



Pioneer Energy Services

Borehole Compensated Sonic Log

API No.

15-009-25,846-00-00

Company American Warrior, Inc.
Well Eberhardt #2-24
Field Chase-Silica
County Barton State Kansas

Location

SW NE SW NW
1930' FNL & 957' FWL

Sec: 24

Twp: 19S

Rge: 11W

Other Services
CNL/CDL
MEL/DIL

Permanent Datum Ground Level Elevation 1772
Log Measured From Kelly Bushing 8 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Elevation
K.B. 1780
D.F. 1772
G.L. 1772

Date

7/11/2013

Run Number

Two

Type Log

BHC Sonic

Depth Driller

3400

Depth Logger

3401

Bottom Logged Interval

3400

Top Logged Interval

300

Type Fluid In Hole

Chemical

Salinity, PPM CL

7400

Density

9.0

Level

Full

Max. Rec. Temp. F

110

Operating Rig Time

4 1/2 Hours

Equipment -- Location

15 Days

Recorded By

D Kerr

Witnessed By

Wyatt Urban

Borehole Record

Casing Record

Run No.

Bit

From

To

Size

Wgt.

From

To

1

12.25

00

321

8.625

24#

00

321

2

7.875

321

3400

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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.

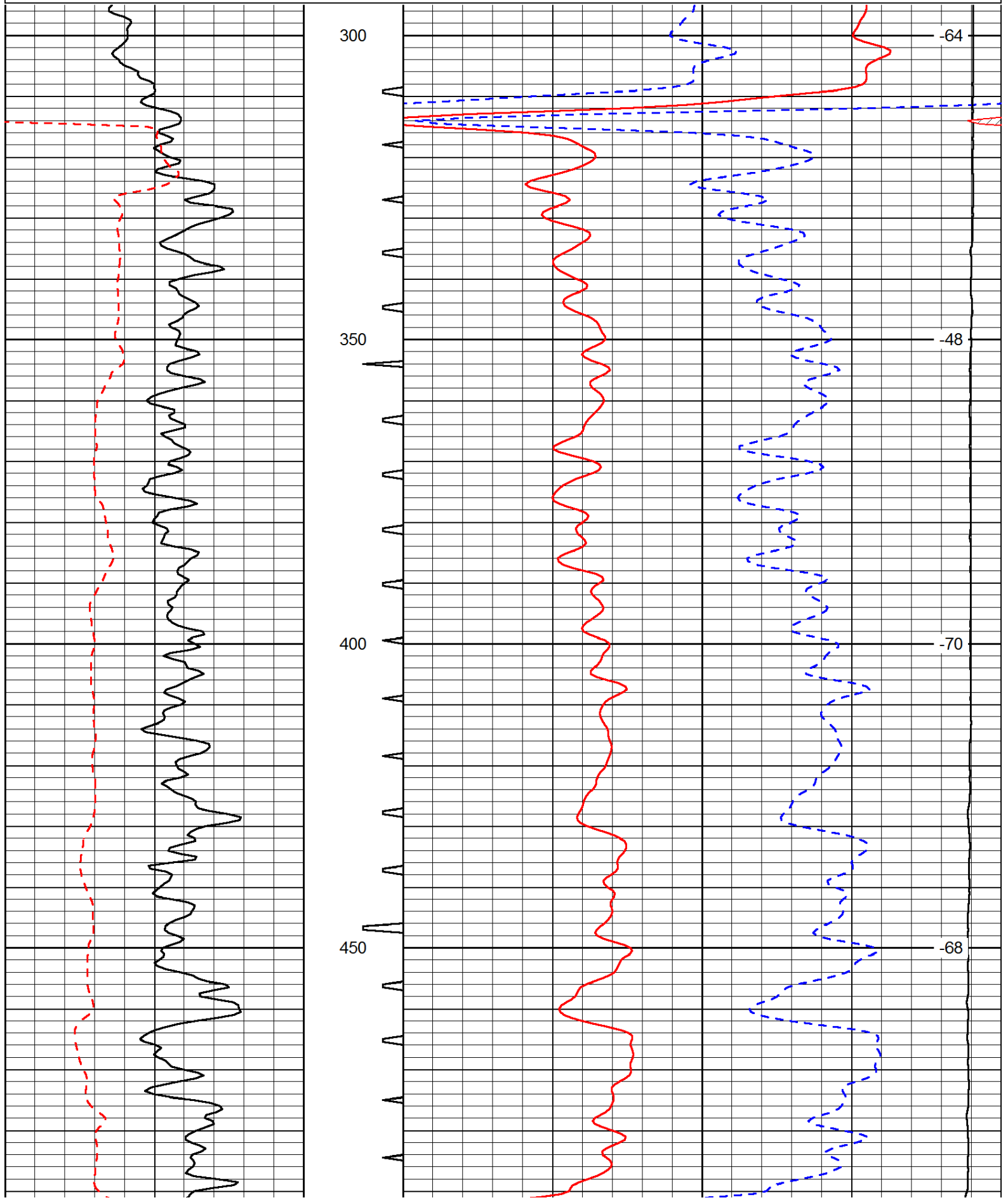
Comments

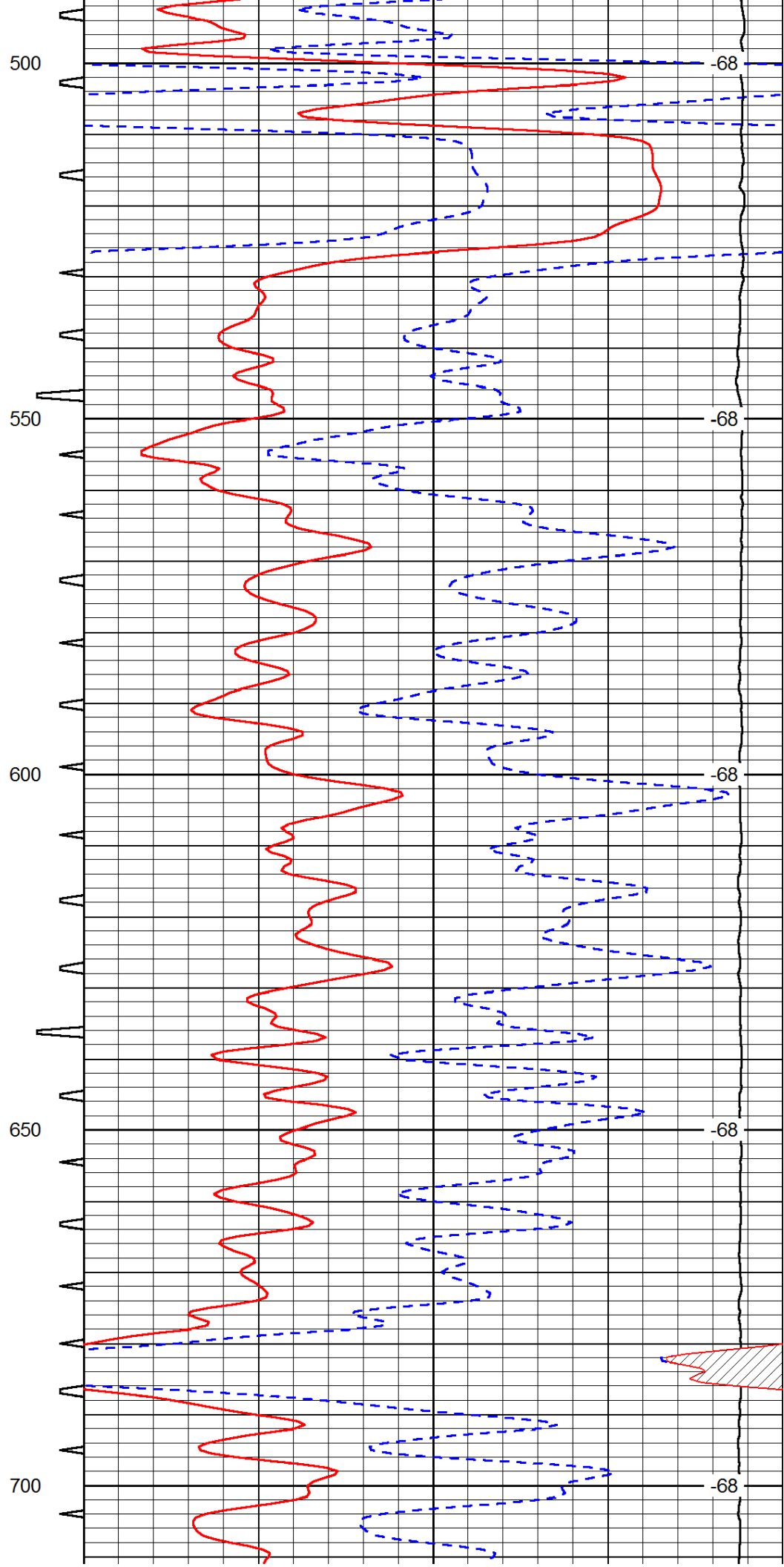
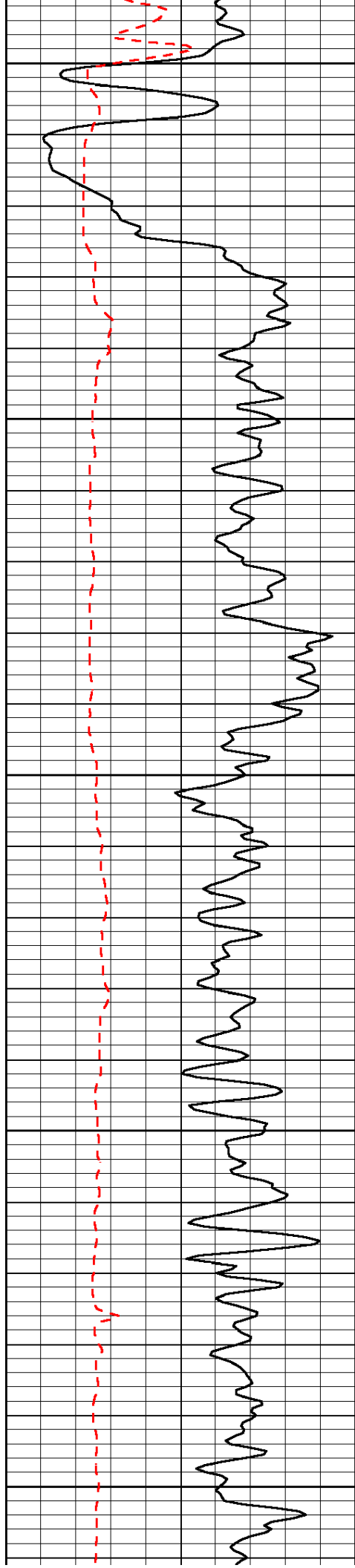
Thank you for using Pioneer Energy Services
www.pioneerres.com
785 625 3858

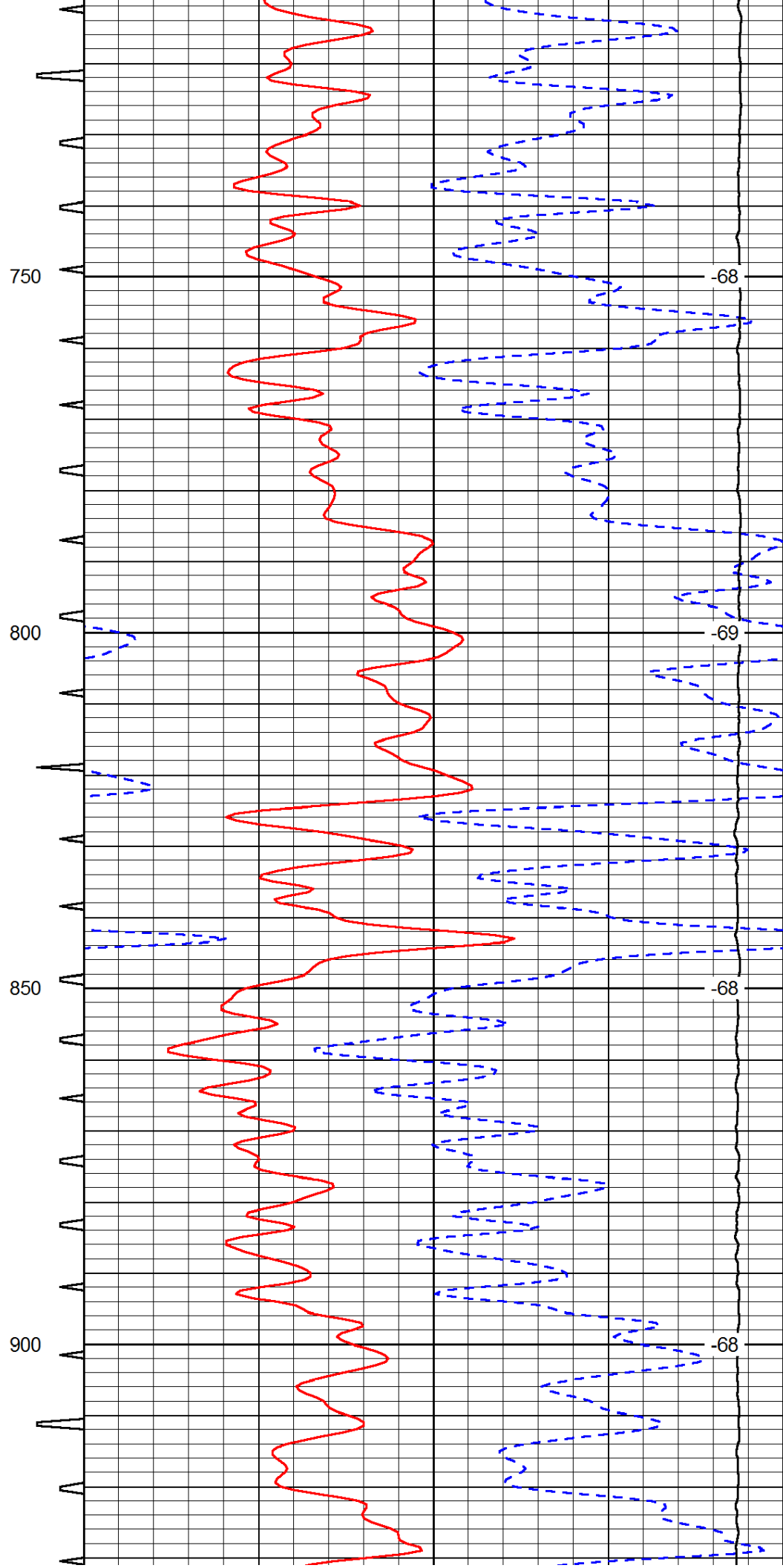
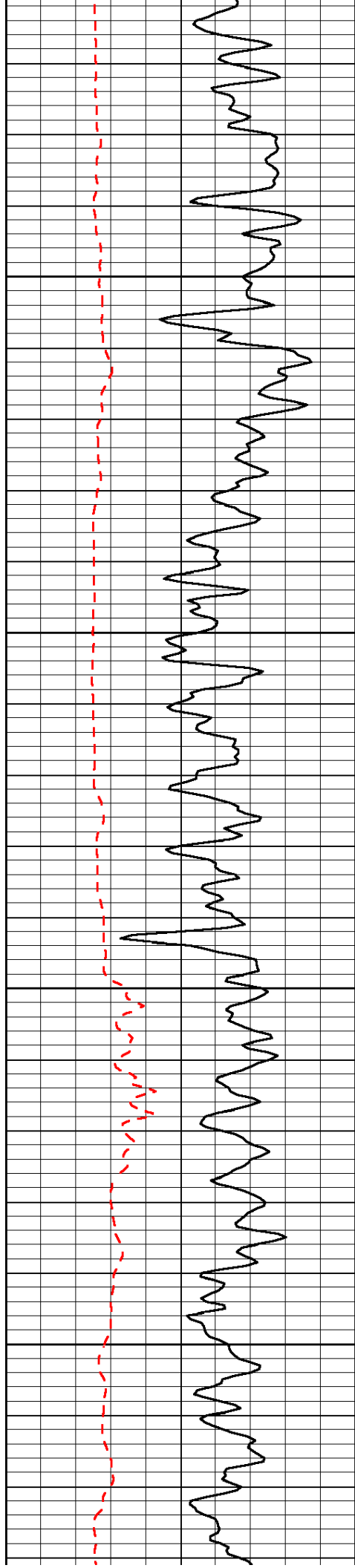
Ellinwood KS, 1 North on Hirsh RD,
4 East to 150 RD, 1/2 North, East Into

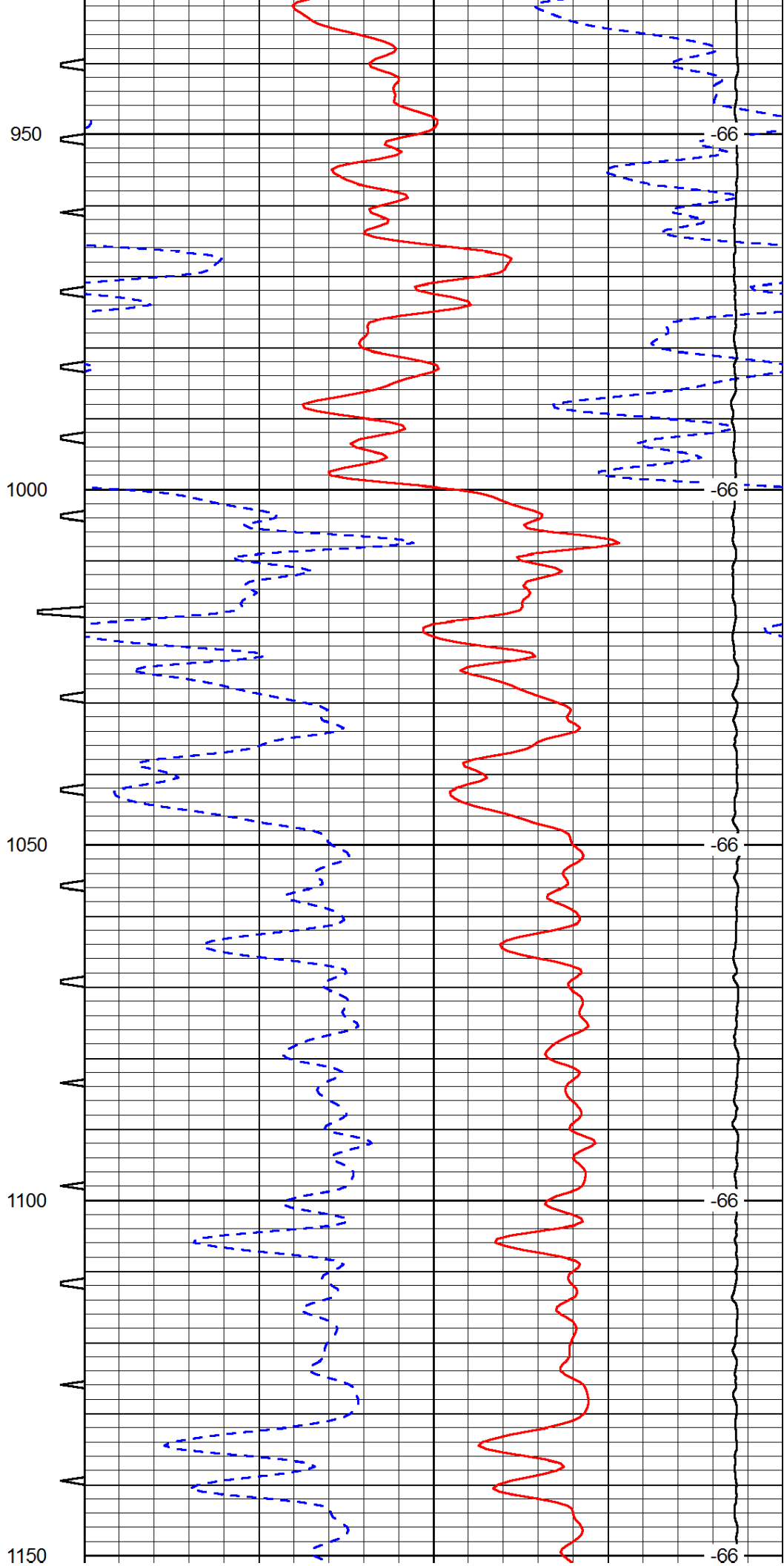
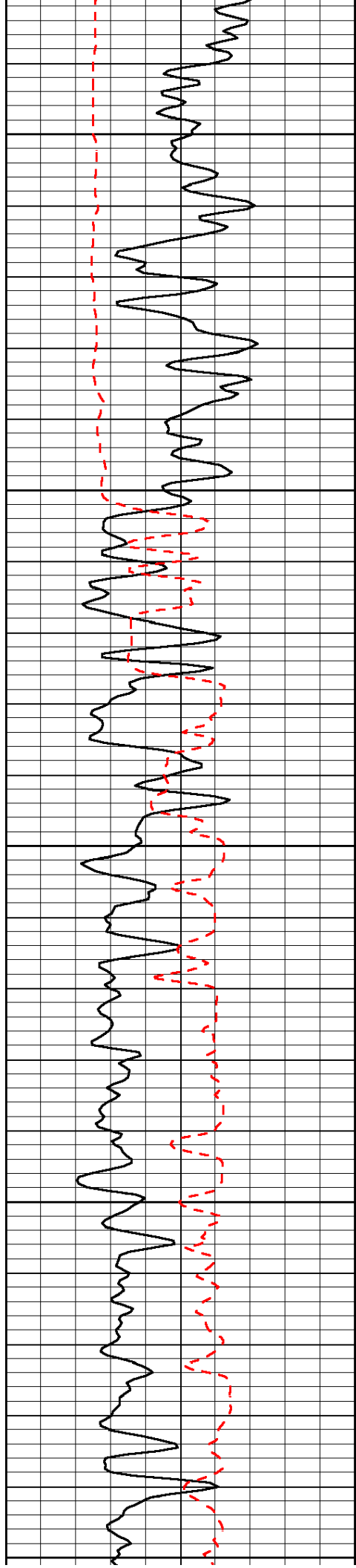
Database File: c:\warrior\data\amwar_eberhardt #2-24\amwarrior_eberhardt_2_24hd.db
Dataset Pathname: DIL\awstk
Presentation Format: sonic
Dataset Creation: Thu Jul 11 09:07:23 2013
Charted by: Depth in Feet scaled 1:240

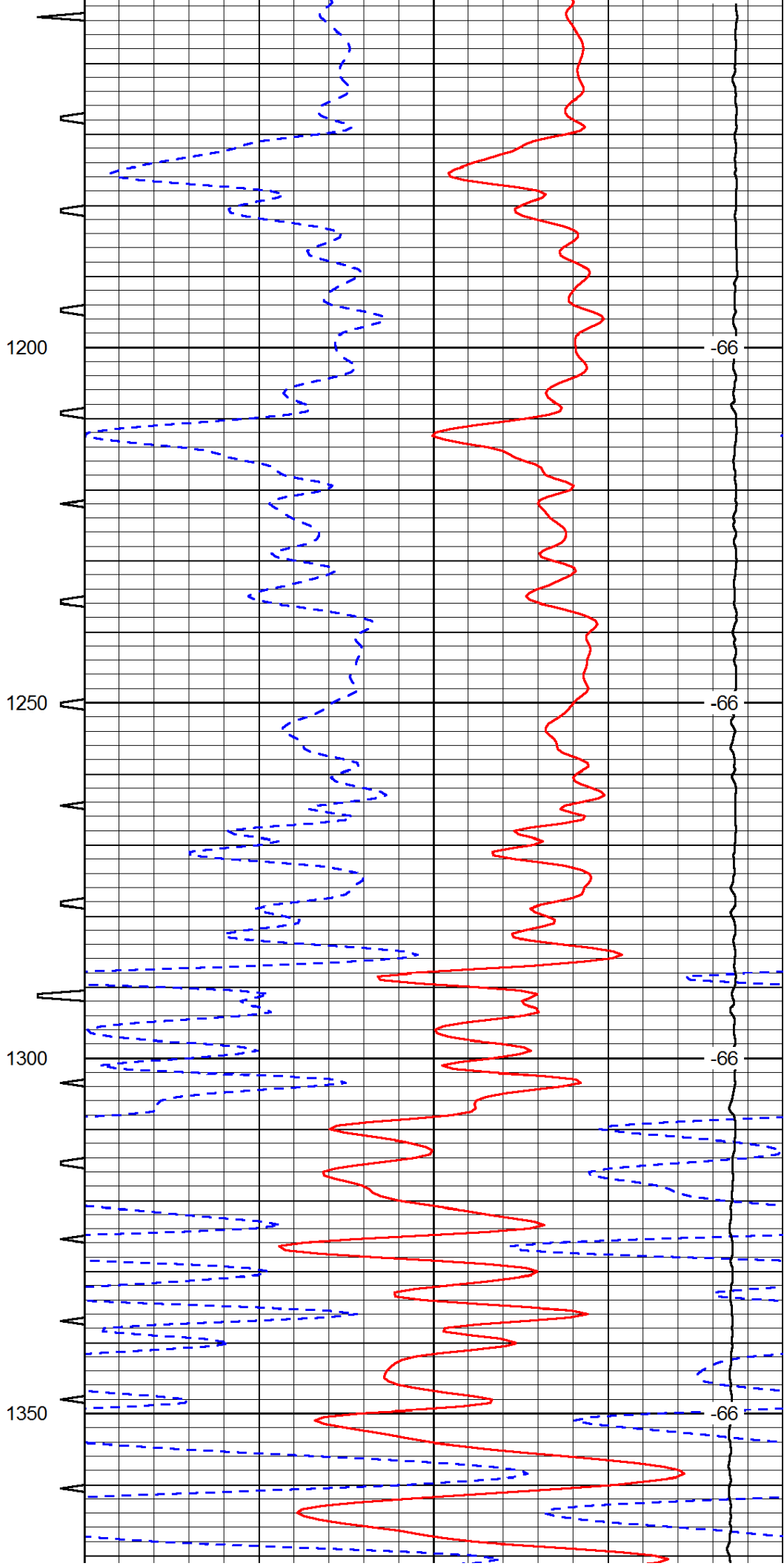
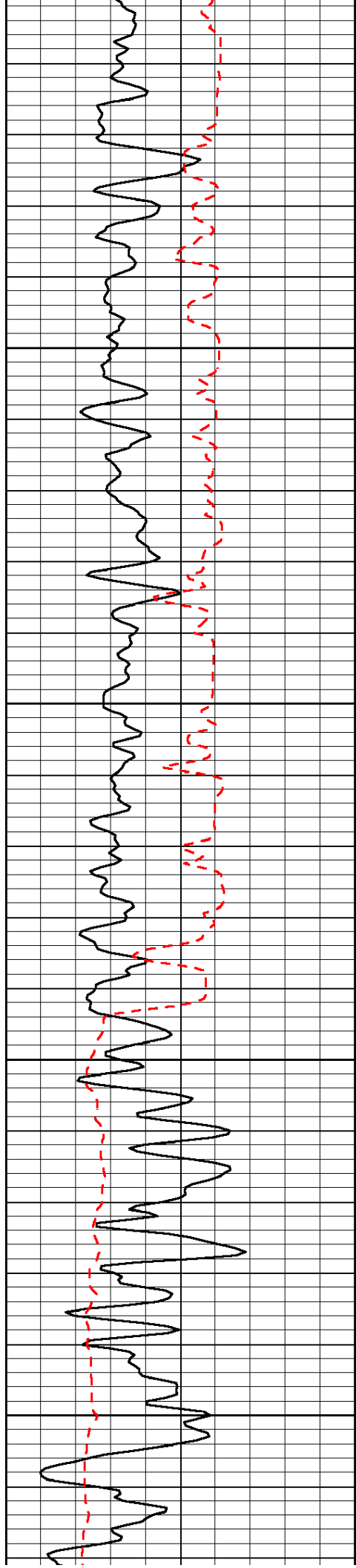
Charted by:			Depth in Feet scaled 1:2.16			
0	Gamma Ray	150	Sonic Int	140	Delta Time (usec/ft)	40
150	Gamma Ray	300		30	SPOR	-10
6	Caliper (GAPI)	16		15000	LTEN (lb)	0
					LSPD	

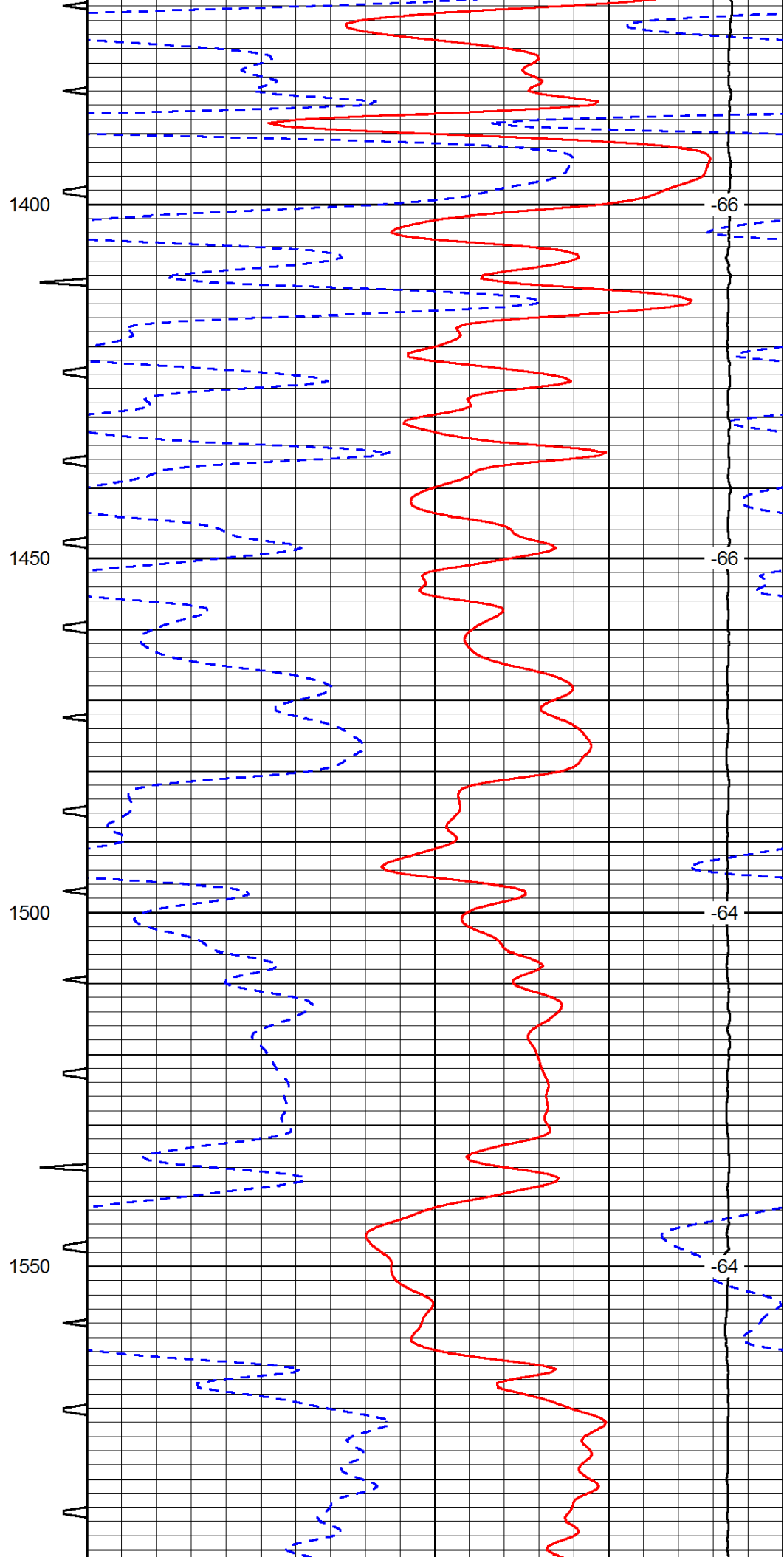
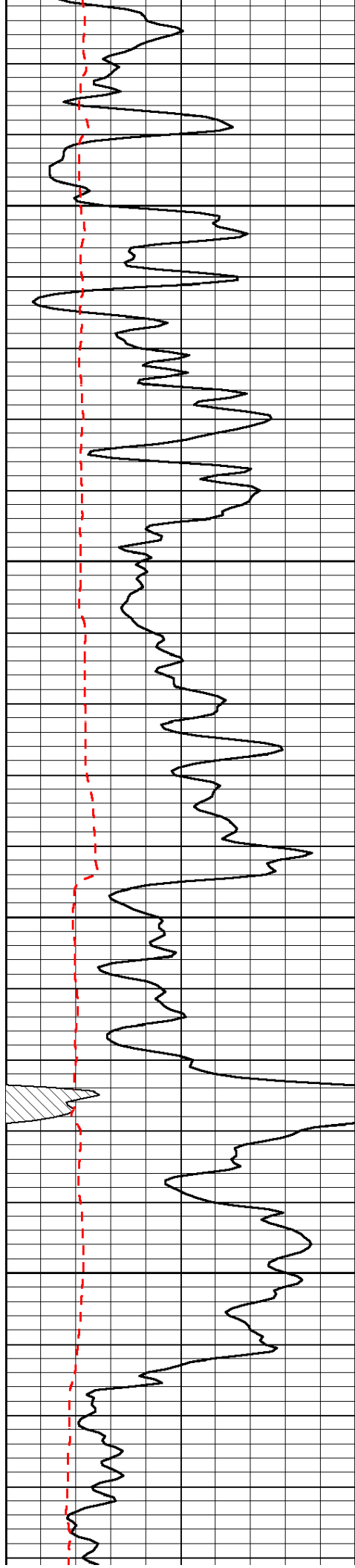


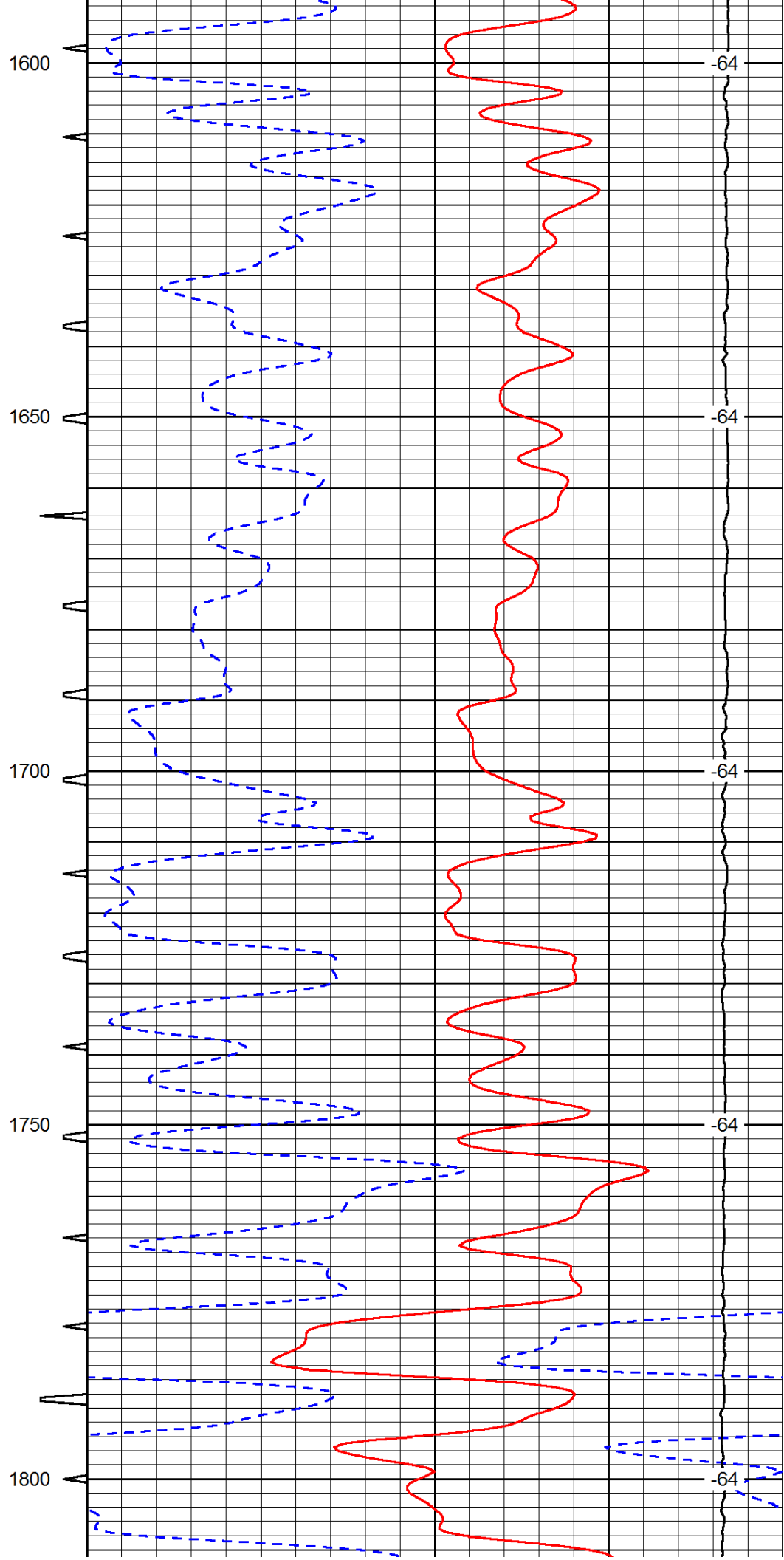
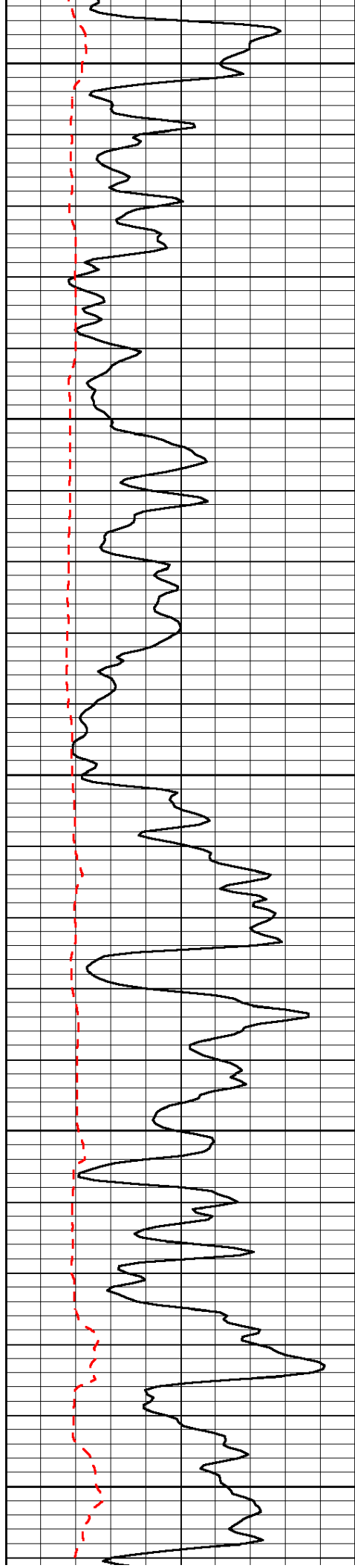


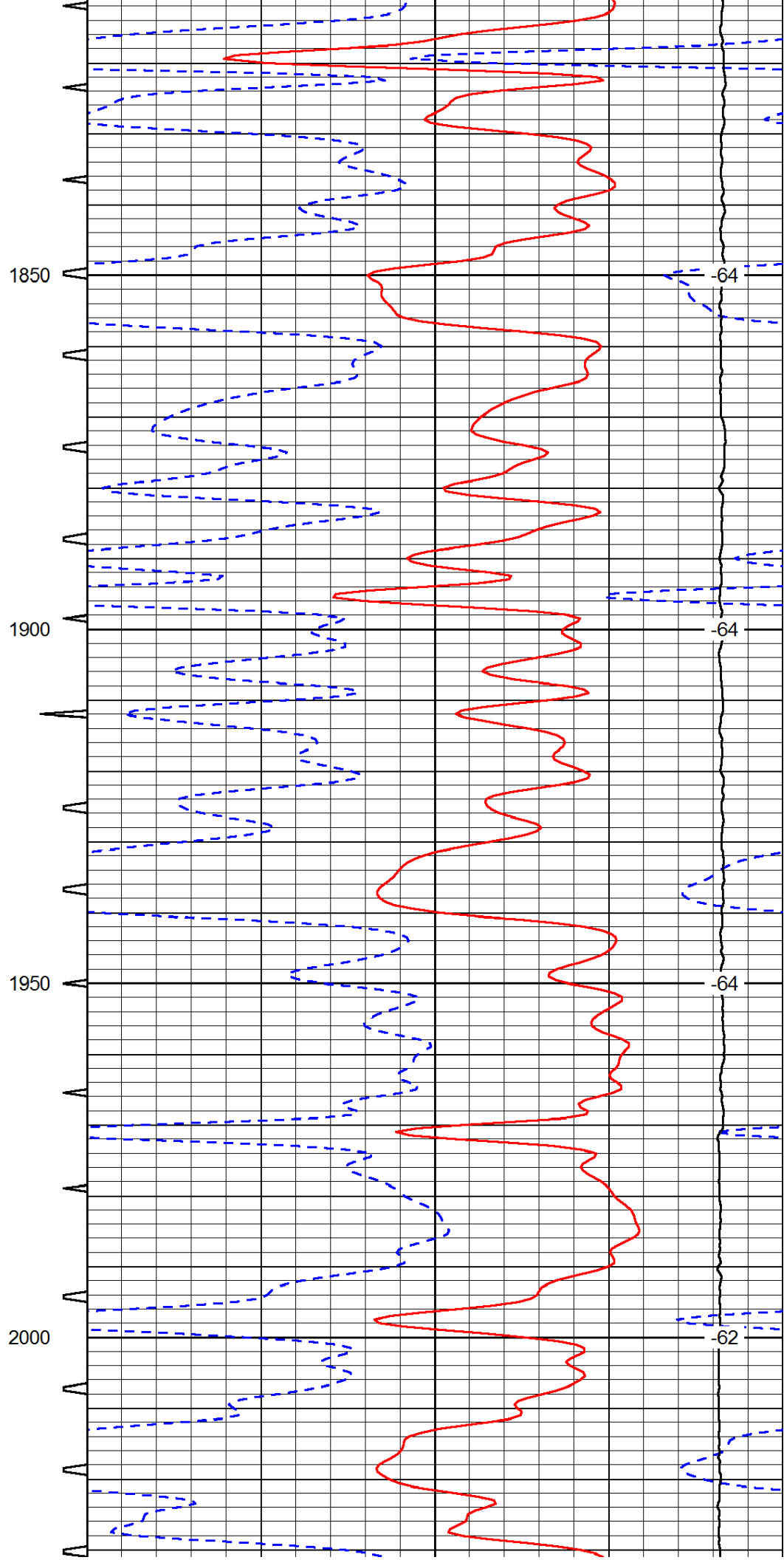
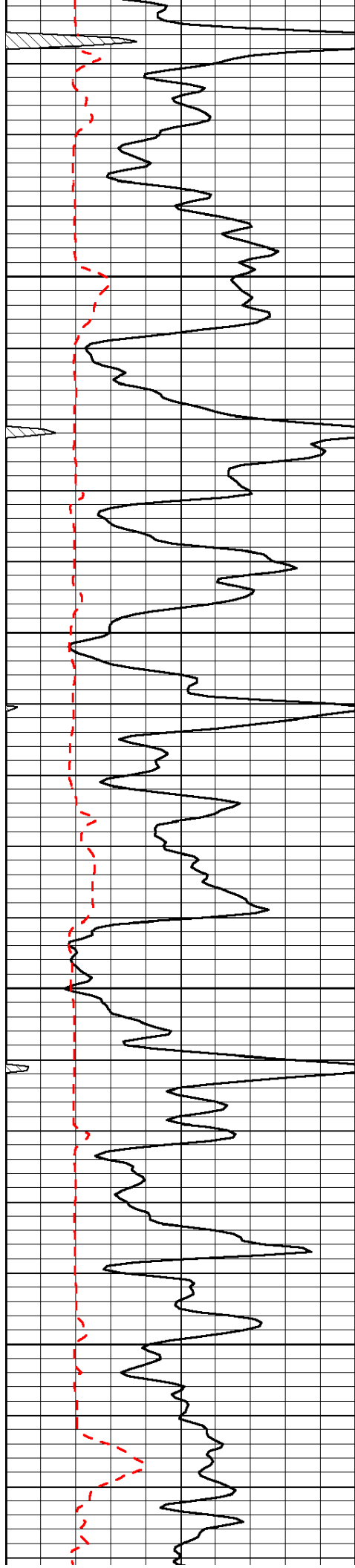


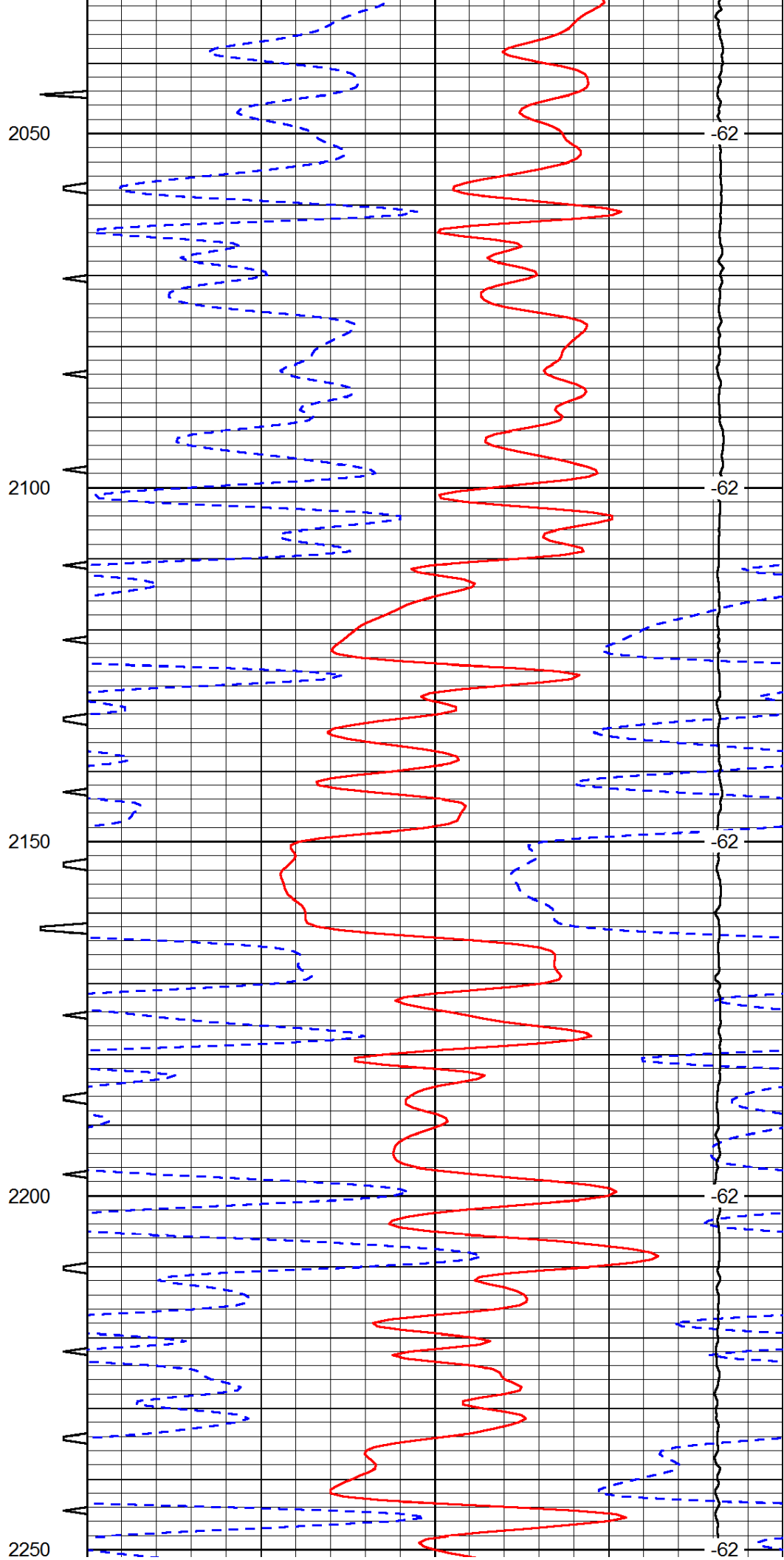
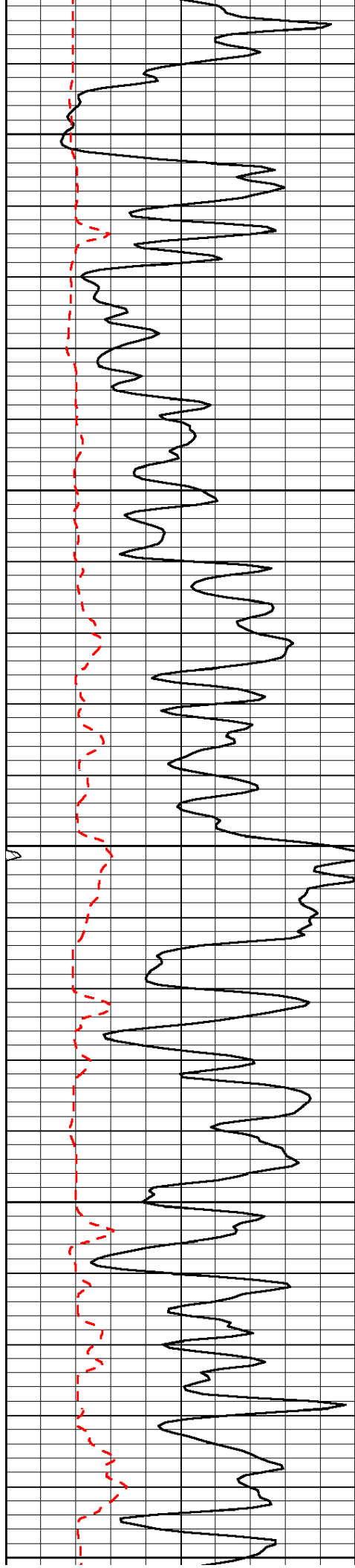


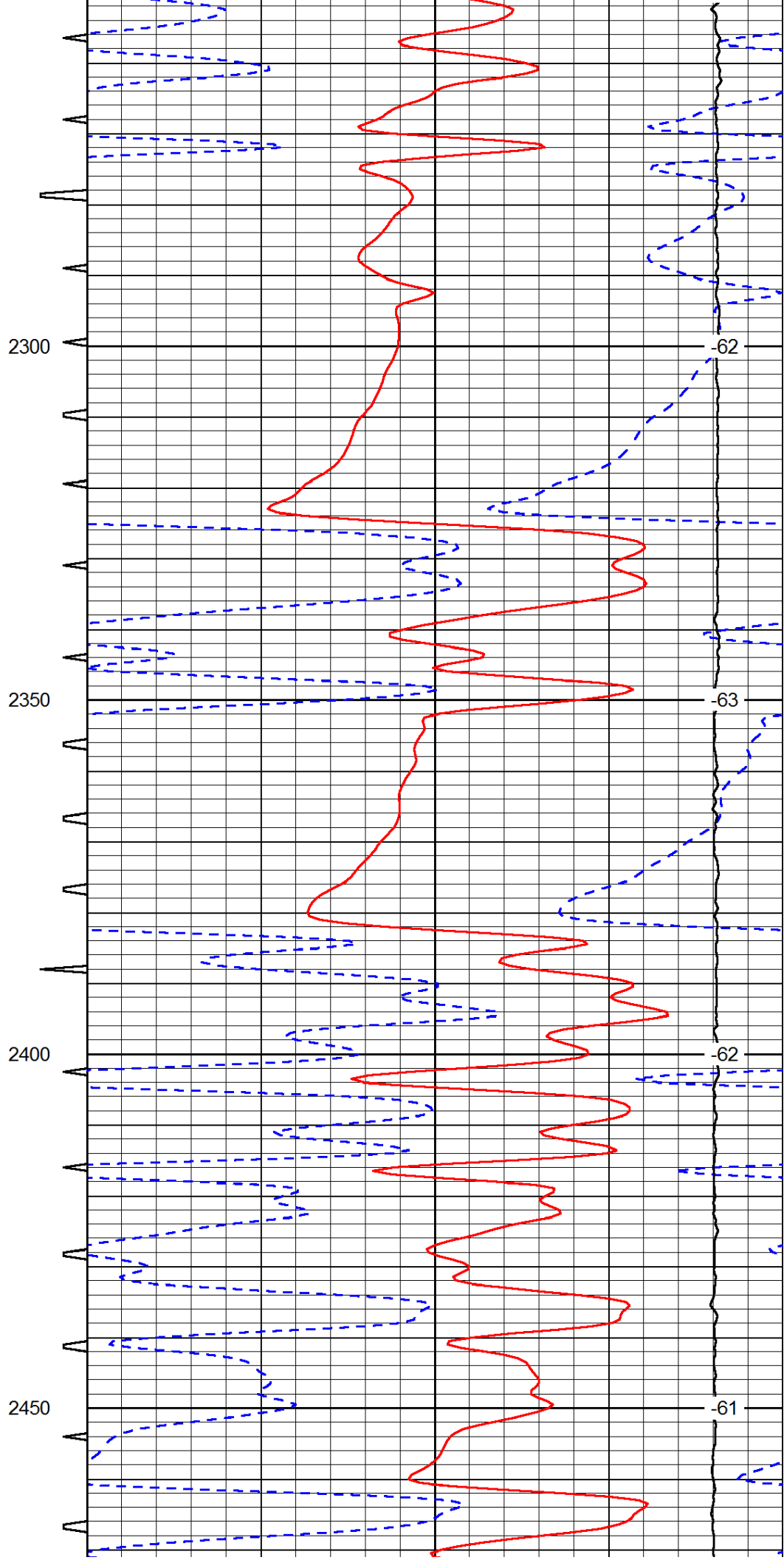
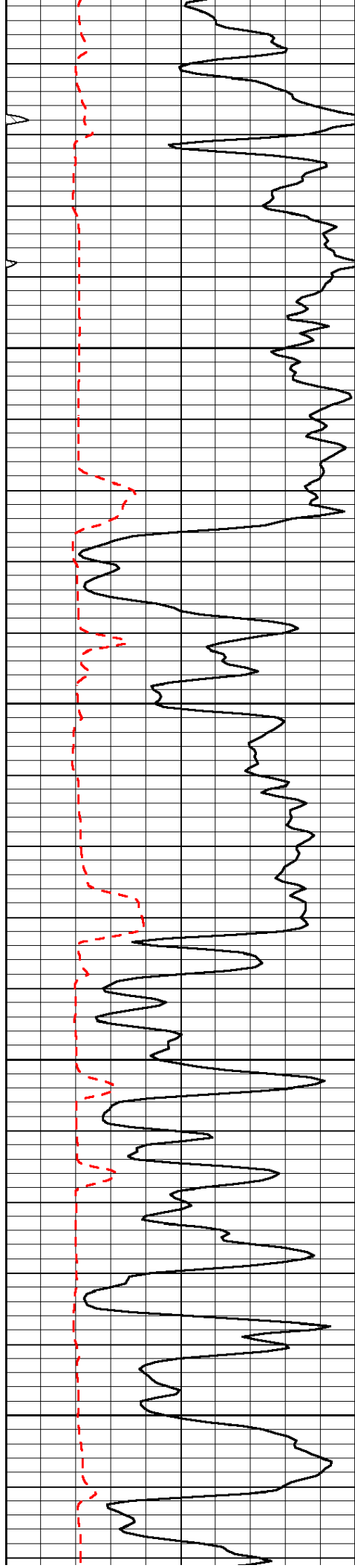


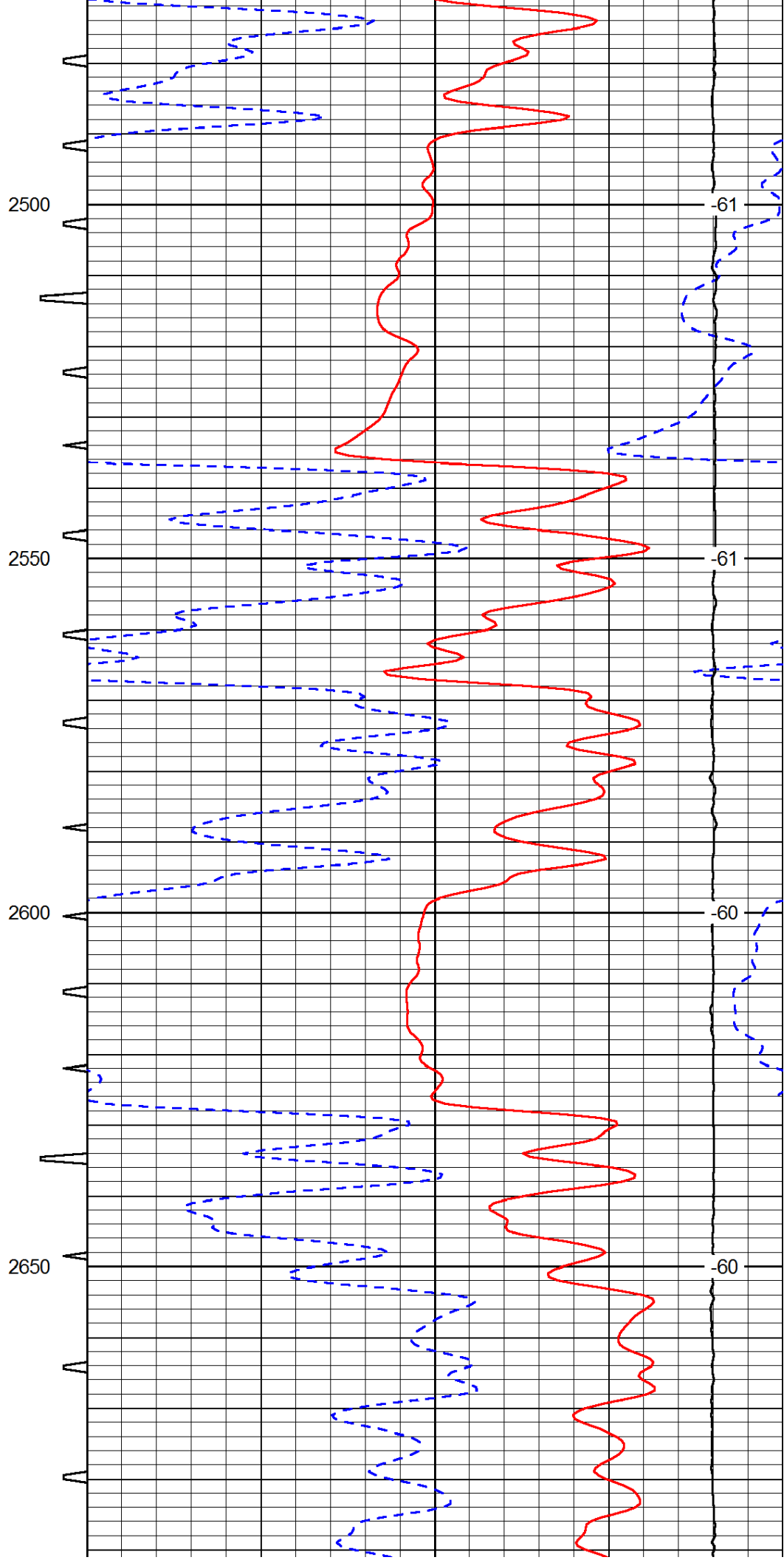
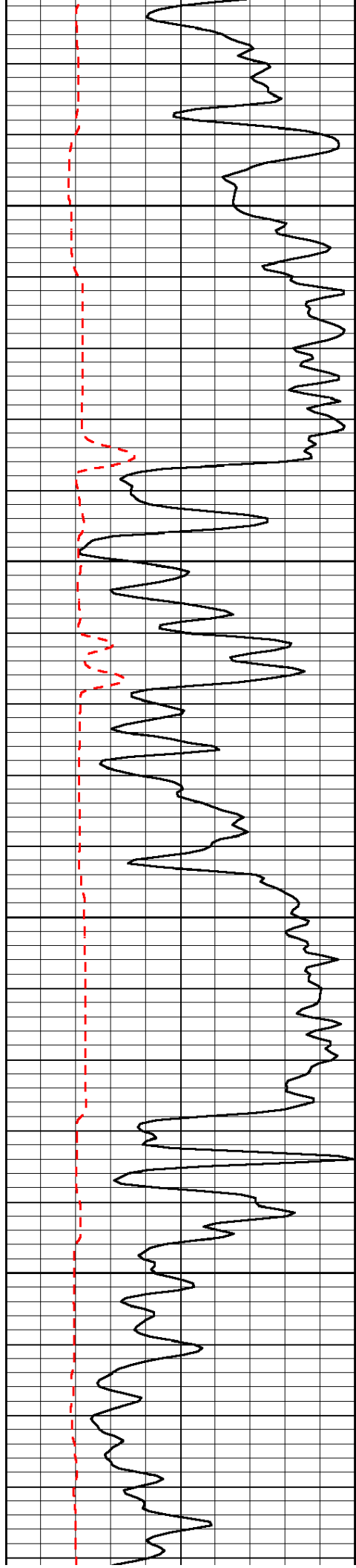


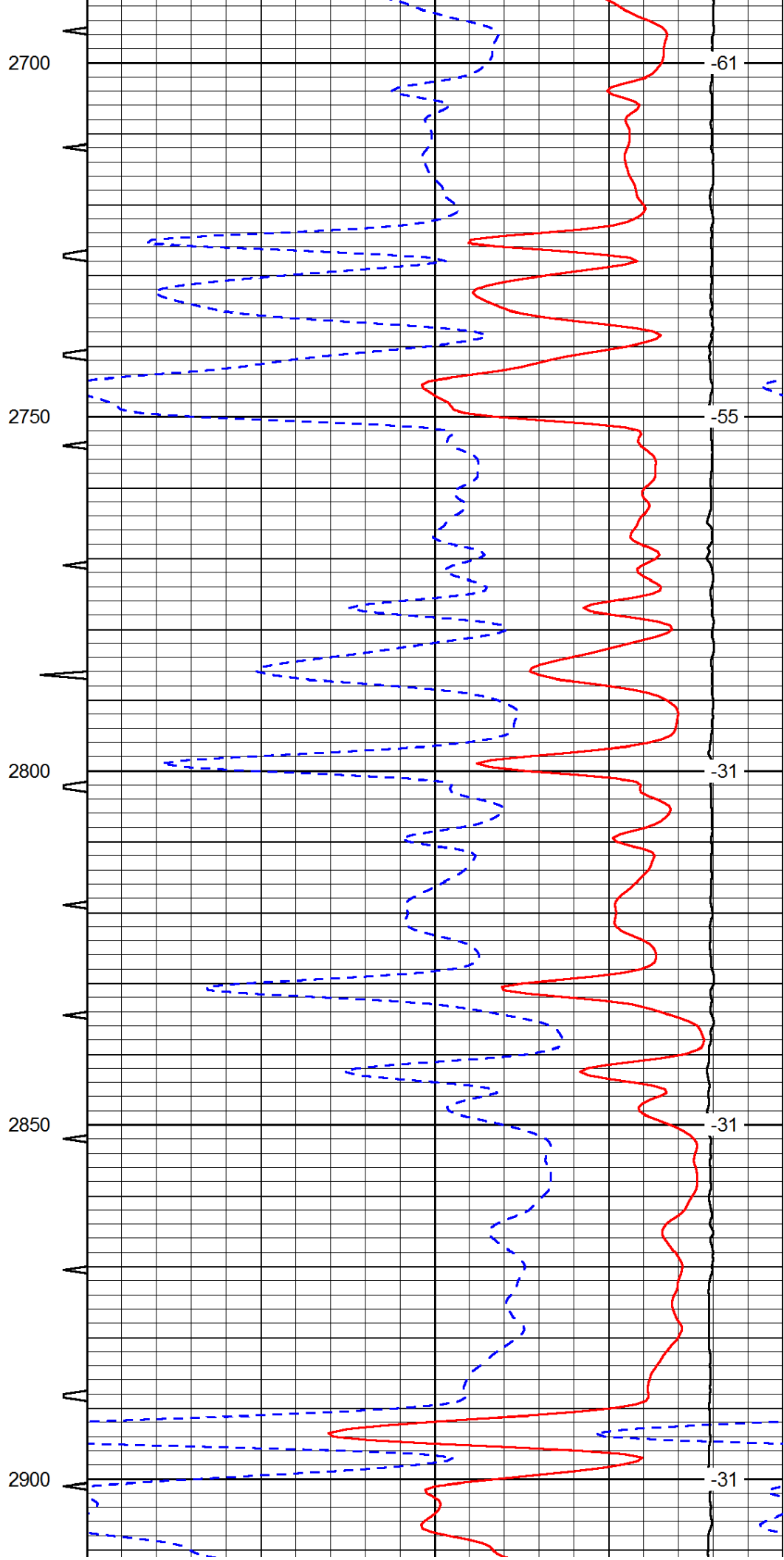
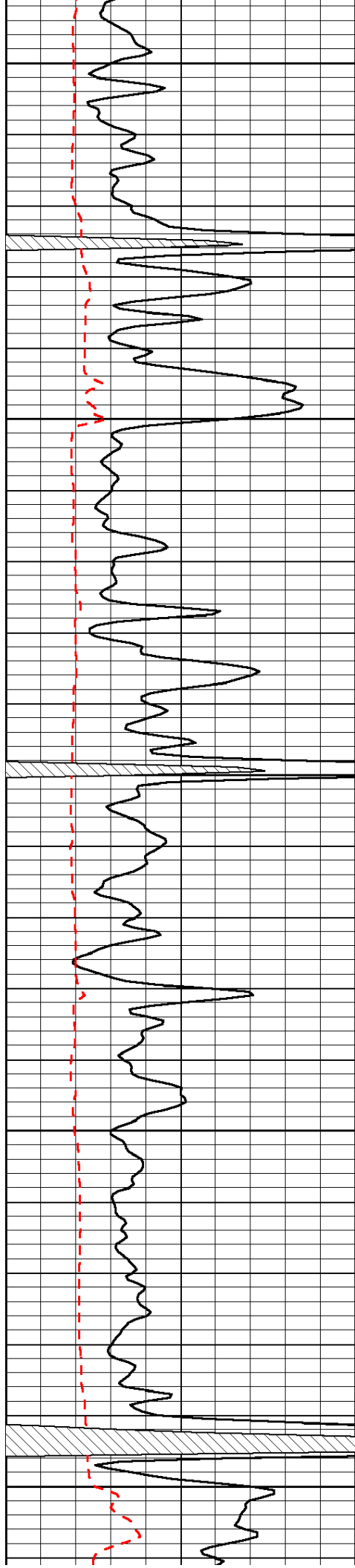


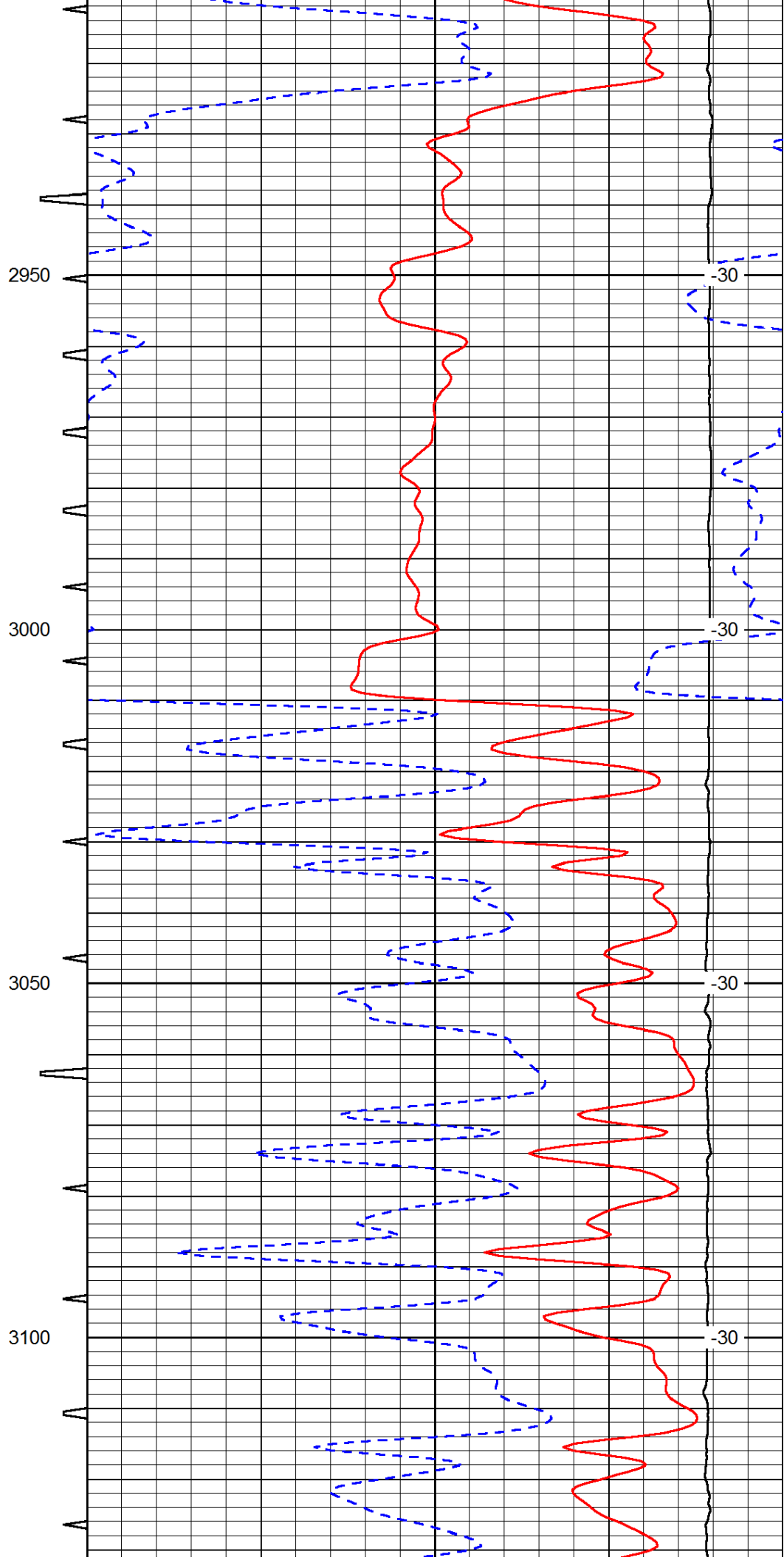
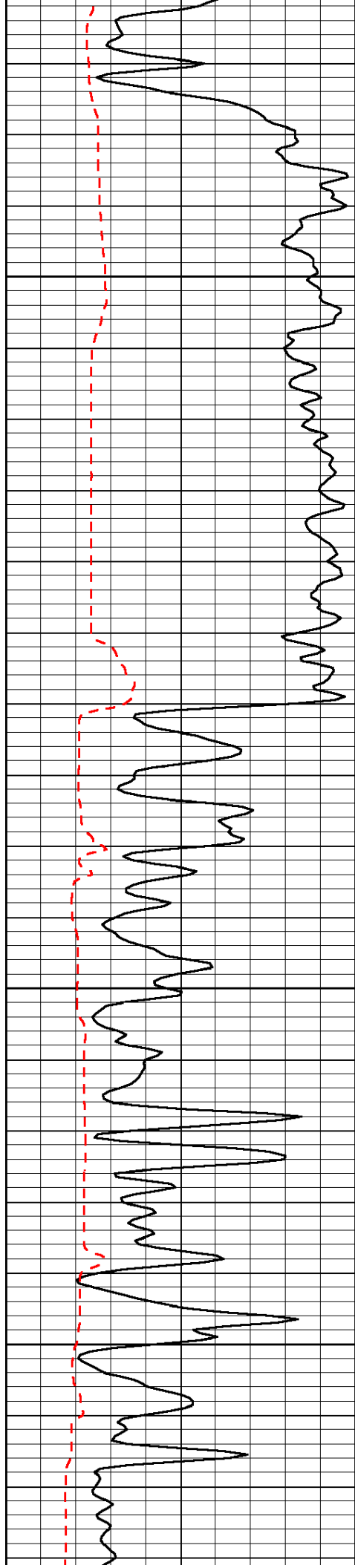


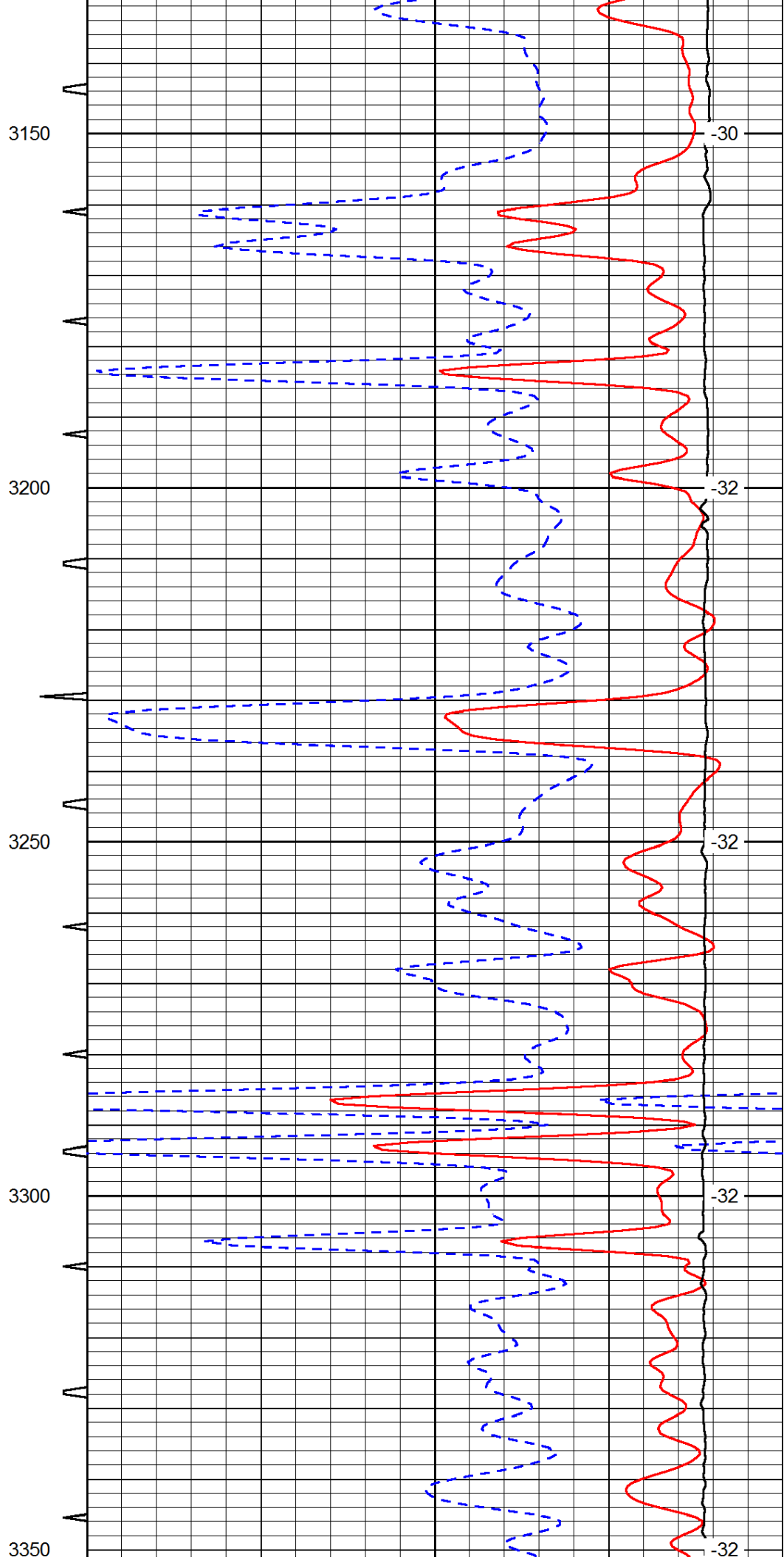
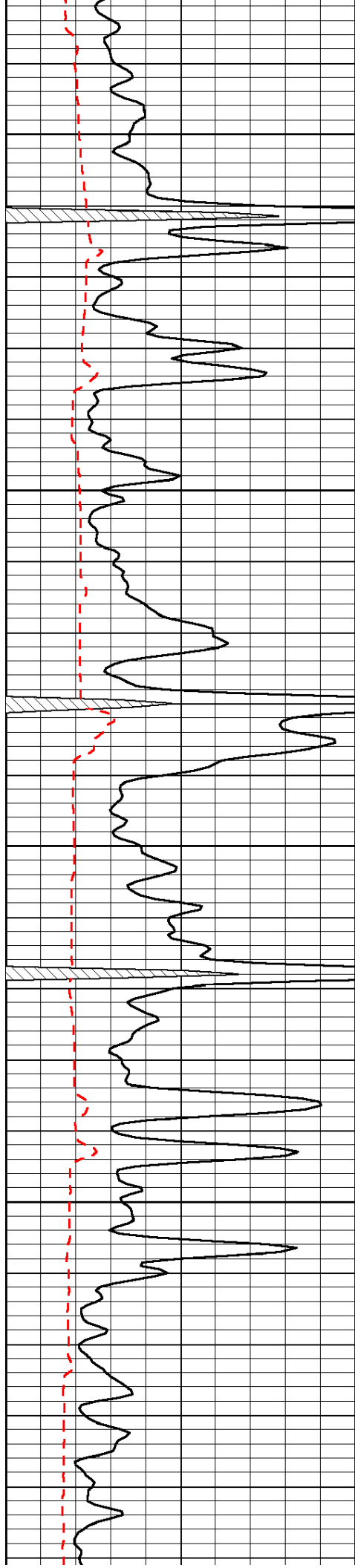


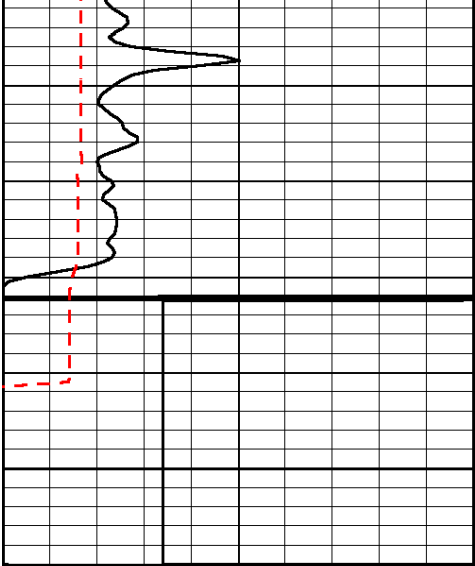








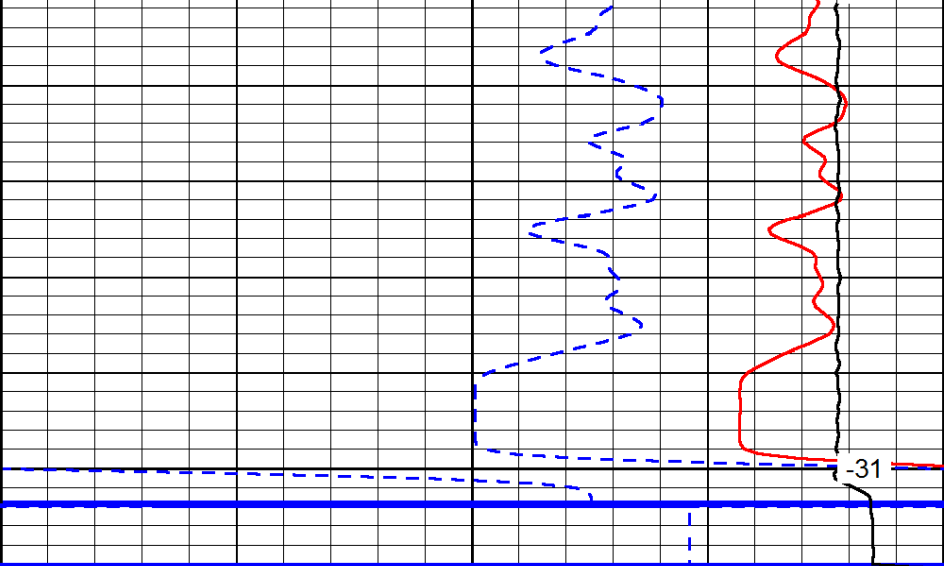




0	Gamma Ray	150
150	Gamma Ray	300
6	Caliper (GAPI)	16

3400

Sonic Int 140 40



140	Delta Time (usec/ft)	40
30	SPOR	-10
15000	LTEN (lb)	0

LSPD