



PIONEER

Pioneer Energy Services

Borehole Compensated Sonic Log

API No.

15-165-22068-00-00

Company **Murfin Drilling Company, Inc.**

Well **Oelkers 'B' #1-2**

Field **Wildcat**

County **Rush**

State **Kansas**

Location

1320' FSL & 2310' FWL

Other Services
CNL/CDL
MEL/DIL

Sec: **2**

Twp: **16S**

Rge: **19W**

Elevation

Permanent Datum
Log Measured From
Drilling Measured From

Ground Level
Kelly Bushing
Kelly Bushing

Elevation 2030
5 Ft. Above Perm. Datum

K.B. 2035
D.F.
G.L. 2030

Date

5/10/2014

Run Number

Two

Type Log

BHC Sonic

Depth Driller

3688

Depth Logger

3689

Bottom Logged Interval

3678

Top Logged Interval

1200

Type Fluid In Hole

Chemical

Salinity, PPM CL

7000

Density

9.3

Level

Full

Max. Rec. Temp. F

115

Operating Rig Time

5 Hours

Equipment -- Location

91 Hays

Recorded By

D. Schmidt

Witnessed By

Andy White

Borehole Record

Casing Record

Run No

Bit

From

To

Size

Wgt.

From

To

One

12.25

00

1230

8.625

23#

00

1230

Two

7.875

1230

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.

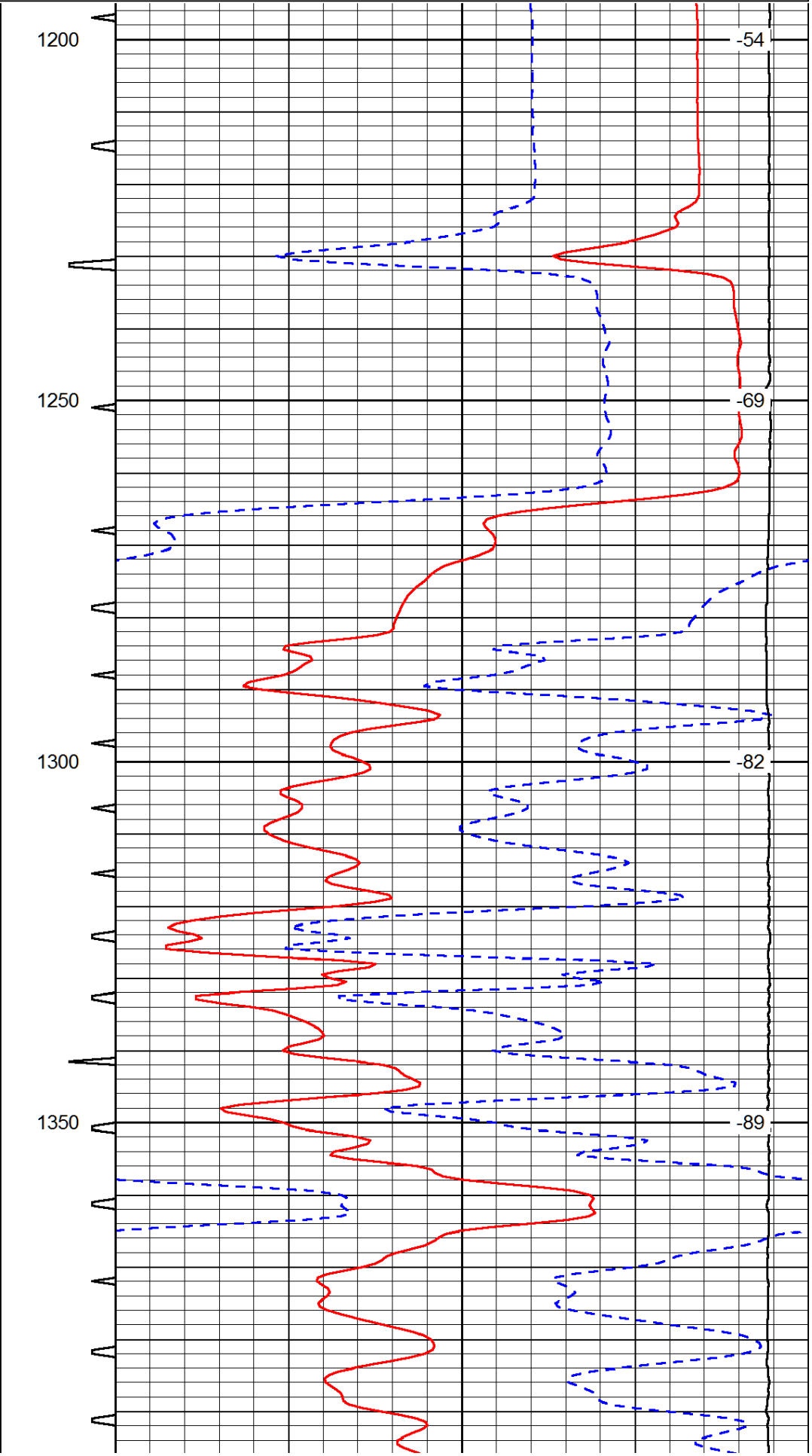
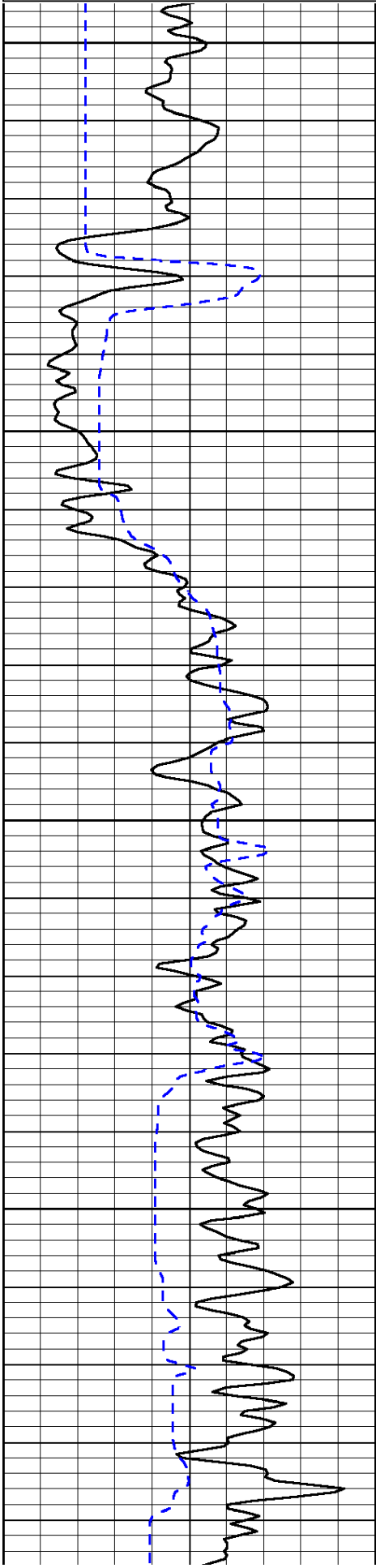
Comments

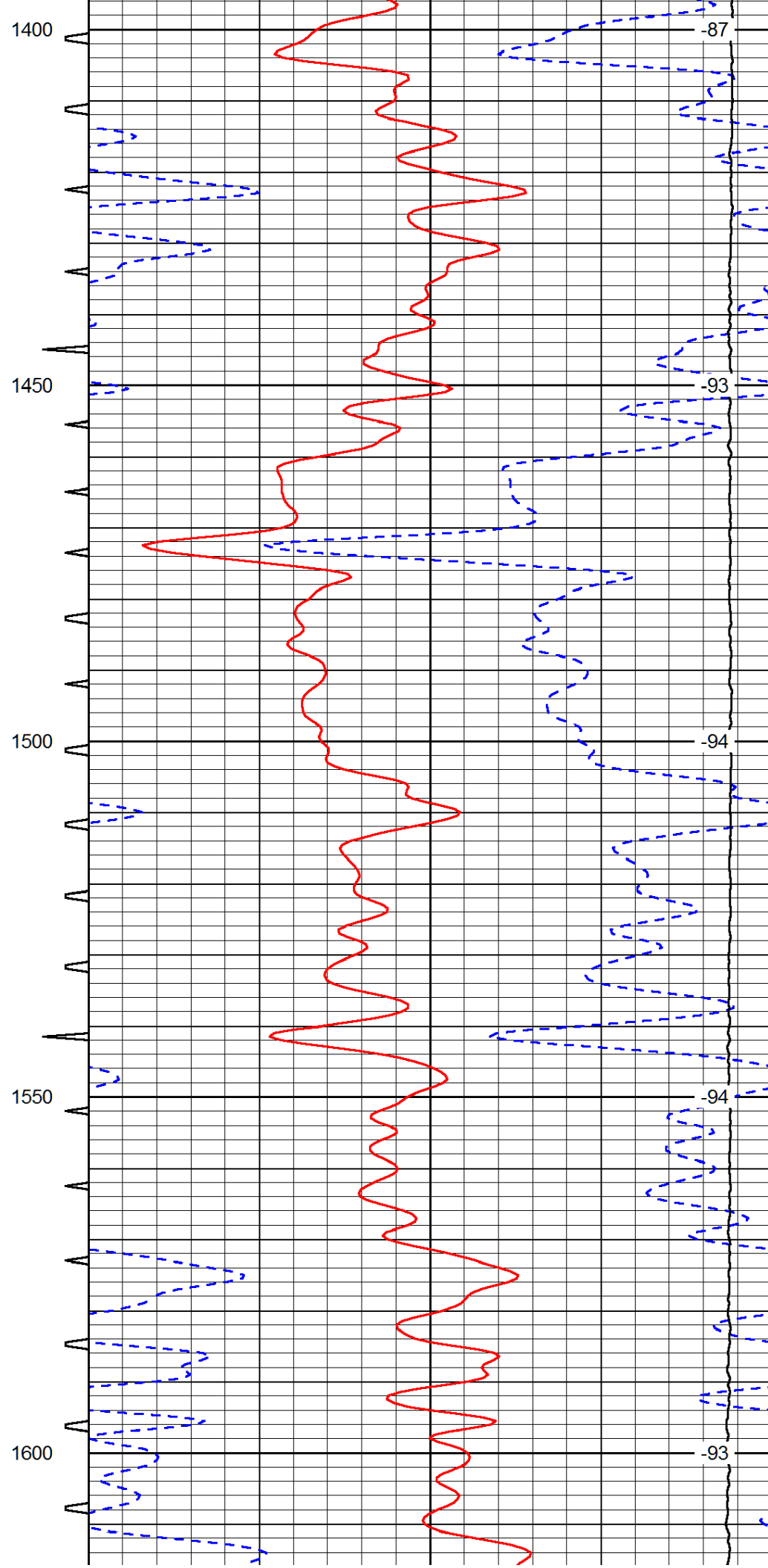
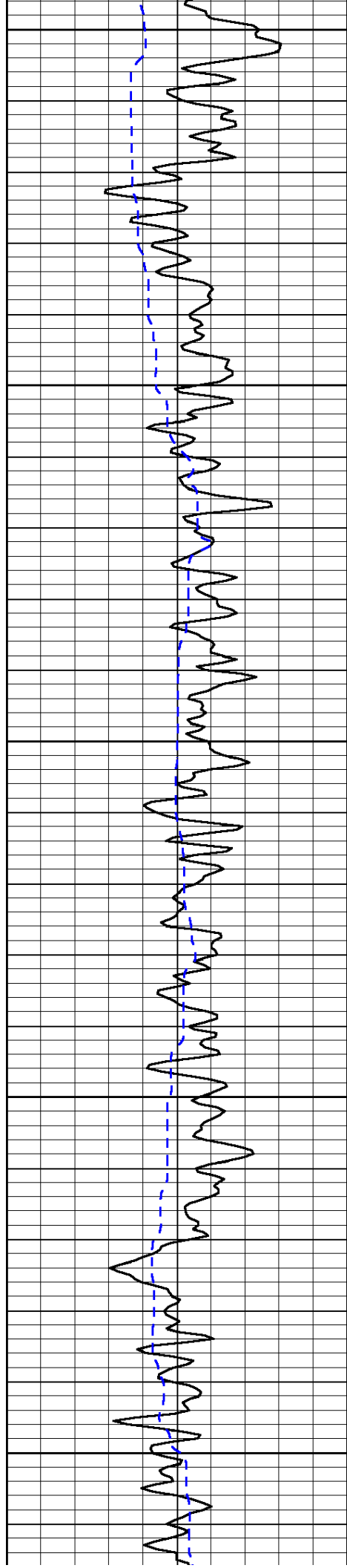
Thank you for using Log-Tech, Inc.
(785) 625-3858

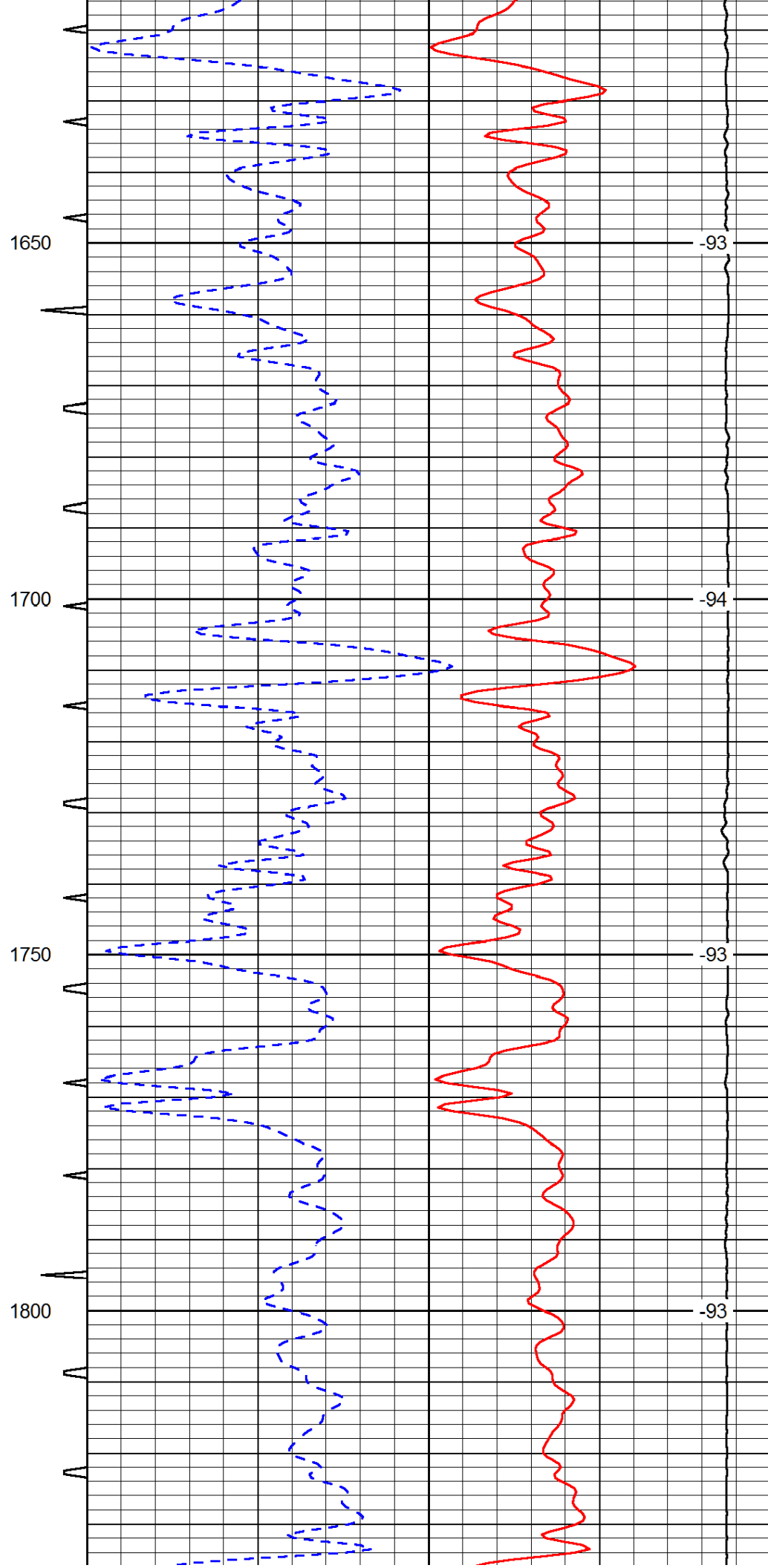
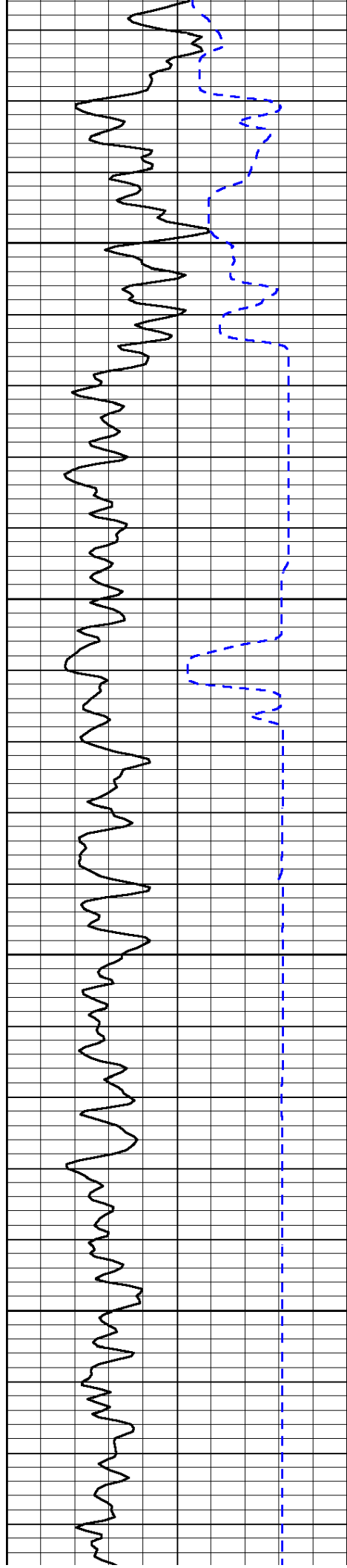
Liebenthal,
North to B Rd, 4 West,
North into 100 yards West of TB

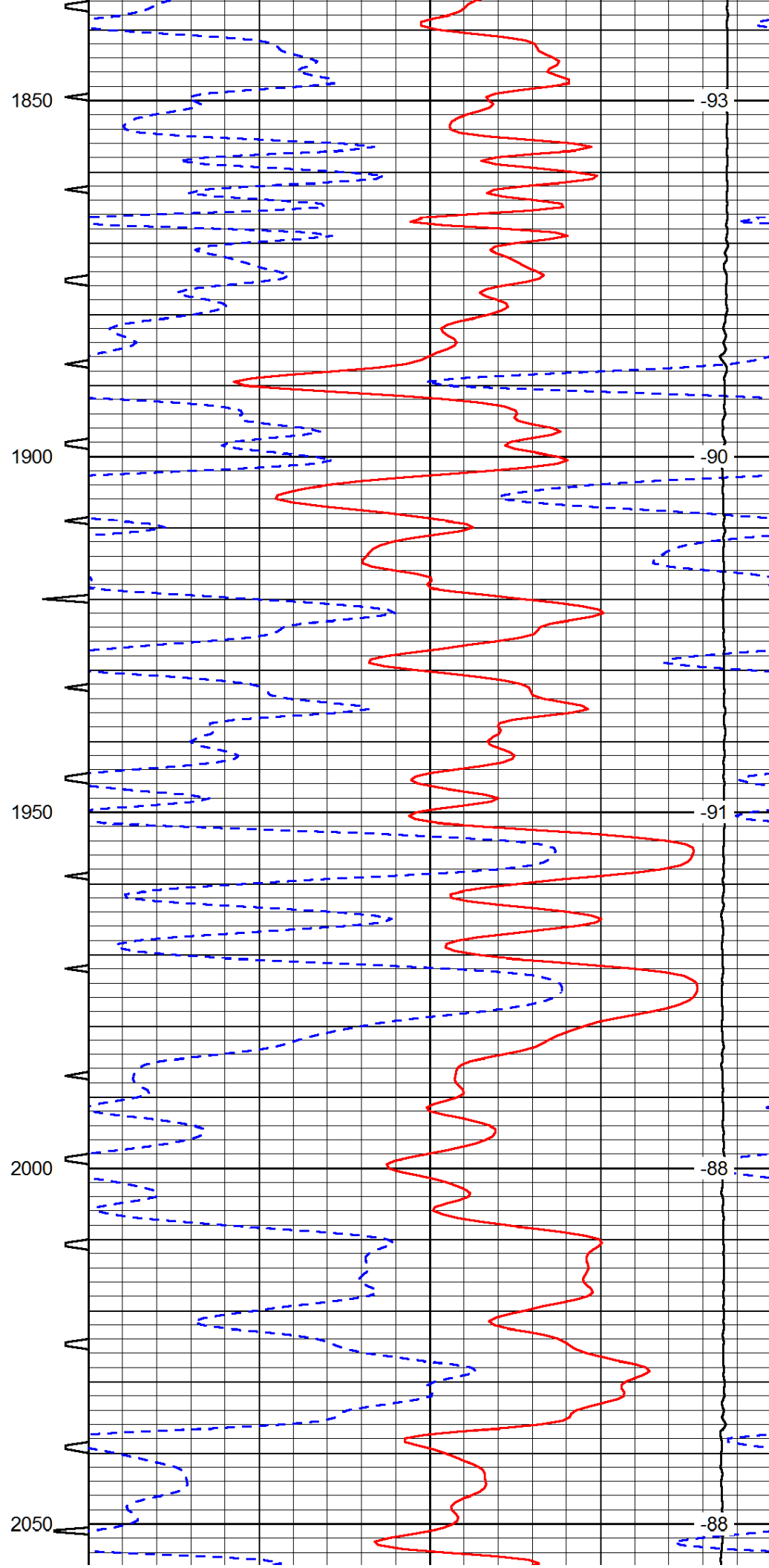
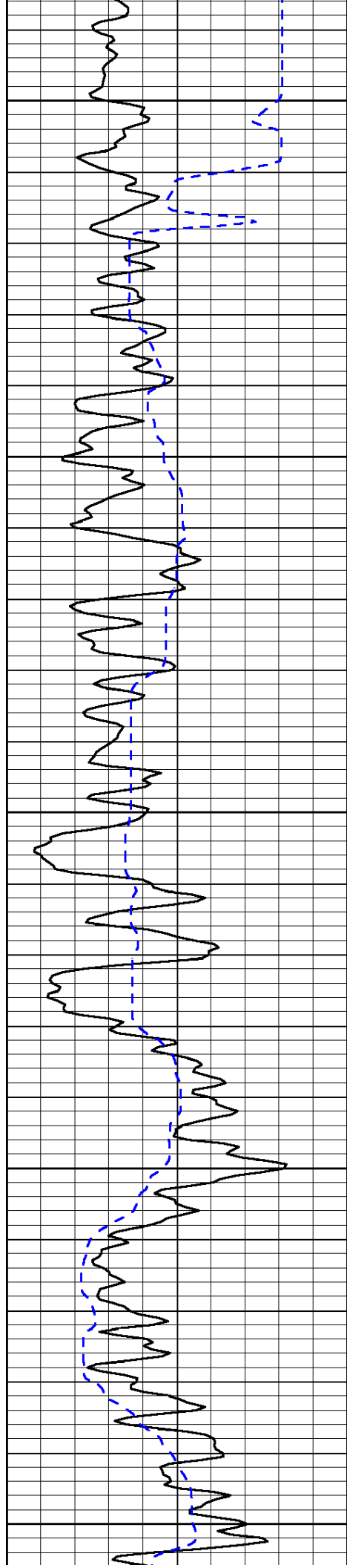
Database File: murfin_091014hd.db
Dataset Pathname: dil/mrfstck
Presentation Format: sonic
Dataset Creation: Sat May 10 15:20:38 2014
Charted by: Depth in Feet scaled 1:240

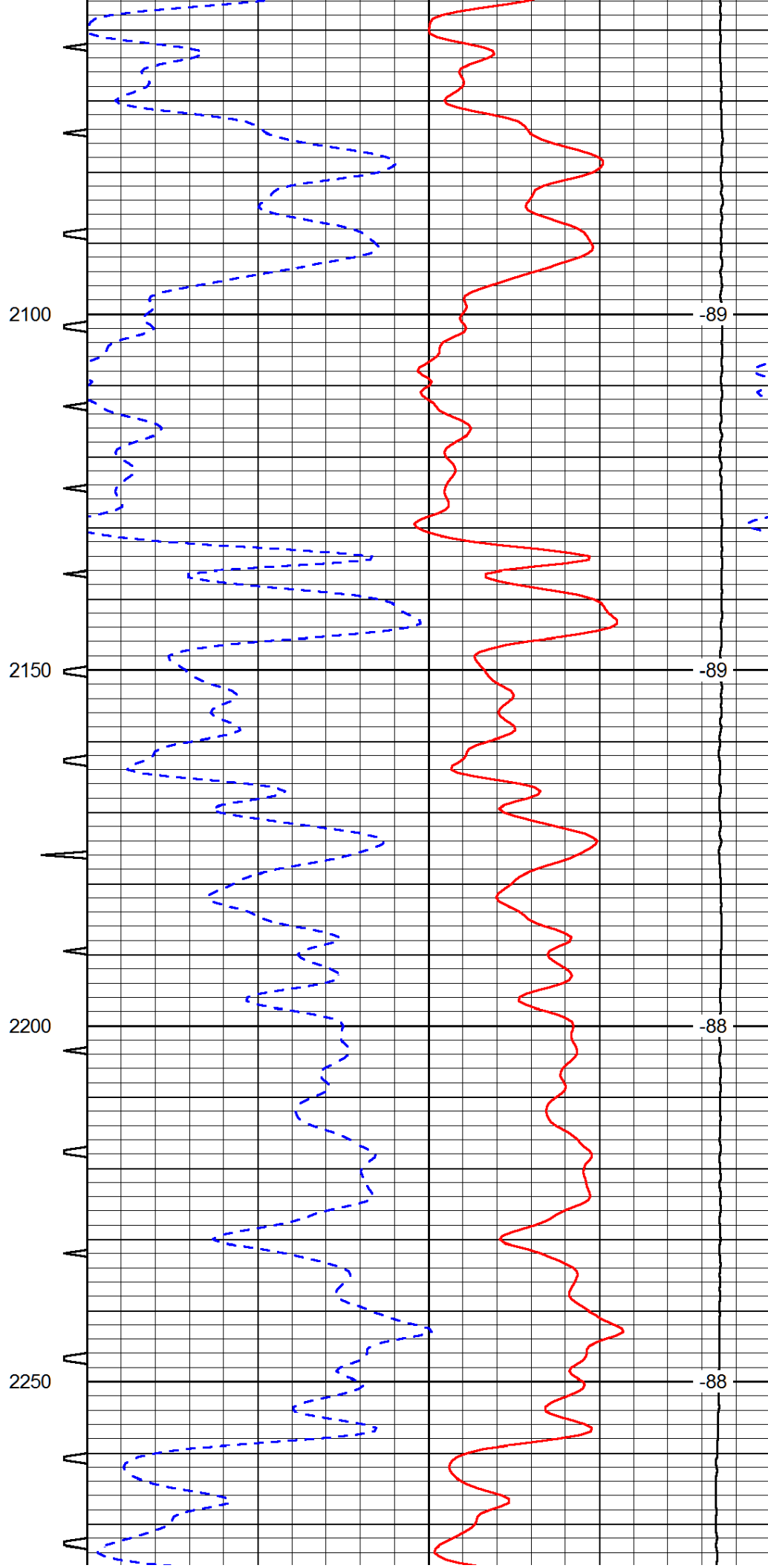
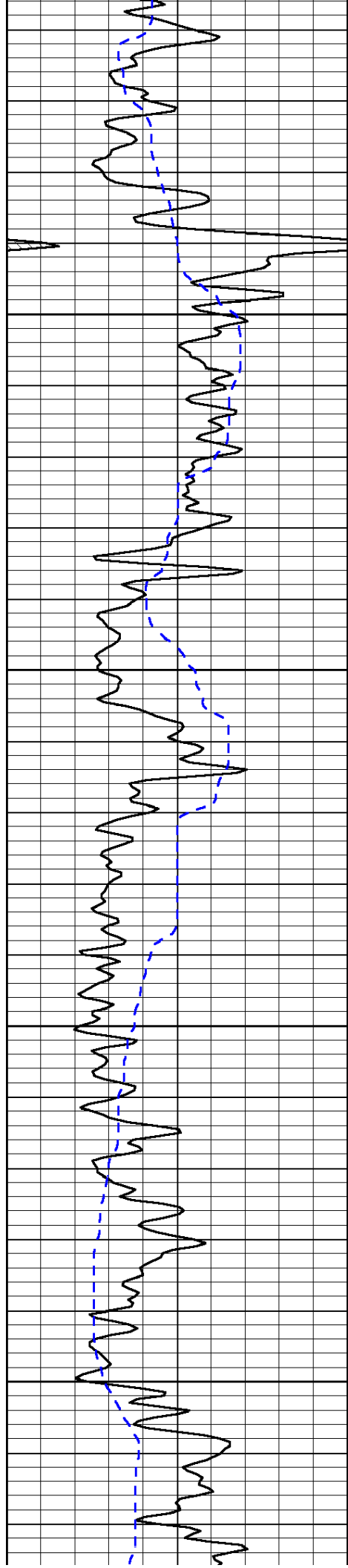
0	Gamma Ray	150	Sonic Int	140	Delta Time (usec/ft)	40	
150	Gamma Ray	300	5	0	30	Sonic Porosity	-10
6	dCAL (GAPI)	16			15000	LTEN (lb)	0
							LSPD

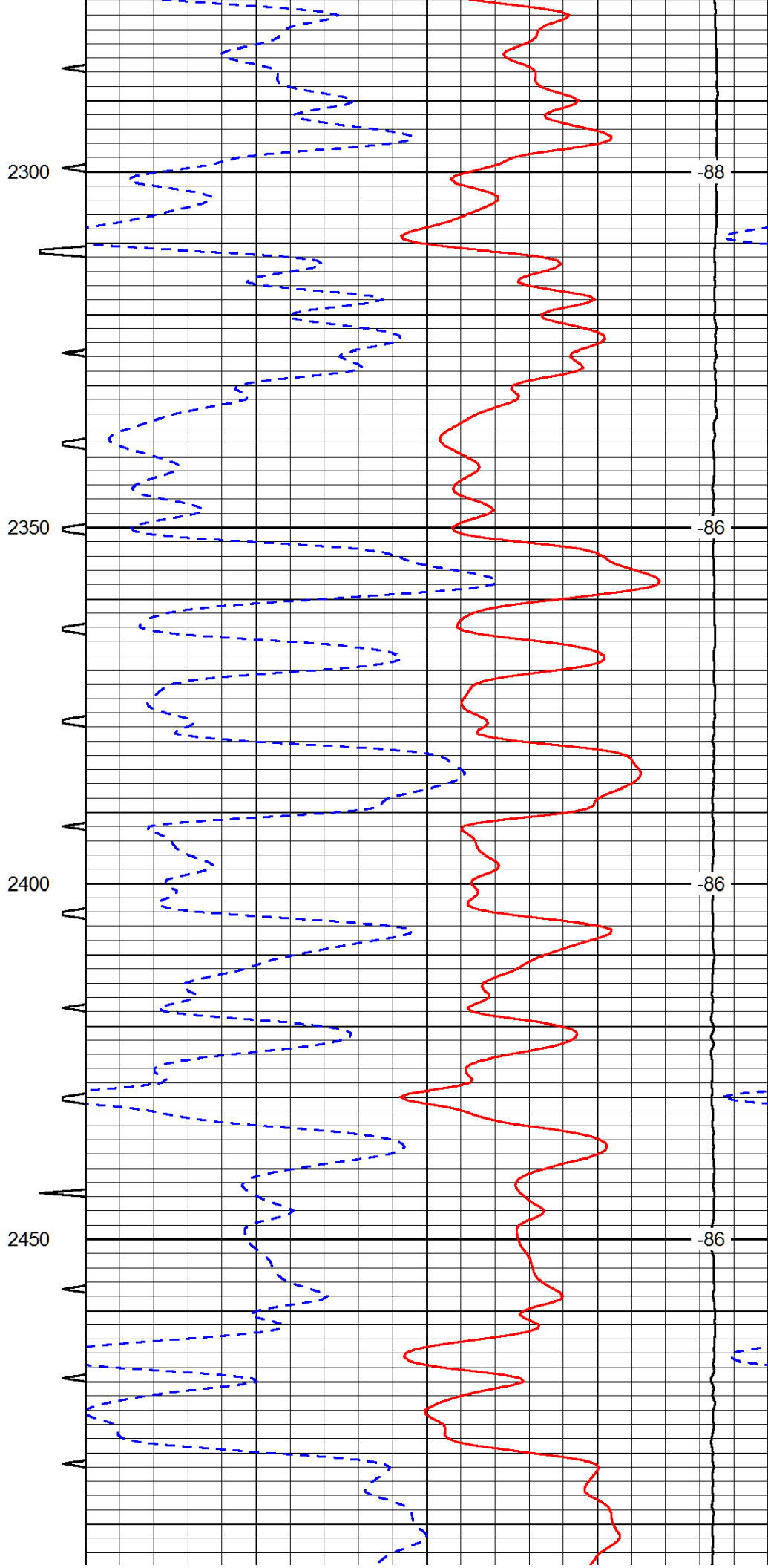
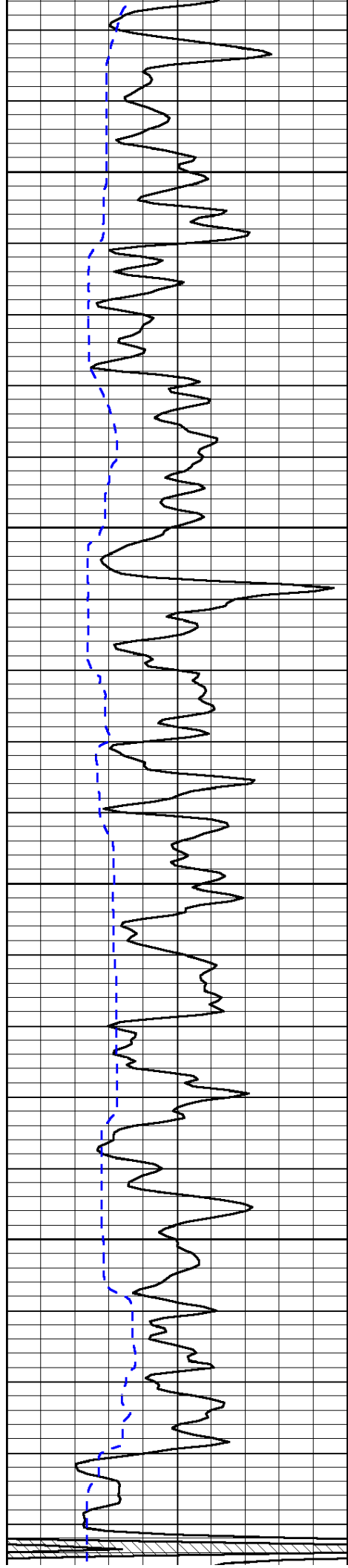


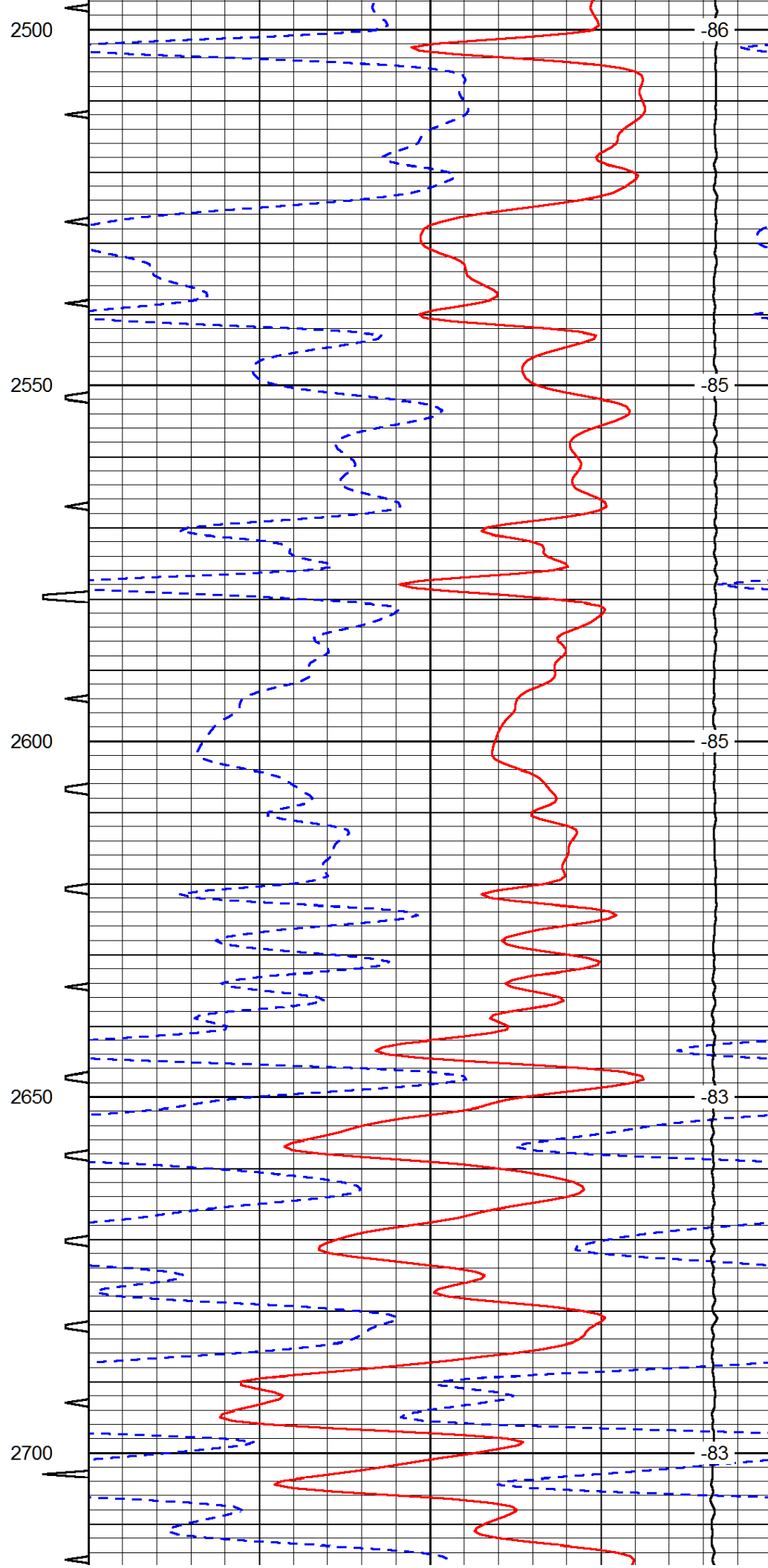
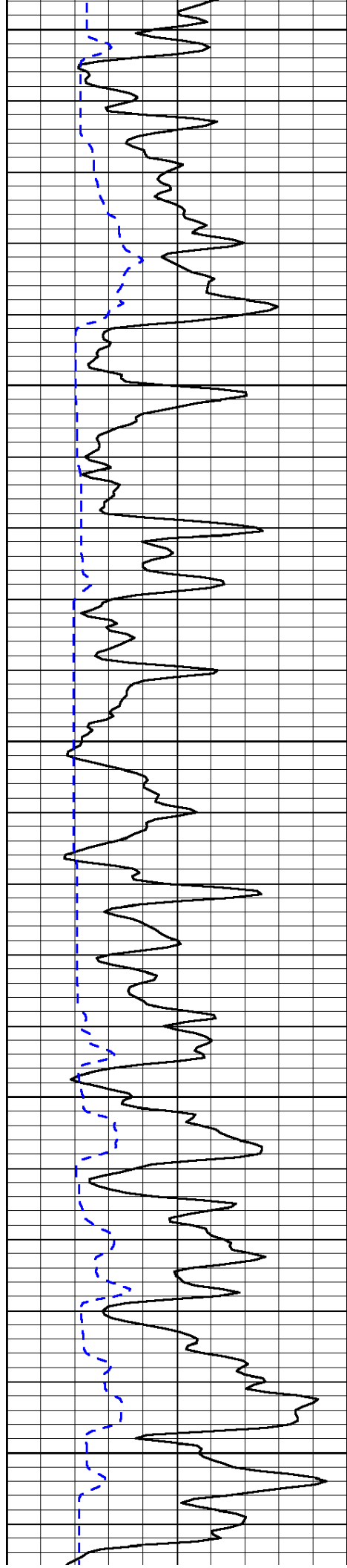


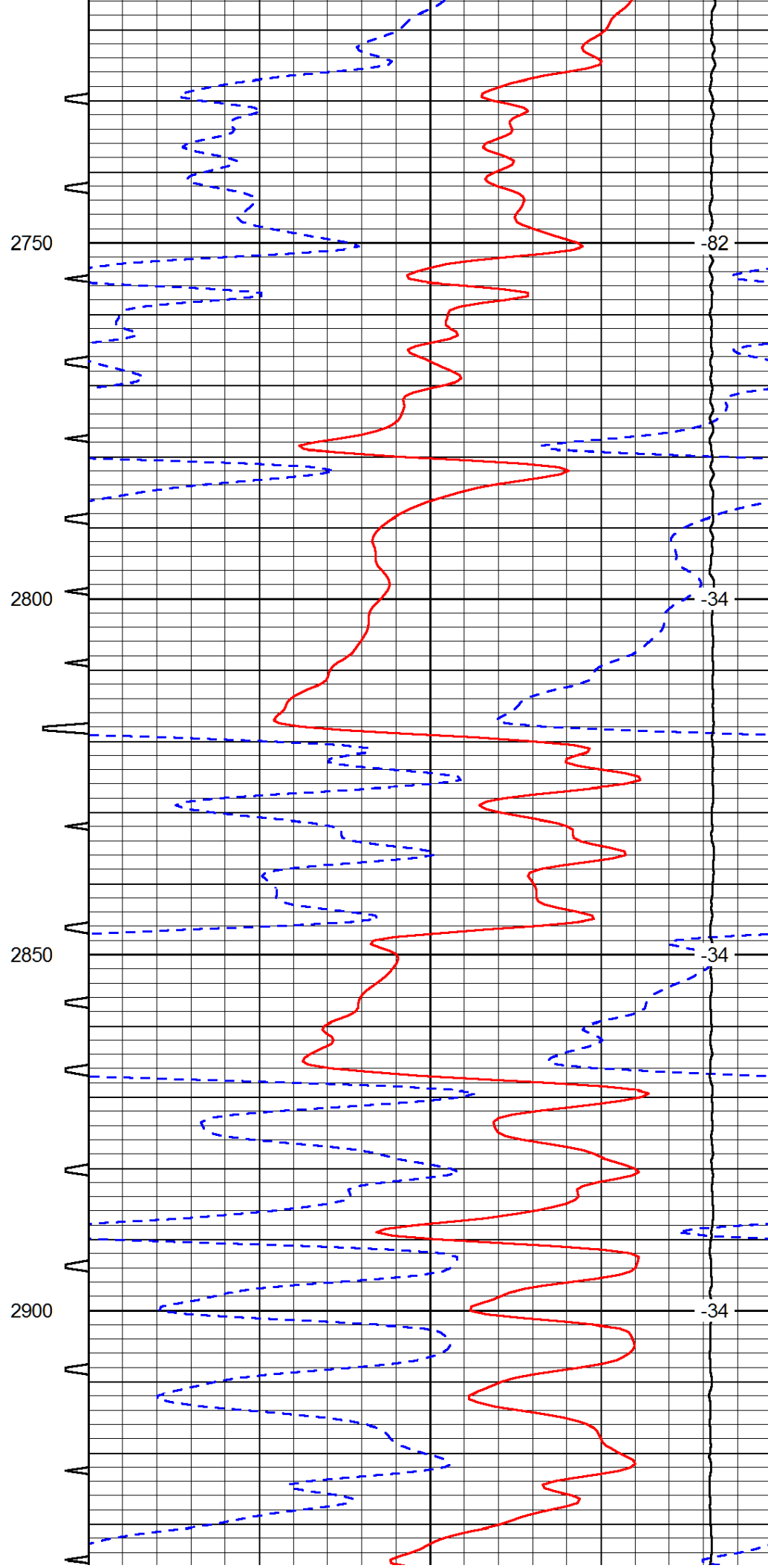
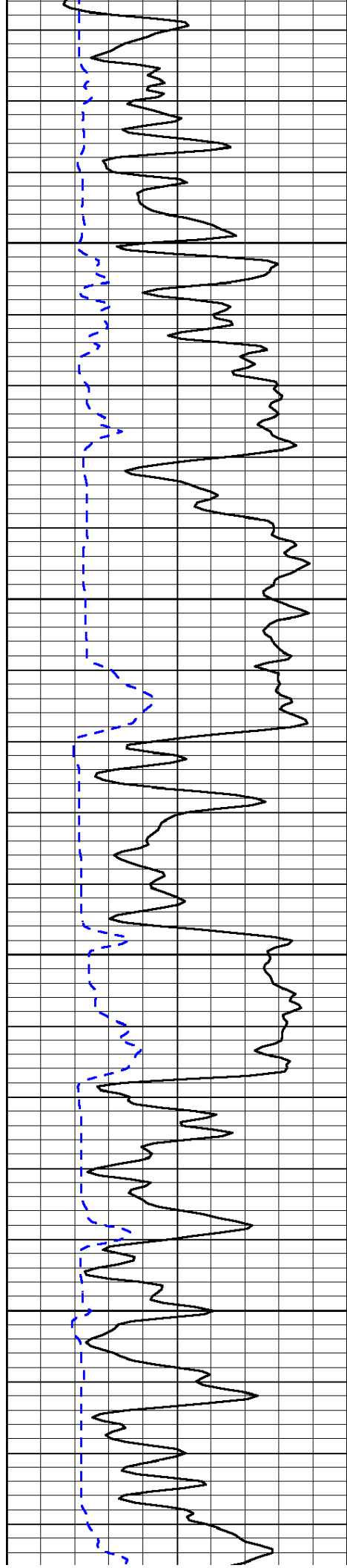


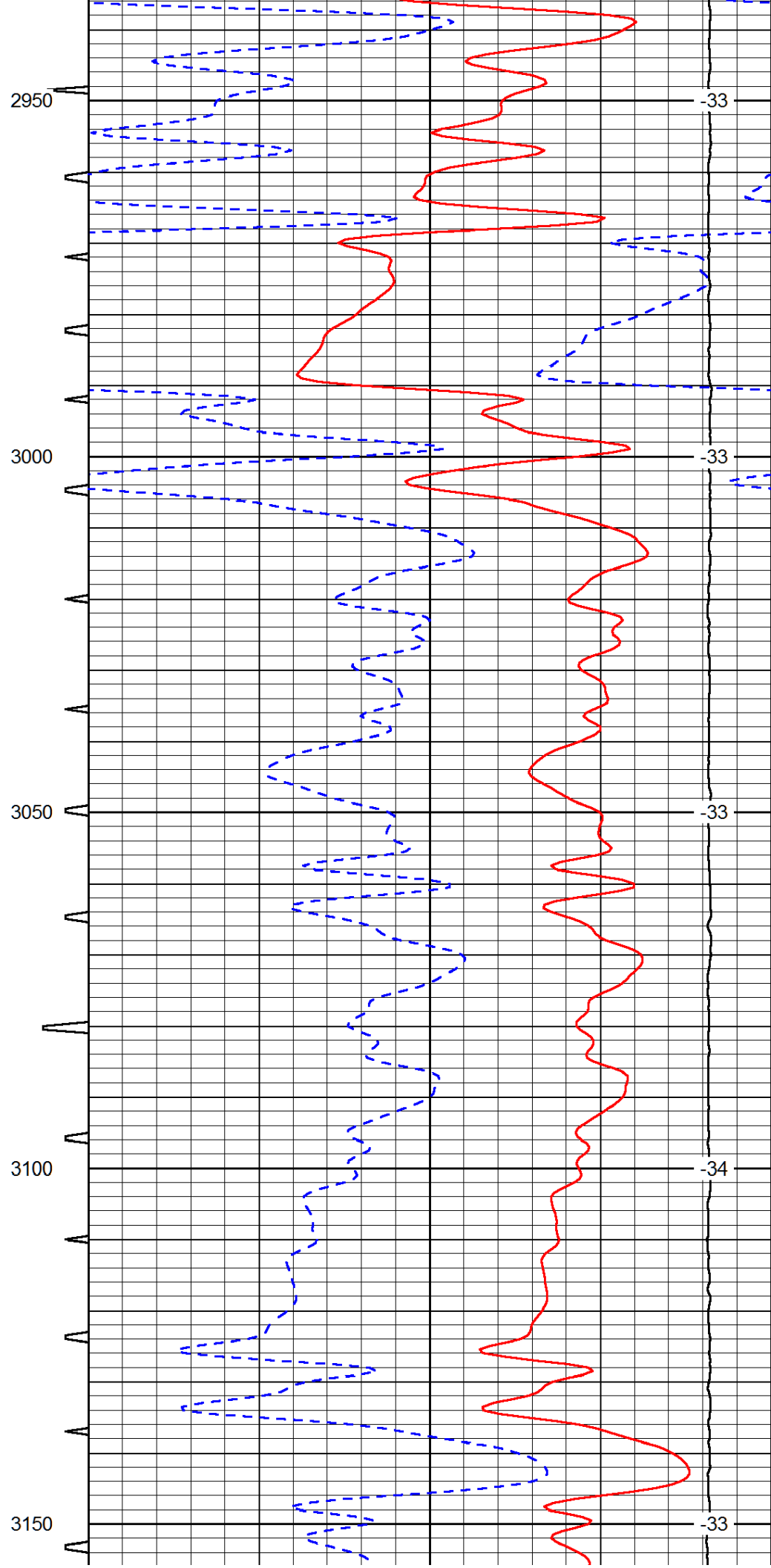
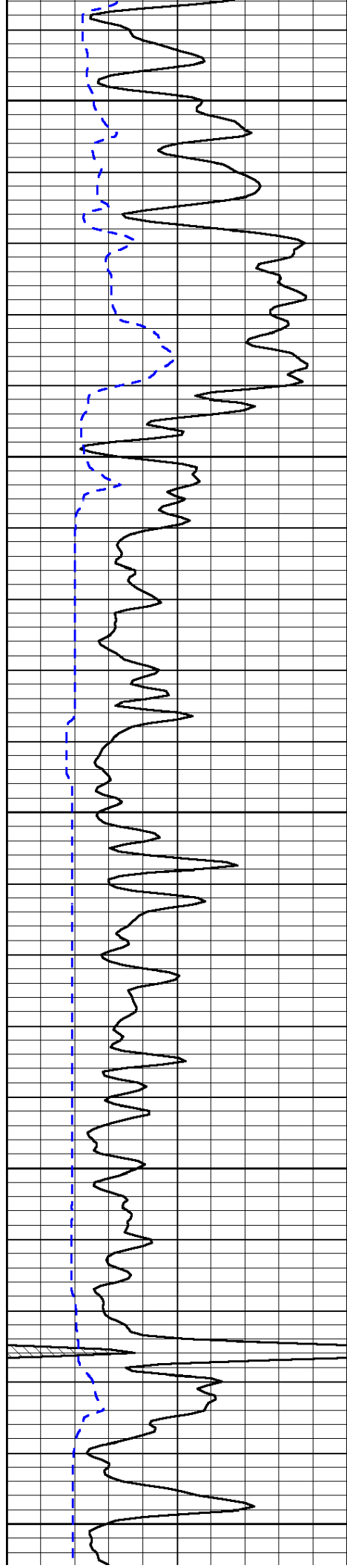


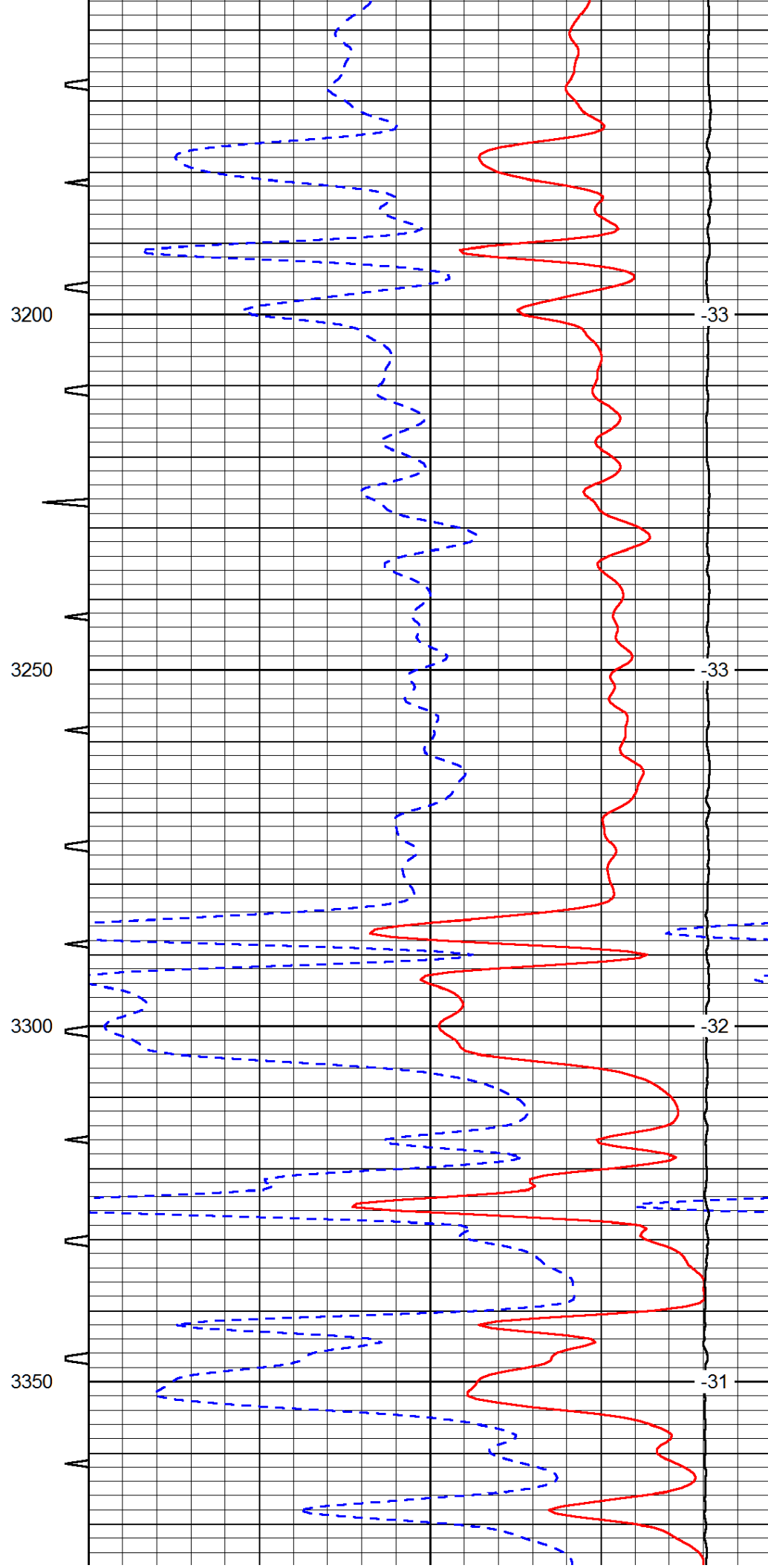
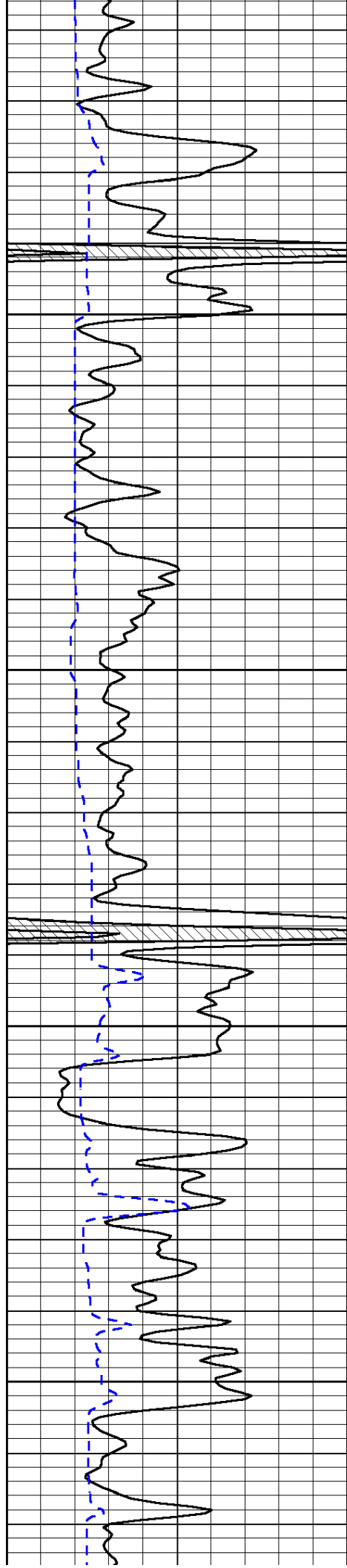


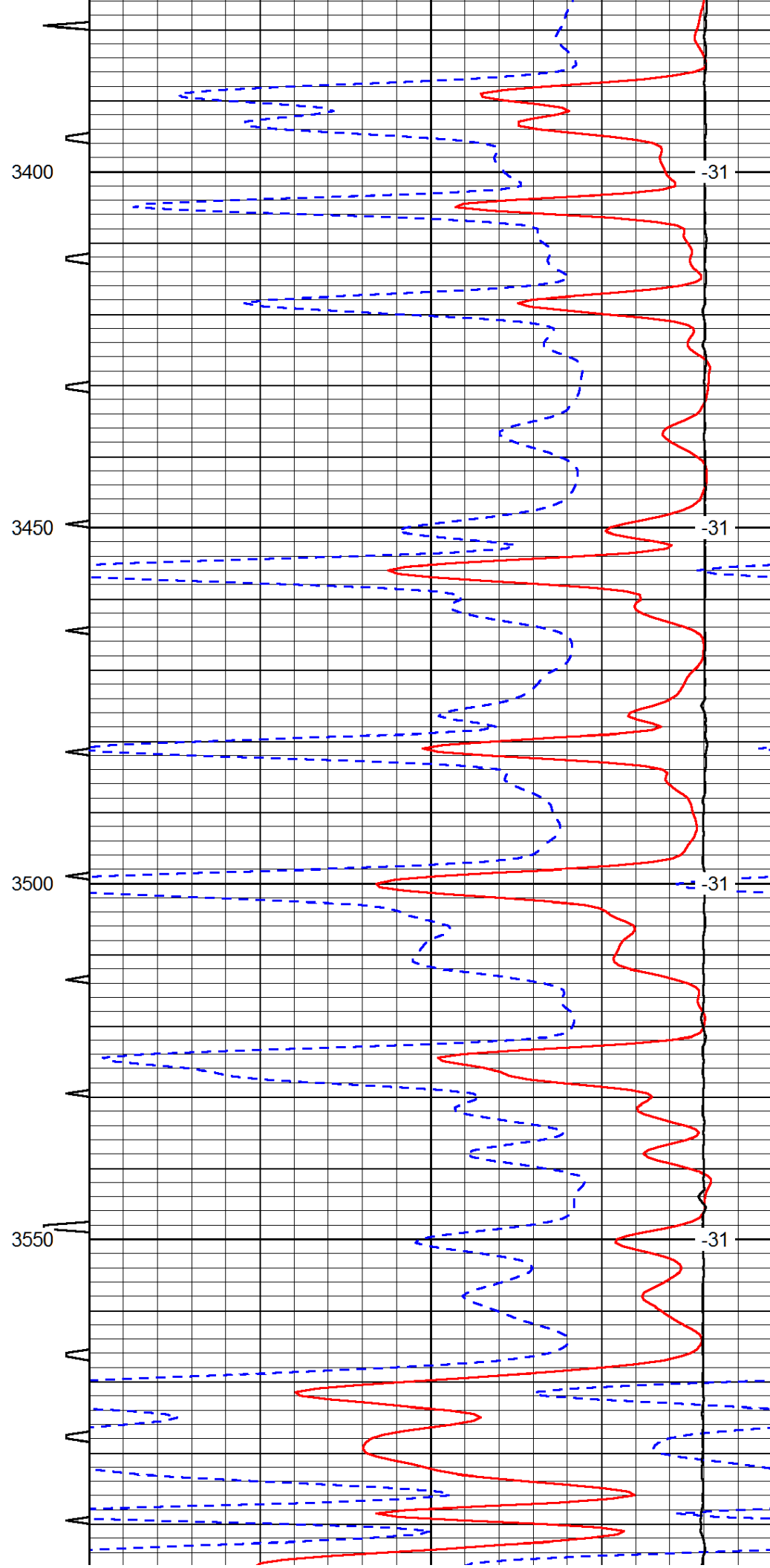
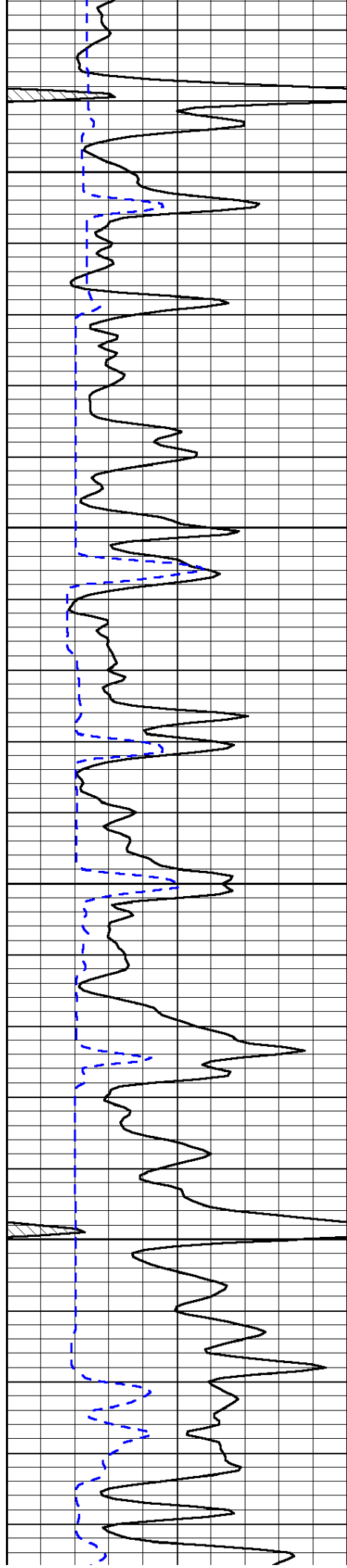


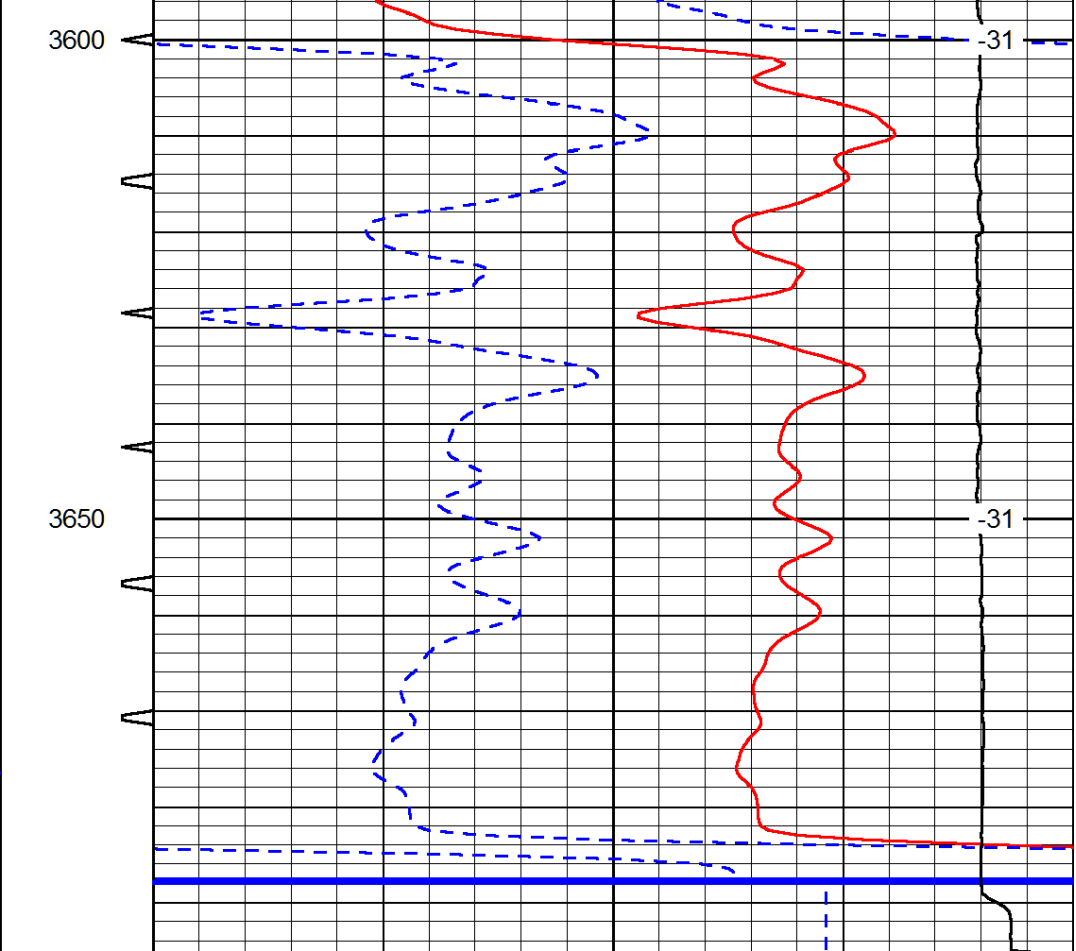
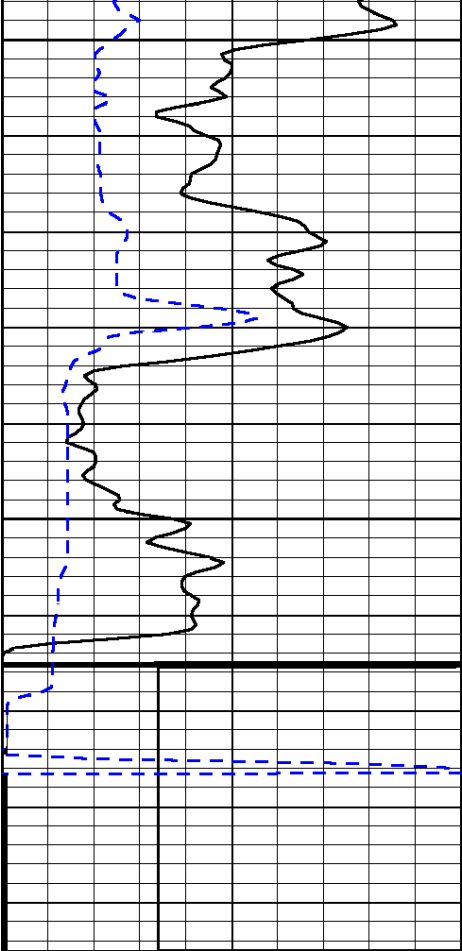












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