



PIONEER

Pioneer Energy Services

Borehole Compensated Sonic Log

API No.

15-065-24,074-00-00

Company **Chisholm Partners II, LLC.**

Well **Nighswonger #9-1**

Field

County **Graham**

State **Kansas**

Location

2310' FSL & 990' FWL

Sec: **9**

Twp: **7S**

Rge: **23W**

Other Services
CNL/CDL
MEL/DIL

Permanent Datum Ground Level Elevation **2442**

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

Drilling Measured From Kelly Bushing

Elevation
K.B. **2450**
D.F.
G.L. **2442**

Date **11/26/2014**

Run Number **Two**

Type Log **BHC Sonic**

Depth Driller **4000**

Depth Logger **3999**

Bottom Logged Interval **3988**

Top Logged Interval **250**

Type Fluid In Hole **Chemical**

Salinity, PPM CL **1500**

Density **9.4**

Level **Full**

Max. Rec. Temp. F **116**

Operating Rig Time **5 Hours**

Equipment -- Location **108 Hays**

Recorded By **D. Fischer**

Witnessed By **Jeff lawler**

Borehole Record

Casing Record

Run No	Bit	From	To	Size	Wgt.	From	To
1	12.25	00	262	8.625	24#	00	262
2	7.875	262	4000				

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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.

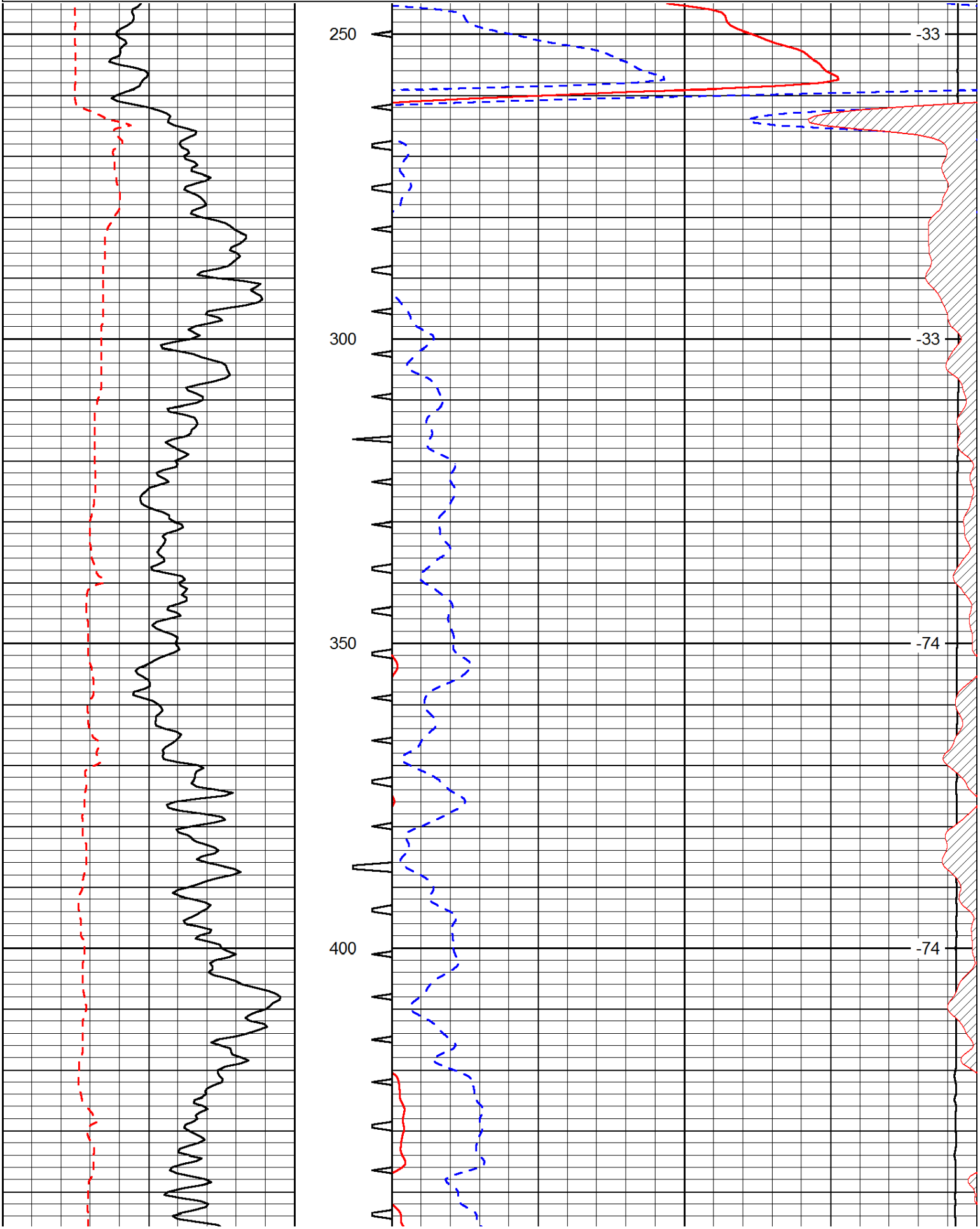
Comments

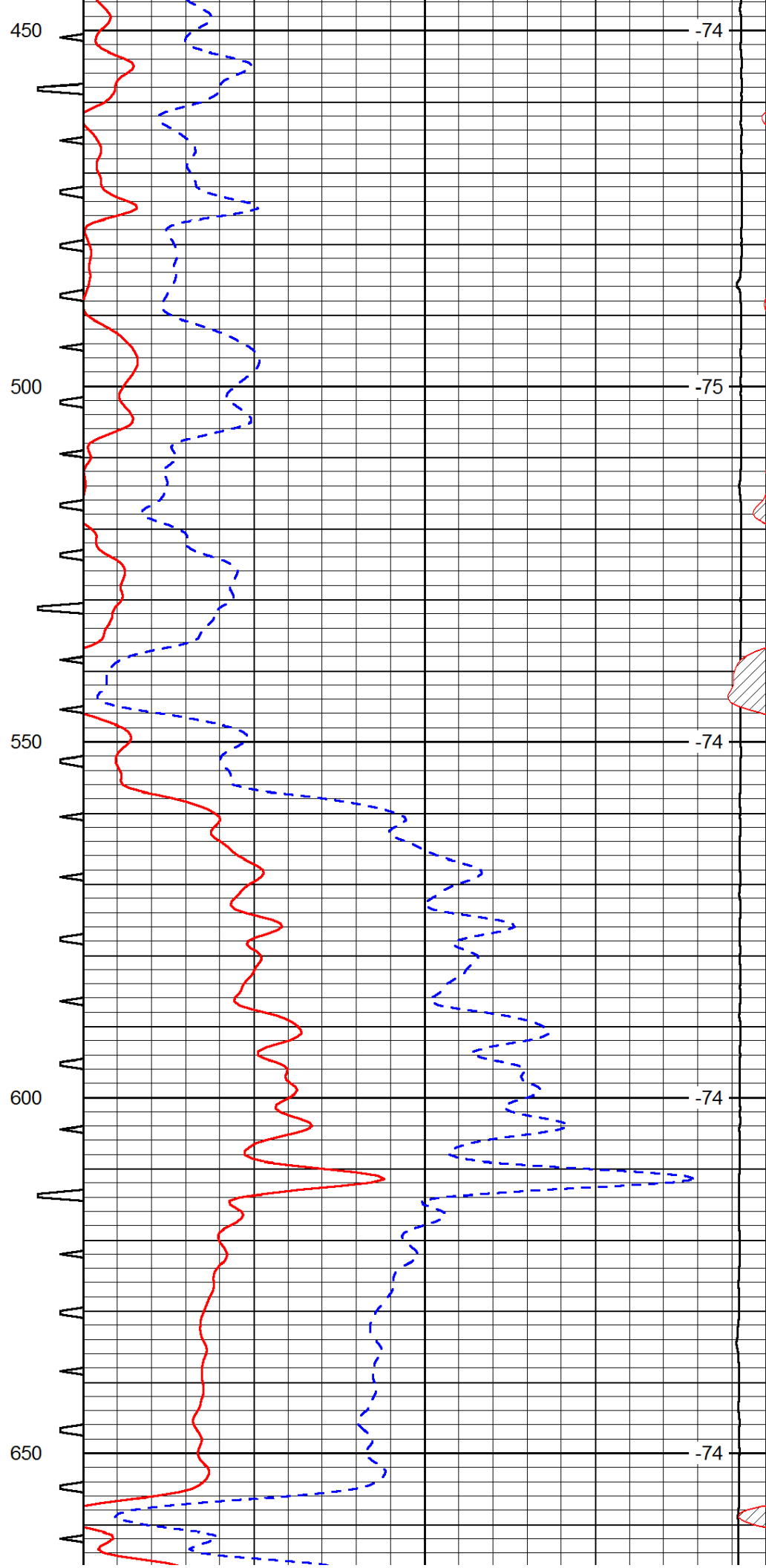
Thank you for using Pioneer Energy Services
www.pioneerres.com
785 625 3858

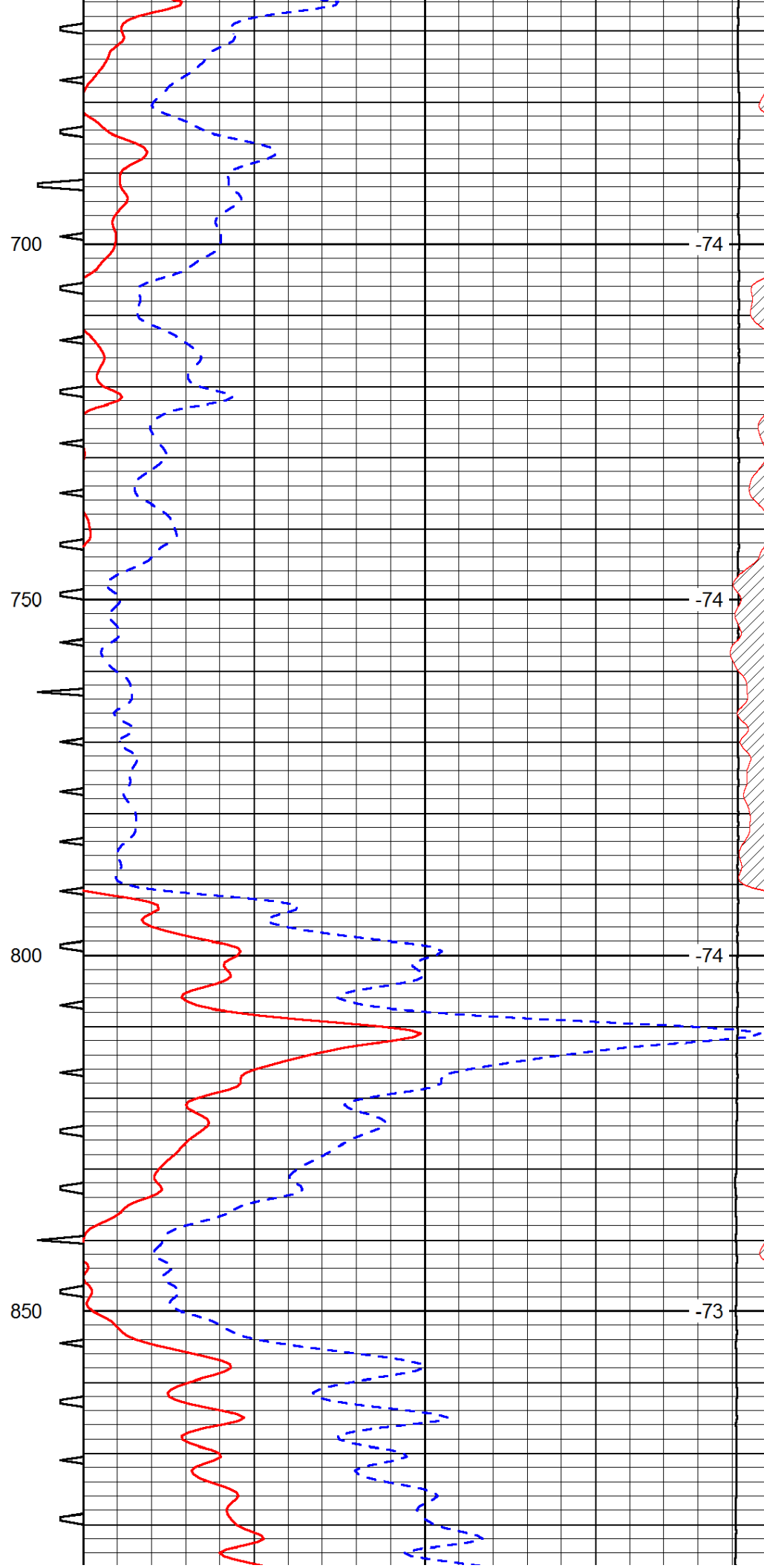
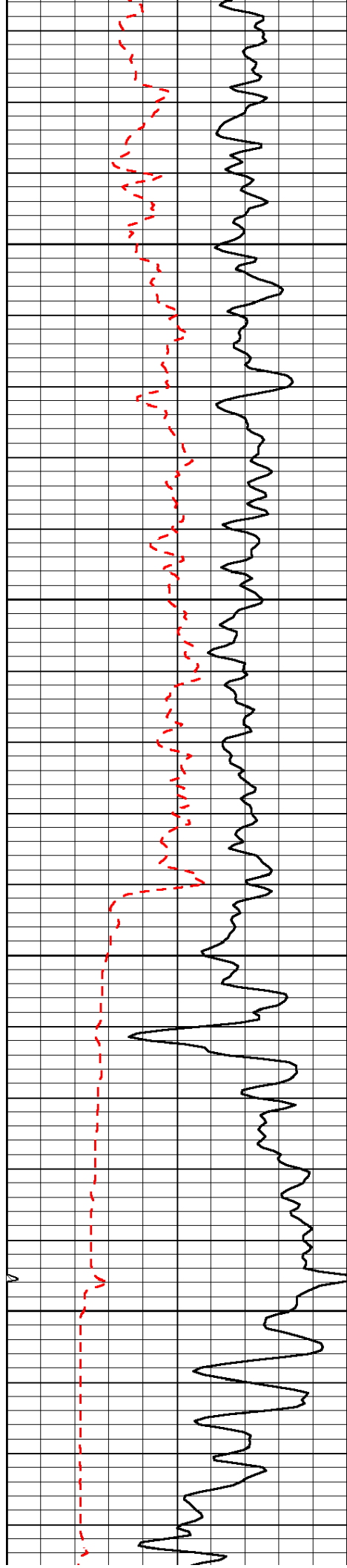
Hill City Ks., West to 240 Rd., 6.5 North, East Into.

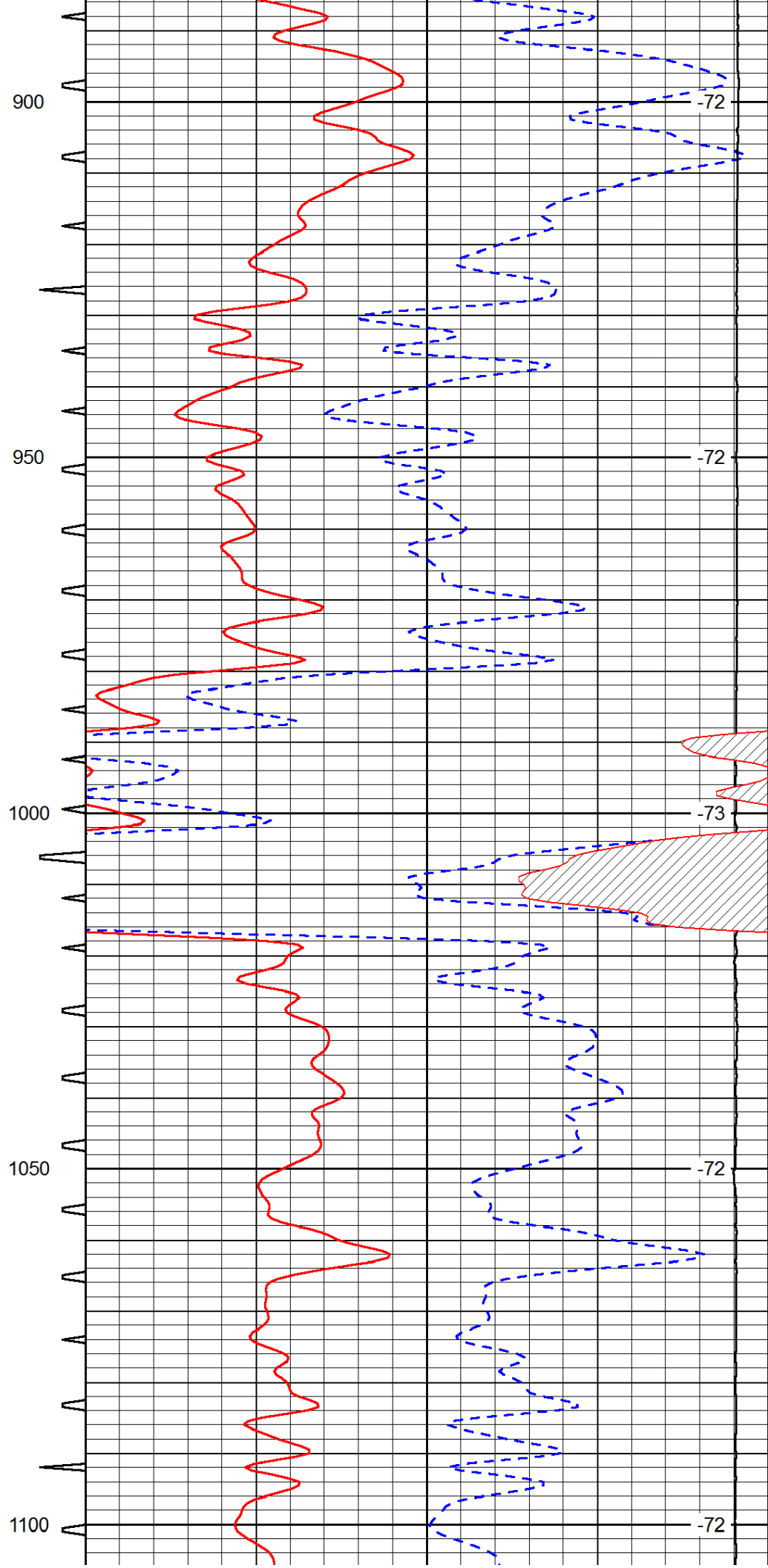
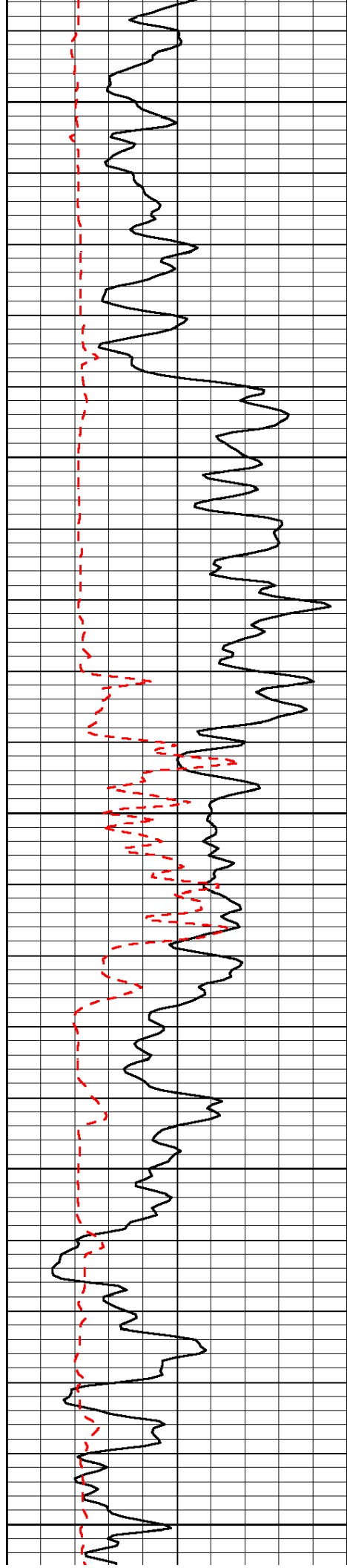
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Dataset Pathname: DIL/chstck
Presentation Format: sonic
Dataset Creation: Wed Nov 26 06:19:11 2014
Charted by: Depth in Feet scaled 1:240

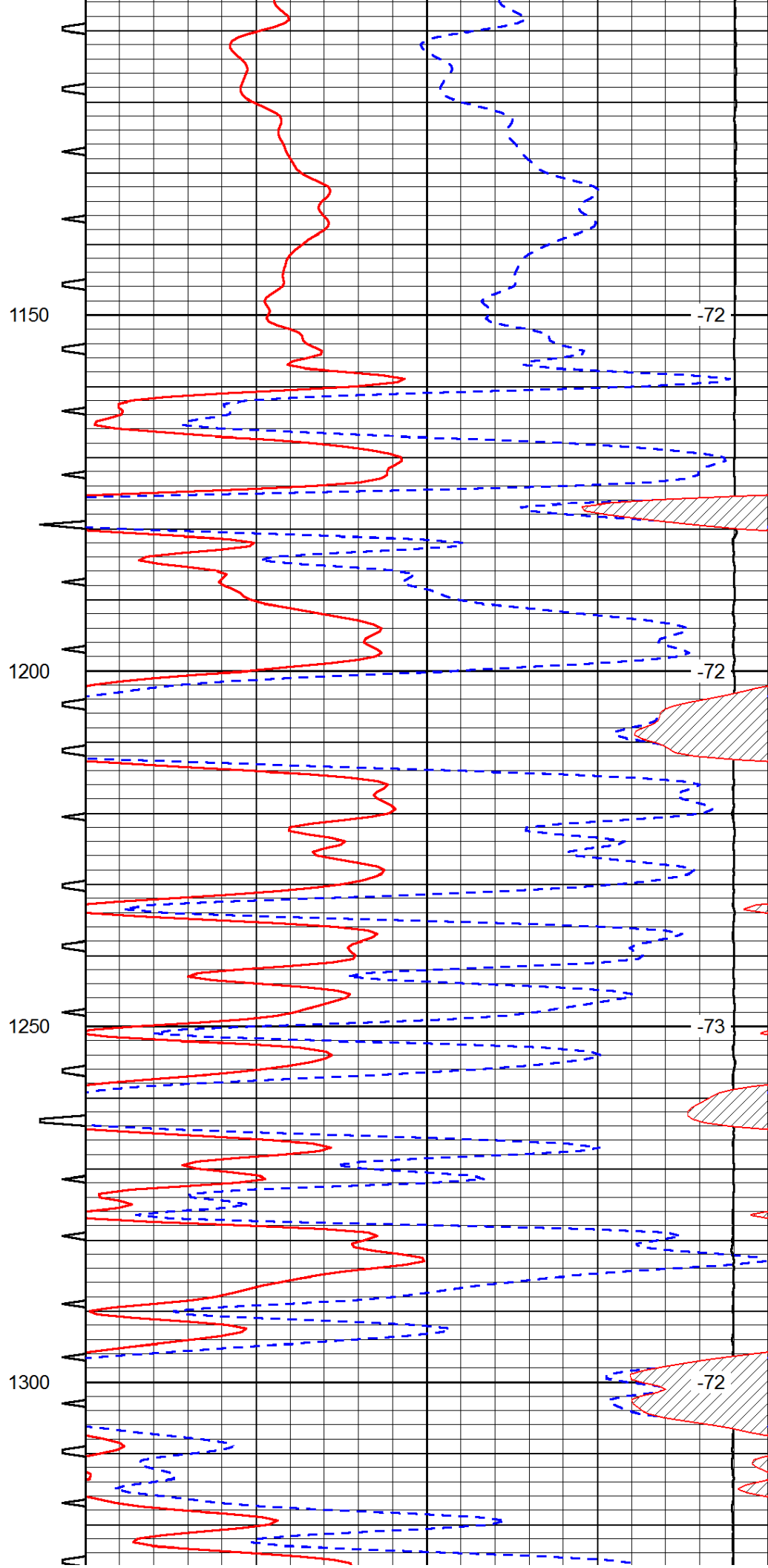
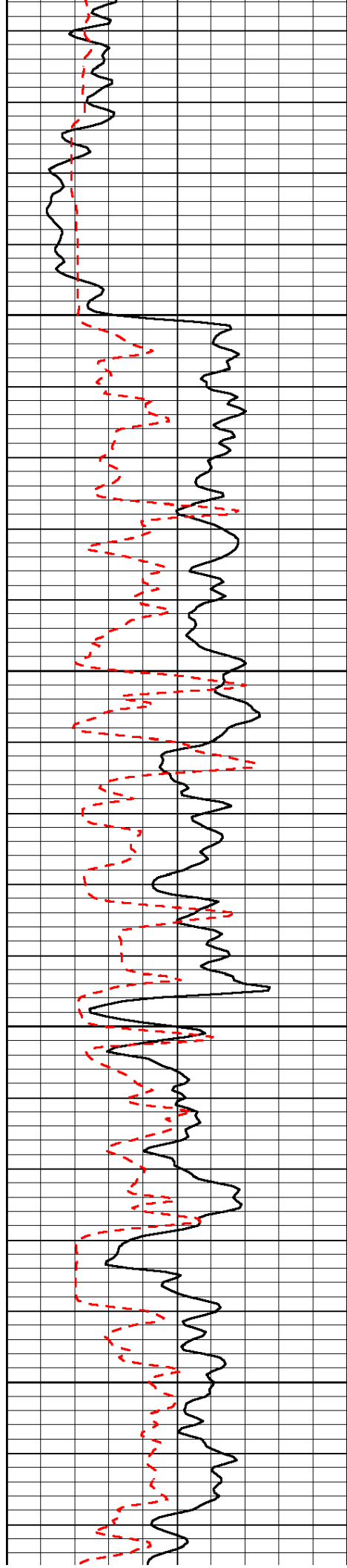
0	Gamma Ray	150	Sonic Int	140	Delta Time (usec/ft)	40
150	Gamma Ray	300	5	0	SPOR	-10
6	Caliper (GAPI)	16		15000	LTEN (lb)	0
						LSPD

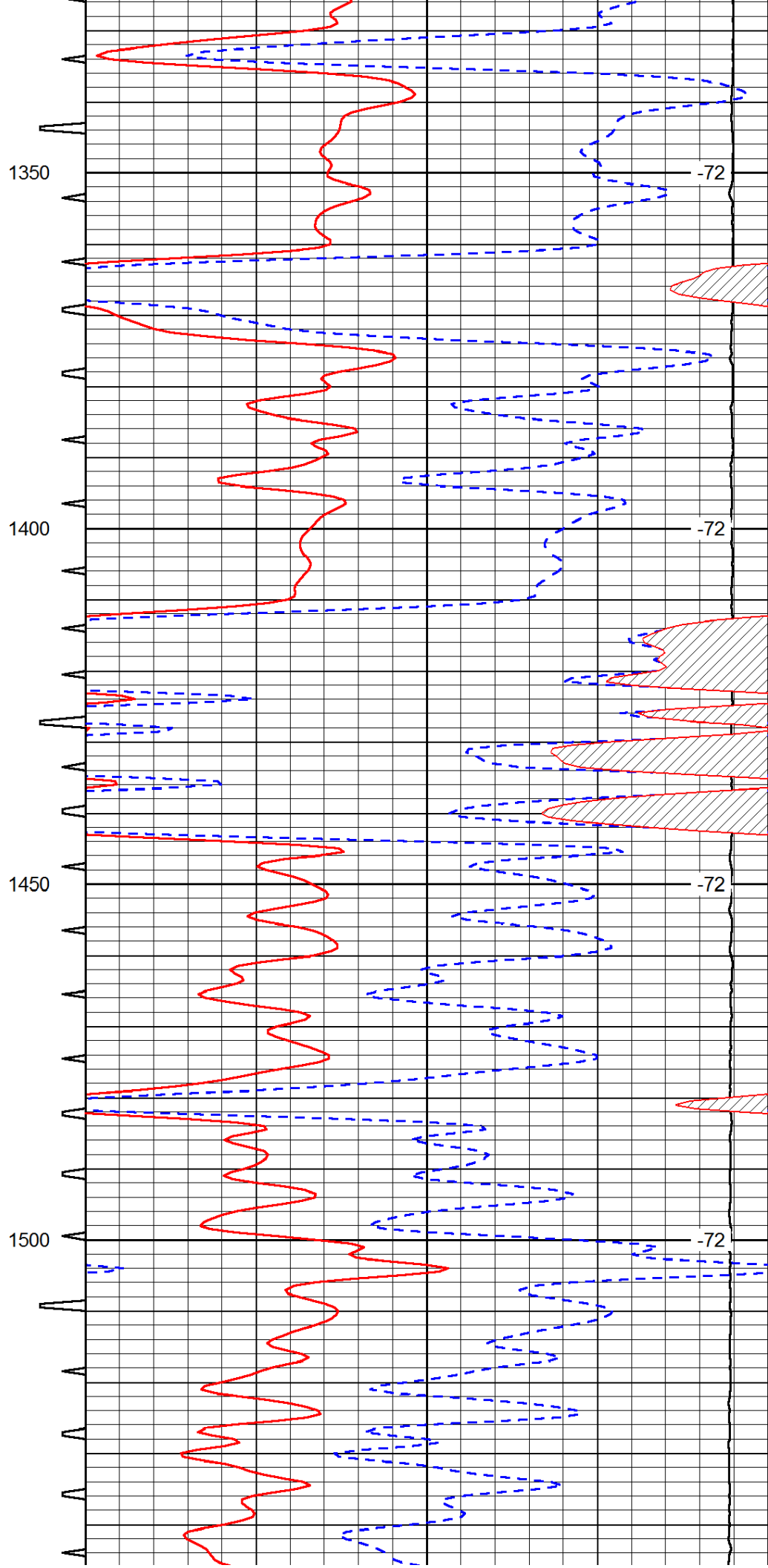
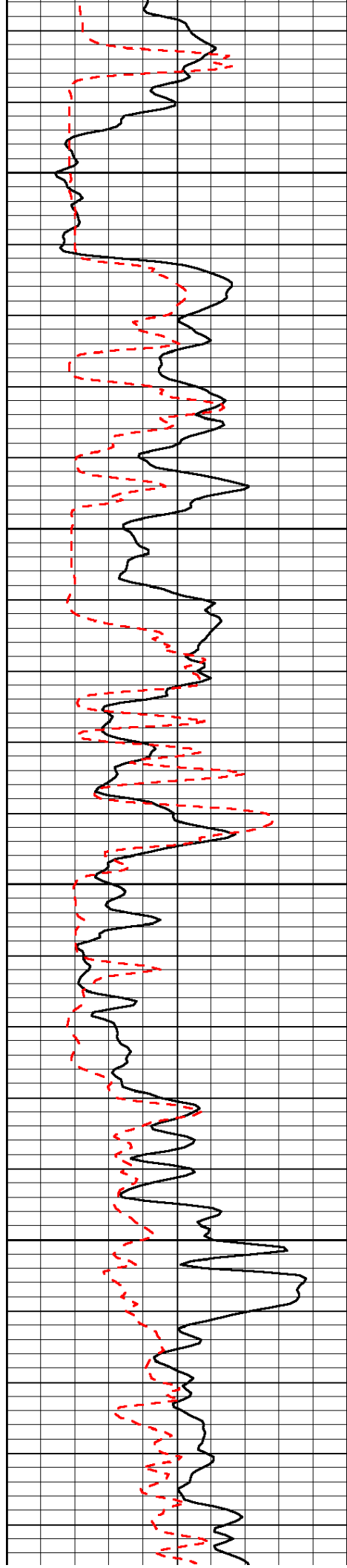


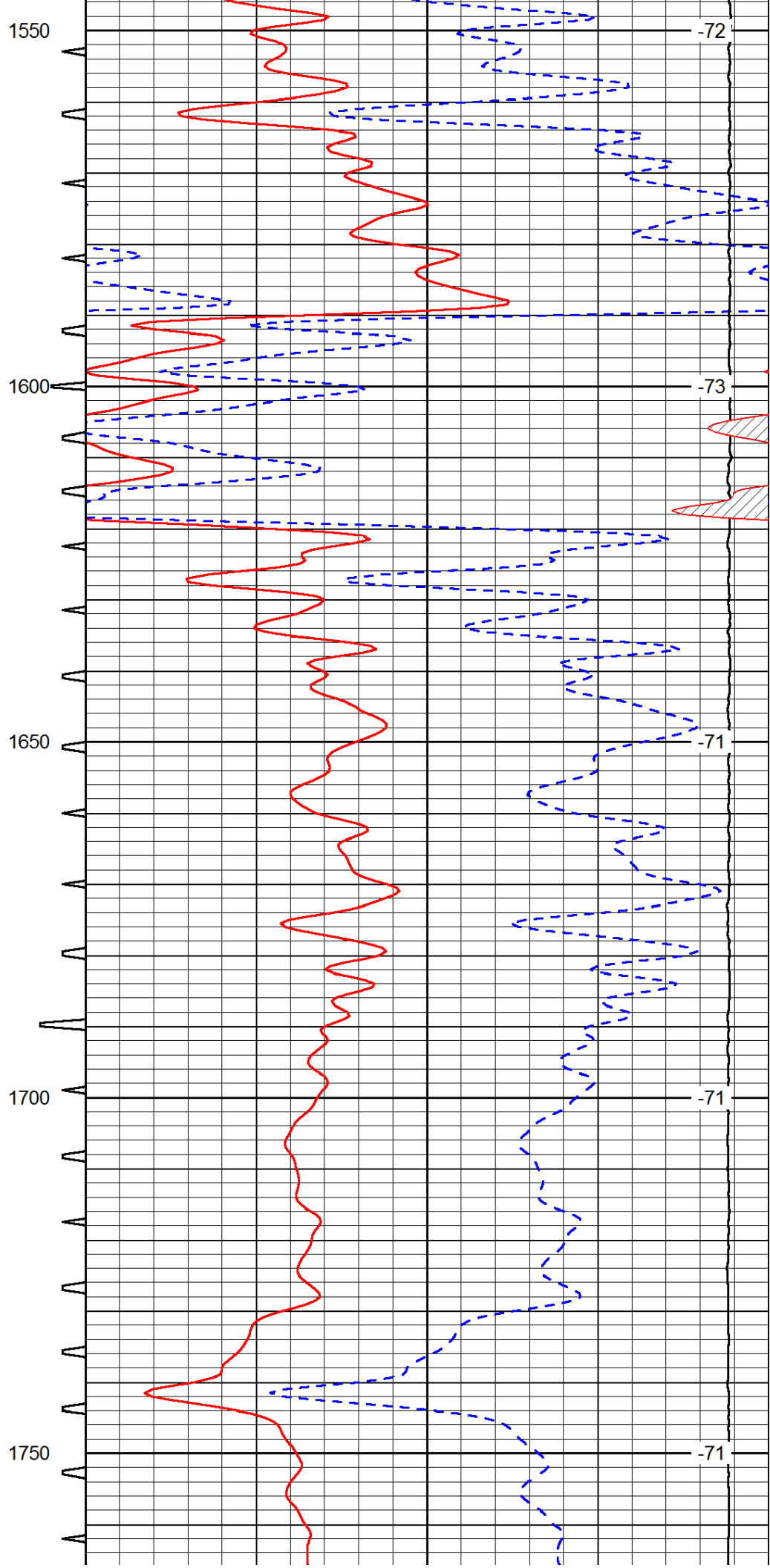
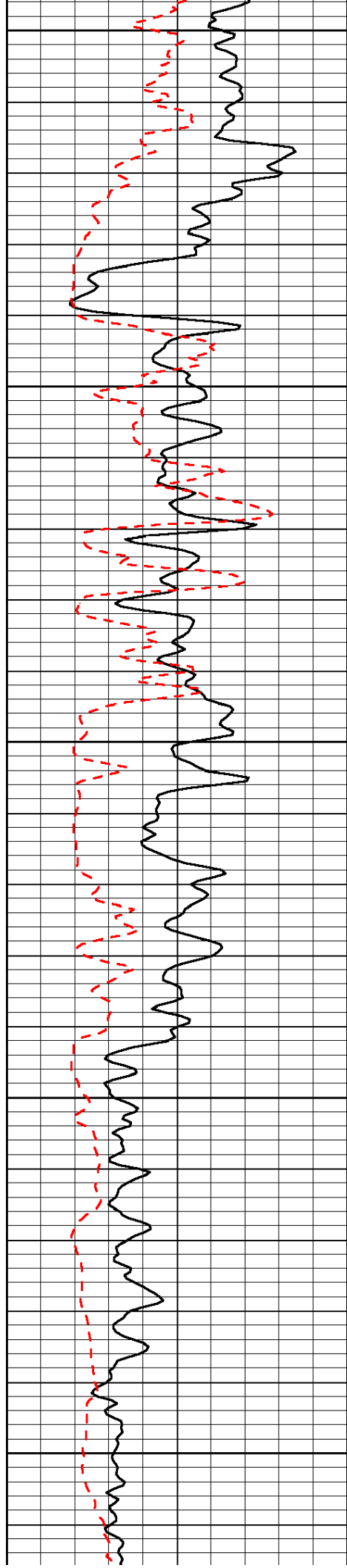


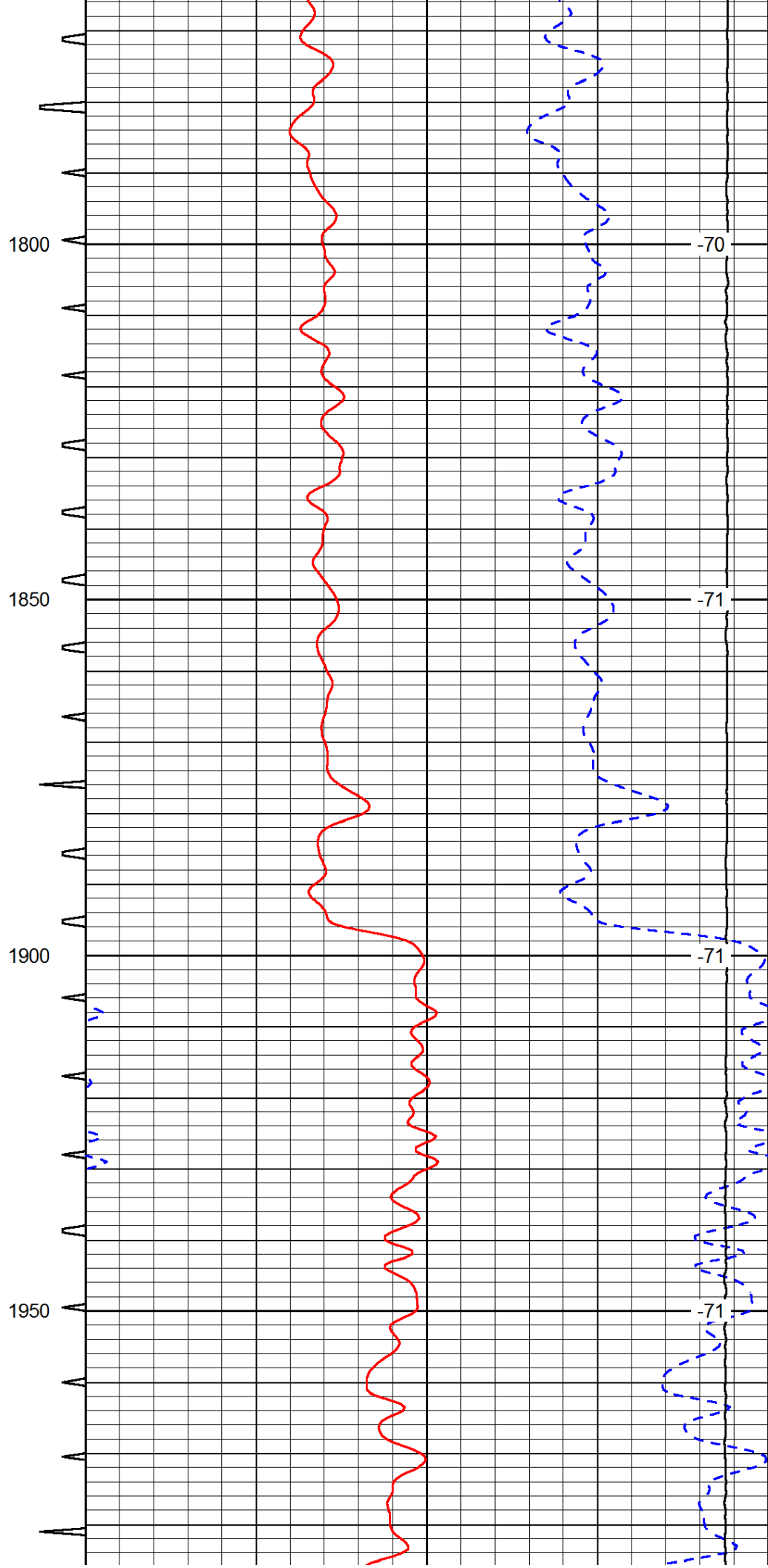
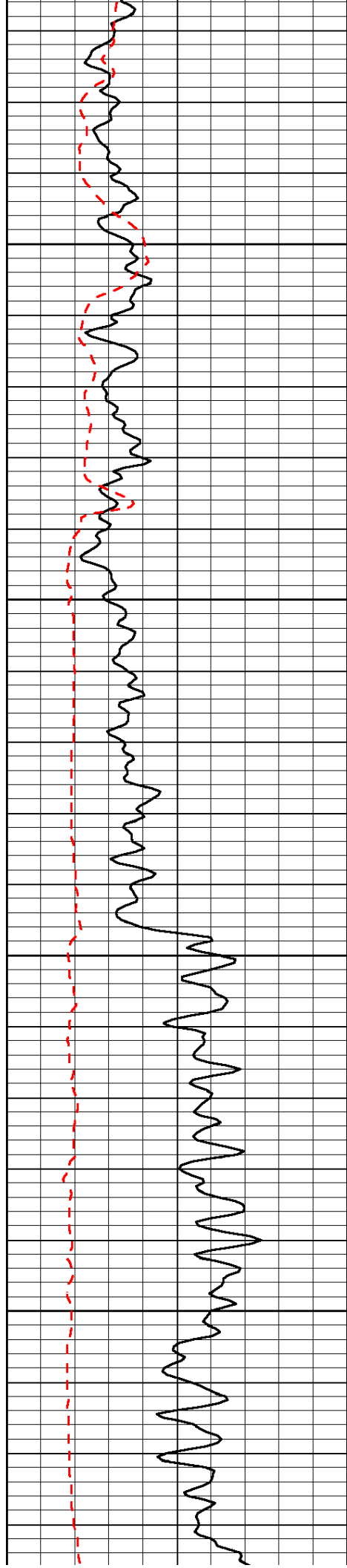


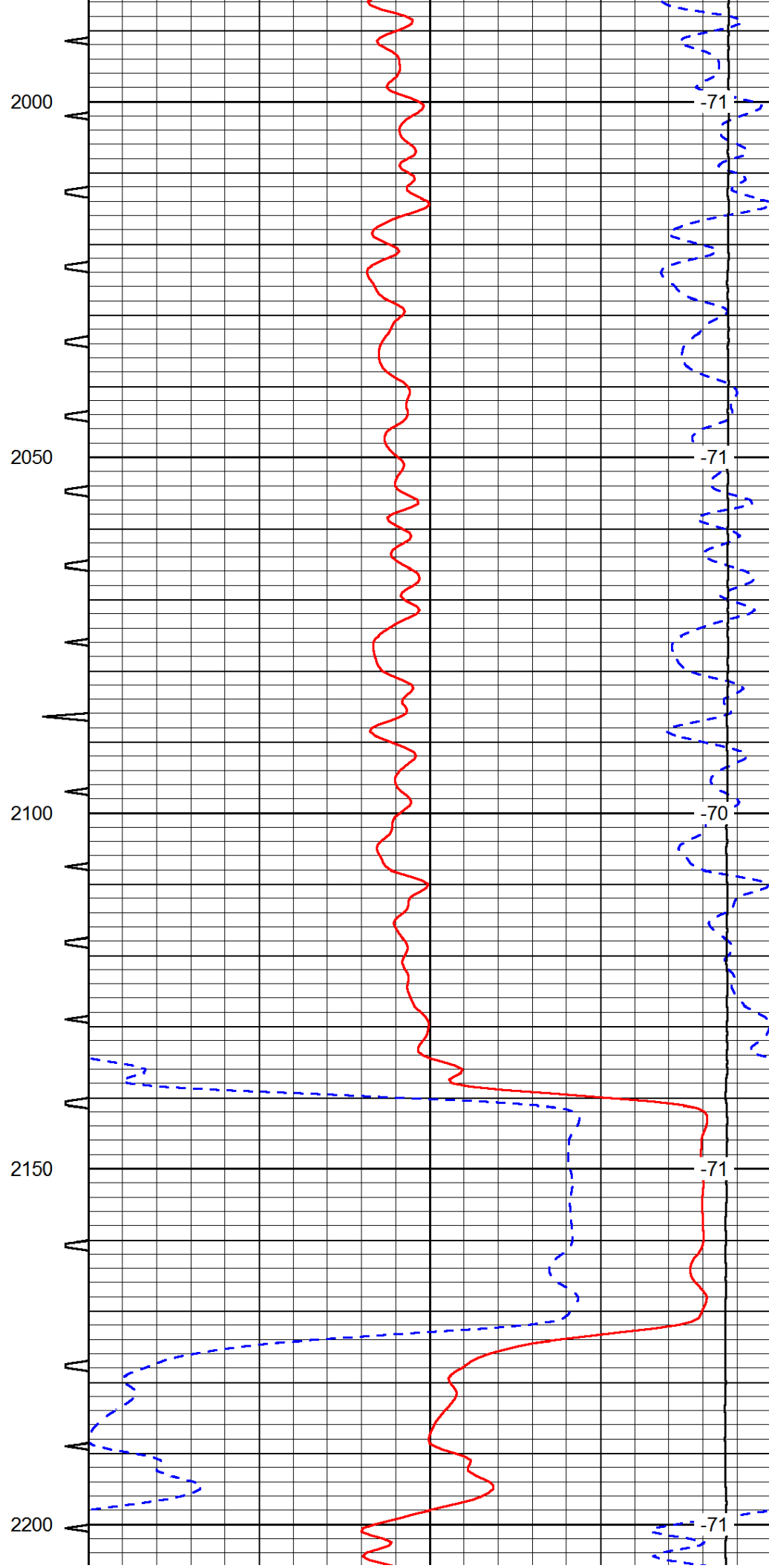
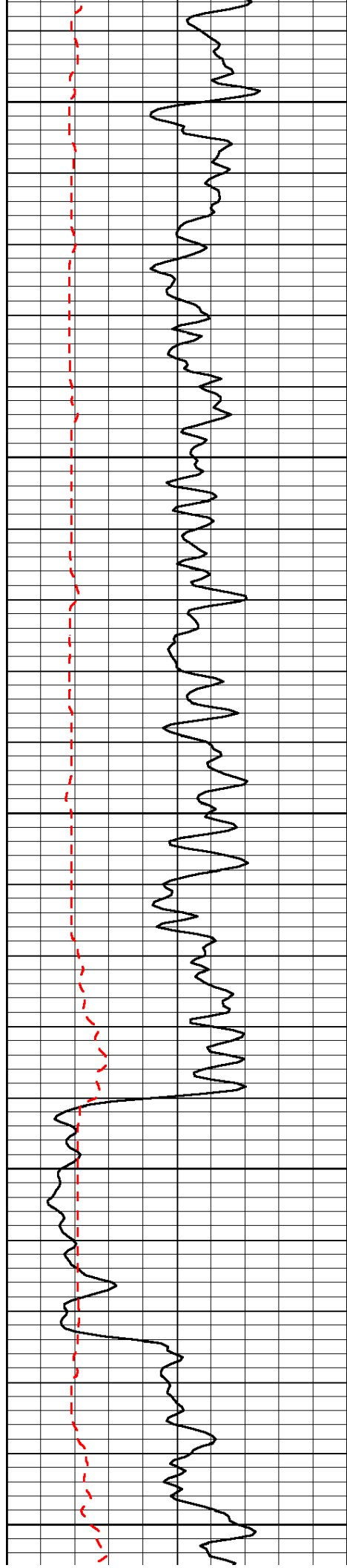


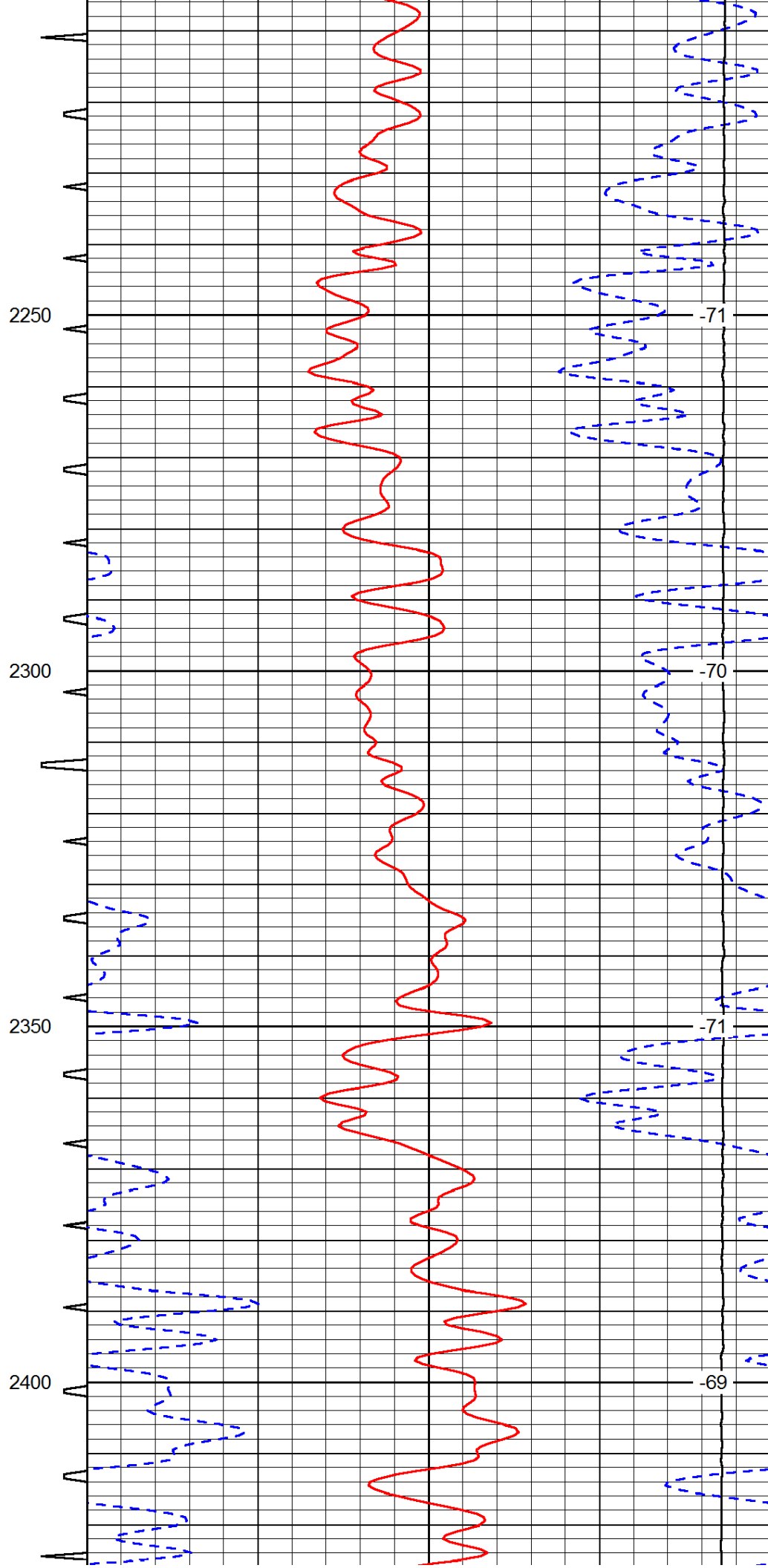
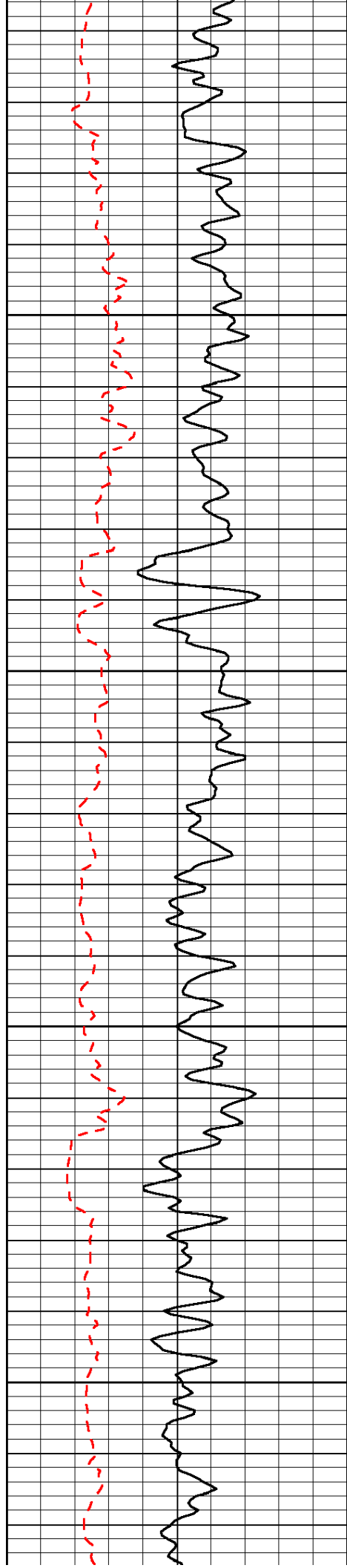


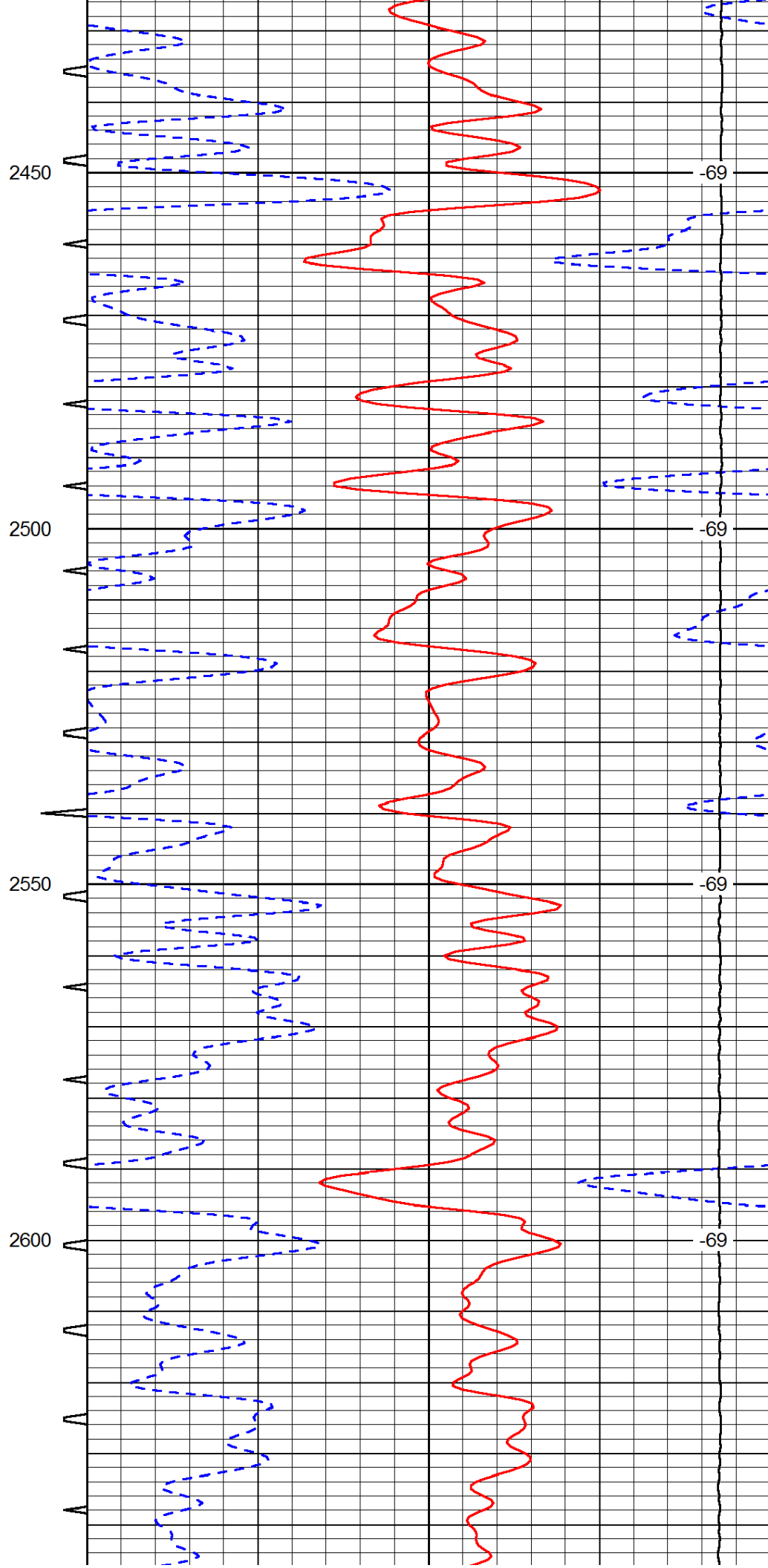
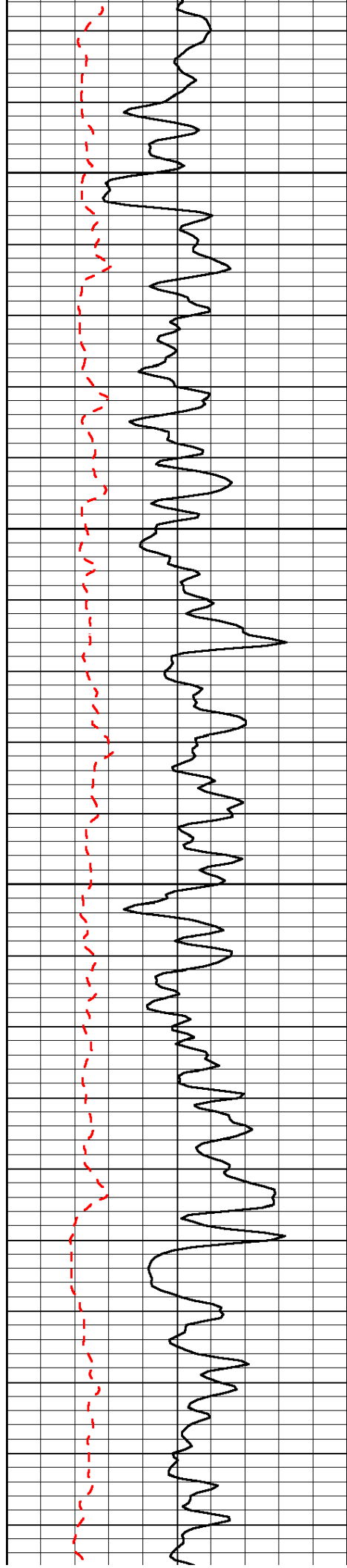


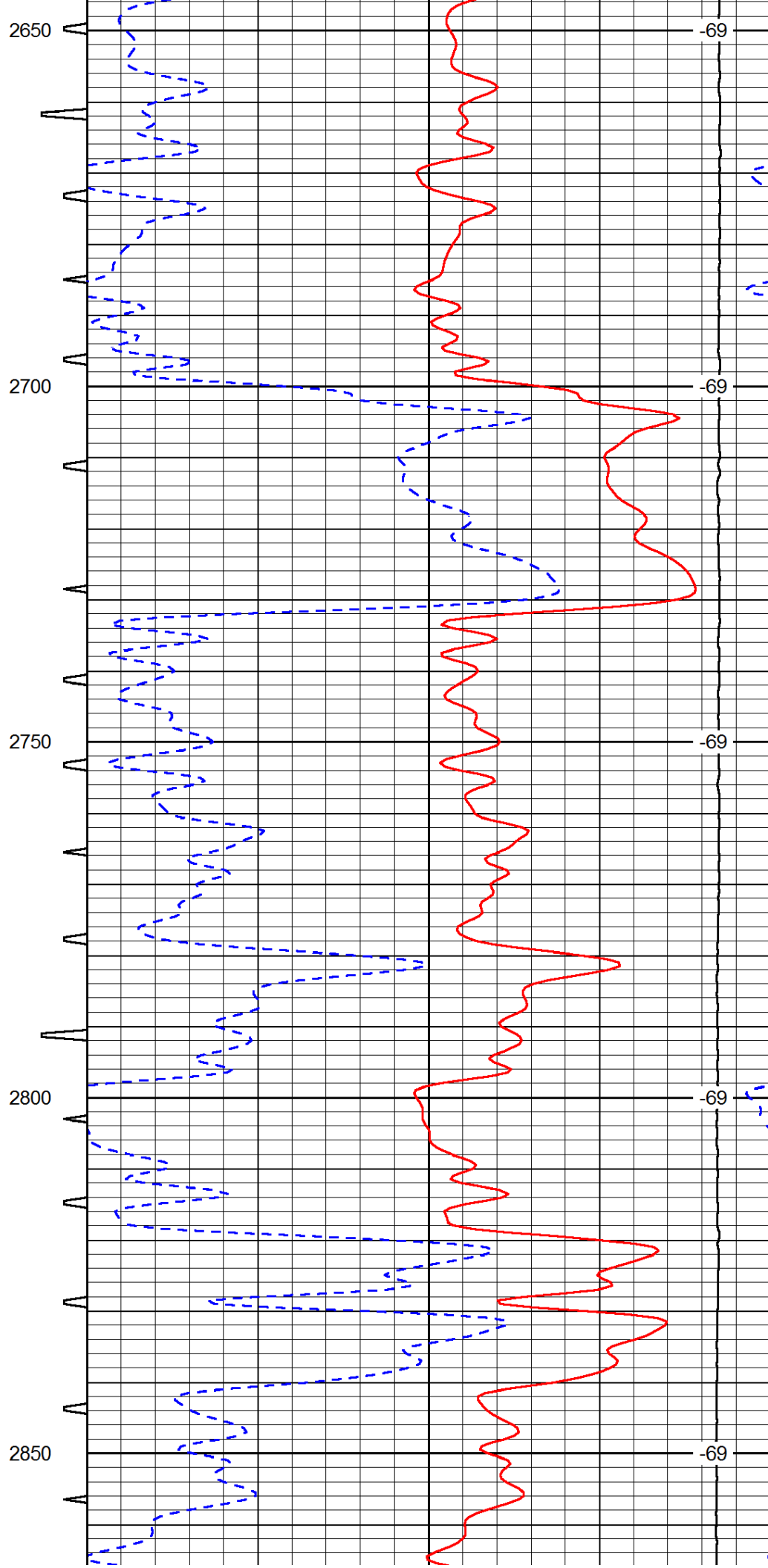
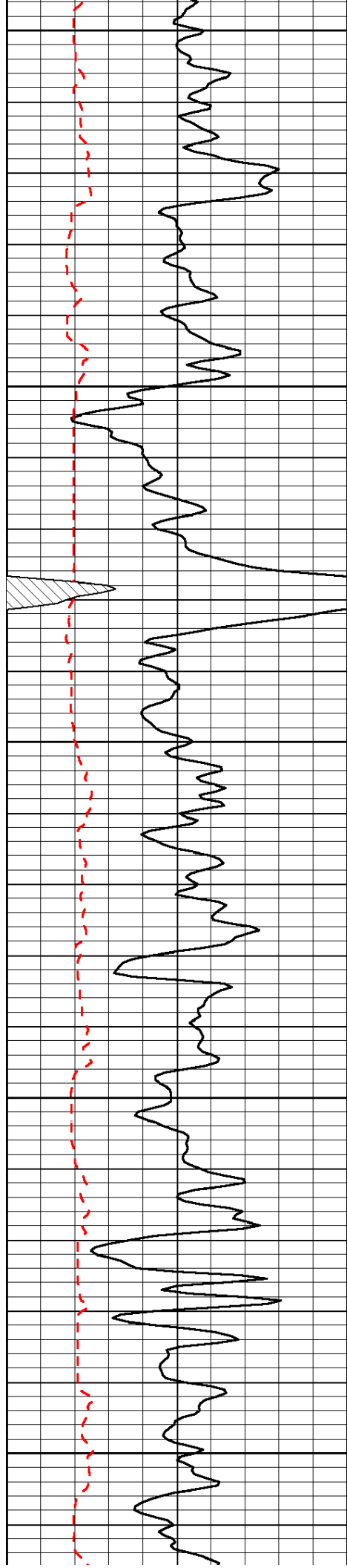


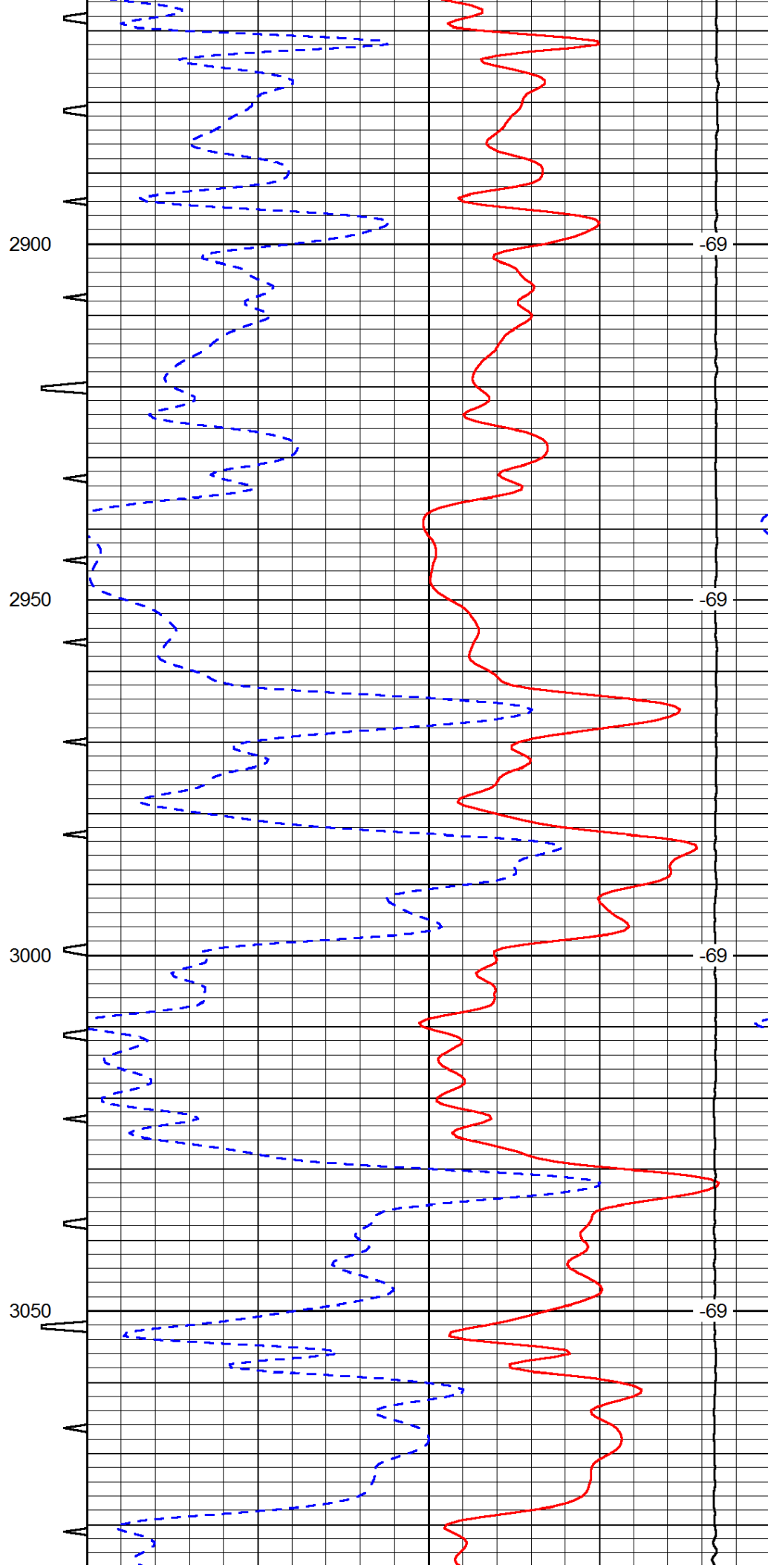
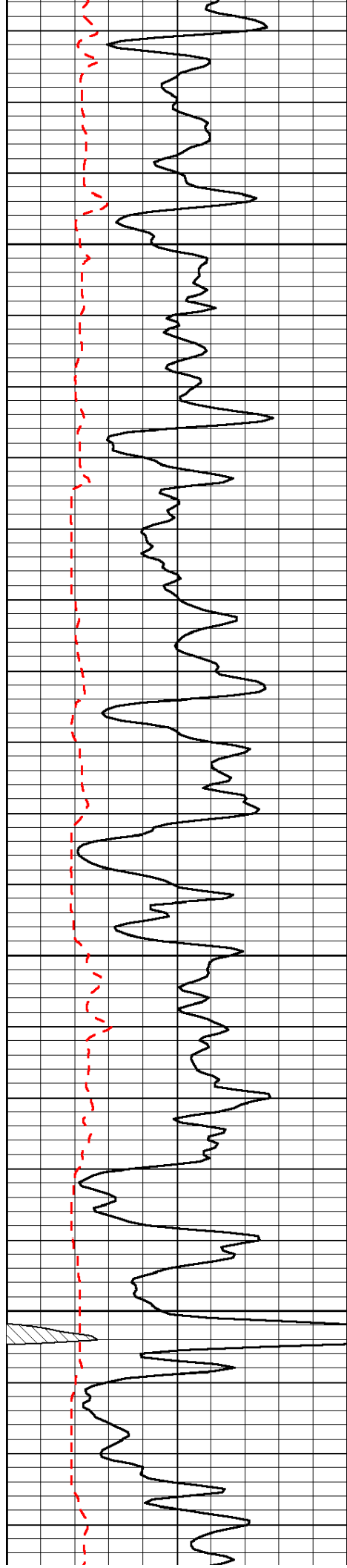


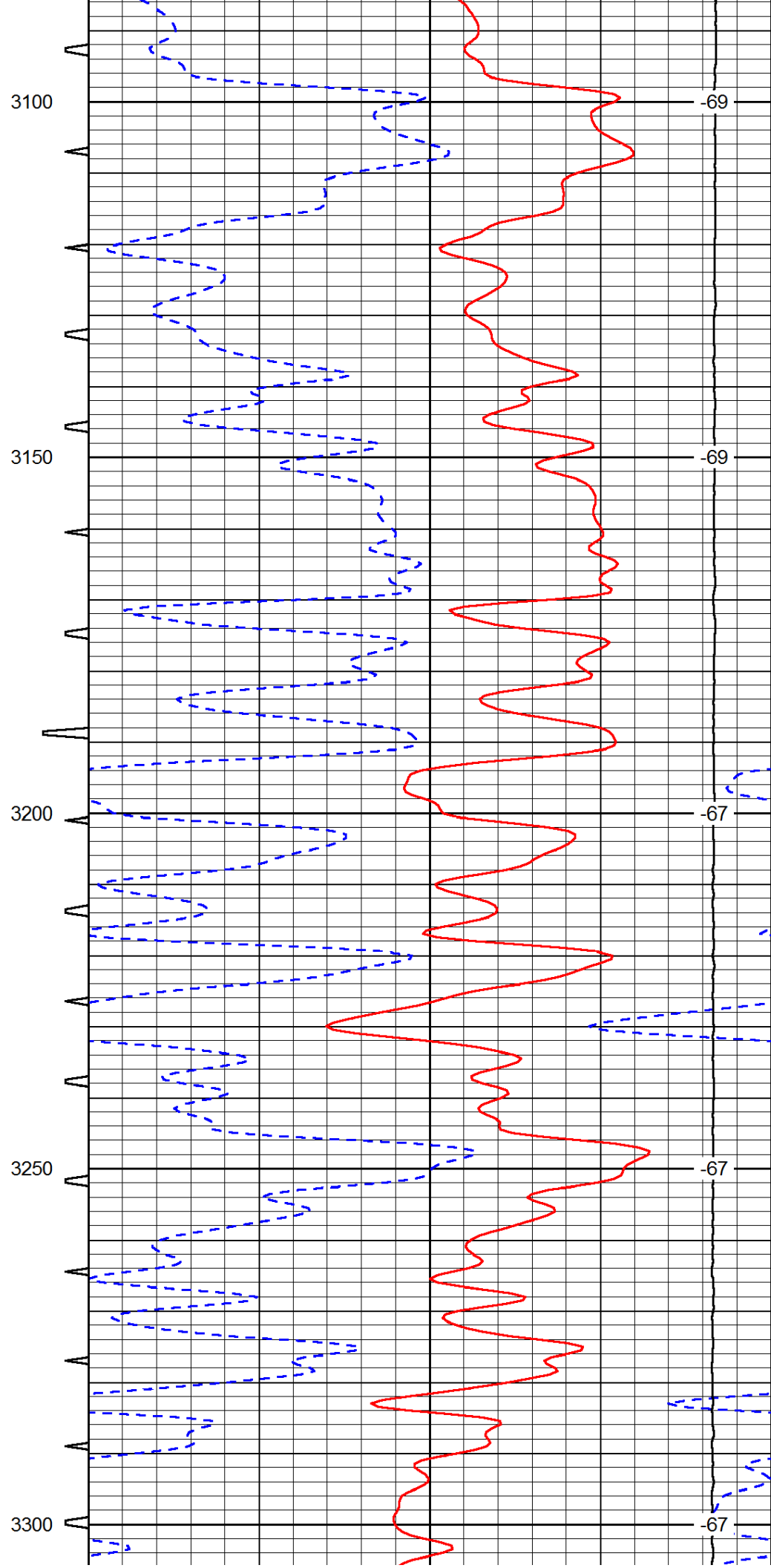
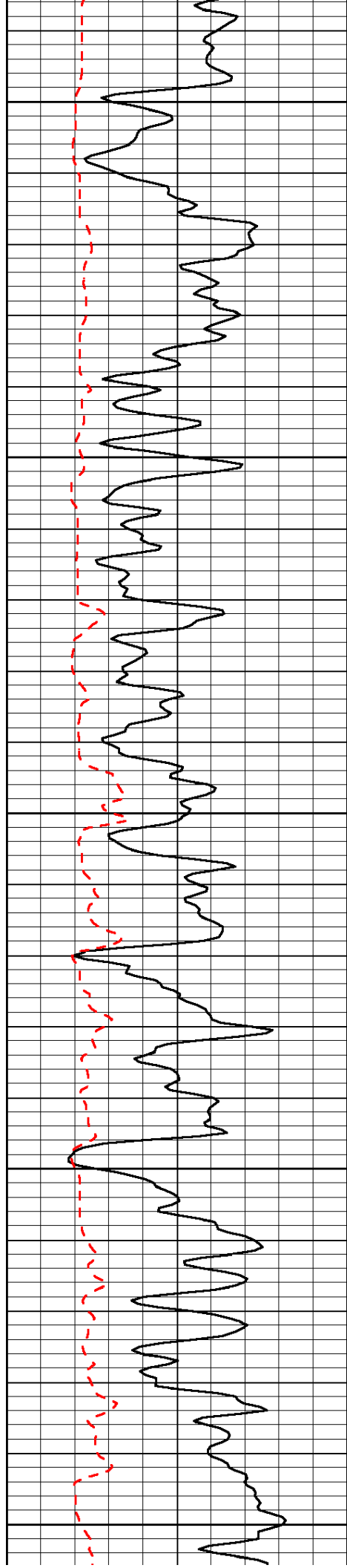


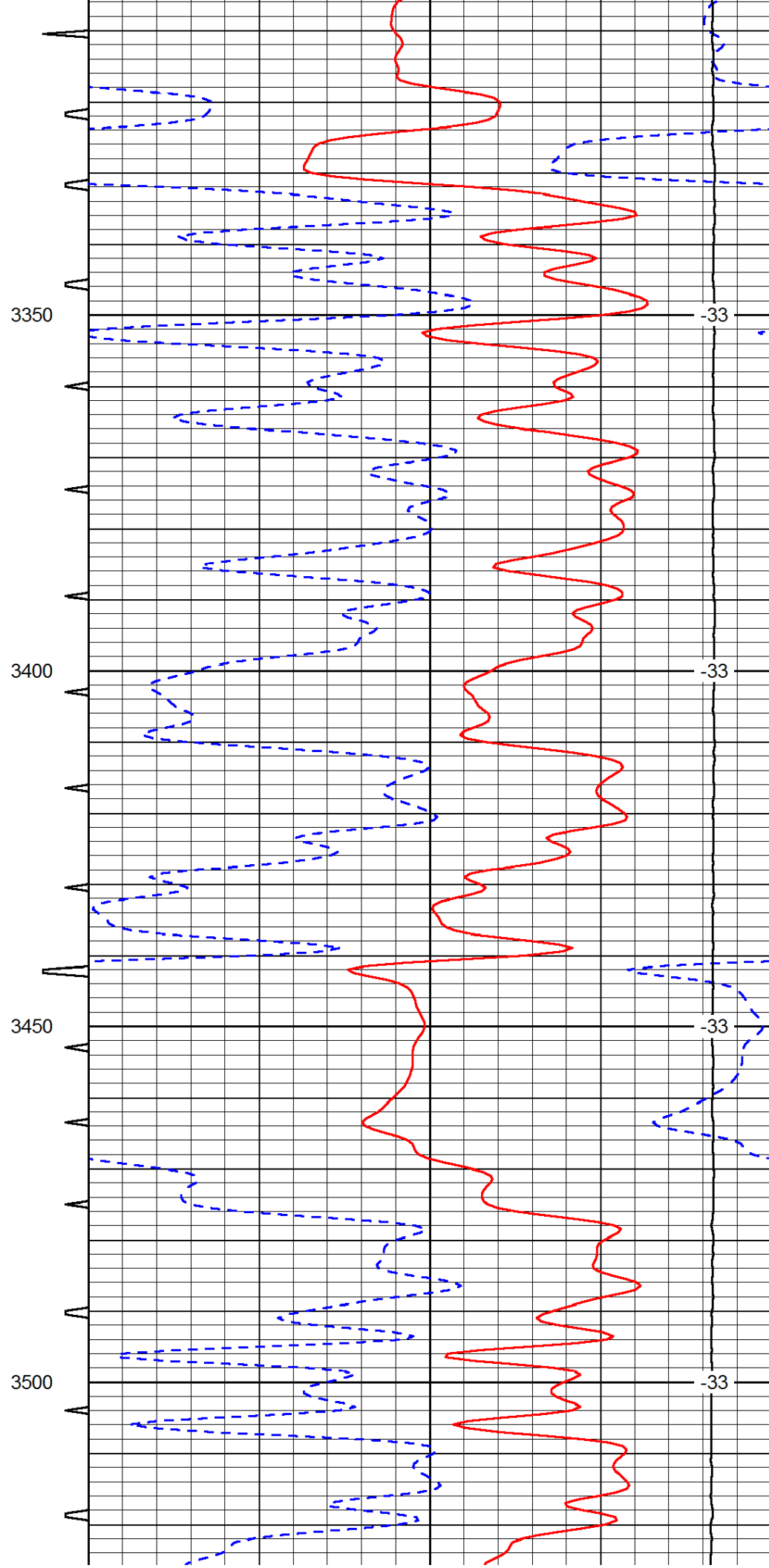
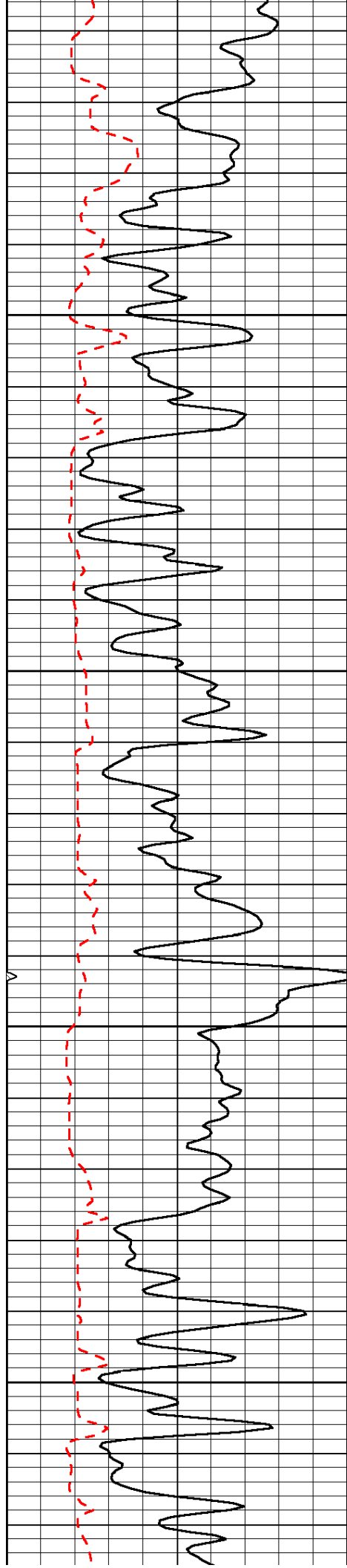


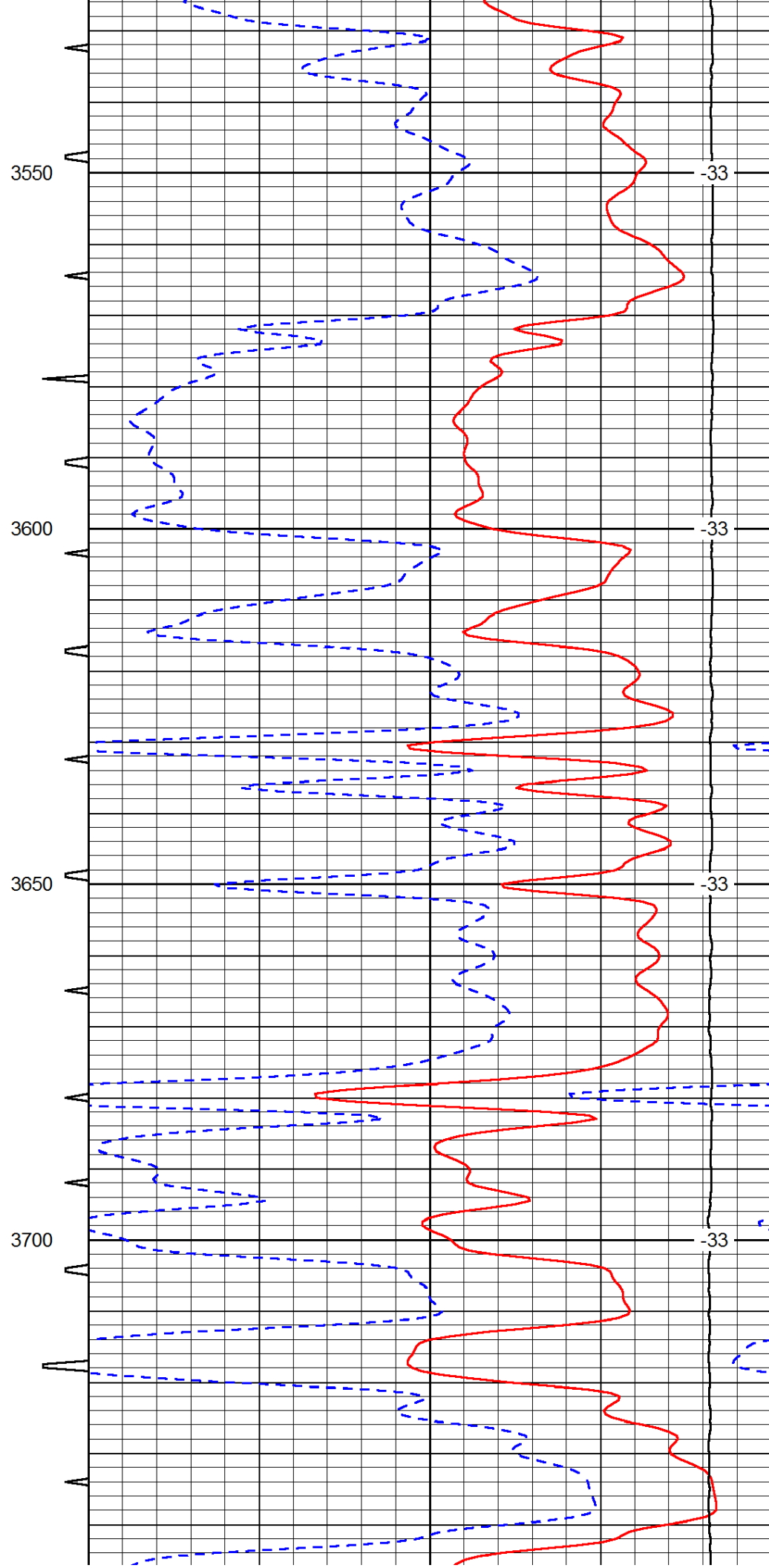
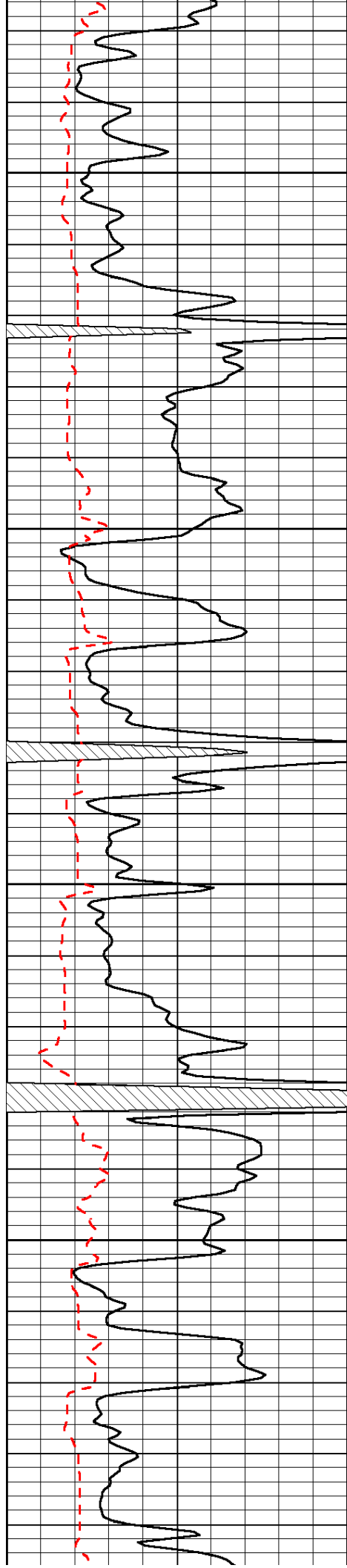


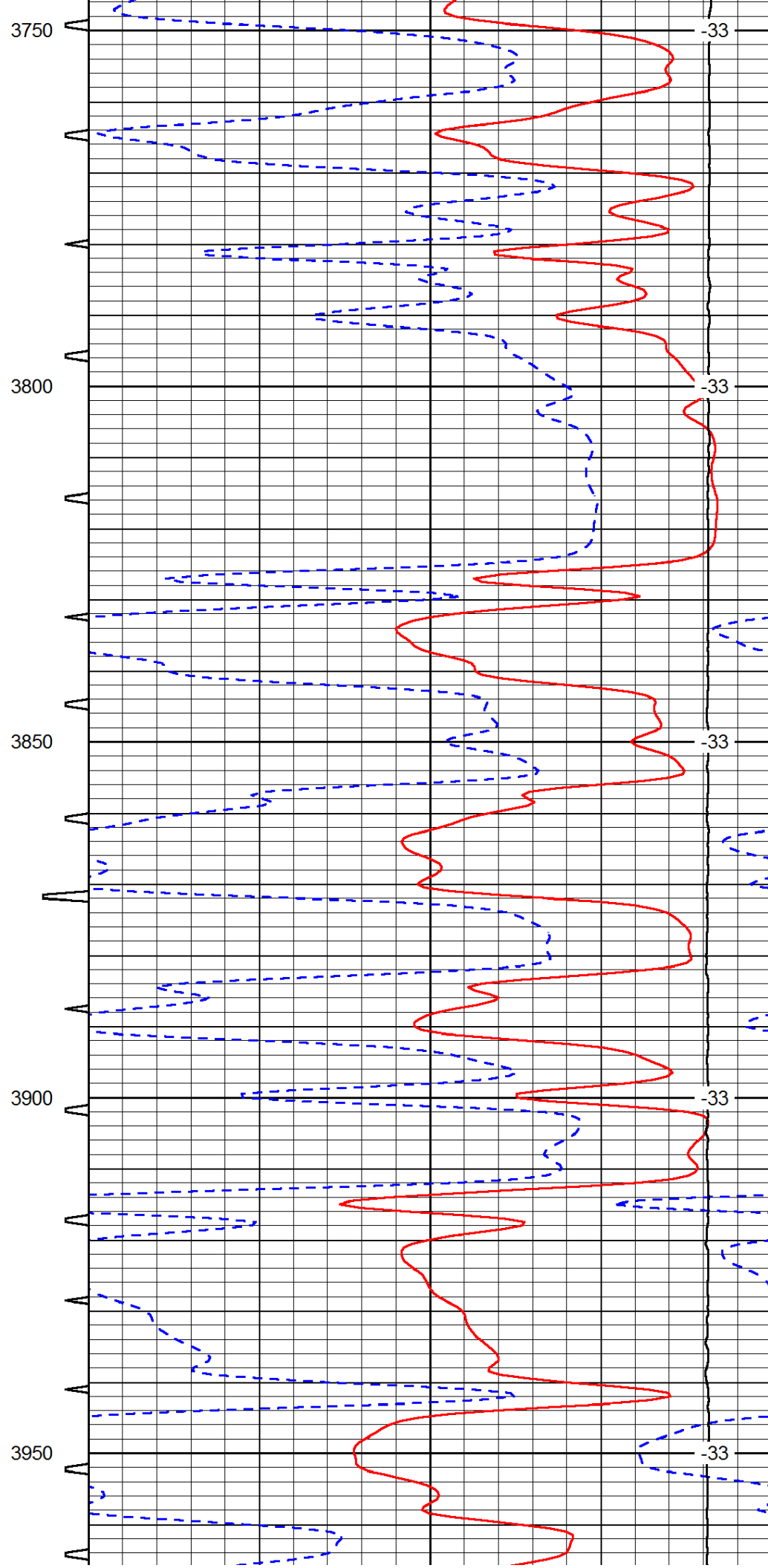
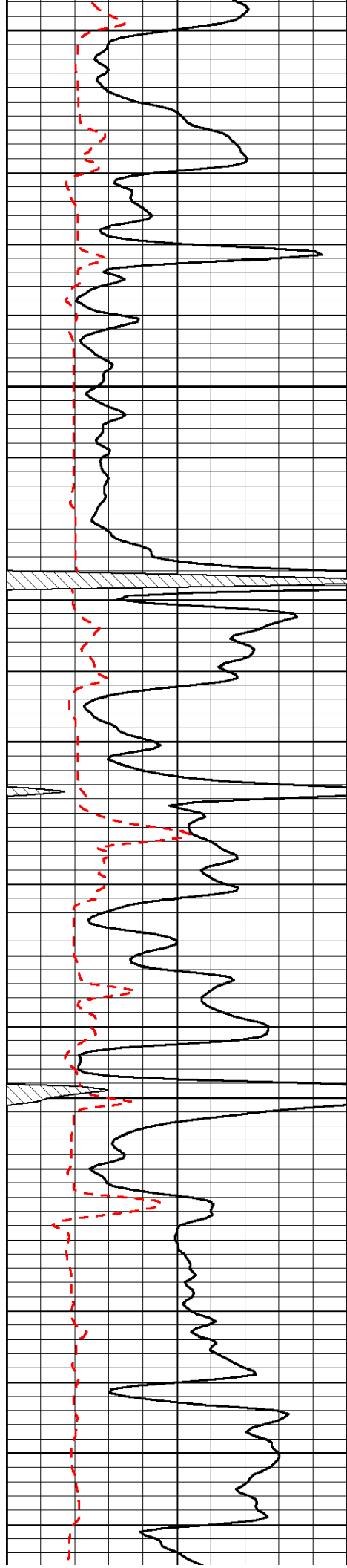


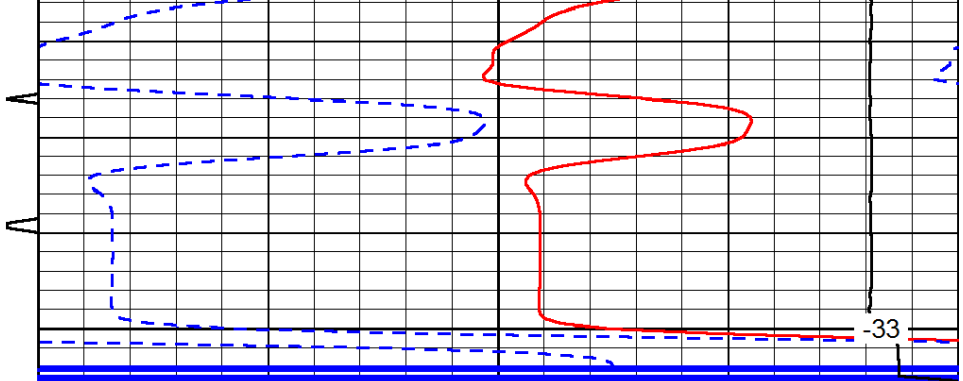












0	Gamma Ray	150
150	Gamma Ray	300
6	Caliper (GAPI)	16

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

LSPD