



Borehole Compensated Sonic Log

Pioneer Energy Services

API No.

15-153-20,980-00-00

Company **Murfin Drilling Company, Inc.**

Well **Mary Ann No.7-1**

Field **Scoda**

County **Rawlins**

State **Kansas**

Location

1470' FNL & 1520' FWL

Other Services
CNL/CDL
MEL/DIL

Sec: 1

Twp: 1S

Rge: 36W

Elevation

Permanent Datum Ground Level Elevation 3139
Log Measured From Kelly Bushing 11 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Date 1/27/2014

Run Number Two

Type Log BHC Sonic

Depth Driller 4520

Depth Logger 4521

Bottom Logged Interval 4510

Top Logged Interval 200

Type Fluid In Hole Chemical

Salinity, PPM CL 1,000

Density 9.3

Level Full

Max. Rec. Temp. F 121

Operating Rig Time 5 Hours

Equipment -- Location 17 Days

Recorded By C. Desaire

Witnessed By Wes Hansen

Borehole Record

Casing Record

Run No. Bit From To Size Wgt. From To

One 12.25 00 221 8.625 23# 00 221

Two 7.875 221 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.

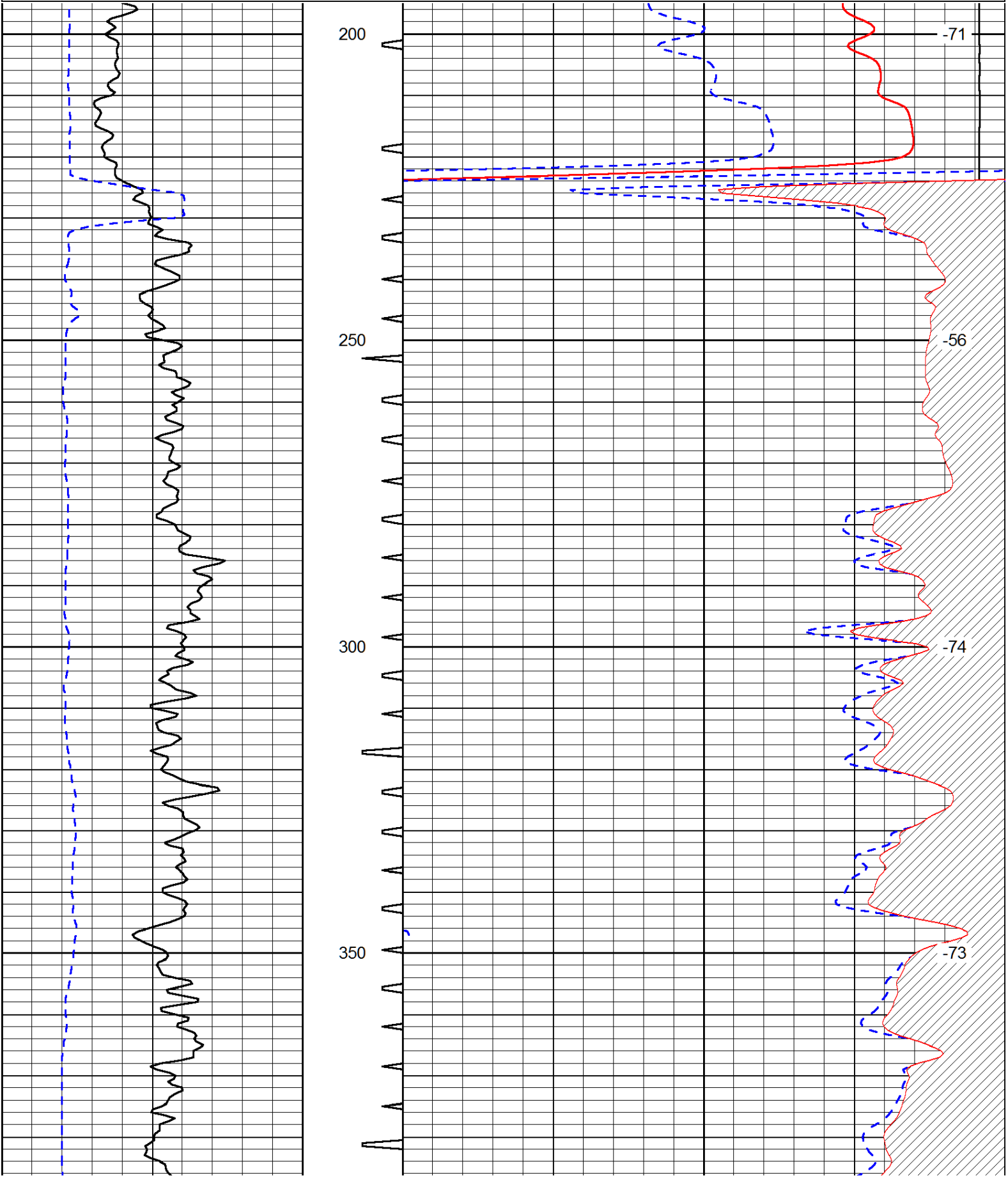
Comments

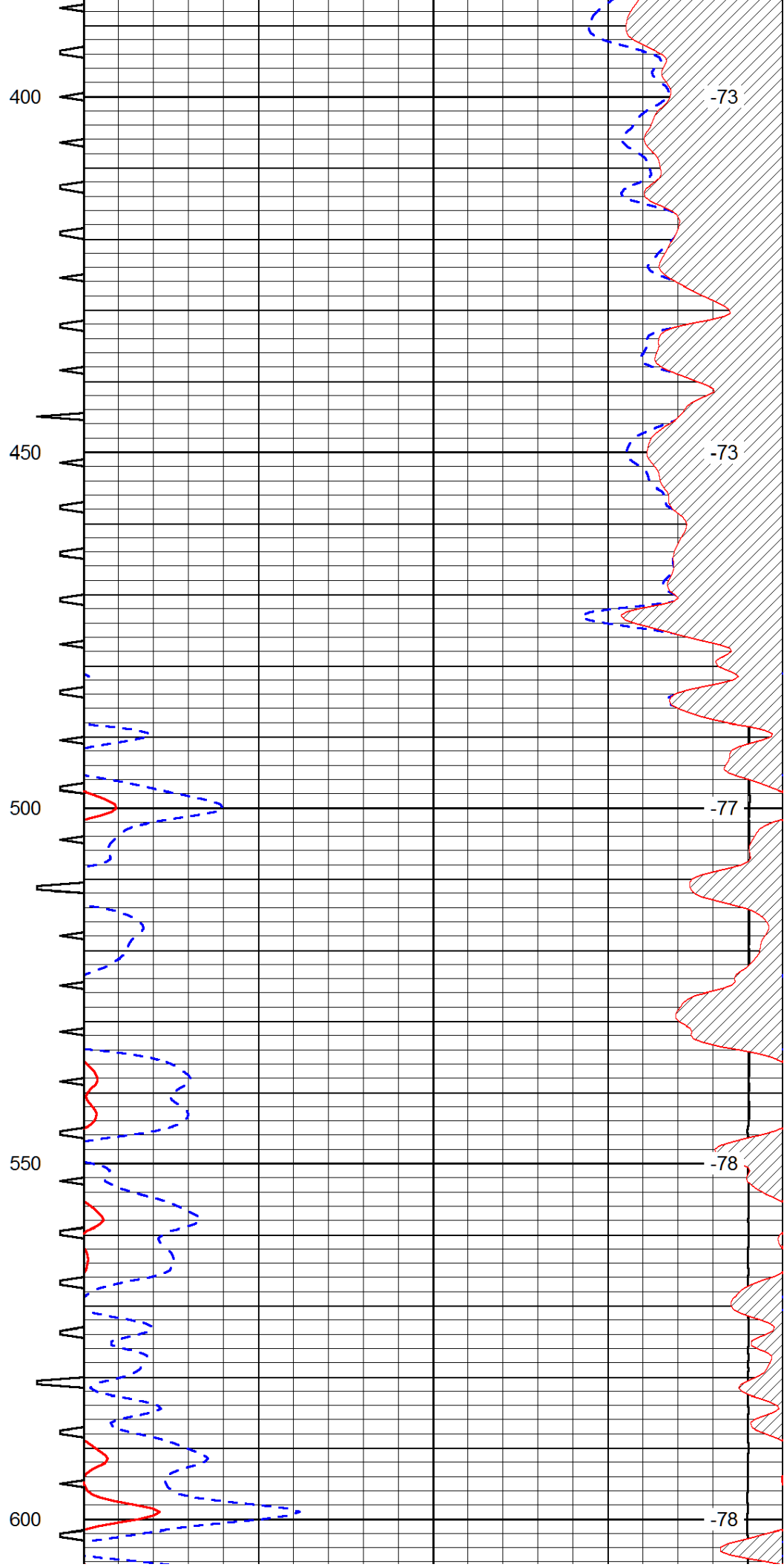
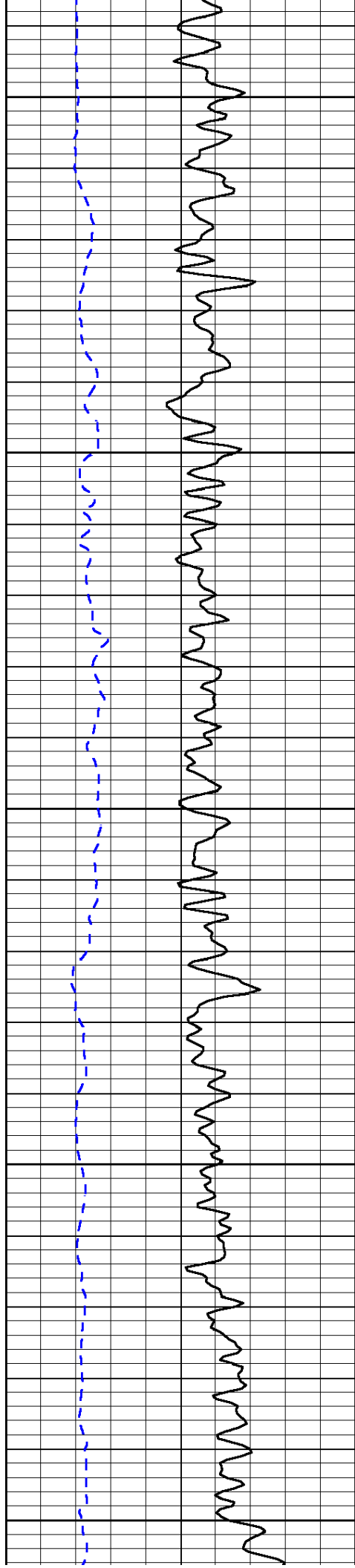
Thank you for using Log-Tech, Inc.
(785) 625-3858

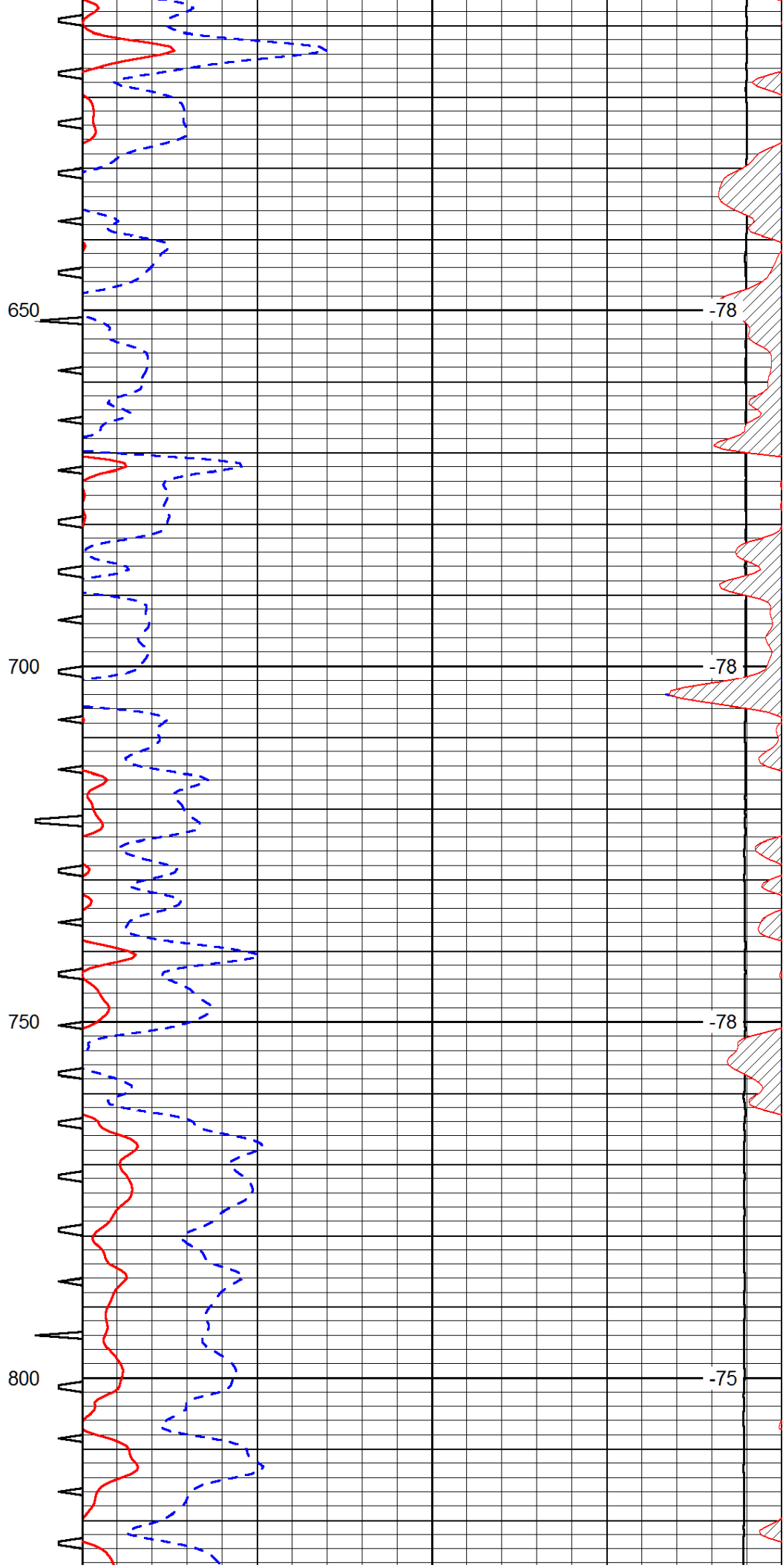
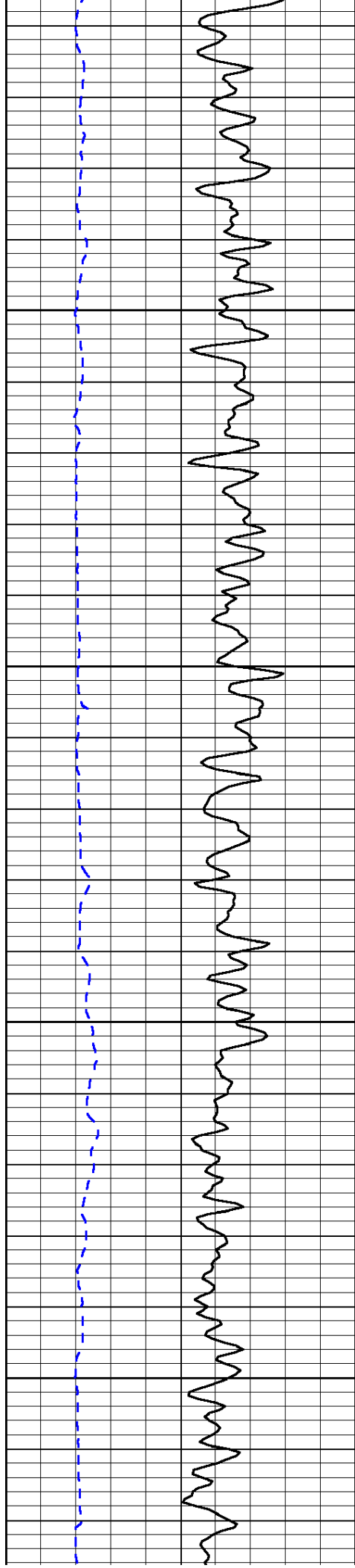
Beardsley KS, N to AA Rd,
W to 10 Rd, N to DD Rd, Follow road west and north into

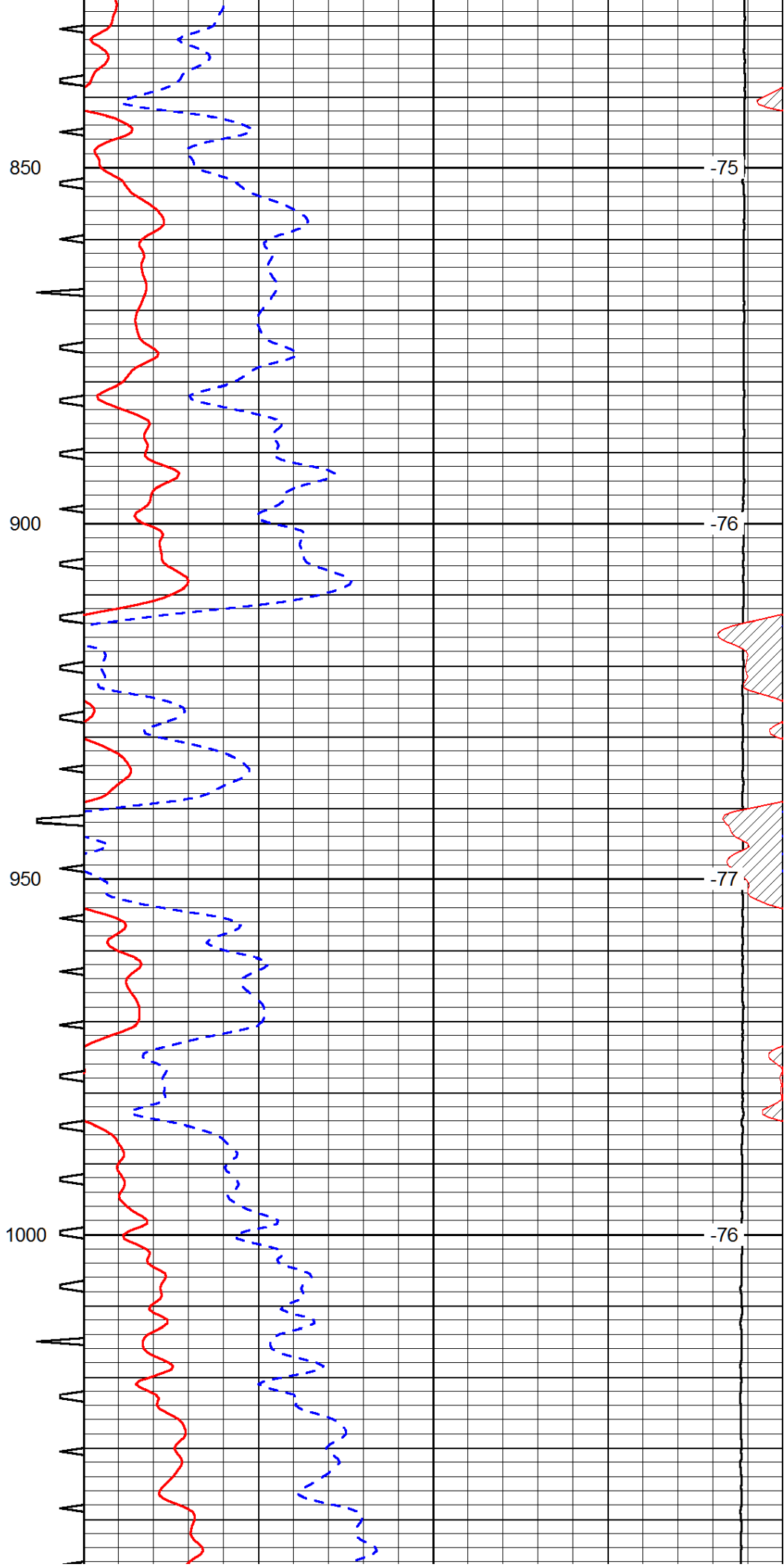
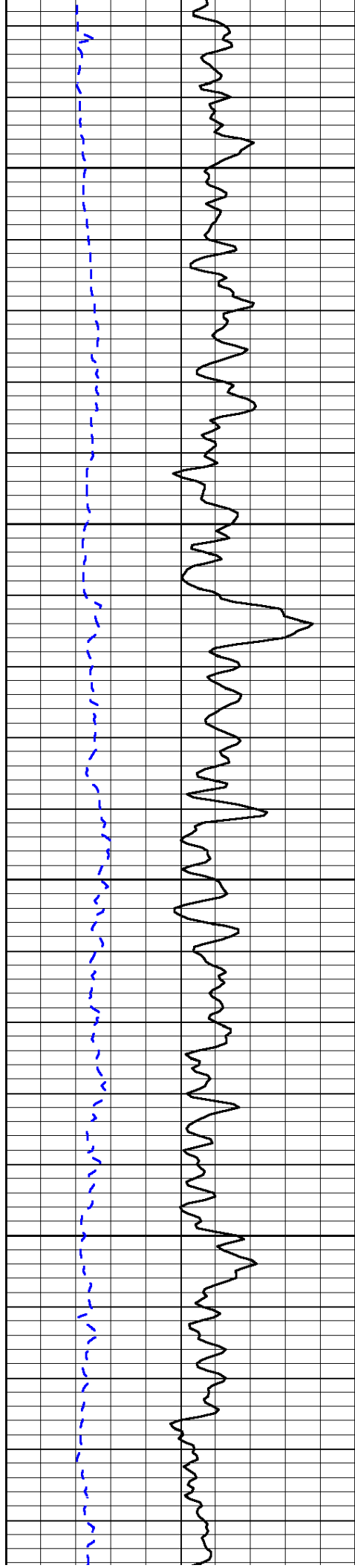
Database File: murfhd.db
Dataset Pathname: dil/murfstk
Presentation Format: sonic
Dataset Creation: Mon Jan 27 15:12:15 2014
Charted by: Depth in Feet scaled 1:240

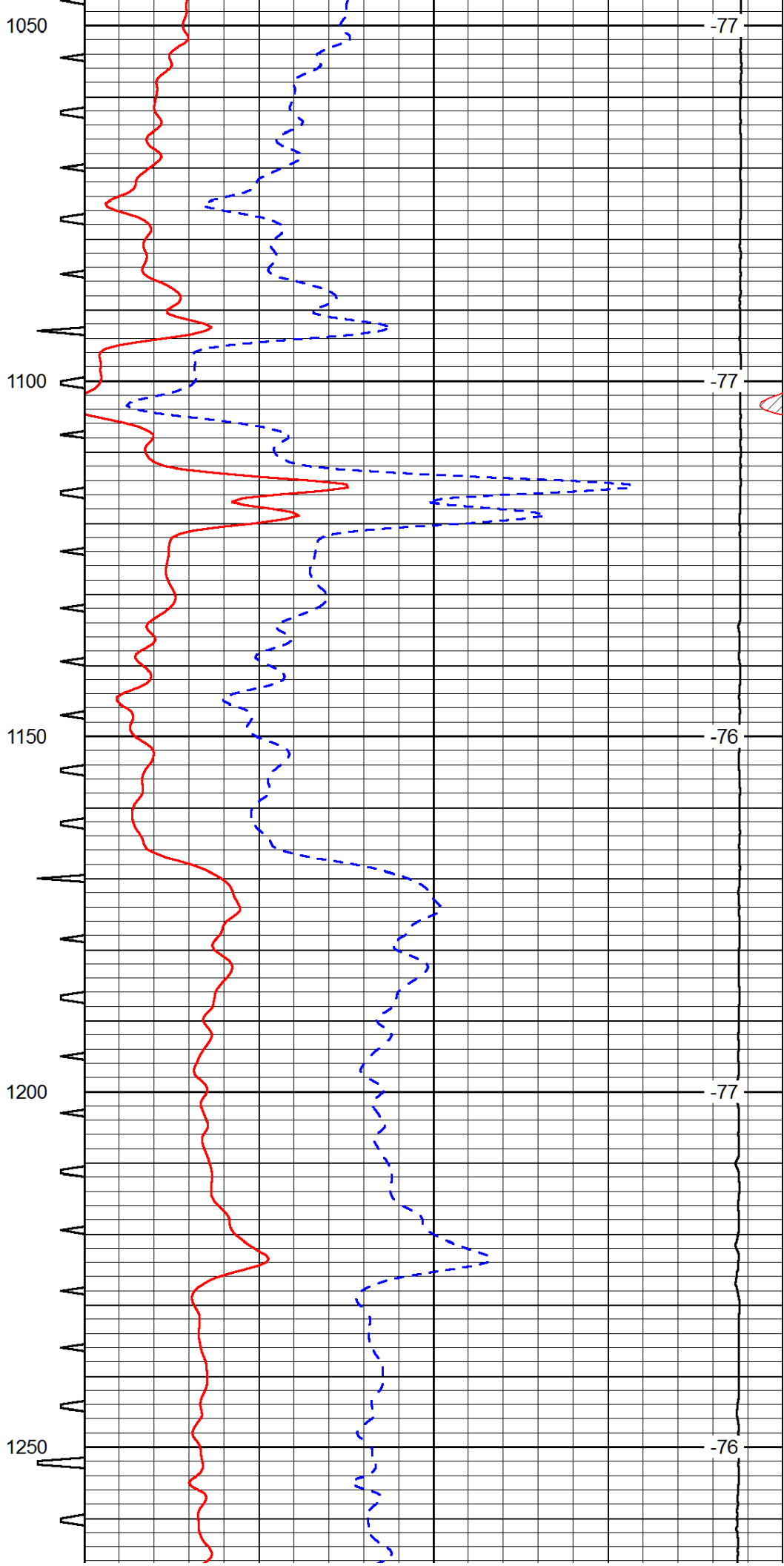
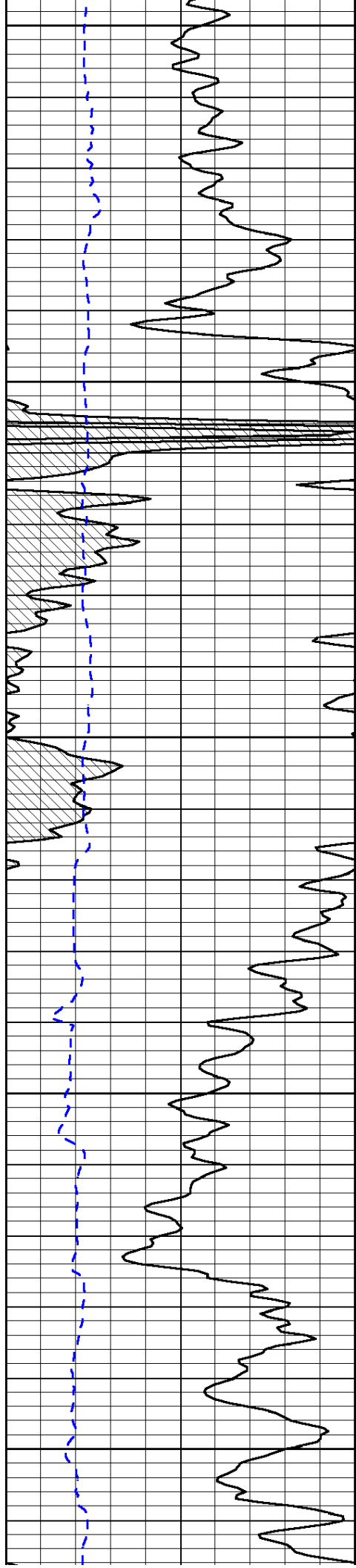
0	Gamma Ray (GAPI)	150	Sonic Int	140	Delta Time (usec/ft) (usec/ft)	40
150	Gamma Ray (GAPI)	300	5 (msec) 0	30	Sonic Porosity (pu)	-10
6	dCAL (in)	16		15000	LTEN (lb) (lb)	0
						LSPD (ft/min)

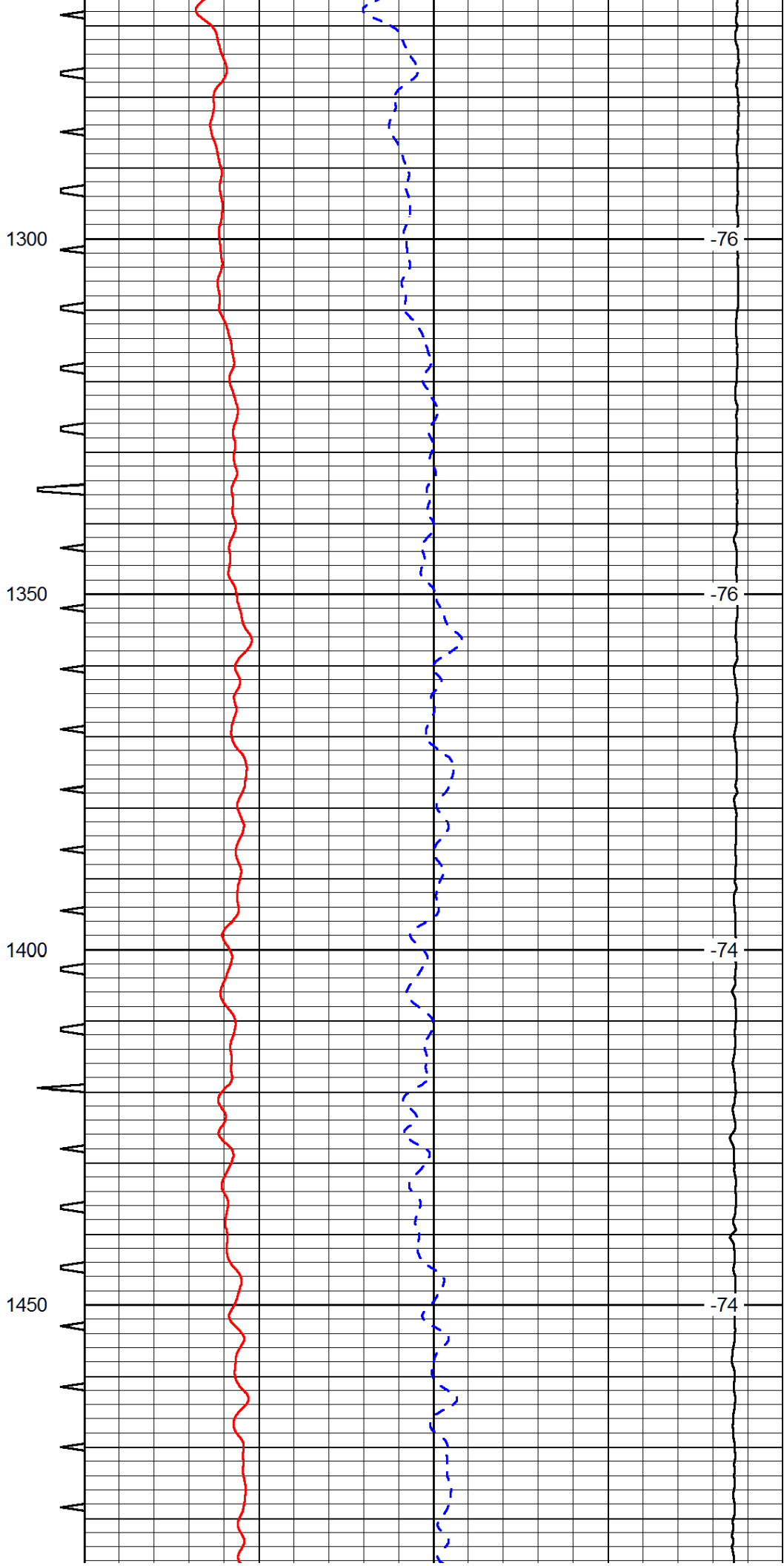
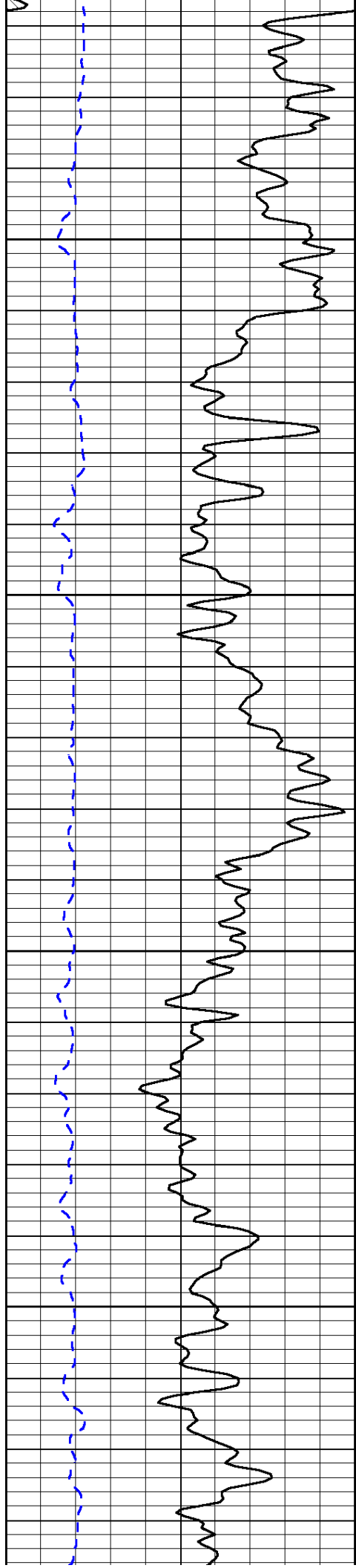


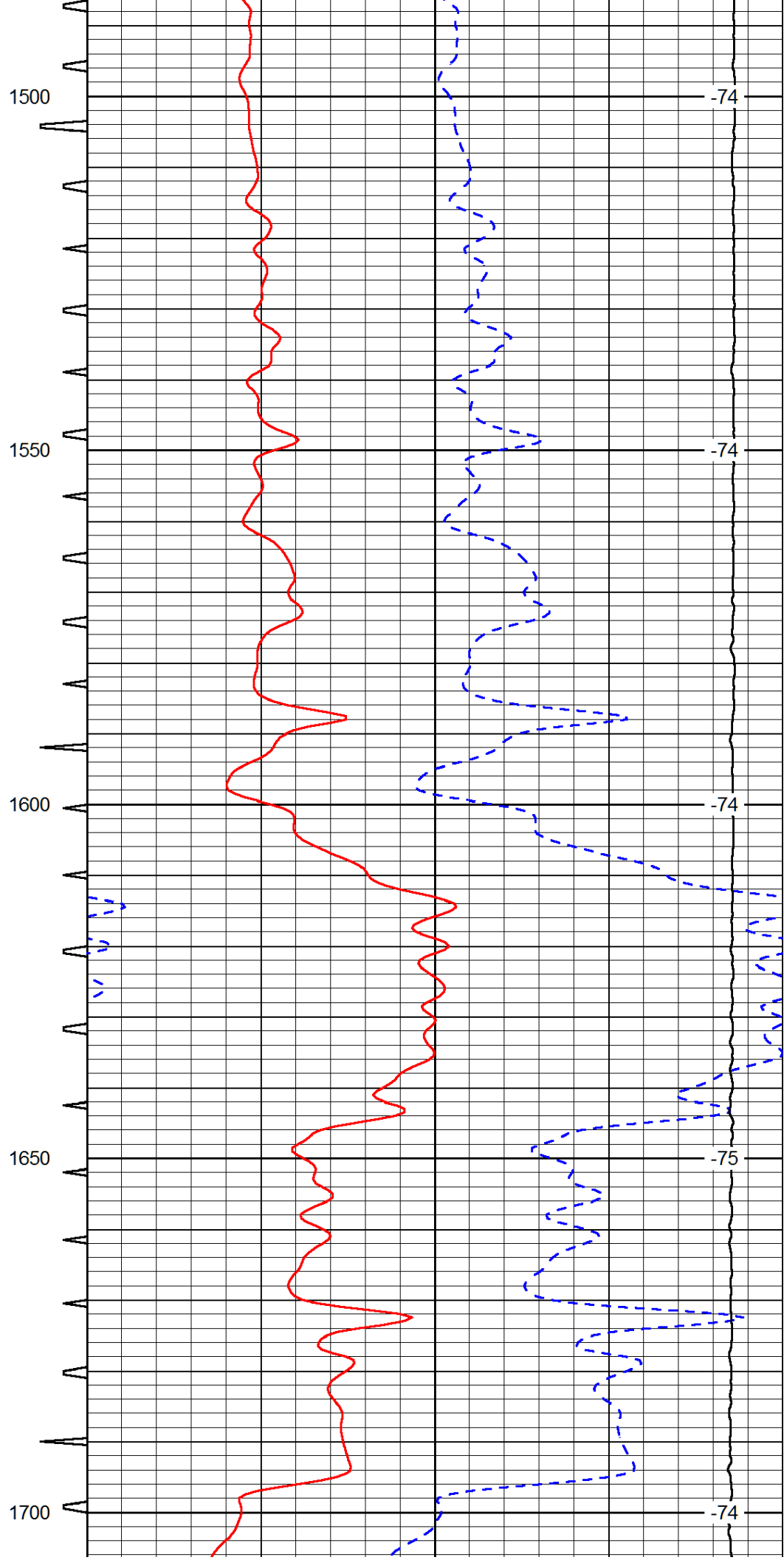
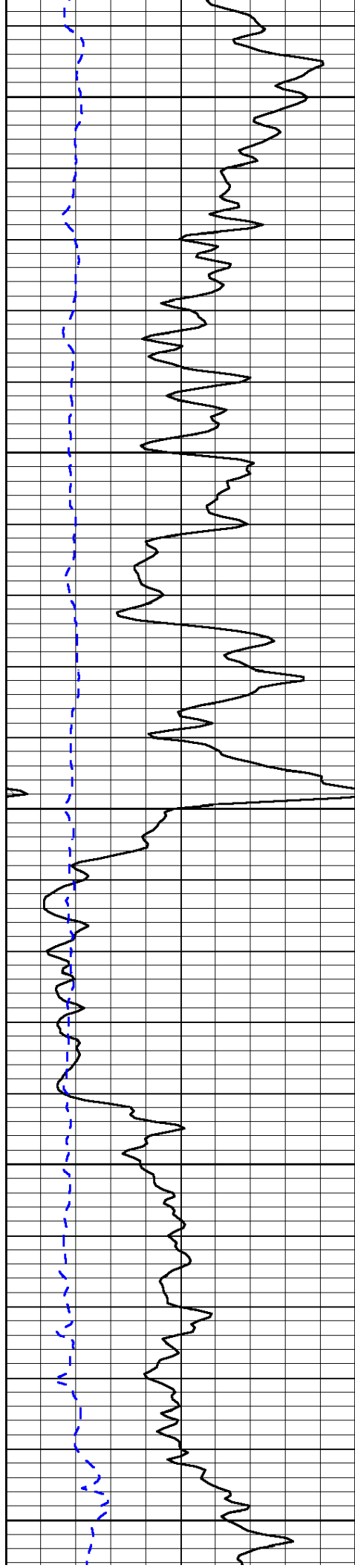


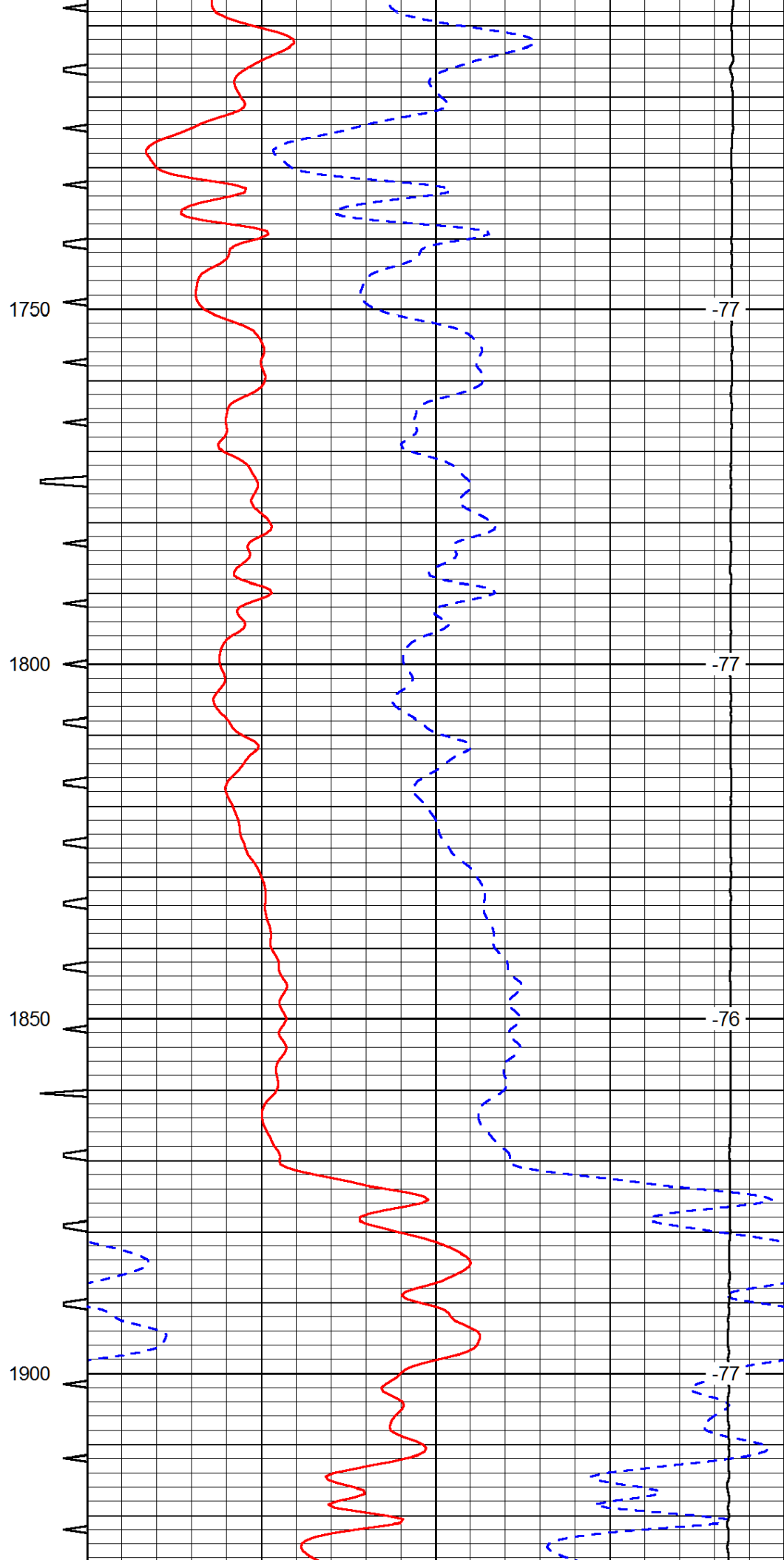
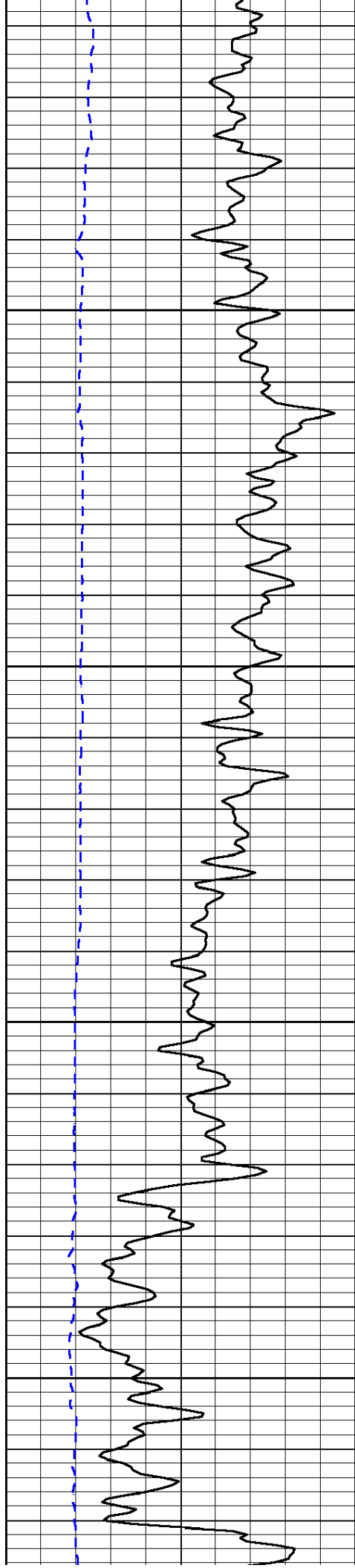


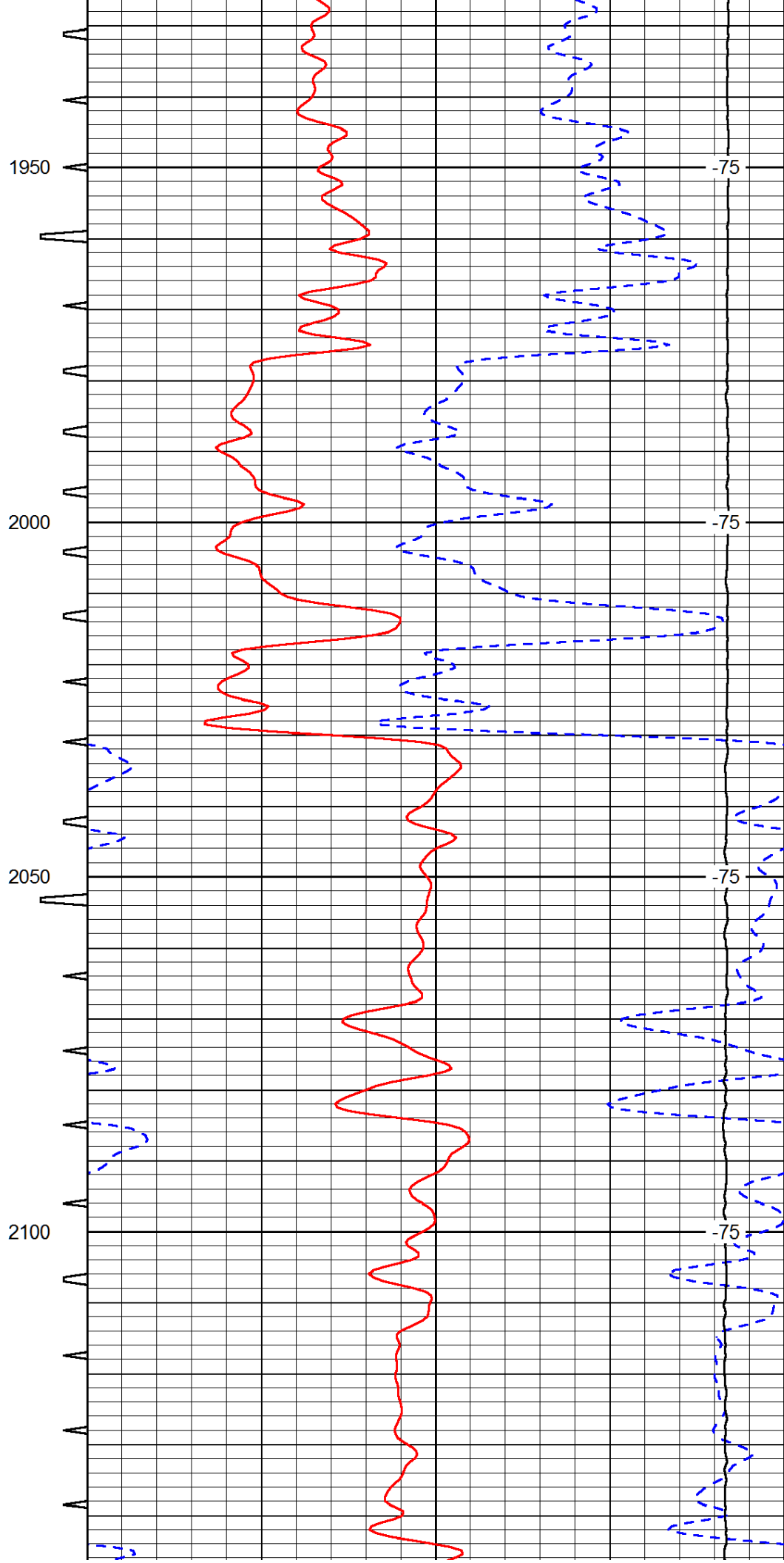
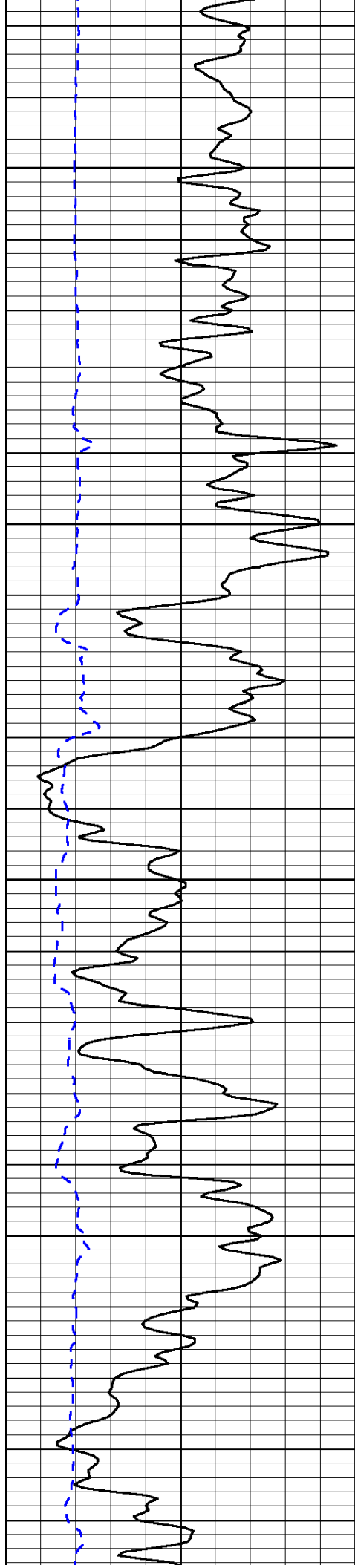


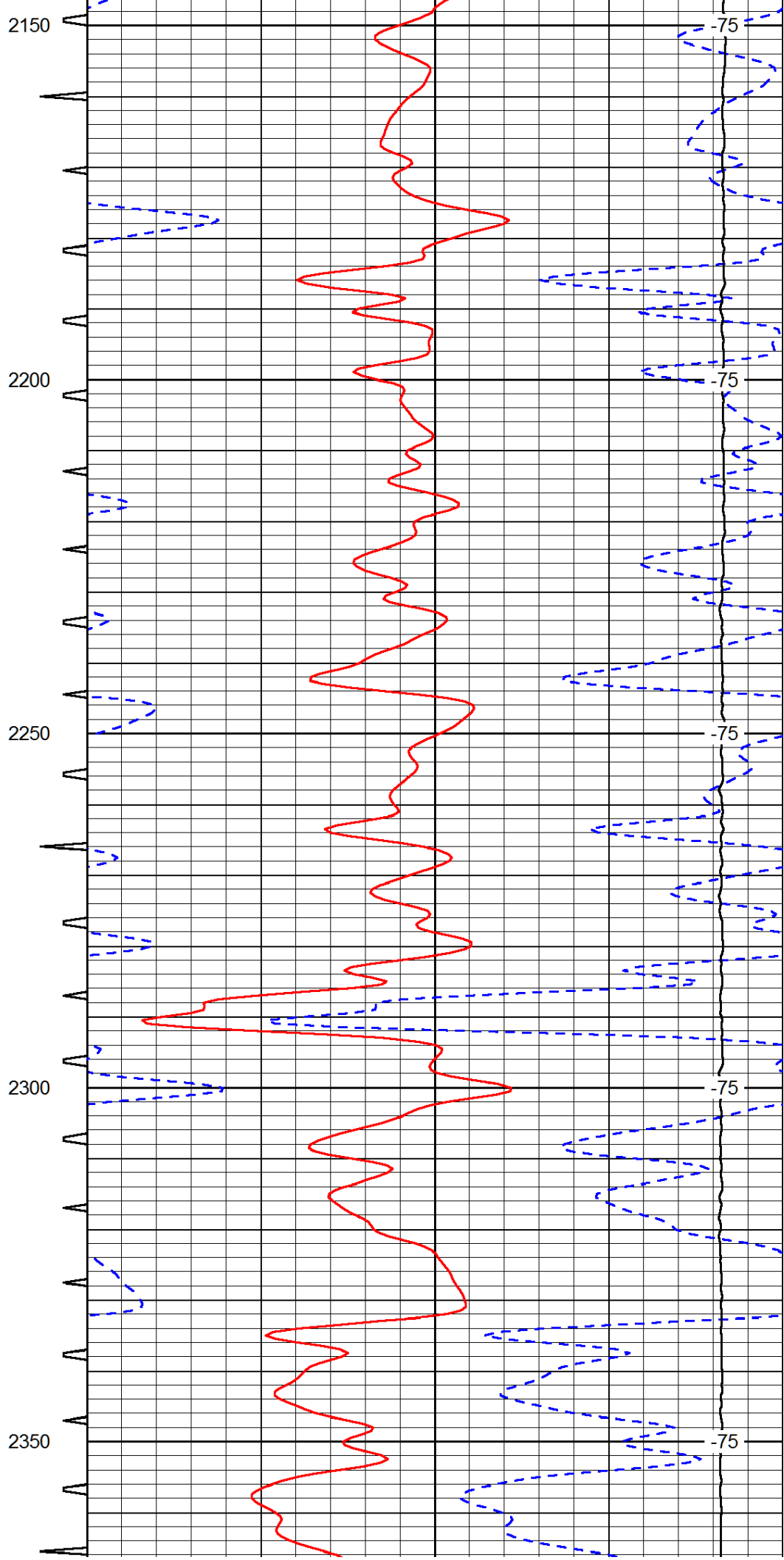
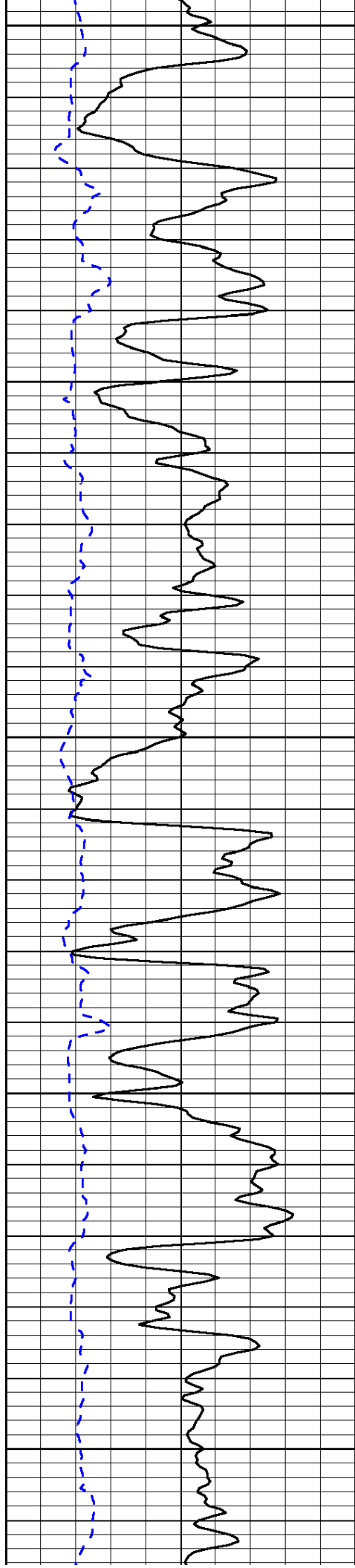


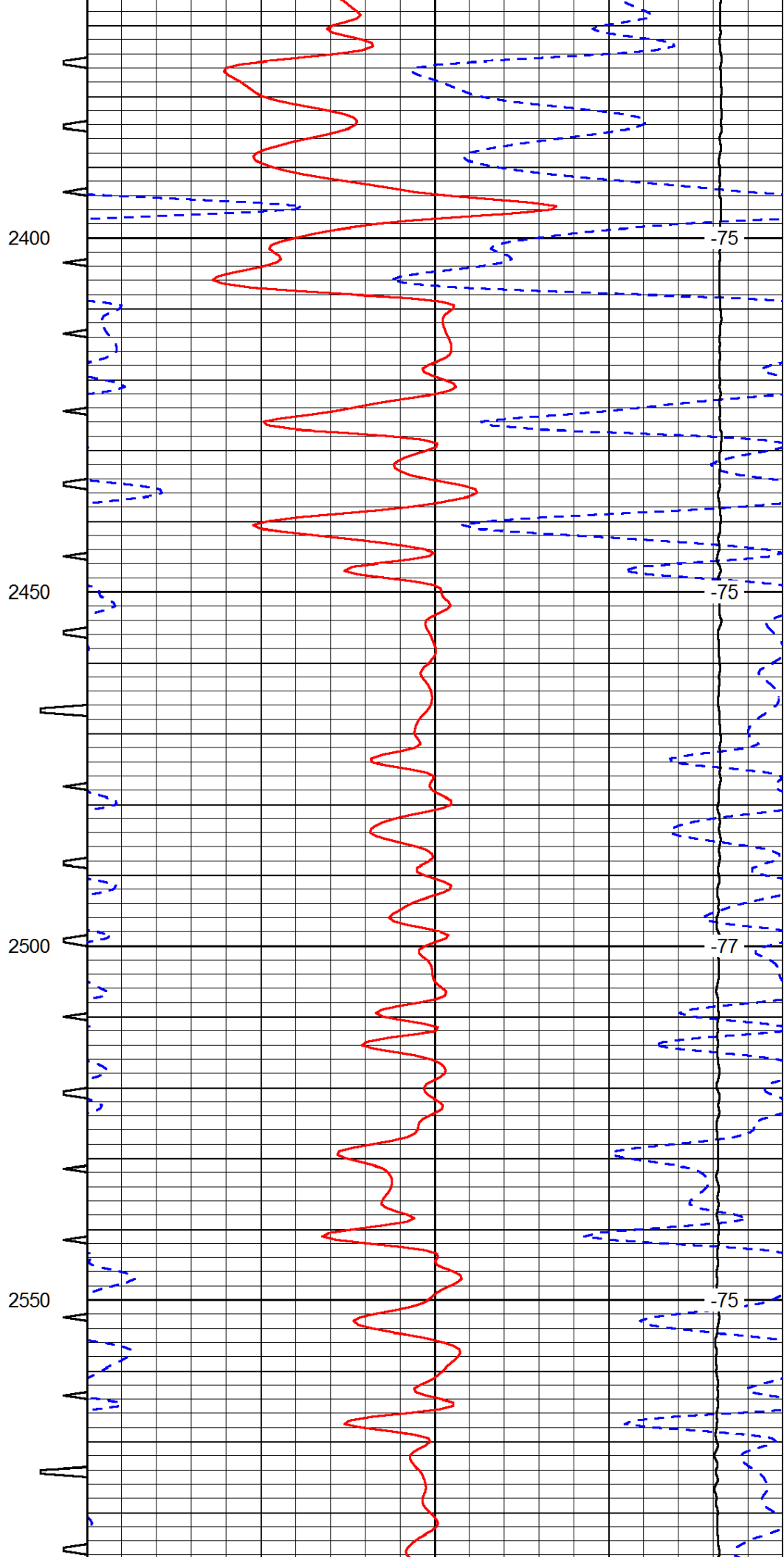
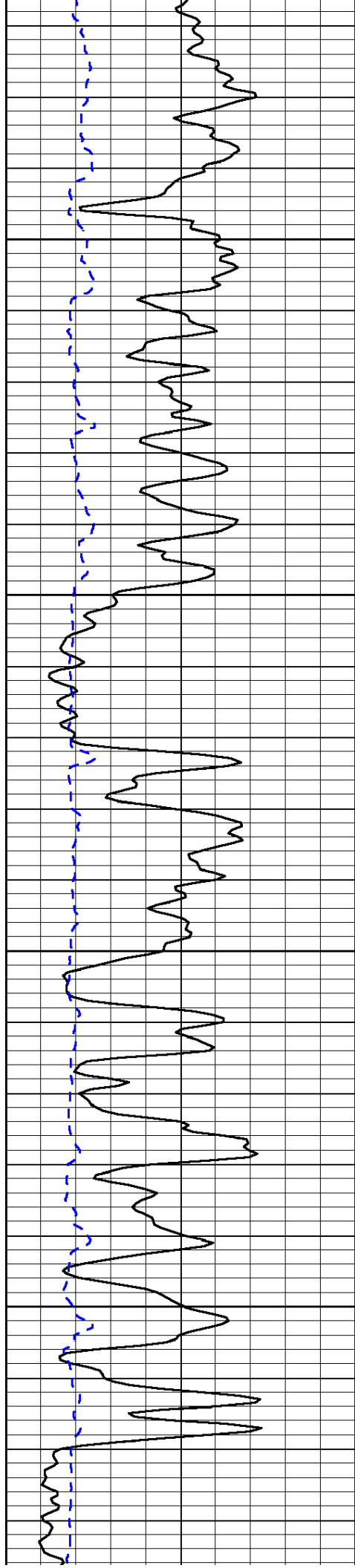


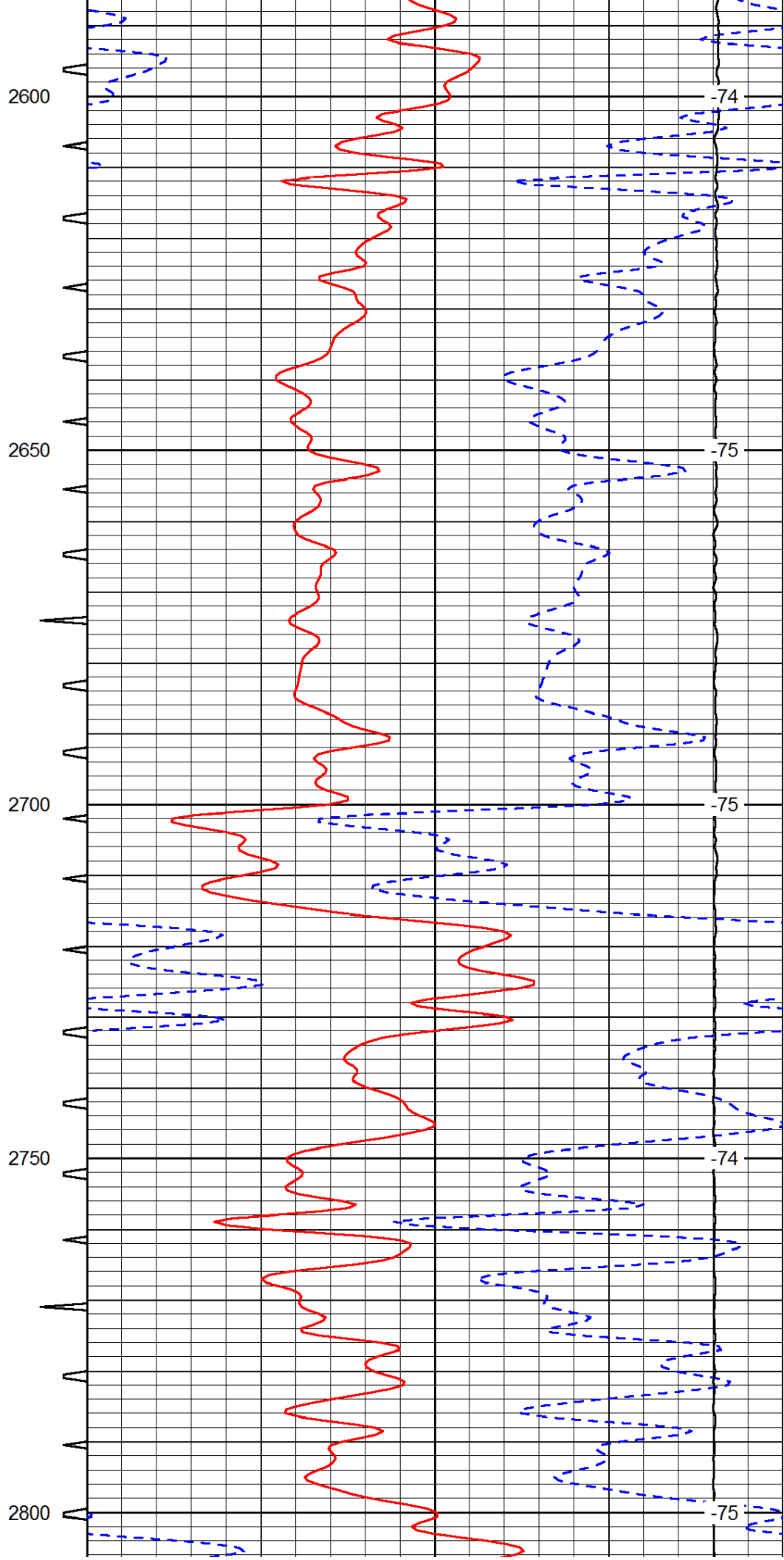
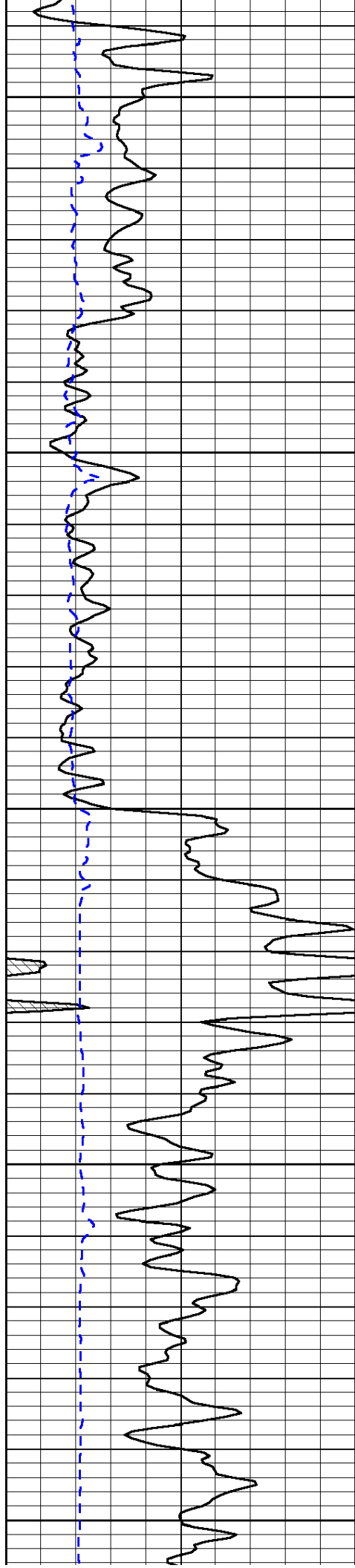


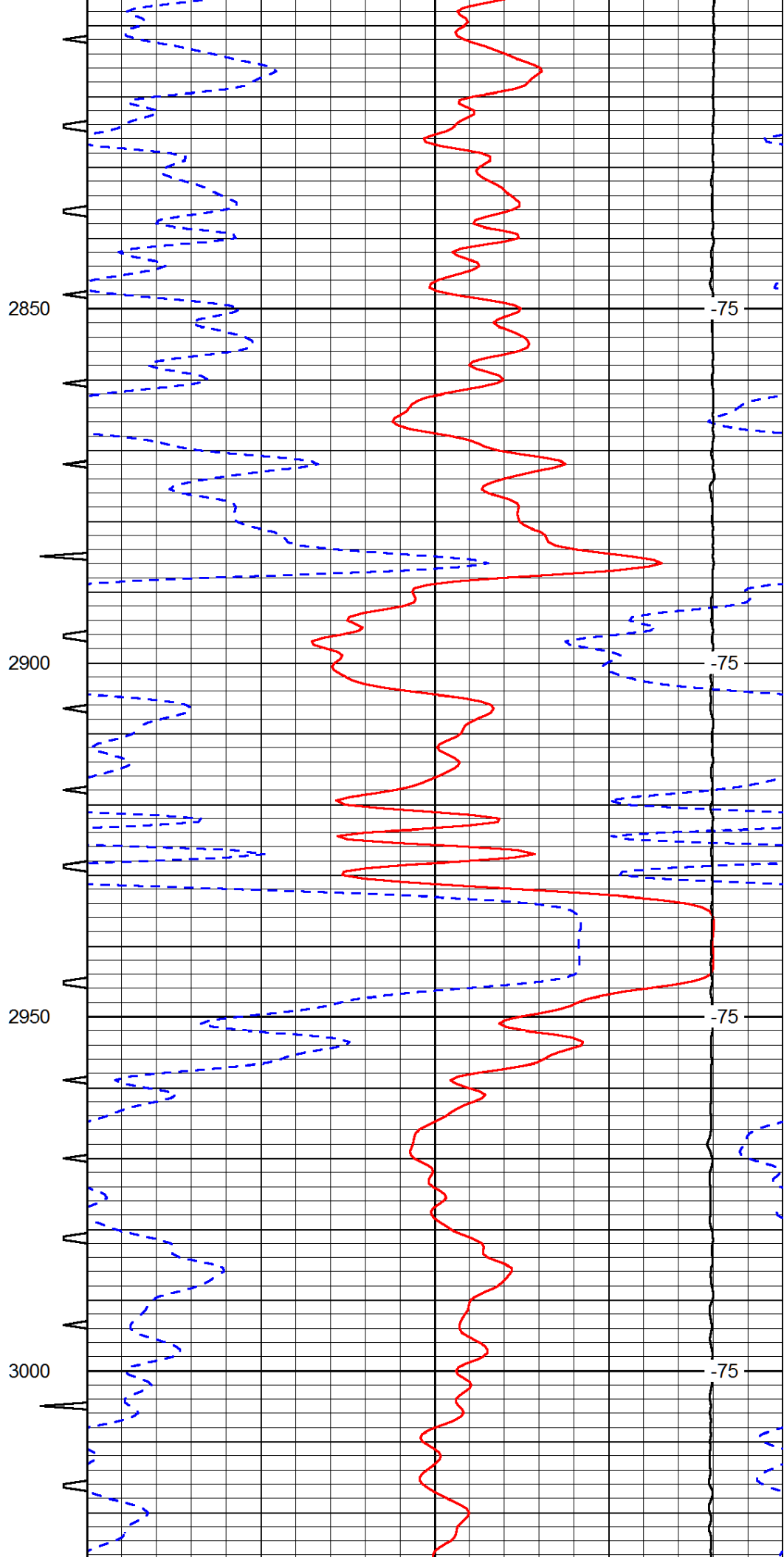
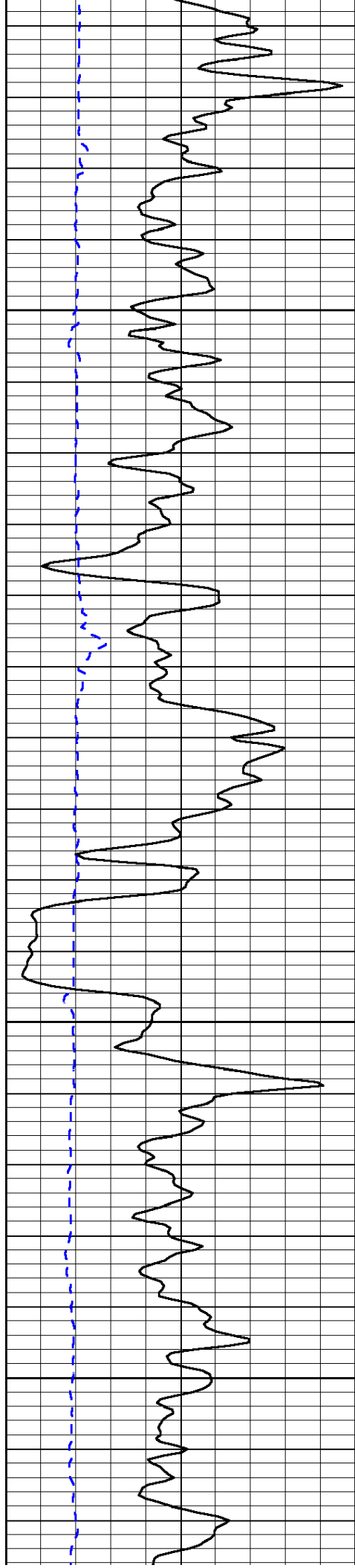


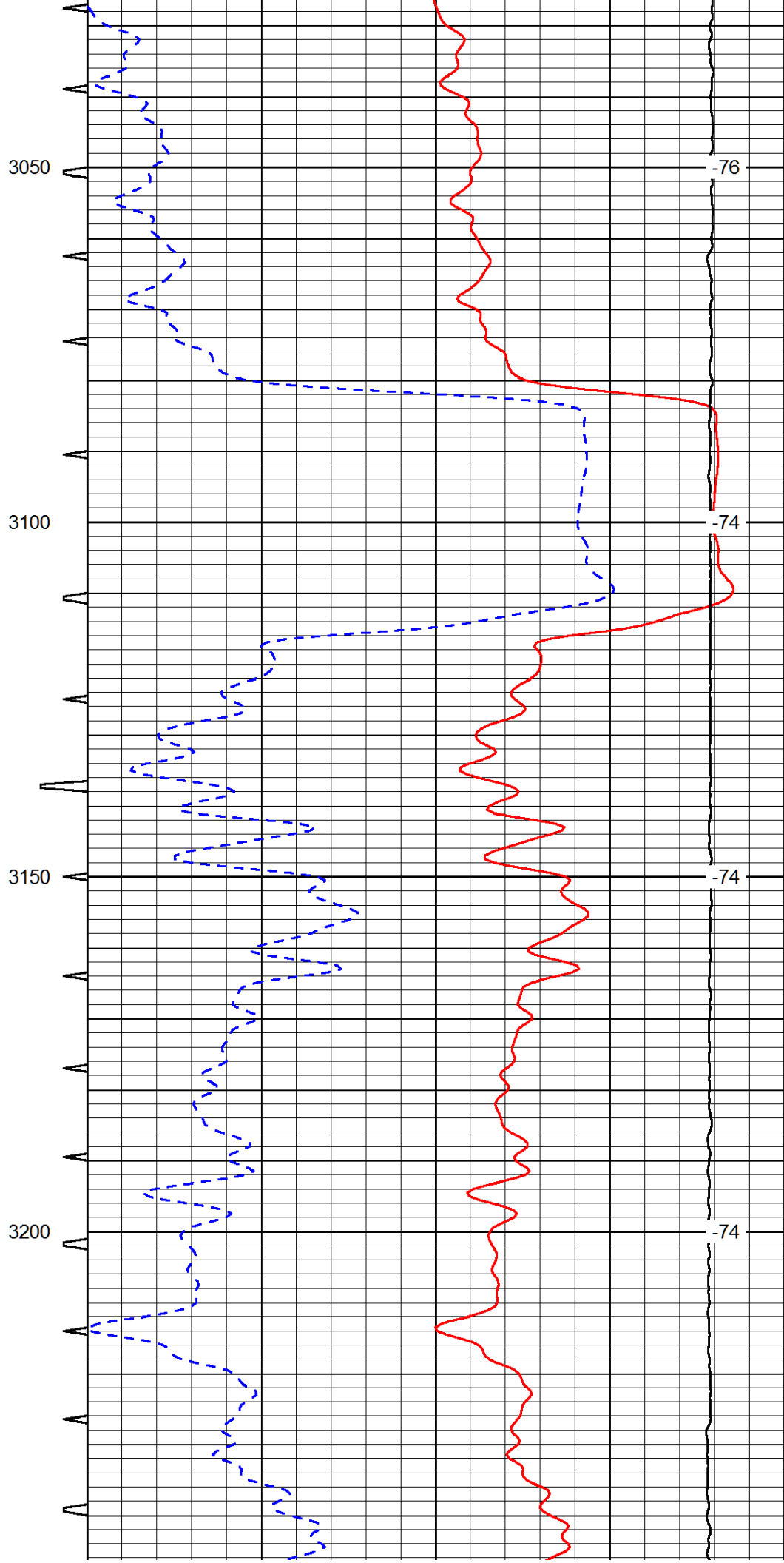
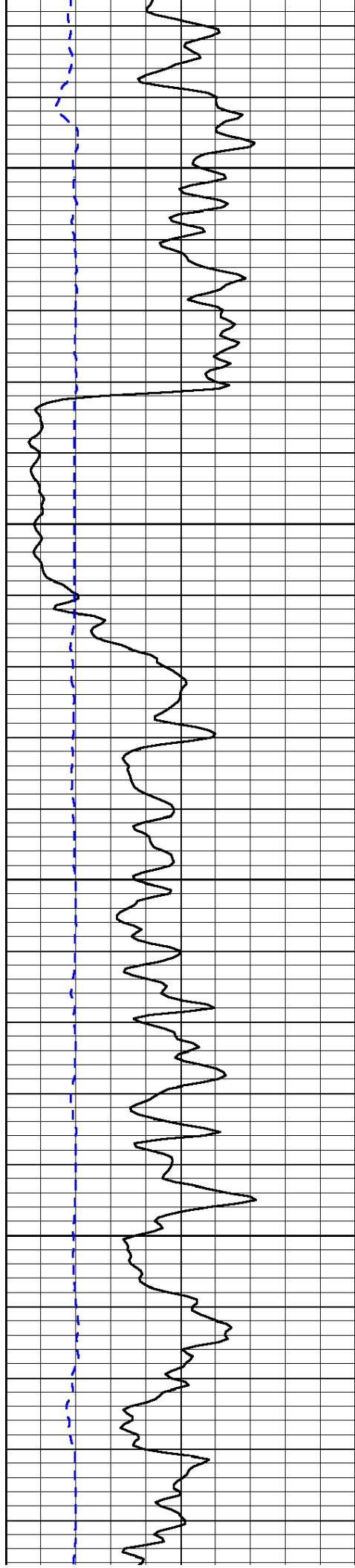


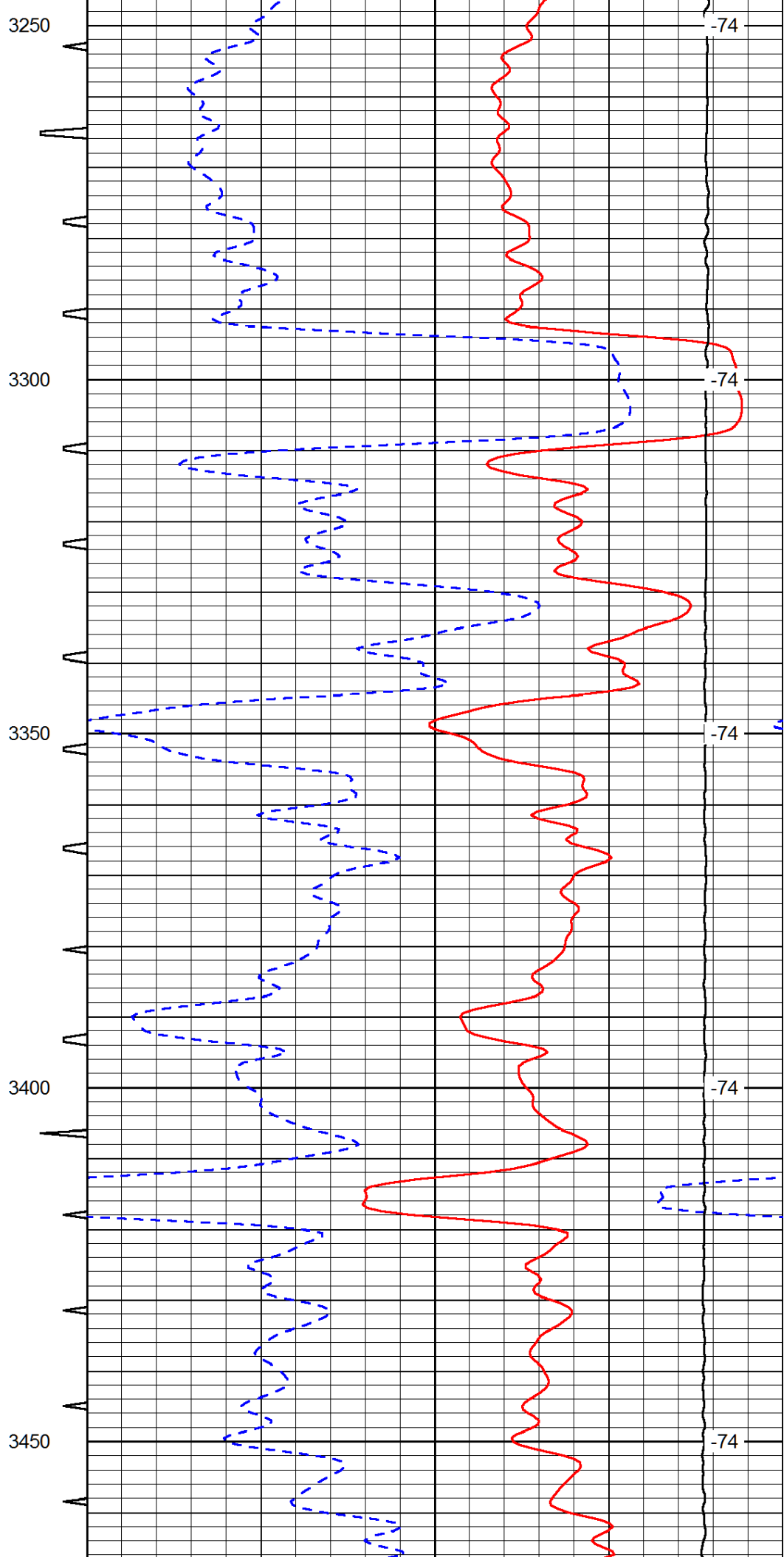
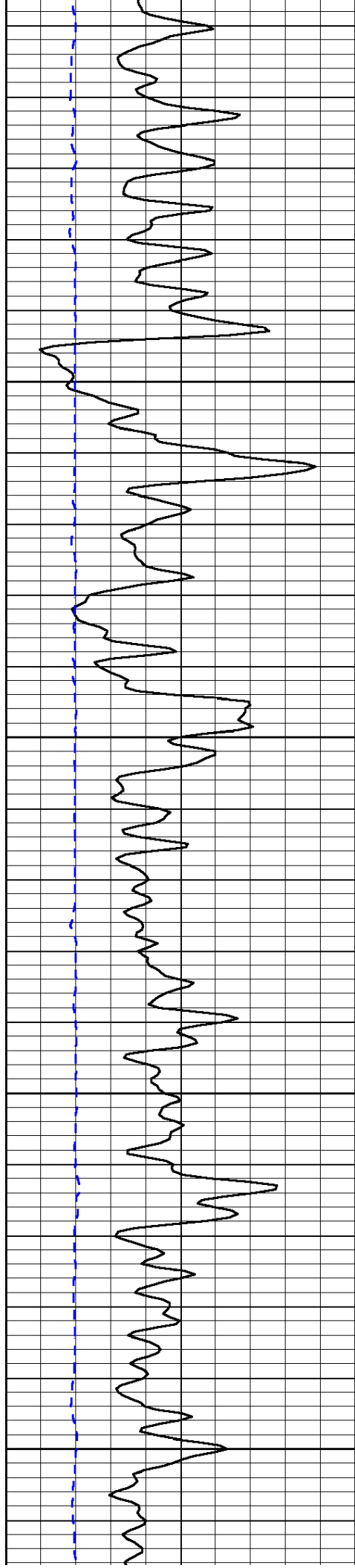


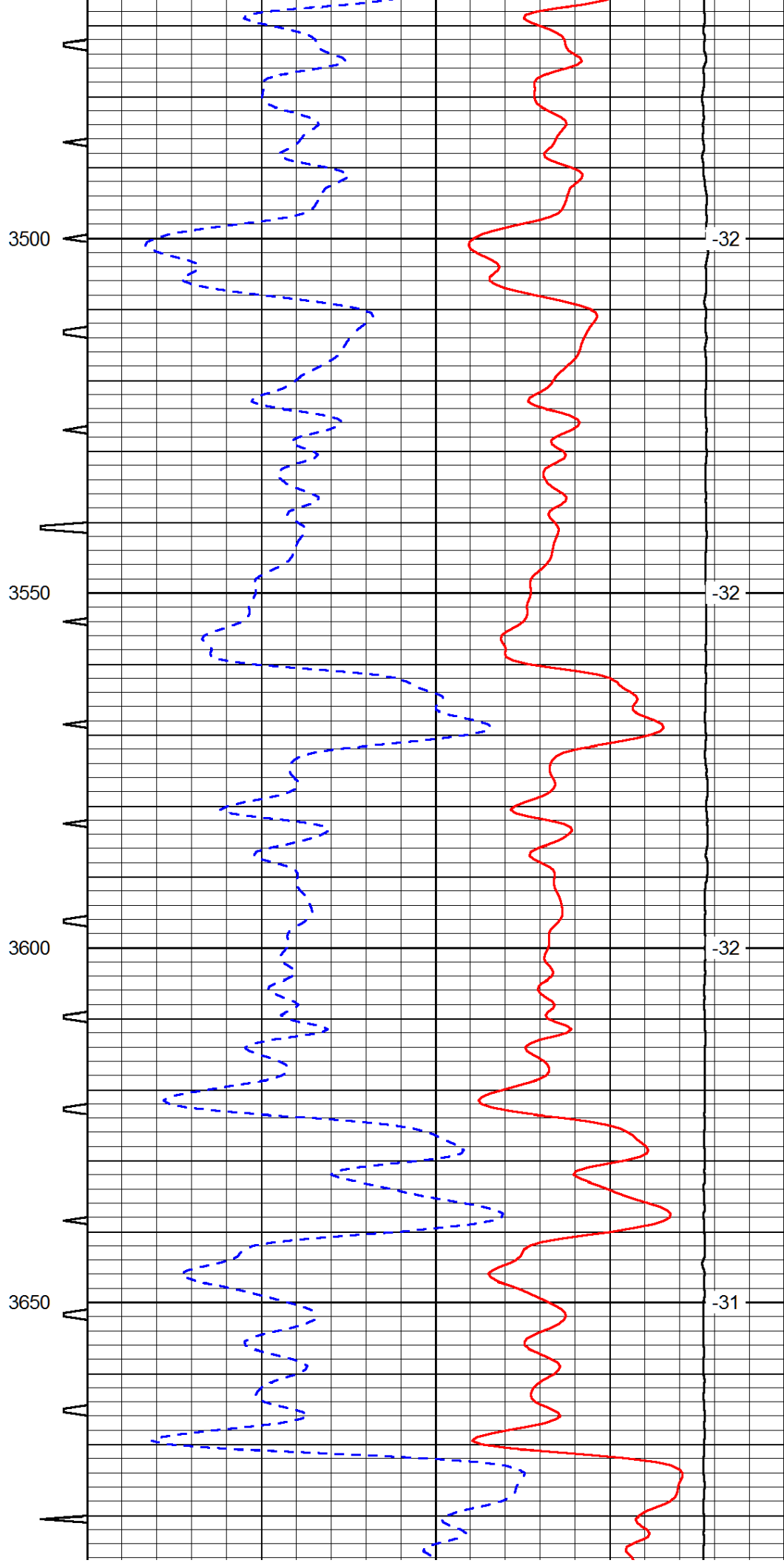
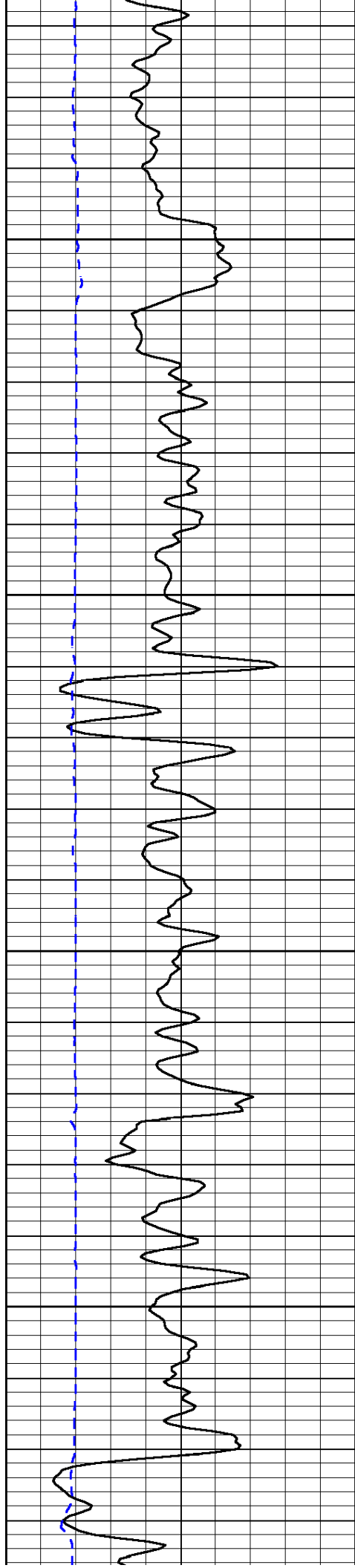


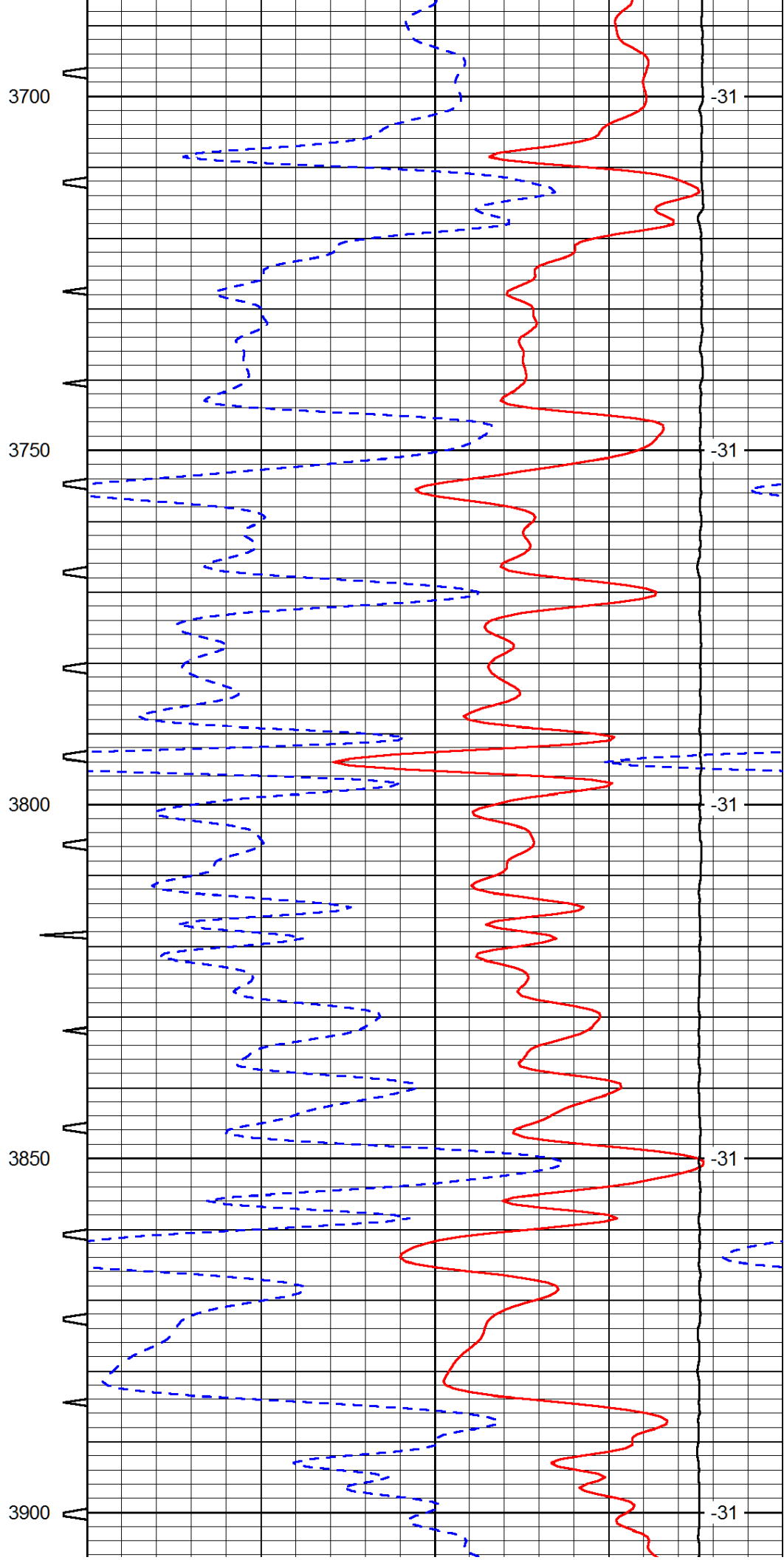
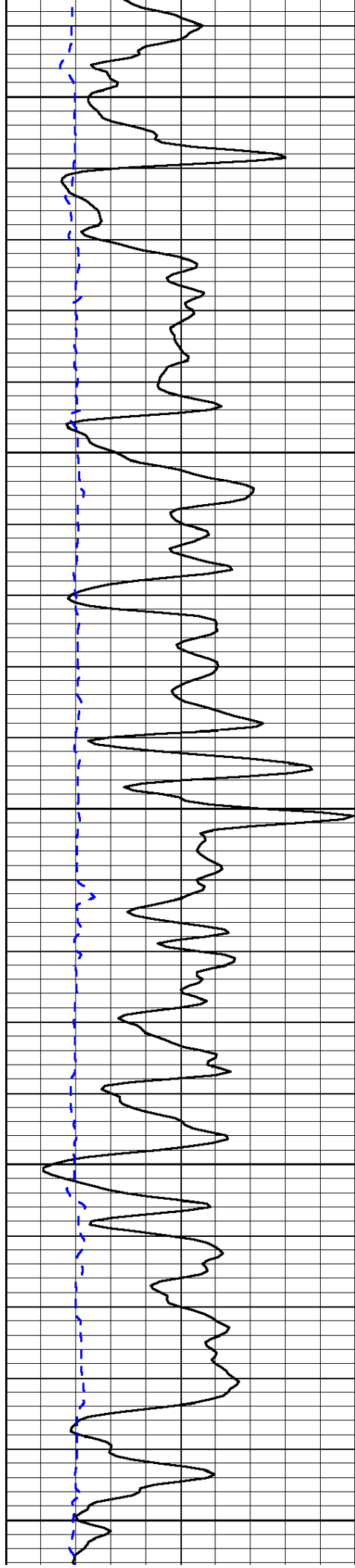


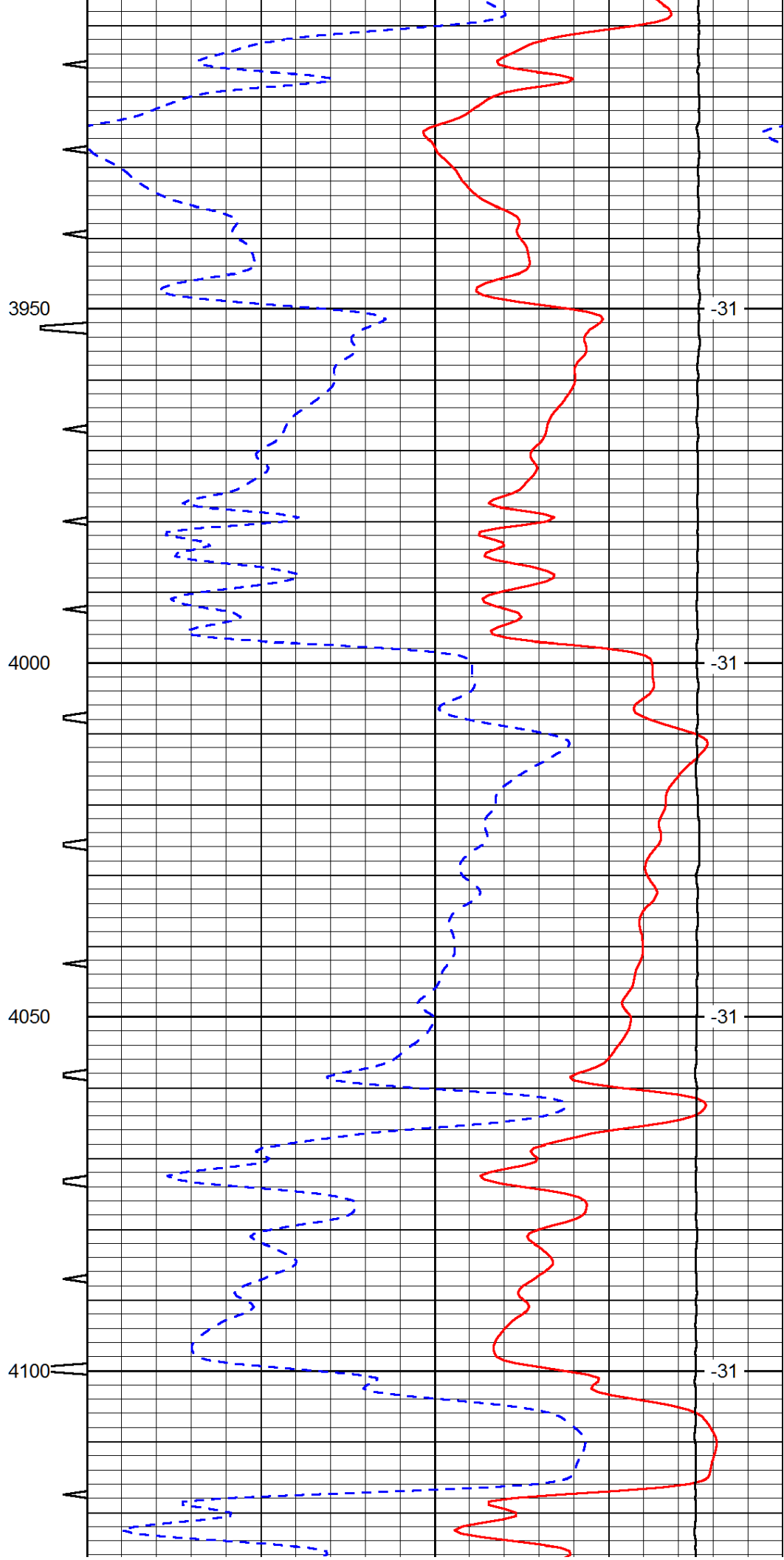
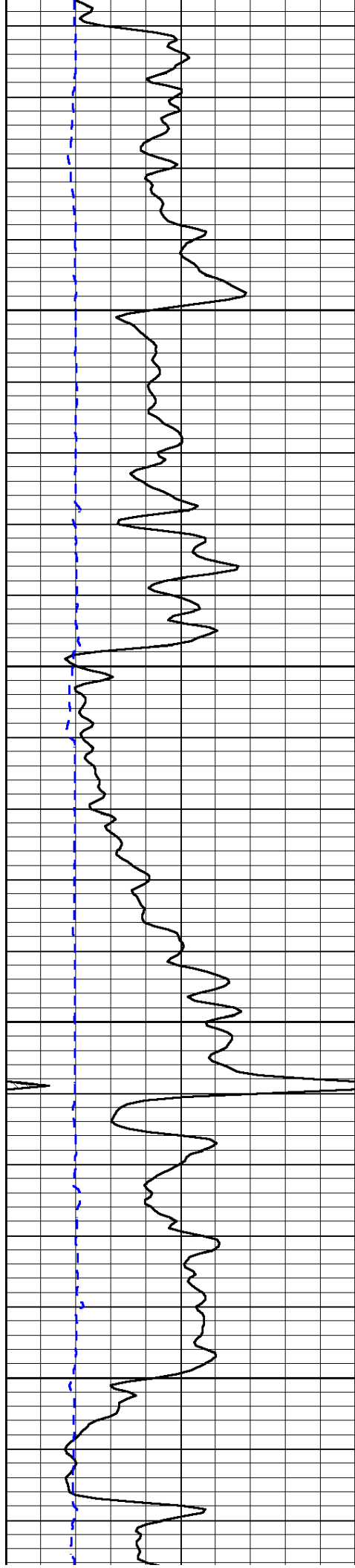


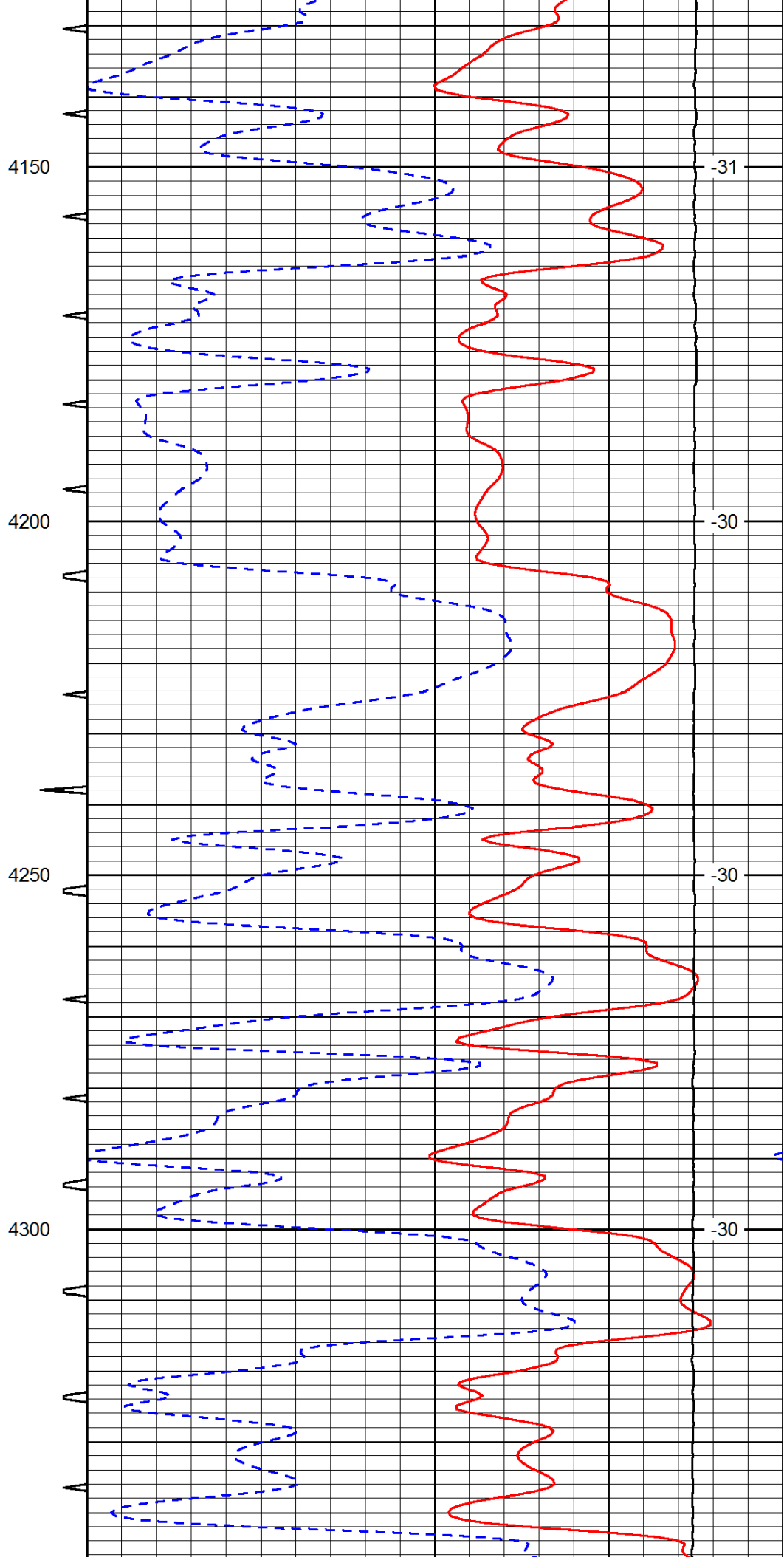
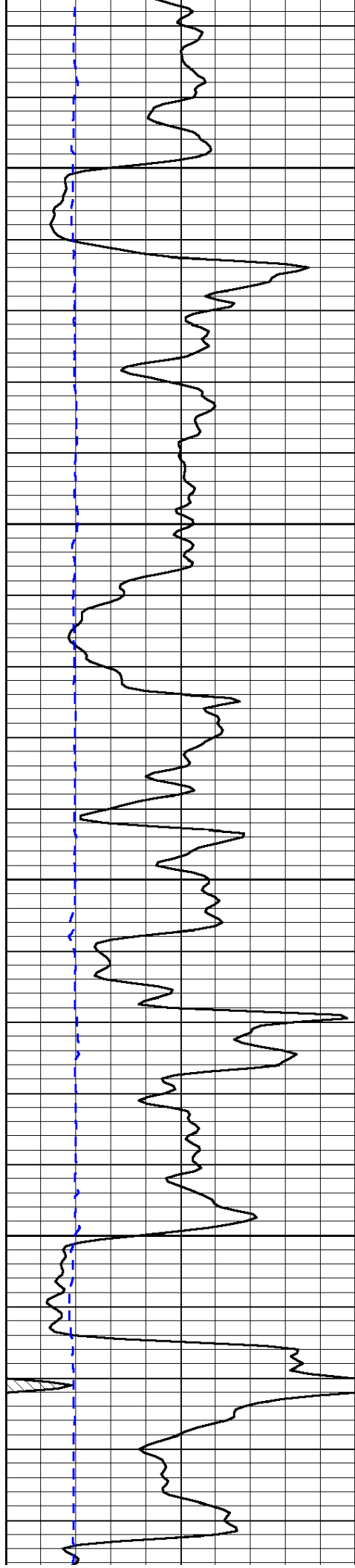


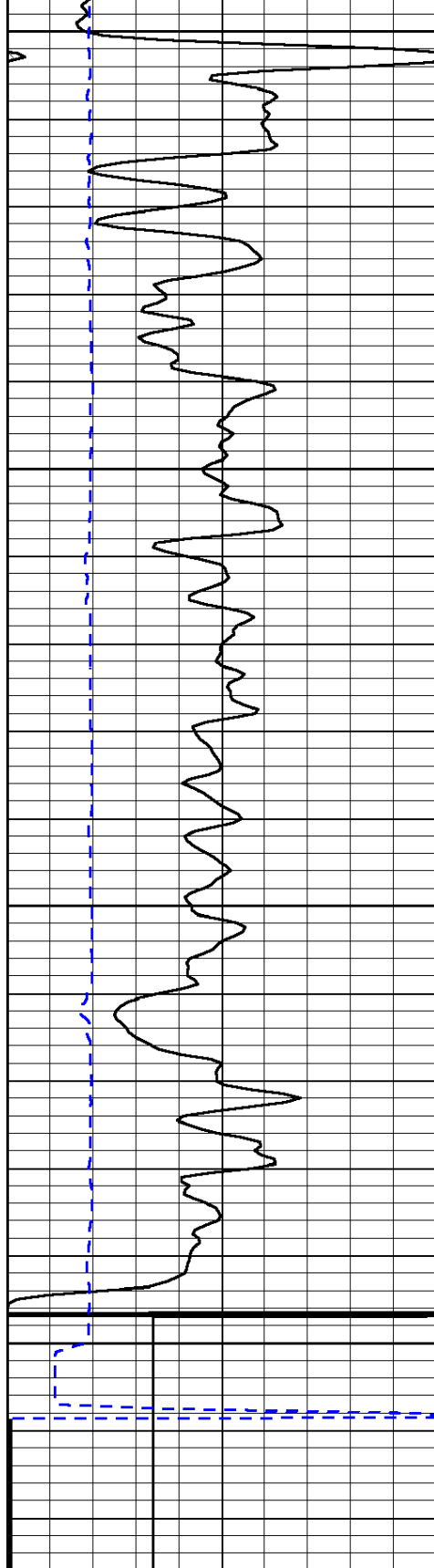




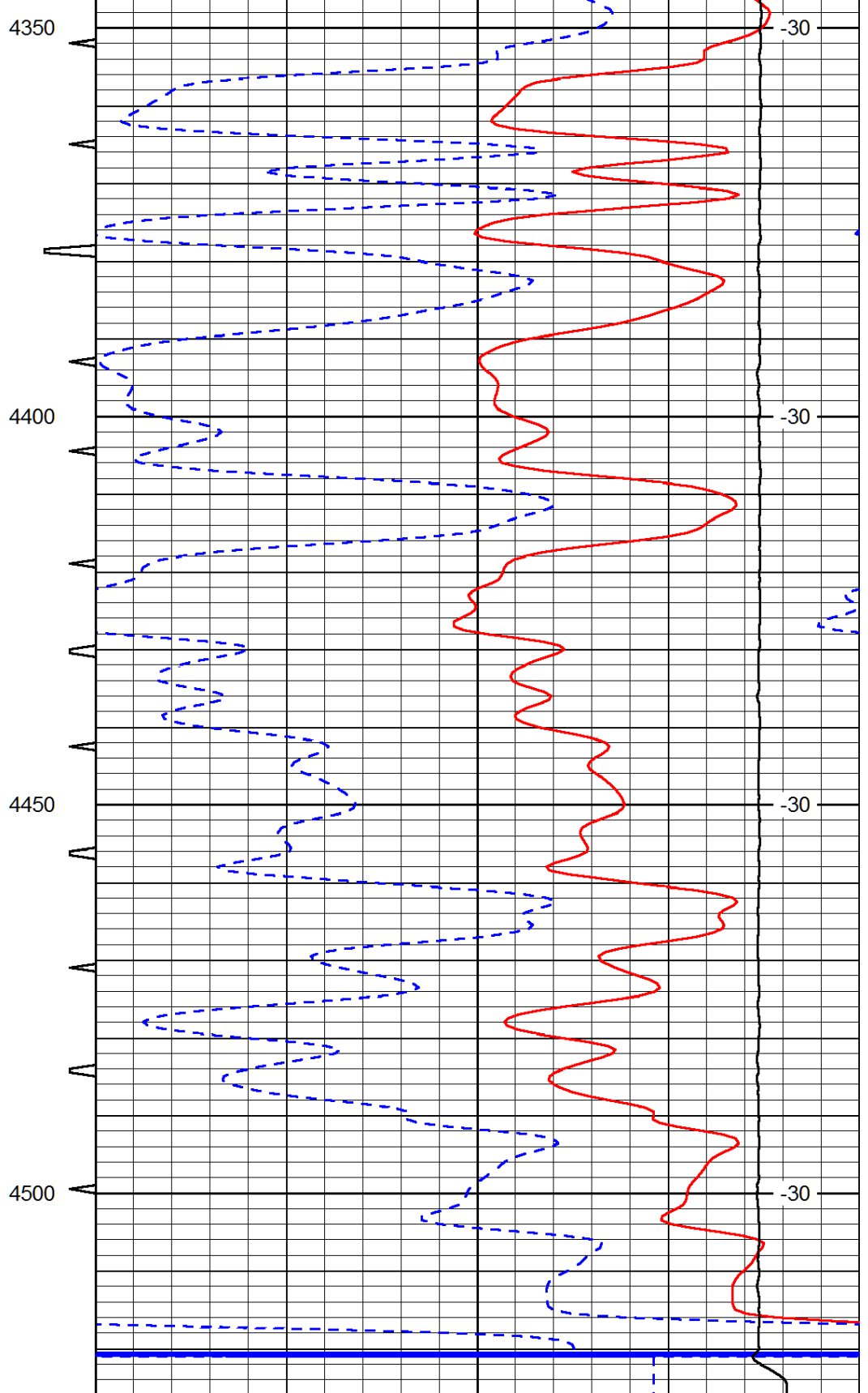








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(ft/min)