



DIGITAL LOG (785) 625-3858

Dual Induction Log

API No.

15-055-22140-00-00

Company PetroSantander (USA) Inc.

Well Foster #1-18R

Field Christabelle (Morrow) Unit

County Finney State Kansas

Location

NE SW NW NW
728' FNL / 528' FWL

Other Services
CNL / CDL
MEL

Sec: 18 Twp: 21S Rge: 34W

Permanent Datum Ground Level Elevation 3061
Log Measured From Kelly Bushing 13 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Elevation

K.B. 3074
D.F.
G.L. 3061

Date

5/11/2012

Run Number

One

Depth Driller

5000

Depth Logger

4990

Bottom Logged Interval

4989

Top Log Interval

505

Casing Driller

8.625 @ 505

Casing Logger

516

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

3400

Density / Viscosity

9.2 54
10.0 8.8

pH / Fluid Loss

10.0

Source of Sample

Flowline

Rm @ Meas. Temp

0.54 @ 76

Rmf @ Meas. Temp

0.41 @ 76

Rmc @ Meas. Temp

0.73 @ 76

Source of Rmf / Rmc

Charts

Rm @ BHT

0.33 @ 126

Operating Rig Time

5 Hours

Max Rec. Temp. F

126

Equipment Number

15

Location

Hays

Recorded By

R. Barnhart

Witnessed By

Gordon Austin

<<< 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

Garden City, KS:
13N to Gano Rd, 11W to Byrd Rd,
3N, 3/4W, S into

Database File: c:\warrior\data\petrosantander_foster #1-18\petrosanhd2.db
Dataset Pathname: dil/ptmain
Presentation Format: dil2in
Dataset Creation: Sat May 12 00:25:40 2012
Charted by: Depth in Feet scaled 1:600

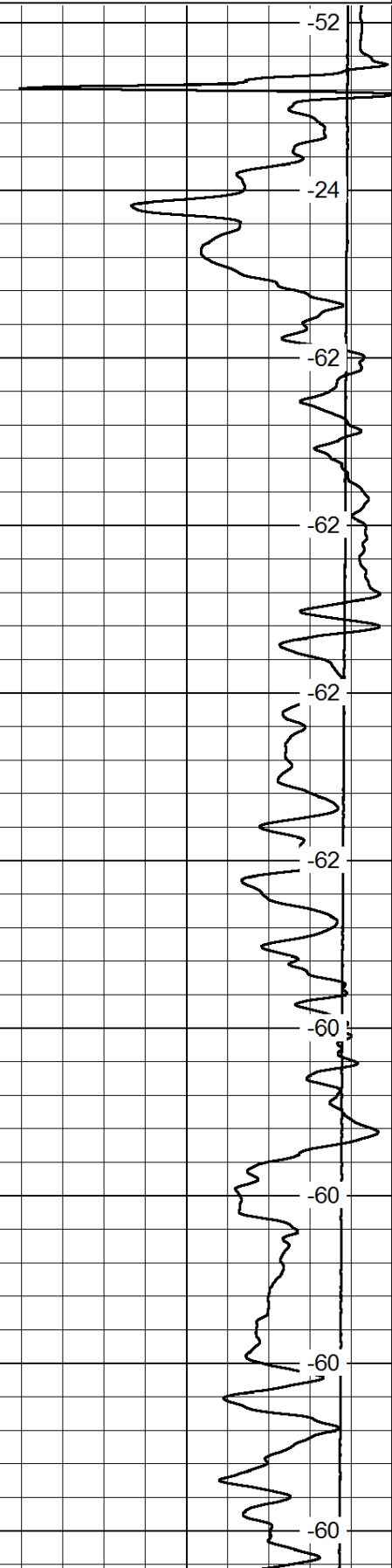
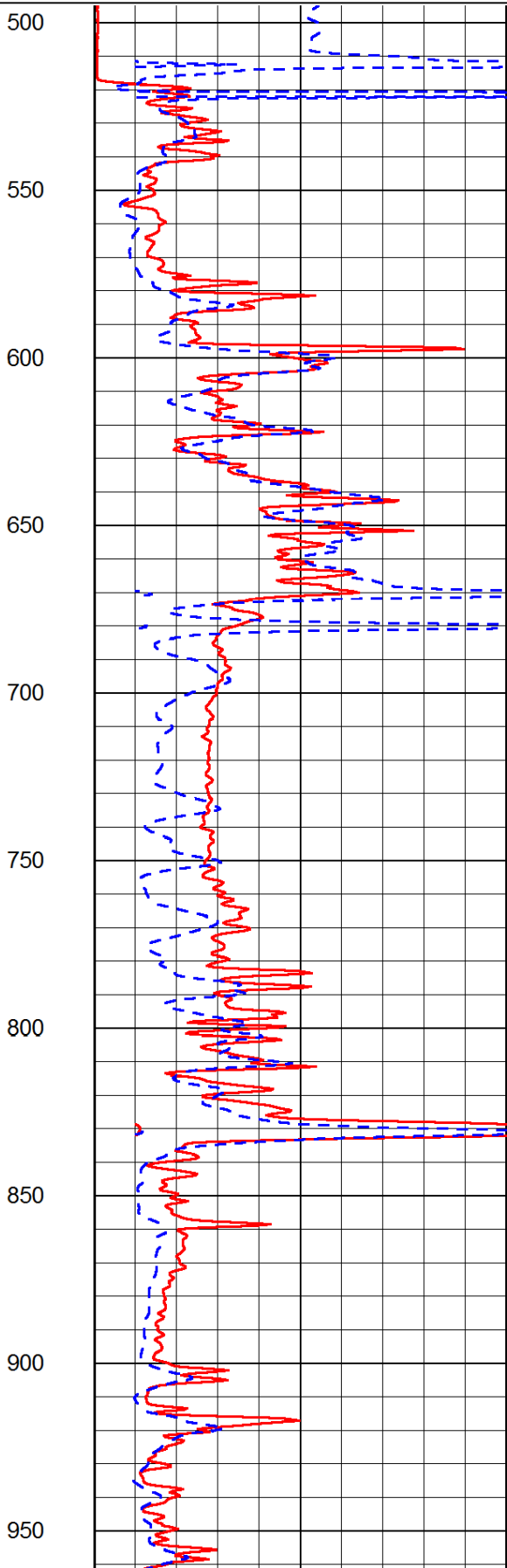
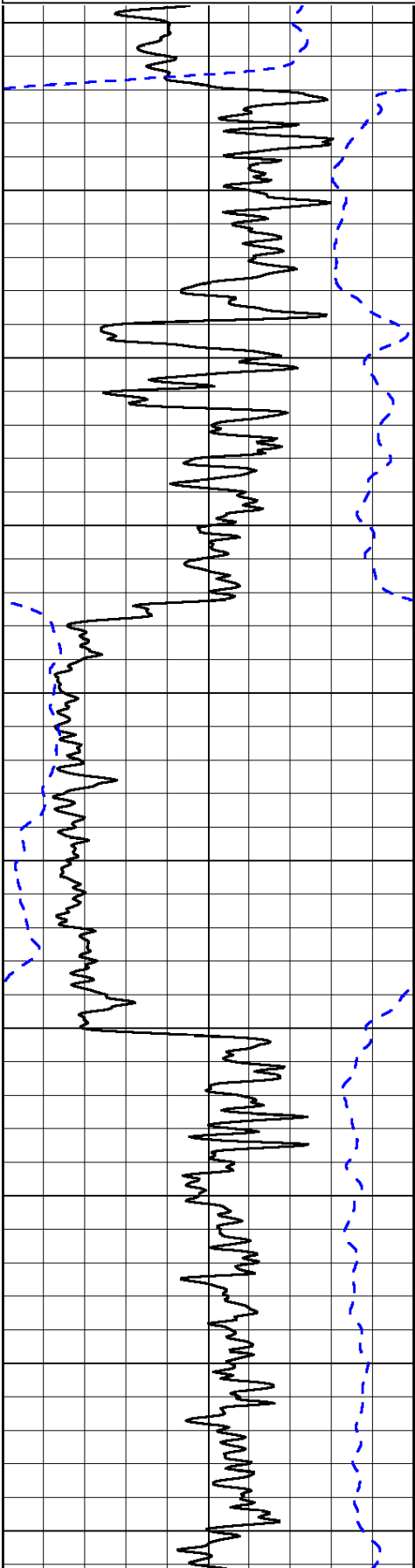
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-200	SP (mV)	0

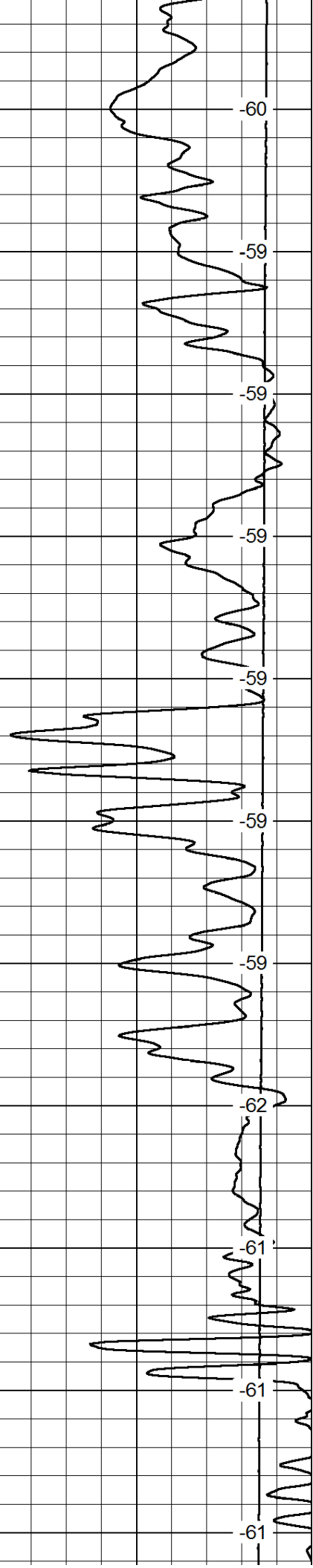
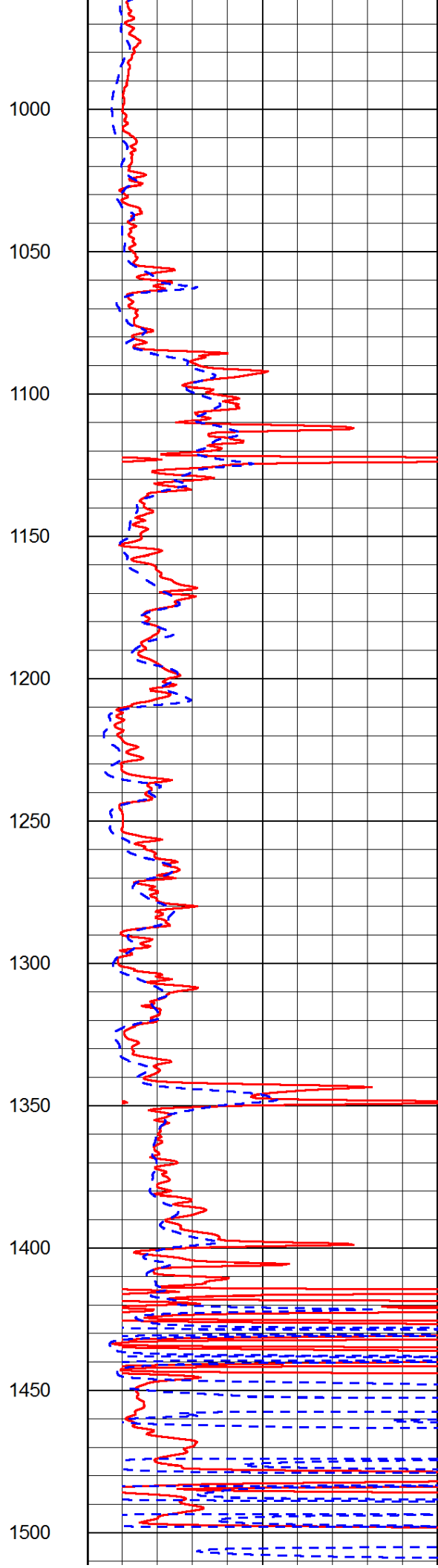
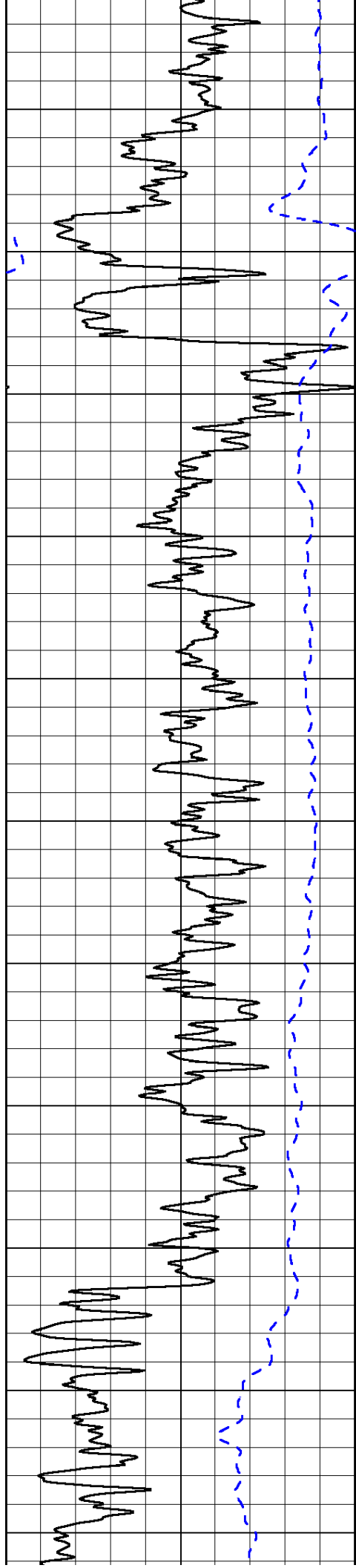
0	Shallow Resistivity	50
0	Deep Resistivity	50

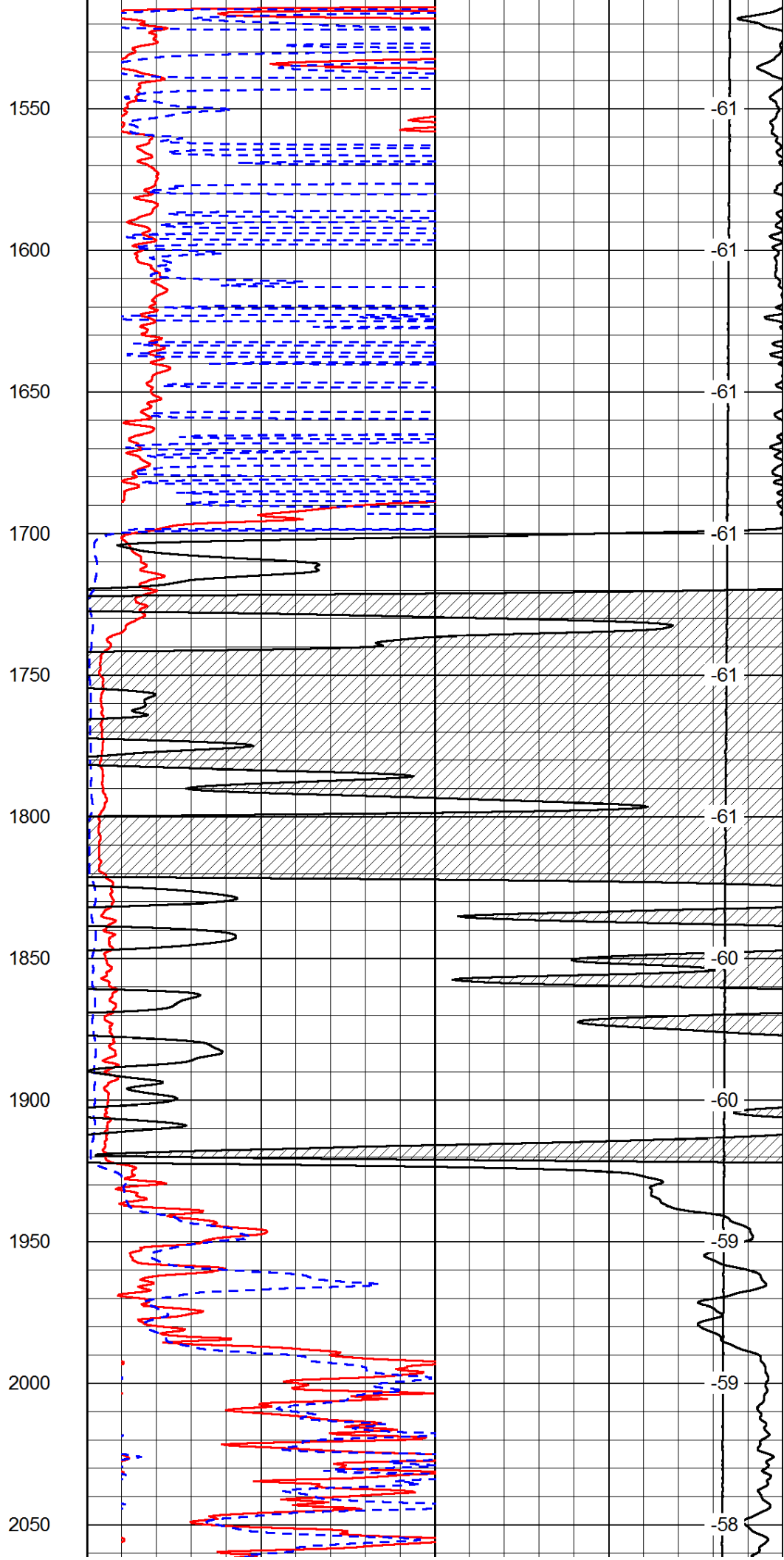
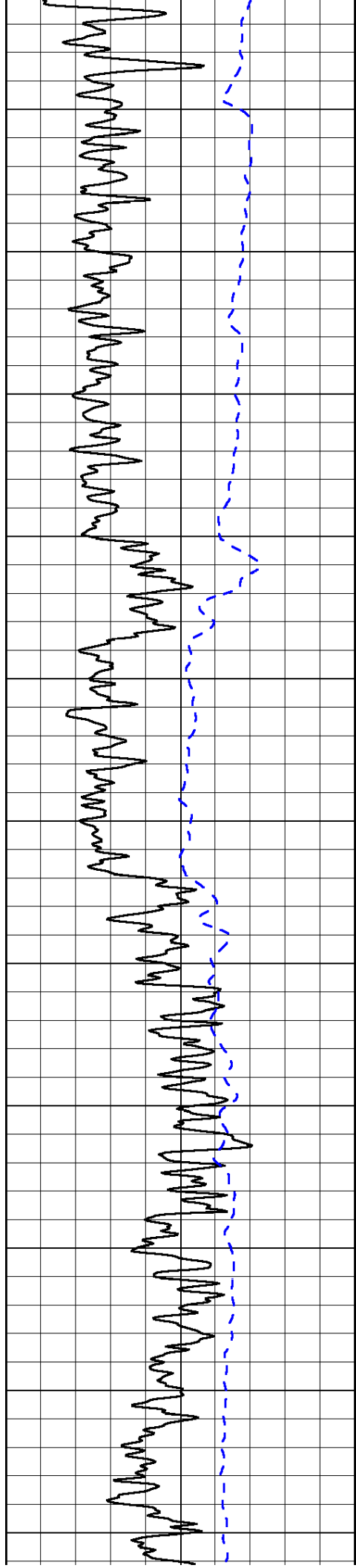
LSPD

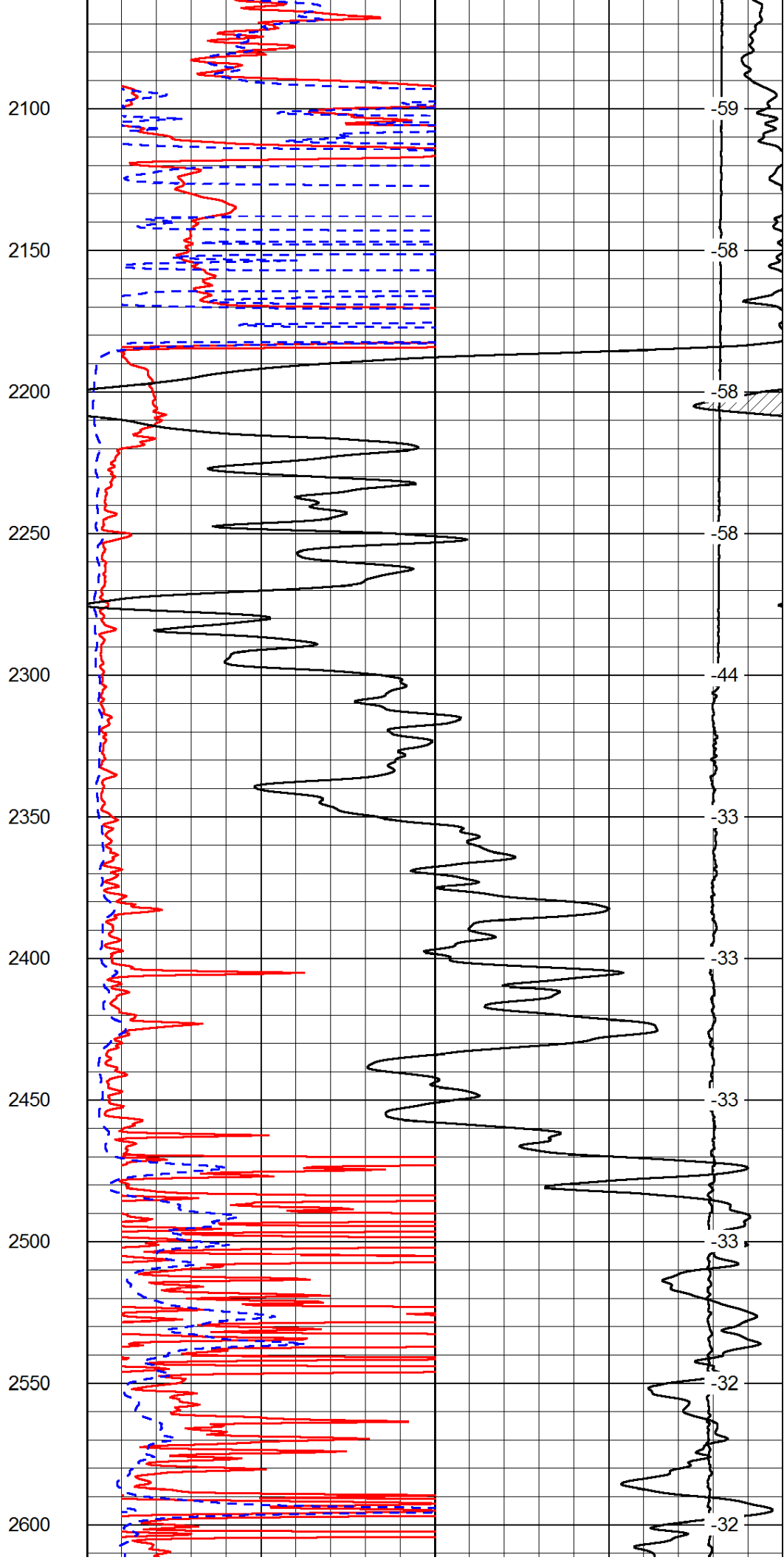
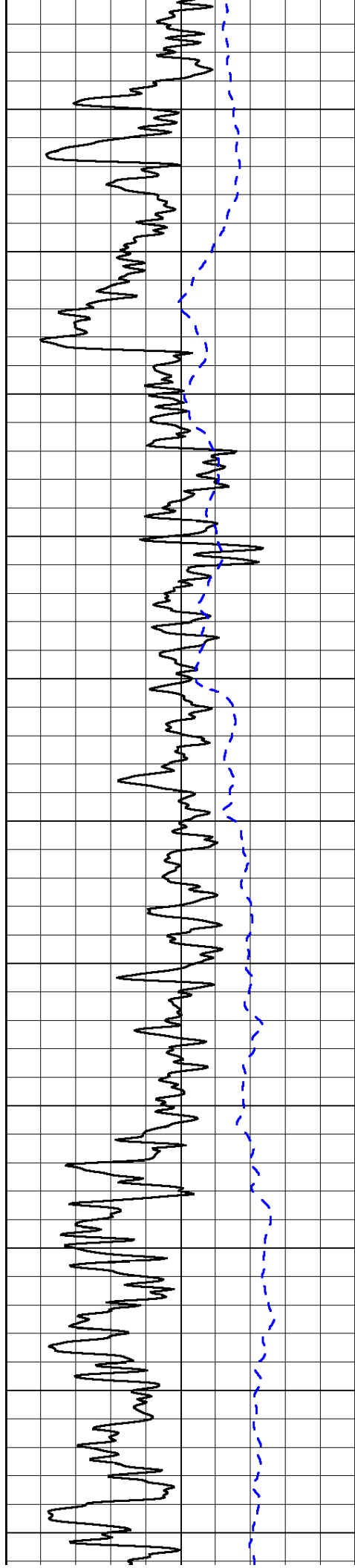
1000	Conductivity	0
15000	Line Tension	0

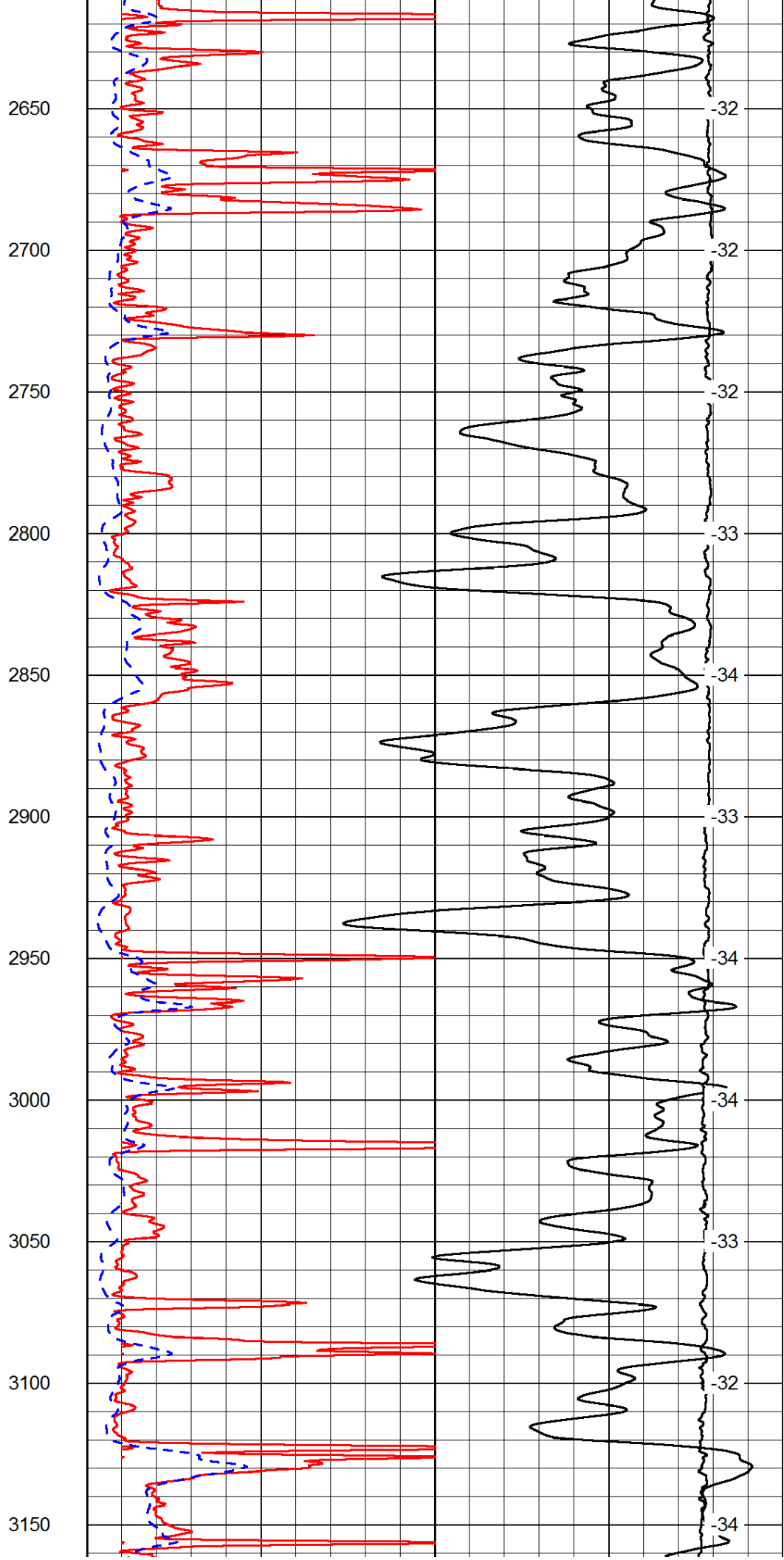
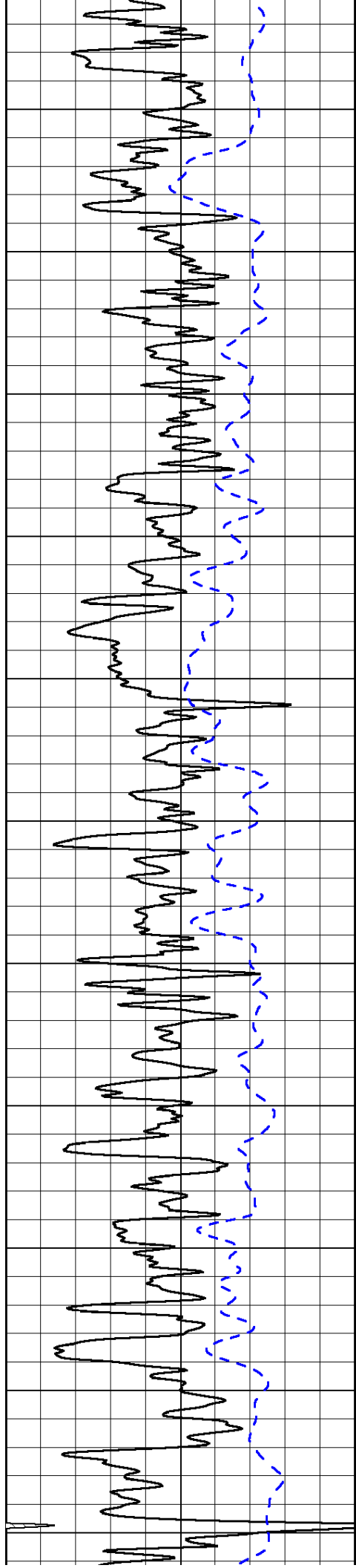
50	Shallow Resistivity	500
50	Deep Resistivity	500

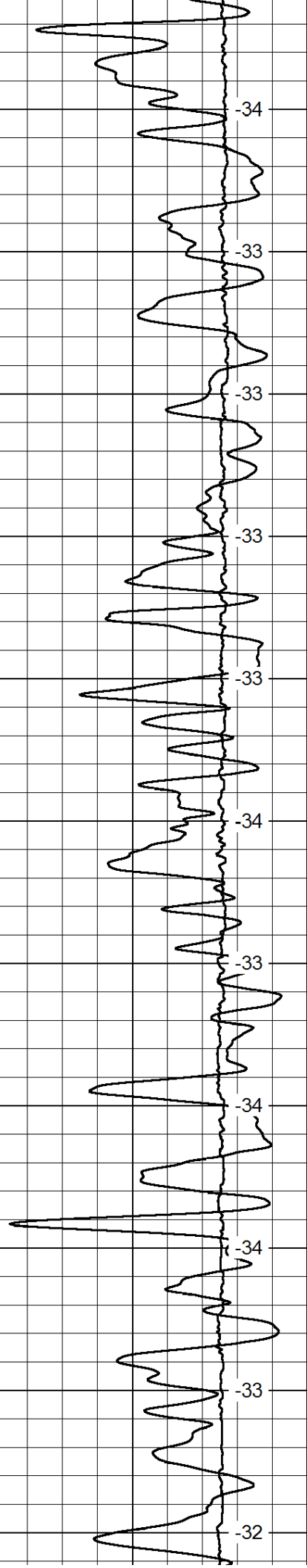
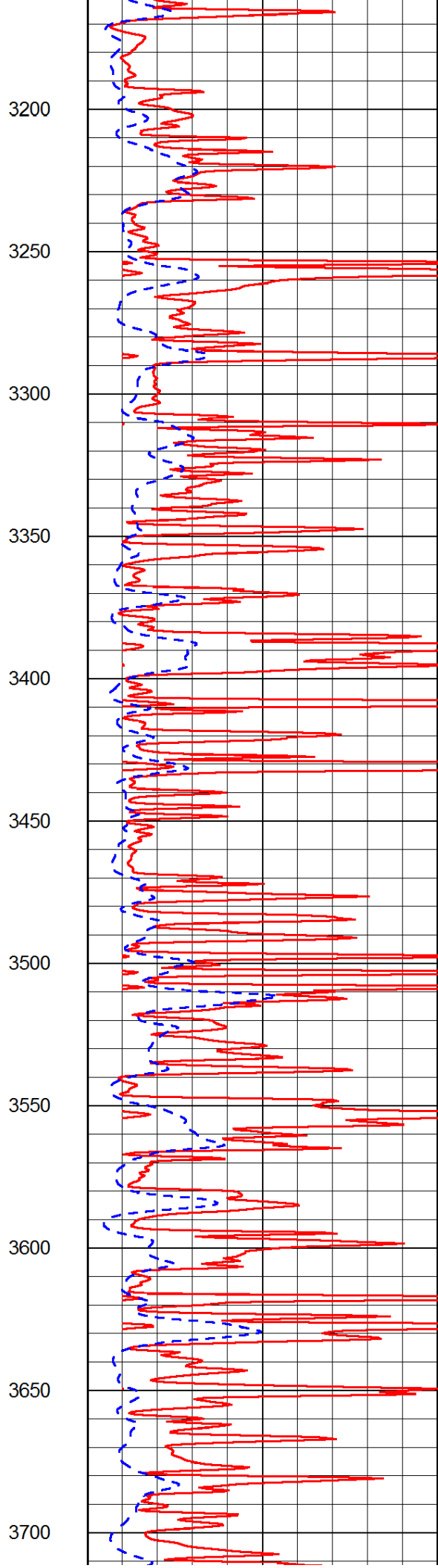
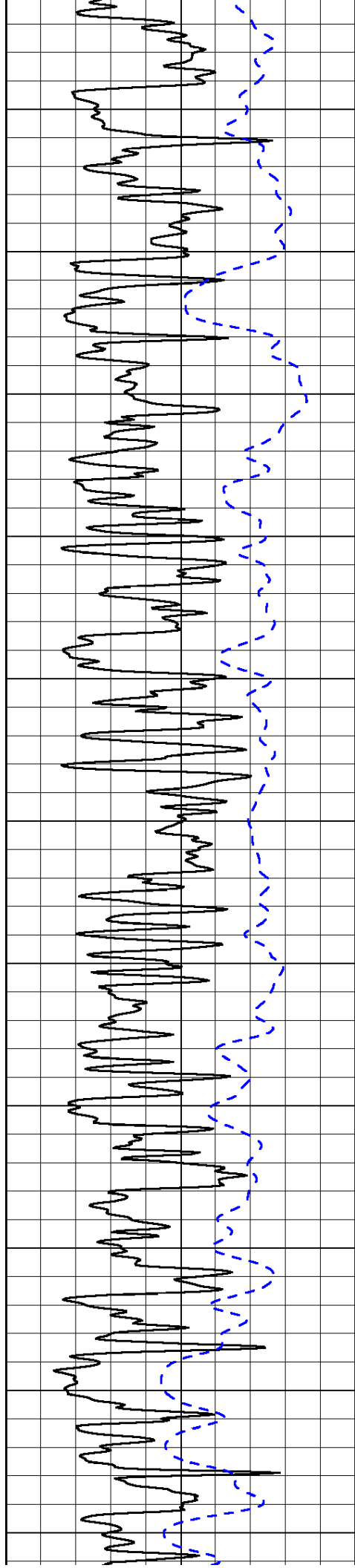


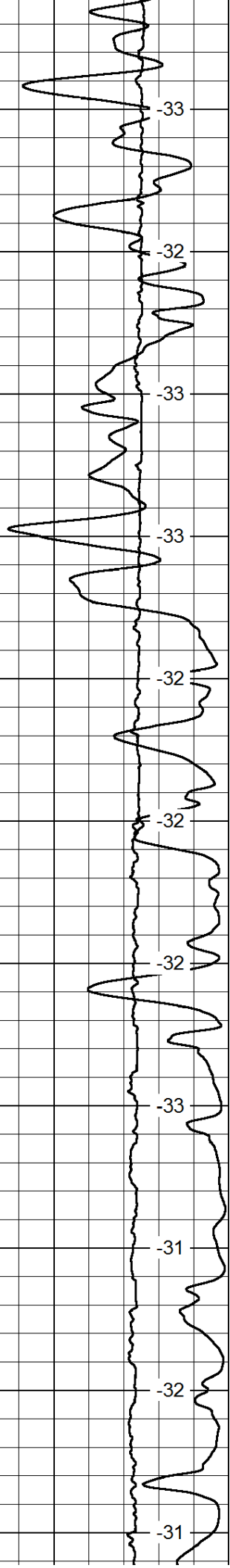
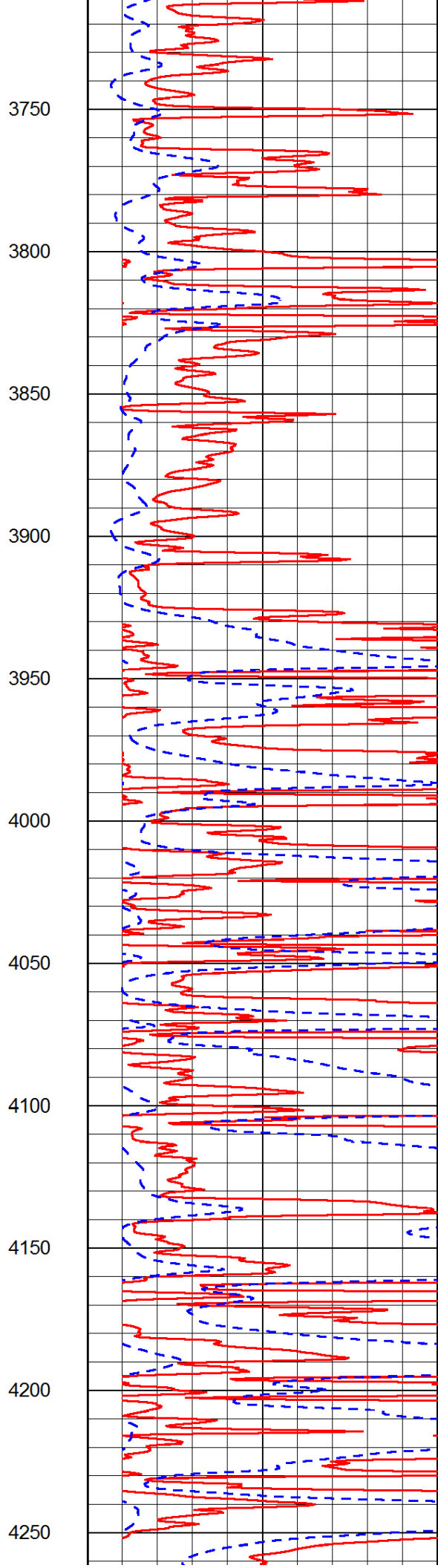
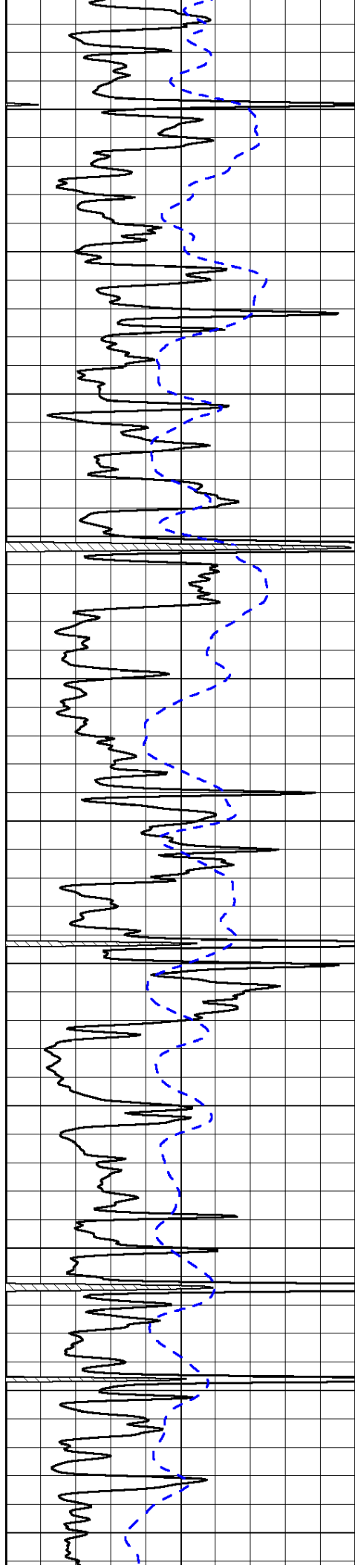


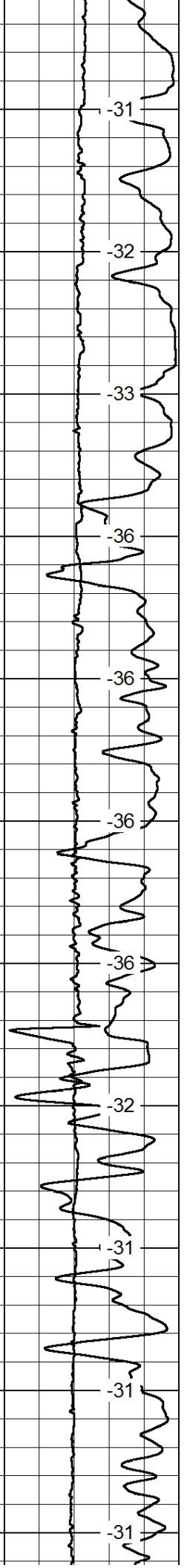
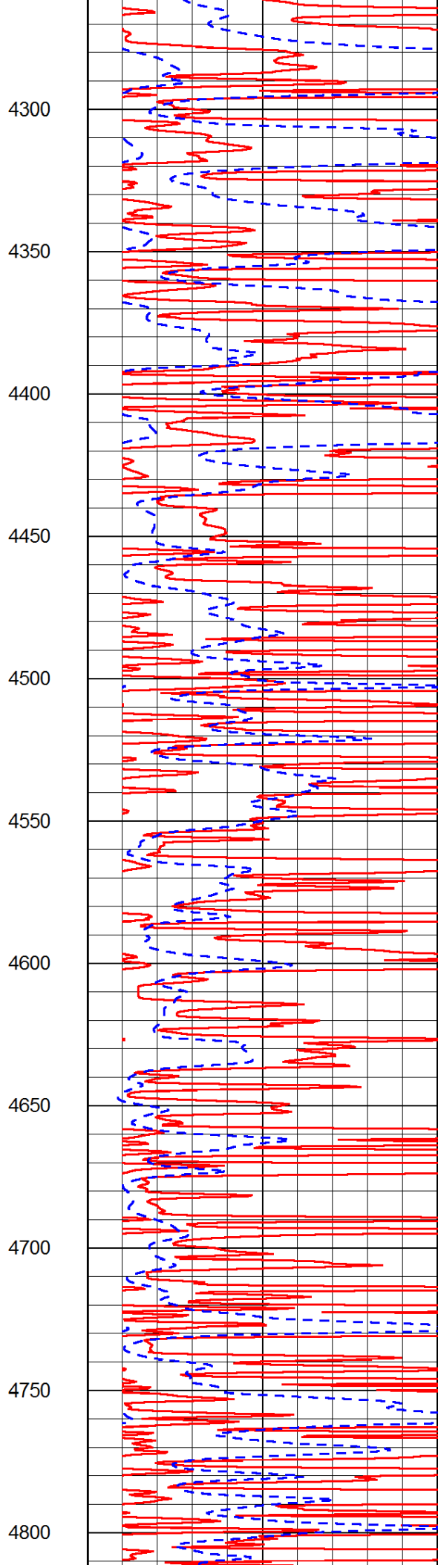
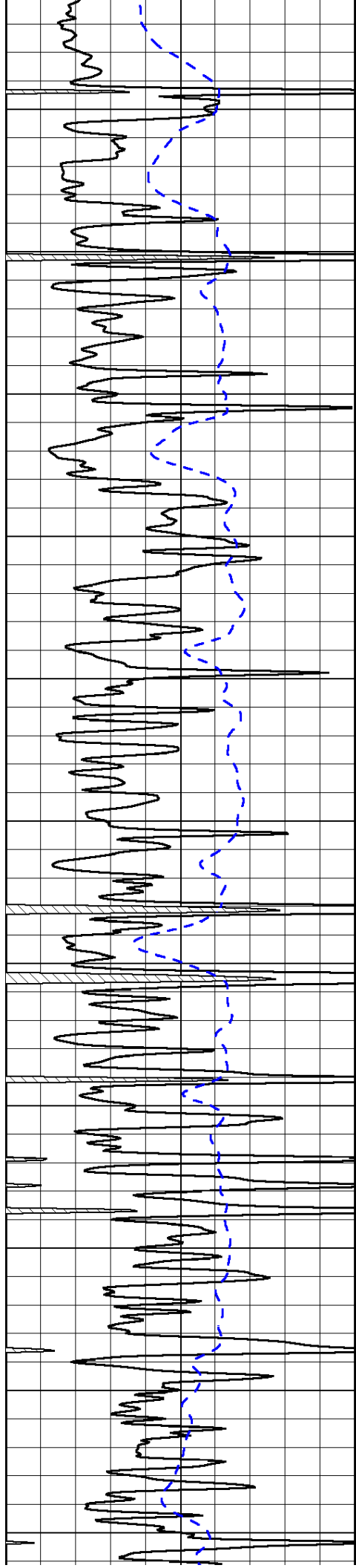


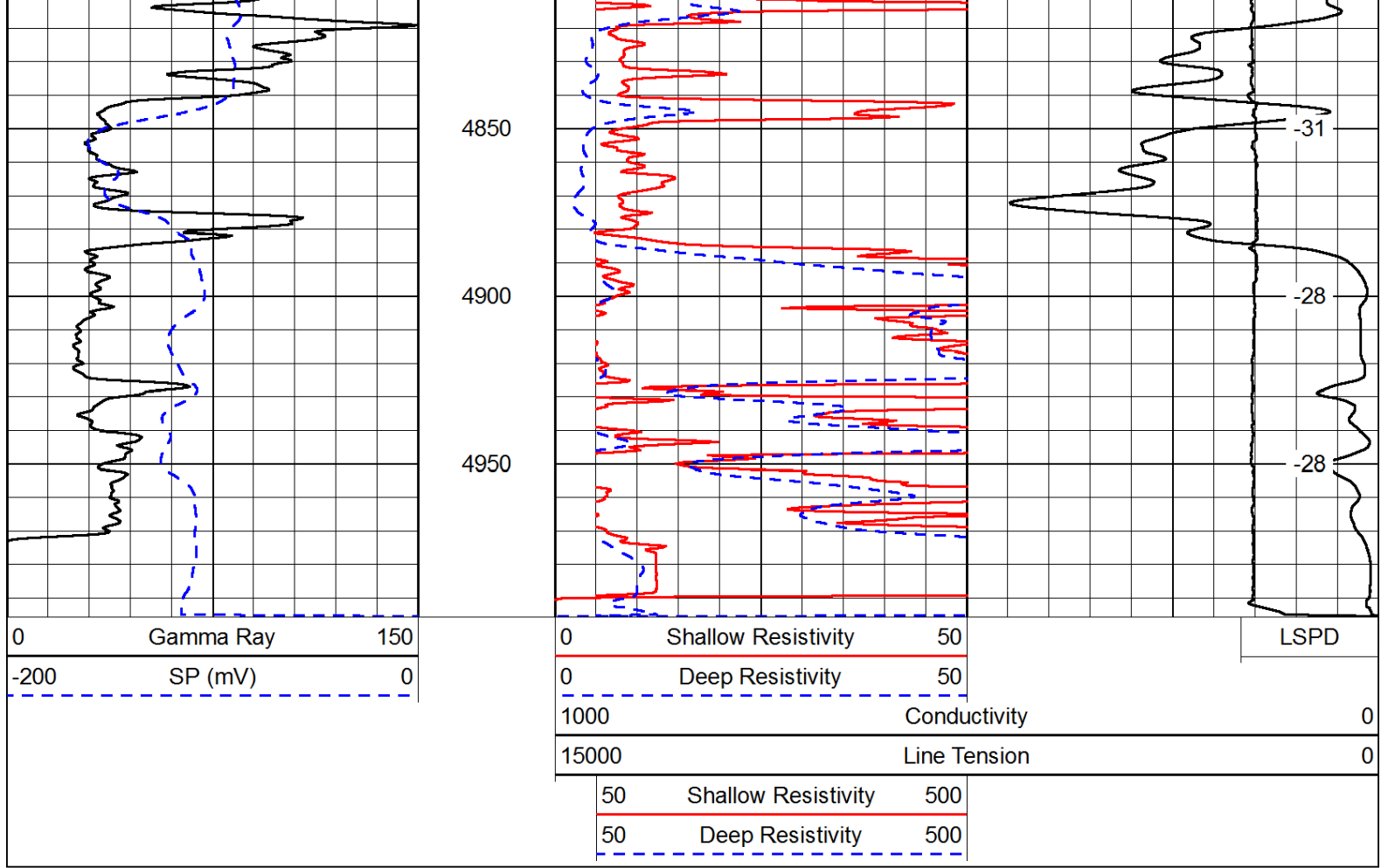




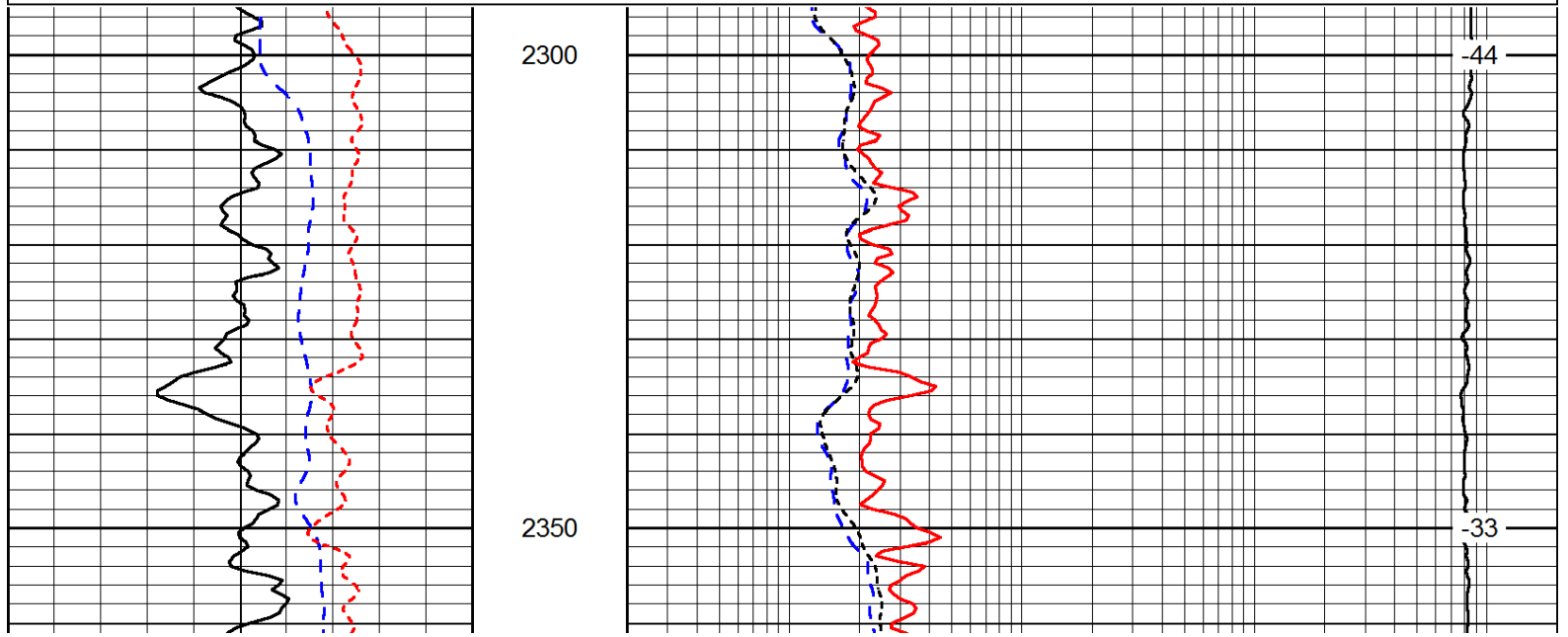
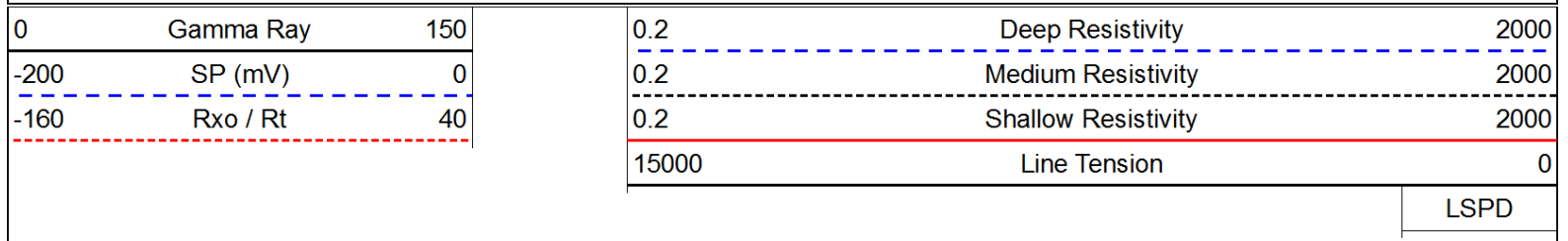


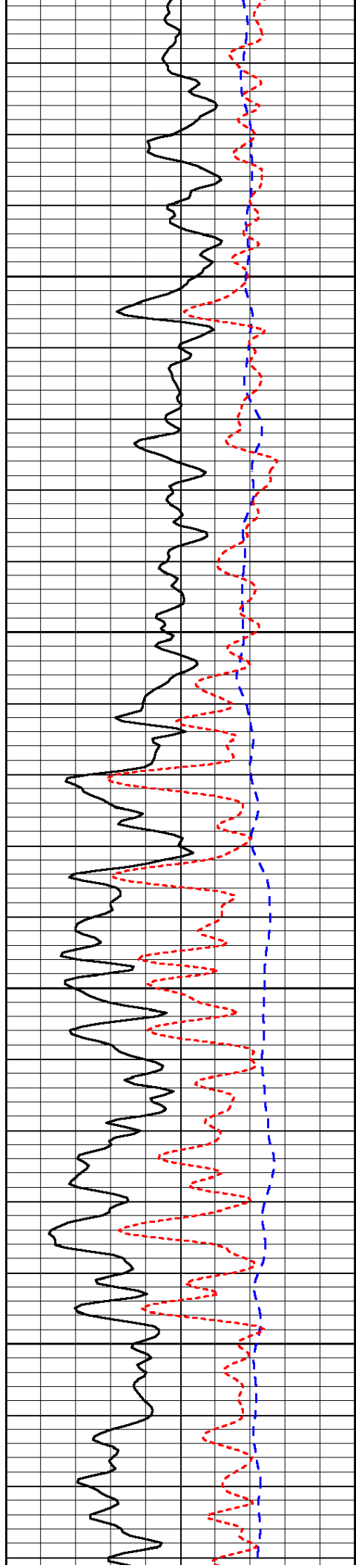






Database File: c:\warrior\data\petrosantander_foster #1-18r\petrosanhd2.db
 Dataset Pathname: dil/ptmain
 Presentation Format: dil
 Dataset Creation: Sat May 12 00:25:40 2012
 Charted by: Depth in Feet scaled 1:240



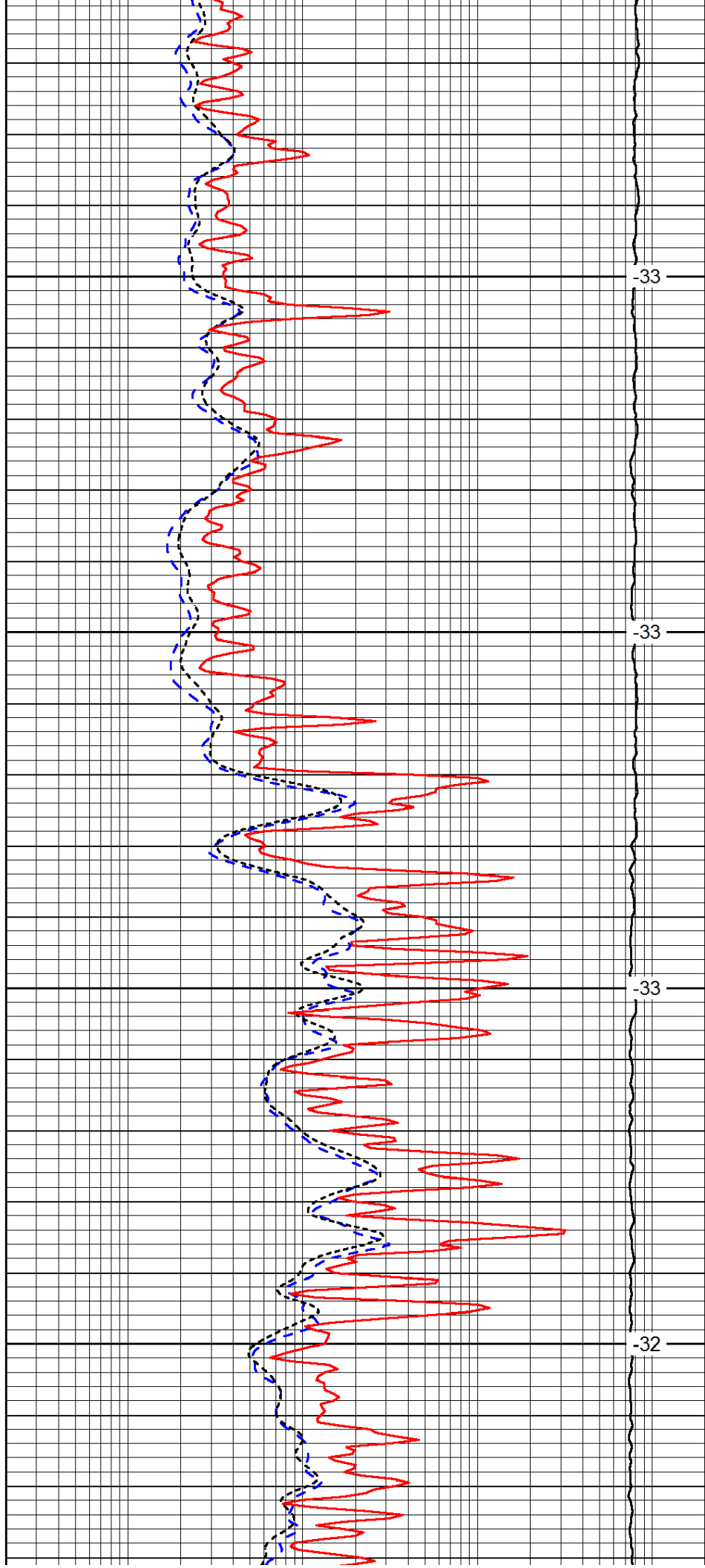


2400

2450

2500

2550

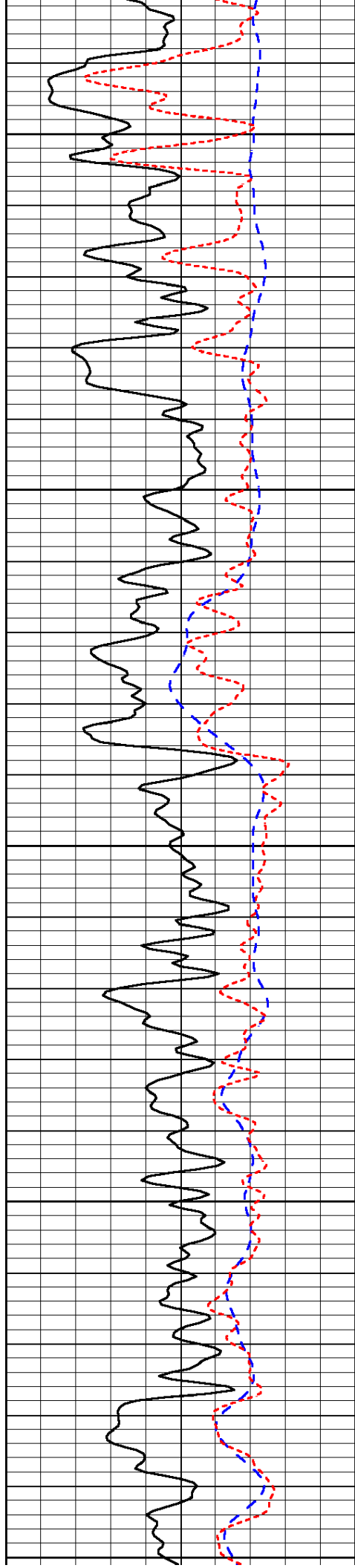


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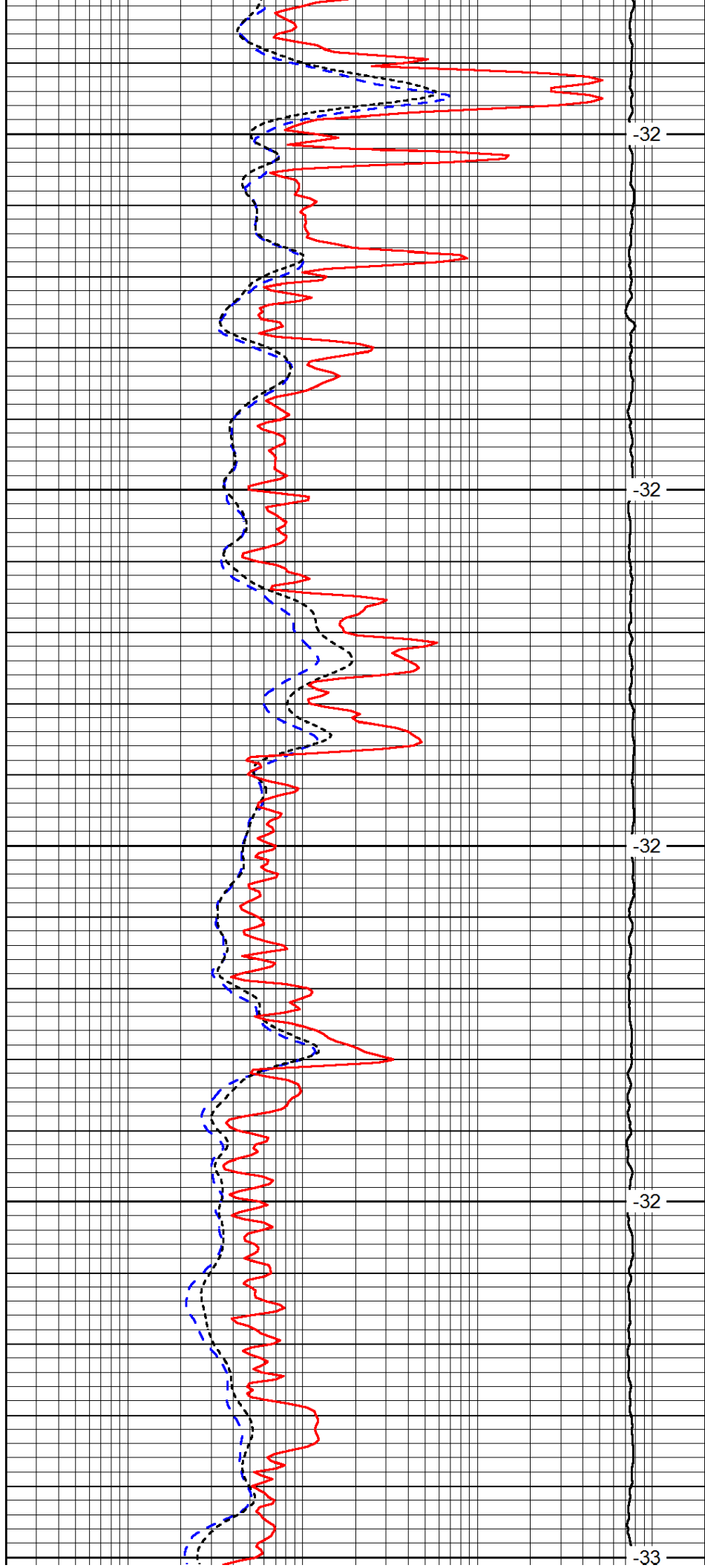
2600

2650

2700

2750

2800



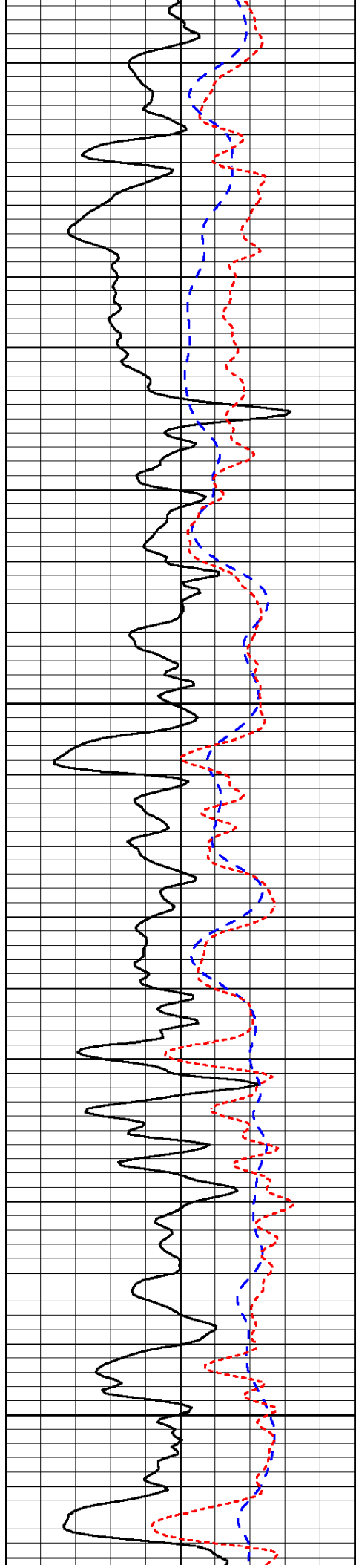
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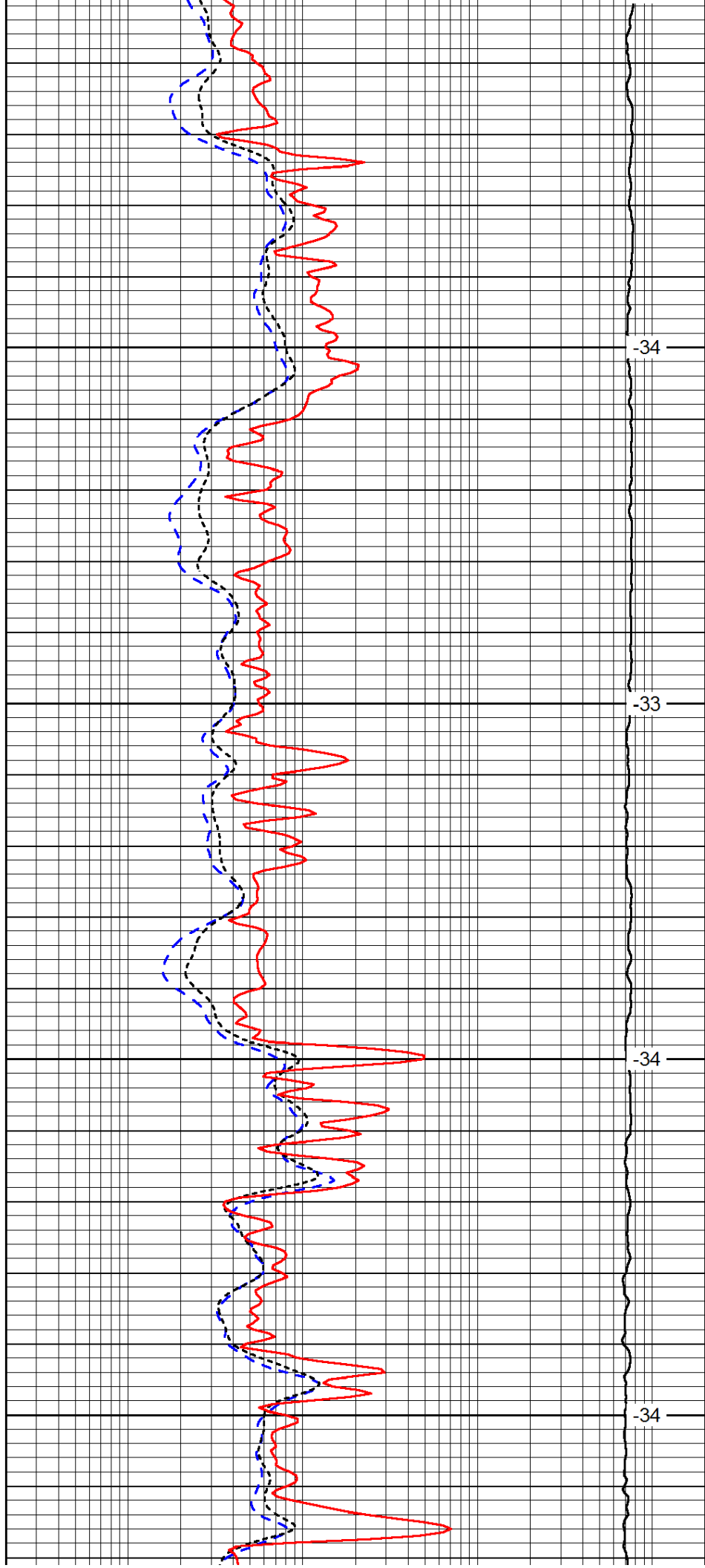


2850

2900

2950

3000

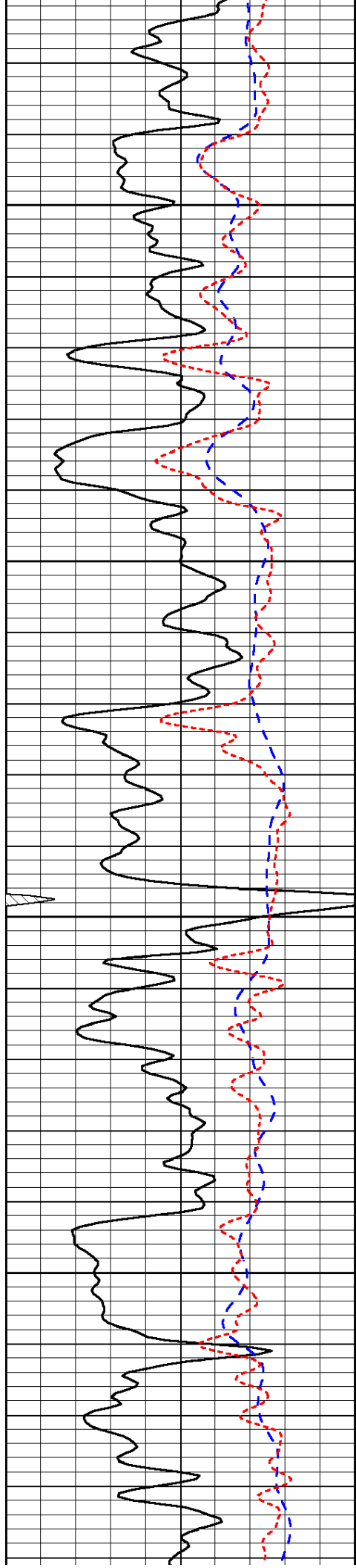


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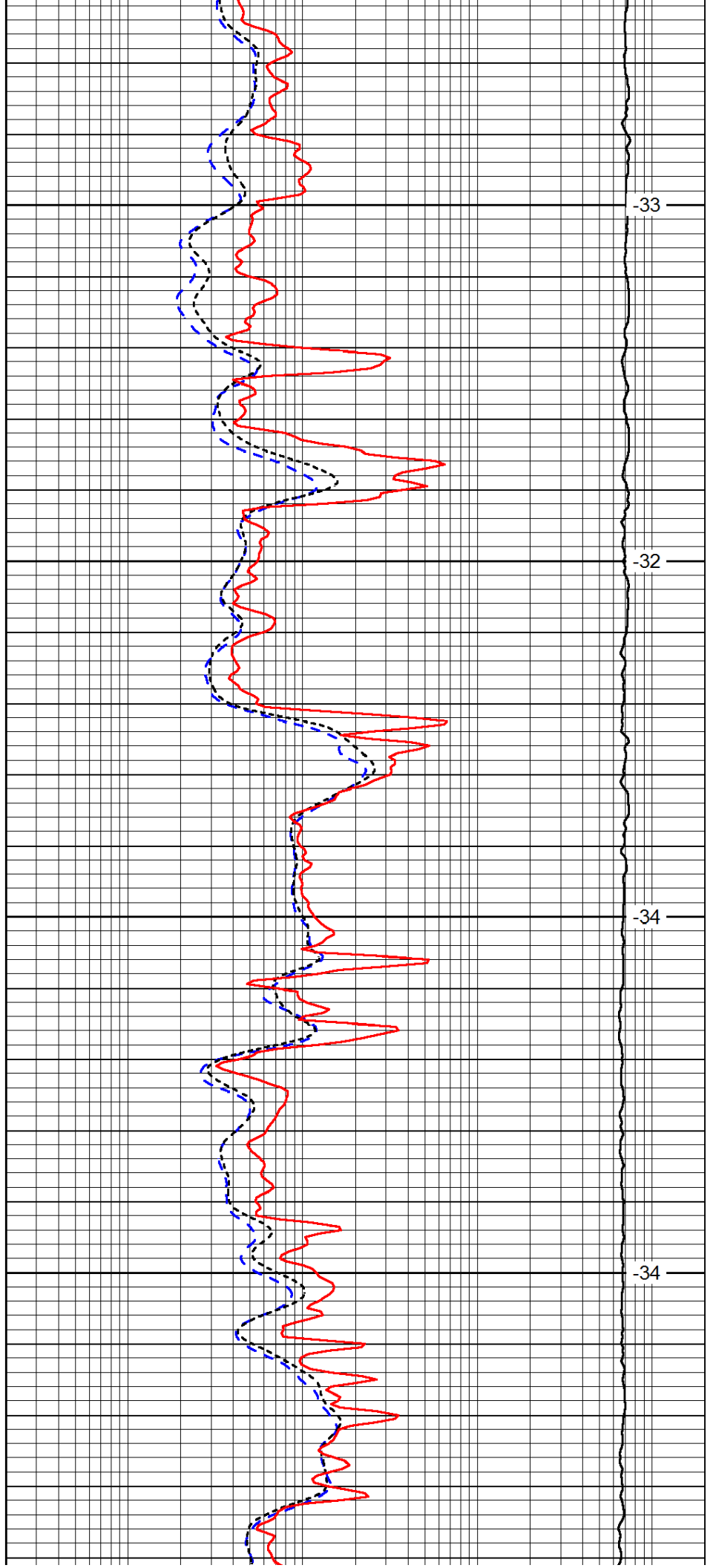


3050

3100

3150

3200

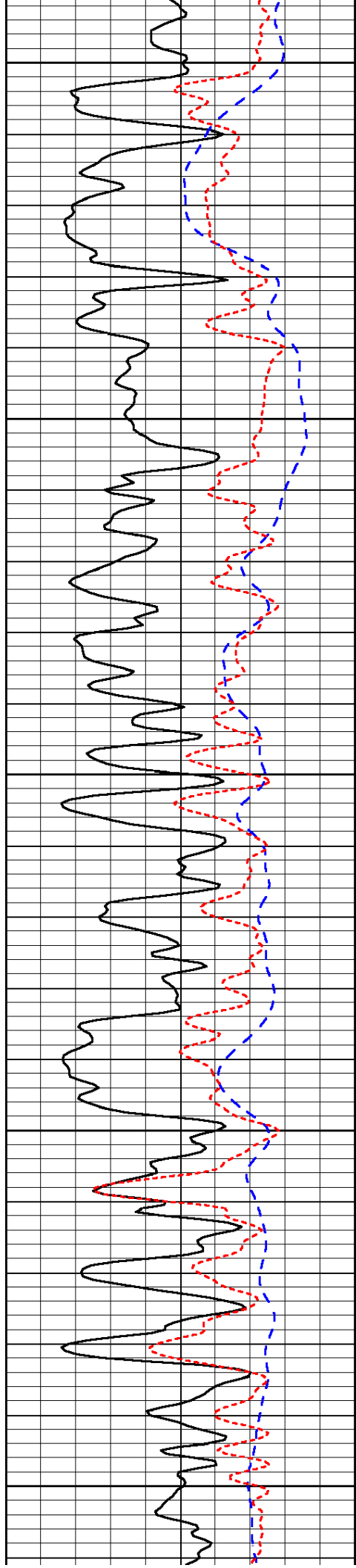


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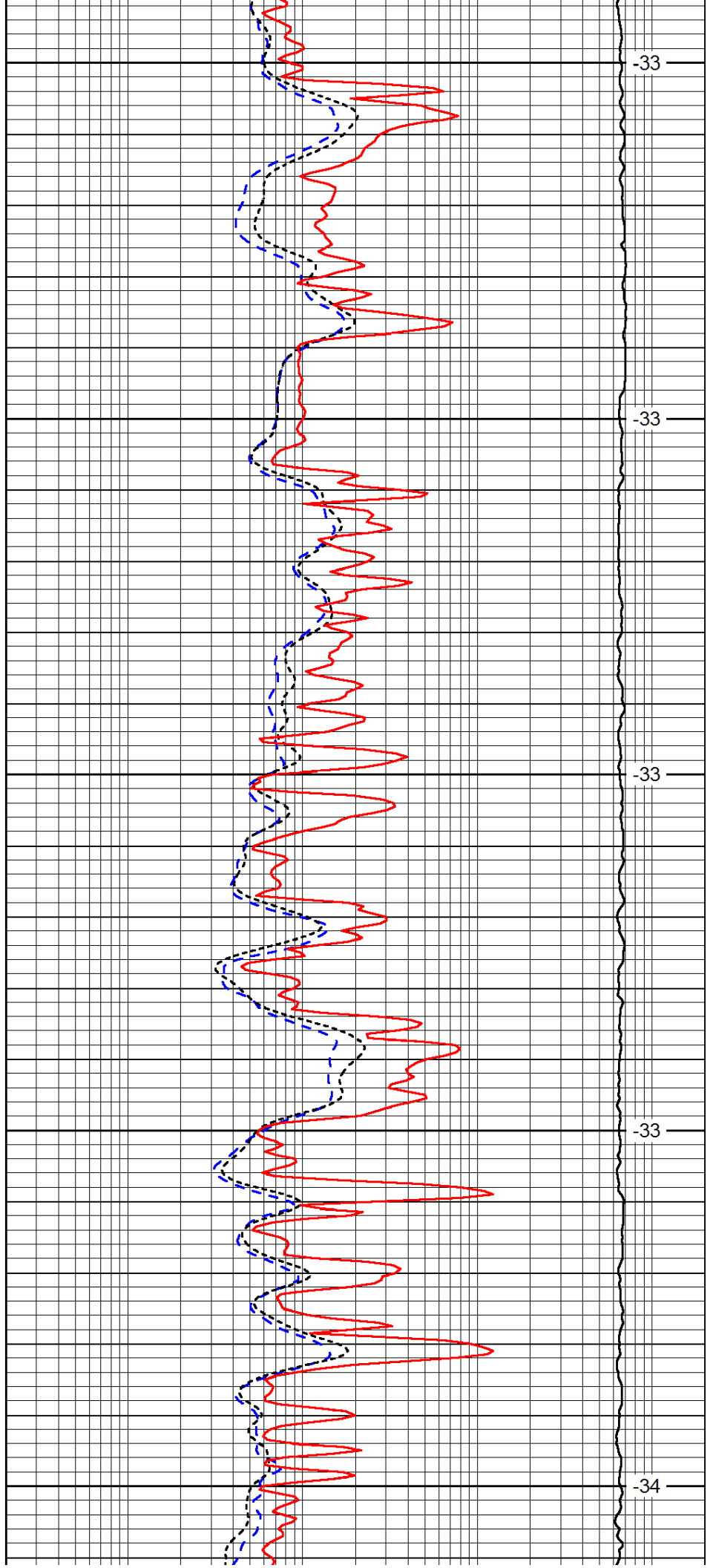
3250

3300

3350

3400

3450



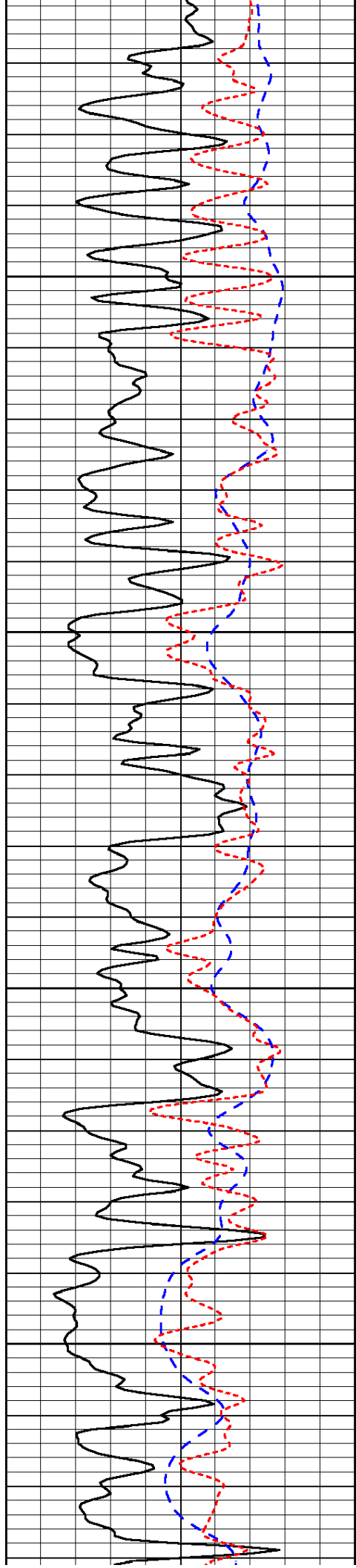
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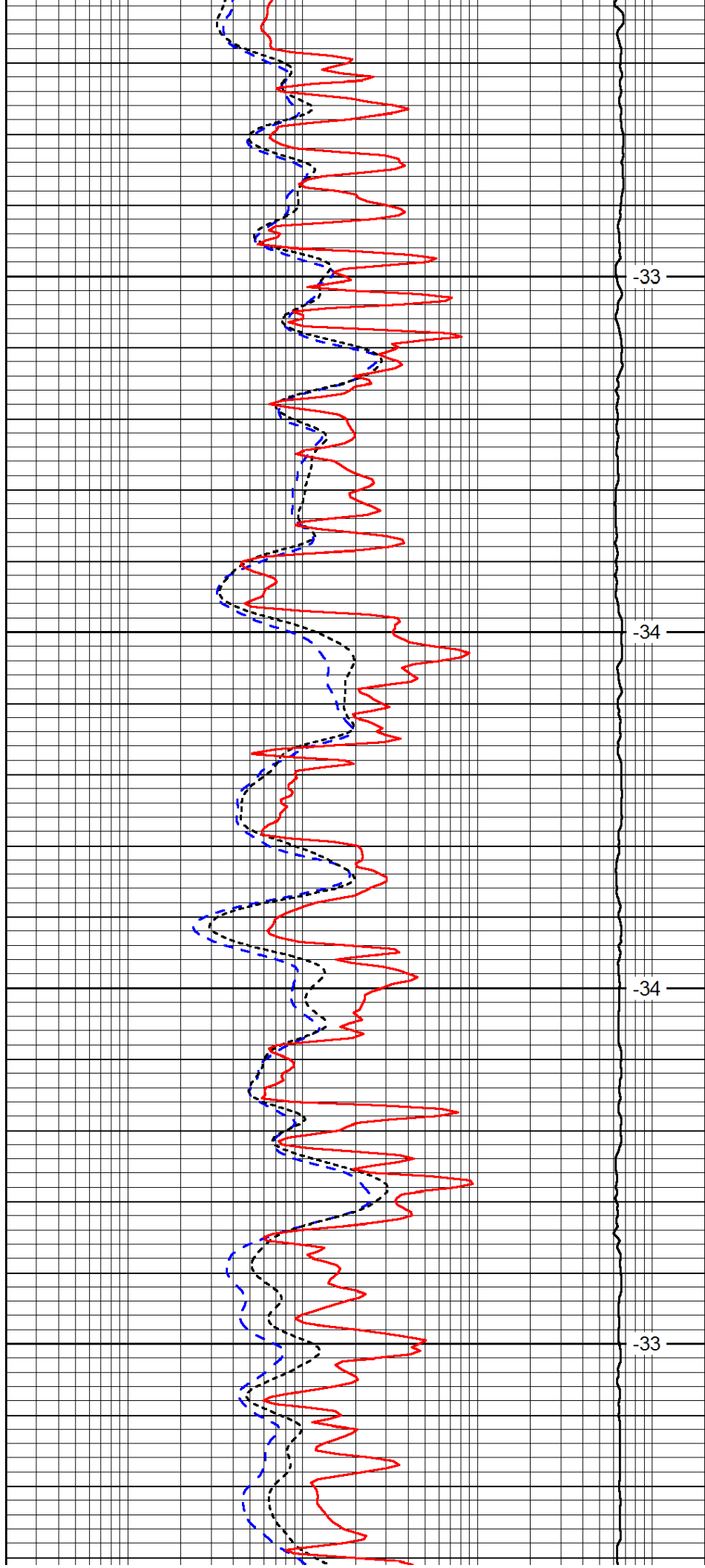


3500

3550

3600

3650

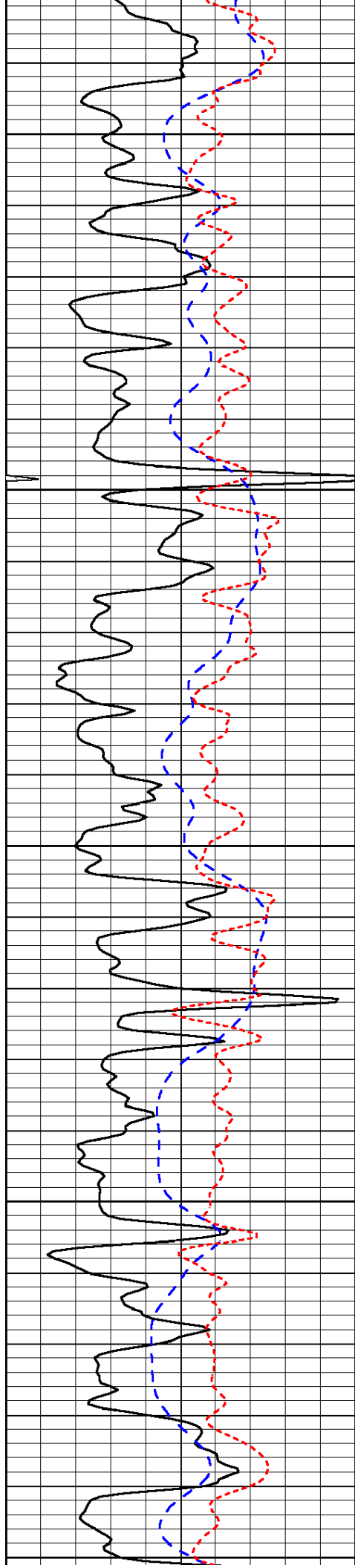


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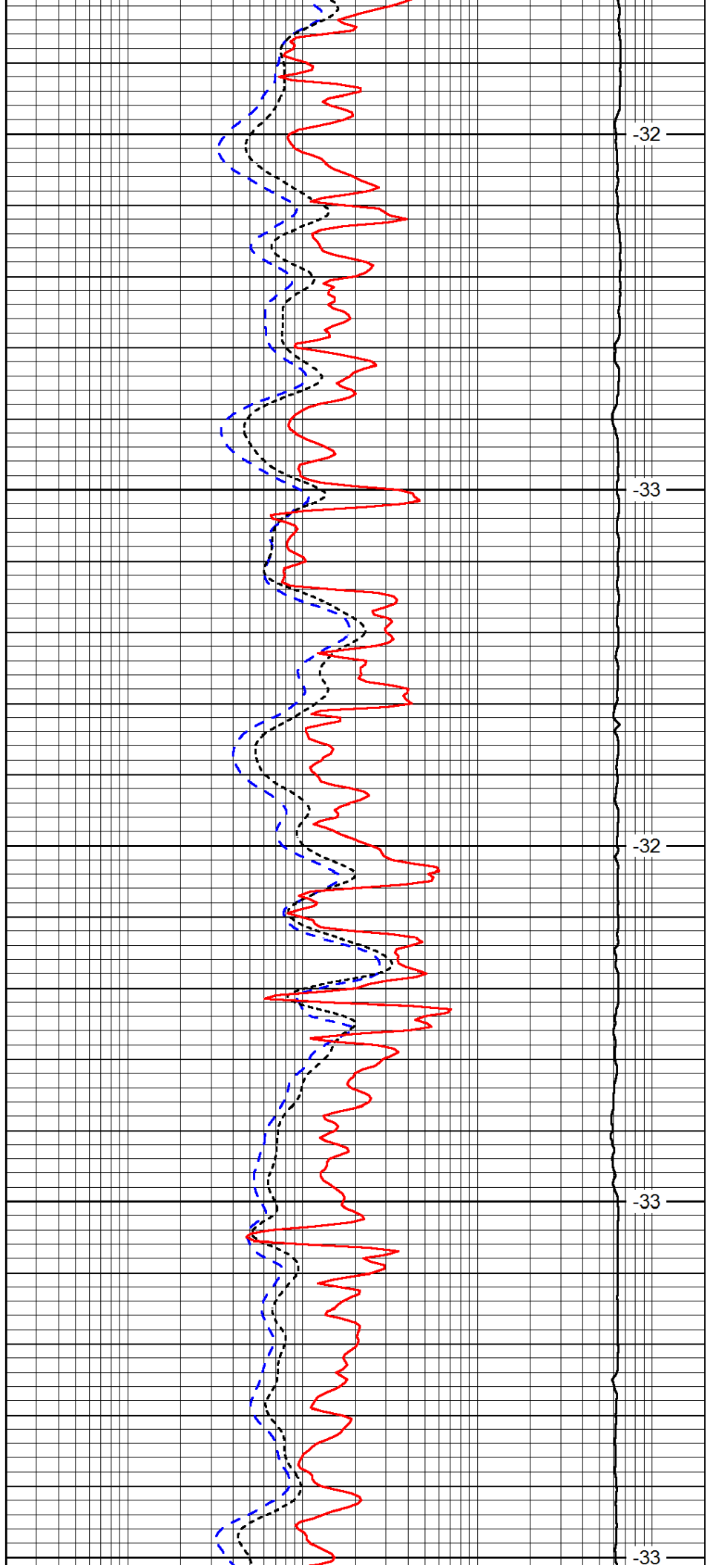
3700

3750

3800

3850

3900



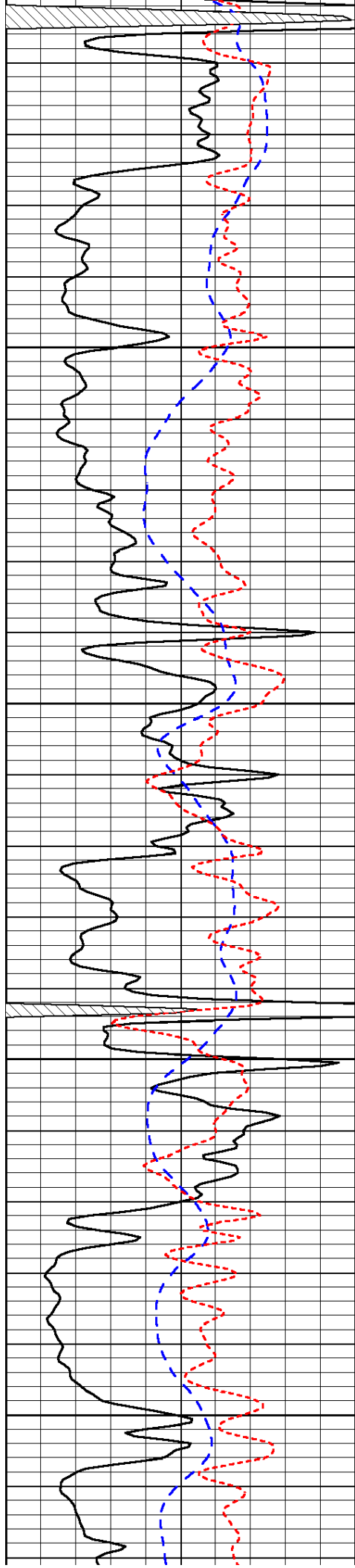
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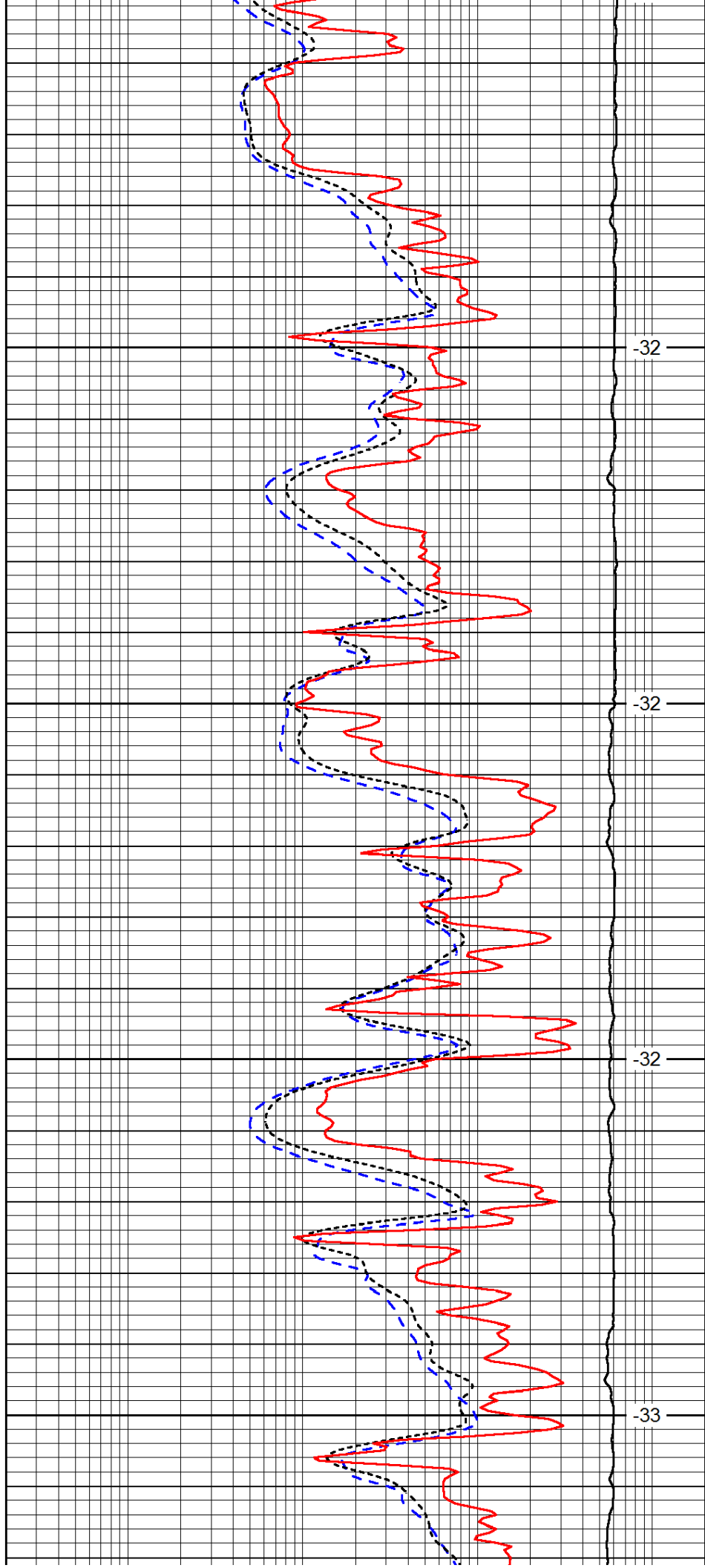


3950

4000

4050

4100

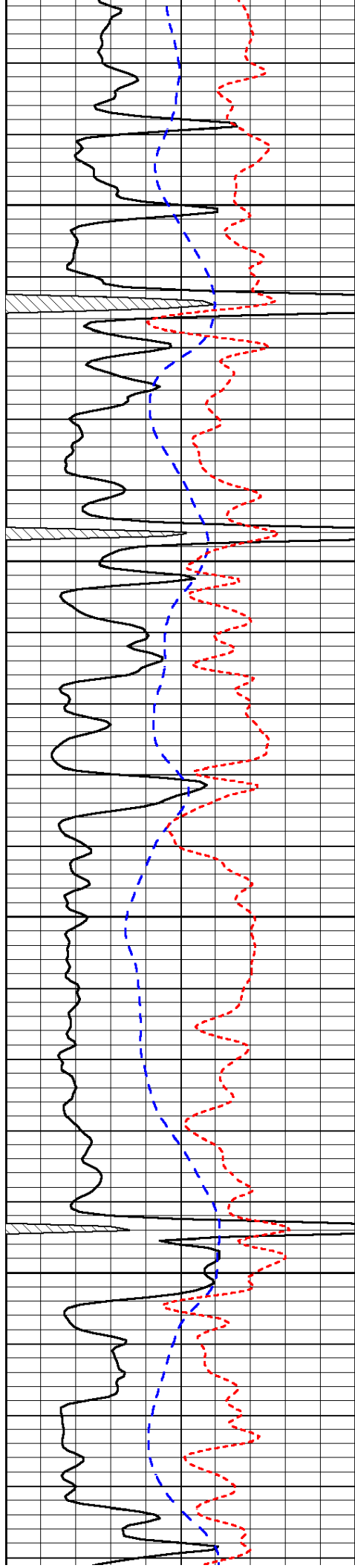


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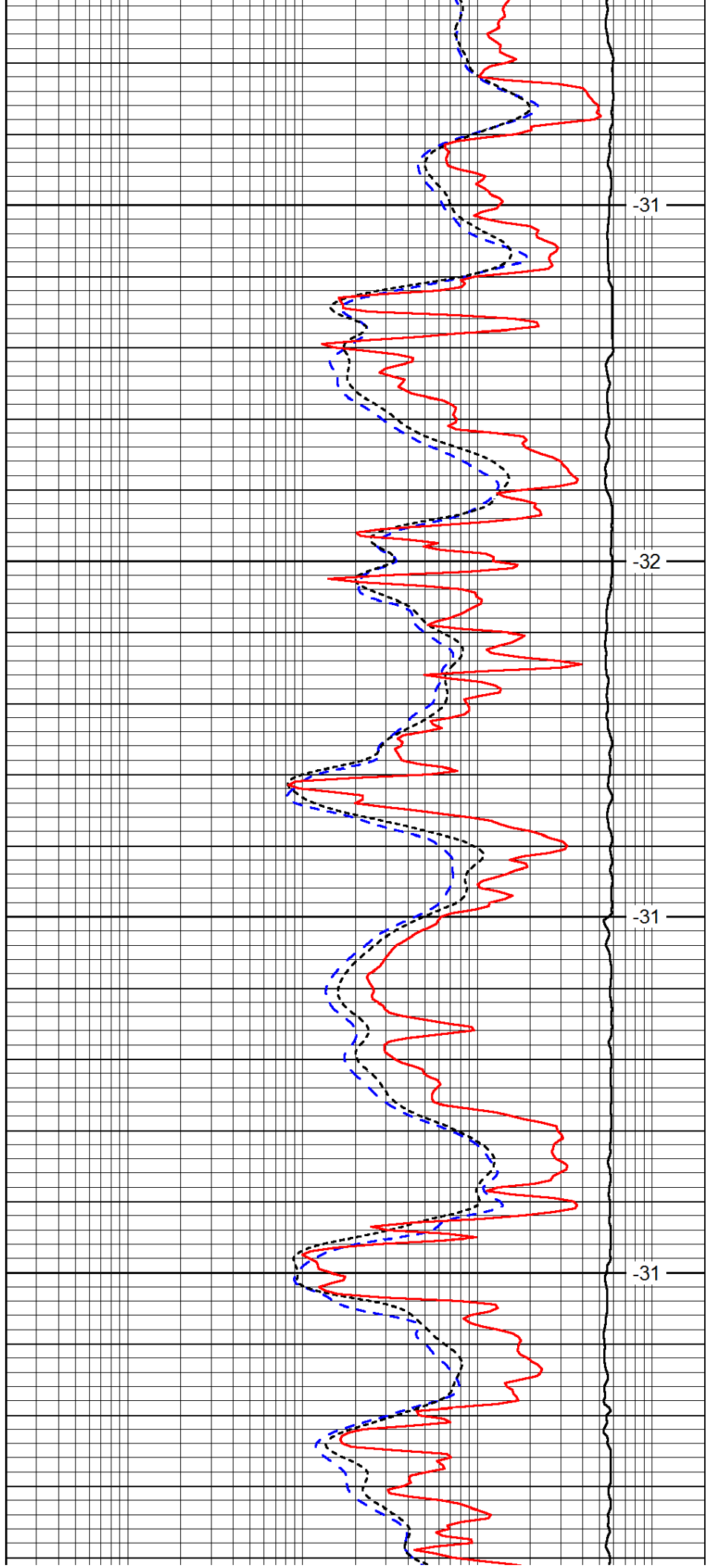


4150

4200

4250

4300

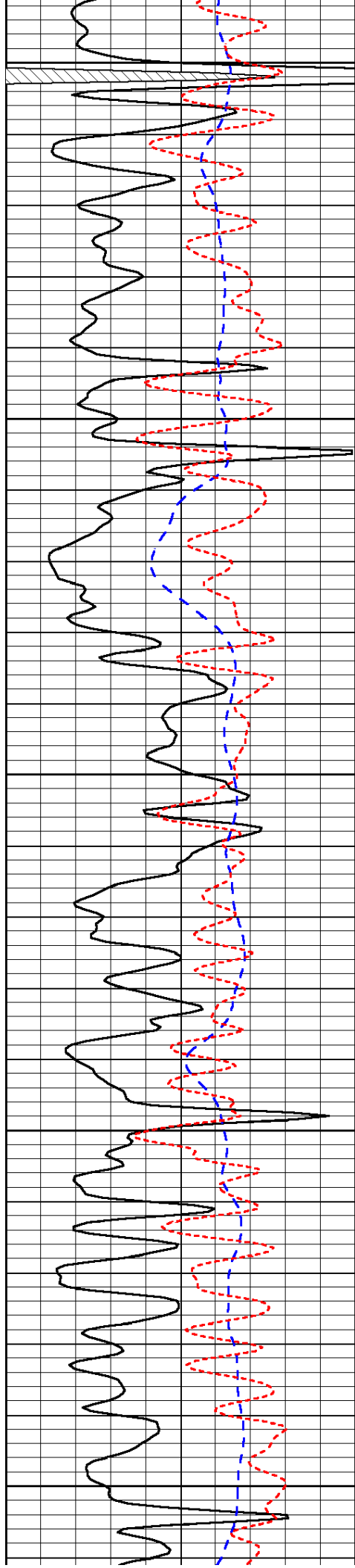


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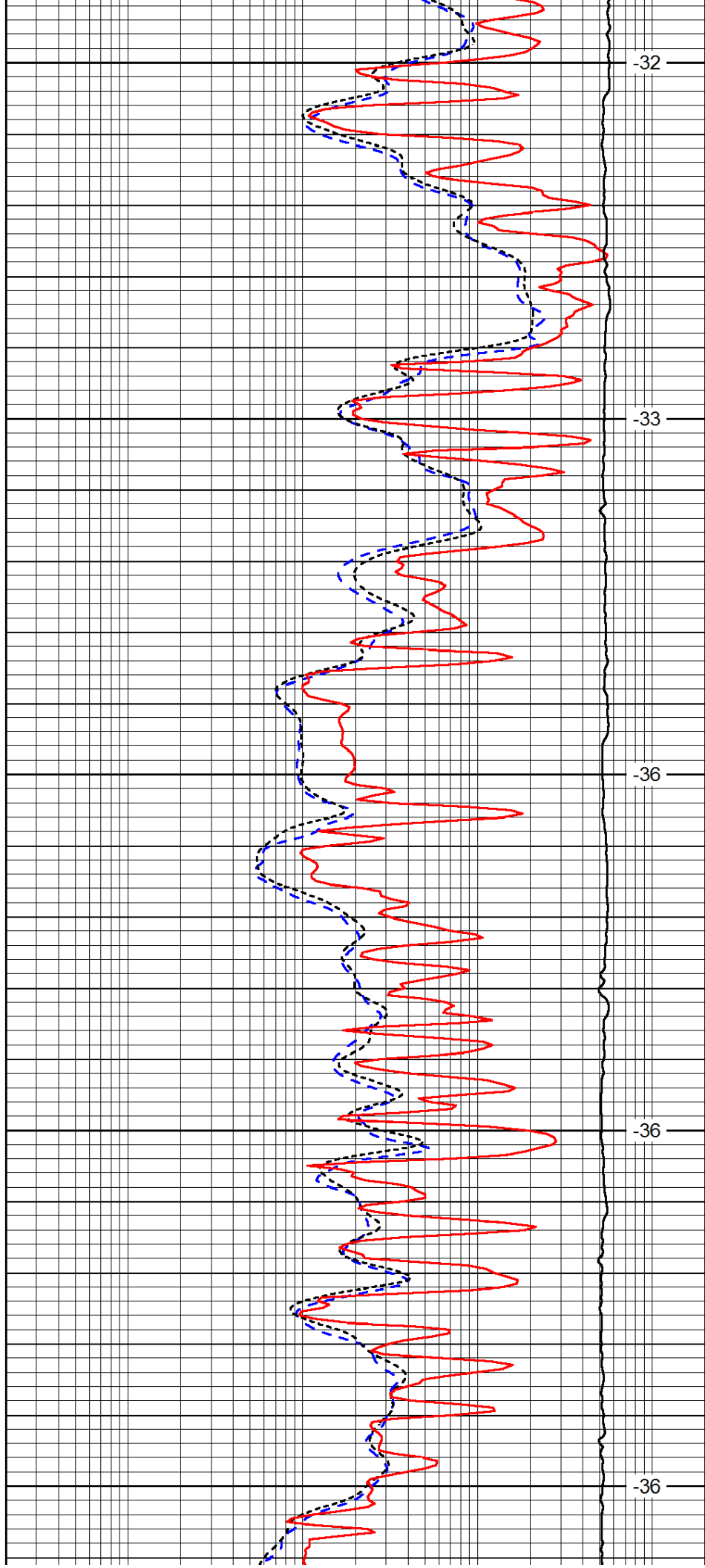
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4400

4450

4500

4550



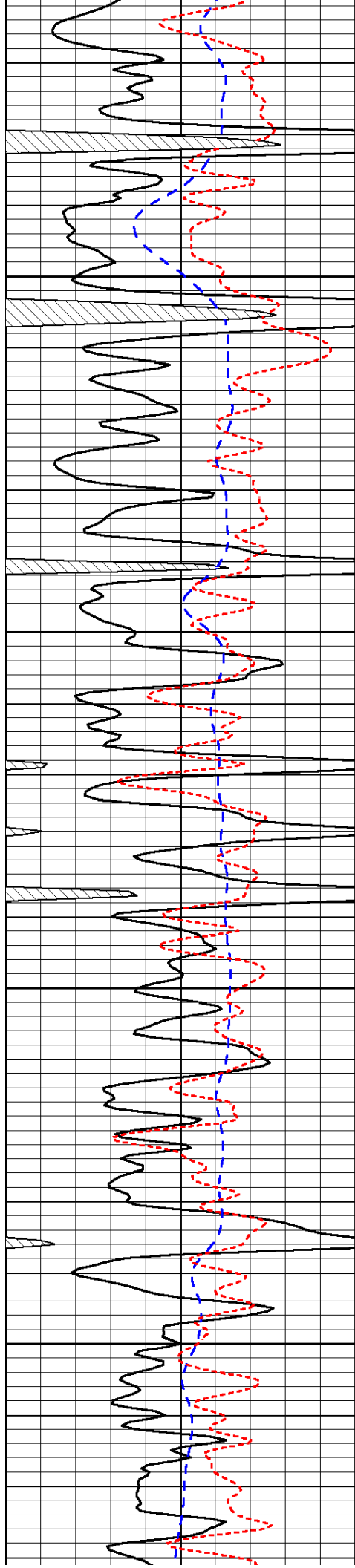
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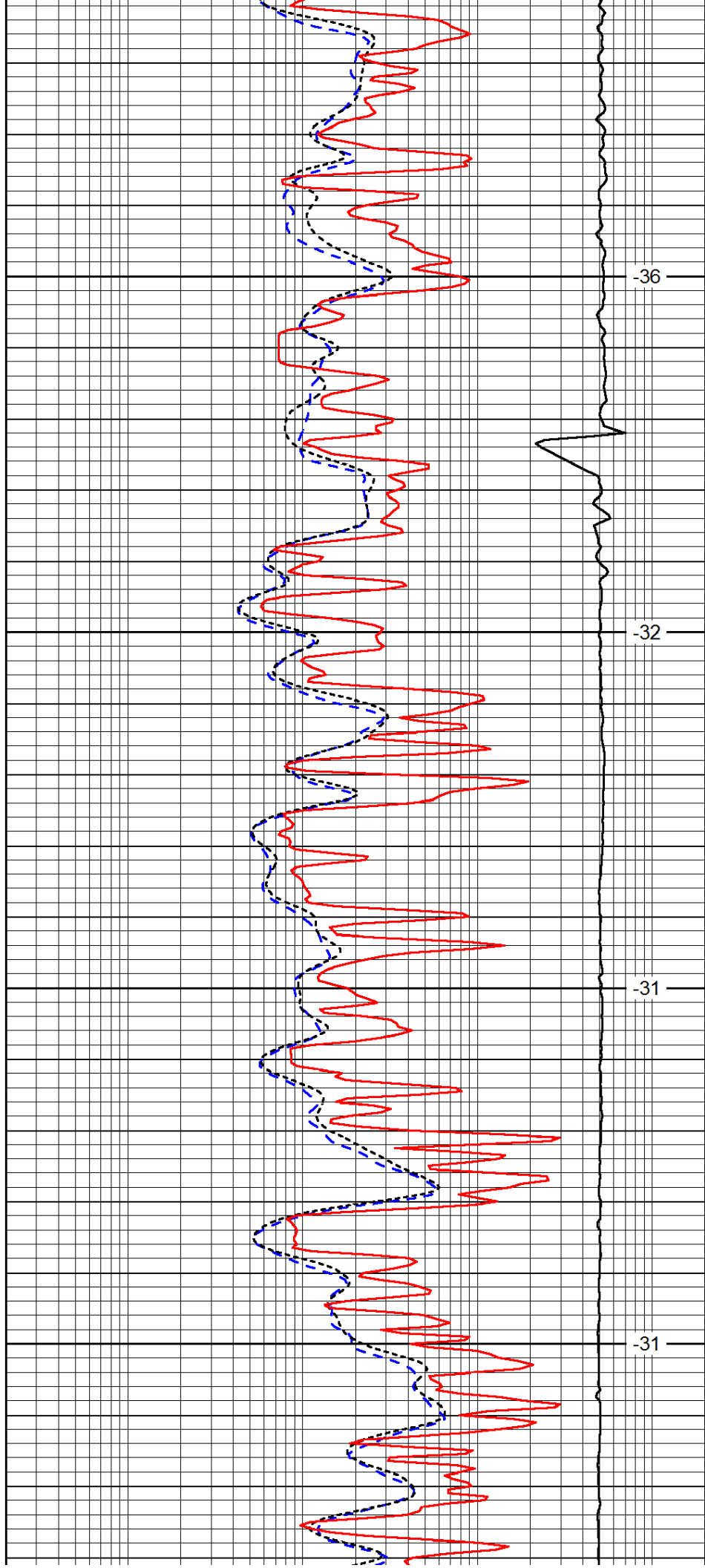


4600

4650

4700

4750

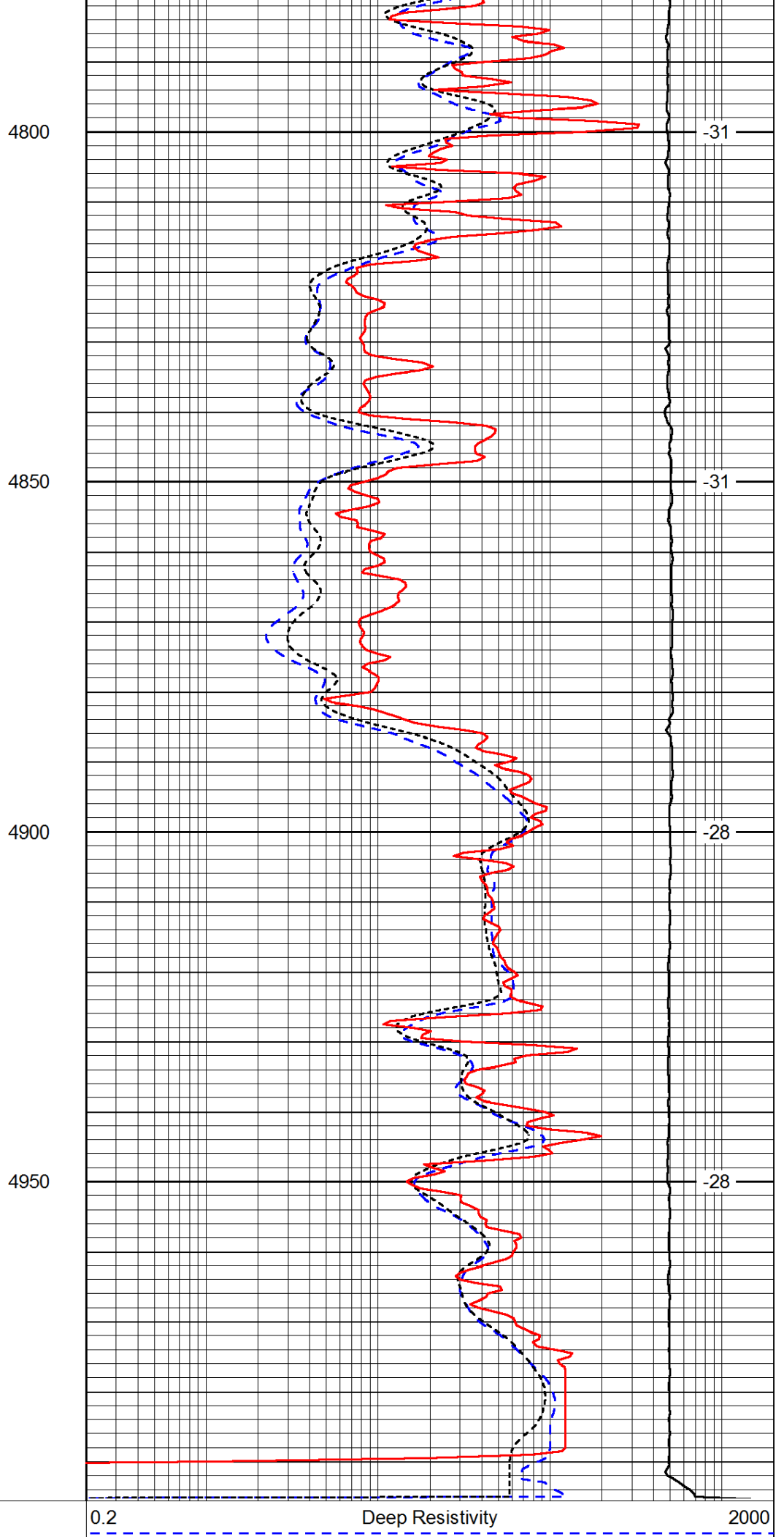
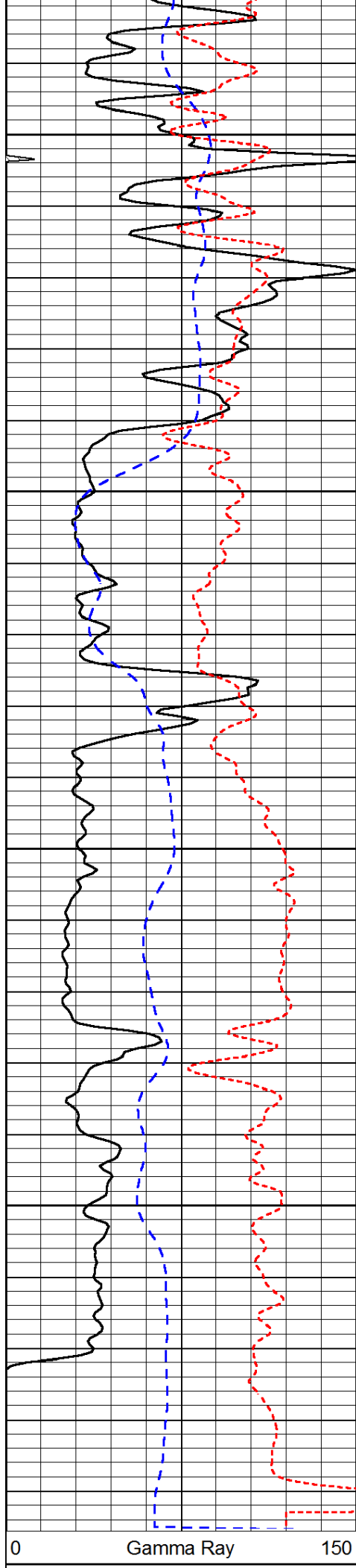


-36

-32

-31

-31



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

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