



Pioneer Energy Services

Borehole Compensated Sonic Log

15-055-22,265-00-00

API No.

Company American Warrior, Inc.
Well Neeley #8 Twin
Field Congdon
County Finney
State Kansas

Location

2310' FNL & 1839' FEL

Sec: 33

Twp: 23S

Rge: 32W

Other Services
CNL/CDL
MEL/DIL

Elevation

Permanent Datum Ground Level Elevation 2834
Log Measured From Kelly Bushing 11 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

K.B. 2845
D.F. 2834
G.L. 2834

Date 1/6/2014

Run Number Two

Type Log BHC Sonic

Depth Driller 4850

Depth Logger 4850

Bottom Logged Interval 4839

Top Logged Interval 1700

Type Fluid In Hole Chemical

Salinity, PPM CL 3,200

Density 9.4

Level Full

Max. Rec. Temp. F 125

Operating Rig Time 5 Hours

Equipment -- Location 108 Hays

Recorded By J. Henrickson

Witnessed By Kevin Timson

Borehole Record

Casing Record

Run No. Bit From To Size Wgt. From To

1 12.25 00 1710 8.625 24# 00 1710

2 7.875 1710 4850

<<< Fold Here >>>

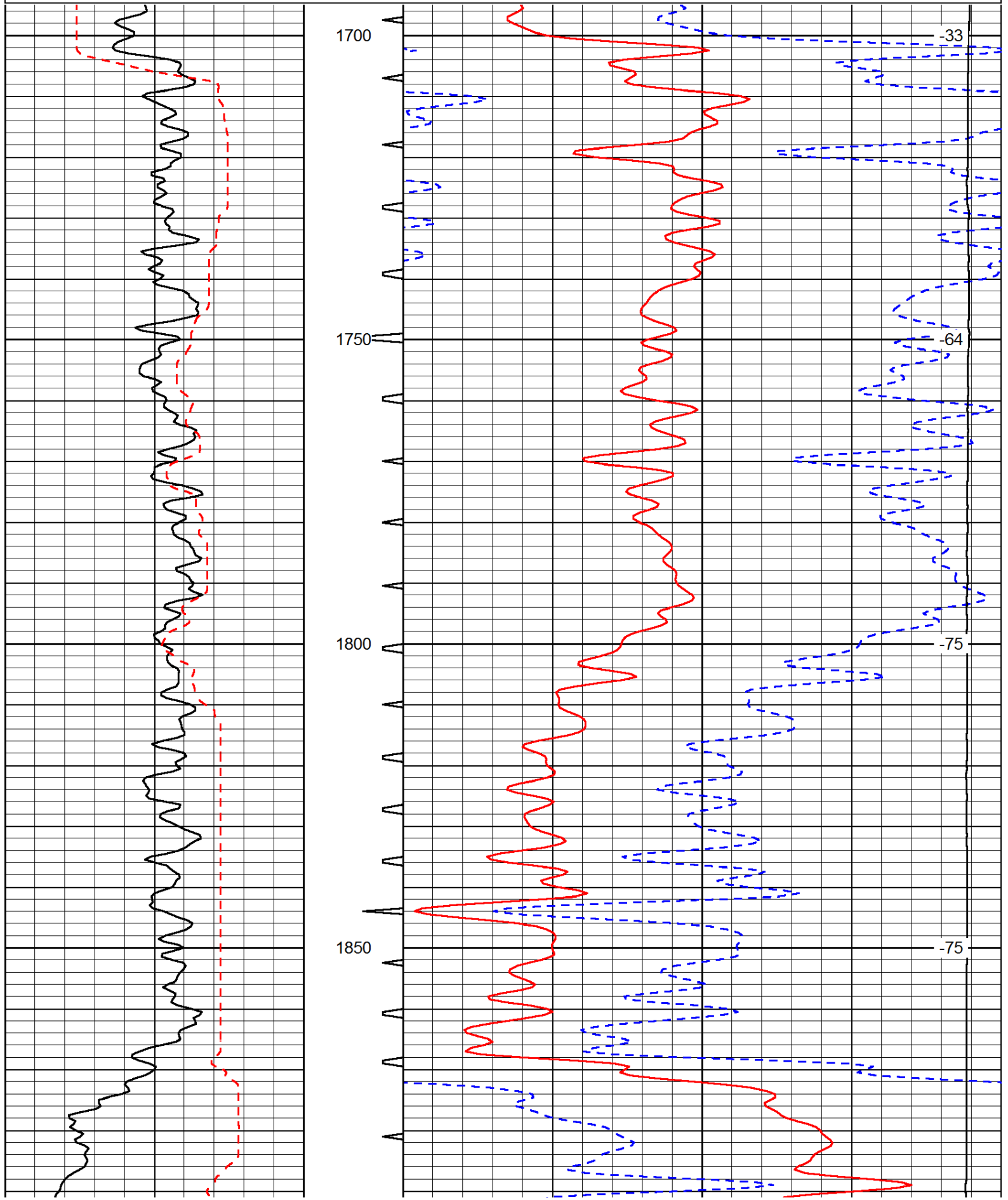
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

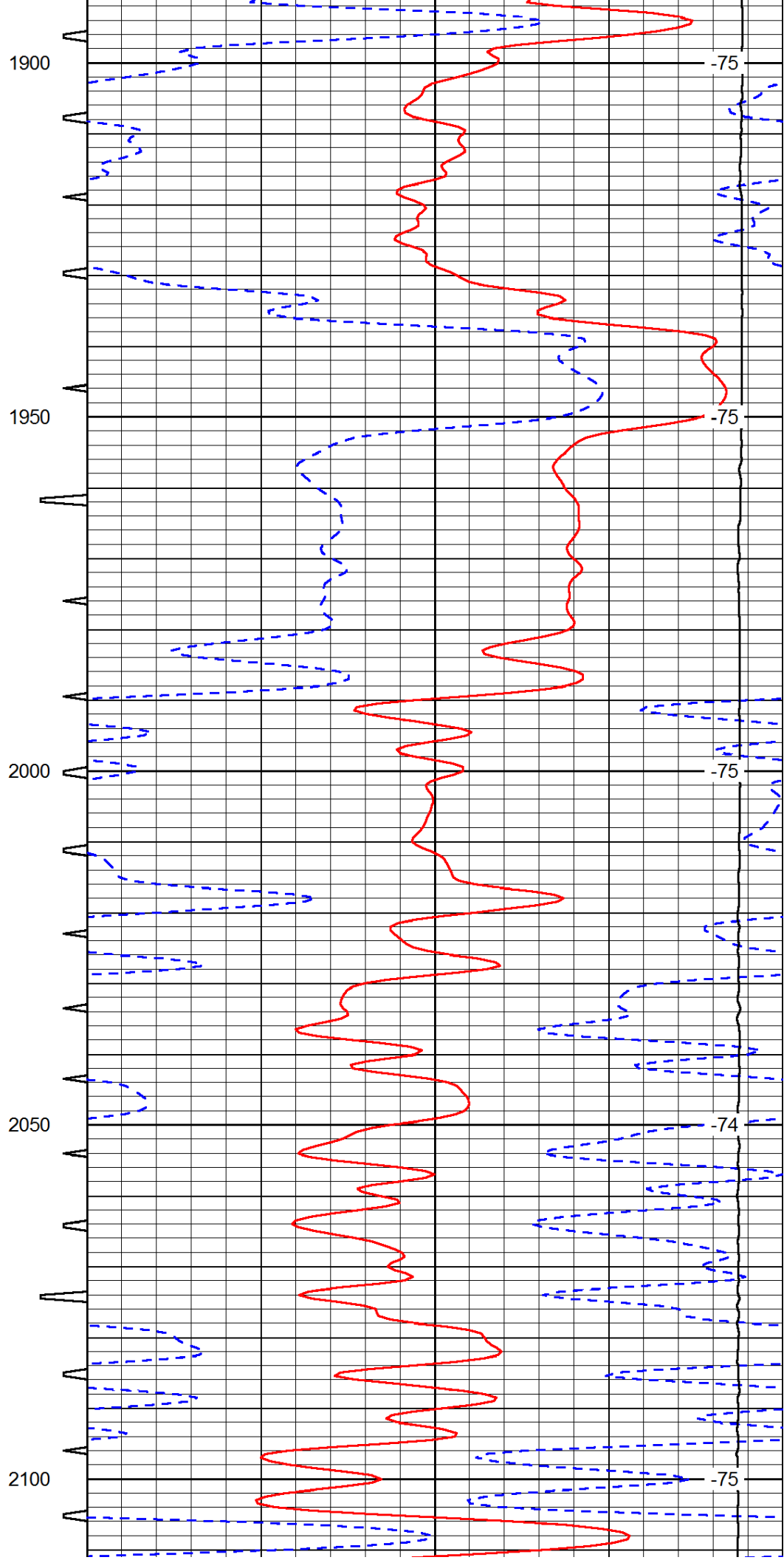
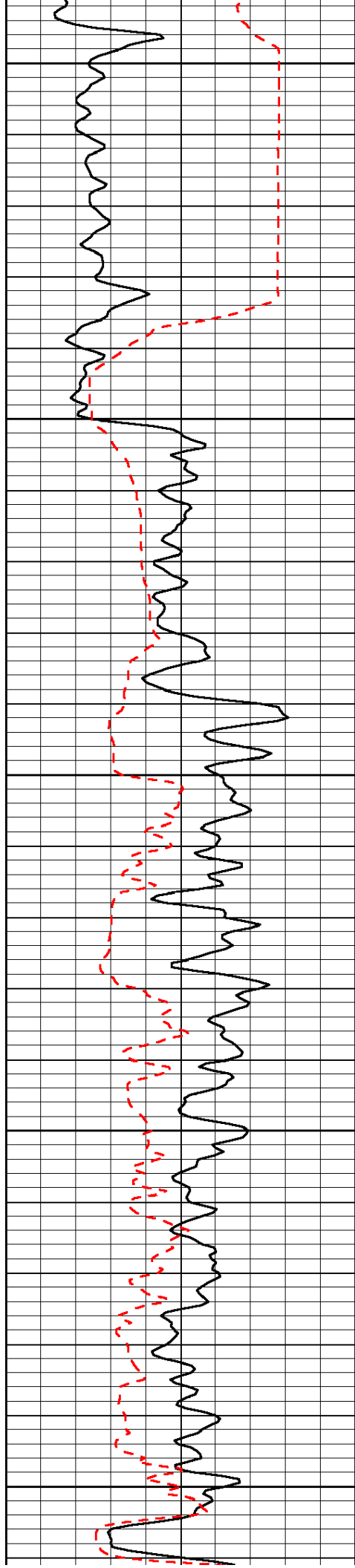
Comments

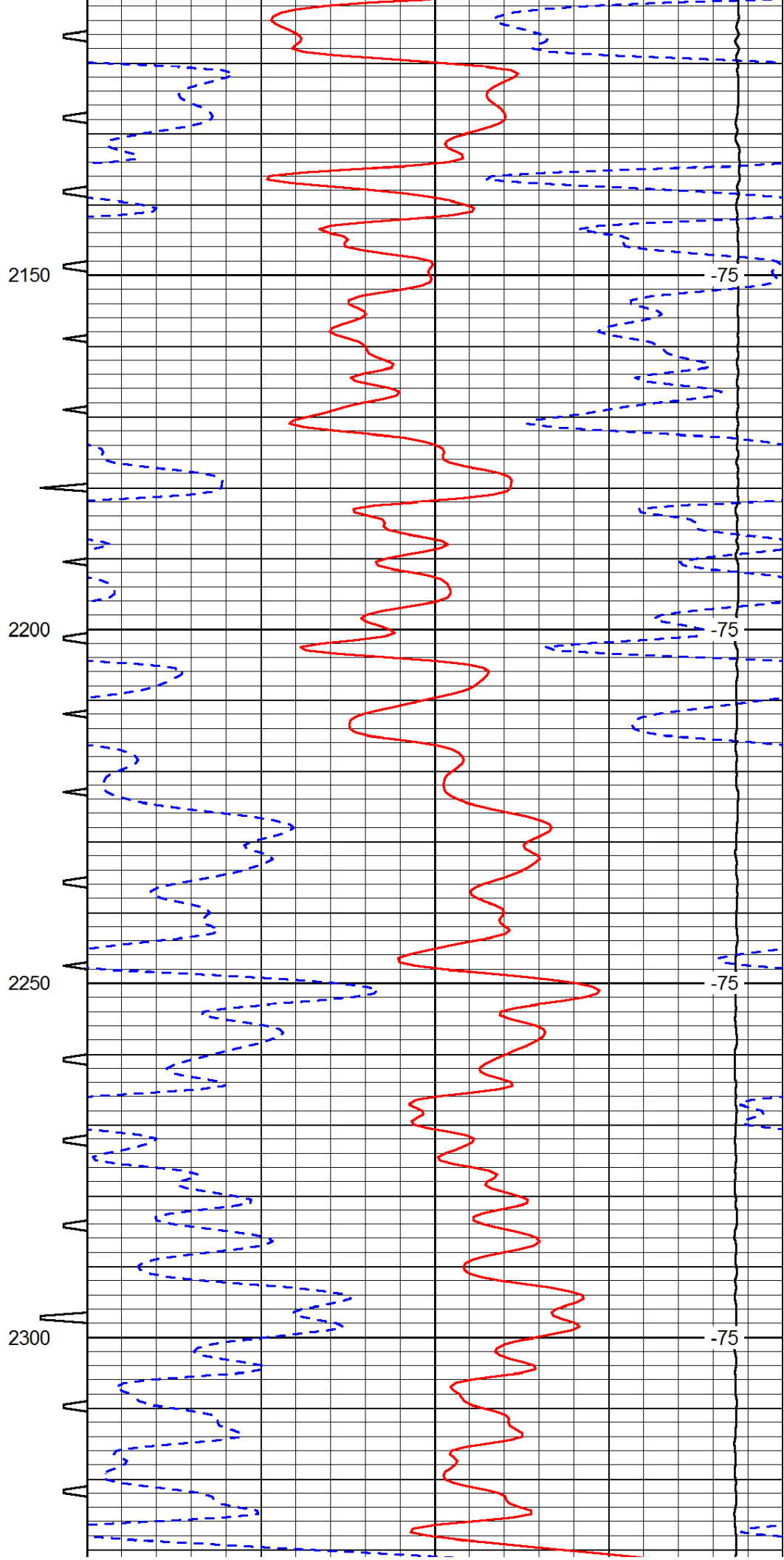
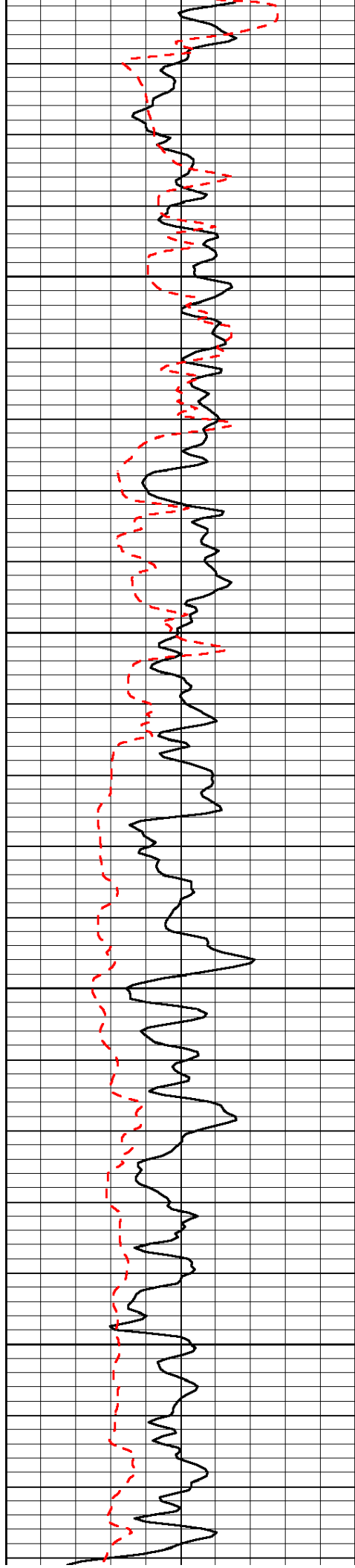
Thank you for using Pioneer Energy Services
www.pioneerres.com
785 625 3858
Garden City Kansas
East on Mary Street to Jennie Barker Rd, 1 1/2 Miles North,
West Into at Yellow Gate

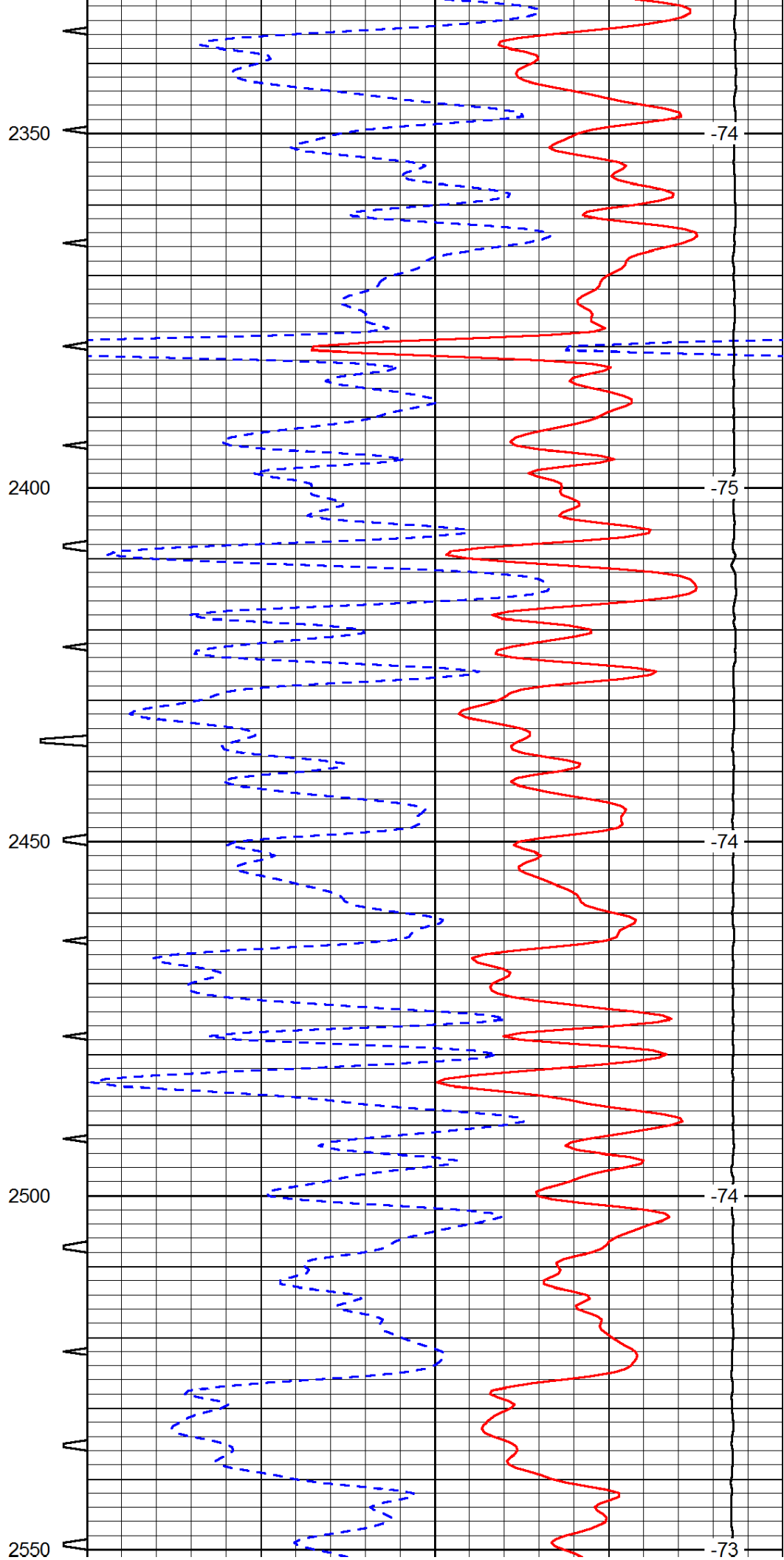
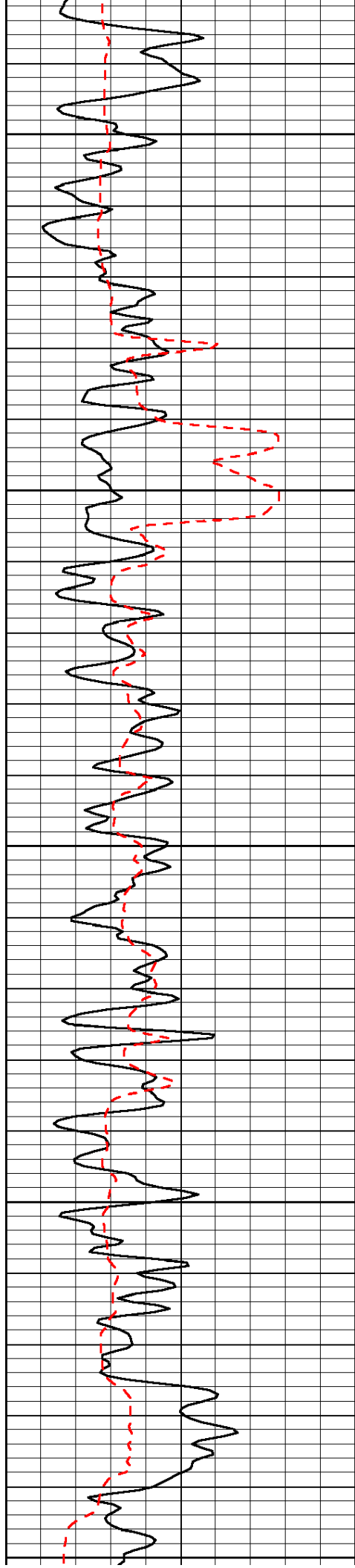
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Dataset Pathname: DIL\awstk
Presentation Format: sonic
Dataset Creation: Mon Jan 06 19:47:29 2014
Charted by: Depth in Feet scaled 1:240

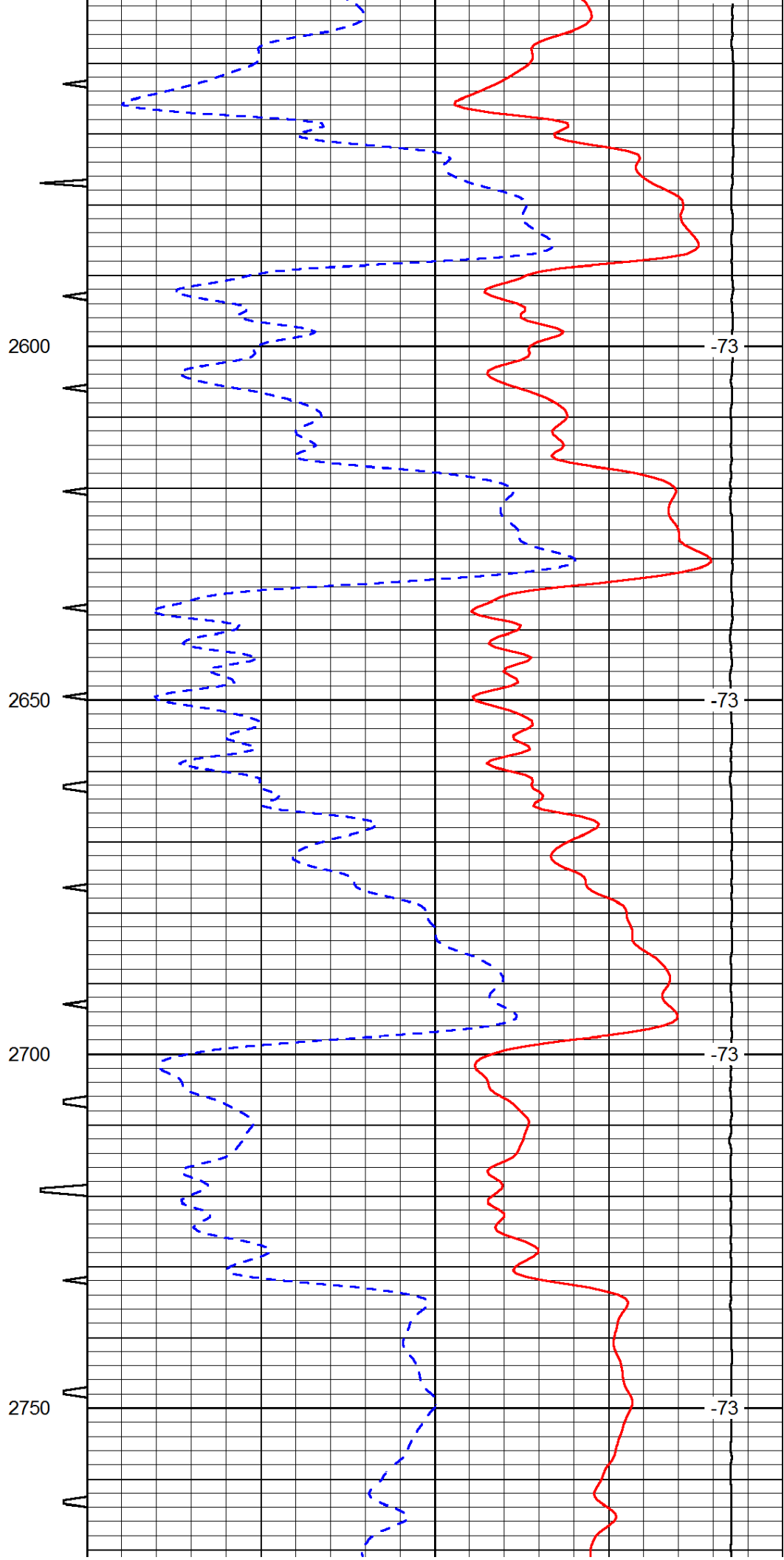
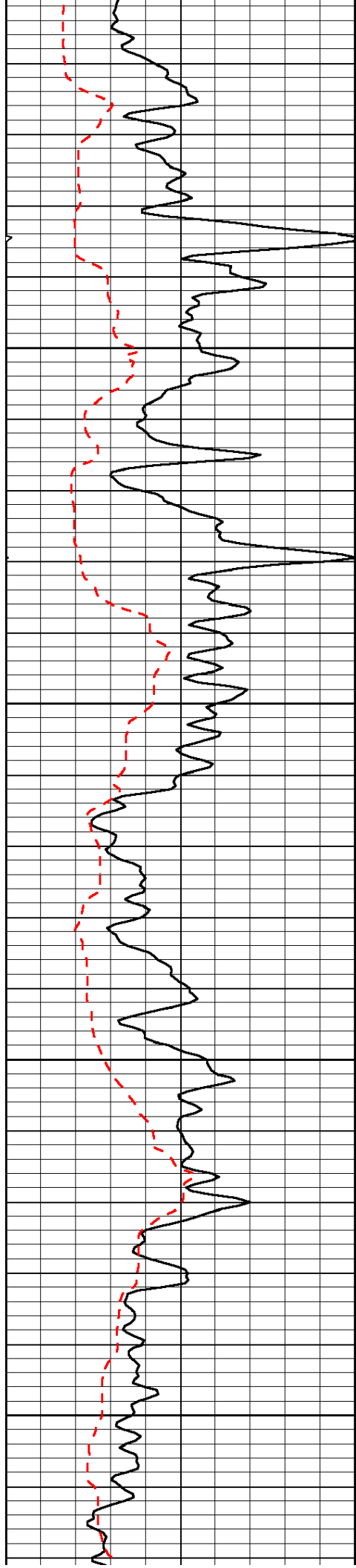
Charted by:			Depth in Feet scaled 1:2.16			
0	Gamma Ray	150	Sonic Int	140	Delta Time (usec/ft)	40
150	Gamma Ray	300		30	SPOR	-10
6	Caliper (GAPI)	16		15000	LTEN (lb)	0
					LSPD	

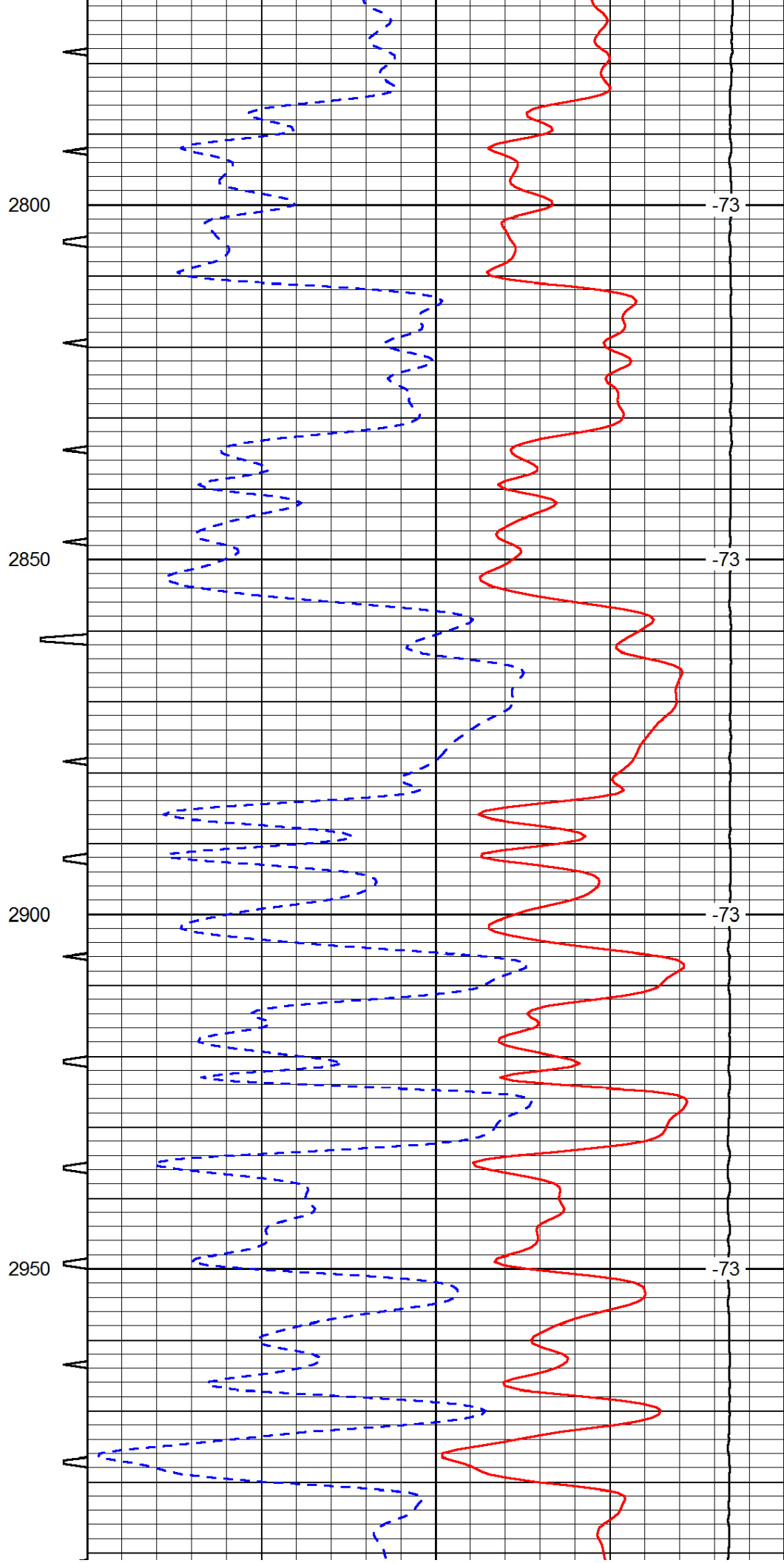
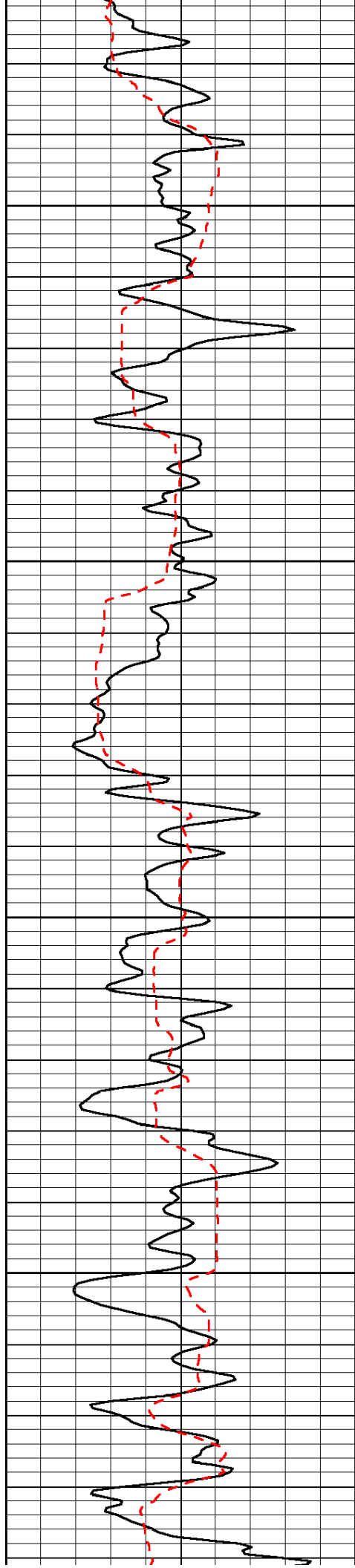


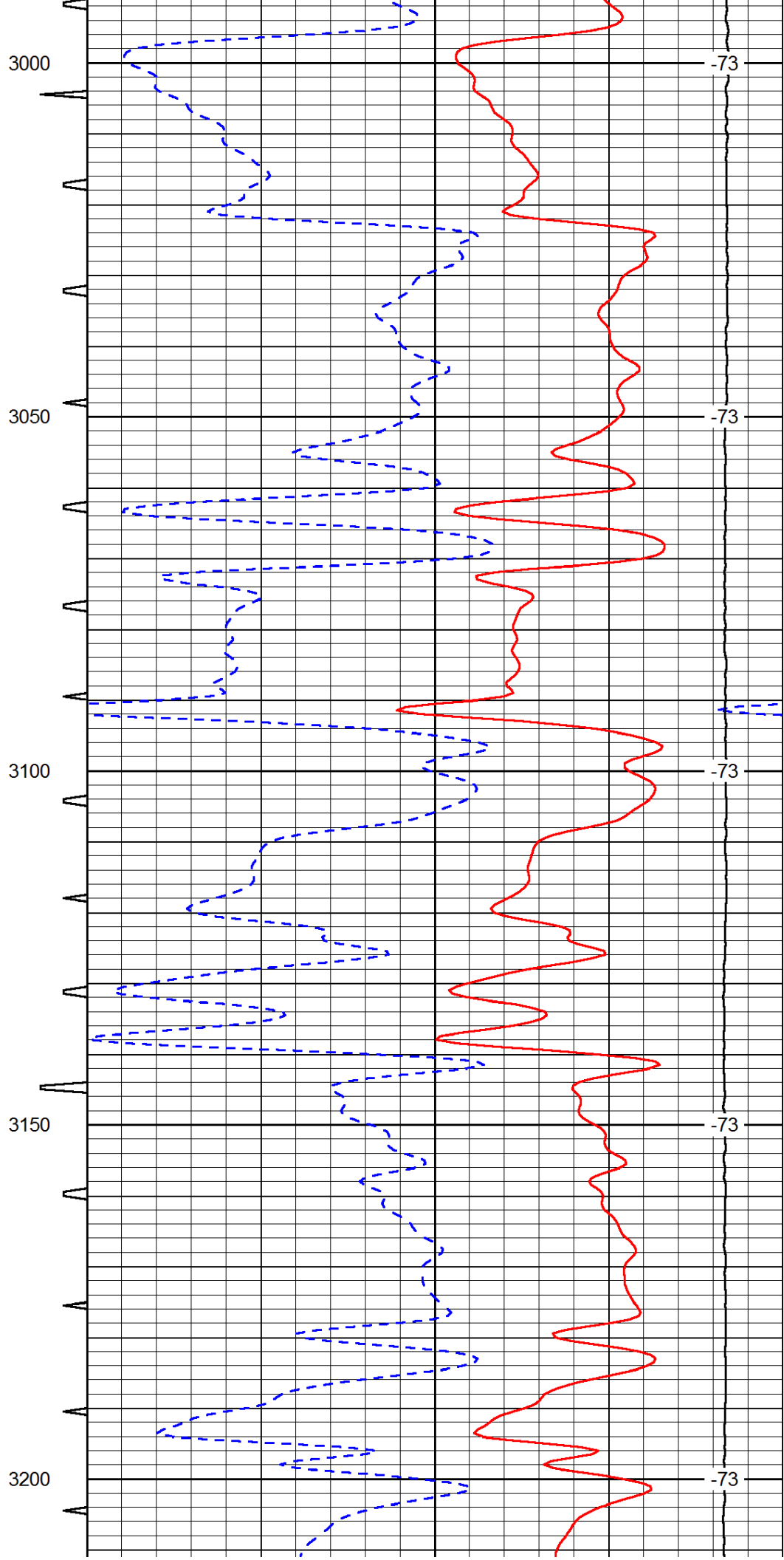
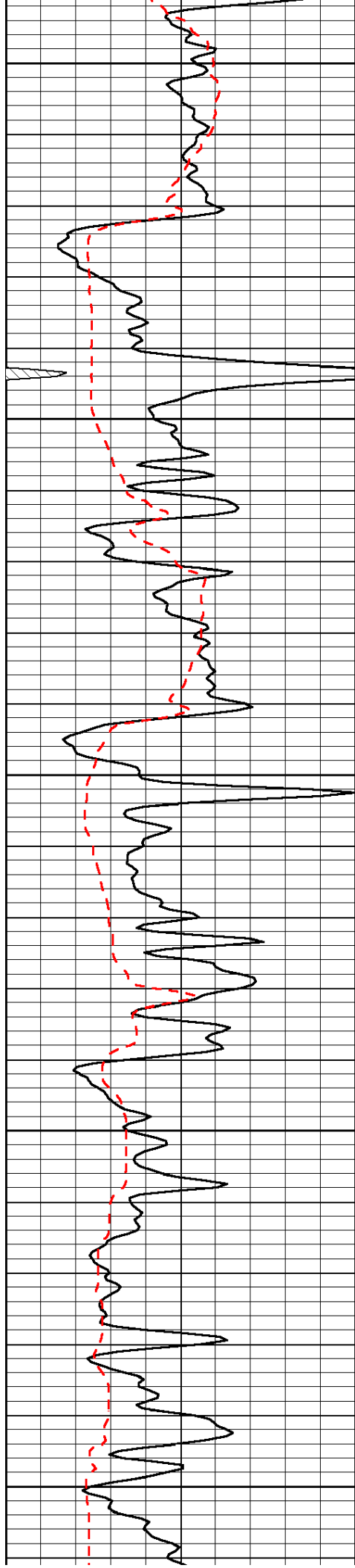


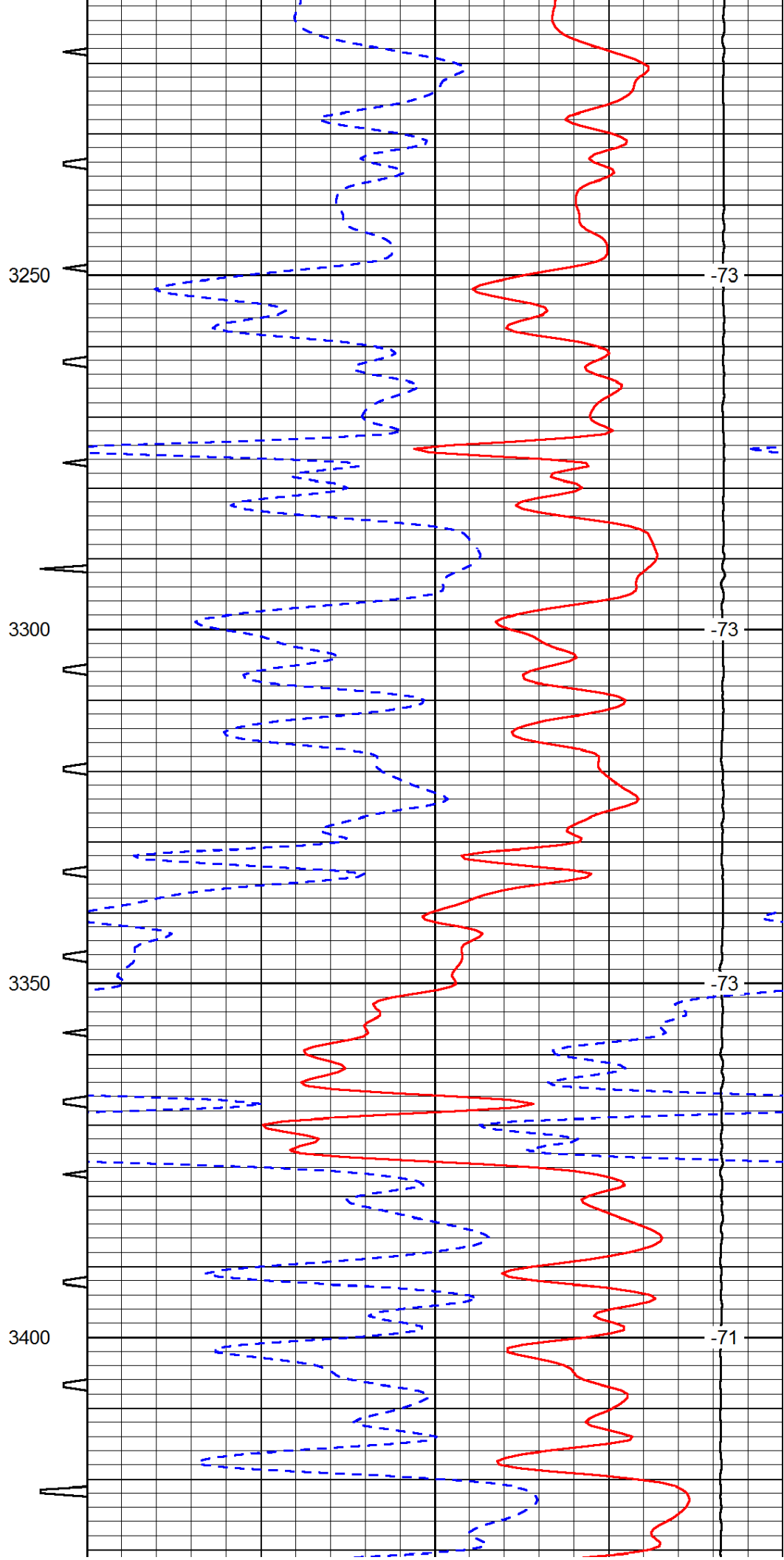
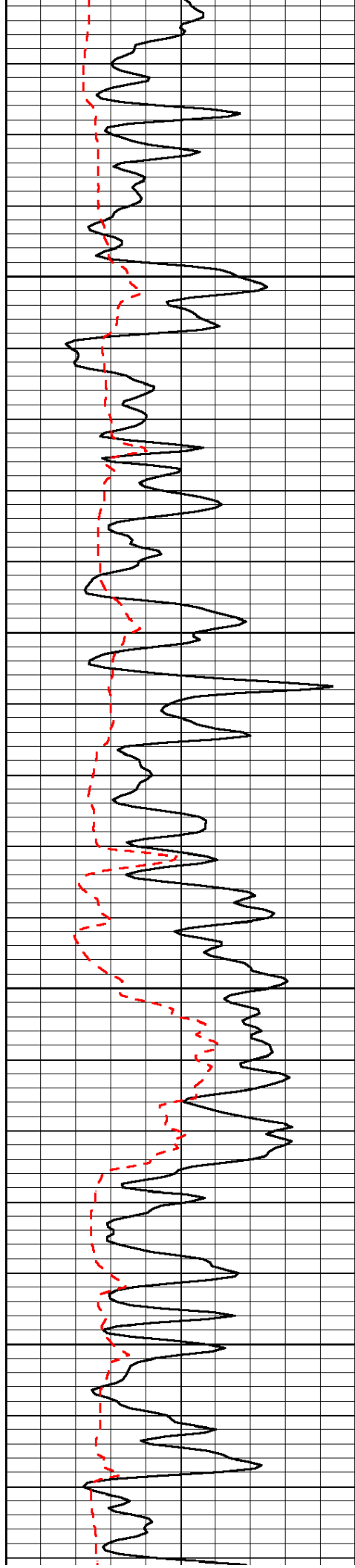


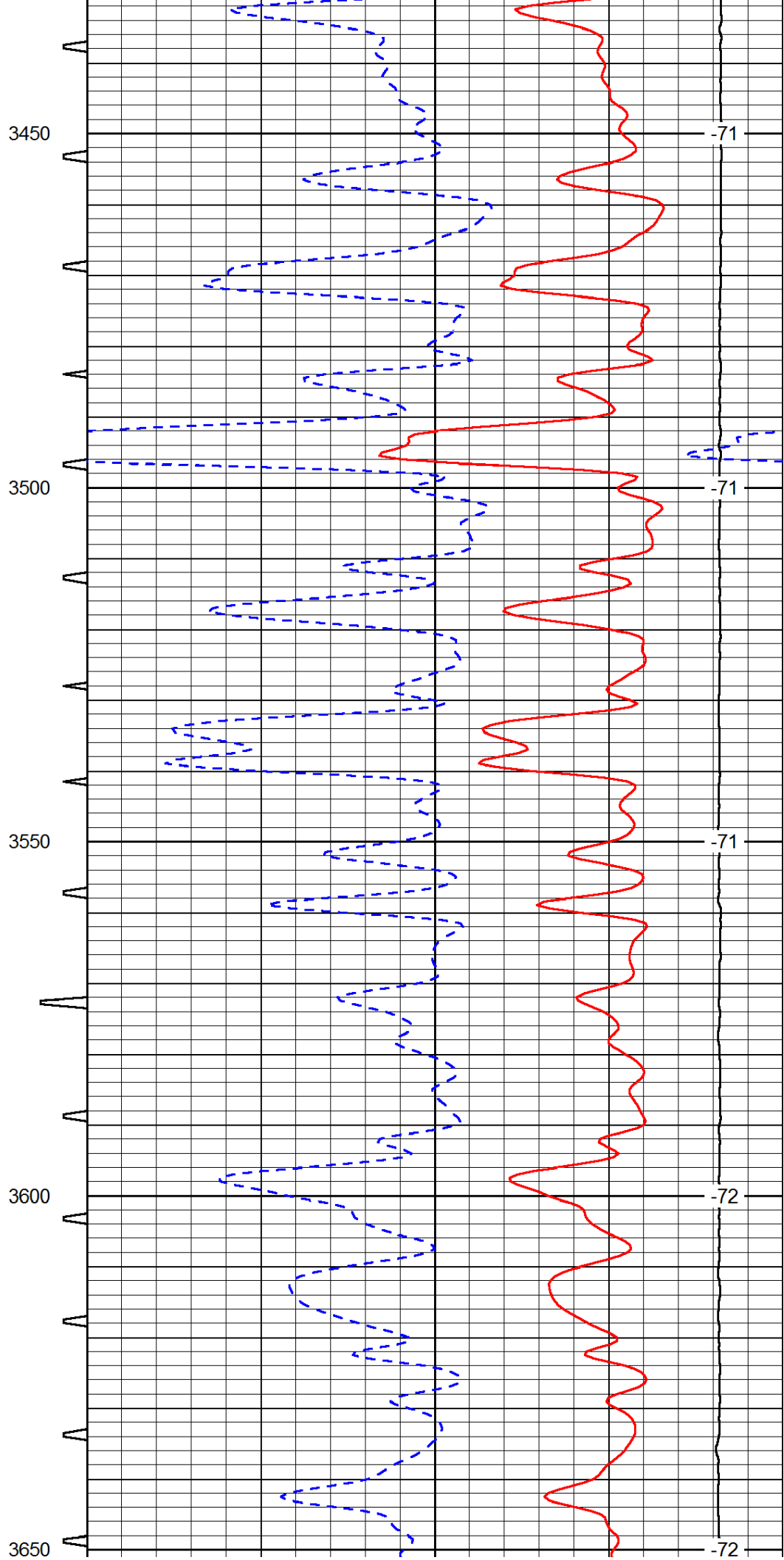
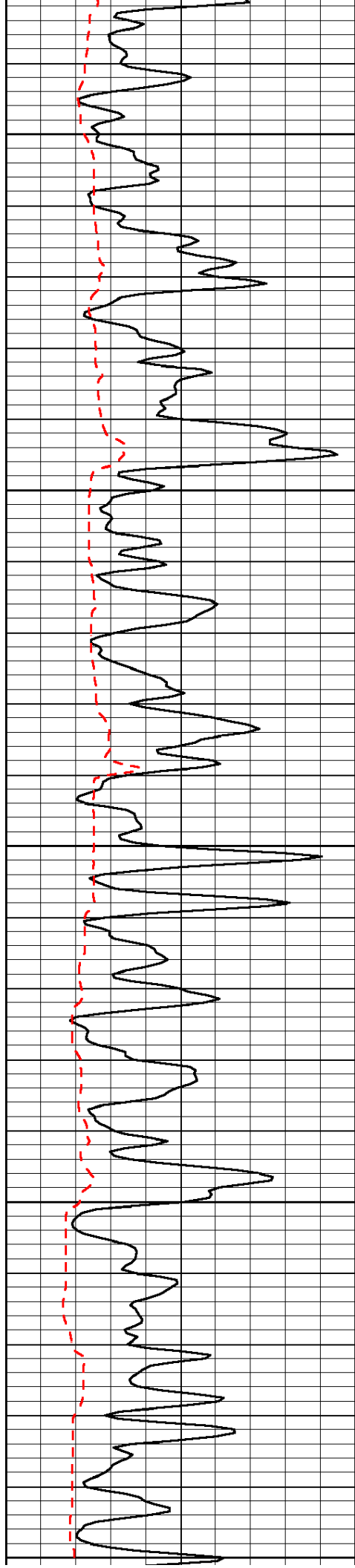


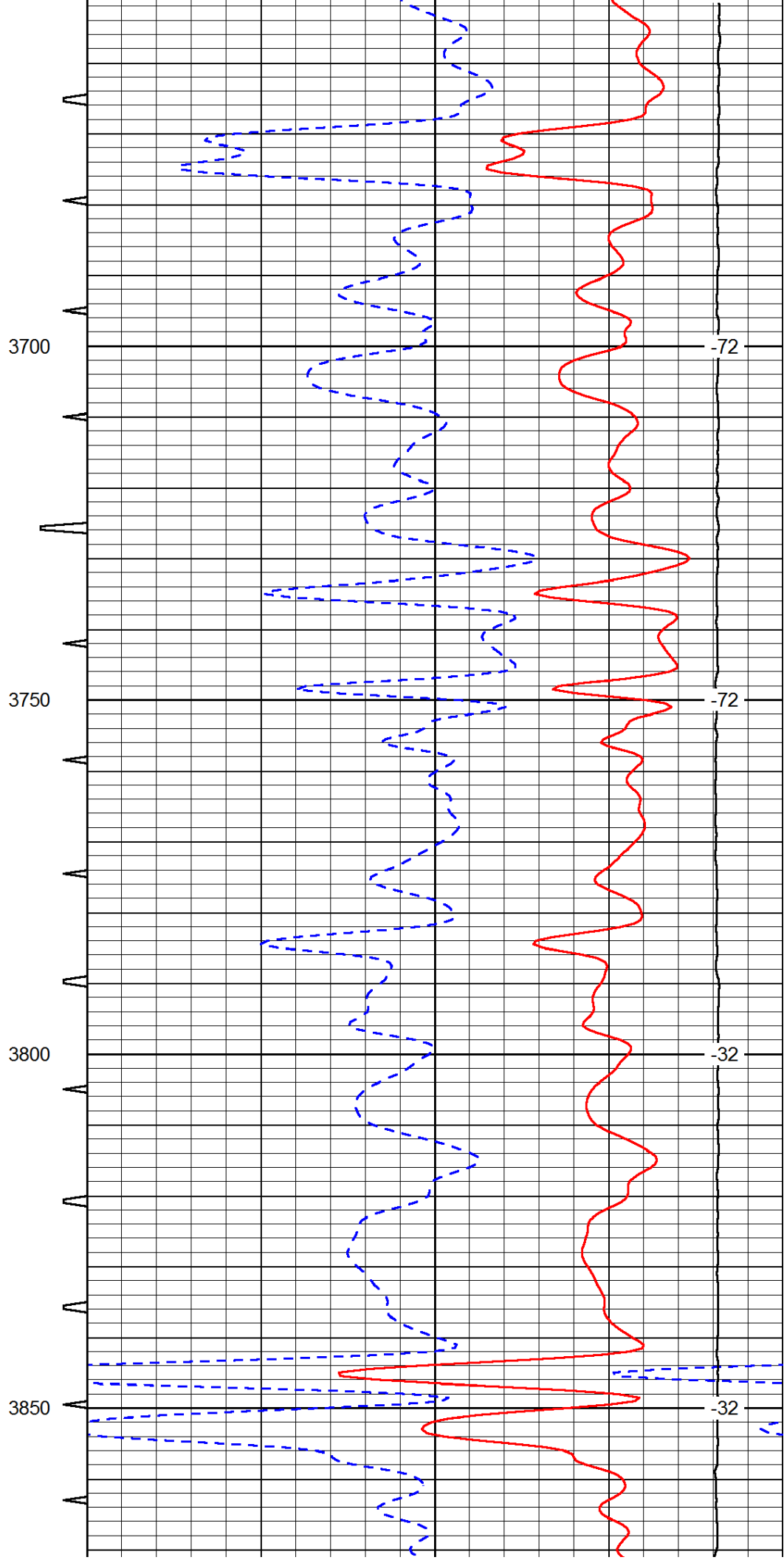
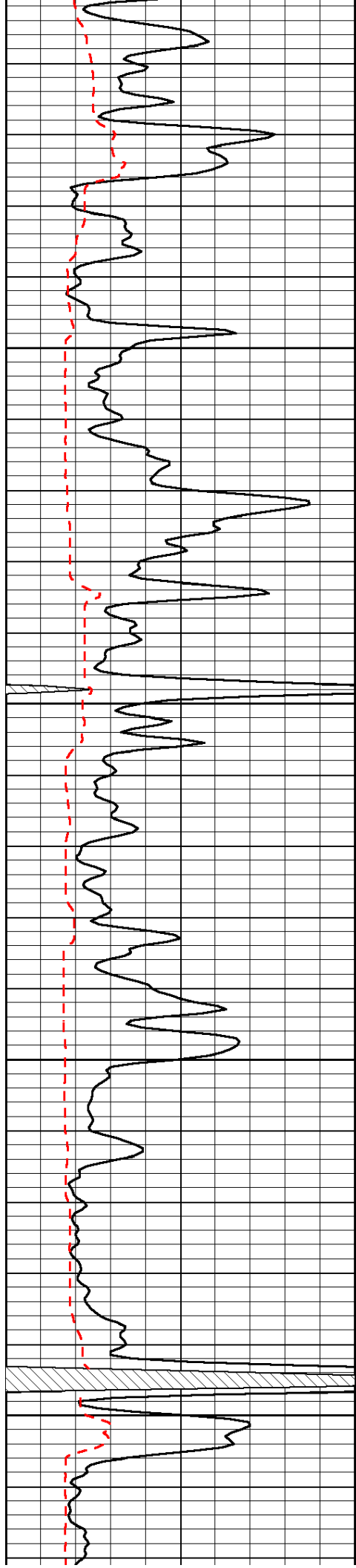


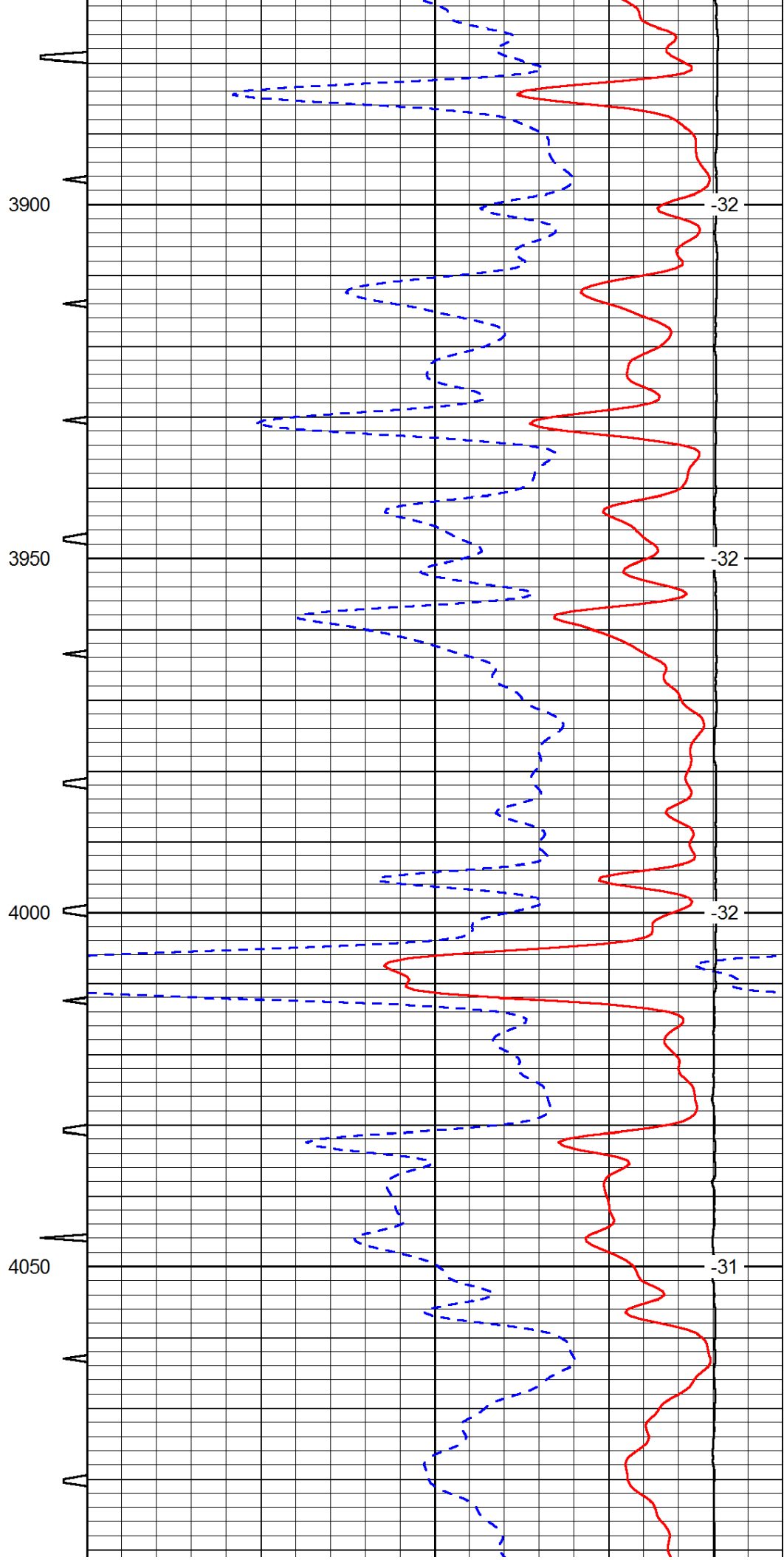
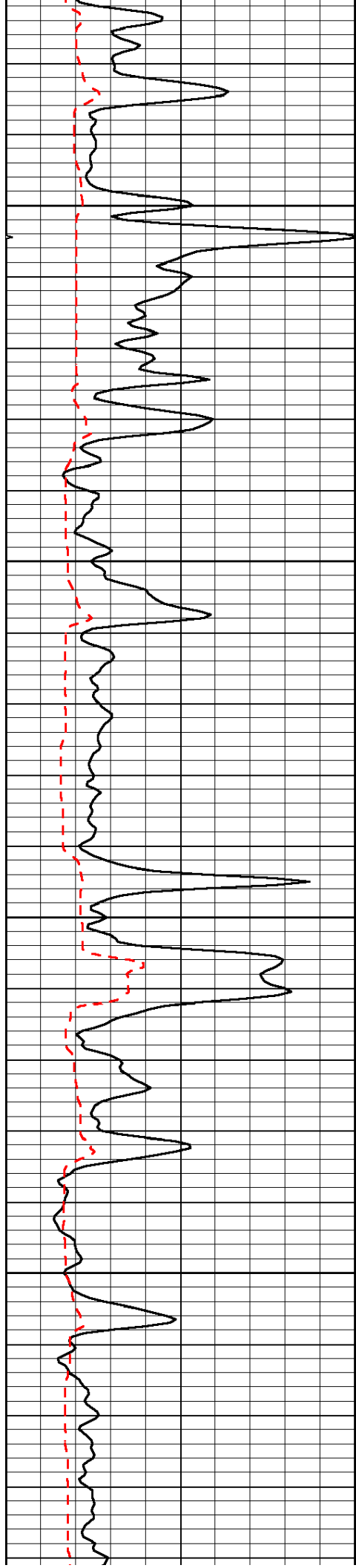


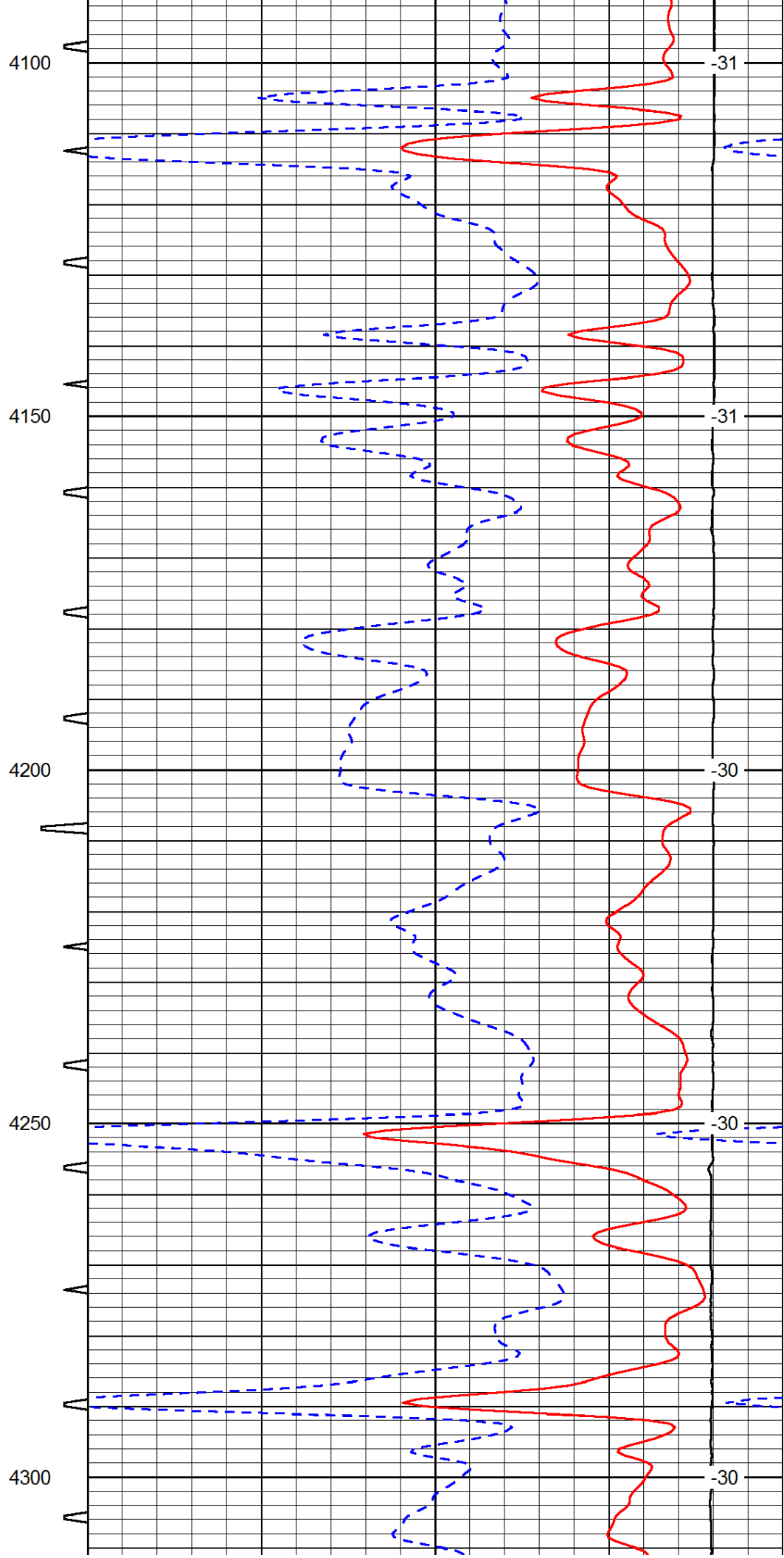
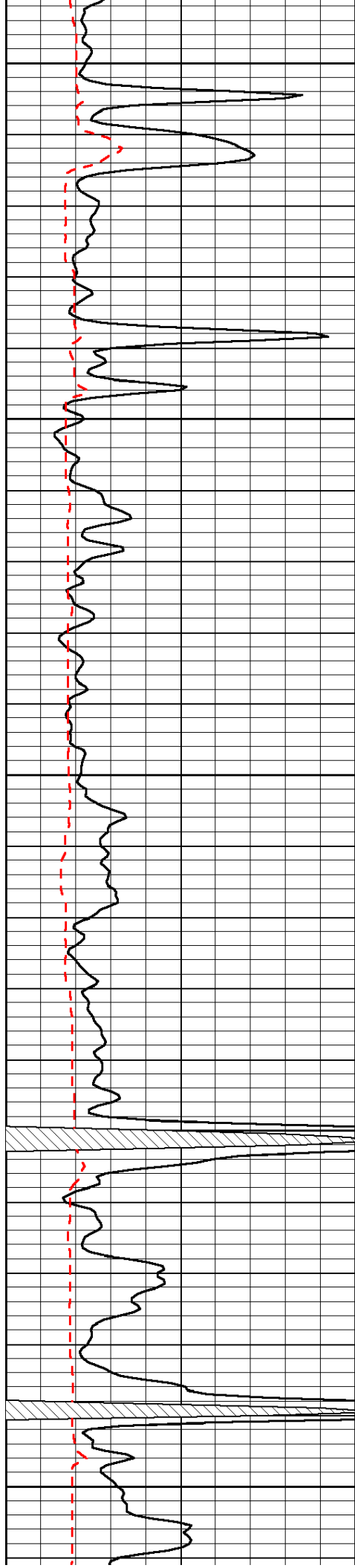


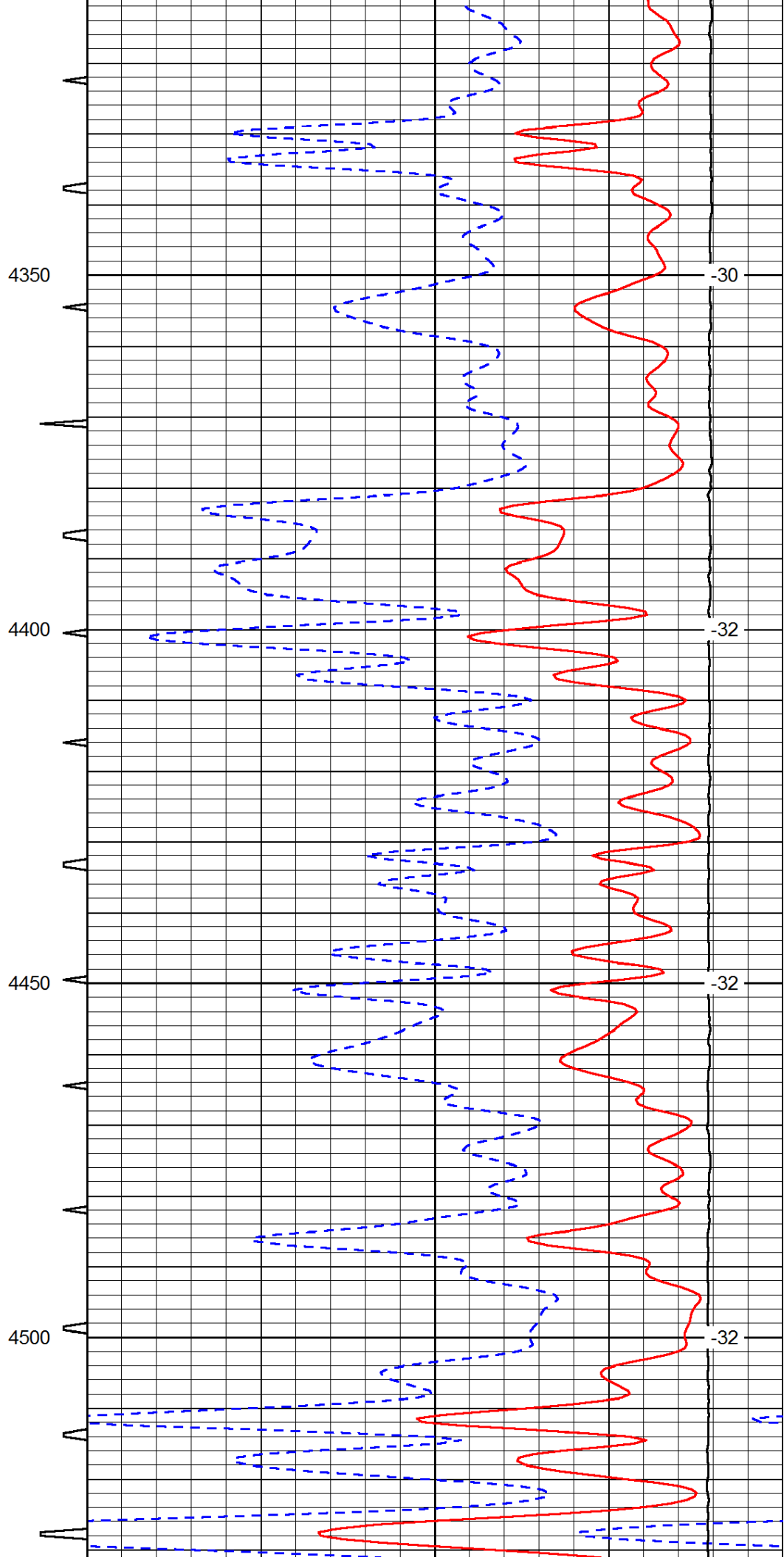
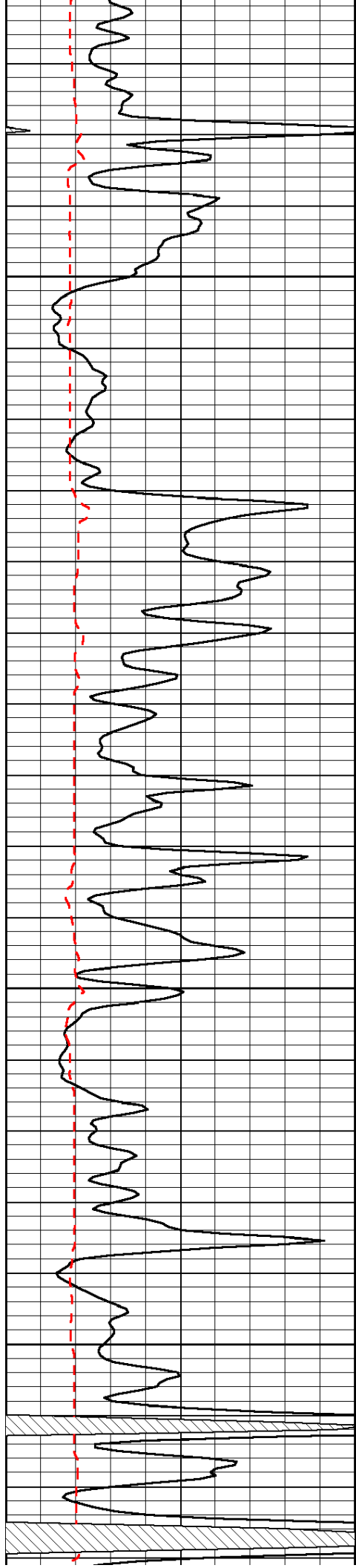


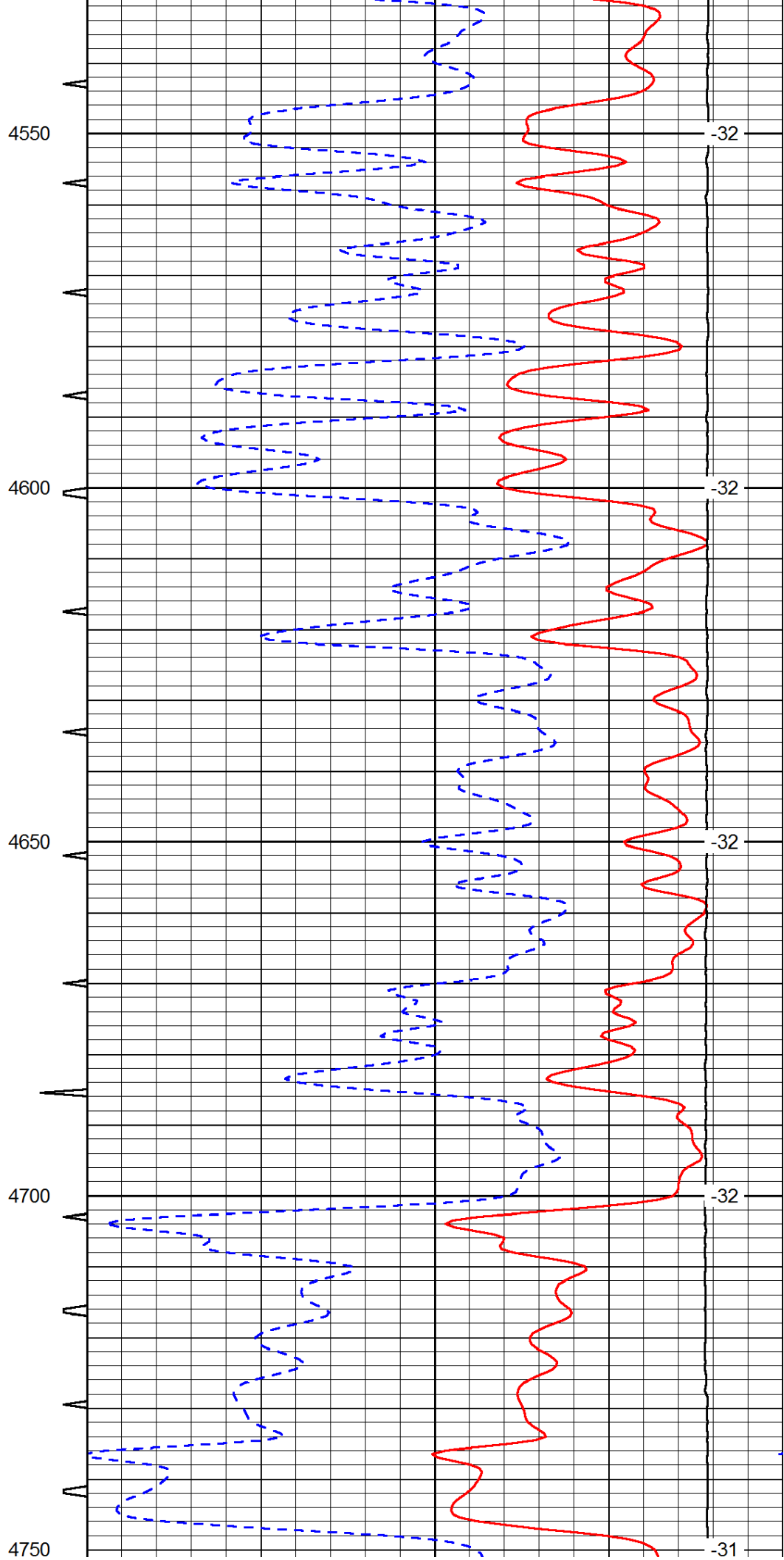
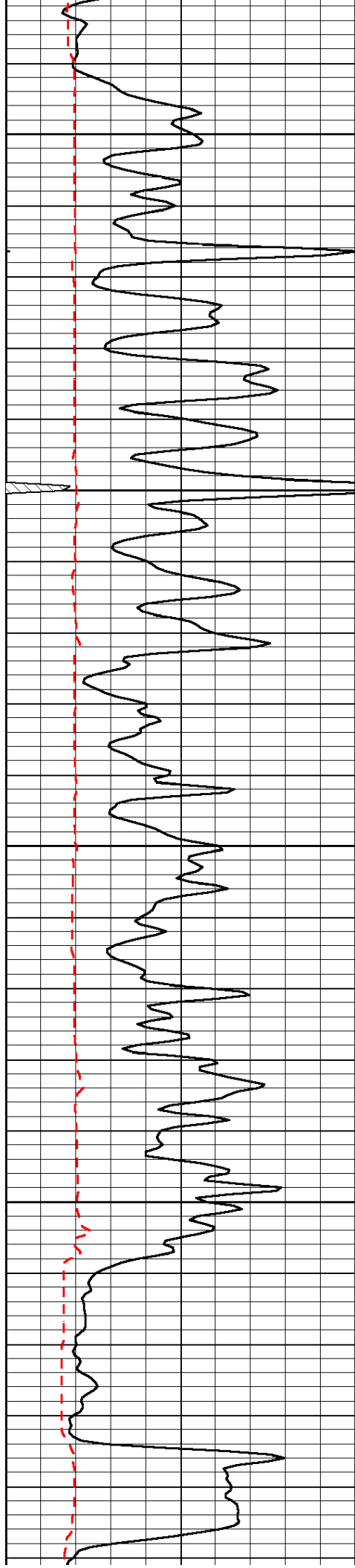


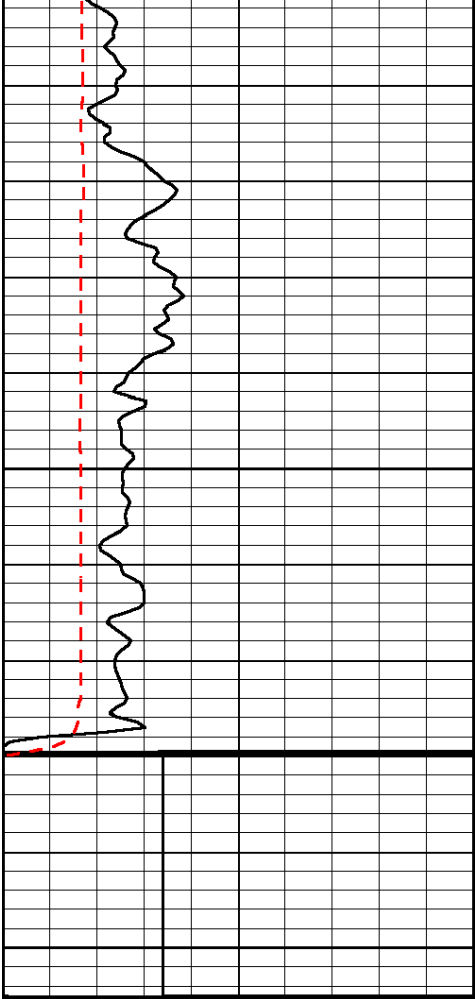




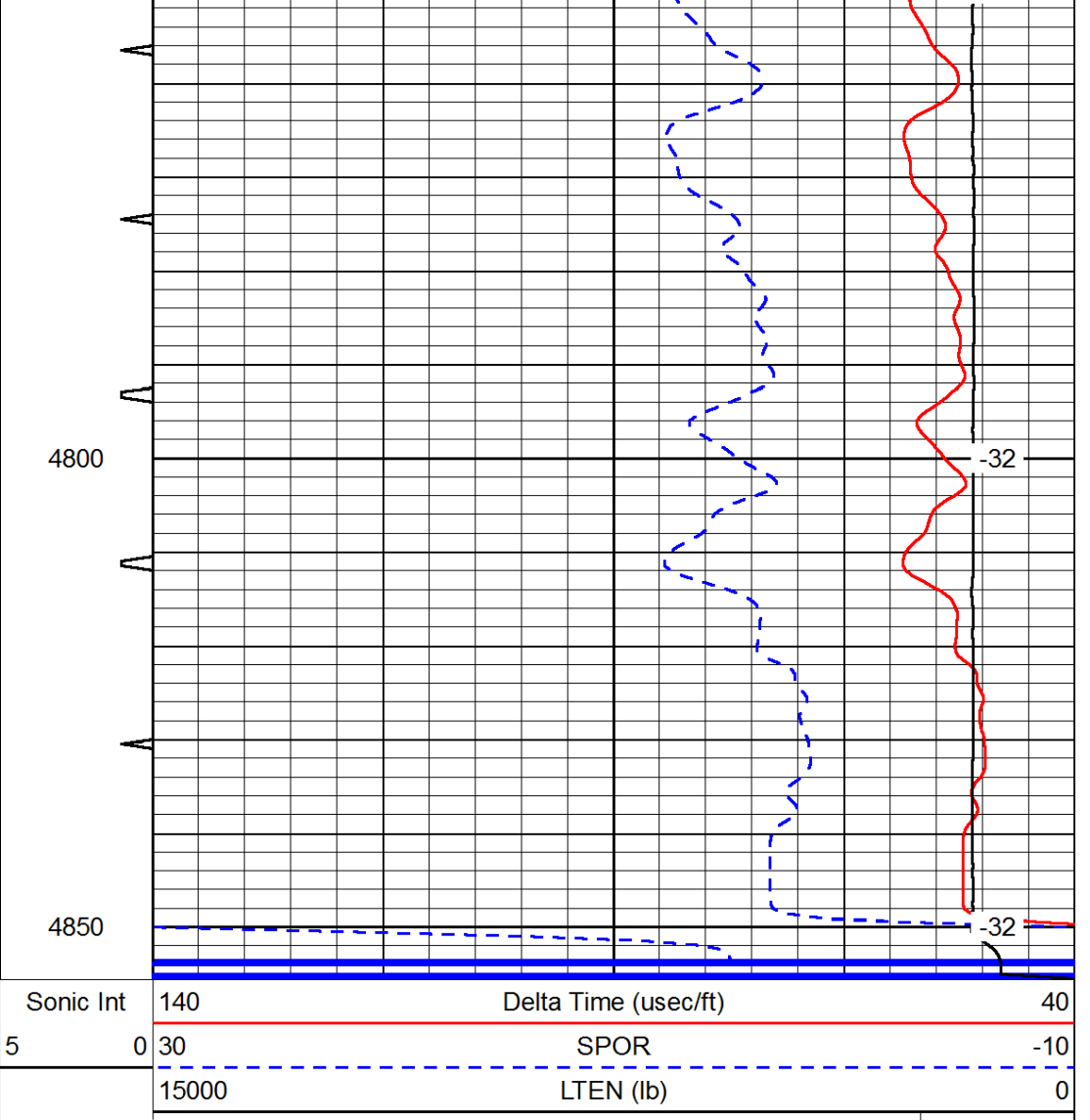








0	Gamma Ray	150
150	Gamma Ray	300
6	Caliper (GAPI)	16



Sonic Int	140	Delta Time (usec/ft)	40
5	0	SPOR	-10
	30	LTEN (lb)	0

LSPD