



Dual Induction Log

DIGITAL LOG

(785) 625-3858

API No.

15-169-20332-00-00

Company Range Oil Company, Inc.

Well Heller #1

Field Hunter

County Saline State

Kansas

Location

NW SW SE
900' FSL / 2400' FEL

Other Services
CNL / CDL

Sec: 17 Twp: 16S Rge: 1W

Permanent Datum Ground Level Elevation 1334
Log Measured From Kelly Bushing 10 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Elevation
K.B. 1344
D.F. 1334
G.L. 1334

Date

3/21/2012

Run Number

One

Depth Driller

2740

Depth Logger

2741

Bottom Logged Interval

2740

Top Log Interval

200

Casing Driller

8.625 @ 224

Casing Logger

222

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

1400

Density / Viscosity

9.4 56
9.5 8.0

pH / Fluid Loss

Flowline

Source of Sample

1.10 @ 67

Rm @ Meas. Temp

0.83 @ 67

Rmf @ Meas. Temp

1.49 @ 67

Rmc @ Meas. Temp

Charts

Source of Rmf / Rmc

0.71 @ 103

Rm @ BHT

3 Hours

Operating Rig Time

103

Max Rec. Temp. F

15

Equipment Number

Hays

Location

R. Barnhart

Recorded By

Roger Martin

Witnessed By

John Washburn

<<< 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

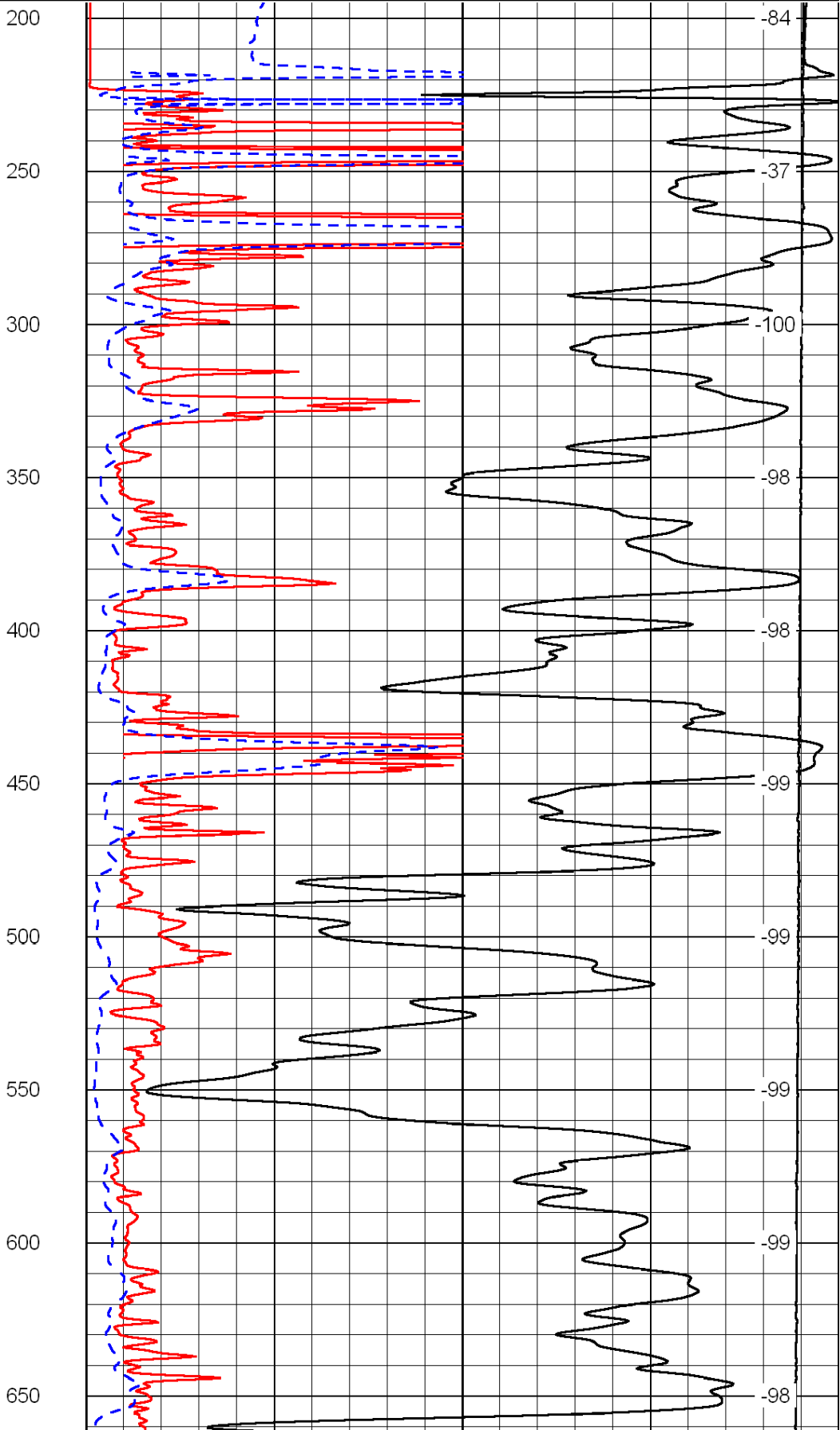
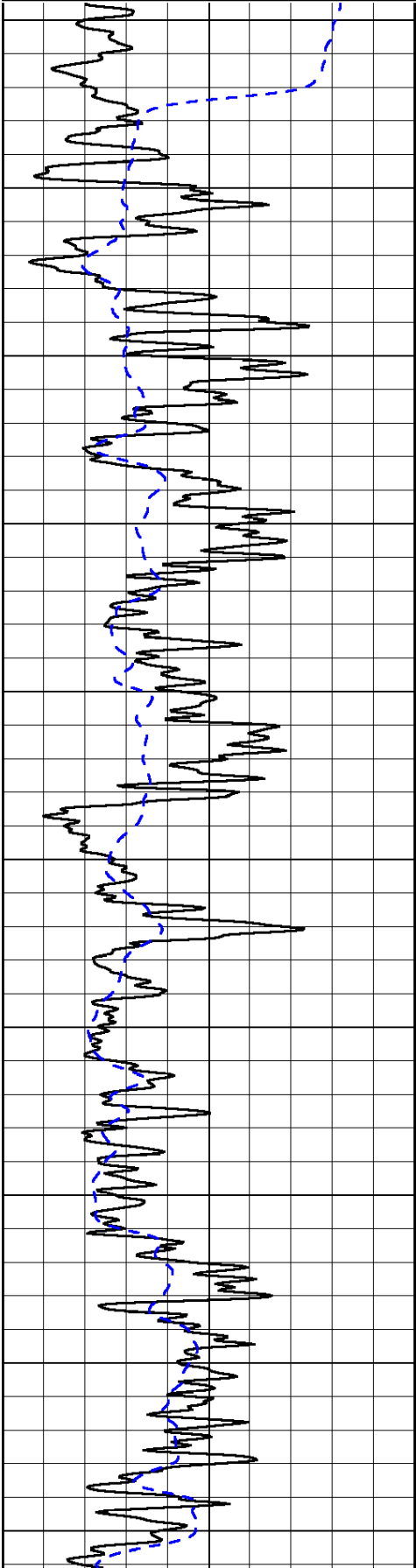
Thank you for using Log-Tech, Inc.
(785) 625-3858
Gypsum, KS:
2 1/4S thru town on Gypsum Valley Rd.
to Hedburg Rd., 2W to Witmore Rd., 1S to
Lapsley Rd., 1/2E, N into

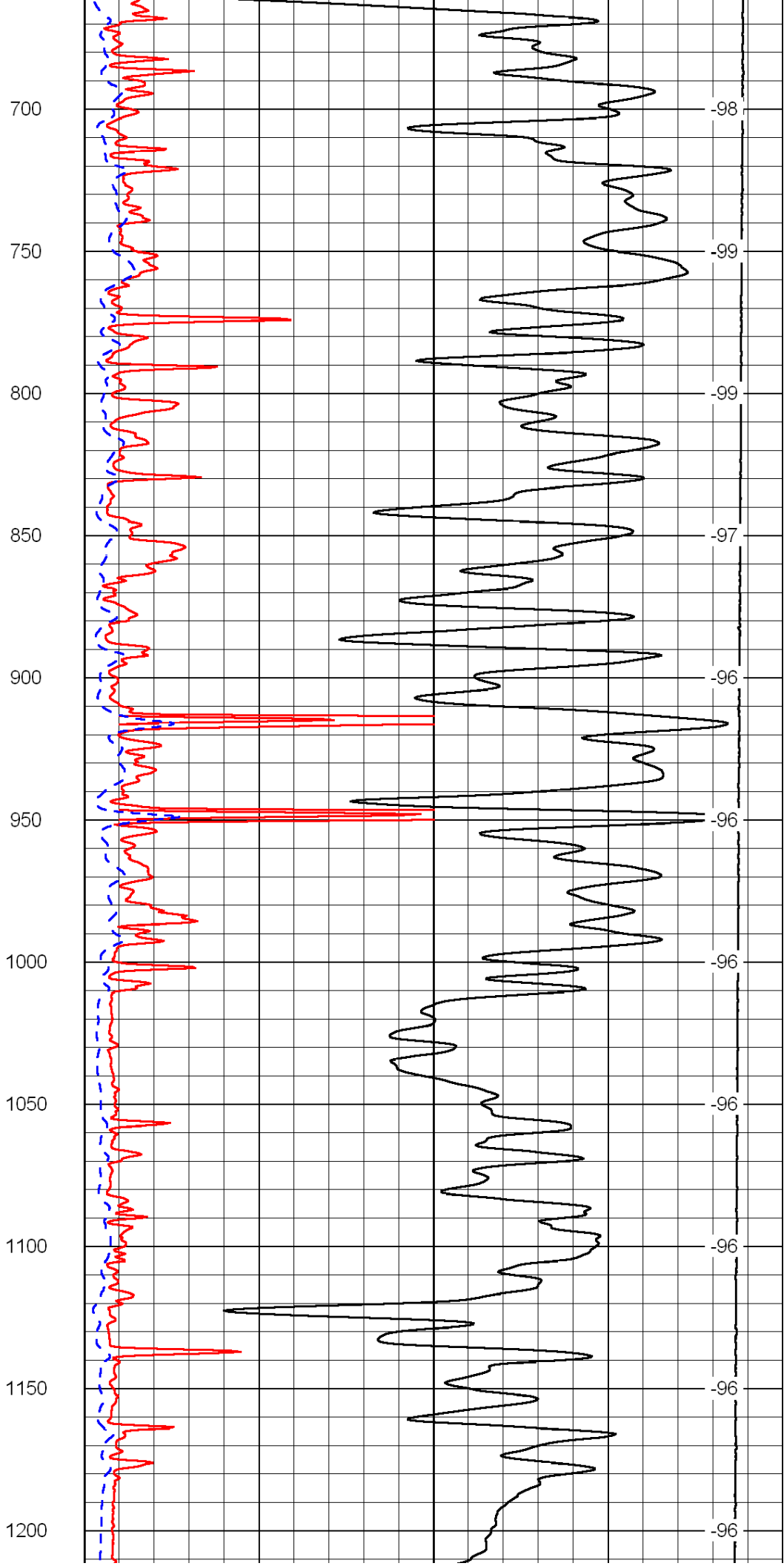
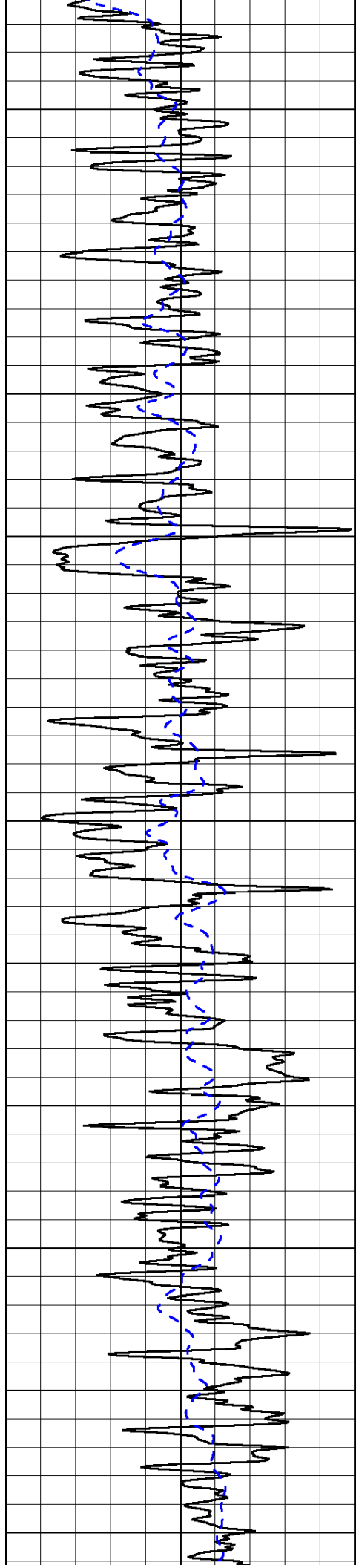
Database File: c:\warrior\data\range_heller #1\rangehd.db
Dataset Pathname: dil/rngmain
Presentation Format: dil2in
Dataset Creation: Wed Mar 21 09:19:11 2012
Charted by: Depth in Feet scaled 1:600

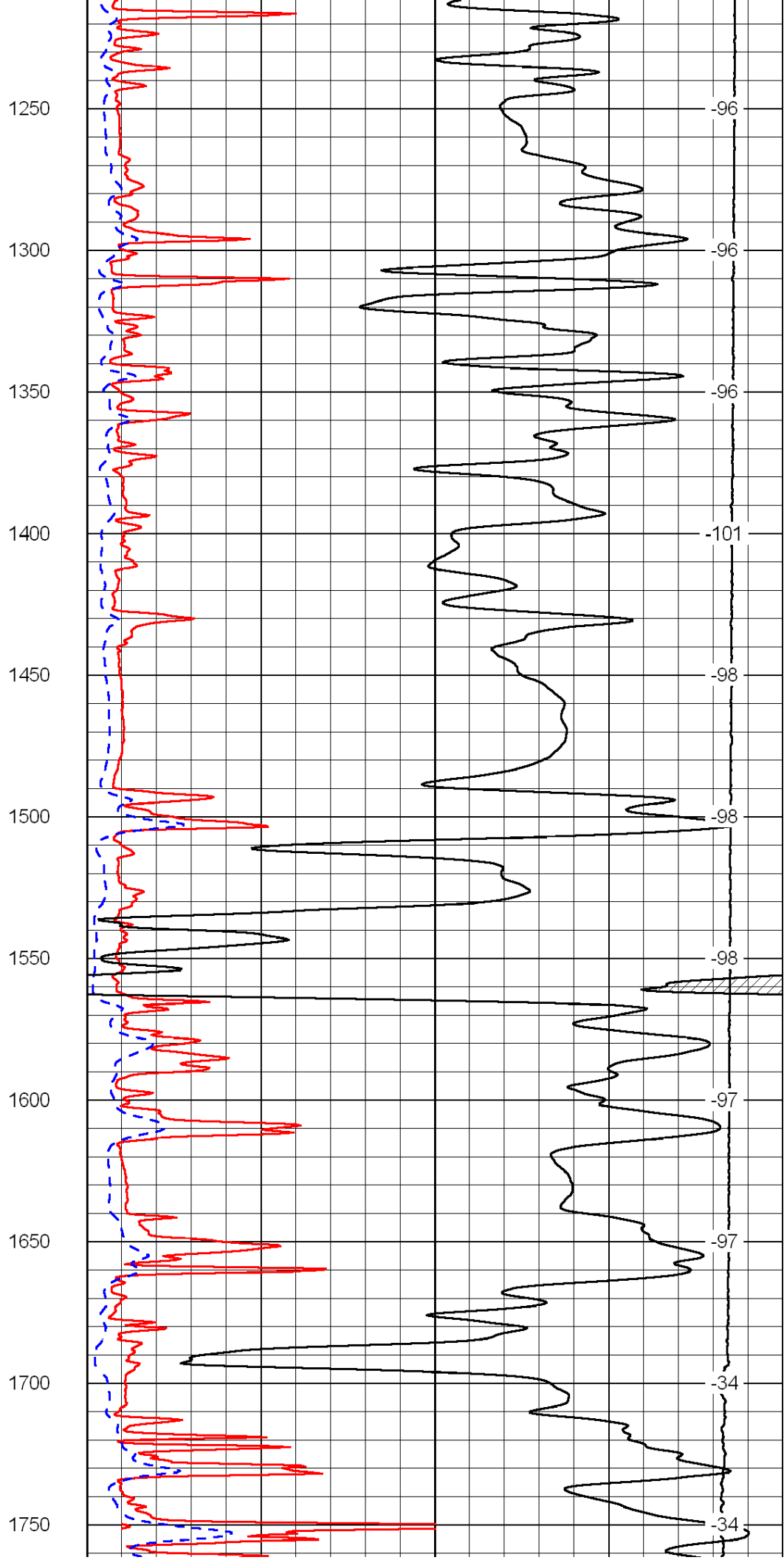
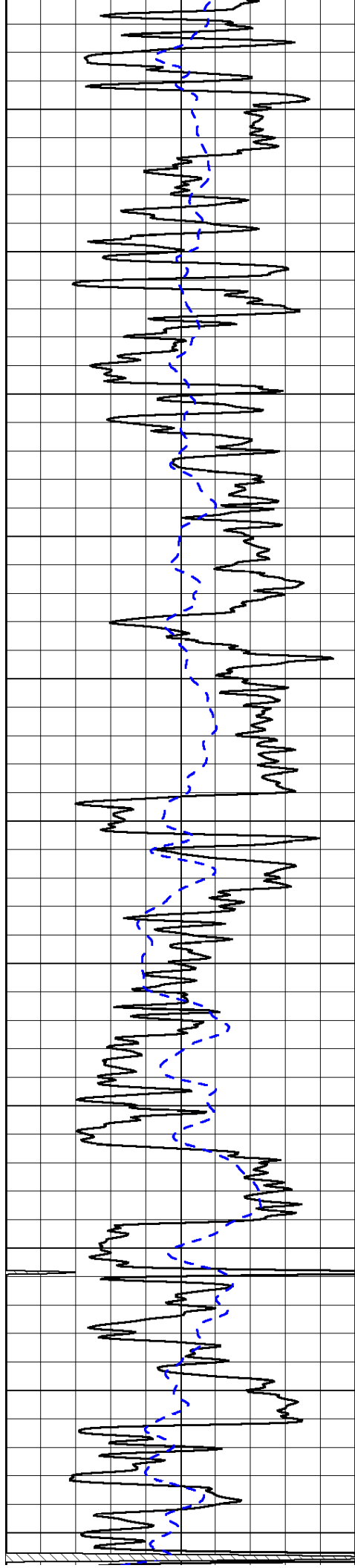
0	Gamma Ray	150
-200	SP (mV)	0

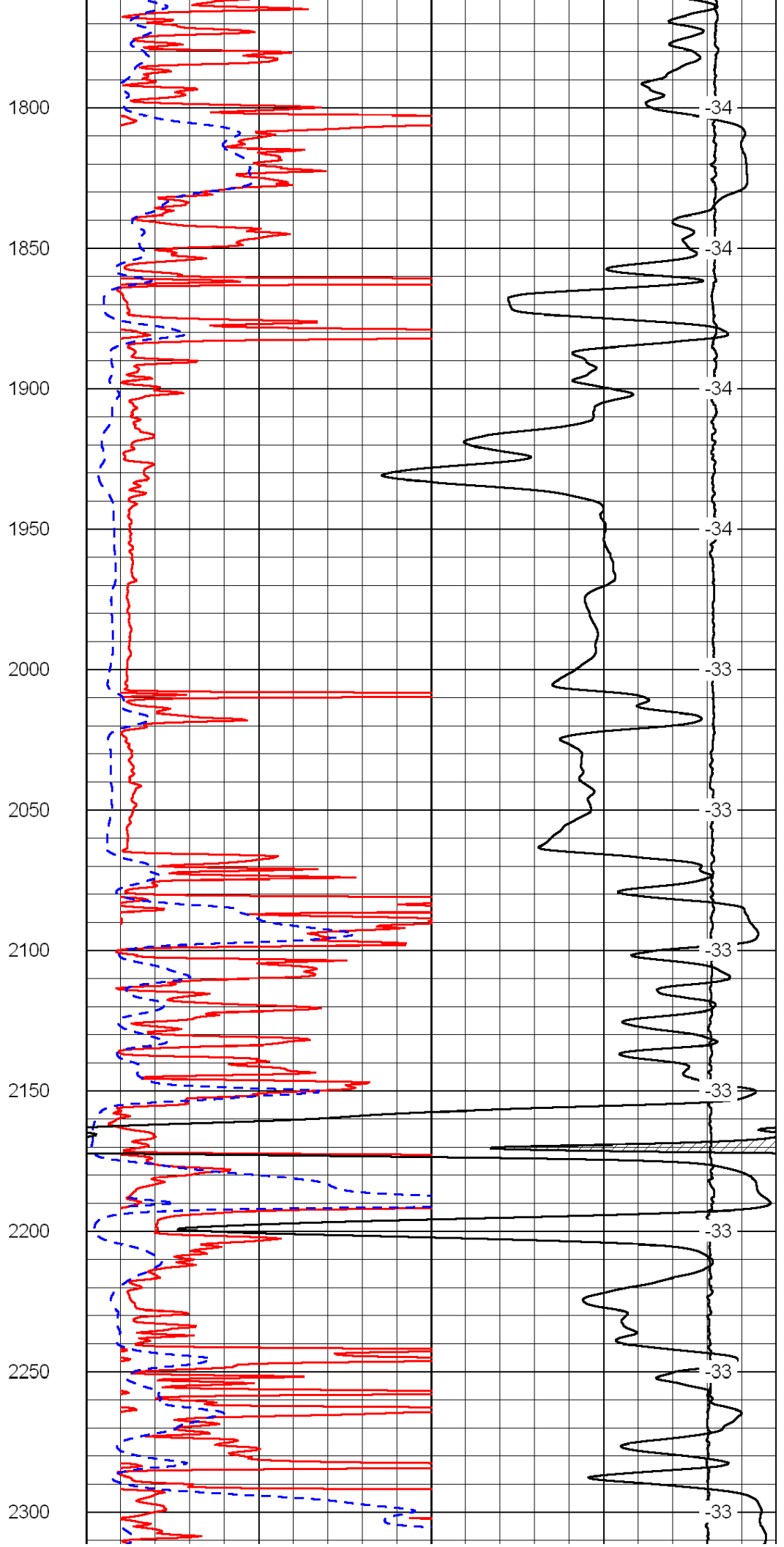
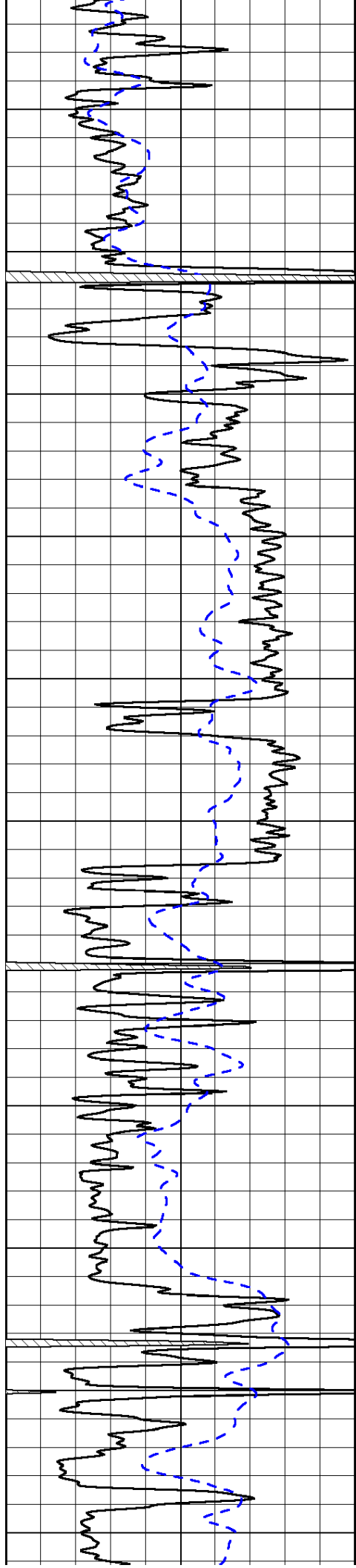
0	Shallow Resistivity	50
0	Deep Resistivity	50
1000	Conductivity	0
15000	Line Tension	0
50	Shallow Resistivity	500
50	Deep Resistivity	500

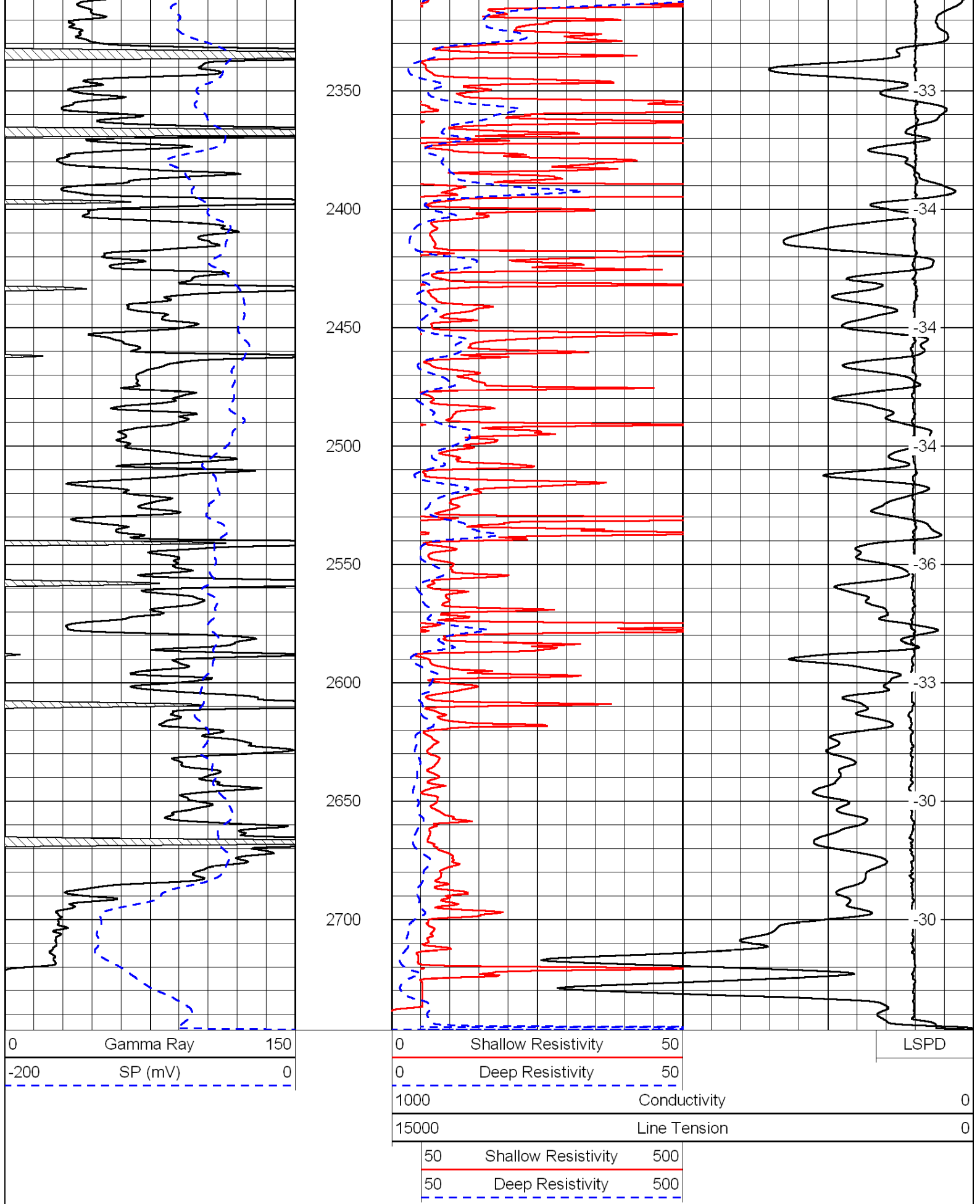
LSPD
0
0







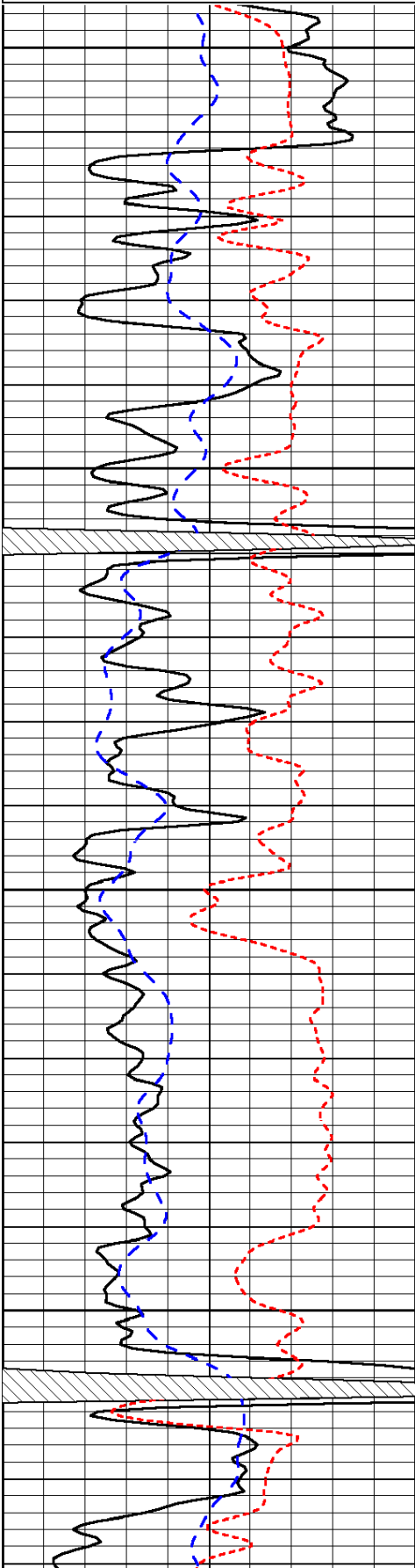




0	Gamma Ray	150
-200	SP (mV)	0
-160	Rxo / Rt	40

0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
15000	Line Tension	0

LSPD

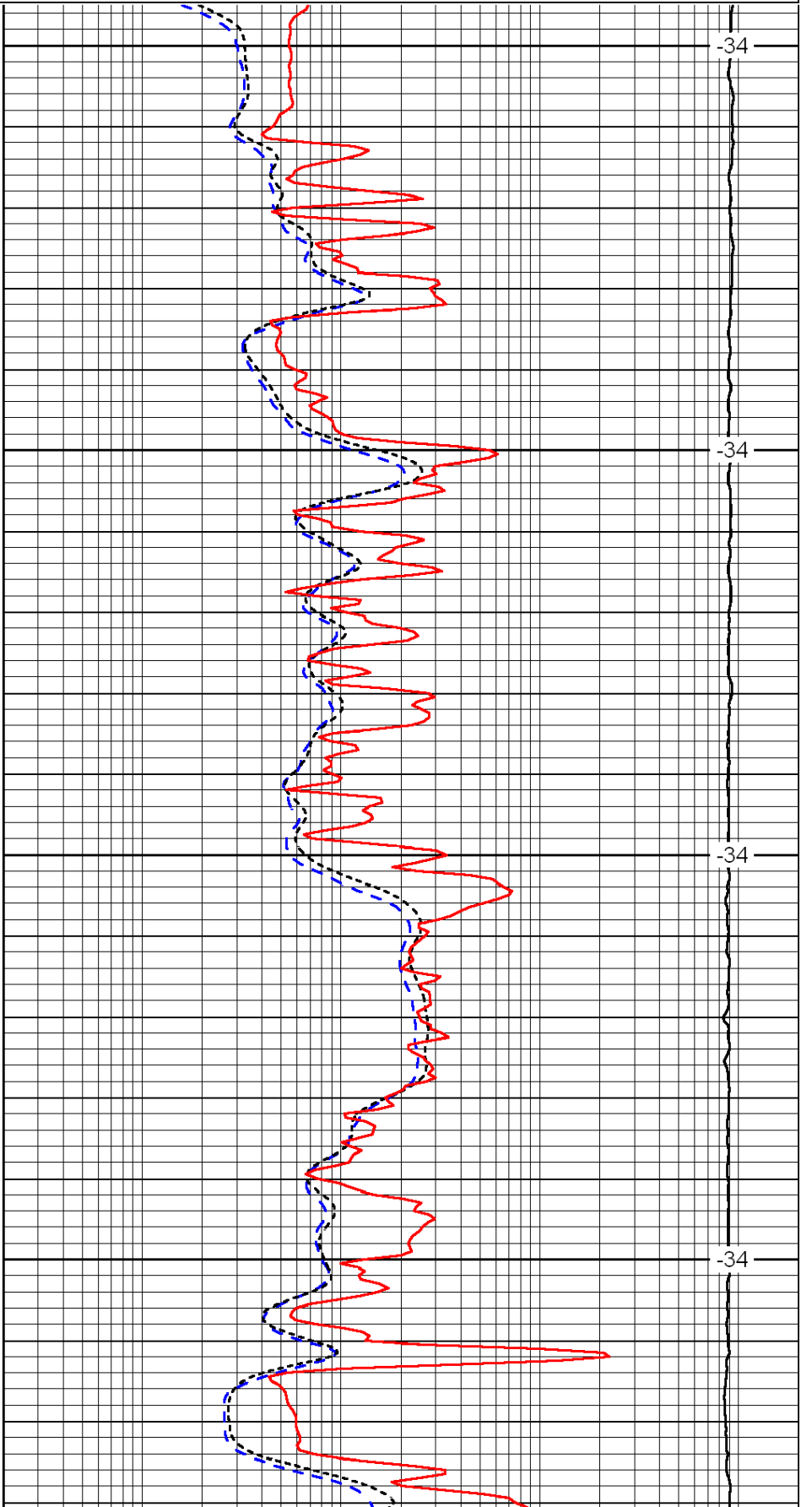


1700

1750

1800

1850

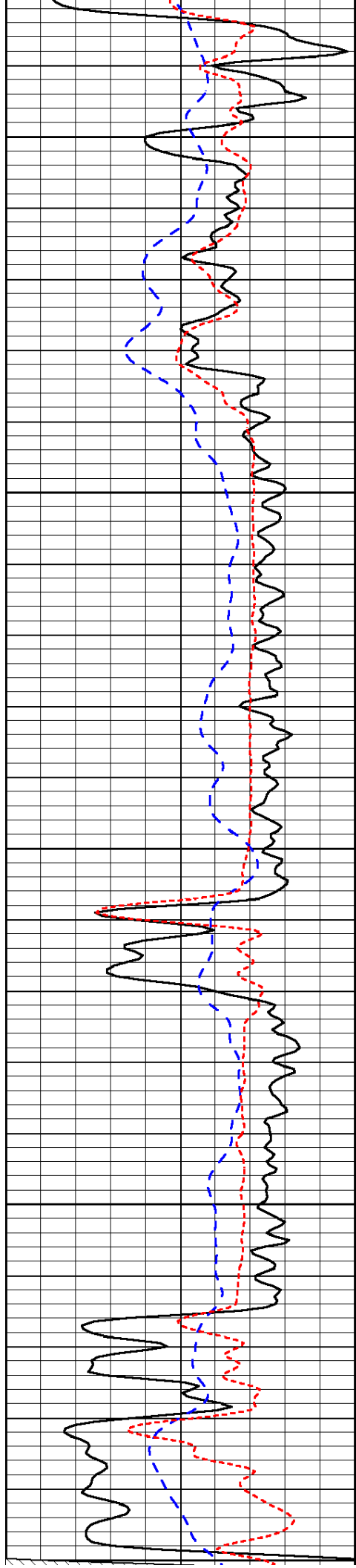


-34

-34

-34

-34



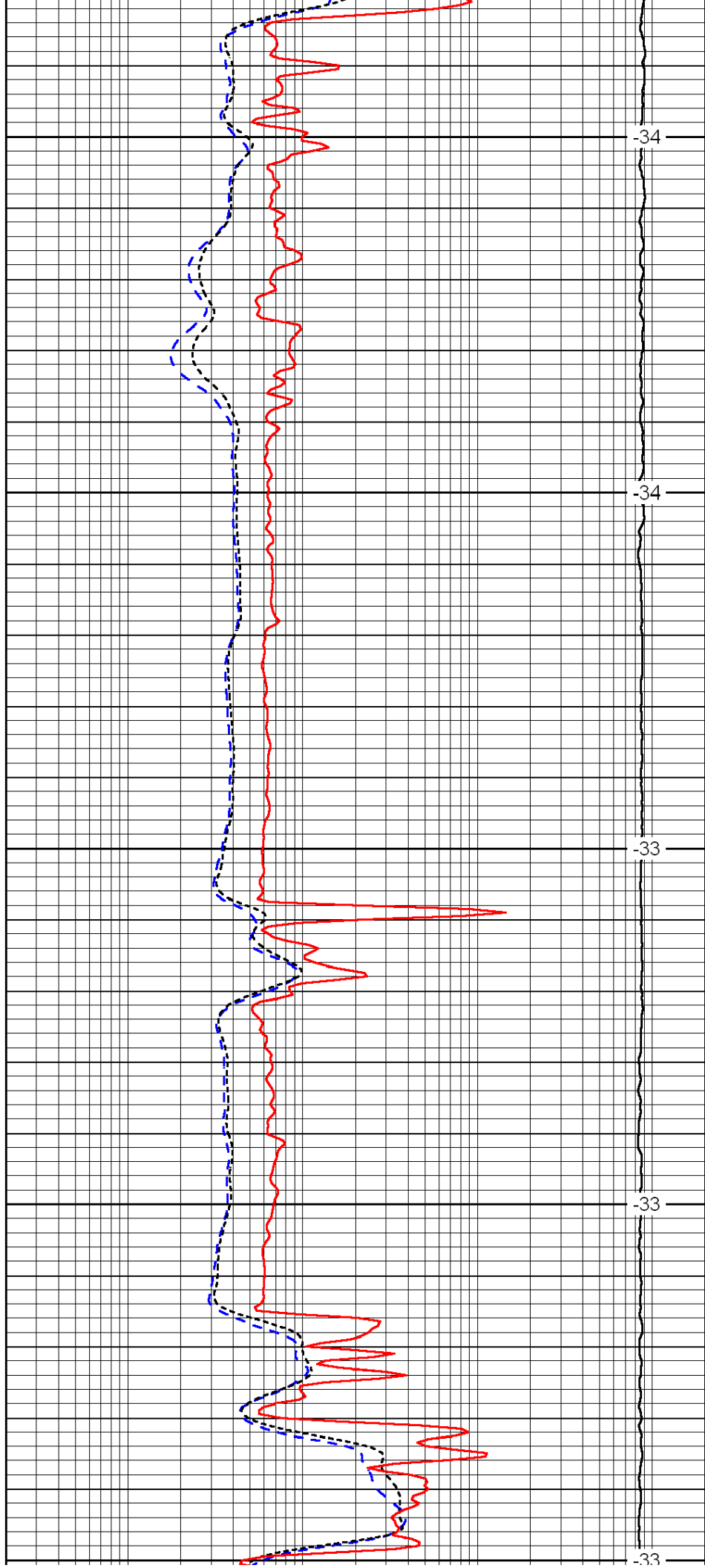
1900

1950

2000

2050

2100



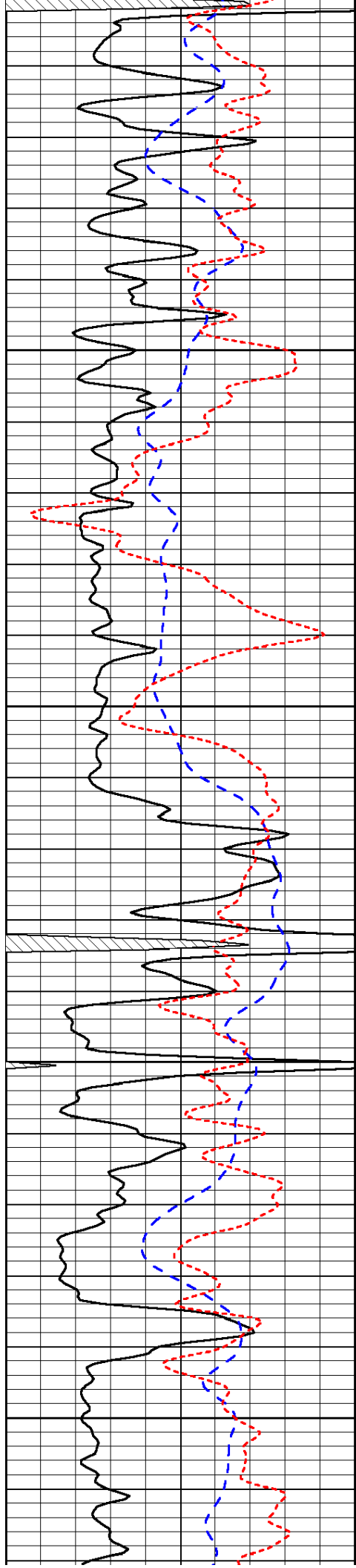
-34

-34

-33

-33

-33

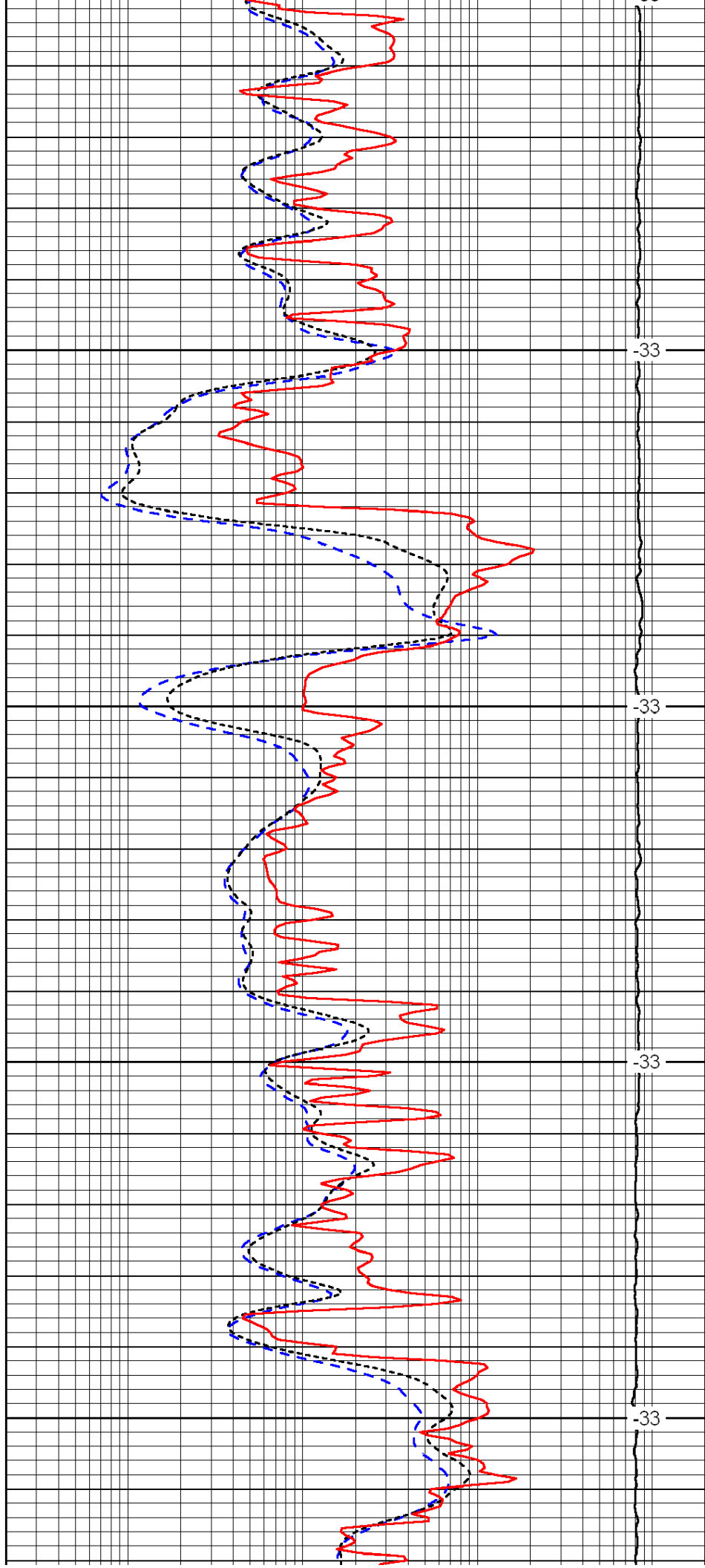


2150

2200

2250

2300

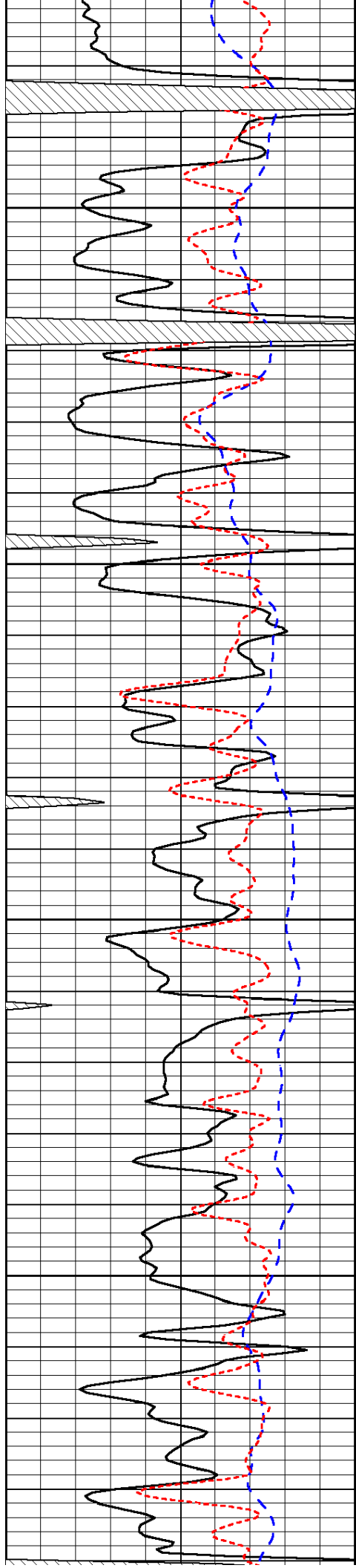


-33

-33

-33

-33

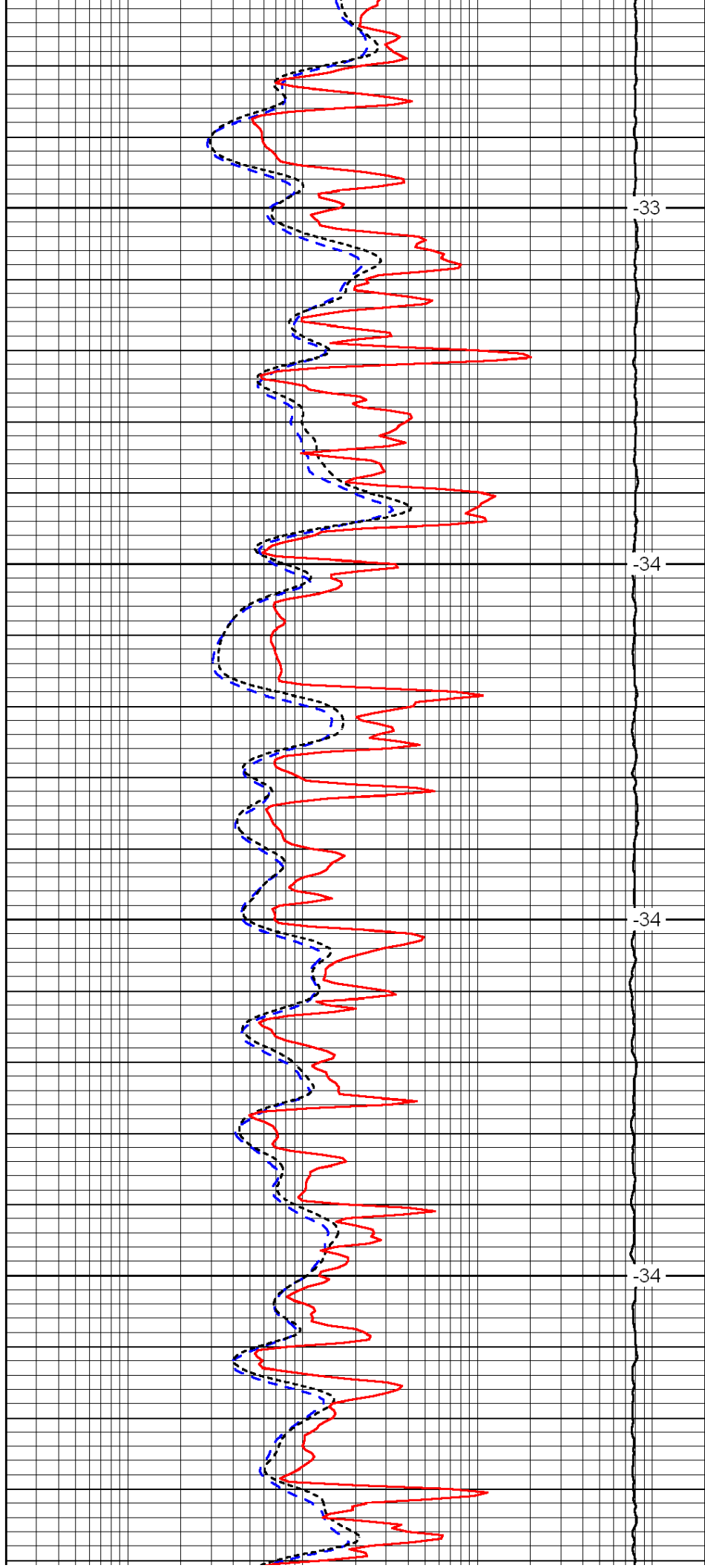


2350

2400

2450

2500

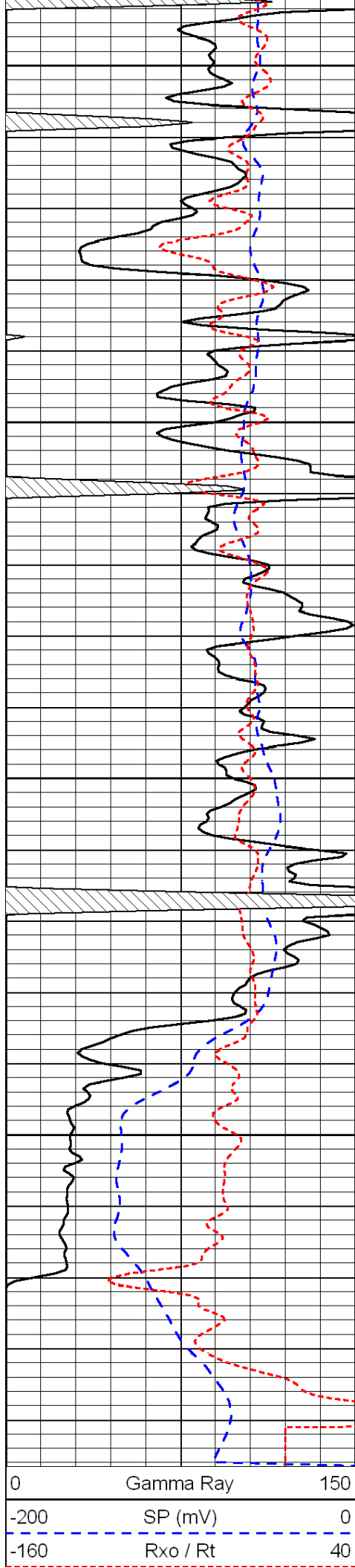


-33

-34

-34

-34

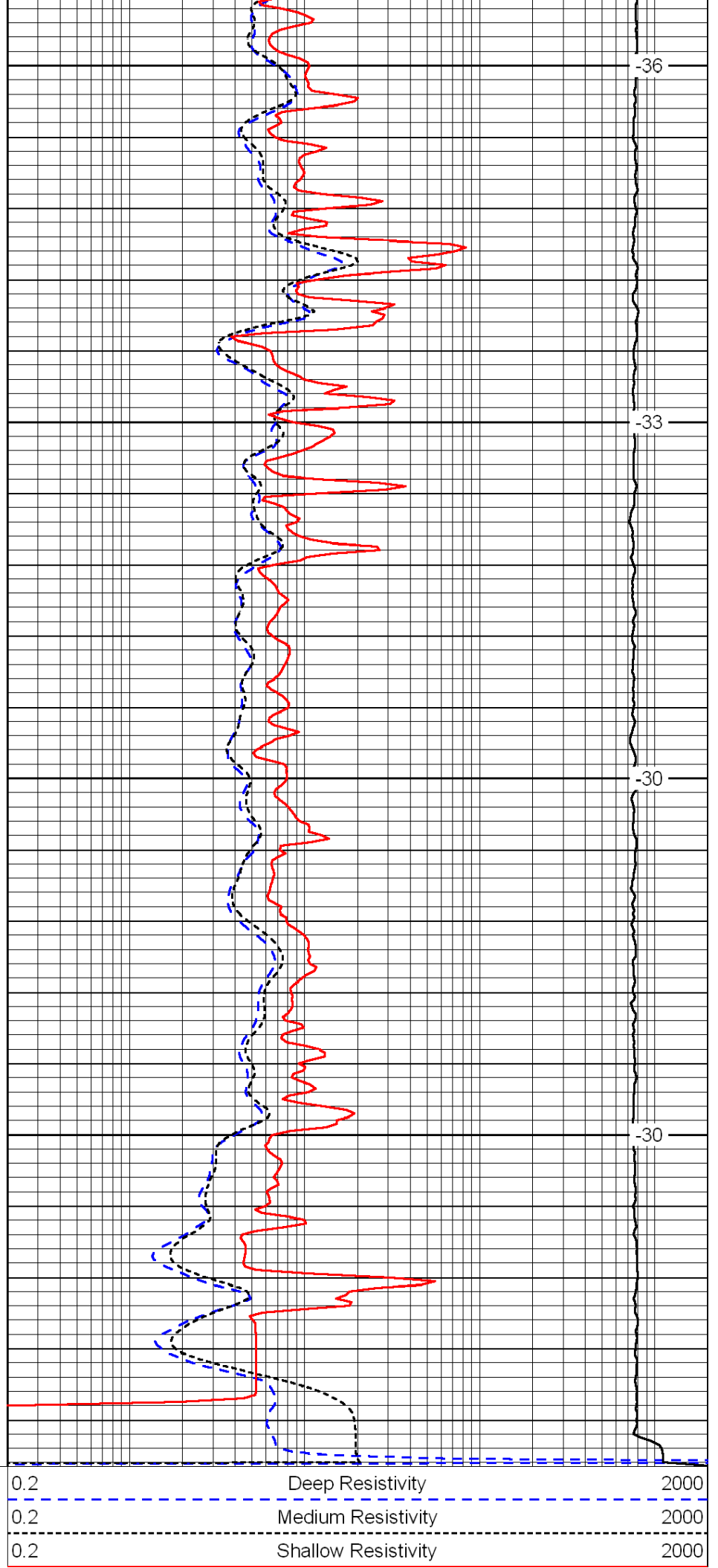


2550

2600

2650

2700



-36

-33

-30

-30

	15000	Line Tension	0
			LSPD