



Pioneer Energy Services

Dual Induction Log

API No.

15-109-21,383-00-00

Company Palomino Petroleum, Inc.

Well Harold Michaelis Family Trust No. 1

Field Wildcat

County Logan State Kansas

Location

SE-NW-NE-NW
605' FNL & 1710' FWL

Sec: 30 Twp: 15S Rge: 35W

Permanent Datum Ground Level Elevation 3233
Log Measured From Kelly Bushing 5 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Elevation

K.B. 3238
D.F.
G.L. 3233

Date

1/27/15

Run Number

One

Depth Driller

4925

Depth Logger

4923

Bottom Logged Interval

4922

Top Log Interval

200

Casing Driller

8.625 @ 218

Casing Logger

216

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

8.100

Density / Viscosity

9.1 57

pH / Fluid Loss

10.0 9.6

Source of Sample

Flowline

Rm @ Meas. Temp

.18 @ 75

Rmf @ Meas. Temp

.14 @ 75

Rmc @ Meas. Temp

.24 @ 75

Source of Rmf / Rmc

Charts

Rm @ BHT

.11 @ 125

Operating Rig Time

3 Hours

Max Rec. Temp. F

125

Equipment Number

15

Location

Hays

Recorded By

J. Henrickson

Witnessed By

Andrew Stenzel

<<< 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

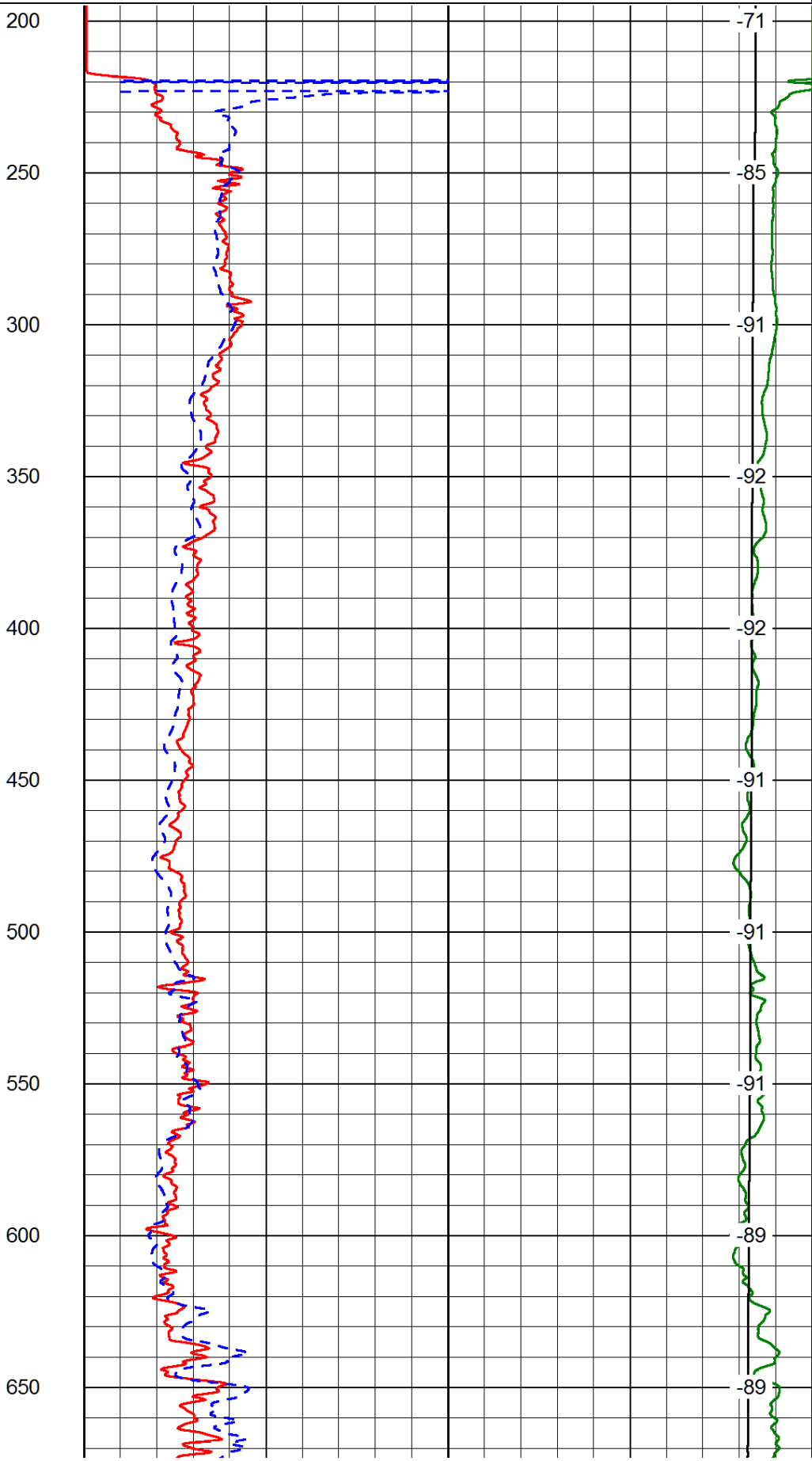
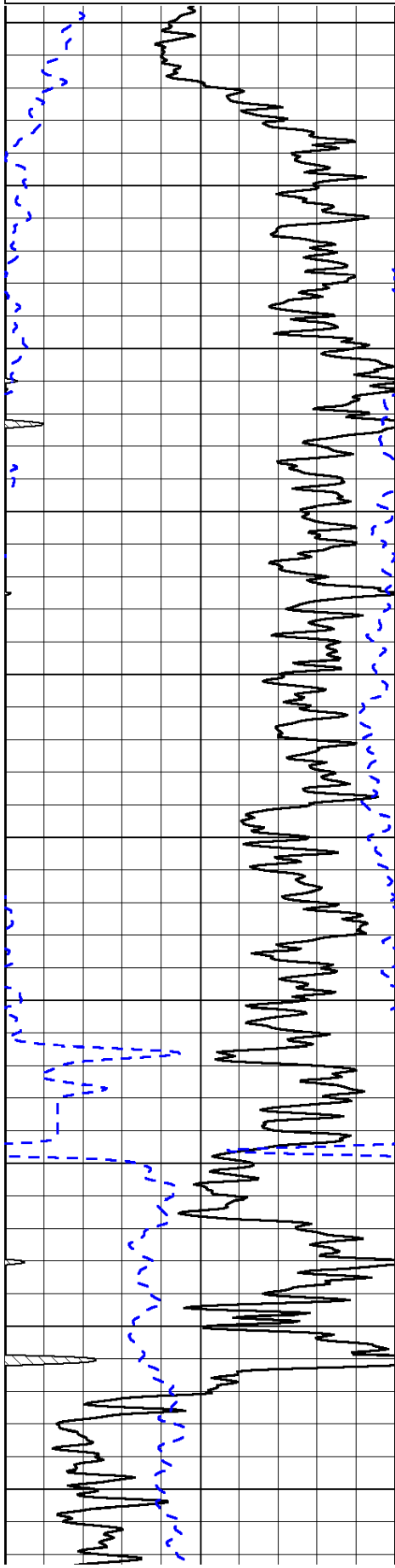
Thank you for using Log-Tech, Inc.
(785) 625-3858

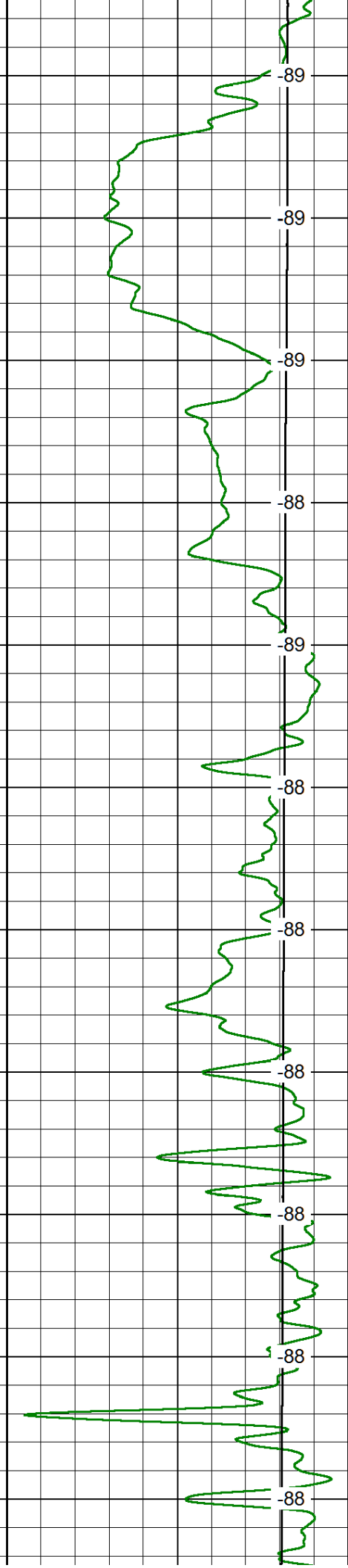
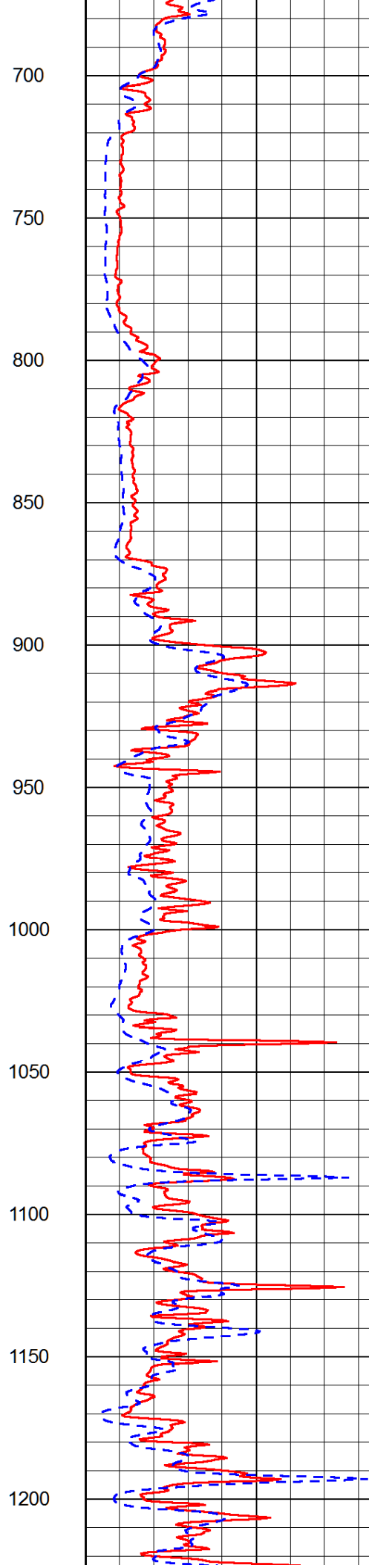
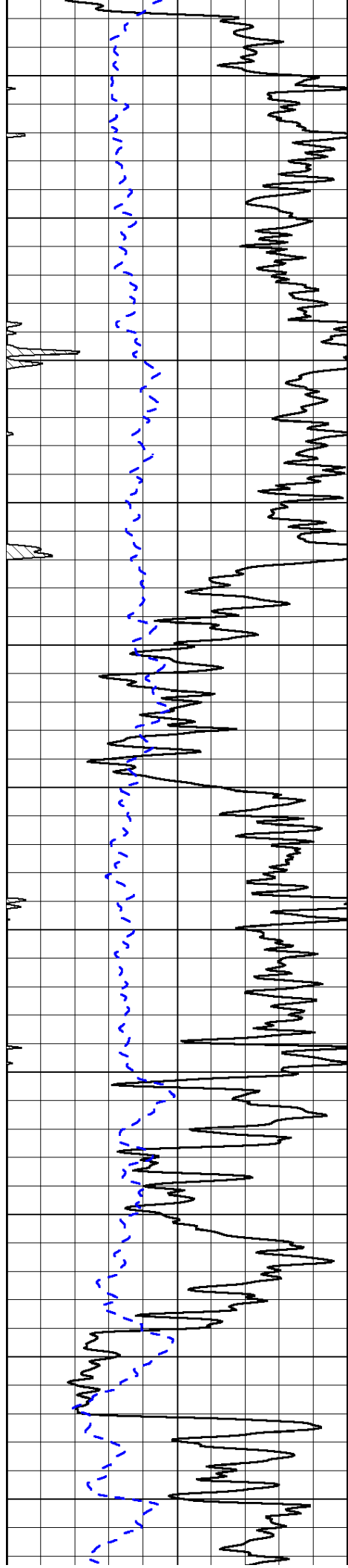
Leoti Kansas
North to Dakota Rd, 4 East, 1/2 South, East Into

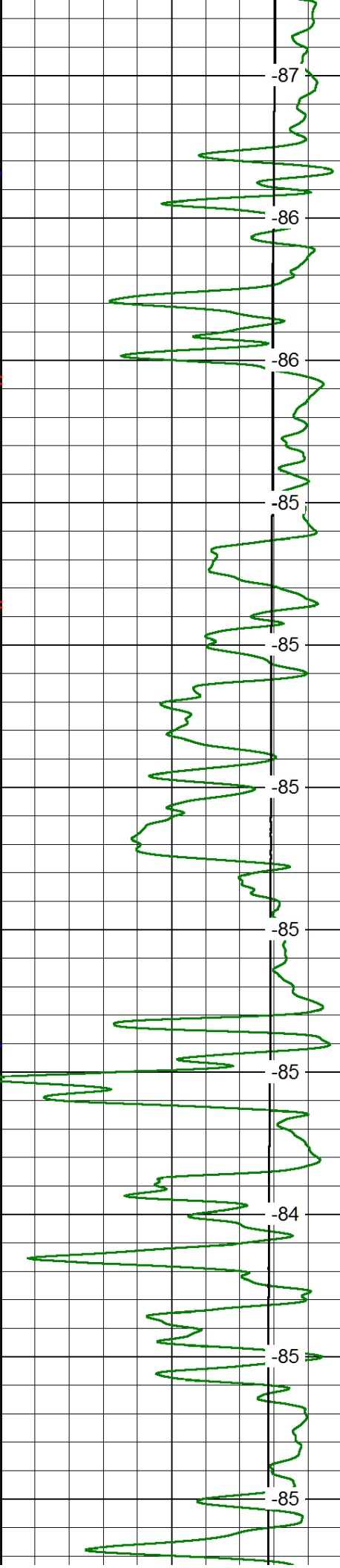
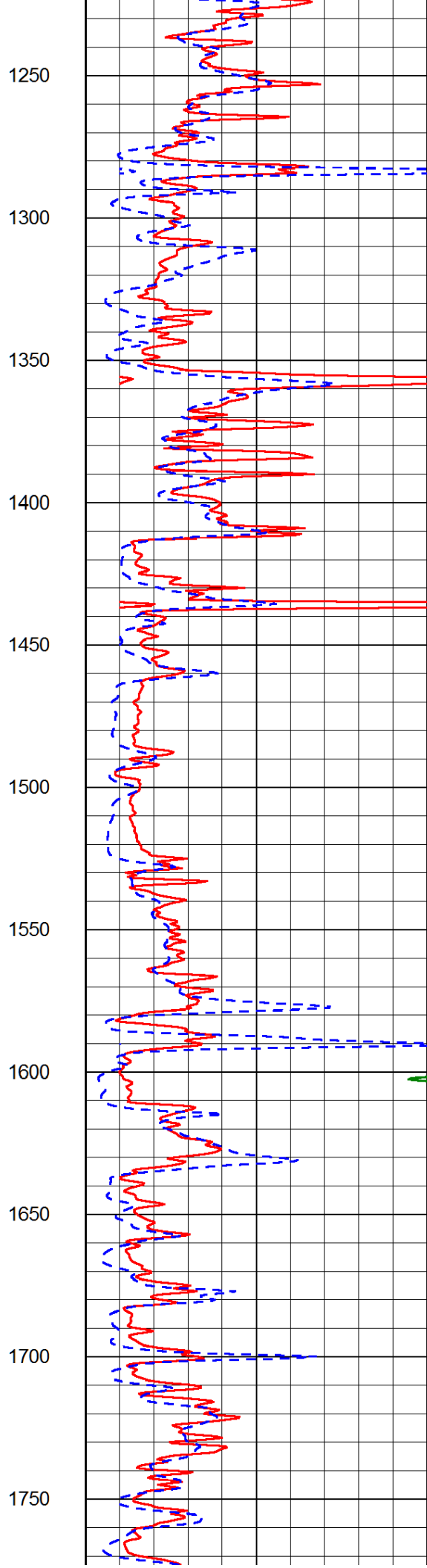
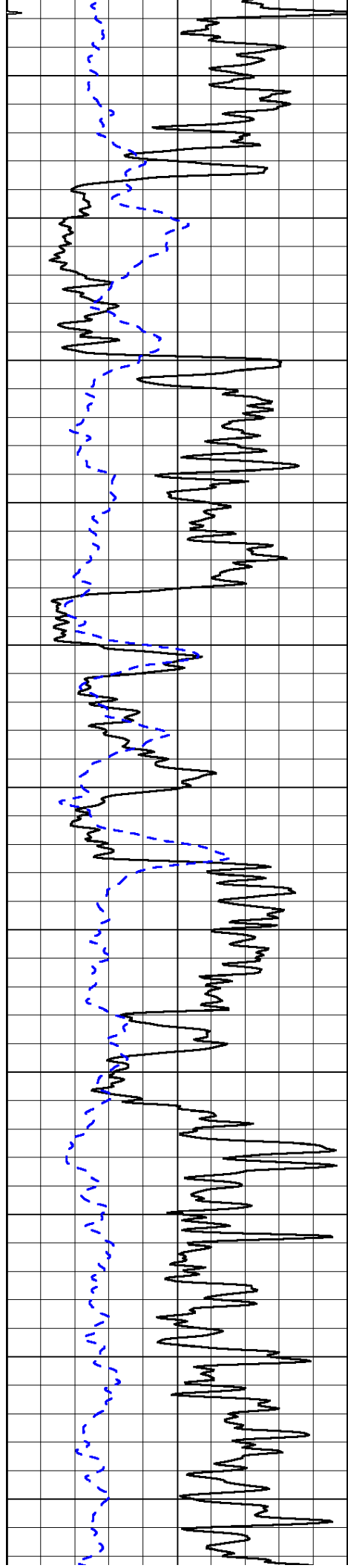
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Dataset Creation: Tue Jan 27 20:43:37 2015
Charted by: Depth in Feet scaled 1:600

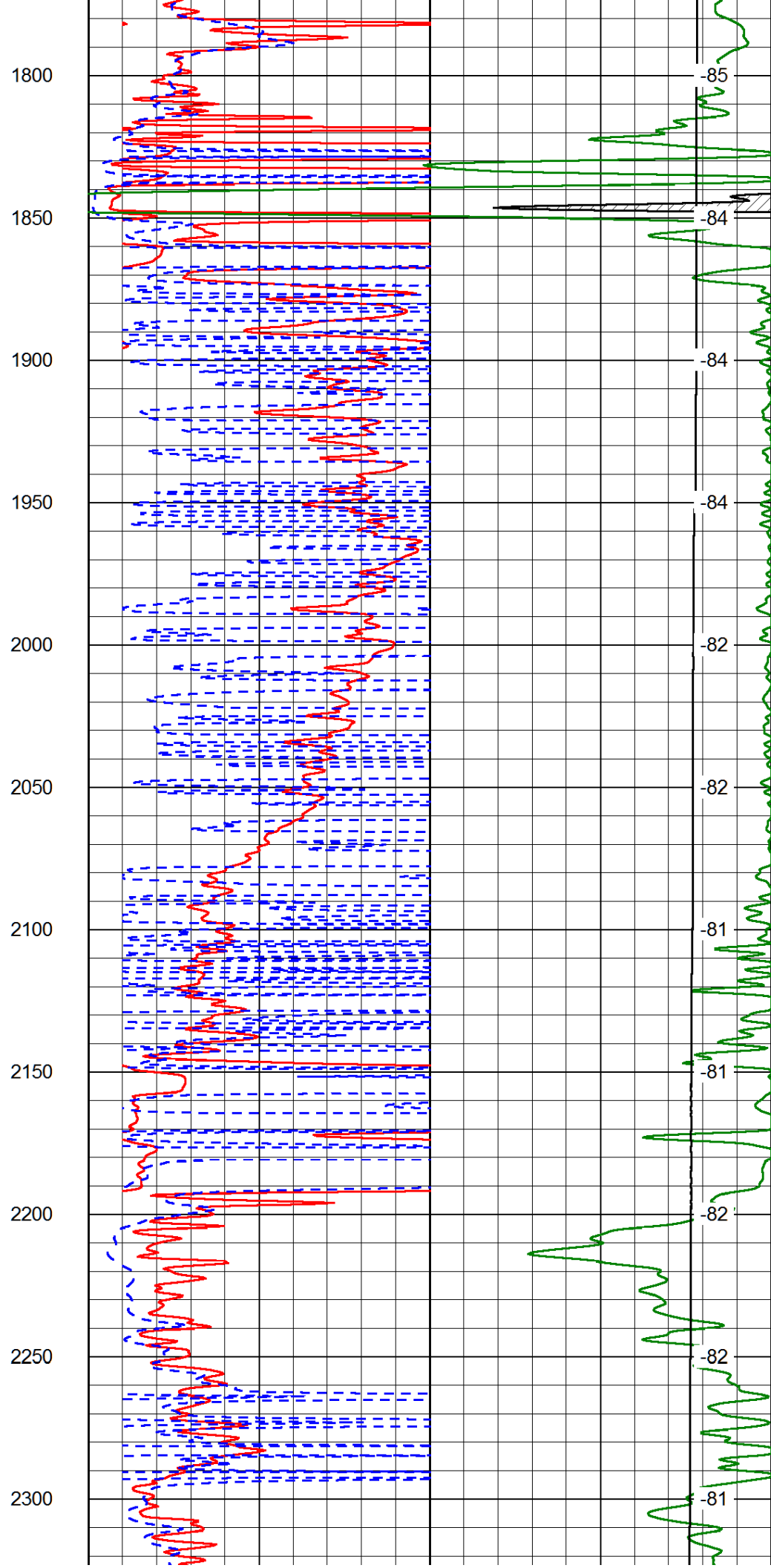
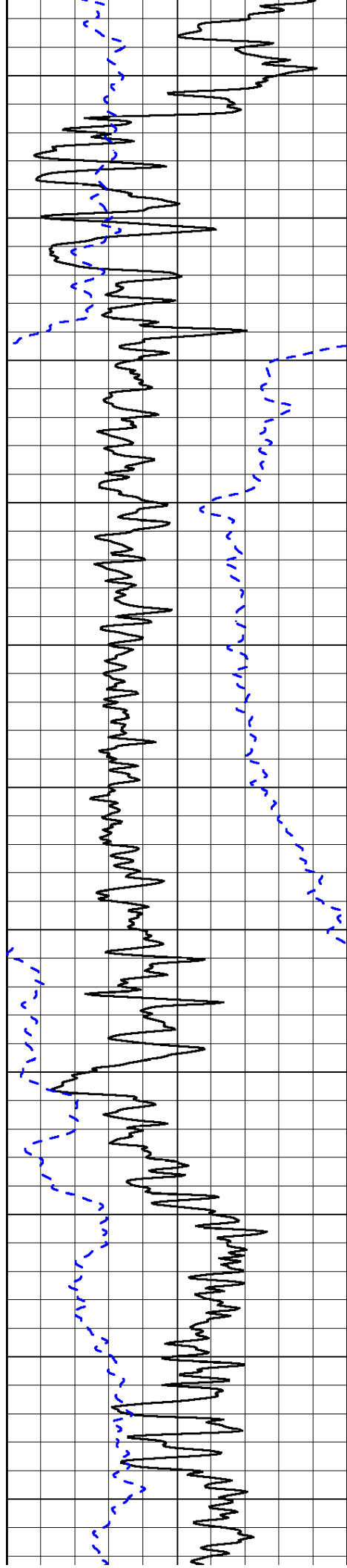
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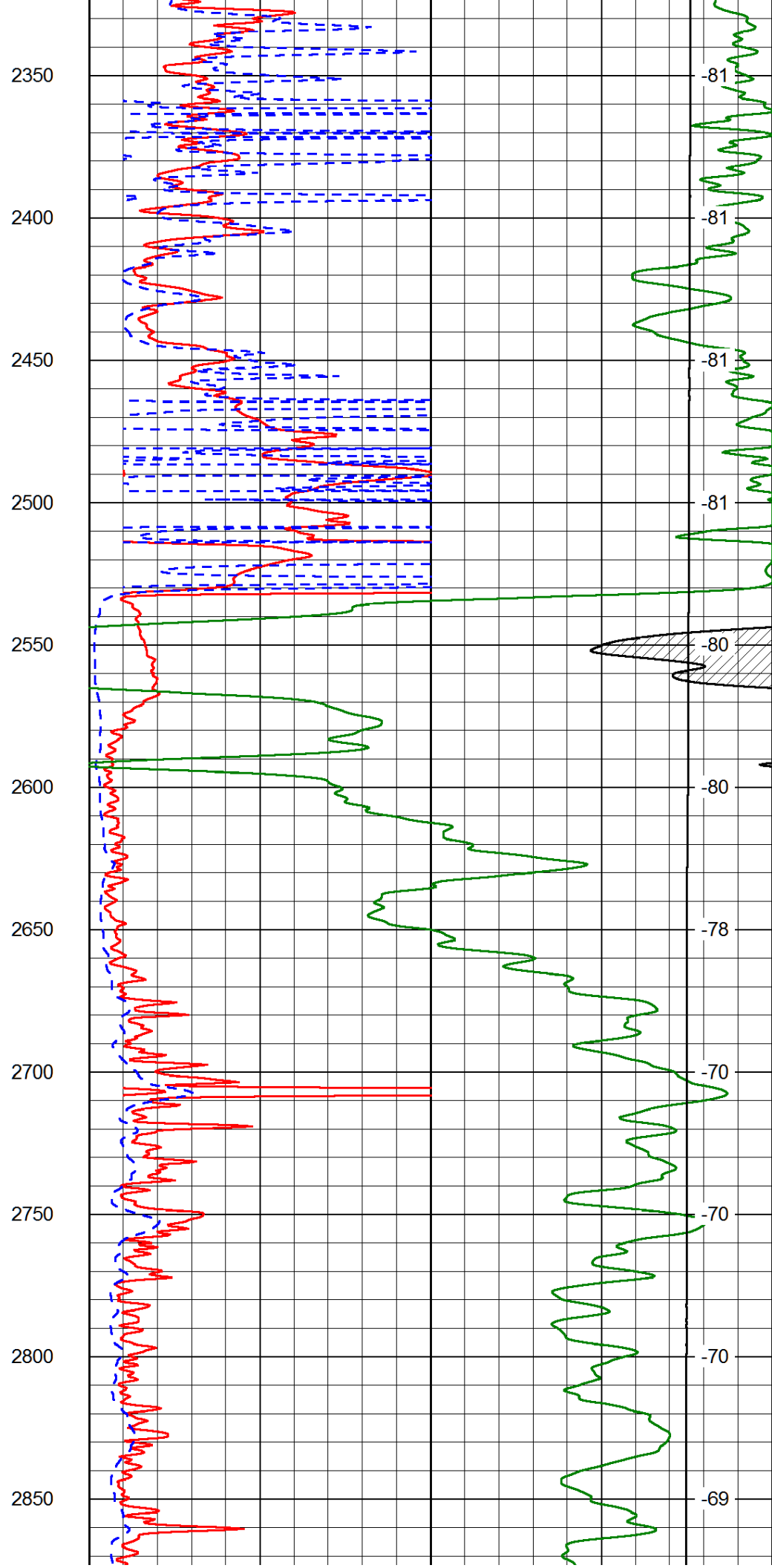
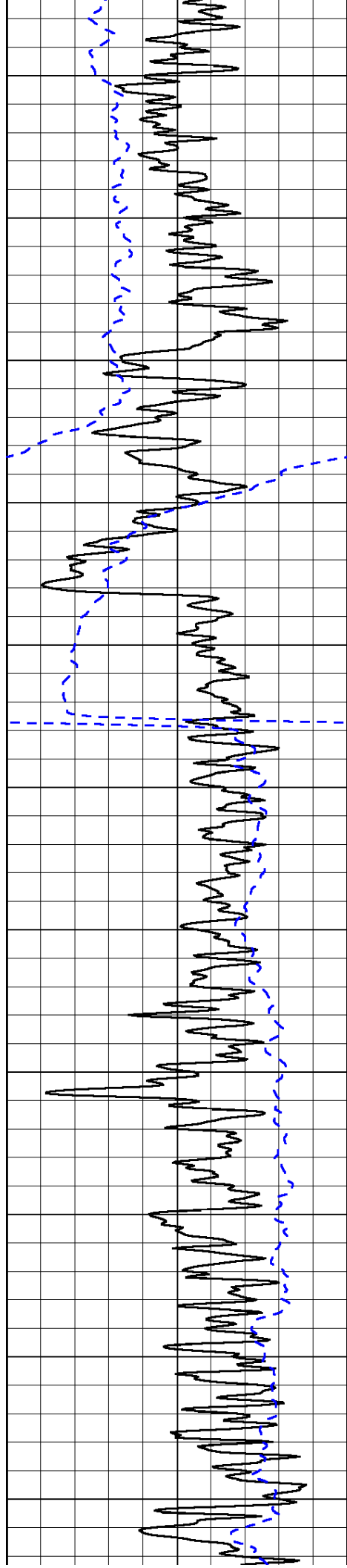
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0	Deep Resistivity	50
1000	Conductivity	0
15000	Line Tension	0
50	Shallow Resistivity	500
50	Deep Resistivity	500

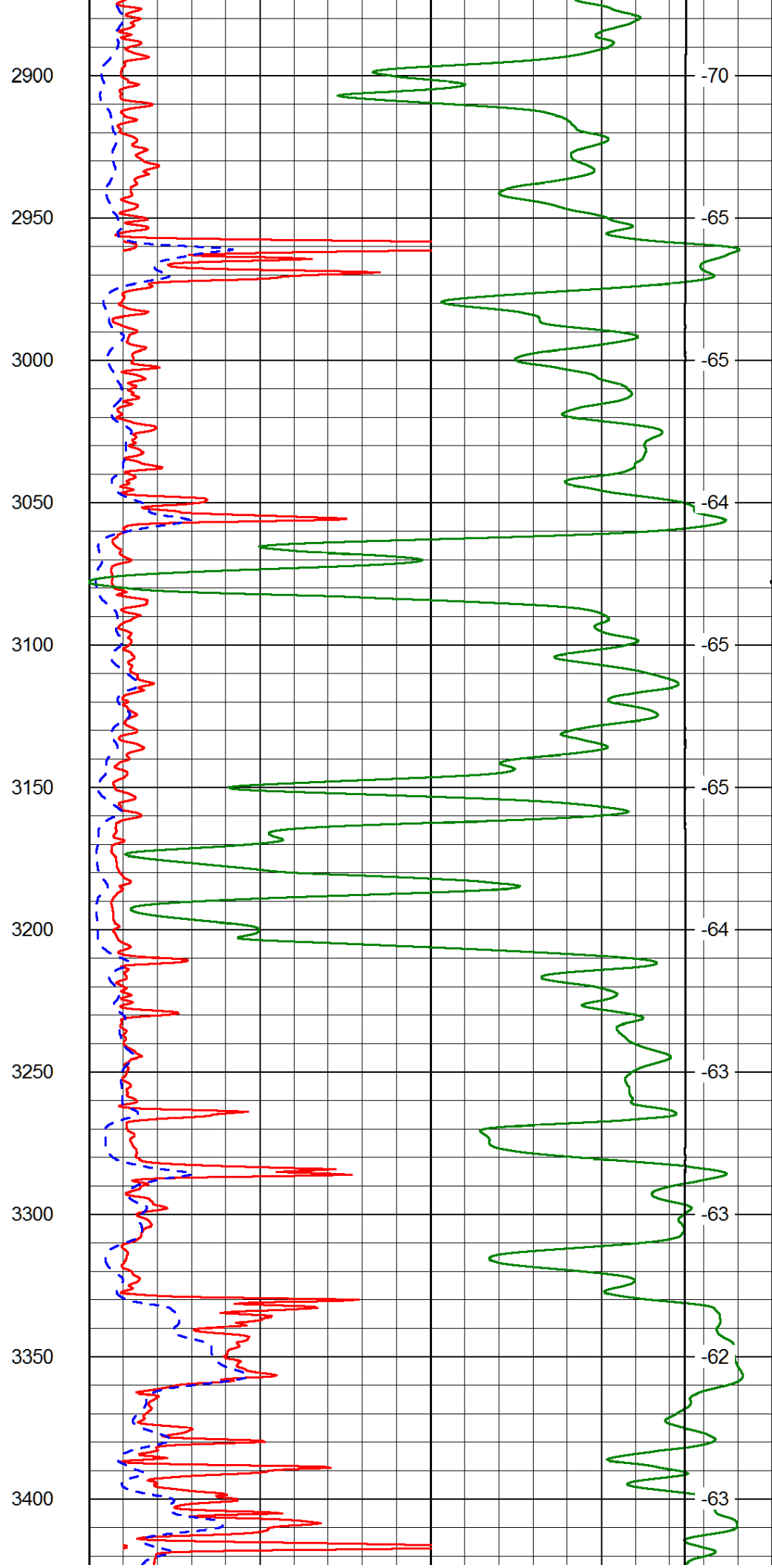
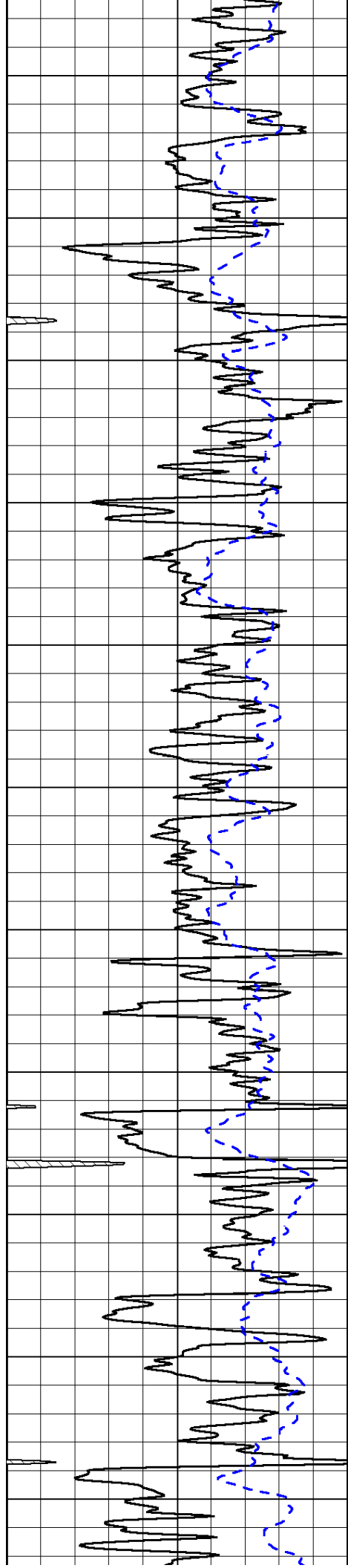


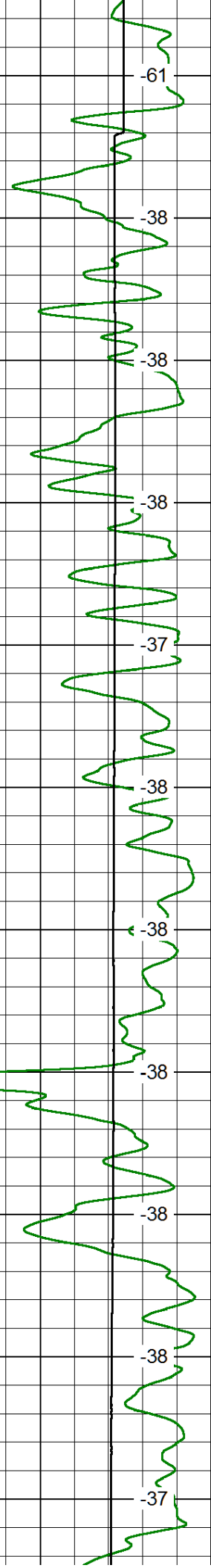
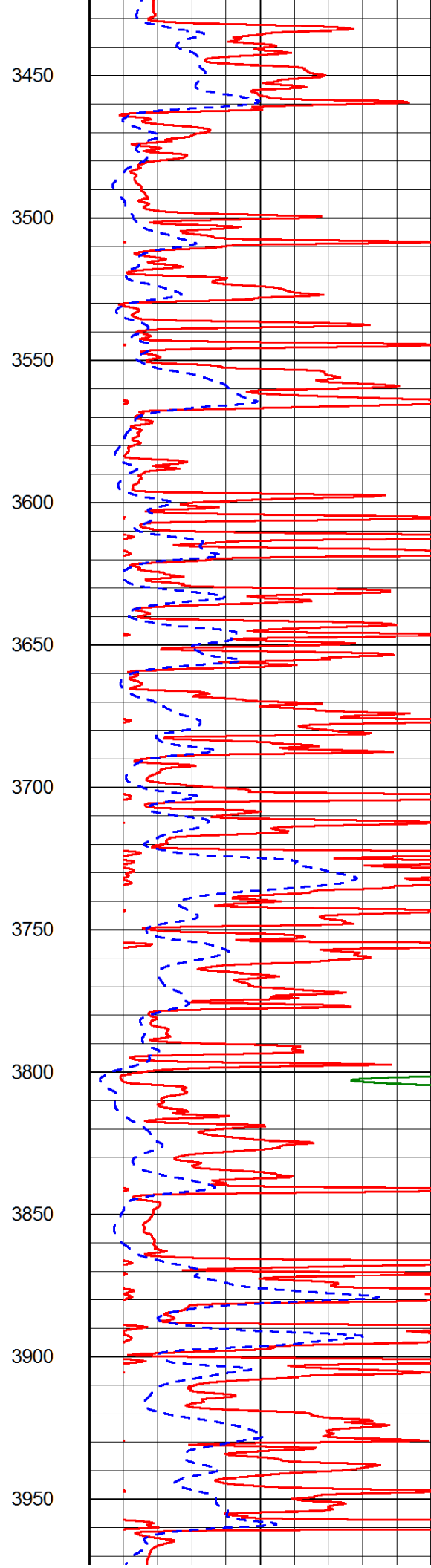
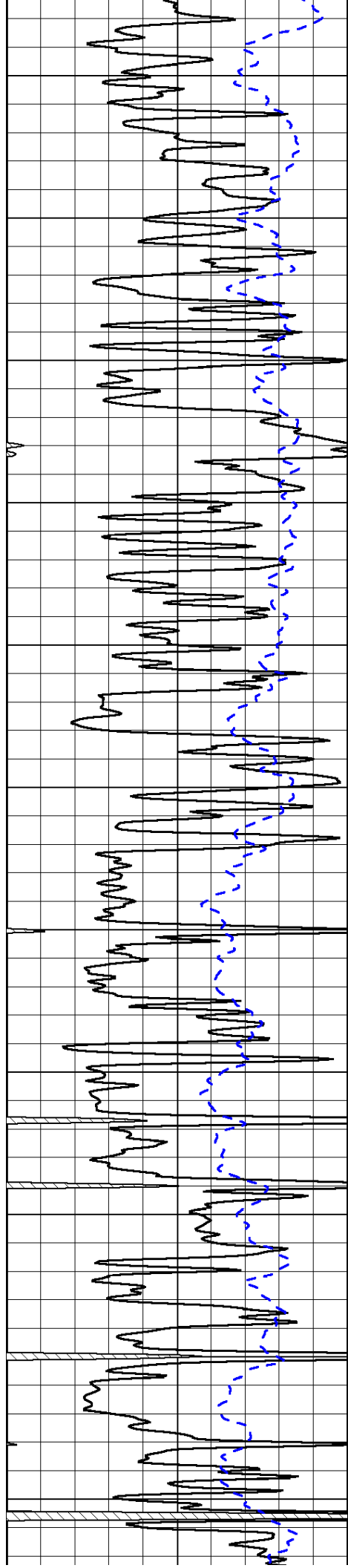


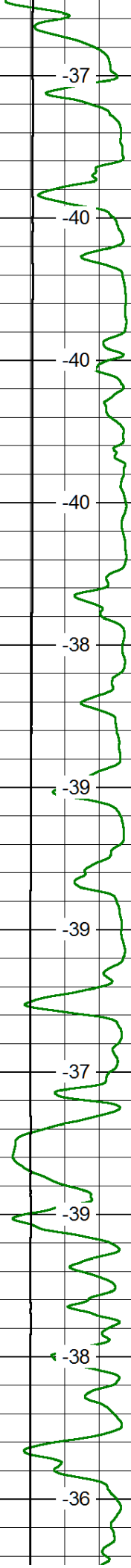
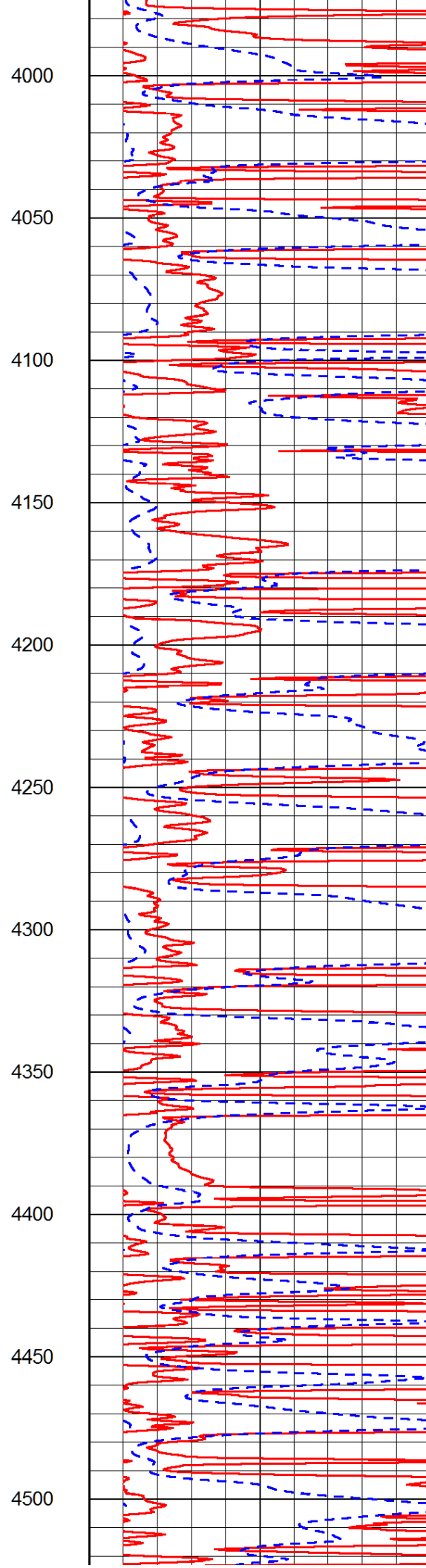
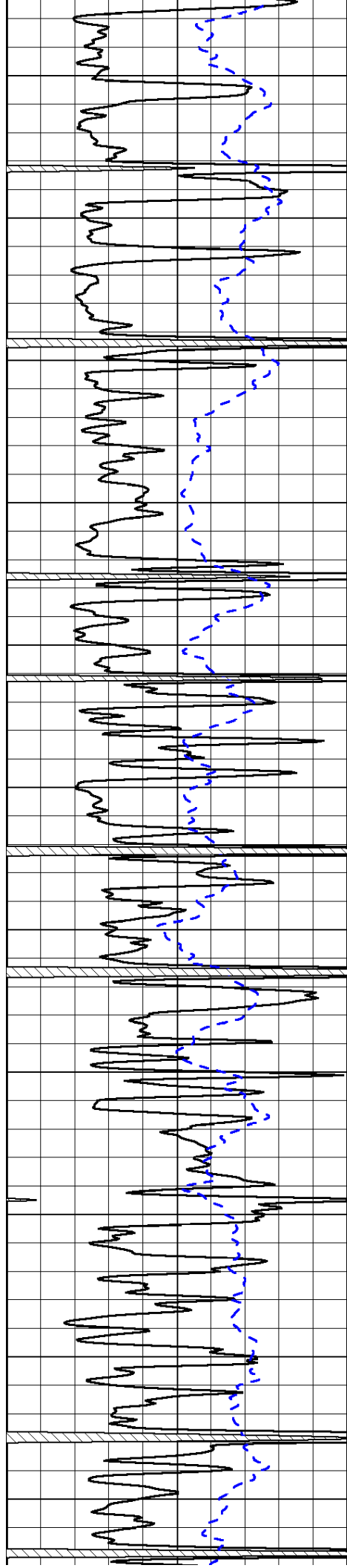


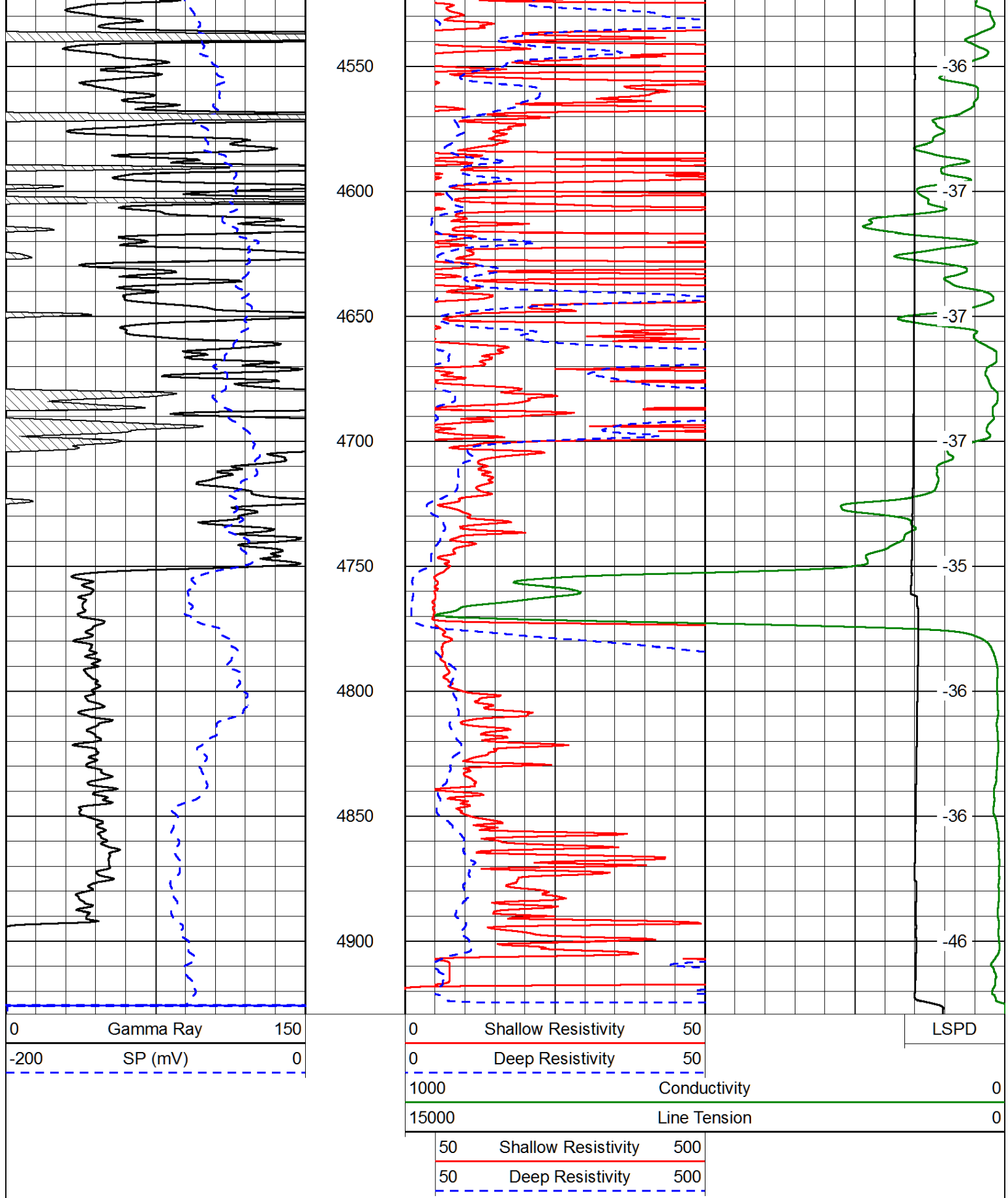






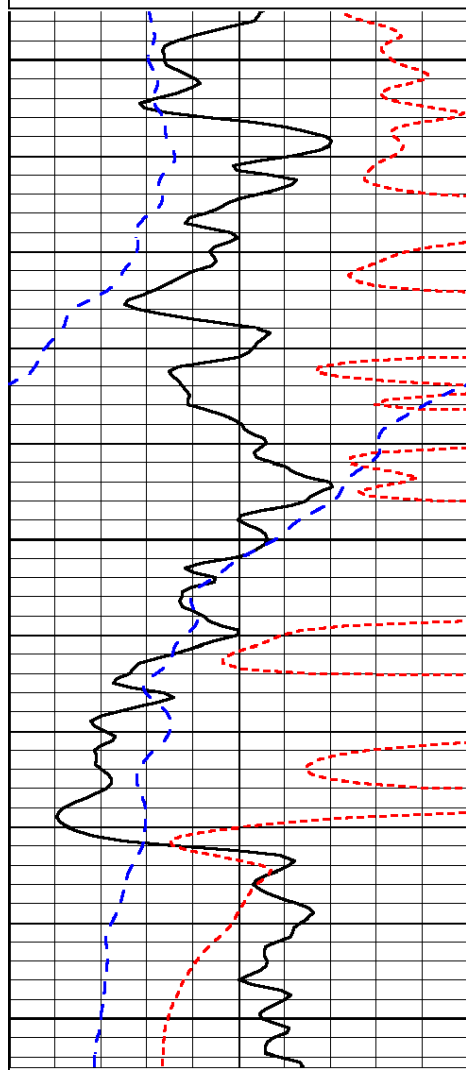






Database File: palomino_haroldmichaelisfamilytrust_1hd.db
Dataset Pathname: DIL/palall
Presentation Format: dil
Dataset Creation: Tue Jan 27 20:43:37 2015
Charted by: Depth in Feet scaled 1:240

Gamma Ray		100
-160	RxoRt	40
-200	SP (mV)	0



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

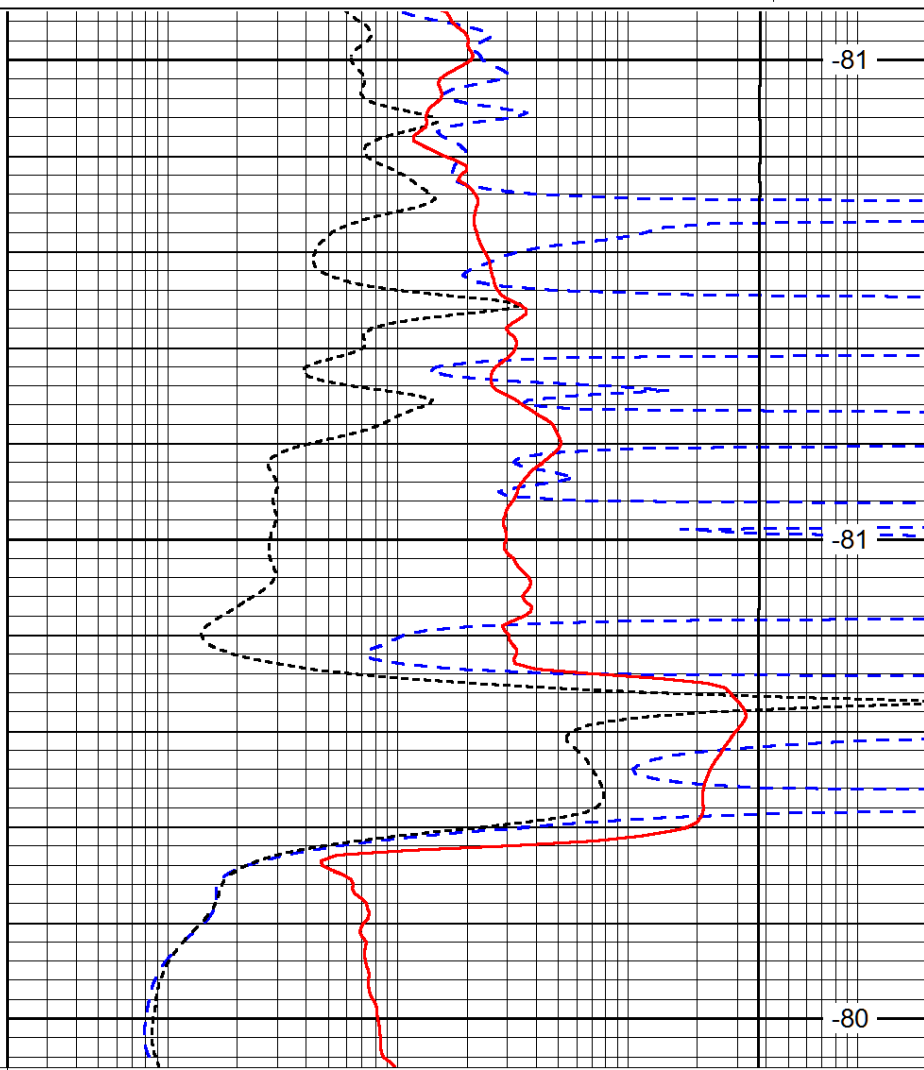
2450

2500

2550

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

LSPD



-81

-81

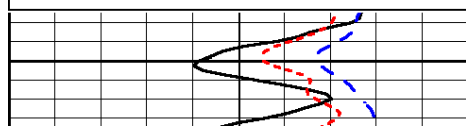
-80

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

LSPD

Database File: palomino_haroldmichaelisfamilytrust_1hd.db
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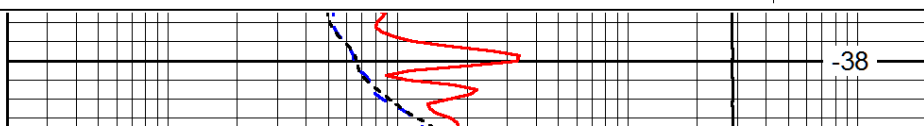
0	Gamma Ray	150
-160	RxoRt	40
-200	SP (mV)	0



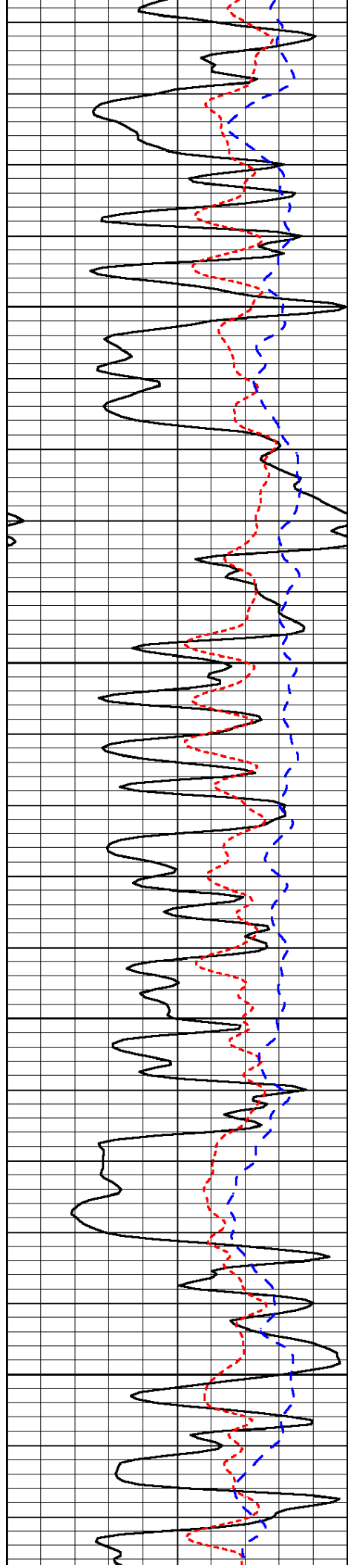
3500

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

LSPD



-38

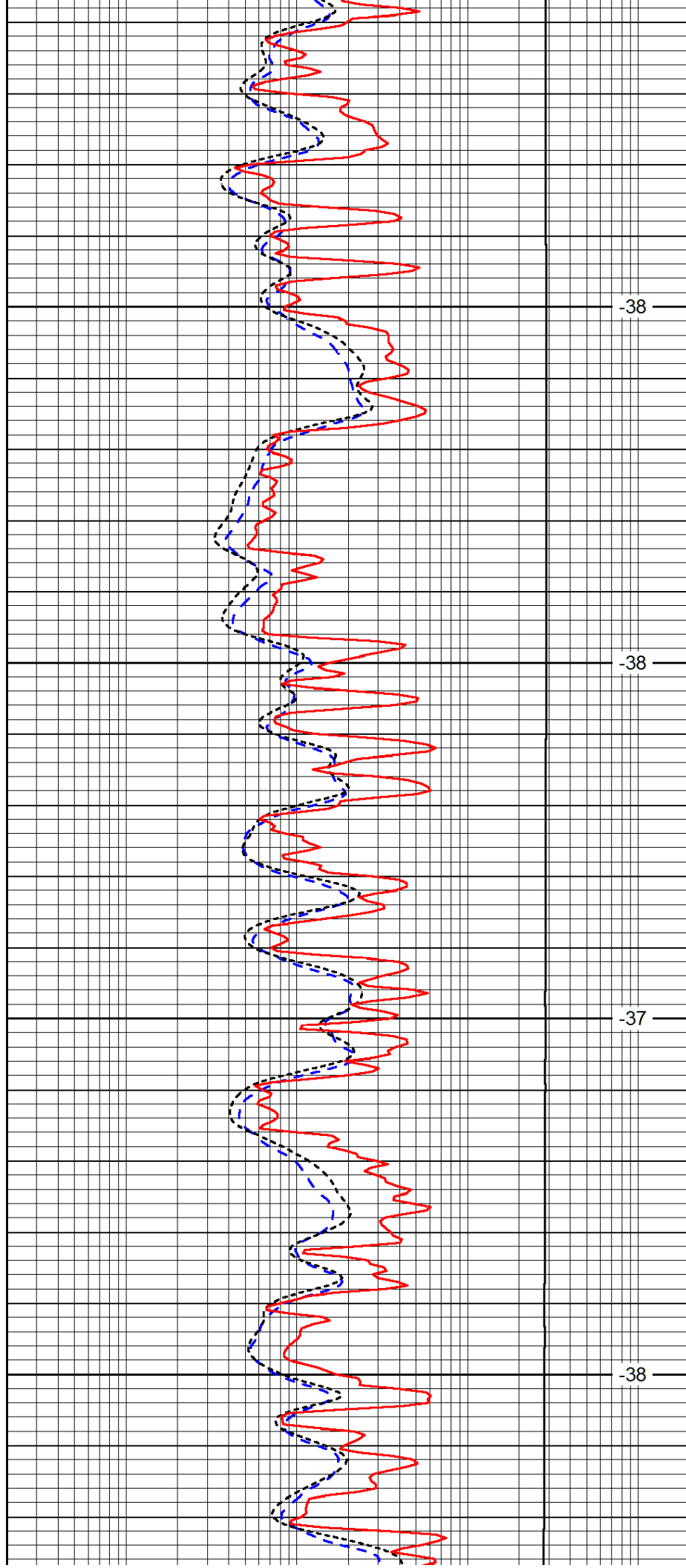


3550

3600

3650

3700

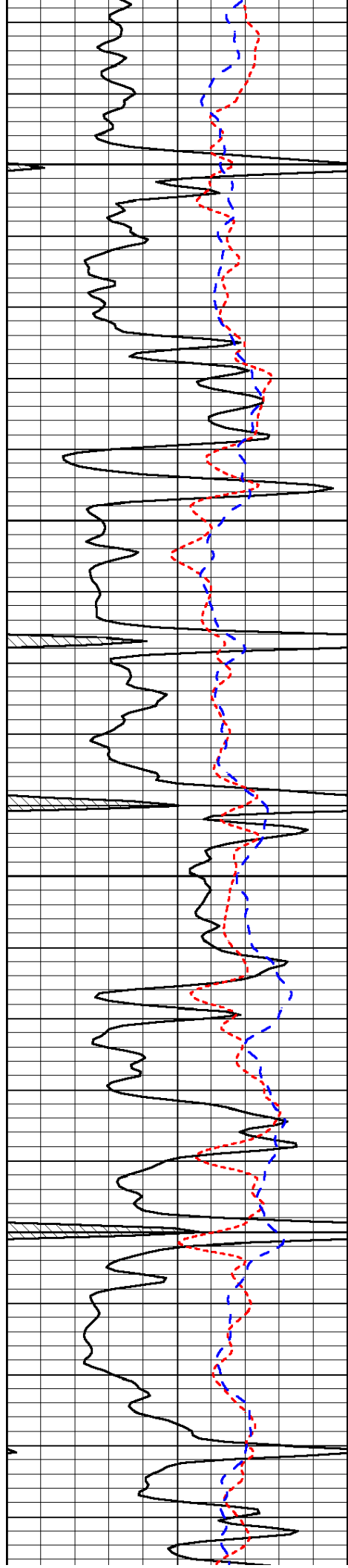


-38

-38

-37

-38

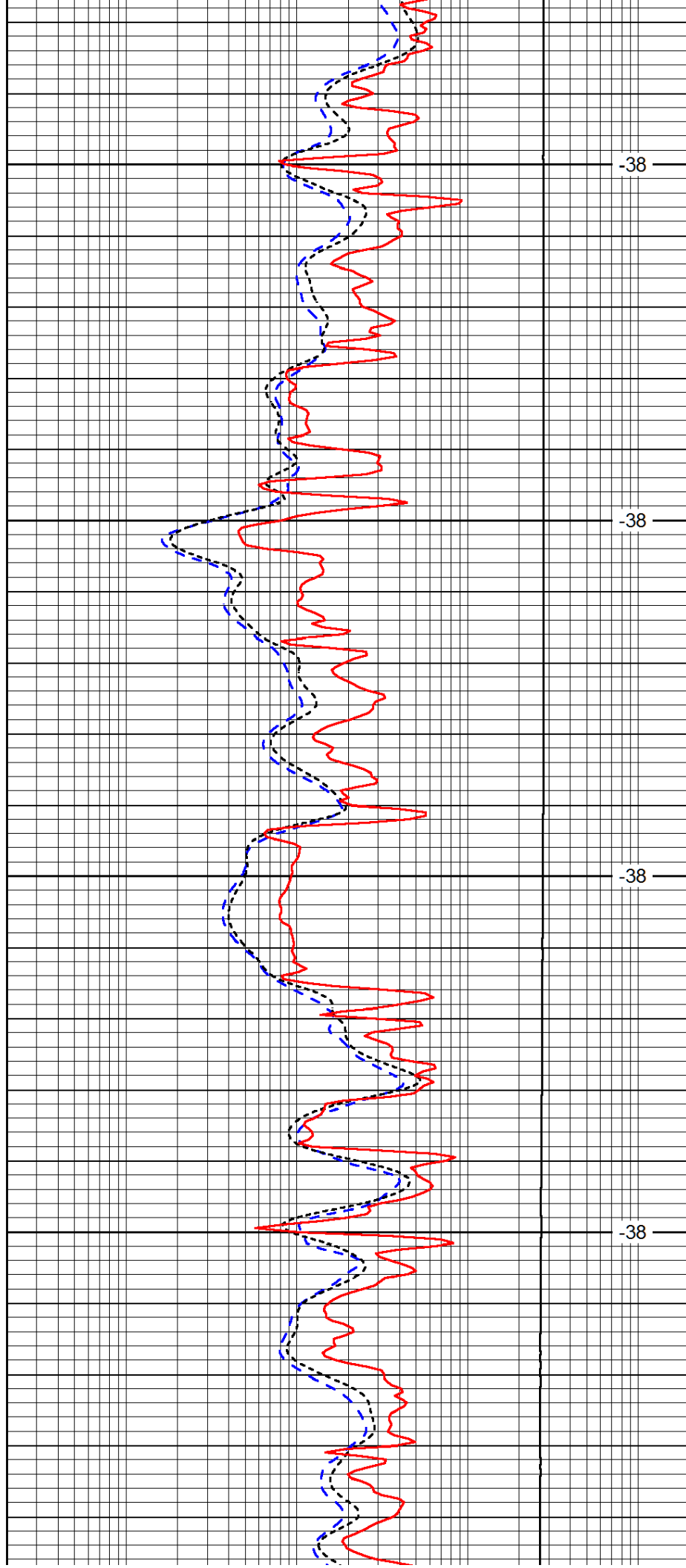


3750

3800

3850

3900

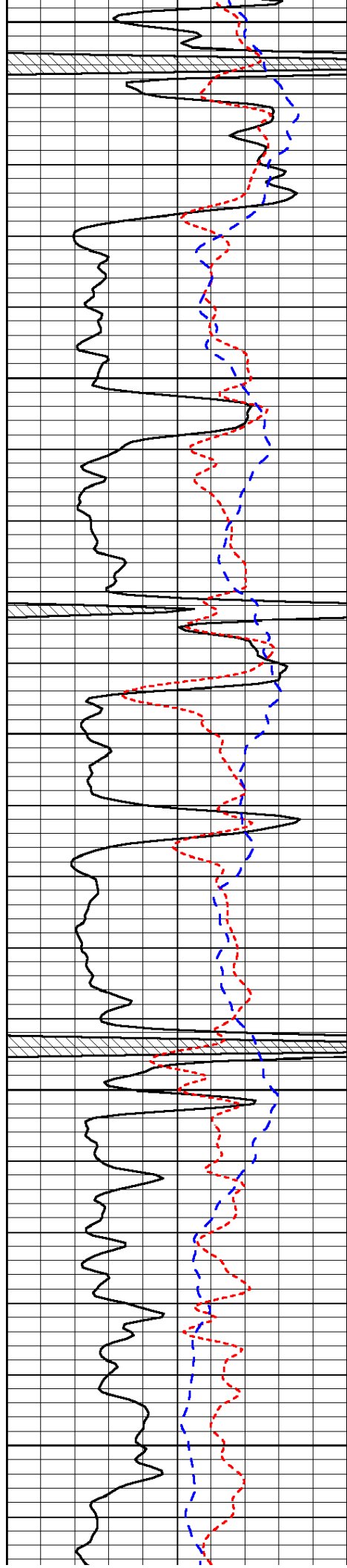


-38

-38

-38

-38



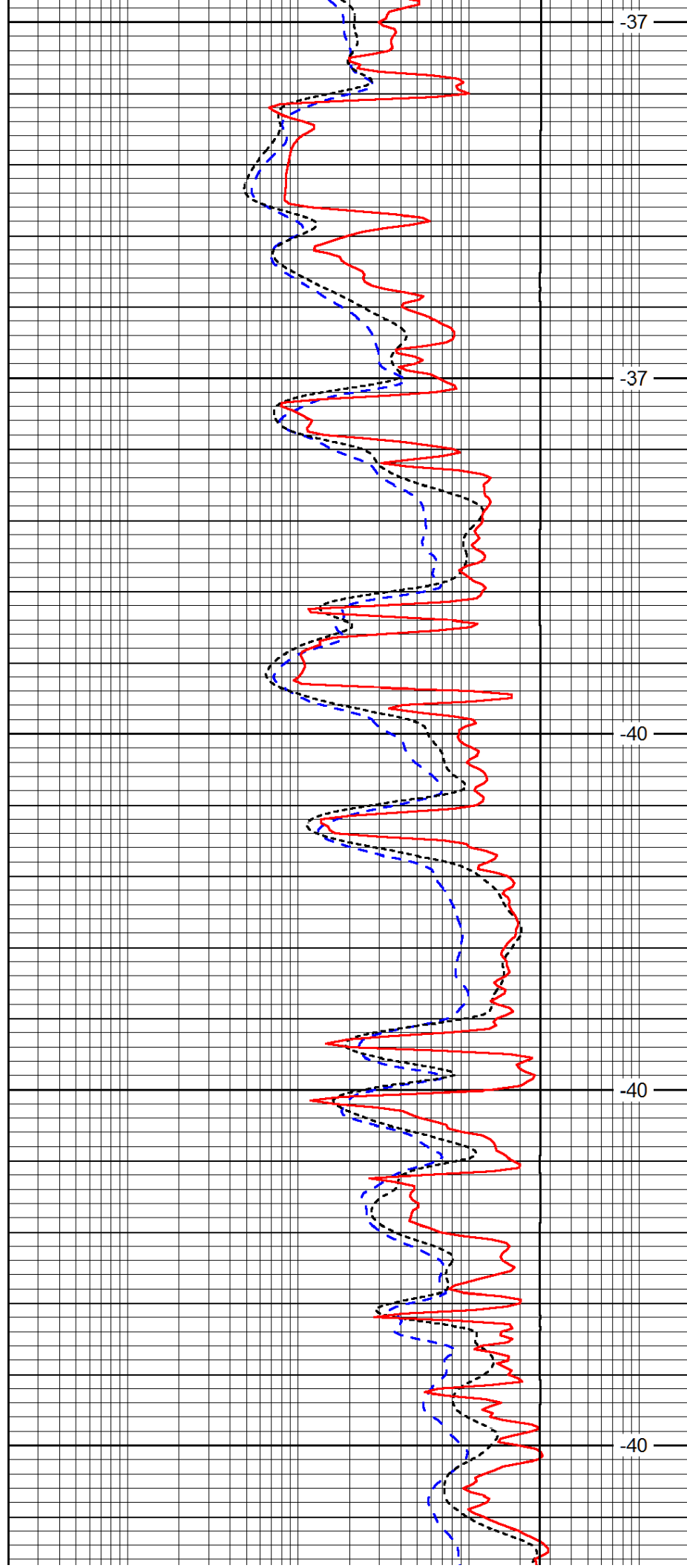
3950

4000

4050

4100

4150



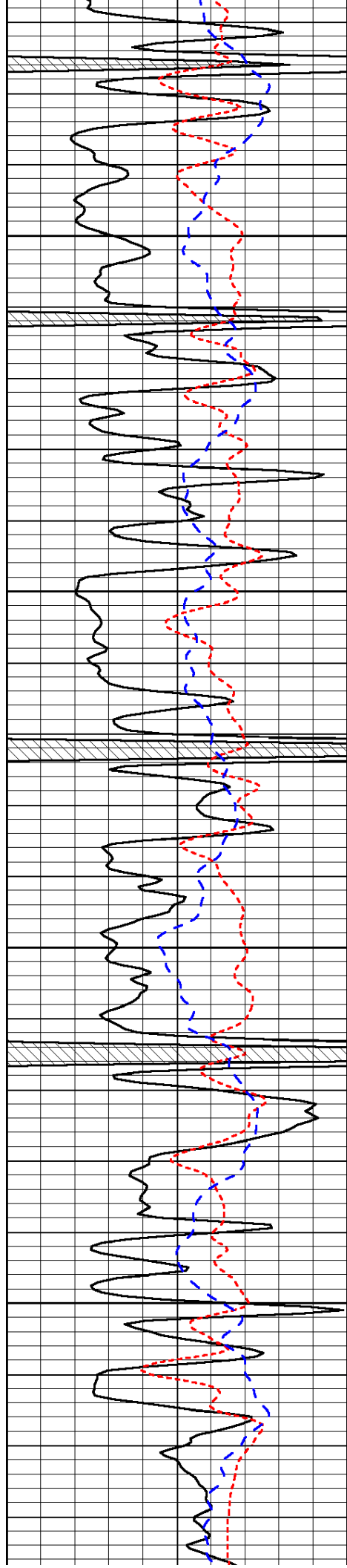
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-37

-40

-40

-40

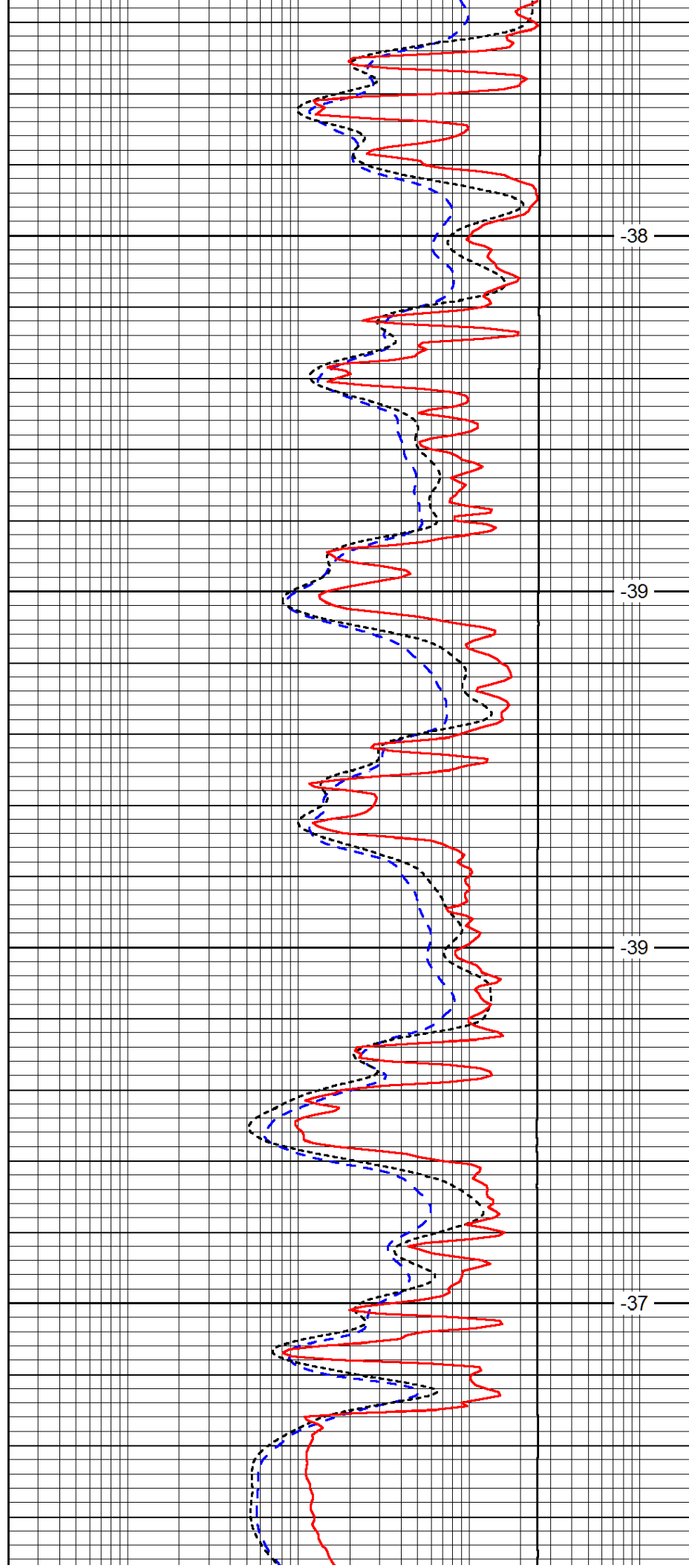


4200

4250

4300

4350

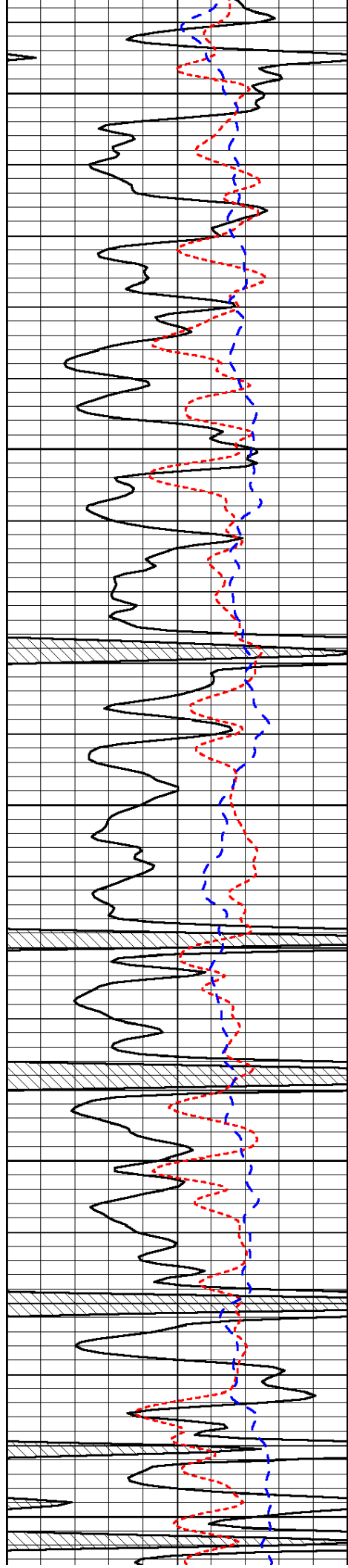


-38

-39

-39

-37



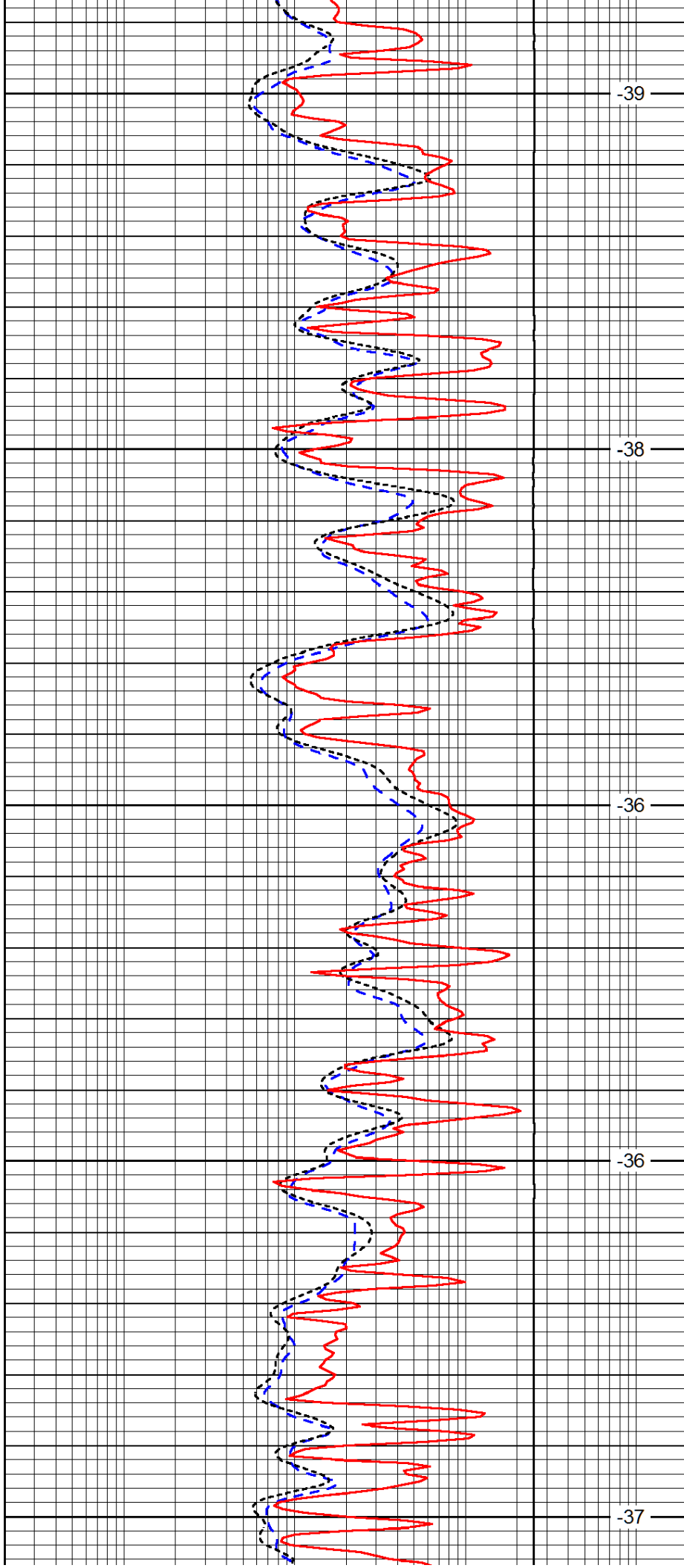
4400

4450

4500

4550

4600



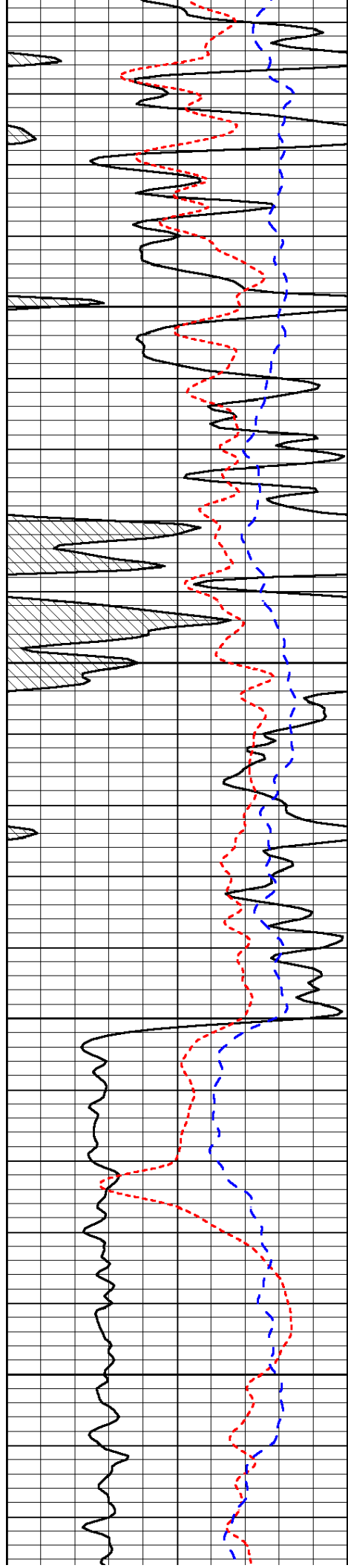
-39

-38

-36

-36

-37

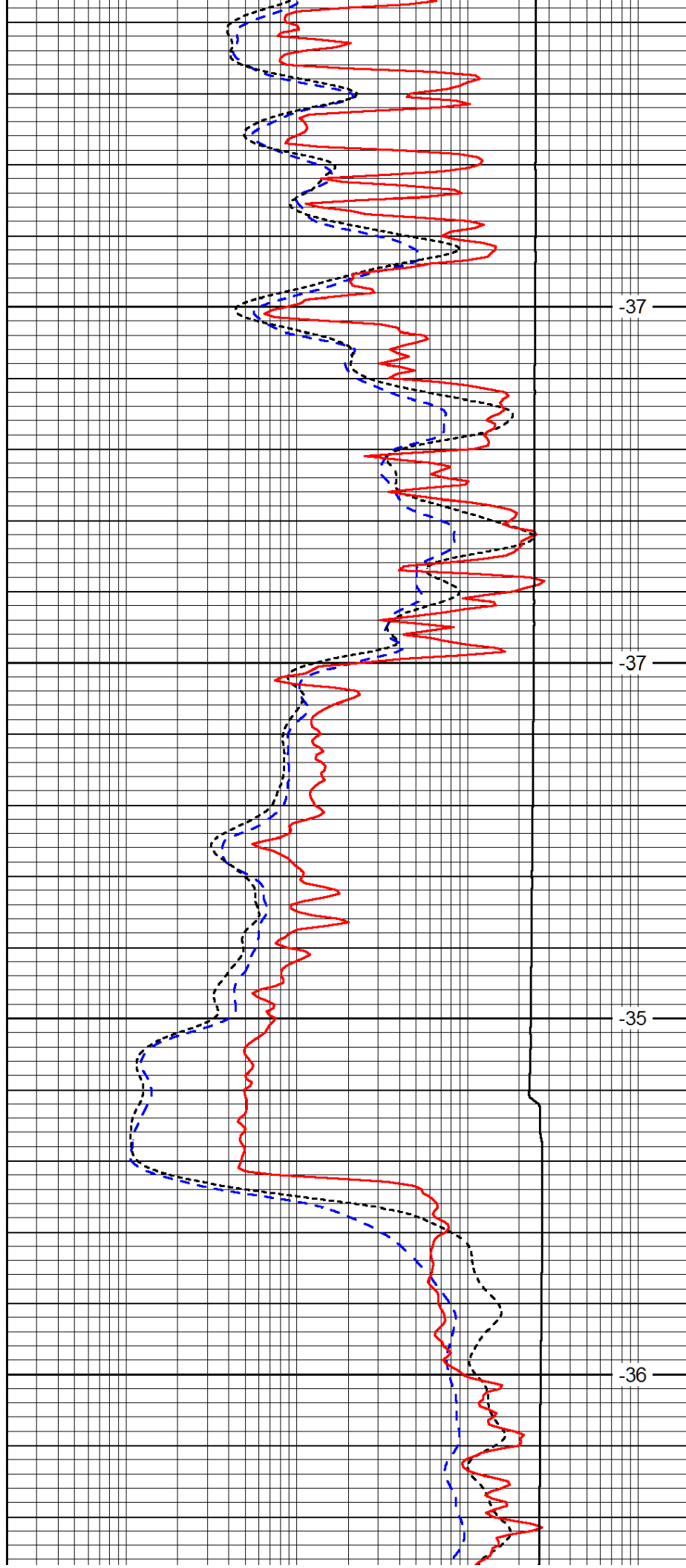


4650

4700

4750

4800

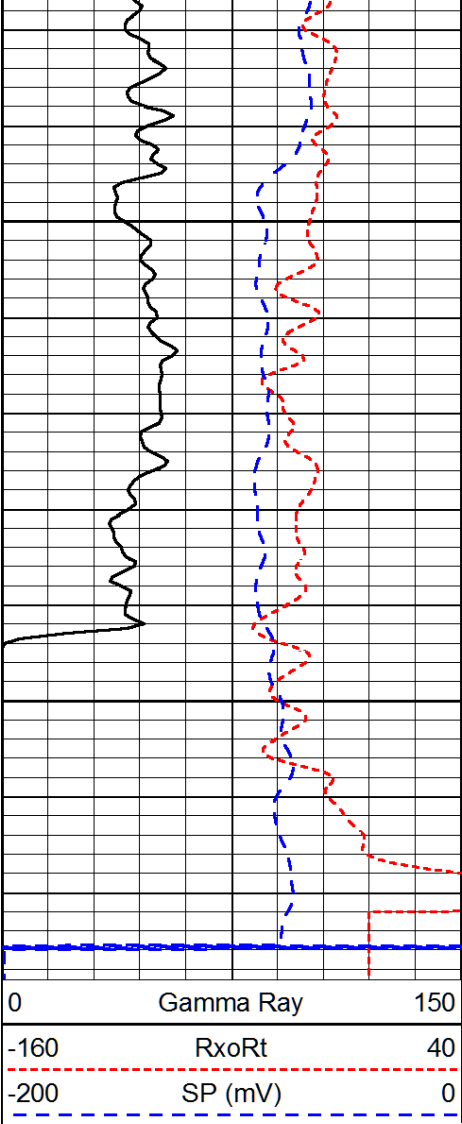


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-37

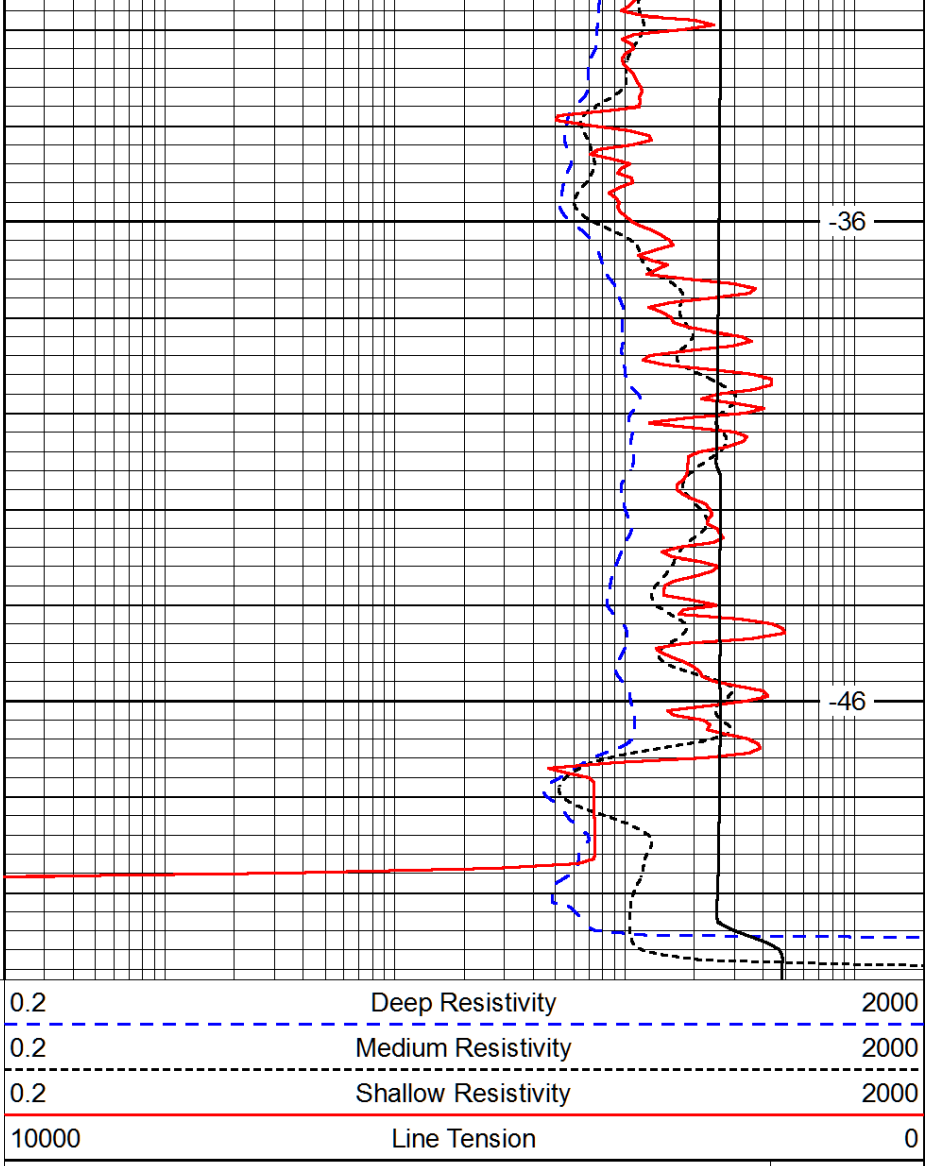
-35

-36



4850

4900



-36

-46

LSPD