



Dual Induction Log

Pioneer Energy Services

API No.

15-055-22,275-00-00

Company American Warrior, Inc.

Well Neeley No. 9-33

Field Congdon

County Finney

State

Kansas

Location SW-NE-NW-NE
346' FNL & 1662' FEL

Sec: 33

Twp: 23S

Rge: 32W

Other Services
CNL/CDL
MEI/BHCS

Permanent Datum Ground Level Elevation 2831
Log Measured From Kelly Bushing 11 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Date

2/24/14

Run Number

One

Depth Driller

4850

Depth Logger

4845

Bottom Logged Interval

4844

Top Log Interval

1700

Casing Driller

8.625 @ 1737

Casing Logger

1740

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

3,500

Density / Viscosity

9.4 45

pH / Fluid Loss

10.0 6.4

Source of Sample

Flowline

Rm @ Meas. Temp

.70 @ 43

Rmf @ Meas. Temp

.53 @ 43

Rmc @ Meas. Temp

.95 @ 43

Source of Rmf / Rmc

Charts

Rm @ BHT

.24 @ 125

Operating Rig Time

5 Hours

Max Rec. Temp. F

125

Equipment Number

15

Location

Hays

Recorded By

J. Henrickson

Witnessed By

Kevin Timson

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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

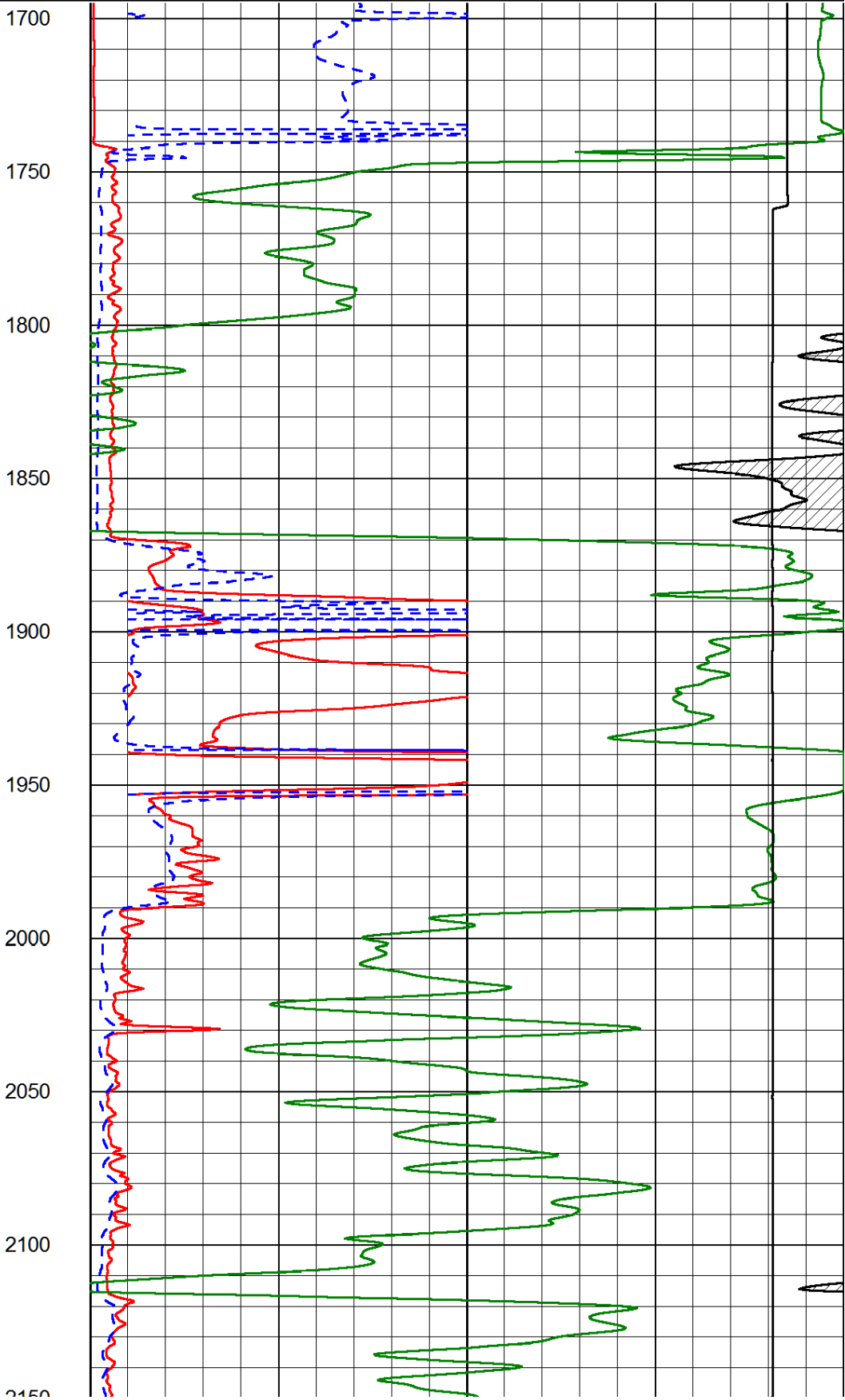
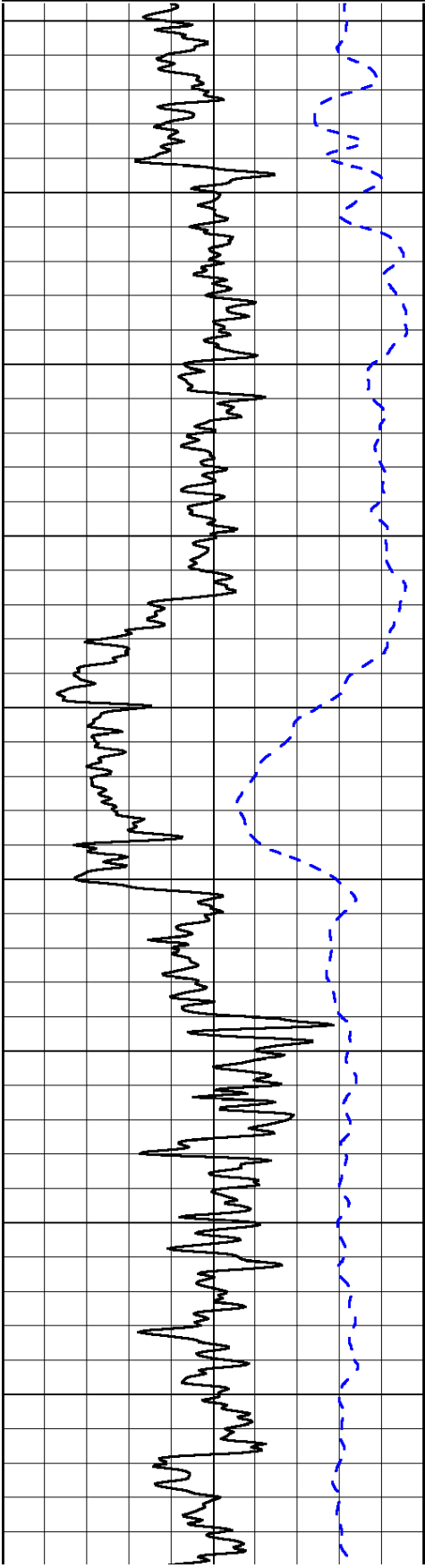
Thank you for using Log-Tech, Inc.
(785) 625-3858

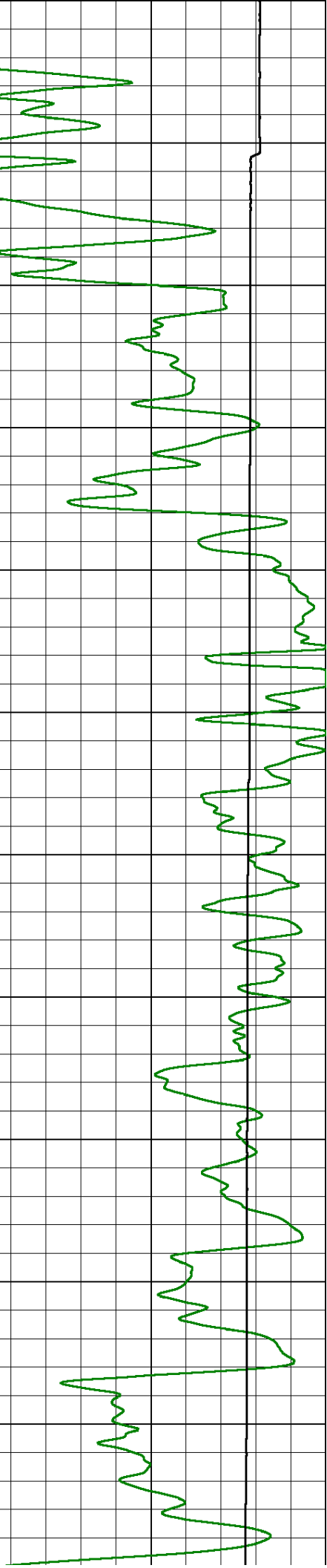
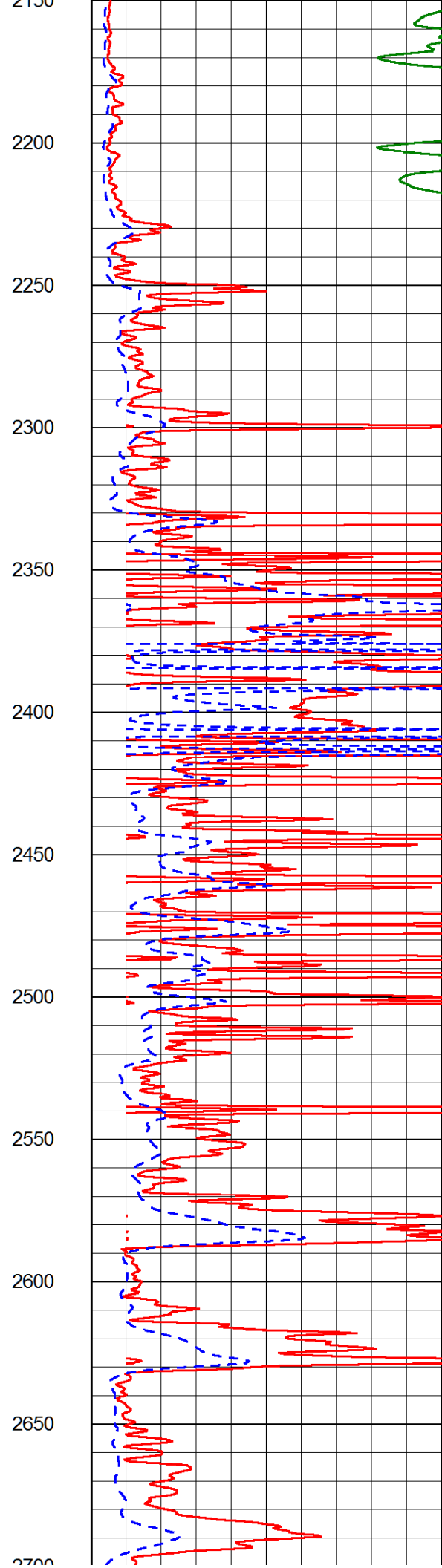
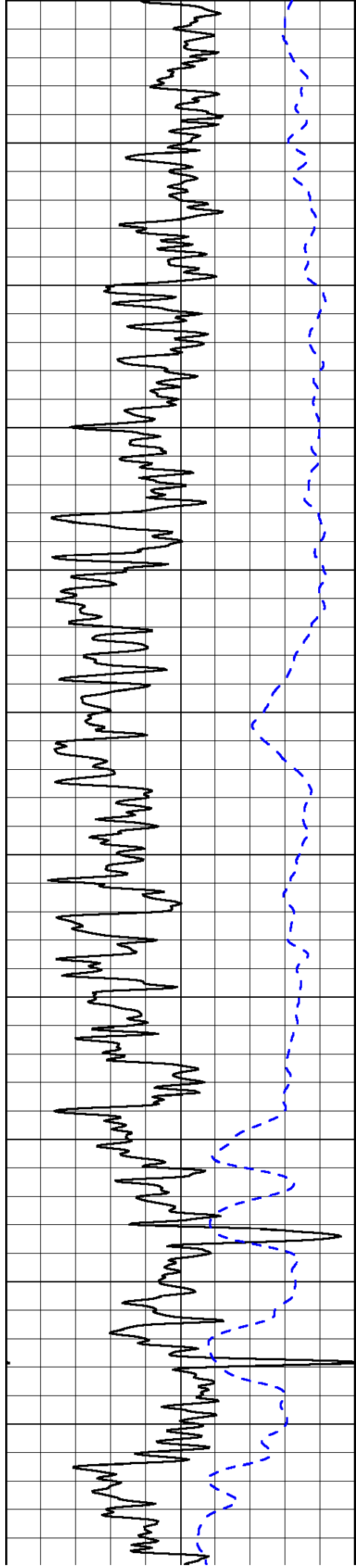
Garden City Kansas
1 North on HWY 83 to Rodkey Rd, 2 3/4 East, South Into

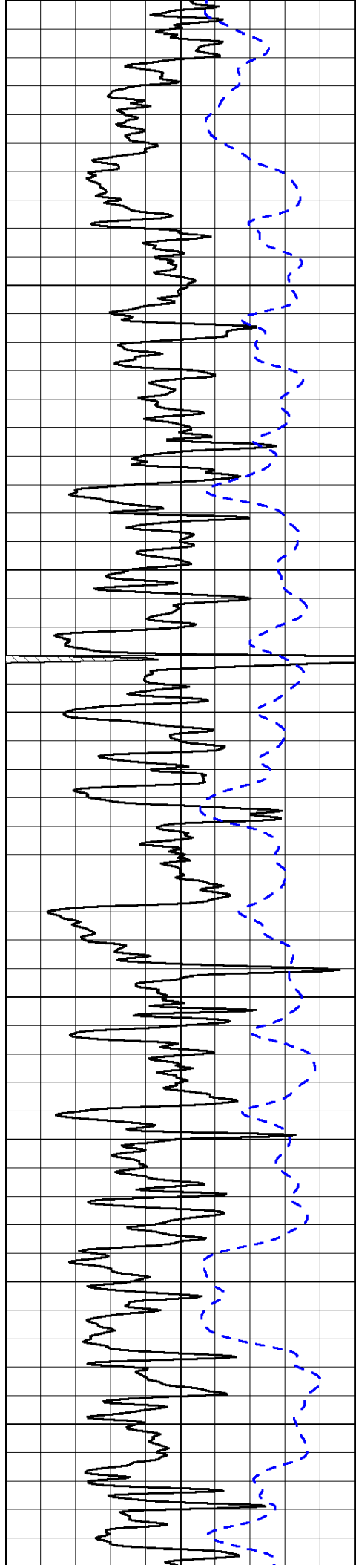
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Dataset Pathname: DIL/awstk
Presentation Format: dil2in
Dataset Creation: Mon Feb 24 06:50:03 2014
Charted by: Depth in Feet scaled 1:600

0	Gamma Ray (GAPI)	150
-200	SP (mV)	0

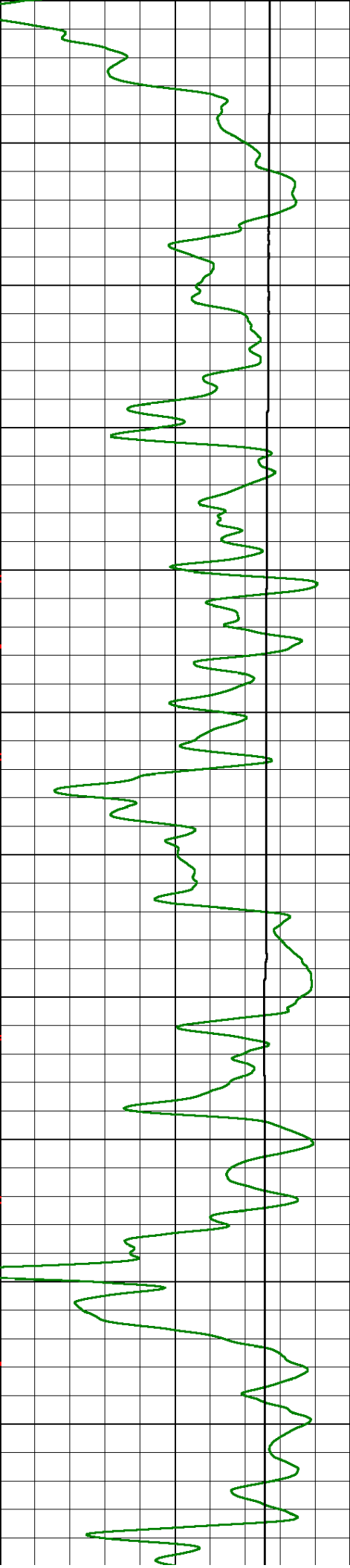
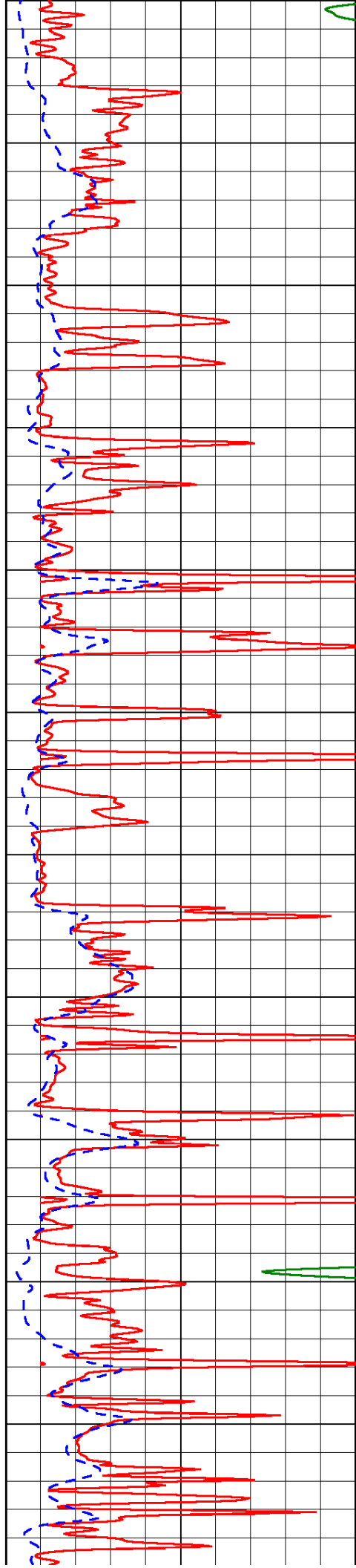
0	Shallow Resistivity (Ohm-m)	50
0	Deep Resistivity (Ohm-m)	50
1000	Conductivity (Ohm-m)	0
15000	Line Tension (lb)	0
Shallow Resistivity		
50	(Ohm-m)	500
50	Deep Resistivity (Ohm-m)	500

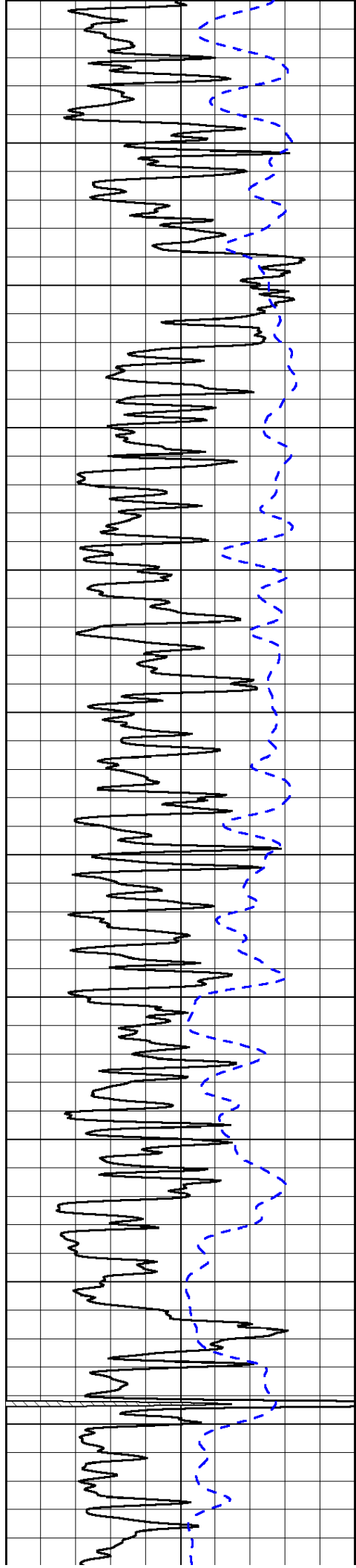




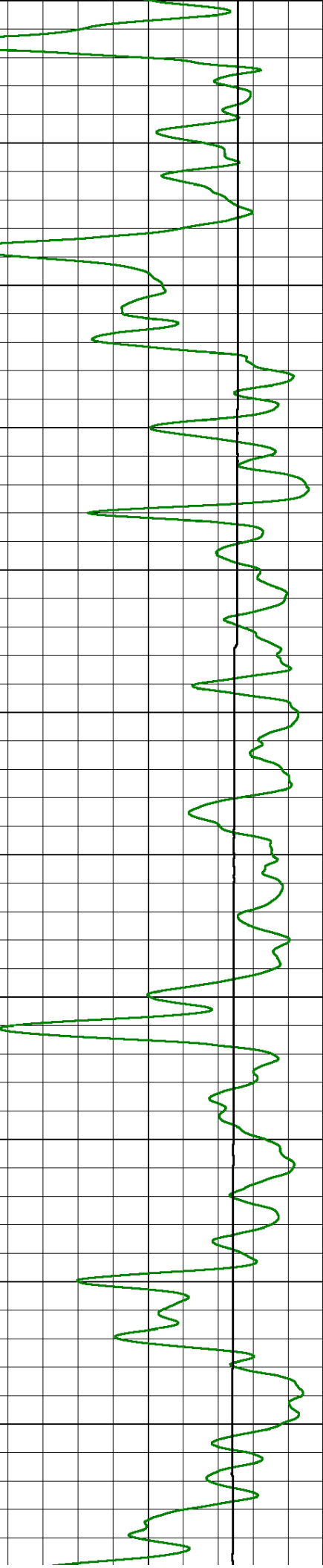
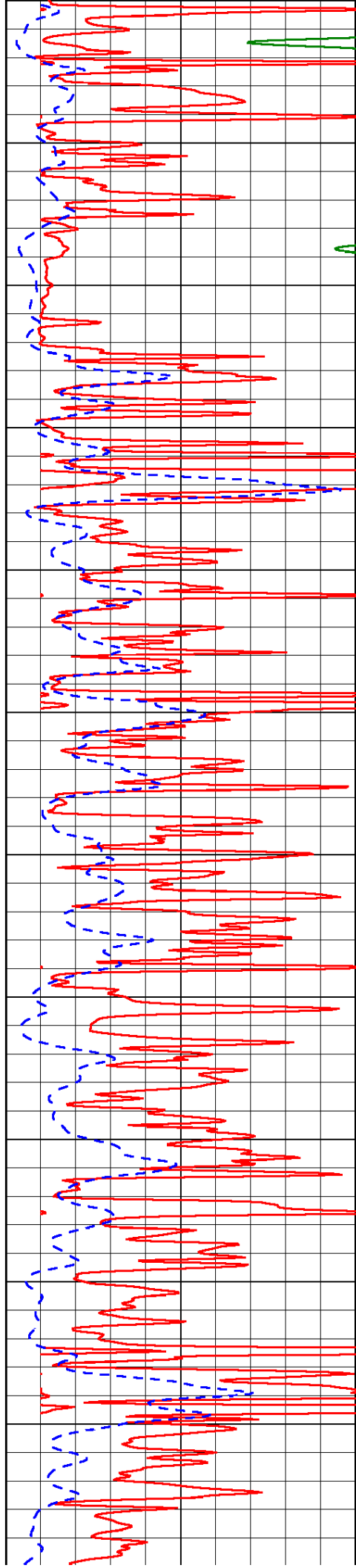


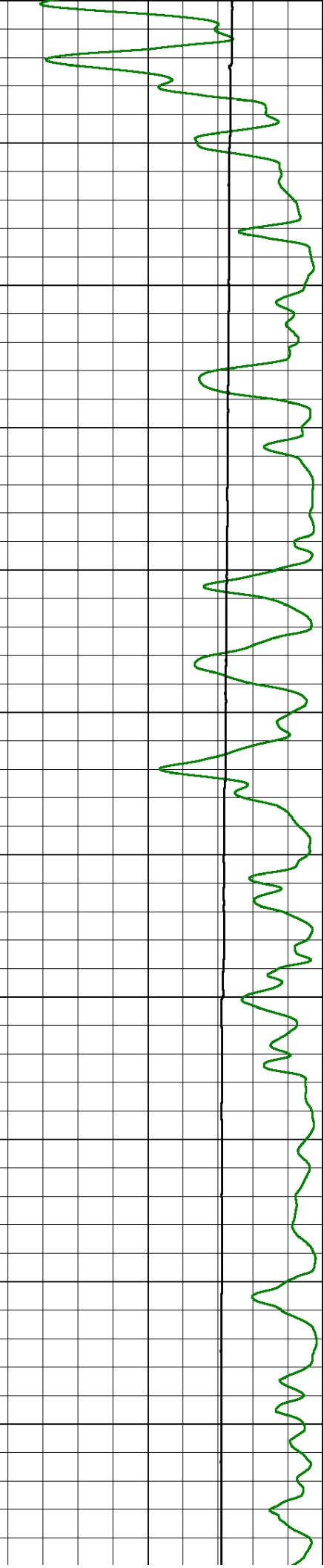
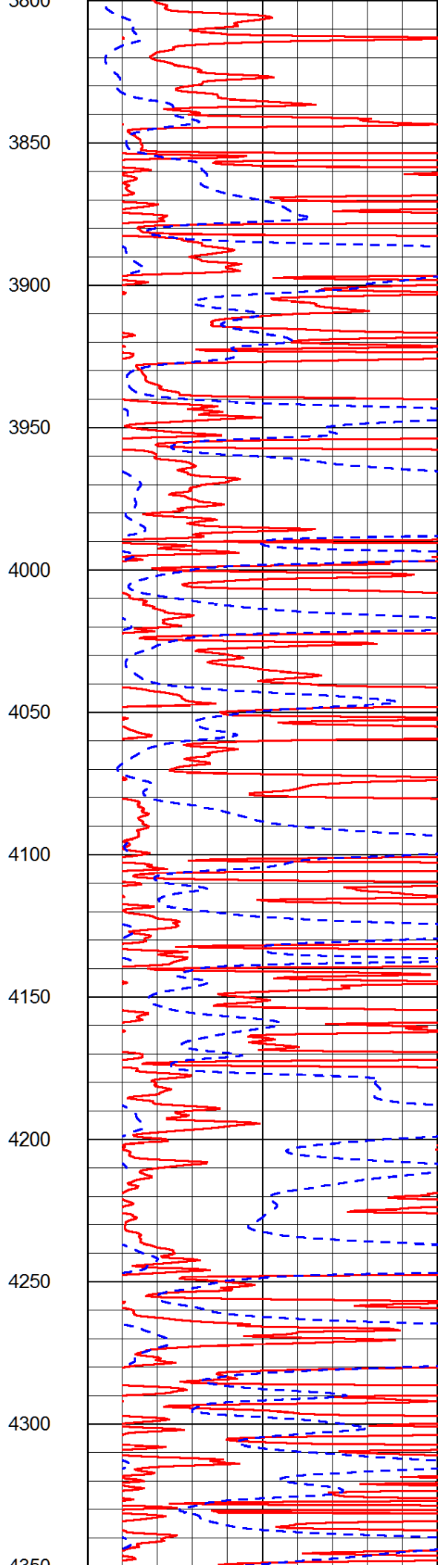
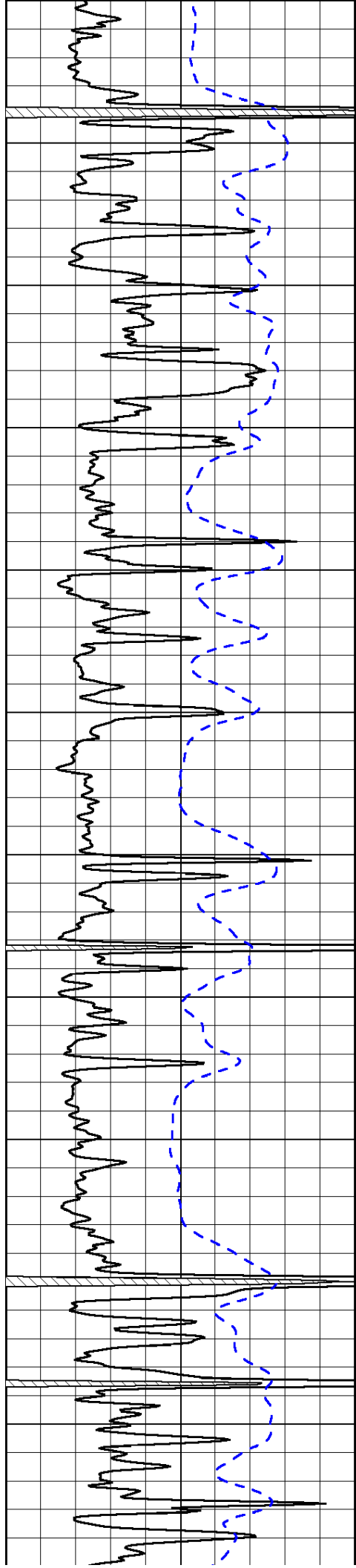
2700
2750
2800
2850
2900
2950
3000
3050
3100
3150
3200
3250

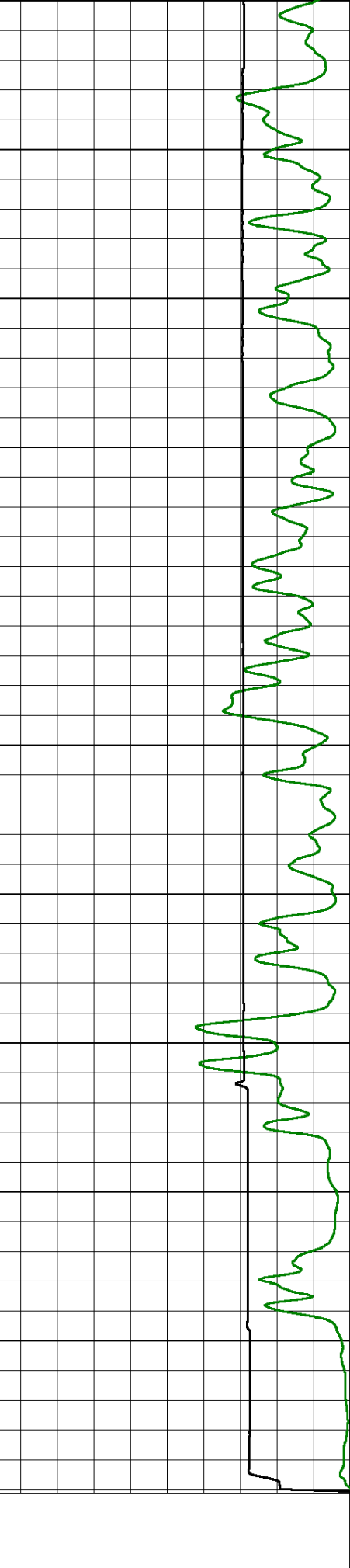
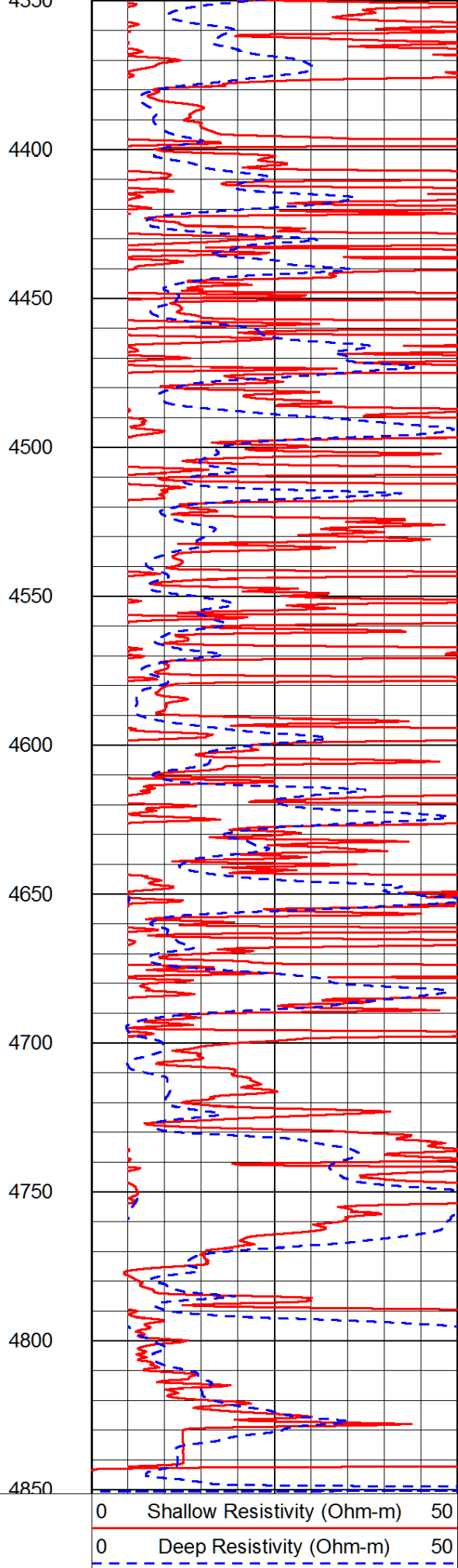
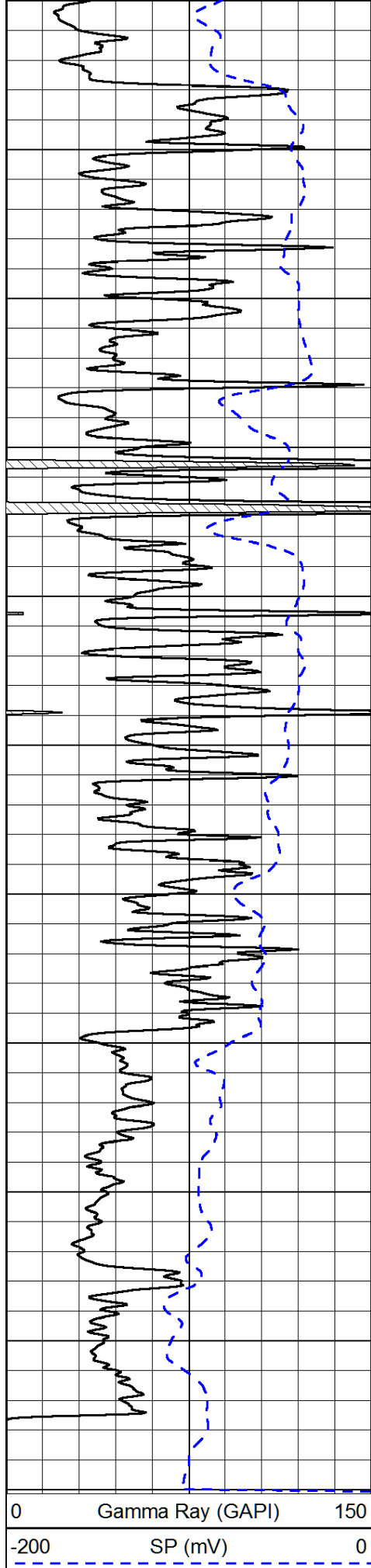




3250
3300
3350
3400
3450
3500
3550
3600
3650
3700
3750
3800







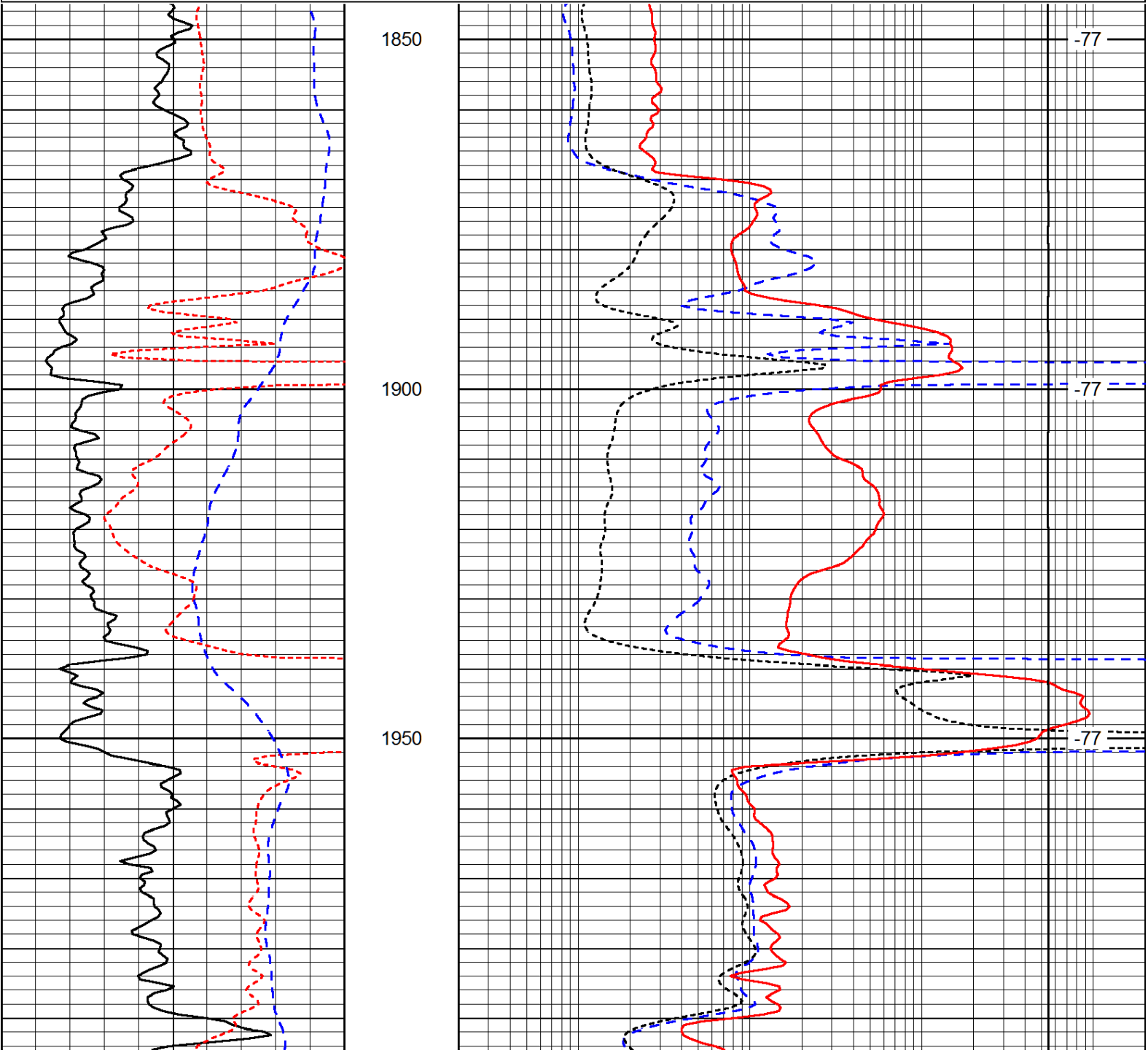
	Shallow Resistivity	
50	(Ohm-m)	500
50	Deep Resistivity (Ohm-m)	500

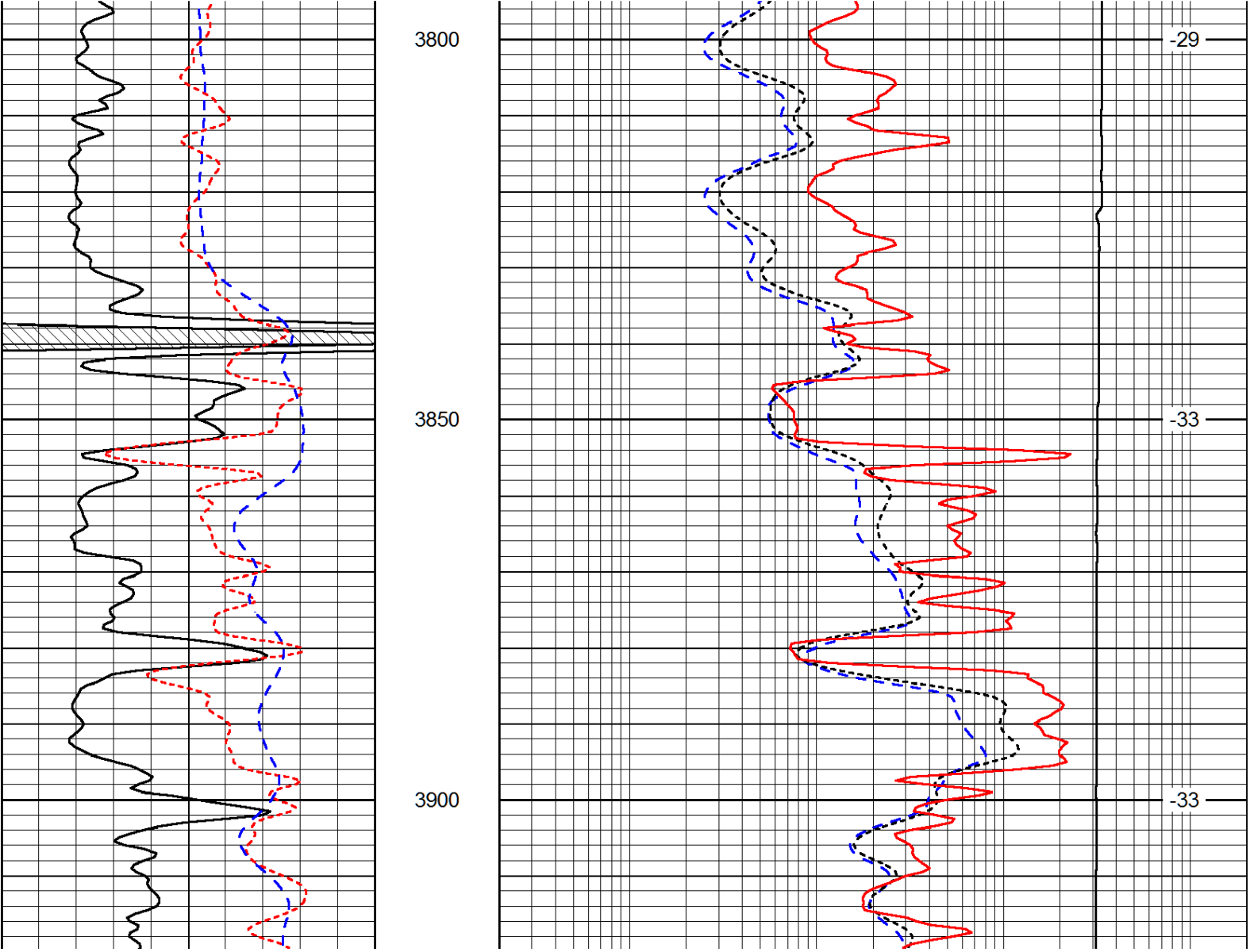
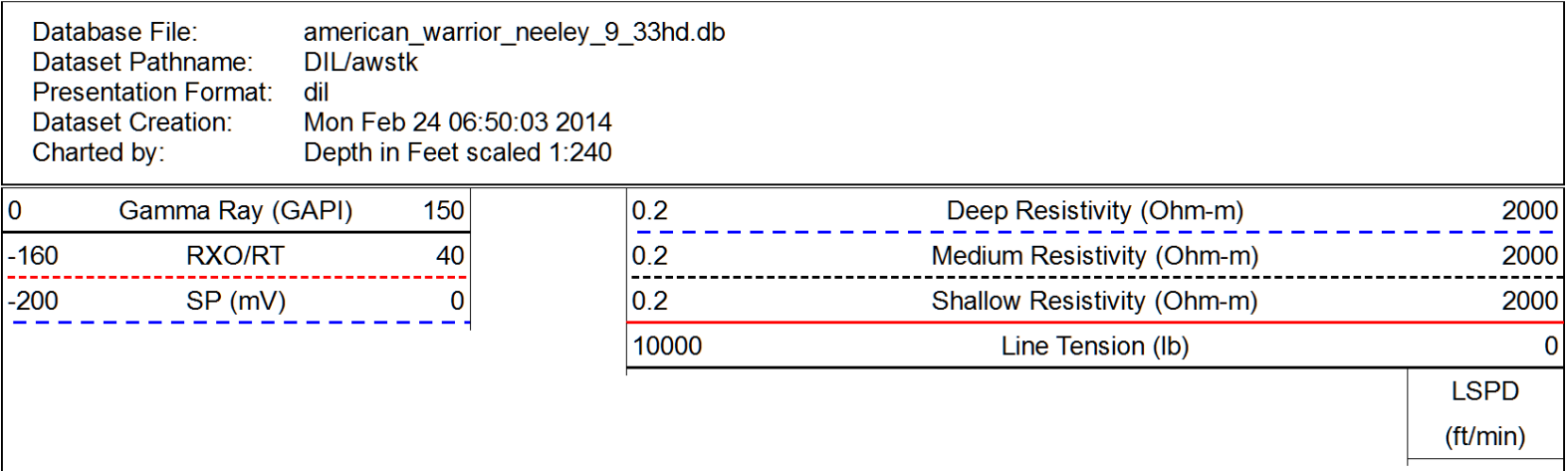
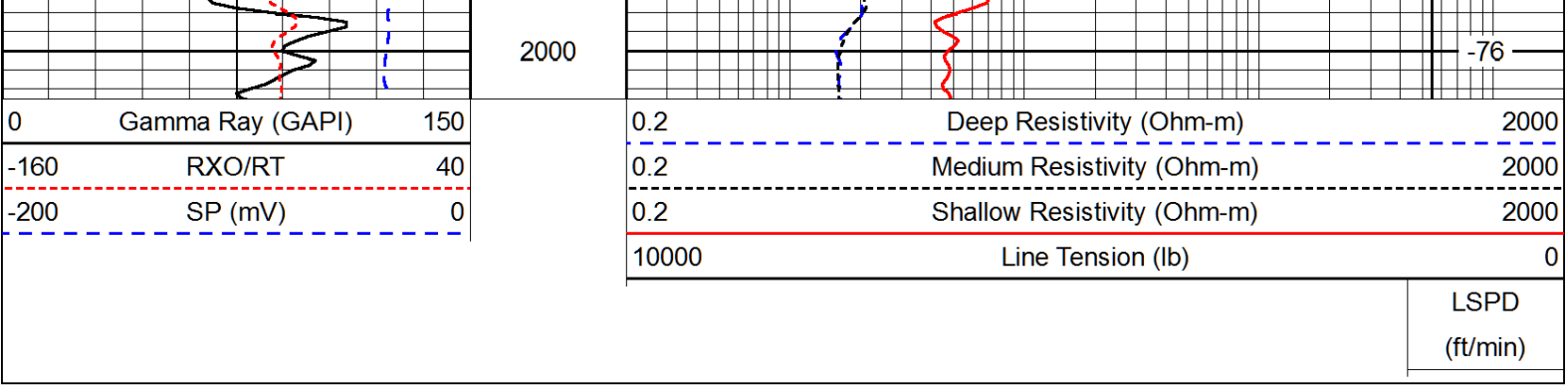
Database File: american_warrior_neeley_9_33hd.db	
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Presentation Format: dil	
Dataset Creation: Mon Feb 24 06:50:03 2014	
Charted by: Depth in Feet scaled 1:240	

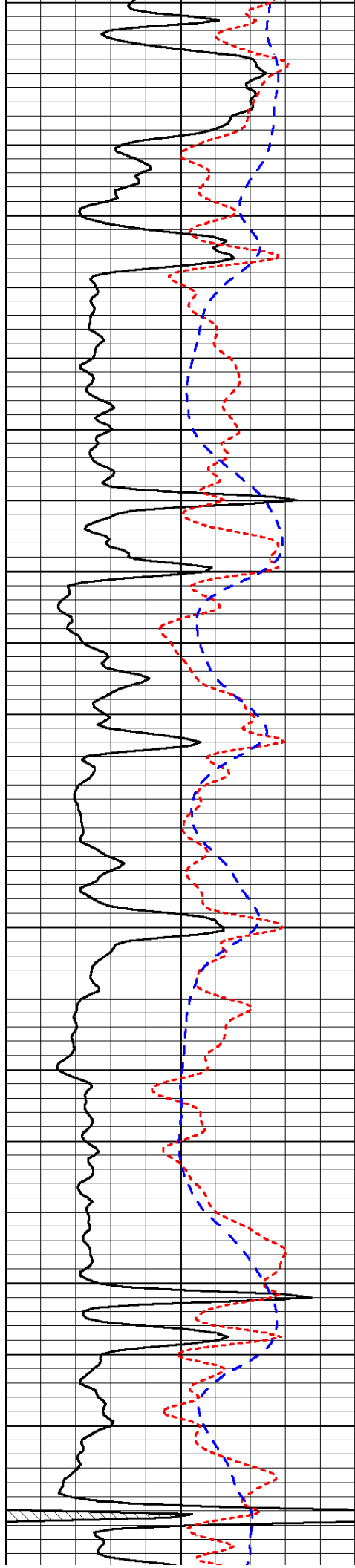
0	Gamma Ray (GAPI)	150
-160	RXO/RT	40
-200	SP (mV)	0

0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000
10000	Line Tension (lb)	0

LSPD
(ft/min)





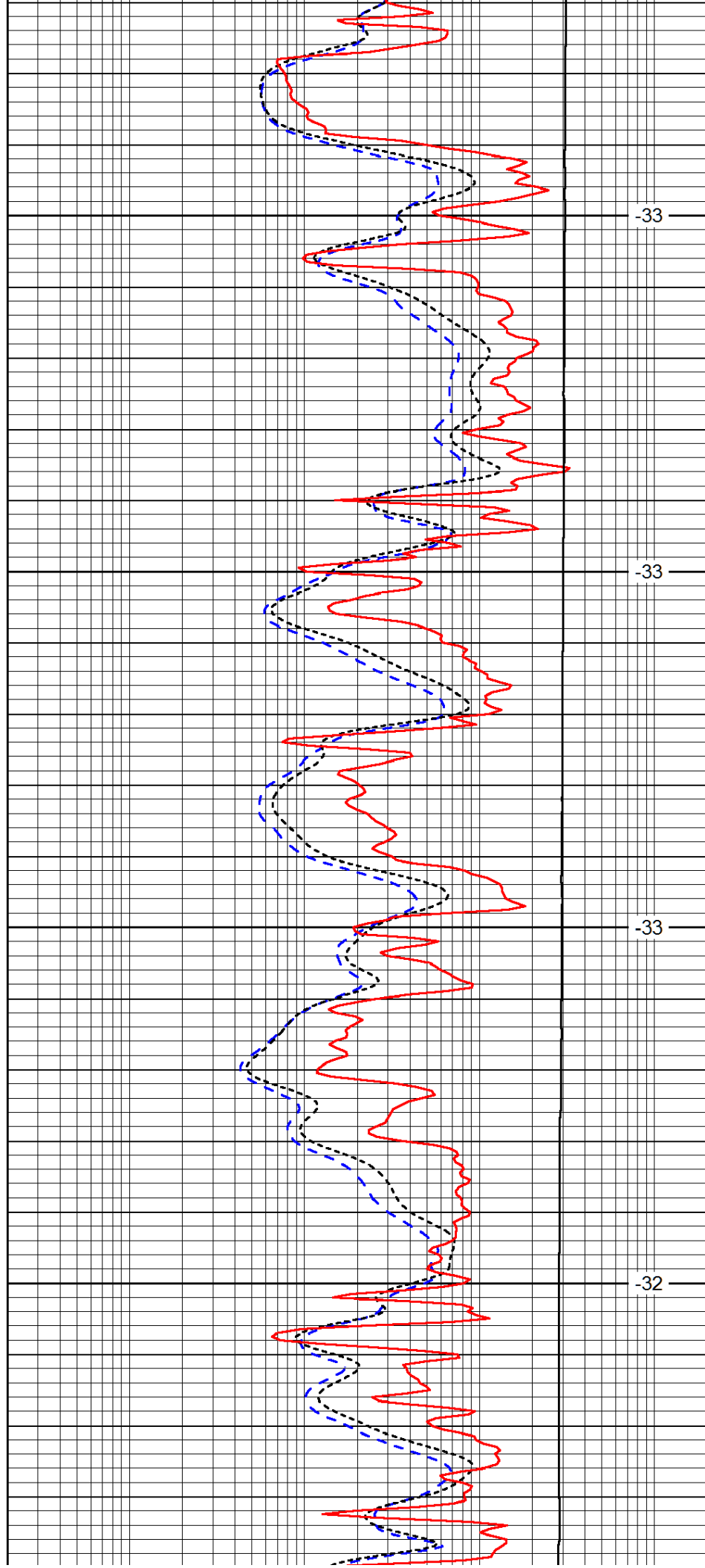


3950

4000

4050

4100

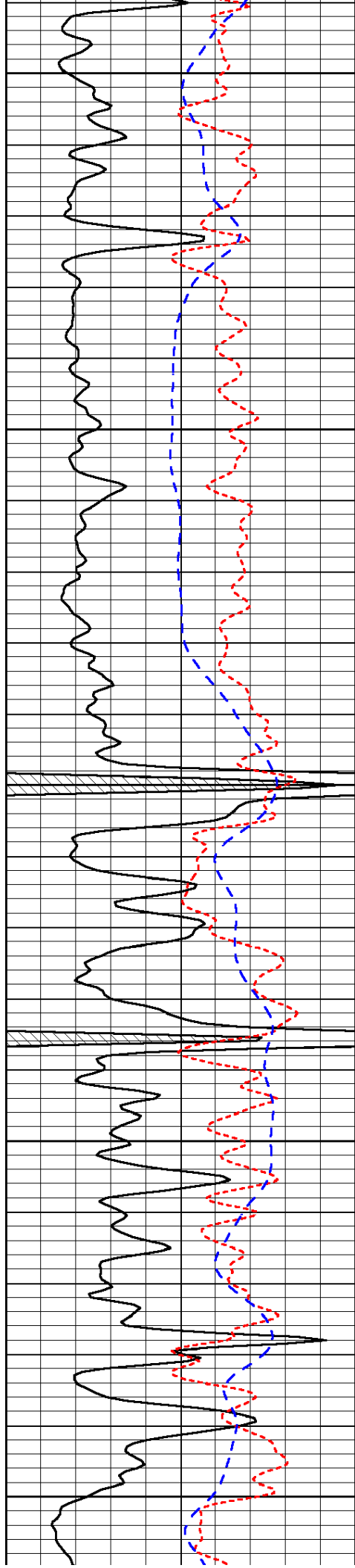


-33

-33

-33

-32



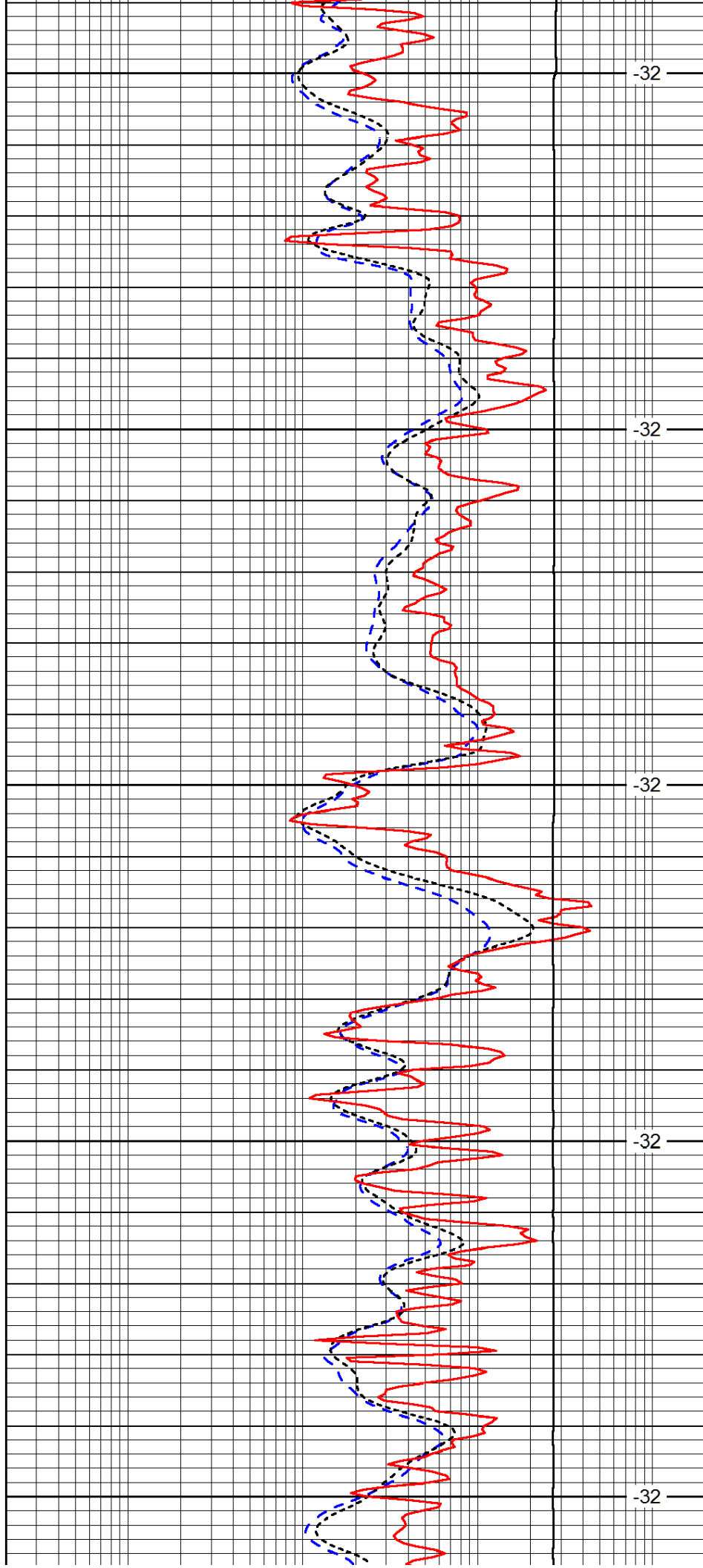
4150

4200

4250

4300

4350



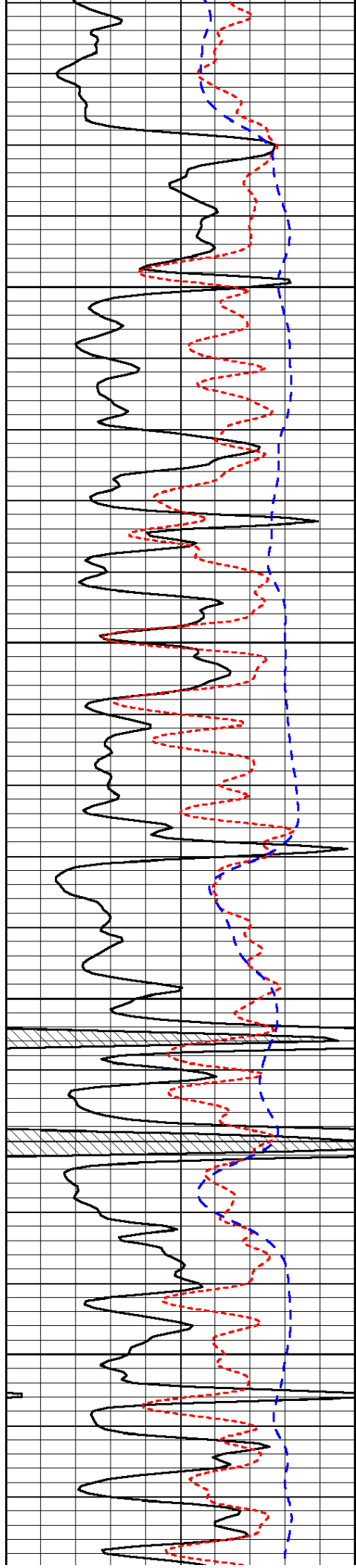
-32

-32

-32

-32

-32

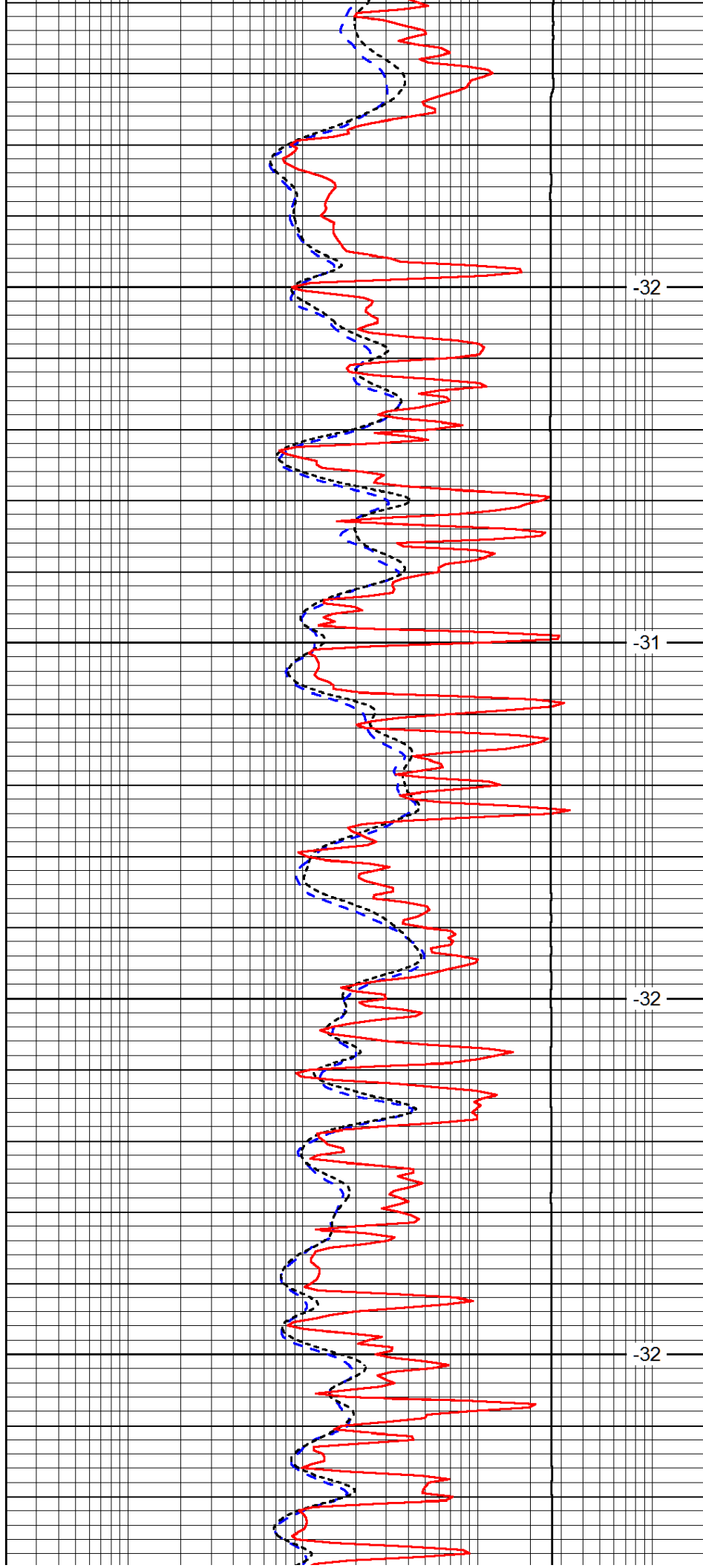


4400

4450

4500

4550

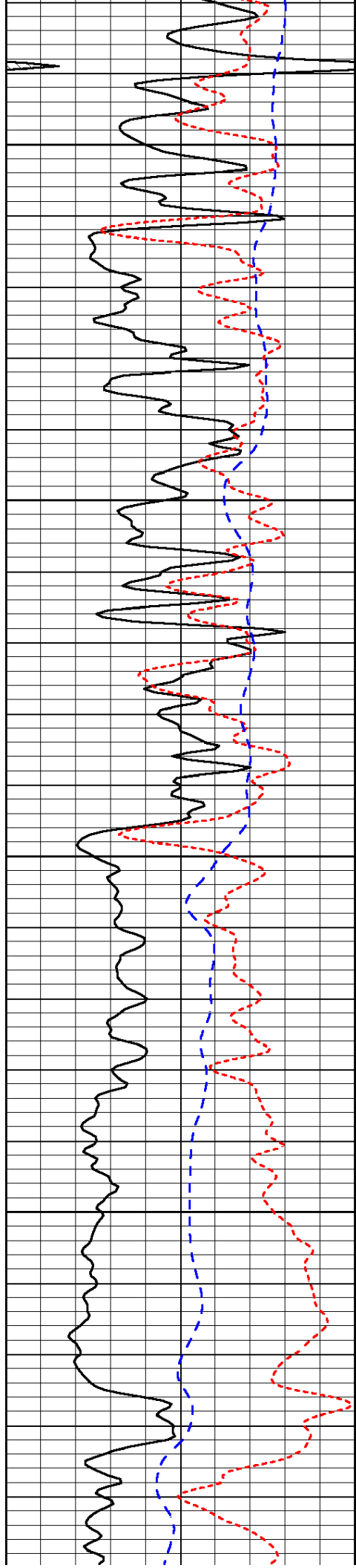


-32

-31

-32

-32



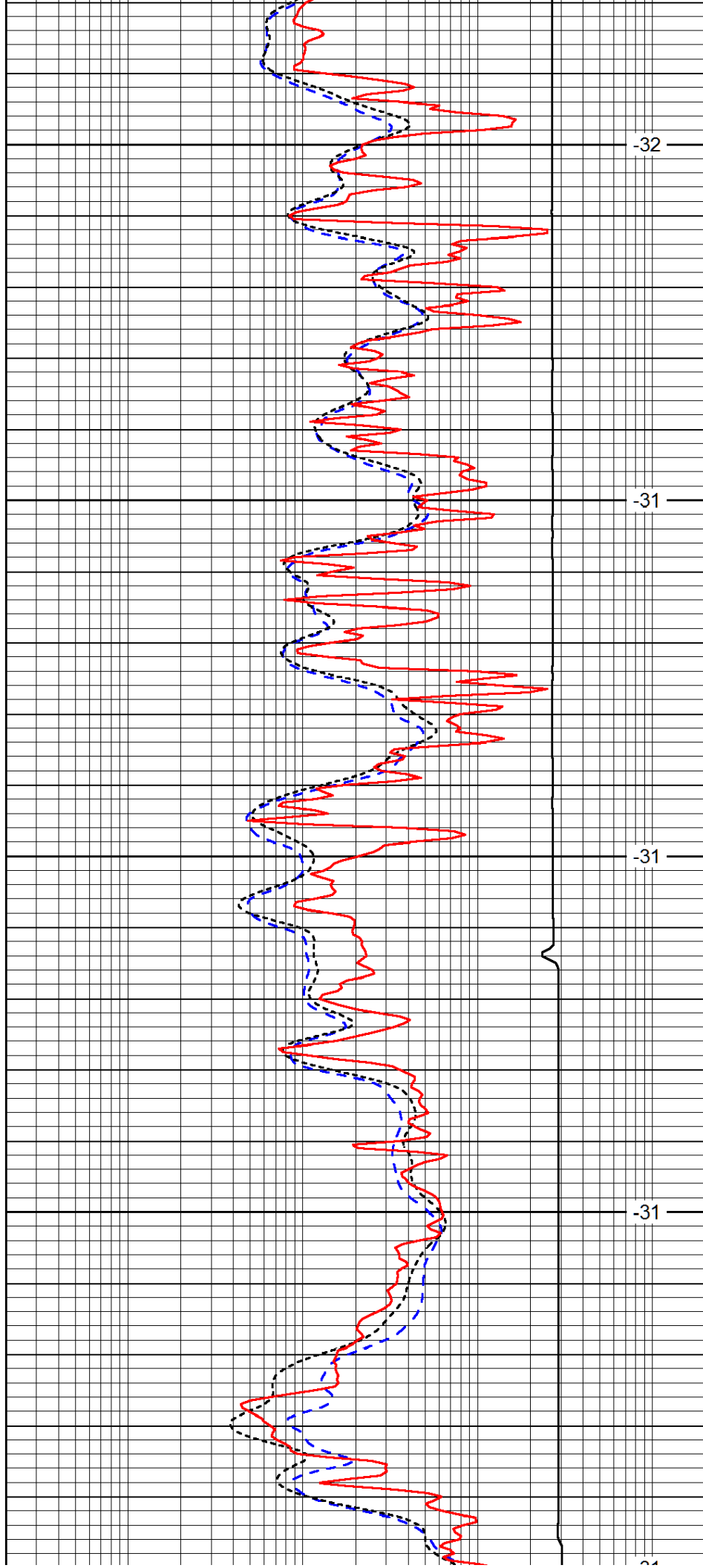
4600

4650

4700

4750

4800



-32

-31

-31

-31

-31

