



Pioneer Energy Services

Borehole Compensated Sonic Log

15-167-23,934-00-00

API No.

Company **RJM Company**

Well **Concept Commercial #1**

Field **Trapp**

County **Russell**

State **Kansas**

Location

1650' FNL & 330' FEL

Sec: **15**

Twp: **15S**

Rge: **13W**

Other Services
CNL/CDL
MEL/DIL

Permanent Datum

Ground Level

Elevation **1832**

Log Measured From

Kelly Bushing

8 Ft. Above Perm. Datum

Elevation
K.B. **1840**
D.F. **1832**
G.L. **1832**

Date

1/9/2014

Run Number

Two

Type Log

BHC Sonic

Depth Driller

3350

Depth Logger

3347

Bottom Logged Interval

3336

Top Logged Interval

350

Type Fluid In Hole

Chemical

Salinity, PPM CL

5000

Density

9.5

Level

Full

Max. Rec. Temp. F

110

Operating Rig Time

4 1/2 Hours

Equipment -- Location

15 Hays

Recorded By

D Kerr

Witnessed By

Clint Musgrove

Borehole Record

Casing Record

Run No.

Bit

From

To

Size

Wgt.

From

To

1

12.25

00

404

8.625

24#

00

404

2

7.875

404

3350

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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.

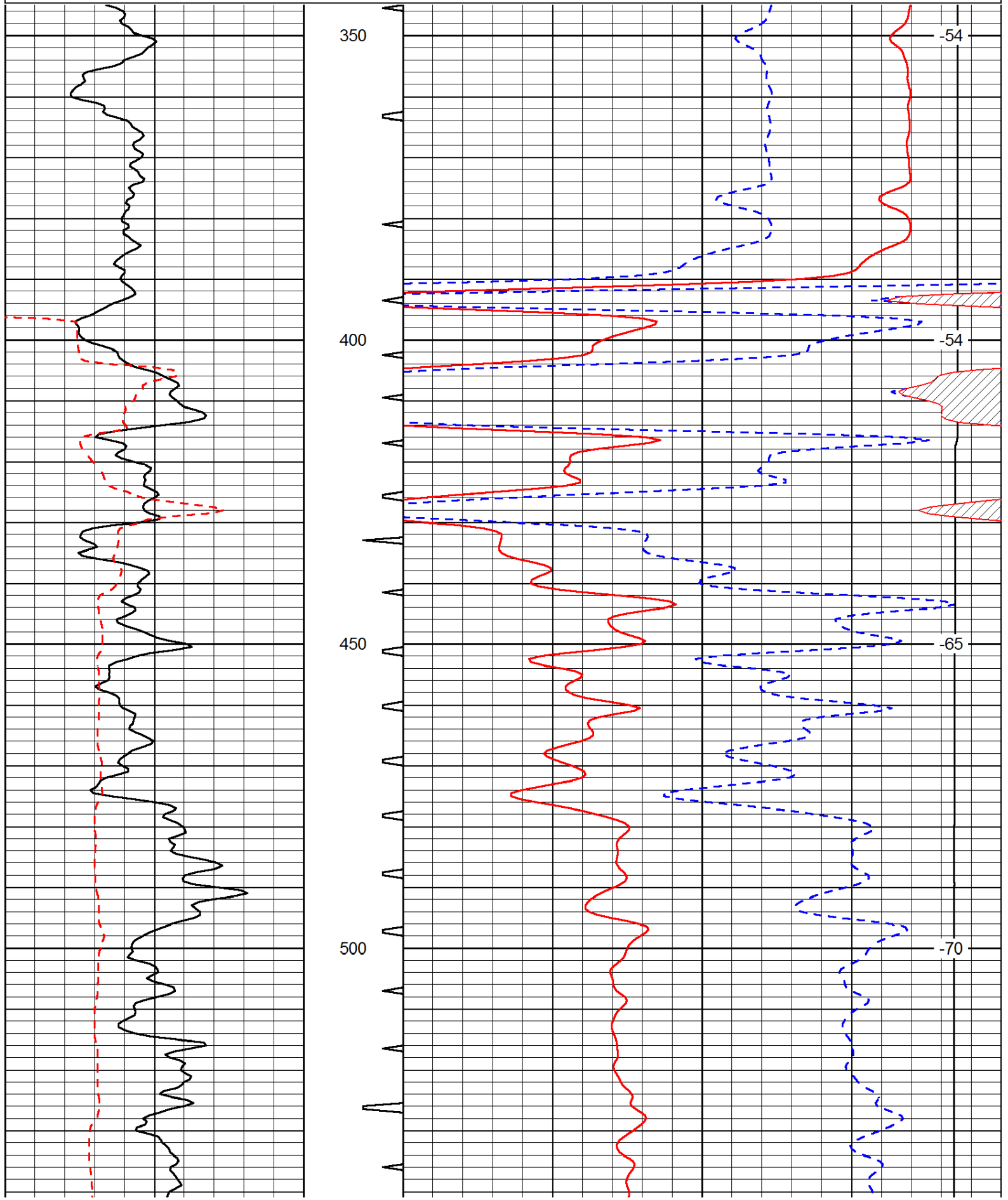
Comments

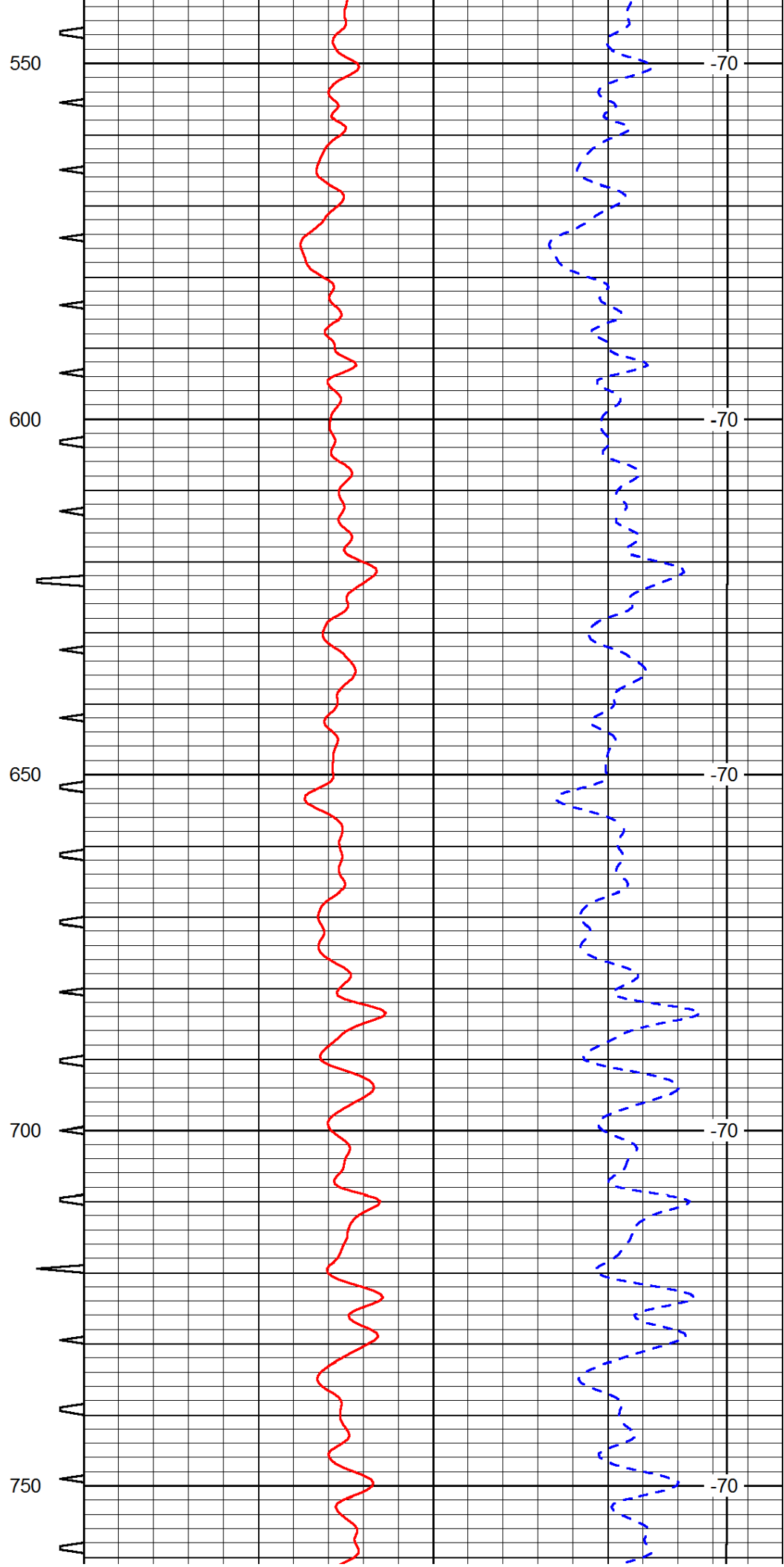
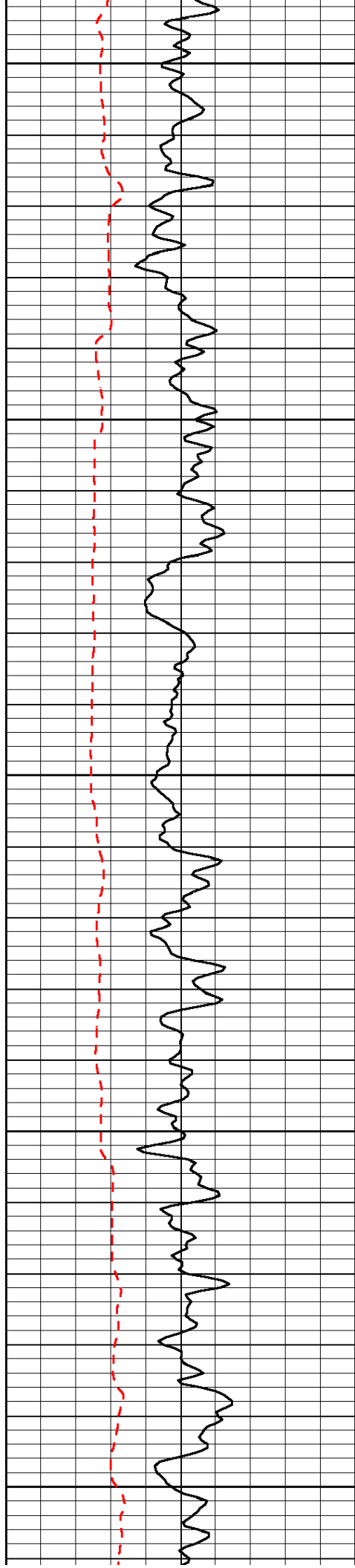
Thank you for using Pioneer Energy Services
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785 625 3858

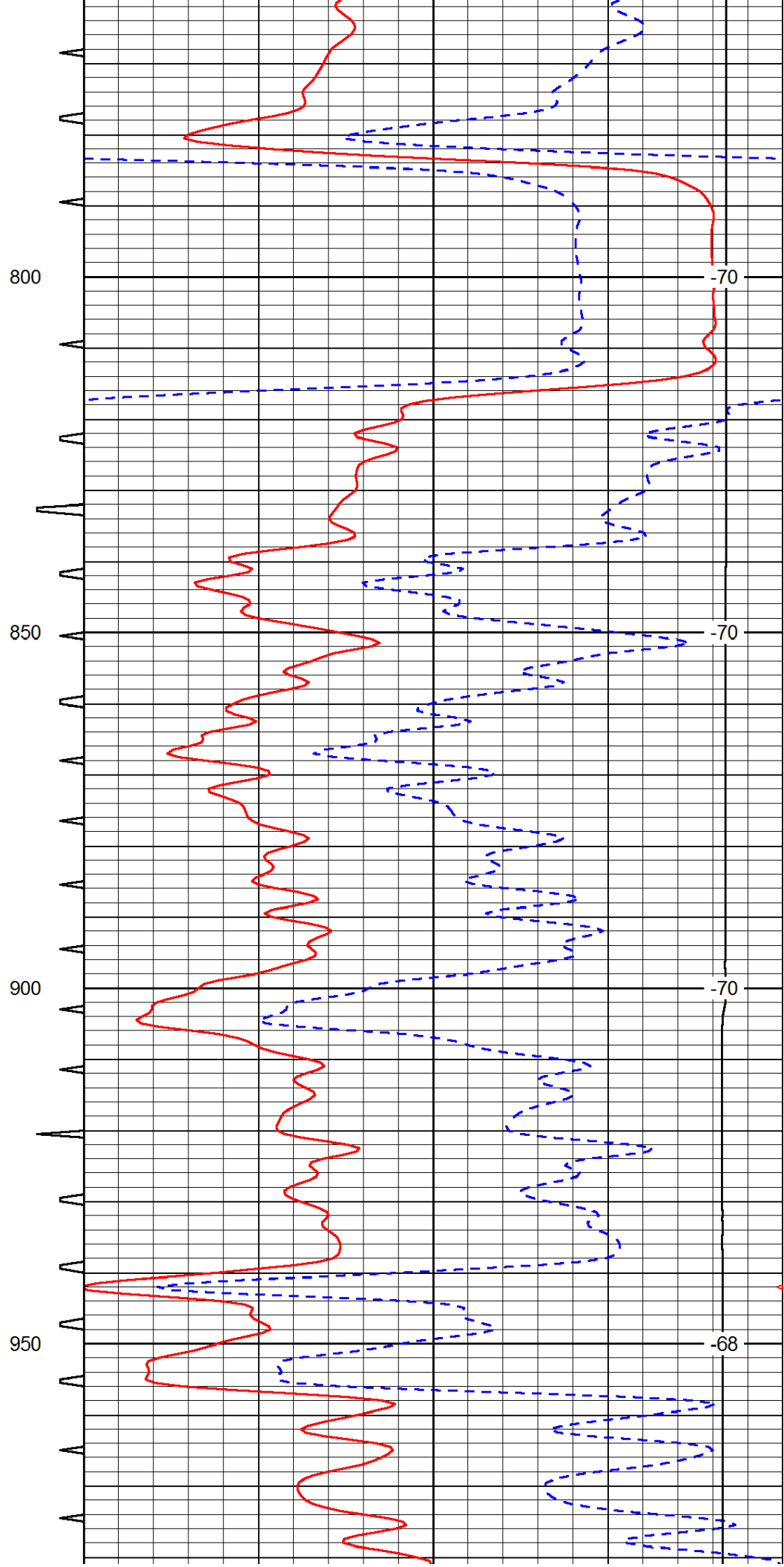
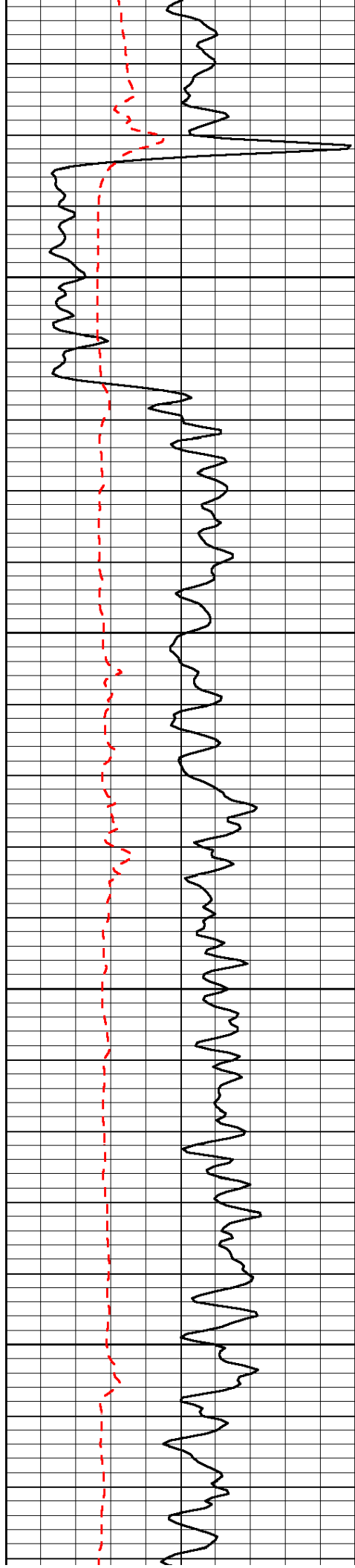
Russell KS, 8 South to Winterset RD,
5 1/2 East, 1/2 North, West Into

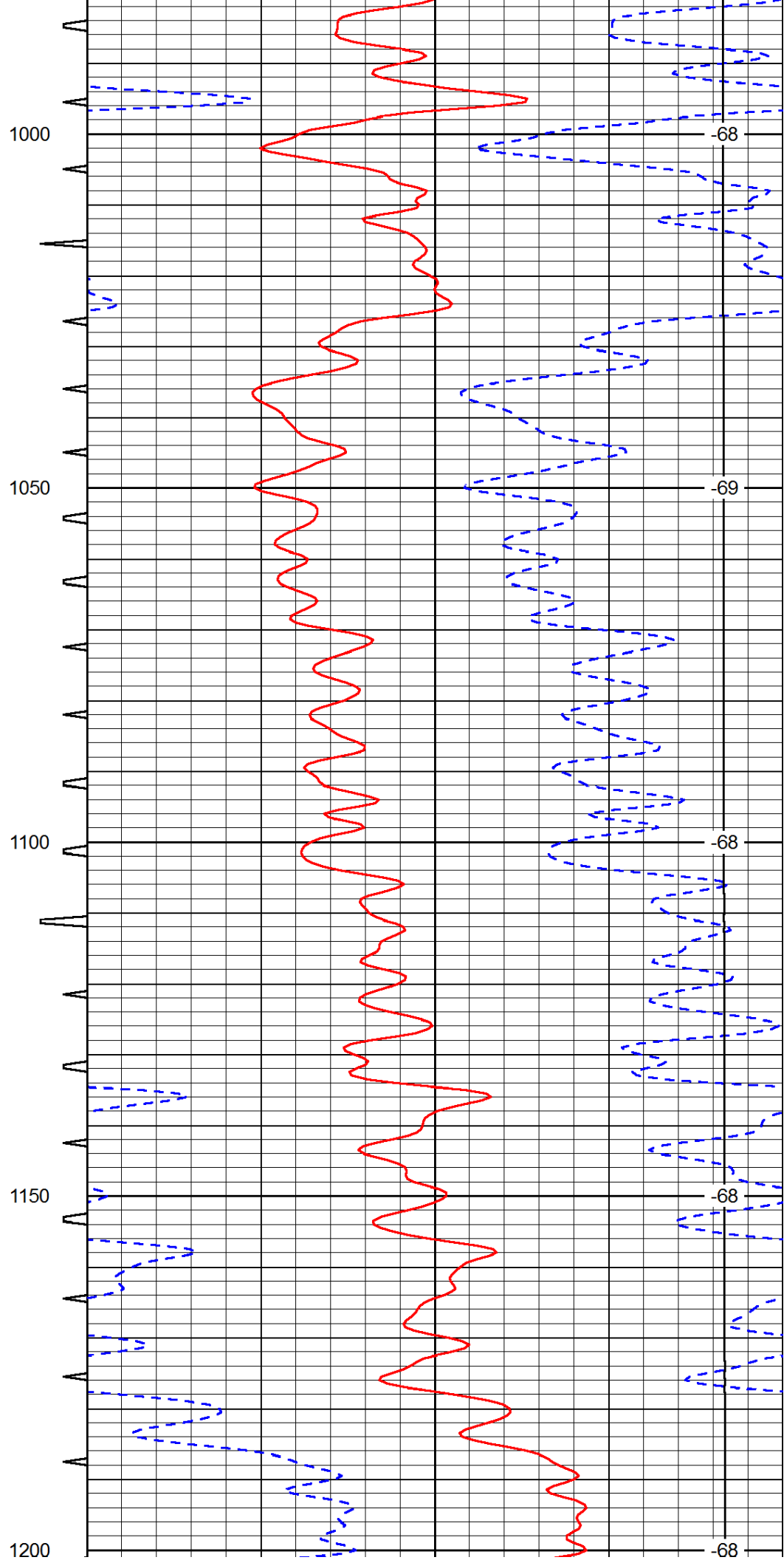
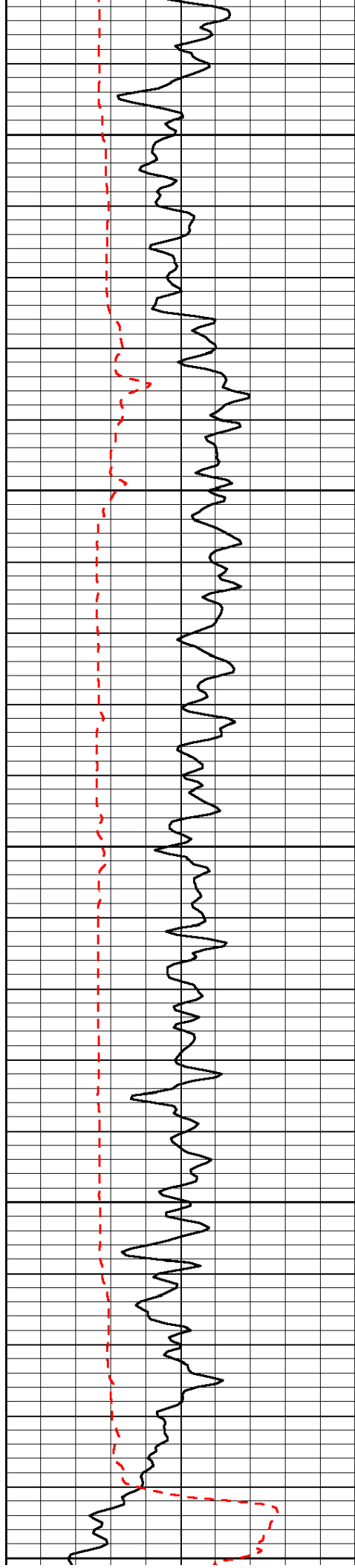
Database File: c:\warrior\data\rjm_concept commercial #1\rjm_conceptcommercial_1hd.db
Dataset Pathname: DIL\rjmstk
Presentation Format: sonic
Dataset Creation: Thu Jan 09 20:09:10 2014
Charted by: Depth in Feet scaled 1:240

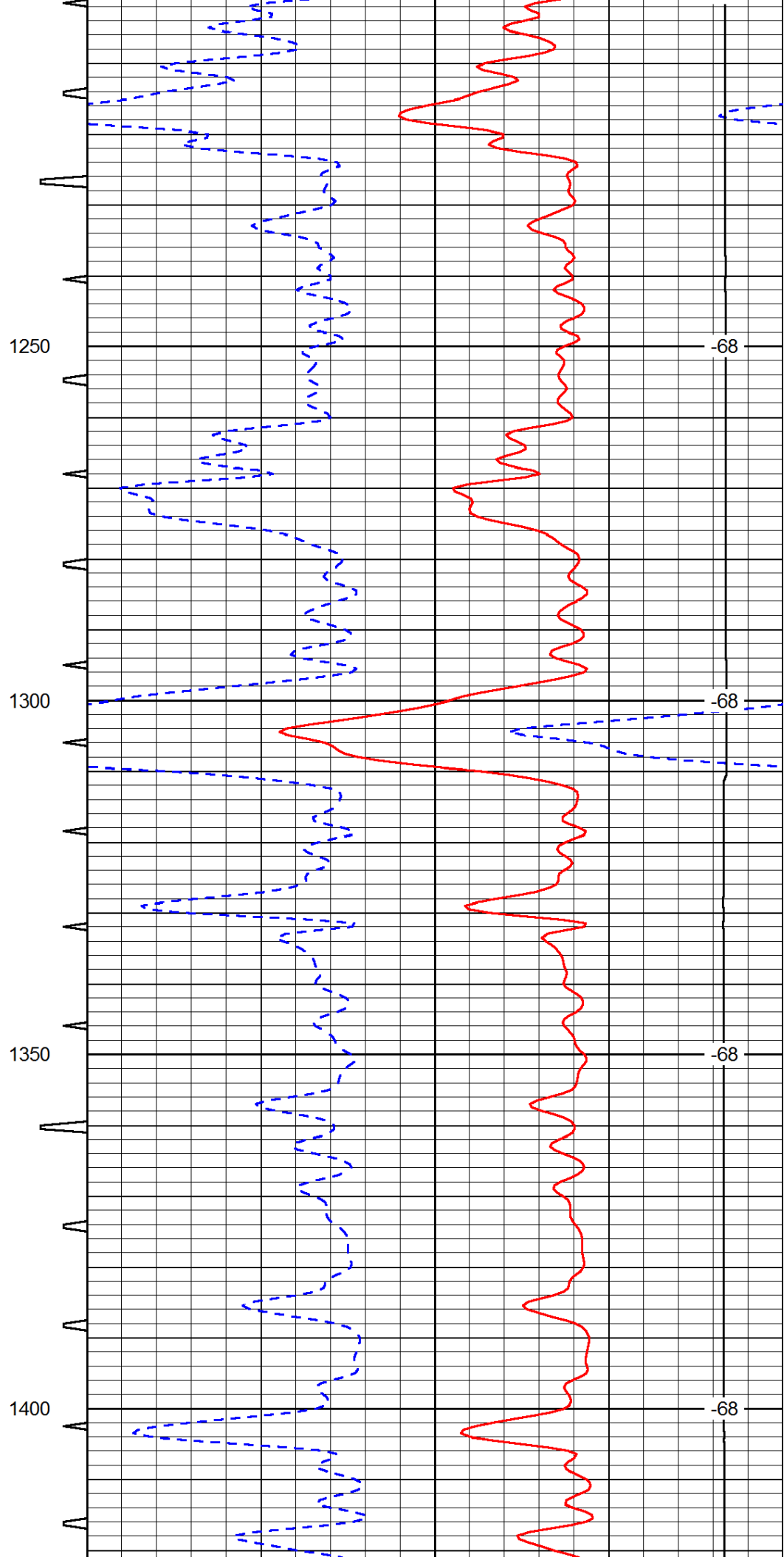
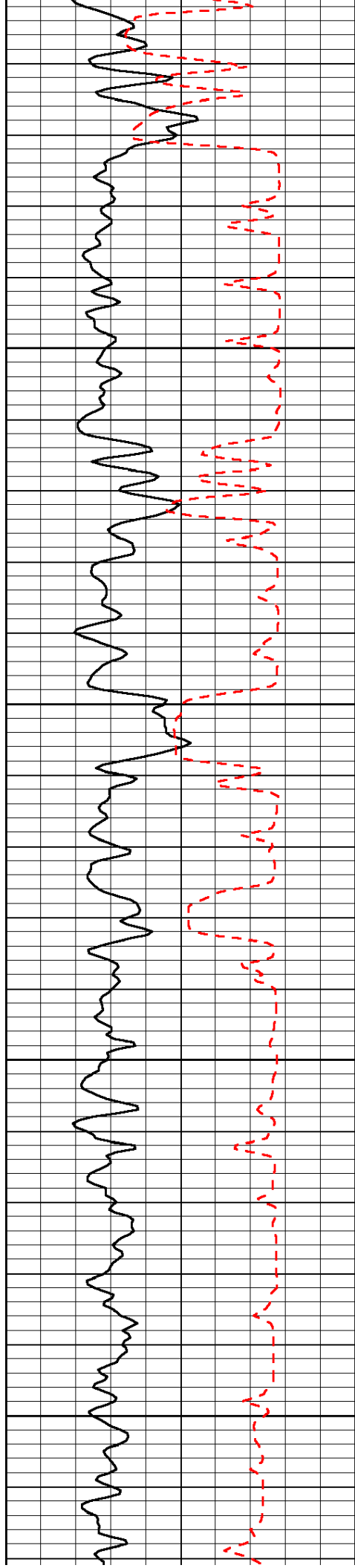
Charted by:		Depth in Feet scaled 1:2.10					
0	Gamma Ray	150	5	0	140	Delta Time (usec/ft)	40
150	Gamma Ray	300			30	SPOR	-10
6	Caliper (GAPI)	16			15000	LTEN (lb)	0
							LSPD

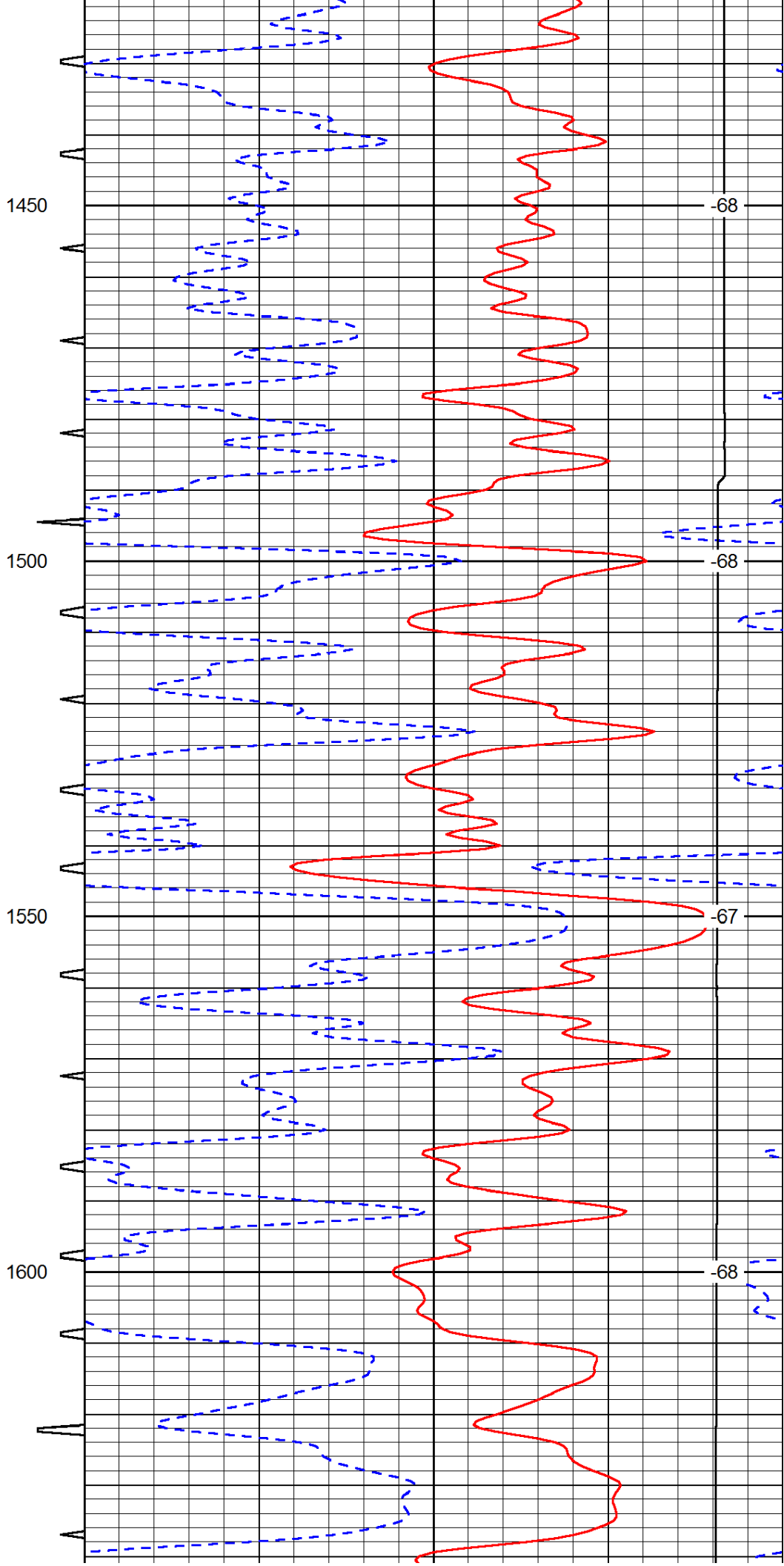
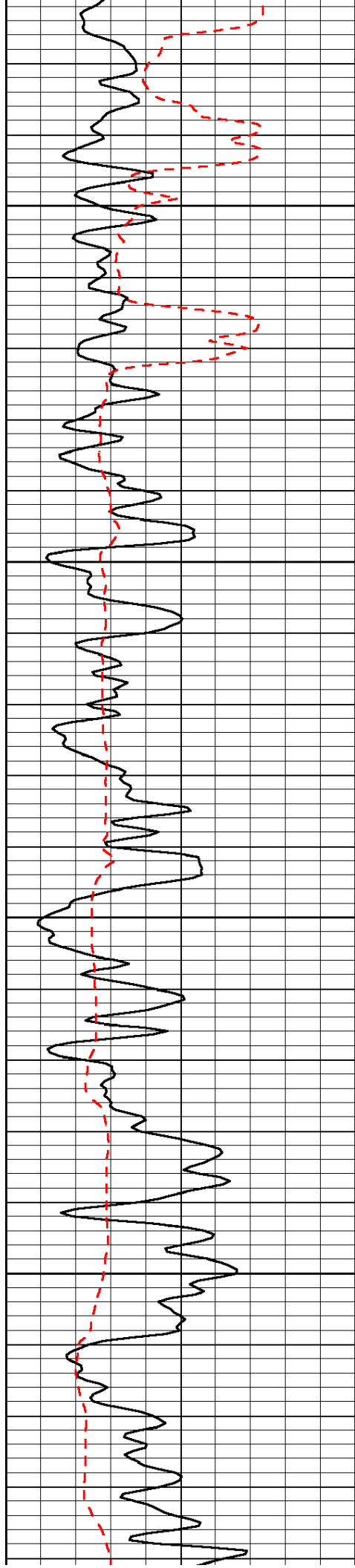


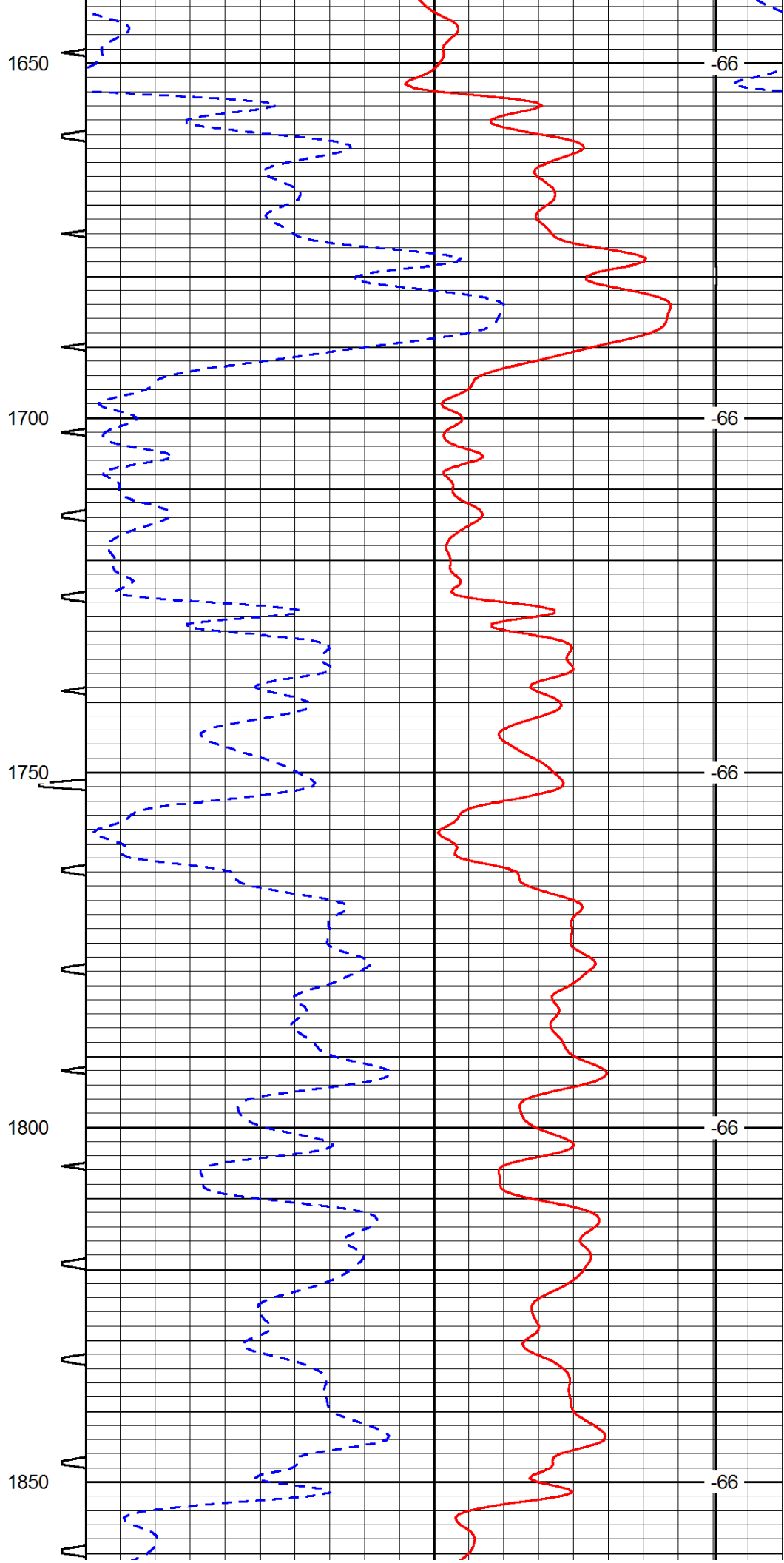
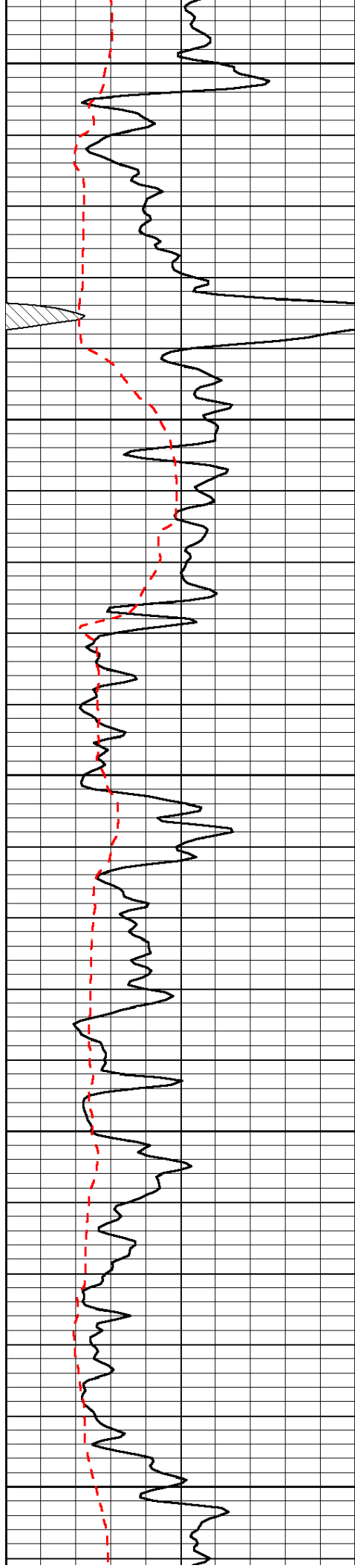


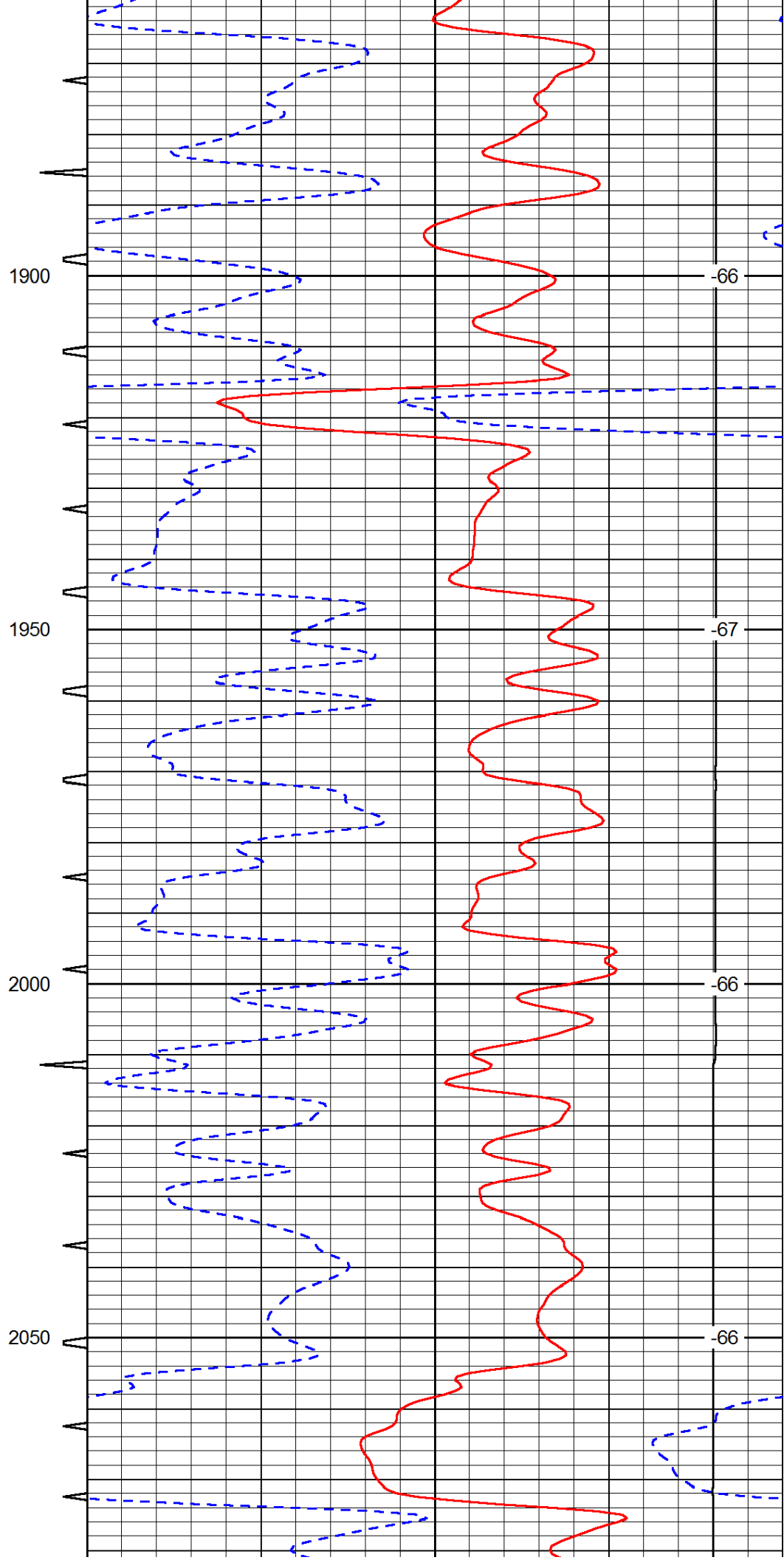
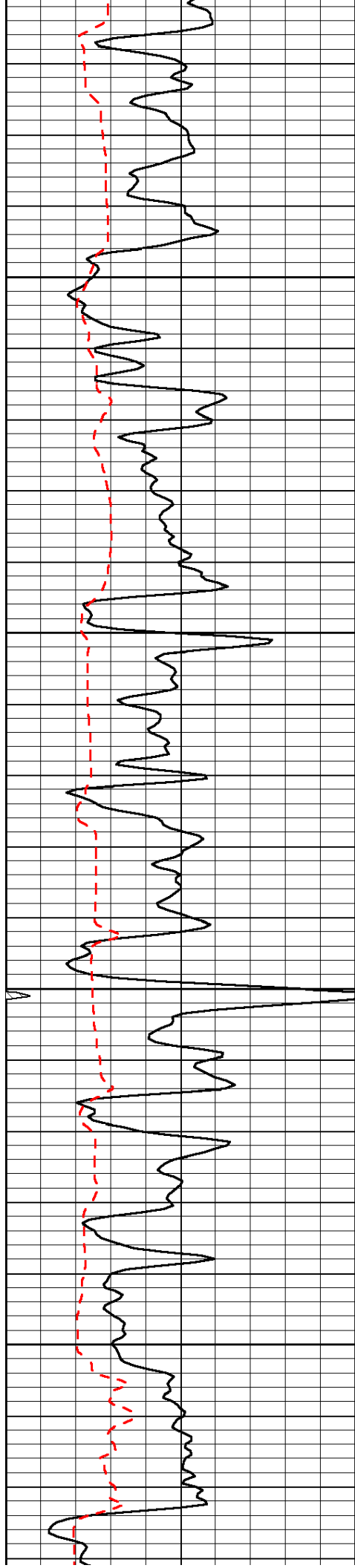


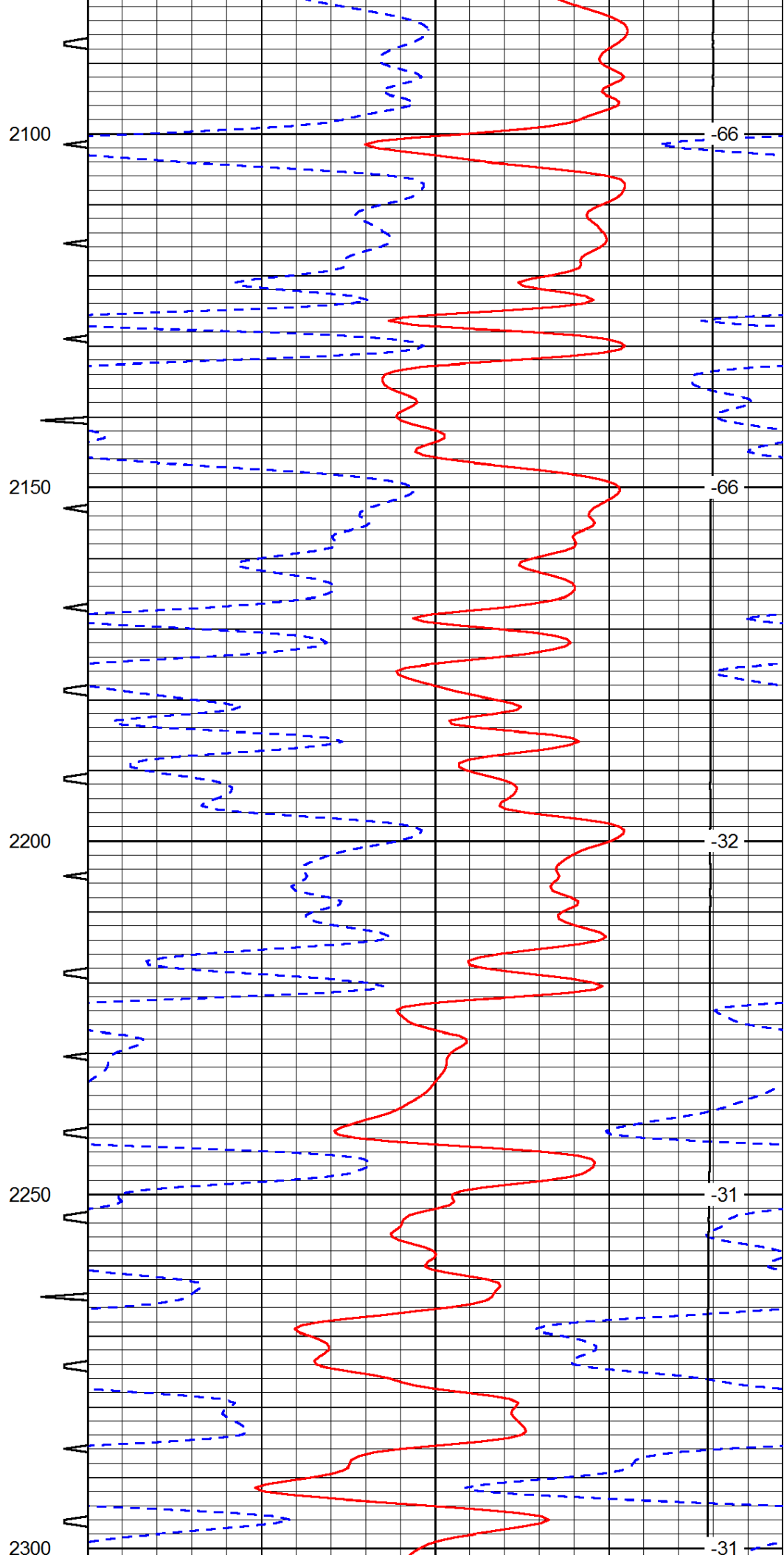
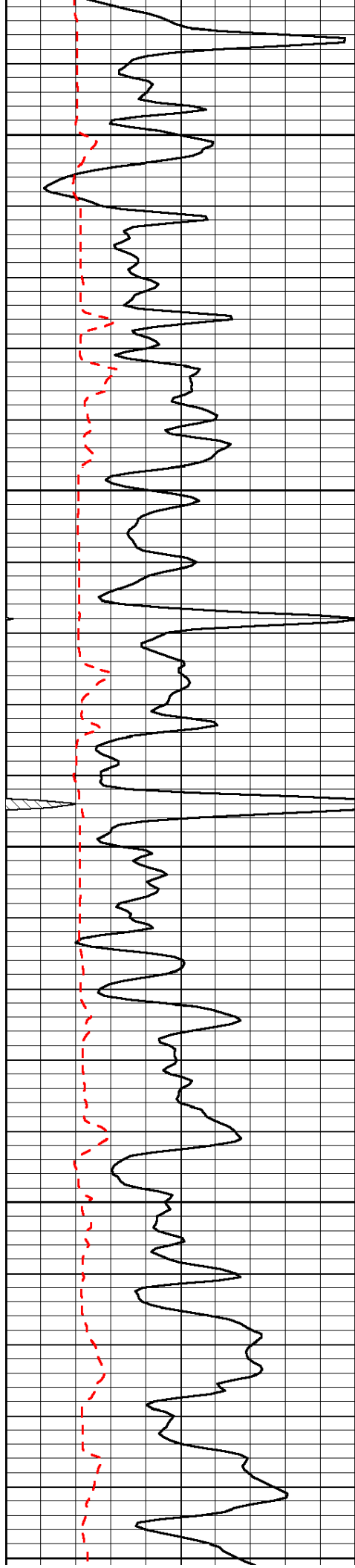


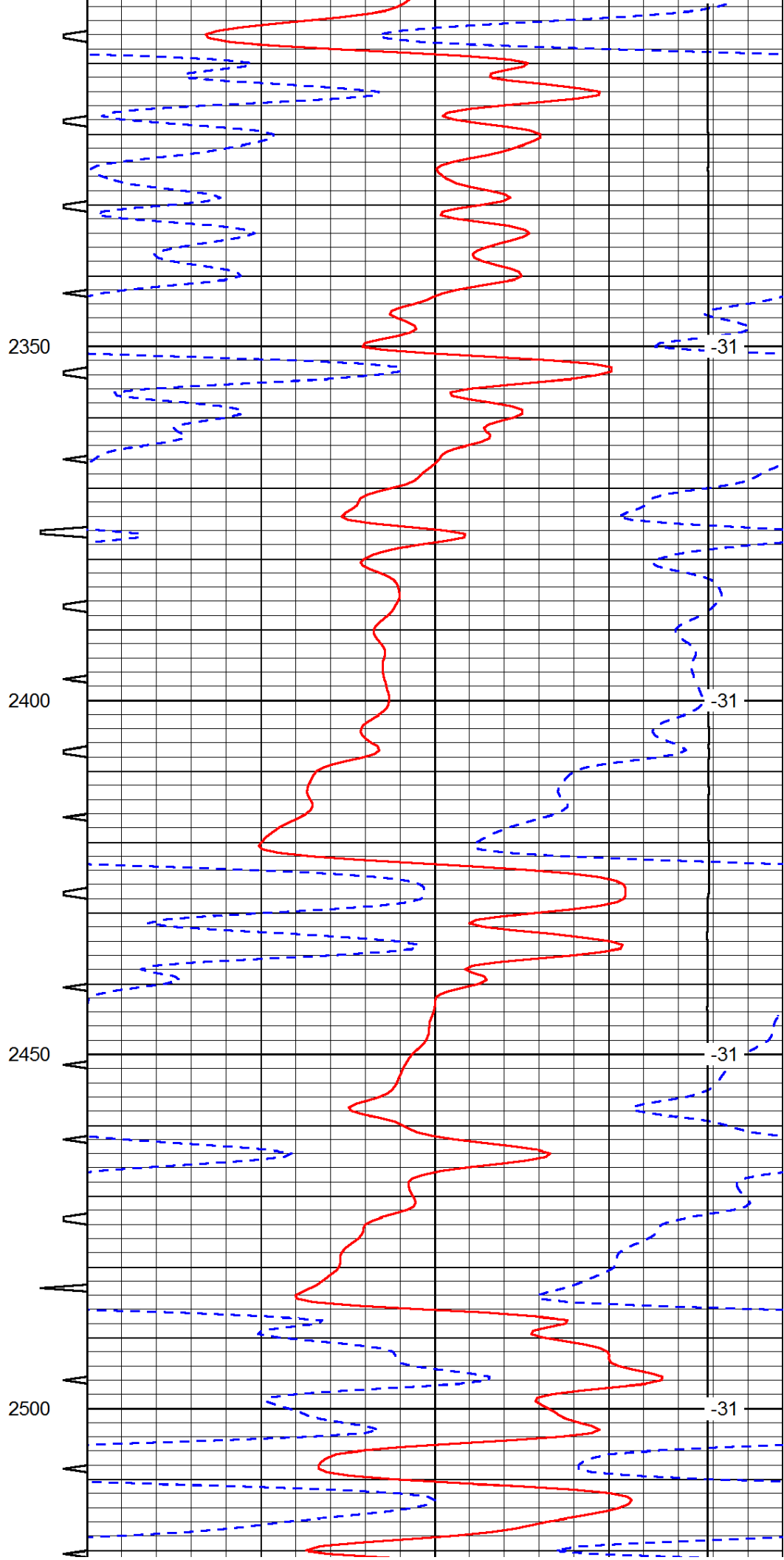
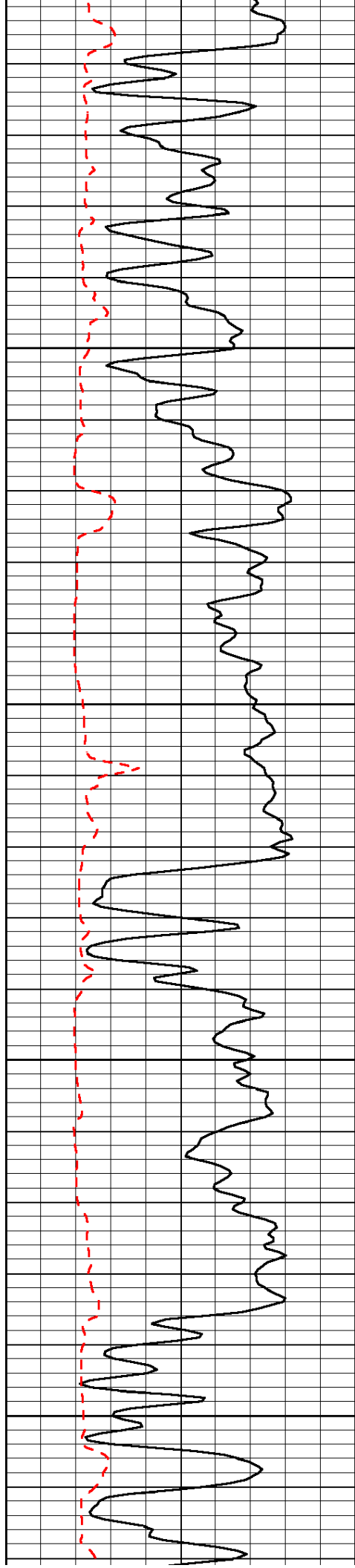


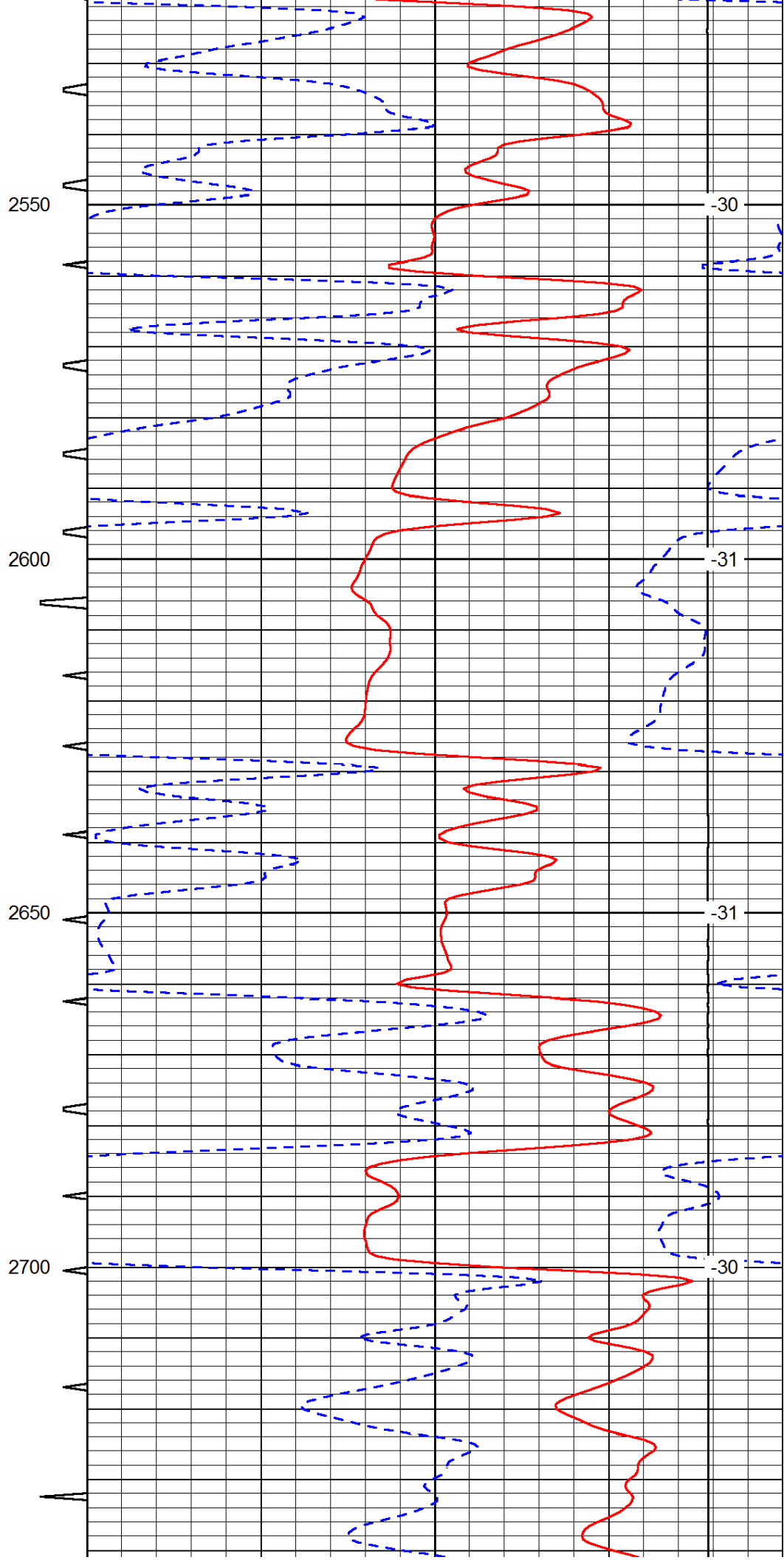
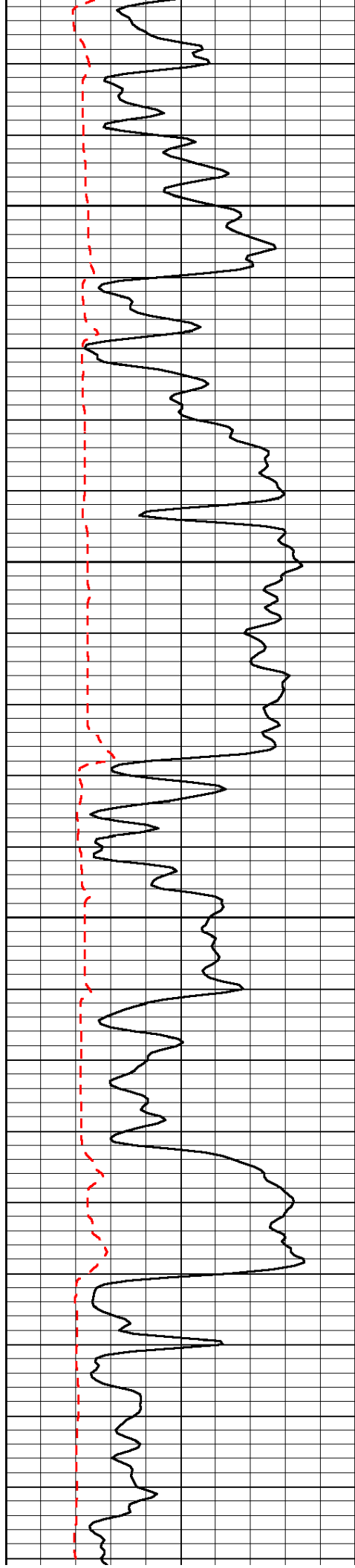


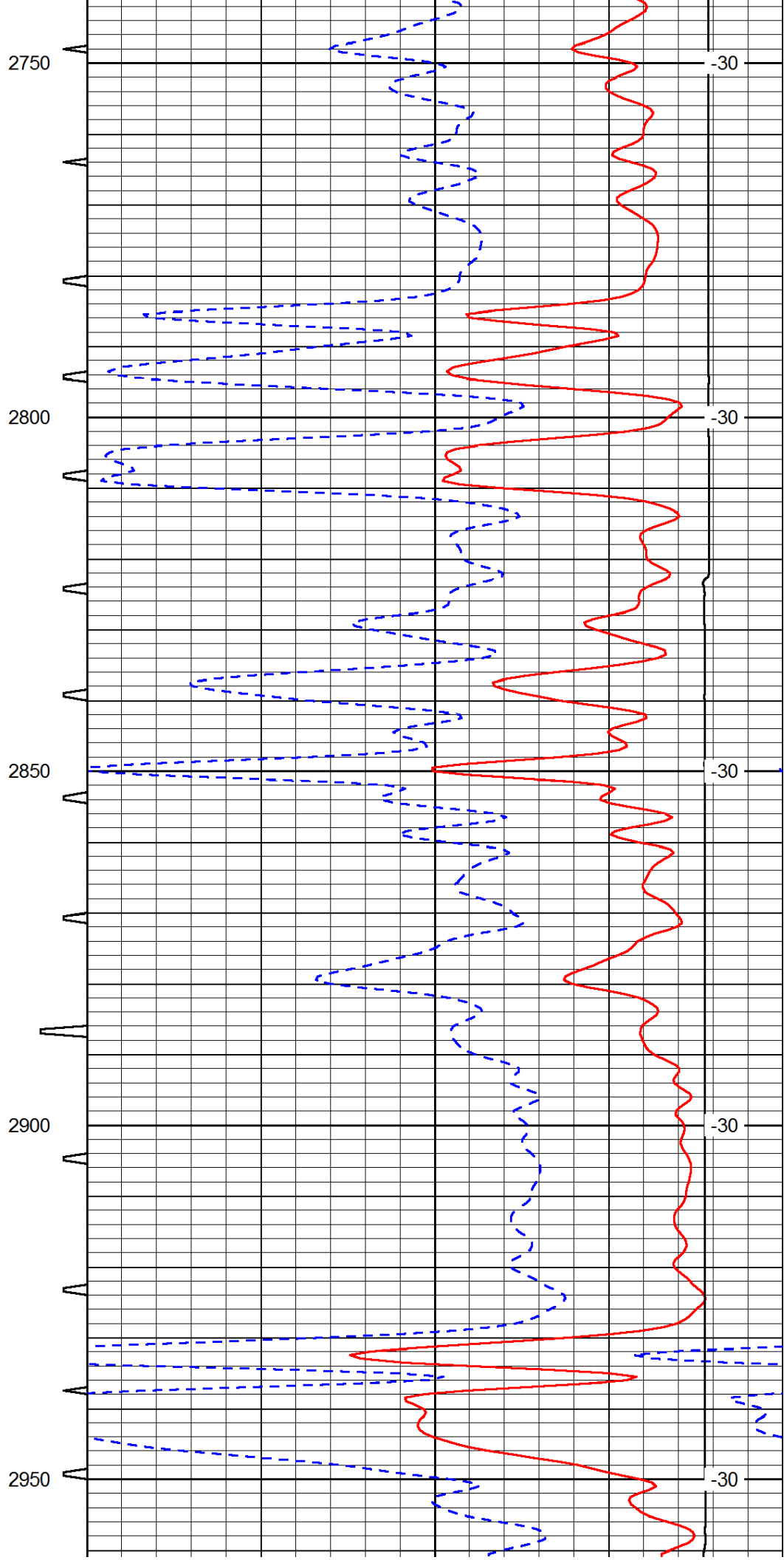
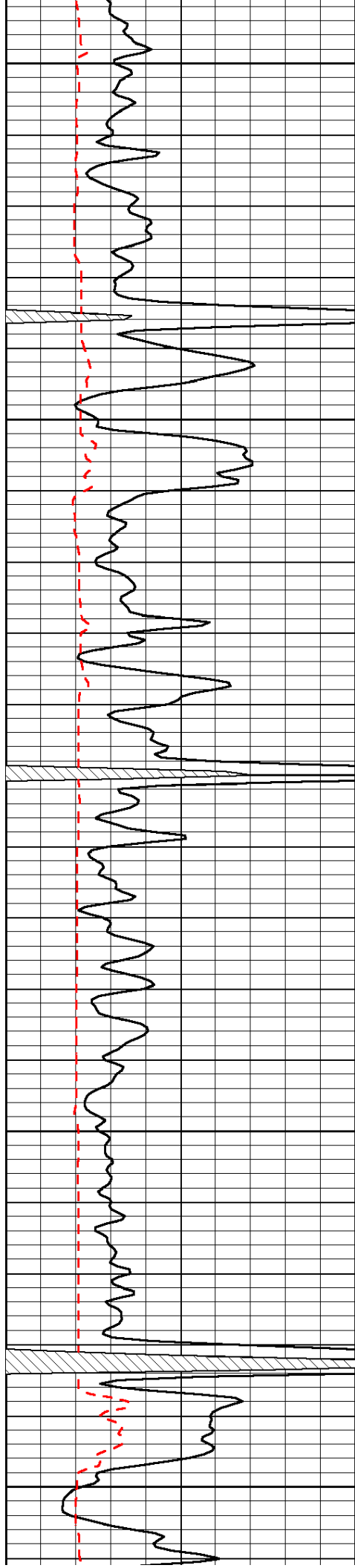


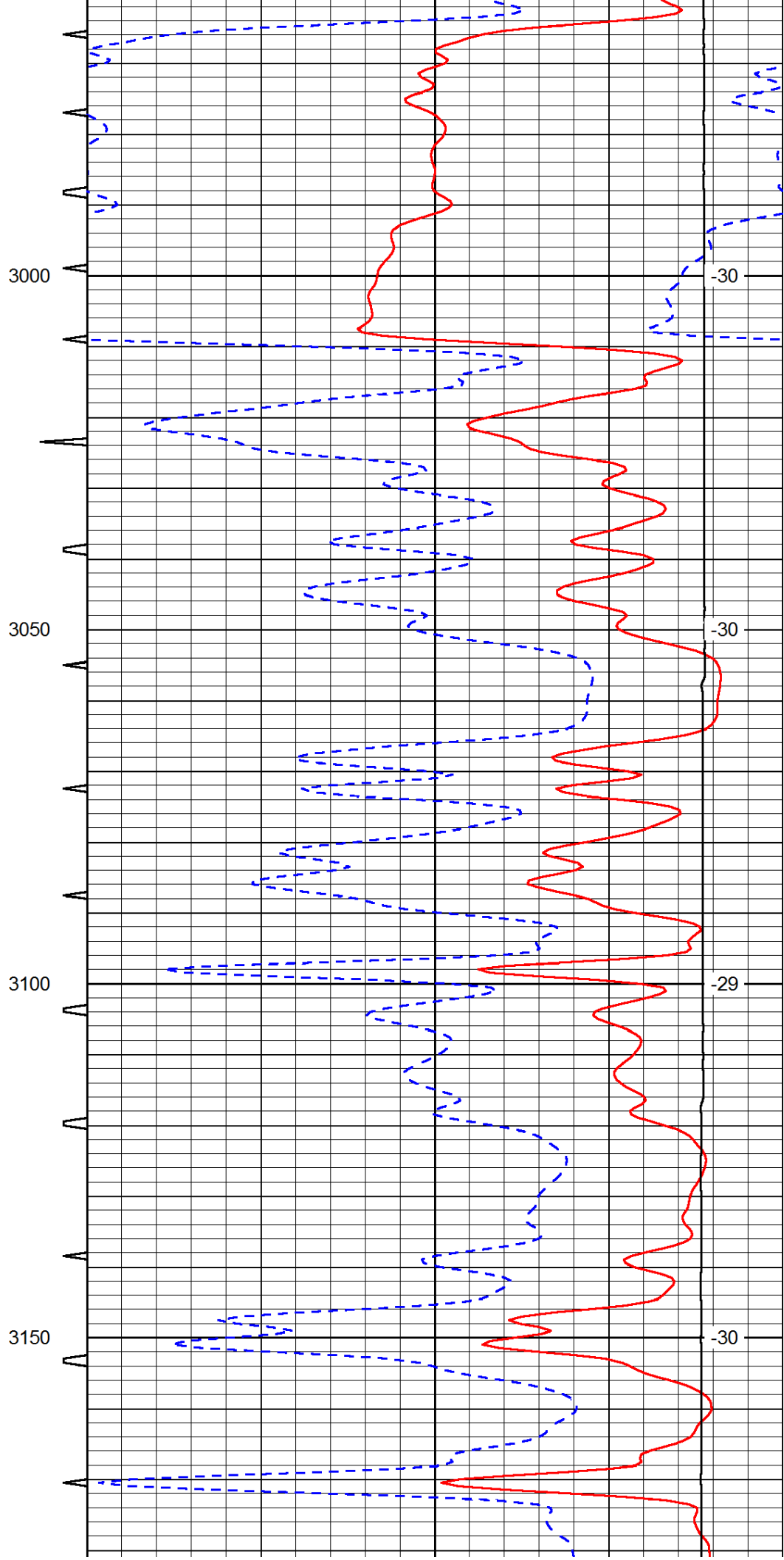
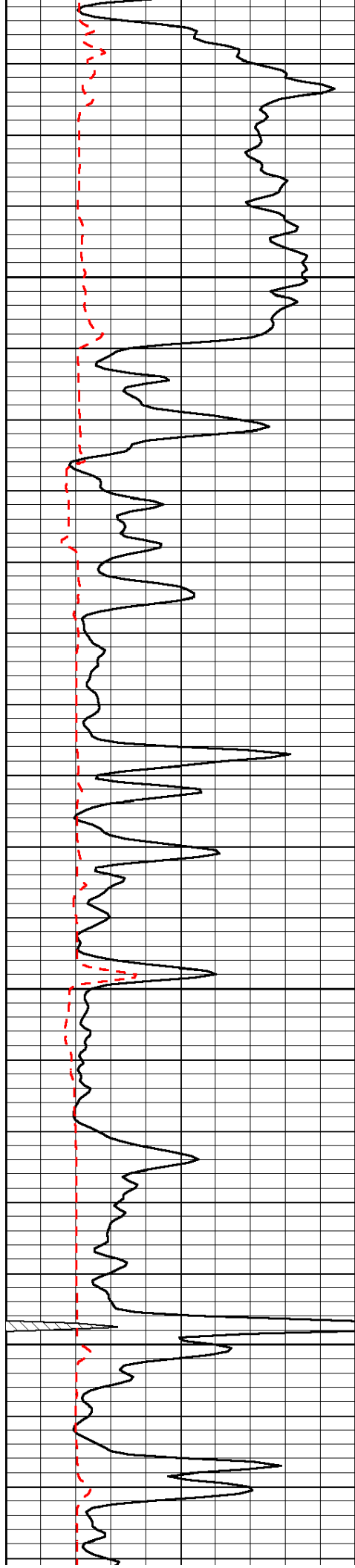


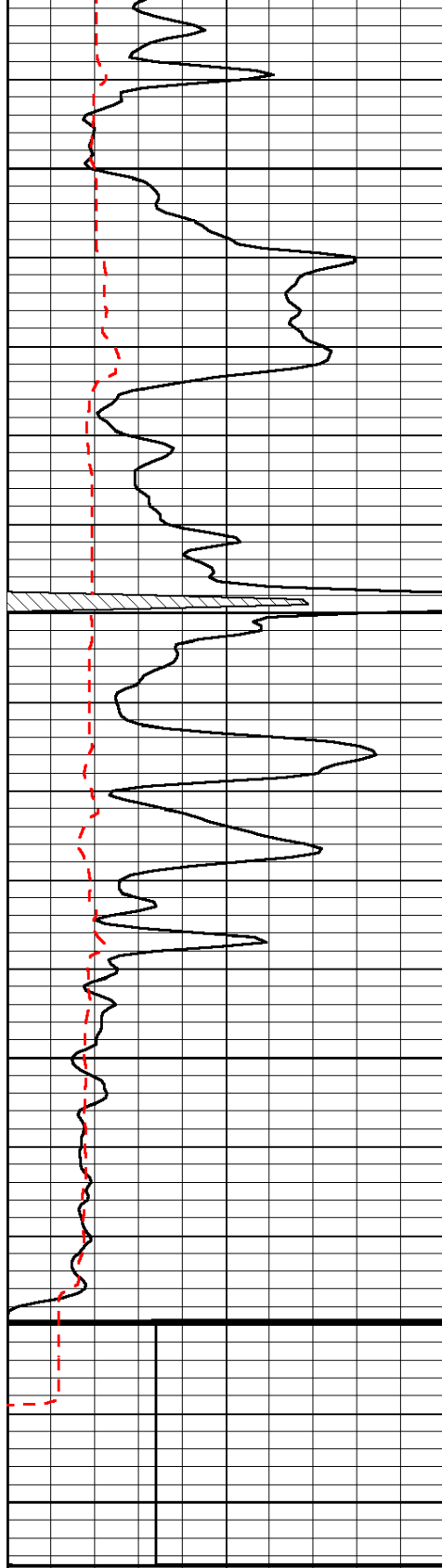




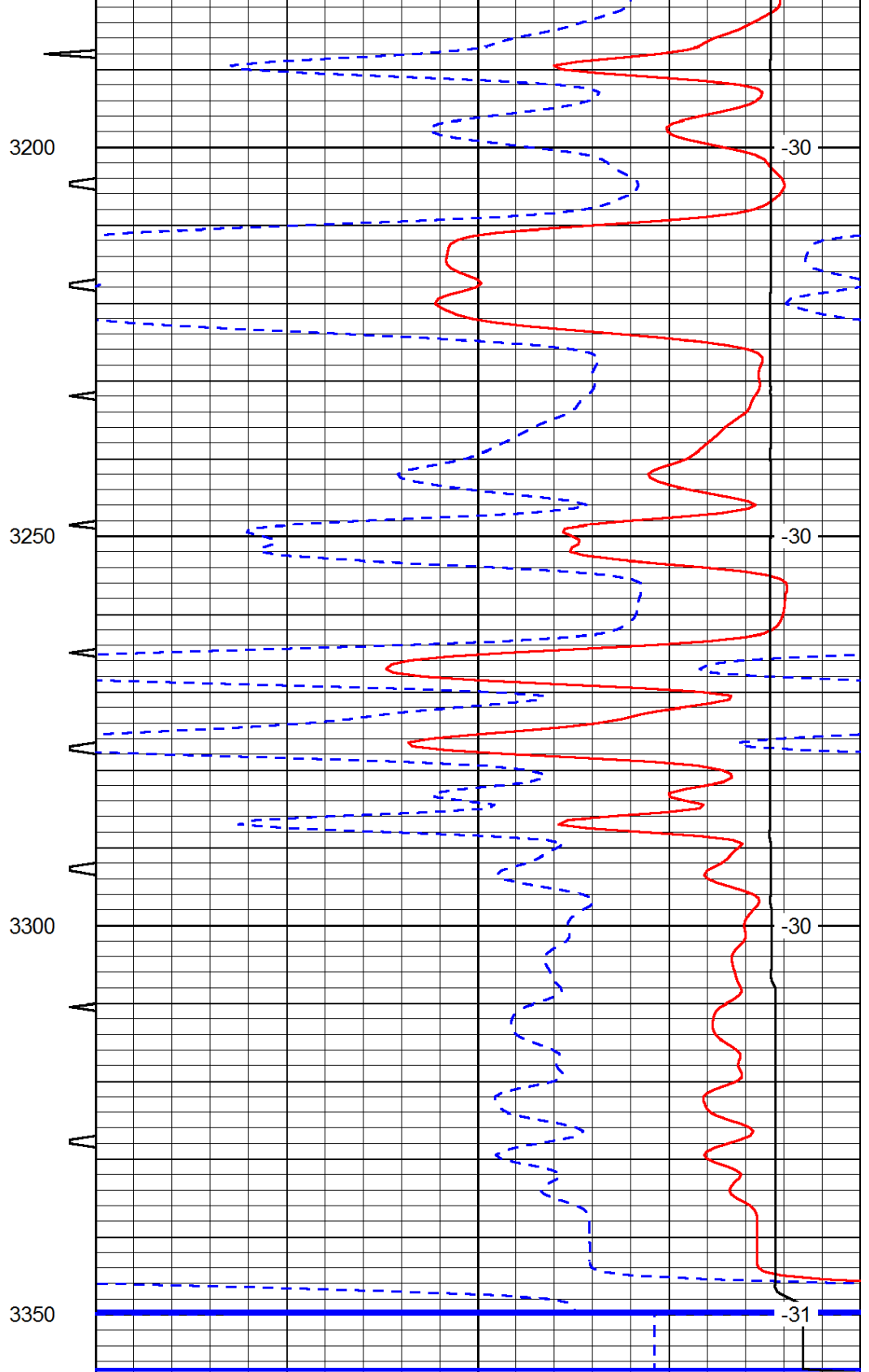








0	Gamma Ray	150
150	Gamma Ray	300
6	Caliper (GAPI)	16



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

LSPD