



Pioneer Energy Services

## Borehole Compensated Sonic Log

API No.	15-041-20138-00-00		
Company	Chisholm Partners II, LLC		
Well	Wolf # 1-21		
Field	Unknown		
County	Dickinson		
State	Kansas		
Location	1980' FSL & 660' FWL		
Sec: 21	Twp: 11 S	Rge: 1 E	Other Services CNL/CDL MEL/DIL
Permanent Datum	Ground Level	Elevation 1309	Elevation
Log Measured From	Kelly Bushing	10 Ft. Above Perm. Datum	K.B. 1319
Drilling Measured From	Kelly Bushing		D.F. G.L. 1309

Date	02-16-2013		
Run Number	Two		
Type Log	BHC Sonic		
Depth Driller	3390		
Depth Logger	3391		
Bottom Logged Interval	3380		
Top Logged Interval	200		
Type Fluid In Hole	Chemical		
Salinity, PPM CL	500		
Density	9.3		
Level	Full		
Max. Rec. Temp. F	112		
Operating Rig Time	5 Hours		
Equipment -- Location	91 Hays		
Recorded By	D. Schmidt		
Witnessed By	Justin Carter		

Borehole Record				Casing Record			
Run No.	Bit	From	To	Size	Wgt.	From	To
One	12.25	00	224	8.625	23#	00	224
Two	7.875	224	TD				

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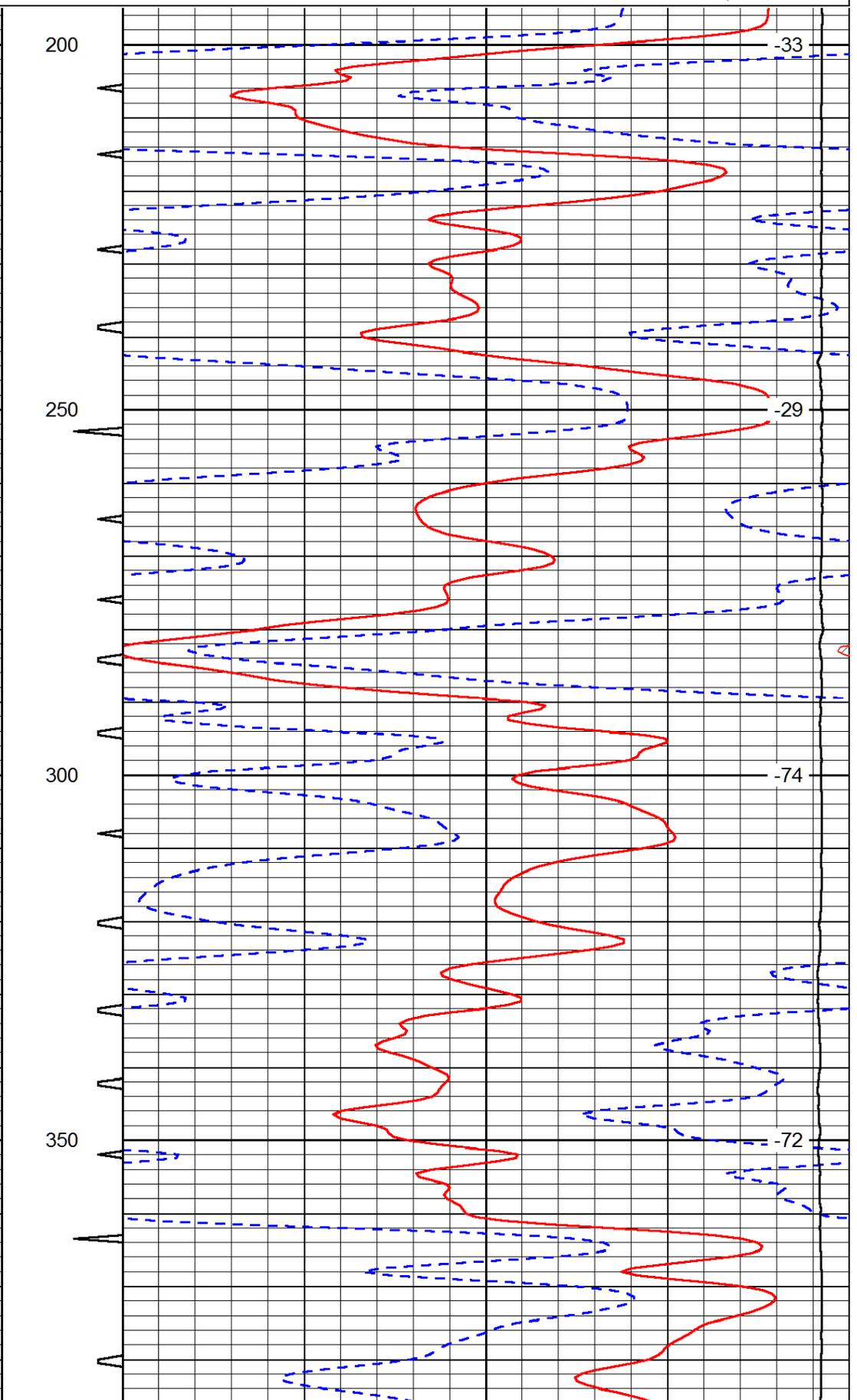
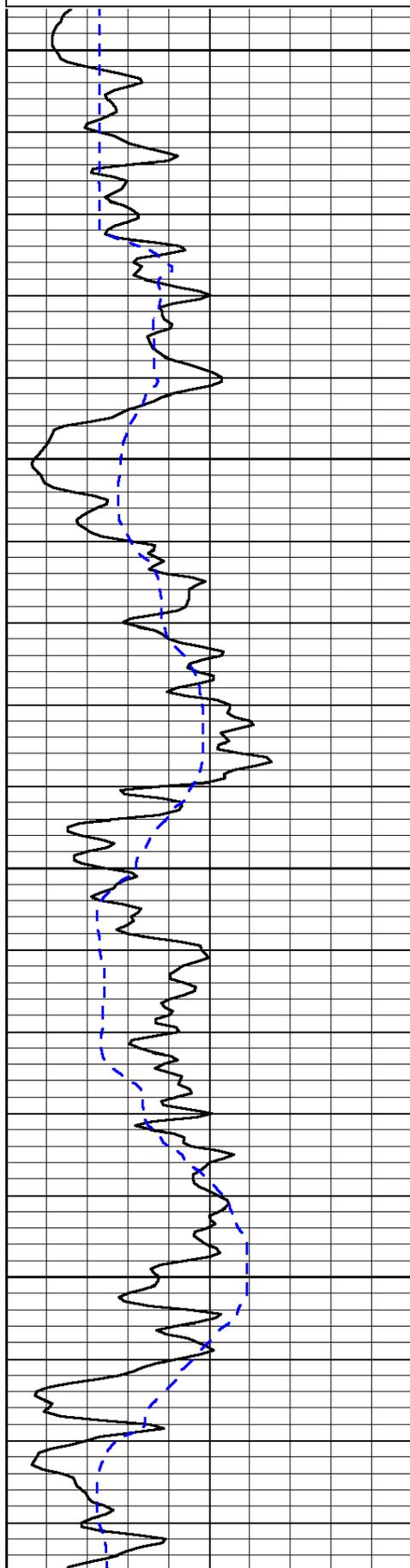
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

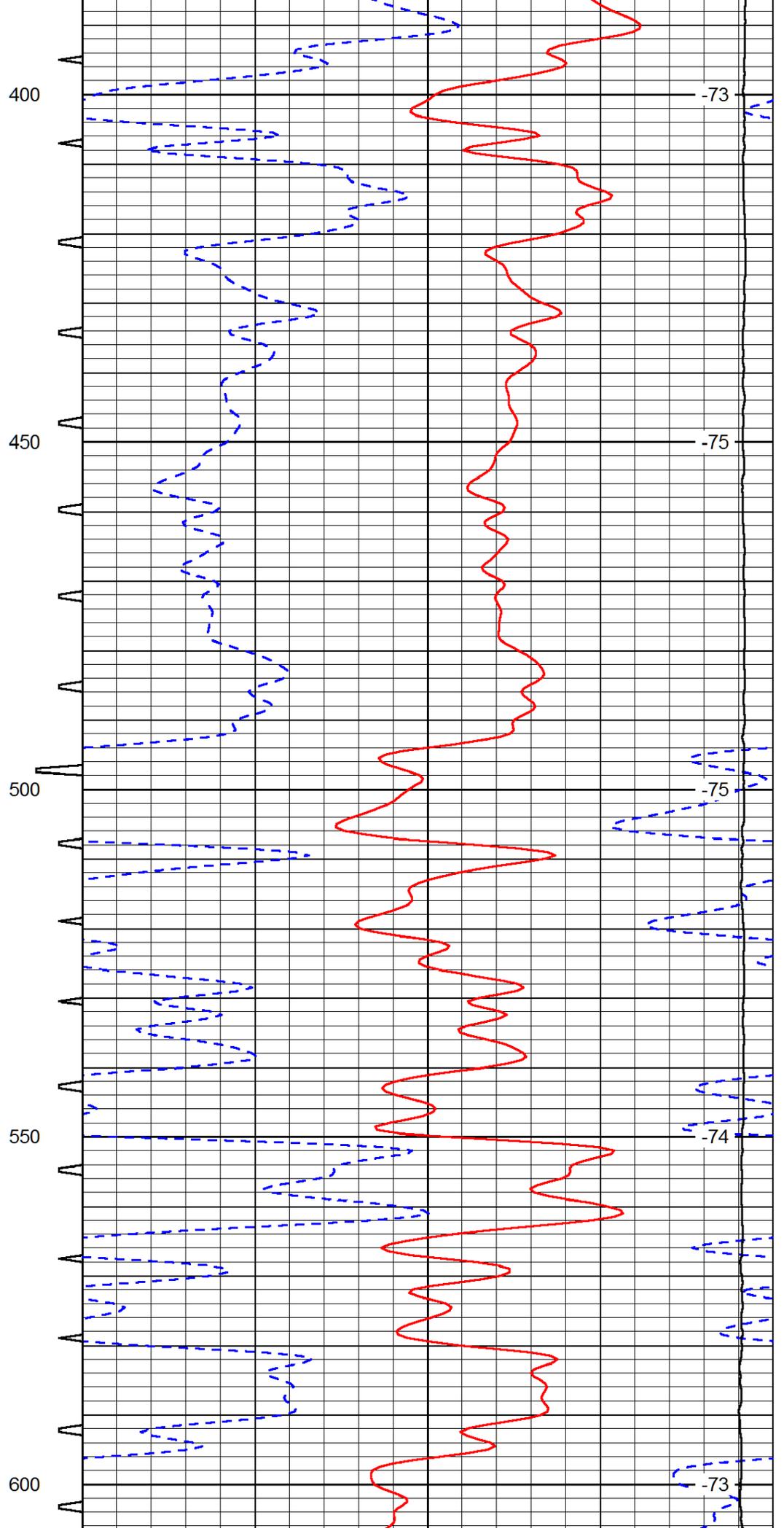
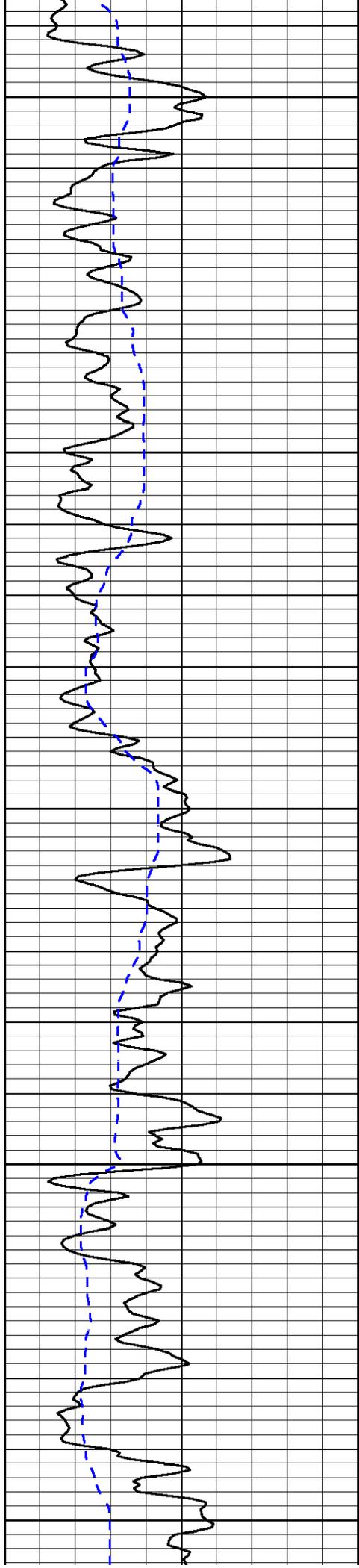
### Comments

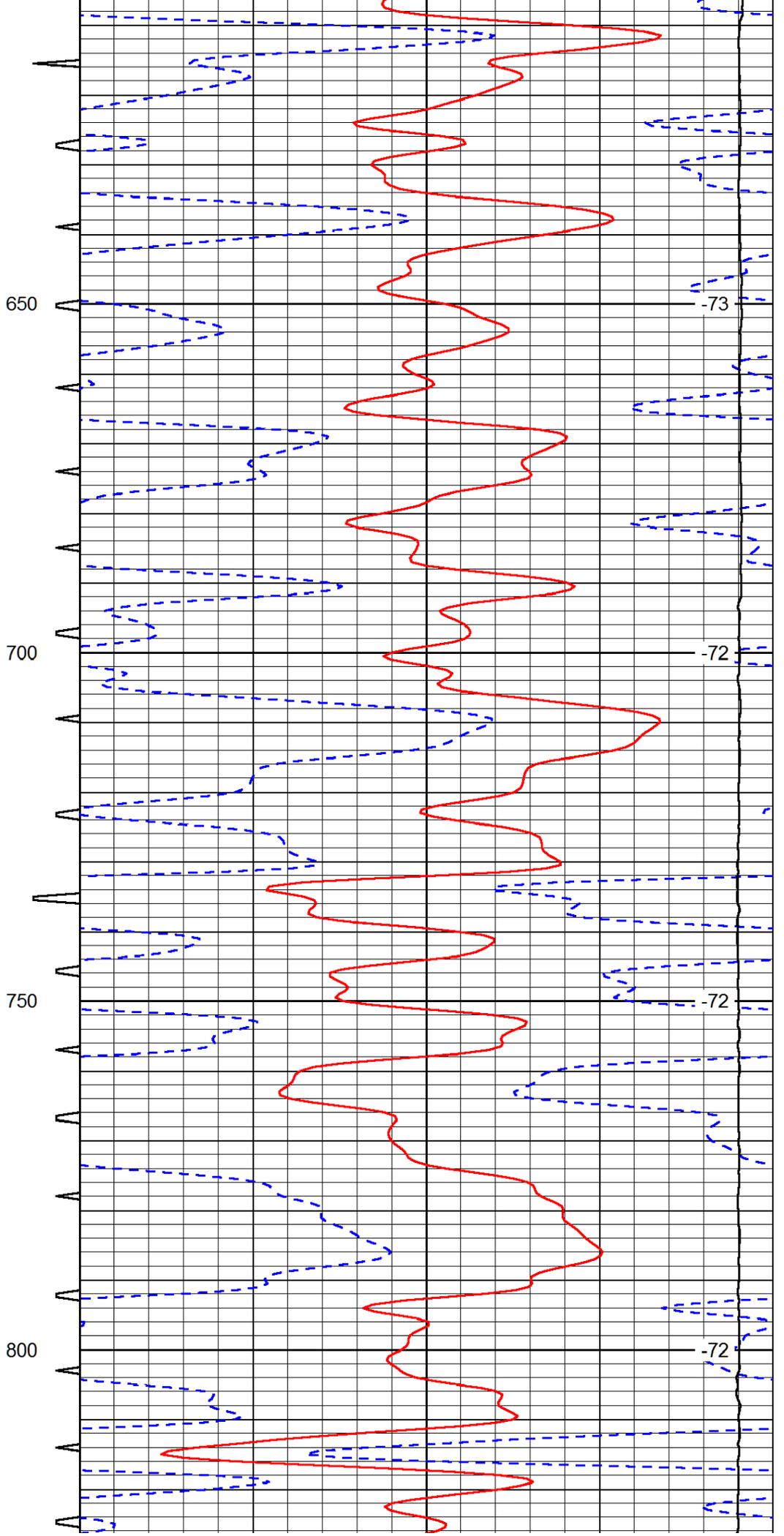
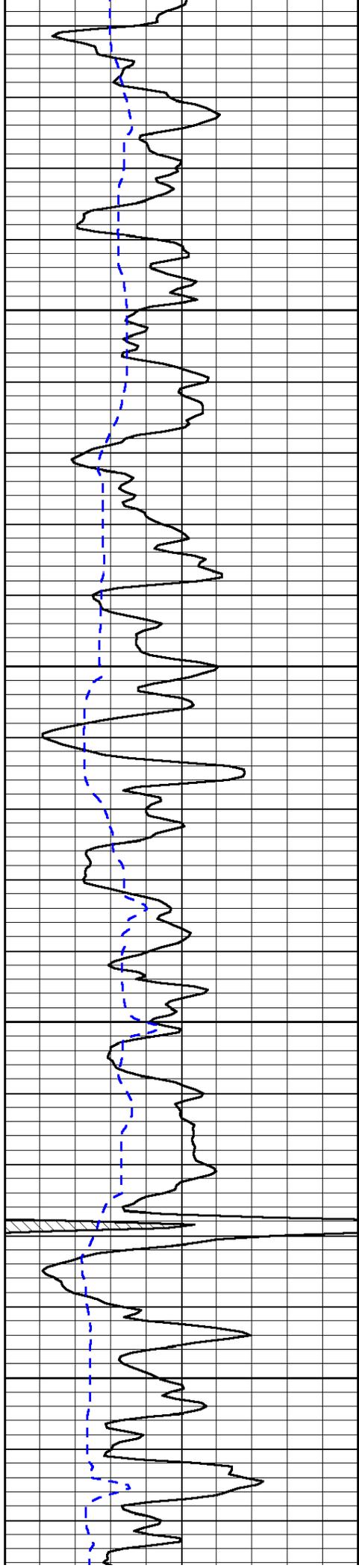
Thank you for using Log-Tech, Inc.  
 (785) 625-3858  
 Solomon,  
 7 North to Hwy 18, 2 East to Camp Rd,  
 3 1/4 North,  
 East into

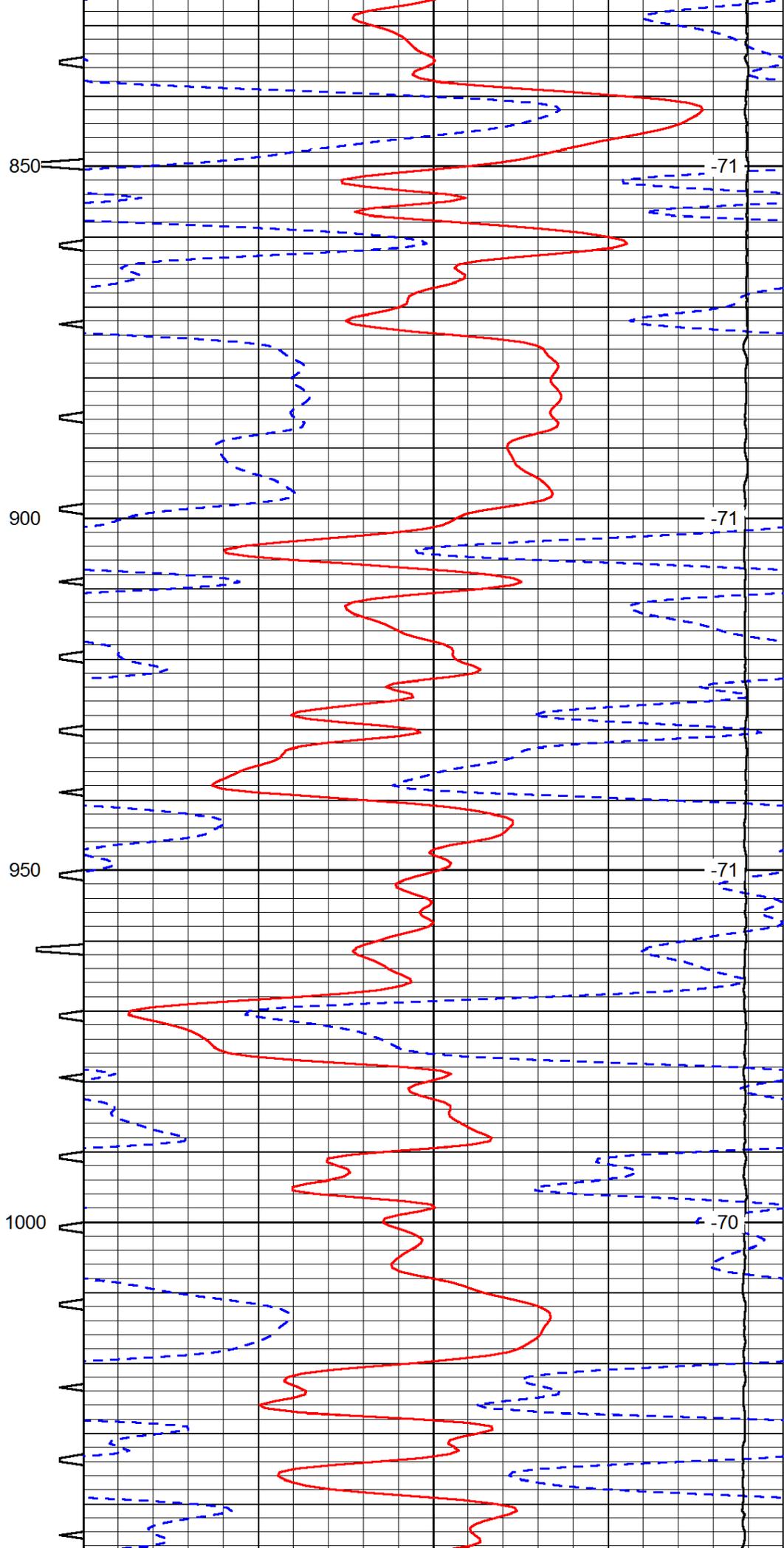
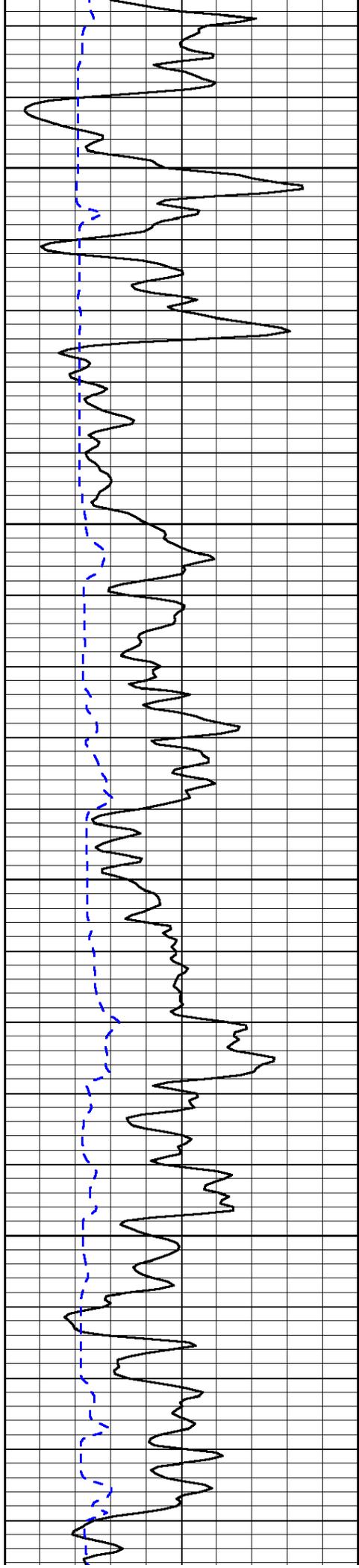
Database File: chisholm021613hd.db  
 Dataset Pathname: dil/chstack  
 Presentation Format: sonic  
 Dataset Creation: Sat Feb 16 14:20:43 2013  
 Charted by: Depth in Feet scaled 1:240

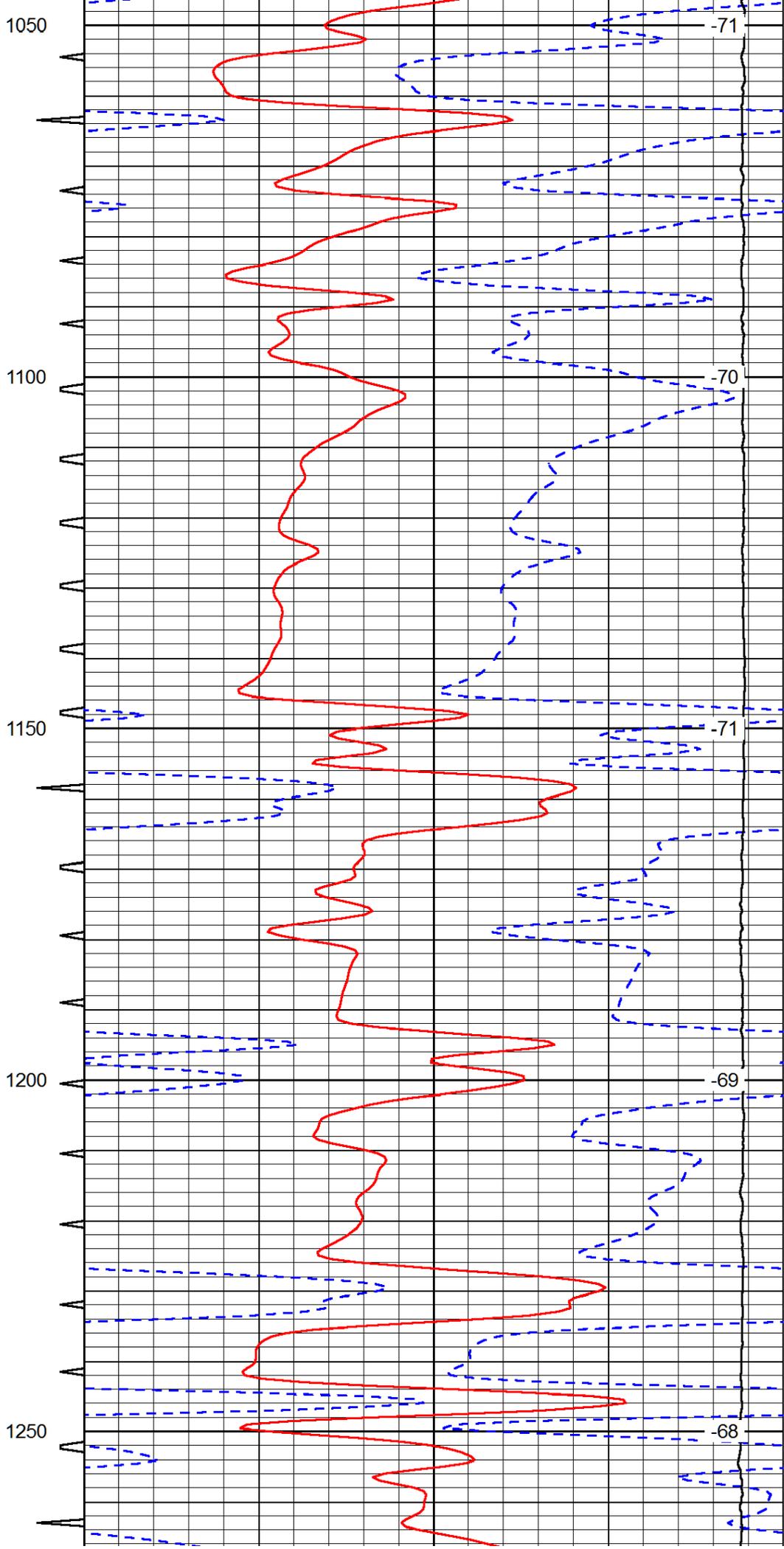
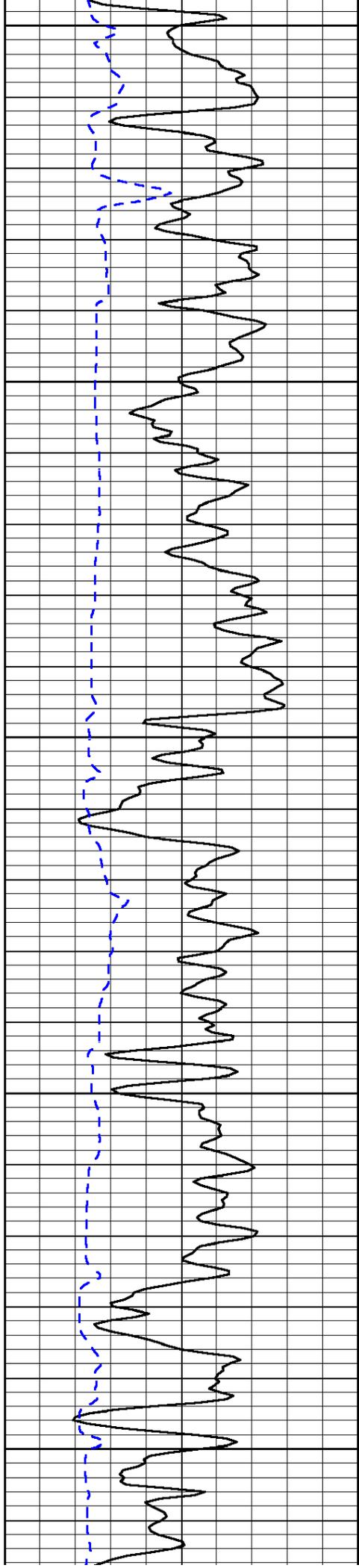
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150	Gamma Ray (GAPI)	300	5 (msec) 0	30	Sonic Porosity (pu)	-10
6	dCAL (in)	16		15000	LTEN (lb) (lb)	0
						LSPD (ft/min)

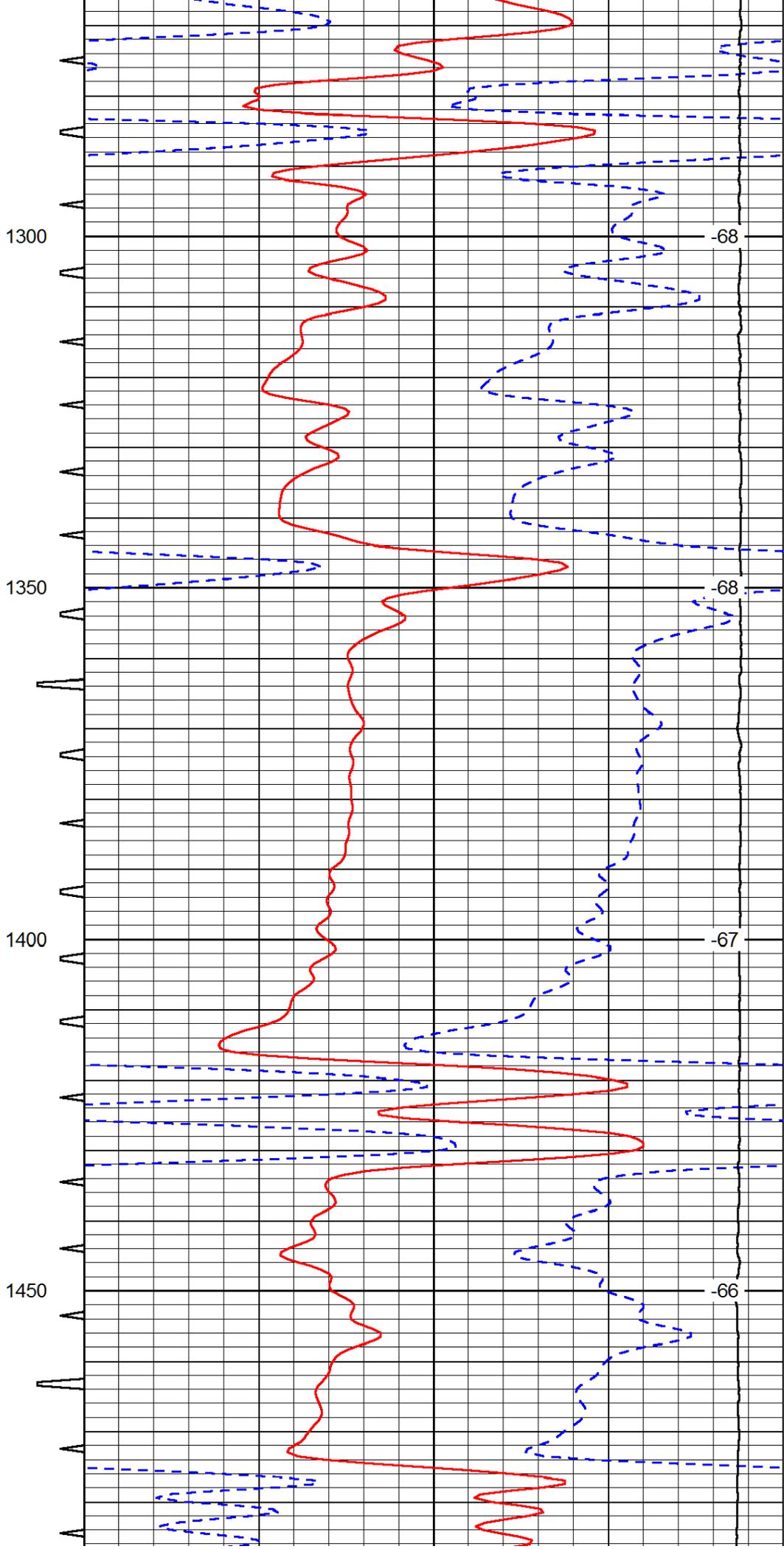
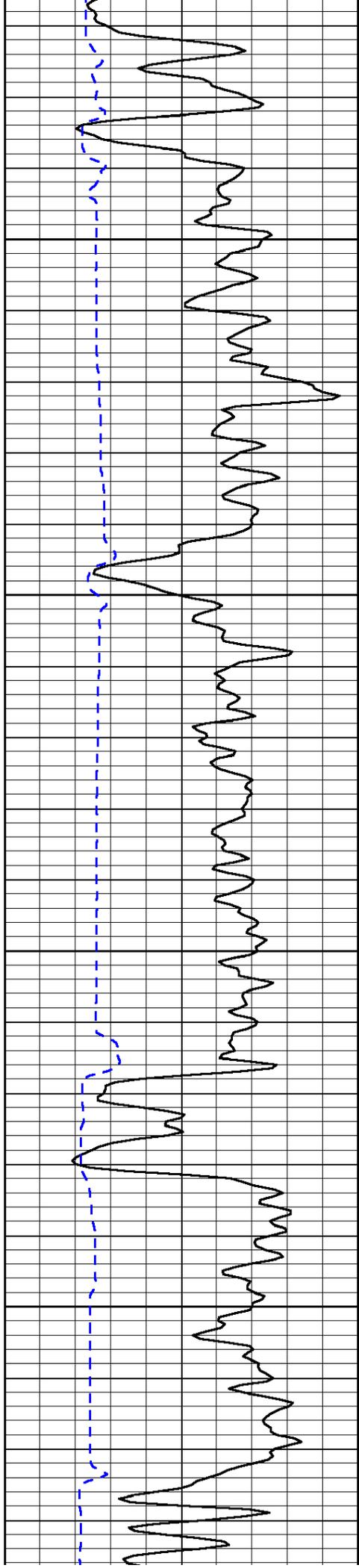


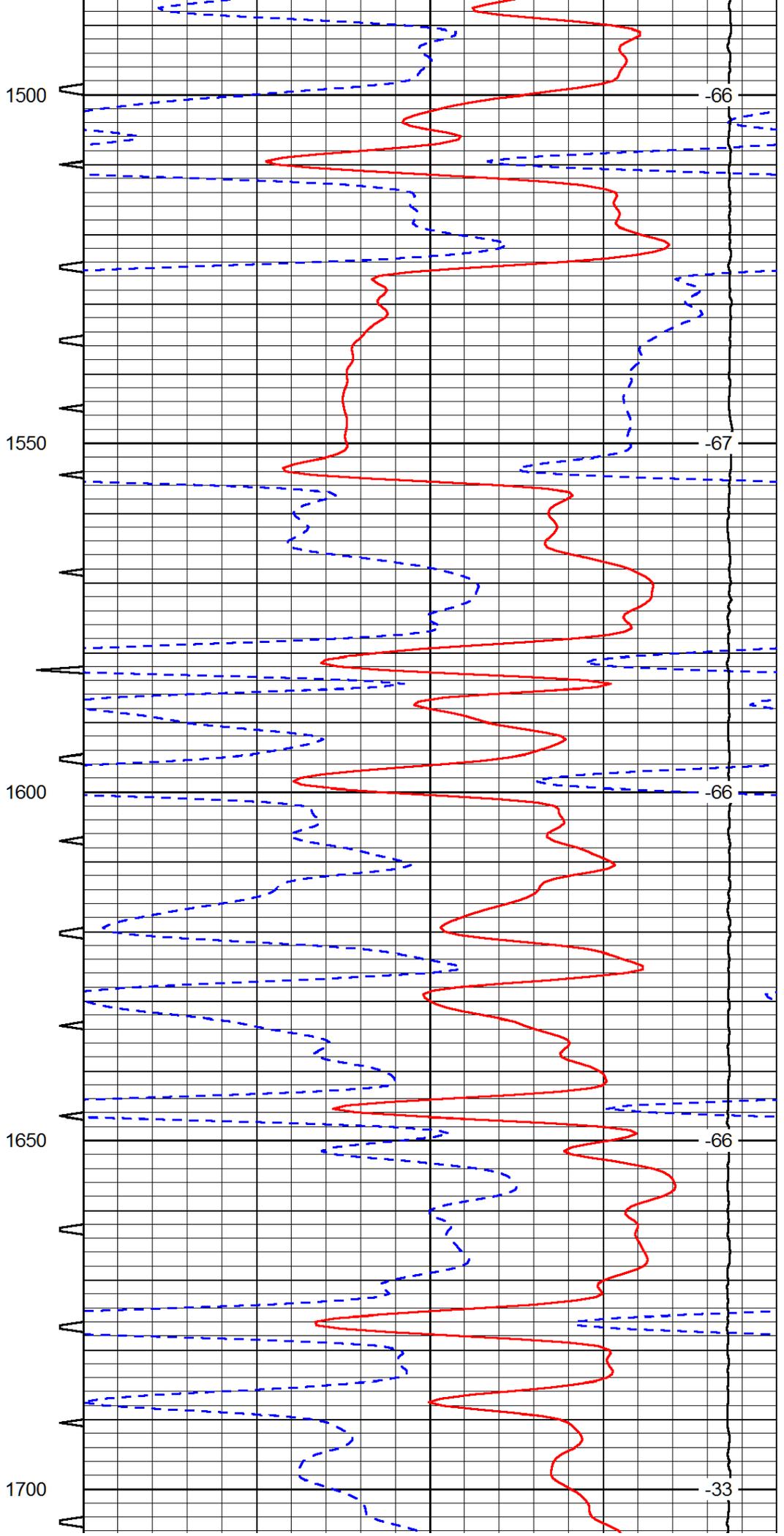
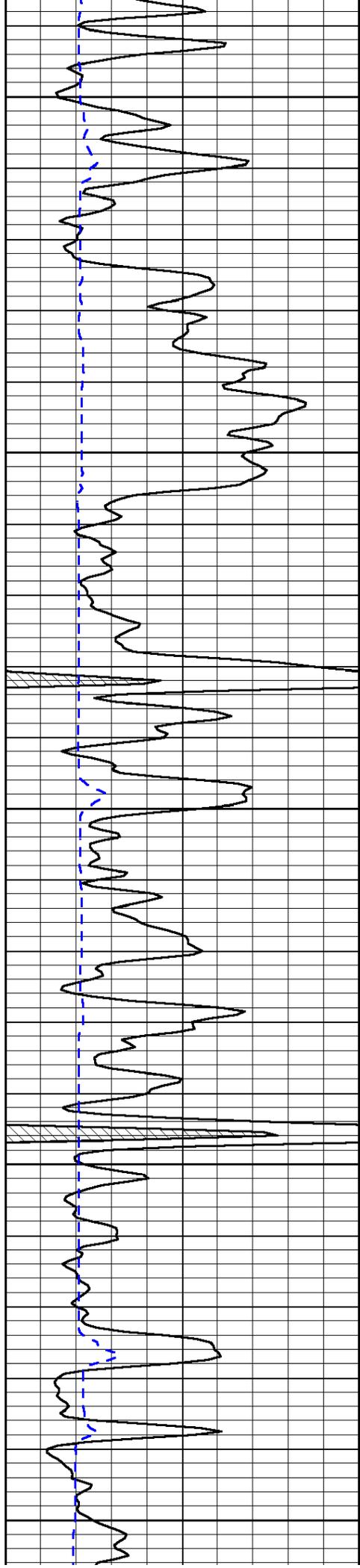


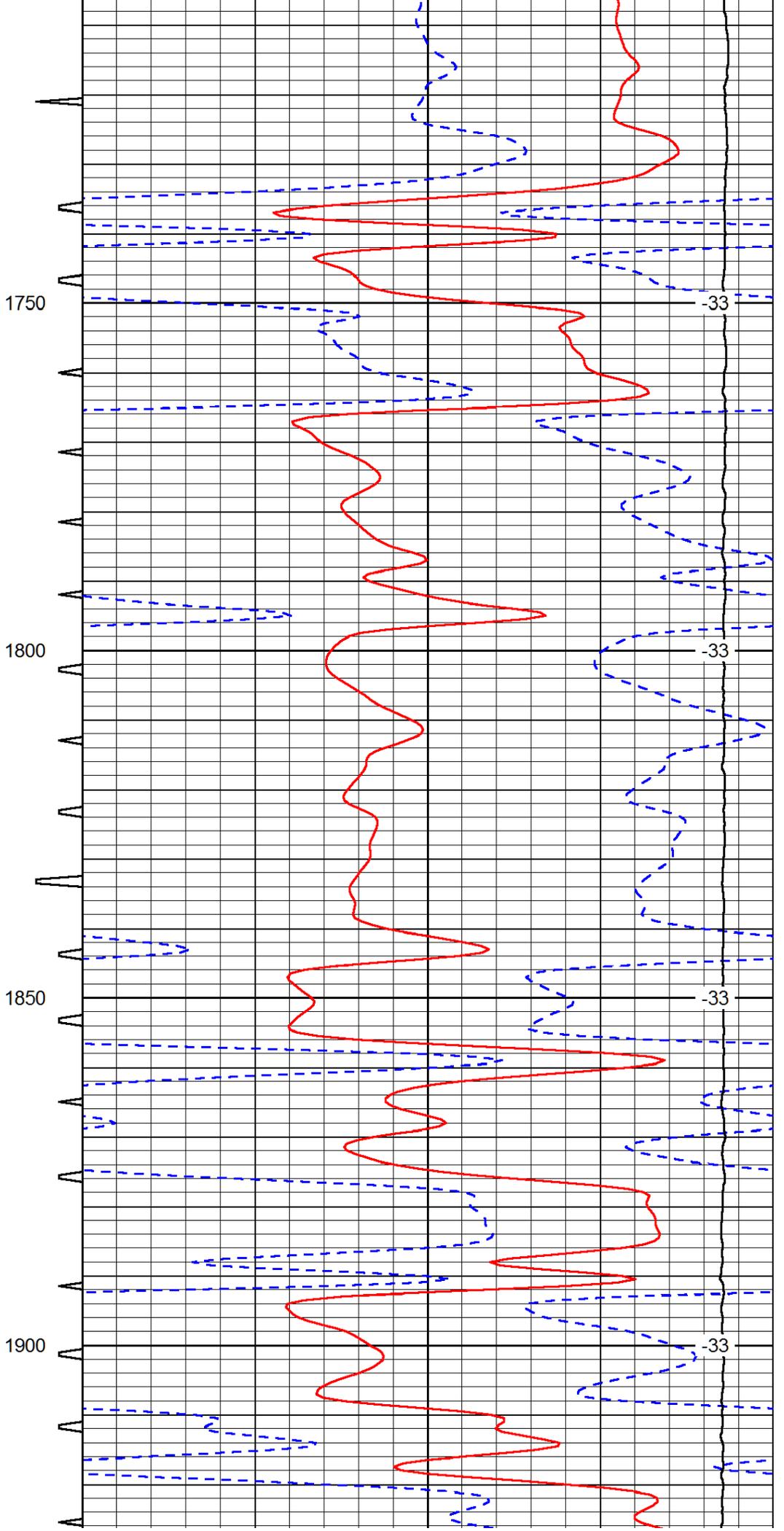
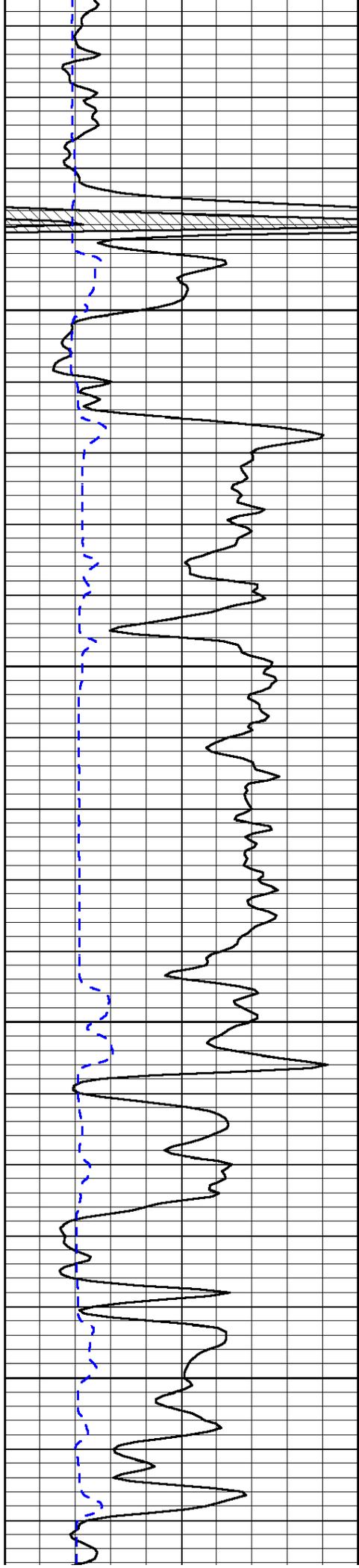


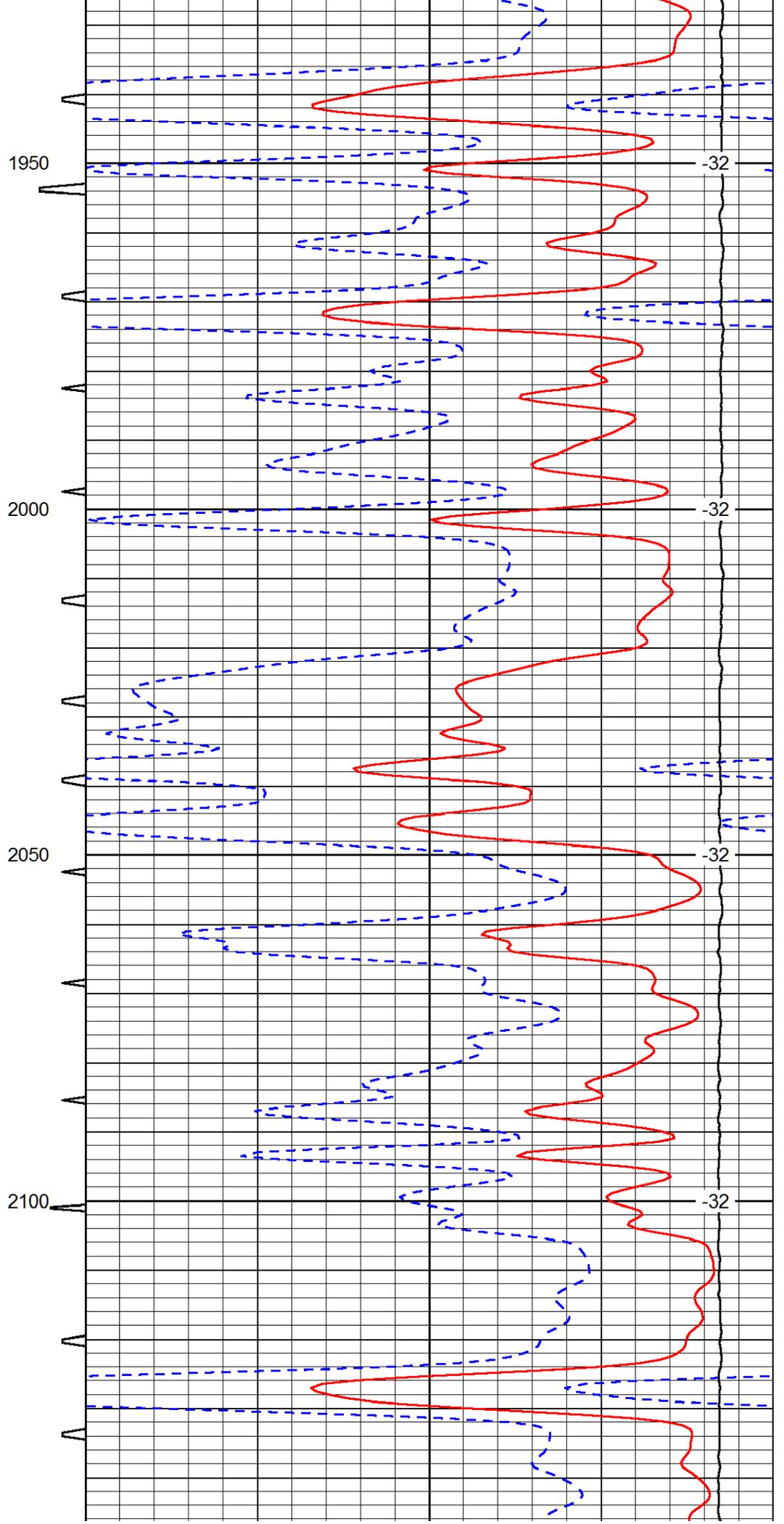
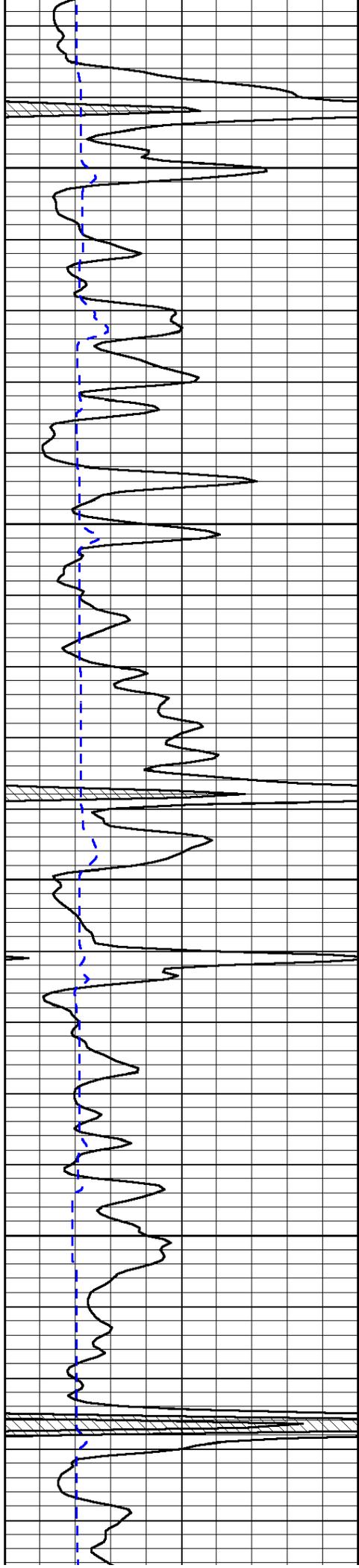


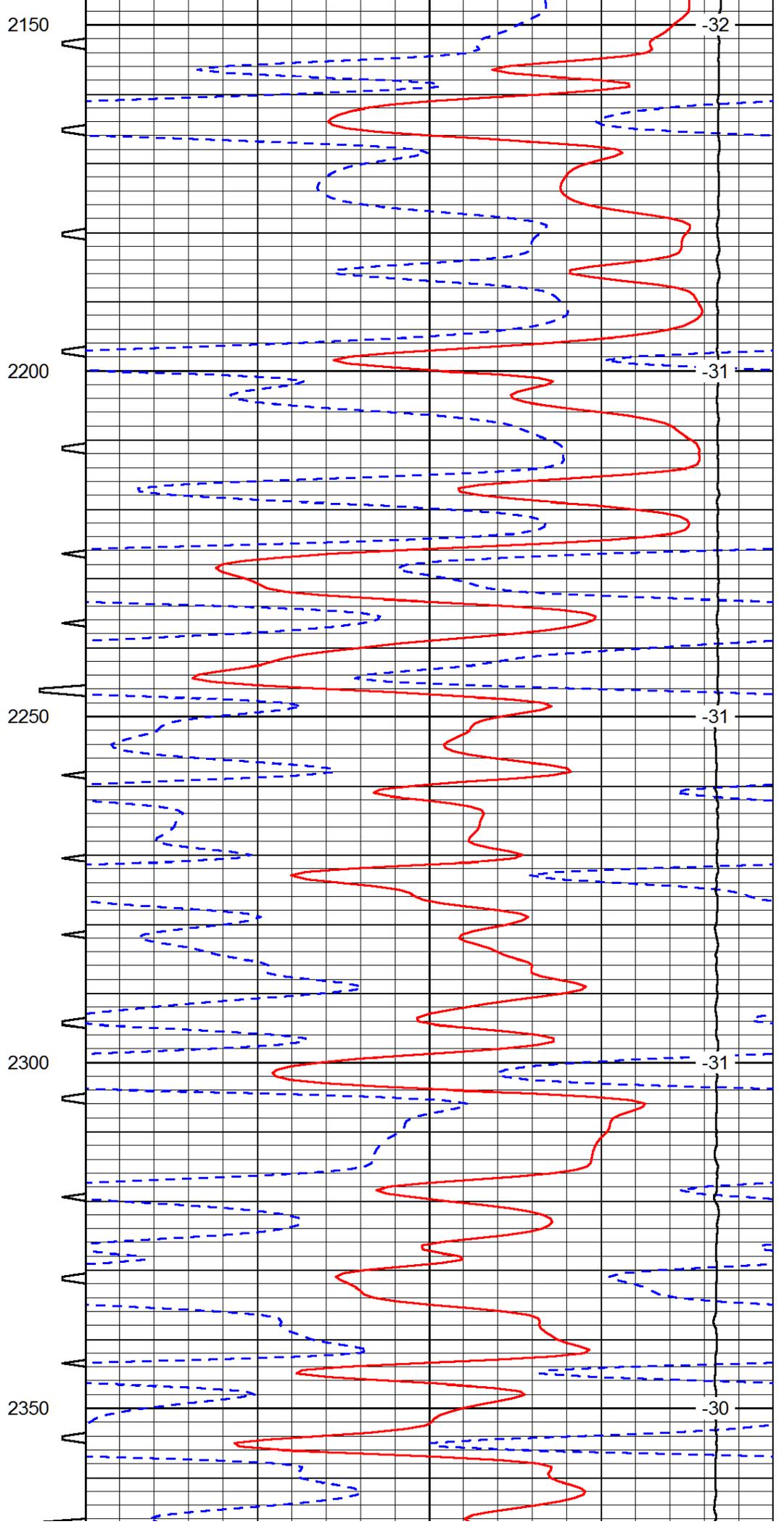
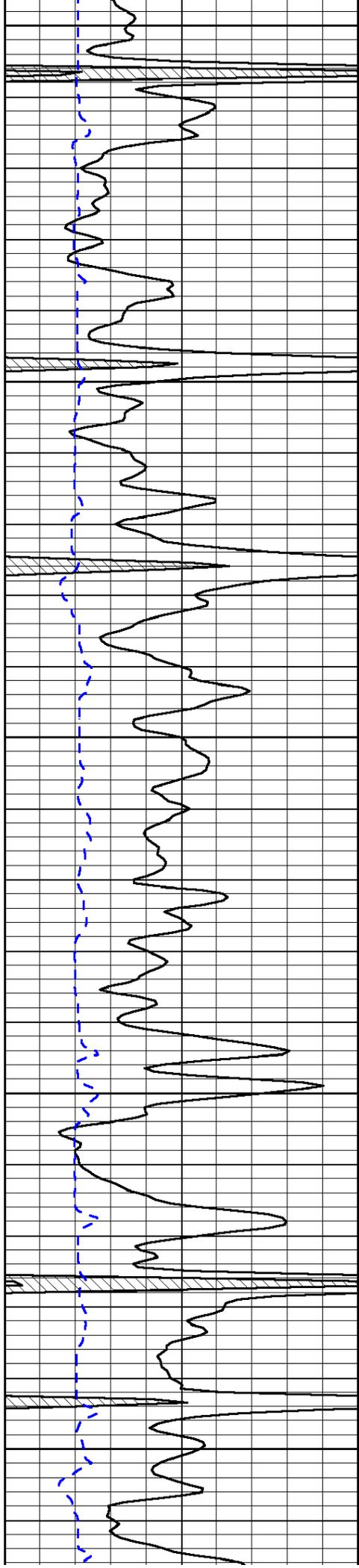


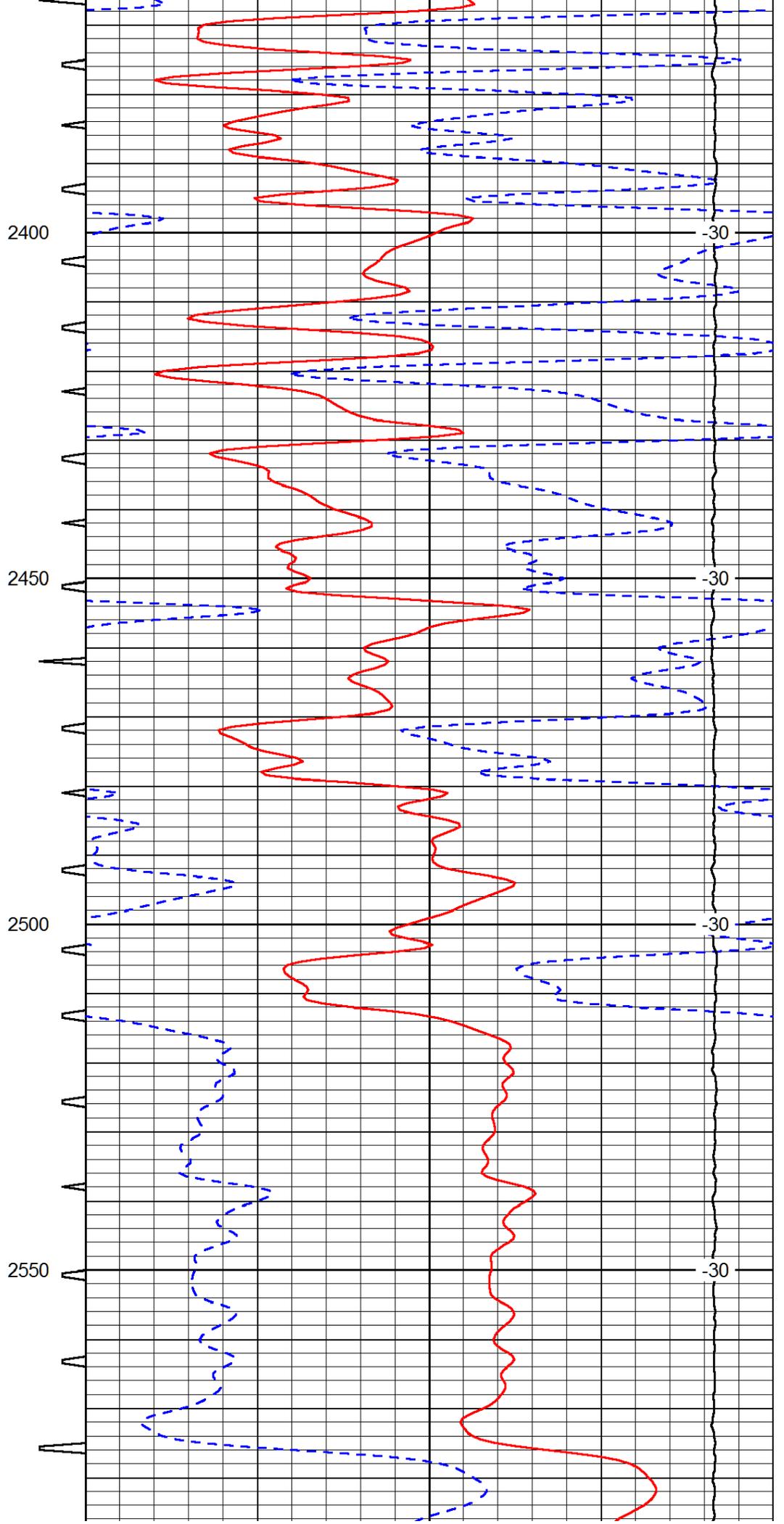
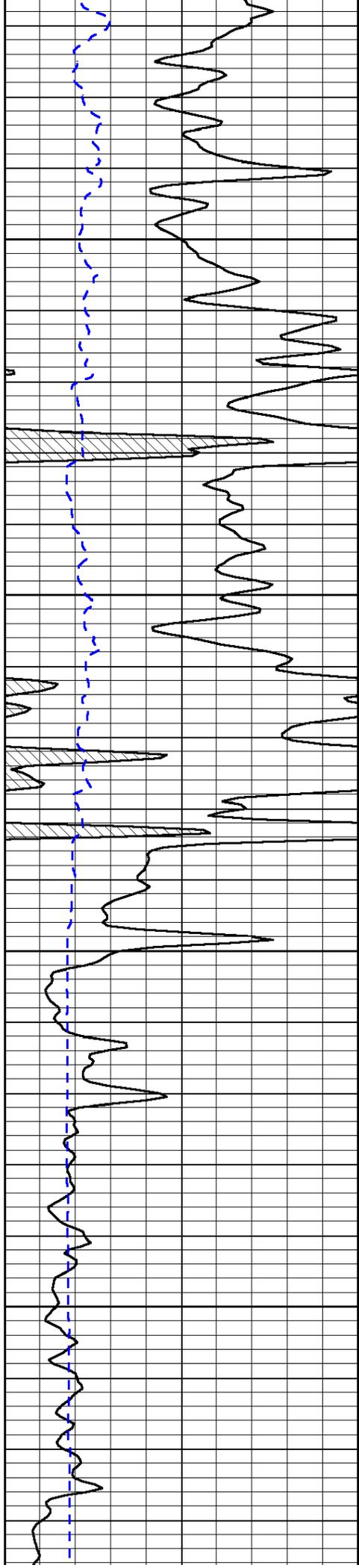


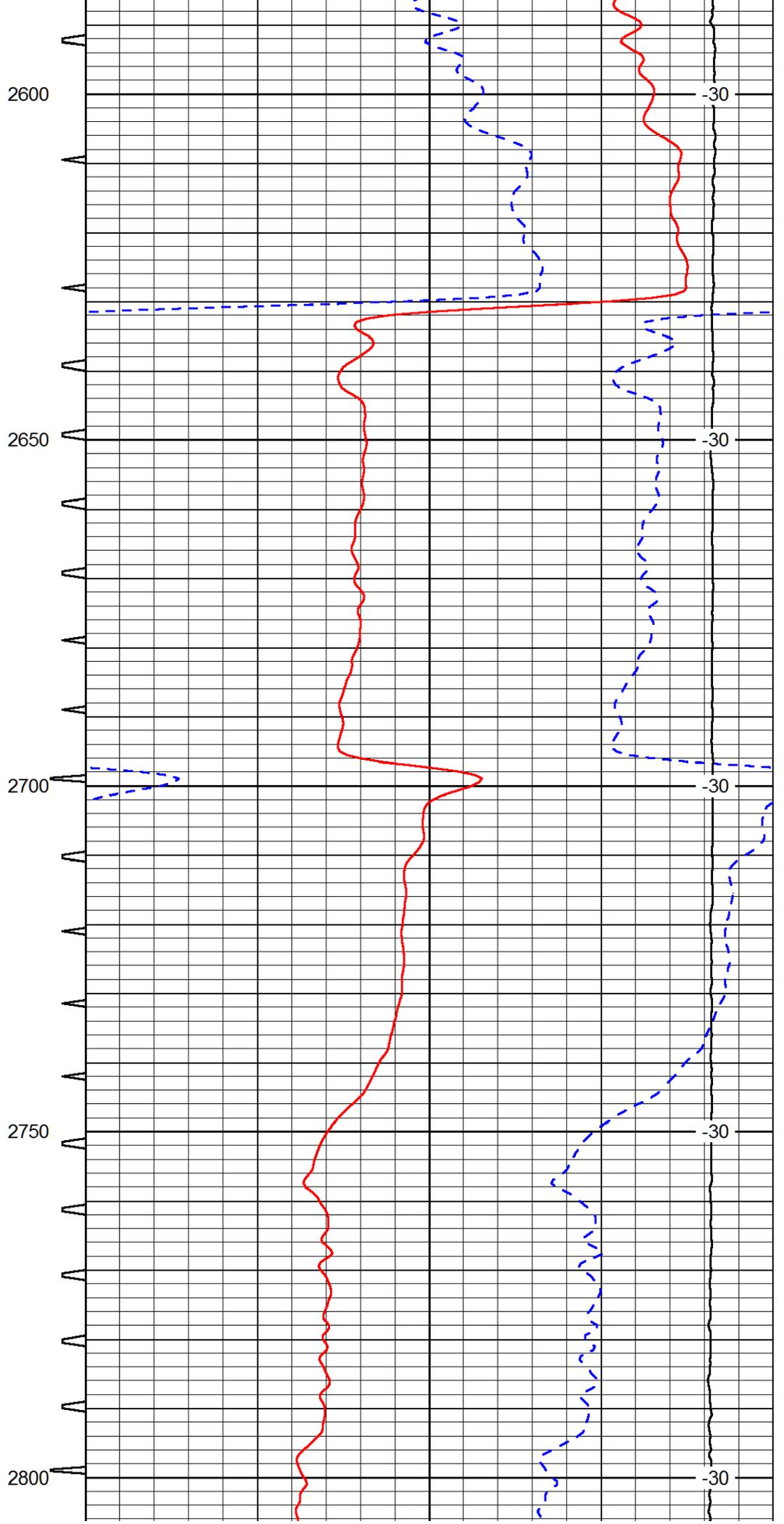
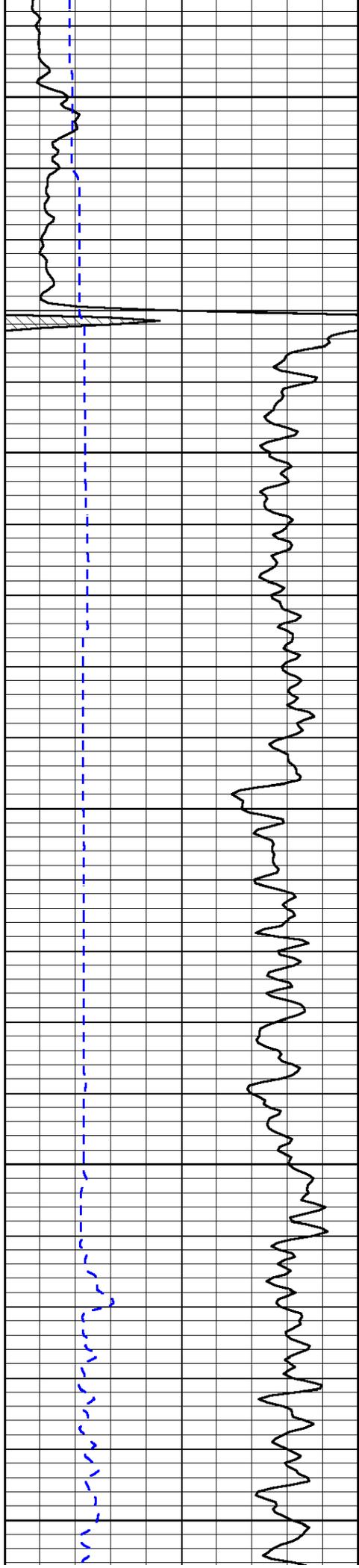


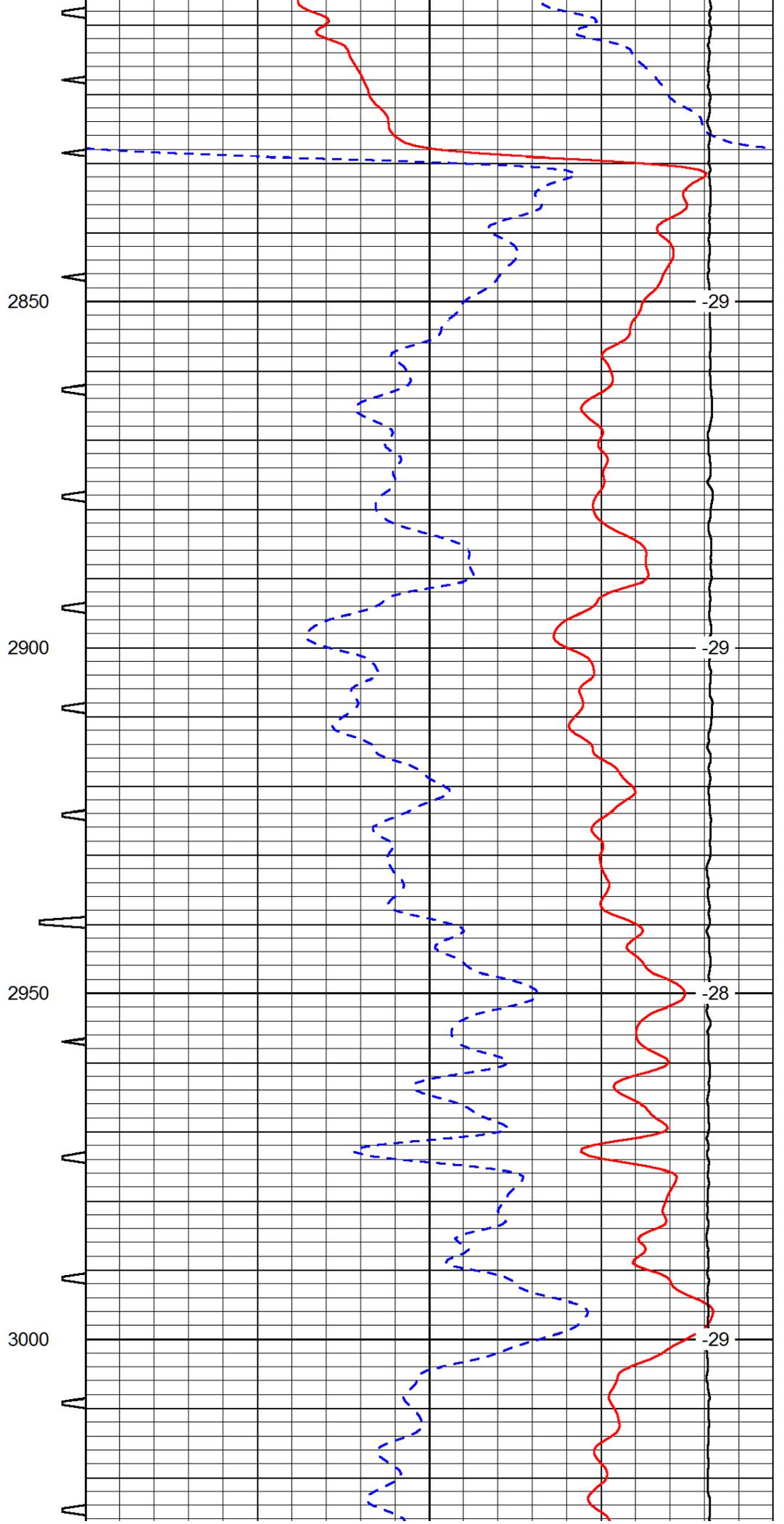
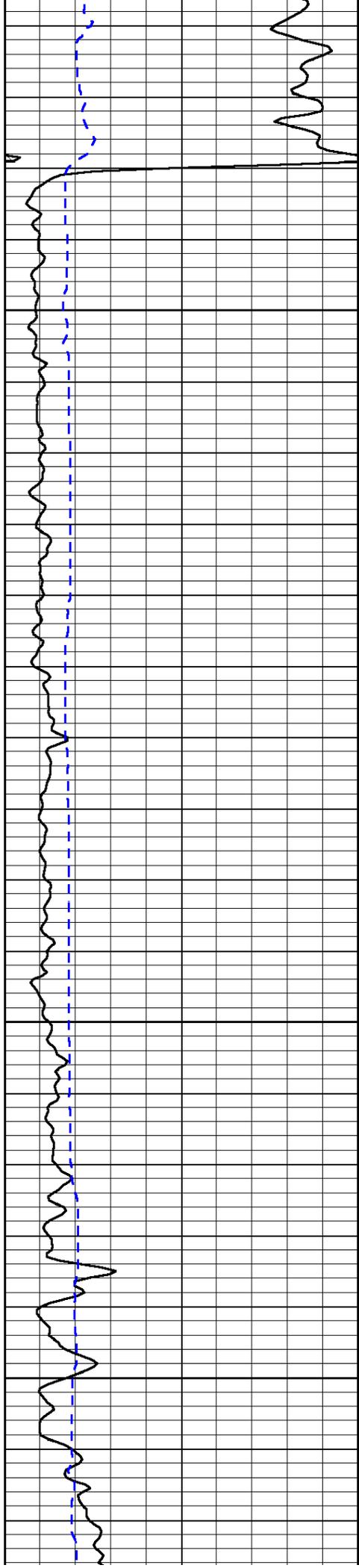


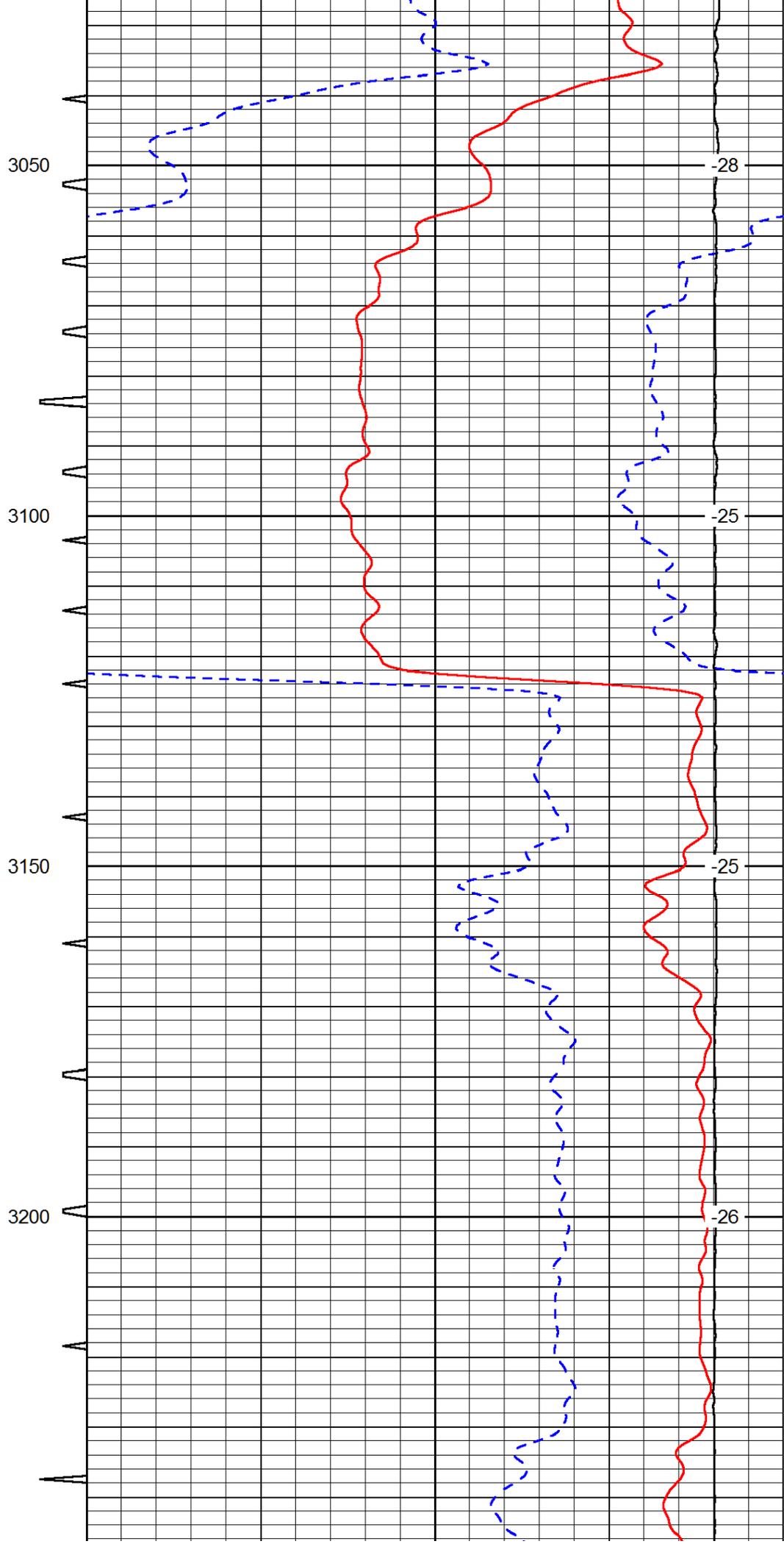
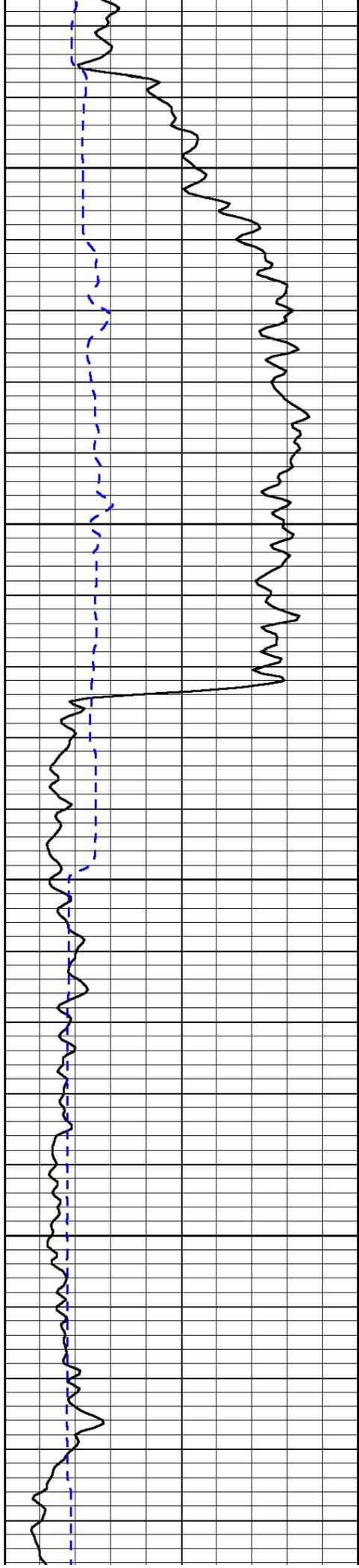


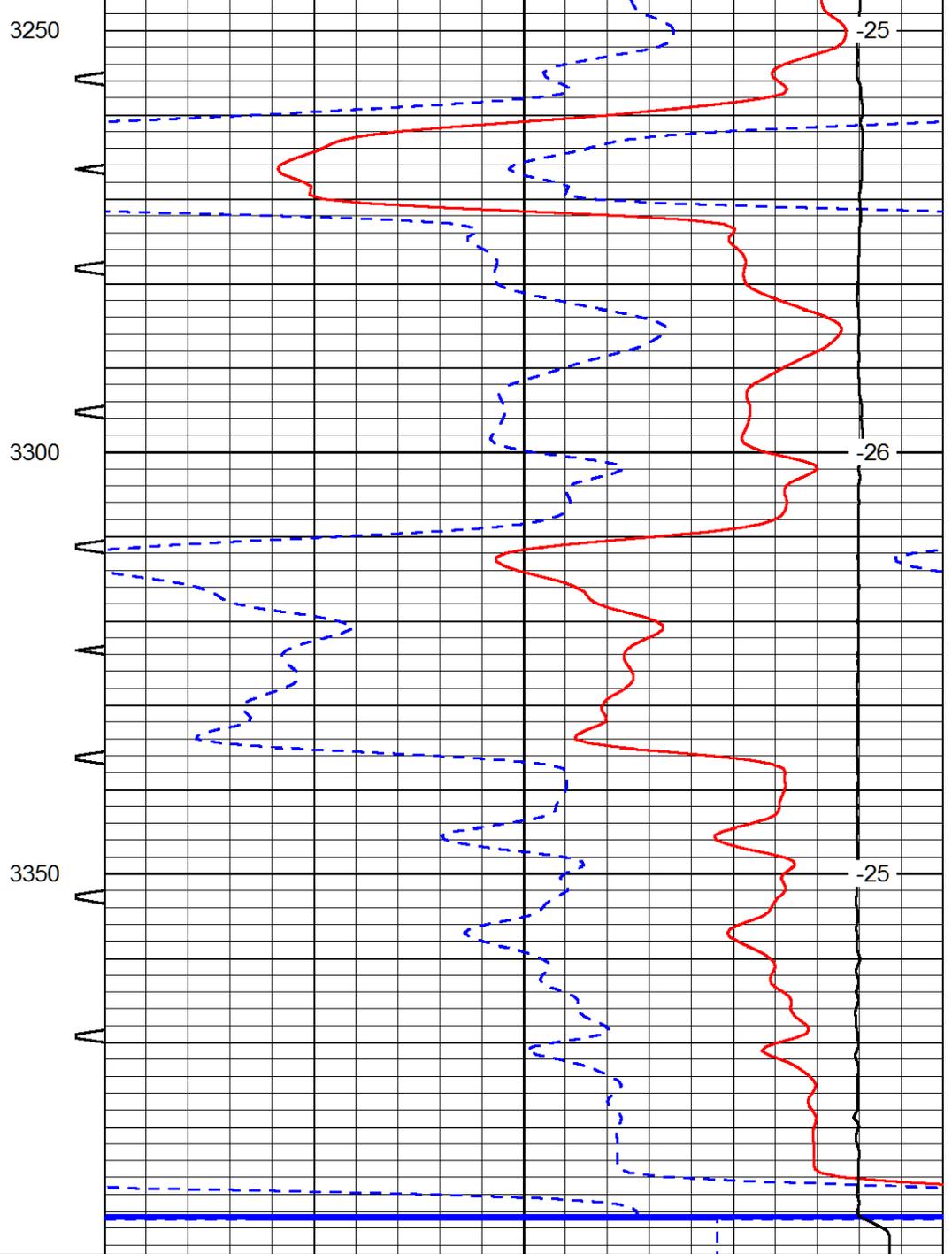
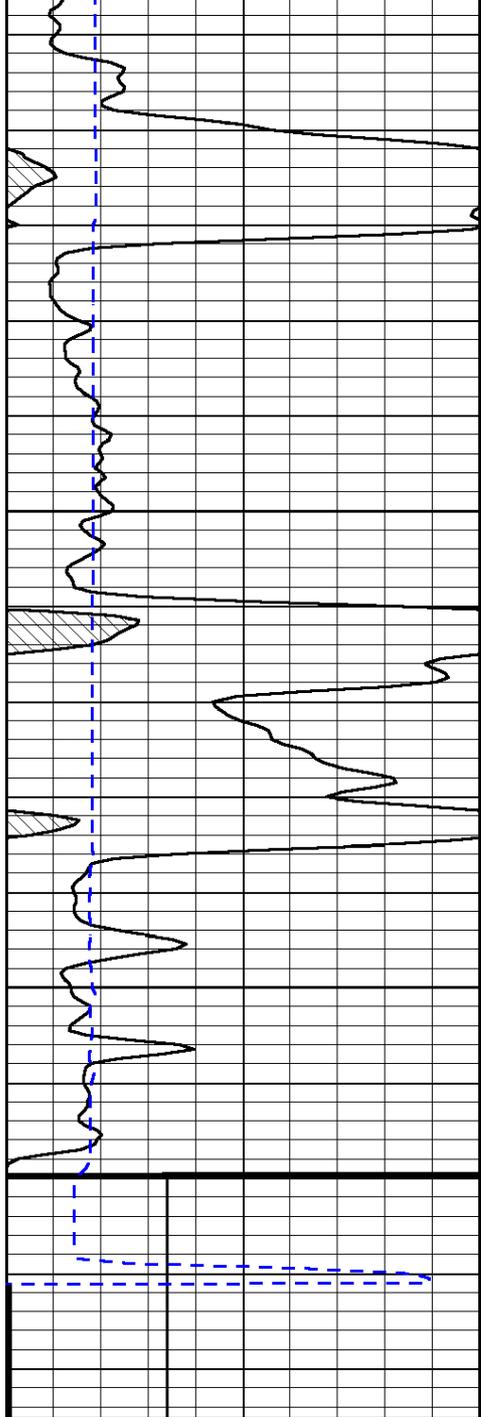












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