



Pioneer Energy Services

Dual Induction Log

API No.

15-095-22,281-00-00

Company Novy Oil & Gas, Inc.

Well Ravenstein No. 2

Field Klaver Northeast

County Kingman State Kansas

Location 660' FNL & 1980' FEL

Sec: 15 Twp: 29S Rge: 6W

Permanent Datum Ground Level Elevation 1521
Log Measured From Kelly Bushing 10 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Other Services
CNL/CDL
MEL

Elevation
K.B. 1531
D.F. 1521
G.L. 1521

Date

3/30/14

Run Number

One

Depth Driller

4590

Depth Logger

4592

Bottom Logged Interval

4591

Top Log Interval

250

Casing Driller

8.625 @ 264

Casing Logger

263

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

4,000

Density / Viscosity

9.3 68

pH / Fluid Loss

8.0 8.6

Source of Sample

Flowline

Rm @ Meas. Temp

.60 @ 72

Rmf @ Meas. Temp

.45 @ 72

Rmc @ Meas. Temp

.81 @ 72

Source of Rmf / Rmc

Charts

Rm @ BHT

.35 @ 122

Operating Rig Time

4 Hours

Max Rec. Temp. F

122

Equipment Number

108

Location

Hays

Recorded By

J. Henrickson

Witnessed By

Harley Sayles

<<< Fold Here >>>

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

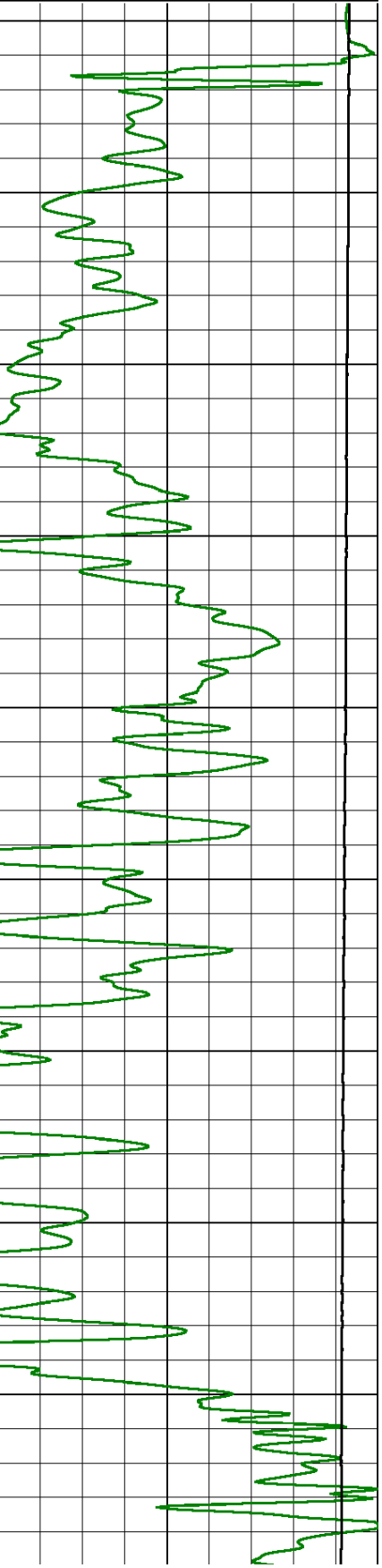
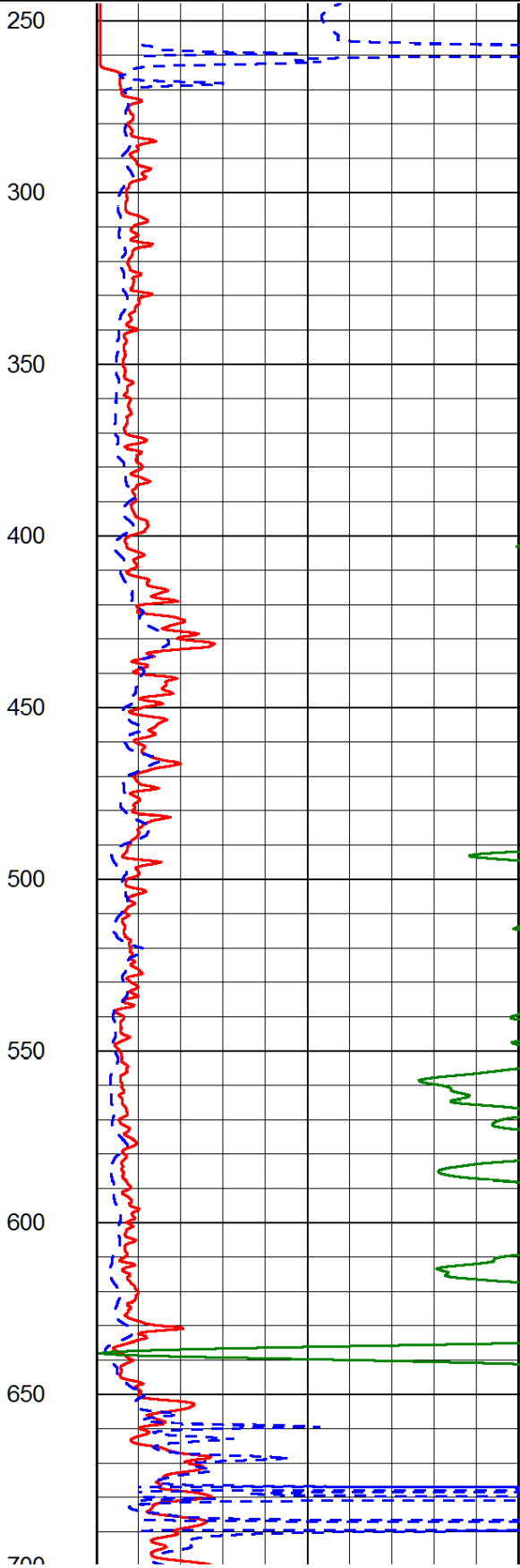
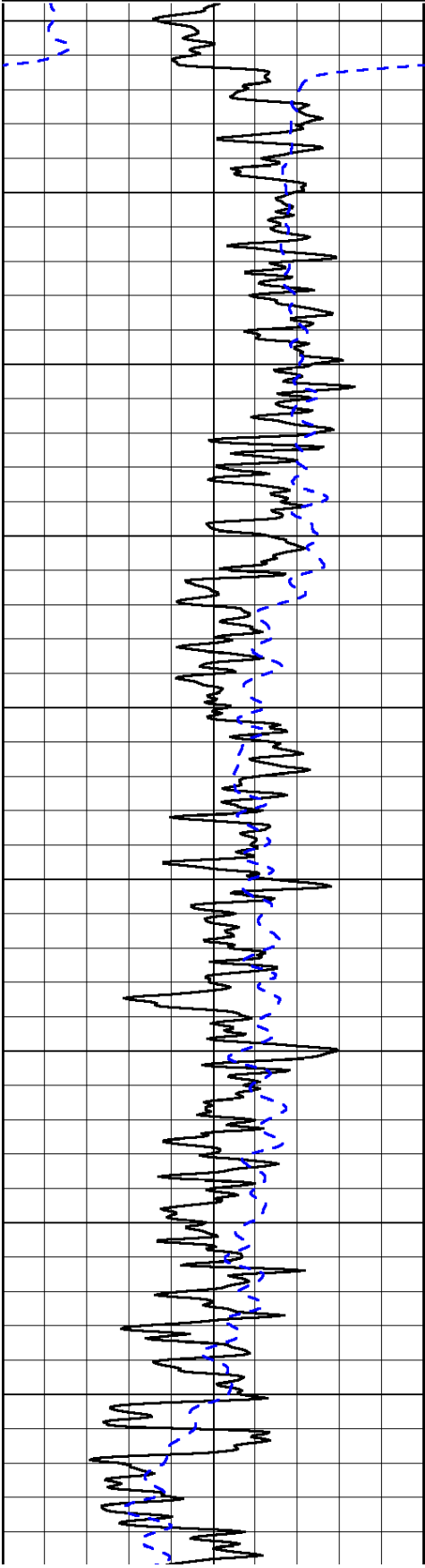
Thank you for using Log-Tech, Inc.
(785) 625-3858

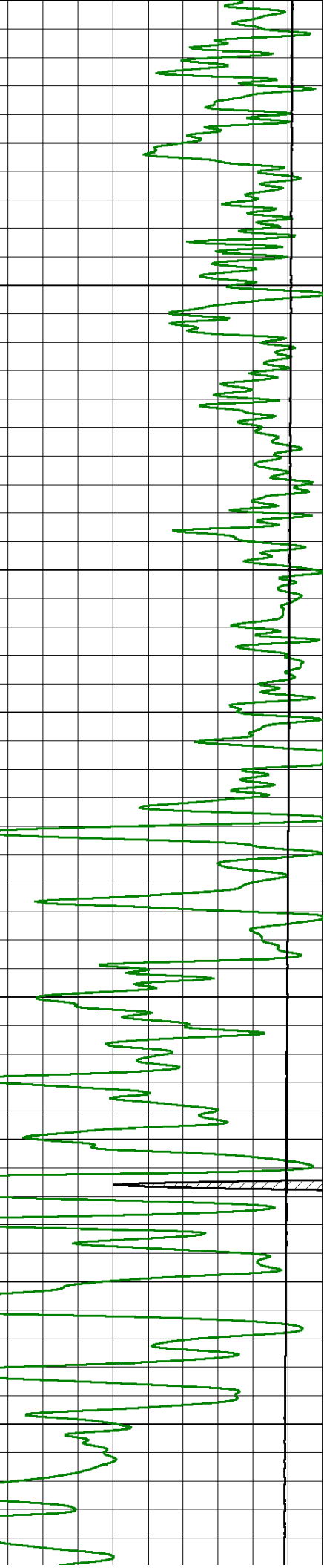
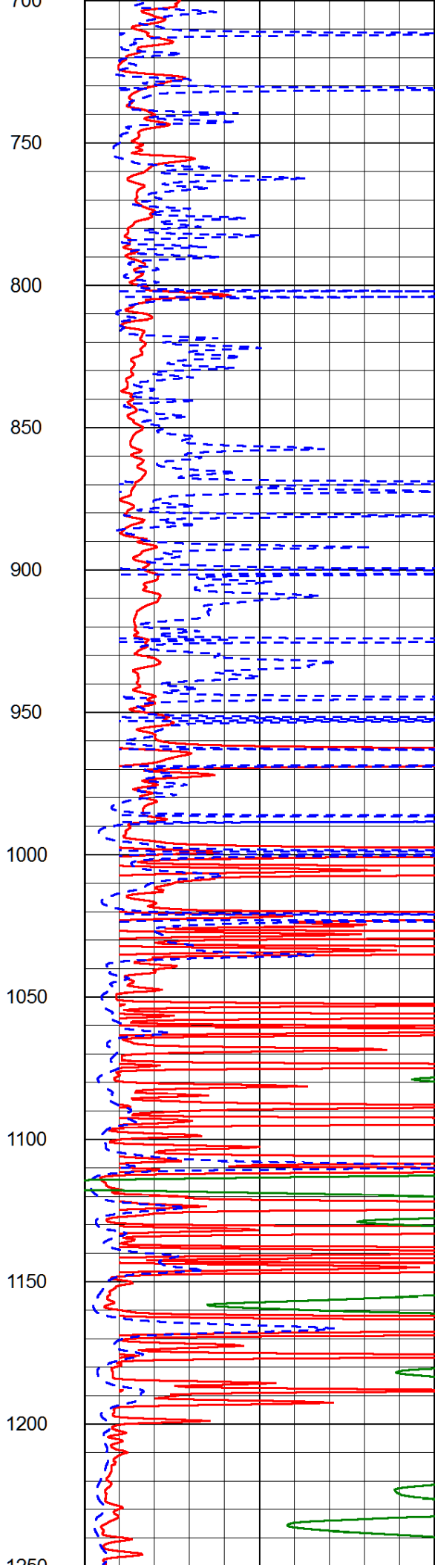
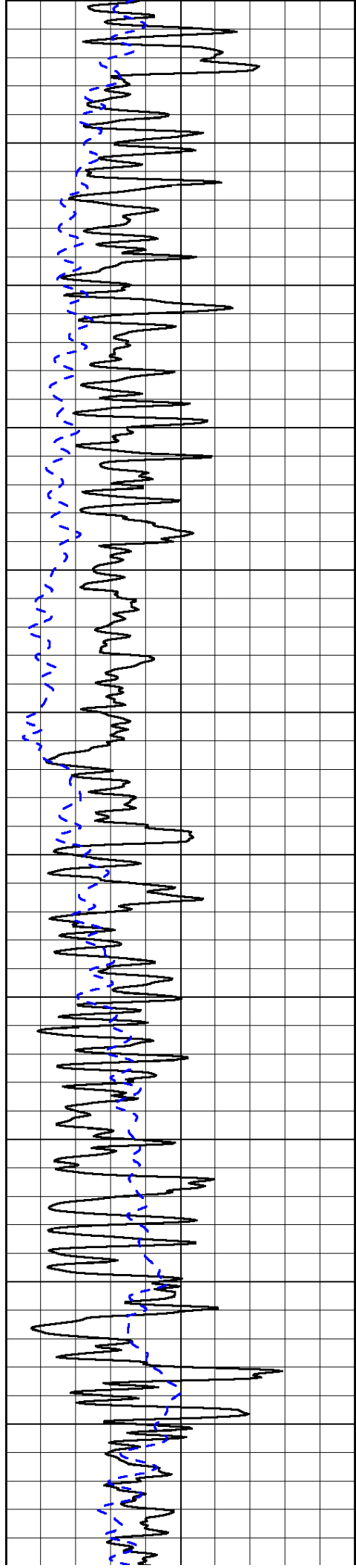
Kingman Kansas
East to 100 Rd, 9 1/2 South, 1 1/2 West, South Into

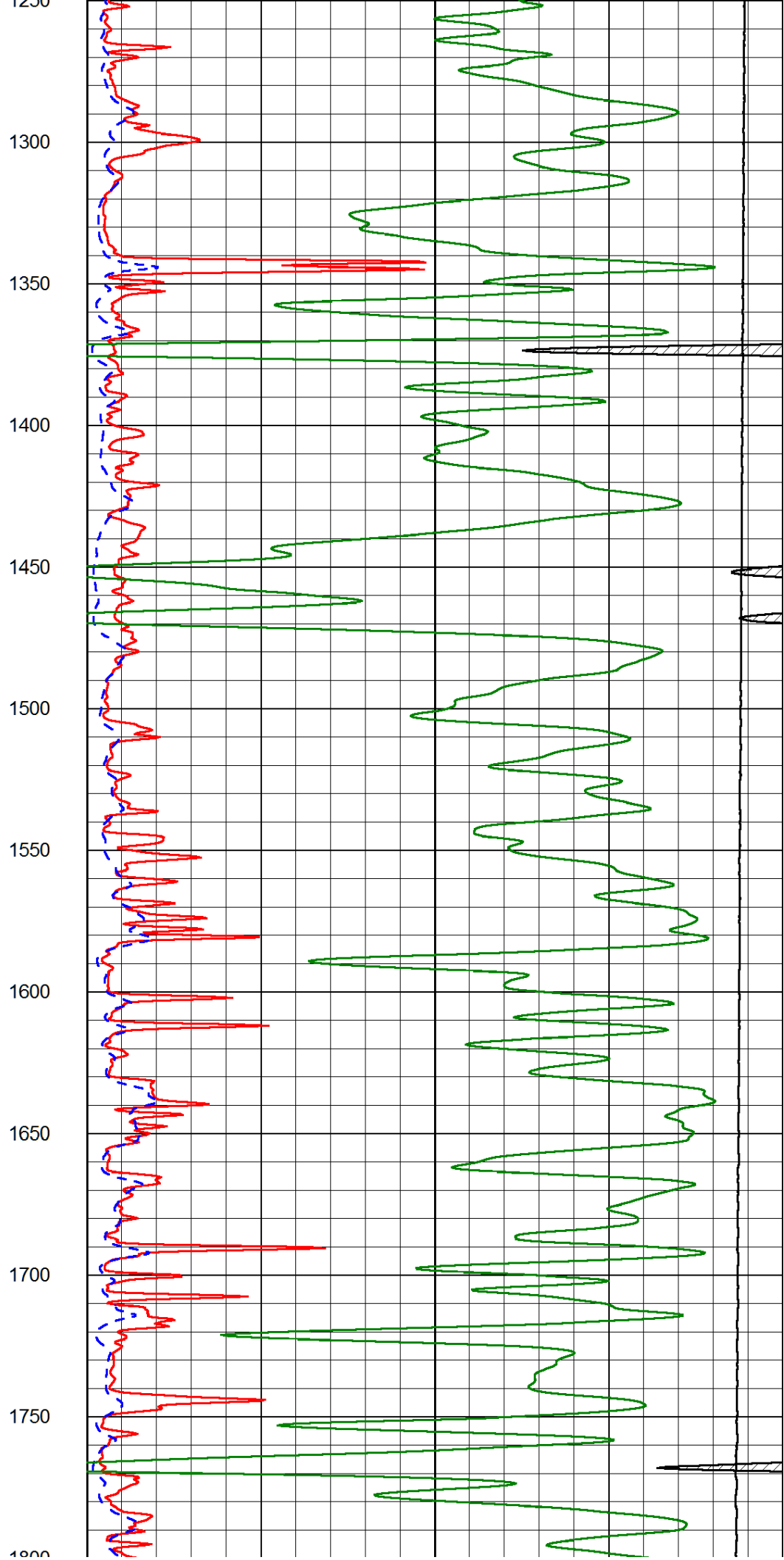
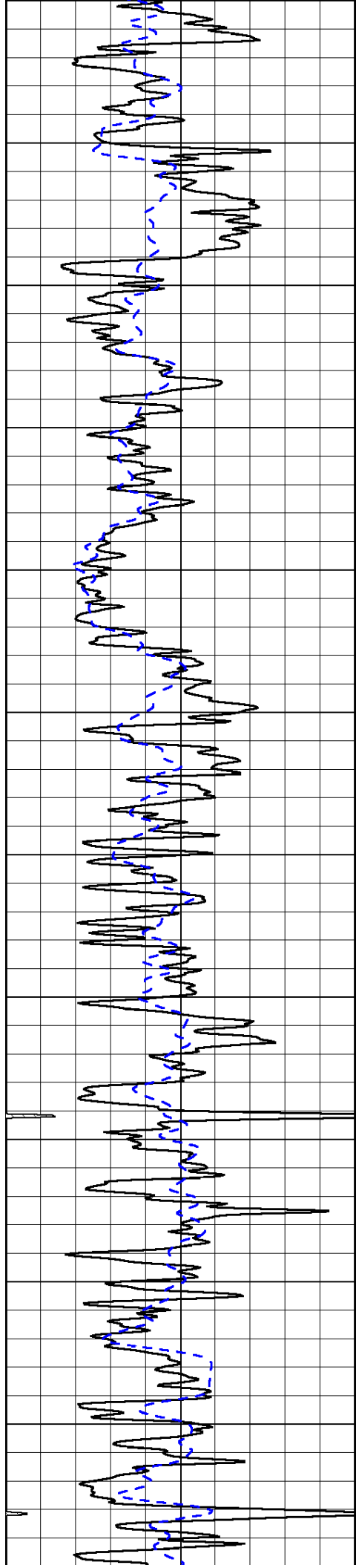
Database File: novy_ravenstein_2hd.db
Dataset Pathname: DIL/novystk
Presentation Format: dil2in
Dataset Creation: Sun Mar 30 13:50:59 2014
Charted by: Depth in Feet scaled 1:600

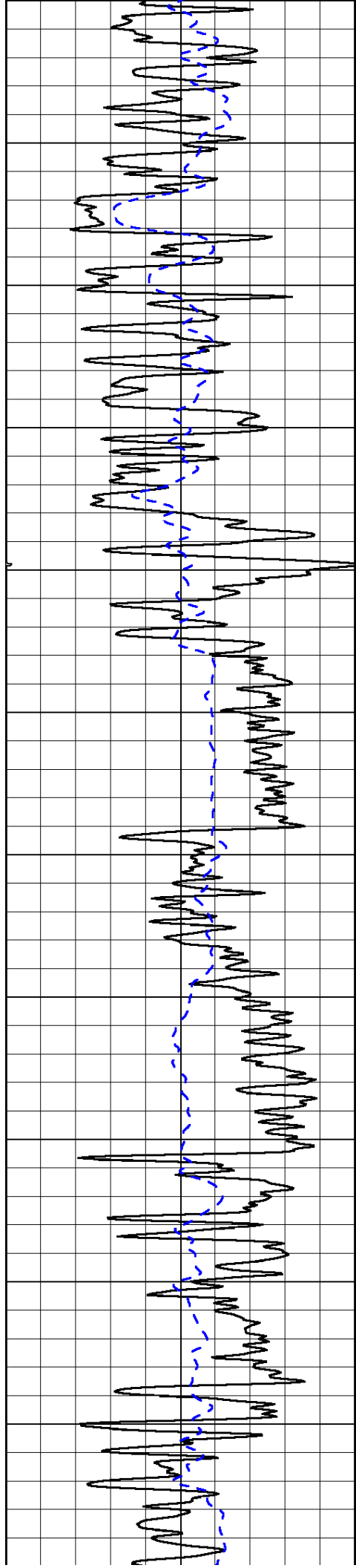
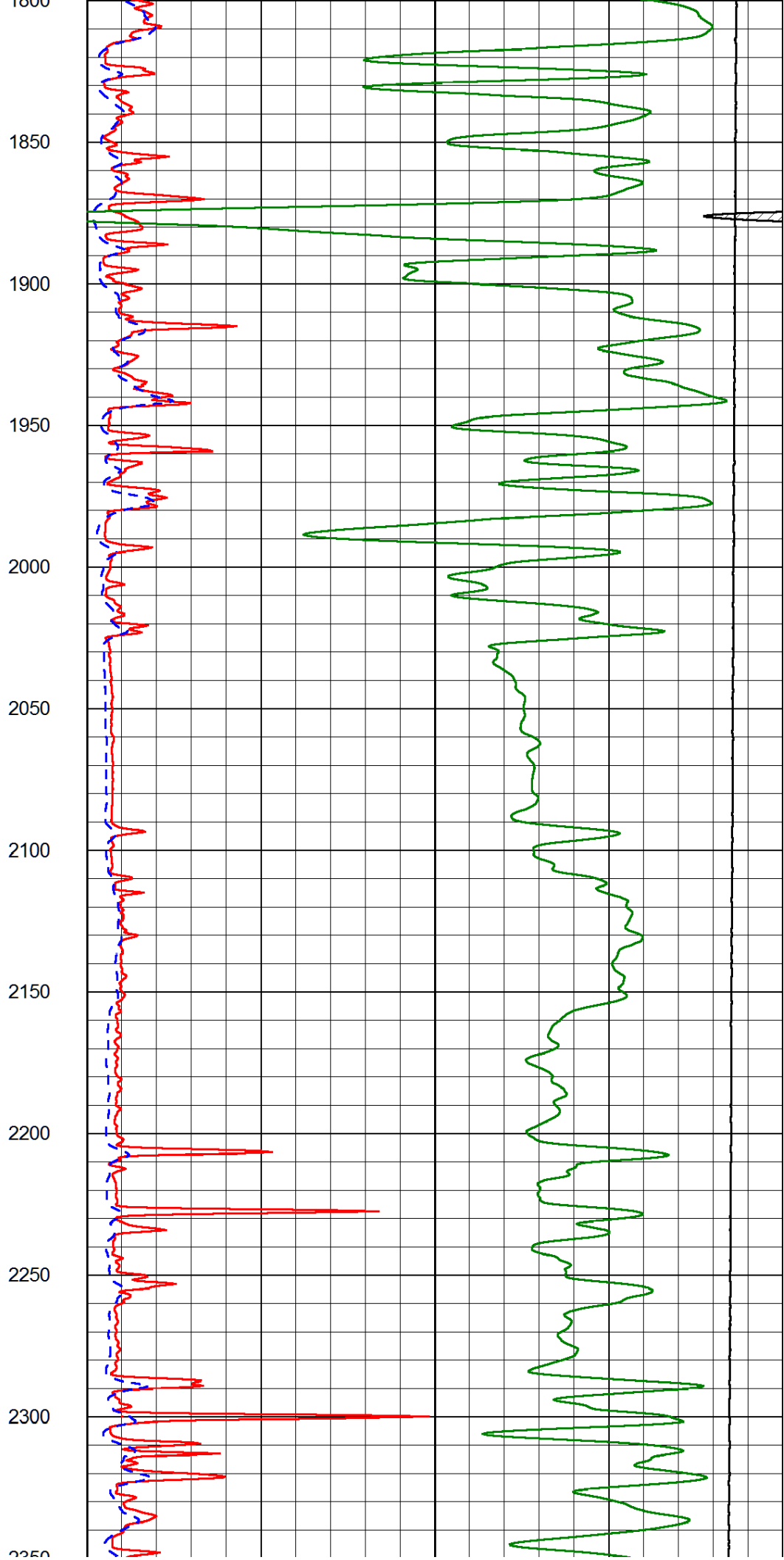
0	Gamma Ray (GAPI)	150
-200	SP (mV)	0

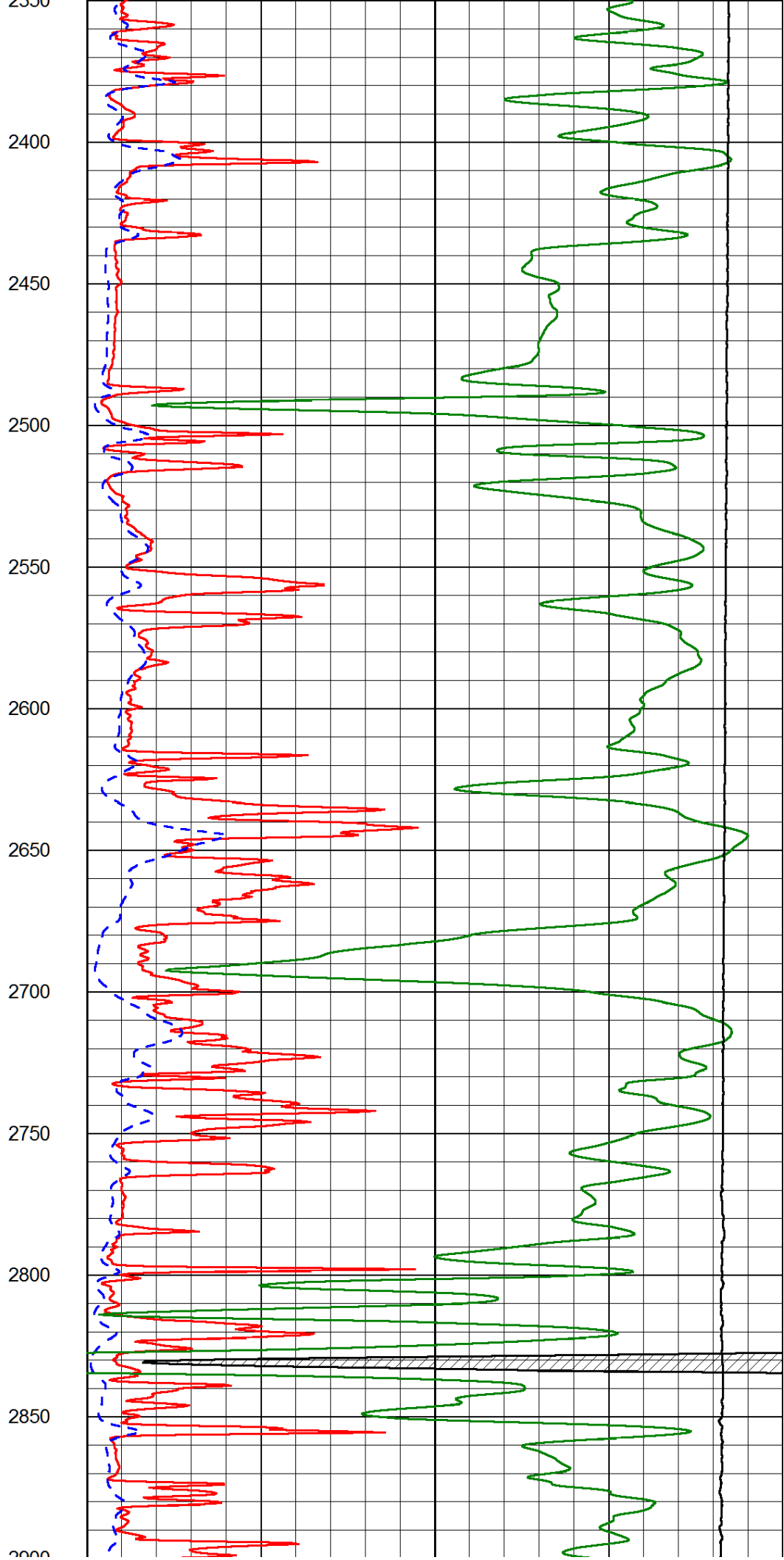
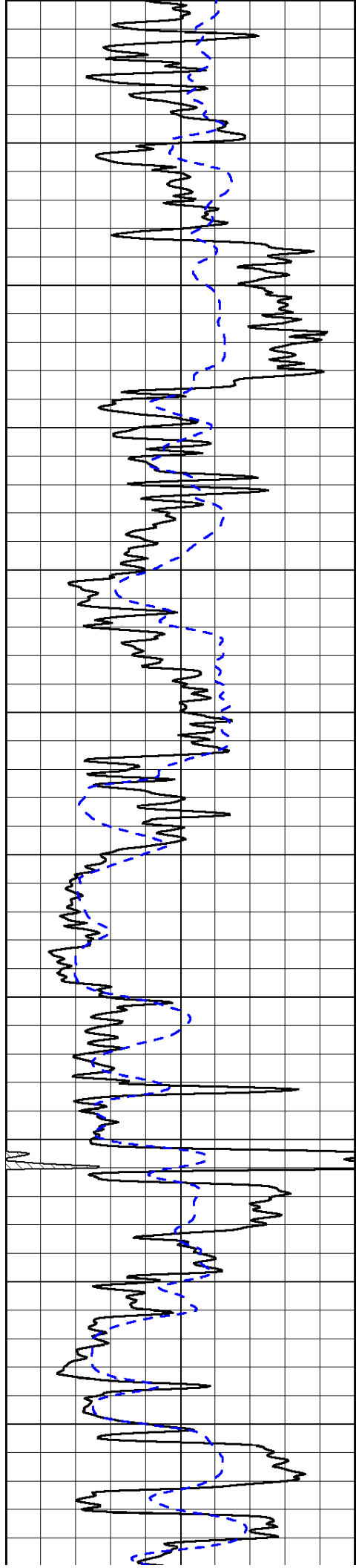
0	Shallow Resistivity (Ohm-m)	50
0	Deep Resistivity (Ohm-m)	50
1000	Conductivity (Ohm-m)	0
15000	Line Tension (lb)	0
	Shallow Resistivity	
50	(Ohm-m)	500
50	Deep Resistivity (Ohm-m)	500

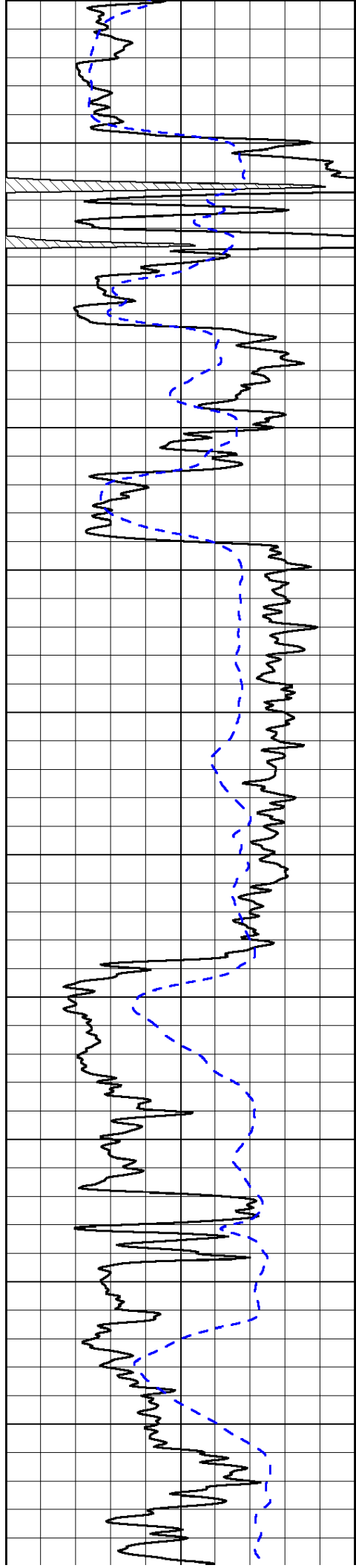




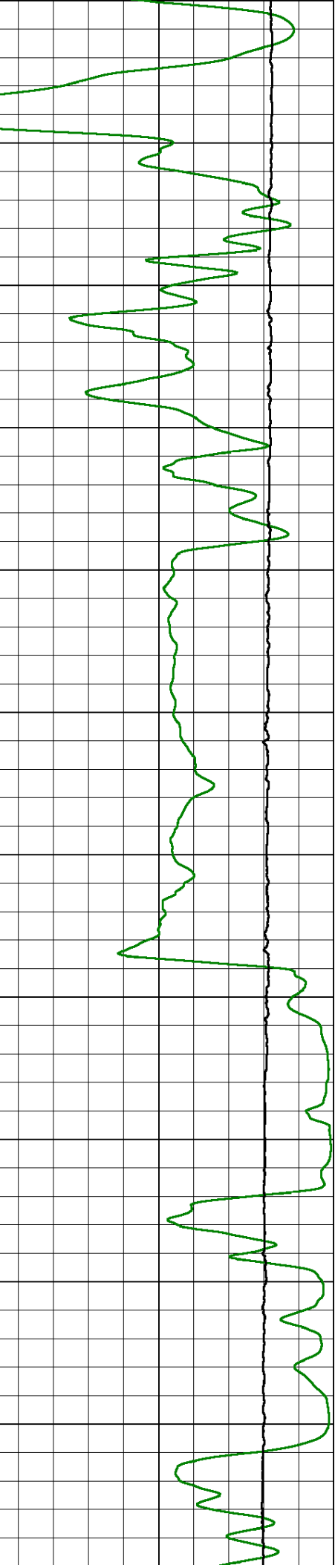
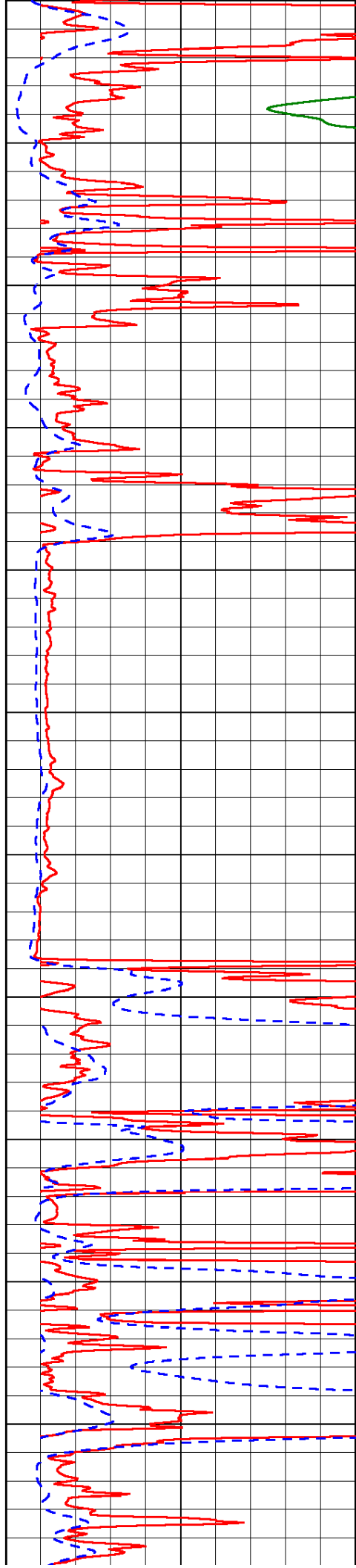


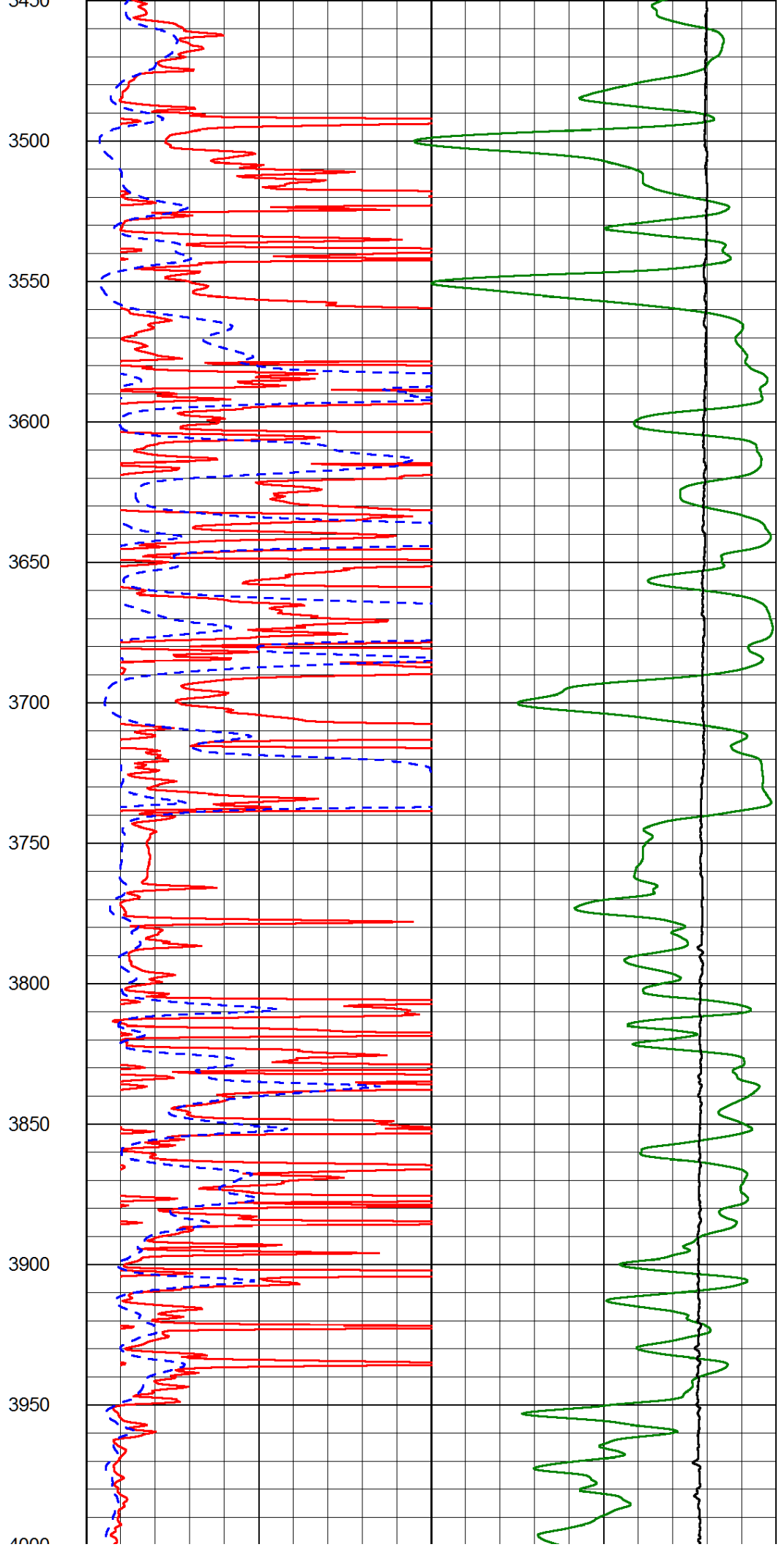
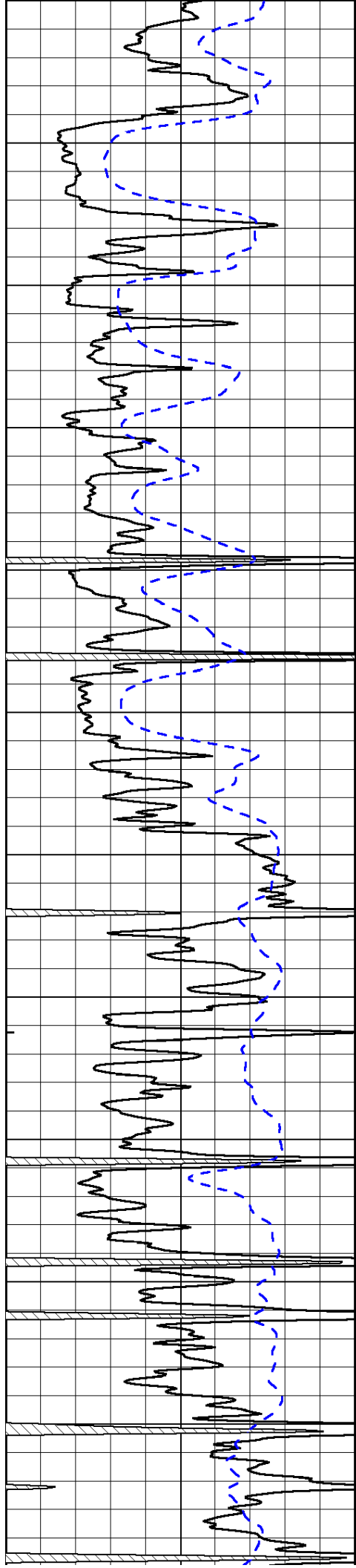


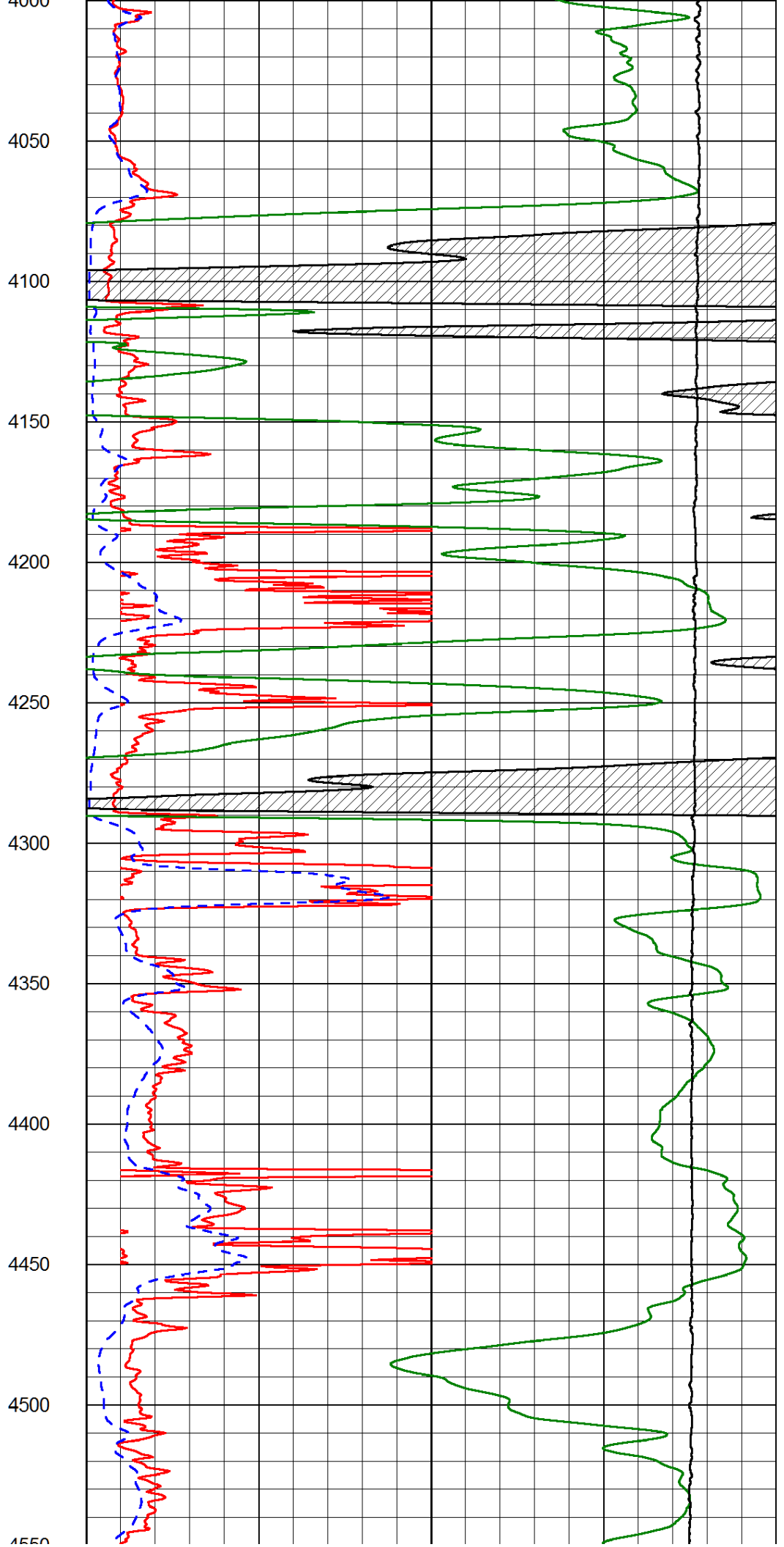
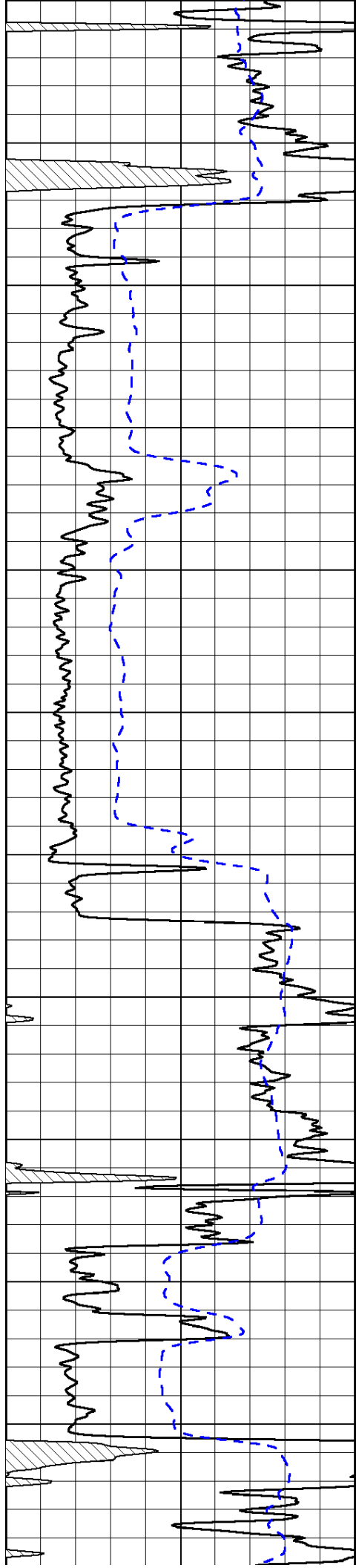


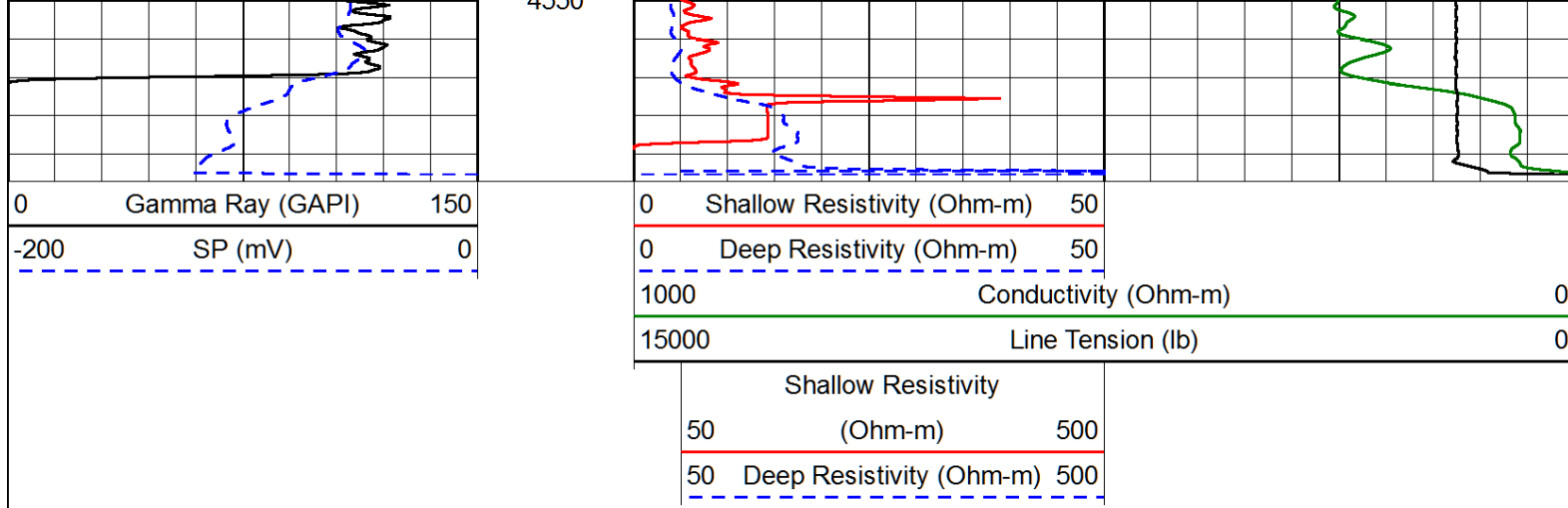


2900
2950
3000
3050
3100
3150
3200
3250
3300
3350
3400
3450

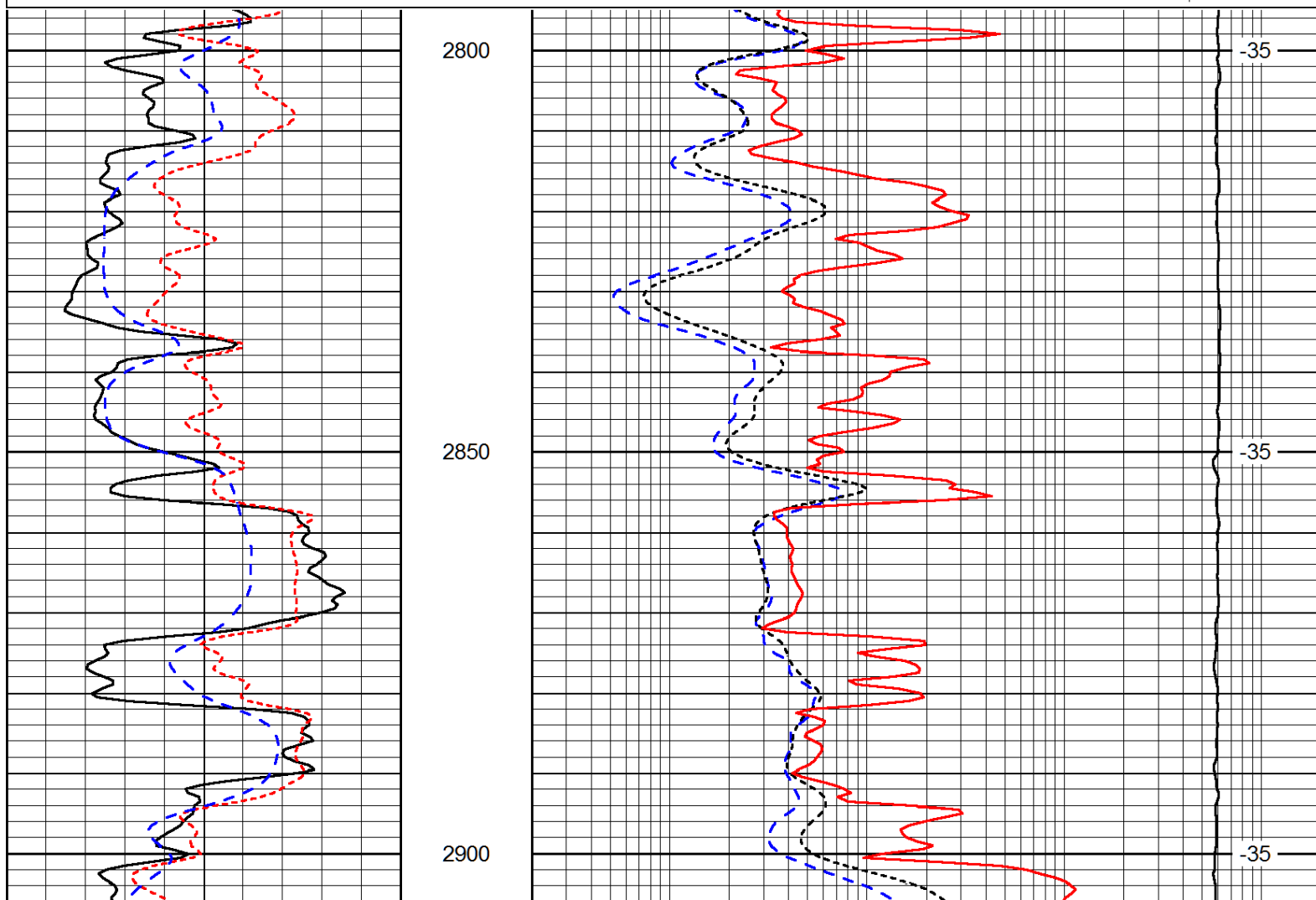
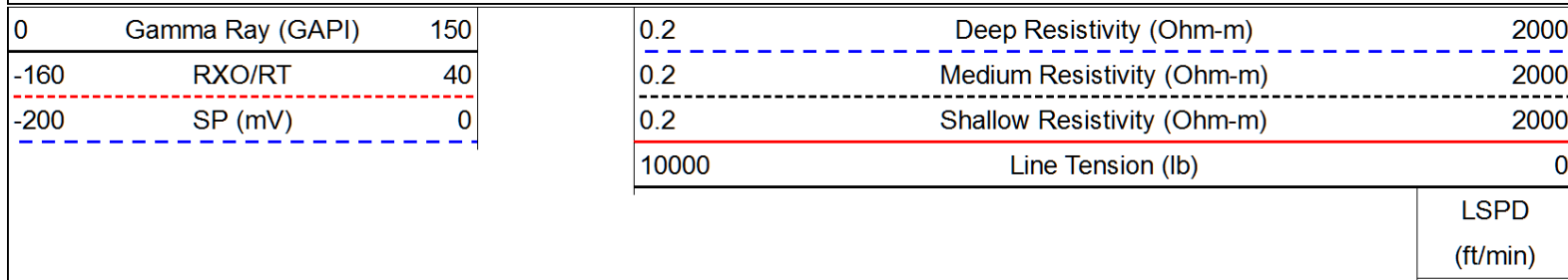


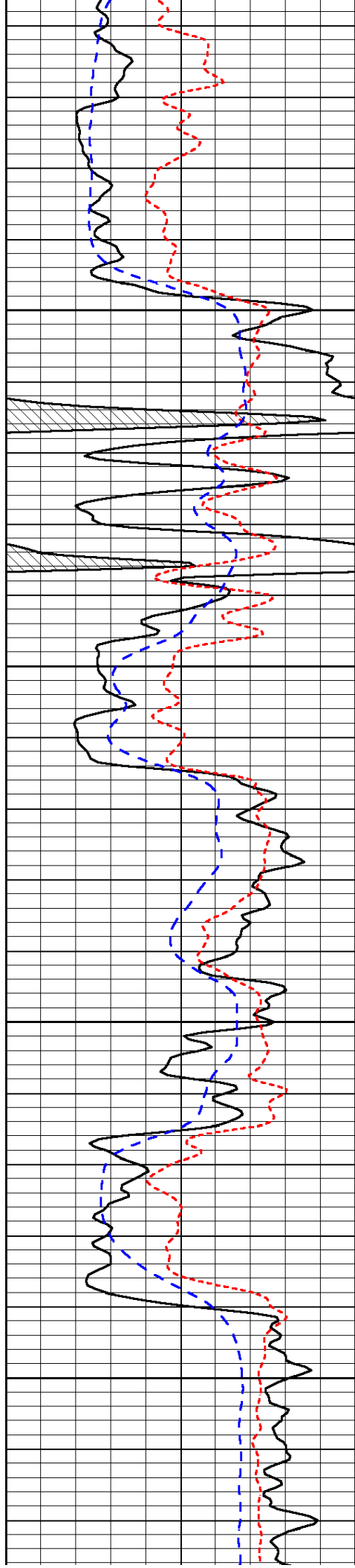






Database File: novy_ravenstein_2hd.db
 Dataset Pathname: DIL/novystk
 Presentation Format: dil
 Dataset Creation: Sun Mar 30 13:50:59 2014
 Charted by: Depth in Feet scaled 1:240



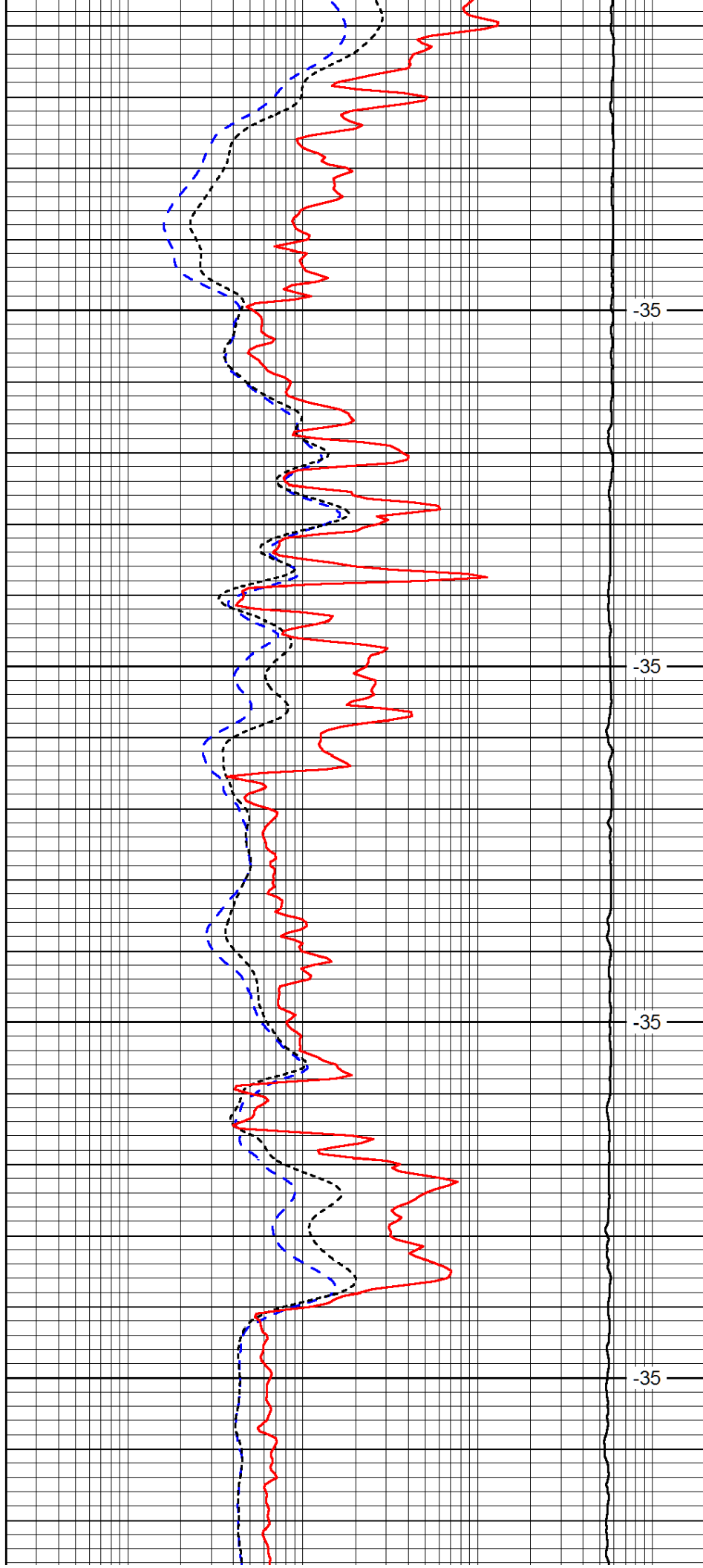


2950

3000

3050

3100

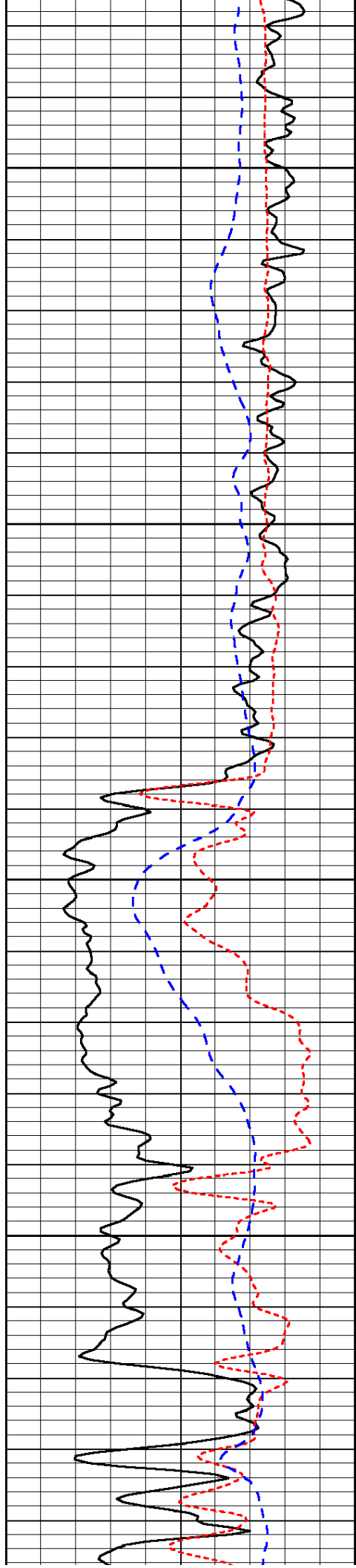


-35

-35

-35

-35

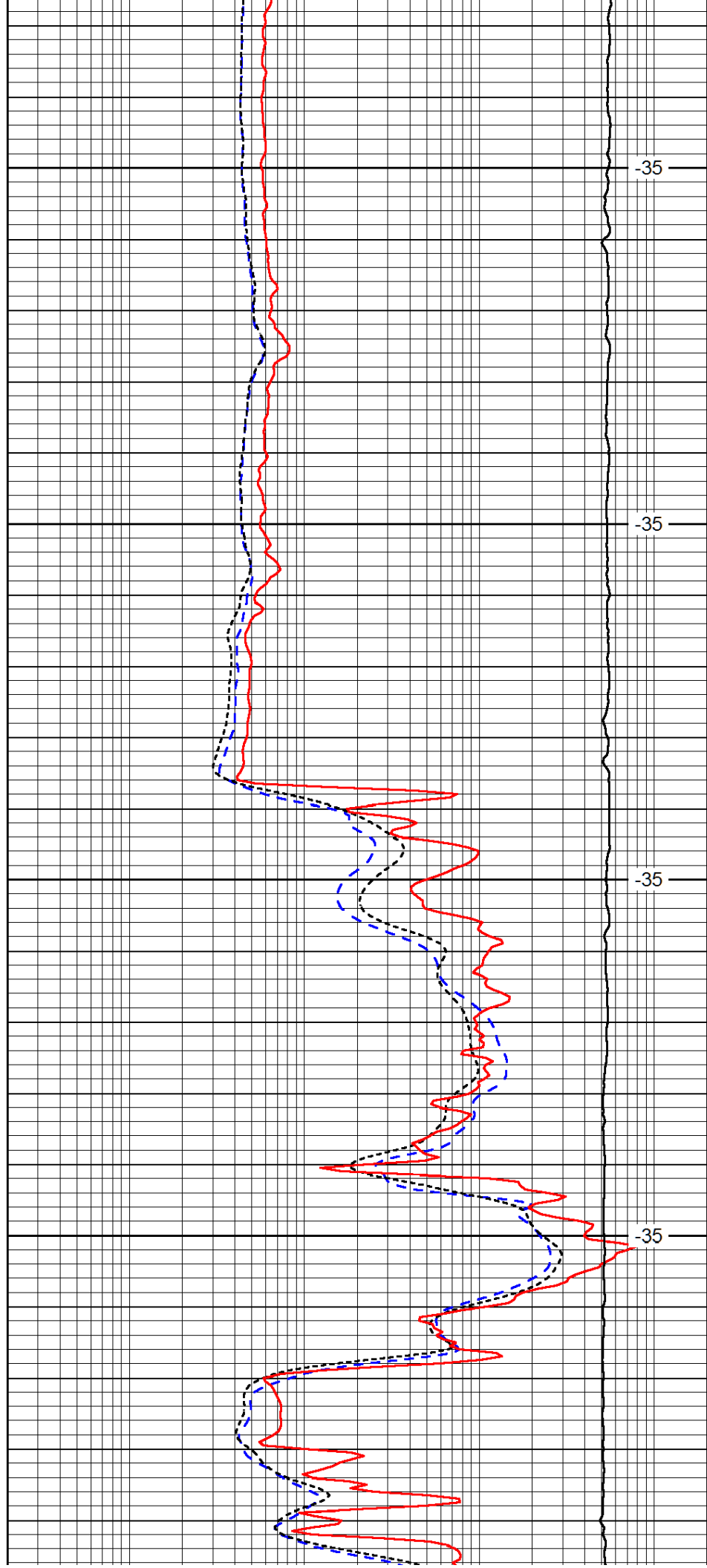


3150

3200

3250

3300

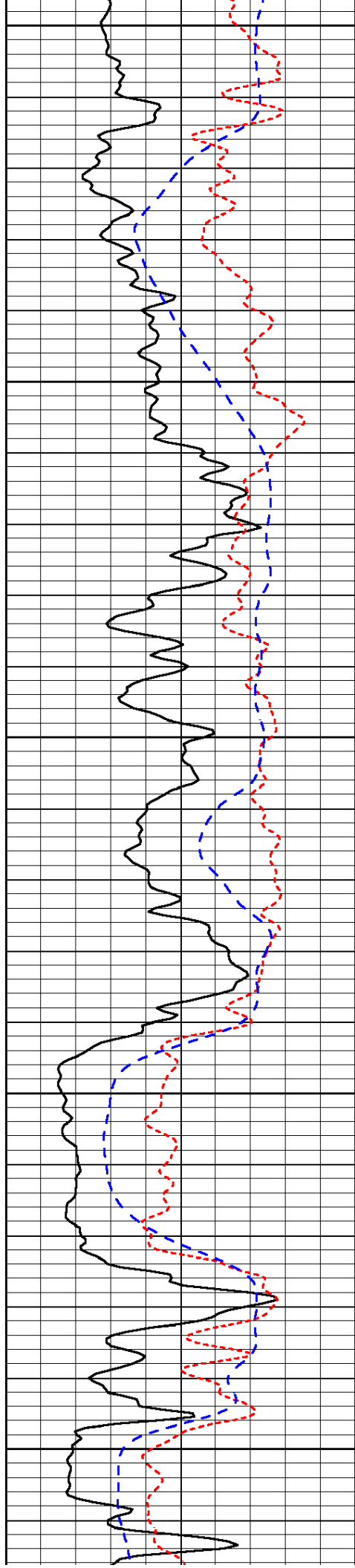


-35

-35

-35

-35



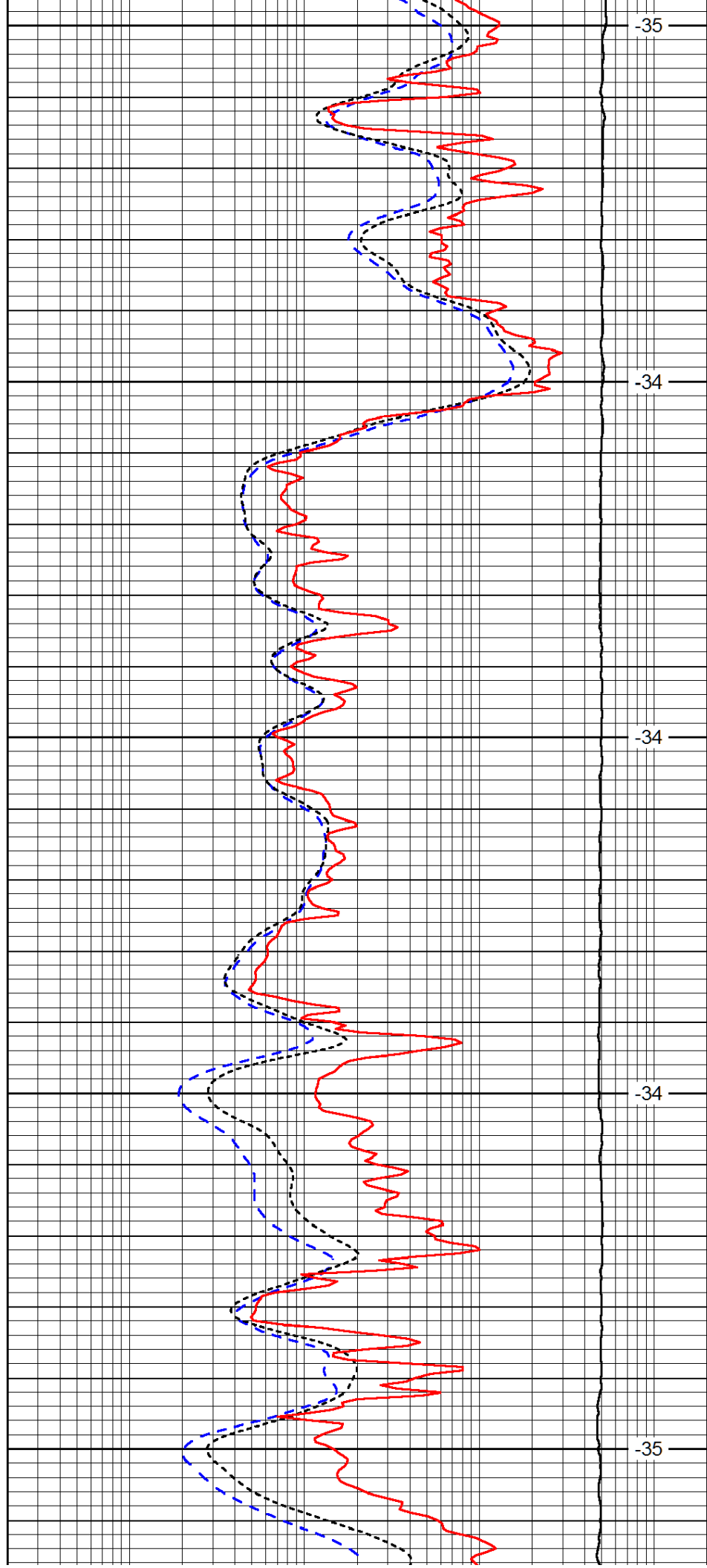
3350

3400

3450

3500

3550



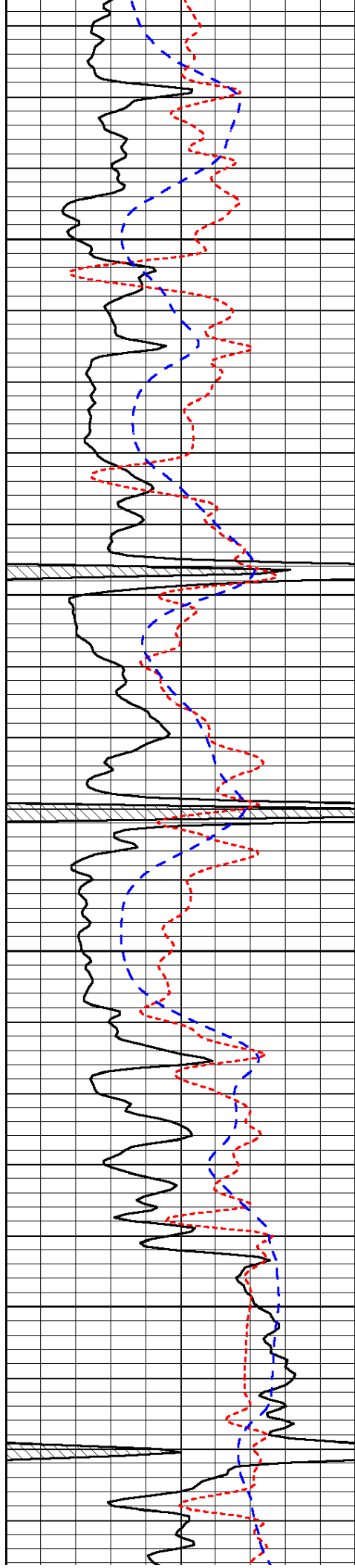
-35

-34

-34

-34

-35

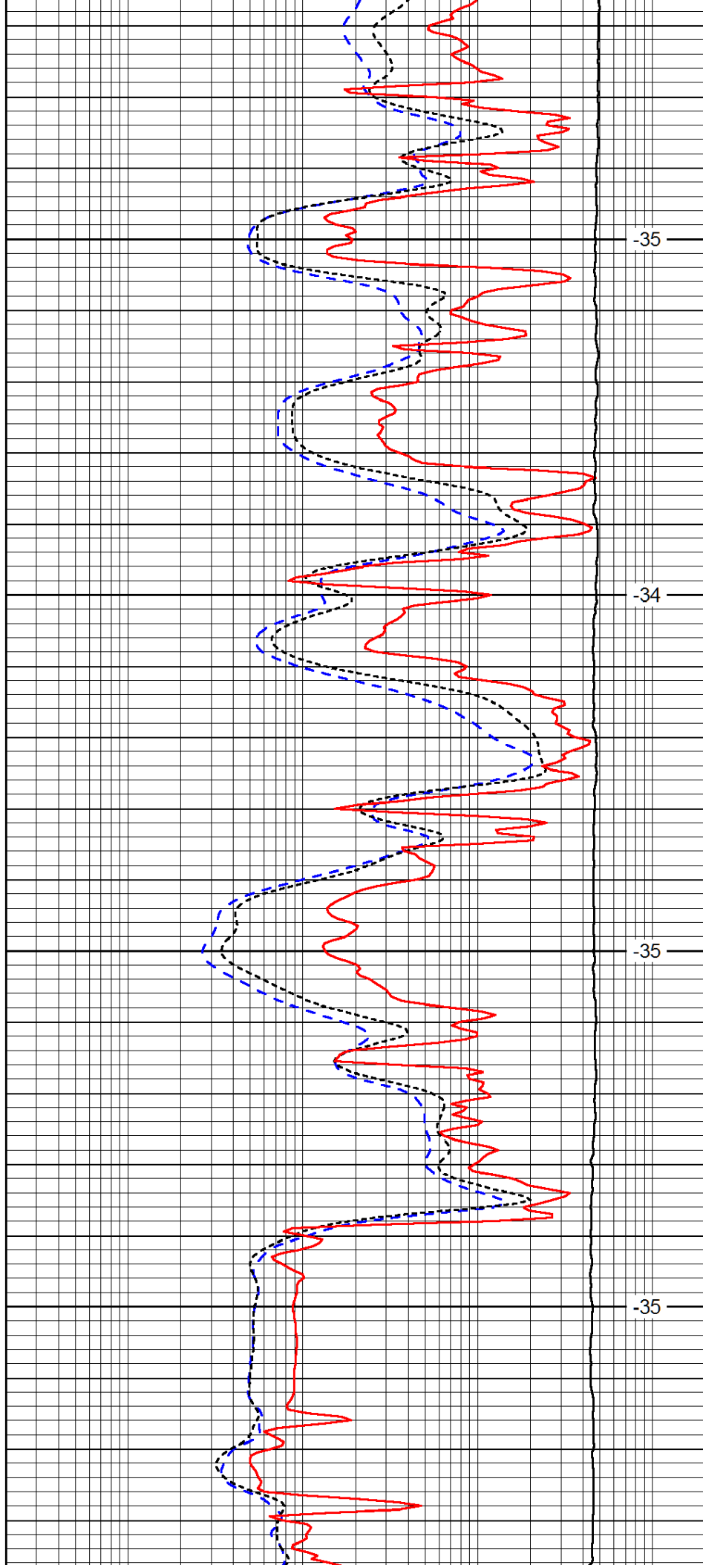


3600

3650

3700

3750

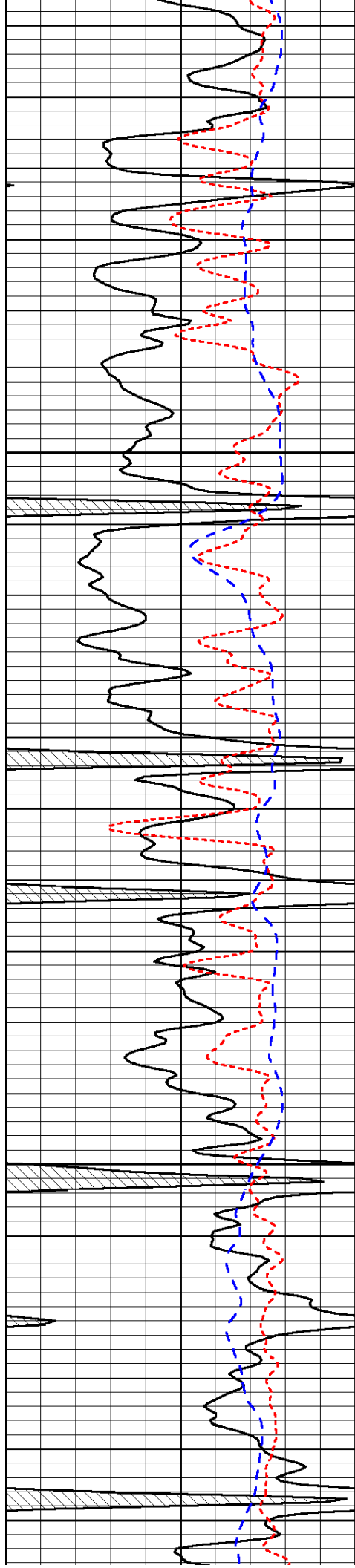


-35

-34

-35

-35



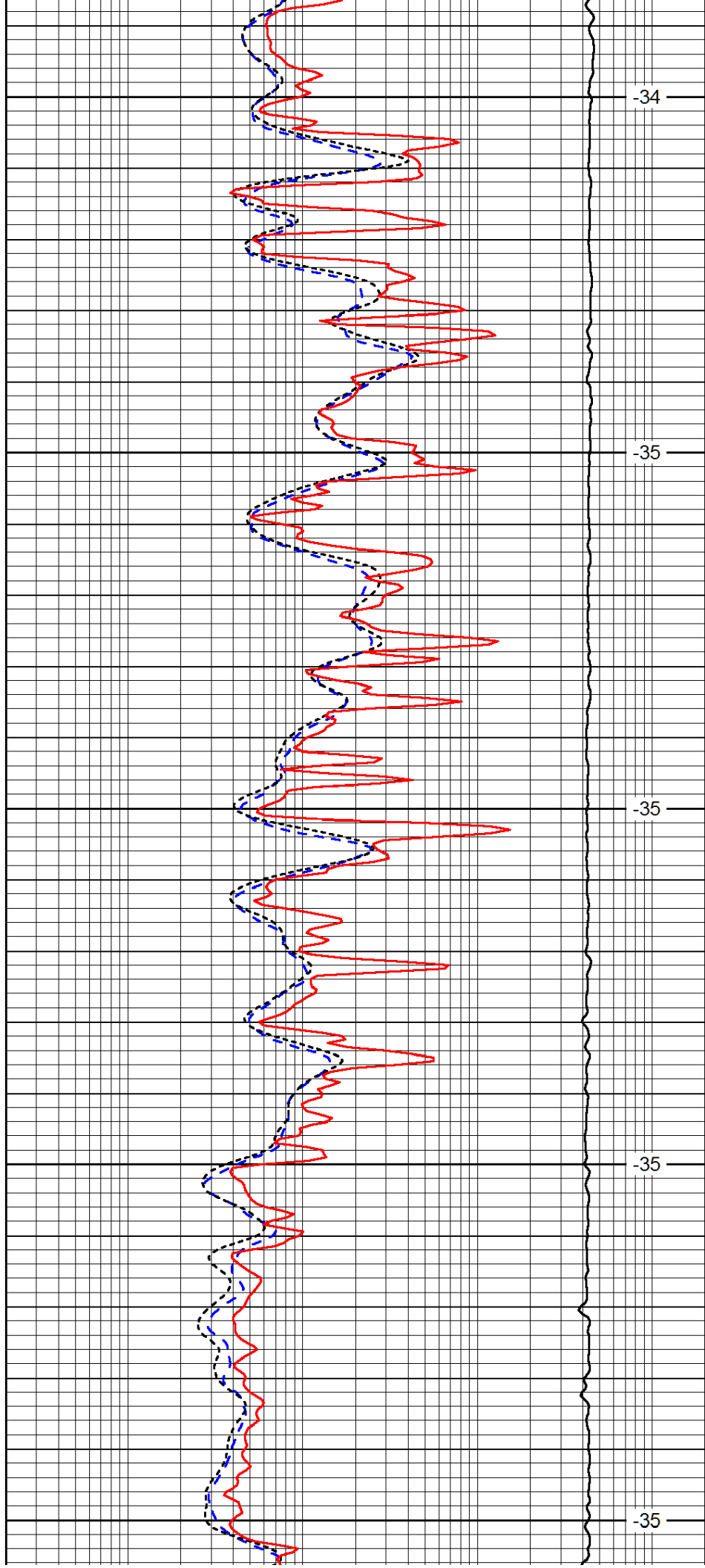
3800

3850

3900

3950

4000



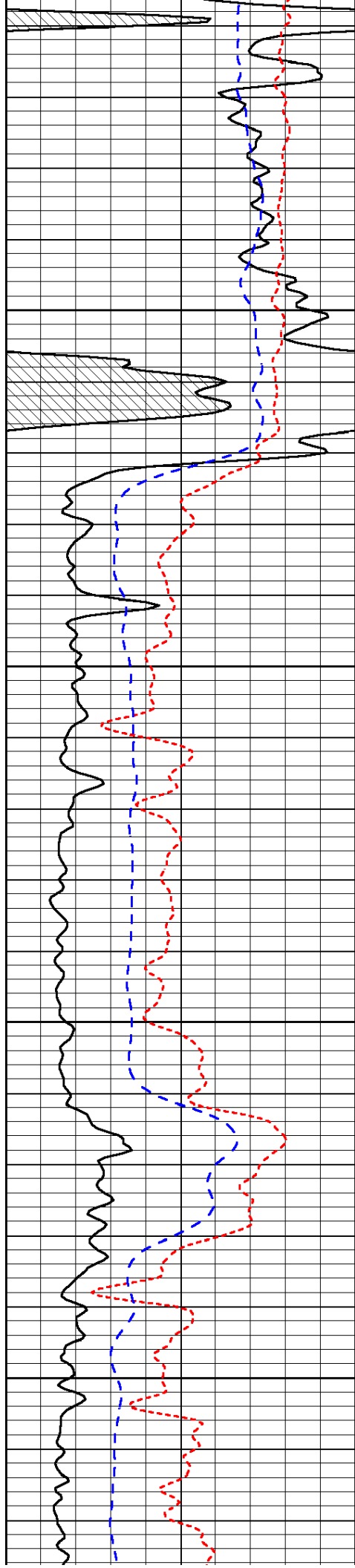
-34

-35

-35

-35

-35

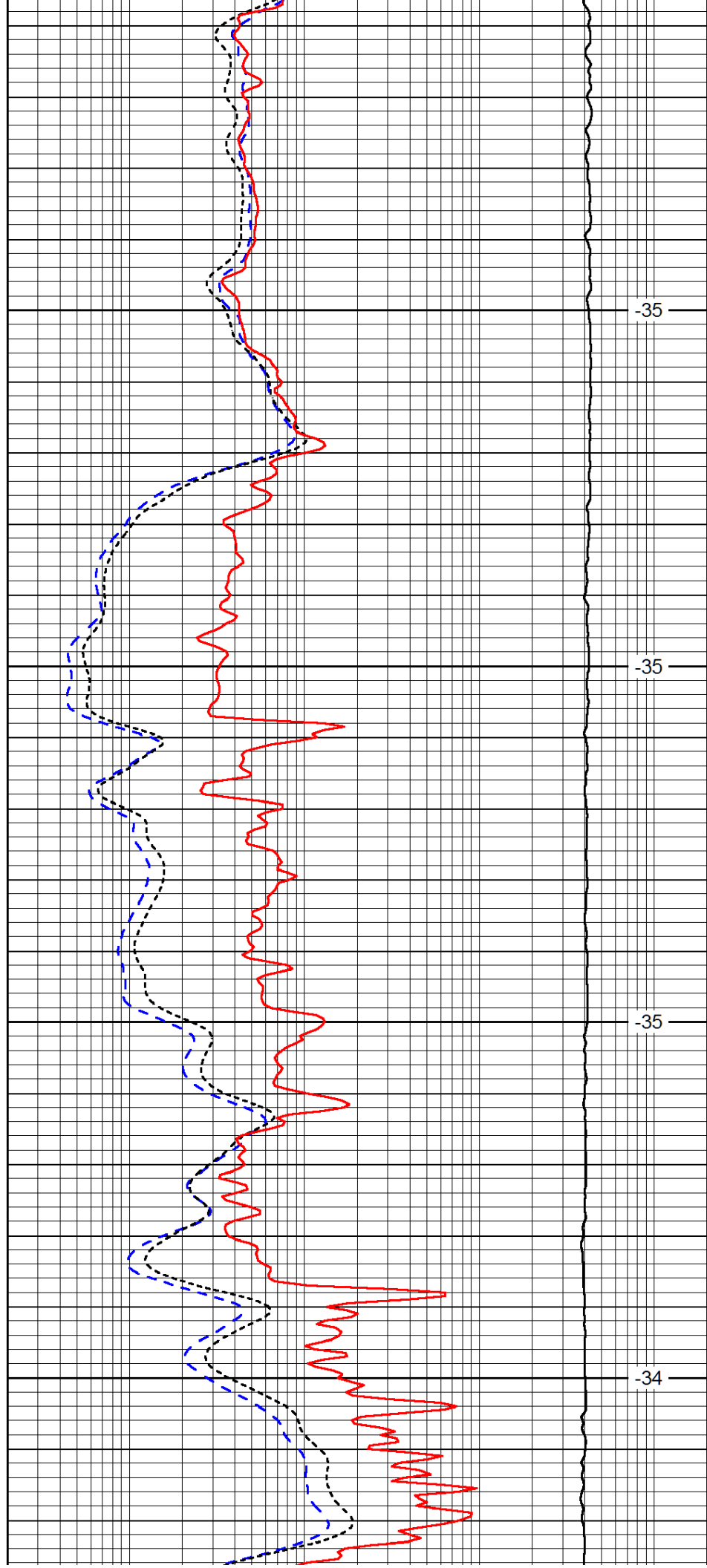


4050

4100

4150

4200

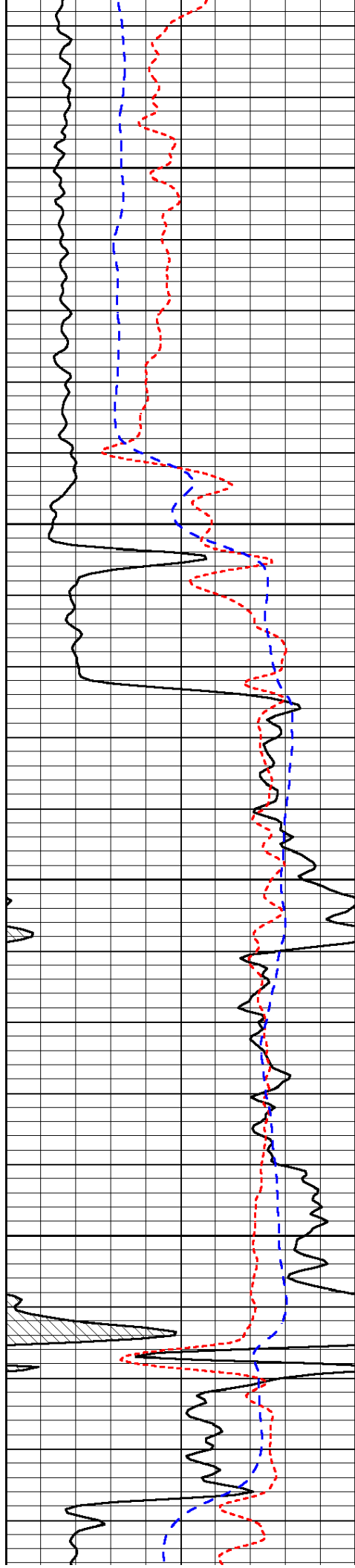


-35

-35

-35

-34



4250

4300

4350

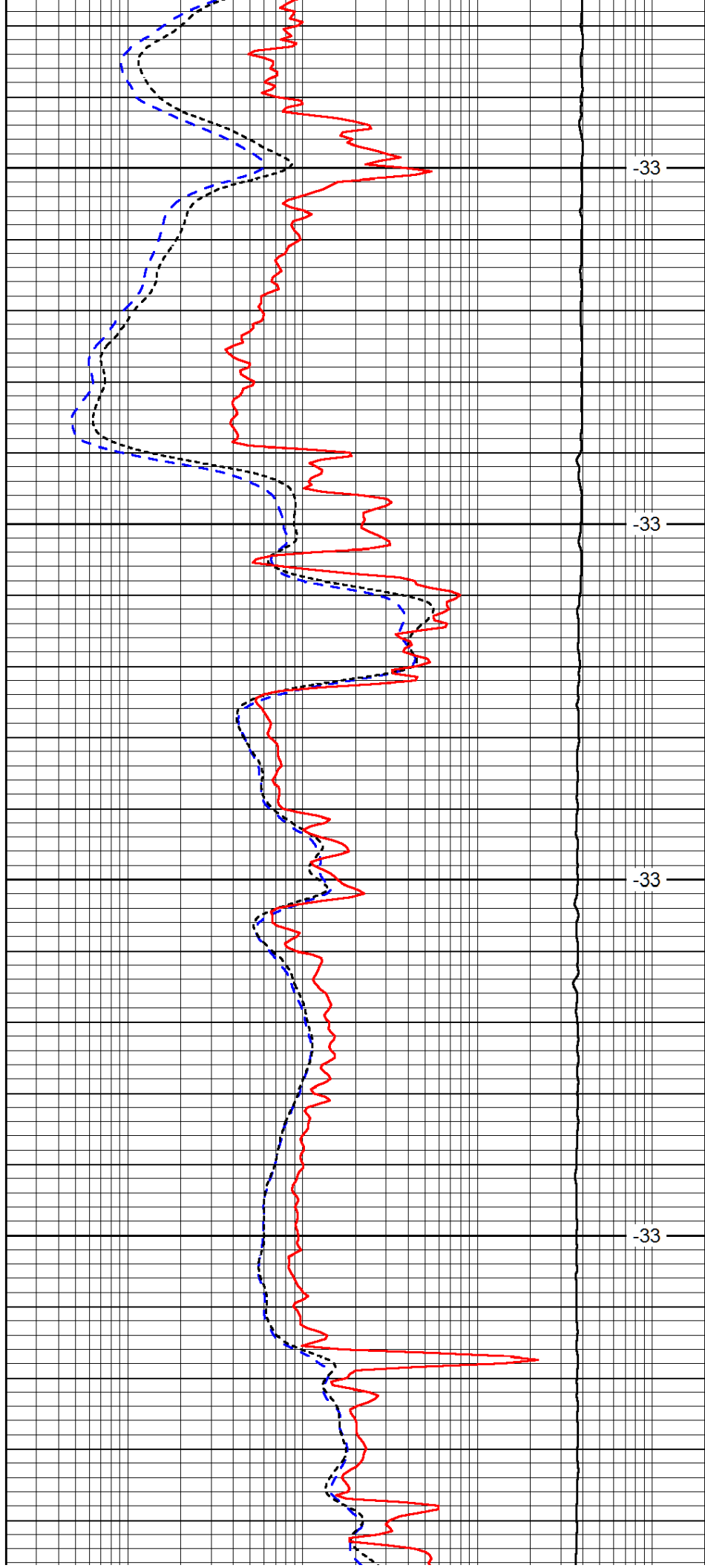
4400

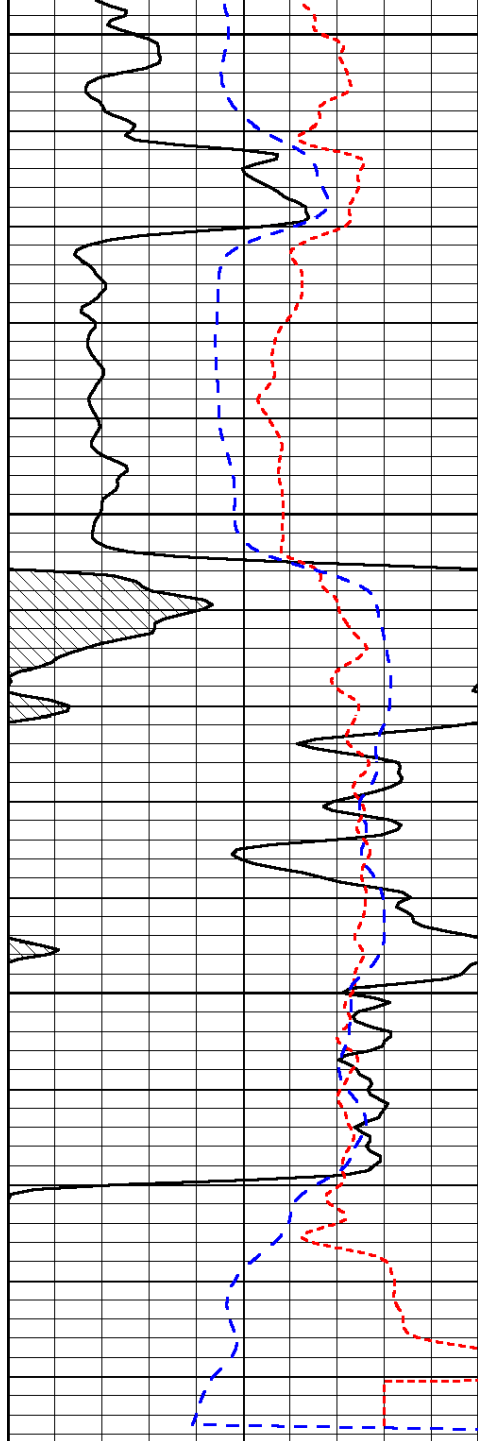
-33

-33

-33

-33



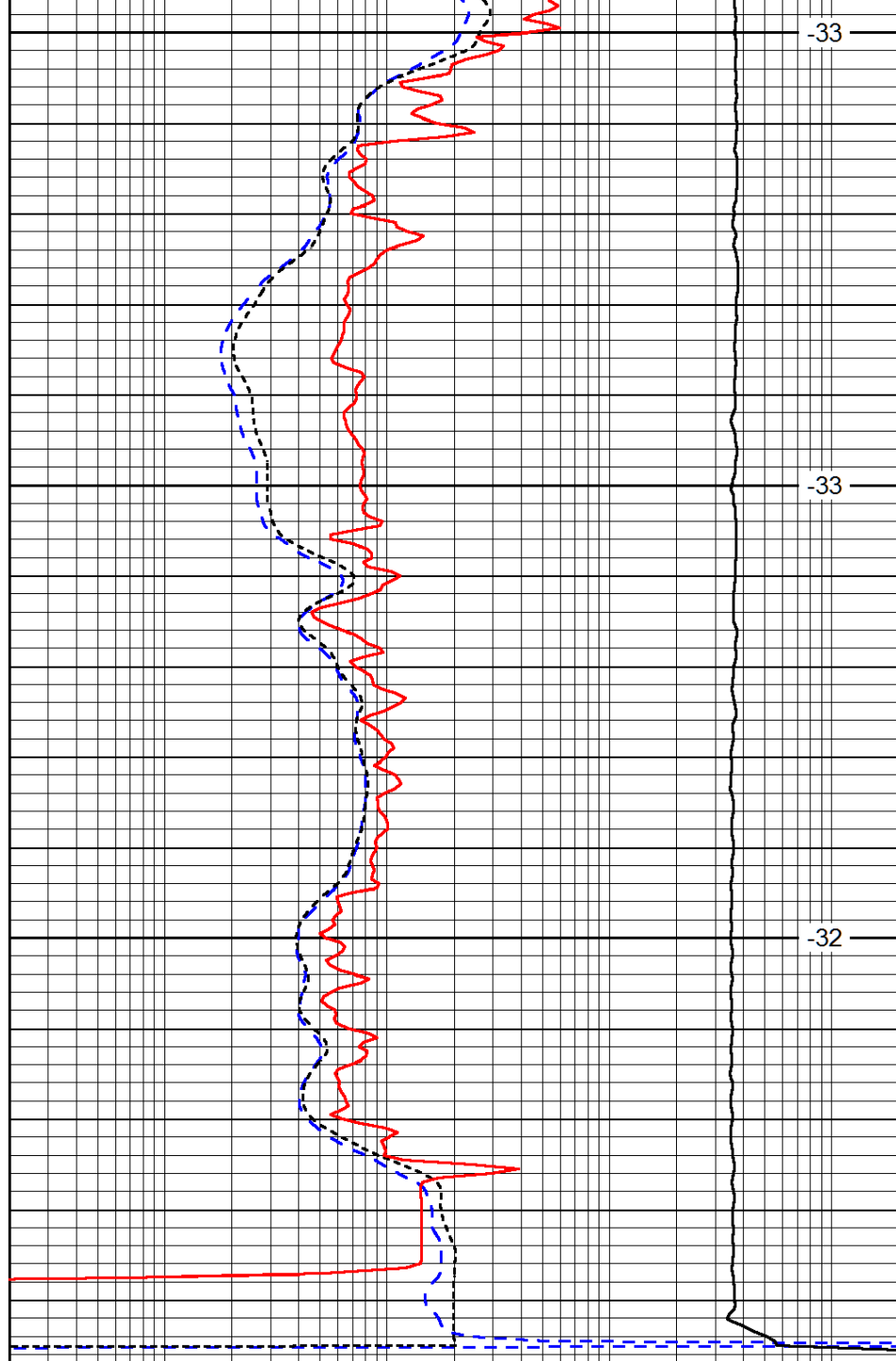


0	Gamma Ray (GAPI)	150
-160	RXO/RT	40
-200	SP (mV)	0

4450

4500

4550



-33

-33

-32

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)