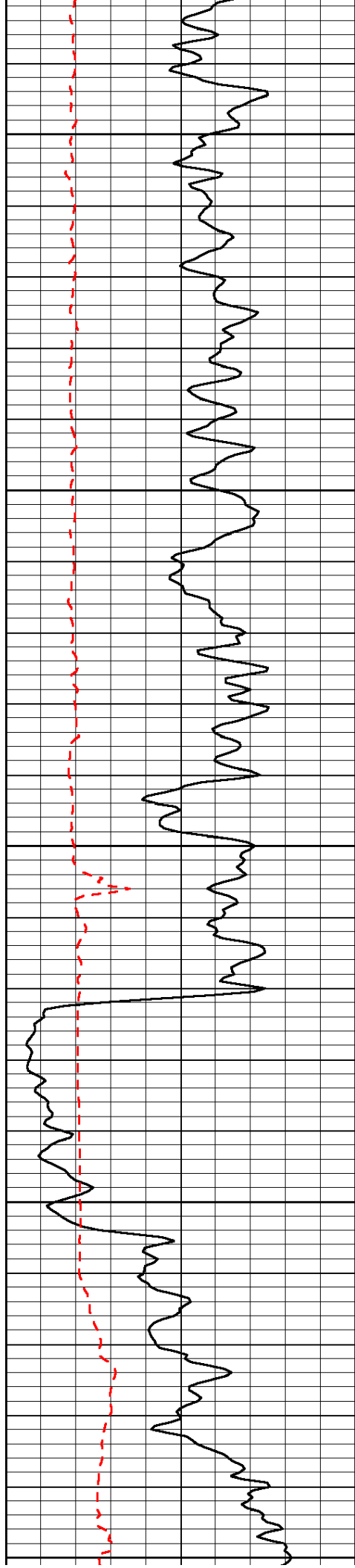


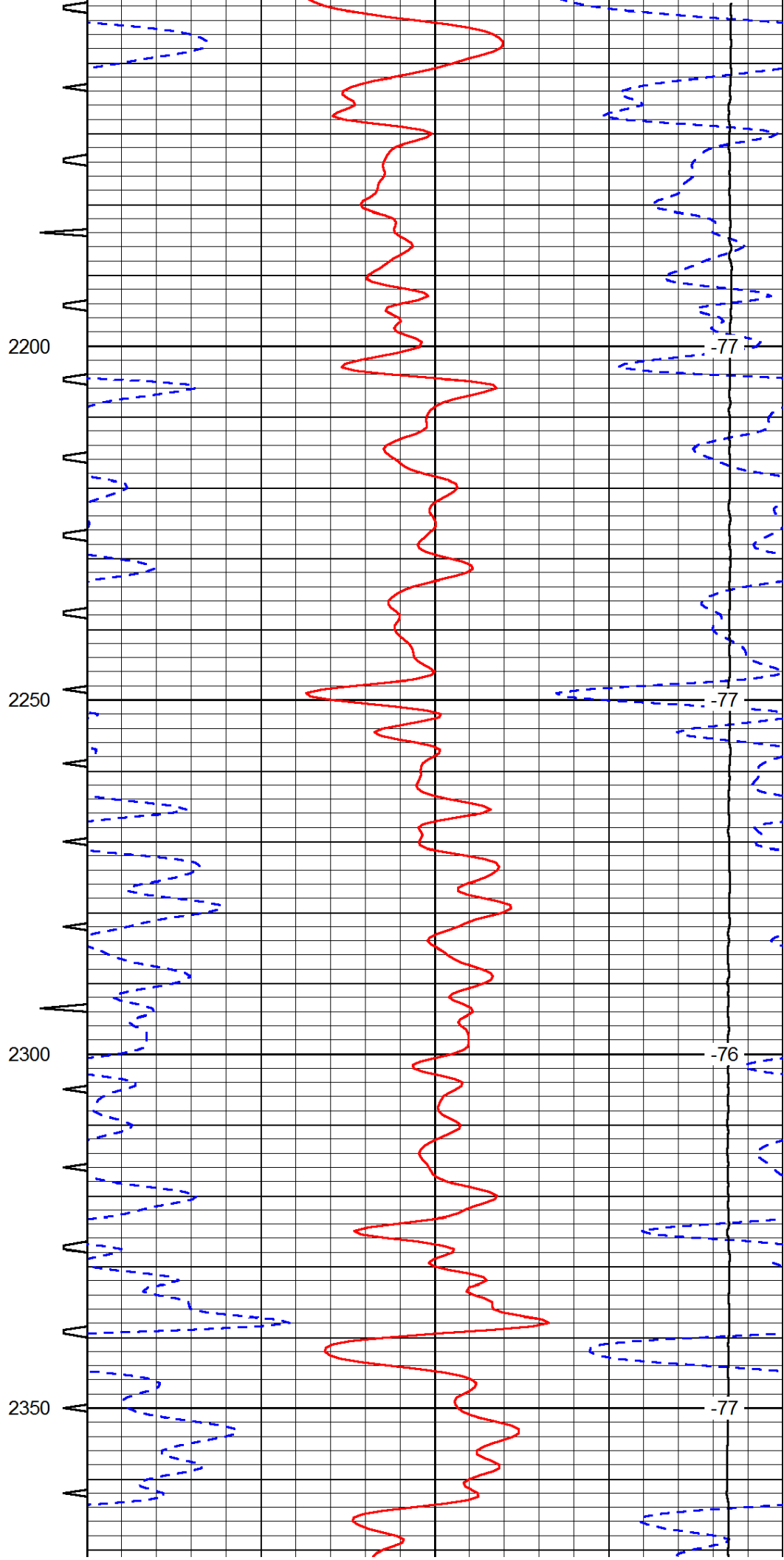
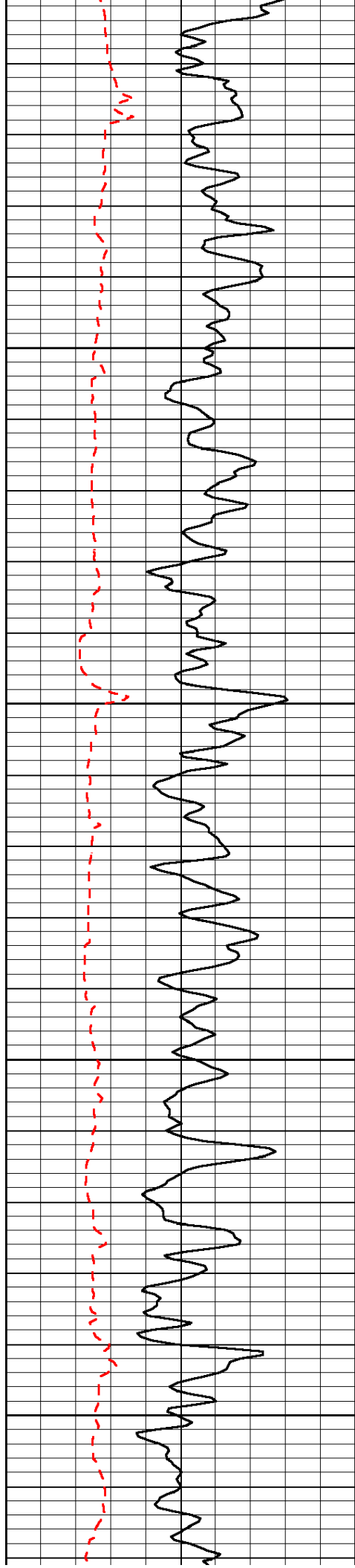


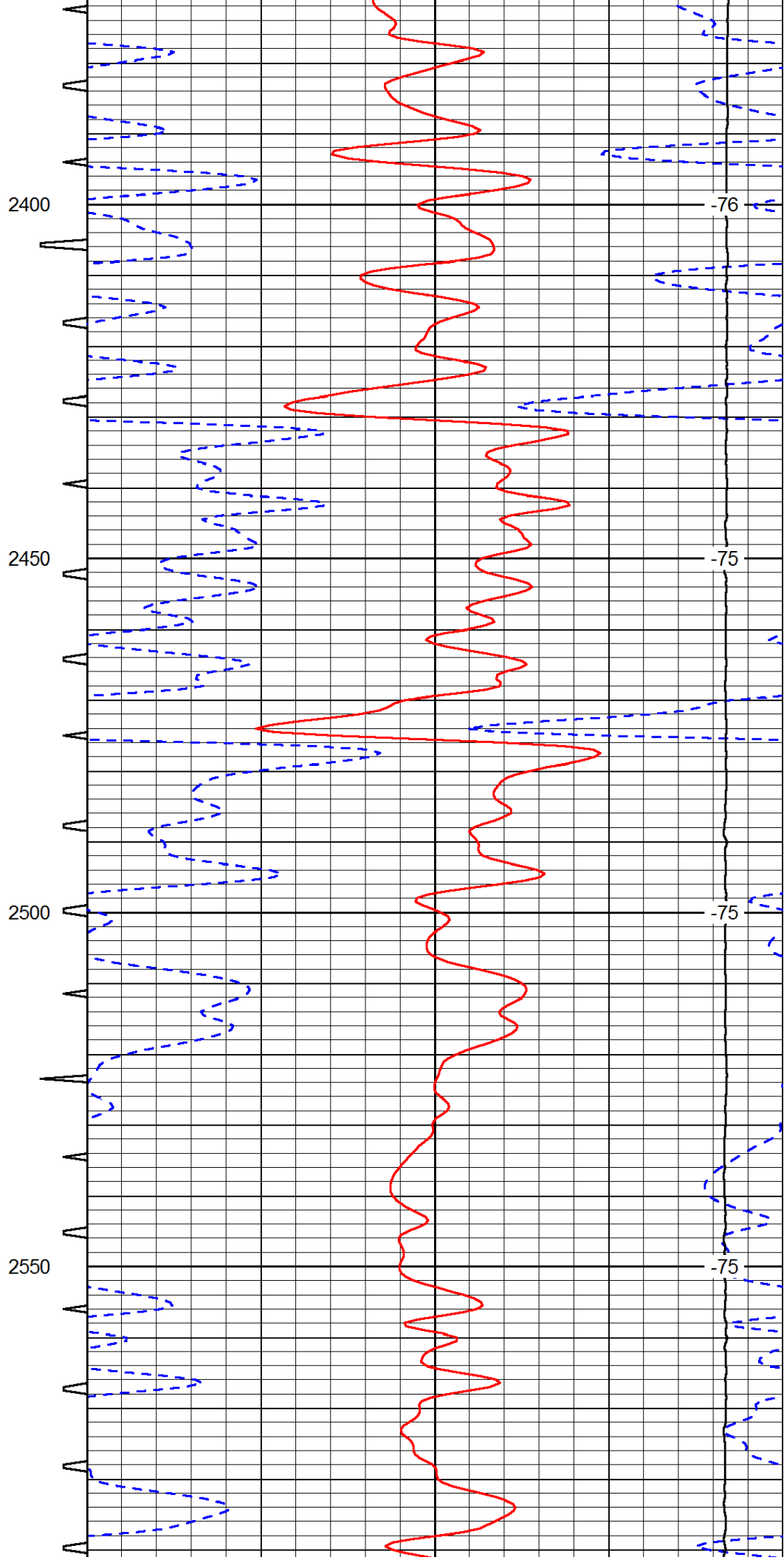
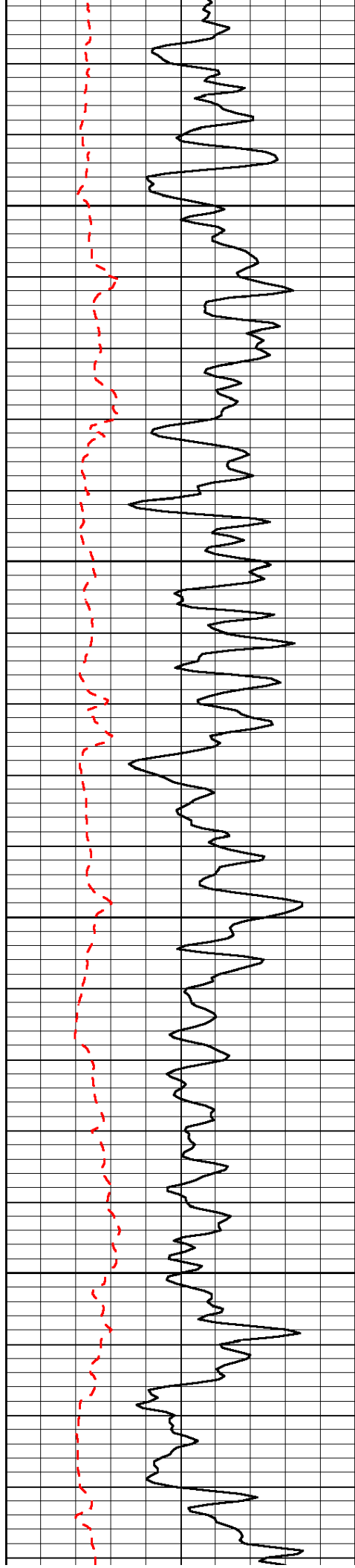


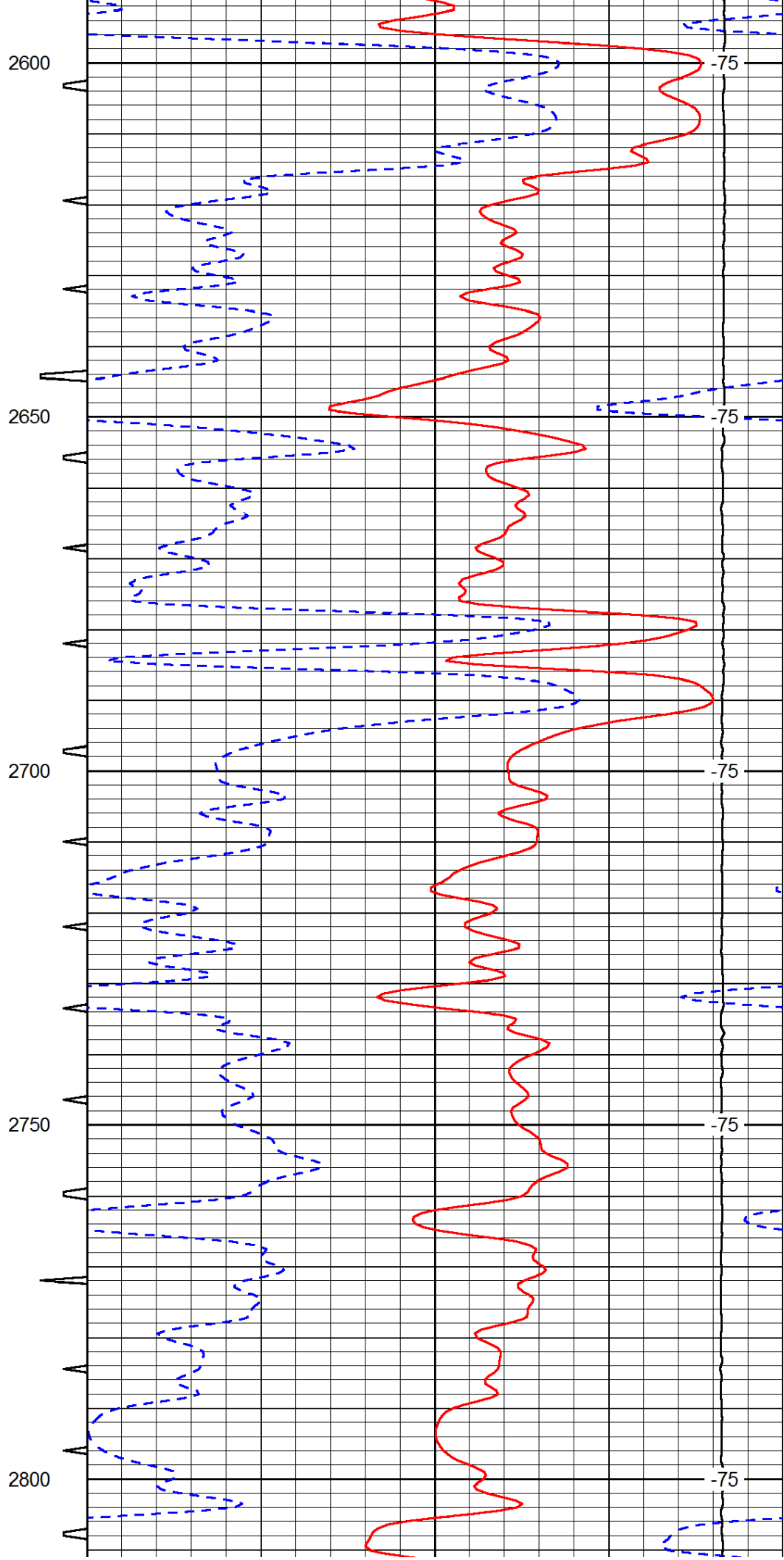
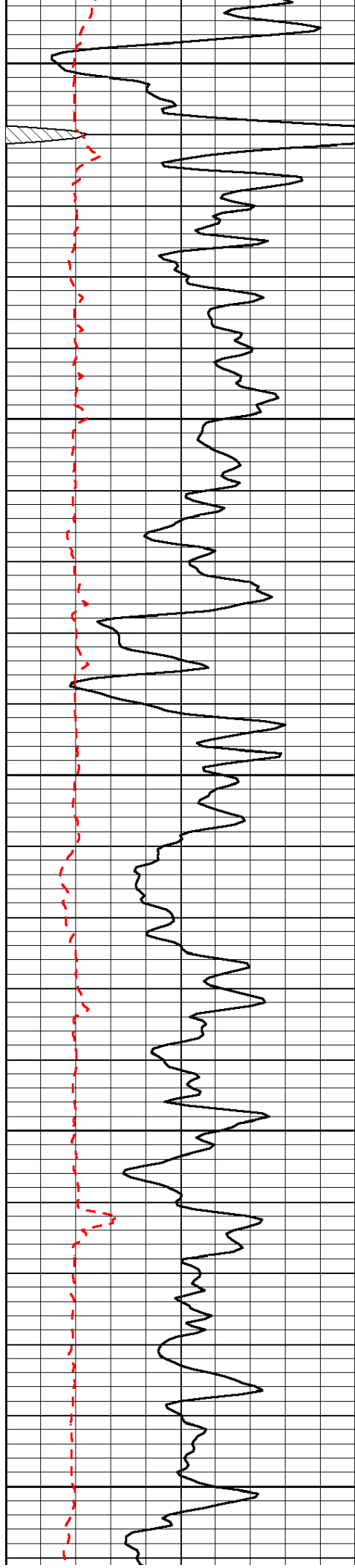


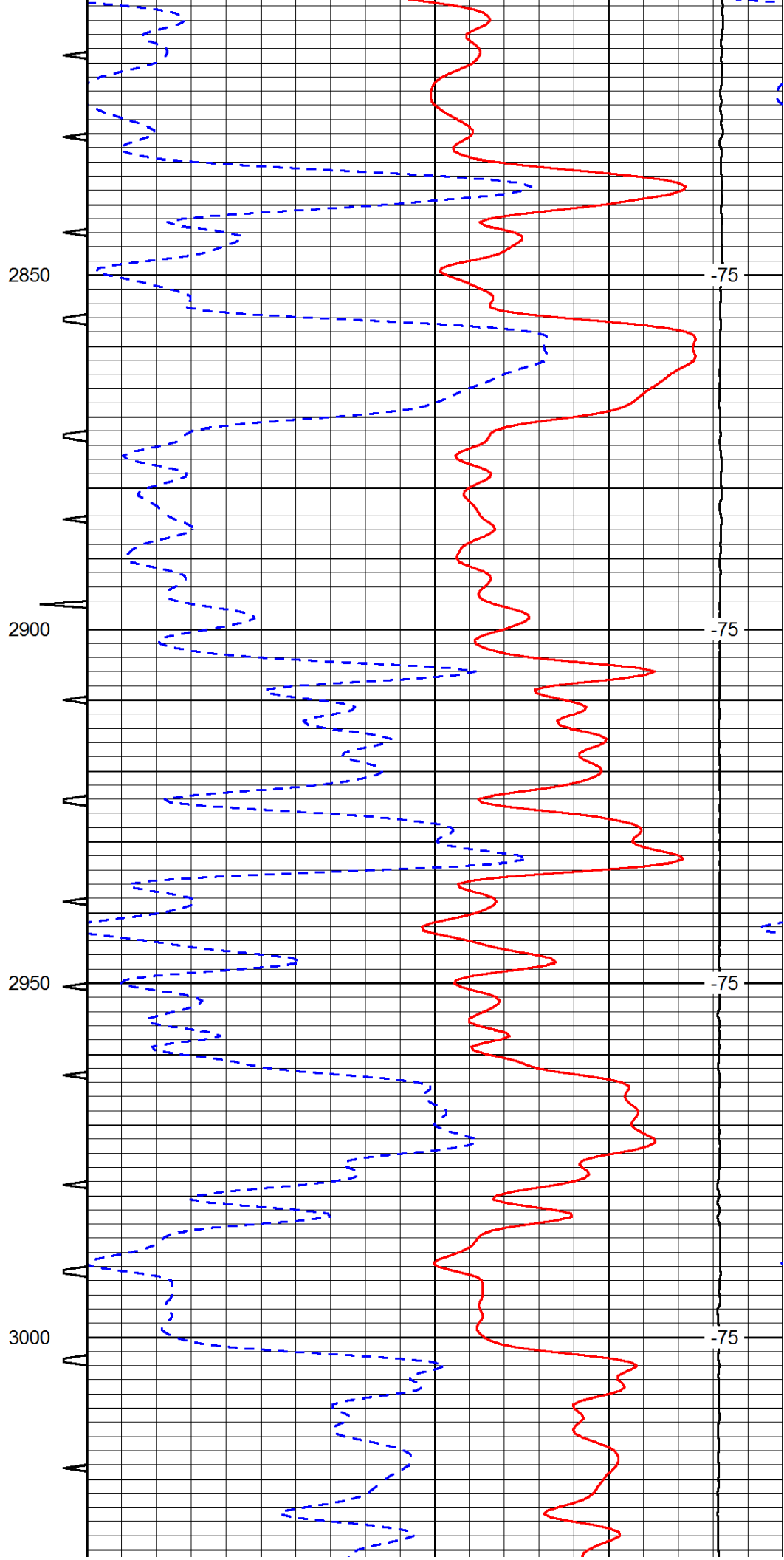
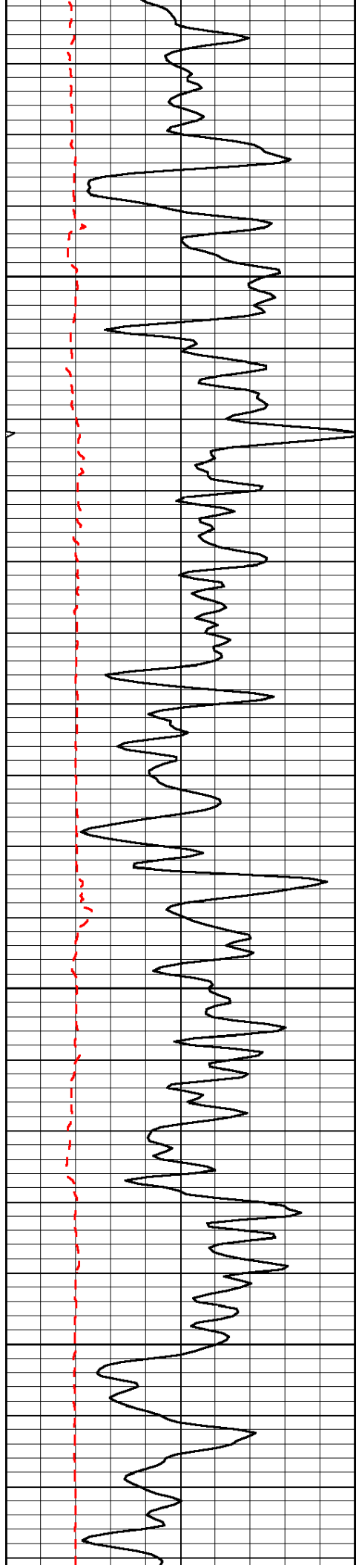


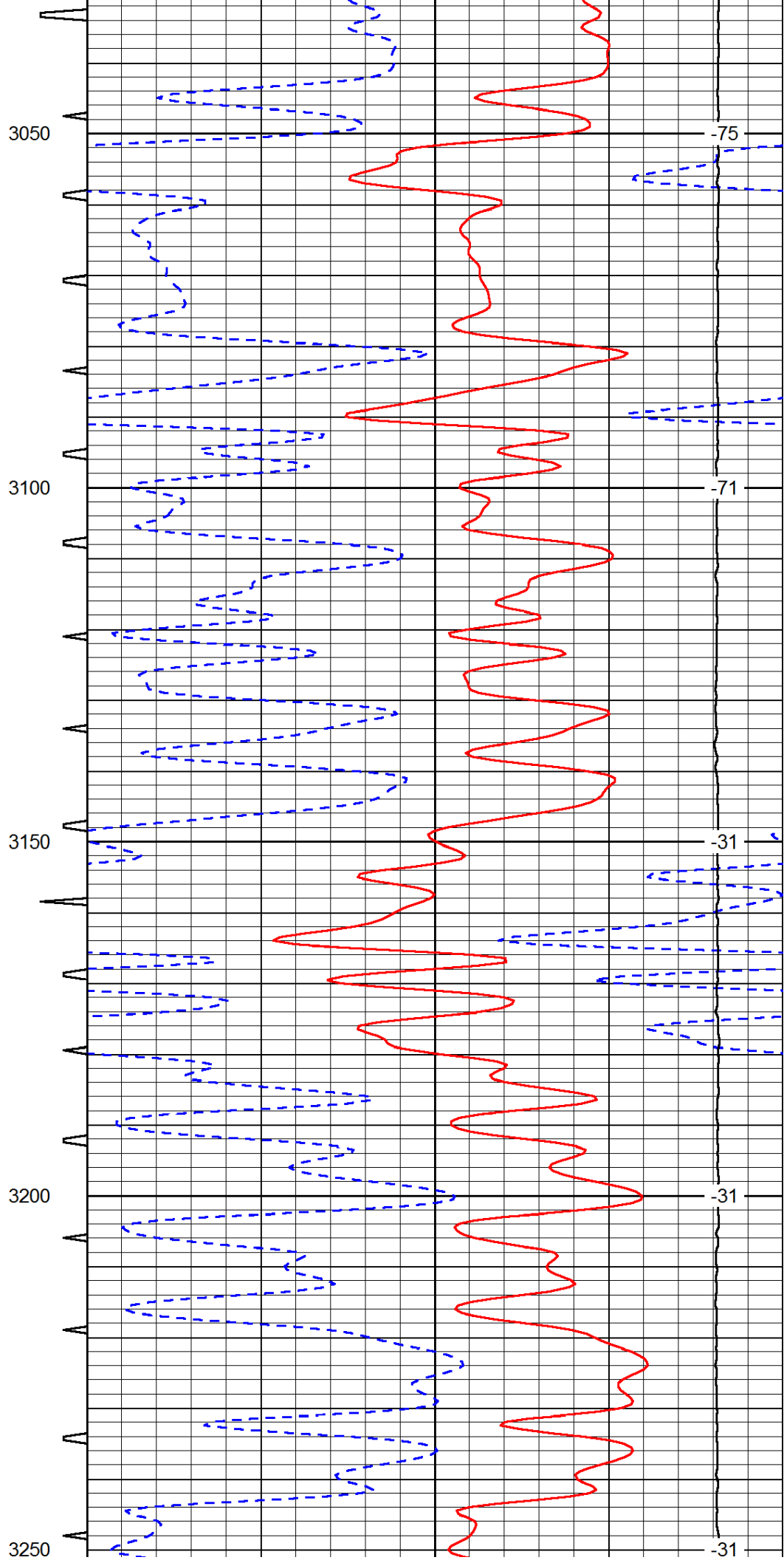
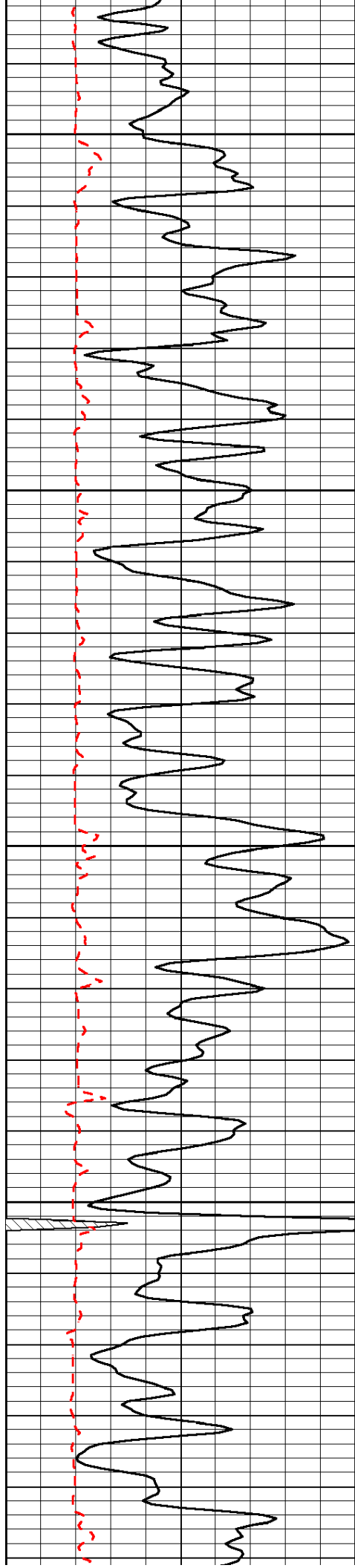


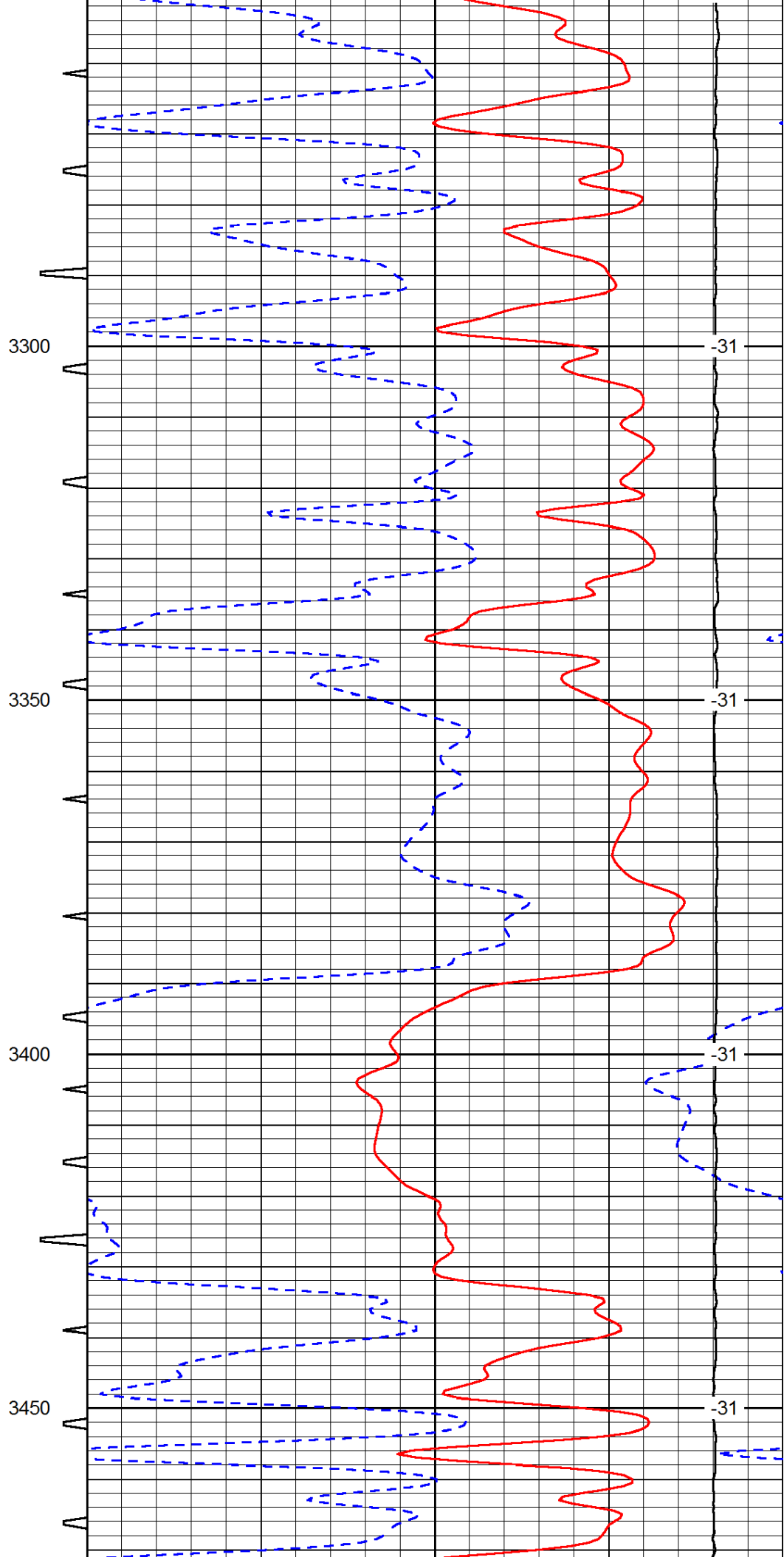
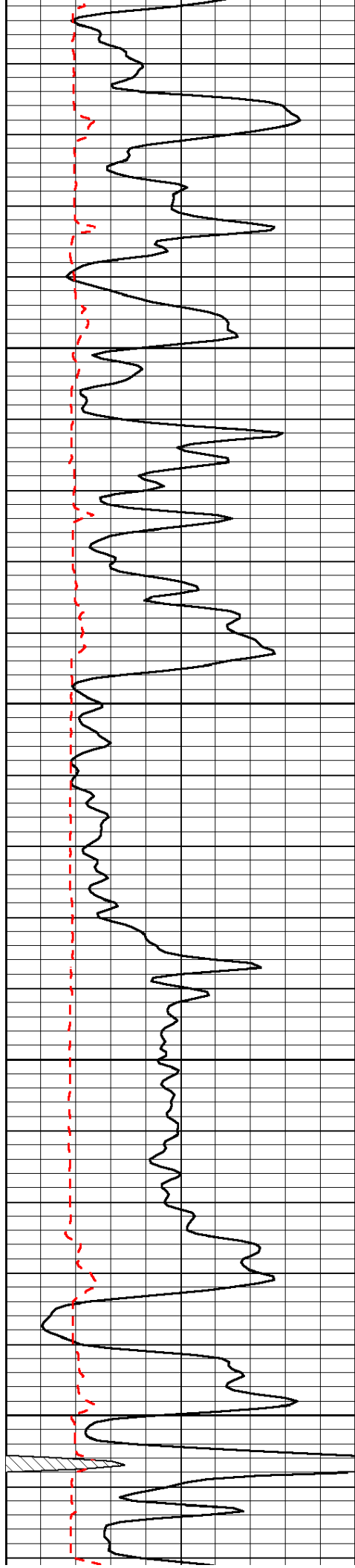


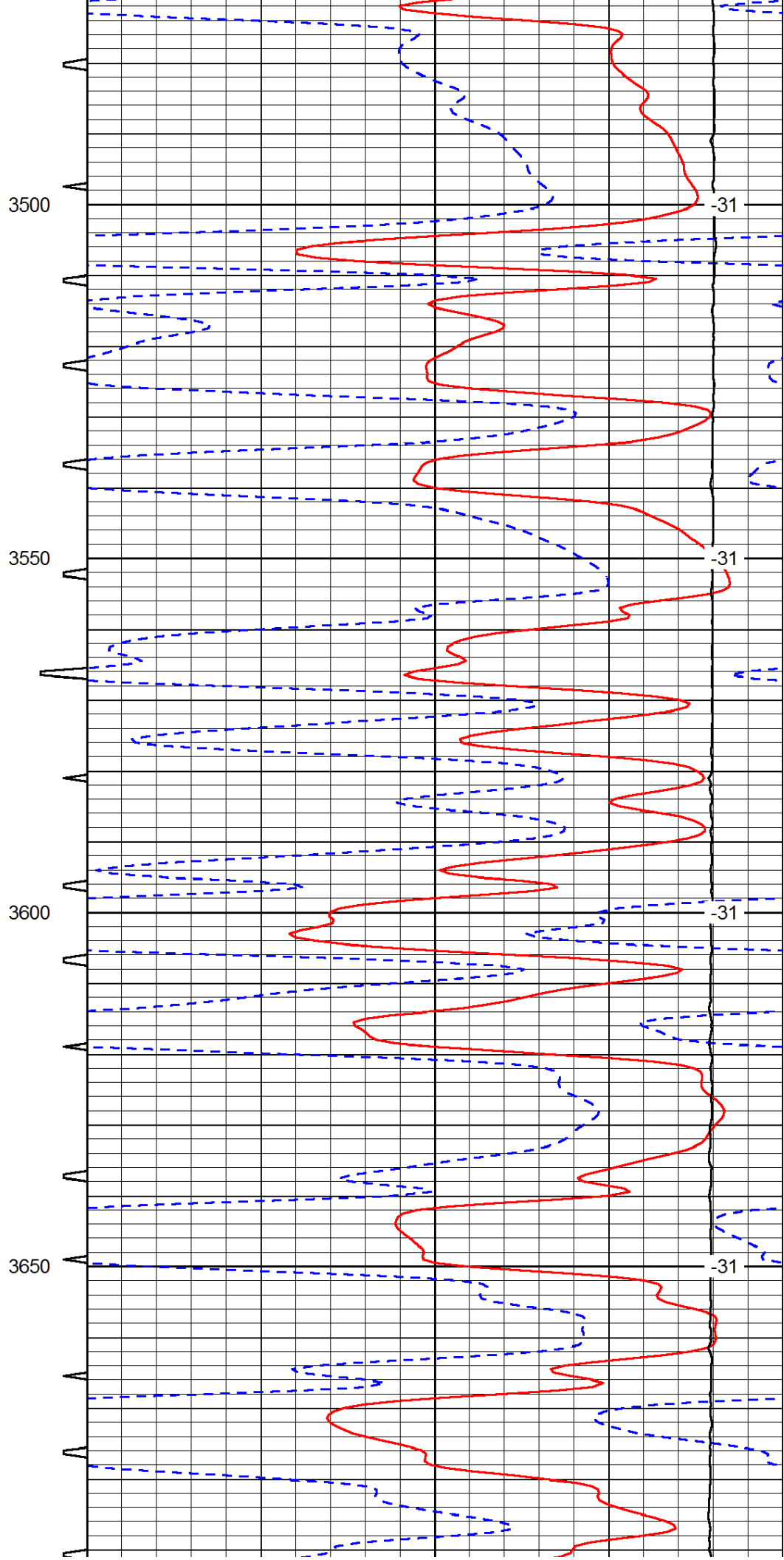
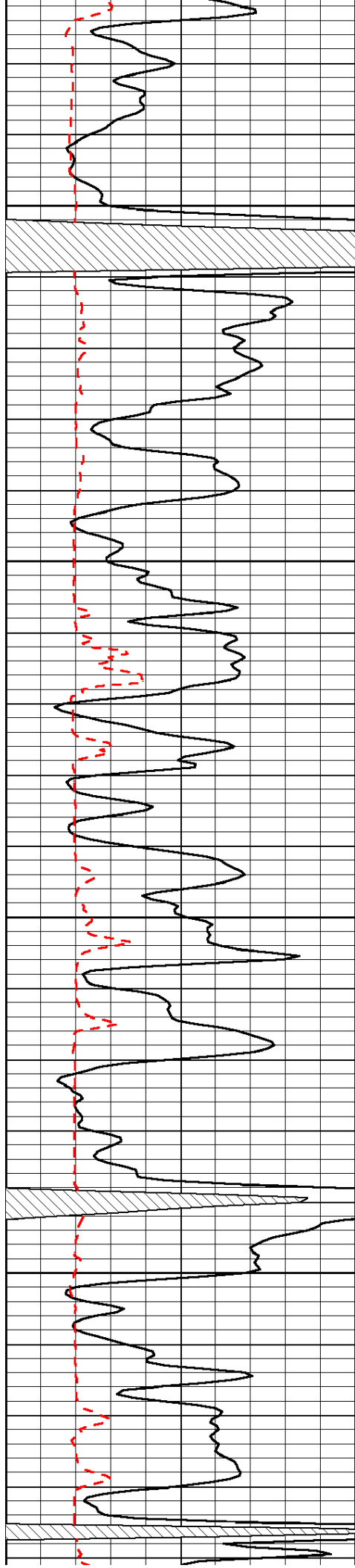


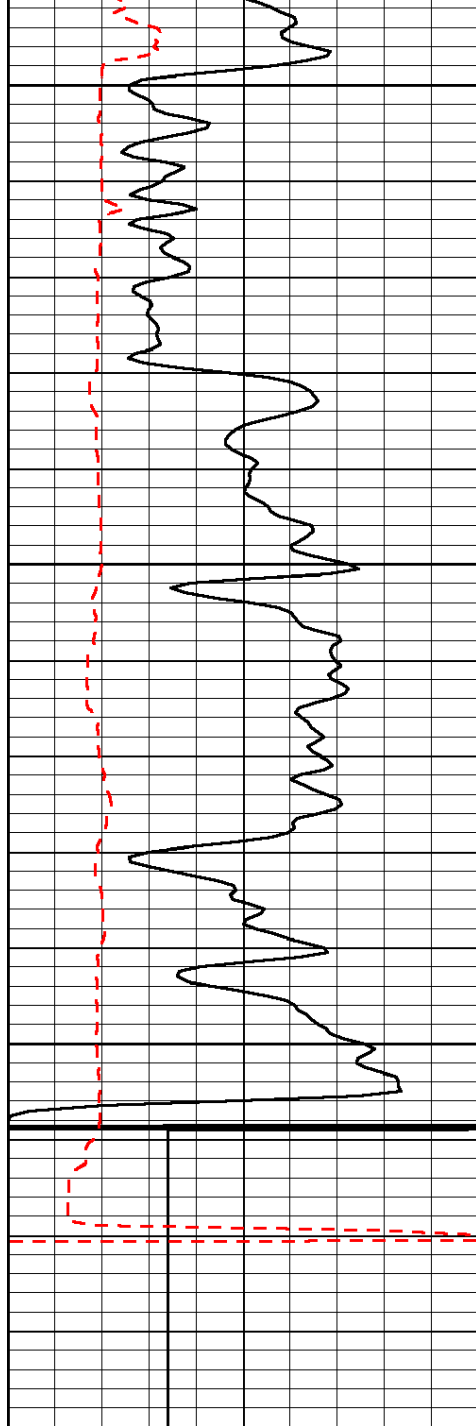




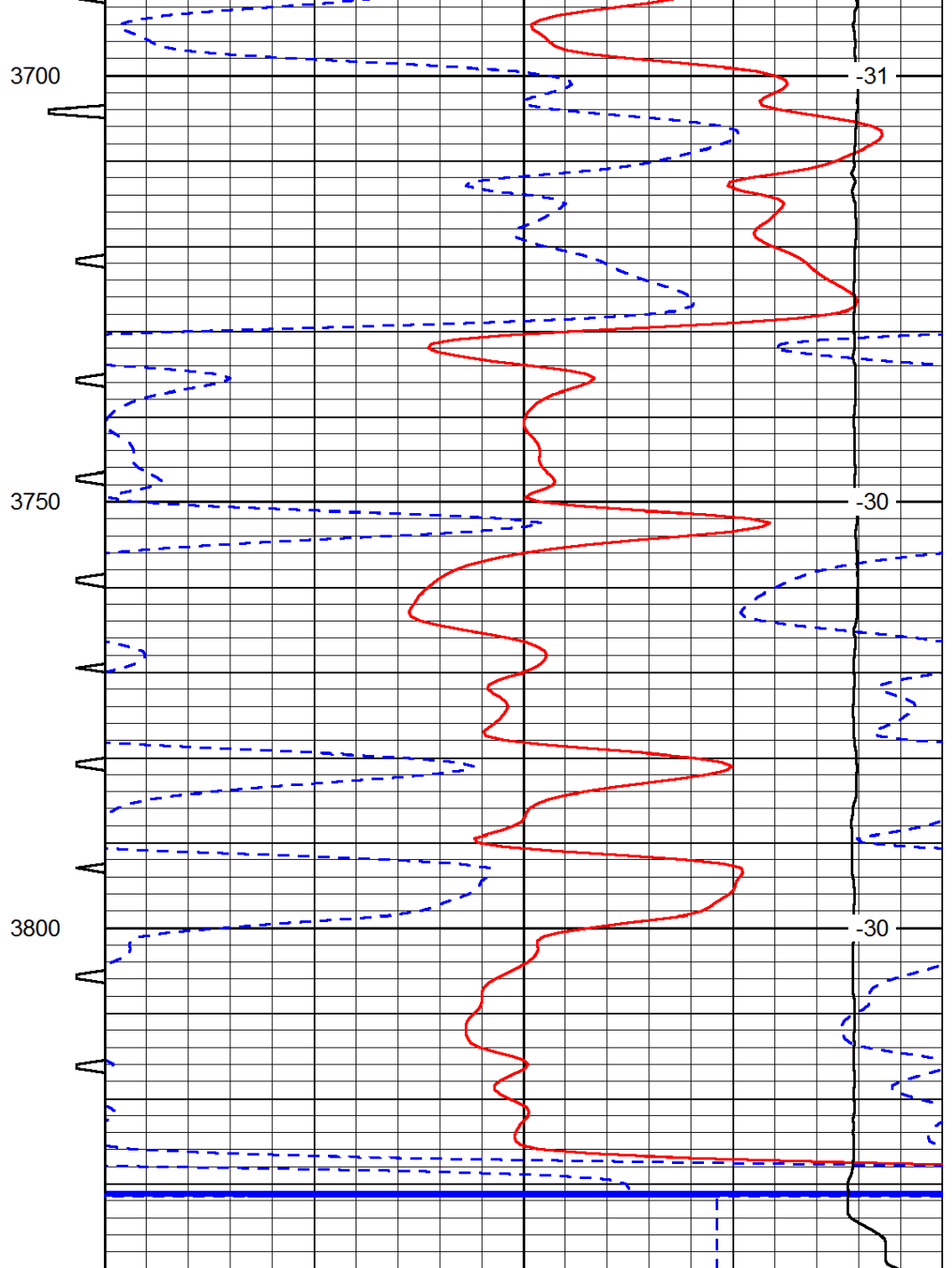








0	Gamma Ray	150
150	Gamma Ray	300
6	Caliper (GAPI)	16



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

LSPD