



Pioneer Energy Services

Borehole Compensated Sonic Log

API No.

15-055-22,274-00-00

Company American Warrior, Inc.

Well Congdon #12-28

Field Congdon

County Finney

State Kansas

Location 1380' FSL & 2566' FEL

Sec: 28

Twp: 23S

Rge: 32W

Other Services
CNL/CDL
MEL/DIL

Permanent Datum Ground Level Elevation 2840
Log Measured From Kelly Bushing 12 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Elevation
K.B. 2852
D.F.
G.L. 2840

Date 2/4/2014

Run Number Two

Type Log BHC Sonic

Depth Driller 4900

Depth Logger 4904

Bottom Logged Interval 4893

Top Logged Interval 1700

Type Fluid In Hole Chemical

Salinity, PPM CL 2,700

Density 9.4

Level Full

Max. Rec. Temp. F 125

Operating Rig Time 5 Hours

Equipment -- Location 17 Days

Recorded By C. Desaire

Witnessed By Kevin Timson

Borehole Record

Casing Record

Run No.	Bit	From	To	Size	Wgt.	From	To
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1	12.25	00	1703	8.625	24#	00	1703
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2	7.875	1703	4900				
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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.

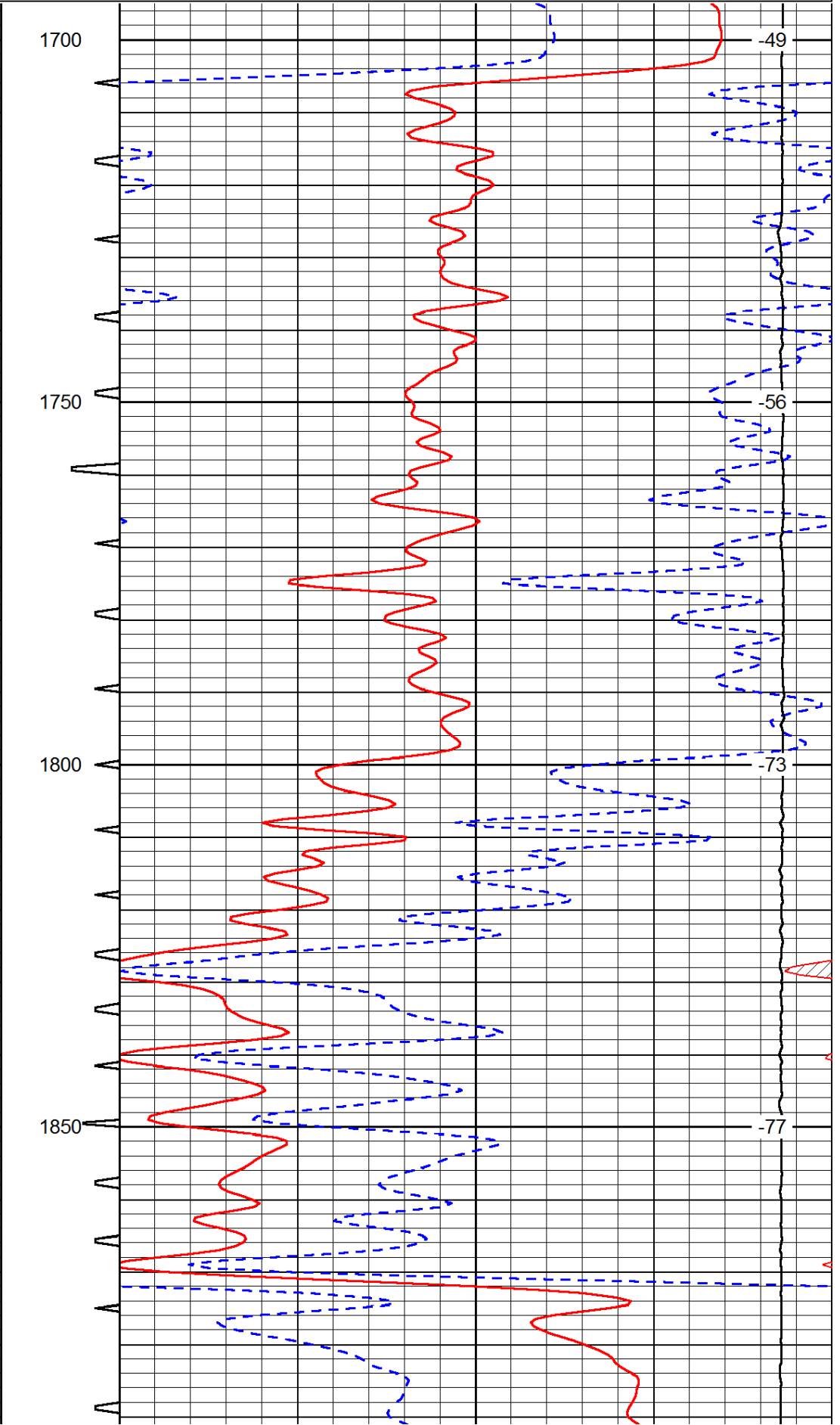
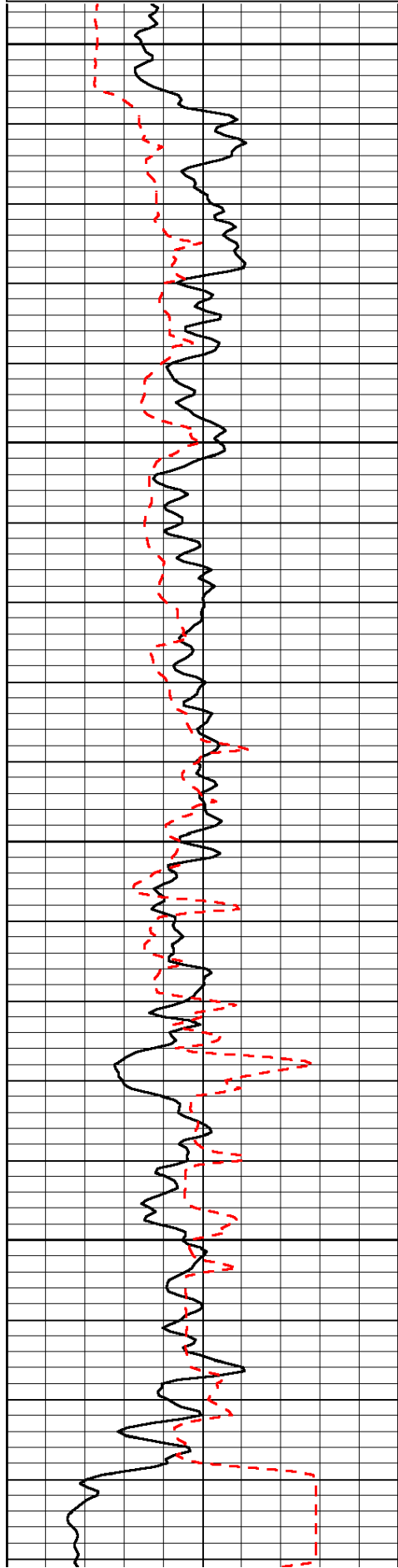
Comments

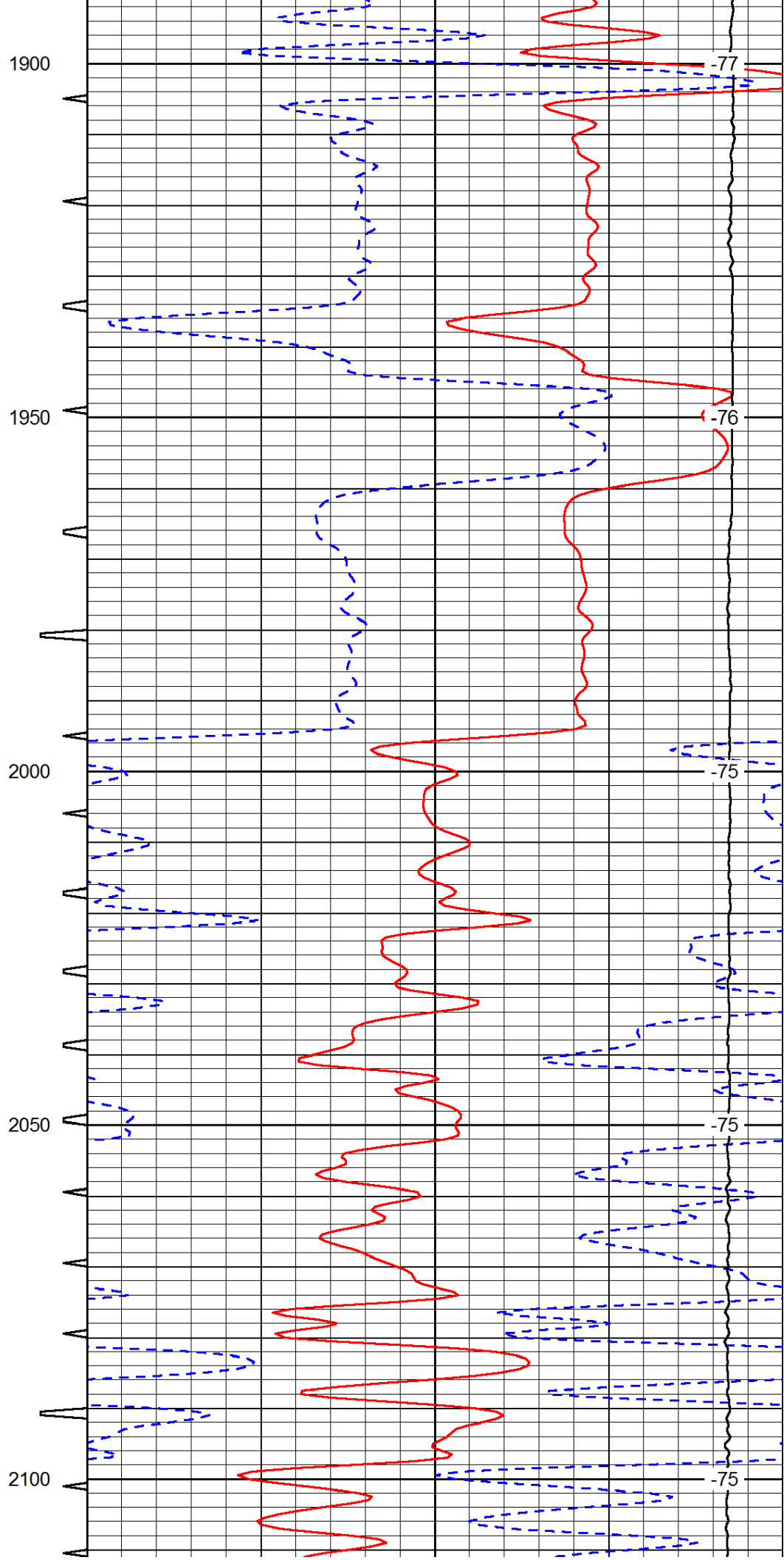
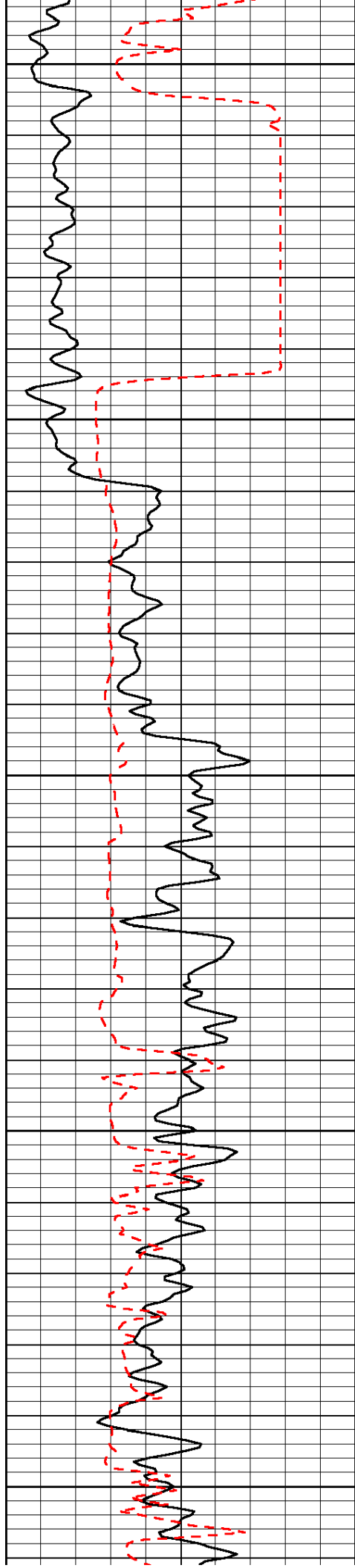
Thank you for using Pioneer Energy Services
www.pioneerres.com
785 625 3858

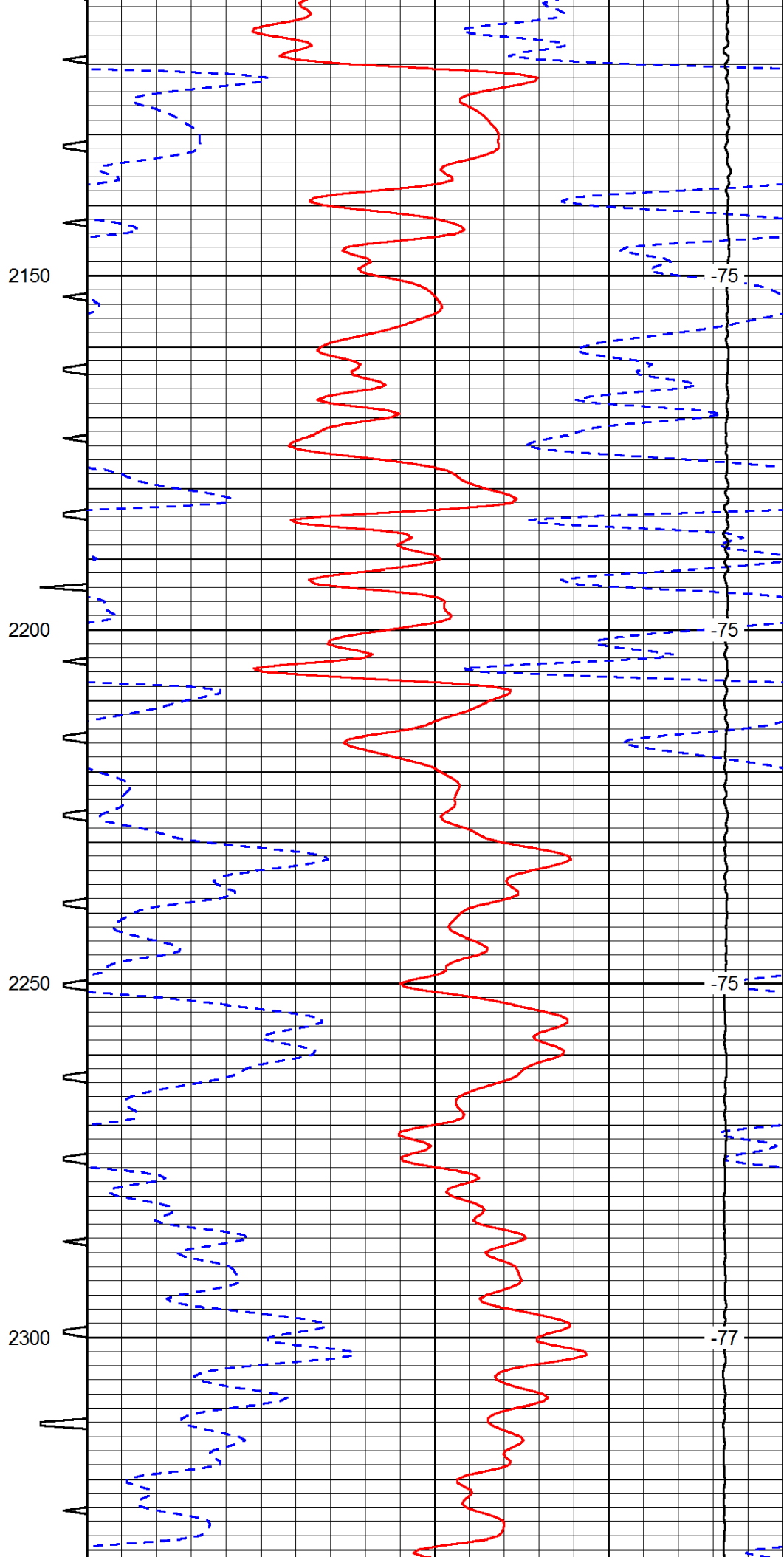
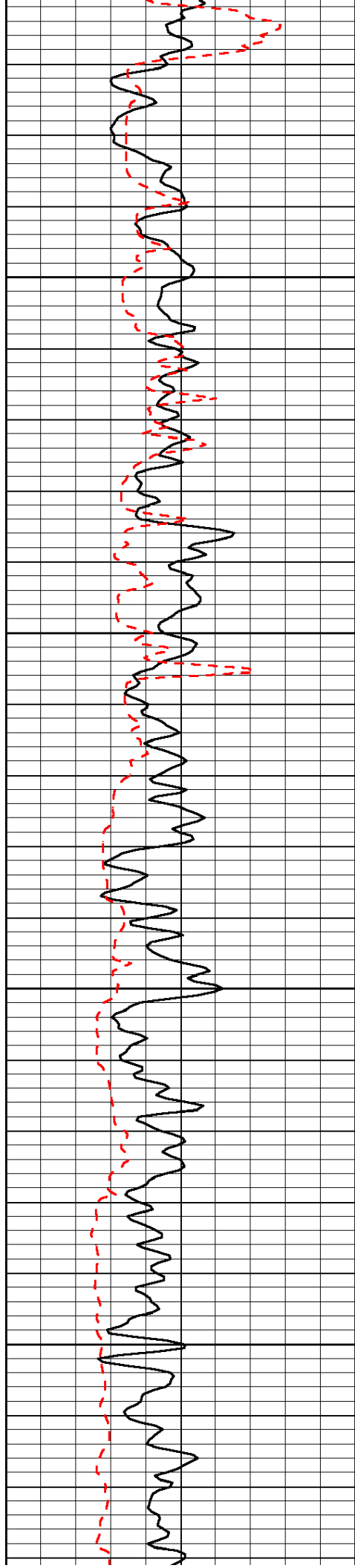
Garden City KS, E edge, N on Mary Rd to Jenny Barker Rd,
N to Rodkey Rd, 1/2 W, N Into

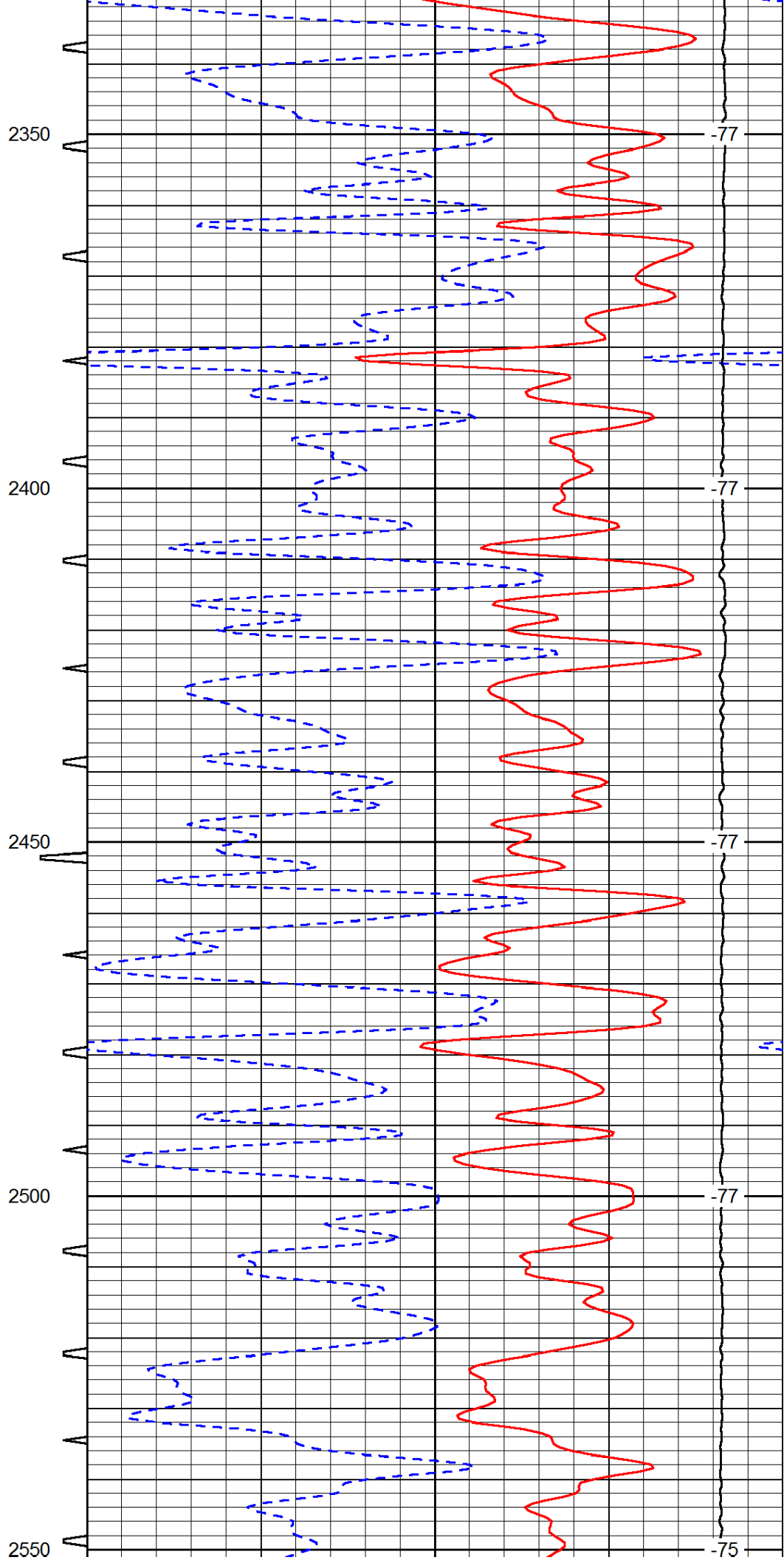
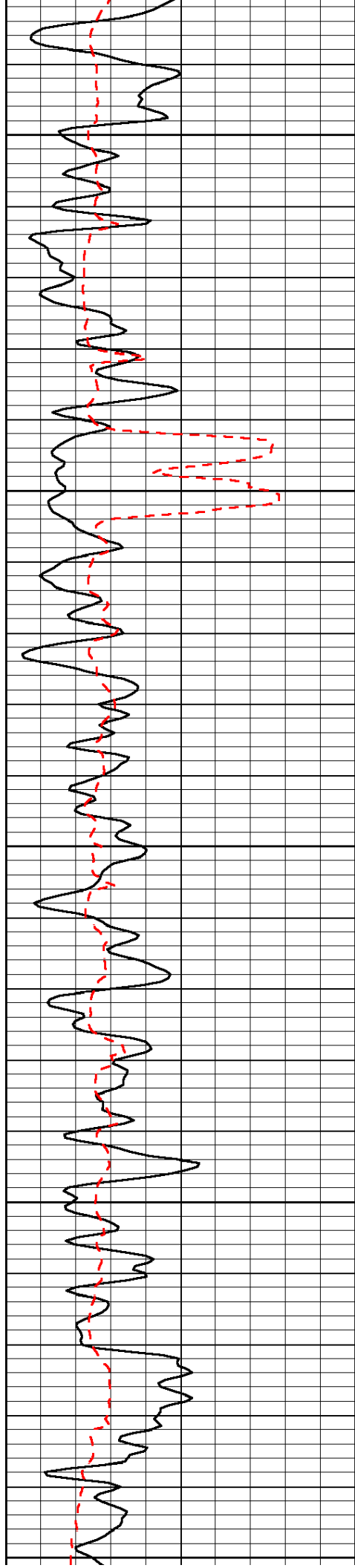
Database File: c:\warrior\data\amwar_congdon #12-28\awhd.db
Dataset Pathname: dil\awstk
Presentation Format: sonic
Dataset Creation: Tue Feb 04 17:30:12 2014
Charted by: Depth in Feet scaled 1:240

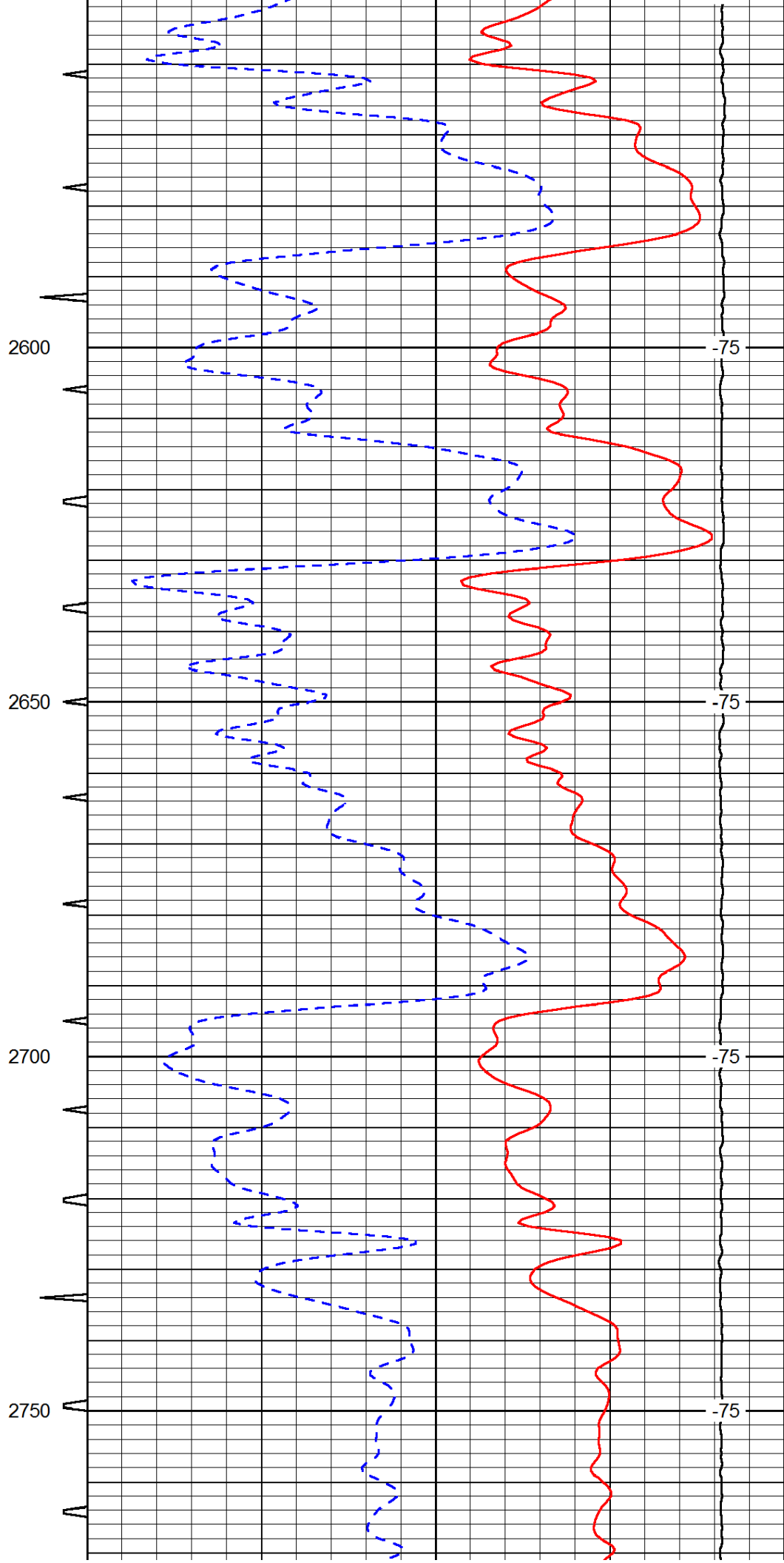
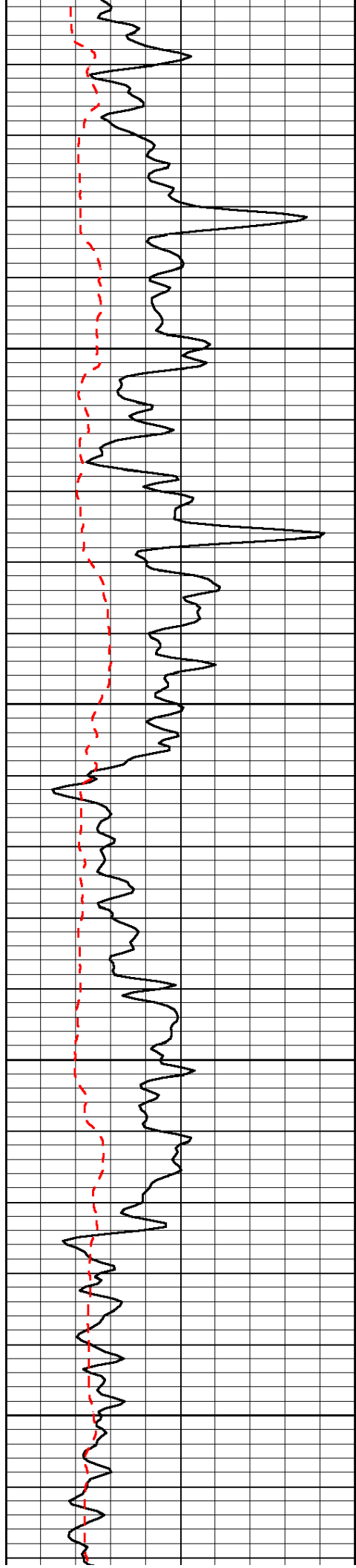
Charted by:		Depth in Feet scaled 1:210				
0	Gamma Ray	150	Sonic Int	140	Delta Time (usec/ft)	40
150	Gamma Ray	300		30	SPOR	-10
6	Caliper	16		15000	LTEN (lb)	0
					LSPD	

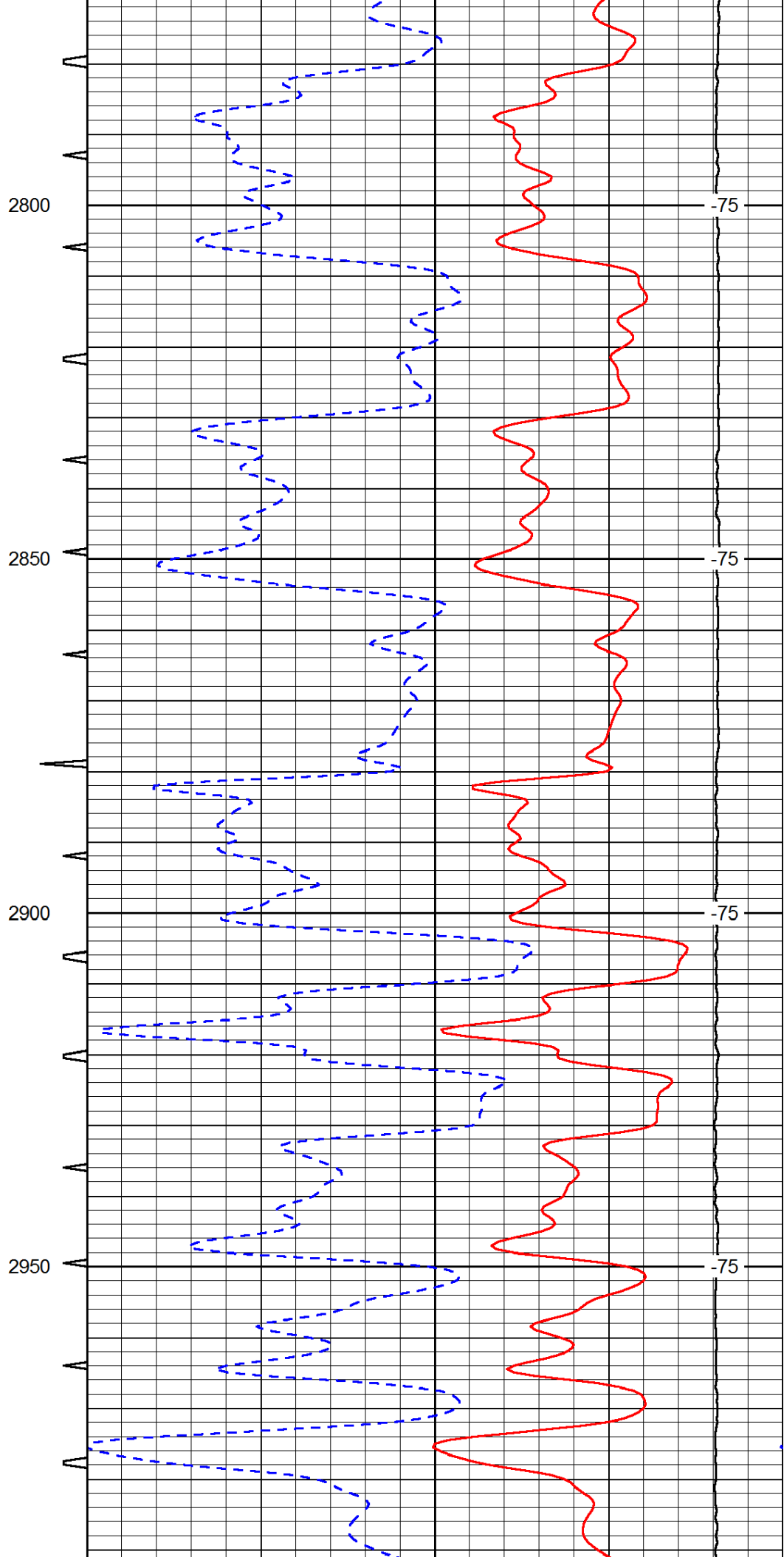
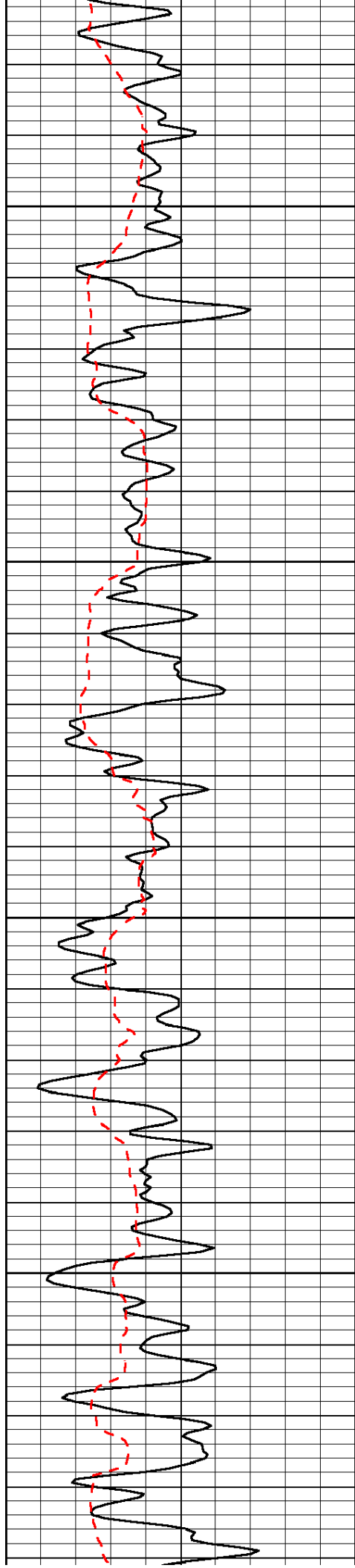


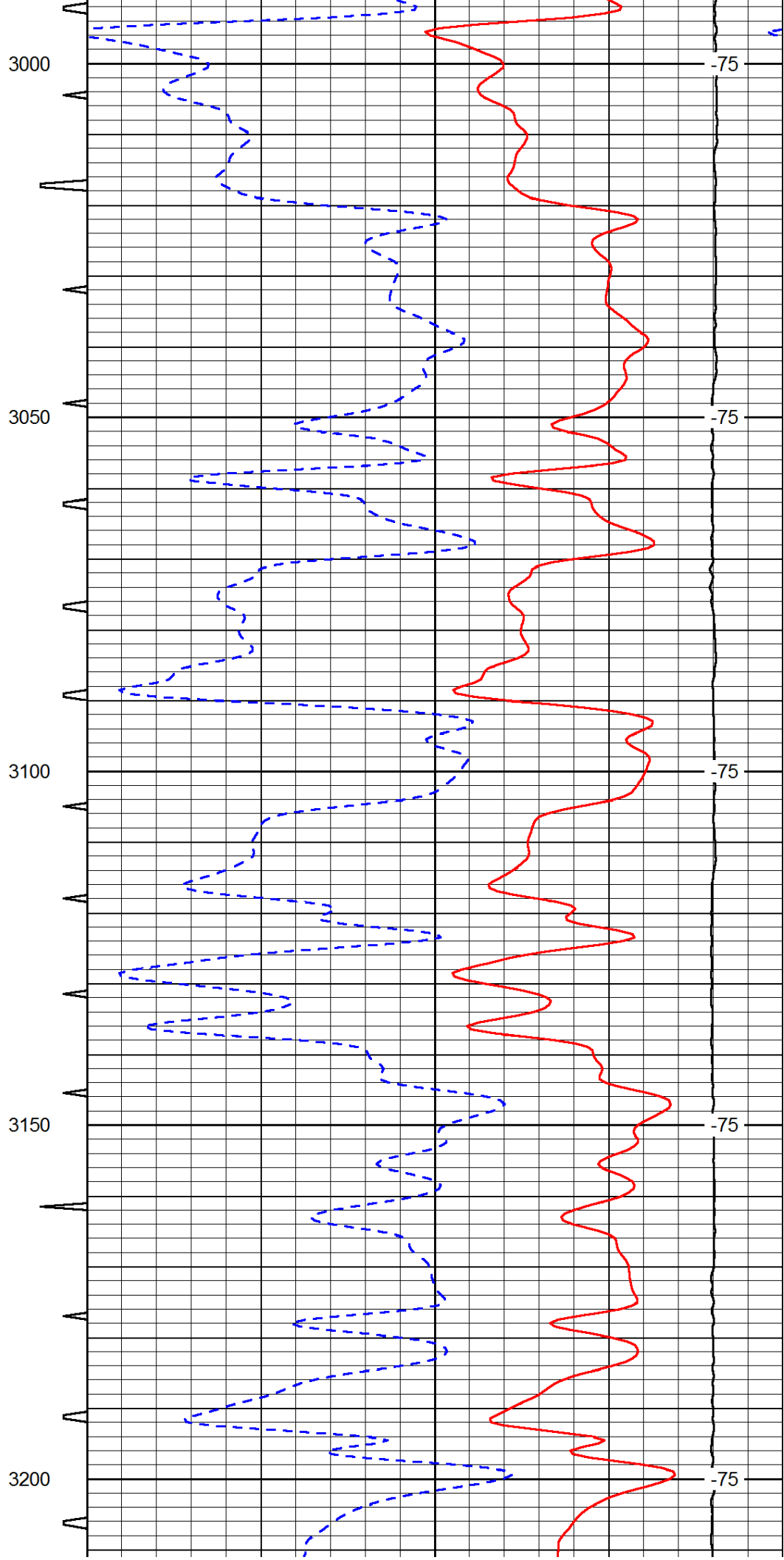
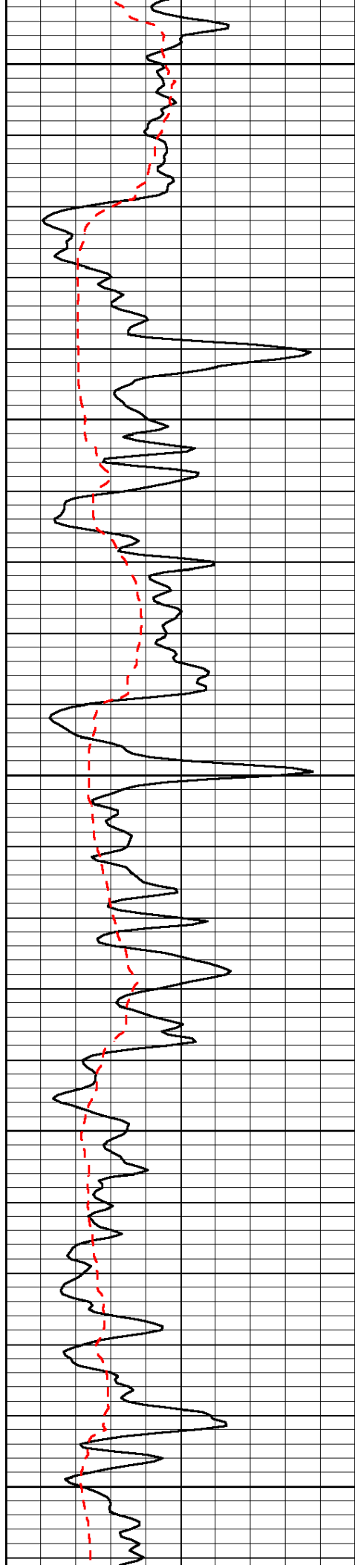


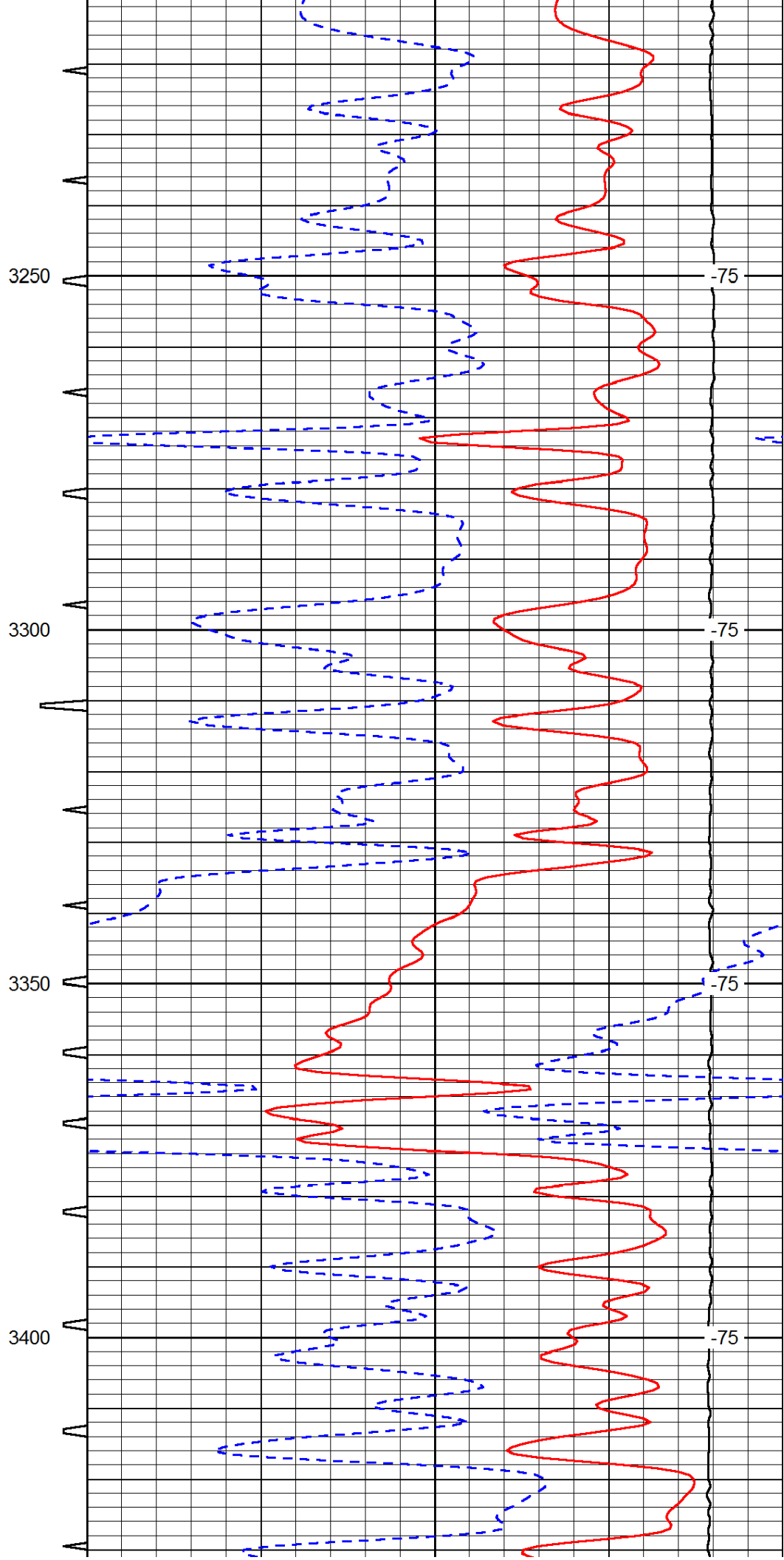
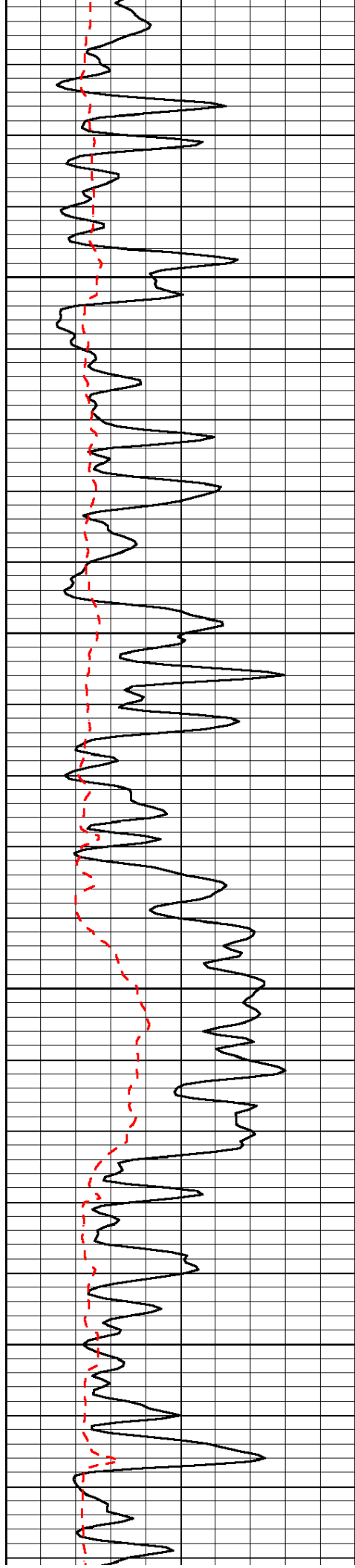


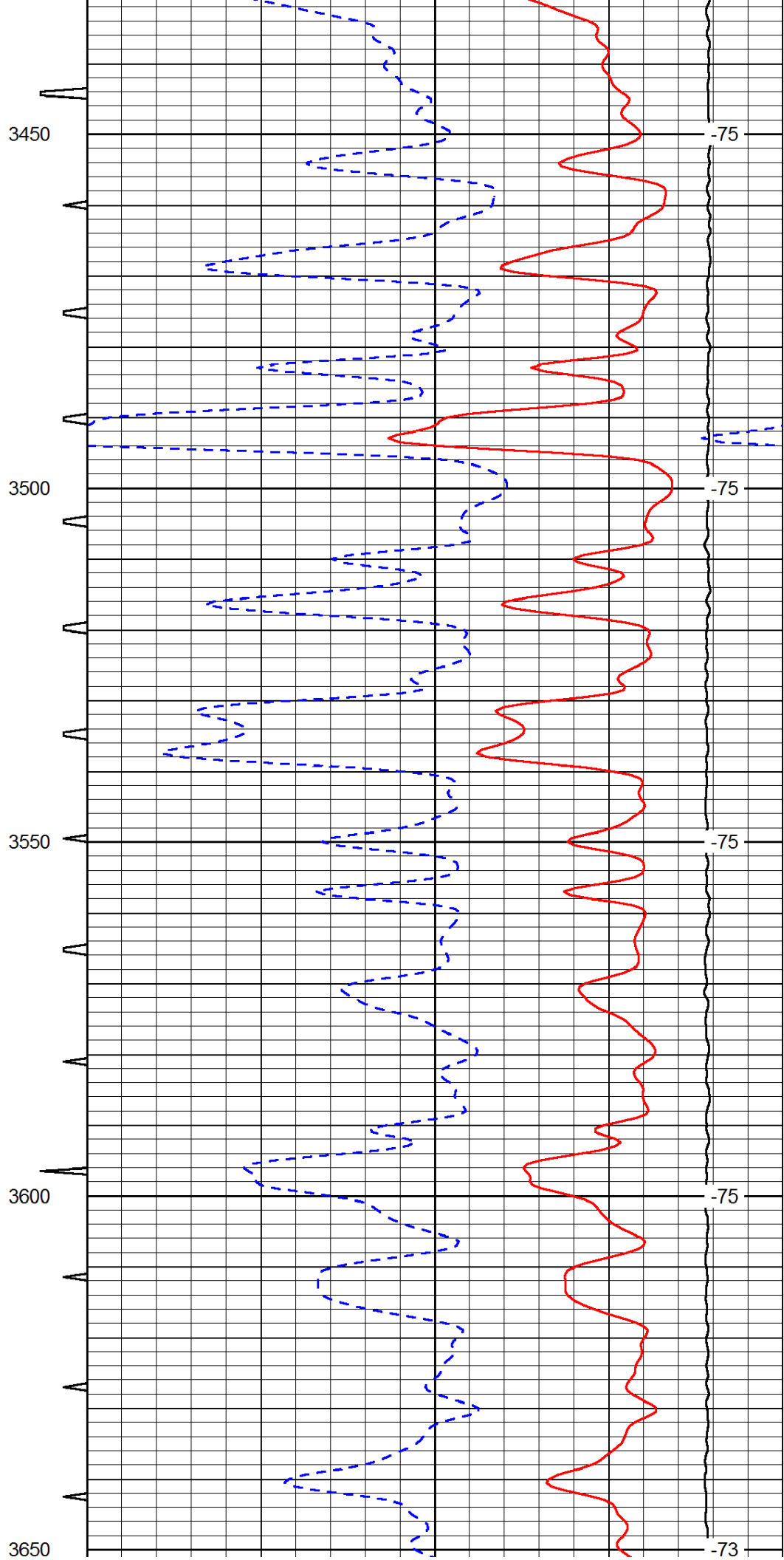
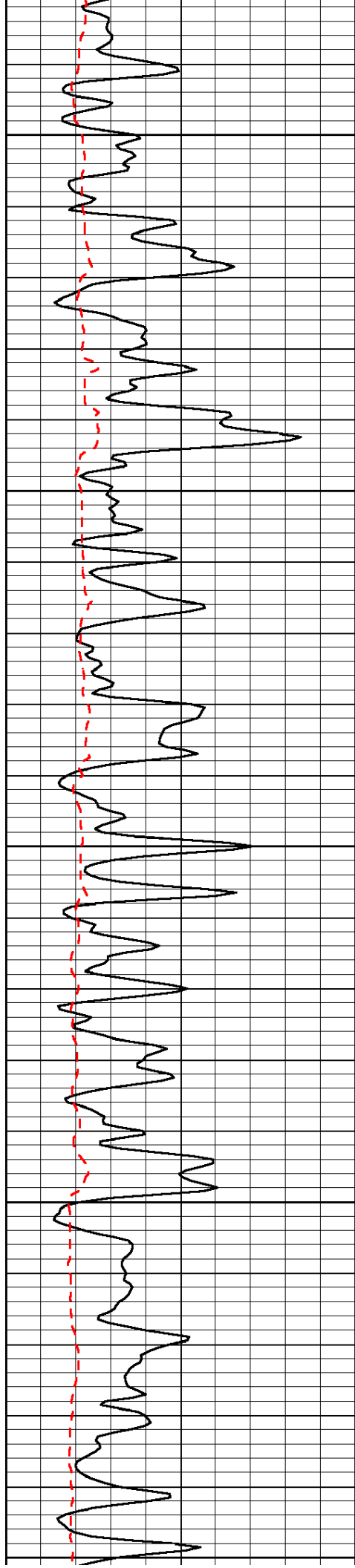


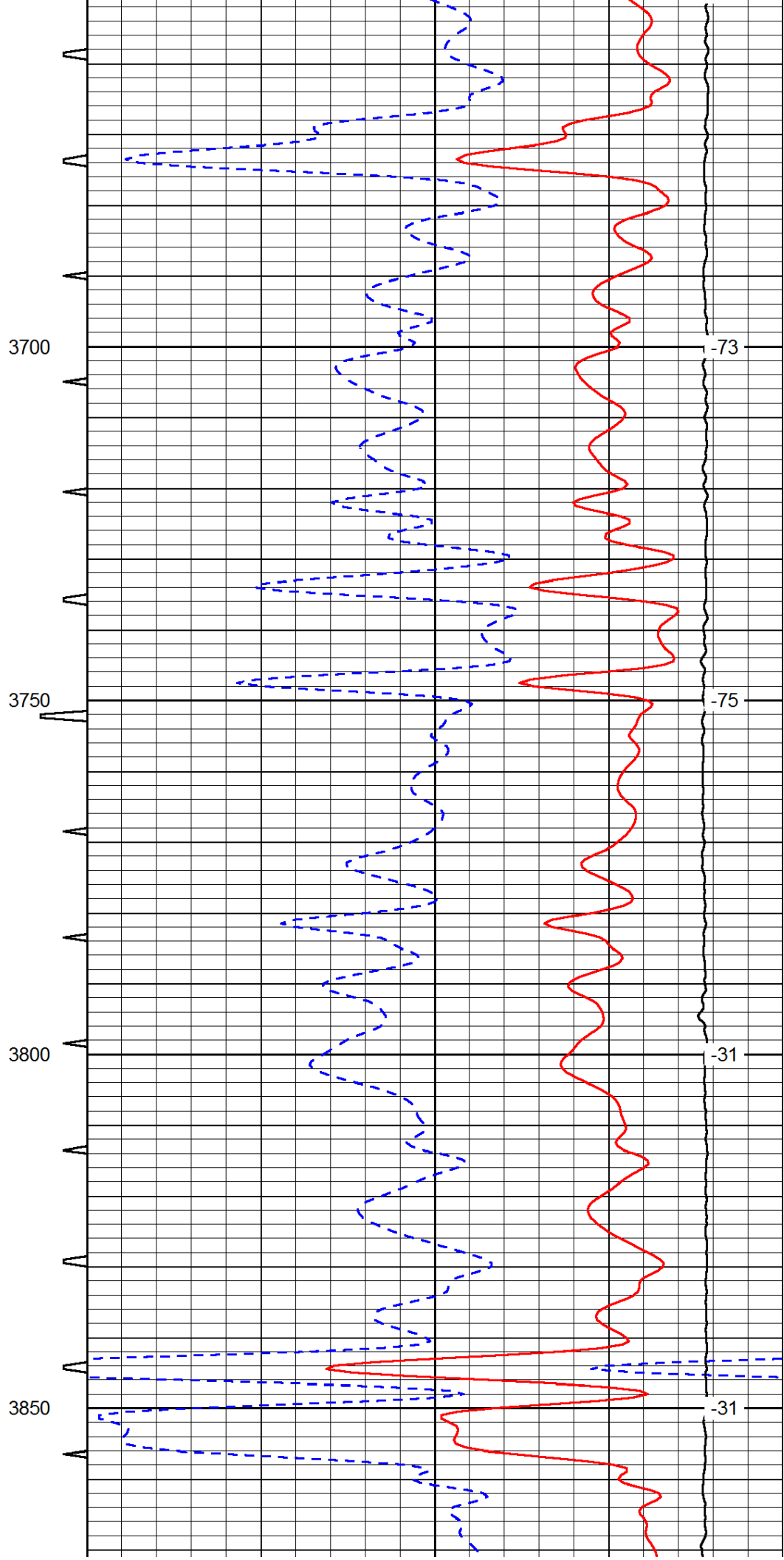
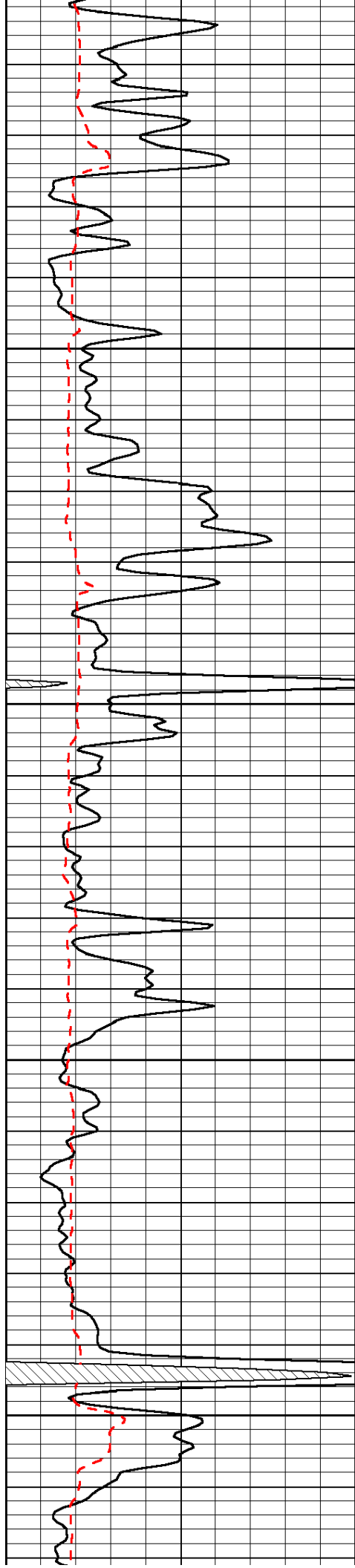


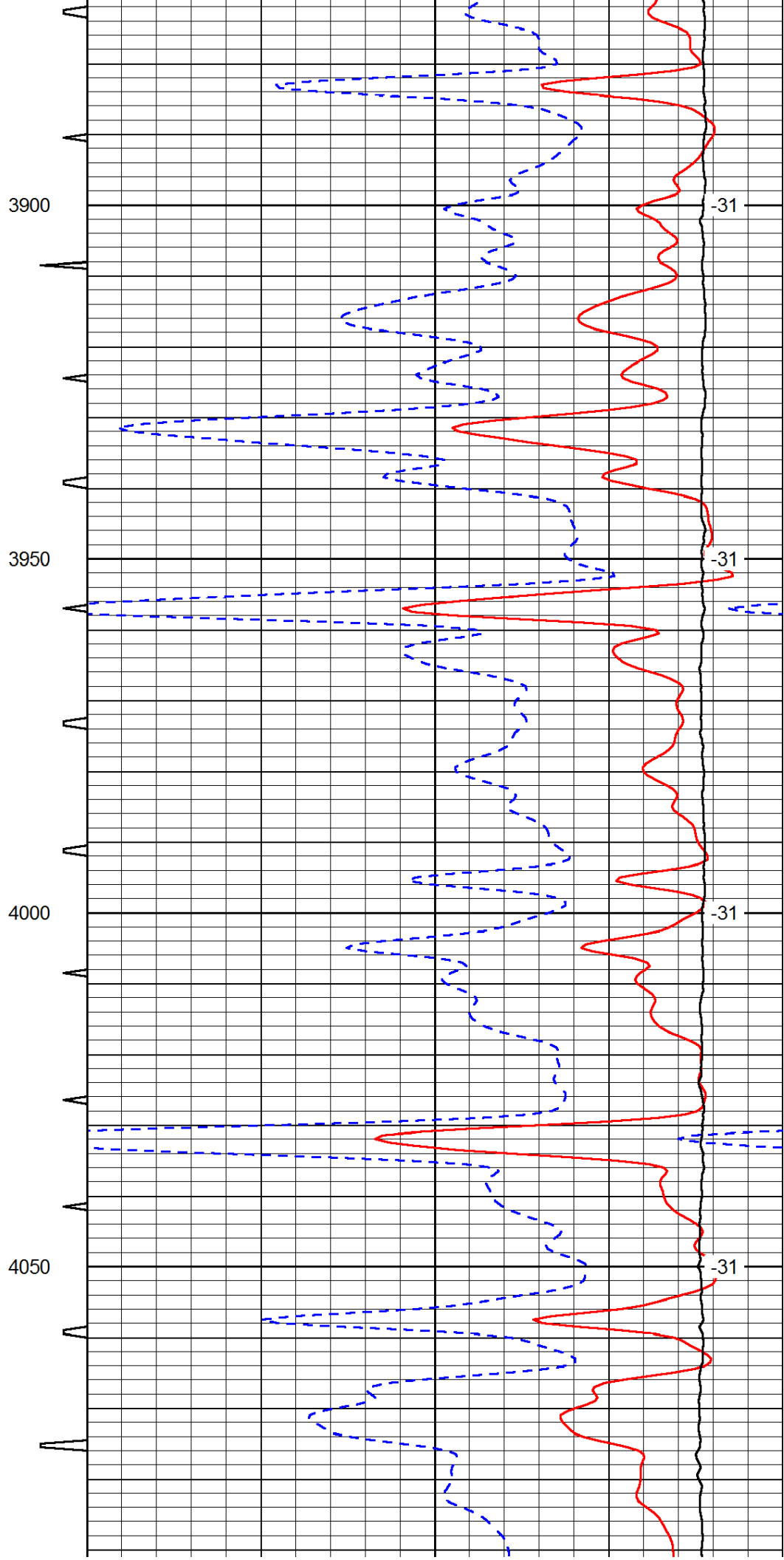
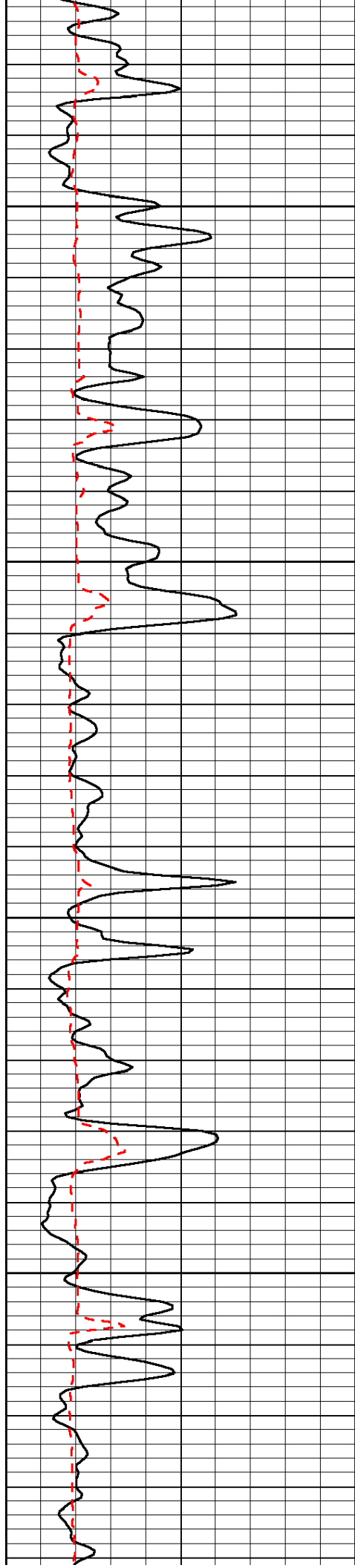


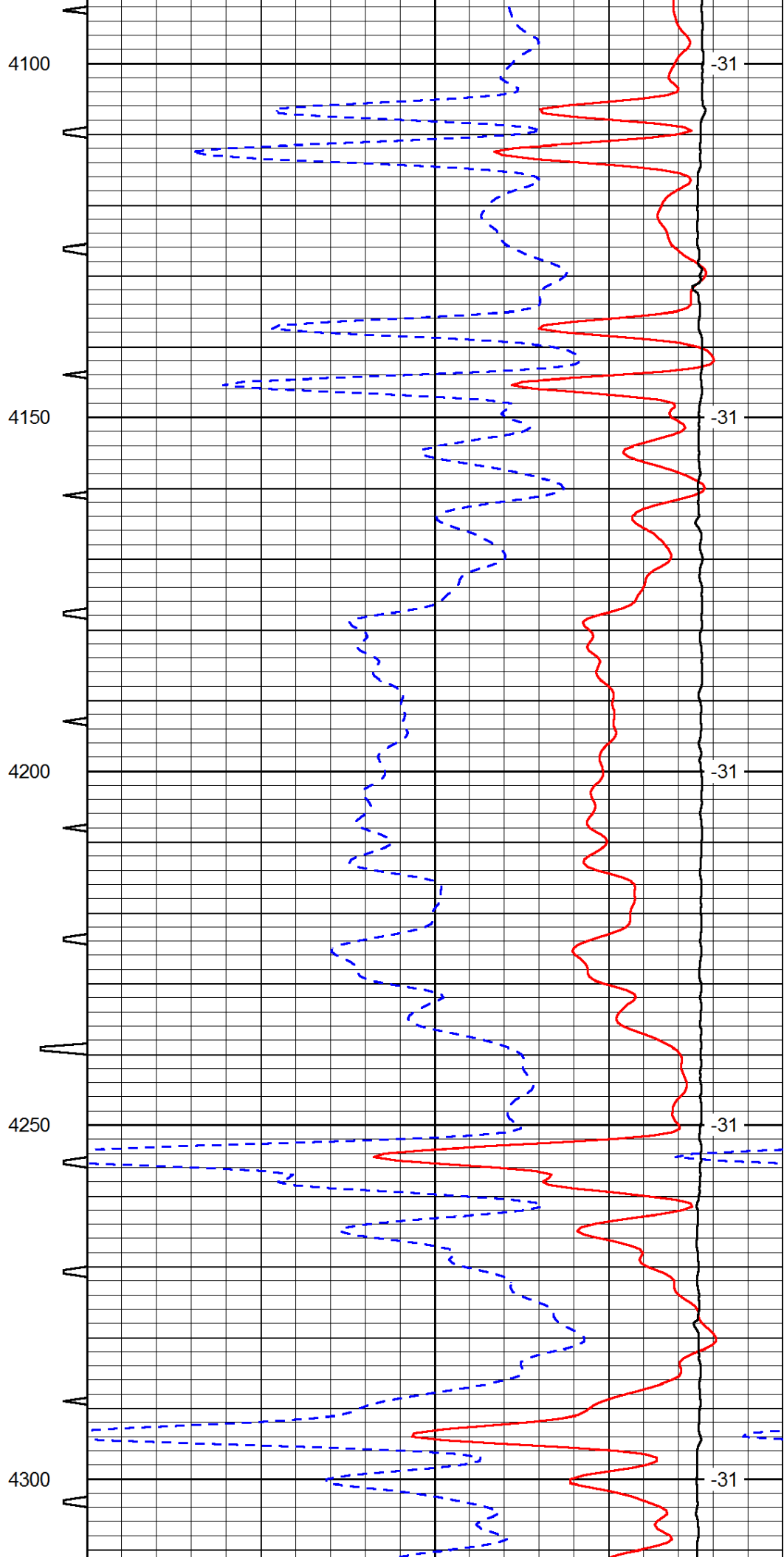
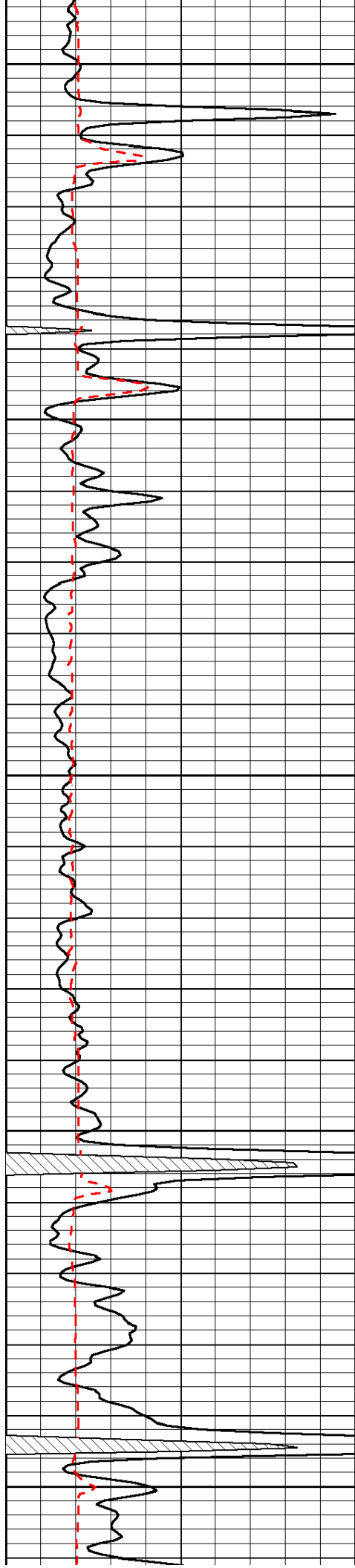


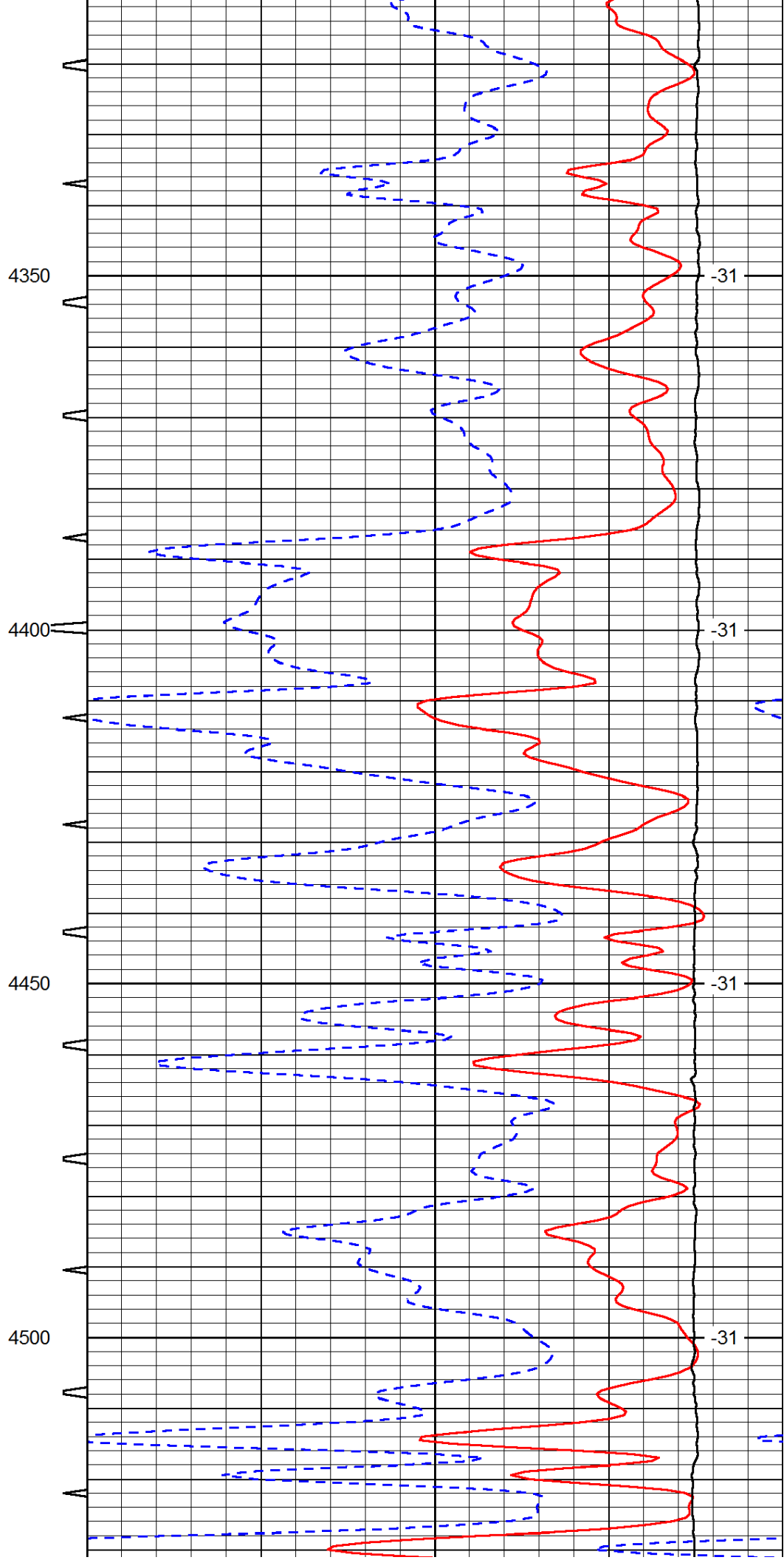
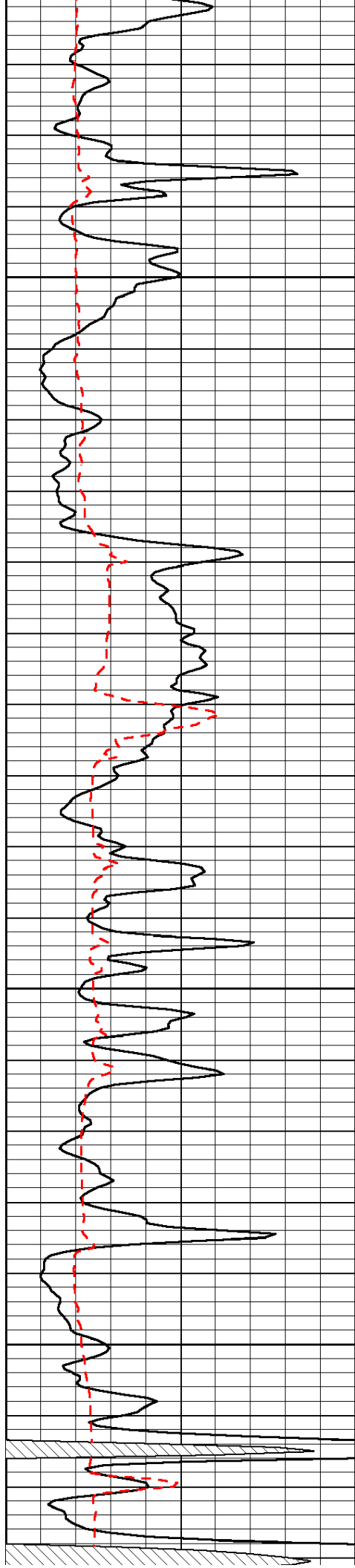


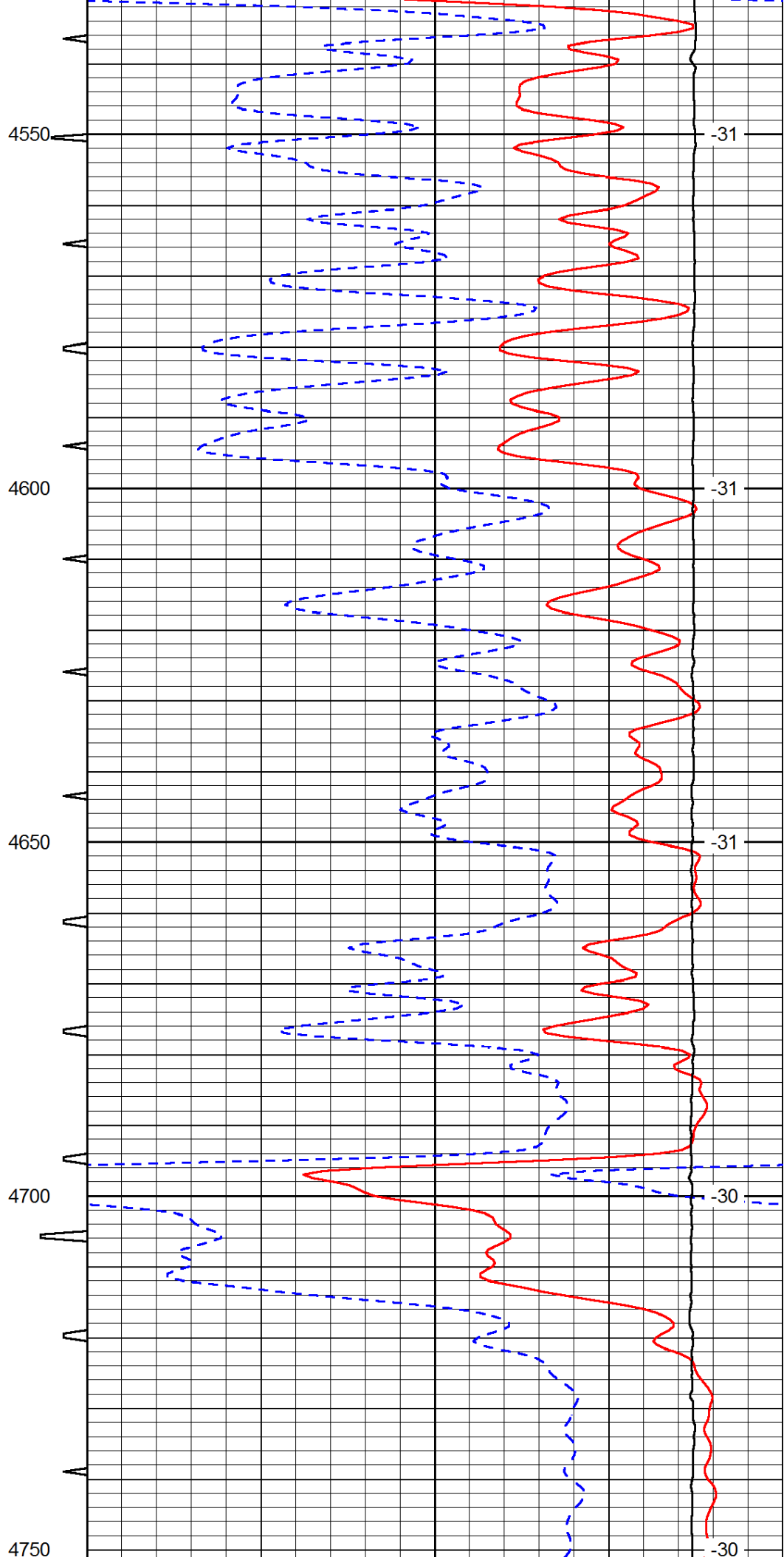
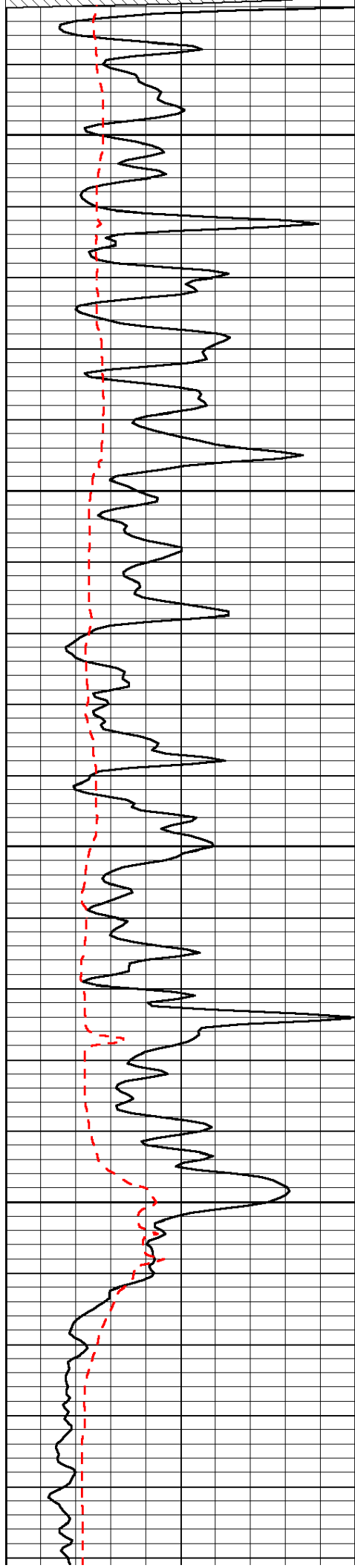


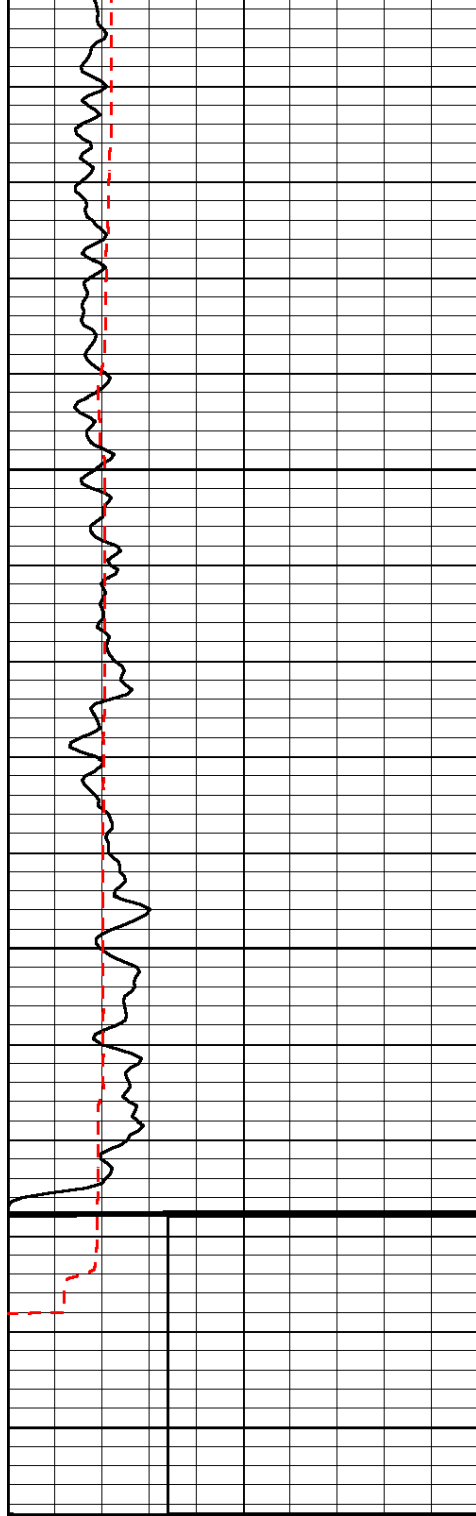




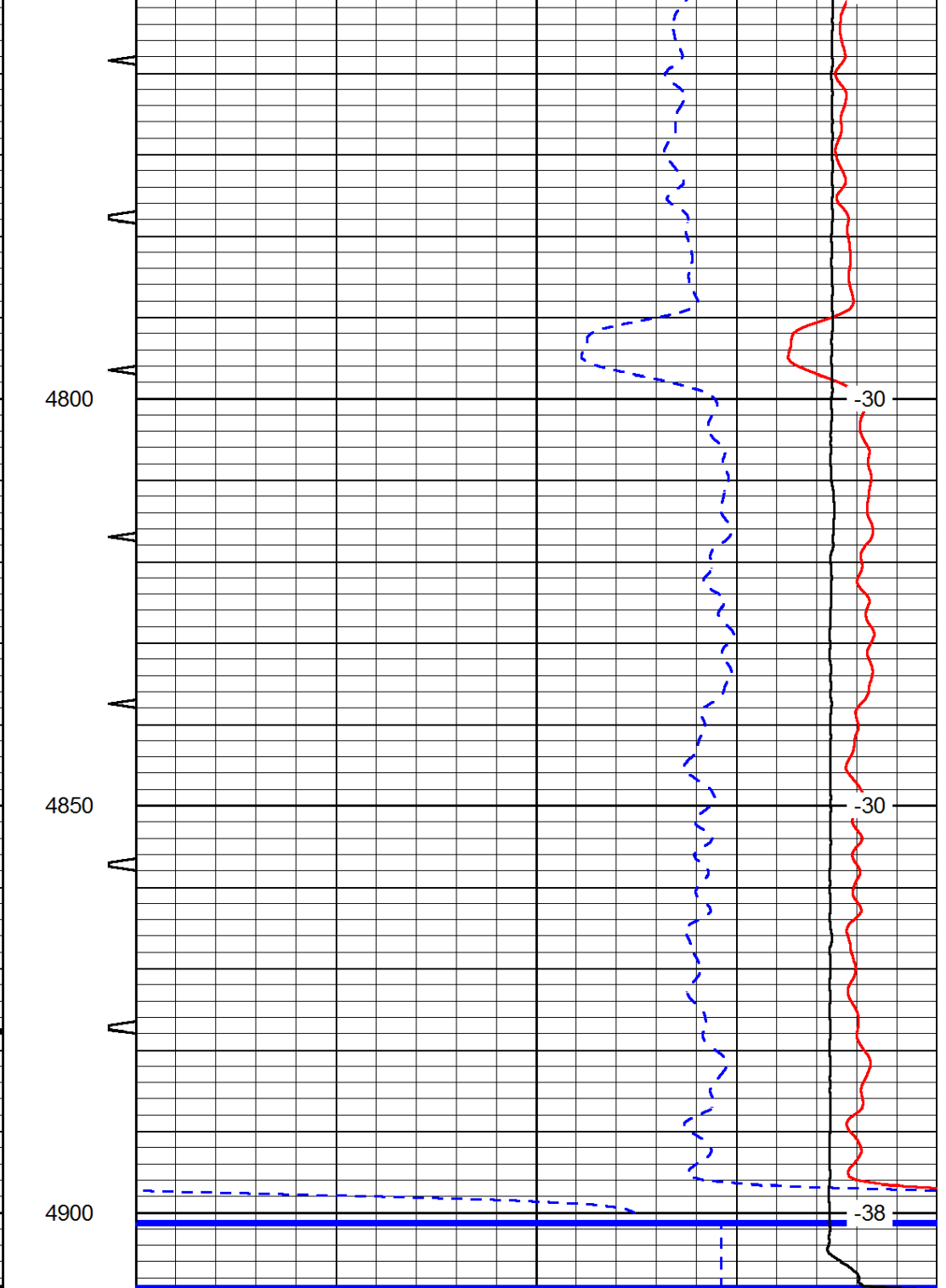








0	Gamma Ray	150
150	Gamma Ray	300
6	Caliper	16



Sonic Int	140	Delta Time (usec/ft)	40
5	0	SPOR	-10
	15000	LTEN (lb)	0

LSPD