



**Borehole Compensated  
Sonic Log**

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

API No.	15-109-20,912-00-00		
Company	MAK-J Energy Operating Company, L.L.C.		
Well	BH Berggren No. 13-5		
Field	Logan		
County	Logan		
State	Kansas		
Location	707' FSL & 707' FWL		
Sec: 5	Twp: 14S	Rge: 32W	Elevation 2870
Permanent Datum	Ground Level	Kelly Bushing	11 Ft. Above Perm. Datum
Log Measured From	Kelly Bushing		
Drilling Measured From	Kelly Bushing		
Date	6/6/2010		

Run Number	Two
Type Log	BHC Sonic
Depth Driller	4220
Depth Logger	4220
Bottom Logged Interval	4209
Top Logged Interval	350
Type Fluid In Hole	Chemical
Salinity, PPM CL	5300
Density	9.3
Level	Full
Max. Rec. Temp. F	120
Operating Rig Time	4 1/2 Hours
Equipment -- Location	10 Hays
Recorded By	J. Long
Witnessed By	Justin Carter

Borehole Record				Casing Record			
Run No.	Bit	From	To	Size	Wgt.	From	To
1	12.25	00	352	8.625	24#	00	352
2	7.875	352	4220				

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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**

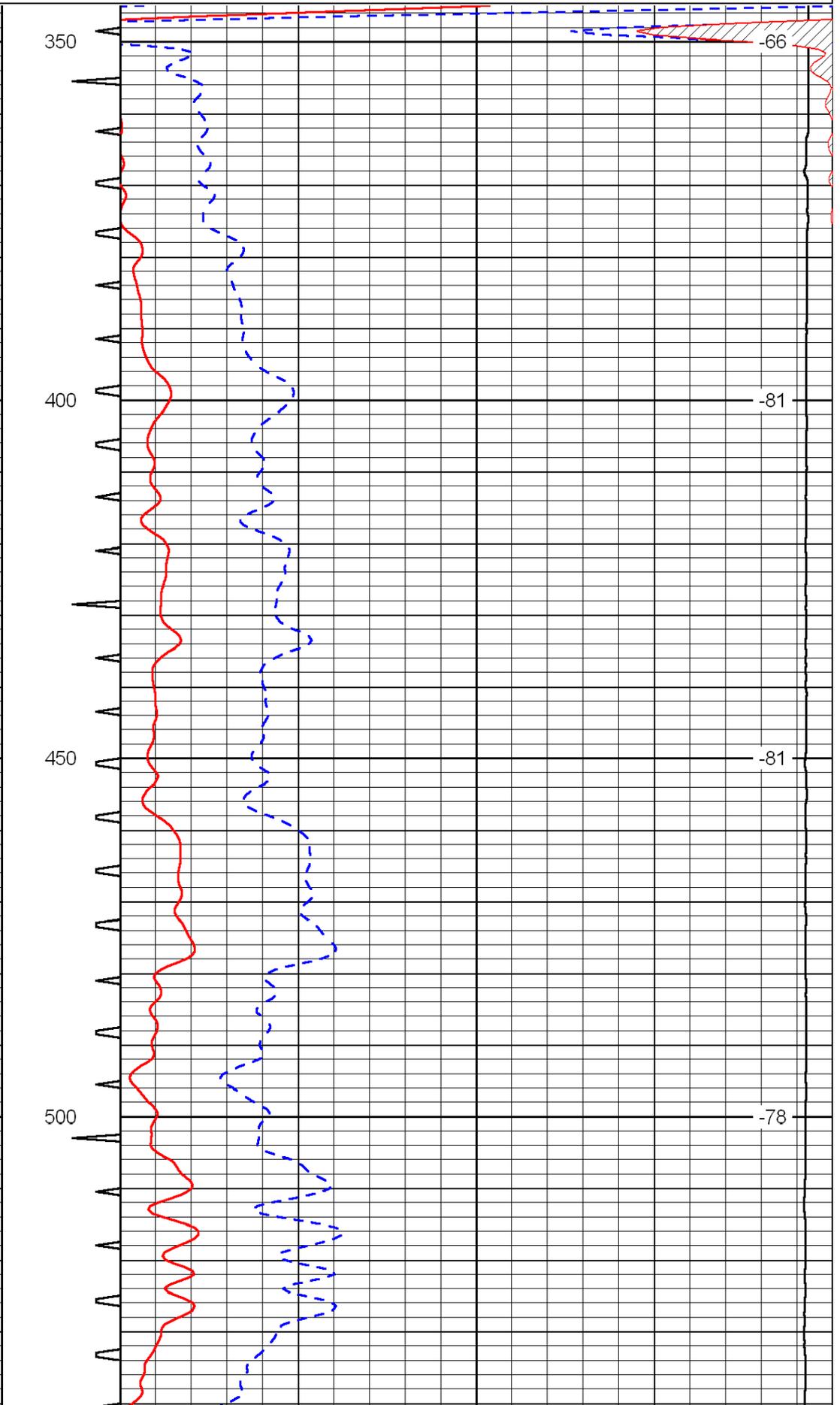
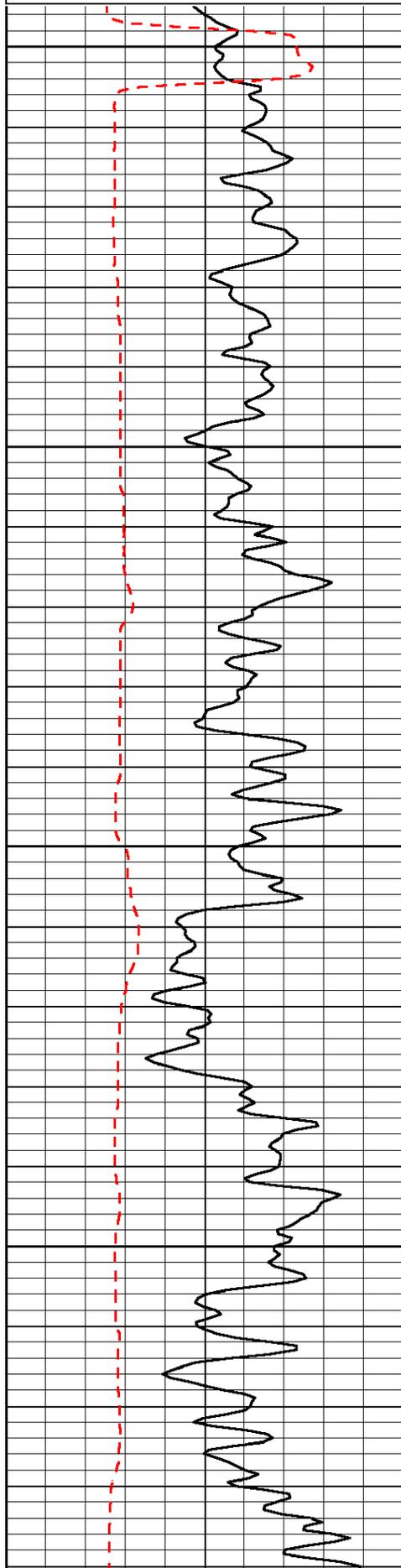
Thank you for using Log-Tech, Inc.  
(785) 625-3858

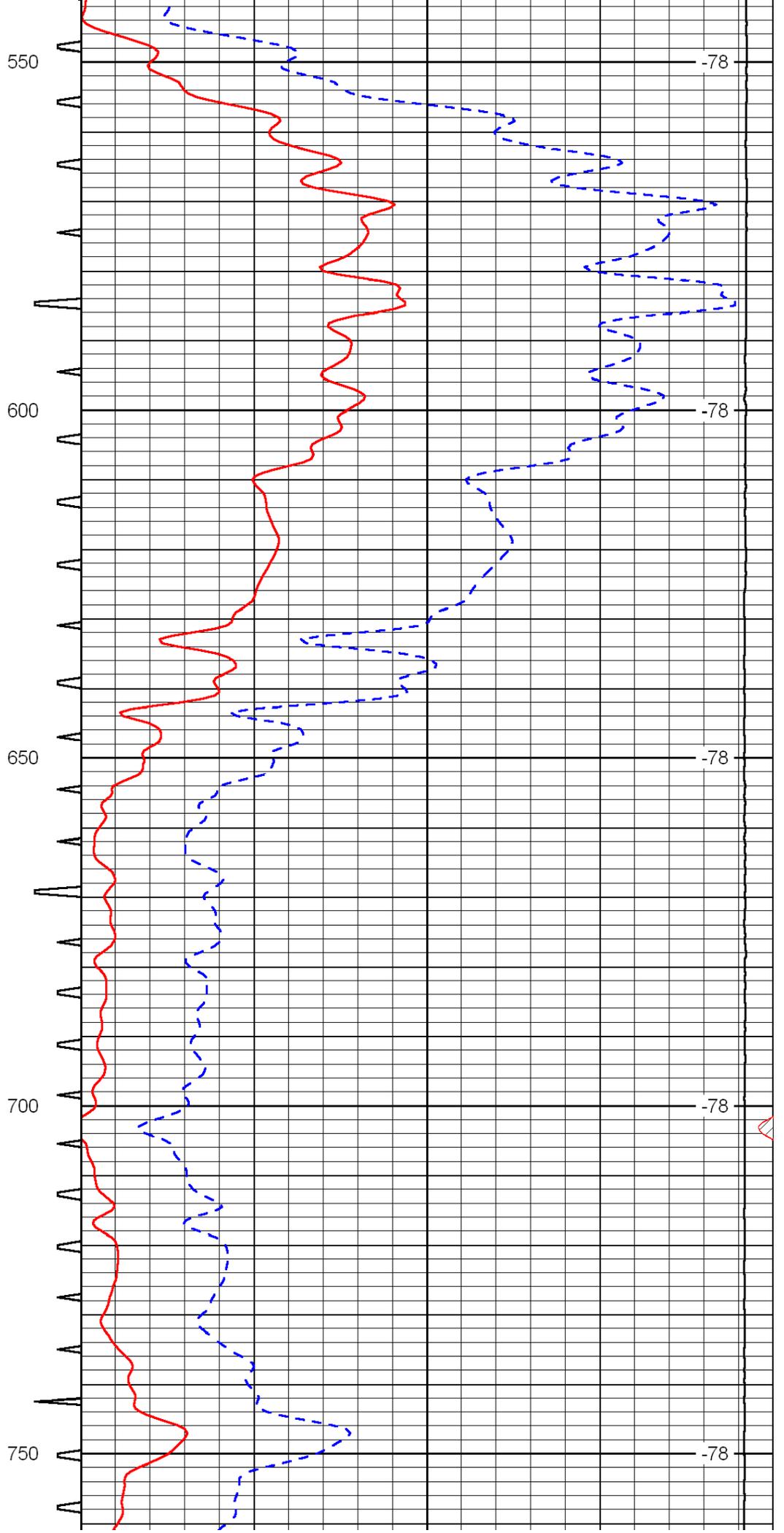
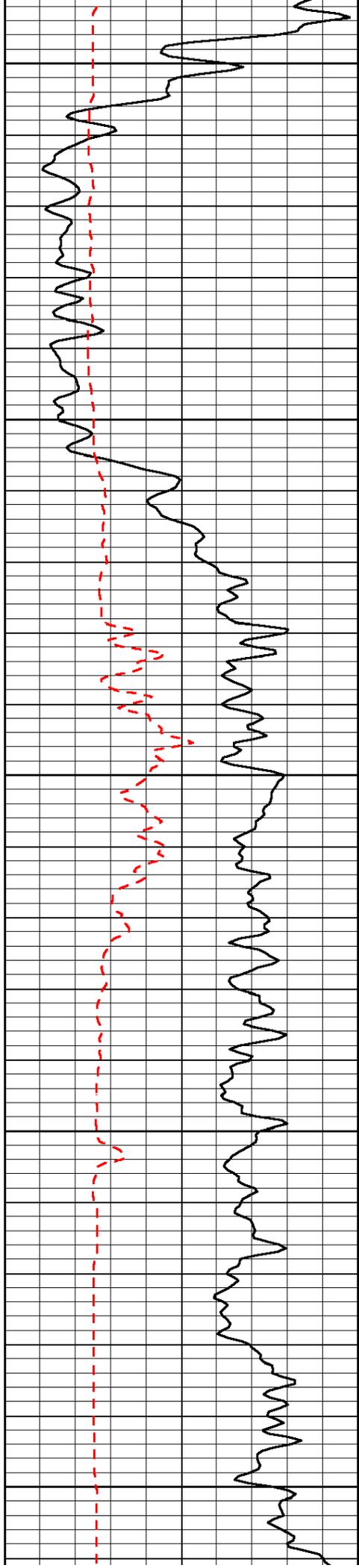
Oakley, 17 South to Mustang Rd, 3 West, 1 South, East Into at Tank Batteries

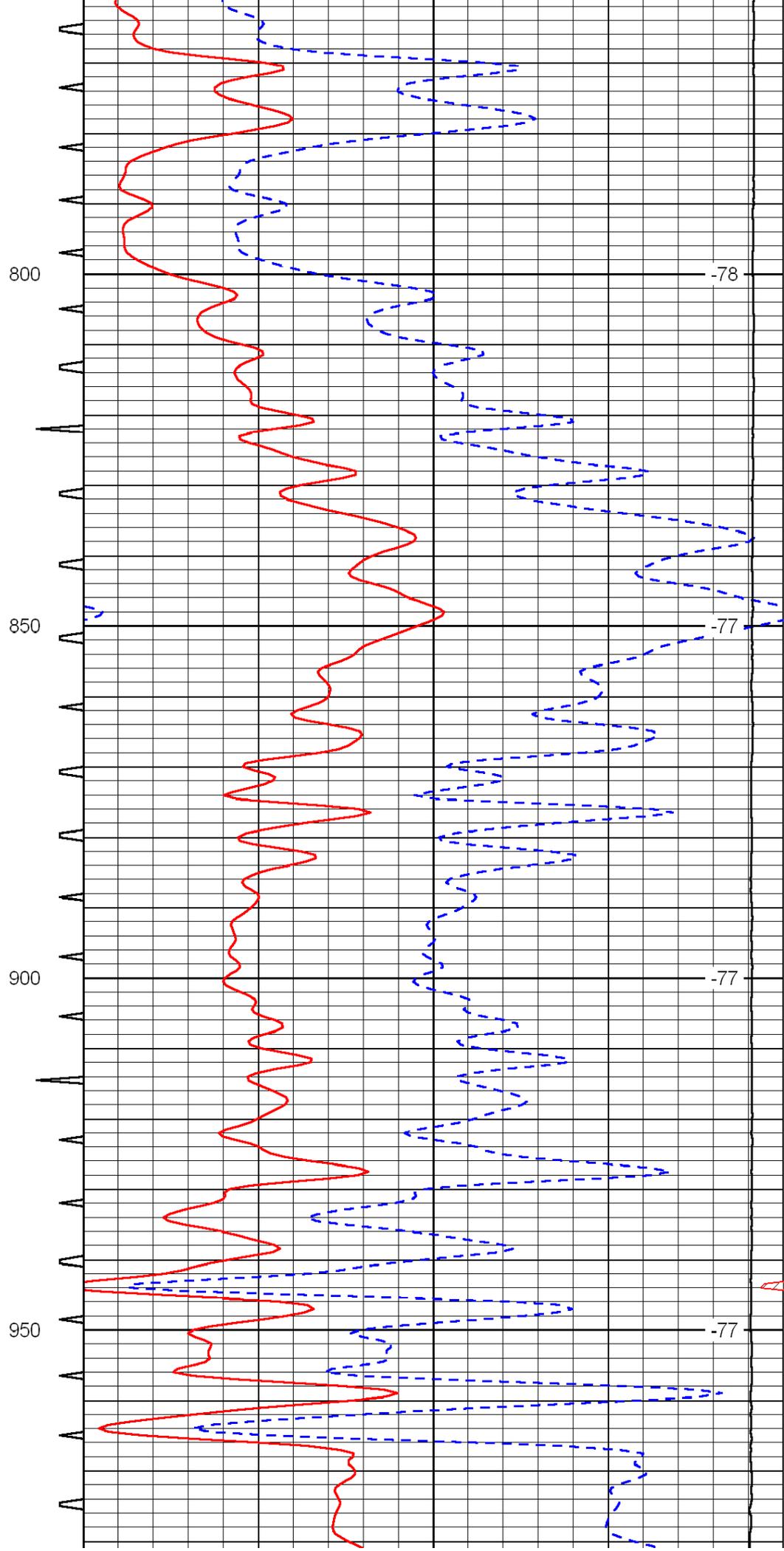
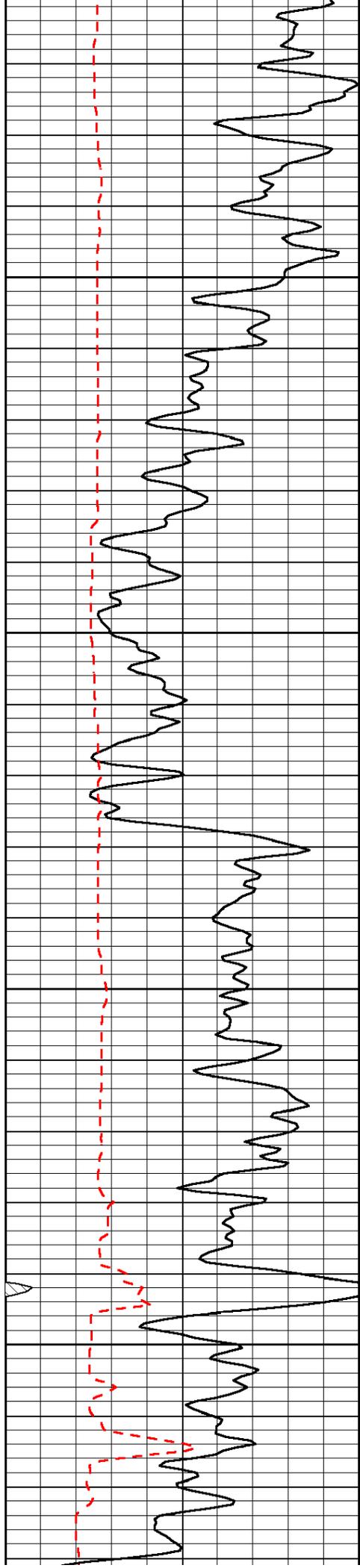
Database File: c:\warrior\data\mak-j\_bh berggren no. 13-5\makhd.db  
 Dataset Pathname: dil\makjstck  
 Presentation Format: sonic  
 Dataset Creation: Sun Jun 06 11:45:45 2010  
 Charted by: Depth in Feet scaled 1:240

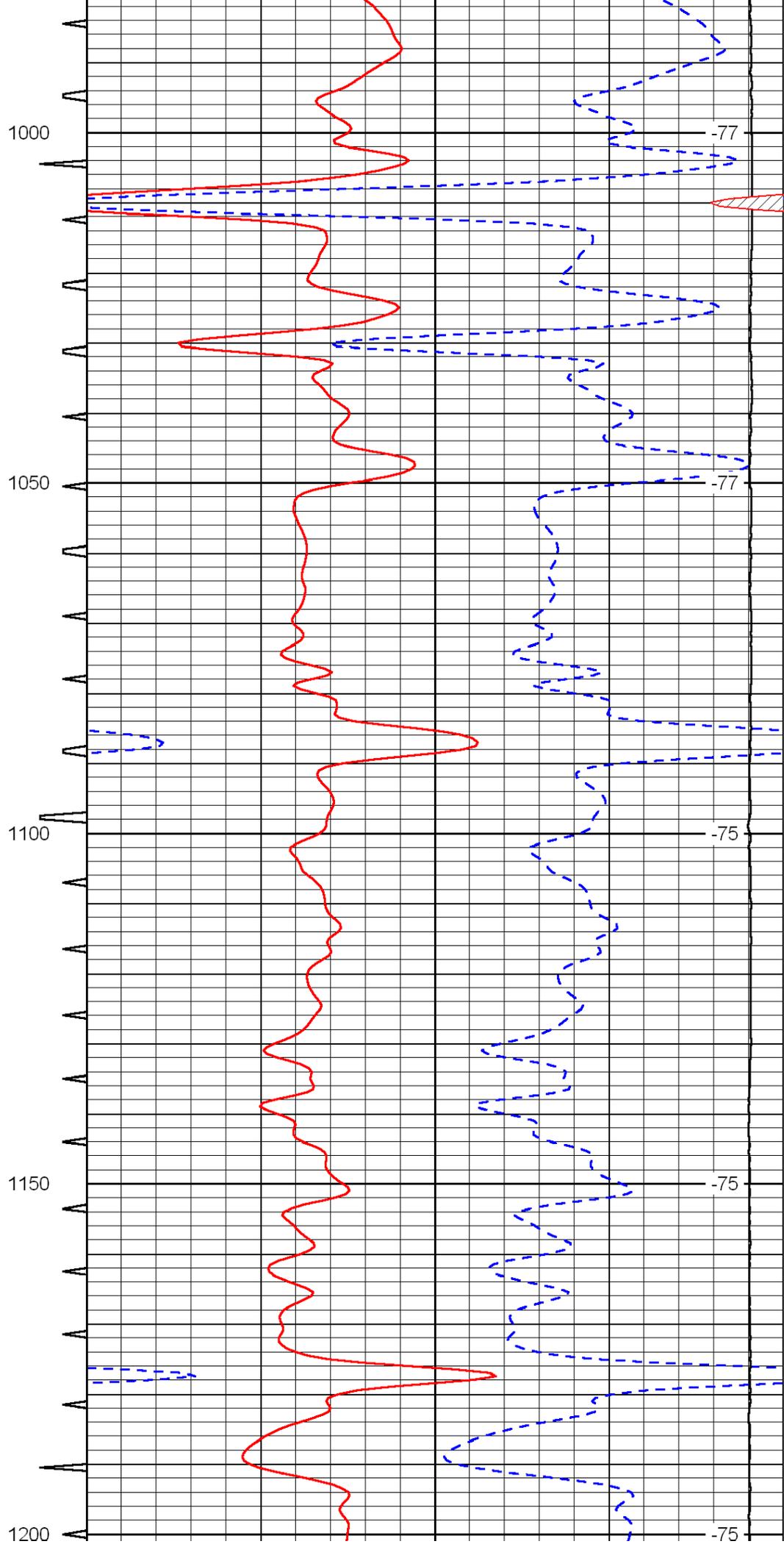
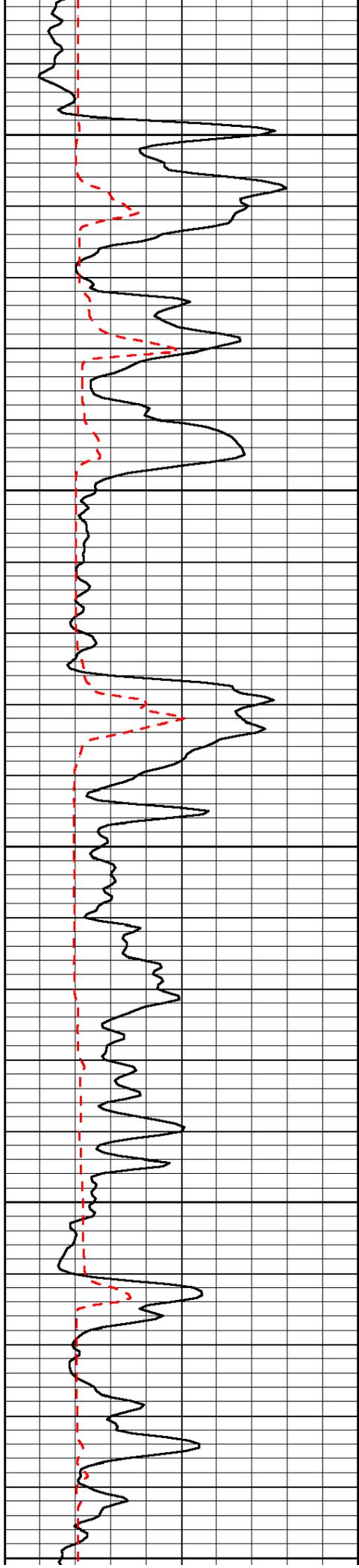
0	Gamma Ray	150	Sonic Int	140	Delta Time (usec/ft)	40
150	Gamma Ray	300	5	0	SPOR	-10
6	Caliper (GAPI)	16		15000	LTEN (lb)	0

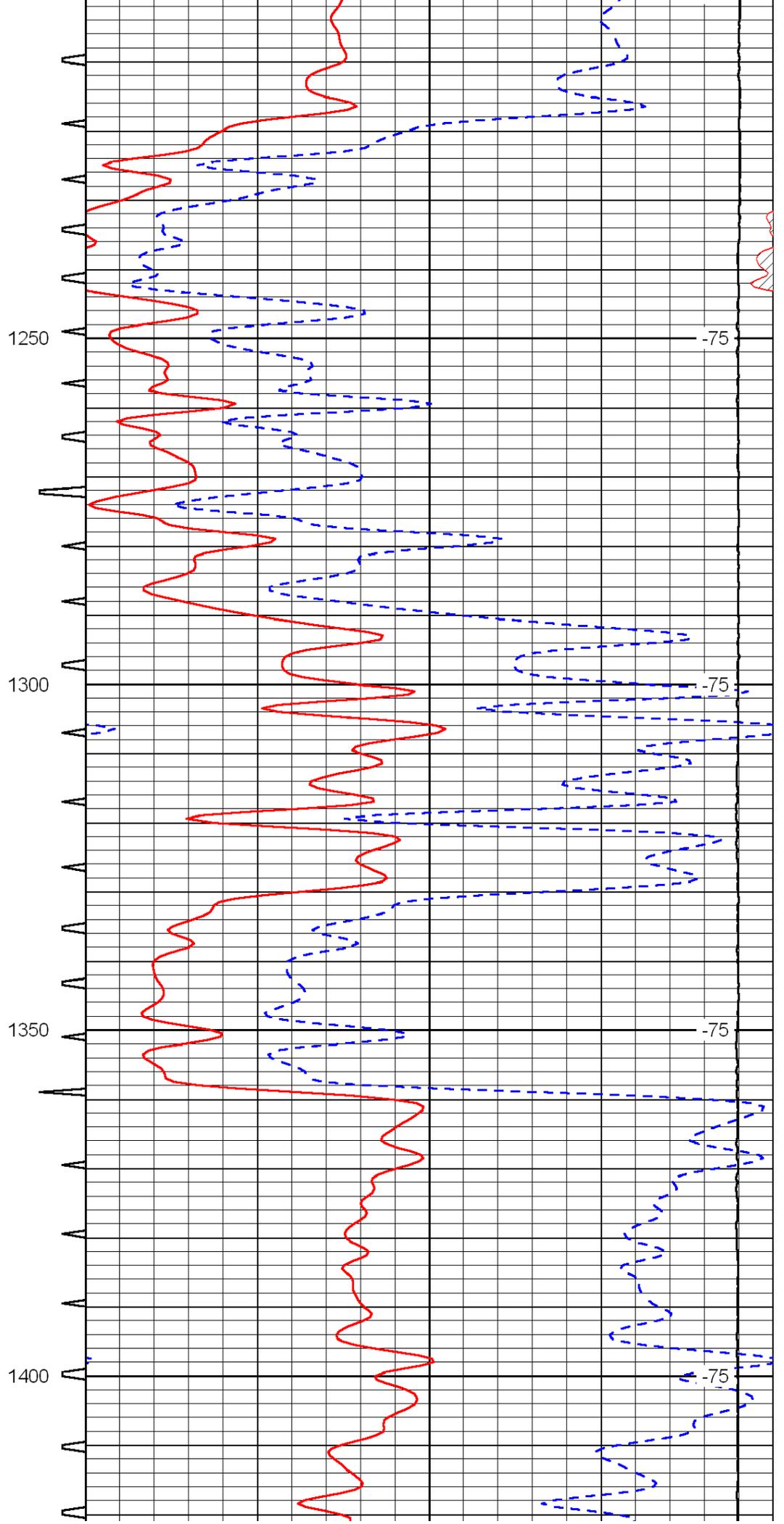
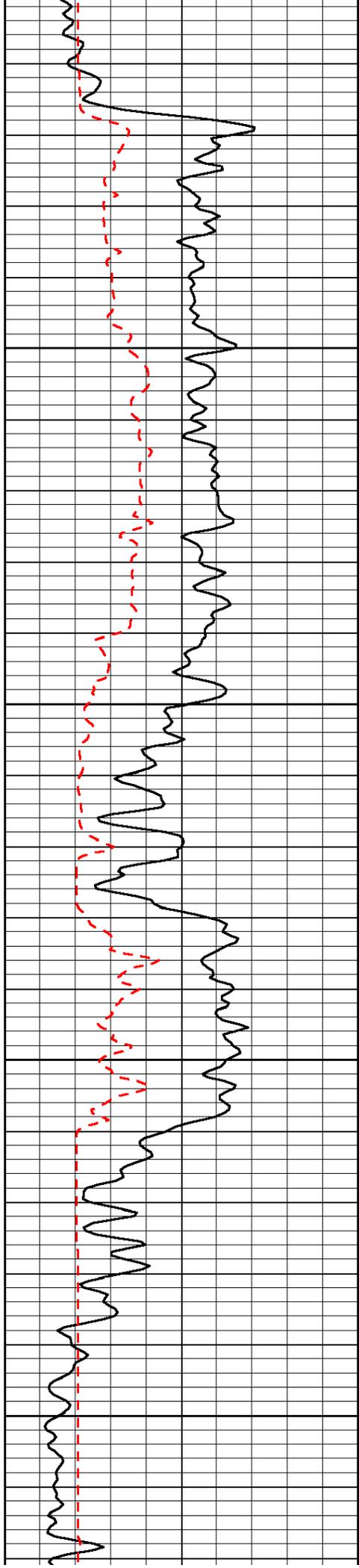
LSPD

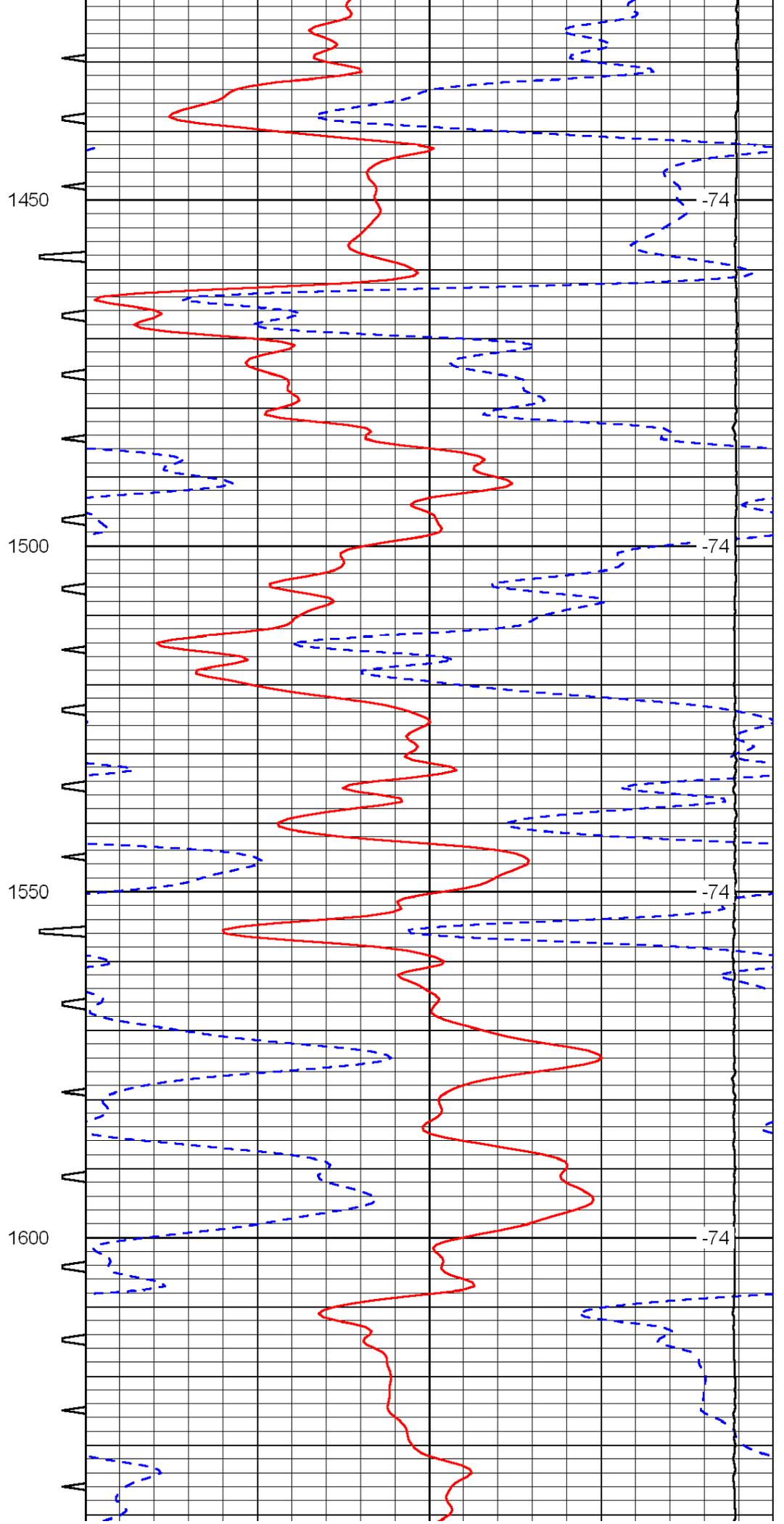
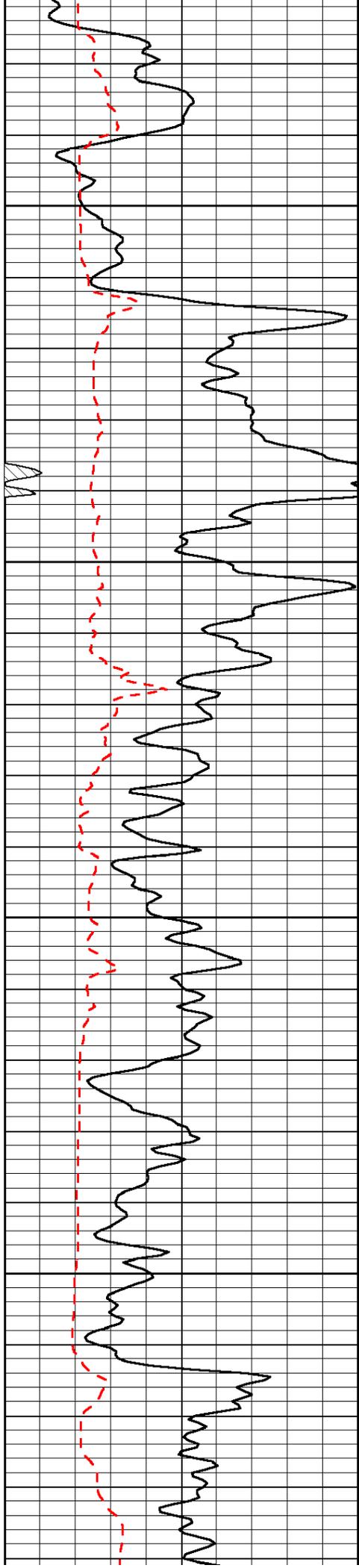


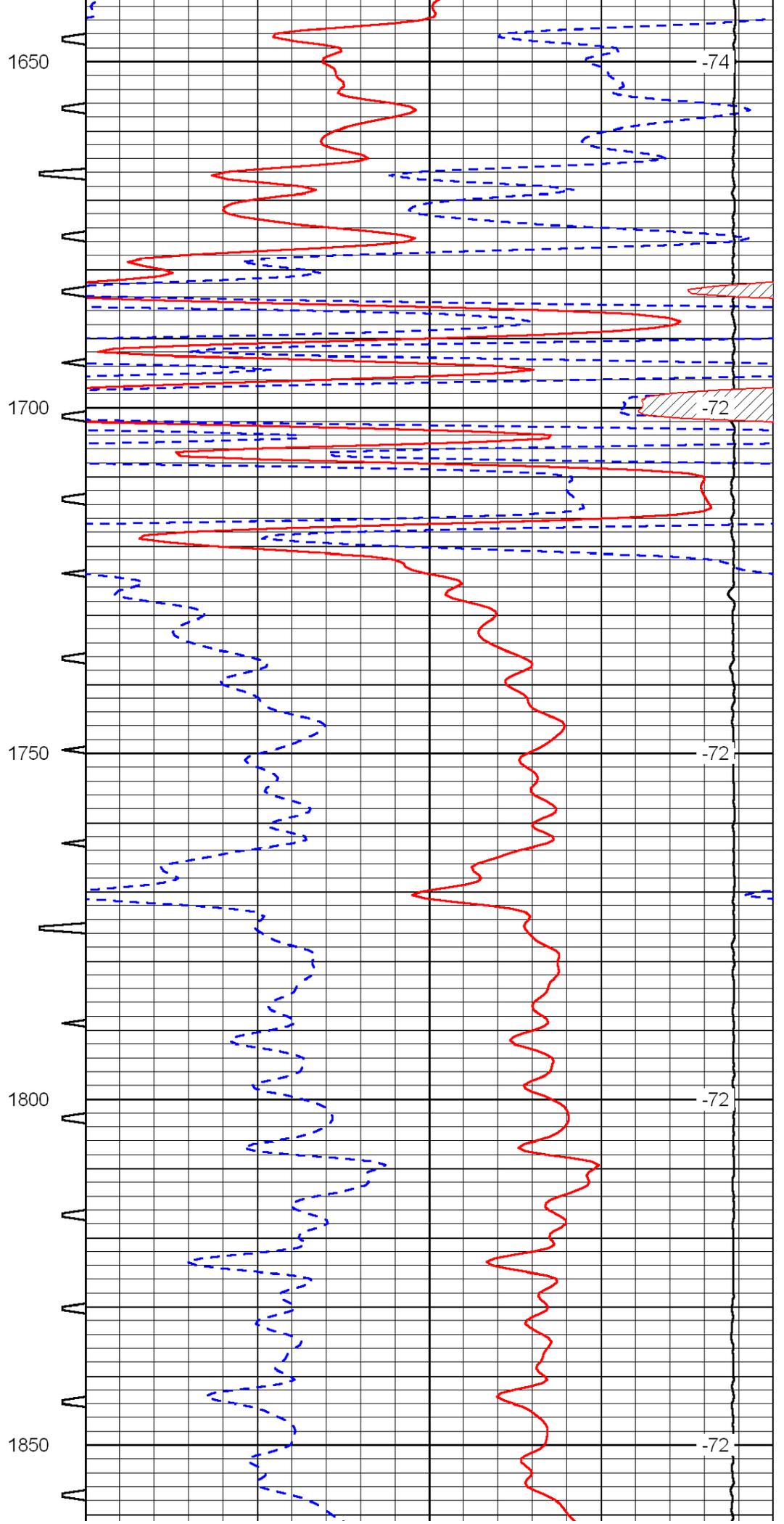
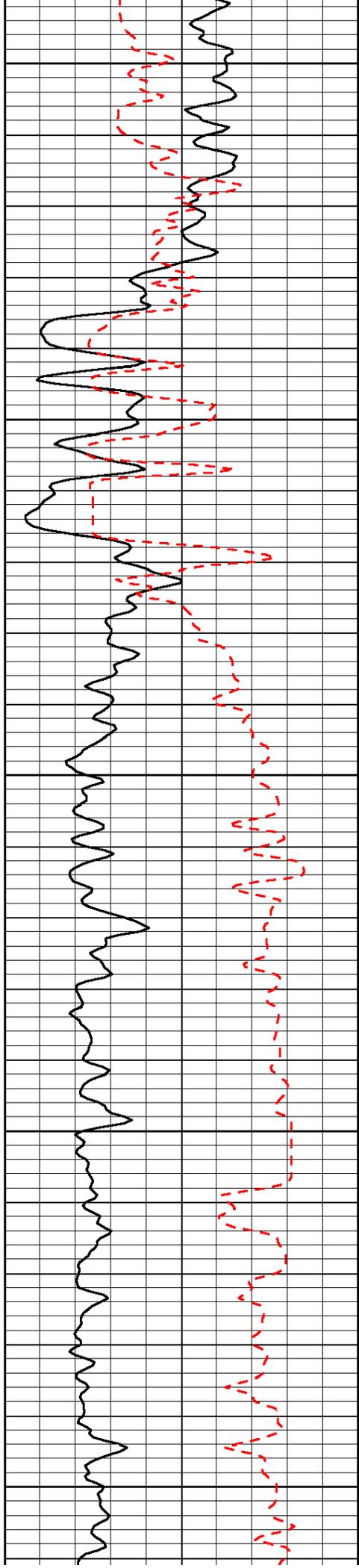


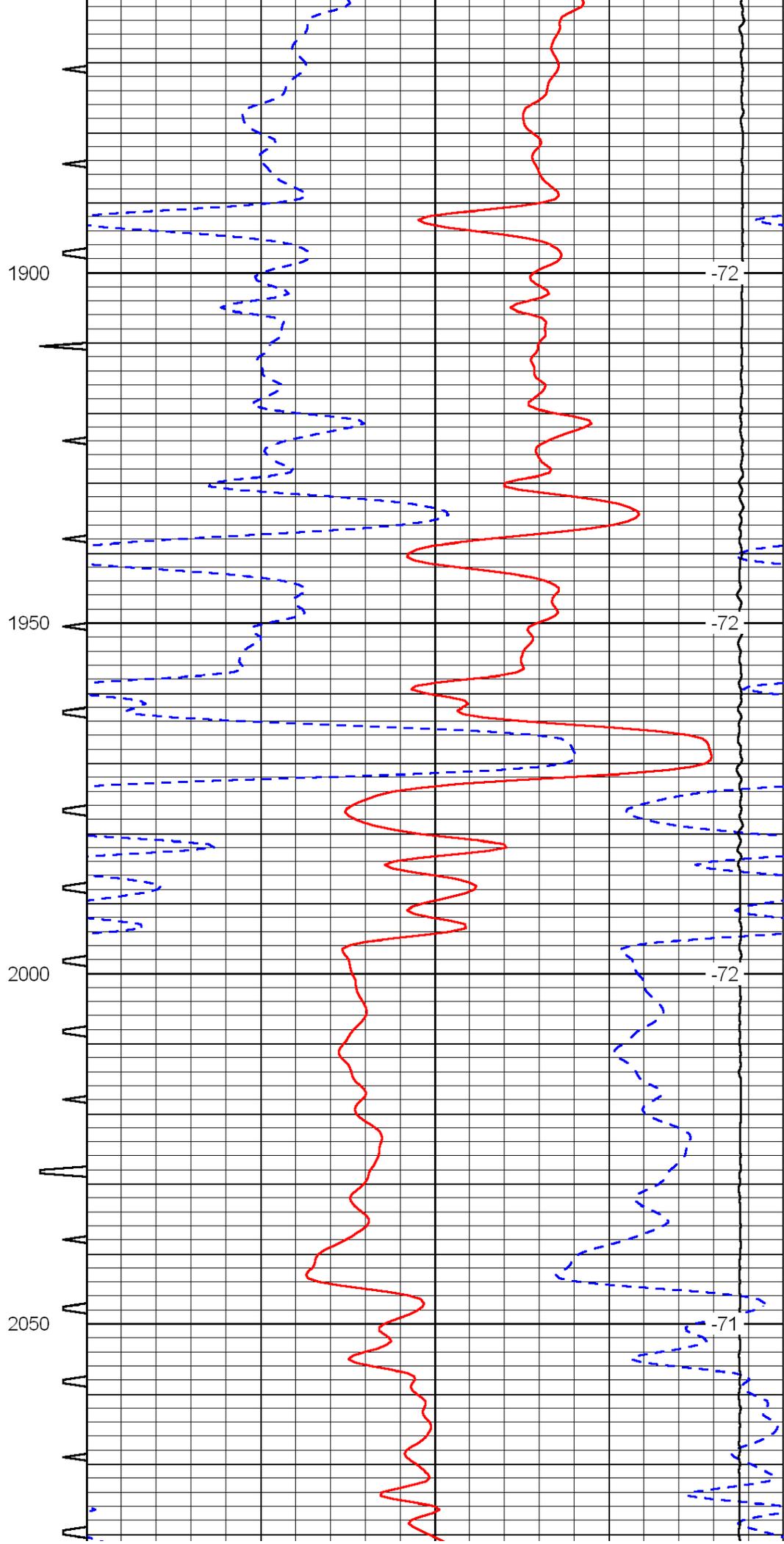
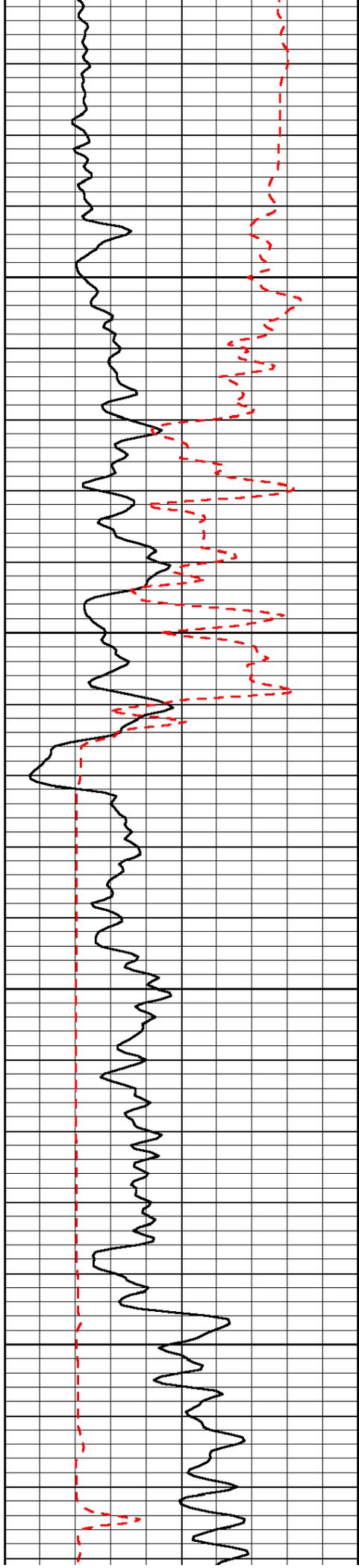


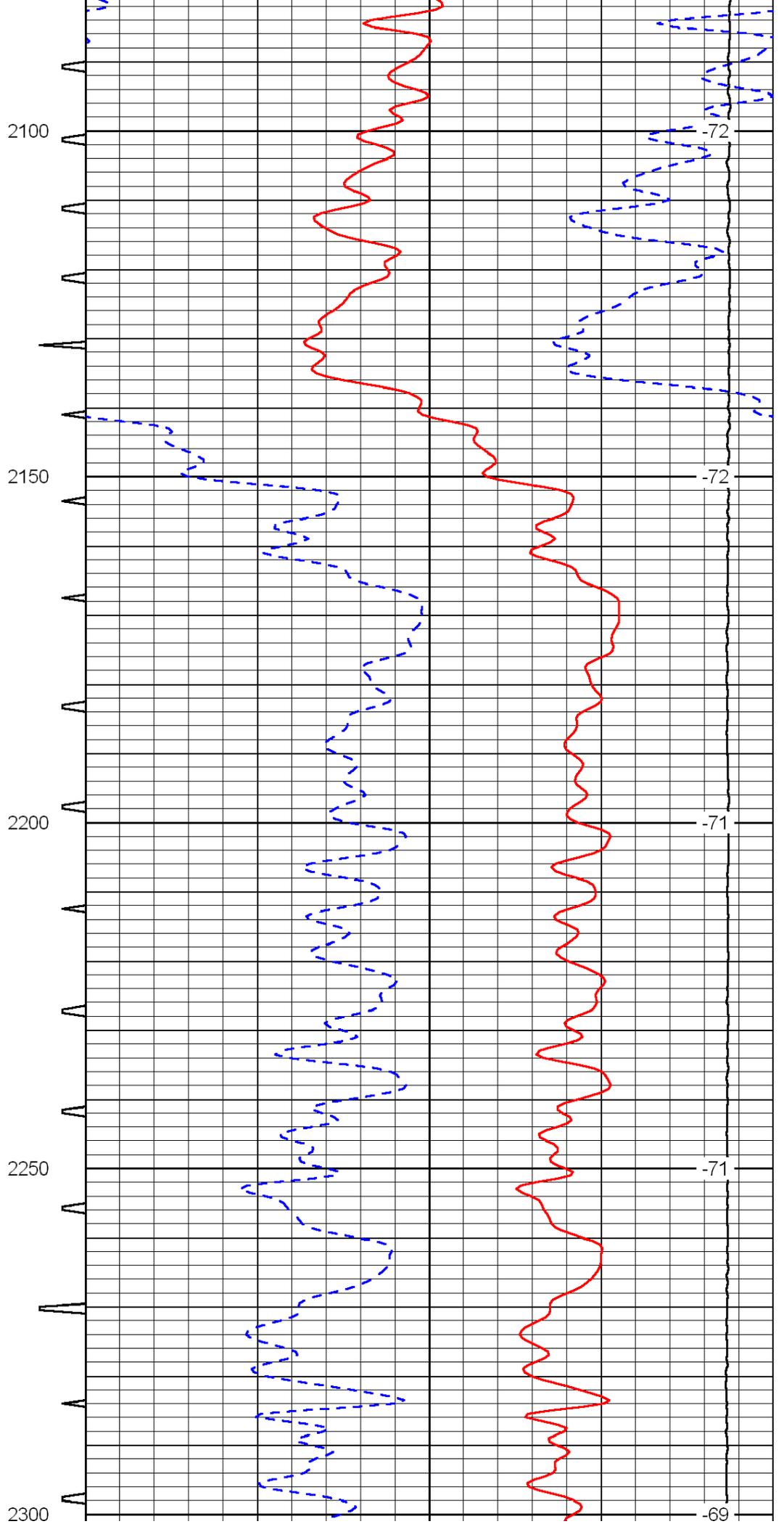
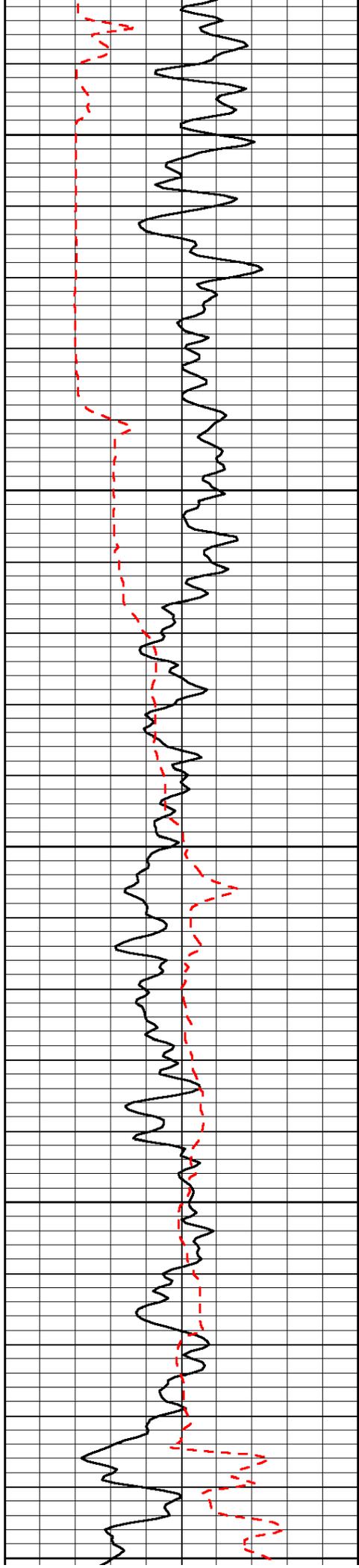


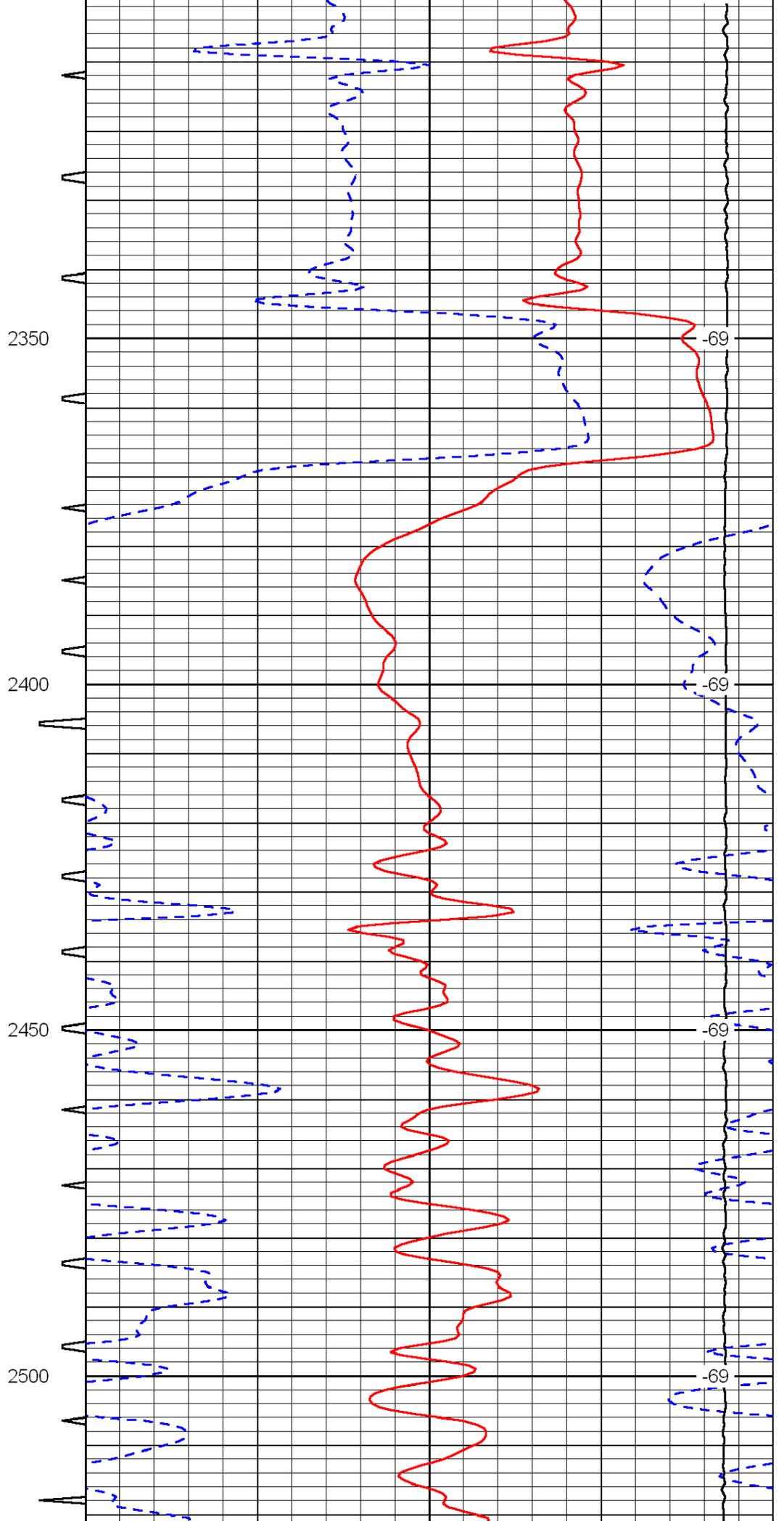
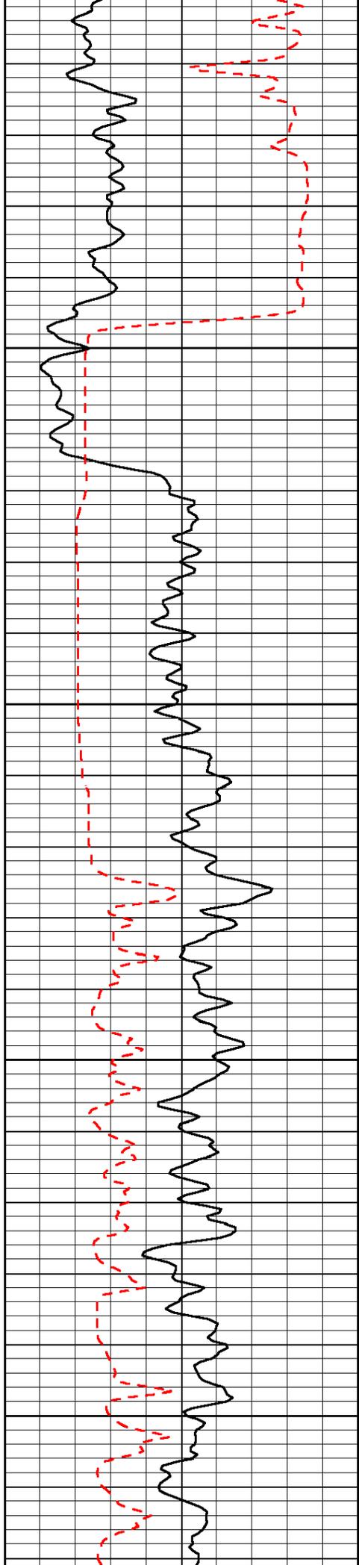


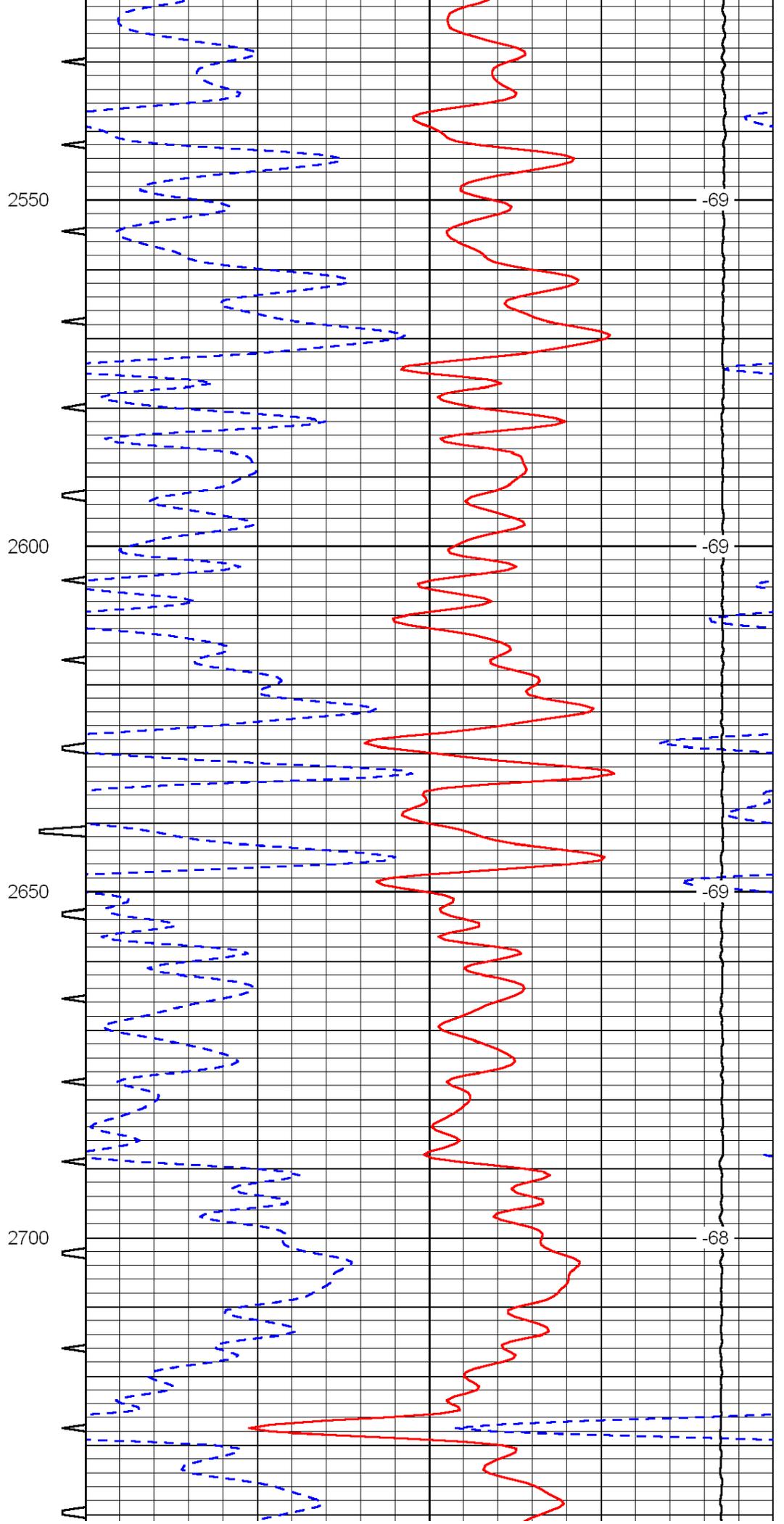
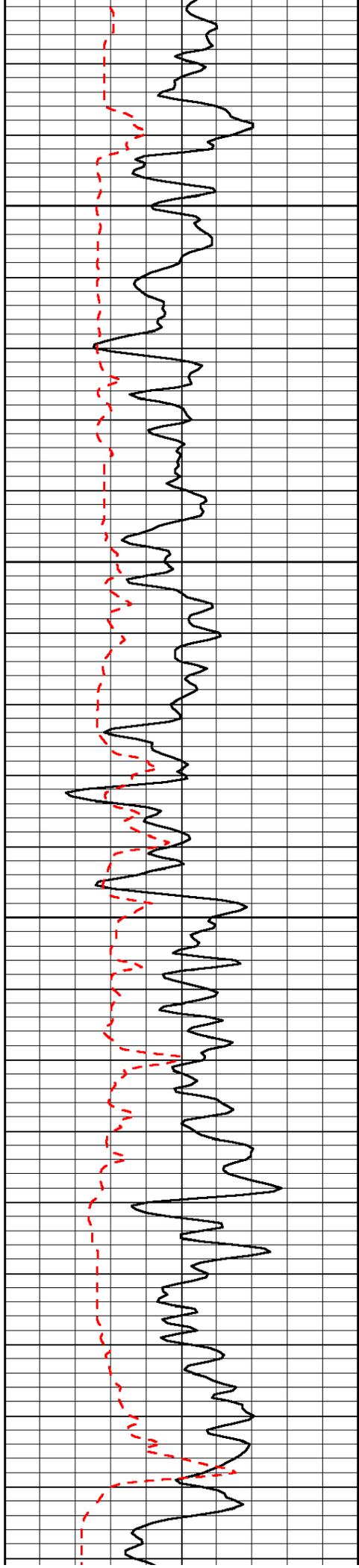


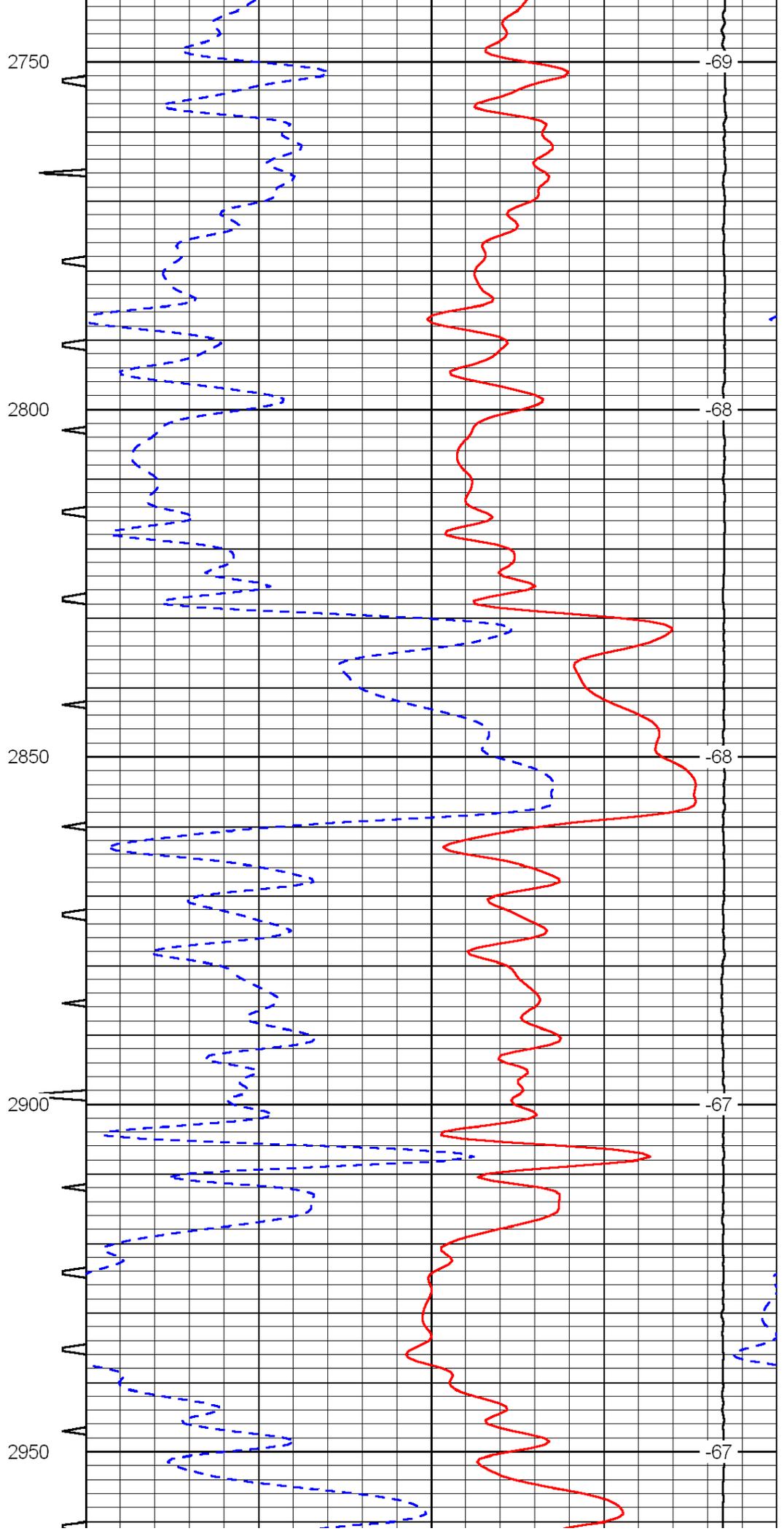
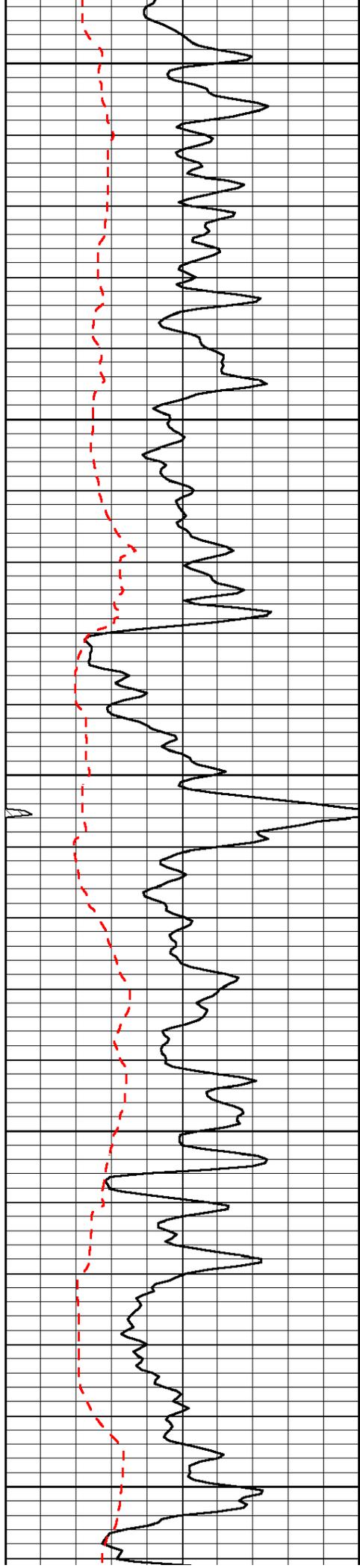


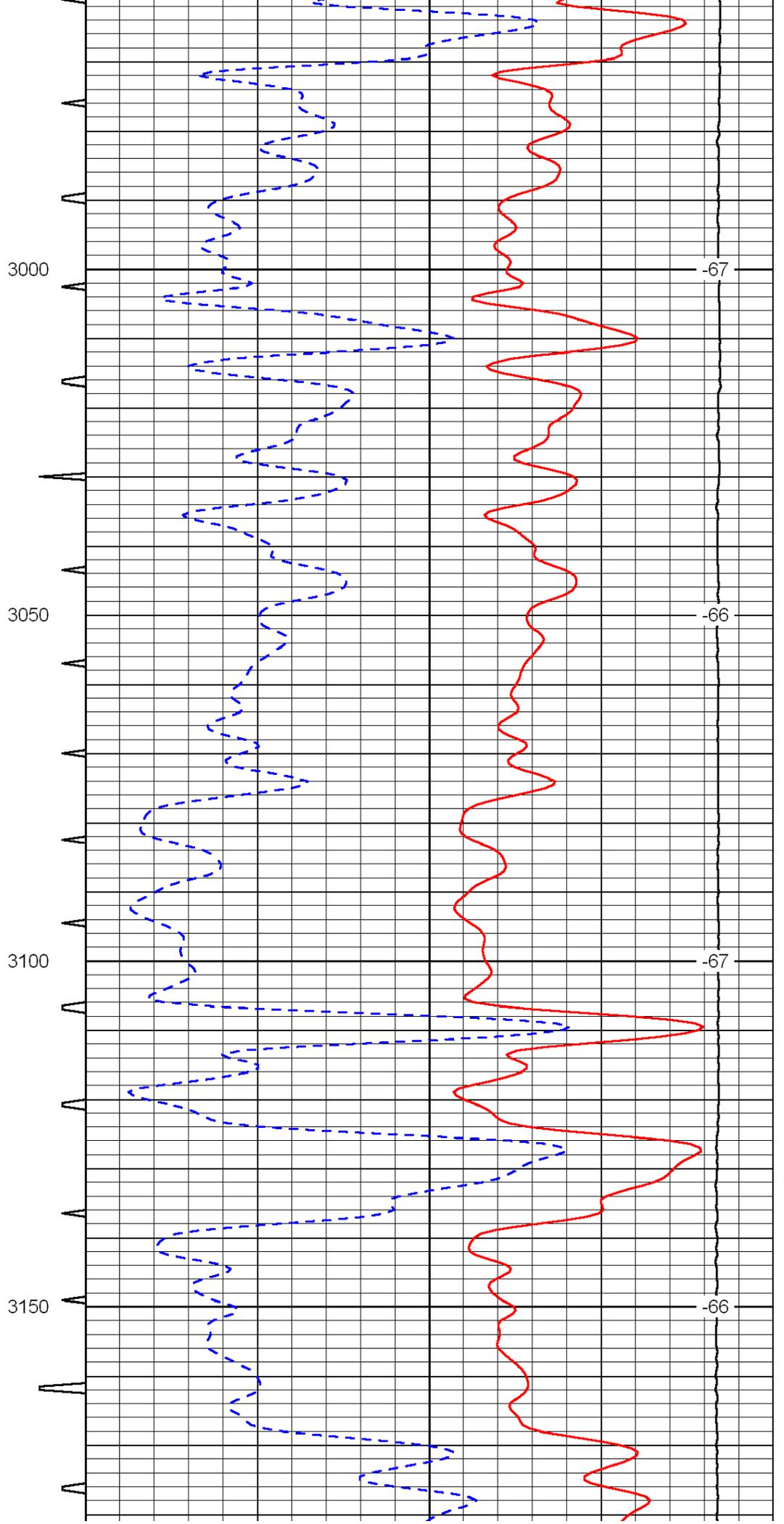
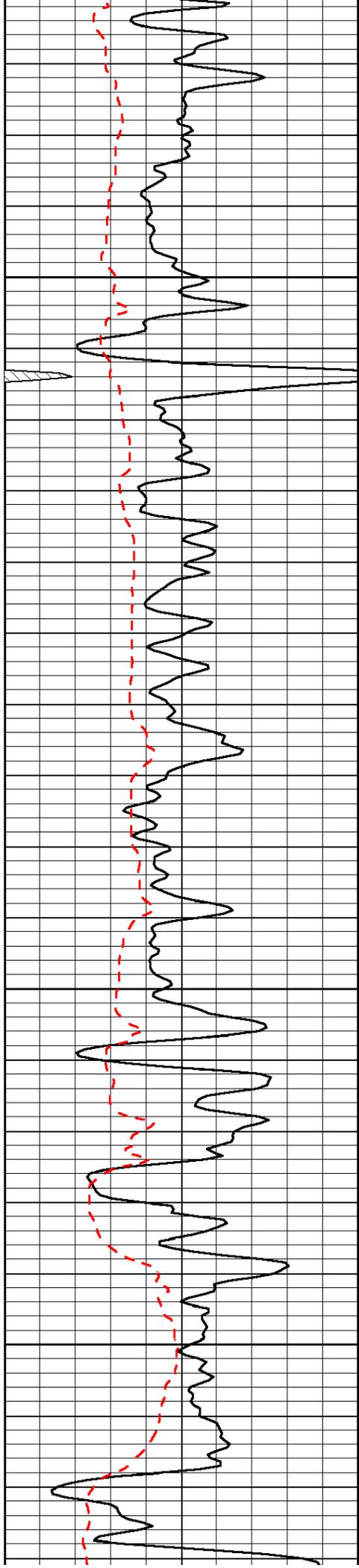




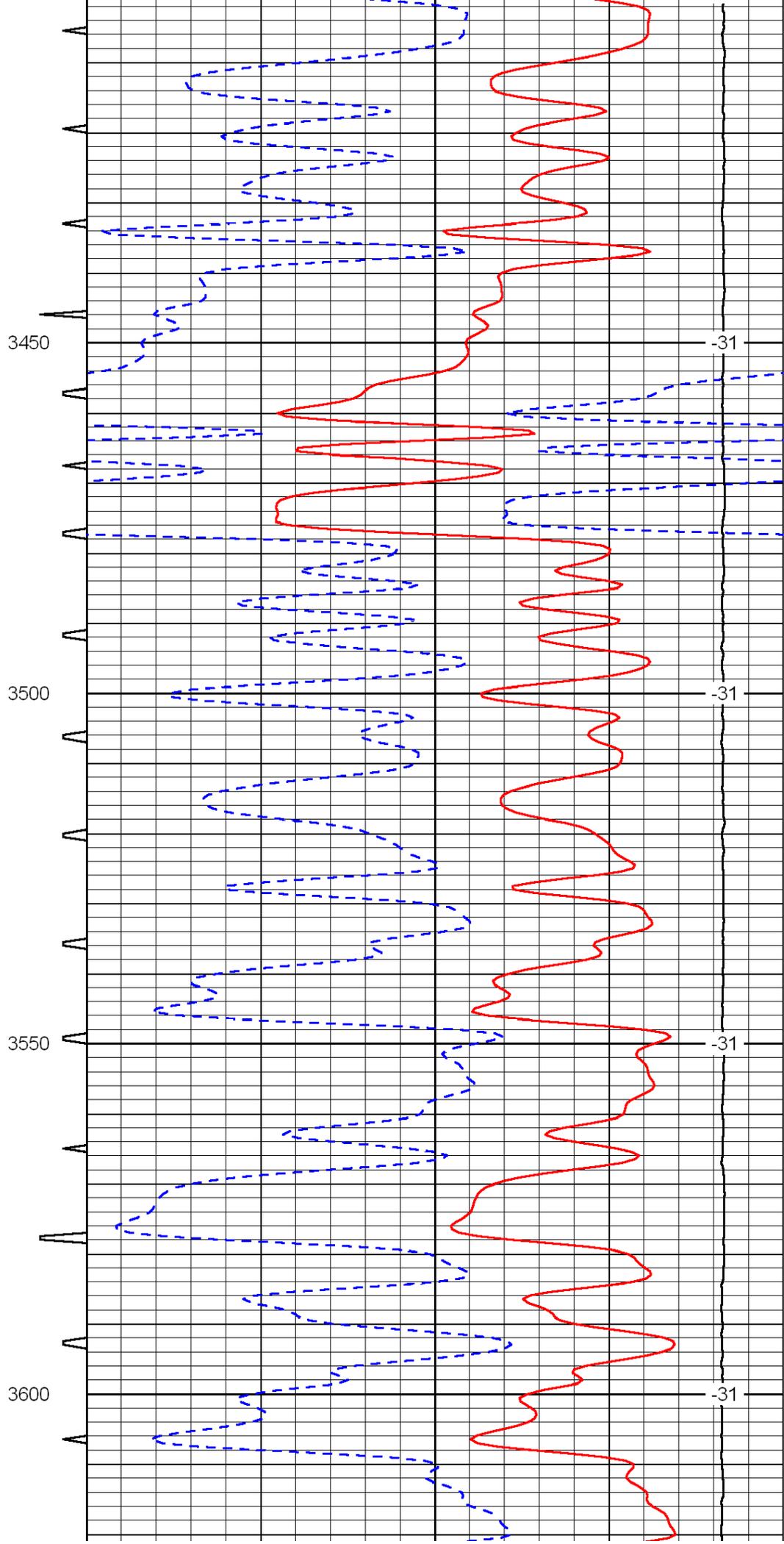
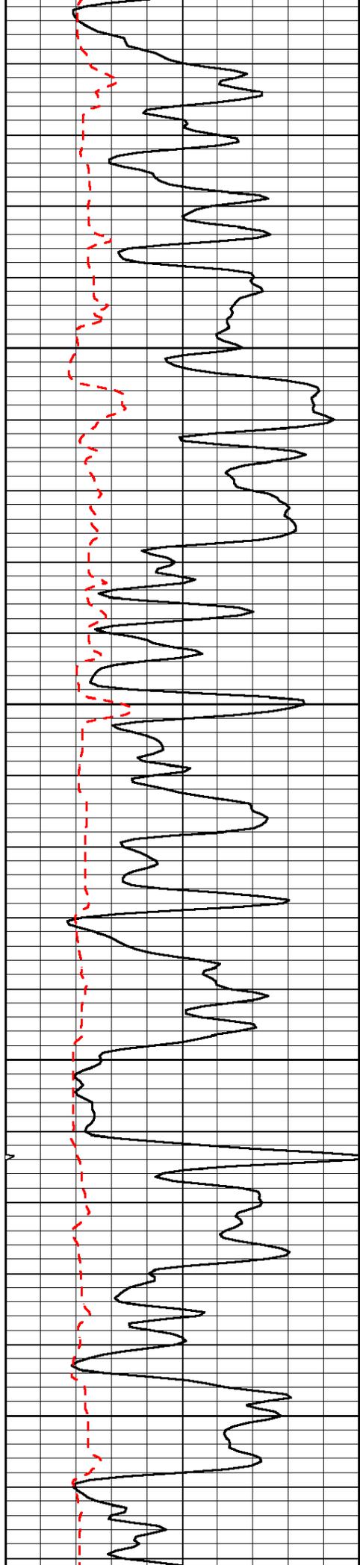


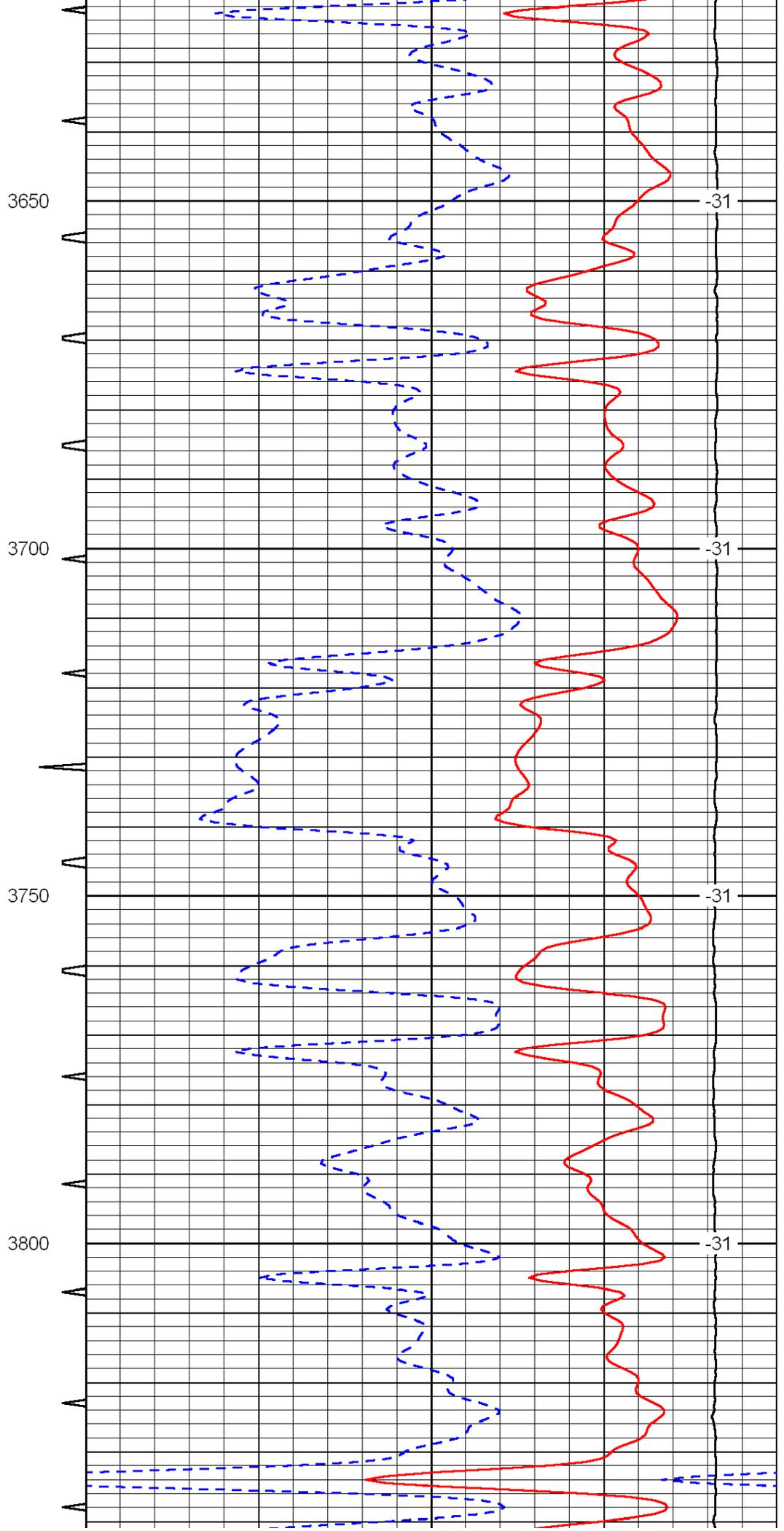
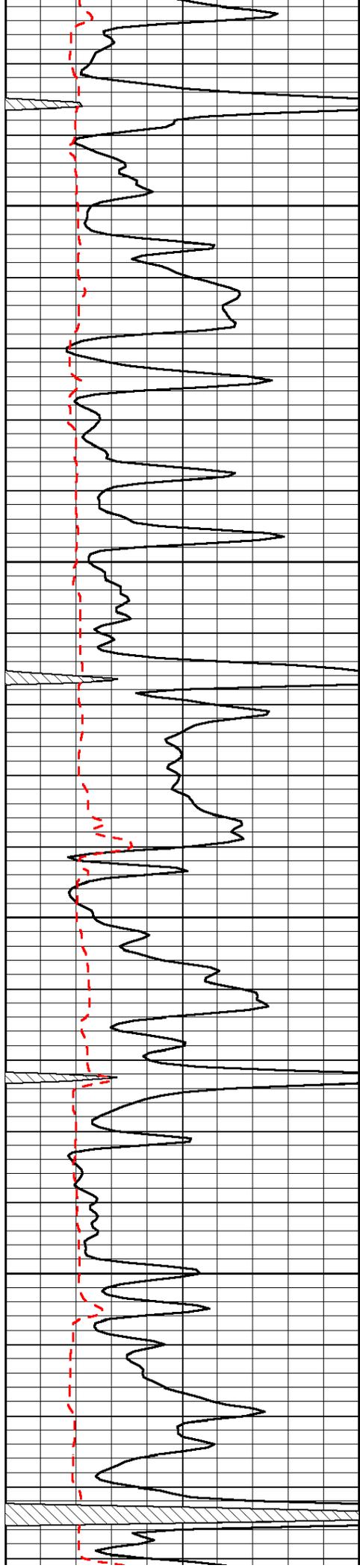


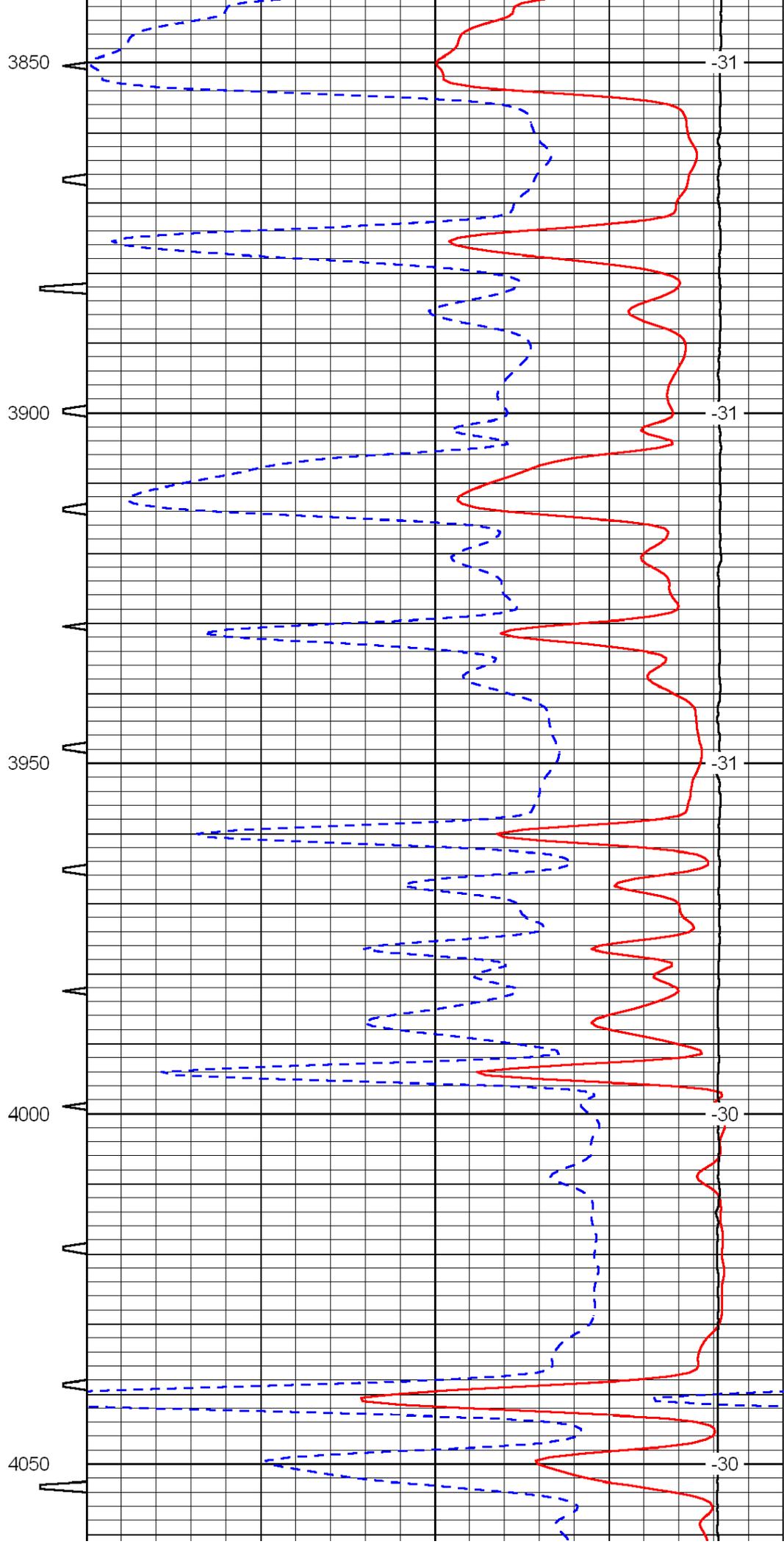
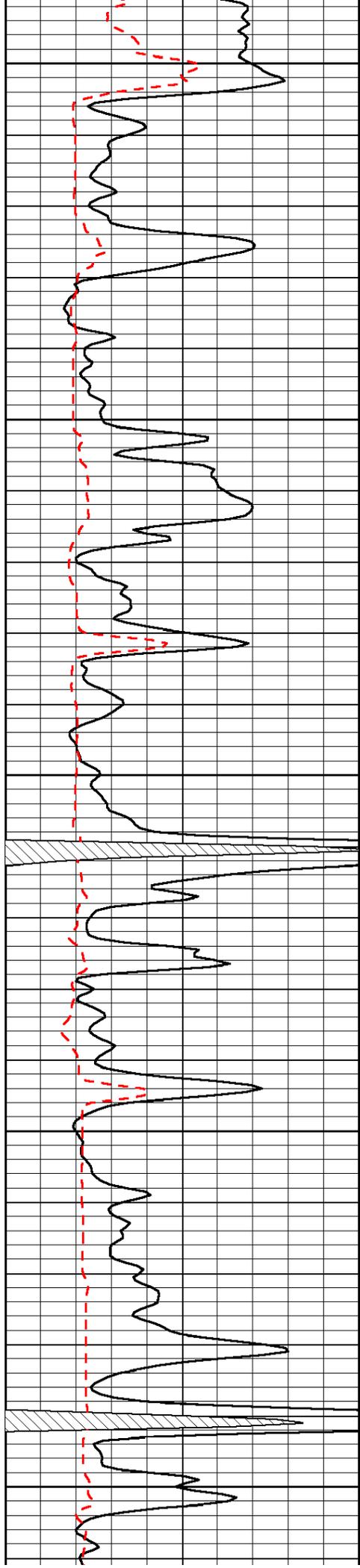


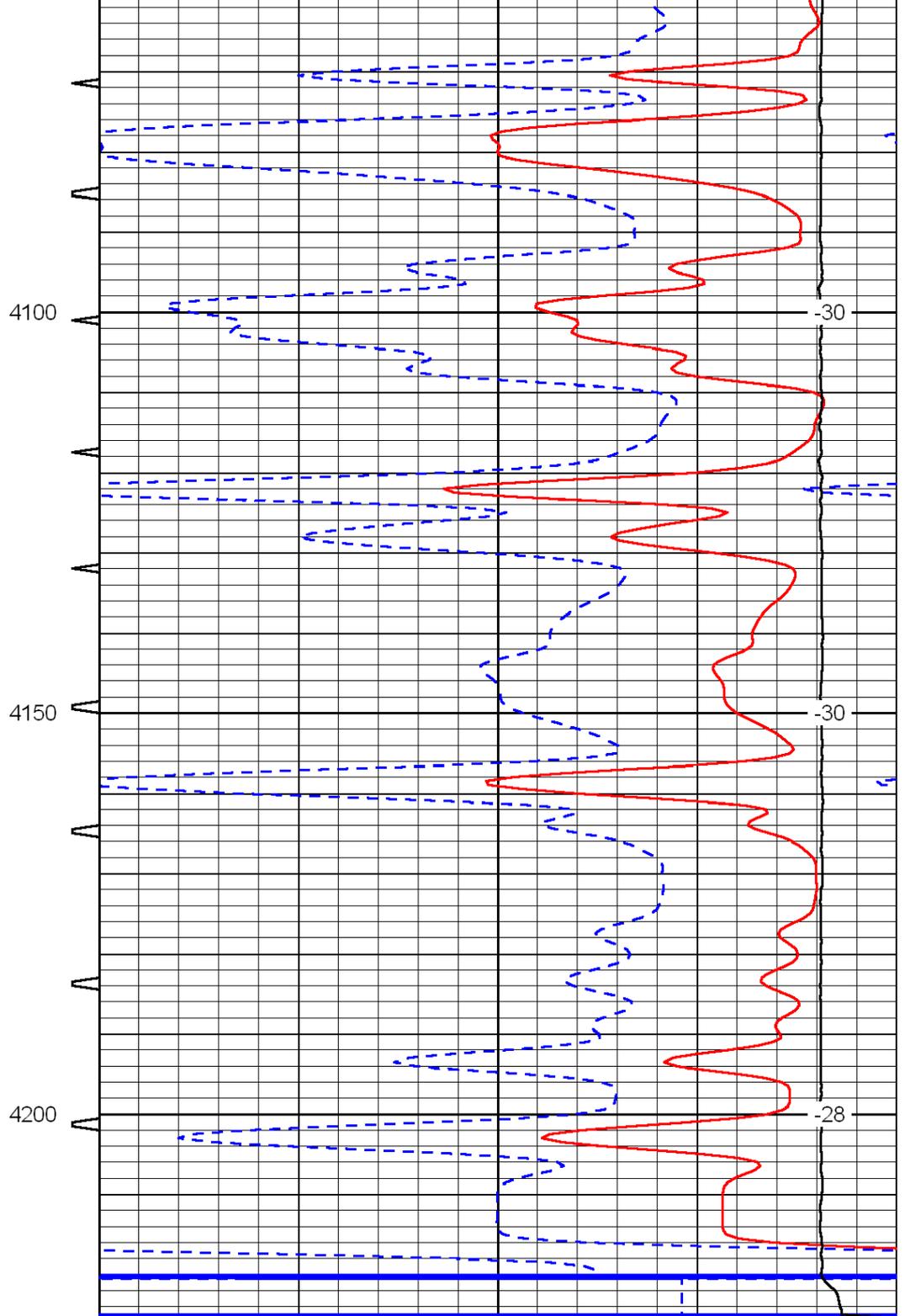
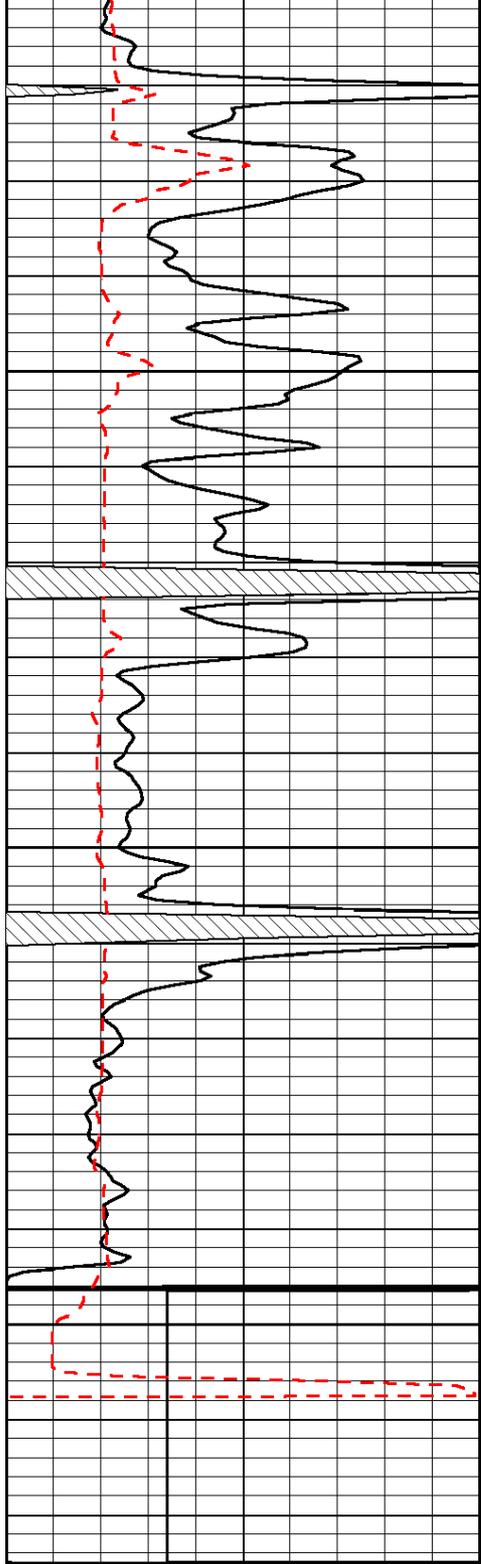












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