

LOG-TECH



Dual Induction Log

DIGITAL LOG (785) 625-3858

API No.

15-015-23,915-00-00

Company Range Oil Company, Inc.

Well Dow No. 1

Field Mellor East

County Butler State Kansas

Location 330' FSL & 1,750' FEL

Sec: 7 Twp: 24S Rge: 4E

Permanent Datum Ground Level Elevation 1324
Log Measured From Kelly Bushing 10 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Other Services

CNL/CDL

Elevation

K.B. 1334

D.F. 1324

G.L. 1324

Date 9/7/2011

Run Number One

Depth Driller 2538

Depth Logger 2538

Bottom Logged Interval 2537

Top Log Interval 00

Casing Driller 8.625 @ 226

Casing Logger 221

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 5600

Density / Viscosity 9.2 51

pH / Fluid Loss 9.0 16.2

Source of Sample Flowline

Rm @ Meas. Temp .52 @ 76

Rmf @ Meas. Temp .42 @ 76

Rmc @ Meas. Temp .76 @ 76

Source of Rmf / Rmc Charts

Rm @ BHT .42 @ 101

Operating Rig Time 2 1/2 Hours

Max Rec. Temp. F 101

Equipment Number 10

Location Hays

Recorded By J. Long

Witnessed By Roger Martin

<<< 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

Potwin, 1 East to River Valley Road, 2 1/2 North to 100 Road, 1 1/4 West, North Into

Database File: range_dow_1hd.db
Dataset Pathname: dil/rangstck
Presentation Format: dil2in
Dataset Creation: Wed Sep 07 18:32:50 2011
Charted by: Depth in Feet scaled 1:600

0	Gamma Ray	150
-200	SP	0

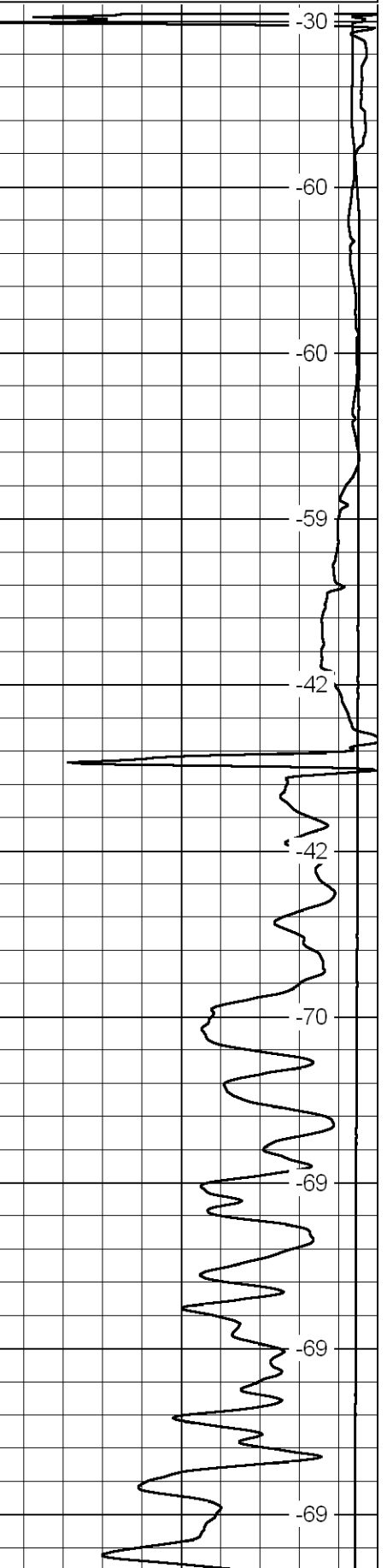
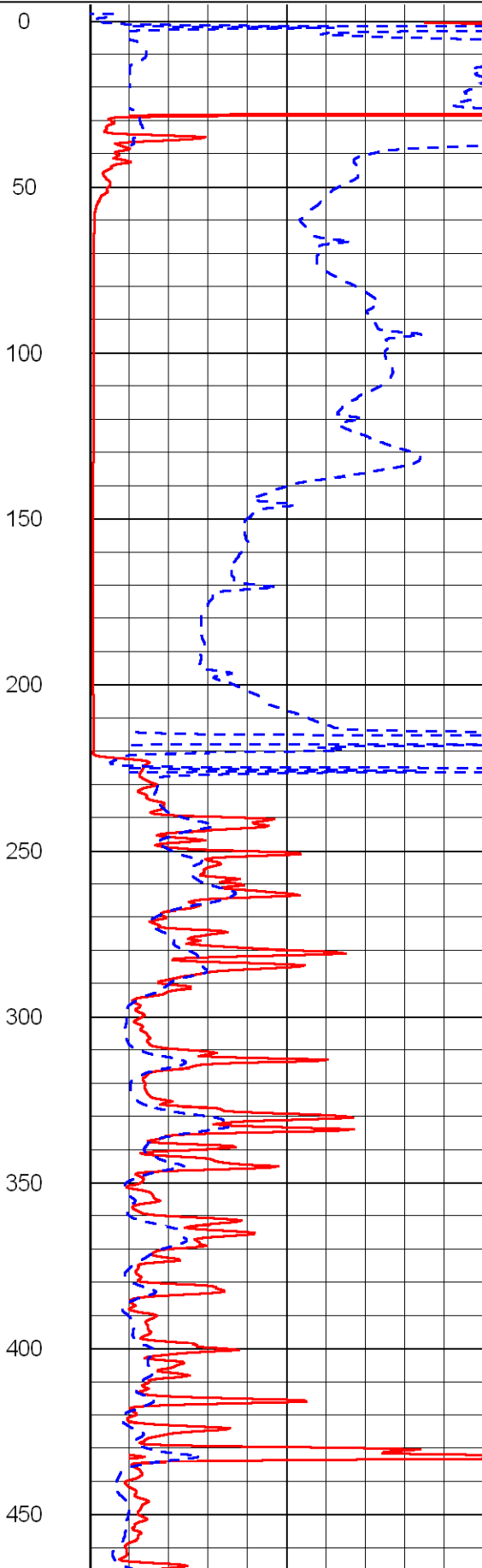
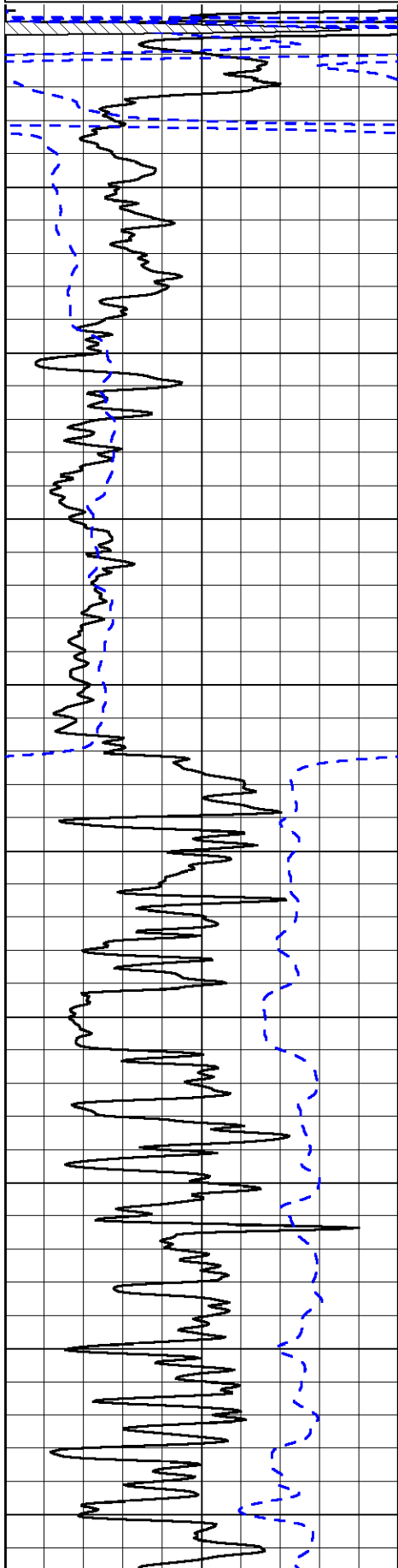
0	Shallow Resistivity	50
0	Deep Resistivity	50

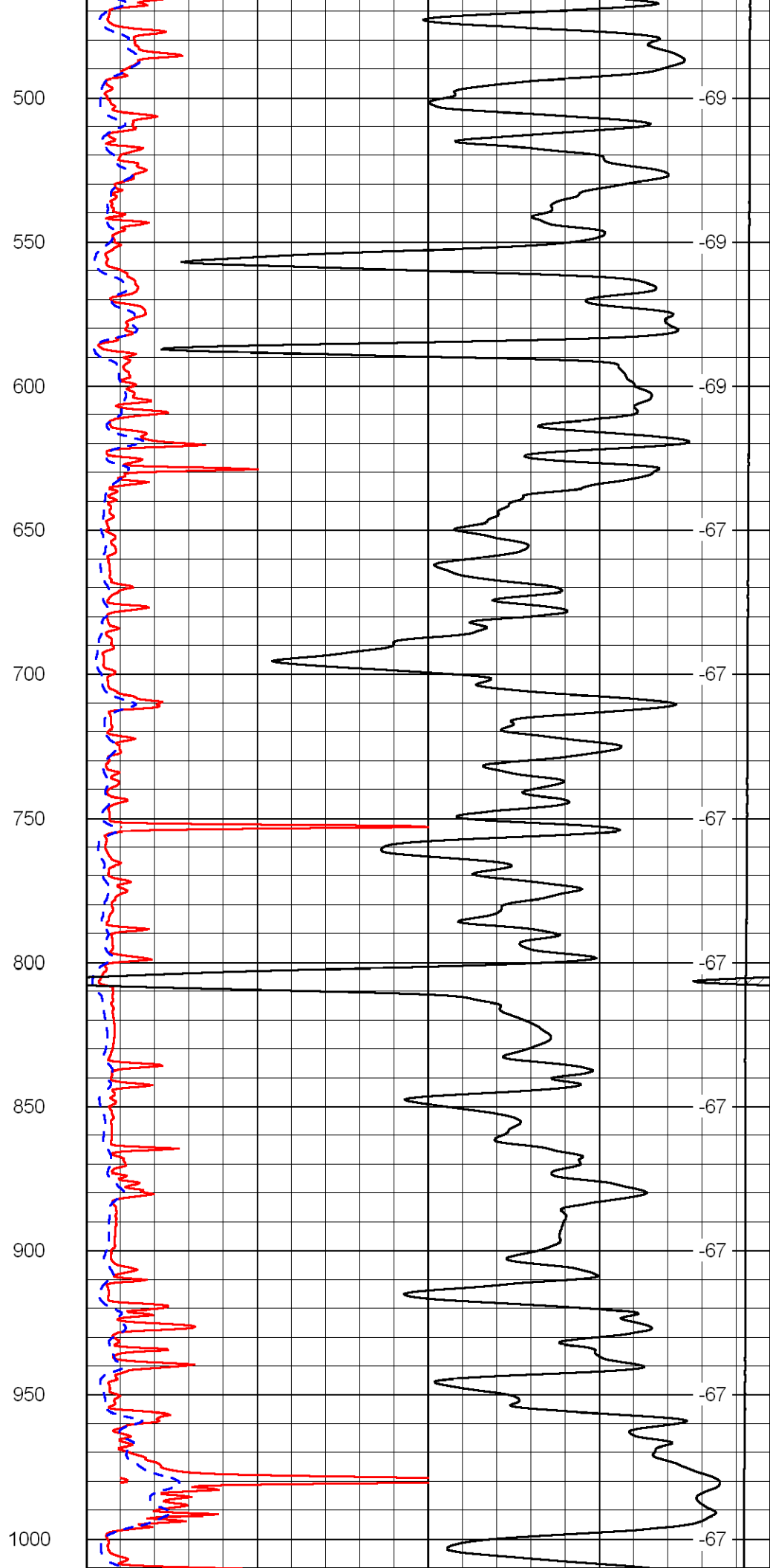
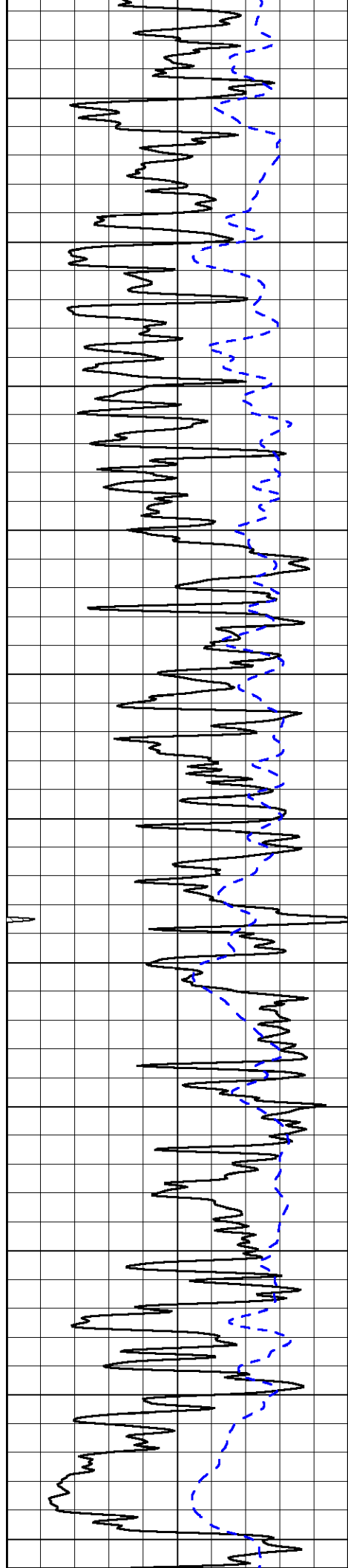
LSPD

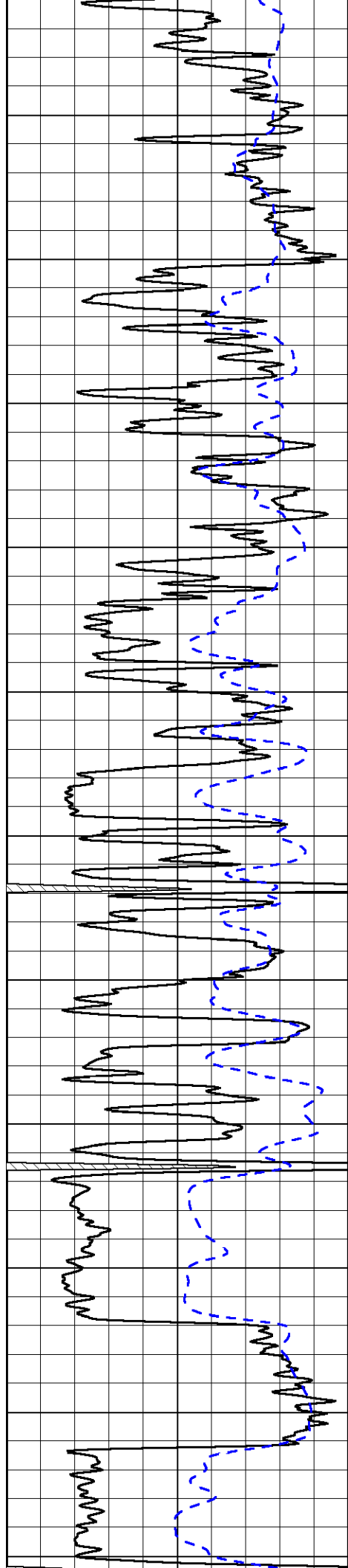
1000	Conductivity	0
------	--------------	---

15000	Line Tension	0
-------	--------------	---

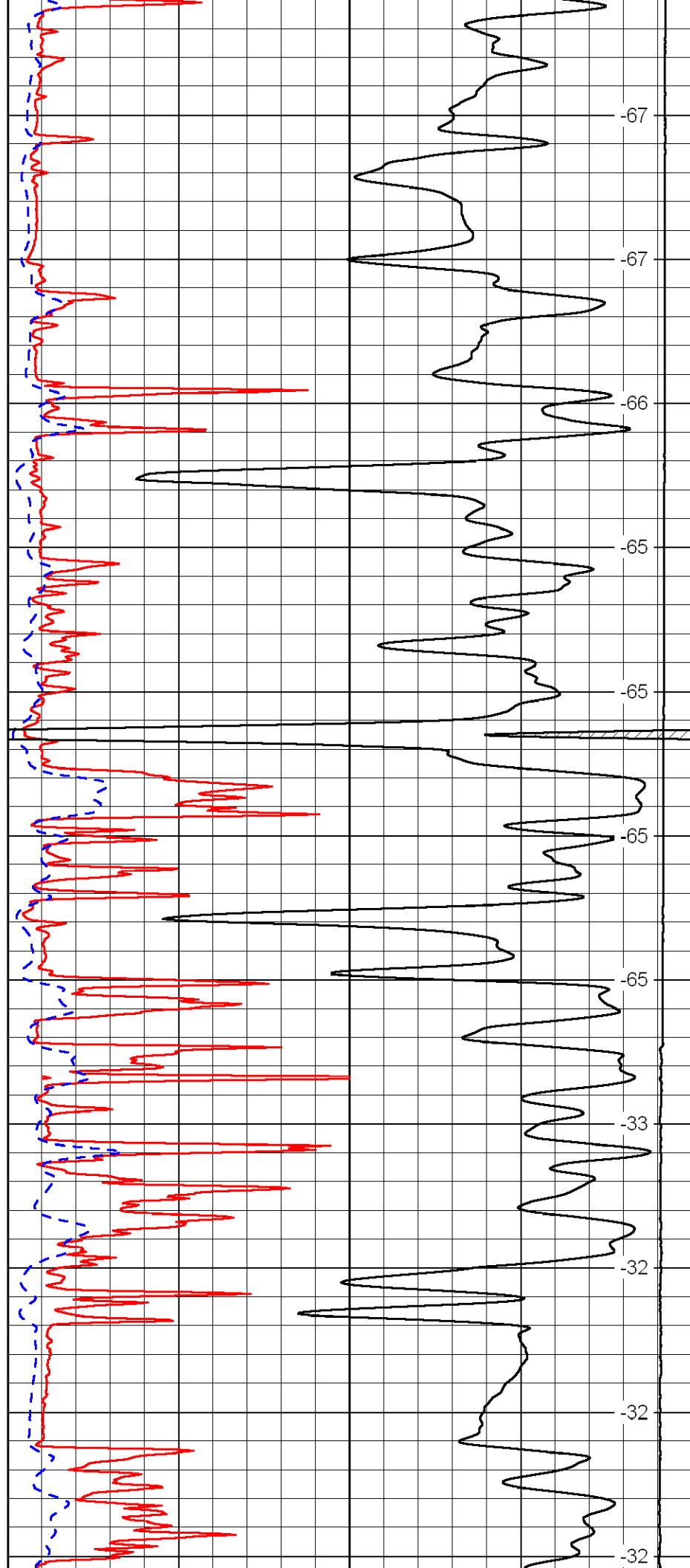
50	Shallow Resistivity	500
50	Deep Resistivity	500



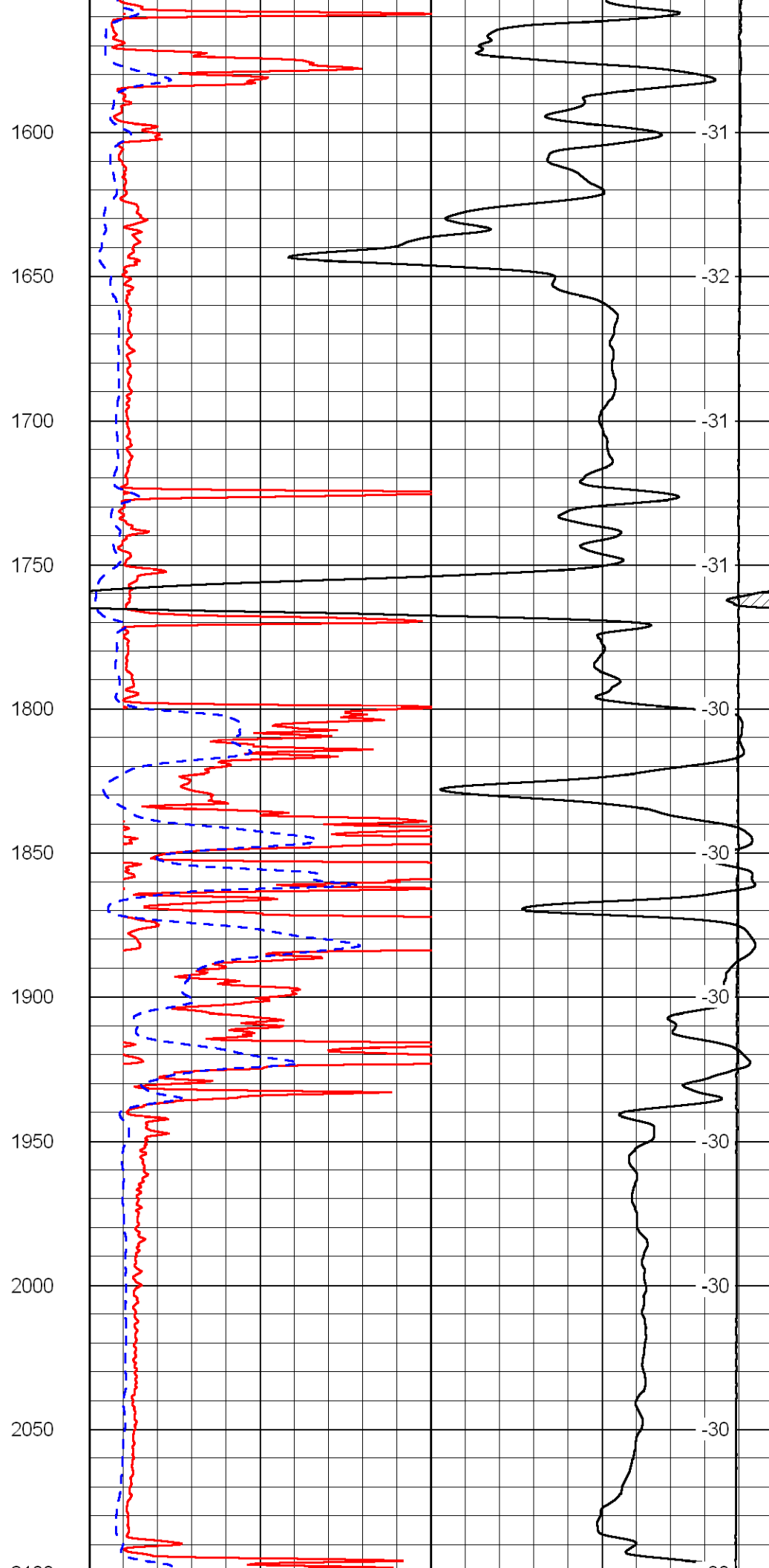
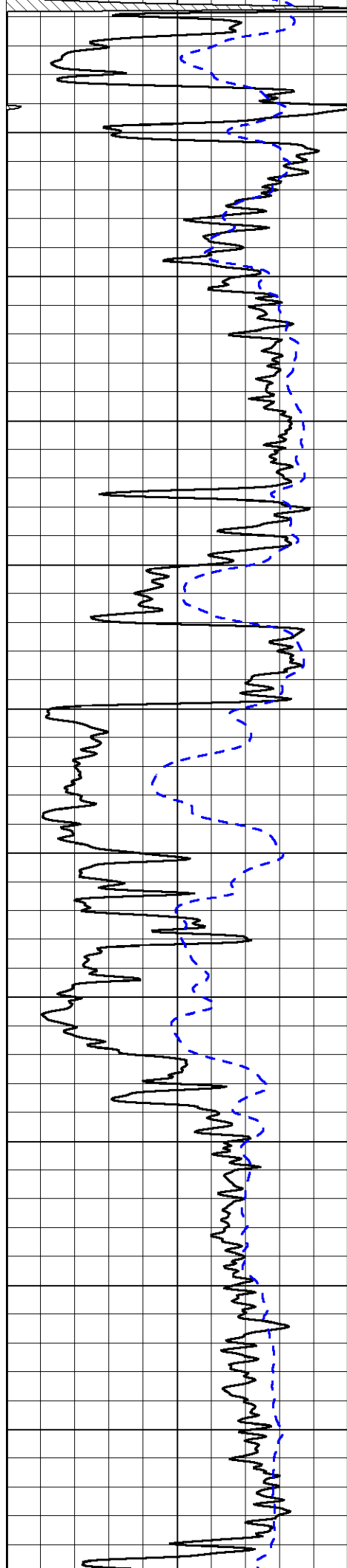


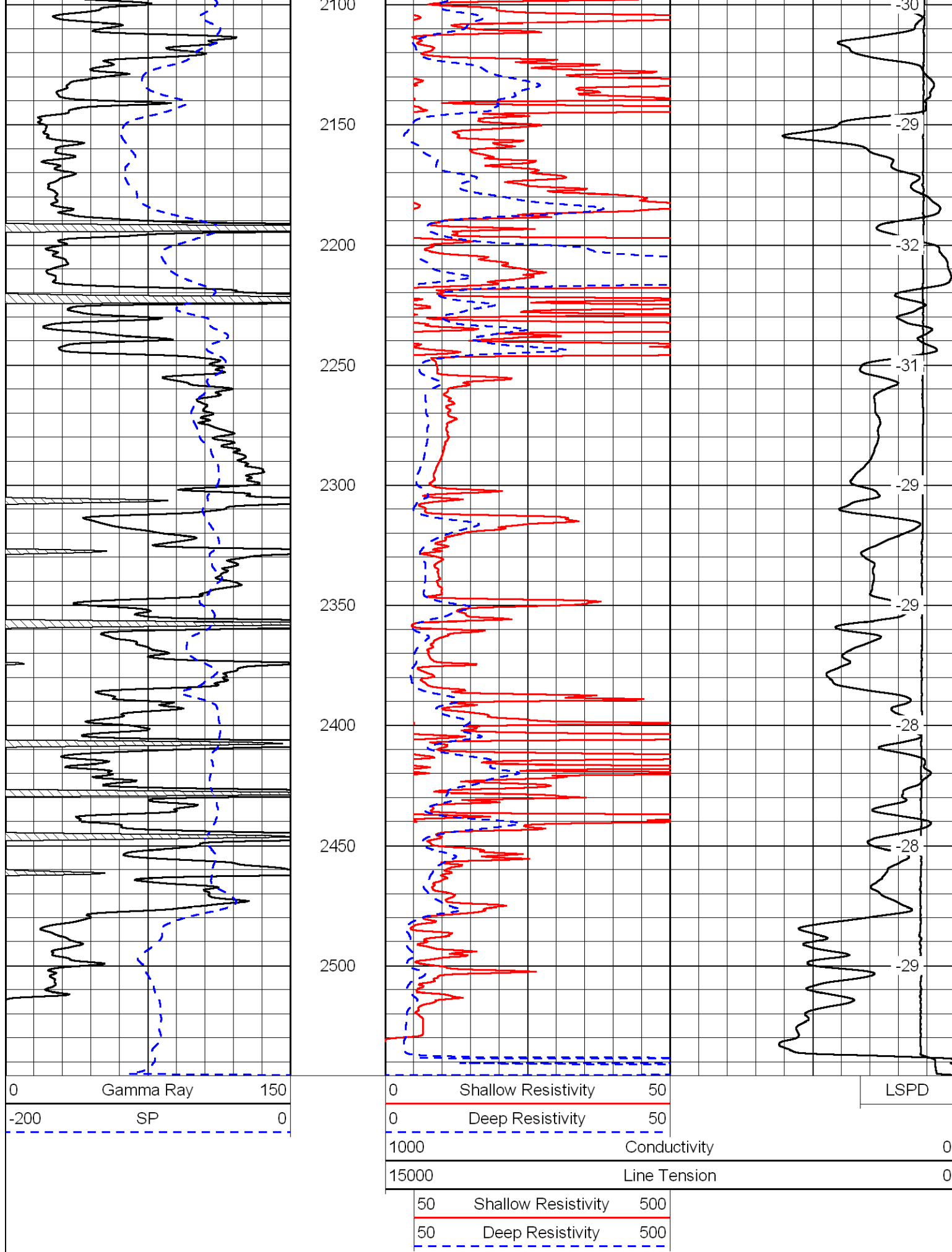


1050
1100
1150
1200
1250
1300
1350
1400
1450
1500
1550



-67
-67
-66
-65
-65
-65
-65
-33
-32
-32
-32



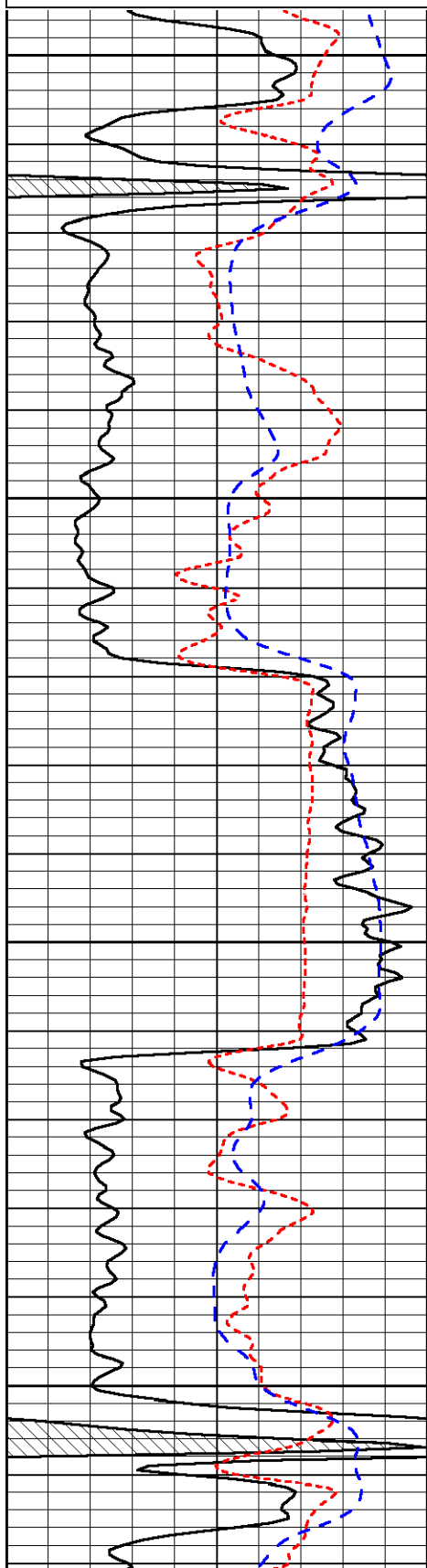


Database File: range_dow_mid.db
Dataset Pathname: dil/rangstck
Presentation Format: dil
Dataset Creation: Wed Sep 07 18:32:50 2011
Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150
-160	RXO/RT	40
-200	SP	0

0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
10000	Line Tension	0

LSPD

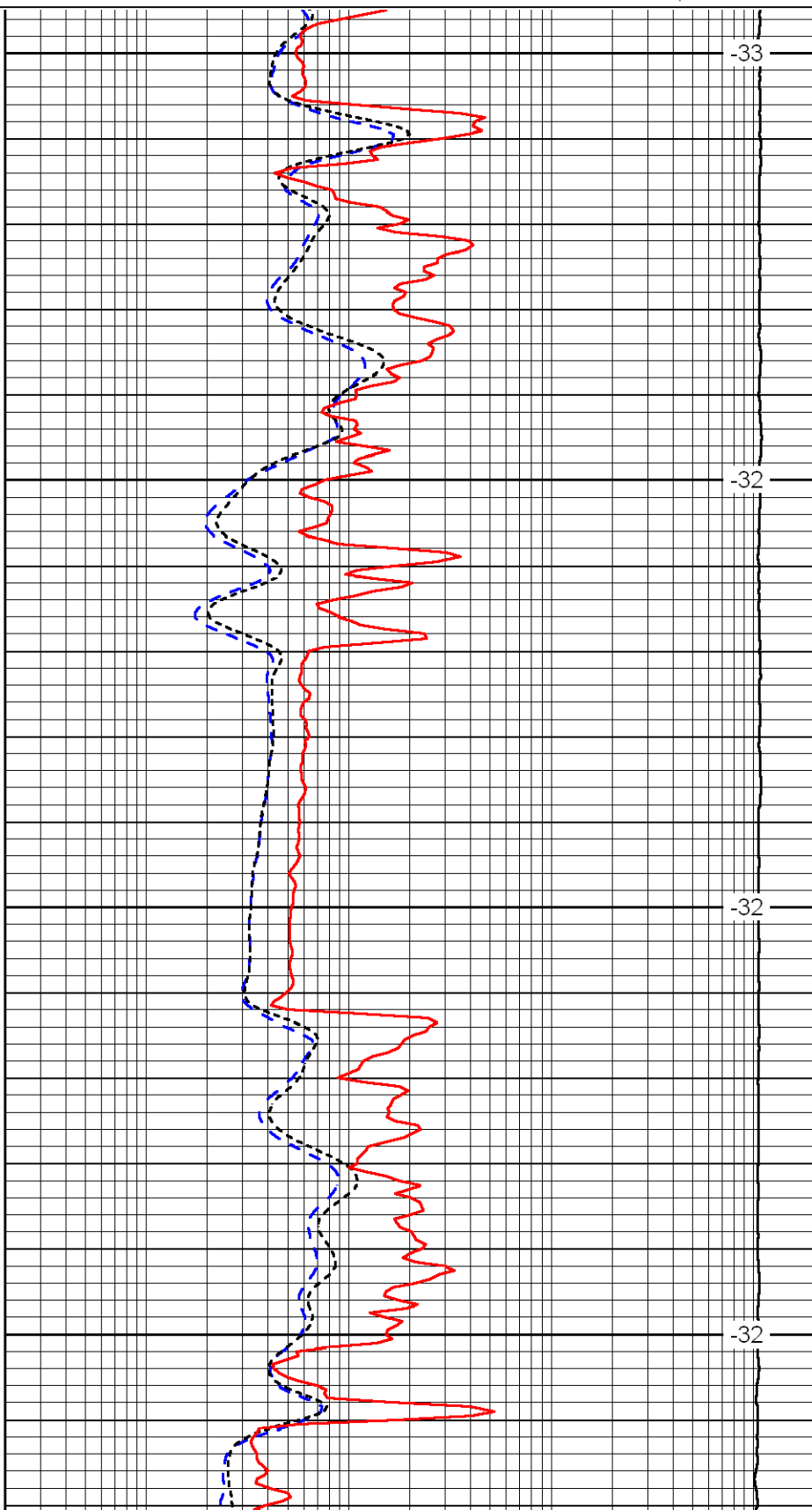


1400

1450

1500

1550

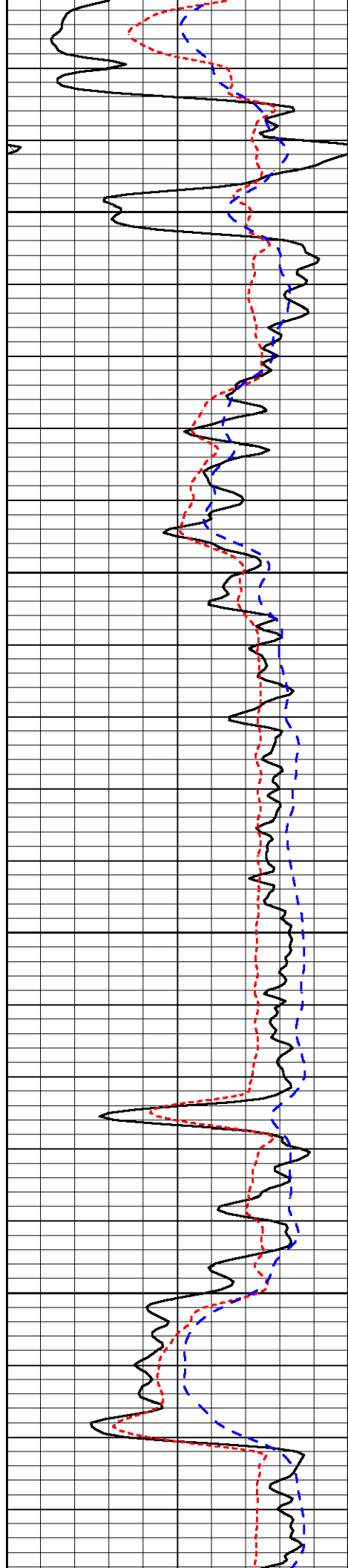


-33

-32

-32

-32

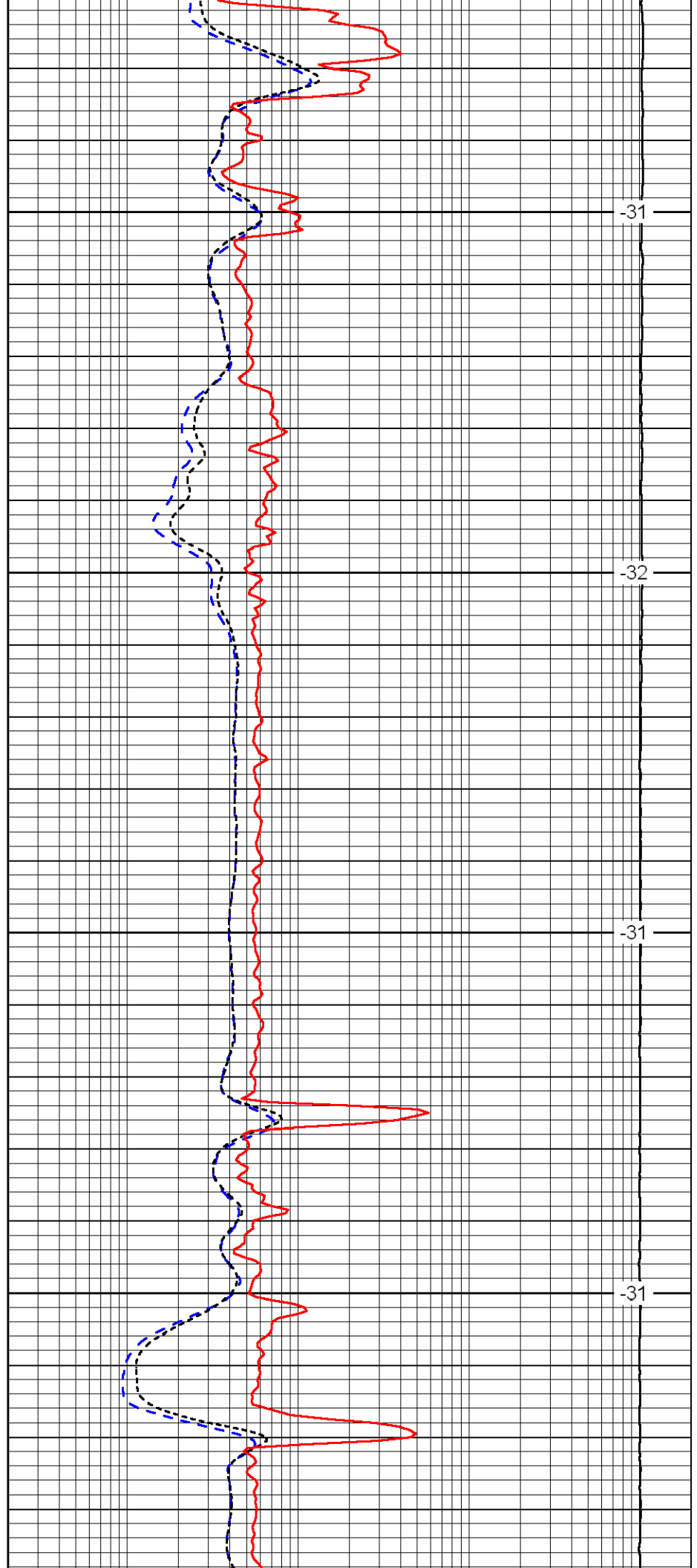


1600

1650

1700

1750

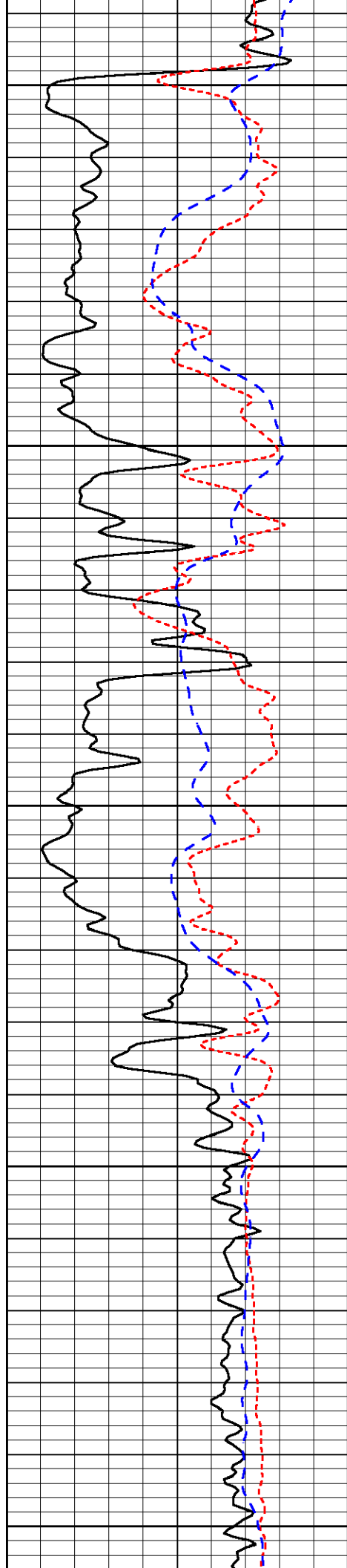


-31

-32

-31

-31



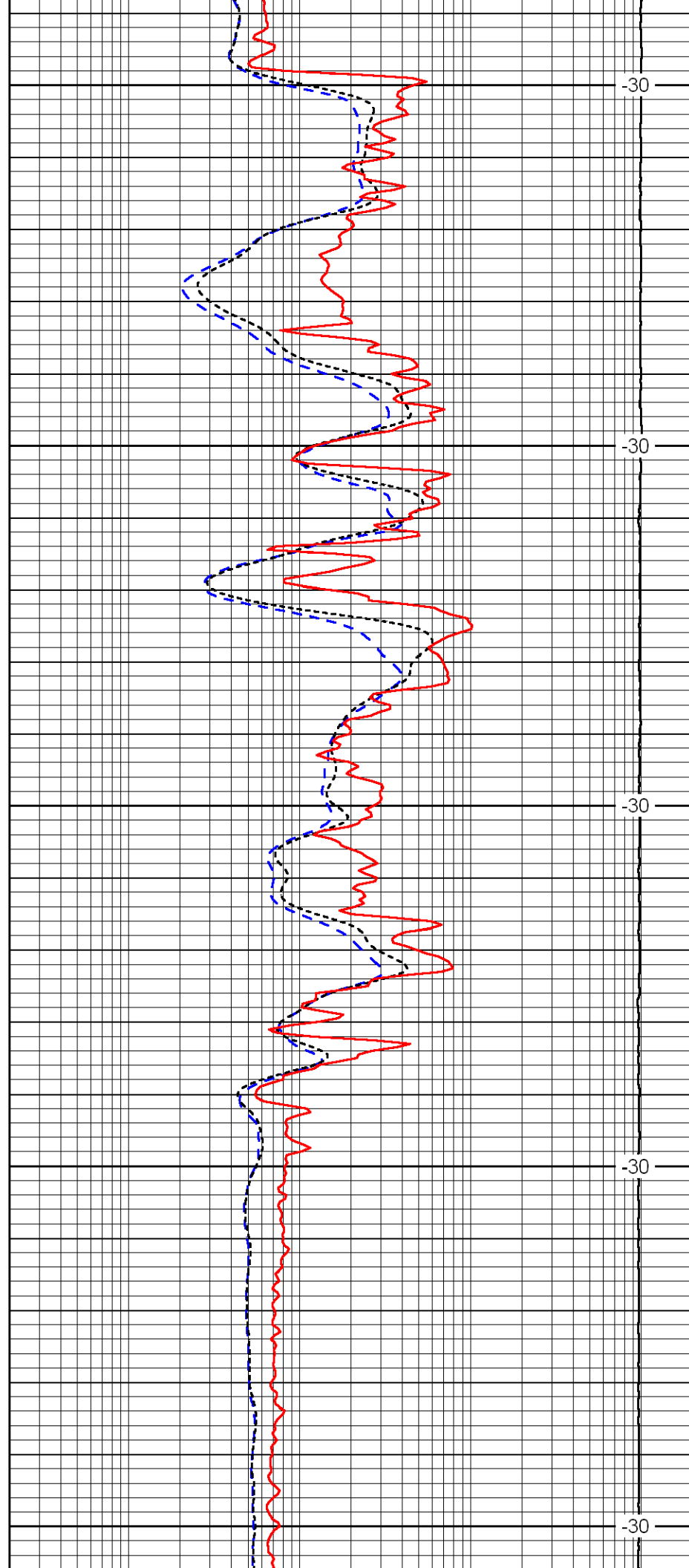
1800

1850

1900

1950

2000



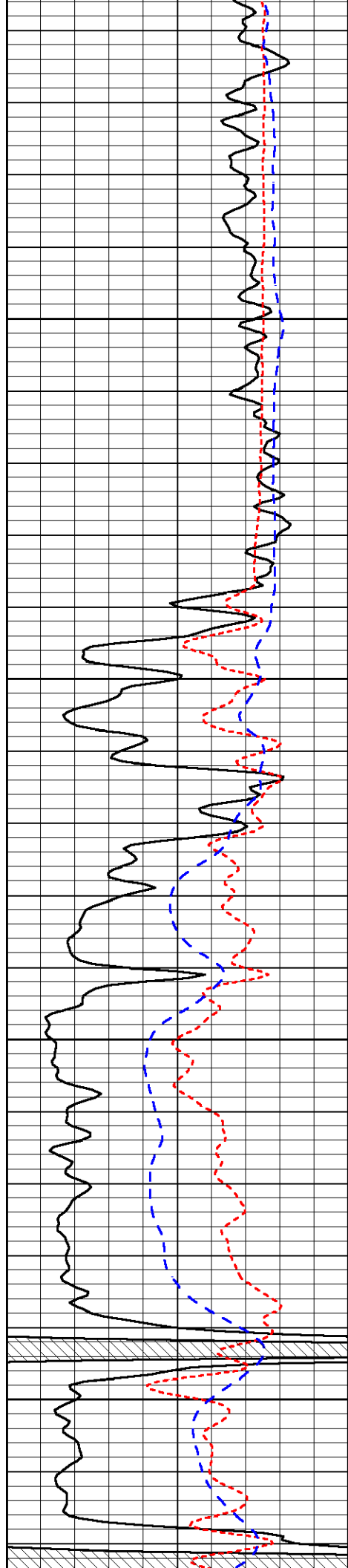
-30

-30

-30

-30

-30

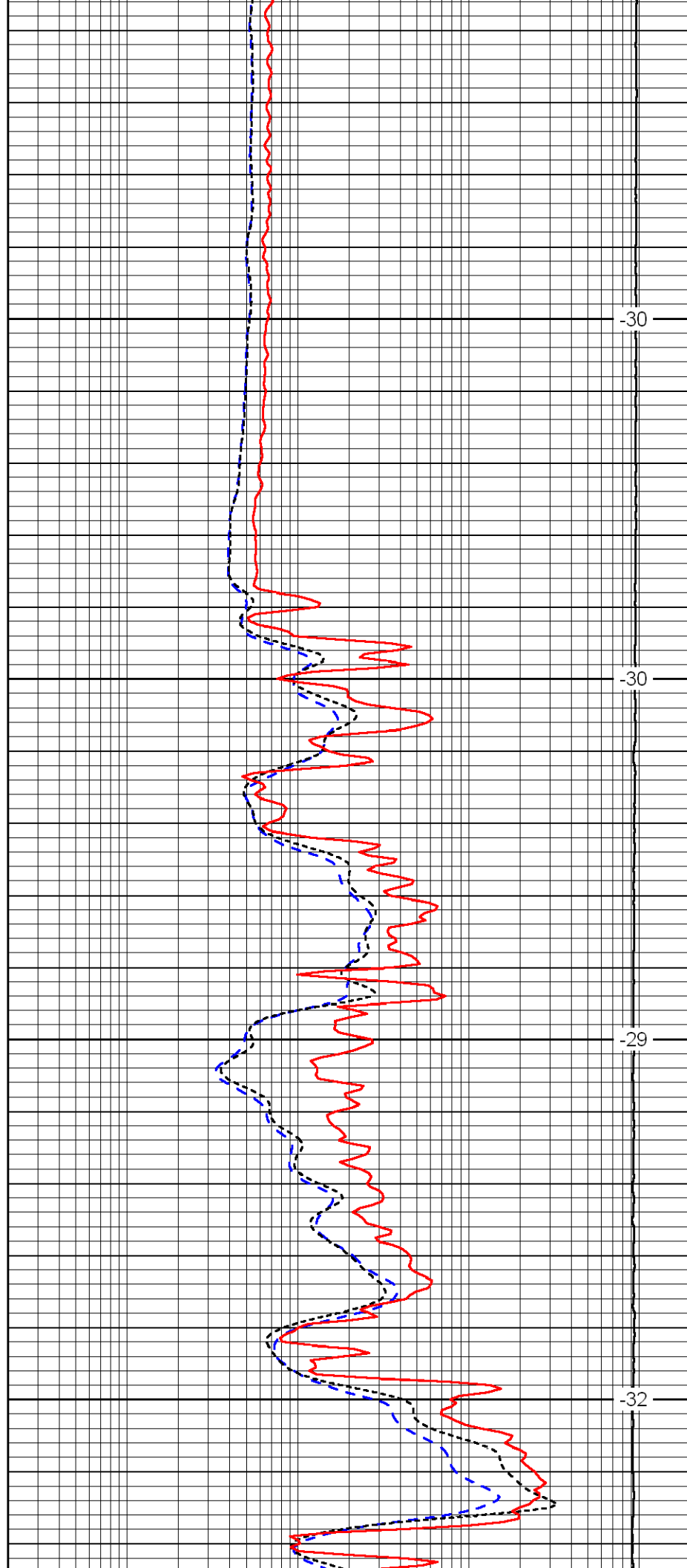


2050

2100

2150

2200

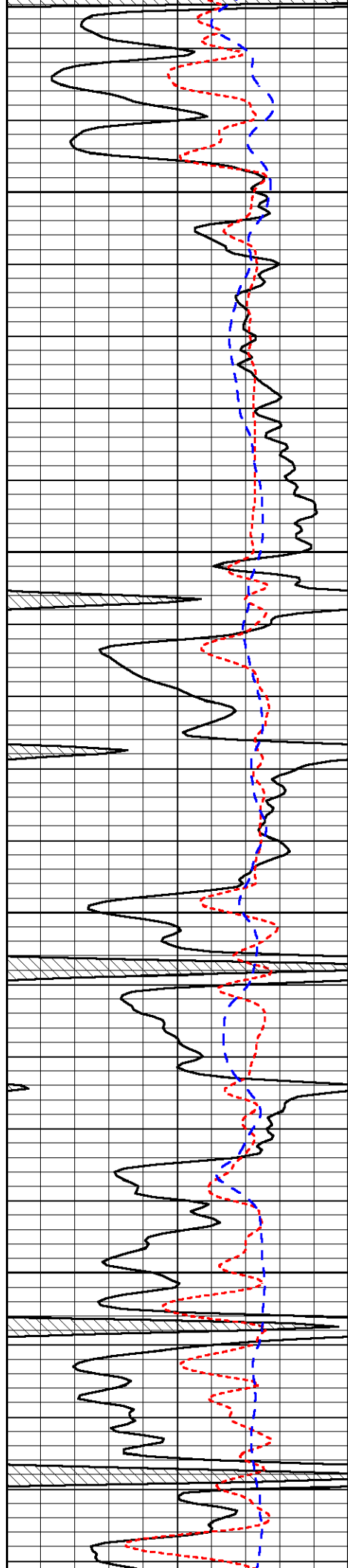


-30

-30

-29

-32

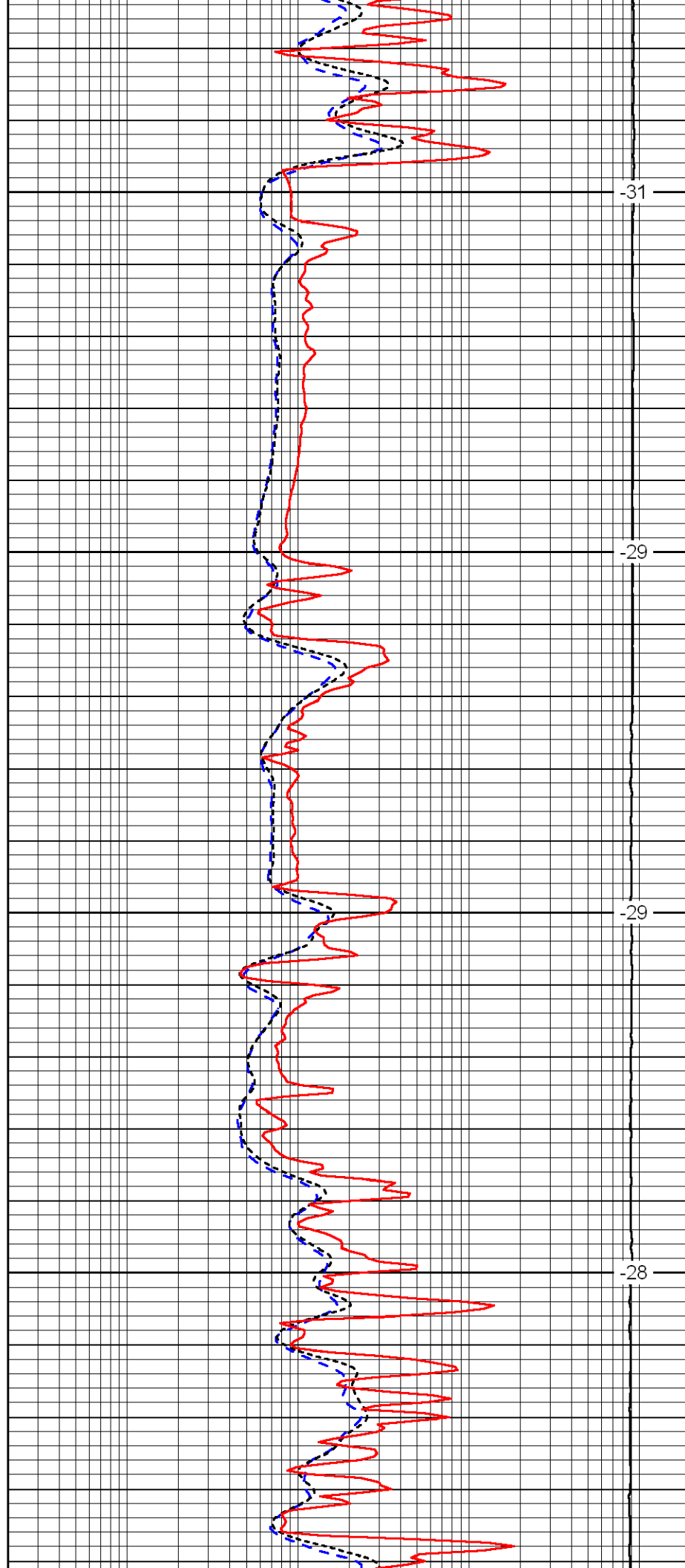


2250

2300

2350

2400

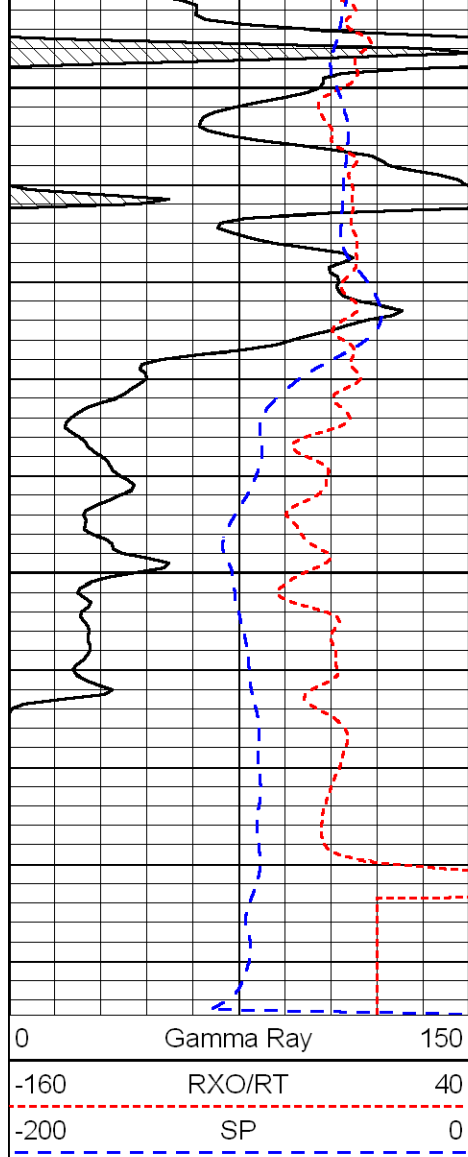


-31

-29

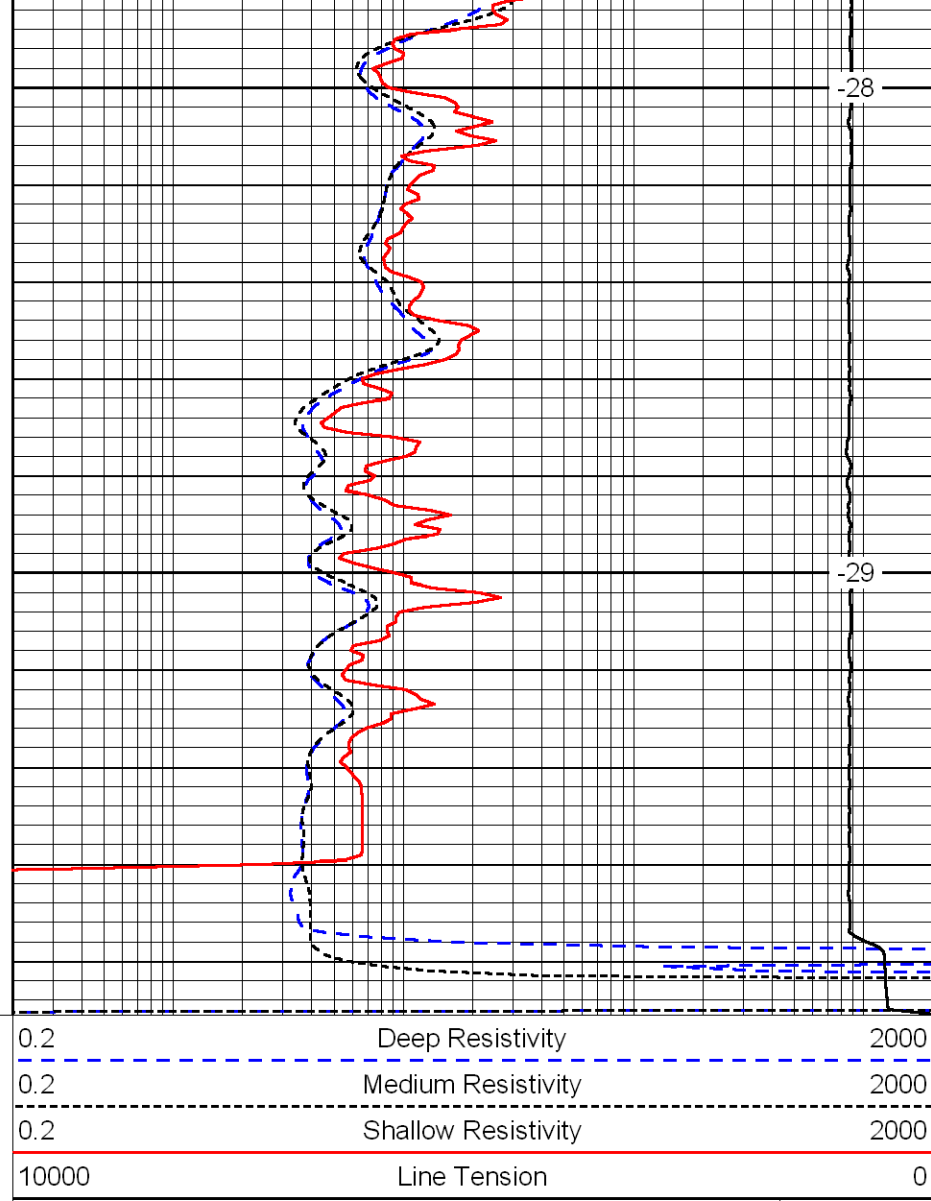
-29

-28



2450

2500



-28

-29

LSPD