



**Borehole Compensated
Sonic Log**

DIGITAL LOG (785) 625-3858

API No. 15-065-23,562-00-00	Company H&C Oil Operating	Location 990' FNL & 990' FWL	Other Services CNL/CDL MEL/DIL
	Well Worcester No 4-1		
	Field Wildcat		
	County Graham		
	State Kansas		
	Sec: 4	Twp: 7S	Rge: 23W
Permanent Datum Log Measured From Drilling Measured From	Ground Level Kelly Bushing Kelly Bushing	Elevation 2467 5 Ft. Above Perm. Datum	K.B. 2472 D.F. 2467 G.L. 2467

Date	08/10/2009
Run Number	Two
Type Log	BHC Sonic
Depth Driller	3985
Depth Logger	3984
Bottom Logged Interval	3974
Top Logged Interval	250
Type Fluid In Hole	Chemical
Salinity, PPM CL	1,000
Density	9.3
Level	Full
Max. Rec. Temp. F	118
Operating Rig Time	4 1/2 Hours
Equipment -- Location	17 Hays
Recorded By	Mike Garrison
Witnessed By	Clayton Erickson

Run No	Bit	Borehole Record		Casing Record	
		From	To	From	To
1	12.25	00	302	8.625	24# 302
2	7.875	302	3985		

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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.

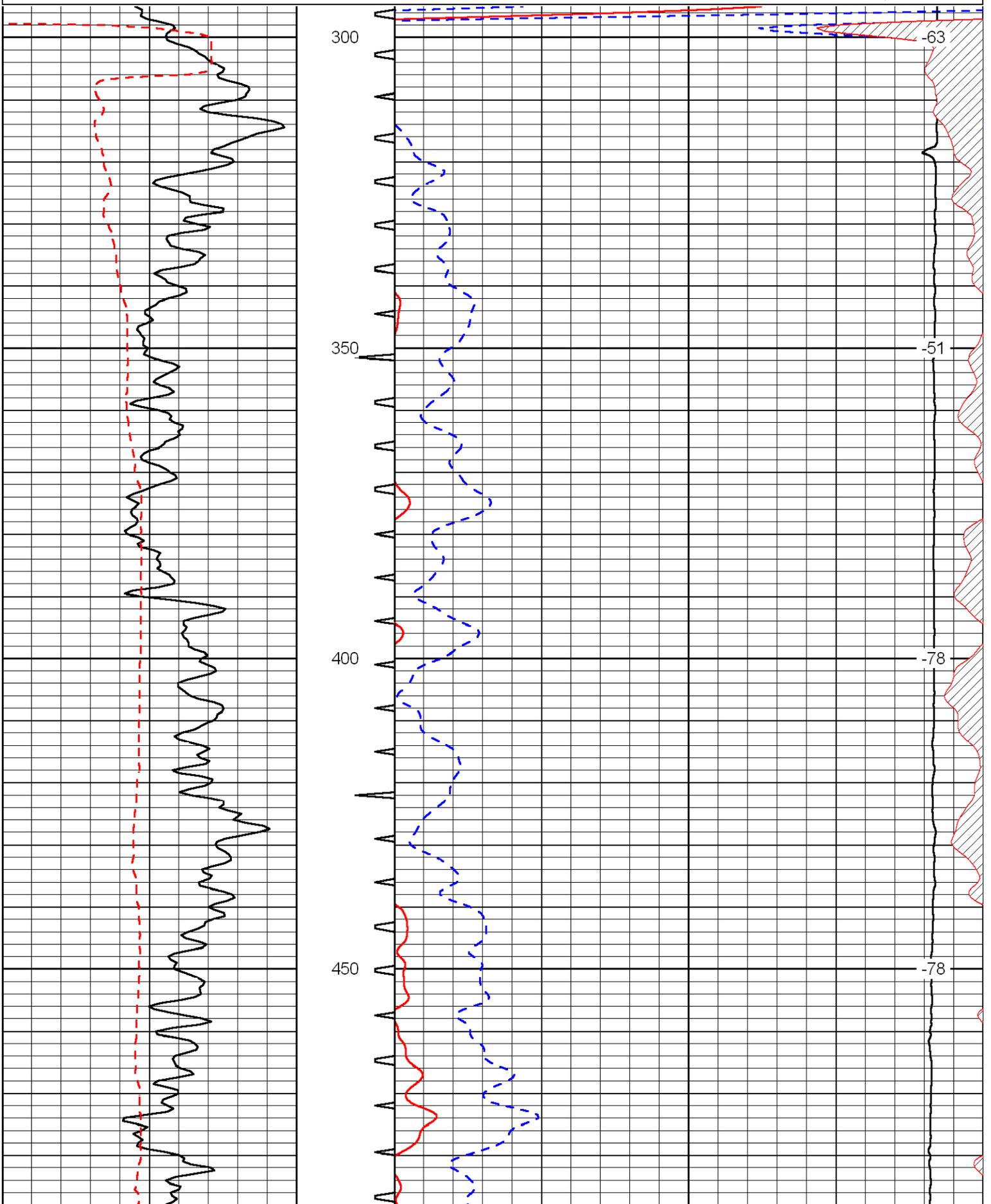
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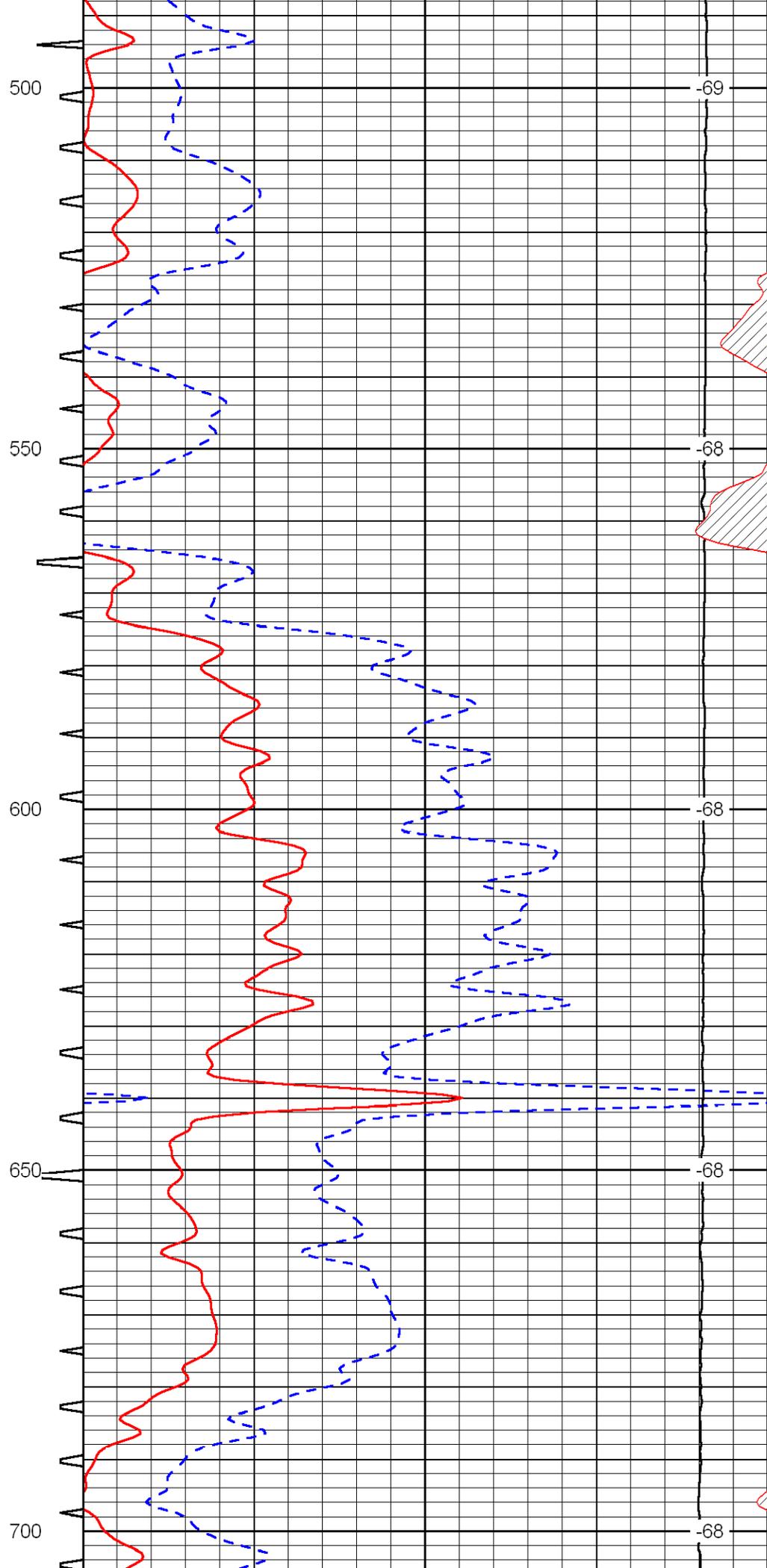
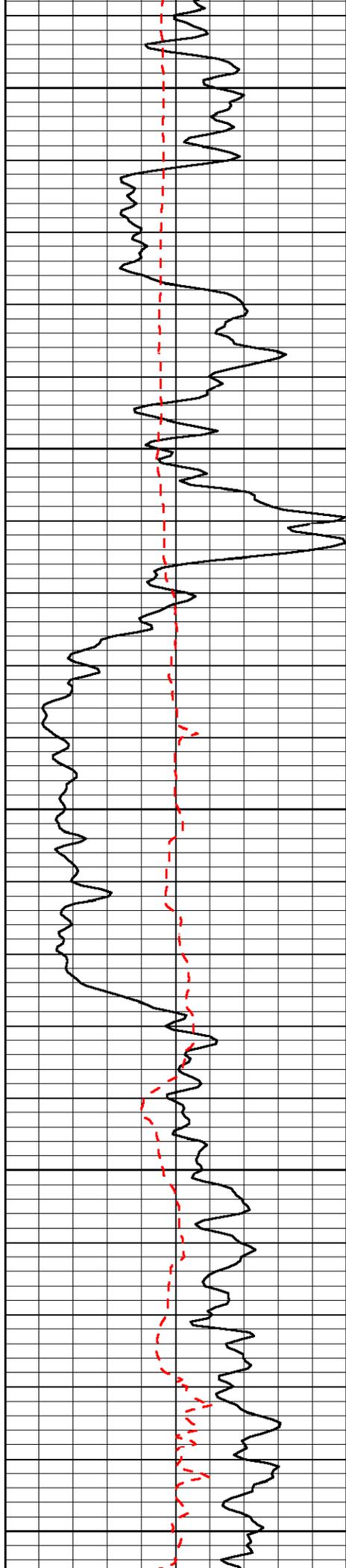
Thank you for using Log-Tech, Inc.
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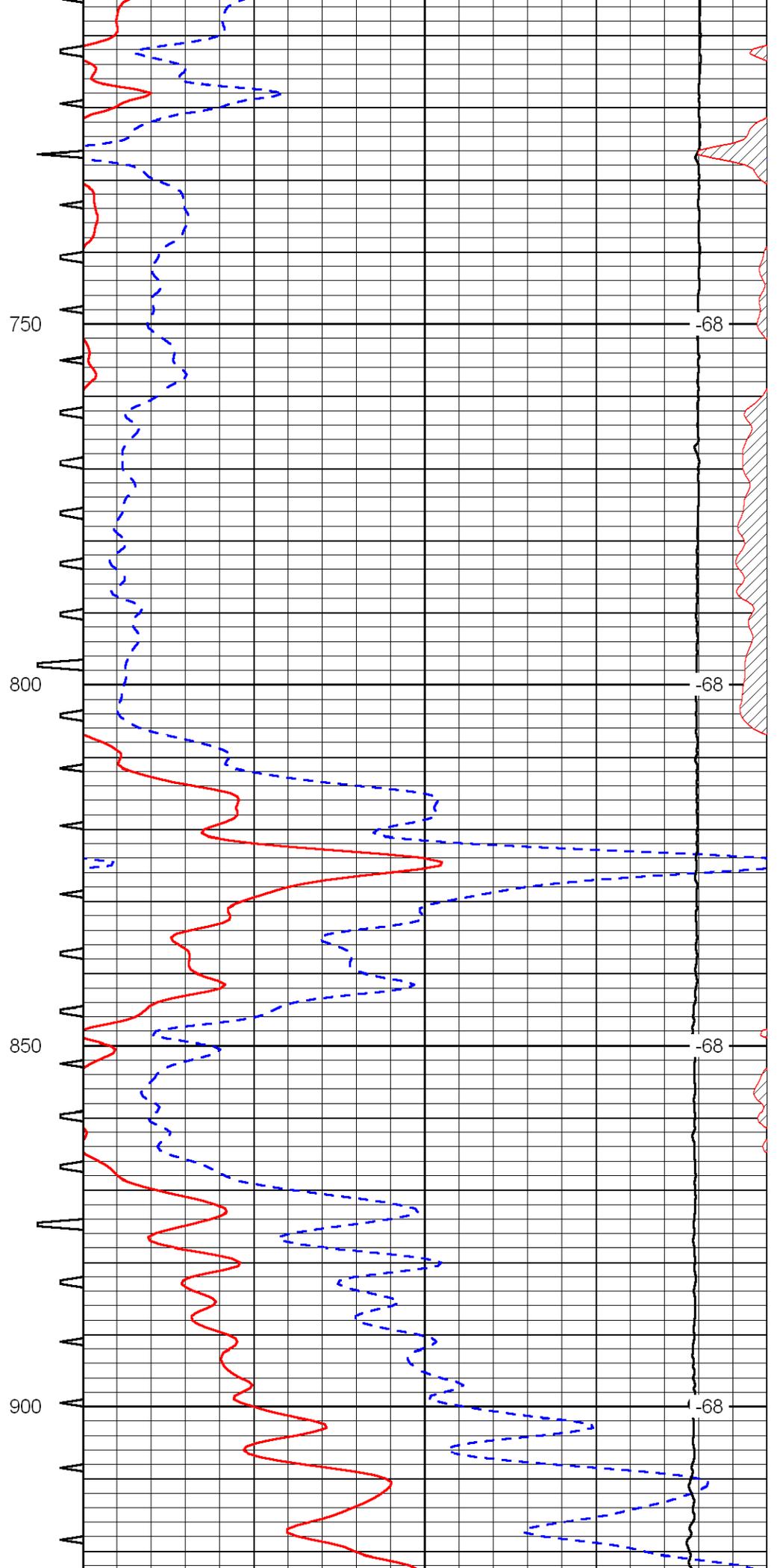
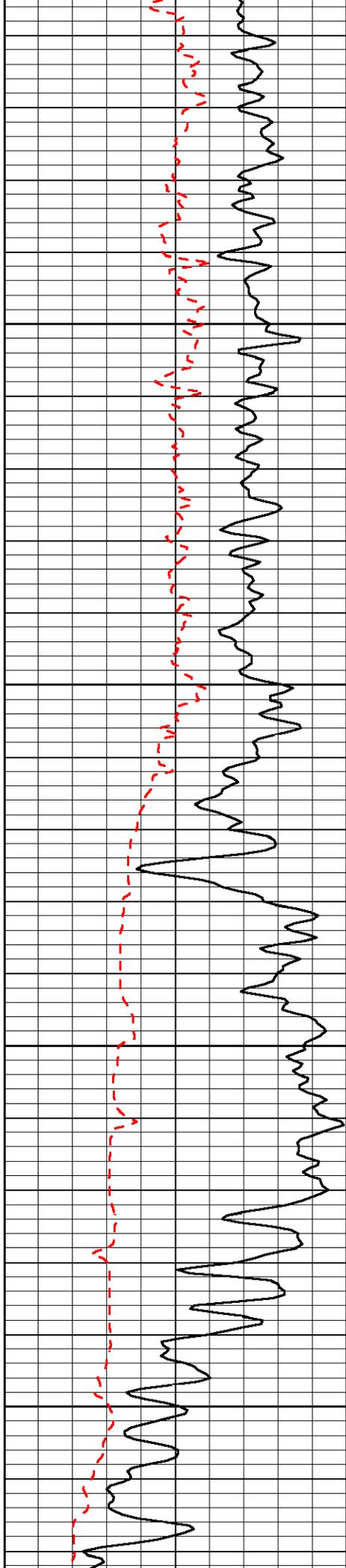
Hill City, 8 North to Y Rd., 2 1/2 West, South Into

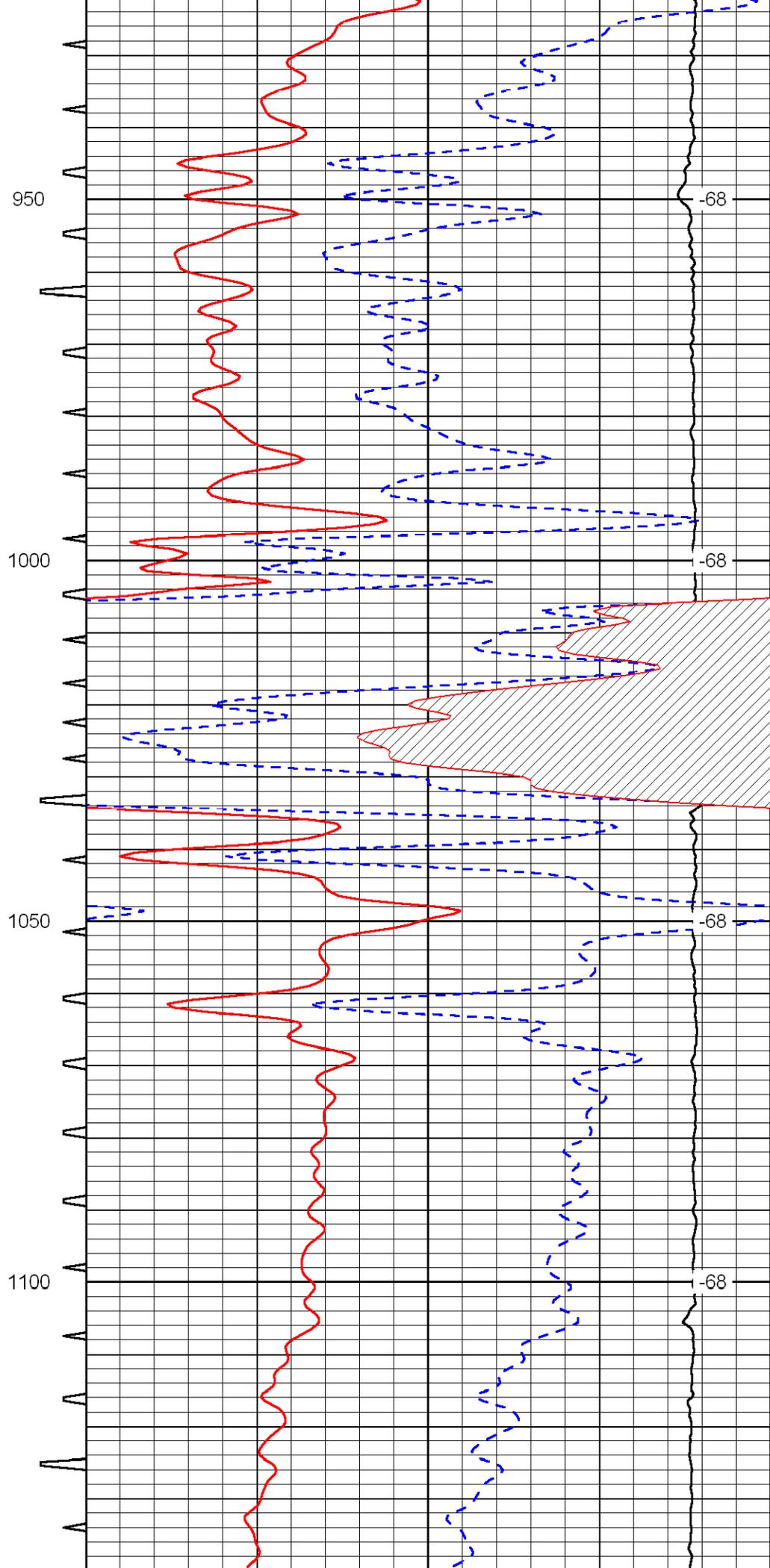
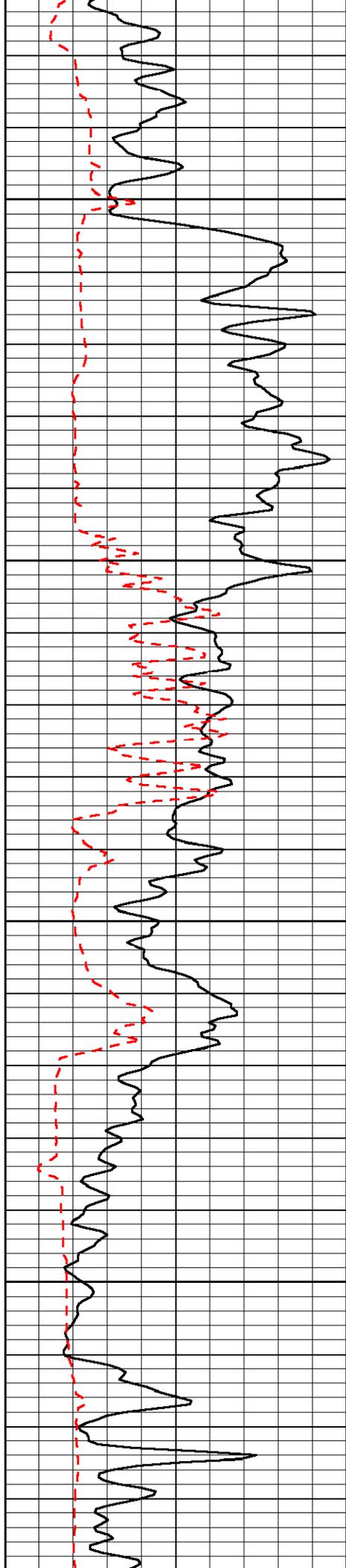
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 Presentation Format: sonic
 Dataset Creation: Mon Aug 10 08:47:12 2009
 Charted by: Depth in Feet scaled 1:240

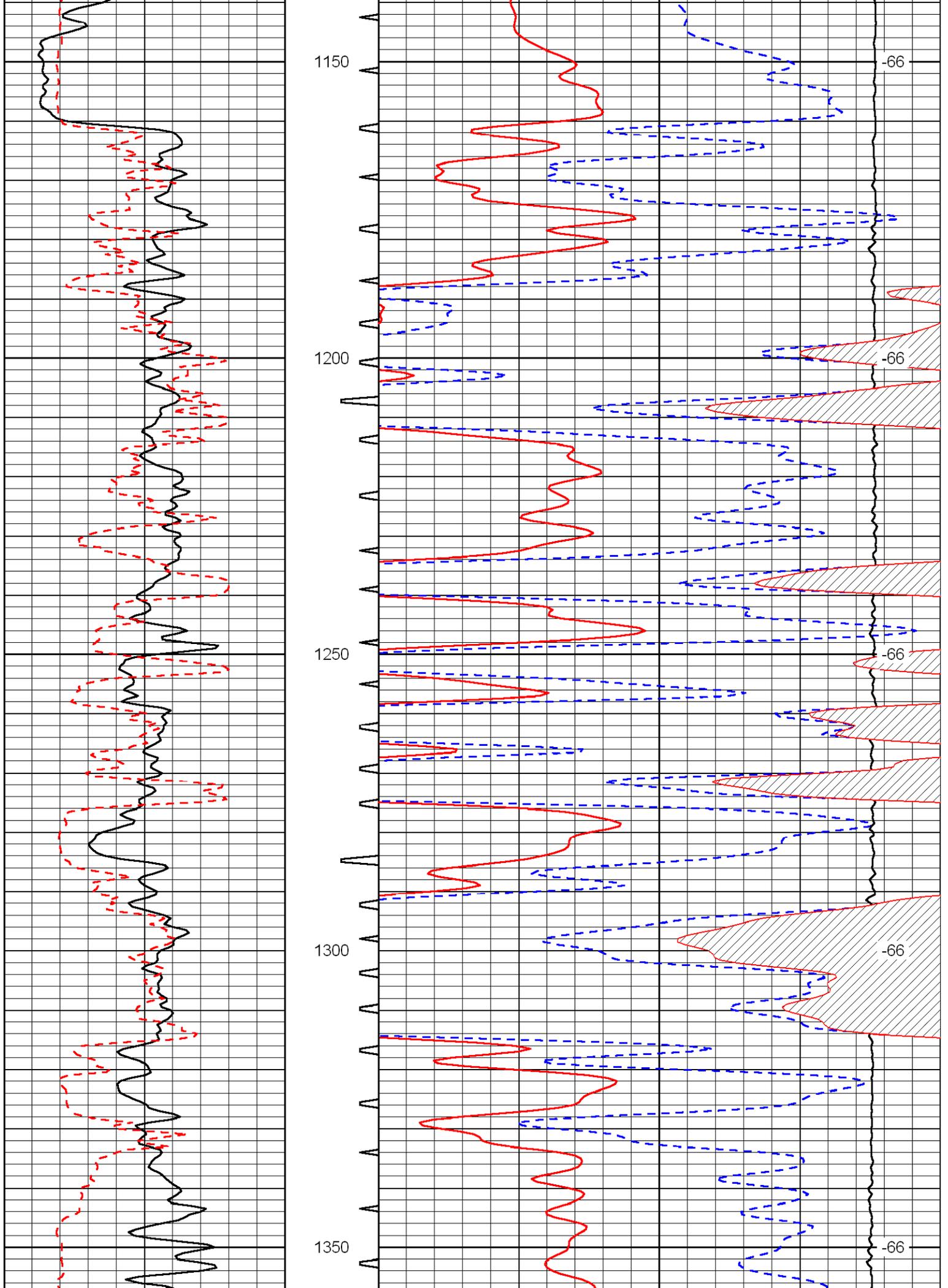
0	Gamma Ray	150	Sonic Int	140	Delta Time (usec/ft) (usec/ft)	40
150	Gamma Ray	300	5 (msec)	0	SPOR (pu)	-10
6	Caliper (in)	16		10000	LTEN (lb) (lb)	0
						LSPD (ft/min)

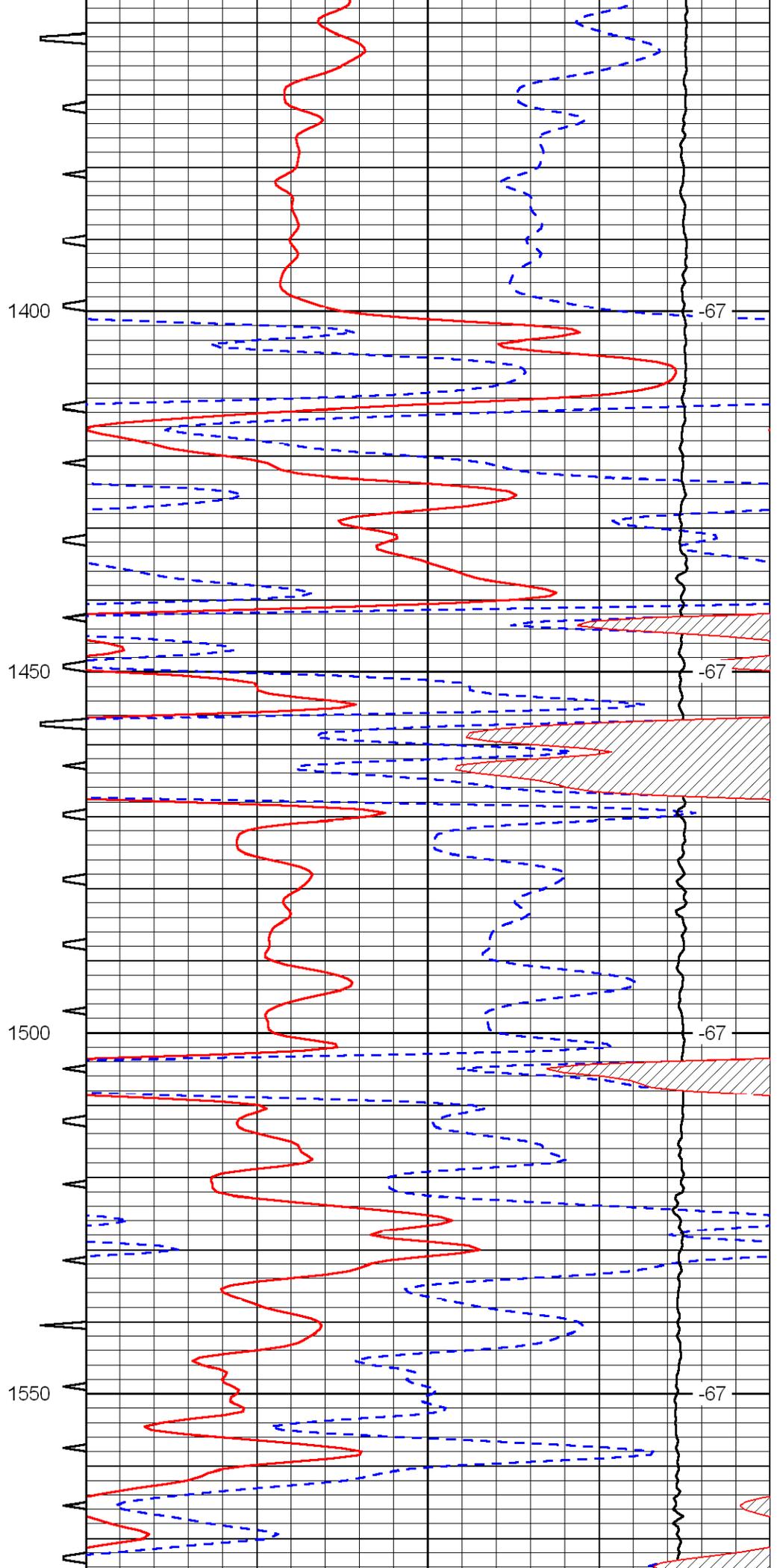
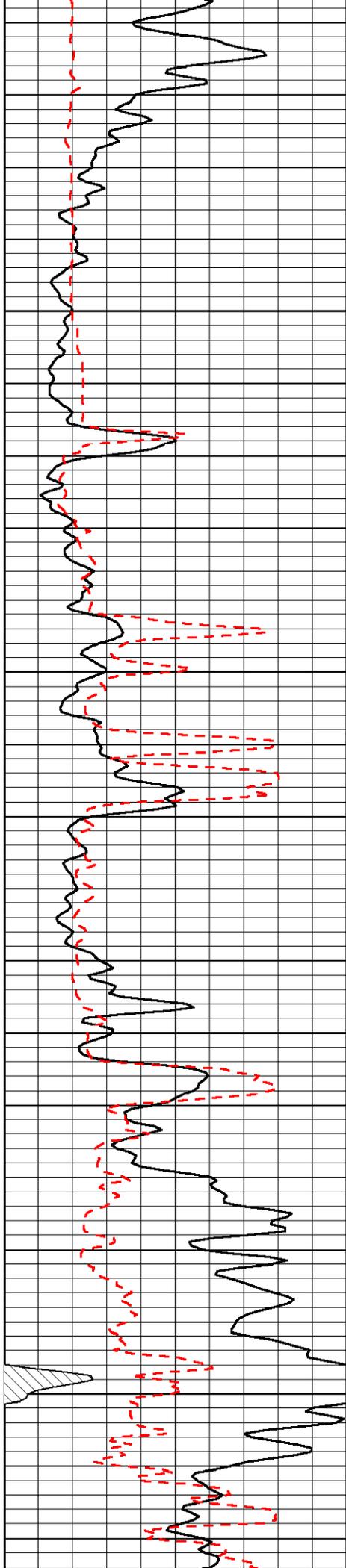


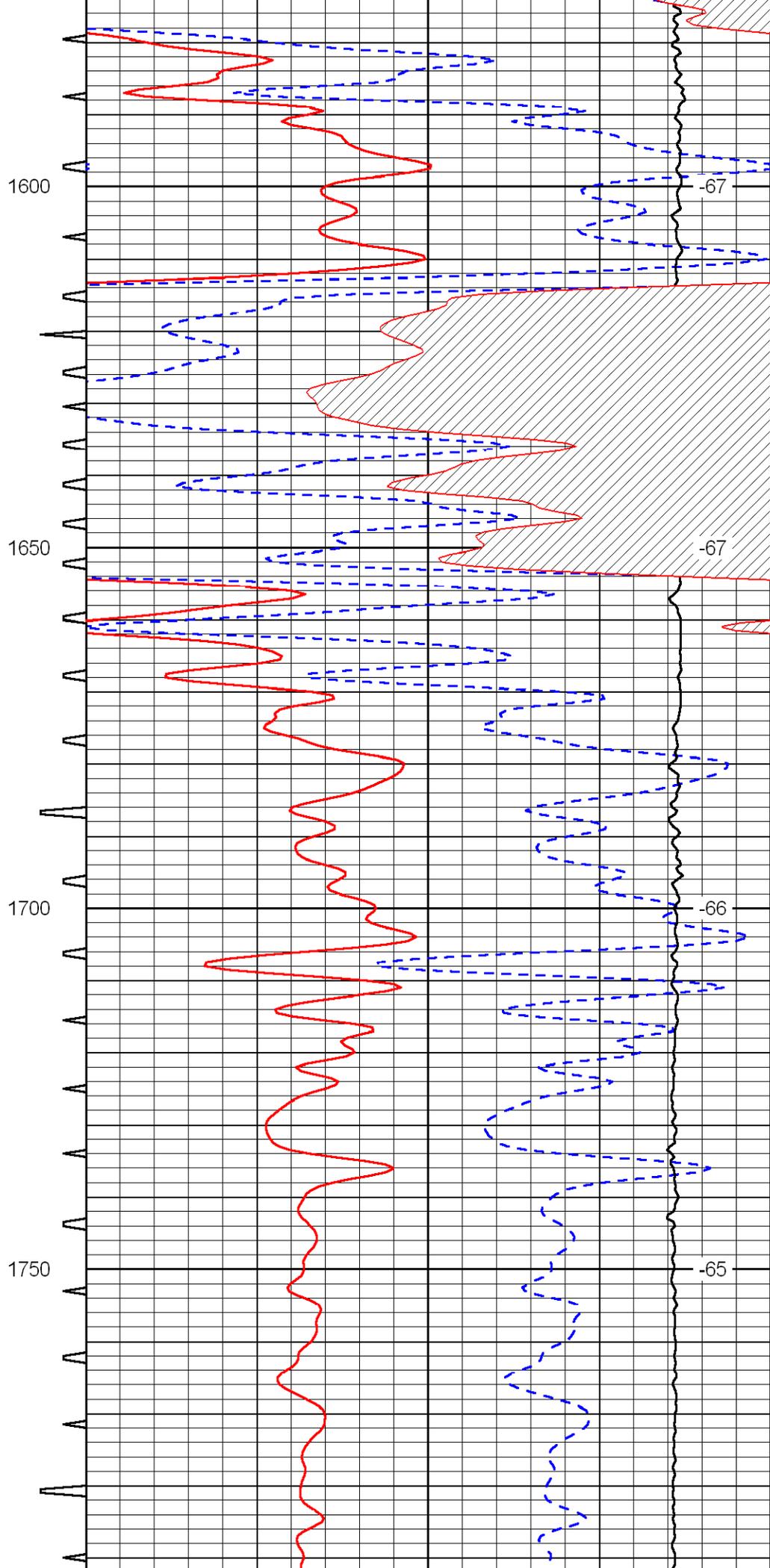
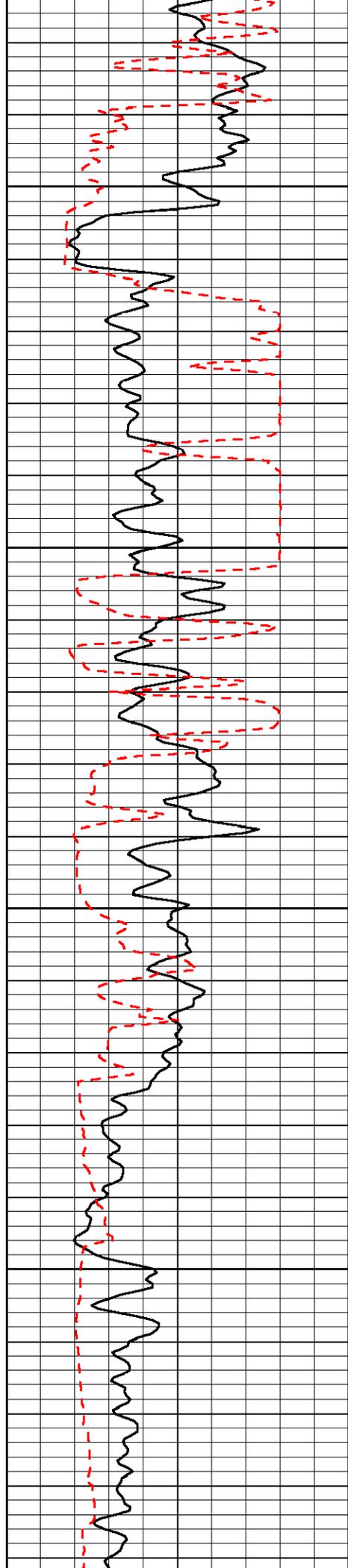


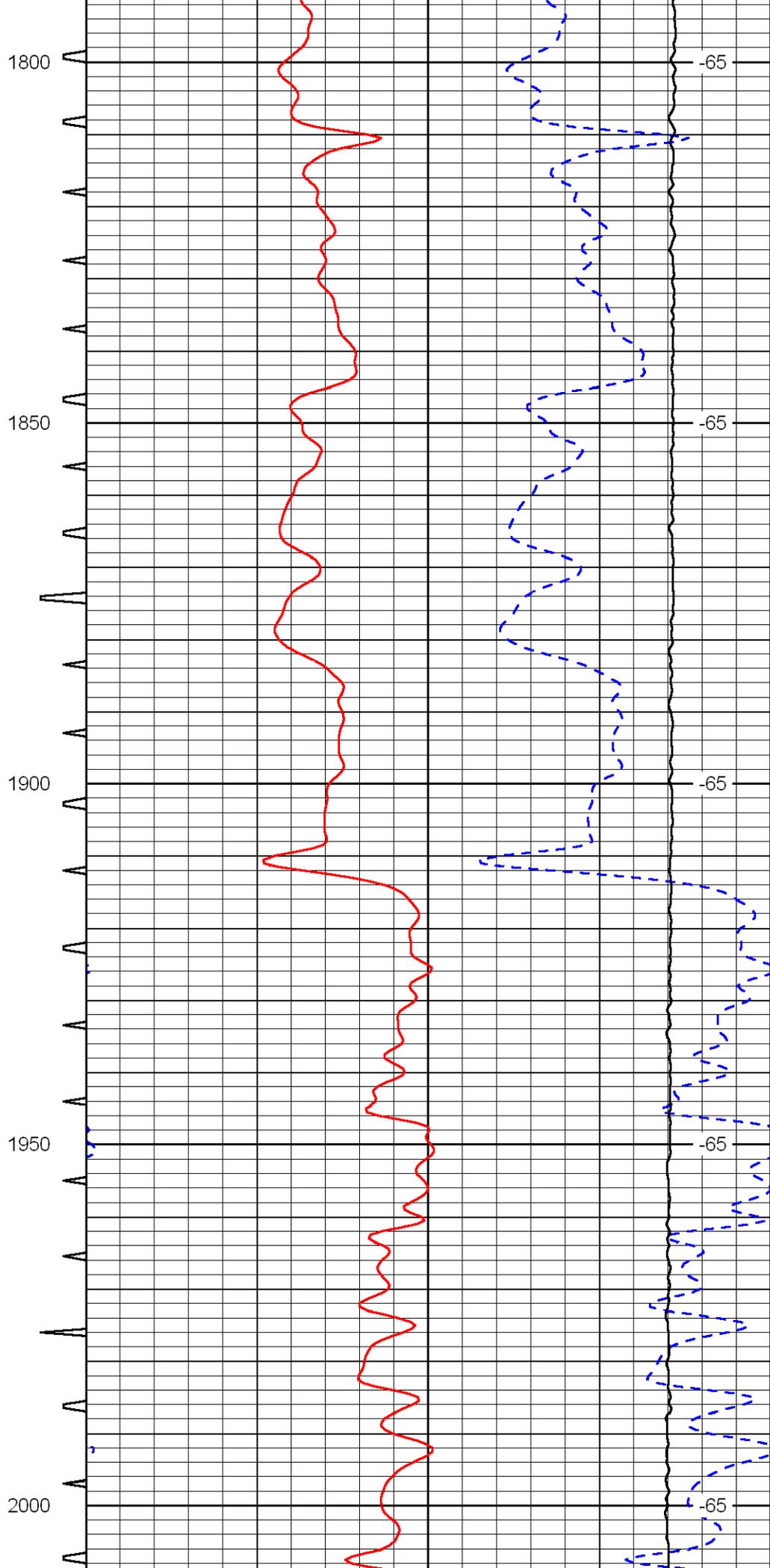
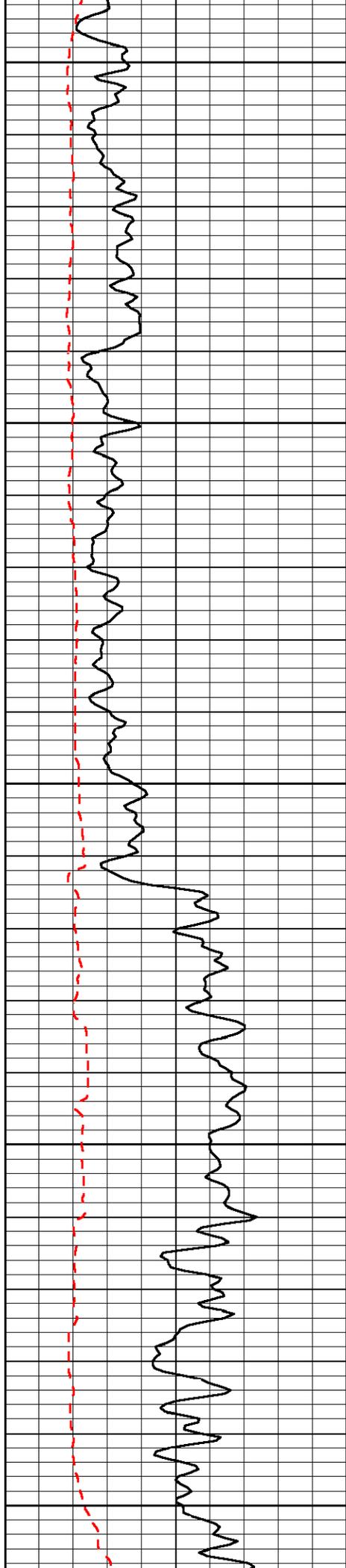


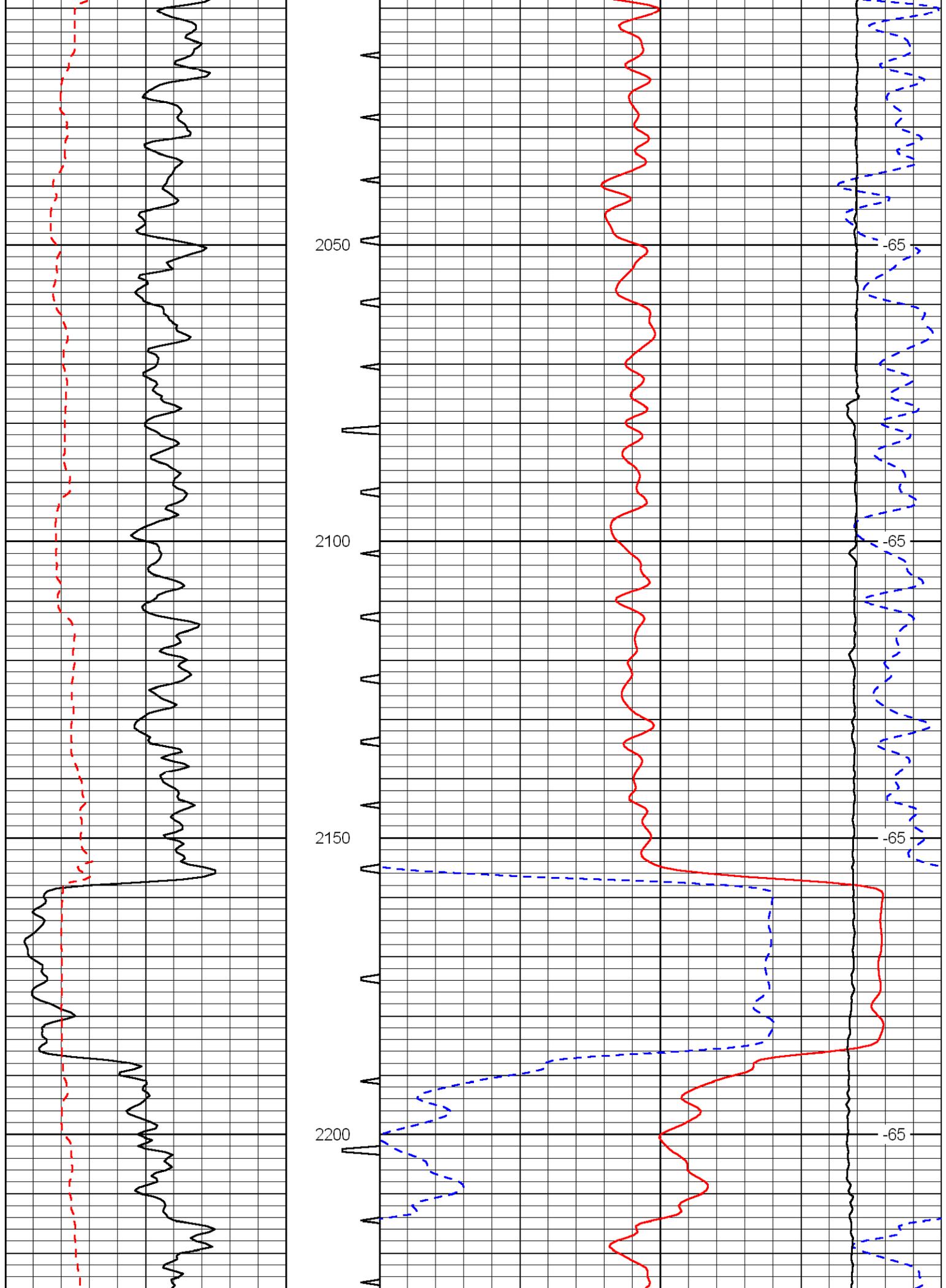


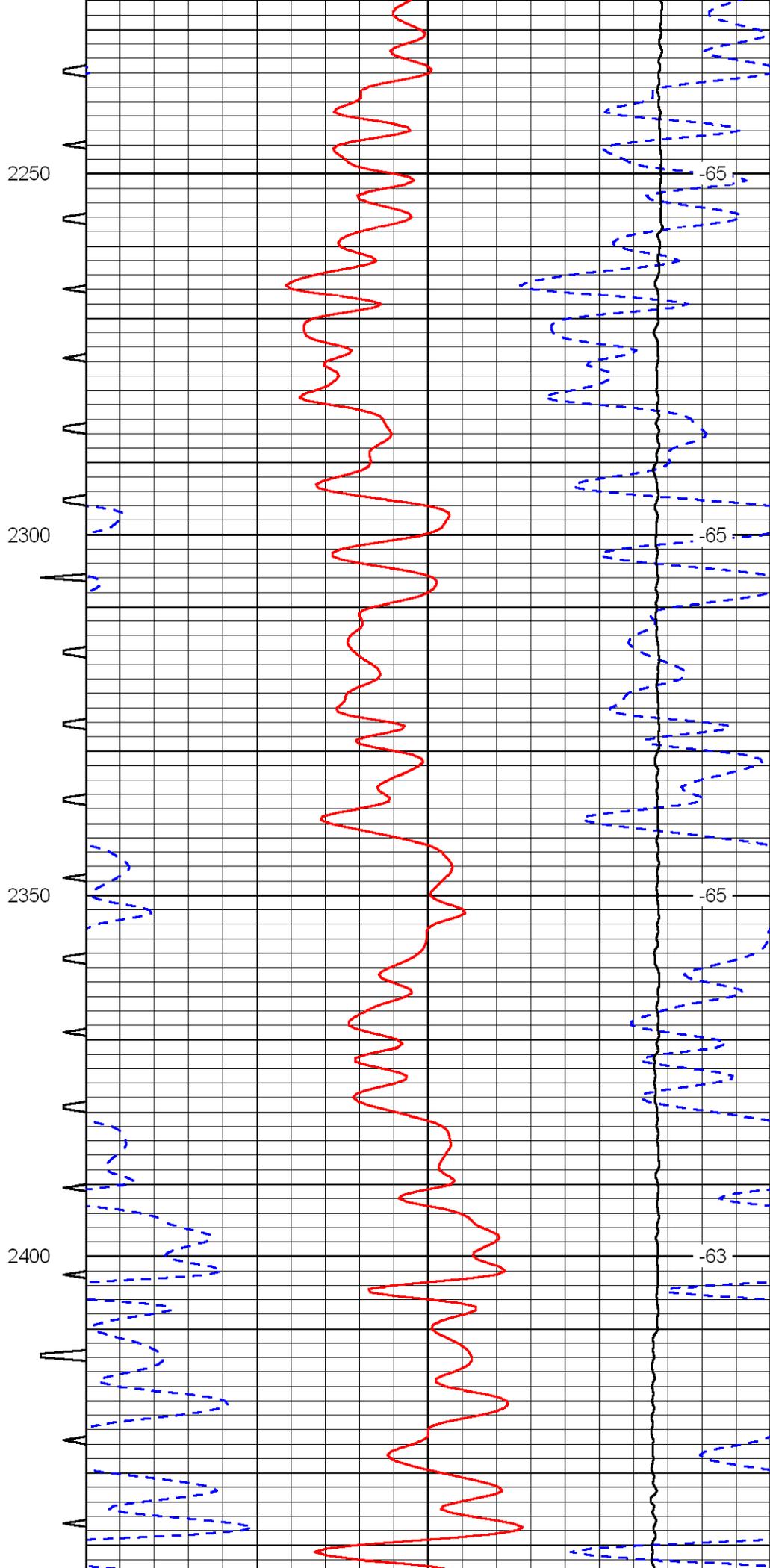
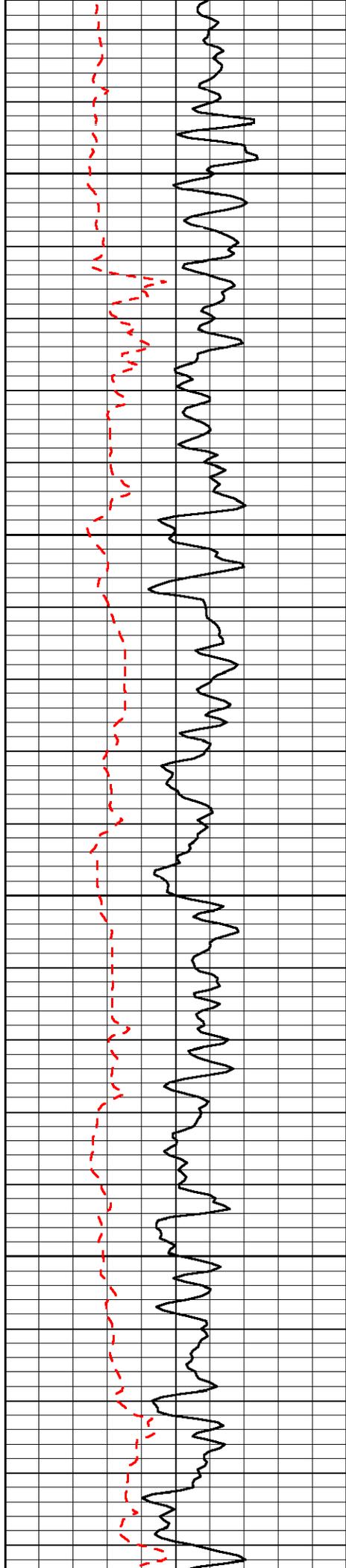


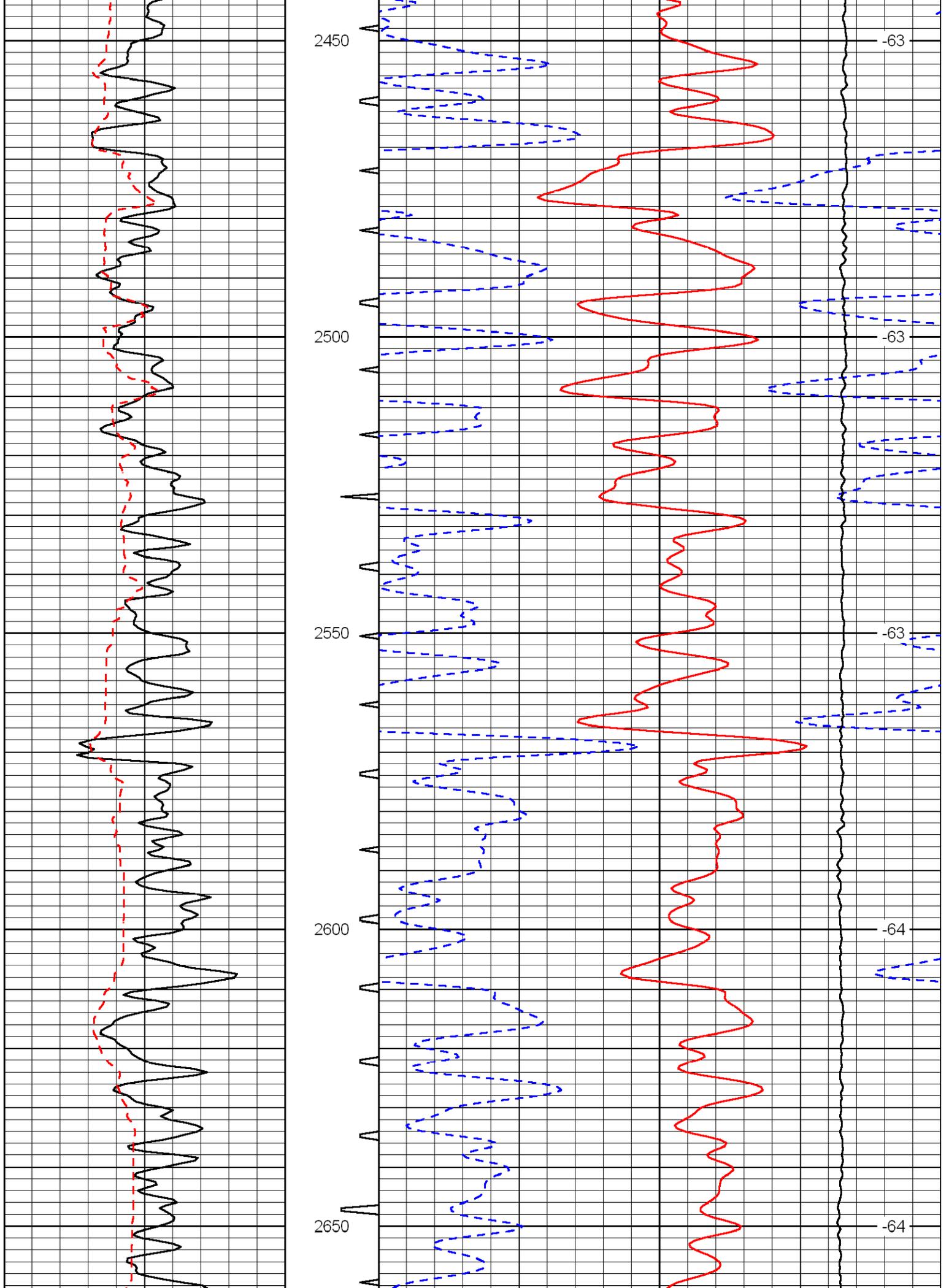


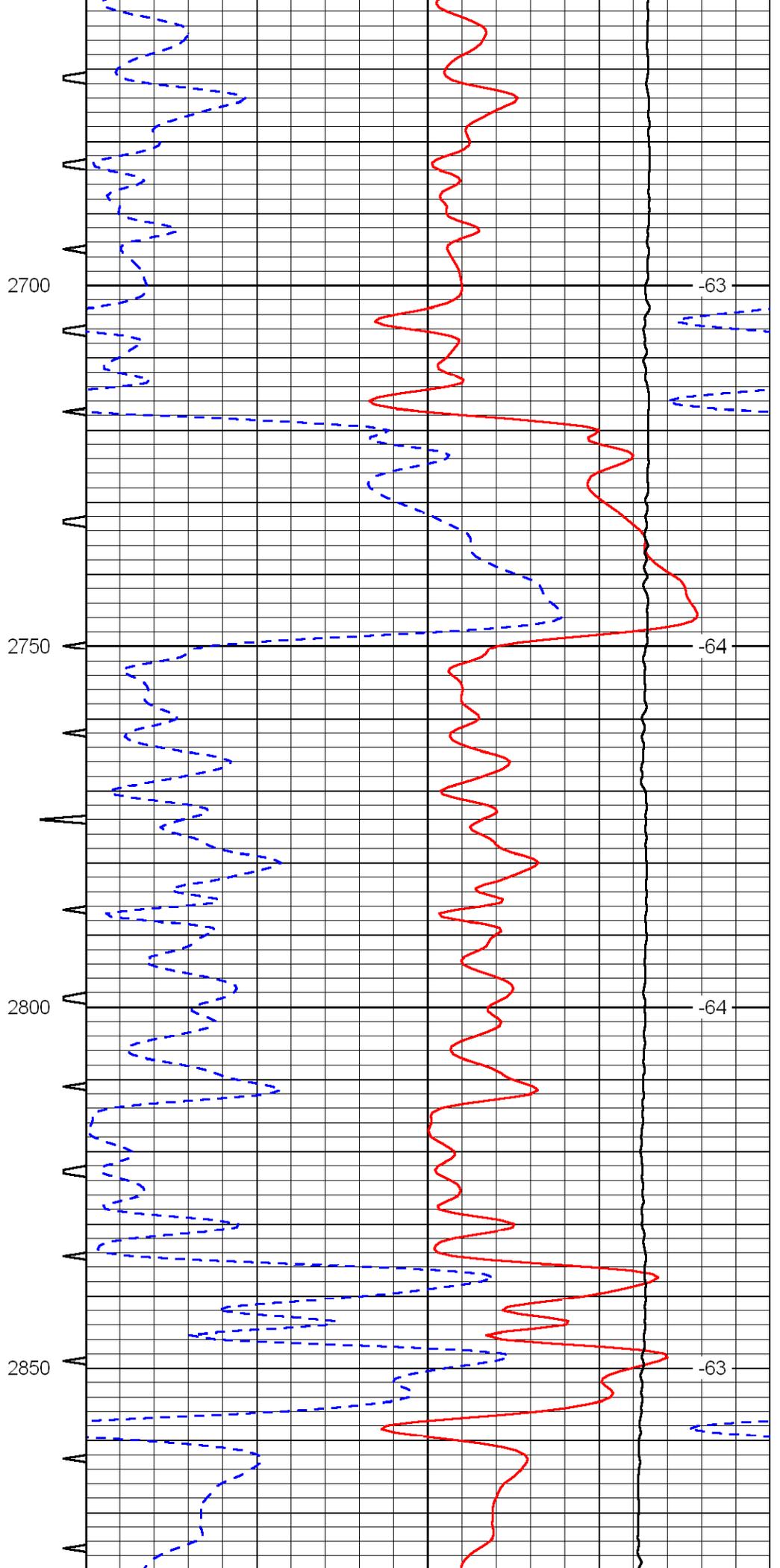
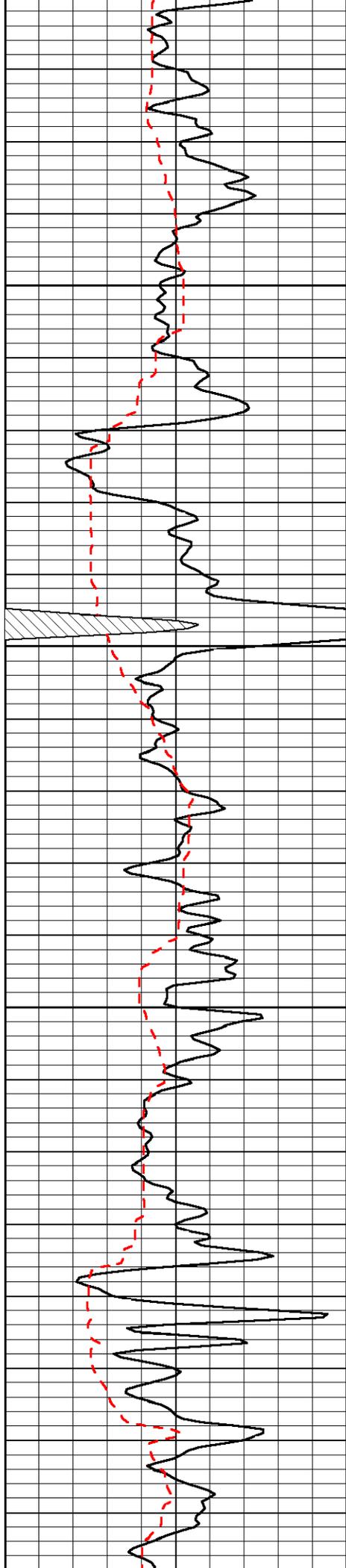


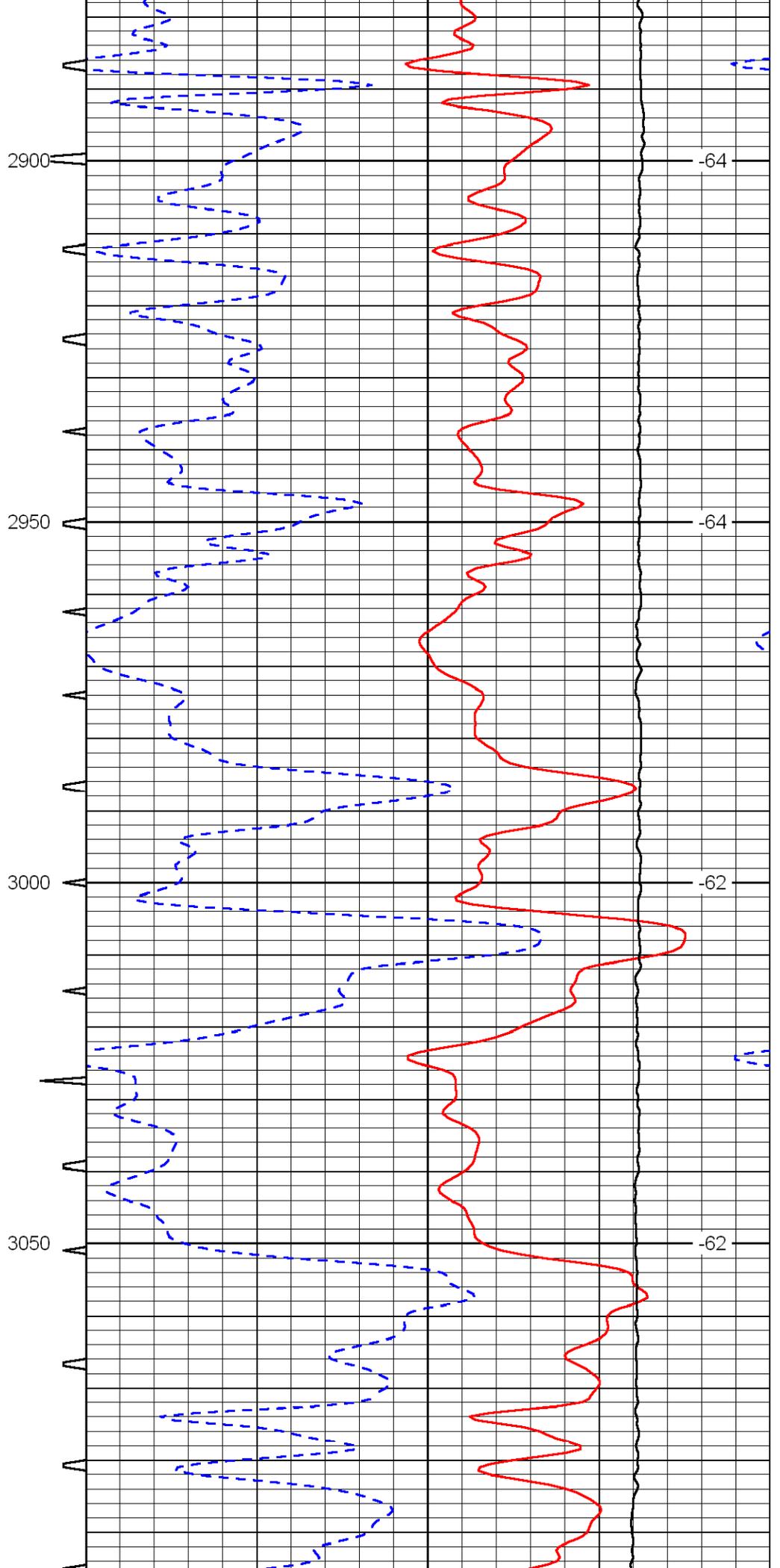
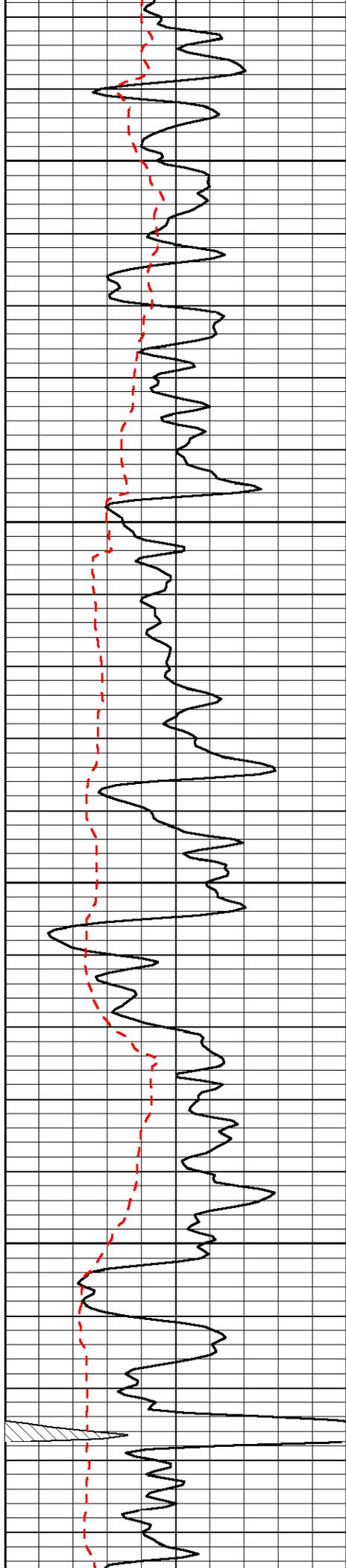


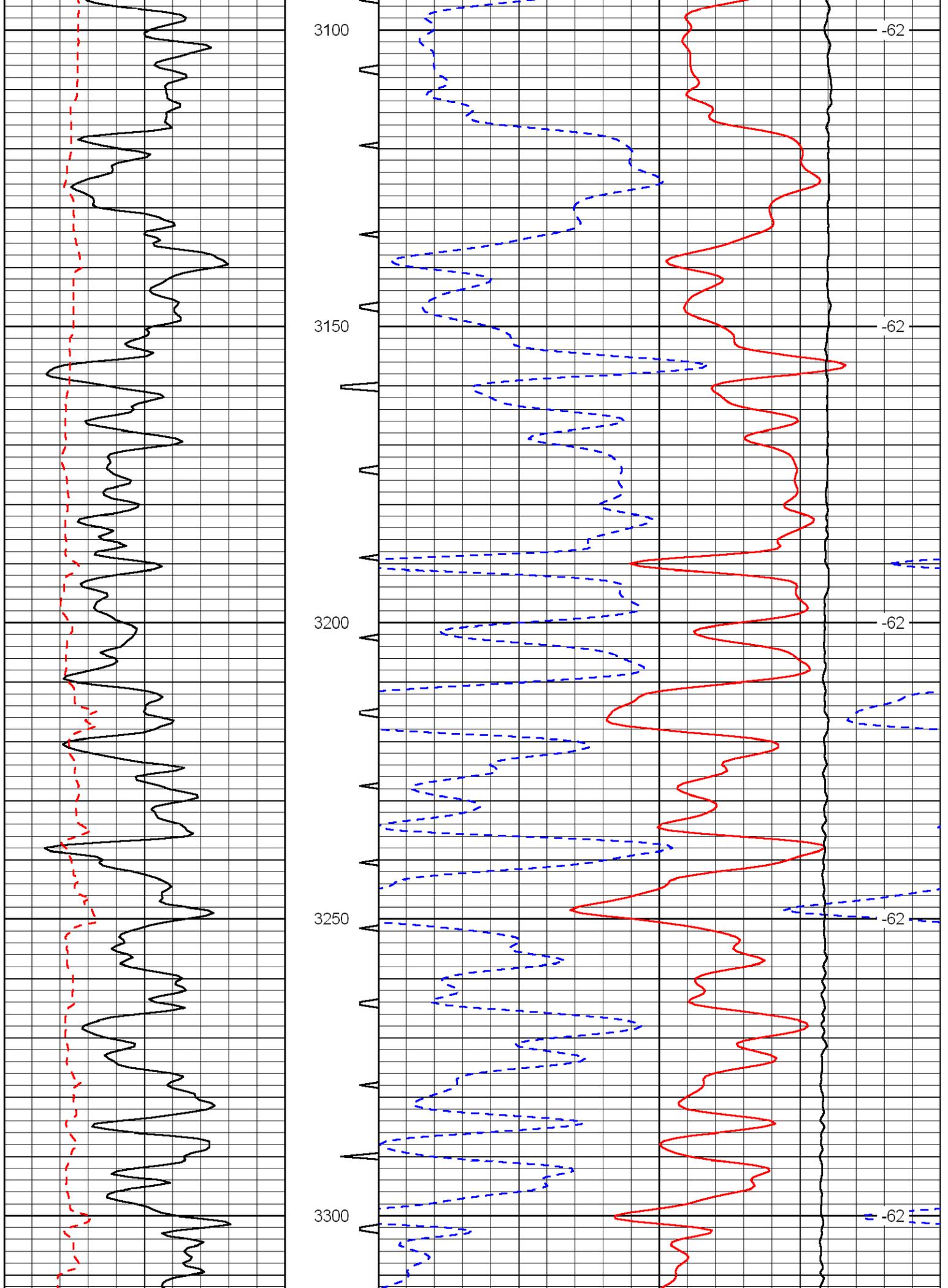


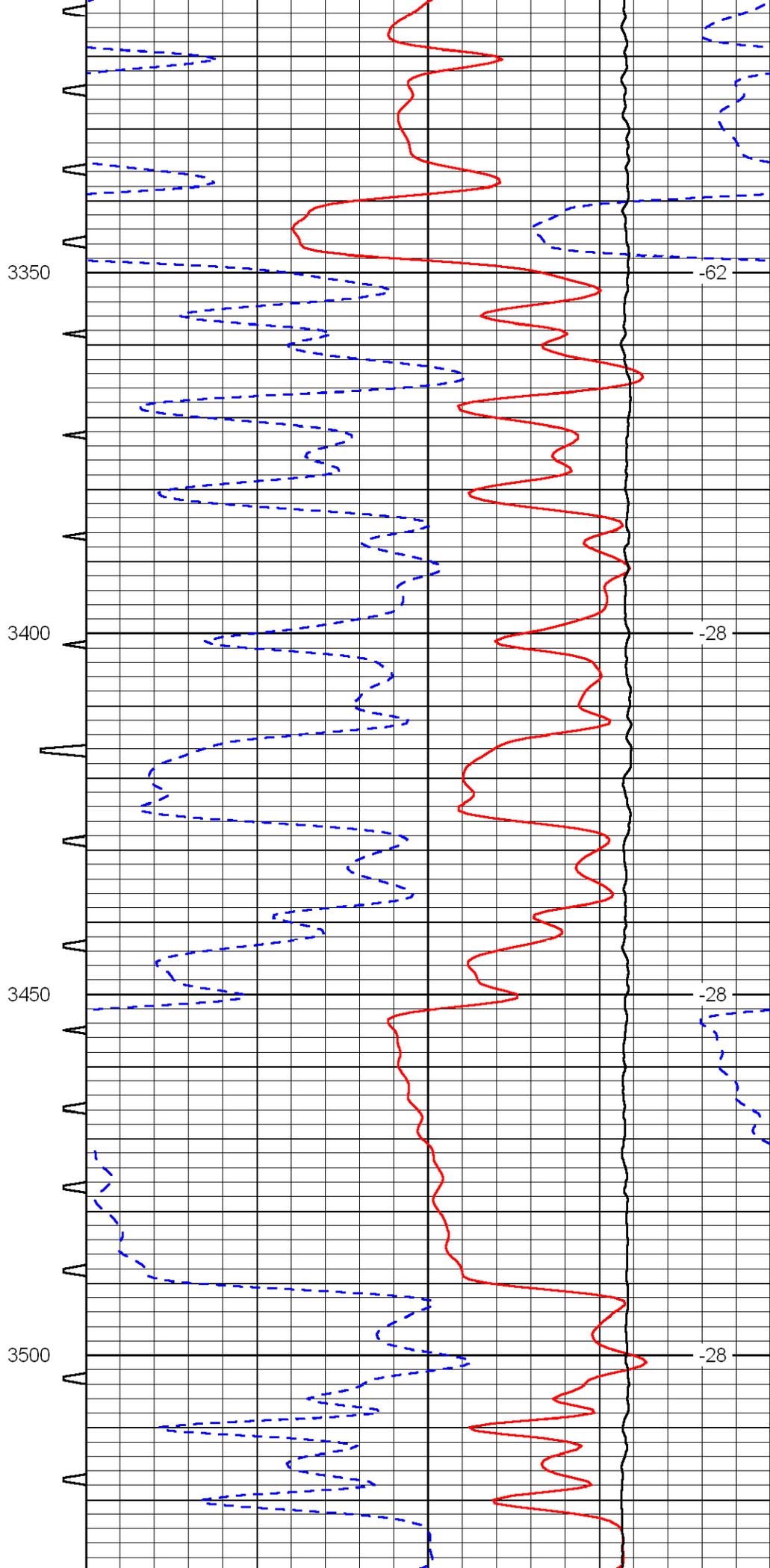
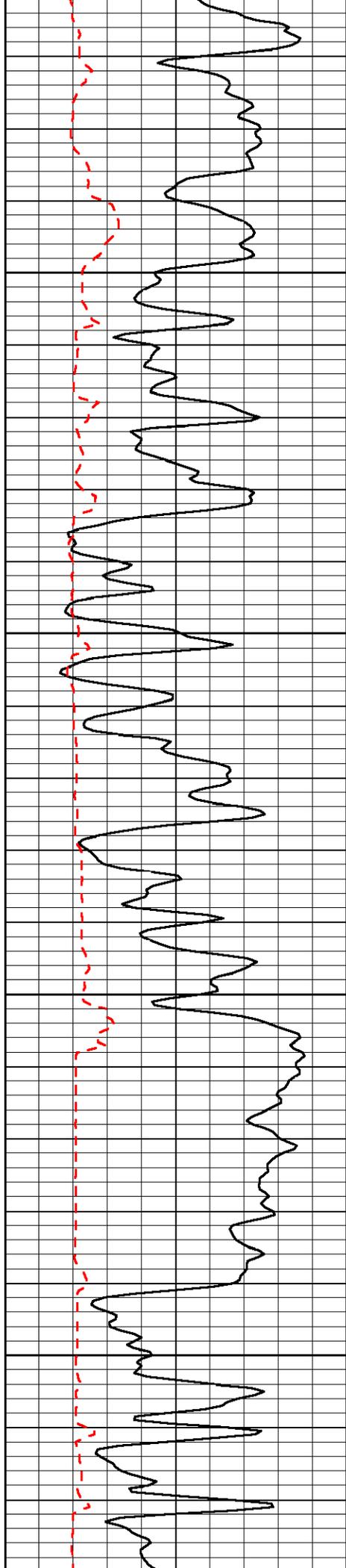


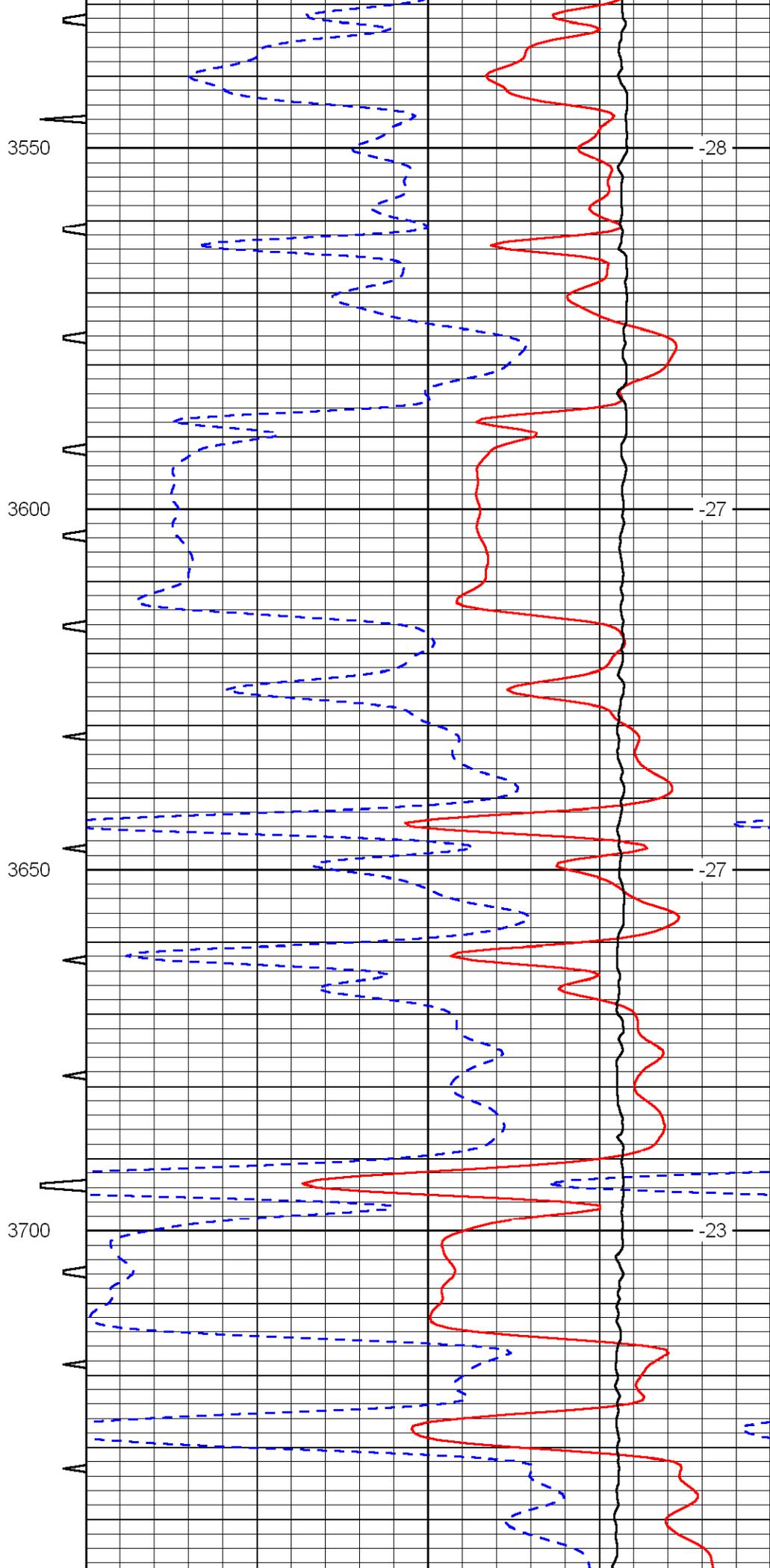
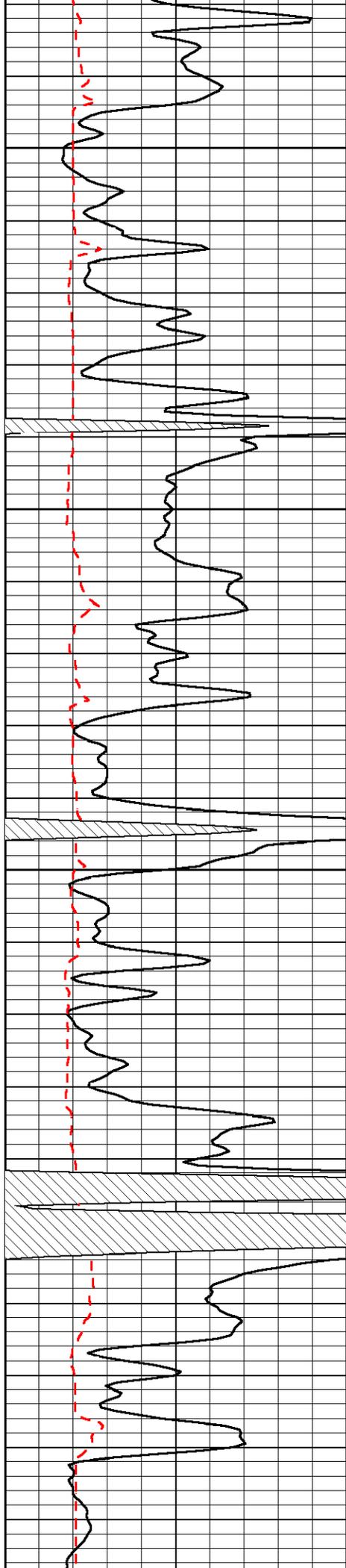


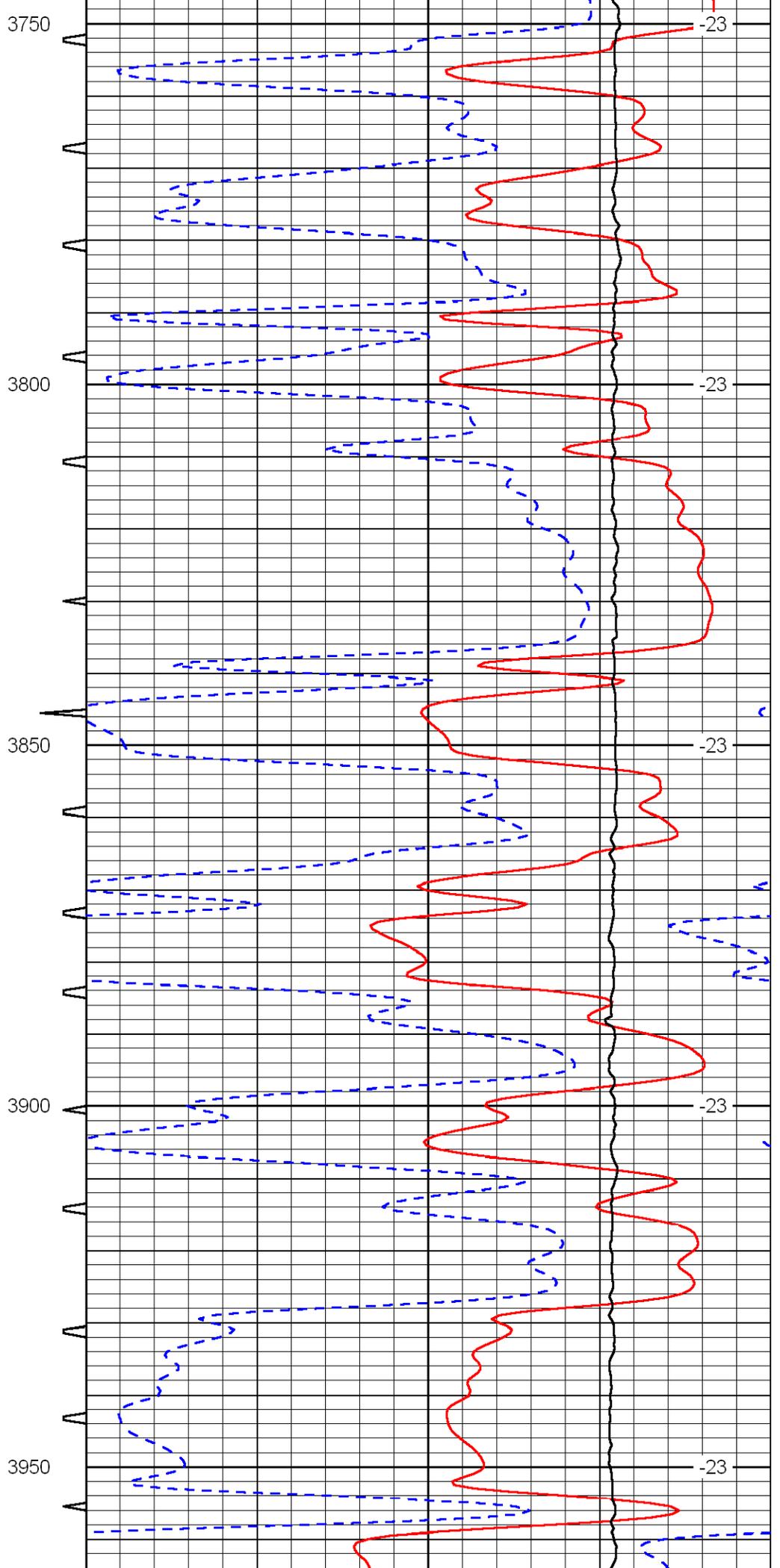
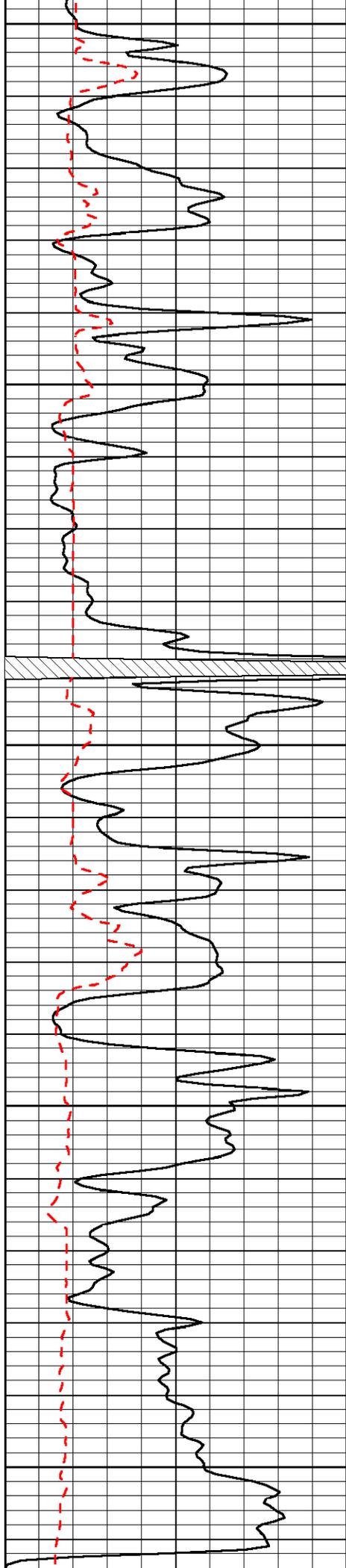


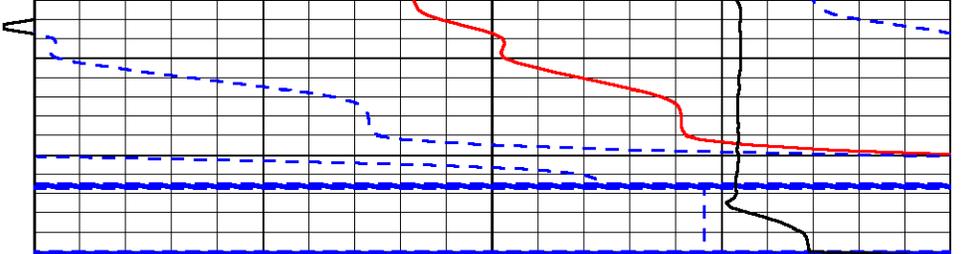
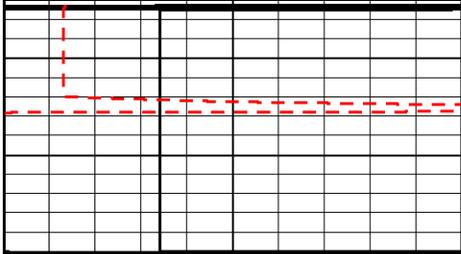












0	Gamma Ray	150
150	Gamma Ray	300
6	Caliper (in)	16

Sonic Int	140	Delta Time (usec/ft) (usec/ft)	40
5 (msec) 0	30	SPOR (pu)	-10
	10000	LTEN (lb) (lb)	0

LSPD (ft/min)
