



Pioneer Energy Services

Dual Induction Log

API No.

15-135-25,822-00-00

Company American Warrior, Inc.

Well Whipple C No. 5

Field Delos Southeast

County Ness

State

Kansas

Location

335' FNL & 1707' FEL

Sec: 8

Twp: 18s

Rge: 26w

Permanent Datum Ground Level Elevation 2500
Log Measured From Kelly Bushing 11 Ft. Above Perm. Datum
Drilling Measured From Kelly bushing

Other Services
CNL/CDL
MEL
Elevation
K.B. 2511
D.F.
G.L. 2500

Date

10/22/2014

Run Number

One

Depth Driller

4650

Depth Logger

4652

Bottom Logged Interval

4651

Top Log Interval

200

Casing Driller

8.625 @ 215

Casing Logger

208

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

4000

Density / Viscosity

9.4 56

pH / Fluid Loss

10.0 8.0

Source of Sample

Flowline

Rm @ Meas. Temp

.85 @ 78

Rmf @ Meas. Temp

.64 @ 78

Rmc @ Meas. Temp

1.15 @ 78

Source of Rmf / Rmc

Charts

Rm @ BHT

.54 @ 123

Operating Rig Time

4 Hours

Max Rec. Temp. F

123

Equipment Number

108

Location

Hays

Recorded By

D. Fischer

Witnessed By

J. Long

Luke Thompson

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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

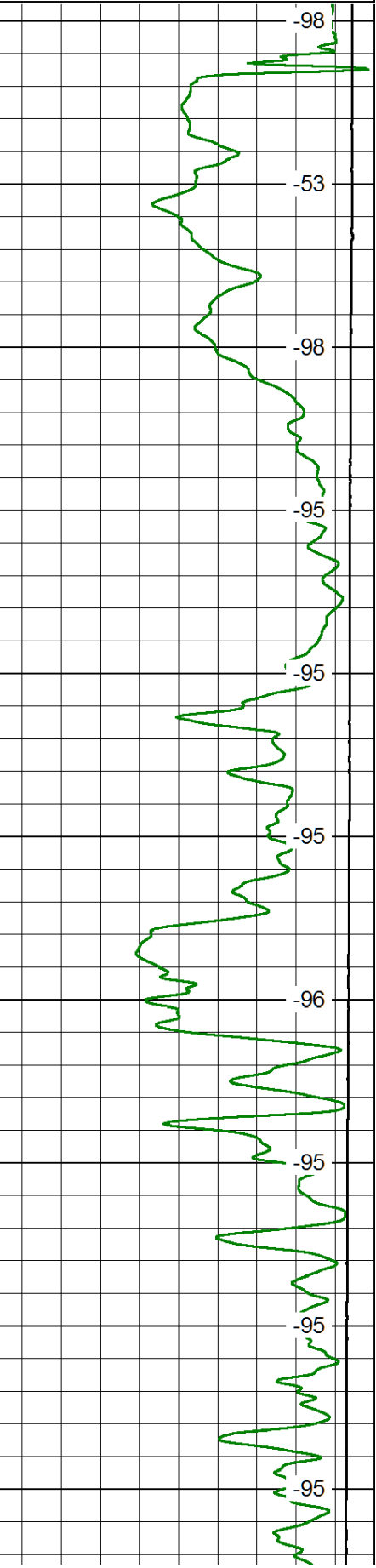
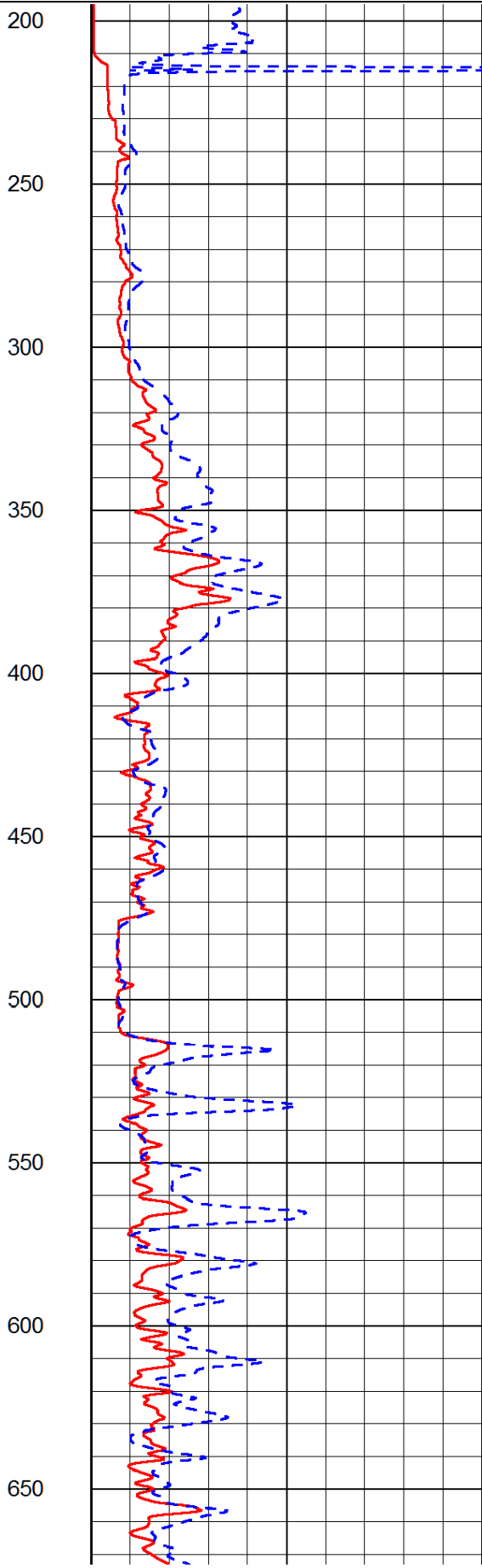
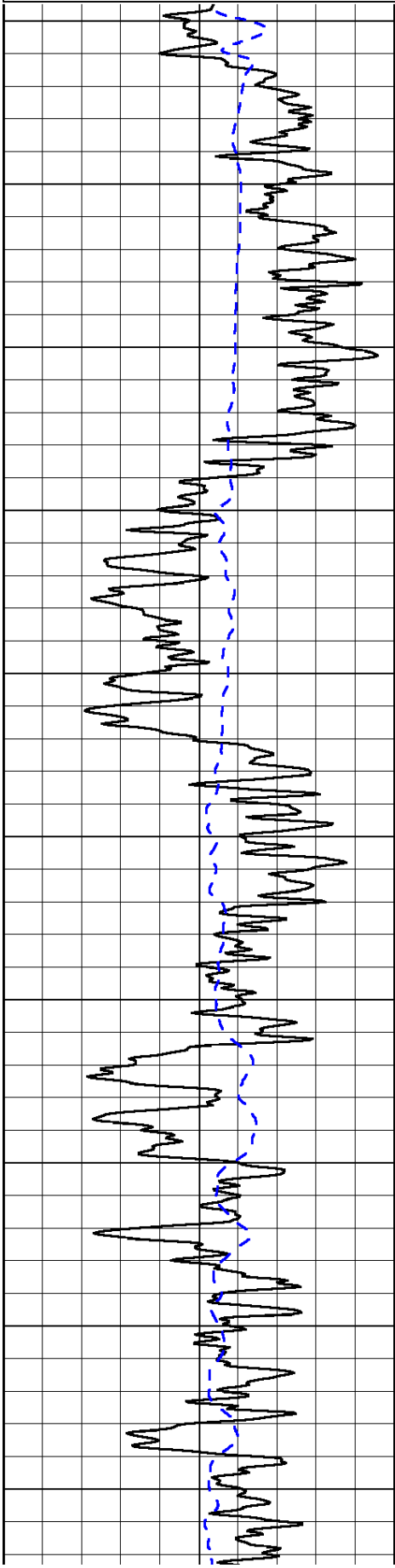
Beeler Ks., 1/4 West to C Rd., 3 1/4 North, West Into.

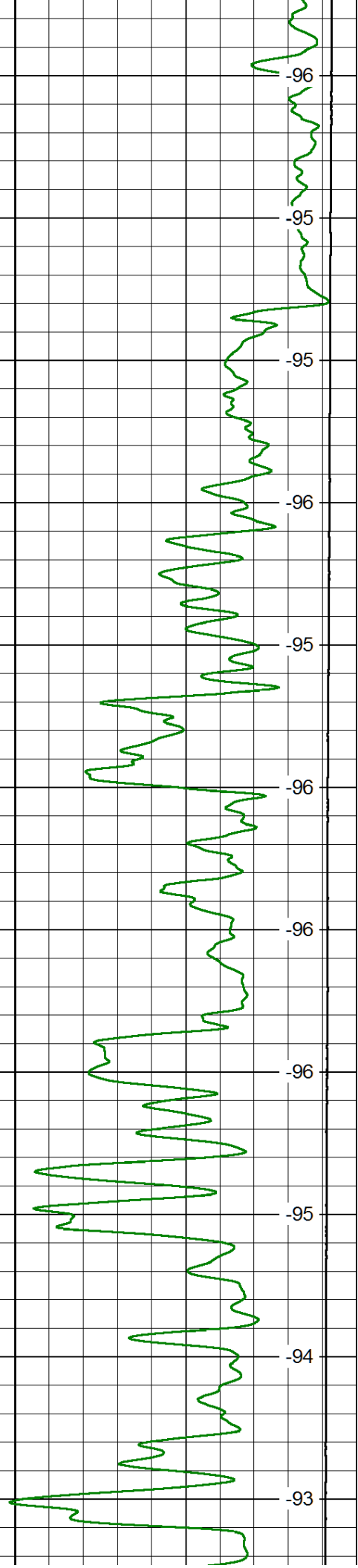
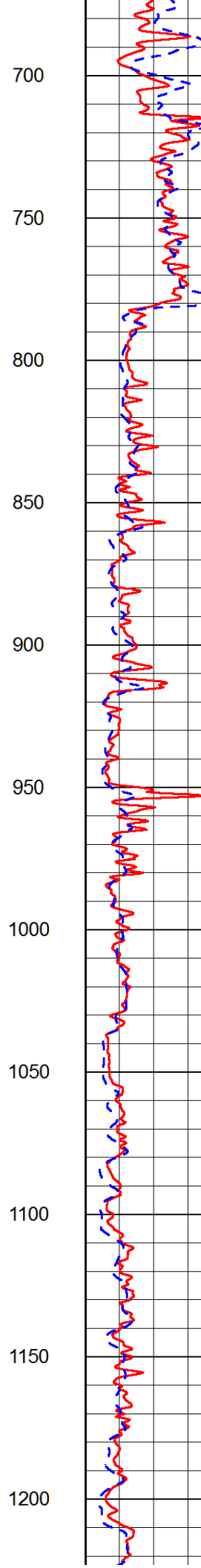
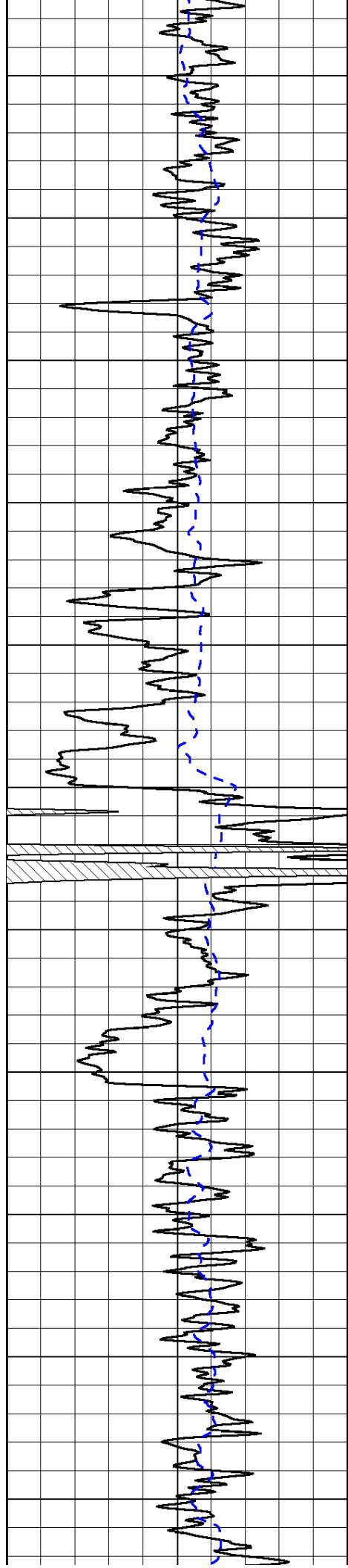
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Presentation Format: dil2in
Dataset Creation: Thu Oct 23 07:59:36 2014
Charted by: Depth in Feet scaled 1:600

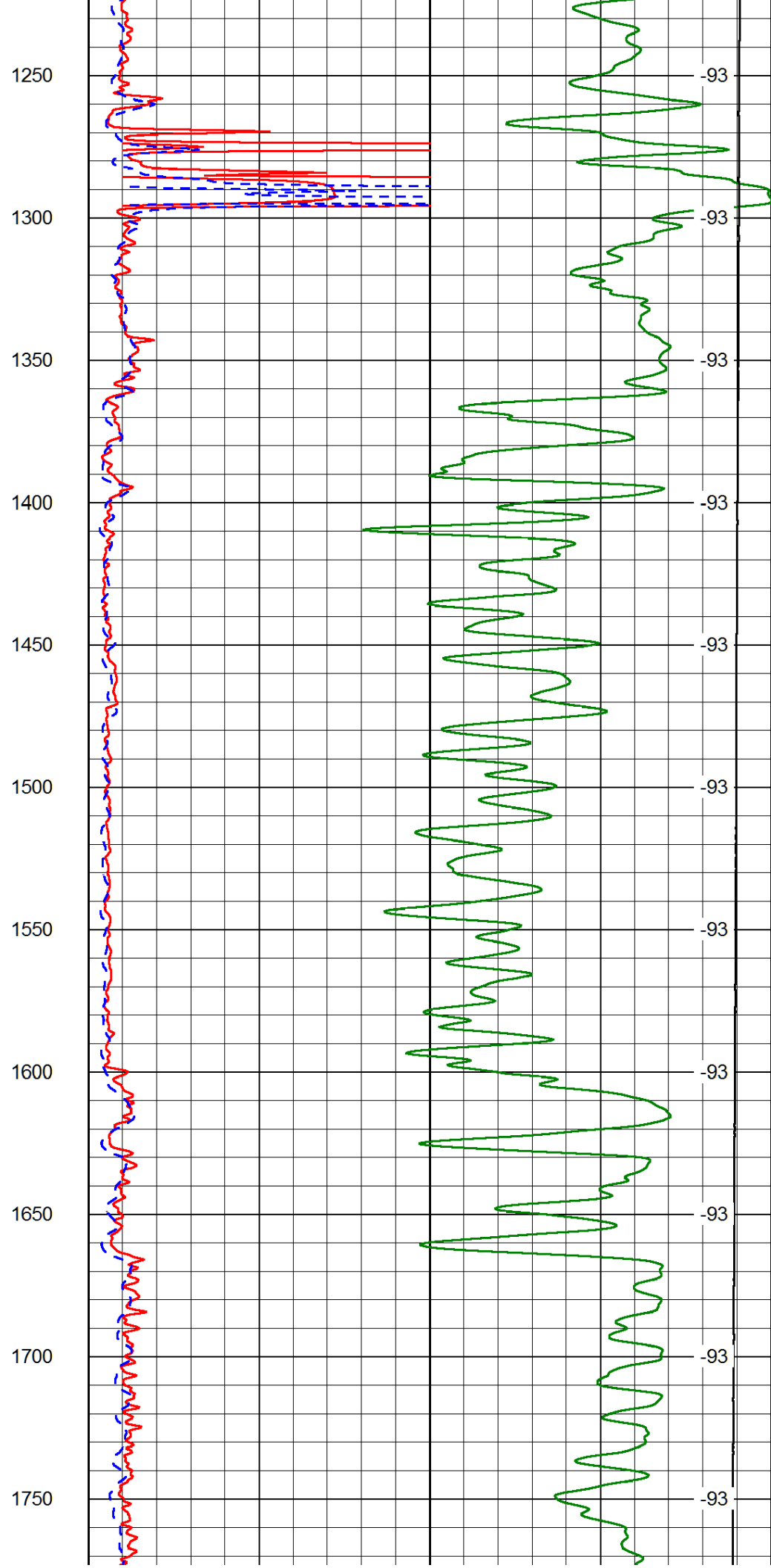
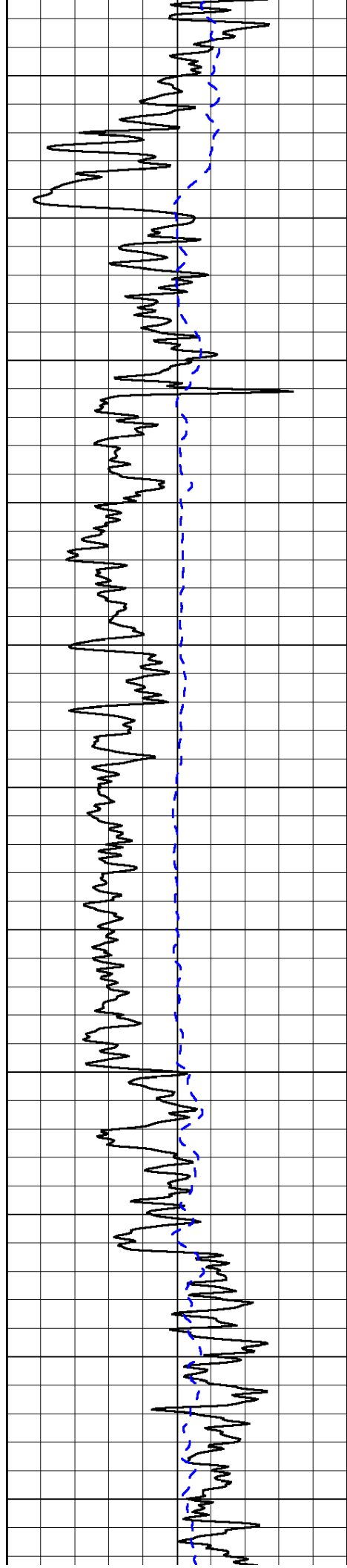
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-200	SP (mV)	0

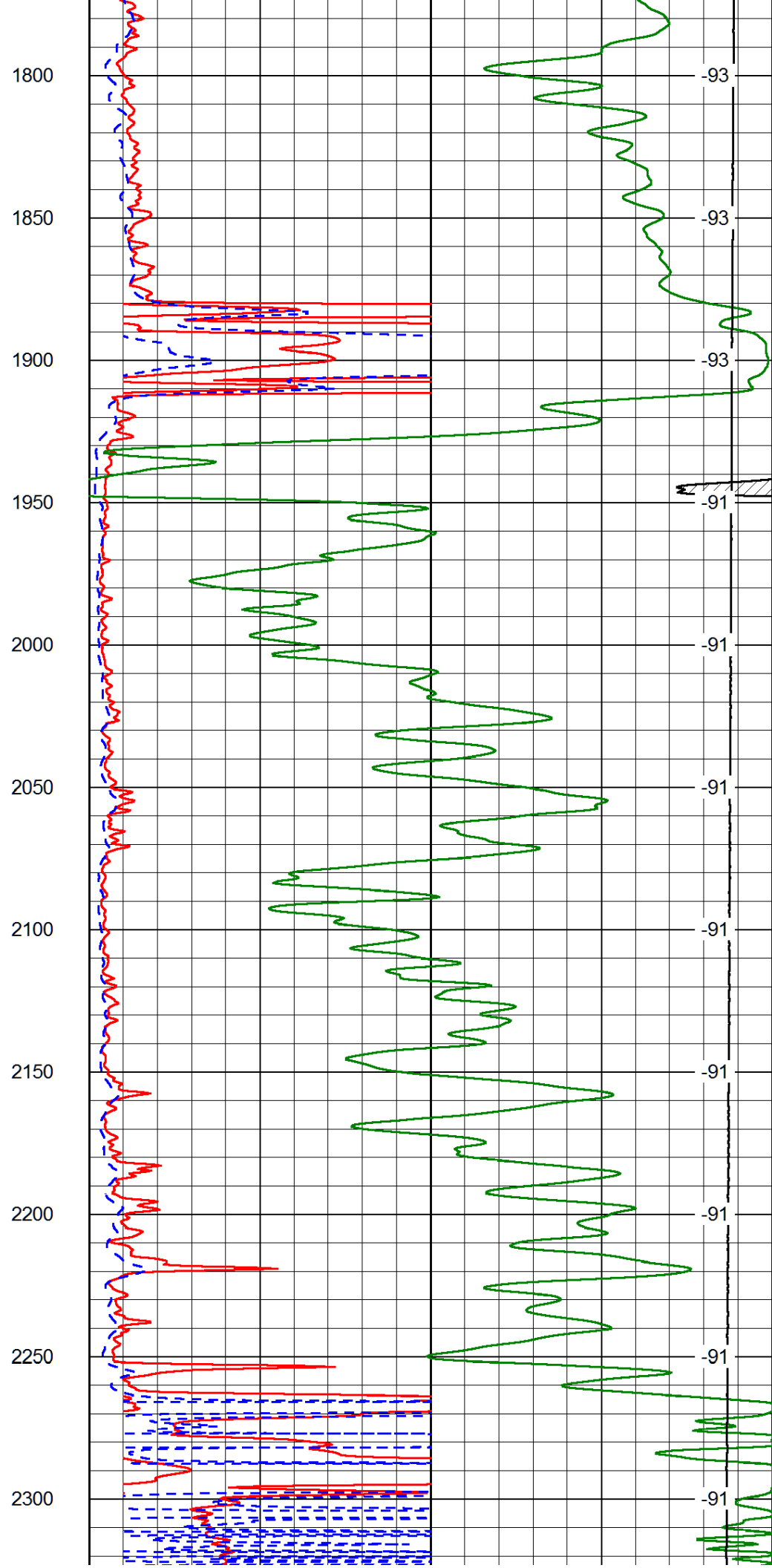
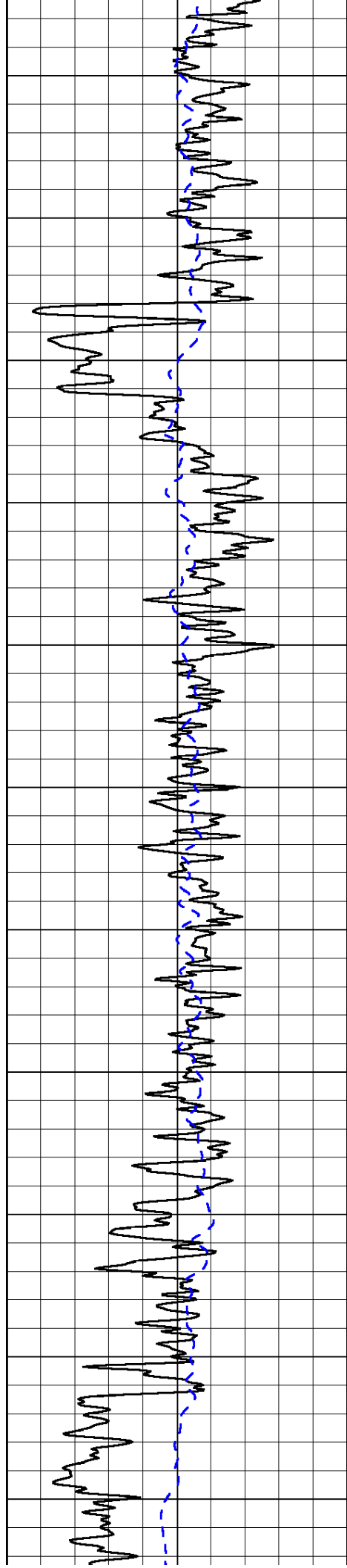
0	Shallow Resistivity	50
0	Deep Resistivity	50
1000	Conductivity	0
15000	Line Tension	0
50	Shallow Resistivity	500
50	Deep Resistivity	500

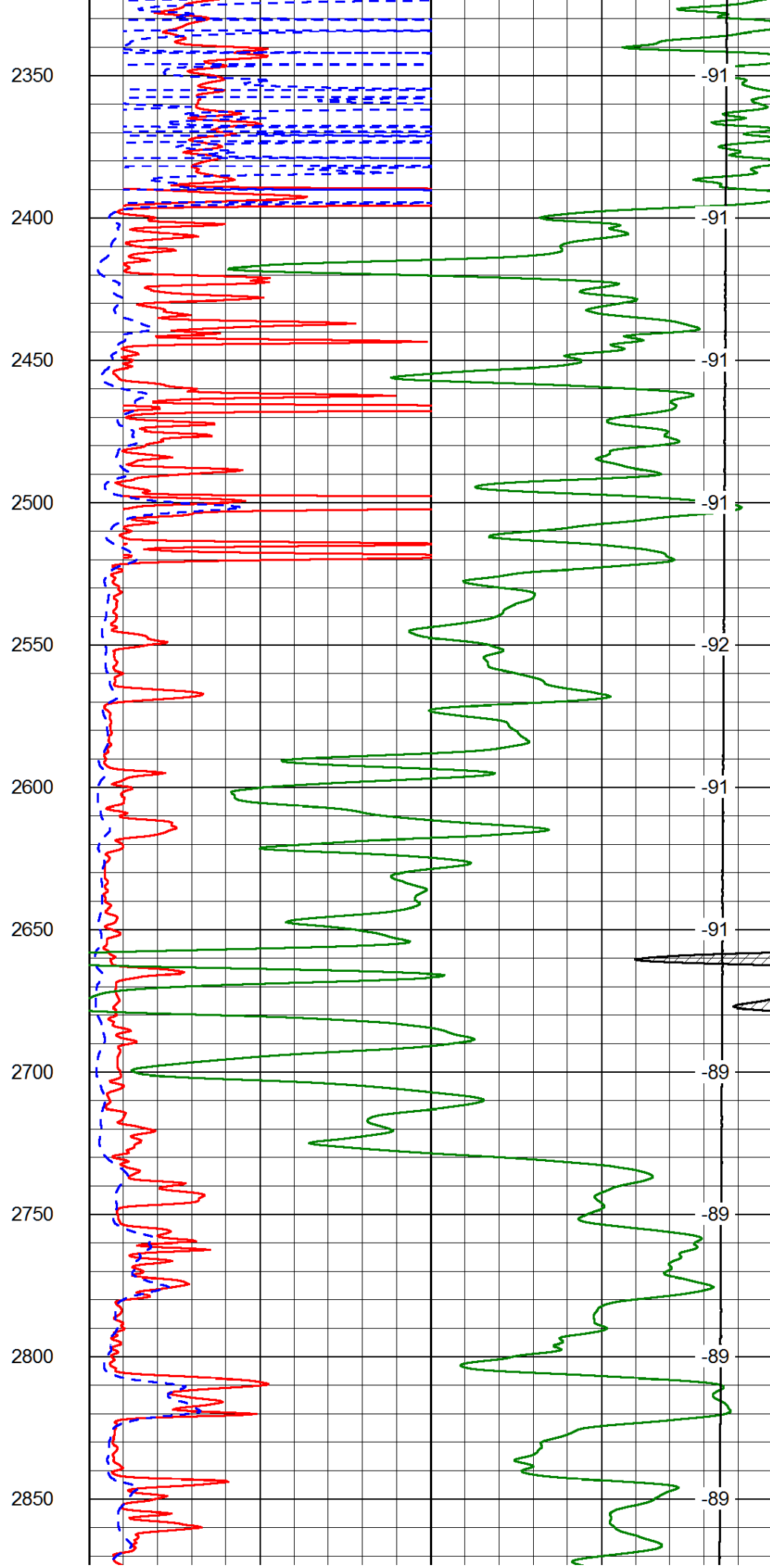
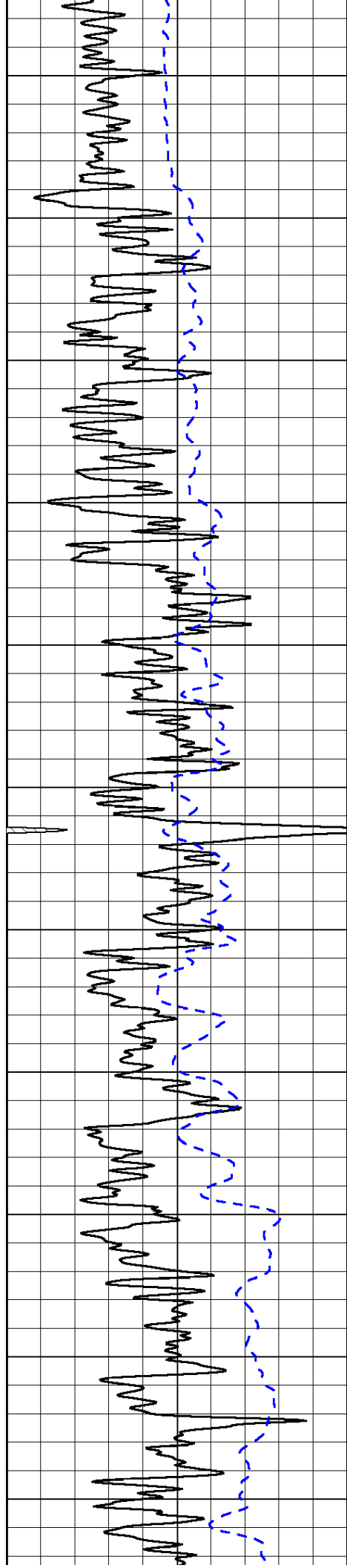
LSPD
0
0

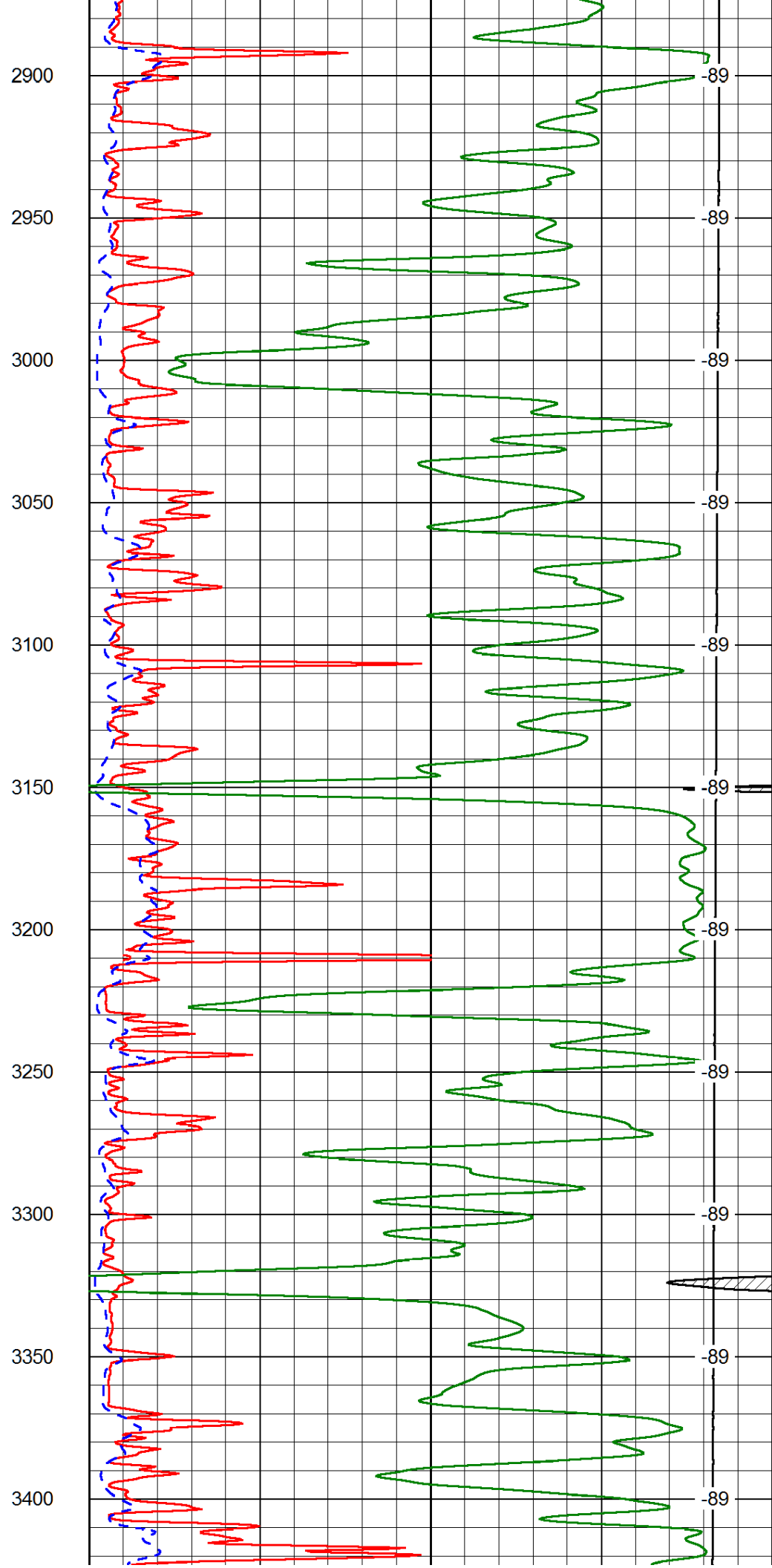
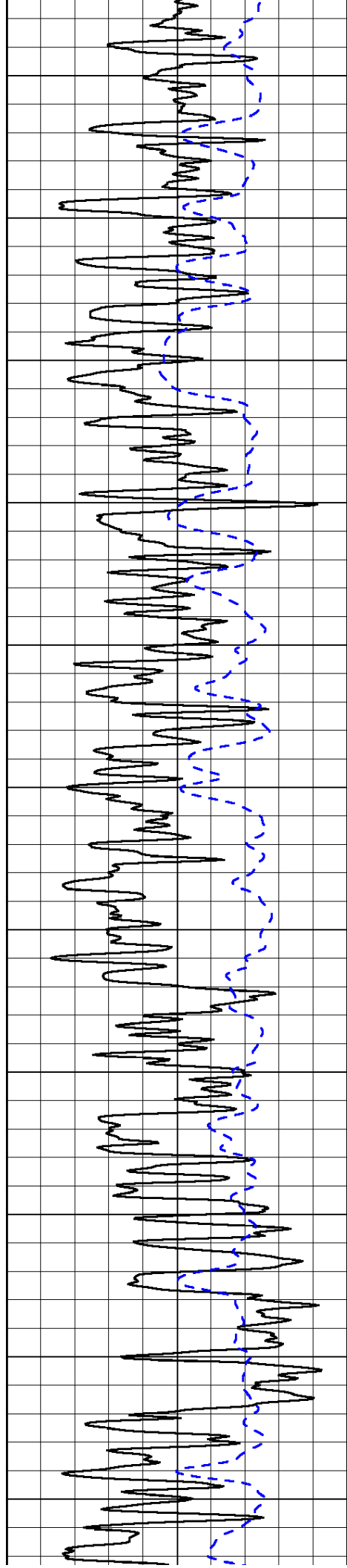


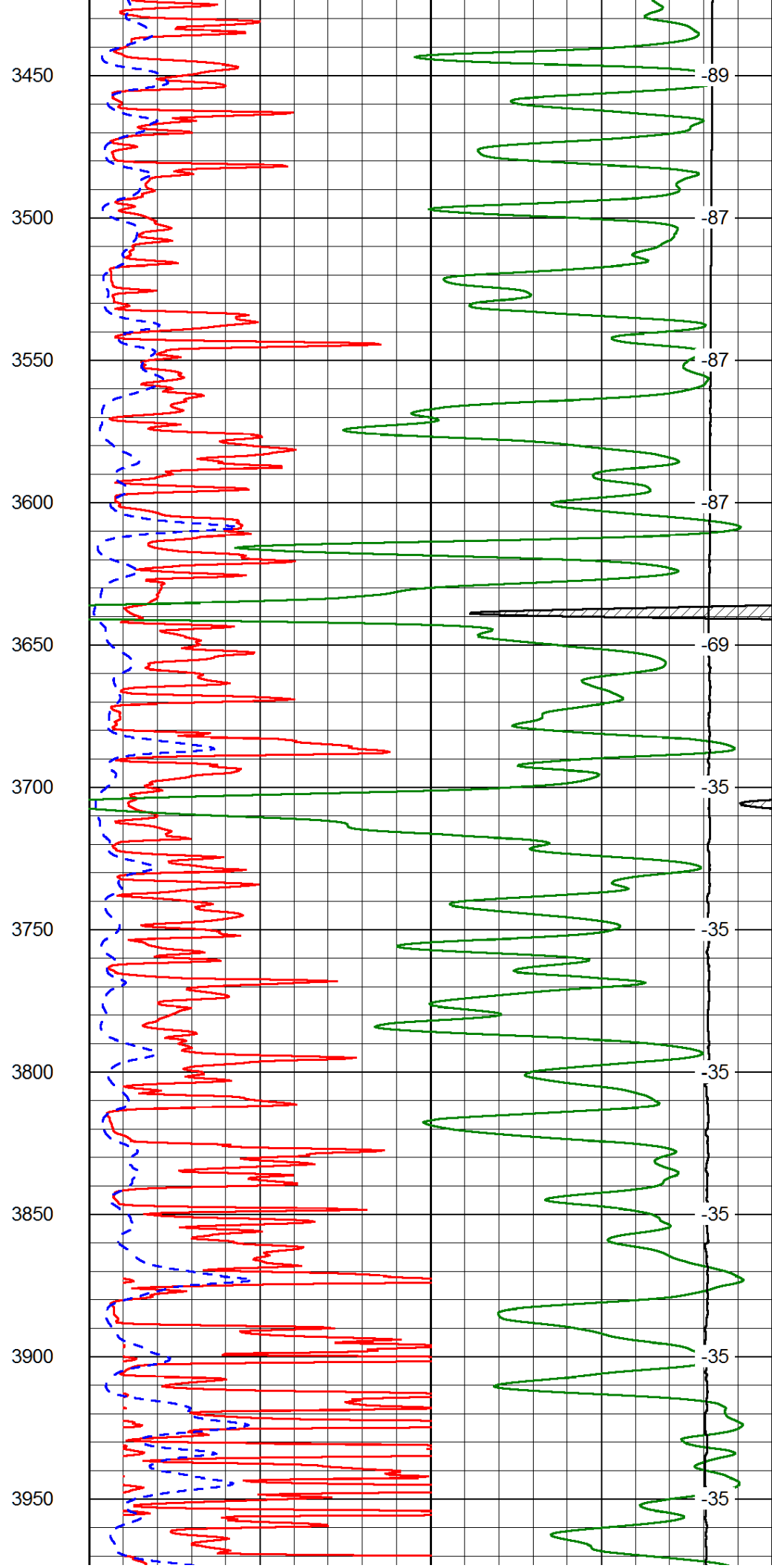
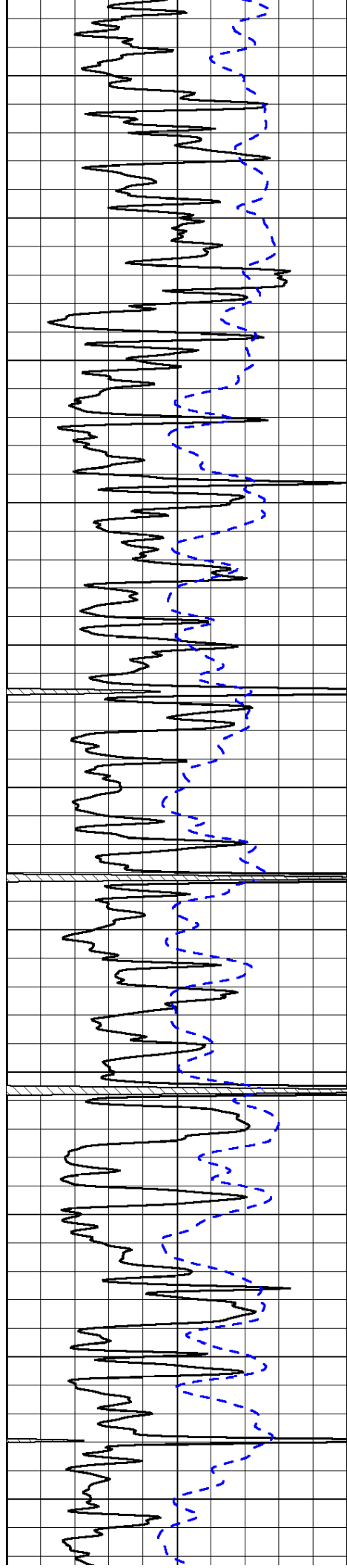


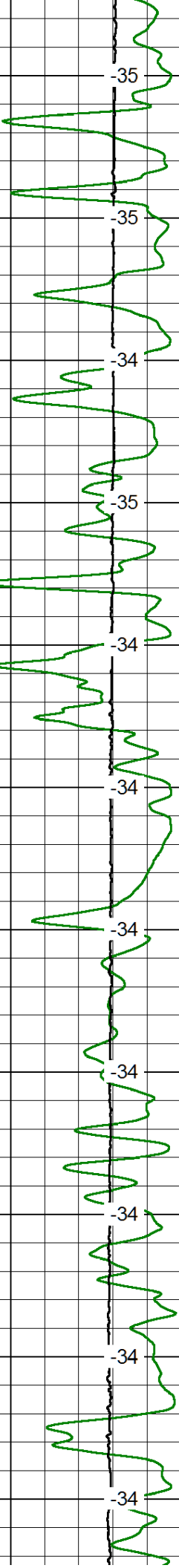
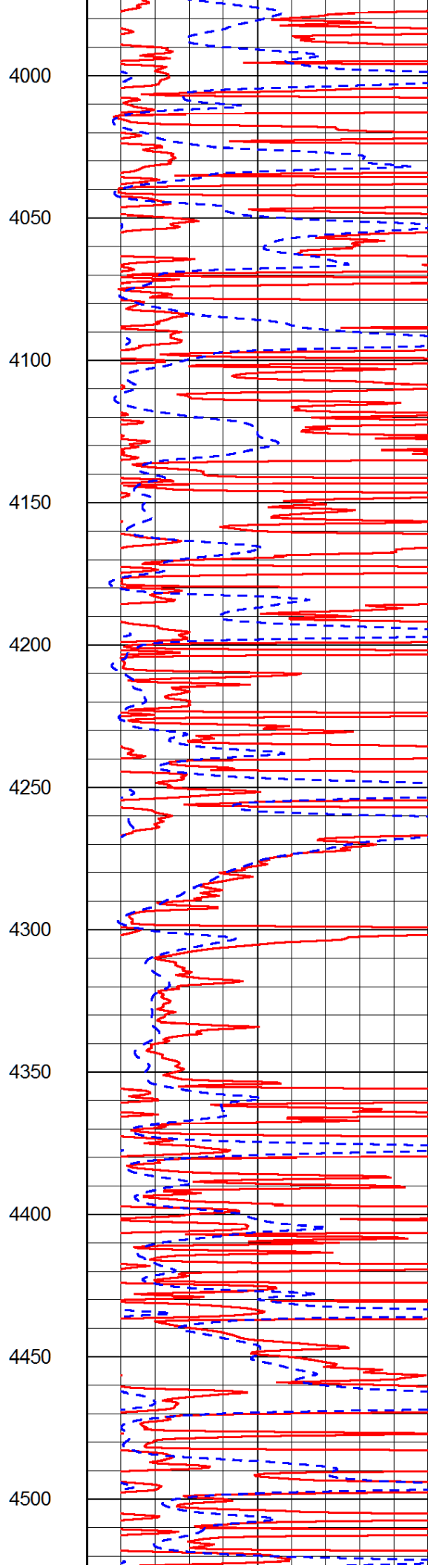
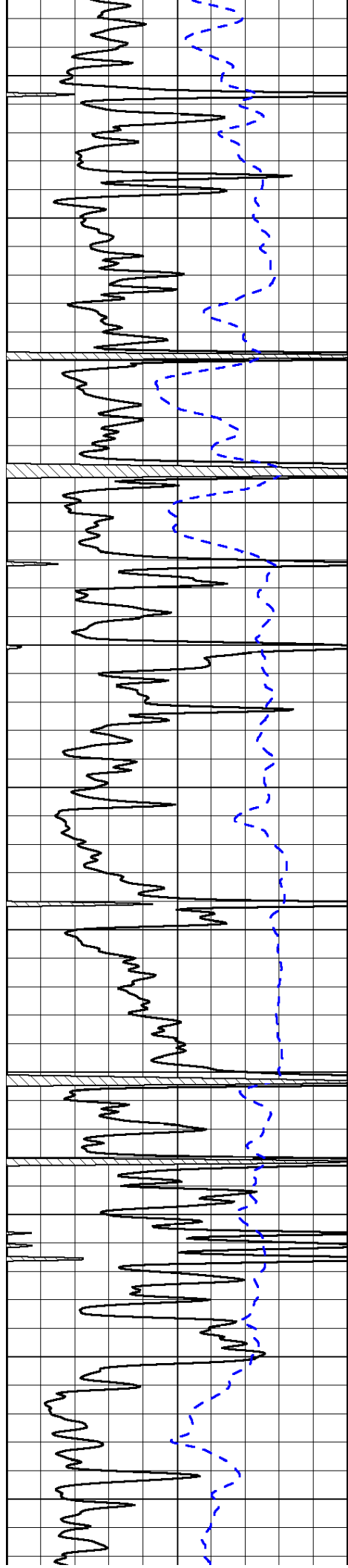


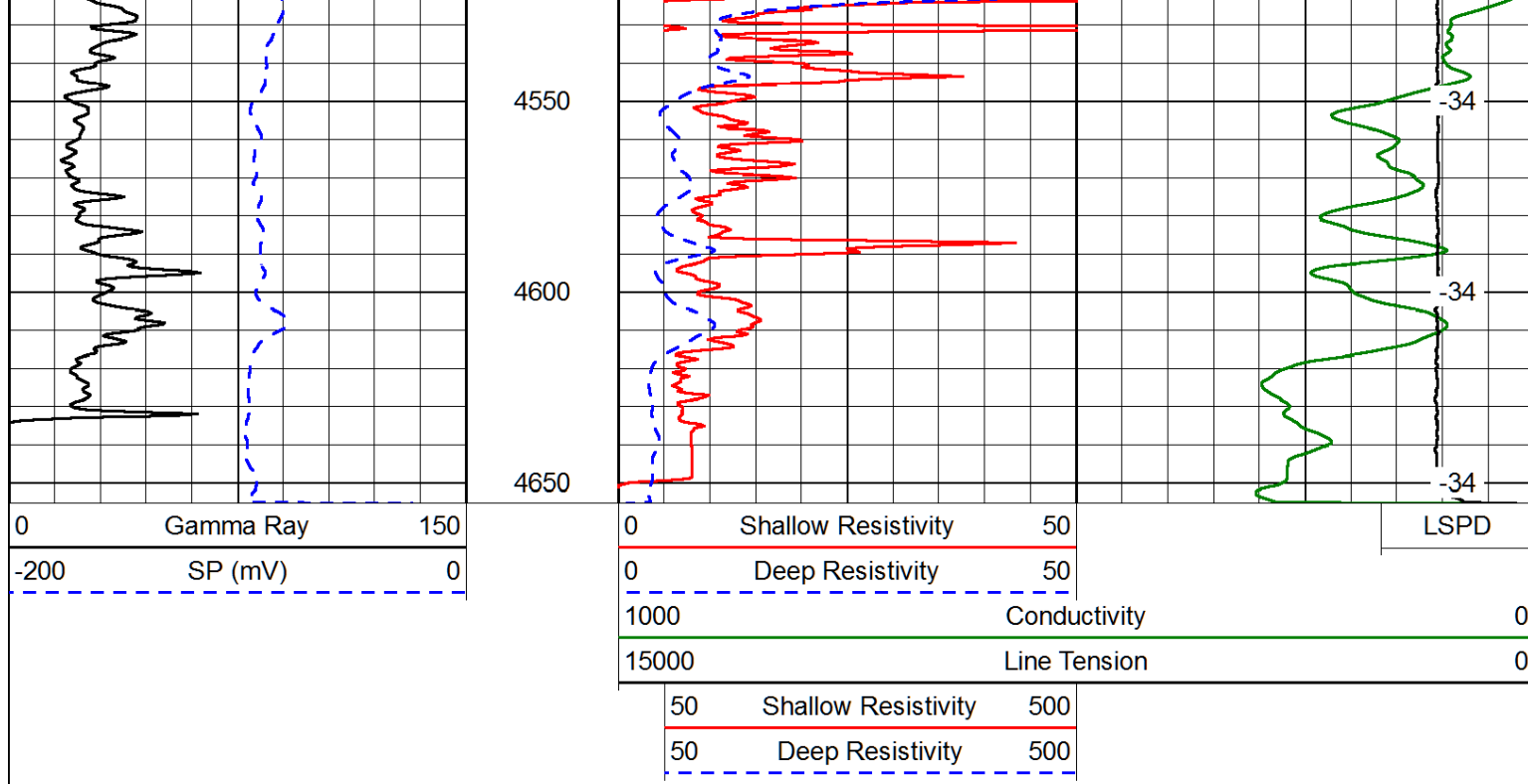




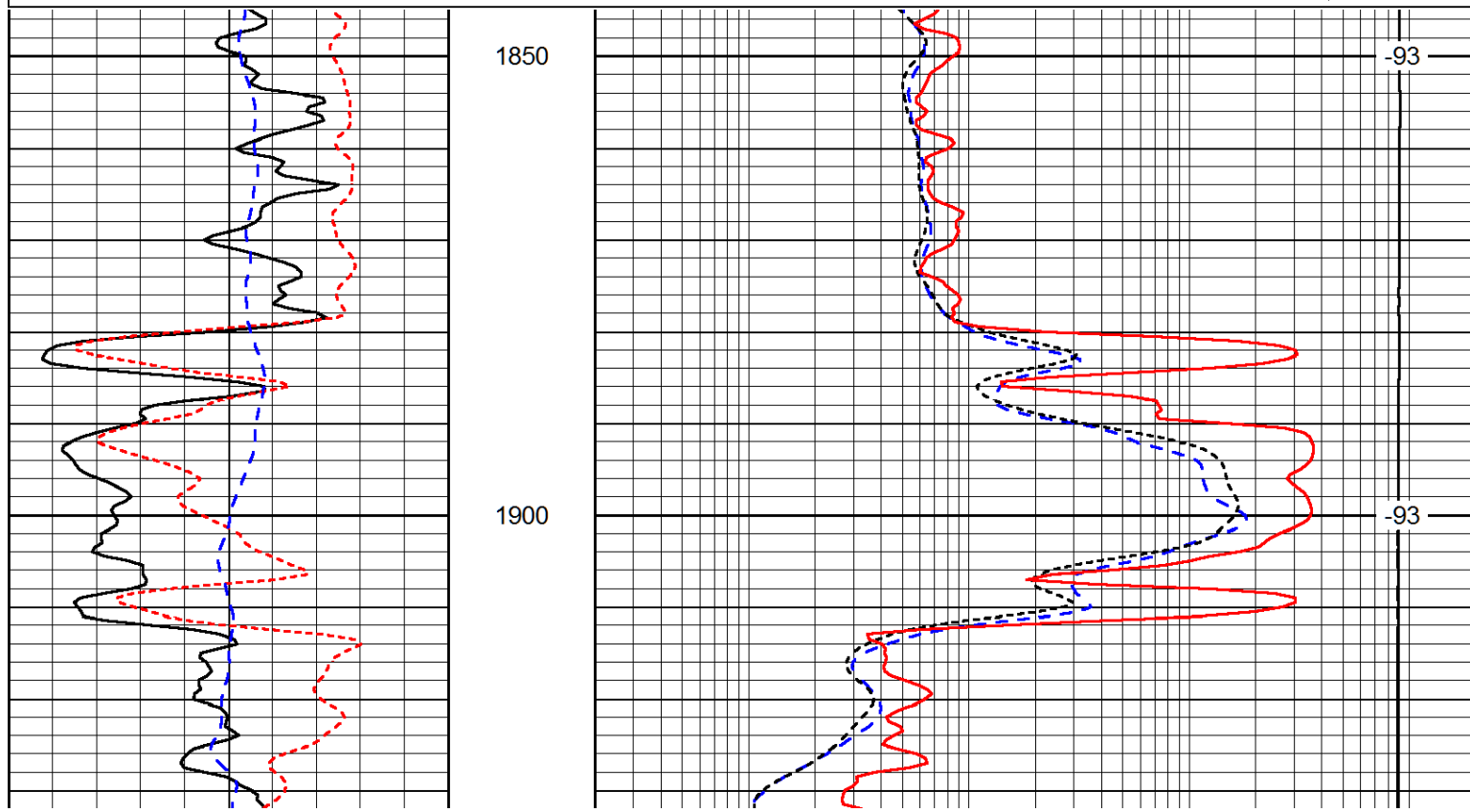
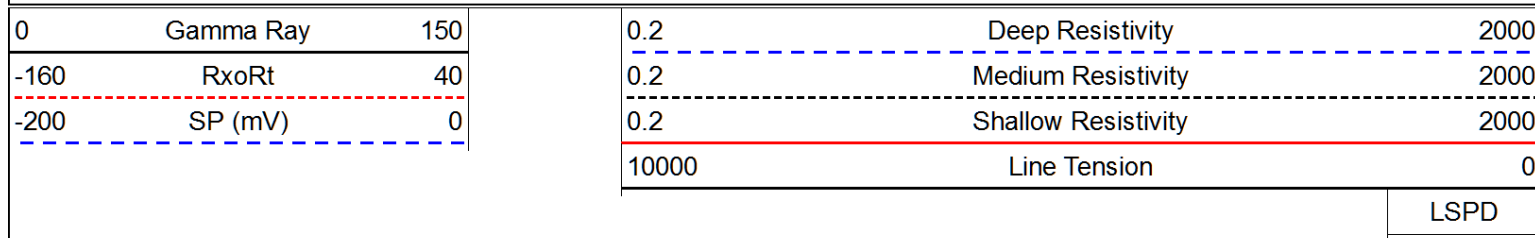


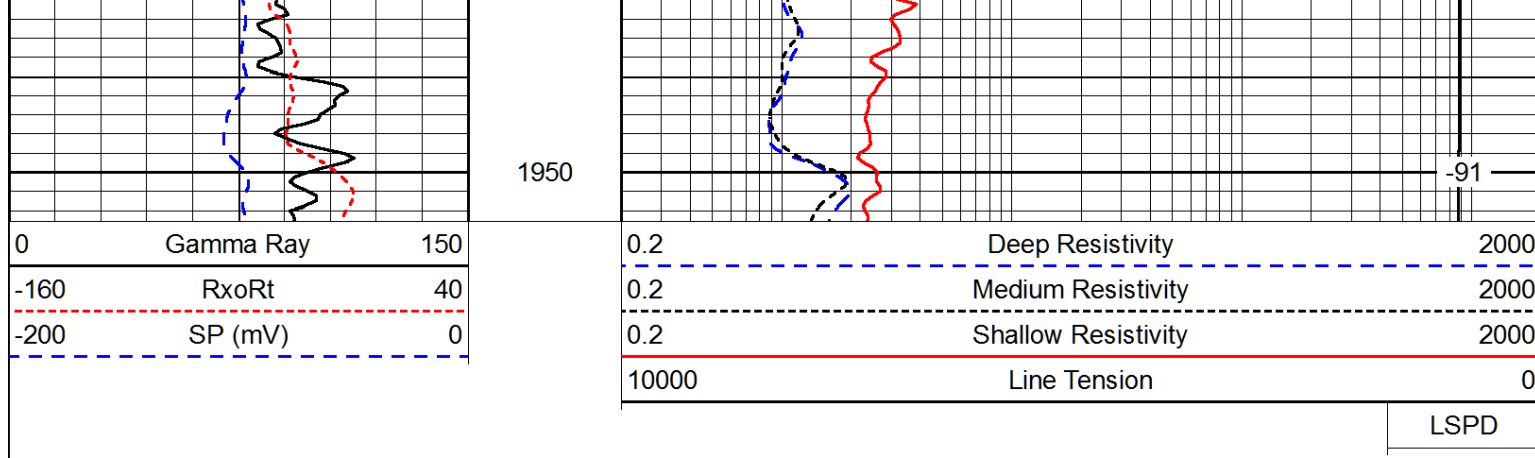




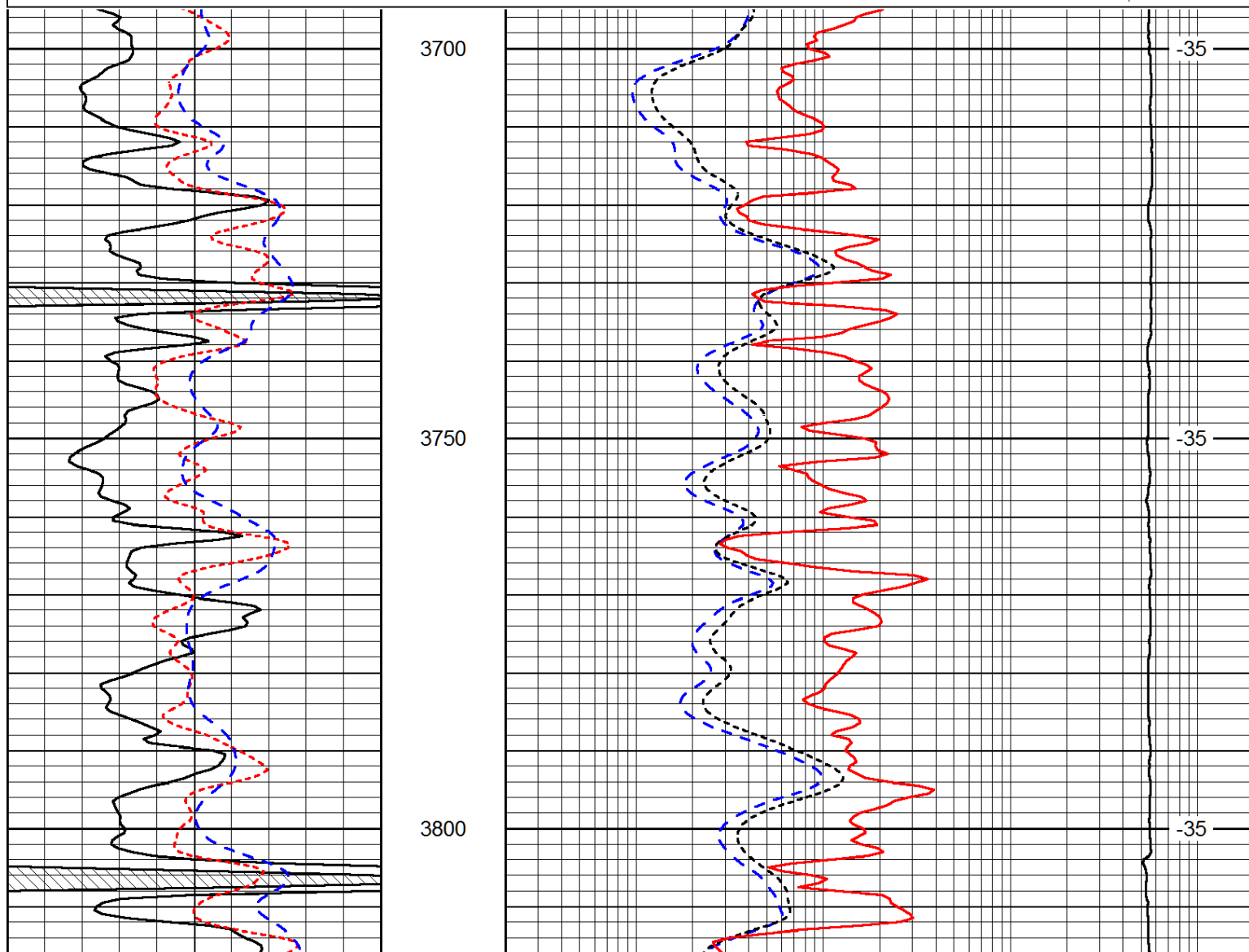
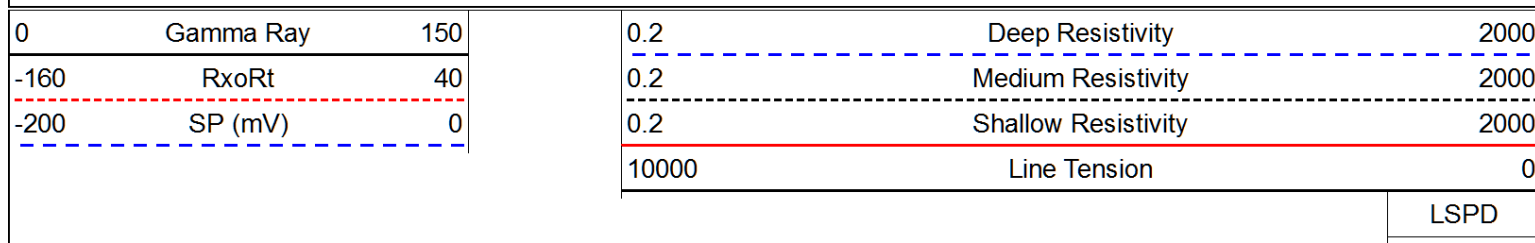


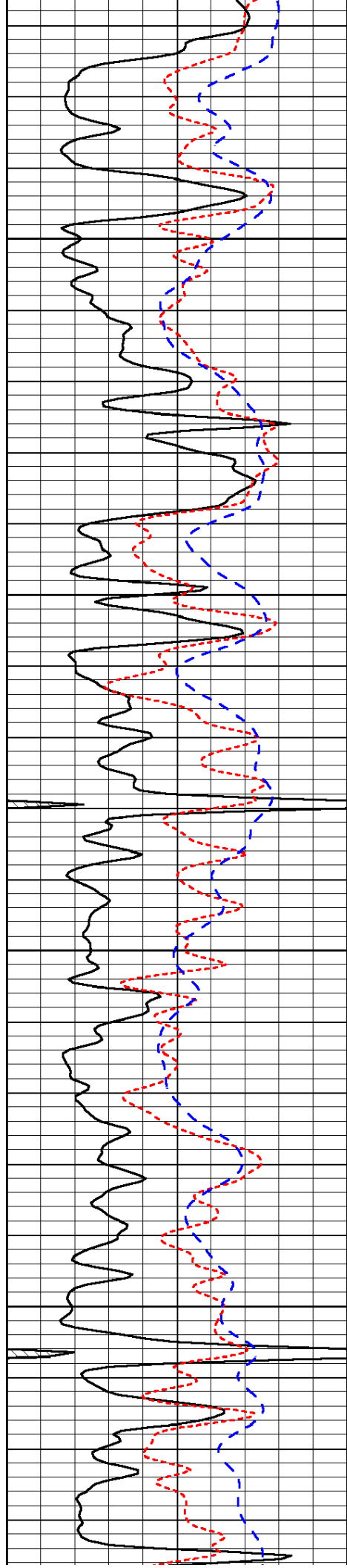
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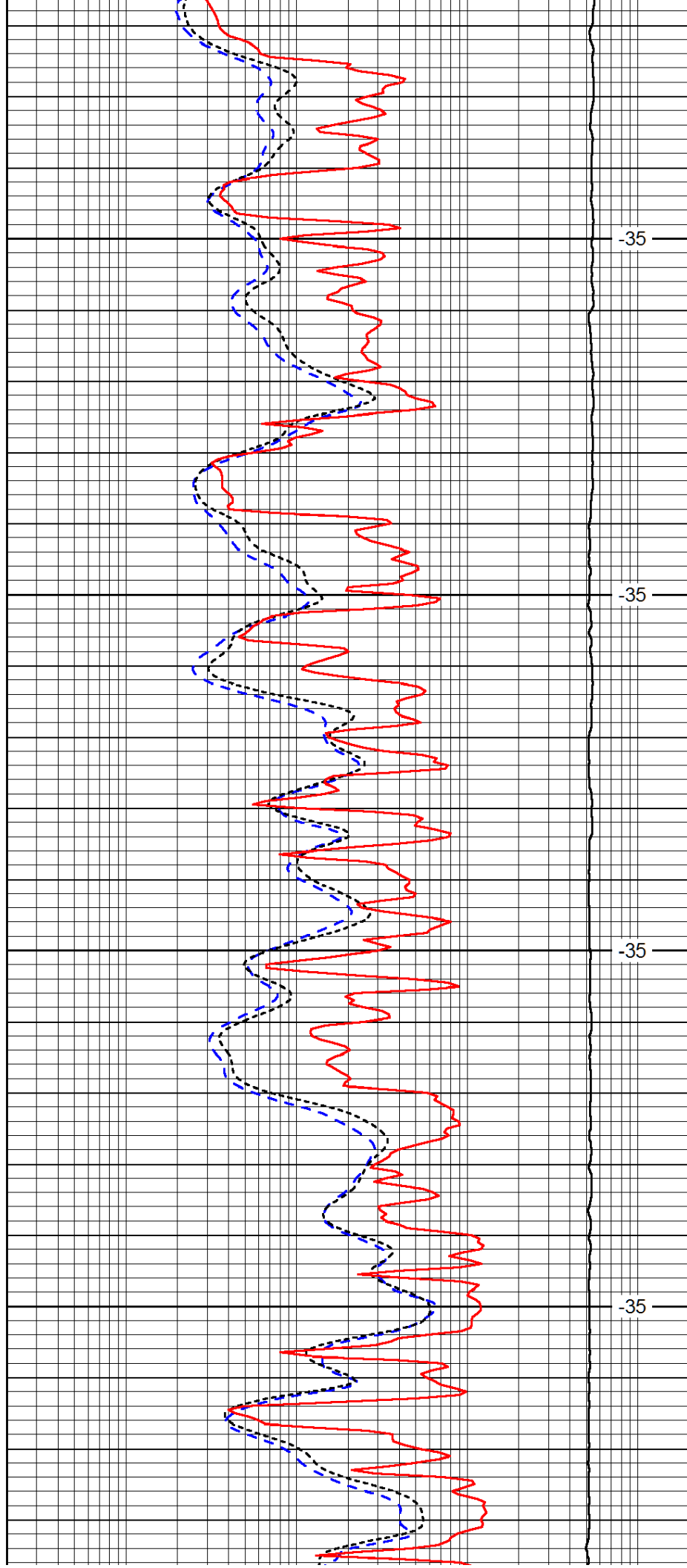


3850

3900

3950

4000

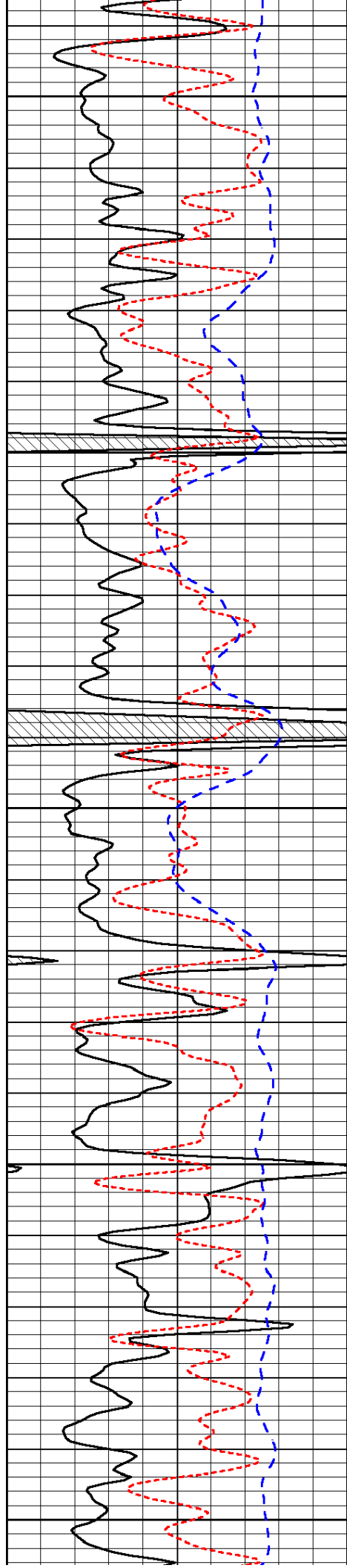


-35

-35

-35

-35



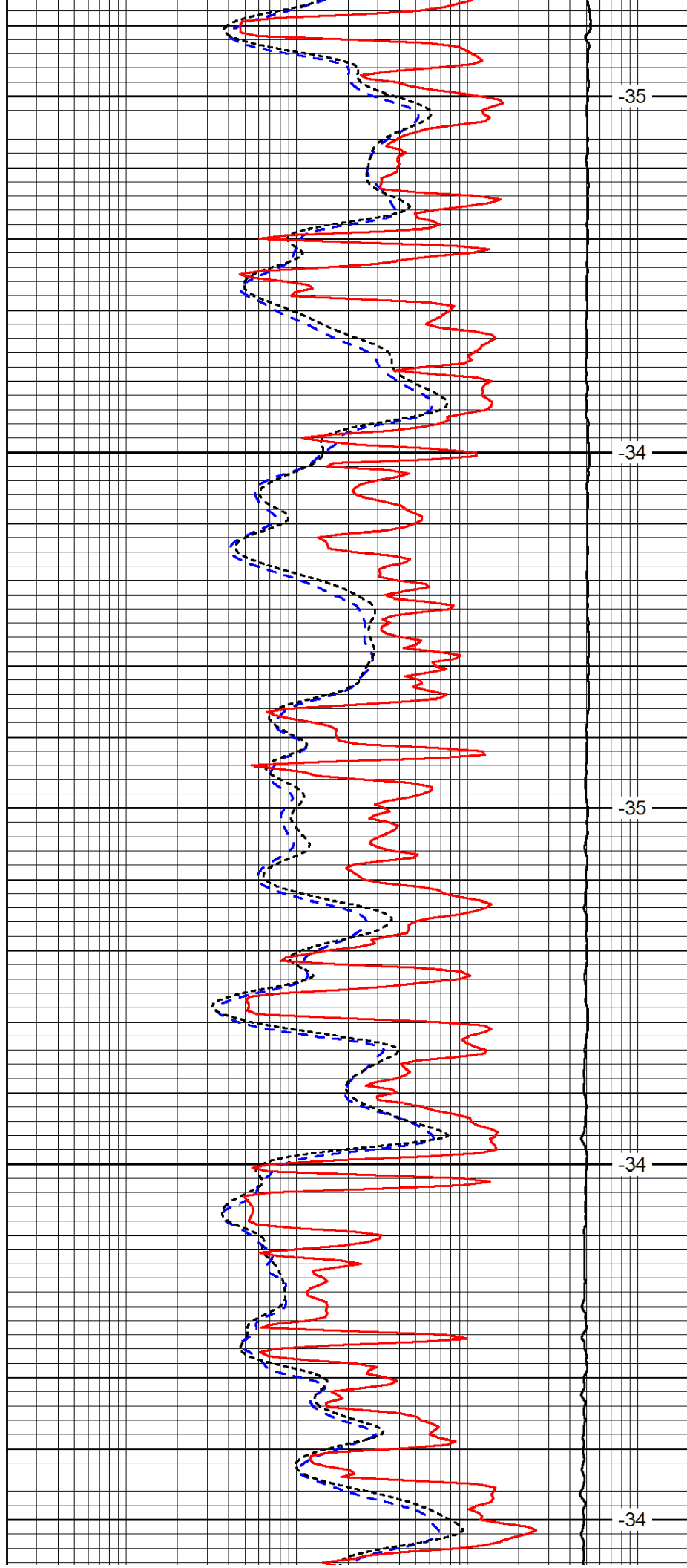
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4100

4150

4200

4250



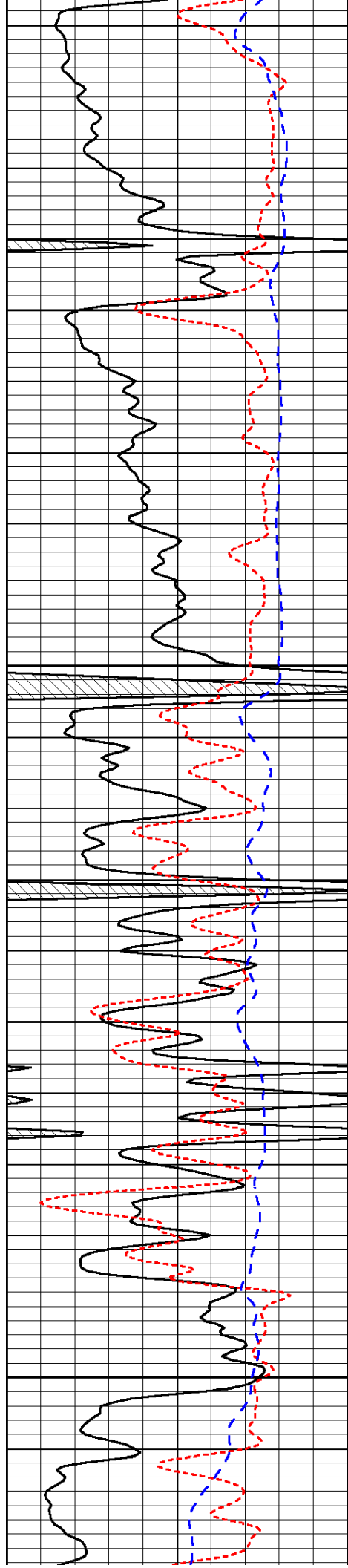
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-34

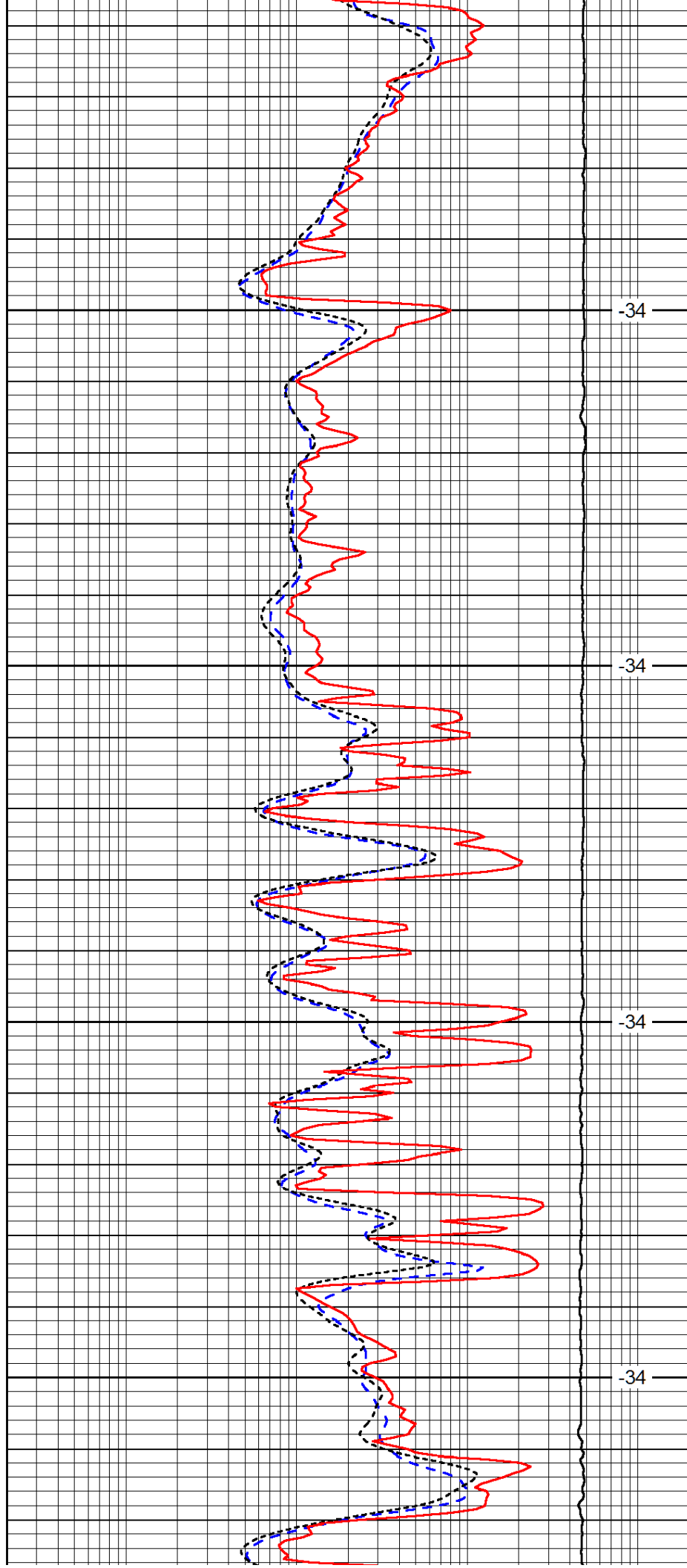


4300

4350

4400

4450

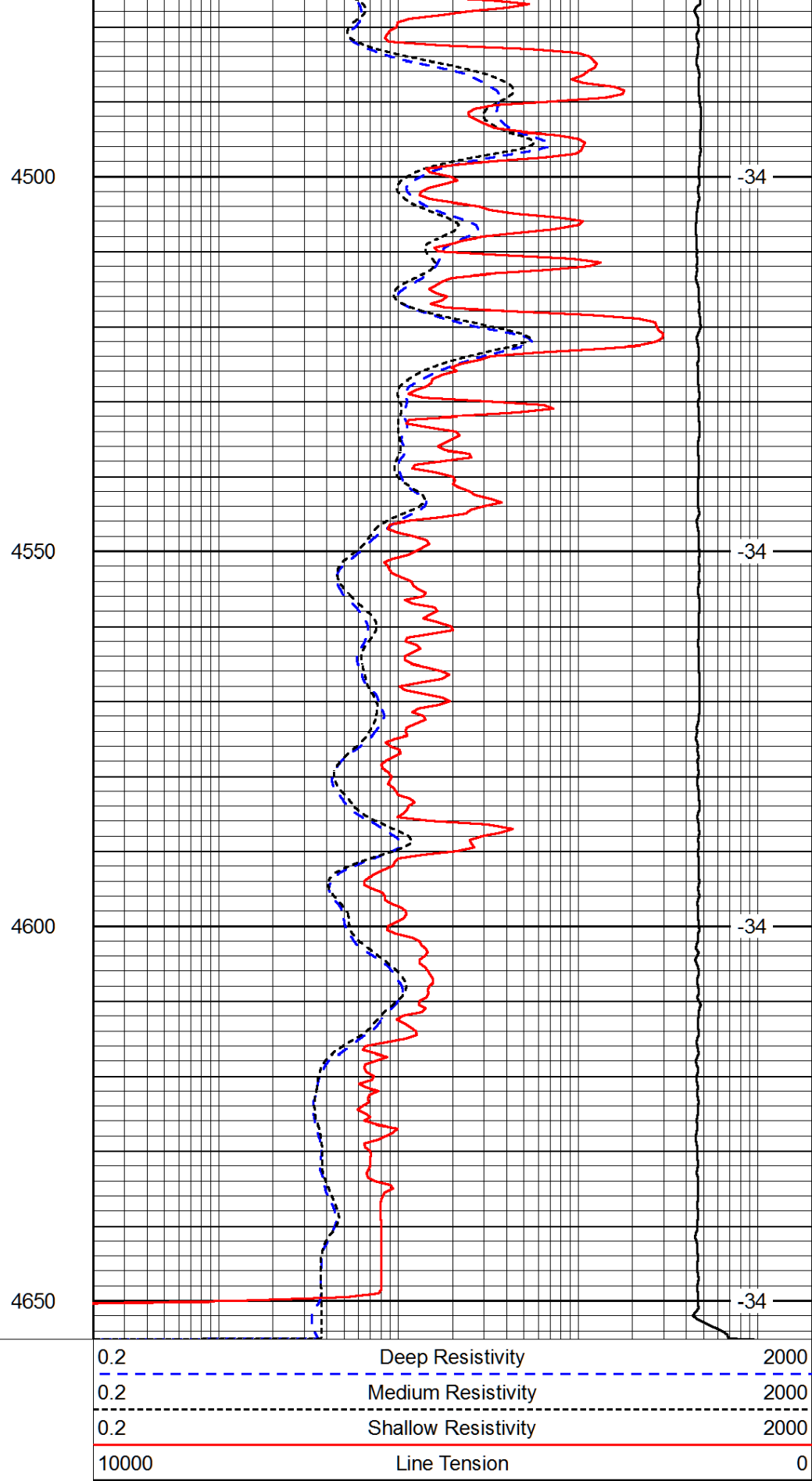
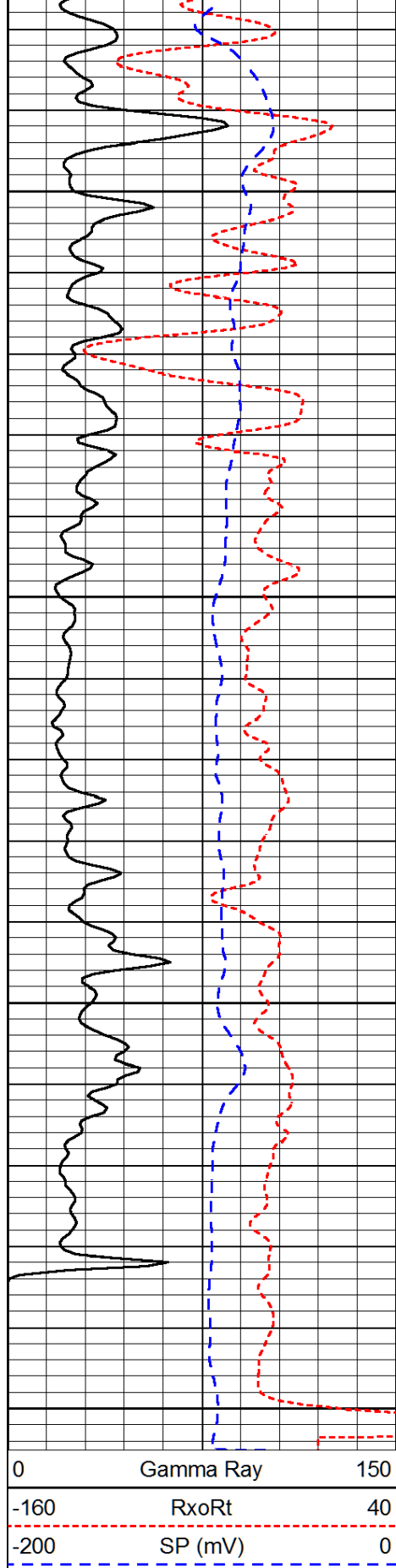


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-34

-34

-34



LSPD