



Pioneer Energy Services

Borehole Compensated Sonic Log

API No. 15-159-22,815-00-00

Company **Bird Dog Oil, LLC**
 Well **Pioneer-Schubert No. 4-23**
 Field **Chase-Silica**
 County **Rice** State **Kansas**

Location **1005' FNL & 2130' FWL**

Sec: **23** Twp: **19S** Rge: **10W**

Other Services
CNL/CDL
MEL/DIL

Permanent Datum **Ground Level** Elevation **1740**
 Log Measured From **Kelly Bushing** **8** Ft. Above Perm. Datum
 Drilling Measured From **Kelly Bushing**

Elevation
K.B. **1748**
 D.F. **1740**
 G.L. **1740**

Date	12/19/14
Run Number	Two
Type Log	BHC Sonic
Depth Driller	3350
Depth Logger	3350
Bottom Logged Interval	3339
Top Logged Interval	300
Type Fluid In Hole	Chemical
Salinity, PPM CL	7,800
Density	9.2
Level	Full
Max. Rec. Temp. F	110
Operating Rig Time	4 Hours
Equipment -- Location	108 Hays
Recorded By	J. Henrickson
Witnessed By	Adam Nighswonger

Borehole Record		Casing Record				
Run No	Bit From	To	Size	Wgt.	From	To
One	12.25	00	333	8.625	23#	333
Two	7.875	333	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.

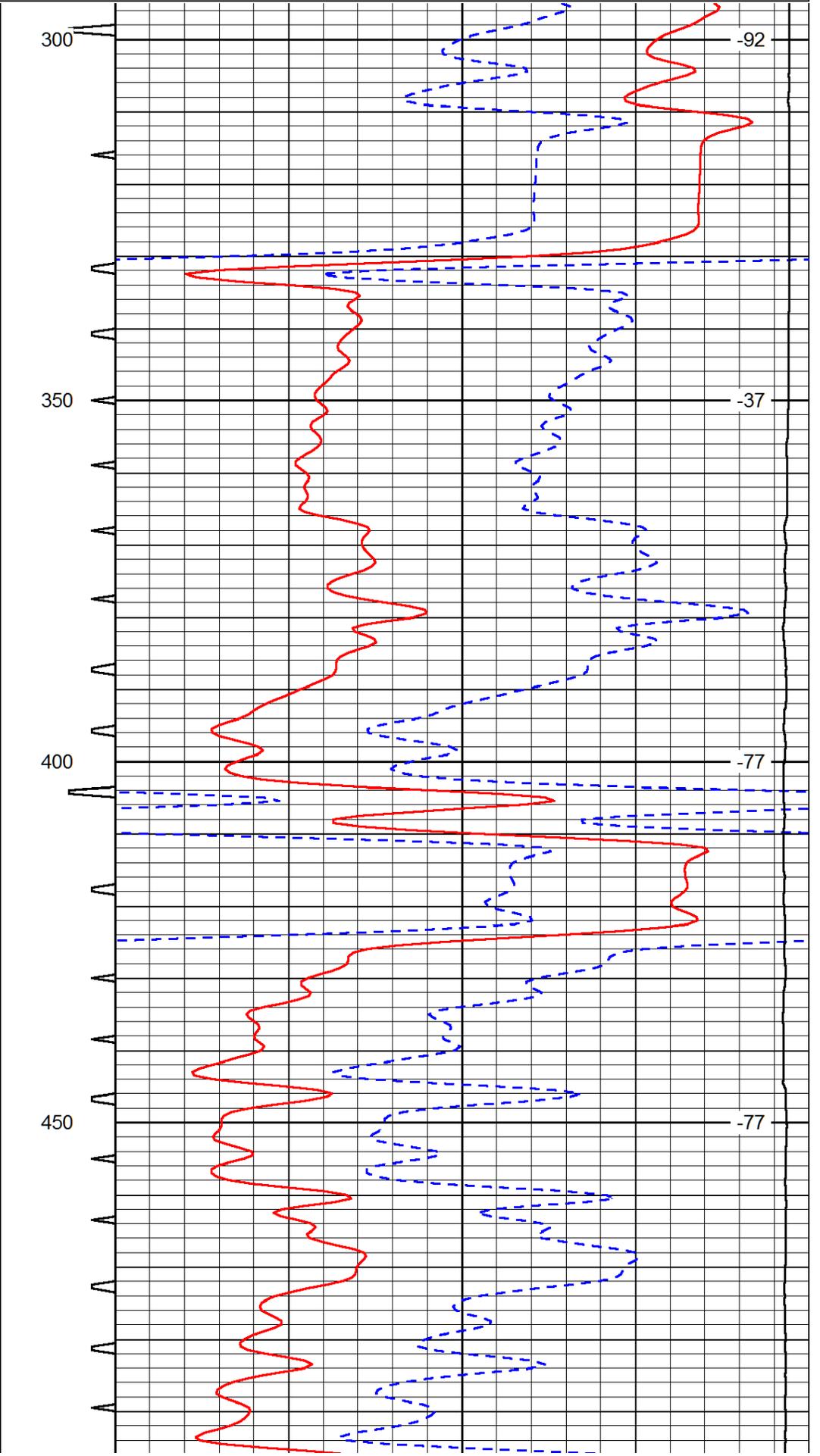
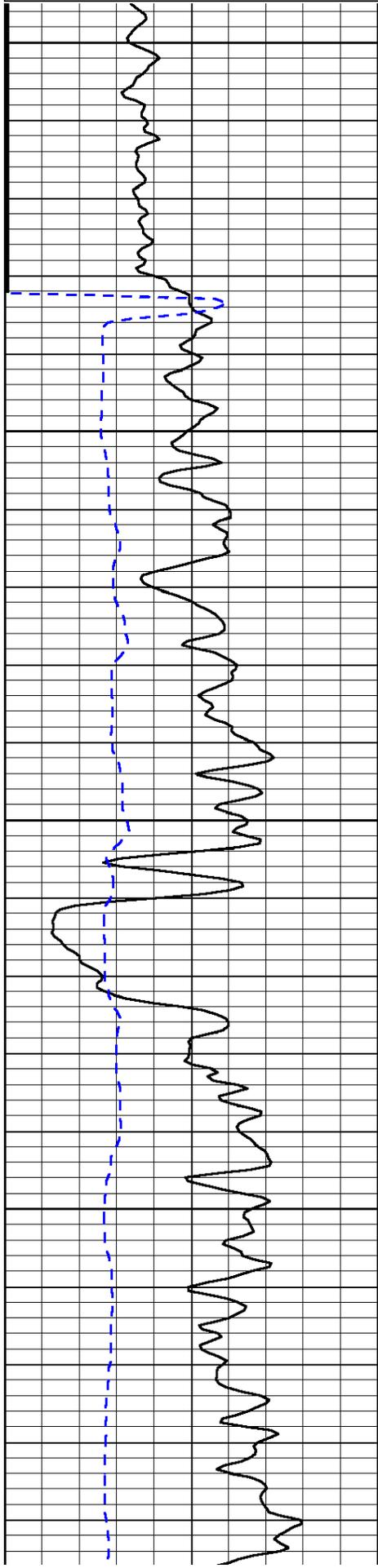
Comments

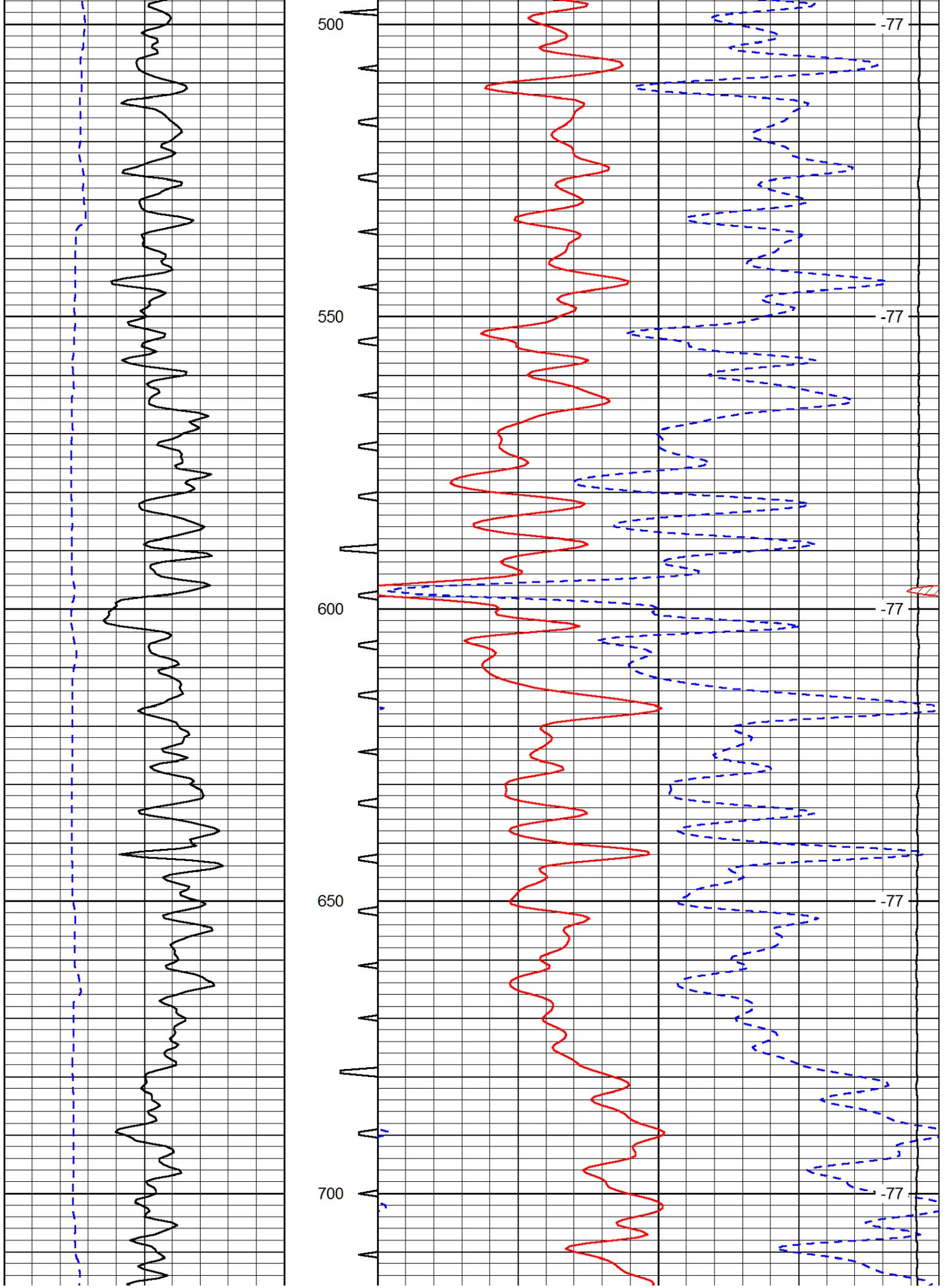
Thank you for using Log-Tech, Inc.
 (785) 625-3858

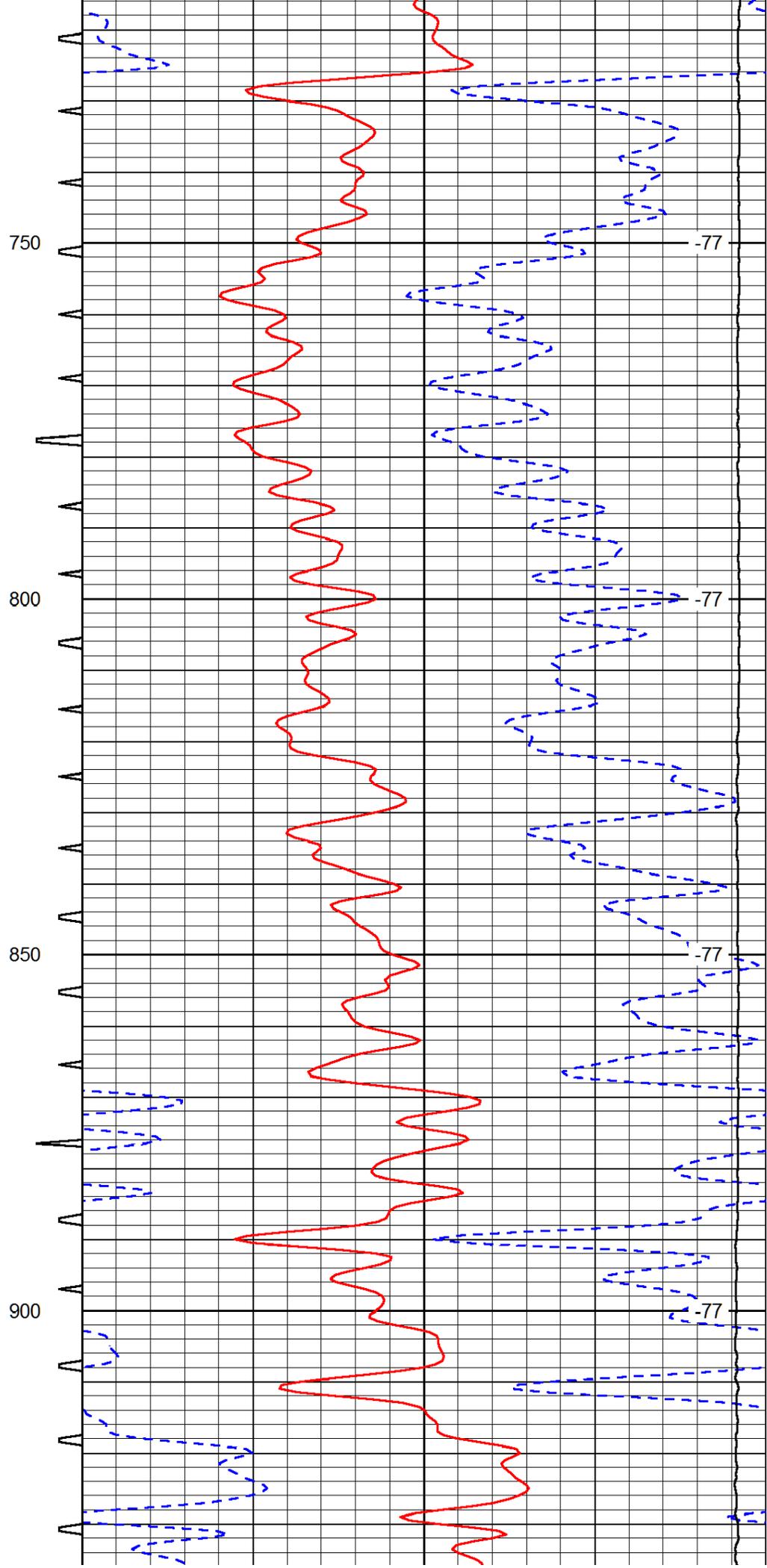
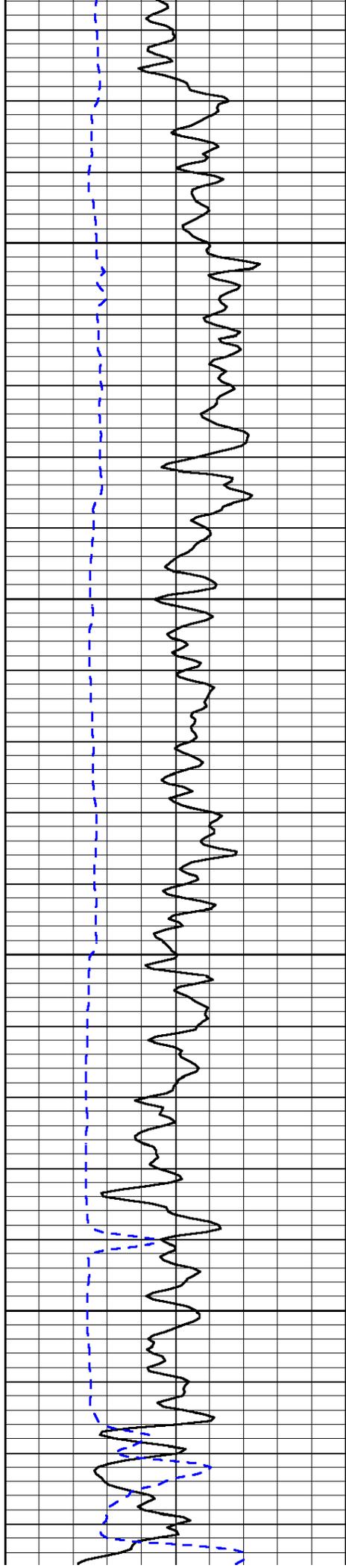
Ellinwood Kansas
 9 East to 5 Rd, 3 North, 1/2 East, South Into

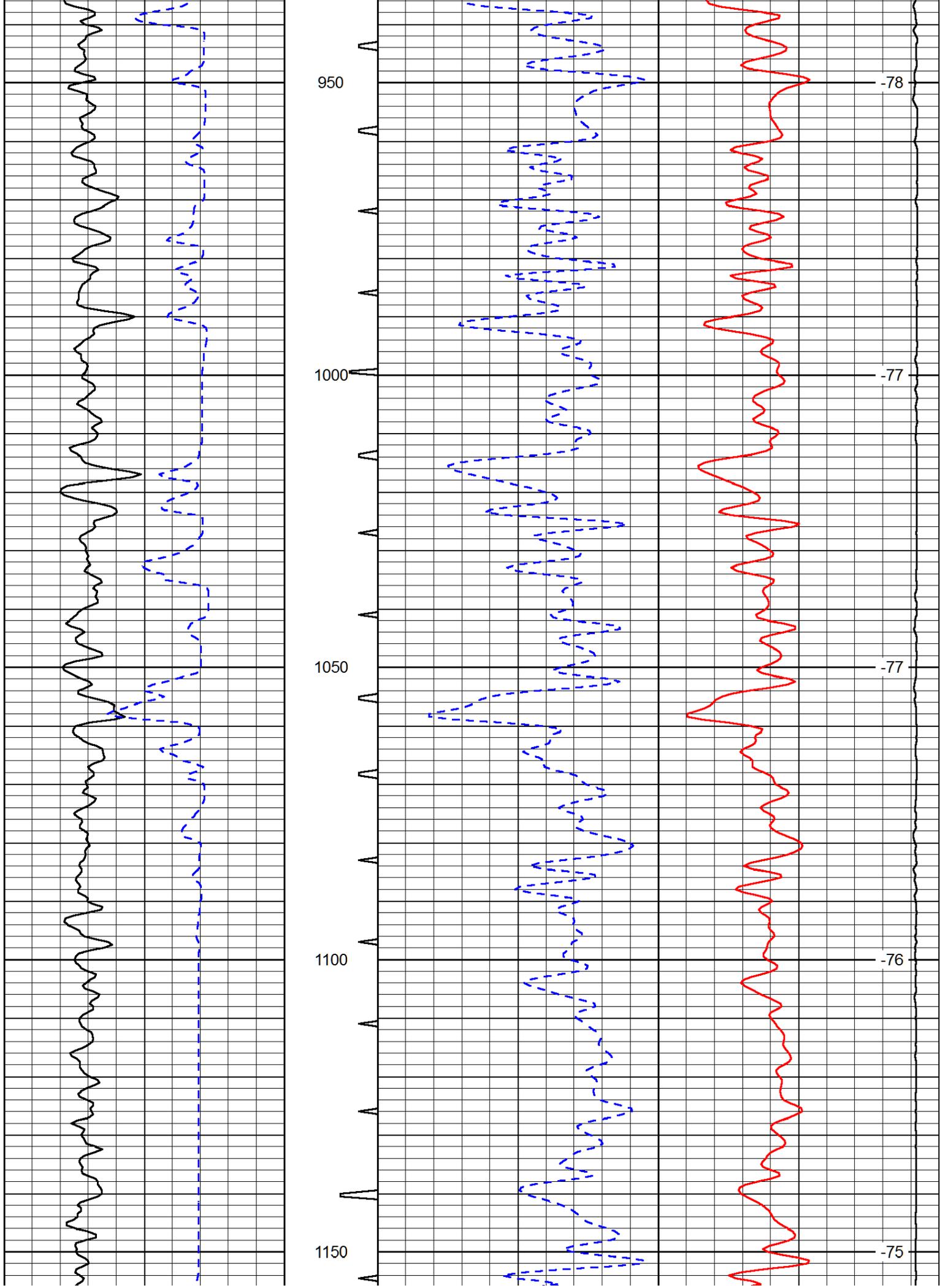
Database File: birddogoil_pioneer_schubert_4_23hd.db
 Dataset Pathname: DIL/bdstk
 Presentation Format: sonic
 Dataset Creation: Fri Dec 19 06:49:49 2014
 Charted by: Depth in Feet scaled 1:240

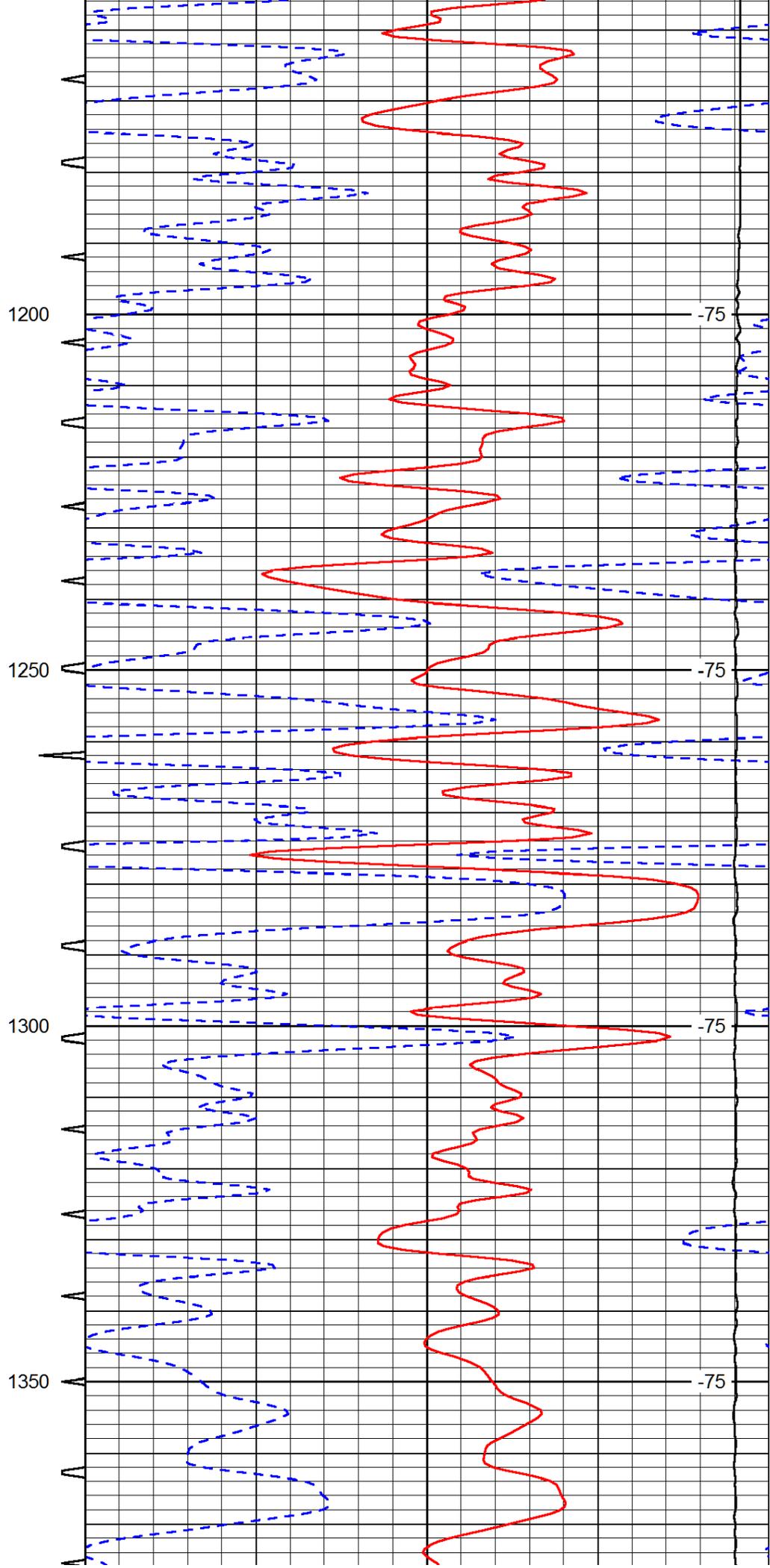
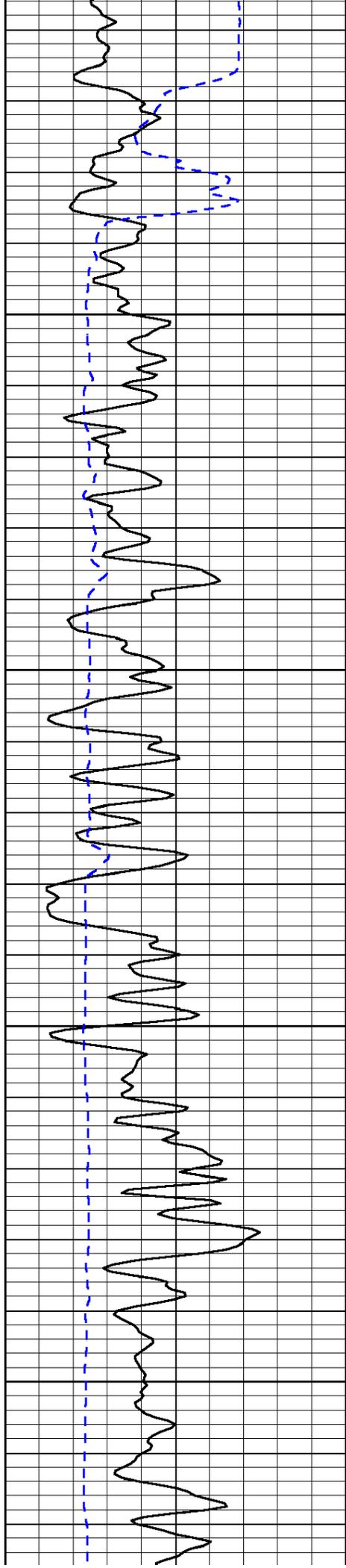
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150	Gamma Ray	300	5	0	Sonic Porosity	-10
6	dCAL (GAPI)	16		15000	LTEN (lb)	0
LSPD						

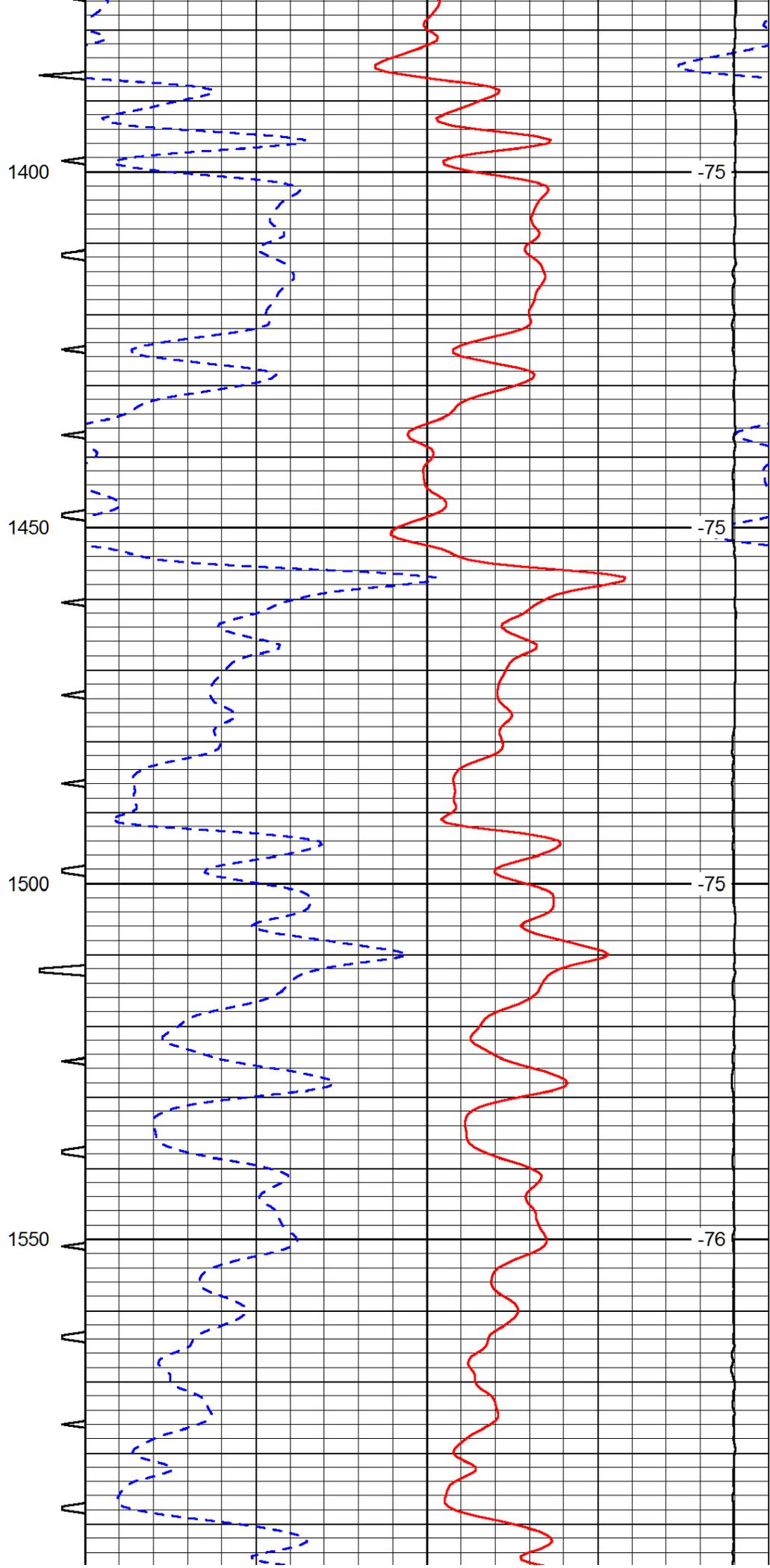
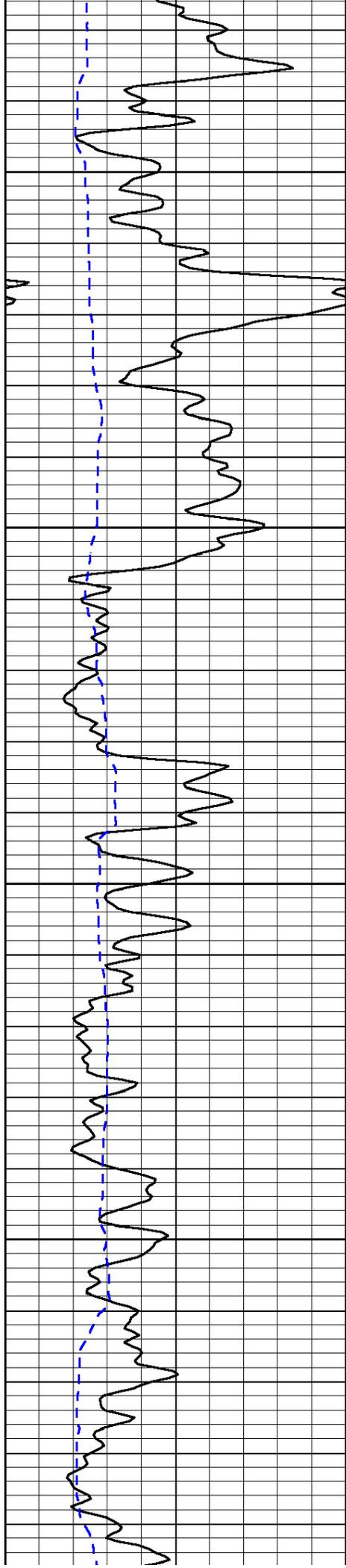


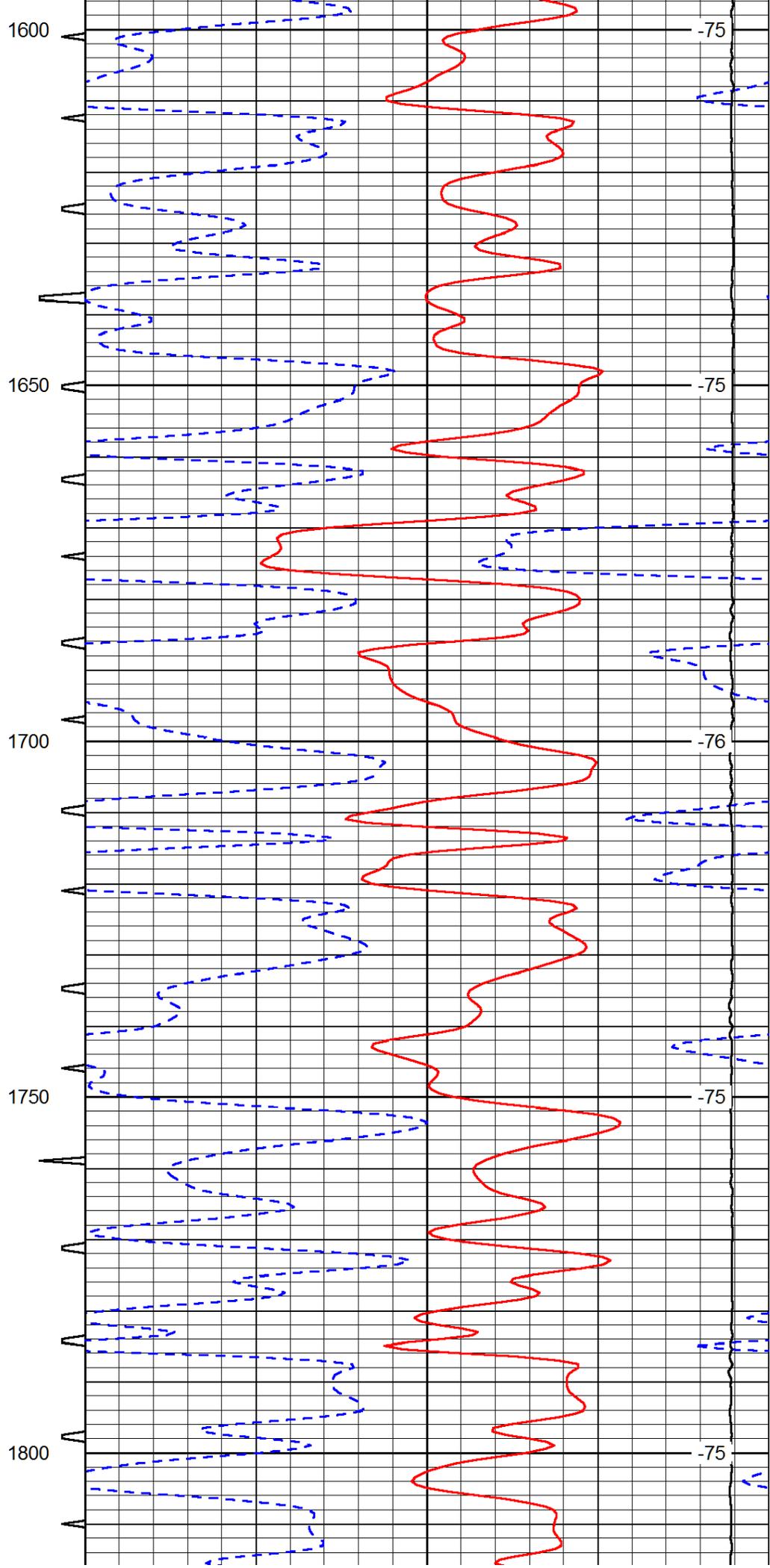
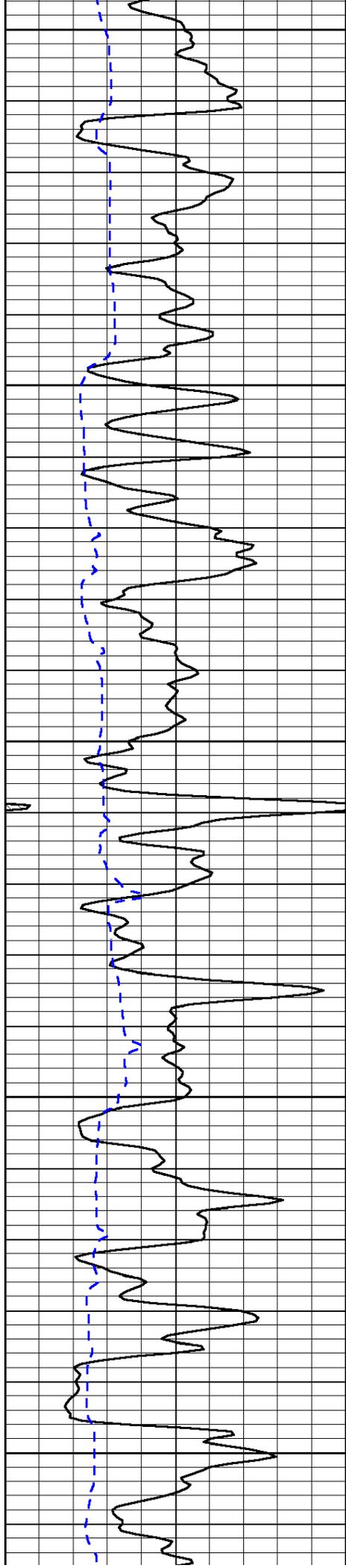


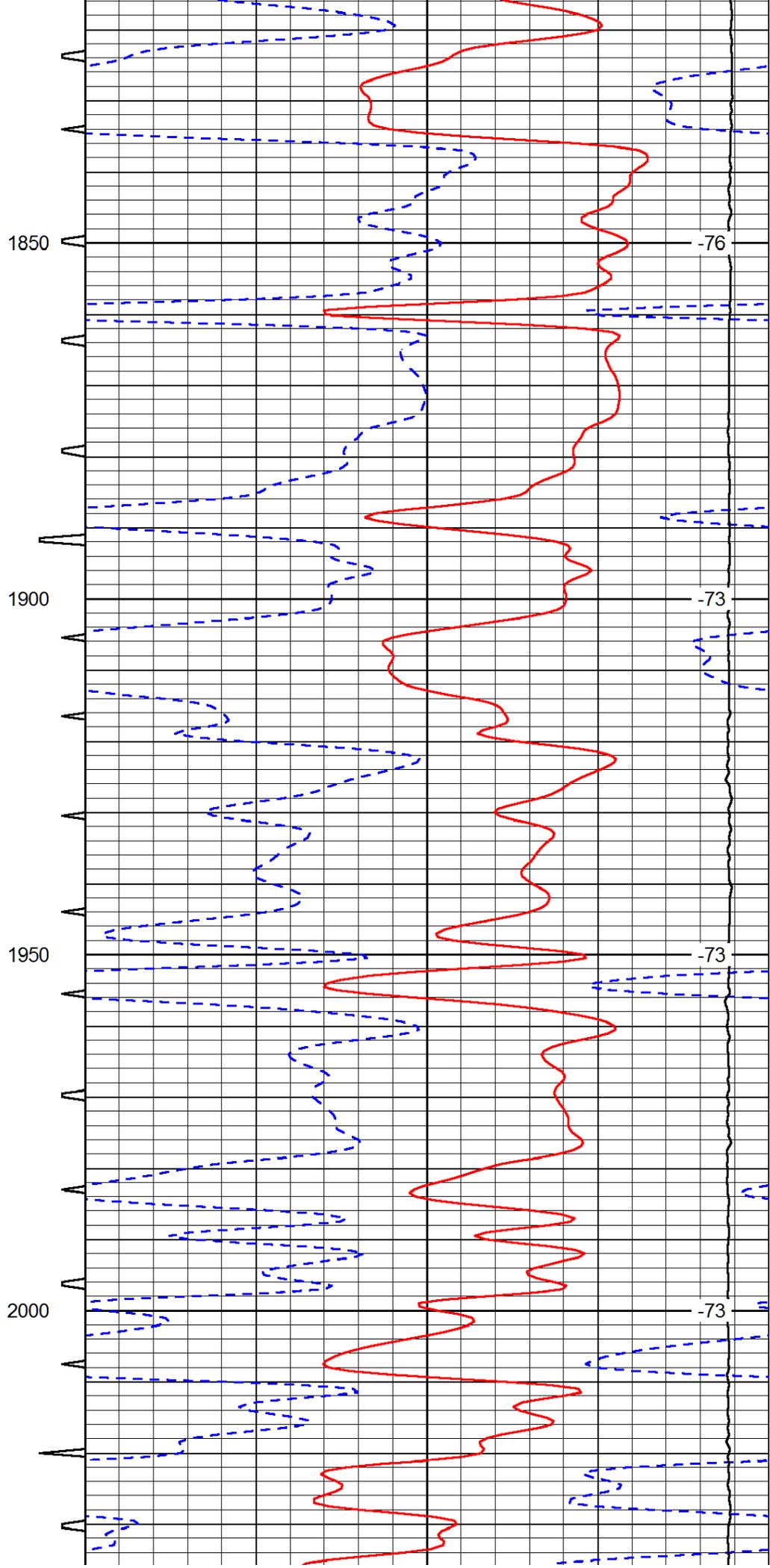
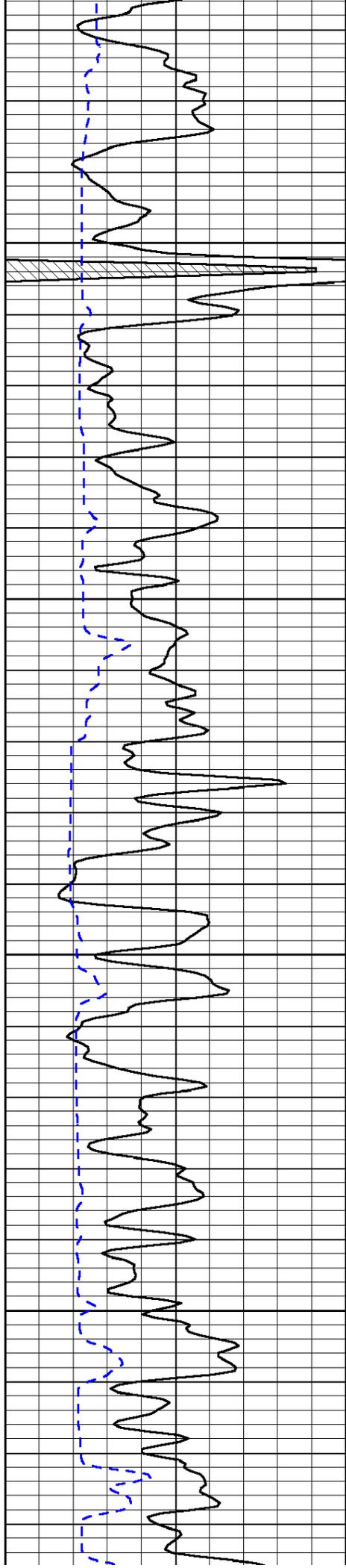


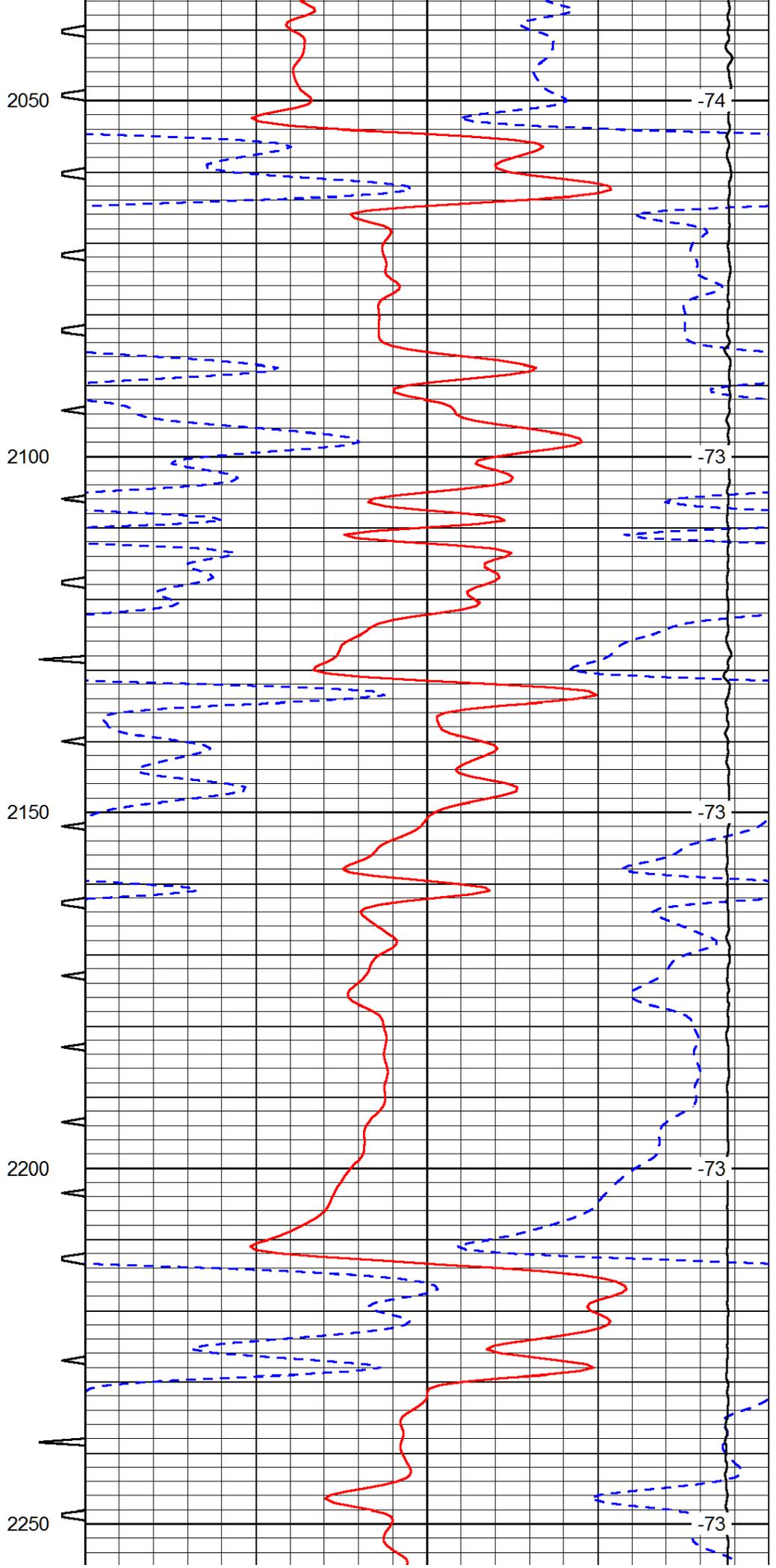
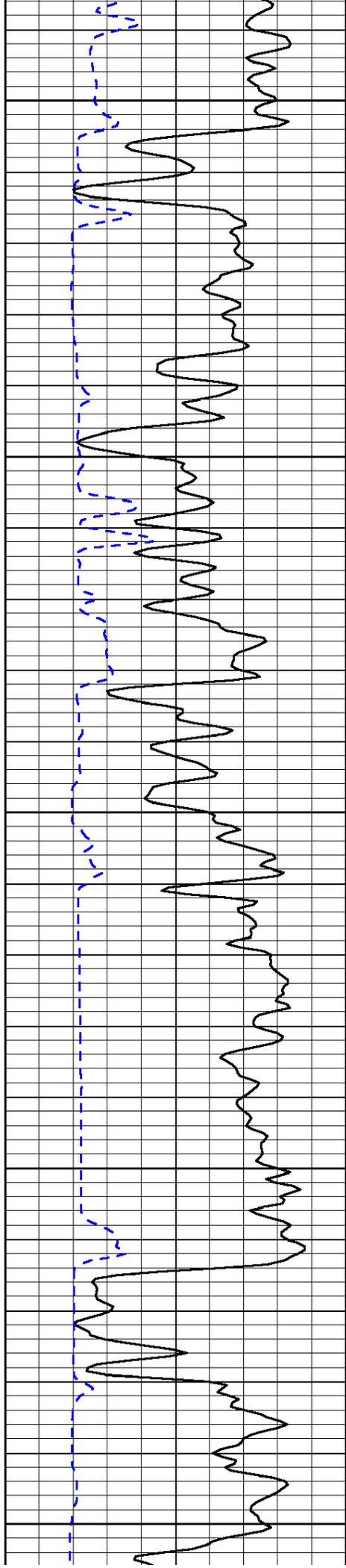


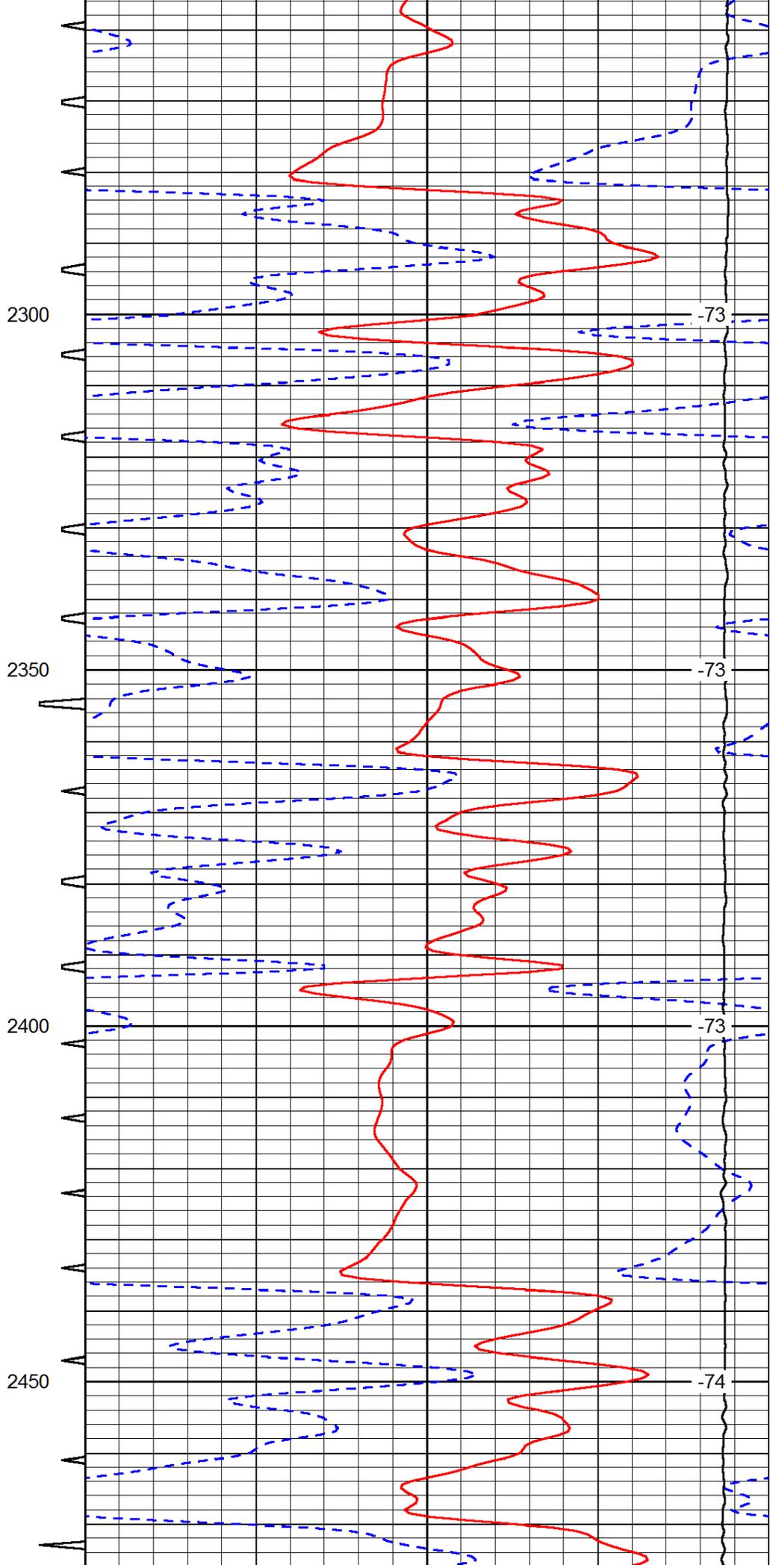
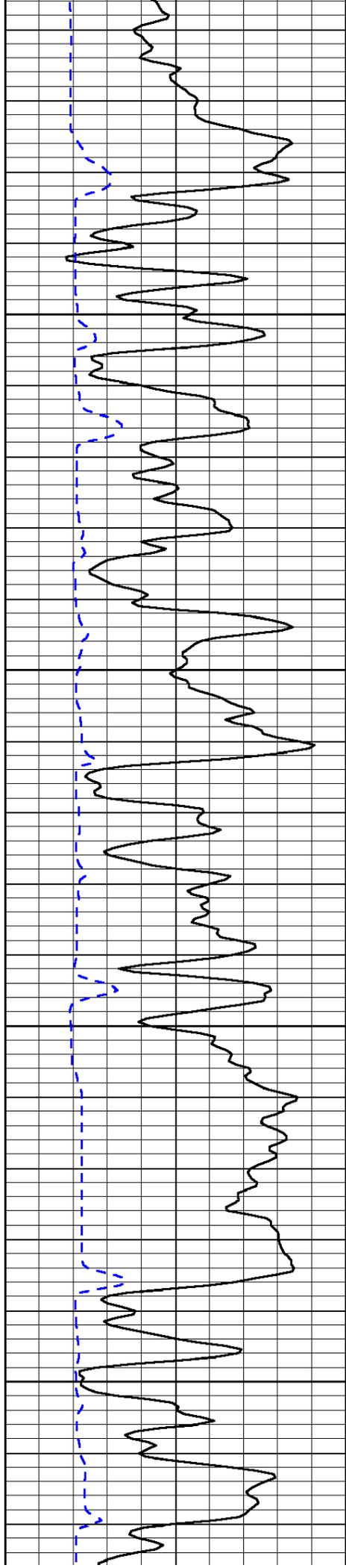


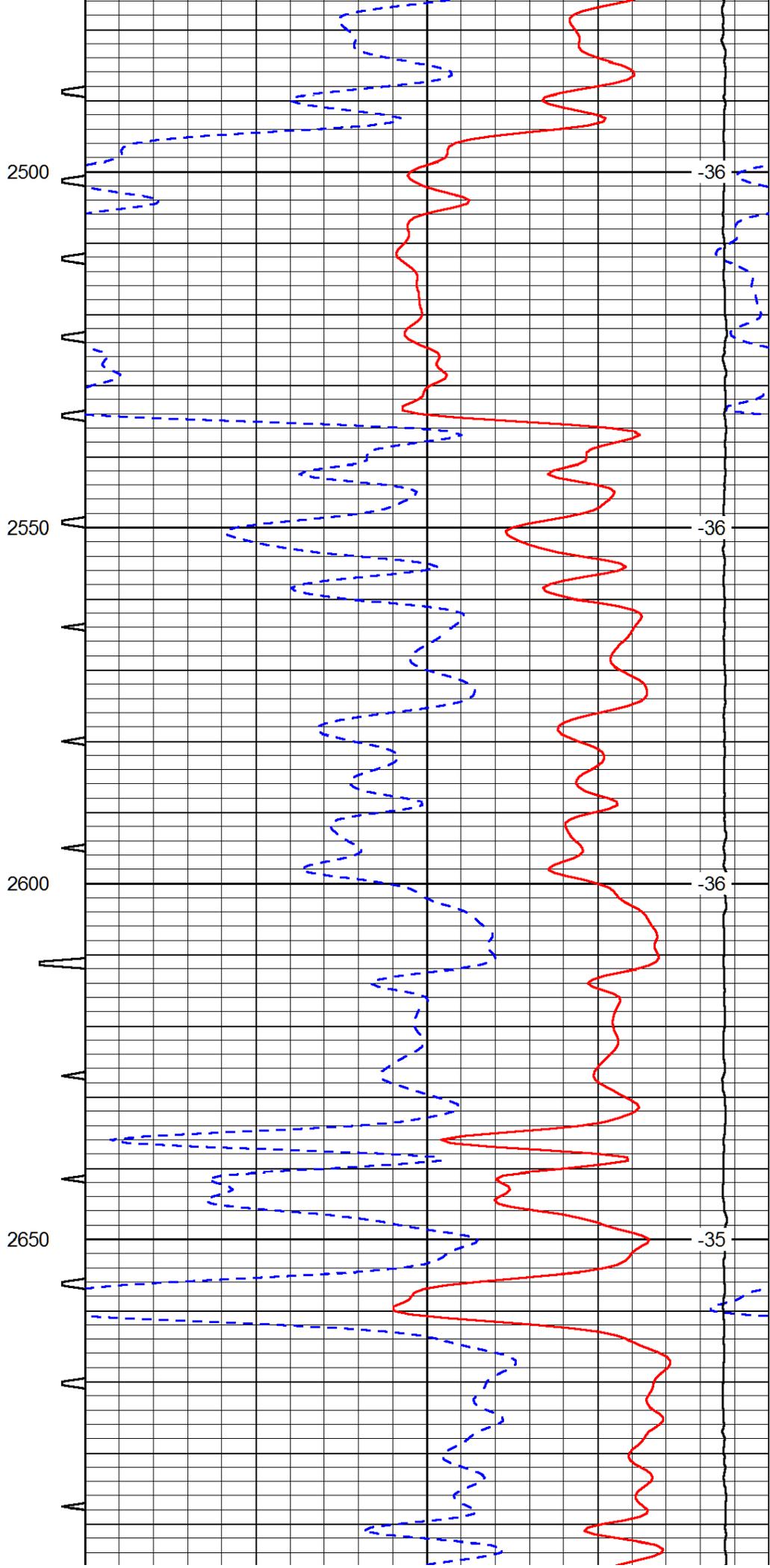
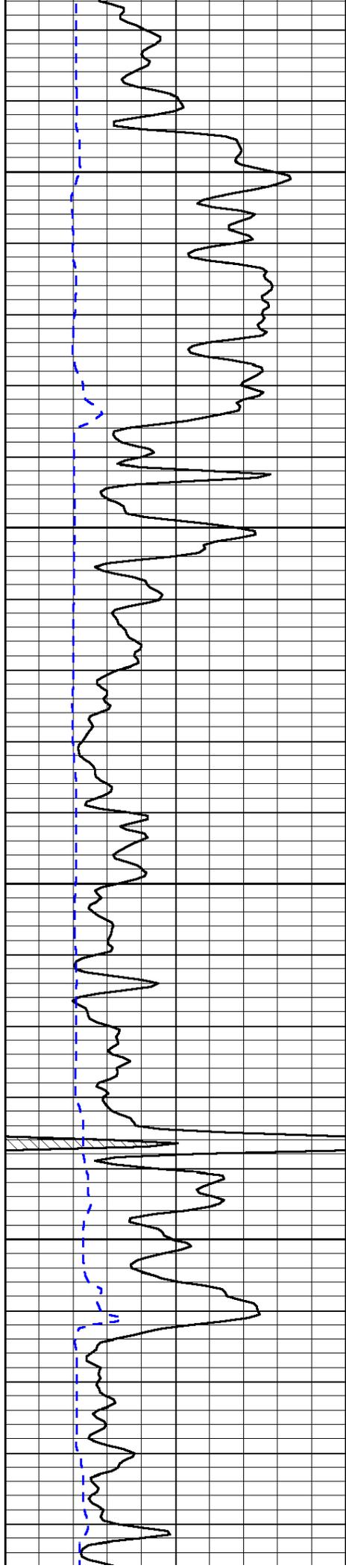


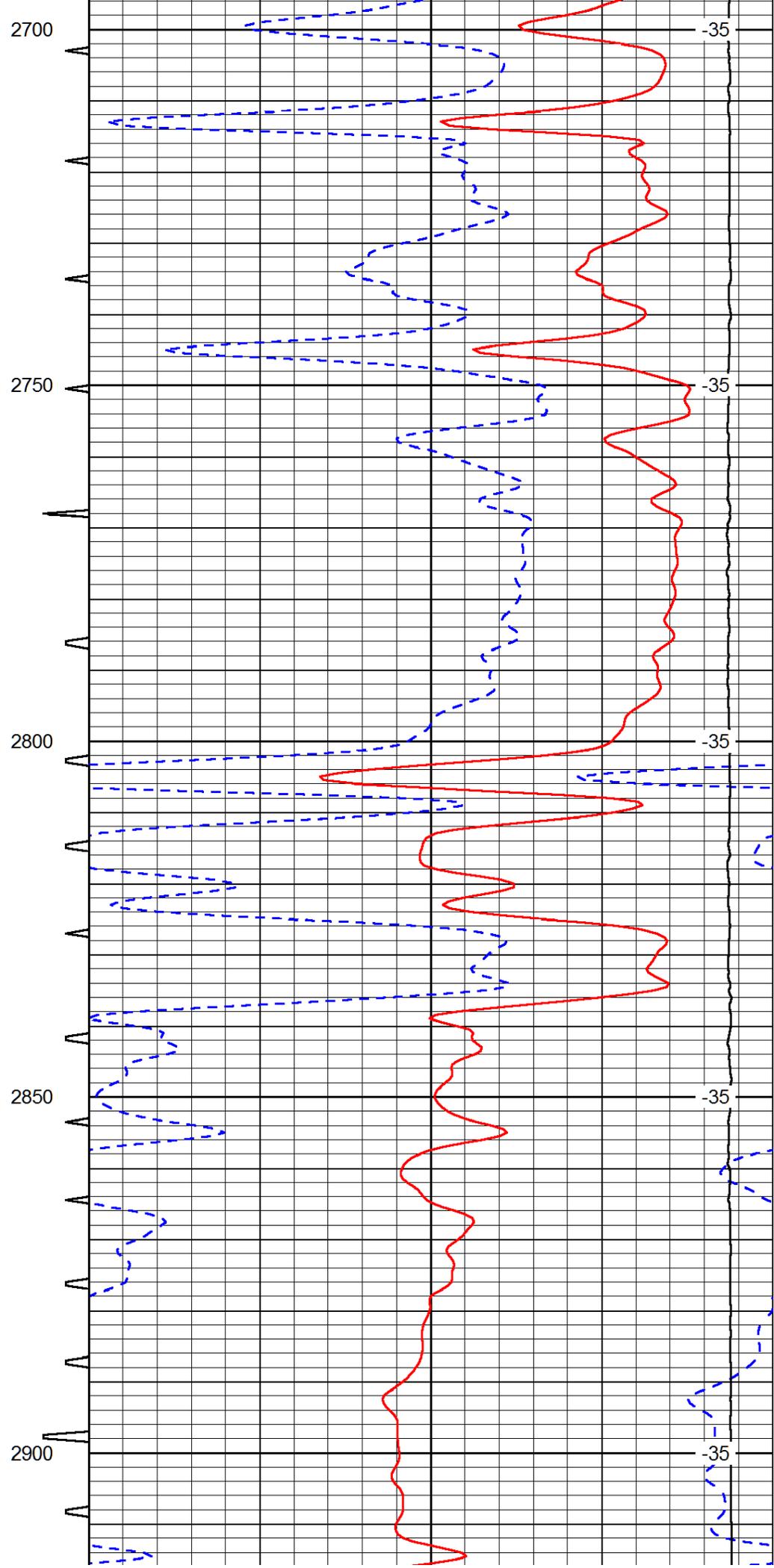
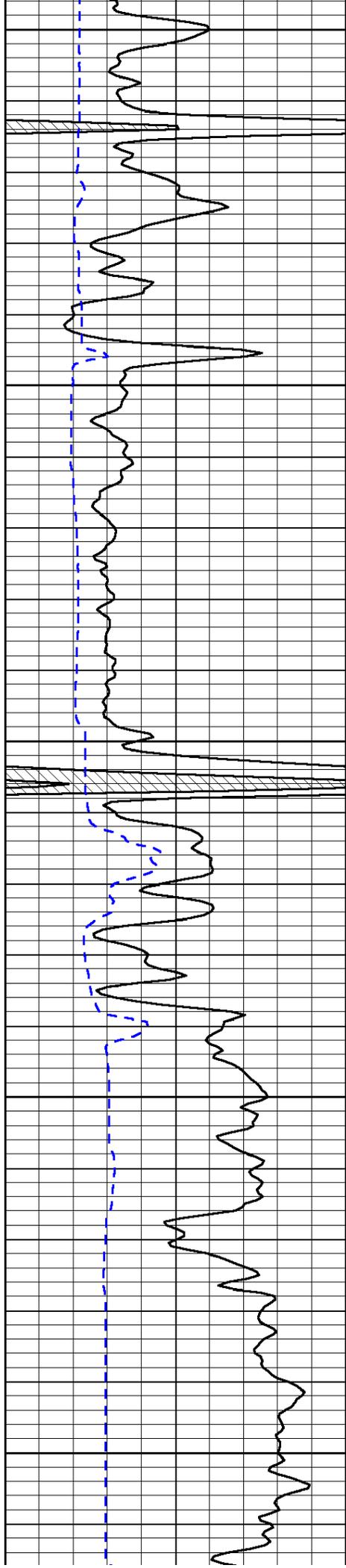


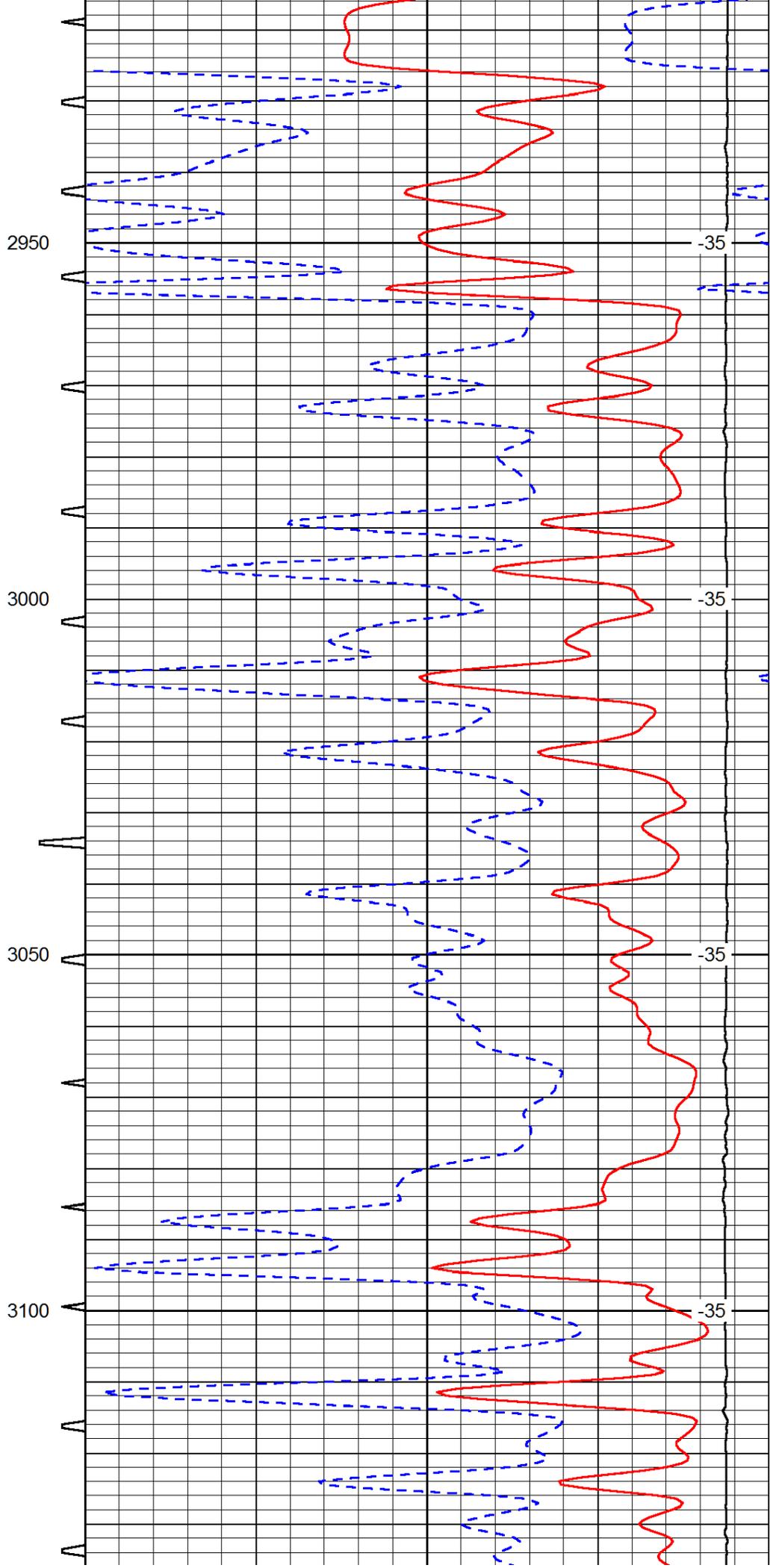
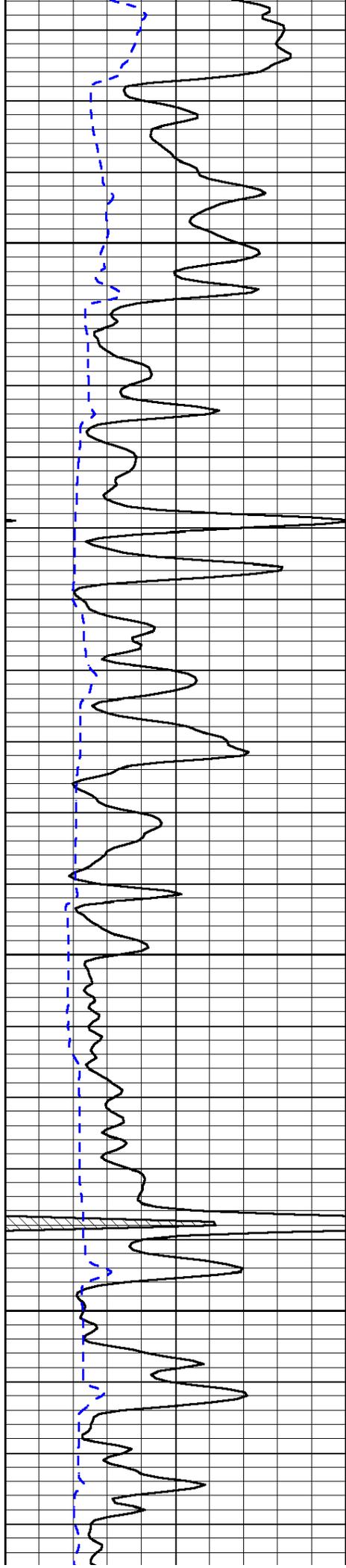


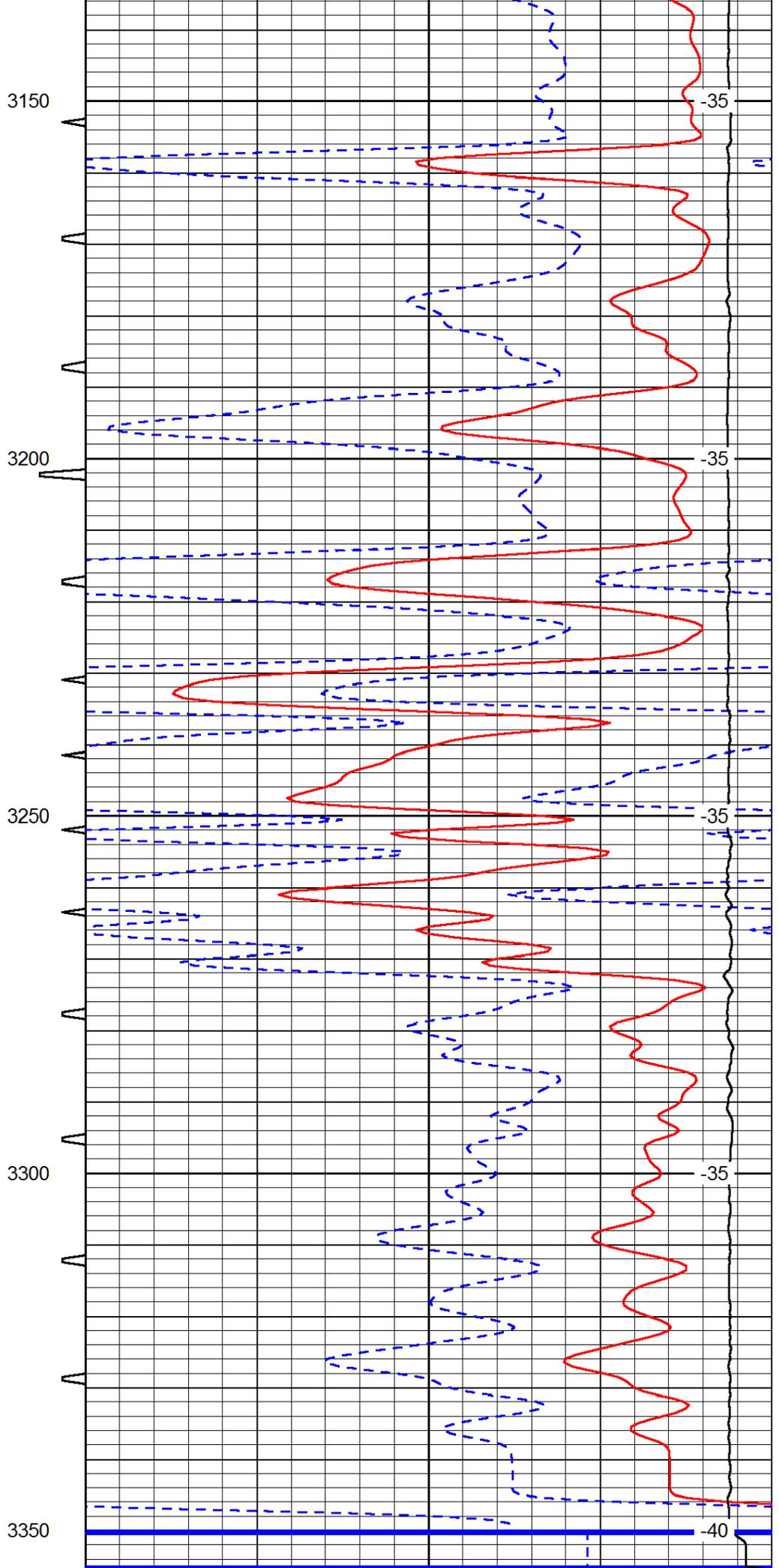
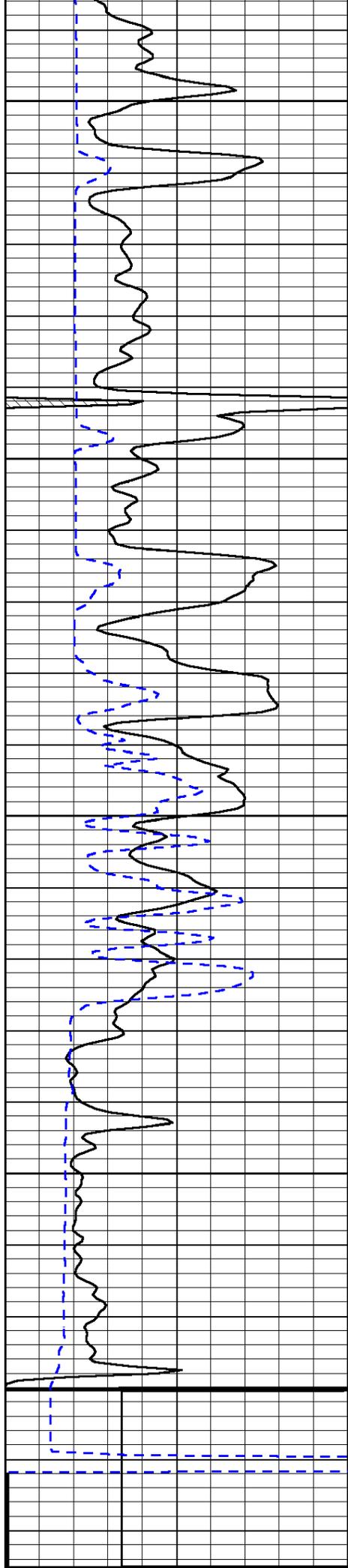












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