



**Borehole Compensated  
Sonic Log**

**DIGITAL LOG (785) 625-3858**

API No. 15-165-21,861-00-00	Company <b>Murfin Drilling Company, Inc.</b>	Location <b>900' FNL &amp; 1900' FWL</b>	Other Services CNL/CDL MEL/DIL
Well <b>McGowan No. 1-15</b>	County <b>Rush</b>		
Field <b>Wildcat</b>	State <b>Kansas</b>		
Log Measured From Kelly Bushing	Sec: <b>15</b>	Twp: <b>16S</b>	Rge: <b>20W</b>
Drilling Measured From Kelly Bushing			Elevation K.B. 2190 D.F. 2185 G.L. 2185

Permanent Datum	Ground Level	Elevation 2185
Log Measured From	Kelly Bushing	5 Ft. Above Perm. Datum
Drilling Measured From	Kelly Bushing	
Date	11/03/2009	
Run Number	Two	
Type Log	BHC Sonic	
Depth Driller	4060	
Depth Logger	4058	
Bottom Logged Interval	4047	
Top Logged Interval	200	
Type Fluid In Hole	Chemical	
Salinity, PPM CL	8,200	
Density	9.2	
Level	Full	
Max. Rec. Temp. F	119	
Operating Rig Time	4 1/2 Hours	
Equipment -- Location	4 Hays	
Recorded By	Mike Garrison	
Witnessed By	Paul Gunzelman	

Borehole Record				Casing Record			
Run No	Bit	From	To	Size	Wgt.	From	To
1	12.25	00	218	8.625	24#	00	218
2	7.875	218	4060				

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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.

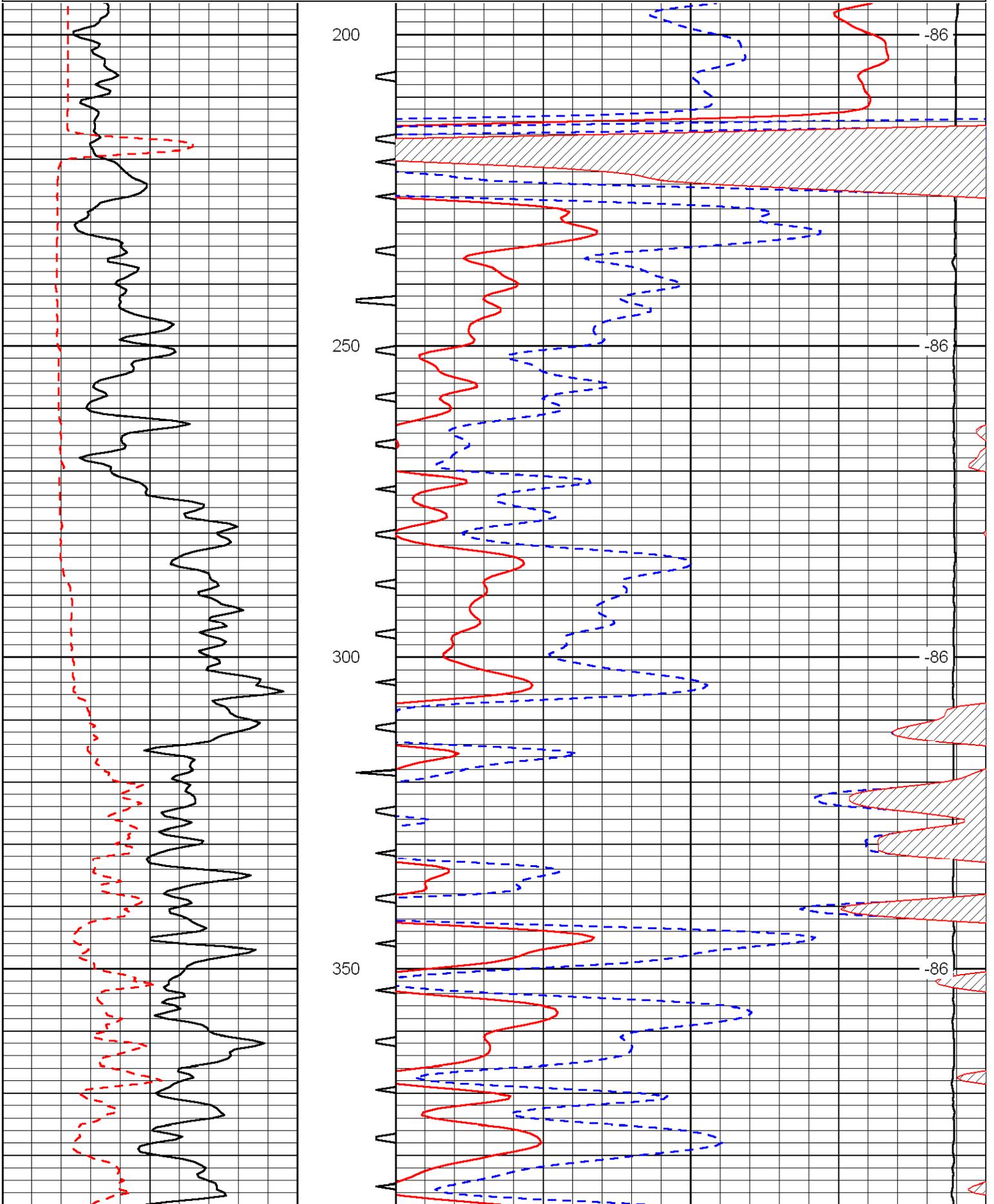
**Comments**

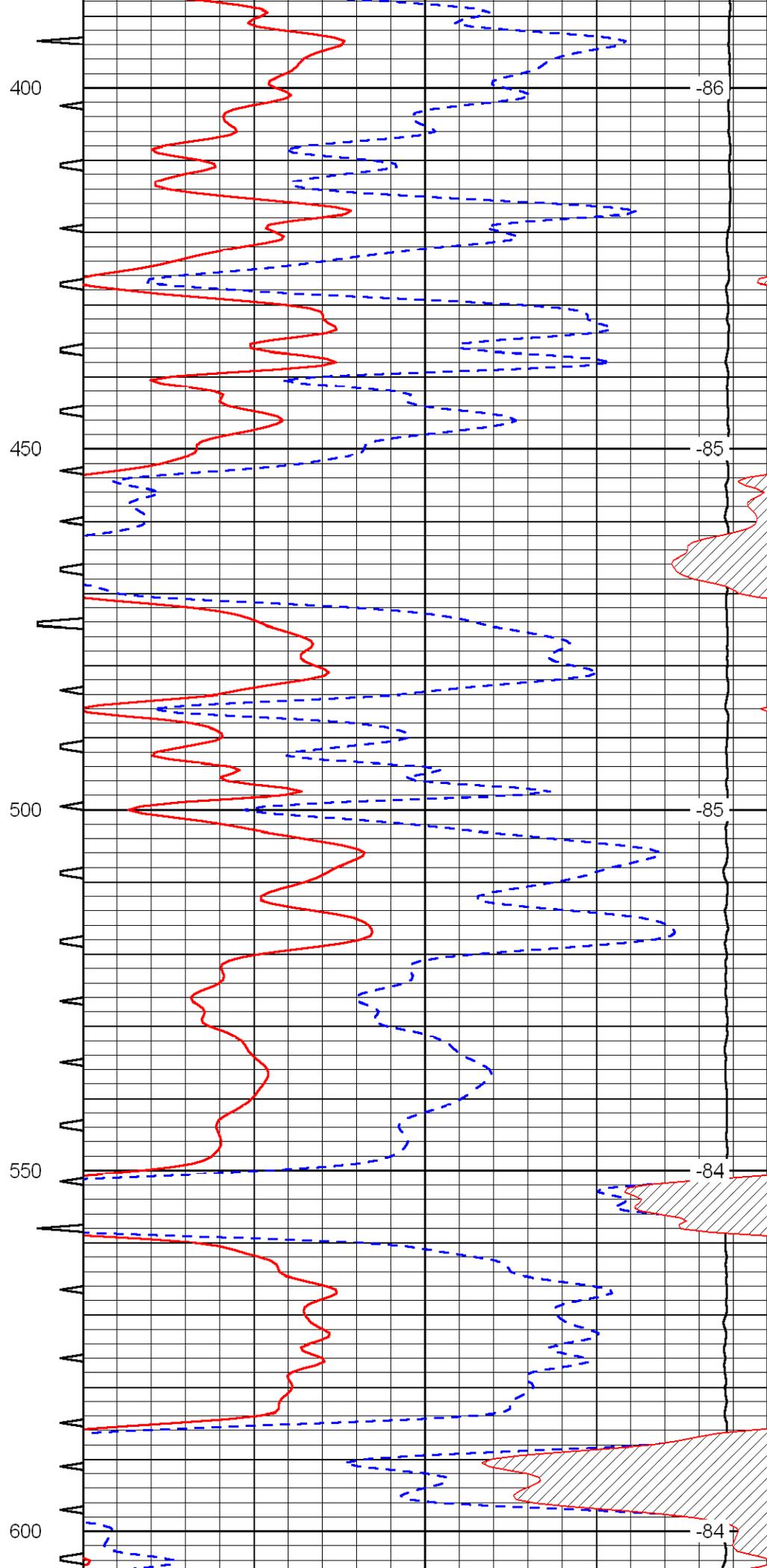
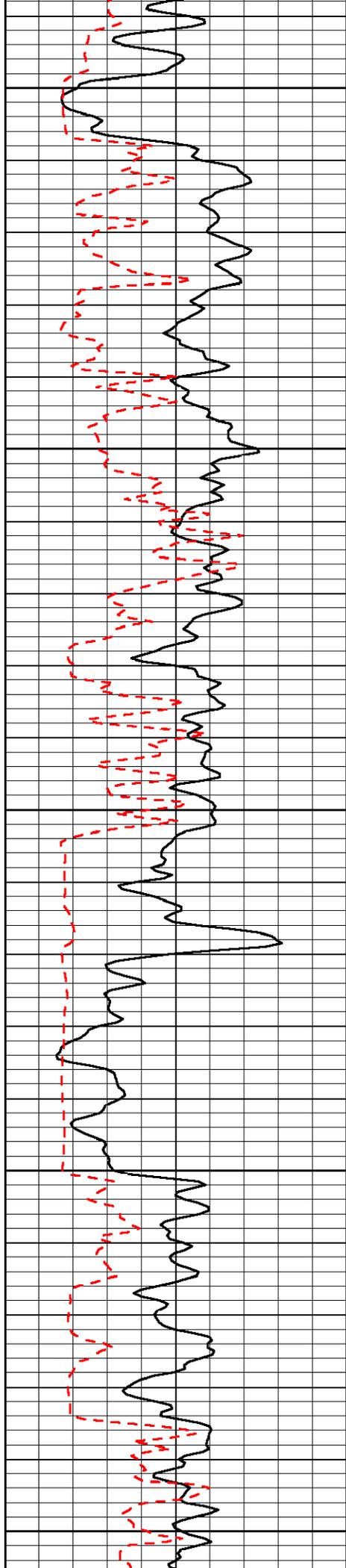
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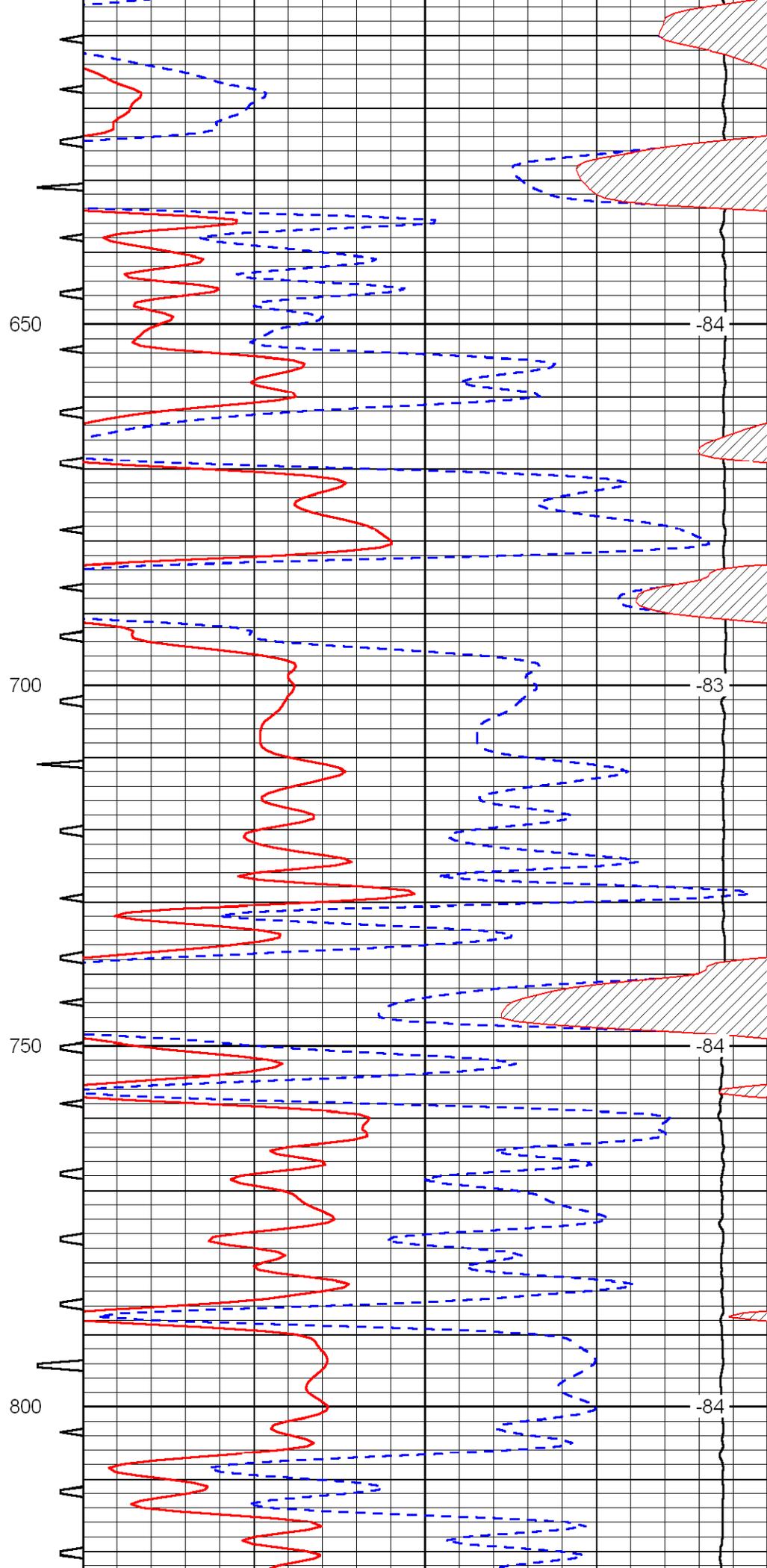
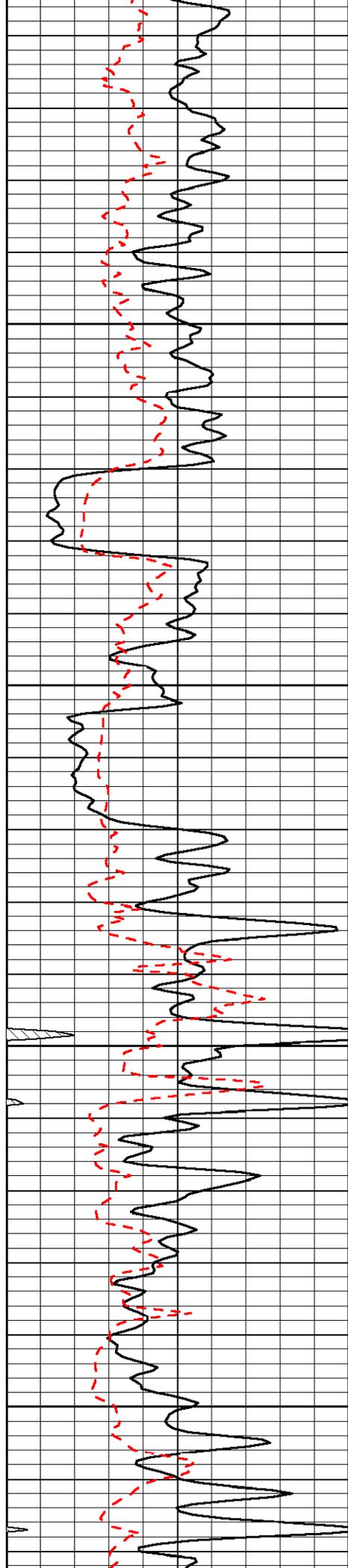
Liebenthal 1/2 South, 11 1/2 West, 1 1/2 North, East Into

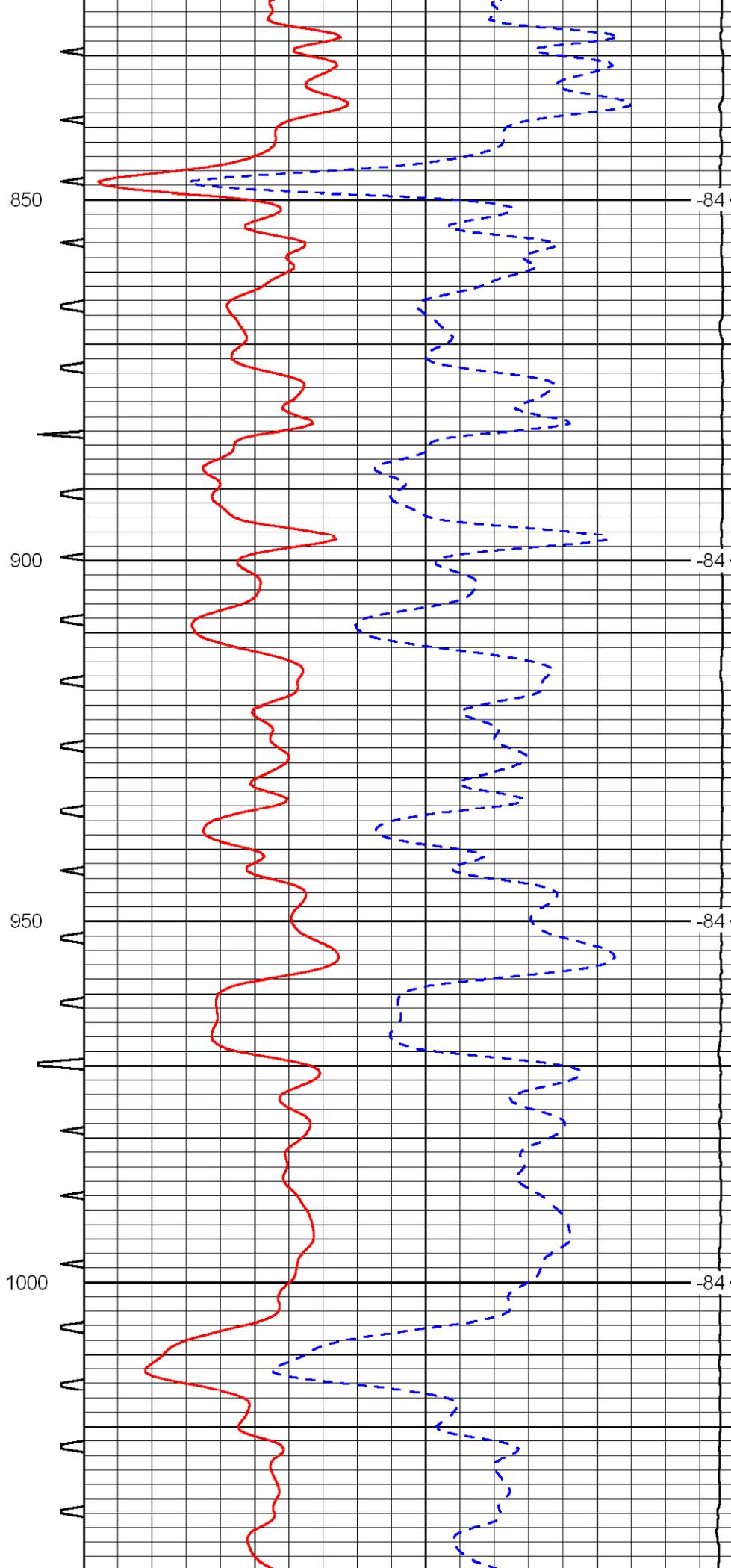
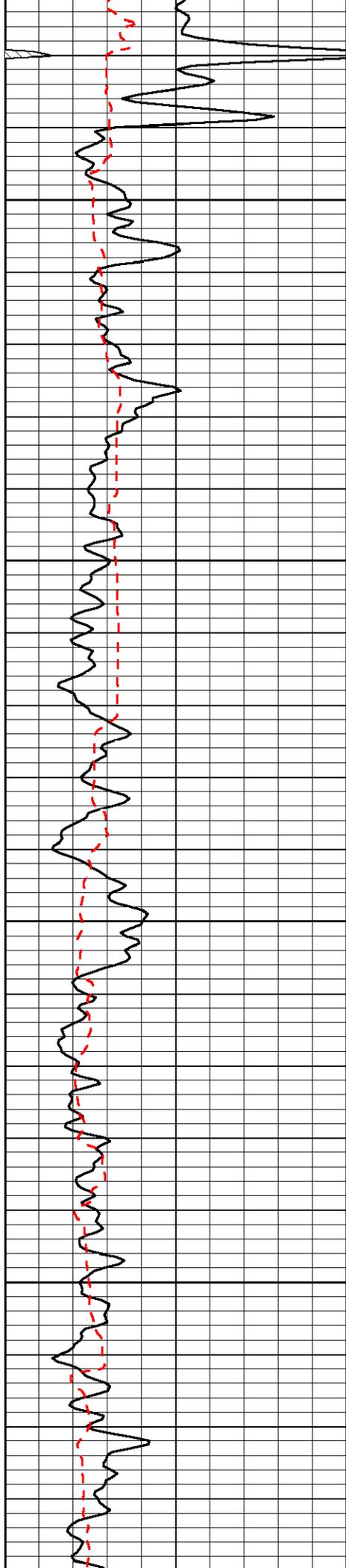
Database File: c:\warrior\data\murfin\_mcgowan no. 1-15\murfhd.db  
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 Presentation Format: sonic  
 Dataset Creation: Tue Nov 03 05:30:09 2009  
 Charted by: Depth in Feet scaled 1:240

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

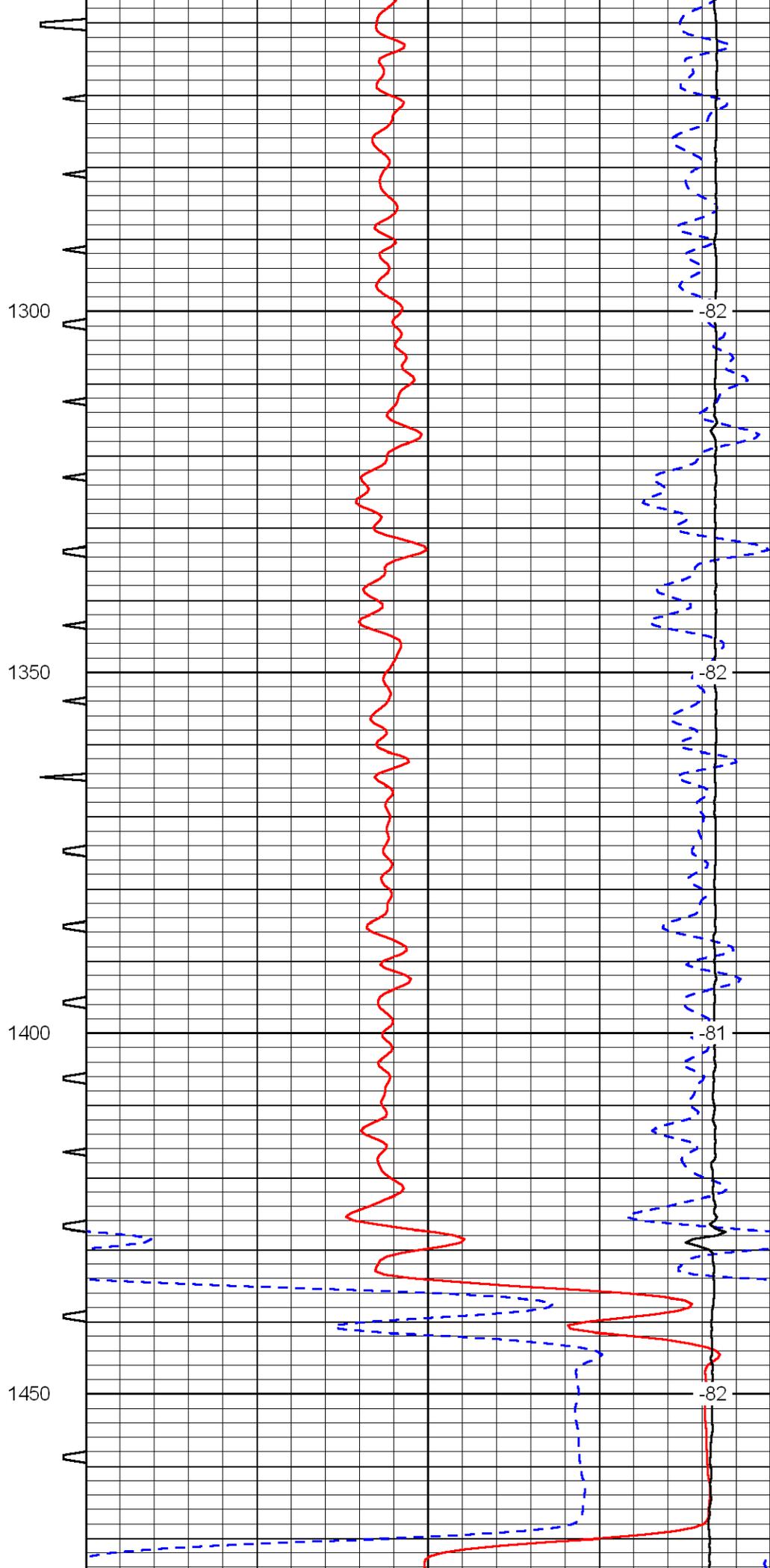
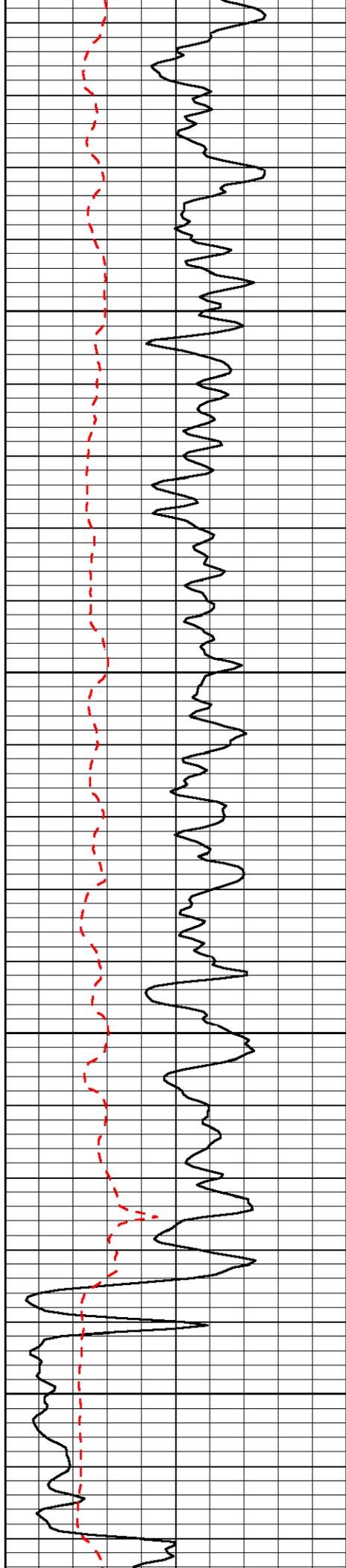


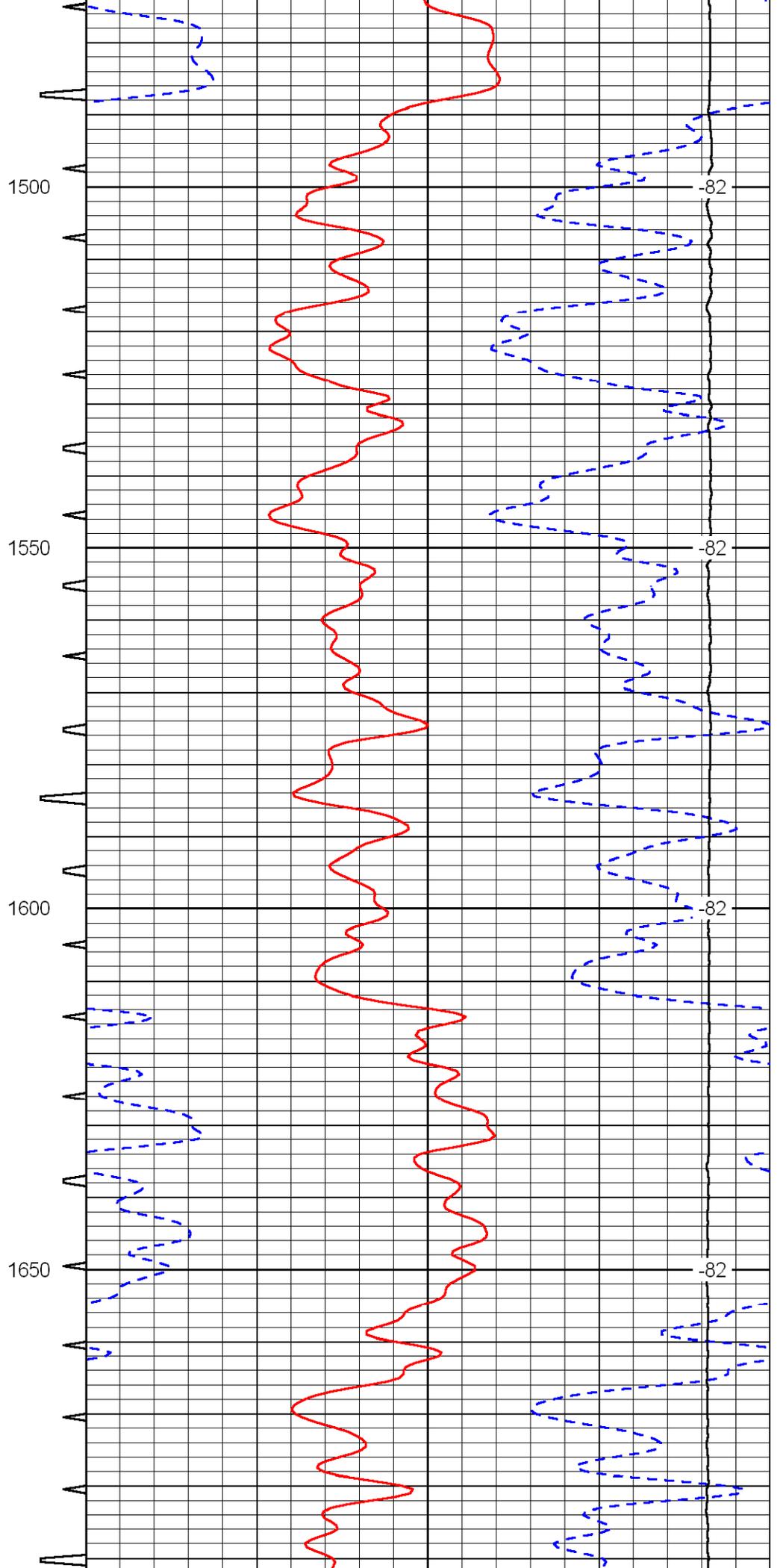
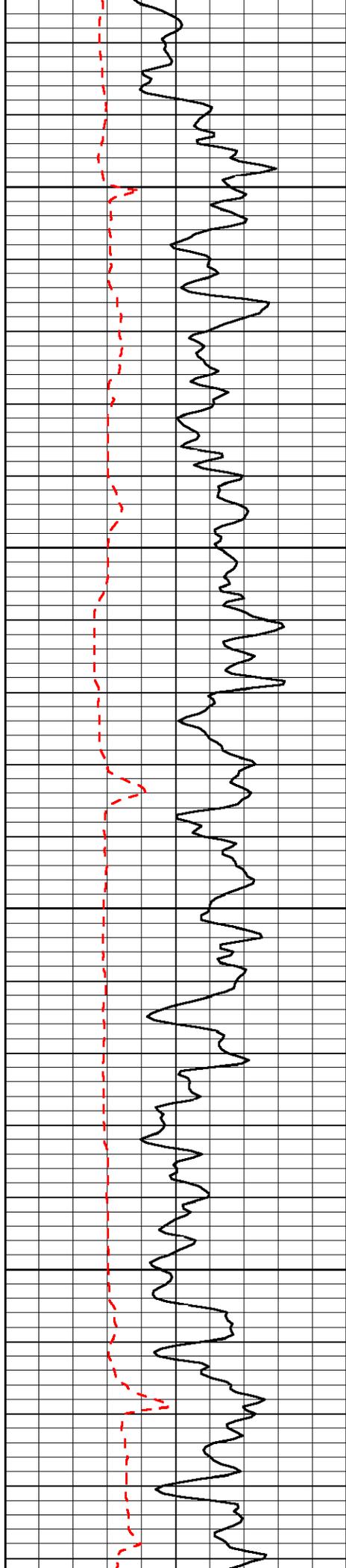


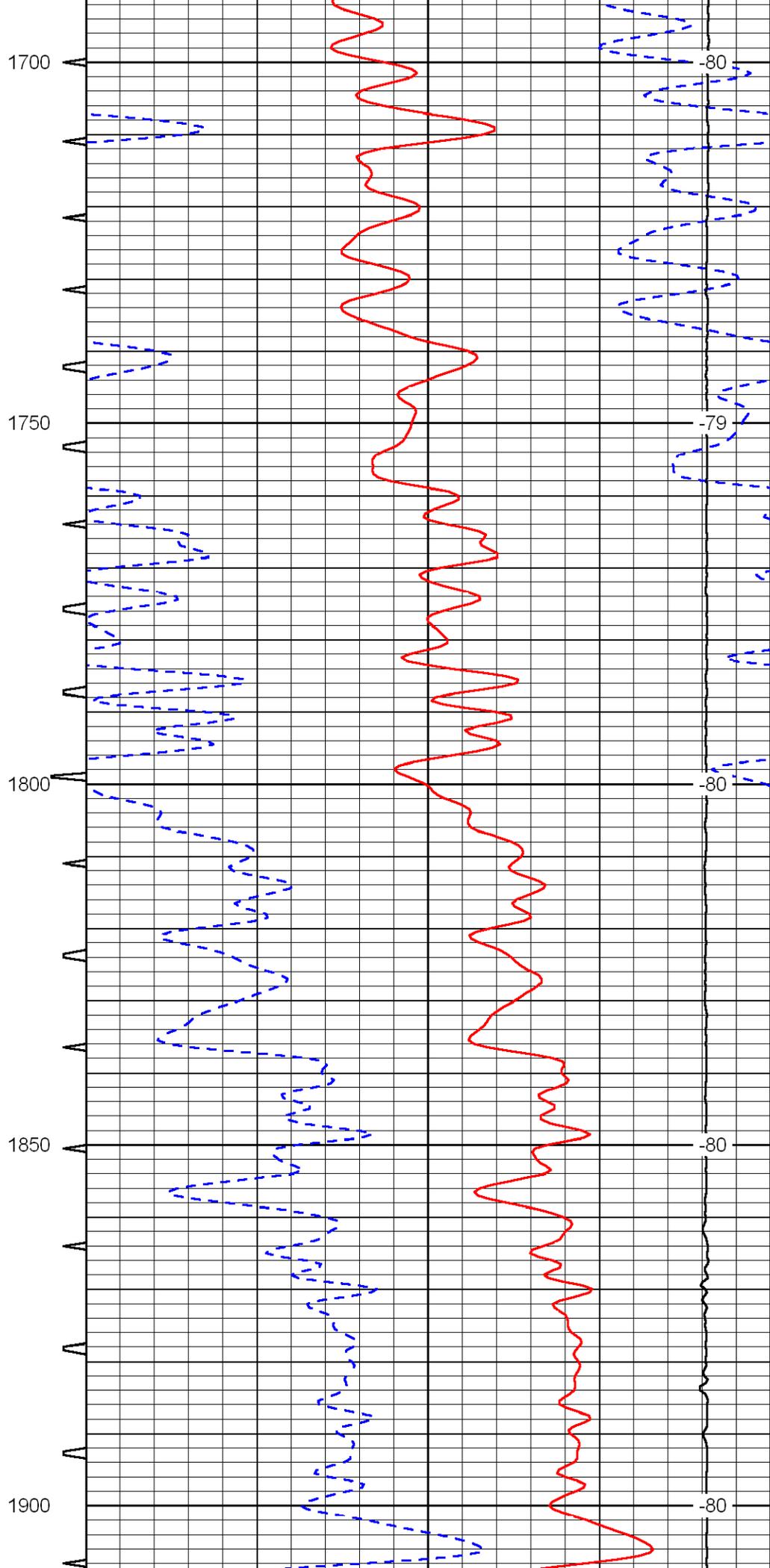
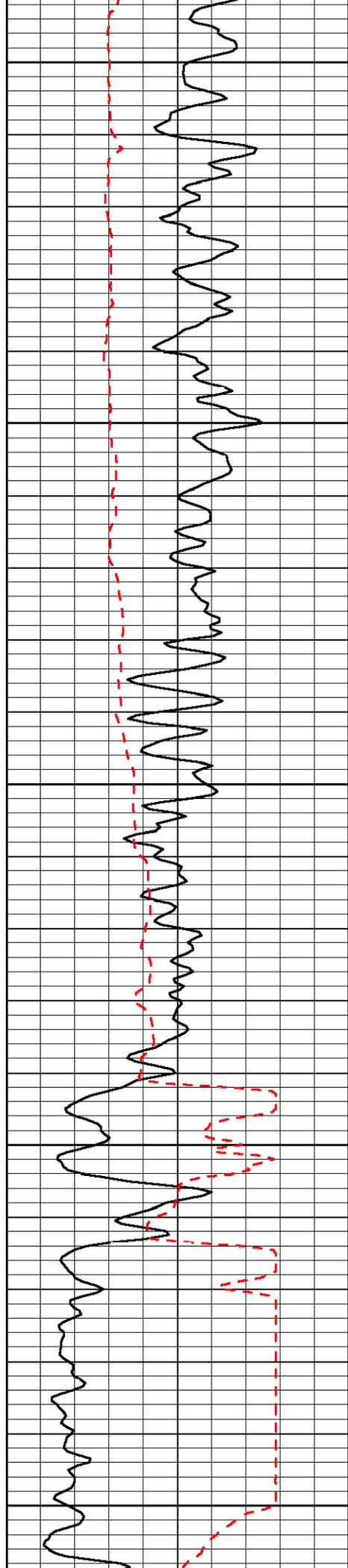


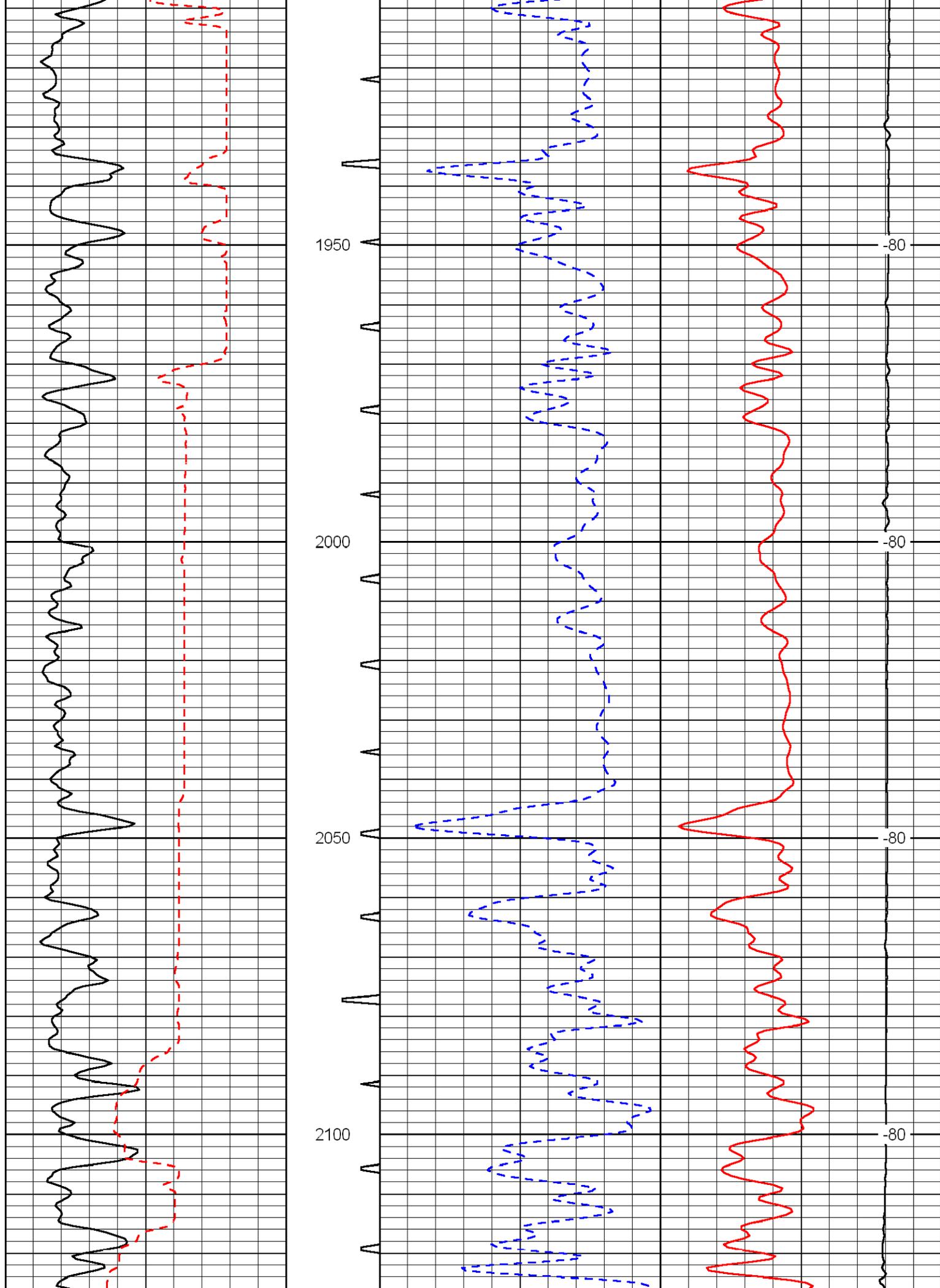


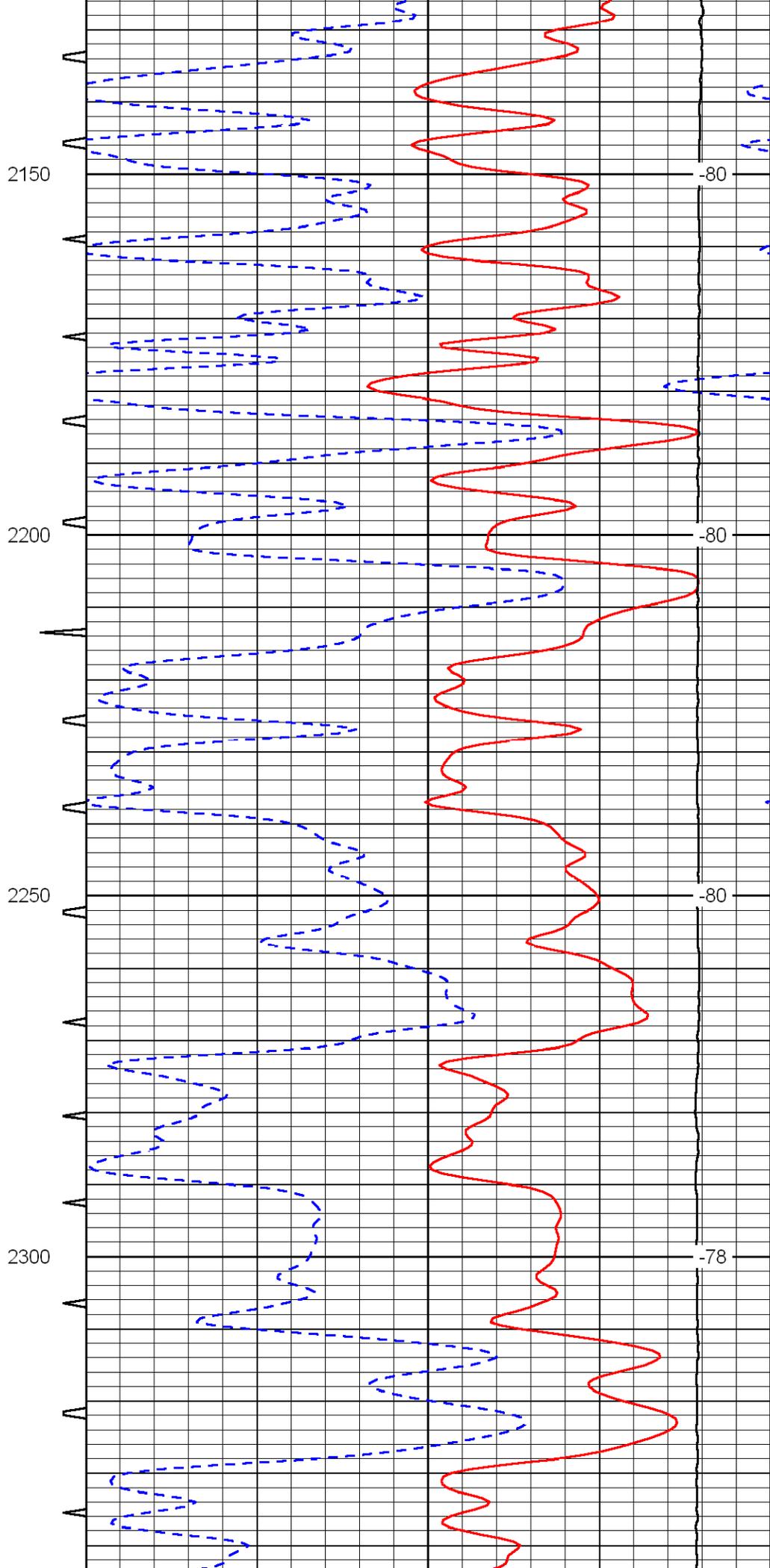
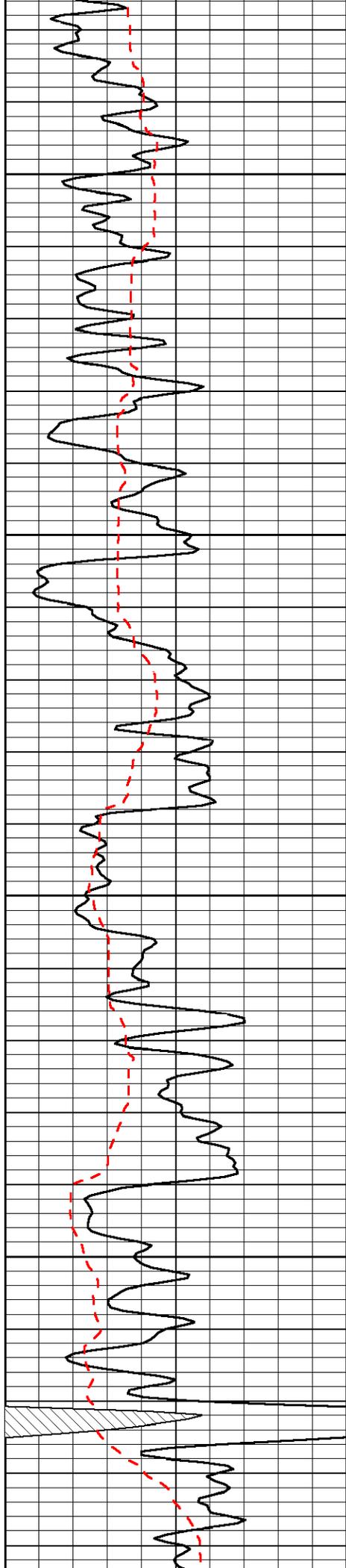




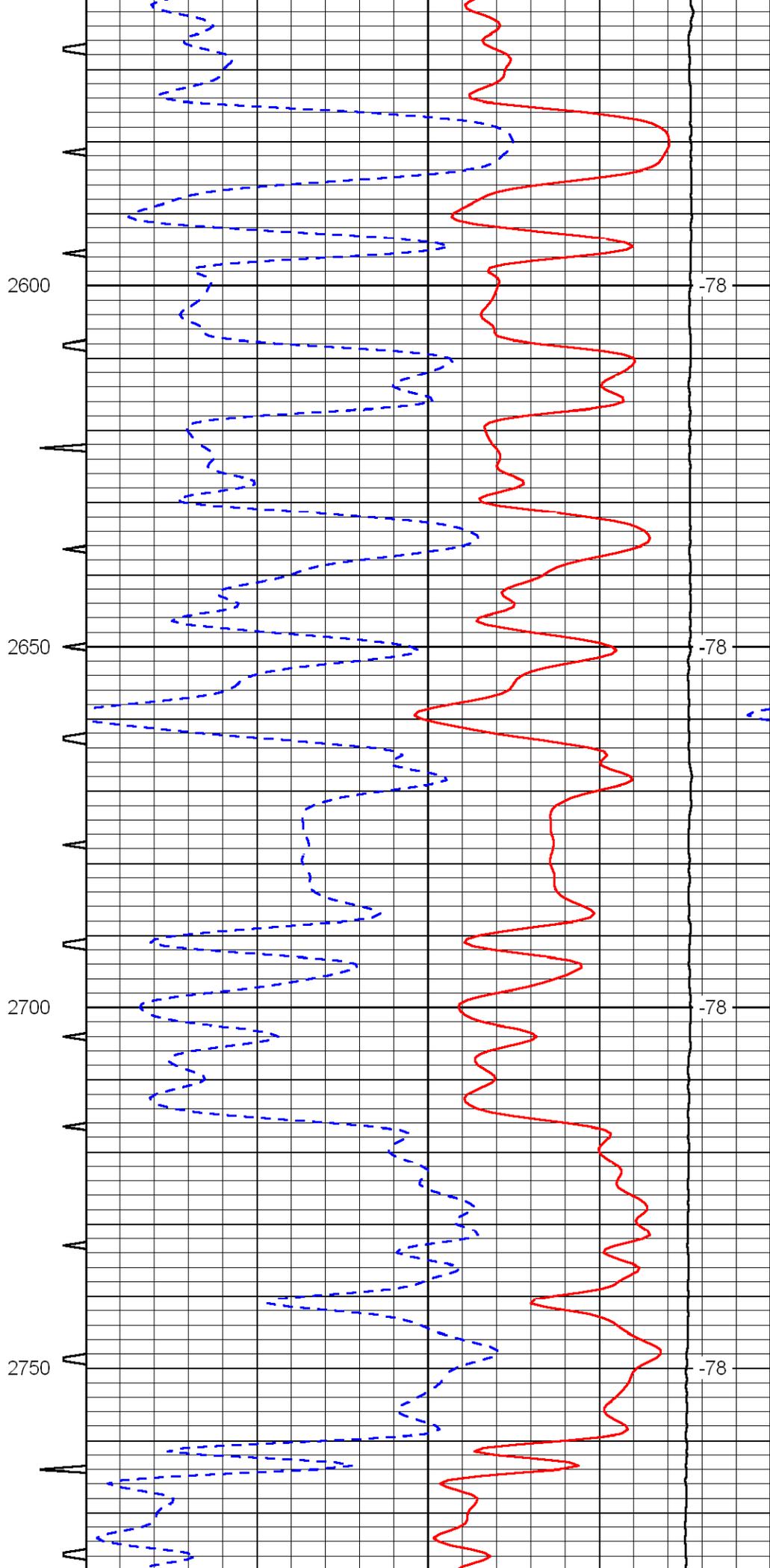
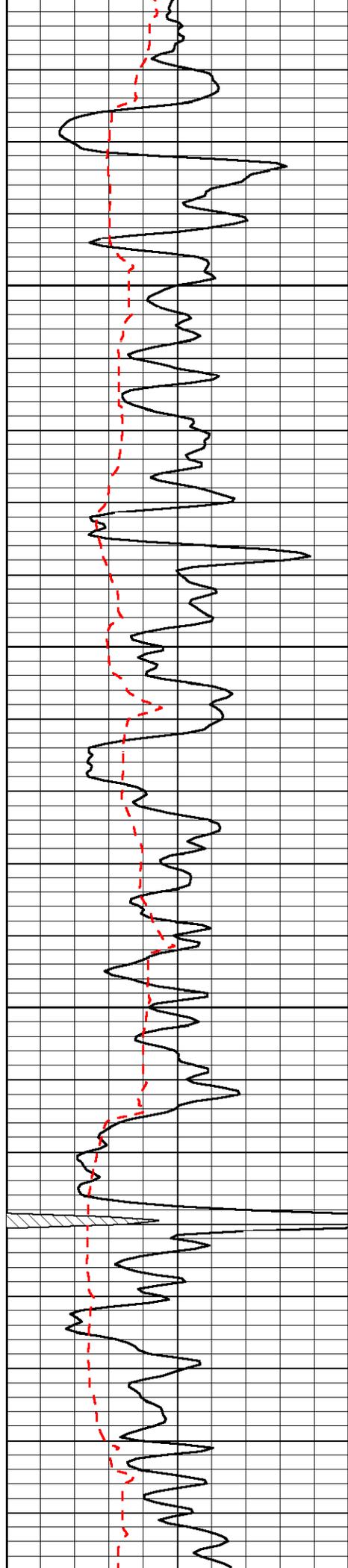


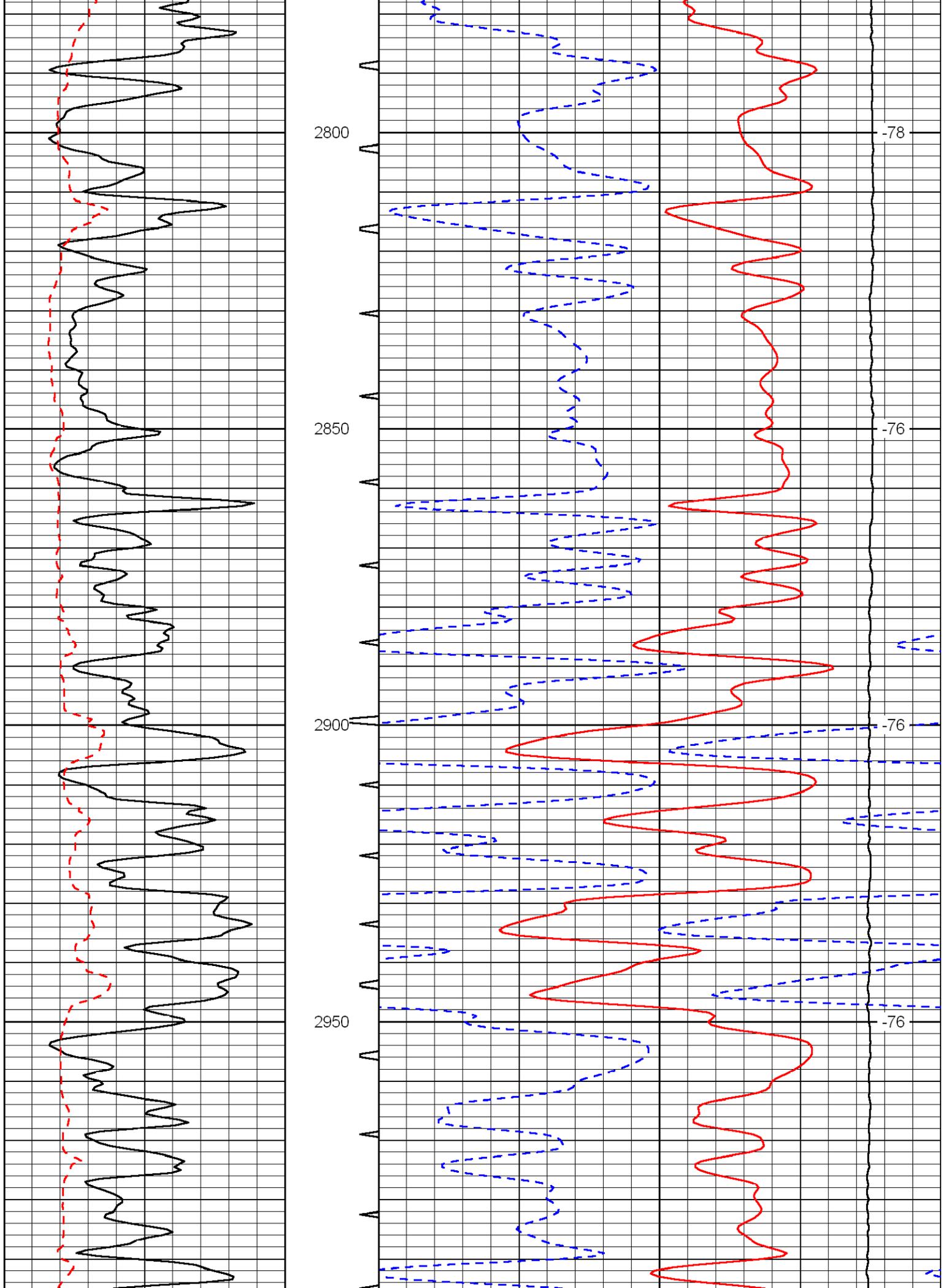


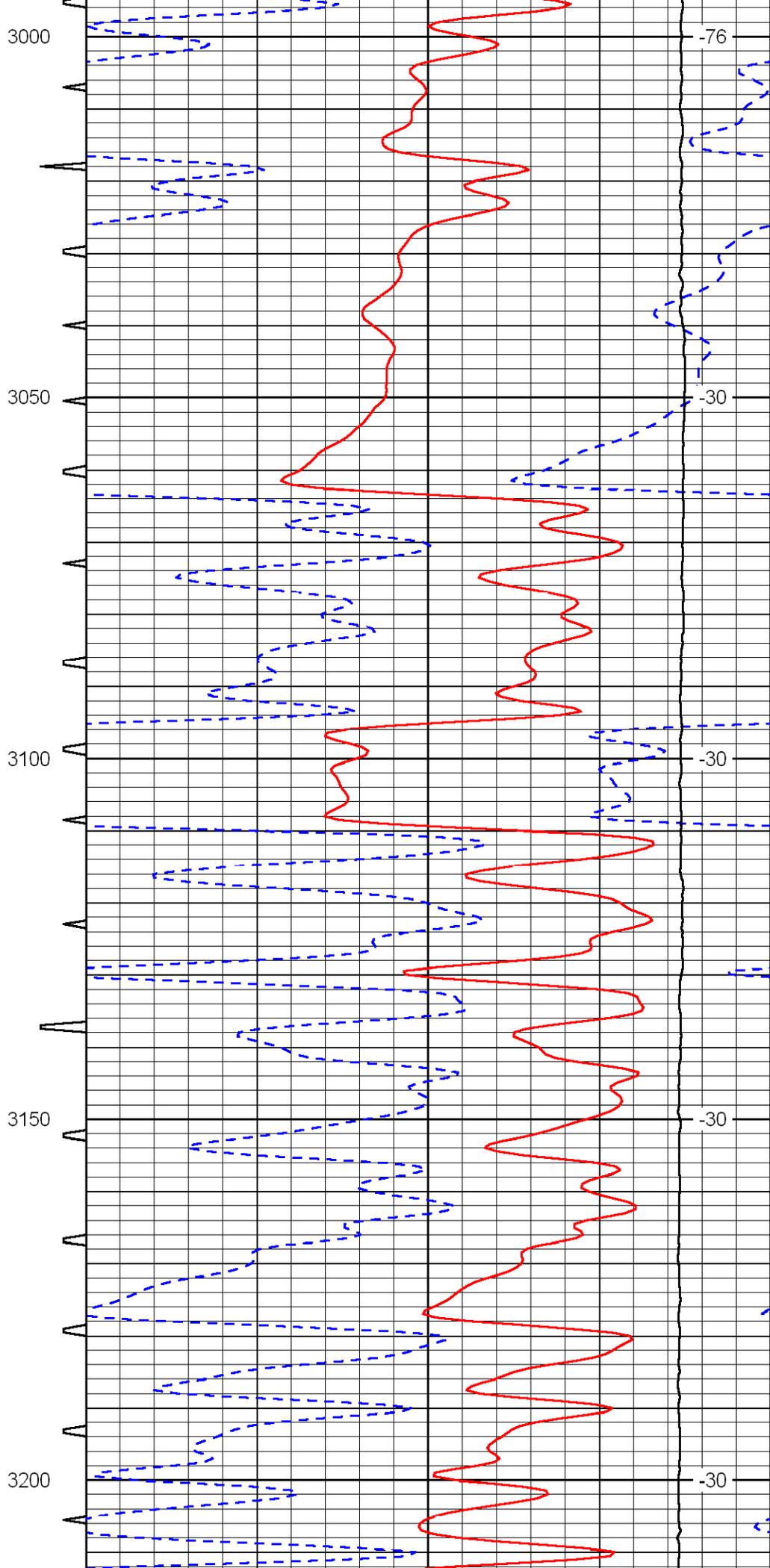
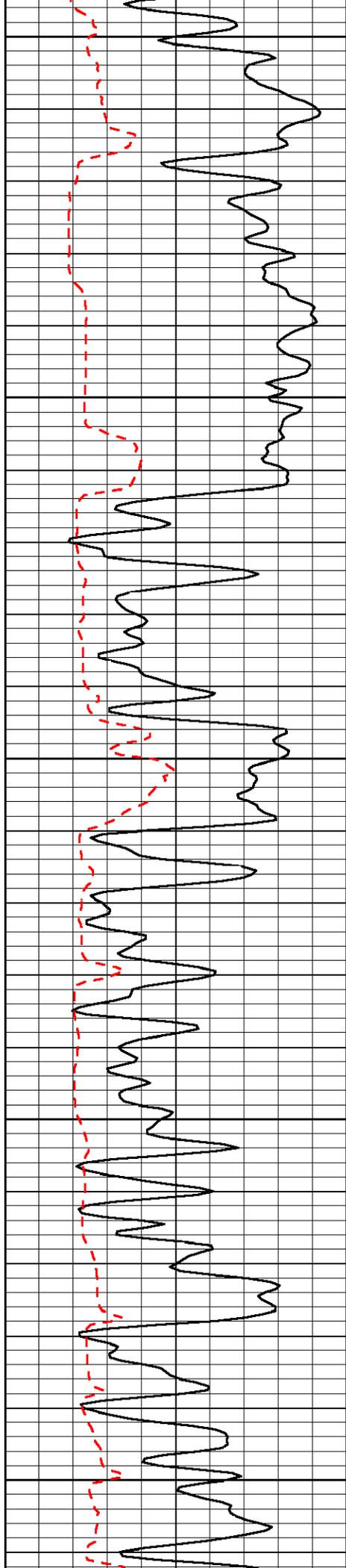


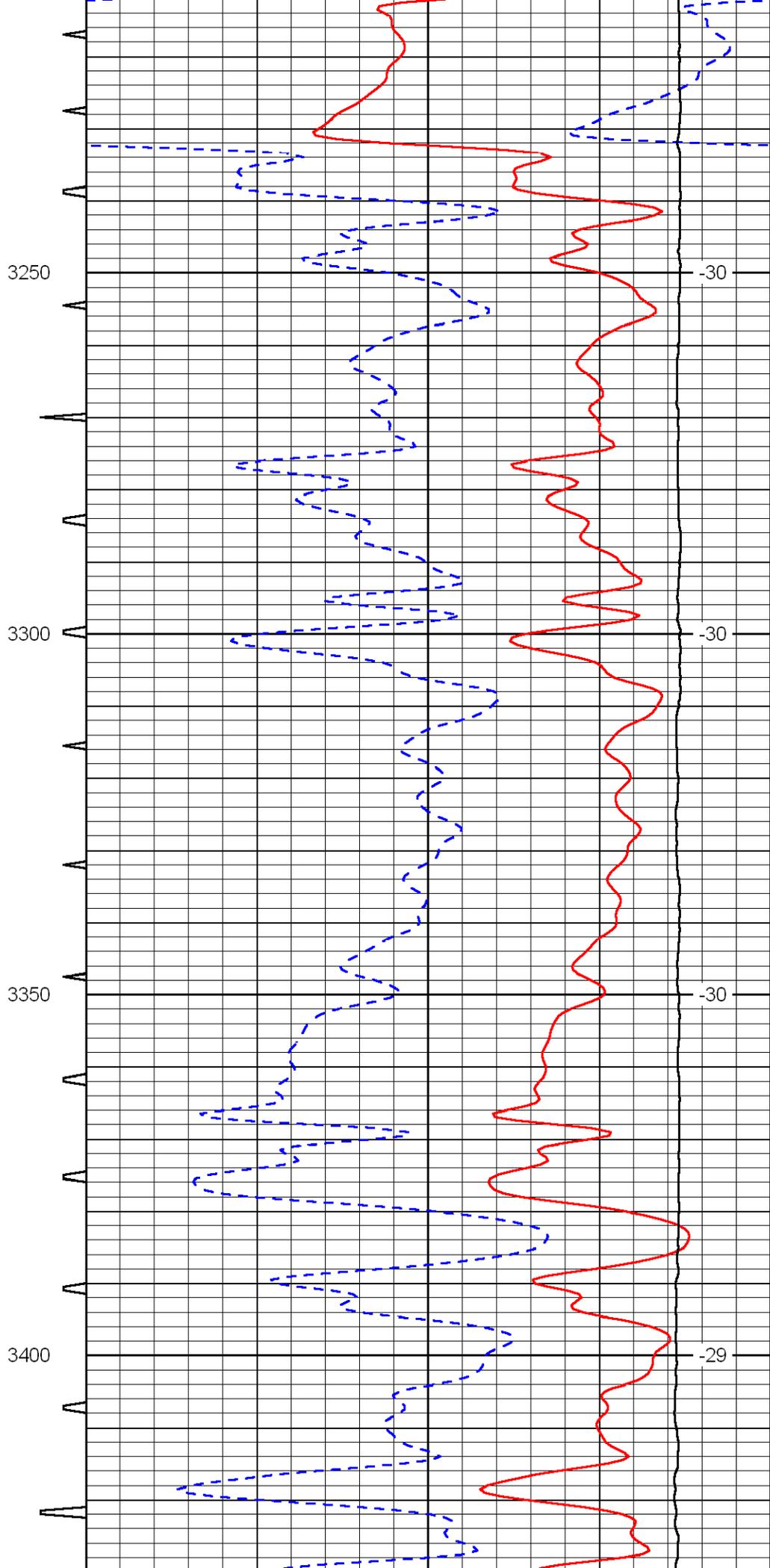
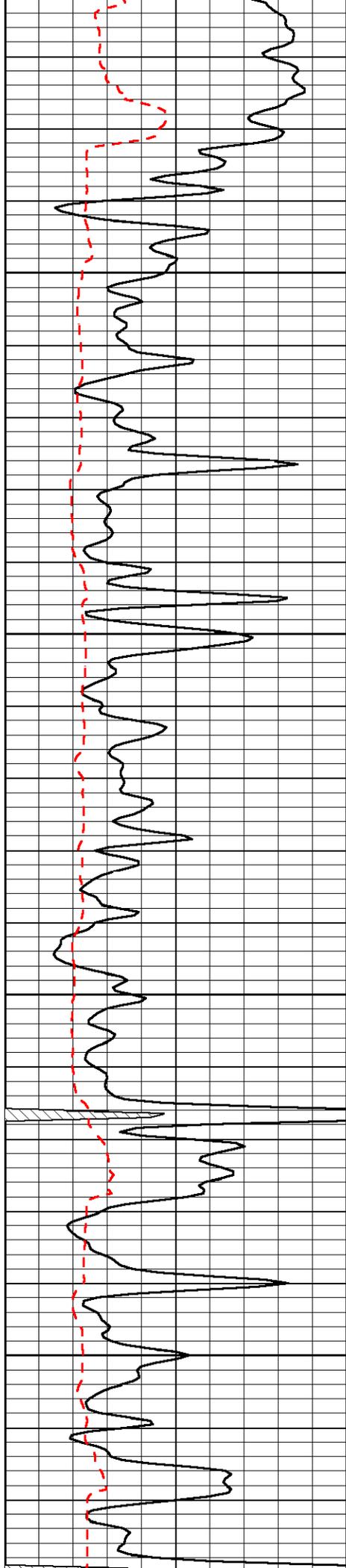


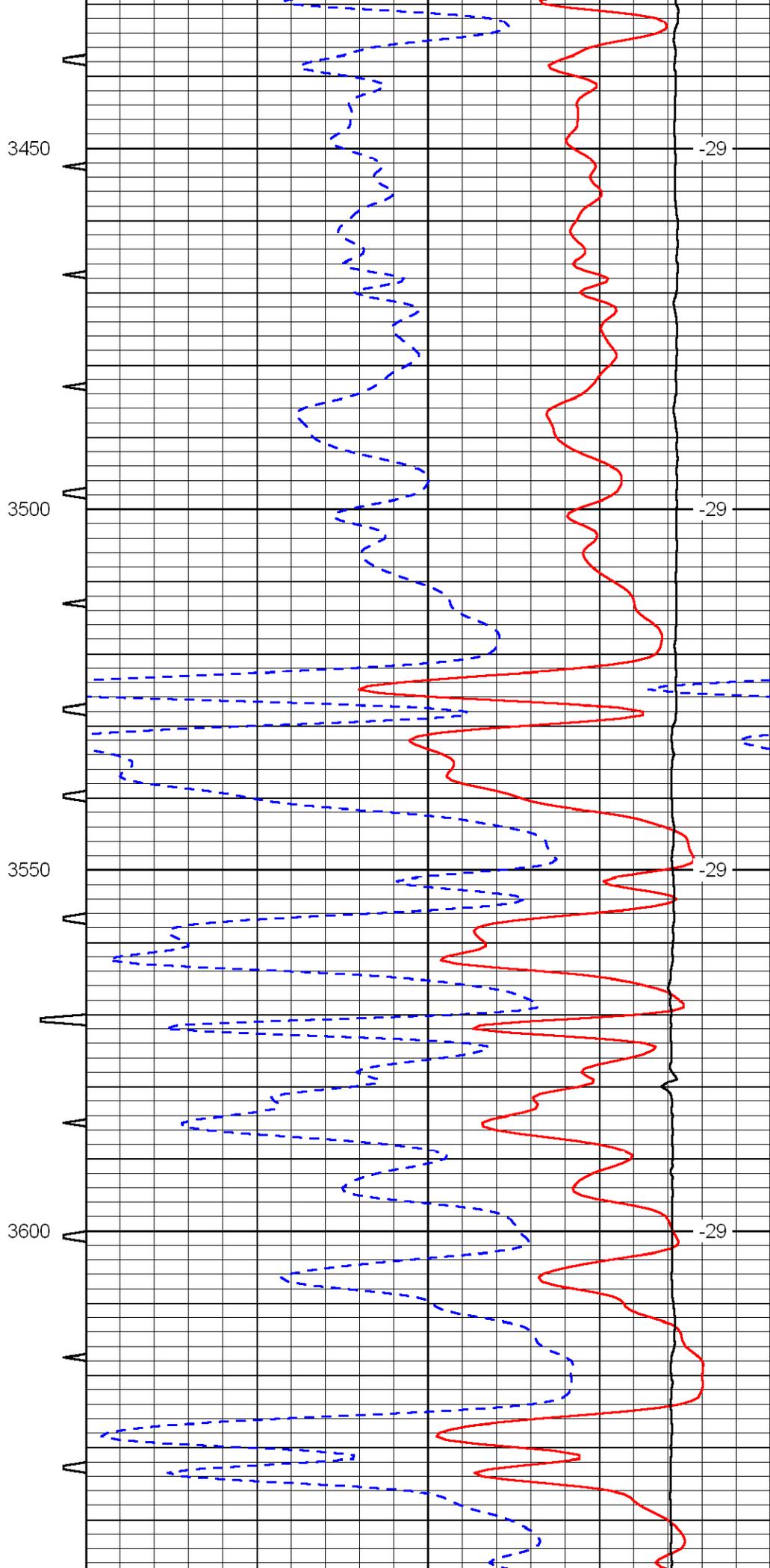
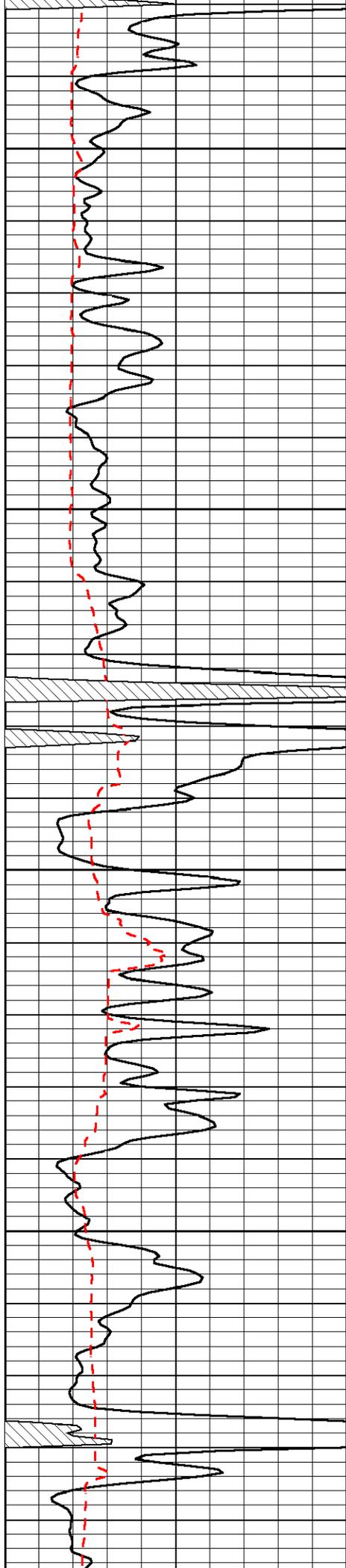


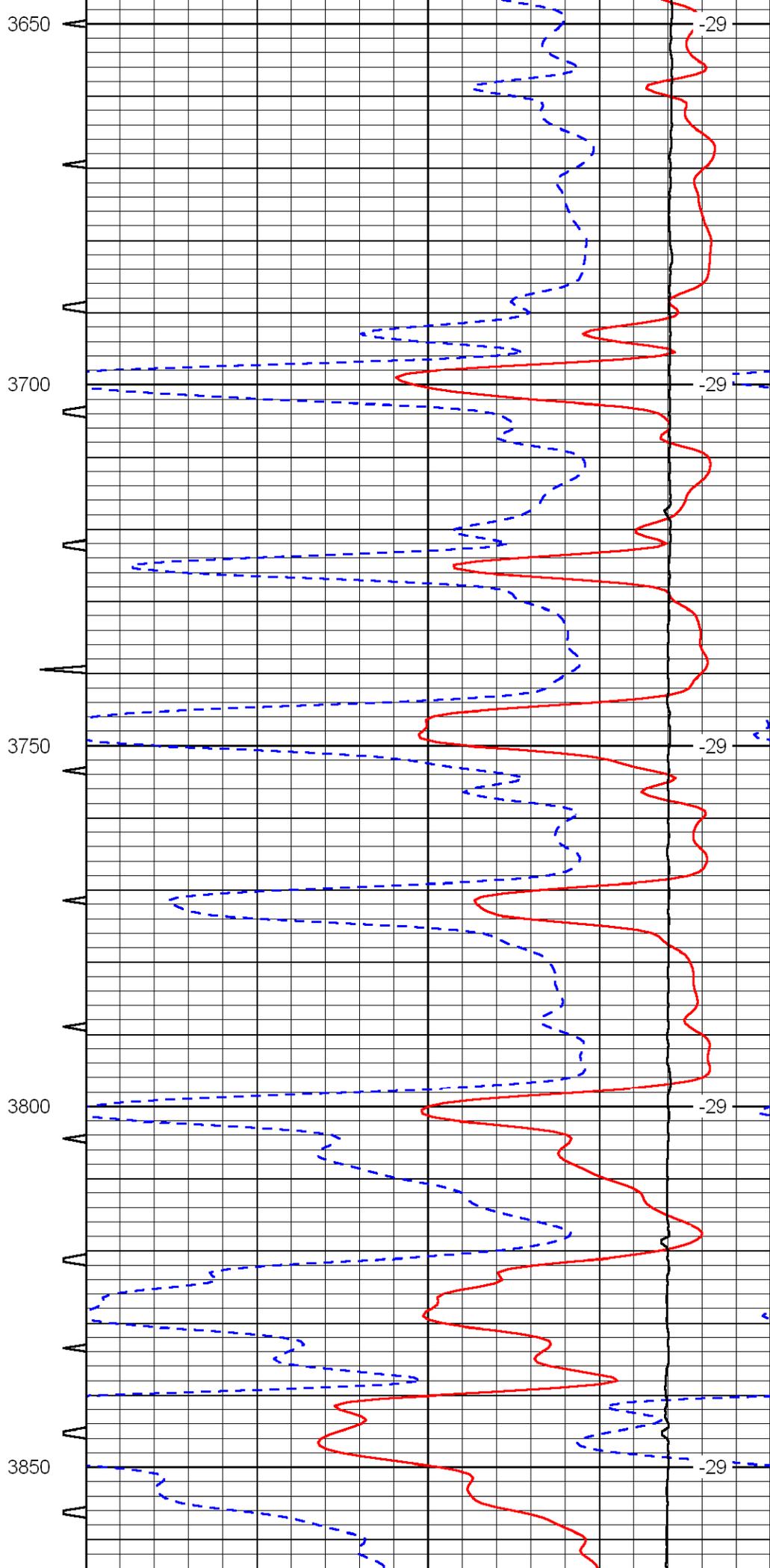
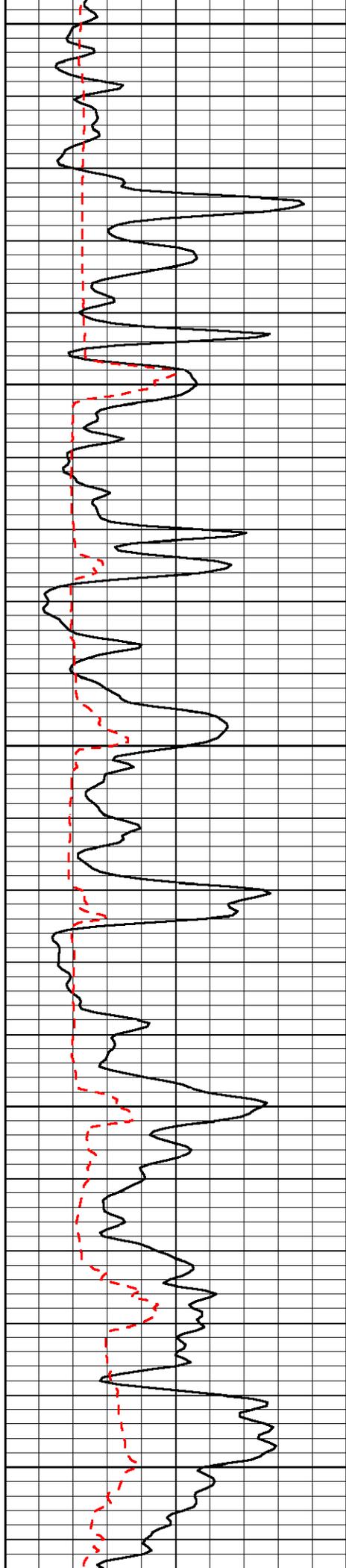


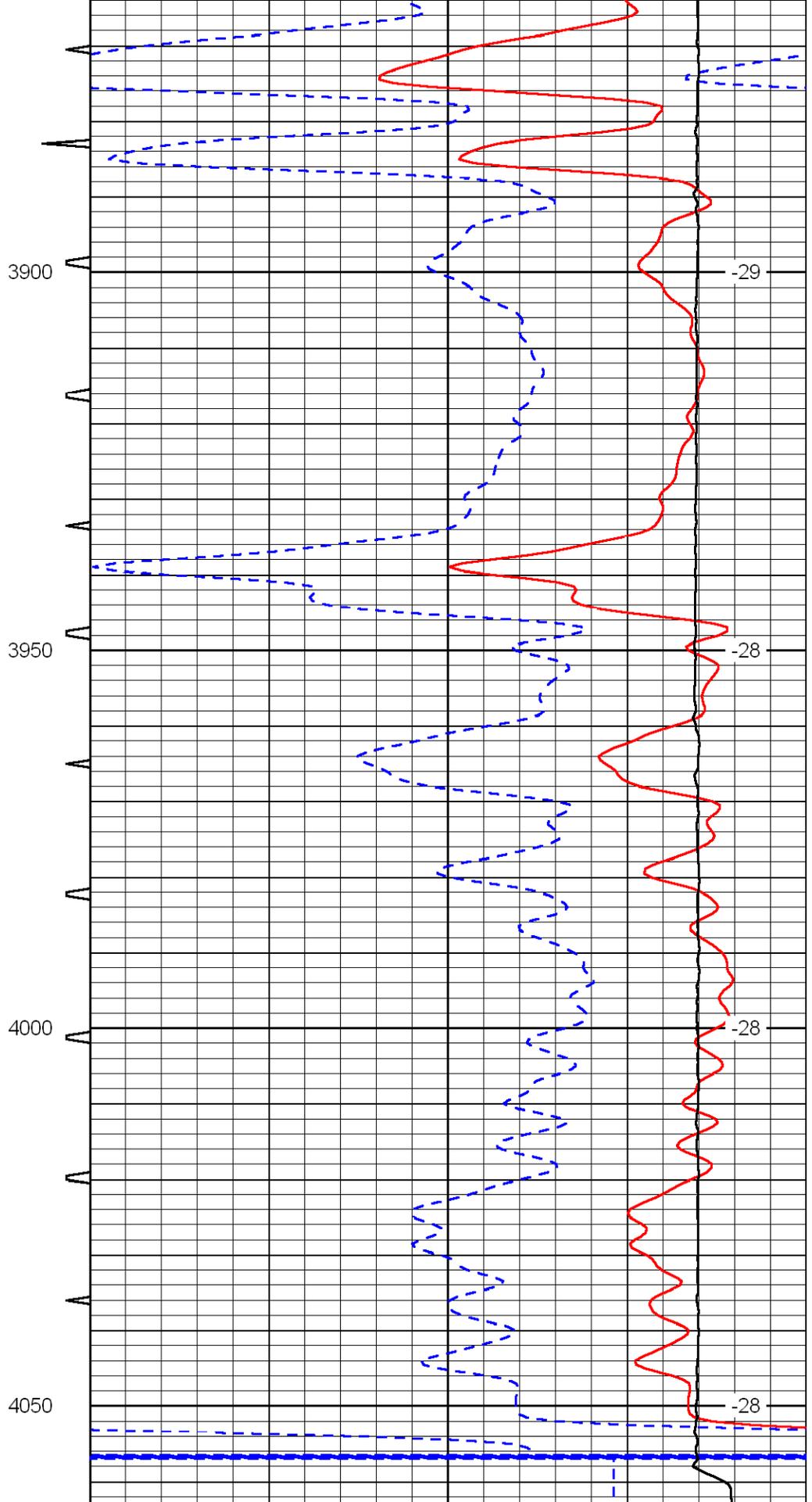
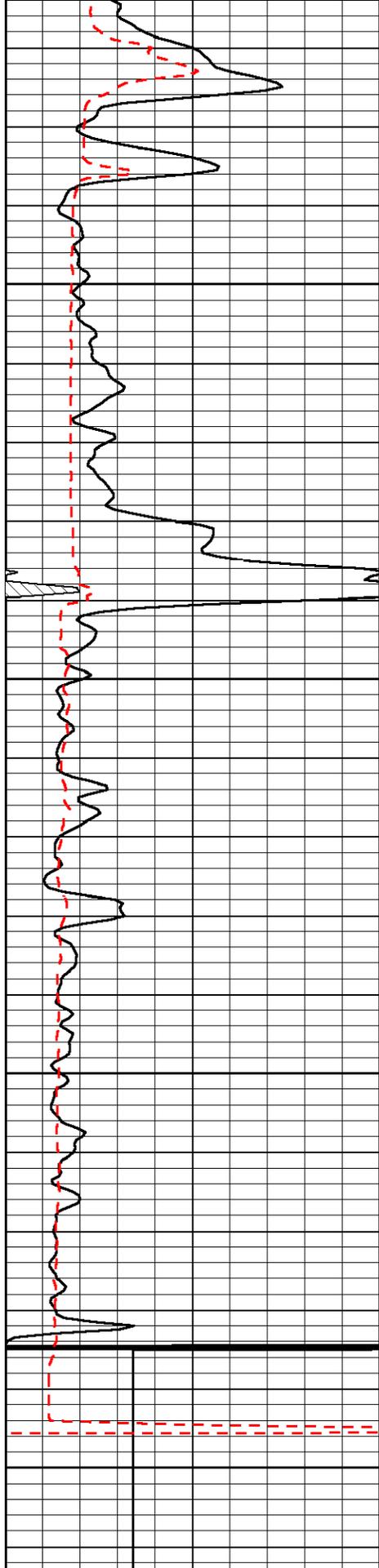












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LSPD

