



Pioneer Energy Services

Borehole Compensated Sonic Log

API No.	15-083-21,868-00-00		
Company	American Warrior, Inc.		
Well	Cure No. 1 - 33		
Field	Hodgeman		
County	State Kansas		
Location	1550' FNL & 335' FWL		
Sec: 33	Twp: 21 S	Rge: 22 W	Other Services
			RAG

Permanent Datum	Ground Level	Elevation 2299
Log Measured From	Kelly Bushing	11 Ft. Above Perm. Datum
Drilling Measured From	Kelly Bushing	
Date	12/6/2012	Elevation
Run Number	Two	K.B. 2310
Type Log	BHC Sonic	D.F. G.L. 2299

Depth Driller	4474
Depth Logger	4476
Bottom Logged Interval	4465
Top Logged Interval	250
Type Fluid In Hole	Chemical
Salinity, PPM CL	8000
Density	9.2
Level	Full
Max. Rec. Temp. F	121
Operating Rig Time	3 1/2 Hours
Equipment -- Location	17 Hays
Recorded By	D. Martin
Witnessed By	Kevin Timson

Borehole Record				Casing Record			
Run No.	Bit	From	To	Size	Wgt.	From	To
One	12.25	00	260	8.625	23#	00	260
Two	7.875	260	TD				

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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.

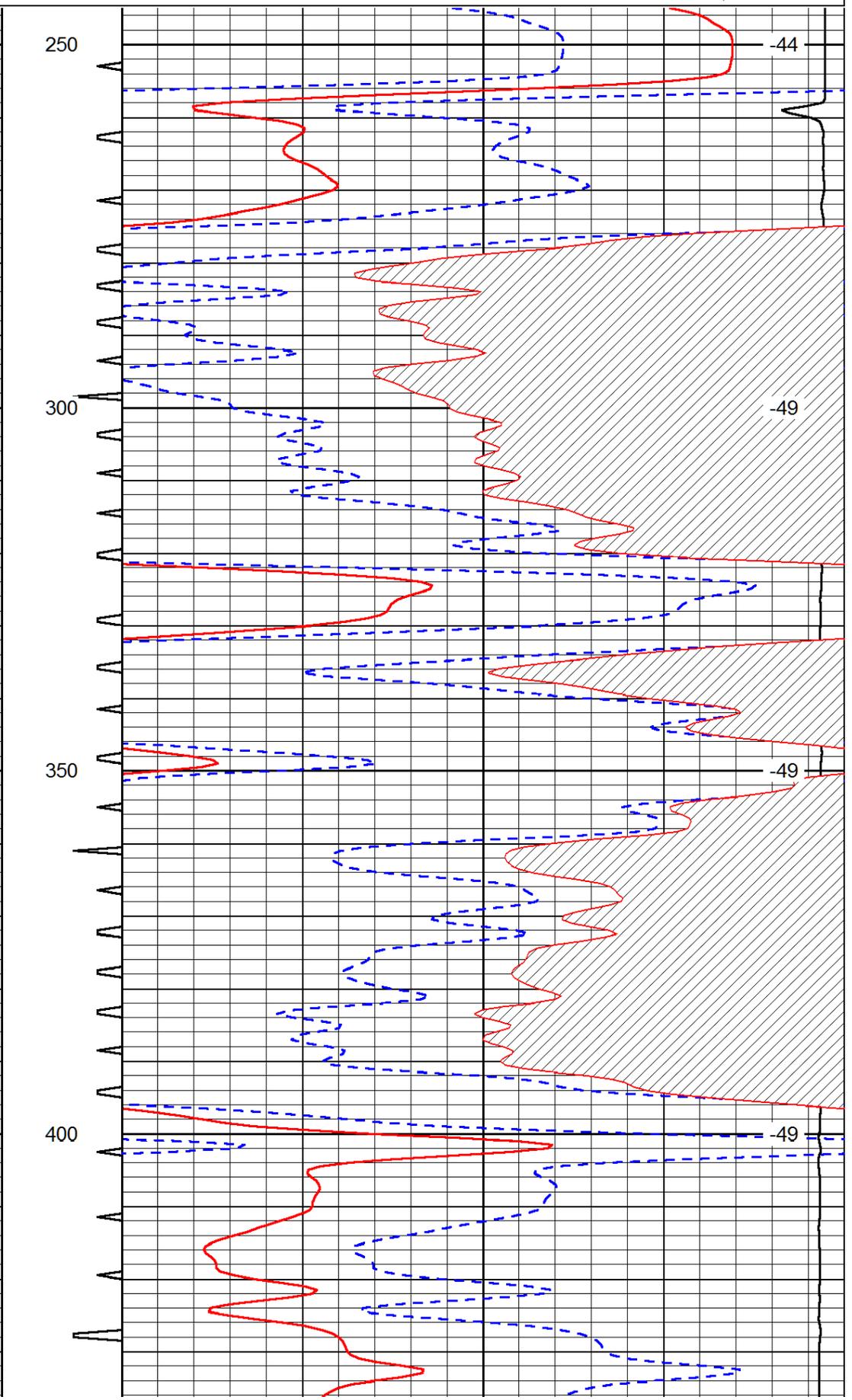
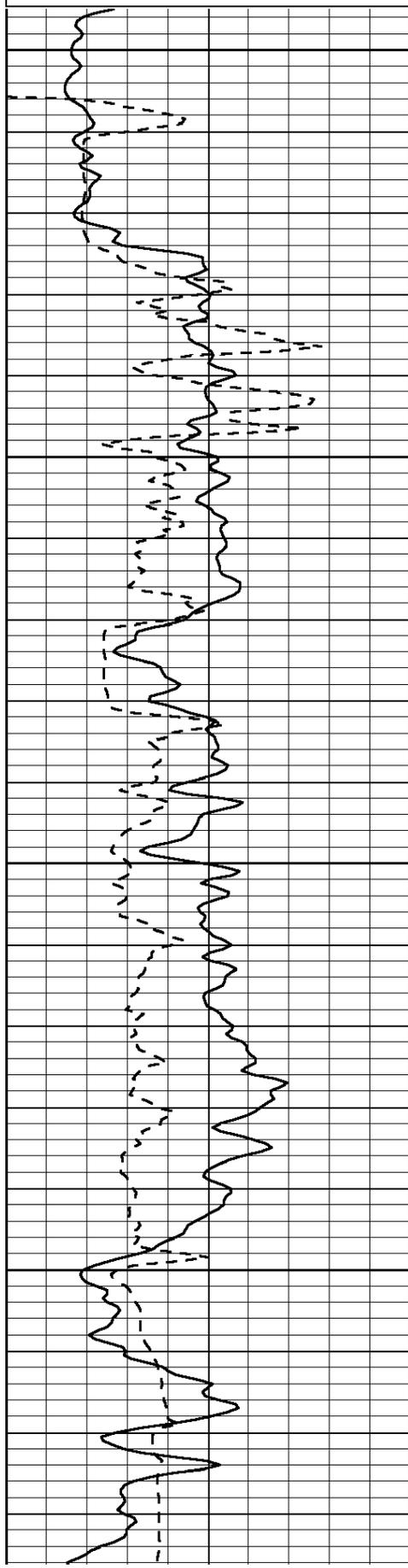
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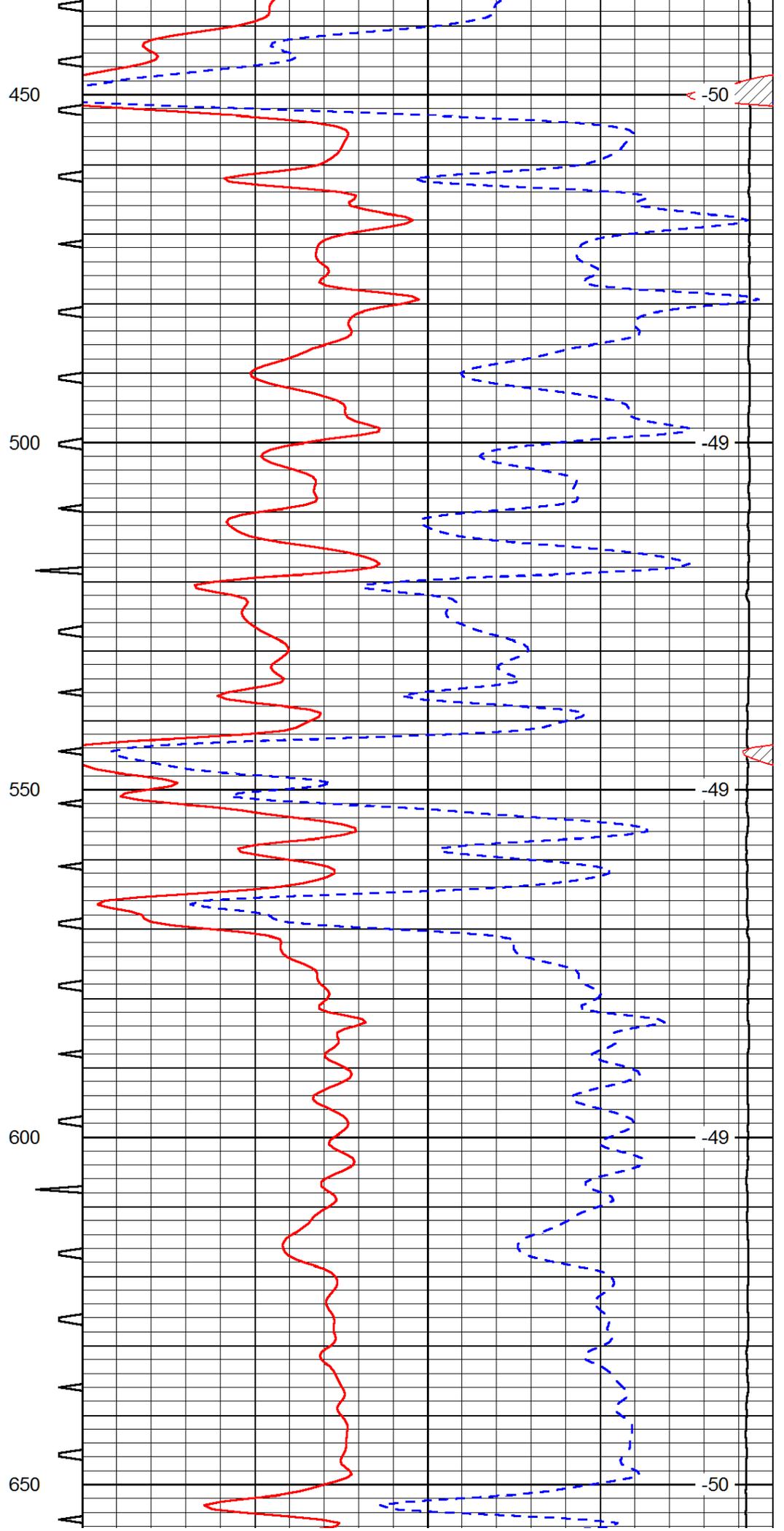
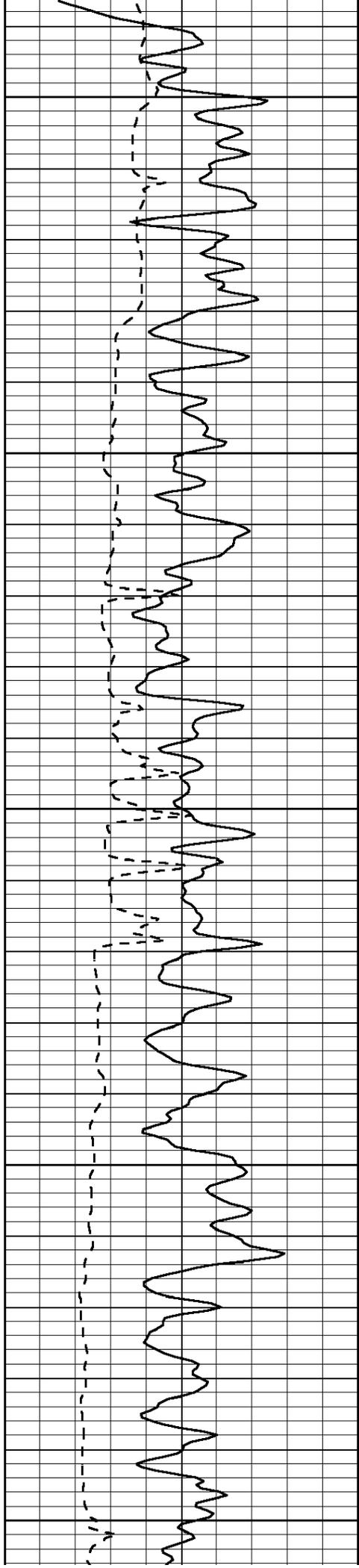
Thank you for using Log-Tech, Inc.
(785) 625-3858

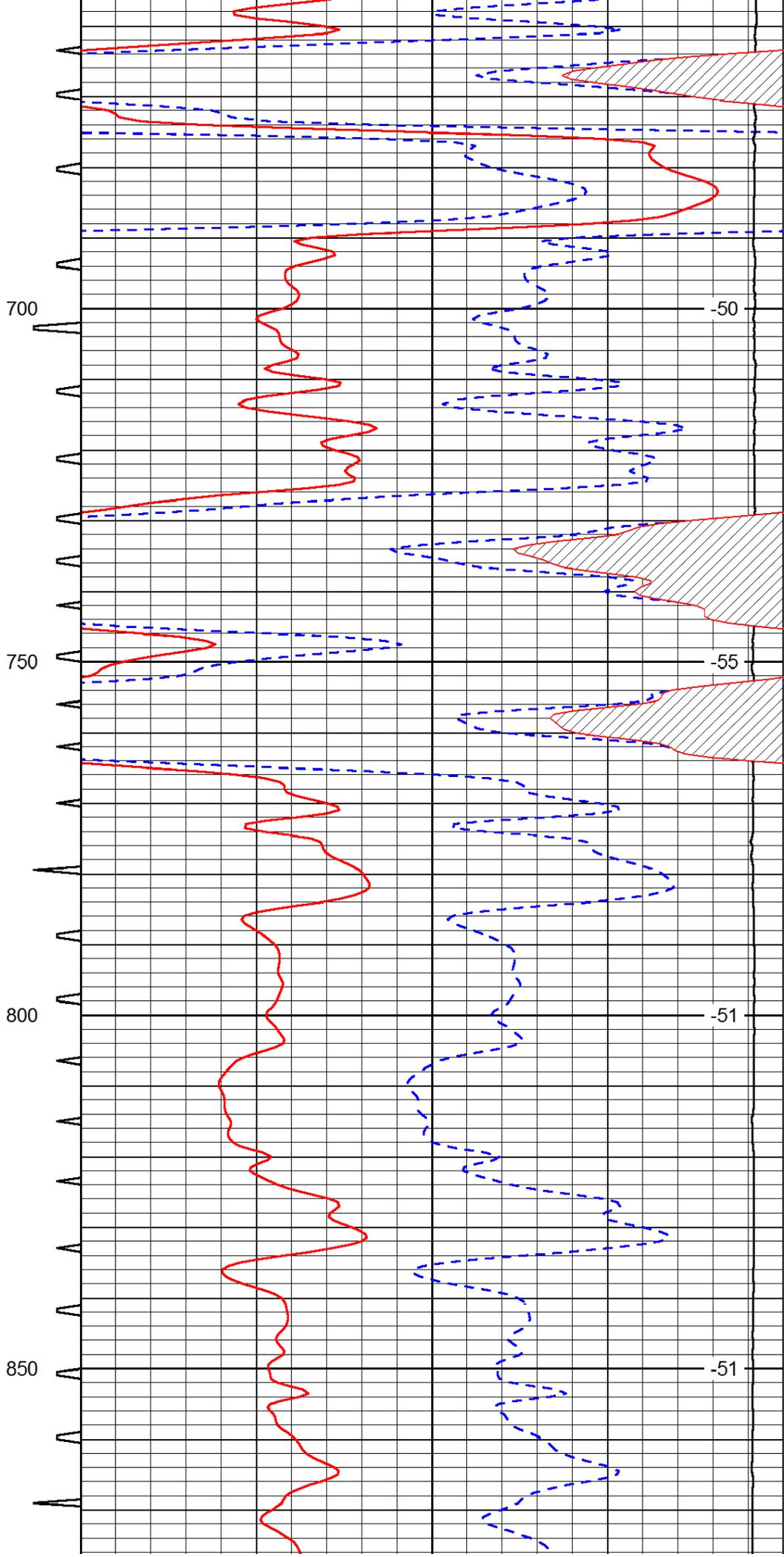
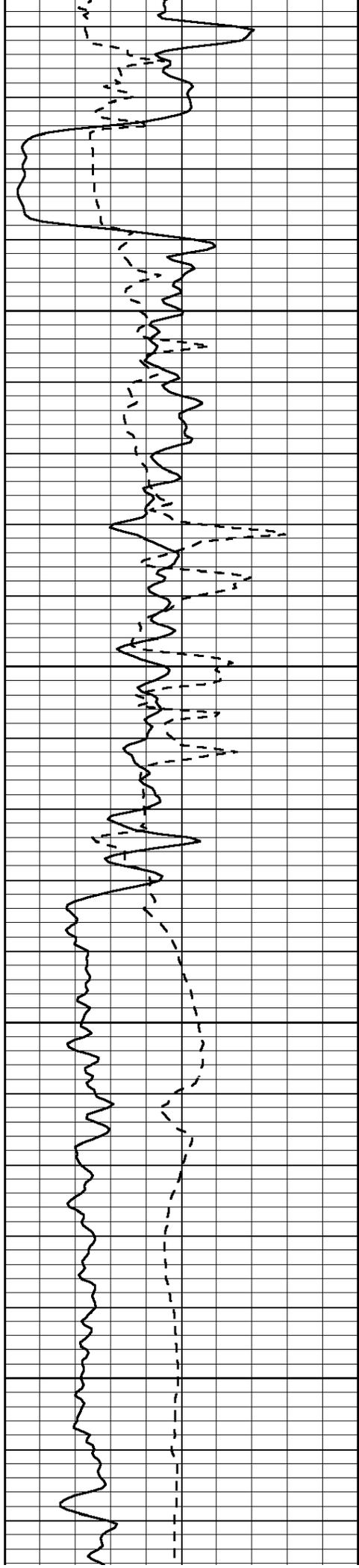
Hanston, KS
3 S to M Rd., 4 E to 232 Rd.,
3/4 N, E Into

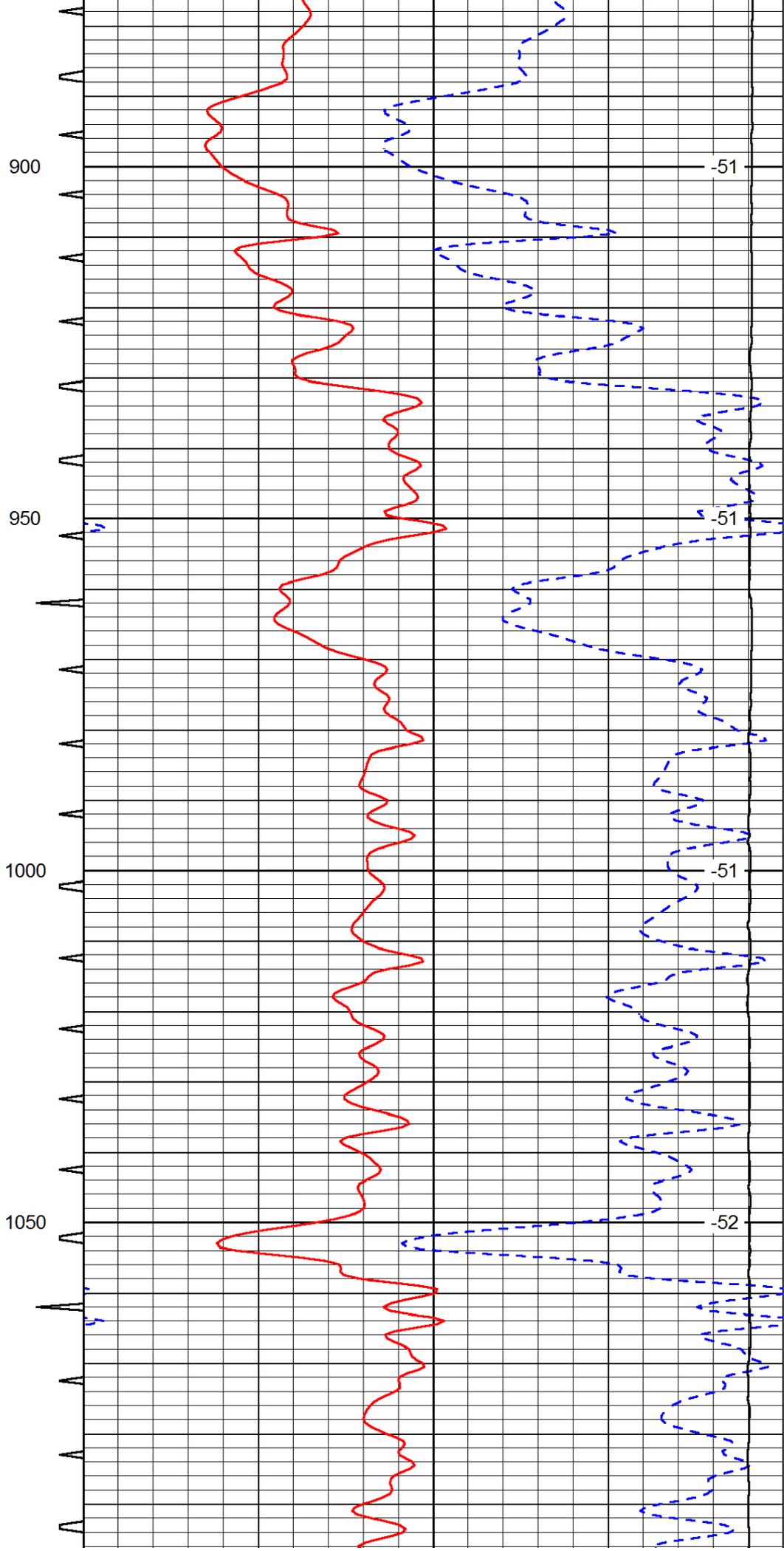
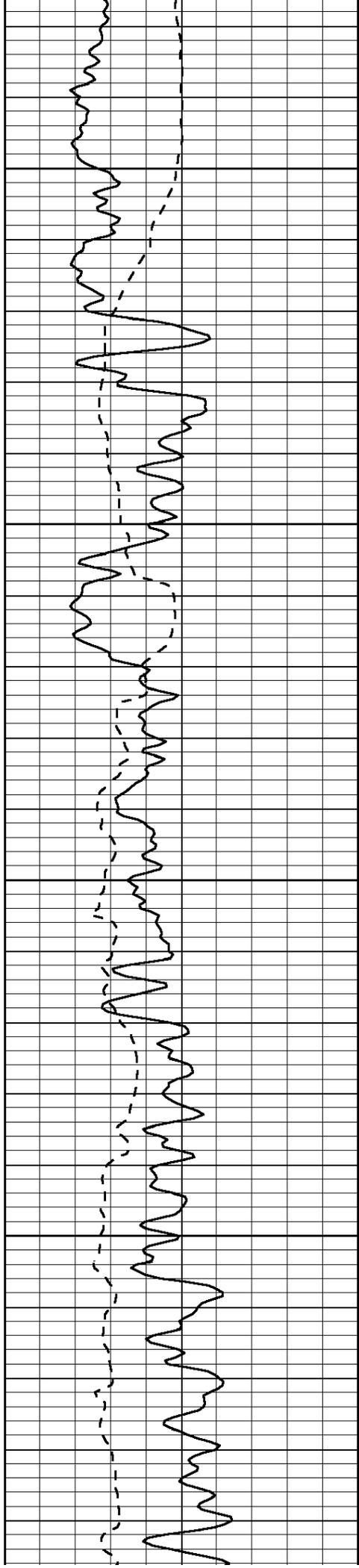
Database File: amwhd.db
 Dataset Pathname: rag/amwrag
 Presentation Format: sonic
 Dataset Creation: Thu Dec 06 23:11:19 2012
 Charted by: Depth in Feet scaled 1:240

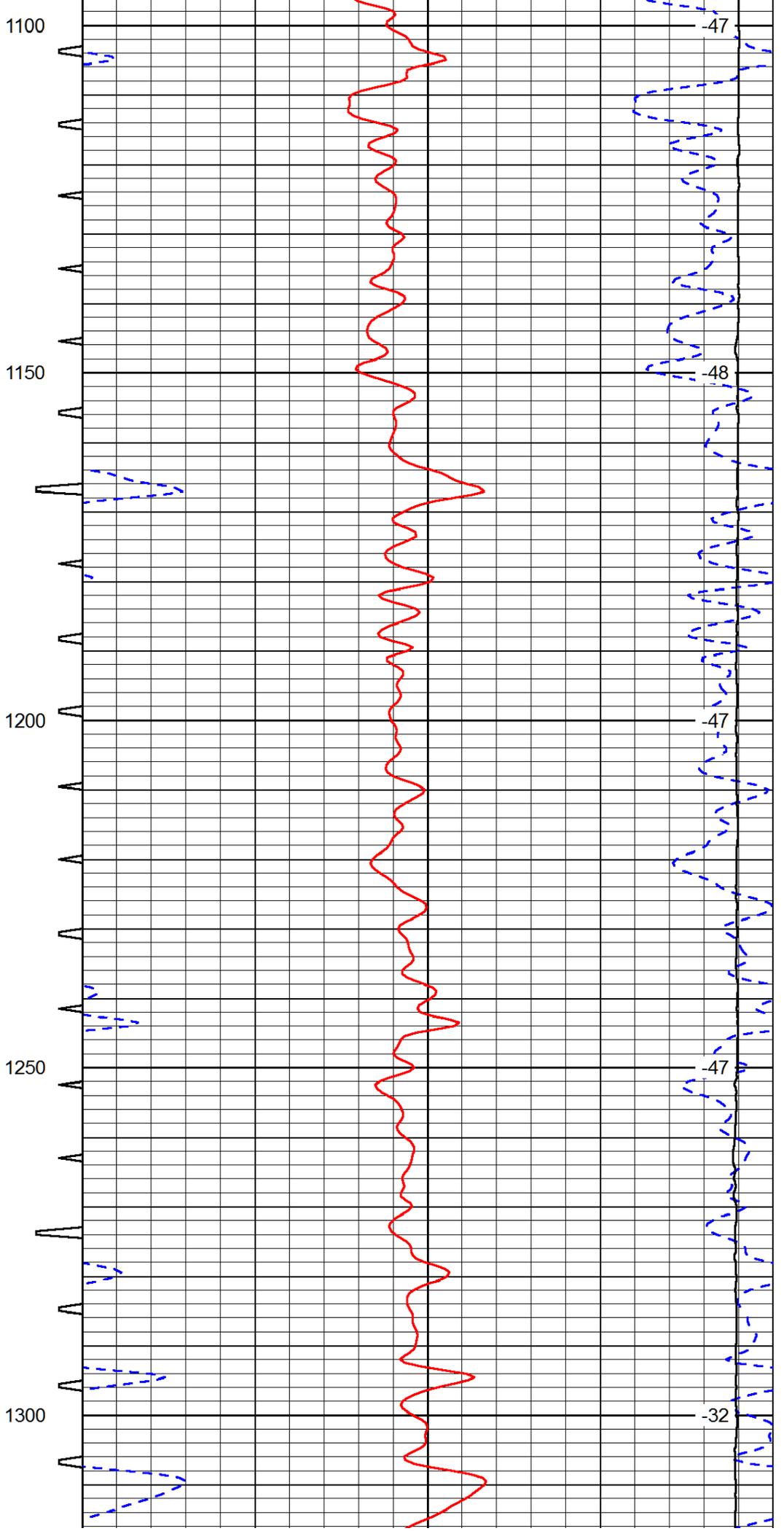
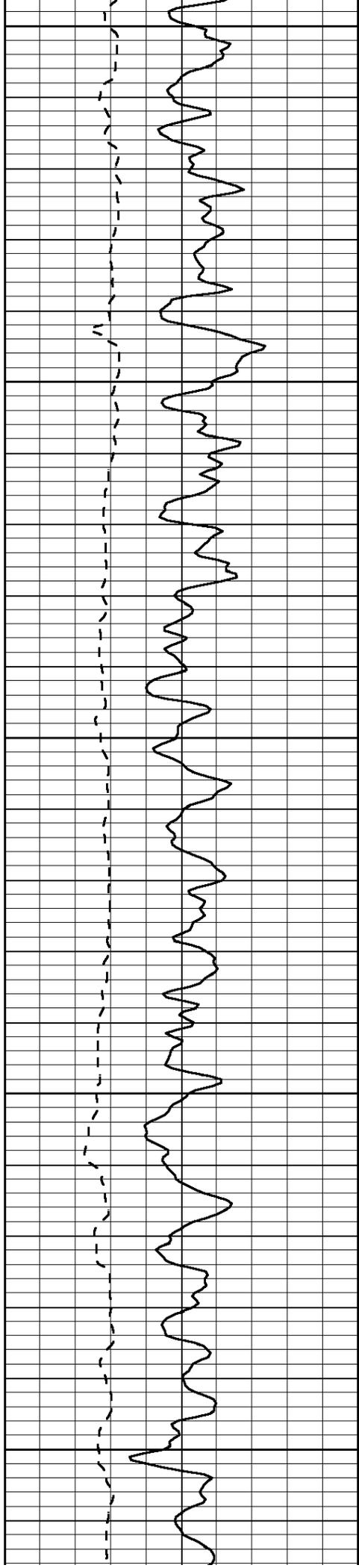
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150	Gamma Ray (GAPI)	300	5 (msec) 0	30	Sonic Porosity (pu)	-10
6	scal (in)	16		15000	LTEN (lb) (lb)	0
						LSPD (ft/min)

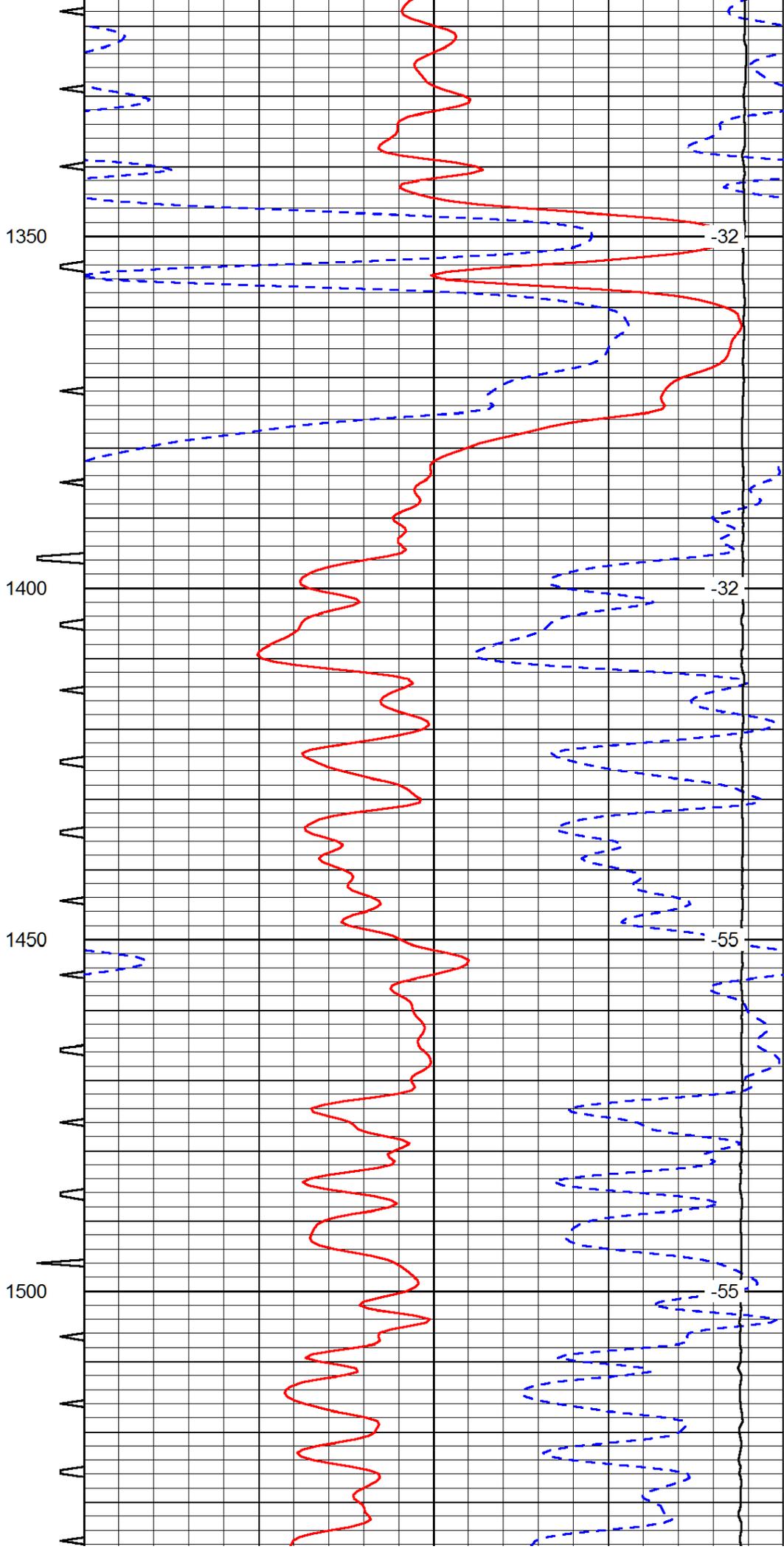
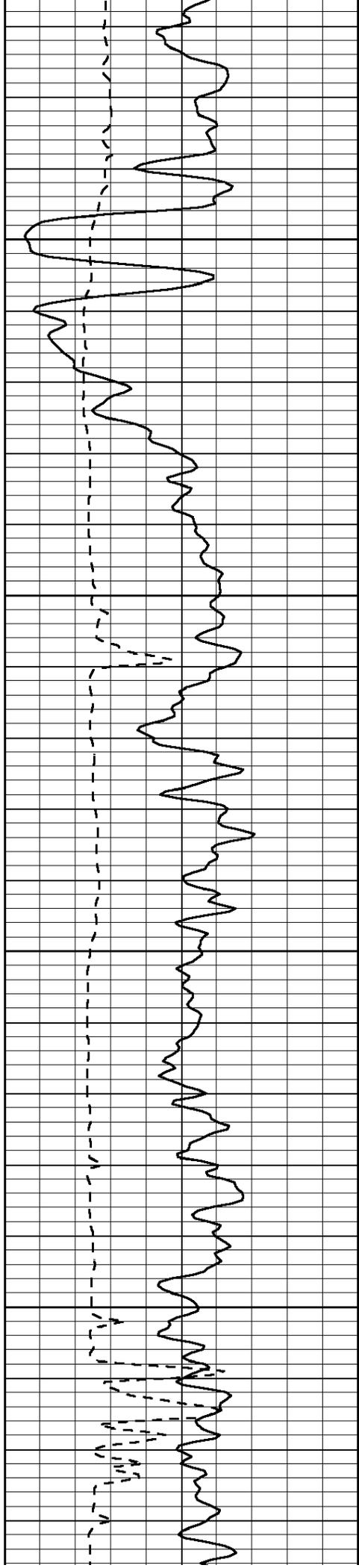


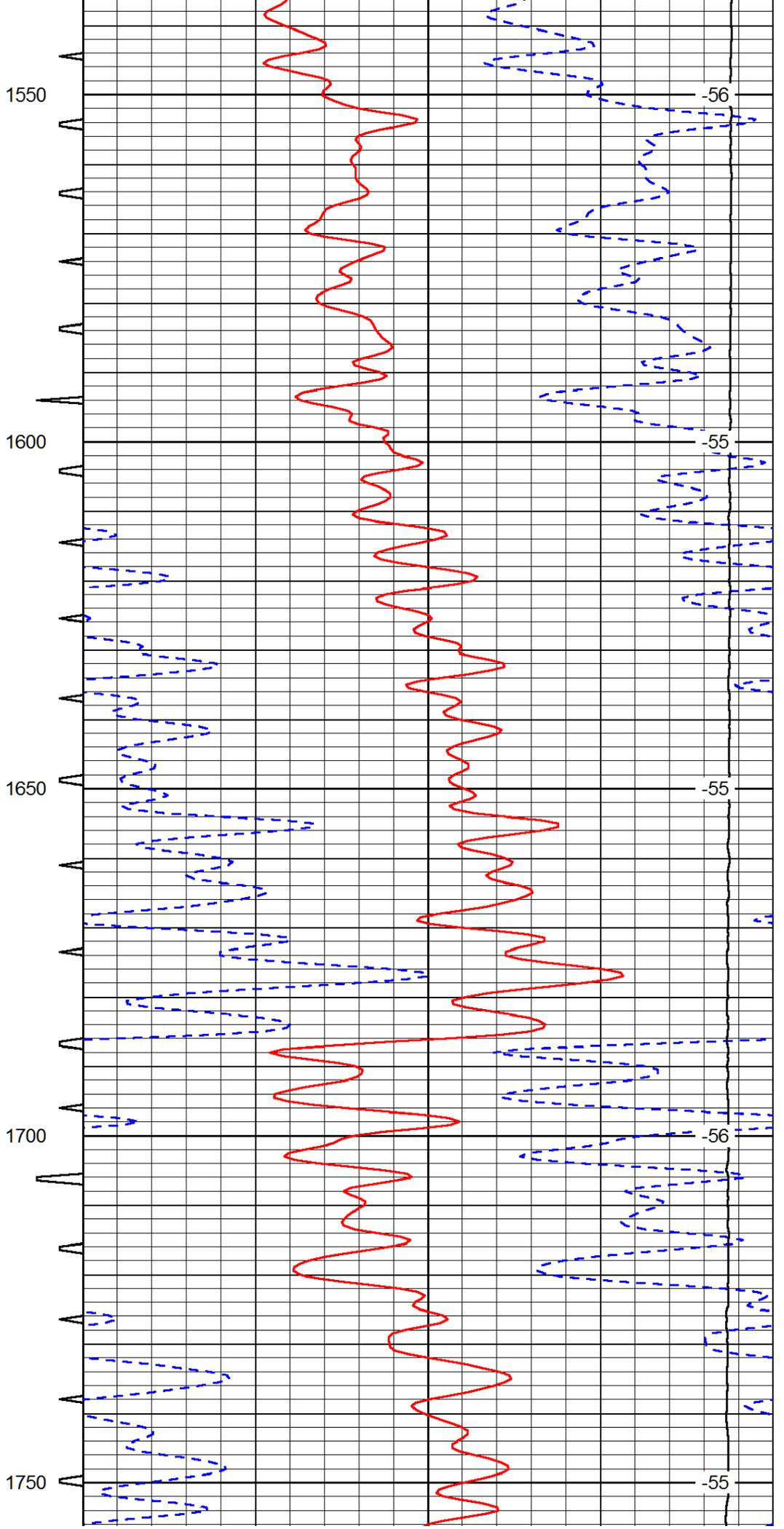
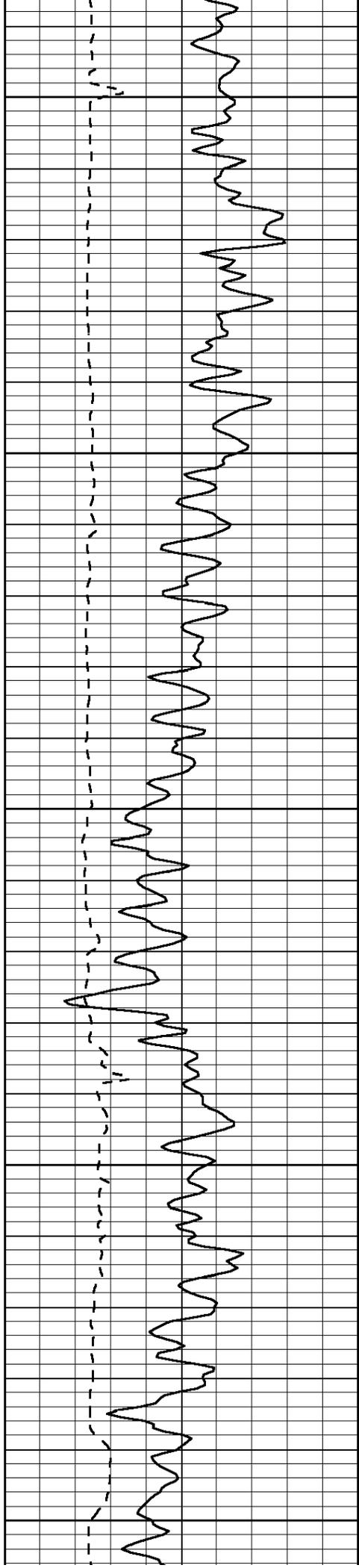


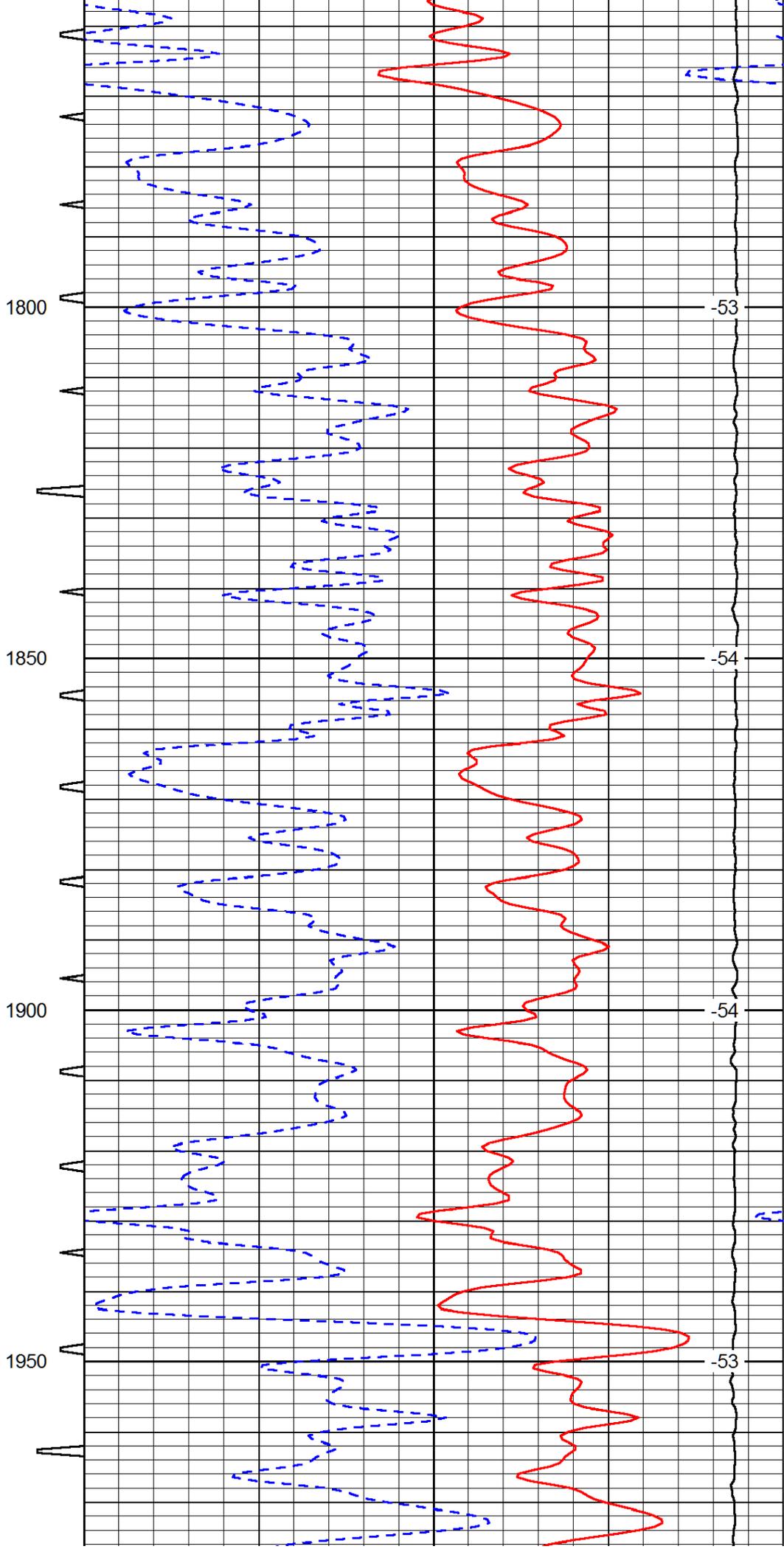
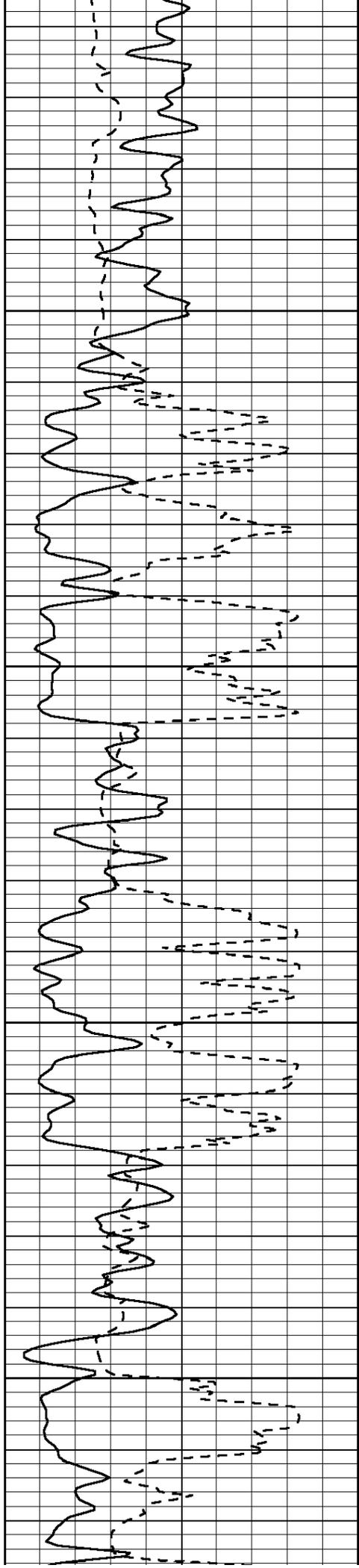


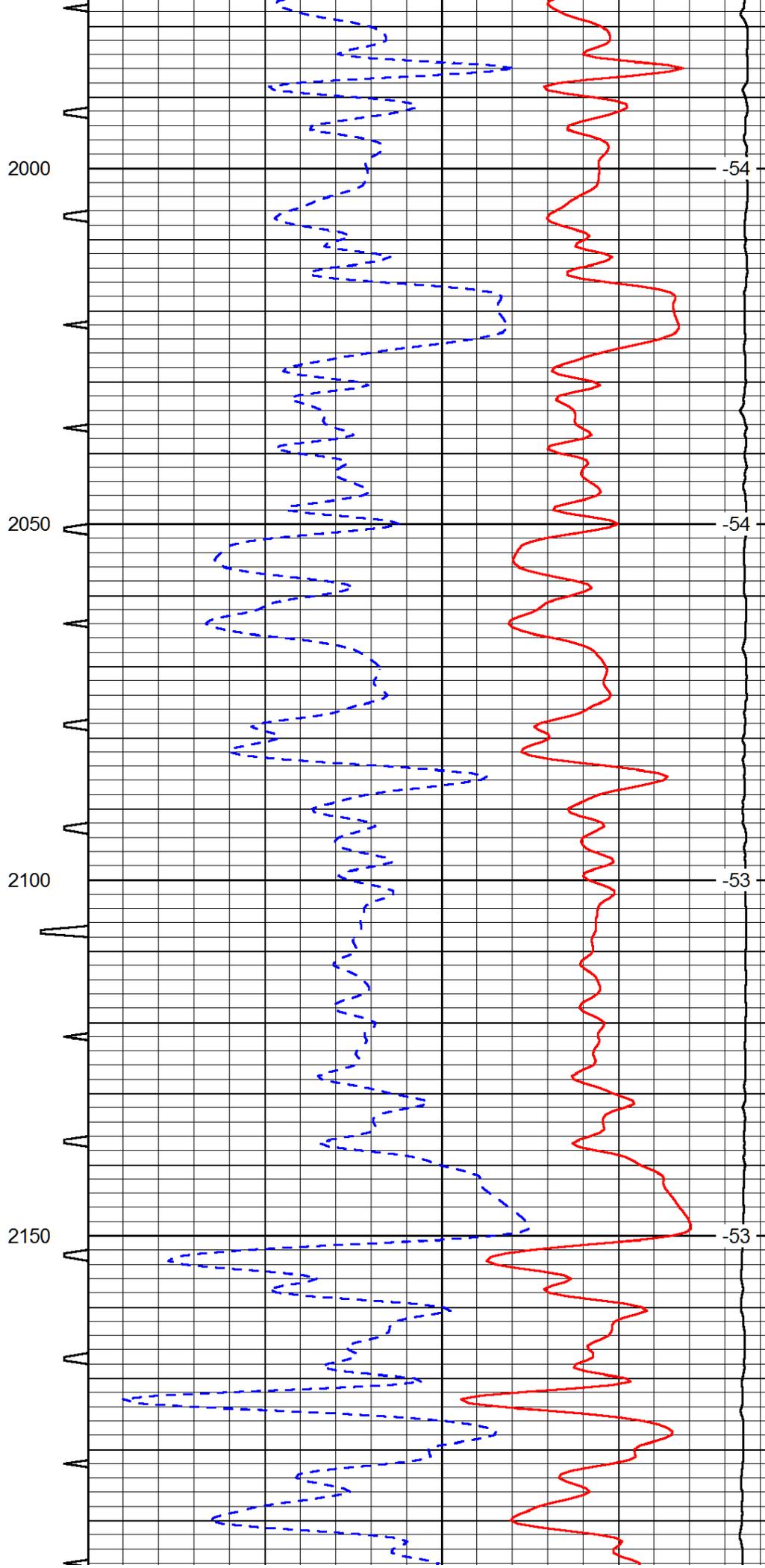
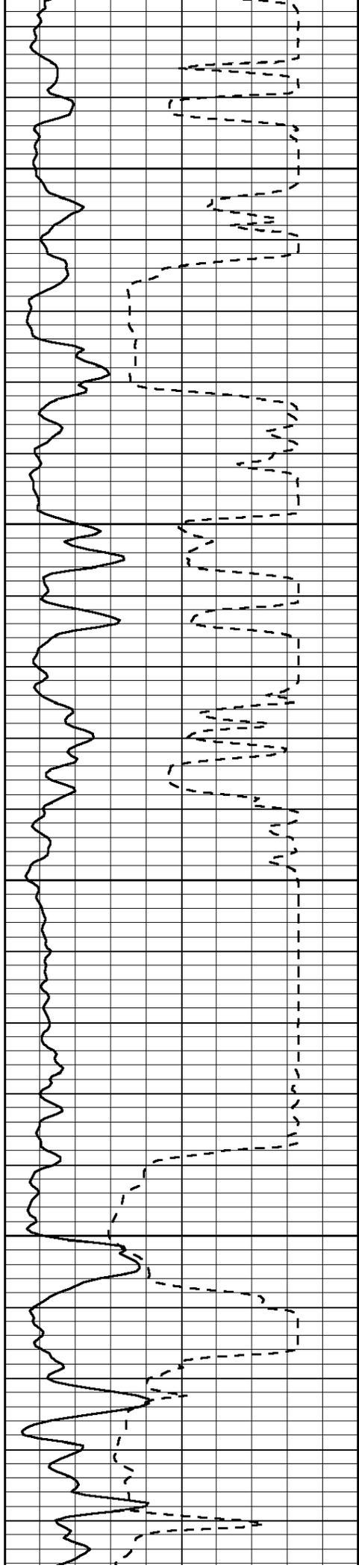


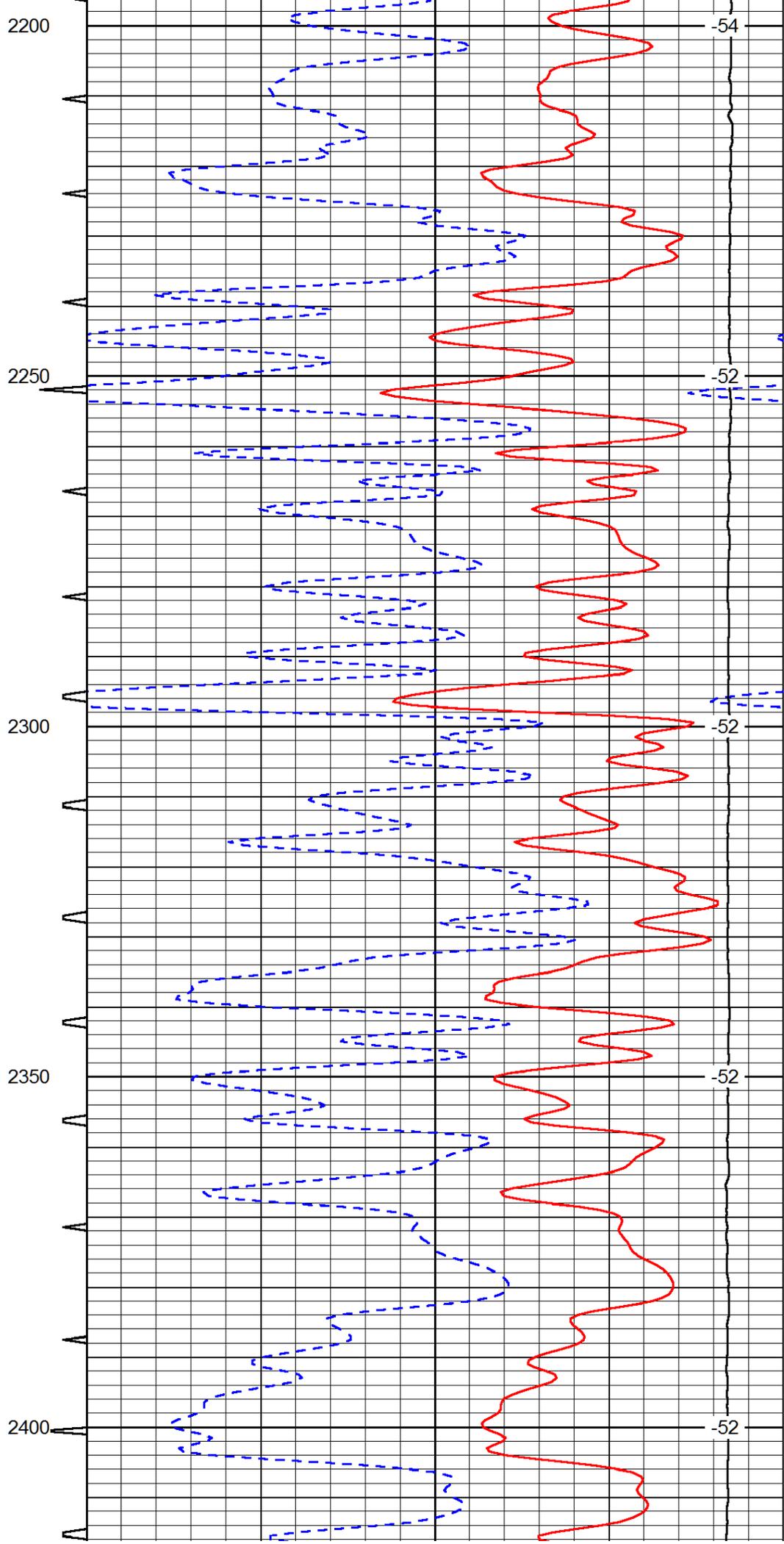
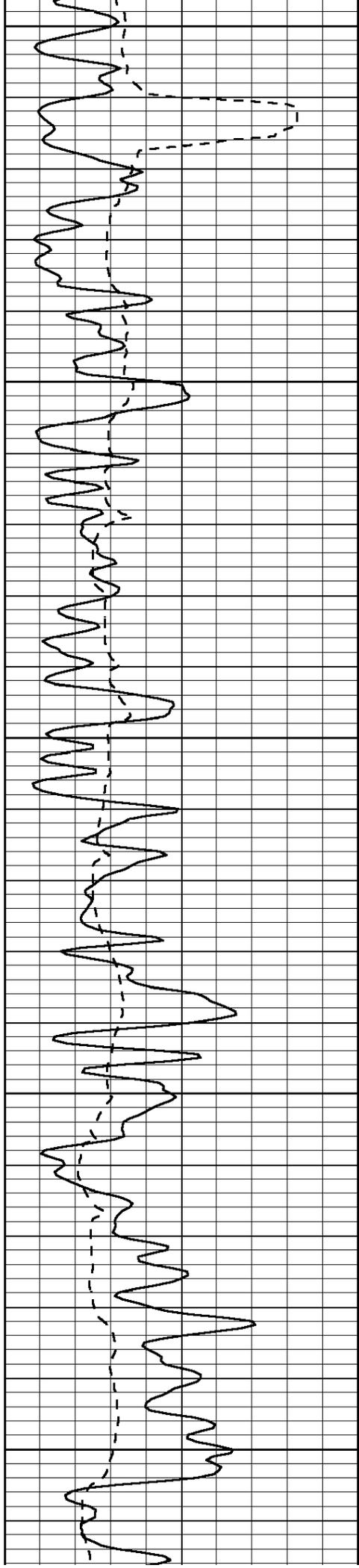


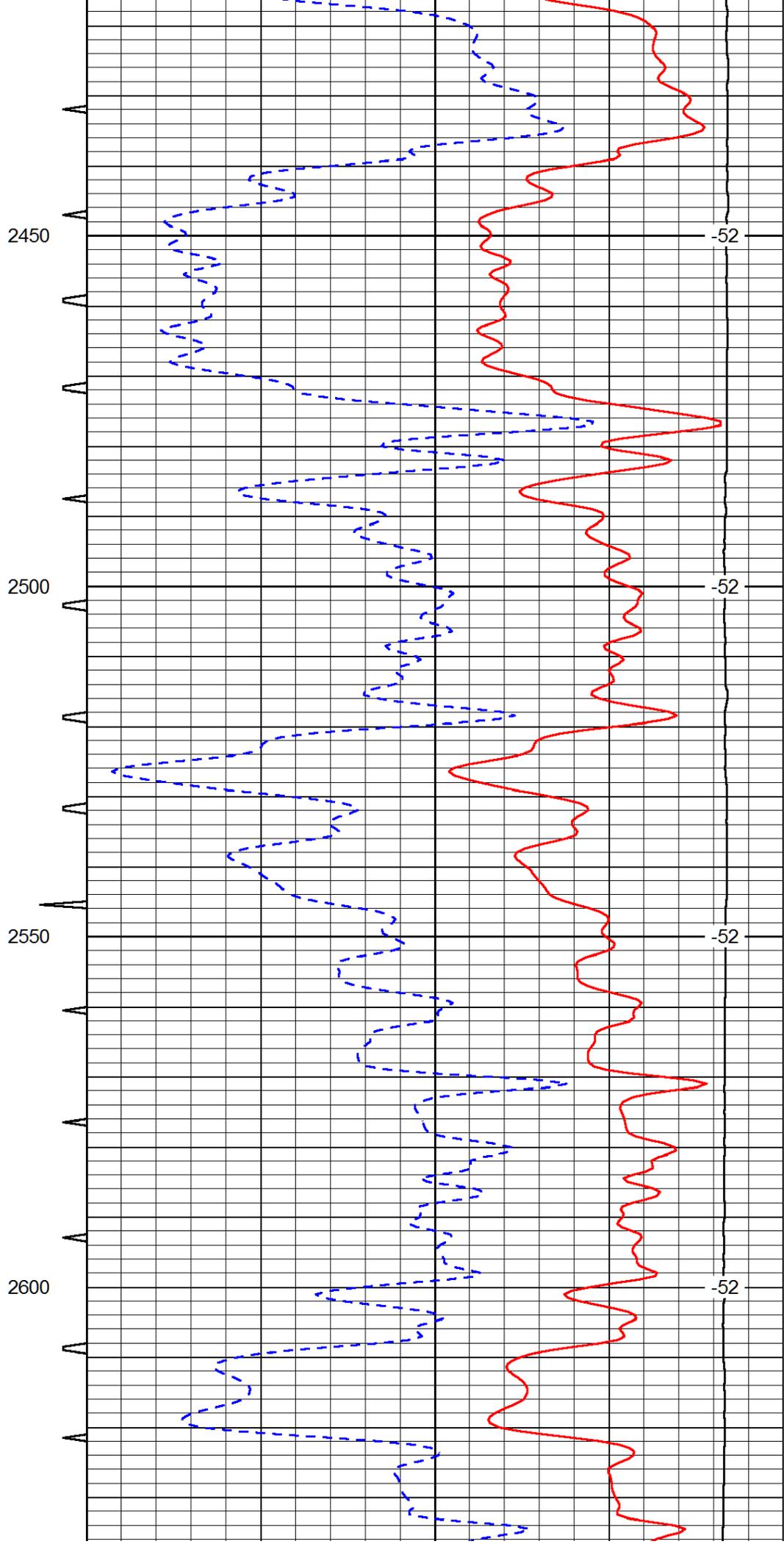
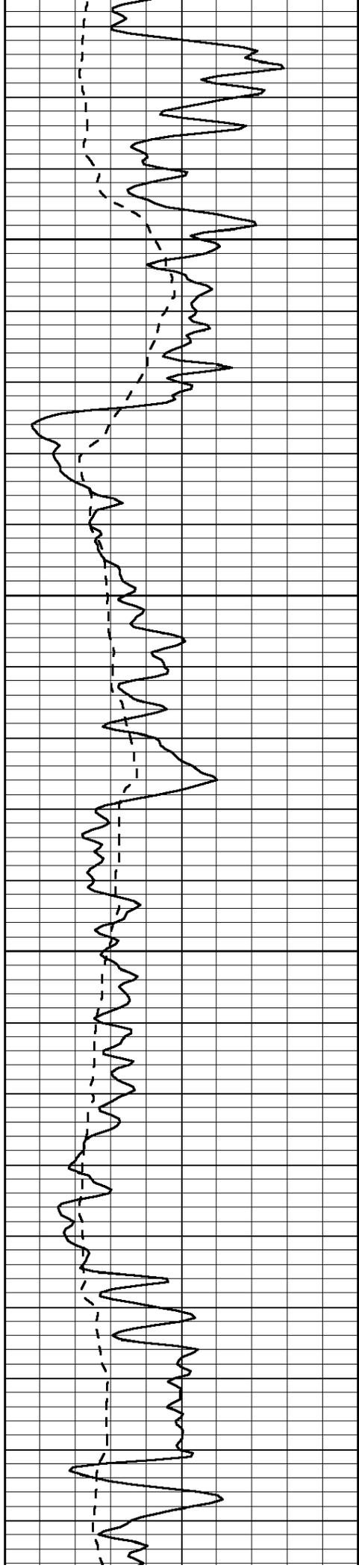


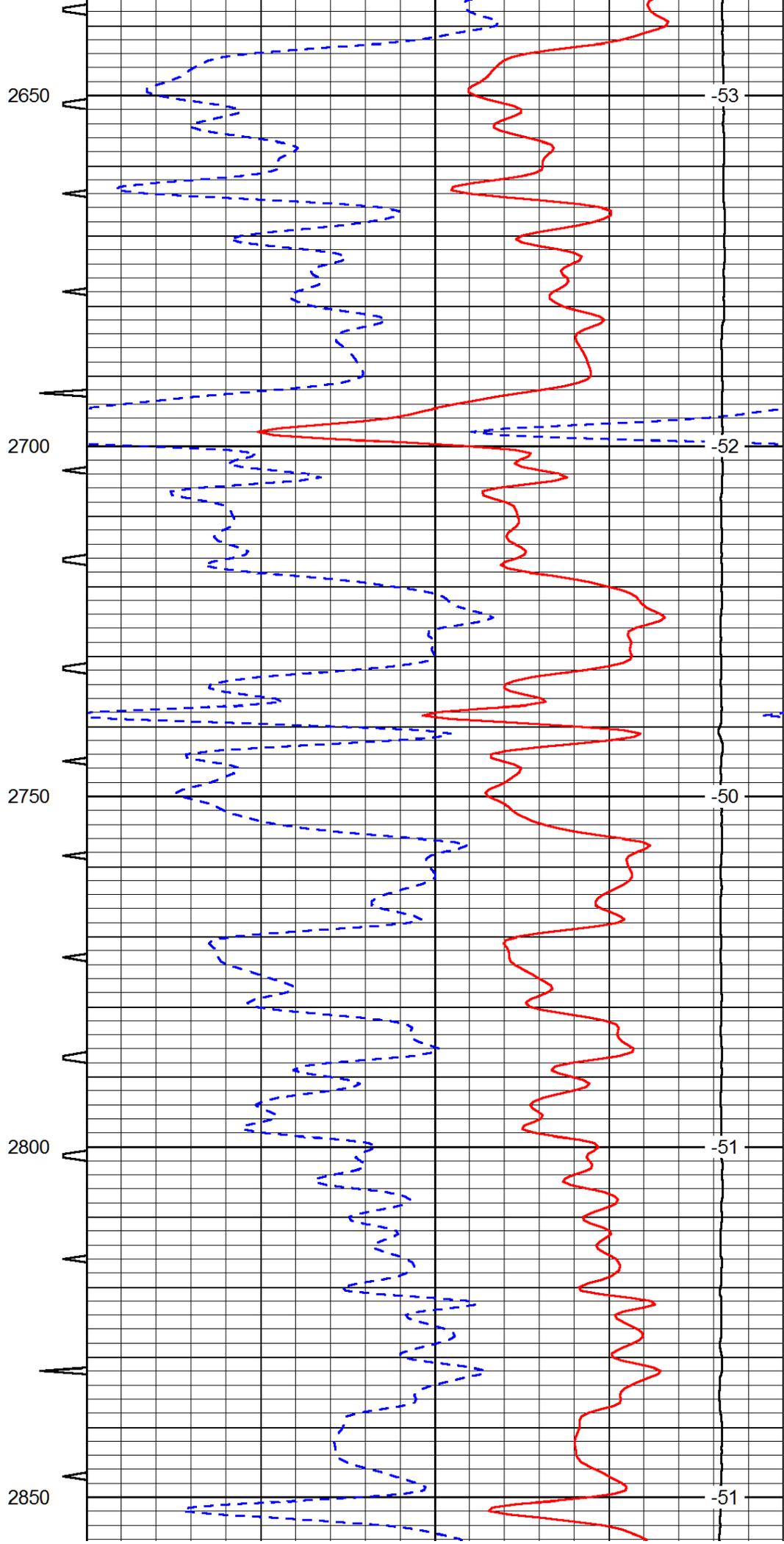
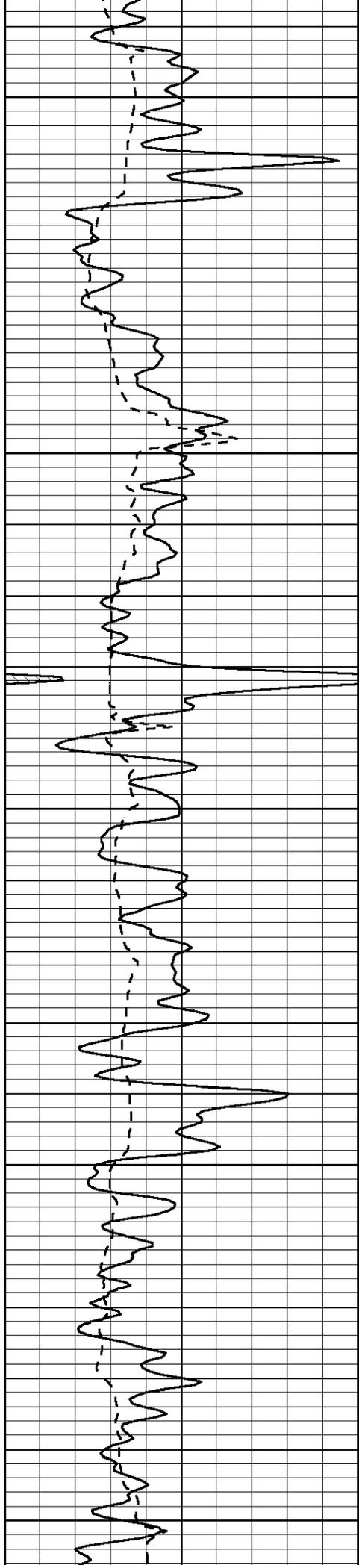


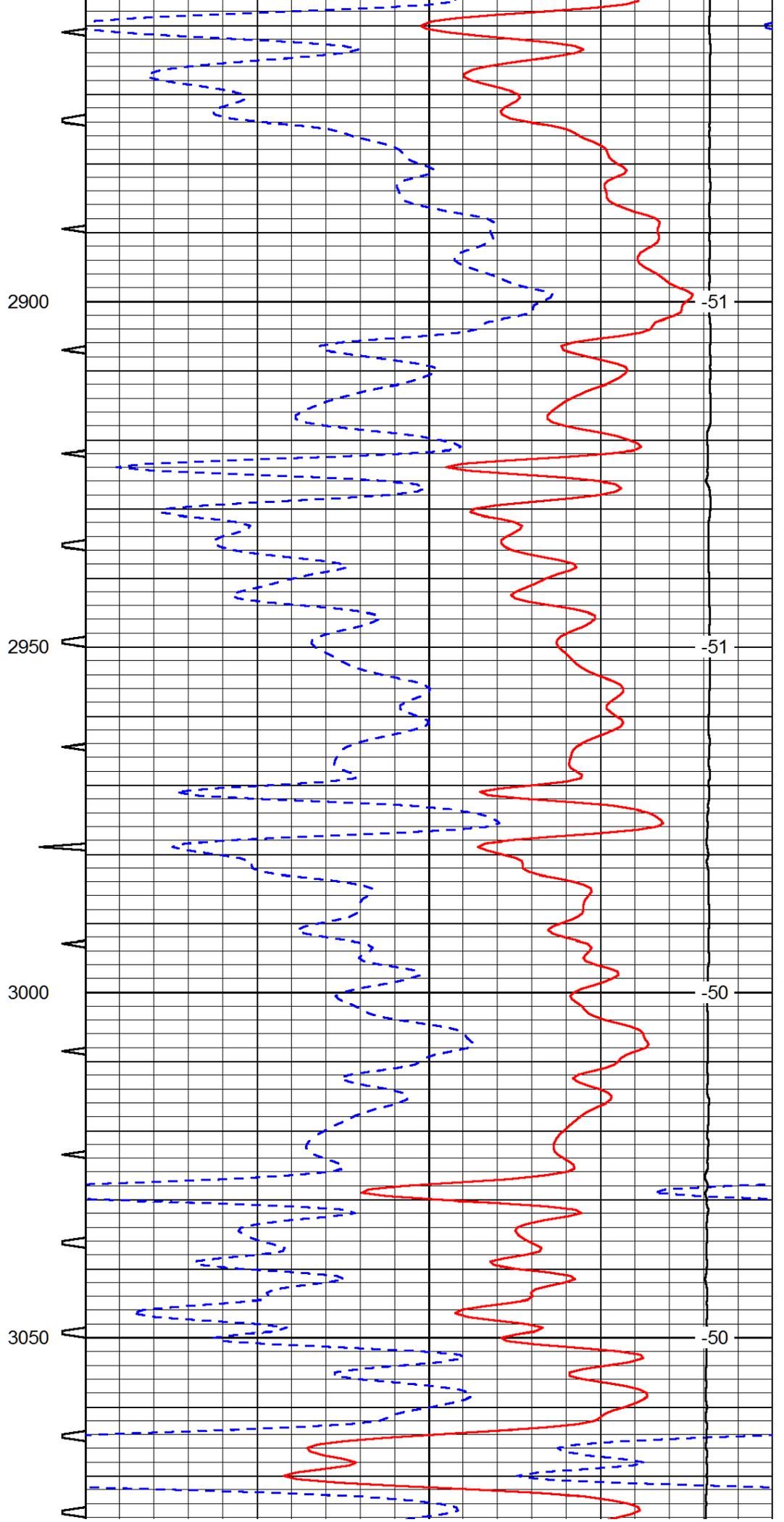
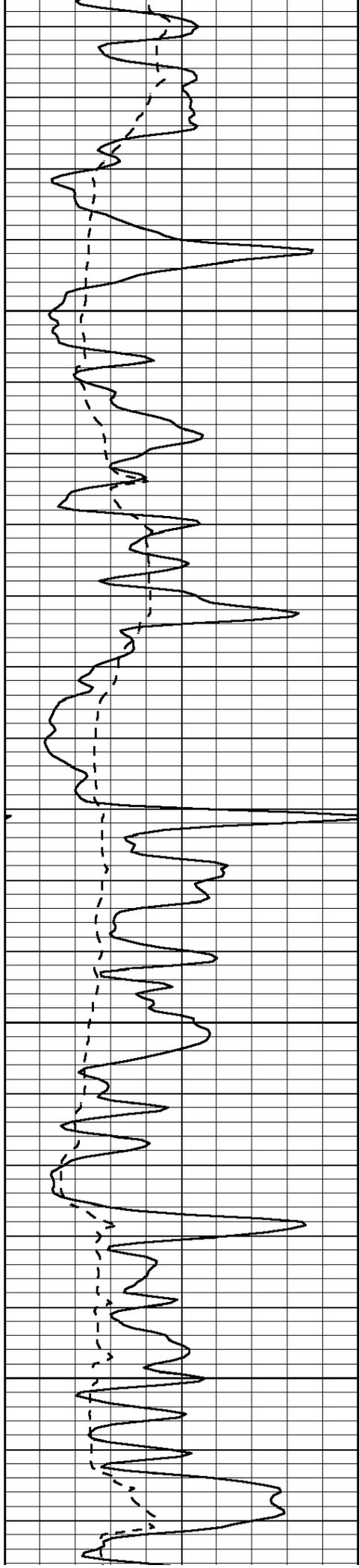


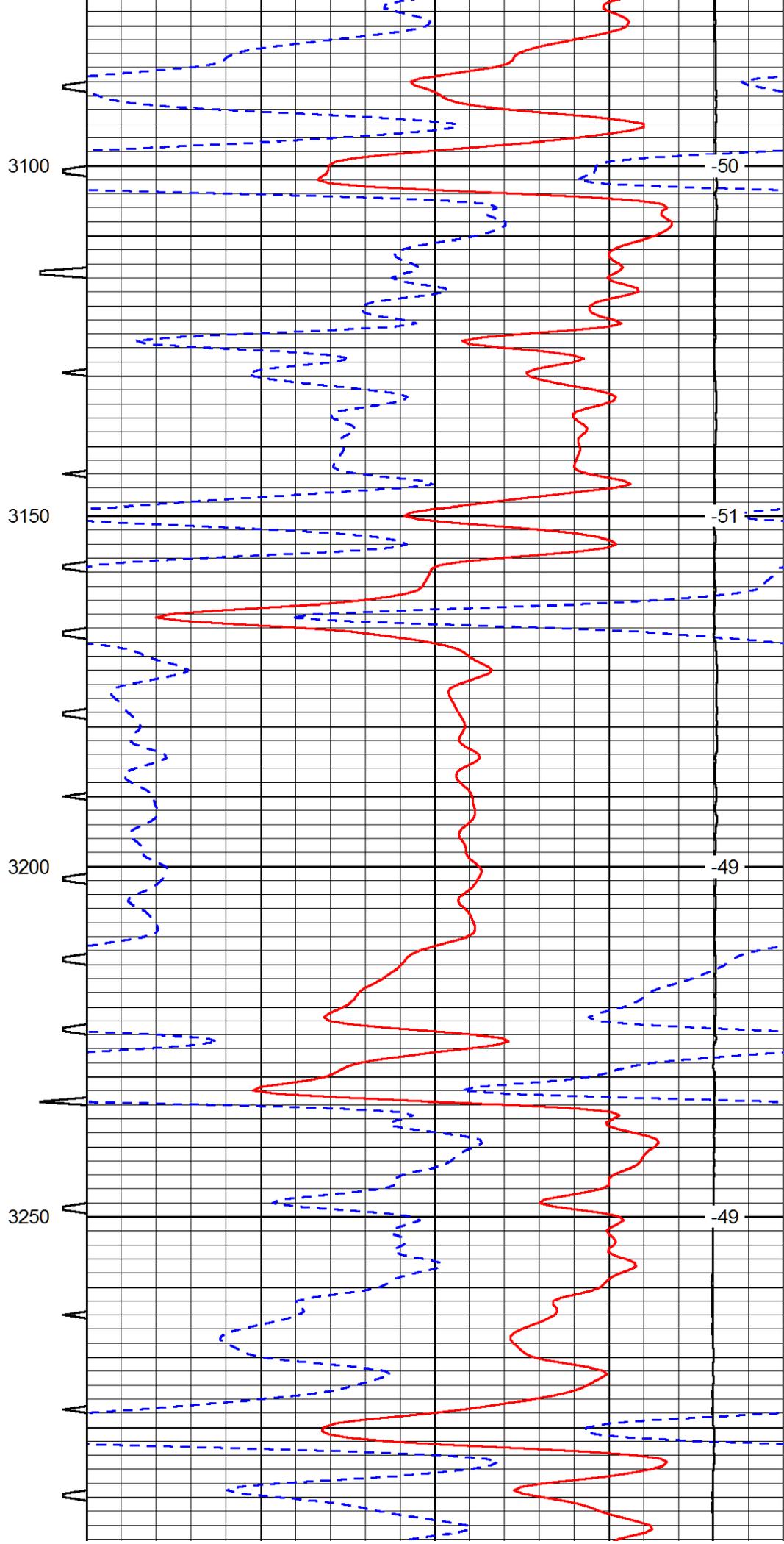
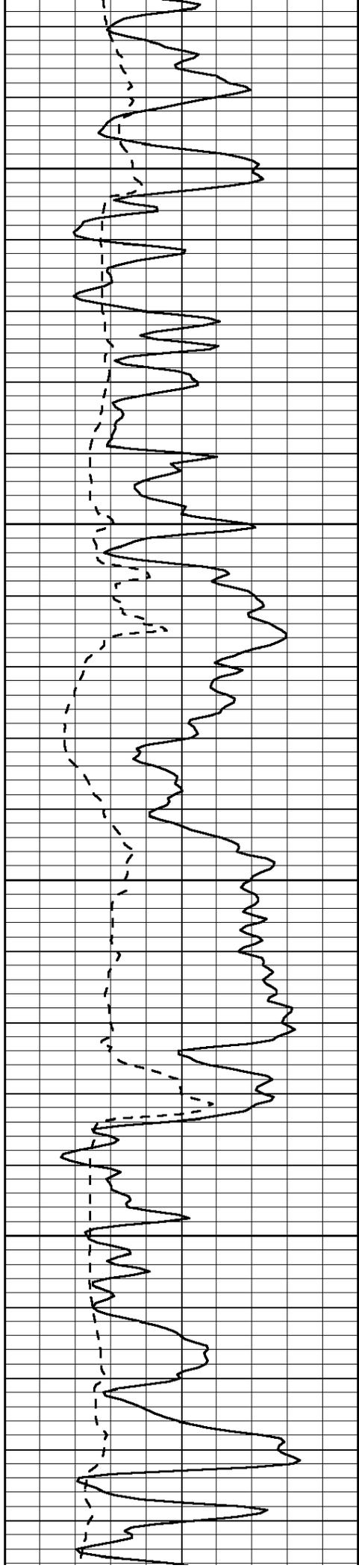


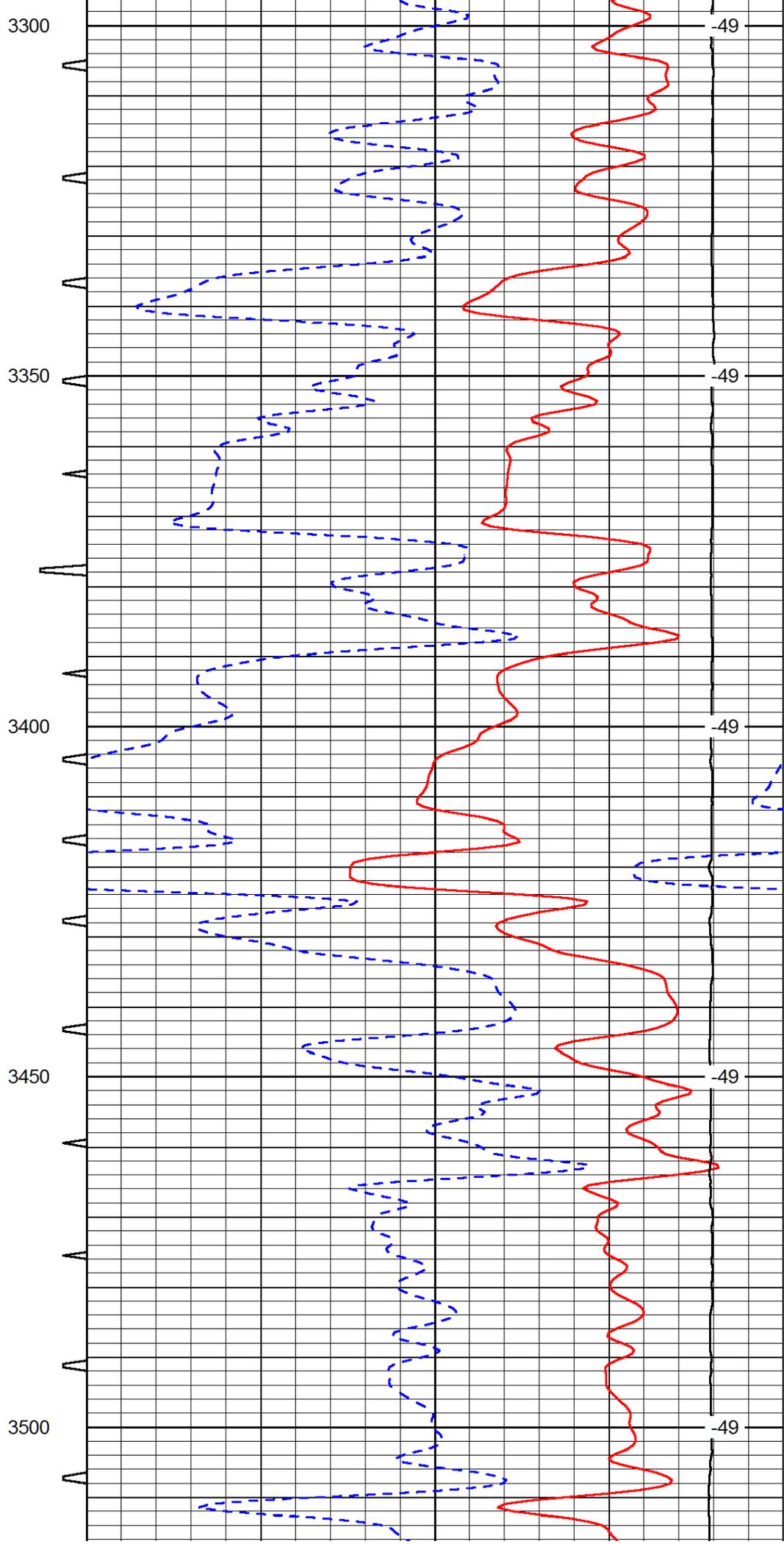
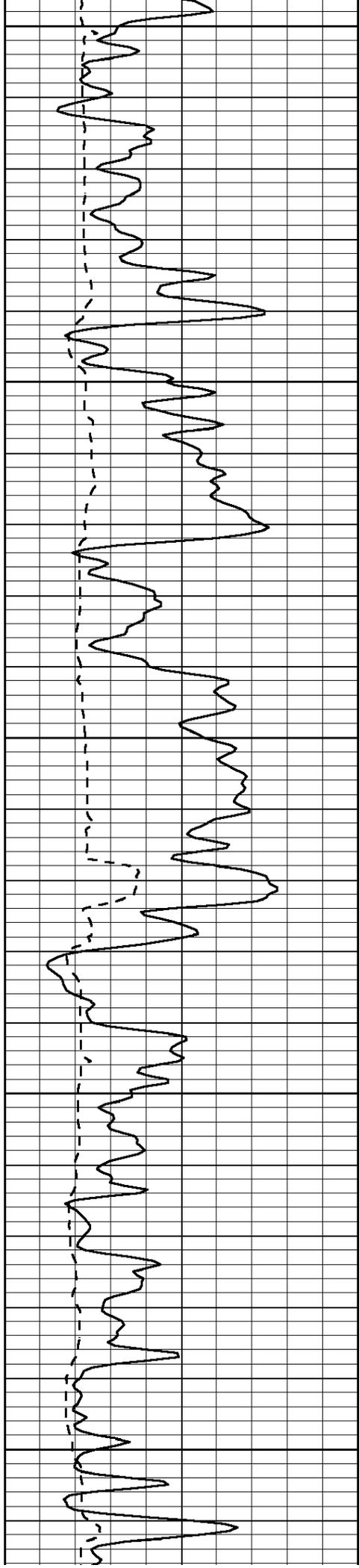


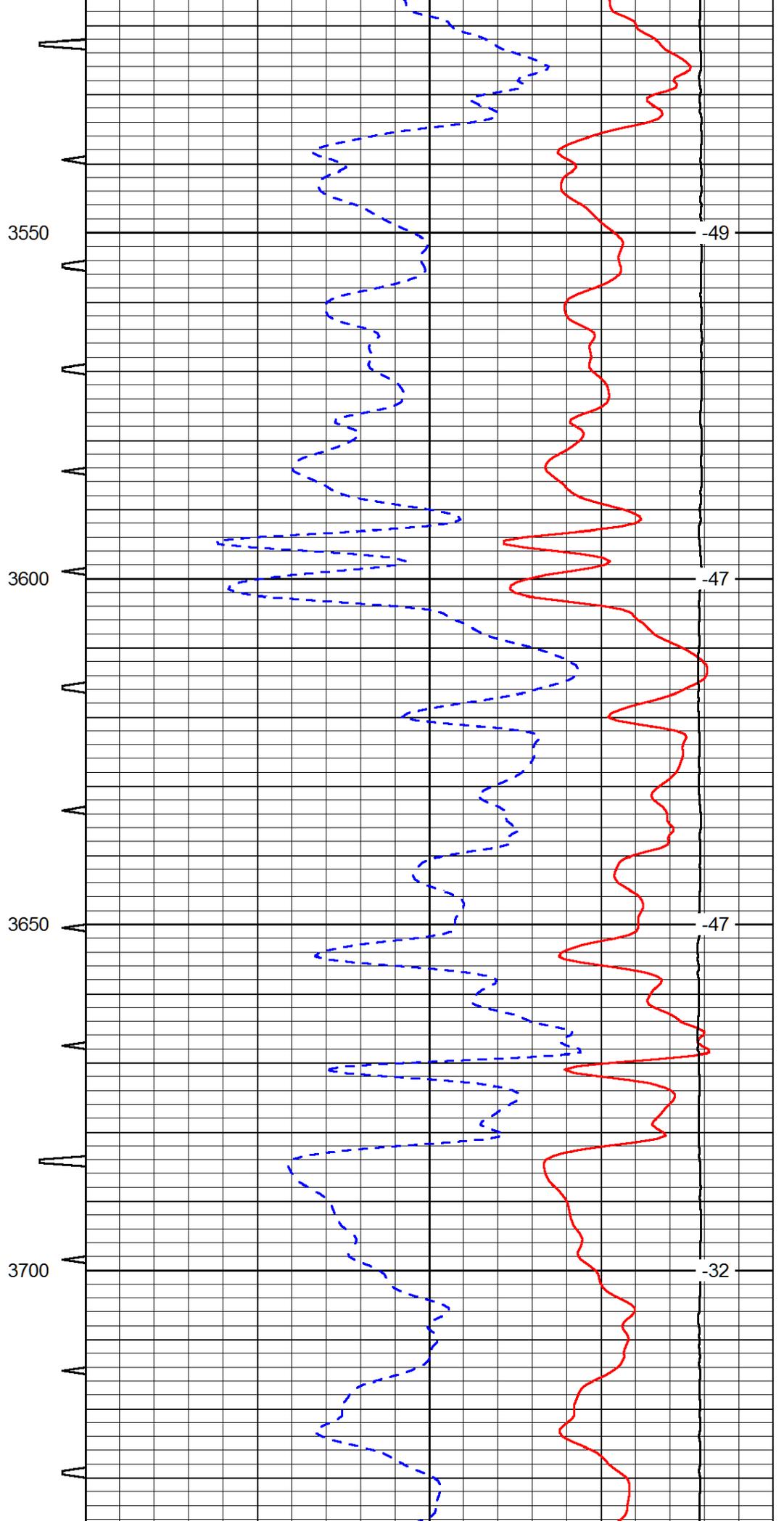
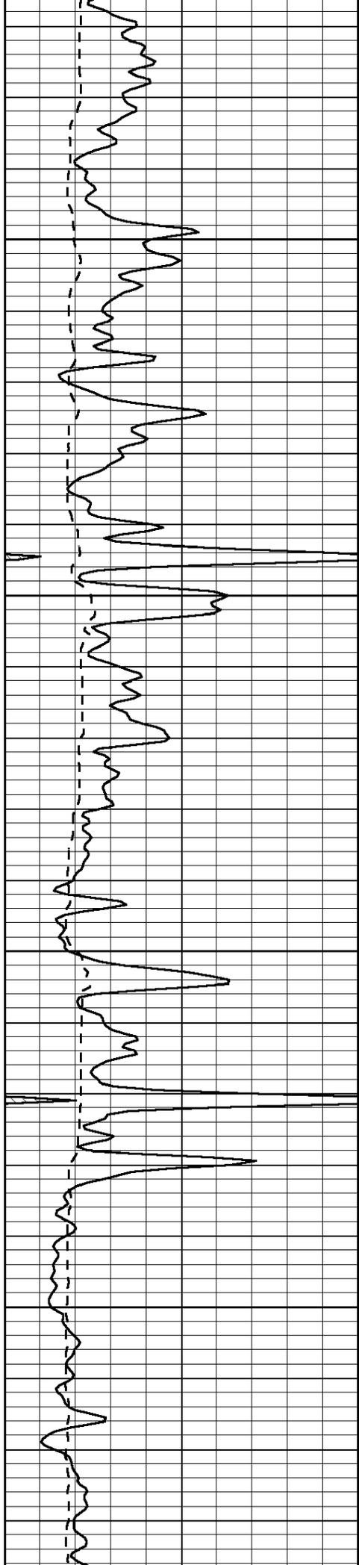


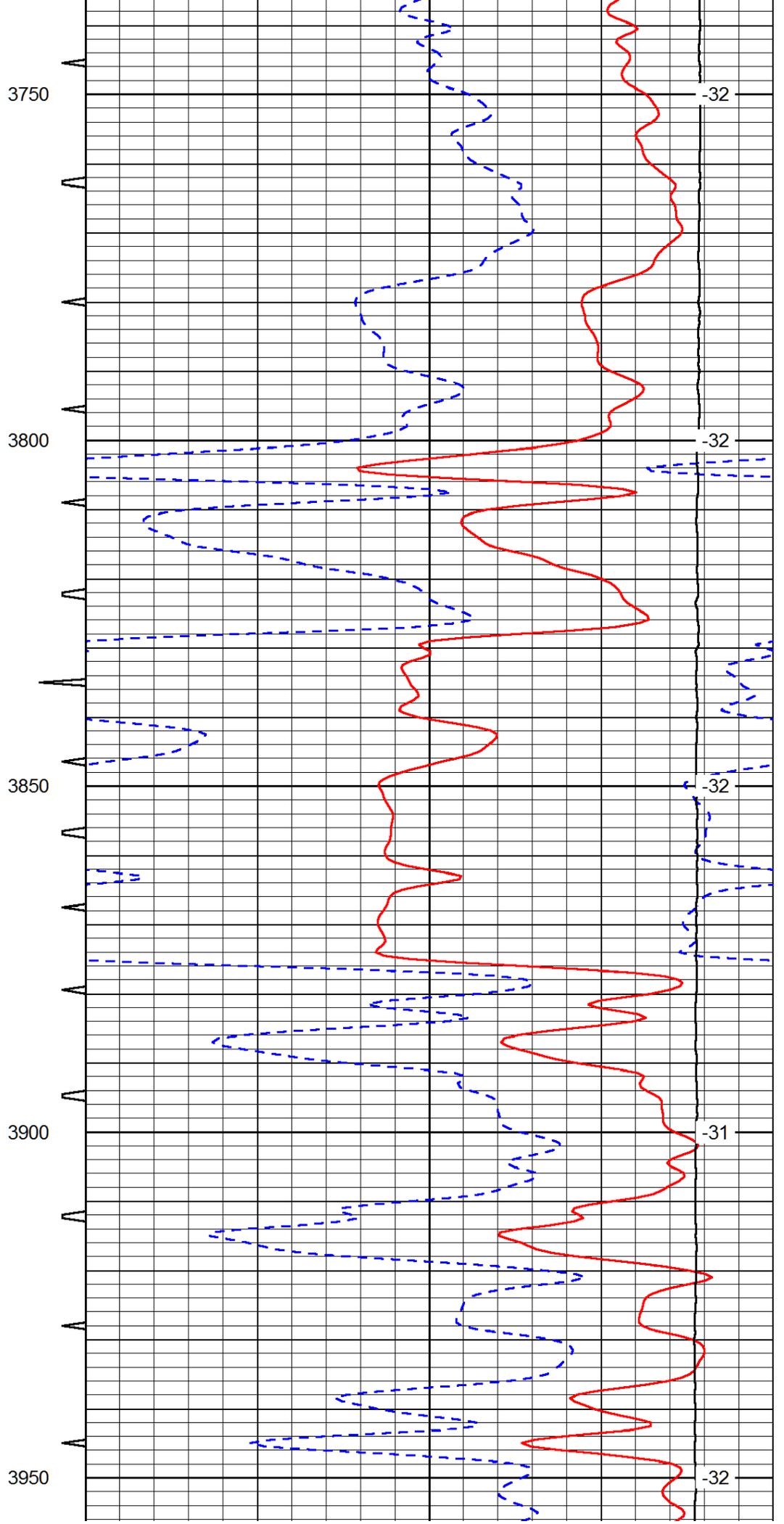
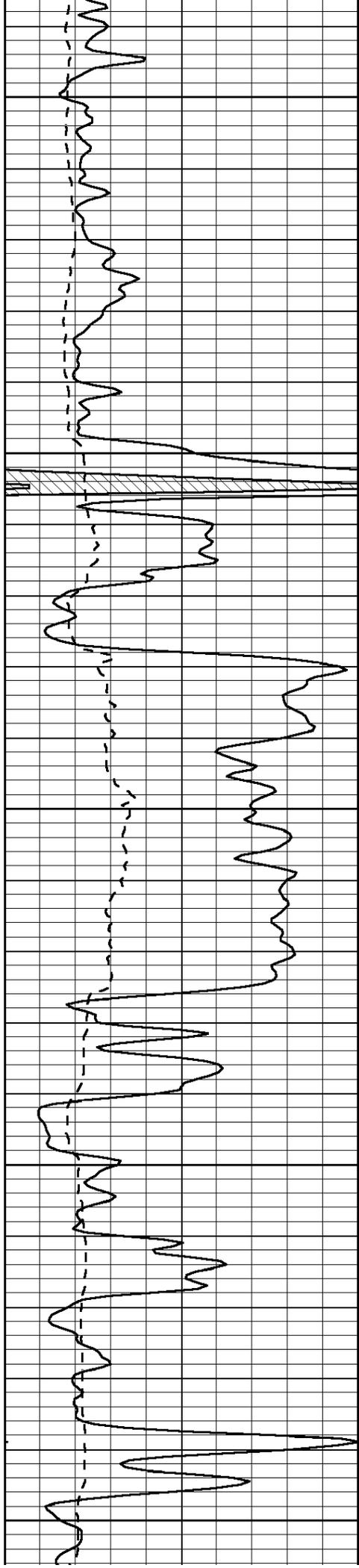


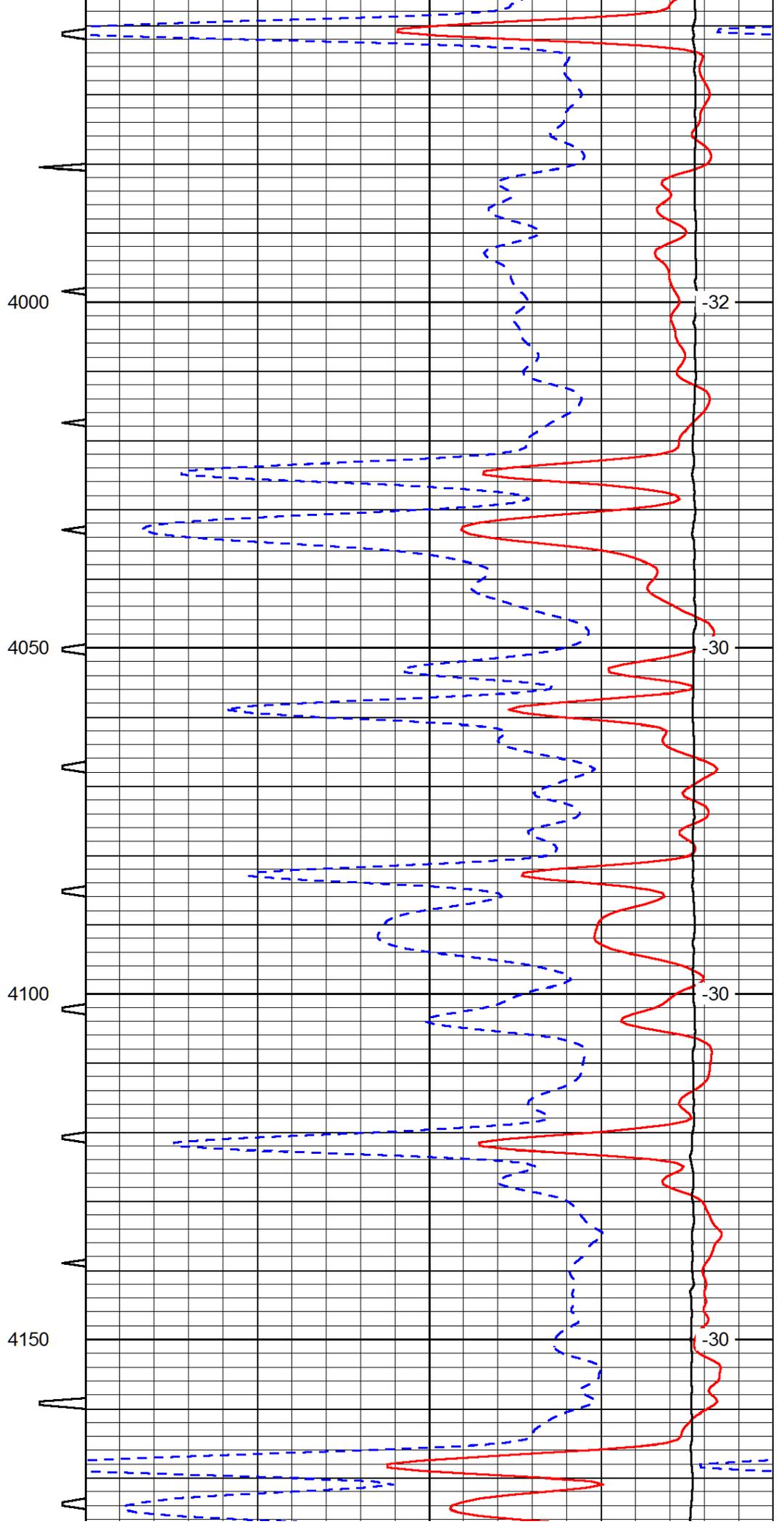
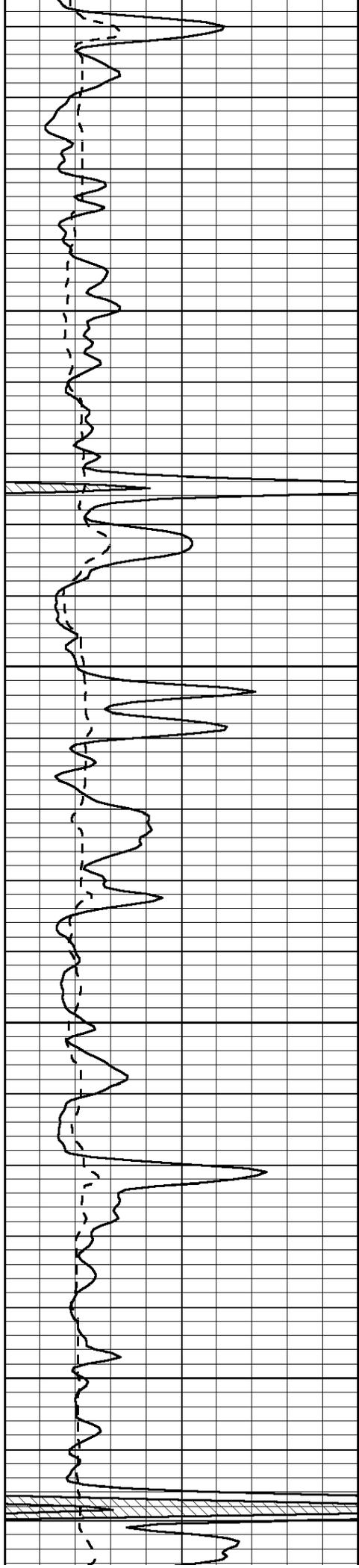


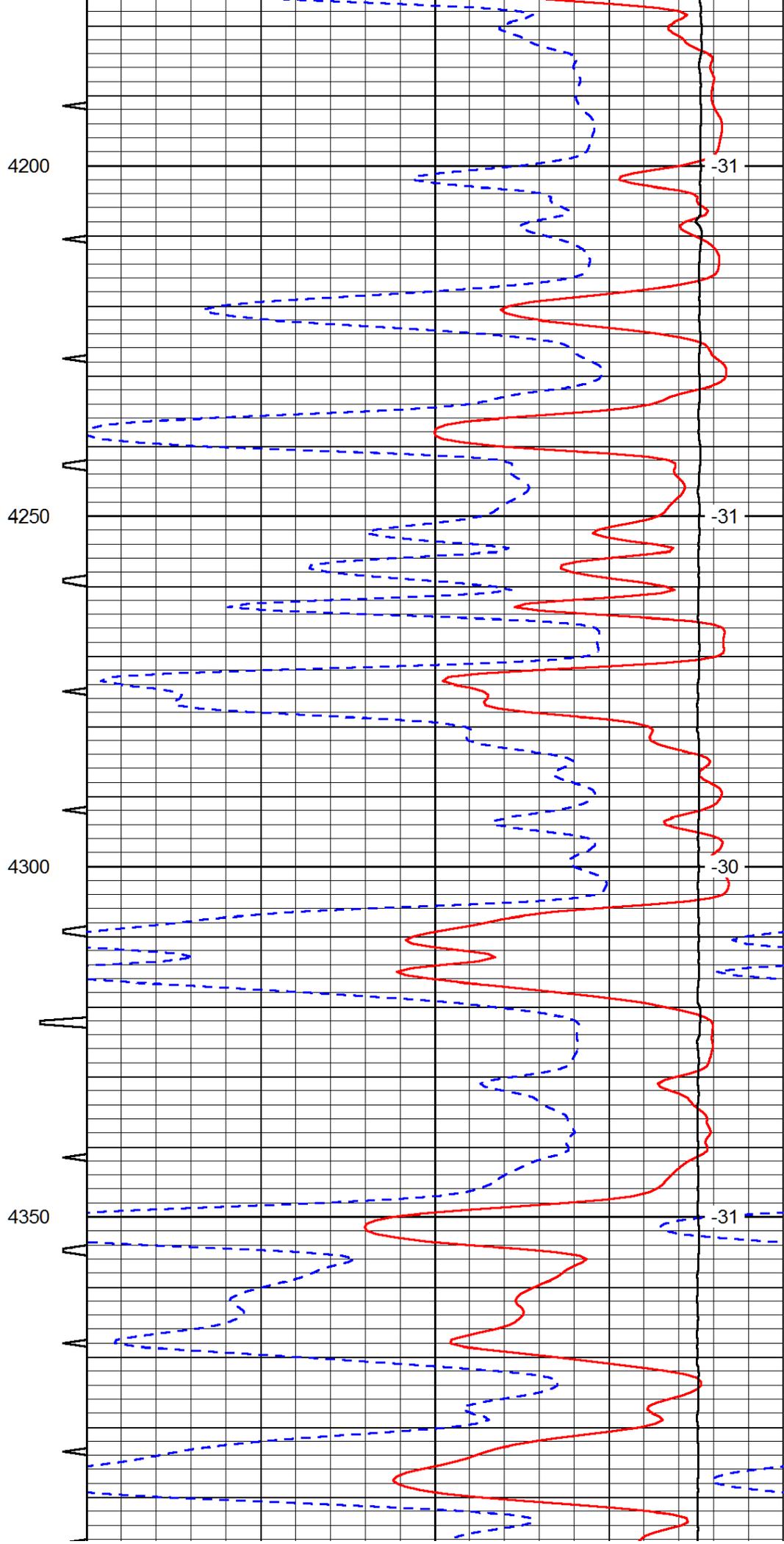
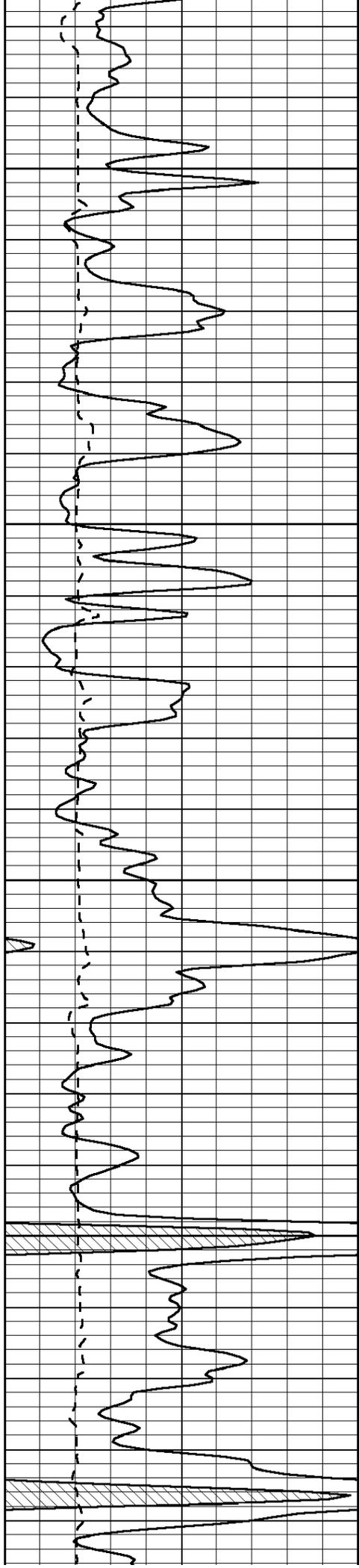


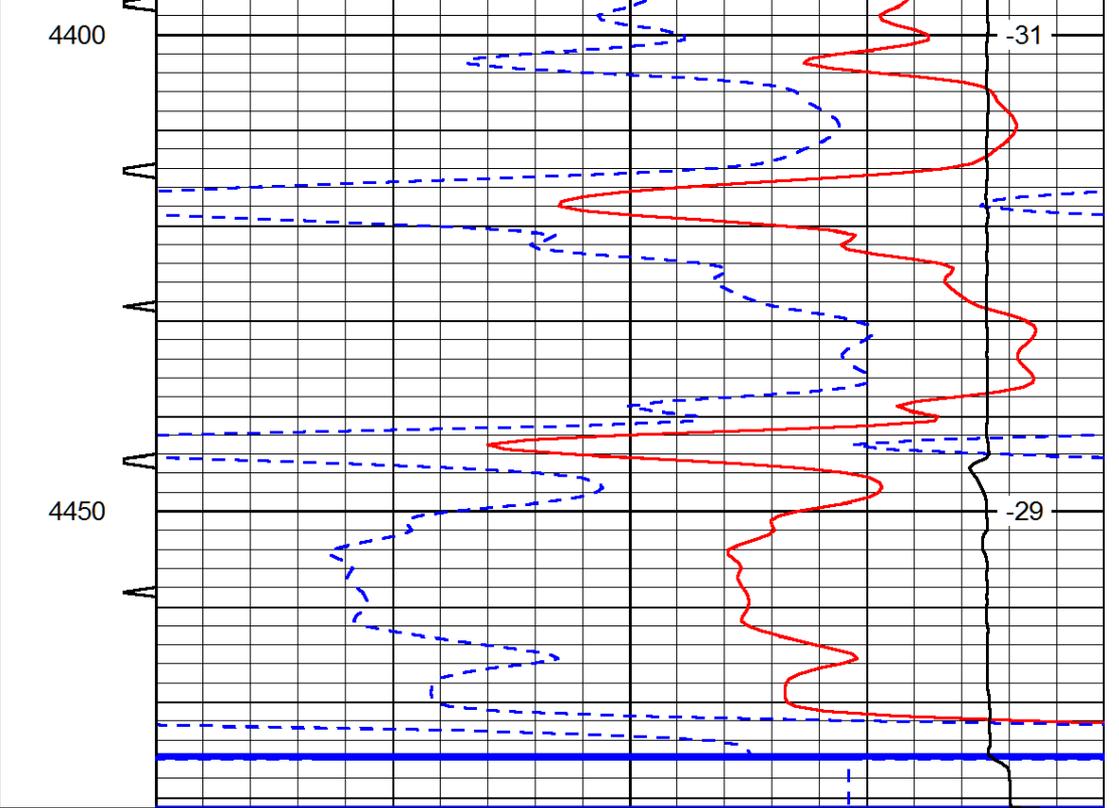
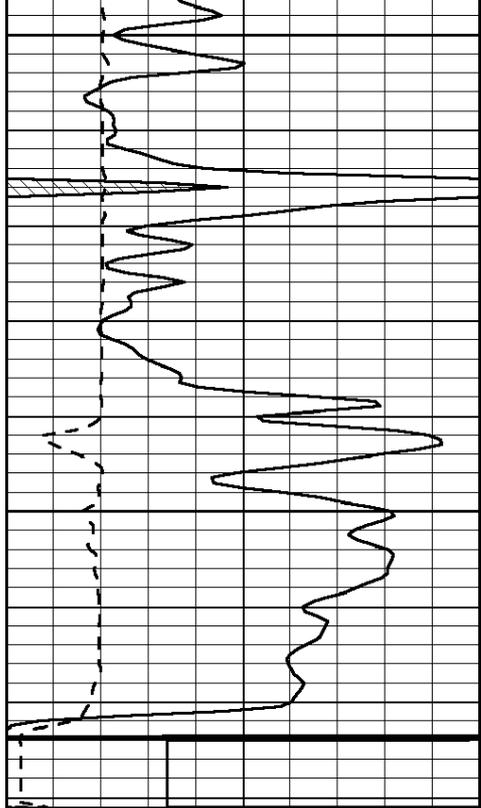












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LSPD
(ft/min)