



Pioneer Energy Services

Borehole Compensated Sonic Log

API No.	15-153-20,975-00-00		
Company	Murfin Drilling Company, Inc.		
Well	Mary Ann No. 8-1		
Field	Scoda		
County	Rawlins		
State	Kansas		
Location	1470' FNL & 630' FWL		
Sec: 1	Twp: 1S	Rge: 36W	Other Services CNL/CDL MEL/DIL
Permanent Datum	Ground Level	Elevation 3130	Elevation
Log Measured From	Kelly Bushing	11 Ft. Above Perm. Datum	K.B. 3141
Drilling Measured From	Kelly Bushing		D.F. G.L. 3130

Date	2/2/14		
Run Number	Two		
Type Log	BHC Sonic		
Depth Driller	4482		
Depth Logger	4485		
Bottom Logged Interval	4474		
Top Logged Interval	250		
Type Fluid In Hole	Chemical		
Salinity, PPM CL	1,000		
Density	8.9		
Level	Full		
Max. Rec. Temp. F	121		
Operating Rig Time	5 Hours		
Equipment -- Location	15 Hays		
Recorded By	J. Henrickson		
Witnessed By	Wes Hansen		

Borehole Record		Casing Record					
Run No.	Bit	From	To	Size	Wgt.	From	To
One	12.25	00	265	8.625	23#	00	265
Two	7.875	265	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.

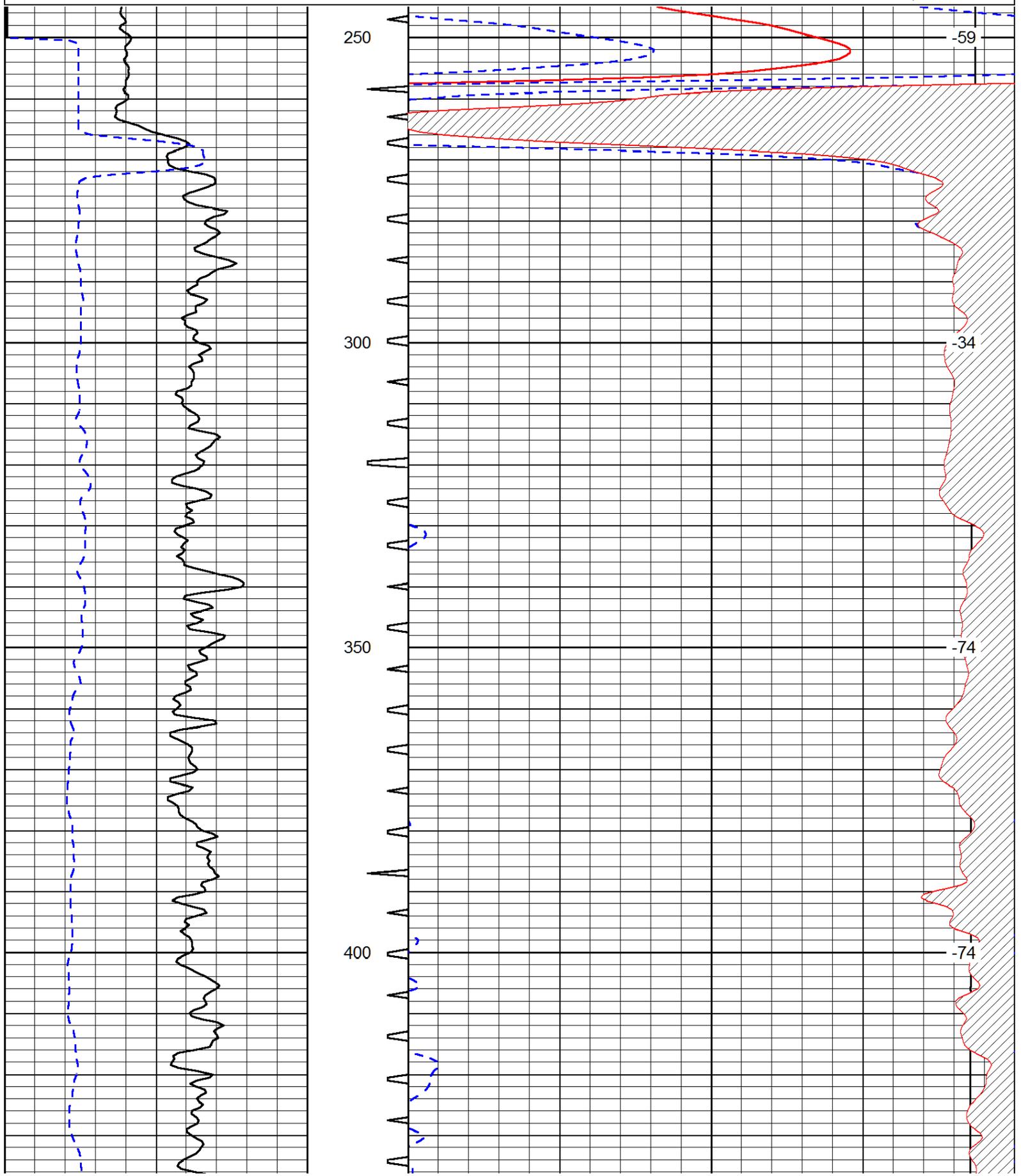
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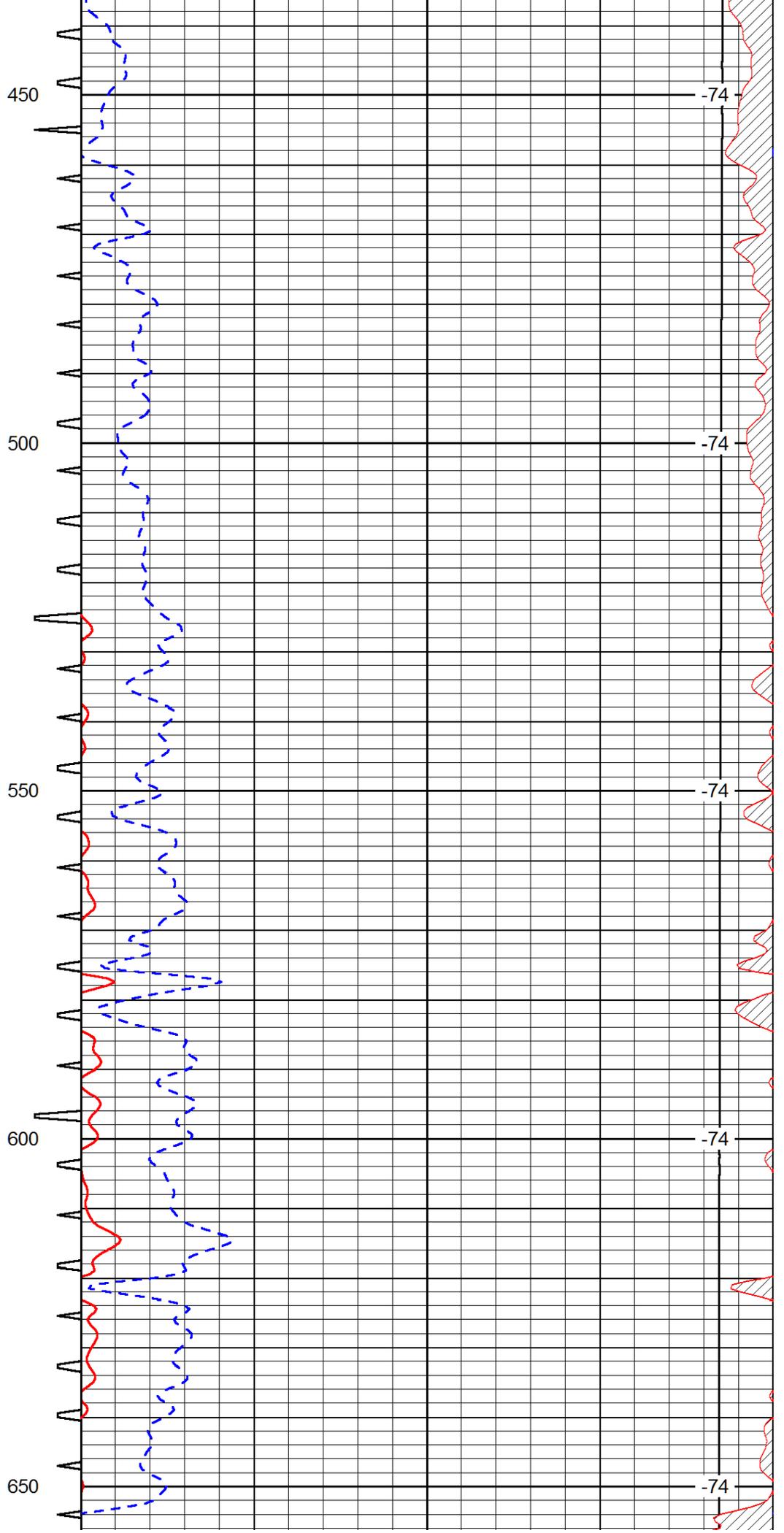
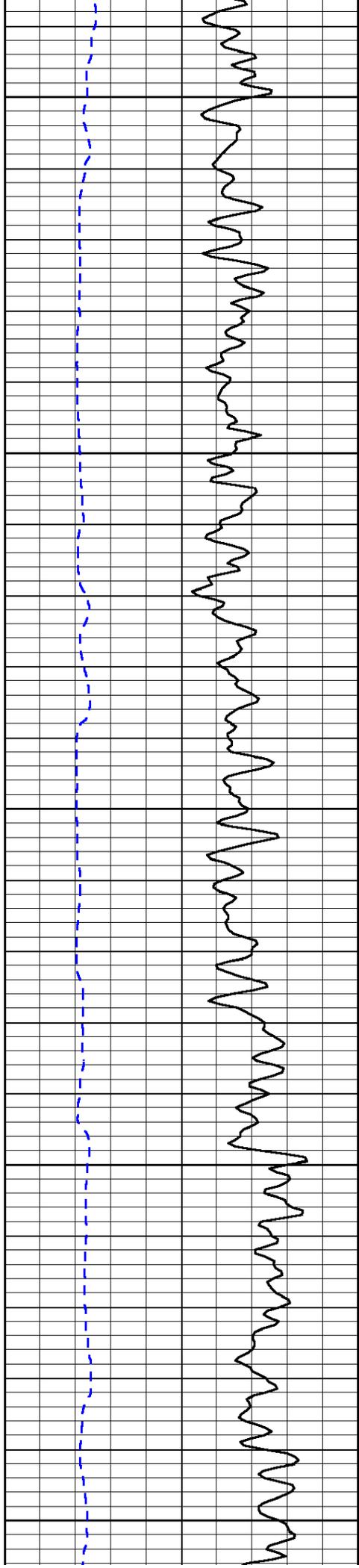
Thank you for using Log-Tech, Inc.
(785) 625-3858

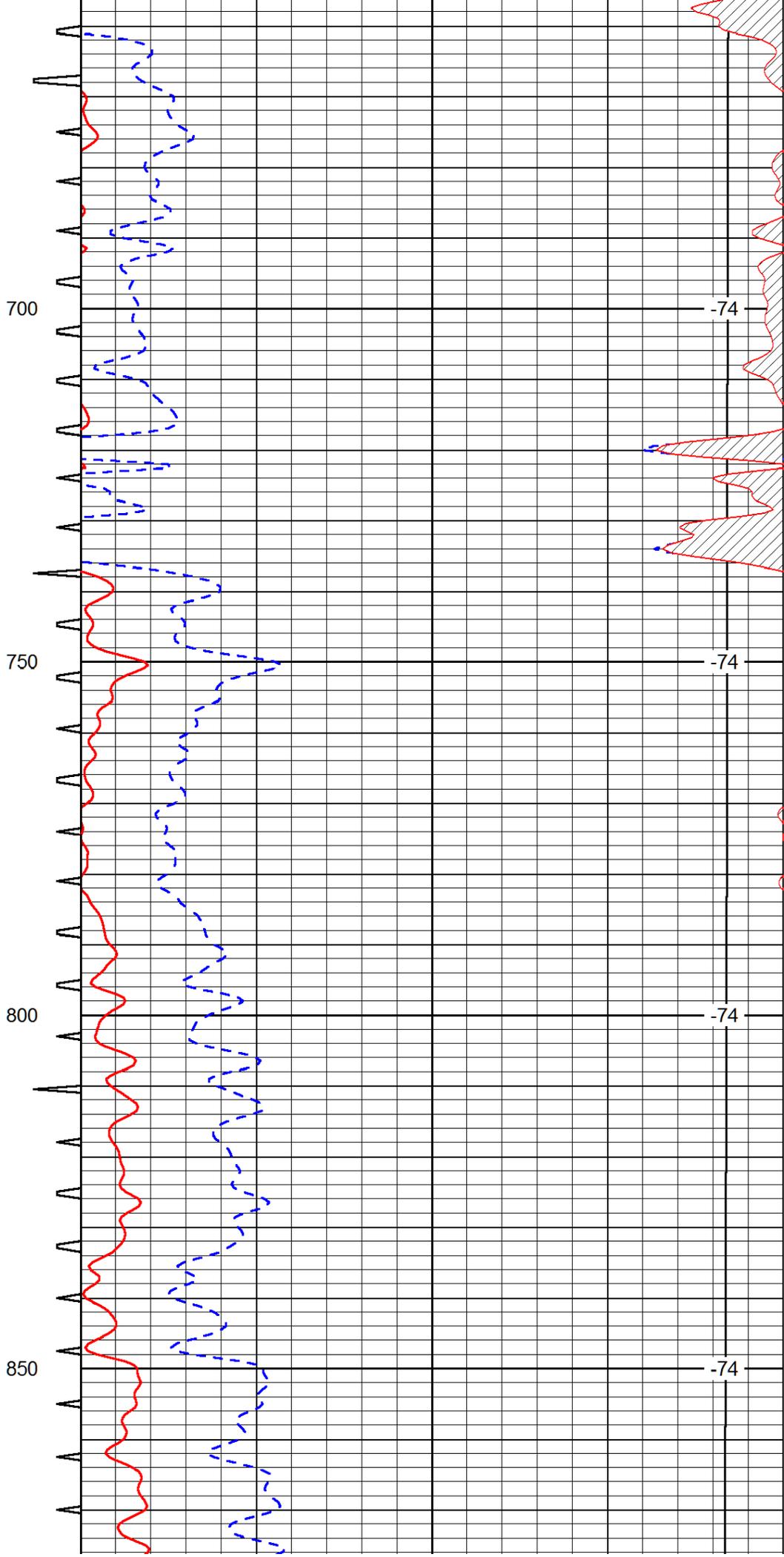
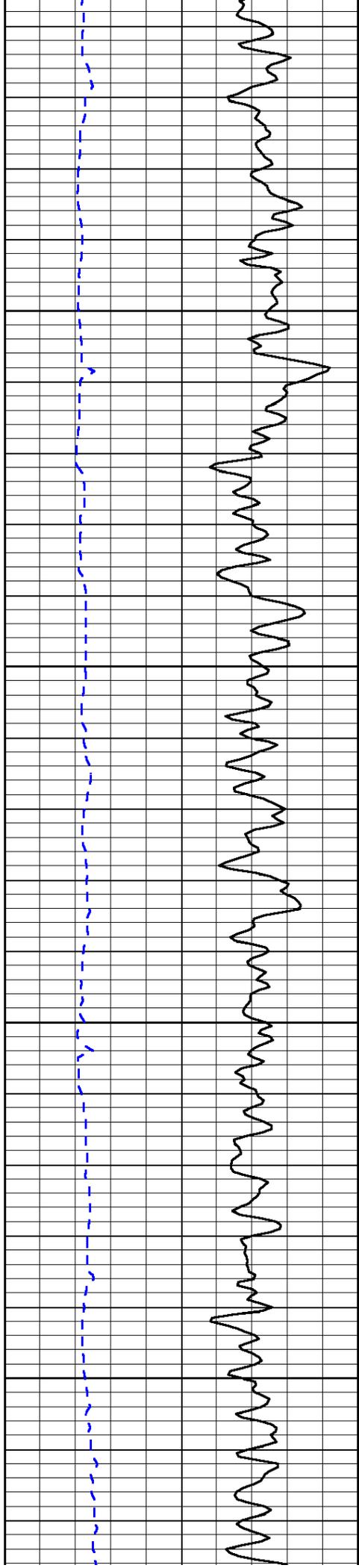
Beardsley Kansas
North to AA Rd, West to 7 Rd, 3 North, West Into
(Follow Lease Rd West all the Way to the Rig through curves)

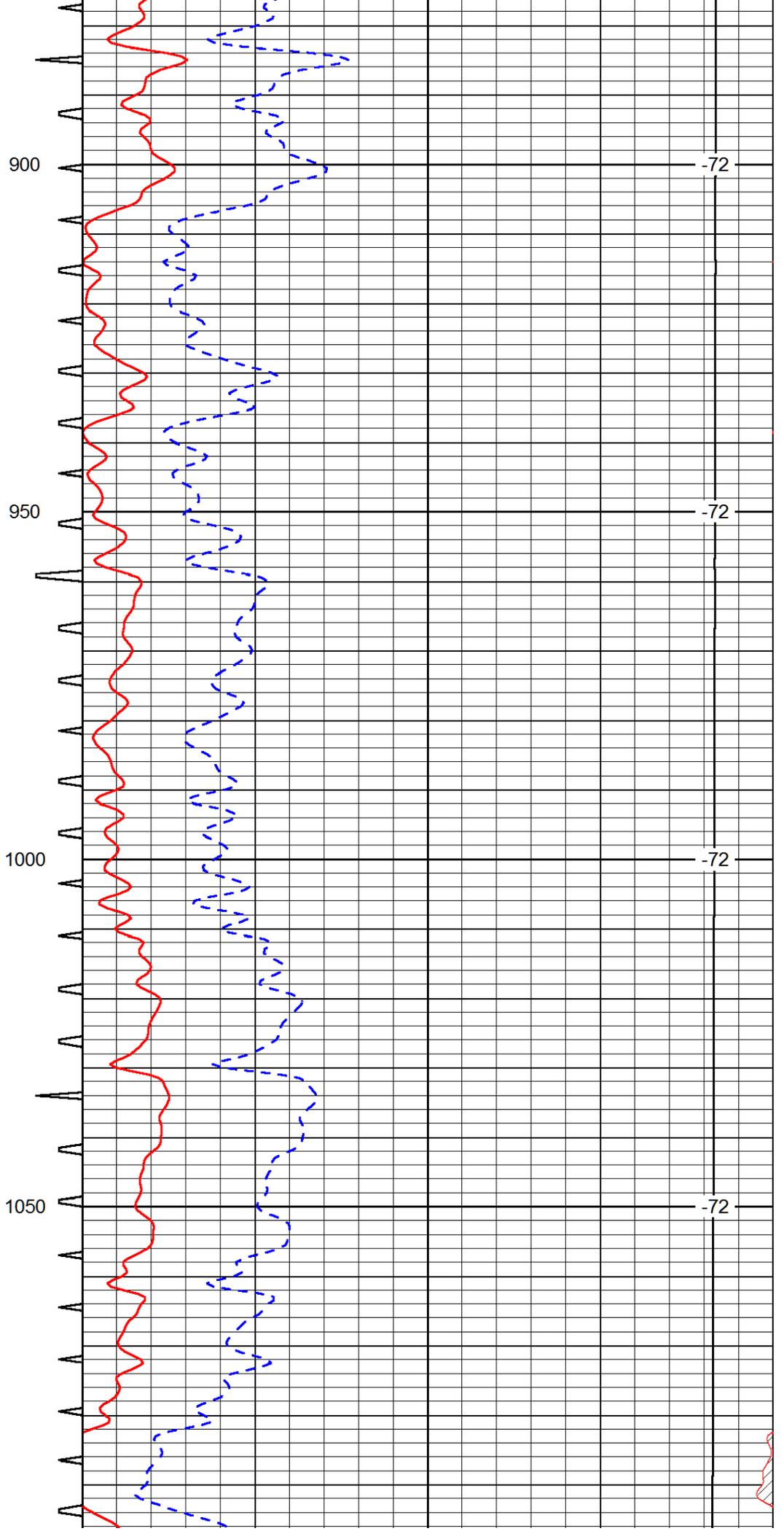
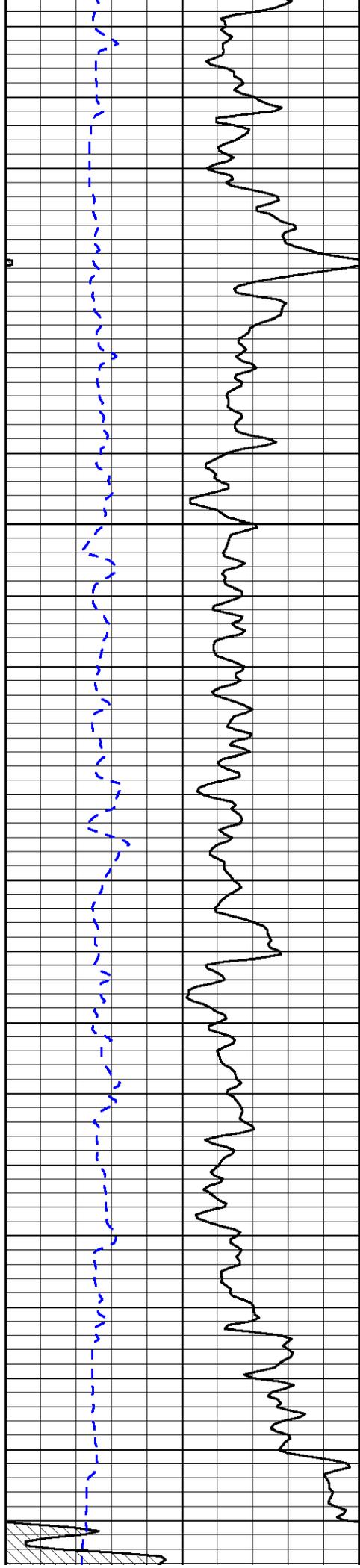
Database File: murfin_mary_ann_8_1hd.db
 Dataset Pathname: DIL/murfstk
 Presentation Format: sonic
 Dataset Creation: Mon Feb 03 01:10:53 2014
 Charted by: Depth in Feet scaled 1:240

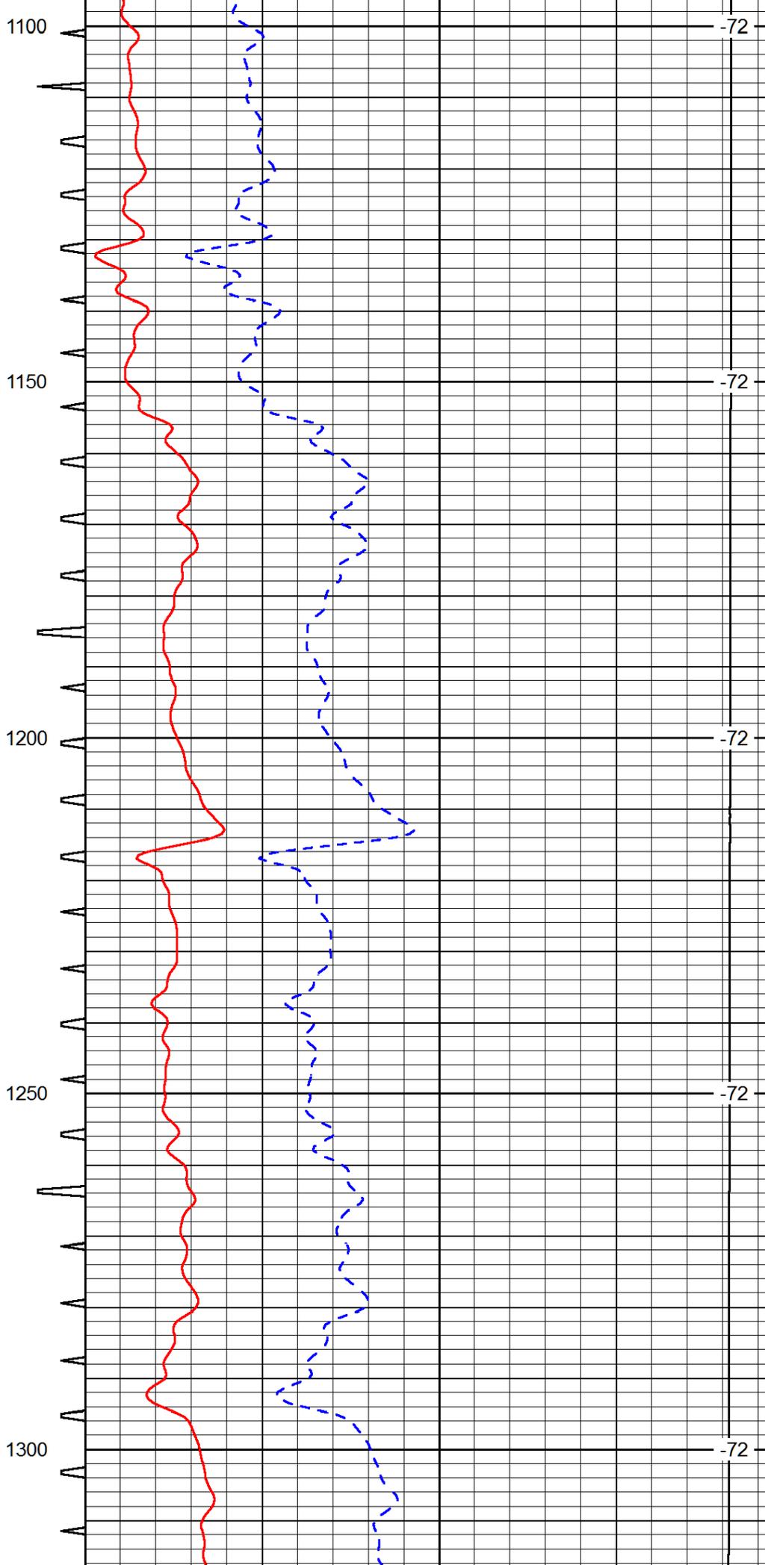
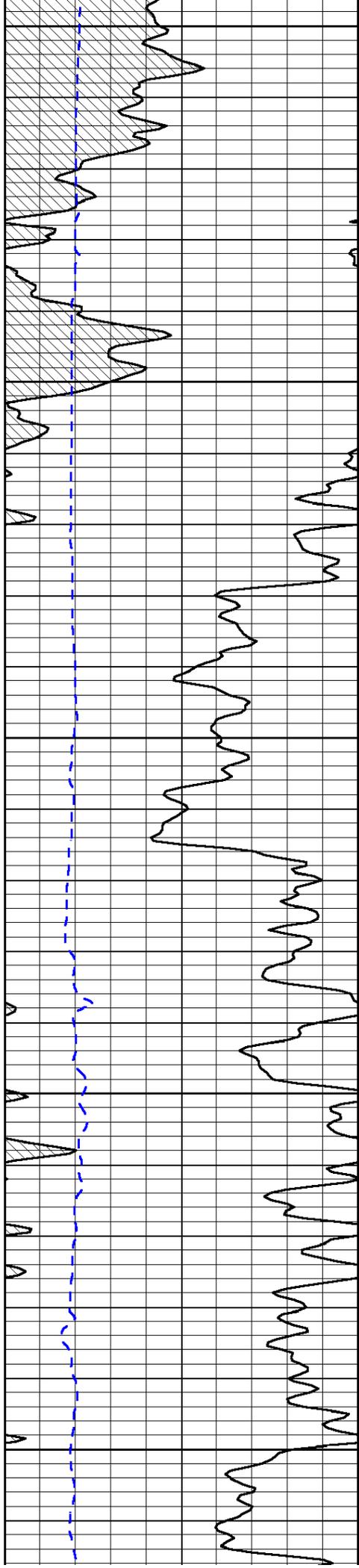
0	Gamma Ray (GAPI)	150	Sonic Int	140	Delta Time (usec/ft) (usec/ft)	40
150	Gamma Ray (GAPI)	300	5 (msec) 0	30	Sonic Porosity (pu)	-10
6	dCAL (in)	16		15000	LTEN (lb) (lb)	0
						LSPD (ft/min)

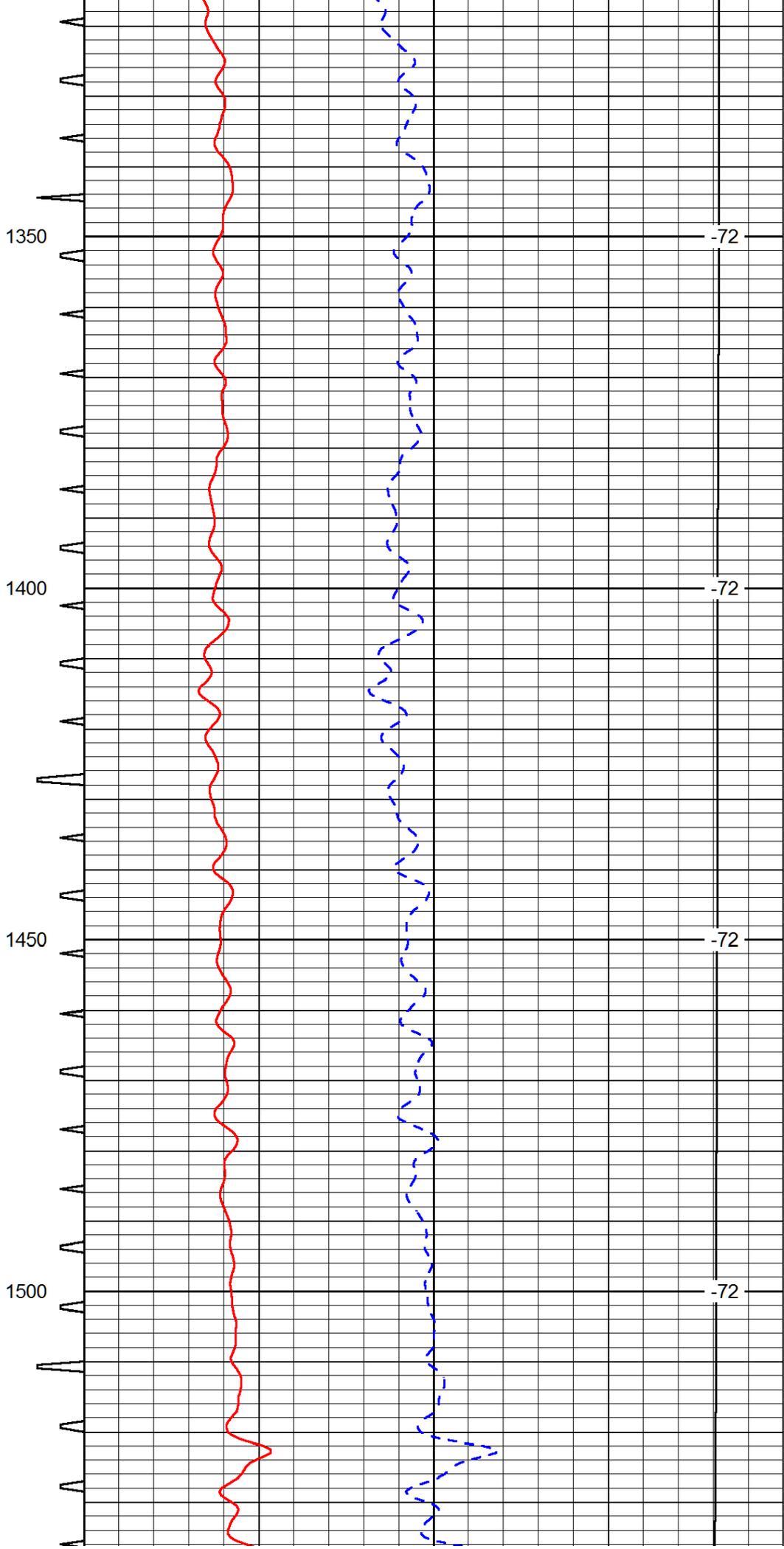
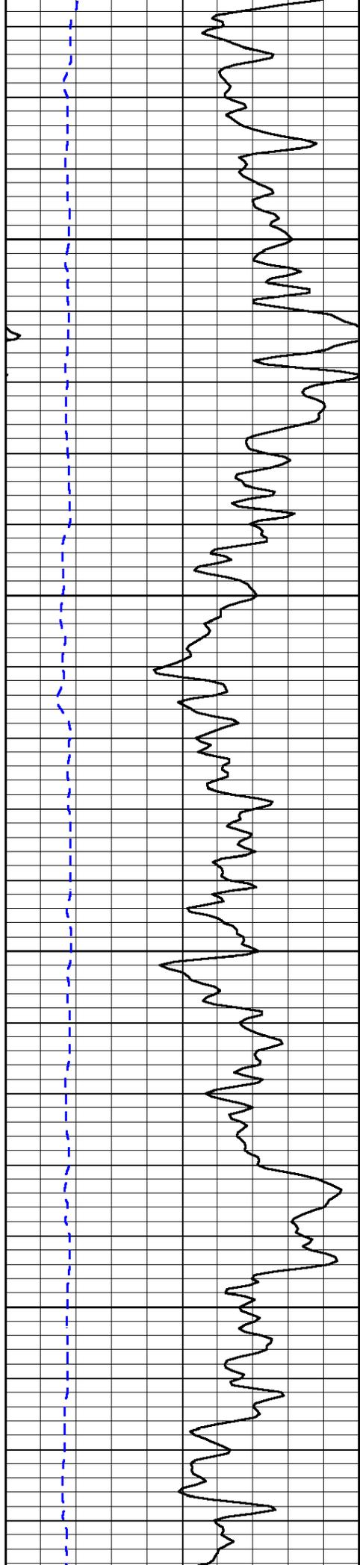


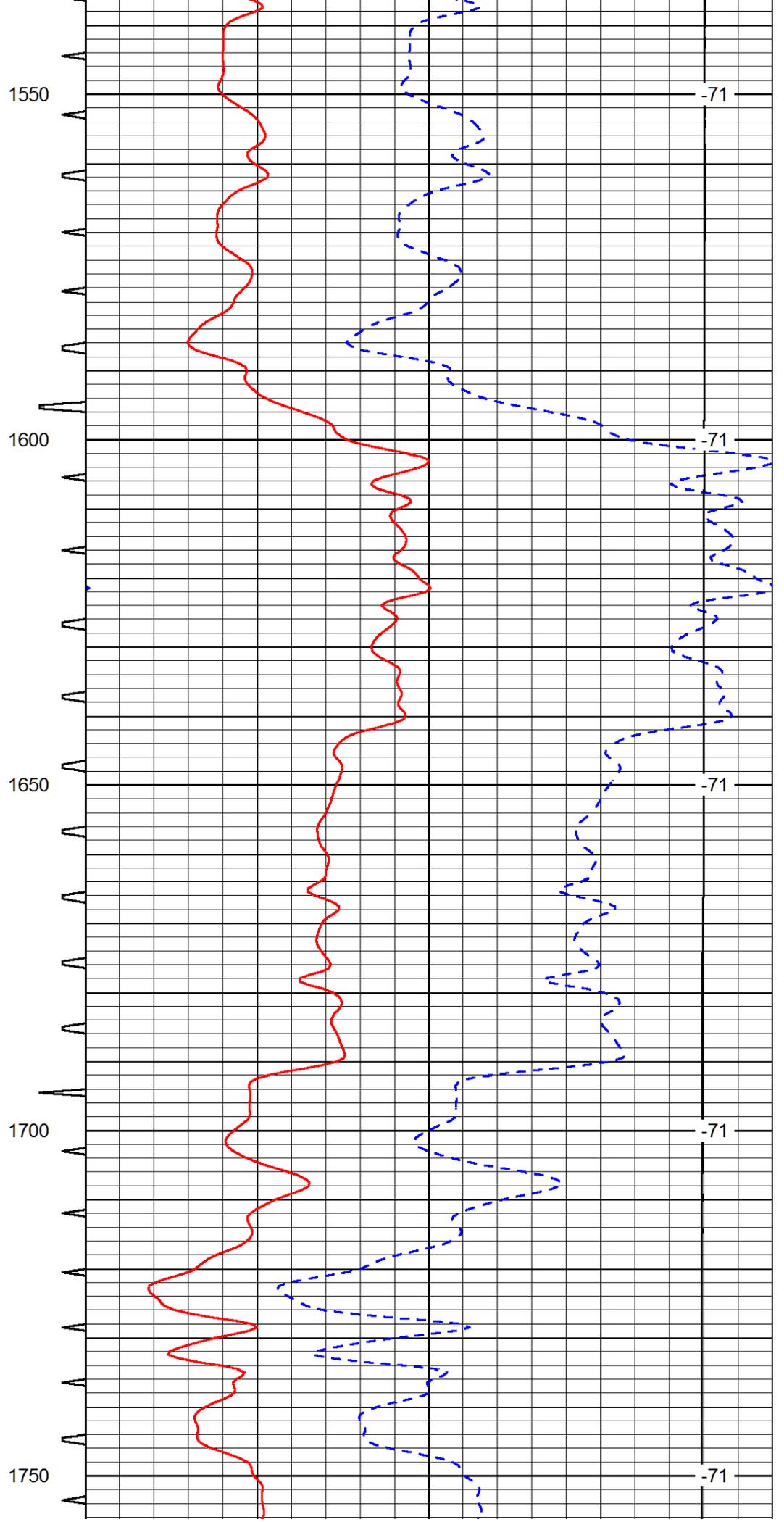
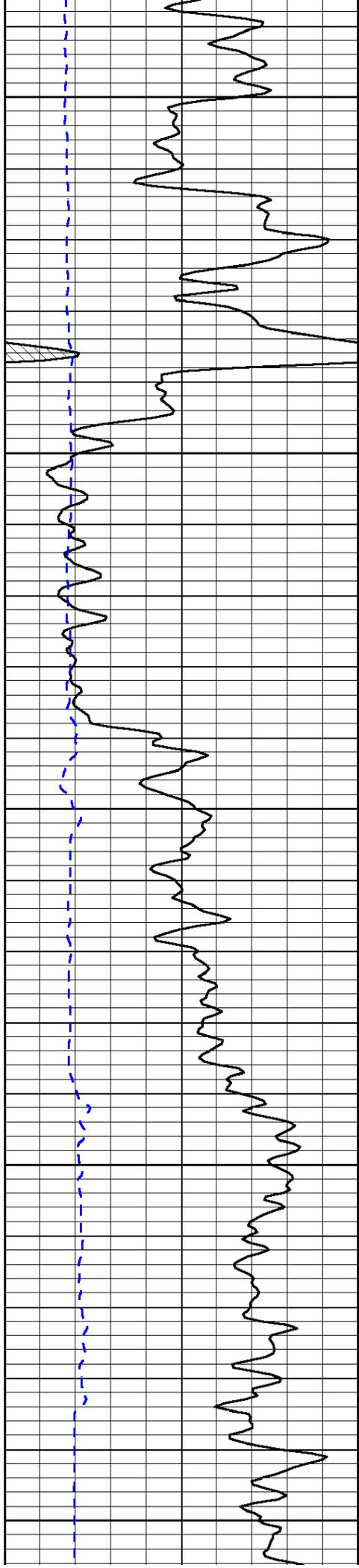


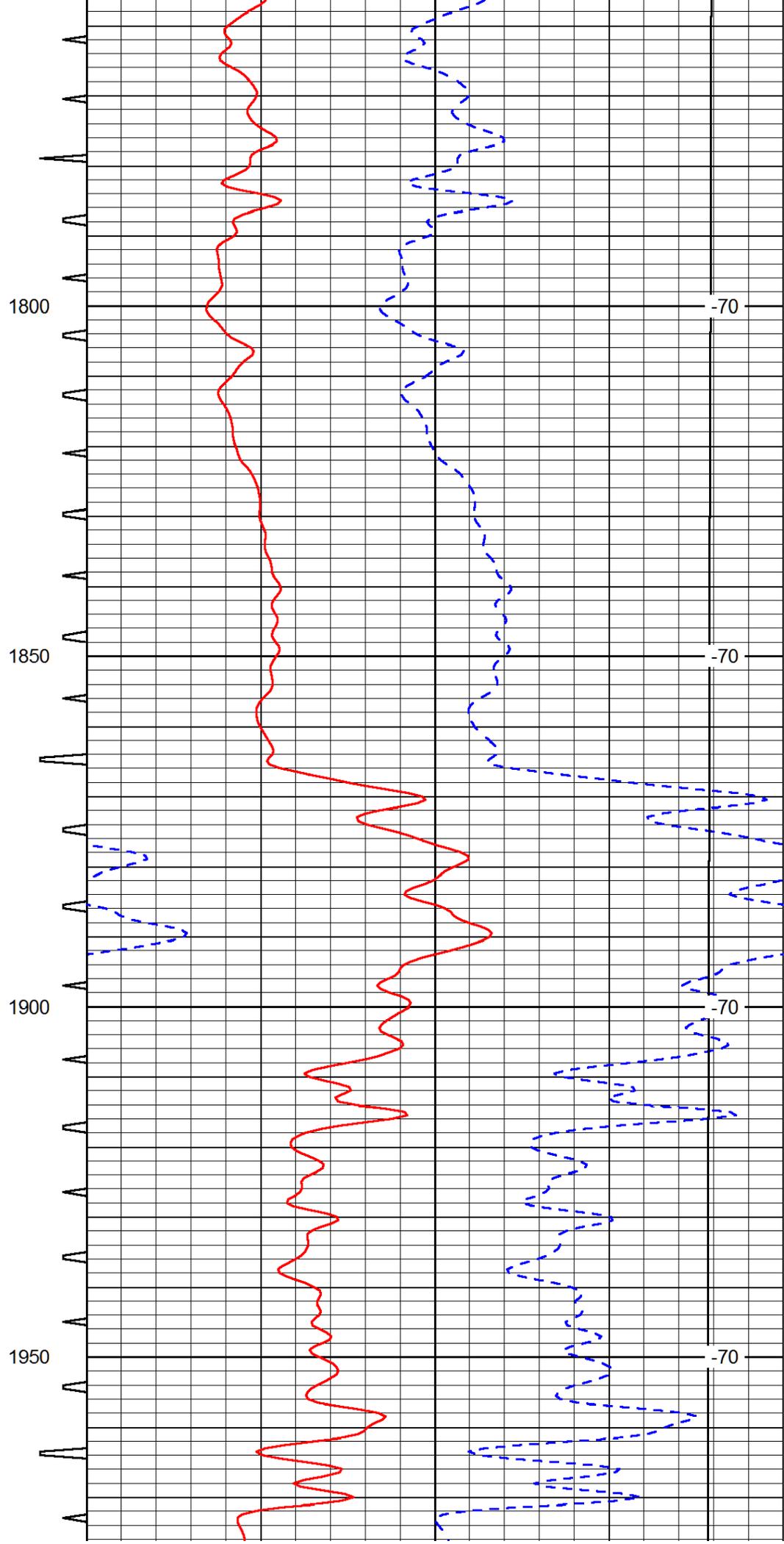
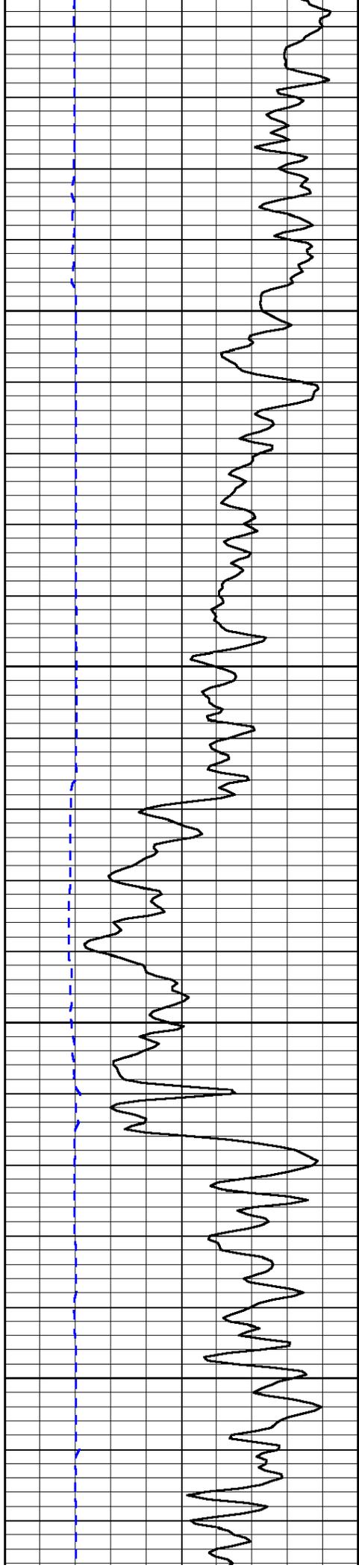


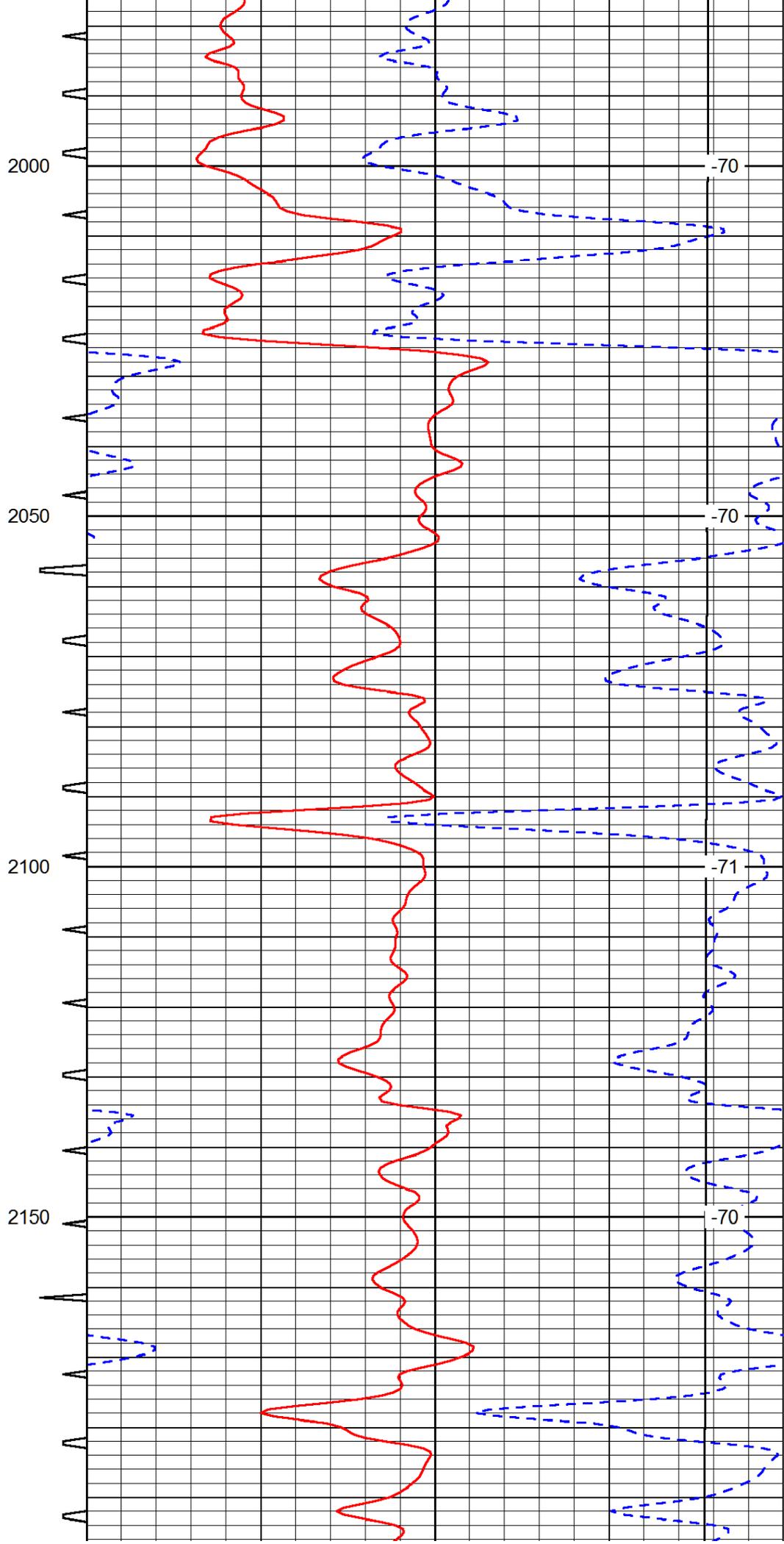
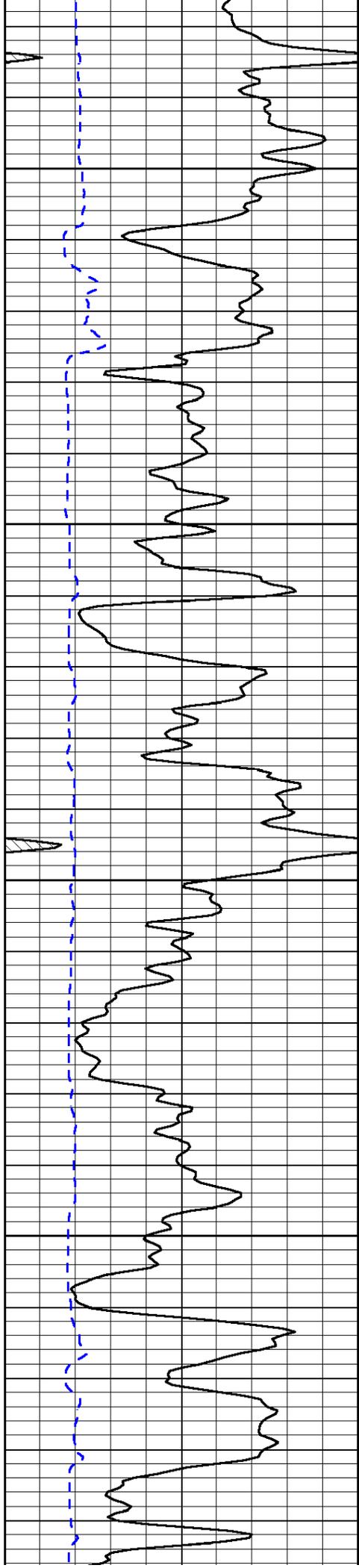


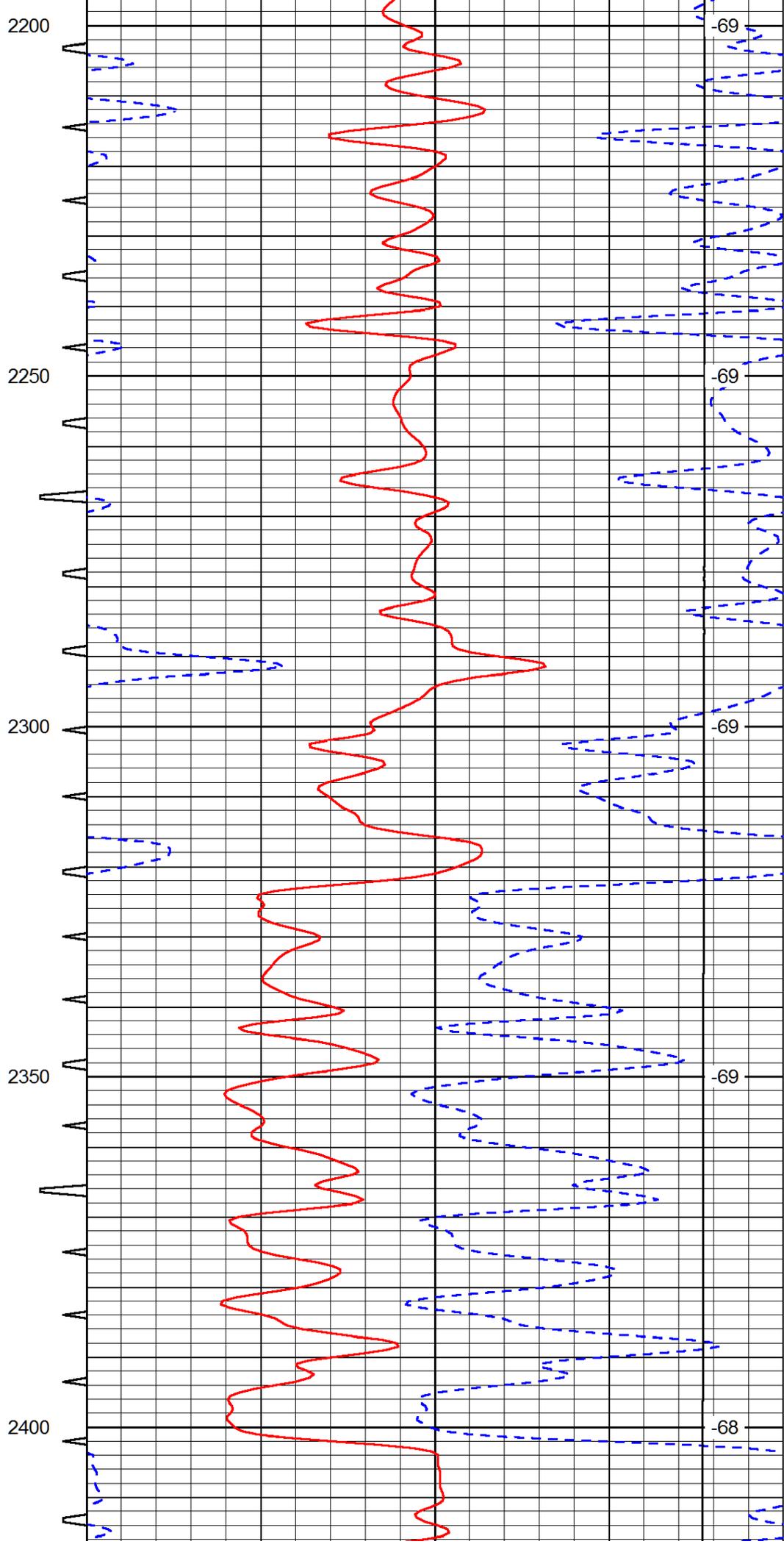
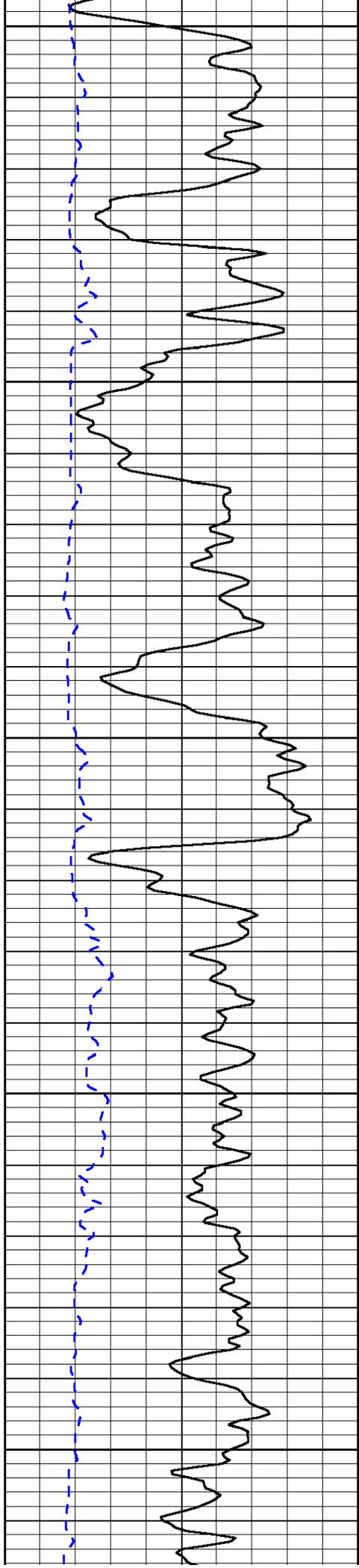


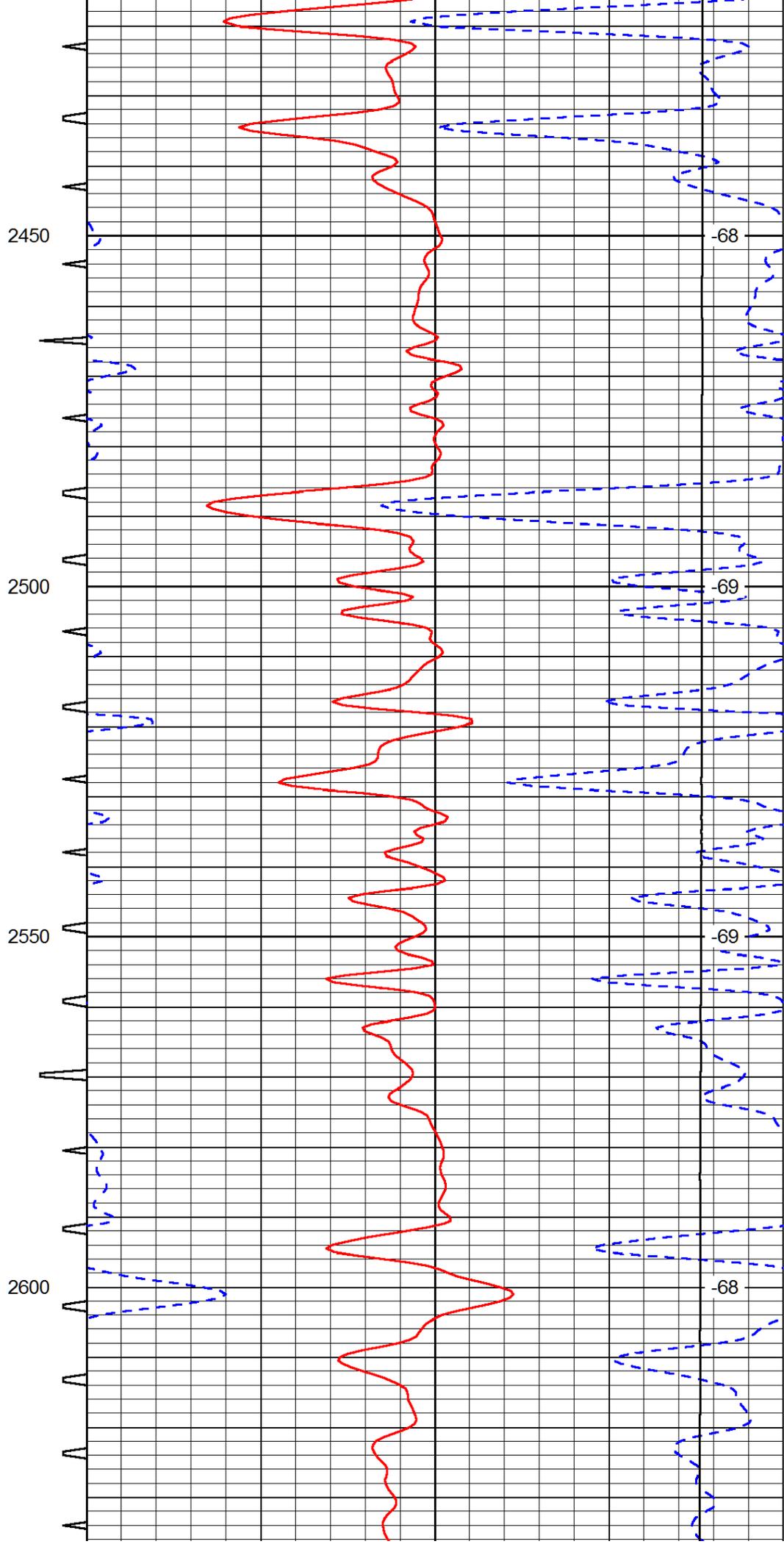
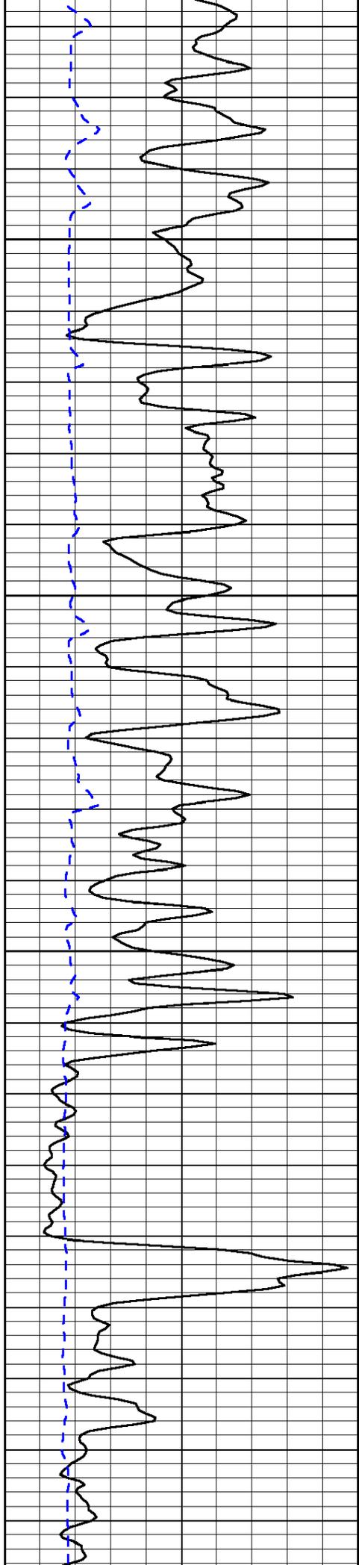


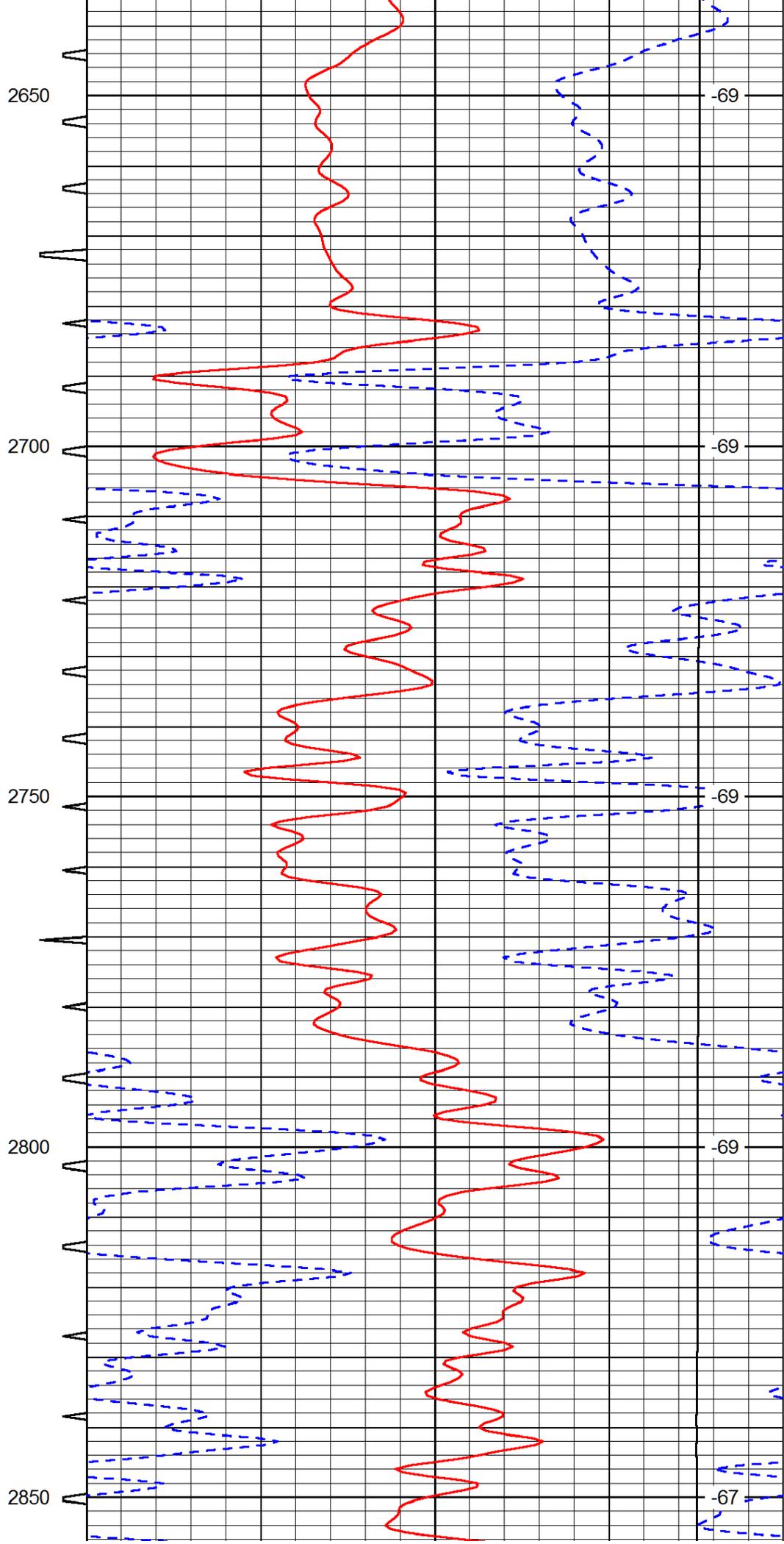
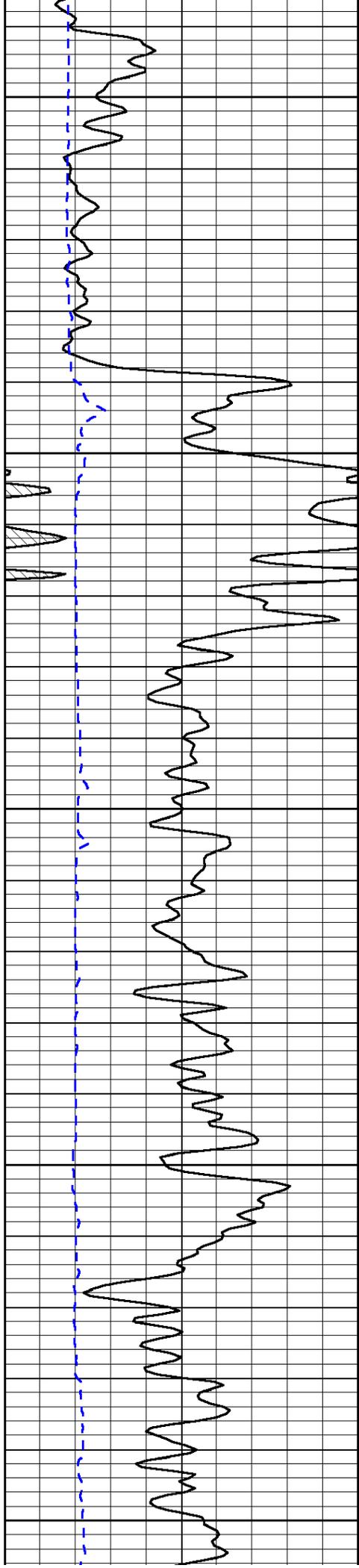


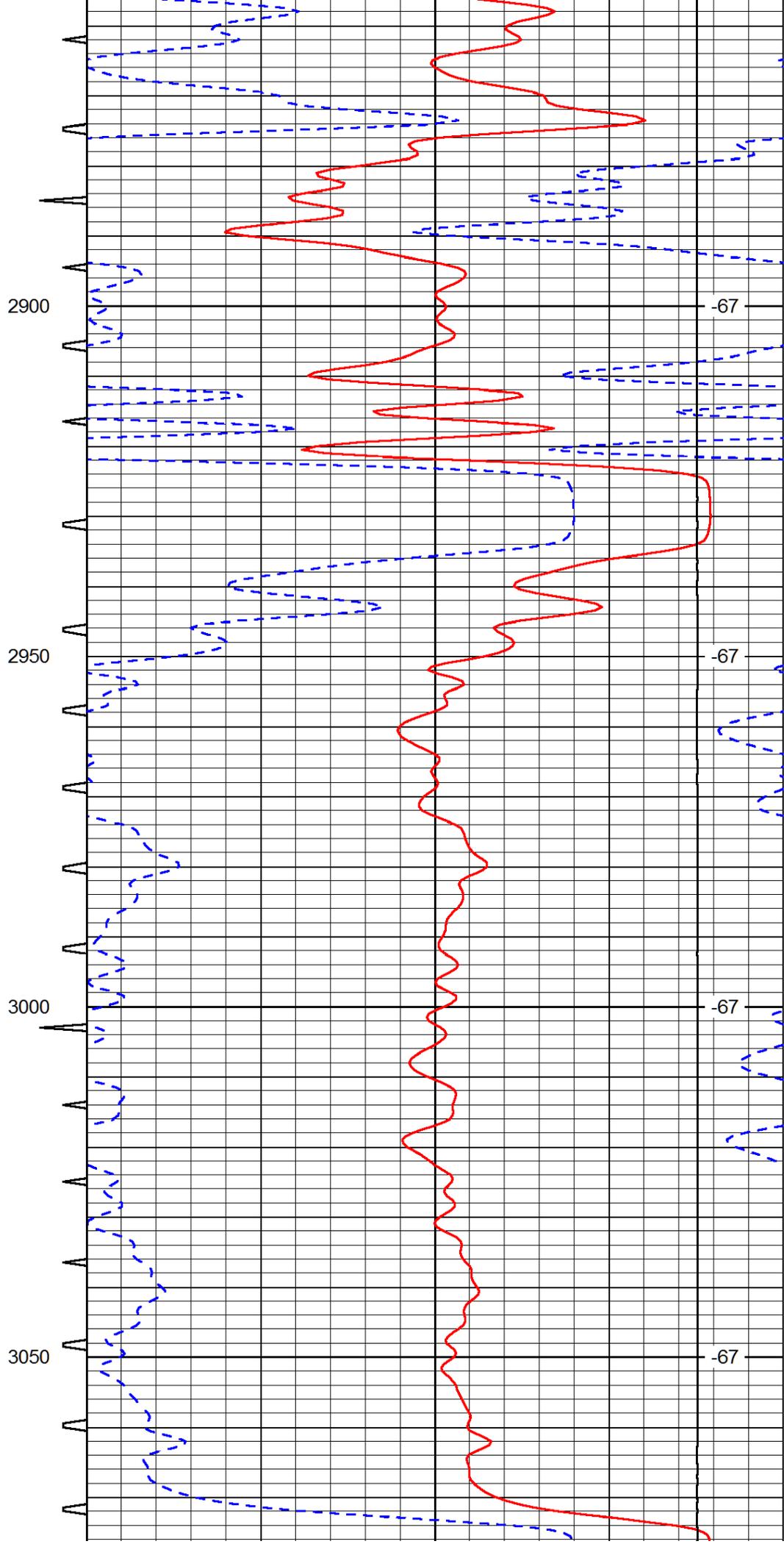
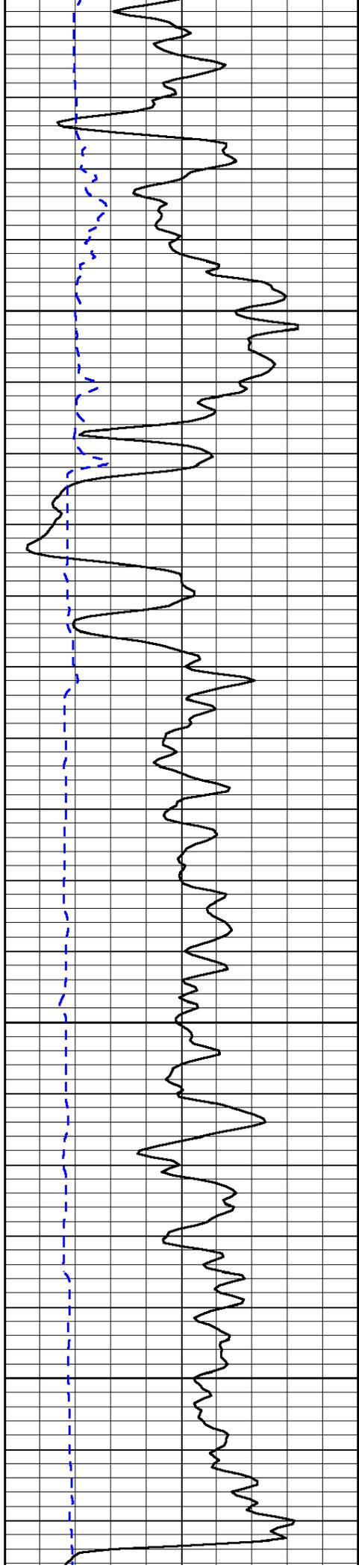


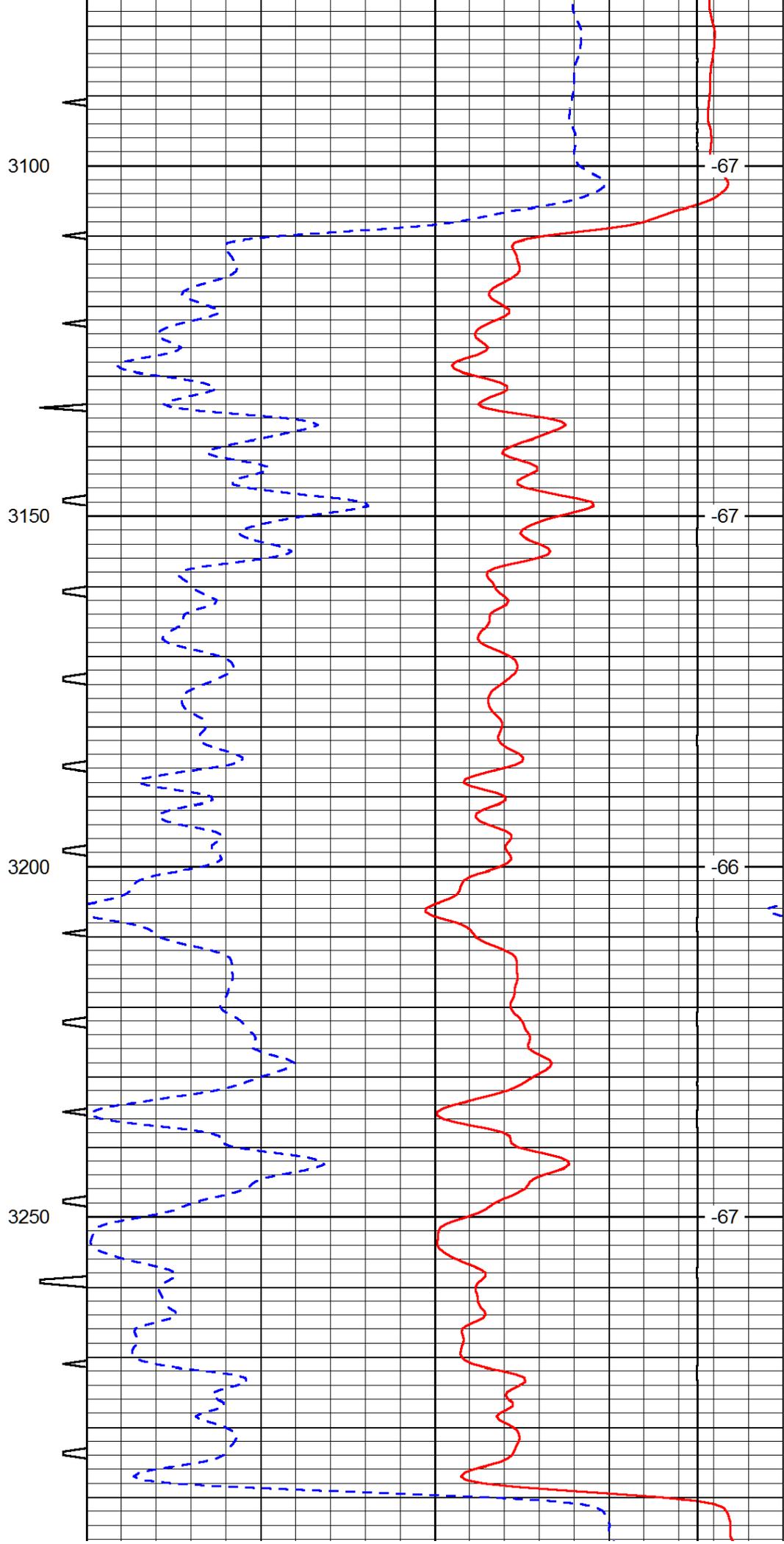
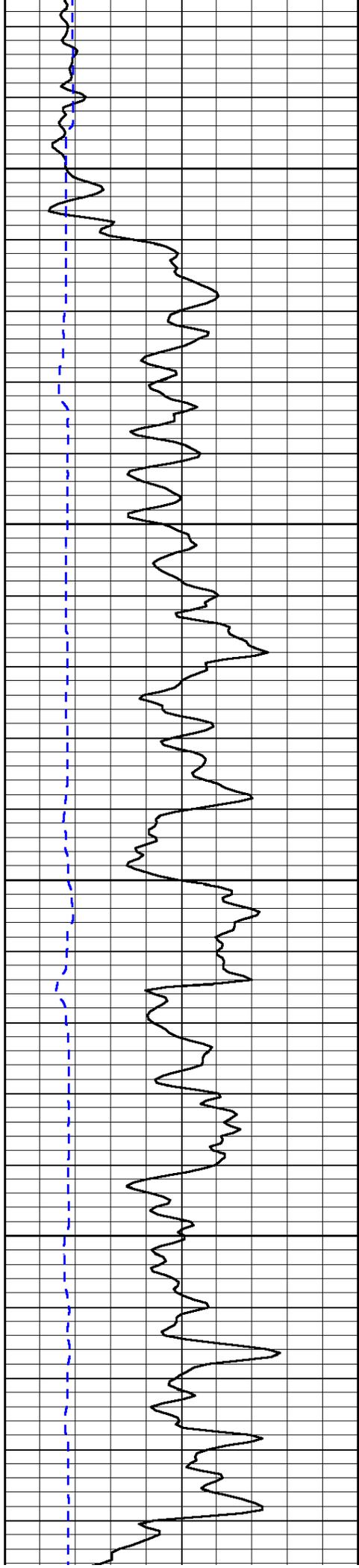


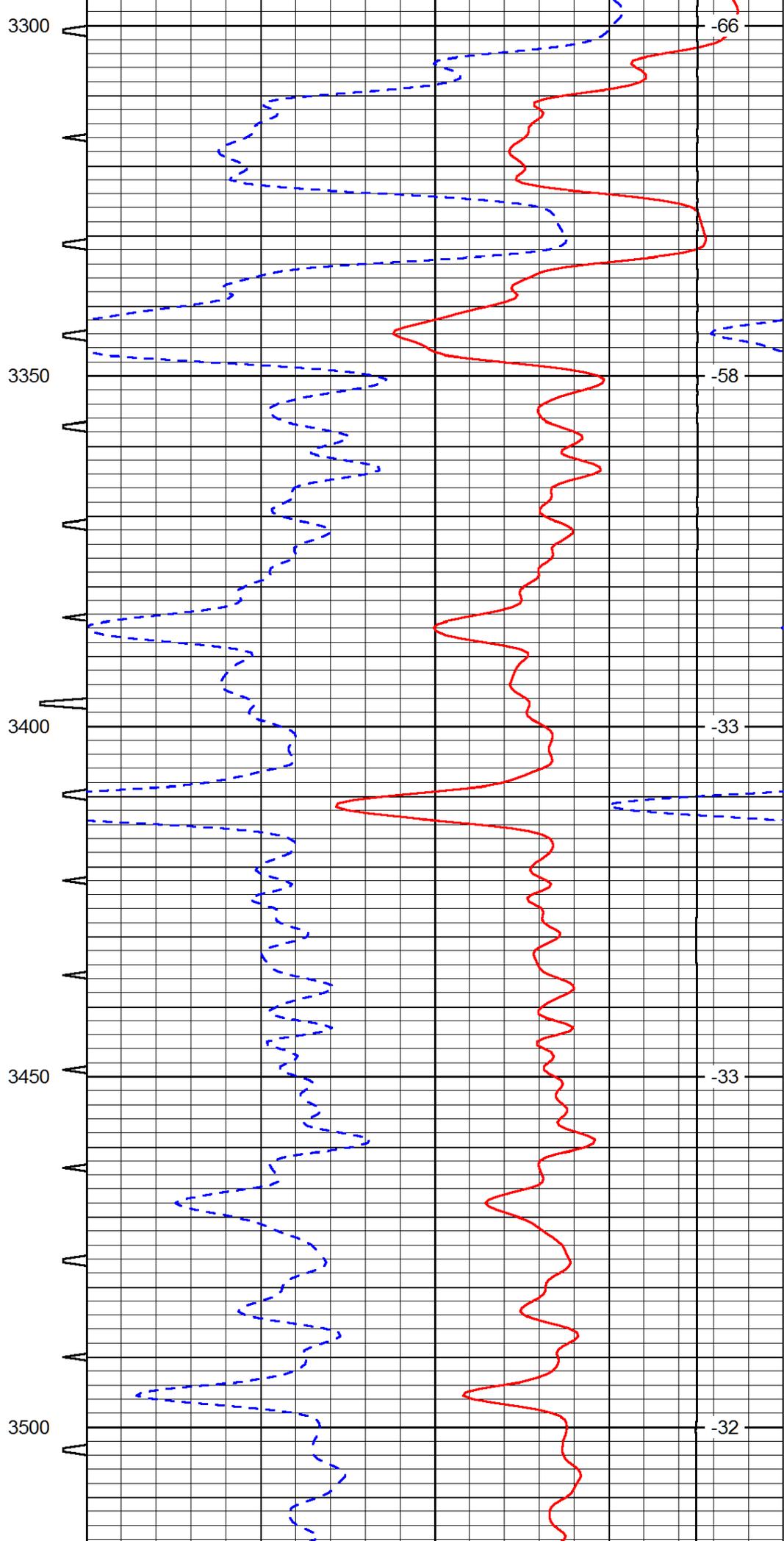
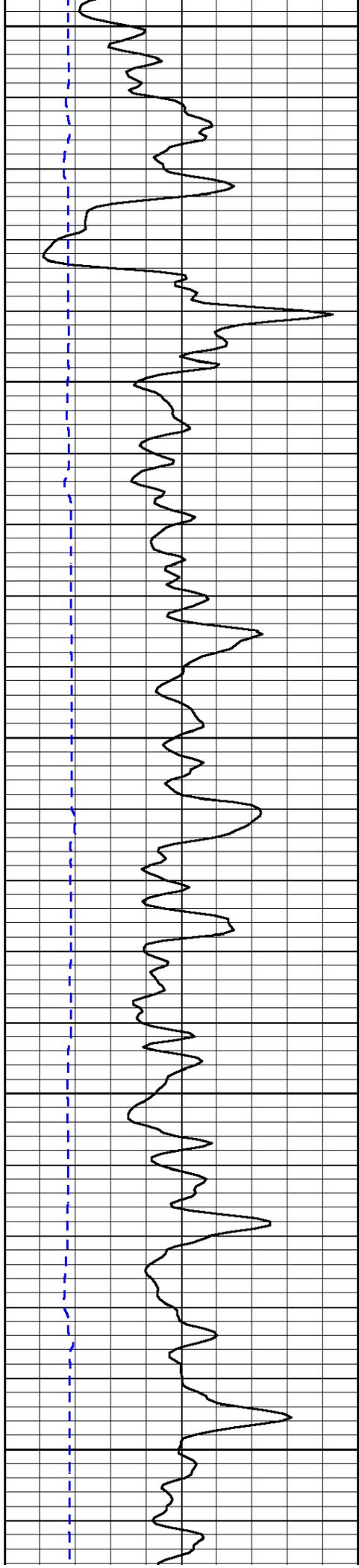


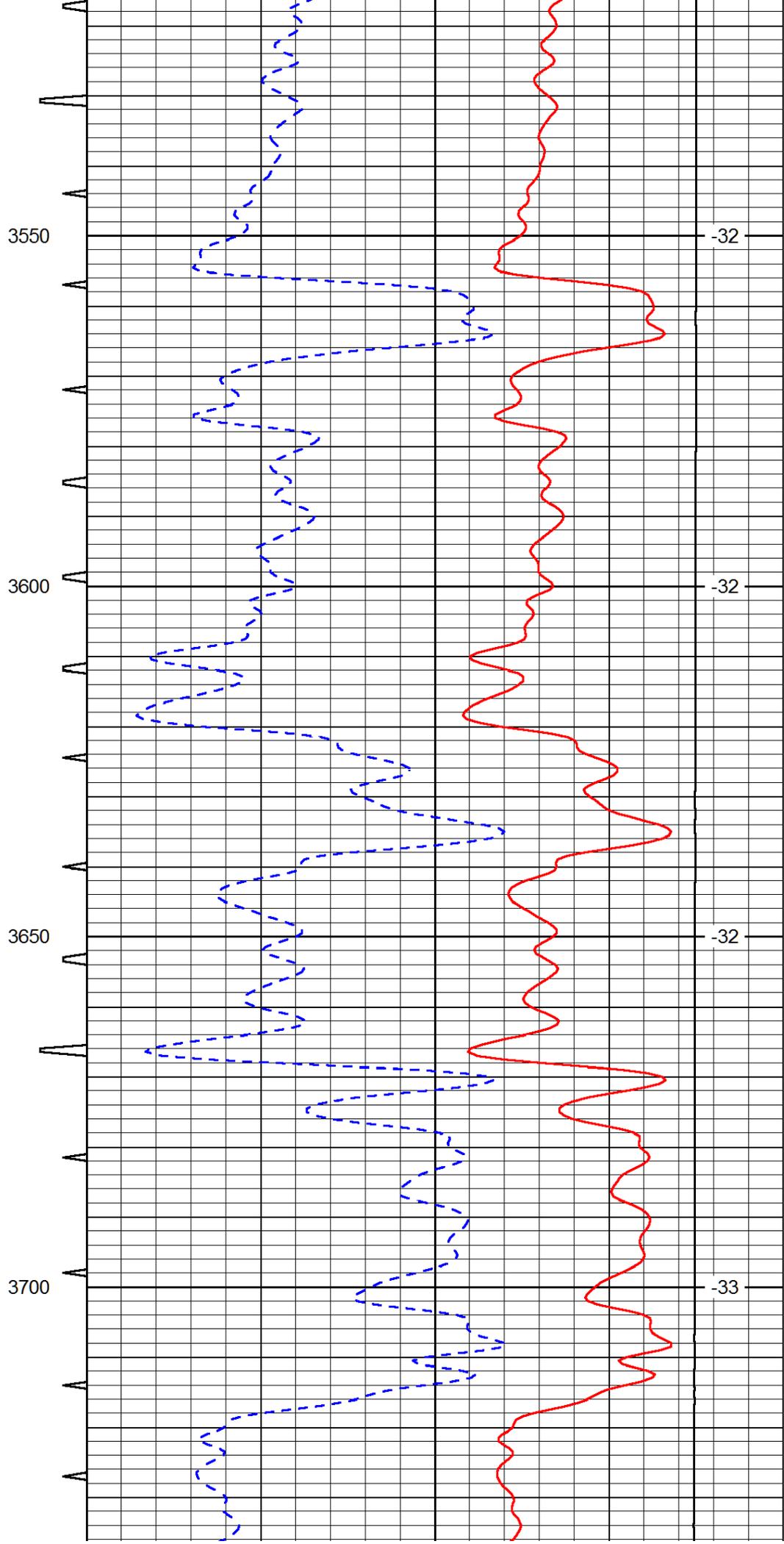
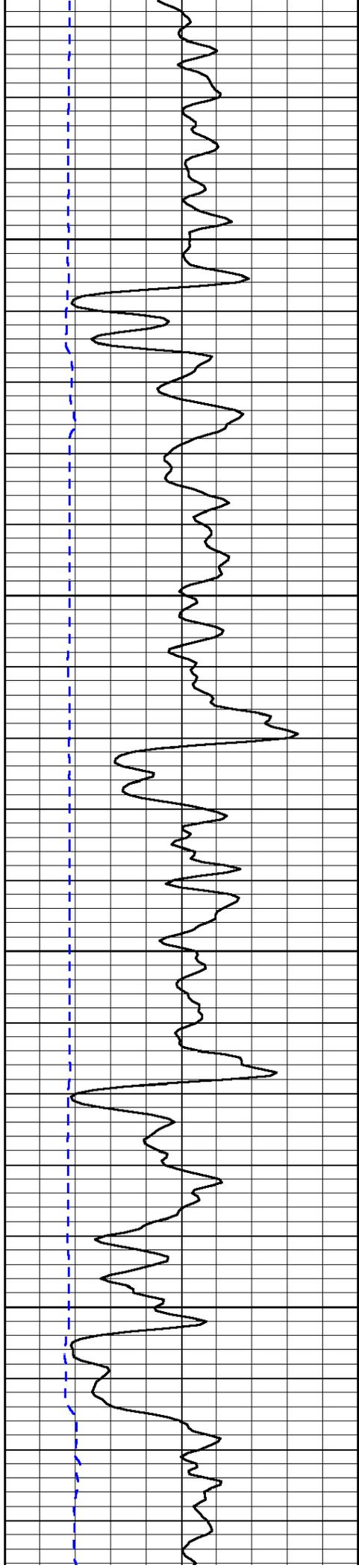


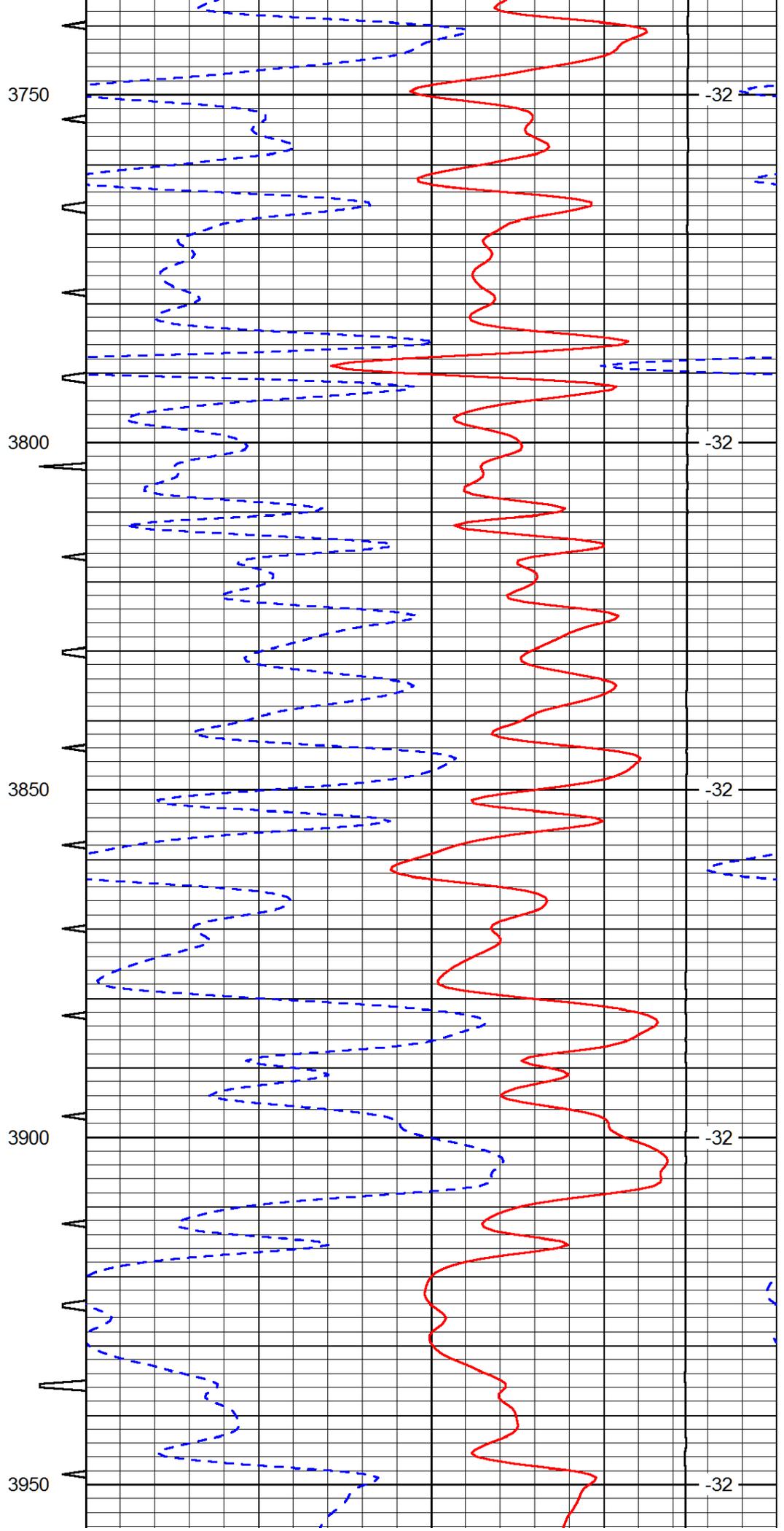
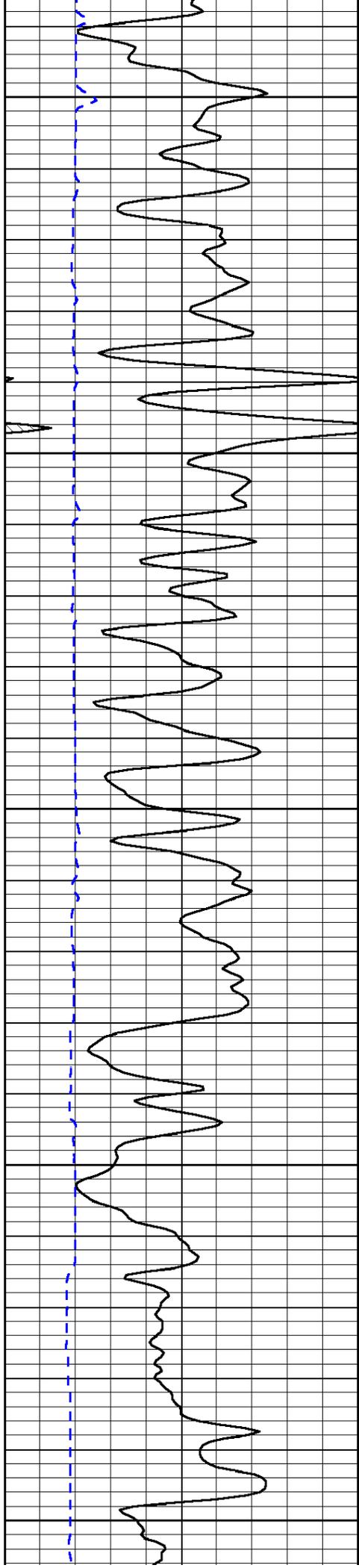


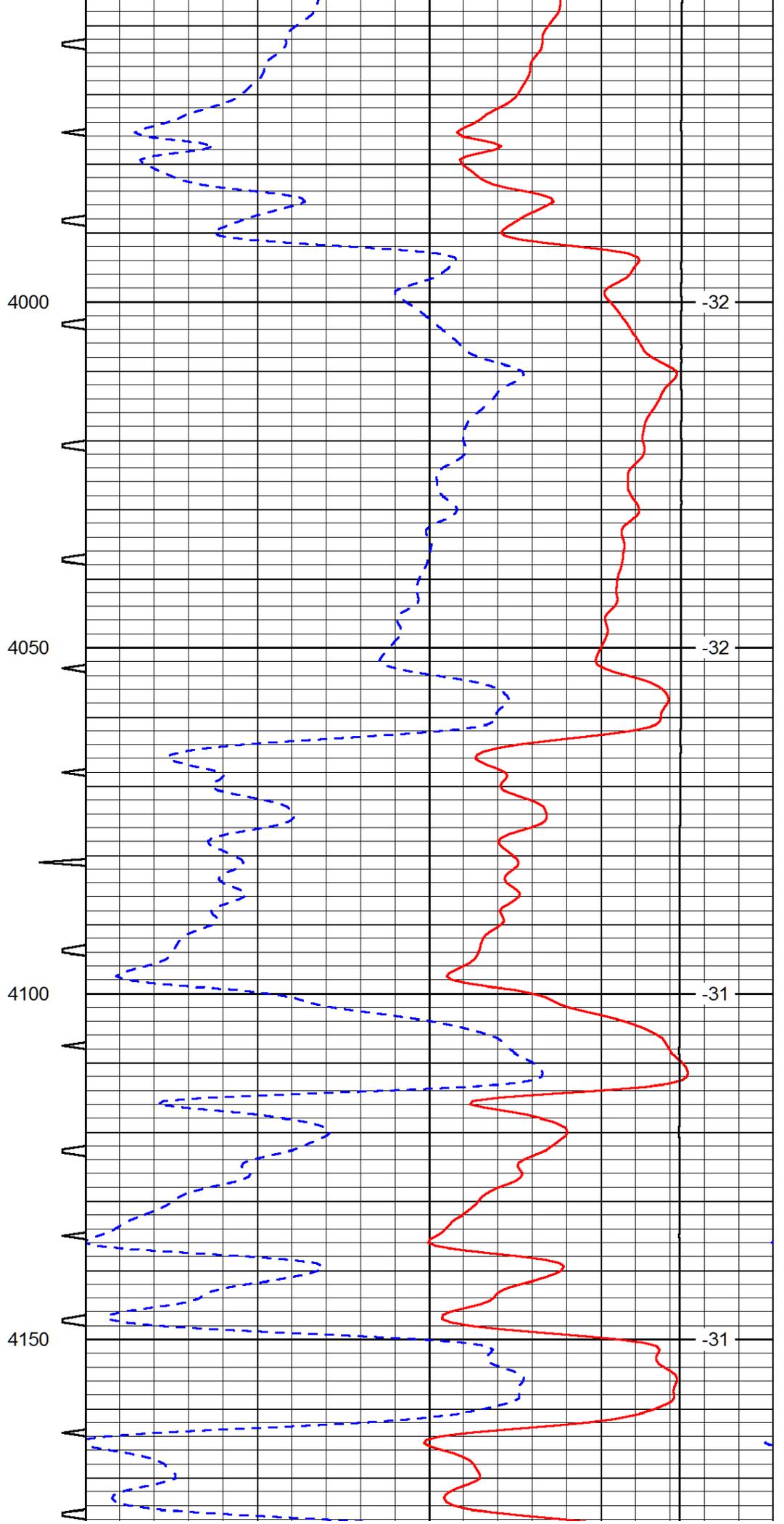
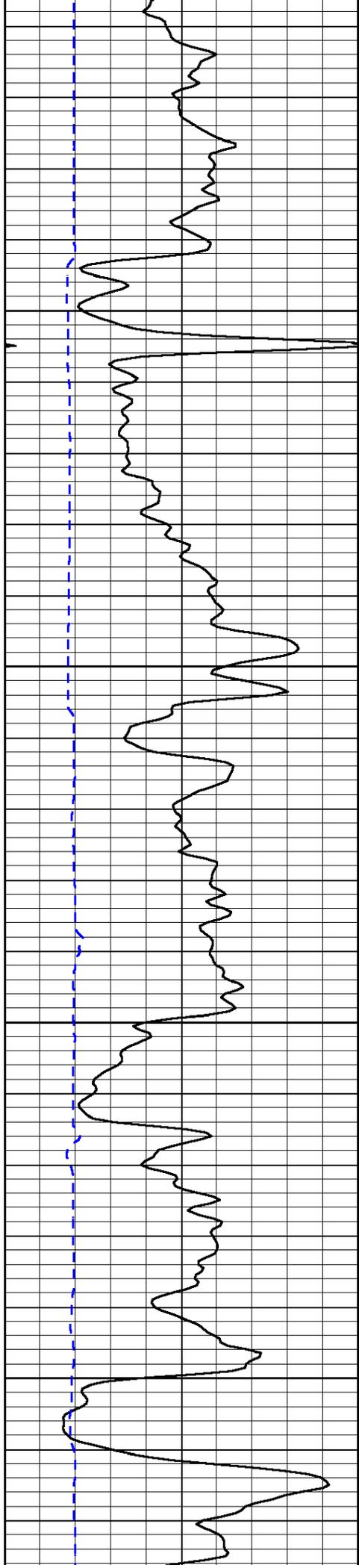


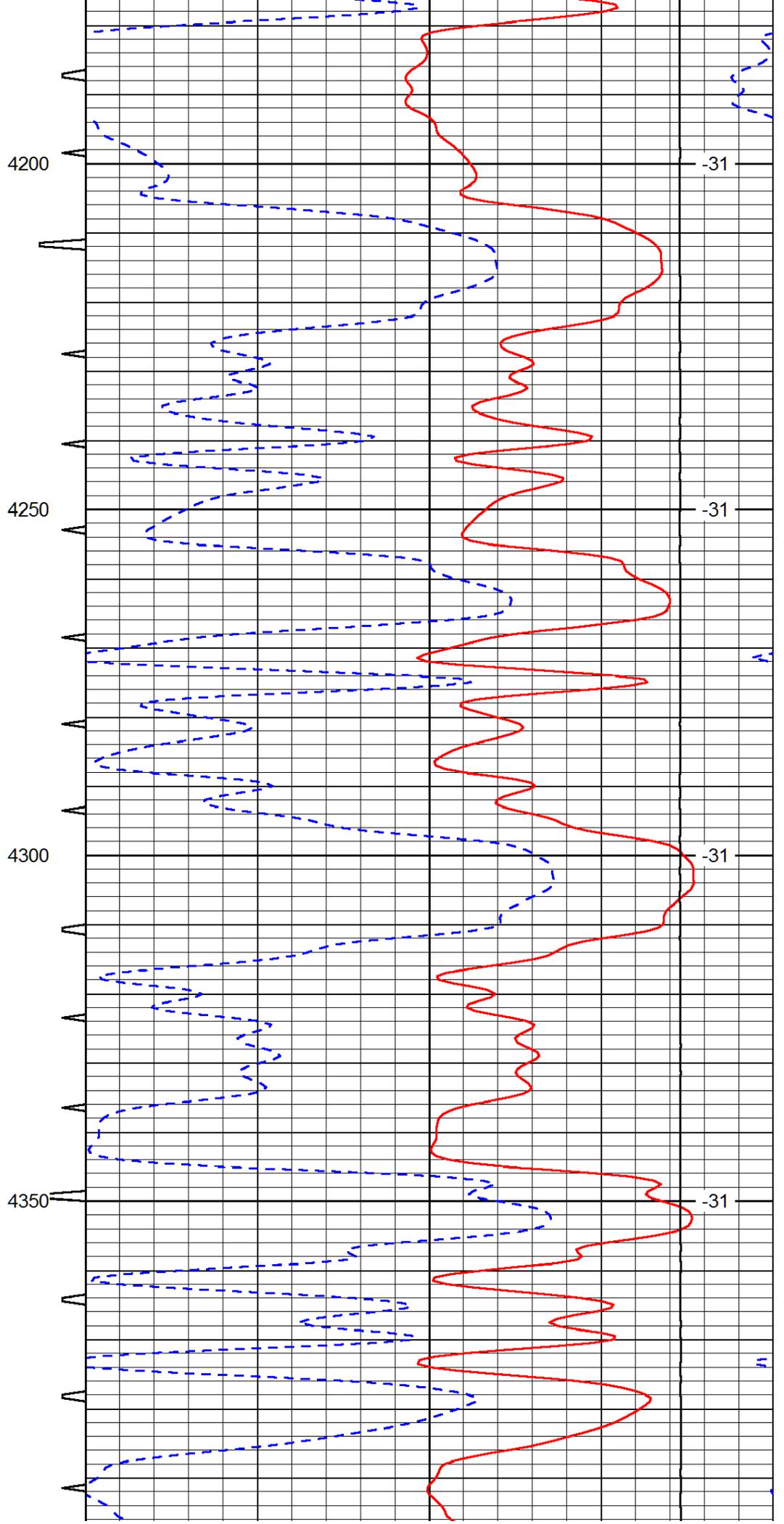
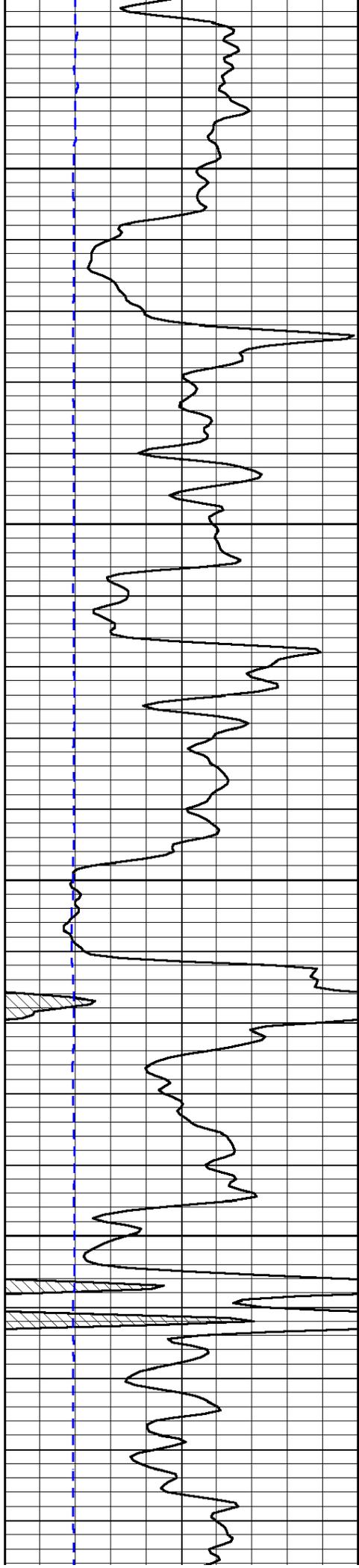


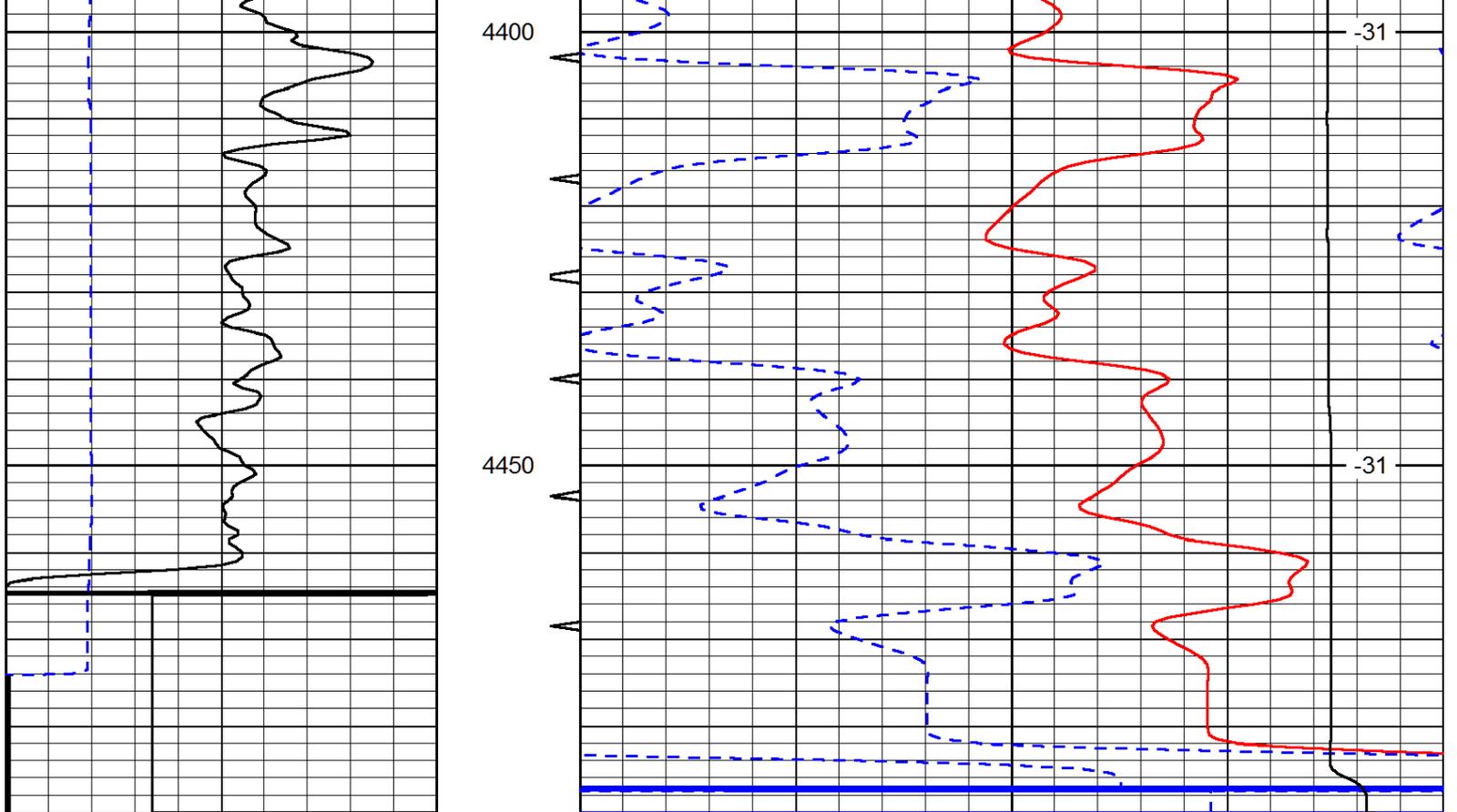












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