



Pioneer Energy Services

Dual Induction Log

API No.

15-171-20984-00-00

Company **Landmark Resources, Inc.**

Well **Rose #1-3**

Field **Wildcat**

County **Scott** State **Kansas**

Location **NW NE NW SW
2322' FSL / 985' FWL**

Other Services
CNL / CDL
MEL / BHCS

Sec: 3 Twp: 17S Rge: 34W

Permanent Datum Ground Level Elevation 3125
Log Measured From Kelly Bushing 5 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Elevation
K.B. 3130
D.F.
G.L. 3125

Date 9/29/2013

Run Number One

Depth Driller 4880

Depth Logger 4883

Bottom Logged Interval 4882

Top Log Interval 250

Casing Driller 8.625 @ 261

Casing Logger 258

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 8500

Density / Viscosity 9.3 59

pH / Fluid Loss 8.5 12.0

Source of Sample Flowline

Rm @ Meas. Temp 0.20 @ 70

Rmf @ Meas. Temp 0.15 @ 70

Rmc @ Meas. Temp 0.27 @ 70

Source of Rmf / Rmc Charts

Rm @ BHT 0.11 @ 125

Operating Rig Time 5 Hours

Max Rec. Temp. F 125

Equipment Number 15

Location Hays

Recorded By R. Barnhart

Witnessed By Terry Mcleod

<<< 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

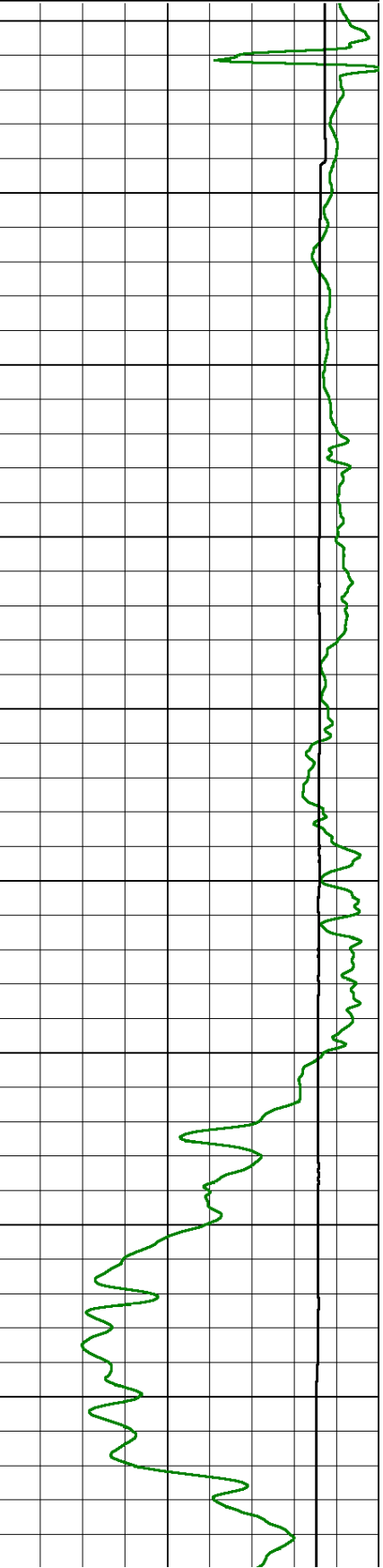
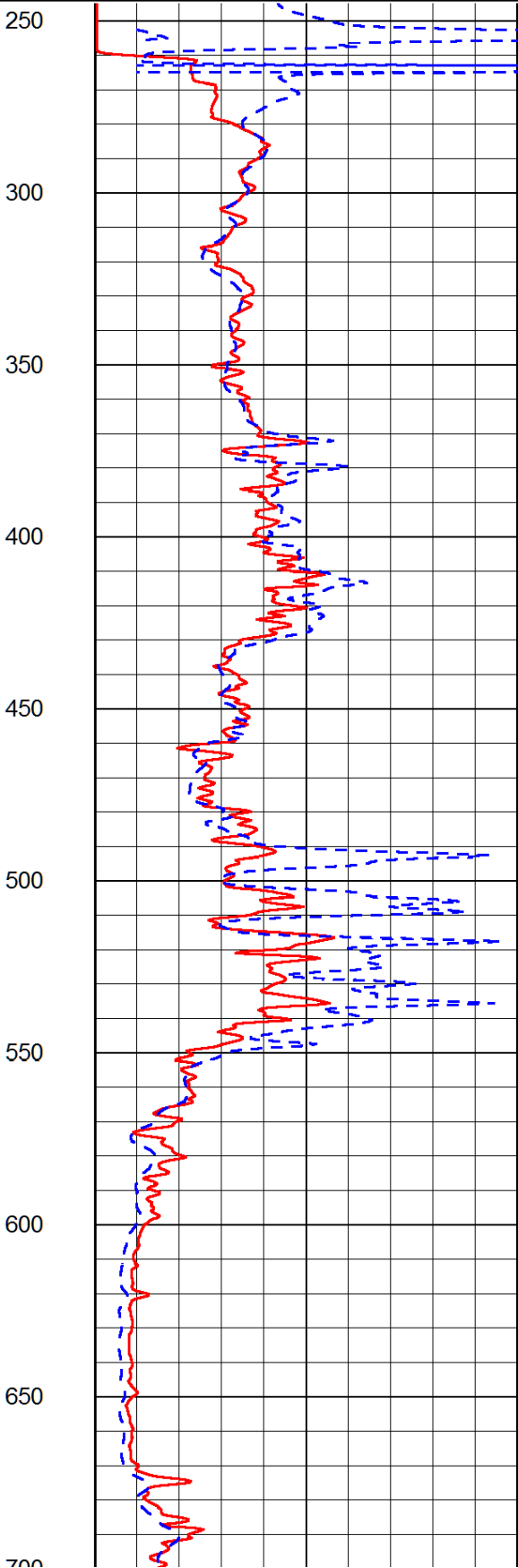
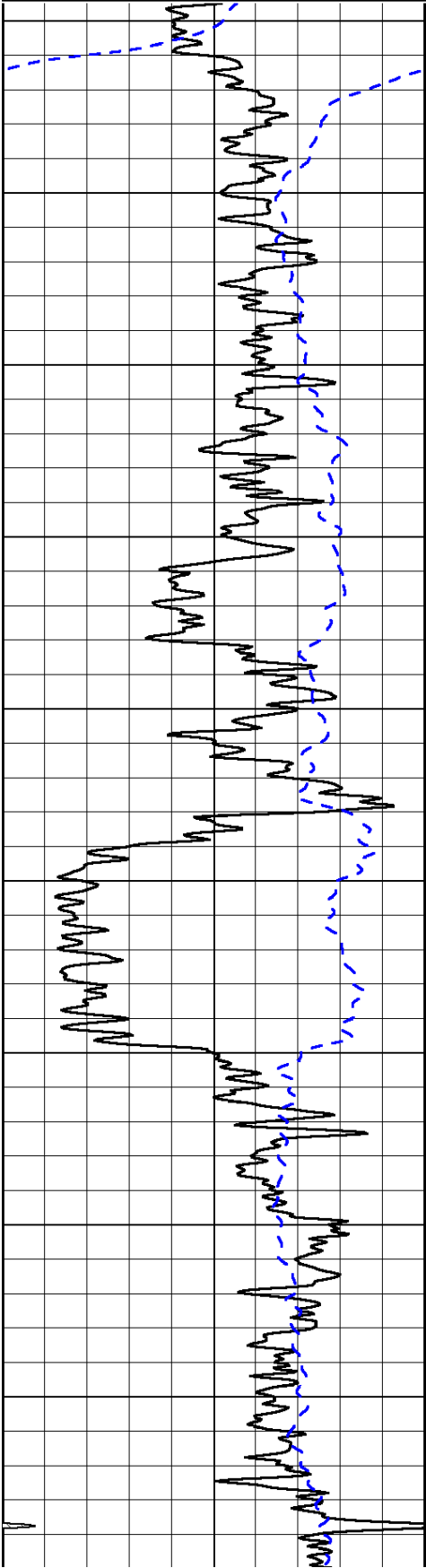
Thank you for using Log-Tech, Inc.
(785) 625-3858

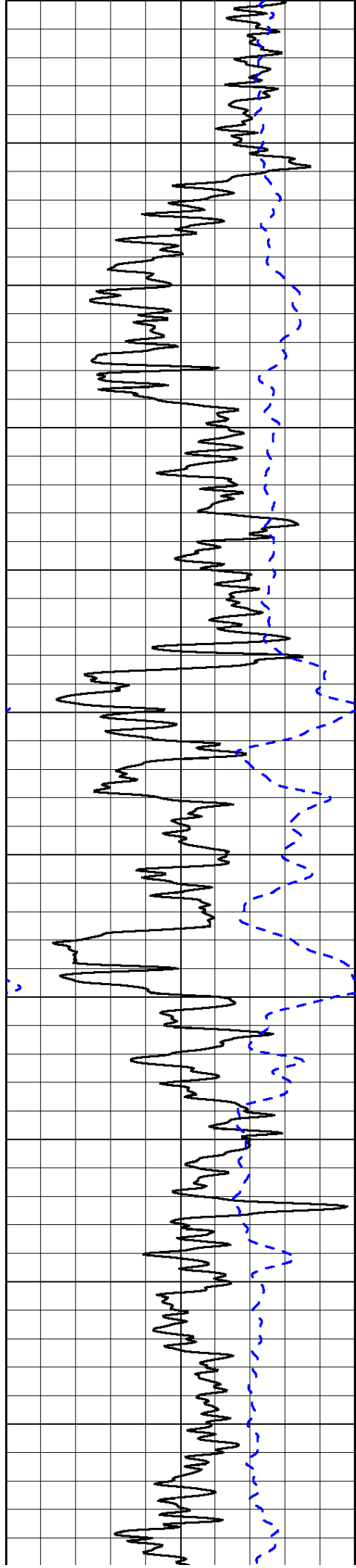
Scott City, KS:
N to Hwy 83 & Hwy 4: 4W, 1N, 5W, 1/2S, E into

Database File: landmark_hd.db
Dataset Pathname: dil/Indmain
Presentation Format: dil2in
Dataset Creation: Sun Sep 29 12:59:30 2013
Charted by: Depth in Feet scaled 1:600

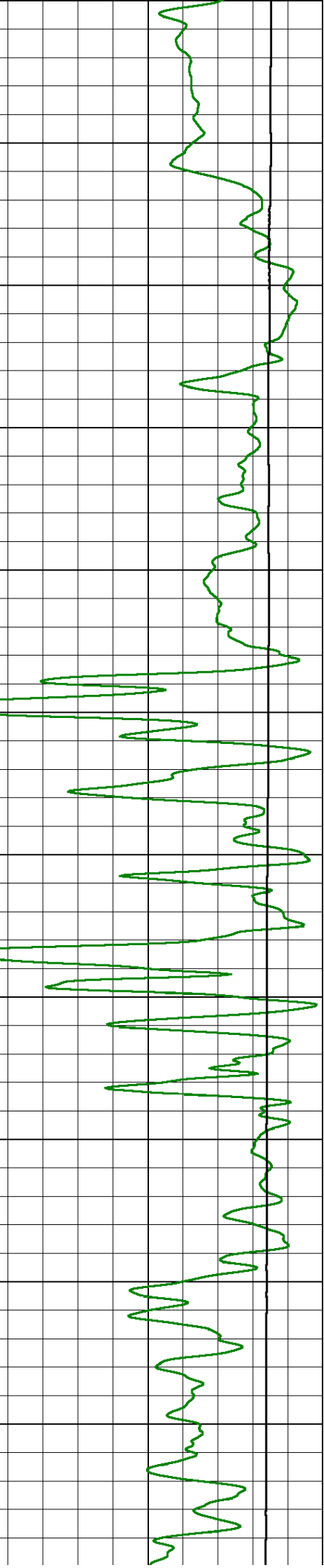
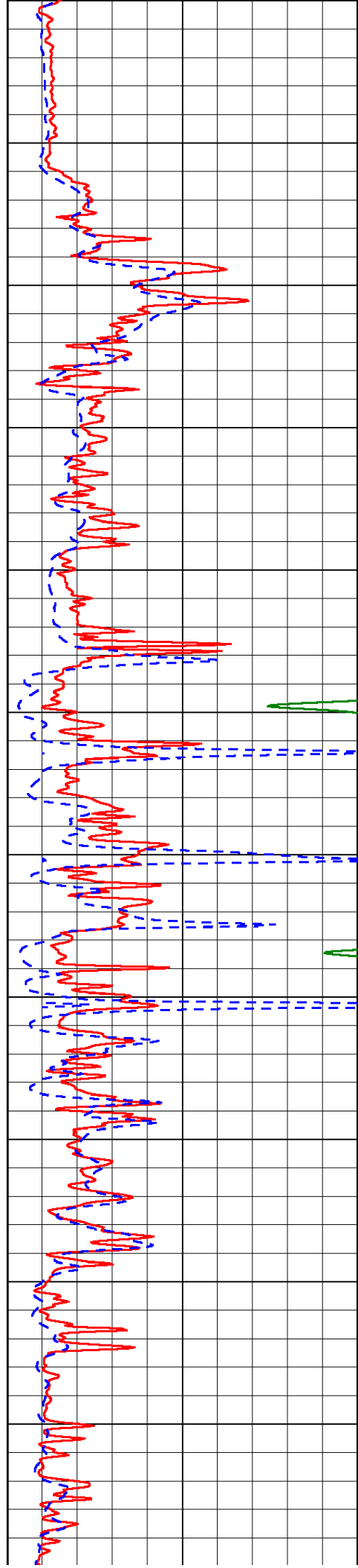
0	Gamma Ray (GAPI)	150
-200	SP (mV)	0

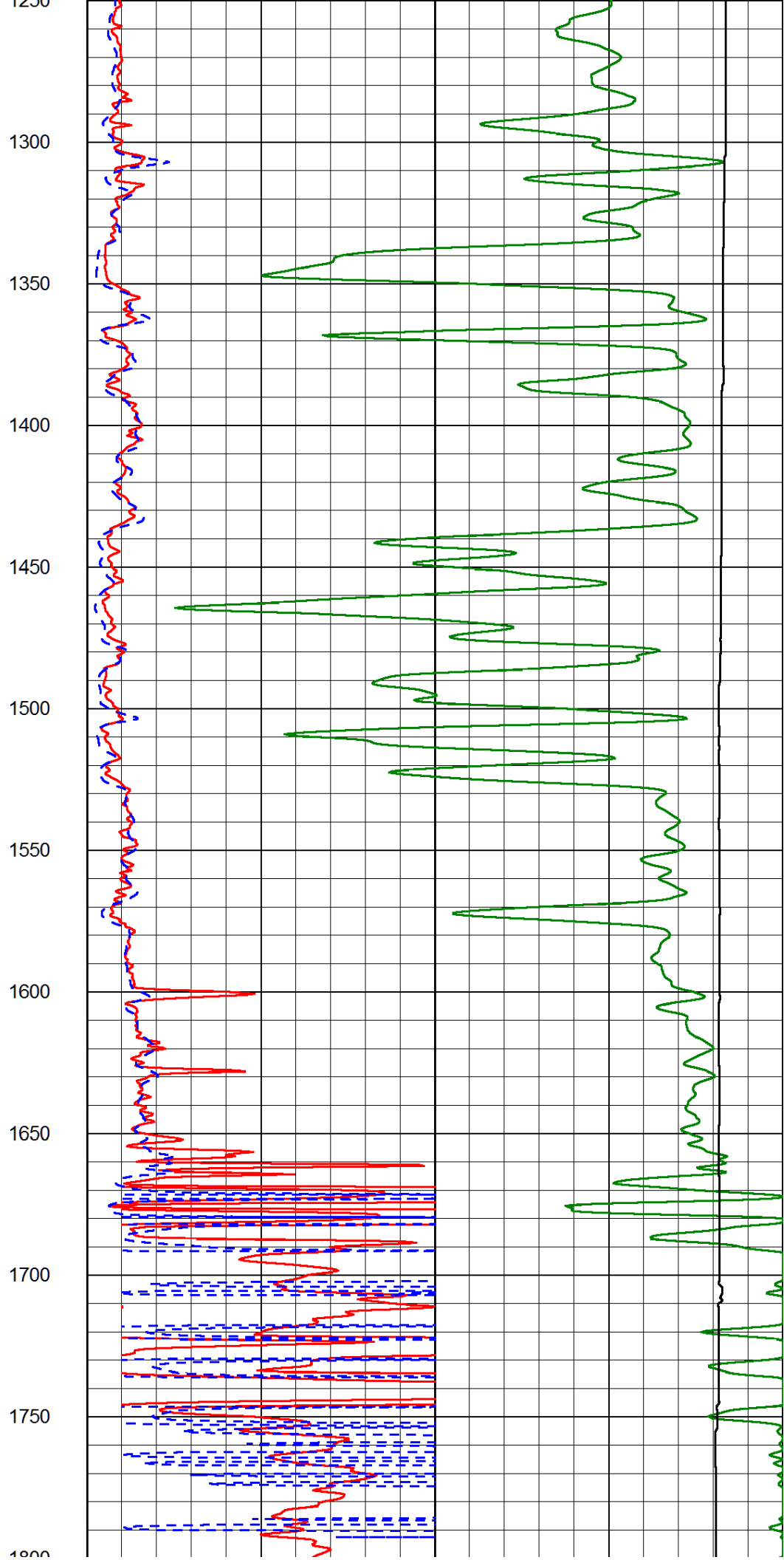
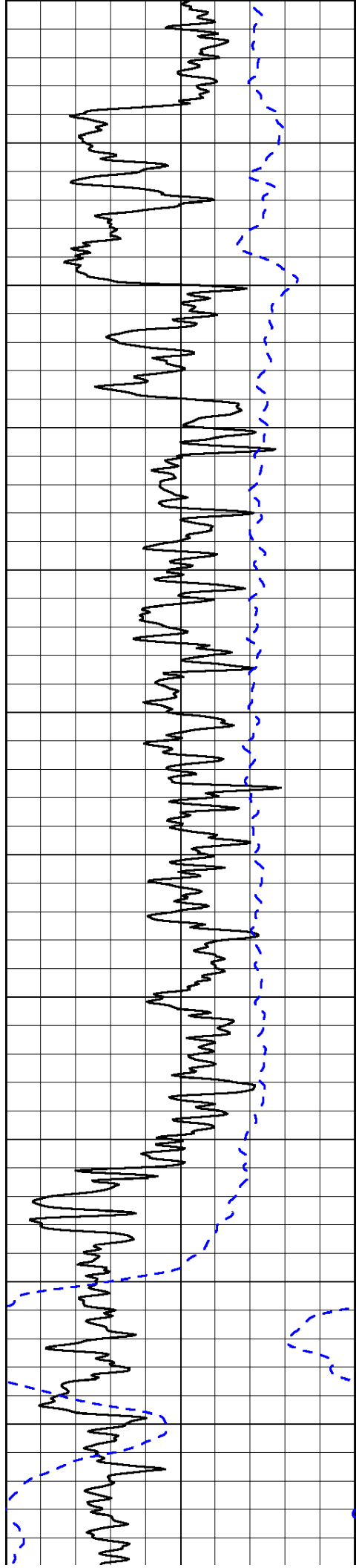
0	Shallow Resistivity (Ohm-m)	50
0	Deep Resistivity (Ohm-m)	50
1000	Conductivity (Ohm-m)	0
15000	Line Tension (lb)	0
	Shallow Resistivity	
50	(Ohm-m)	500
50	Deep Resistivity (Ohm-m)	500

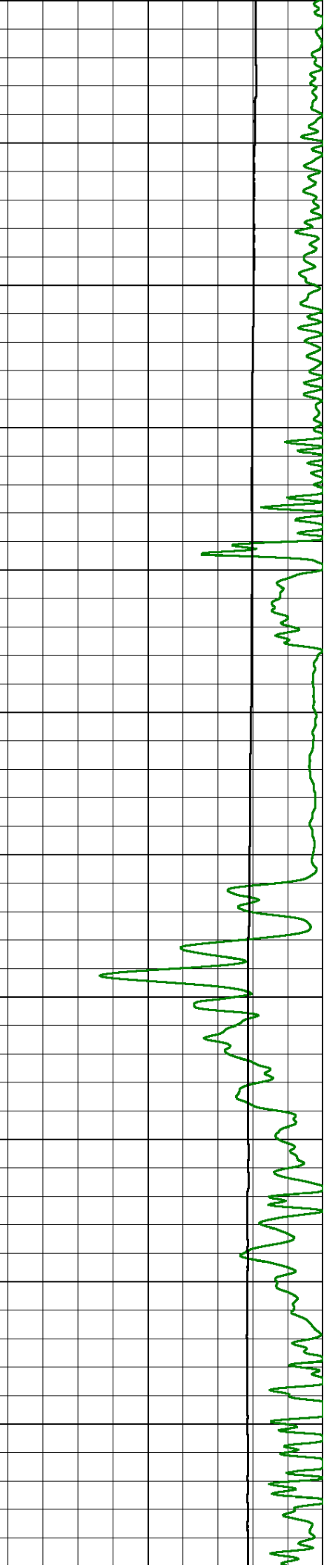
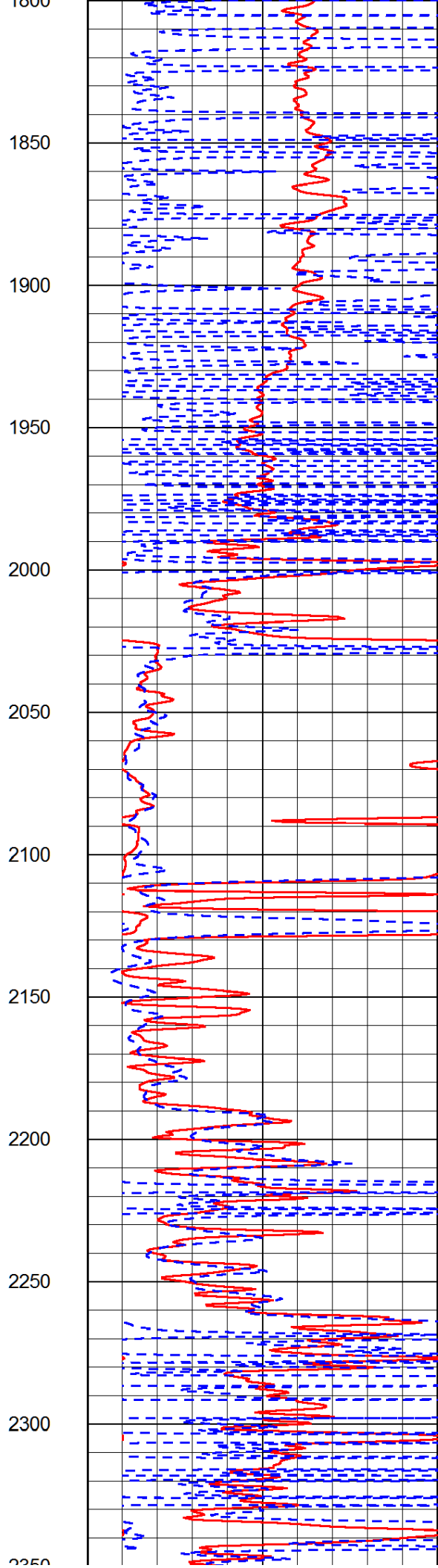
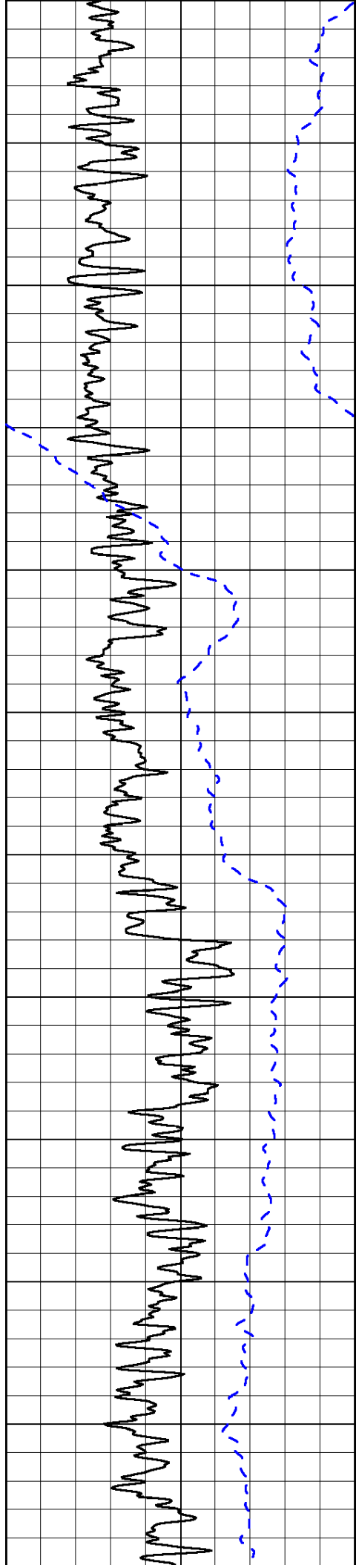


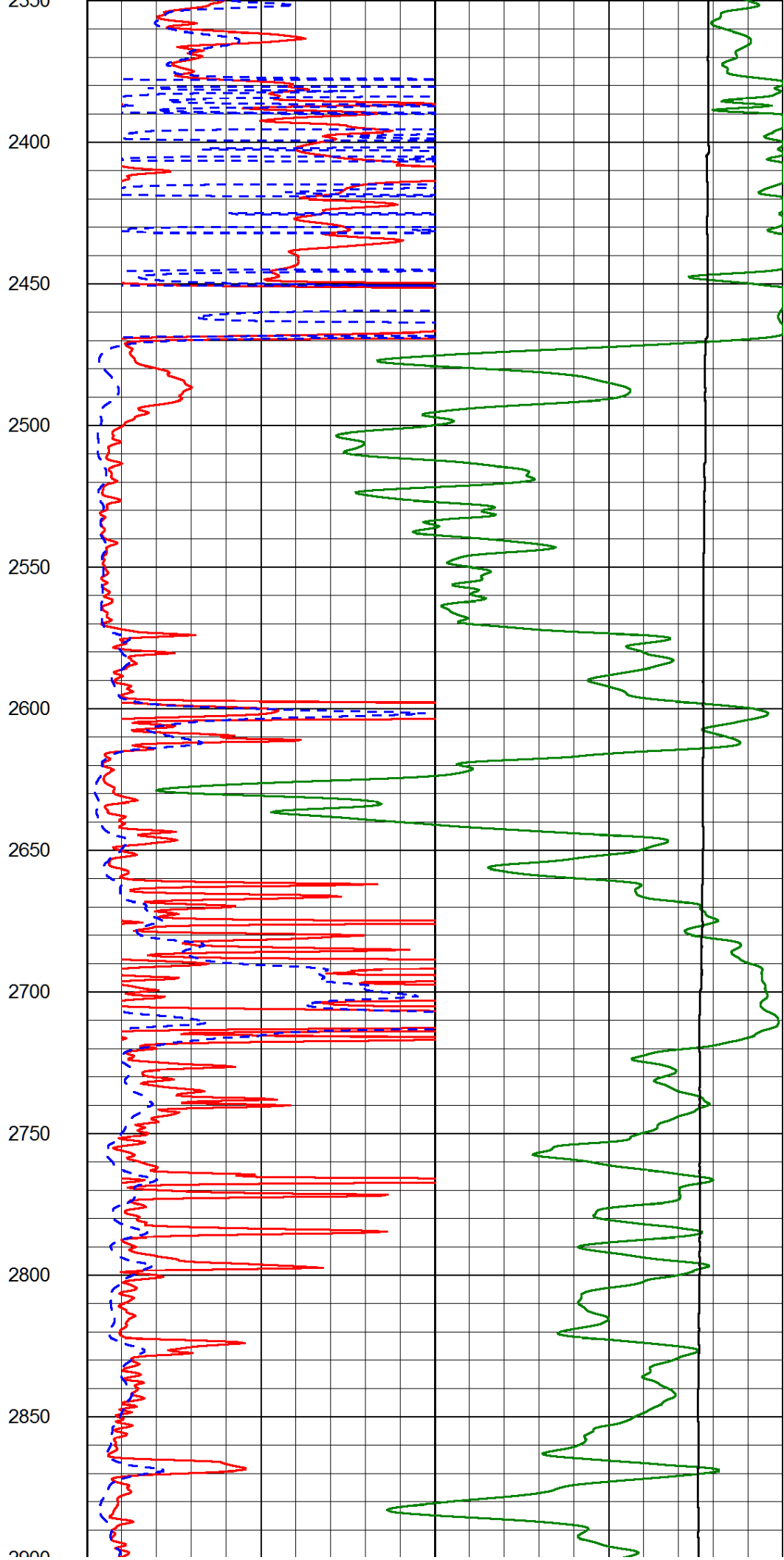
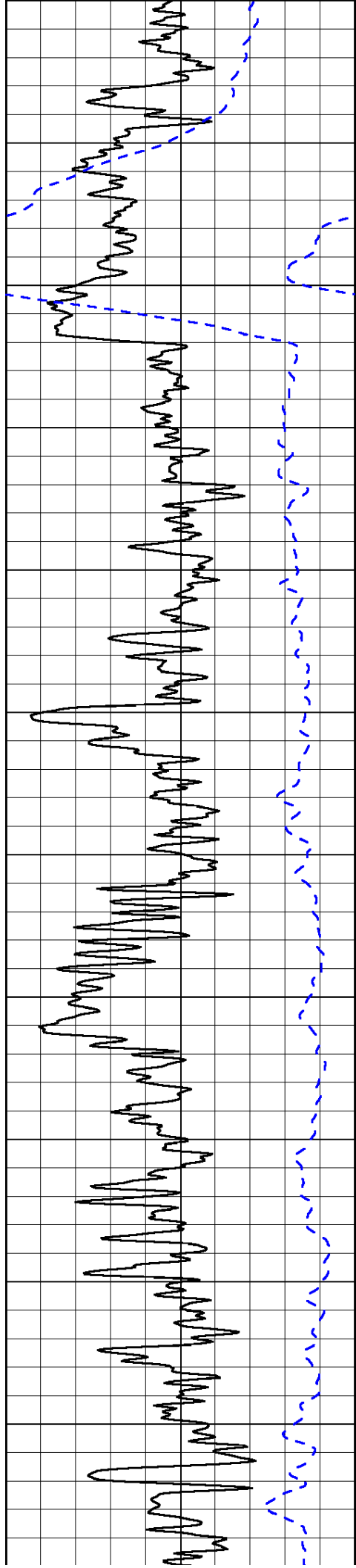


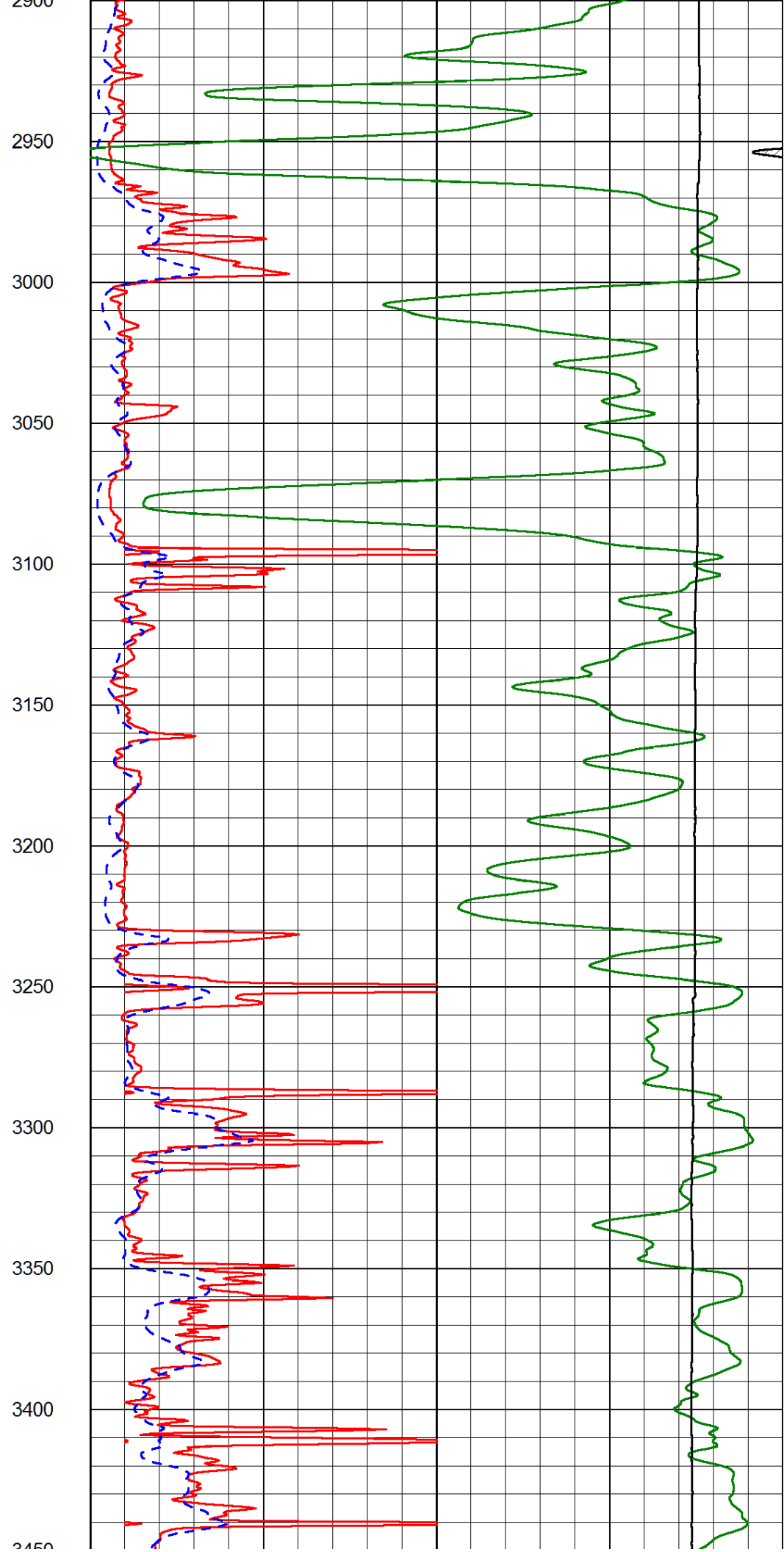
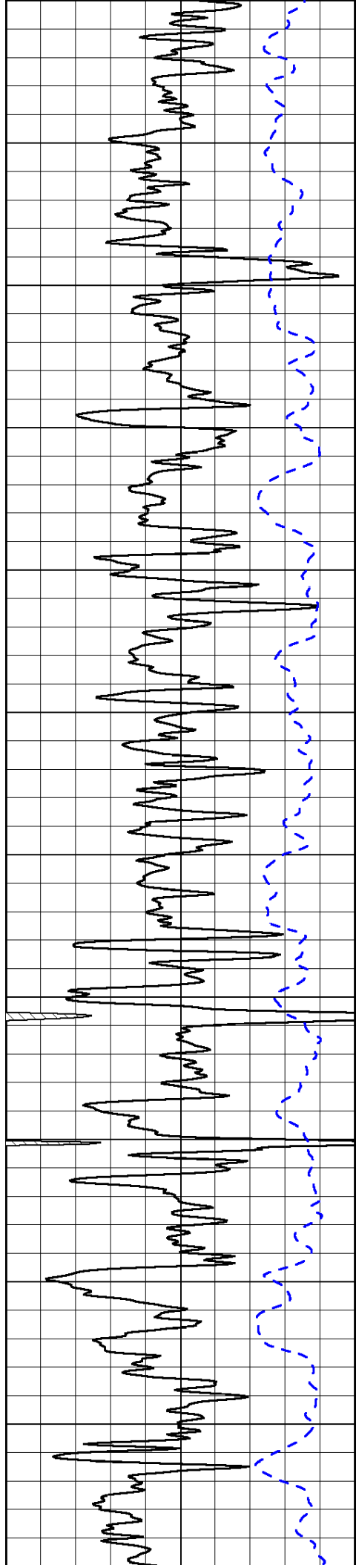
700
750
800
850
900
950
1000
1050
1100
1150
1200
1250

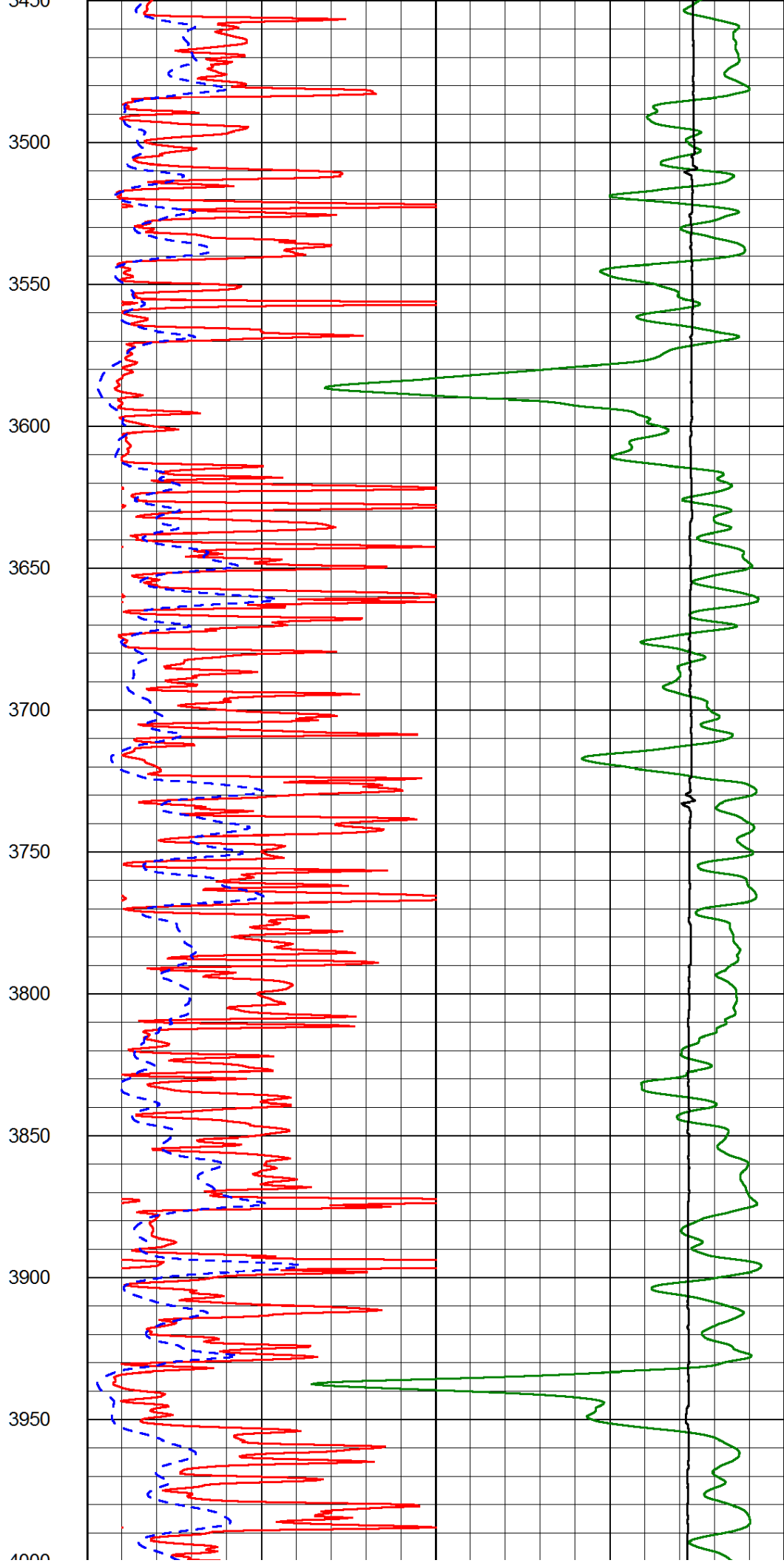
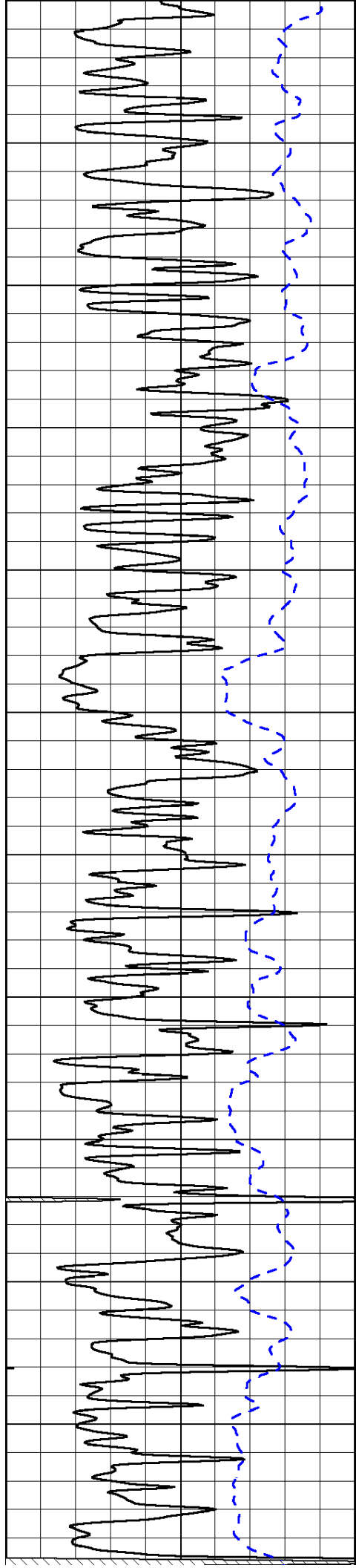


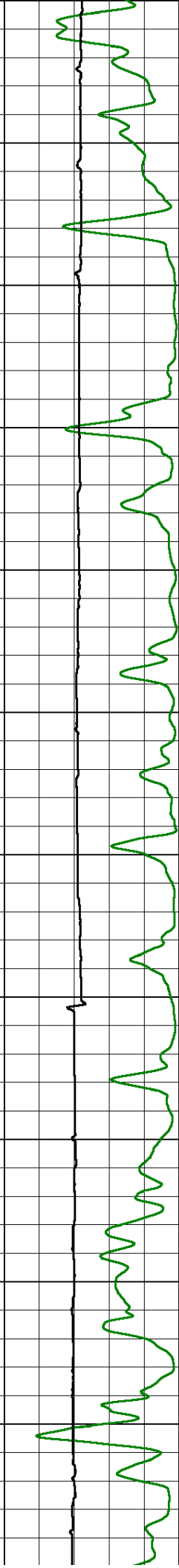
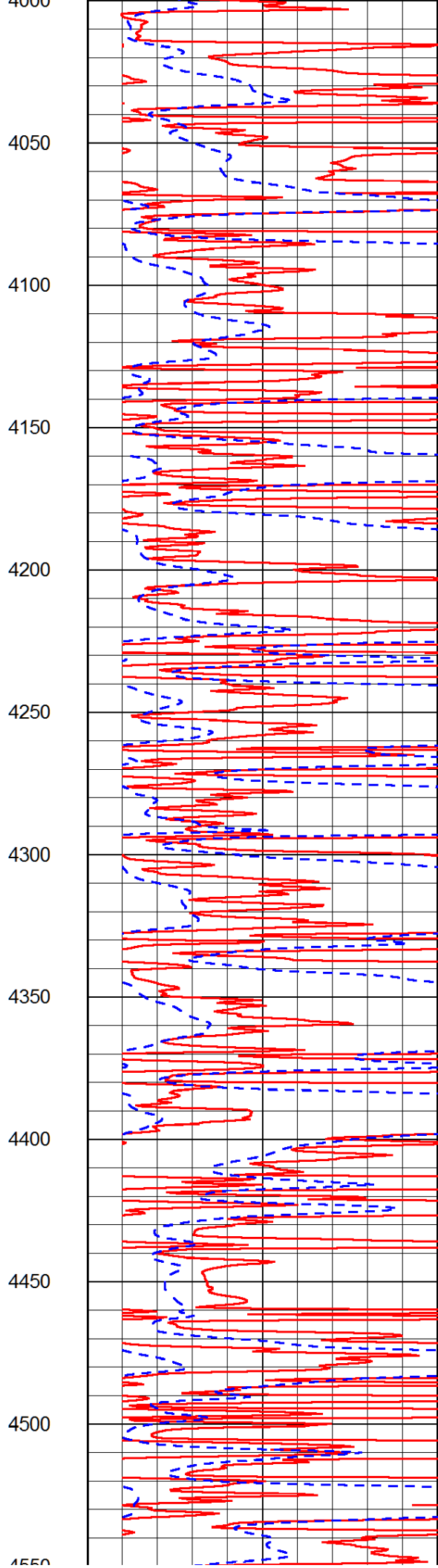
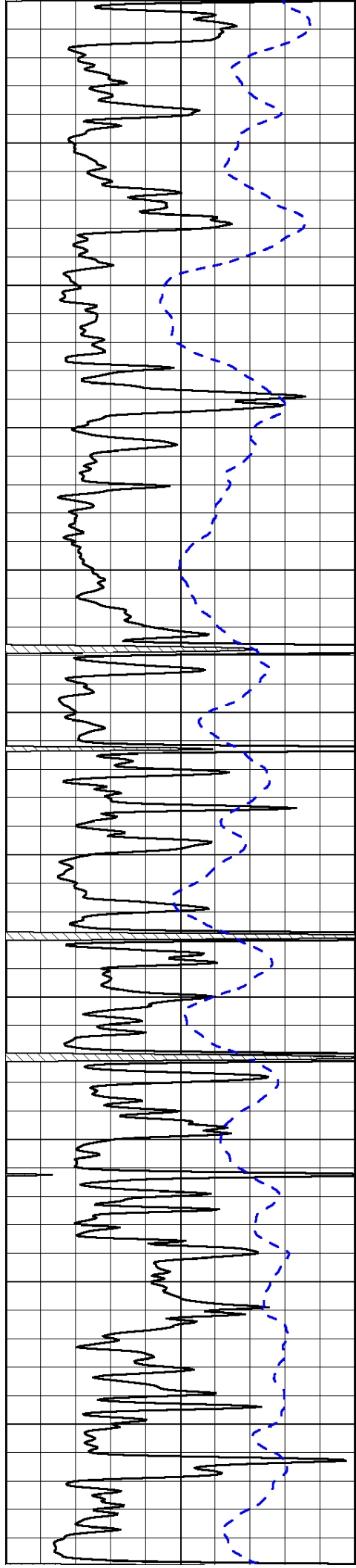


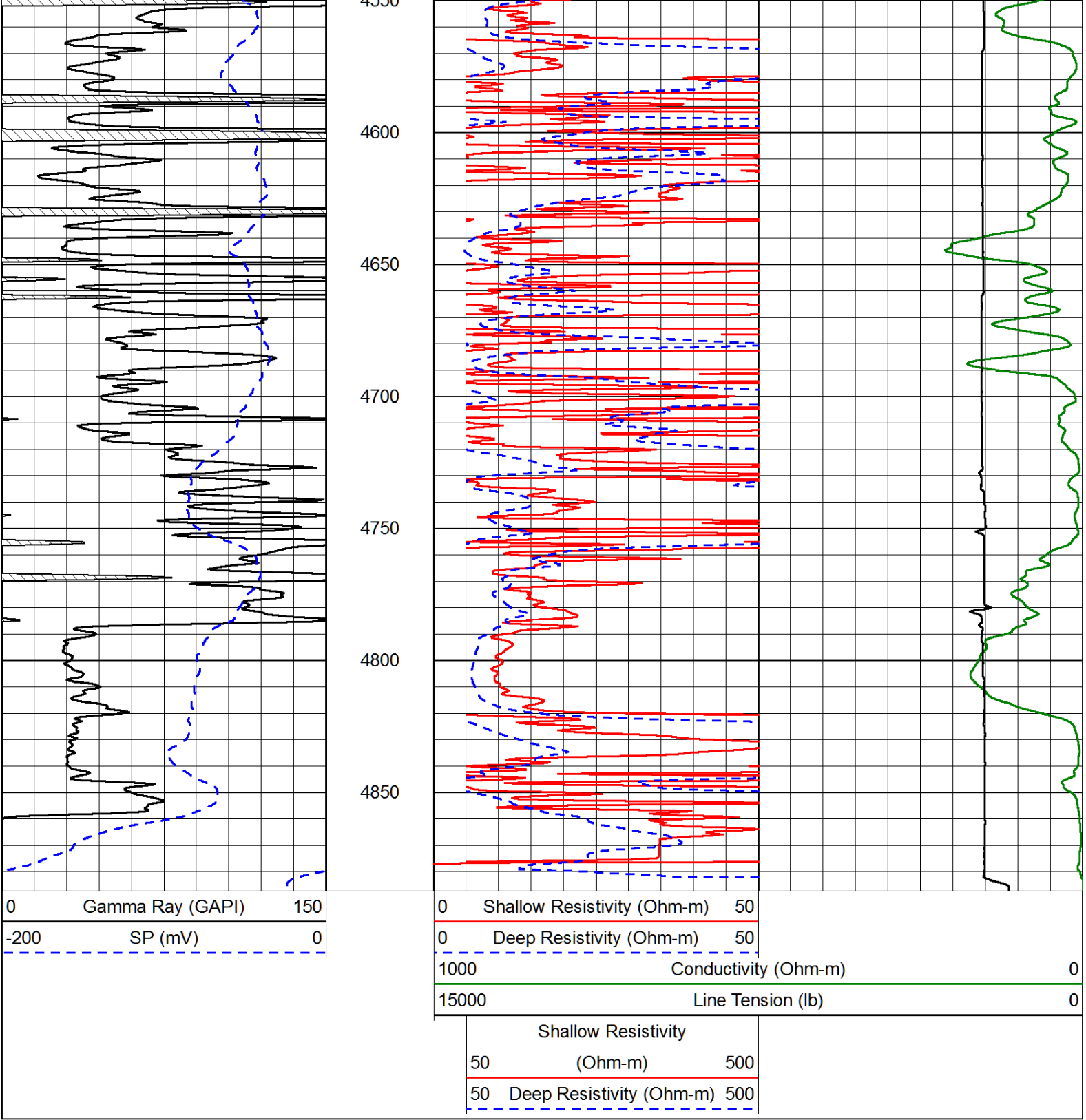




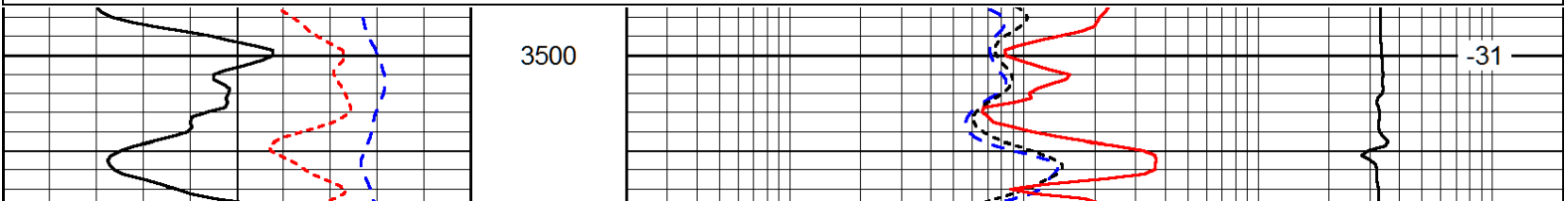
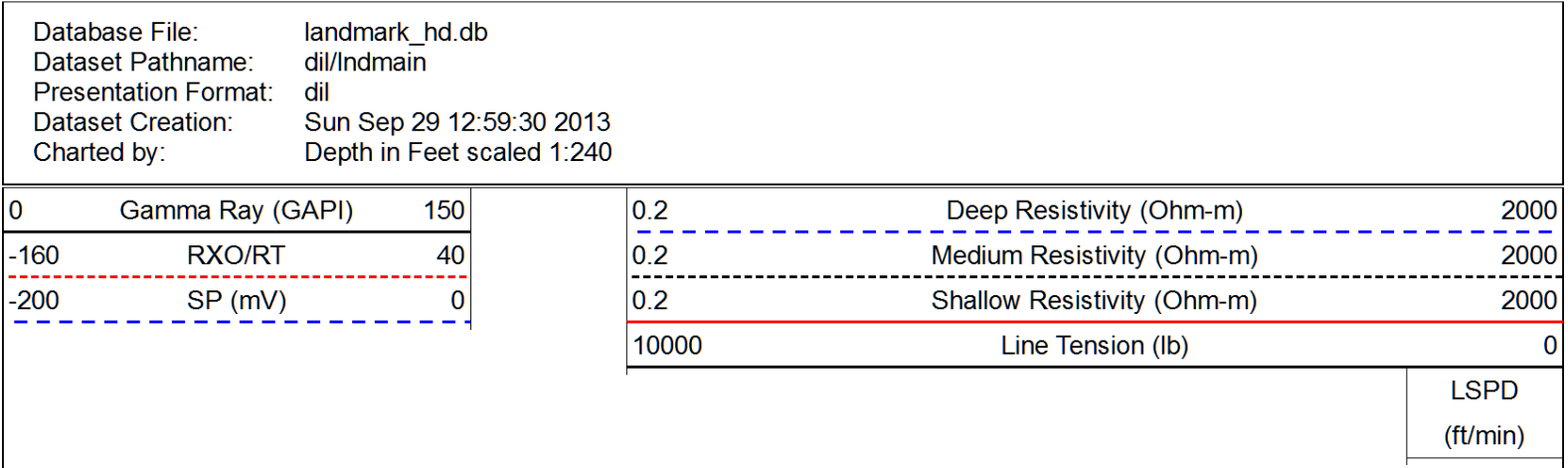
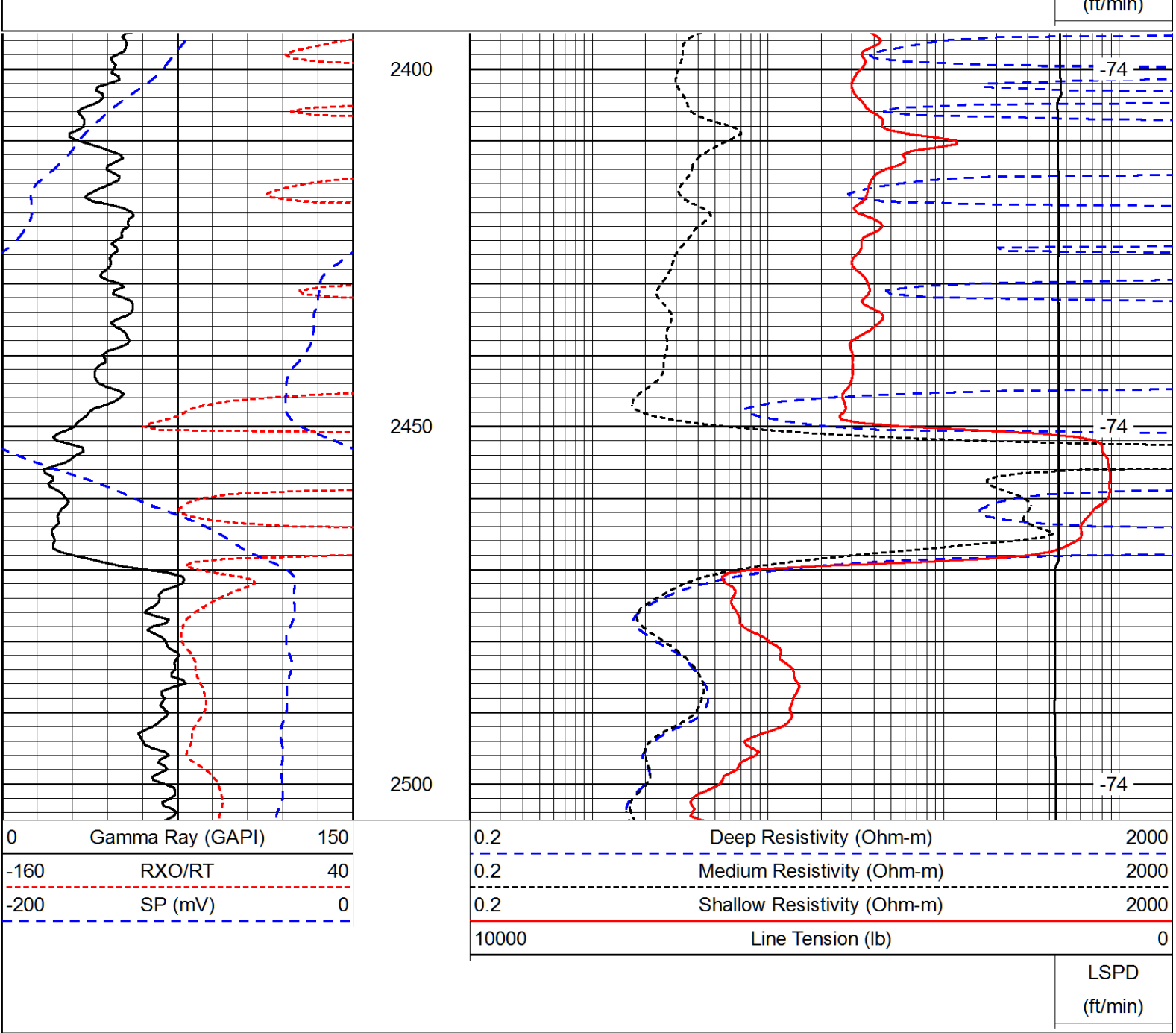


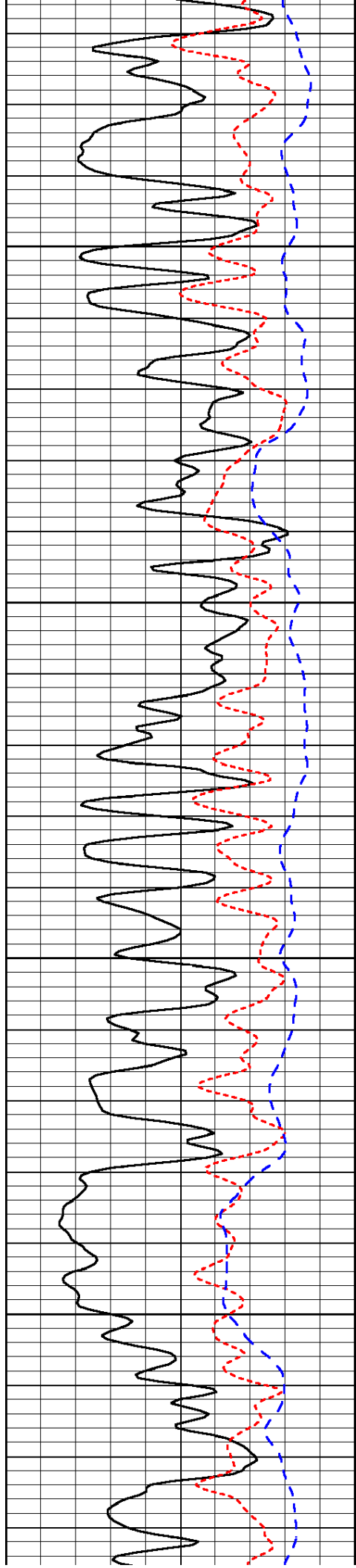






Database File: landmark_hd.db		
Dataset Pathname: dil/Indmain		
Presentation Format: dil		
Dataset Creation: Sun Sep 29 12:59:30 2013		
Charted by: Depth in Feet scaled 1:240		
0	Gamma Ray (GAPI)	150
-160	RXO/RT	40
-200	SP (mV)	0
0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000
10000	Line Tension (lb)	0
		LSPD



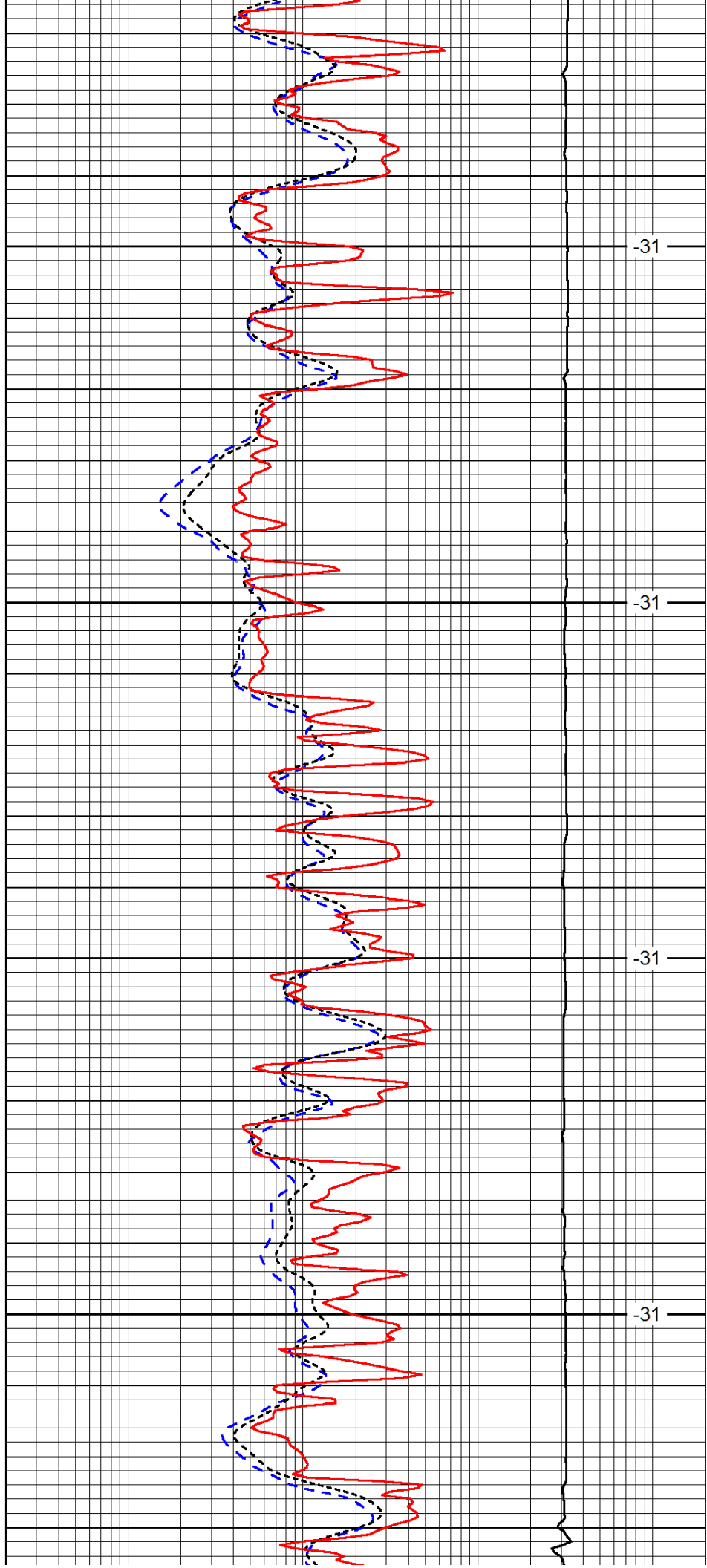


3550

3600

3650

3700

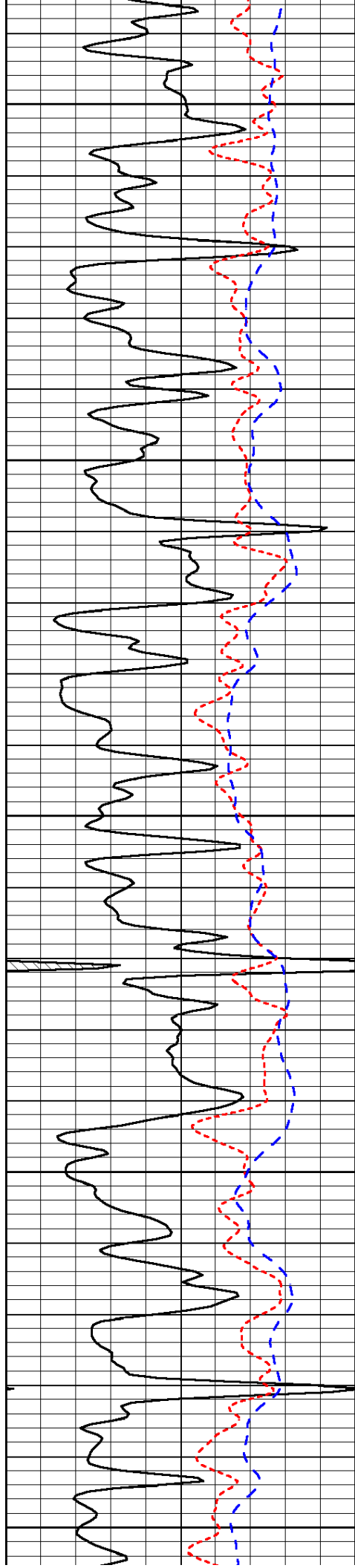


-31

-31

-31

-31



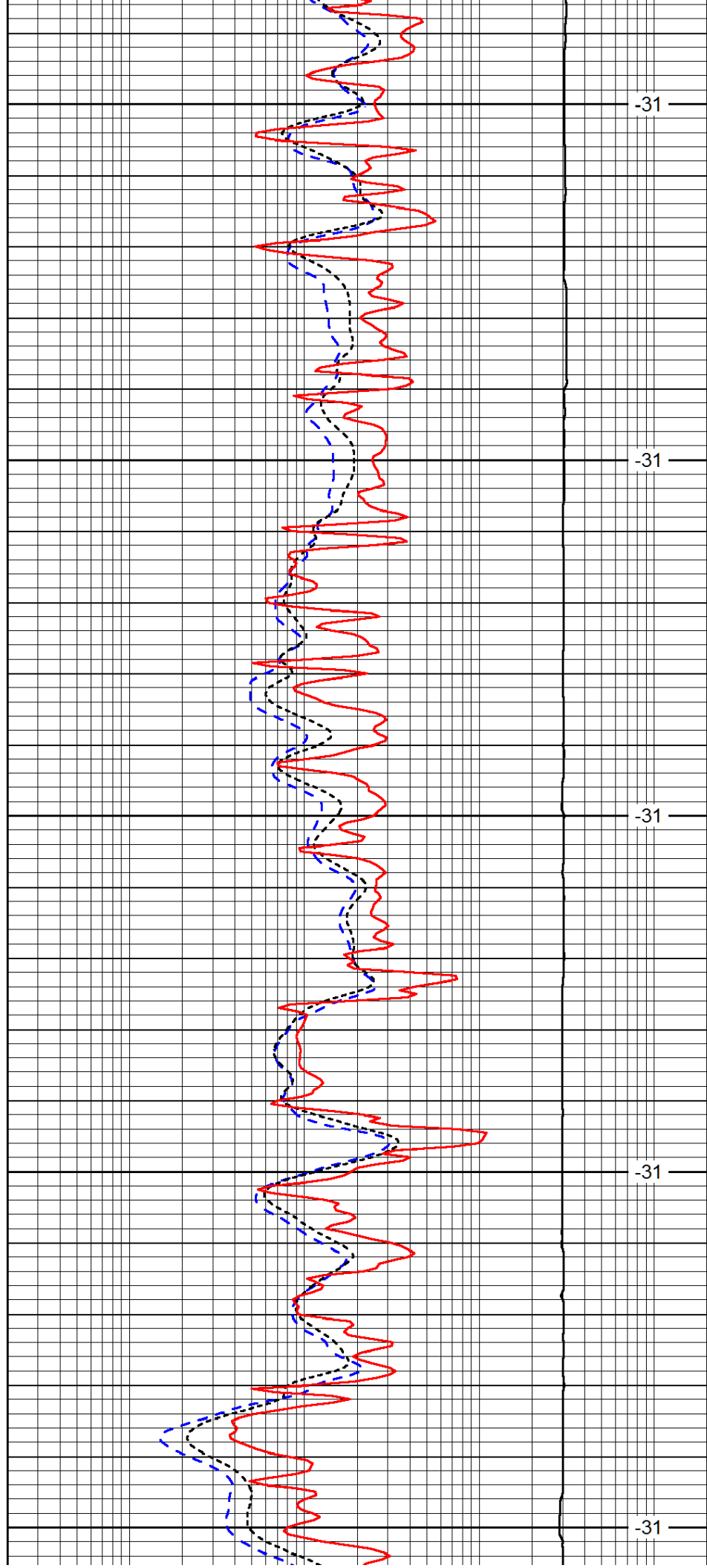
3750

3800

3850

3900

3950



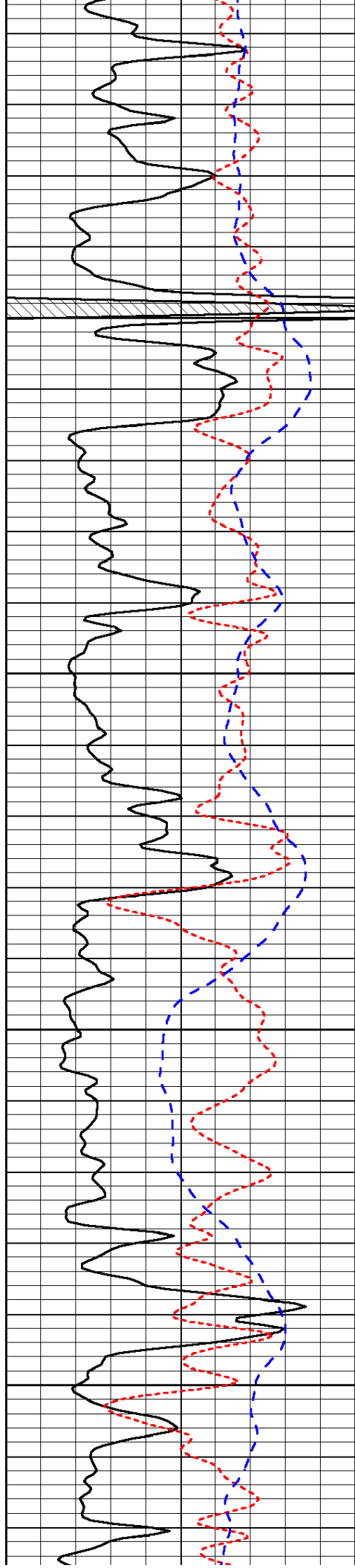
-31

-31

-31

-31

-31

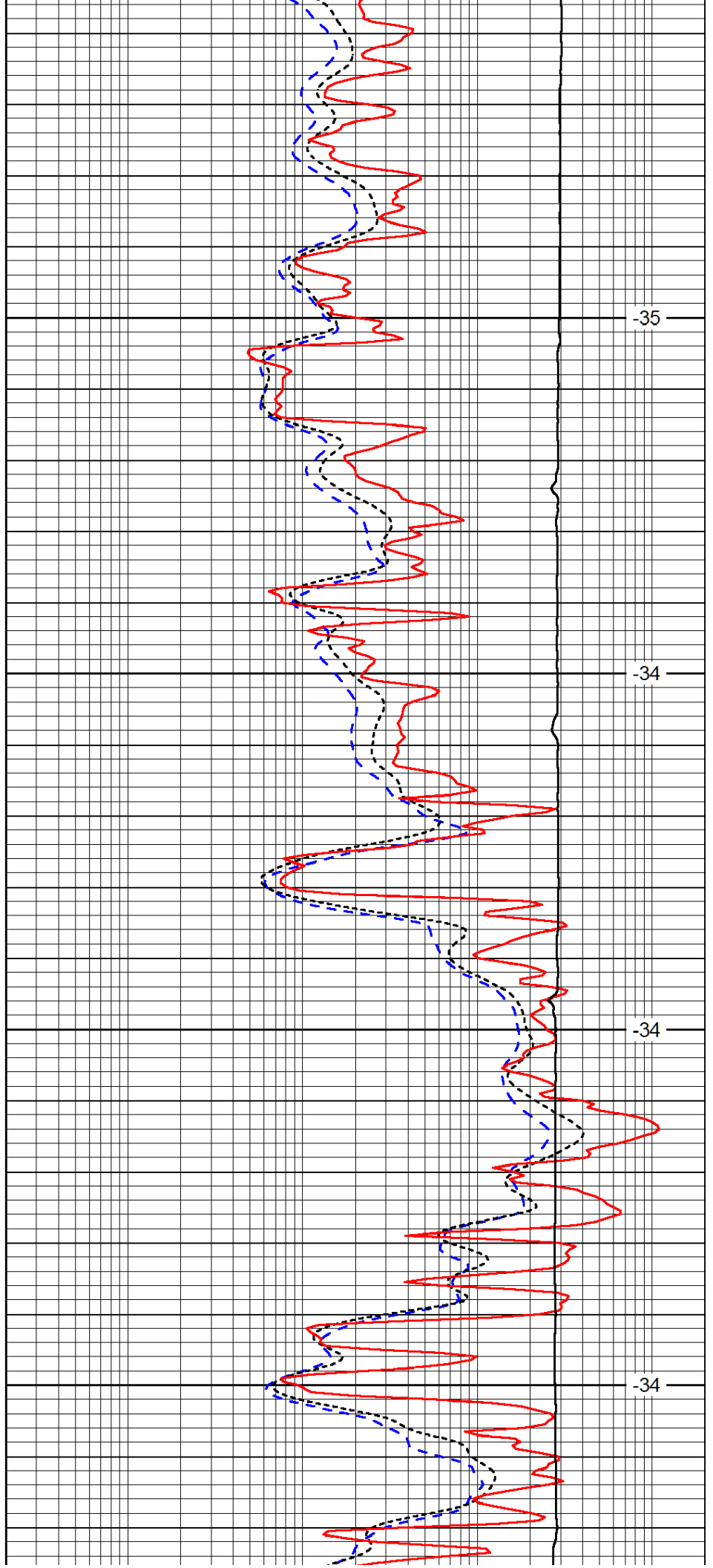


4000

4050

4100

4150

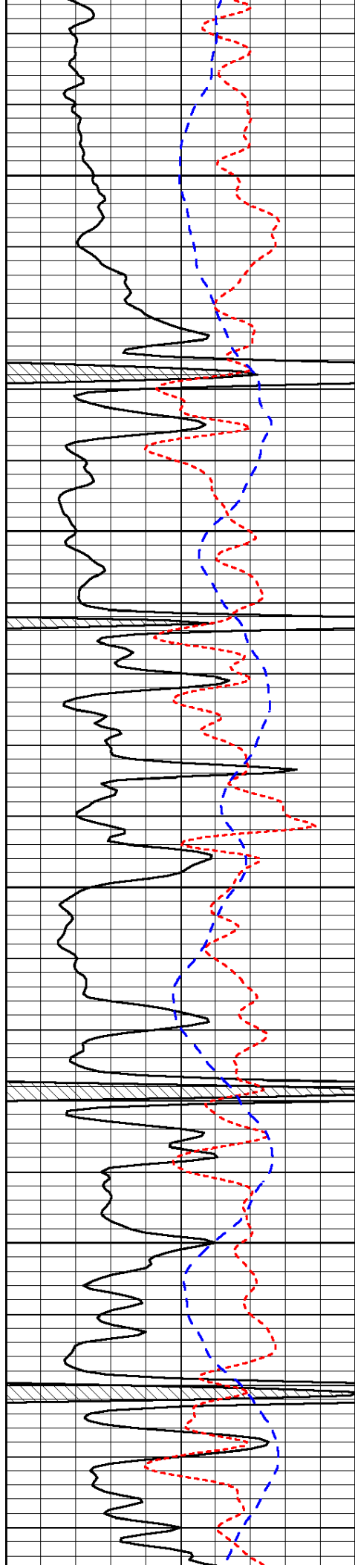


-35

-34

-34

-34

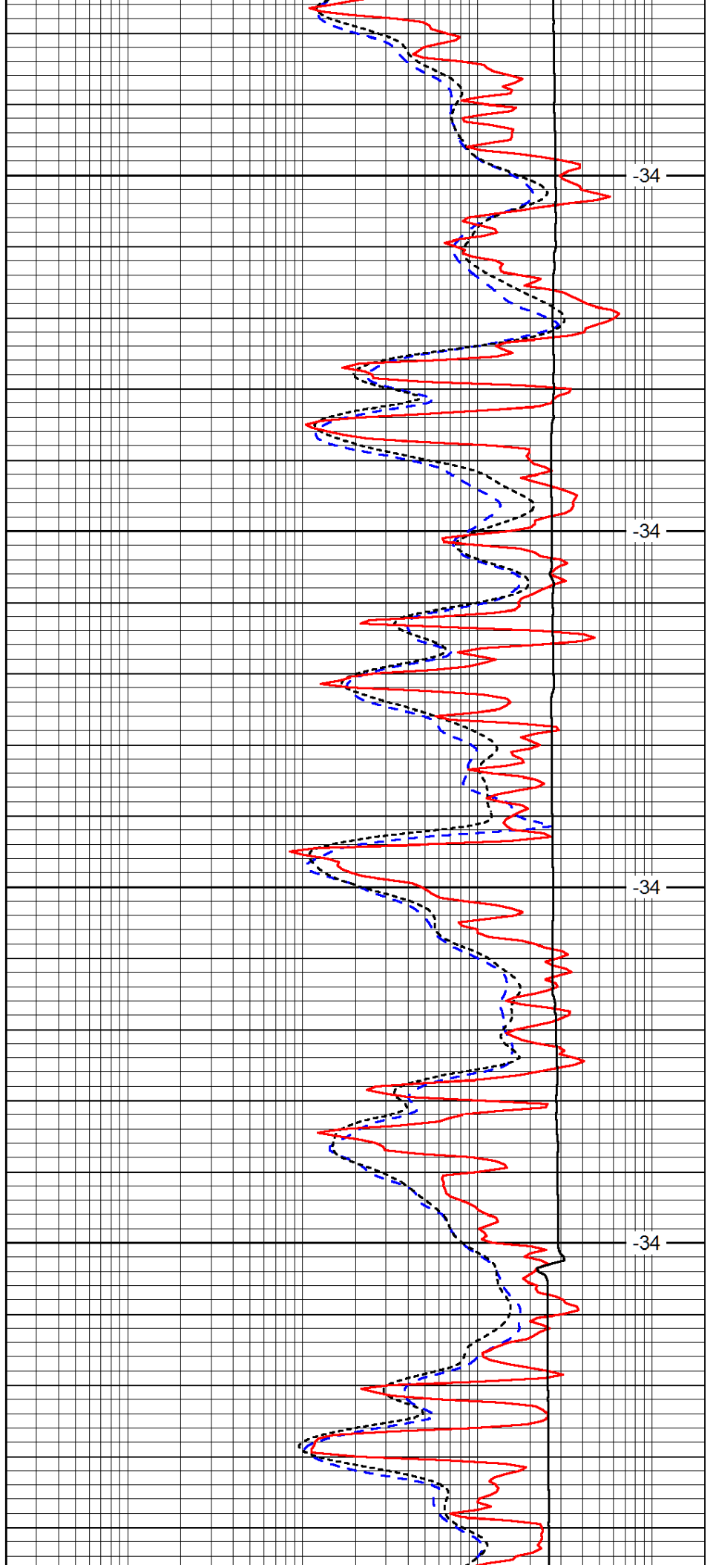


4200

4250

4300

4350

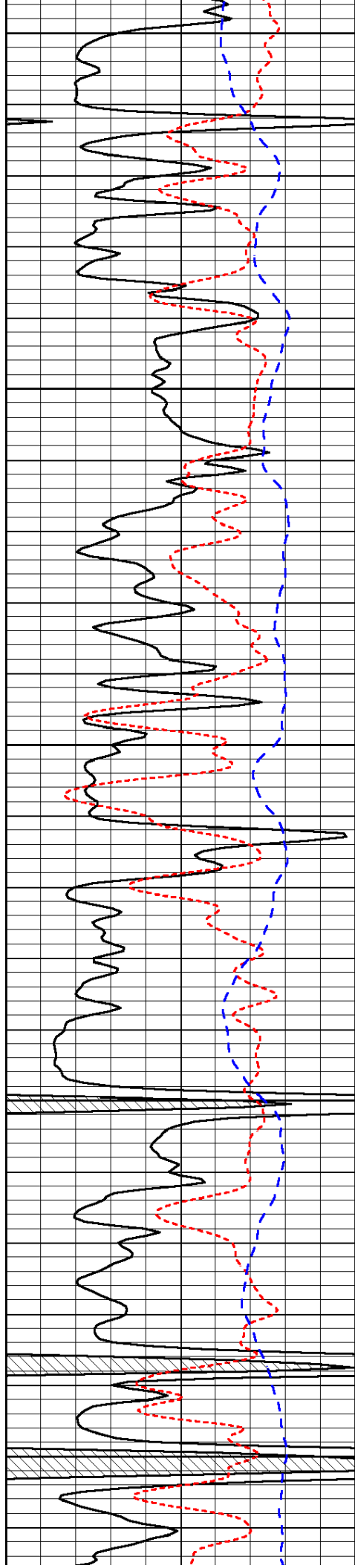


-34

-34

-34

-34



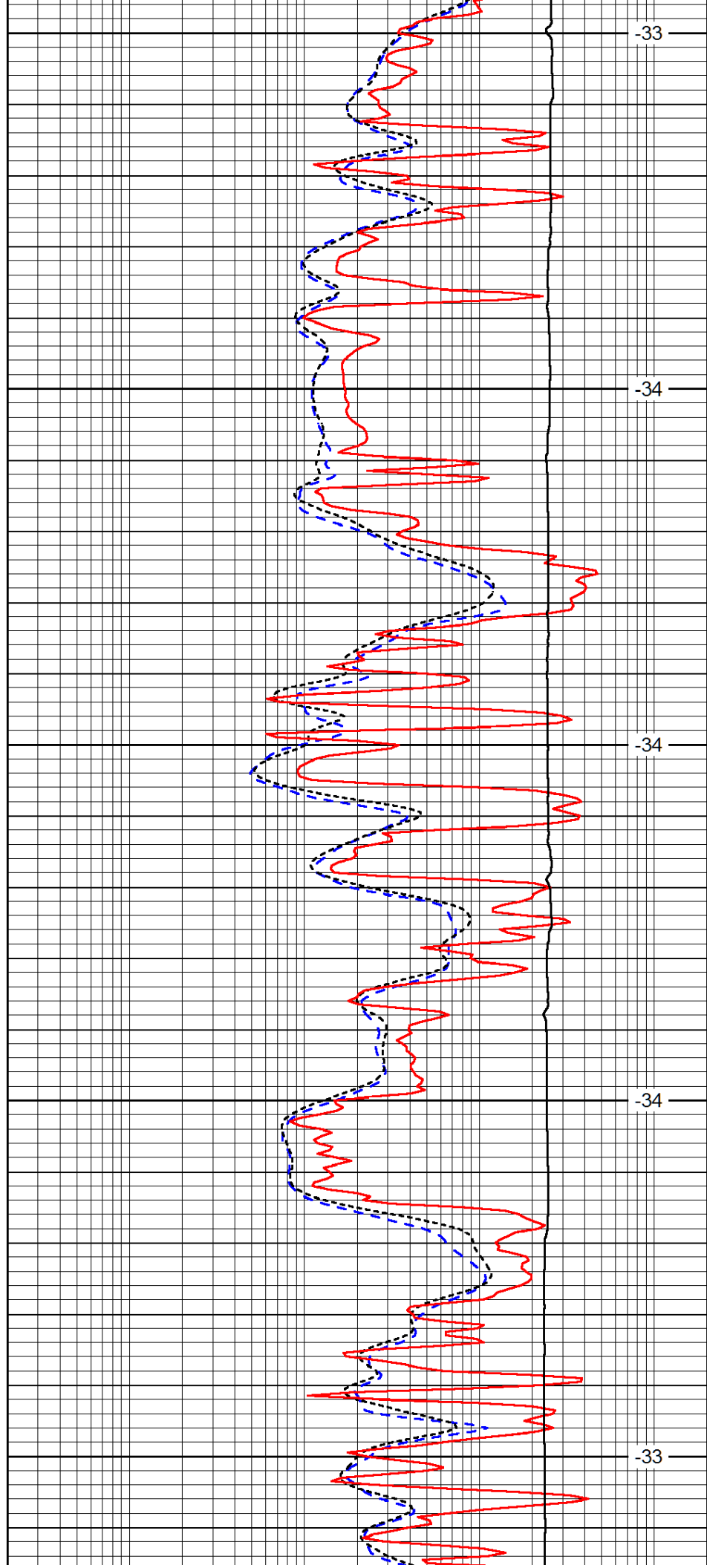
4400

4450

4500

4550

4600



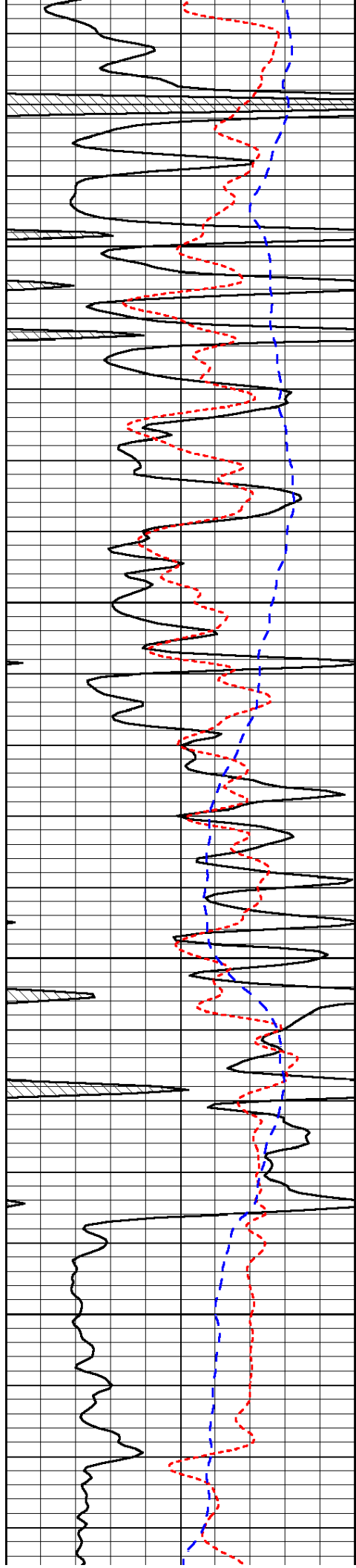
-33

-34

-34

-34

-33

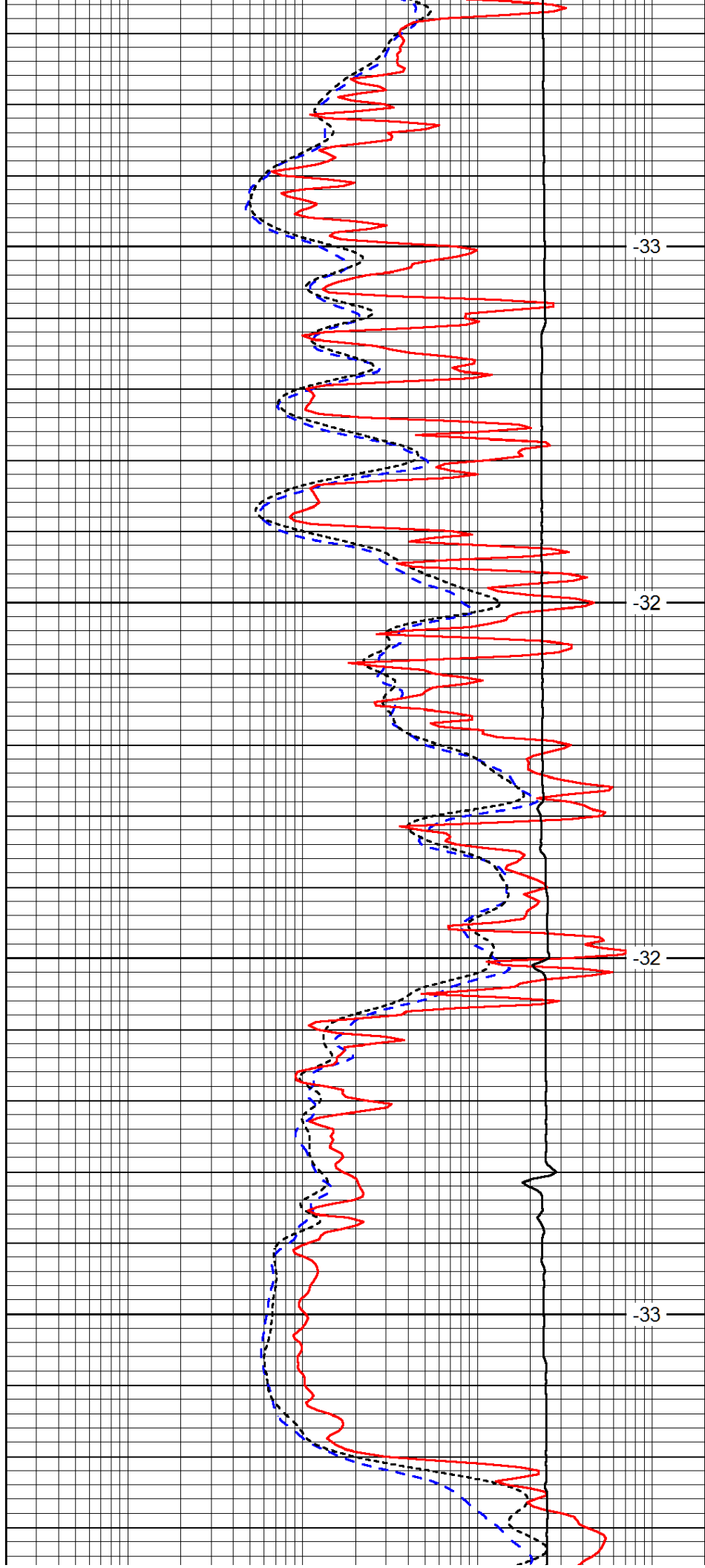


4650

4700

4750

4800

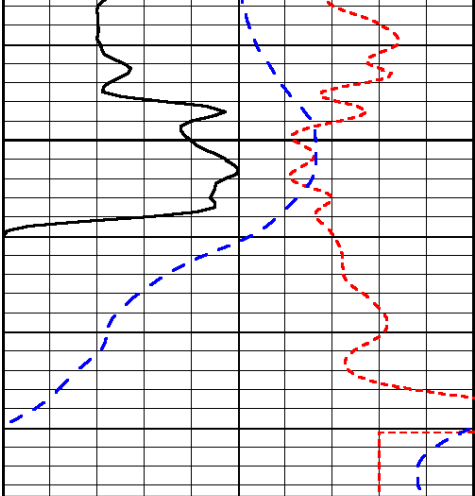


-33

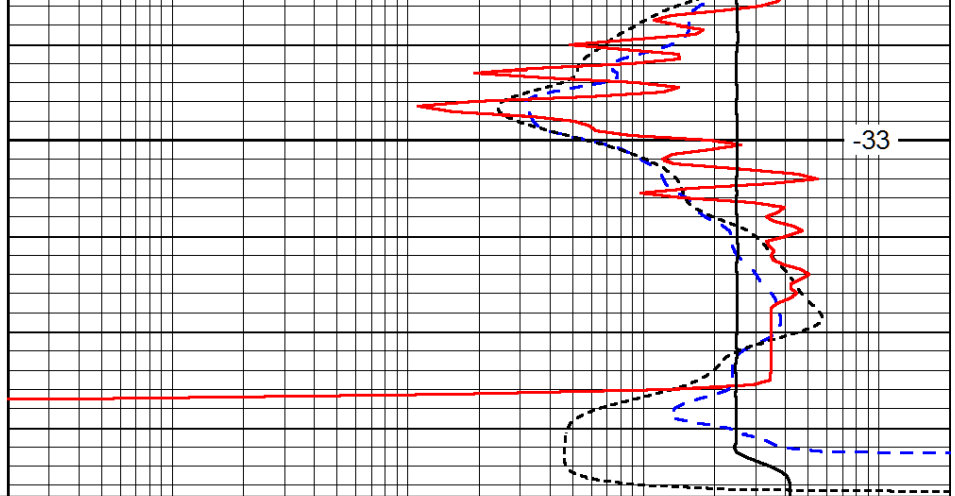
-32

-32

-33



4850



-33

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)