



PIONEER

Pioneer Energy Services

Borehole Compensated Sonic Log

API No.

15-053-21,314-00-00

Company Bird Dog Oil, LLC

Well Stoltzenberg-Svoboda No. 2-17

Field Stoltzenberg

County Ellsworth State Kansas

Location 1,040' FNL & 900' FEL

Sec: 17 Twp: 16S Rge: 10W

Other Services
CNL/CDL
MEL/DIL

Permanent Datum Ground Level Elevation 1901

Log Measured From Kelly Bushing 8 Ft. Above Perm. Datum

Drilling Measured From Kelly Bushing K.B. 1909
D.F. 1901
G.L. 1901

Date 9/10/2014

Run Number Two

Type Log BHC Sonic

Depth Driller 3460

Depth Logger 3460

Bottom Logged Interval 3449

Top Logged Interval 400

Type Fluid In Hole Chemical

Salinity, PPM CL 11000

Density 9.3

Level Full

Max. Rec. Temp. F 111

Operating Rig Time 4 Hours

Equipment -- Location 108 Hays

Recorded By J. Long

Witnessed By Adam Nighswonger

Borehole Record

Casing Record

Run No

Bit

From

To

Size

Wgt.

From

To

One 12.25 00 431 8.625 23# 00 431

Two 7.875 431 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.

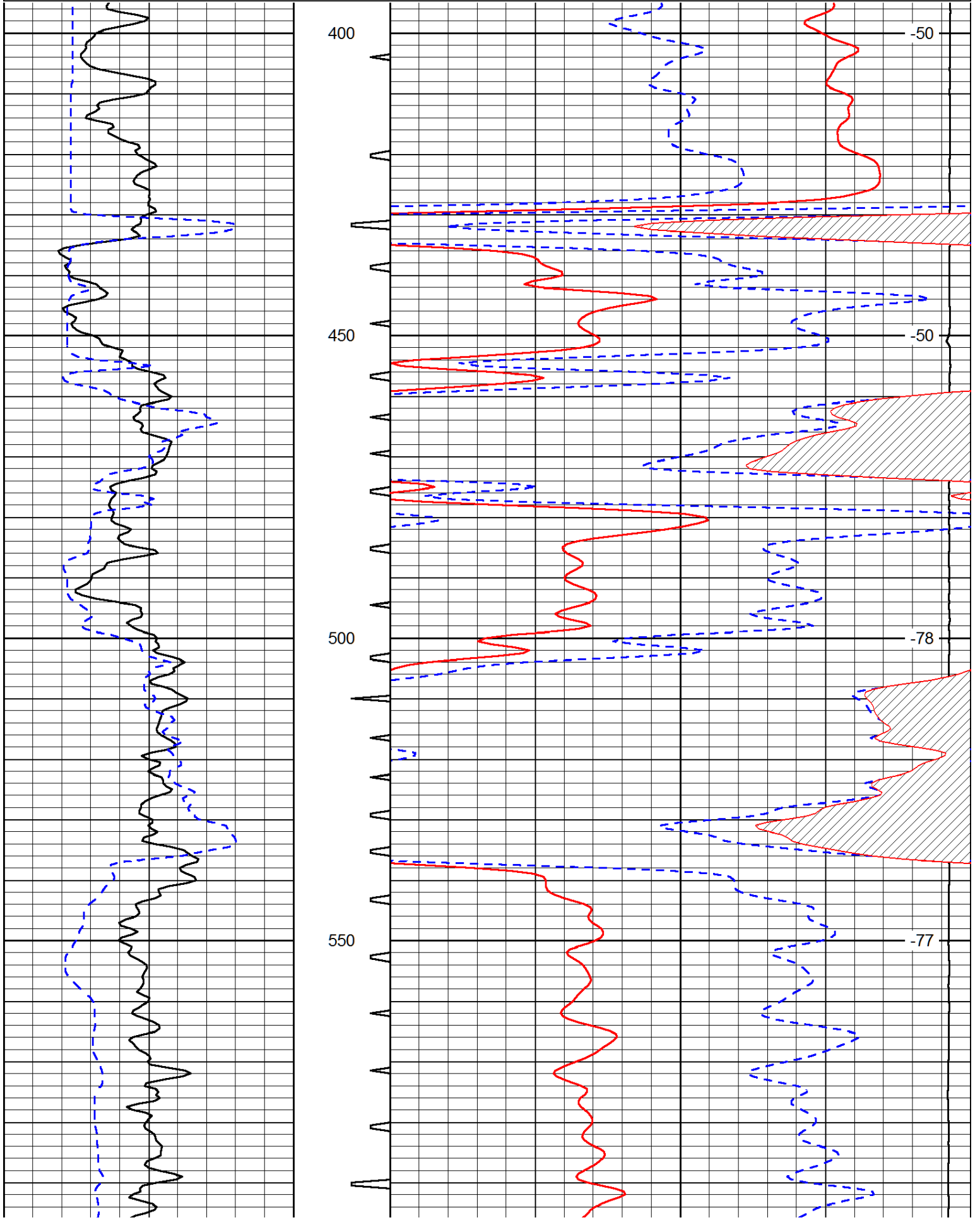
Comments

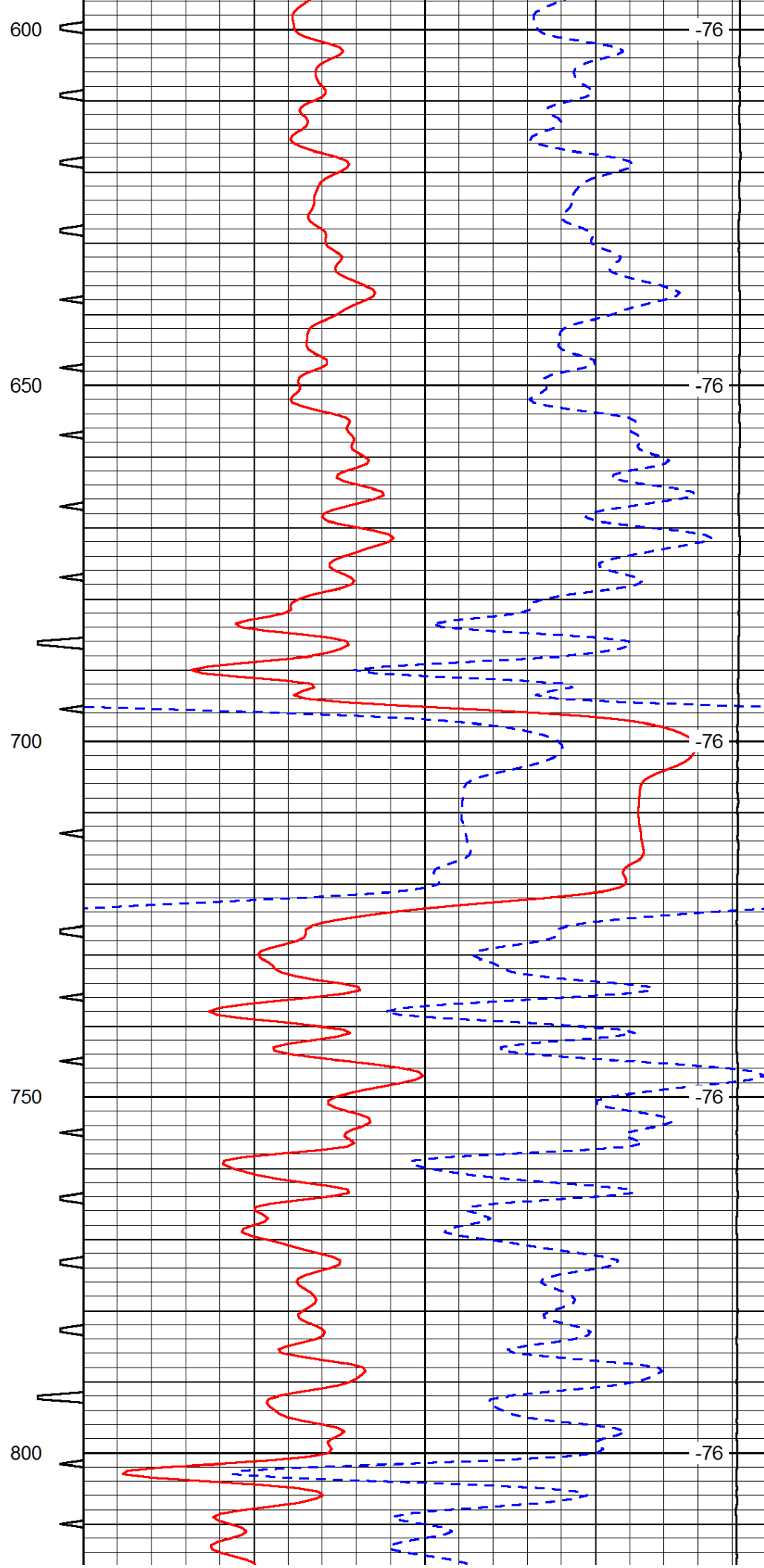
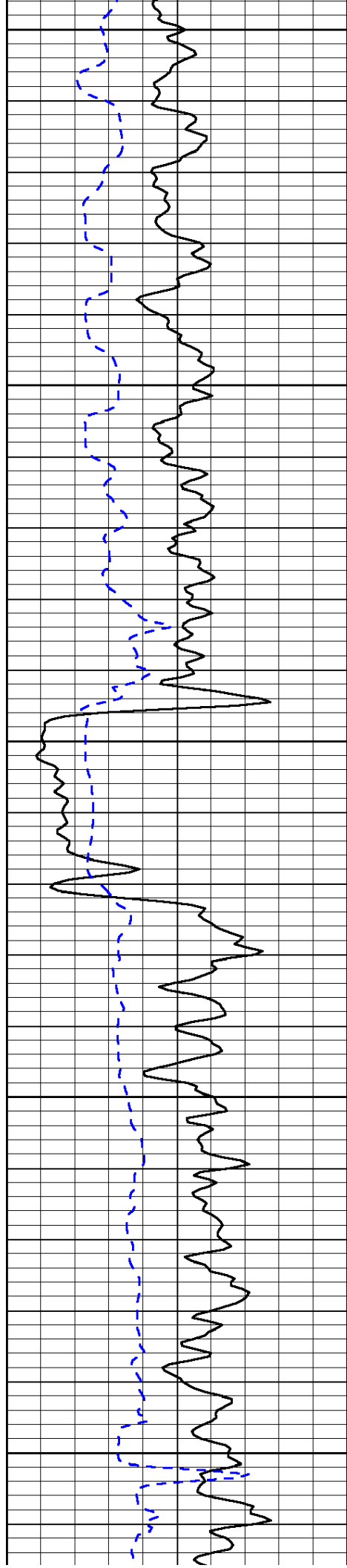
Thank you for using Log-Tech, Inc.
(785) 625-3858

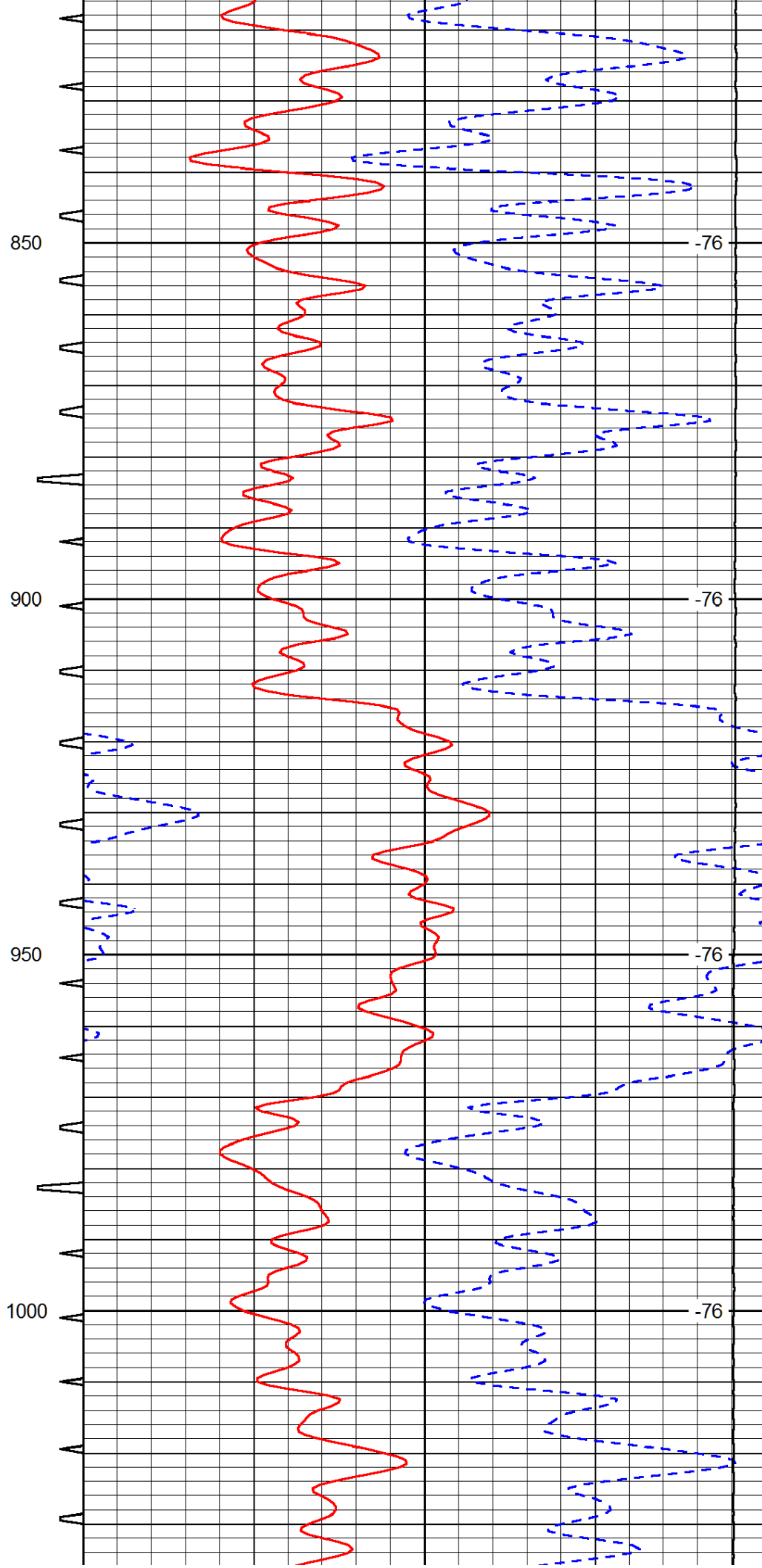
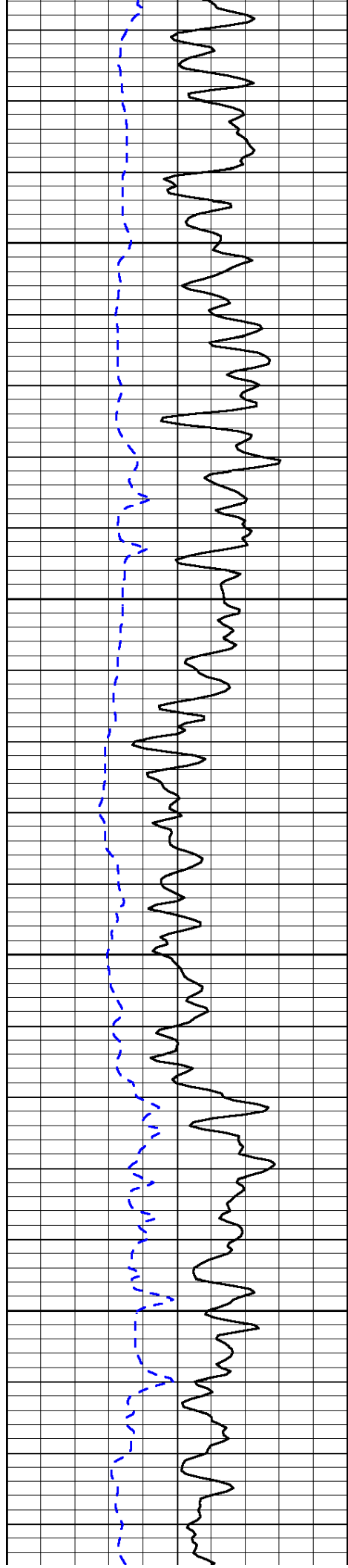
Wilson, 12 South to Avenue P, 2 East to 3rd Road, 1/2 North, 1/4 West to Tank Batteries,
North Into

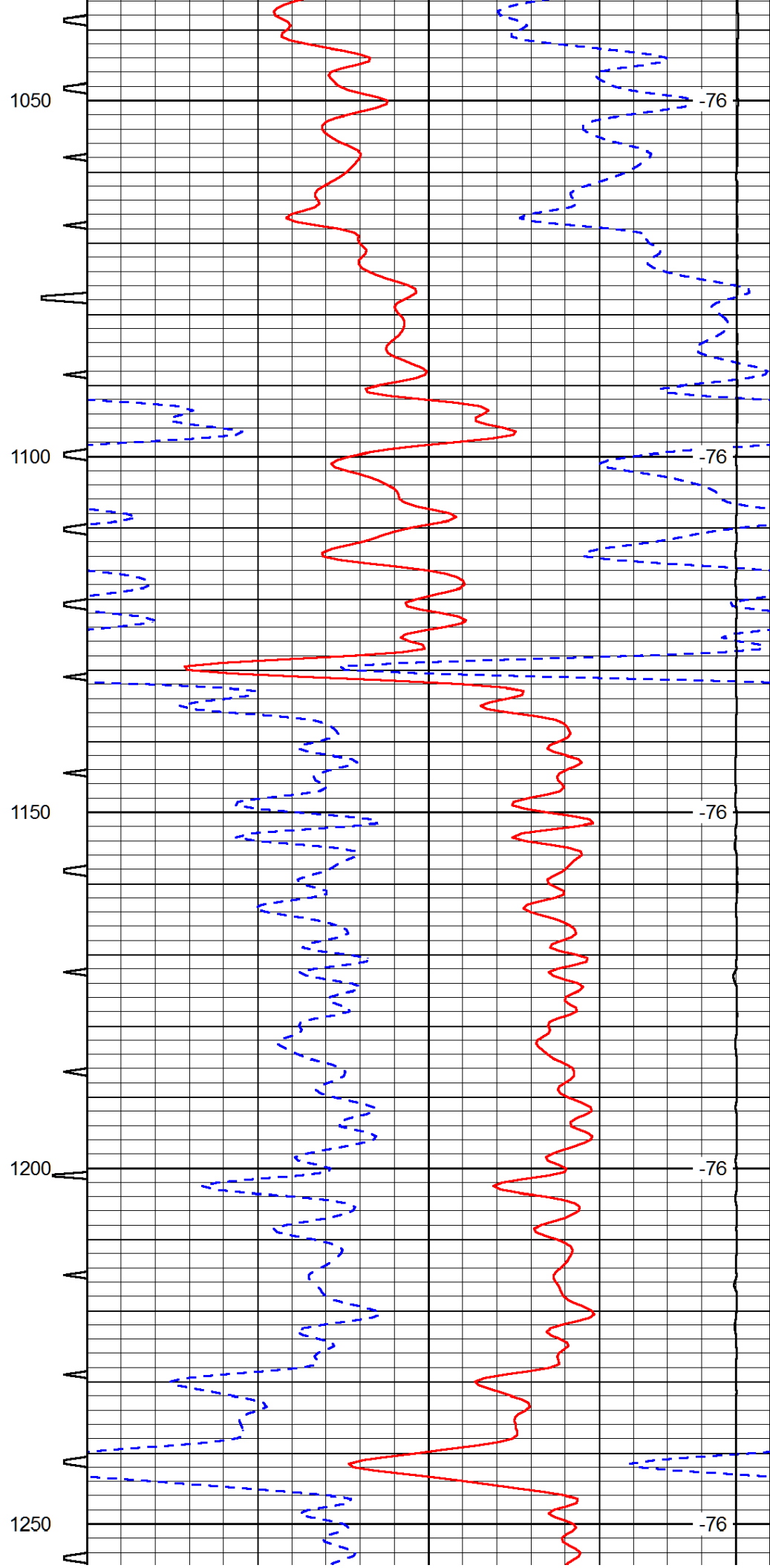
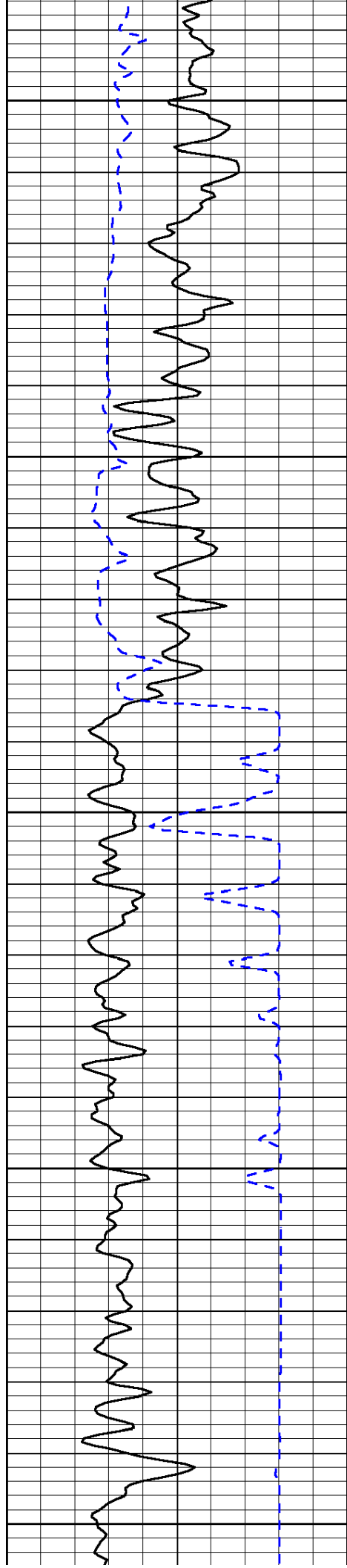
Database File: birddog_stoltenberg-svoboda_2-17hd.db
Dataset Pathname: dil/birdstck
Presentation Format: sonic
Dataset Creation: Wed Sep 10 13:14:51 2014
Charted by: Depth in Feet scaled 1:240

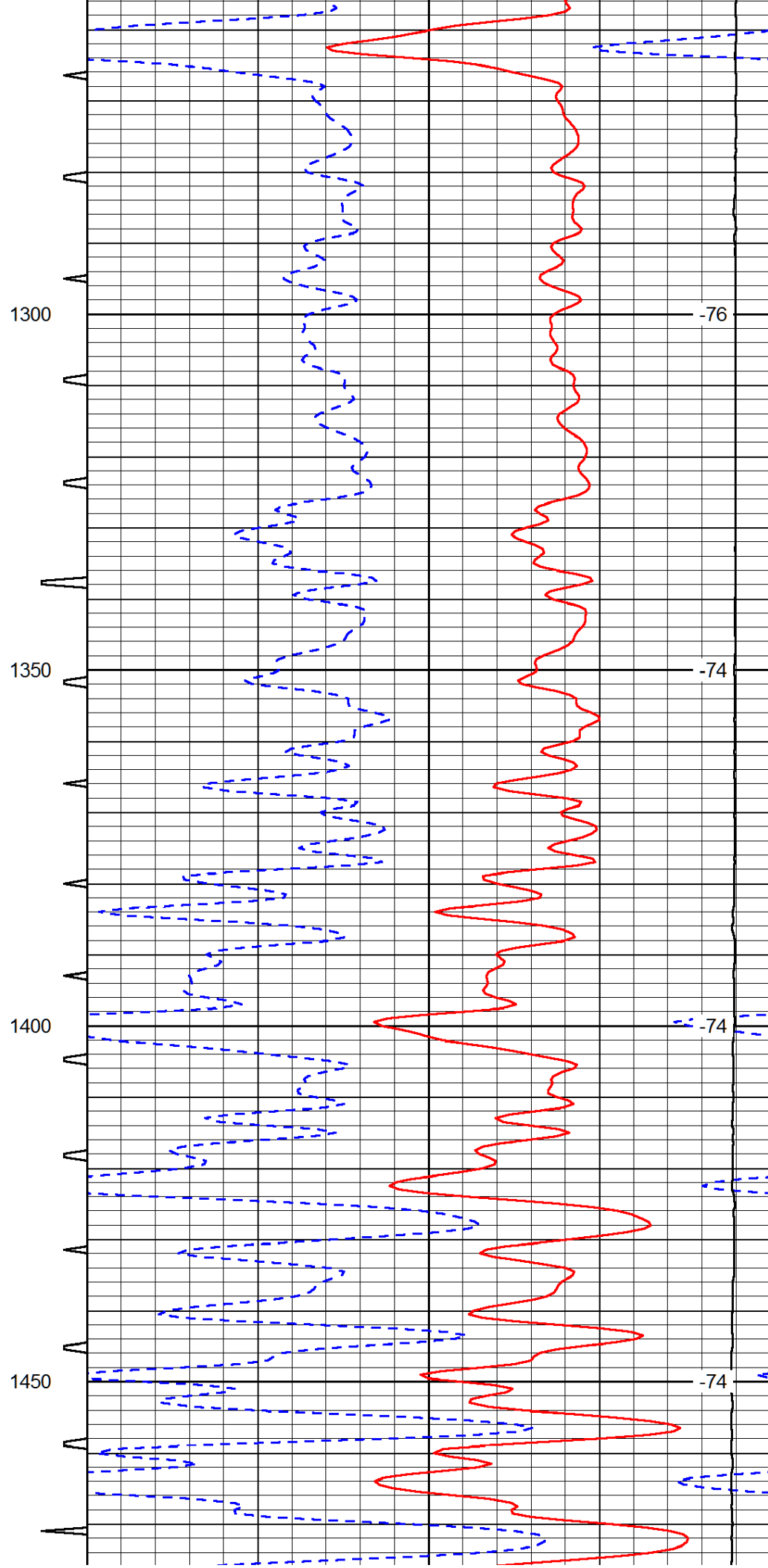
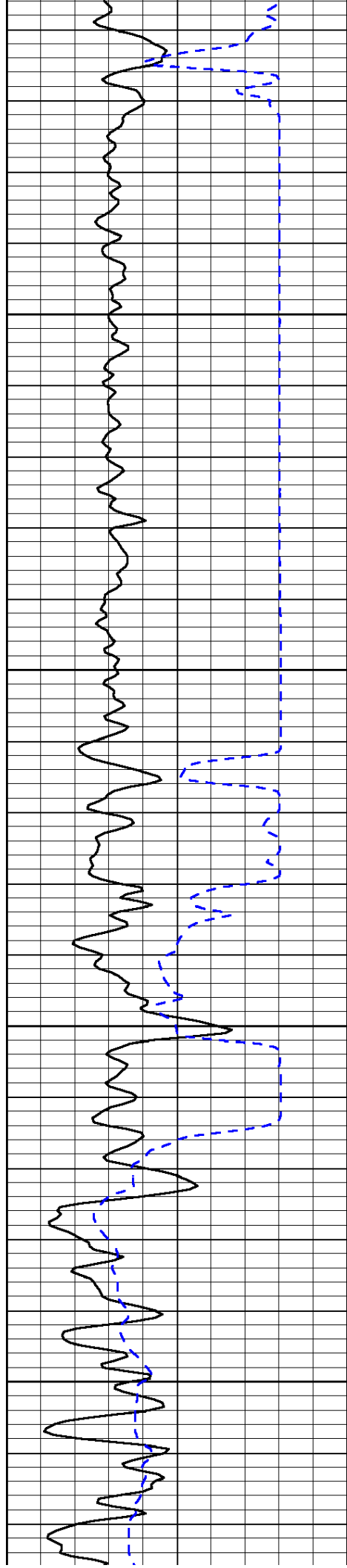
0	Gamma Ray	150	Sonic Int	140	Delta Time (usec/ft)	40
150	Gamma Ray	300	5	0	Sonic Porosity	-10
6	dCAL (GAPI)	16			LTEN (lb)	0
						LSPD

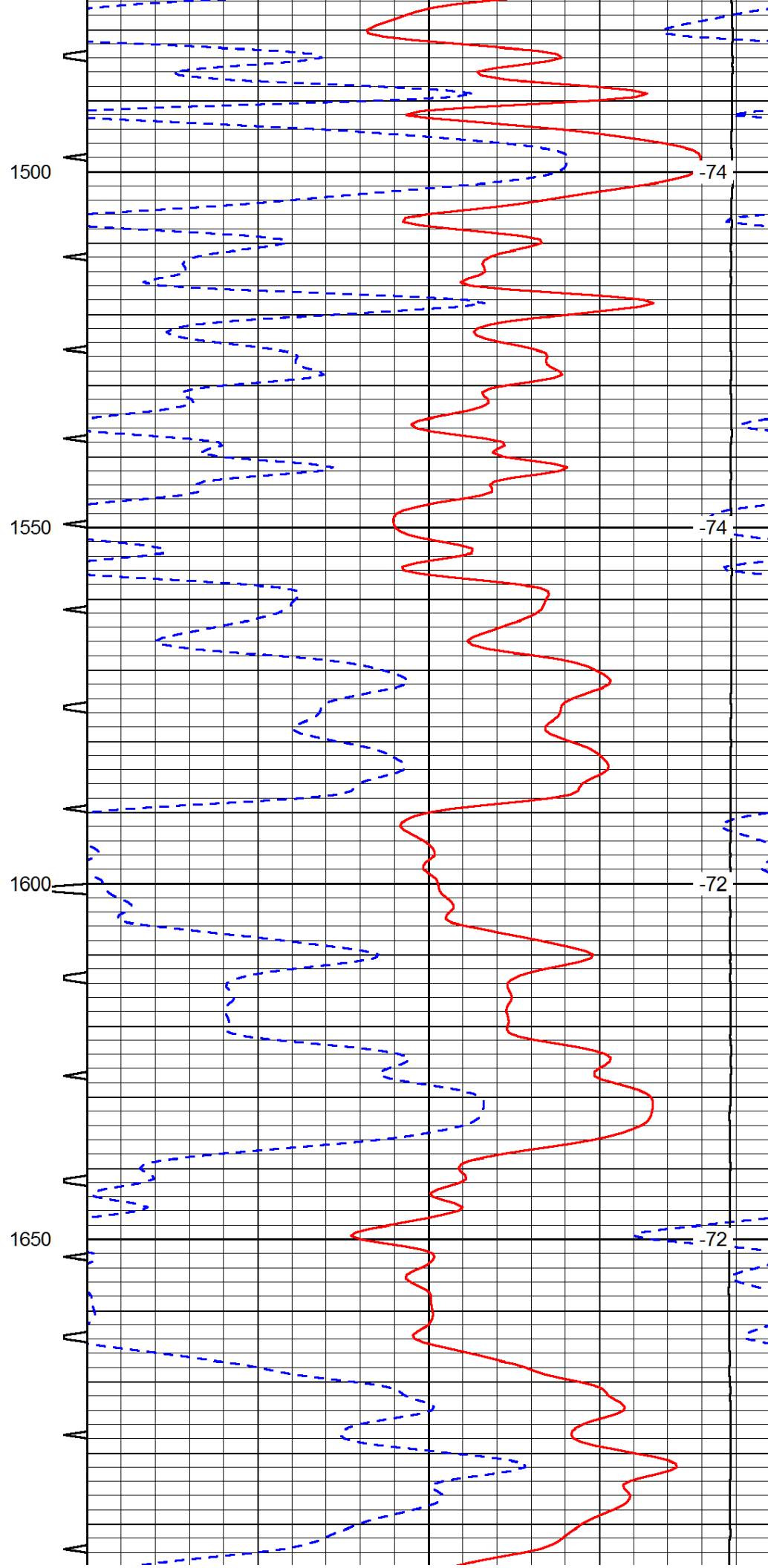
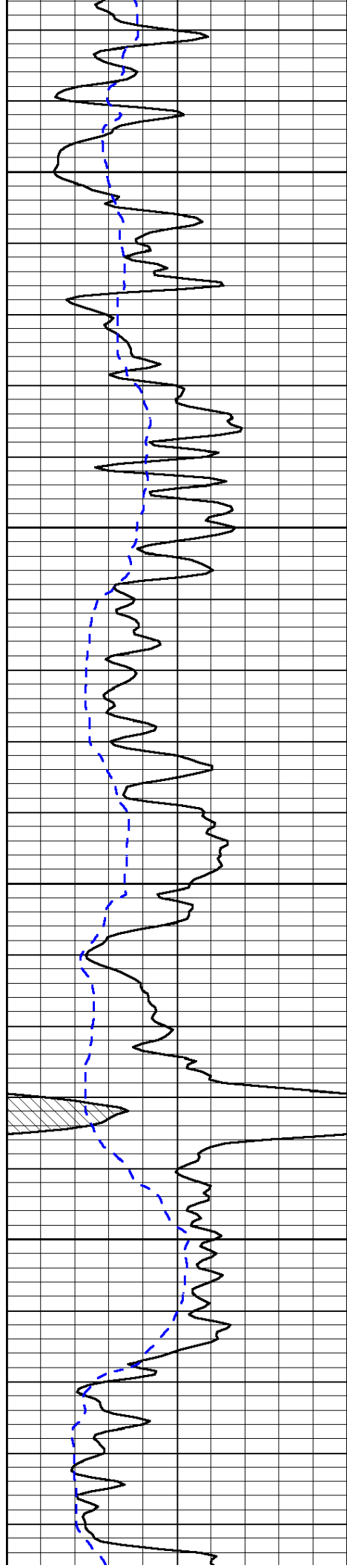


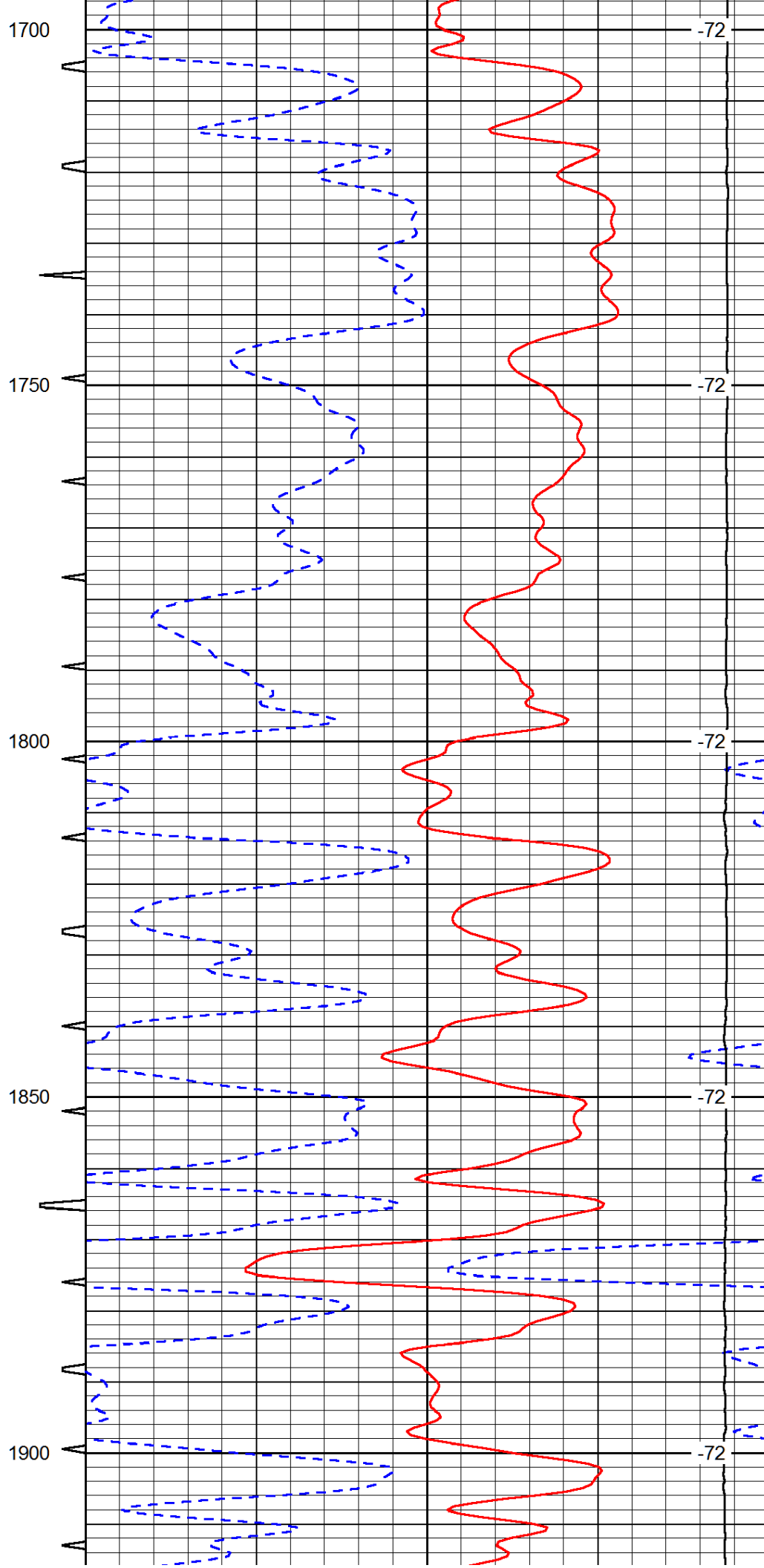
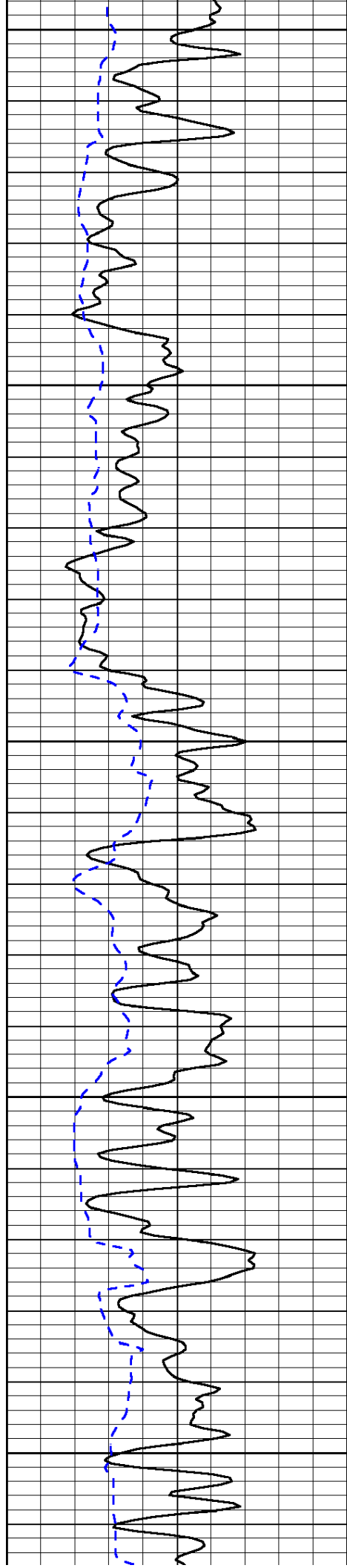


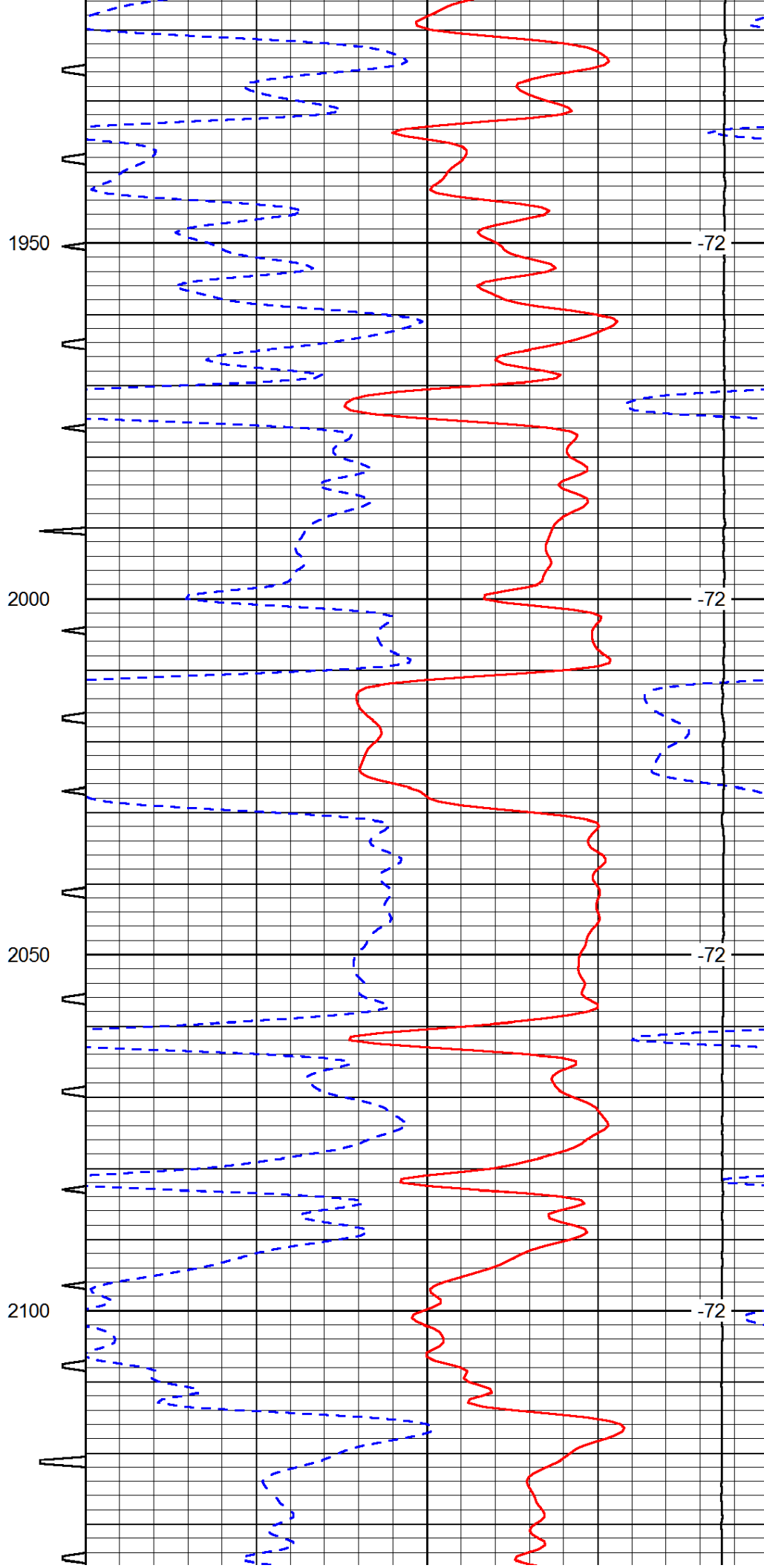
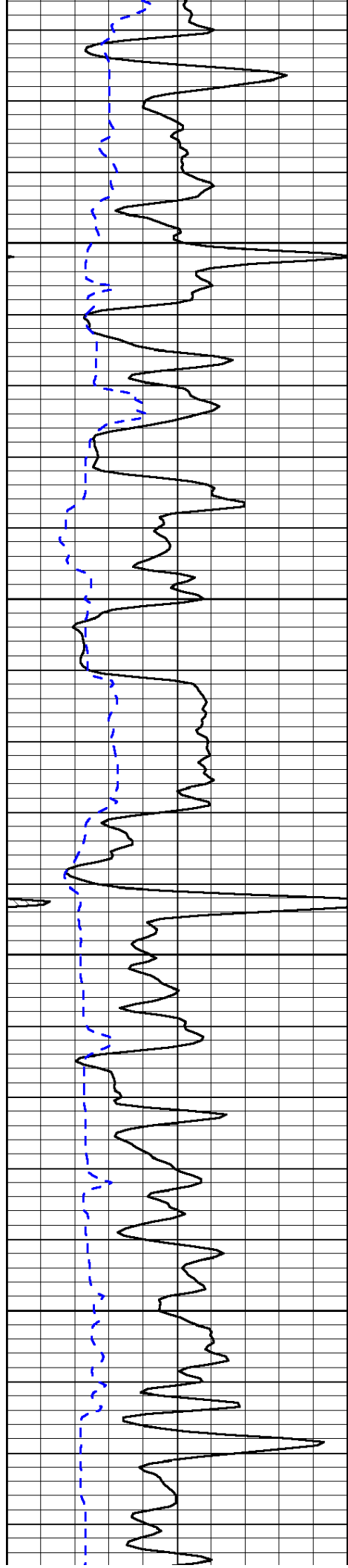


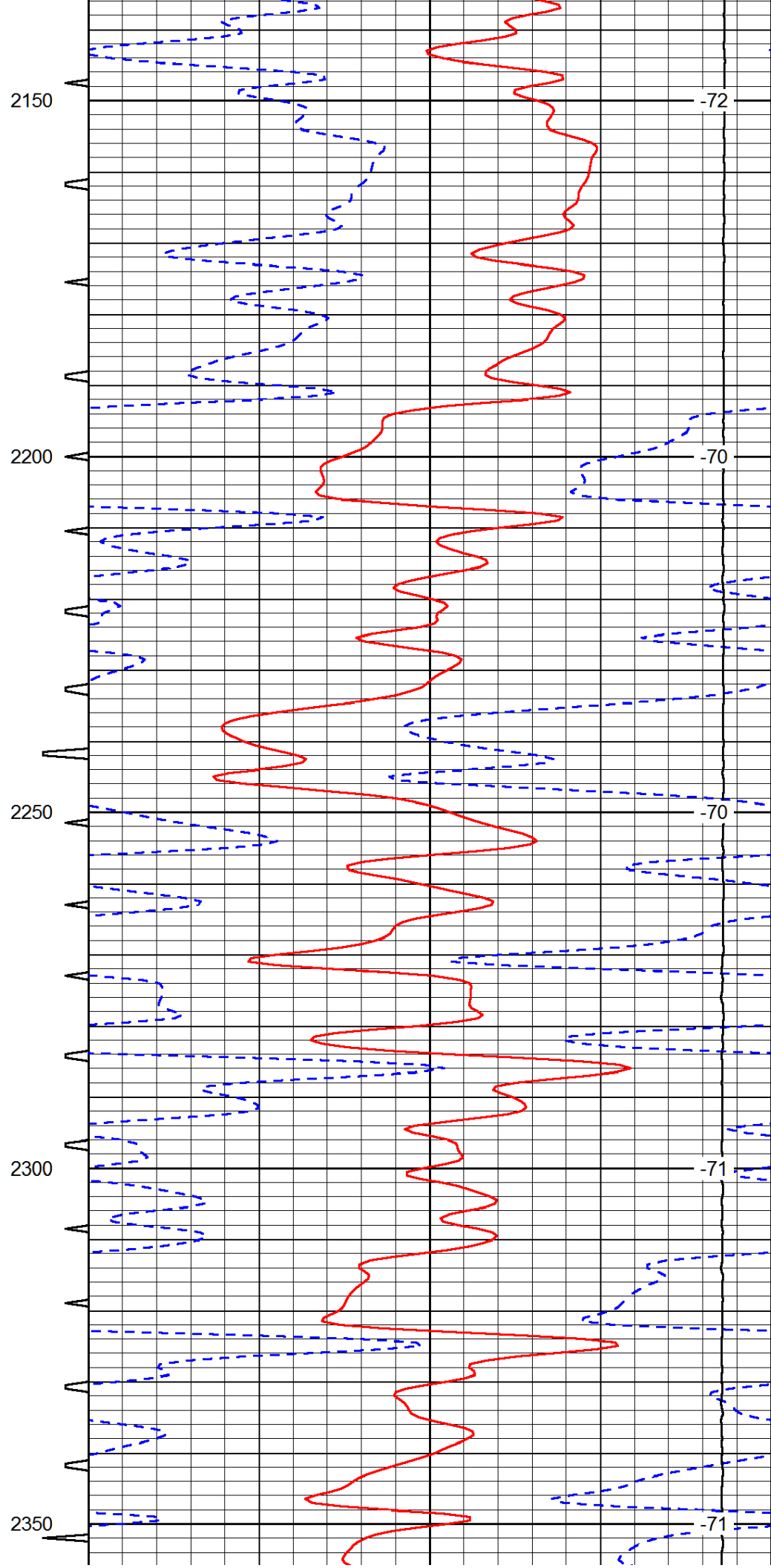
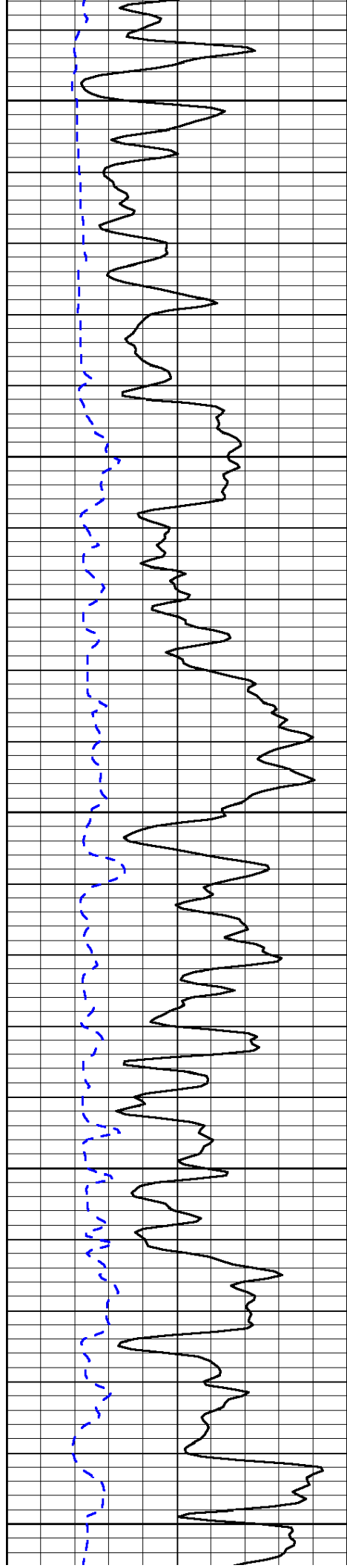


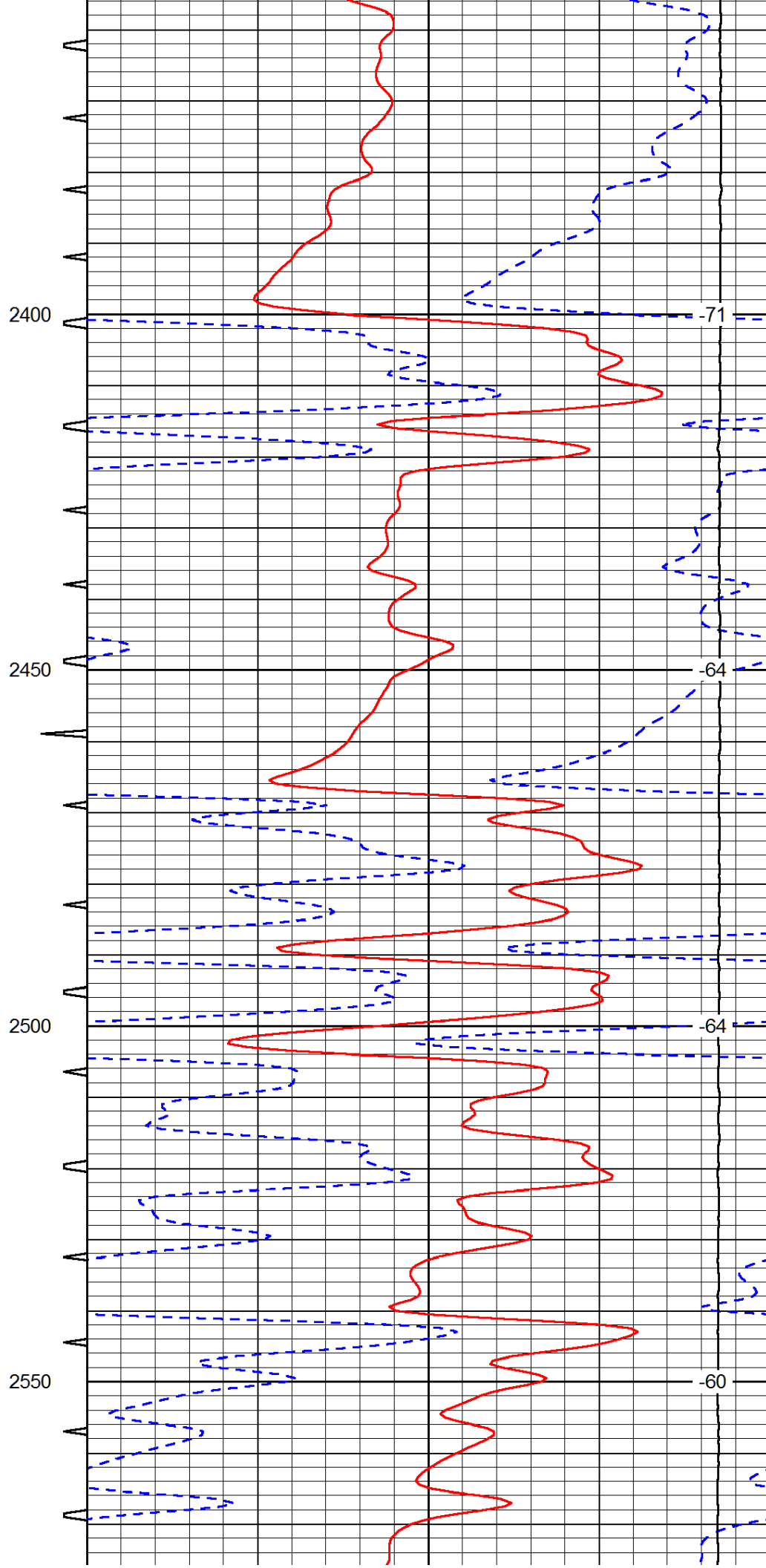
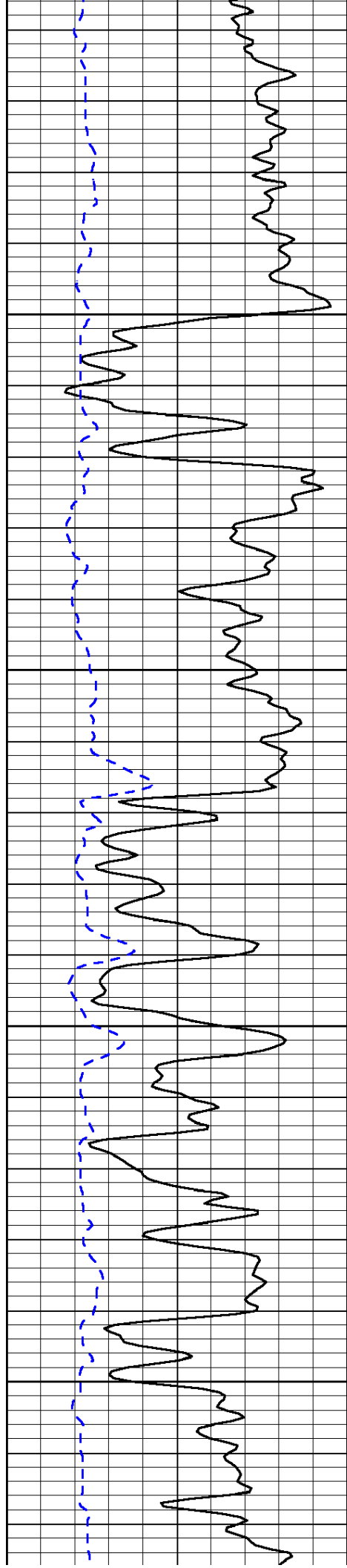


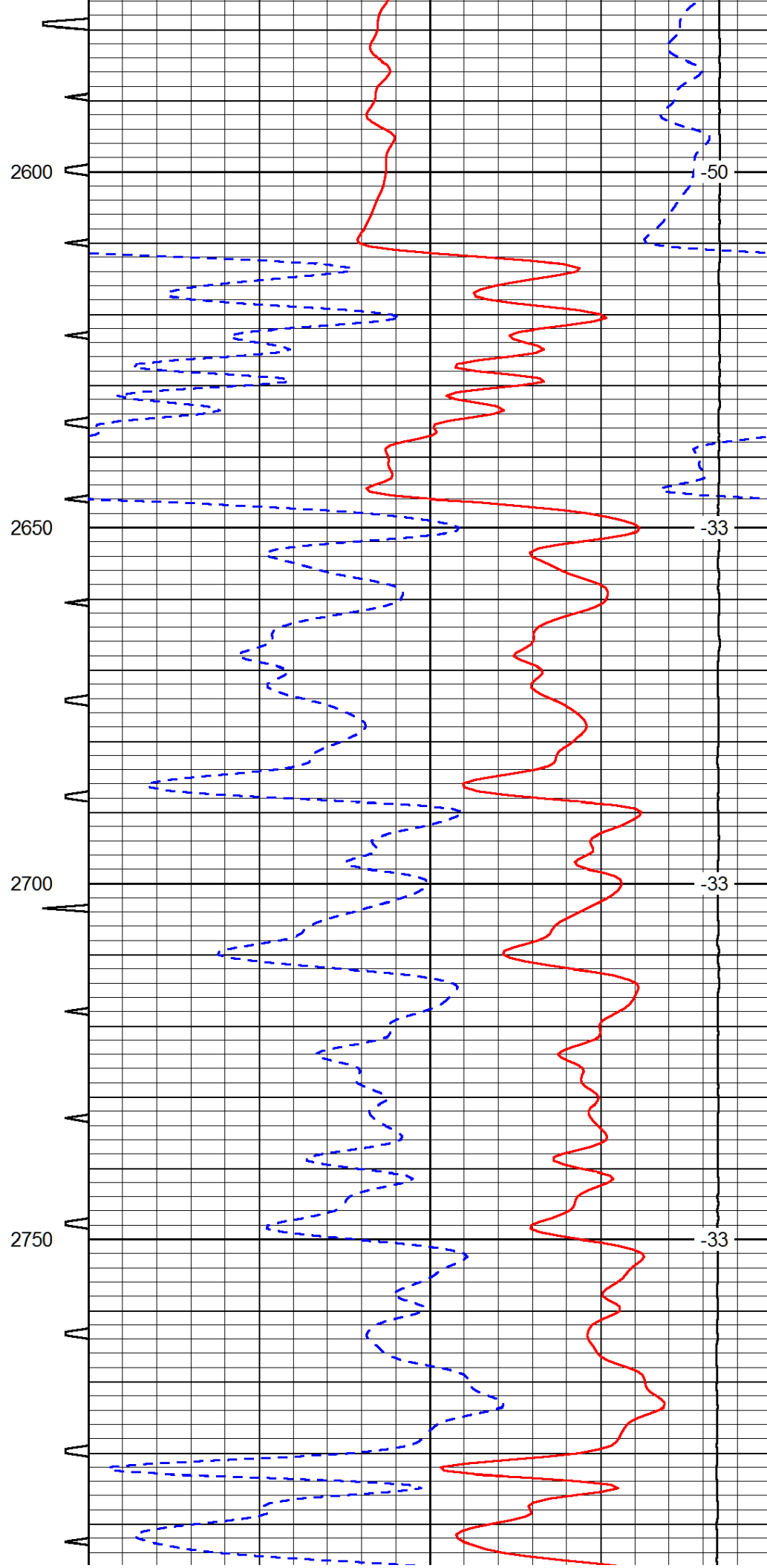
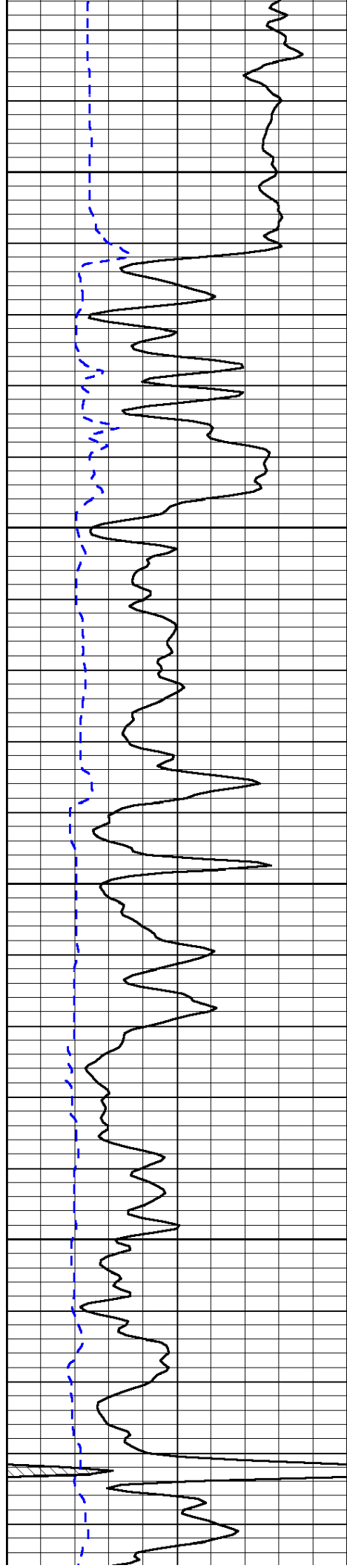


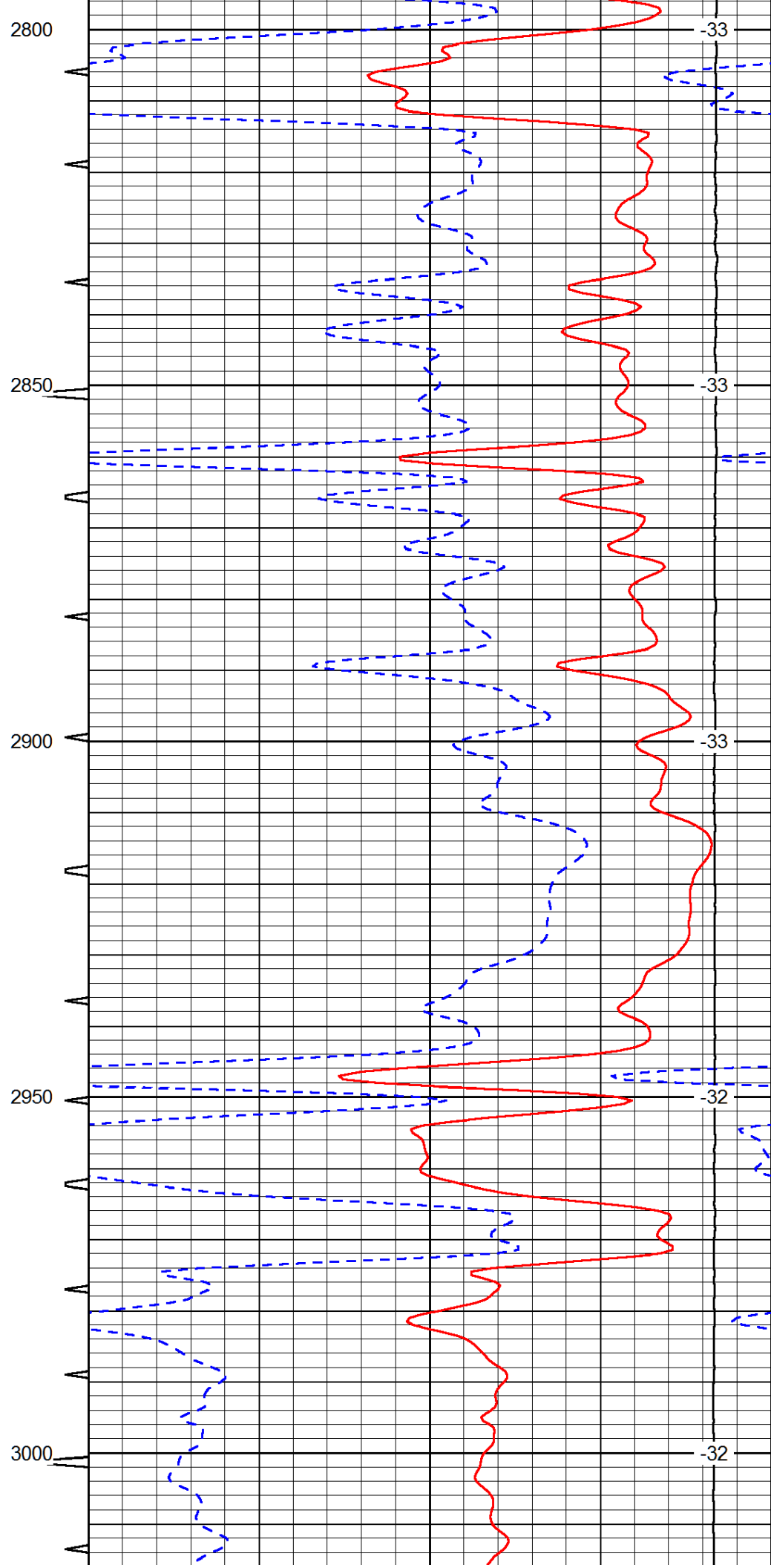
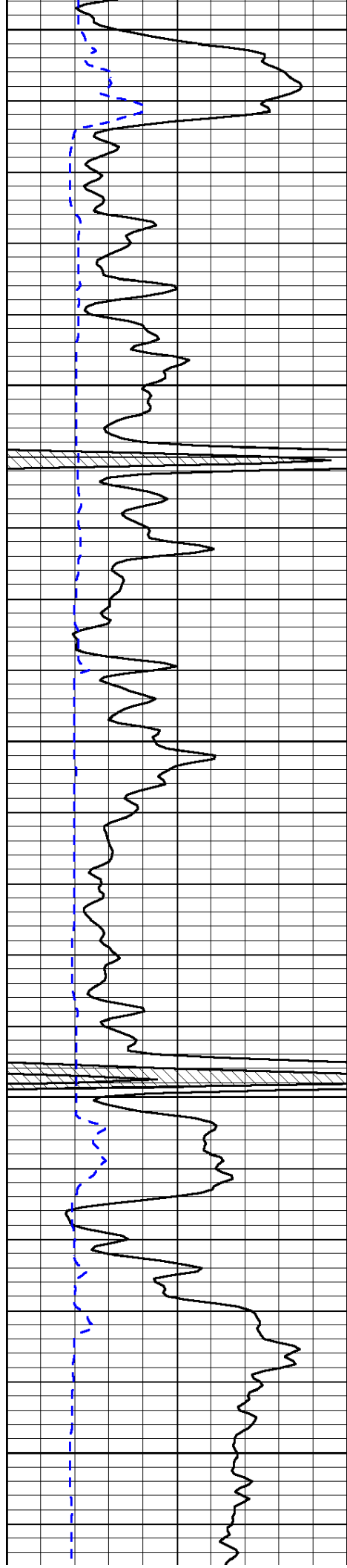


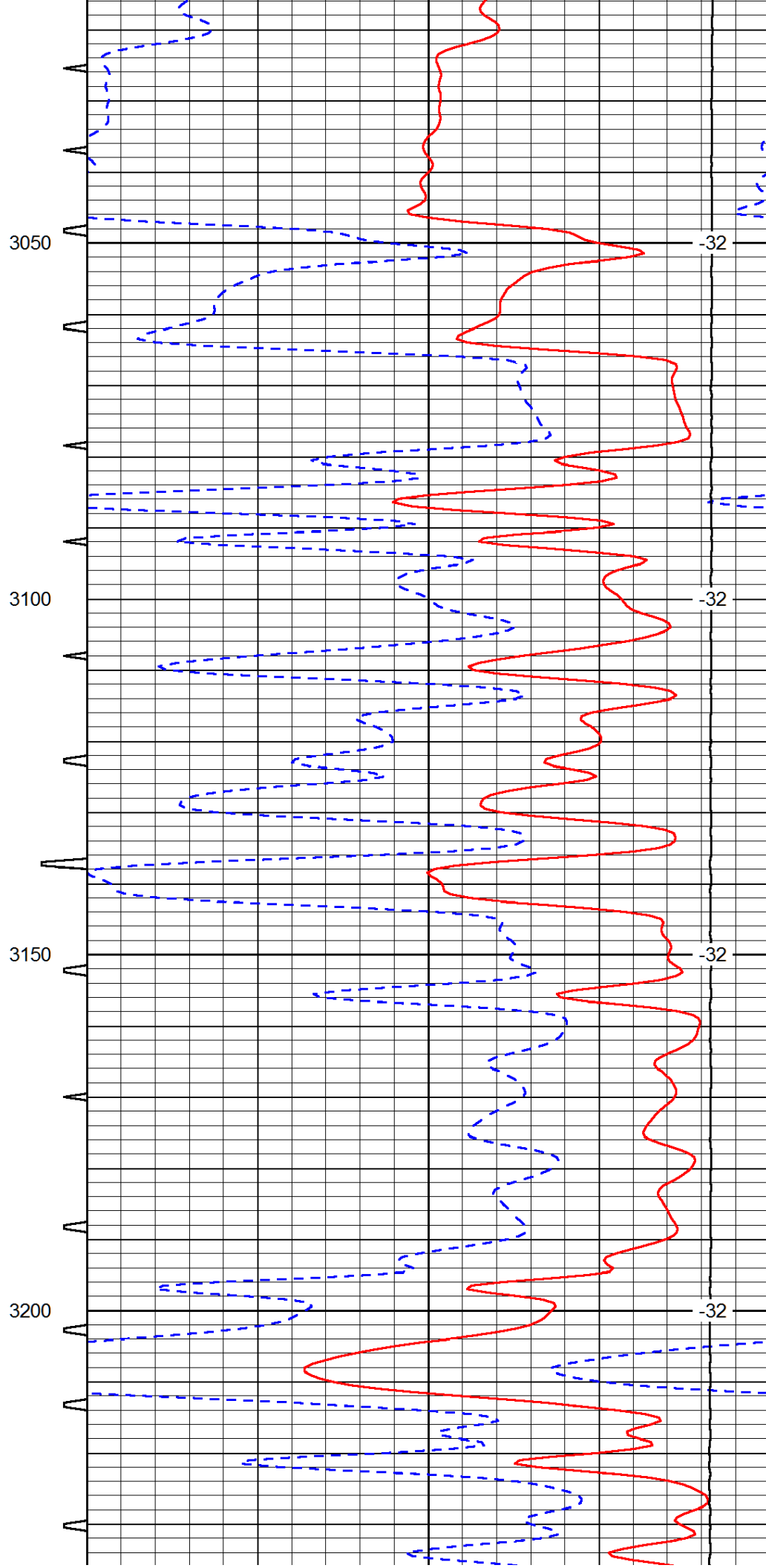
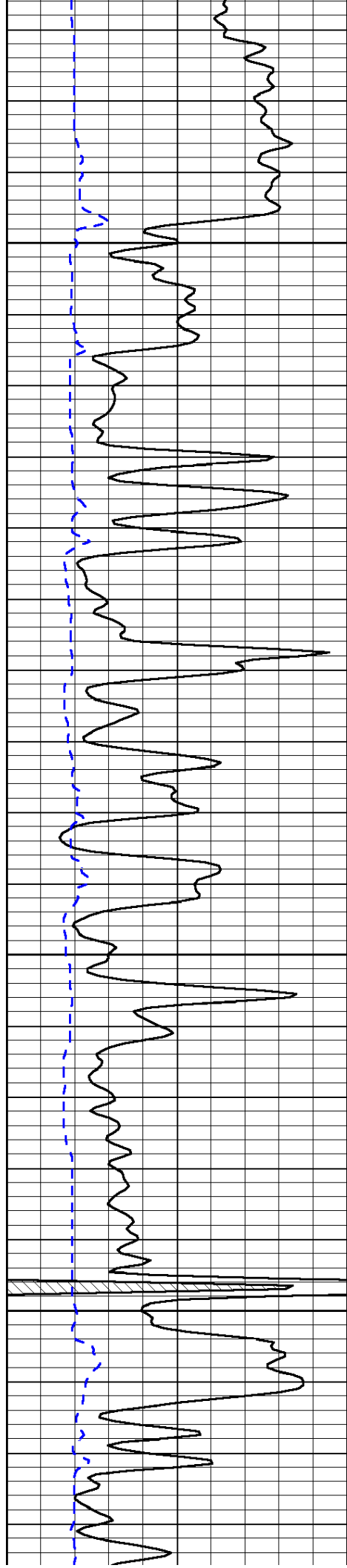


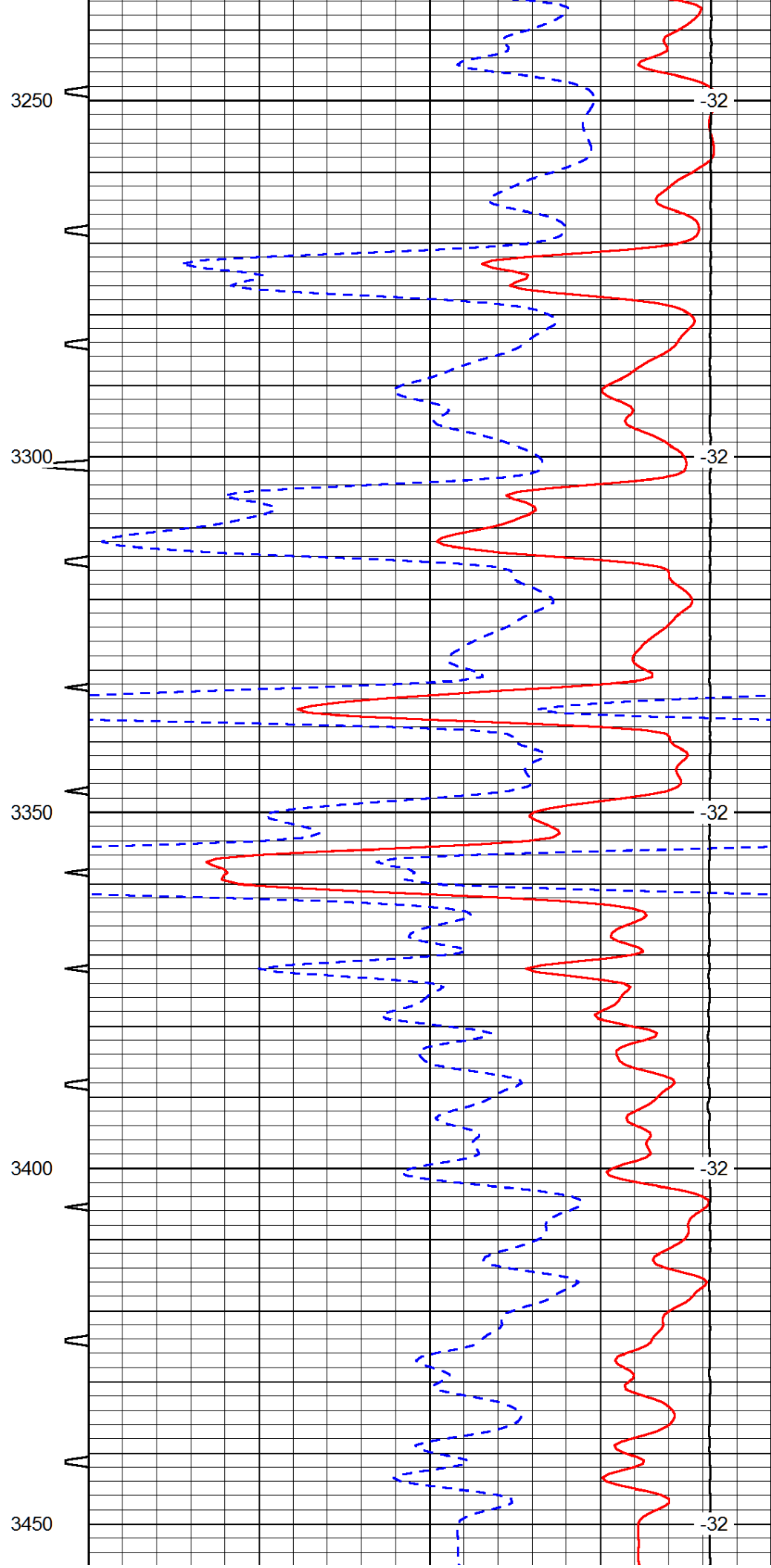
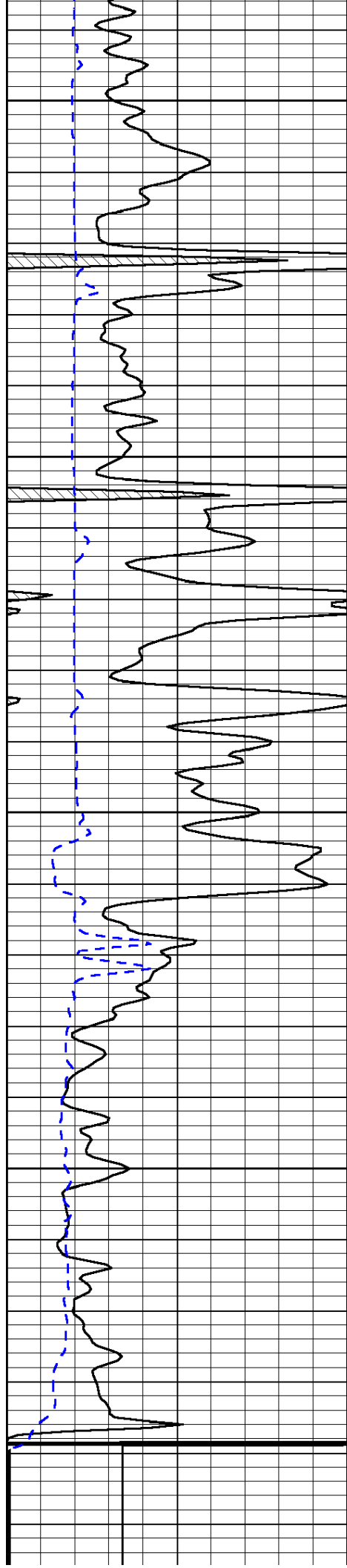












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