



Dual Induction Log

Pioneer Energy Services

API No.

15-055-22,269-00-00

Company Palmer Oil, Inc.

Well Brookover #4-6

Field Unknown

County Finney State

Kansas

Location 780' FSL & 1070' FEL

Sec: 4 Twp: 25S Rge: 32W

Other Services
CNL/CDL
MEL

Permanent Datum Ground Level Elevation 2845

Log Measured From Kelly Bushing 13 Ft. Above Perm. Datum

Drilling Measured From Kelly Bushing K.B. 2858
D.F. 2845
G.L. 2845

Date 5/1/2014

Run Number One

Depth Driller 5000

Depth Logger 5001

Bottom Logged Interval 5000

Top Log Interval 1700

Casing Driller 8.625 @ 1701

Casing Logger 1700

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 2,100

Density / Viscosity 9.1 60

pH / Fluid Loss 10.5 8.8

Source of Sample Flowline

Rm @ Meas. Temp .74 @ 44

Rmf @ Meas. Temp .55 @ 44

Rmc @ Meas. Temp .99 @ 44

Source of Rmf / Rmc Charts

Rm @ BHT .25 @ 128

Operating Rig Time 3 Hours

Max Rec. Temp. F 128

Equipment Number 91

Location Hays

Recorded By J. Henrickson

Witnessed By Kevin Timson

<<< 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.

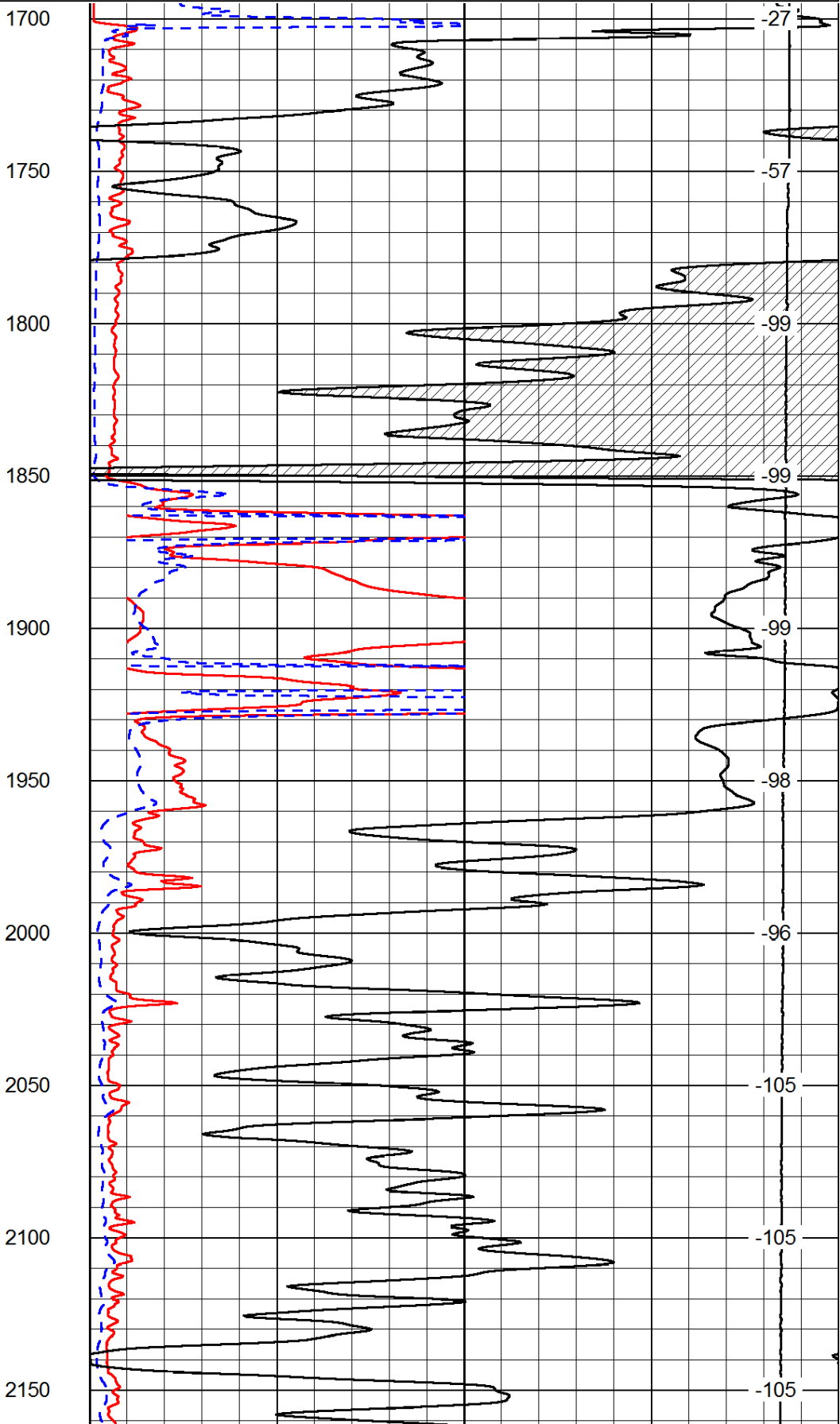
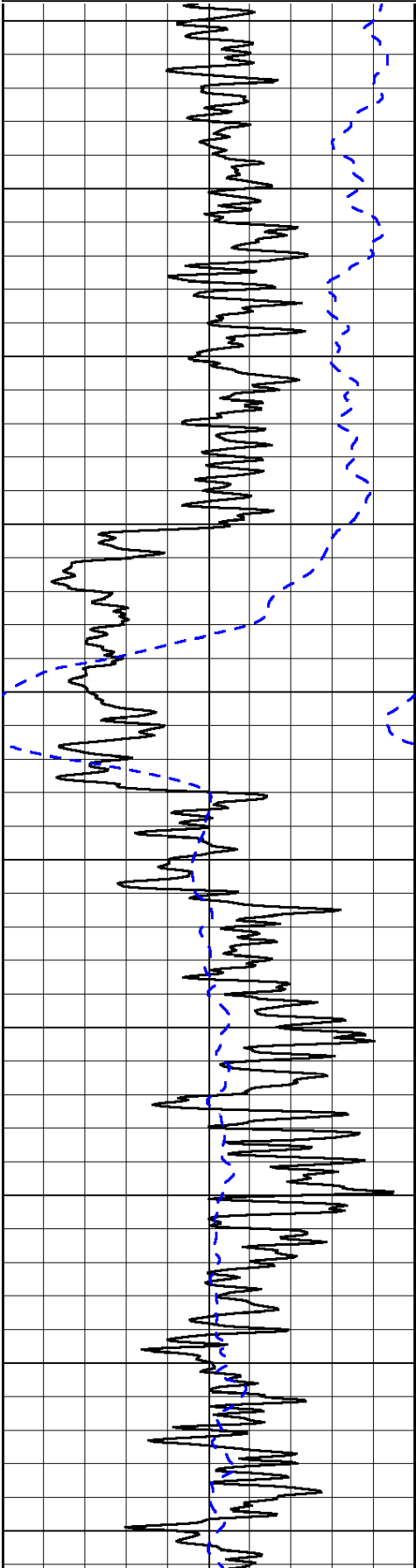
Comments

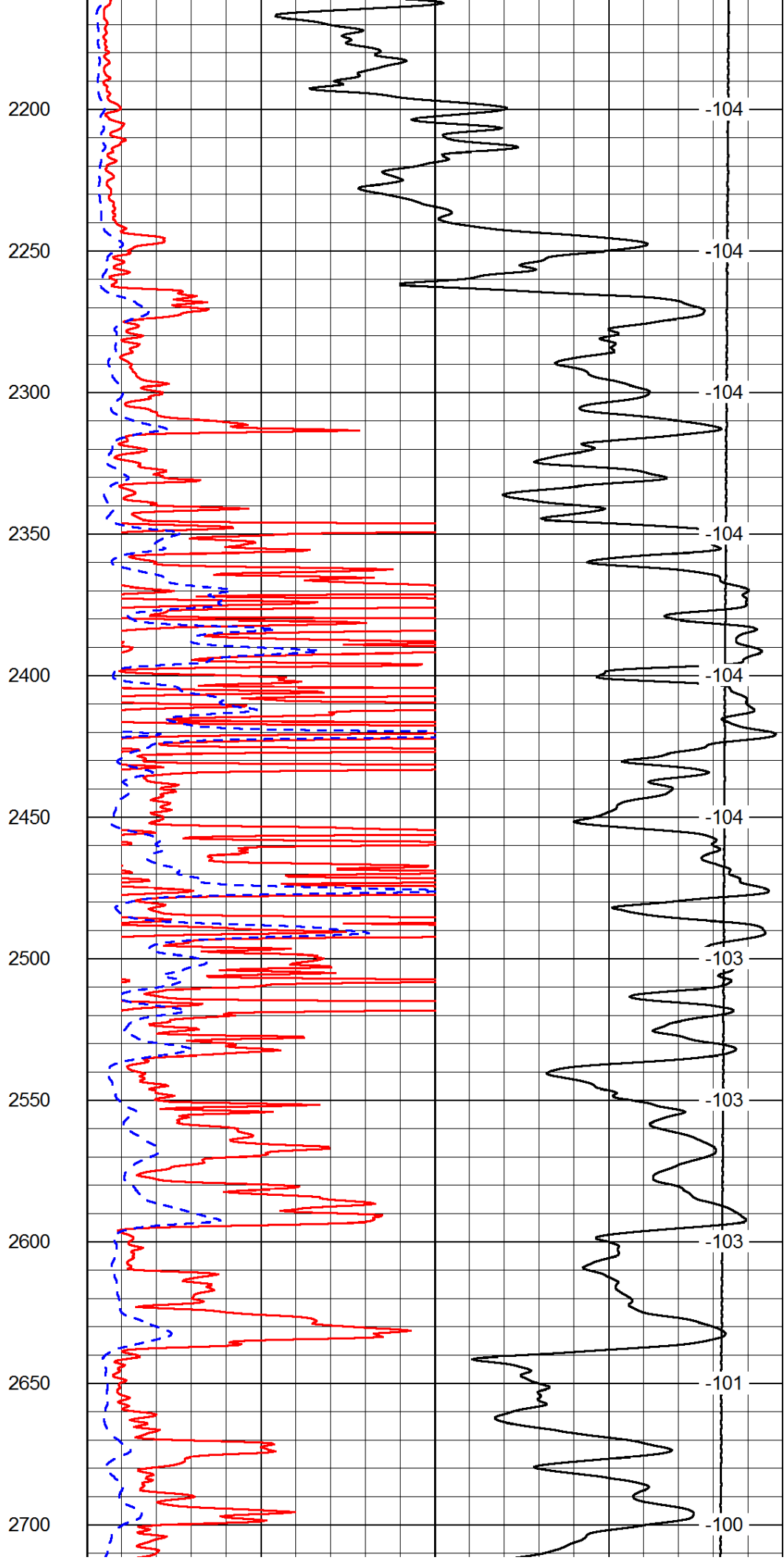
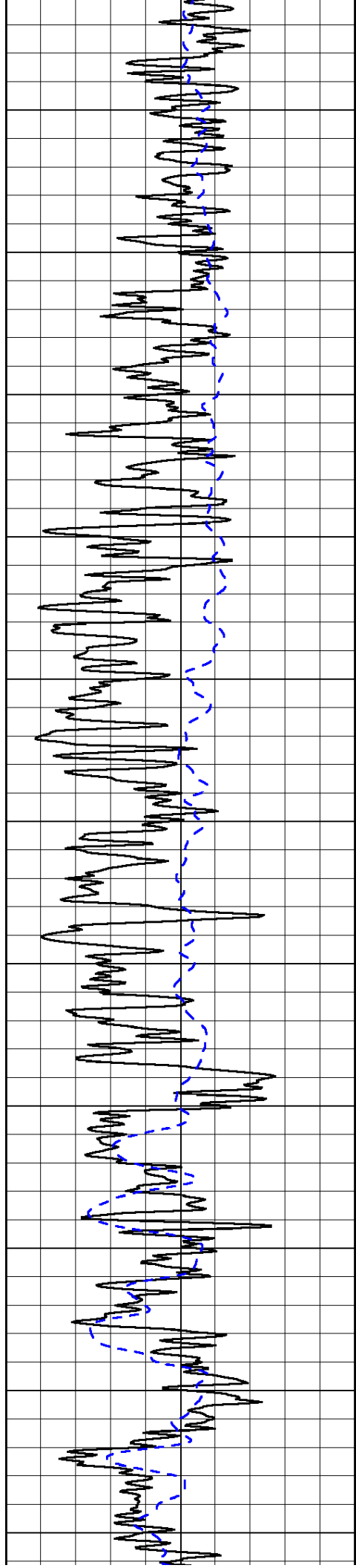
Thank you for using Pioneer Energy Services
www.pioneerres.com
785 625 3858
Garden City Kansas
South to Brookover Ranch Rd, 3/4 South, East Into(about 2 miles)

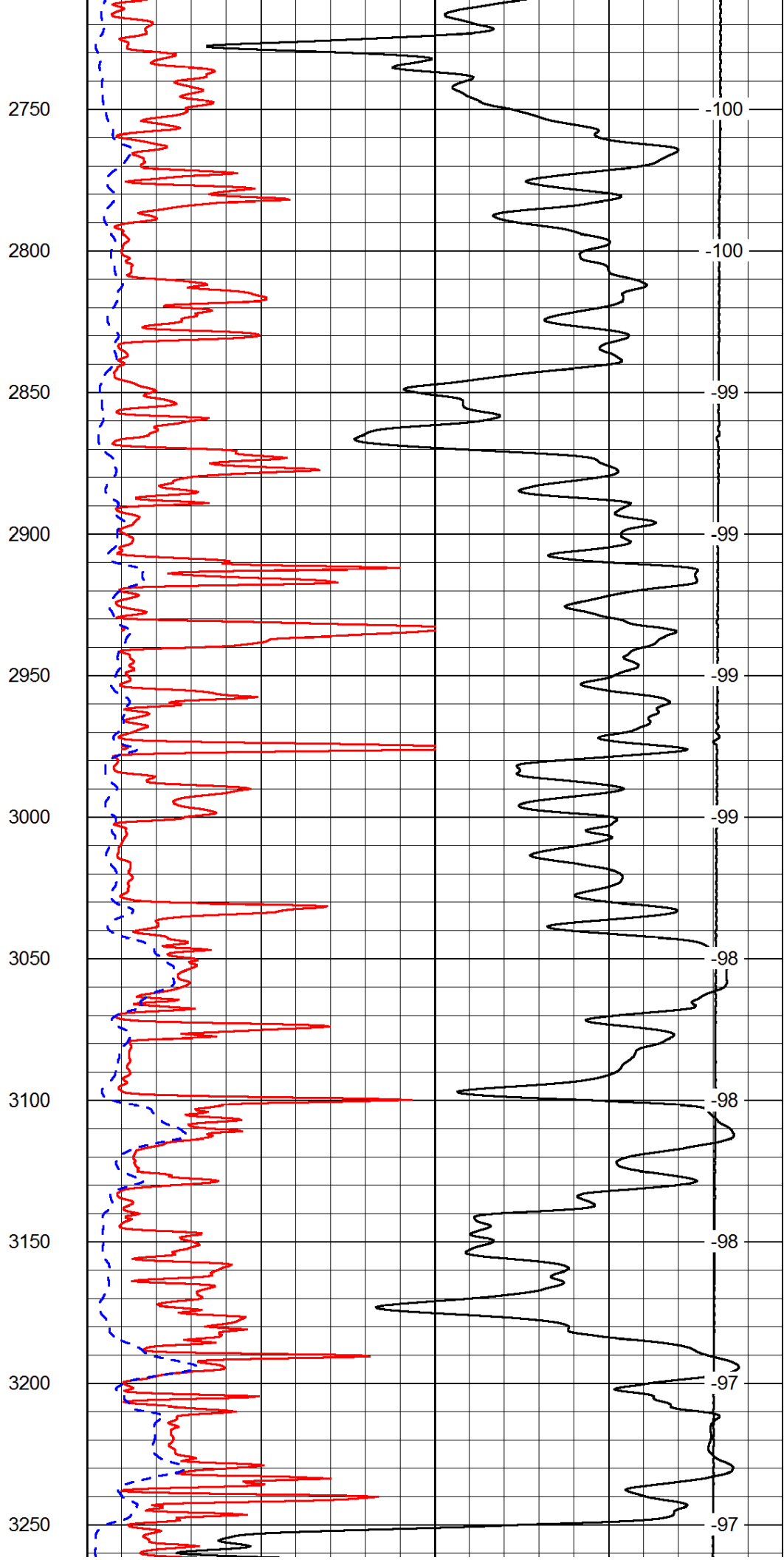
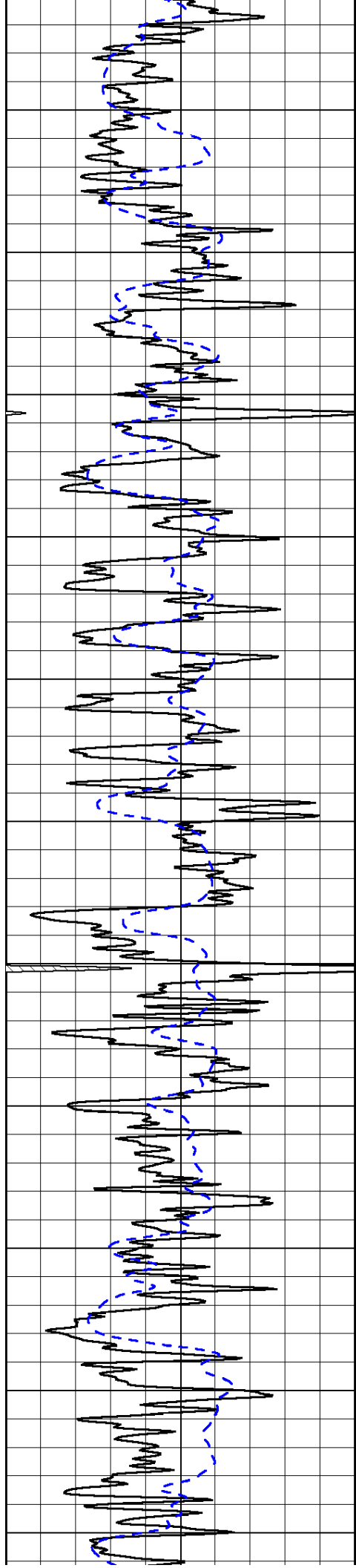
Database File: c:\warrior\data\palmer_brookover #4-6\palmer_05012014hd.db
Dataset Pathname: DIL\palmstk
Presentation Format: dil2in
Dataset Creation: Thu May 01 05:56:00 2014
Charted by: Depth in Feet scaled 1:600

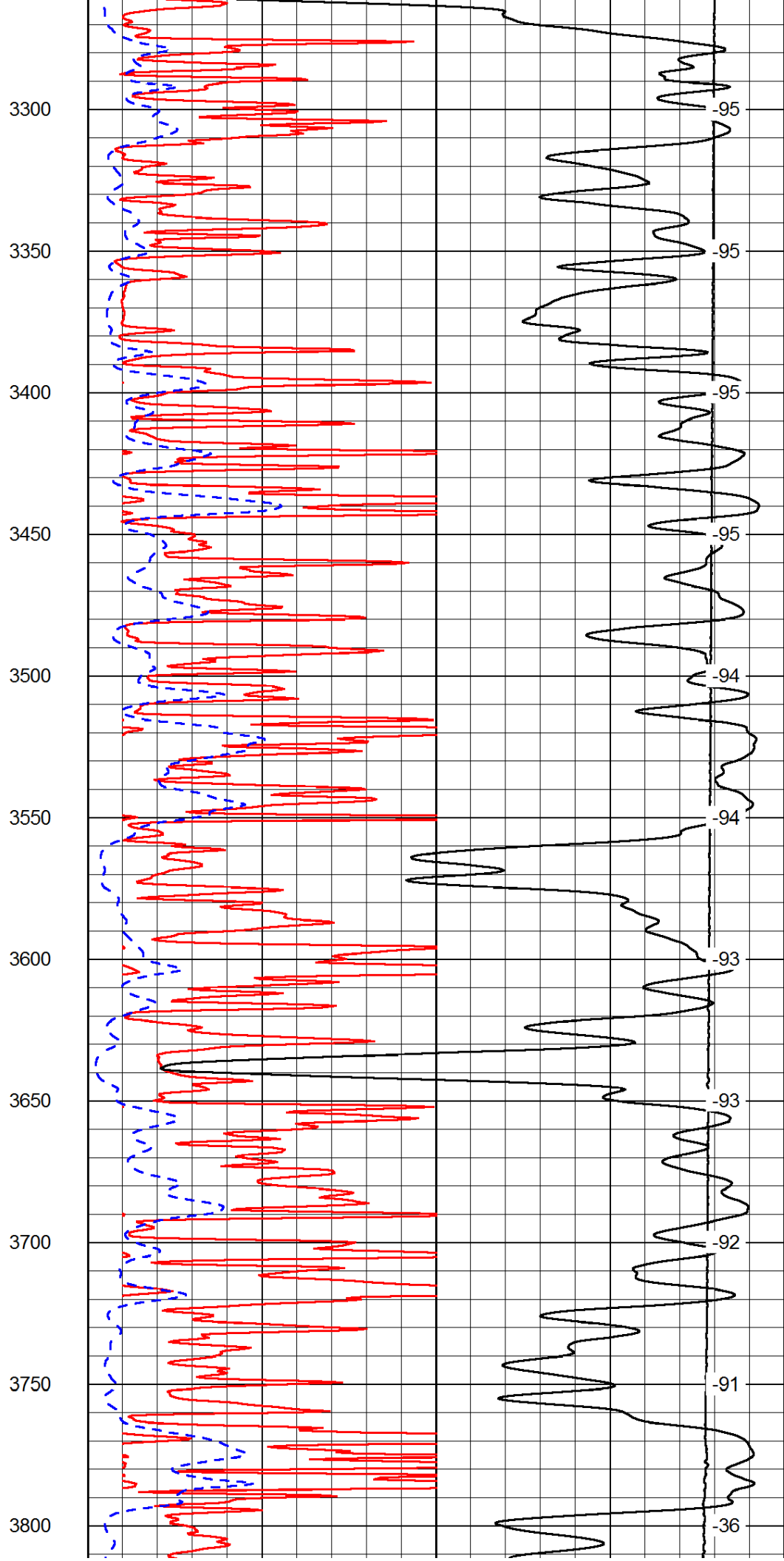
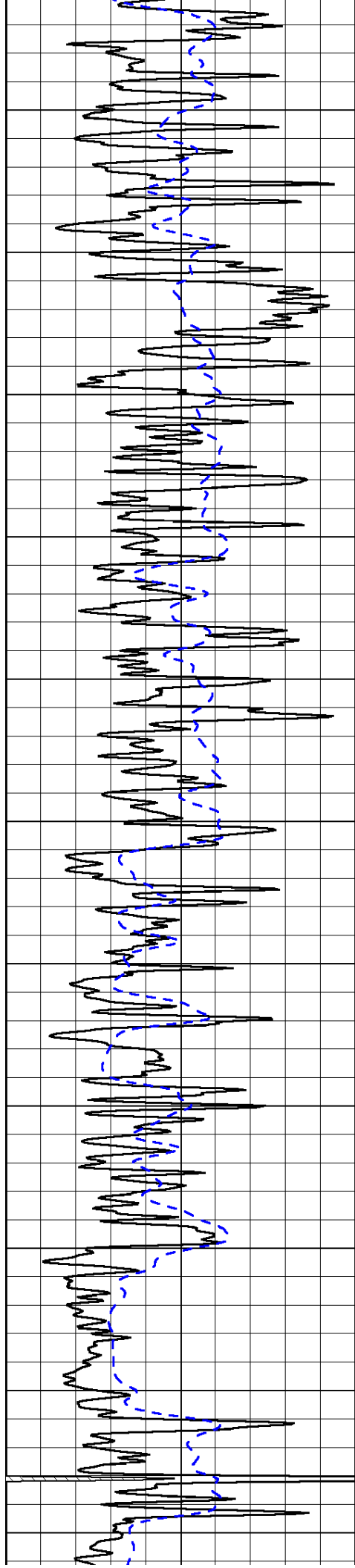
0	Gamma Ray	150
-200	SP (mV)	0

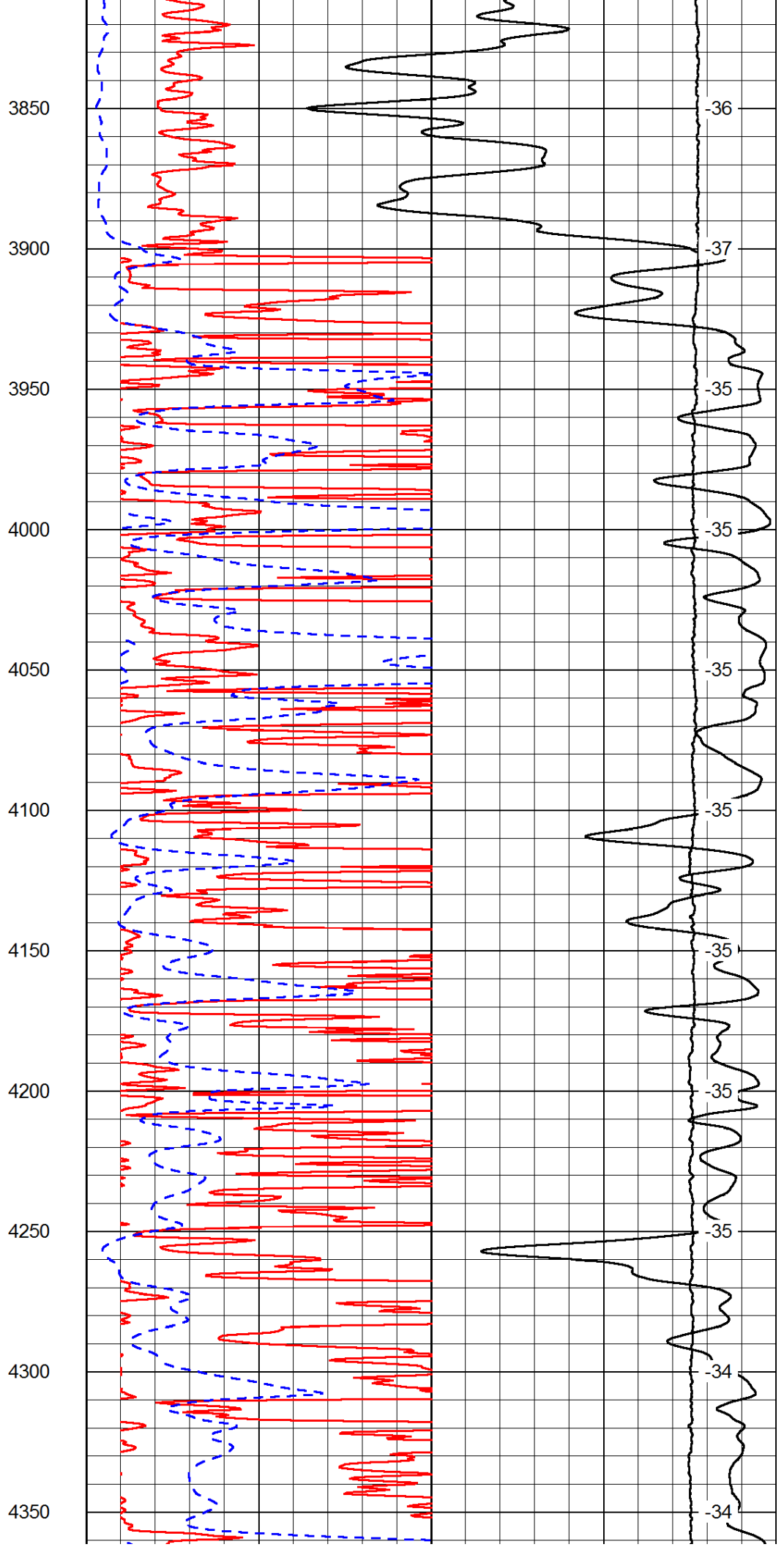
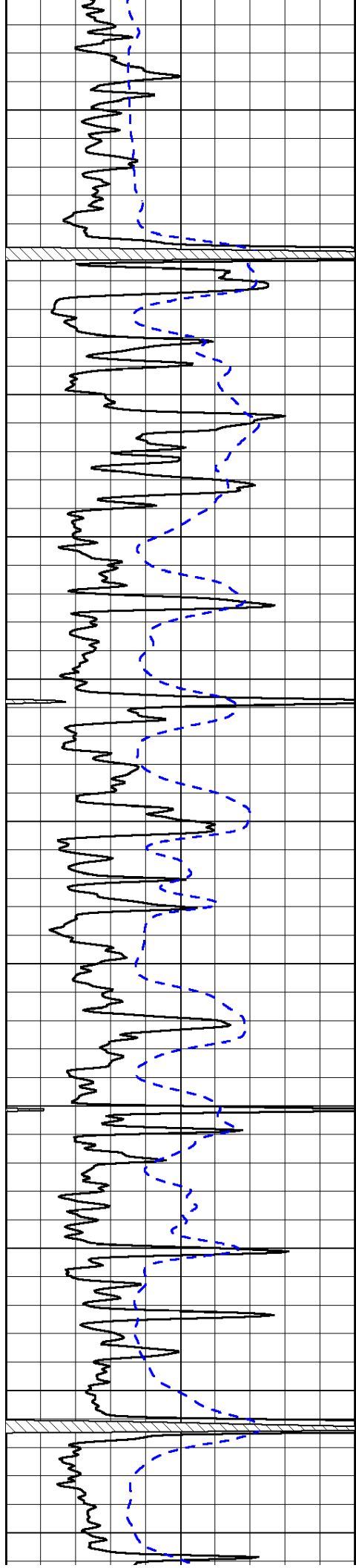
0	Shallow Resistivity	50	LSPD
0	Deep Resistivity	50	
1000	Conductivity		0
15000	Line Tension		0
50	Shallow Resistivity	500	
50	Deep Resistivity	500	

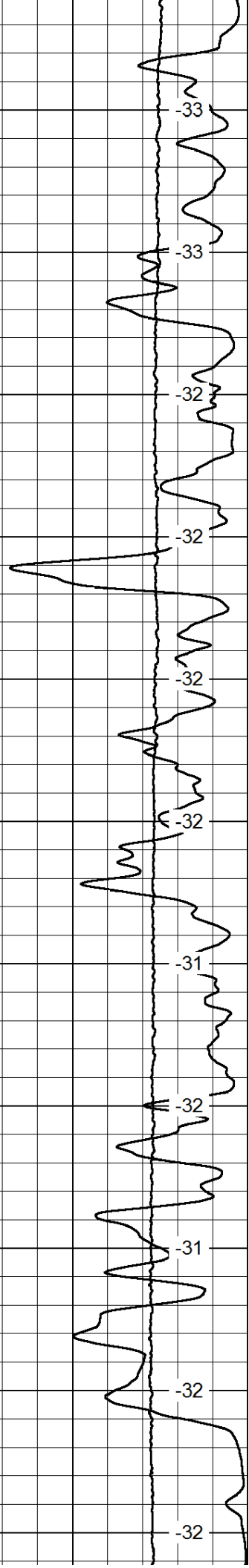
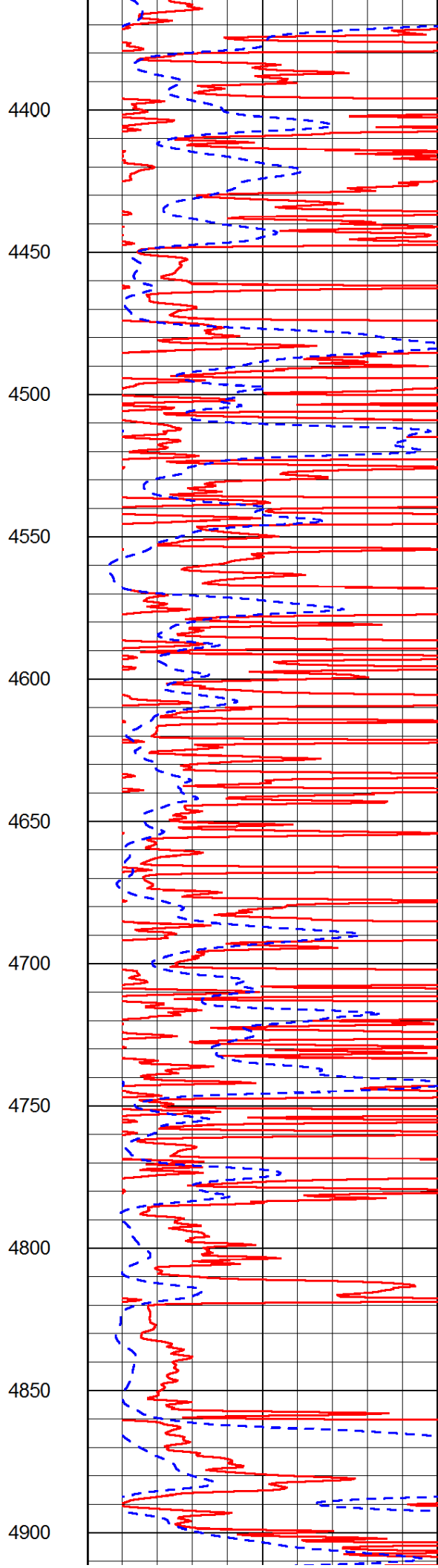
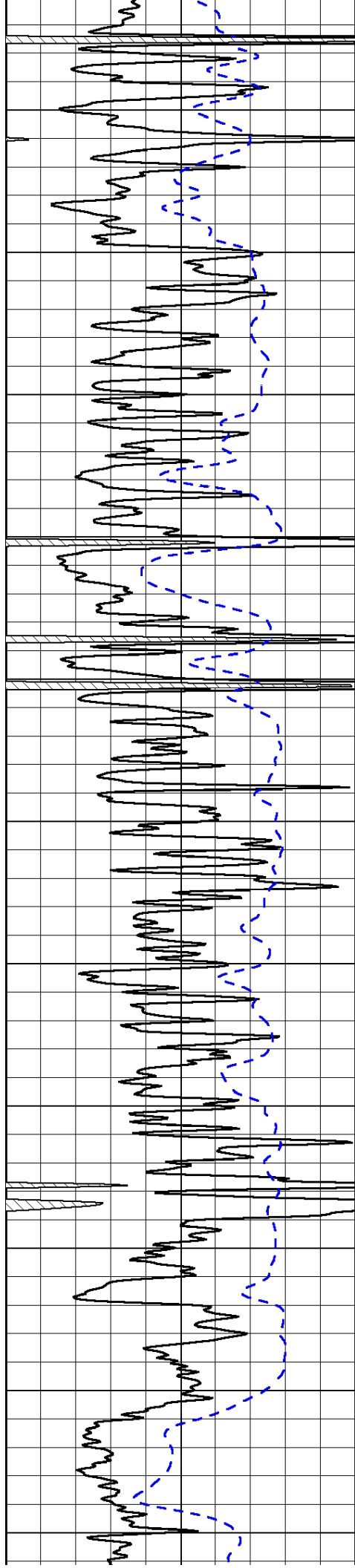


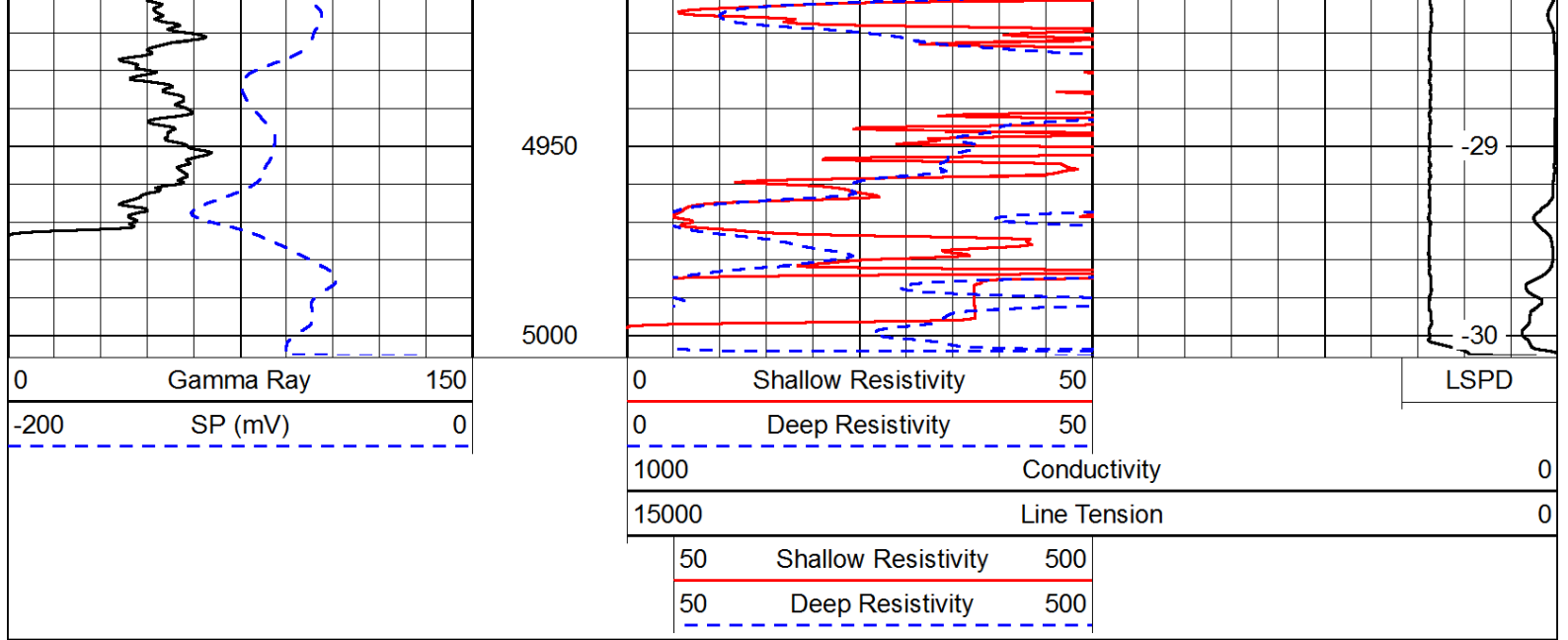




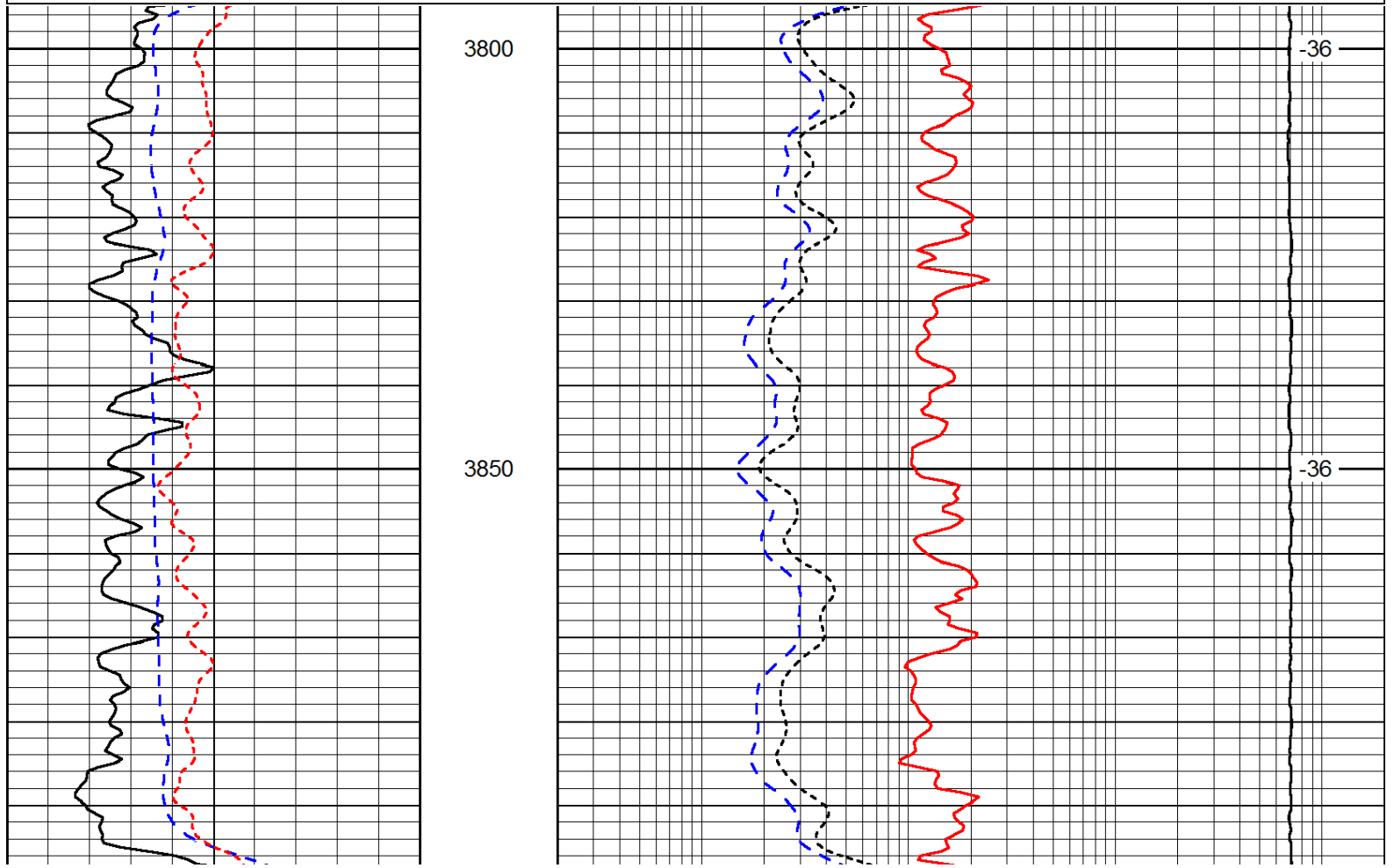
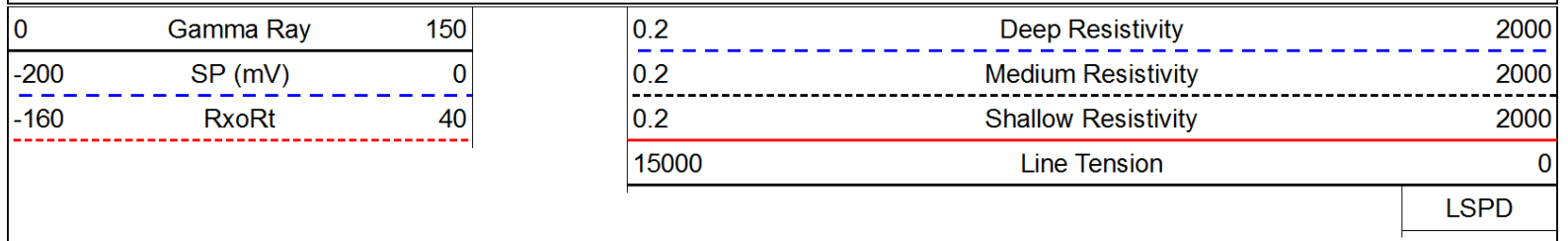


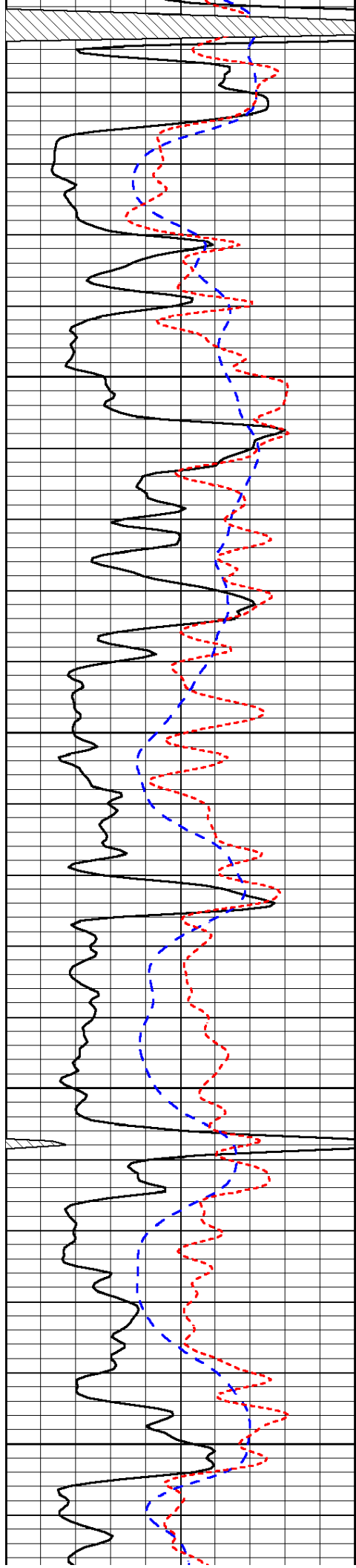






Database File: c:\warrior\data\palmer_brookover #4-6\palmer_05012014hd.db
 Dataset Pathname: DIL/palmstk
 Presentation Format: dil
 Dataset Creation: Thu May 01 05:56:00 2014
 Charted by: Depth in Feet scaled 1:240





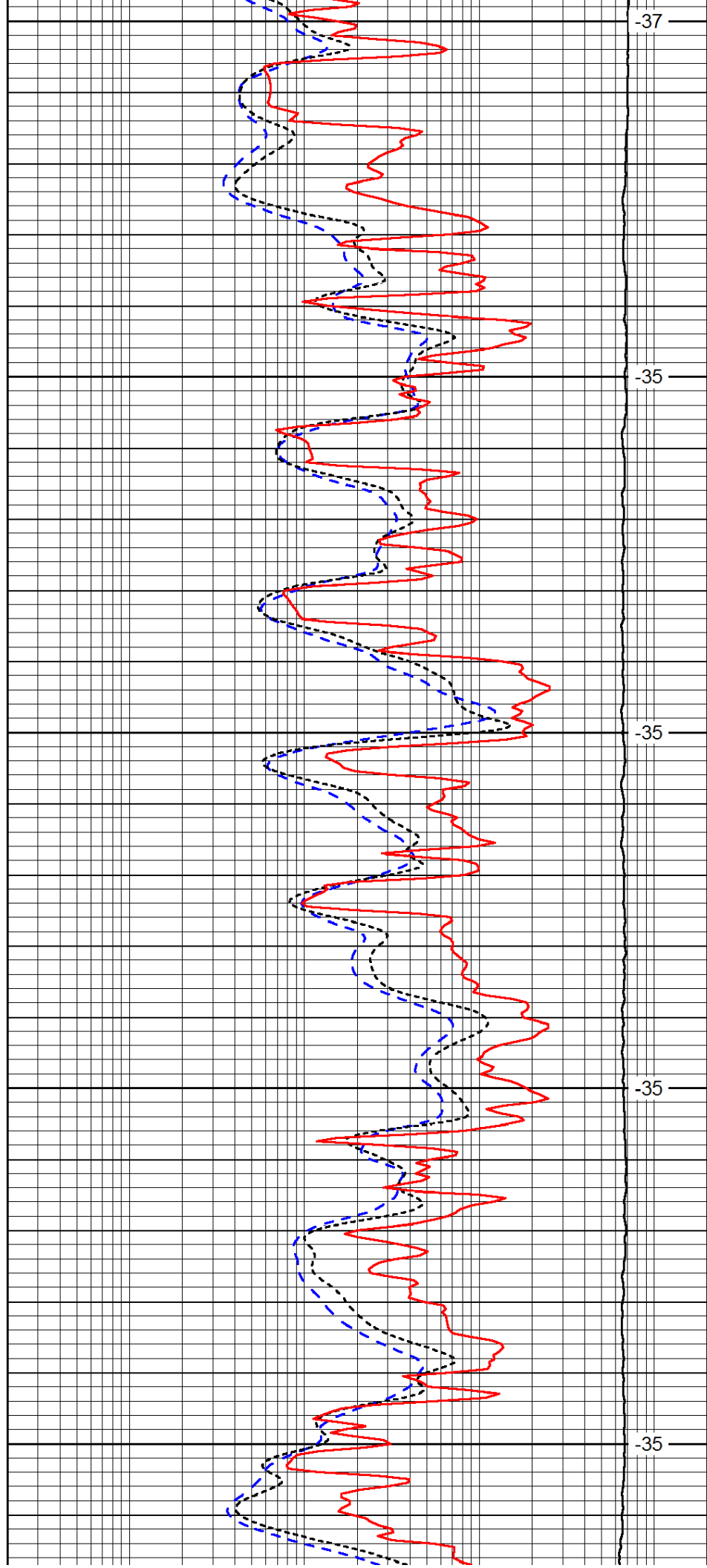
3900

3950

4000

4050

4100



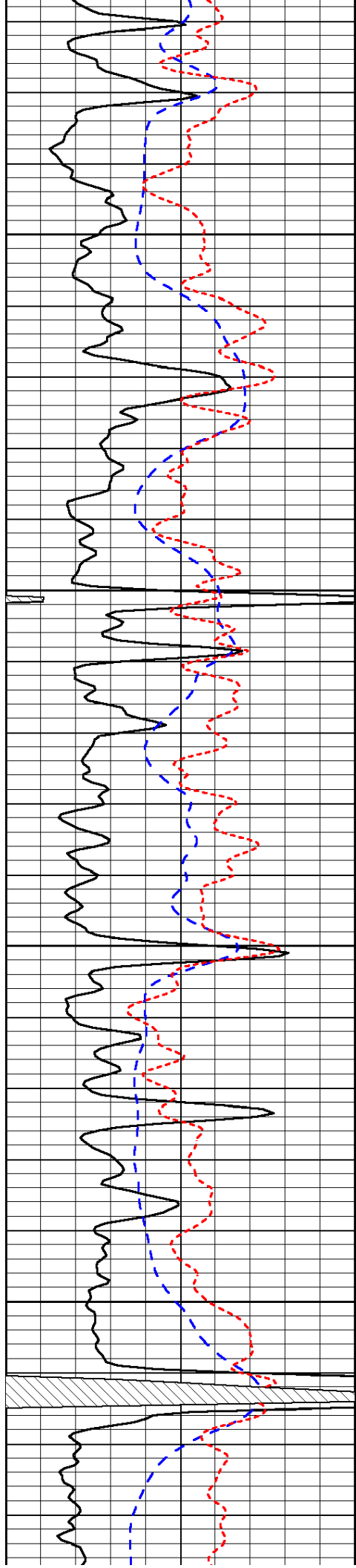
-37

-35

-35

-35

-35

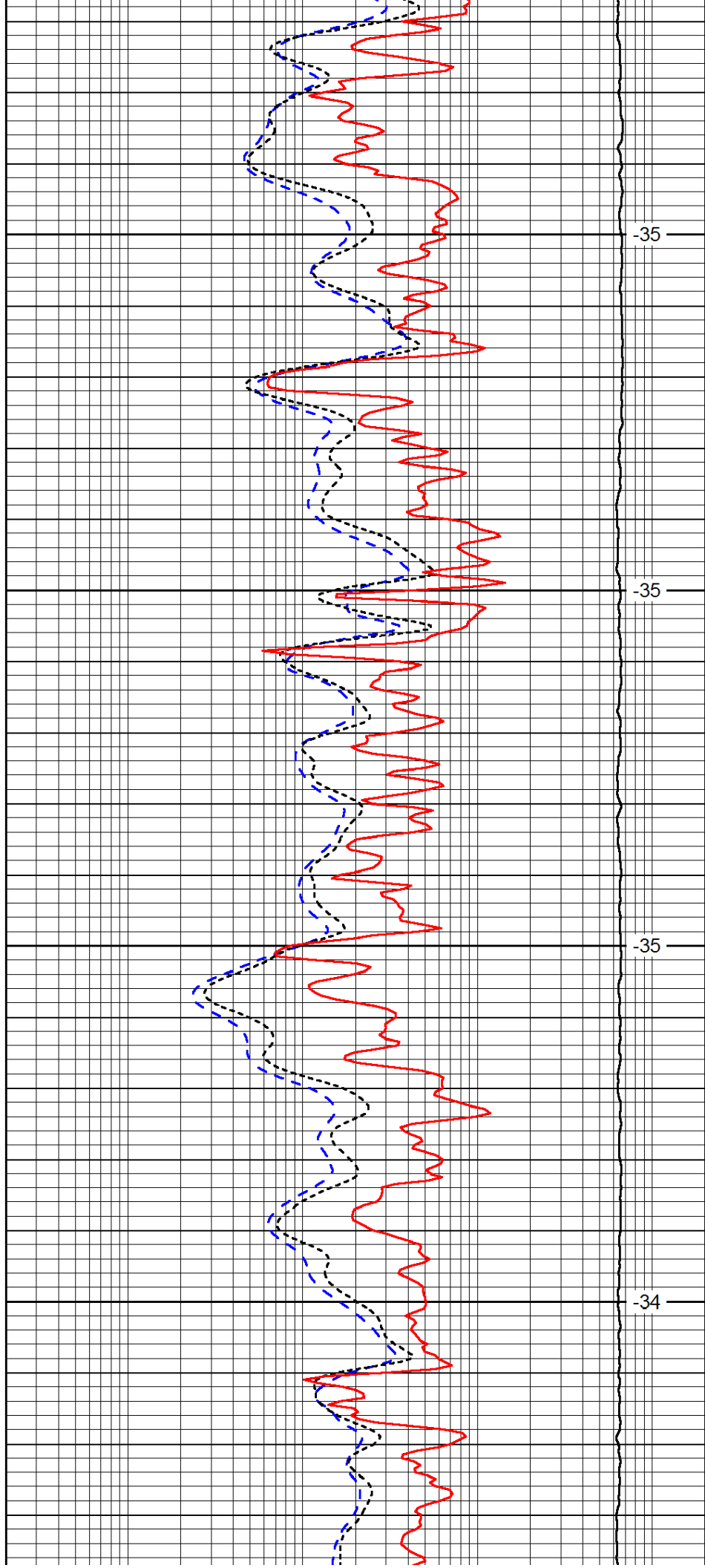


4150

4200

4250

4300

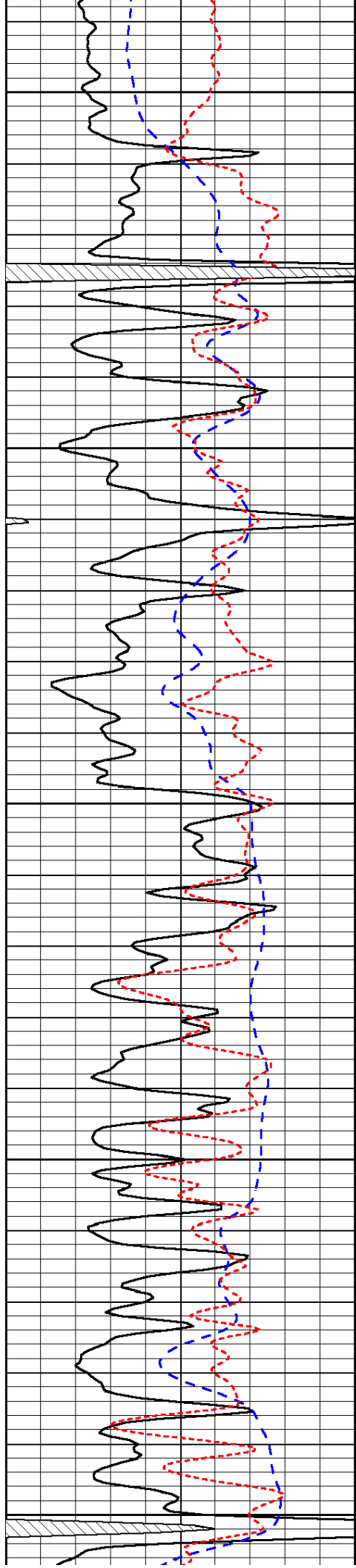


-35

-35

-35

-34



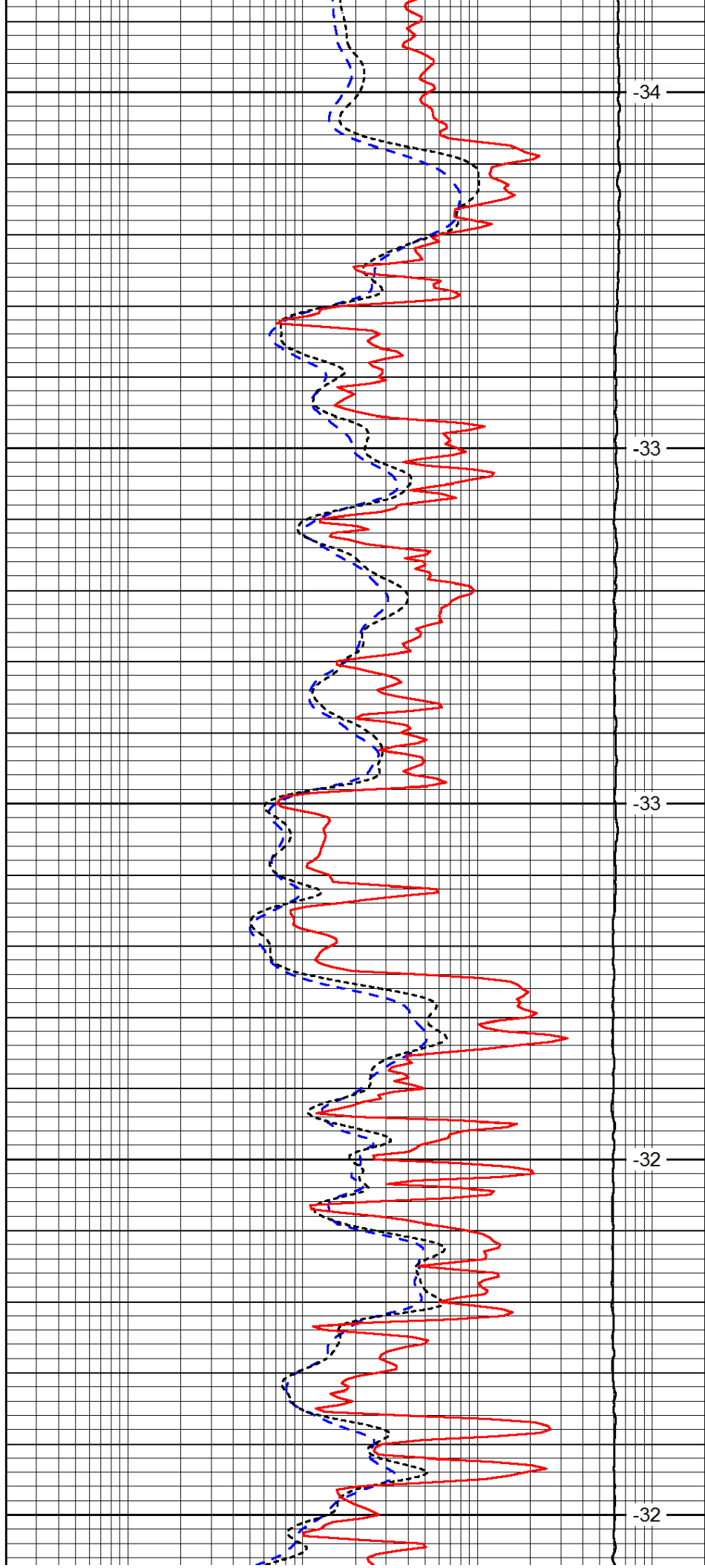
4350

4400

4450

4500

4550



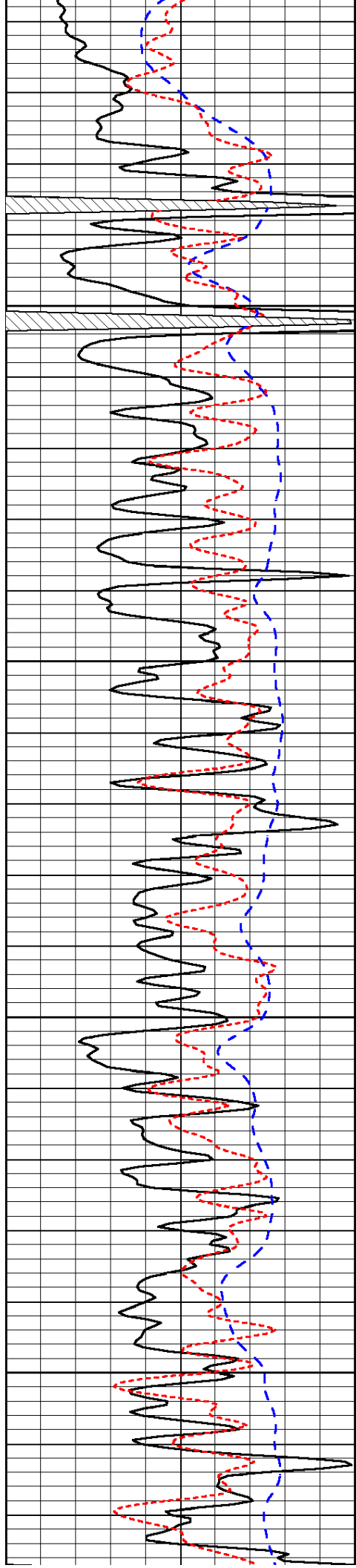
-34

-33

-33

-32

-32

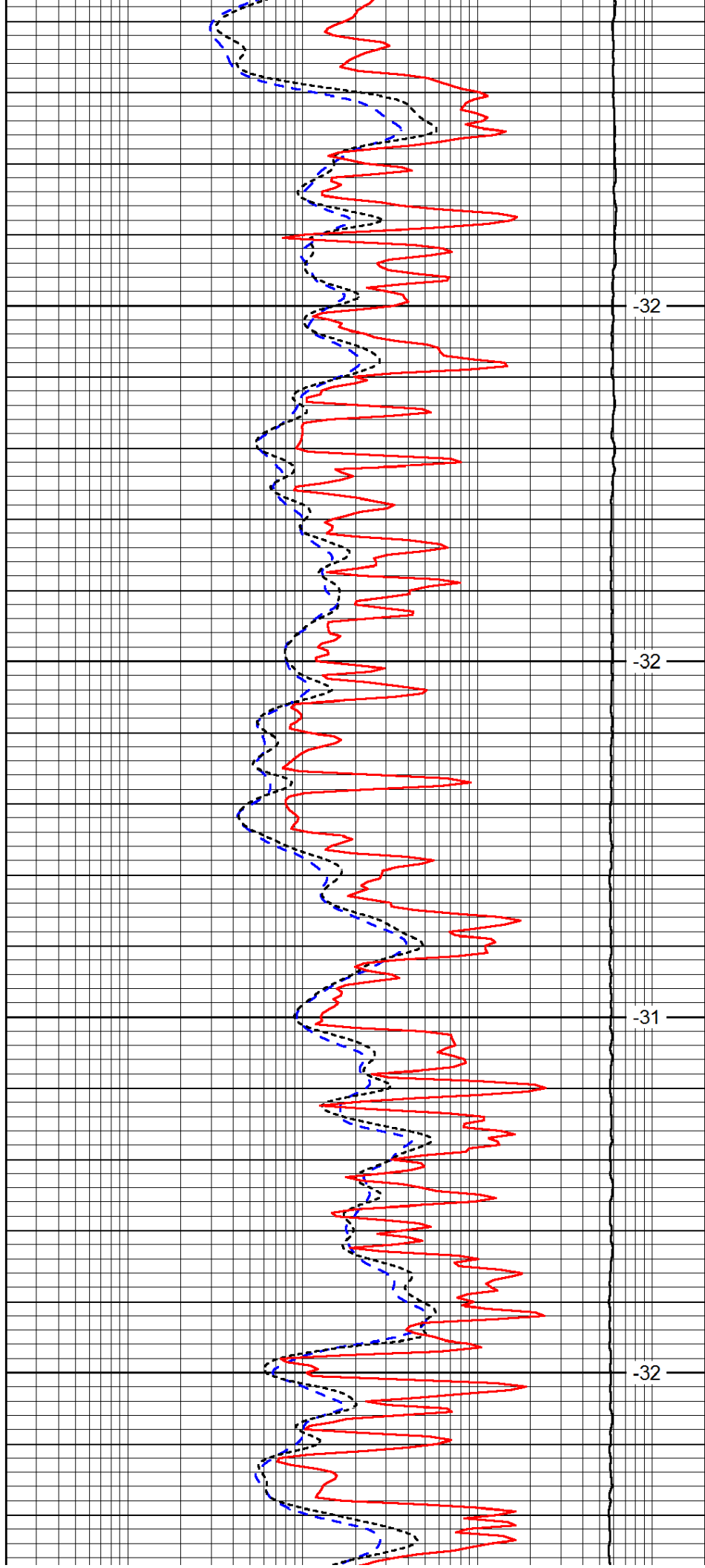


4600

4650

4700

4750

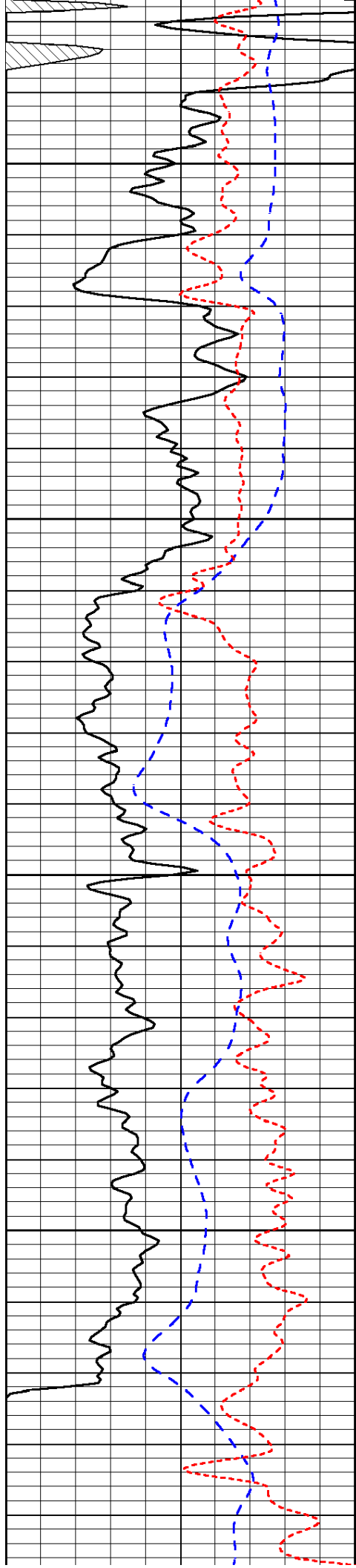


-32

-32

-31

-32

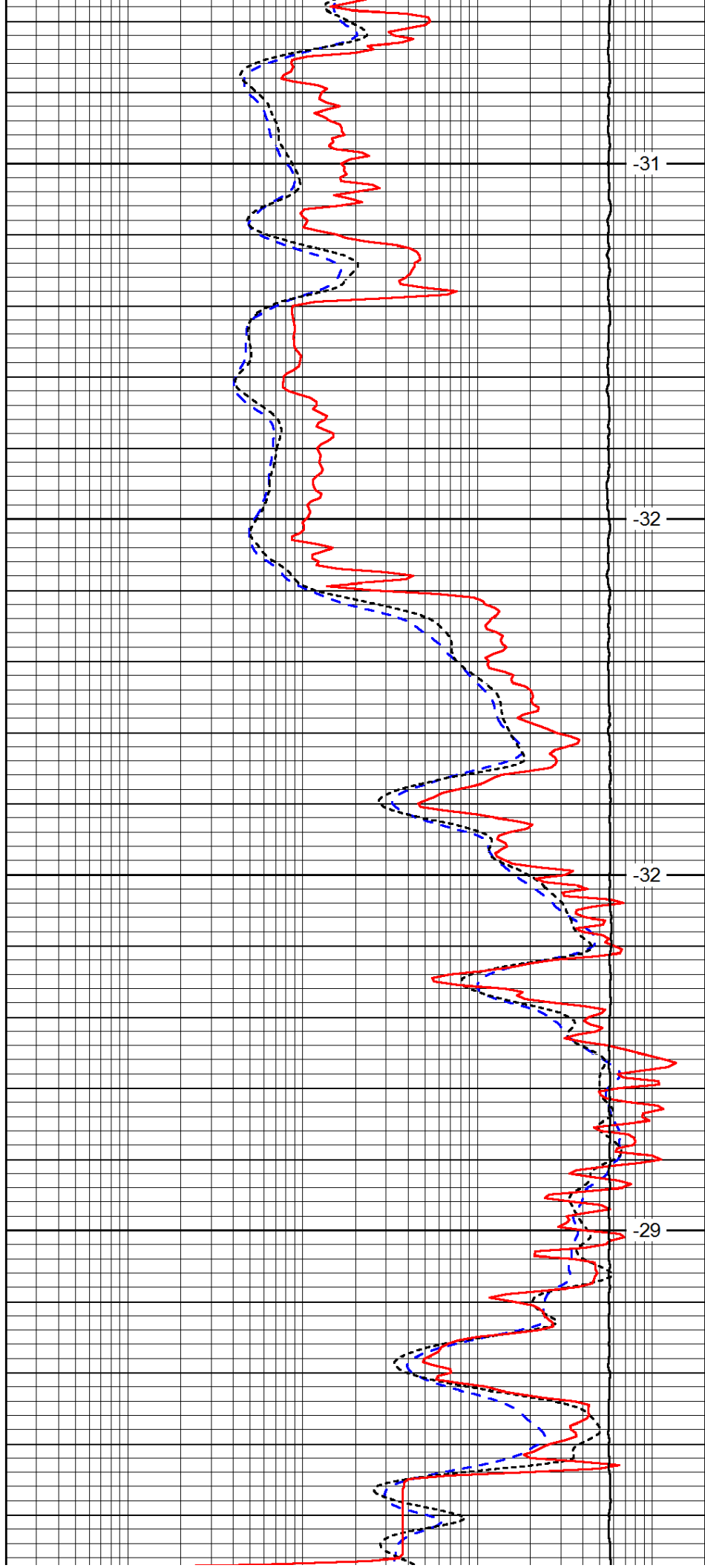


4800

4850

4900

4950

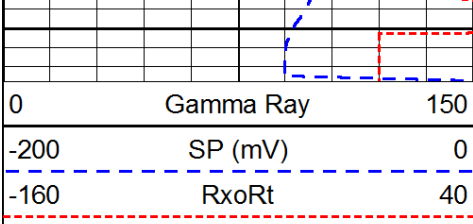


-31

-32

-32

-29



5000

