



Dual Induction Log

Pioneer Energy Services

API No.

15-101-22,553-00-00

Company **Larson Engineering, Inc.**

Well **Buena Vista #1-18**

Field **Wildcat**

County **Lane** State **Kansas**

Location

1220' FSL & 2532' FWL

Sec: **18** Twp: **17S** Rge: **29W**

Other Services
CNL/CDL
MEL

Elevation

K.B. 2837
D.F.
G.L. 2828

Permanent Datum Ground Level Elevation 2828

Log Measured From Kelly Bushing 9 Ft. Above Perm. Datum

Drilling Measured From Kelly Bushing

Date

2/21/2015

Run Number

One

Depth Driller

4560

Depth Logger

4556

Bottom Logged Interval

4555

Top Log Interval

250

Casing Driller

8.625 @ 264

Casing Logger

250

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

1,700

Density / Viscosity

9.1 53

pH / Fluid Loss

10.0 6.0

Source of Sample

Flowline

Rm @ Meas. Temp

1.2 @ 60

Rmf @ Meas. Temp

.9 @ 60

Rmc @ Meas. Temp

1.62 @ 60

Source of Rmf / Rmc

Charts

Rm @ BHT

.59 @ 122

Operating Rig Time

4 Hours

Max Rec. Temp. F

122

Equipment Number

51

Location

Hays

Recorded By

C. Desaire

Witnessed By

Vern Schrag

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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

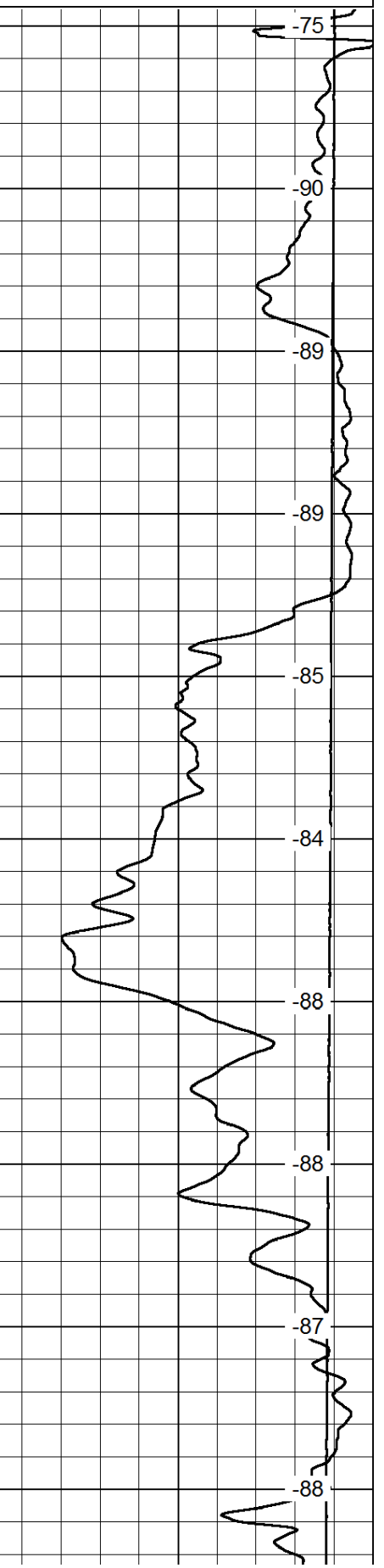
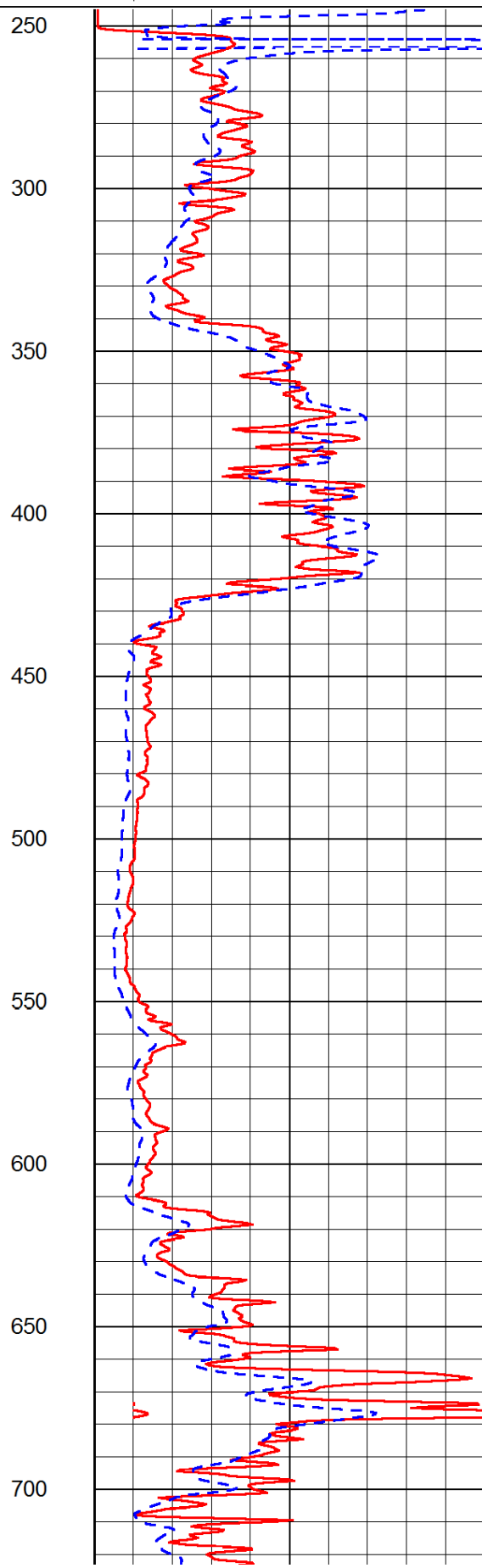
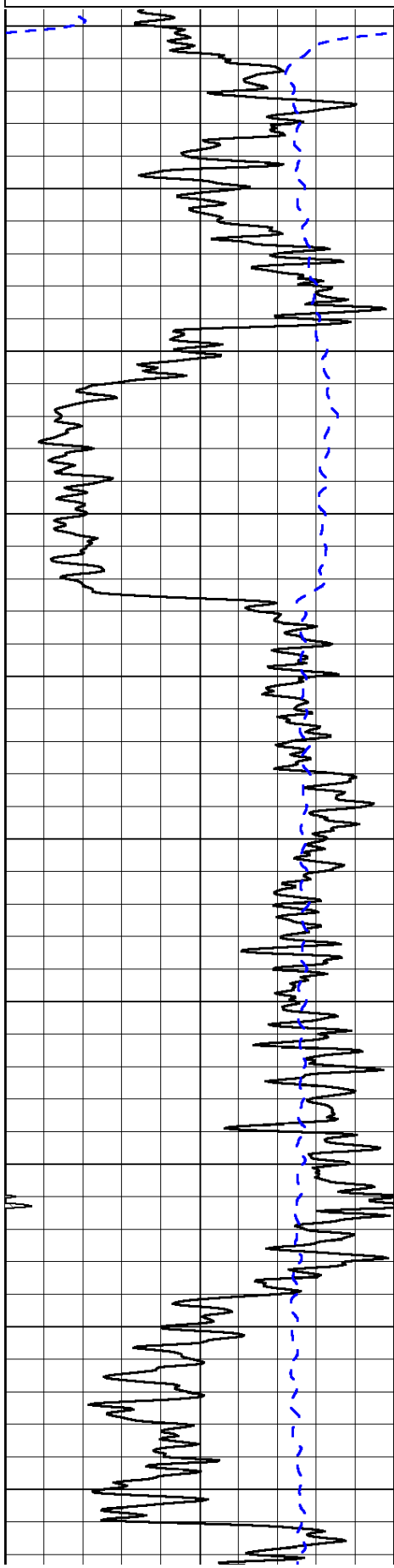
Healy KS, E to Eagle Rd, S to 210 Rd,
1 1/2 E, N Into

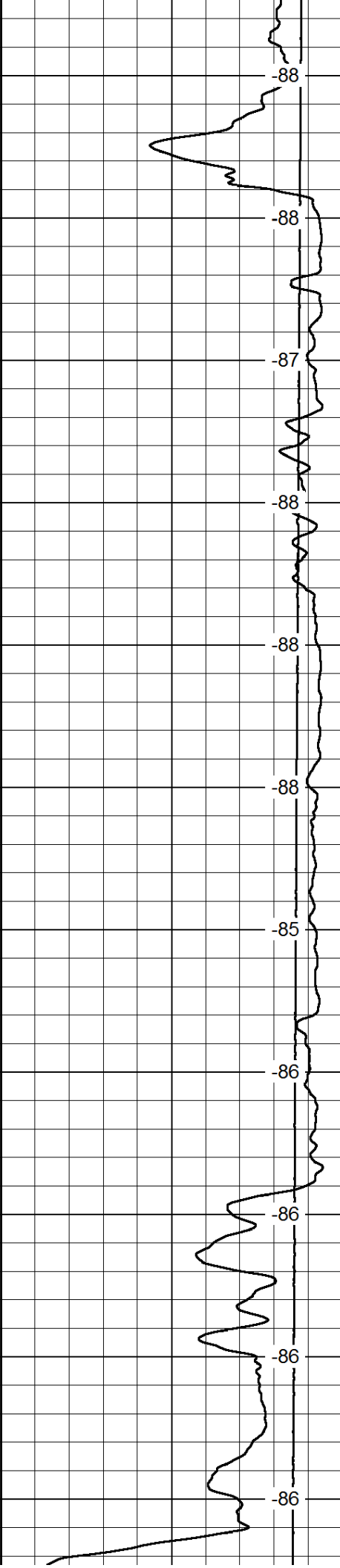
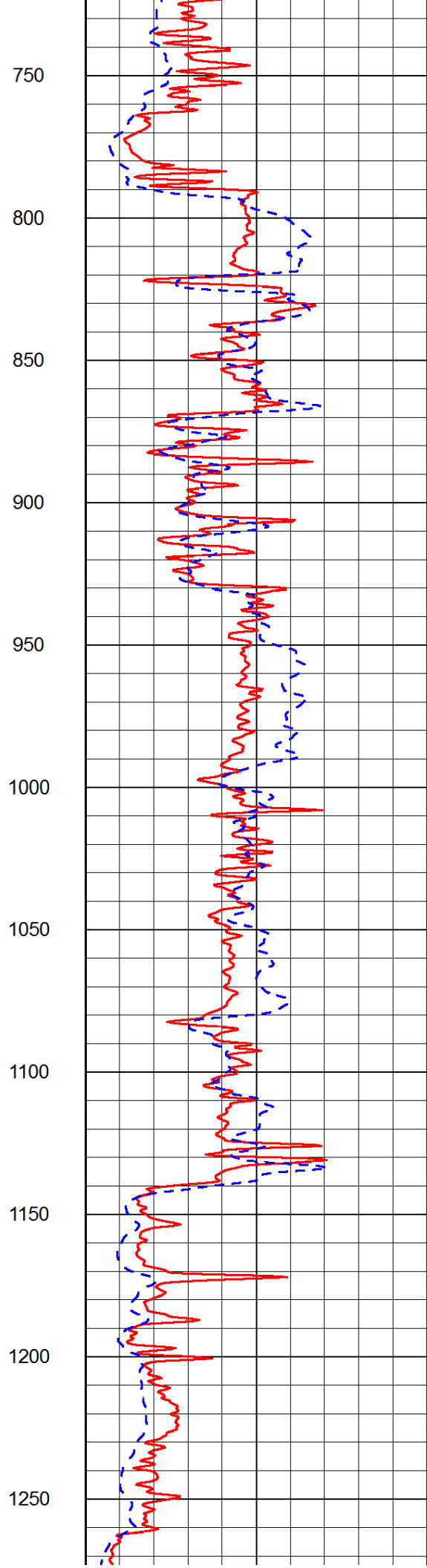
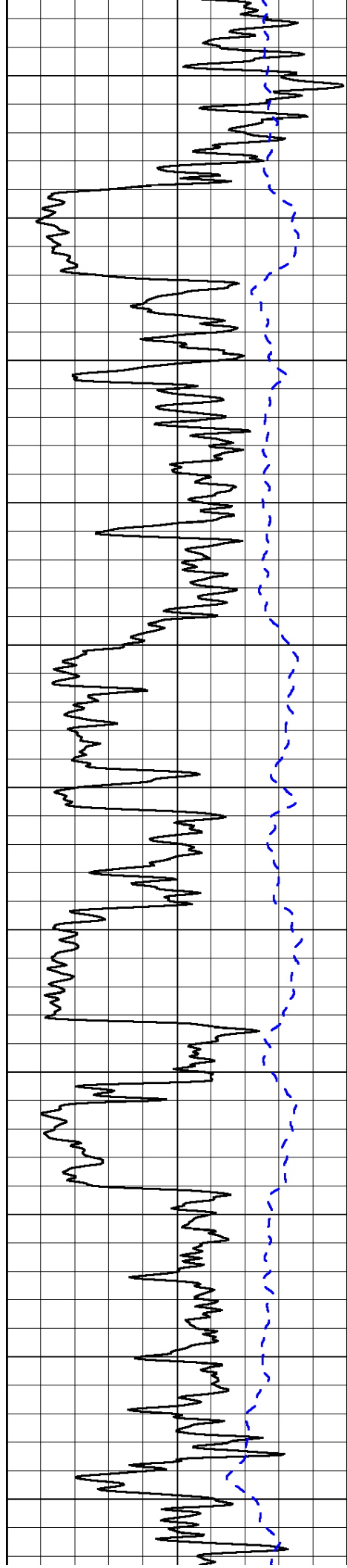
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Presentation Format: dil2in
Dataset Creation: Sat Feb 21 16:49:29 2015
Charted by: Depth in Feet scaled 1:600

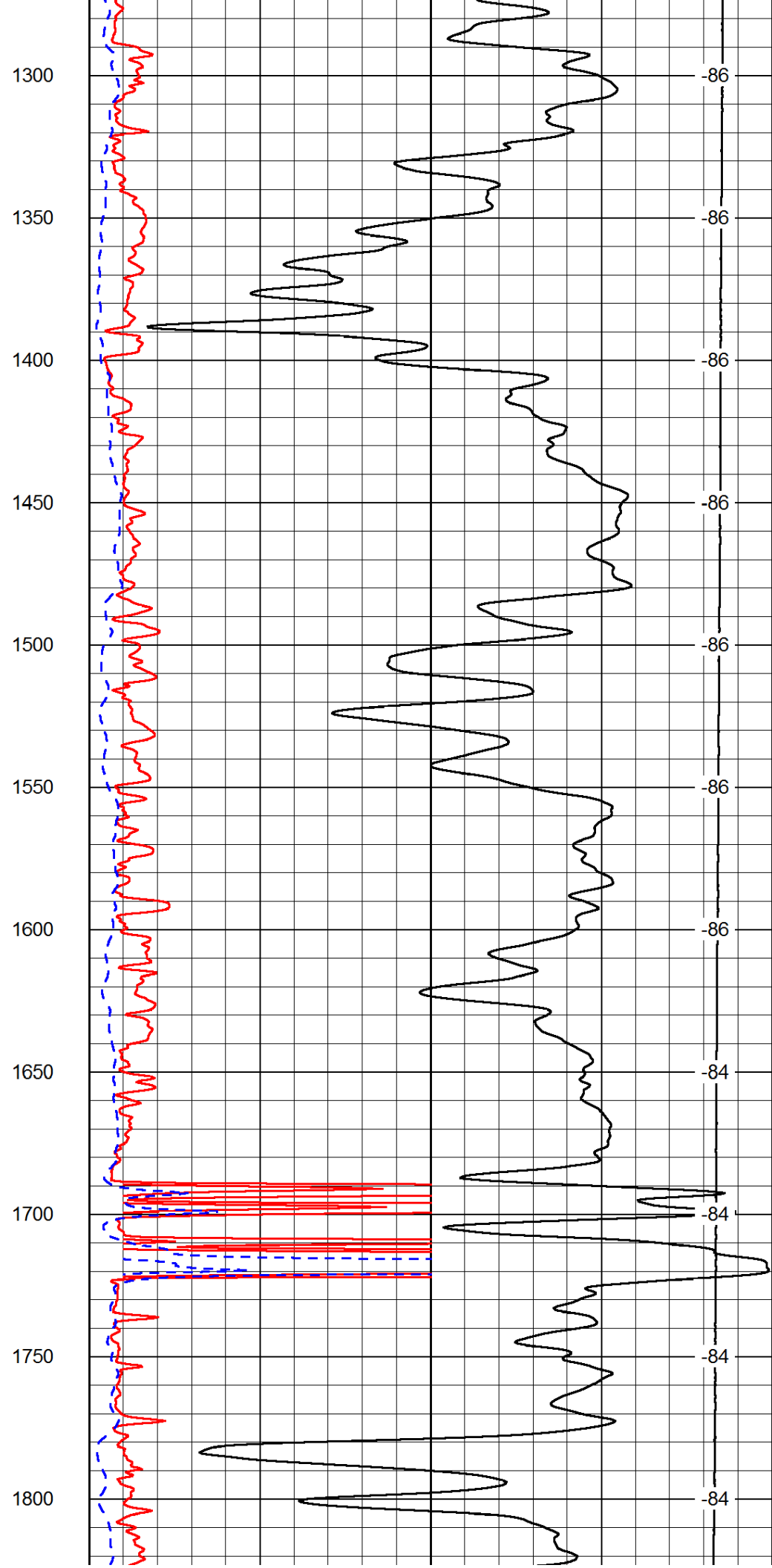
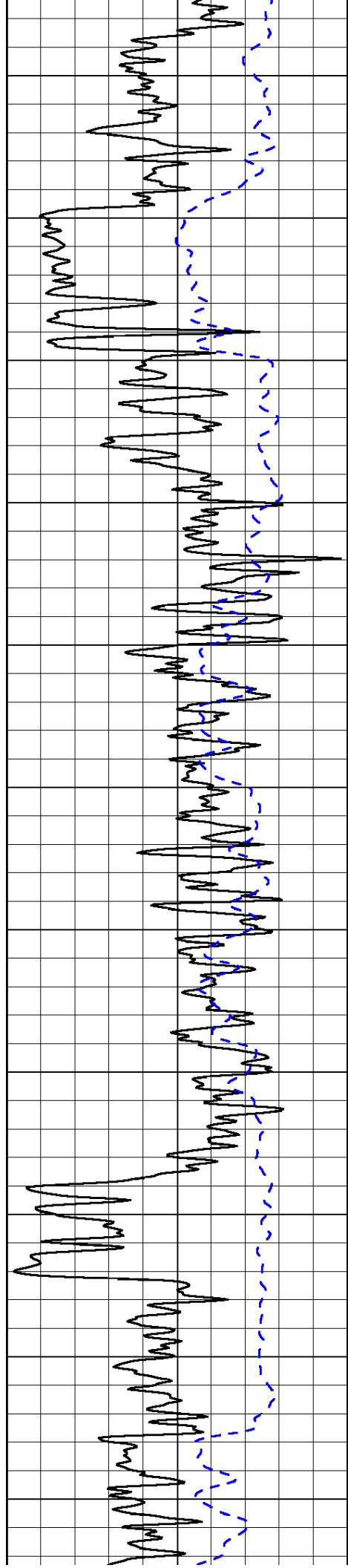
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-200	SP (mV)	0

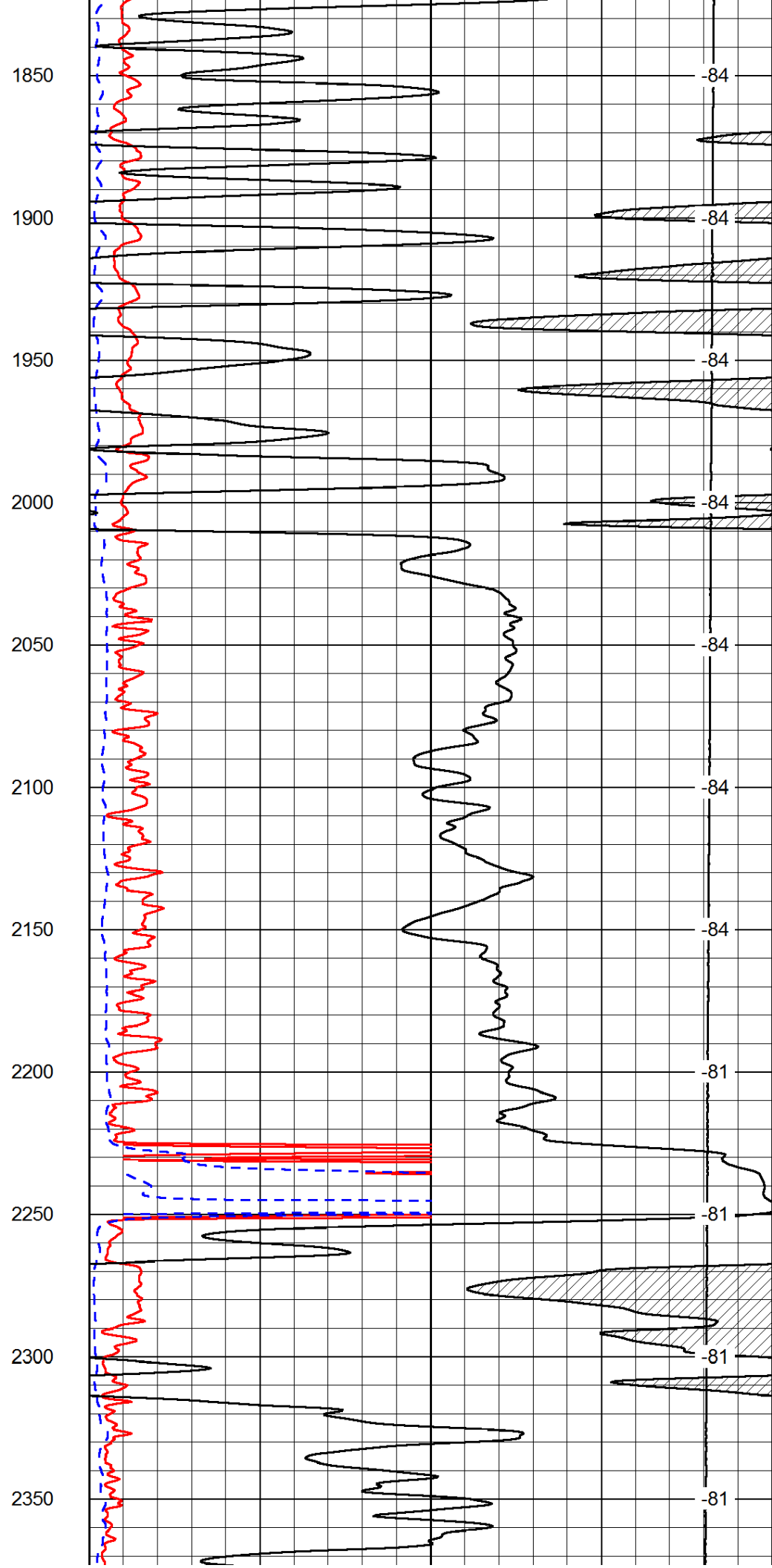
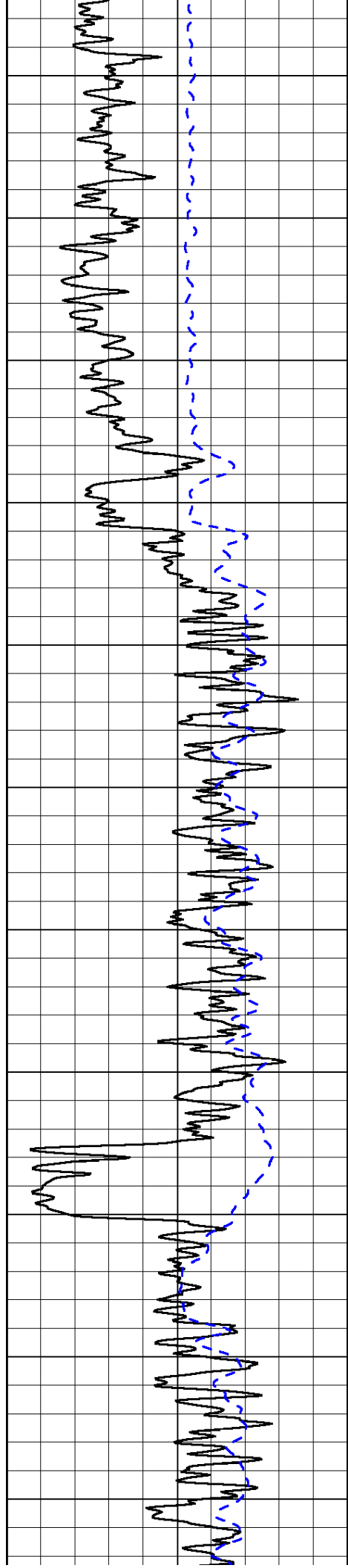
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0	Deep Resistivity	50
1000	Conductivity	0
15000	Line Tension	0
50	Shallow Resistivity	500
50	Deep Resistivity	500

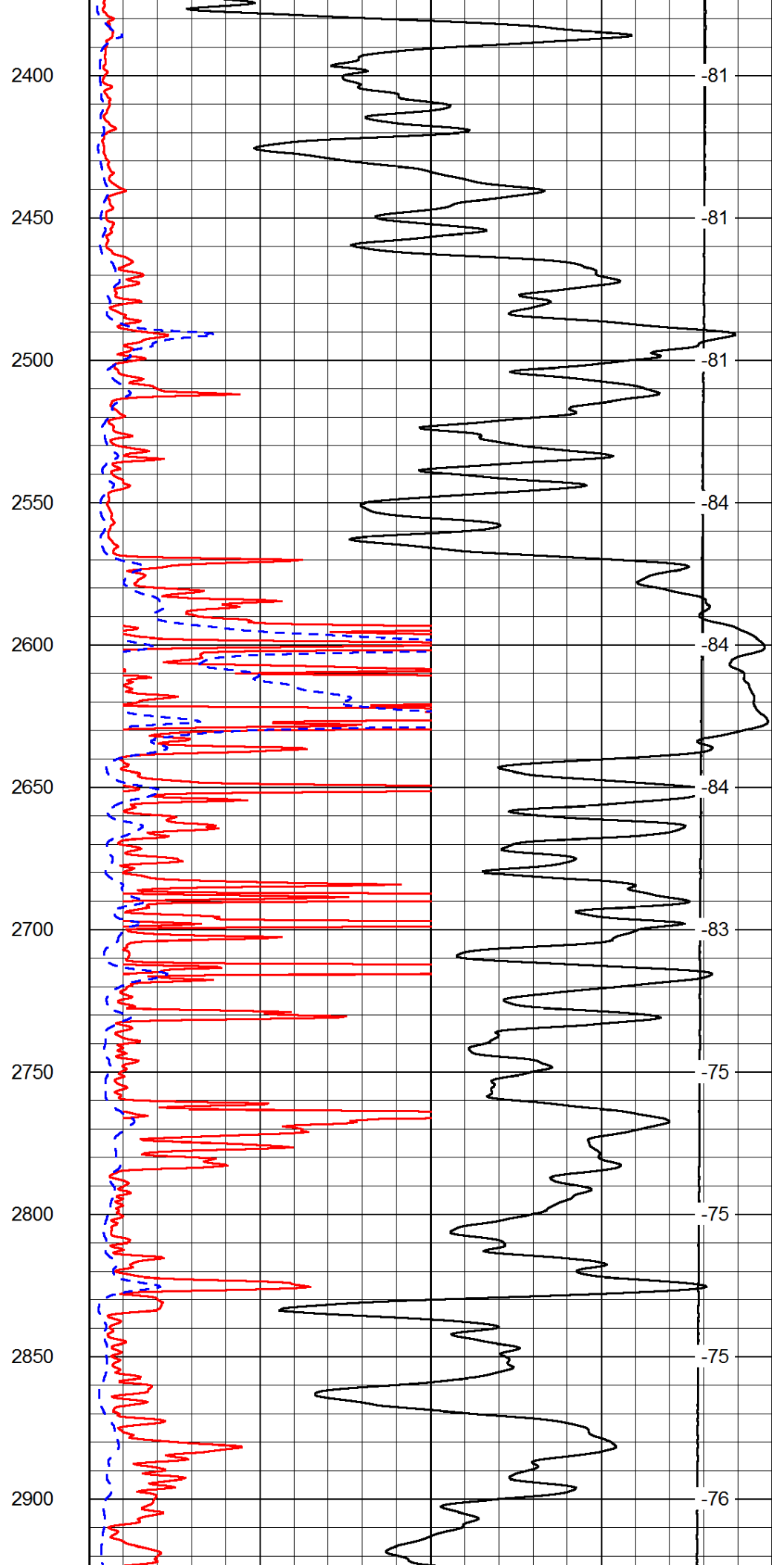
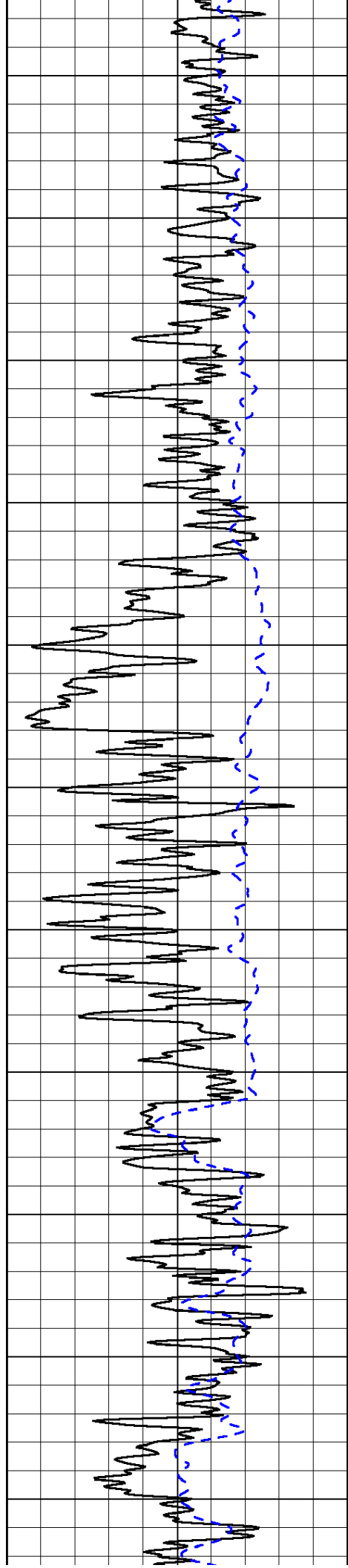
LSPD

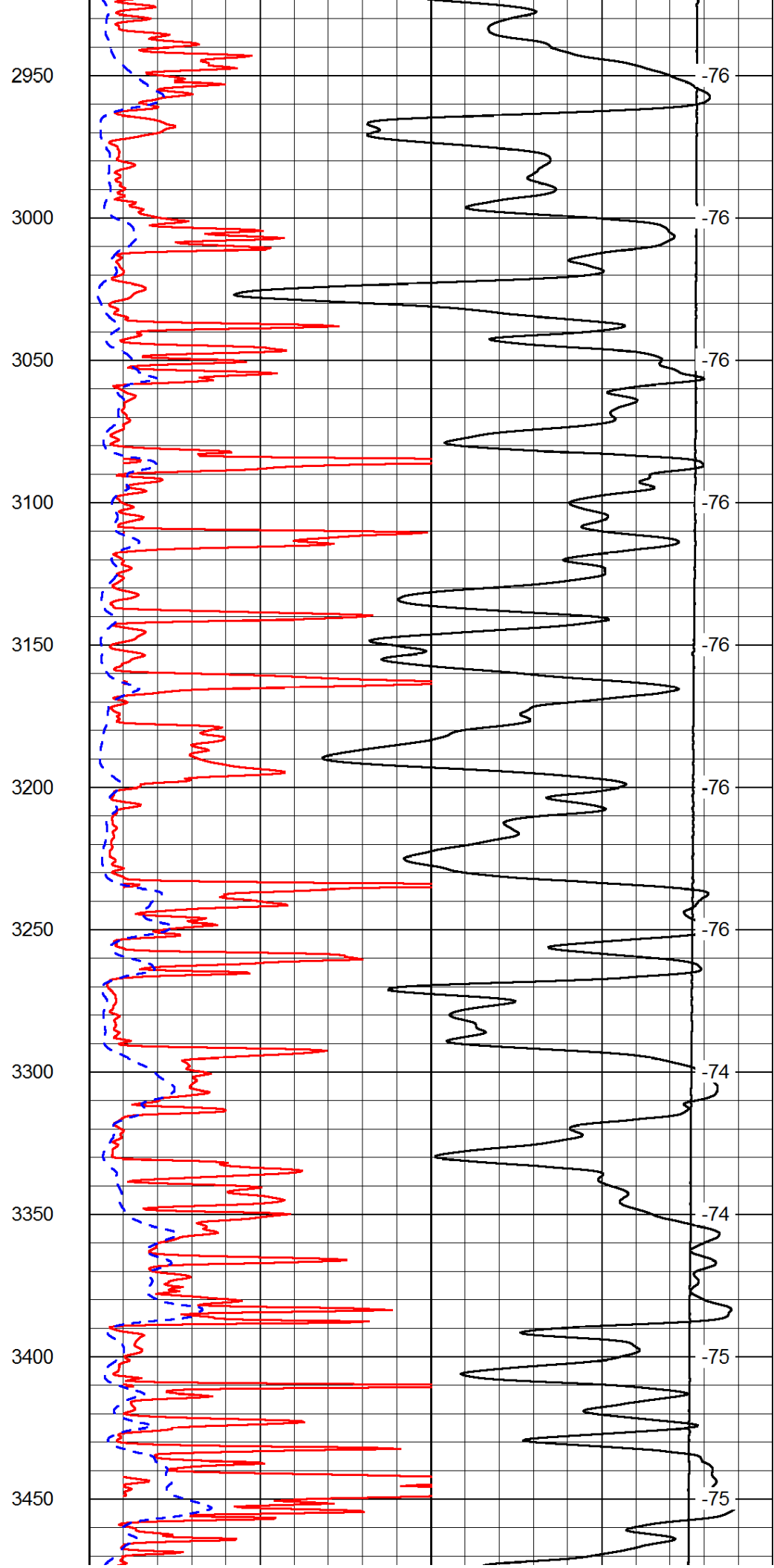
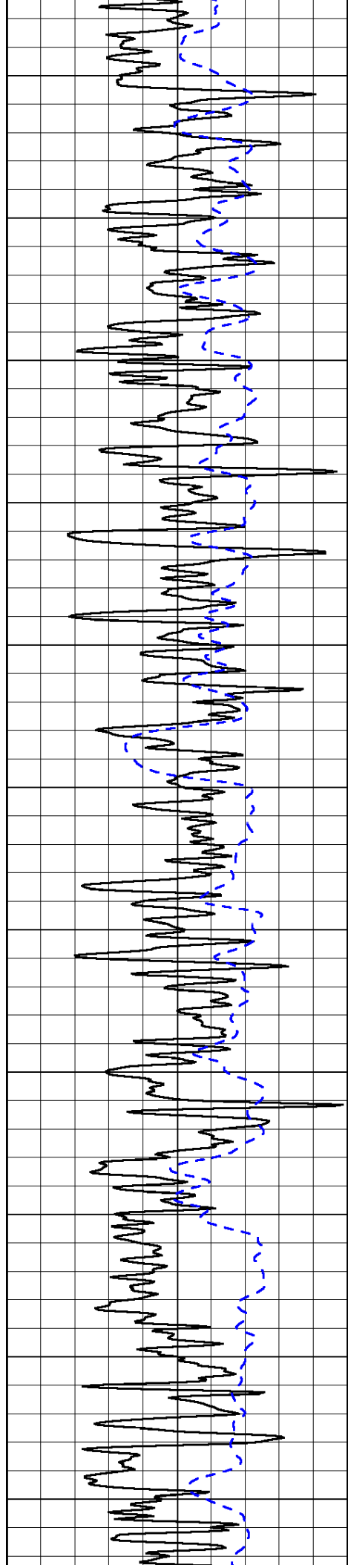


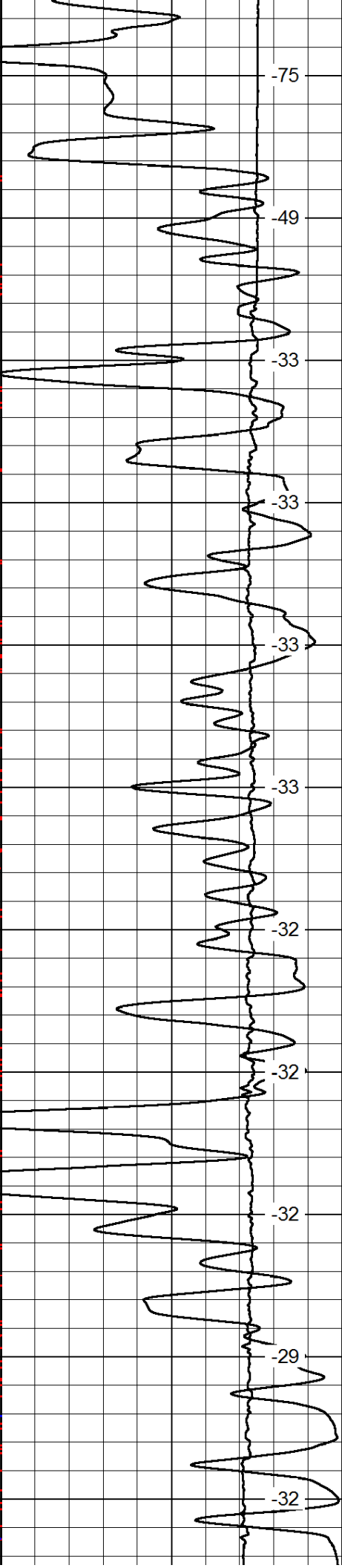
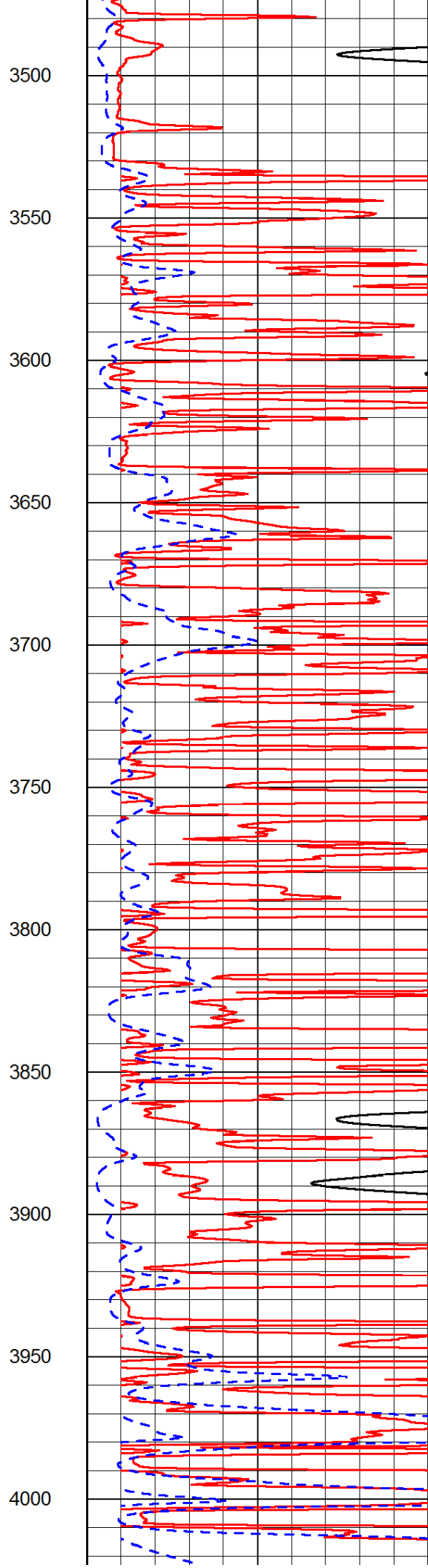
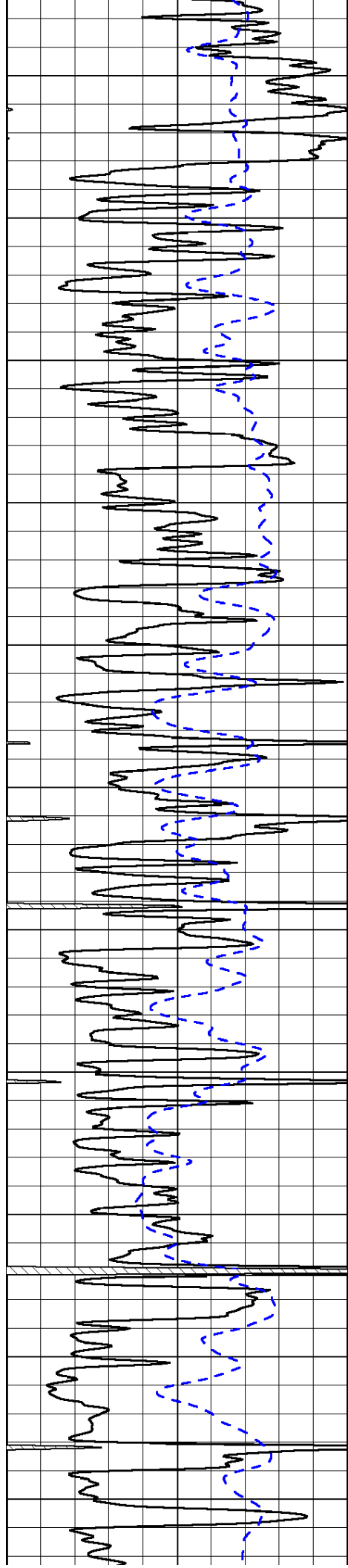


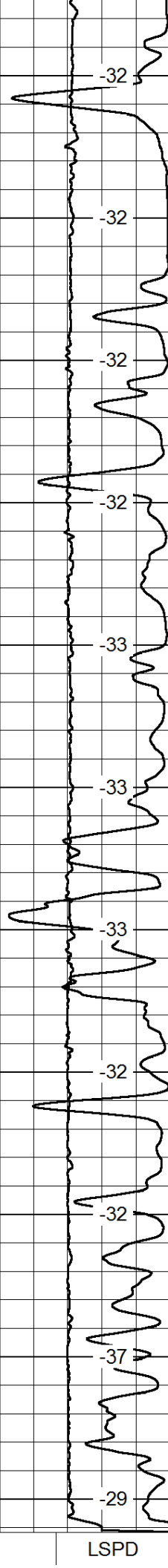
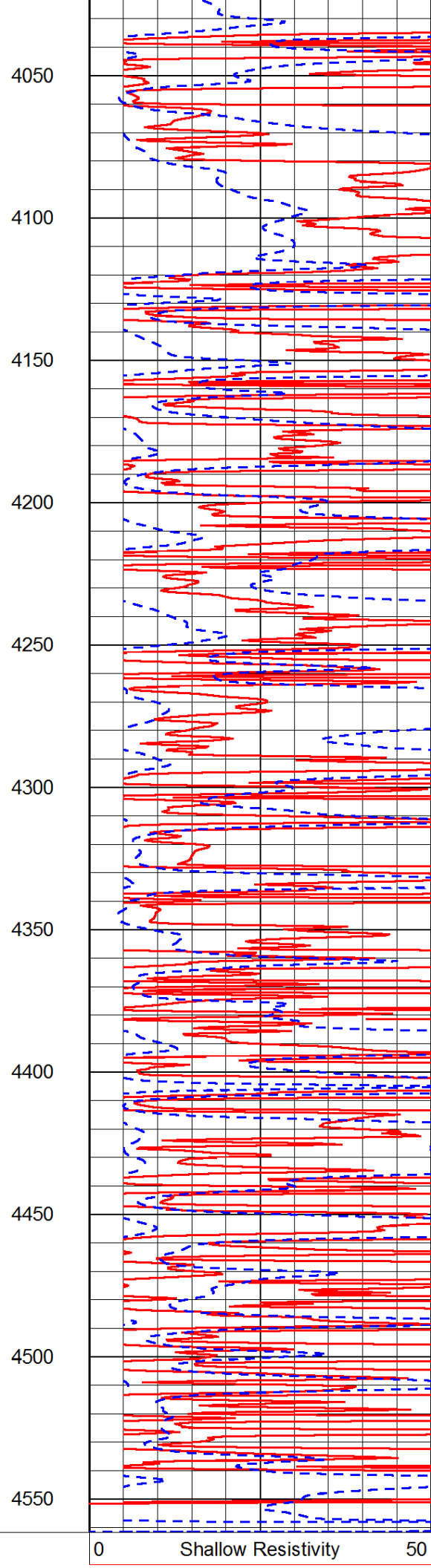
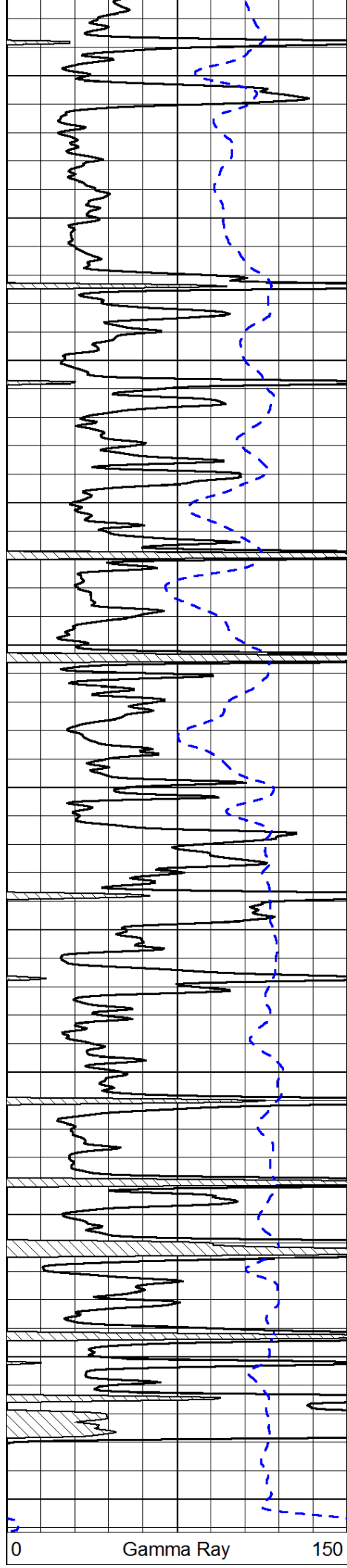








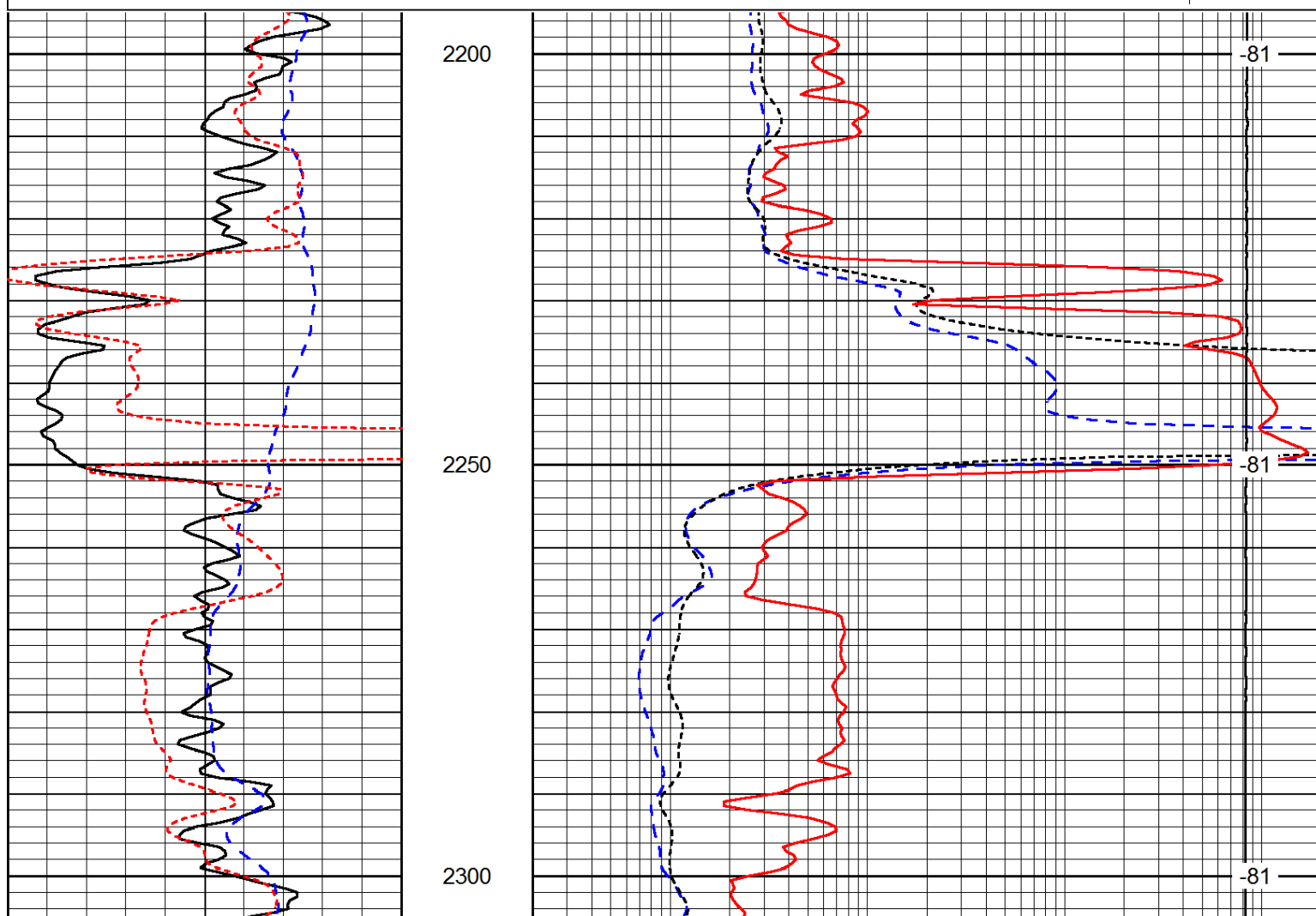




-200	SP (mV)	0
0	Deep Resistivity	50
1000	Conductivity	0
15000	Line Tension	0
50	Shallow Resistivity	500
50	Deep Resistivity	500

Database File: c:\warrior\data\larsen_buena vista #1-18\lrsnhd.db
 Dataset Pathname: dil\lrsnstk
 Presentation Format: dil
 Dataset Creation: Sat Feb 21 16:49:29 2015
 Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150	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



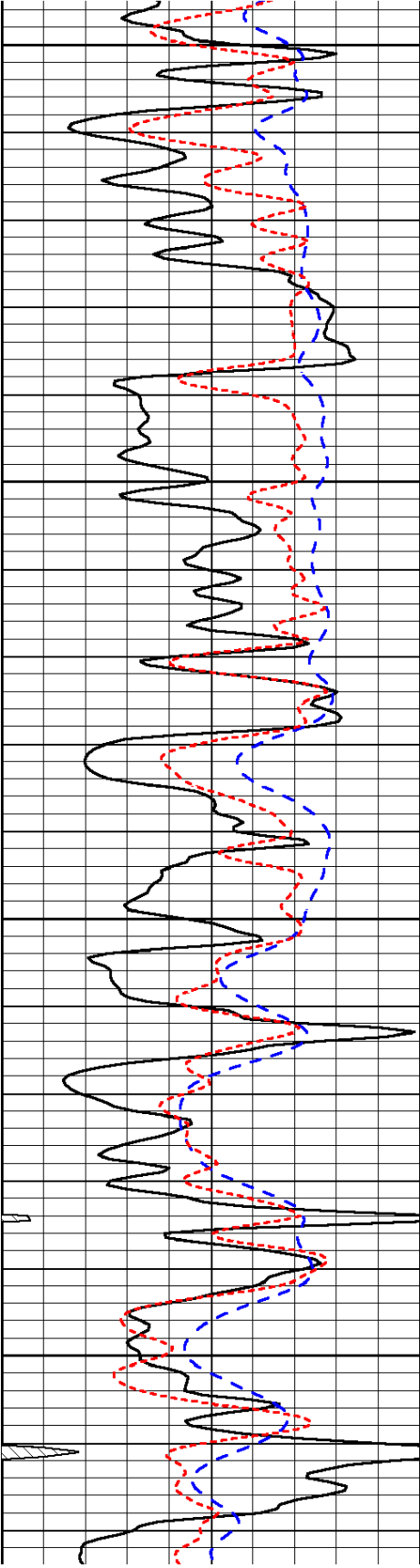
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-200	SP (mV)	0	0.2	Medium Resistivity	2000
-160	RxoRt	40	0.2	Shallow Resistivity	2000
			15000	Line Tension	0
					LSPD

Database File: c:\warrior\data\larsen_buena vista #1-18\lrsnhd.db

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

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

LSPD

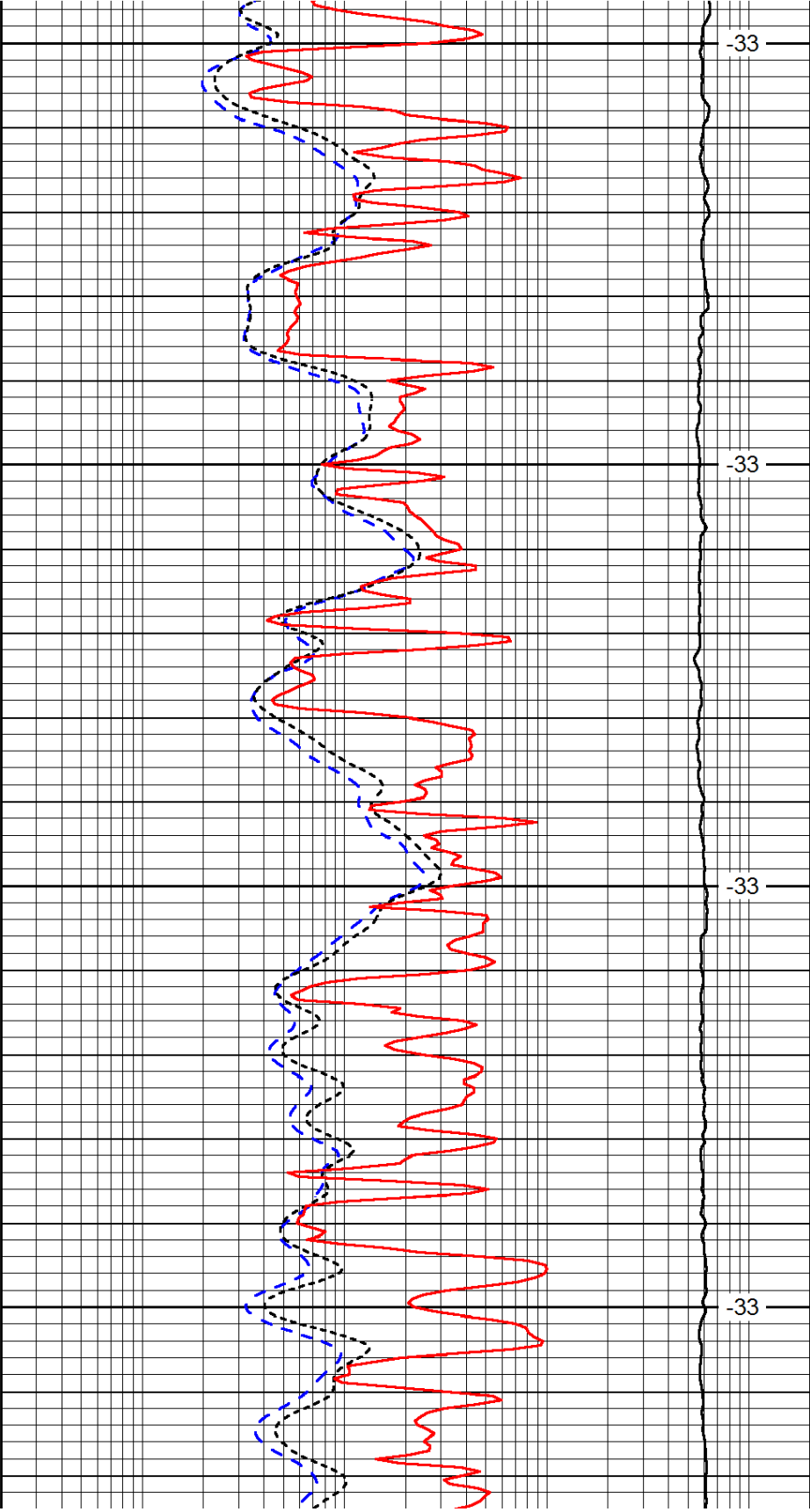


3600

3650

3700

3750

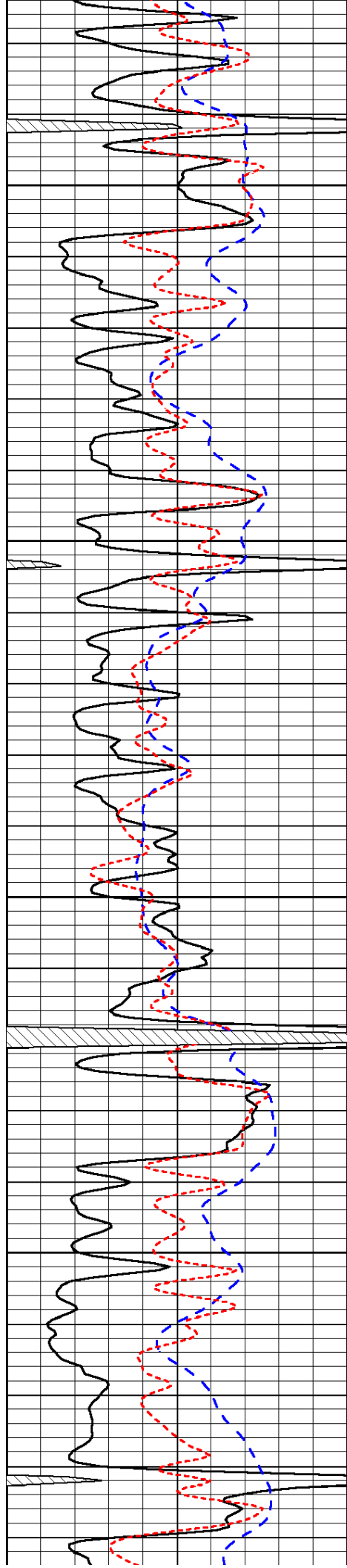


-33

-33

-33

-33

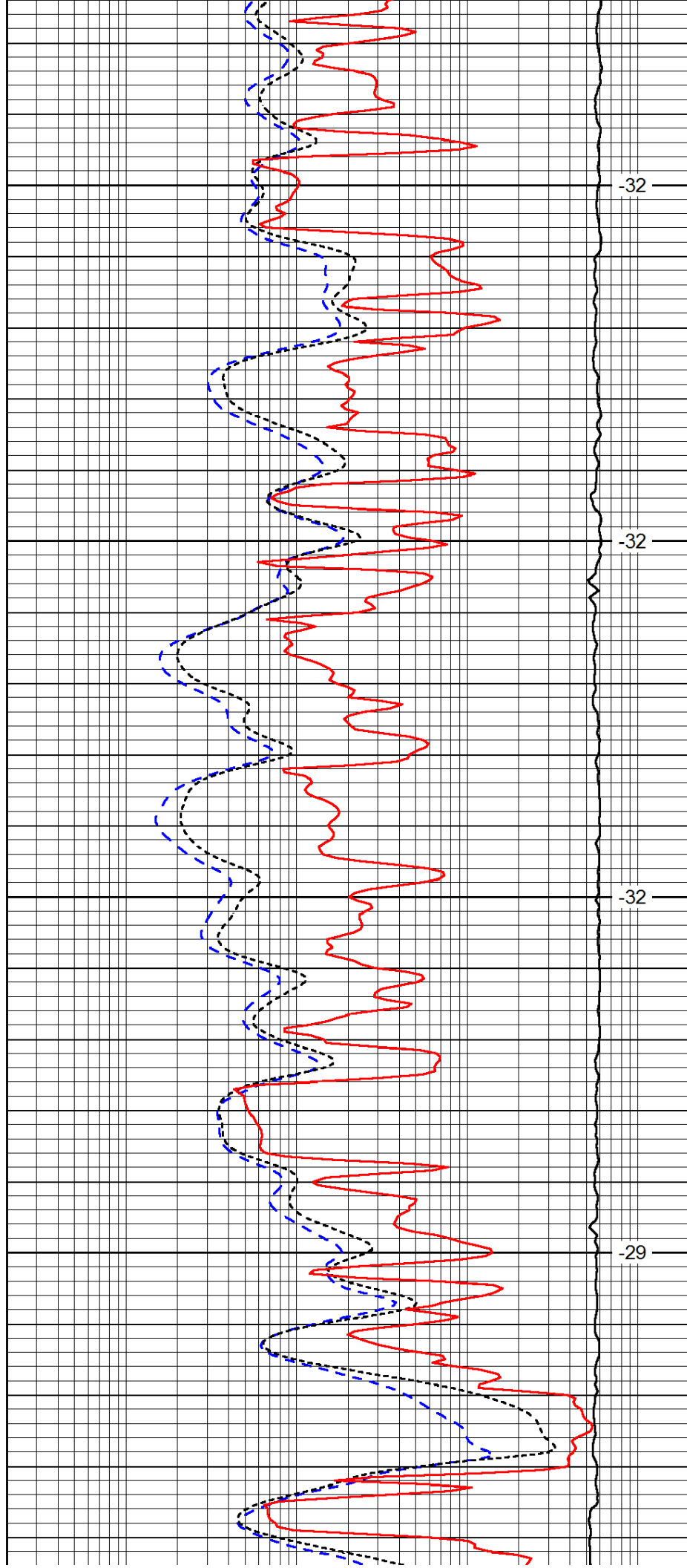


3800

3850

3900

3950

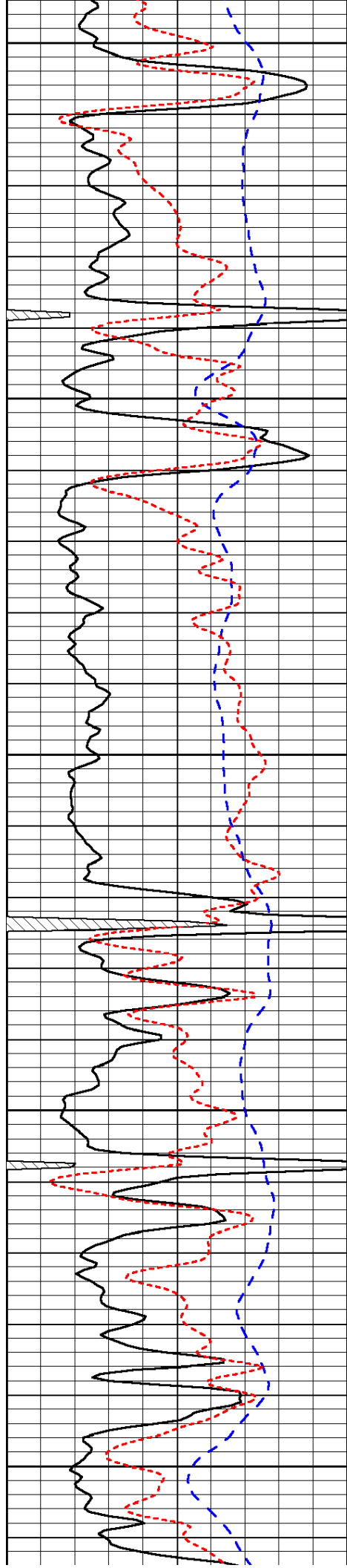


-32

-32

-32

-29



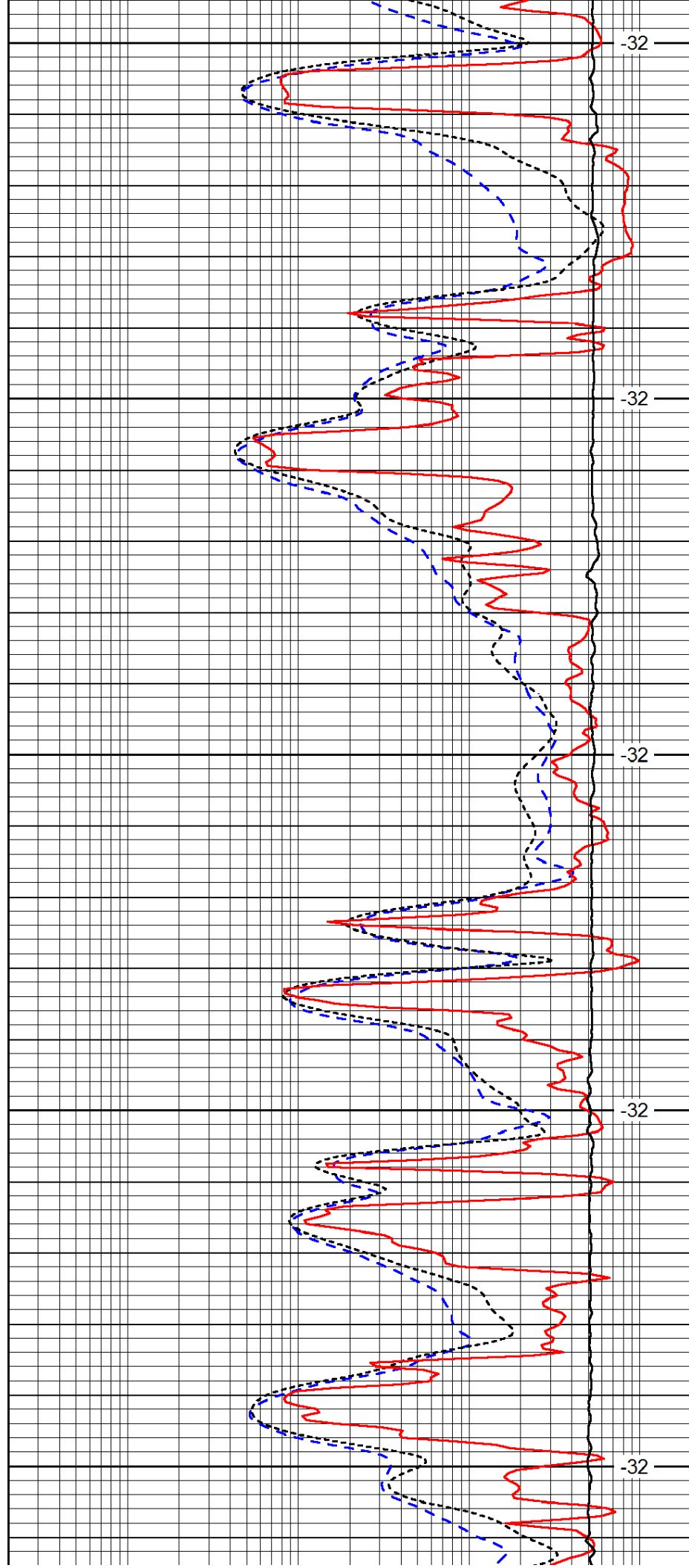
4000

4050

4100

4150

4200



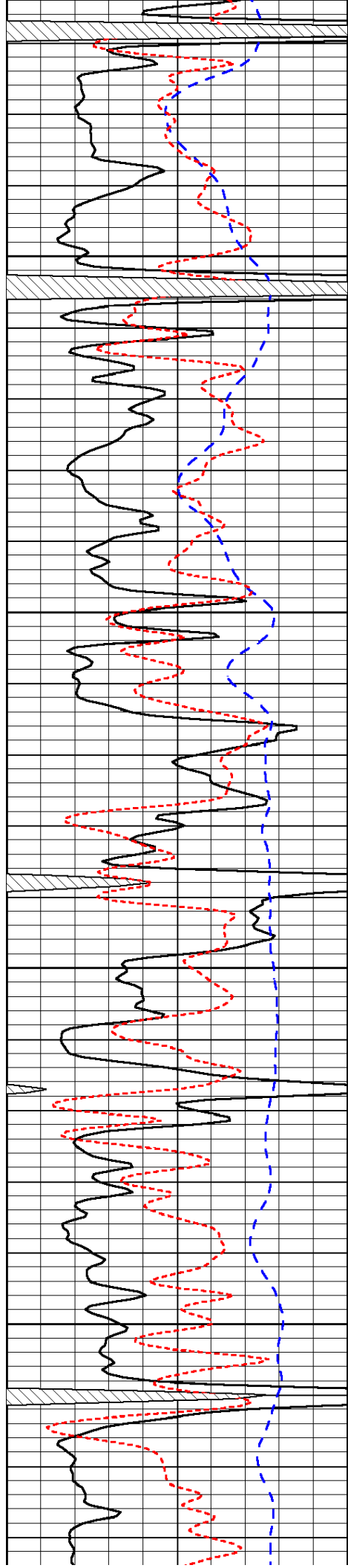
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-32

-32

-32

-32

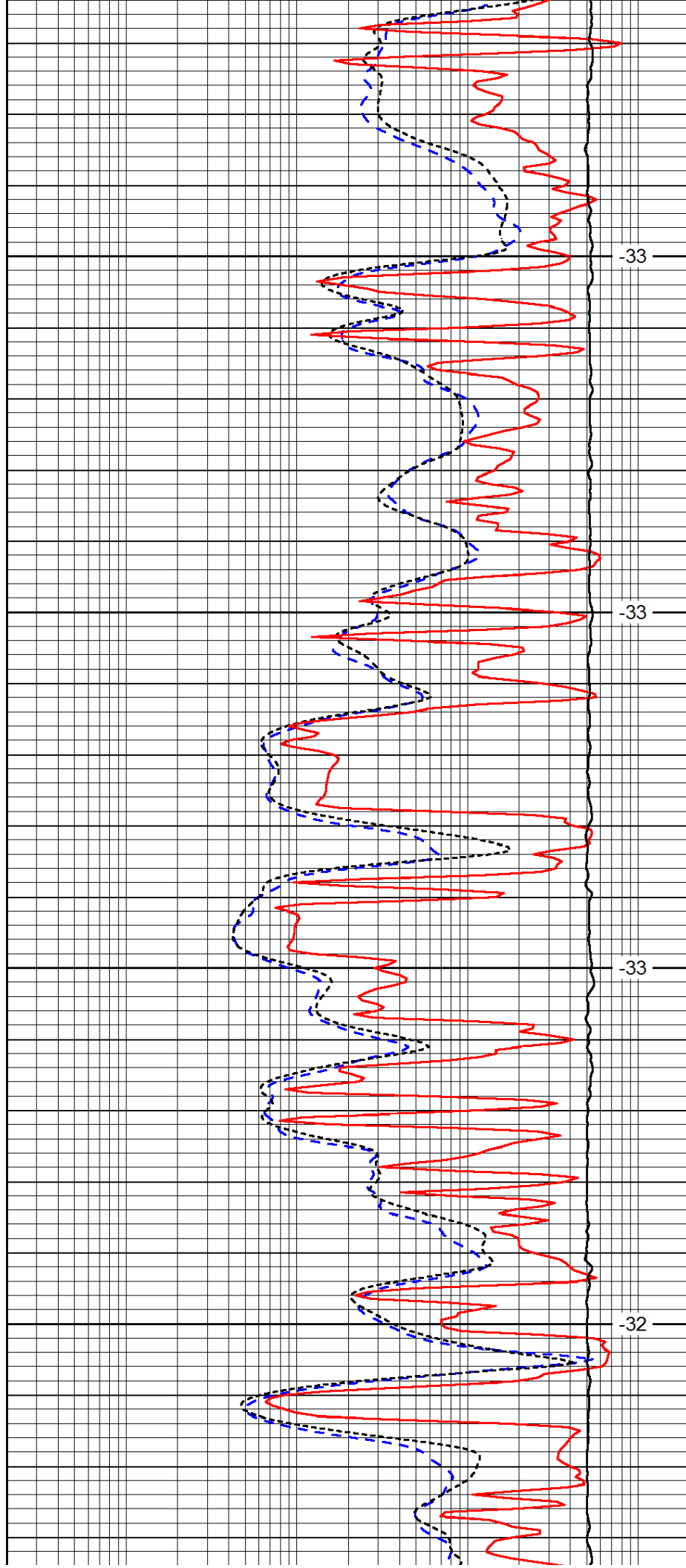


4250

4300

4350

4400

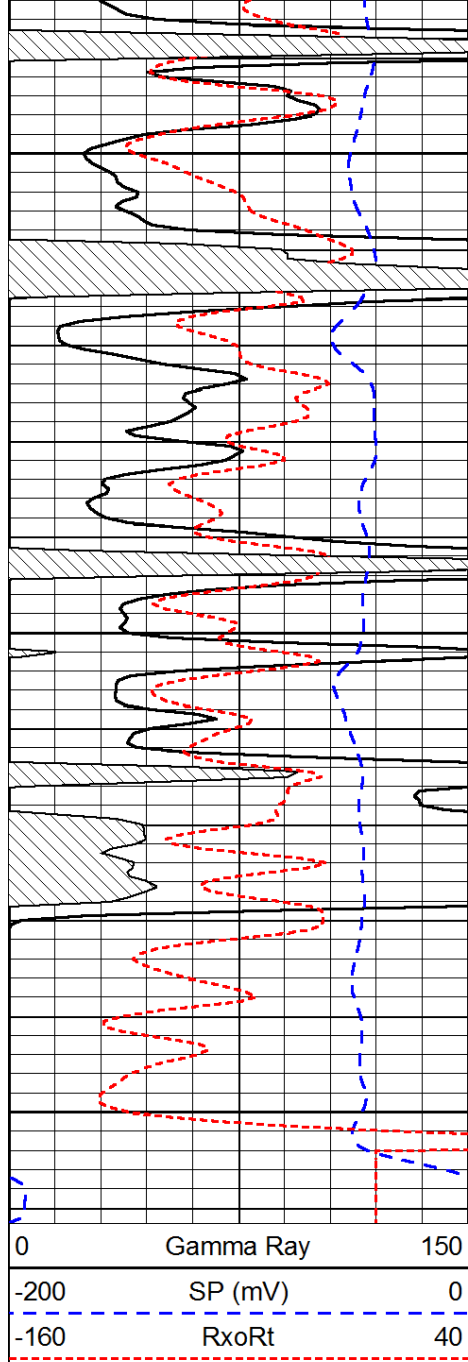


-33

-33

-33

-32

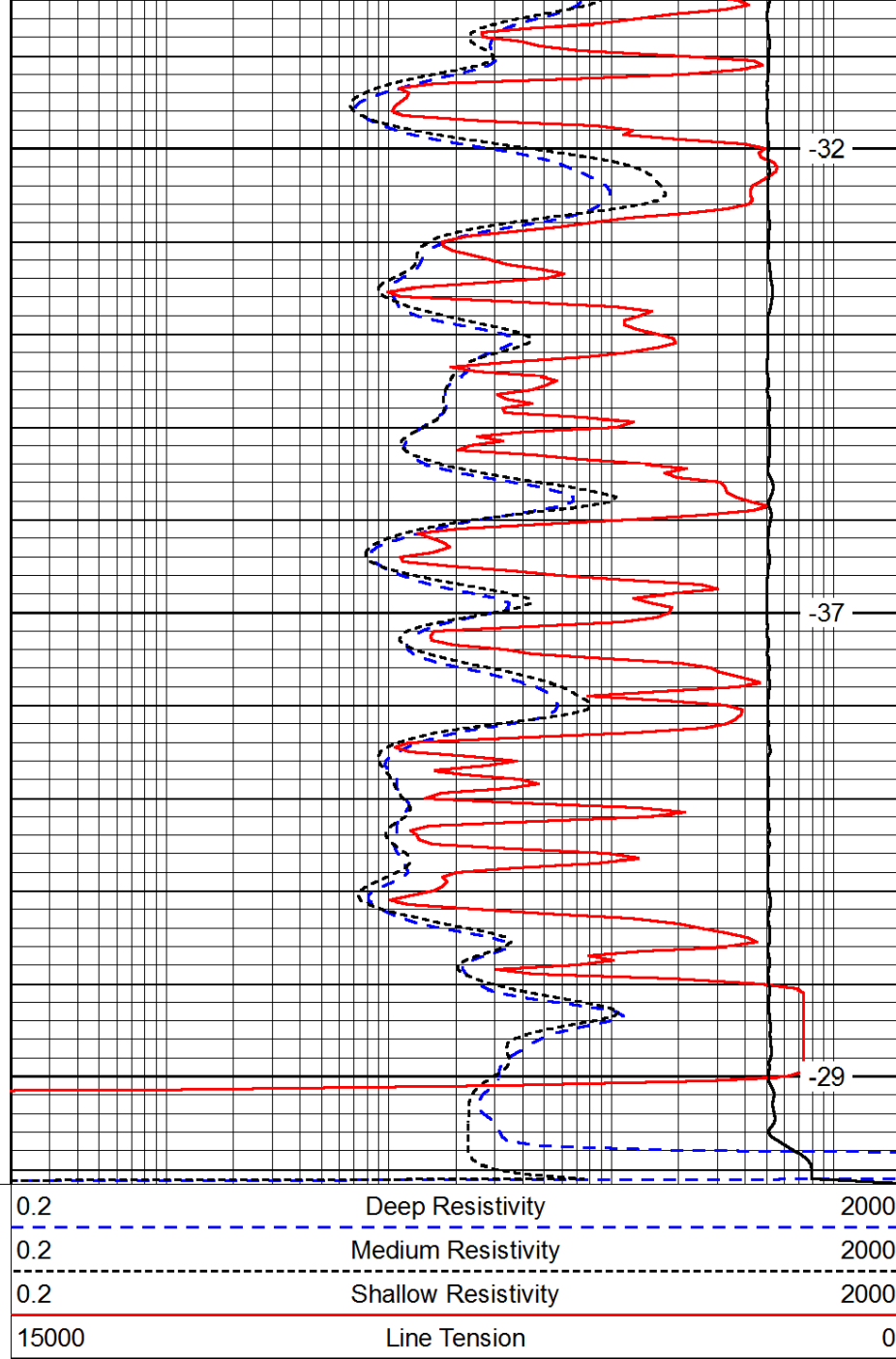


4450

4500

4550

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



-32

-37

-29

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

LSPD