



PIONEER

Pioneer Energy Services

Borehole Compensated Sonic Log

API No.

15-153-21033-00-00

Company Murfin Drilling Company, Inc.

Well Dan # 1-9

Field Wildcat

County Rawlins

State Kansas

Location

330' FSL & 1650' FEL

Other Services
CNL/CDL
MEL/DIL

Sec: 9

Twp: 1 S

Rge: 35 W

Elevation

Permanent Datum Ground Level Elevation 3162
Log Measured From Kelly Bushing 11 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

K.B. 3173
D.F.
G.L. 3162

Date 07-17-2014

Run Number Two

Type Log BHC Sonic

Depth Driller 4472

Depth Logger 4478

Bottom Logged Interval 4467

Top Logged Interval 250

Type Fluid In Hole Chemical

Salinity, PPM CL 600

Density 9.1

Level Full

Max. Rec. Temp. F 121

Operating Rig Time 5 Hours

Equipment -- Location 17 Hays

Recorded By Y. Ruiz

Witnessed By Robert Hendrix

Borehole Record

Casing Record

Run No Bit From To Size Wgt. From To

One 12.25 00 263 8.625 23# 00 263

Two 7.875 263 TD

<<< Fold Here >>>

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.

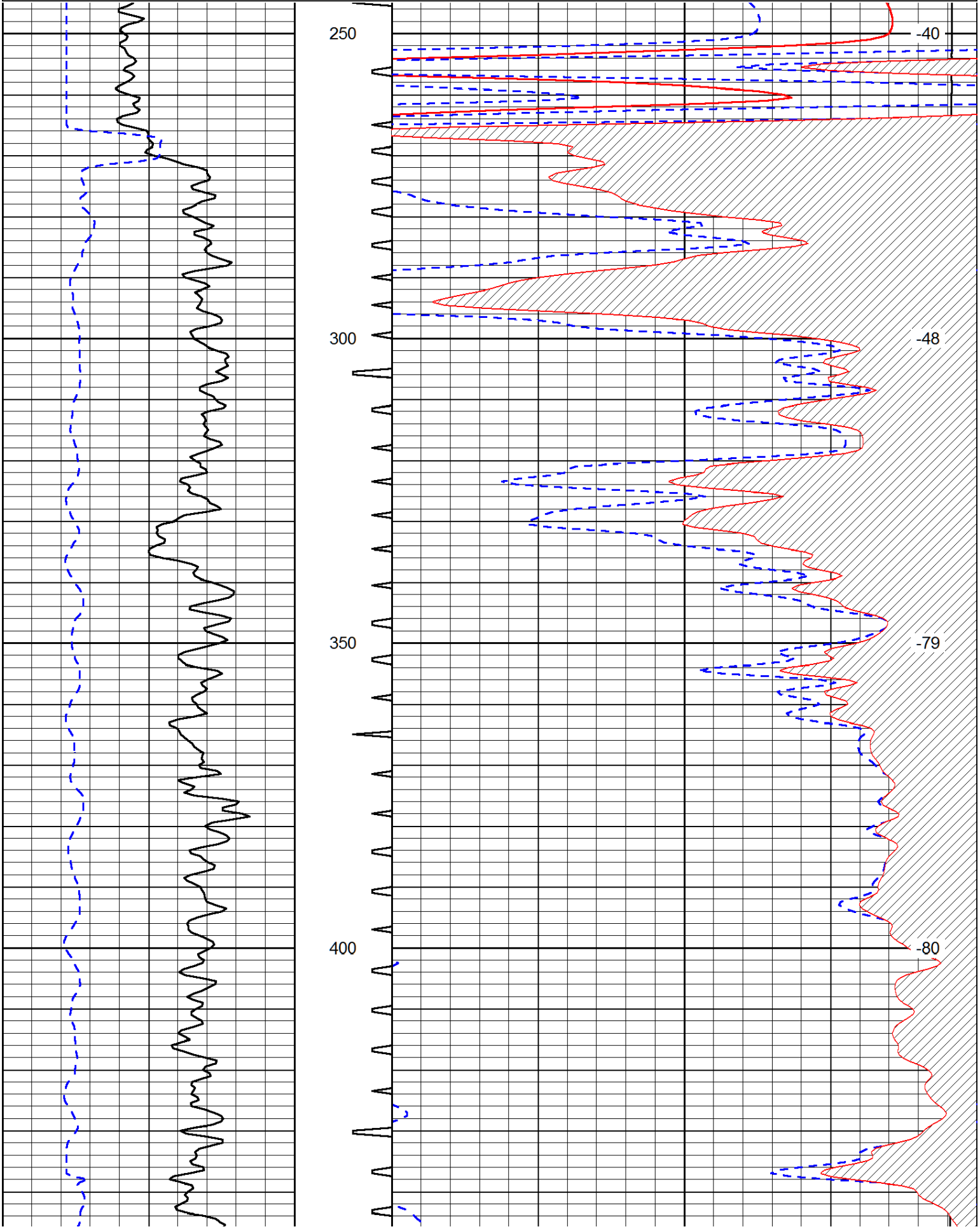
Comments

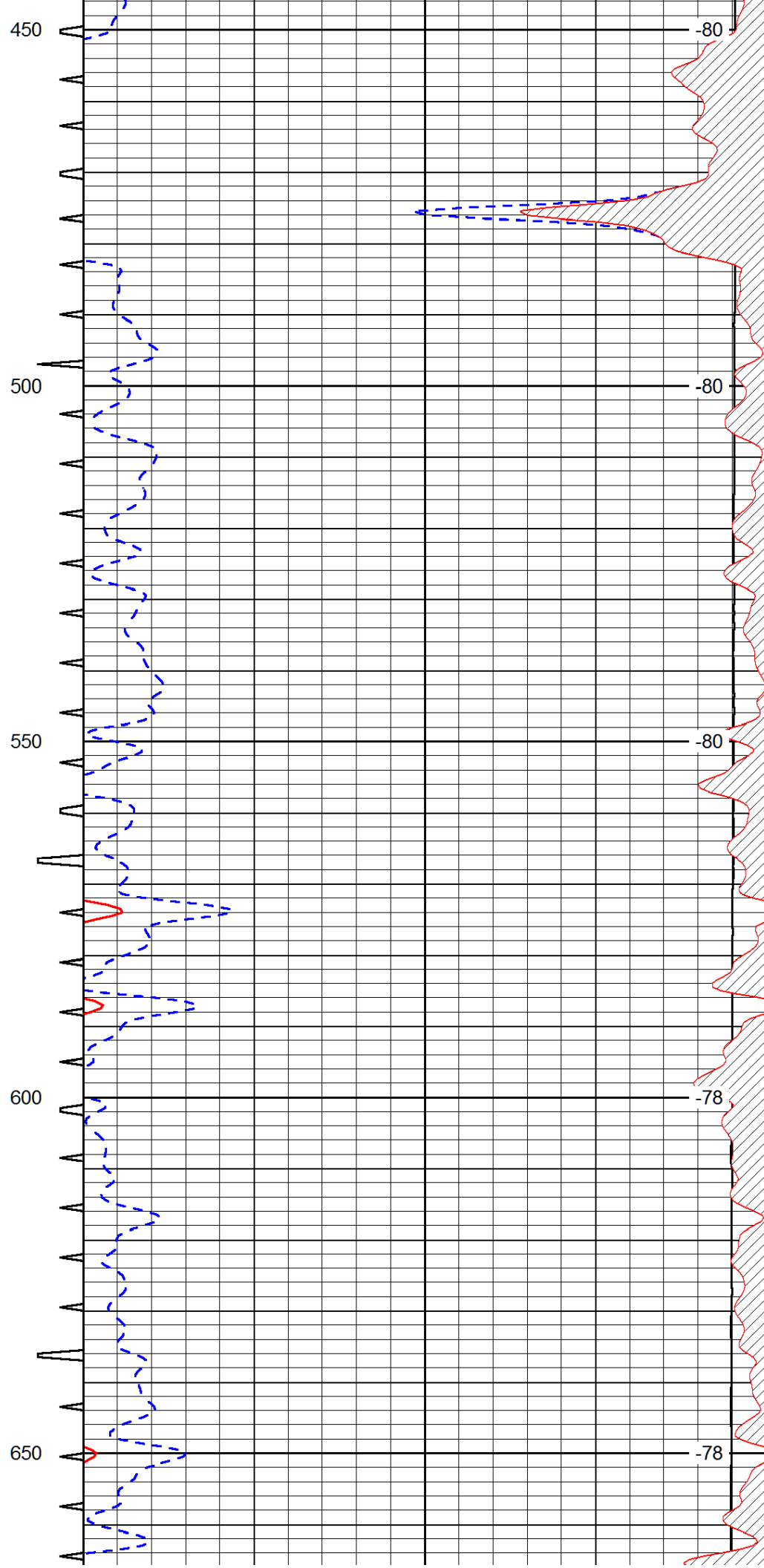
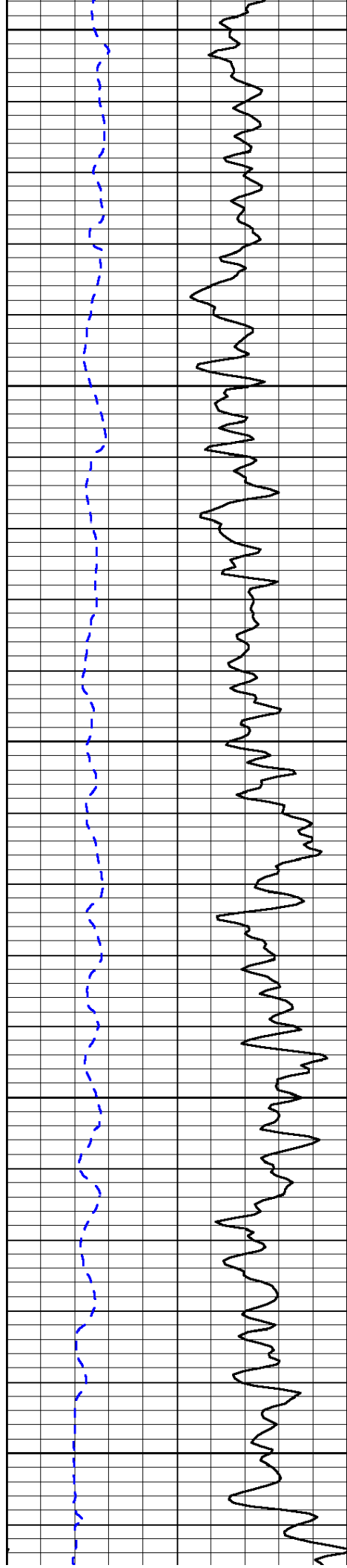
Thank you for using Log-Tech, Inc.
(785) 625-3858

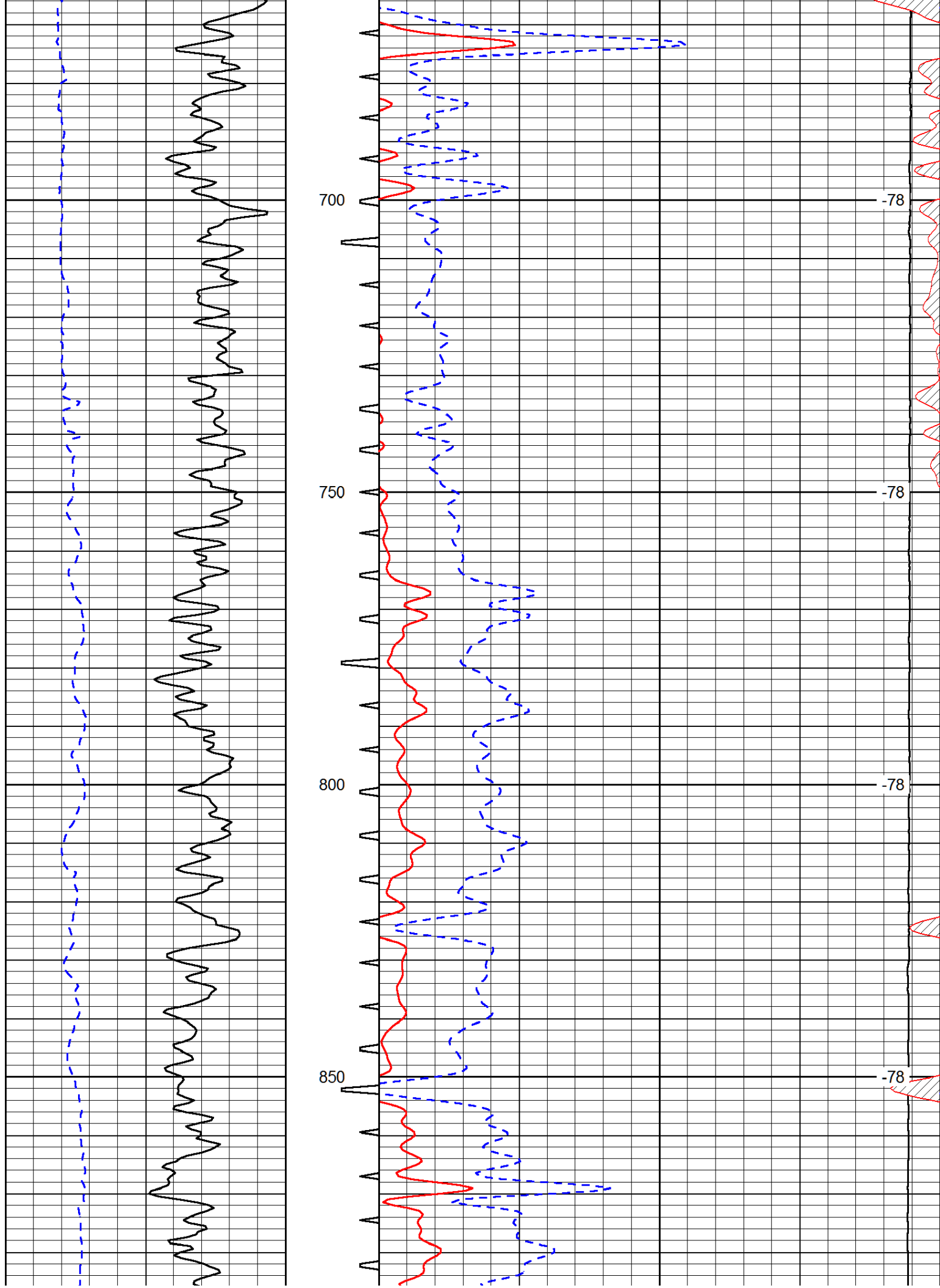
Beardsley,
North to CC rd, 1/4 West,
North into

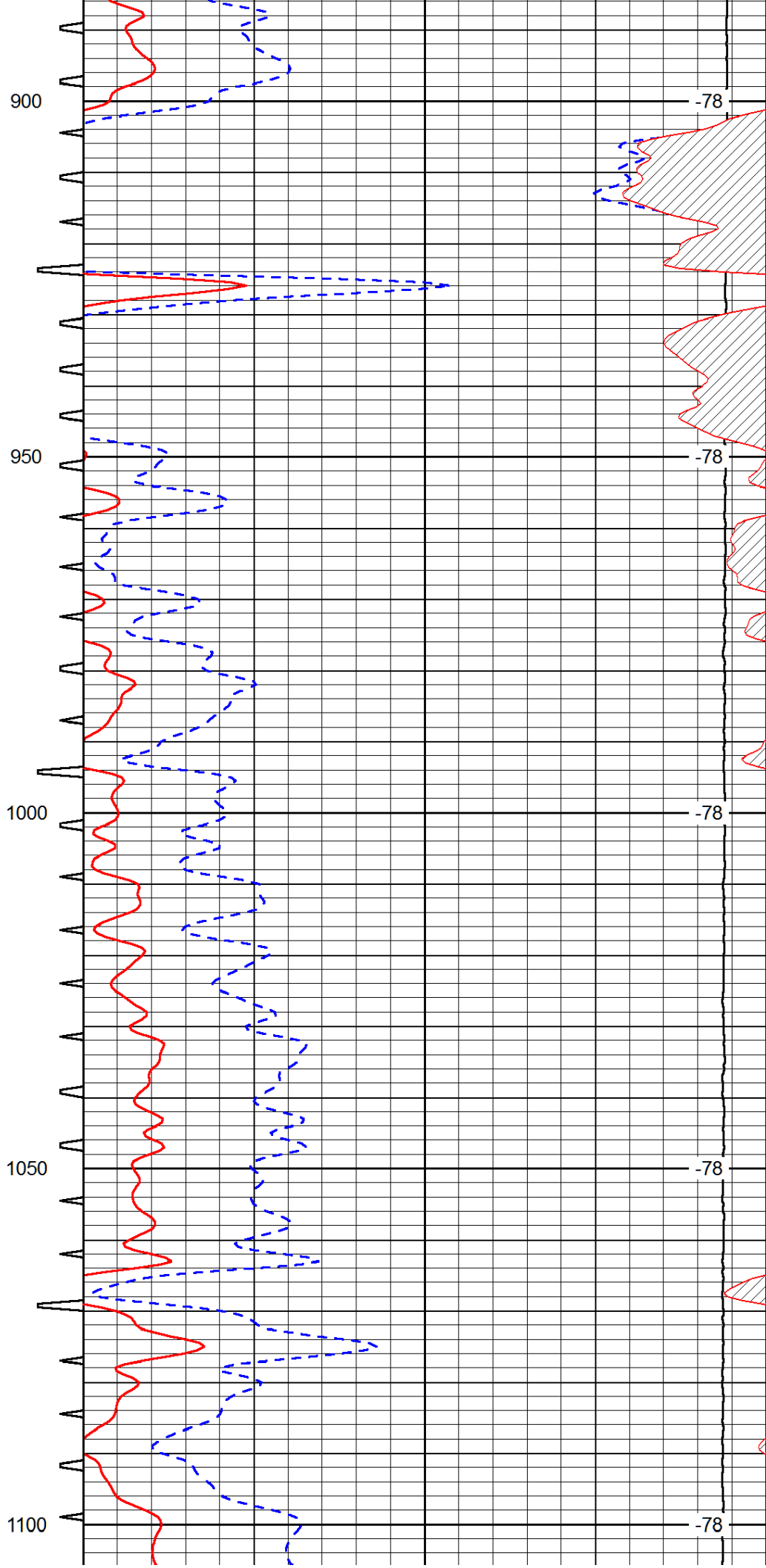
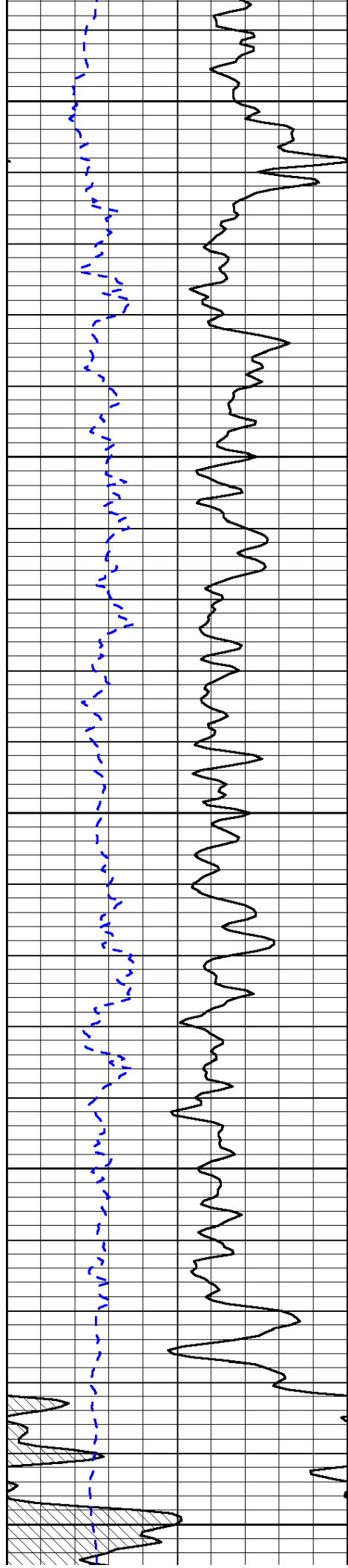
Database File: murfin_dan_1_9_hd.db
Dataset Pathname: DIL/murstk
Presentation Format: sonic
Dataset Creation: Thu Jul 17 22:37:11 2014
Charted by: Depth in Feet scaled 1:240

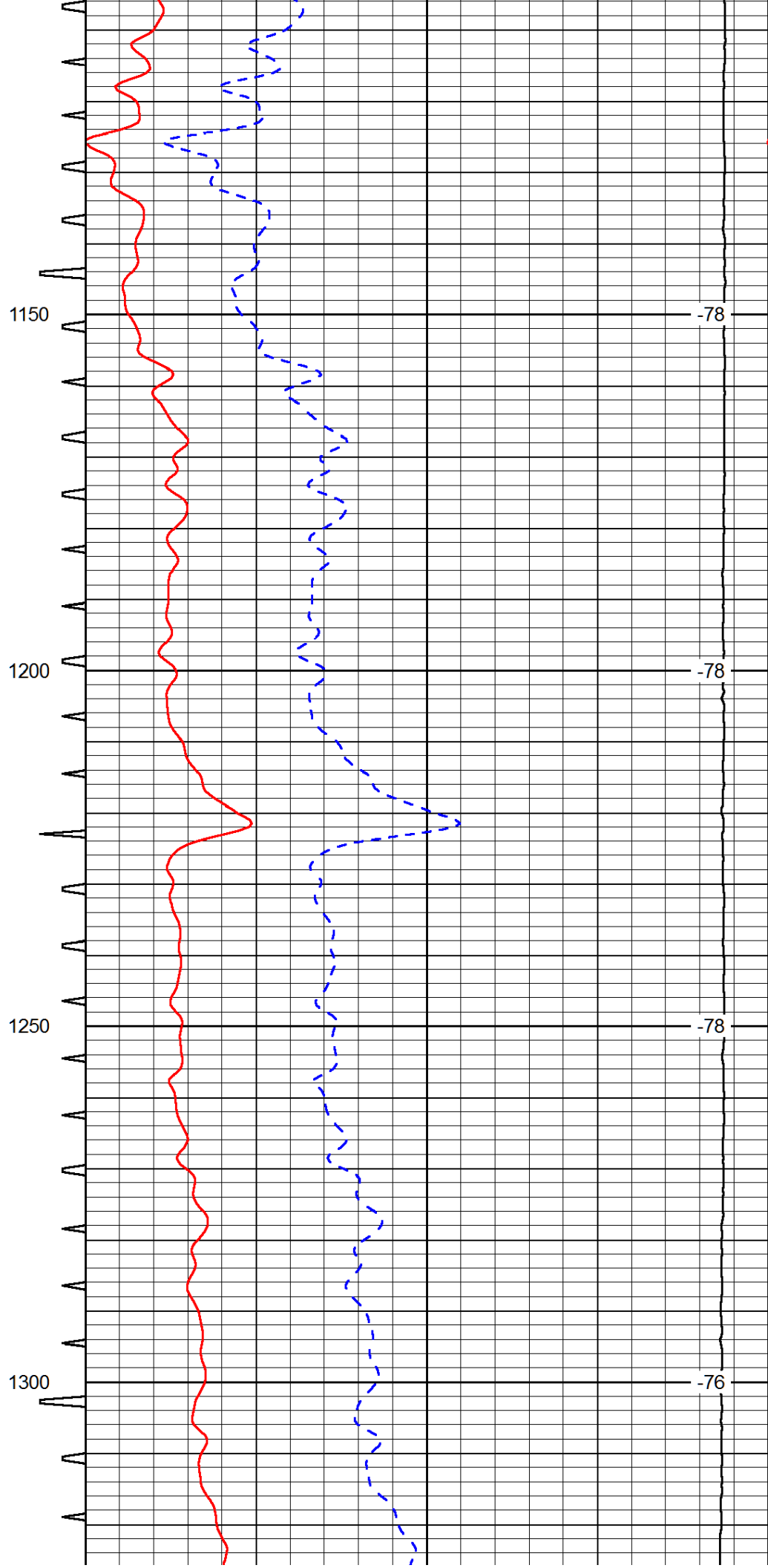
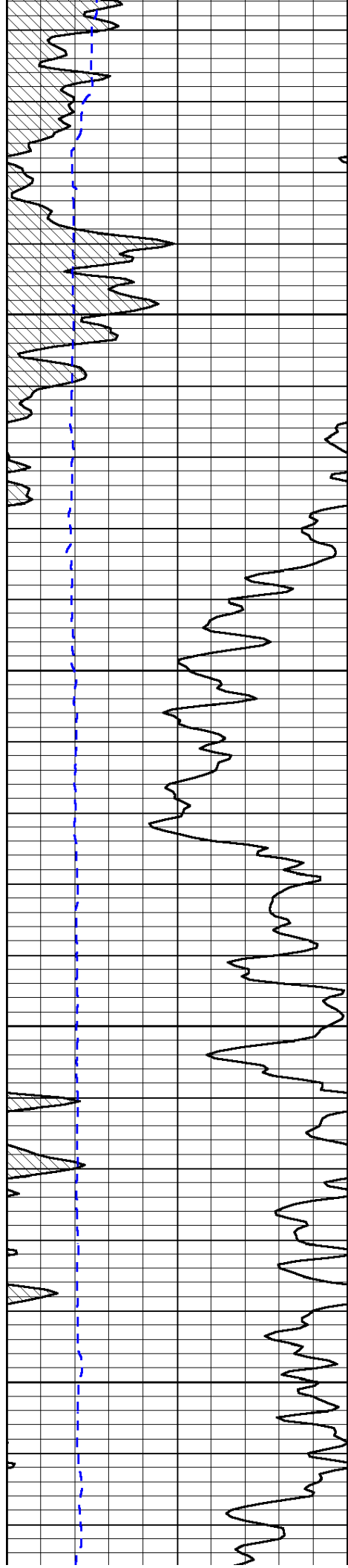
0	Gamma Ray	150	Sonic Int	140	Delta Time (usec/ft)	40
150	Gamma Ray	300	5	0	Sonic Porosity	-10
6	dCAL (GAPI)	16		15000	LTEN (lb)	0
						LSPD

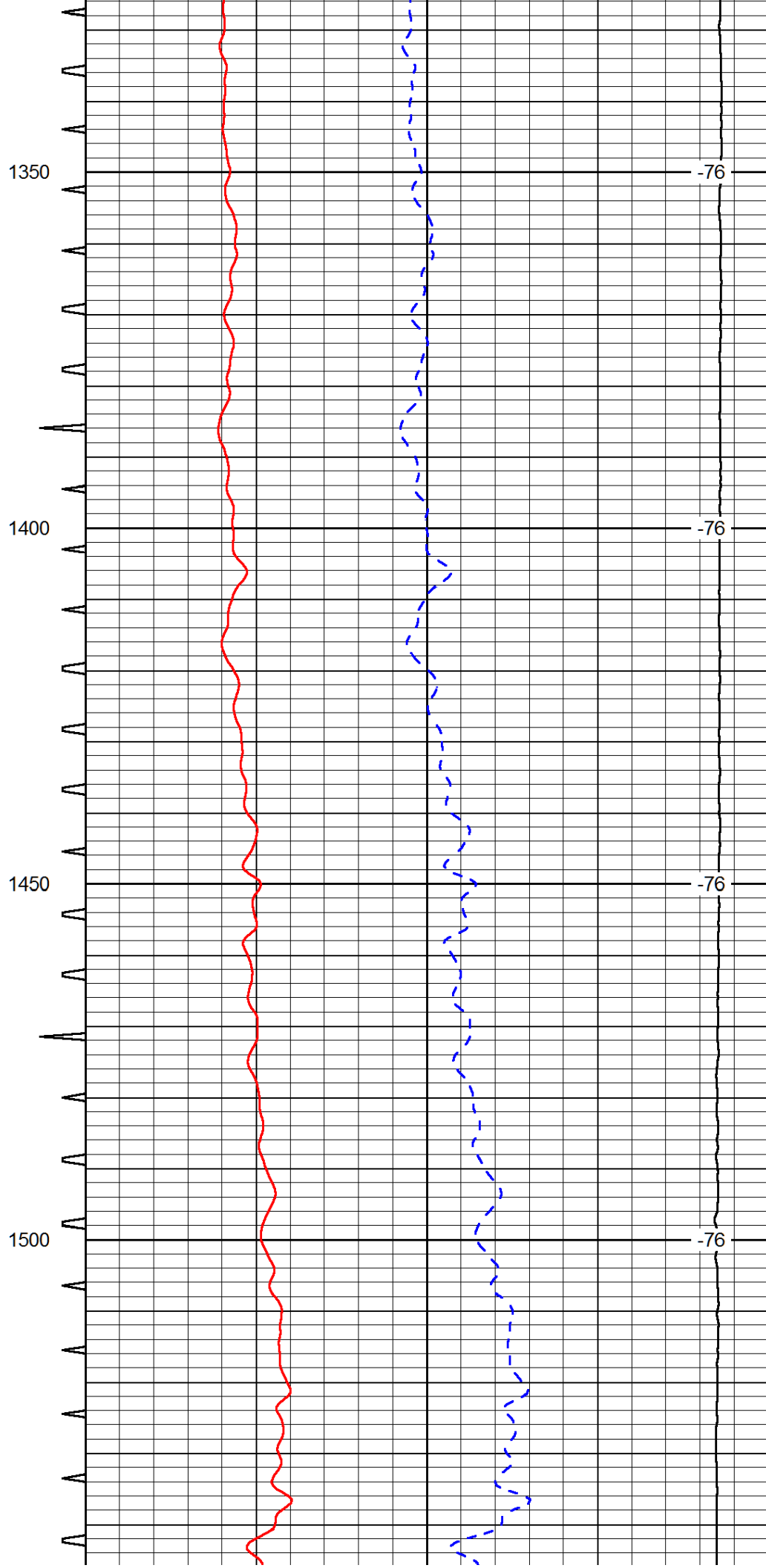
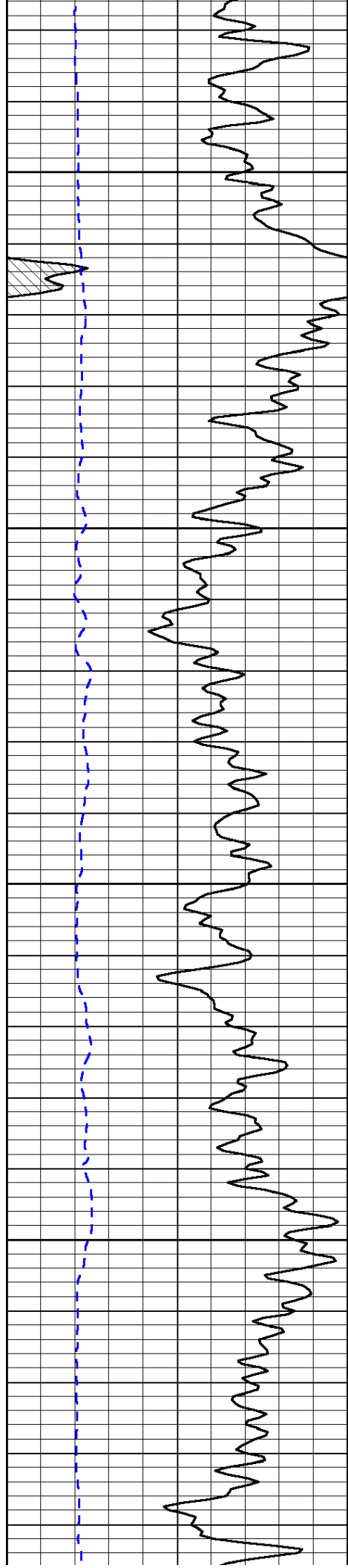


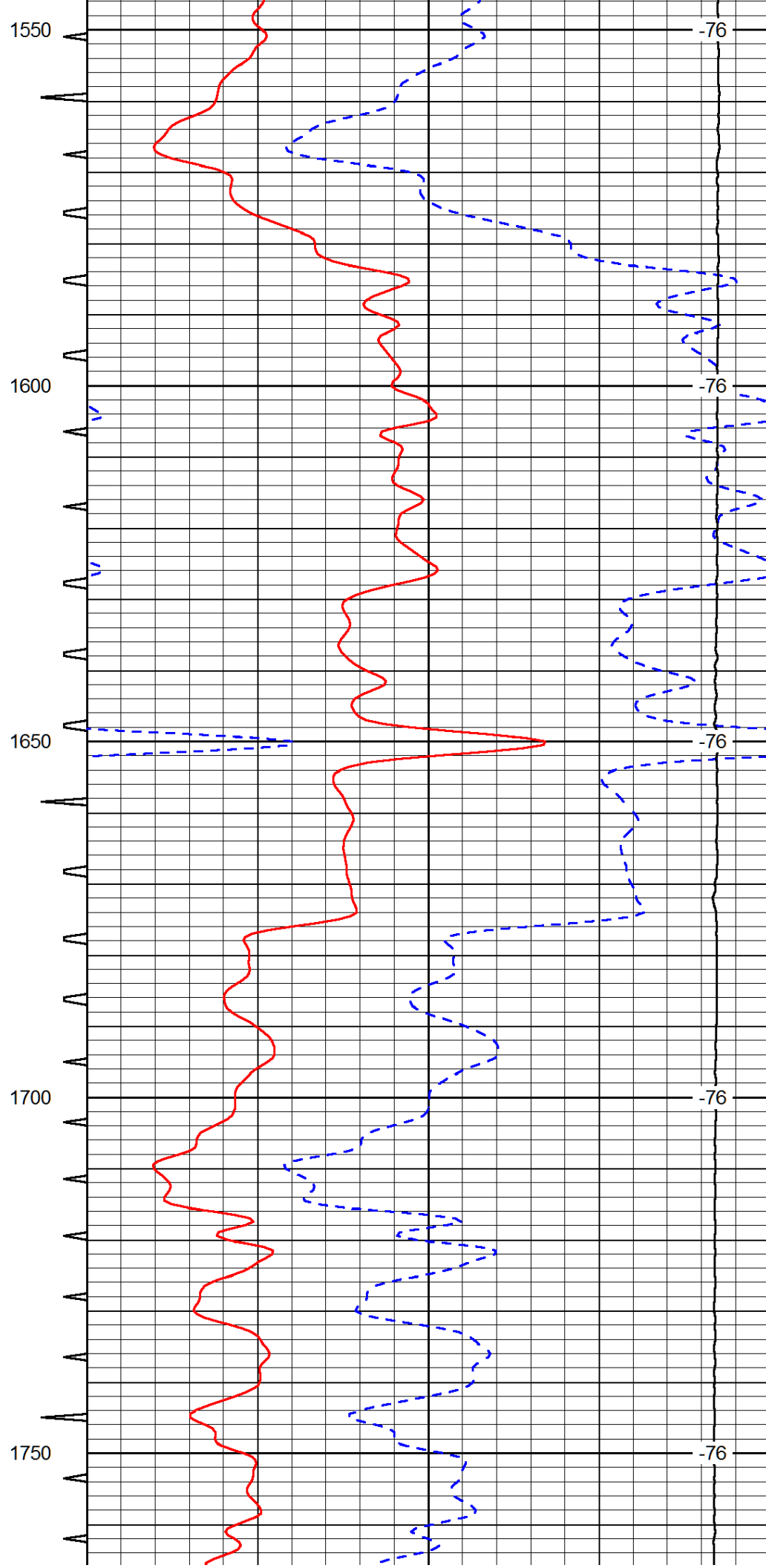
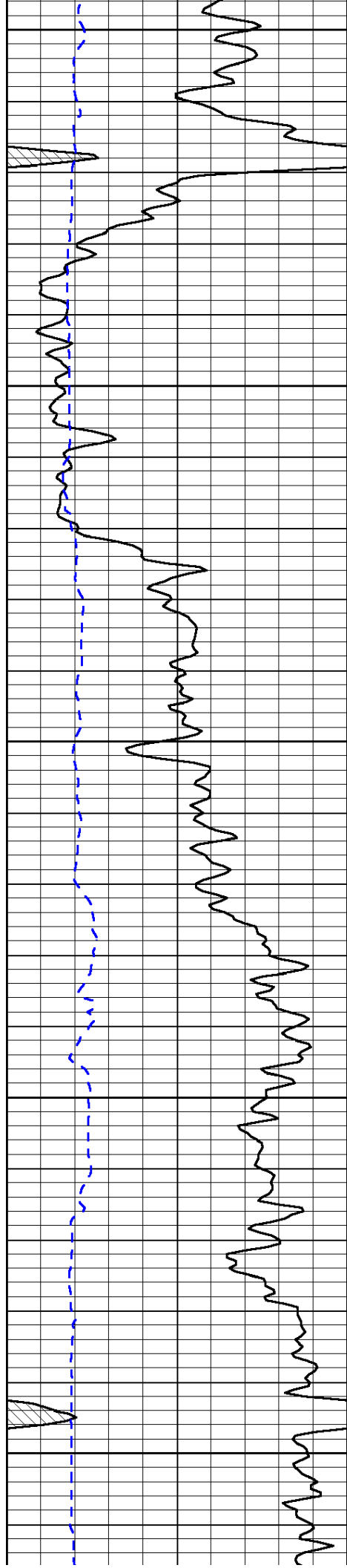


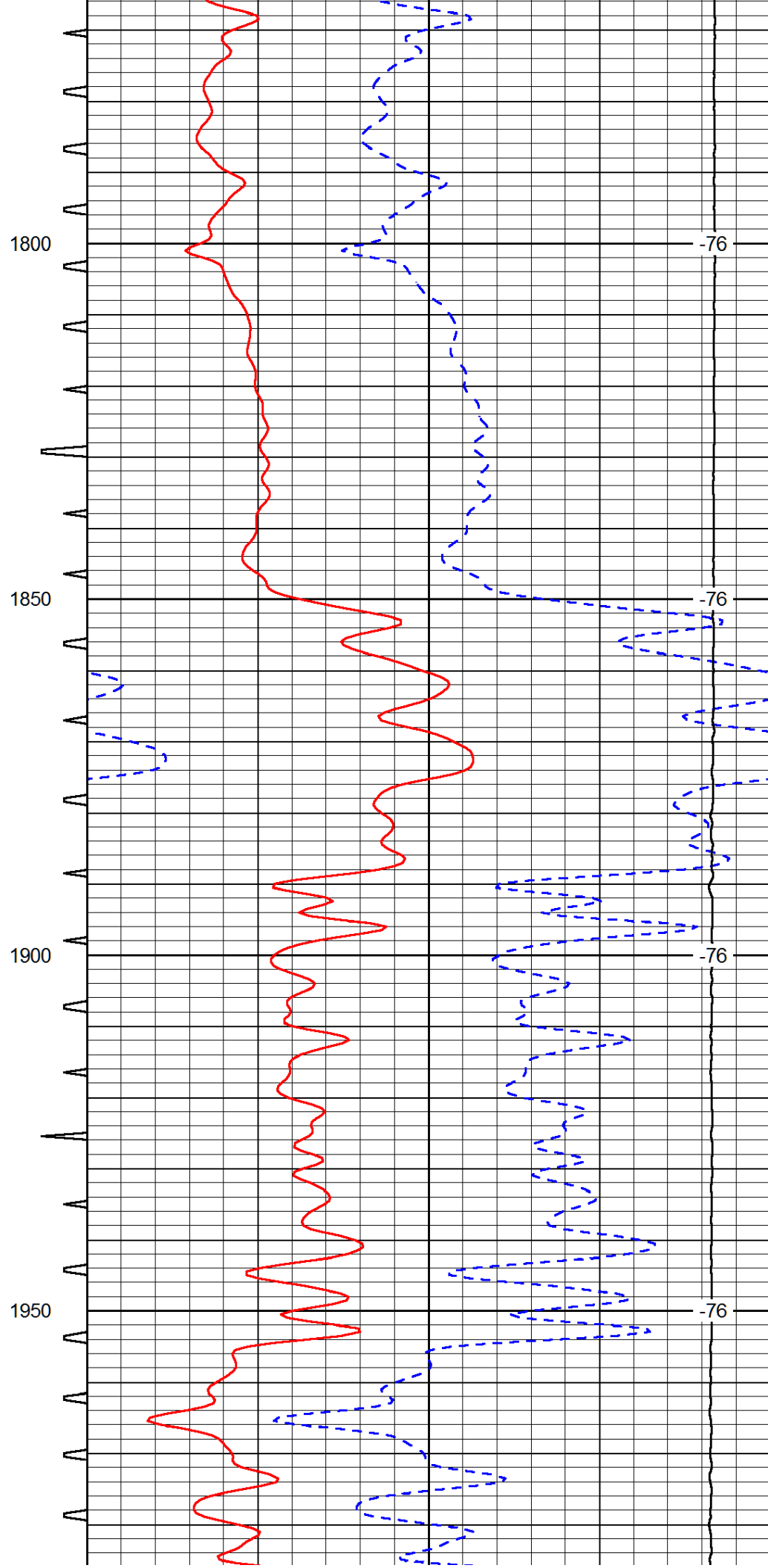
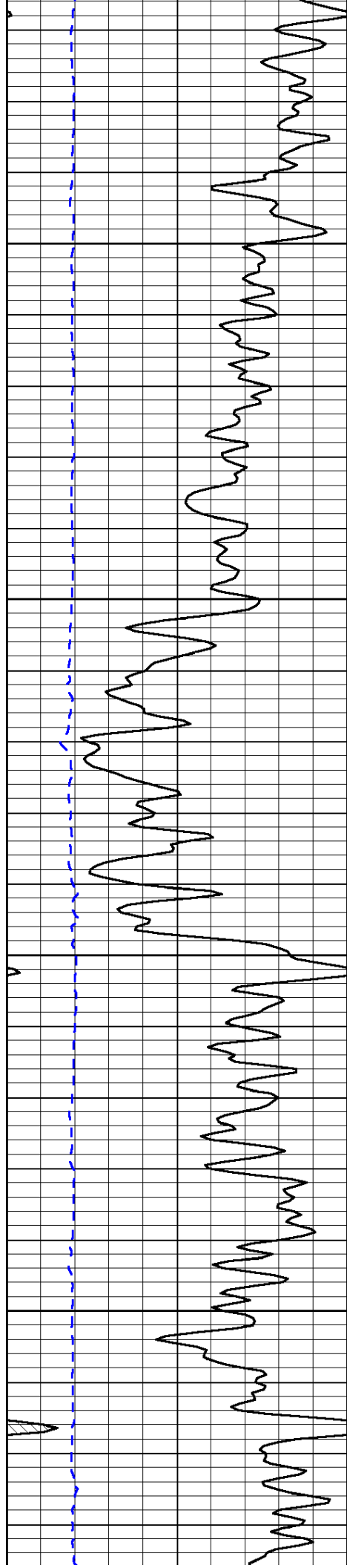


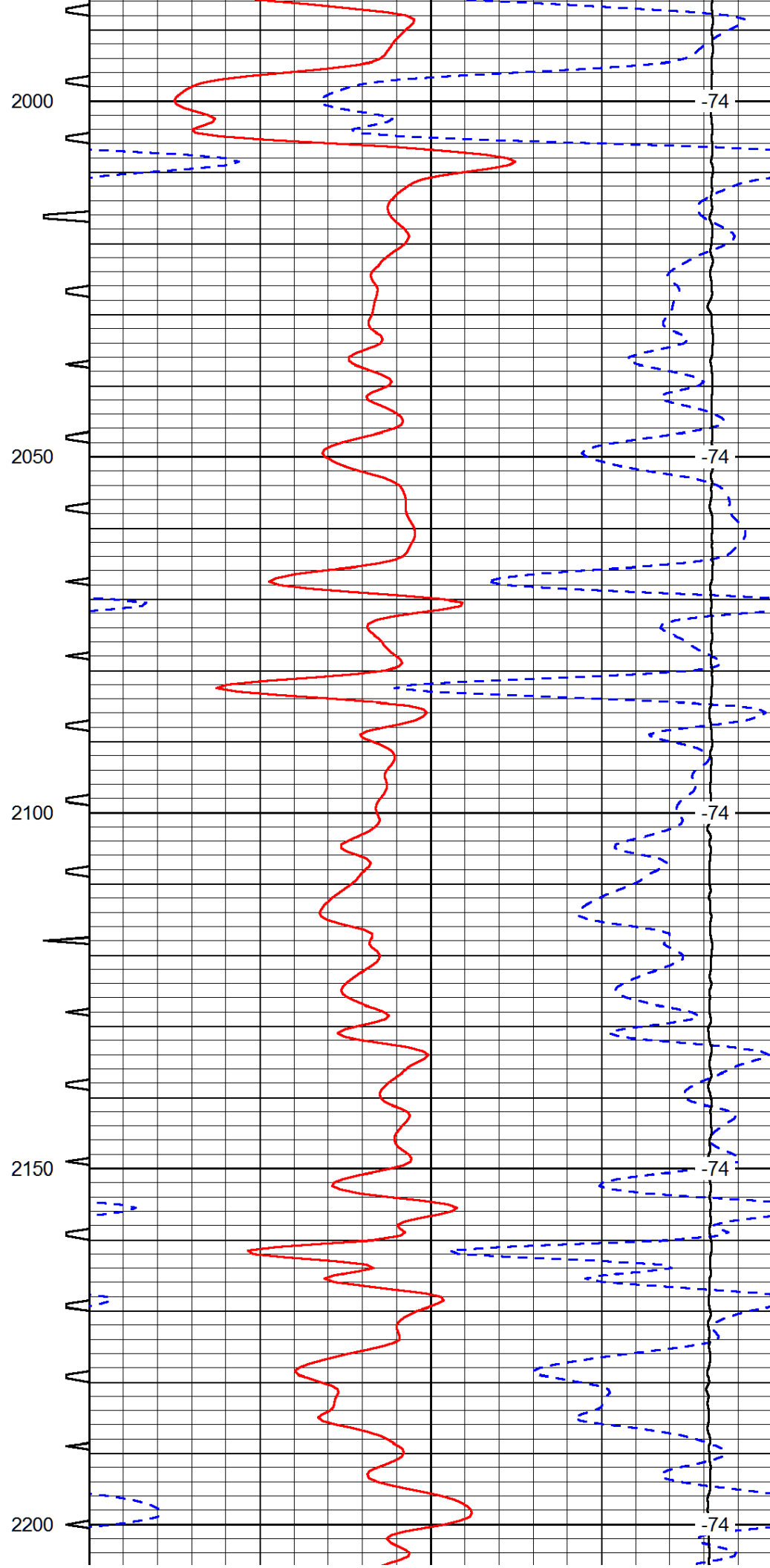
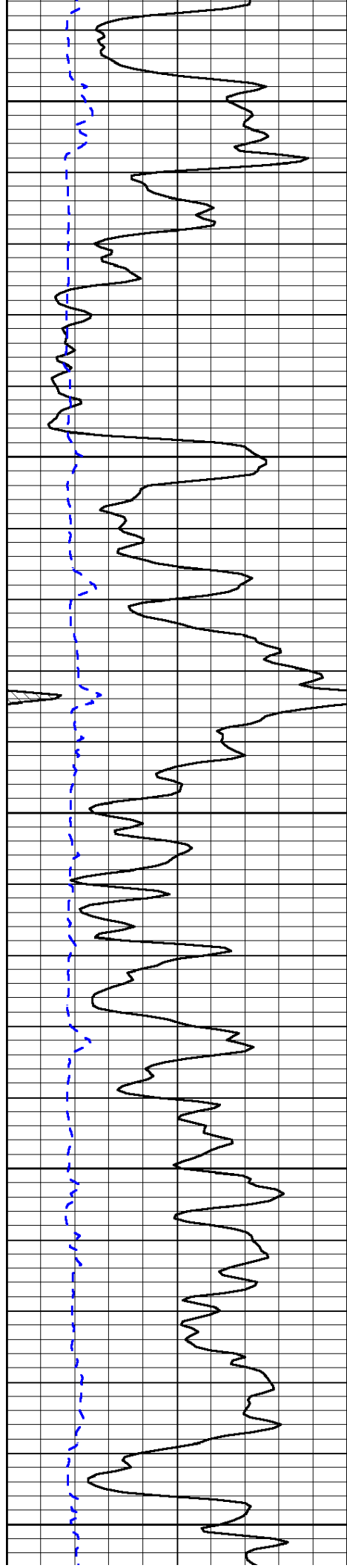


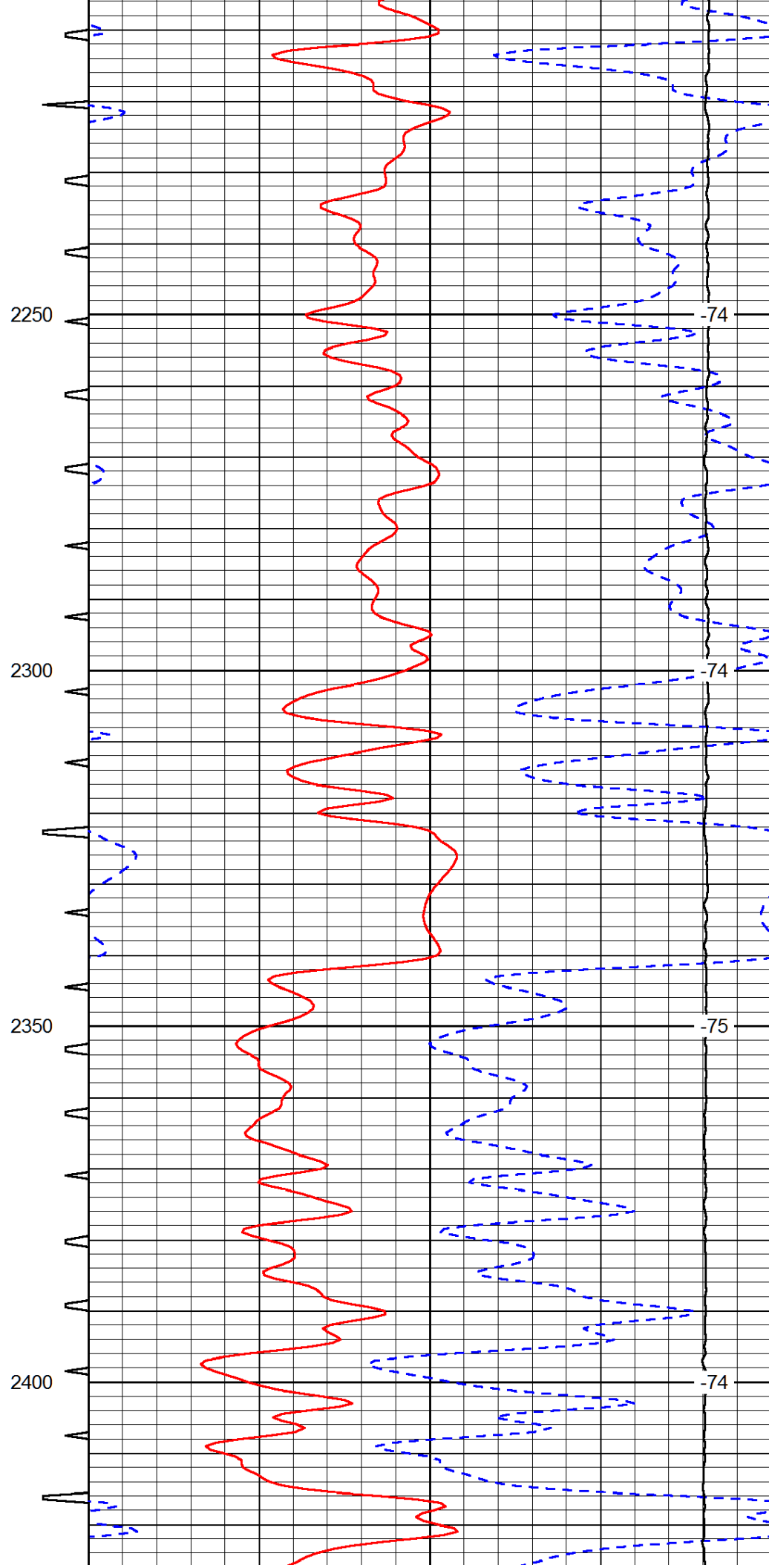
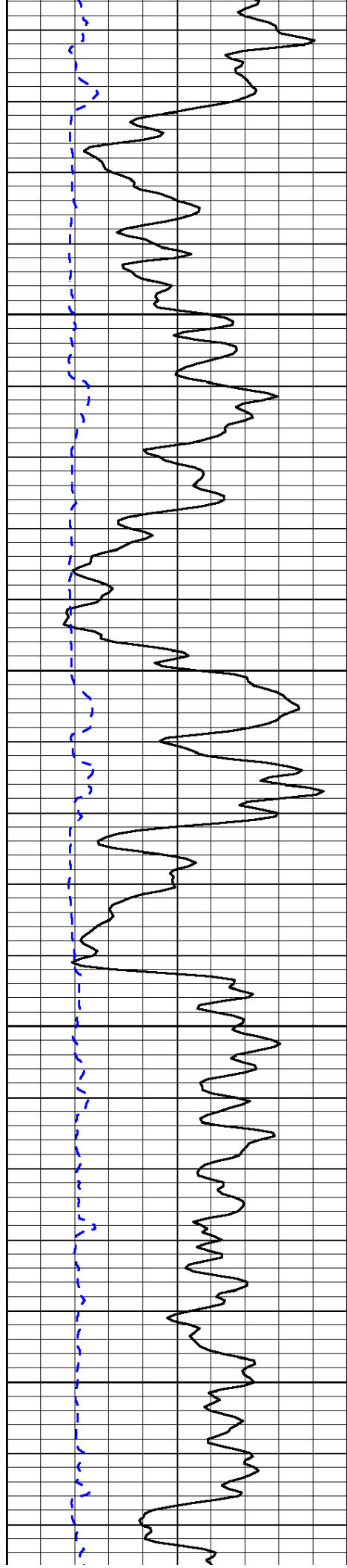


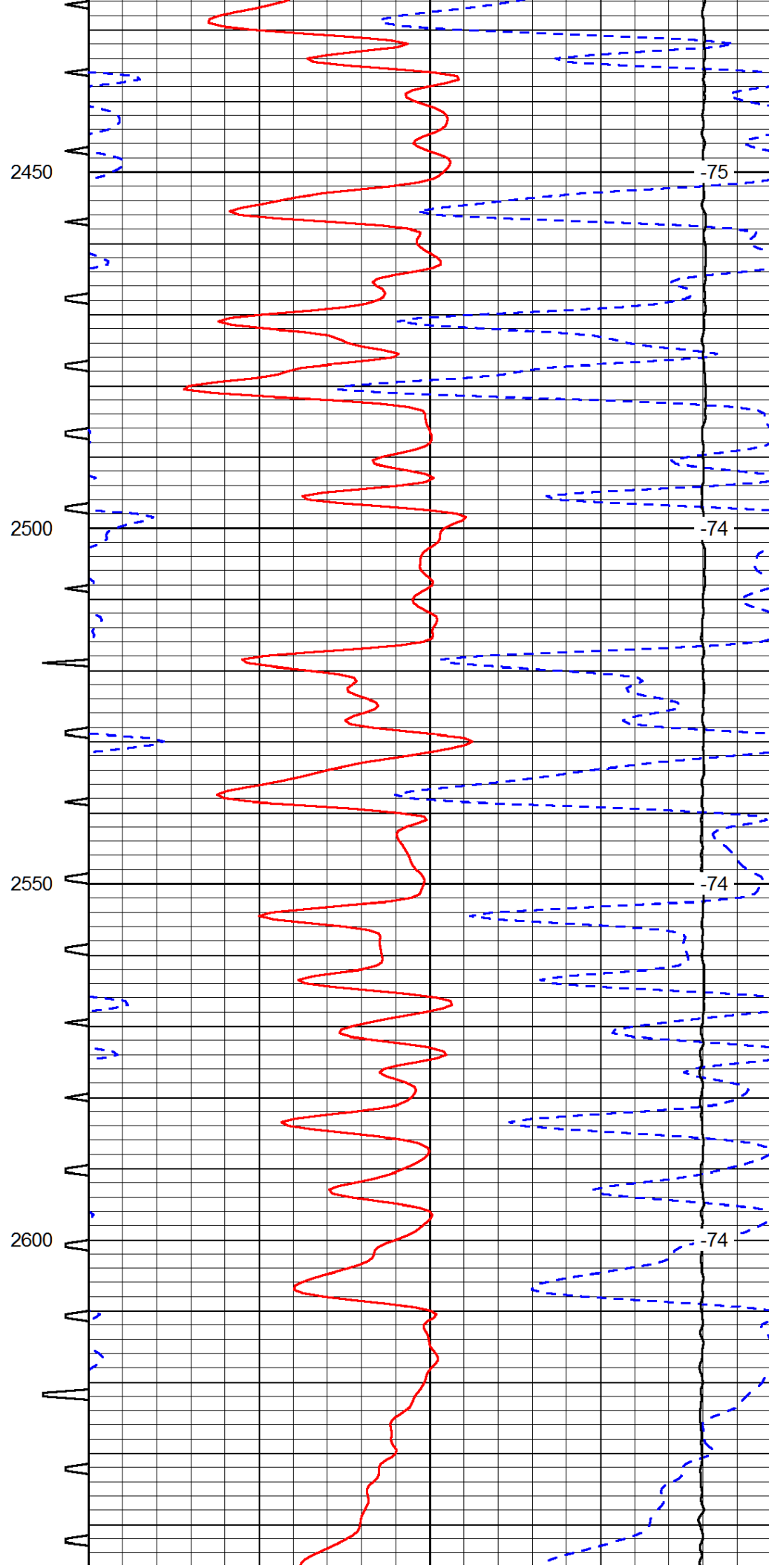
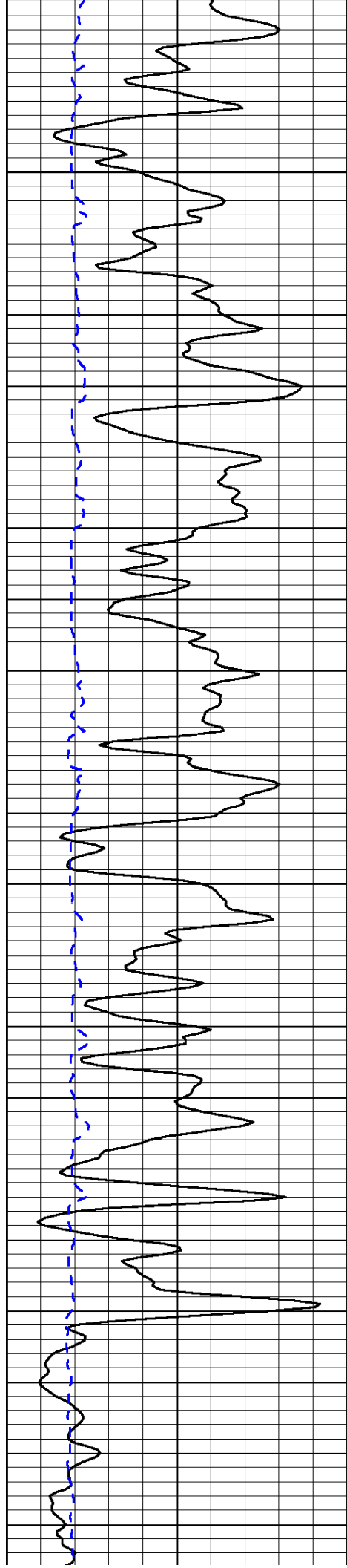


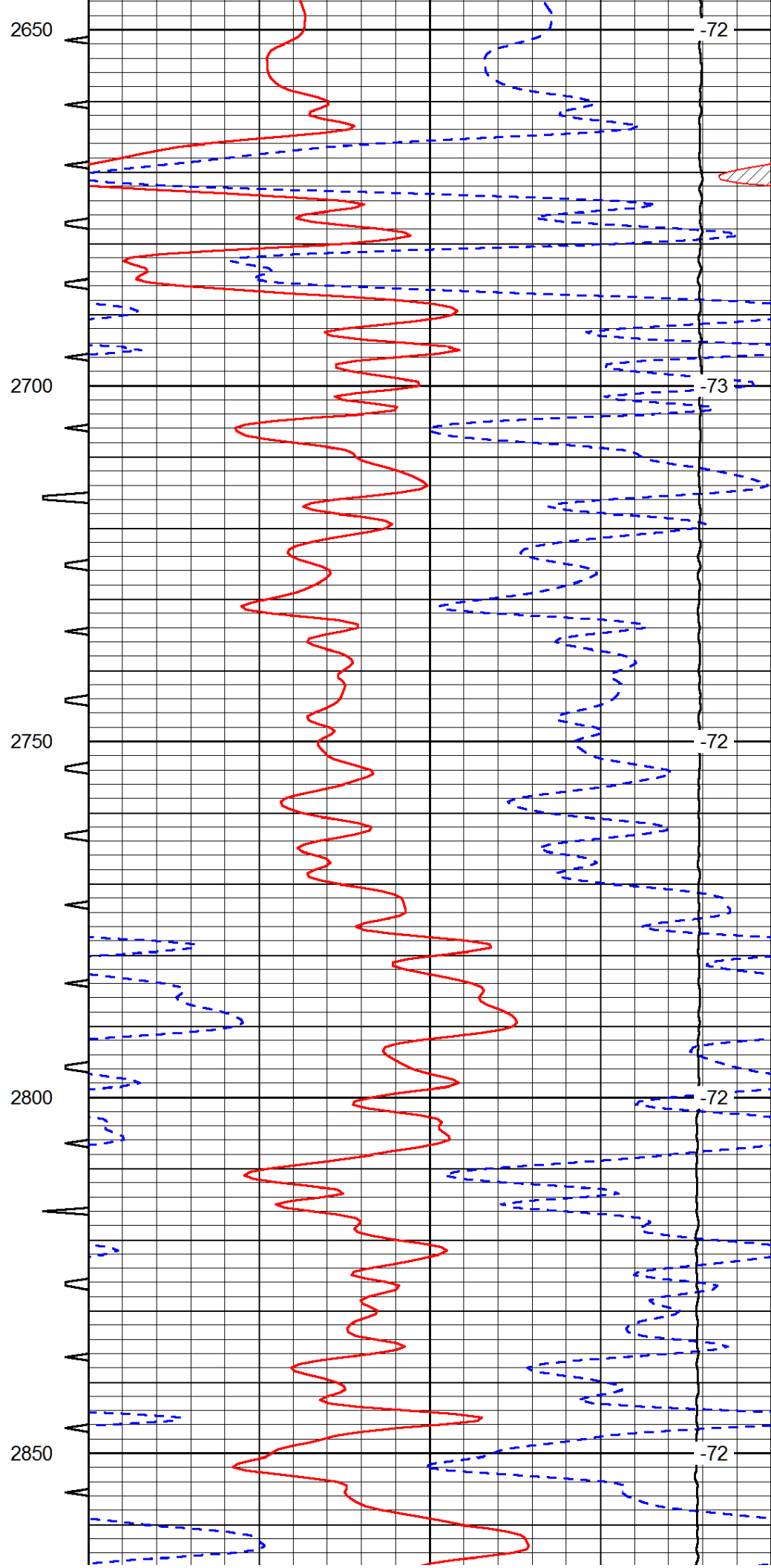
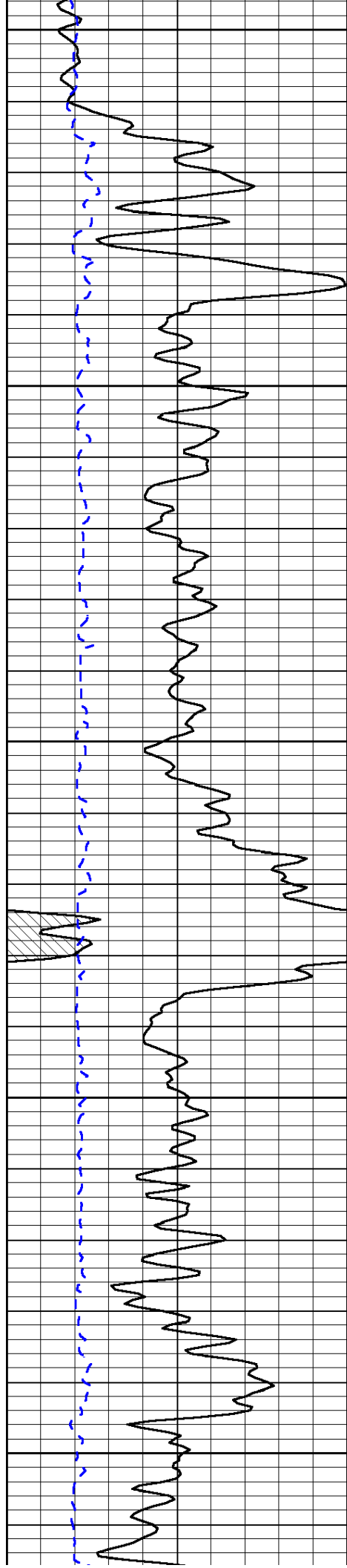


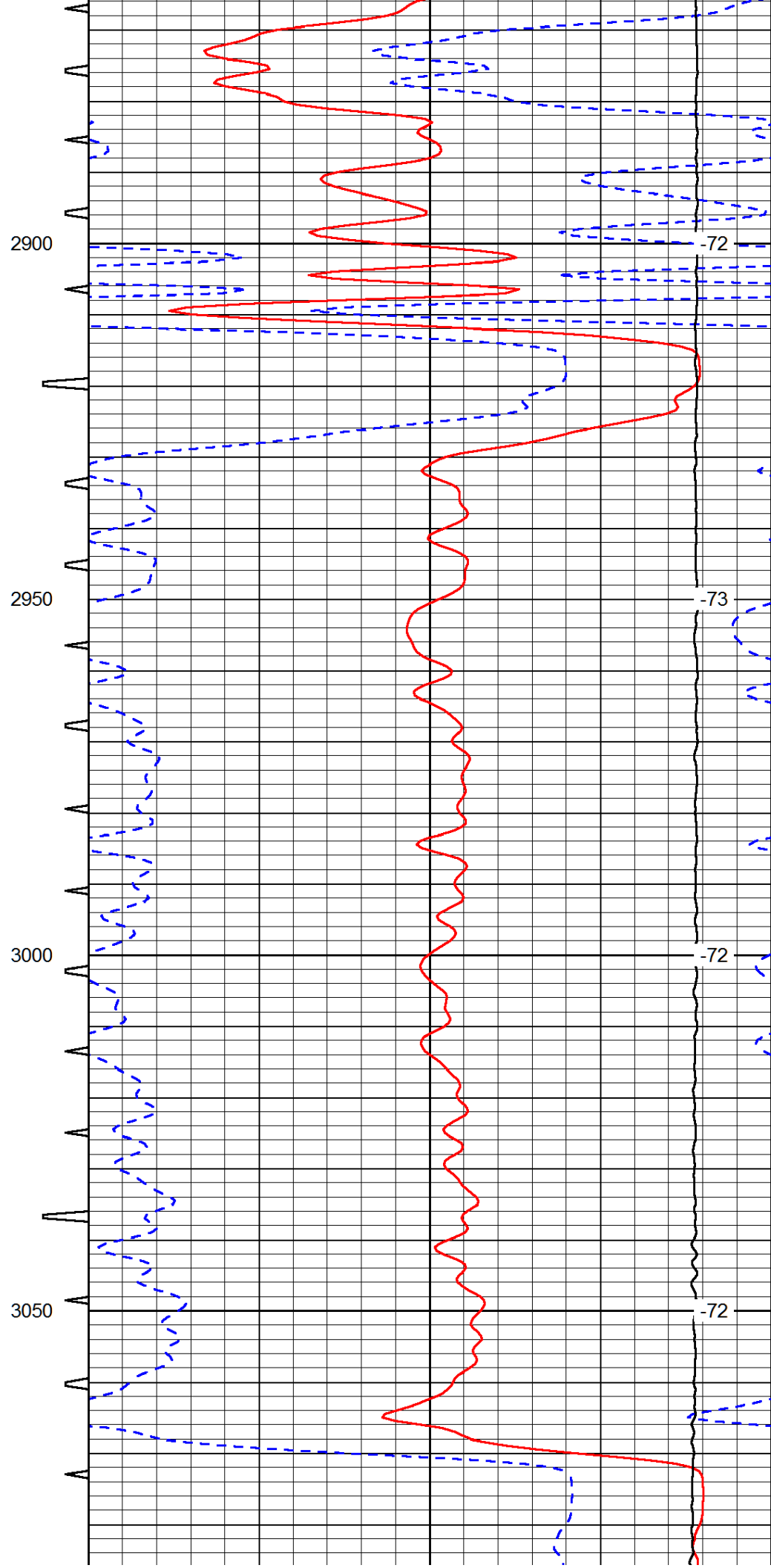
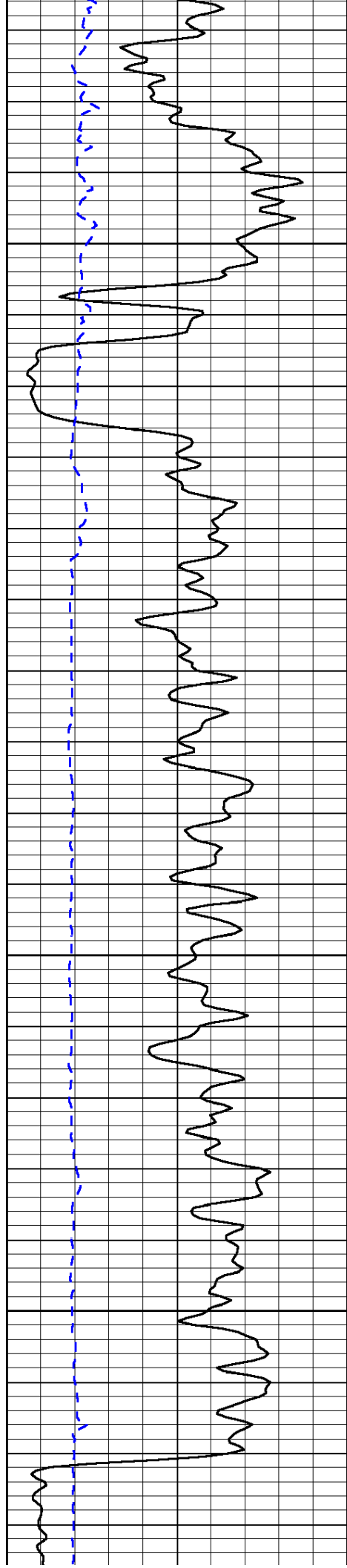


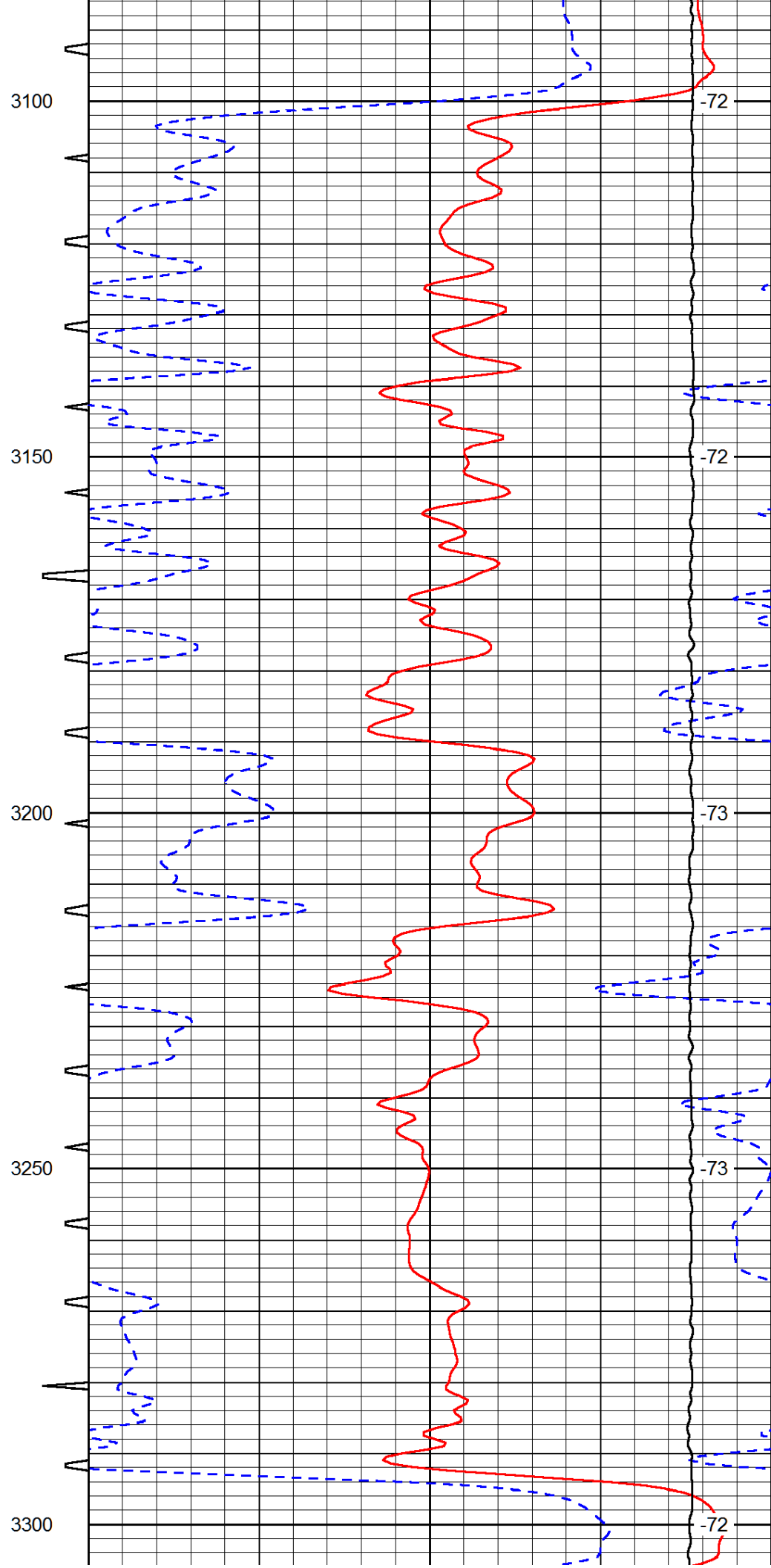
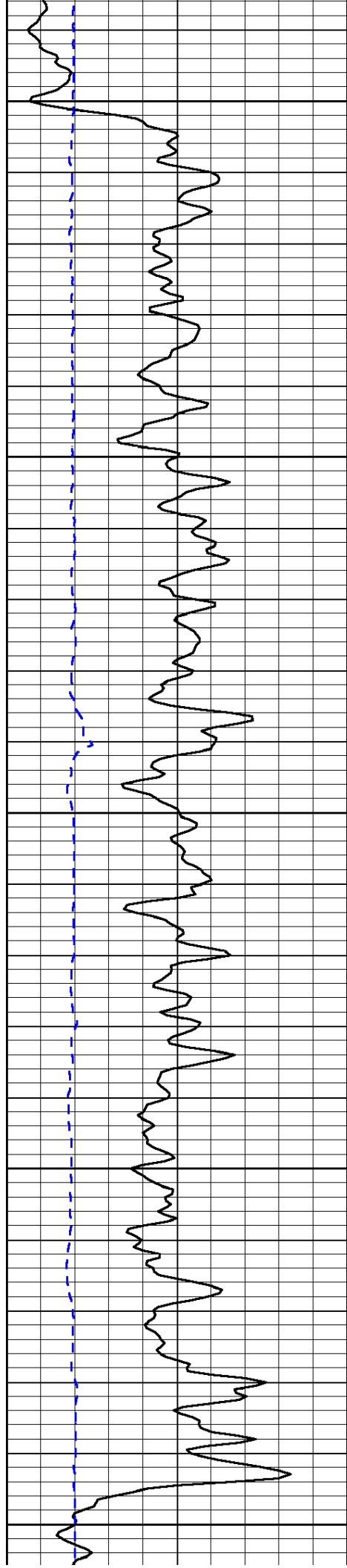


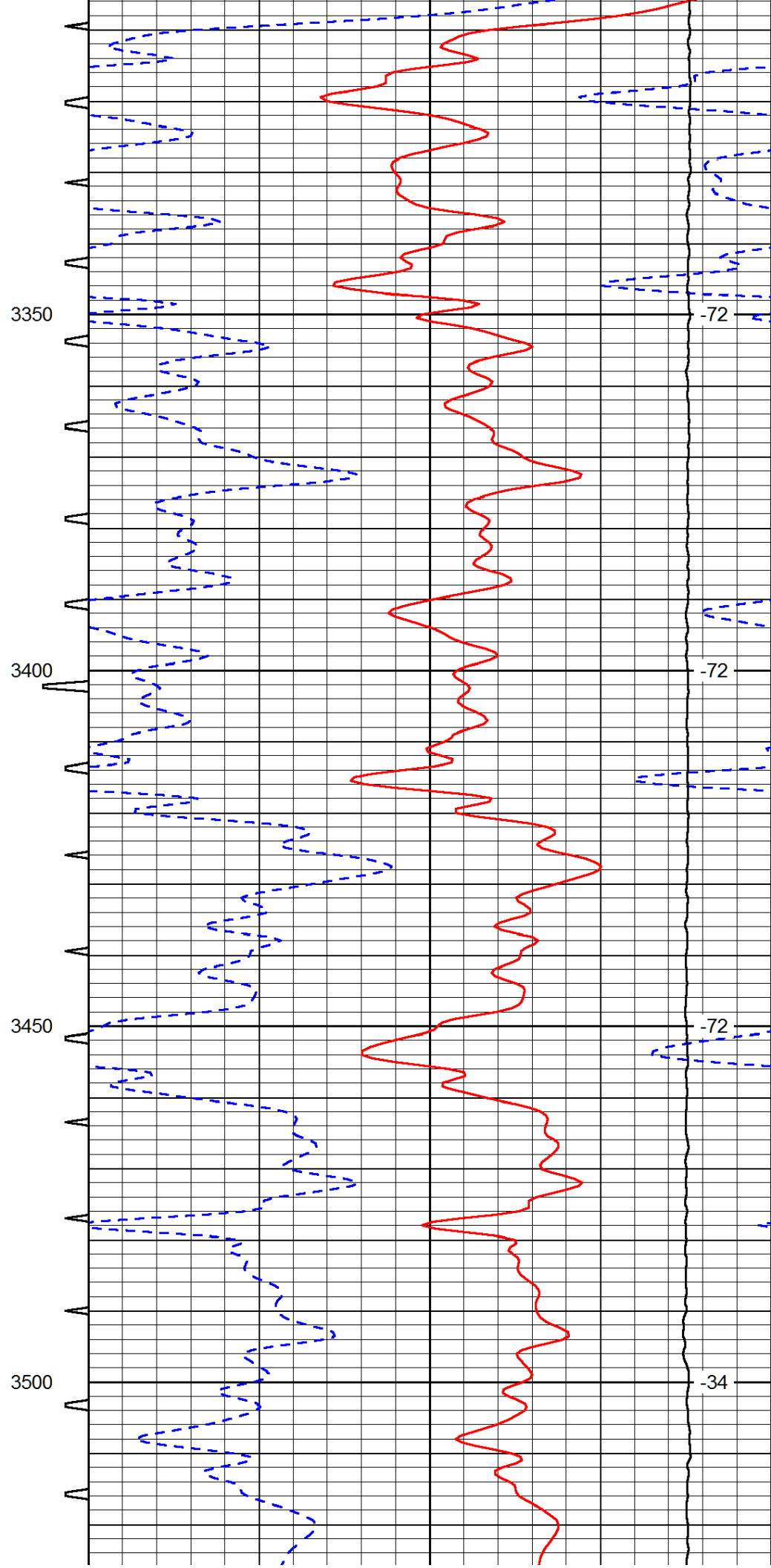
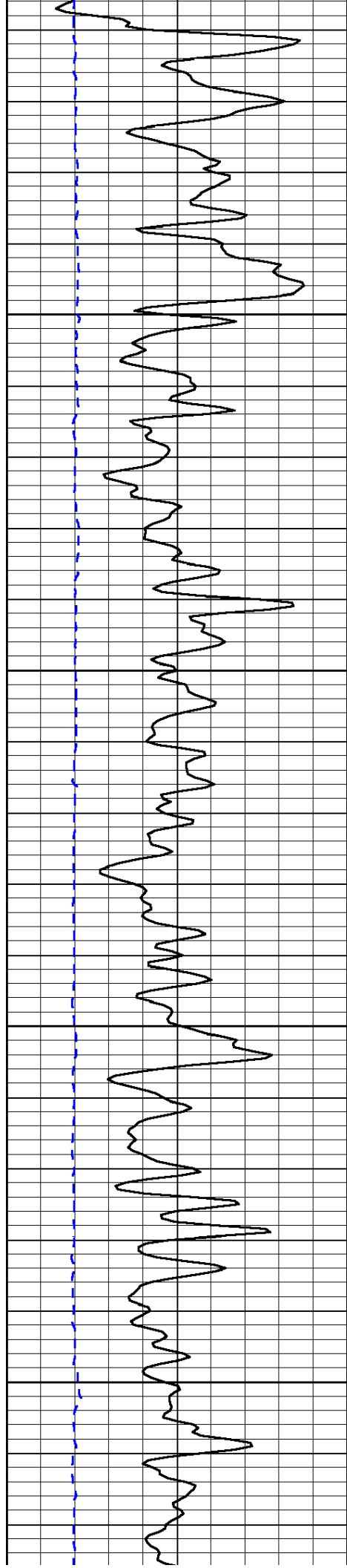


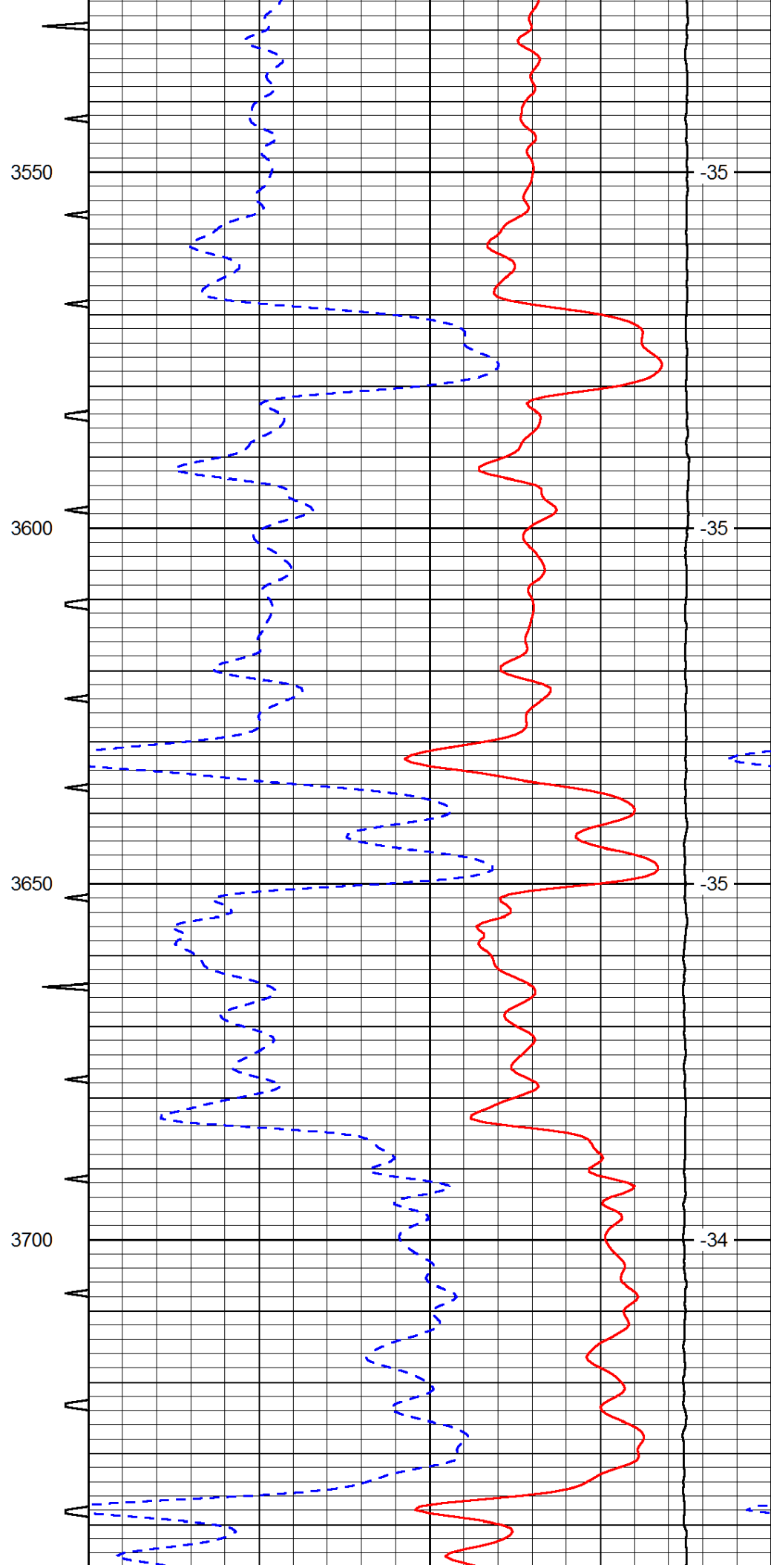
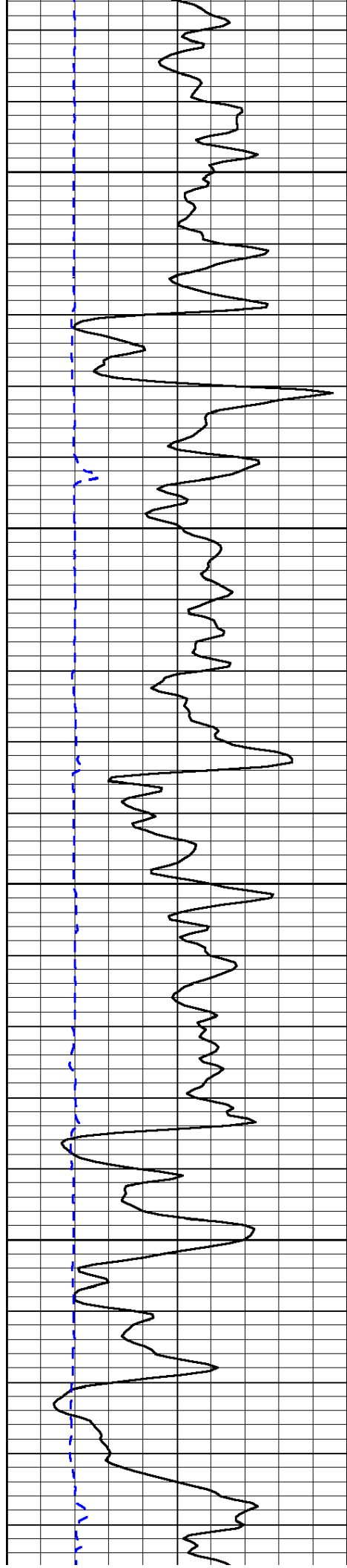


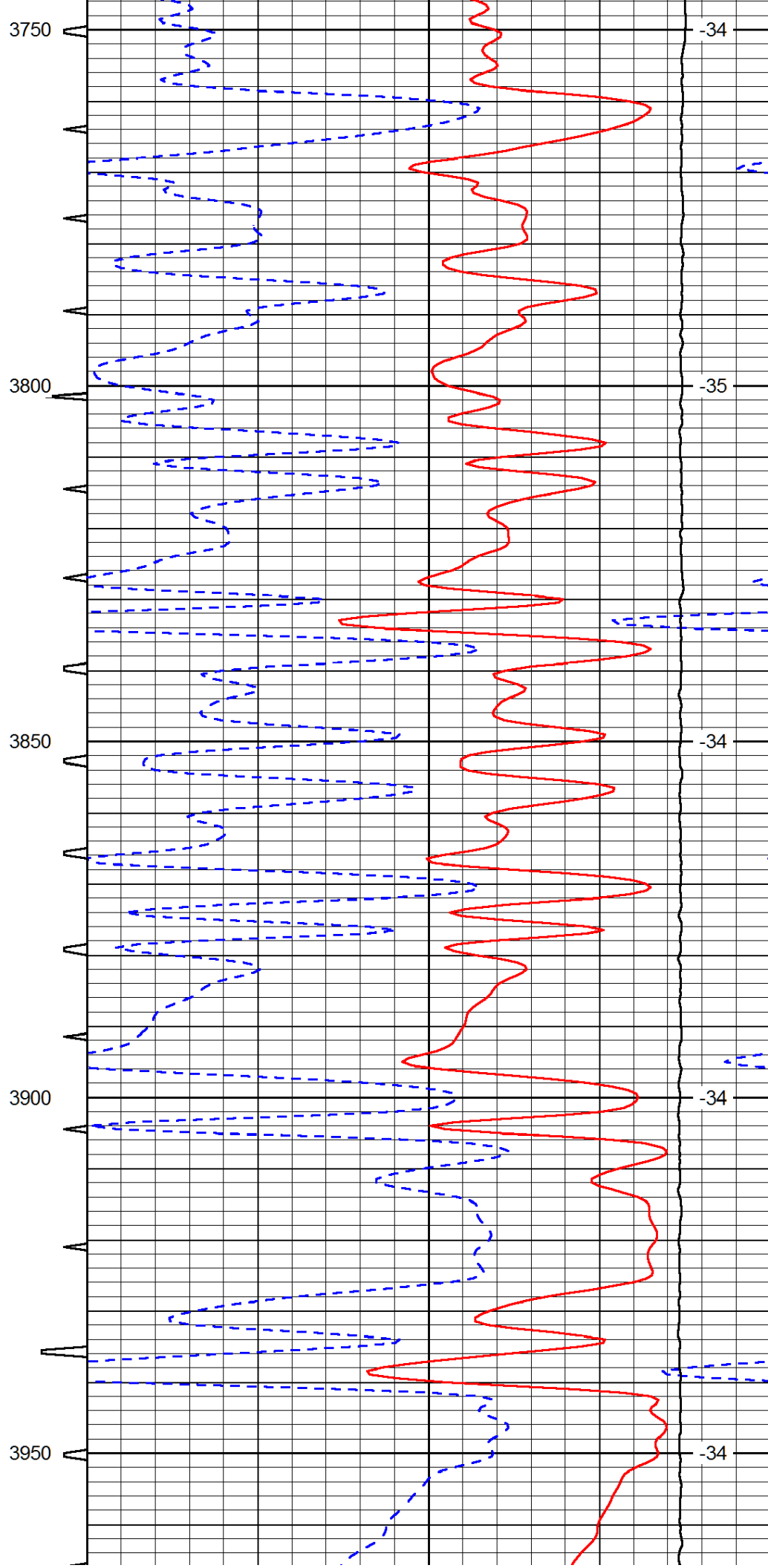
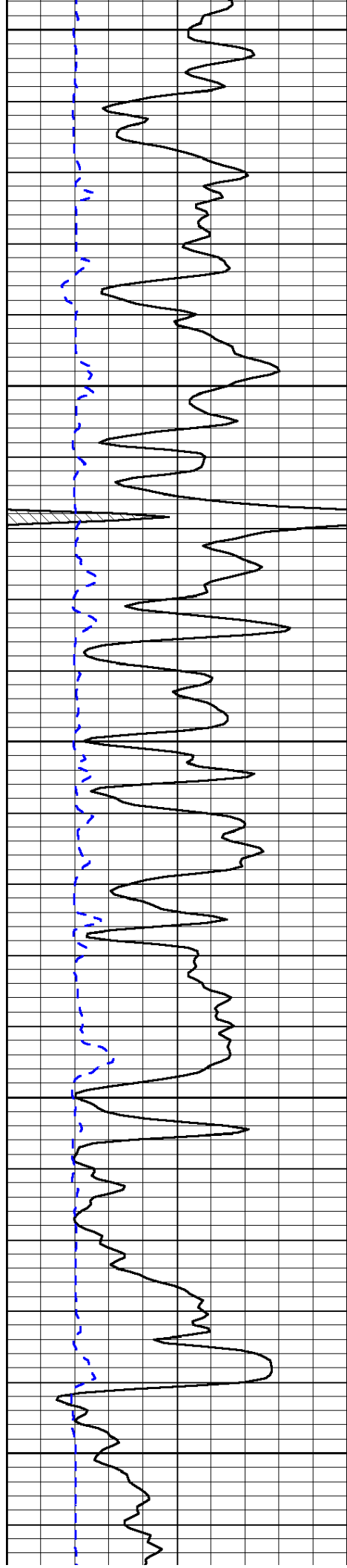


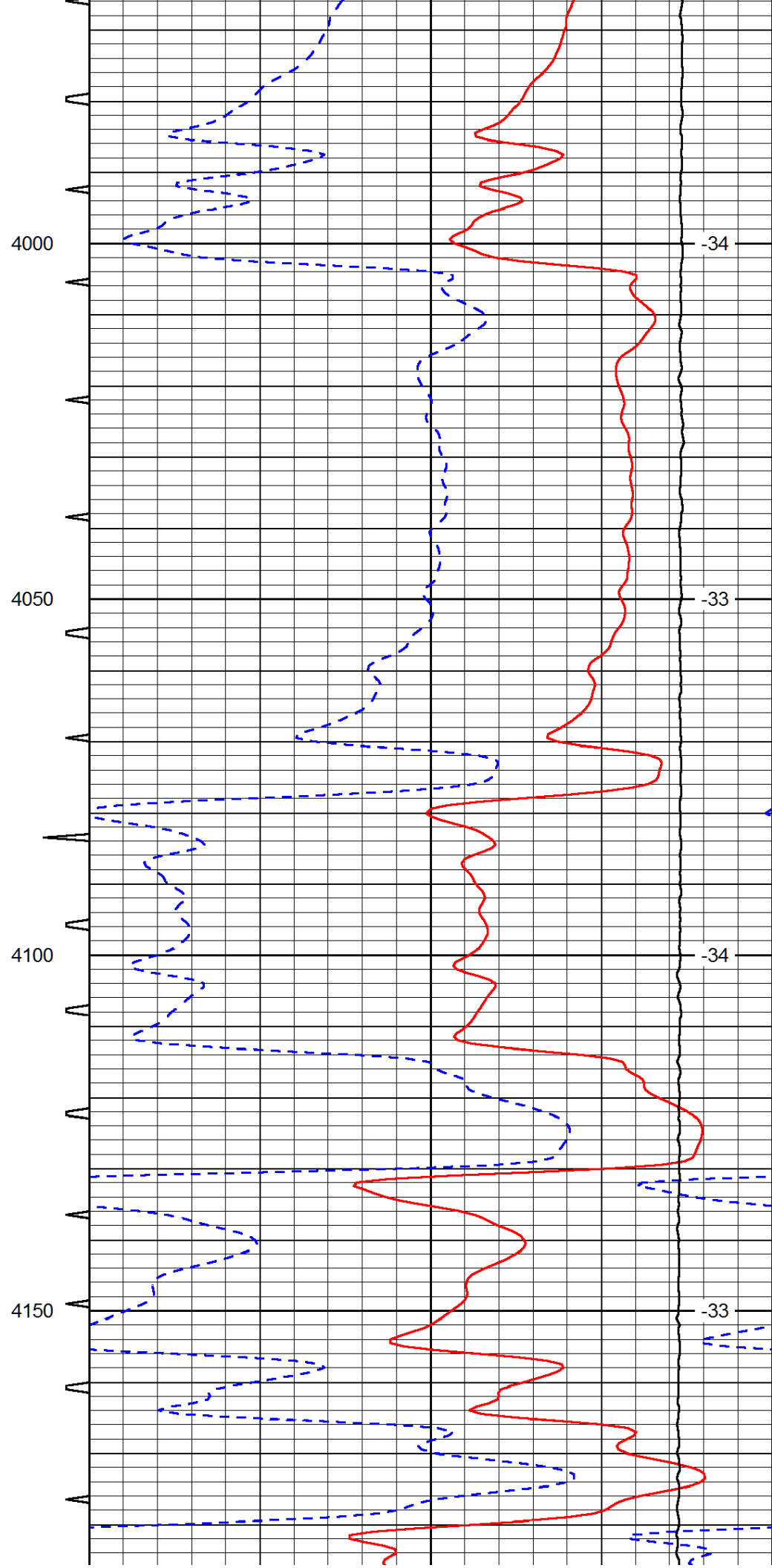
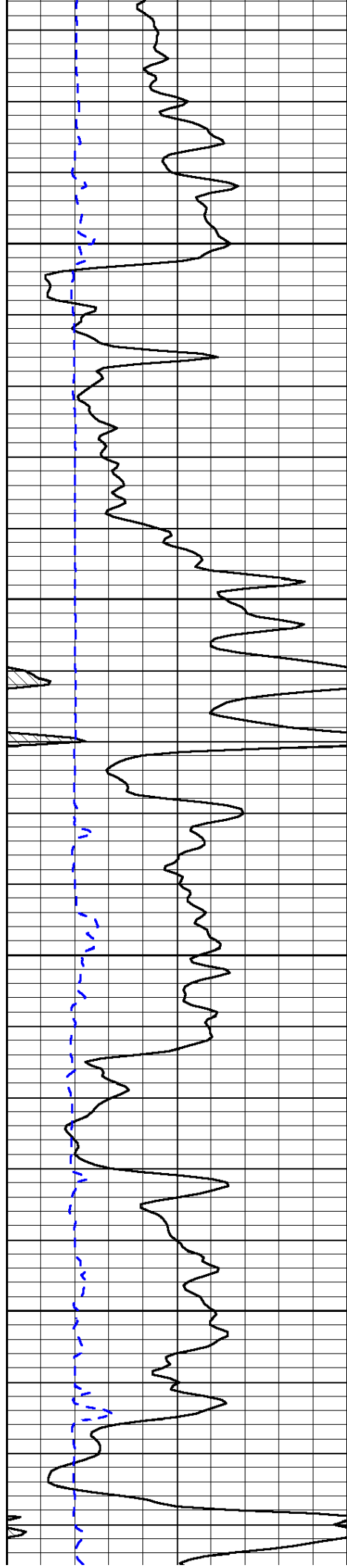


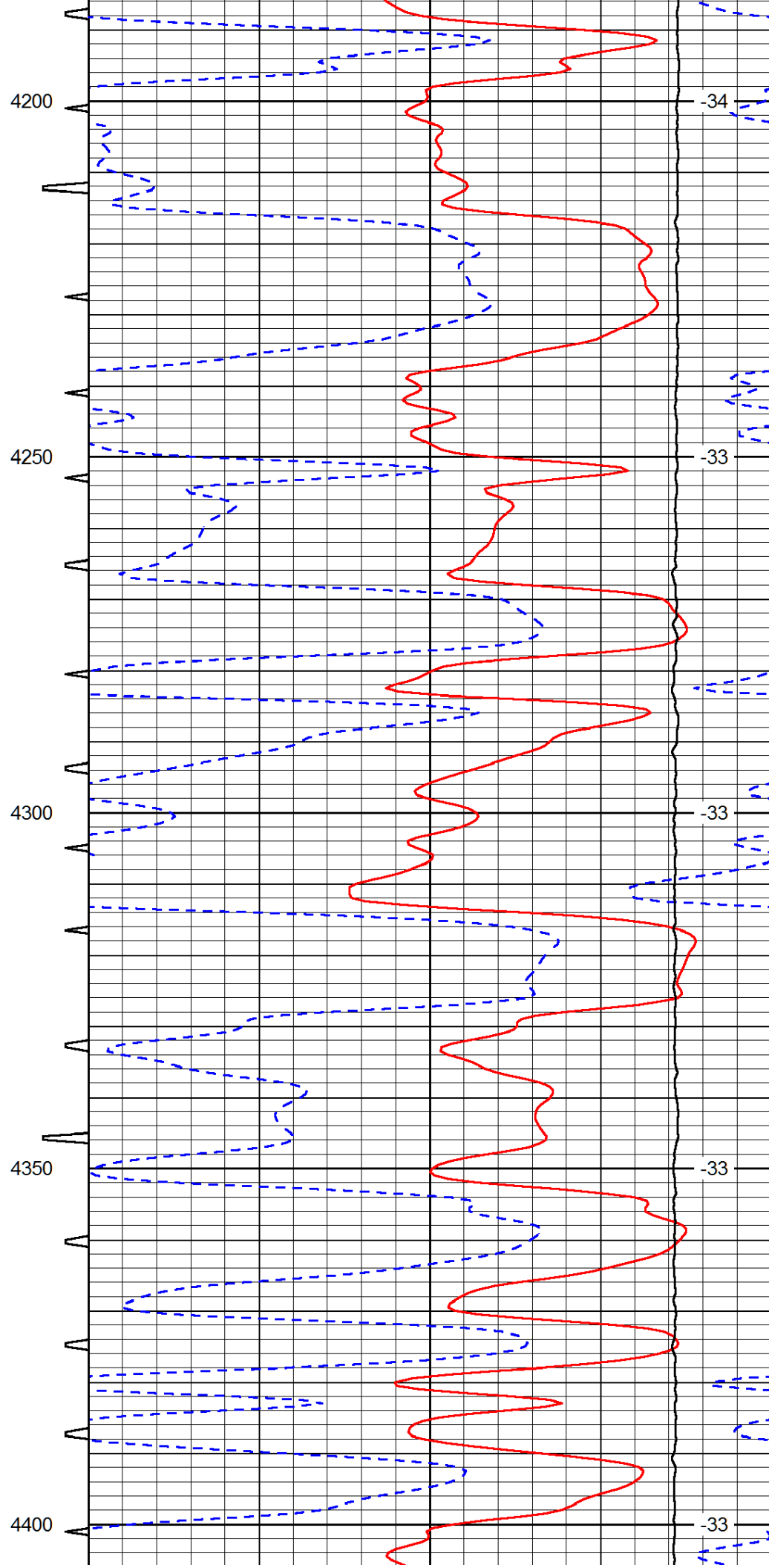
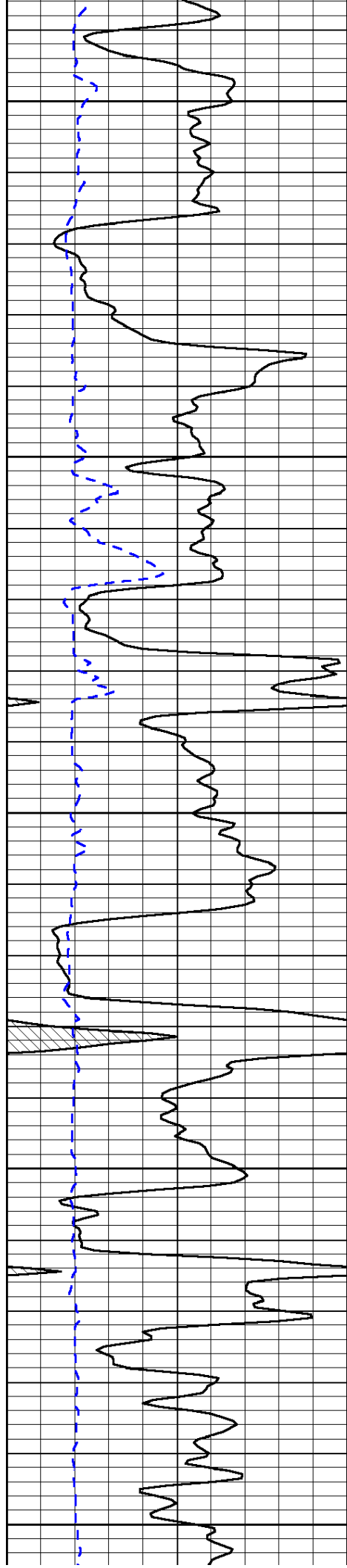


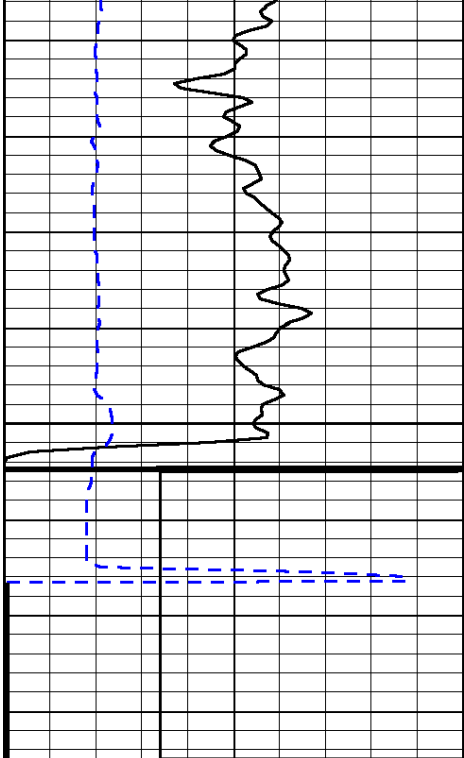




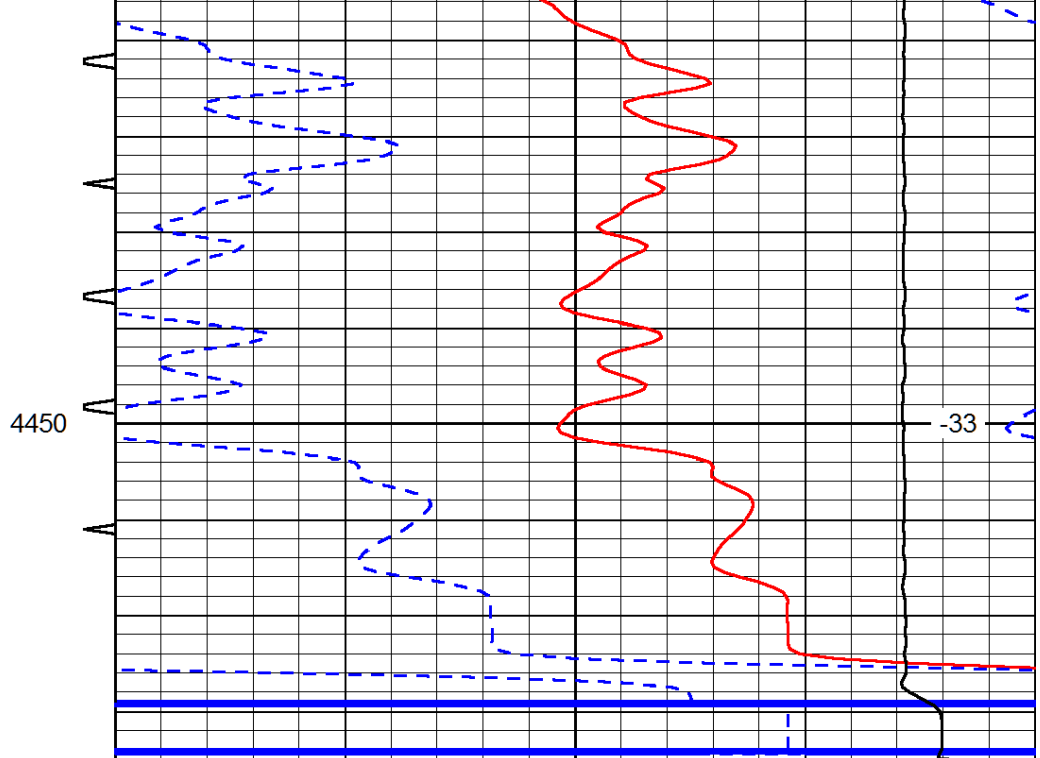








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