



Borehole Compensated Sonic Log

Pioneer Energy Services

API No.

15-153-20959-00-00

Company **Murfin Drilling Company, Inc.**

Well **Burk Trust B #1-14**

Field **Wildcat**

County **Rawlins**

State **Kansas**

Location

330' FNL & 1920' FEL

Other Services
CNL/CDL
MEL/DIL

Sec: 14

Twp: 1S

Rge: 36W

Elevation

Permanent Datum Ground Level Elevation 3275
Log Measured From Kelly Bushing 5 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Date 11/23/2013

Run Number Two

Type Log BHC Sonic

Depth Driller 4800

Depth Logger 4810

Bottom Logged Interval 4799

Top Logged Interval 250

Type Fluid In Hole Chemical

Salinity, PPM CL 1000

Density 9.4

Level Full

Max. Rec. Temp. F 126

Operating Rig Time 5 Hours

Equipment -- Location 91 Hays

Recorded By D. Schmidt

Witnessed By Brad Rine

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.

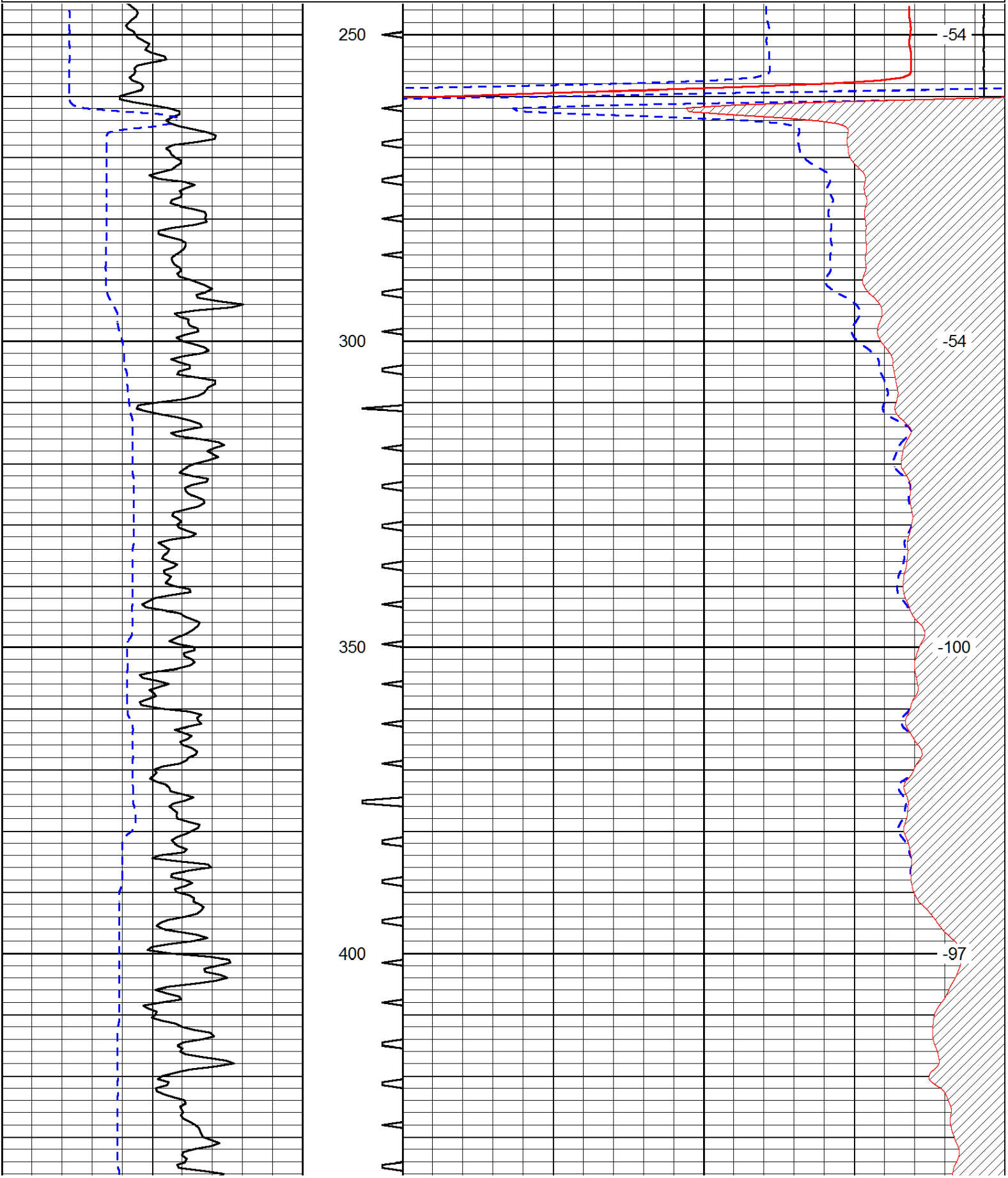
Comments

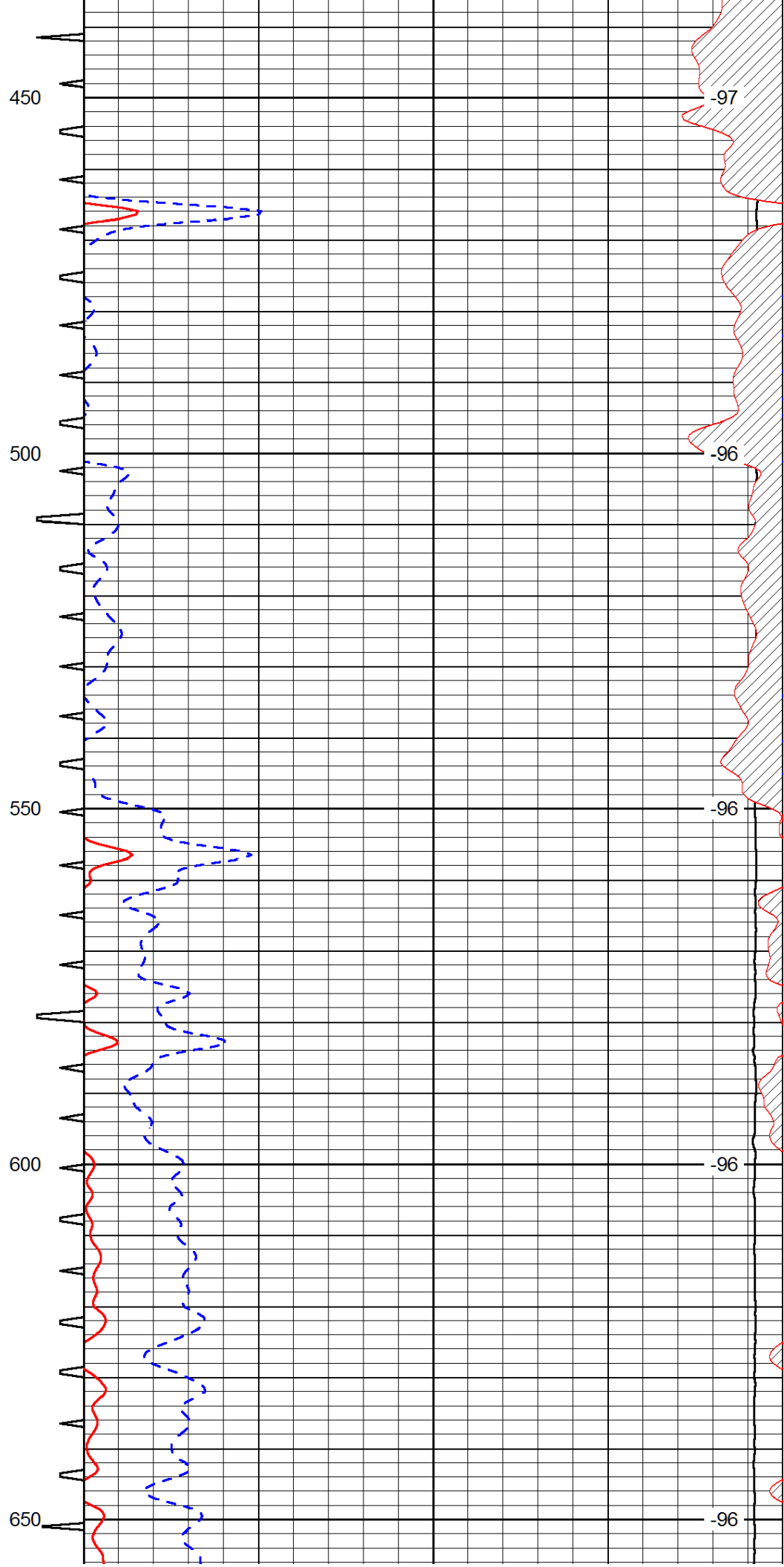
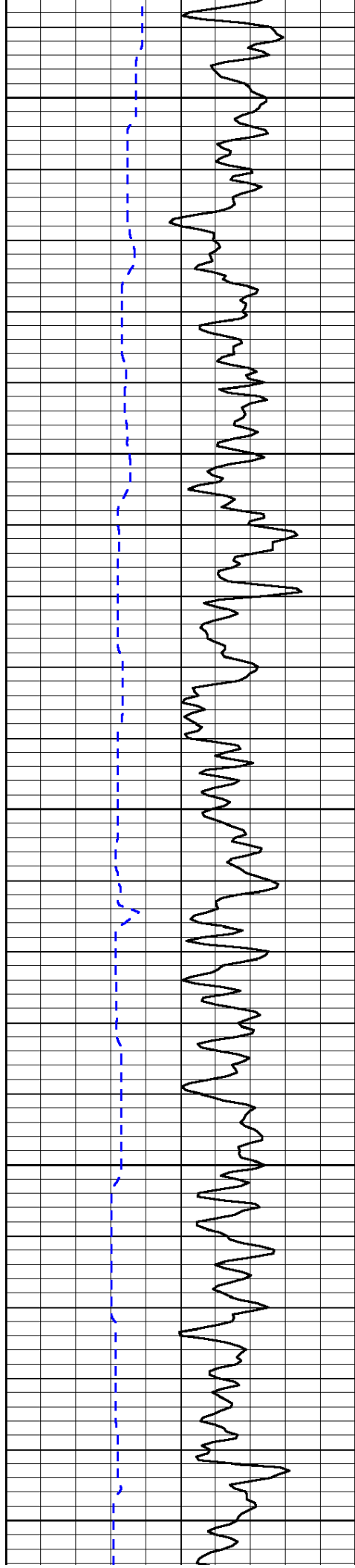
Thank you for using Log-Tech, Inc.
(785) 625-3858

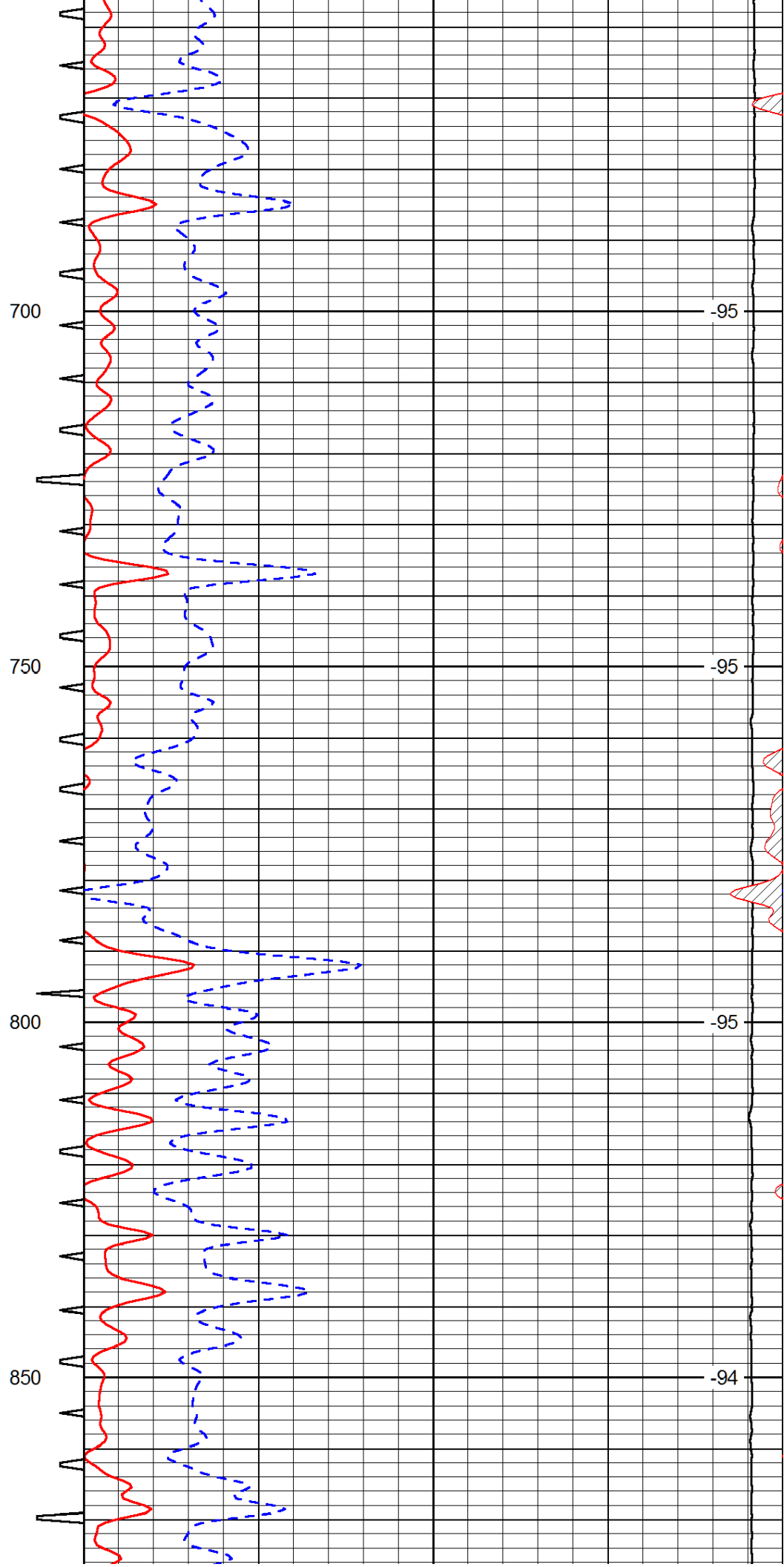
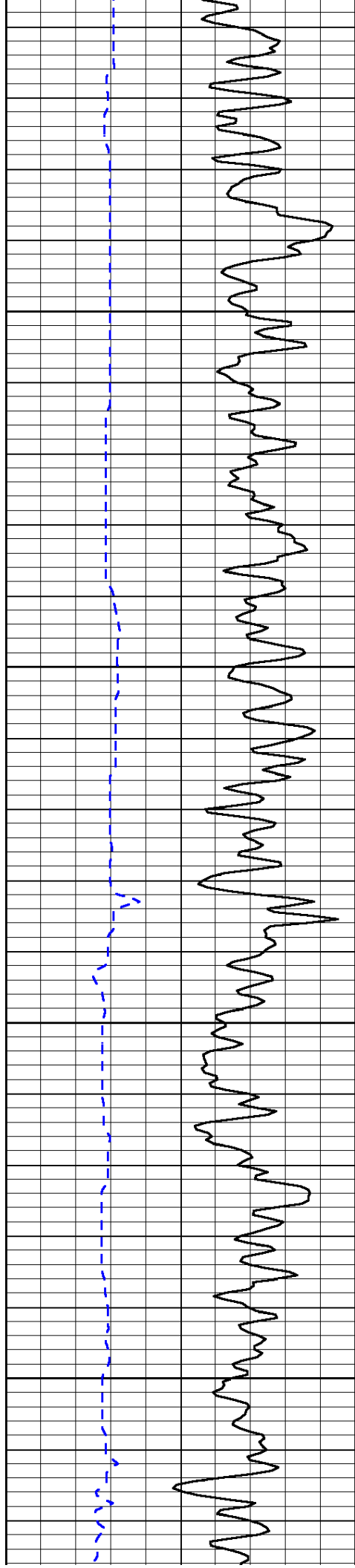
Beardsley,
North to AA Rd, West to 6 Rd, 1 1/2 North, 1/4 West,
North into

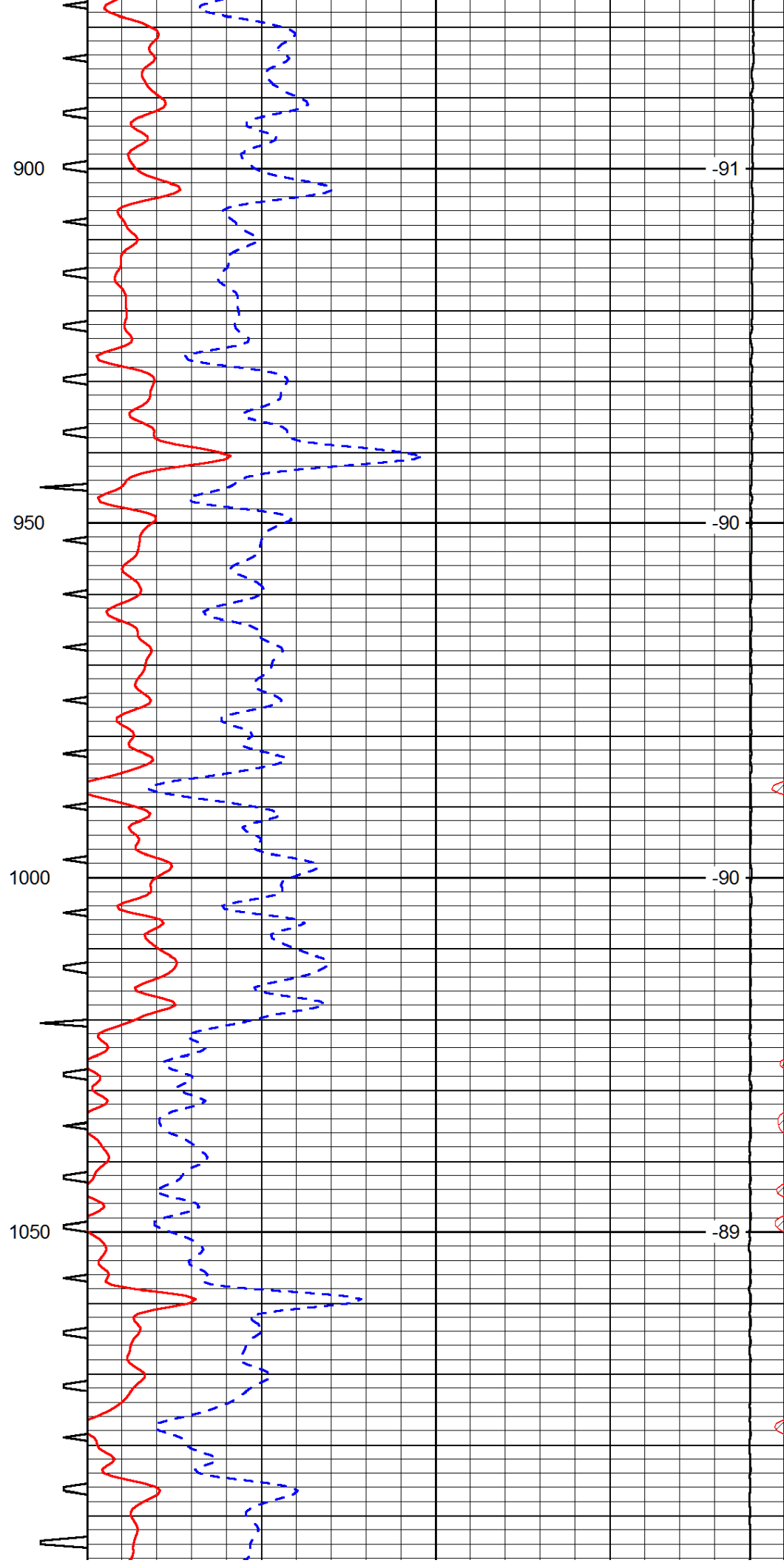
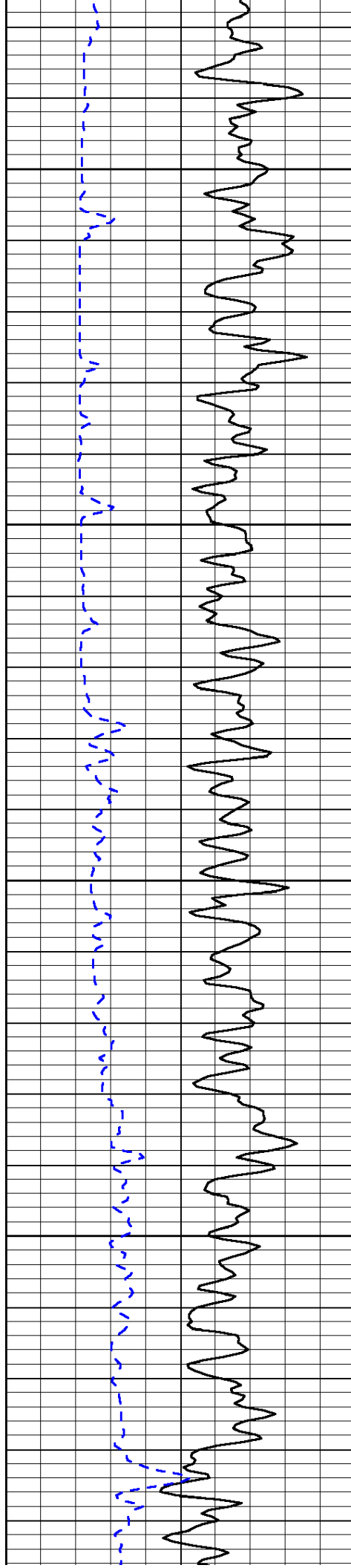
Database File: murfin_112313hd.db
Dataset Pathname: dil/mrfstck
Presentation Format: sonic
Dataset Creation: Sat Nov 23 10:19:30 2013
Charted by: Depth in Feet scaled 1:240

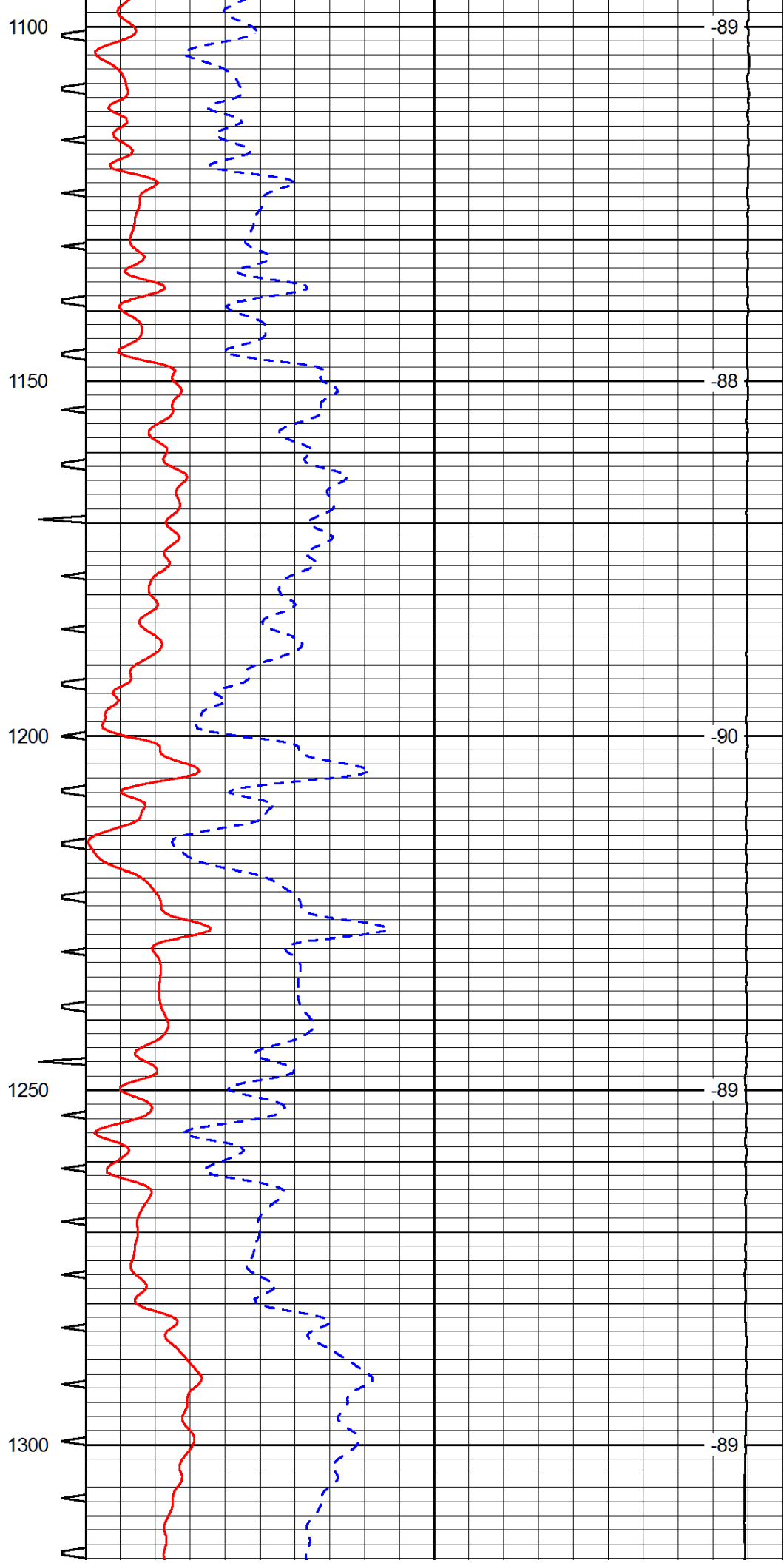
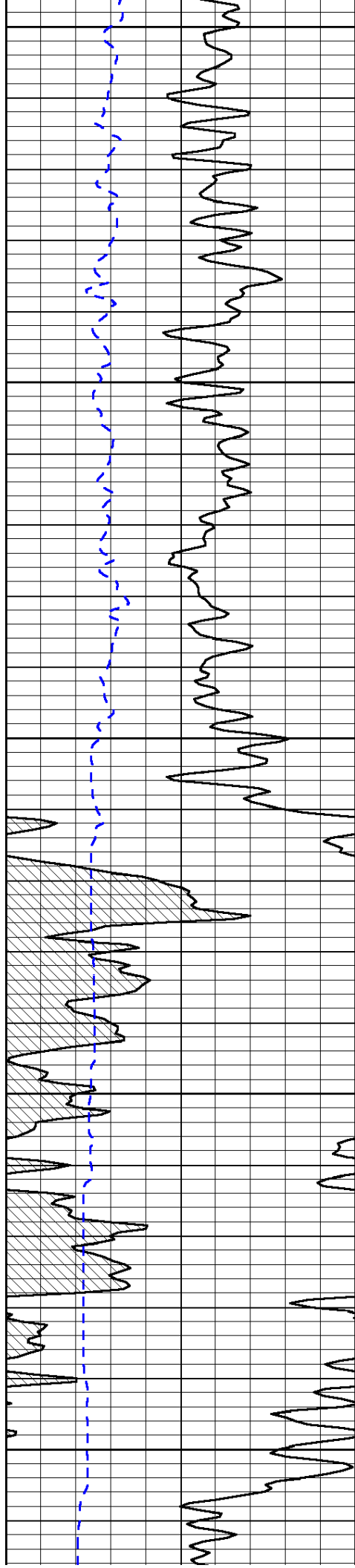
Charted by:			Depth in Feet scaled 1:210			
0	Gamma Ray (GAPI)	150	Sonic Int	140	Delta Time (usec/ft) (usec/ft)	40
150	Gamma Ray (GAPI)	300	5 (msec) 0	30	Sonic Porosity (pu)	-10
6	dCAL (in)	16		15000	LTEN (lb) (lb)	0
						LSPD (ft/min)

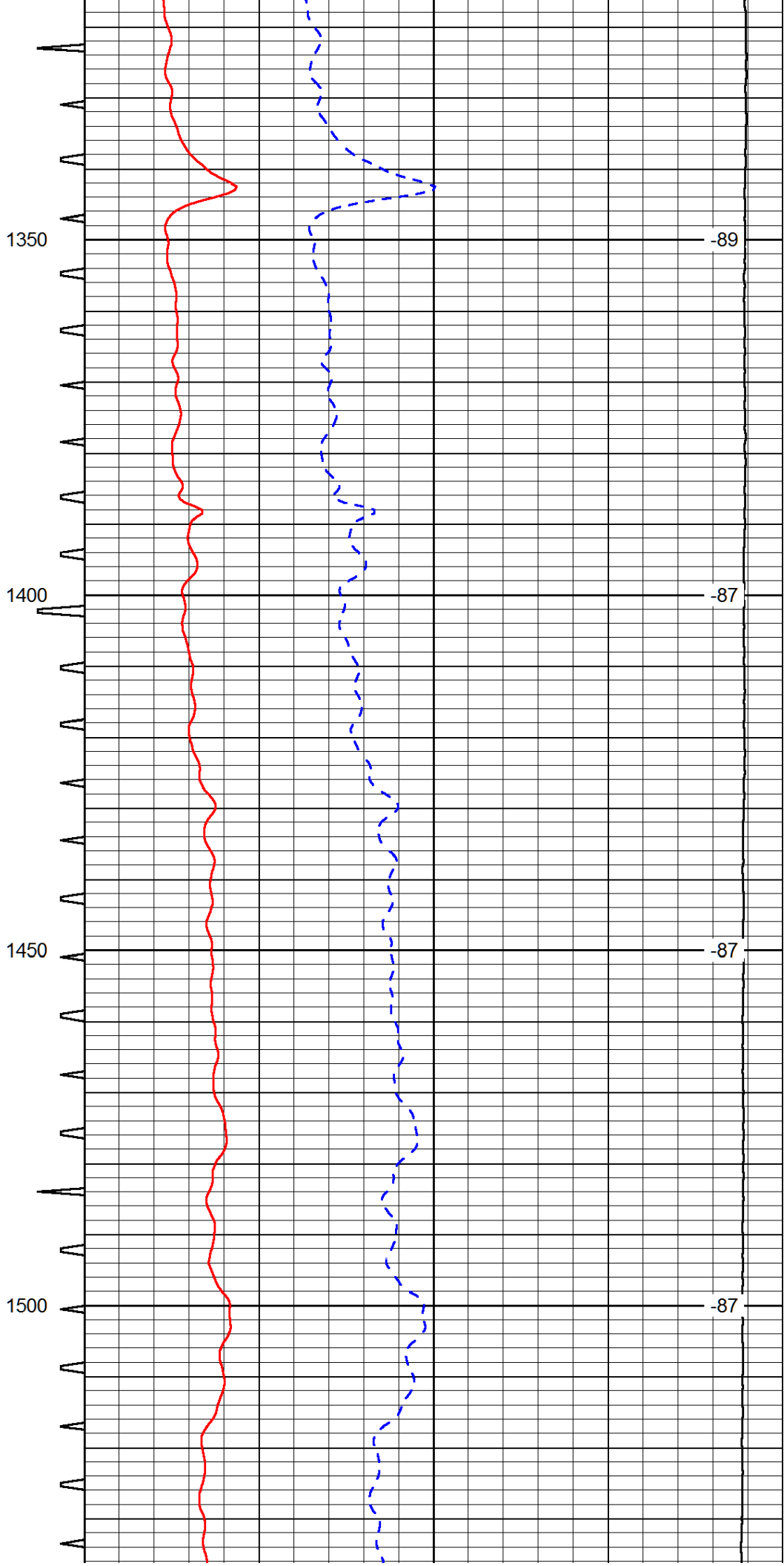
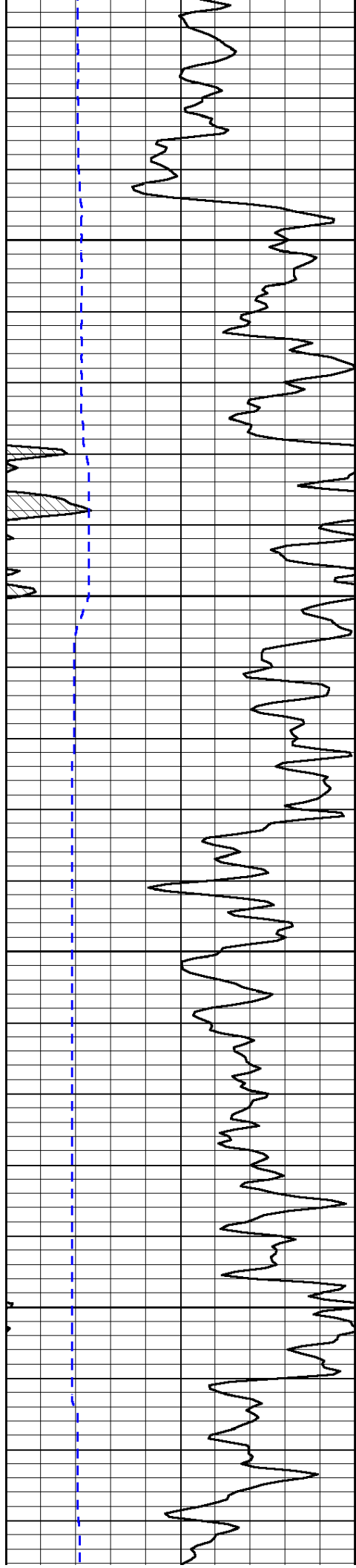


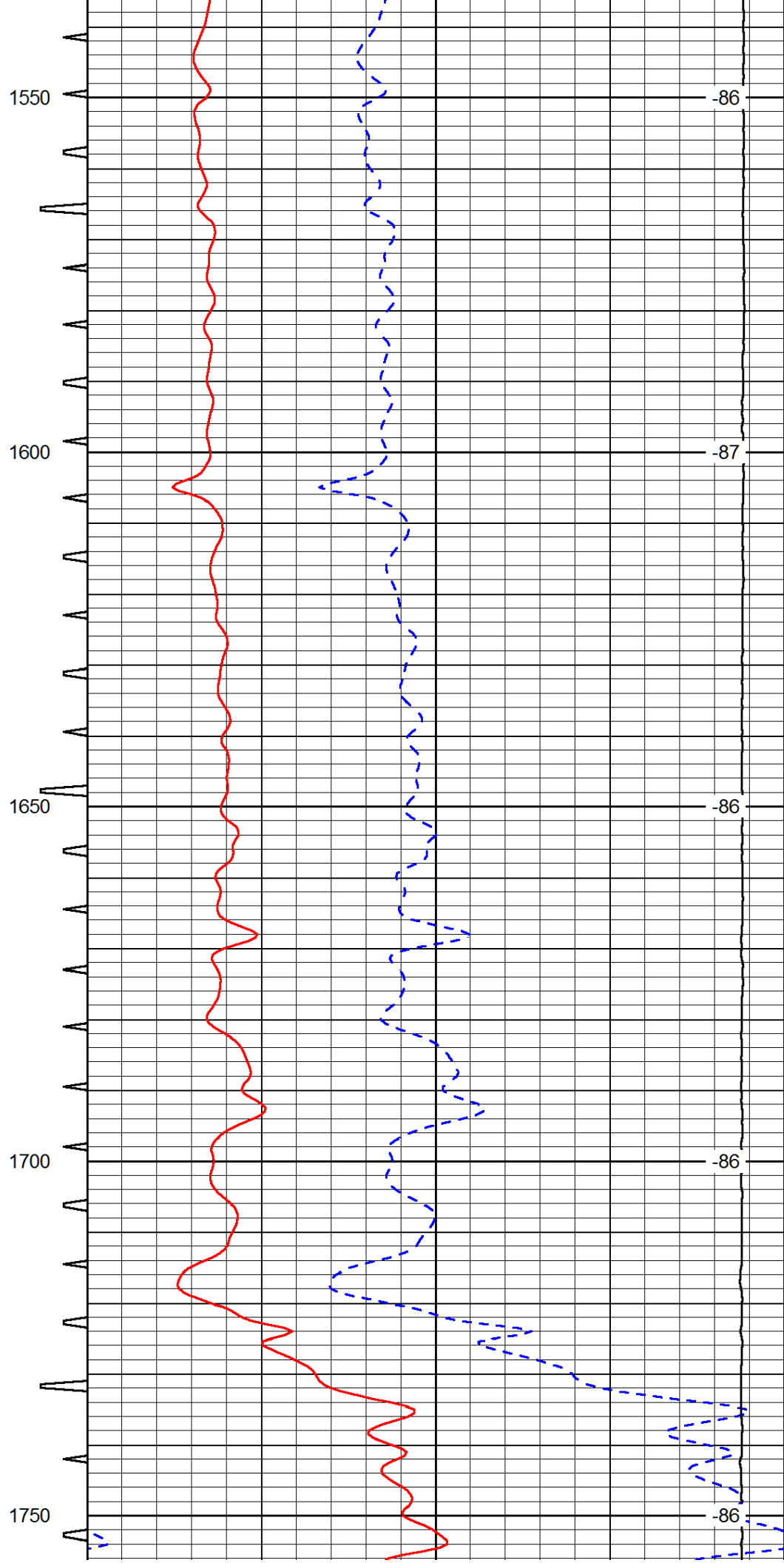
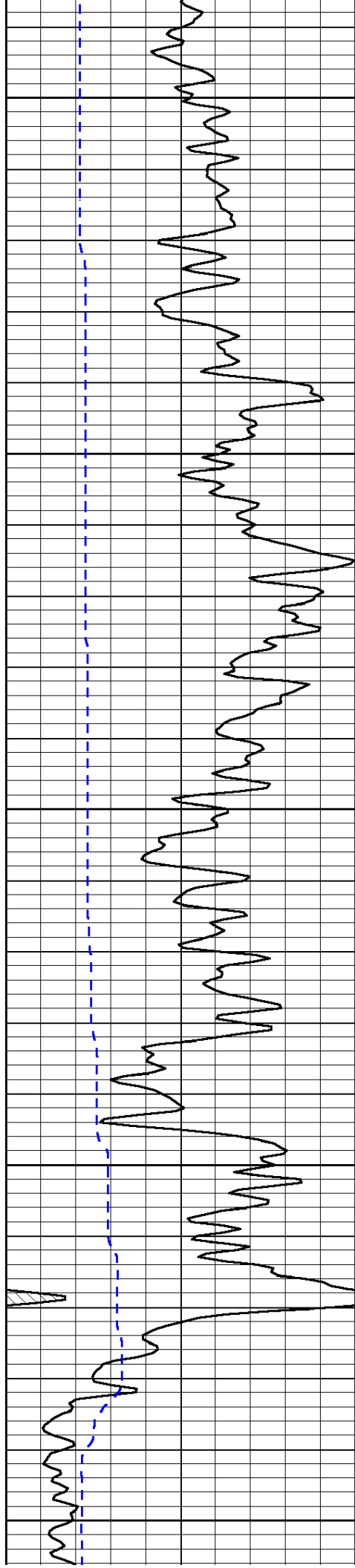


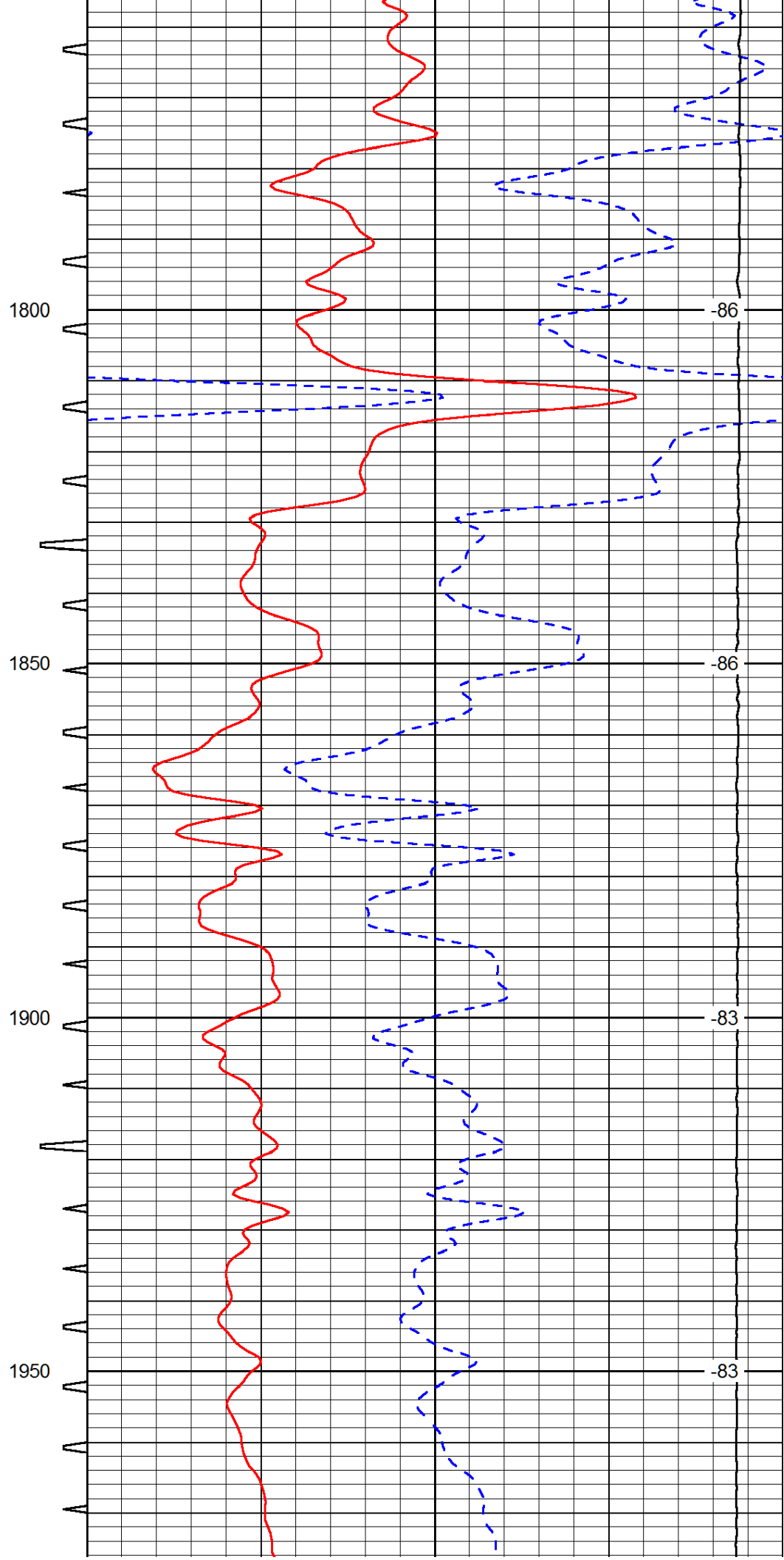
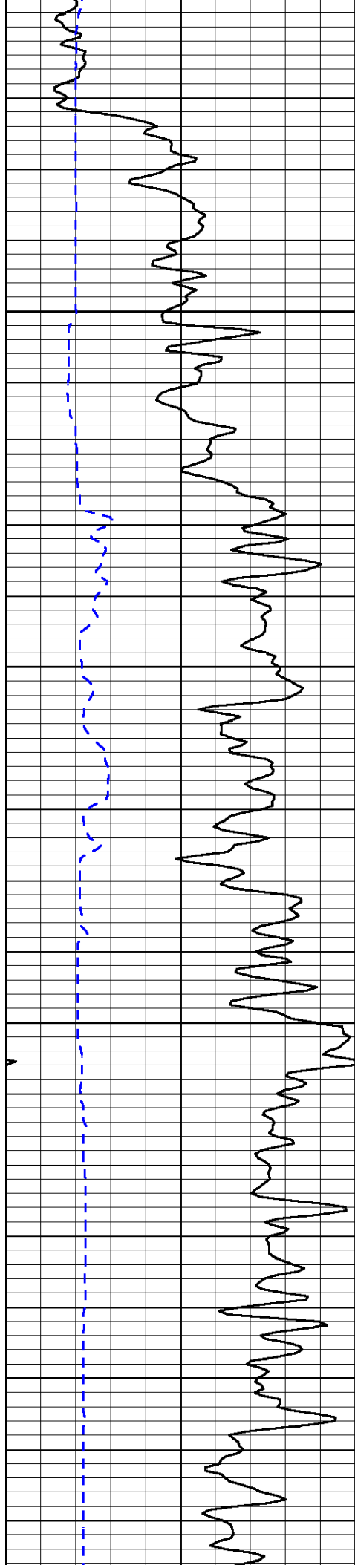


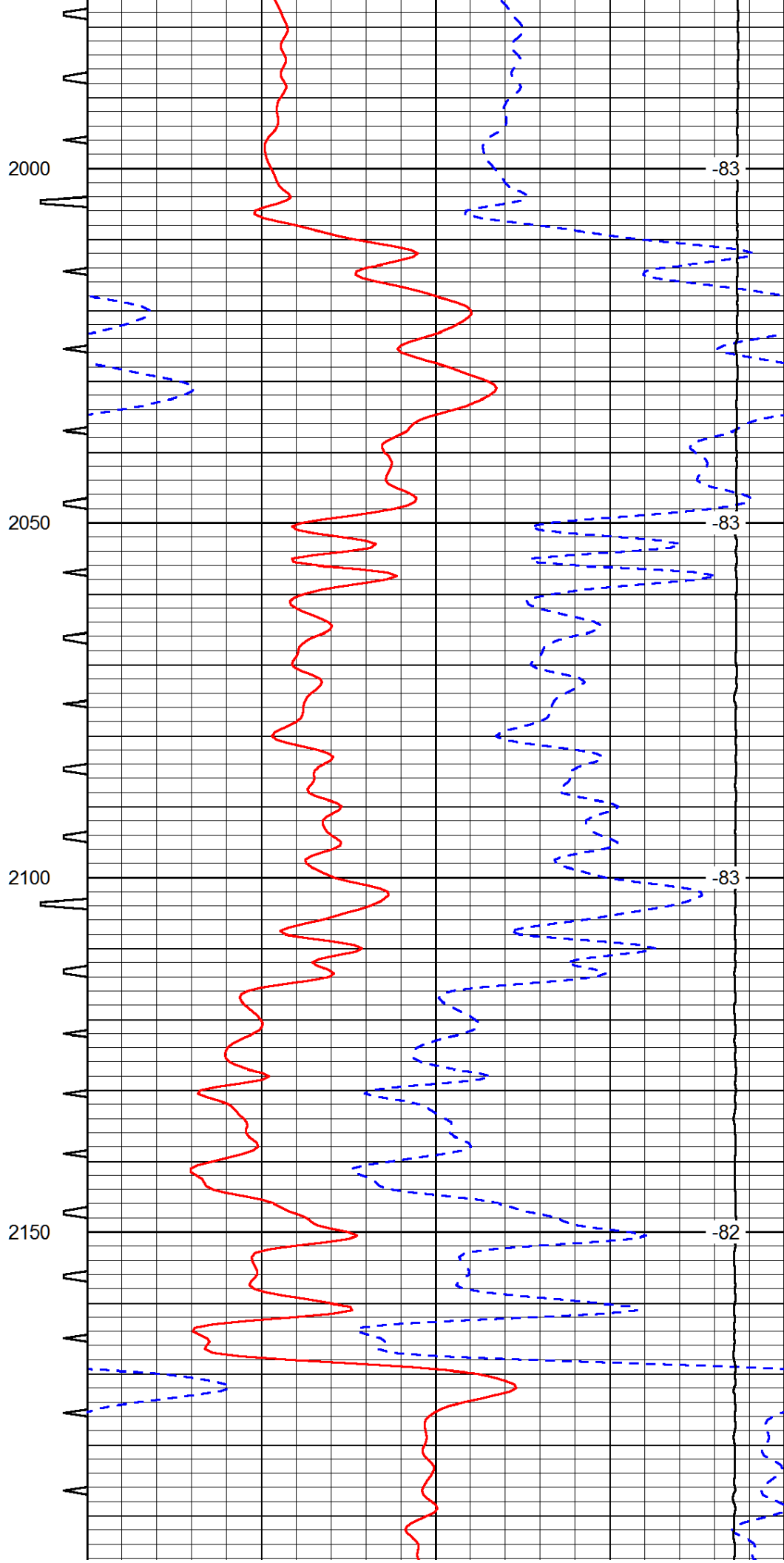
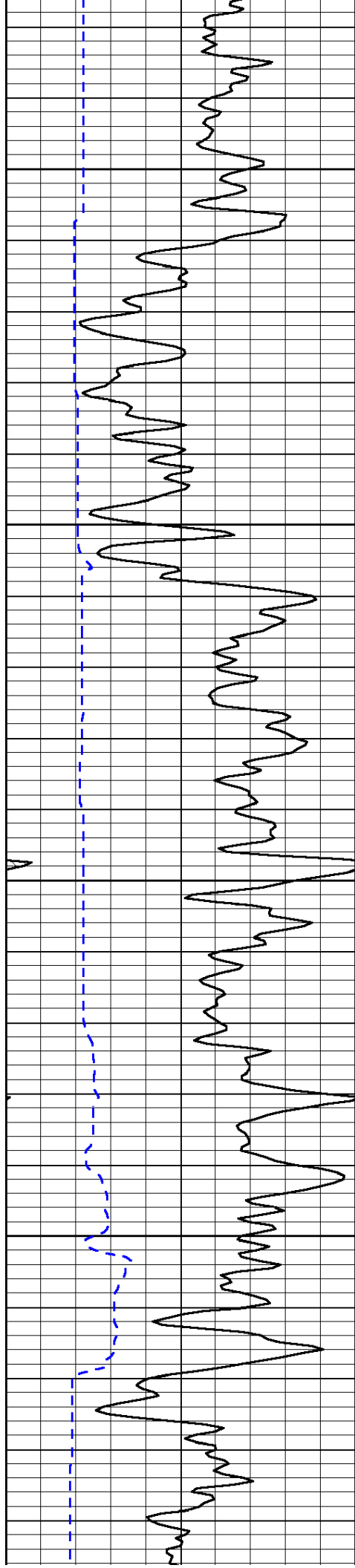


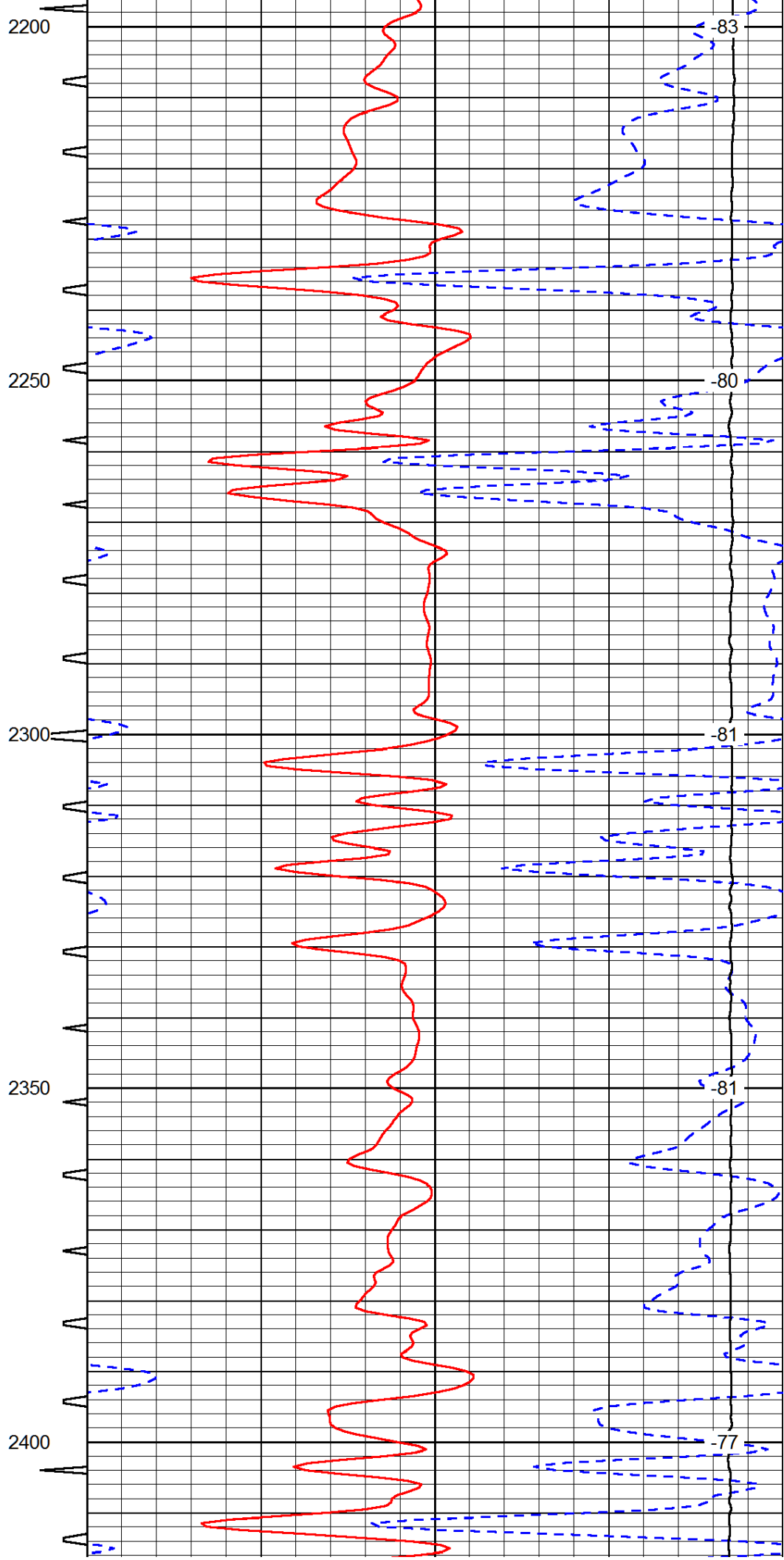
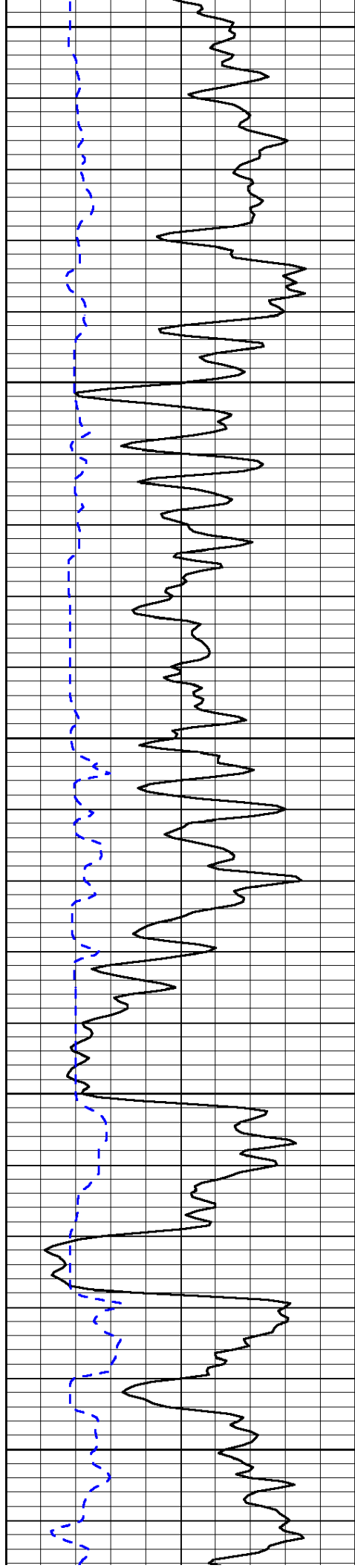


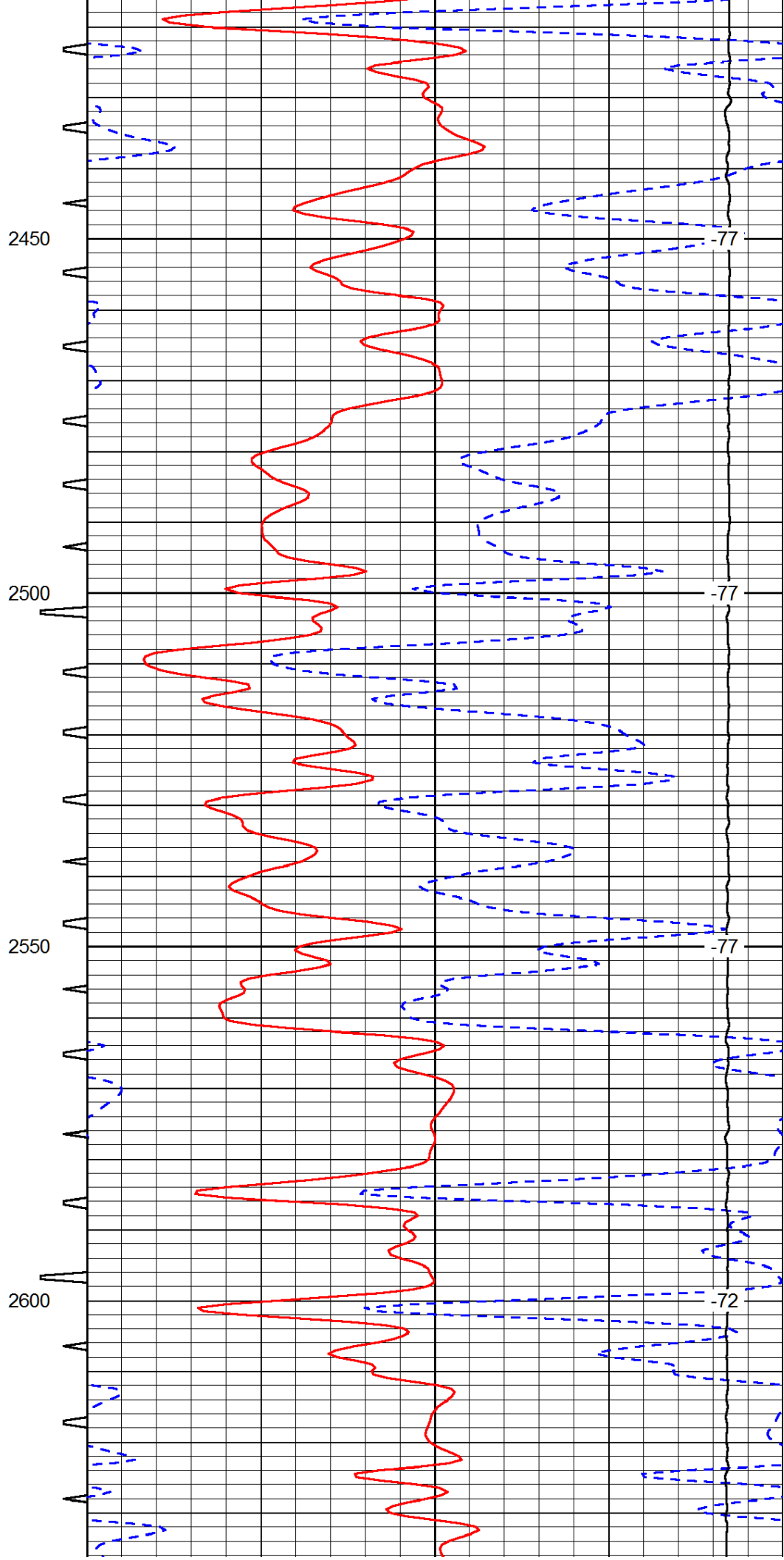
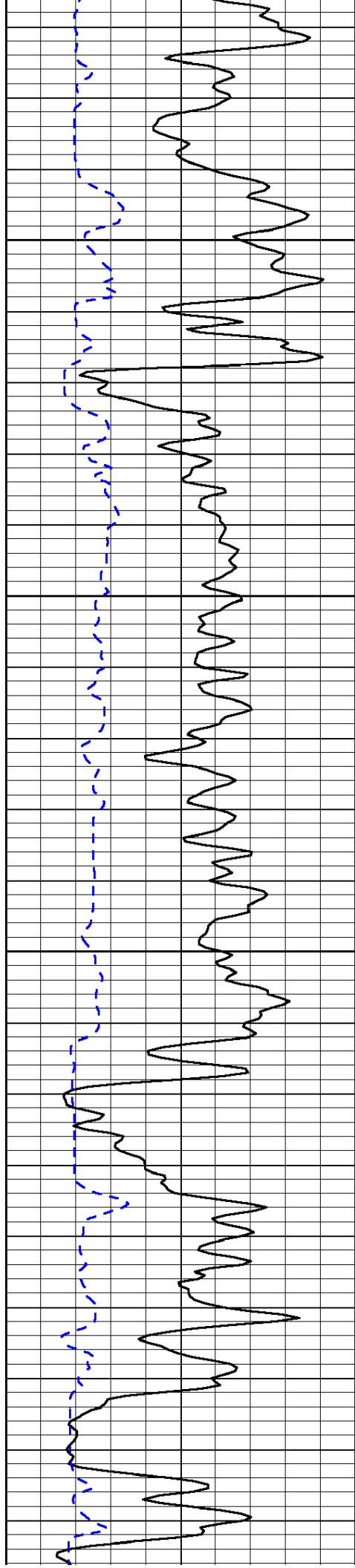


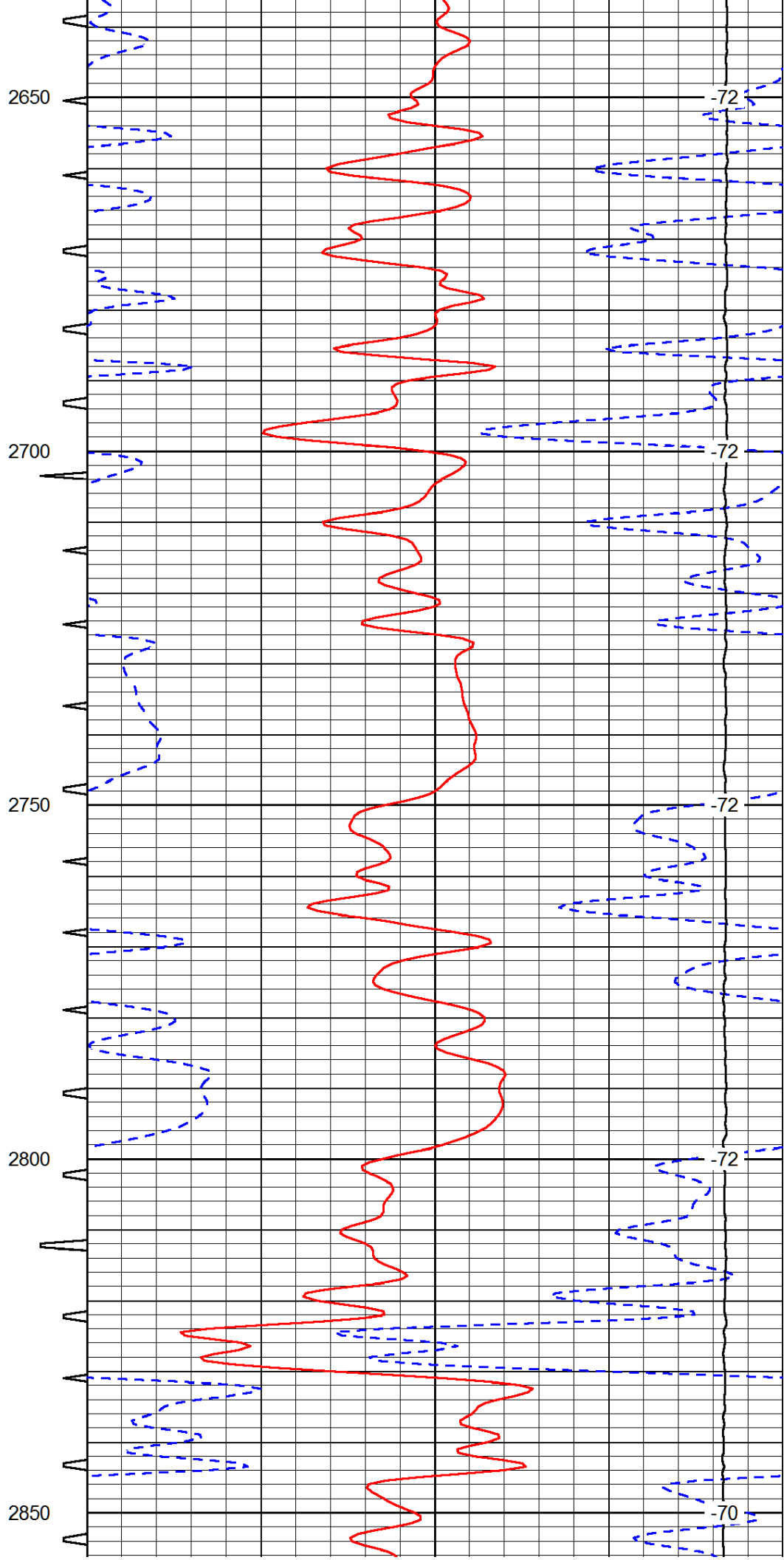
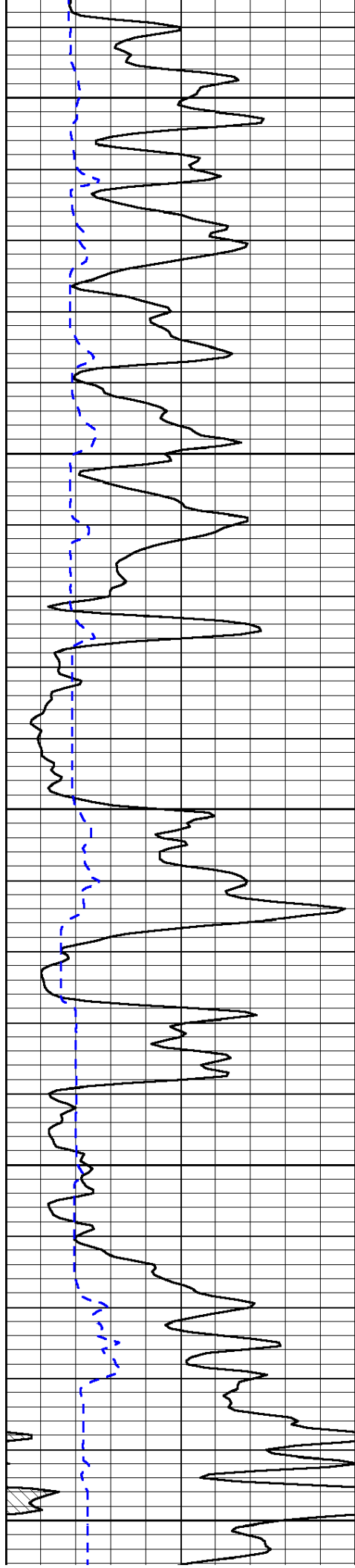


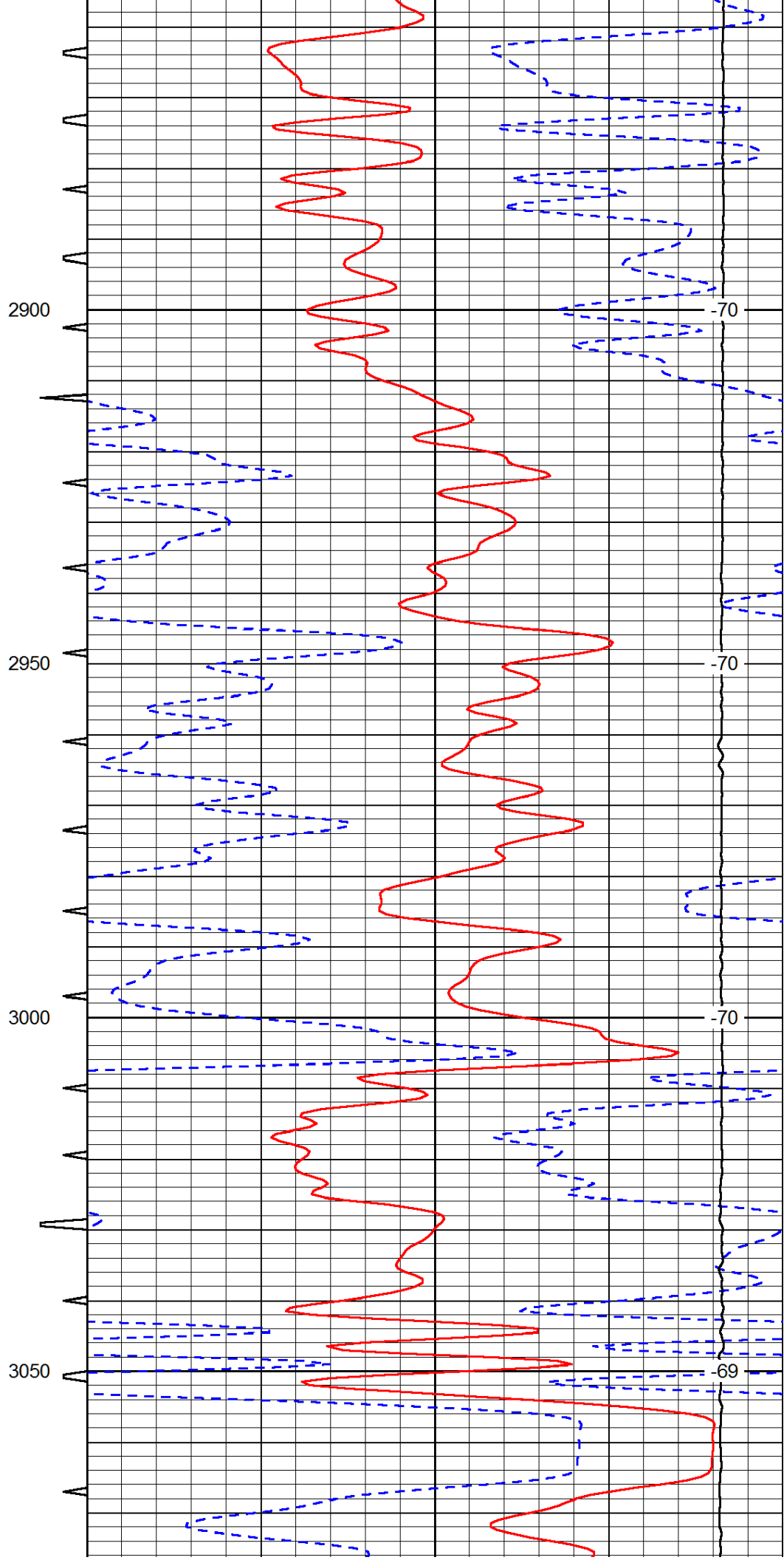
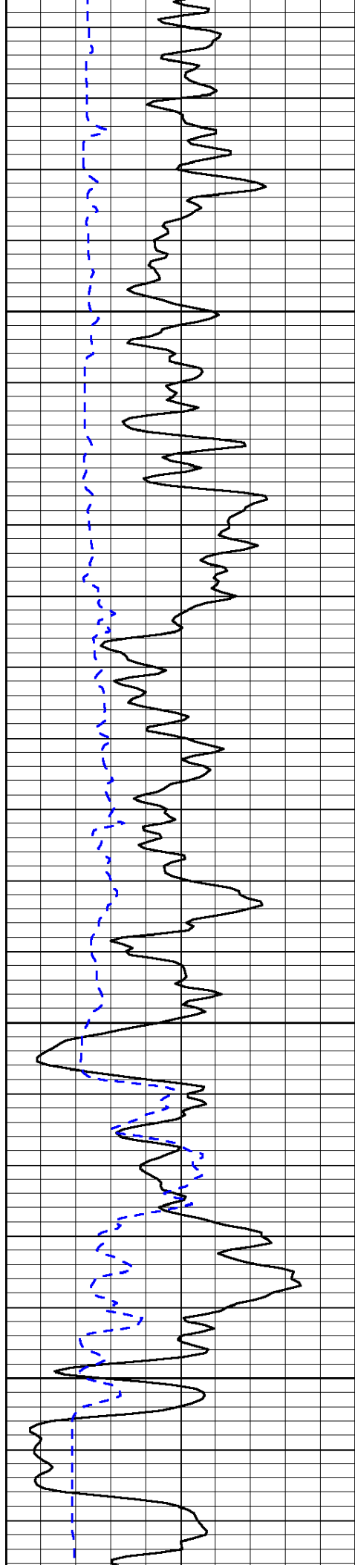


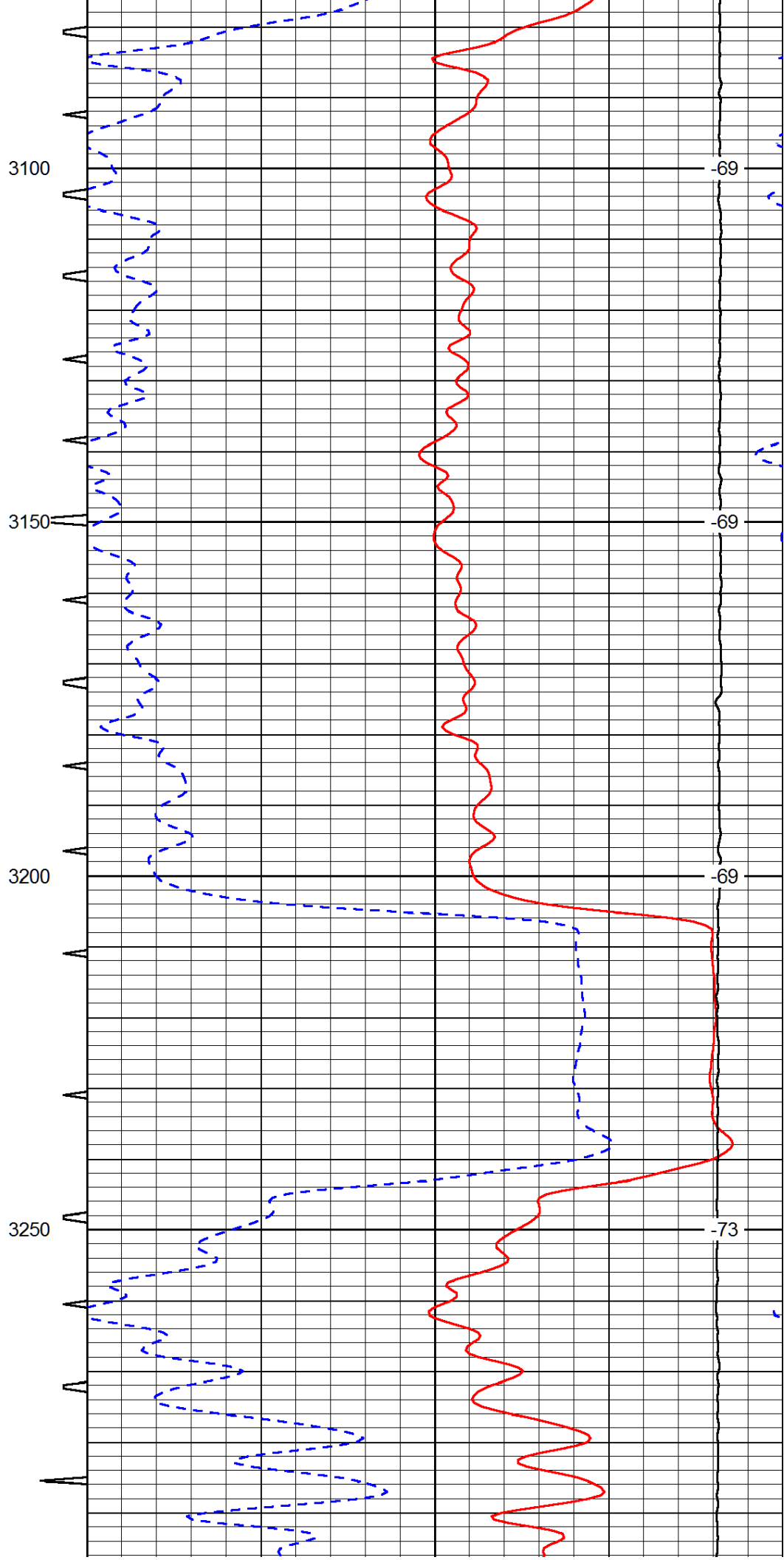
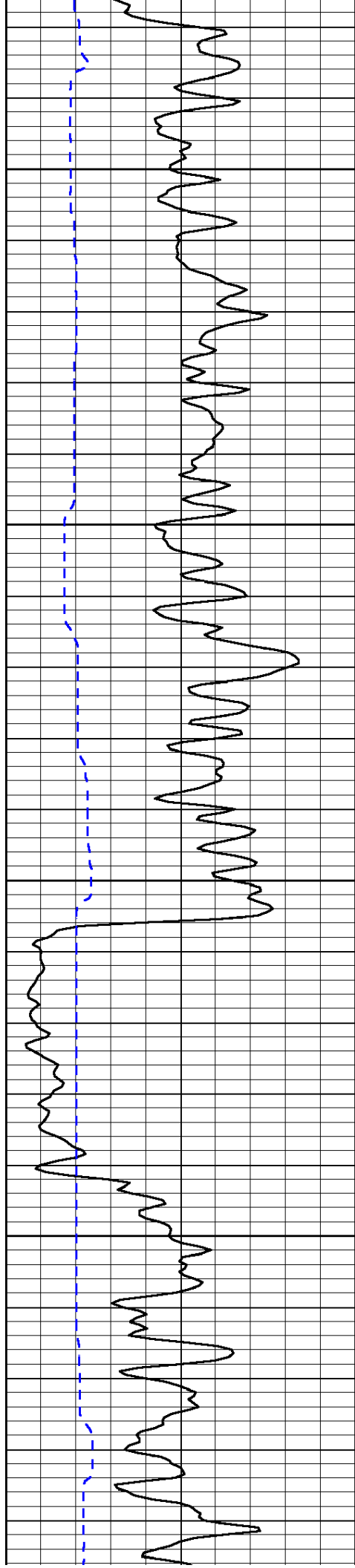


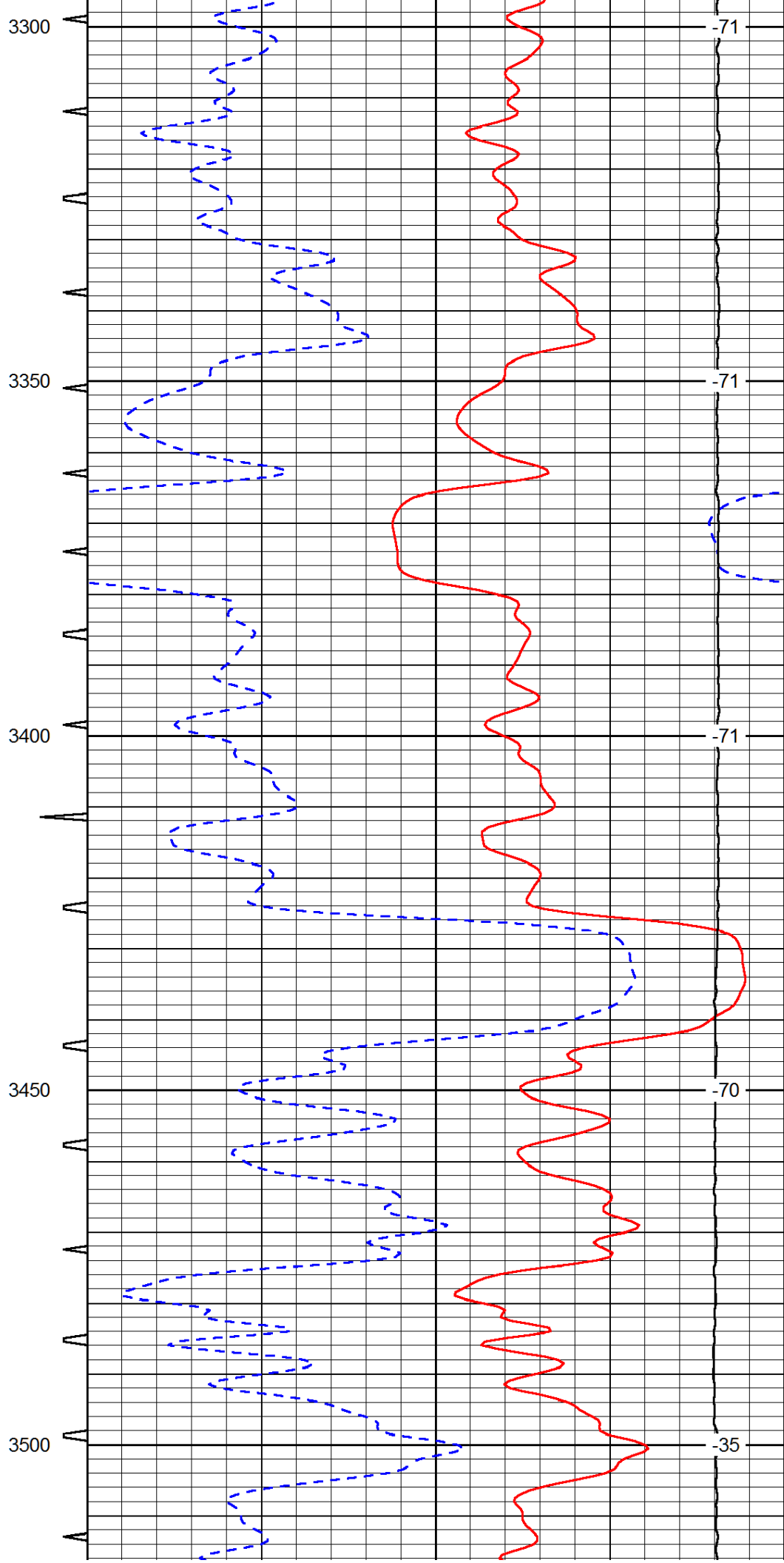
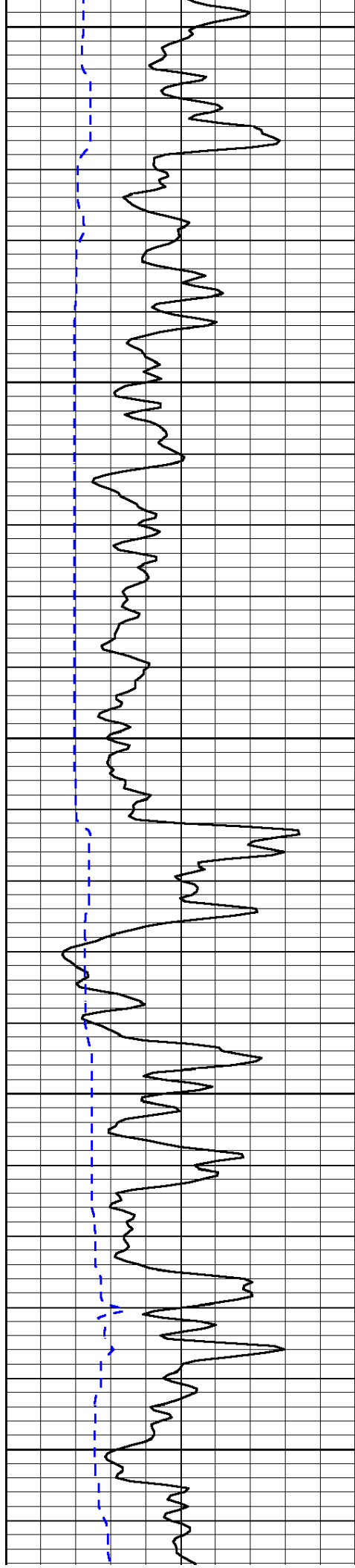


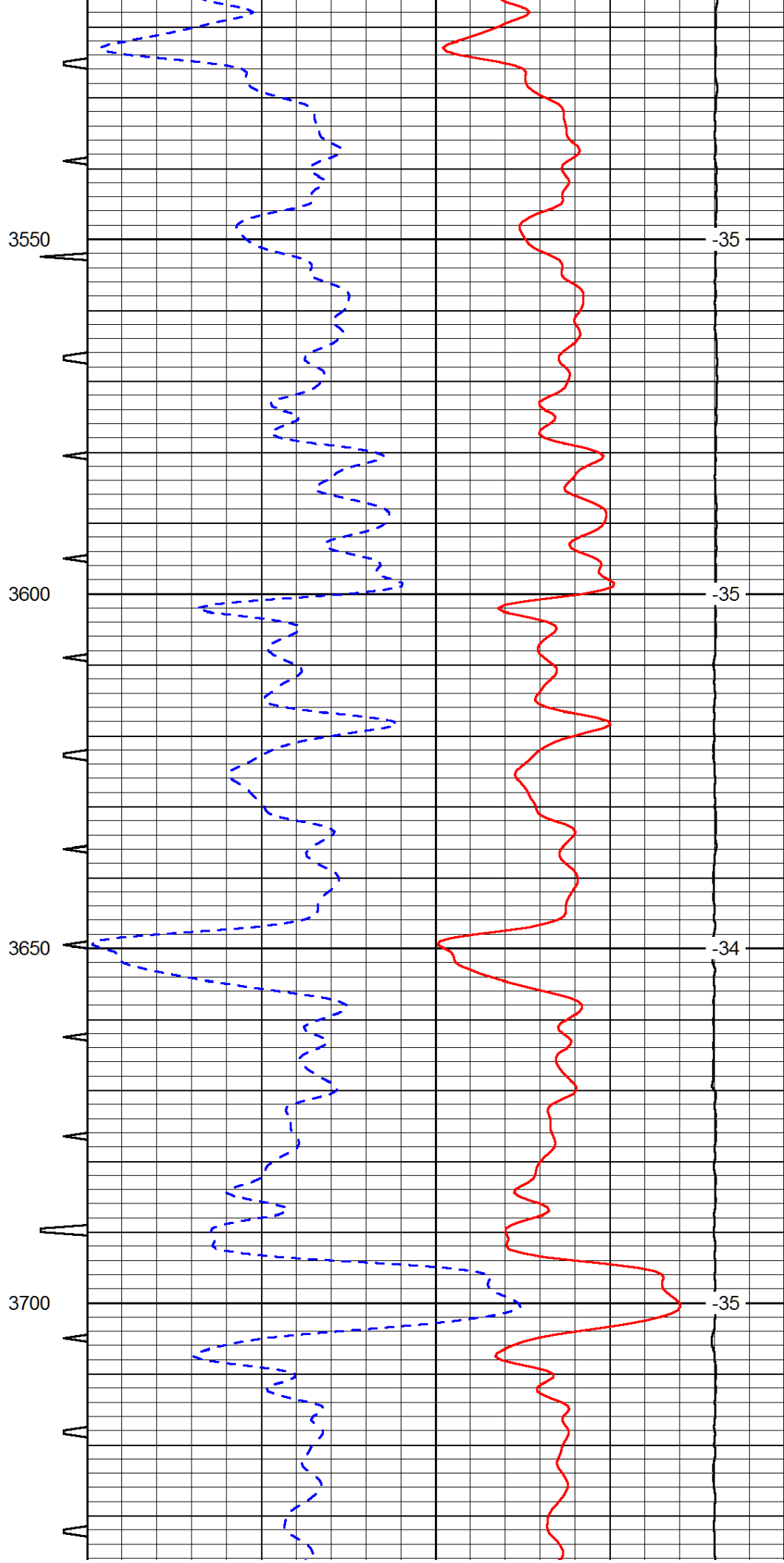
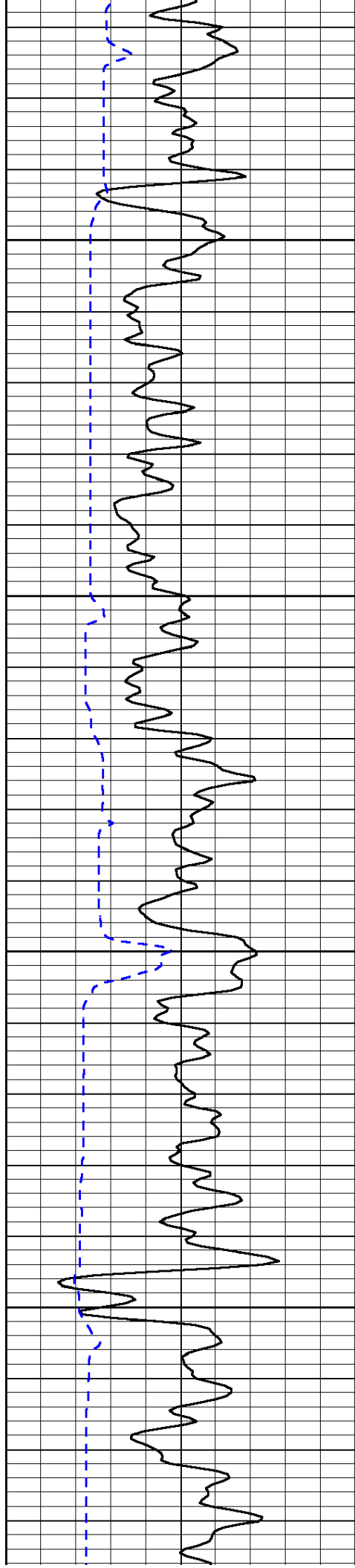


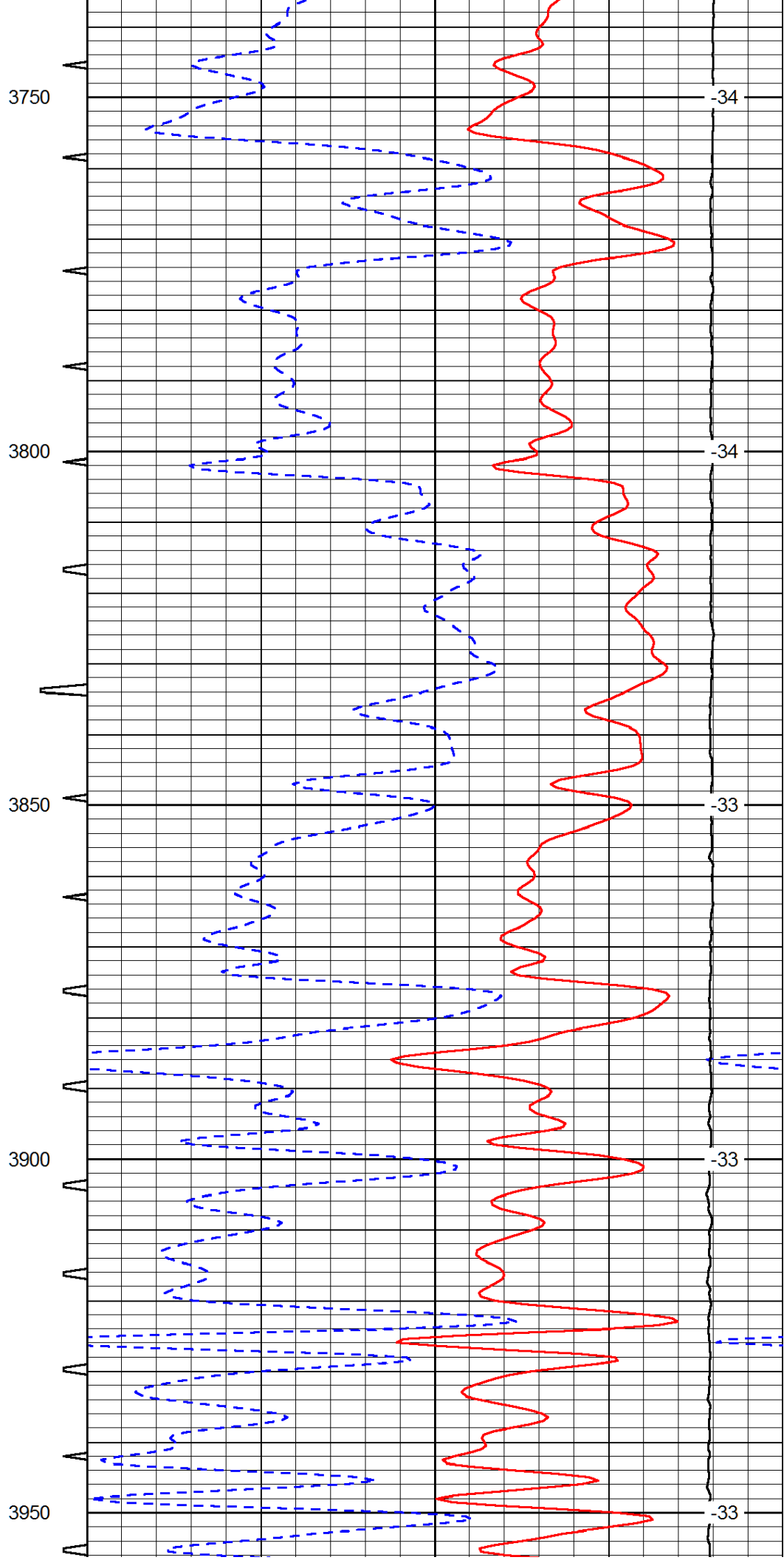
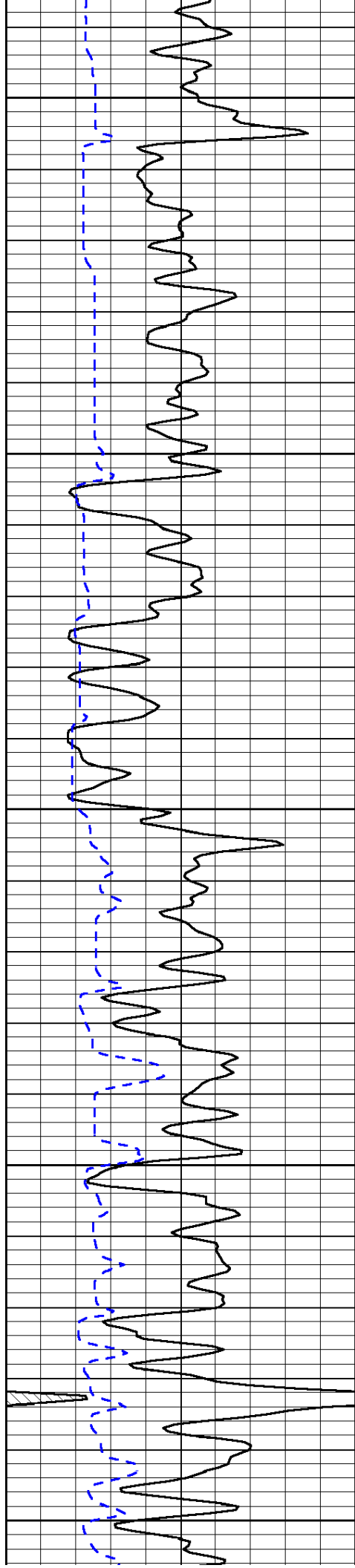


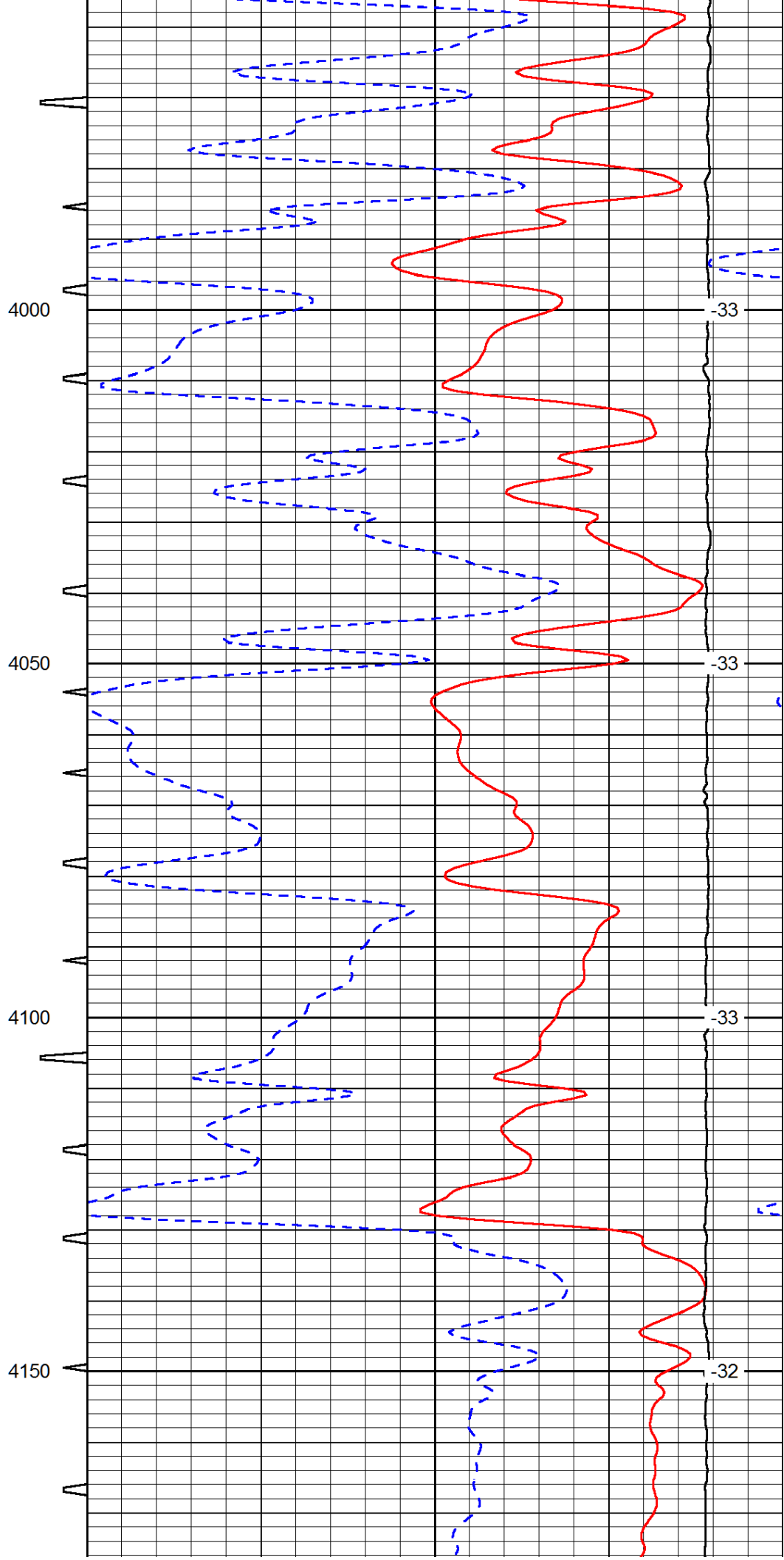
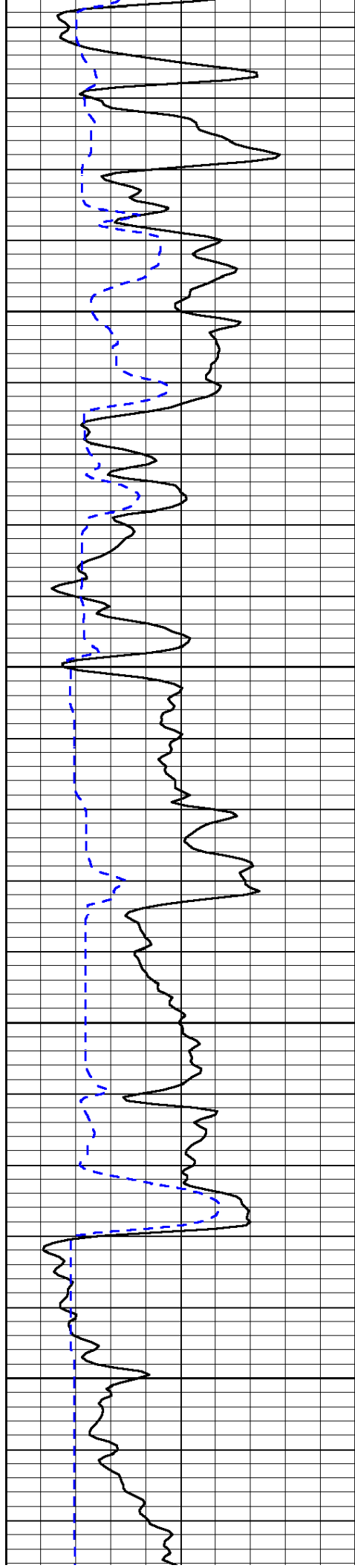


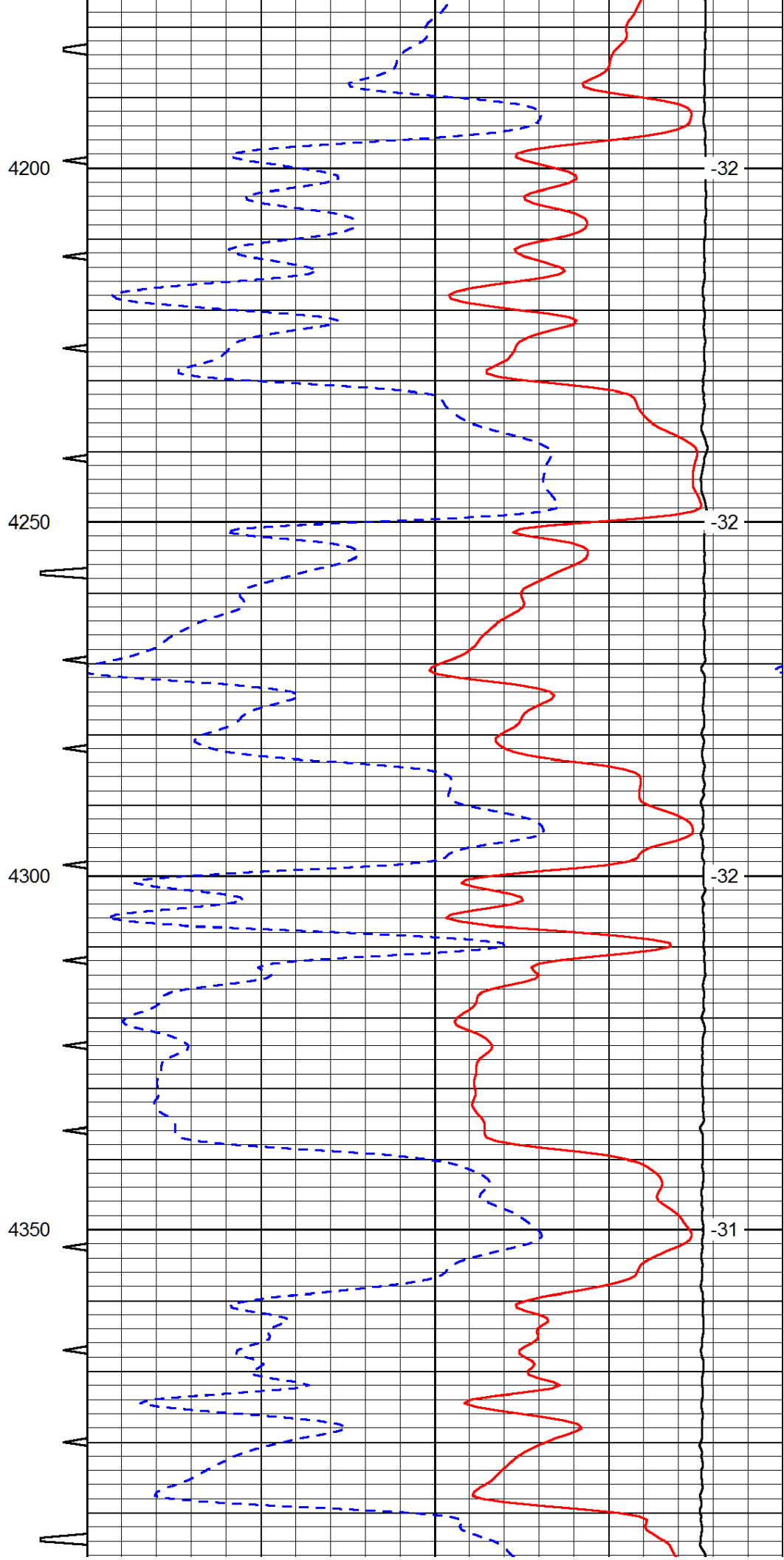
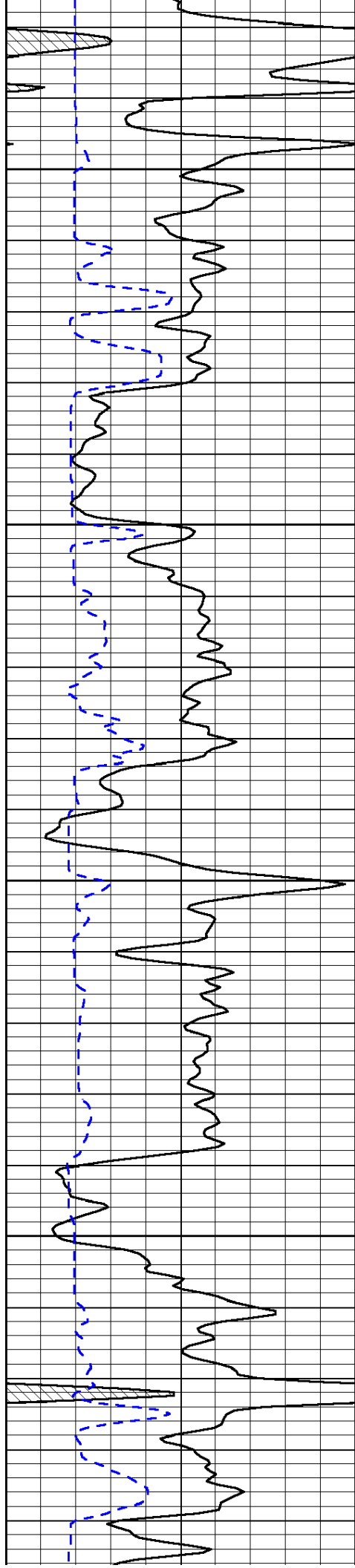


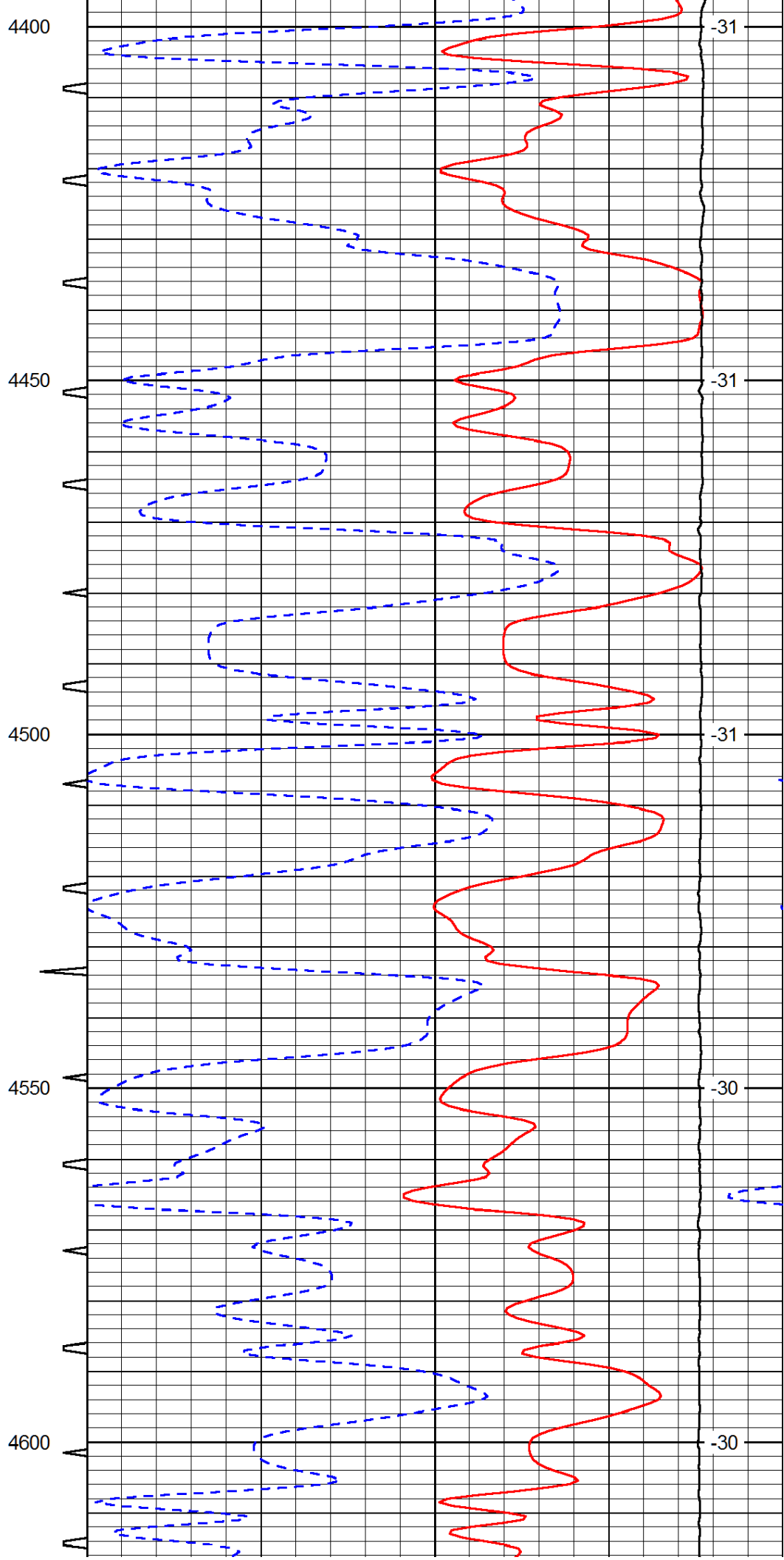
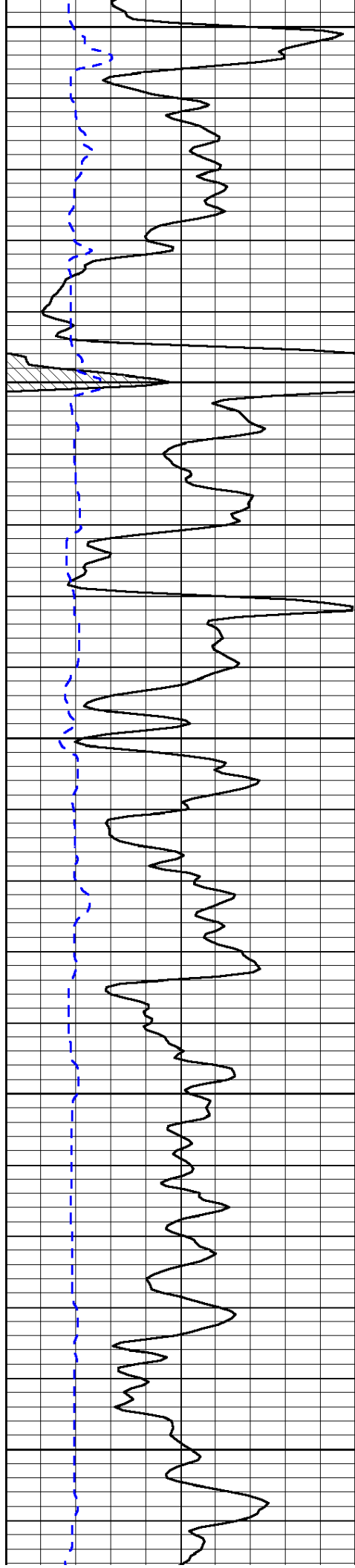


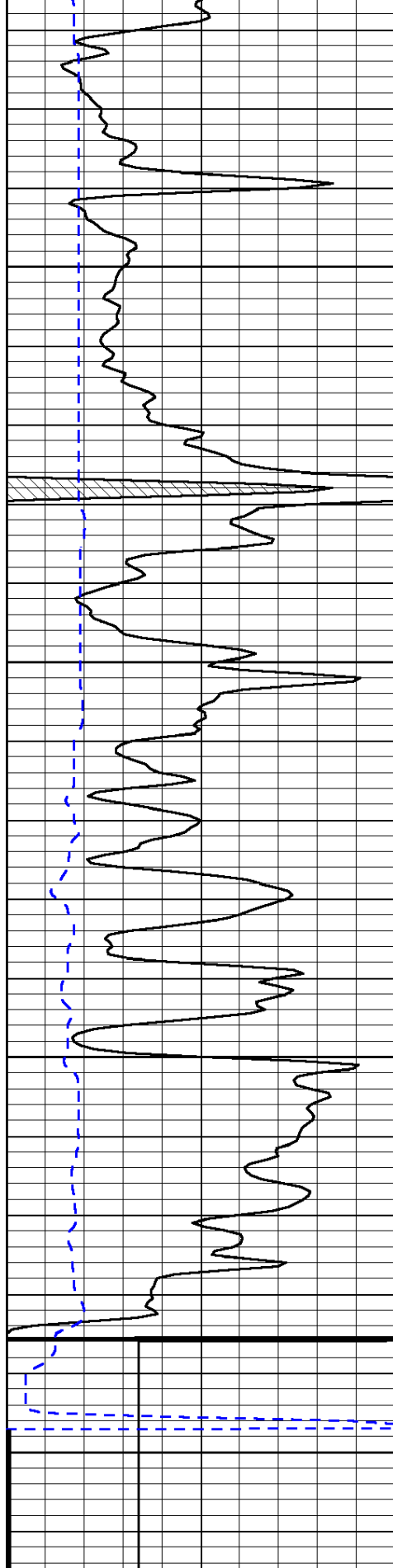




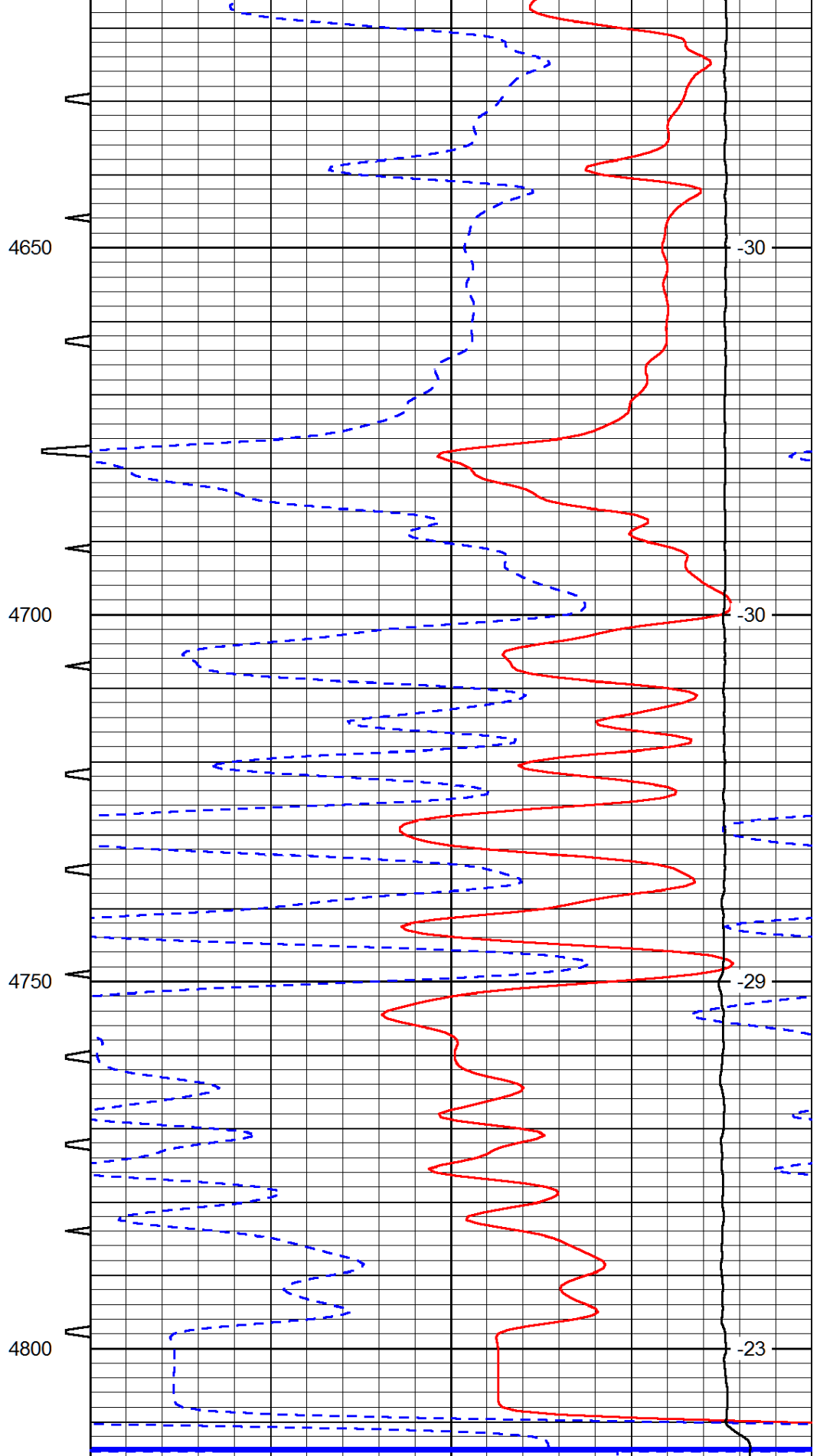








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LSPD

(ft/min)
