



Pioneer Energy Services

# Borehole Compensated Sonic Log

15-053-21,321-00-00

API No.

Company **Bird Dog Oil, LLC**  
 Well **Stoltenberg-Svoboda #3-17**  
 Field **Stoltenberg**  
 County **Ellsworth** State **Kansas**

Location **1600' FNL & 1940' FEL**  
 Sec: **17** Twp: **16S** Rge: **10W**

Other Services  
 CNL/CDL  
 MEL/DIL

Permanent Datum **Ground Level** Elevation **1887**  
 Log Measured From **Kelly Bushing** 8 Ft. Above Perm. Datum  
 Drilling Measured From **Kelly Bushing**

Elevation  
 K.B. 1895  
 D.F. 1887  
 G.L. 1887

Date	10/29/2014	
Run Number	Two	
Type Log	BHC Sonic	
Depth Driller	3440	
Depth Logger	3442	
Bottom Logged Interval	3431	
Top Logged Interval	400	
Type Fluid In Hole	Chemical	
Salinity, PPM CL	9,100	
Density	9.2	
Level	Full	
Max. Rec. Temp. F	110	
Operating Rig Time	5 Hours	
Equipment -- Location	10 Hays	
Recorded By	J. Henrickson	
Witnessed By	Adam Nighswonger	

**Borehole Record**

Run No	Bit	From	To	Size	Wgt.	From	To
1	12.25	00	407	8.625	24#	00	407
2	7.875	407	3440				

**Casing Record**

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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.

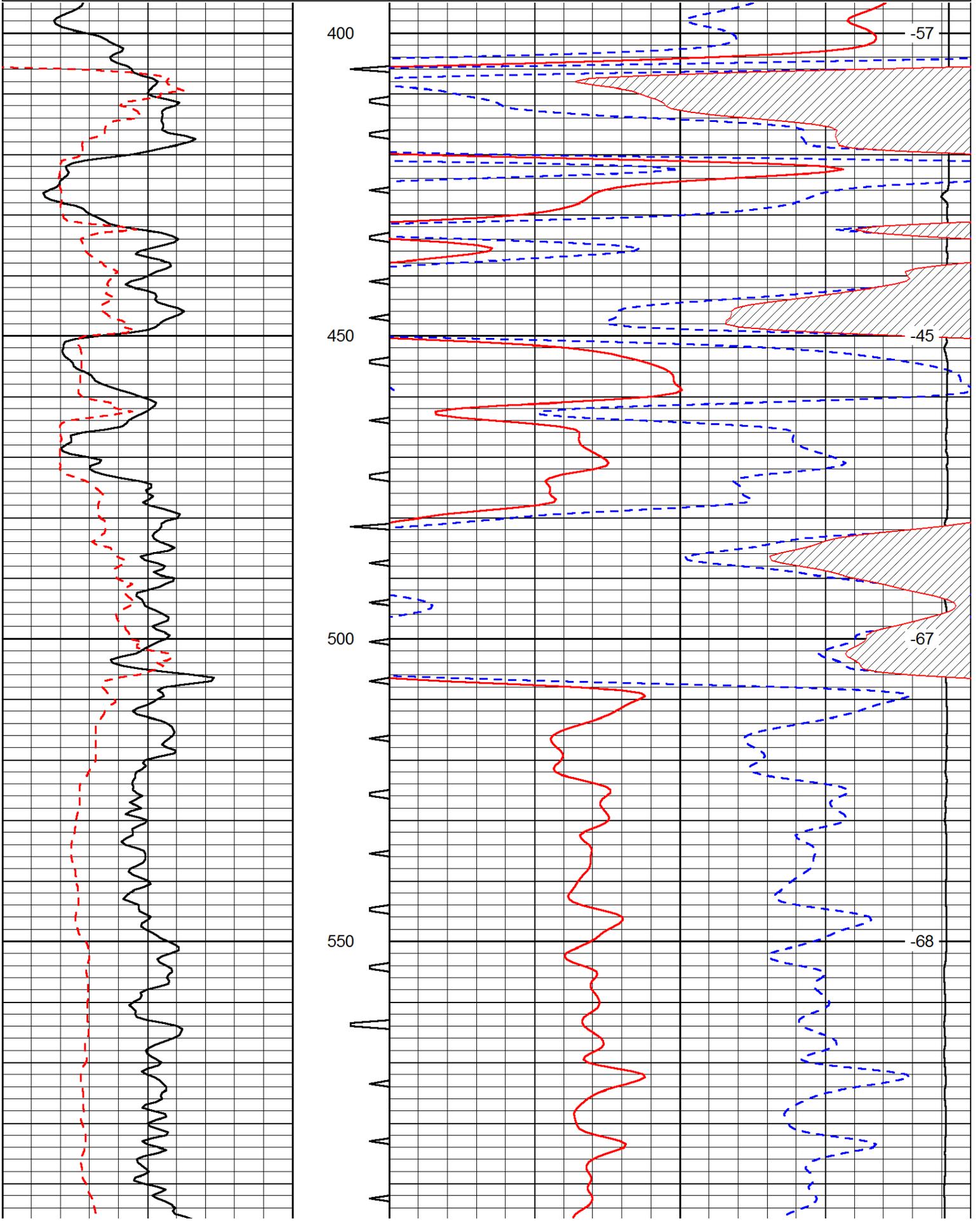
**Comments**

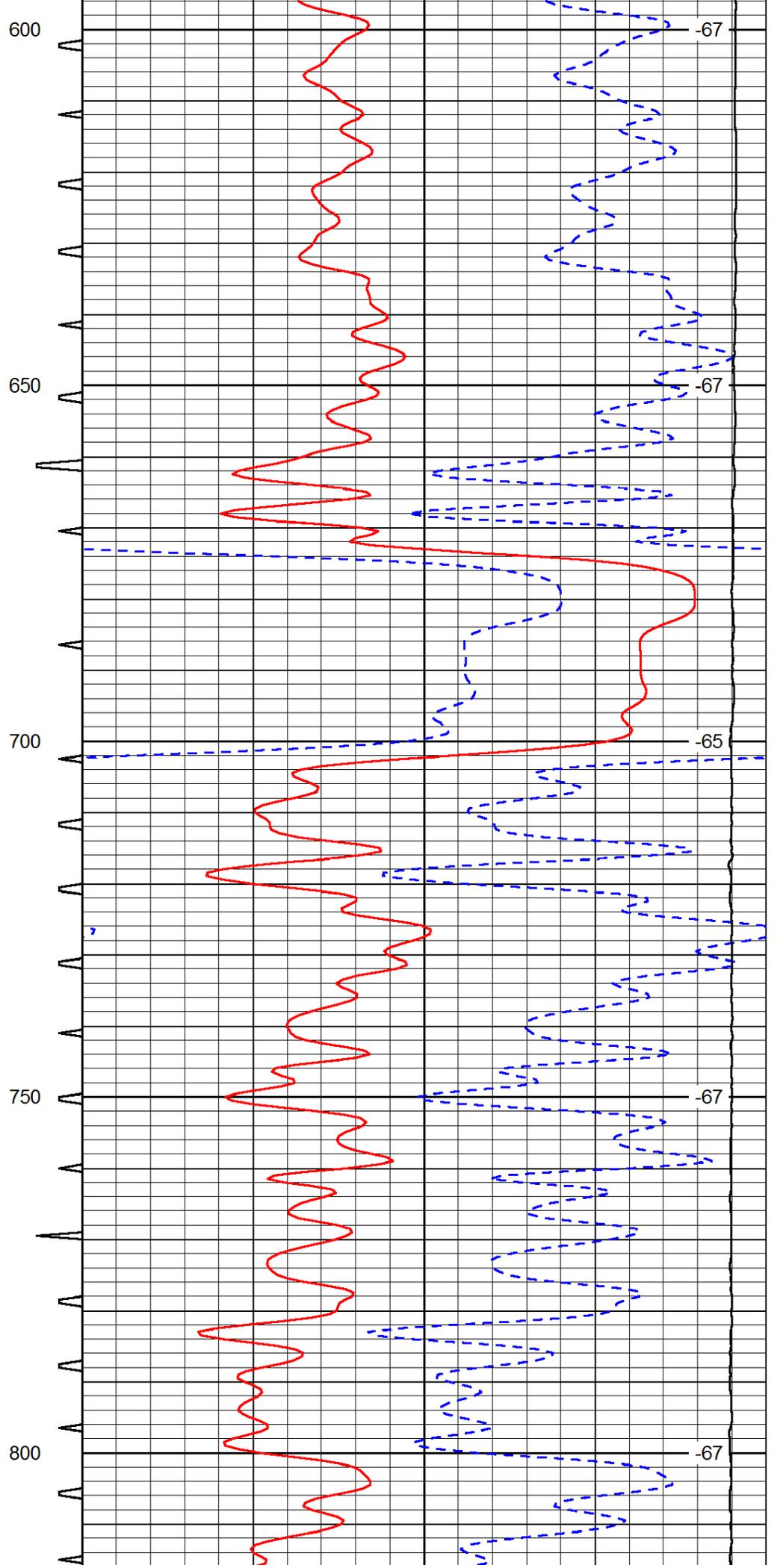
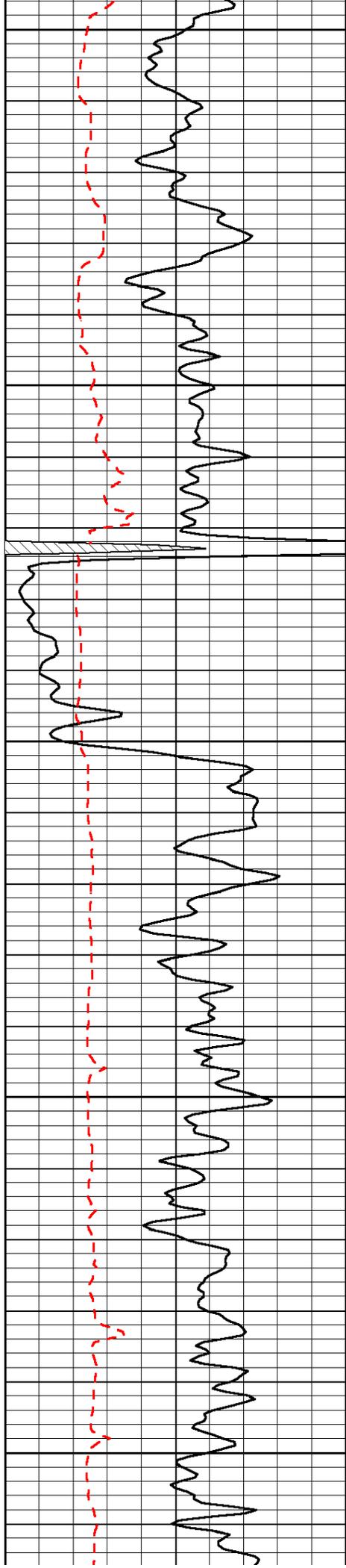
Thank you for using Pioneer Energy Services  
 www.pioneeres.com  
 785 625 3858  
 Wilson Kansas  
 12 South to P Rd, 2 East, 1/2 North, West Into

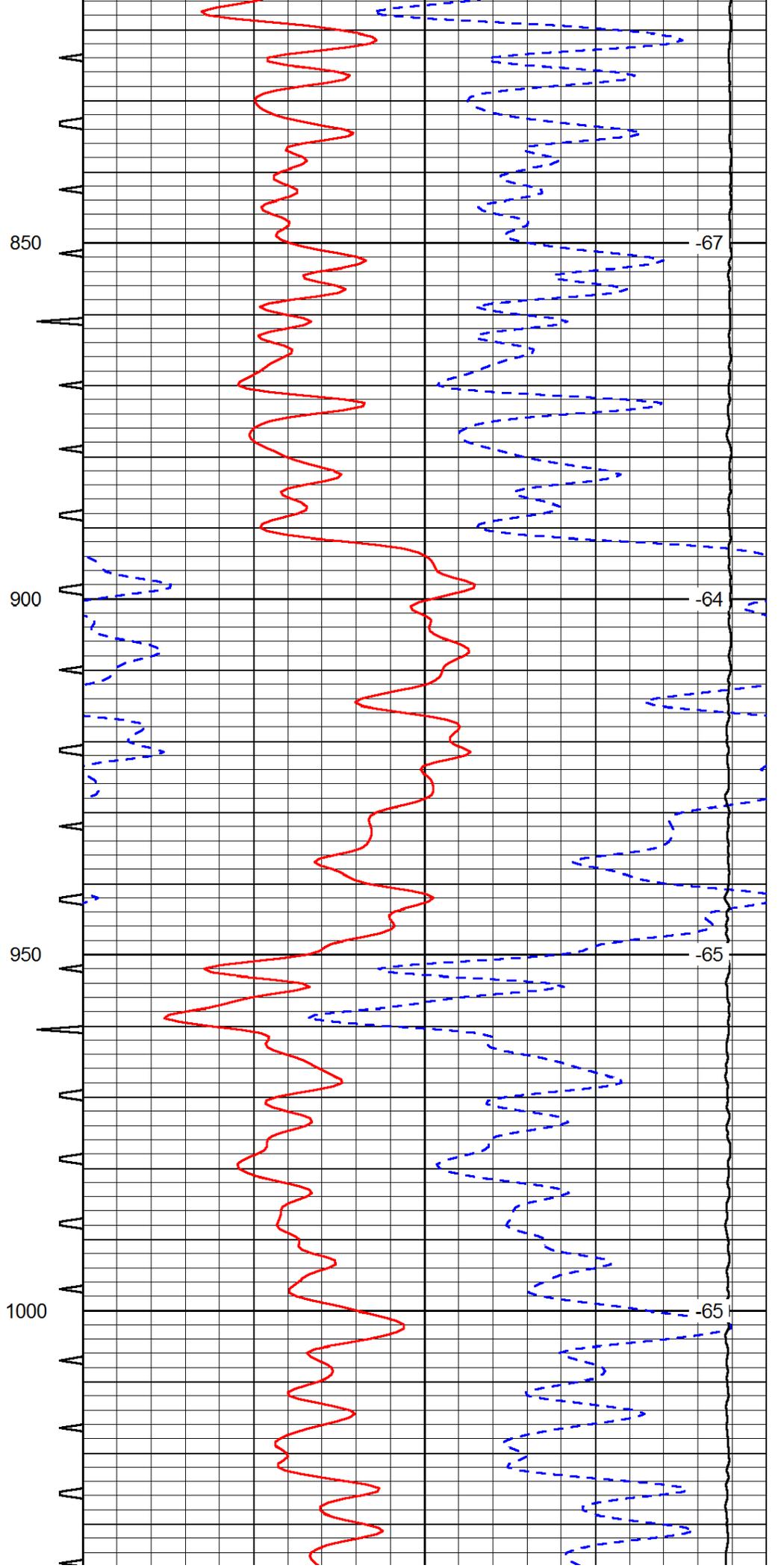
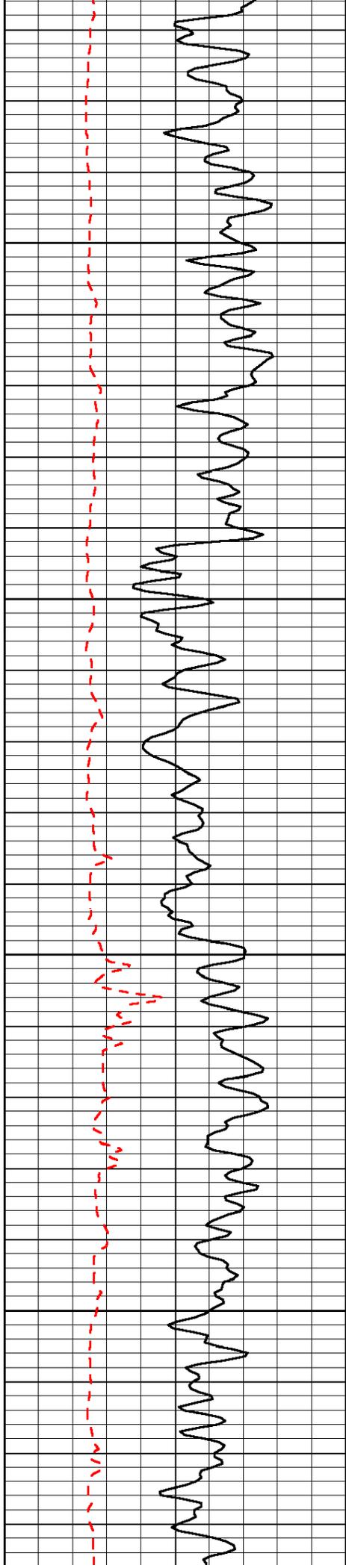
Database File: c:\warrior\data\bird dog\_stoltenberg-svoboda #3-17\birddog\_stoltenberg\_svoboda\_3\_17hd.db  
 Dataset Pathname: DIL/birdstk  
 Presentation Format: sonic  
 Dataset Creation: Wed Oct 29 22:28:27 2014  
 Charted by: Depth in Feet scaled 1:240

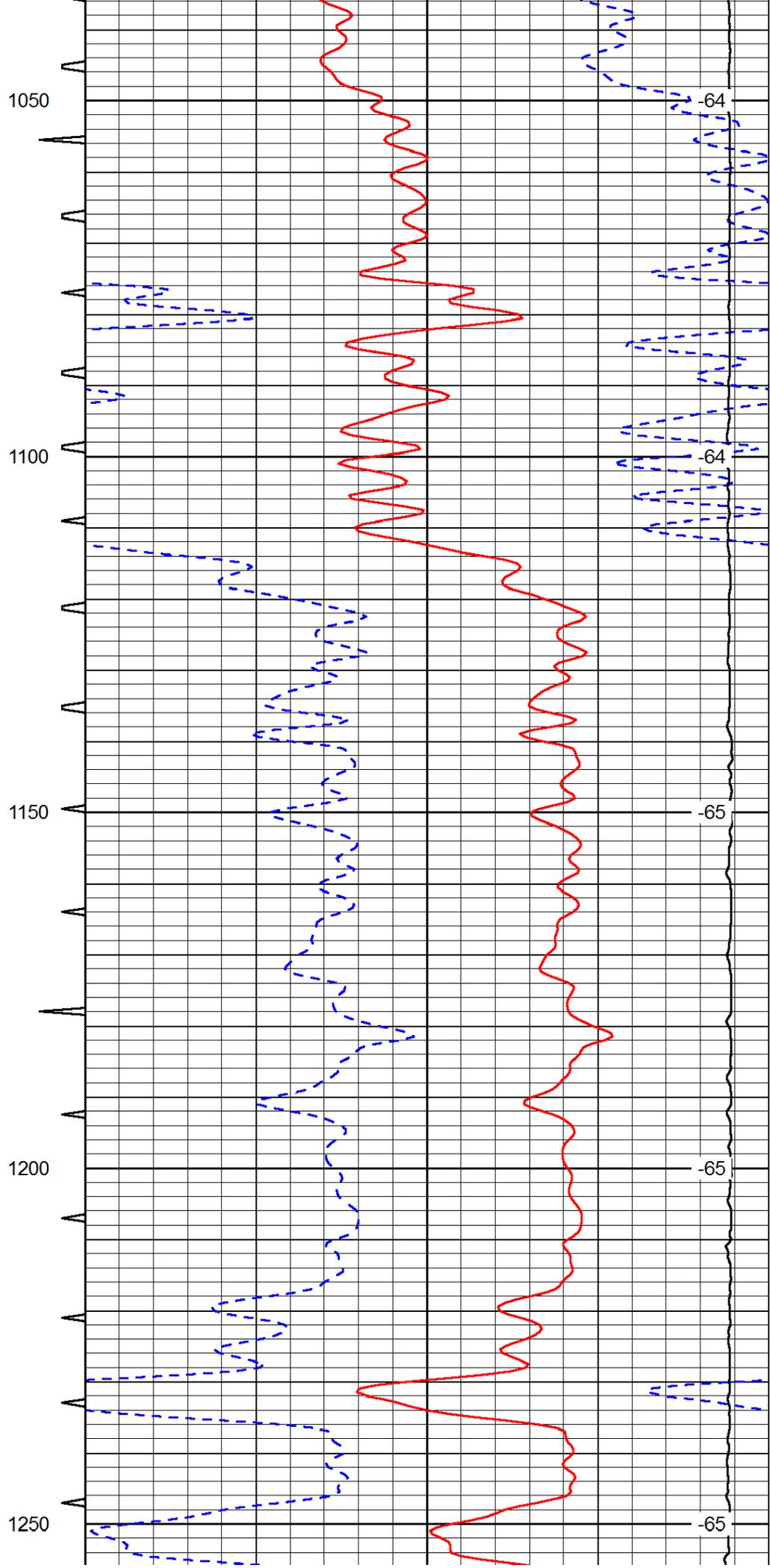
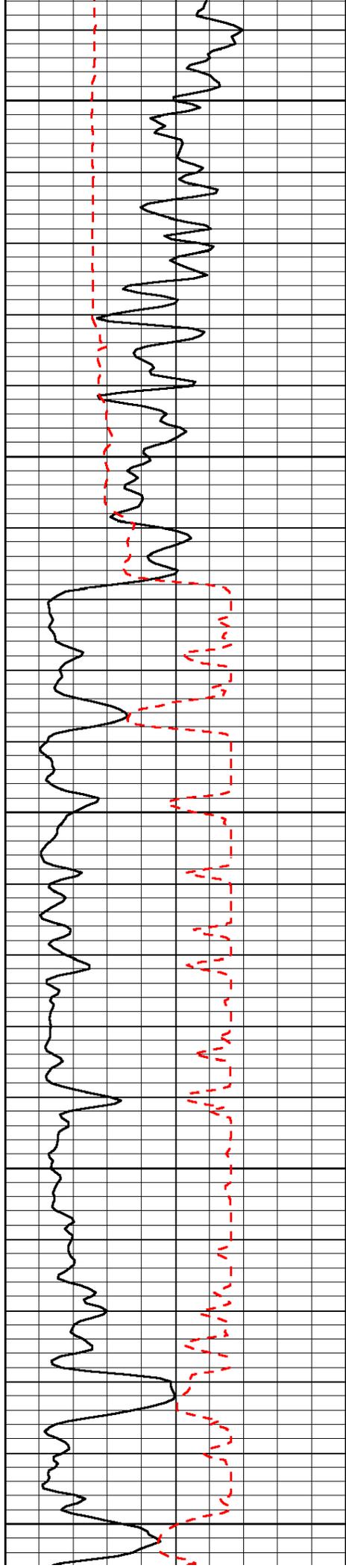
0	Gamma Ray	150	Sonic Int	140	Delta Time (usec/ft)	40
150	Gamma Ray	300	5	0	SPOR	-10
6	Caliper (GAPI)	16			LTEN (lb)	0

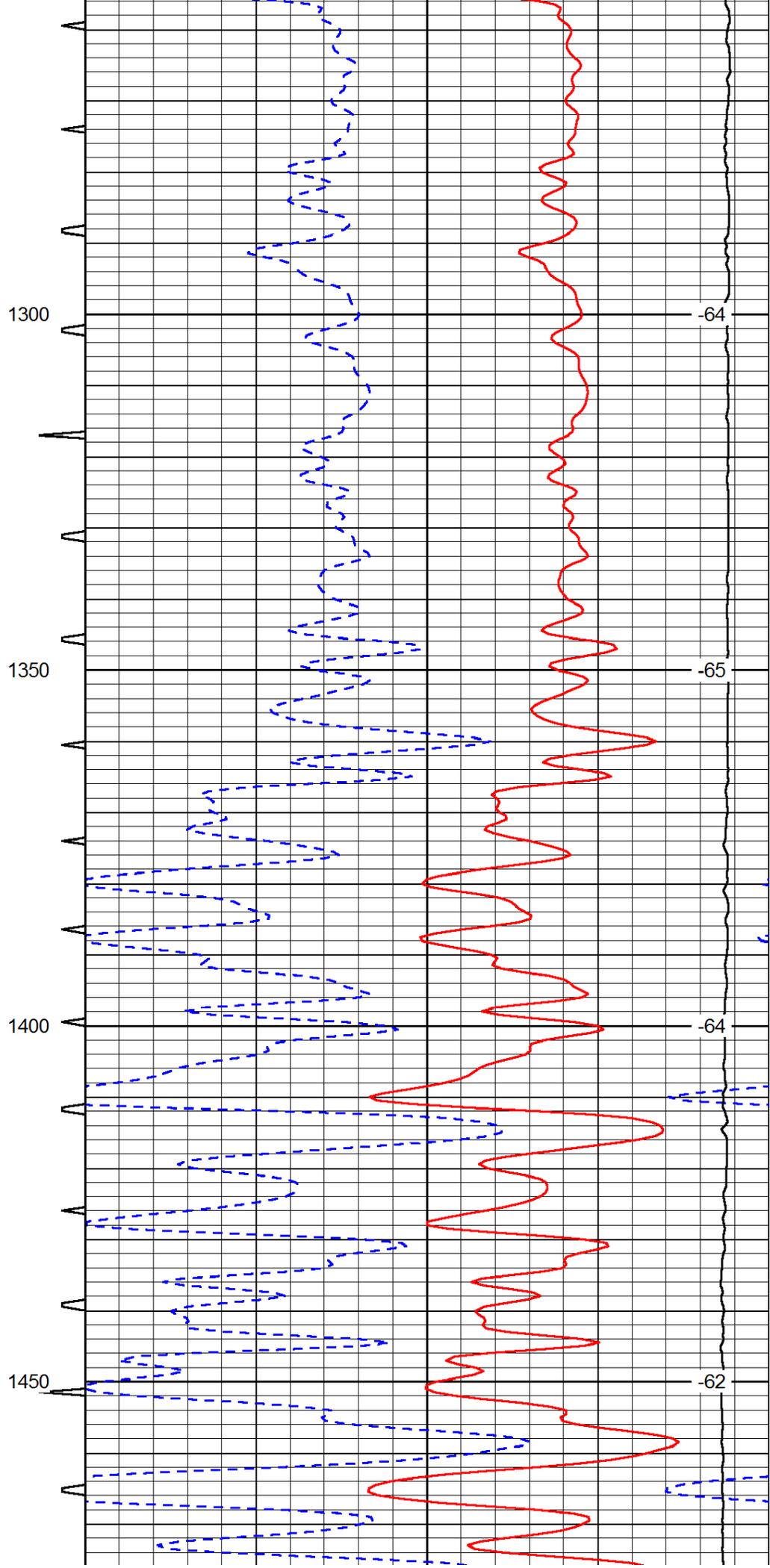
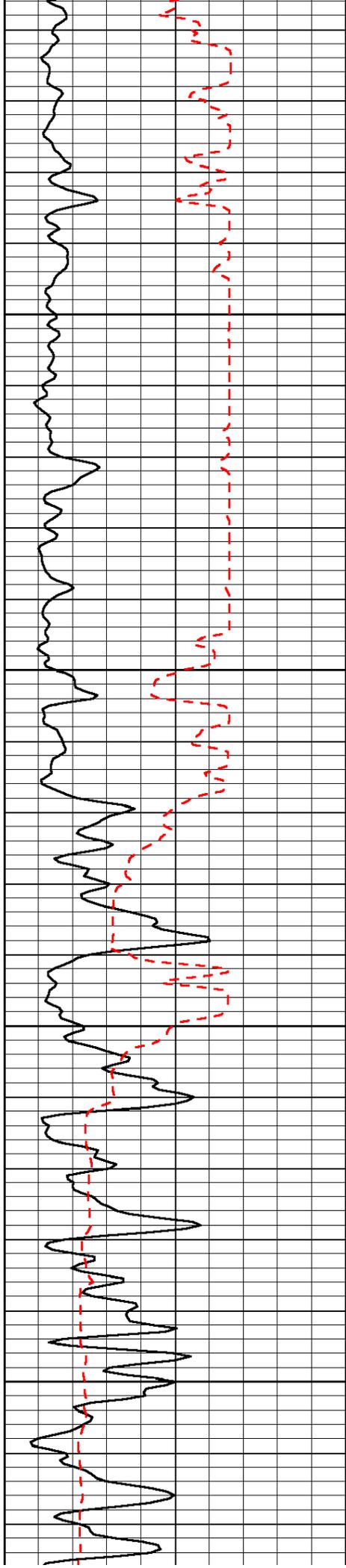
LSPD

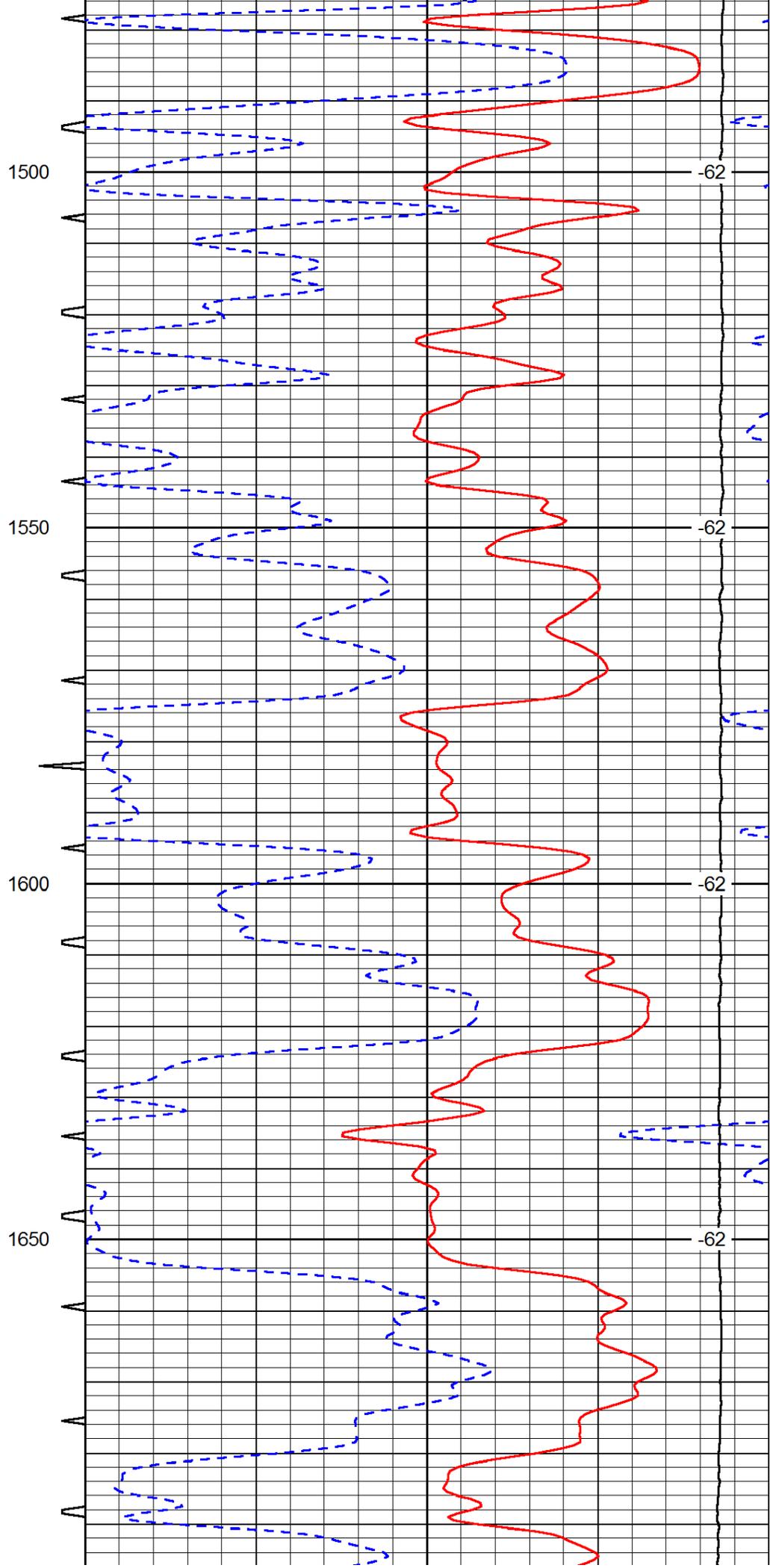
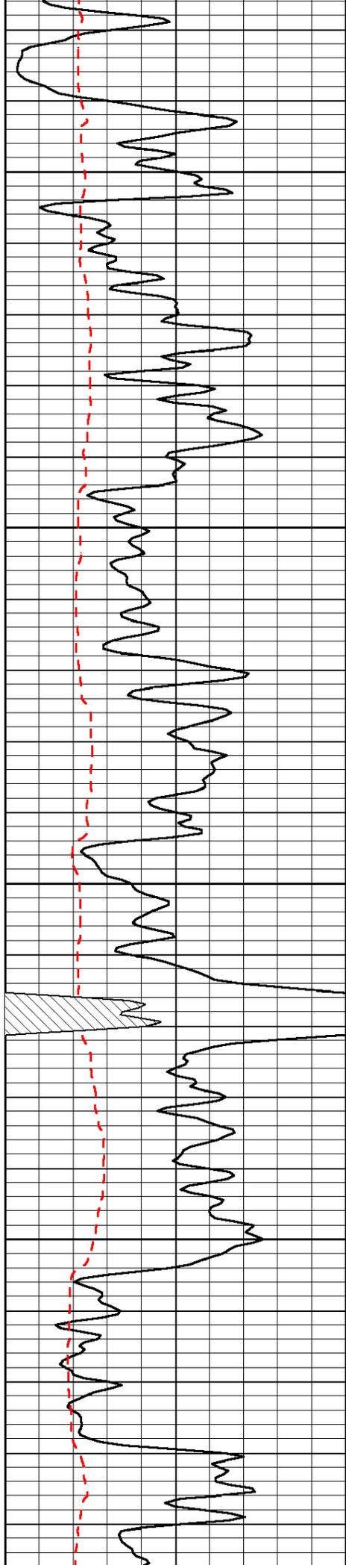


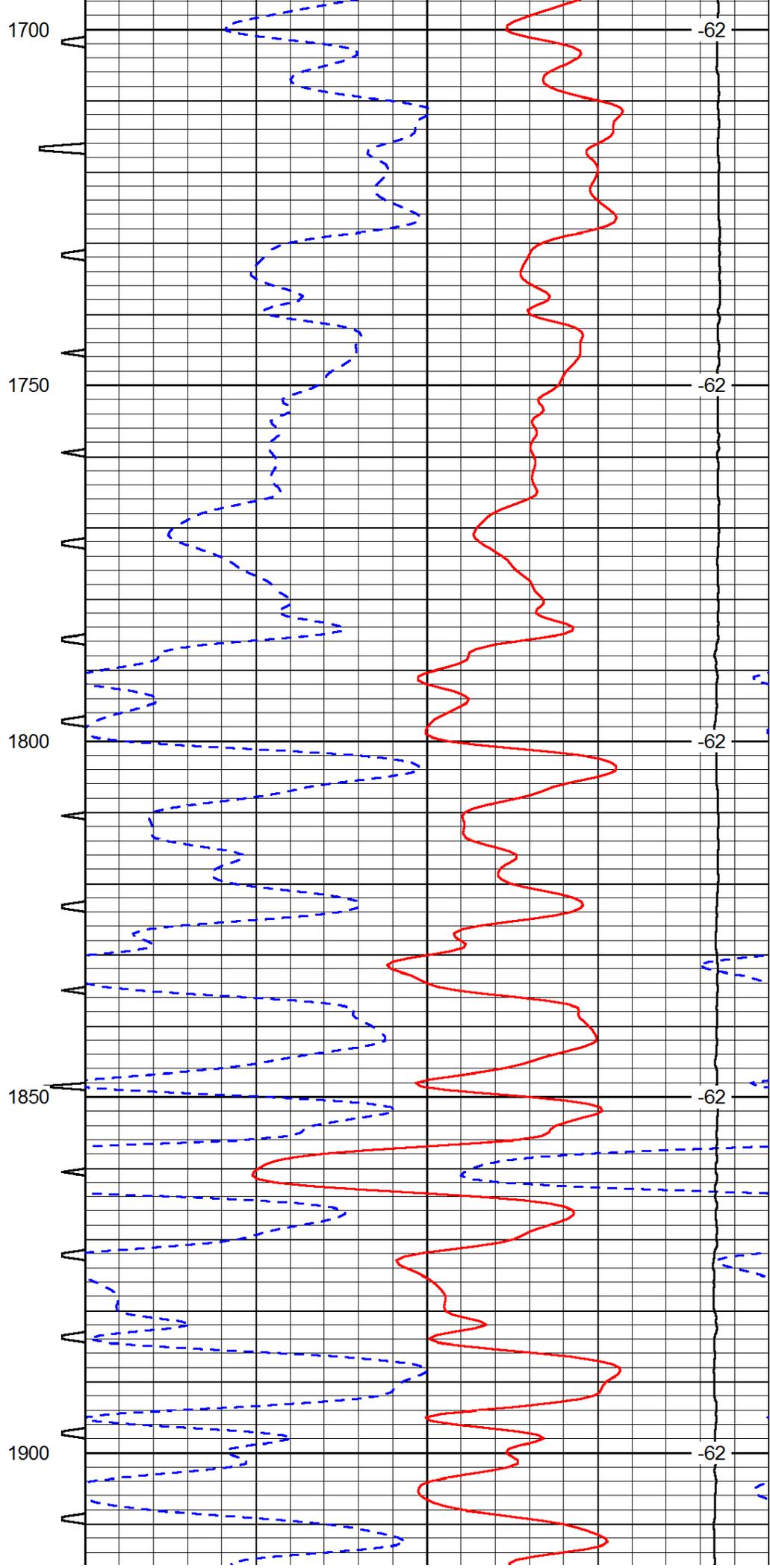
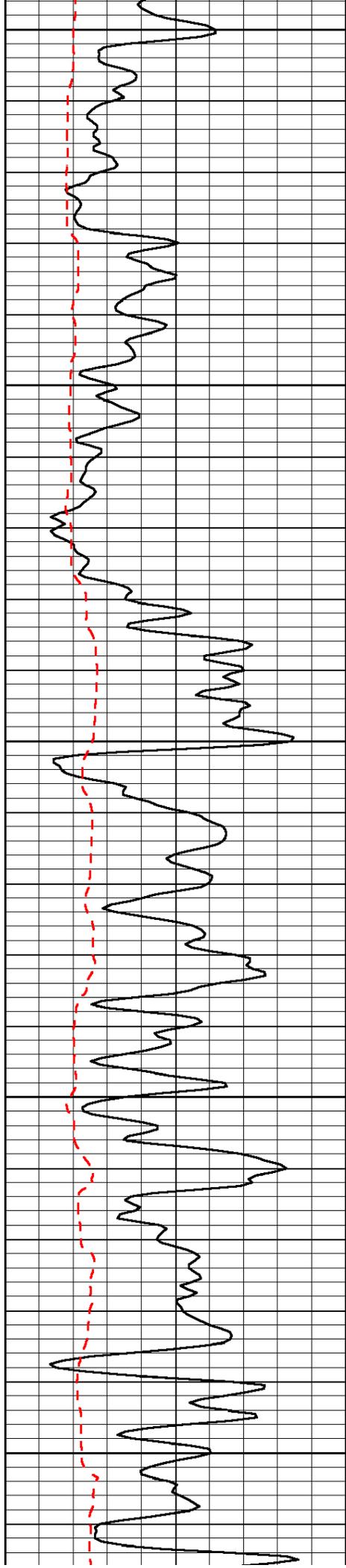


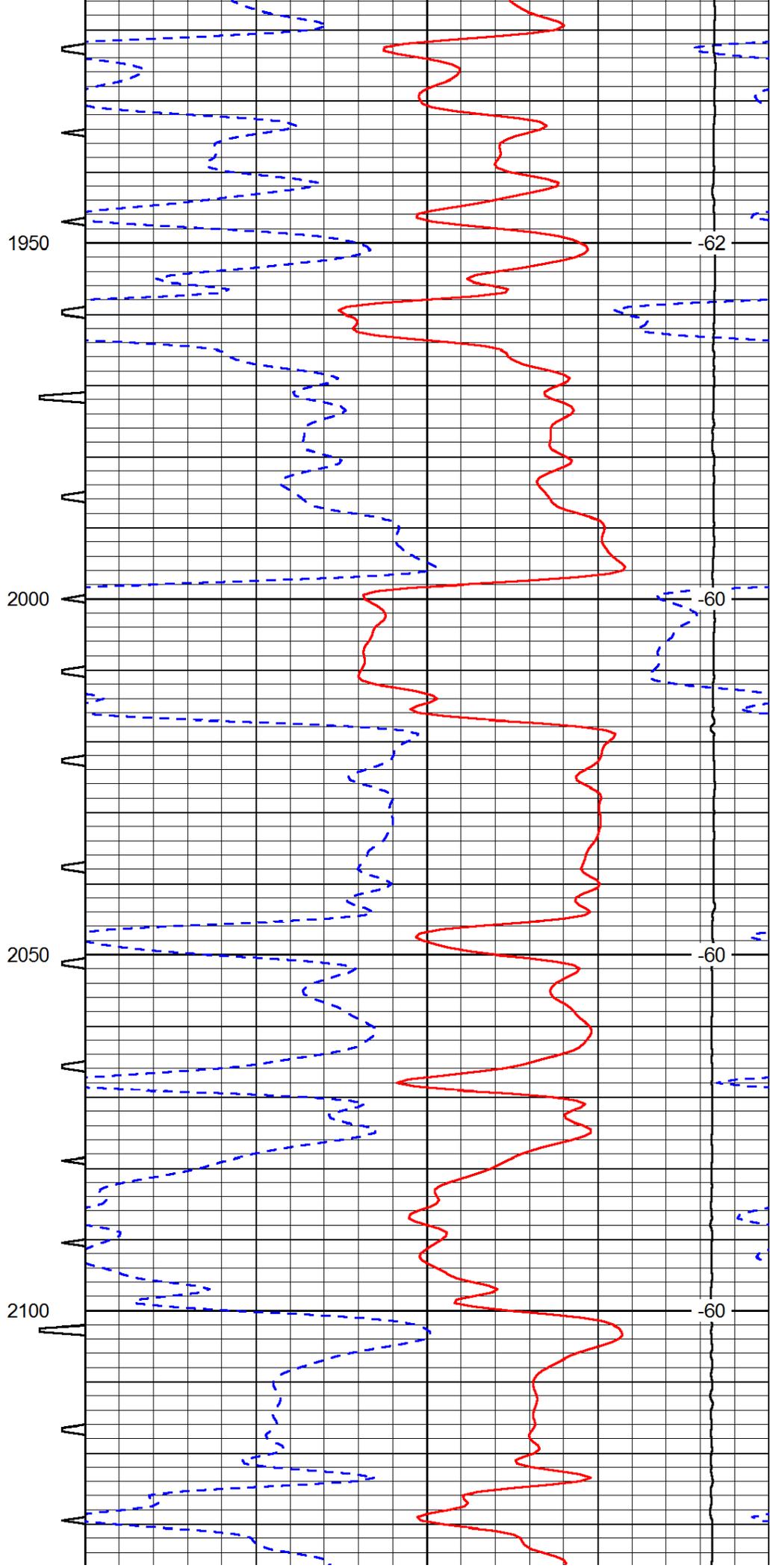
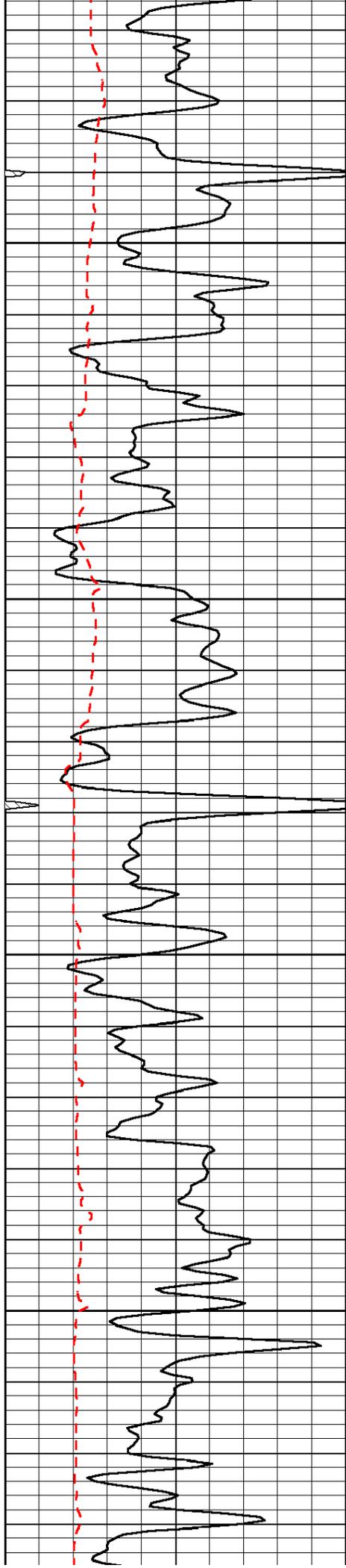


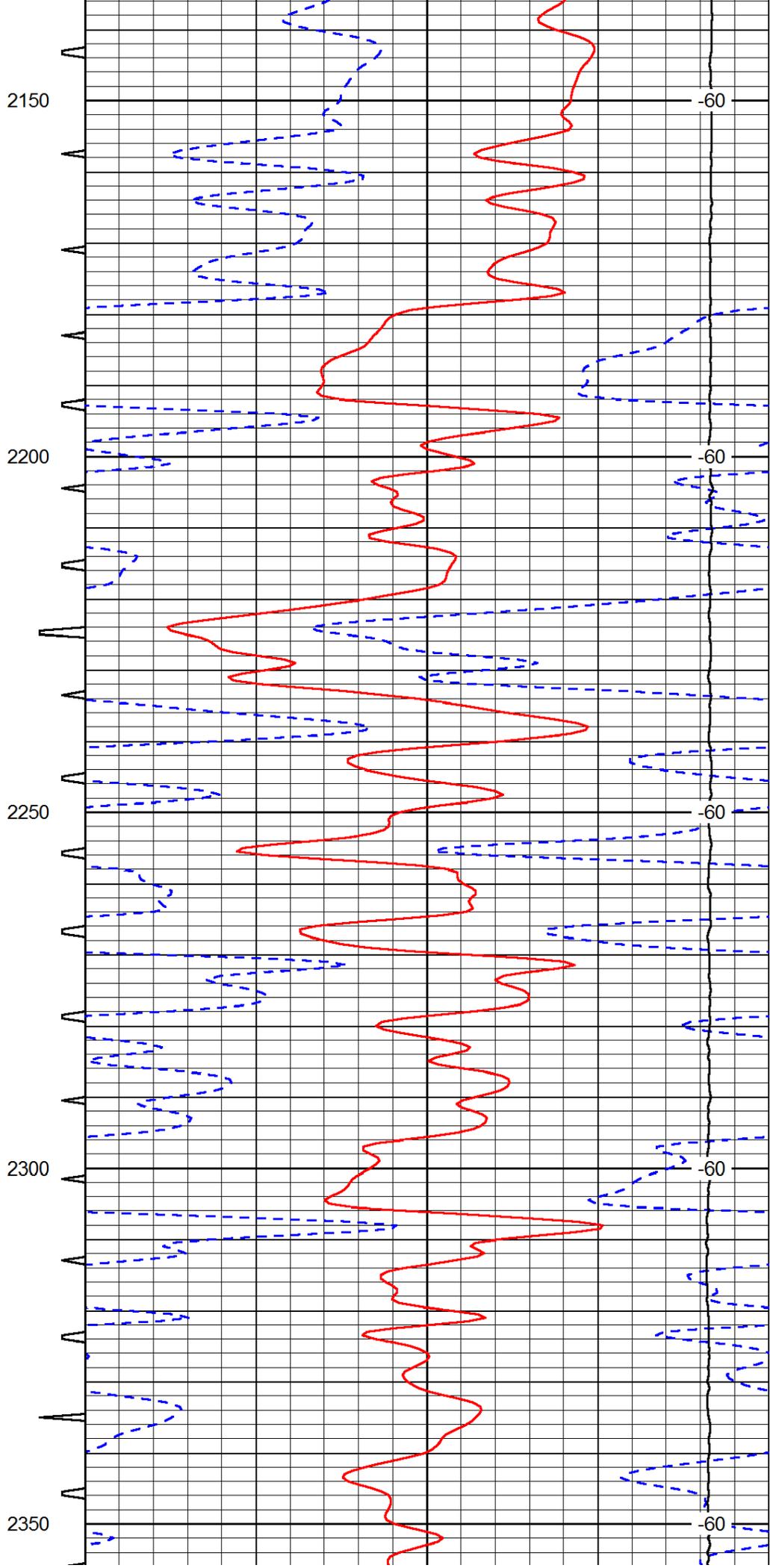
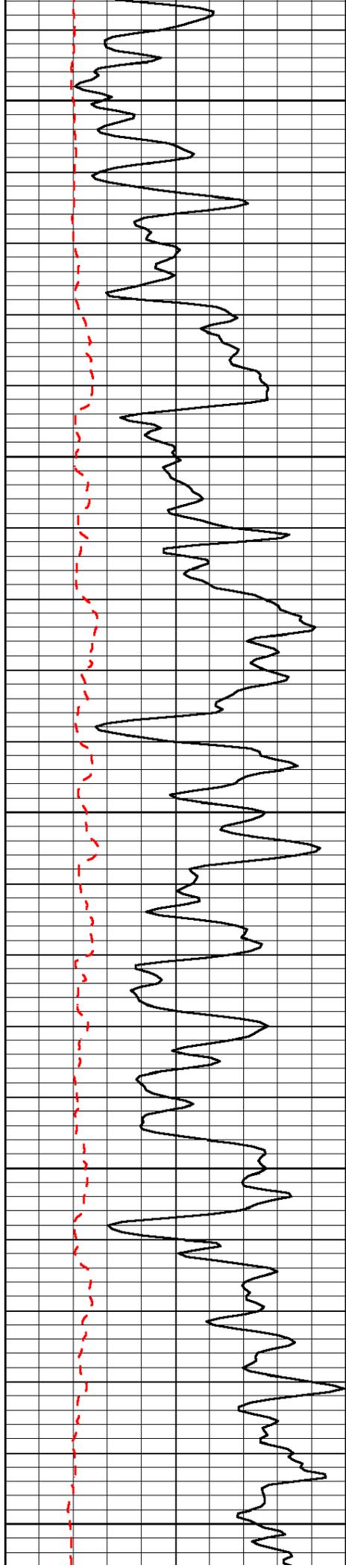


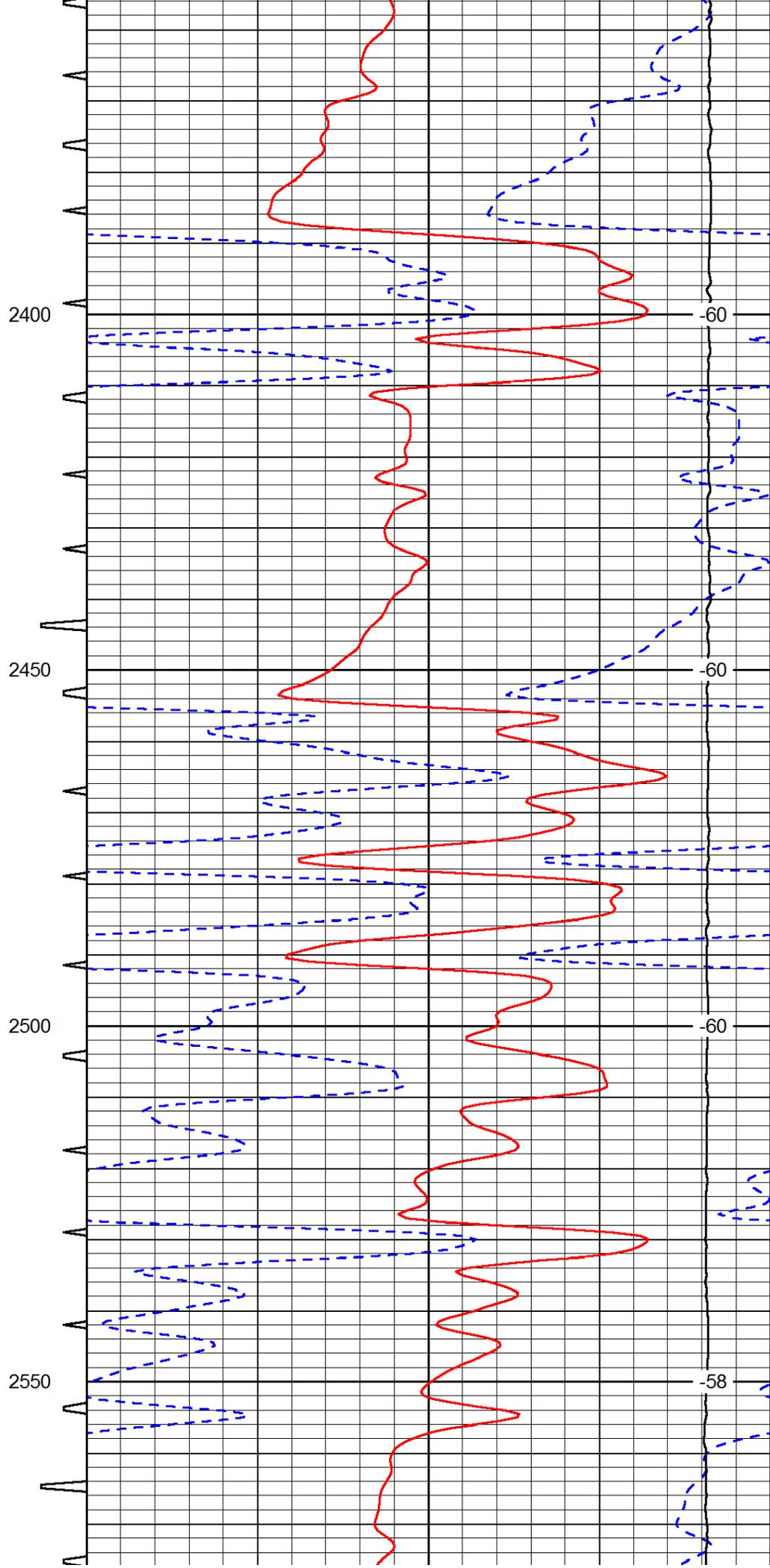
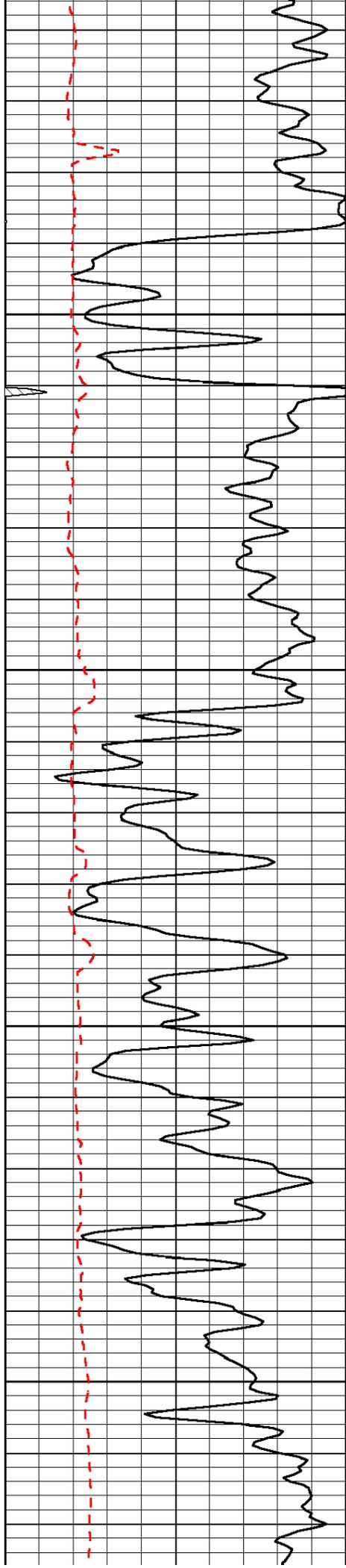


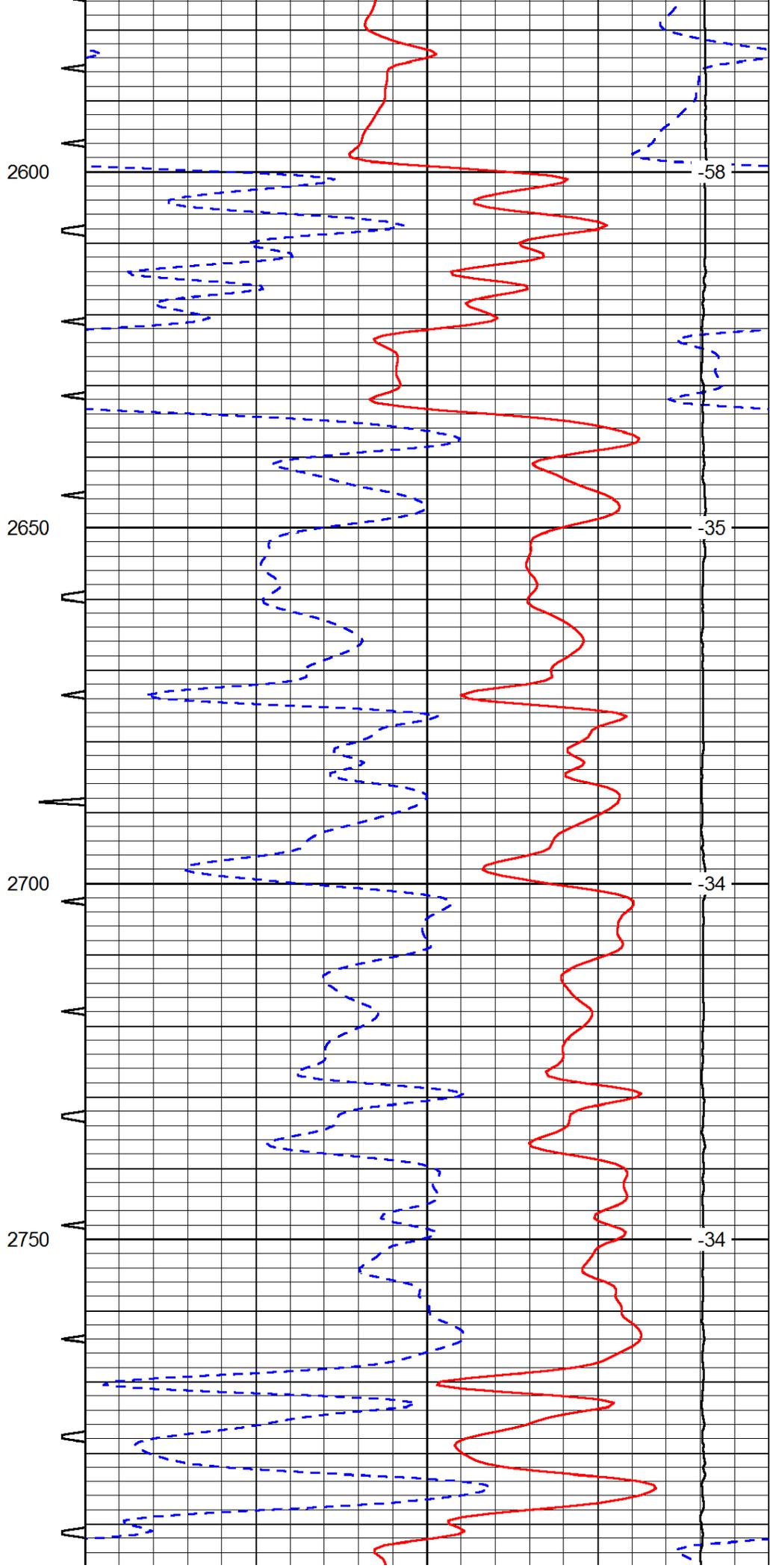
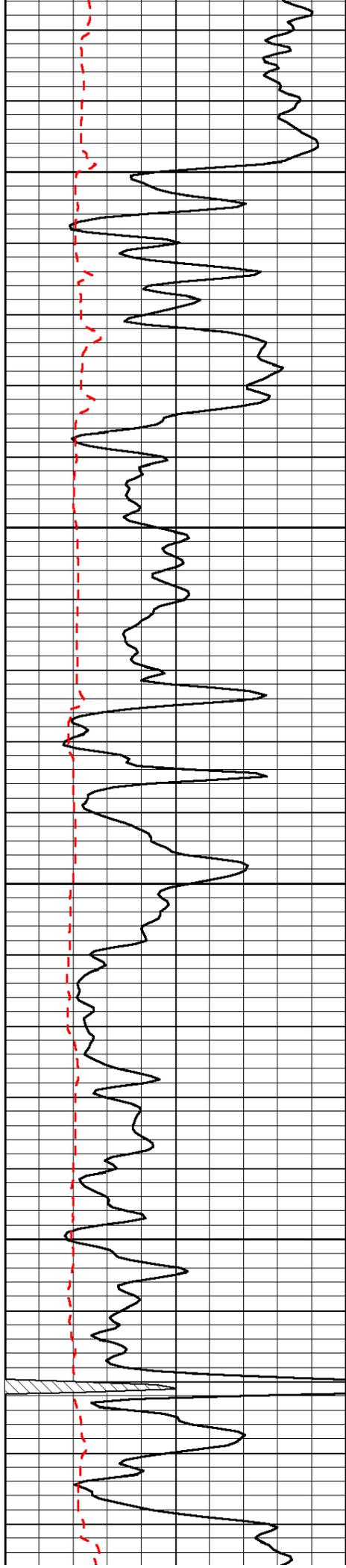


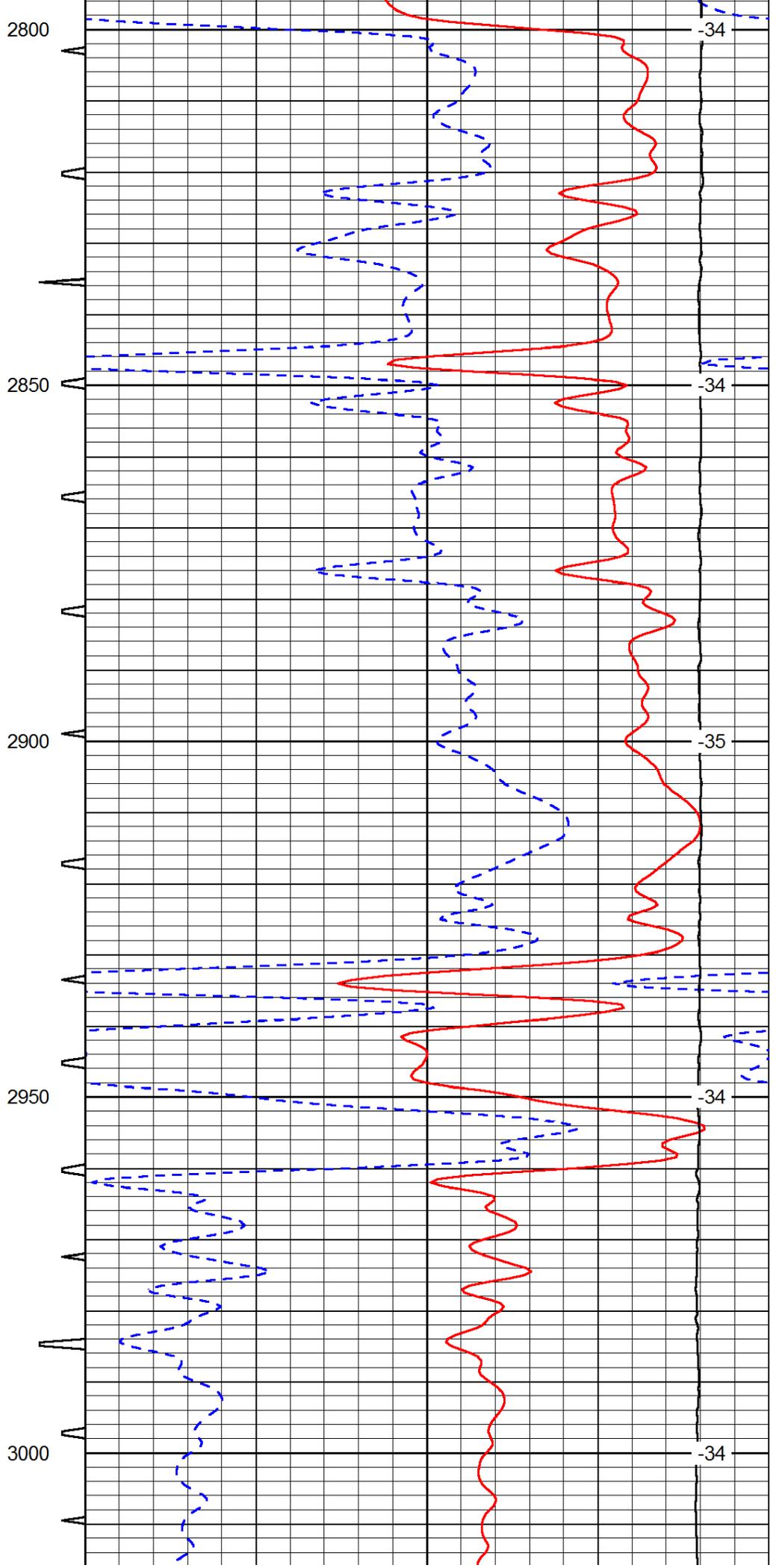
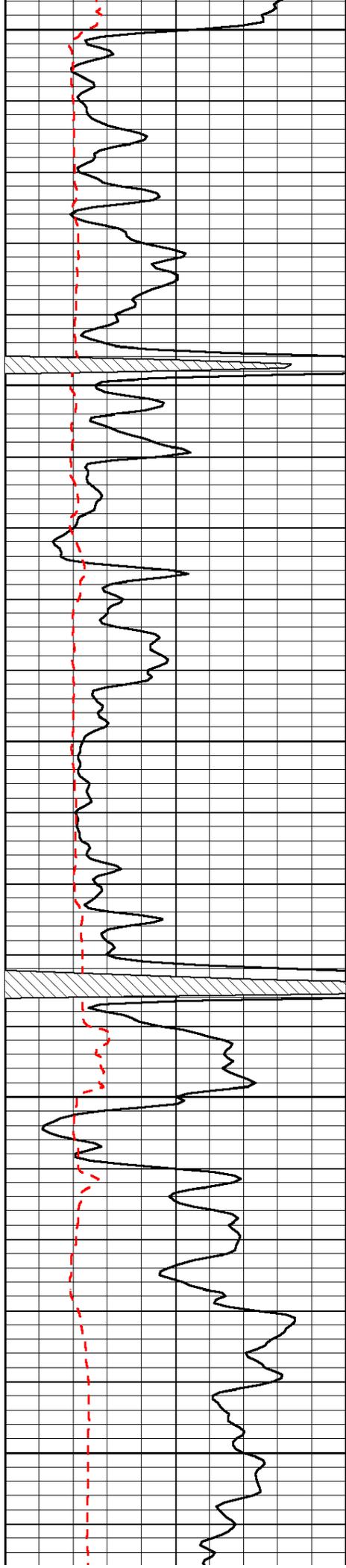


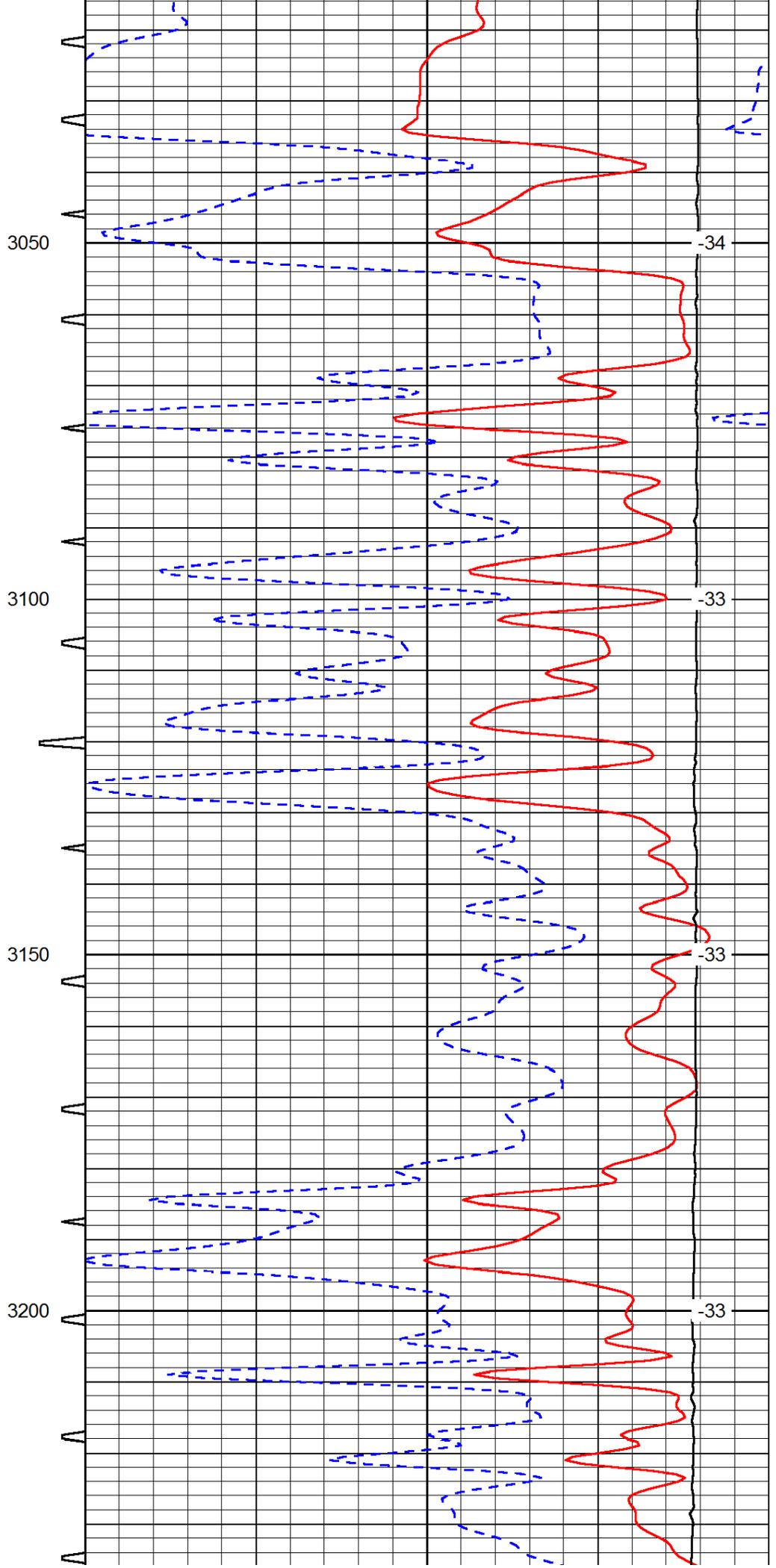
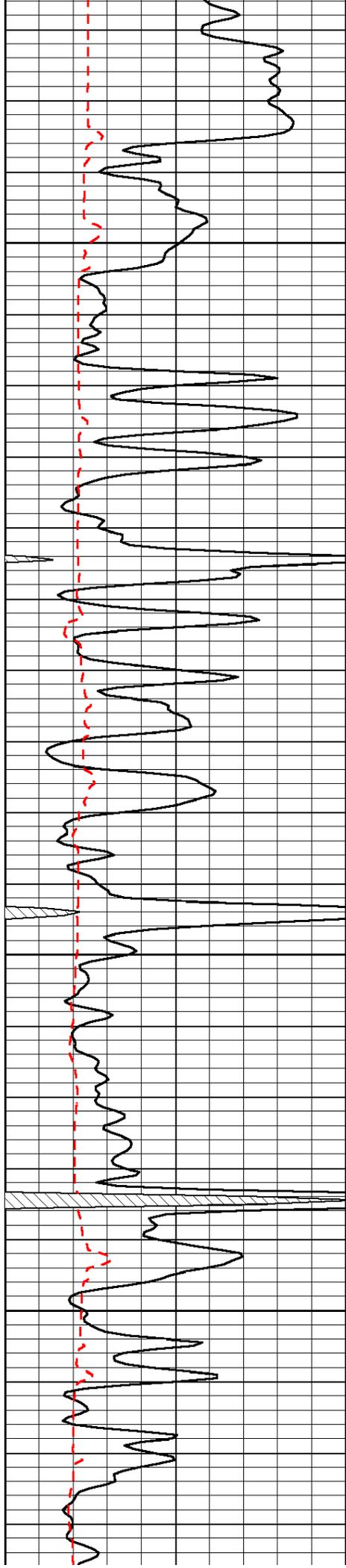


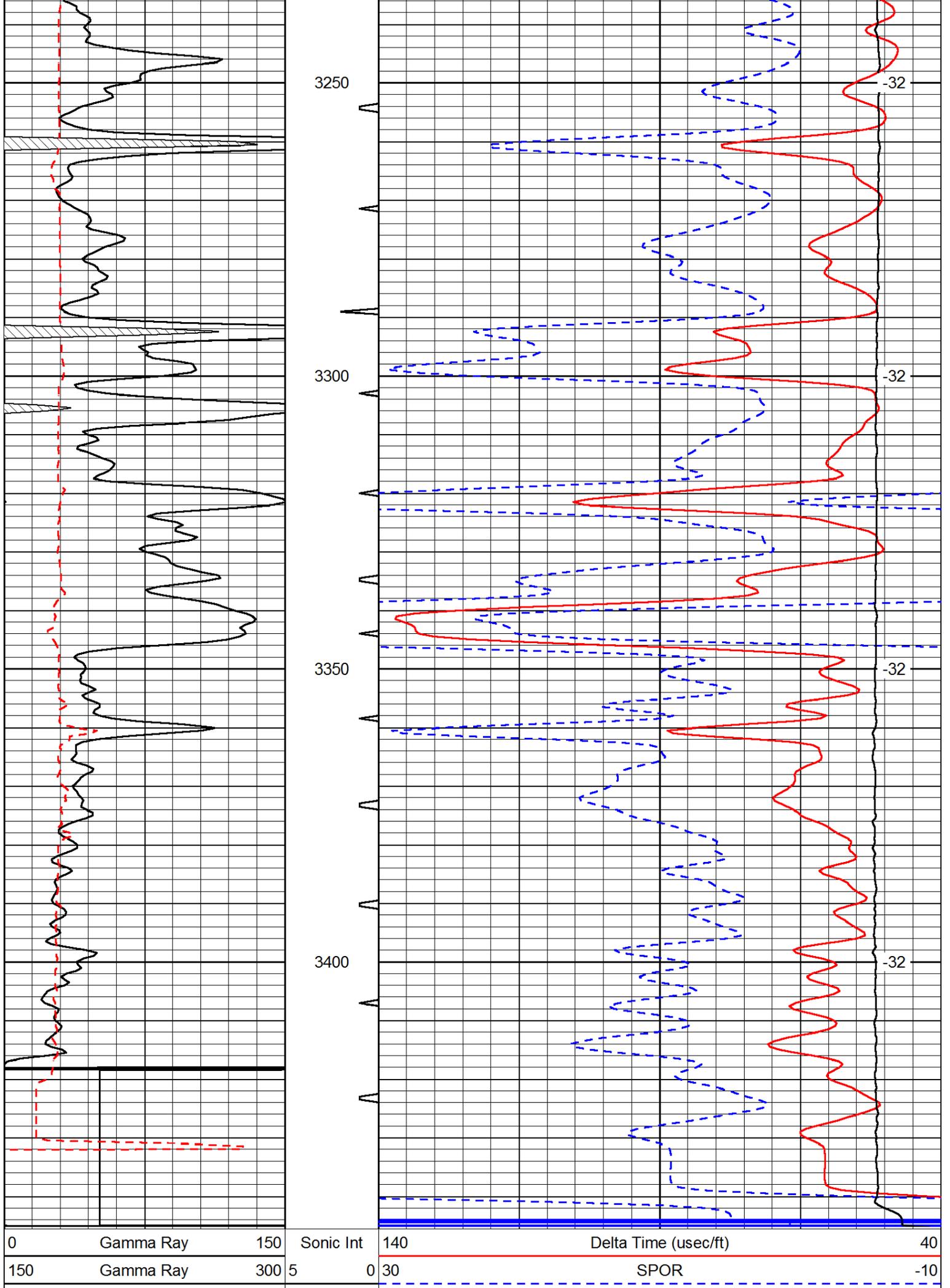












6

Caliper (GAPI)

16

15000

LTEN (lb)

0

LSPD