



Dual Induction Log

Pioneer Energy Services

API No.

15-109-21,344-00-00

Company **Black Tea Oil, LLC**

Well **Younkin A #1**

Field

County **Logan**

State

Kansas

Location

1560' FNL & 1970' FEL

Other Services
CNL/CDL
MEL/BHCS

Sec: **19**

Twp: **14S**

Rge: **33W**

Elevation

K.B. 2912

D.F. 2903

G.L. 2903

Permanent Datum

Ground Level

Elevation 2903

Log Measured From

Kelly Bushing

9 Ft. Above Perm. Datum

Drilling Measured From

Front Kelly Bushing

Date

2/3/2015

Run Number

One

Depth Driller

4600

Depth Logger

4594

Bottom Logged Interval

4593

Top Log Interval

250

Casing Driller

8.625 @ 264

Casing Logger

265

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

7.000

Density / Viscosity

9.1 57

pH / Fluid Loss

9.5 8.0

Source of Sample

Flowline

Rm @ Meas. Temp

.35 @ 58

Rmf @ Meas. Temp

.26 @ 58

Rmc @ Meas. Temp

.47 @ 58

Source of Rmf / Rmc

Charts

Rm @ BHT

.17 @ 122

Operating Rig Time

5 Hours

Max Rec. Temp. F

122

Equipment Number

51

Location

Hays

Recorded By

C. Desaire

Witnessed By

Kevin Bailey

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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

Thank you for using Pioneer Energy Services
www.pioneerres.com
785 625 3858

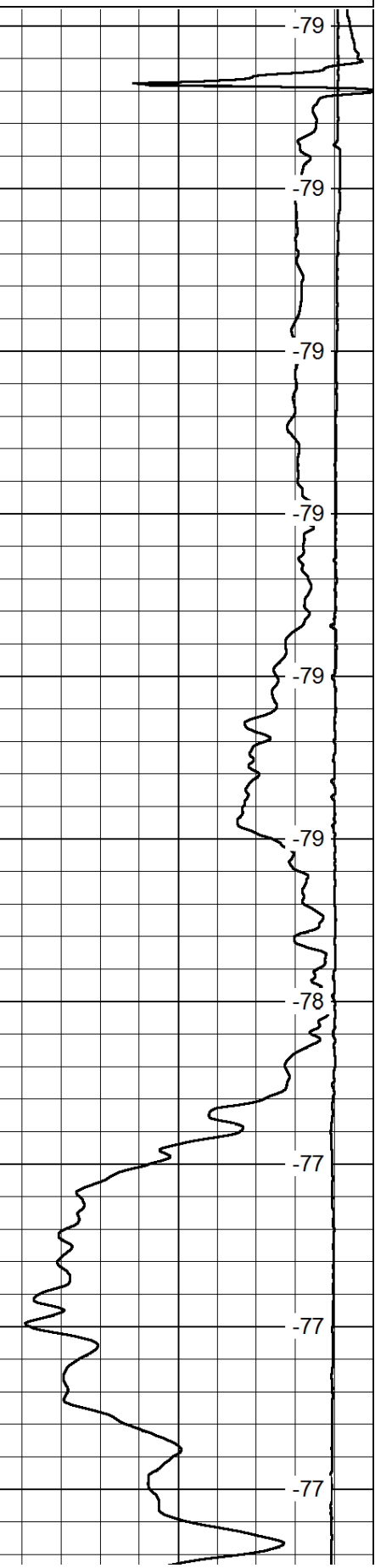
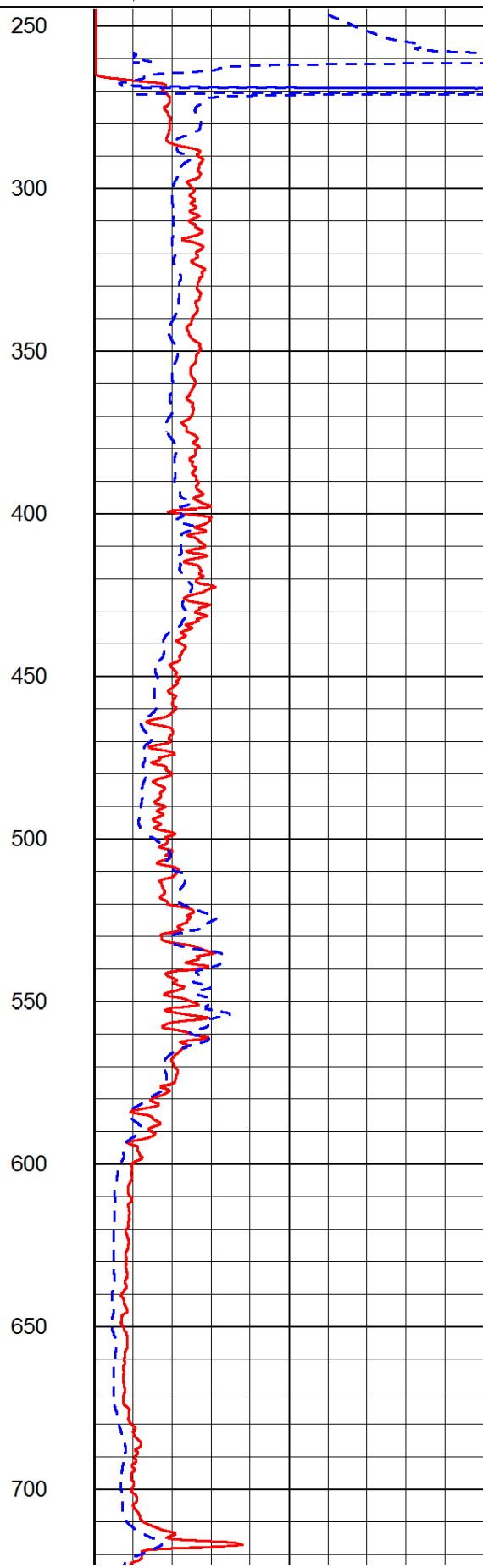
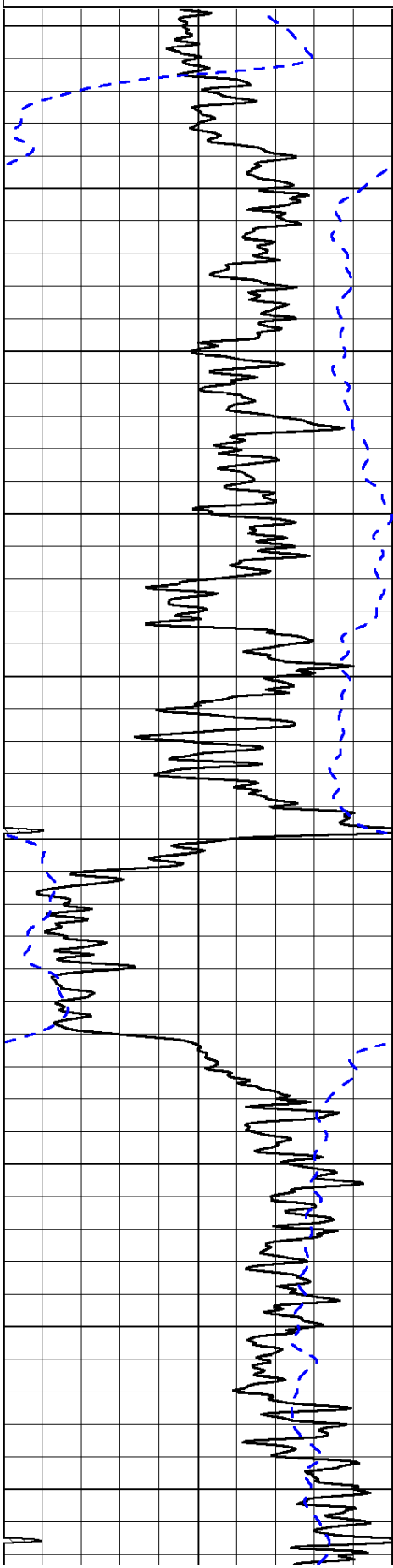
Monument KS, 19 1/2 S, W Into

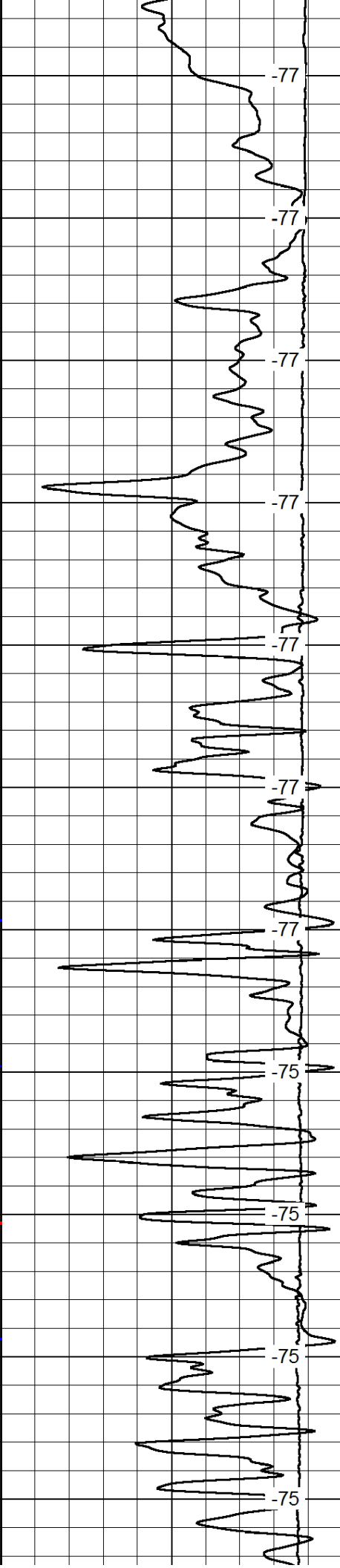
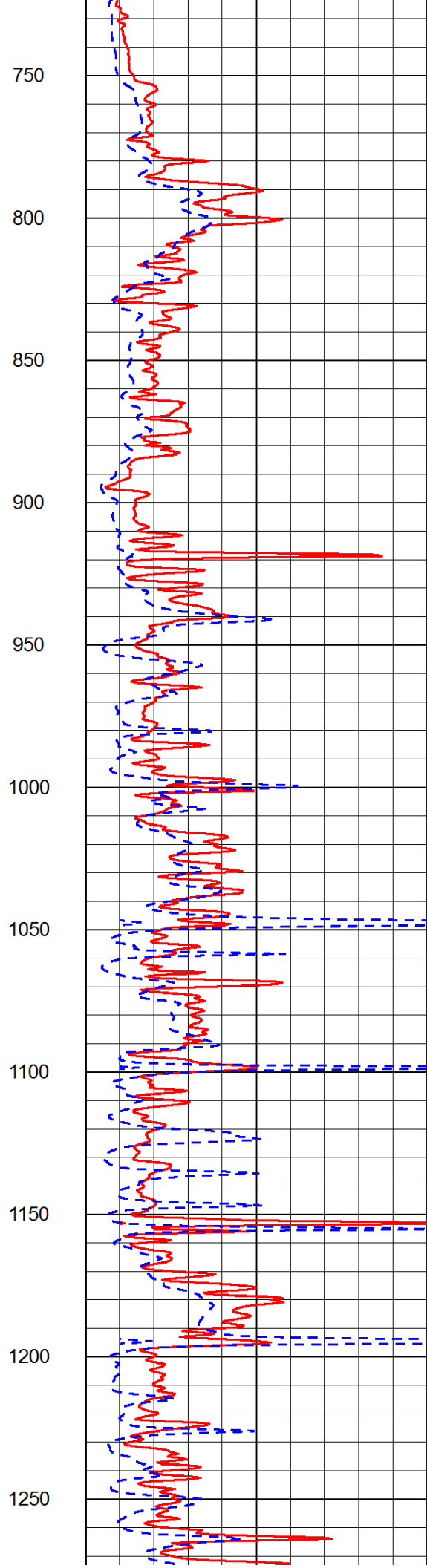
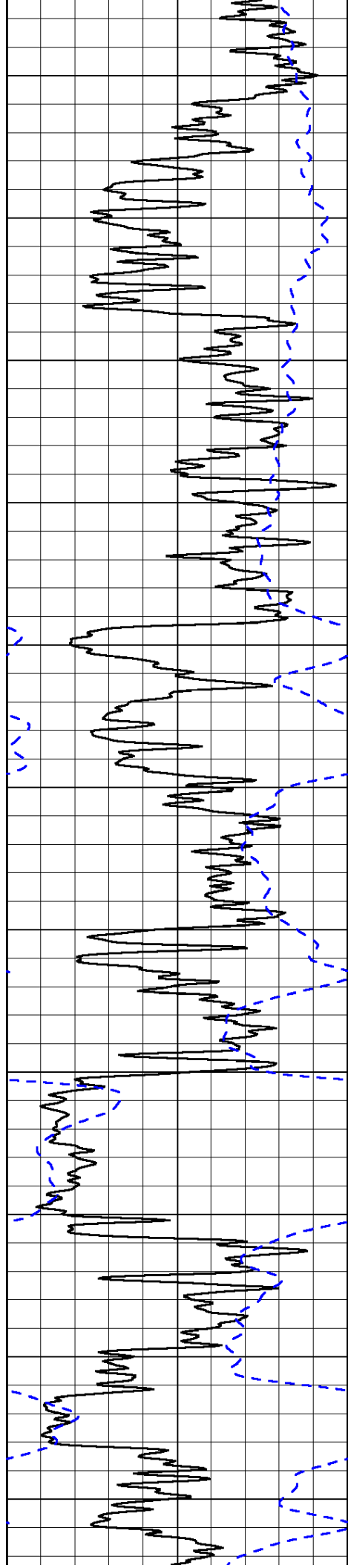
Database File: c:\warrior\data\black tea_youkin a #1\bthd.db
Dataset Pathname: dil/btstk2
Presentation Format: dil2in
Dataset Creation: Tue Feb 03 03:04:56 2015
Charted by: Depth in Feet scaled 1:600

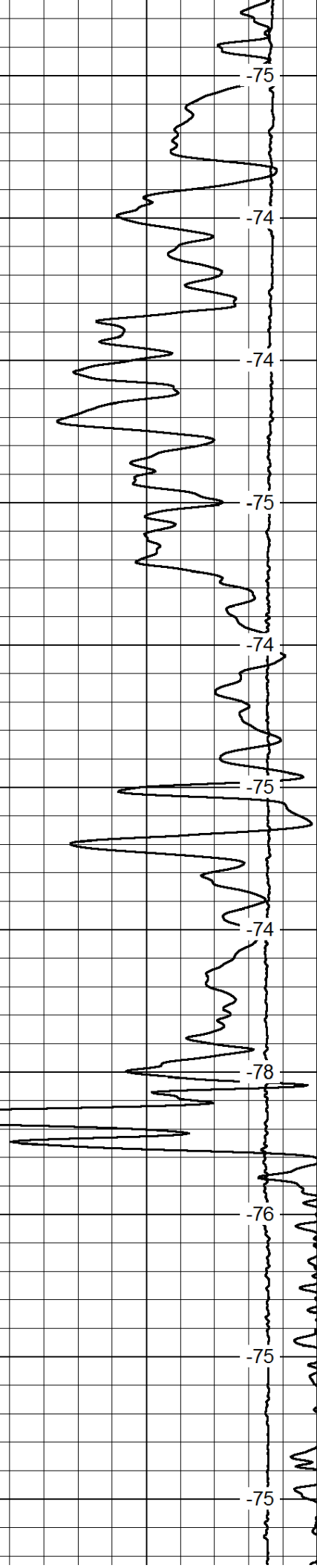
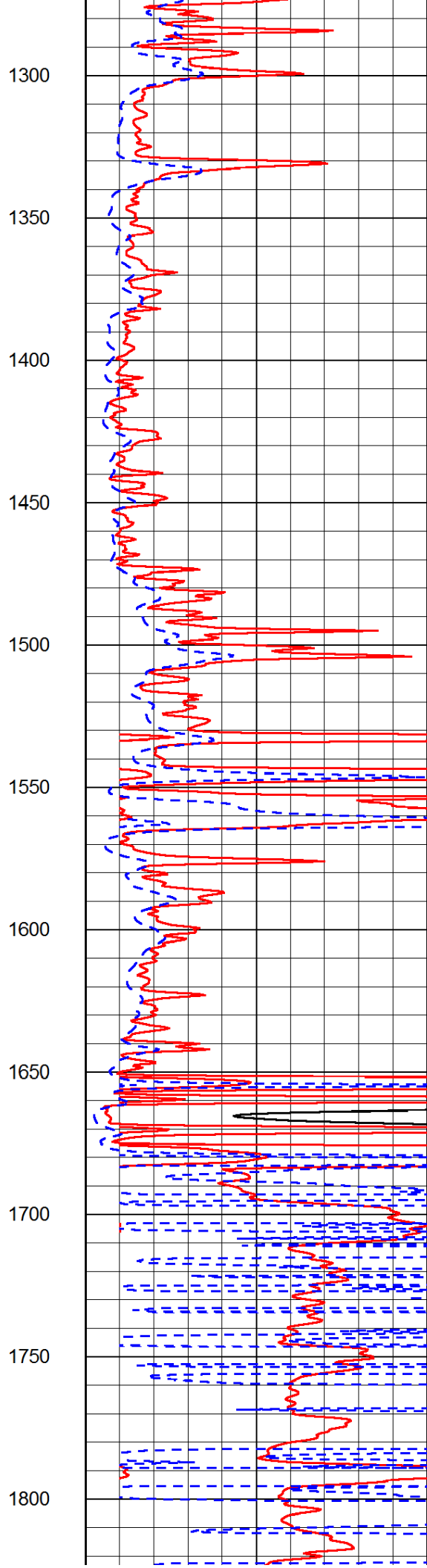
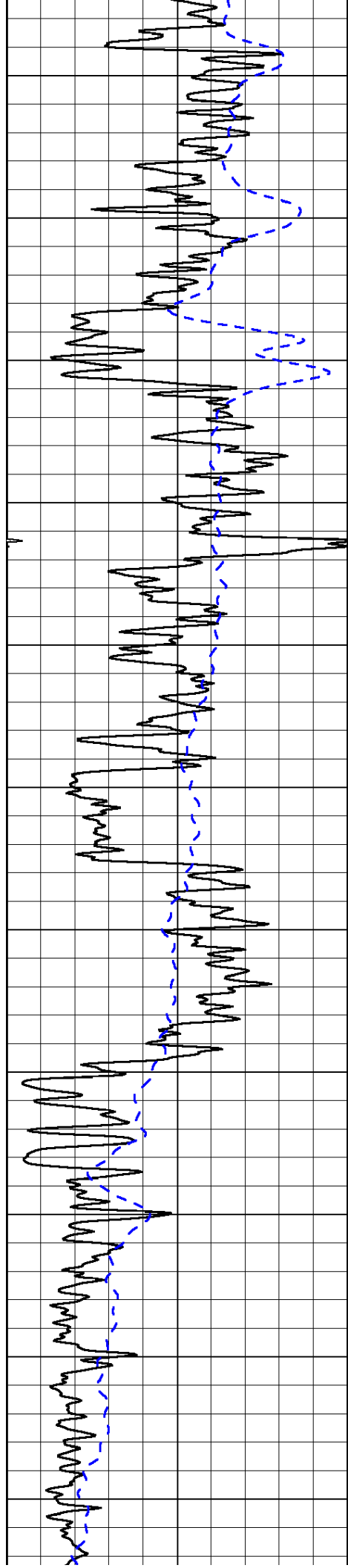
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-200	SP (mV)	0

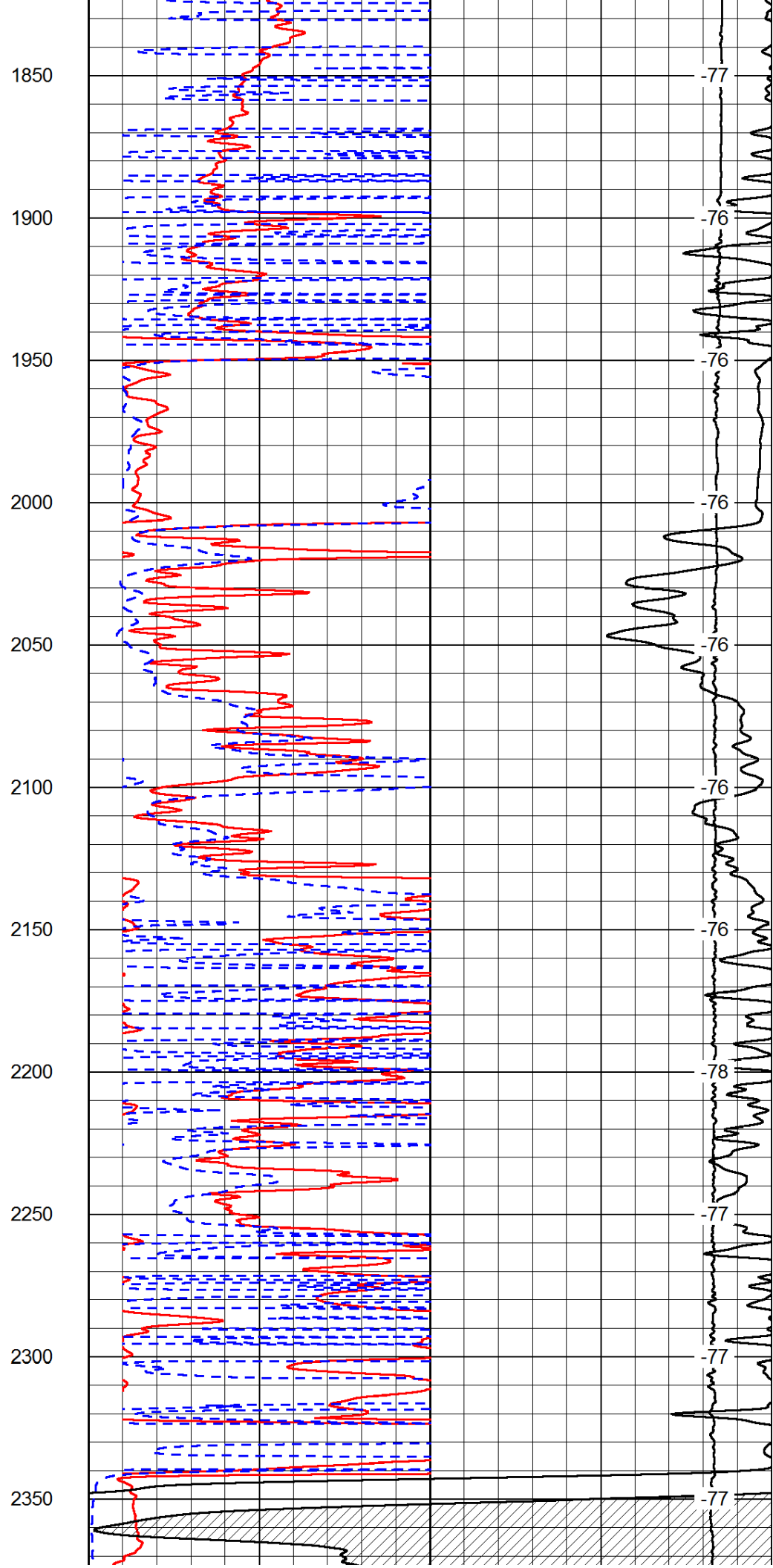
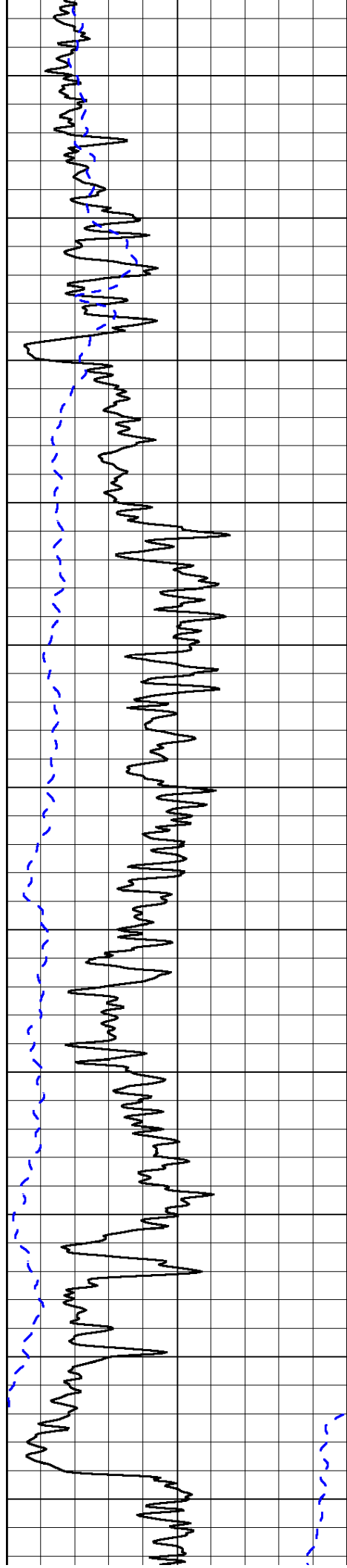
0	Shallow Resistivity	50
0	Deep Resistivity	50
1000	Conductivity	0
15000	Line Tension	0
50	Shallow Resistivity	500
50	Deep Resistivity	500

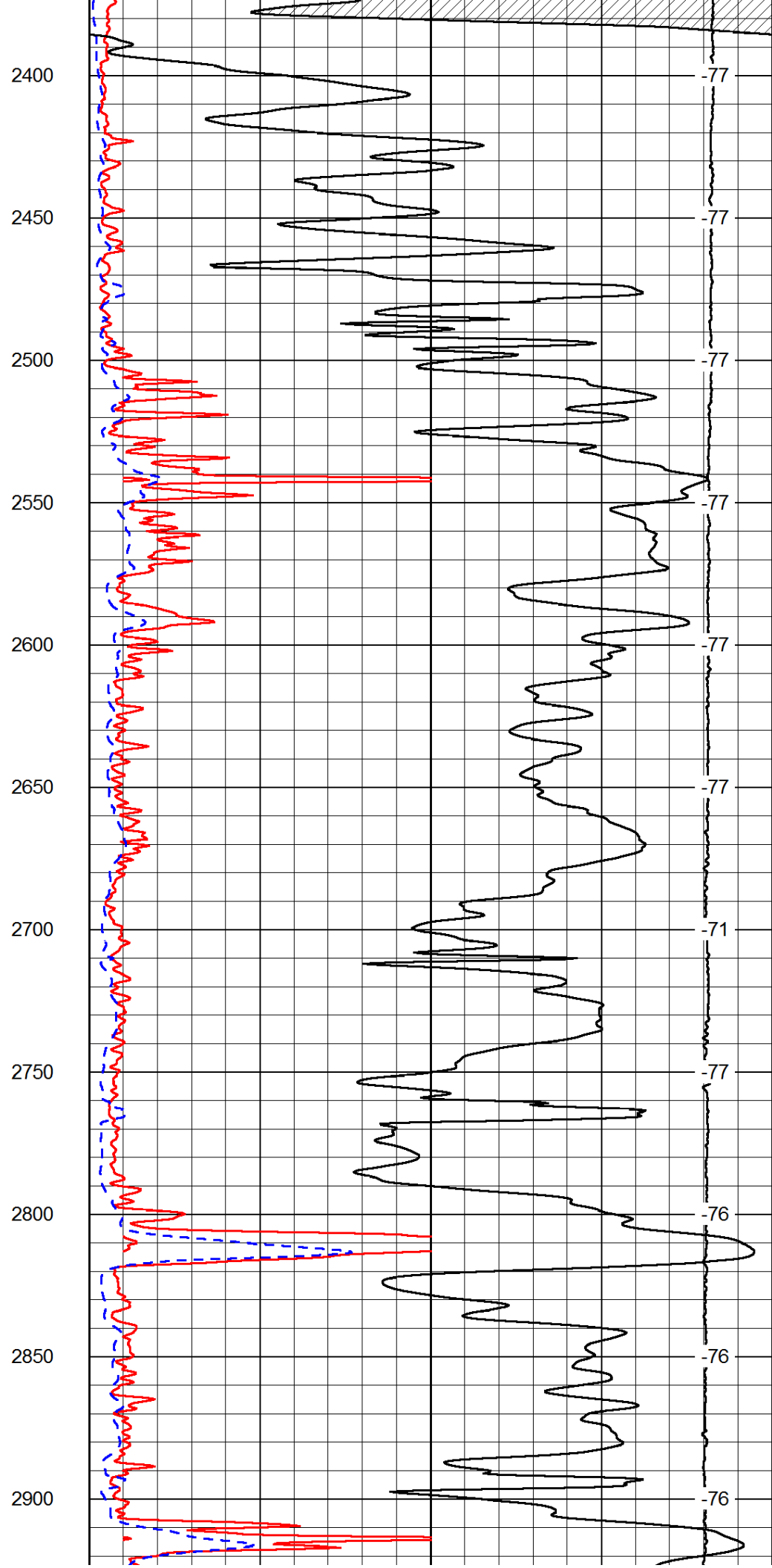
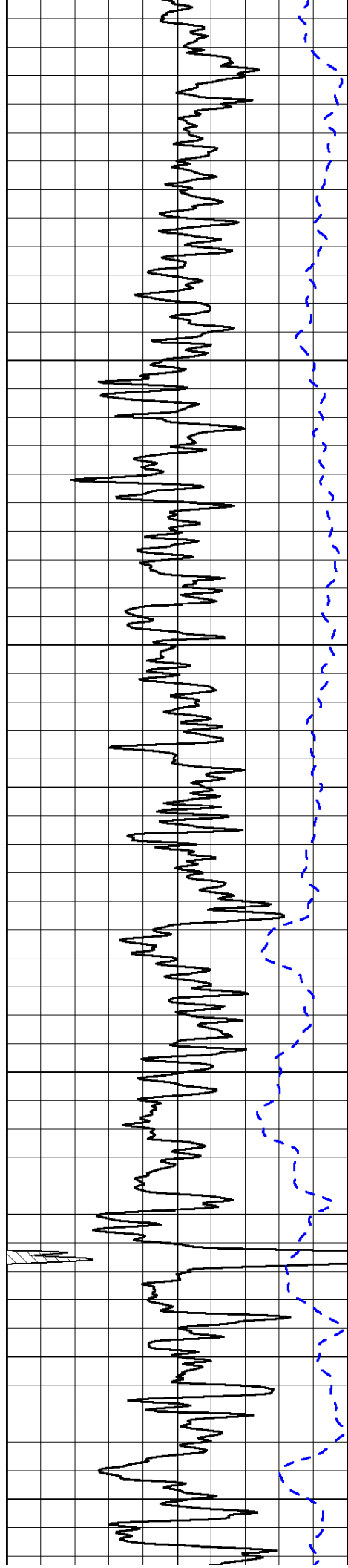
LSPD

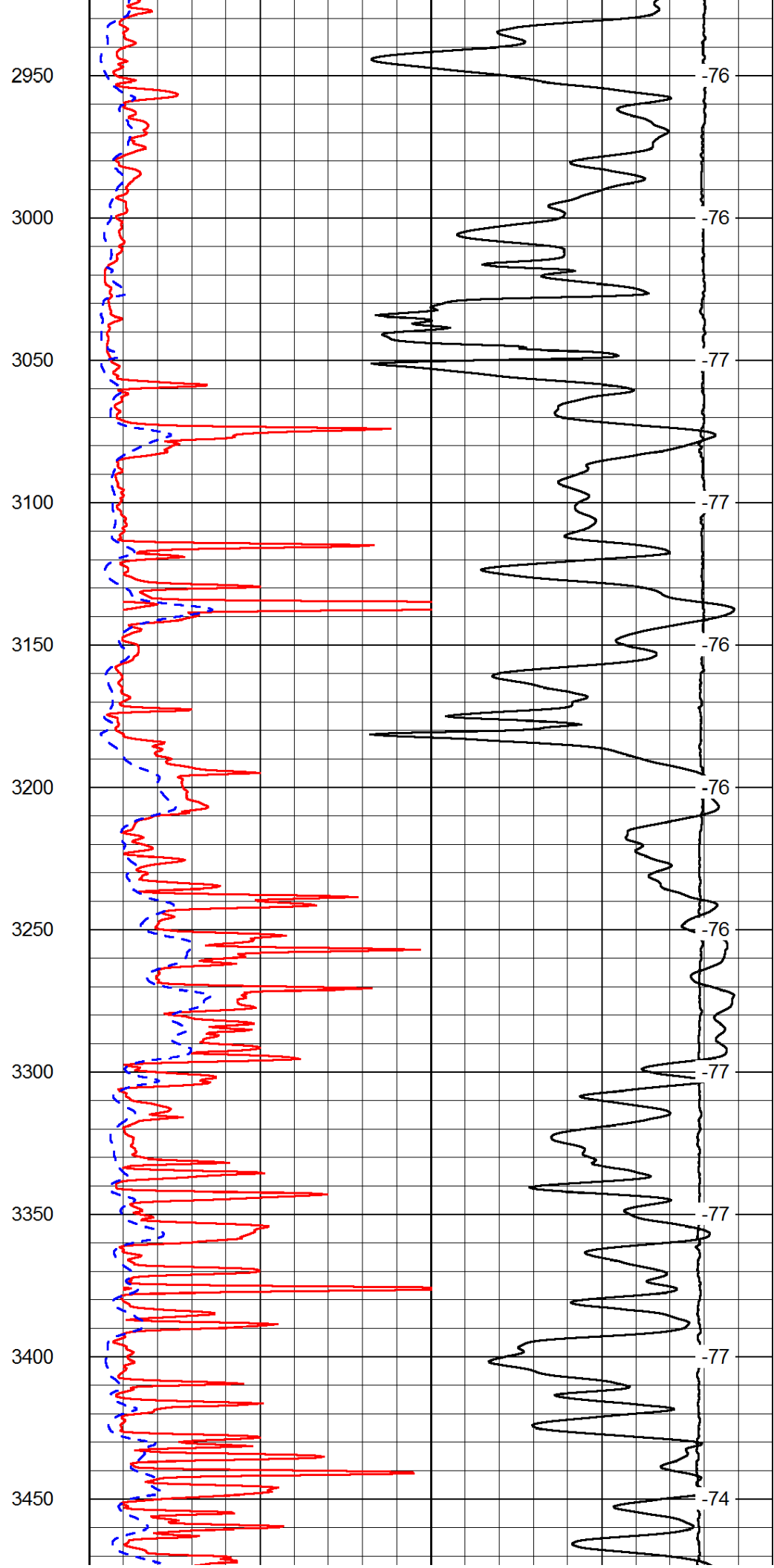
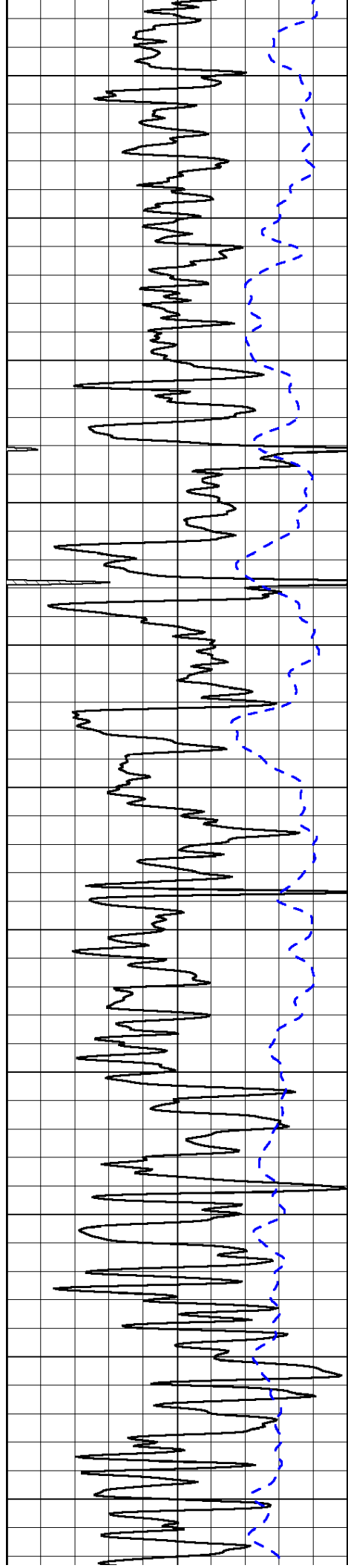


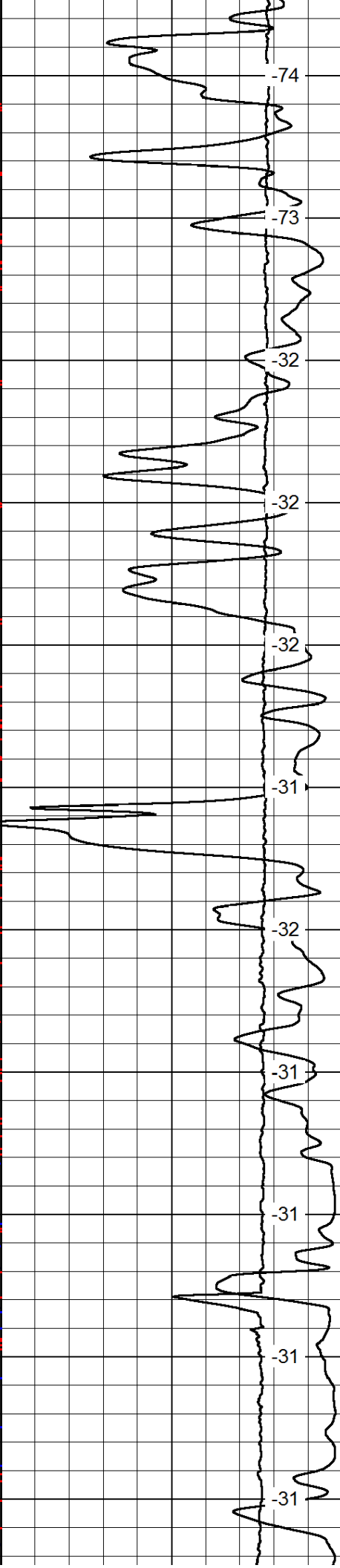
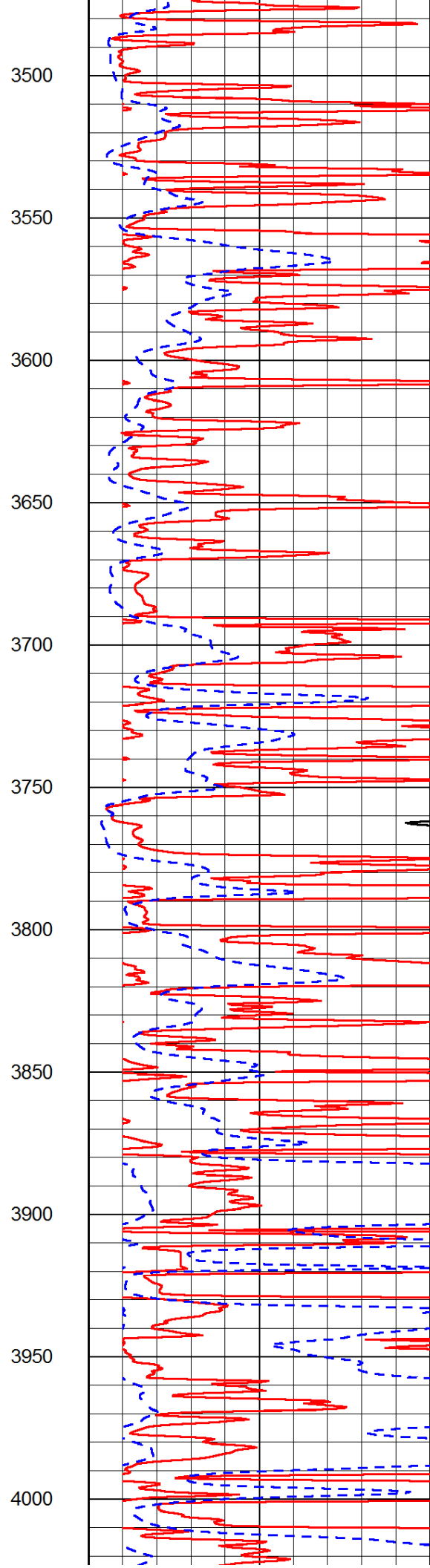
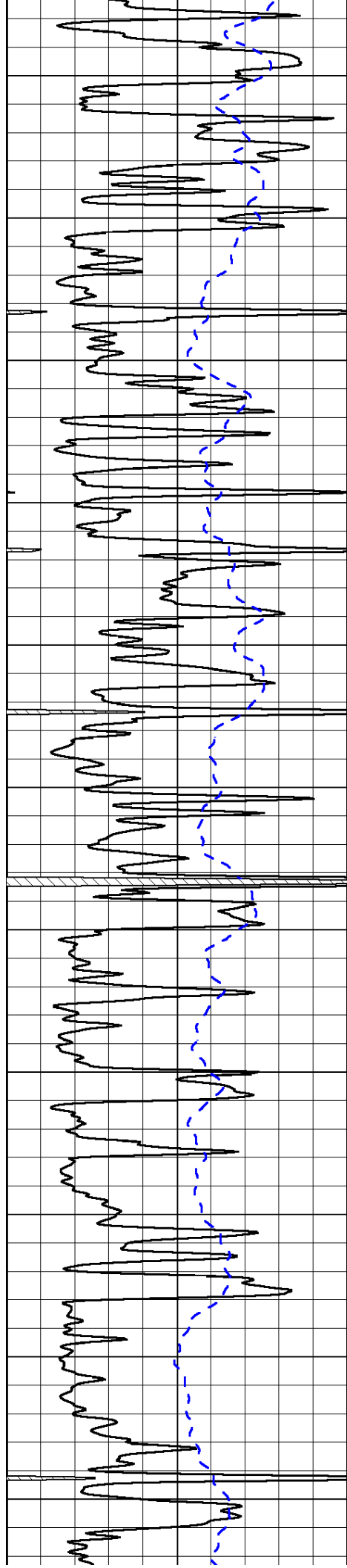


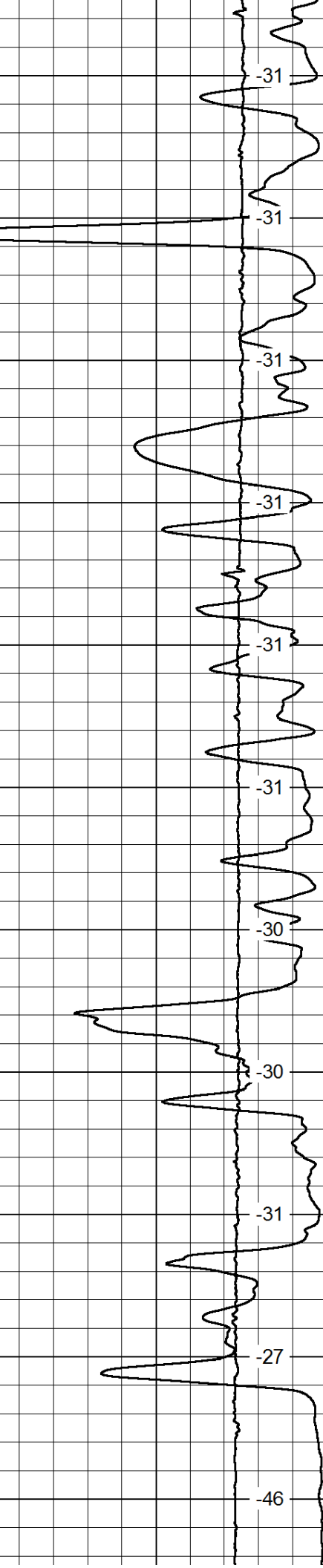
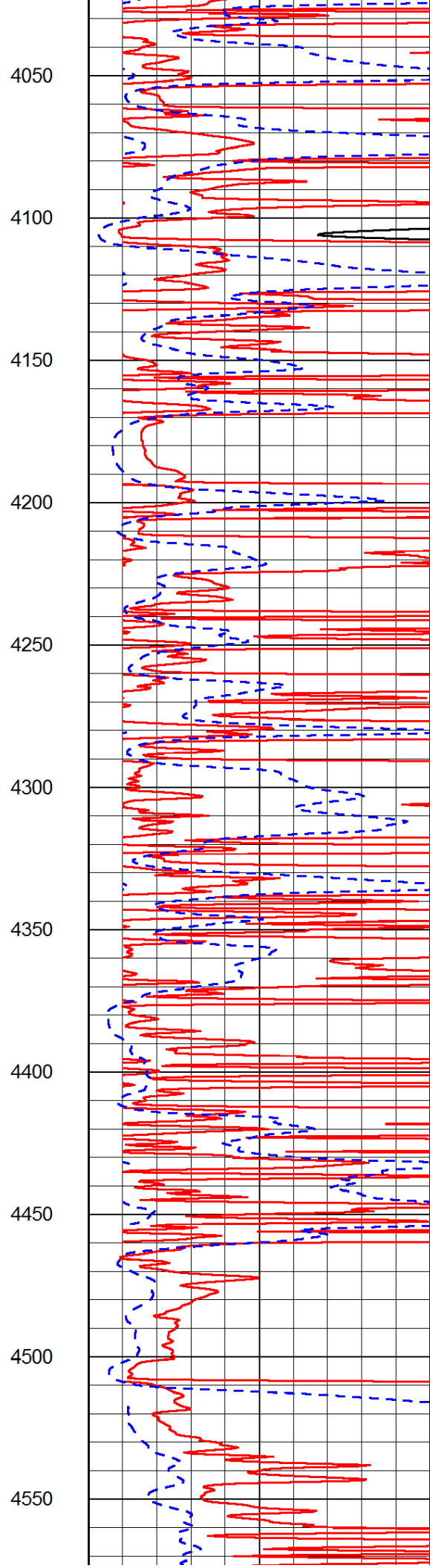
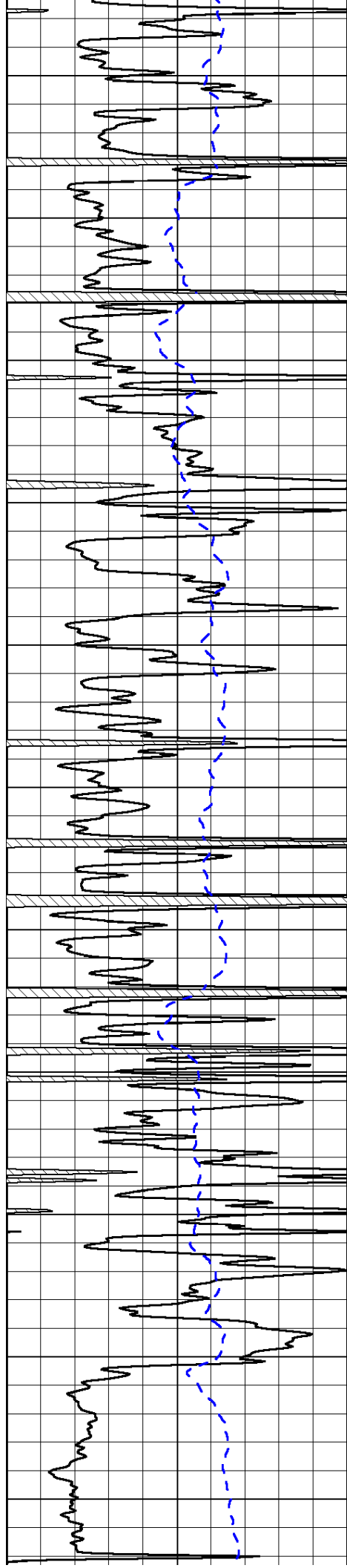


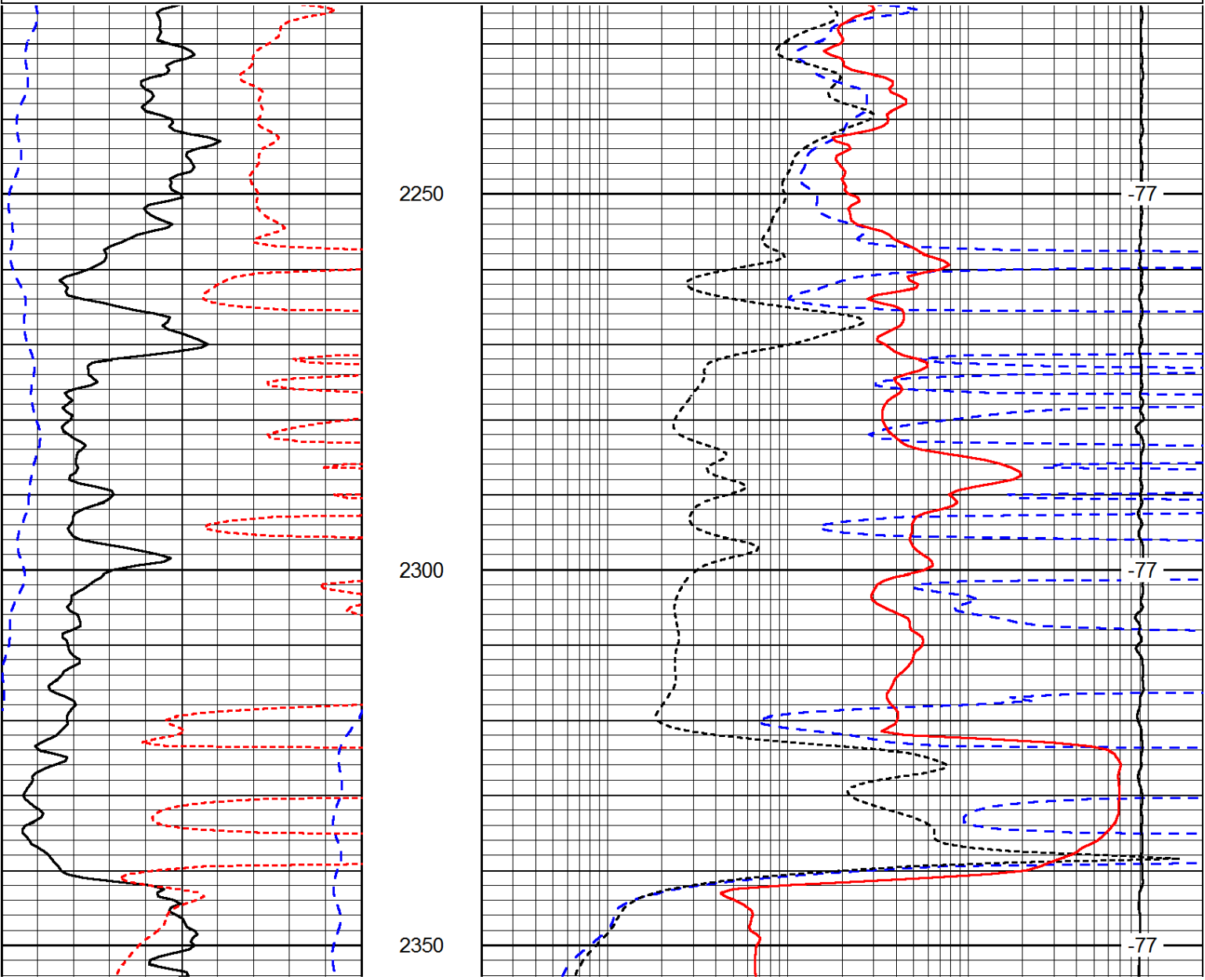
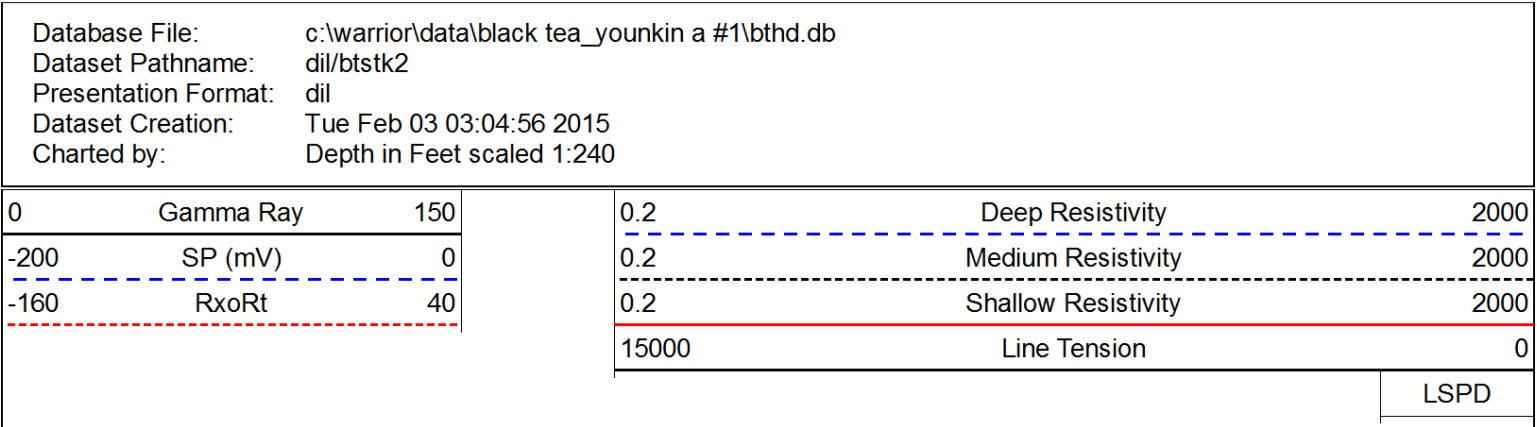
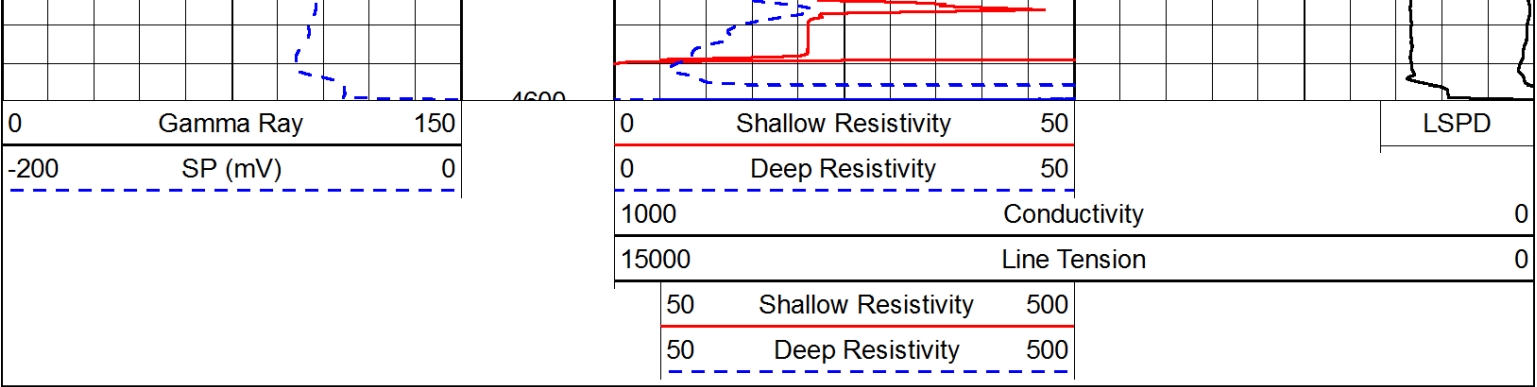


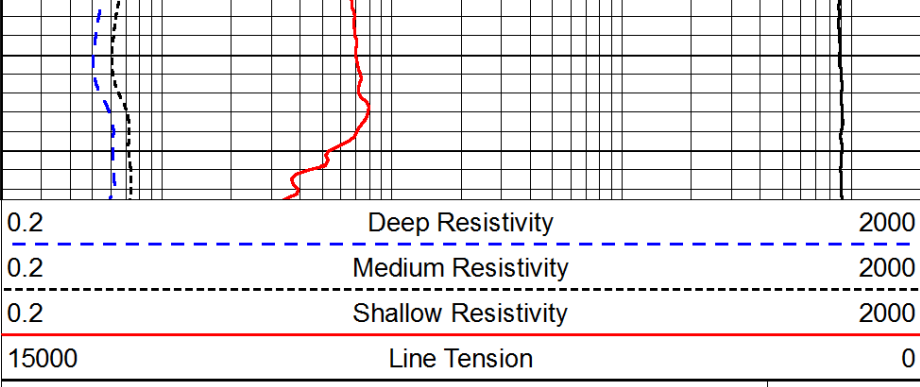
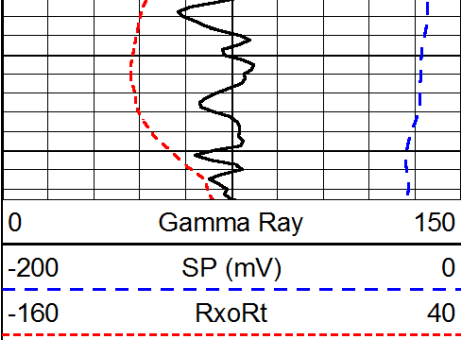






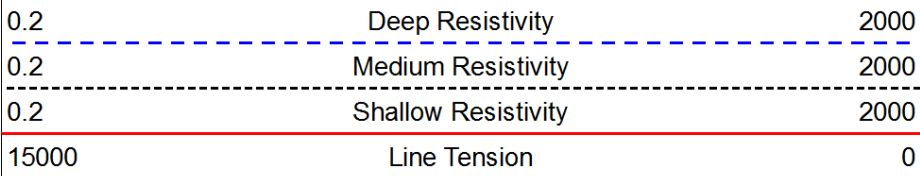
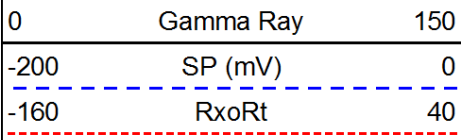




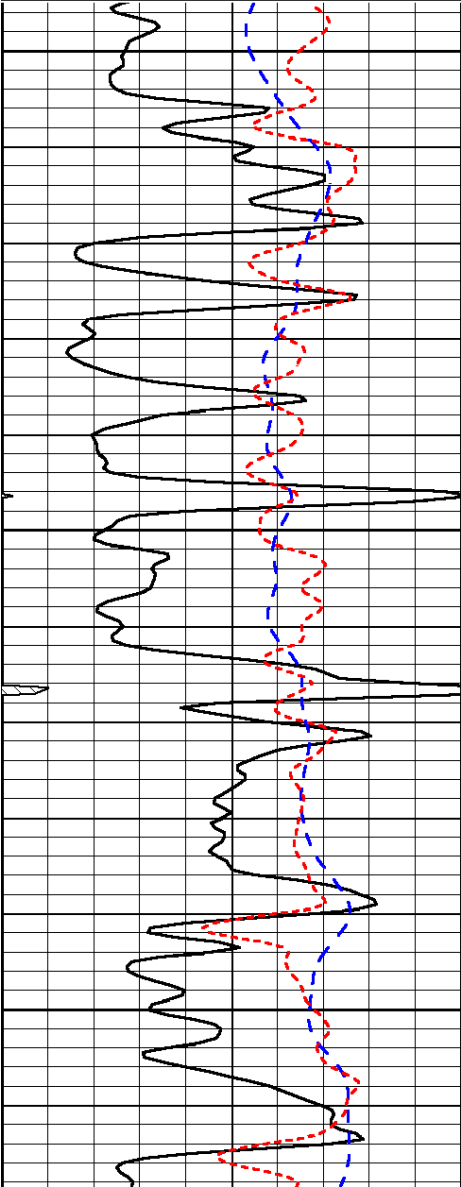


LSPD

Database File: c:\warrior\data\black tea_youngkin a #1\bthd.db
Dataset Pathname: dil/btstk2
Presentation Format: dil
Dataset Creation: Tue Feb 03 03:04:56 2015
Charted by: Depth in Feet scaled 1:240



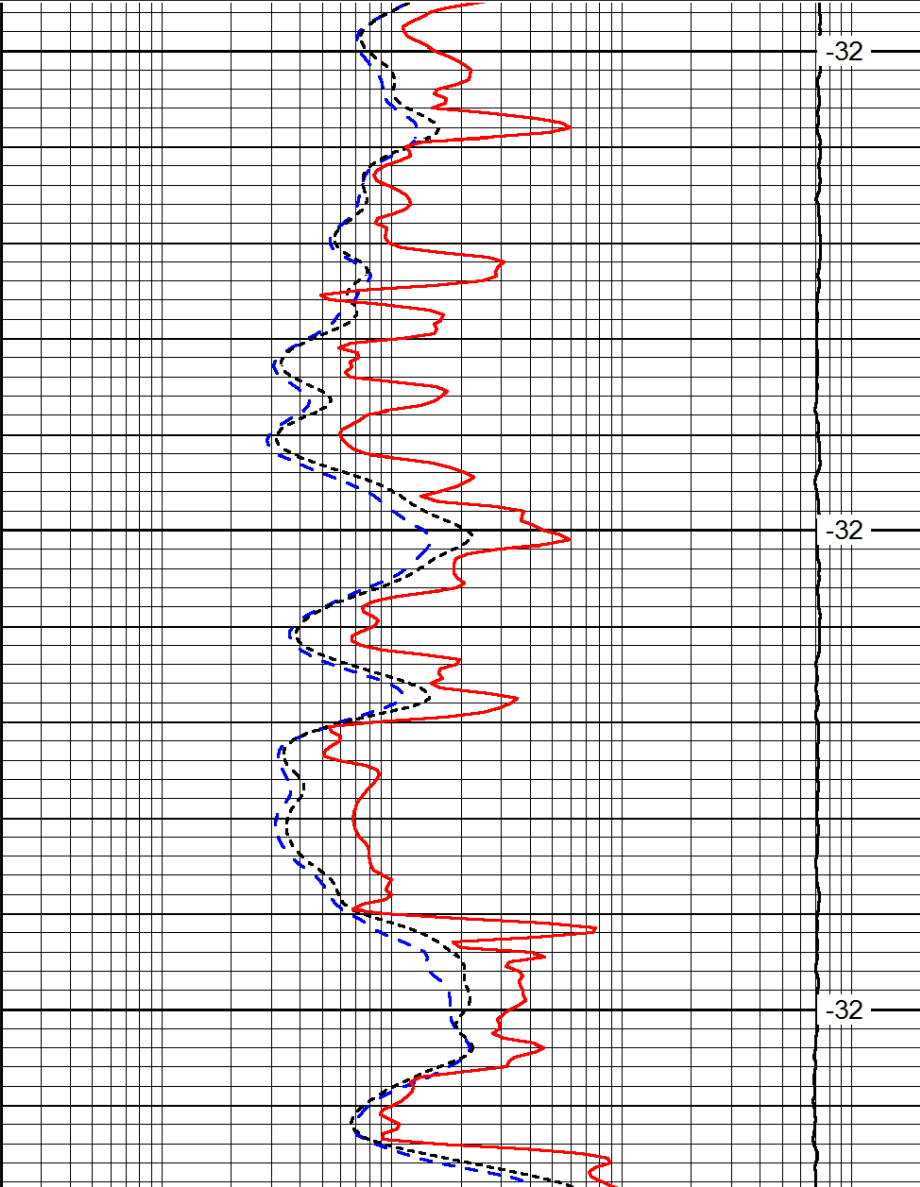
LSPD



3600

3650

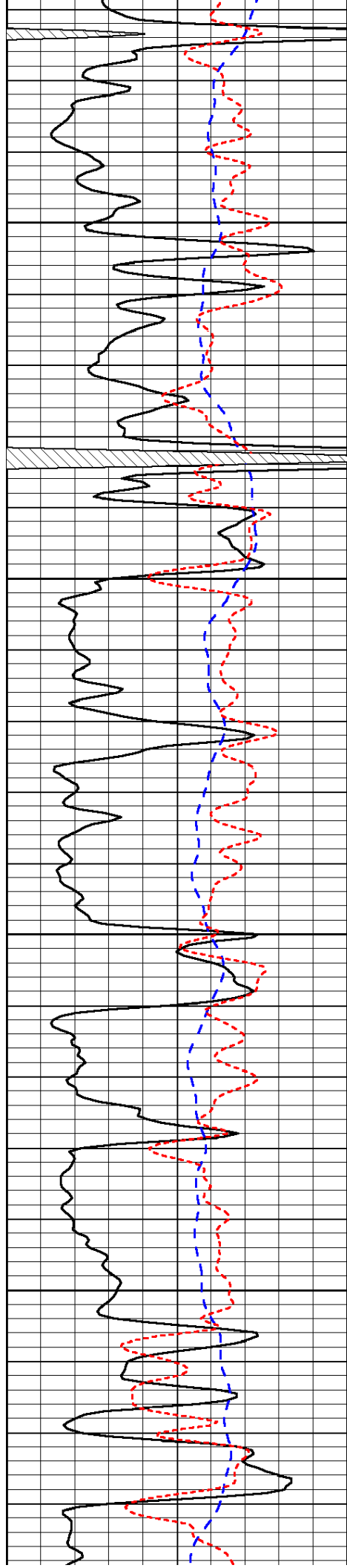
3700



-32

-32

-32

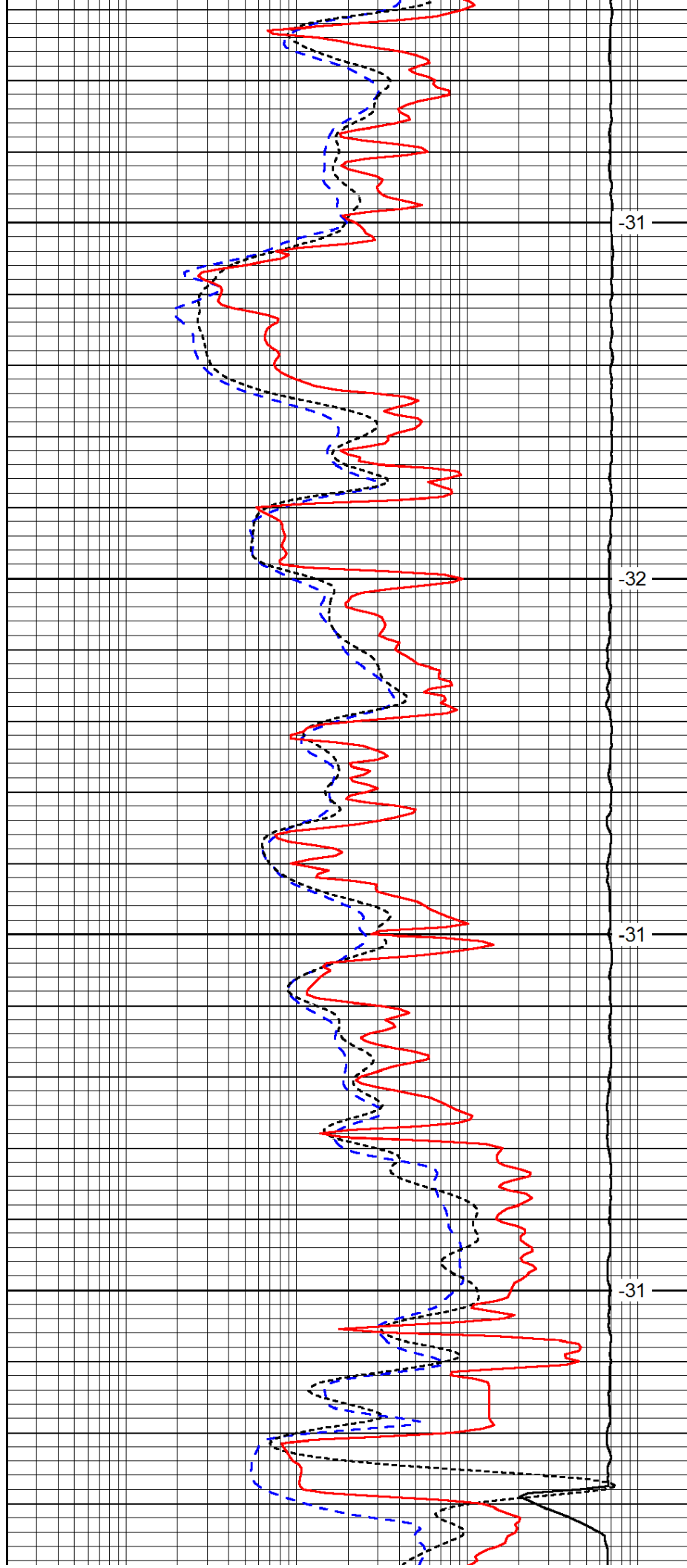


3750

3800

3850

3900

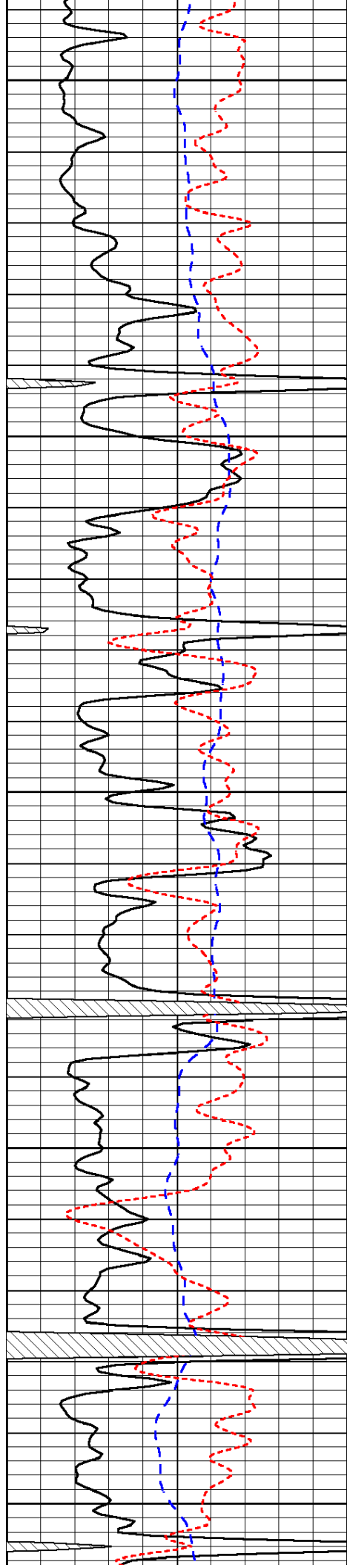


-31

-32

-31

-31



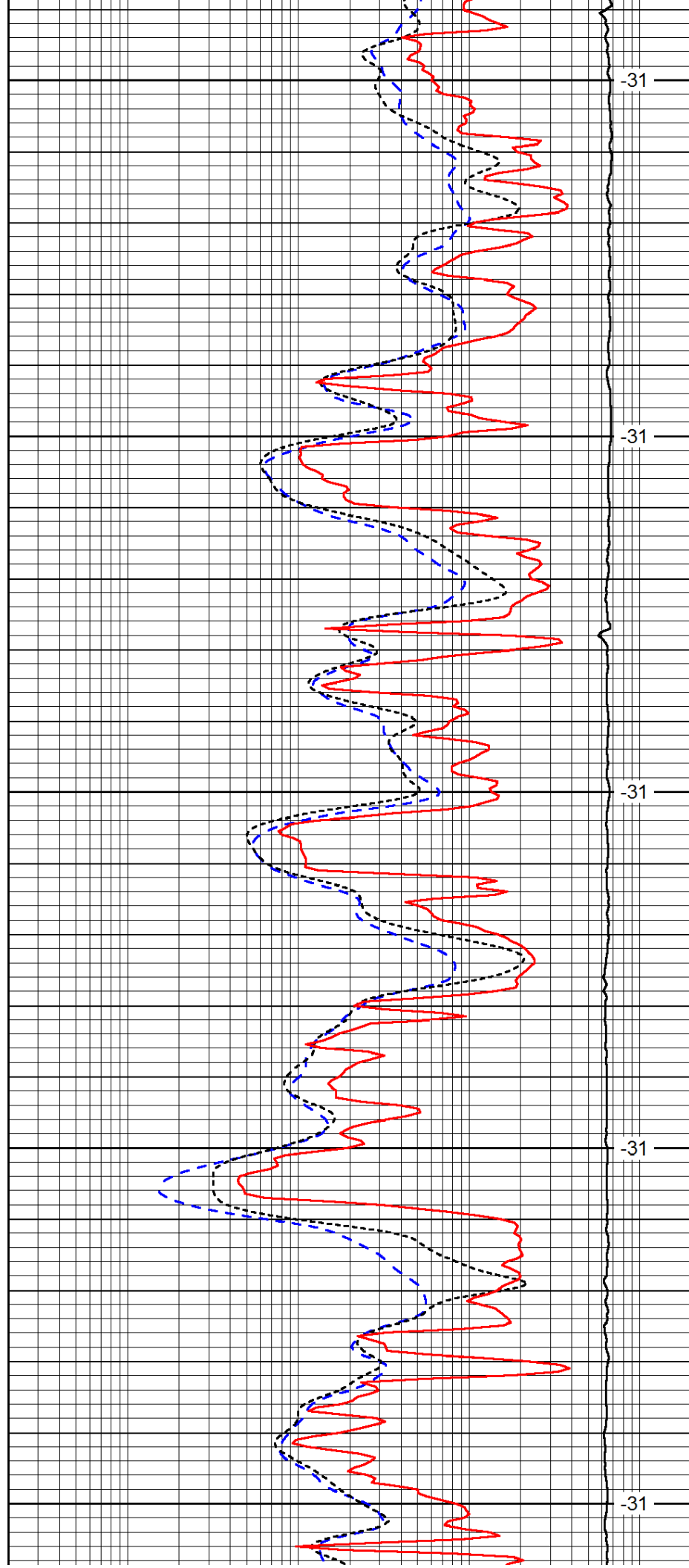
3950

4000

4050

4100

4150



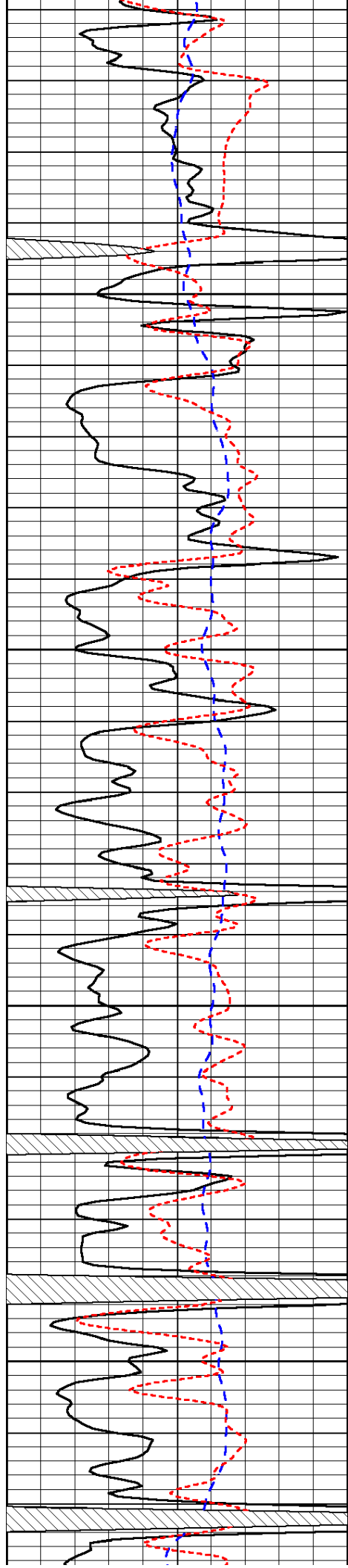
-31

-31

-31

-31

-31

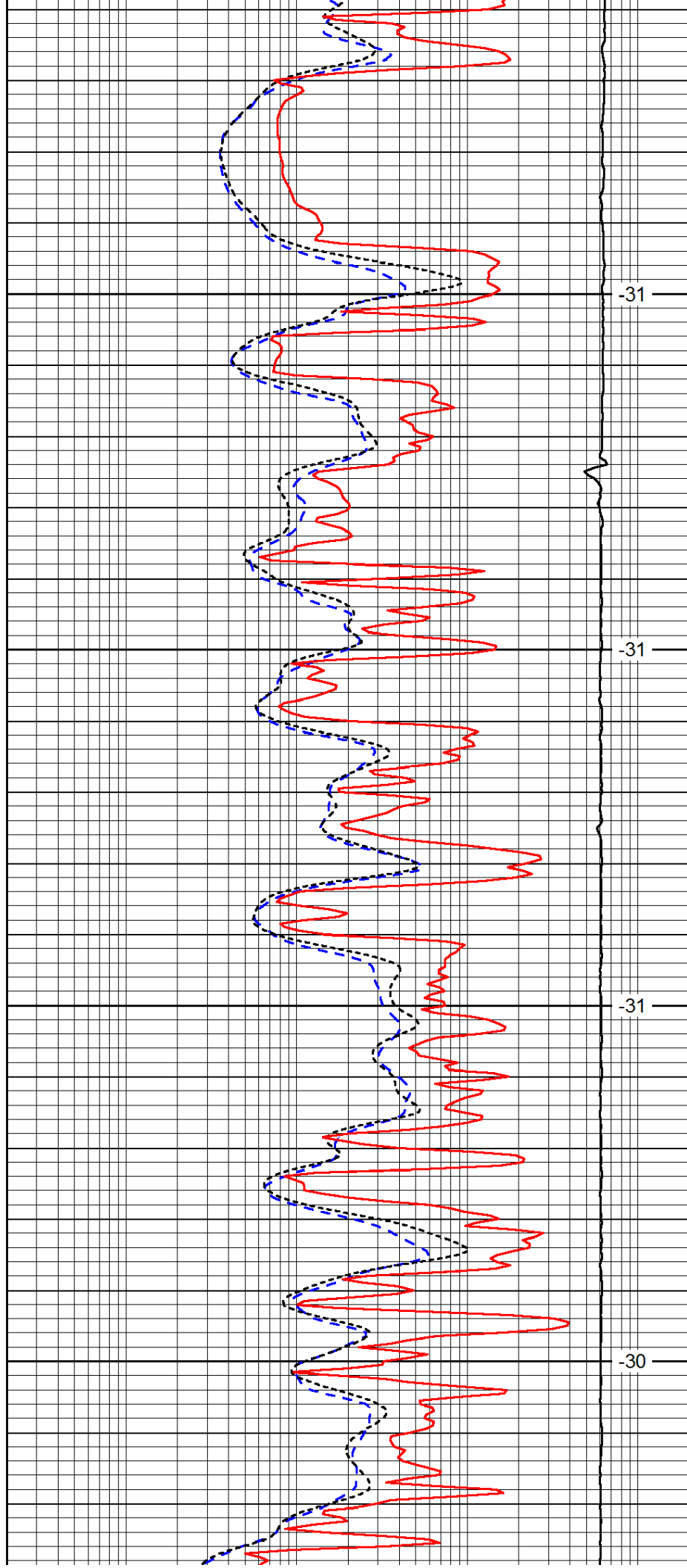


4200

4250

4300

4350

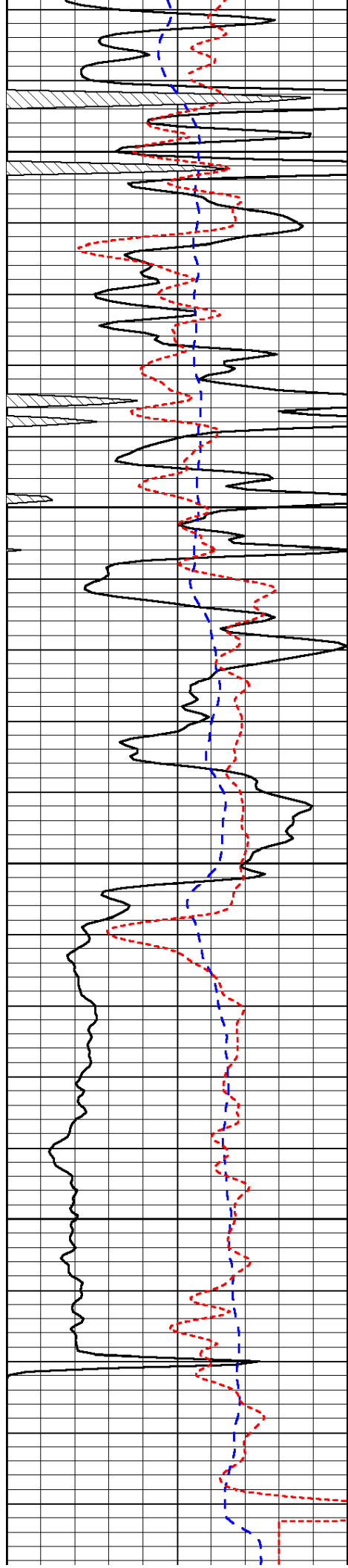


-31

-31

-31

-30

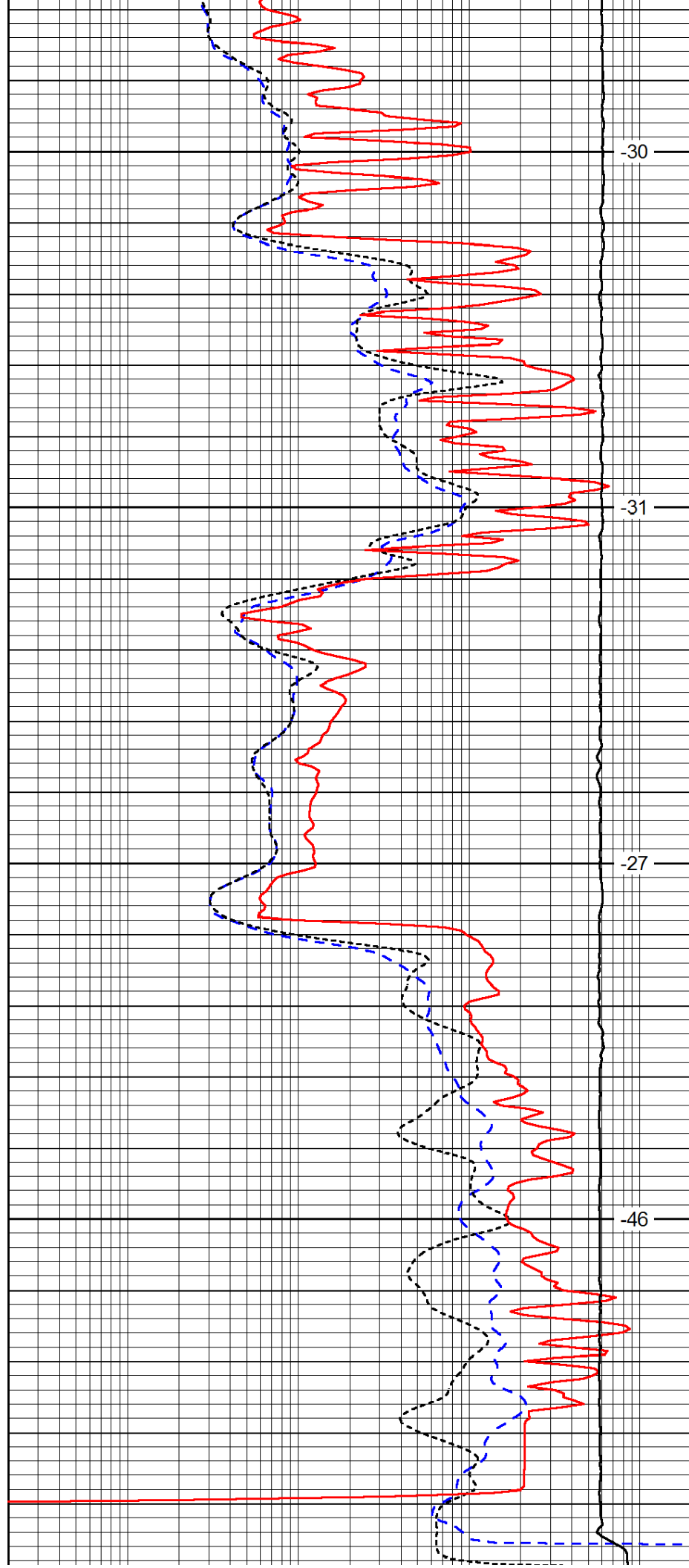


4400

4450

4500

4550



-30

-31

-27

-46

0	Gamma Ray	150	1000	0.2	Deep Resistivity	2000
-200	SP (mV)	0		0.2	Medium Resistivity	2000
-160	RxoRt	40		0.2	Shallow Resistivity	2000
				15000	Line Tension	0
						LSPD