



Dual Induction Log

Pioneer Energy Services

API No.

15-171-21,011-00-00

Company **Landmark Resources, Inc.**

Well **Janzen No. 1-1**

Field **Wildcat**

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

Location **SW-SE-SW-SE
100' FSL & 1870' FEL**

Sec: 1 Twp: 17S Rge: 34W

Other Services
CNL/CDL
MEI/BHCS

Permanent Datum **Ground Level** Elevation **3098**

Log Measured From **Kelly Bushing** 11 Ft. Above Perm. Datum

Drilling Measured From **Kelly Bushing**

Elevation
K.B. 3109
D.F. 3098
G.L. 3098

Date **12/22/13**

Run Number **One**

Depth Driller **4897**

Depth Logger **4902**

Bottom Logged Interval **4901**

Top Log Interval **250**

Casing Driller **8.625 @ 261**

Casing Logger **260**

Bit Size **7.875**

Type Fluid in Hole **Chemical**

Salinity,ppm CL **8,300**

Density / Viscosity **9.5 52**

pH / Fluid Loss **10.0 8.8**

Source of Sample **Flowline**

Rm @ Meas. Temp **.18 @ 53**

Rmf @ Meas. Temp **.14 @ 53**

Rmc @ Meas. Temp **.24 @ 53**

Source of Rmf / Rmc **Charts**

Rm @ BHT **.08 @ 125**

Operating Rig Time **5 Hours**

Max Rec. Temp. F **125**

Equipment Number **15**

Location **Hays**

Recorded By **J. Henrickson**

Witnessed By **Wes Hansen**

<<< Fold Here >>>

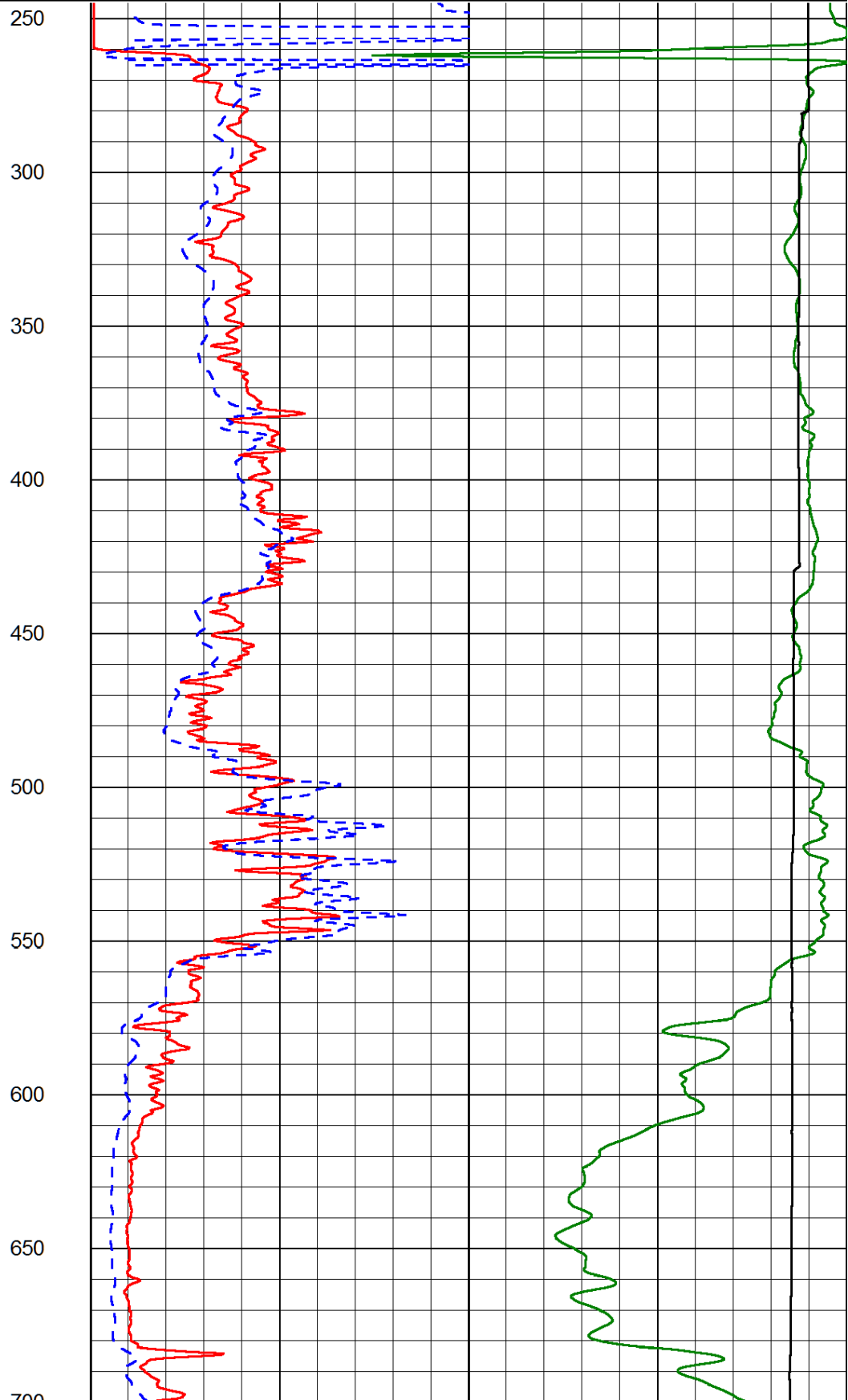
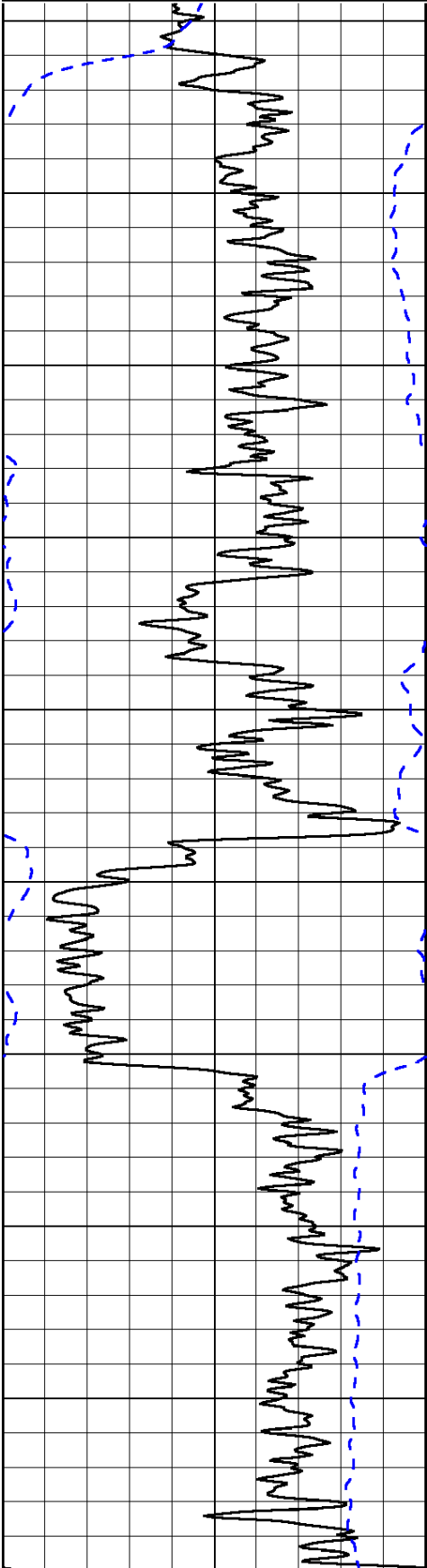
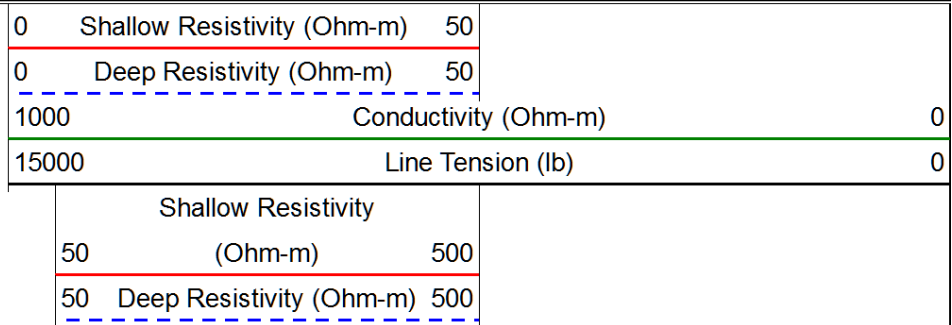
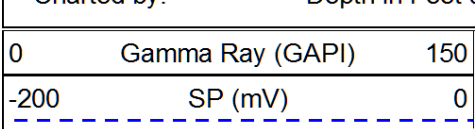
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

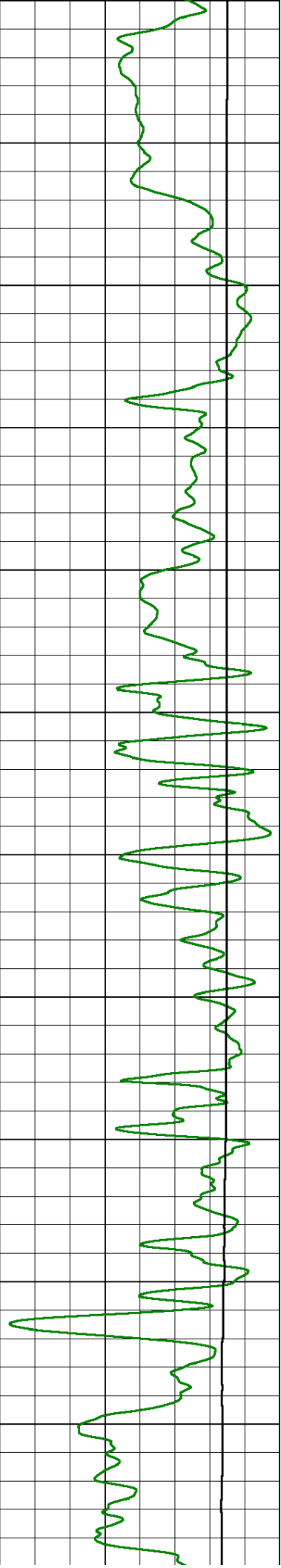
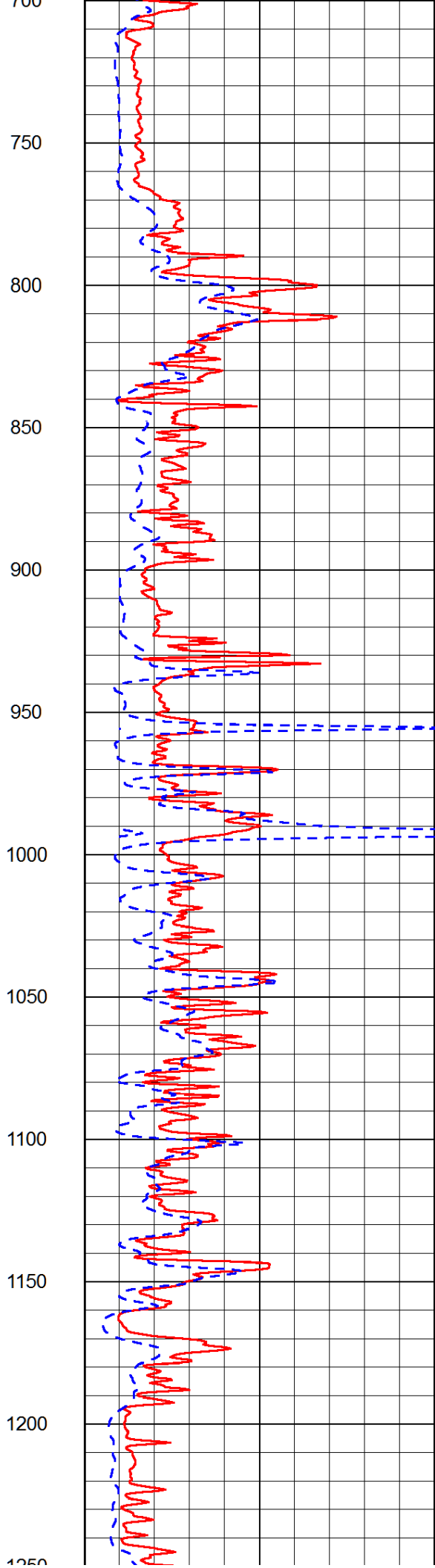
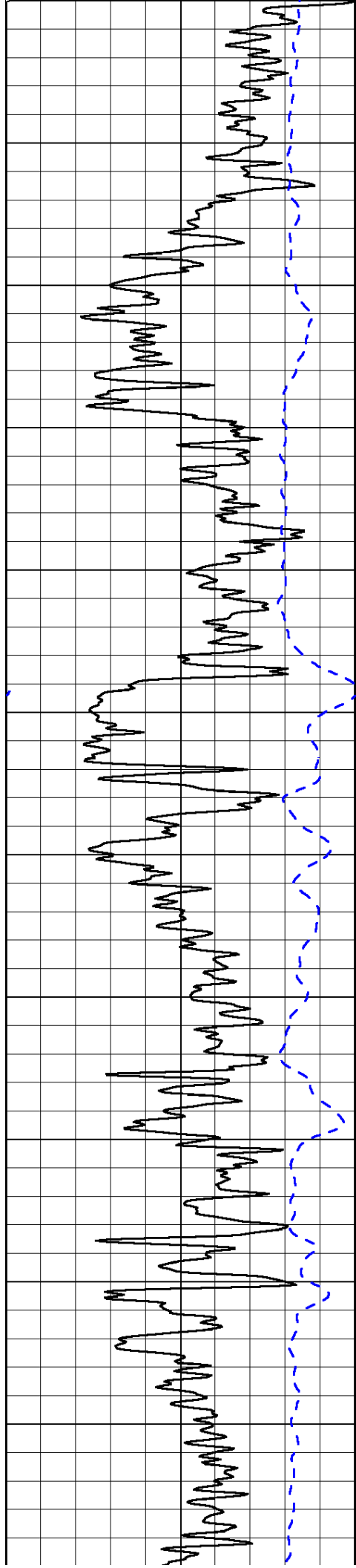
Comments

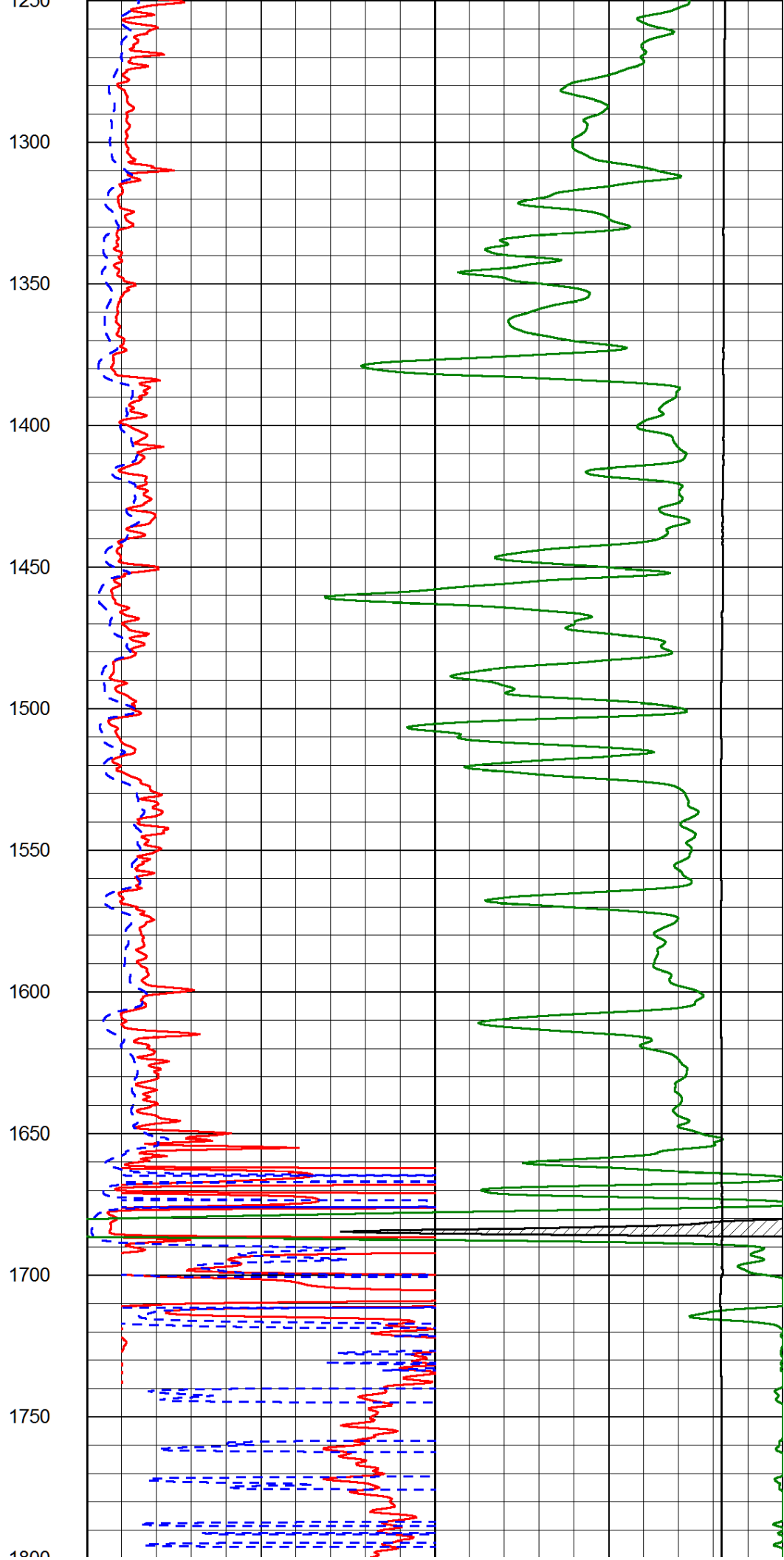
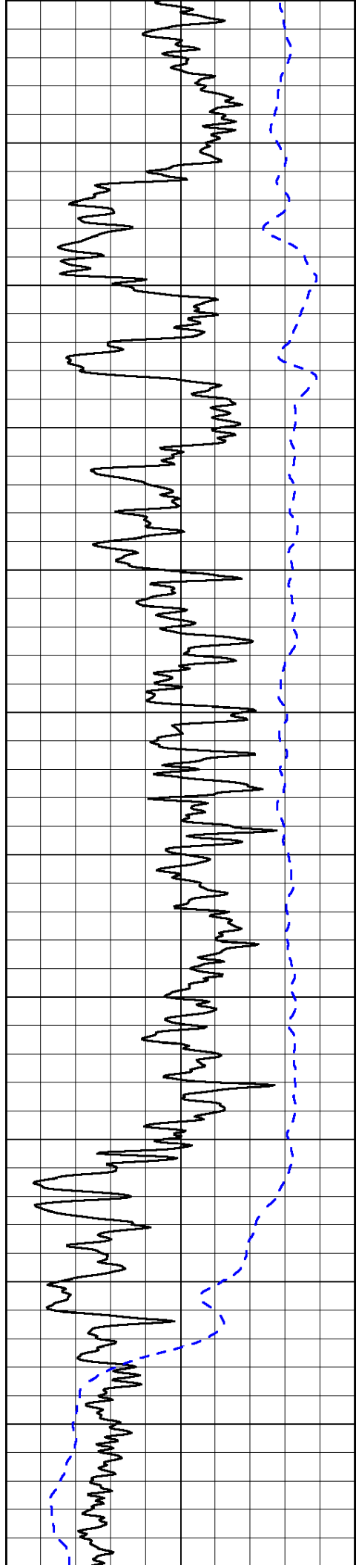
Thank you for using Log-Tech, Inc.
(785) 625-3858

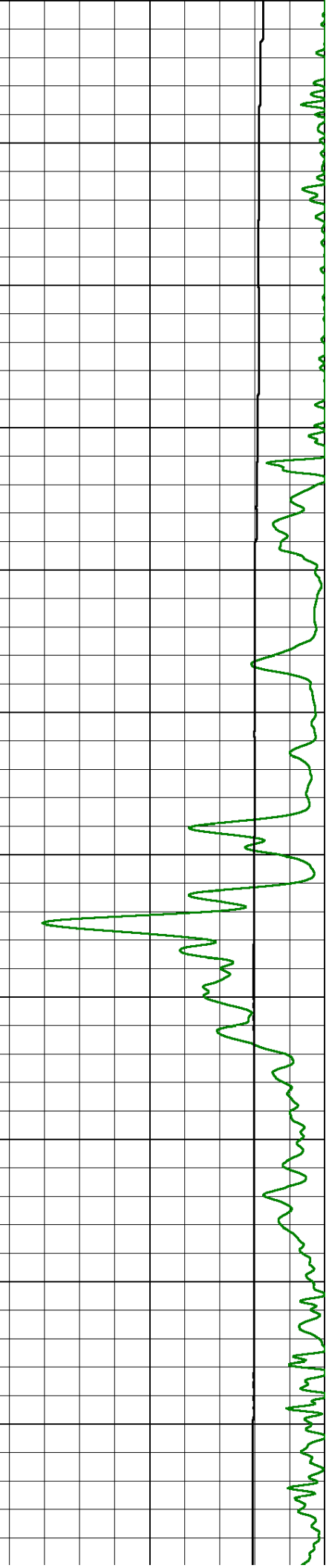
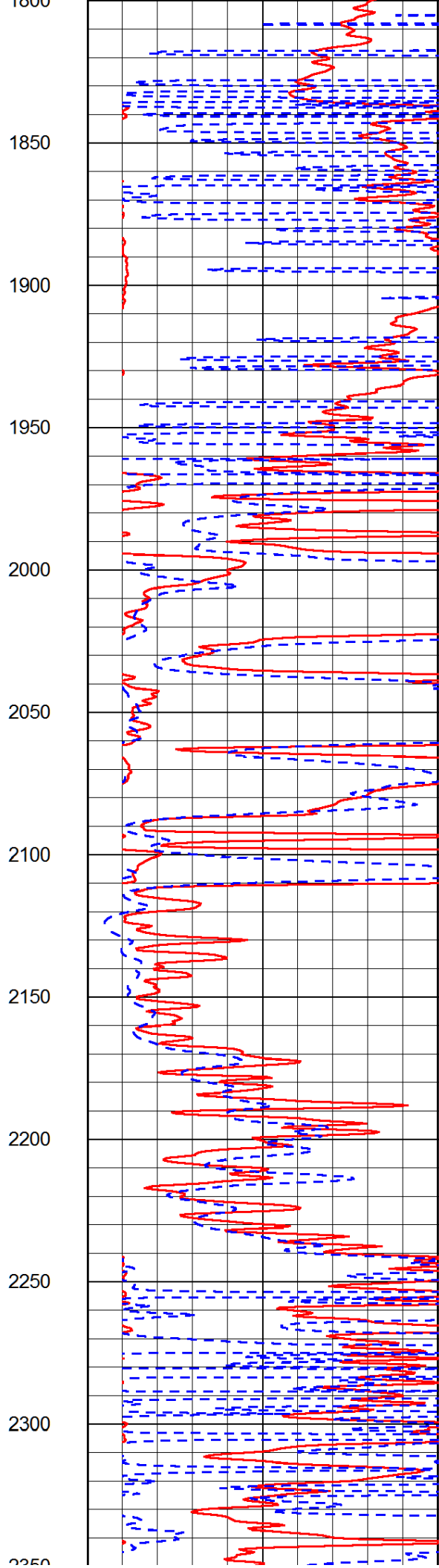
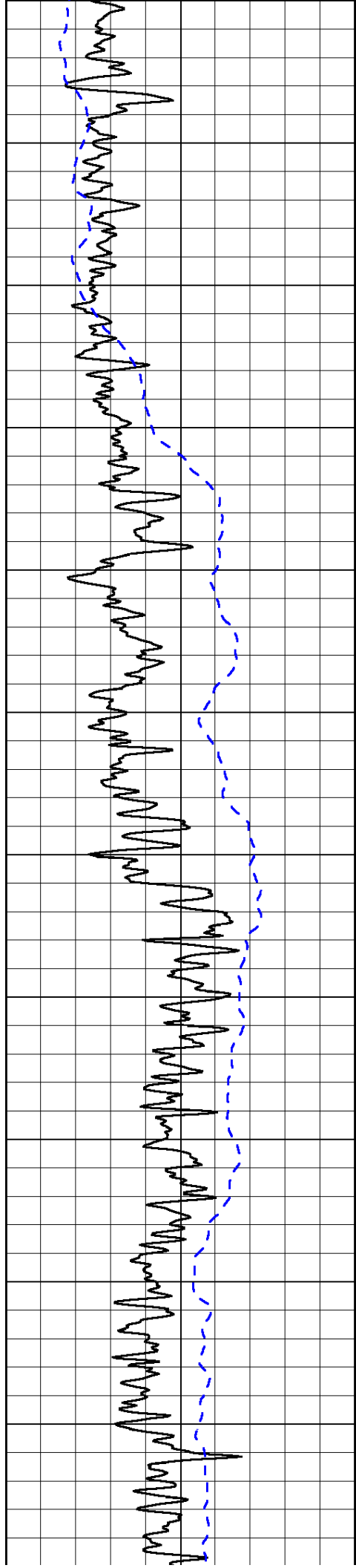
Oakley Kansas
South to HWY 83 & Hwy 4 Intersection, 6 1/2 West, North Into

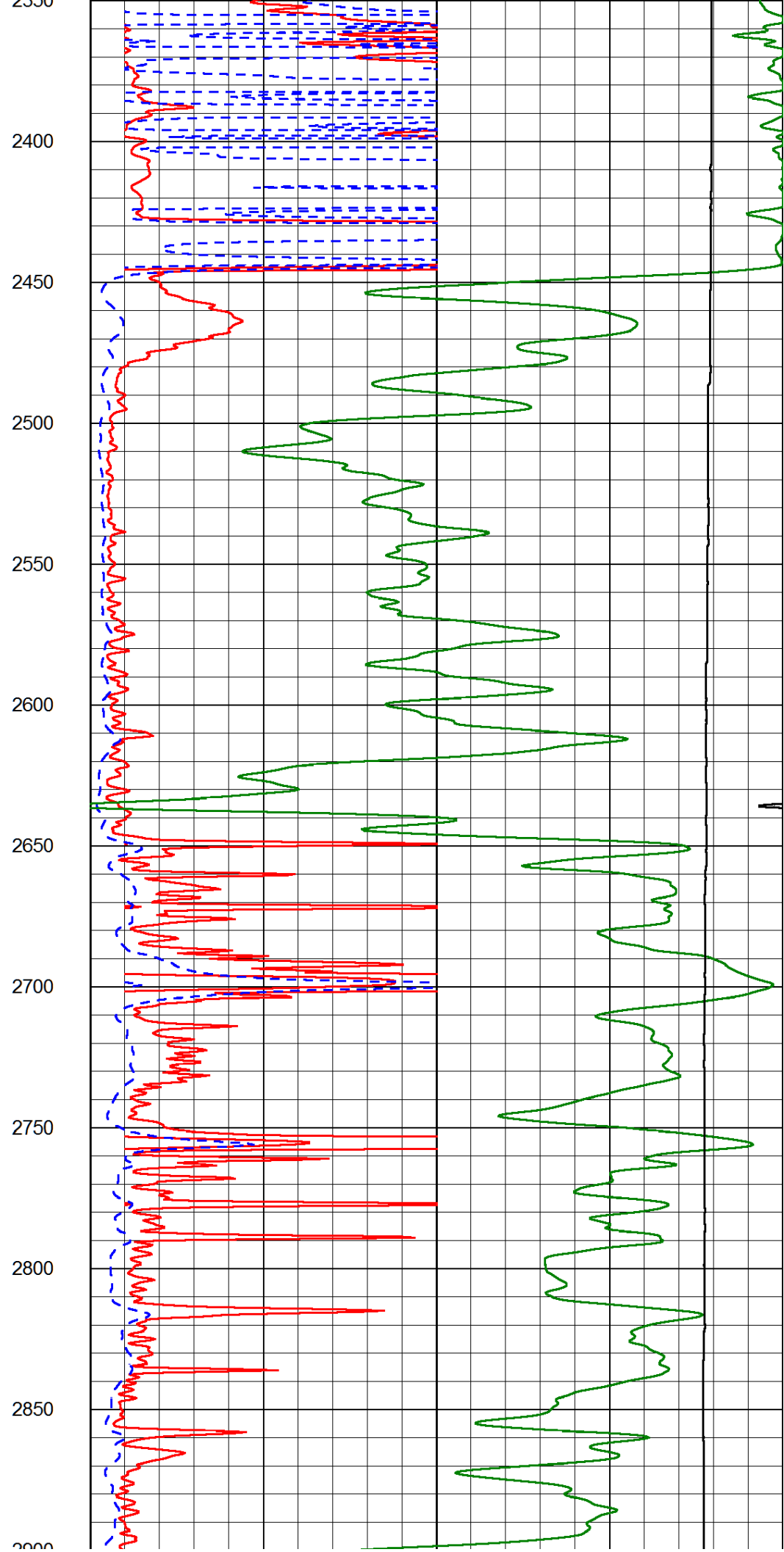
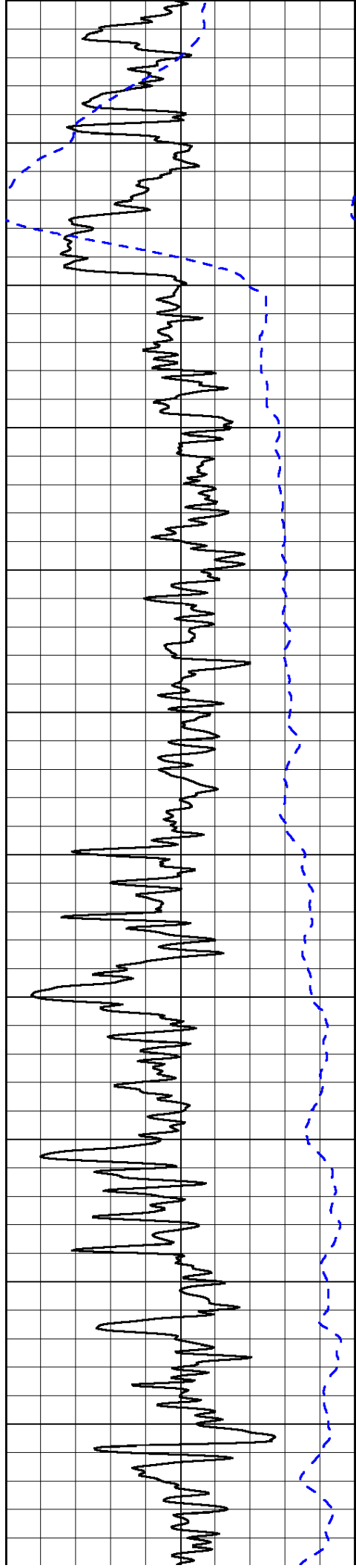
Database File: landmark_janzen_1_1hd.db
Dataset Pathname: DIL/landstk
Presentation Format: dil2in
Dataset Creation: Sun Dec 22 12:56:11 2013
Charted by: Depth in Feet scaled 1:600

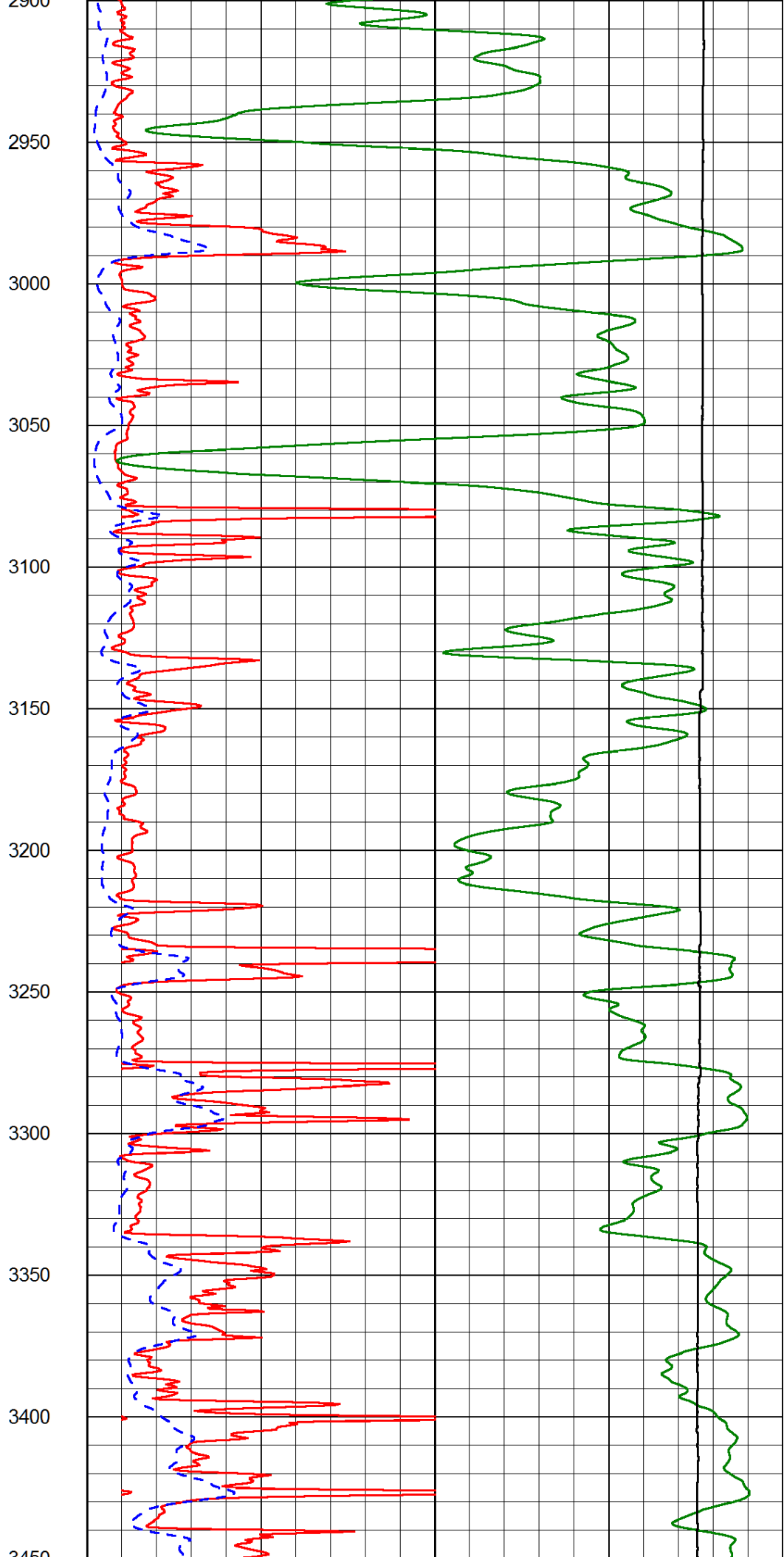
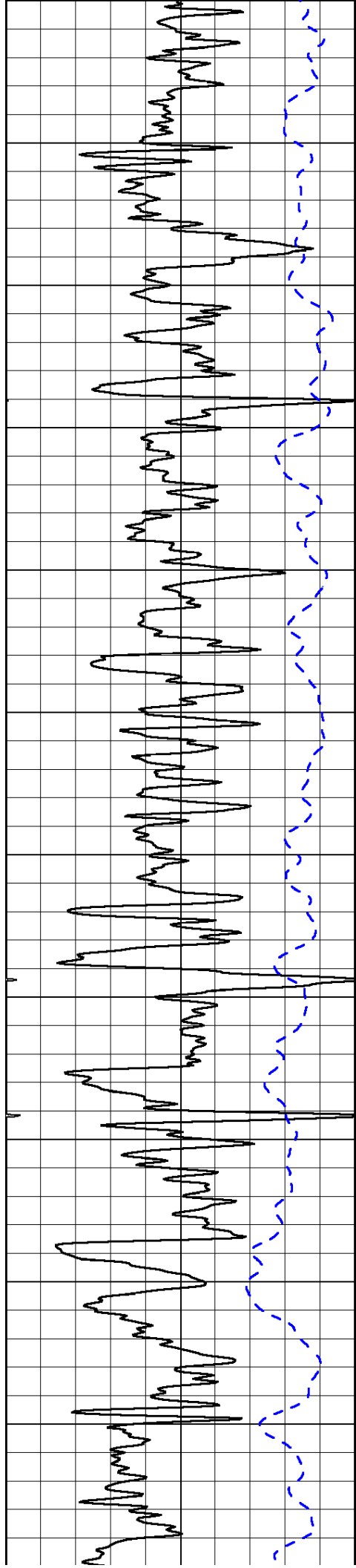


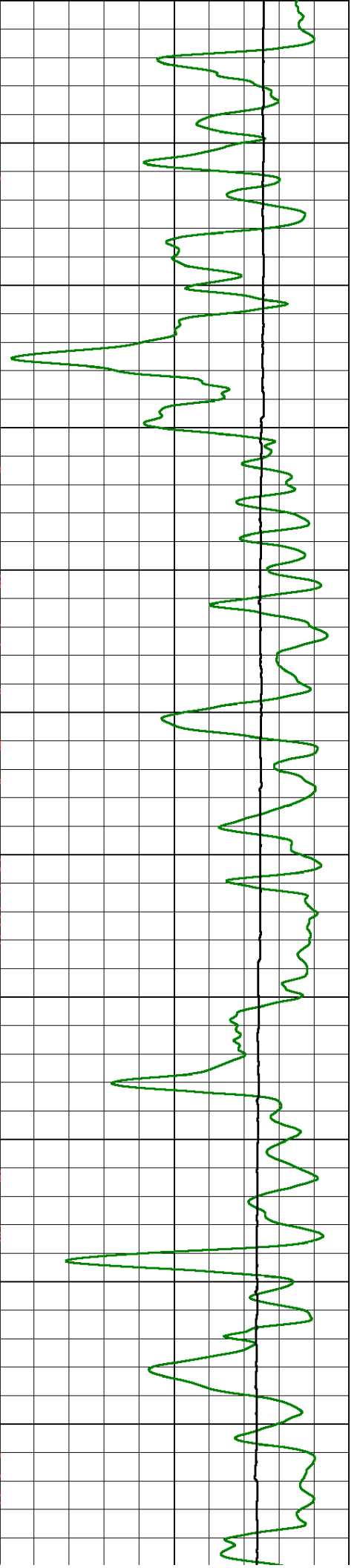
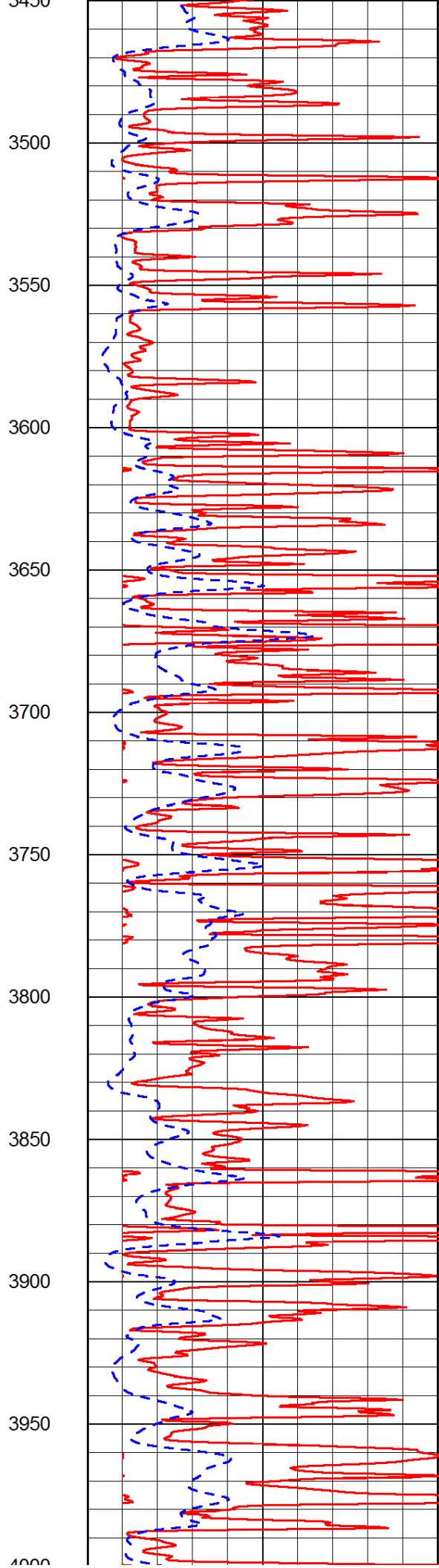
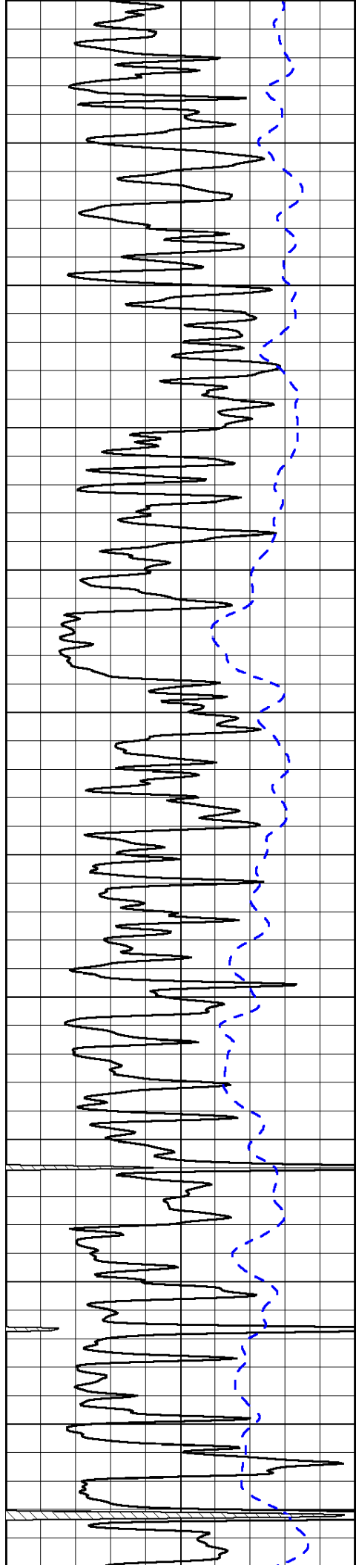


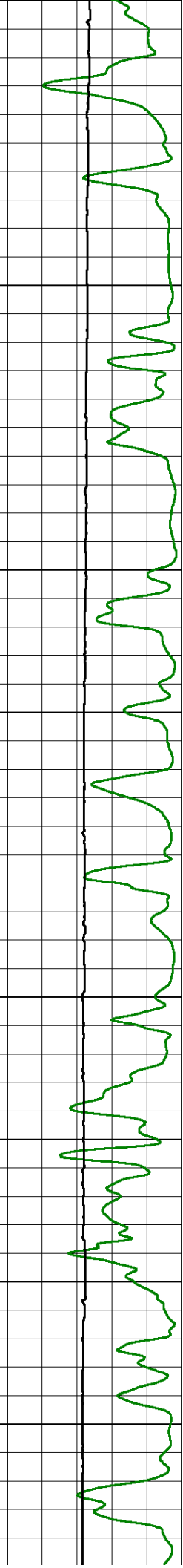
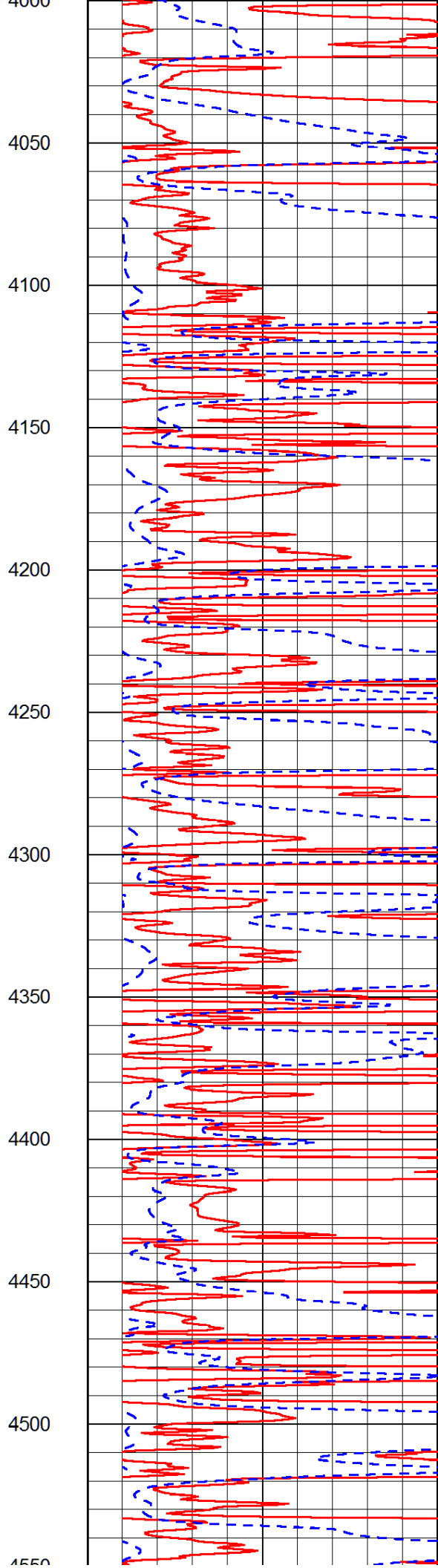
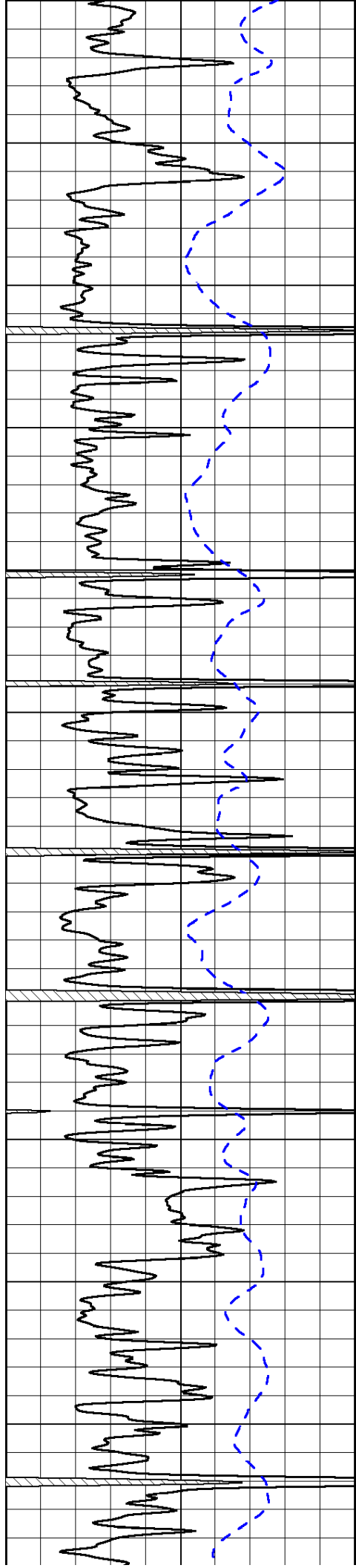


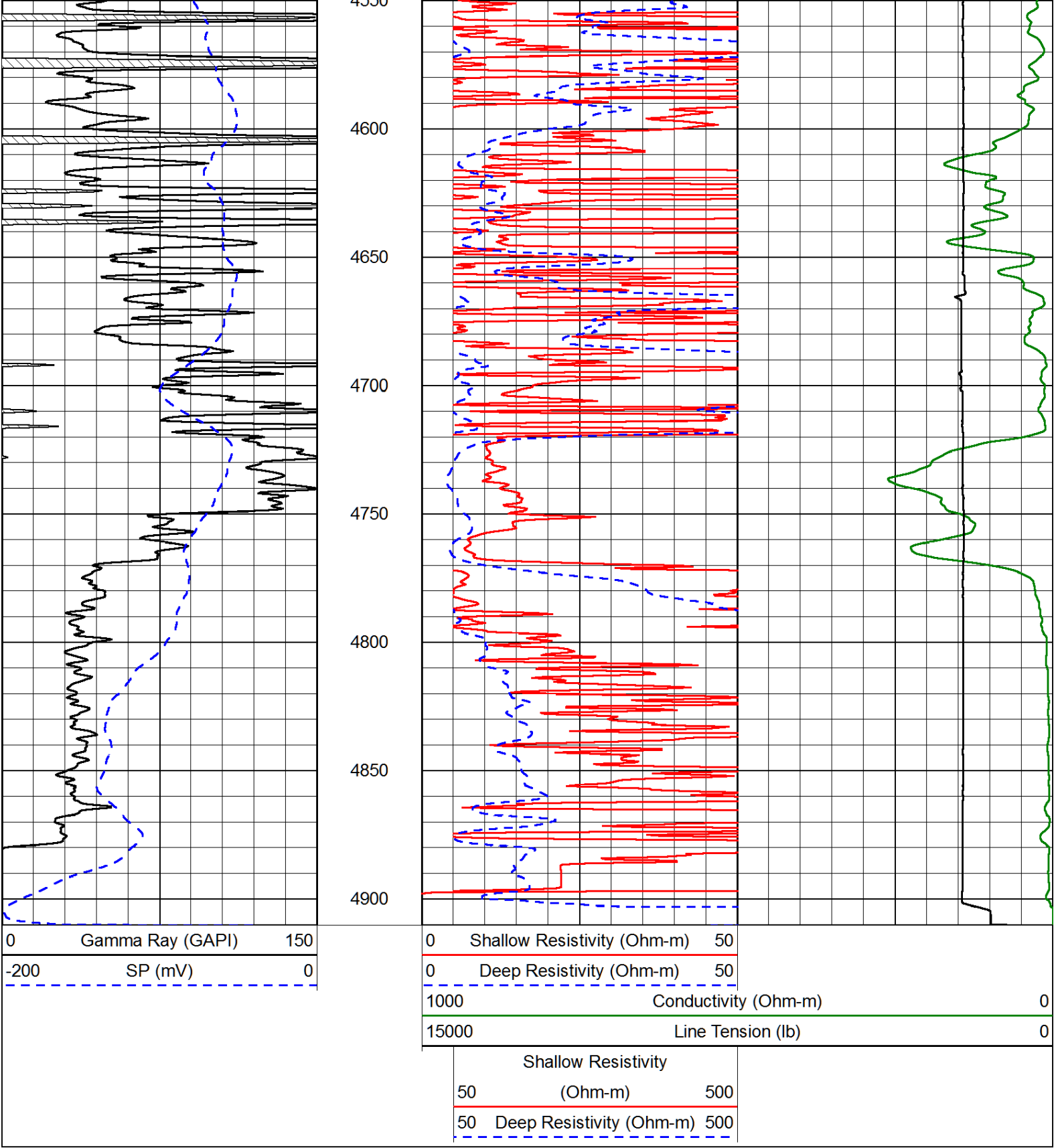




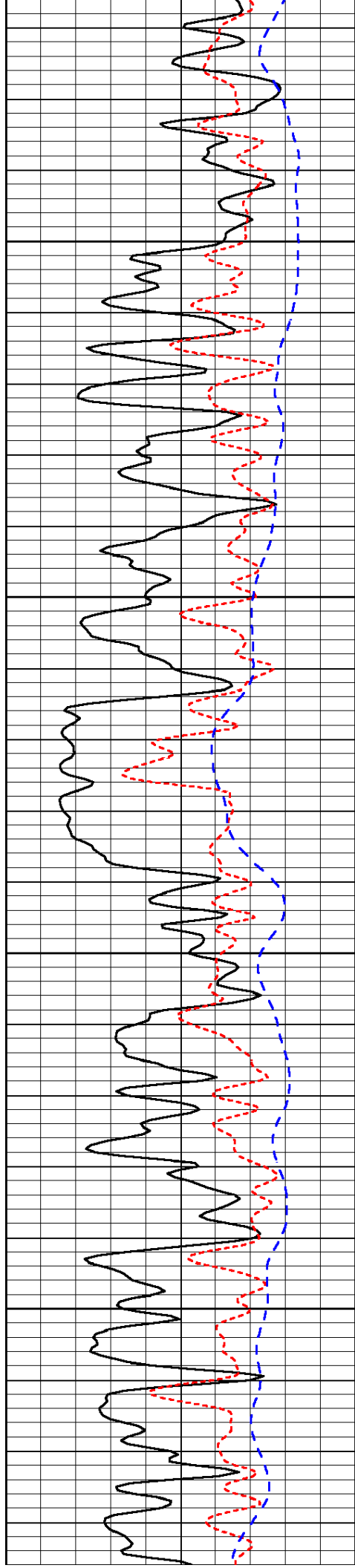








Database File:		landmark_janzen_1_1hd.db			
Dataset Pathname:		DIL/landstk			
Presentation Format:		dil			
Dataset Creation:		Sun Dec 22 12:56:11 2013			
Charted by:		Depth in Feet scaled 1:240			
0	Gamma Ray (GAPI)	150	0.2	Deep Resistivity (Ohm-m)	2000
-160	RXO/RT	40	0.2	Medium Resistivity (Ohm-m)	2000
-200	SP (mV)	0	0.2	Shallow Resistivity (Ohm-m)	2000
			10000	Line Tension (lb)	0

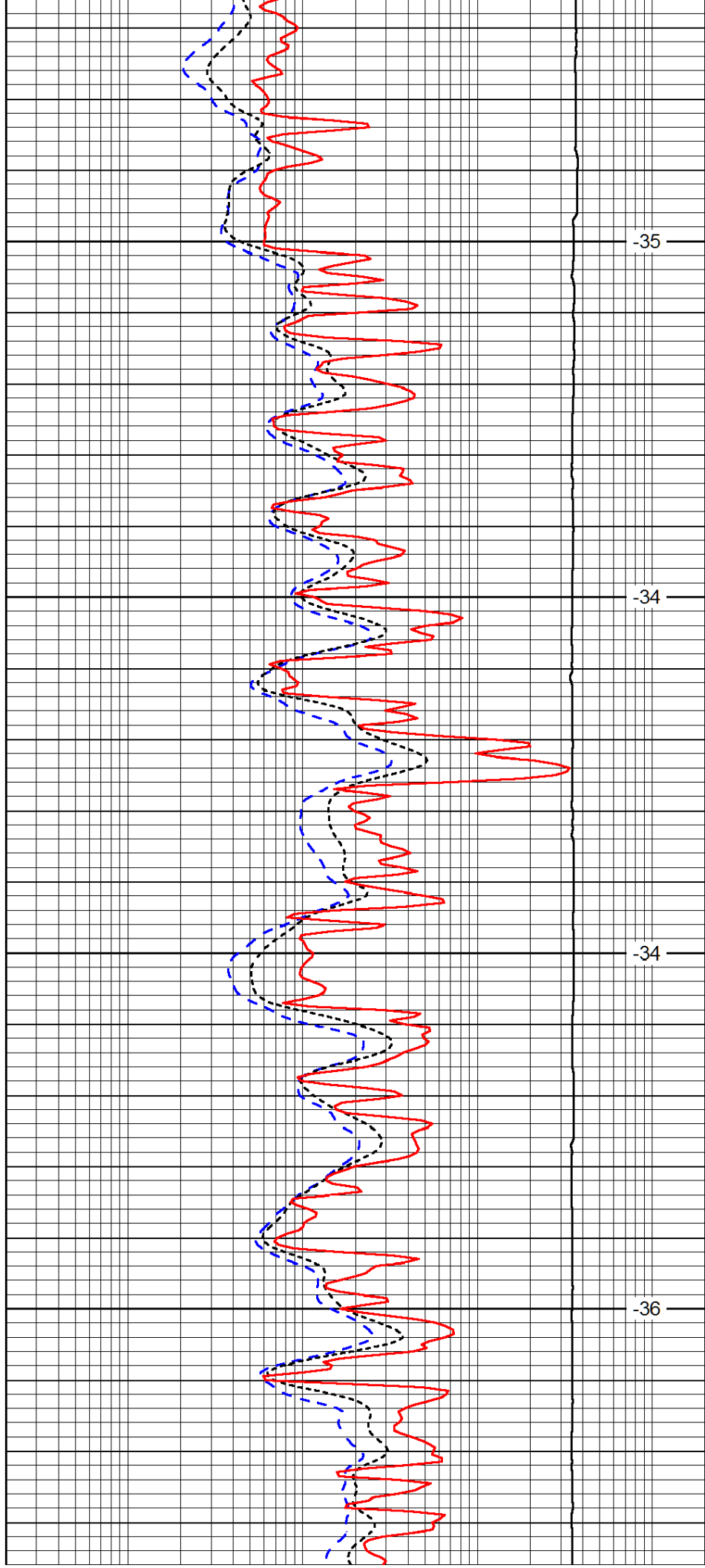


3600

3650

3700

3750

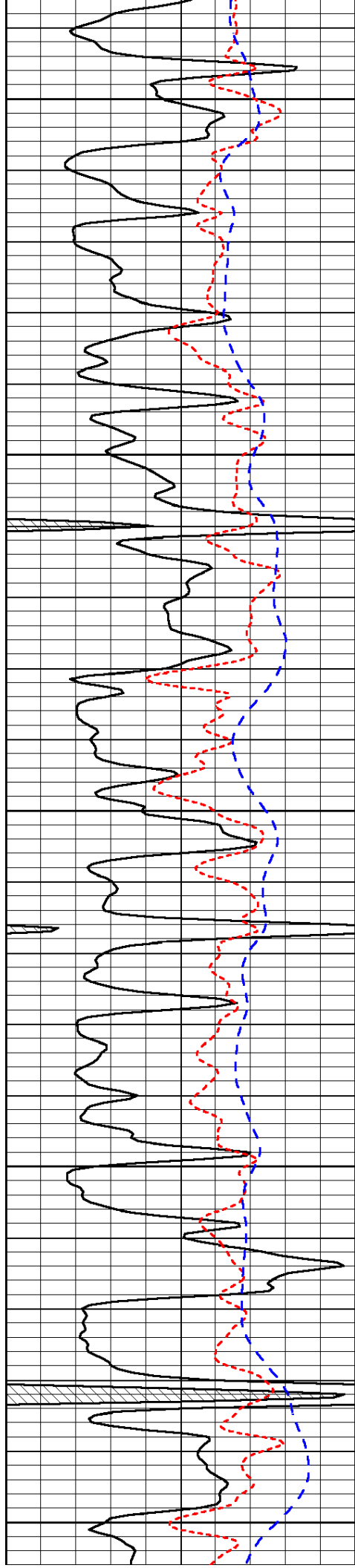


-35

-34

-34

-36



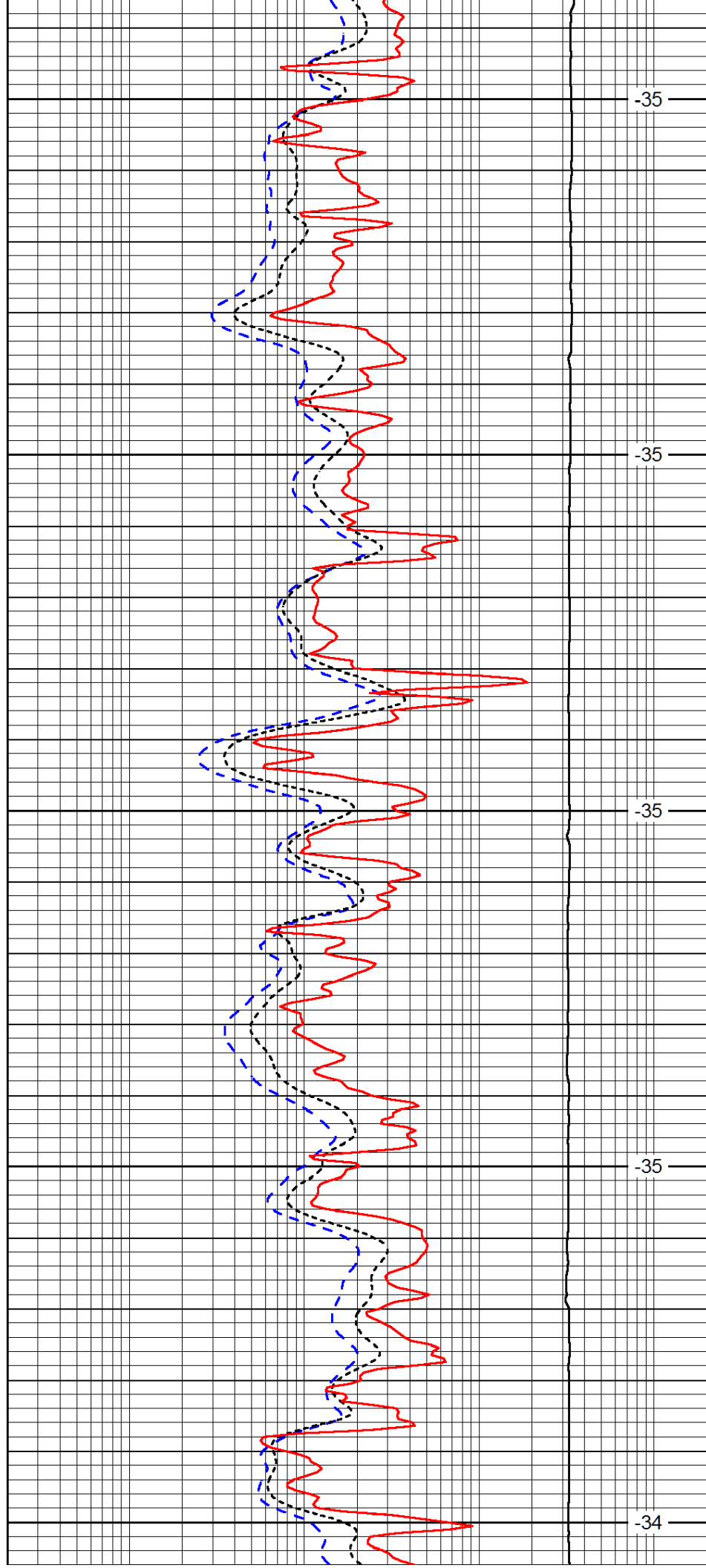
3800

3850

3900

3950

4000



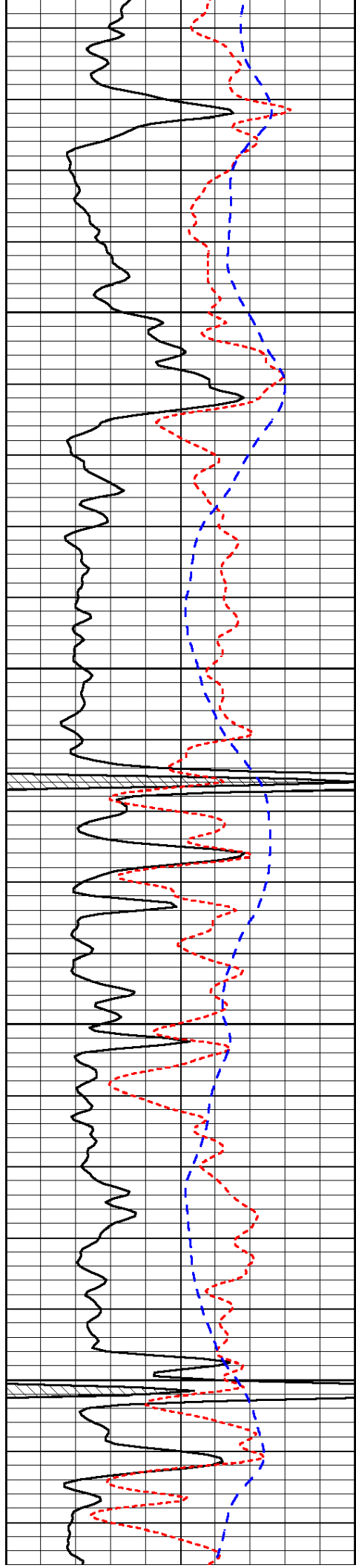
-35

-35

-35

-35

-34

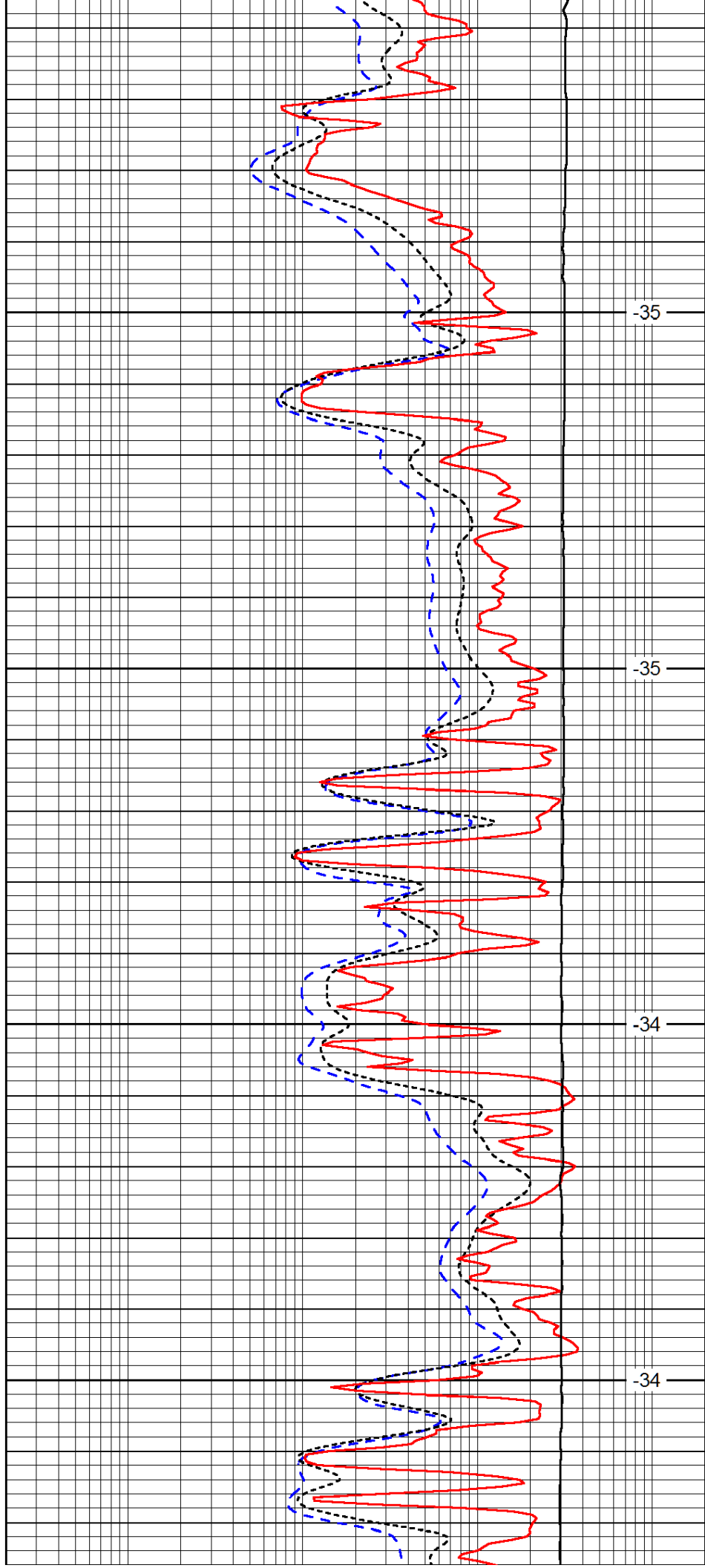


4050

4100

4150

4200

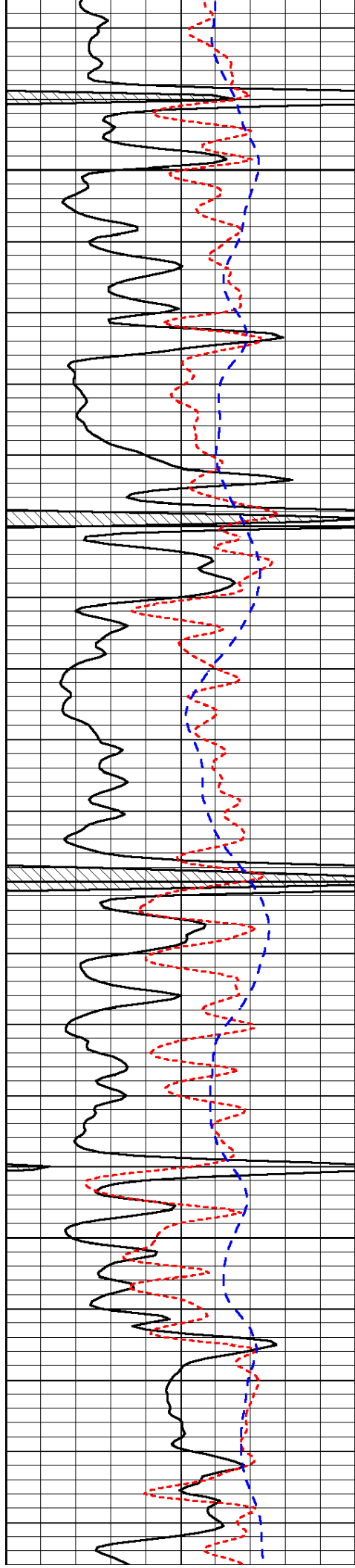


-35

-35

-34

-34

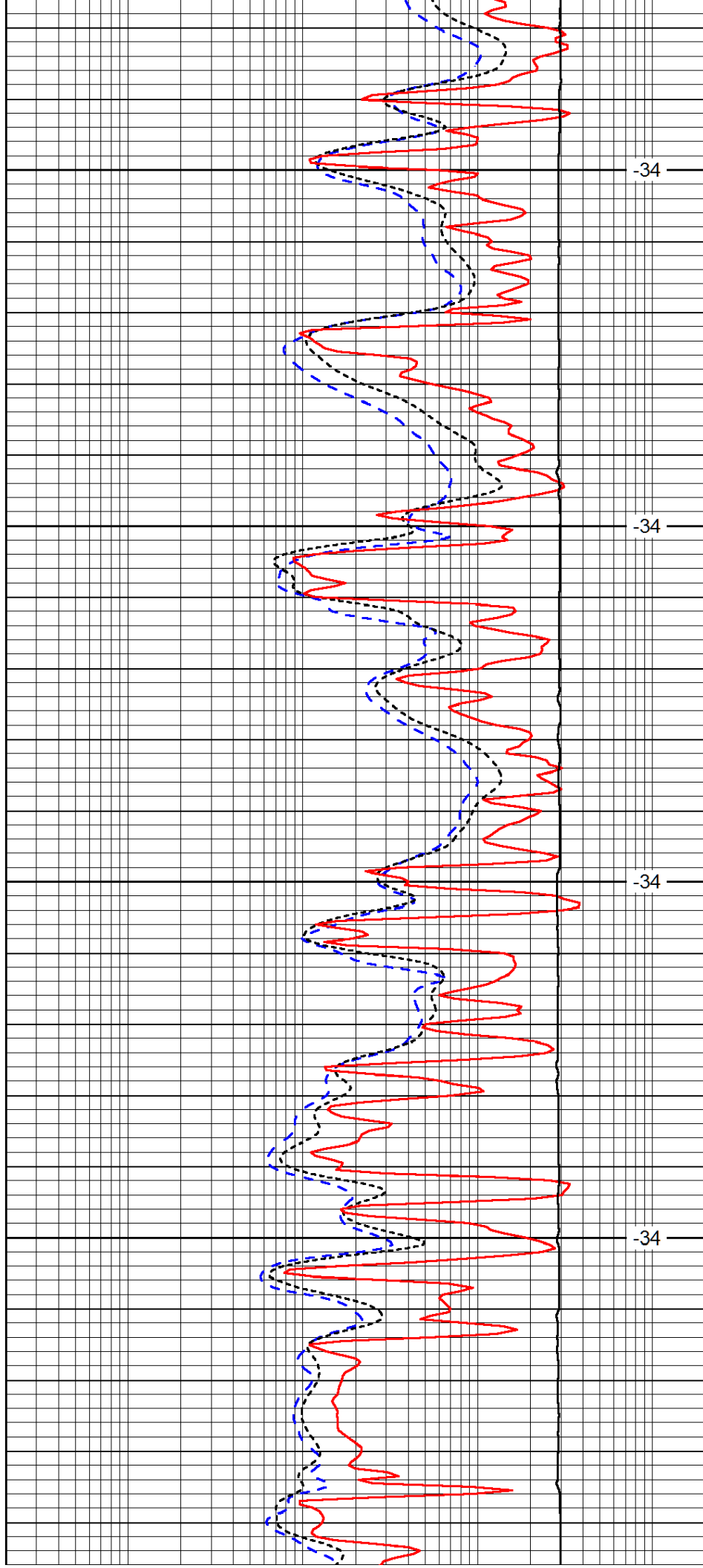


4250

4300

4350

4400

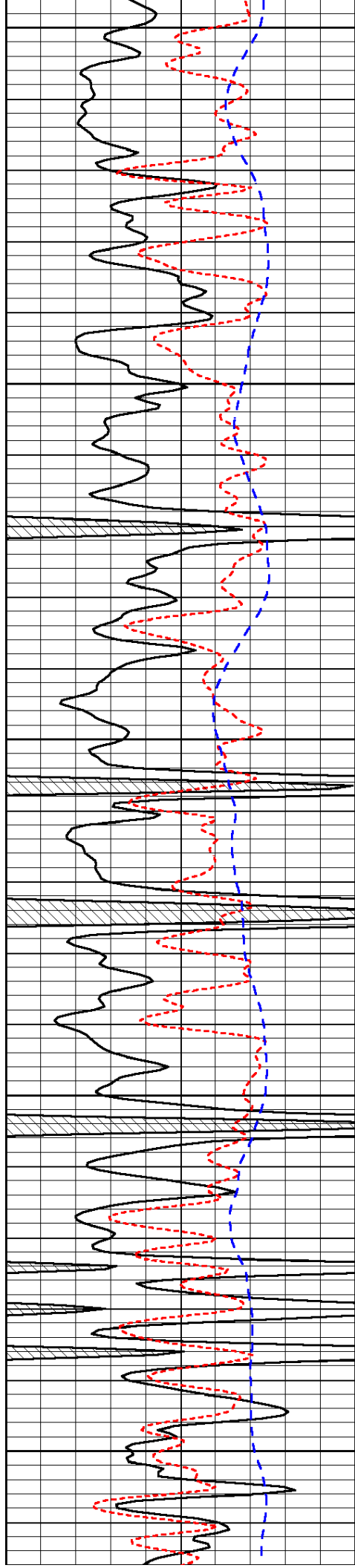


-34

-34

-34

-34



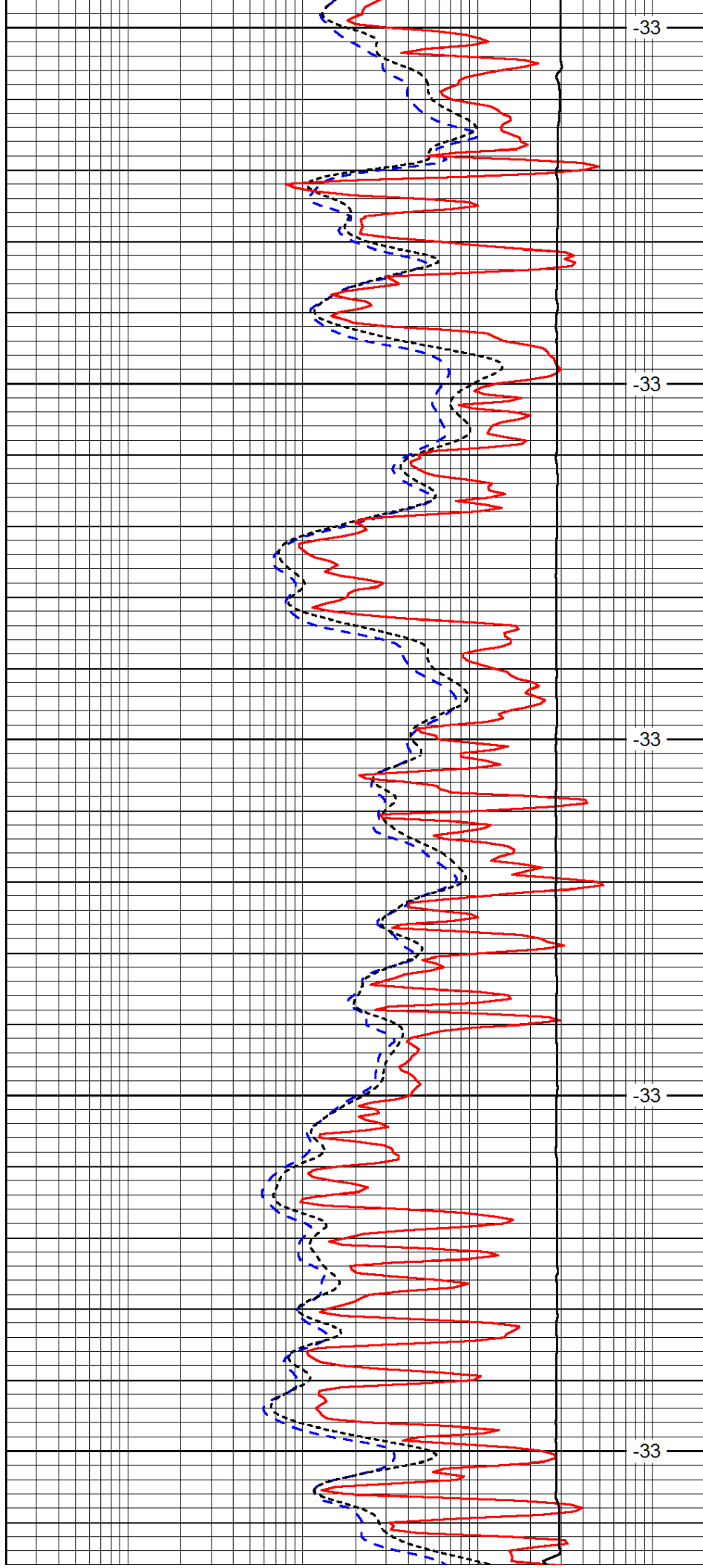
4450

4500

4550

4600

4650



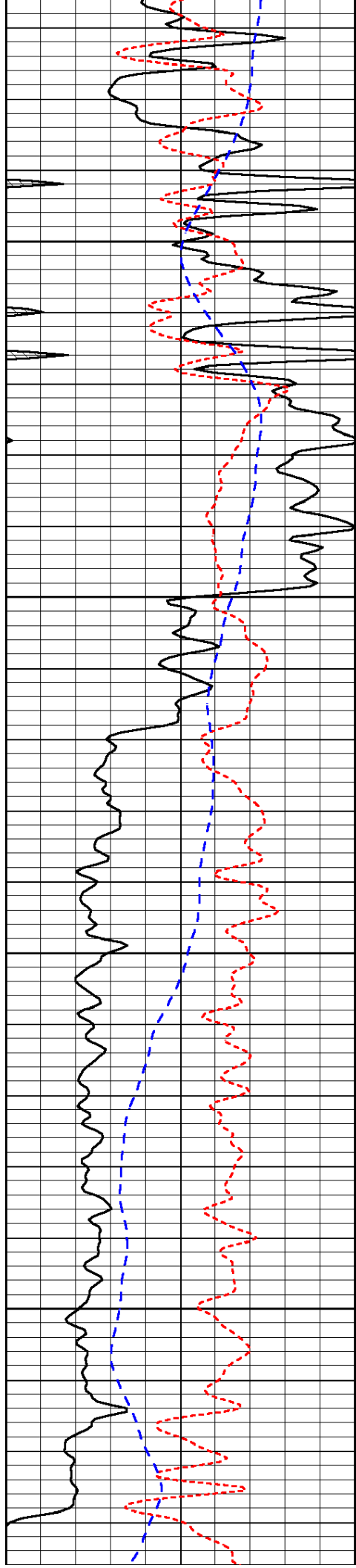
-33

-33

-33

-33

-33

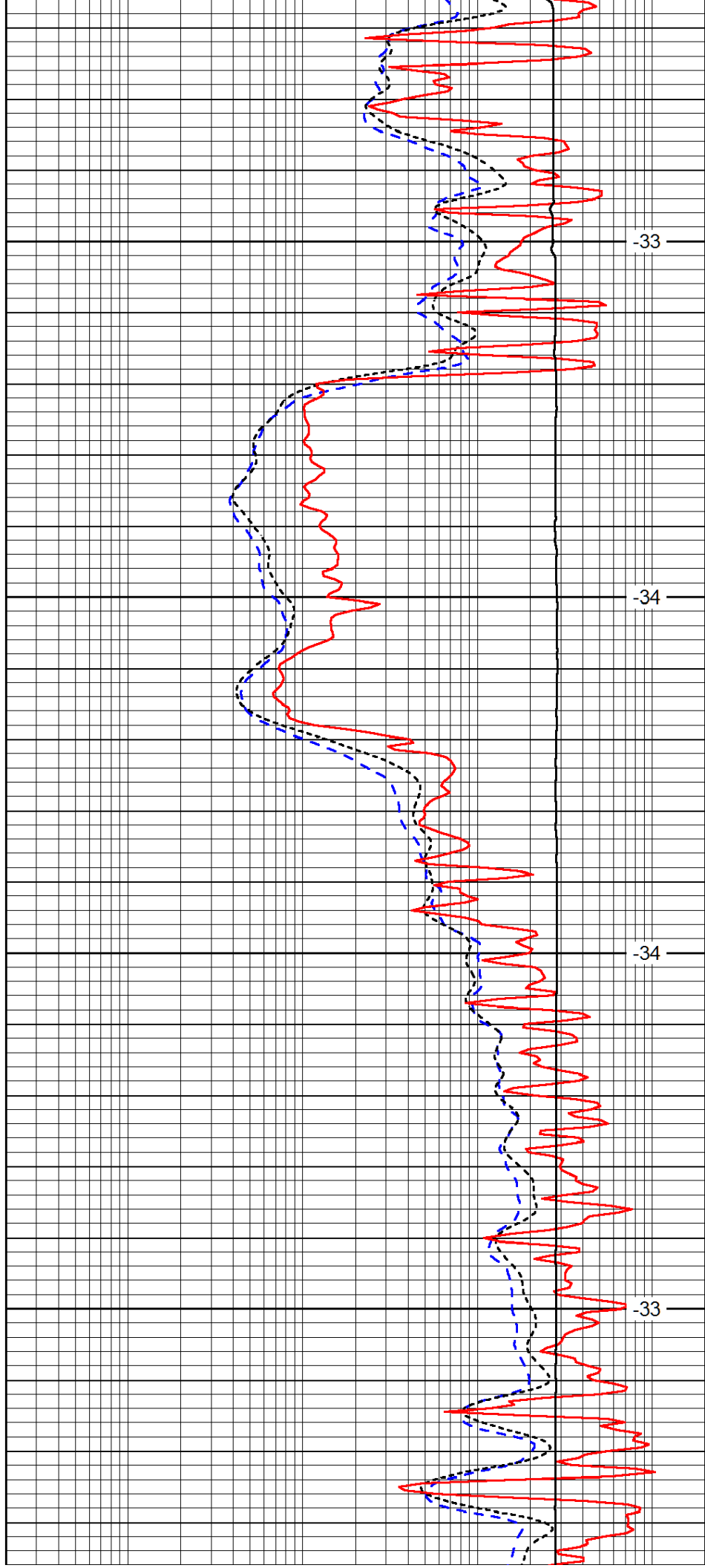


4700

4750

4800

4850

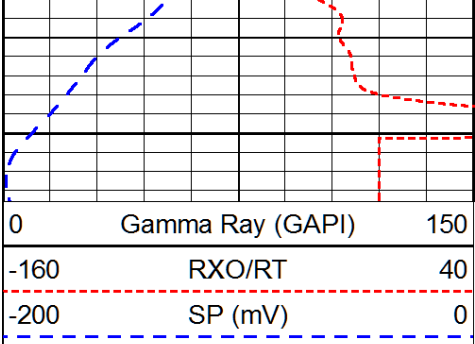


-33

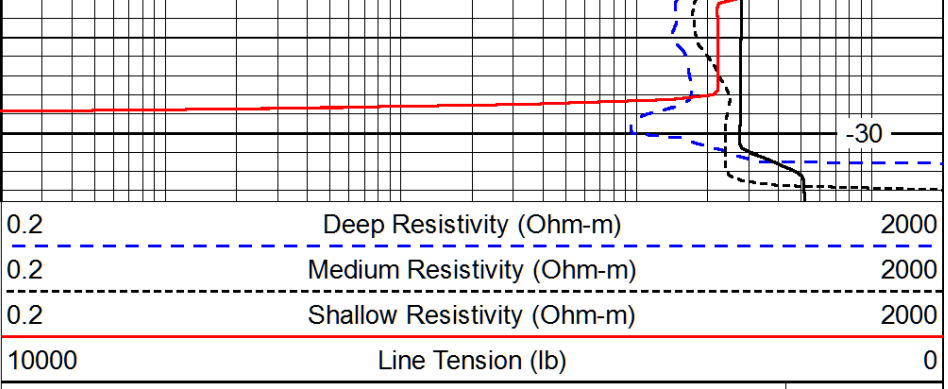
-34

-34

-33



4900



-30

LSPD
(ft/min)