



Pioneer Energy Services

Borehole Compensated Sonic Log

15-145-21,747-00-00

API No.

Company **H&B Petroleum Corporation**
 Well **Ashworth #1**
 Field **Hurray**
 County **Pawnee** State **Kansas**

Location **1615' FSL & 330' FEL**
 Sec: **3** Twp: **22S** Rge: **15W**

Other Services
 CNL/CDL
 MEL/DIL

Permanent Datum **Ground Level** Elevation **1973**
 Log Measured From **Kelly Bushing** **10 Ft. Above Perm. Datum**
 Drilling Measured From **Kelly Bushing**

Elevation
 K.B. 1983
 D.F. 1973
 G.L. 1973

Date	1/23/2014	
Run Number	Two	
Type Log	BHC Sonic	
Depth Driller	4035	
Depth Logger	4034	
Bottom Logged Interval	4023	
Top Logged Interval	950	
Type Fluid In Hole	Chemical	
Salinity, PPM CL	5000	
Density	9.1	
Level	Full	
Max. Rec. Temp. F	116	
Operating Rig Time	5 Hours	
Equipment -- Location	15 Hays	
Recorded By	D Kerr	
Witnessed By	Jim Musgrove	

Borehole Record		Casing Record					
Run No.	Bit	From	To	Size	Wgt.	From	To
1	12.25	00	962	8.625	24#	00	962
2	7.875	962	4035				

<<< 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

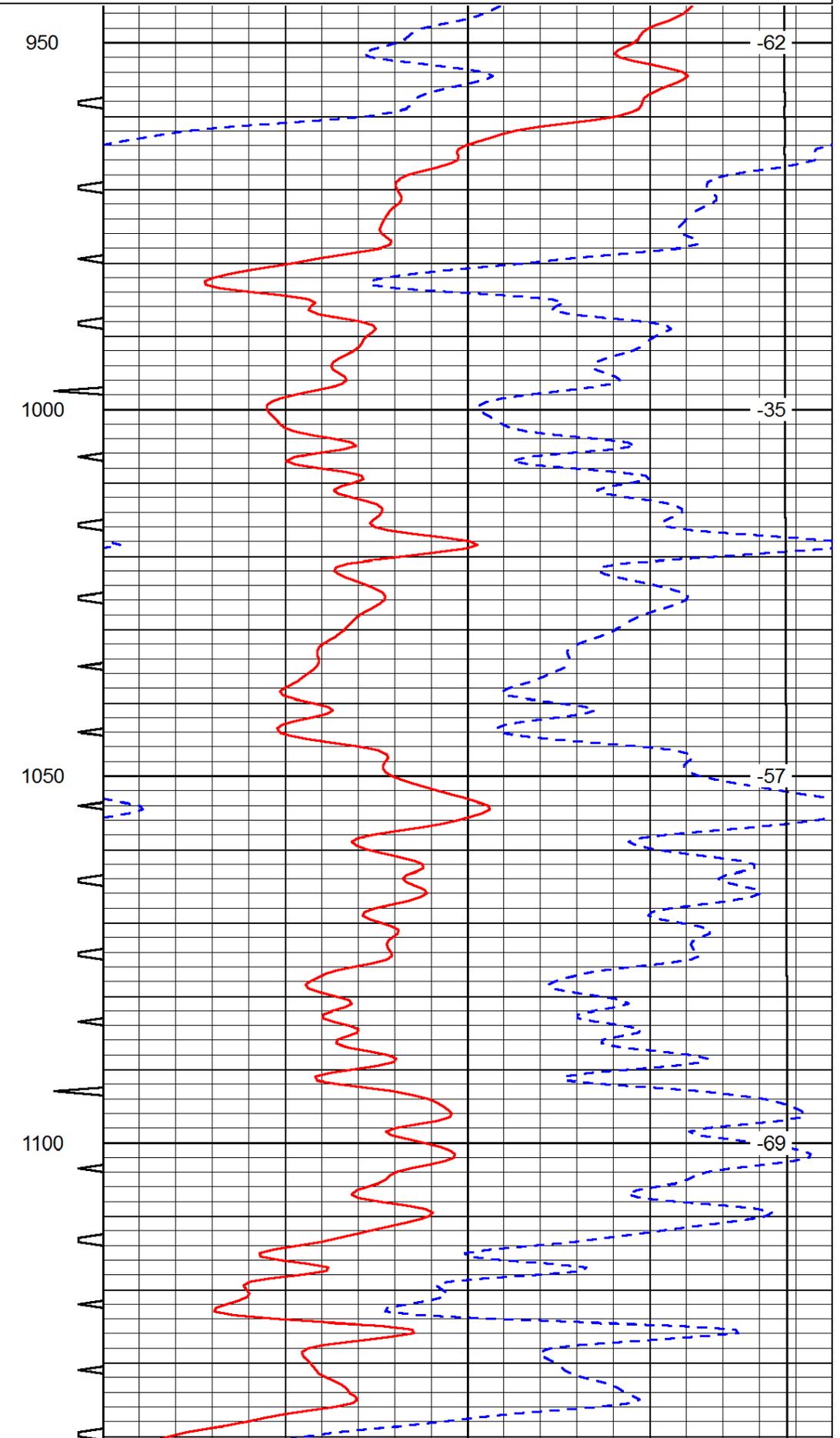
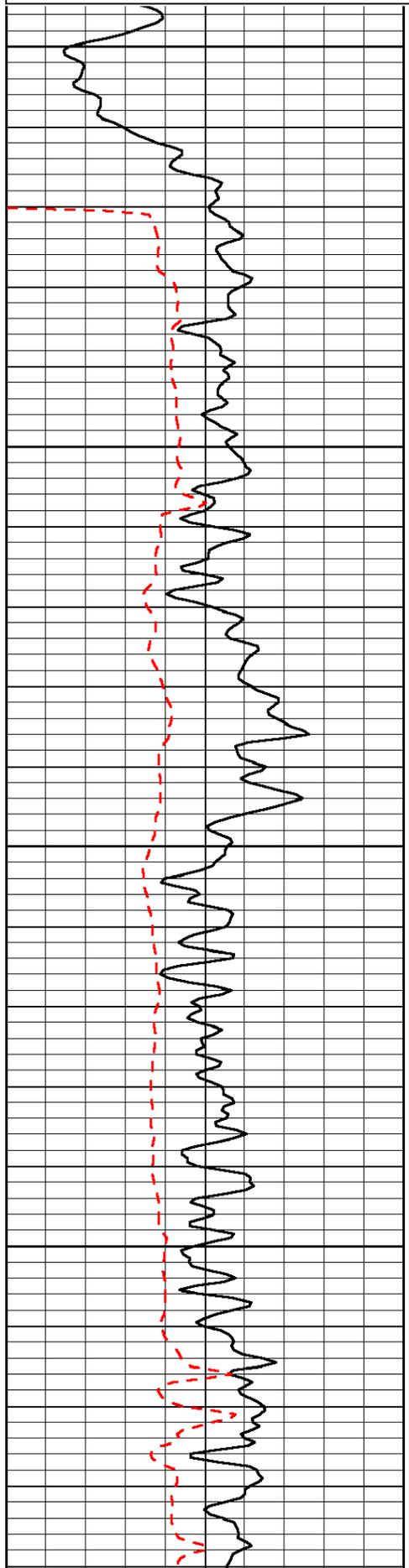
Thank you for using Pioneer Energy Services
www.pioneerenergy.com
 785 625 3858

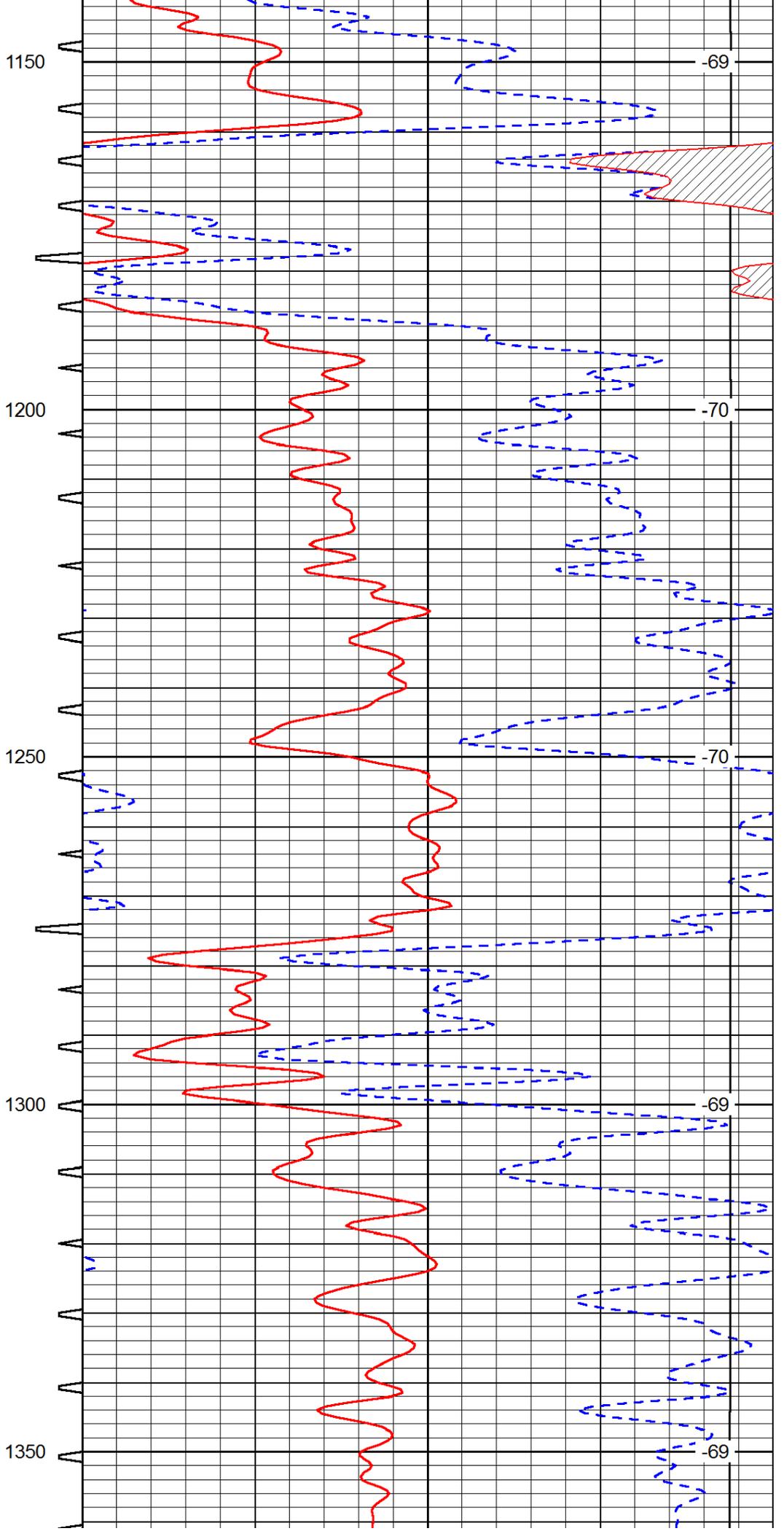
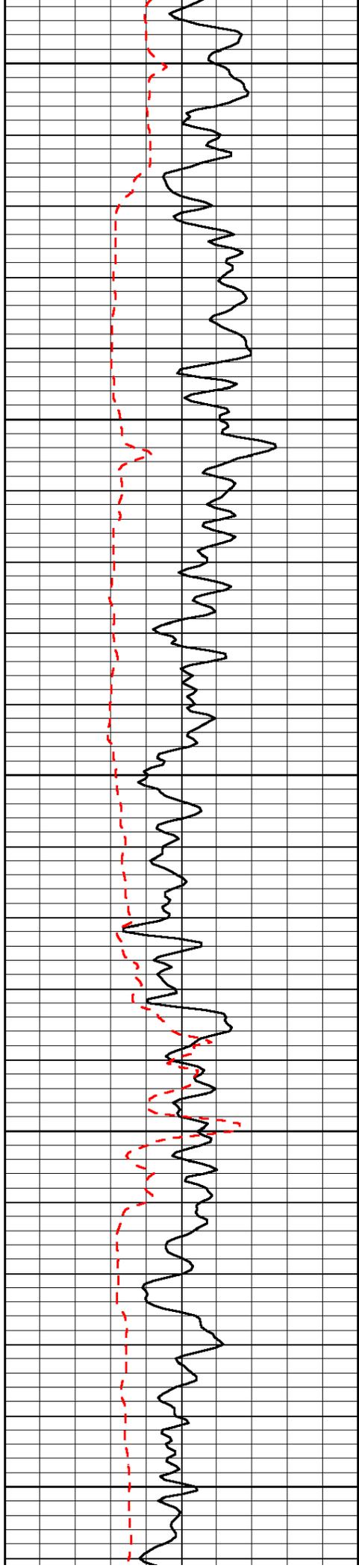
Larned KS, East on K-19 to 30 RD,
 1/2 North, West Into

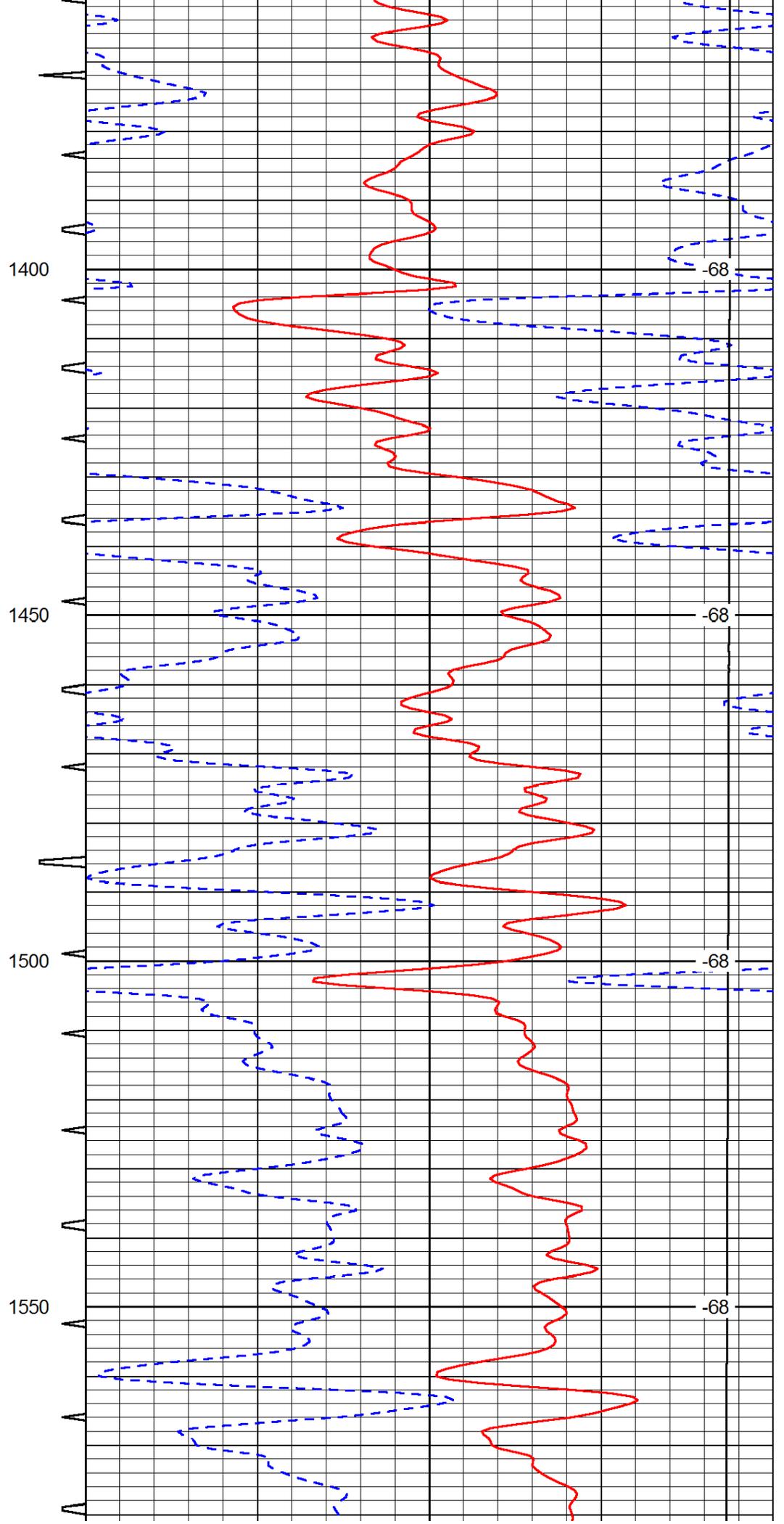
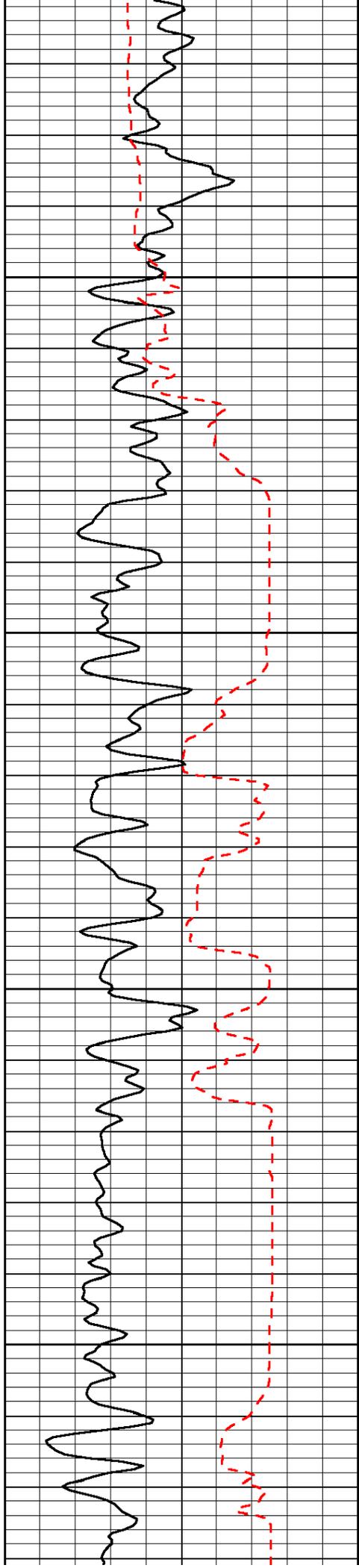
Database File: c:\warrior\data\h&b_ashworth #1\h&b_ashworth_1hd.db
 Dataset Pathname: cpi/hbstk
 Presentation Format: sonic
 Dataset Creation: Thu Jan 23 09:01:03 2014
 Charted by: Depth in Feet scaled 1:240

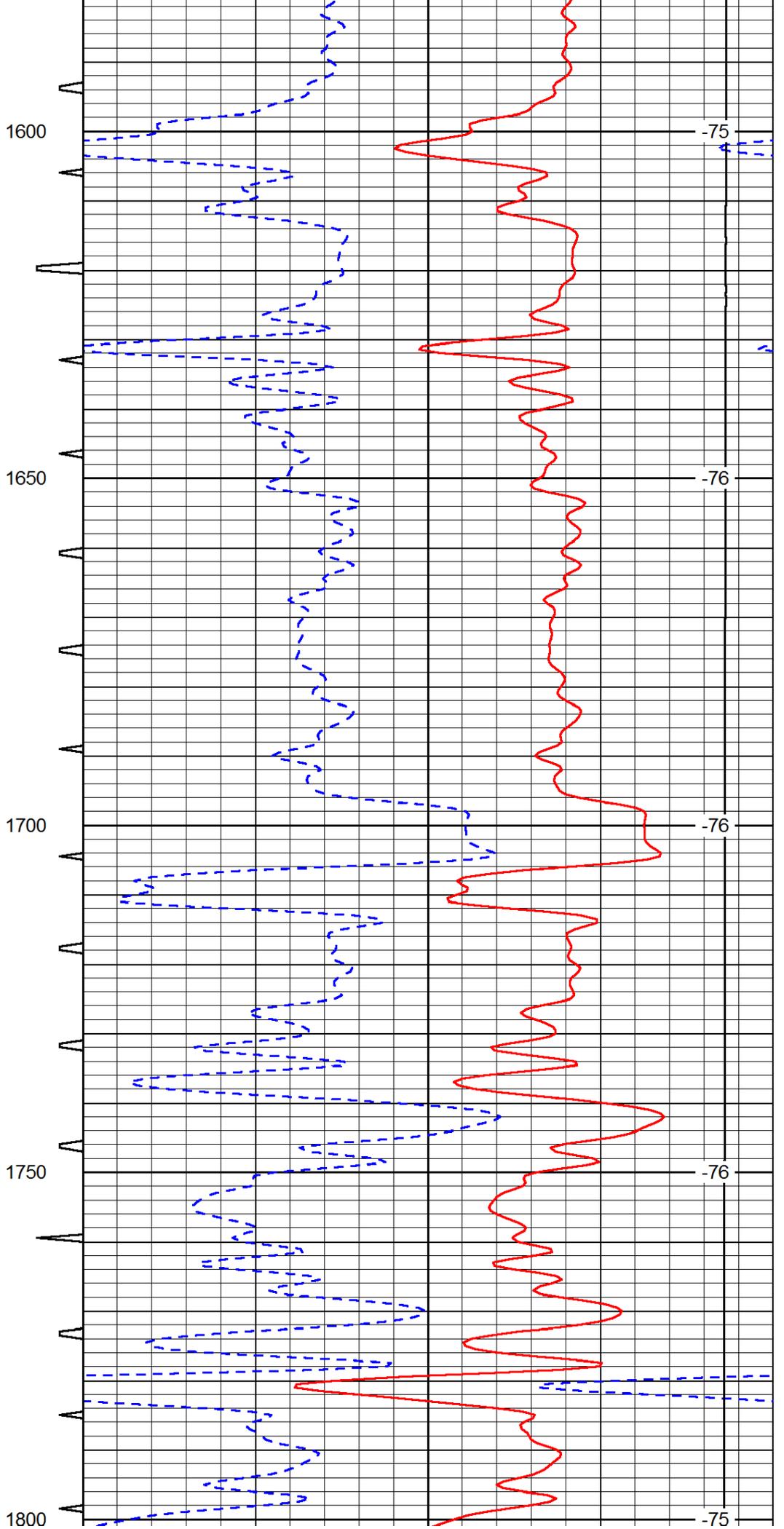
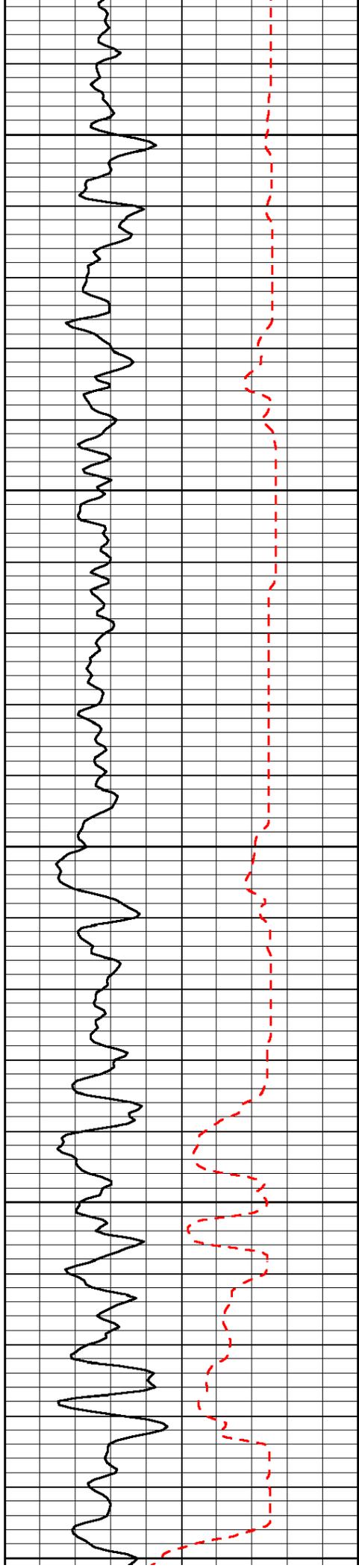
0	Gamma Ray	150	Sonic Int	140	Delta Time (usec/ft)	40
150	Gamma Ray	300	5	0	SPOR	-10
6	Caliper (GAPI)	16		15000	LTEN (lb)	0

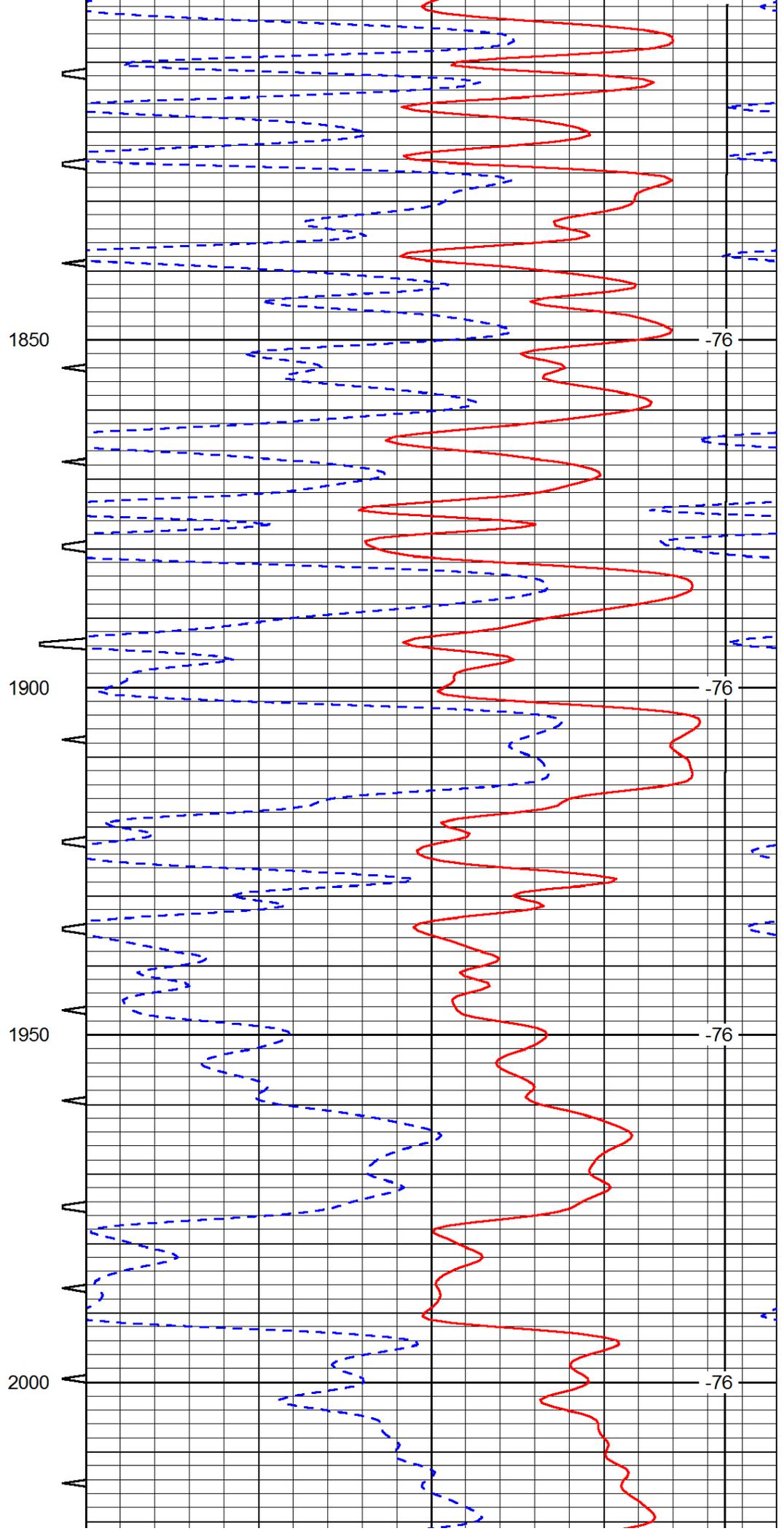
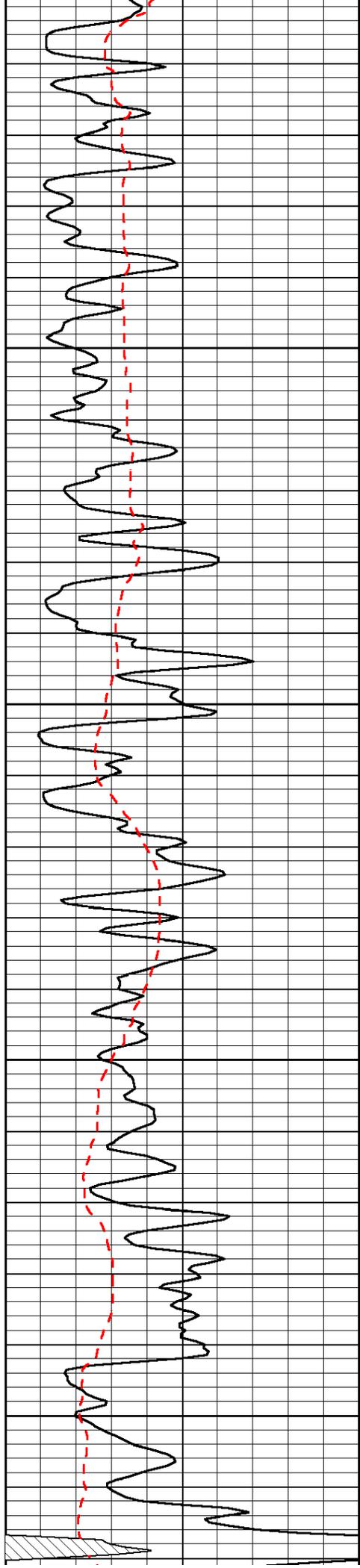
LSPD

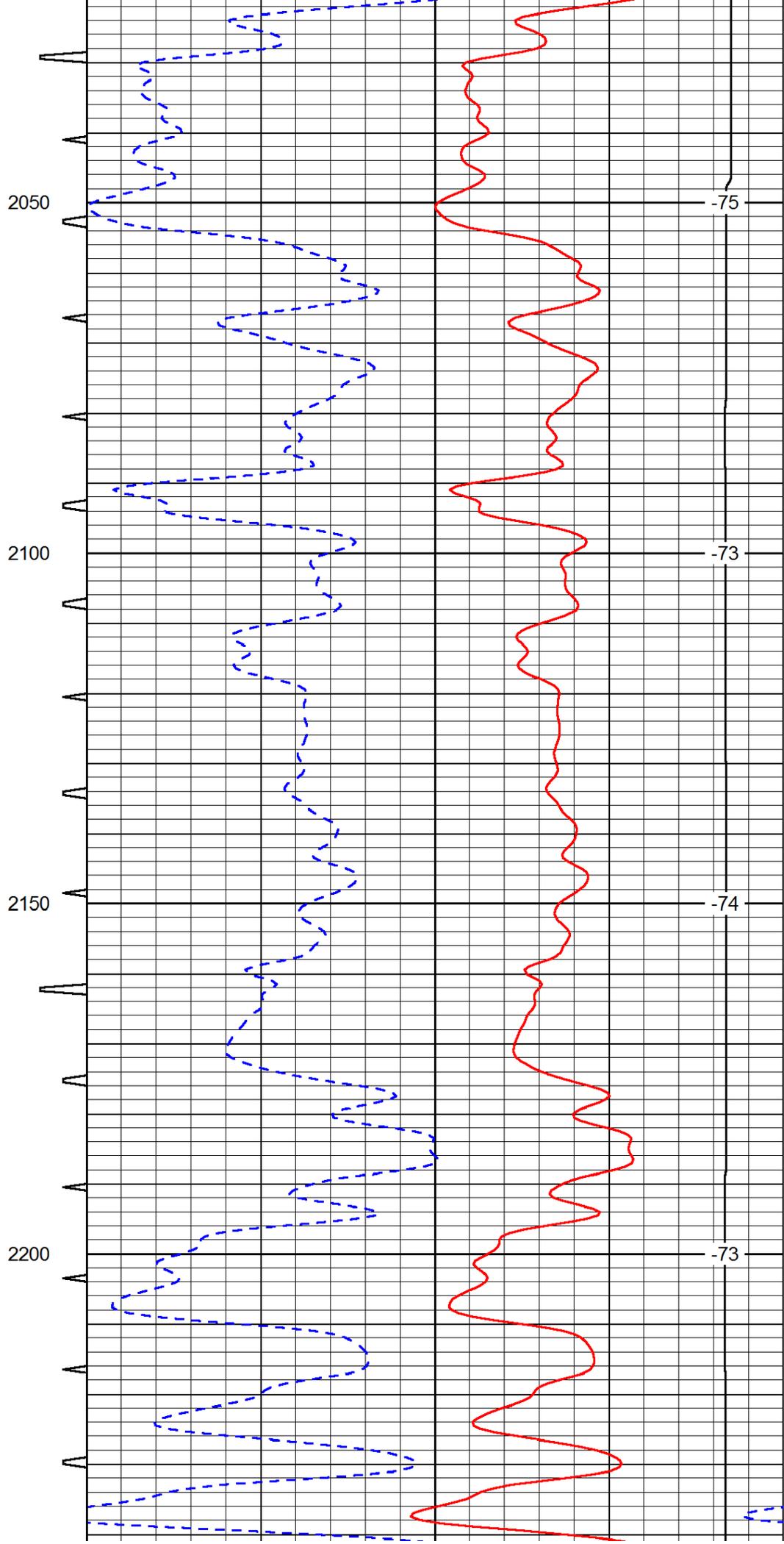
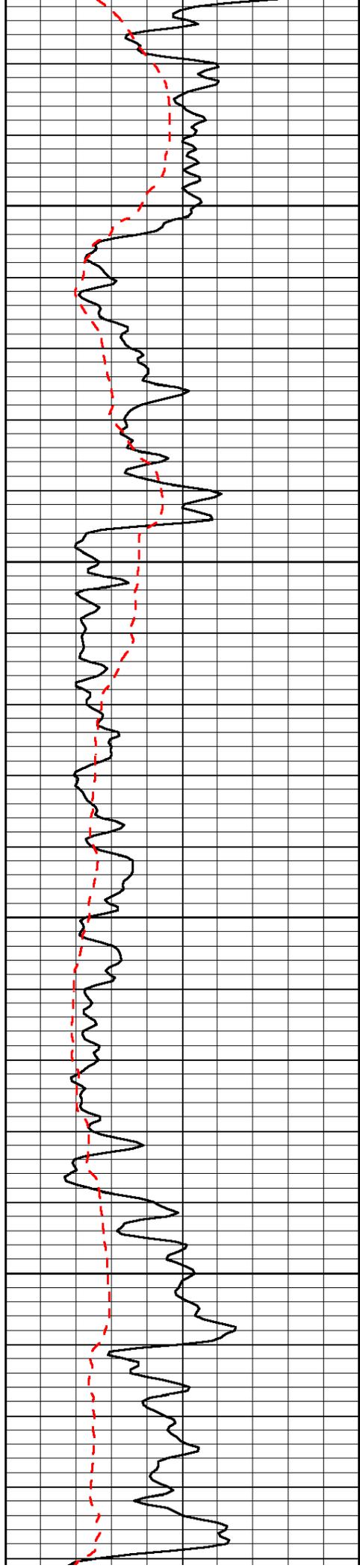


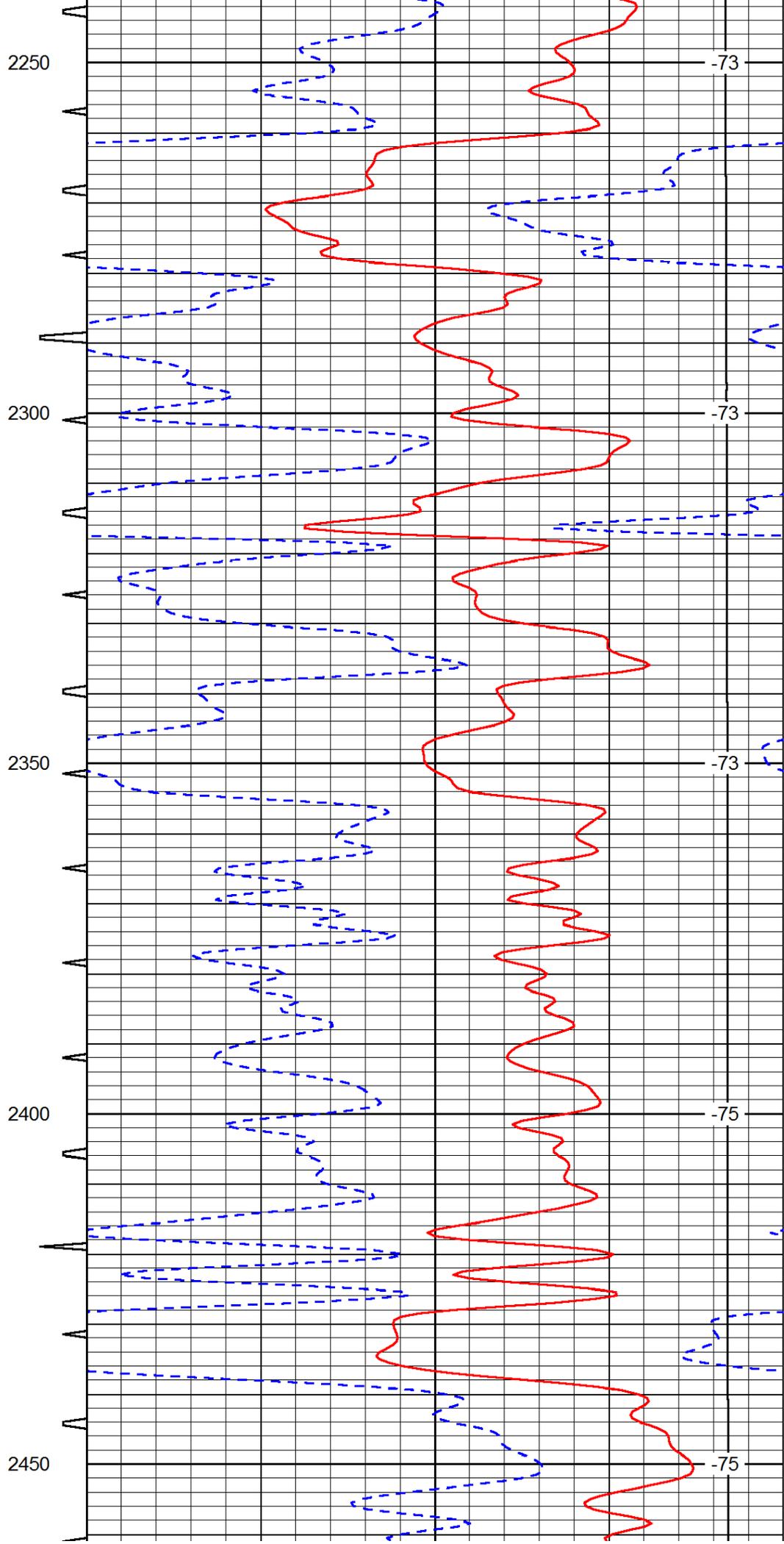
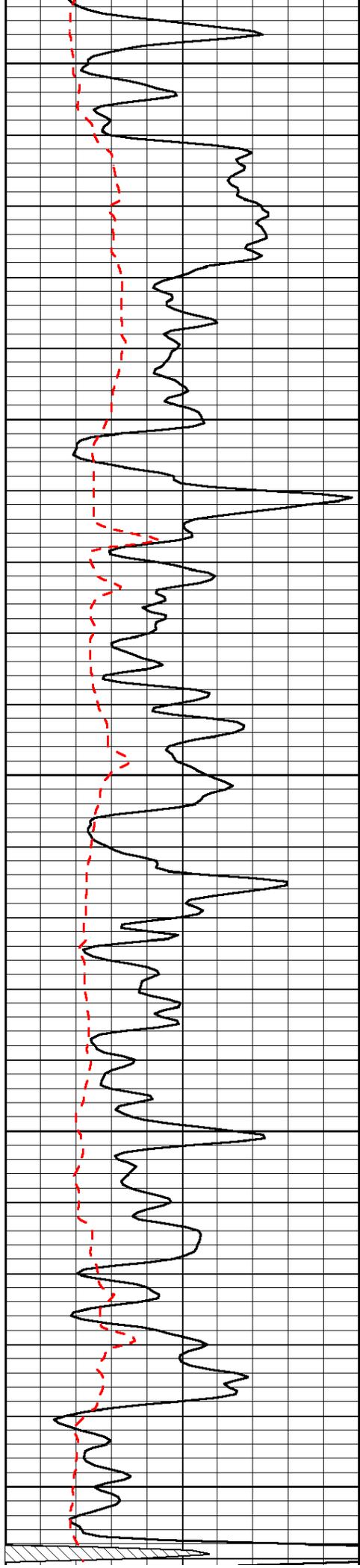


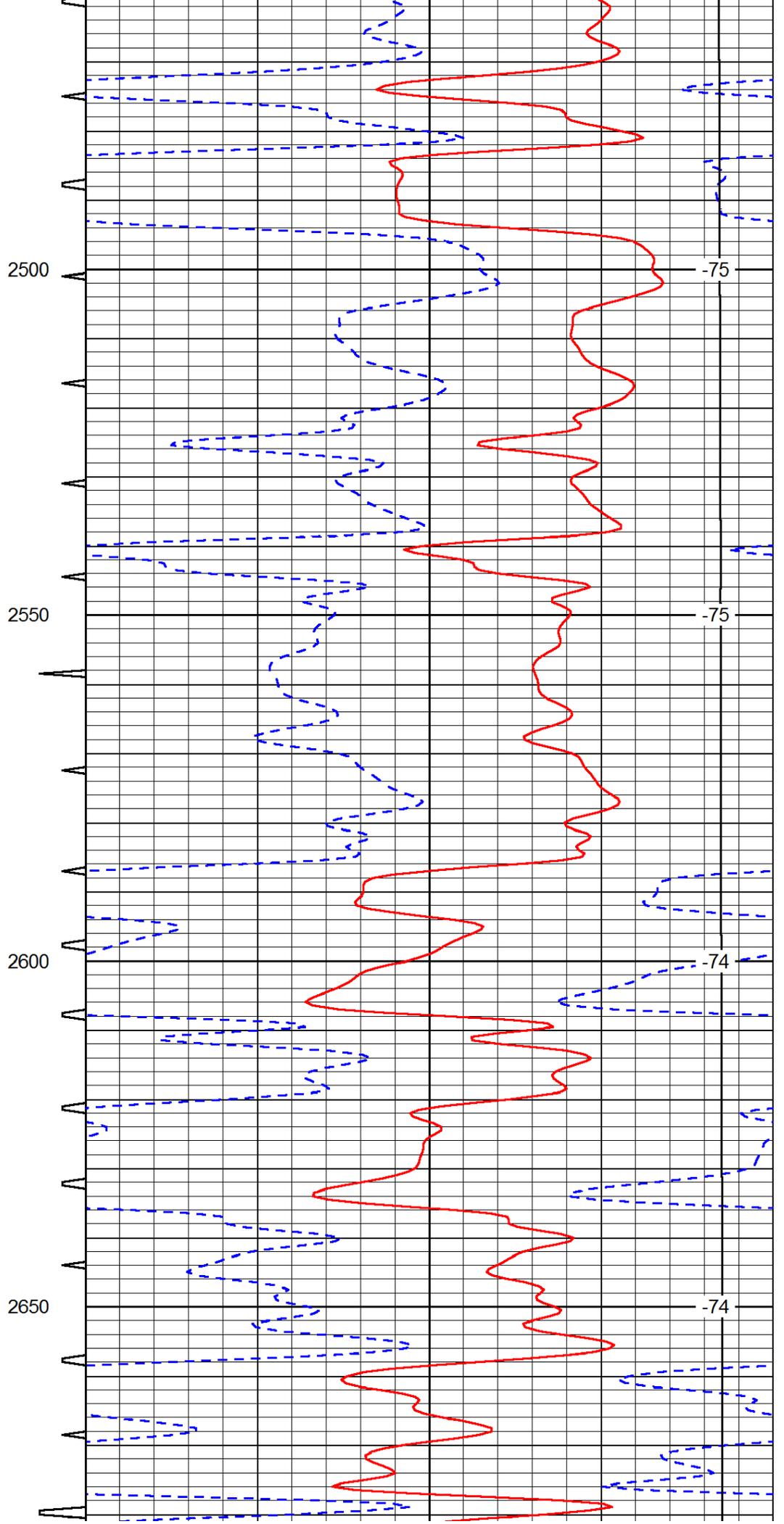
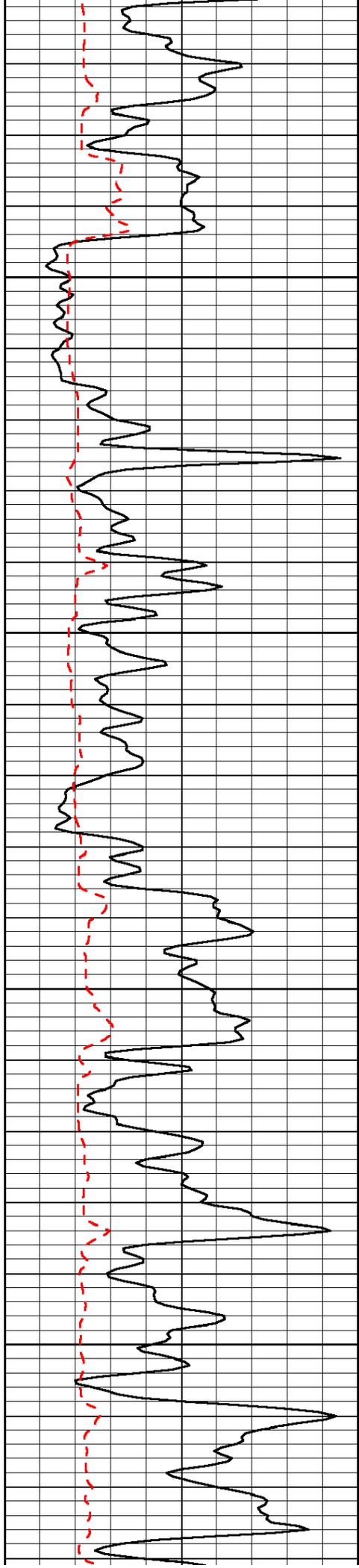


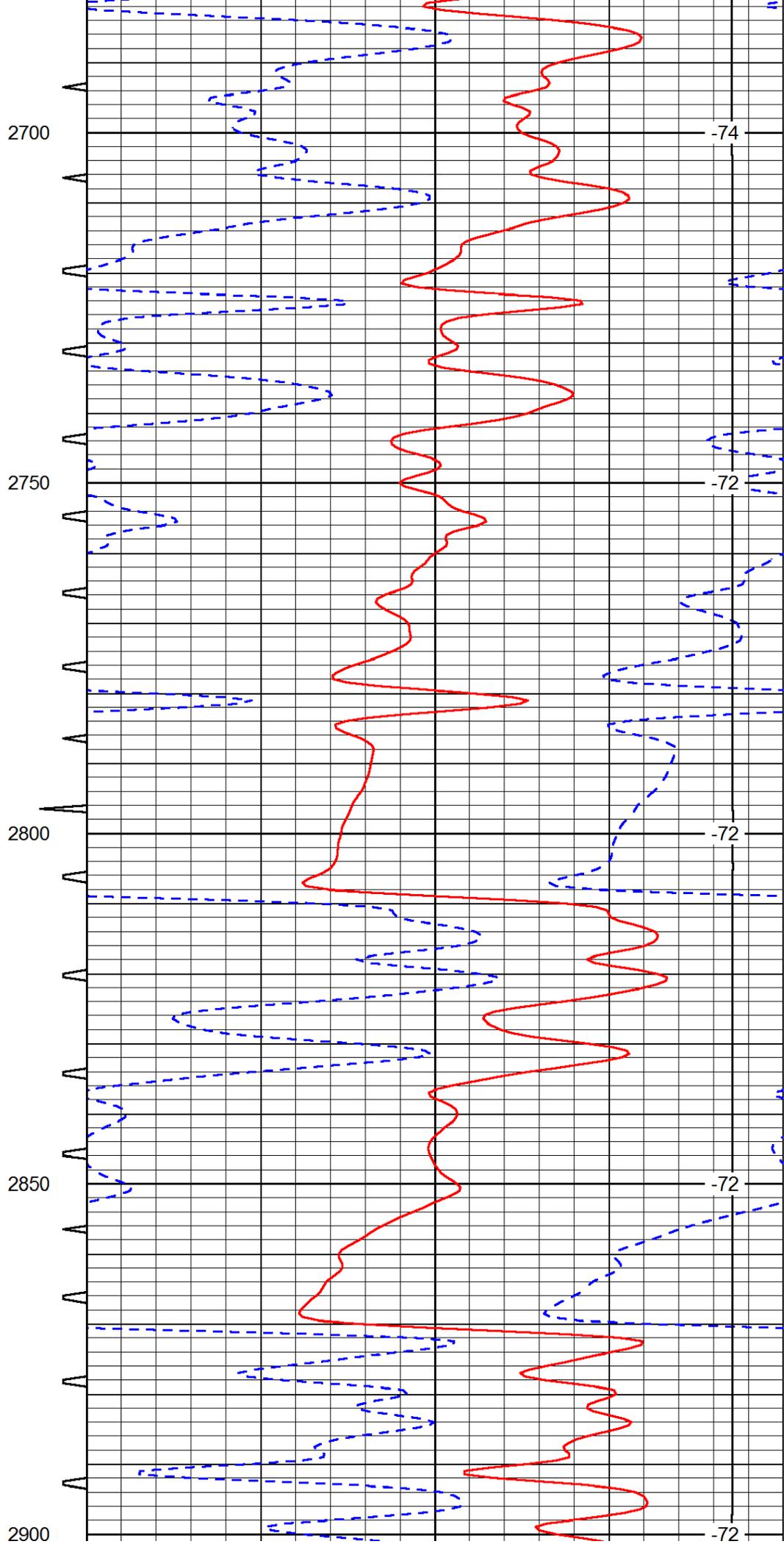
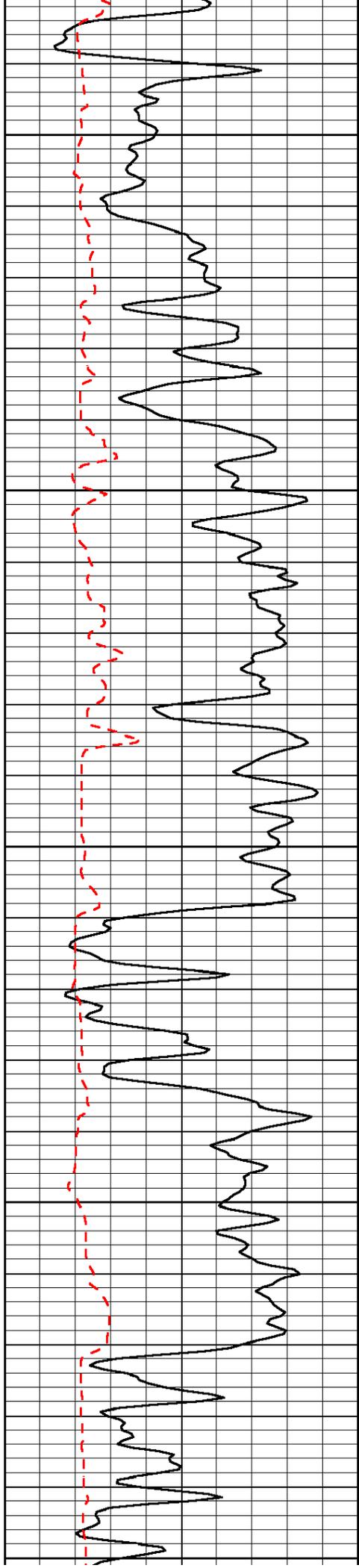


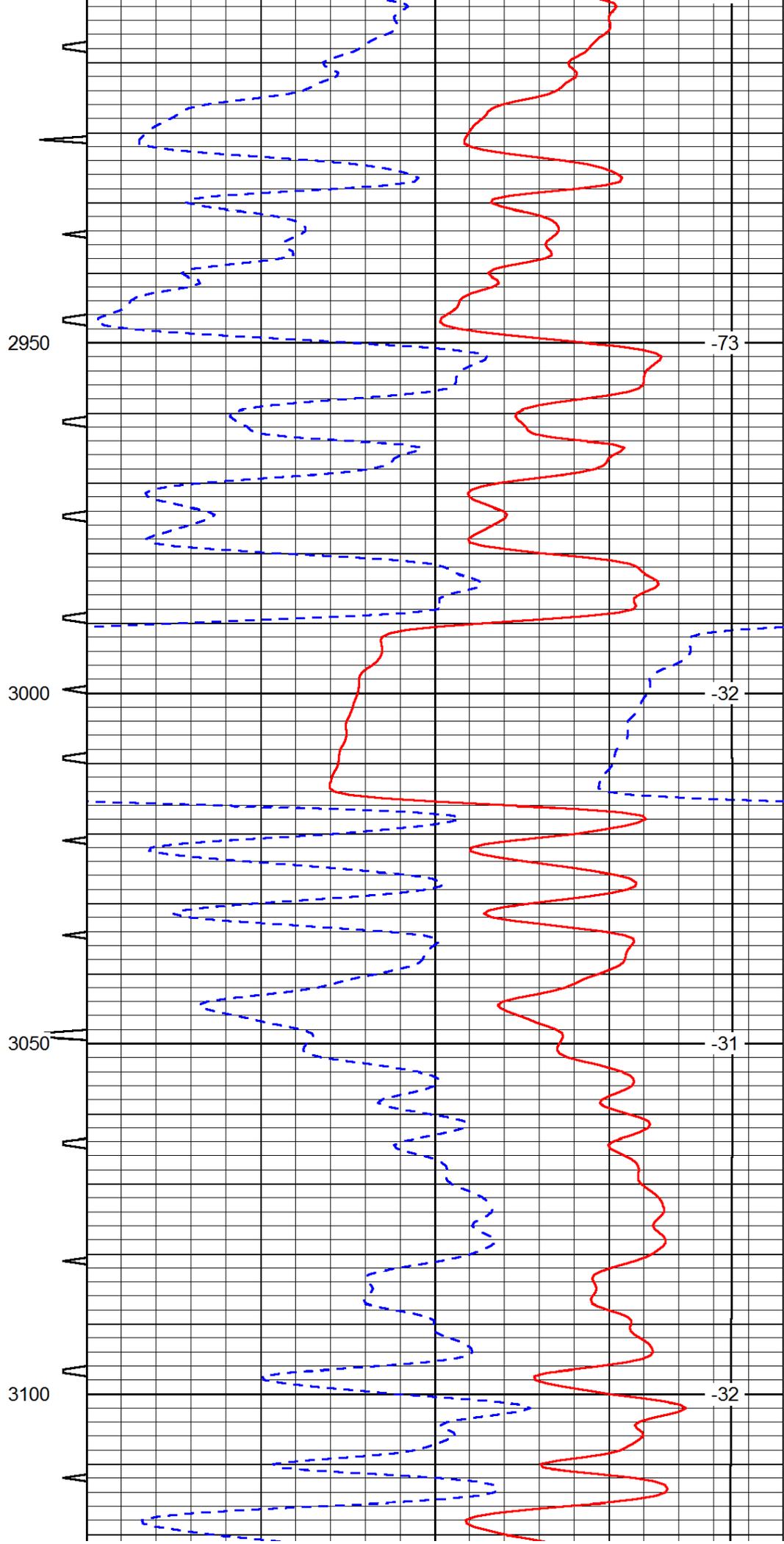
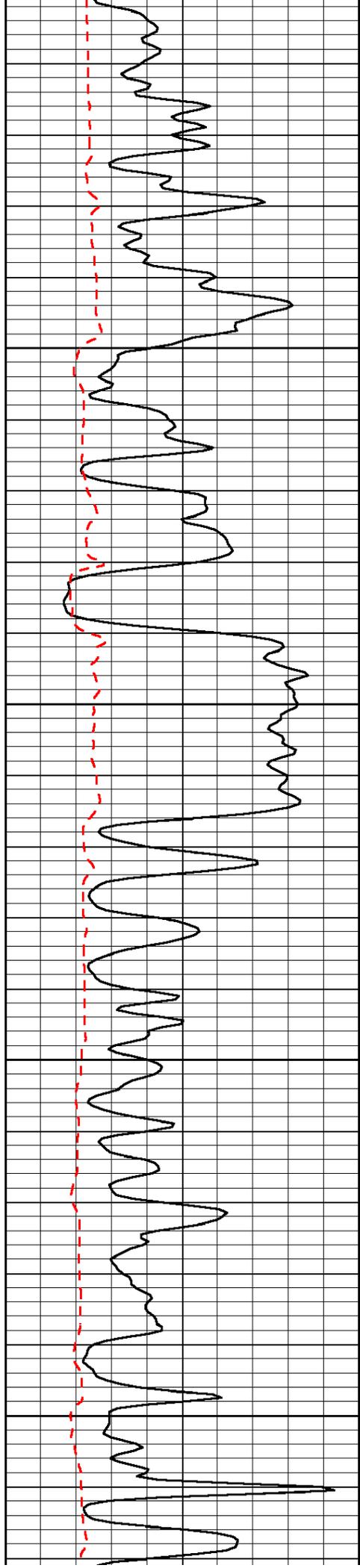


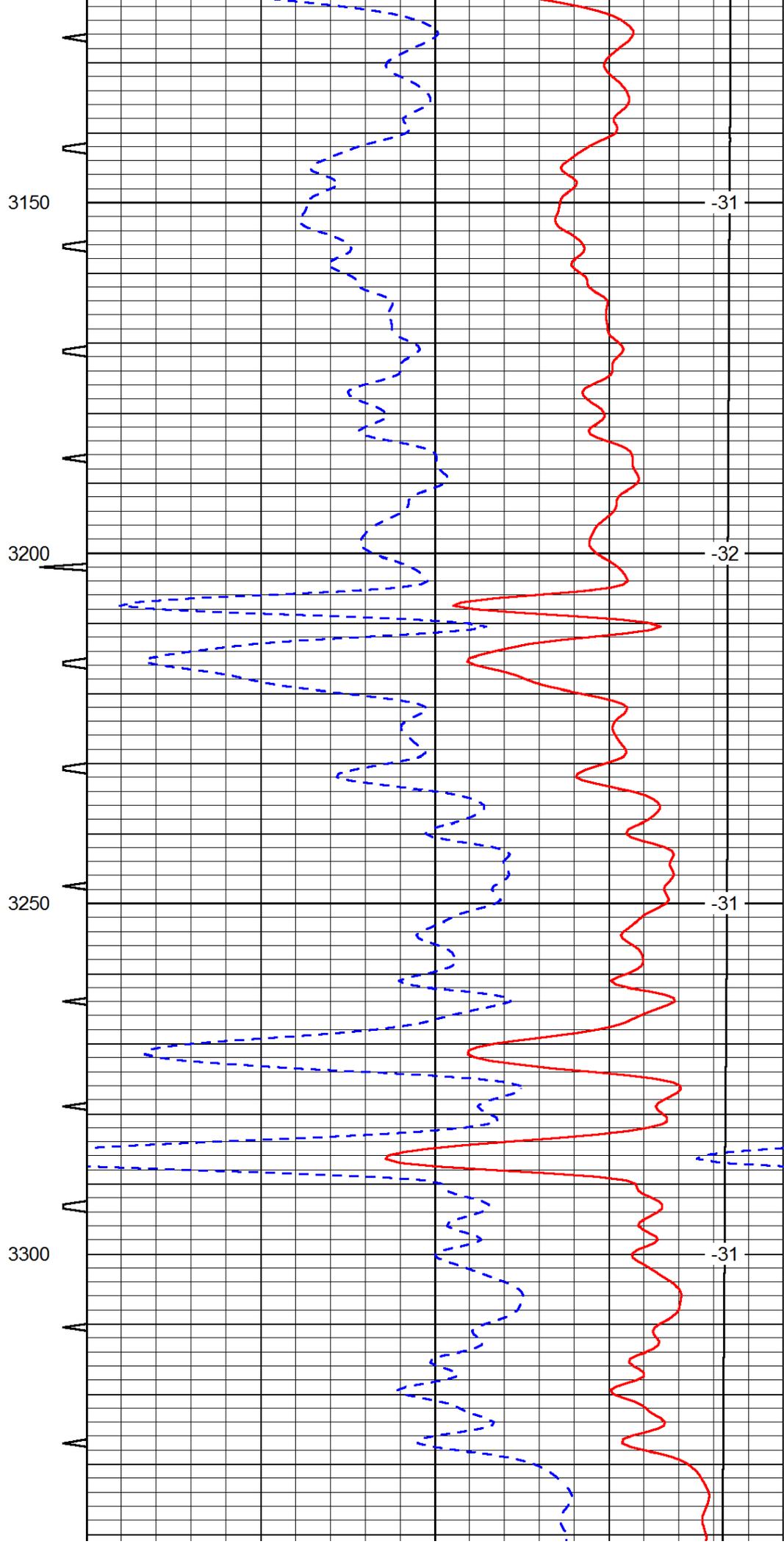
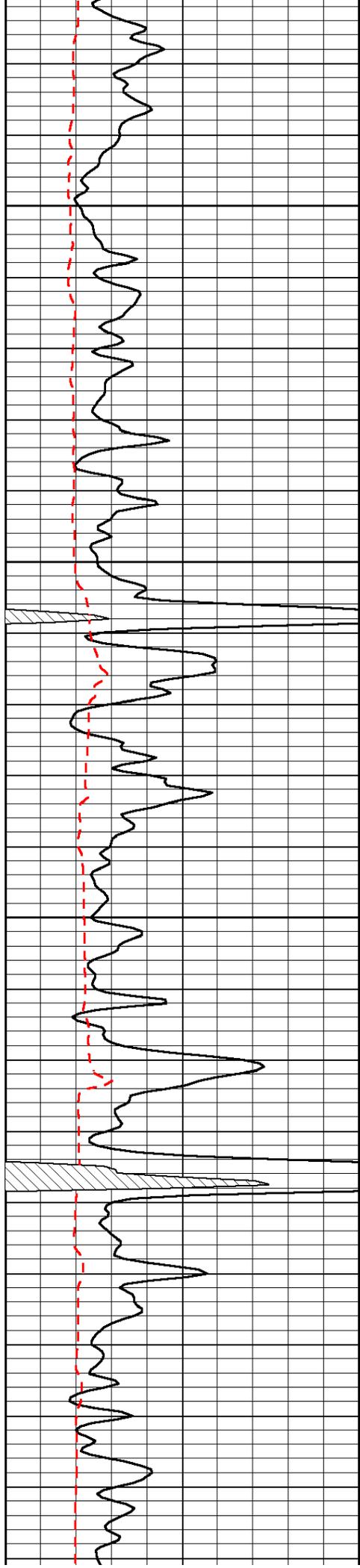


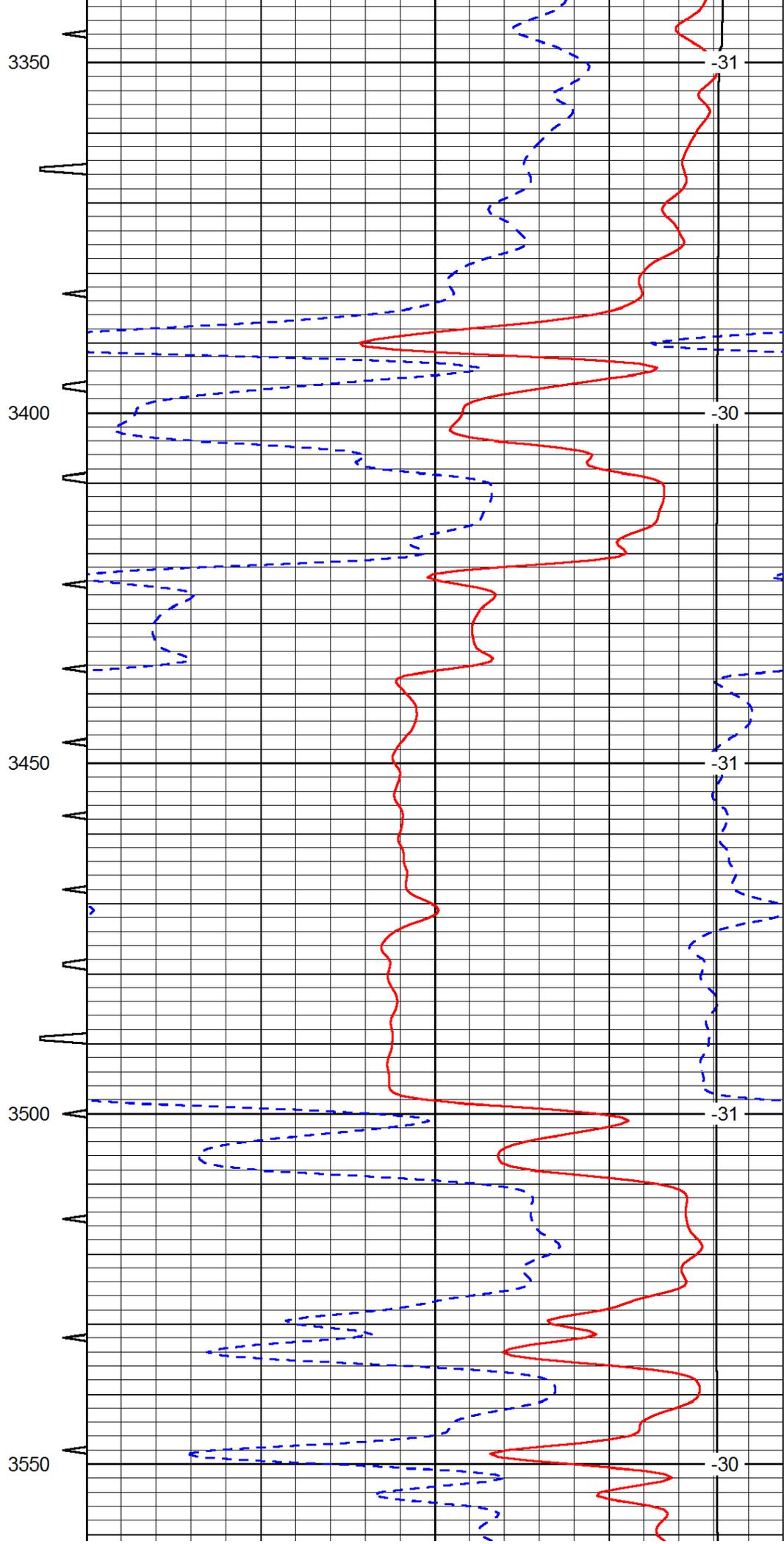
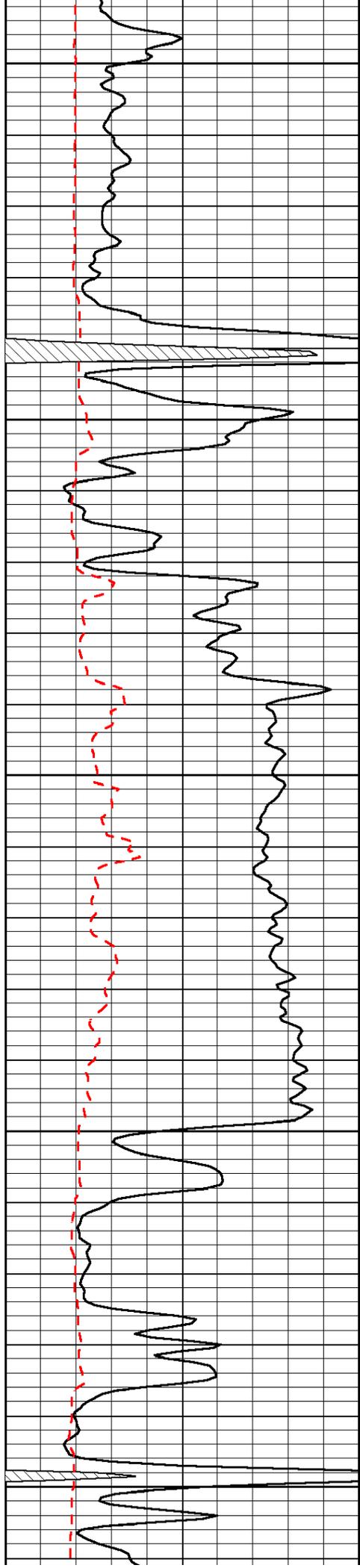


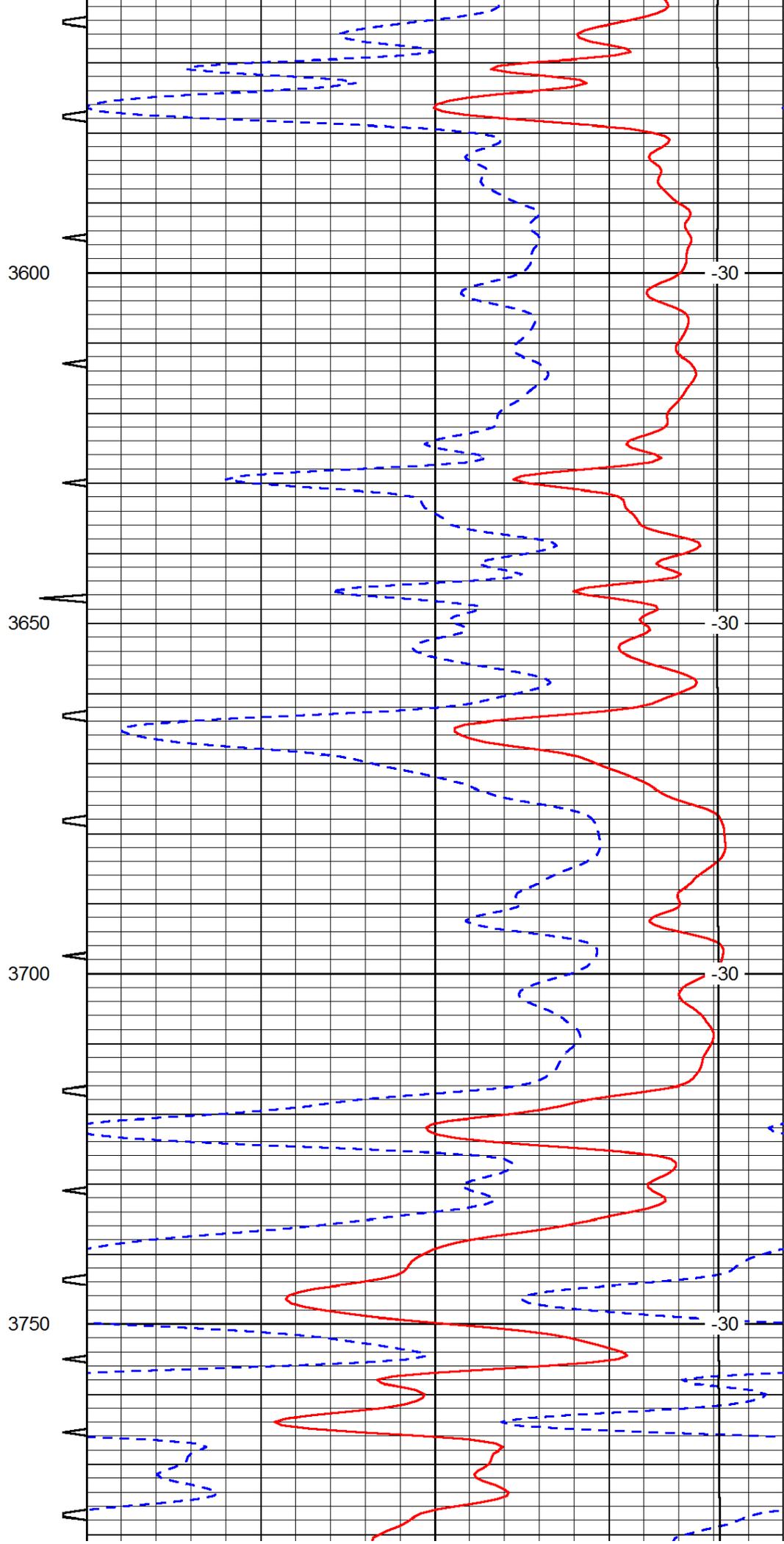
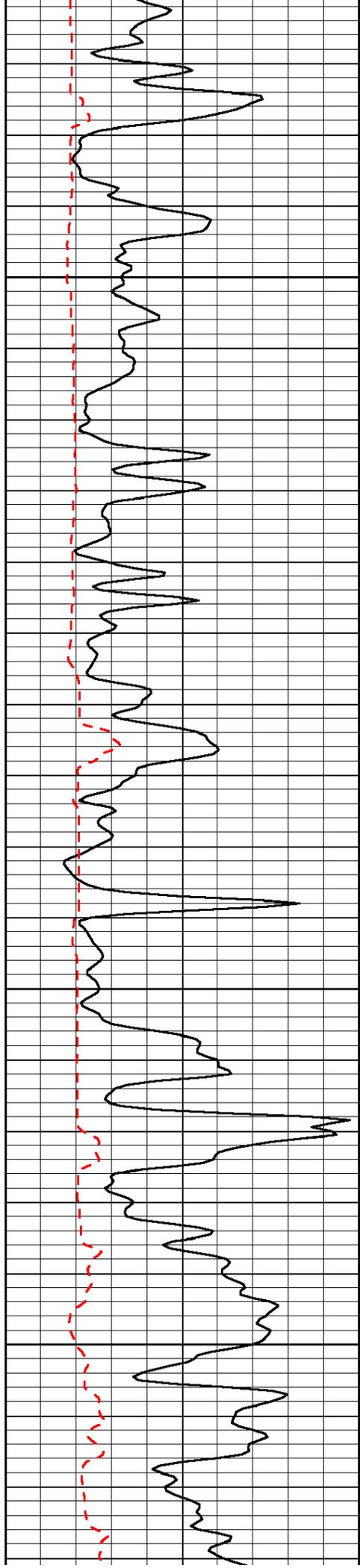


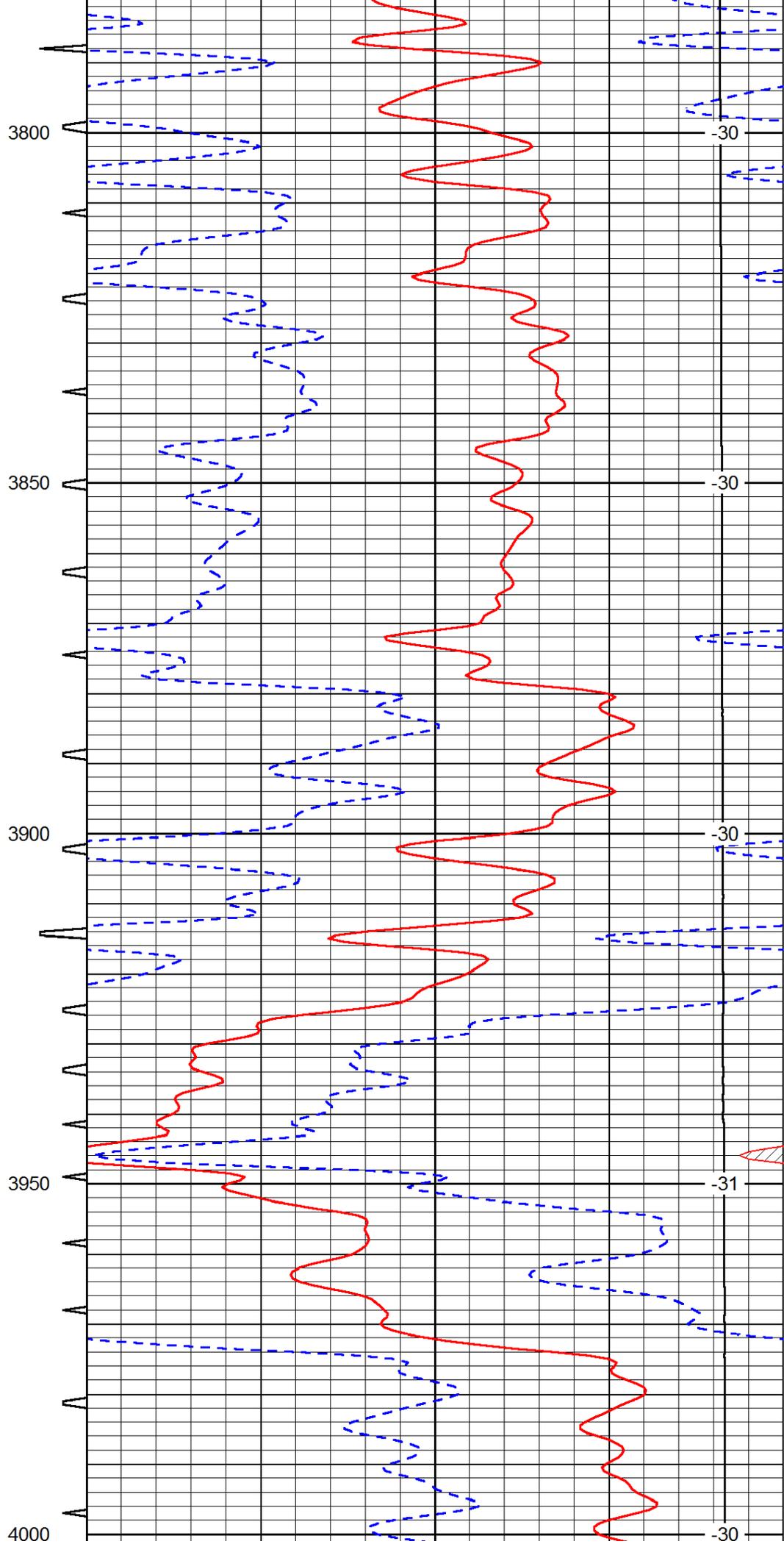
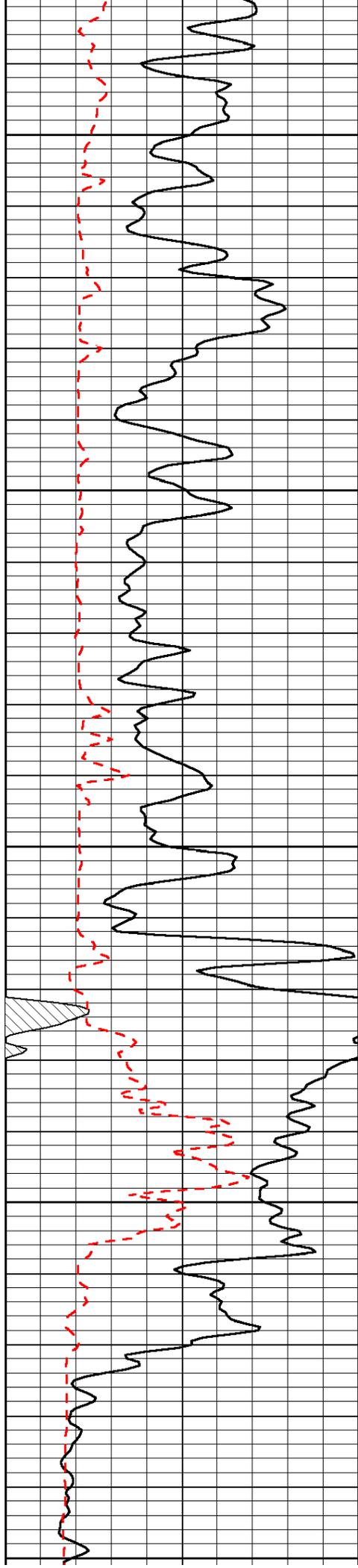


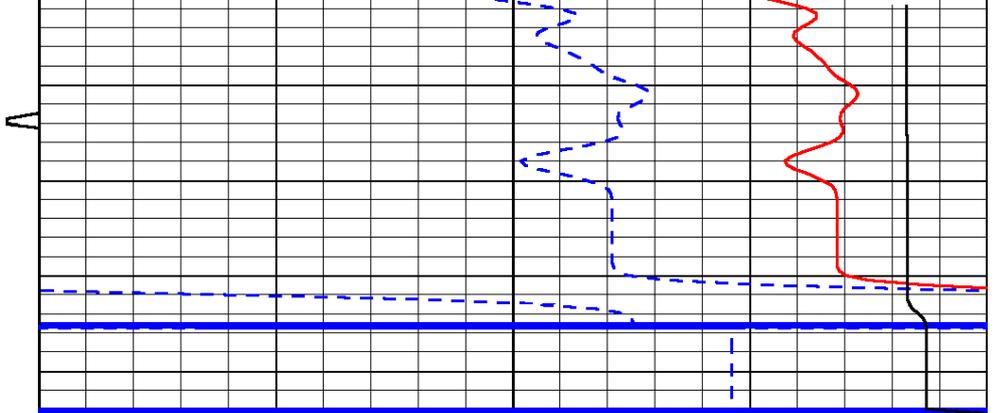
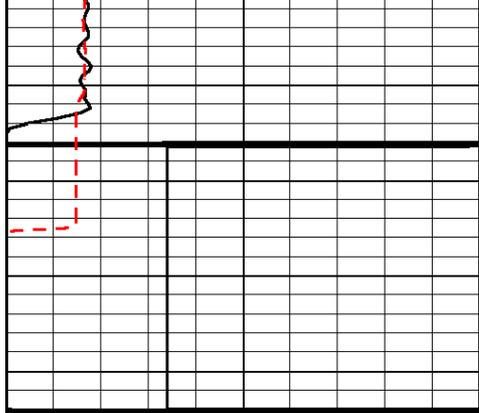












0	Gamma Ray	150	Sonic Int	140	Delta Time (usec/ft)	40	
150	Gamma Ray	300	5	0	30	SPOR	-10
6	Caliper (GAPI)	16		15000	LTEN (lb)	0	

LSPD