



Dual Induction Log

Pioneer Energy Services

API No.

15-007-24100-00-00

Company Prater Oil & Gas Operations, Inc.

Well Herndon #4-36

Field Amber Creek

County Barber State

Kansas

Location

330' FSL & 2970' FEL

Other Services
CNL/CDL

Sec: 36

Twp: 30S

Rge: 12W

Elevation

K.B. 1636
D.F. 1627
G.L. 1627

Permanent Datum
Ground Level

Elevation 1627

Log Measured From
Kelly Bushing

9 Ft. Above Perm. Datum

Drilling Measured From
Kelly Bushing

Date

10/29/2013

Run Number

One

Depth Driller

4450

Depth Logger

4453

Bottom Logged Interval

4452

Top Log Interval

250

Casing Driller

8.625 @ 264

Casing Logger

264

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

8000

Density / Viscosity

9.1 52

pH / Fluid Loss

9.0 10.4

Source of Sample

Flowline

Rm @ Meas. Temp

0.40 @ 54

Rmf @ Meas. Temp

0.30 @ 54

Rmc @ Meas. Temp

0.54 @ 54

Source of Rmf / Rmc

Charts

Rm @ BHT

0.18 @ 123

Operating Rig Time

3 Hours

Max Rec. Temp. F

123

Equipment Number

91

Location

Hays

Recorded By

D. Schmidt

Witnessed By

Scott Alberg

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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.pioneerenergy.com
785 625 3858
Medicine Lodge,
North on Hwy 281 to Resort Rd, 1/4 North to Gallardia Rd, 1/2 East,
North into

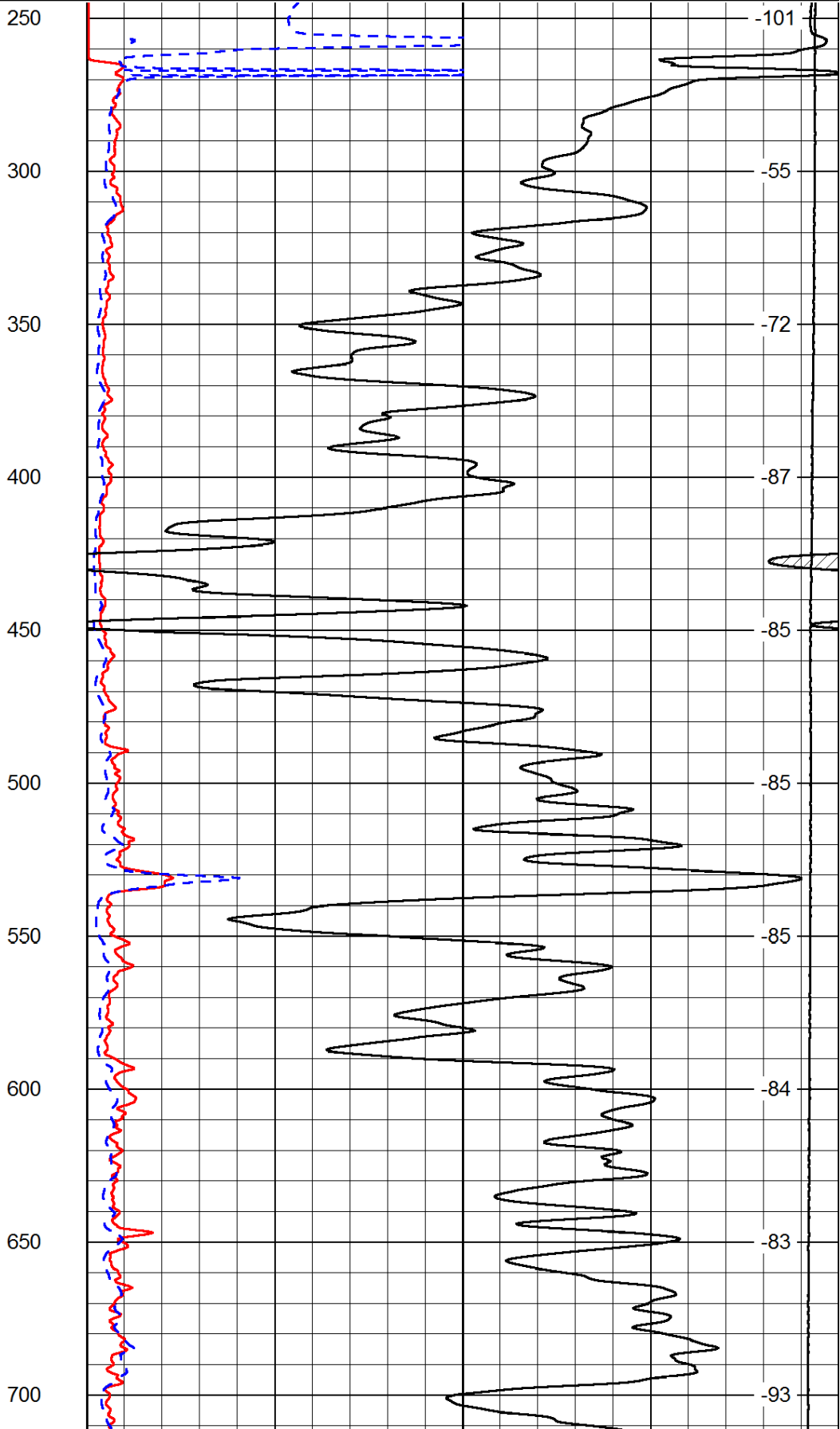
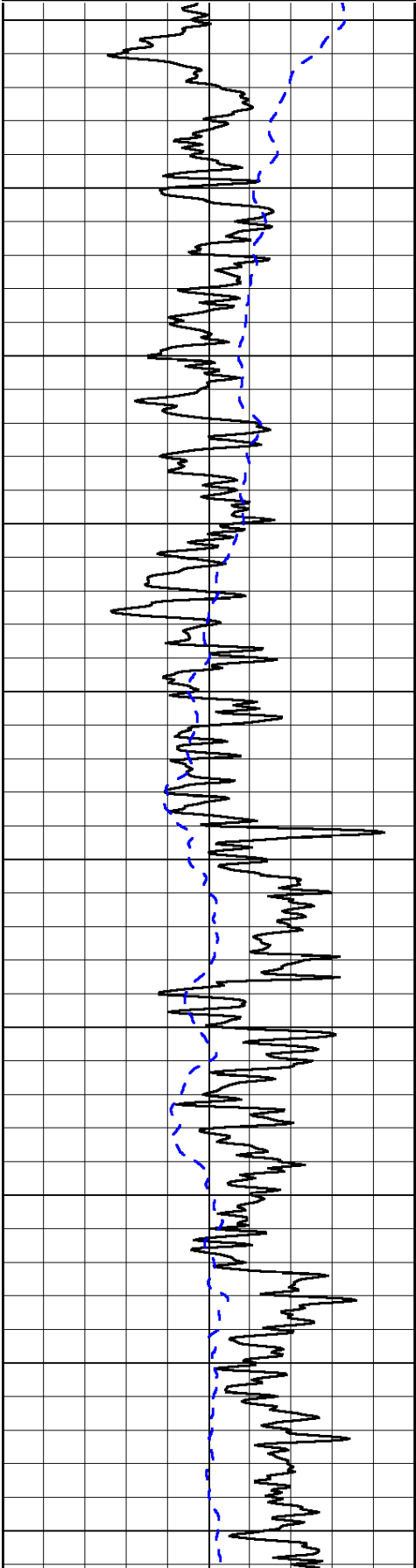
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Presentation Format: dil2in
Dataset Creation: Wed Oct 30 00:17:28 2013
Charted by: Depth in Feet scaled 1:600

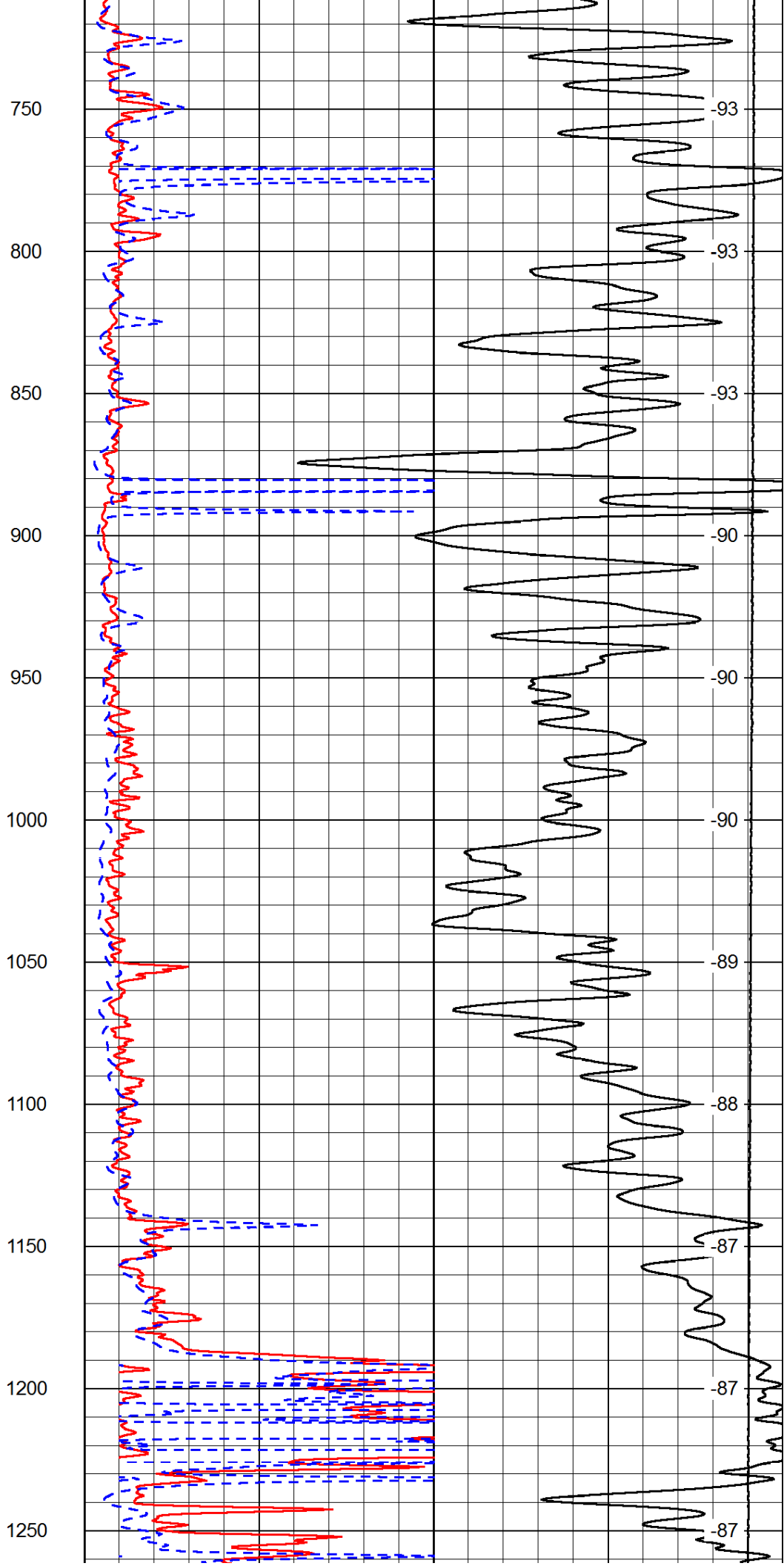
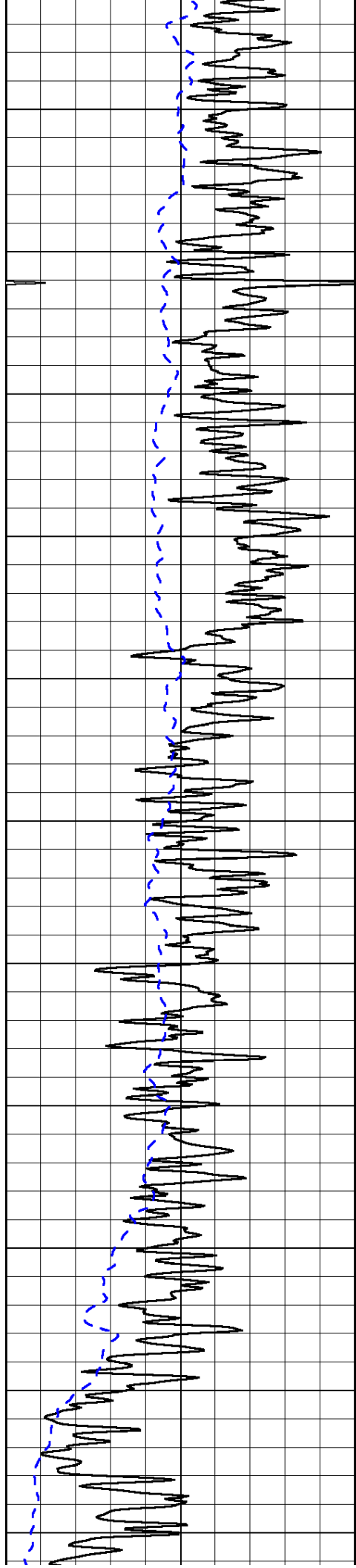
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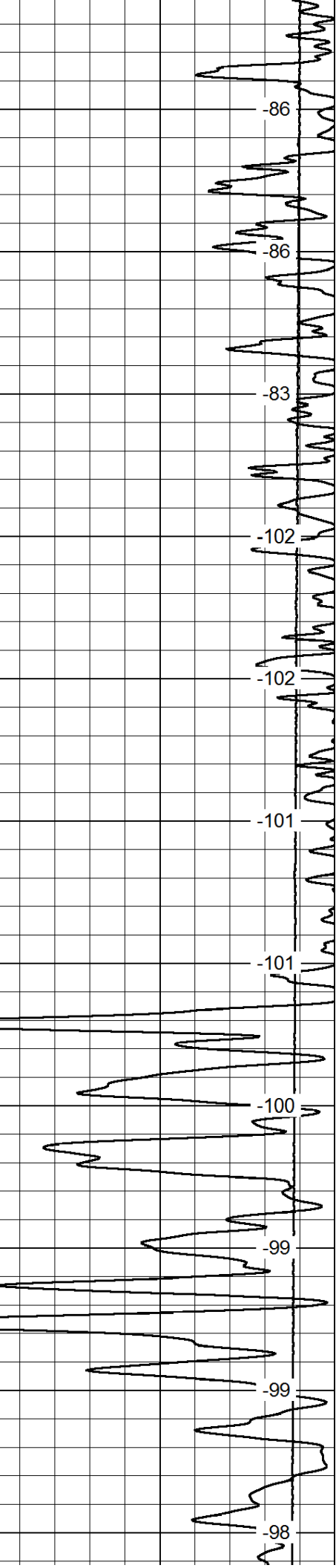
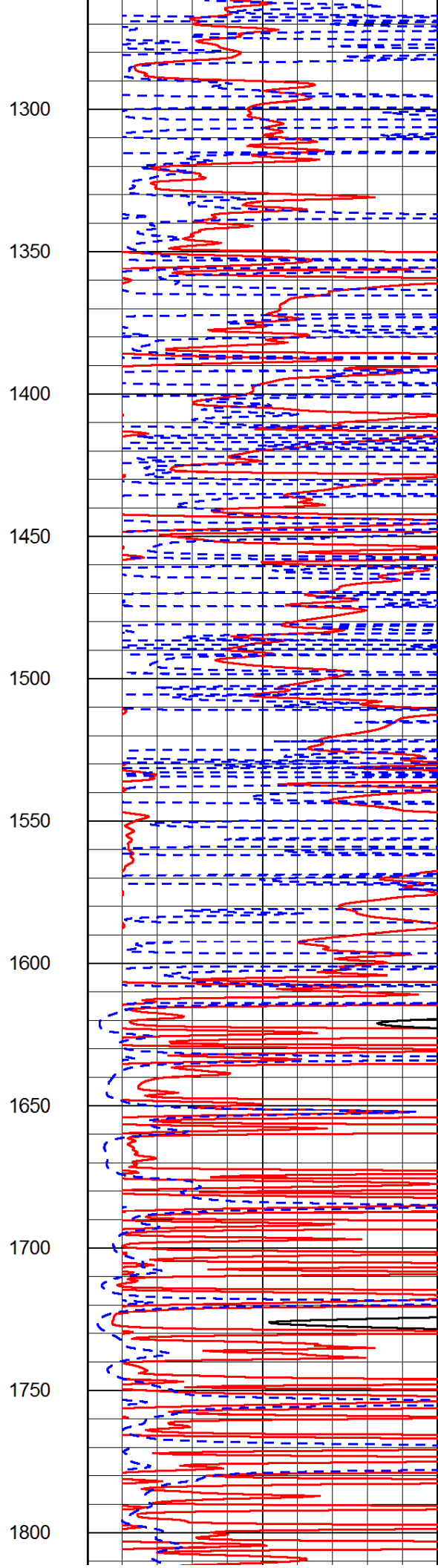
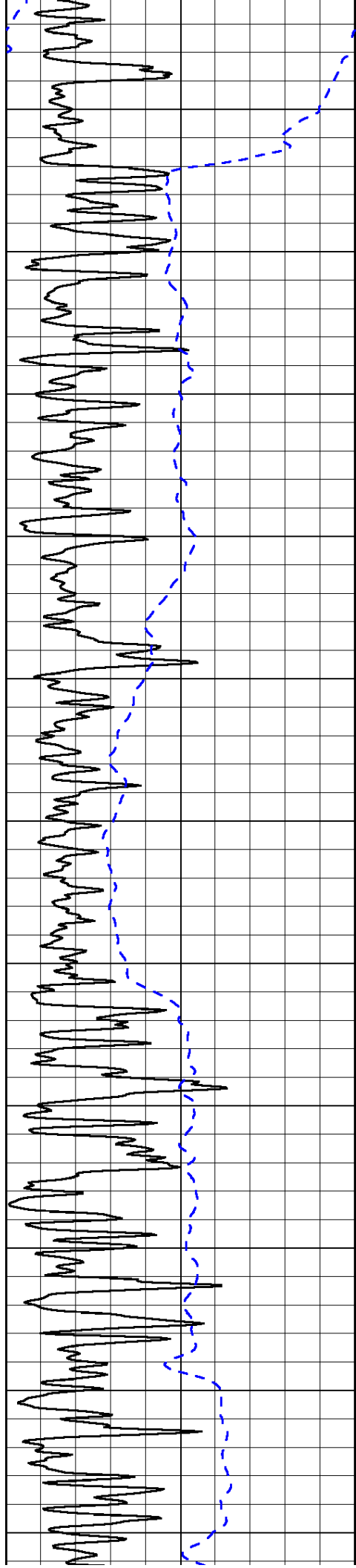
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-200	SP (mV)	0

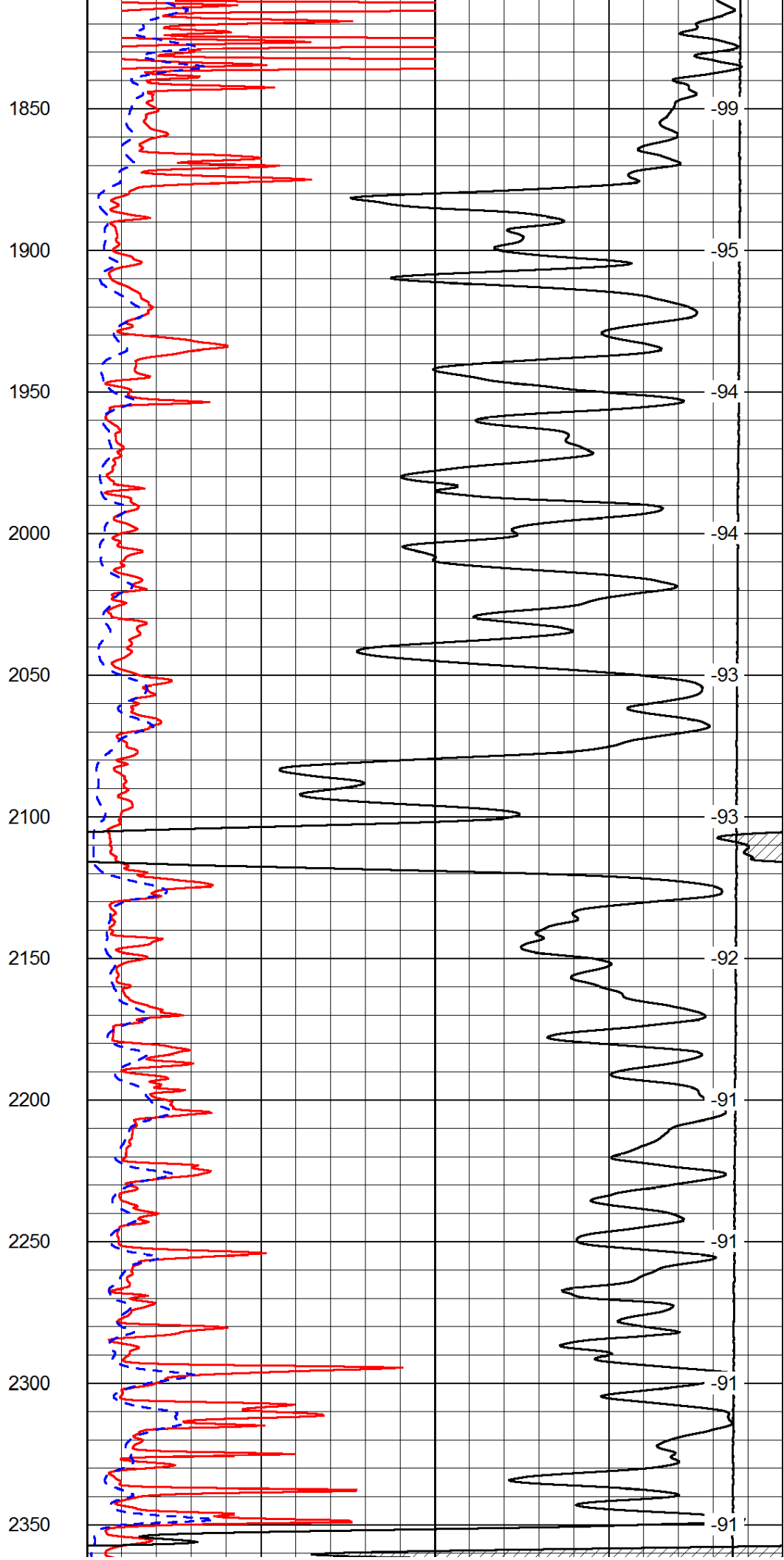
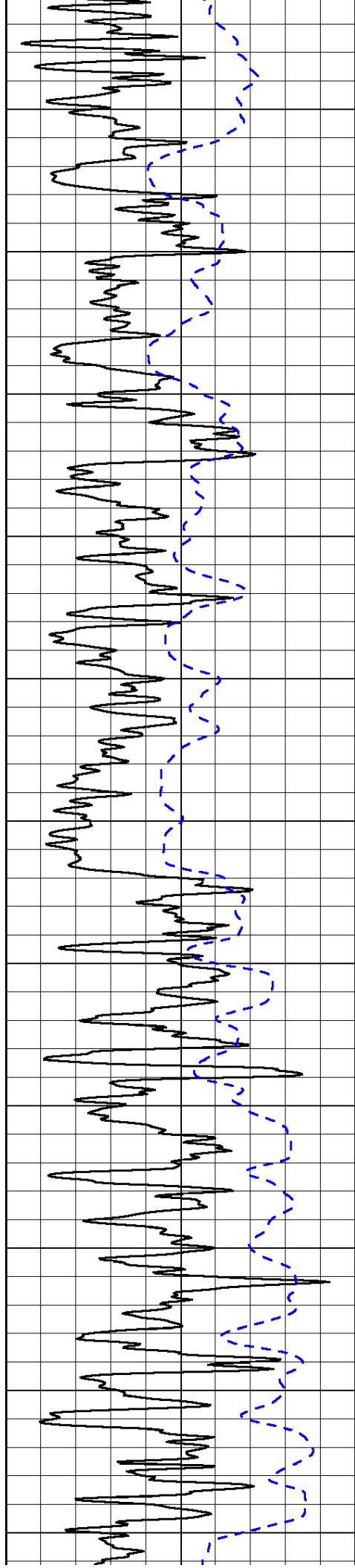
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0	Deep Resistivity	50
1000	Conductivity	0
15000	Line Tension	0
50	Shallow Resistivity	500
50	Deep Resistivity	500

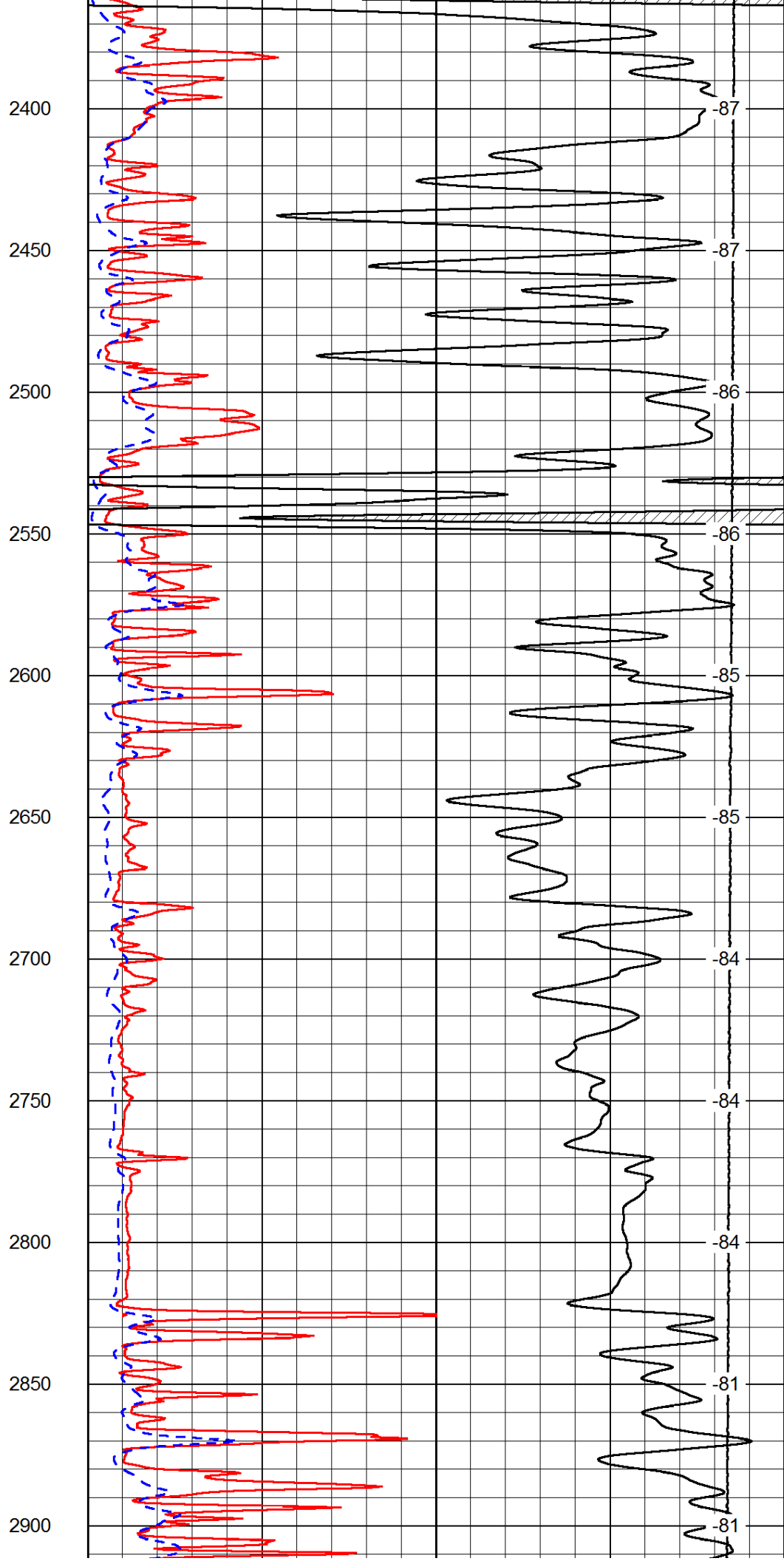
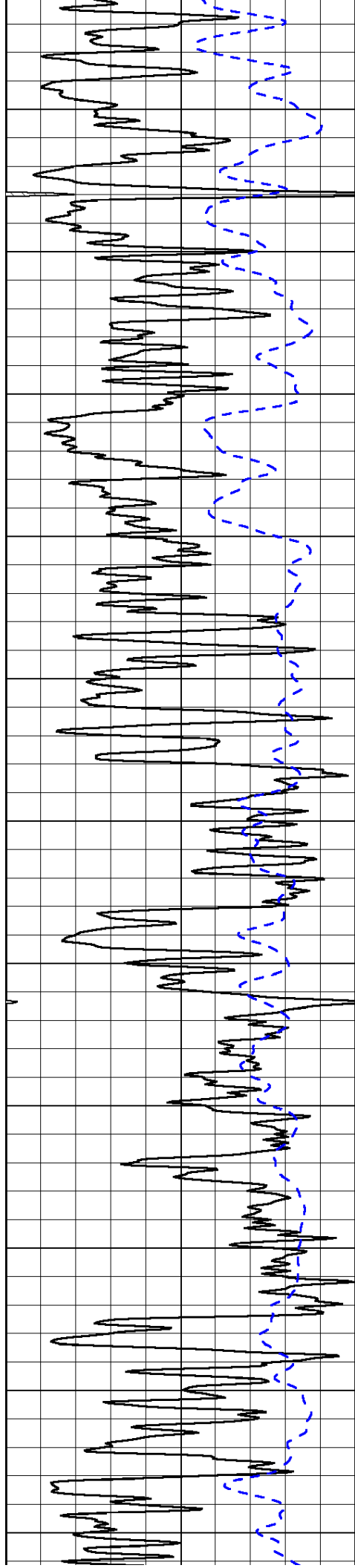
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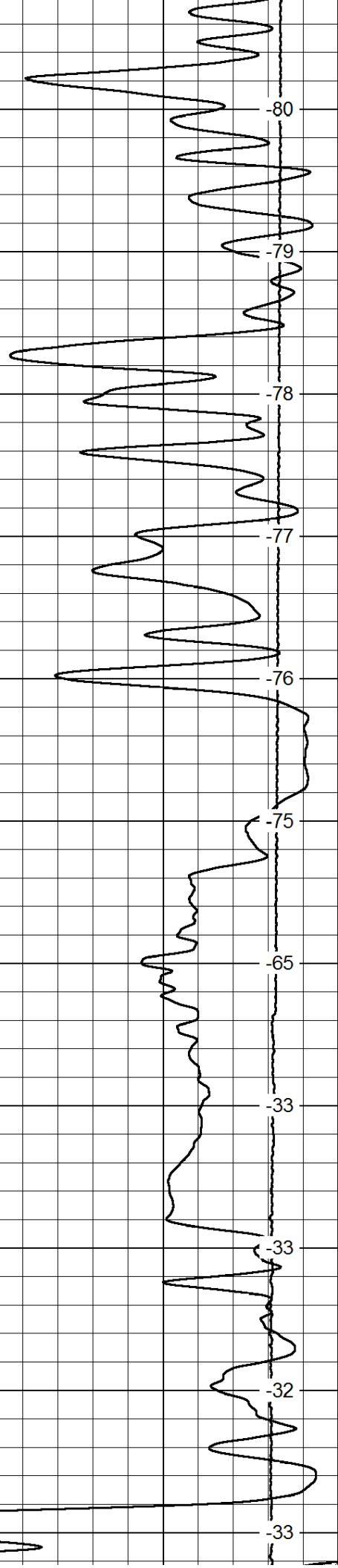
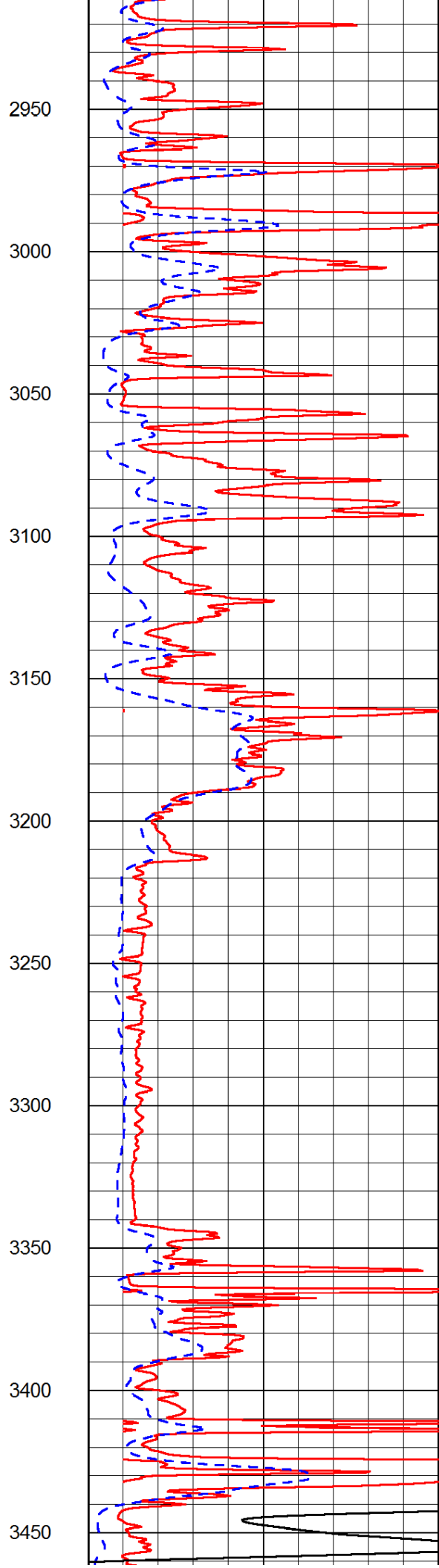
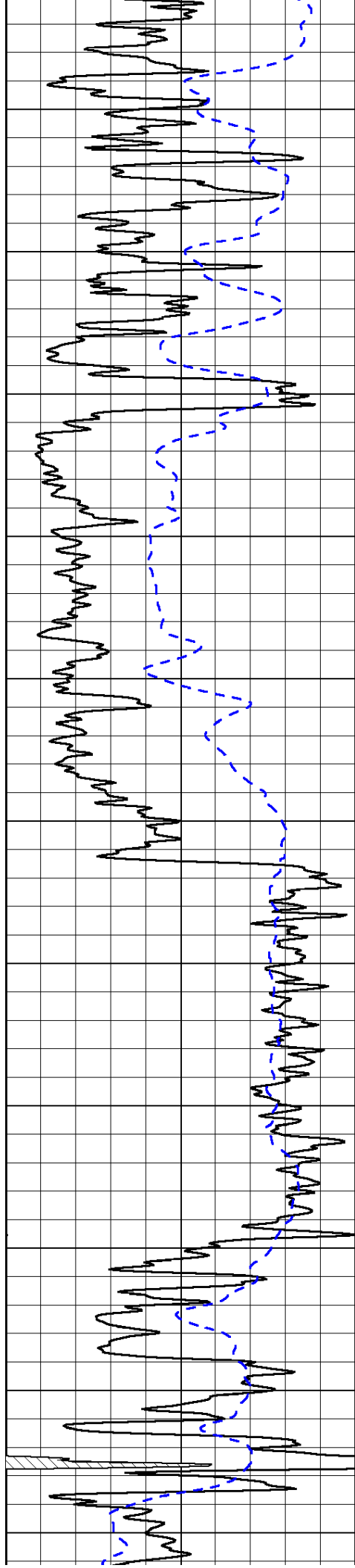


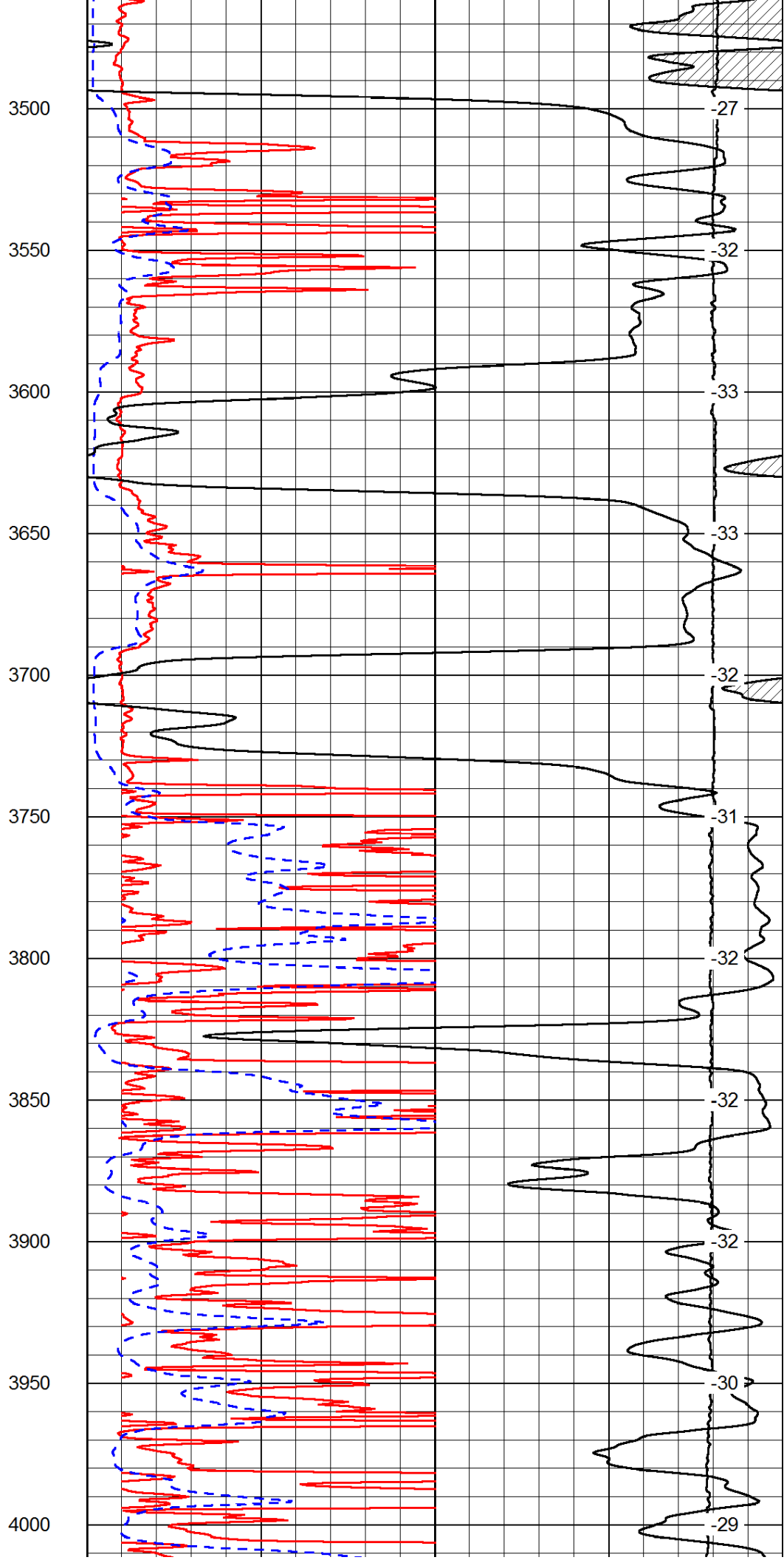
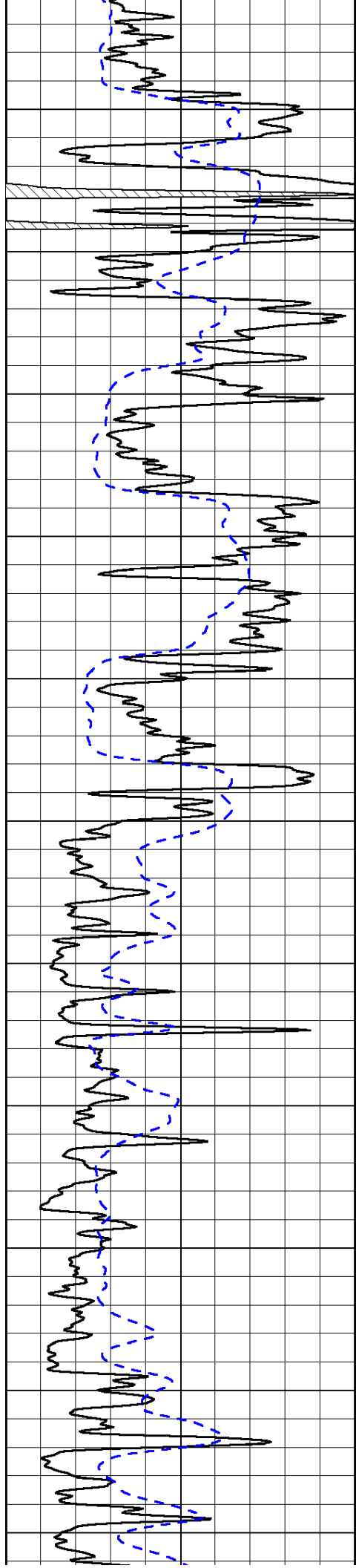


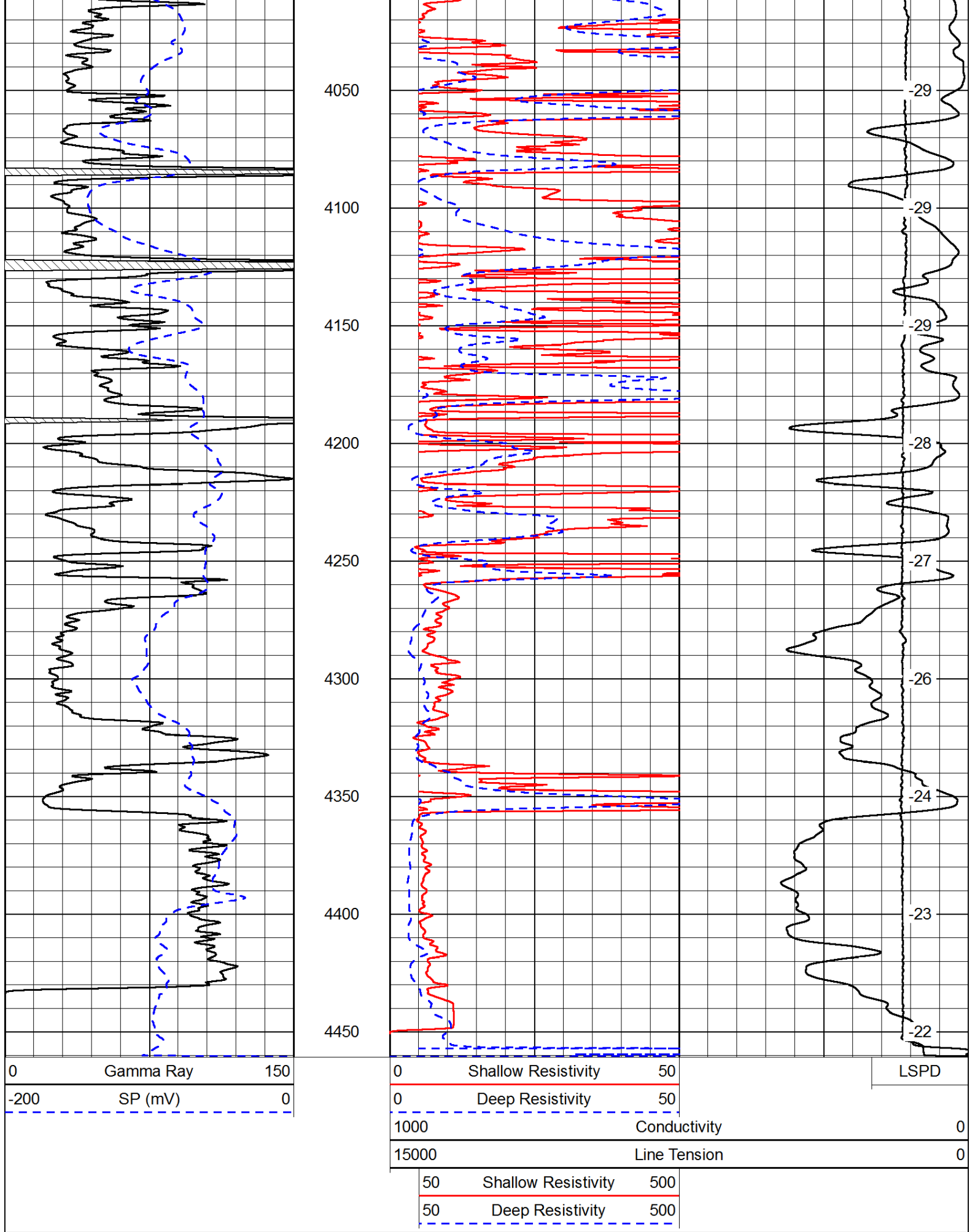










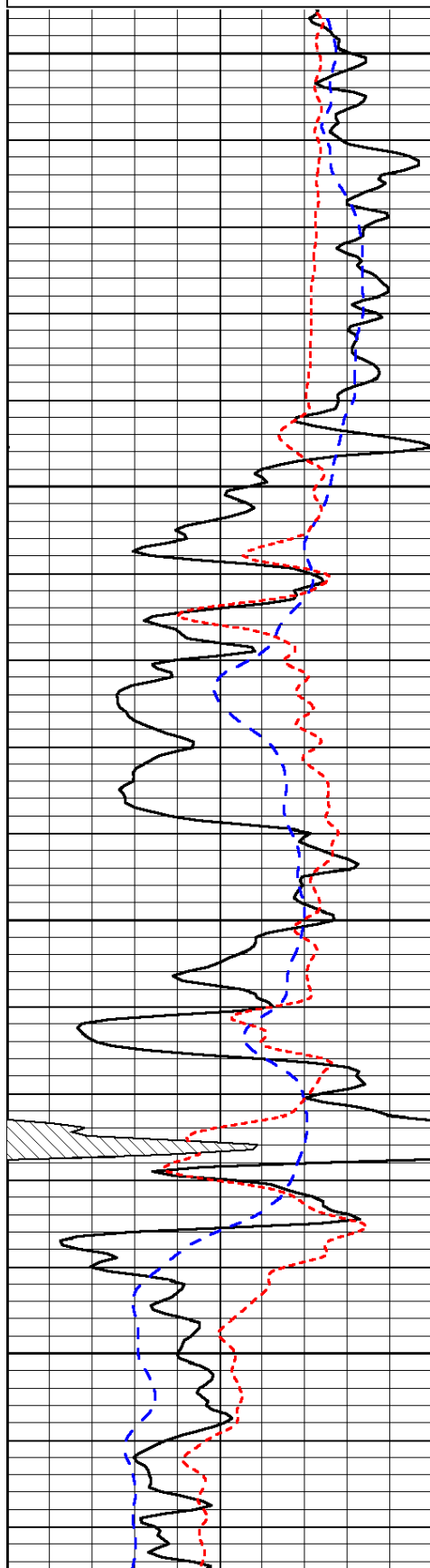


Dataset Pathname: dil/pratstk
Presentation Format: dil
Dataset Creation: Wed Oct 30 00:17:28 2013
Charted by: Depth in Feet scaled 1:240

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

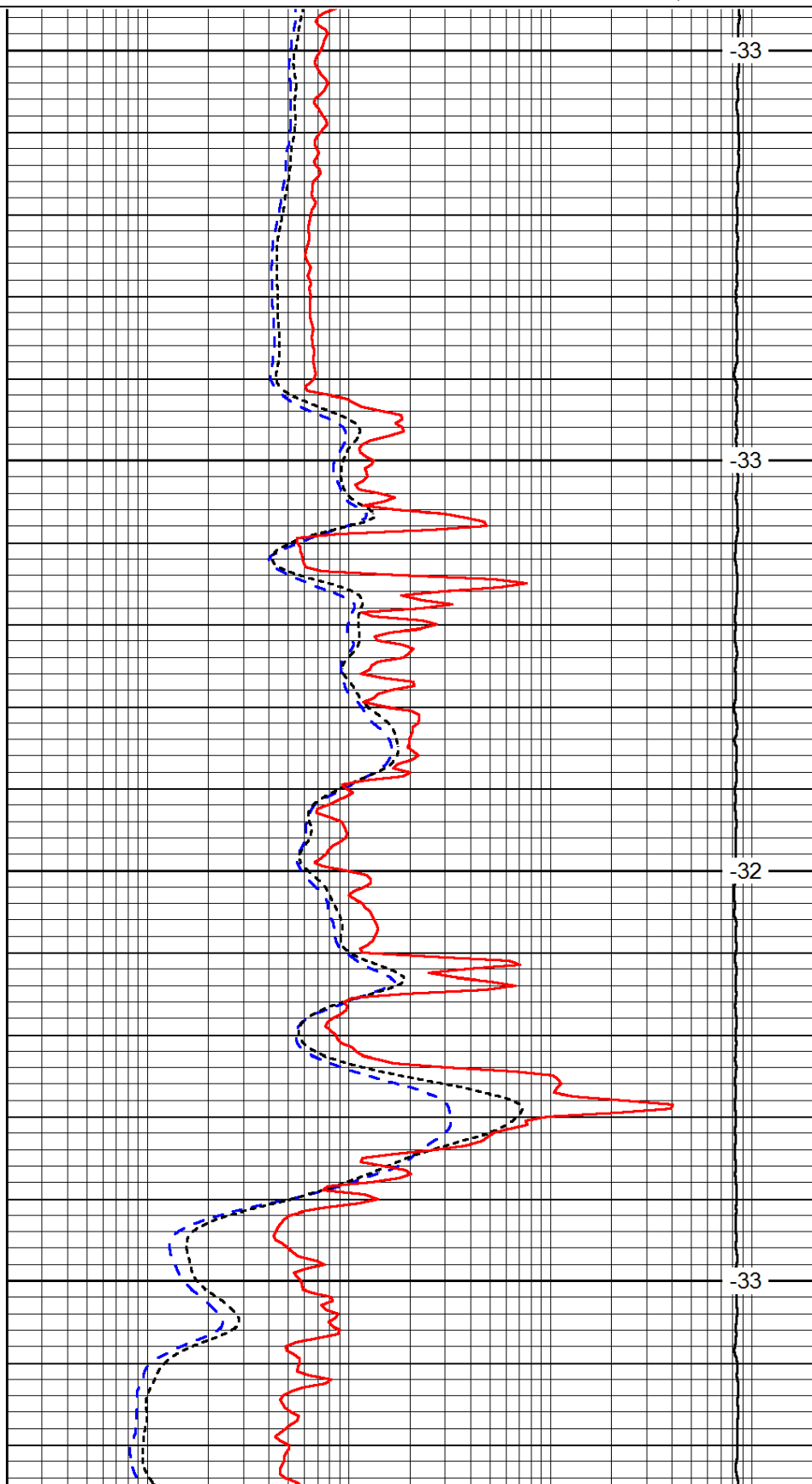


3300

3350

3400

3450

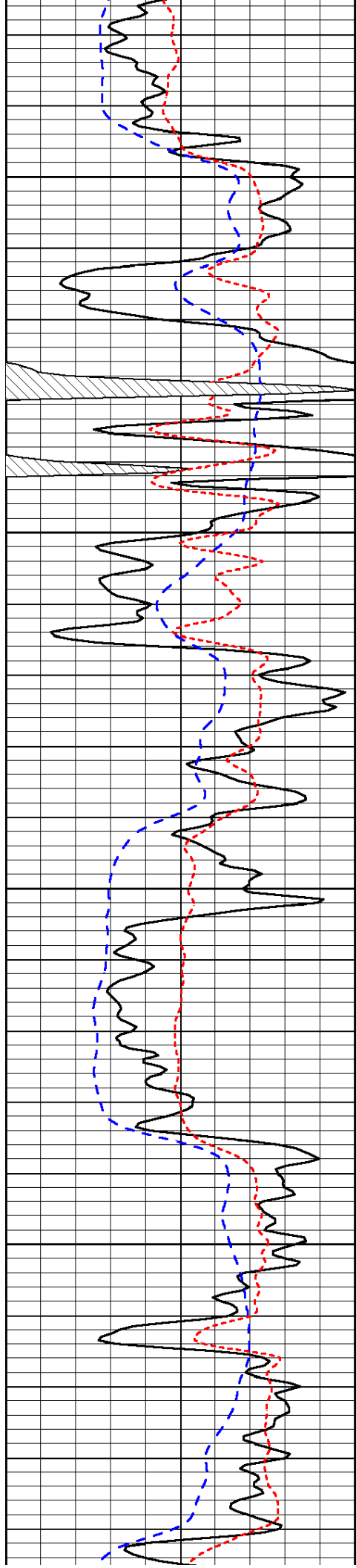


-33

-33

-32

-33

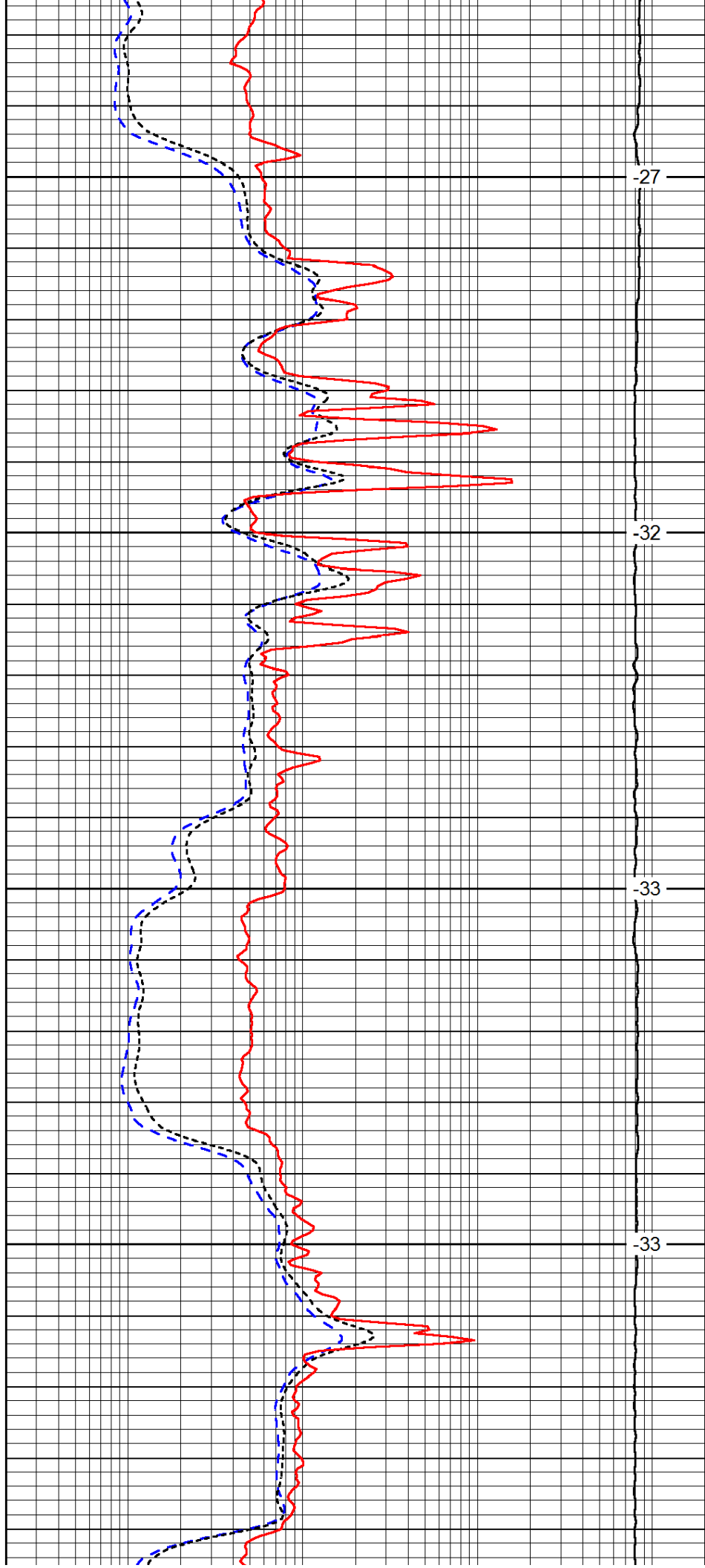


3500

3550

3600

3650

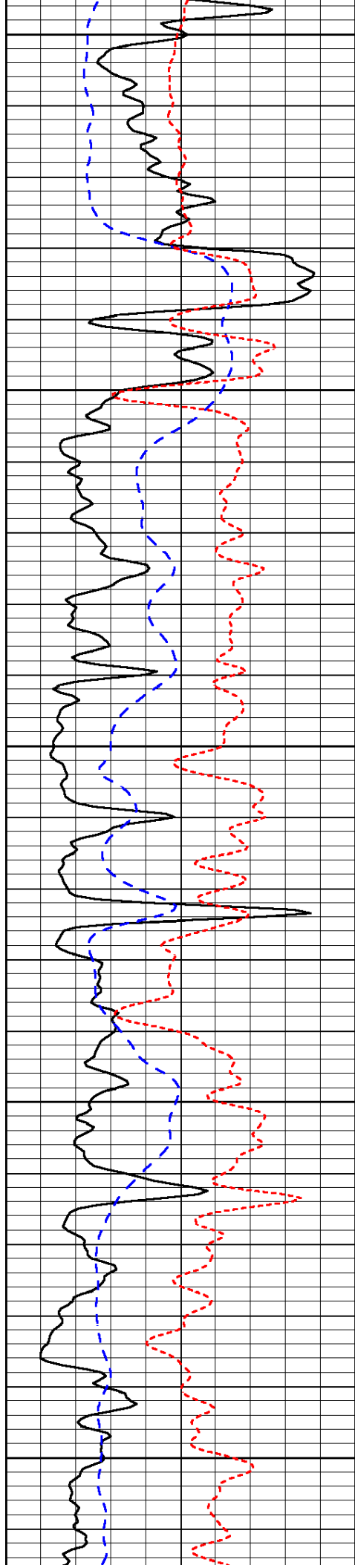


-27

-32

-33

-33



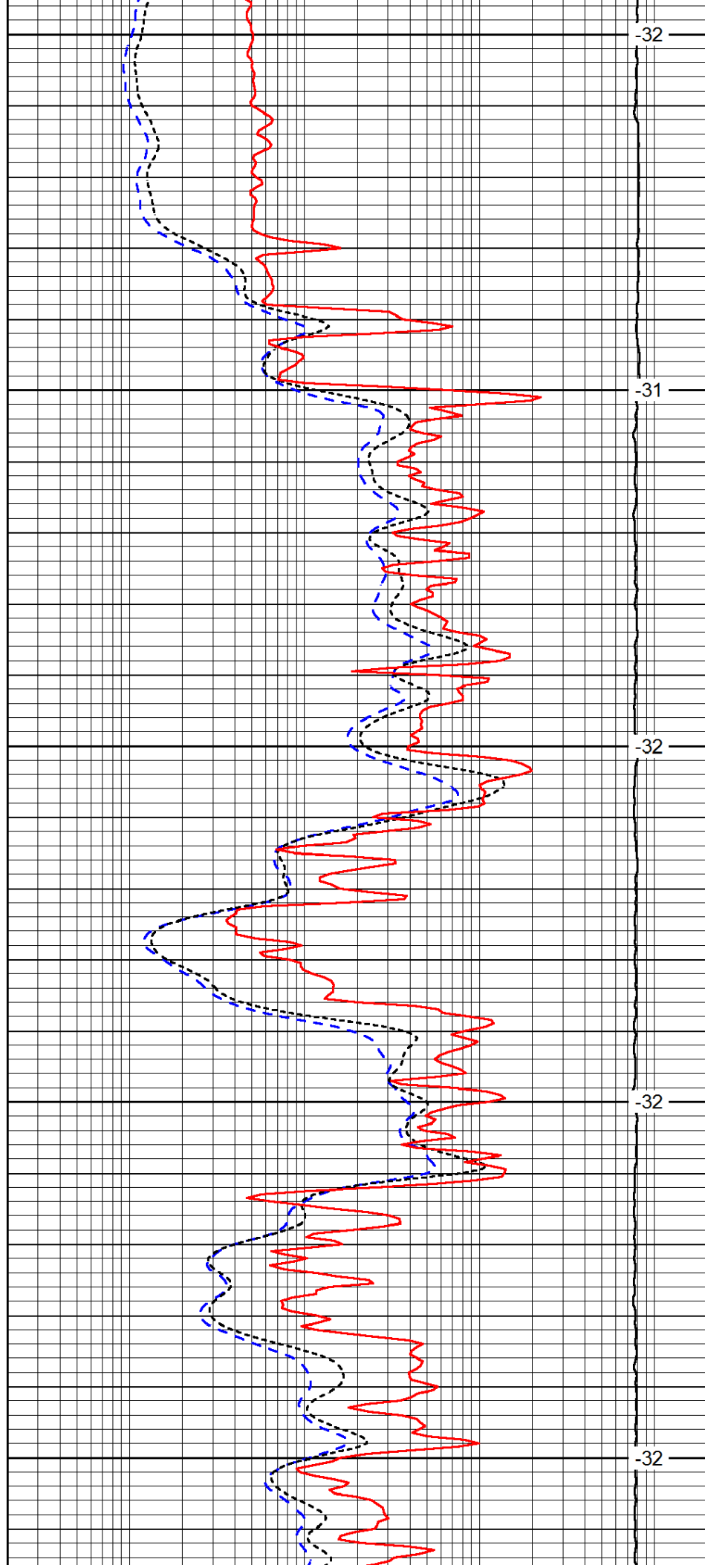
3700

3750

3800

3850

3900



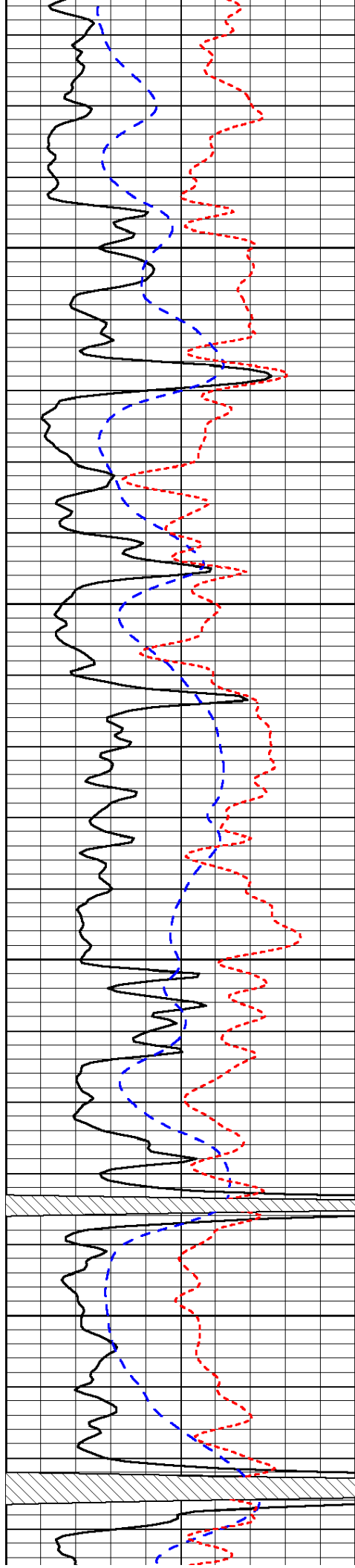
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-31

-32

-32

-32

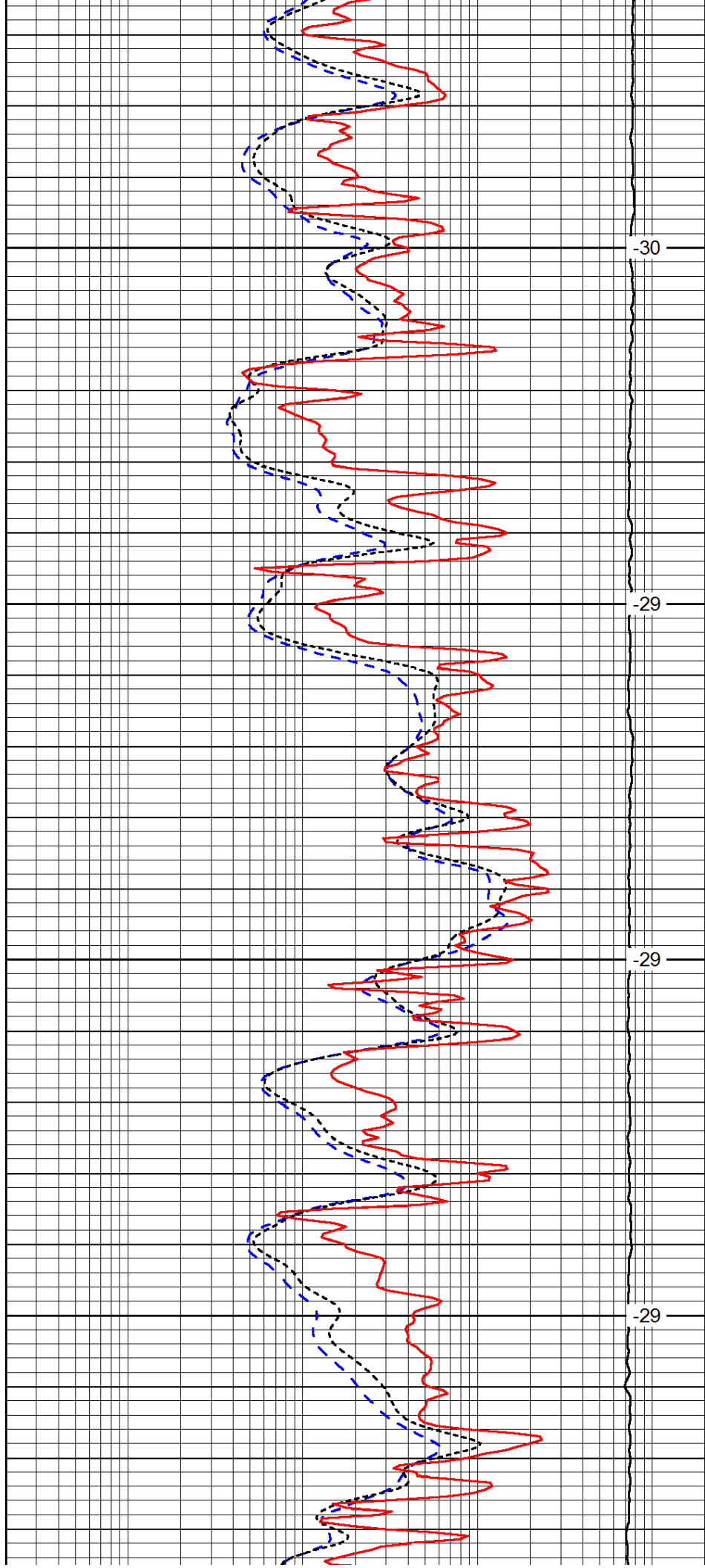


3950

4000

4050

4100

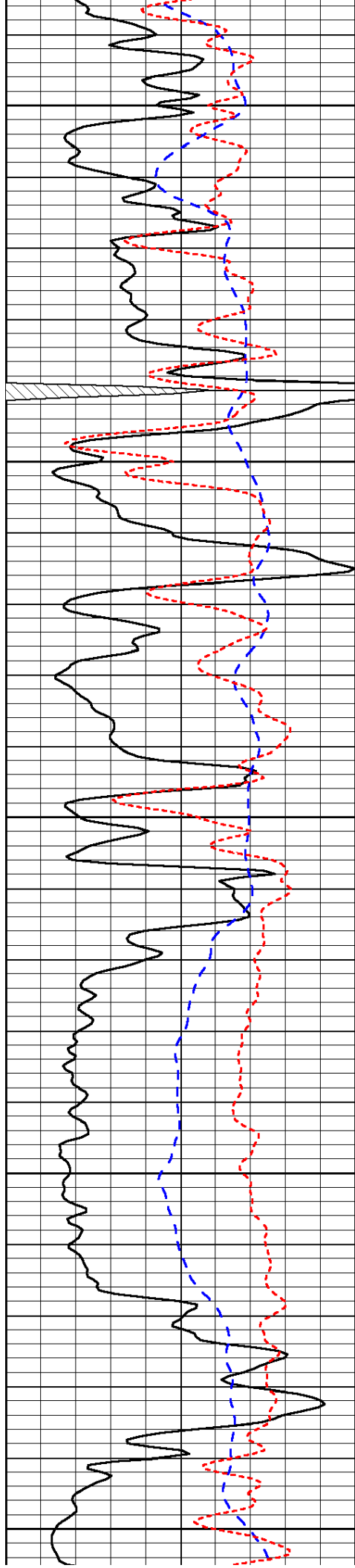


-30

-29

-29

-29



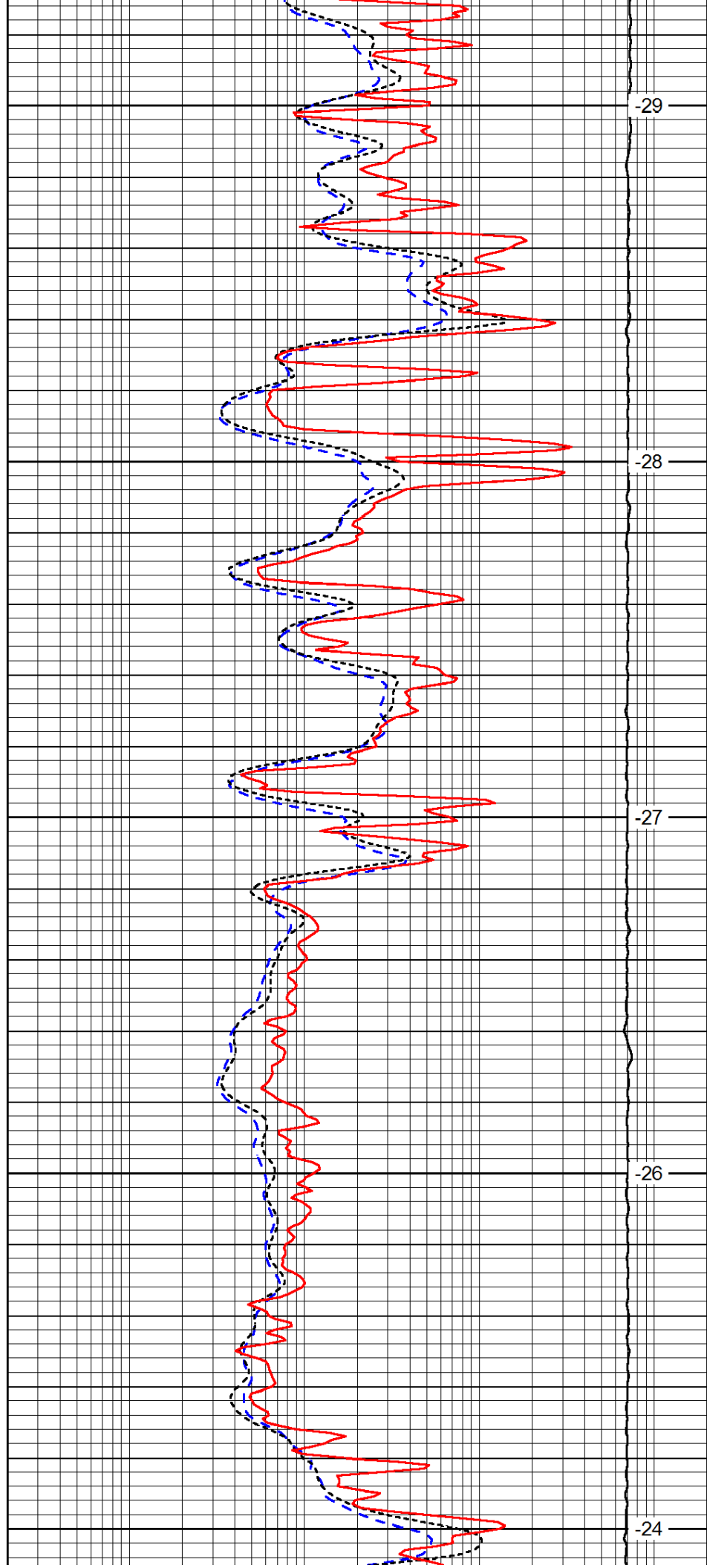
4150

4200

4250

4300

4350



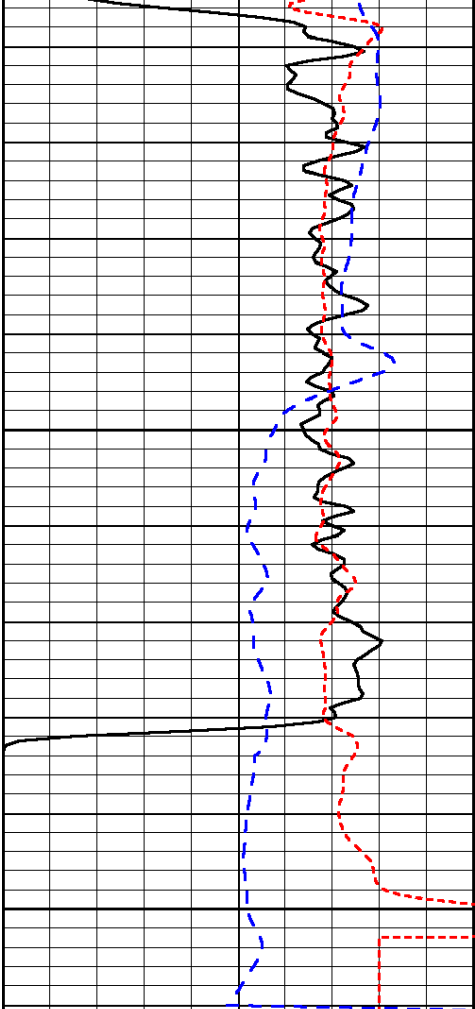
-29

-28

-27

-26

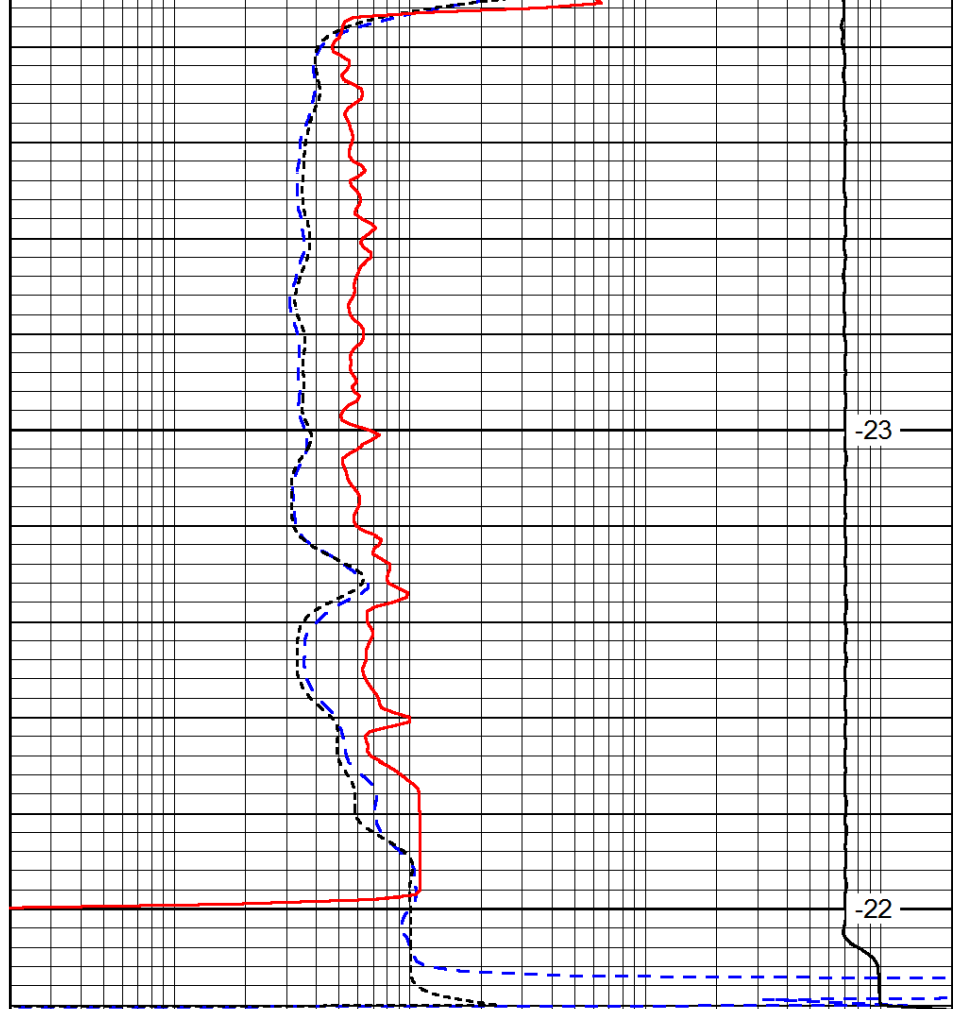
-24



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

4400

4450



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

LSPD