



PIONEER

Pioneer Energy Services

Dual Induction Log

API No.

15-167-23833-00-00

Company **Craig Oil Company**

Well **Krug #10**

Field **Trapp**

County **Russell**

State

Kansas

Location **1610' FNL & 615' FWL**

Sec: 7

Twp: 15S

Rge: 13W

Other Services
CNL/CDL
MEL

Permanent Datum

Ground Level

Elevation 1864

Log Measured From

Kelly Bushing

7

Ft. Above Perm. Datum

K.B. 1871
D.F. 1864
G.L. 1864

Drilling Measured From

Kelly Bushing

7

Ft. Above Perm. Datum

K.B. 1871
D.F. 1864
G.L. 1864

Date

11/7/2012

Run Number

One

Depth Driller

3365

Depth Logger

3364

Bottom Logged Interval

3363

Top Log Interval

400

Casing Driller

8.625 @ 418

Casing Logger

419

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

3000

Density / Viscosity

8.9 63

pH / Fluid Loss

10.0 8.8

Source of Sample

Flowline

Rm @ Meas. Temp

0.56 @ 56

Rmf @ Meas. Temp

0.42 @ 56

Rmc @ Meas. Temp

0.76 @ 56

Source of Rmf / Rmc

Charts

Rm @ BHT

0.28 @ 112

Operating Rig Time

4 Hours

Max Rec. Temp. F

112

Equipment Number

91

Location

Hays

Recorded By

D. Schmidt

Witnessed By

Jeff Lawler

<<< 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

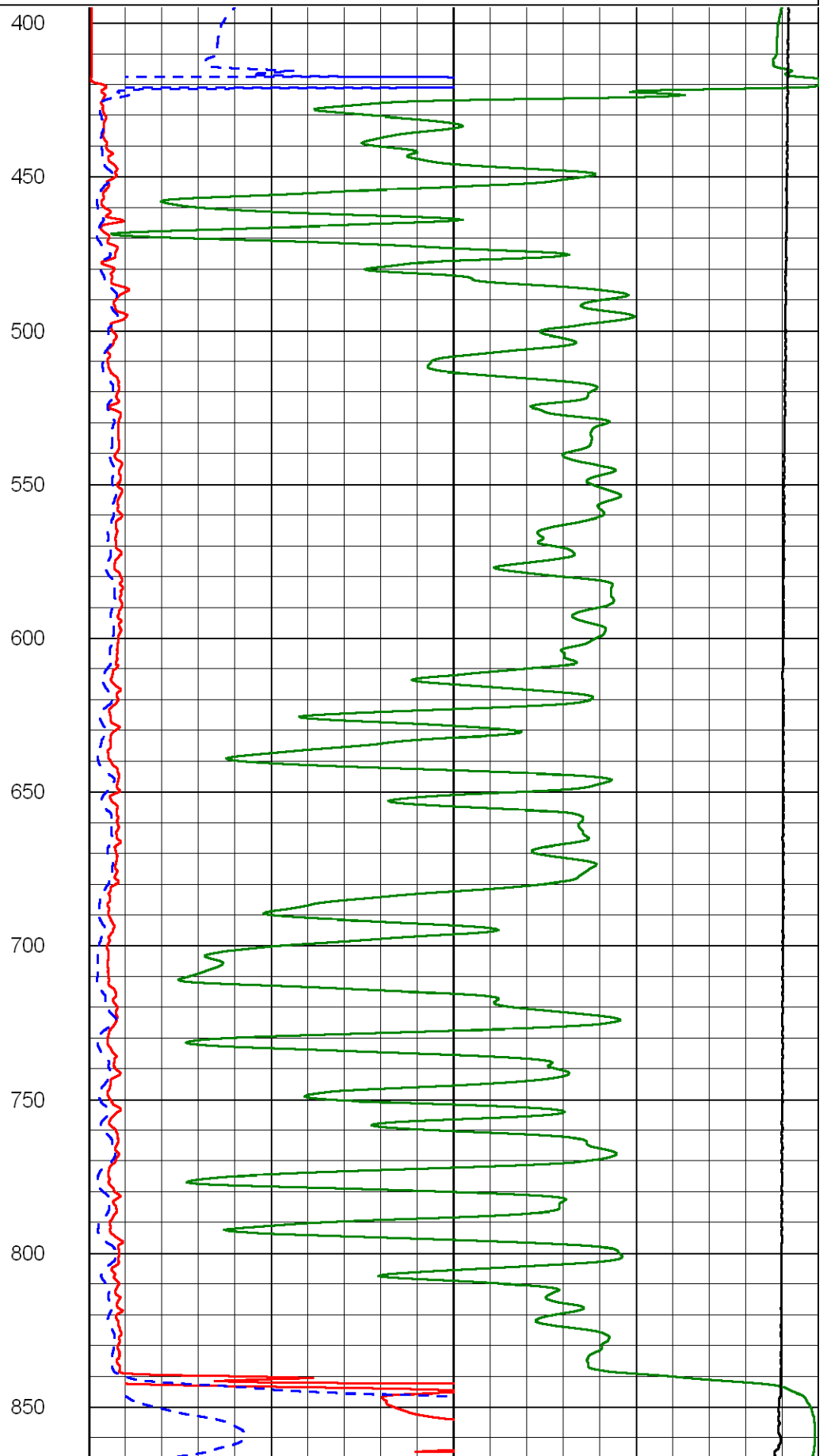
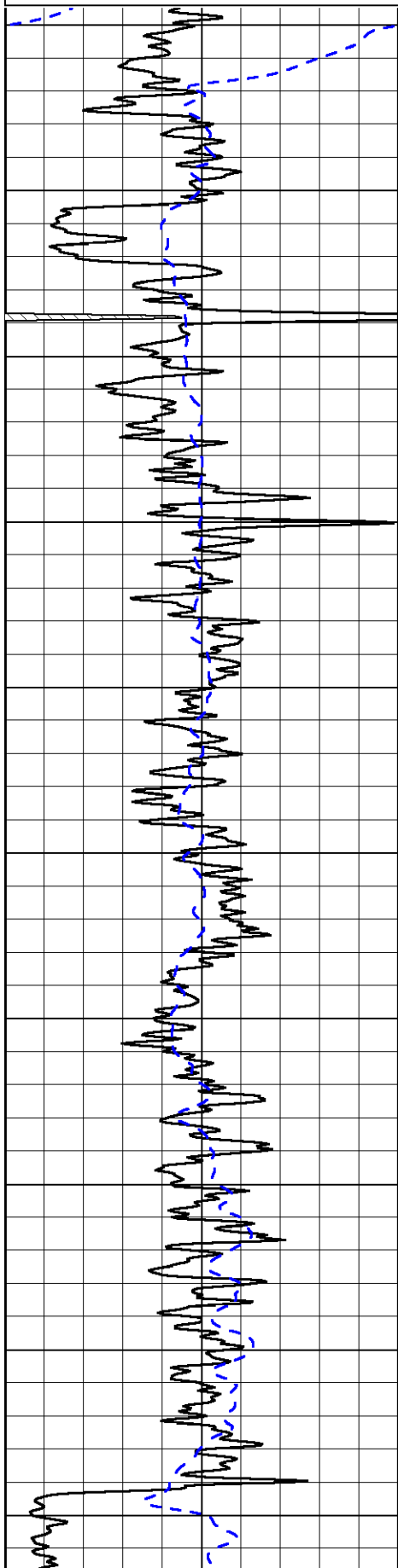
Russell,
8 1/2 South on Hwy 281 to Winterset Rd, 1 1/2 East to 187th,
1 1/2 North, East & North into

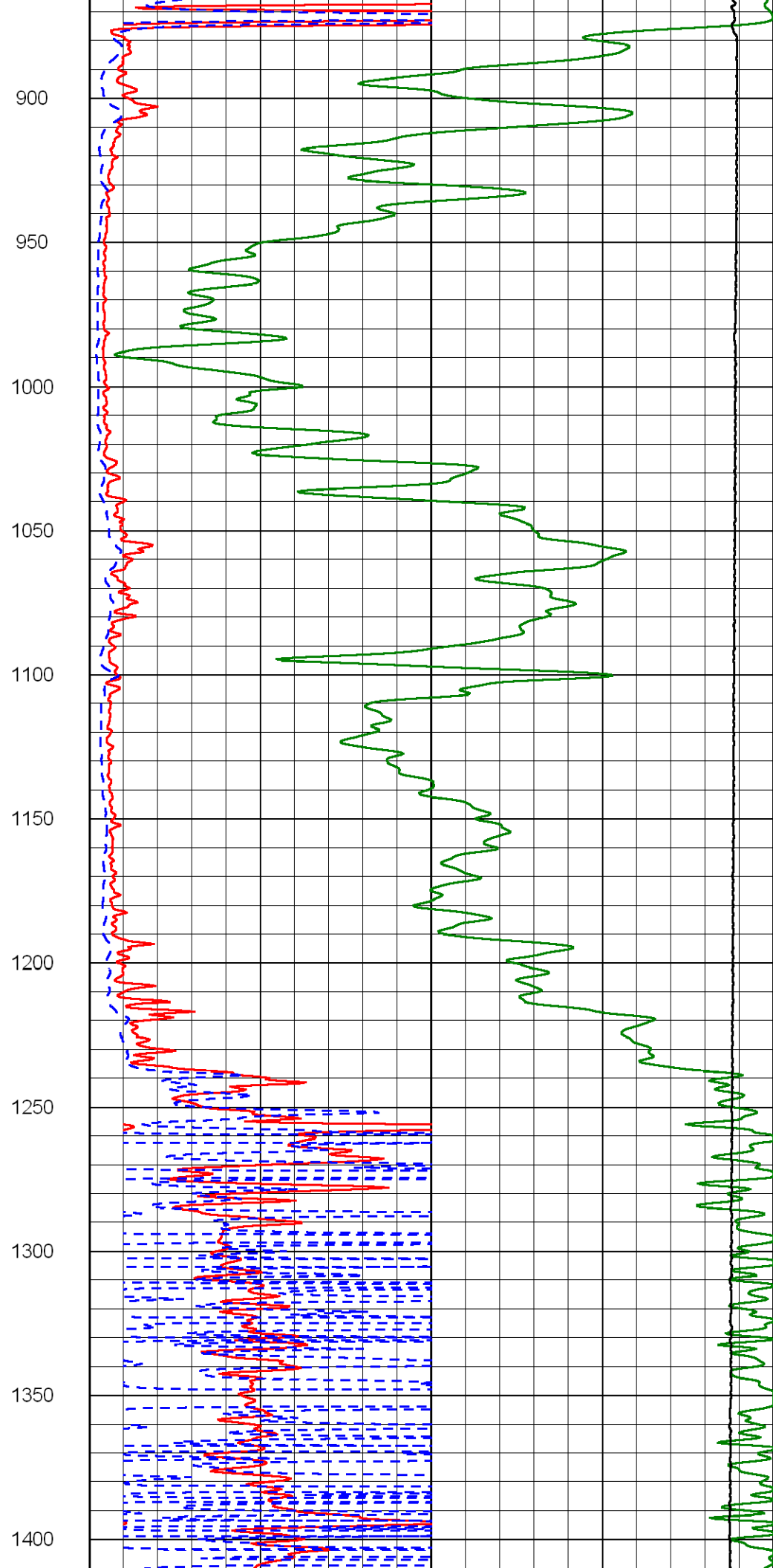
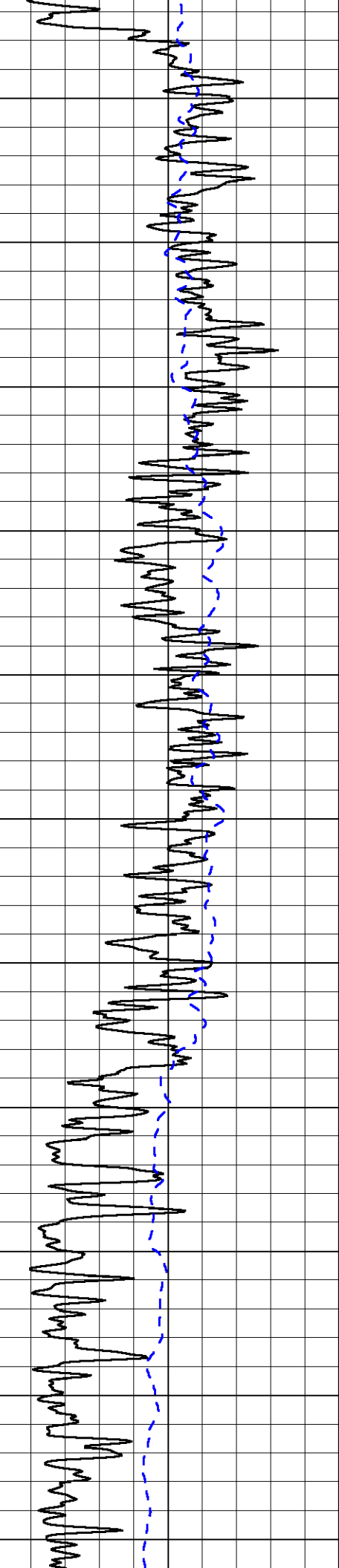
Database File: craig_110712hd.db
Dataset Pathname: dil/crgstack
Presentation Format: dil2in
Dataset Creation: Wed Nov 07 13:35:22 2012
Charted by: Depth in Feet scaled 1:600

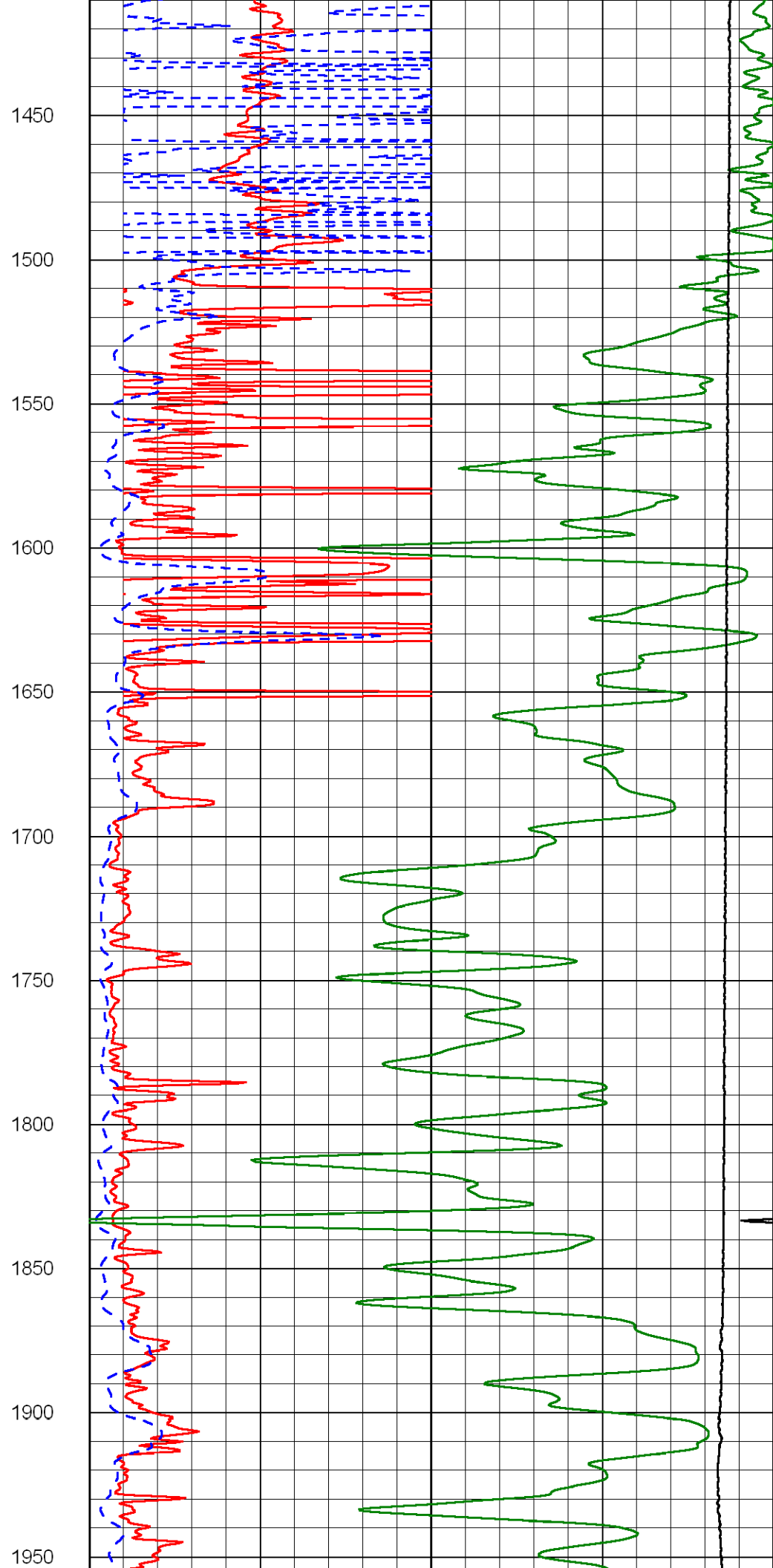
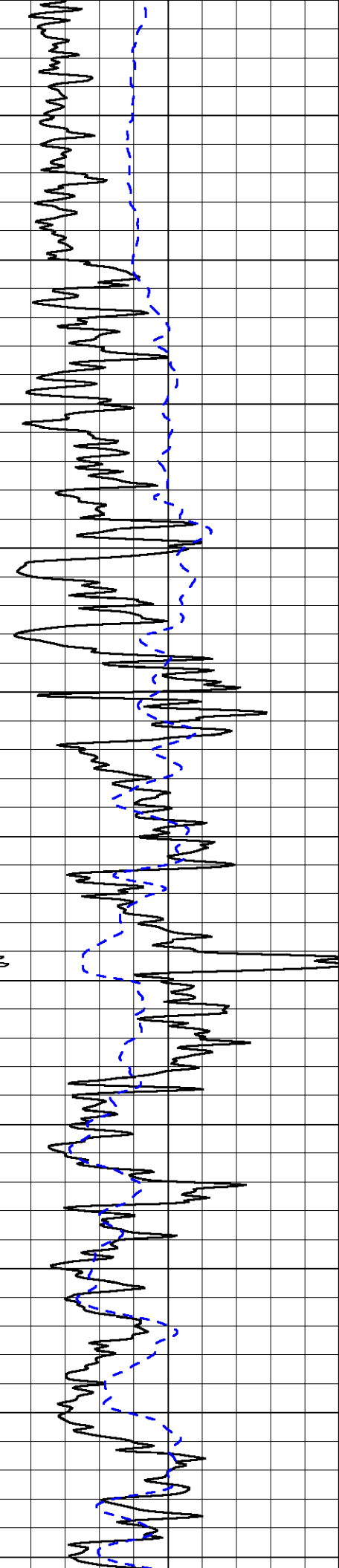
0	Gamma Ray	150
-200	SP	0

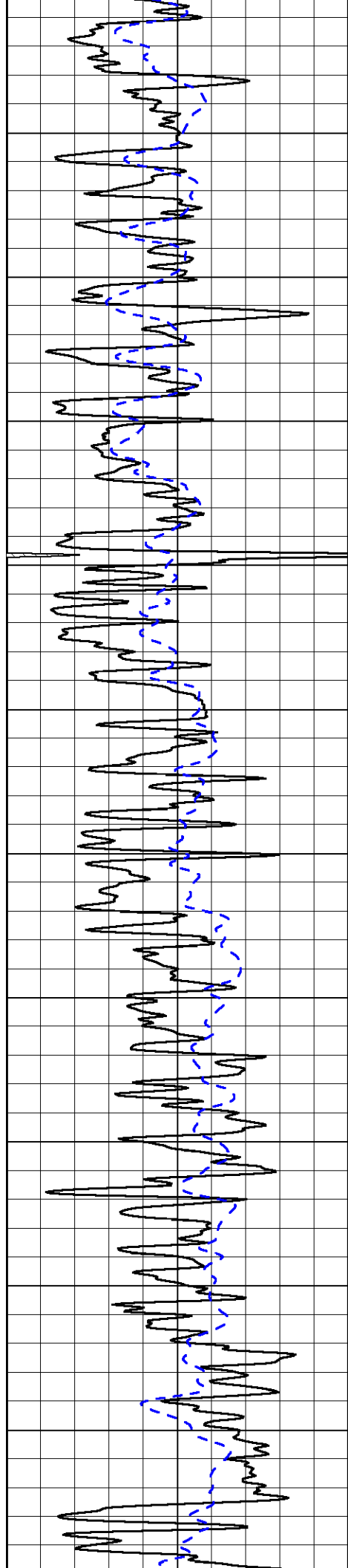
0	Shallow Resistivity	50
0	Deep Resistivity	50
1000	Conductivity	0
15000	Line Tension	0

50	Shallow Resistivity	500
50	Deep Resistivity	500









2000

2050

2100

2150

2200

2250

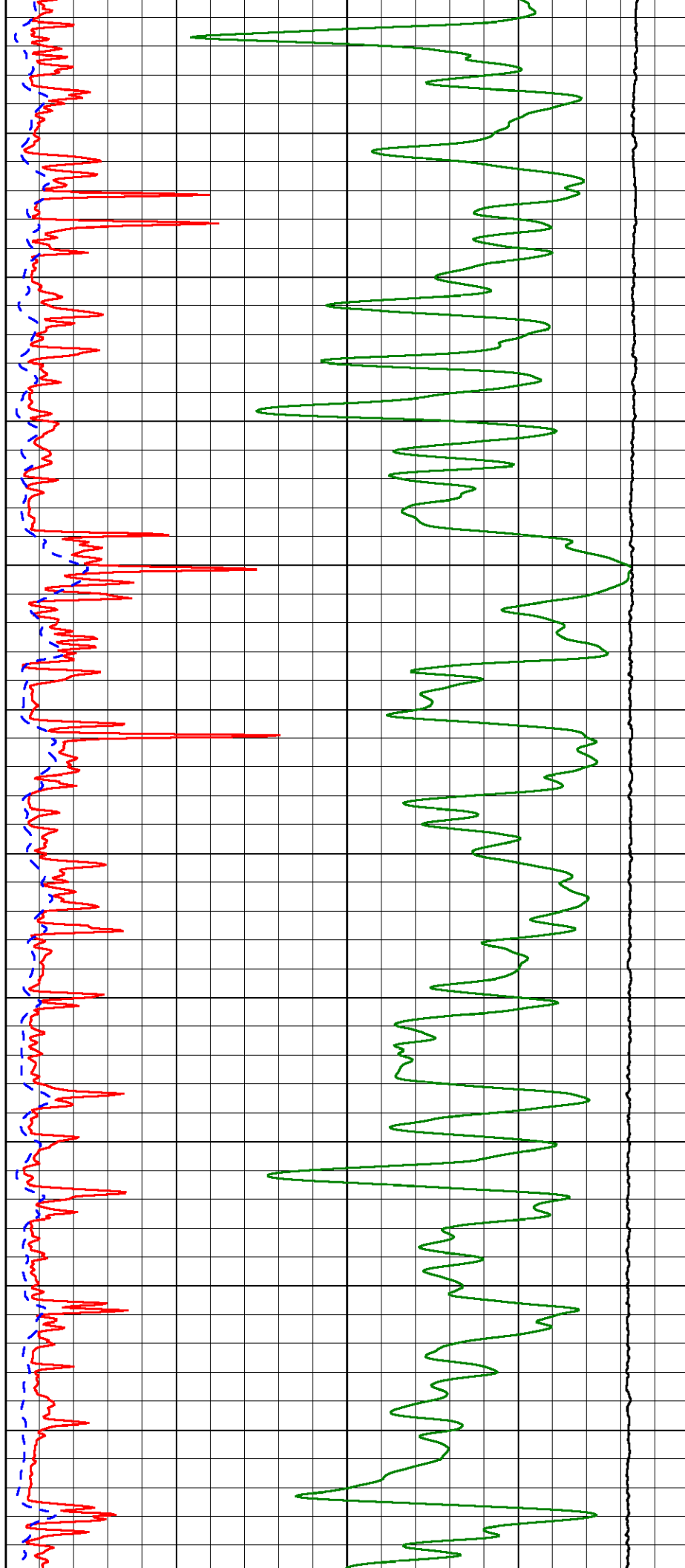
2300

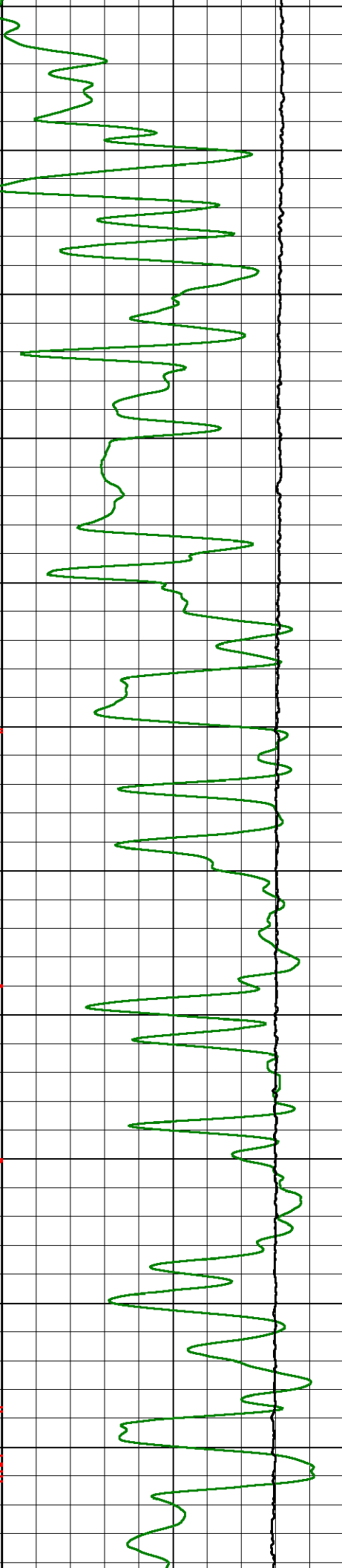
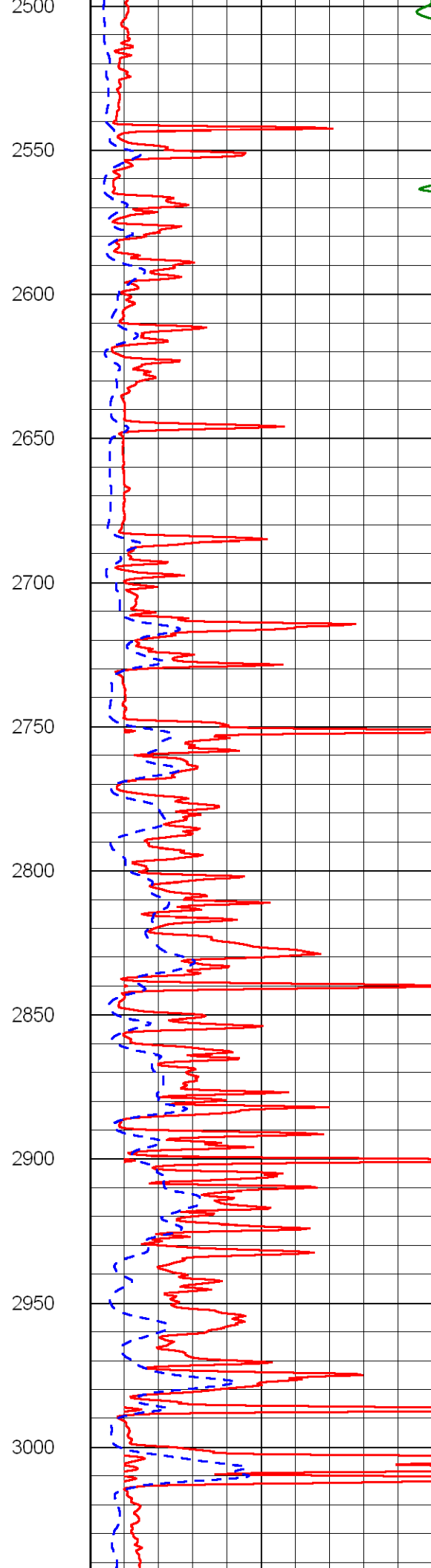
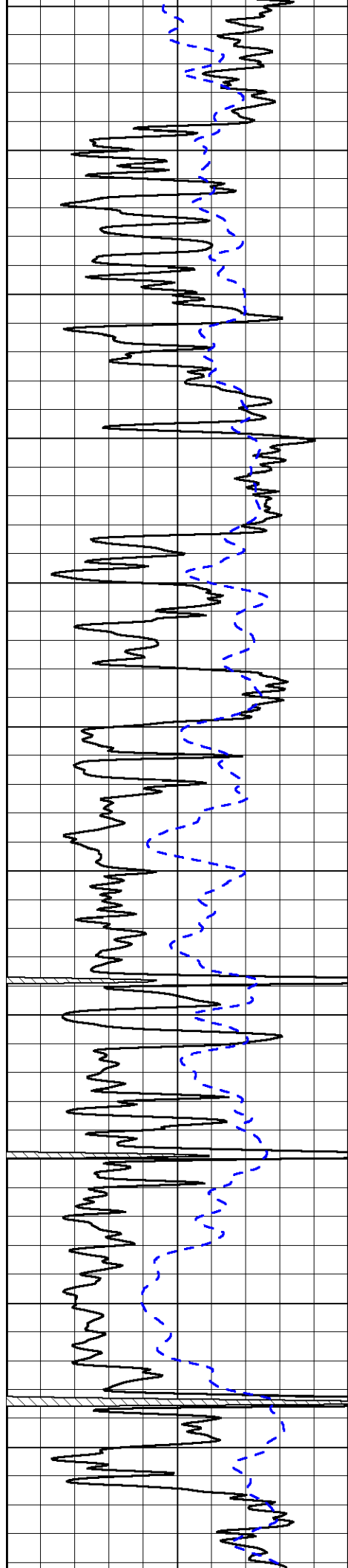
2350

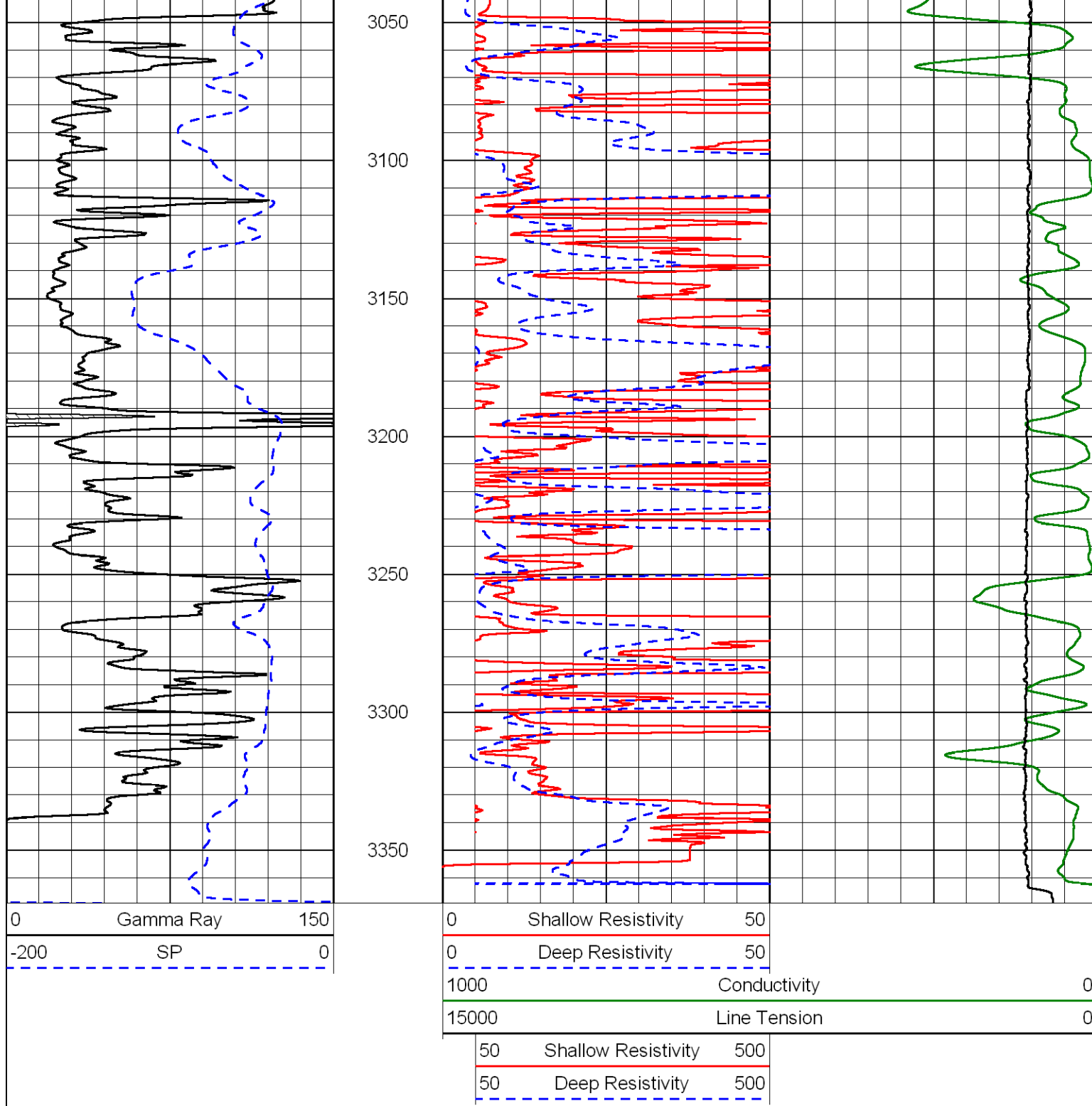
2400

2450

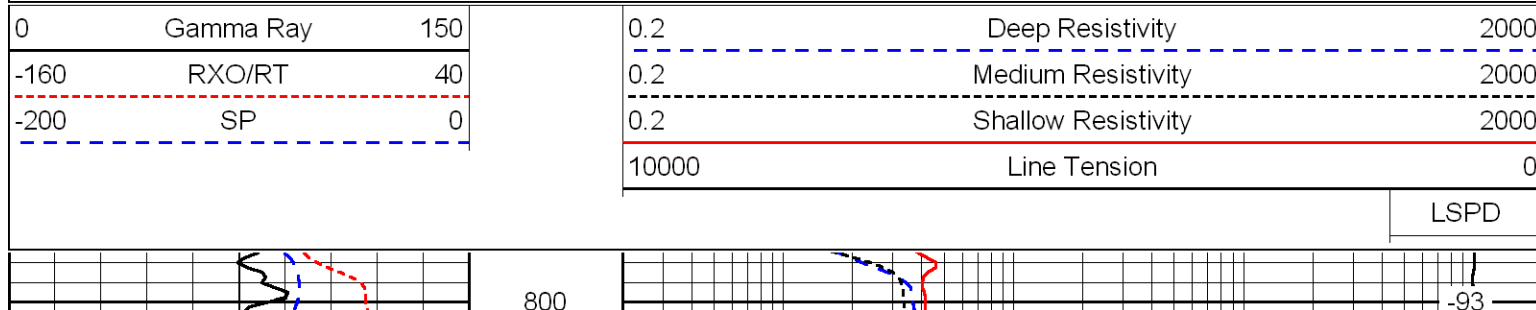
2500

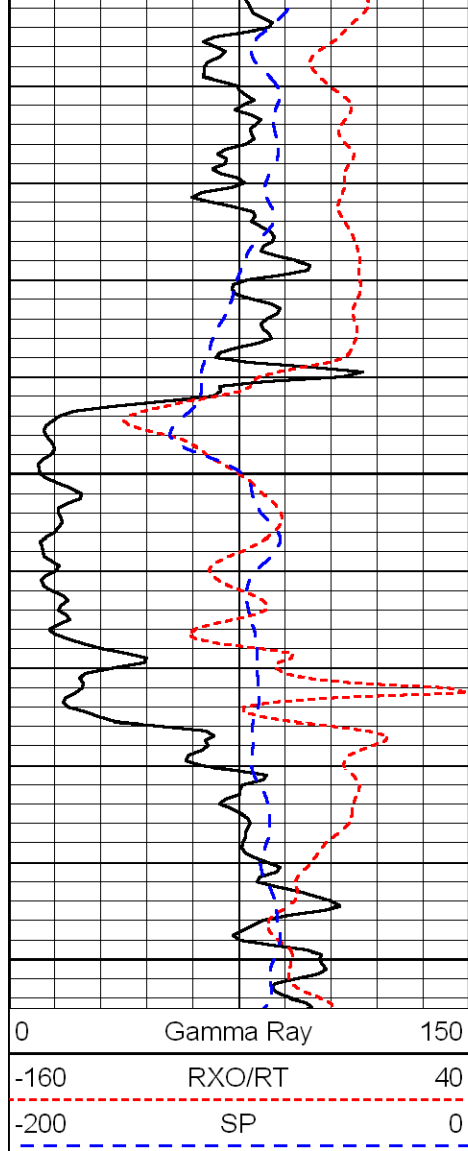






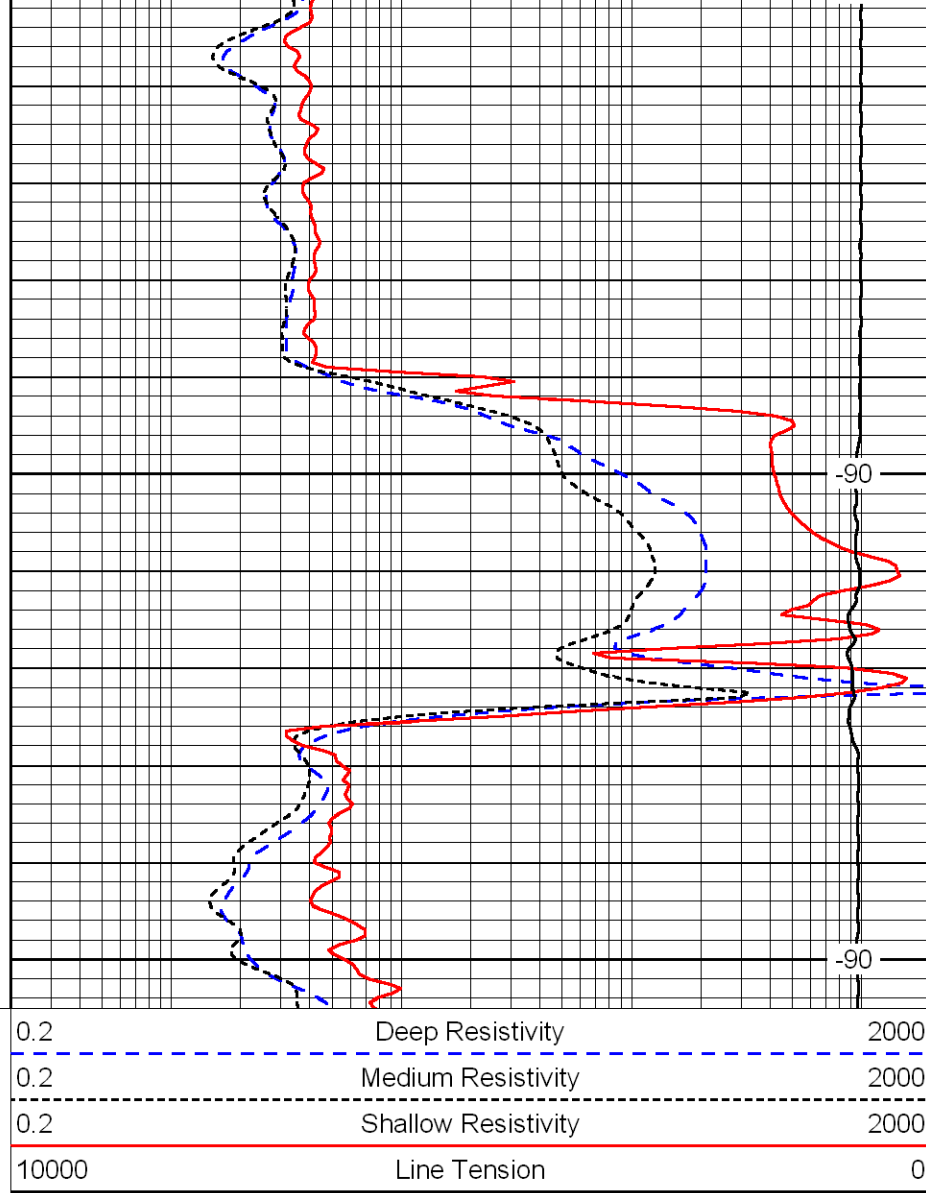
Database File: craig_110712hd.db
Dataset Pathname: dil/crgstack
Presentation Format: dil
Dataset Creation: Wed Nov 07 13:35:22 2012
Charted by: Depth in Feet scaled 1:240





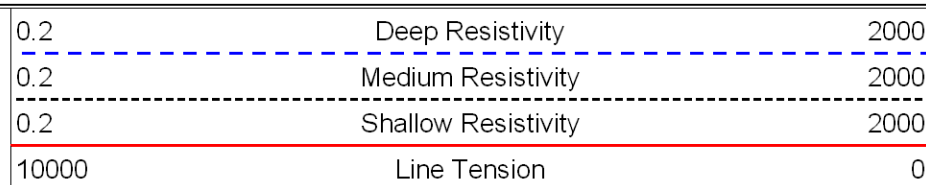
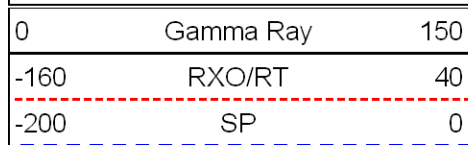
850

900

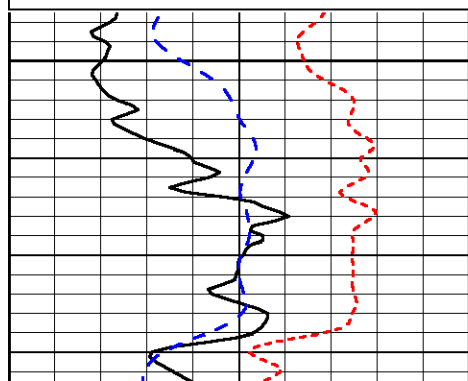


LSPD

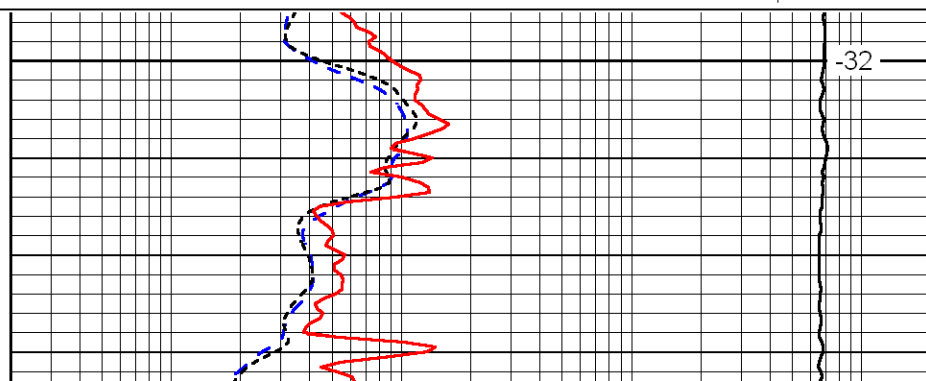
Database File: craig_110712hd.db
 Dataset Pathname: dil/crgstack
 Presentation Format: dil
 Dataset Creation: Wed Nov 07 13:35:22 2012
 Charted by: Depth in Feet scaled 1:240



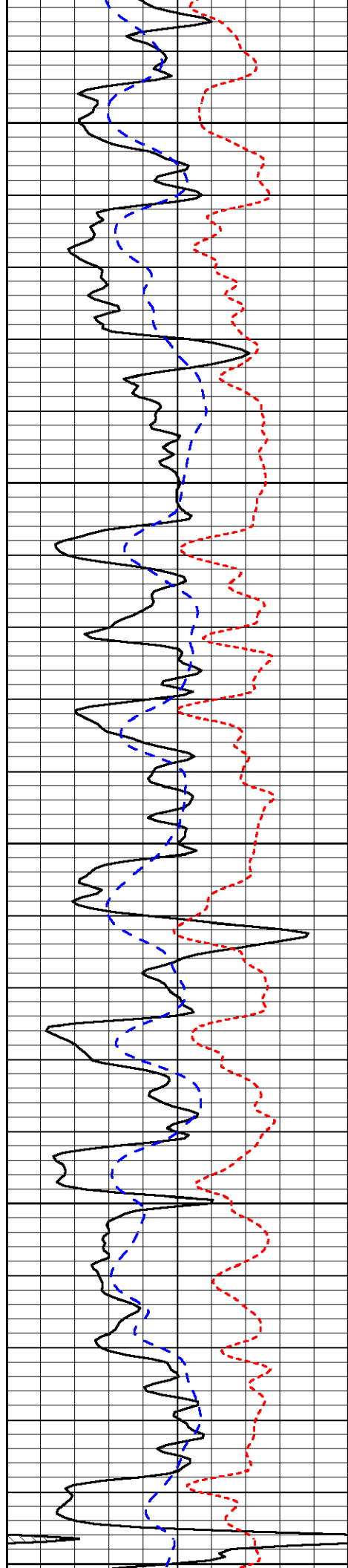
LSPD



1900



-32



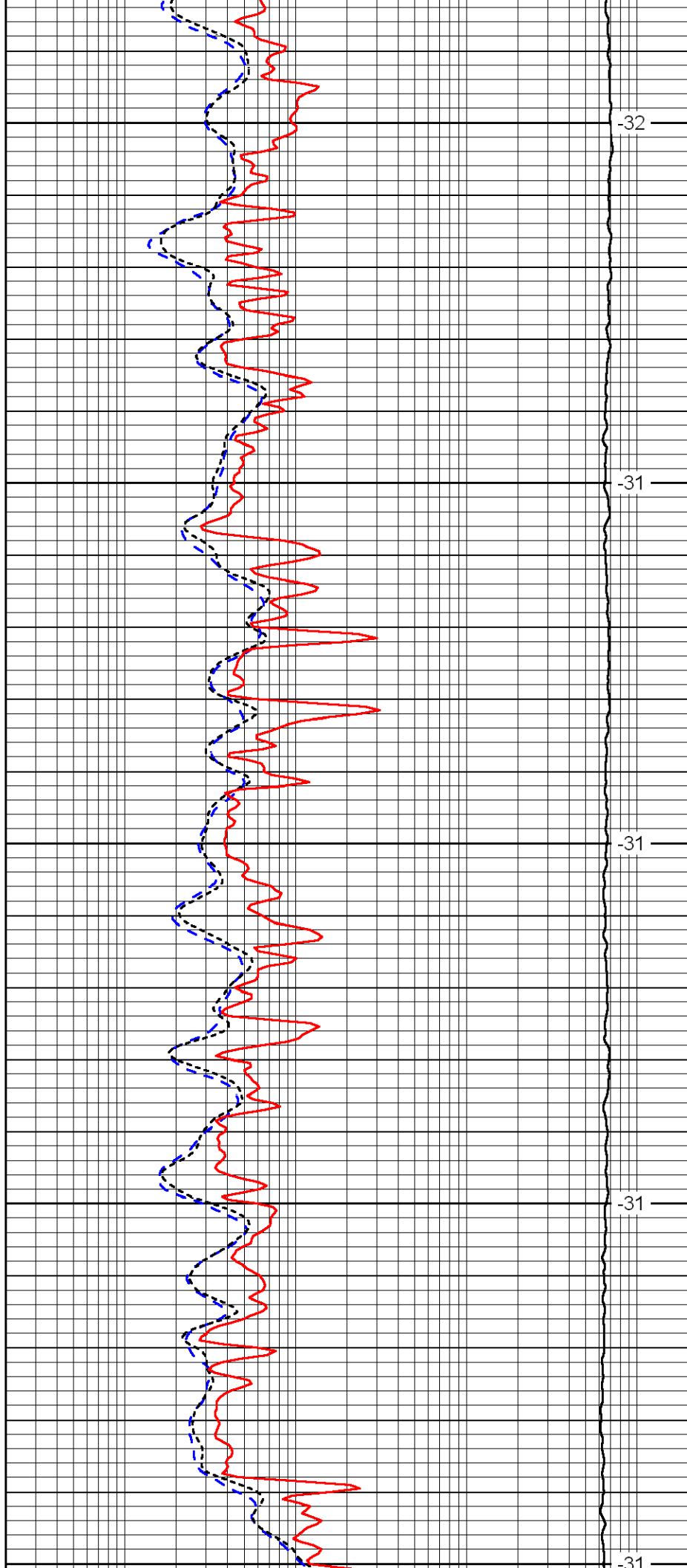
1950

2000

2050

2100

2150



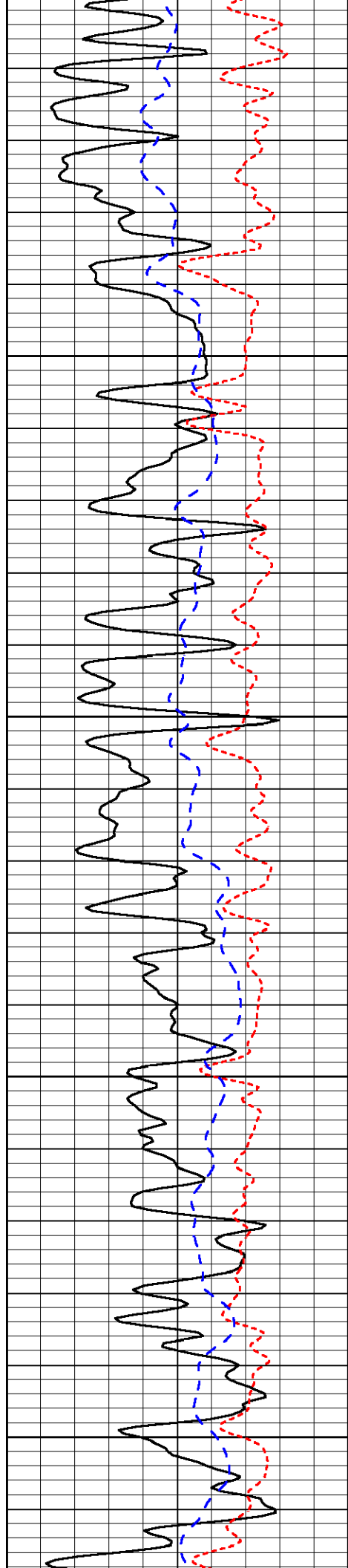
32

31

31

31

31

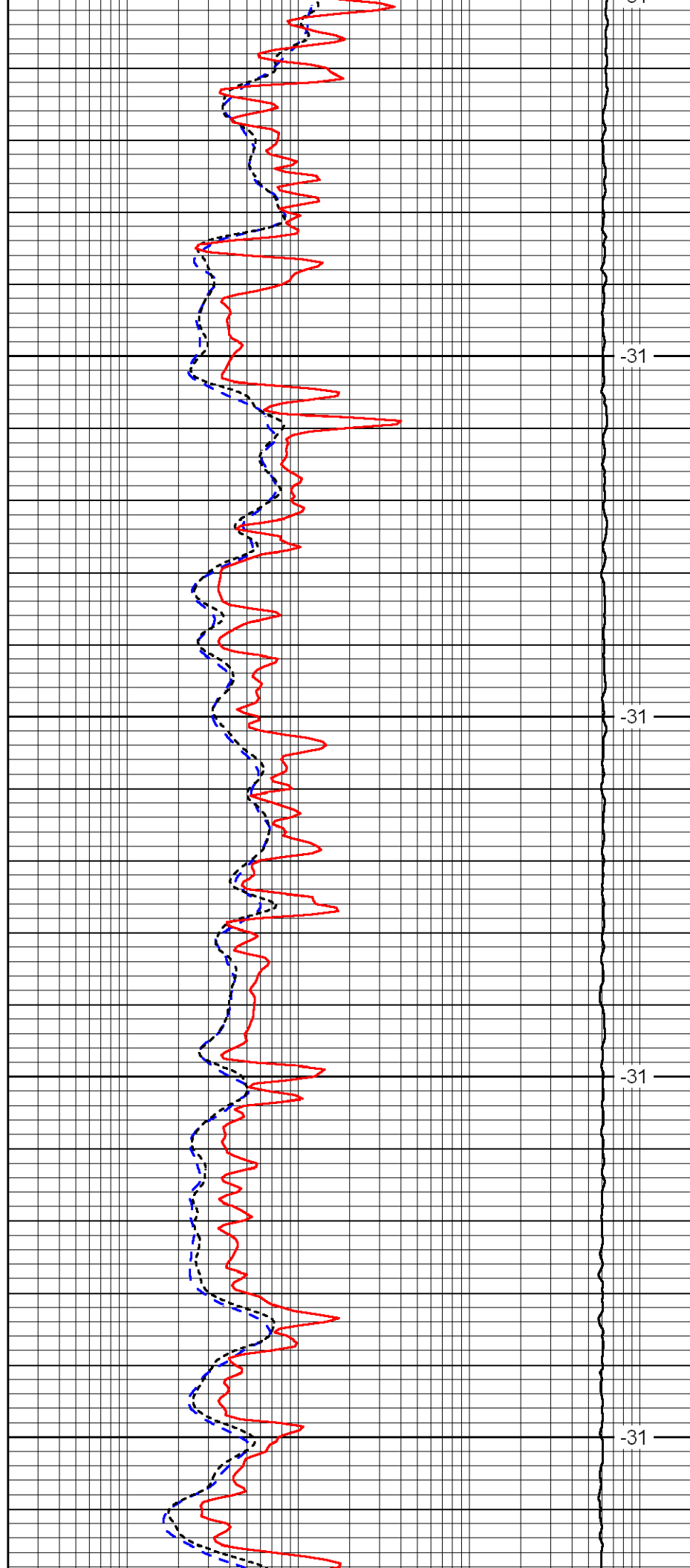


2200

2250

2300

2350

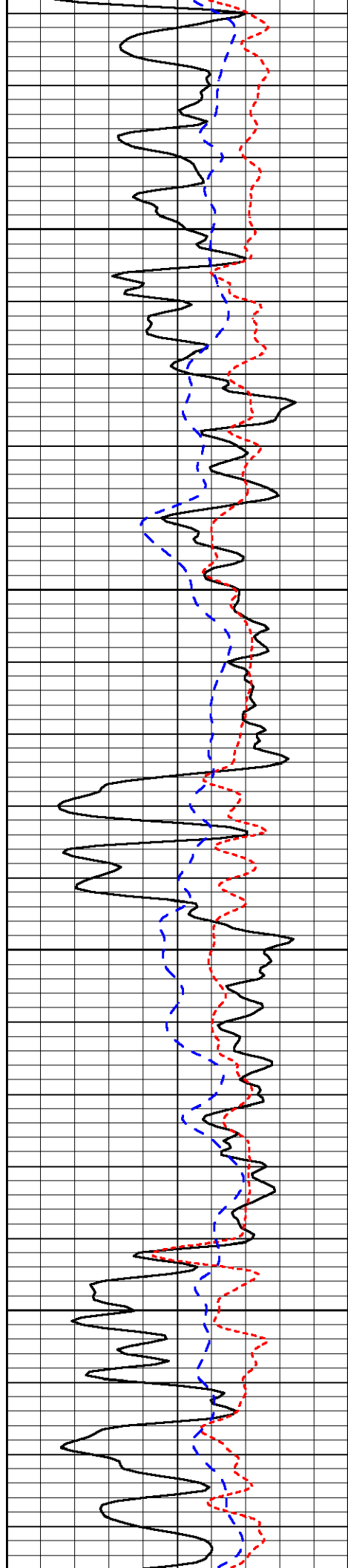


-31

-31

-31

-31

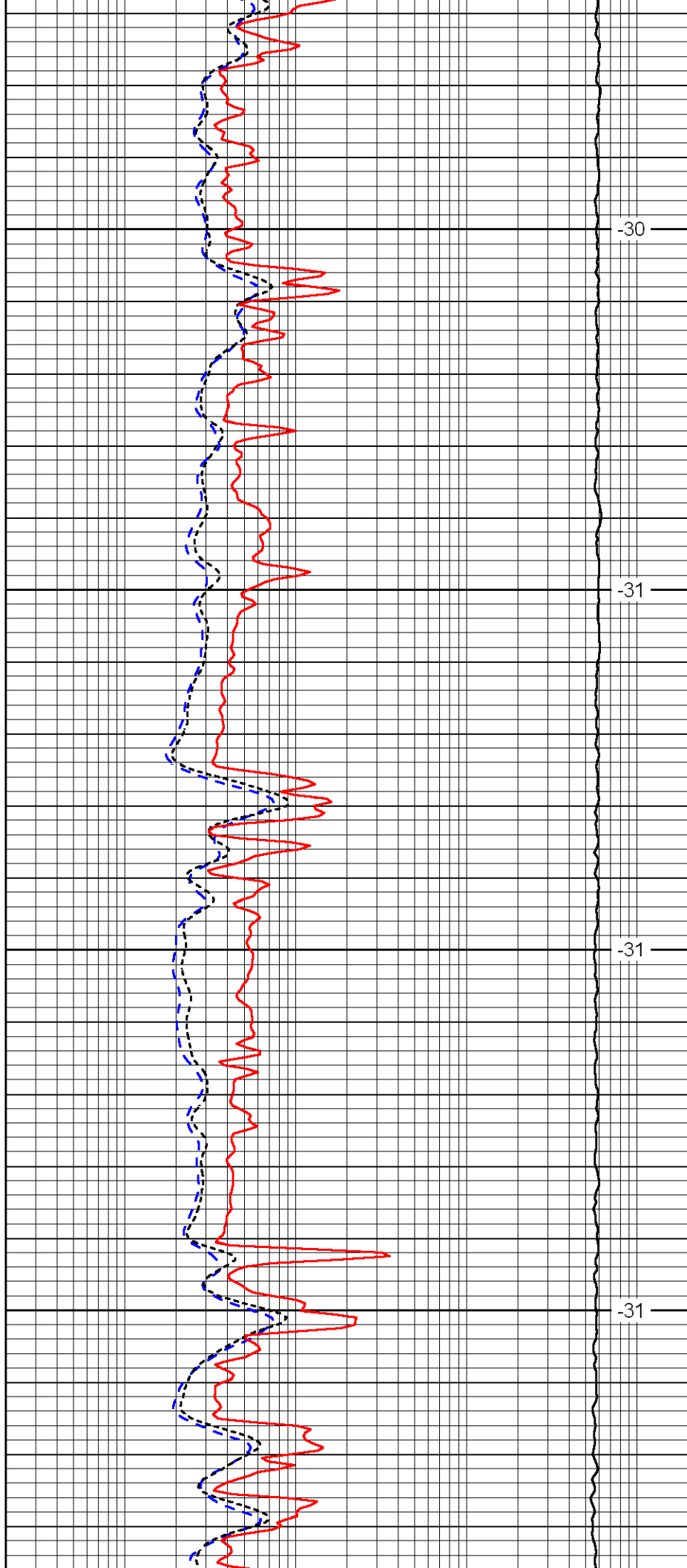


2400

2450

2500

2550

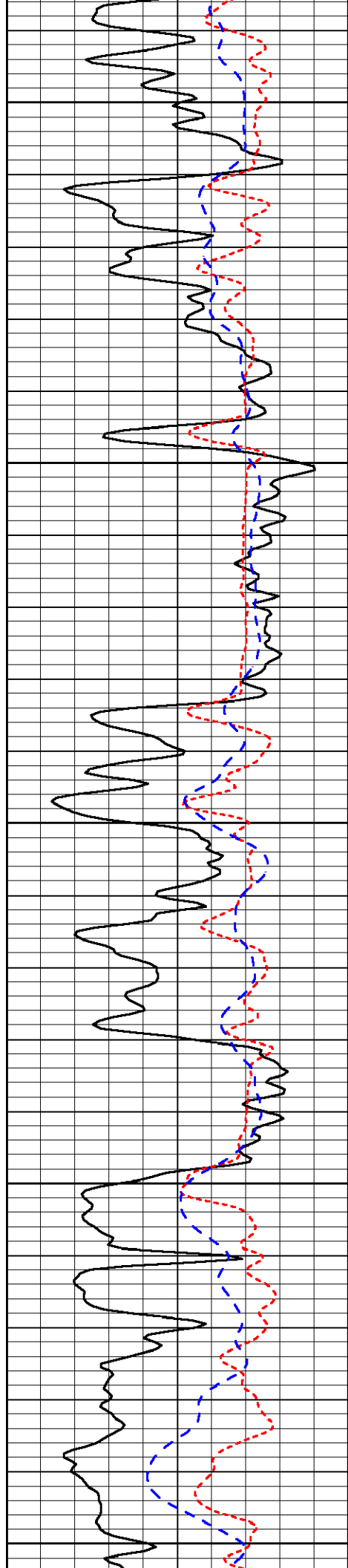


-30

-31

-31

-31



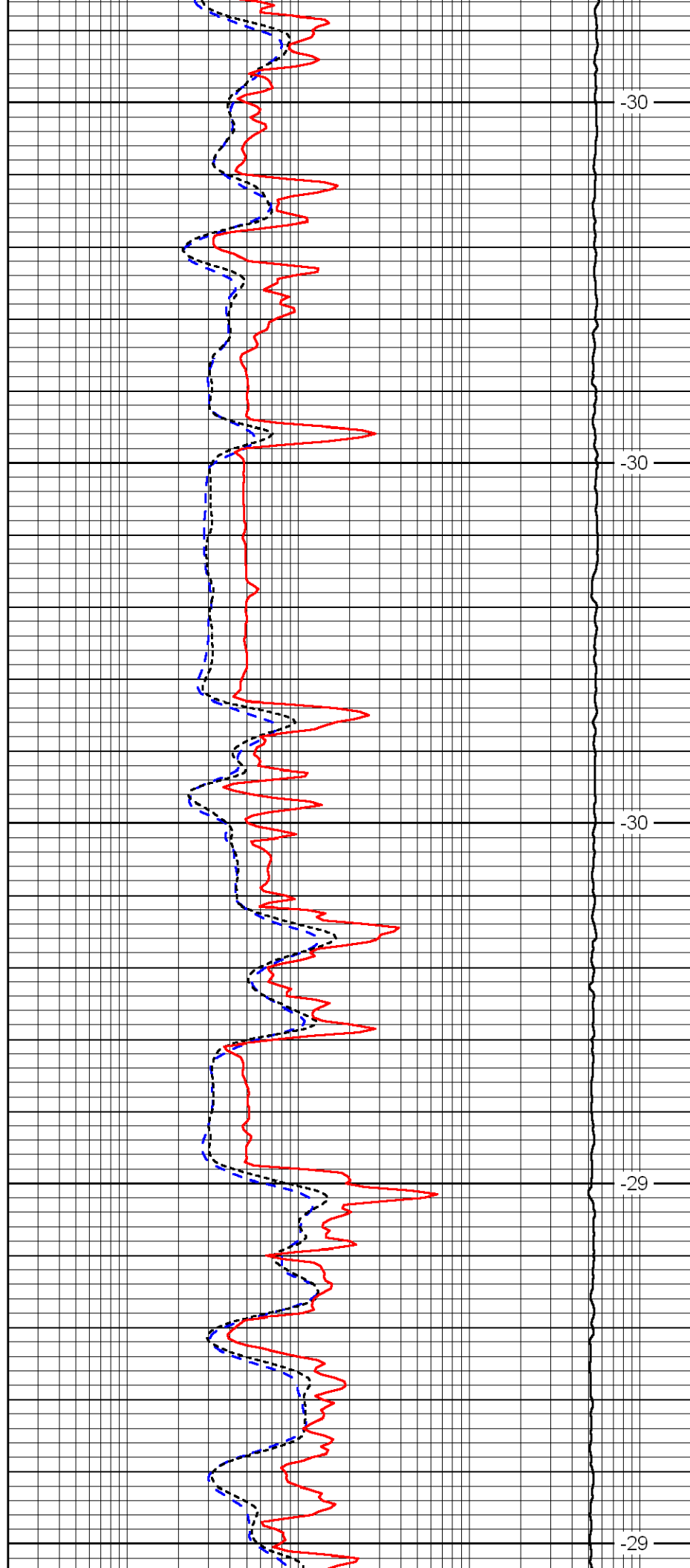
2600

2650

2700

2750

2800



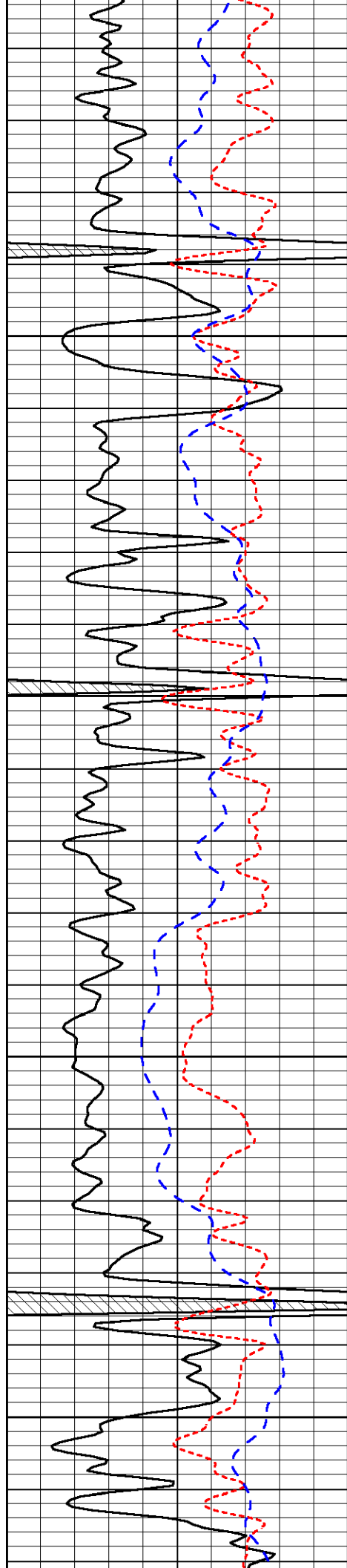
-30

-30

-30

-29

-29

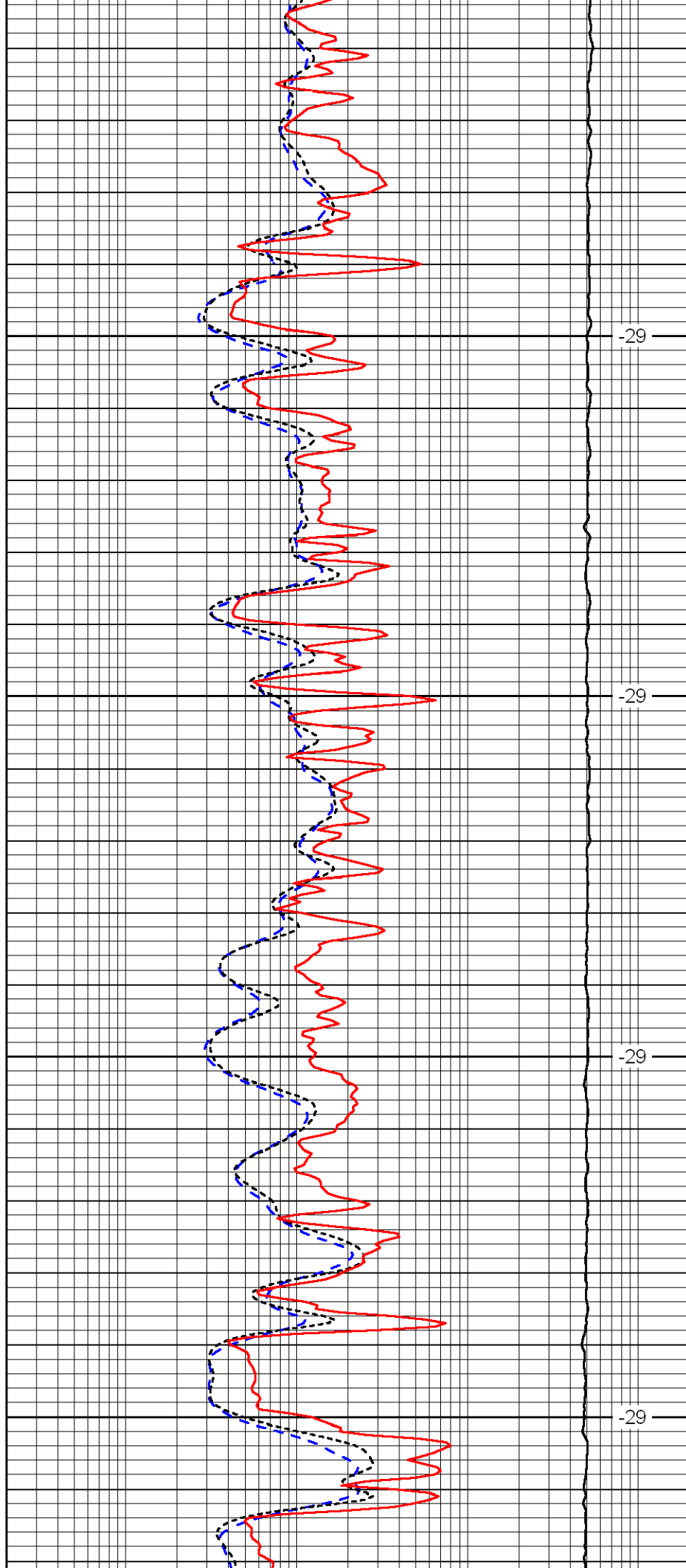


2850

2900

2950

3000

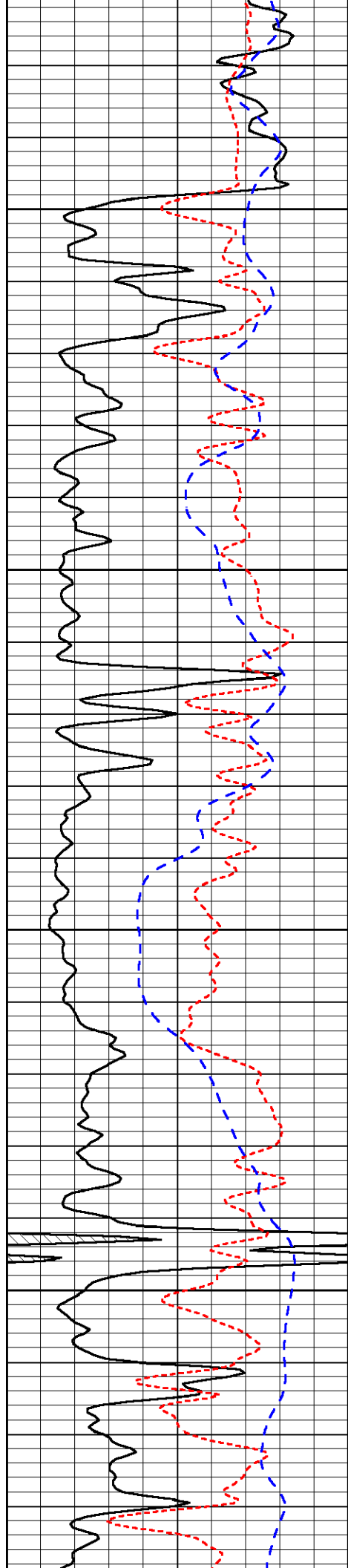


-29

-29

-29

-29

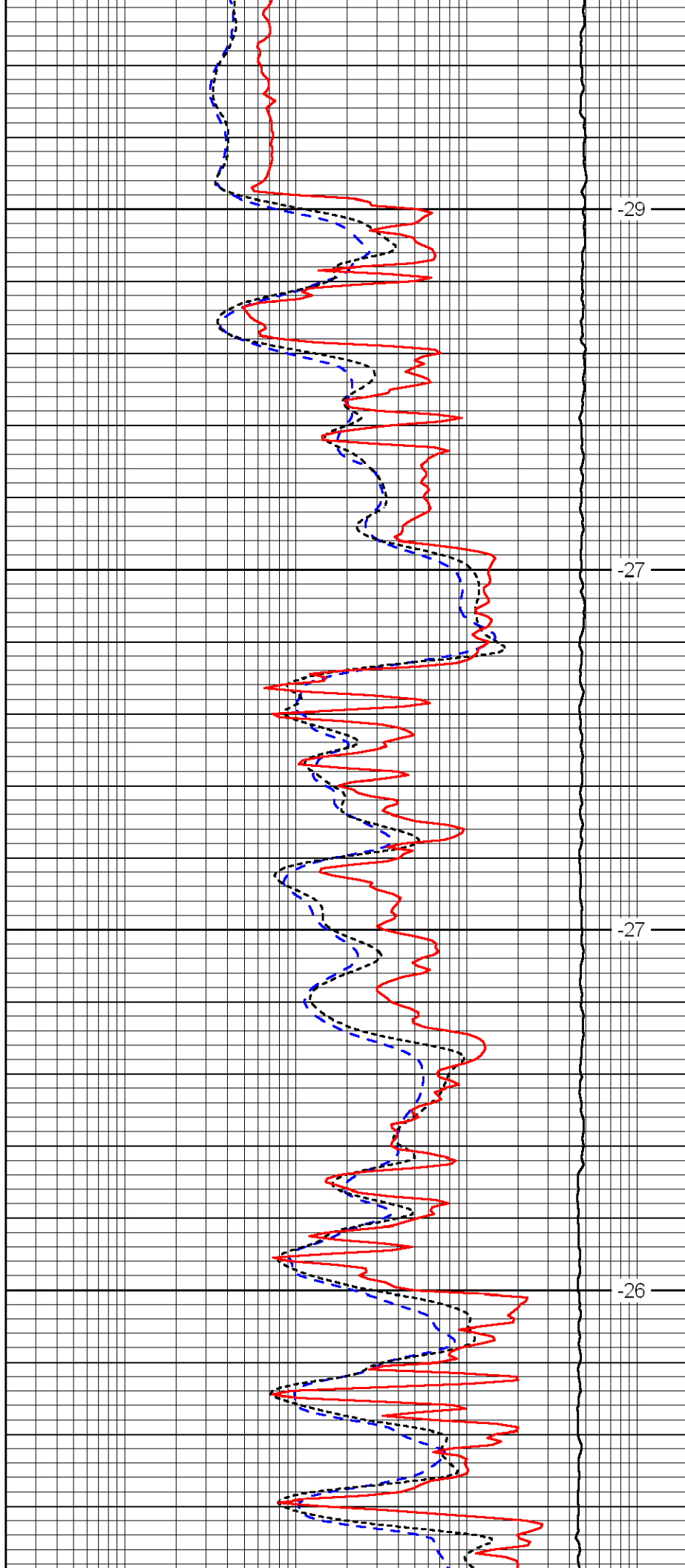


3050

3100

3150

3200

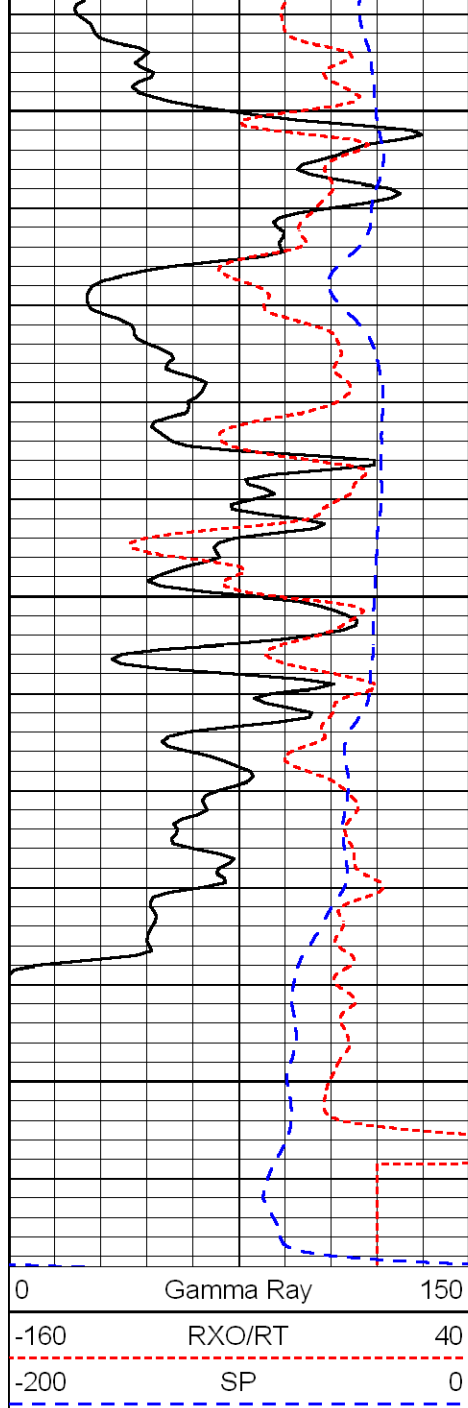


-29

-27

-27

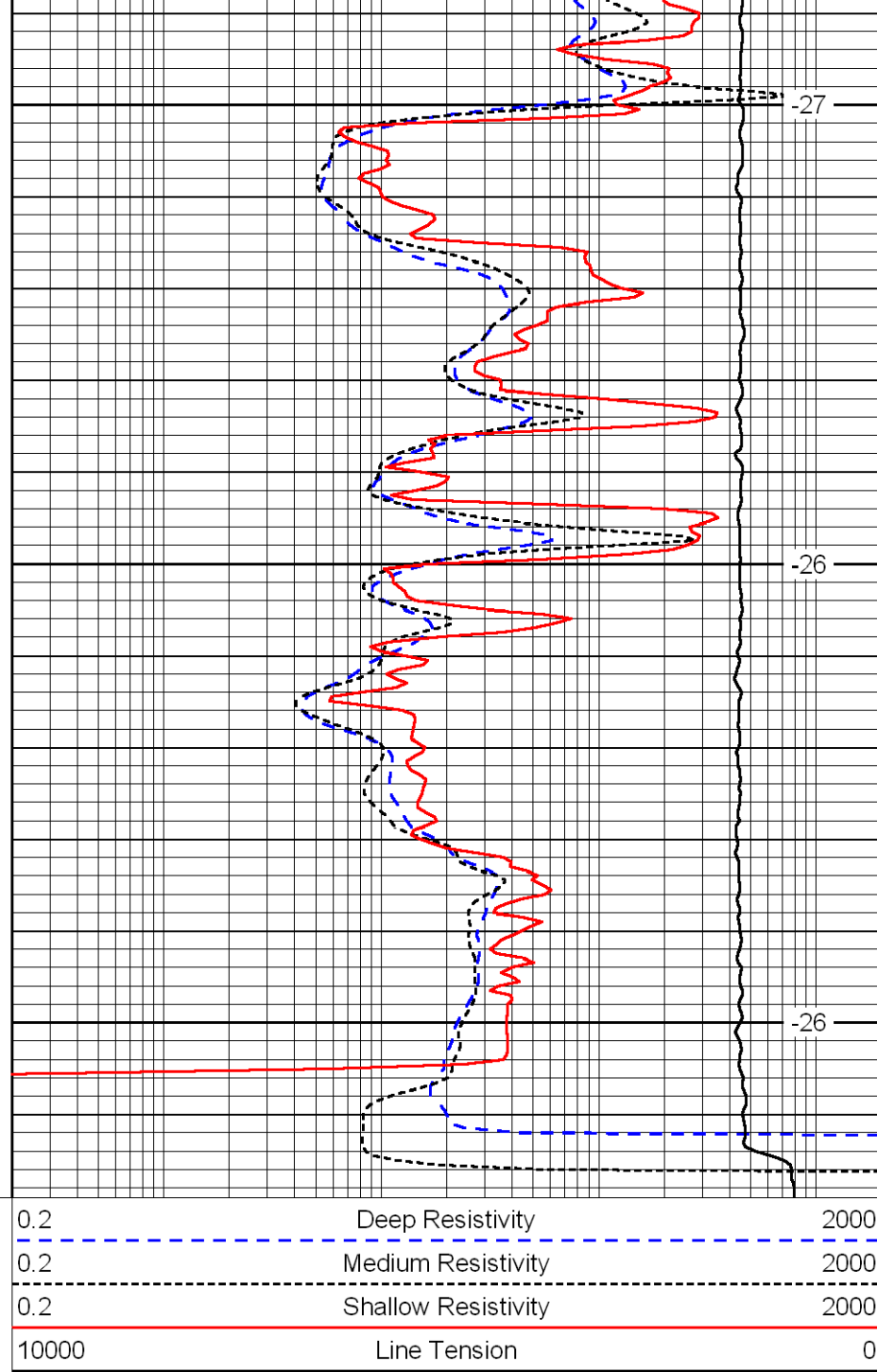
-26



3250

3300

3350



-27

-26

-26

LSPD