



Borehole Compensated Sonic Log

API No.

15-153-20,933-00-00

Murfin Drilling Company, Inc.

Well Mary Ann No. 2-1

Field County Rawlins State Kansas

Location 330' FNL & 1520' FWL

Sec: 1 Twp: 1S Rge: 36W

Elevation

Ground Level	Elevation 3085
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From Kelly Bushing	10 Ft. Above Perm. Datum	D.F. 3085
From Kelly Bushing		G.L.

	8/8/2013
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	BHC Sonic
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	4410
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Interval	200
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MCL	600
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	Full
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Time	5 Hours
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	J. Henricks
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	Robert Hendrix	
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Borehole Record

From	To	Size	Wgt.	From	To
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30	420	0.020	474	30	420
223	4420				

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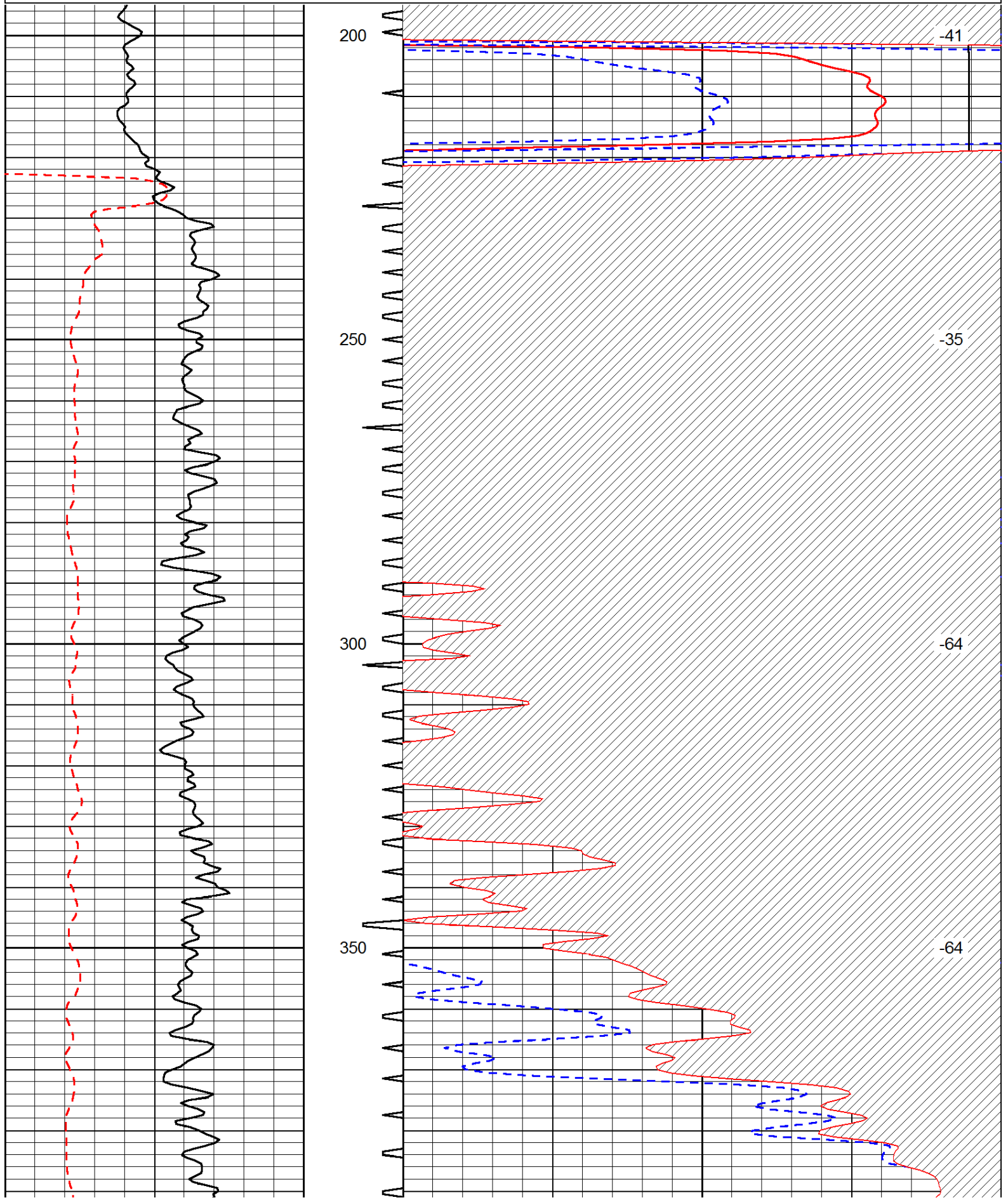
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

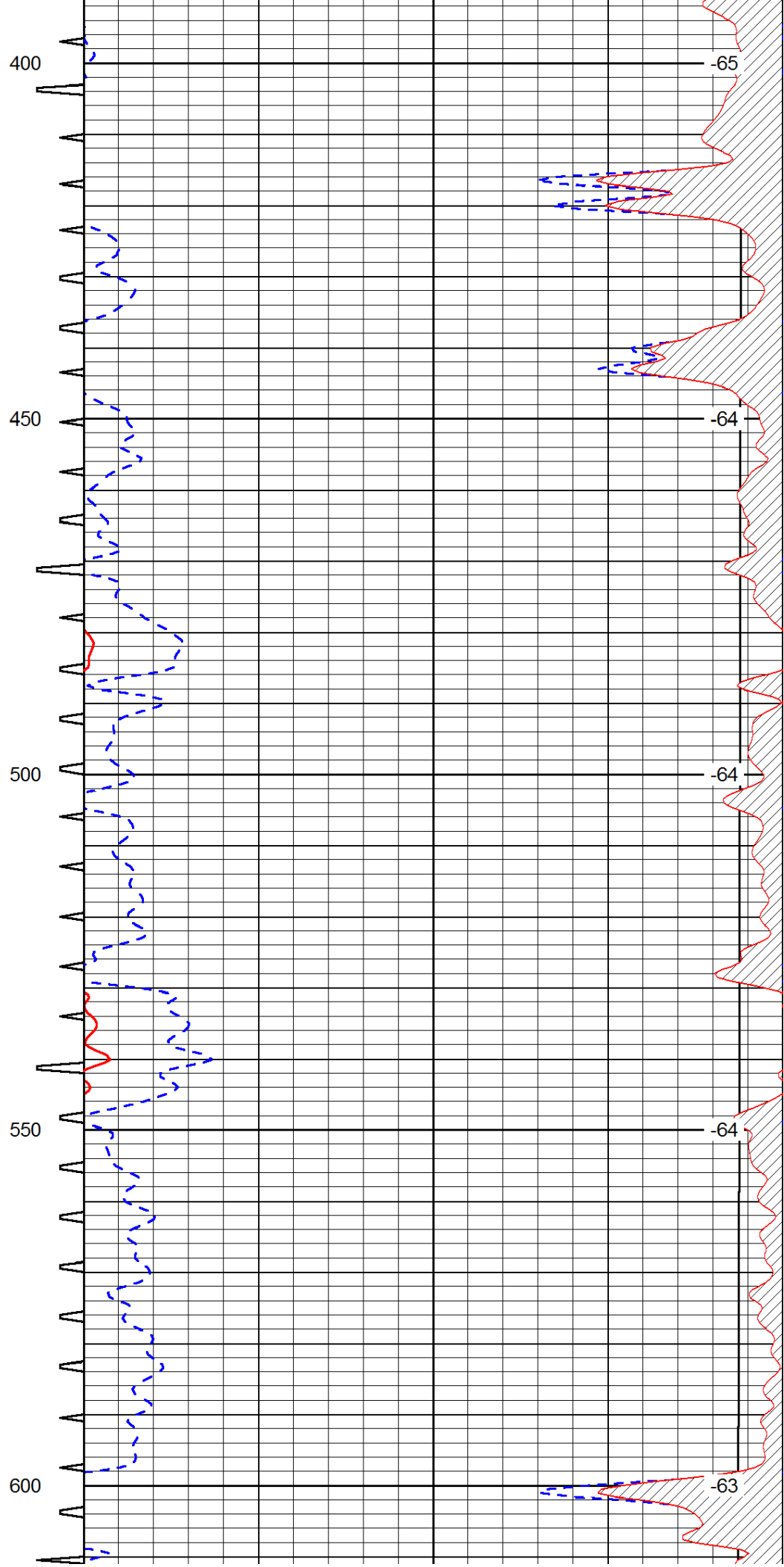
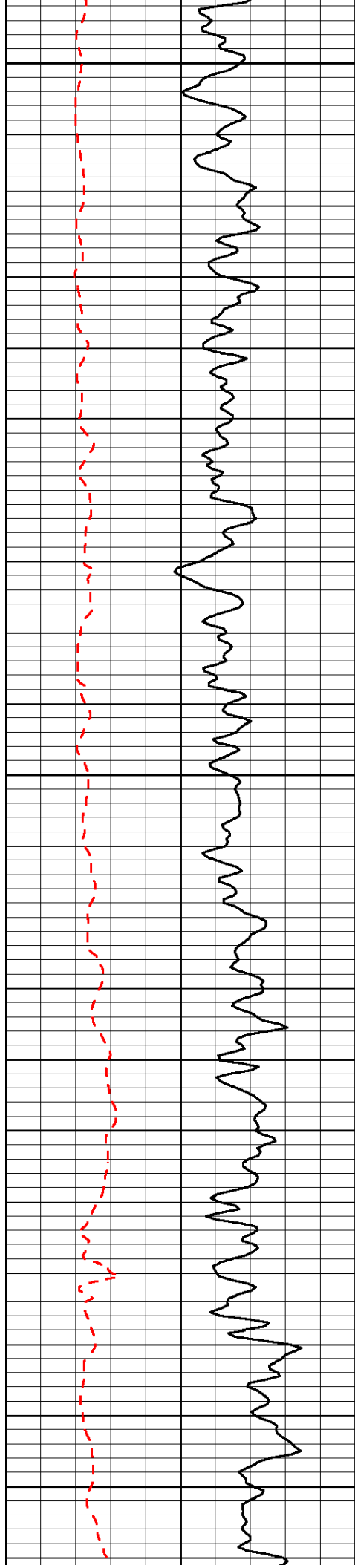
Comments

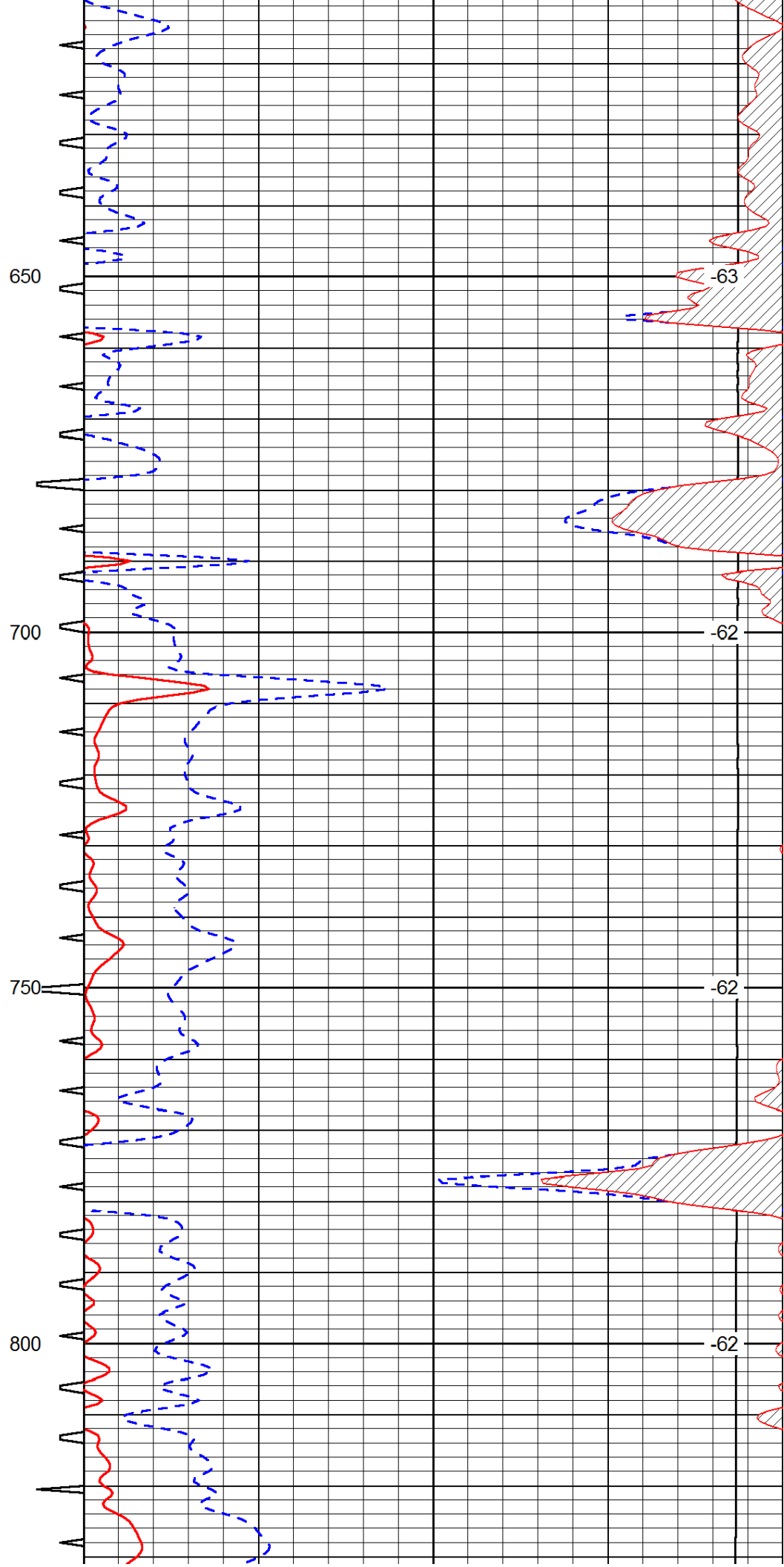
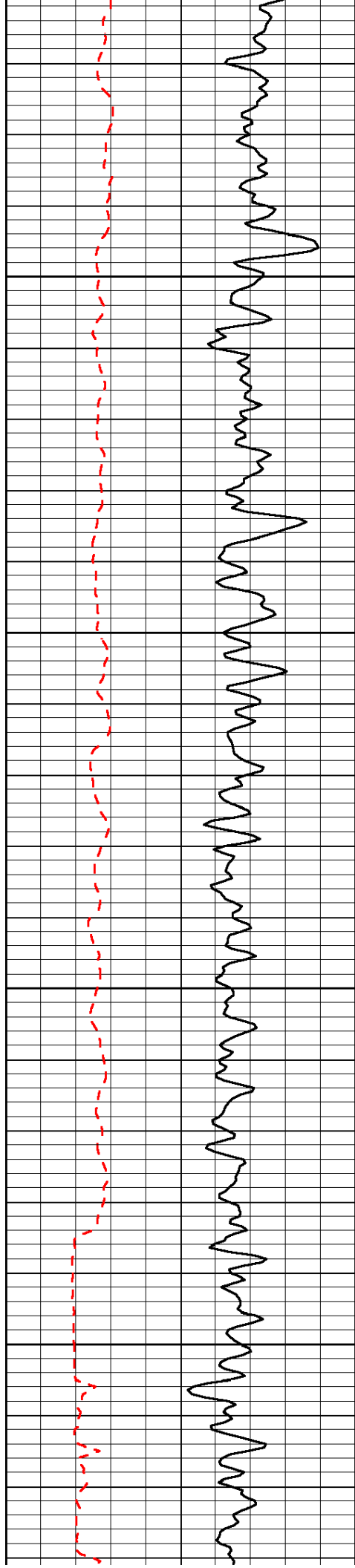
Thank you for using Pioneer Energy Services
www.pioneerres.com
785 625 3858
Atwood Kansas
West to 11 Rd, North to Beardsley, North to CC Rd
3 West to 7 Rd, 1 1/2 North, West Into

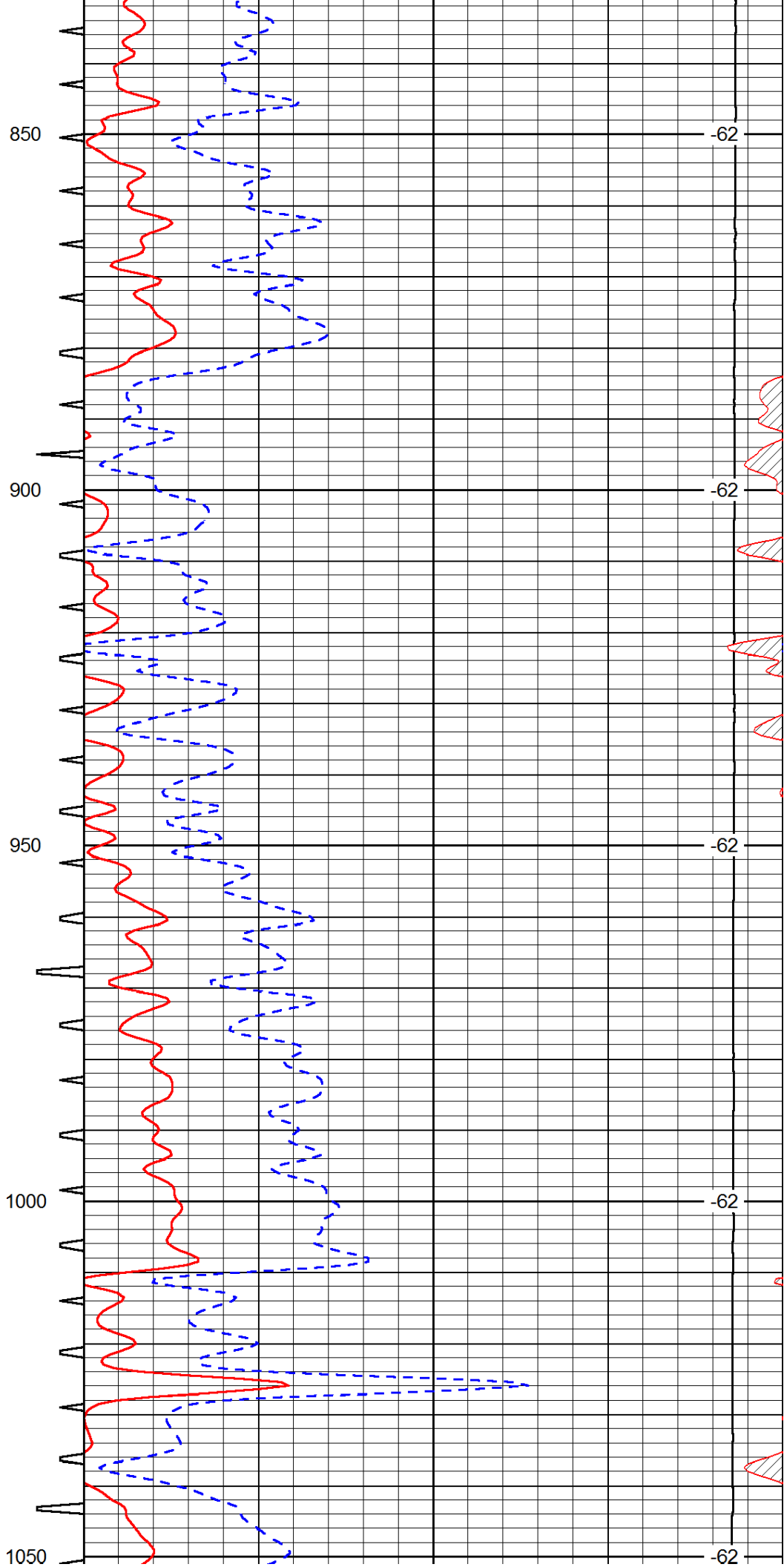
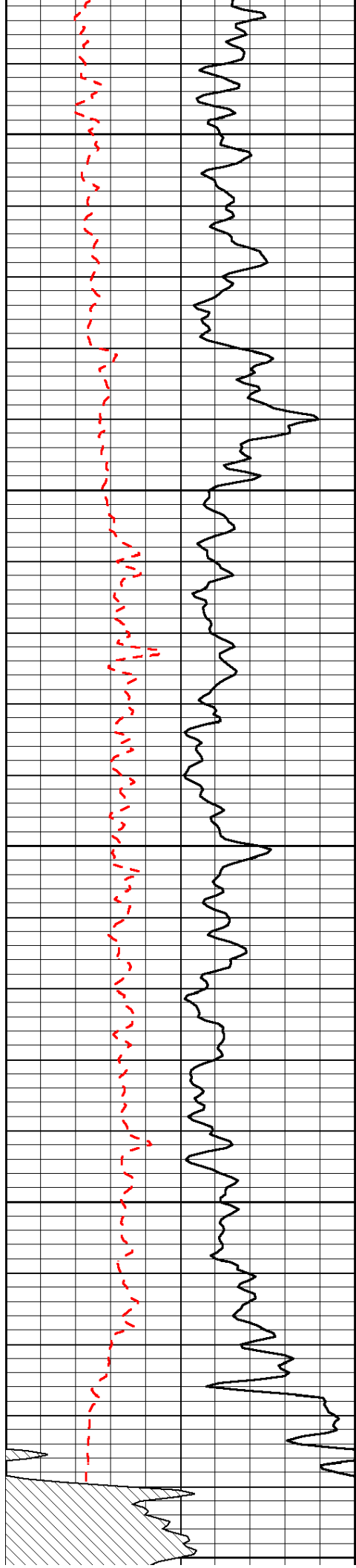
Database File: c:\warrior\data\murfin_mary ann #1-1\murfin_maryann_2_1hd.db
Dataset Pathname: DIL/murall
Presentation Format: sonic
Dataset Creation: Thu Aug 08 15:57:03 2013
Charted by: Depth in Feet scaled 1:240

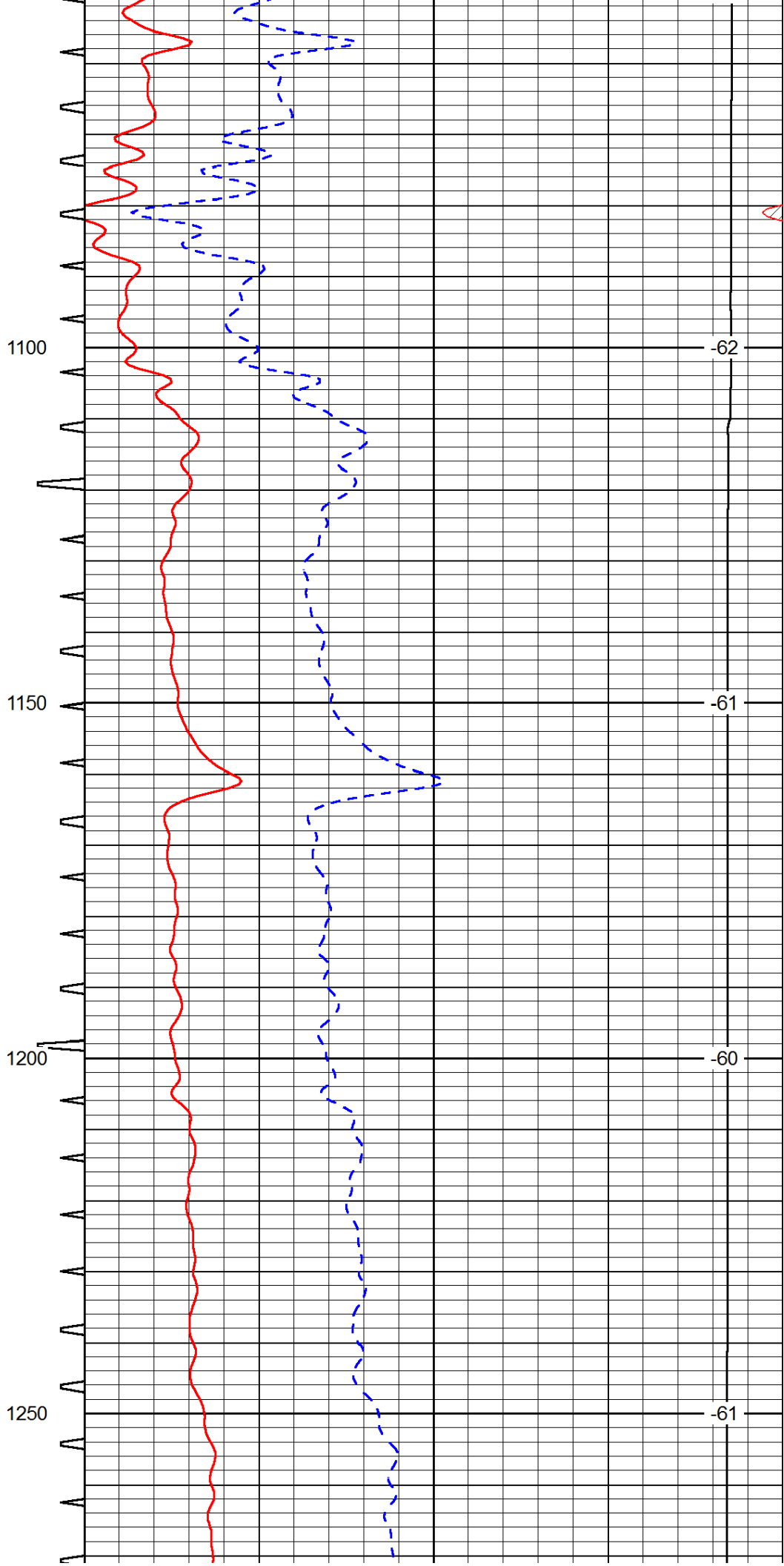
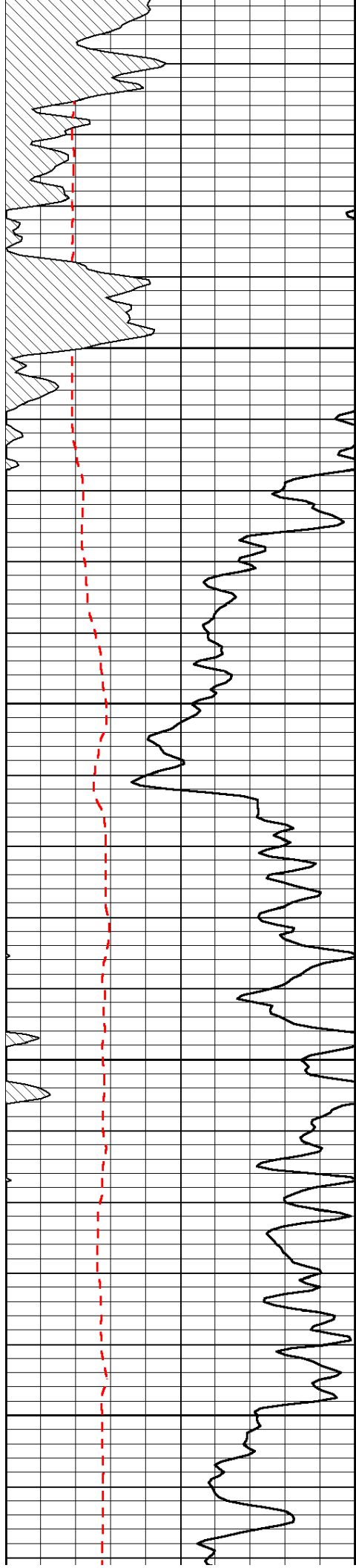
Charted by:		Depth in Feet scaled 1:2.16					
0	Gamma Ray	150	5	0	140	Delta Time (usec/ft)	40
150	Gamma Ray	300			30	SPOR	-10
6	Caliper (GAPI)	16			15000	LTEN (lb)	0
							LSPD

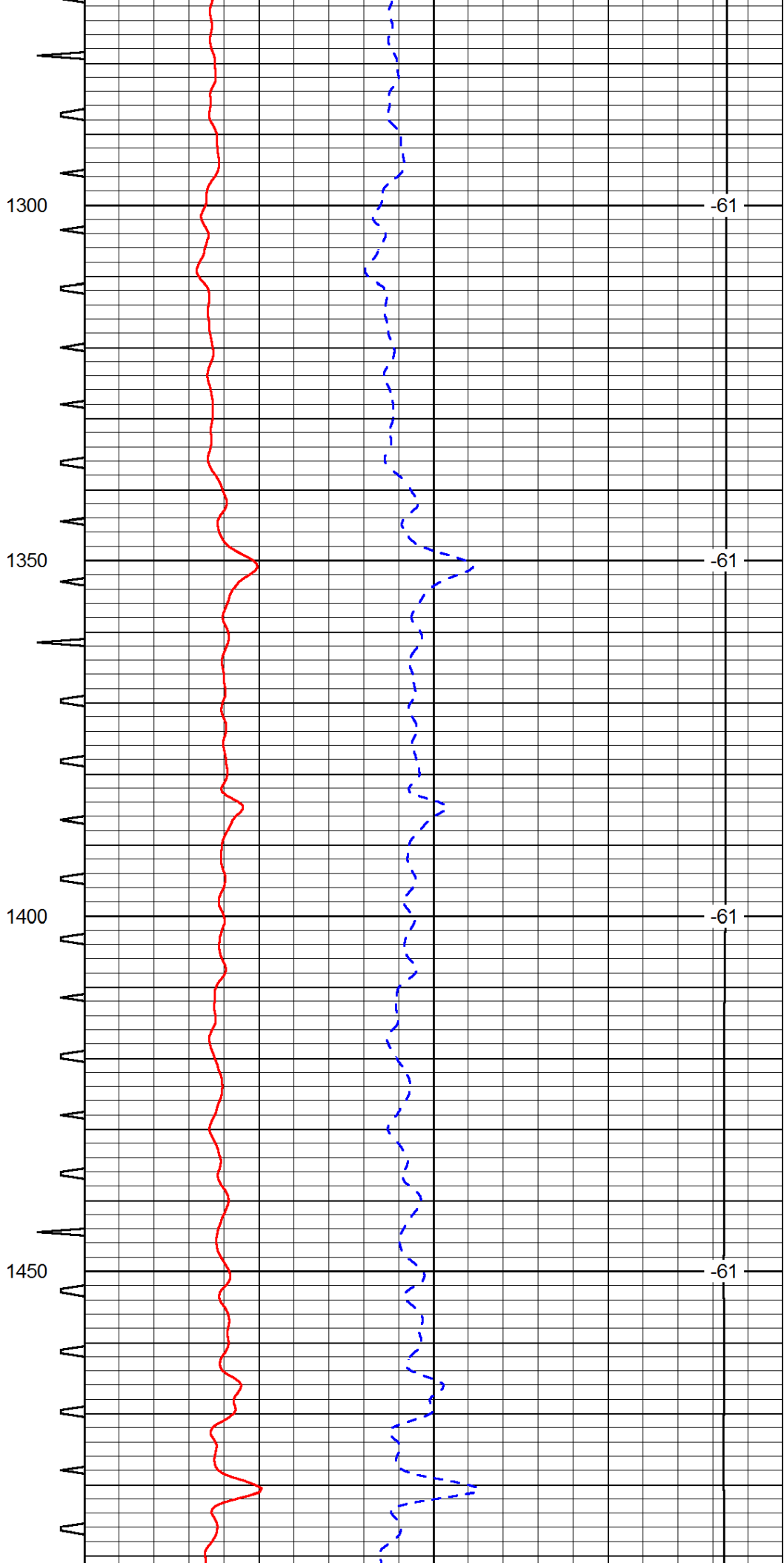
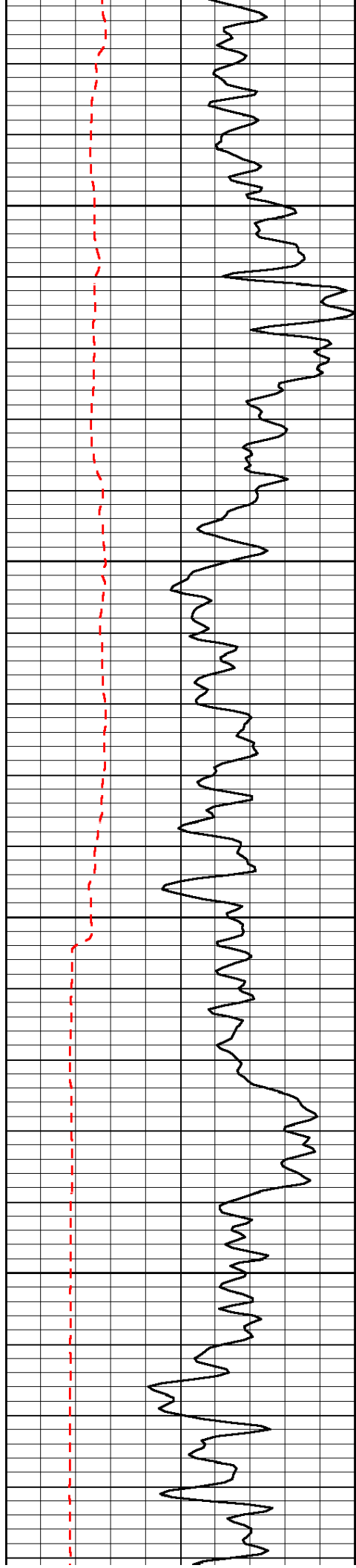


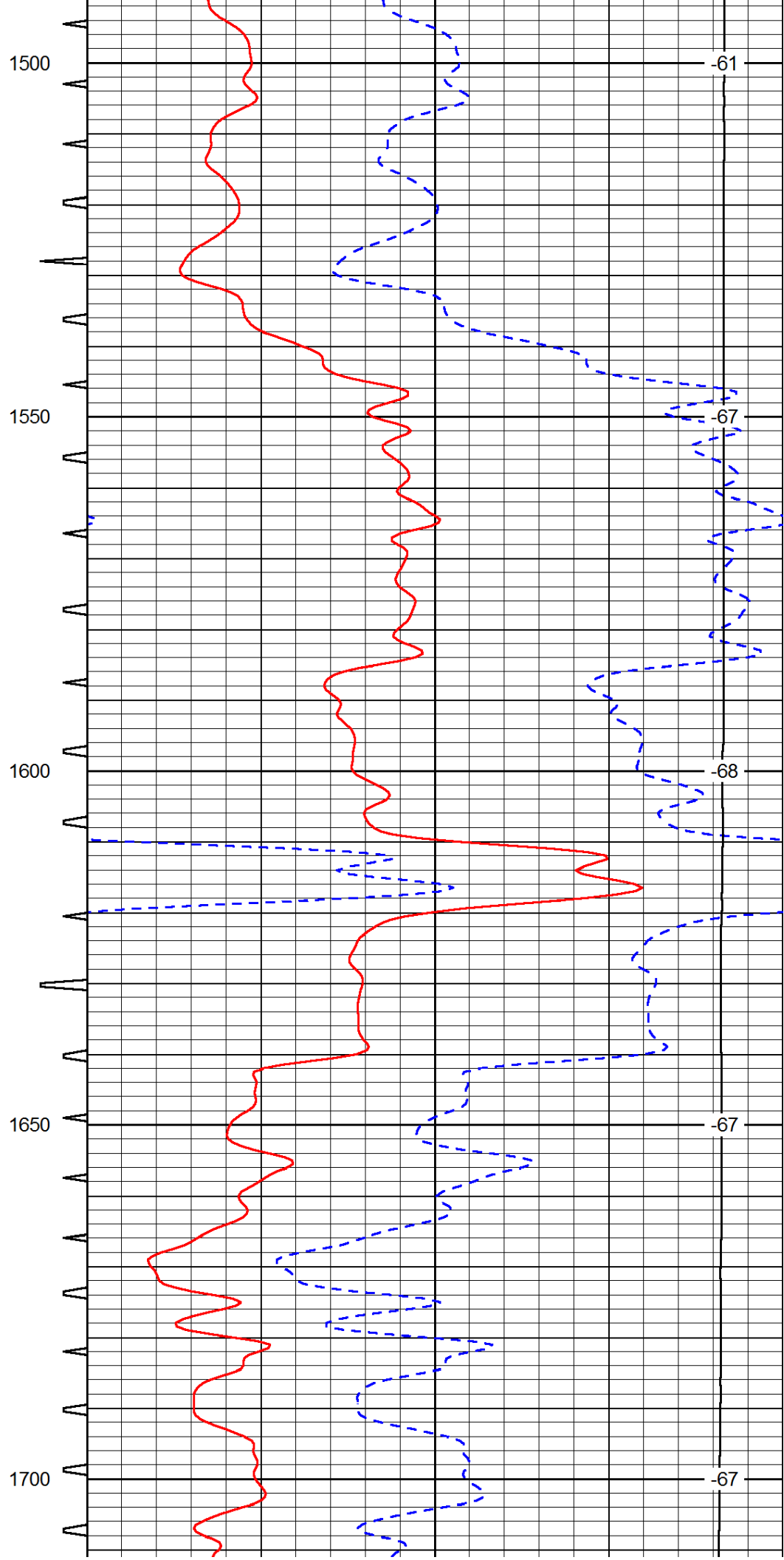
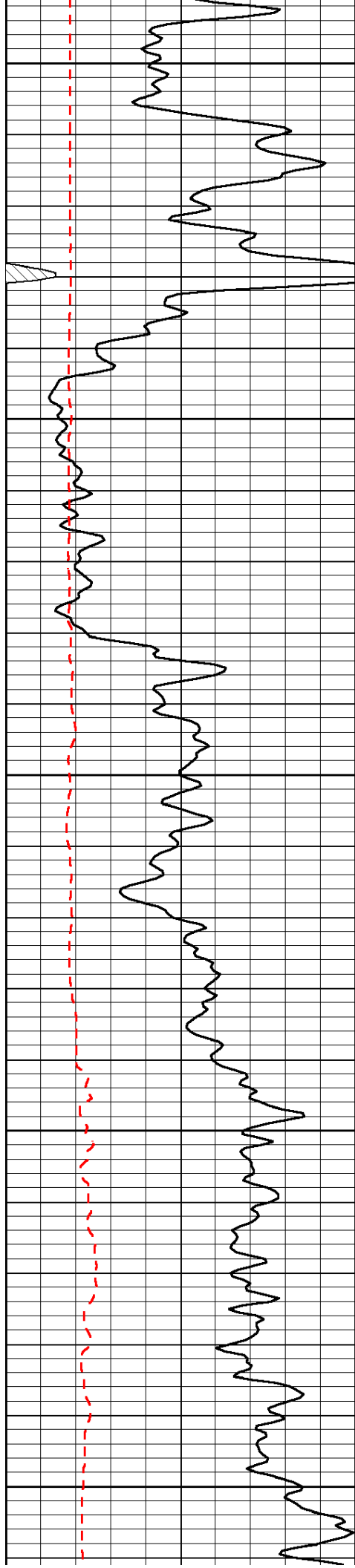


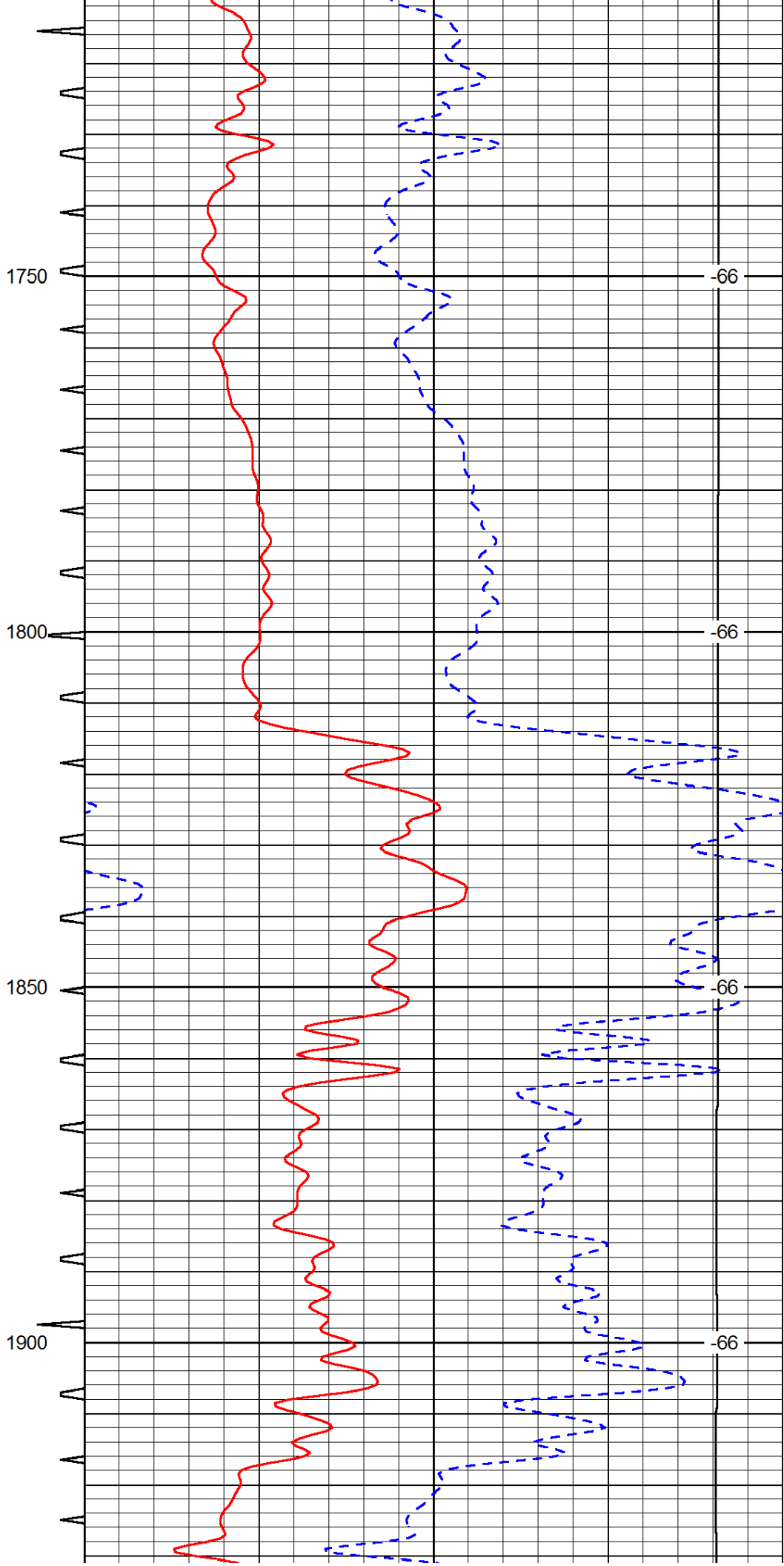
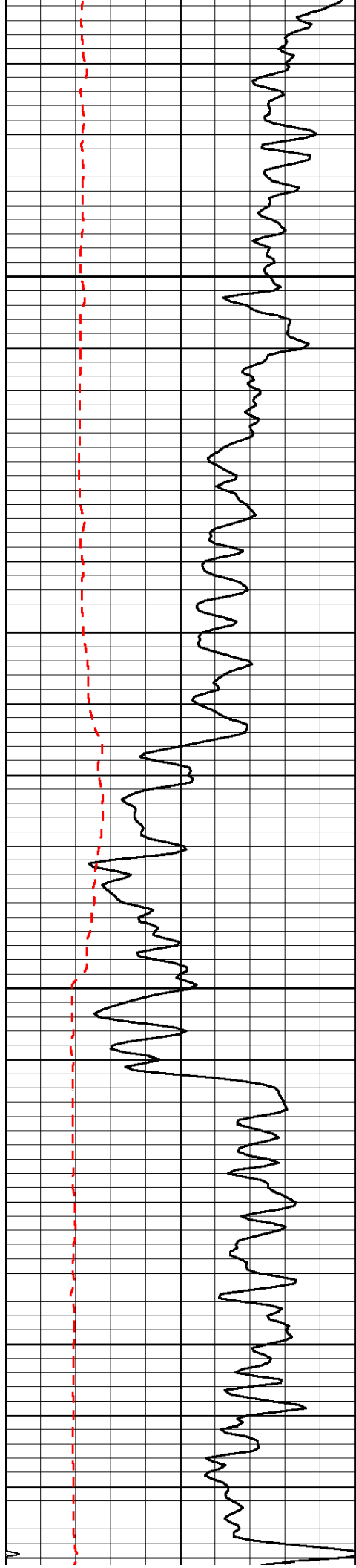


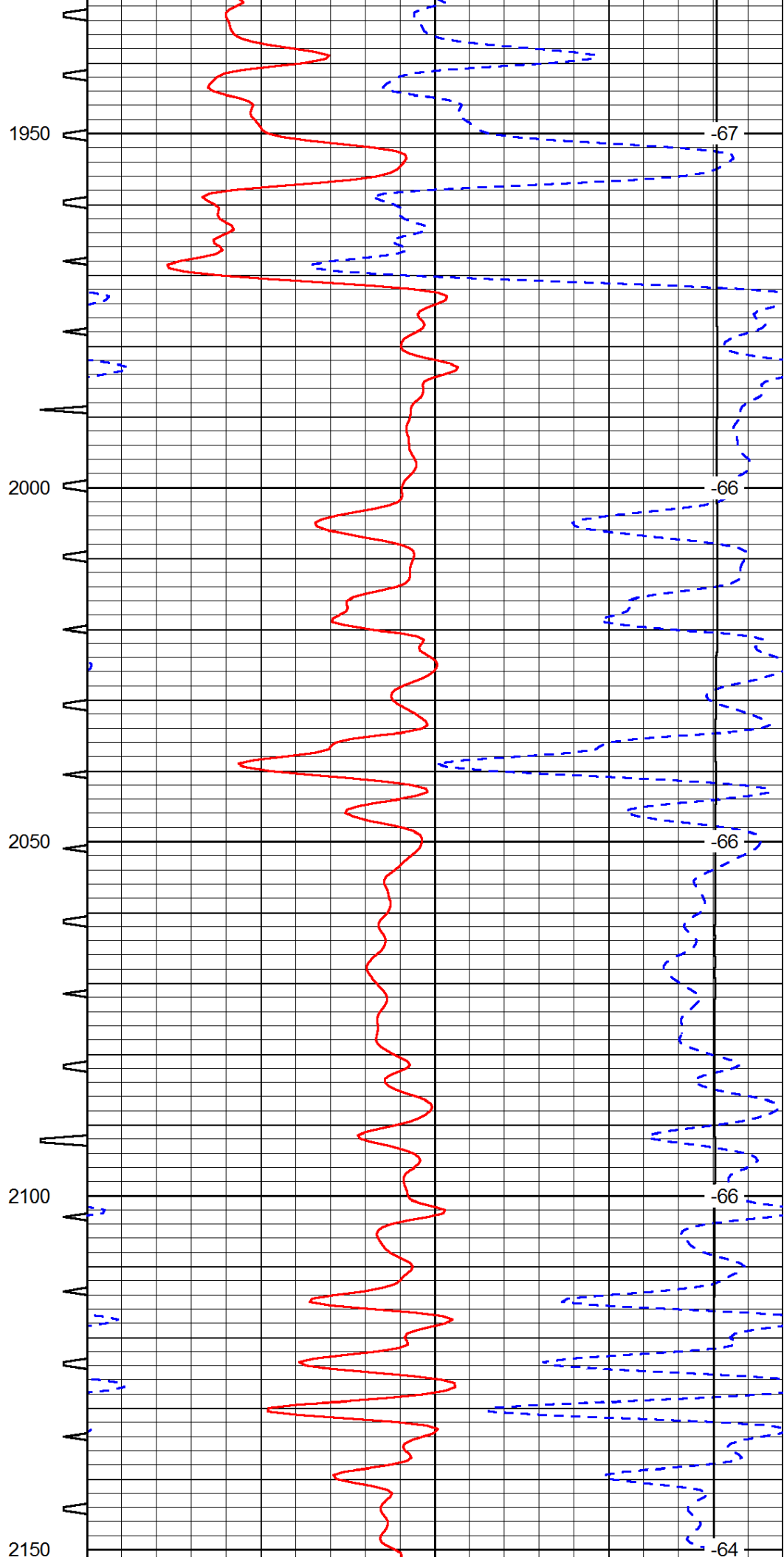


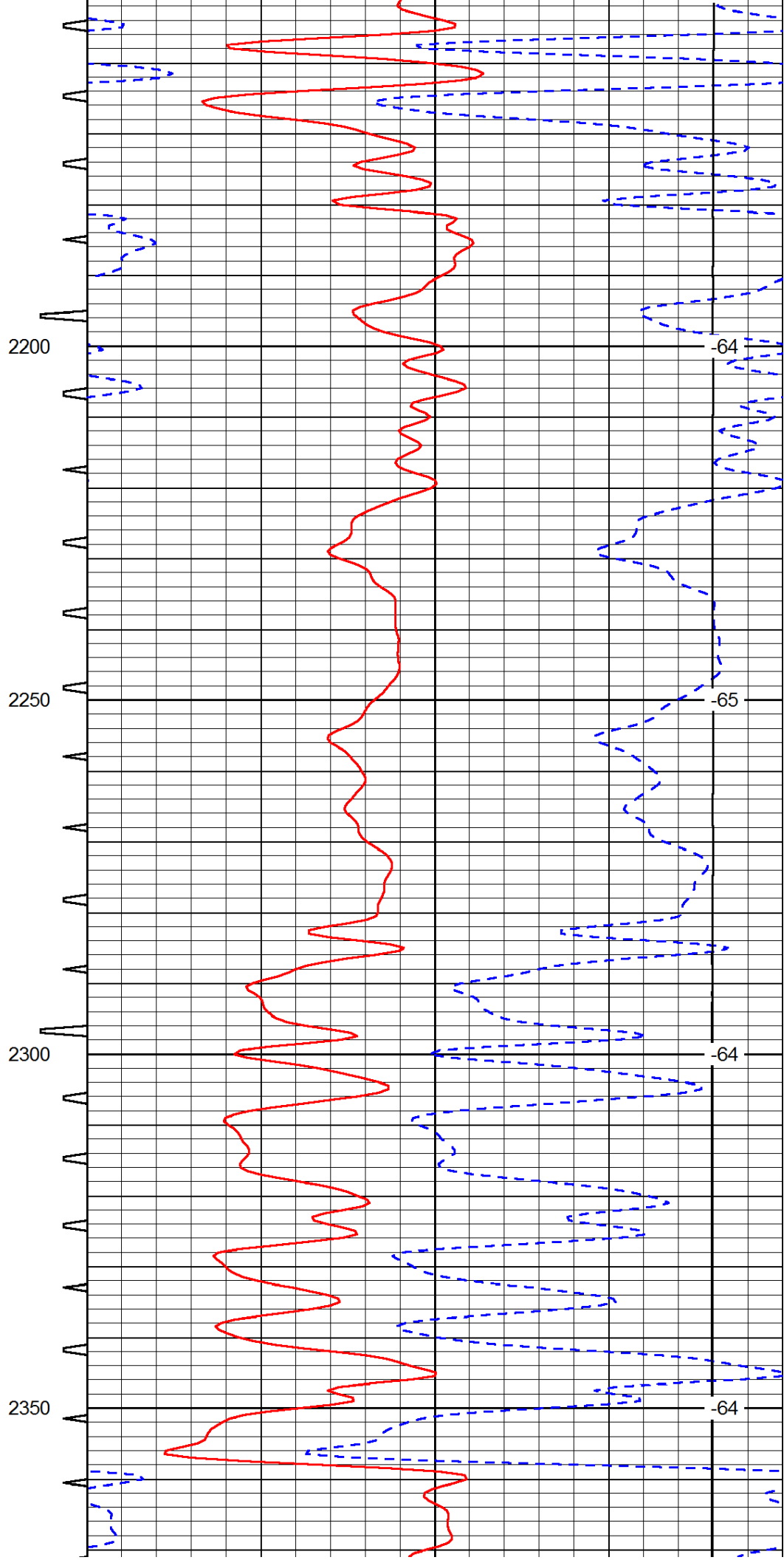
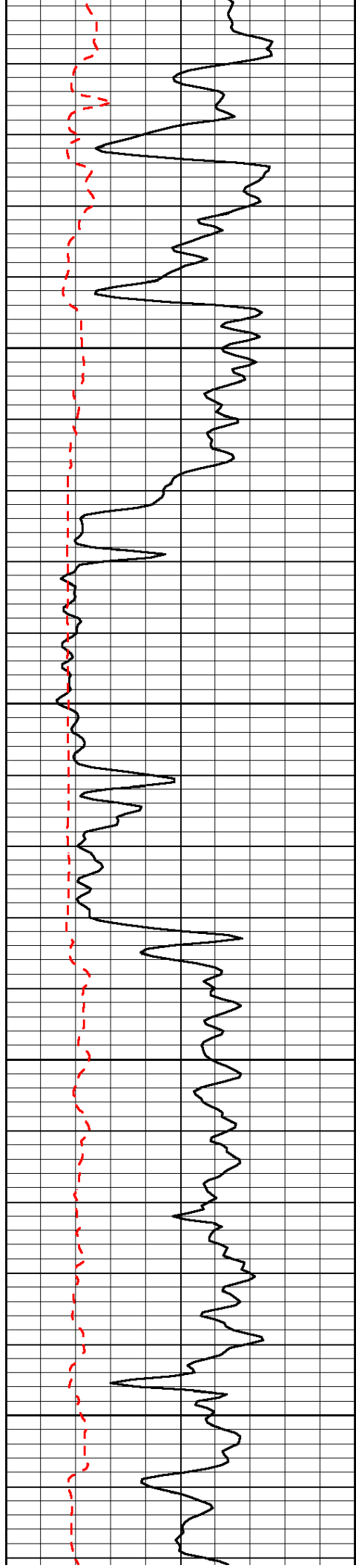


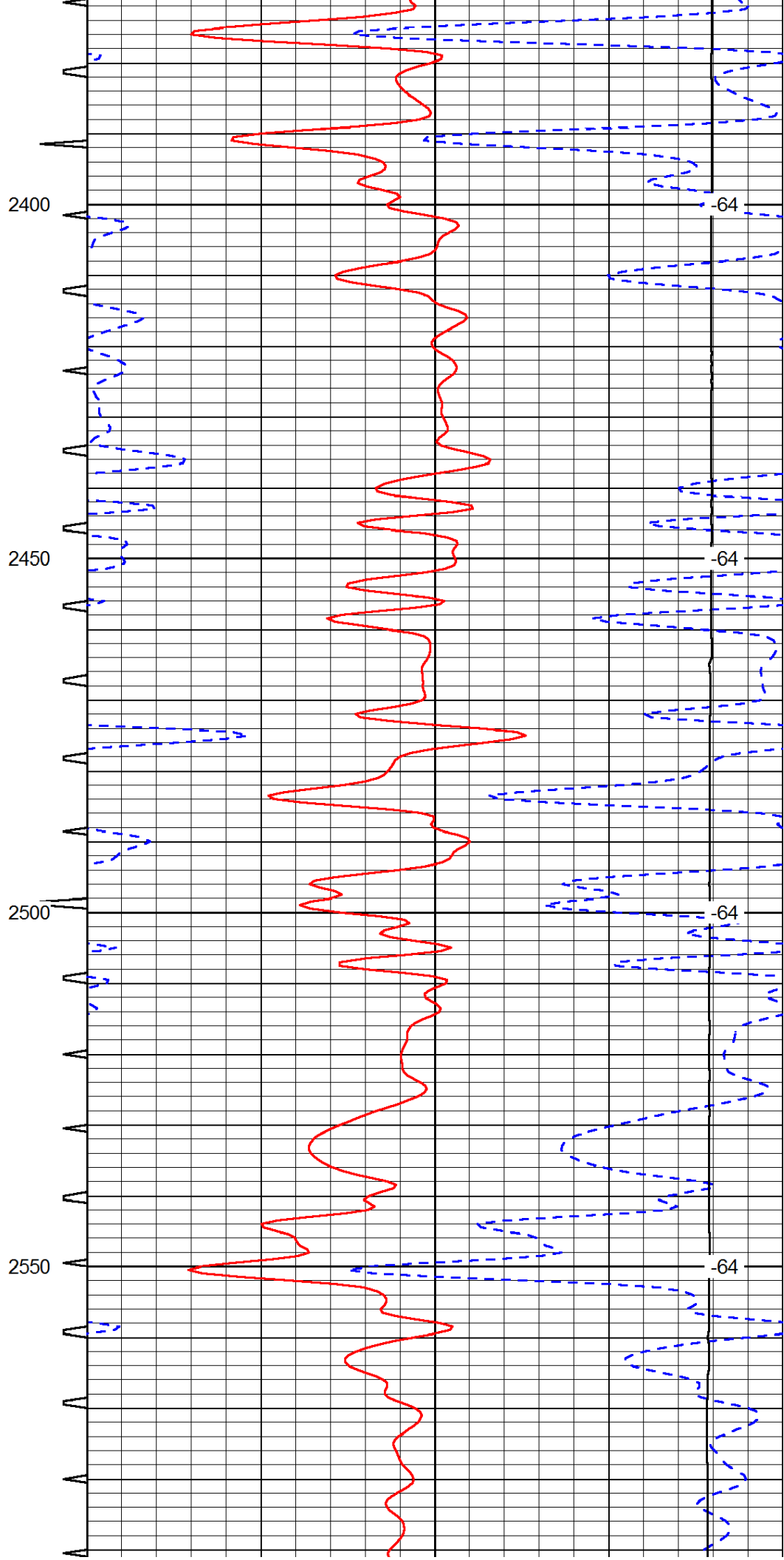
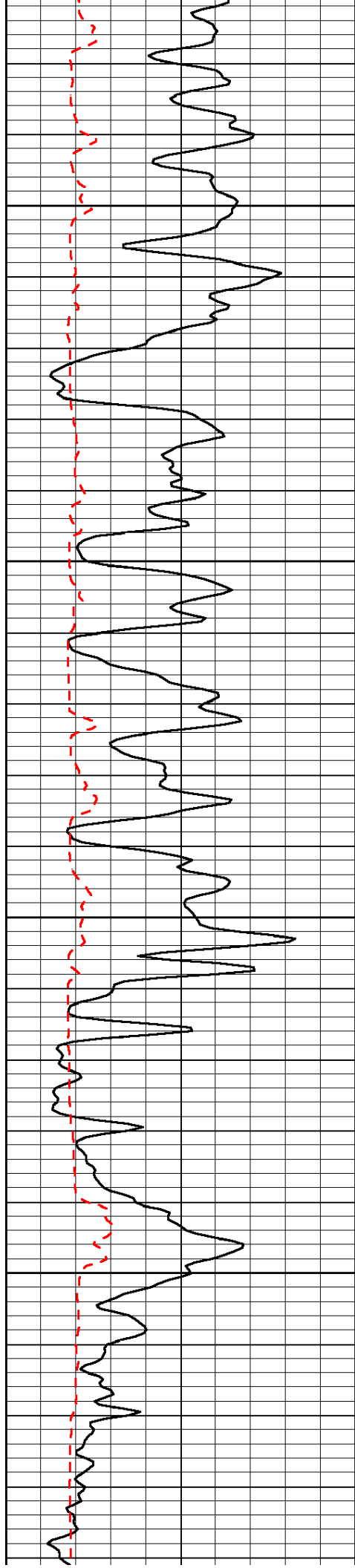


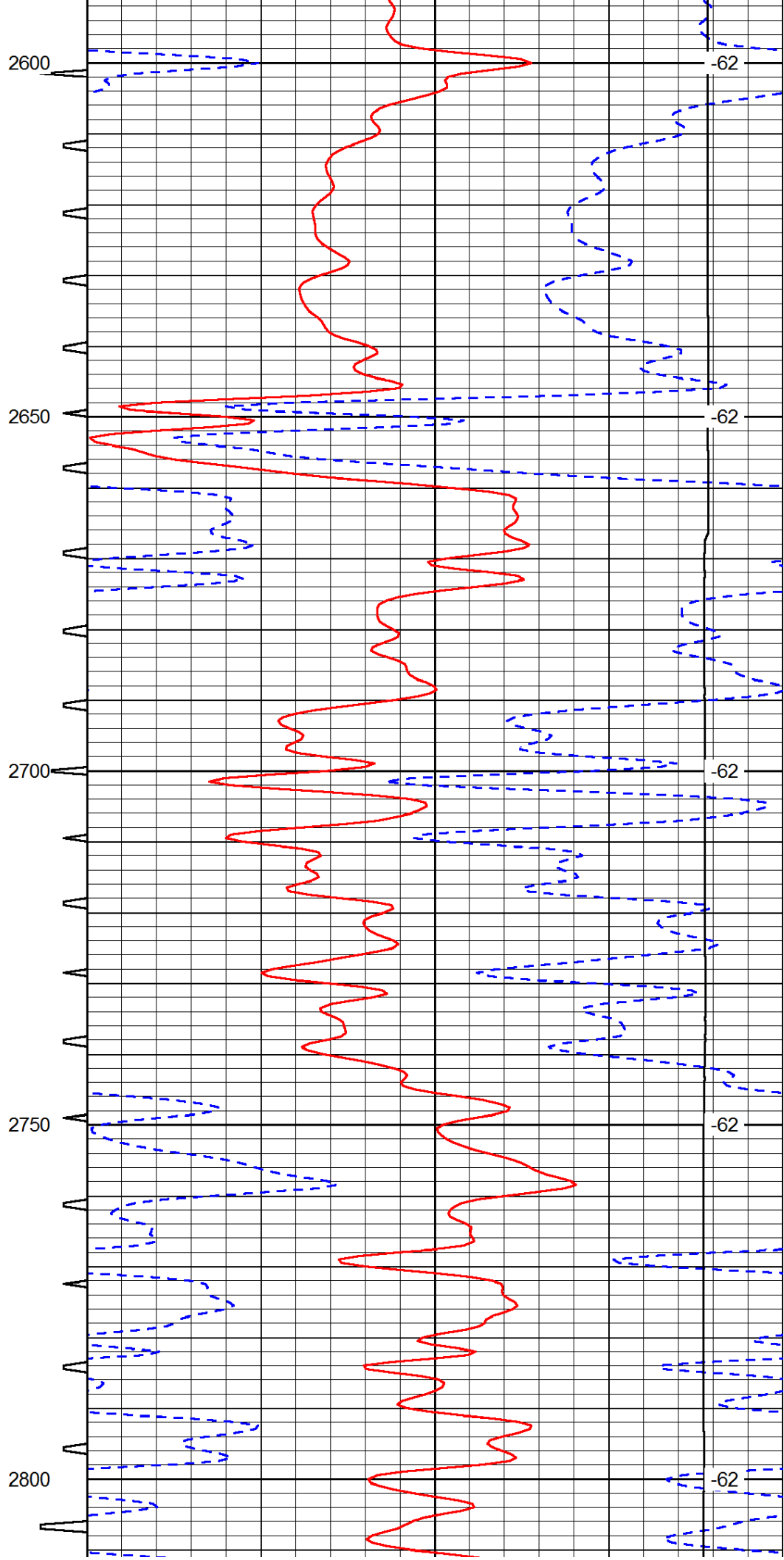
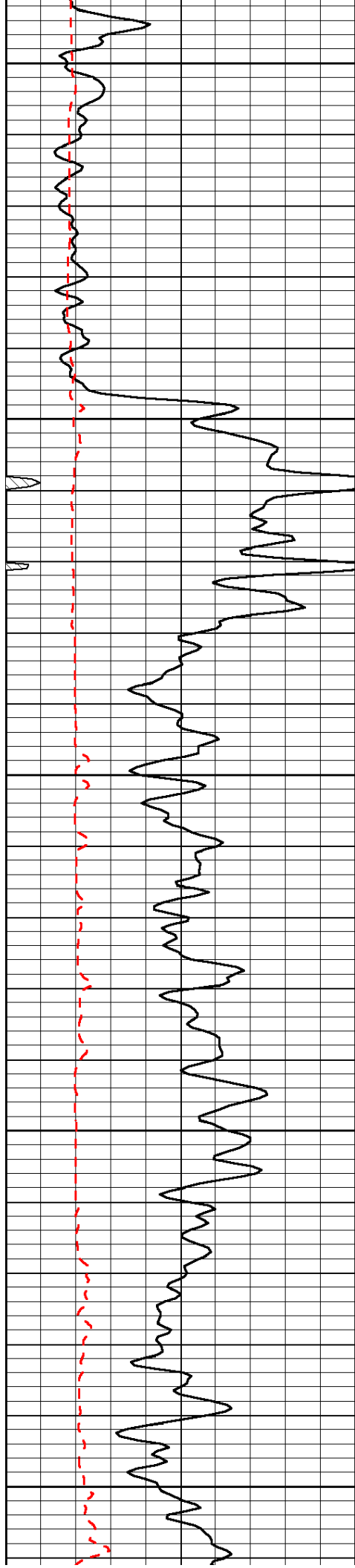


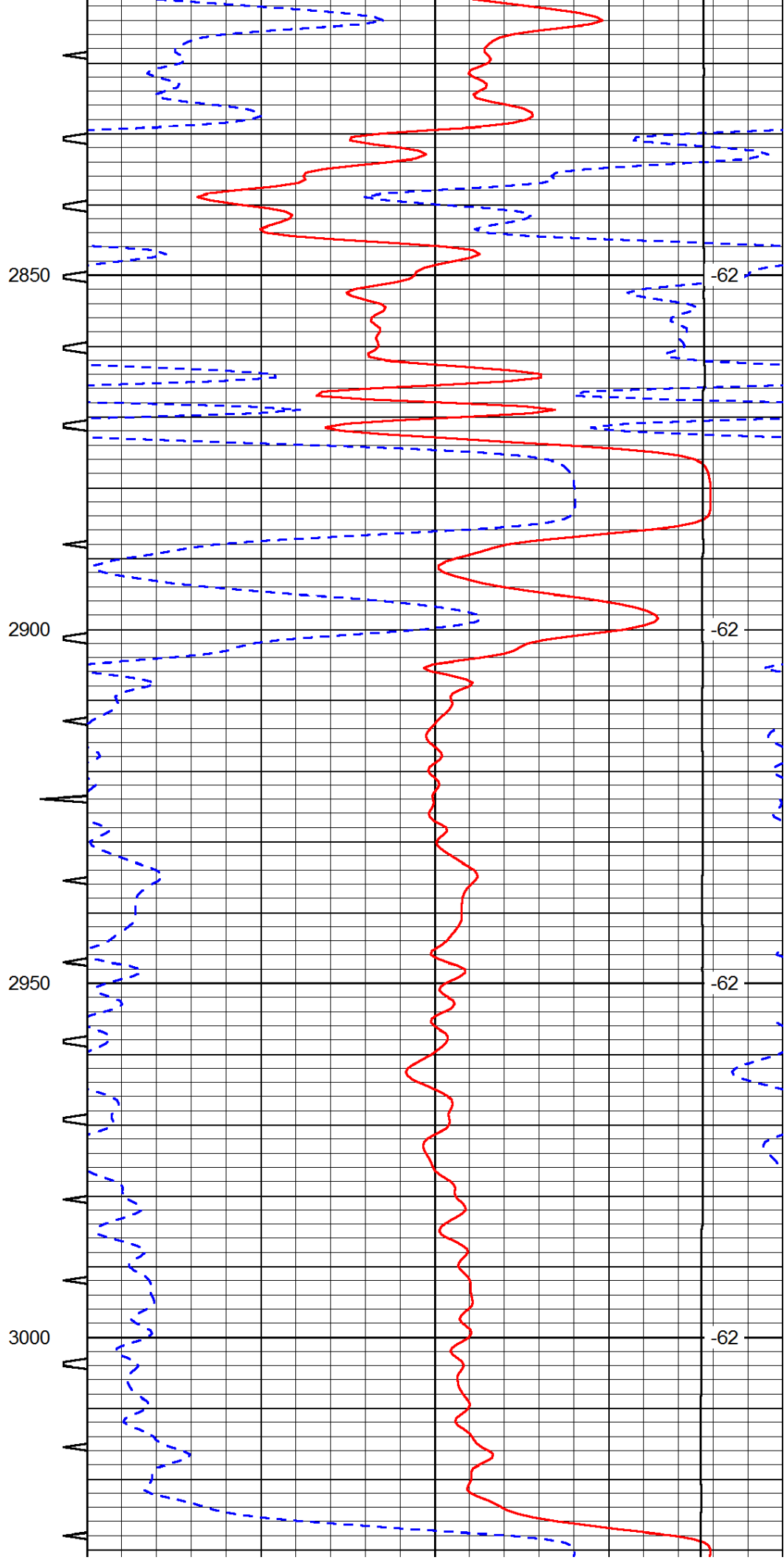
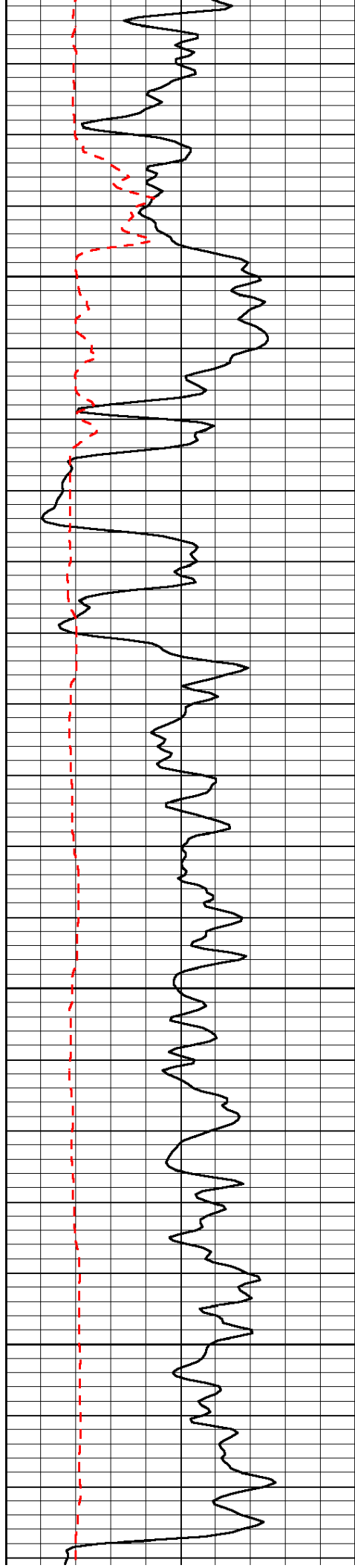


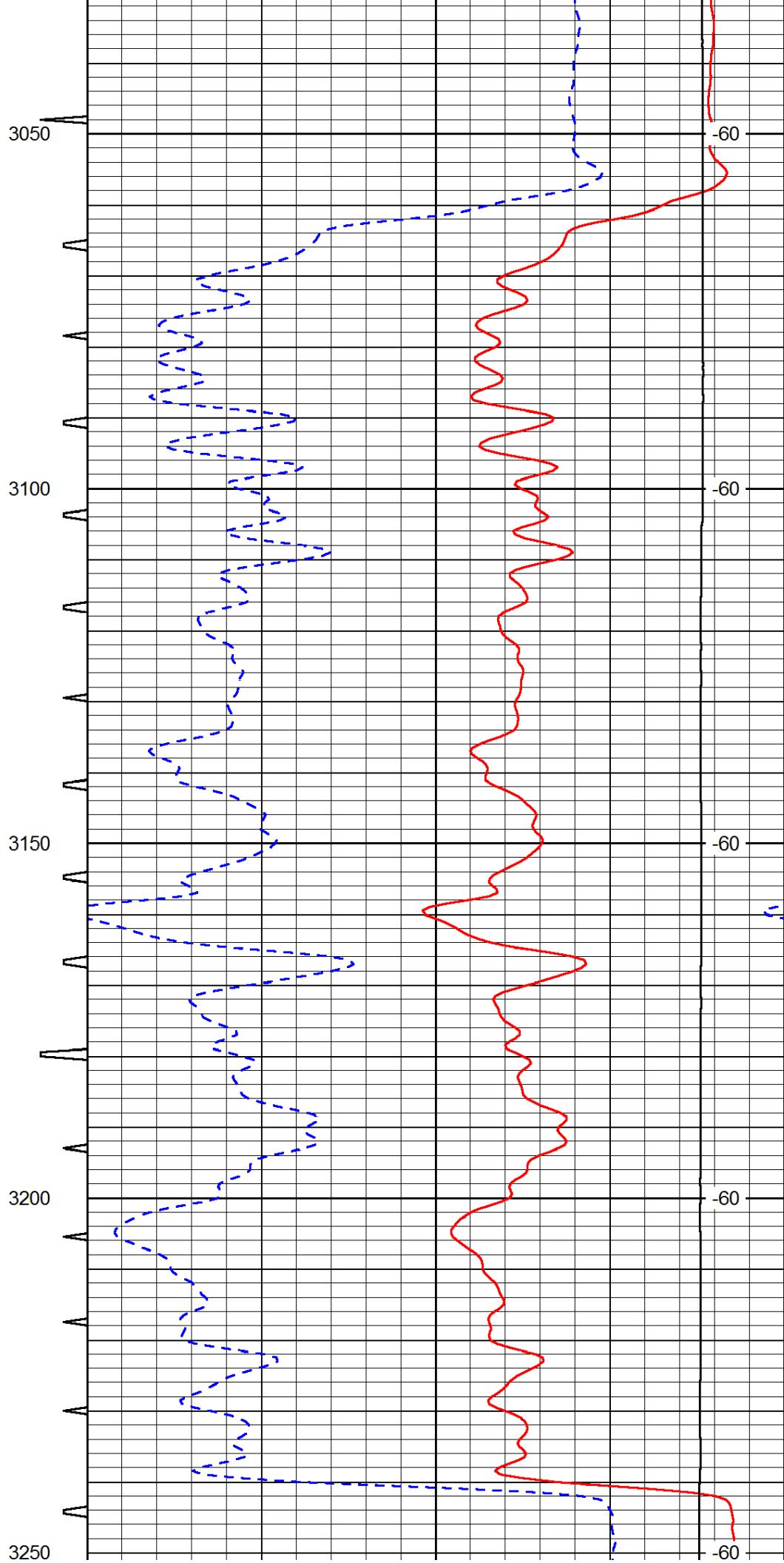
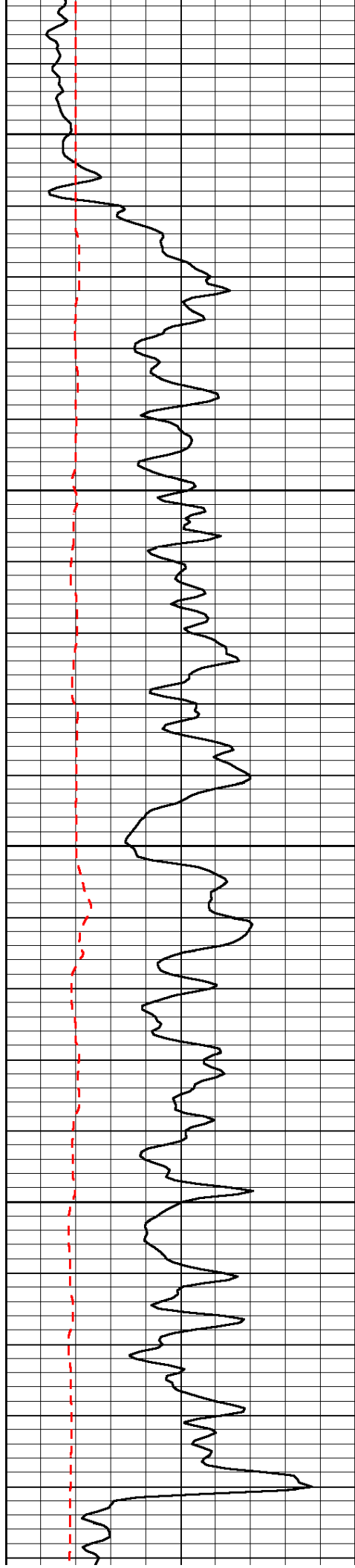


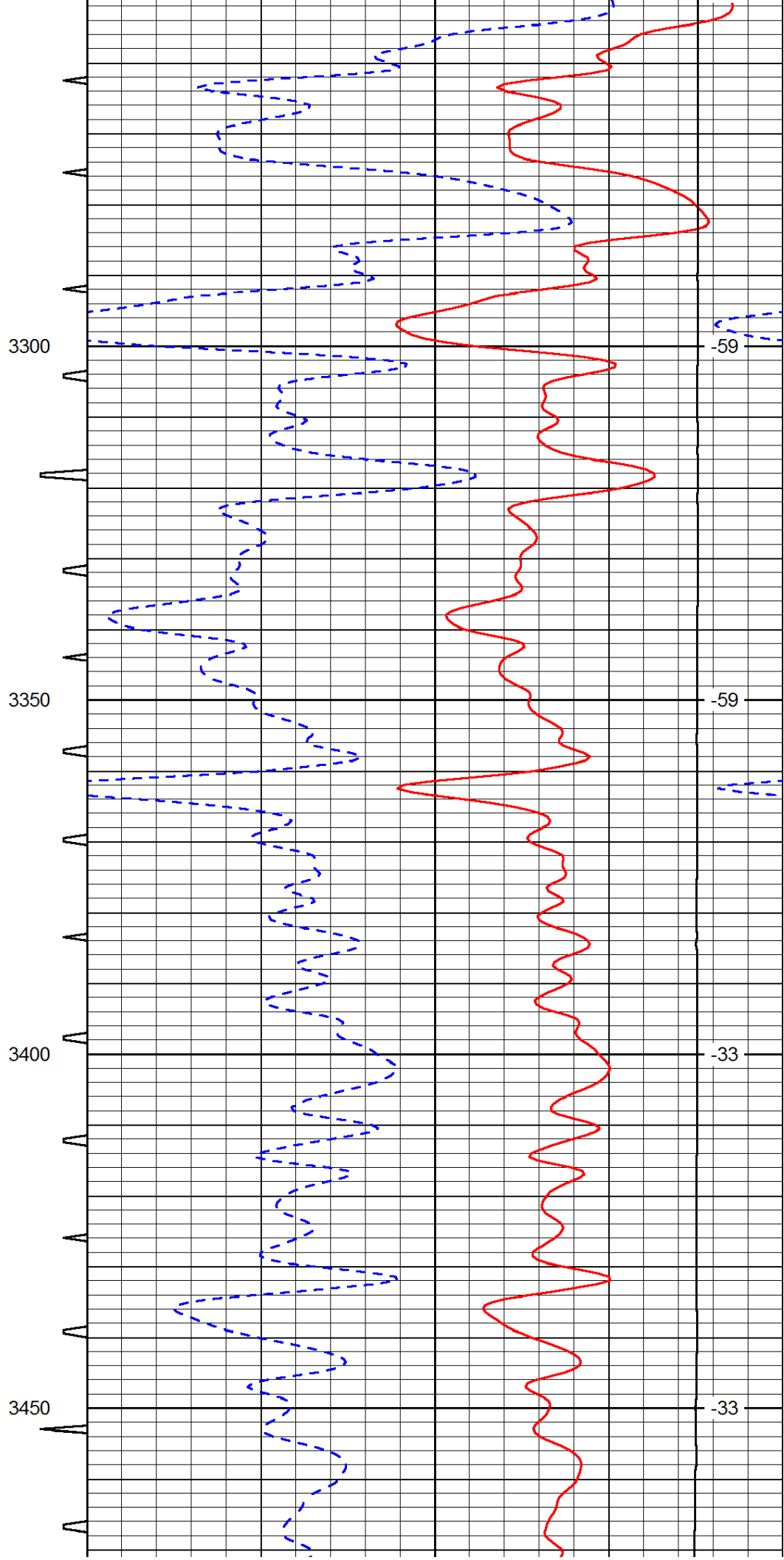
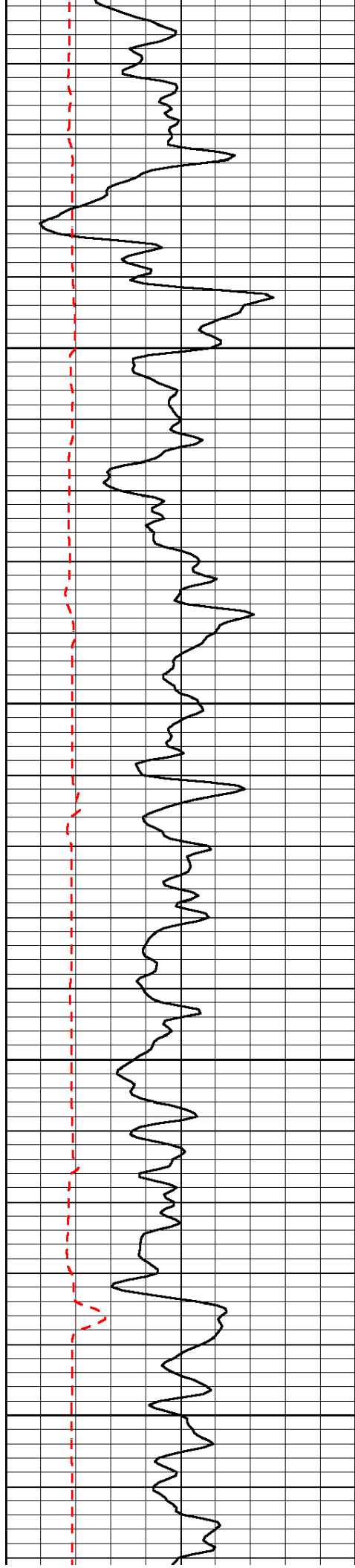


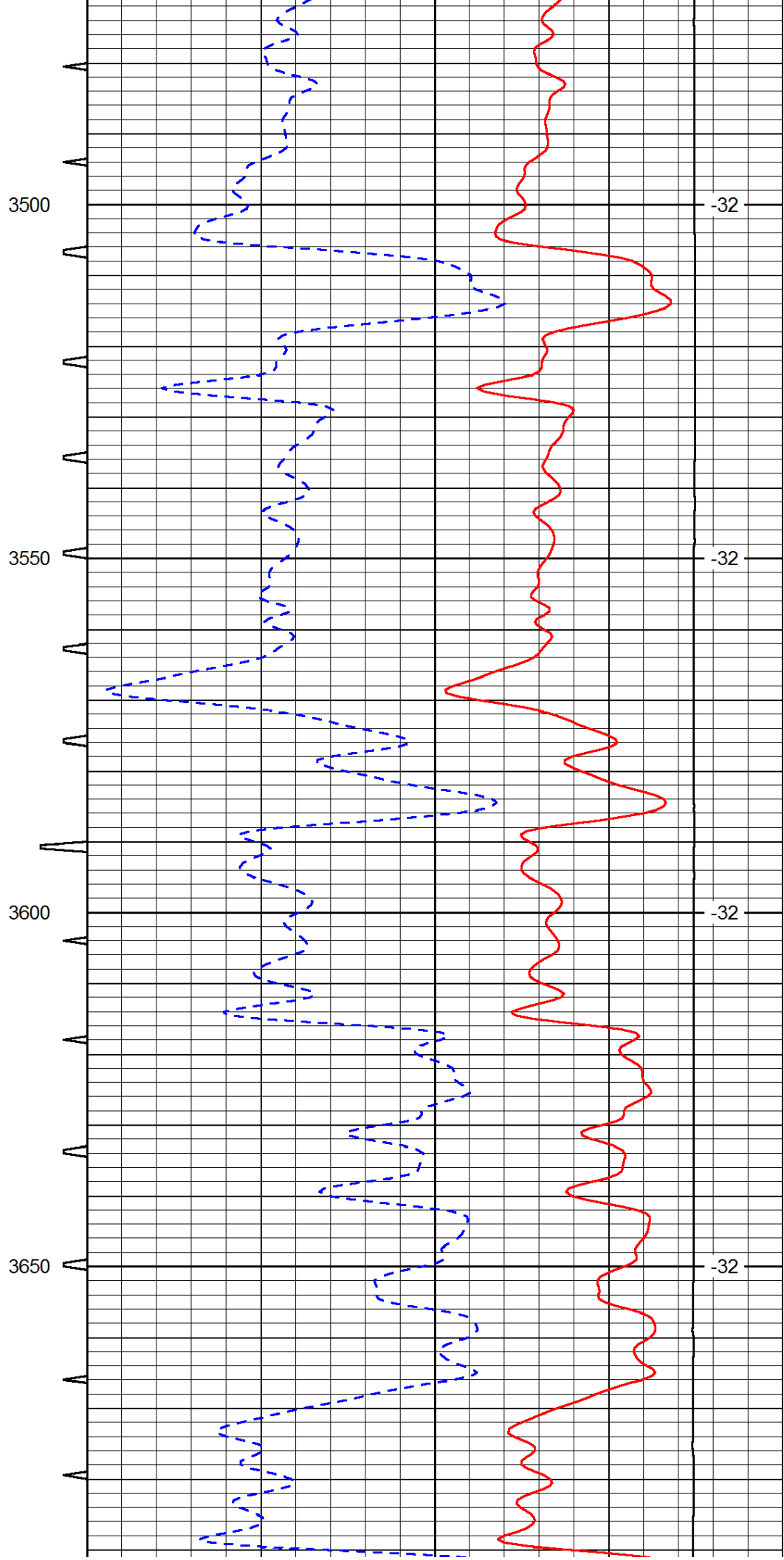
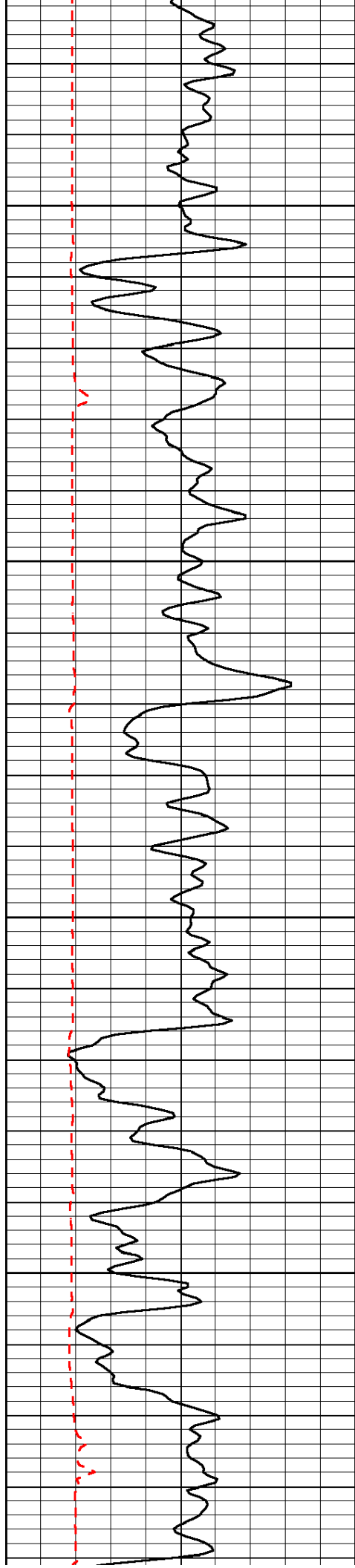


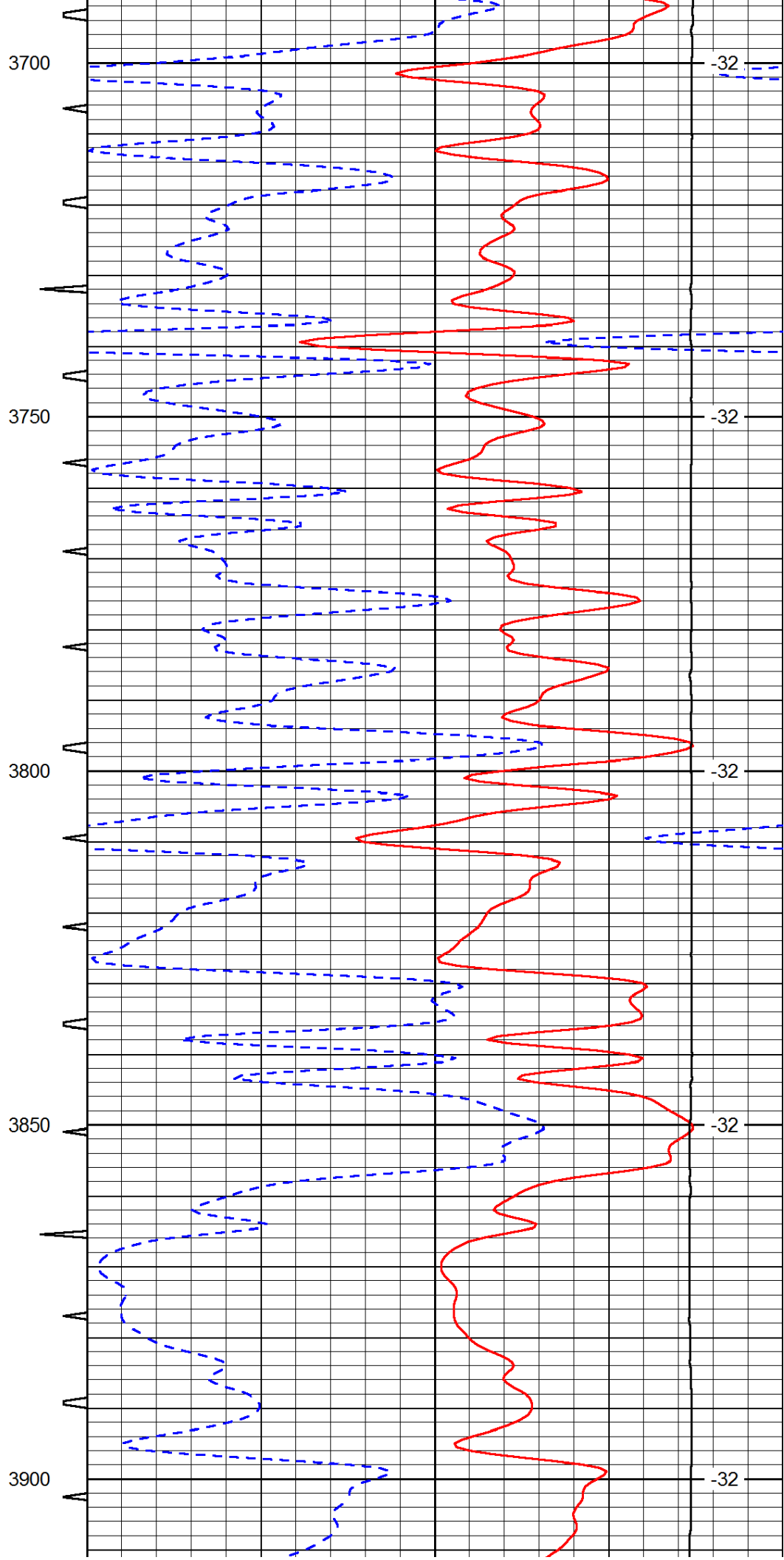
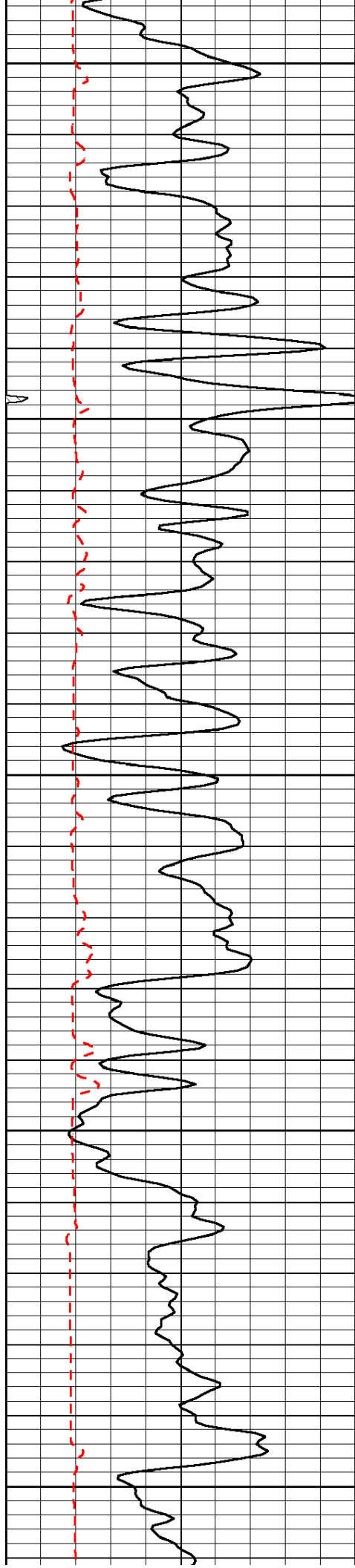


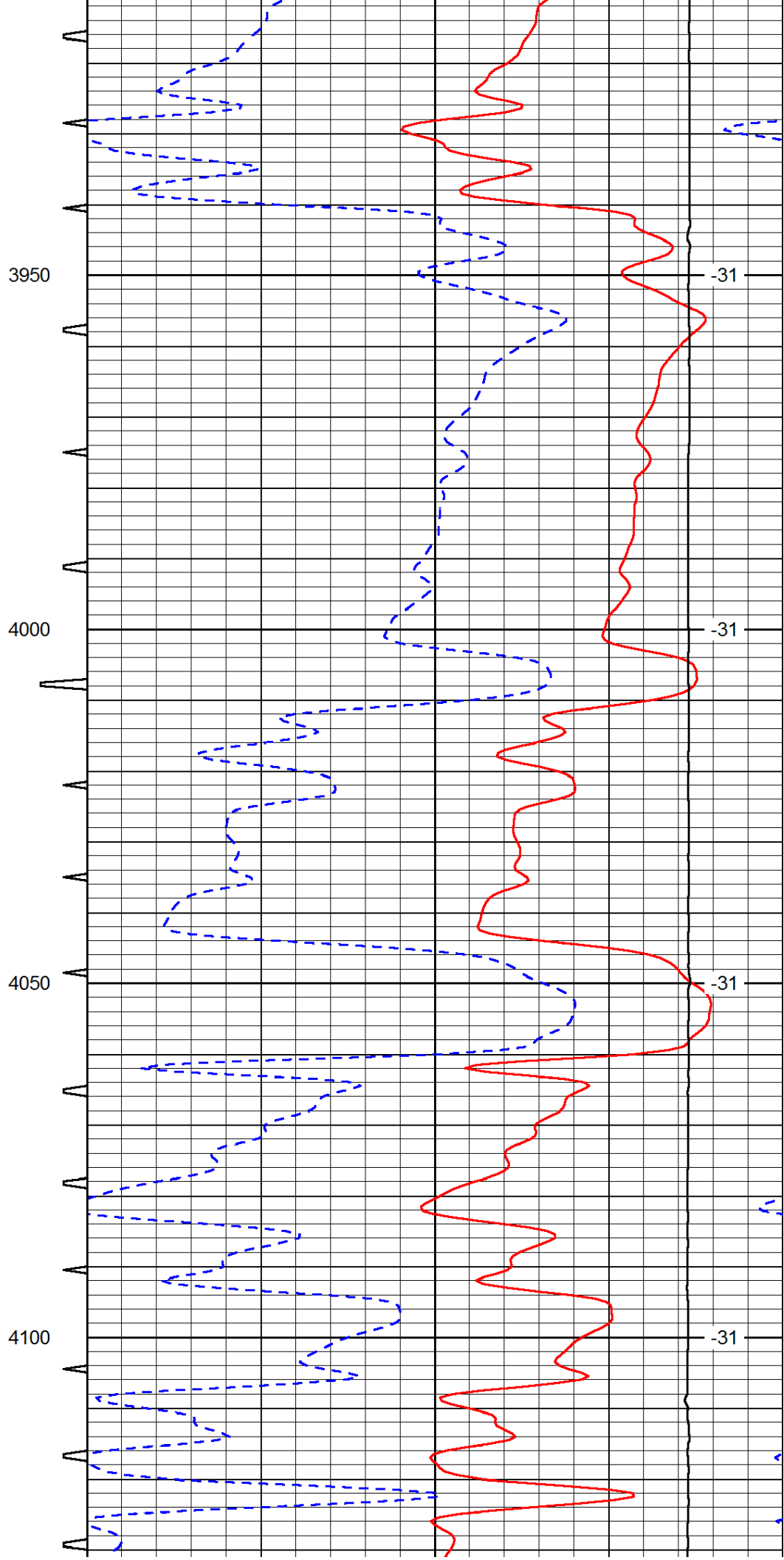
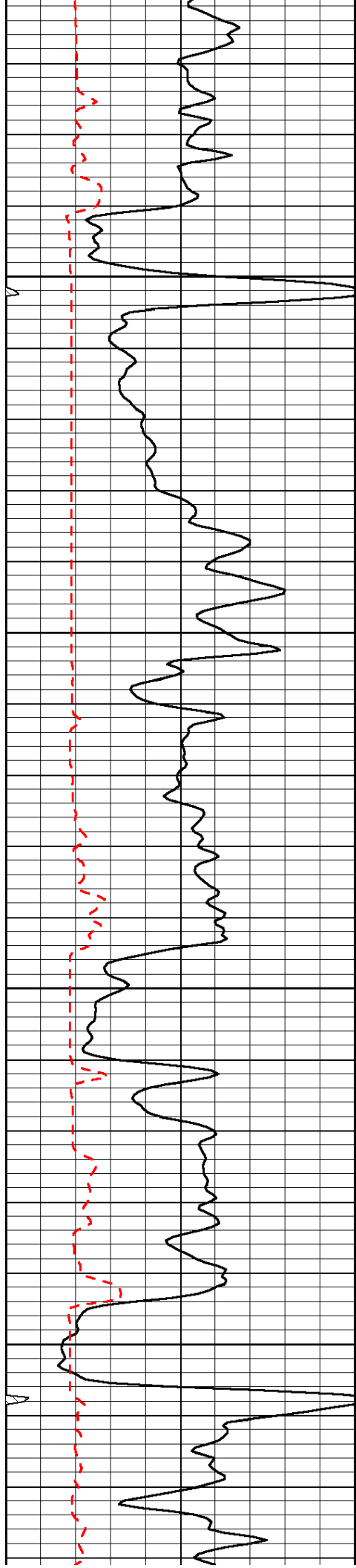


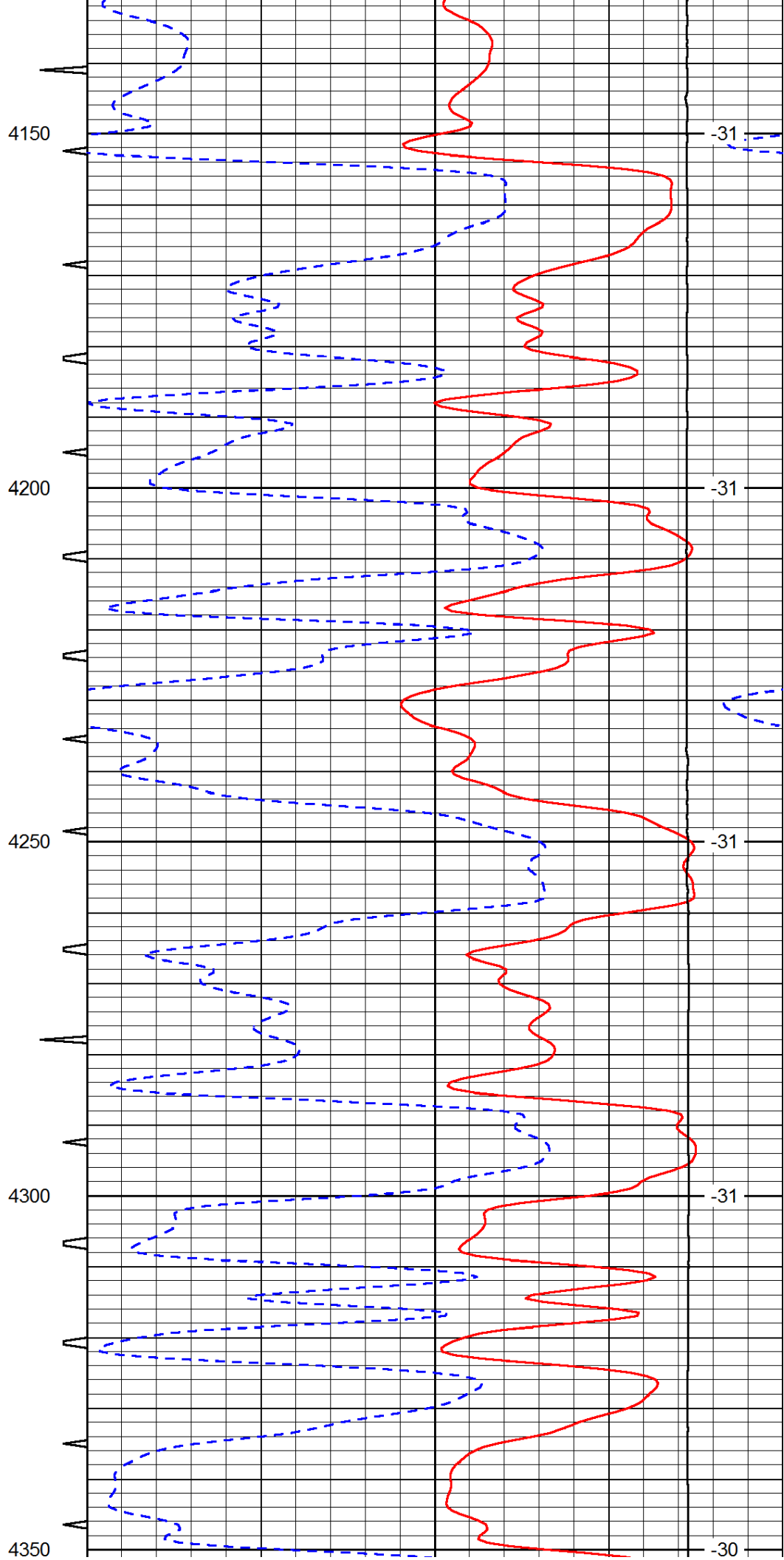
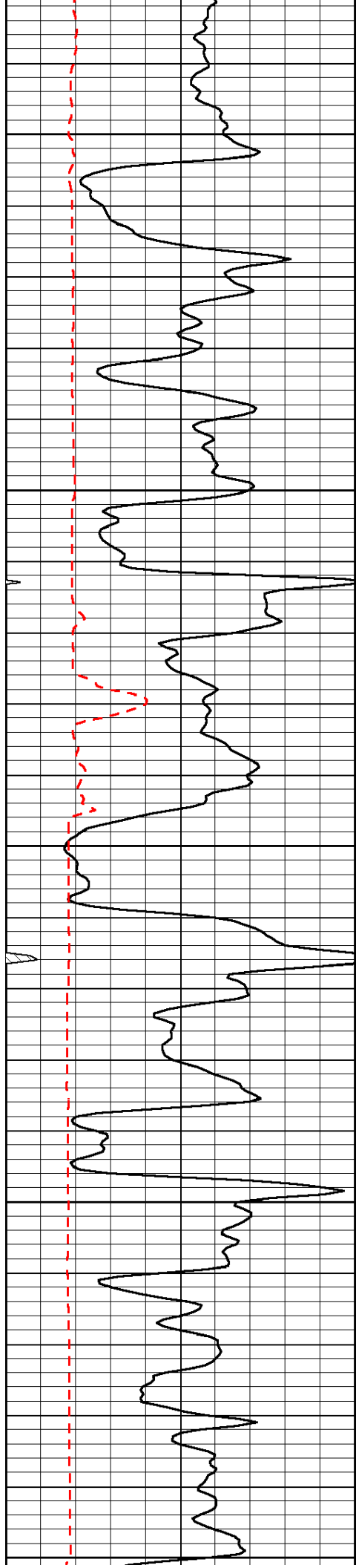


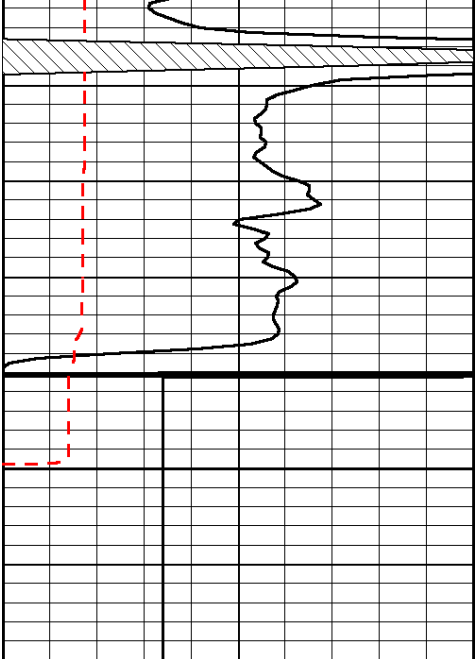






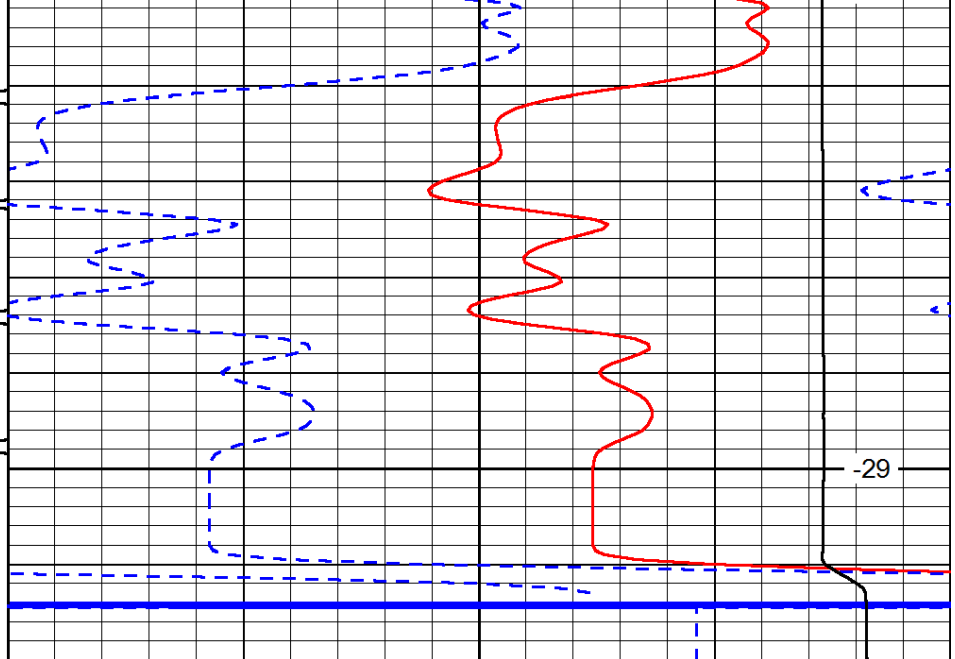






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Sonic Int
4400



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