



PIONEER

Pioneer Energy Services

Borehole Compensated Sonic Log

API No.

15-109-21,377-00-00

Company **Black Tea Oil, LLC**

Well **DFK 5 #1**

Field **Elkader Townsite Southeast**

County **Logan** State **Kansas**

Location

**SE SE SW SW
300' FSL & 1260' FWL**

Sec: **35**

Twp: **14S**

Rge: **32W**

Permanent Datum **Ground Level** Elevation **2632**
Log Measured From **Kelly Bushing** 9 Ft. Above Perm. Datum
Drilling Measured From **Kelly Bushing**

Other Services
CNL/CDL
MEL/DIL
Elevation
K.B. 2641
D.F. G.L. 2632

Date **12/14/2014**

Run Number **Two**

Type Log **BHC Sonic**

Depth Driller **4410**

Depth Logger **4407**

Bottom Logged Interval **4396**

Top Logged Interval **250**

Type Fluid In Hole **Chemical**

Salinity, PPM CL **5000**

Density **9.2**

Level **Full**

Max. Rec. Temp. F **120**

Operating Rig Time **5 Hours**

Equipment -- Location **15 Hays**

Recorded By **D.Kerr**

Witnessed By **Richard Thomasson**

Borehole Record

Casing Record

Run No

Bit

From

To

Size

Wgt.

From

To

264

264

264

264

264

264

264

264

264

264

264

264

264

264

264

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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.

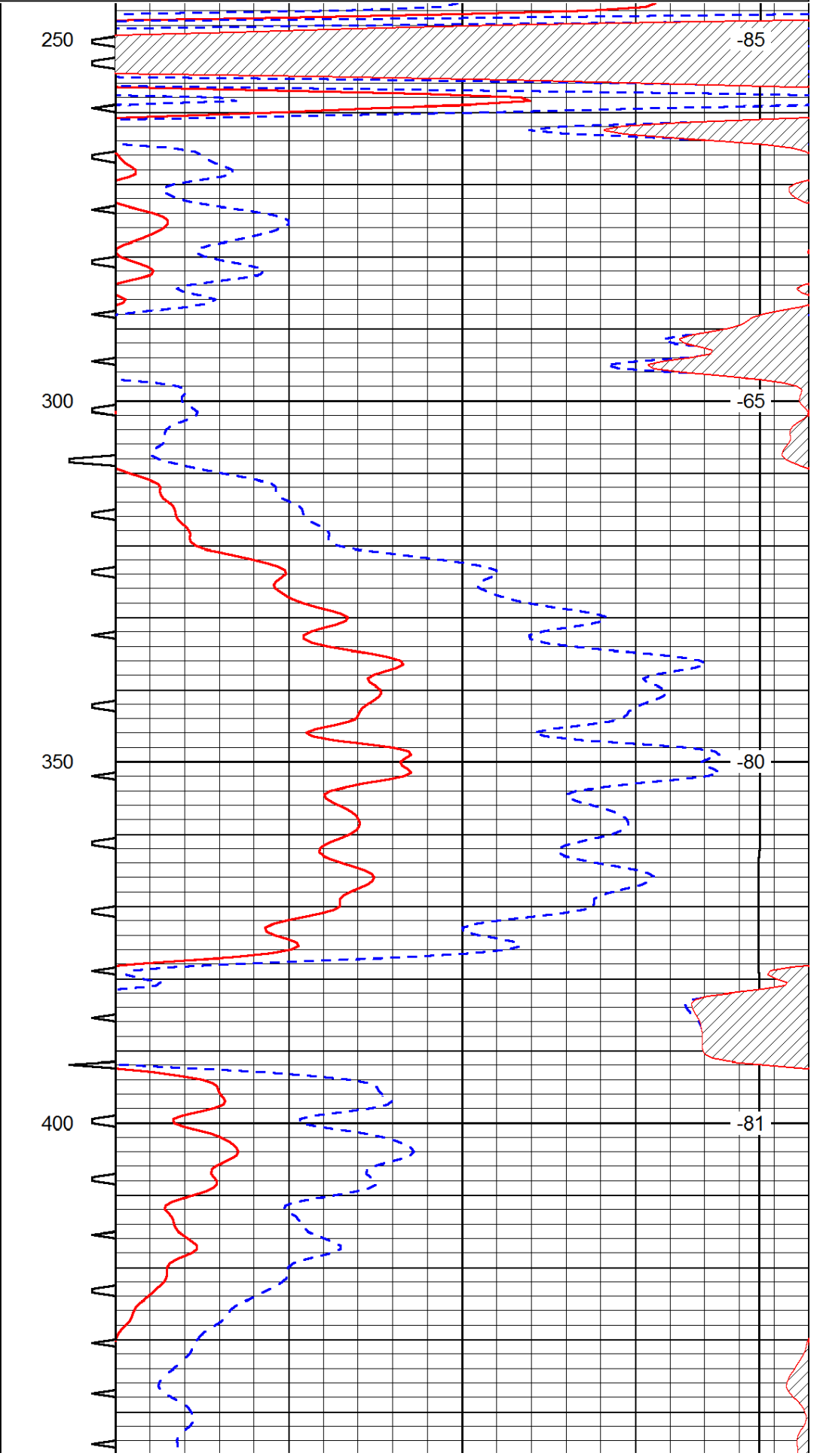
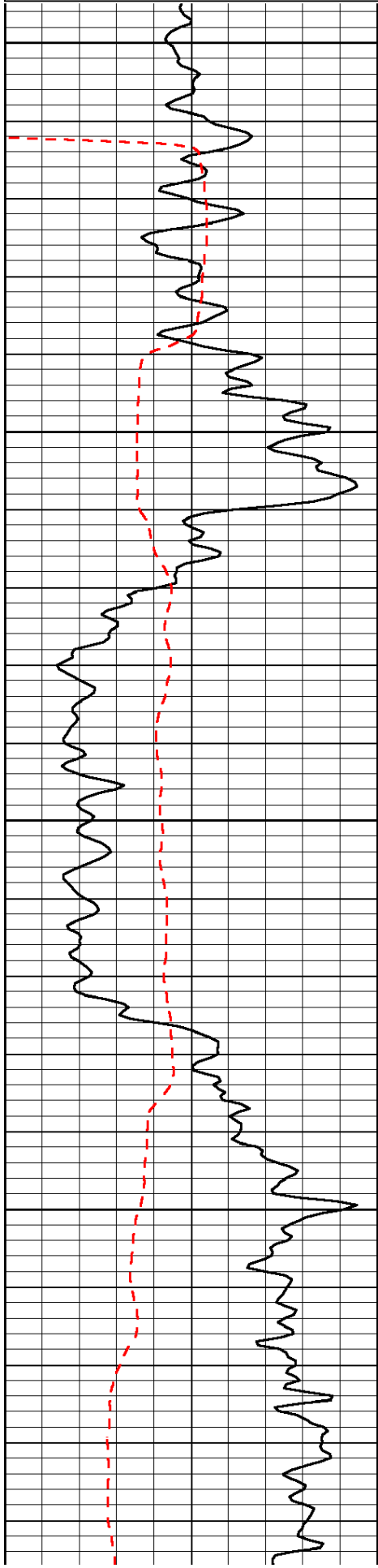
Comments

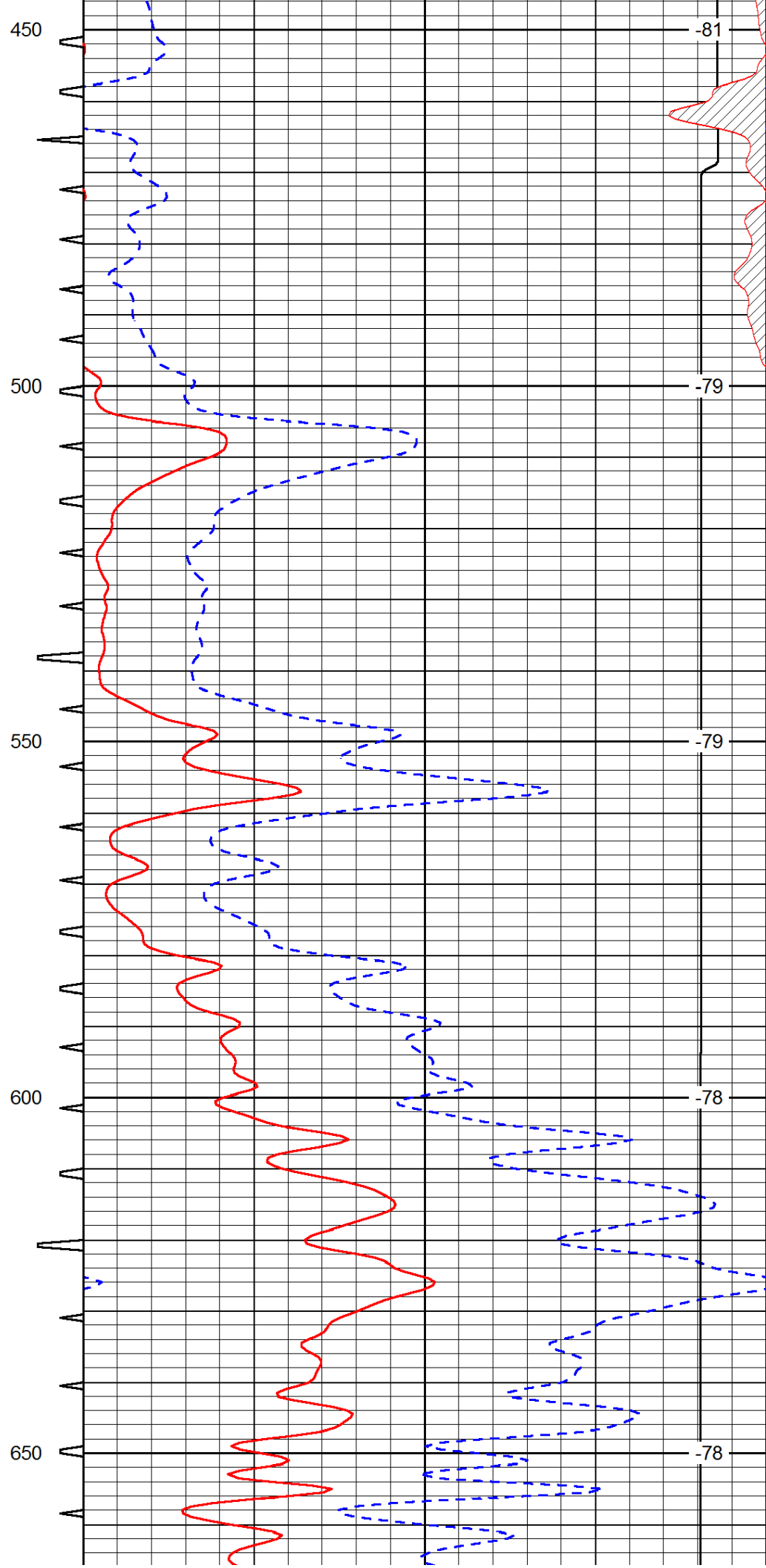
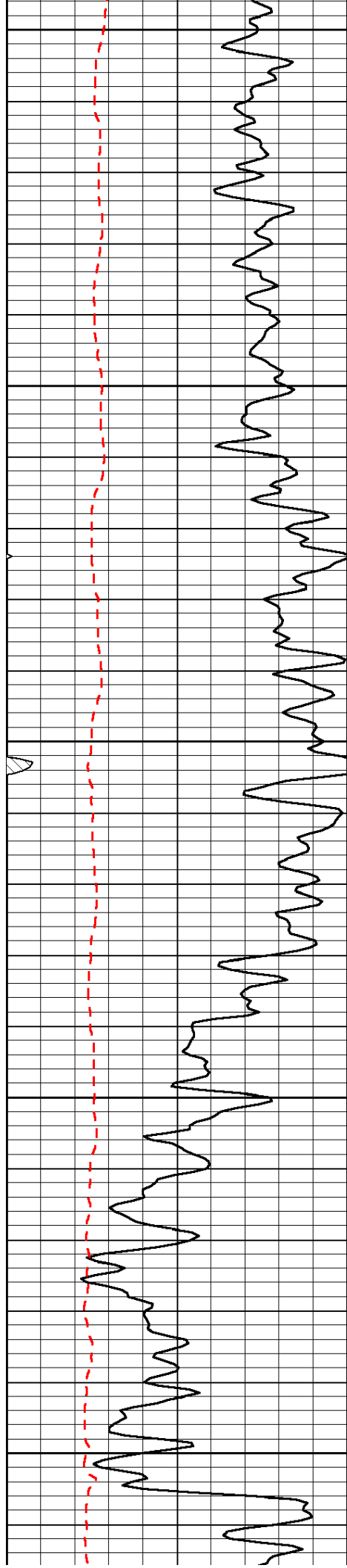
Thank you for using Pioneer Energy Services
www.pioneerres.com
785 625 3858

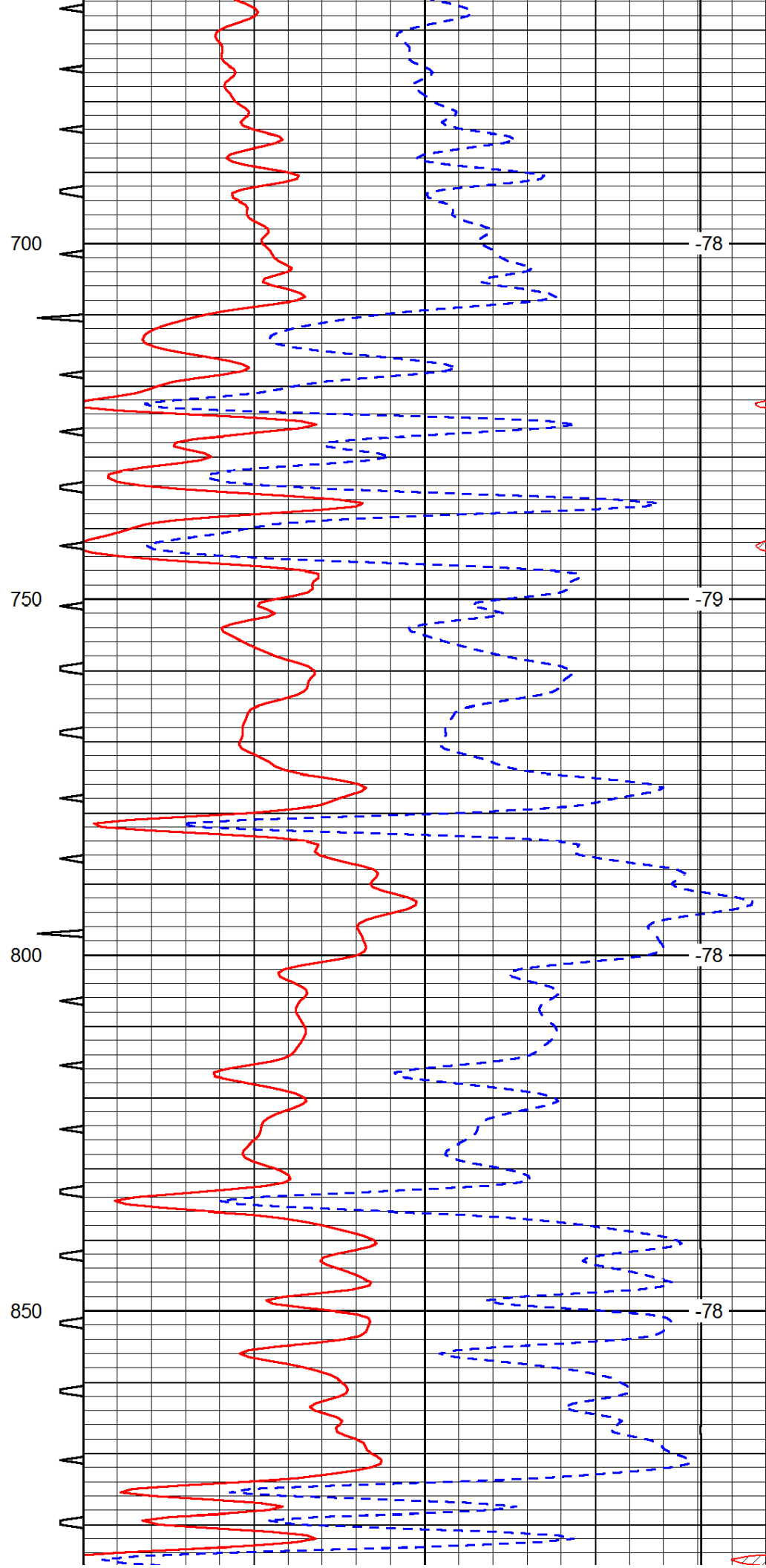
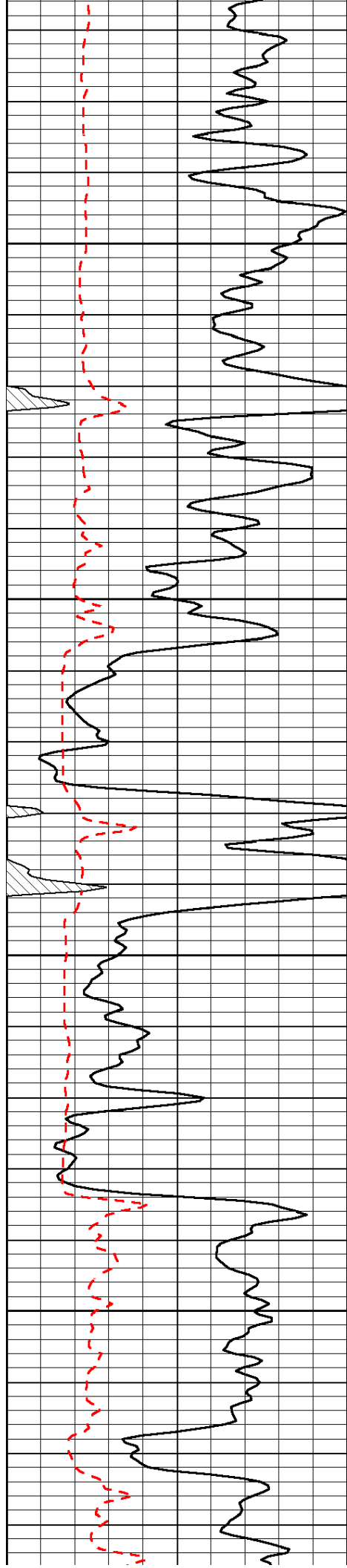
Oakley KS, 23 South to Gold RD, 1/4 East,
North through fence, East and North Into

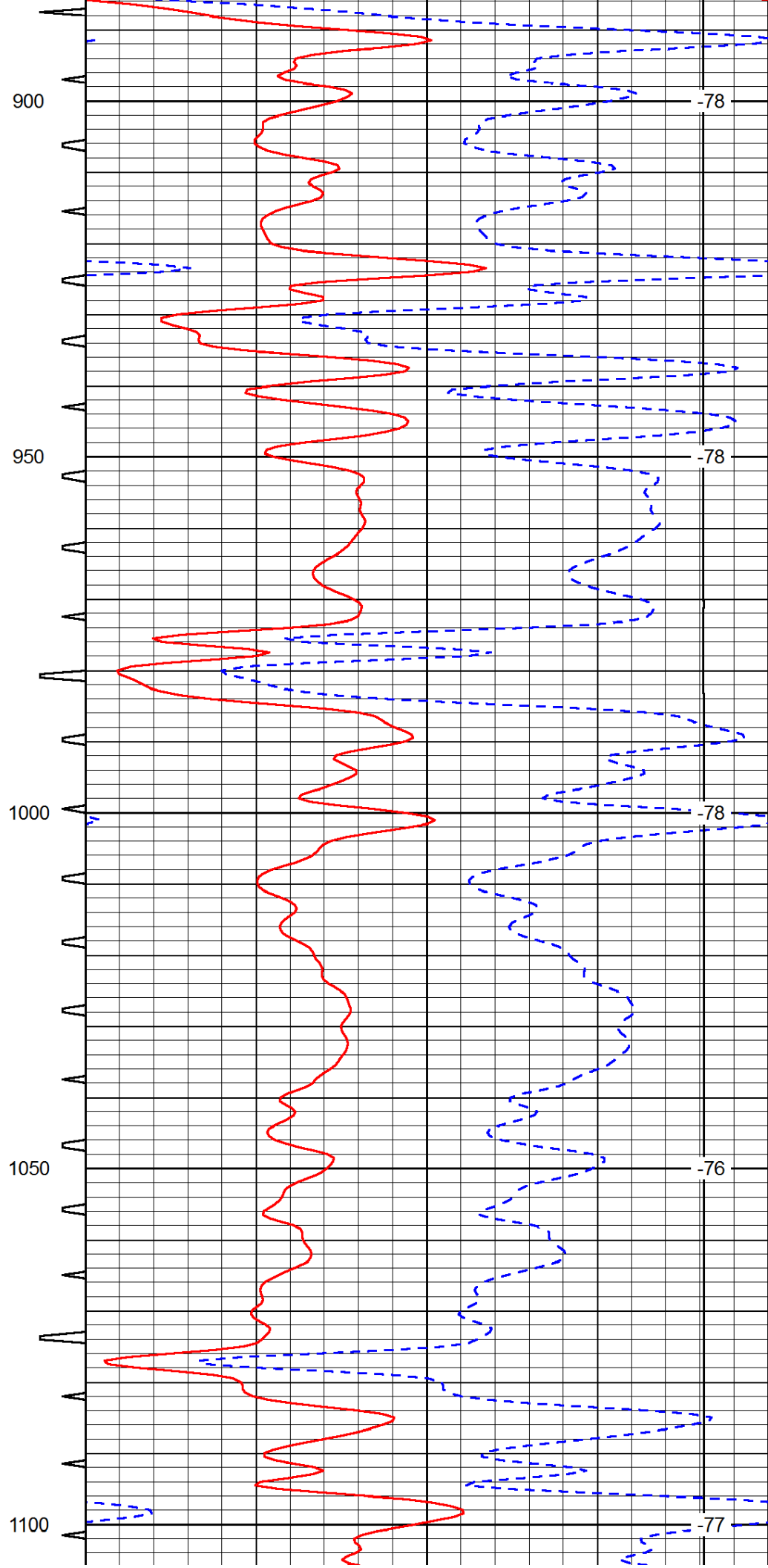
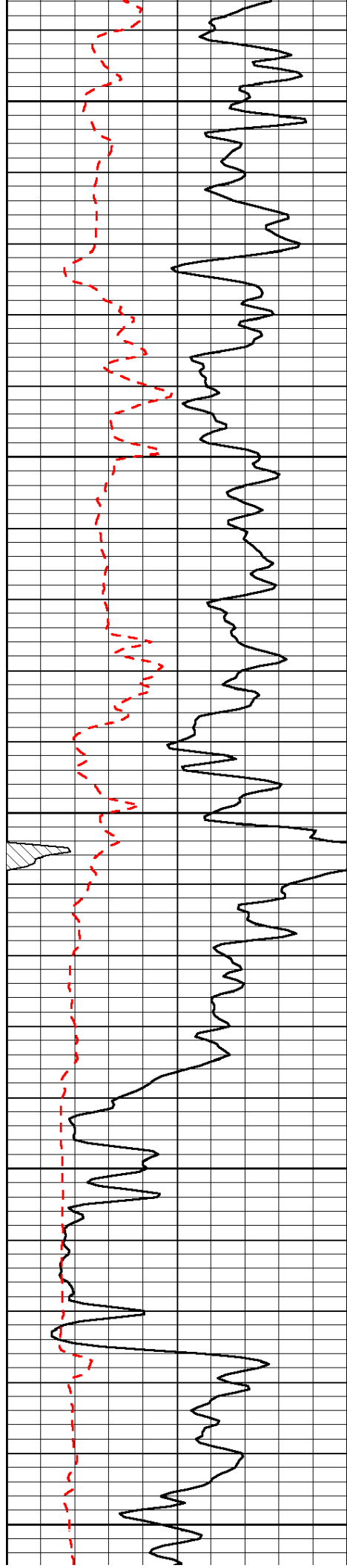
Database File: c:\warrior\data\black tea_dfk 5 #1\blacktea_dfk_5_1hd.db
Dataset Pathname: DIL/btstk
Presentation Format: sonic
Dataset Creation: Sun Dec 14 11:52:37 2014
Charted by: Depth in Feet scaled 1:240

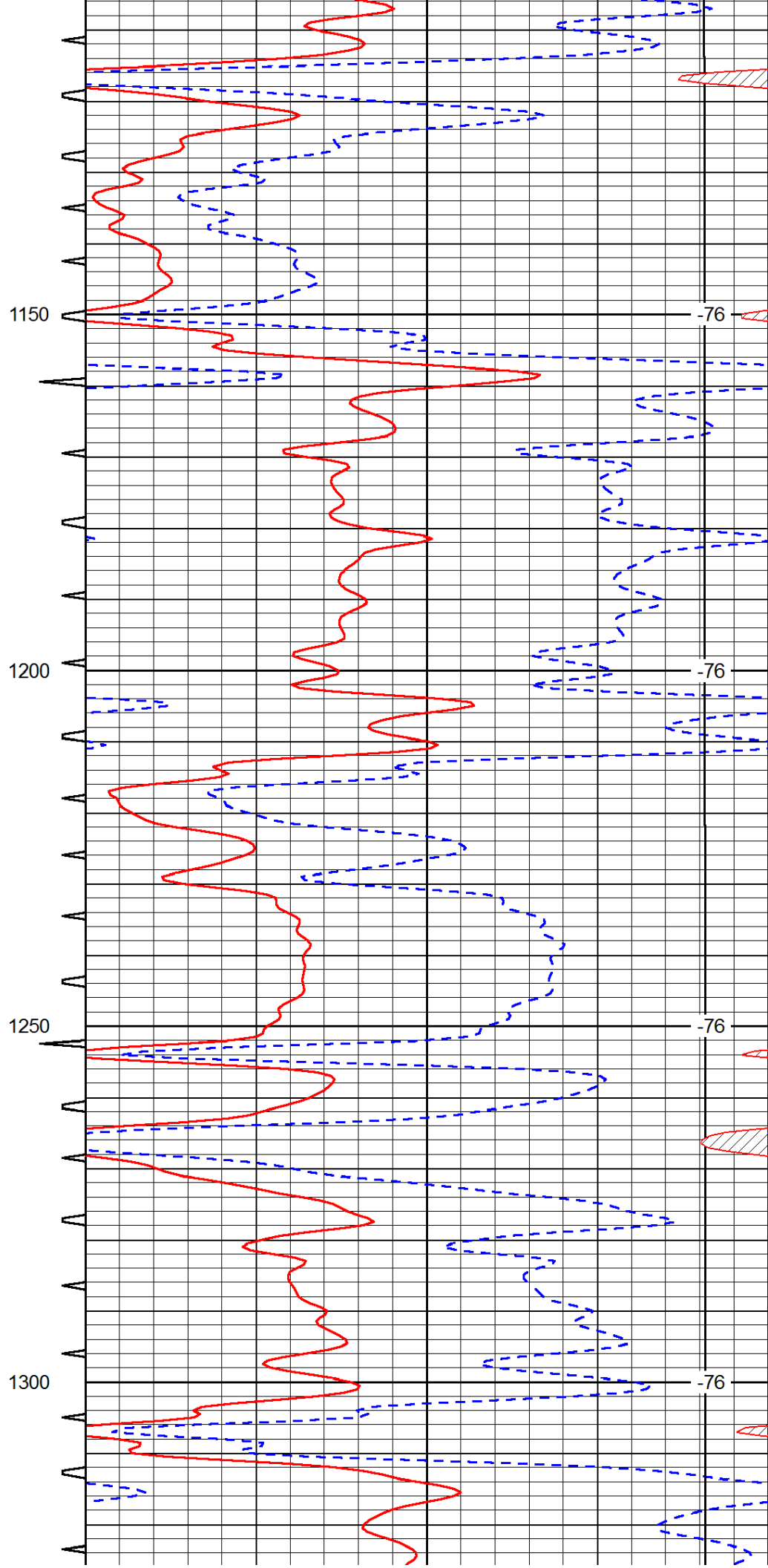
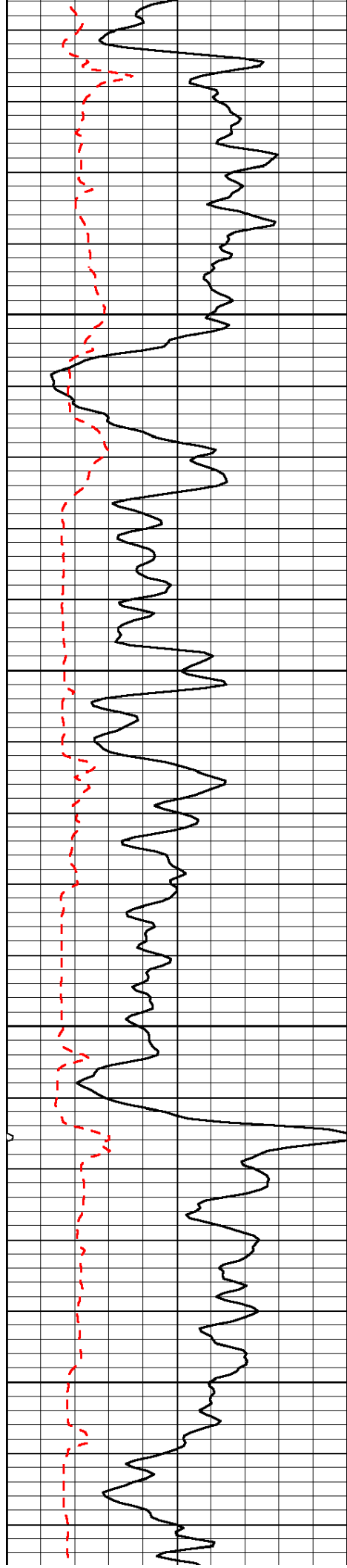
0	Gamma Ray	150	Sonic Int	140	Delta Time (usec/ft)	40
150	Gamma Ray	300	5	0	SPOR	-10
6	Caliper (GAPI)	16		15000	LTEN (lb)	0
						LSPD

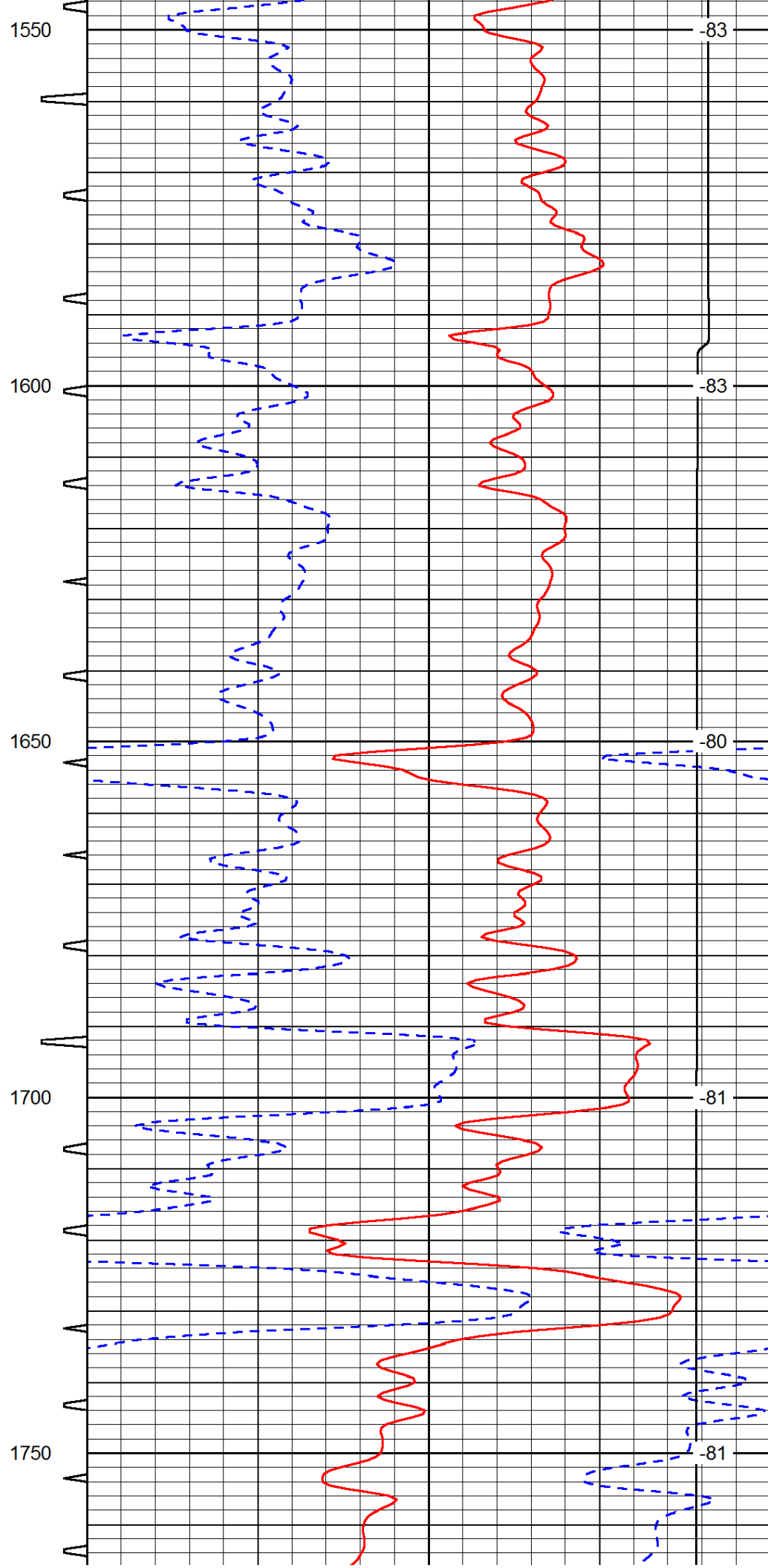
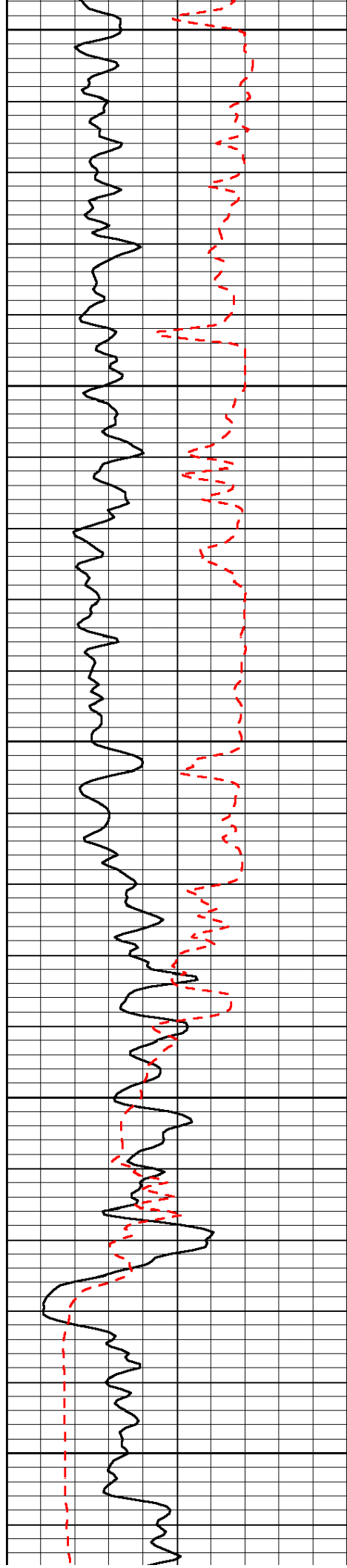


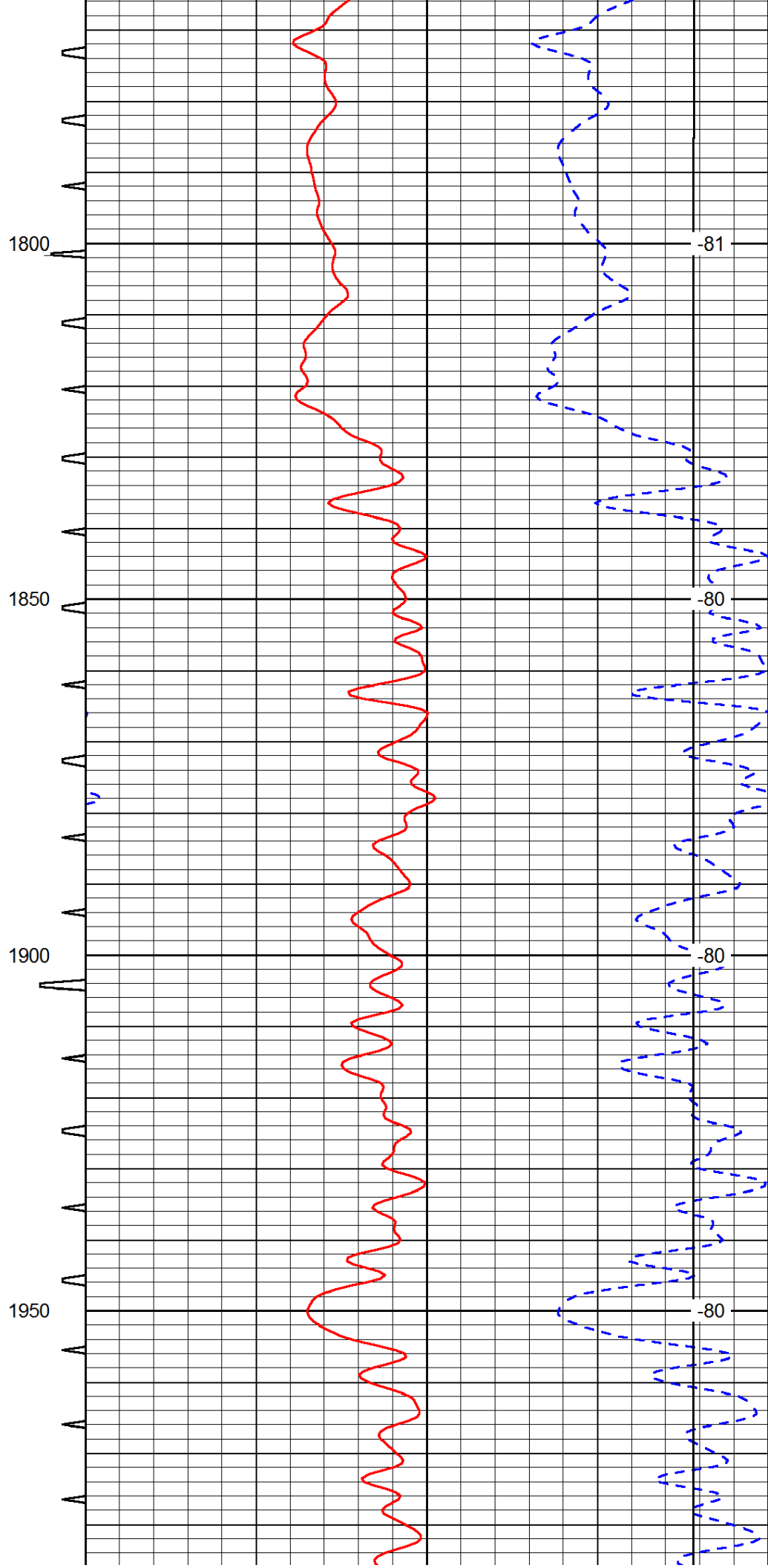
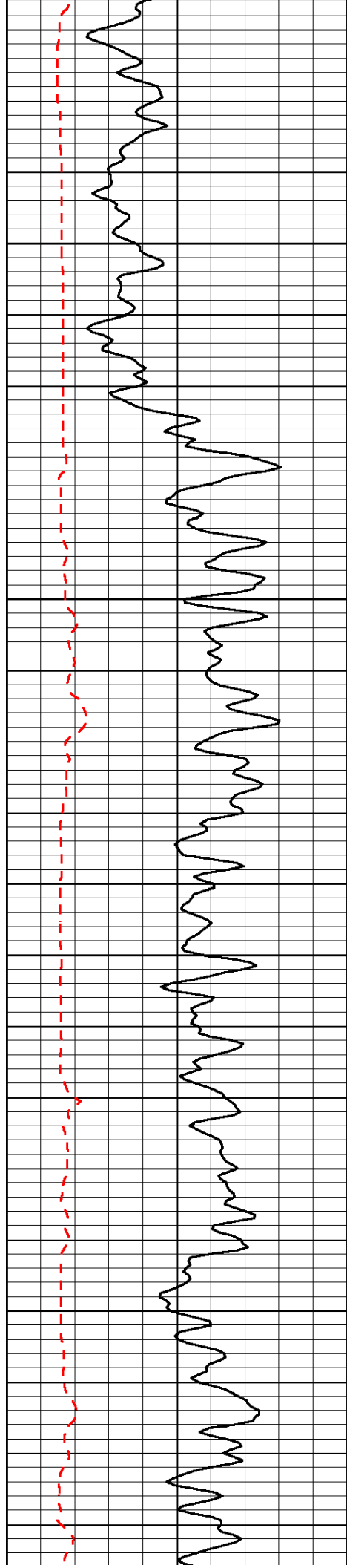


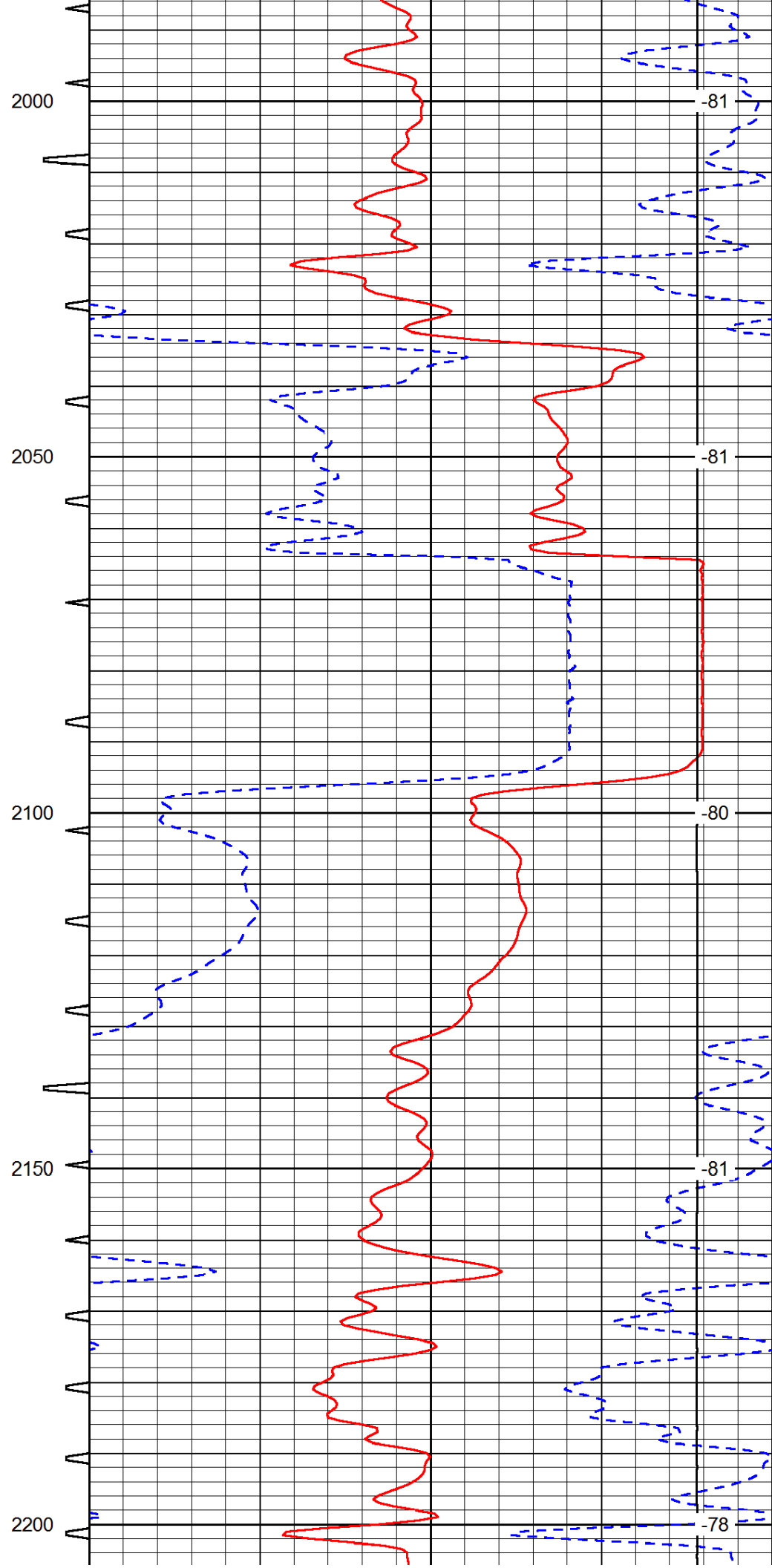
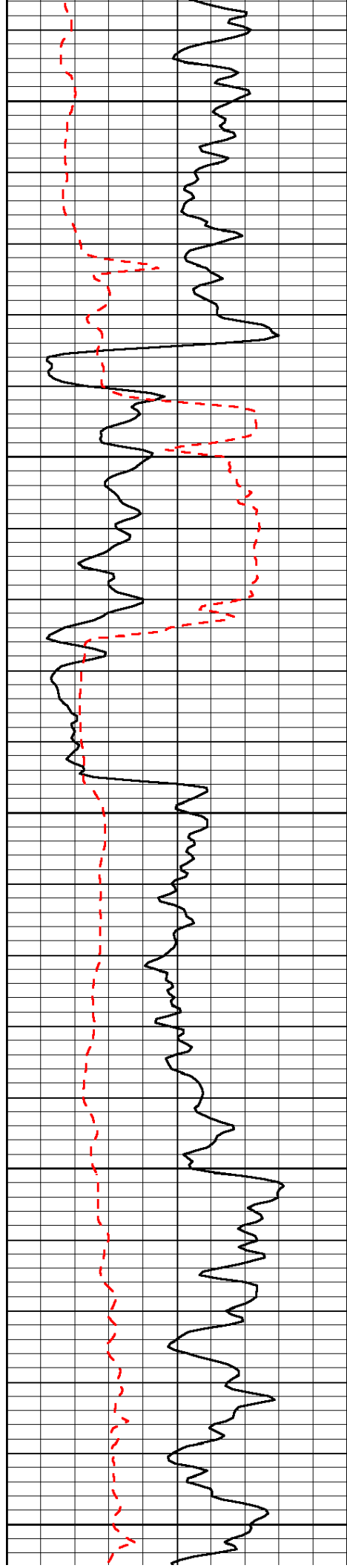


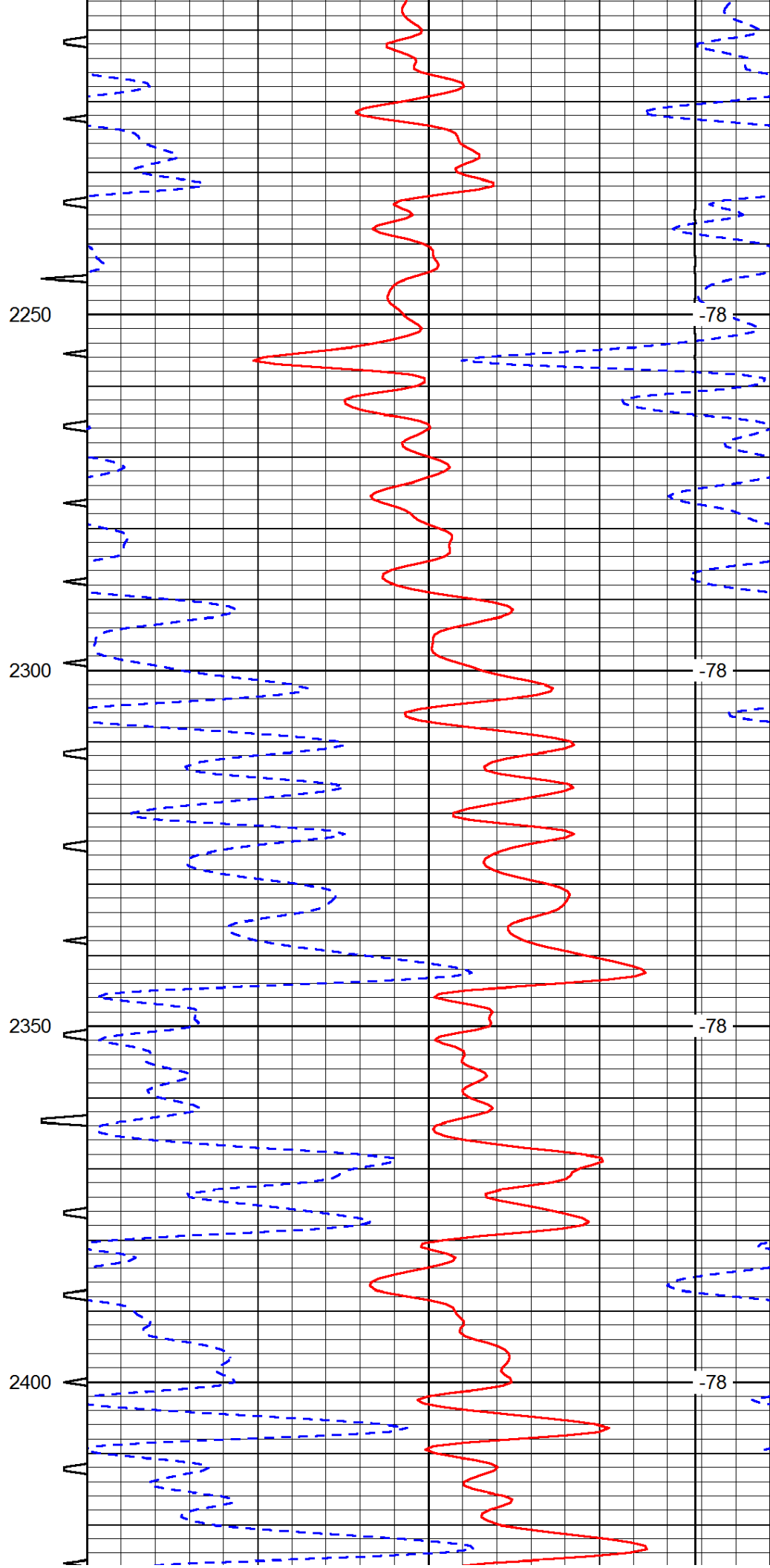
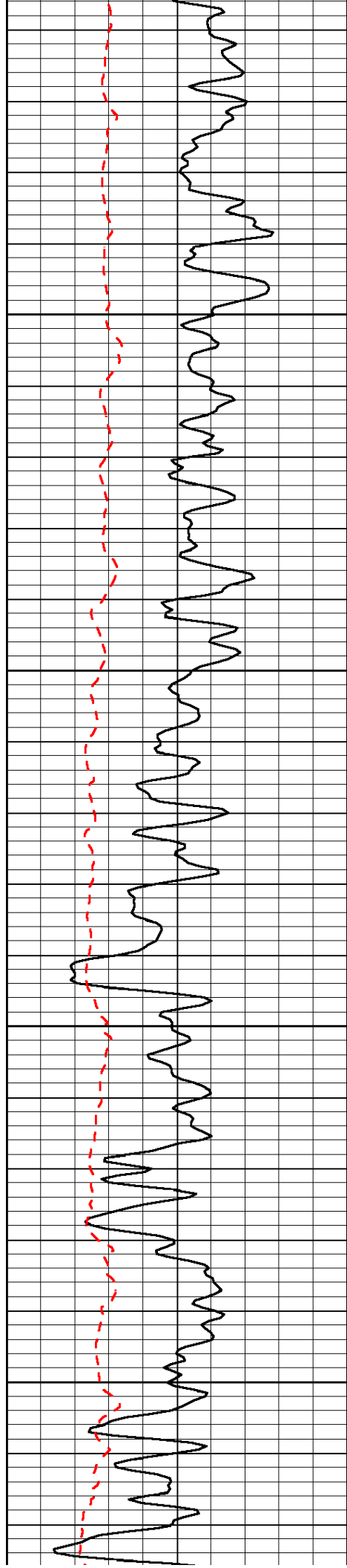


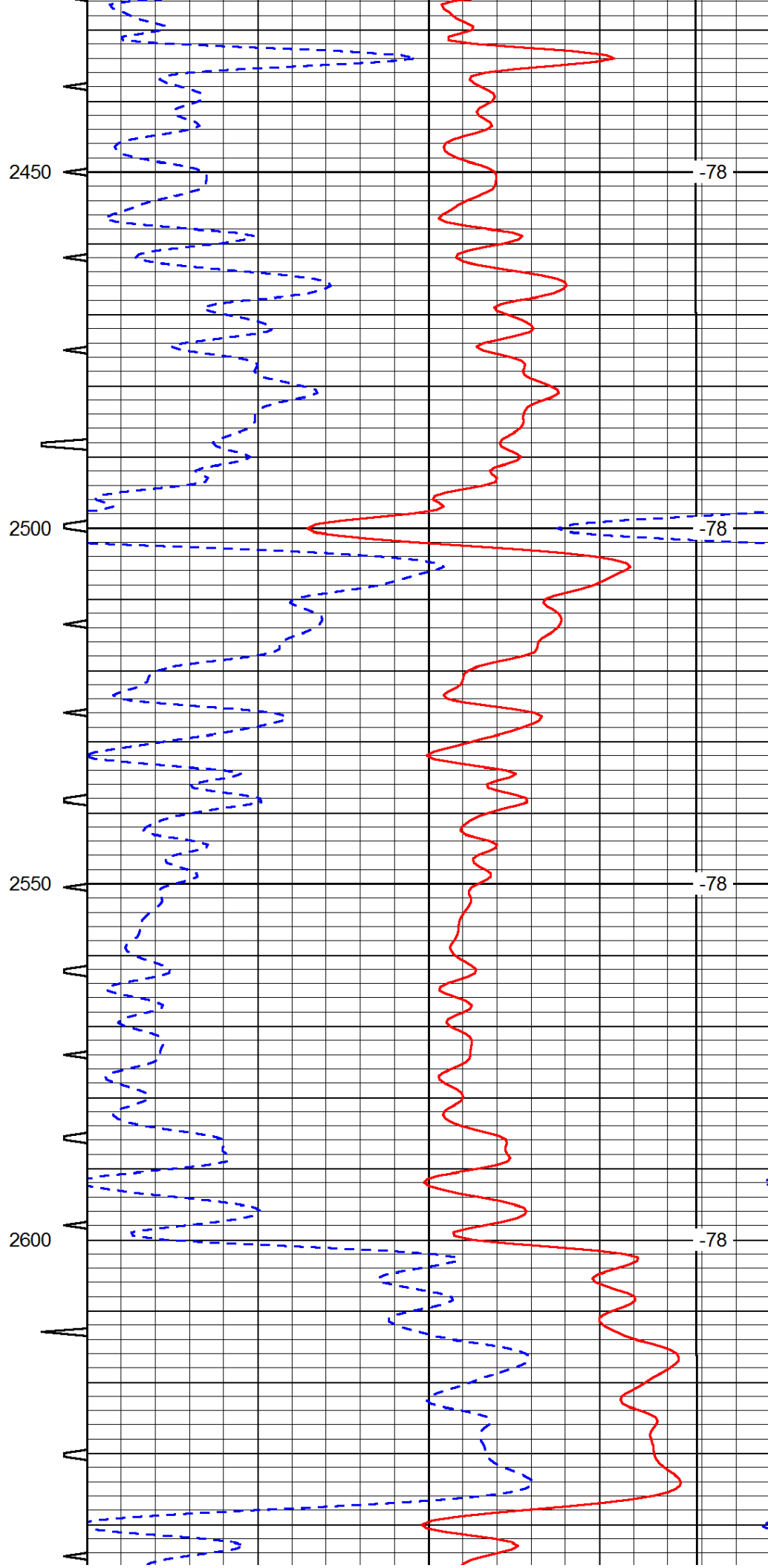
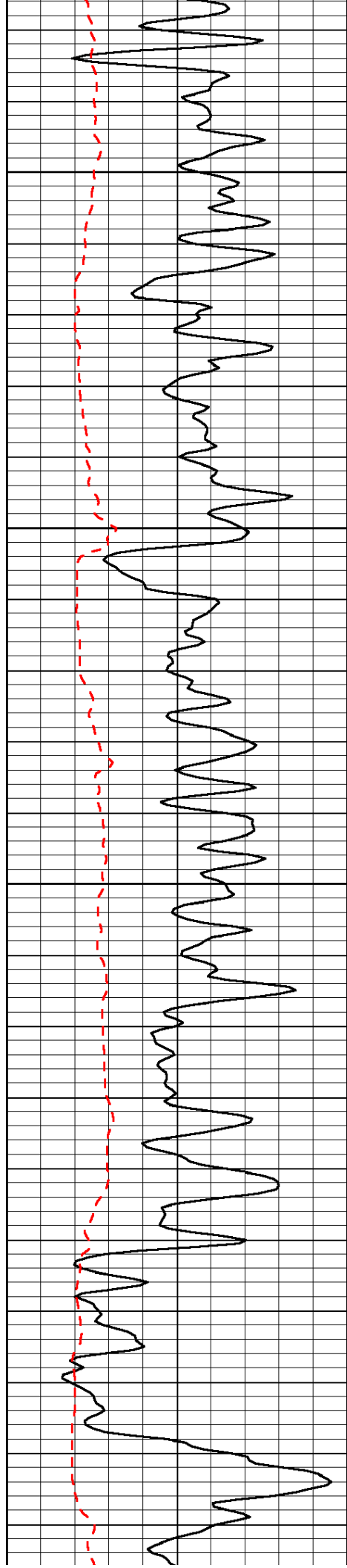


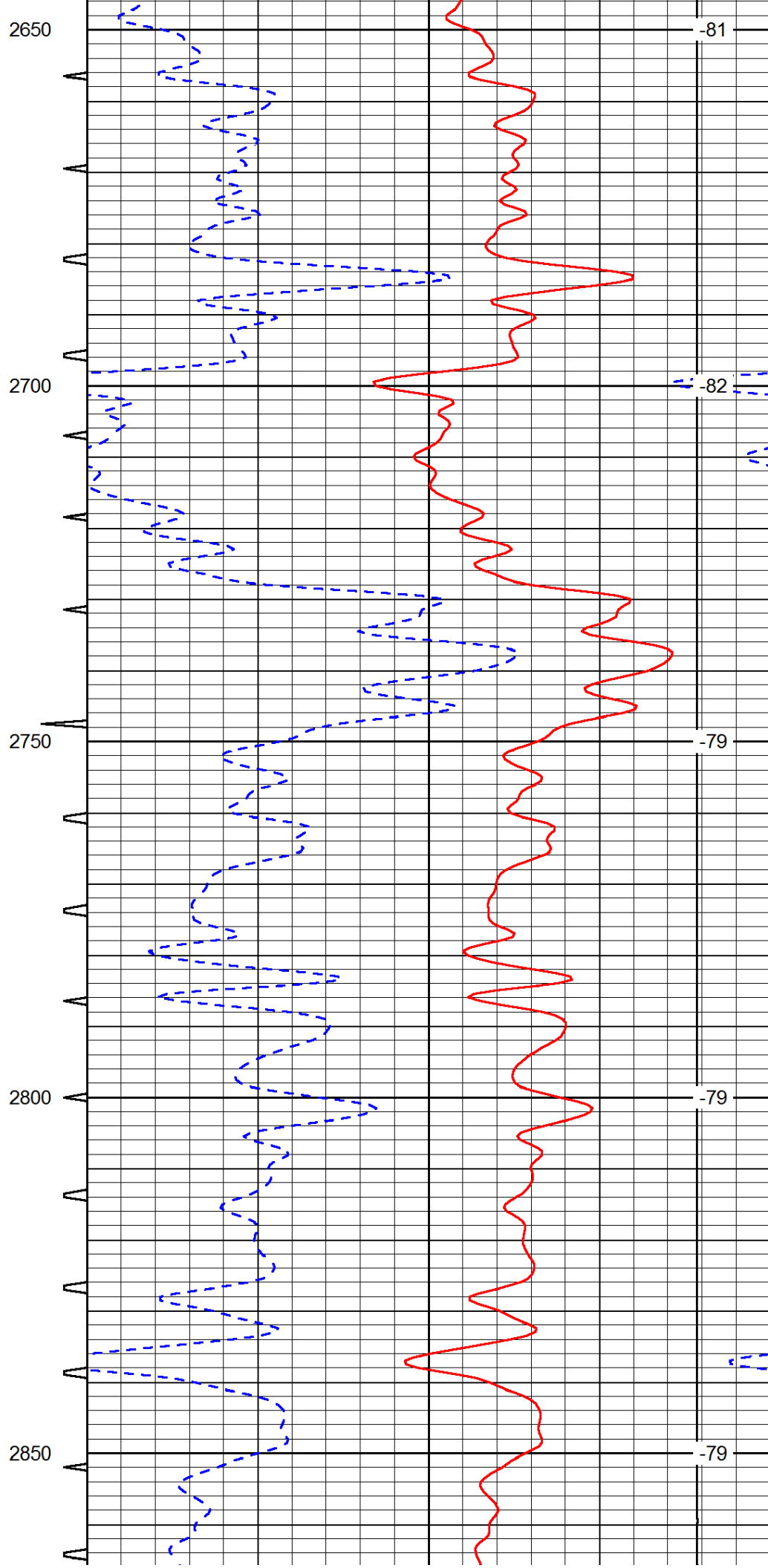
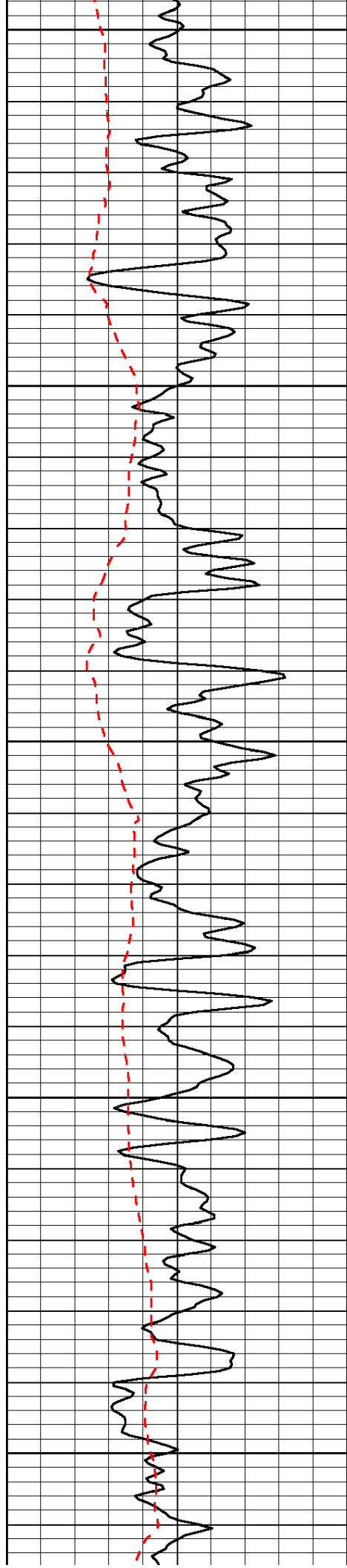


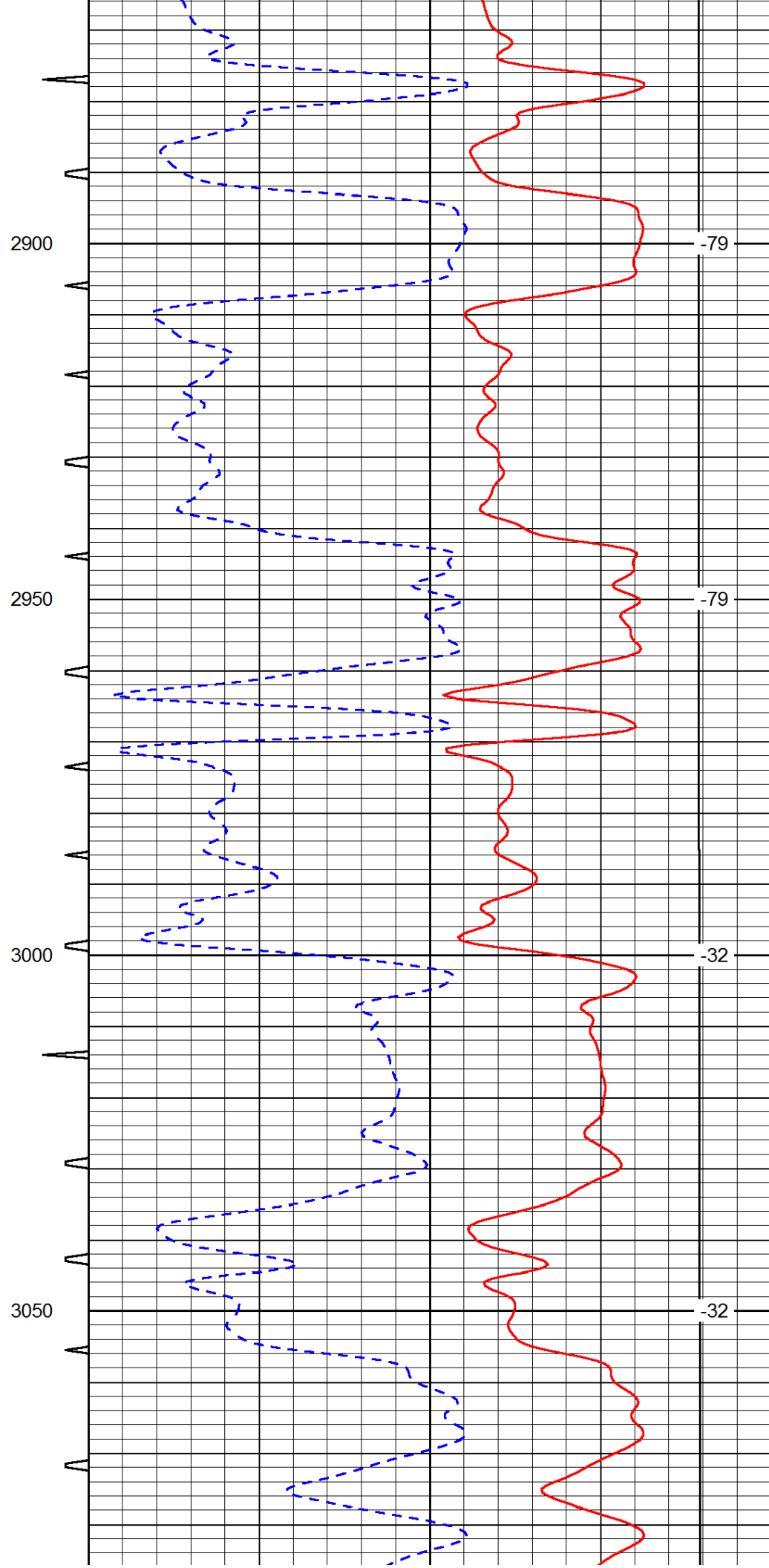
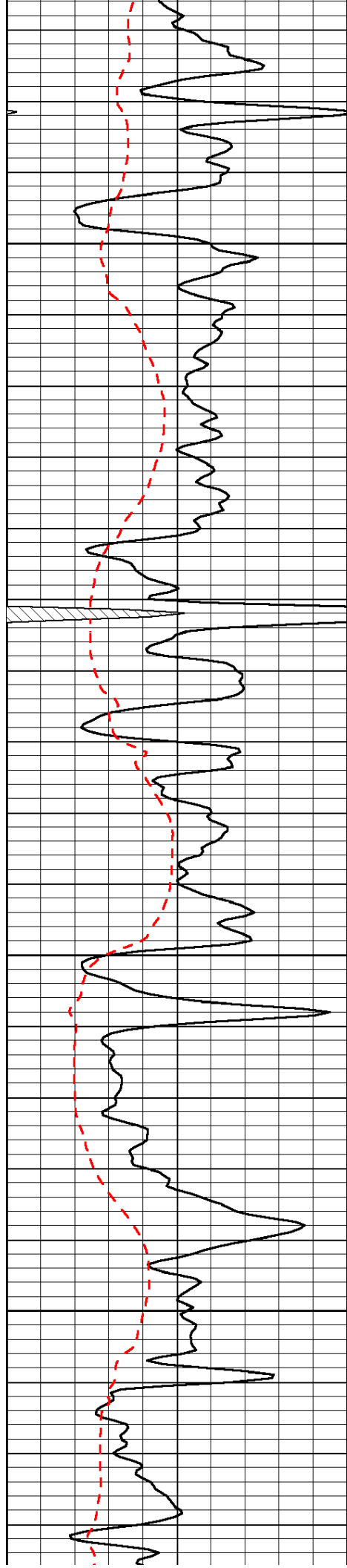


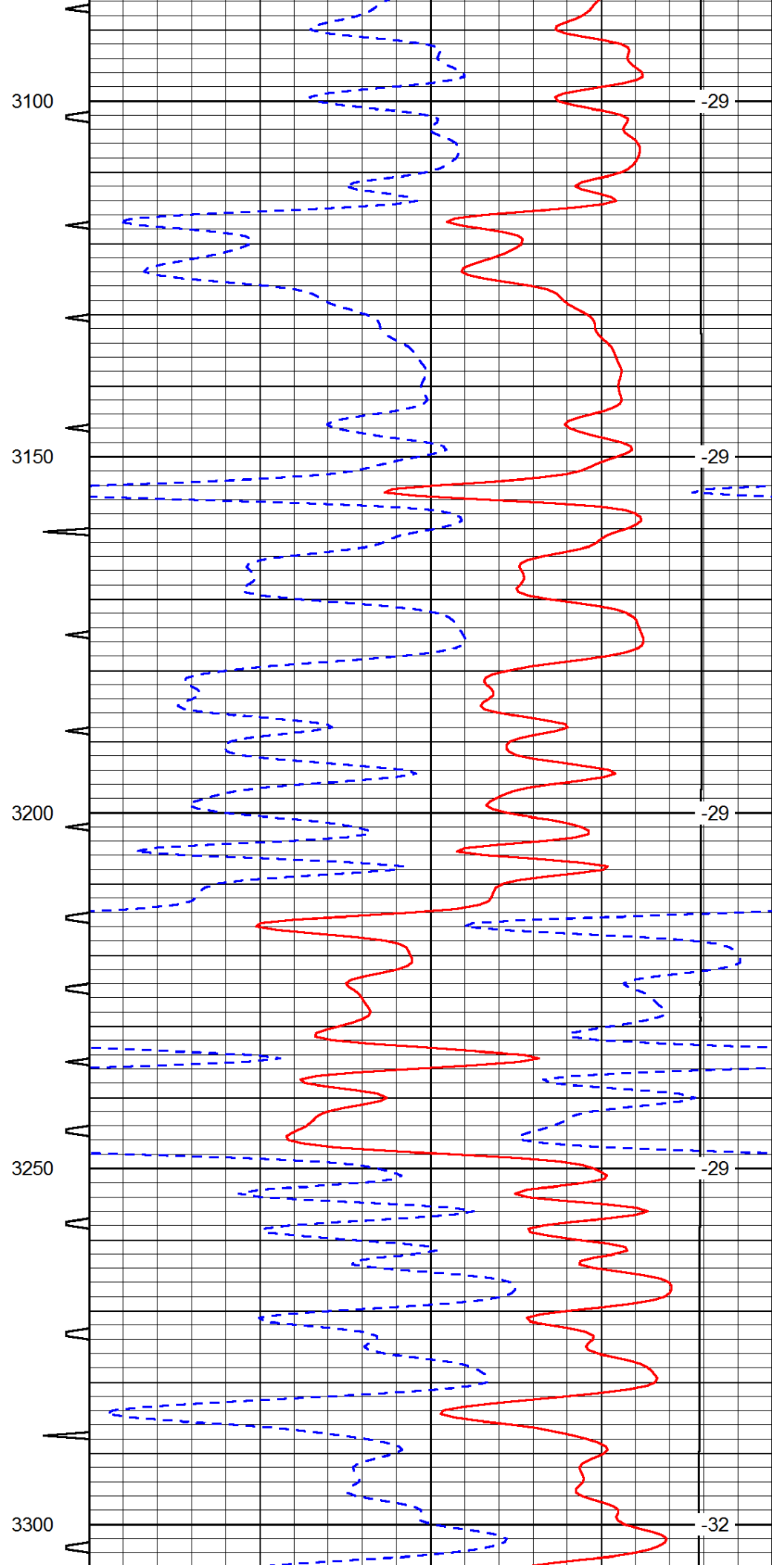
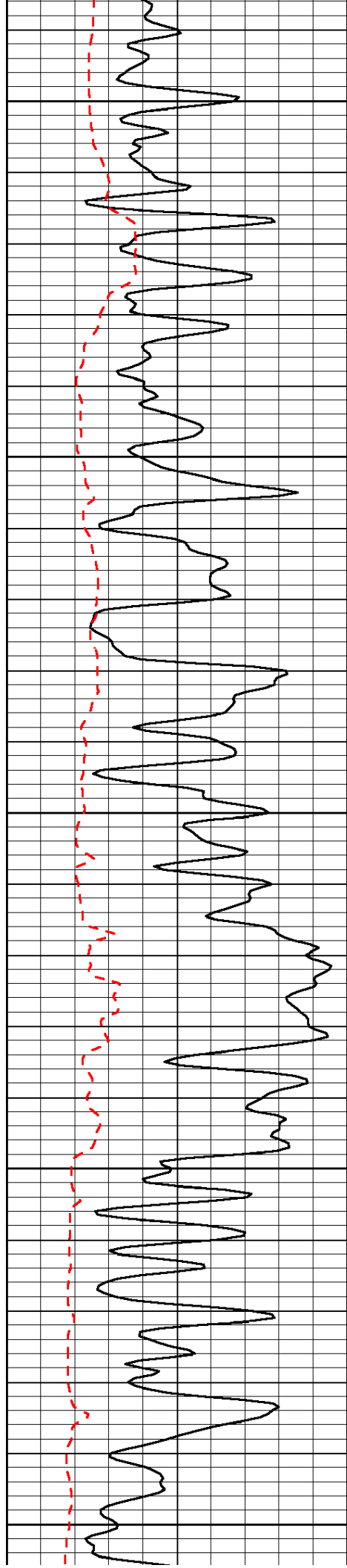


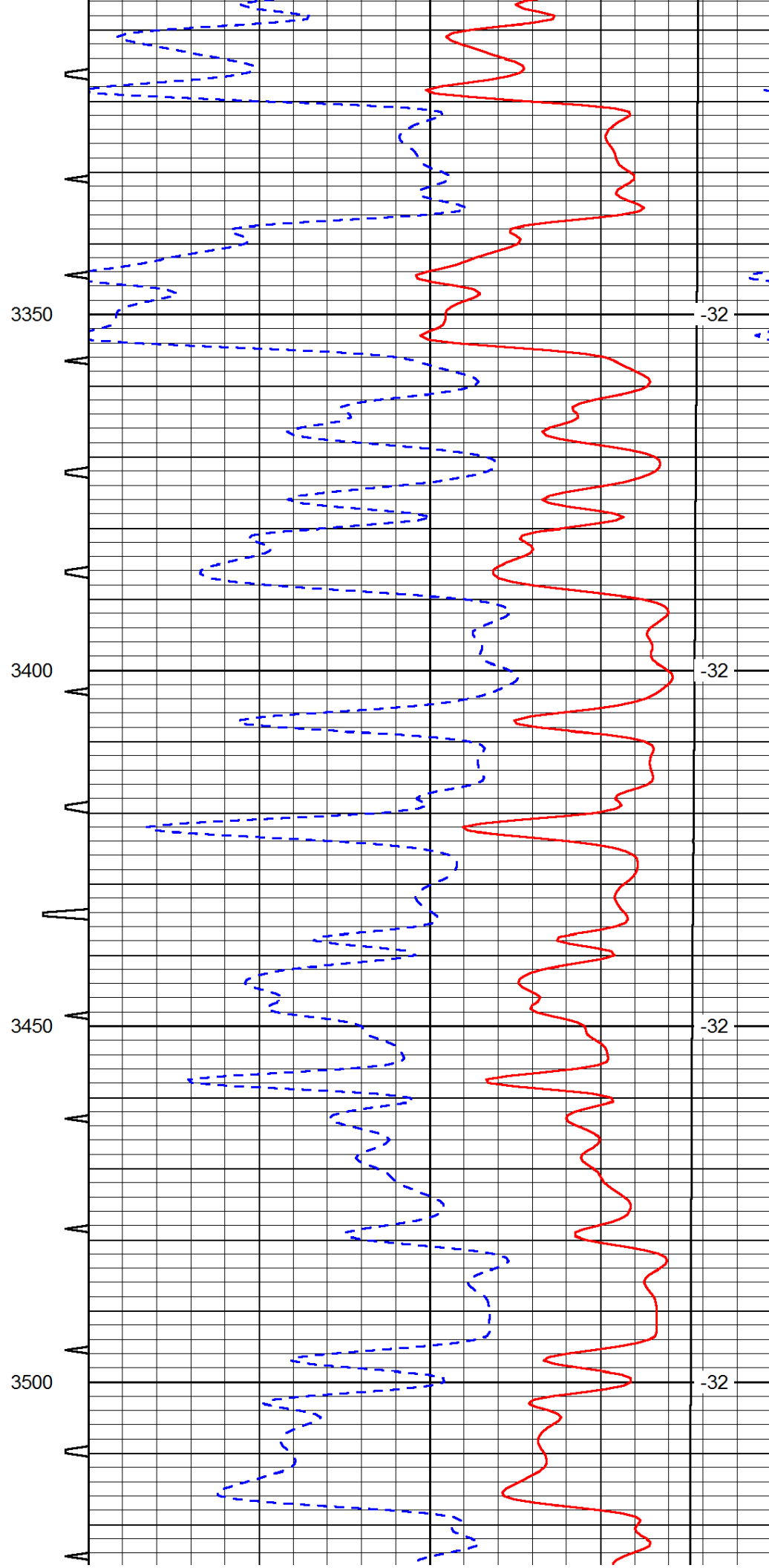
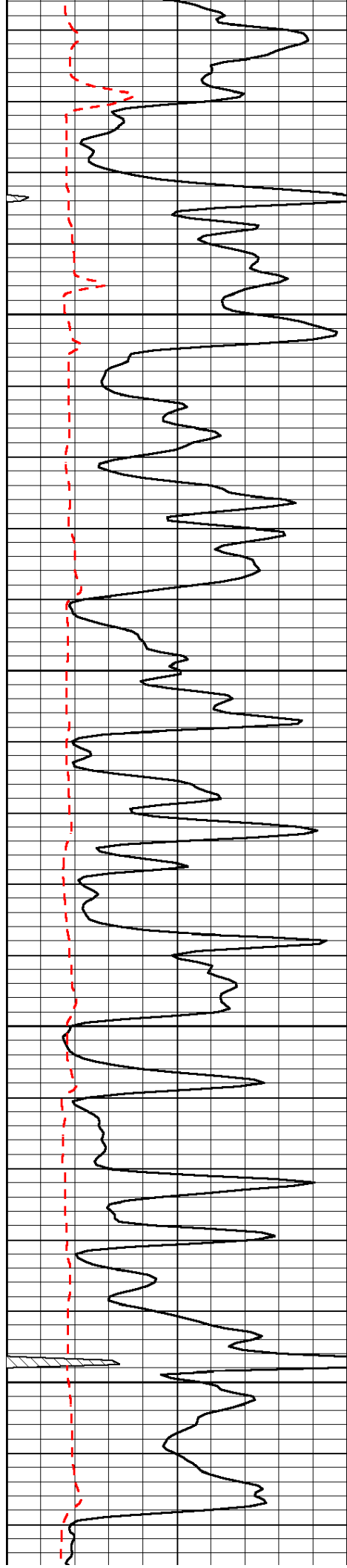


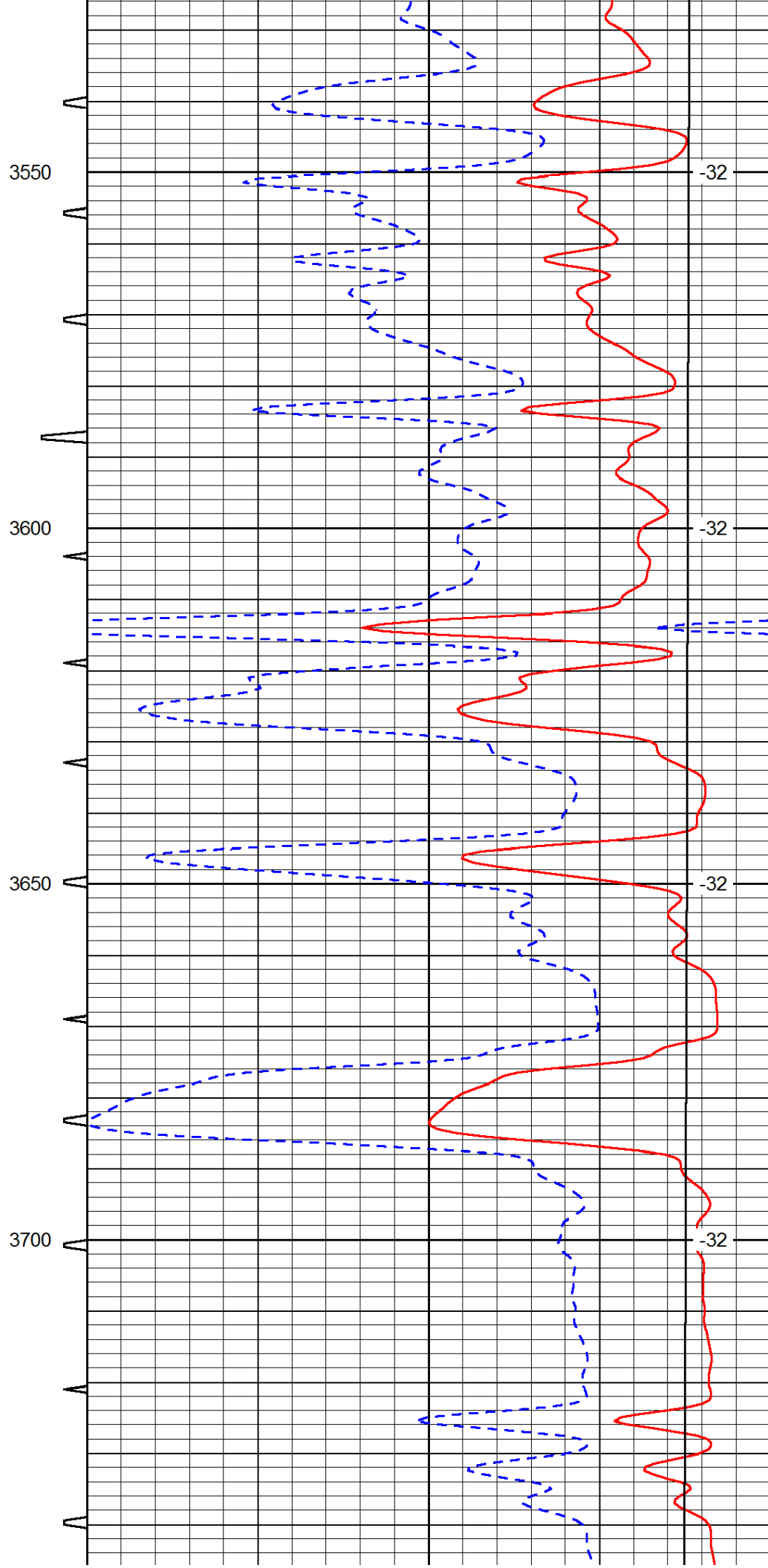
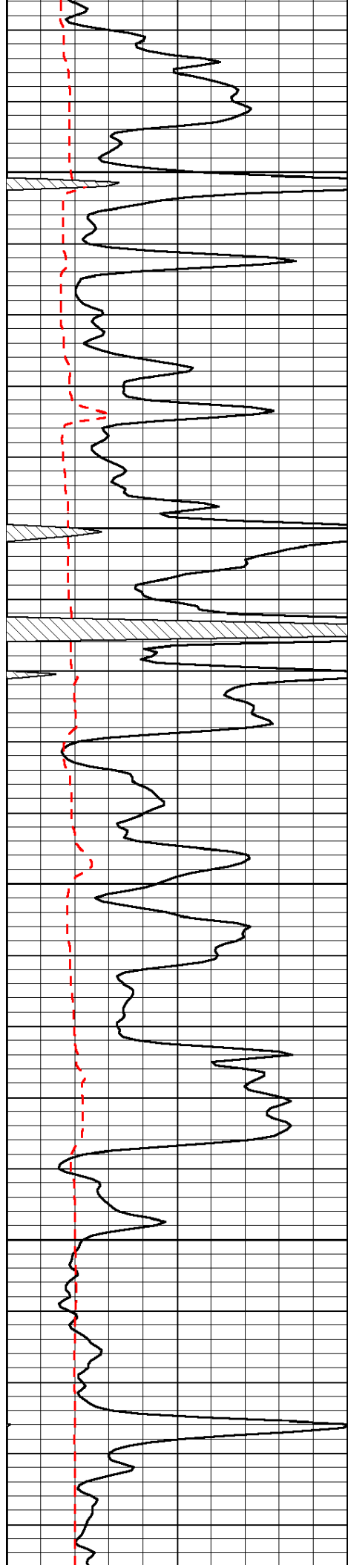


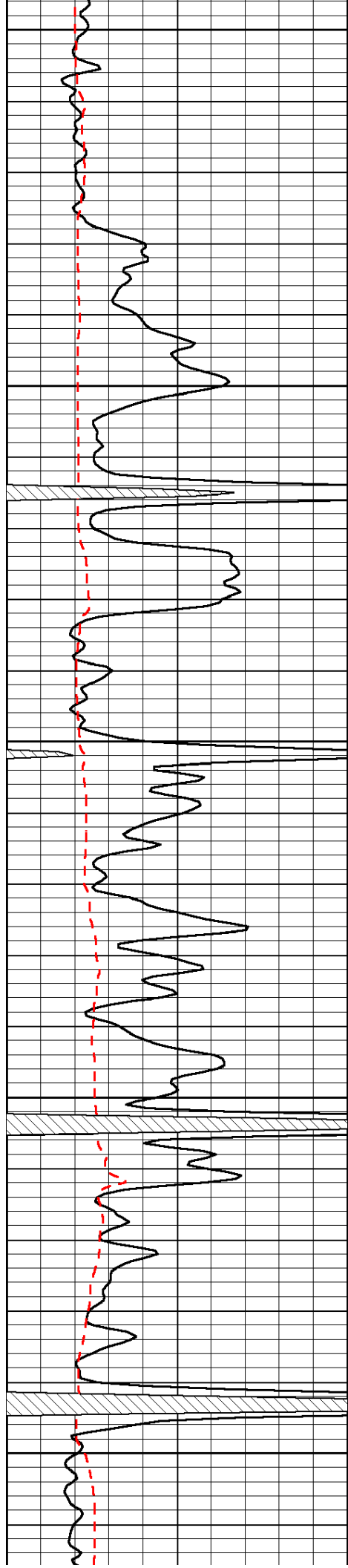












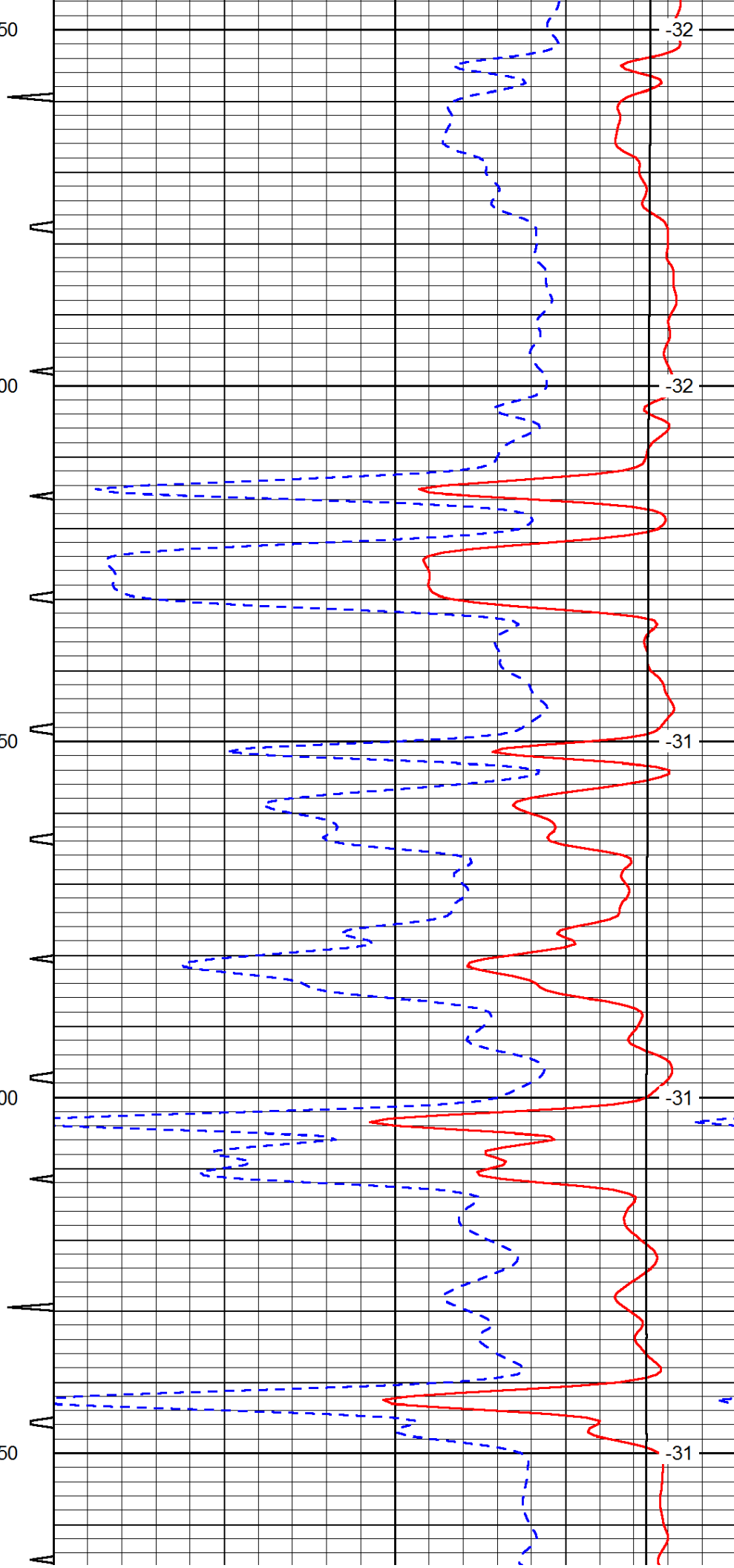
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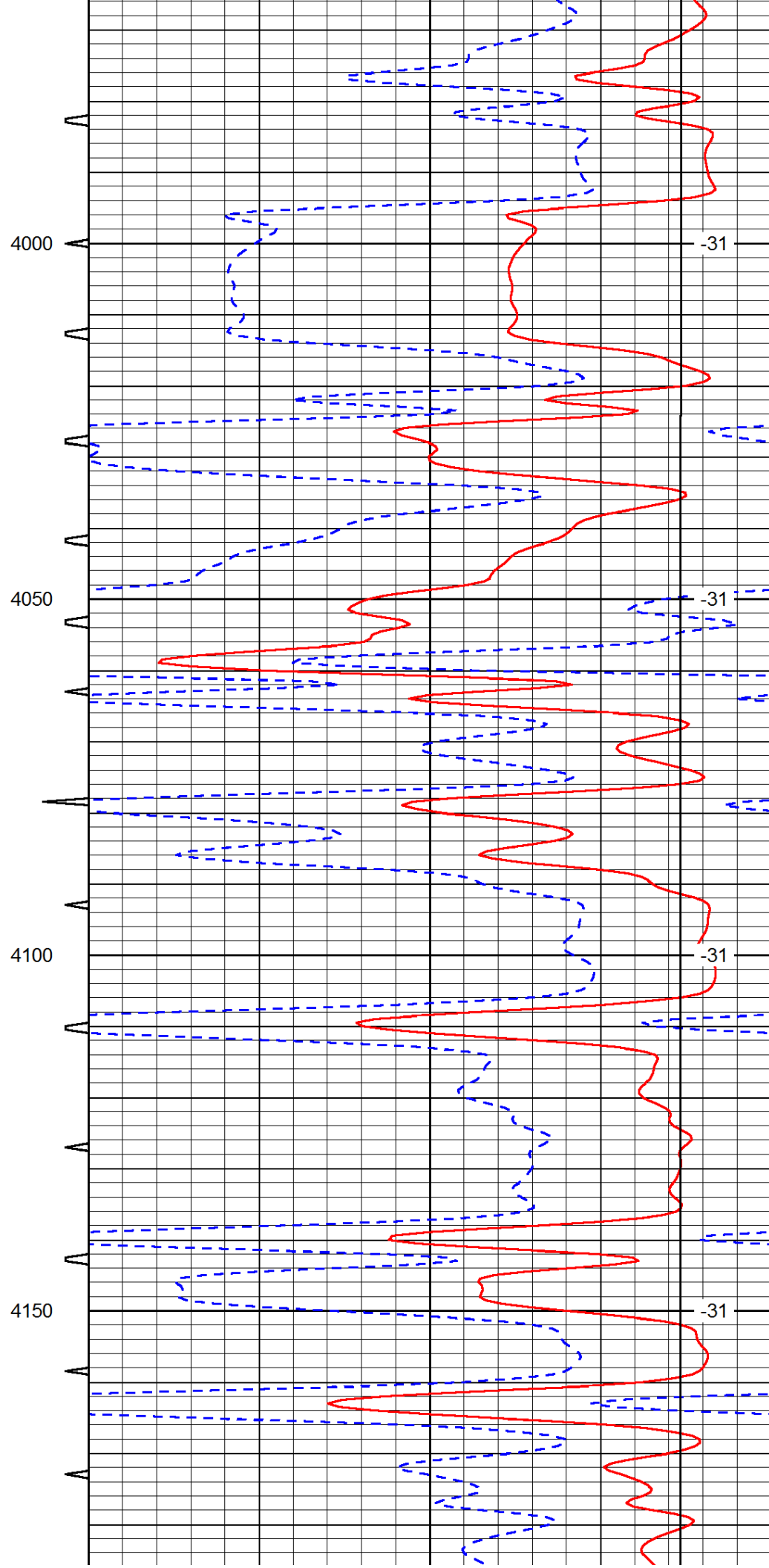
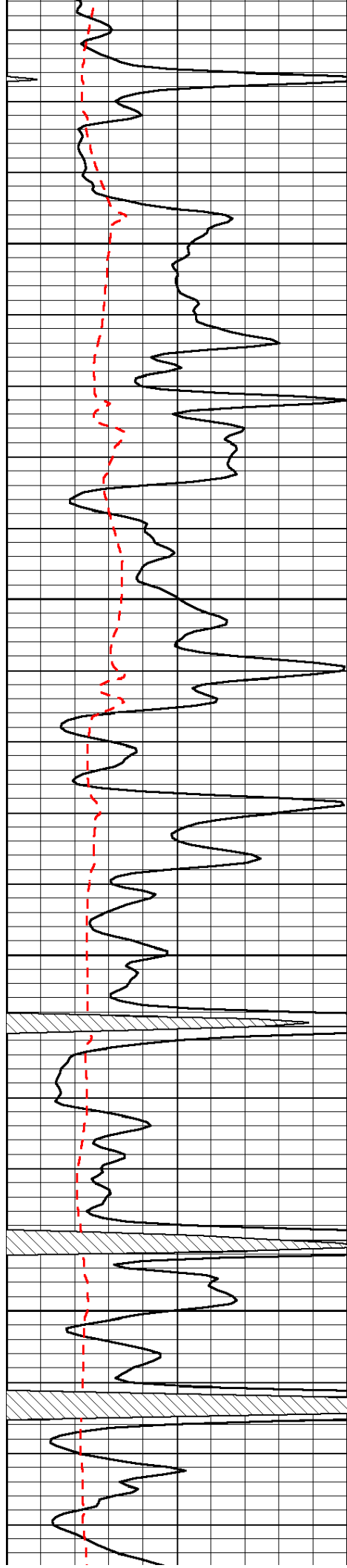
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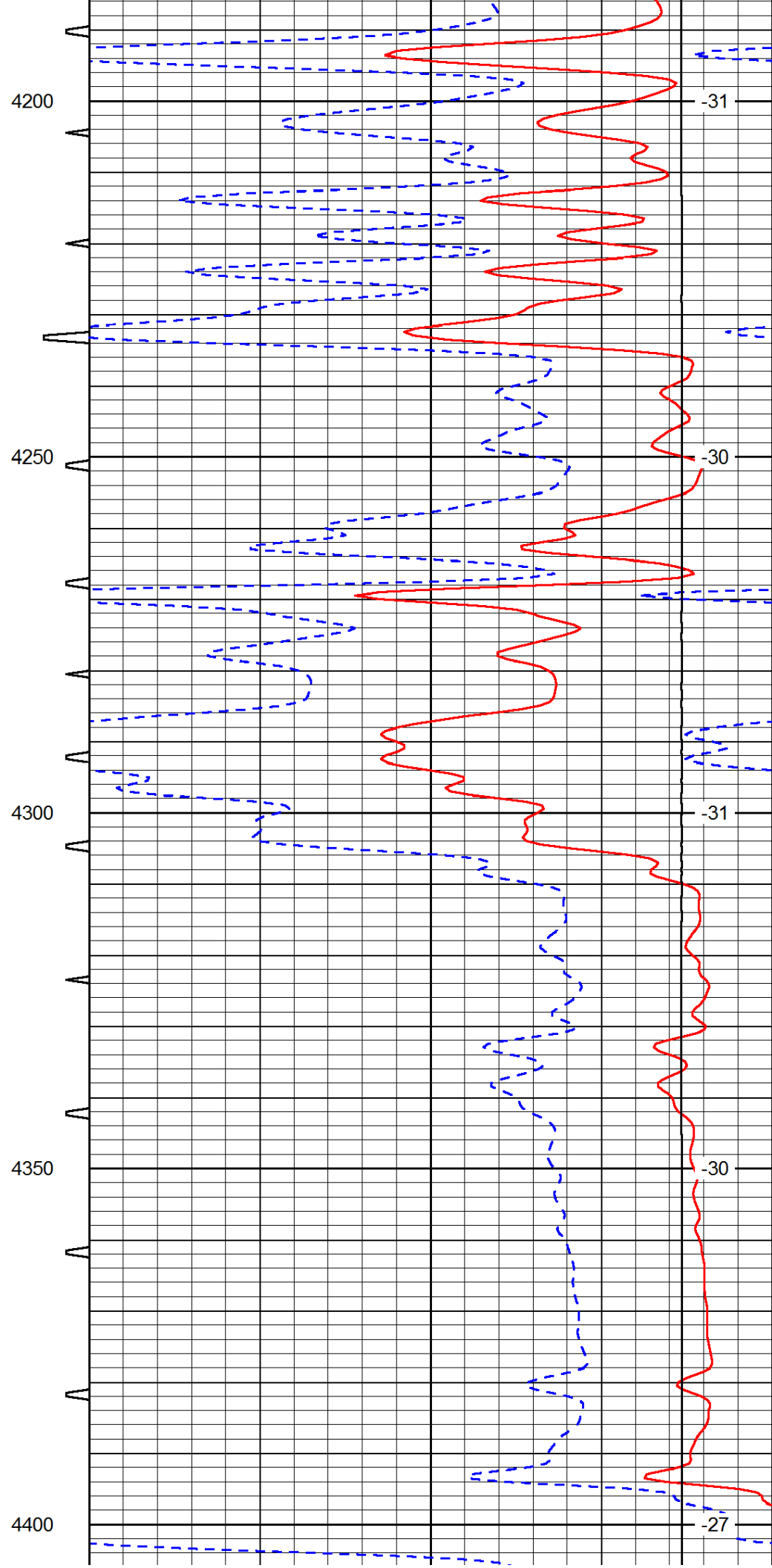
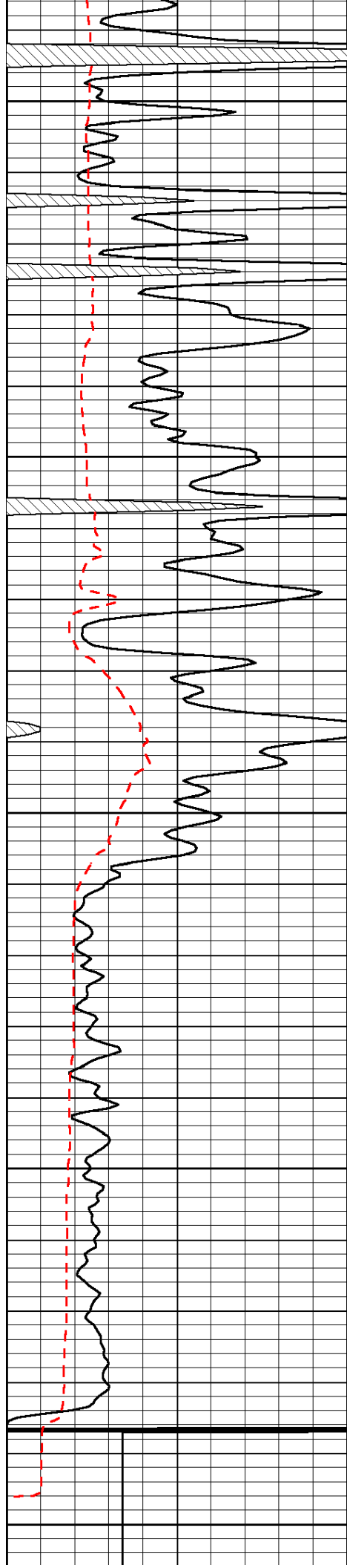
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