



**Borehole Compensated  
Sonic Log**

**DIGITAL LOG (785) 625-3858**

API No. 15-065-23,600-00-00	Company <b>H &amp; C Oil Operating, Inc.</b>	Location <b>1650' FSL &amp; 660' FEL</b>	Other Services CNL/CDL MEL/DIL
Well <b>Walters No.32-1</b>	County <b>Graham</b>		
Field <b>Wildcat</b>	State <b>Kansas</b>		
Sec: <b>32</b>	Twp: <b>6S</b>	Rge: <b>23W</b>	Elevation K.B. 2481 D.F. 2476 G.L. 2476
Permanent Datum Log Measured From Drilling Measured From	Ground Level Kelly Bushing Kelly Bushing	Elevation 2476 5 Ft. Above Perm. Datum	

Date	12/12/2009
Run Number	Two
Type Log	BHC Sonic
Depth Driller	3972
Depth Logger	3975
Bottom Logged Interval	3964
Top Logged Interval	250
Type Fluid In Hole	Chemical
Salinity, PPM CL	1,800
Density	9.4
Level	Full
Max. Rec. Temp. F	118
Operating Rig Time	4 Hours
Equipment -- Location	17 Hays
Recorded By	C. Desaire
Witnessed By	Marc Downing

Run No	Bit	Borehole Record		Casing Record	
		From	To	From	To
1	12.25	00	294	8.625	24#
2	7.875	294	3972		

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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.

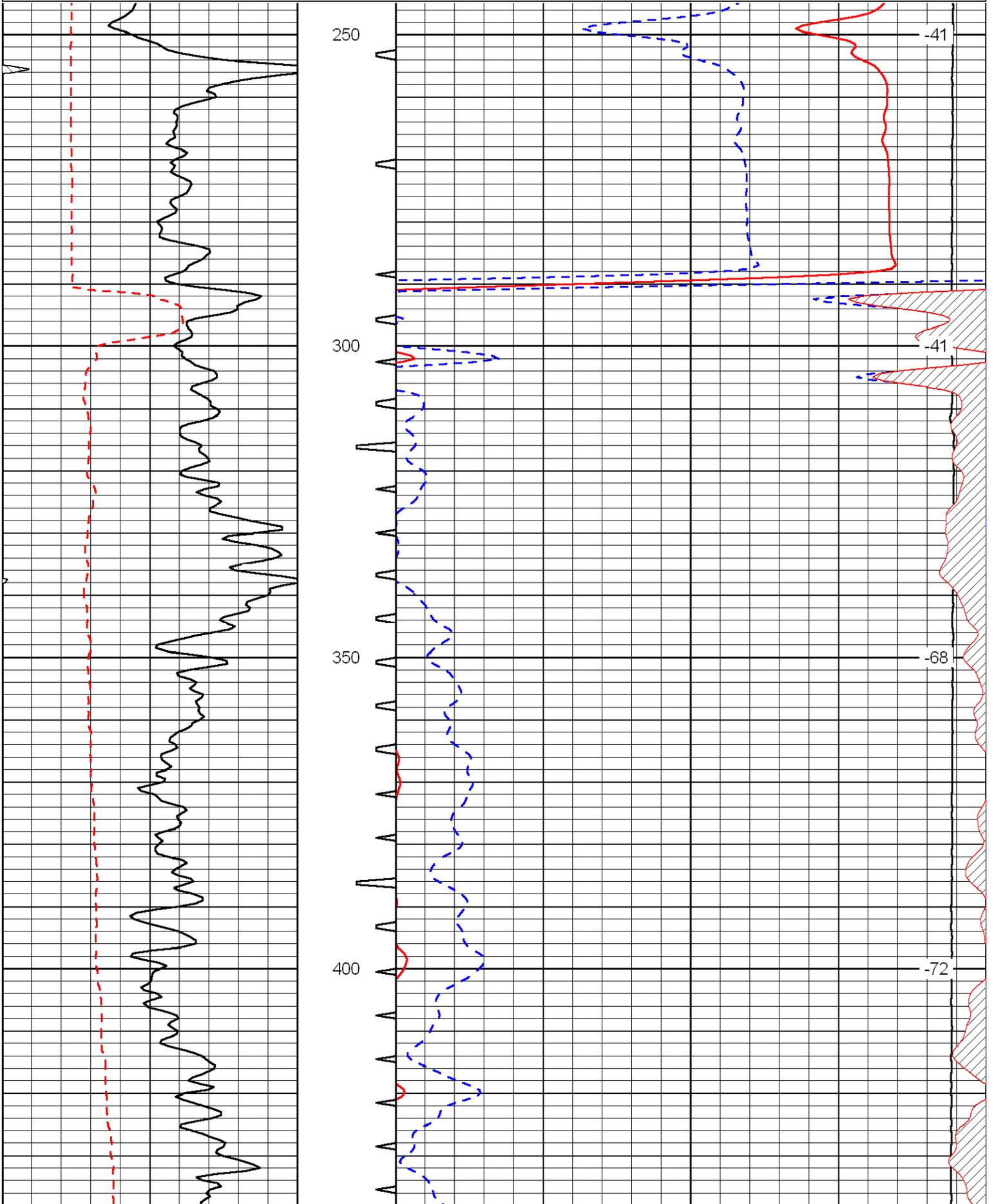
**Comments**

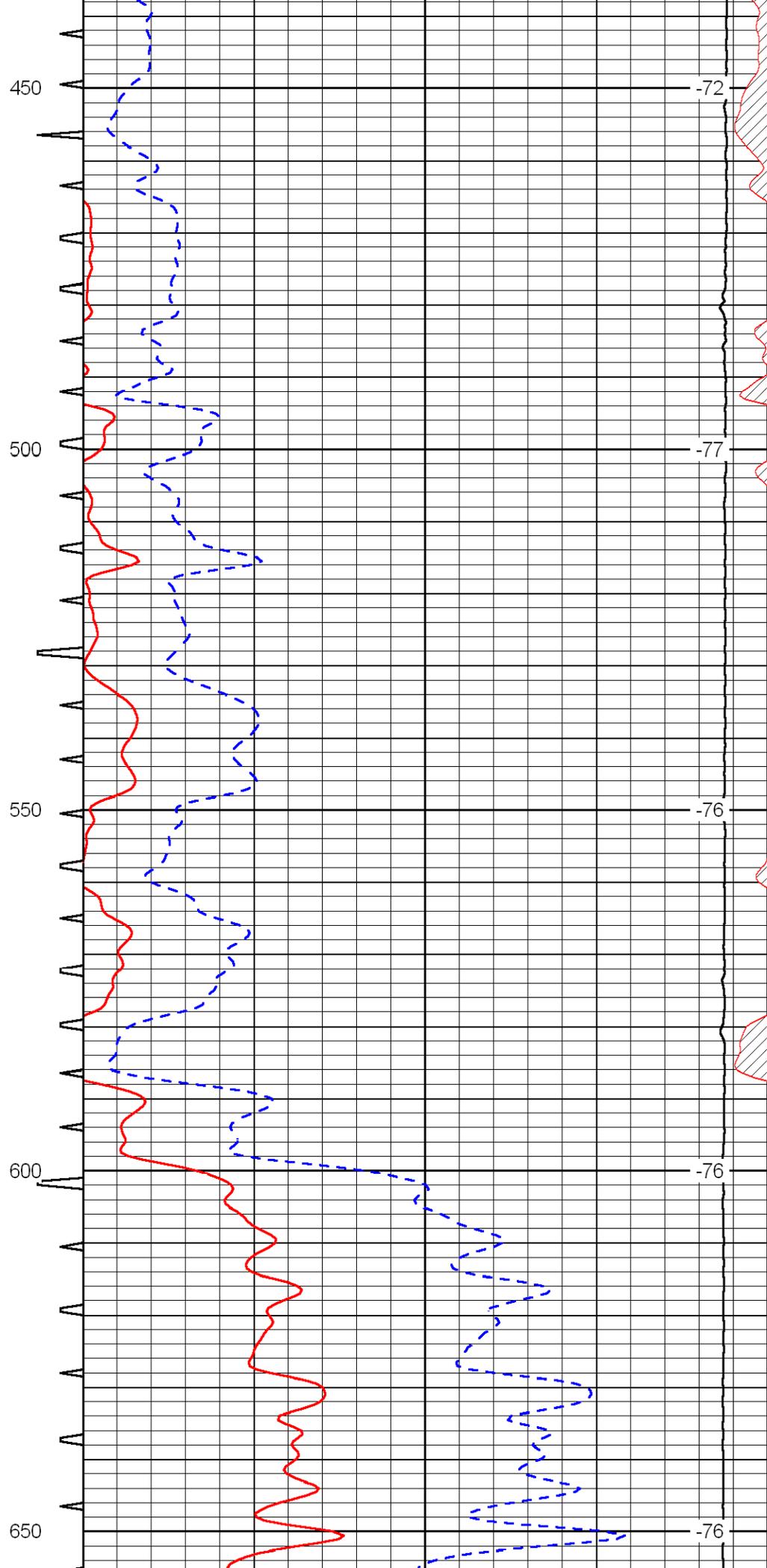
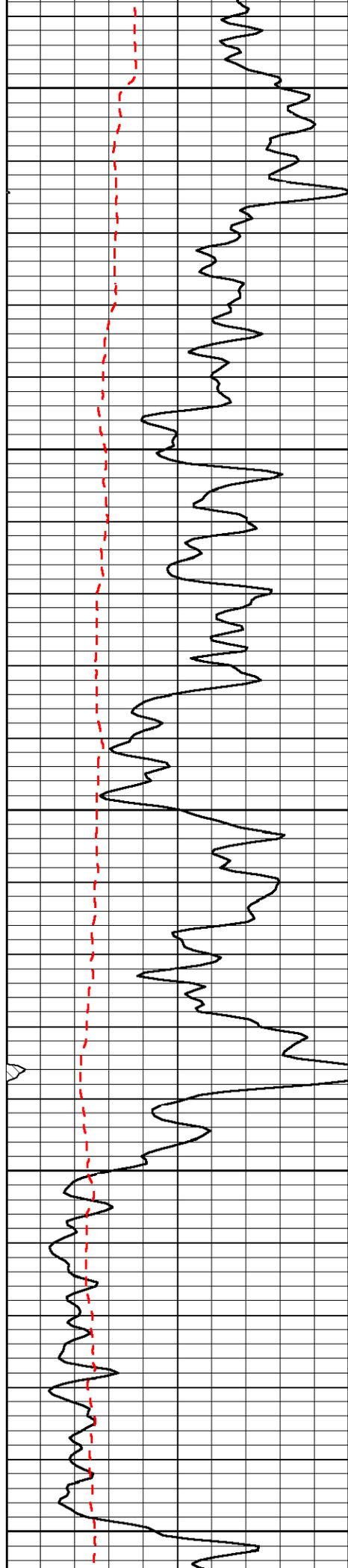
Thank you for using Log-Tech, Inc.  
(785) 625-3858

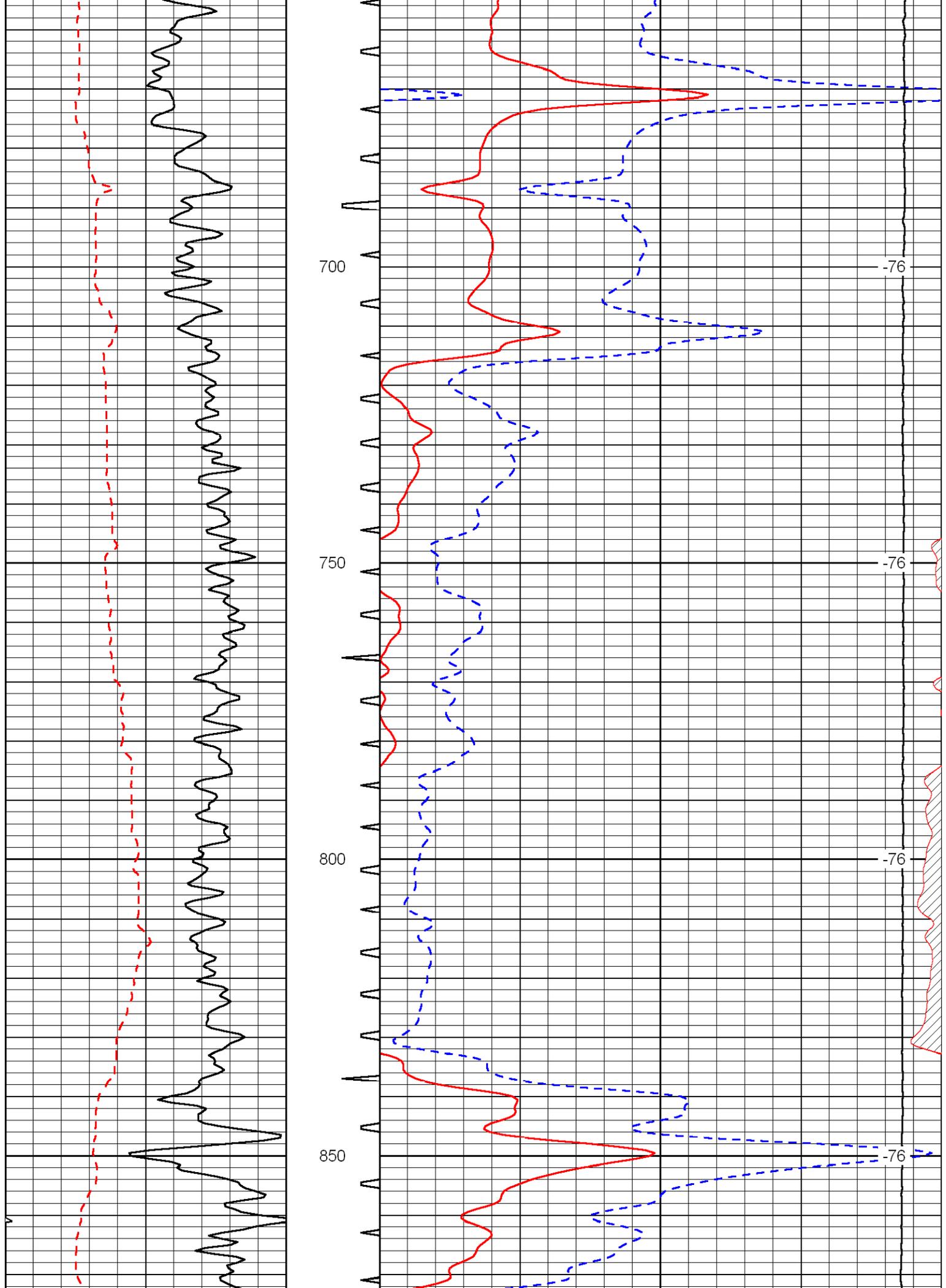
Hill City, 8 N to Y Rd,  
3 1/4 W, N Into

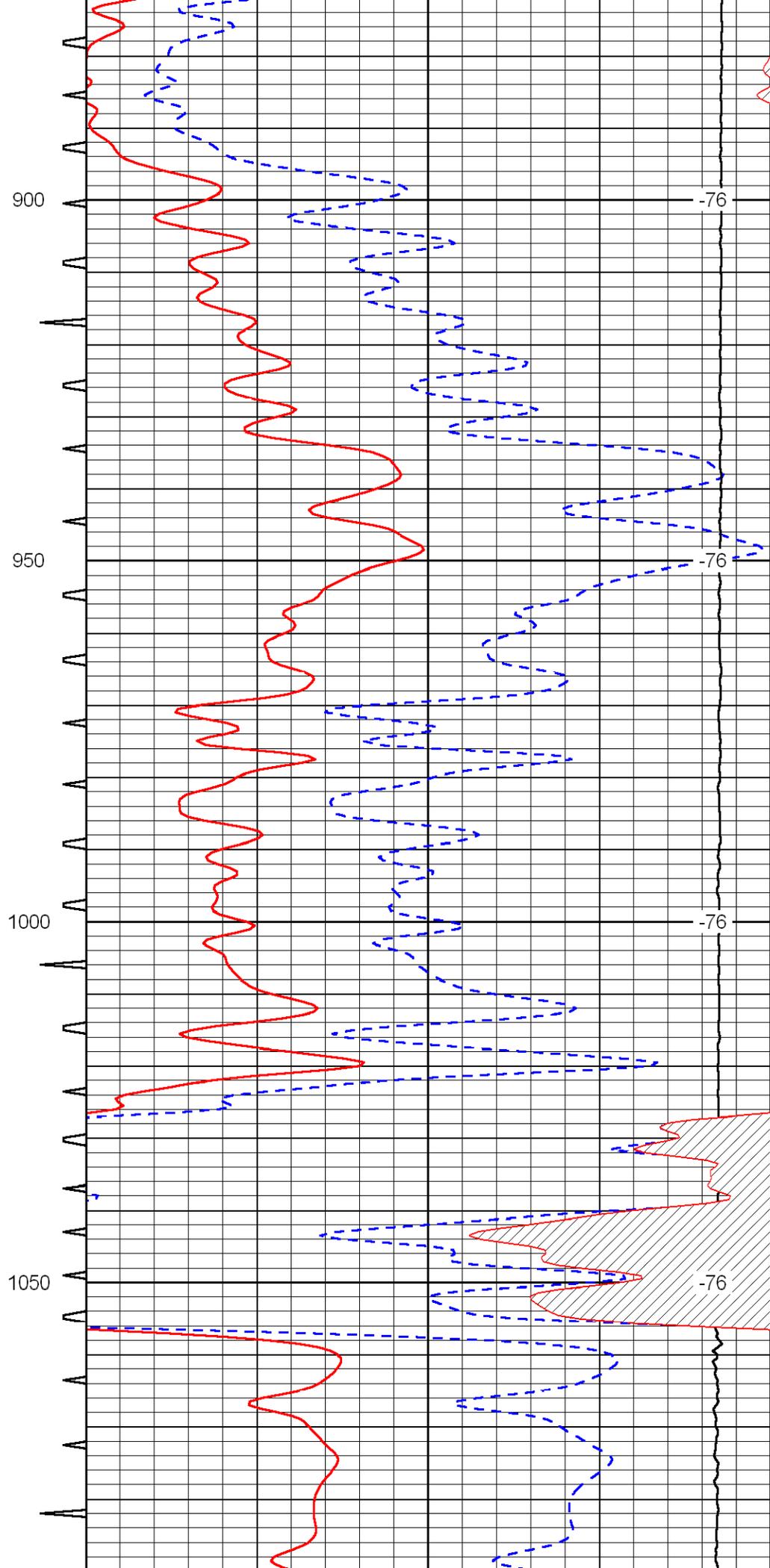
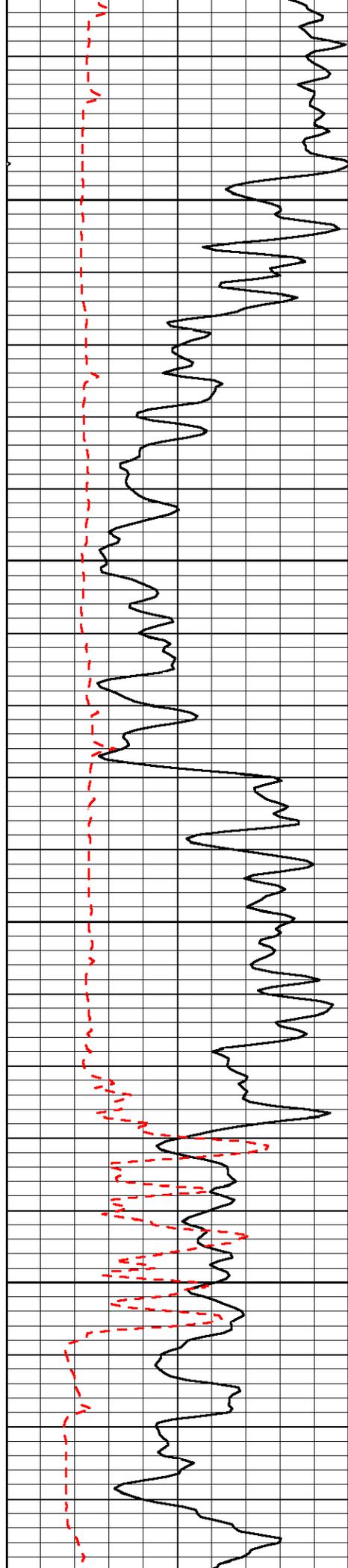
Database File: c:\warrior\data\h&c\_walters#32-1\h&coilhd.db  
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 Presentation Format: sonic  
 Dataset Creation: Sat Dec 12 16:08:31 2009  
 Charted by: Depth in Feet scaled 1:240

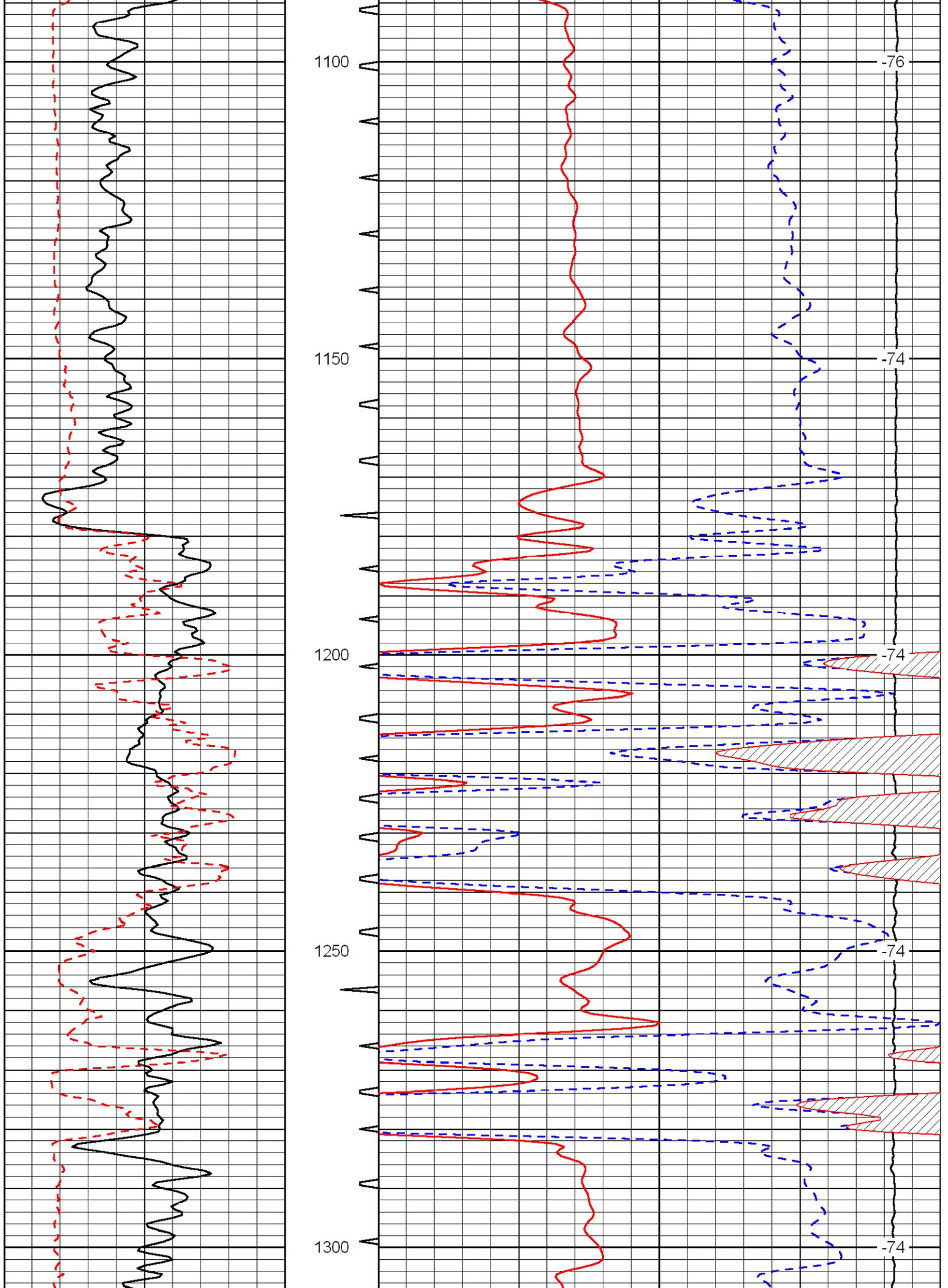
0	Gamma Ray	150	Sonic Int	140	Delta Time (usec/ft) (usec/ft)	40
150	Gamma Ray	300	5 (msec)	0	SPOR (pu)	-10
6	Caliper (in)	16		15000	LTEN (lb) (lb)	0
						LSPD (ft/min)

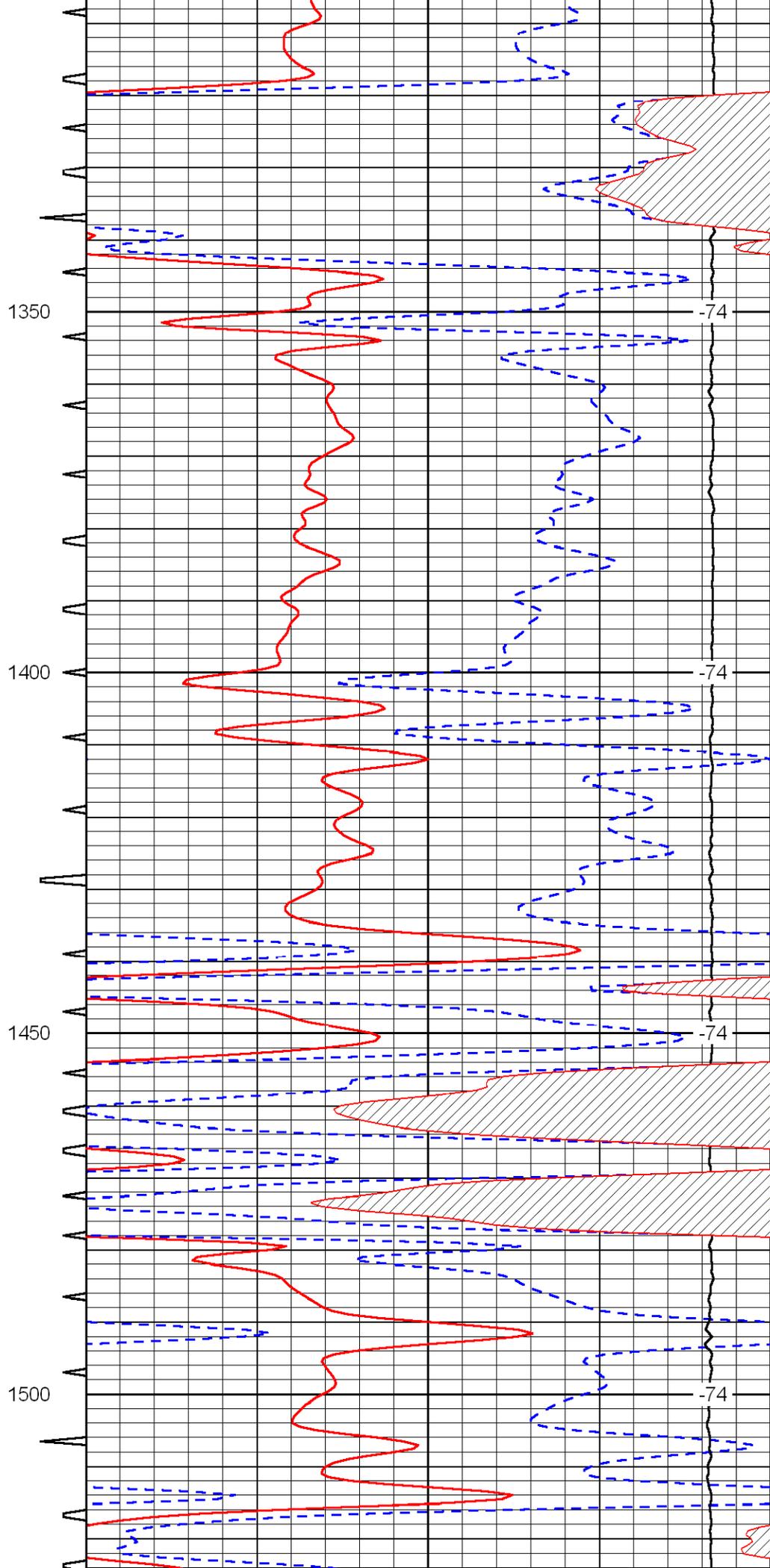
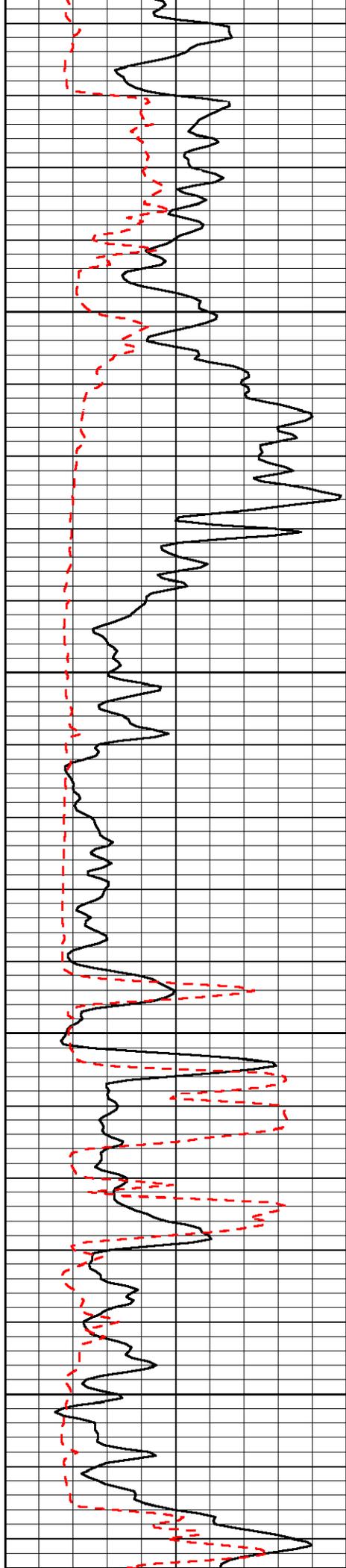


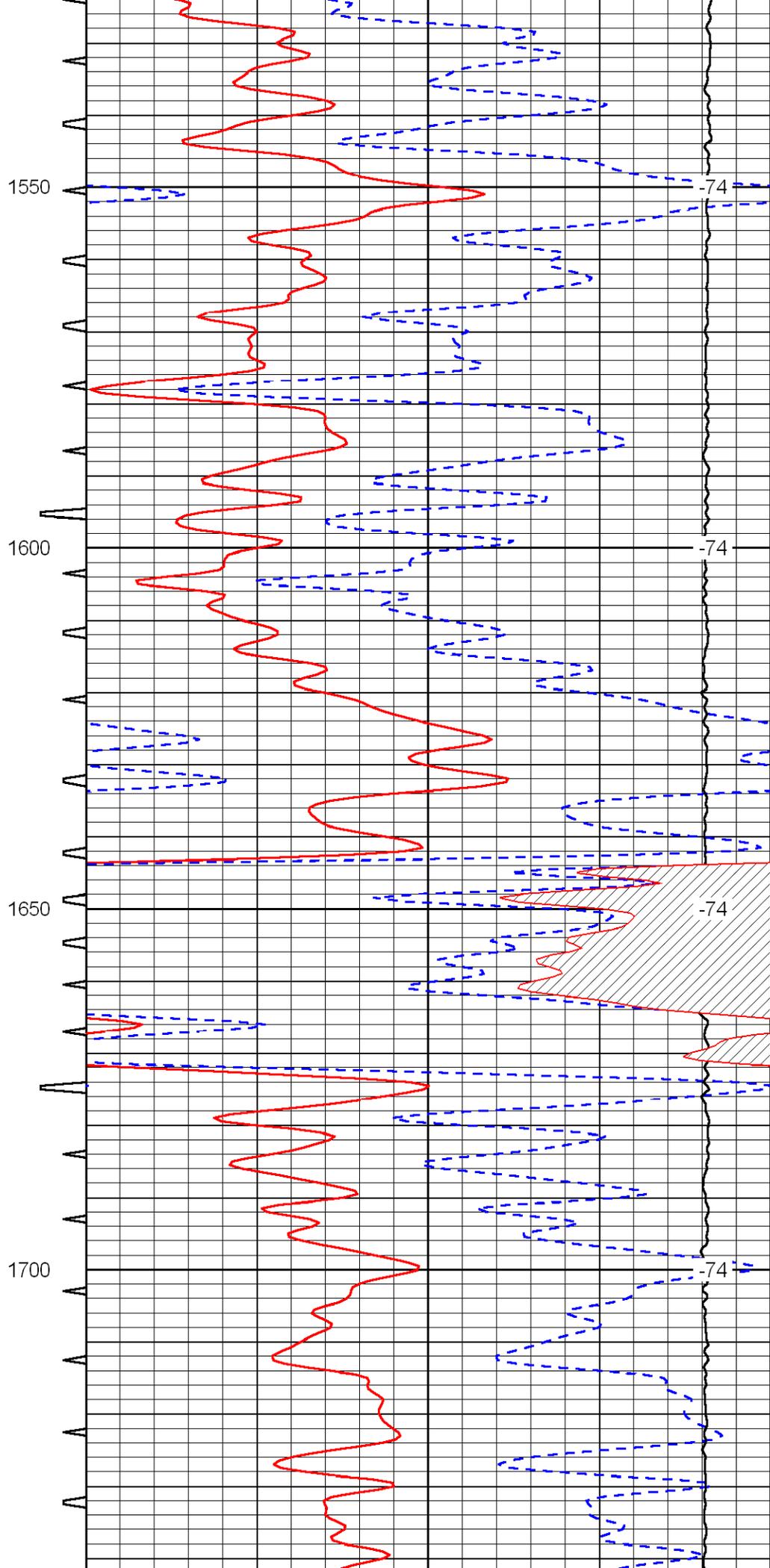
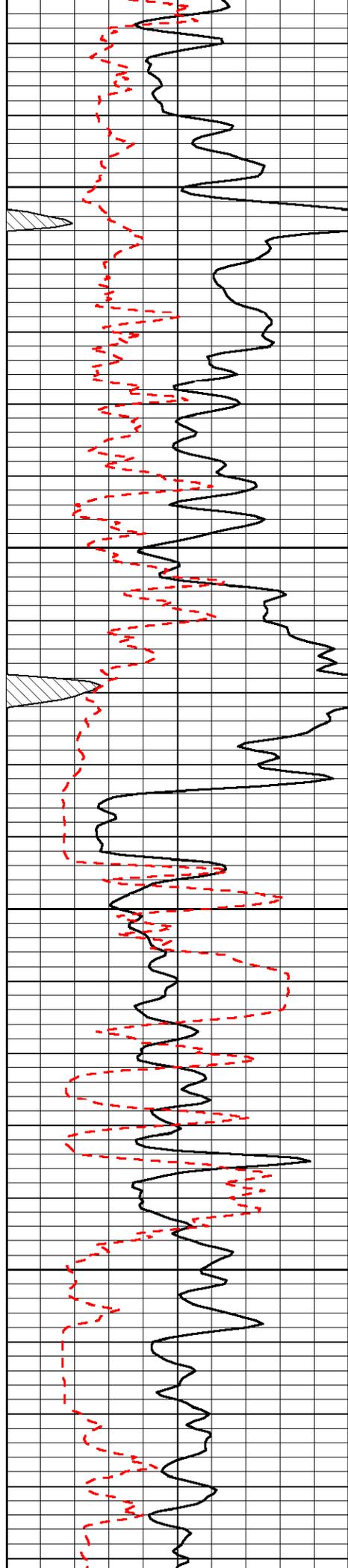


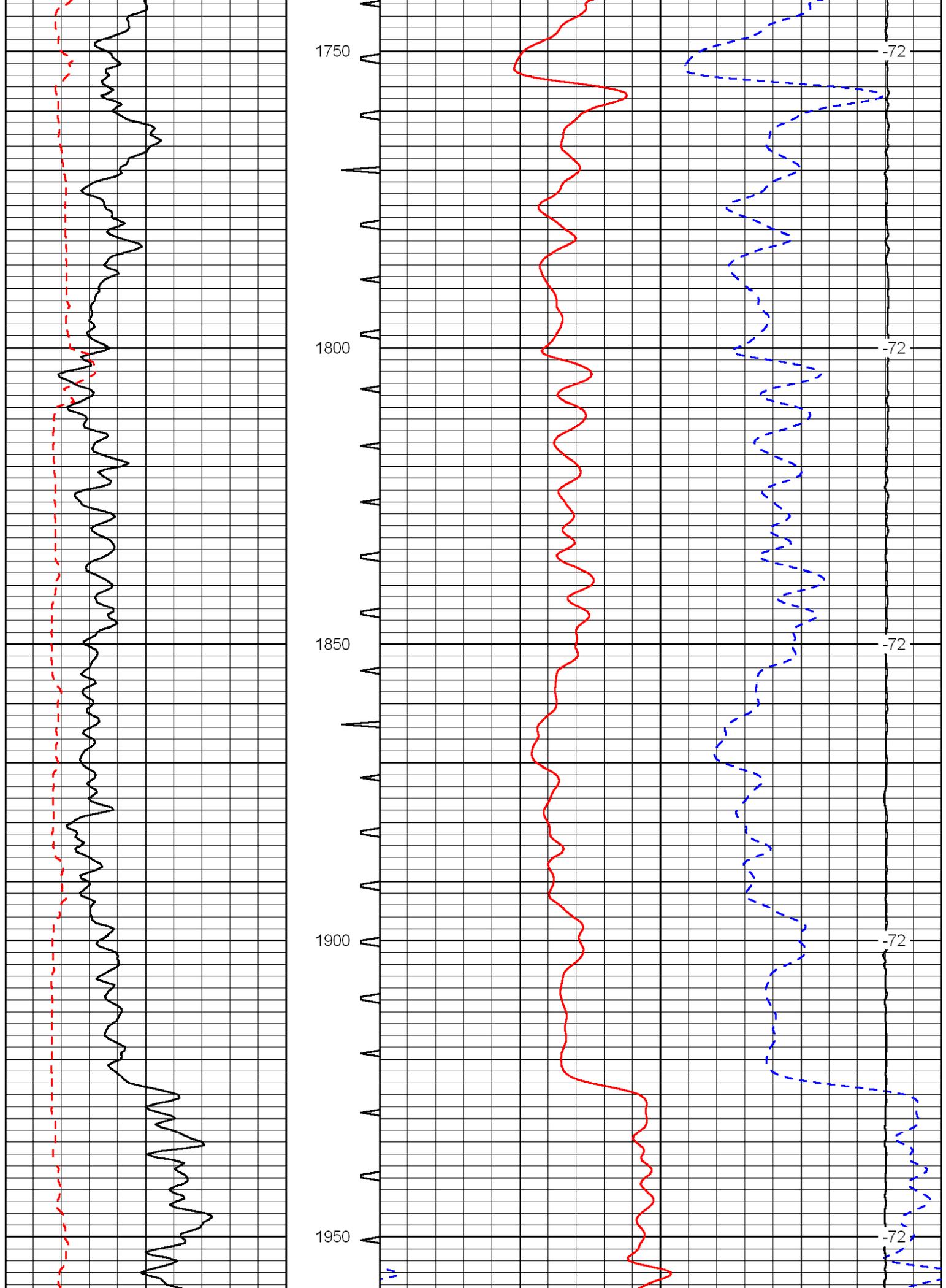


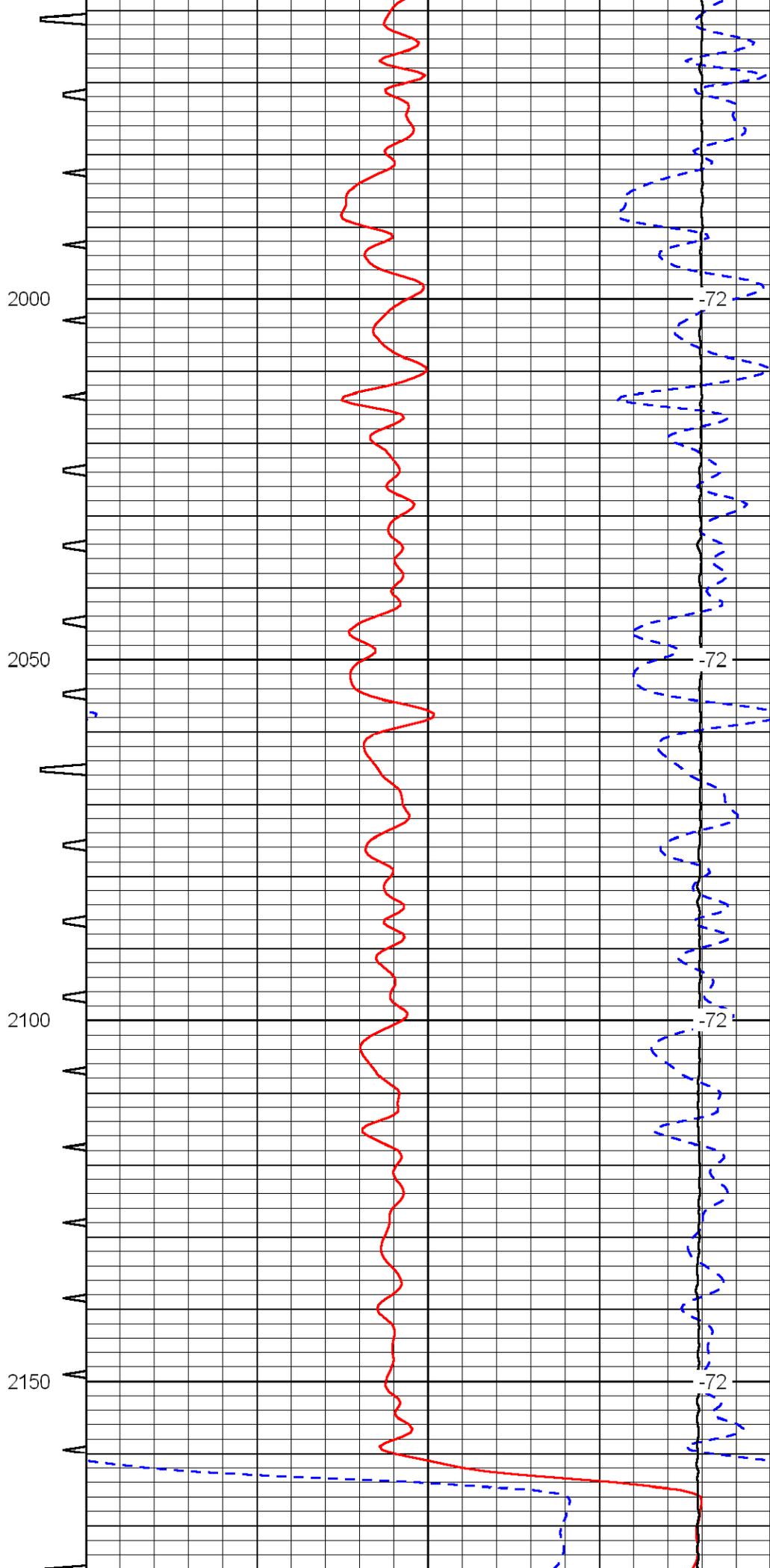
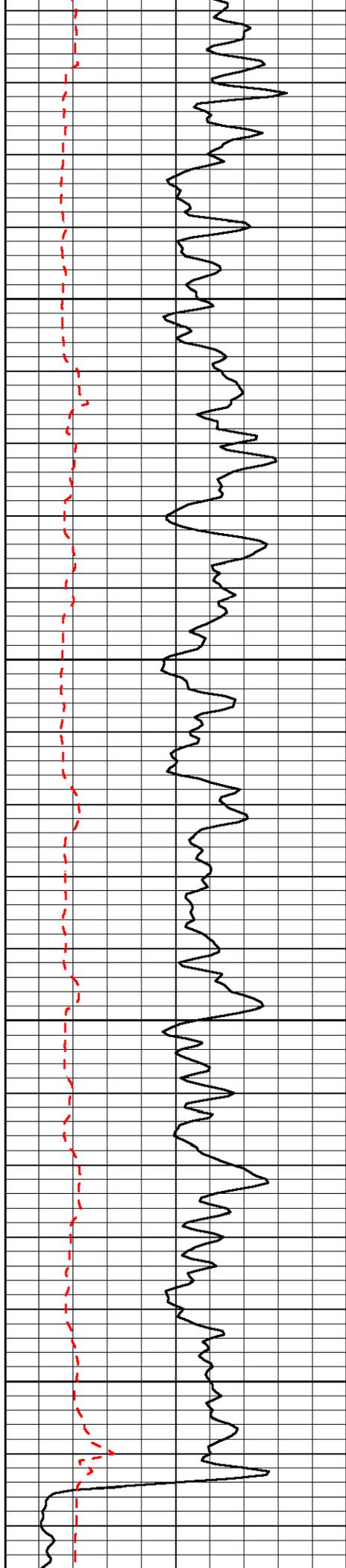












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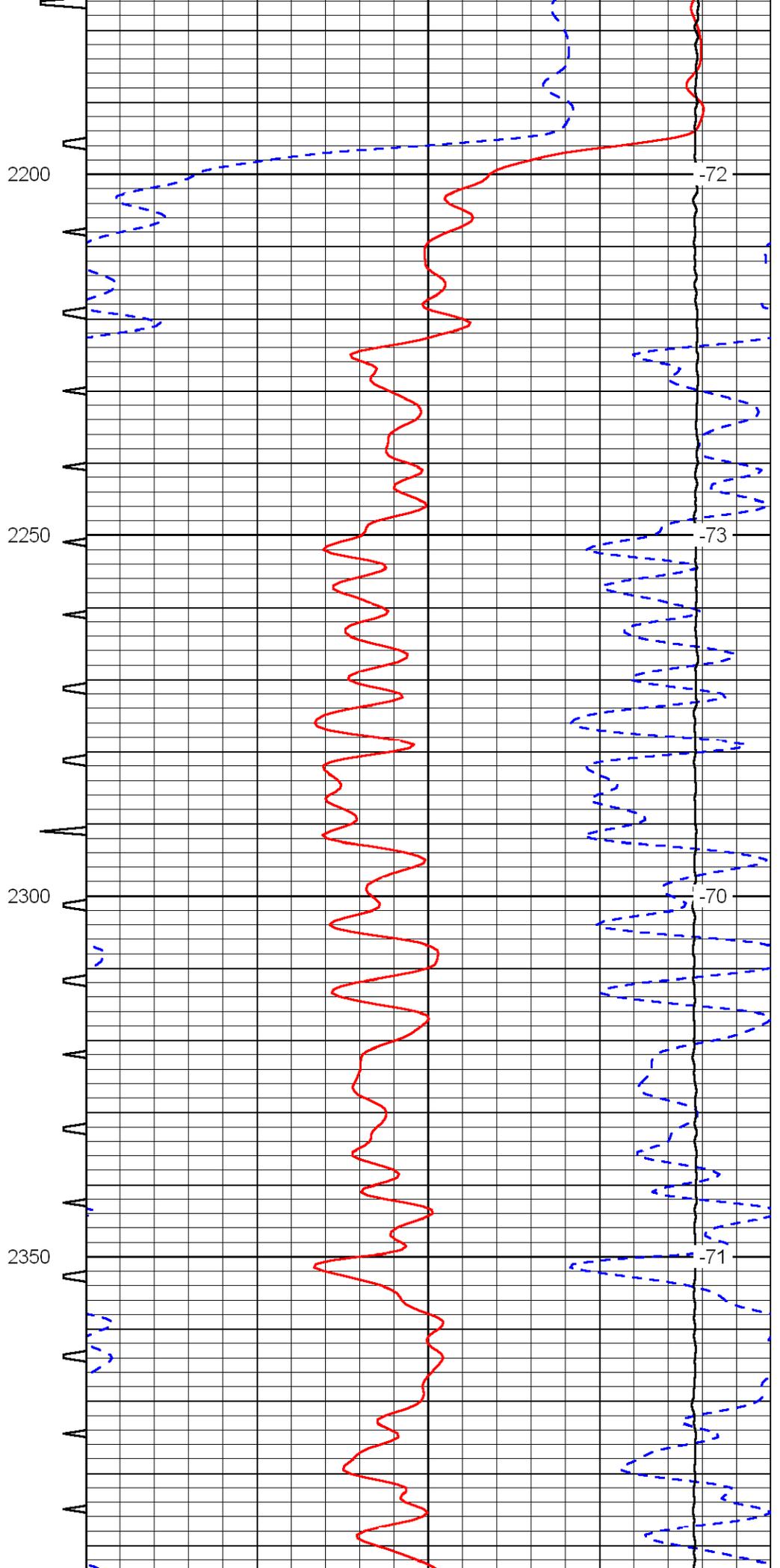
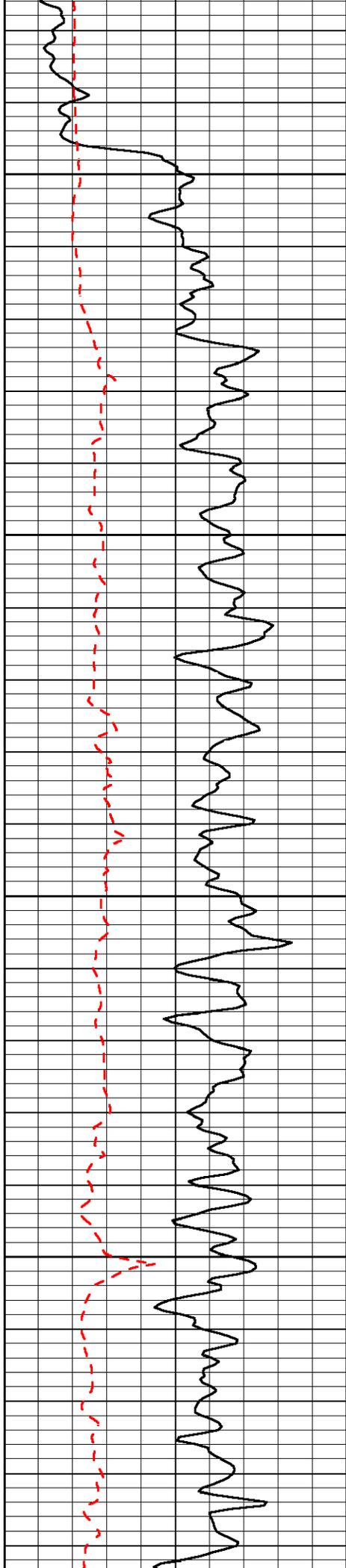
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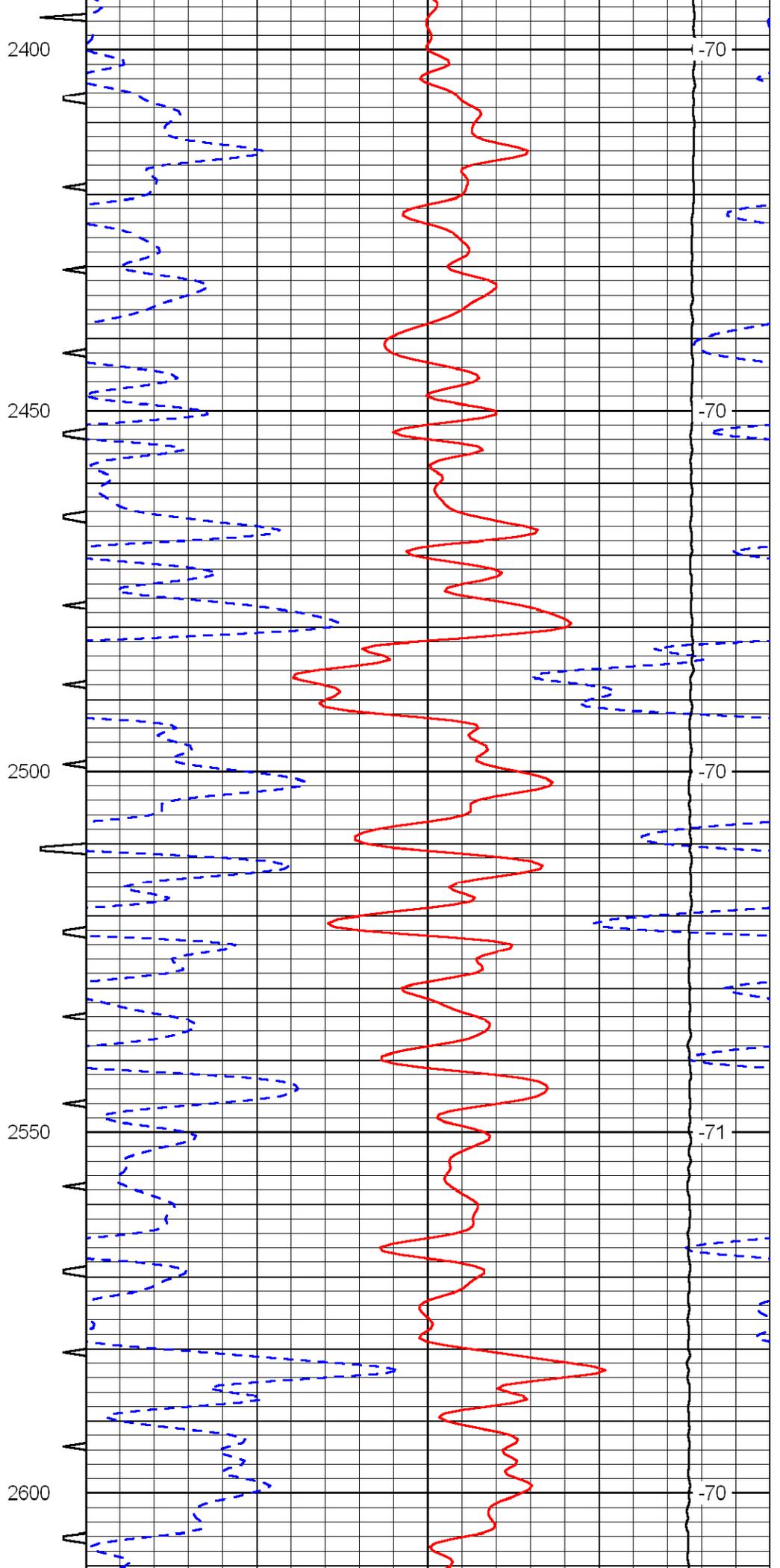
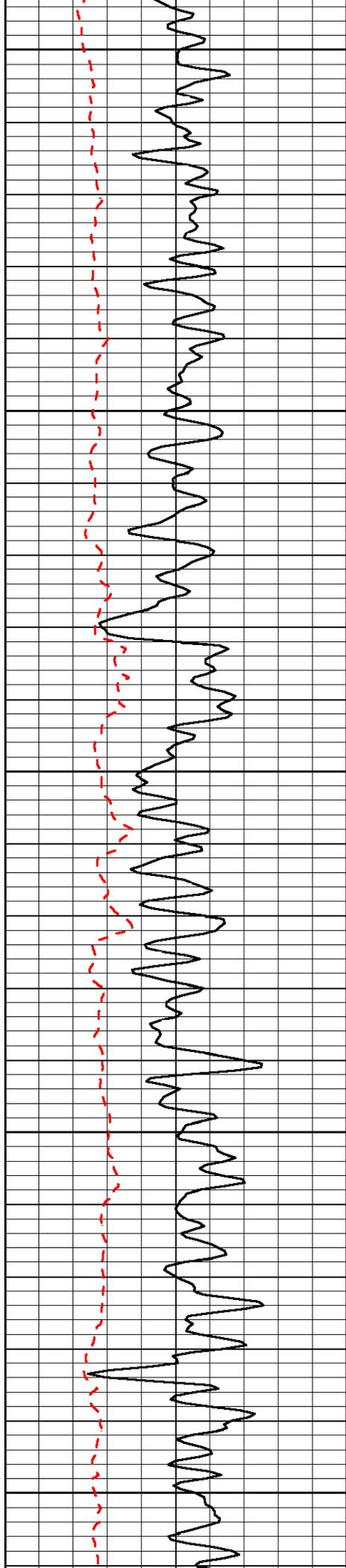
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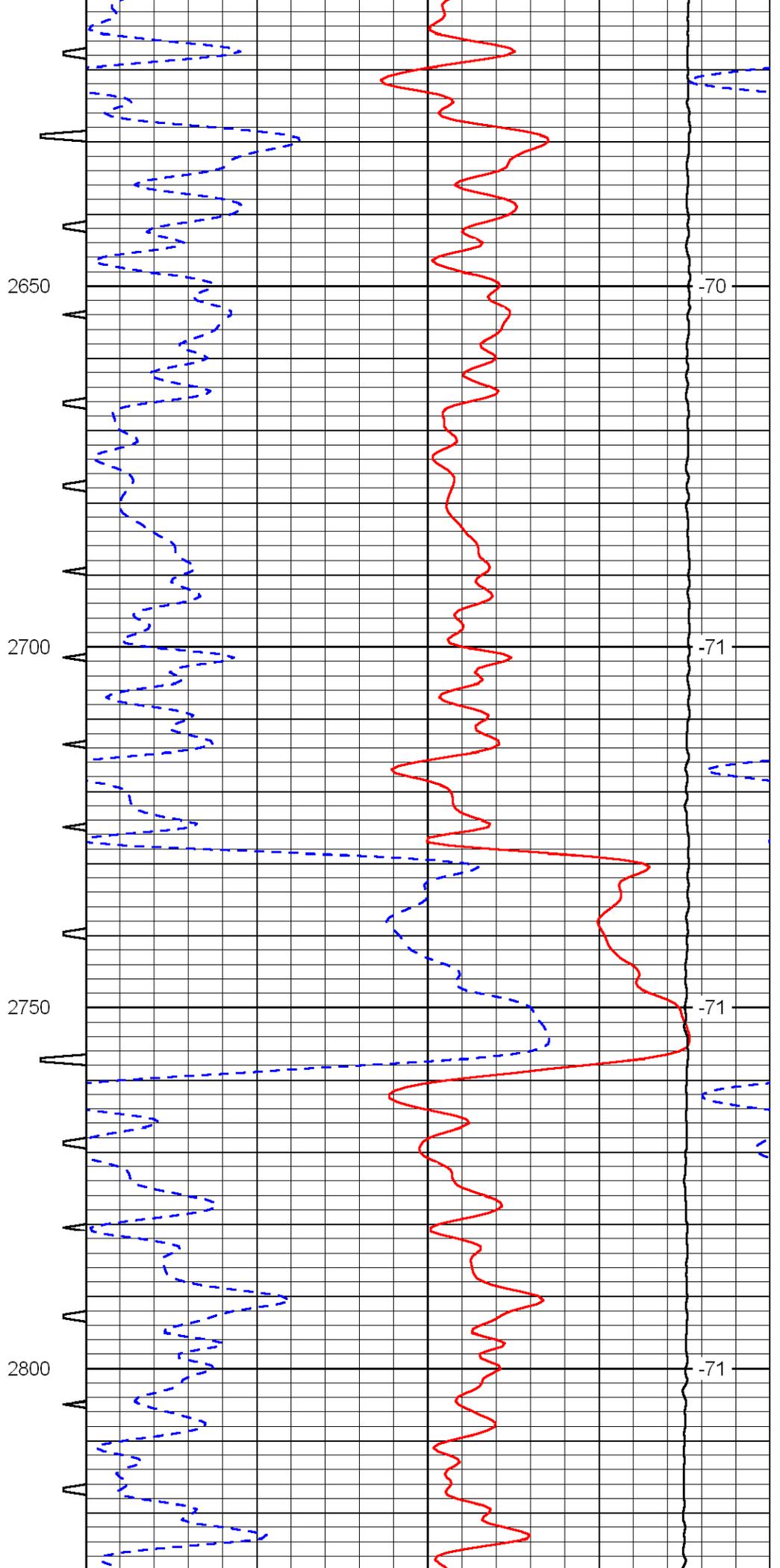
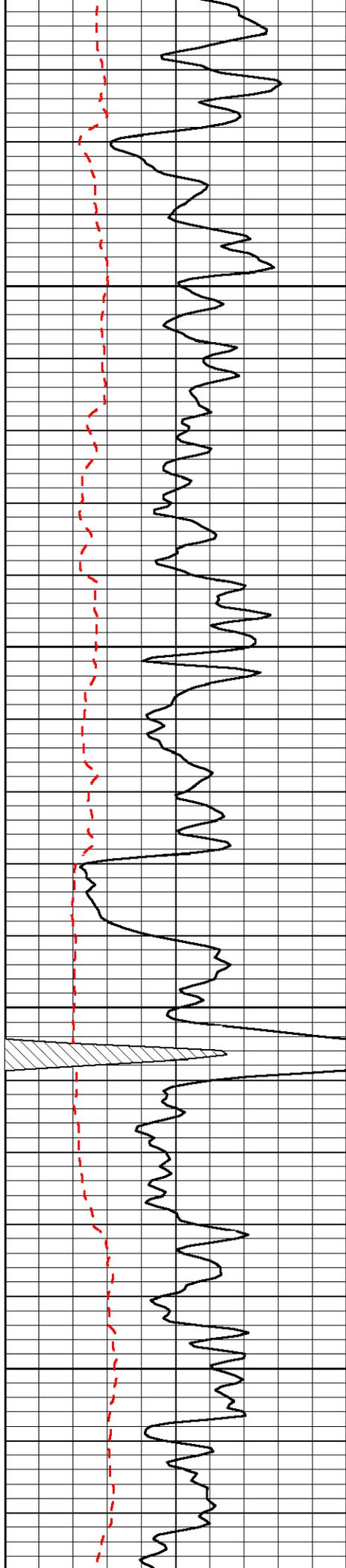
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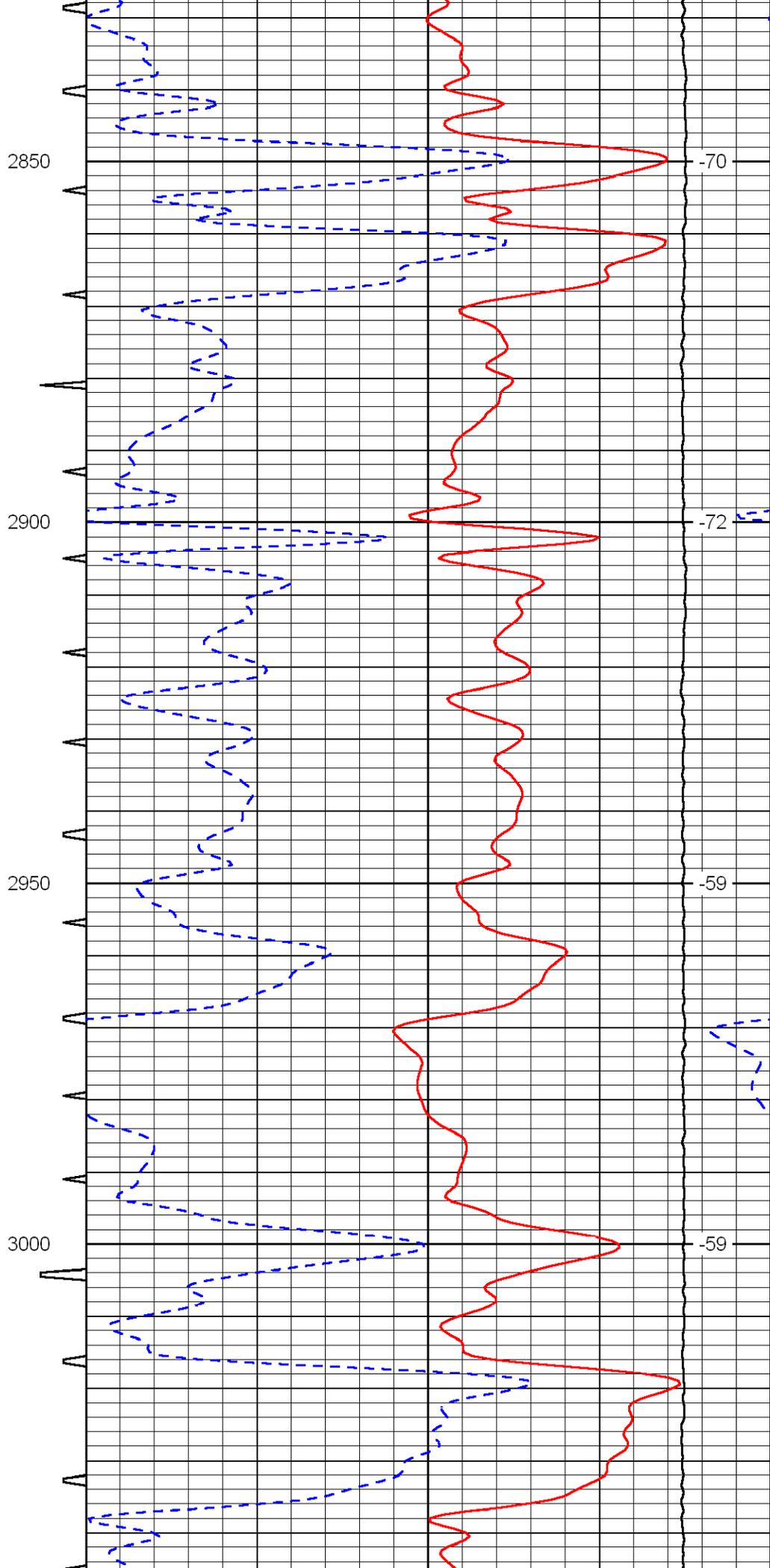
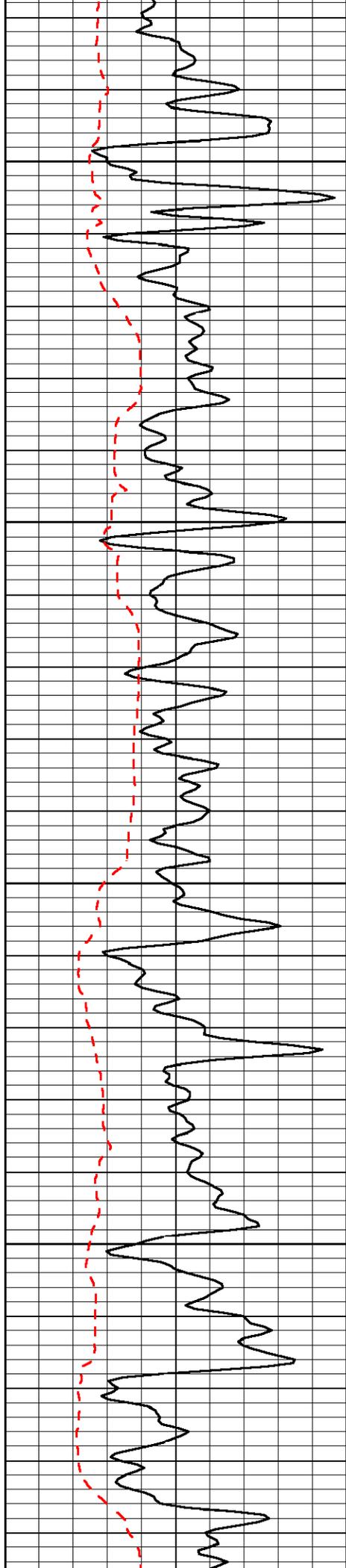
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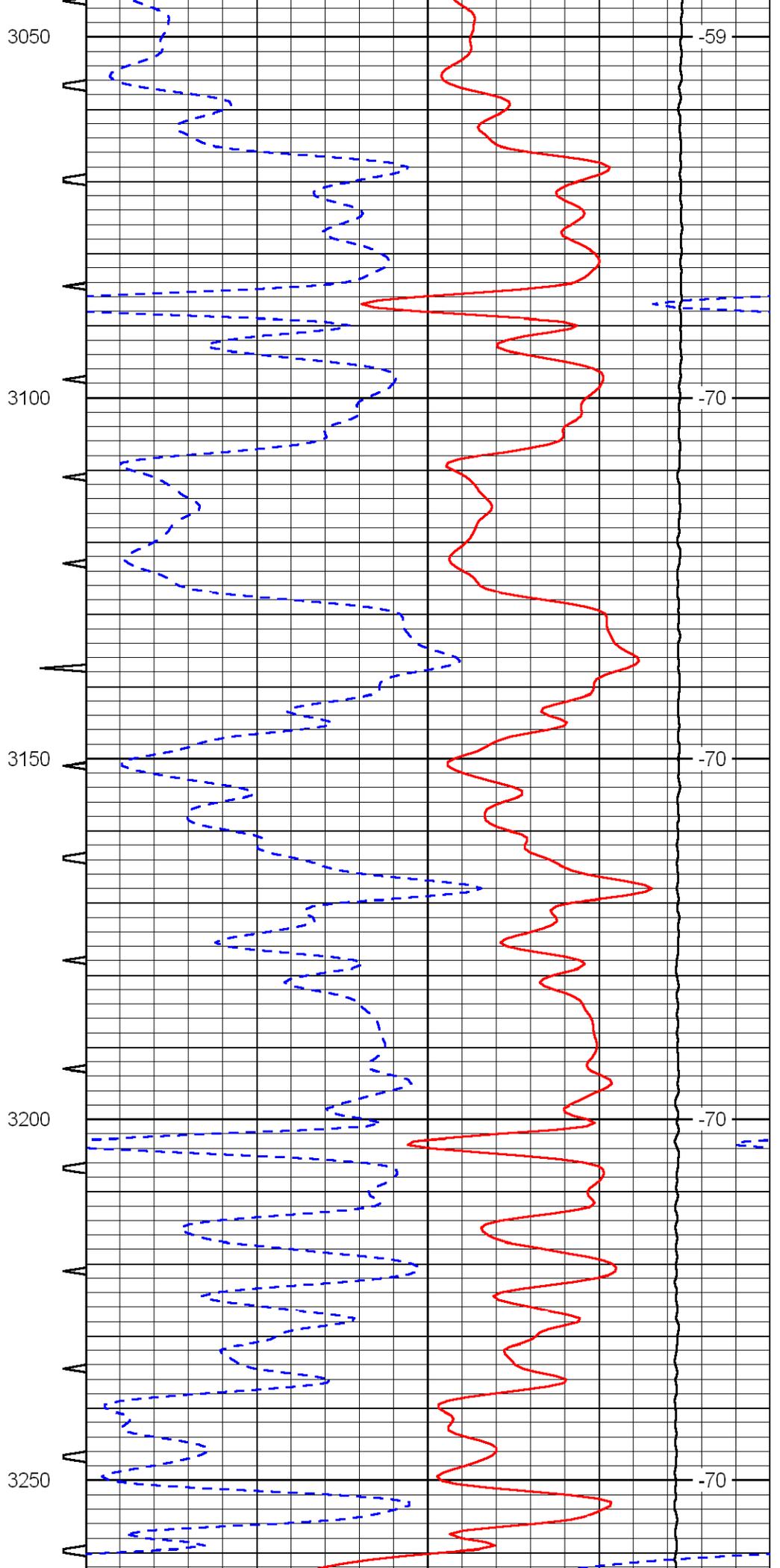
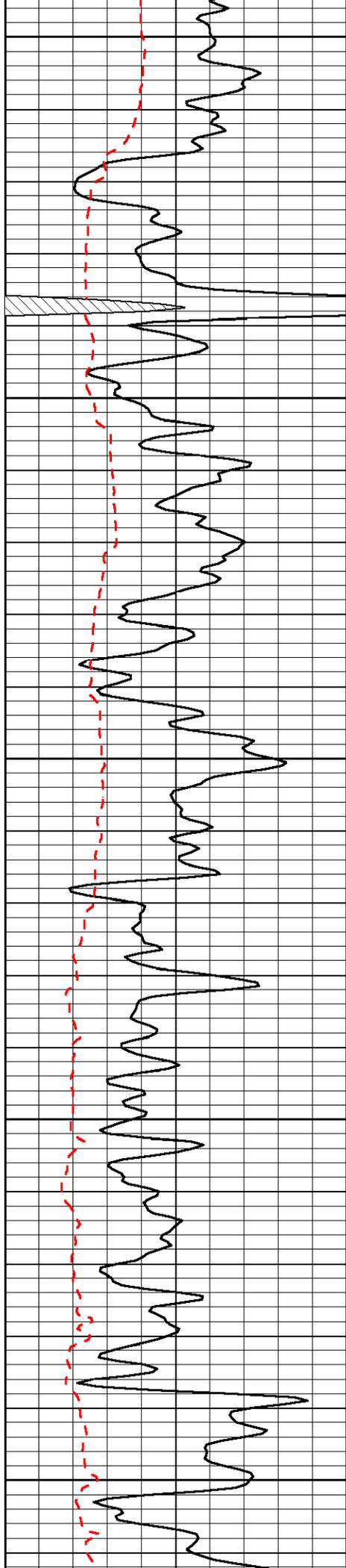
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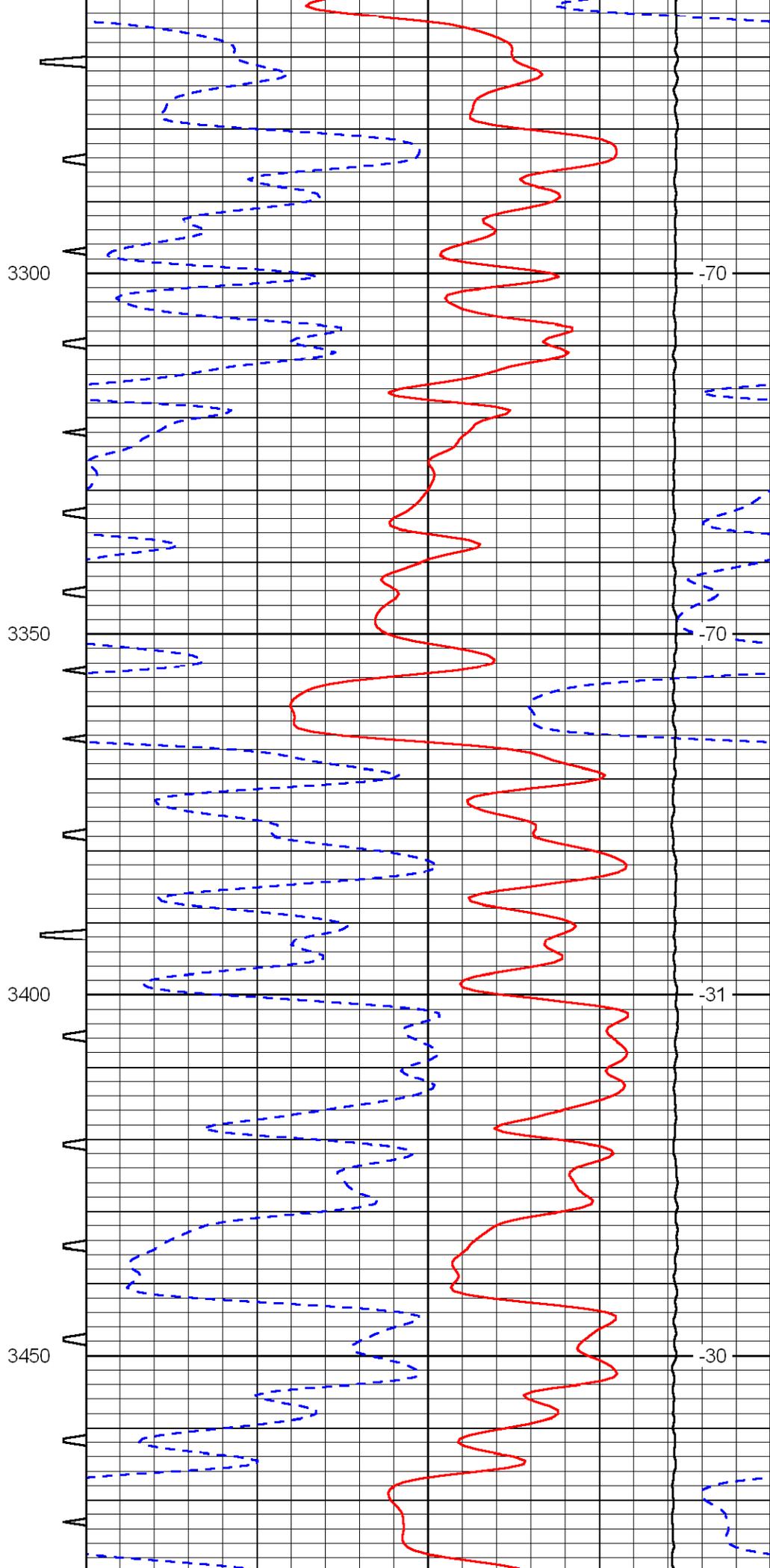
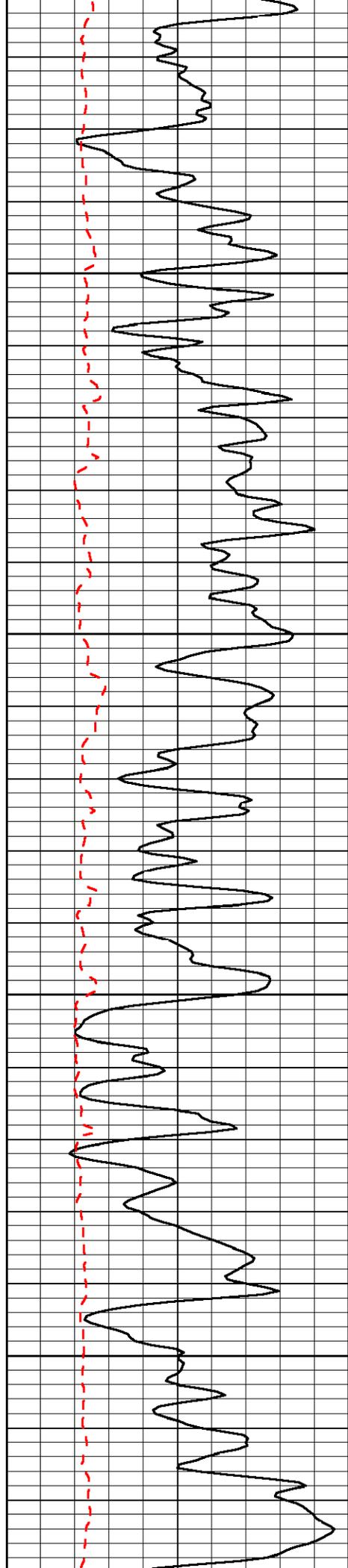


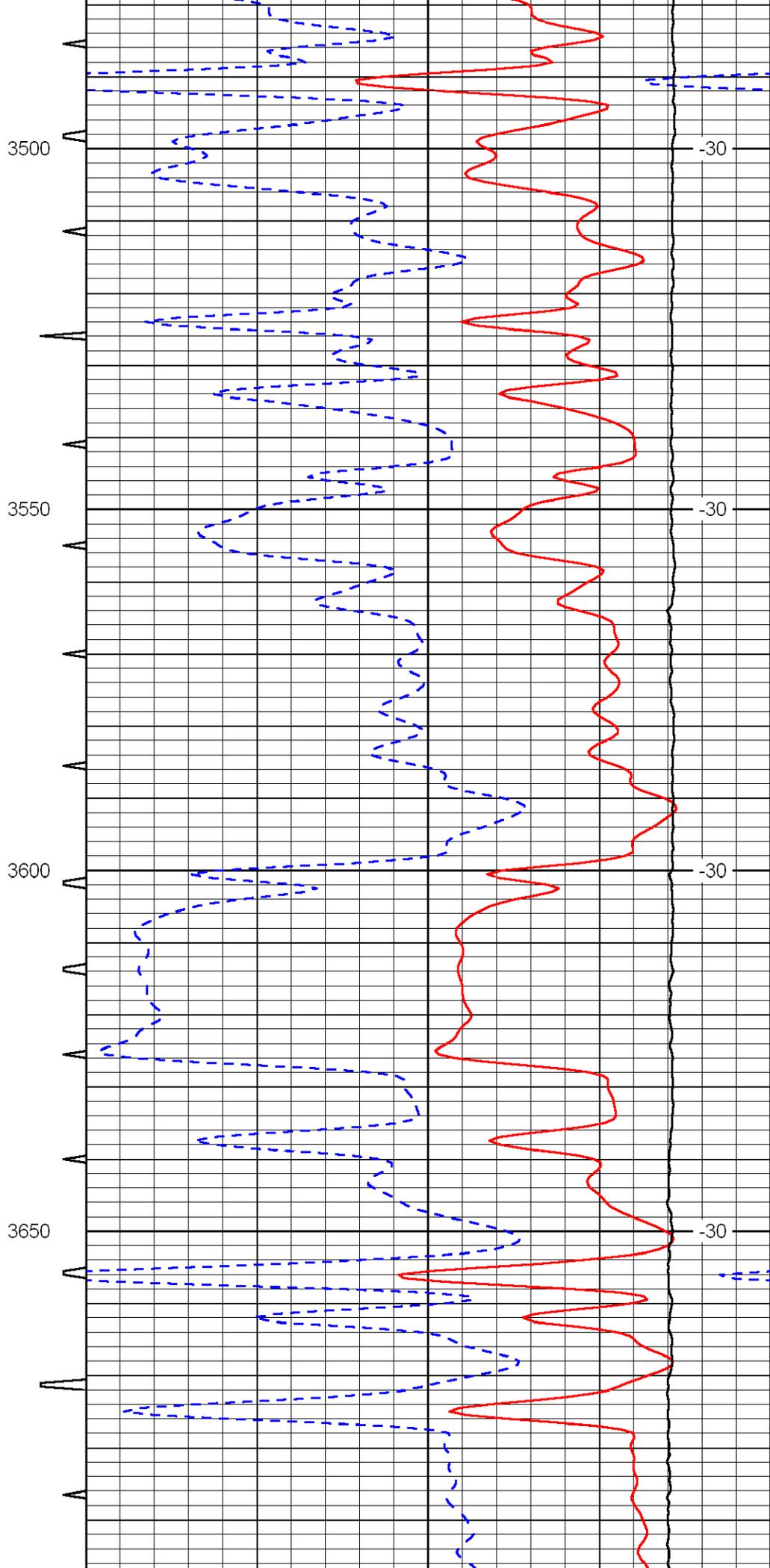
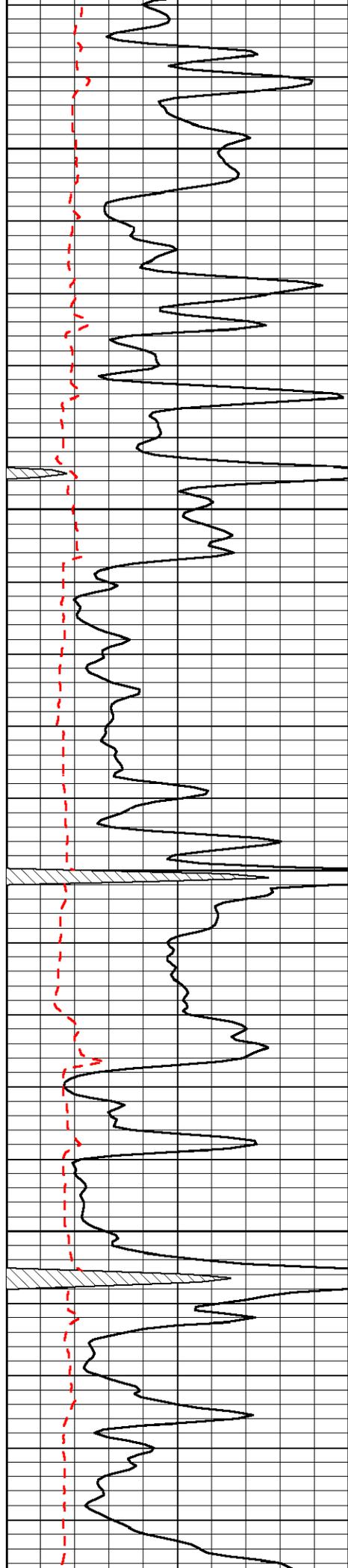


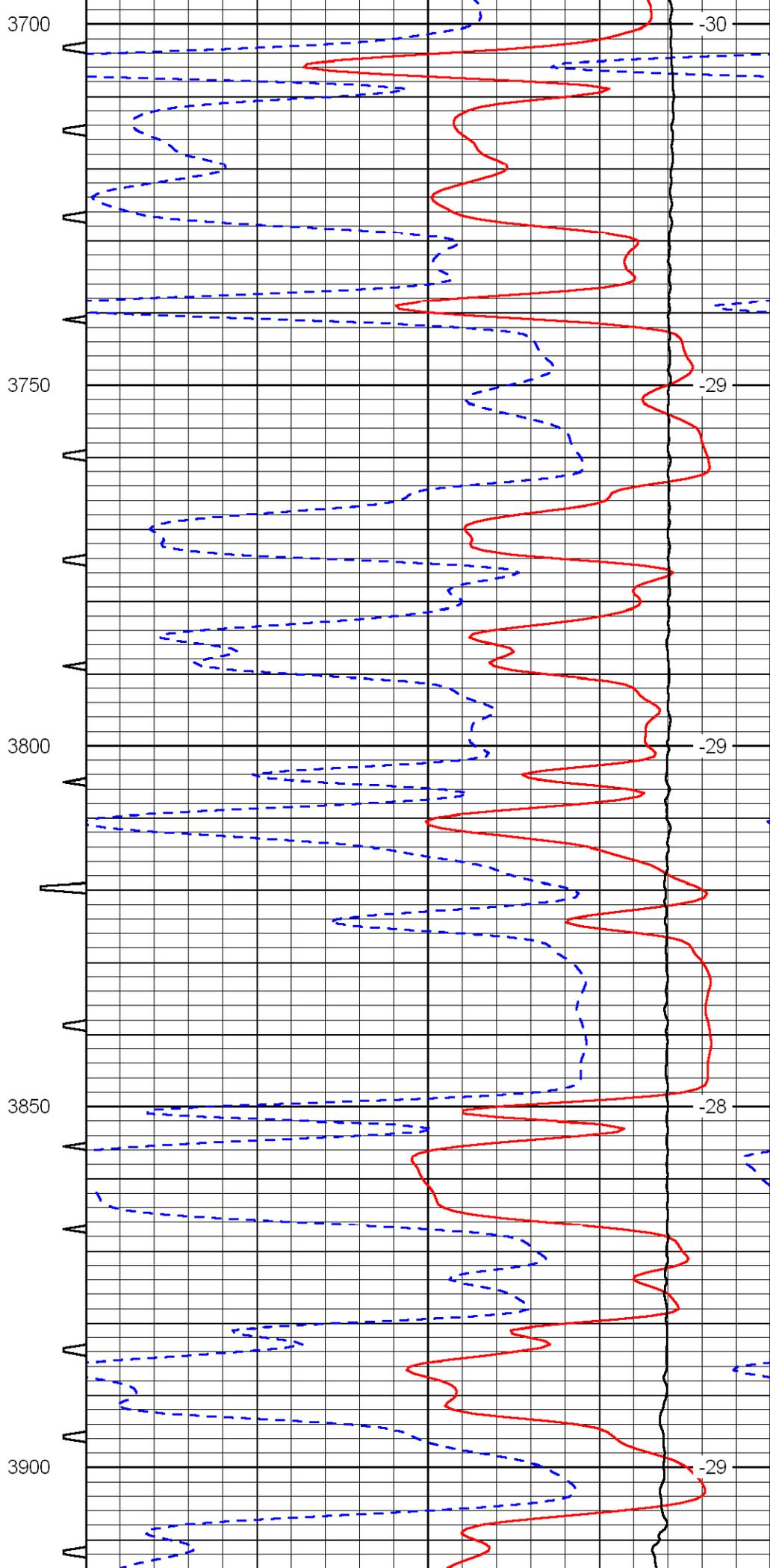
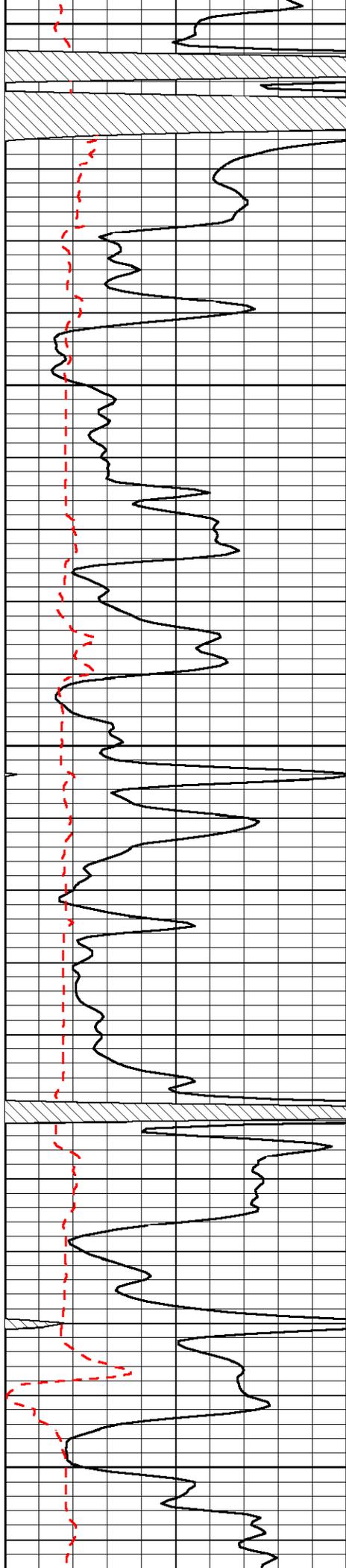


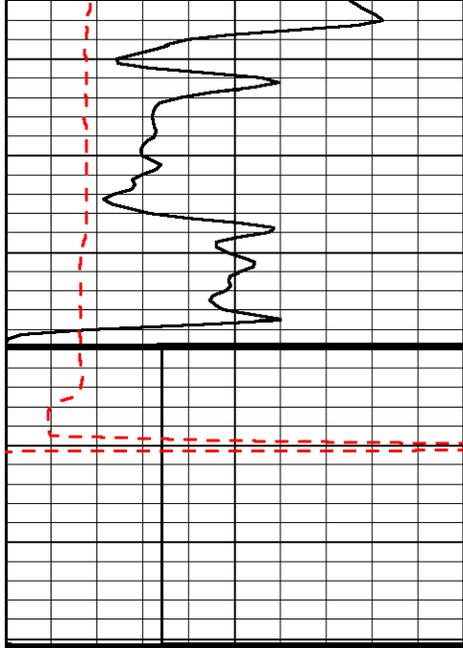




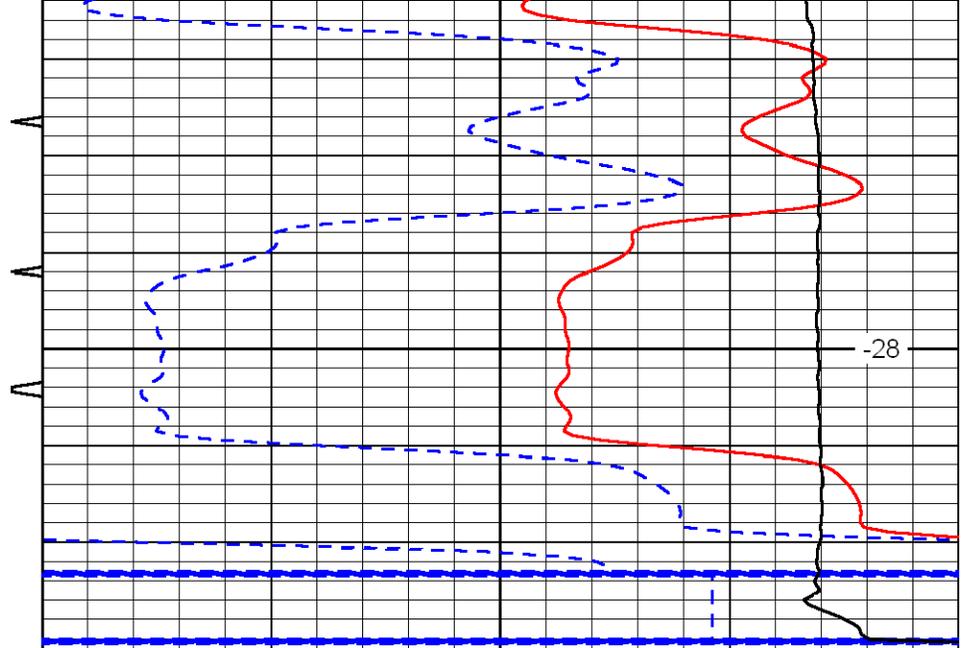








3950



-28

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
	15000	LTEN (lb) (lb)	0

LSPD  
(ft/min)