



Pioneer Energy Services

Borehole Compensated Sonic Log

15-163-24061-00-00

API No.

Company **American Warrior, Inc.**
 Well **Hammerschmidt #1-11**
 Field **Unnamed**
 County **Rooks** State **Kansas**

Location **780' FNL & 2105' FEL**
 Sec: **11** Twp: **10S** Rge: **19W**

Other Services
 CNL/CDL
 MEL/DIL

Permanent Datum **Ground Level** Elevation **2136**
 Log Measured From **Kelly Bushing** **10 Ft. Above Perm. Datum**
 Drilling Measured From **Kelly Bushing**

Elevation
 K.B. 2146
 D.F. _____
 G.L. 2136

Date	9/3/2012	
Run Number	Two	
Type Log	BHC Sonic	
Depth Driller	3730	
Depth Logger	3737	
Bottom Logged Interval	3726	
Top Logged Interval	200	
Type Fluid In Hole	Chemical	
Salinity, PPM CL	3900	
Density	9.3	
Level	Full	
Max. Rec. Temp. F	115	
Operating Rig Time	5 Hours	
Equipment -- Location	91 Hays	
Recorded By	D. Schmidt	
Witnessed By	Jeff Lawler	

Borehole Record				Casing Record			
Run No.	Bit	From	To	Size	Wgt.	From	To
1	12.25	00	212	8.625	24#	00	212
2	7.875	212	3730				

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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.

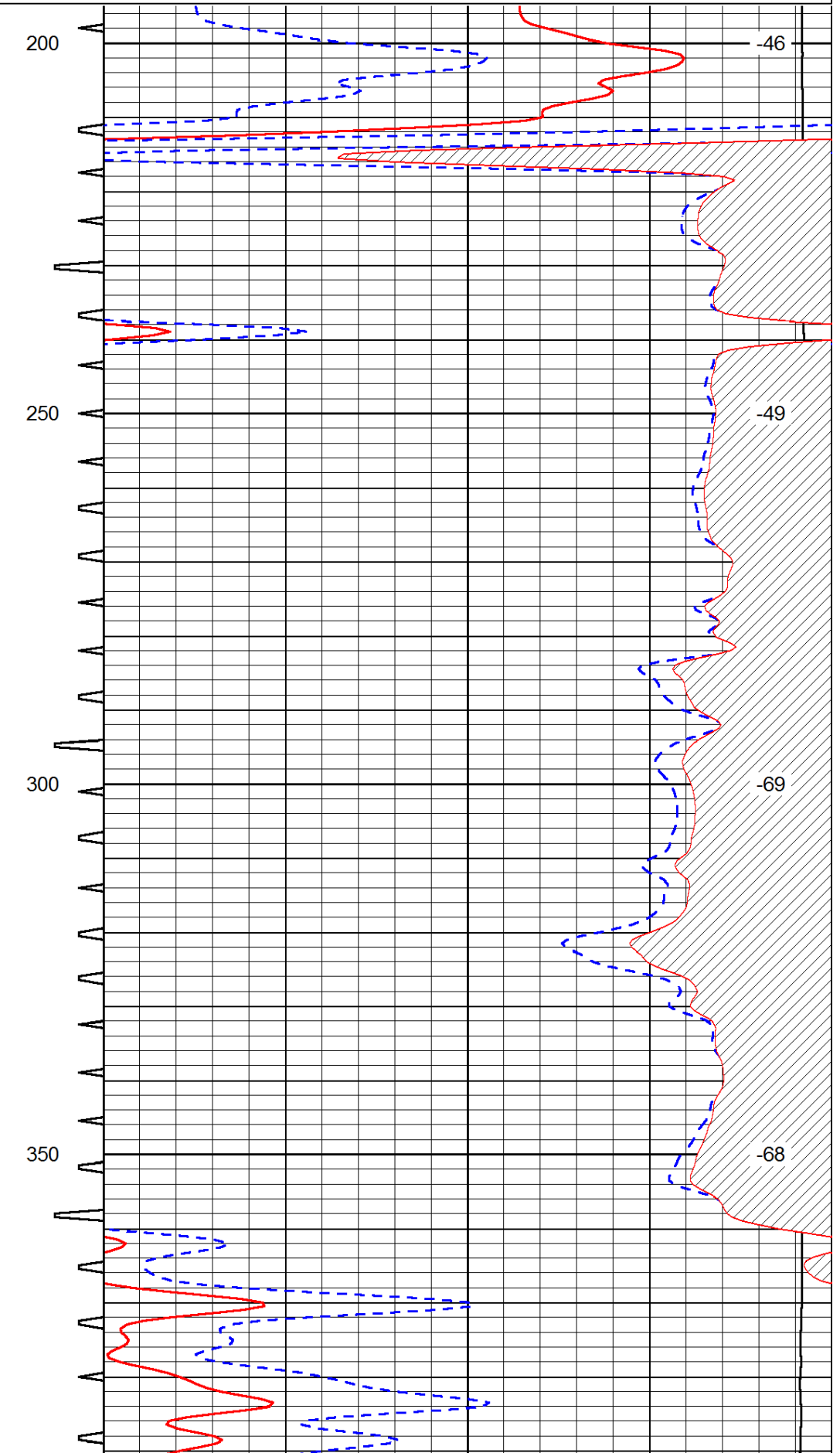
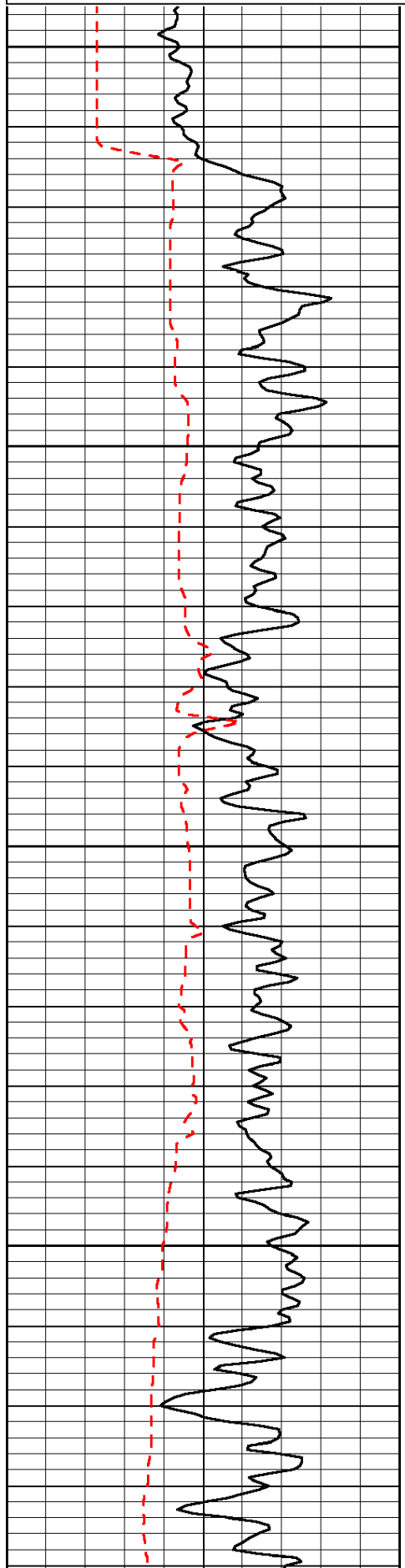
Comments

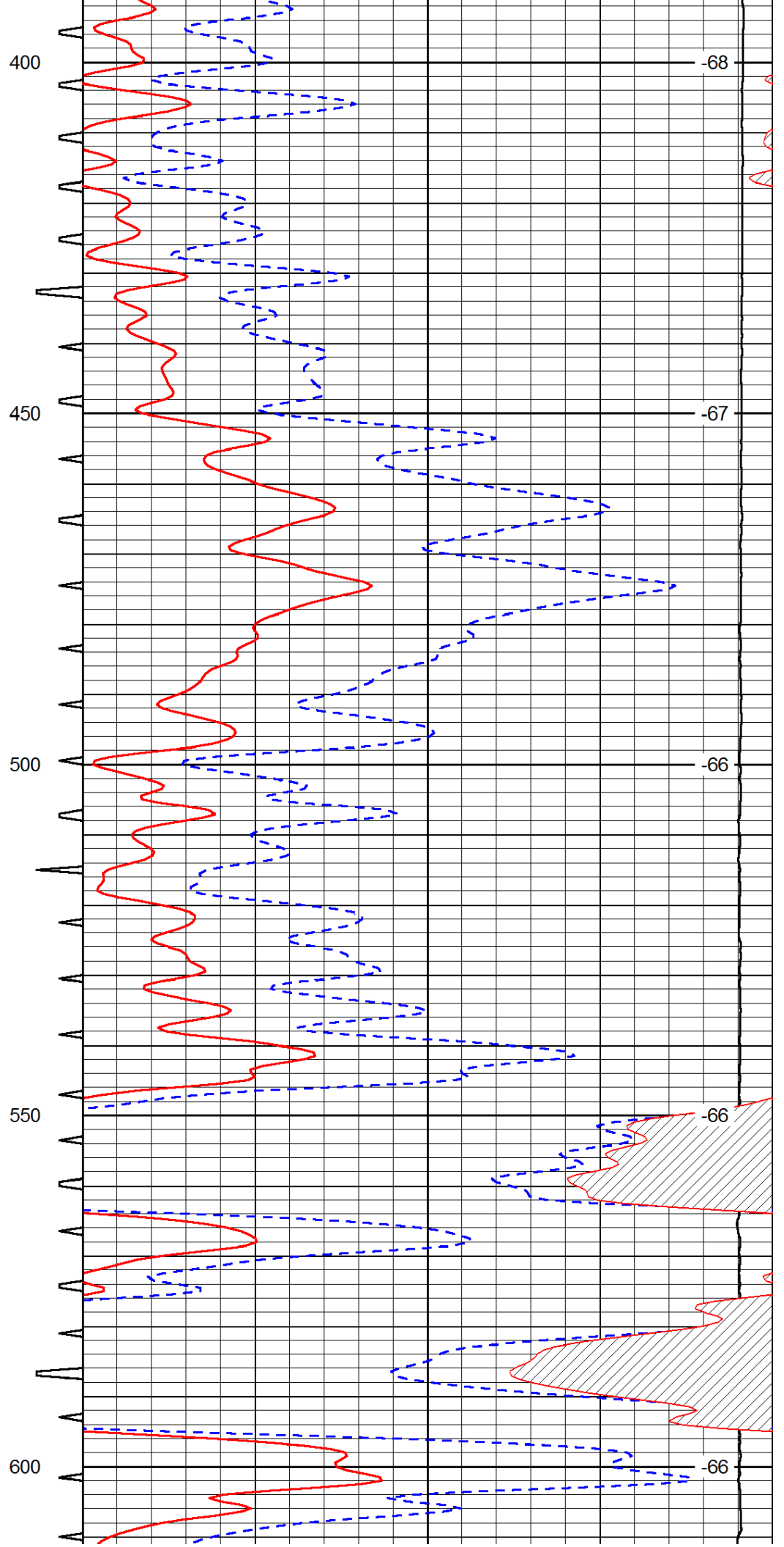
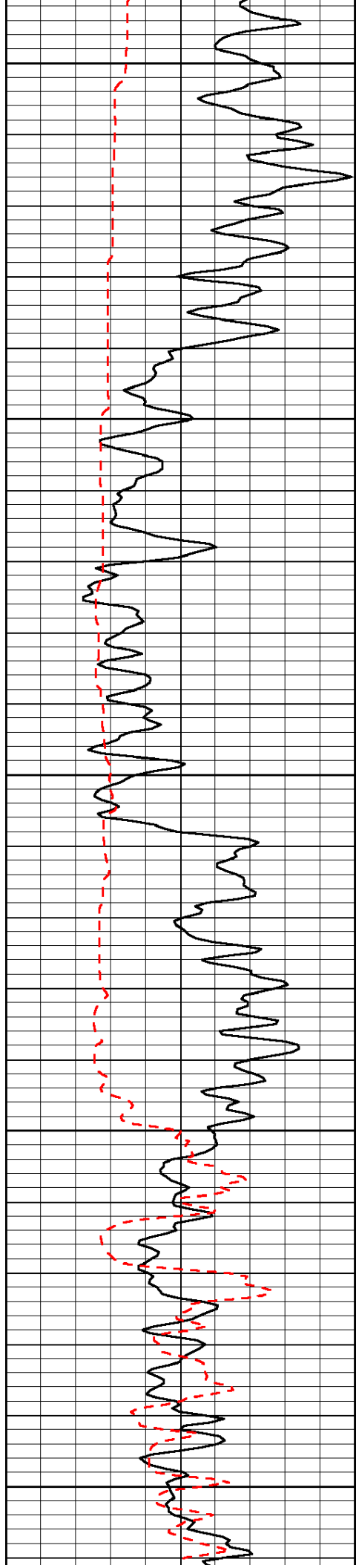
Thank you for using Pioneer Energy Services
www.pioneerenergy.com
 785 625 3858
 Plainville (Hwy 183 & 18),
 5 1/2 West to 12 Rd, 2 South,
 West into

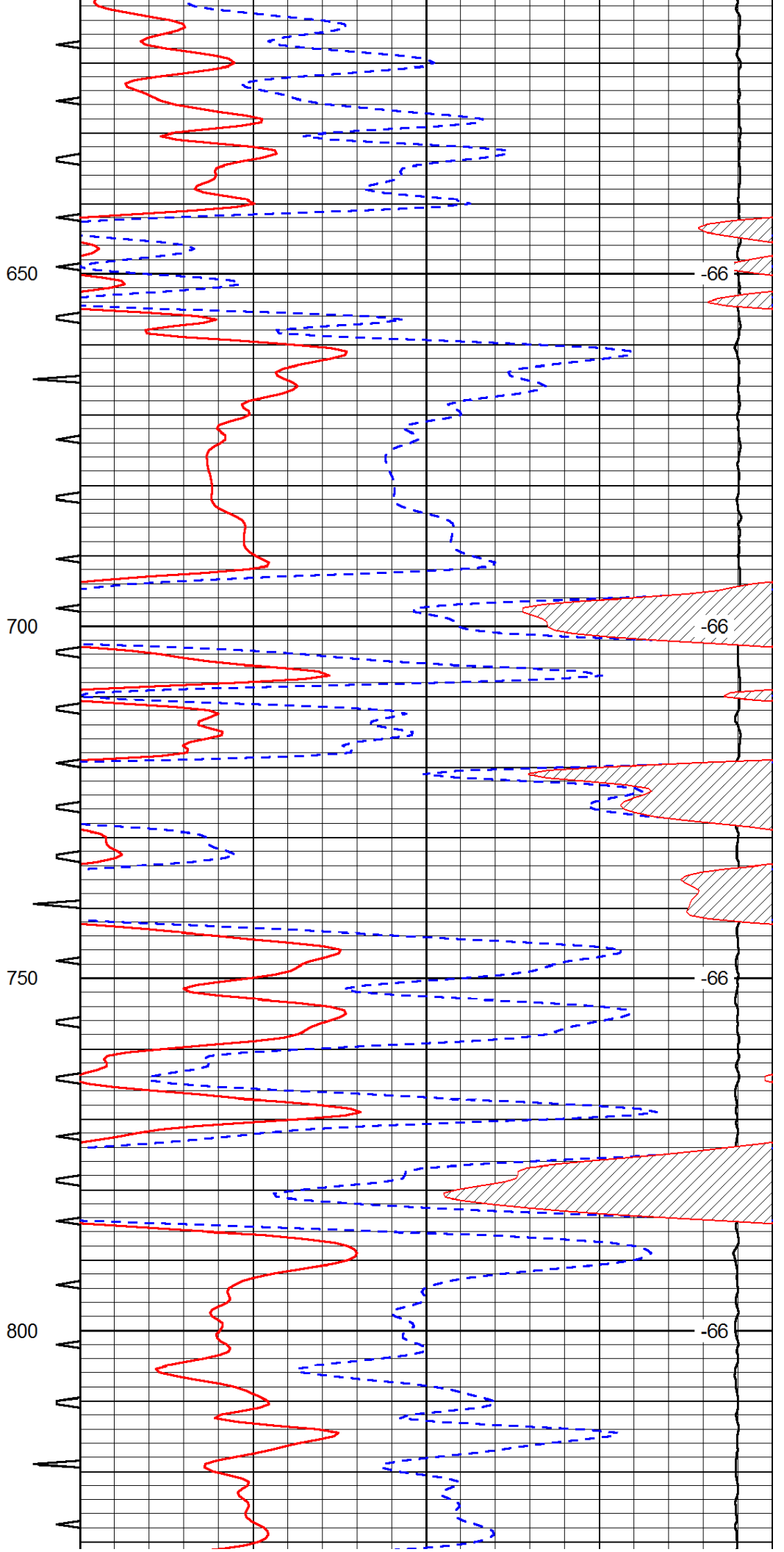
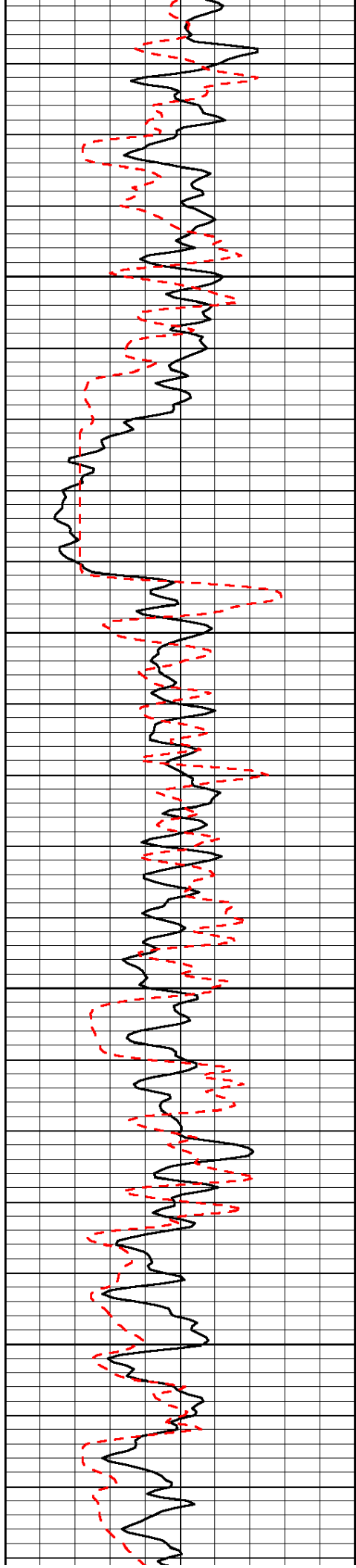
Database File: c:\warrior\data\amwar_hammerschmidt #1-11\amwar_090312hd.db
 Dataset Pathname: dil/awstack
 Presentation Format: sonic
 Dataset Creation: Mon Sep 03 21:45:26 2012
 Charted by: Depth in Feet scaled 1:240

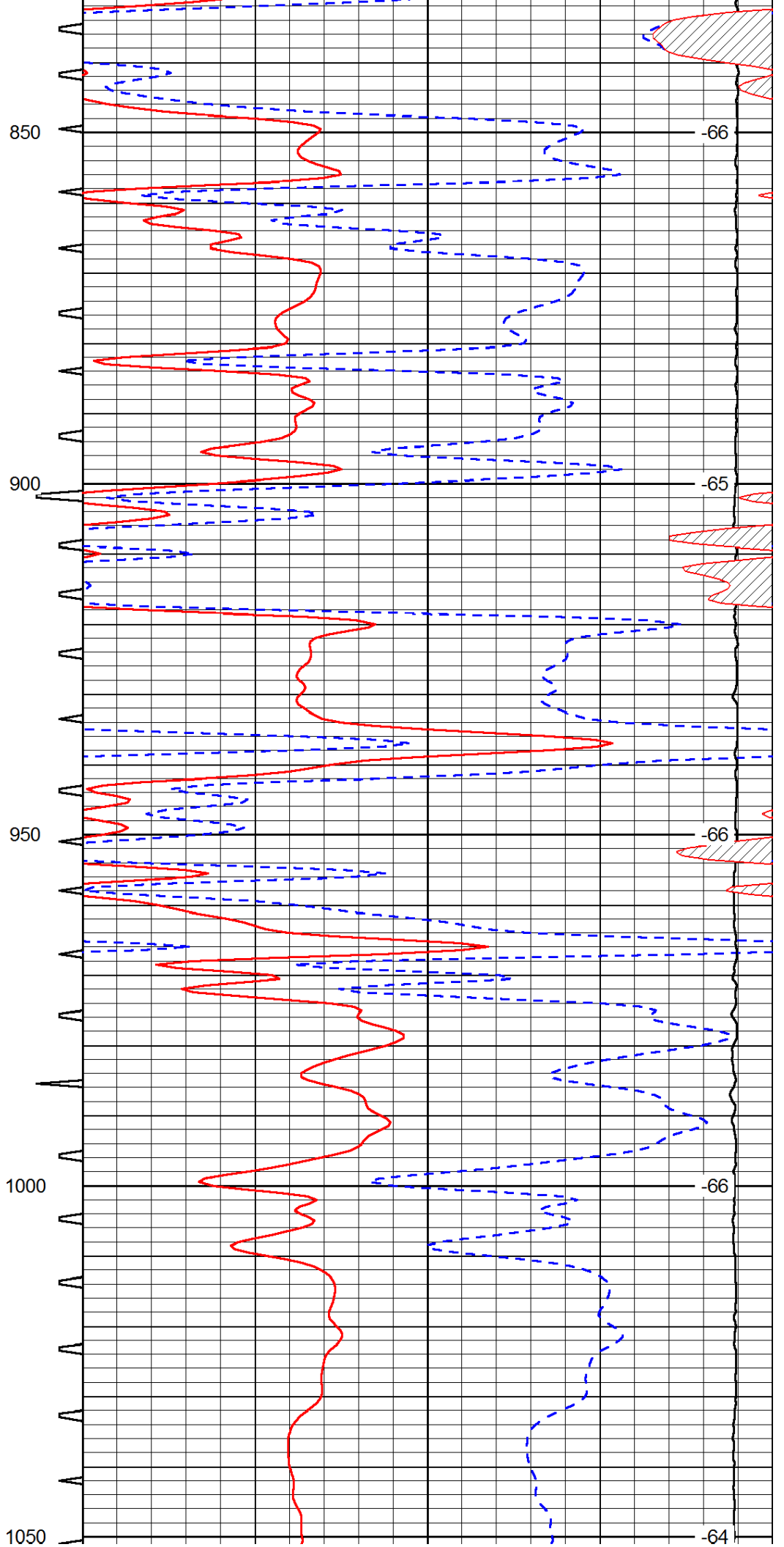
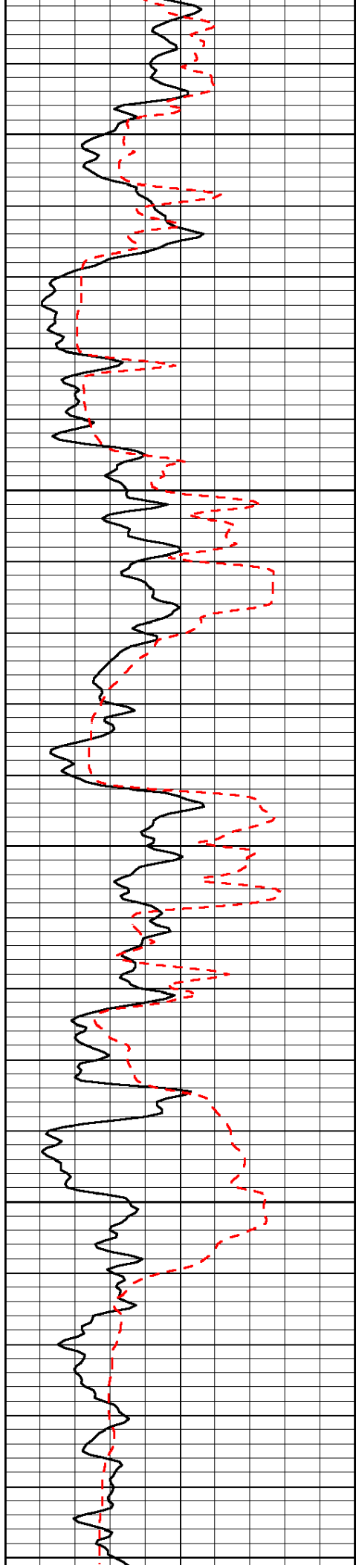
0	Gamma Ray	150	Sonic Int	140	Delta Time (usec/ft)	40
150	Gamma Ray	300	5	0	SPOR	-10
6	Caliper (GAPI)	16		15000	LTEN (lb)	0

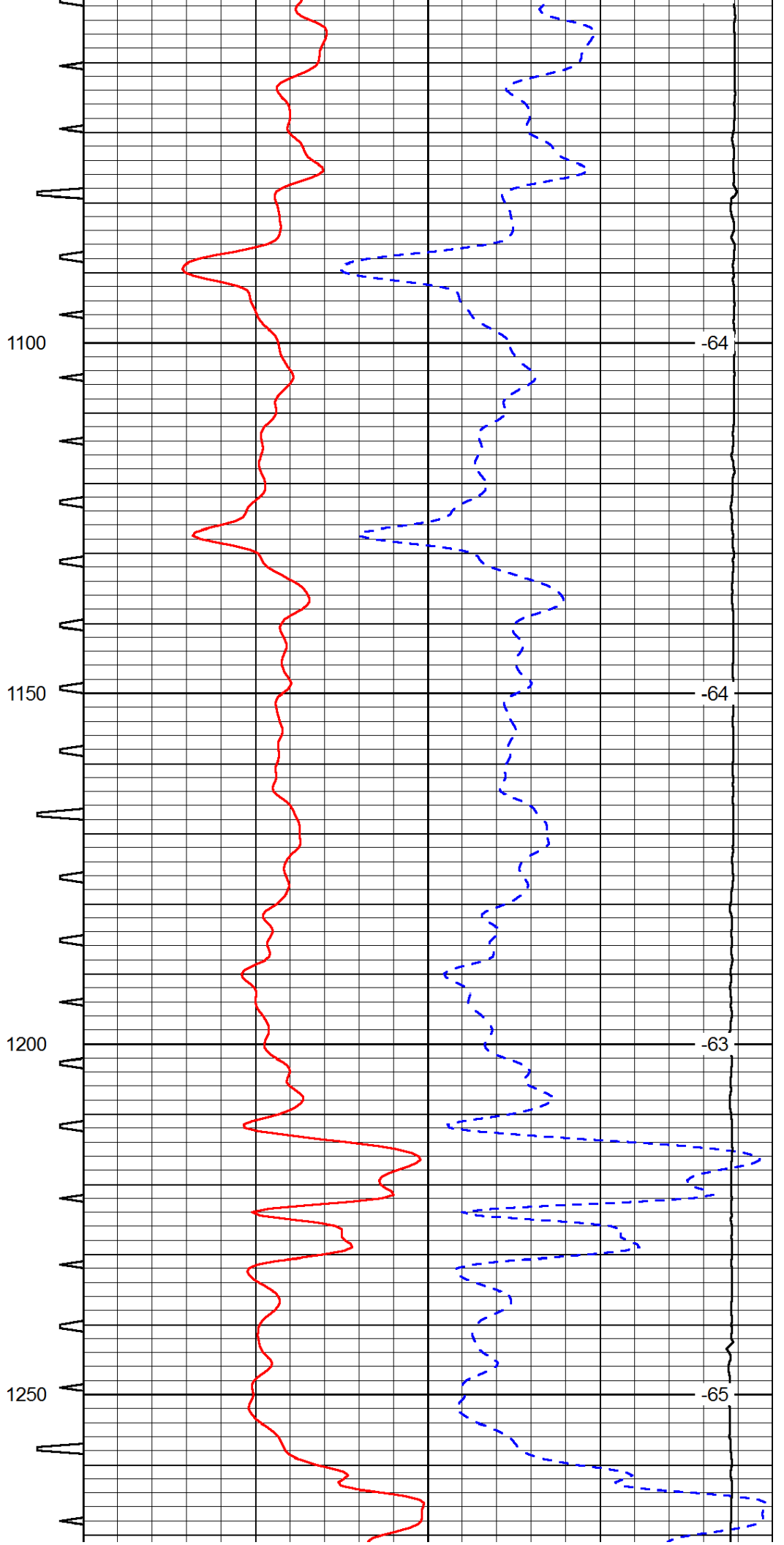
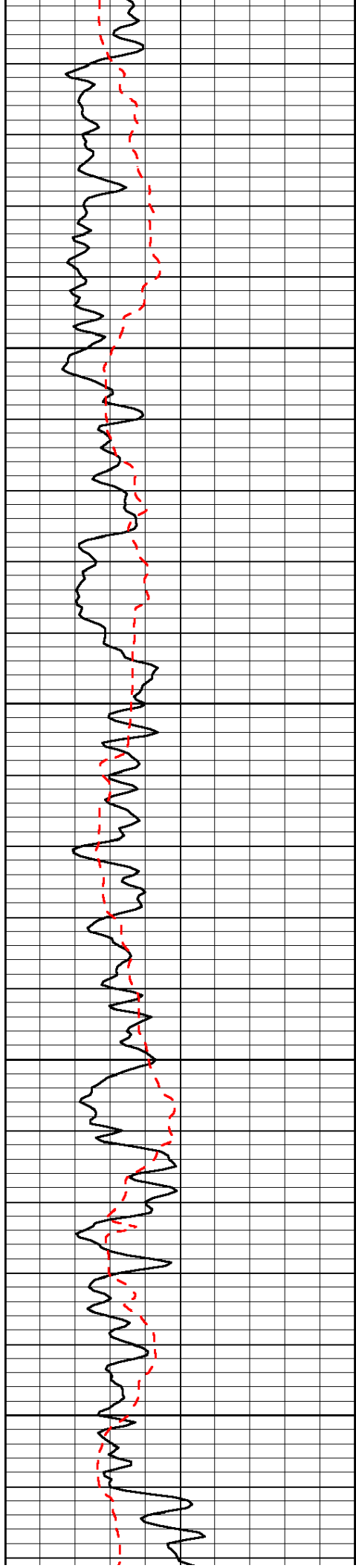
LSPD

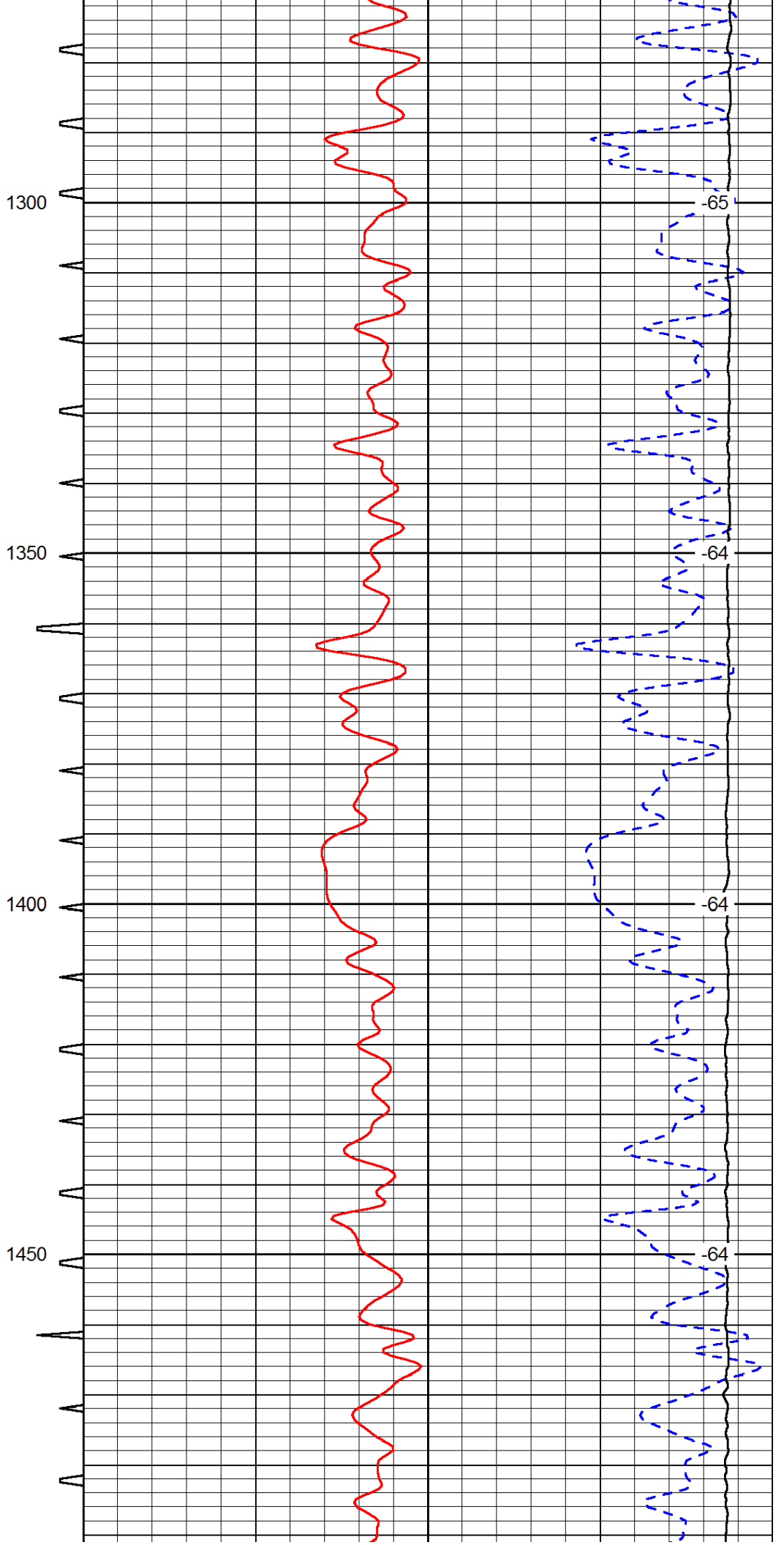
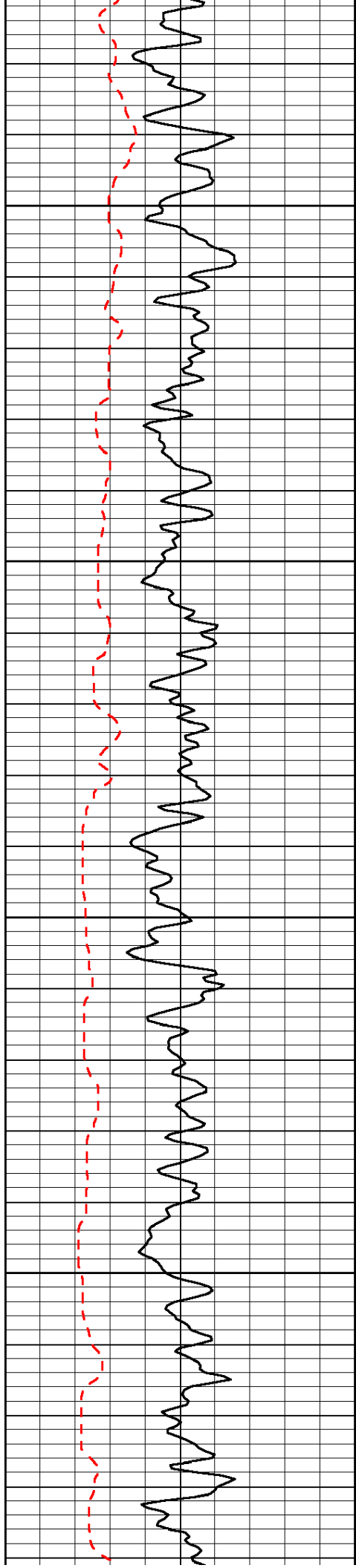


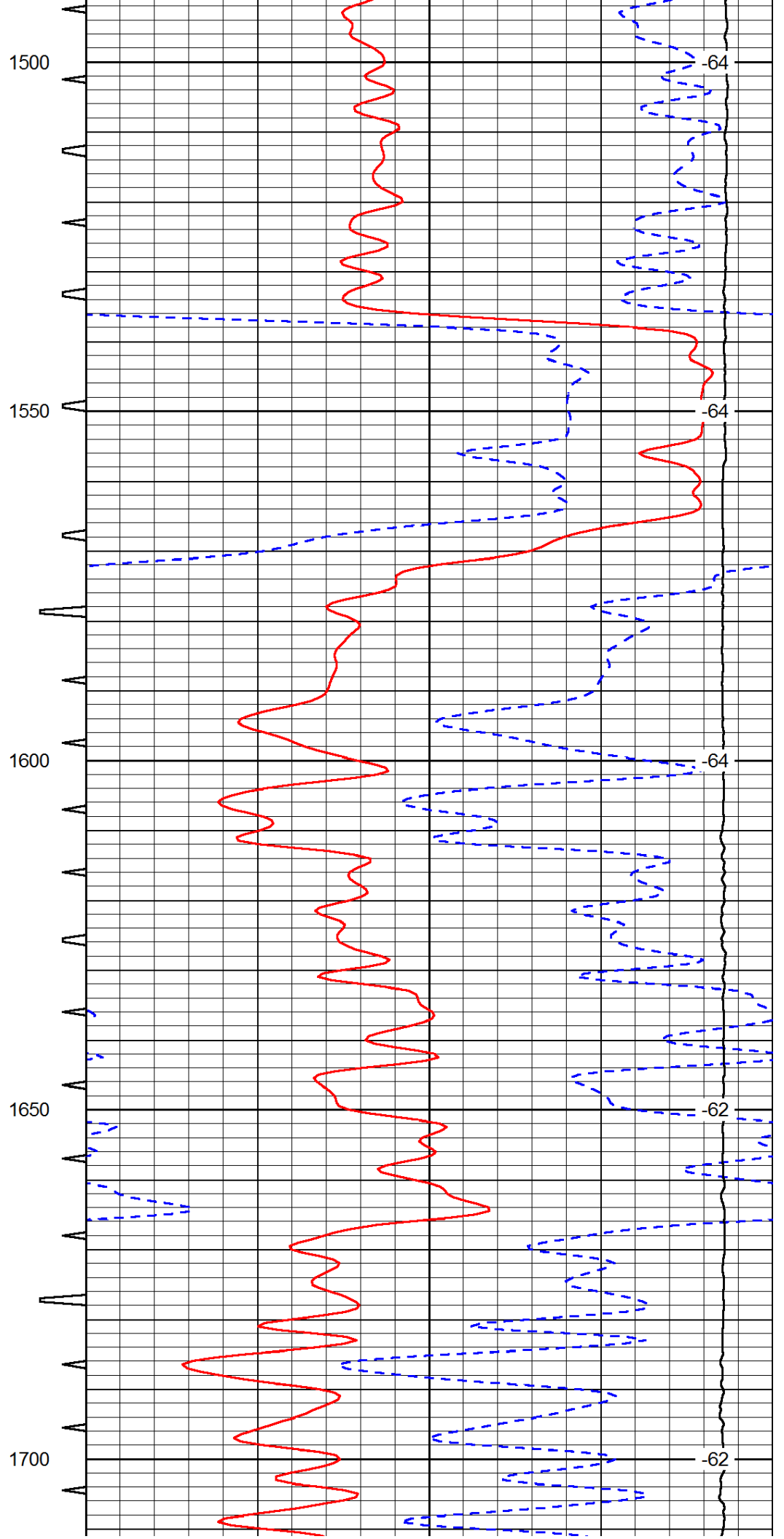
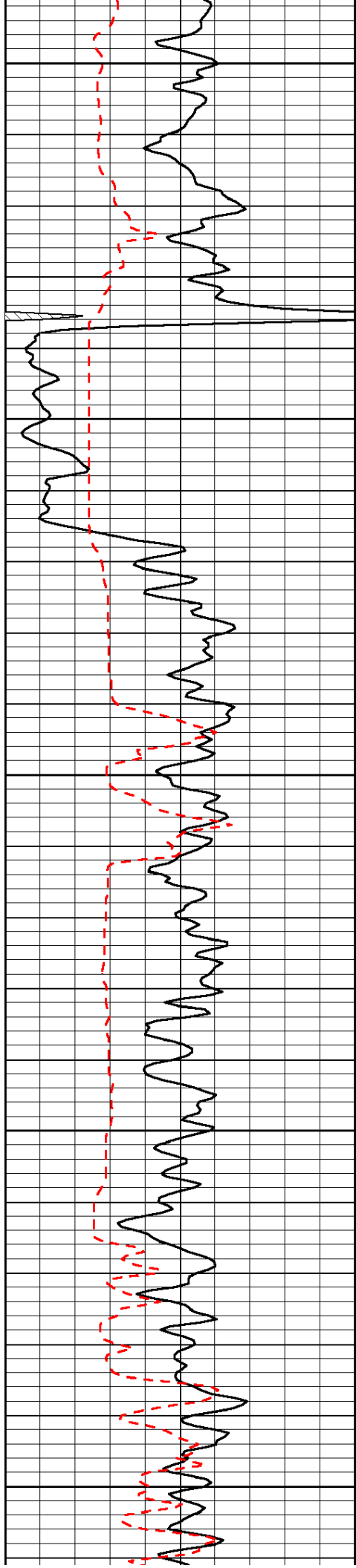


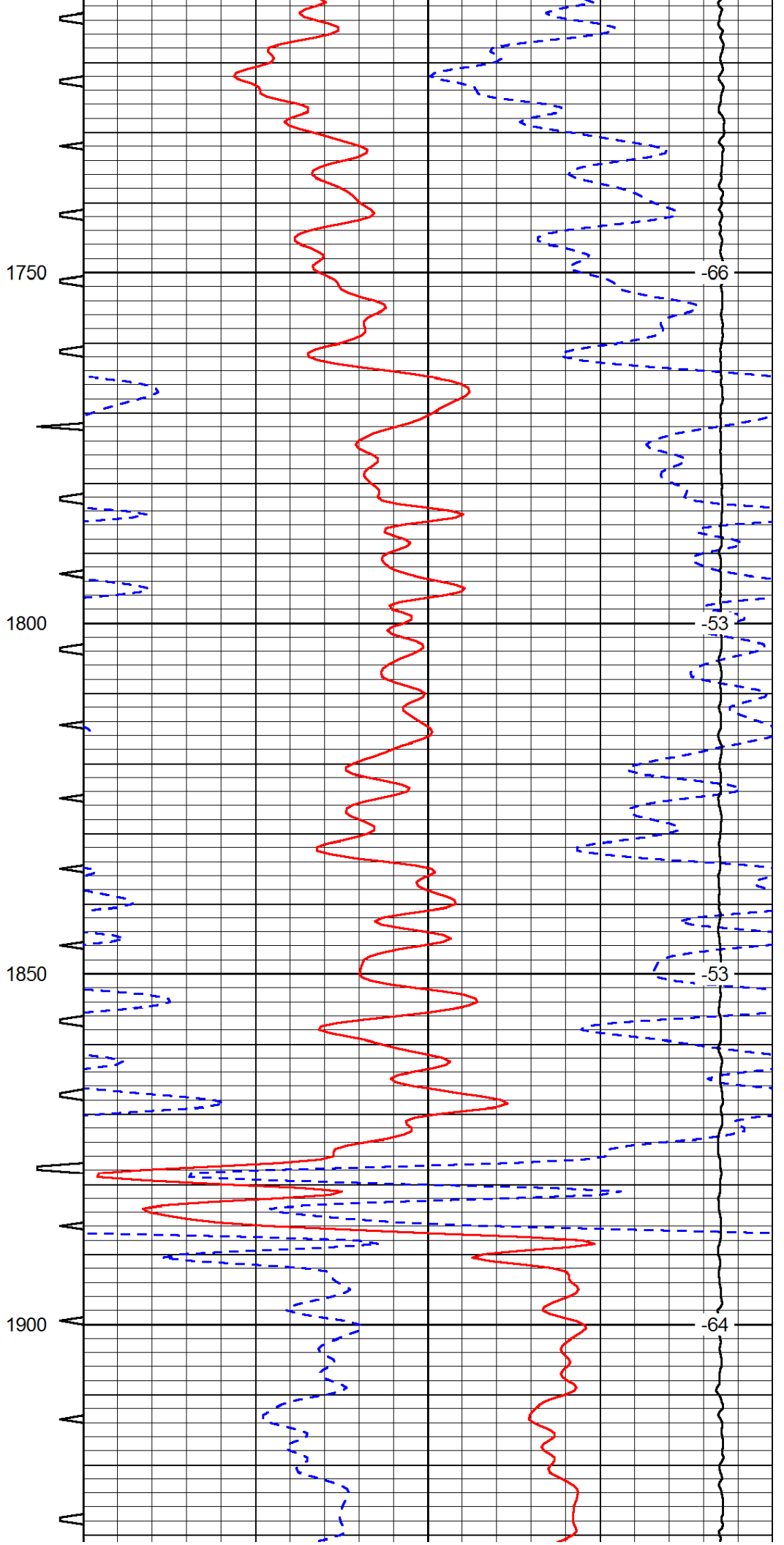
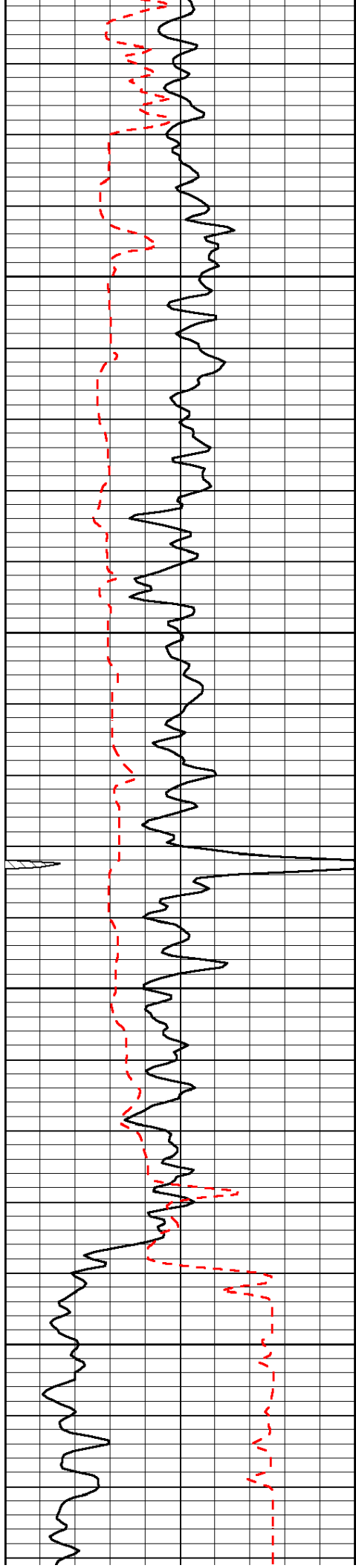


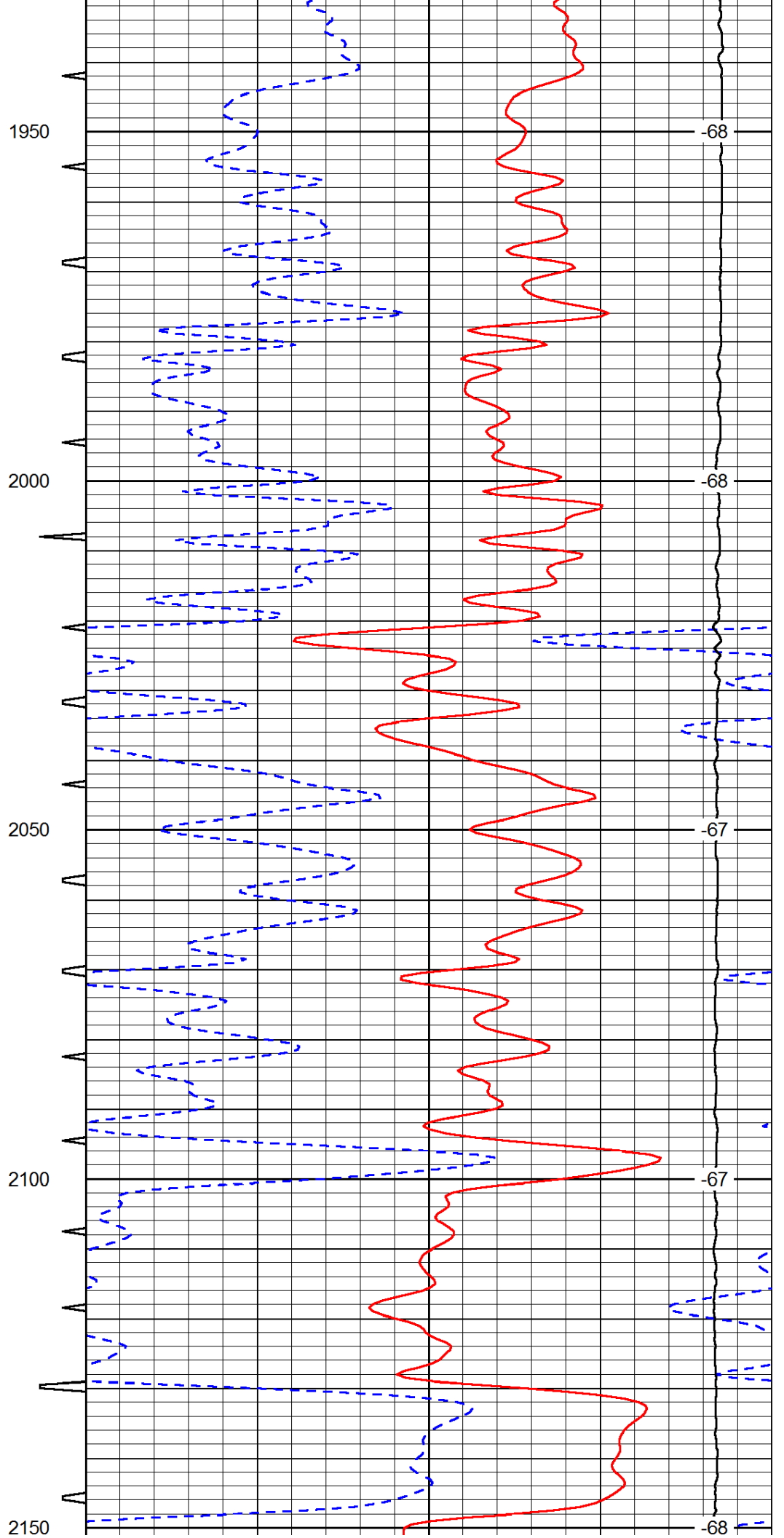
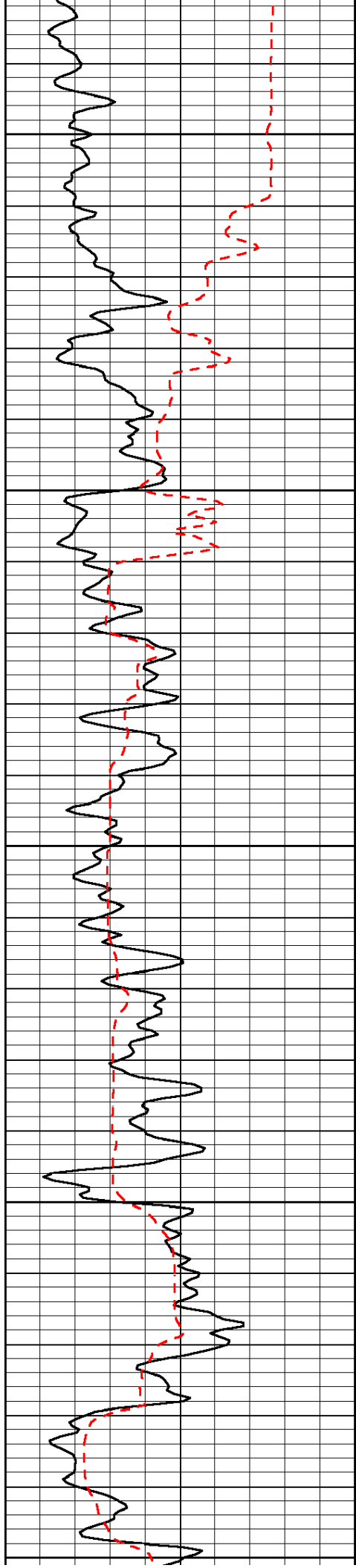


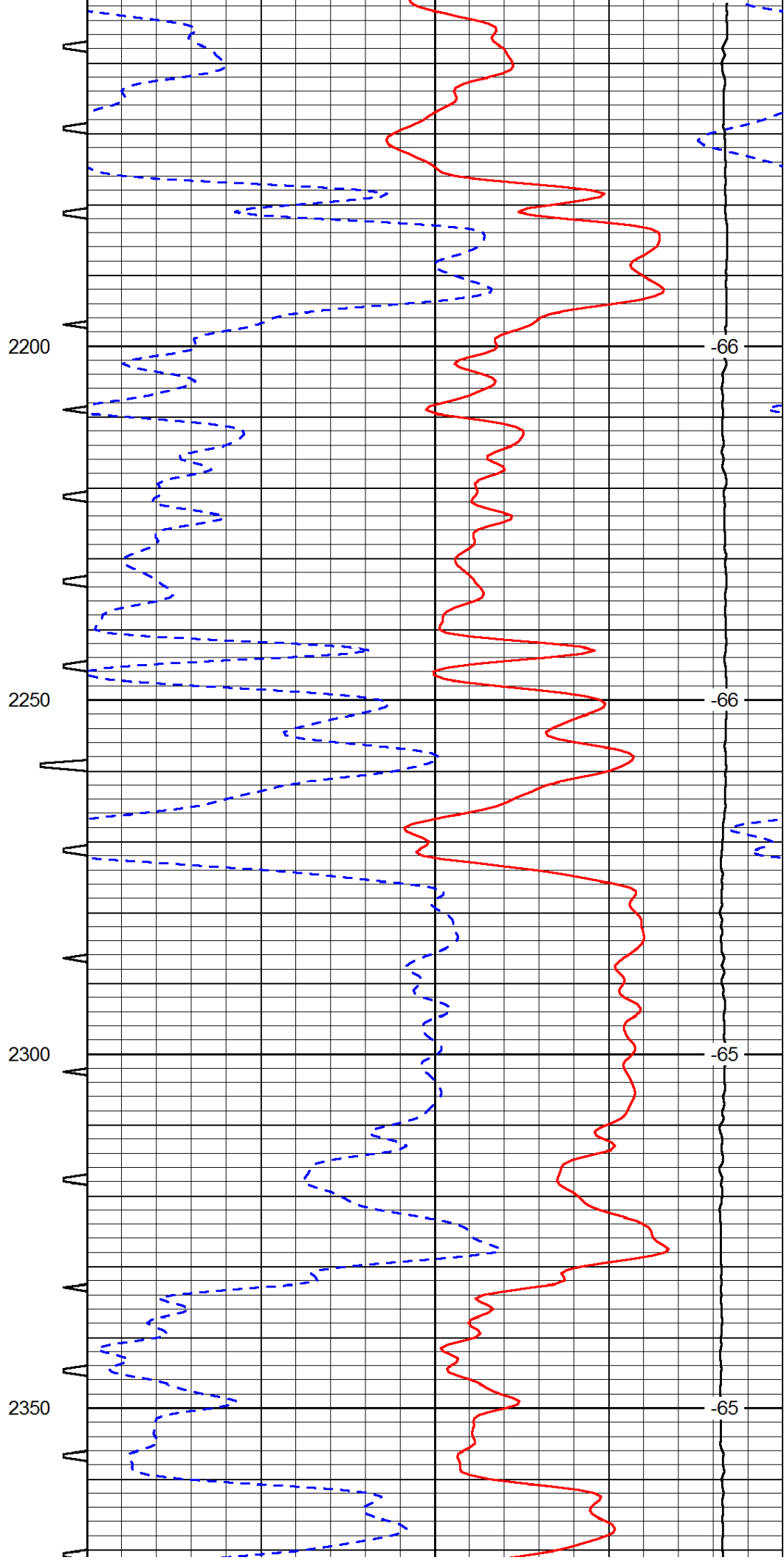
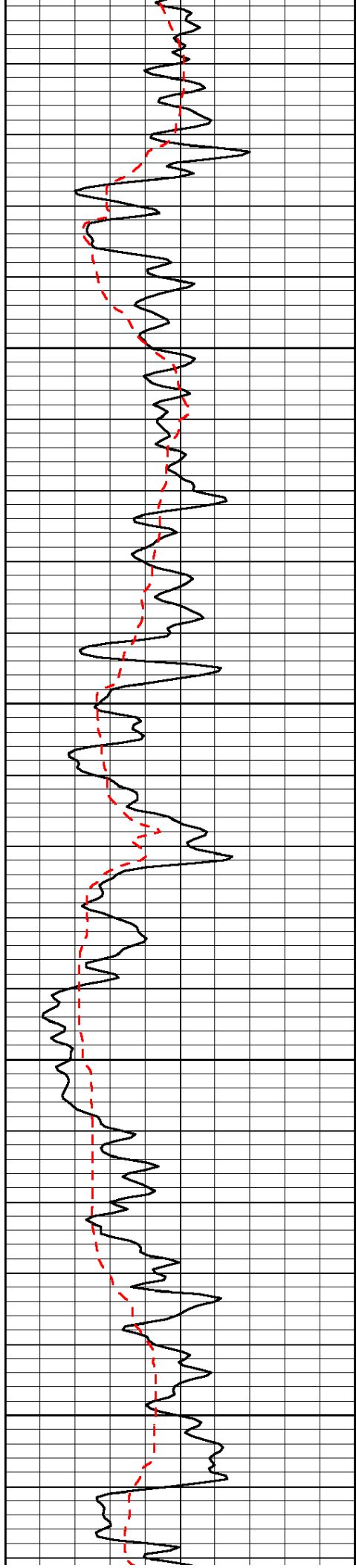


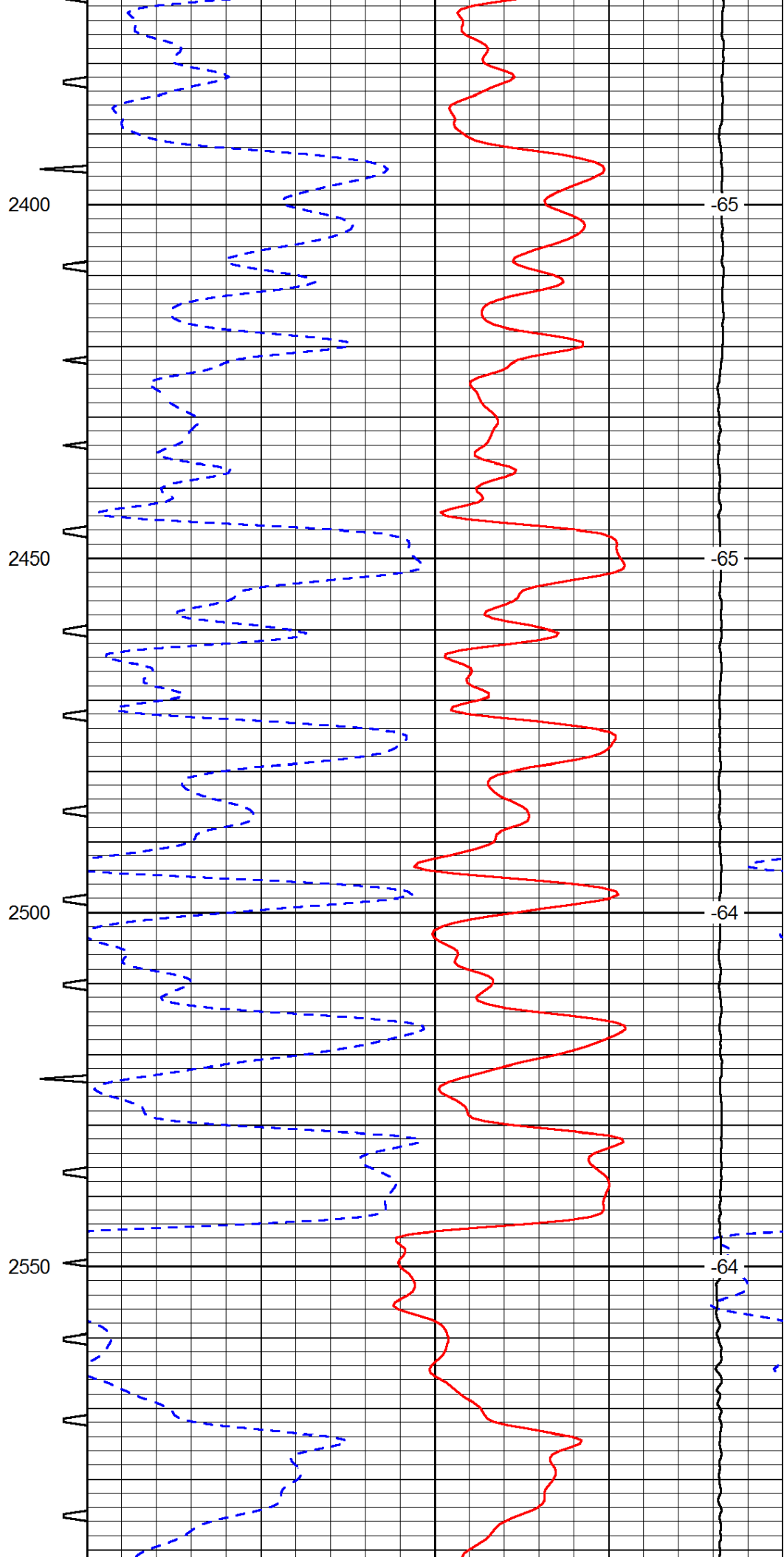
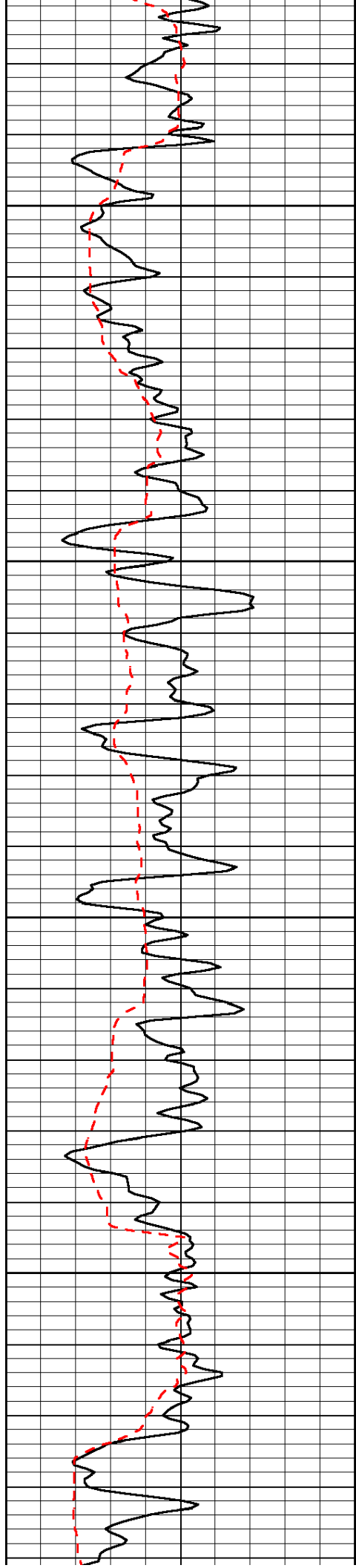


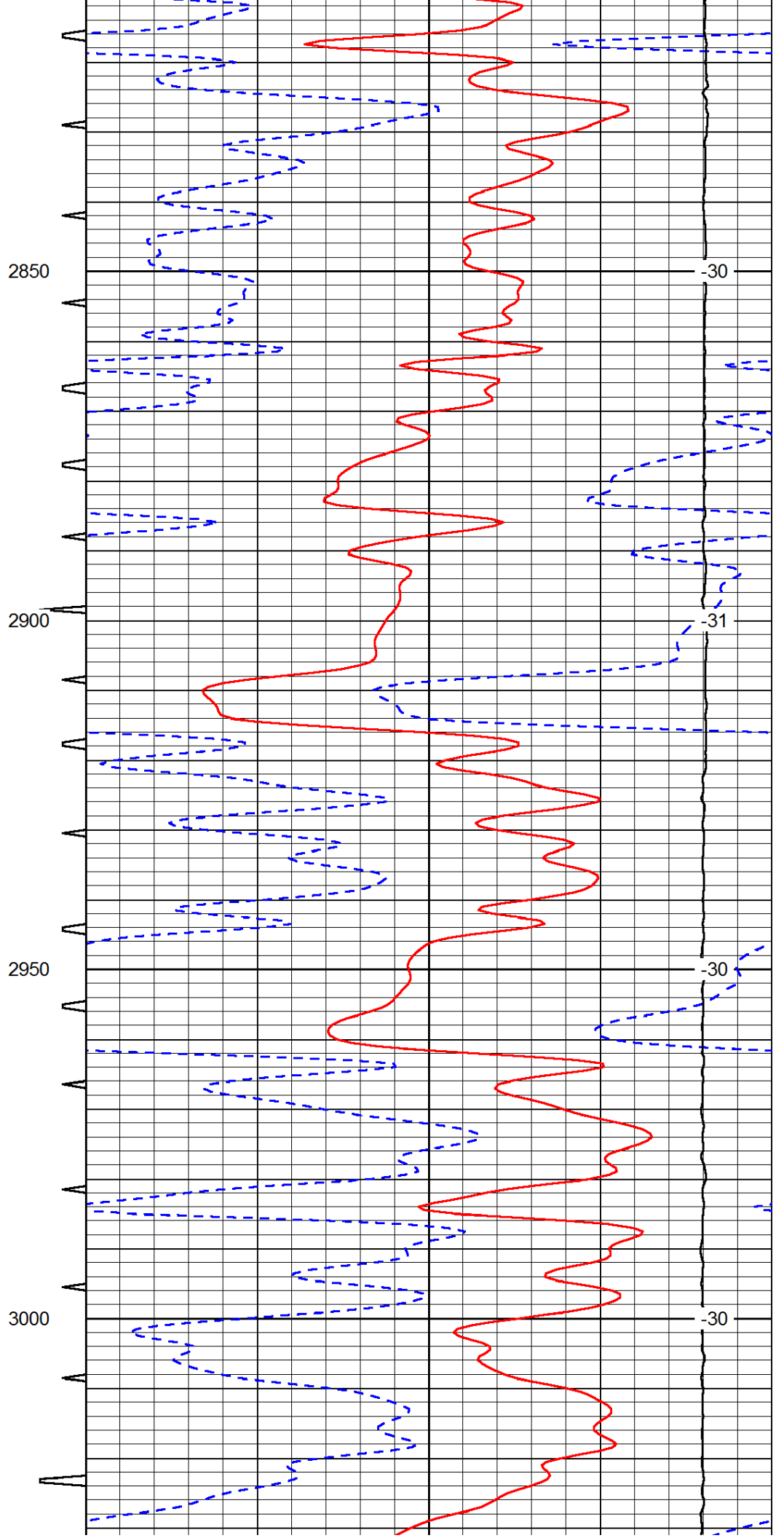
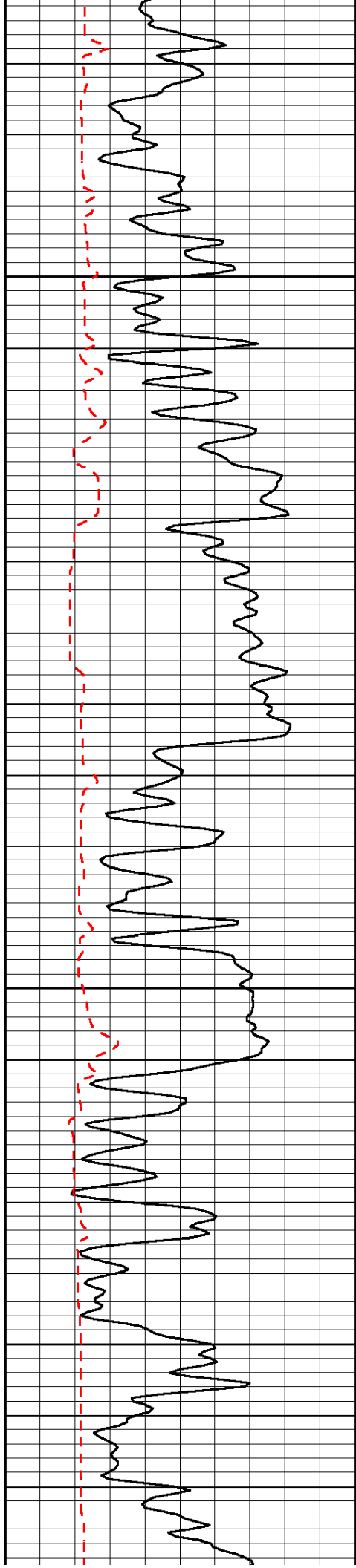


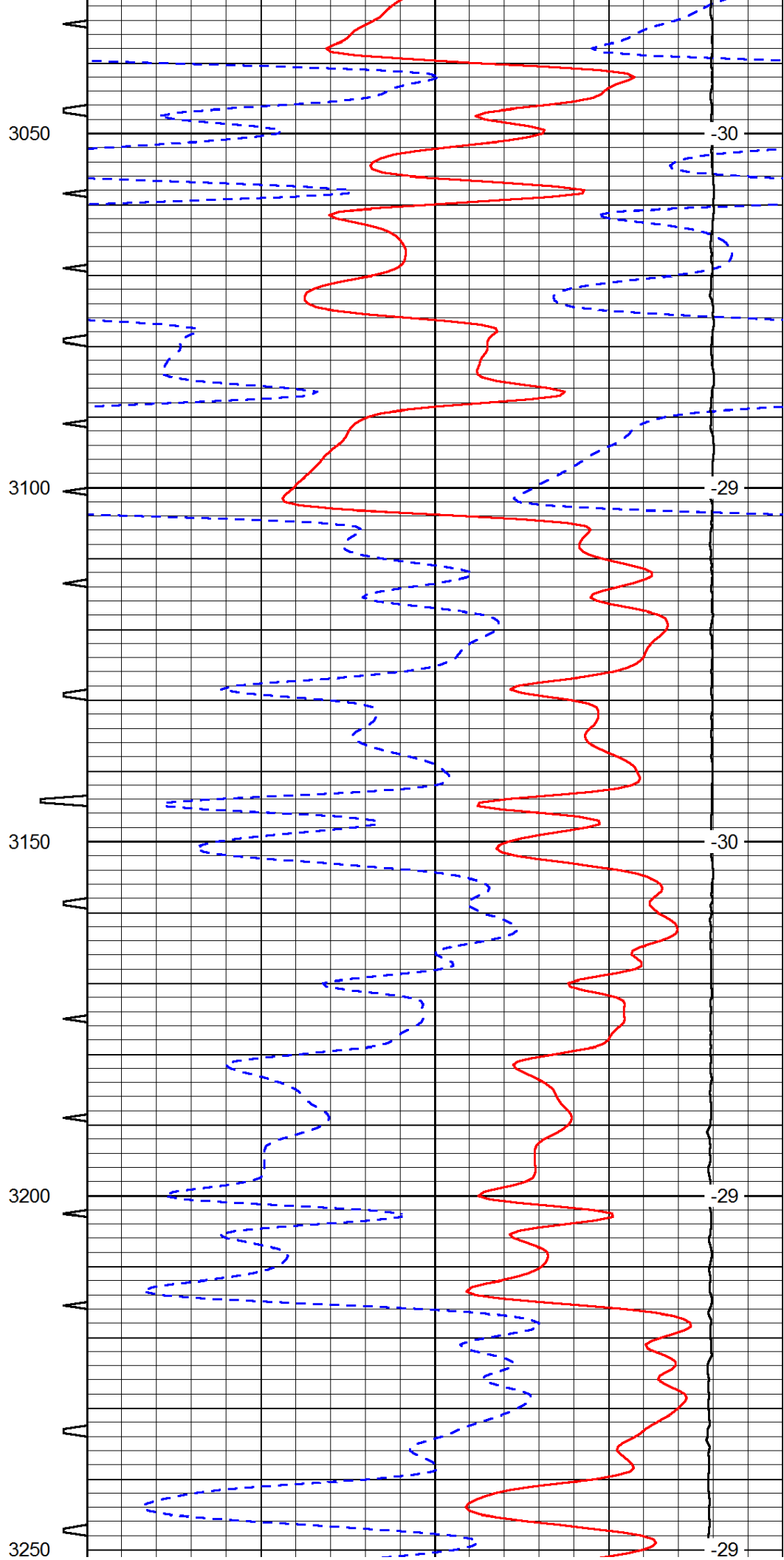
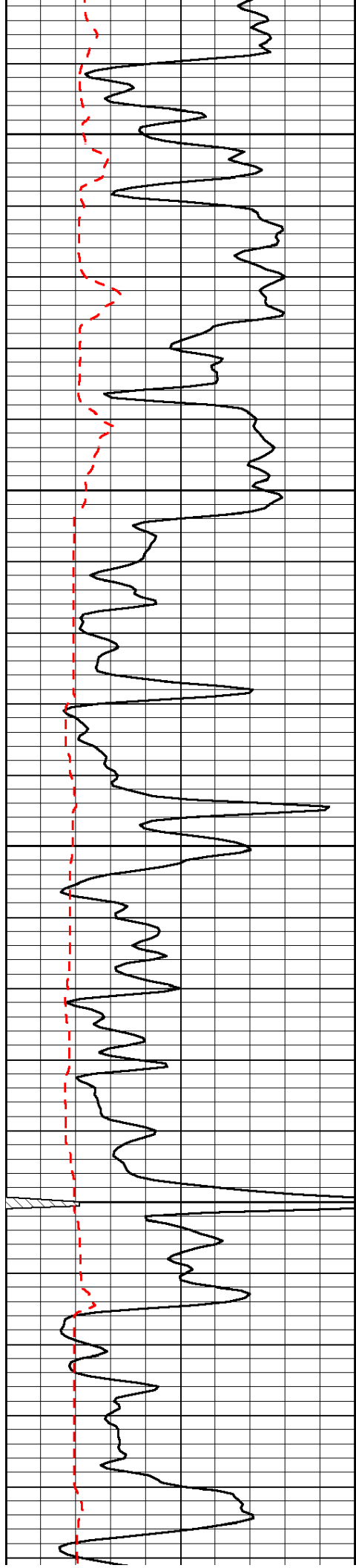


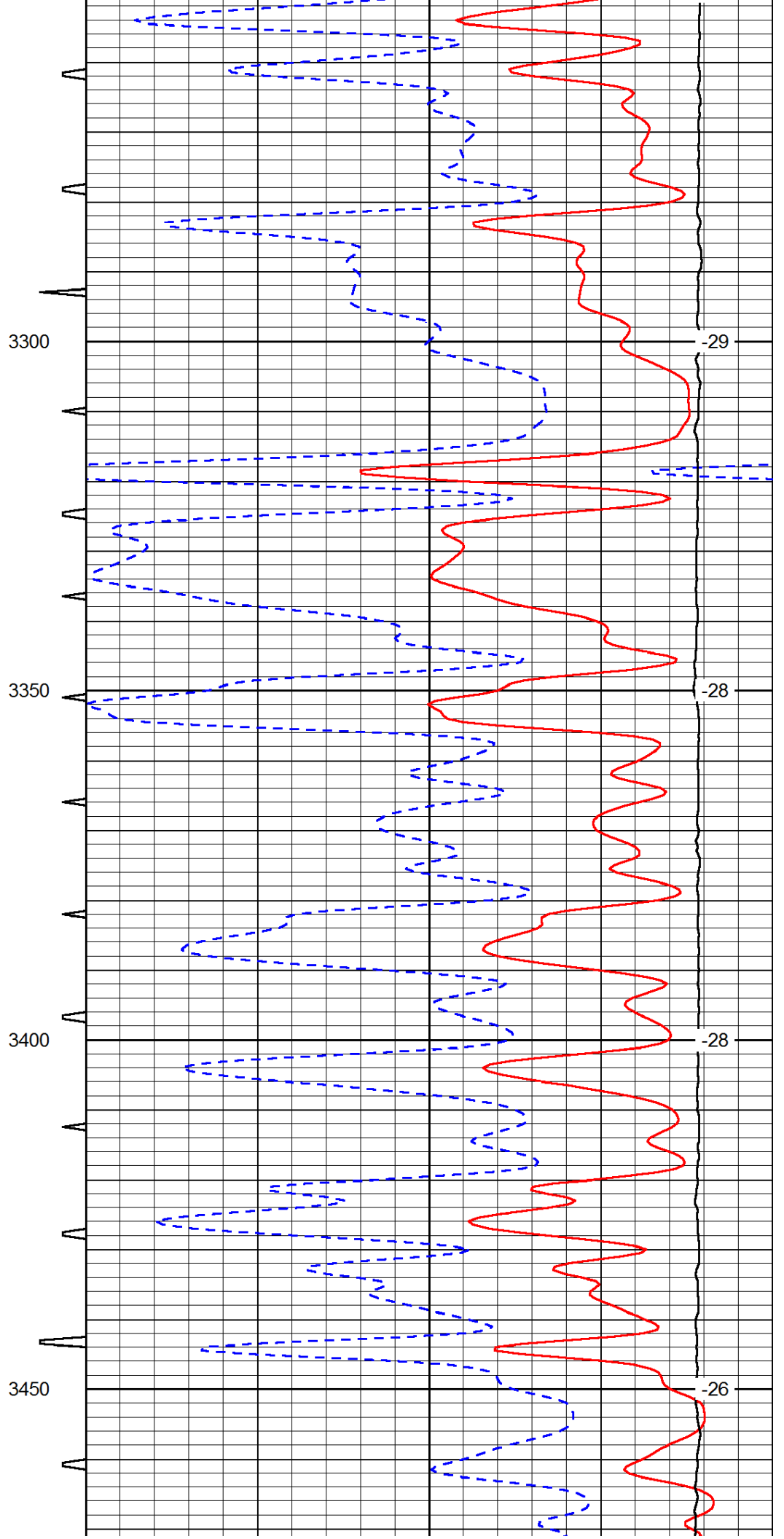
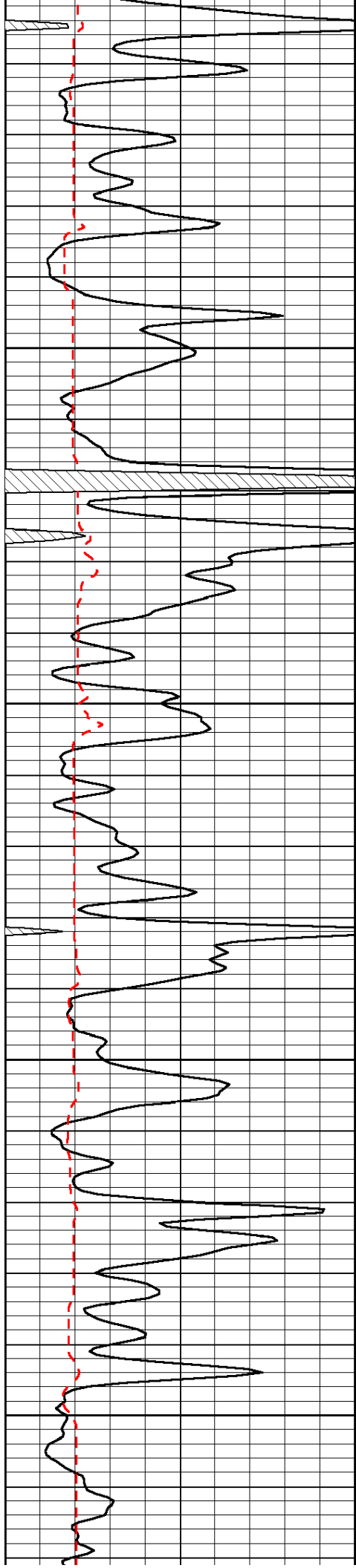


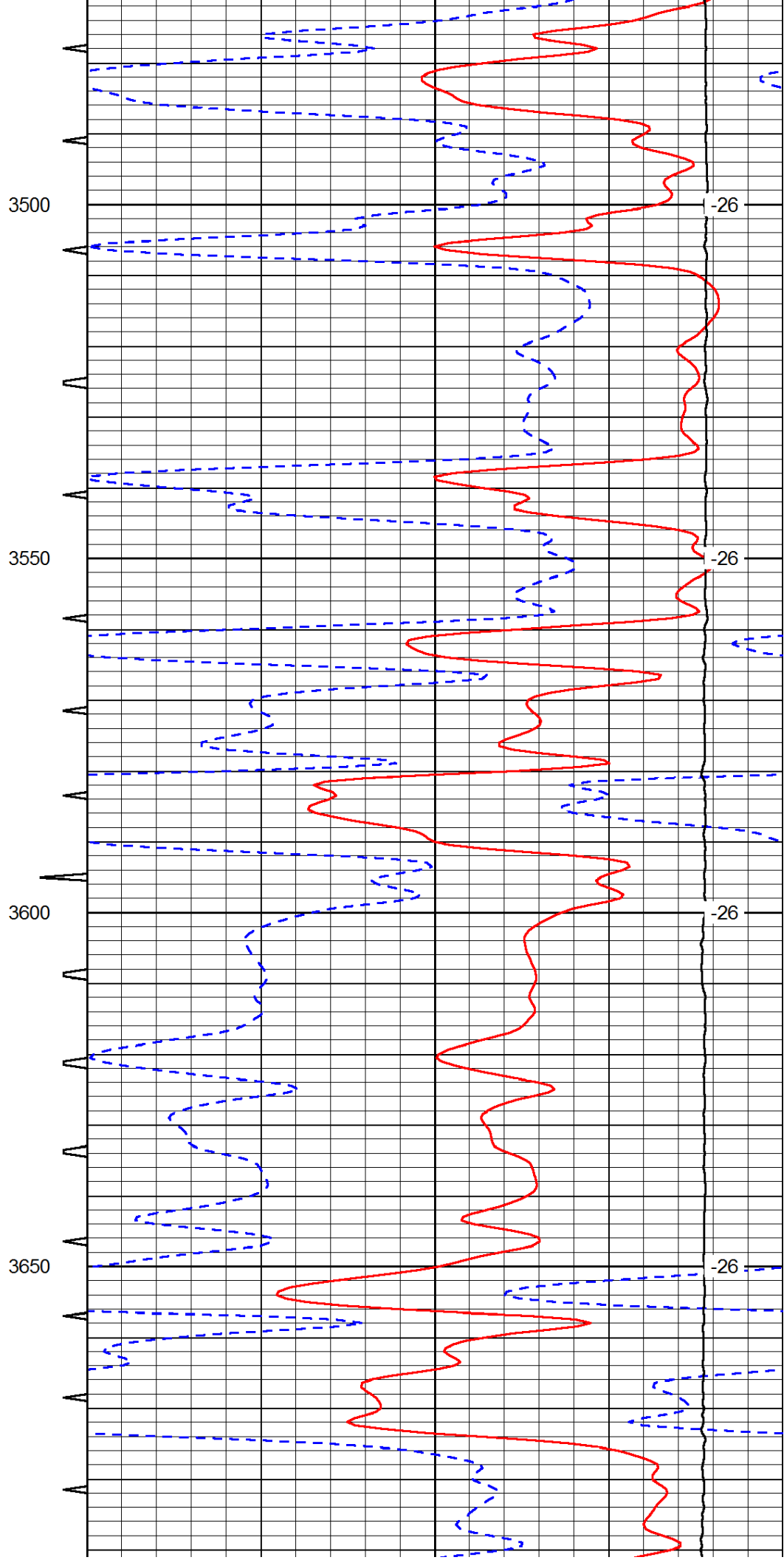
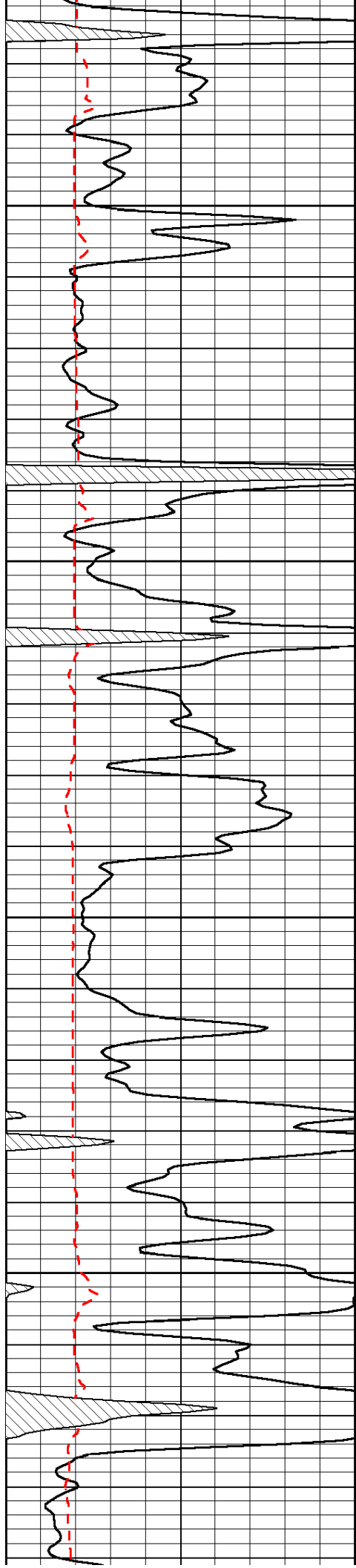


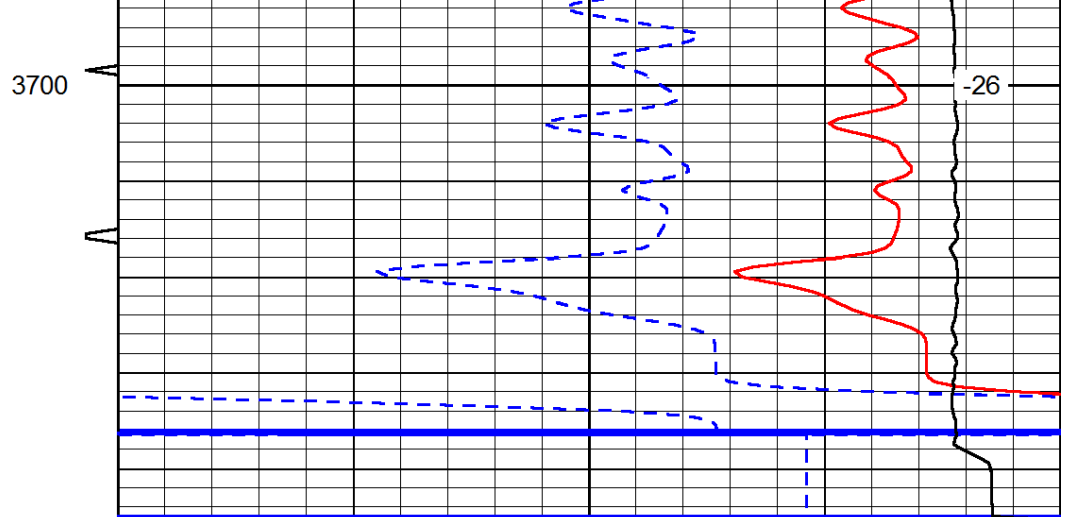
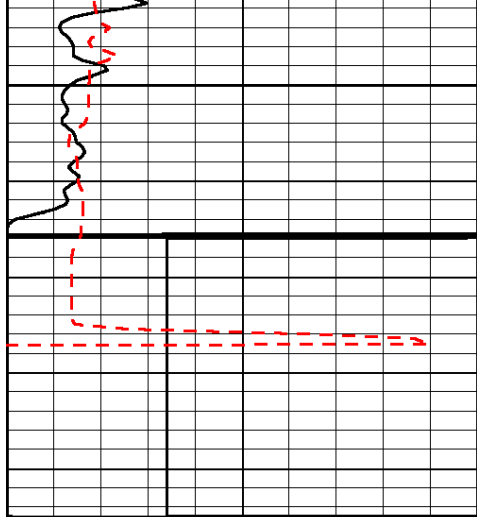












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