



Pioneer Energy Services

Borehole Compensated Sonic Log

API No.

15-171-20990-00-00

Company **Landmark Resources, Inc.**

Well **Decker #3-9**

Field **Wildcat**

County **Scott**

State **Kansas**

Location **1808' FSL & 1792' FEL**

Other Services
CNL/CDL
MEL/DIL

Sec: 9

Twp: 17S

Rge: 34W

Elevation

Permanent Datum Ground Level Elevation 3129
Log Measured From Kelly Bushing 5 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Date 10/24/2013

Run Number Two

Type Log BHC Sonic

Depth Driller 4925

Depth Logger 4925

Bottom Logged Interval 4914

Top Logged Interval 250

Type Fluid In Hole Chemical

Salinity, PPM CL 10000

Density 9.4

Level Full

Max. Rec. Temp. F 127

Operating Rig Time 5 Hours

Equipment -- Location 91 Days

Recorded By D. Schmidt

Witnessed By Terry McLeod

Borehole Record

Casing Record

Run No.	Bit	From	To	Size	Wgt.	From	To
One	12.25	00	260	8.625	23#	00	260
Two	7.875	260	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.

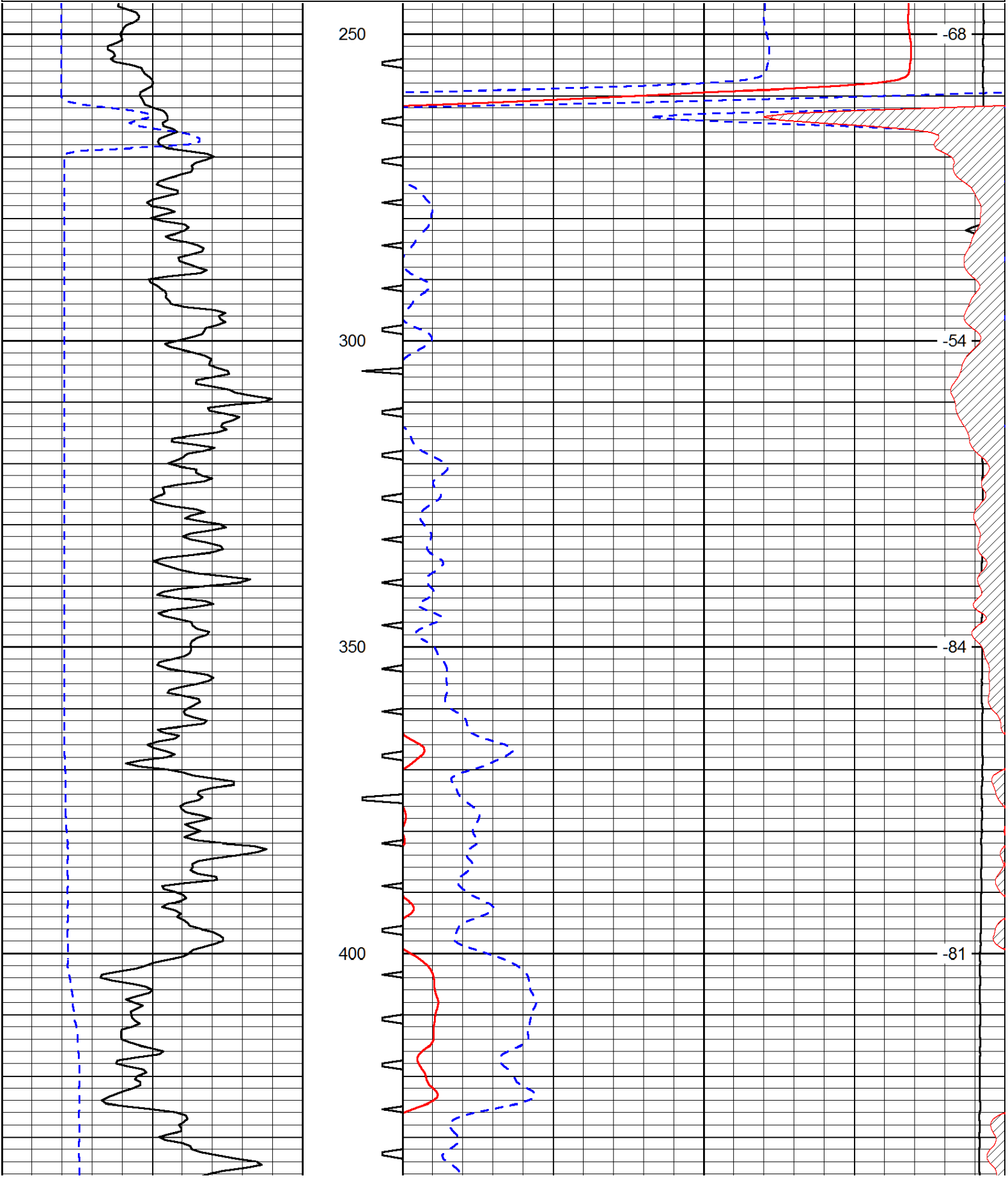
Comments

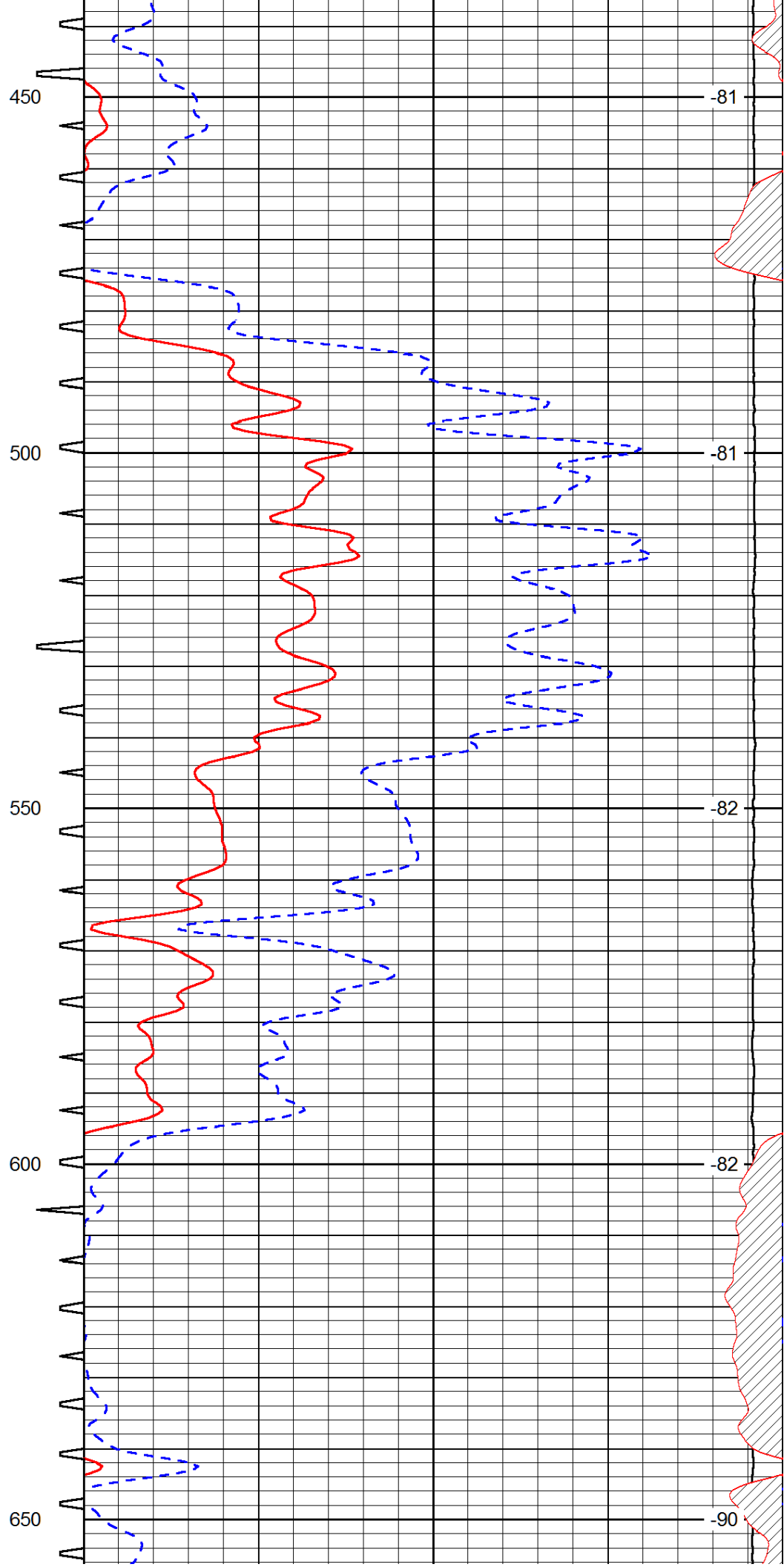
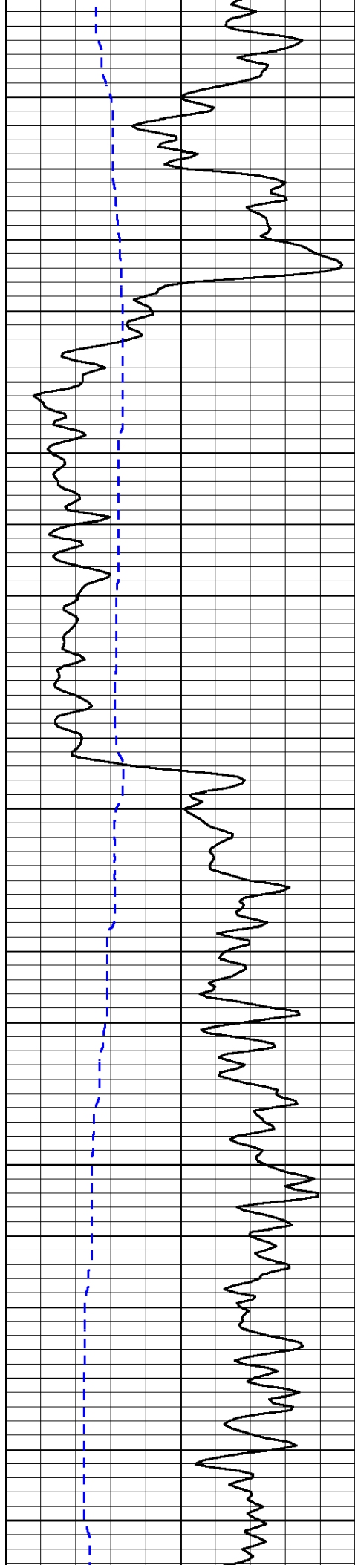
Thank you for using Log-Tech, Inc.
(785) 625-3858

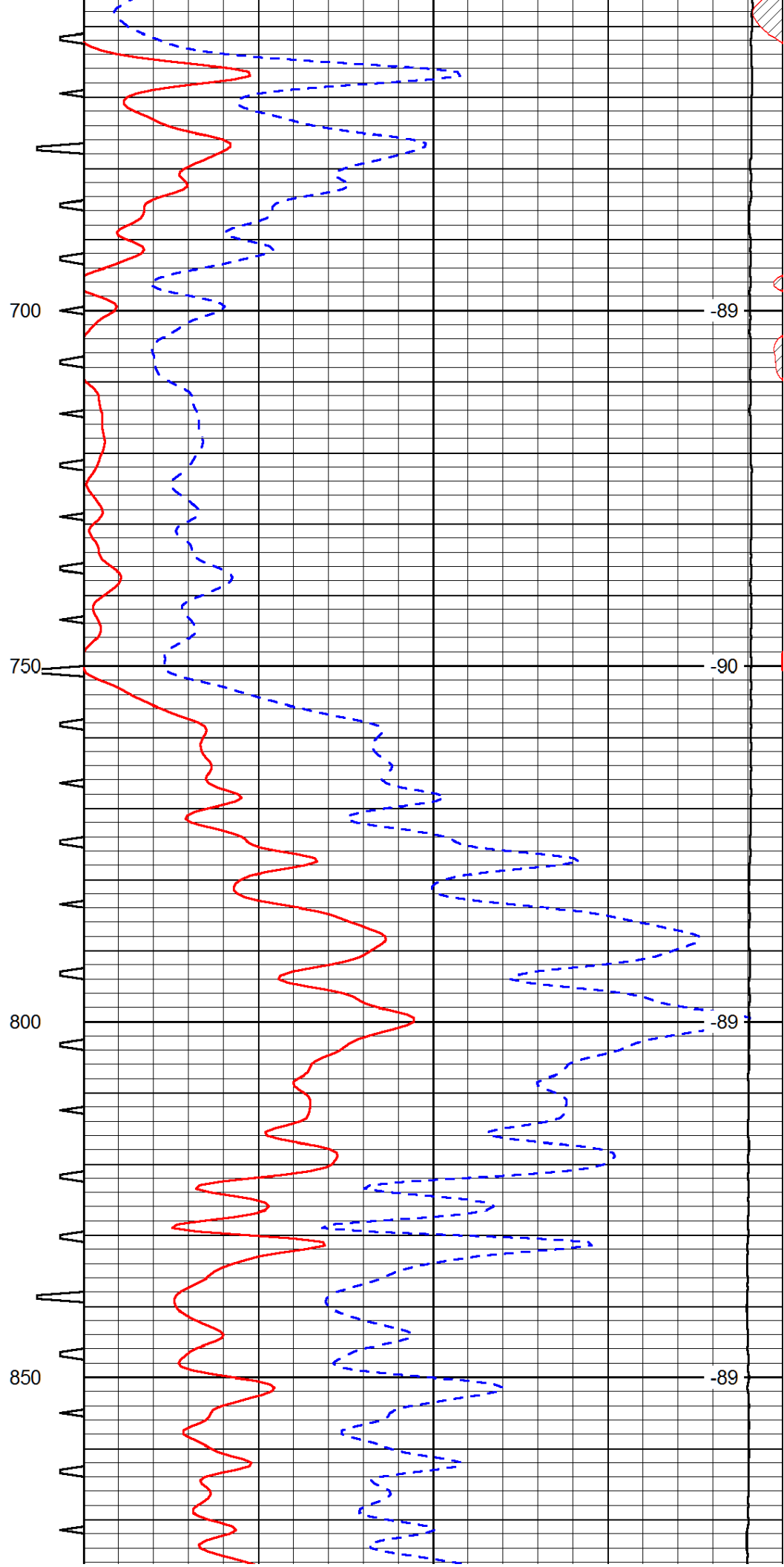
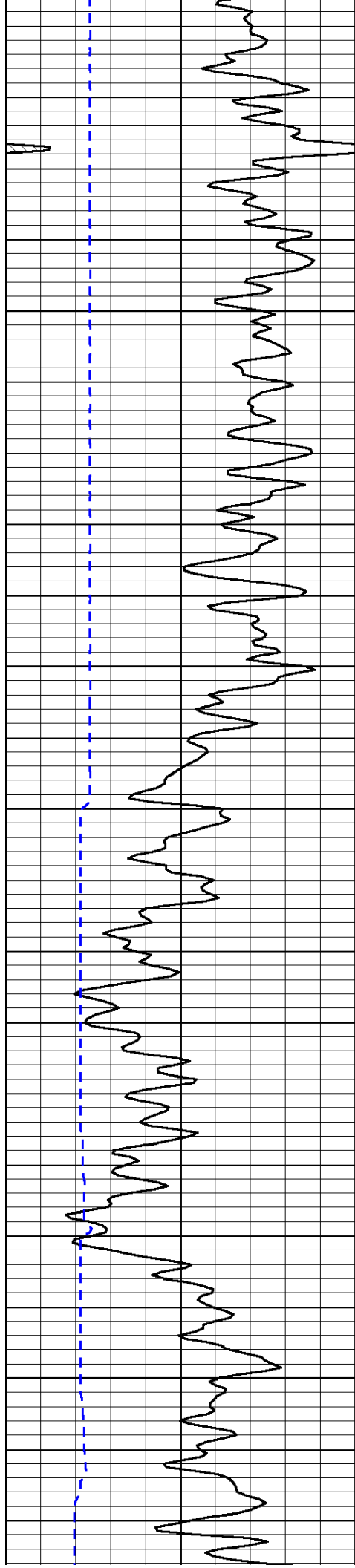
Scott City,
8 West to Dakota Rd, 1 North, 1 West, 5 3/4 North,
West into

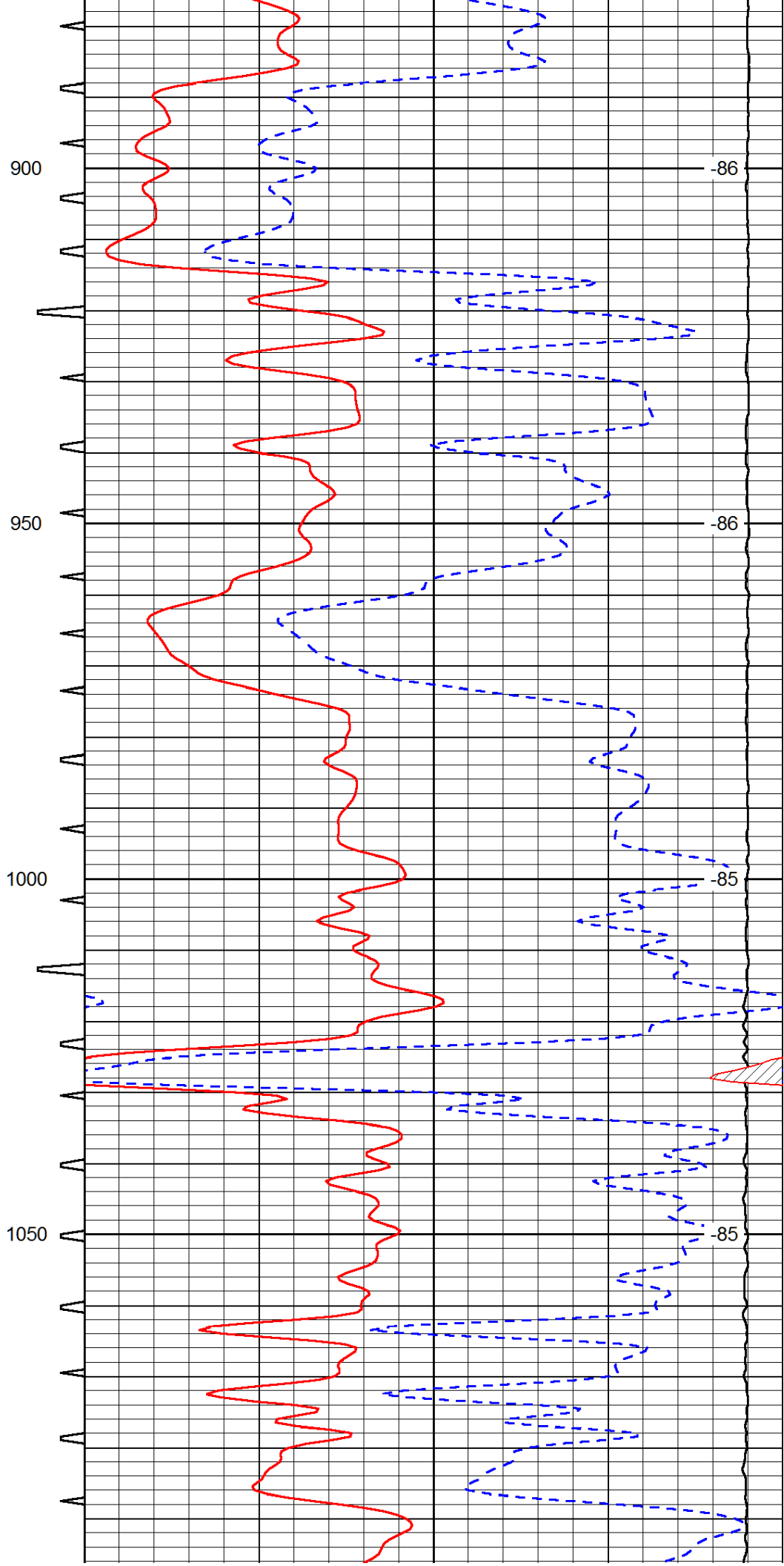
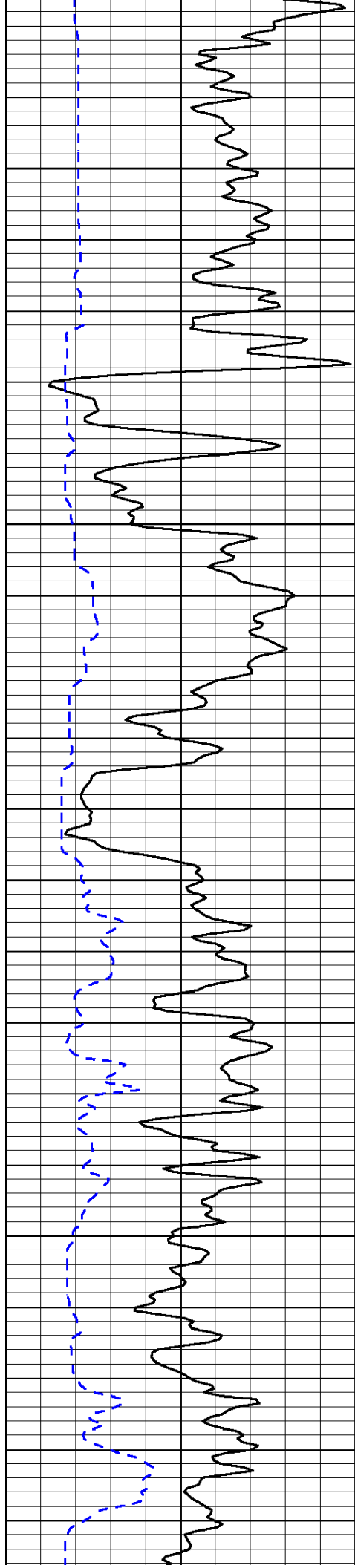
Database File: landmark_102413hd.db
Dataset Pathname: dil/lmstck
Presentation Format: sonic
Dataset Creation: Thu Oct 24 08:45:41 2013
Charted by: Depth in Feet scaled 1:240

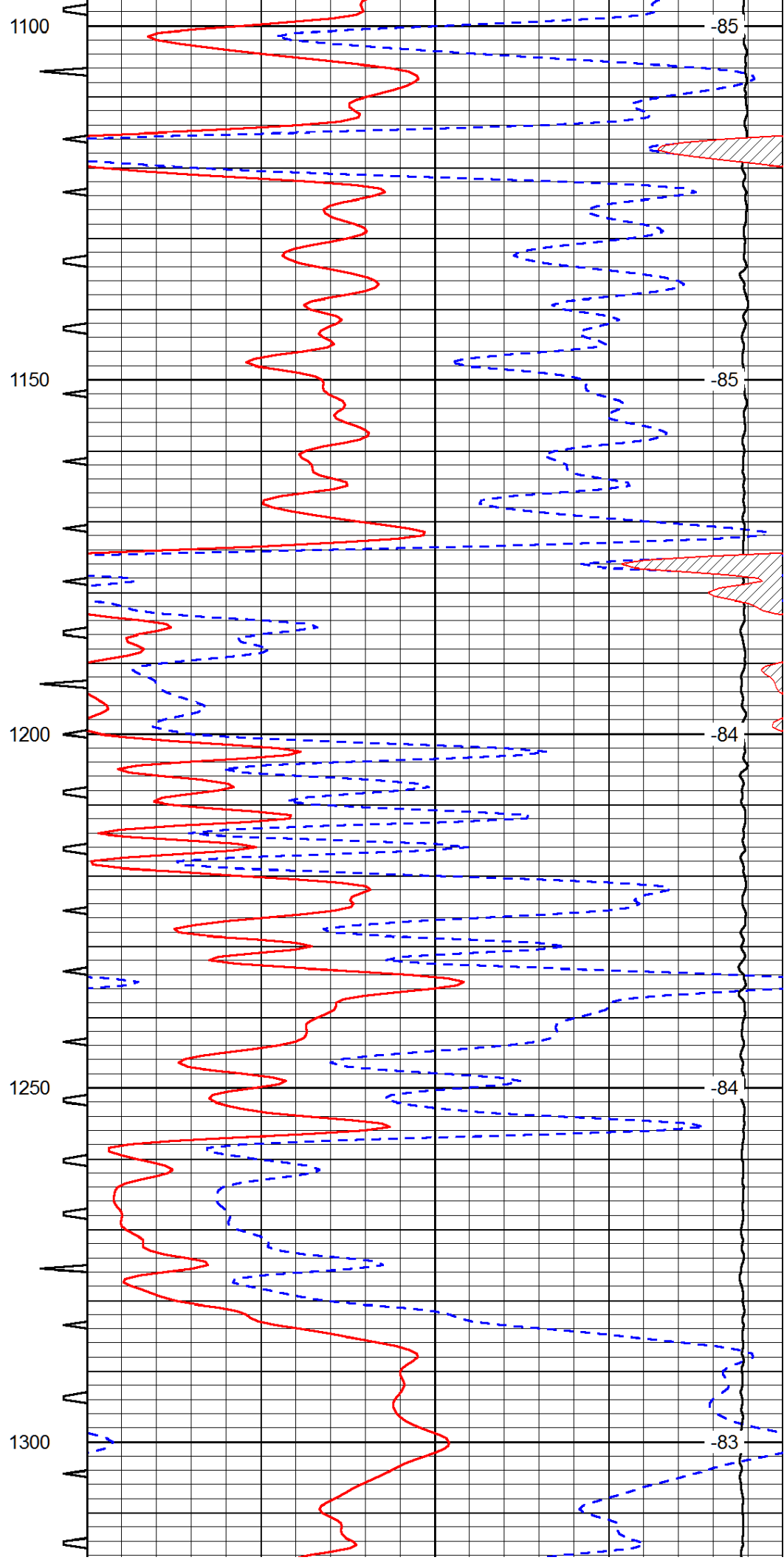
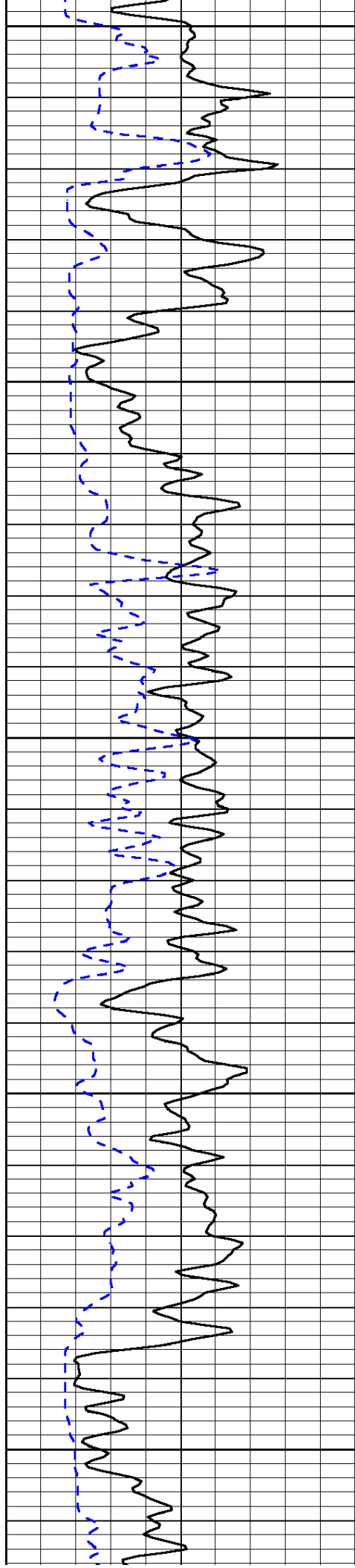
0	Gamma Ray (GAPI)	150	Sonic Int	140	Delta Time (usec/ft) (usec/ft)	40
150	Gamma Ray (GAPI)	300	5 (msec) 0	30	Sonic Porosity (pu)	-10
6	dCAL (in)	16		15000	LTEN (lb) (lb)	0
						LSPD (ft/min)

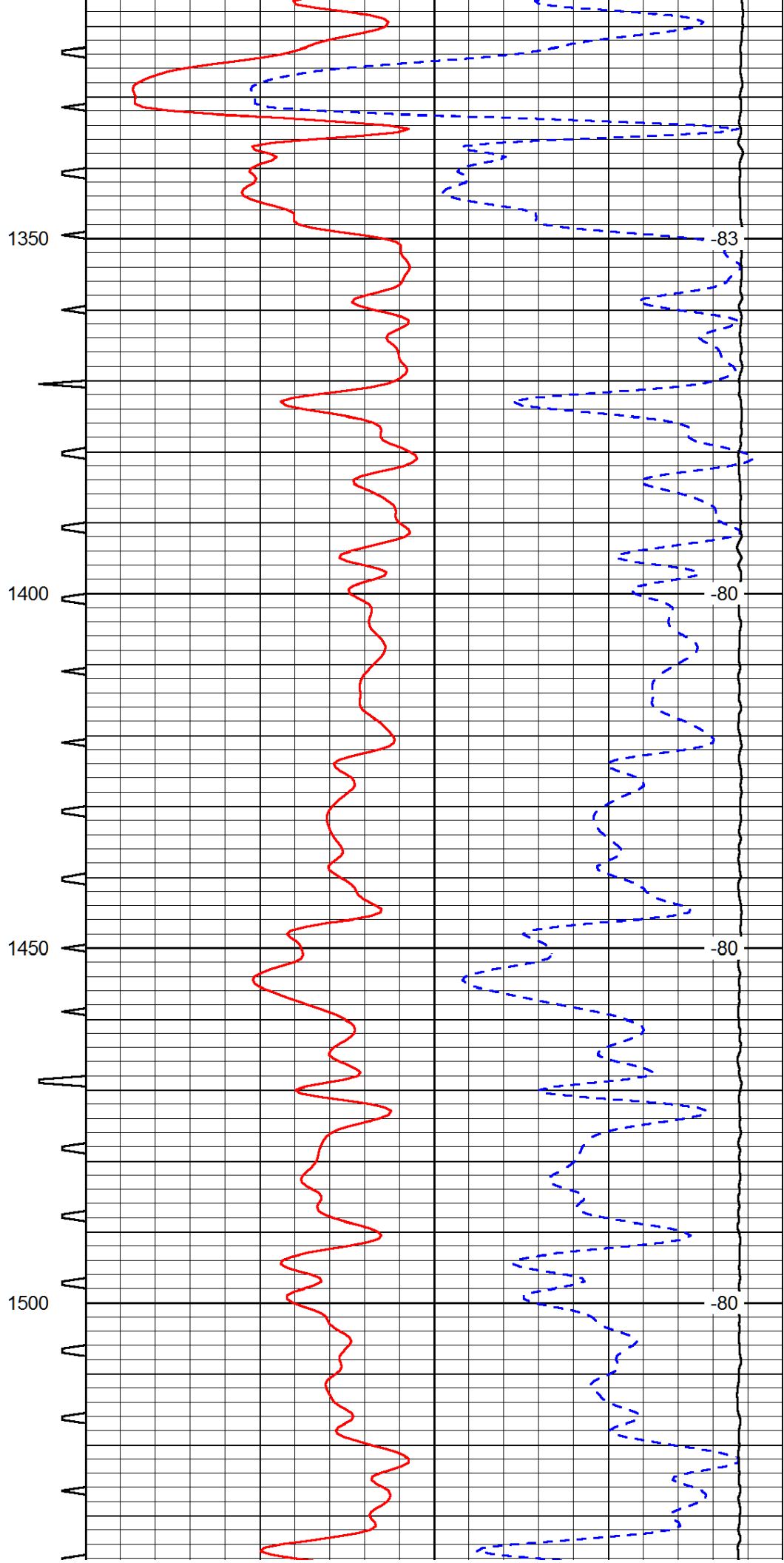
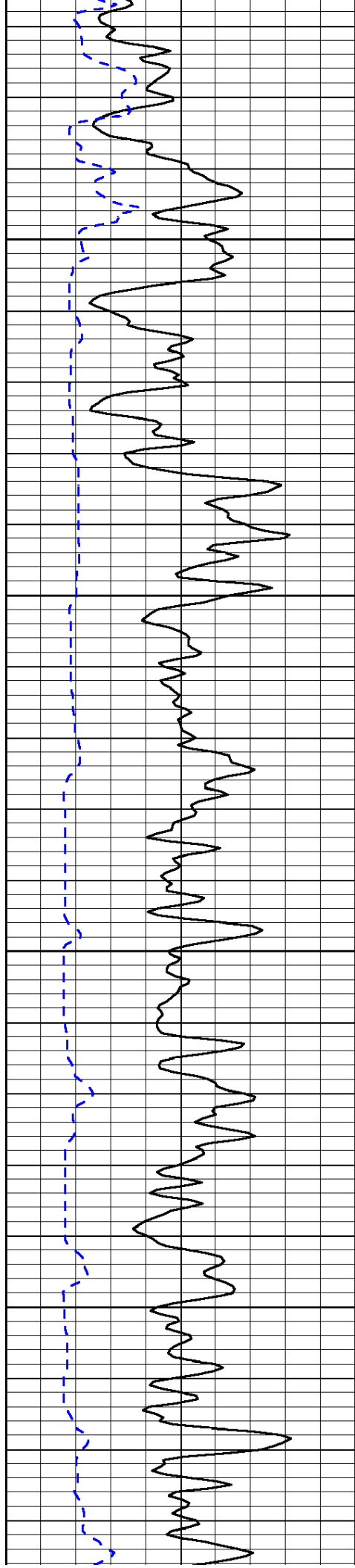


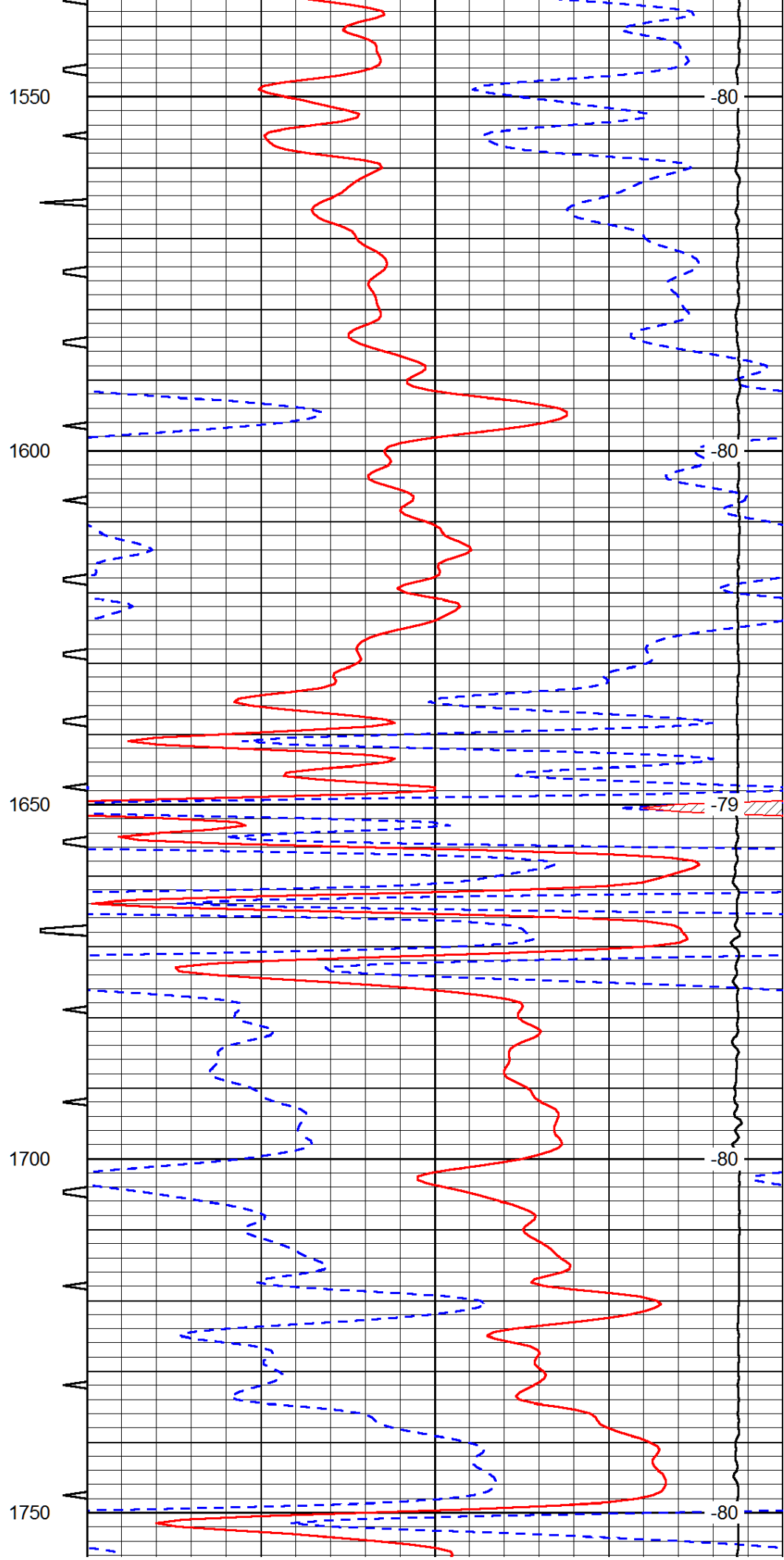
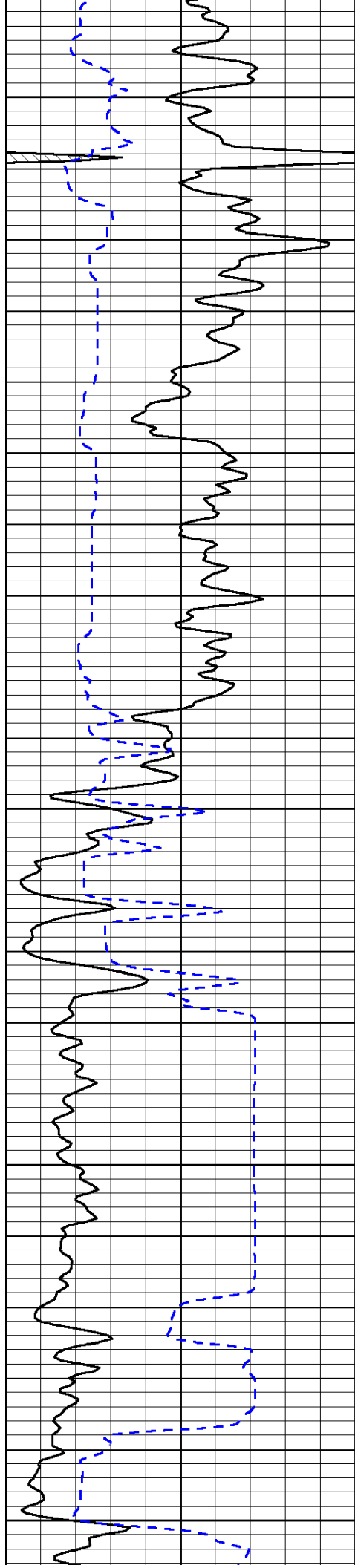


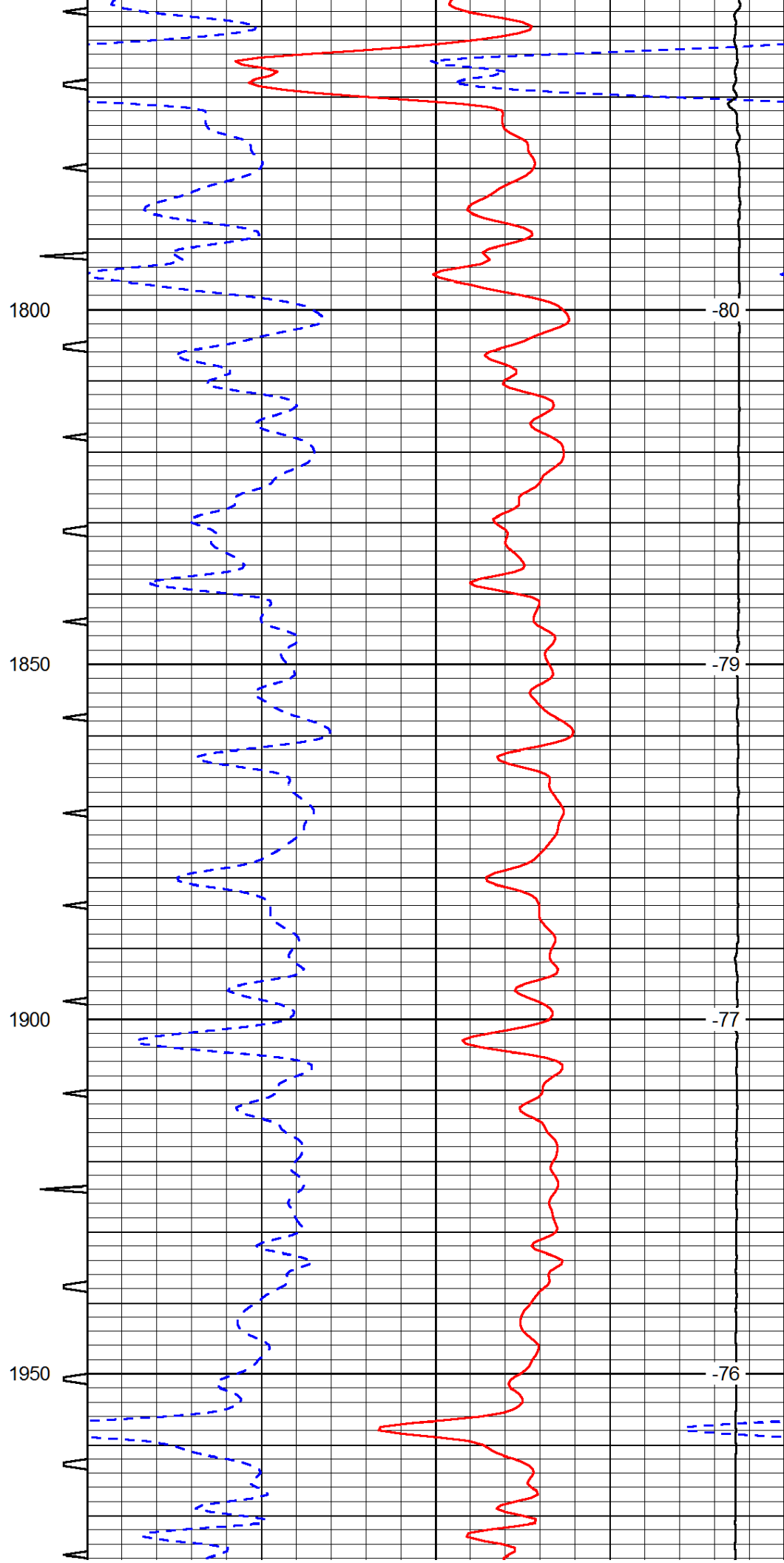
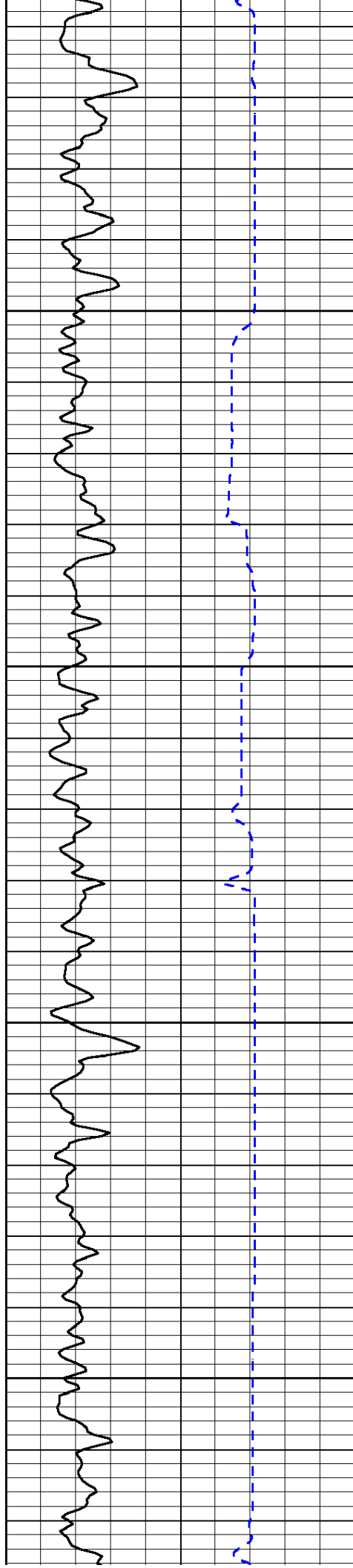


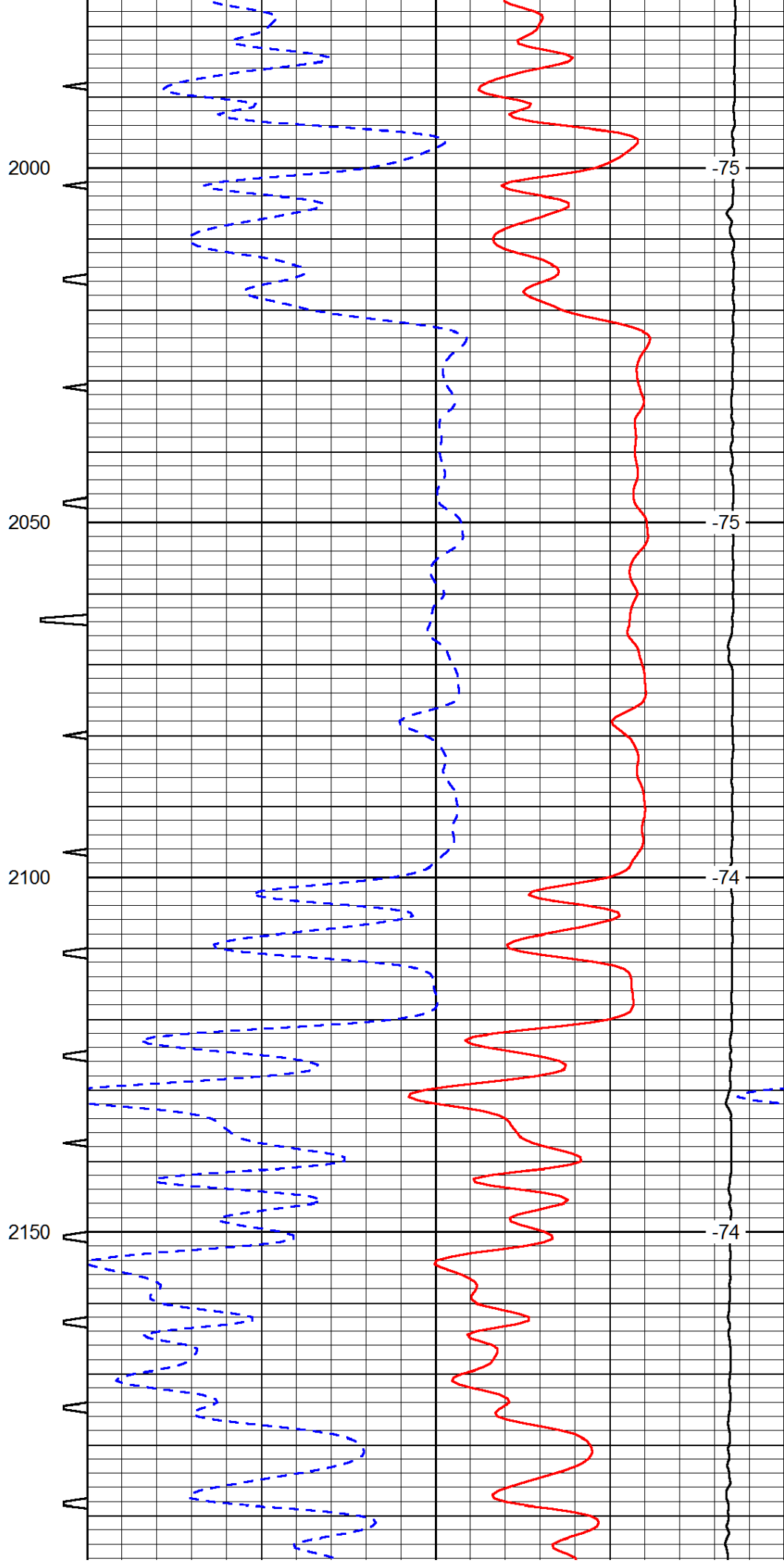
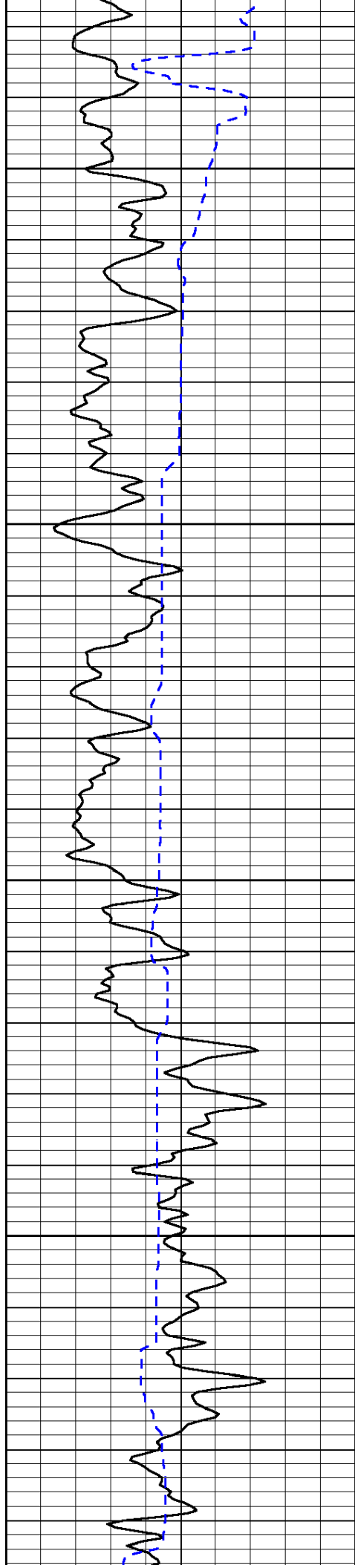


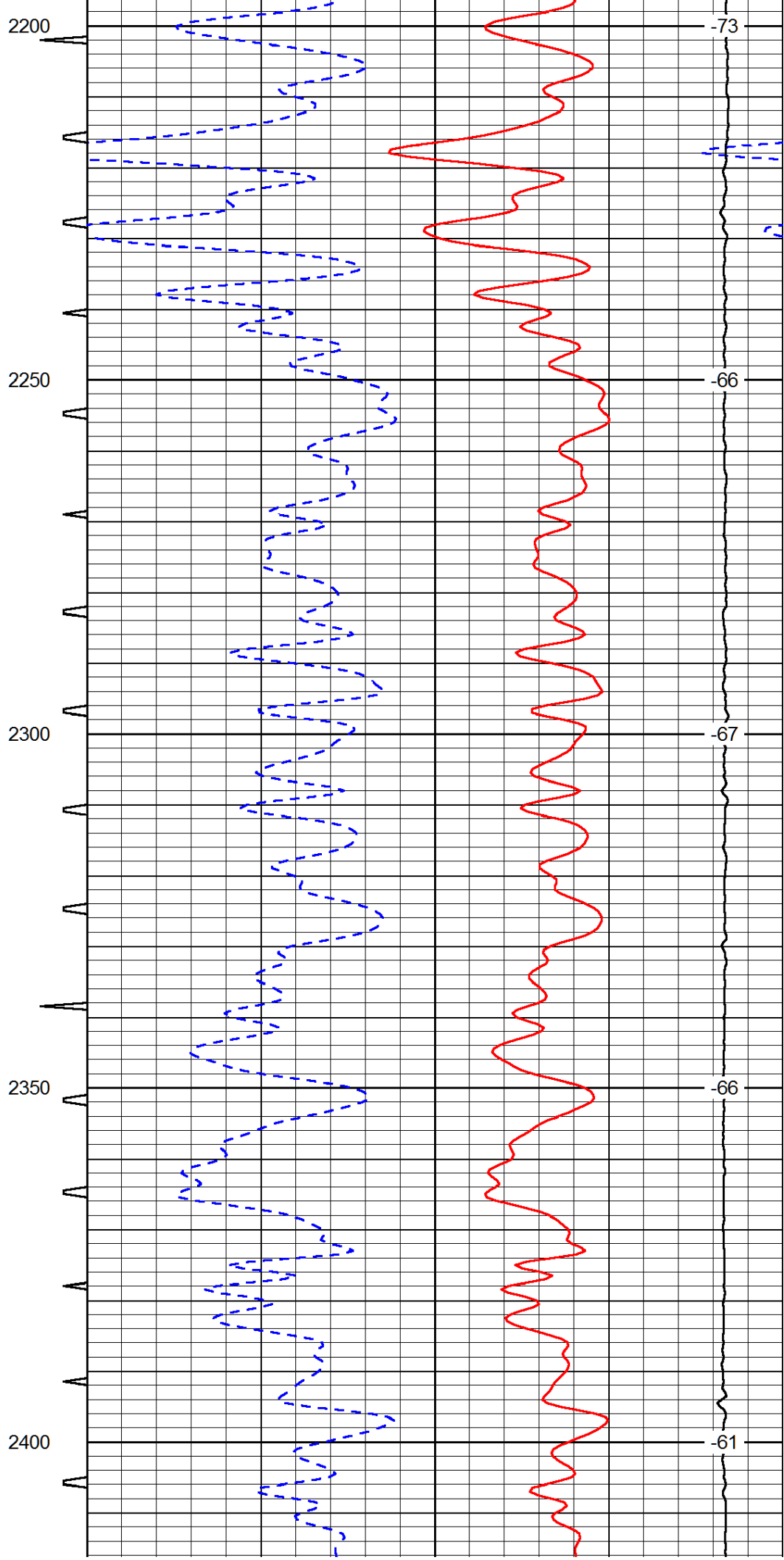
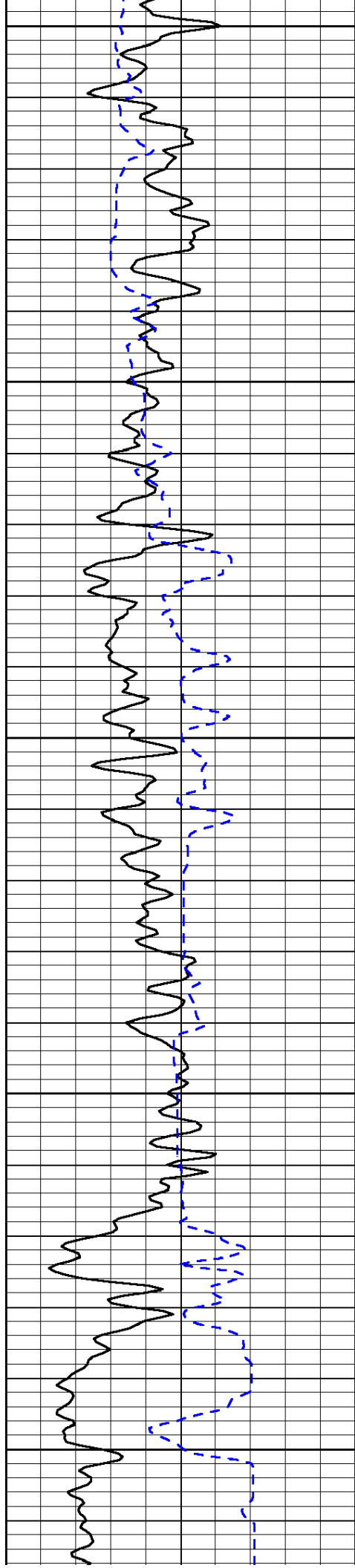


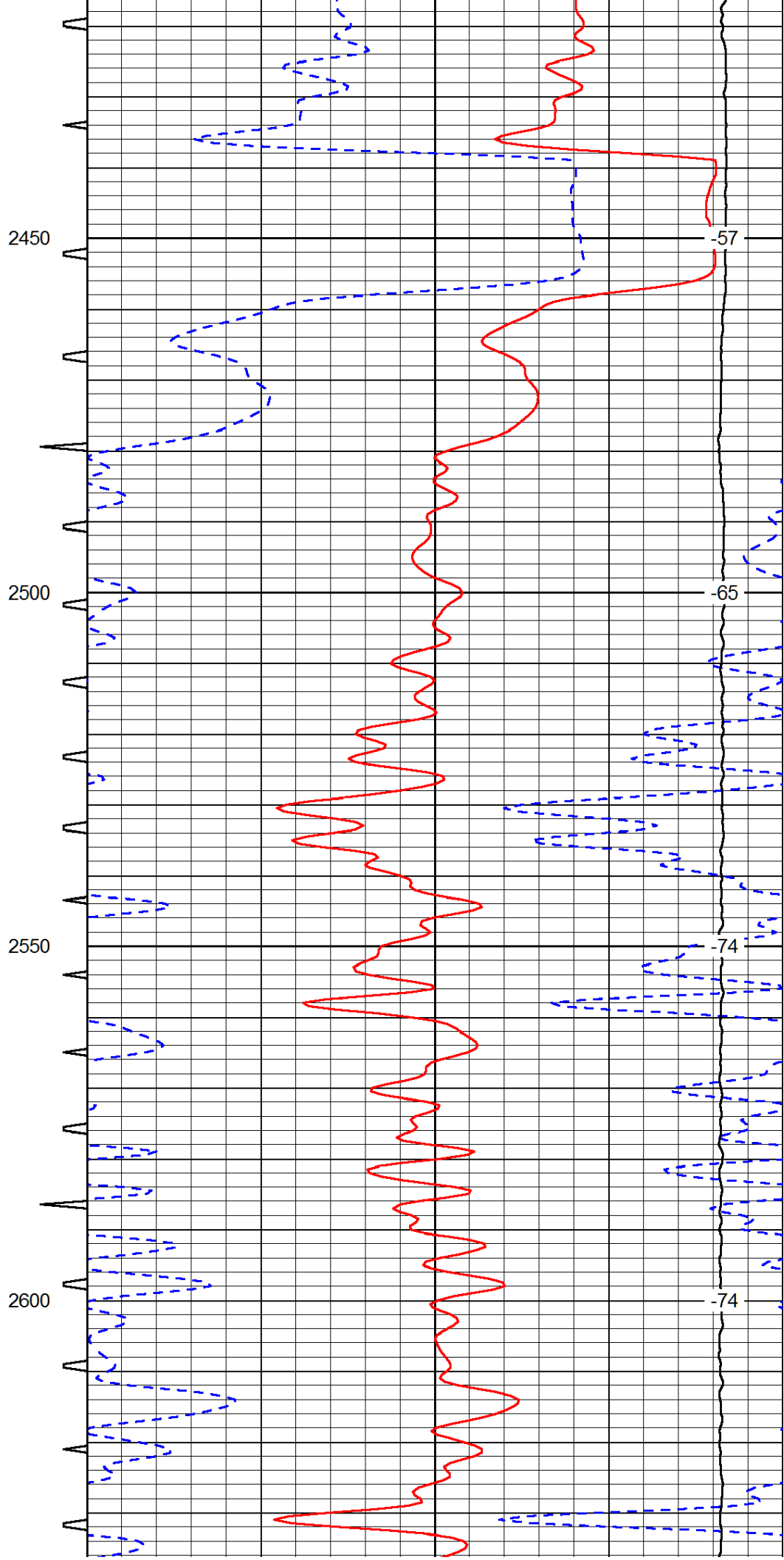
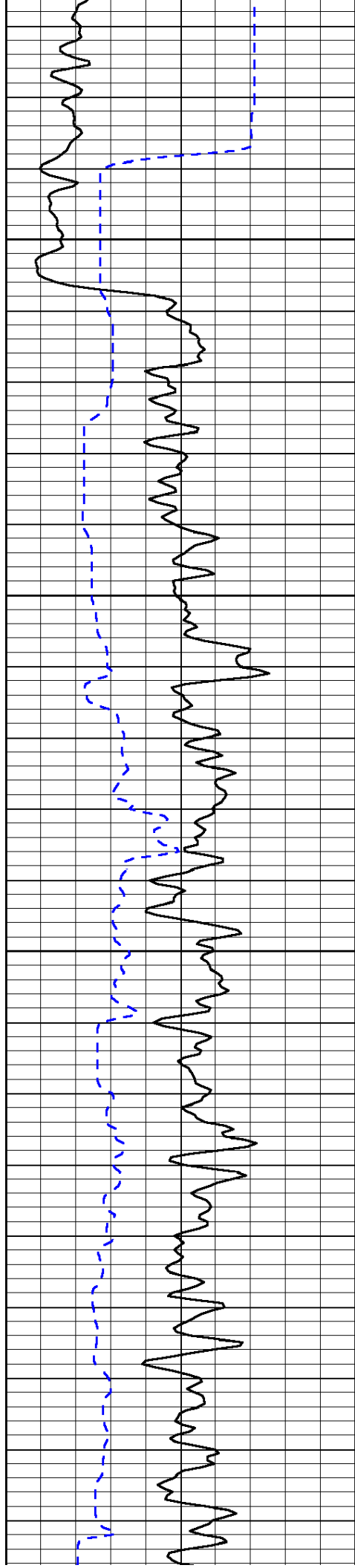


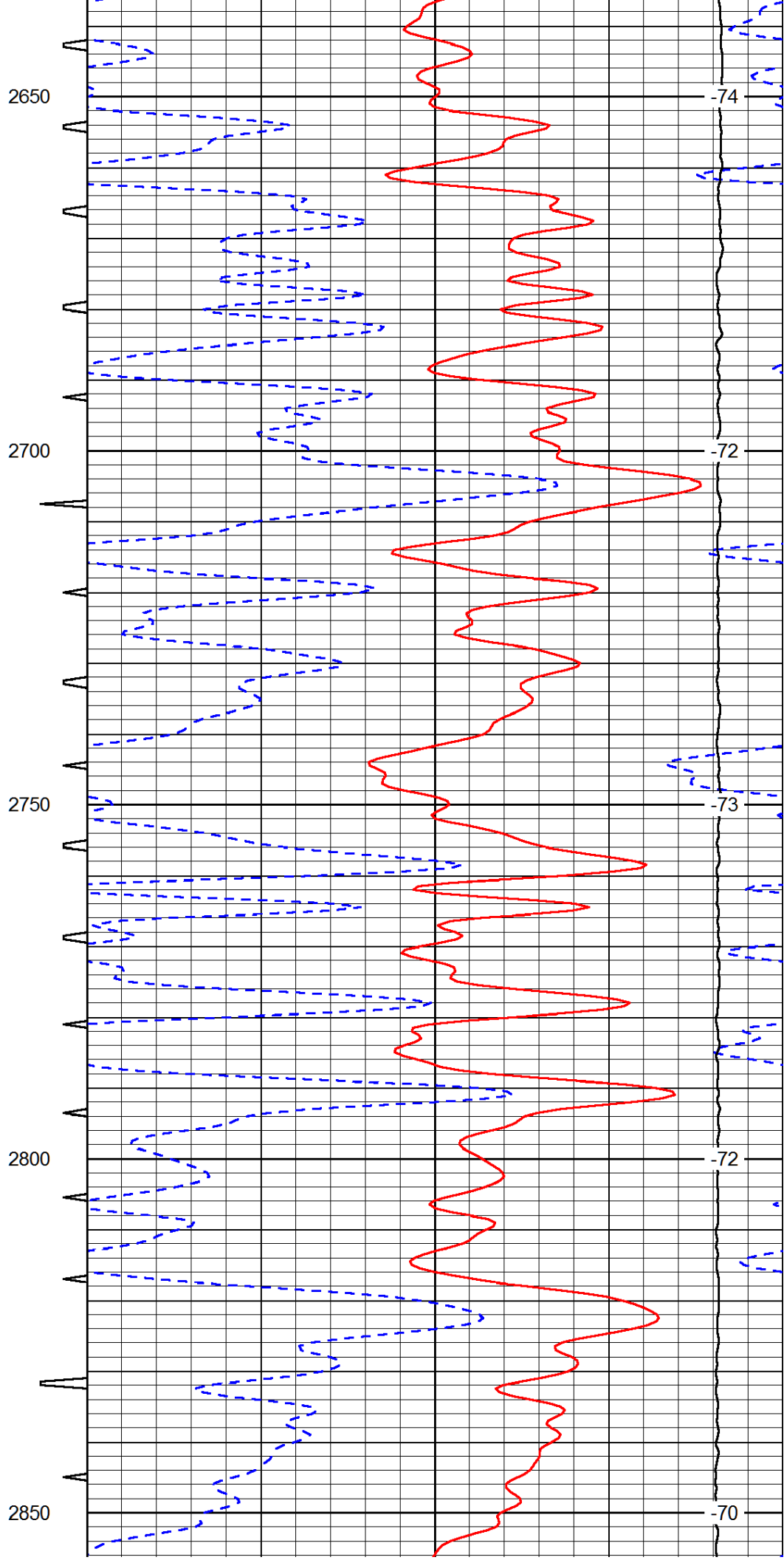
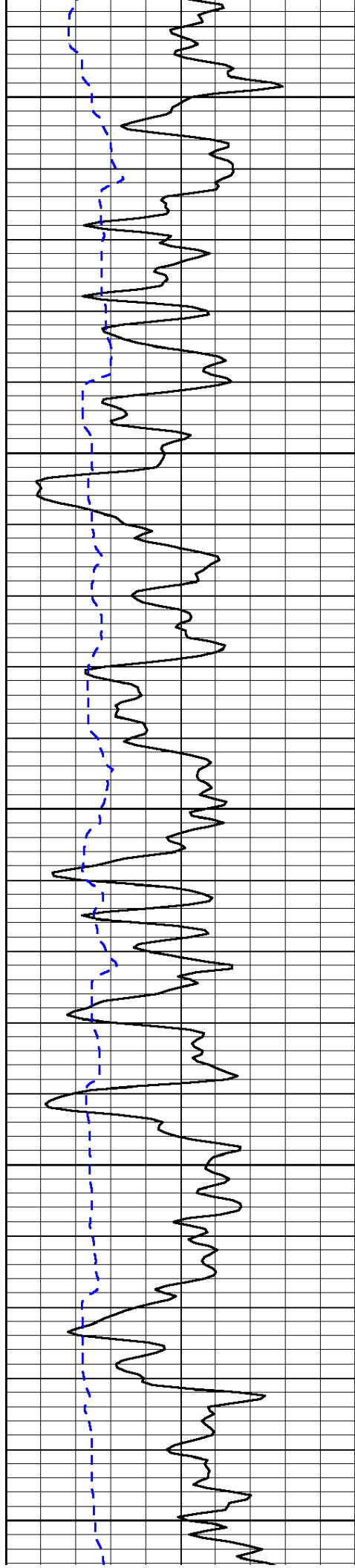


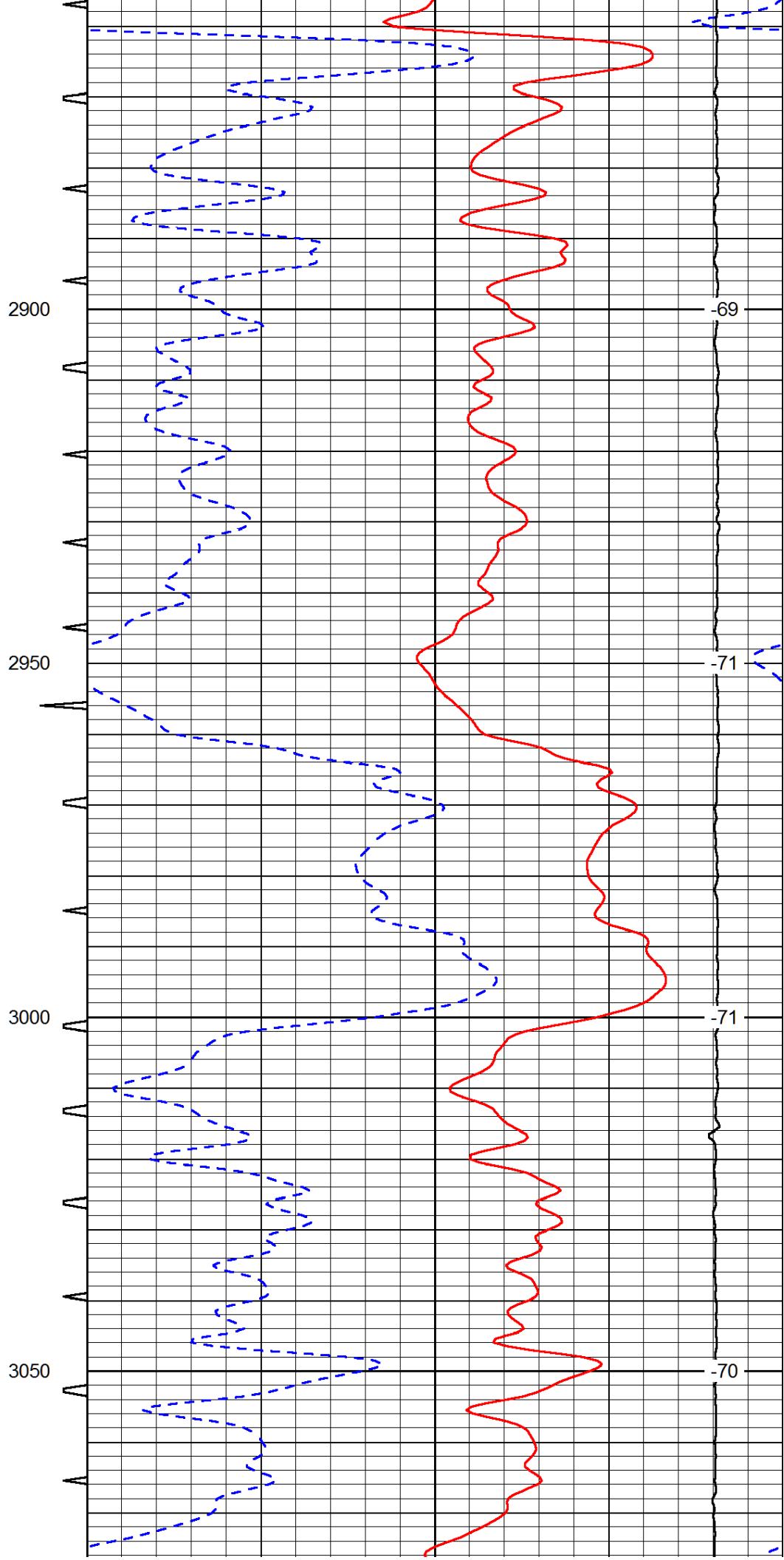
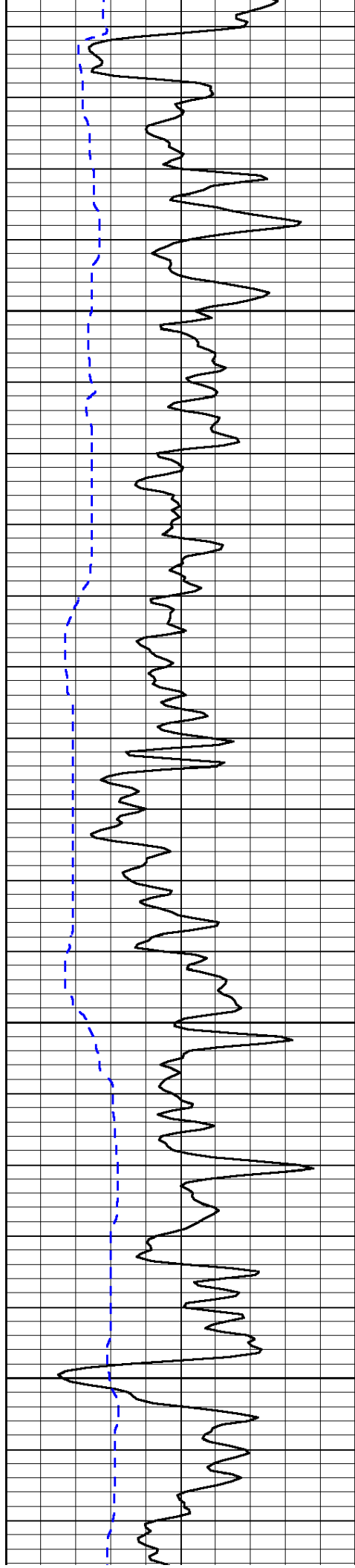


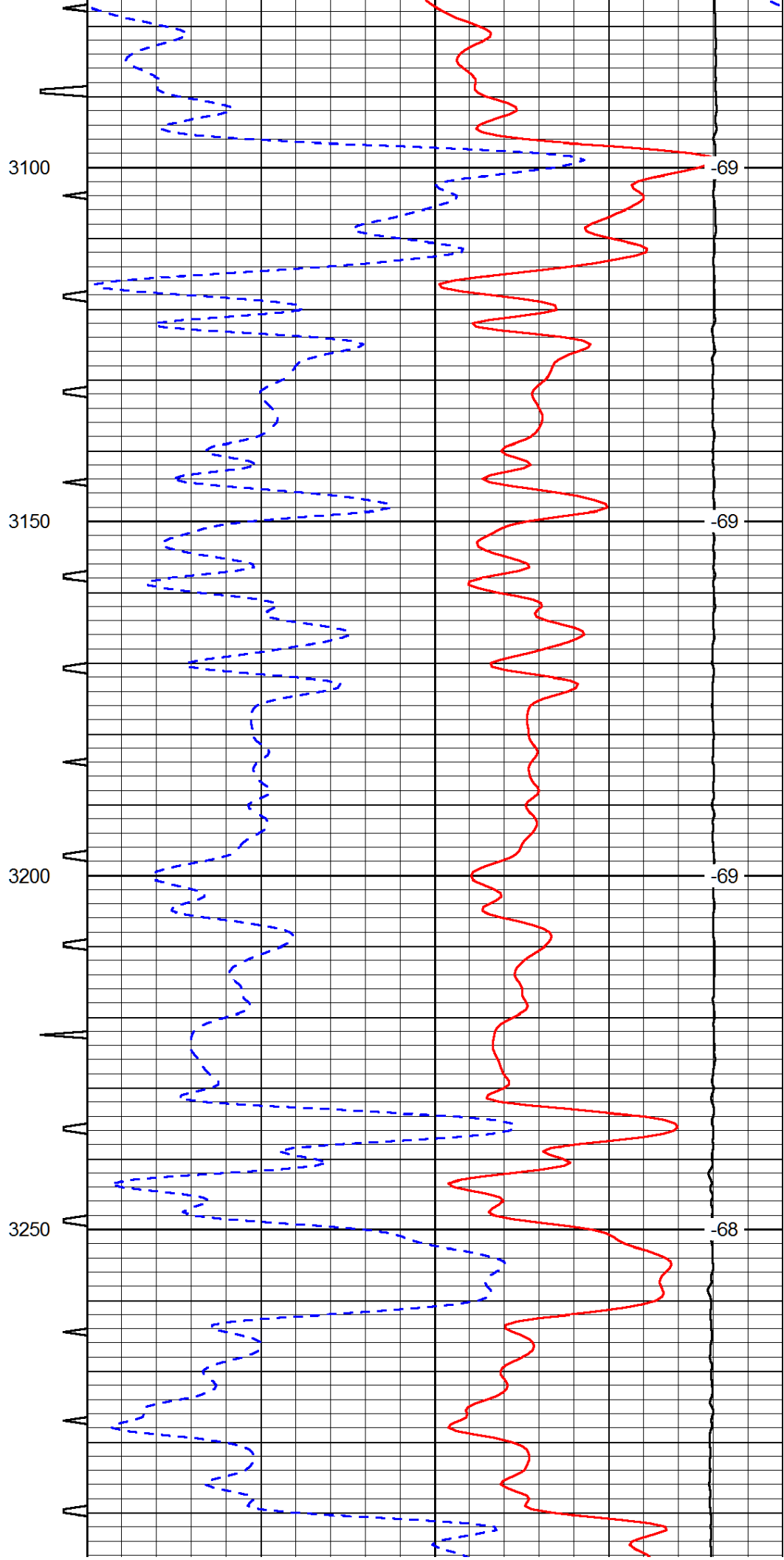
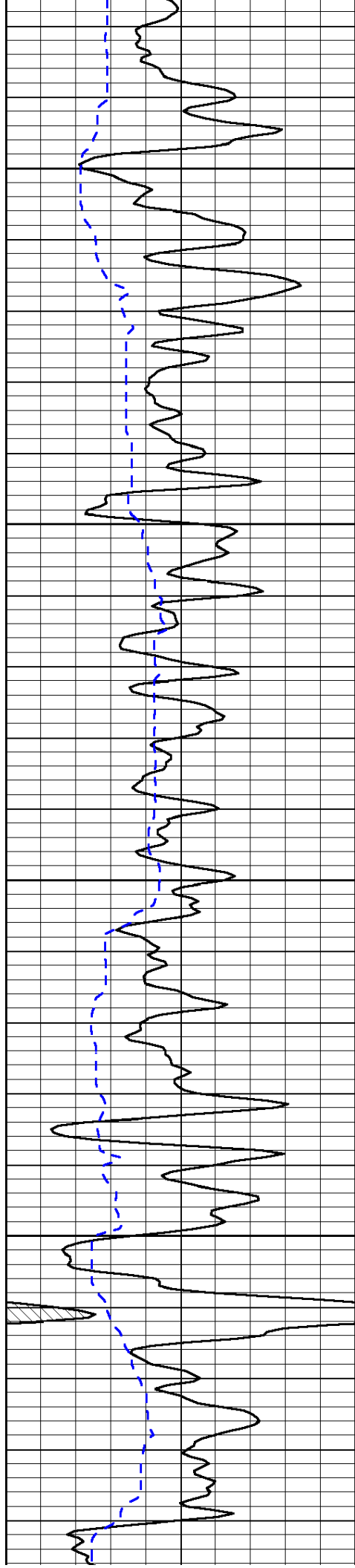


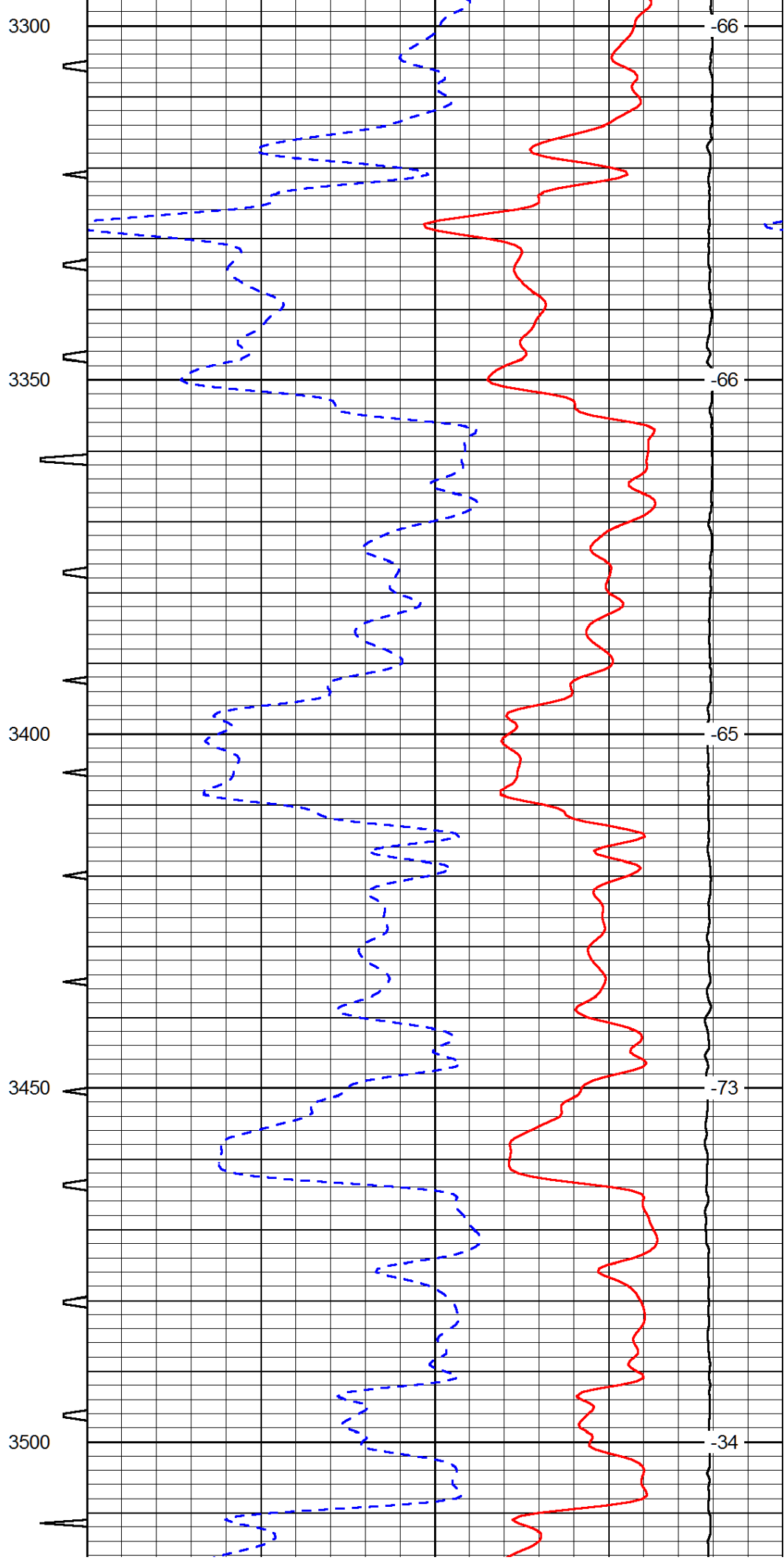
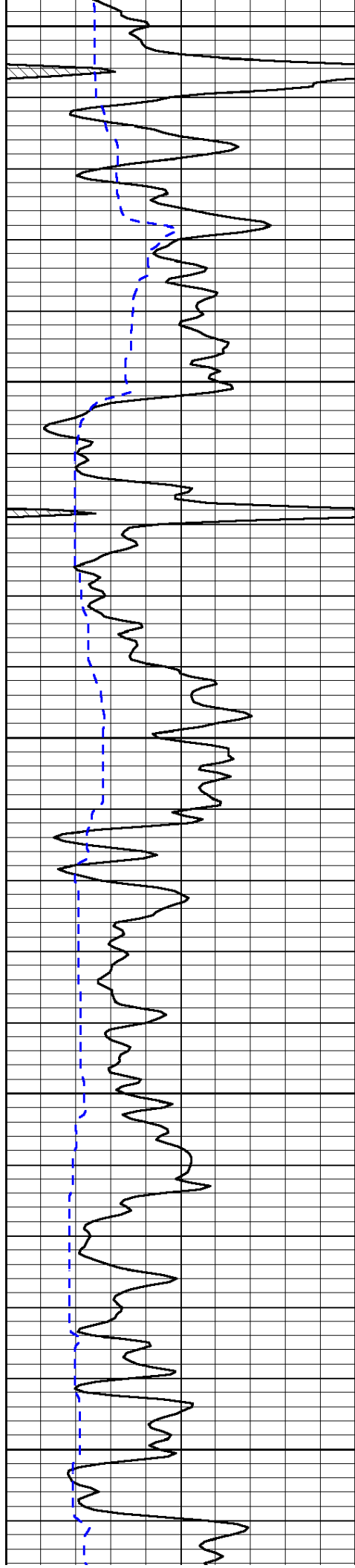


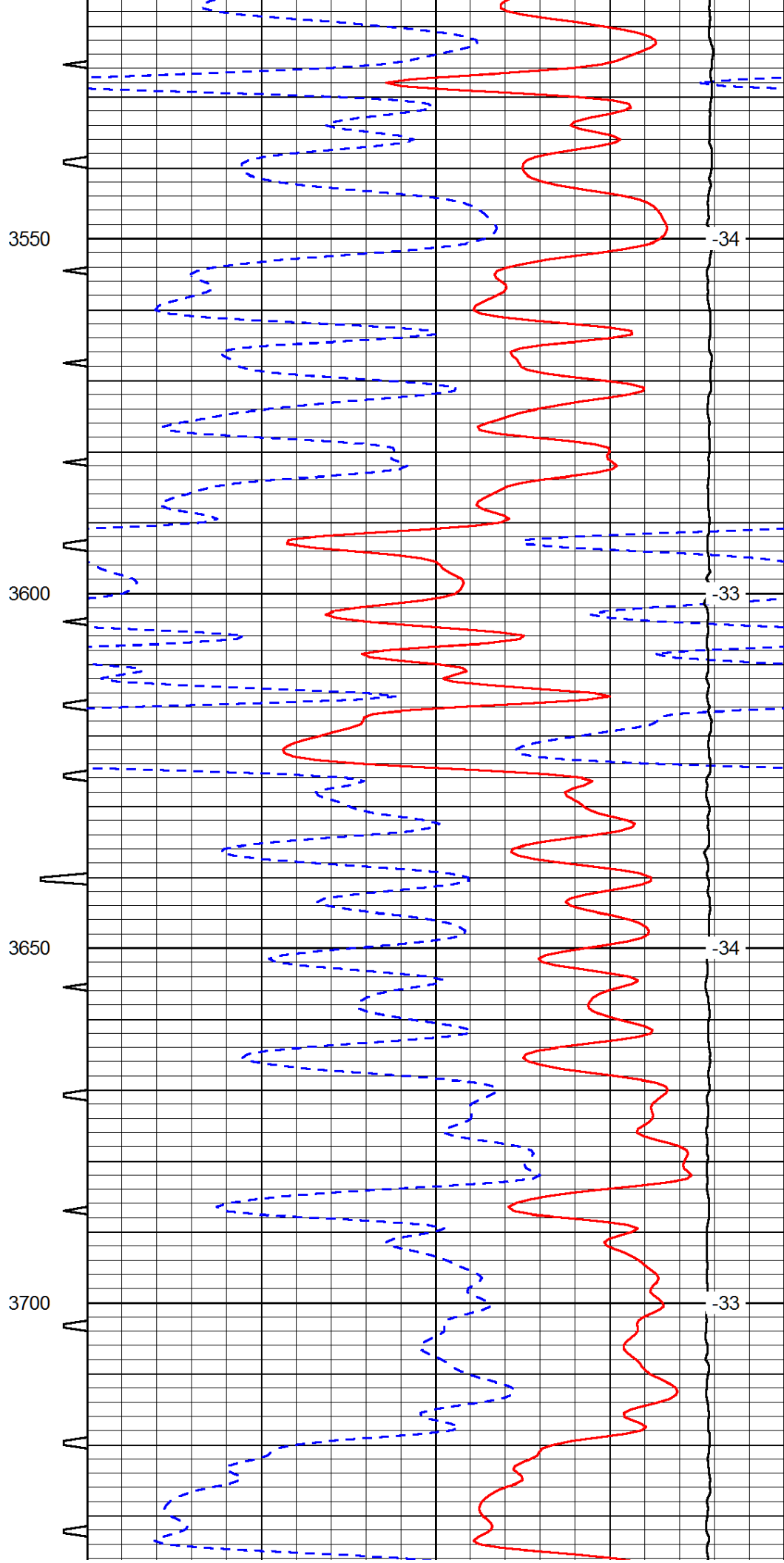
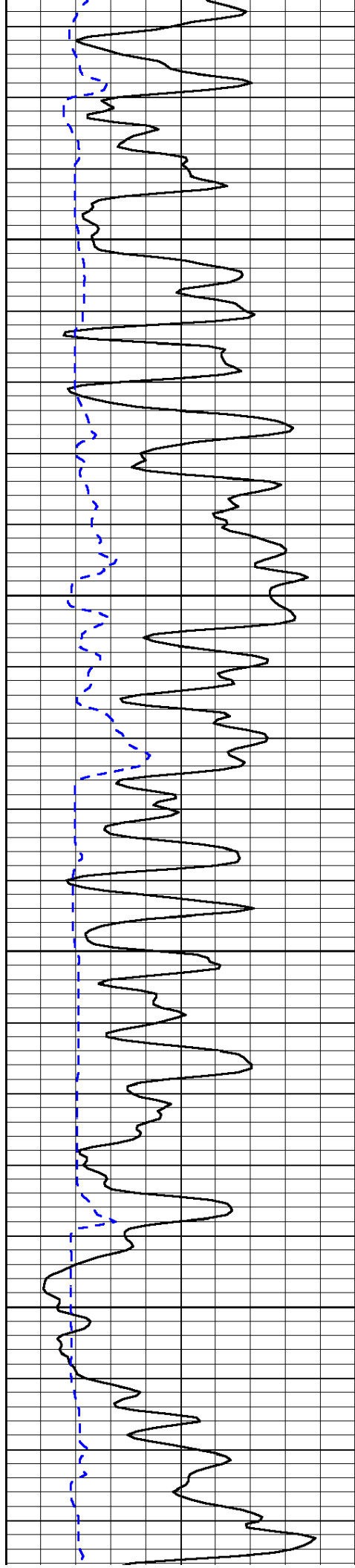


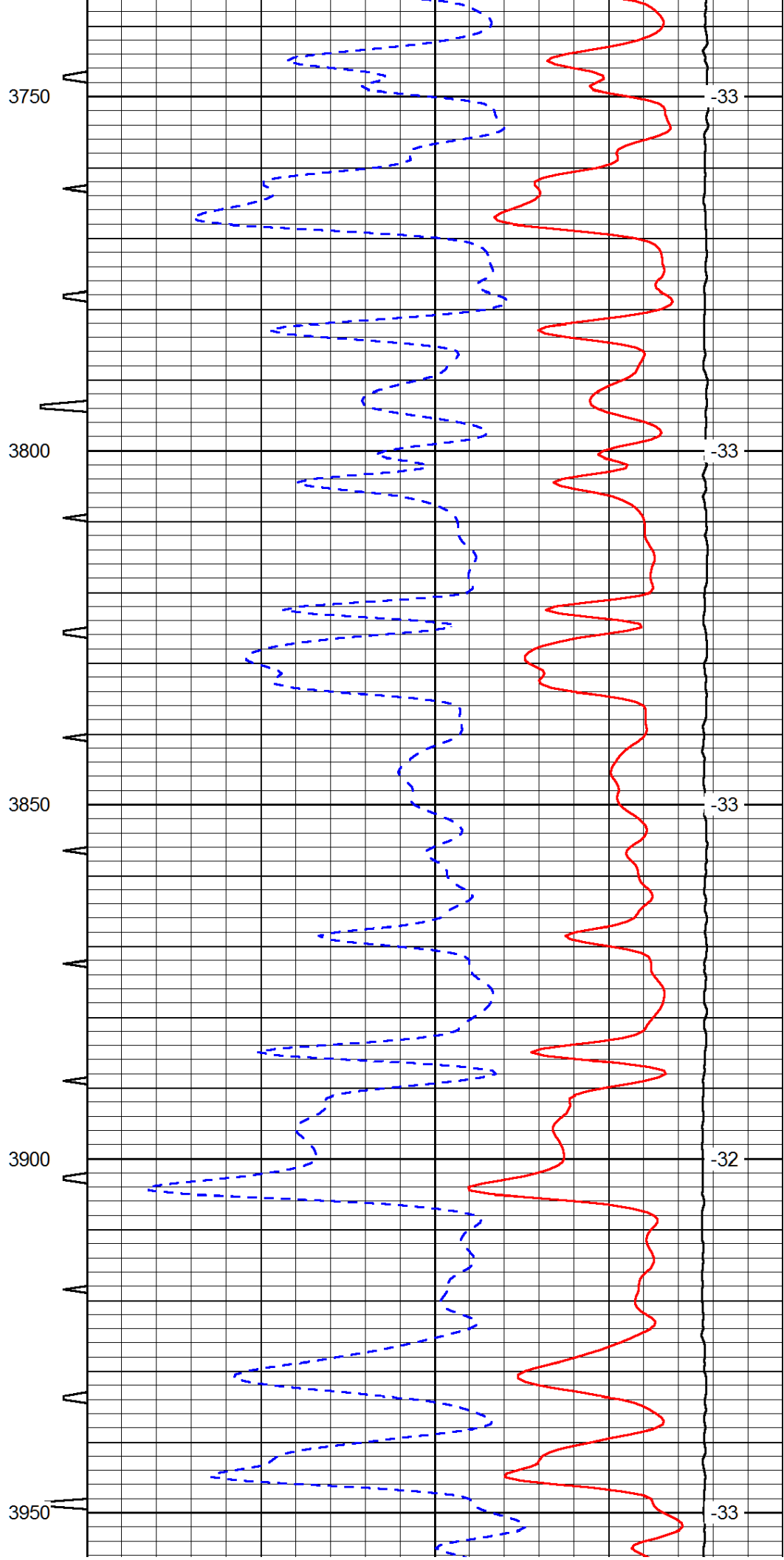
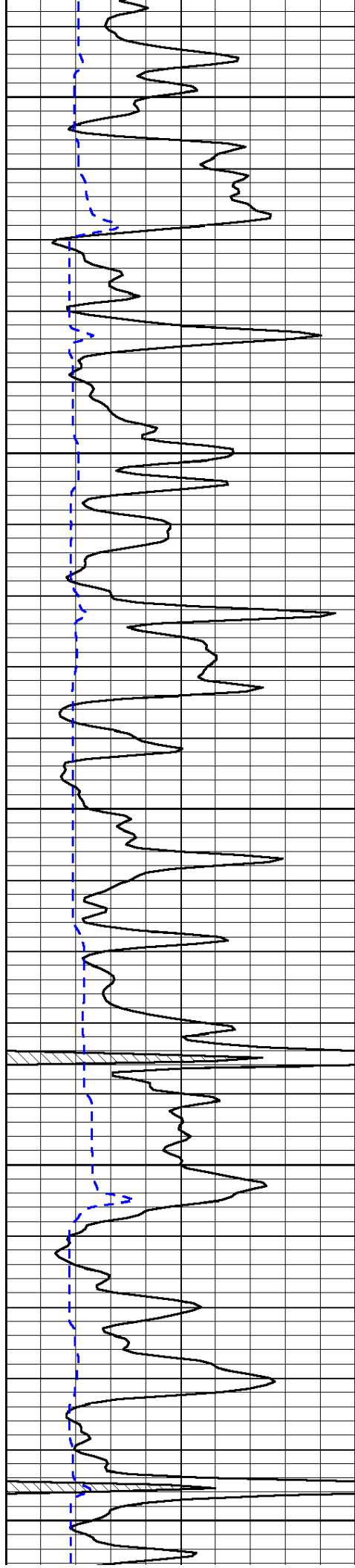


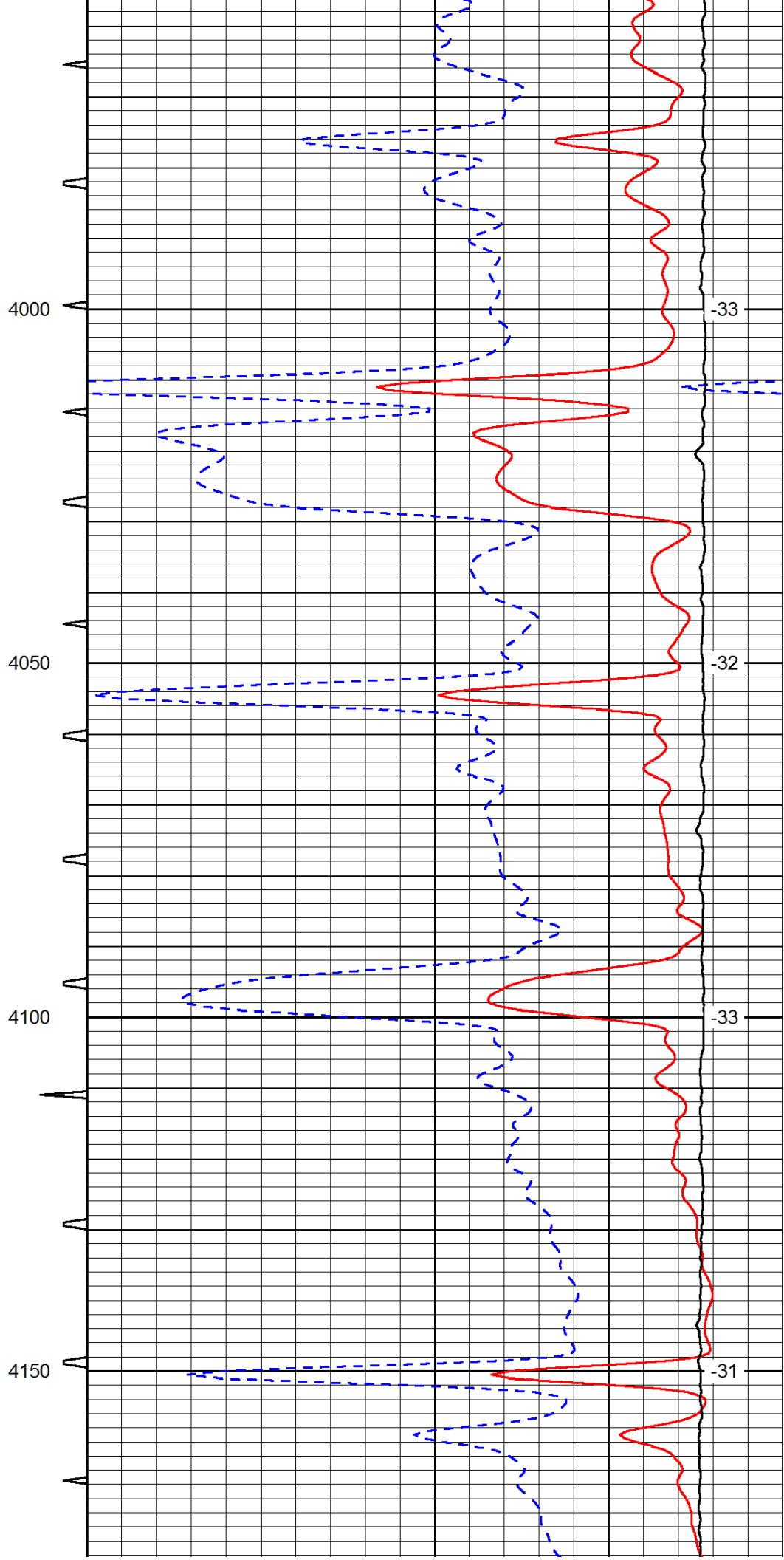
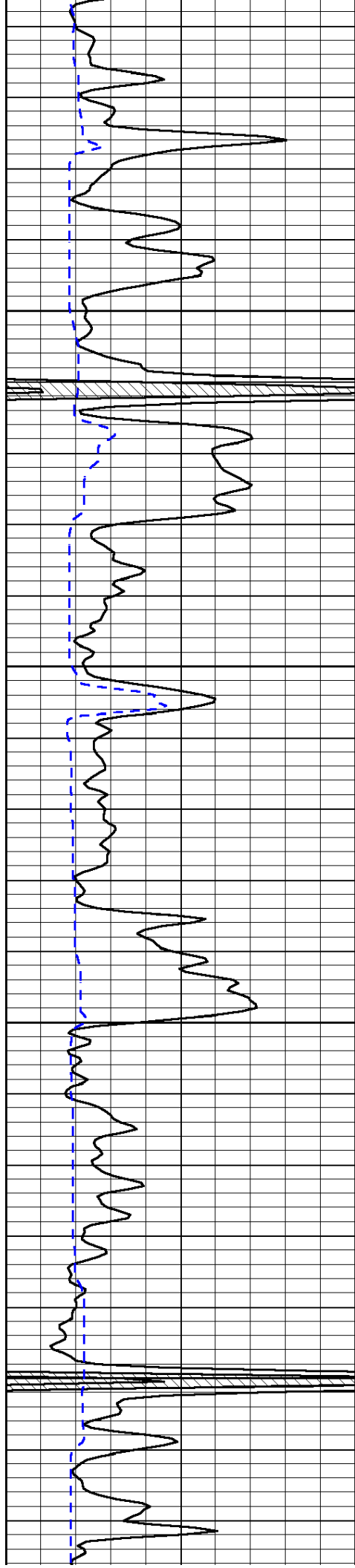


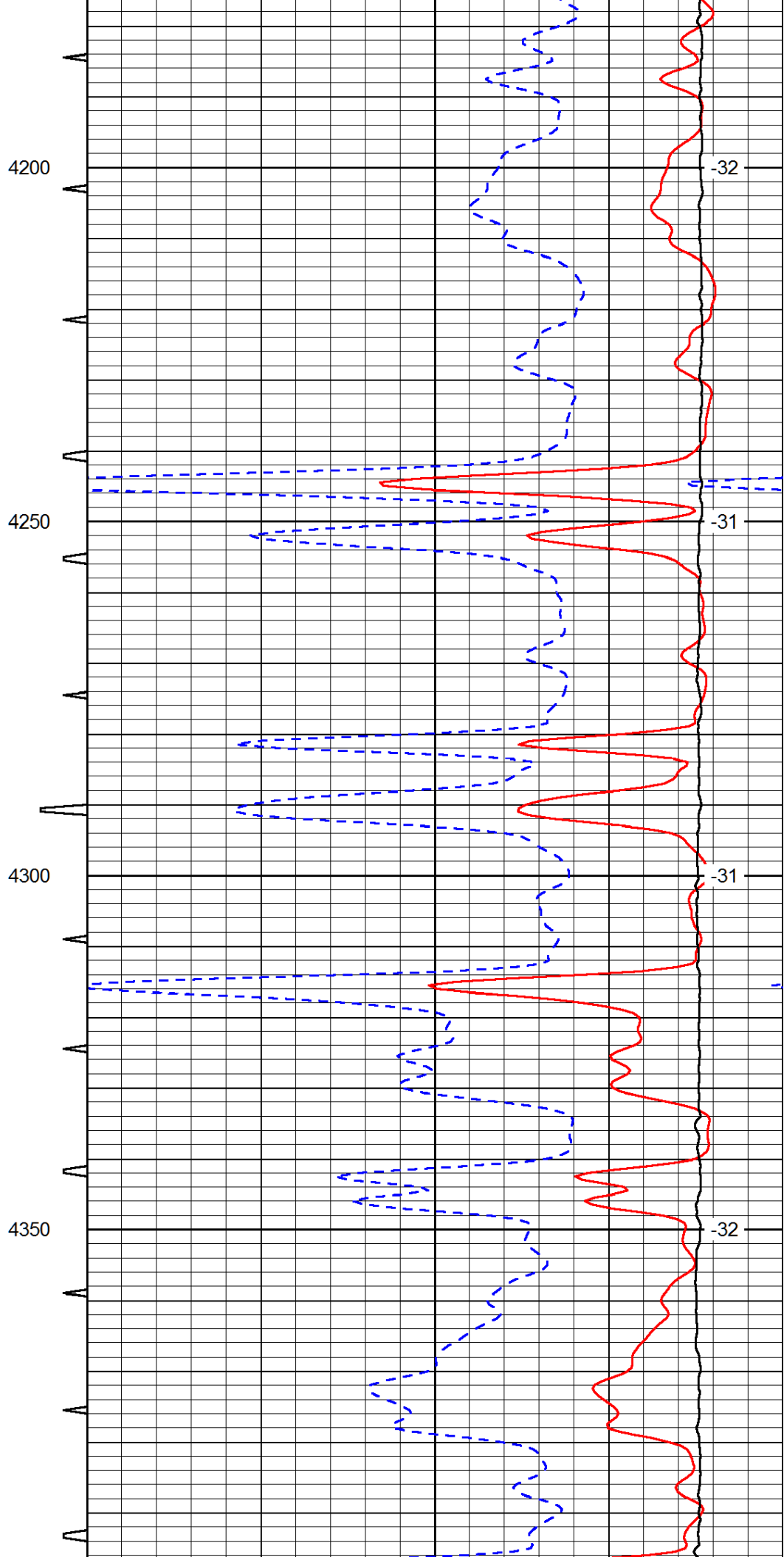
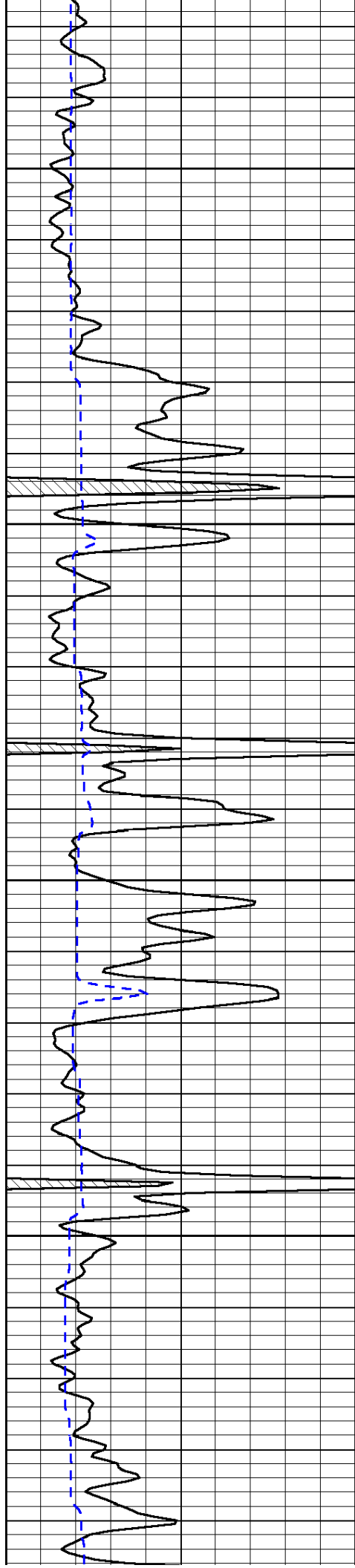


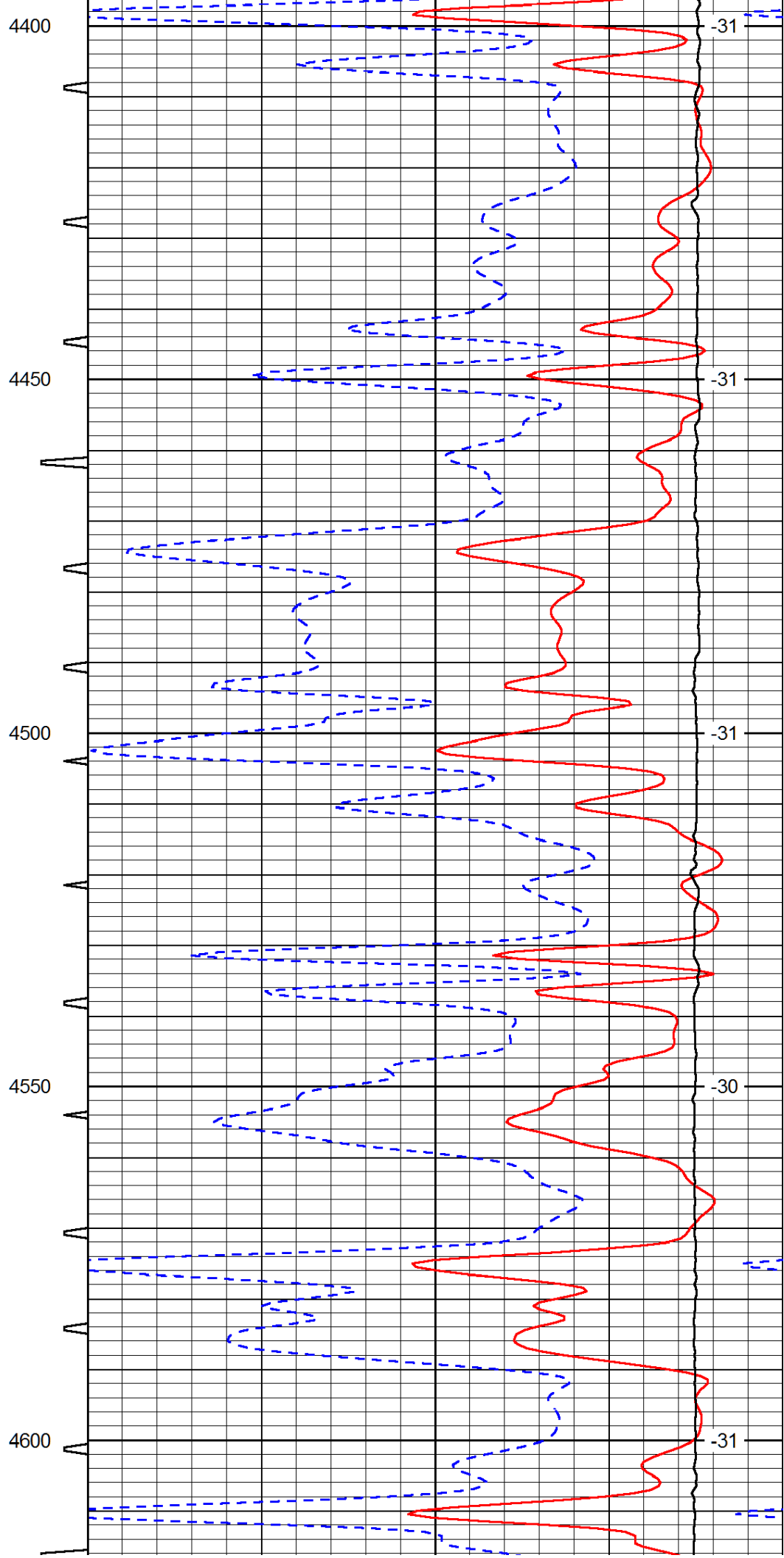
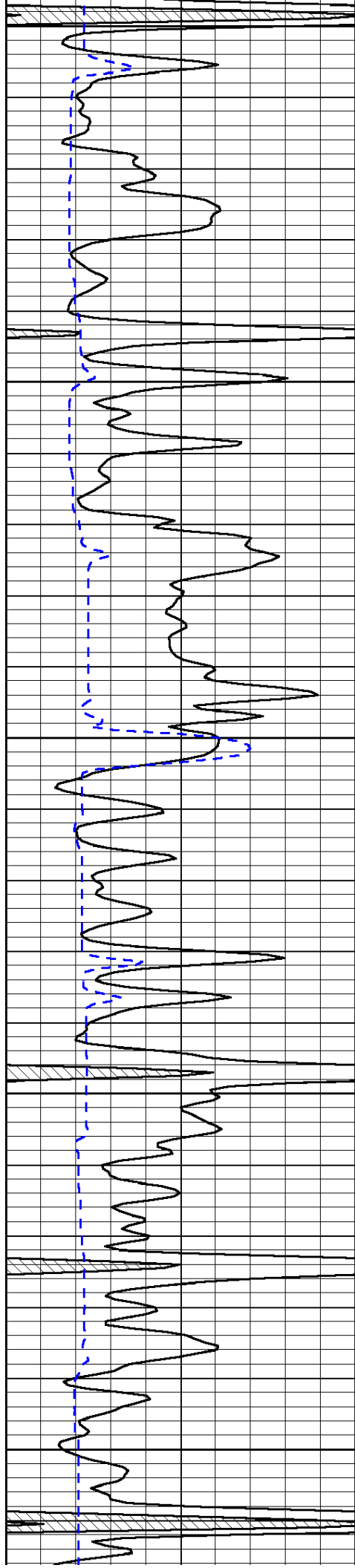


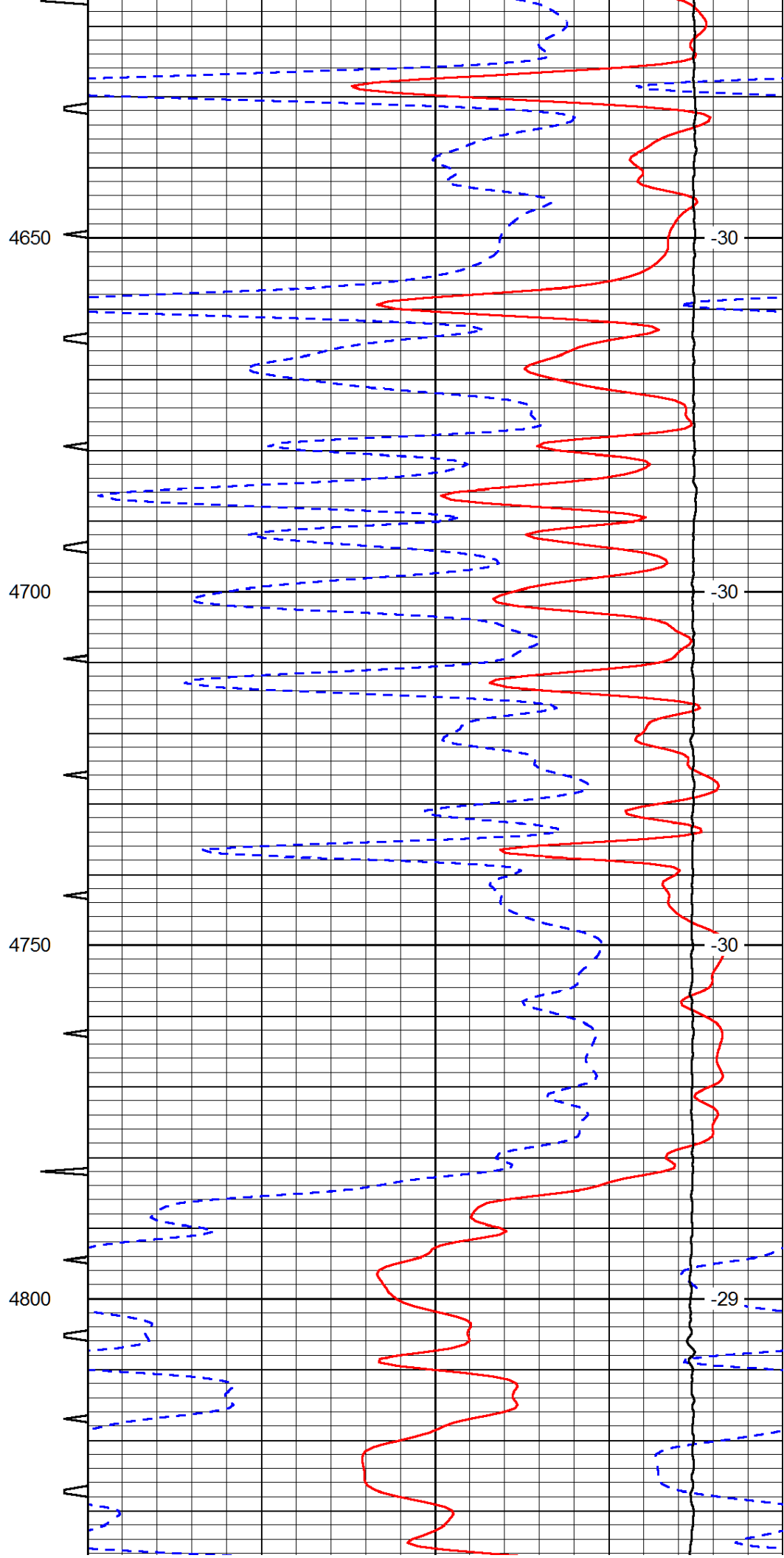
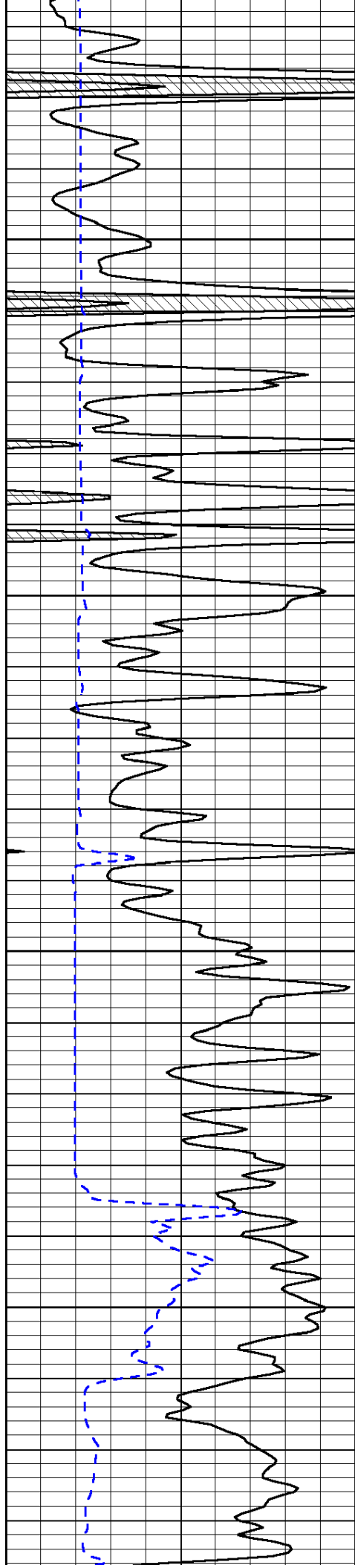


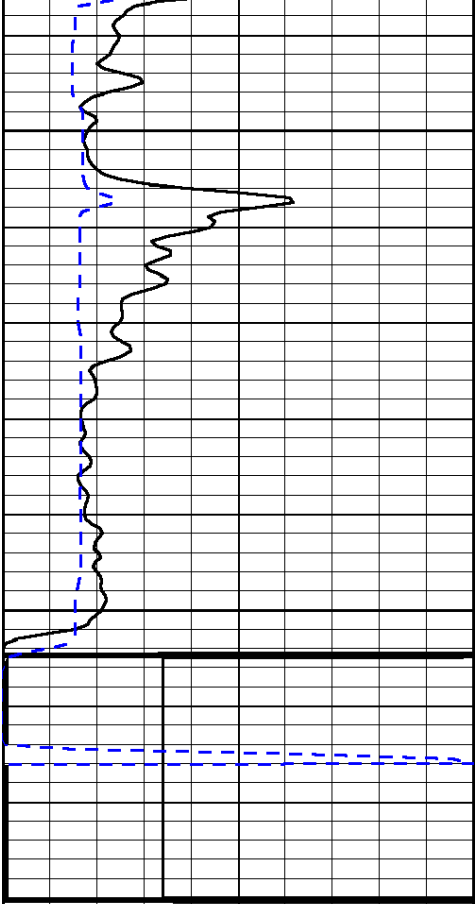




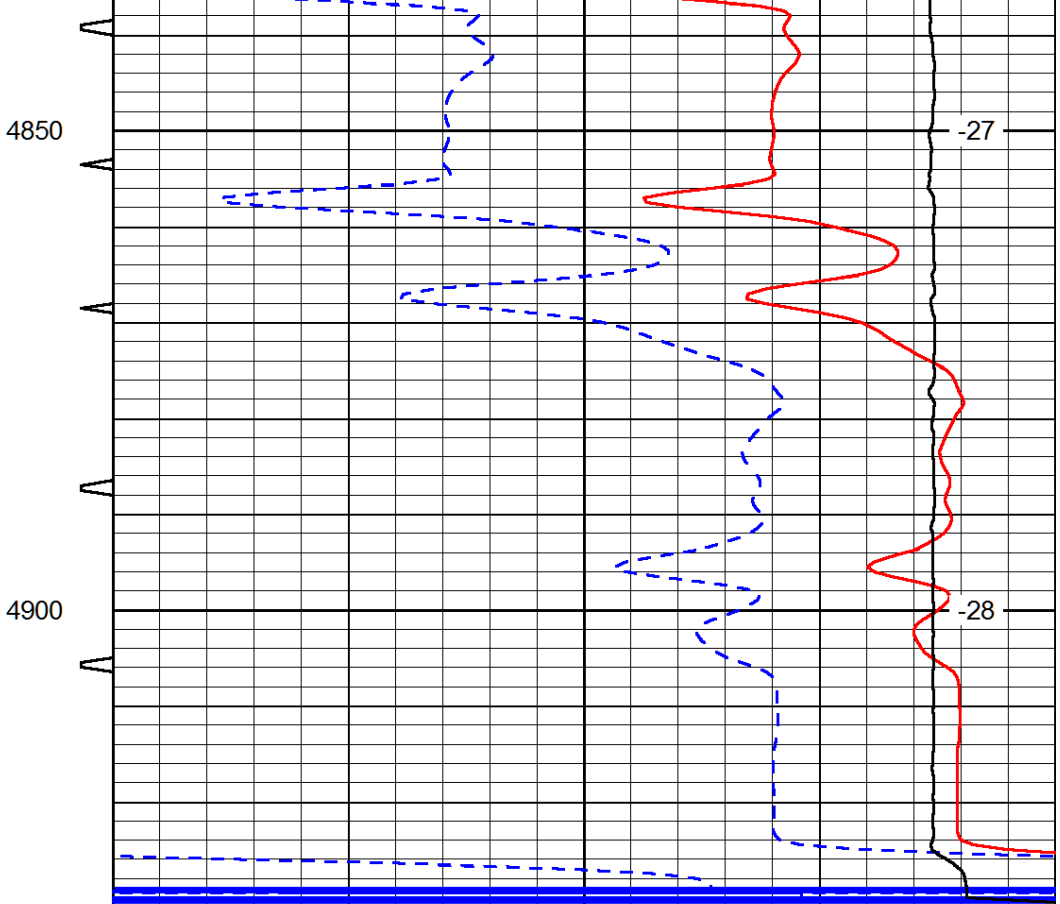








0	Gamma Ray (GAPI)	150
150	Gamma Ray (GAPI)	300
6	dCAL (in)	16



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

LSPD
(ft/min)