



Borehole Compensated Sonic Log

Pioneer Energy Services

API No.

15-009-26028-00-00

Company American Warrior, Inc.

Well Oeser #2

Field Kraft-Prusa

County Barton

State Kansas

Location

1154' FSL & 892' FEL

Other Services
CNL/CDL
MEL/DIL

Sec: 18

Twp: 16S

Rge: 11W

Elevation

Permanent Datum Ground Level Elevation 1895

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

Drilling Measured From Kelly Bushing

K.B. 1903
D.F.
G.L. 1895

Date 12/19/2014

Run Number Two

Type Log BHC Sonic

Depth Driller 3461

Depth Logger 3461

Bottom Logged Interval 3450

Top Logged Interval 700

Type Fluid In Hole Chemical

Salinity, PPM CL 7200

Density 9.4

Level Full

Max. Rec. Temp. F 111

Operating Rig Time 4 Hours

Equipment -- Location 91 Hays

Recorded By D. Schmidt

Witnessed By Jim Musgrove

Borehole Record

Casing Record

Run No Bit From To Size Wgt. From To

One 12.25 00 733 8.625 23# 00 733

Two 7.875 733 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.

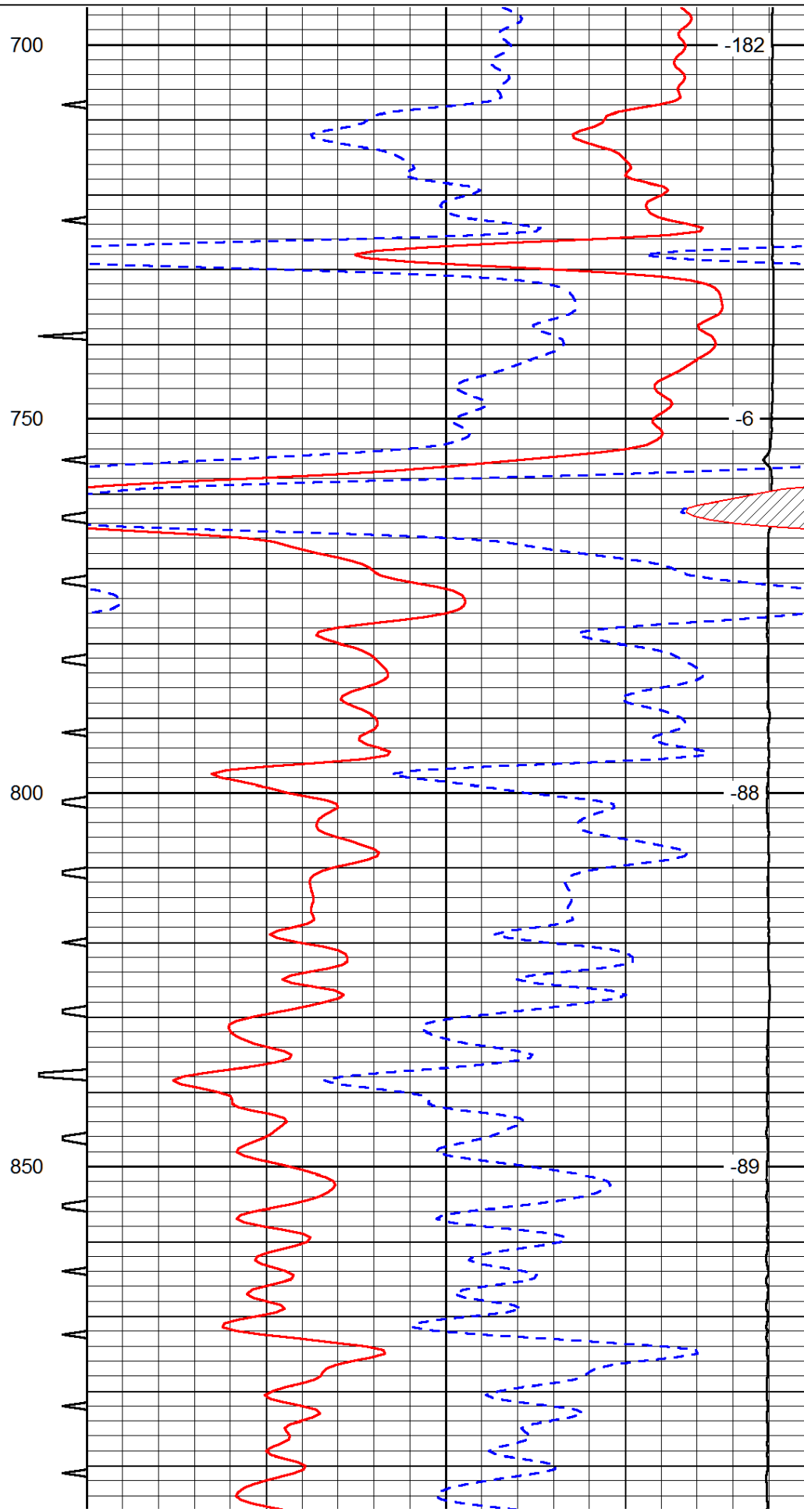
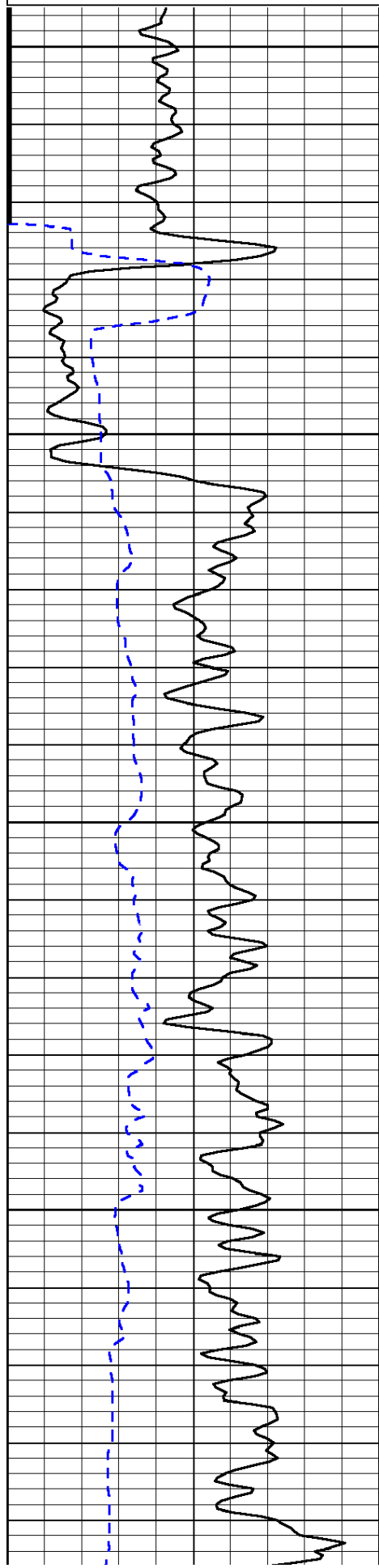
Comments

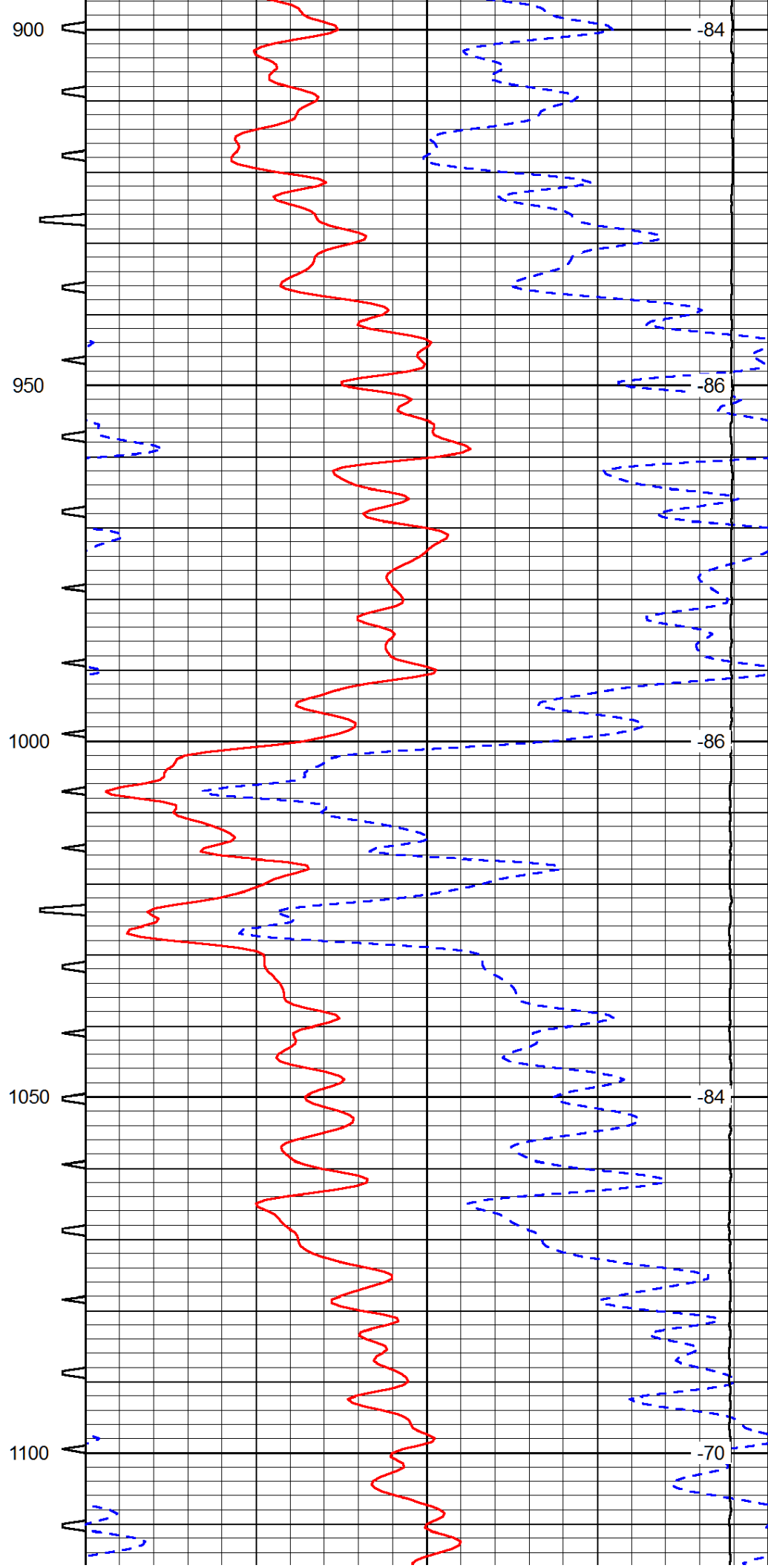
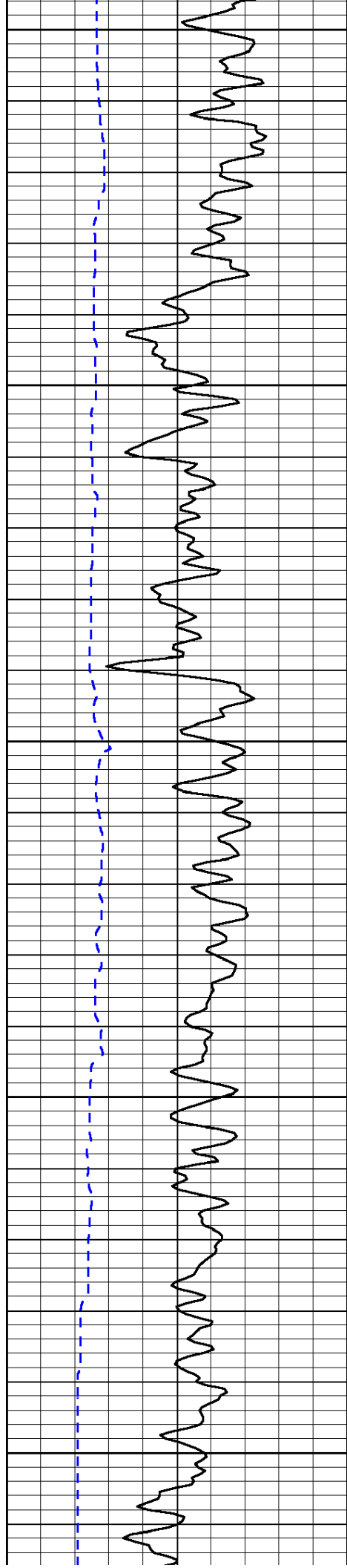
Thank you for using Log-Tech, Inc.
(785) 625-3858

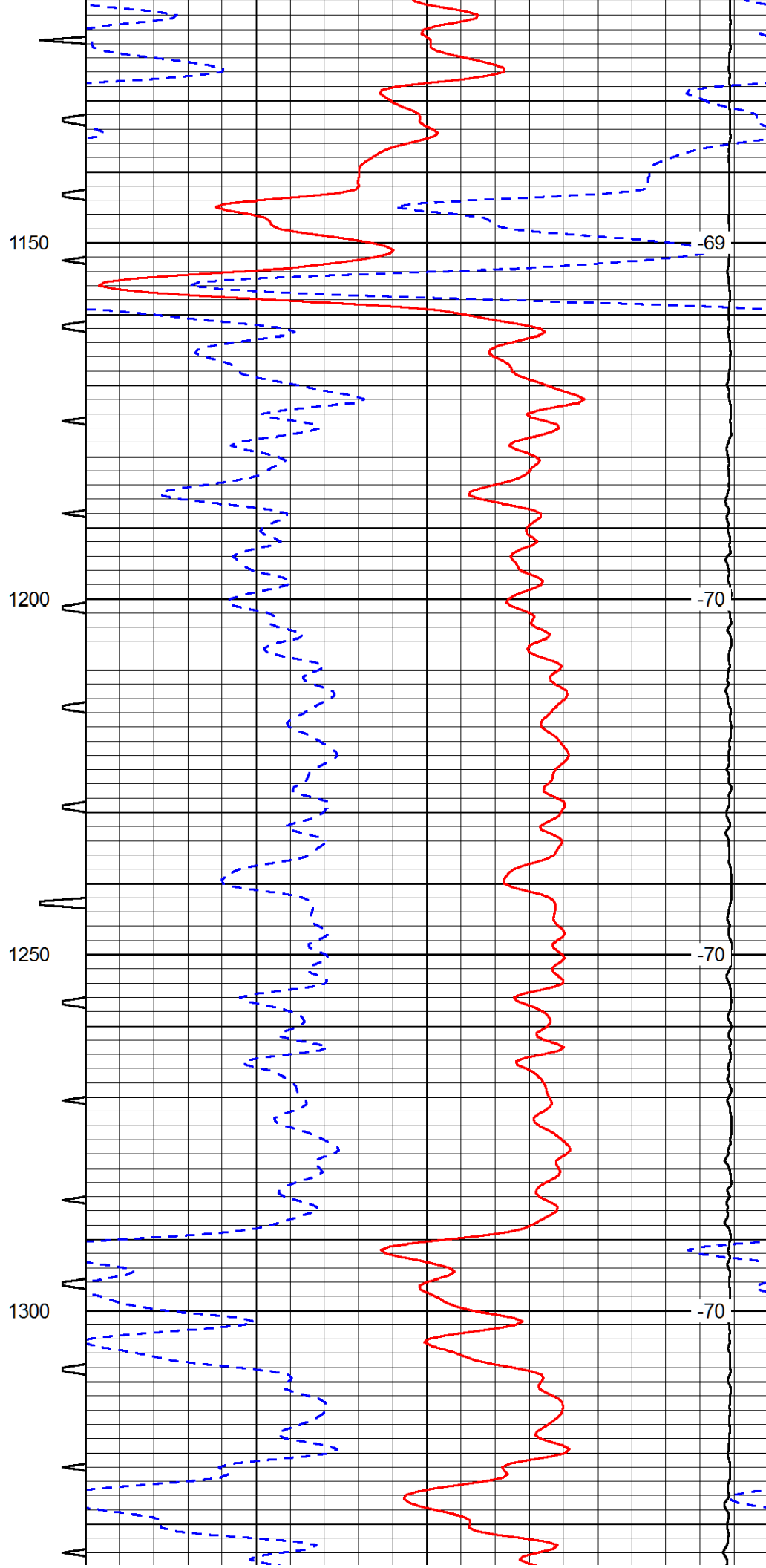
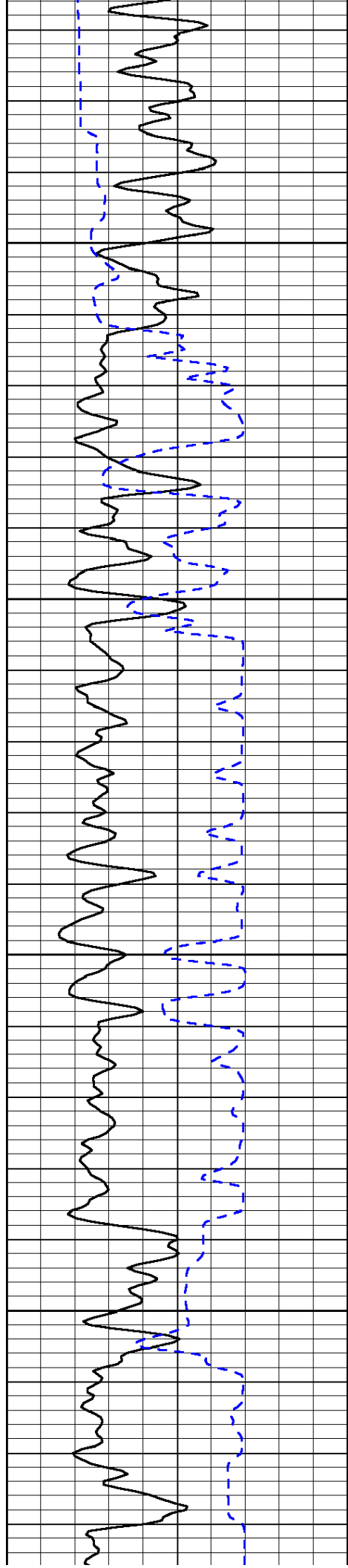
Odin,
North to 200 Rd, 2 East, 1/4 North,
West into

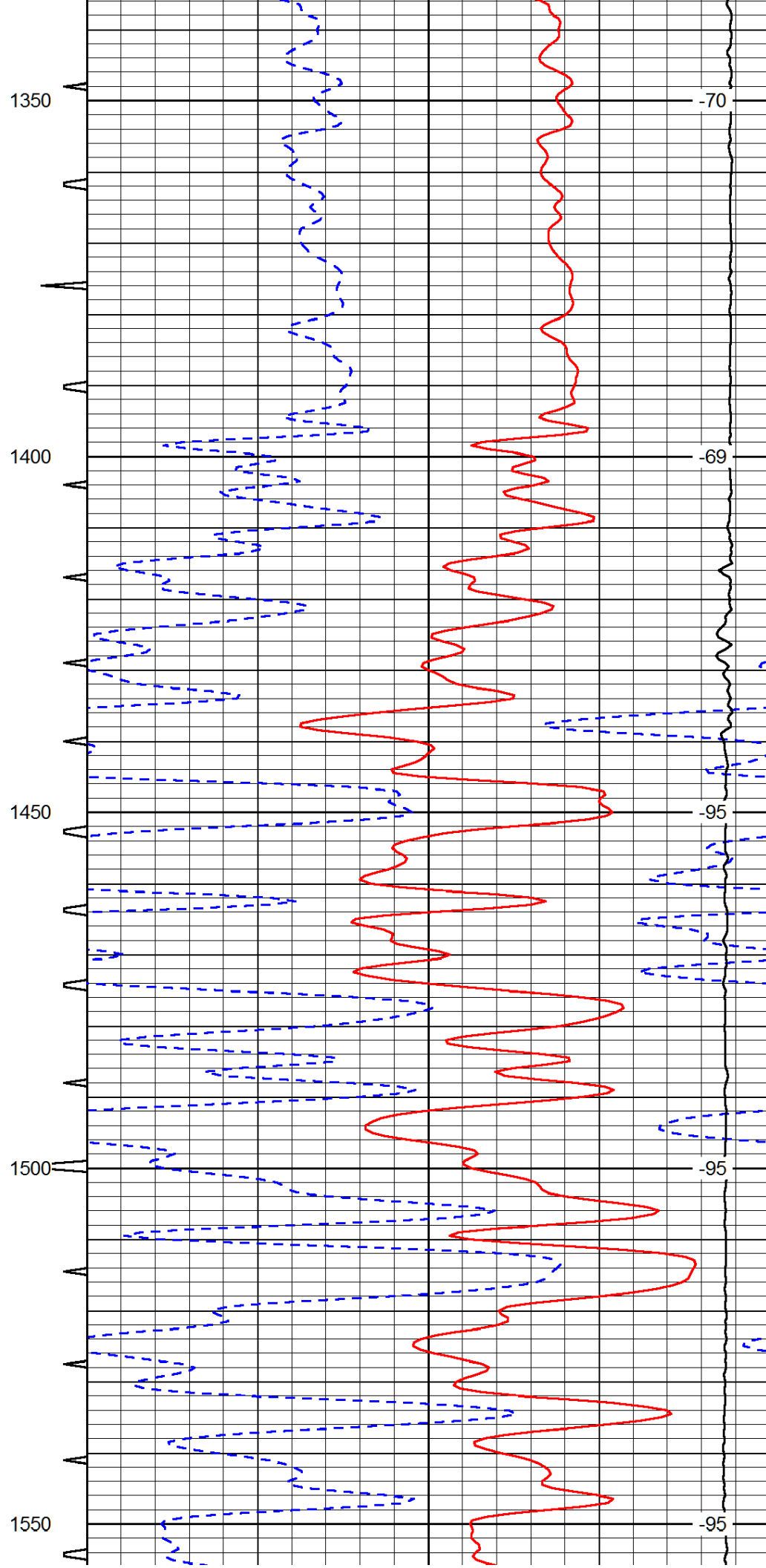
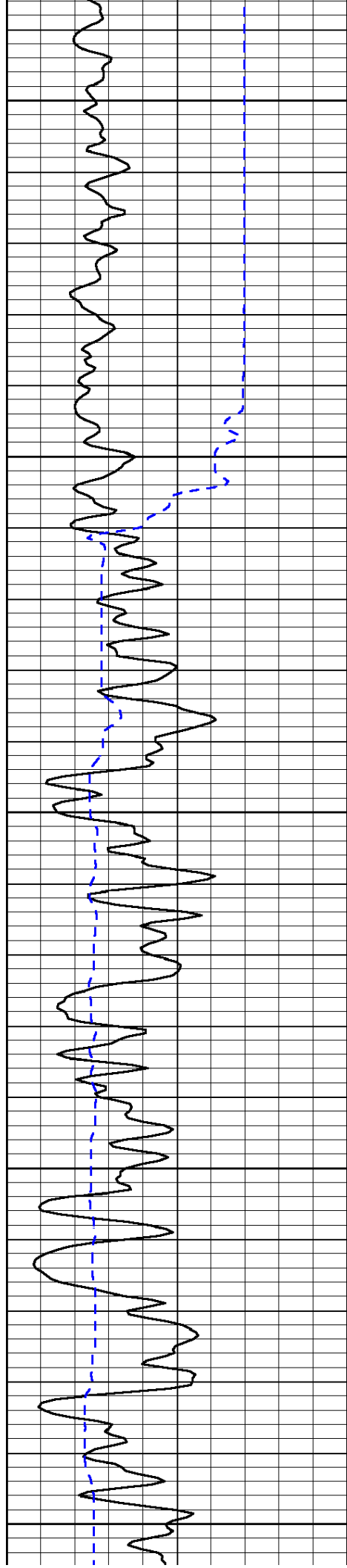
Database File: amwar_oeser_2hd.db
Dataset Pathname: dil/awstkml
Presentation Format: sonic
Dataset Creation: Fri Dec 19 20:22:59 2014
Charted by: Depth in Feet scaled 1:240

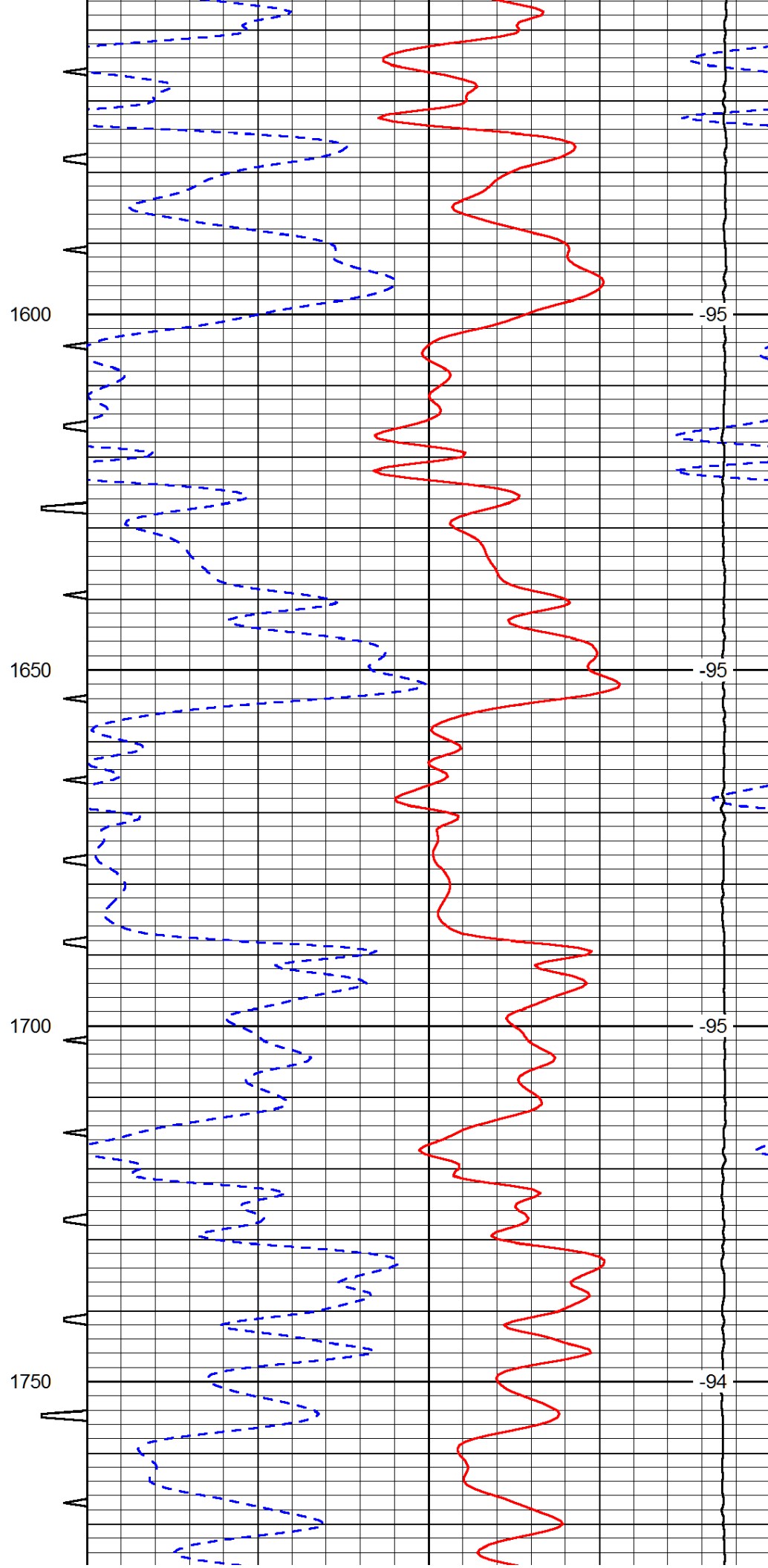
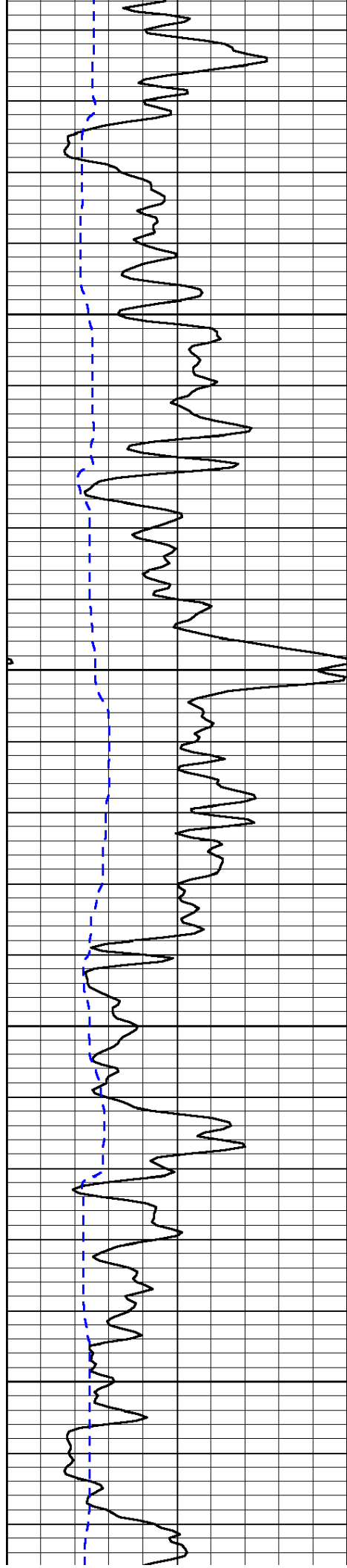
0	Gamma Ray	150	Sonic Int	140	Delta Time (usec/ft)	40
150	Gamma Ray	300	5	0	Sonic Porosity	-10
6	dCAL (GAPI)	16		15000	LTEN (lb)	0
						LSPD

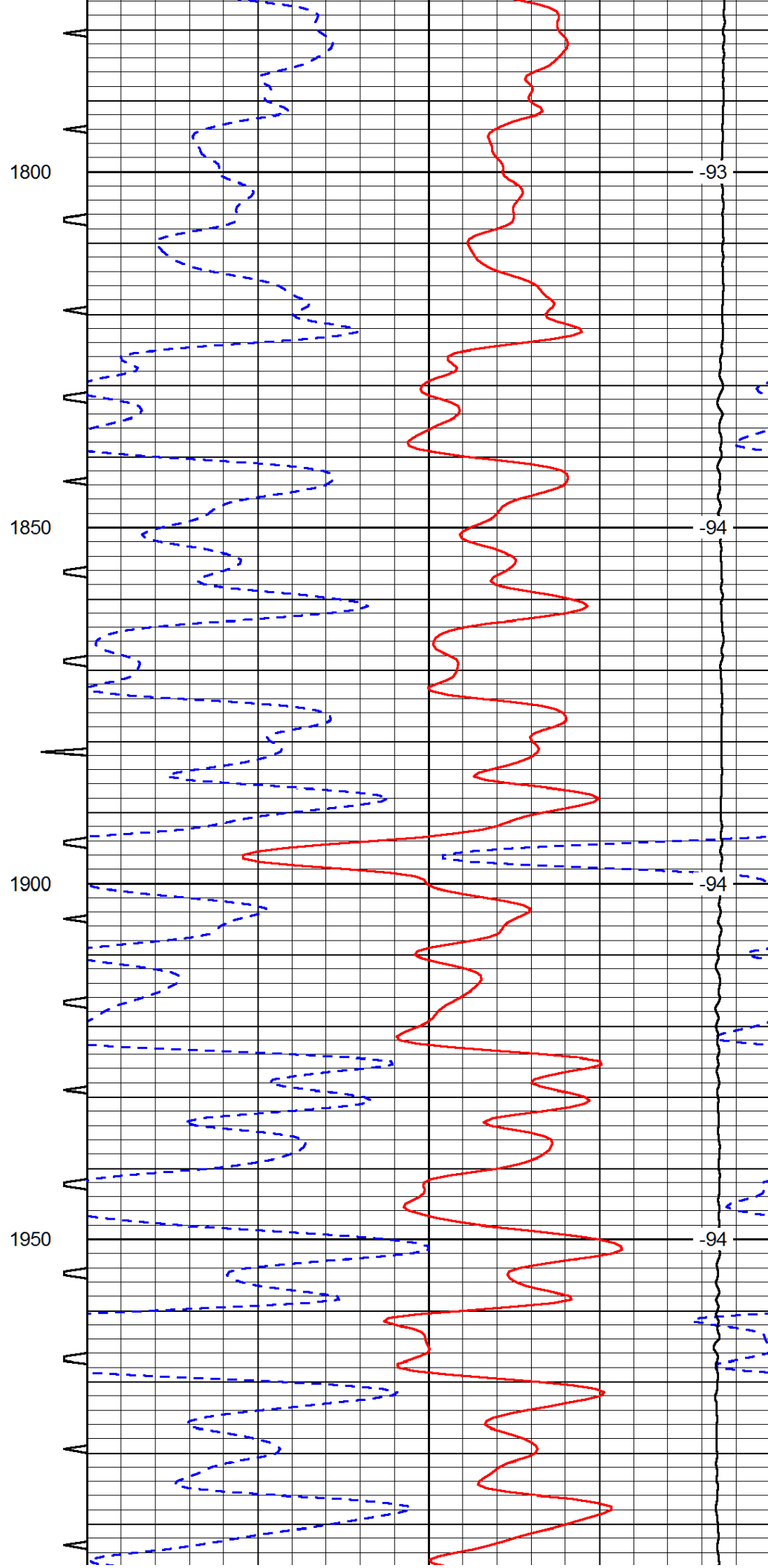
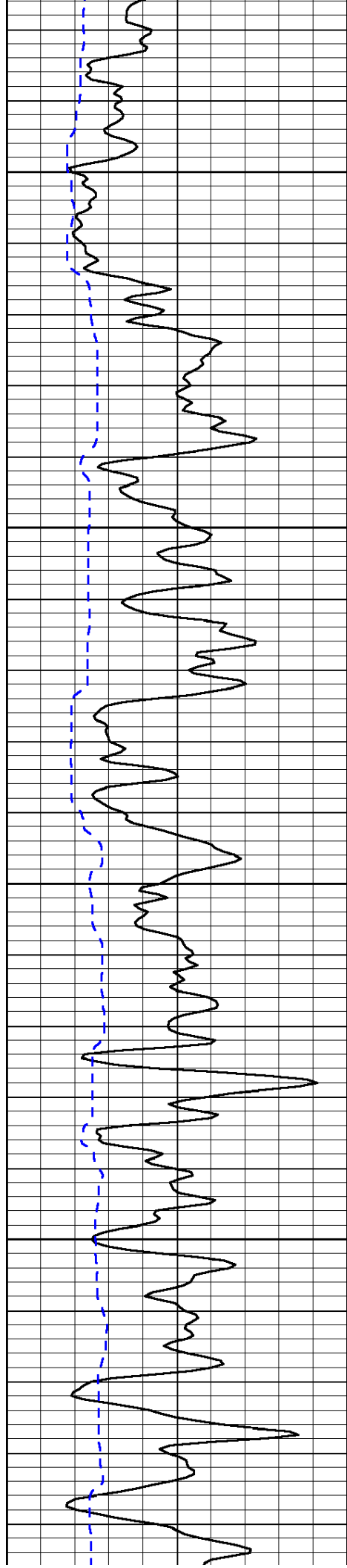


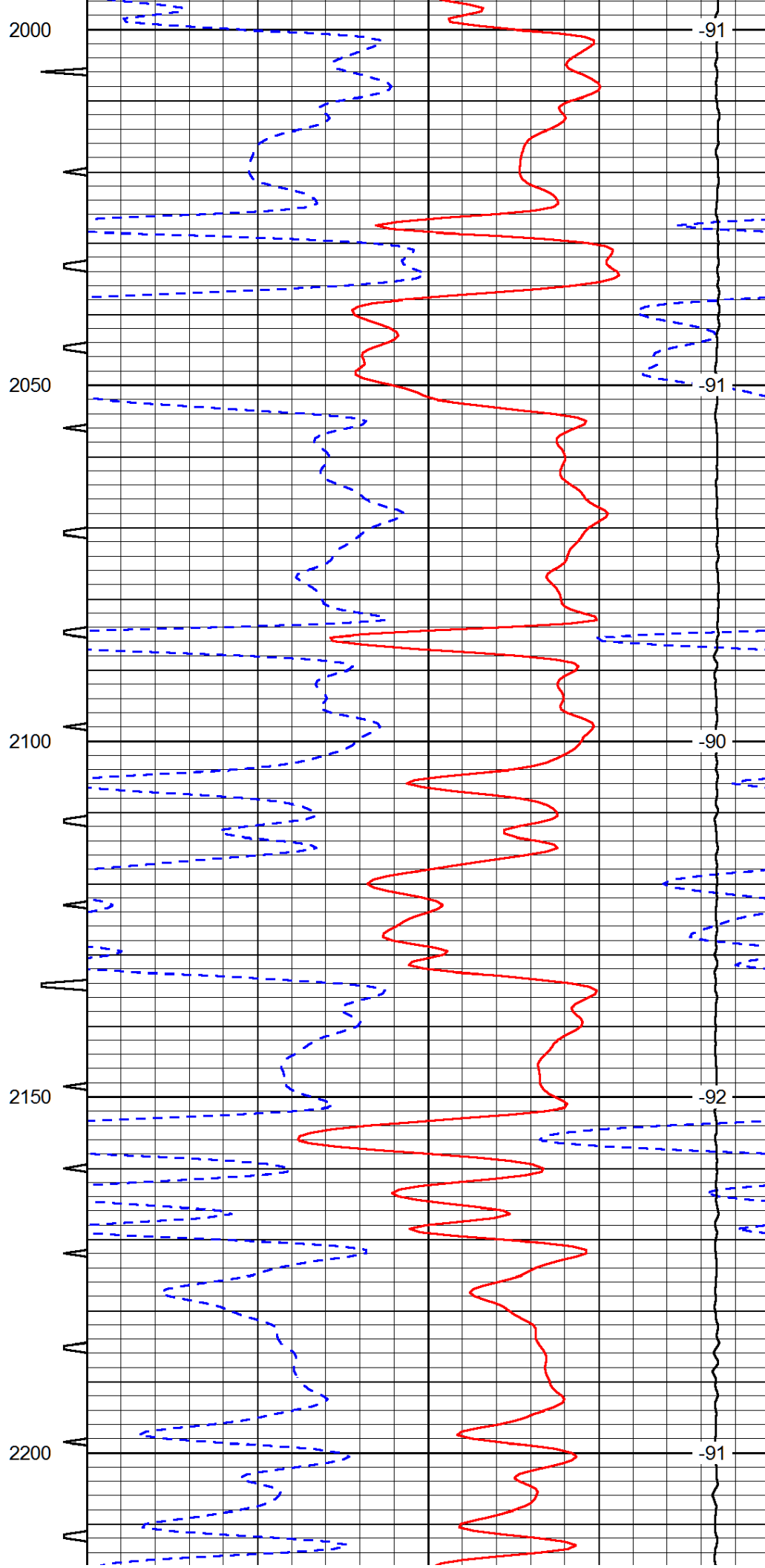
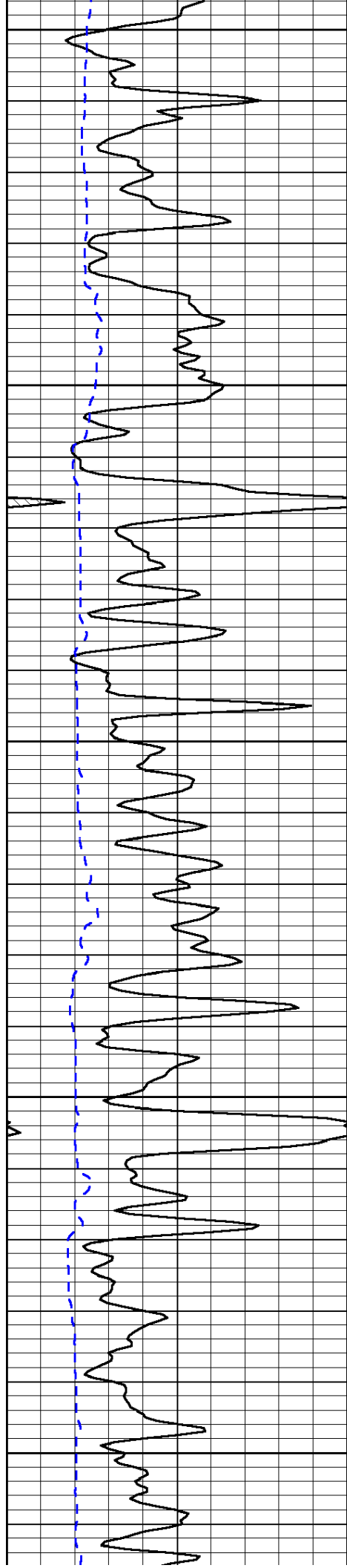


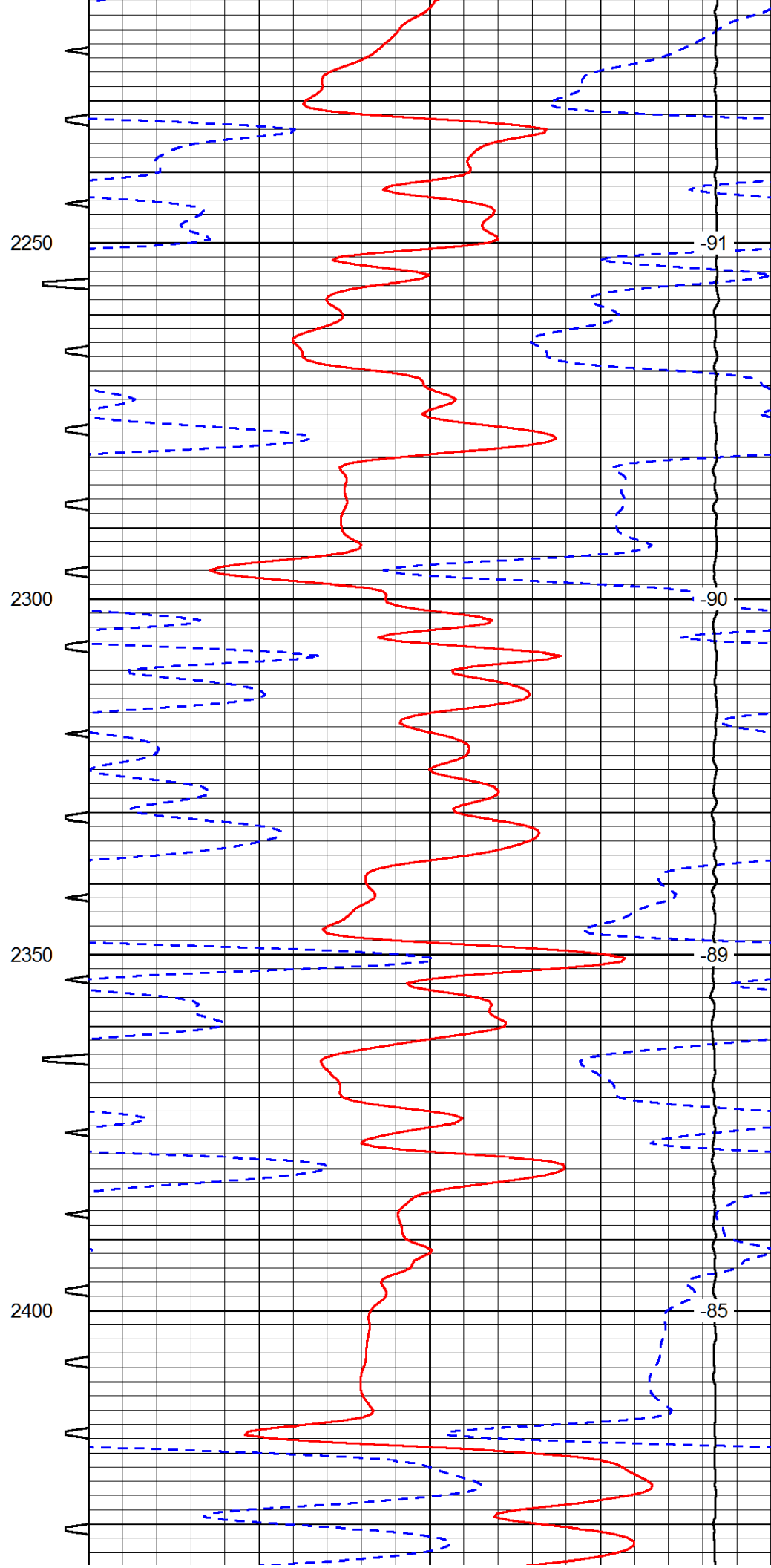
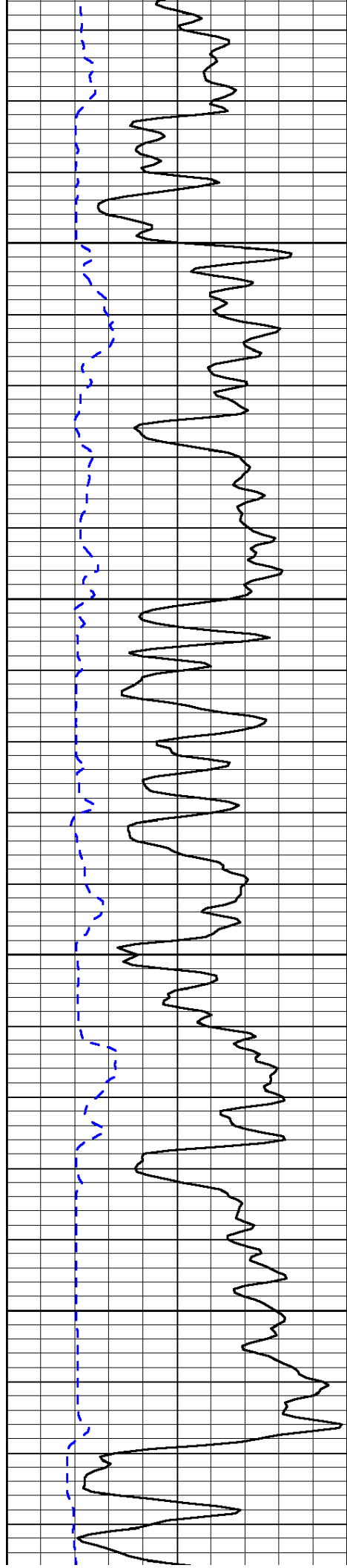


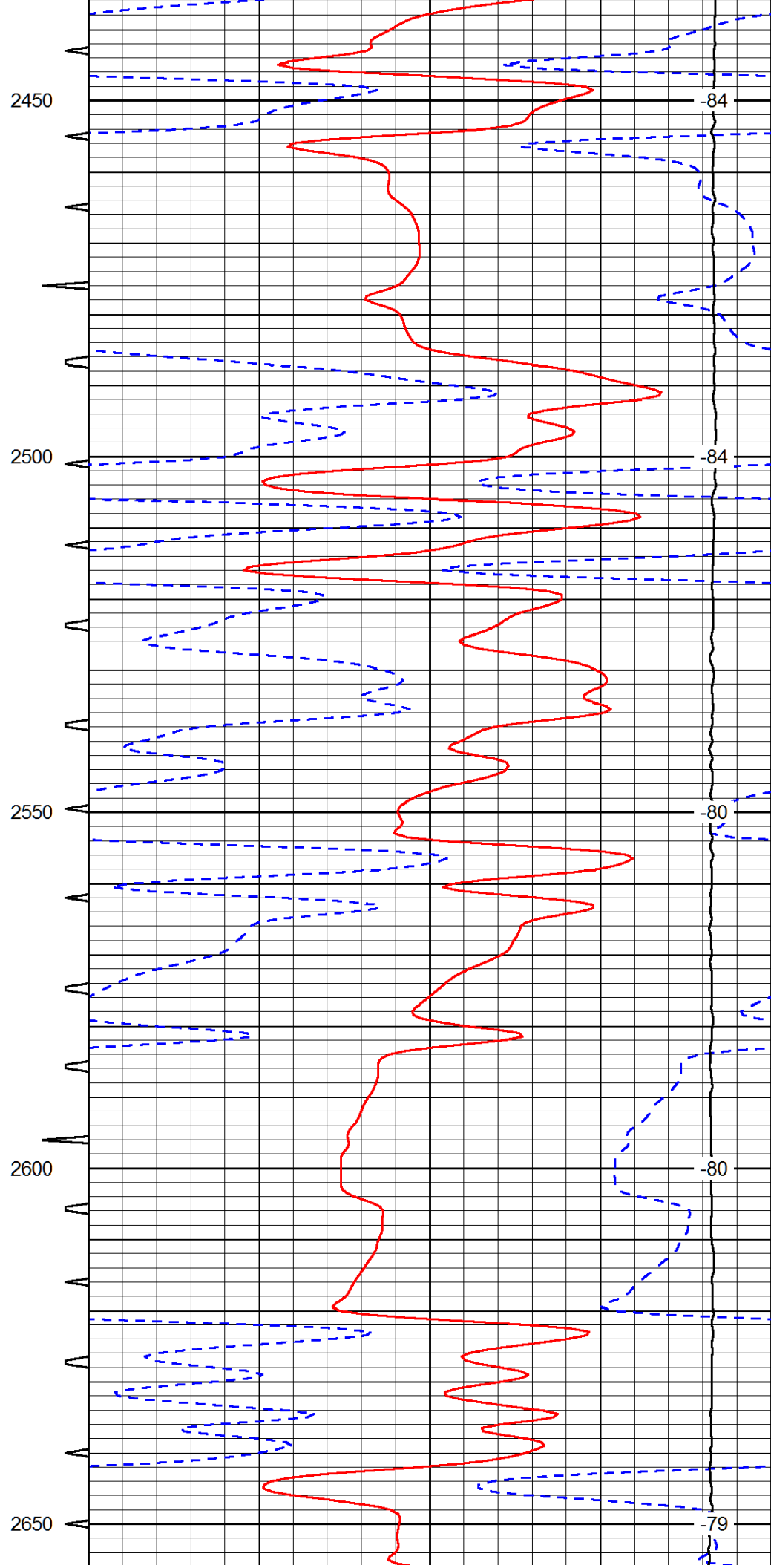
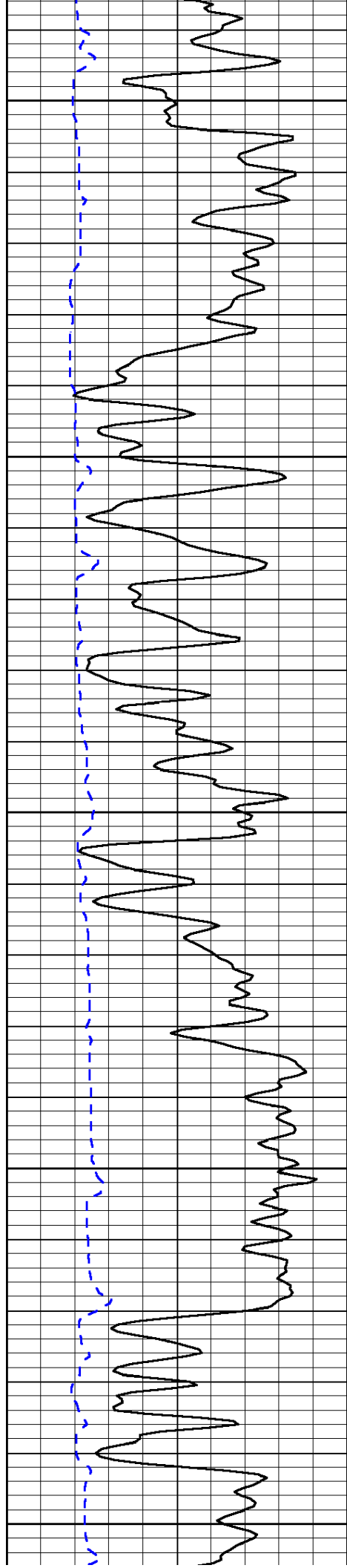


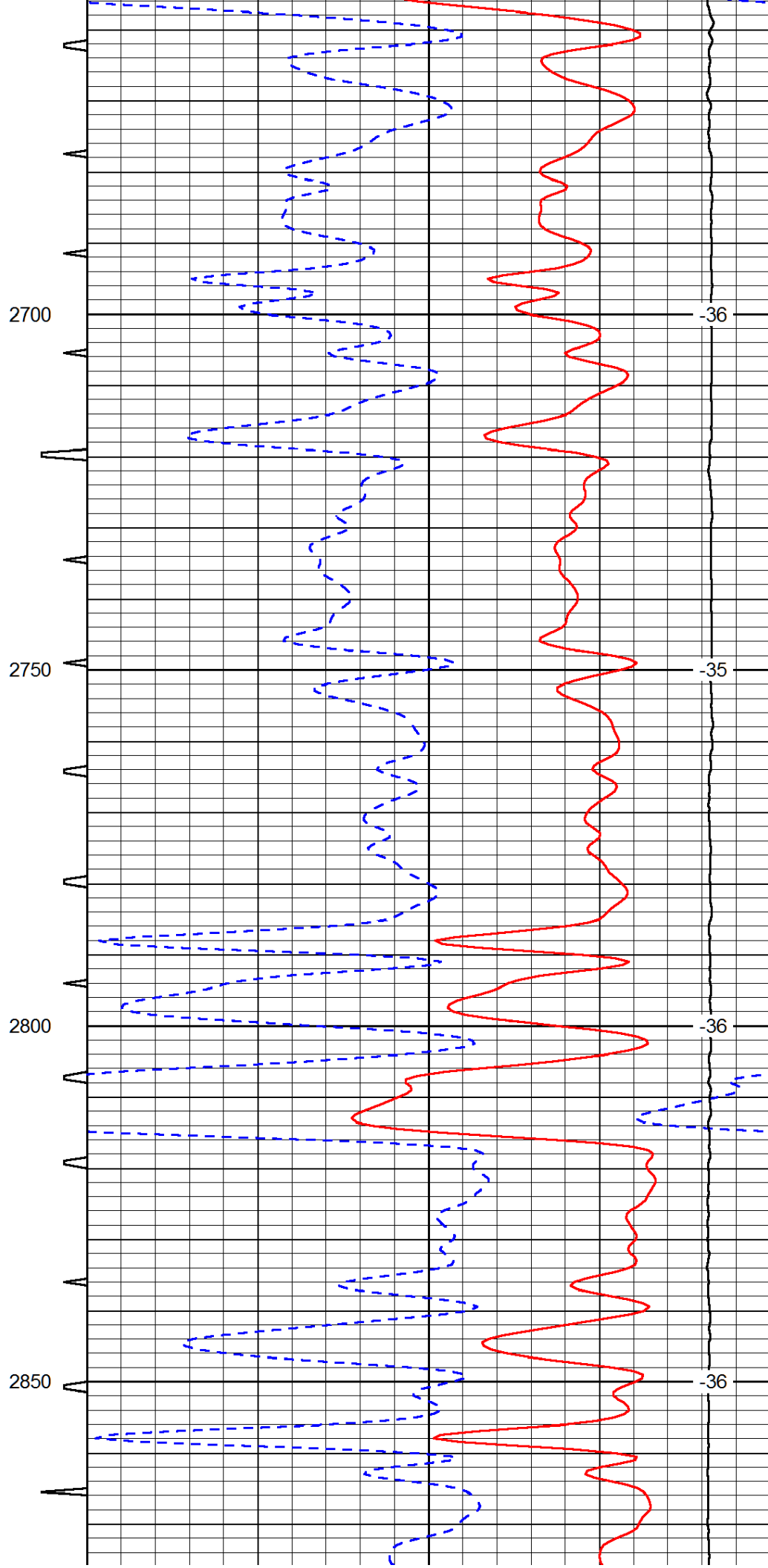
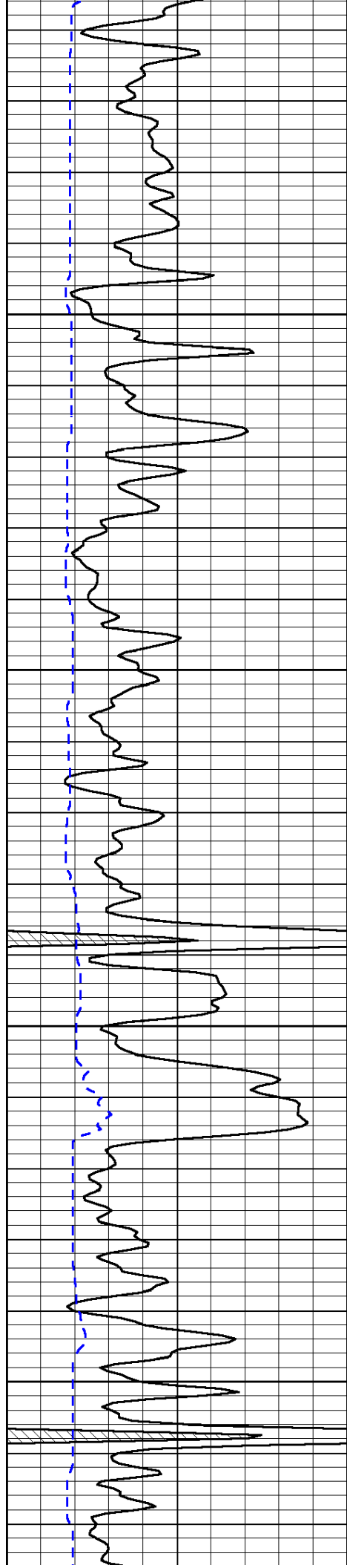


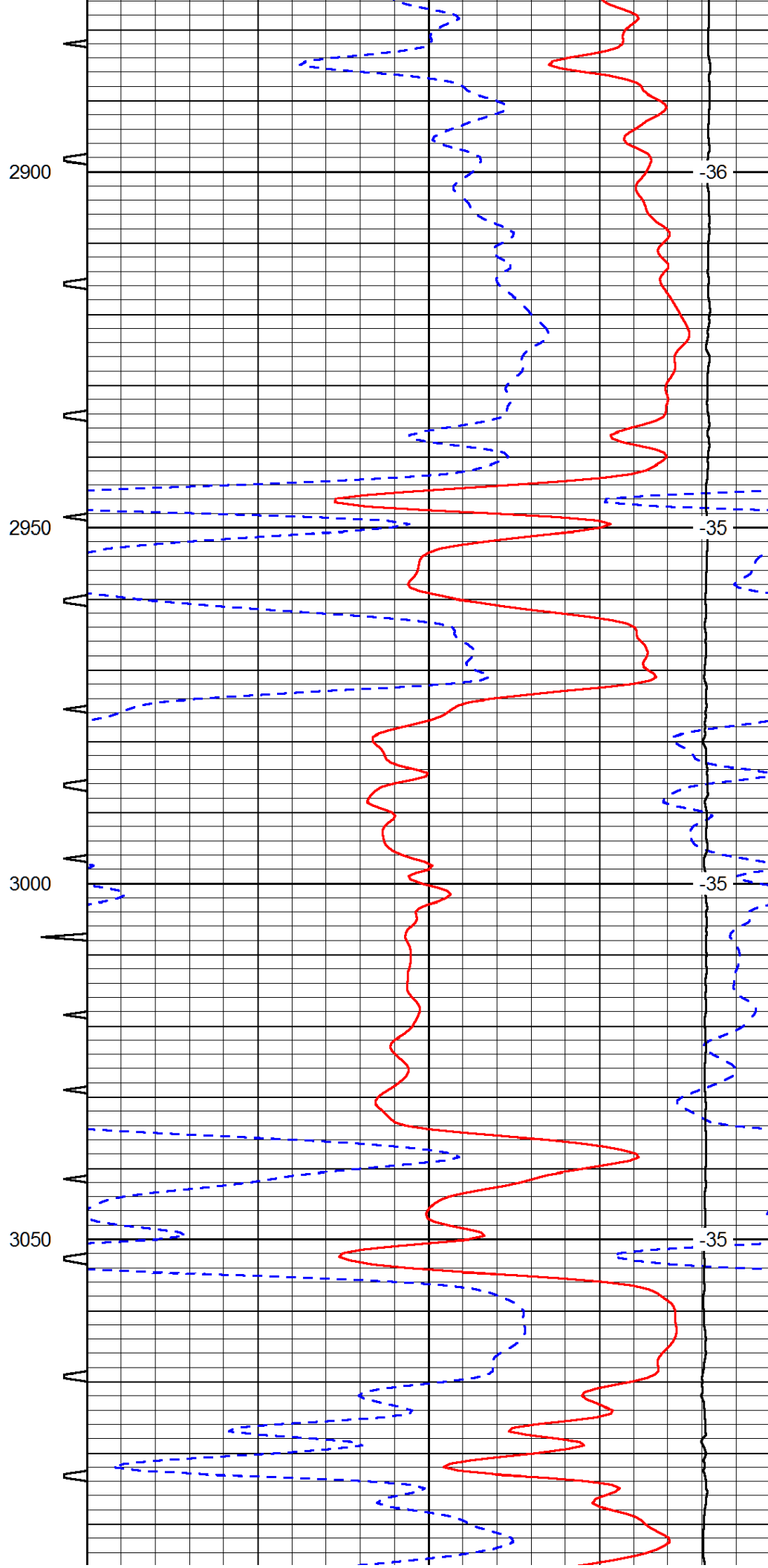
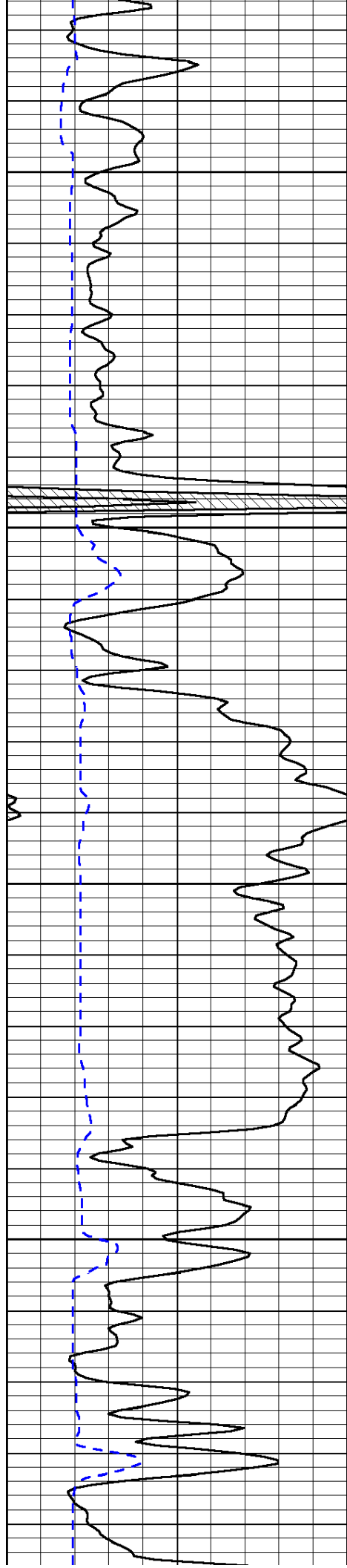


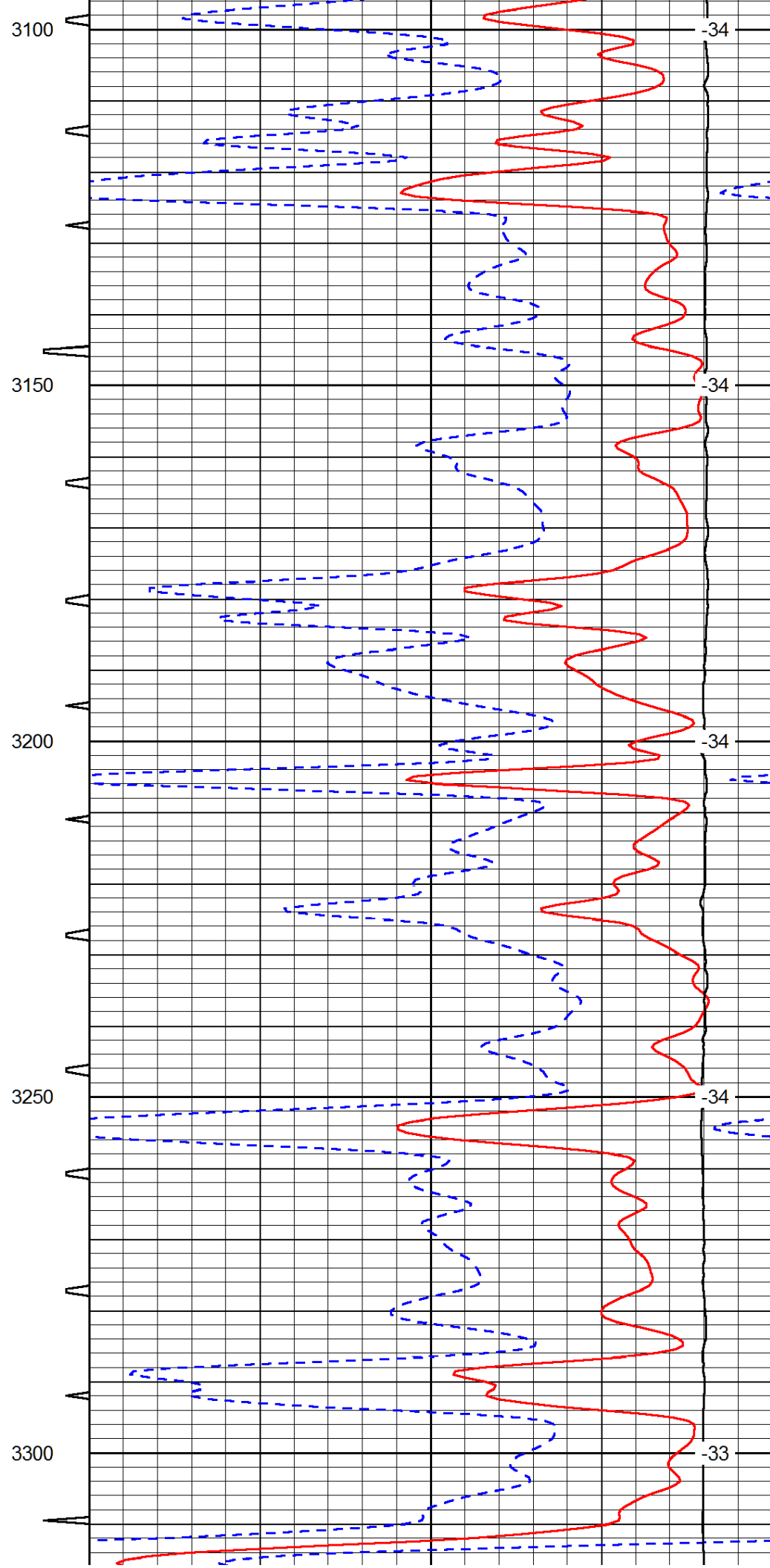
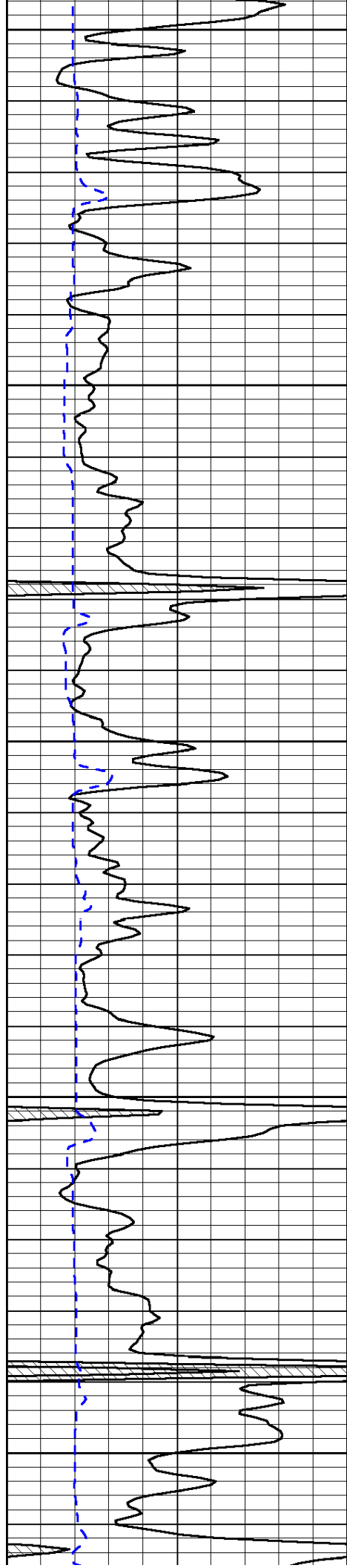


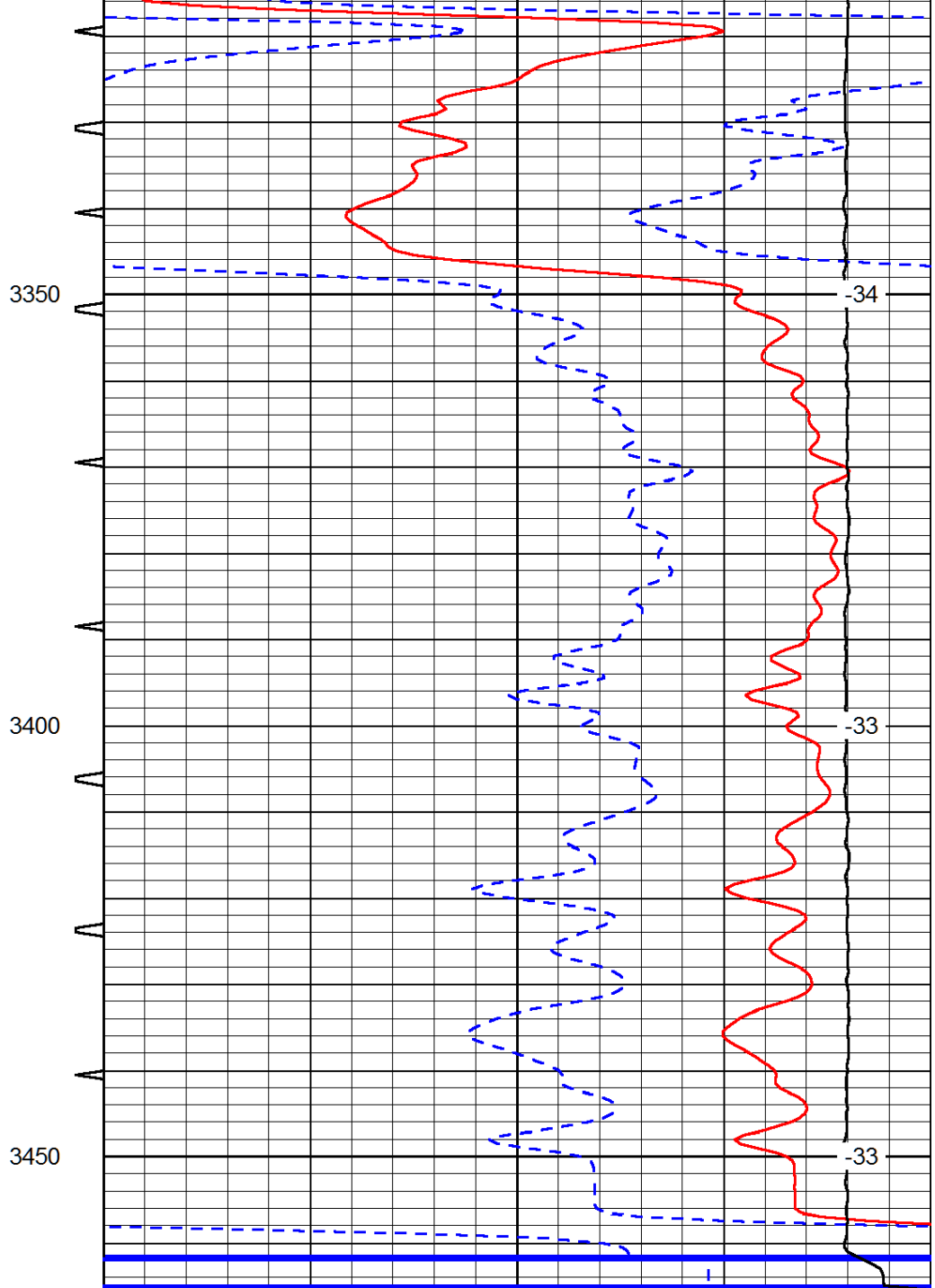
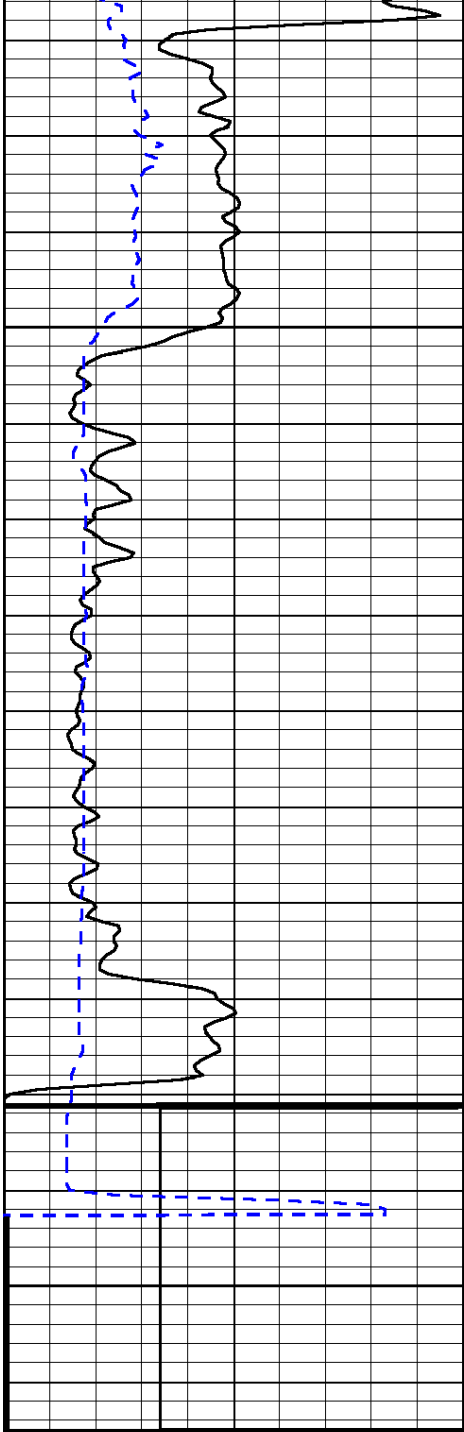












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