



Pioneer Energy Services

Dual Induction Log

API No.

15-051-26,752-00-00

Company TDI

Well Munjor East No. 1

Field Unnamed

County Ellis State

Kansas

Location

2310' FNL & 2300' FWL

Sec: 30

Twp: 14s

Rge: 17w

Elevation

Permanent Datum Ground Level Elevation 1937
Log Measured From Kelly Bushing 10 Ft. Above Perm. Datum
Drilling Measured From Kelly BushingK.B. 1947
D.F. 1937
G.L. 1937

Date

11/7/2014

Run Number

One

Depth Driller

3625

Depth Logger

3625

Bottom Logged Interval

3624

Top Log Interval

1100

Casing Driller

8.625 @ 1130

Casing Logger

1123

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

2500

Density / Viscosity

9.1 45

pH / Fluid Loss

10.5 8.0

Source of Sample

Flowline

Rm @ Meas. Temp

.37 @ 72

Rmf @ Meas. Temp

.28 @ 72

Rmc @ Meas. Temp

.50 @ 72

Source of Rmf / Rmc

Charts

Rm @ BHT

.24 @ 112

Operating Rig Time

3 Hours

Max Rec. Temp. F

112

Equipment Number

108

Location

Hays

Recorded By

D. Fischer

Witnessed By

Tom Denning

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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

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(785) 625-3858

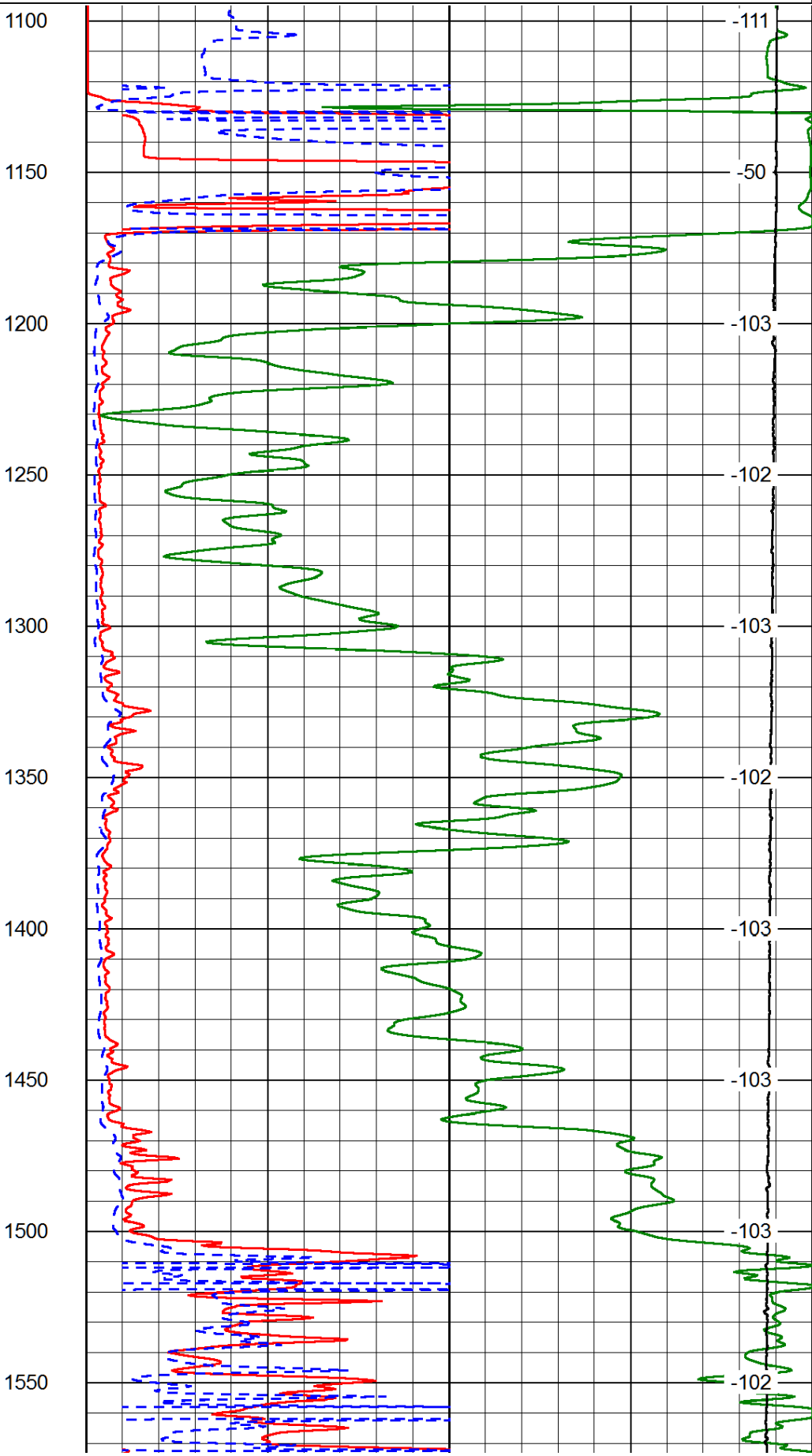
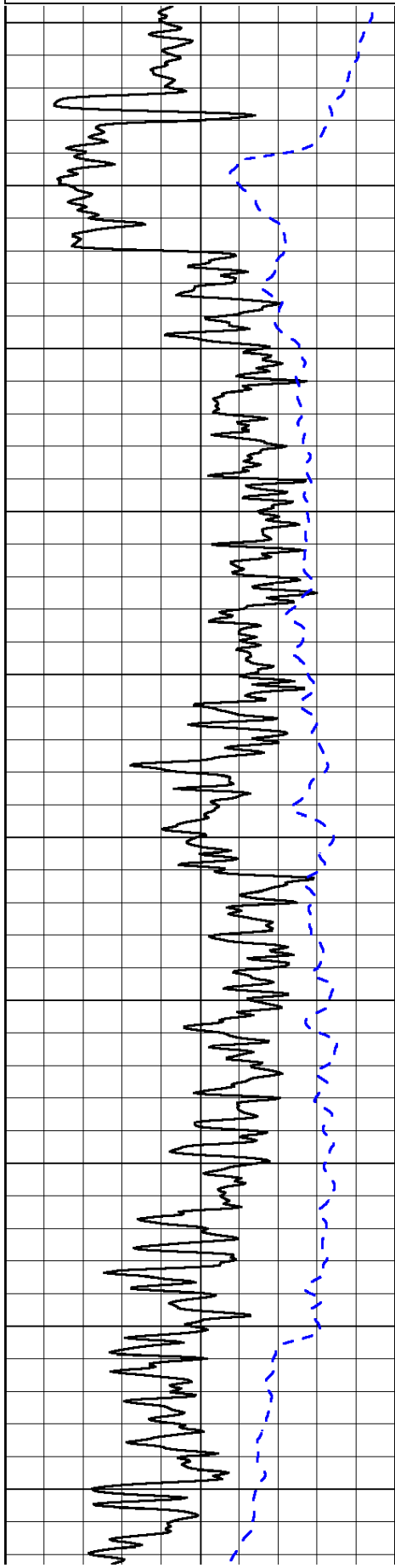
Munjor Ks., 1/2 East, South Into.

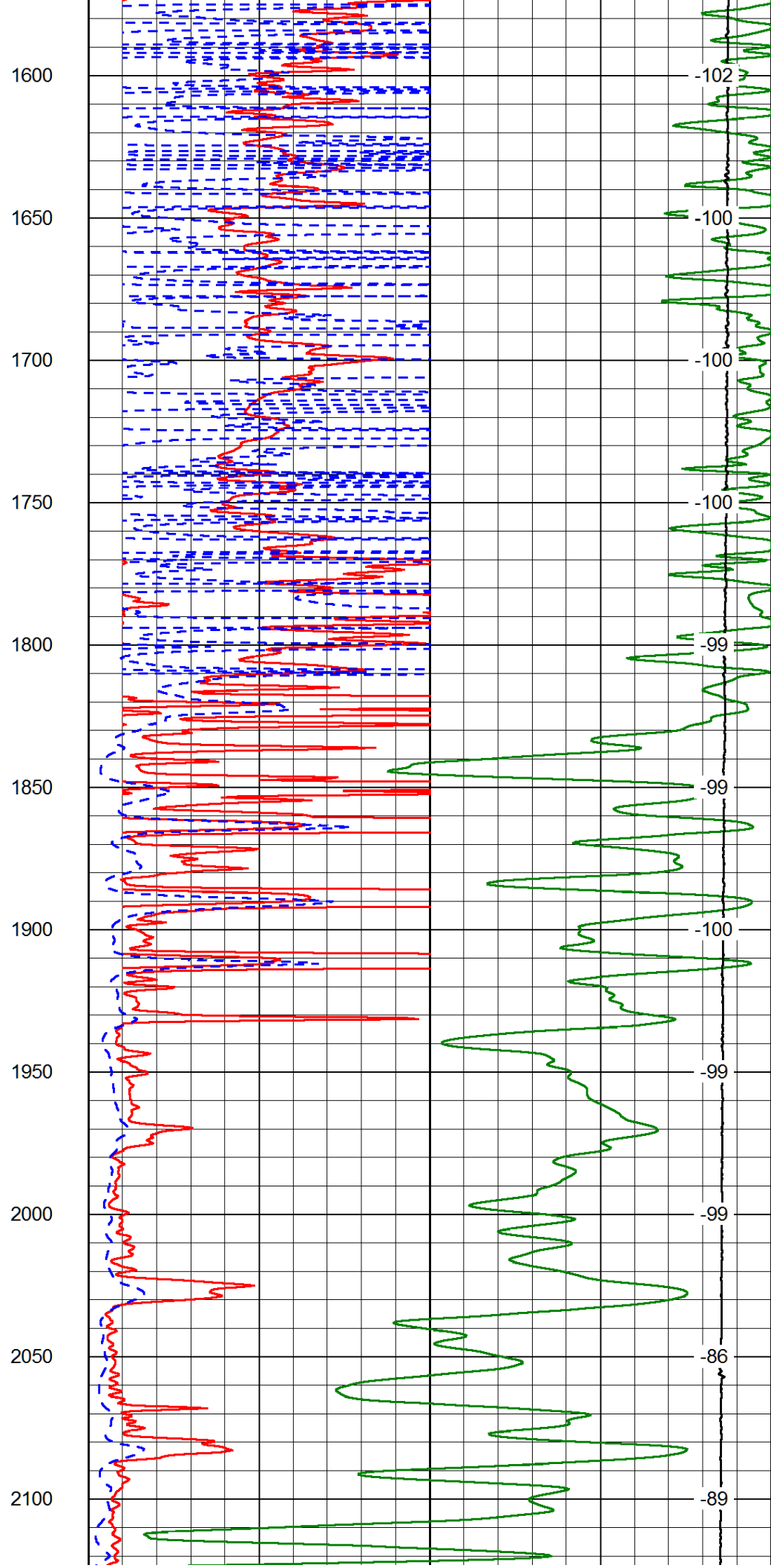
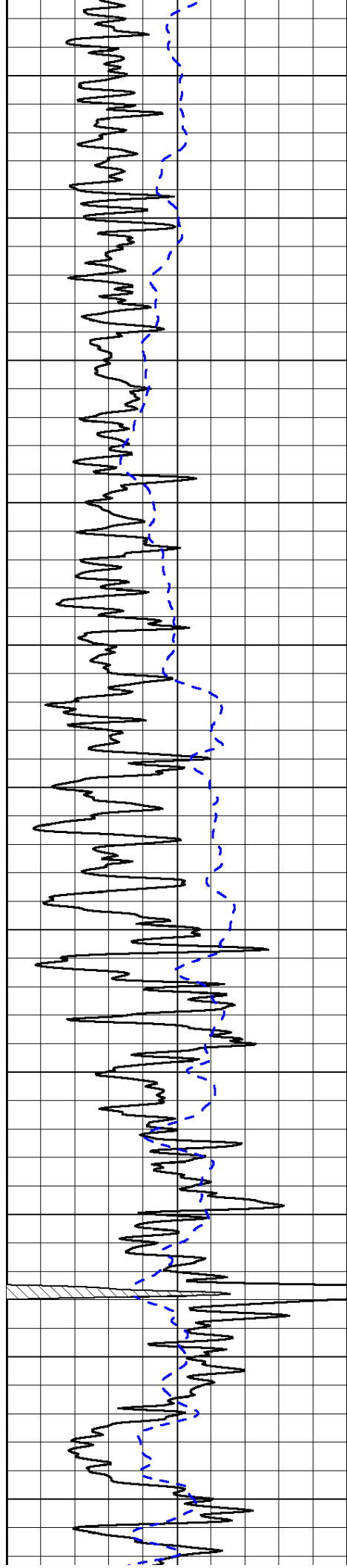
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Dataset Pathname: DIL/tdistck
Presentation Format: dil2in
Dataset Creation: Fri Nov 07 04:02:31 2014
Charted by: Depth in Feet scaled 1:600

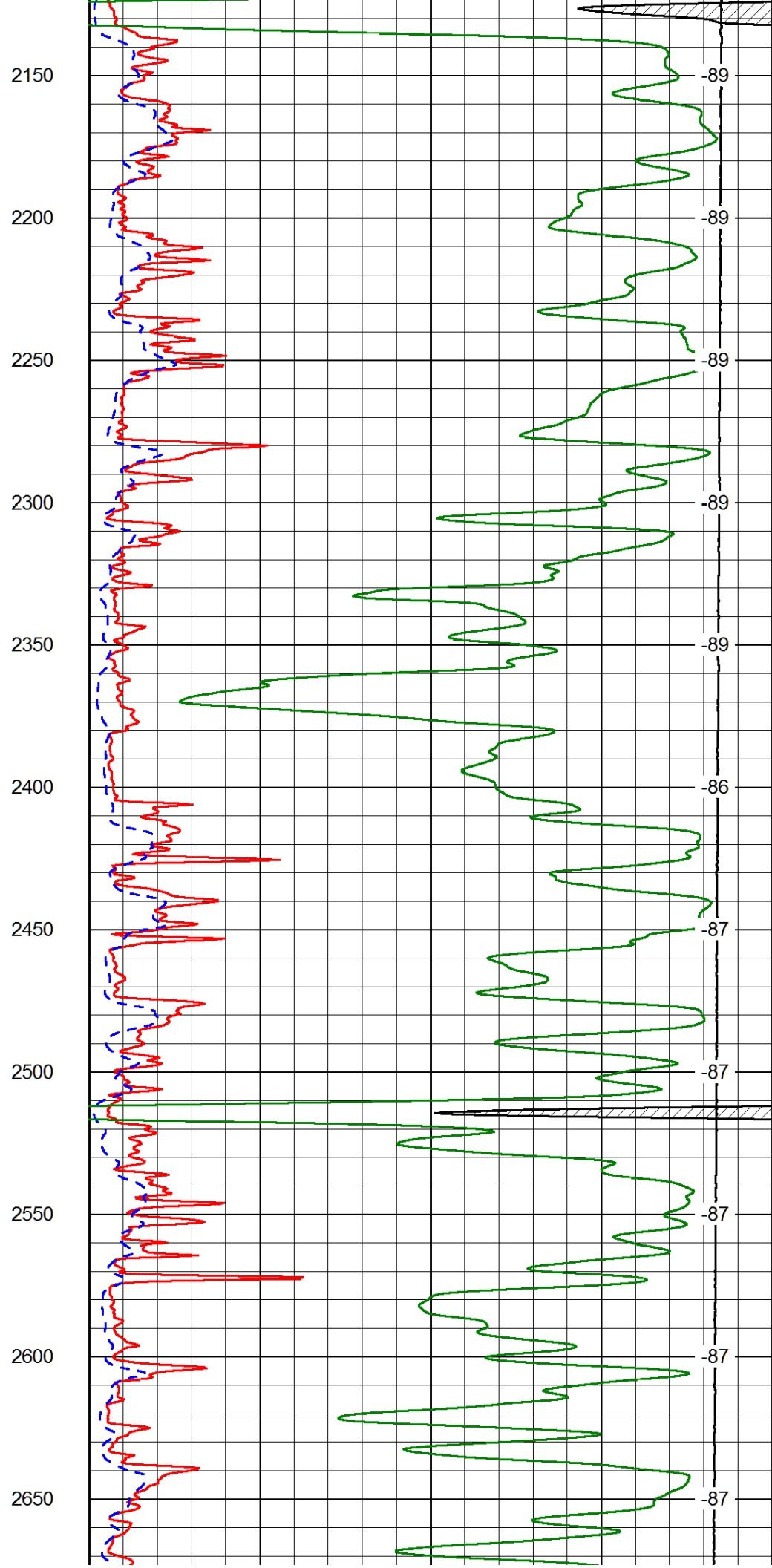
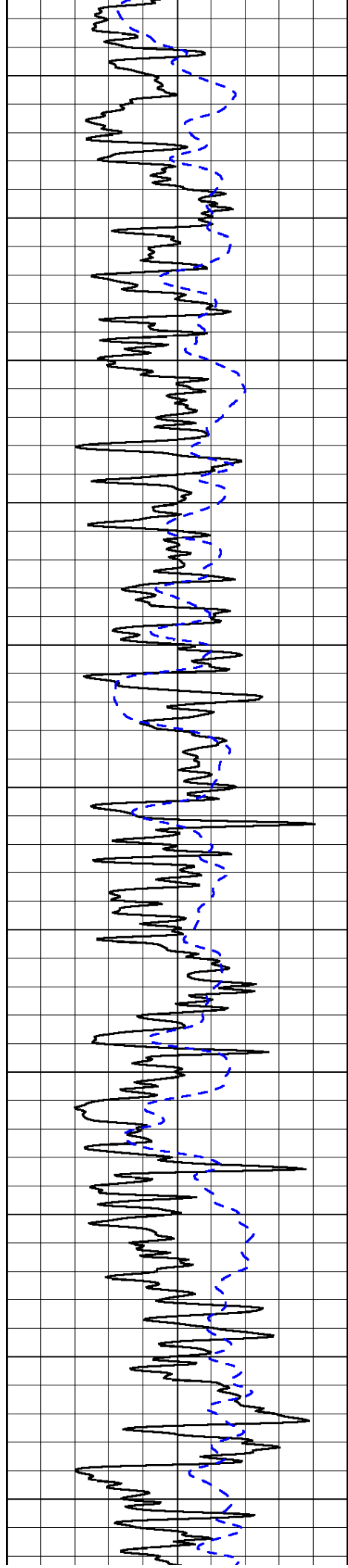
0	Gamma Ray	150
-200	SP (mV)	0

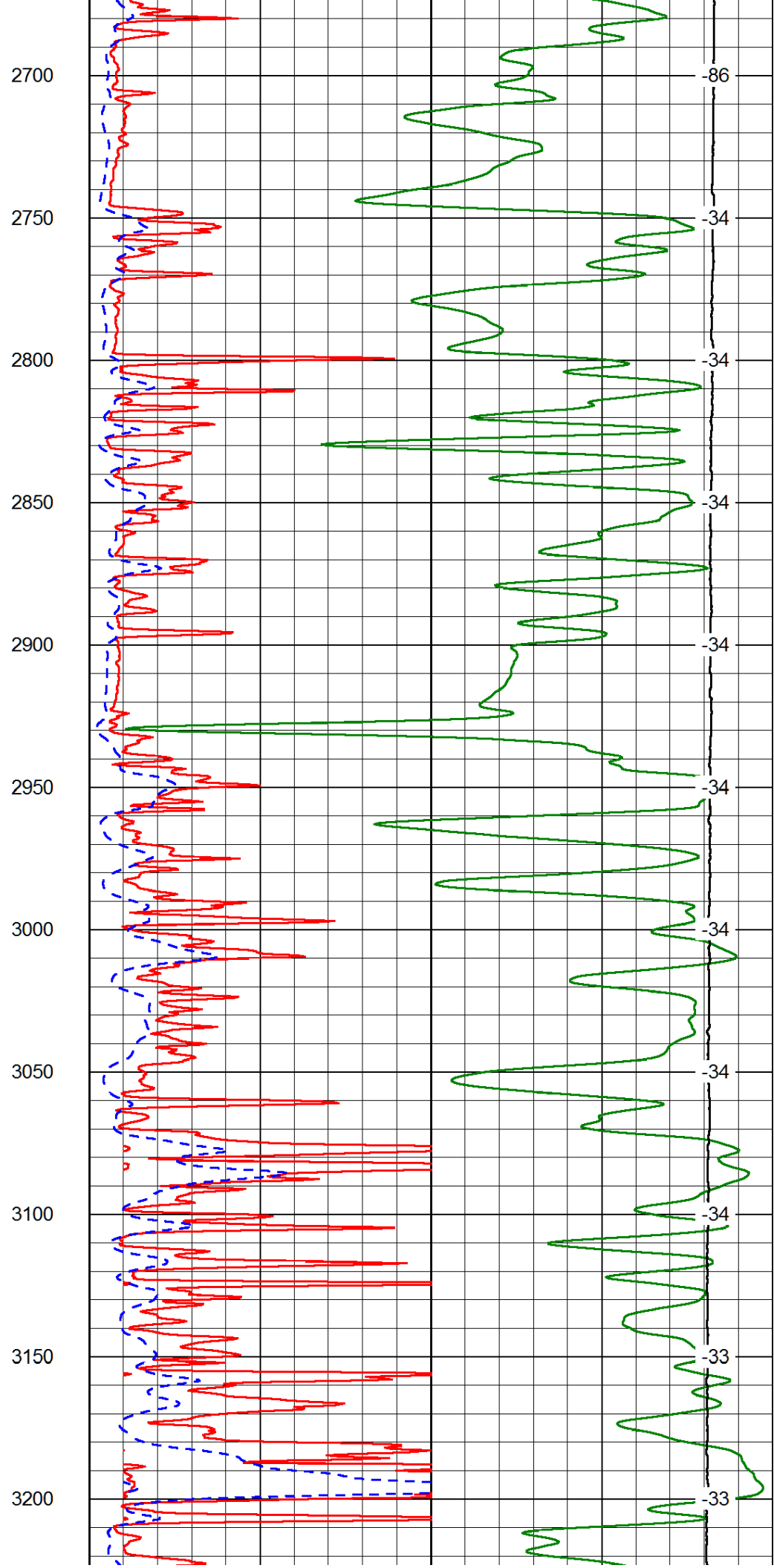
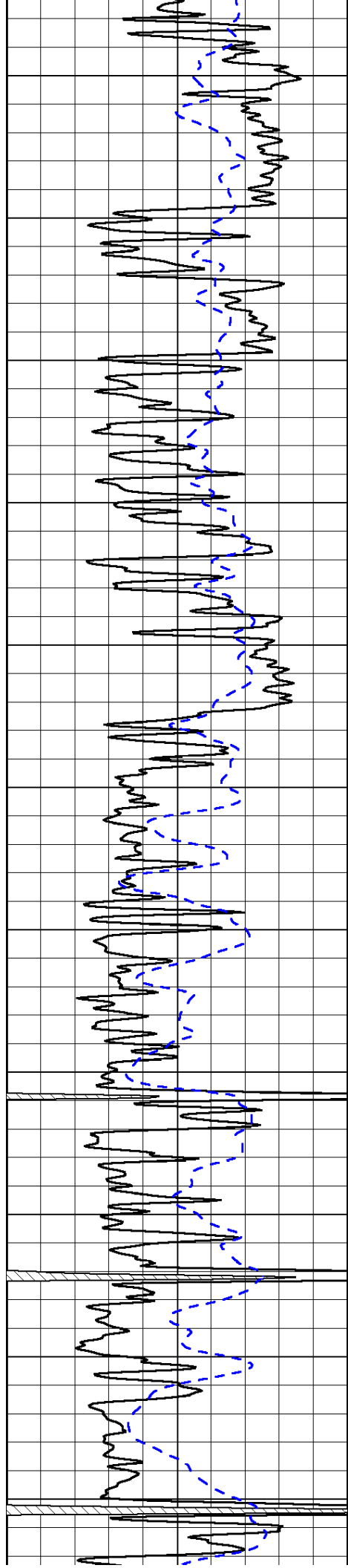
0	Shallow Resistivity	50
0	Deep Resistivity	50
1000	Conductivity	0
15000	Line Tension	0

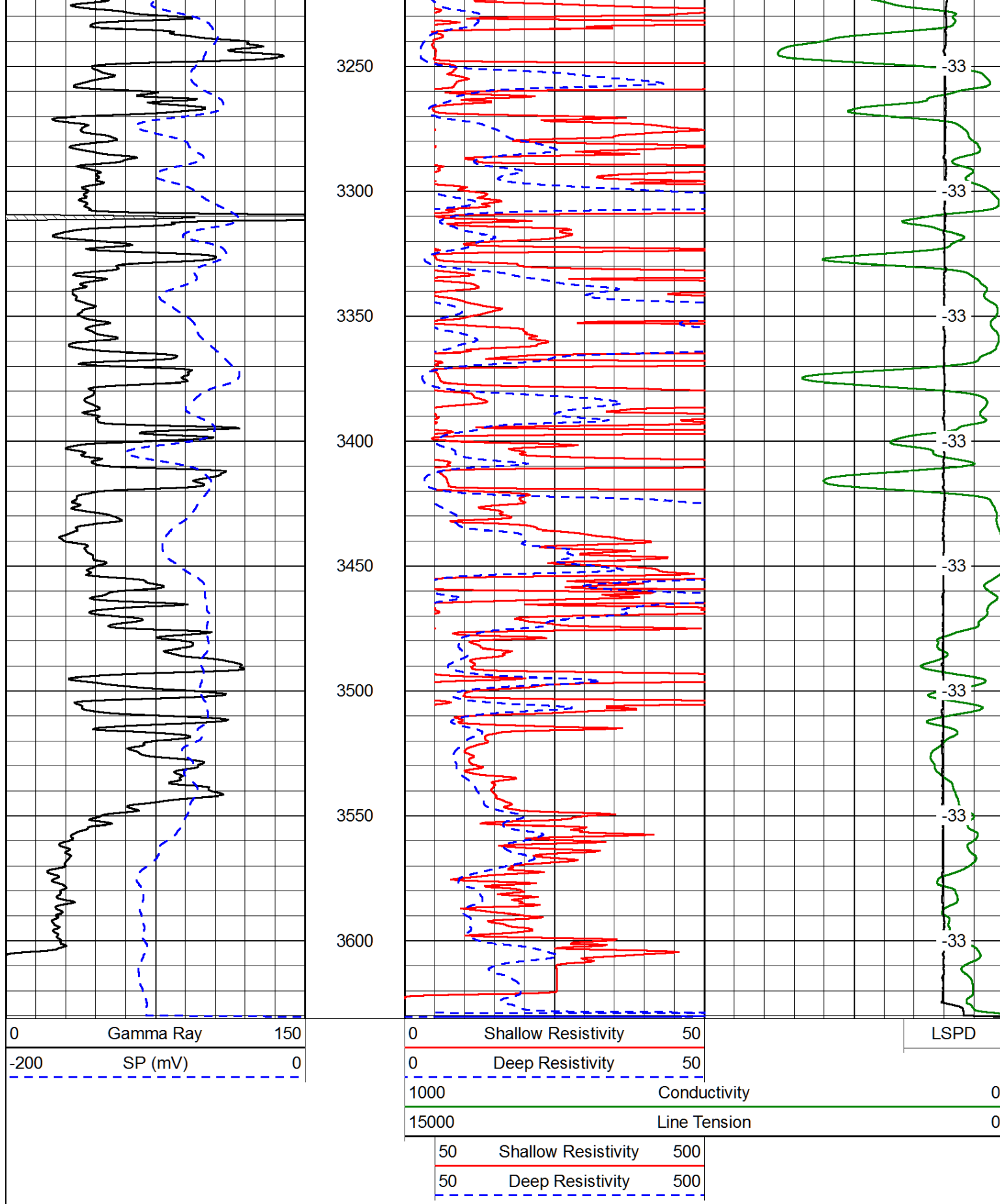
50	Shallow Resistivity	500
50	Deep Resistivity	500









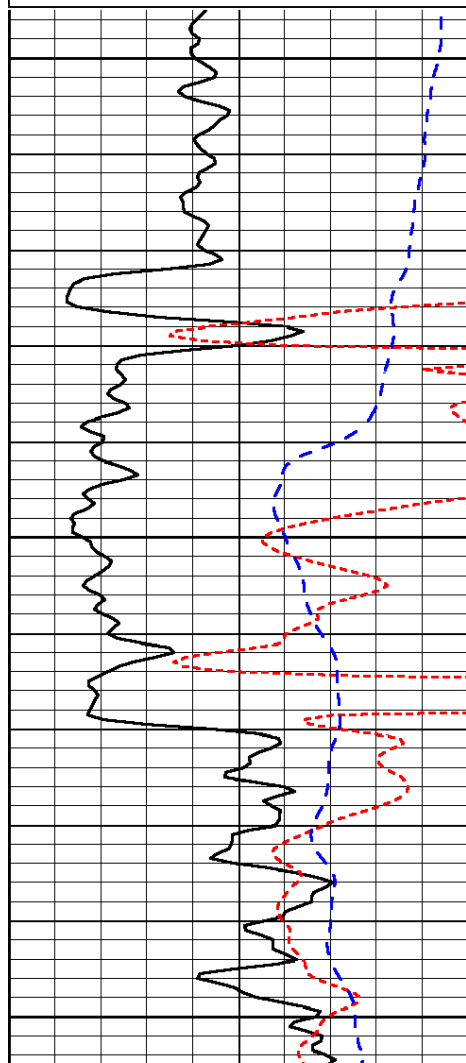


Database File: tdi_munjor_east_1hd.db
Dataset Pathname: DIL/tdistck
Presentation Format: dil
Dataset Creation: Fri Nov 07 04:02:31 2014
Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150
-160	RxoRt	40
-200	SP (mV)	0

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

LSPD

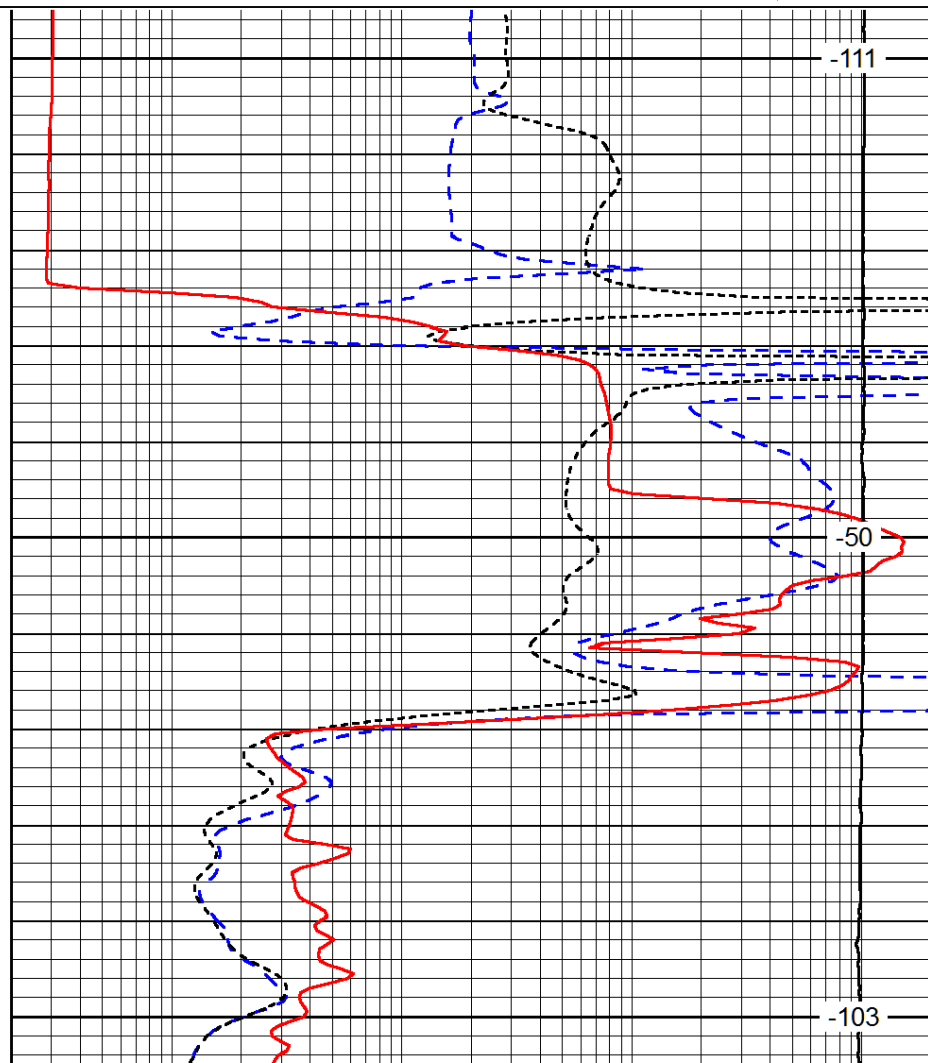


1100

1150

1200

0	Gamma Ray	150
-160	RxoRt	40
-200	SP (mV)	0



-111

-50

-103

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

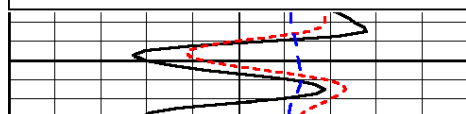
LSPD

Database File: tdi_munjor_east_1hd.db
Dataset Pathname: DIL/tdistck
Presentation Format: dil
Dataset Creation: Fri Nov 07 04:02:31 2014
Charted by: Depth in Feet scaled 1:240

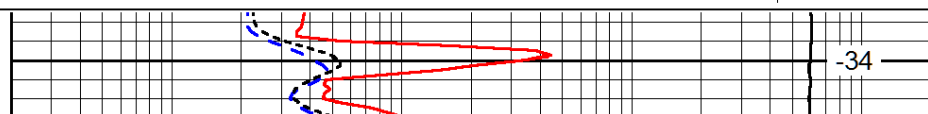
0	Gamma Ray	150
-160	RxoRt	40
-200	SP (mV)	0

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

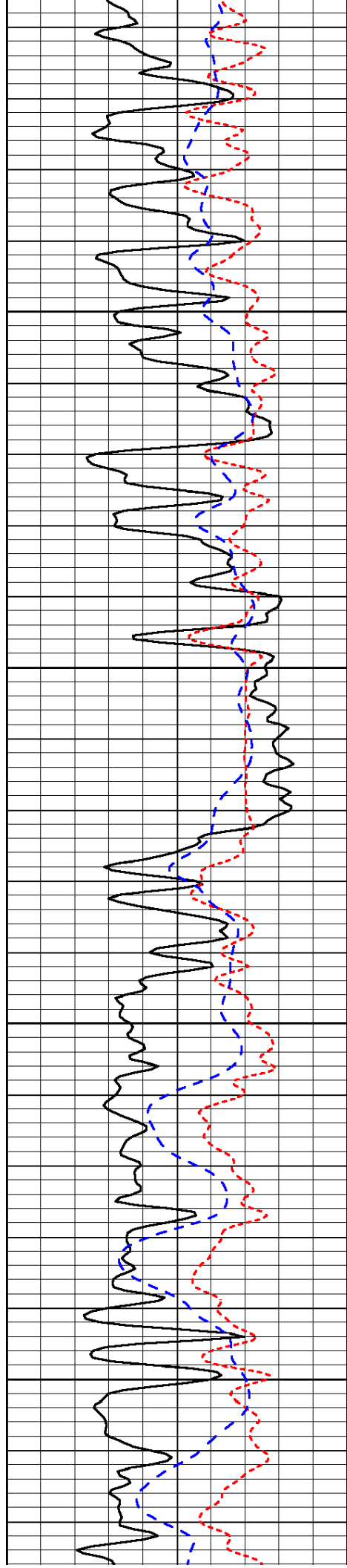
LSPD



2800



-34

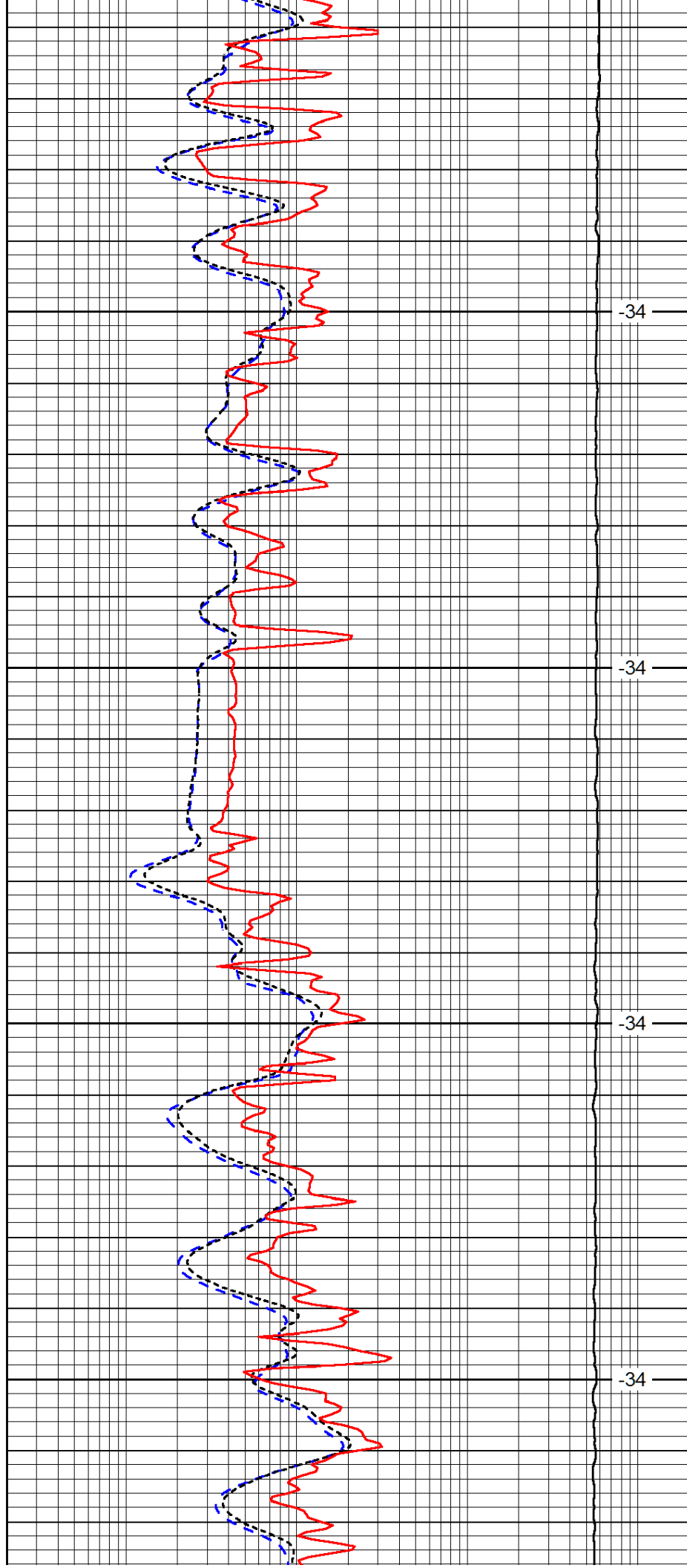


2850

2900

2950

3000

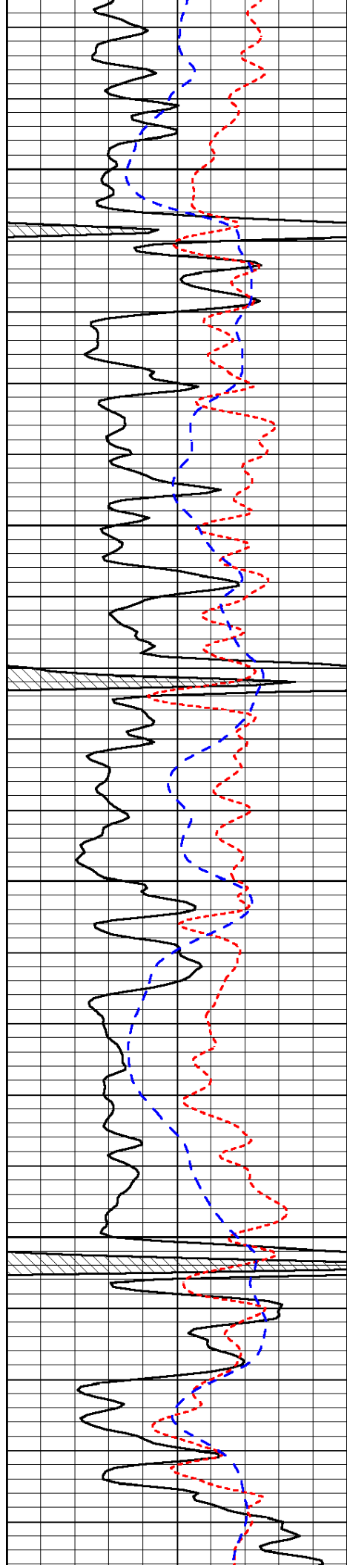


-34

-34

-34

-34

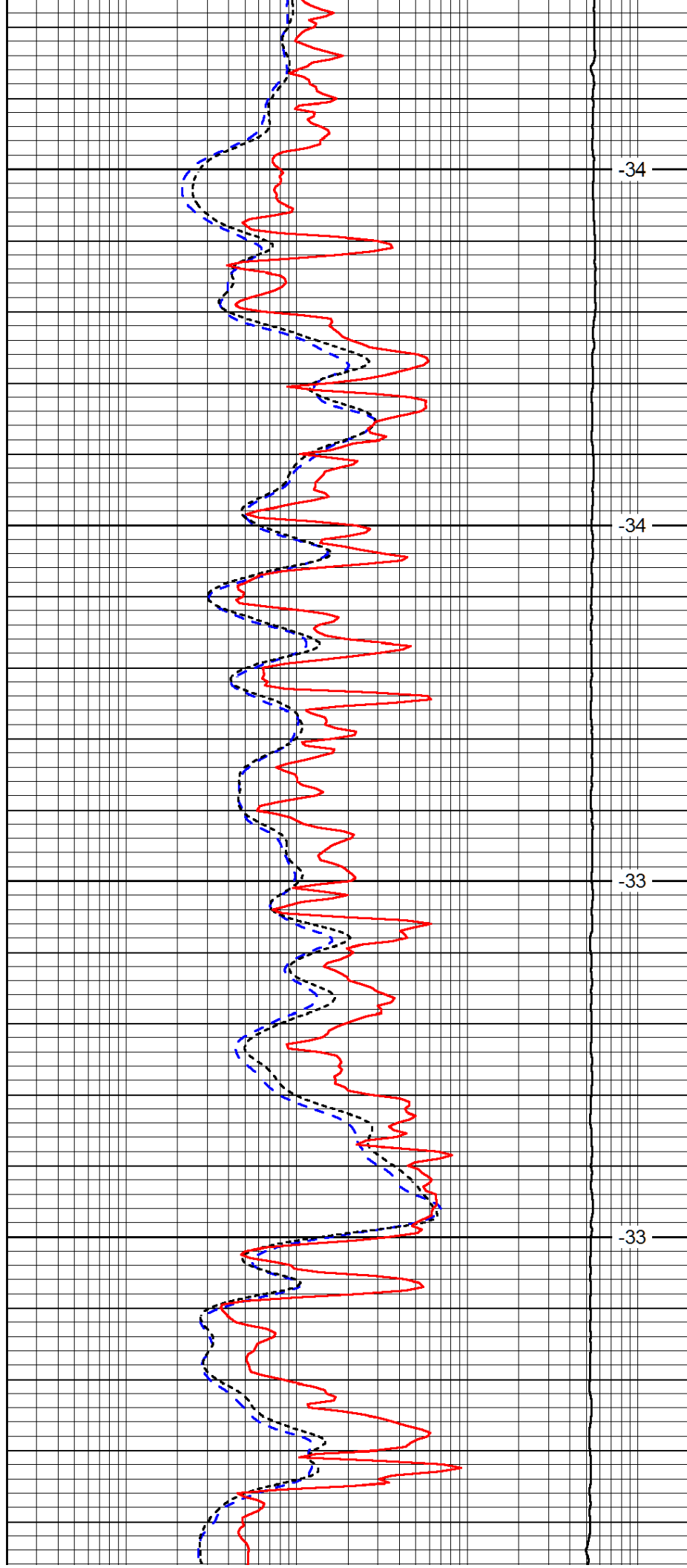


3050

3100

3150

3200

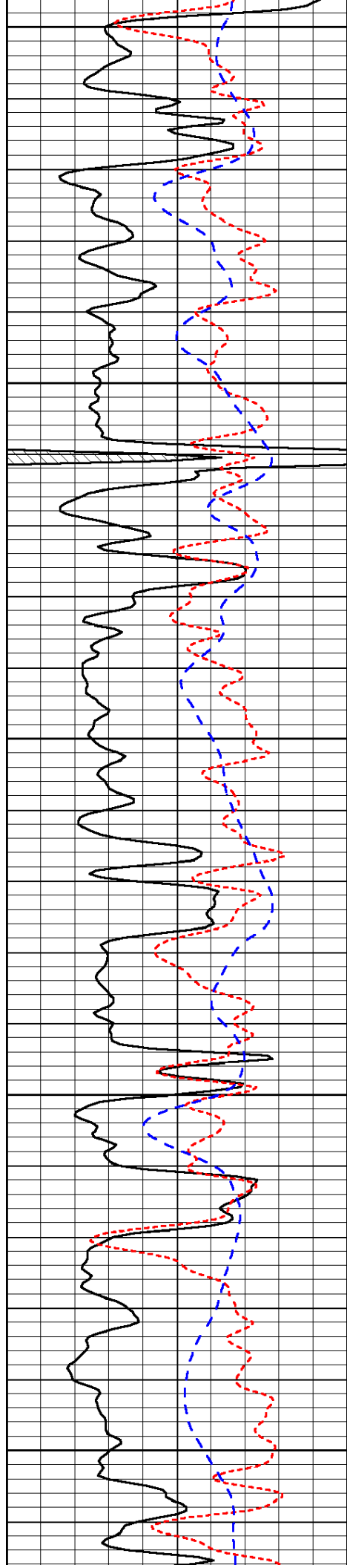


-34

-34

-33

-33



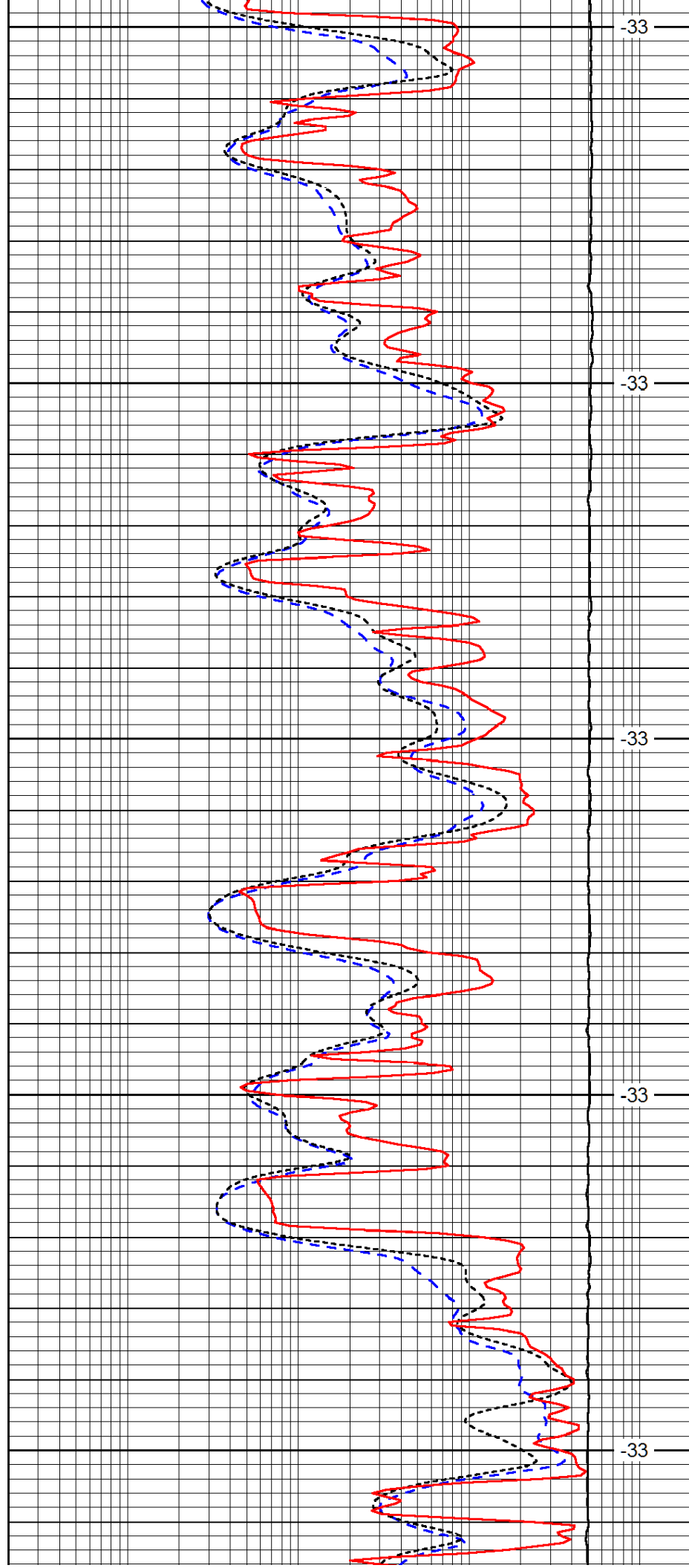
3250

3300

3350

3400

3450



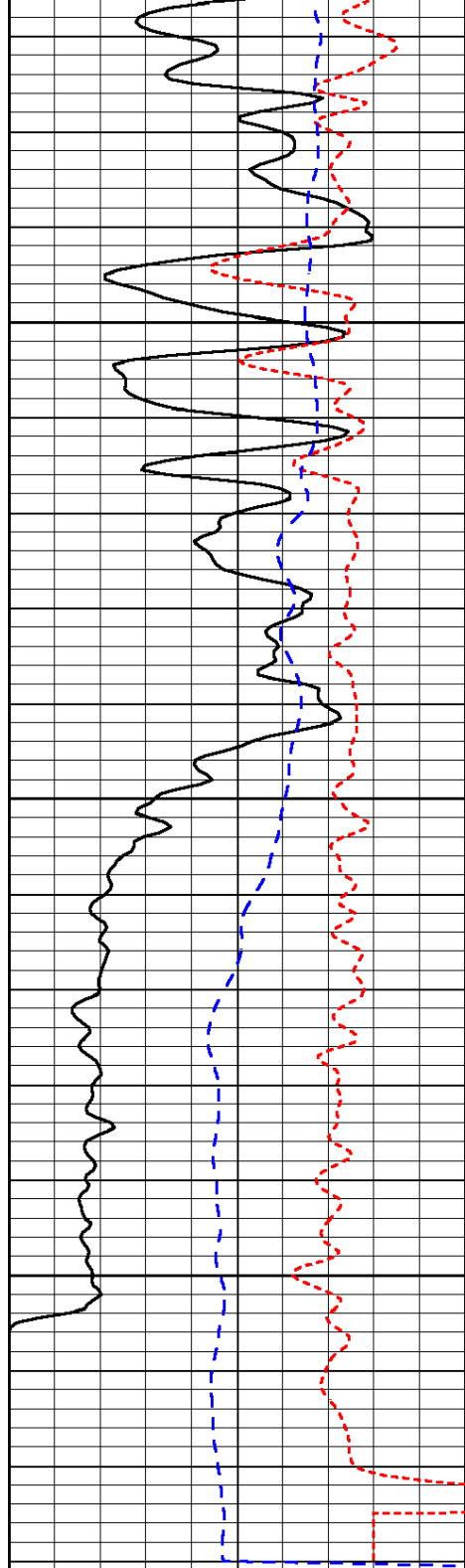
-33

-33

-33

-33

-33

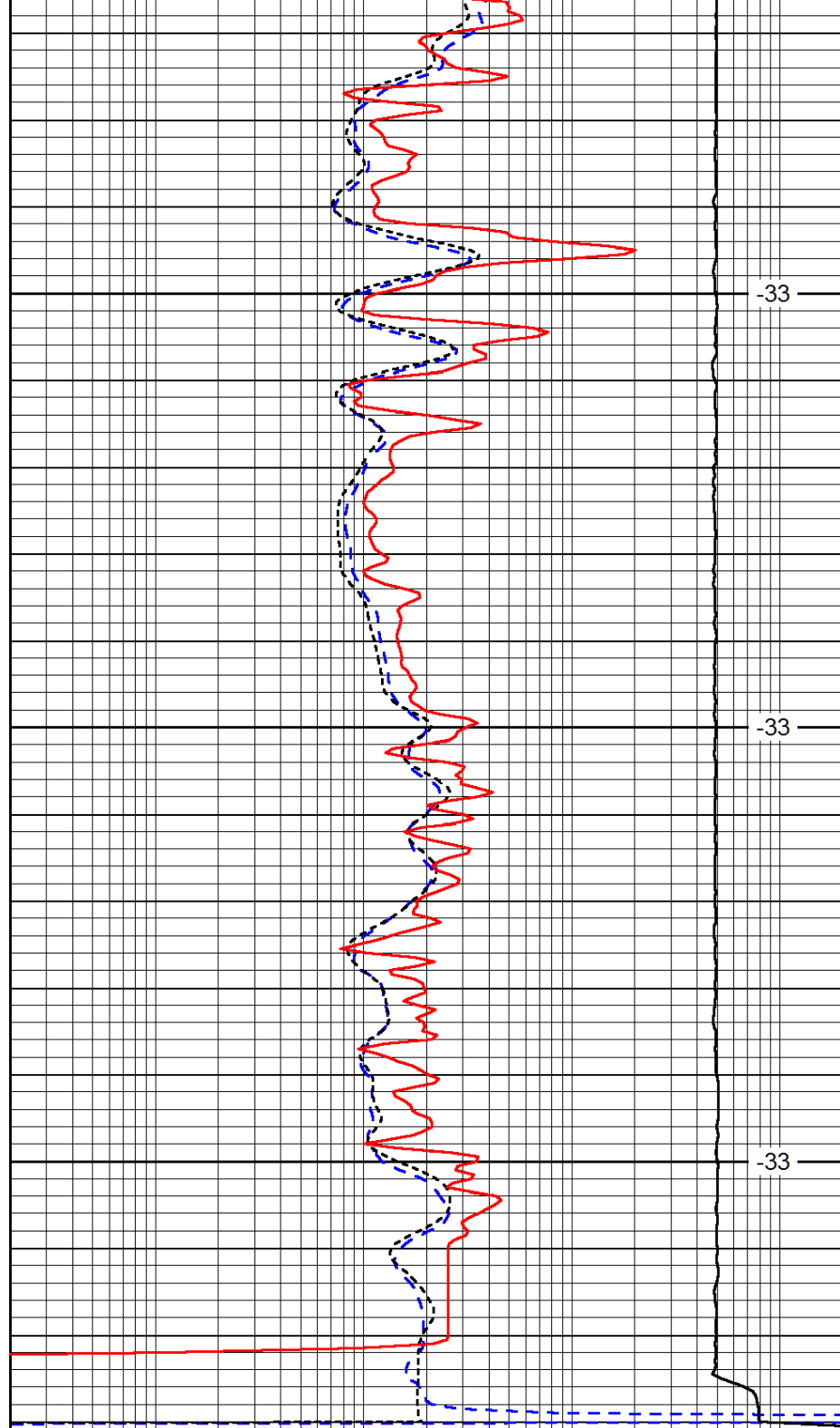


0	Gamma Ray	150
-160	RxoRt	40
-200	SP (mV)	0

3500

3550

3600



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

LSPD