



Pioneer Energy Services

Dual Induction Log

15-065-23999-00-00

API No.

Company Ron's Oil Operations, Inc.

Well Keith #14-1

Field Railroad Southeast

County Graham State Kansas

Location 745' FNL & 615' FEL

Sec: 14 Twp: 8S Rge: 22W

Permament Datum Ground Level Elevation 2094

Log Measured From Kelly Bushing 5 Ft. Above Perm. Datum

Drilling Measured From Kelly Bushing

Other Services
CNL/CDL
MEL

Elevation

K.B. 2099

D.F. 2094

G.L. 2094

Date 1/7/2014

Run Number One

Depth Driller 3680

Depth Logger 3683

Bottom Logged Interval 3682

Top Log Interval 200

Casing Driller 8.625 @ 210

Casing Logger 216

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 2500

Density / Viscosity 9.5 50

pH / Fluid Loss 10.0 8.4

Source of Sample Flowline

Rm @ Meas. Temp 0.90 @ 30

Rmf @ Meas. Temp 0.68 @ 30

Rmc @ Meas. Temp 1.22 @ 30

Source of Rmf / Rmc Charts

Rm @ BHT 0.24 @ 115

Operating Rig Time 4 Hours

Max Rec. Temp. F 115

Equipment Number 91

Location Hays

Recorded By D. Schmidt

Witnessed By Chris Bean

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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

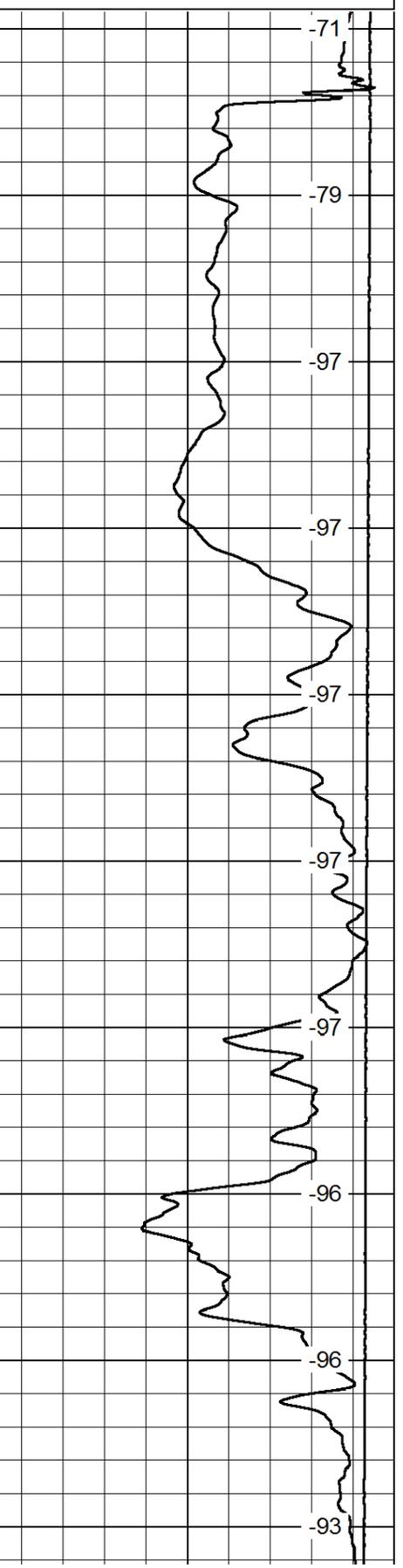
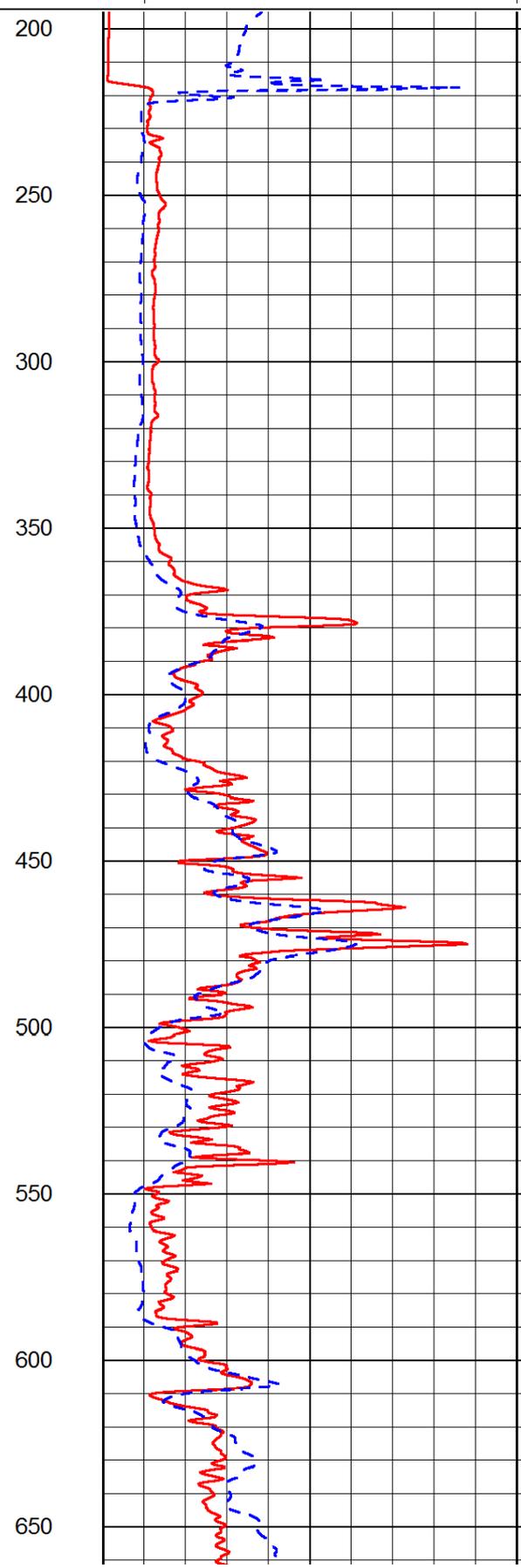
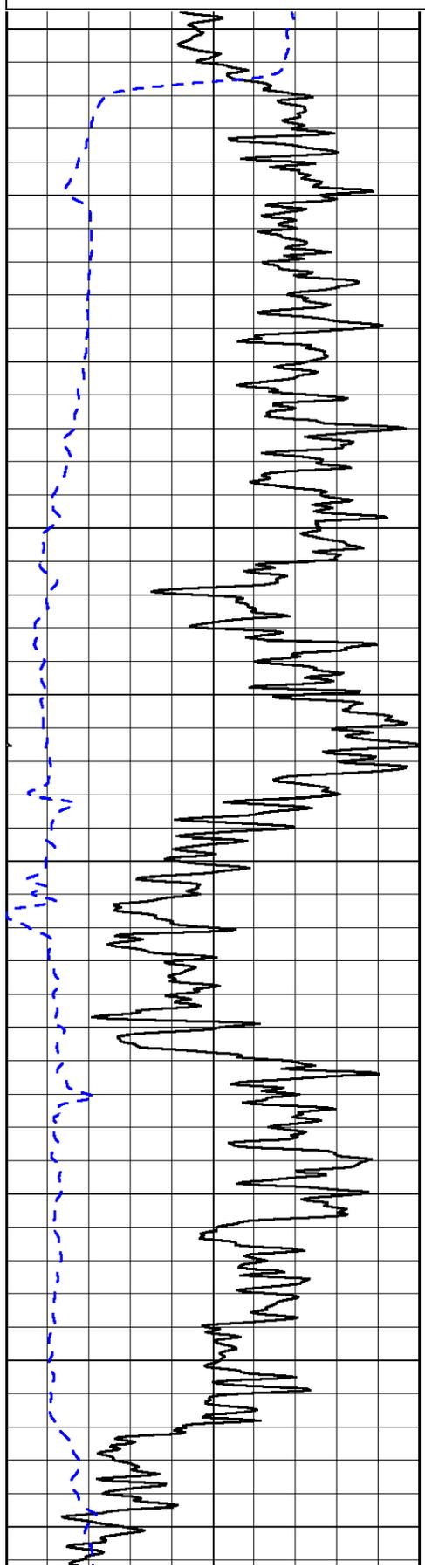
Thank you for using Pioneer Energy Services
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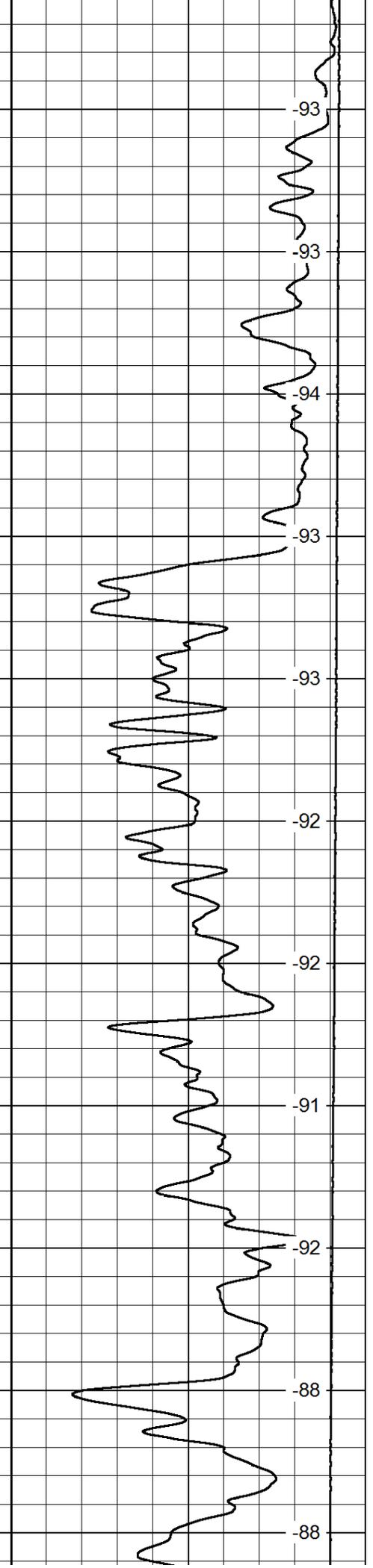
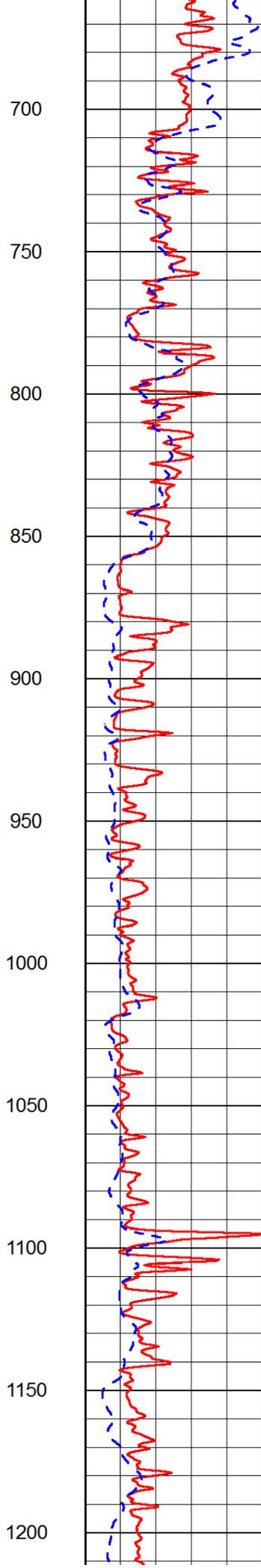
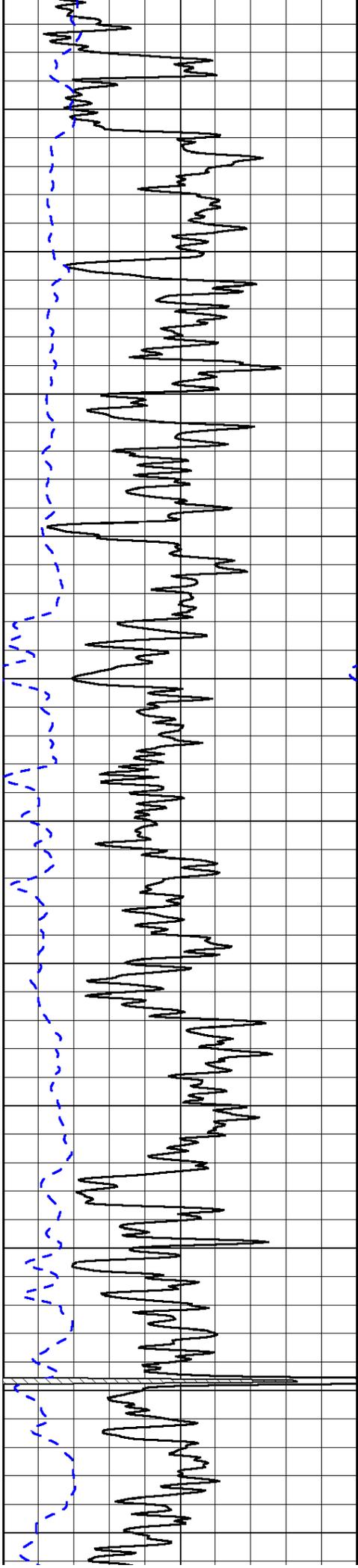
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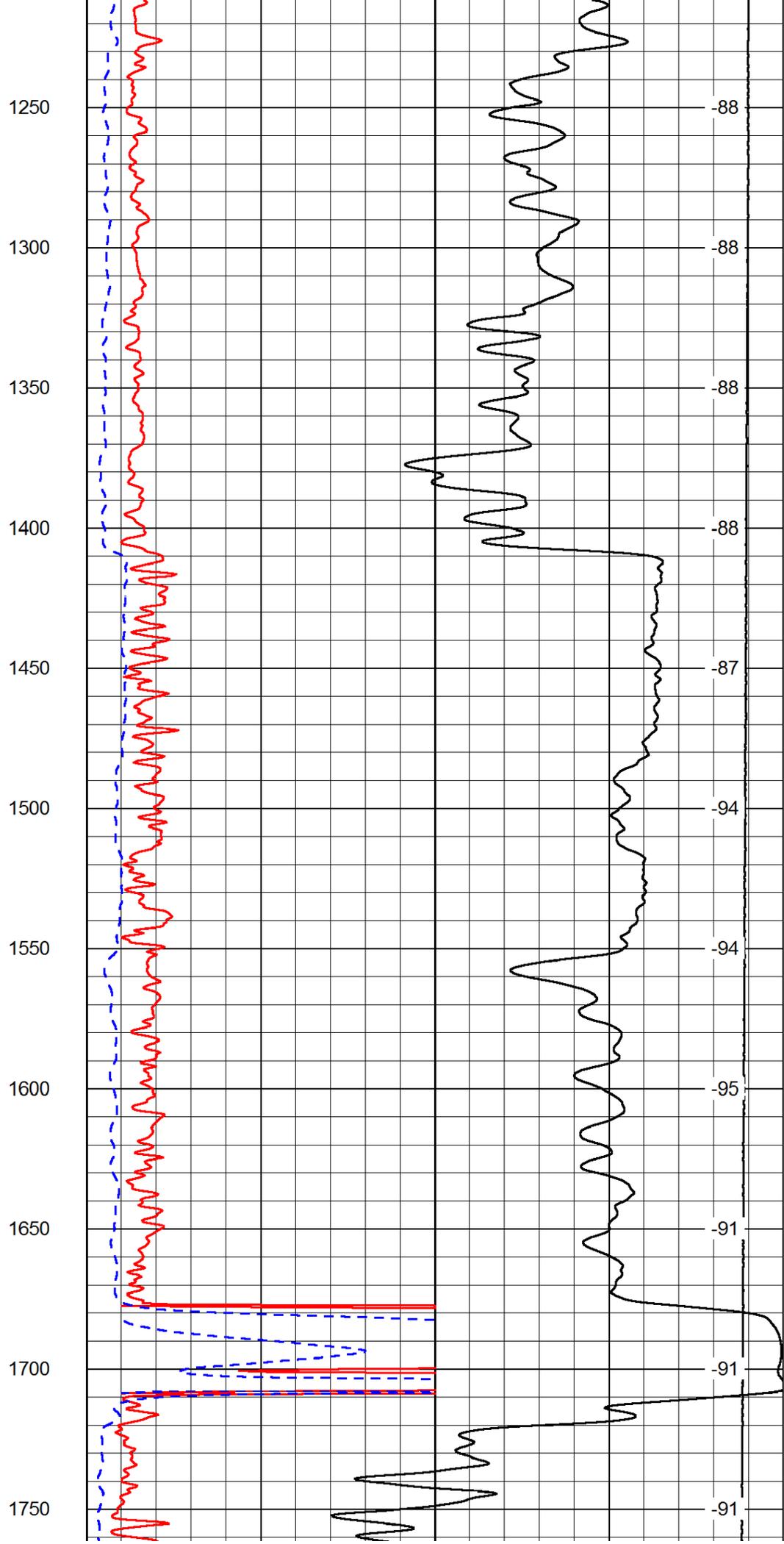
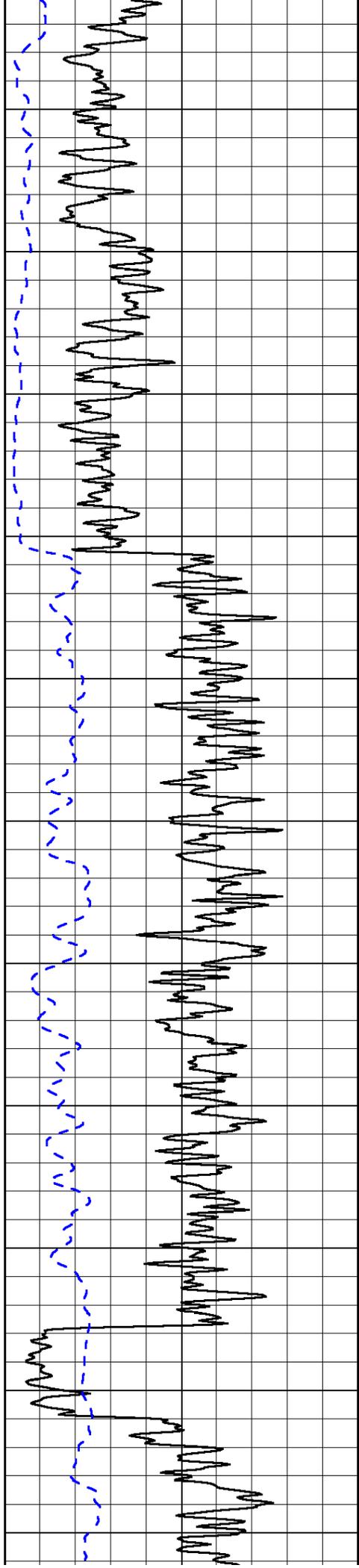
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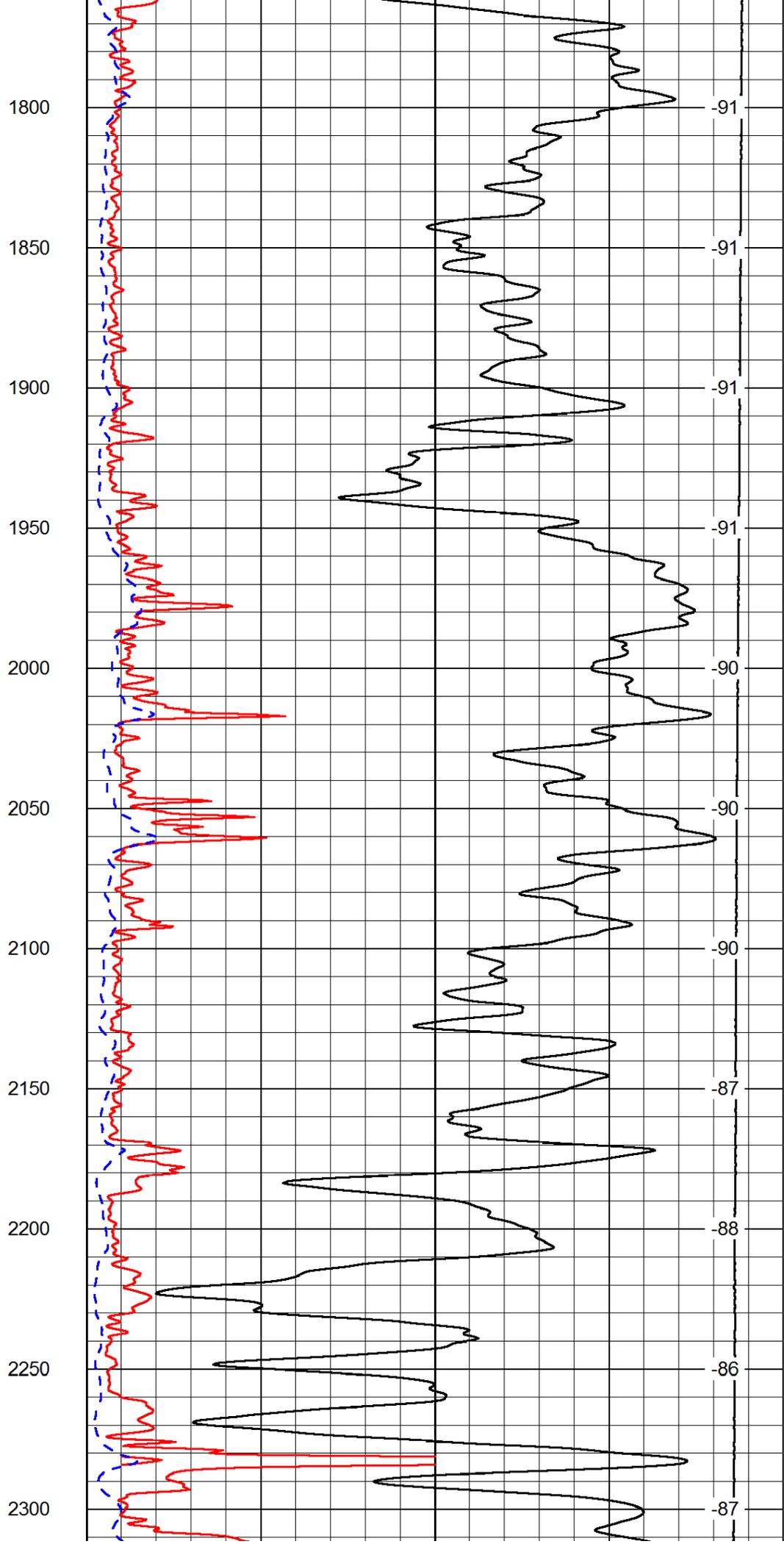
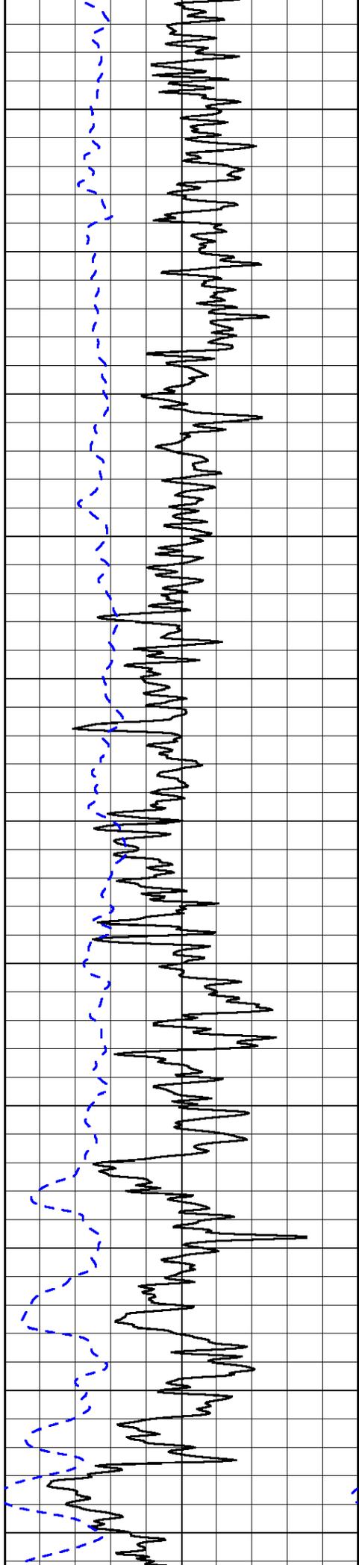
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0	Deep Resistivity	50
1000	Conductivity	0
15000	Line Tension	0
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50	Deep Resistivity	500

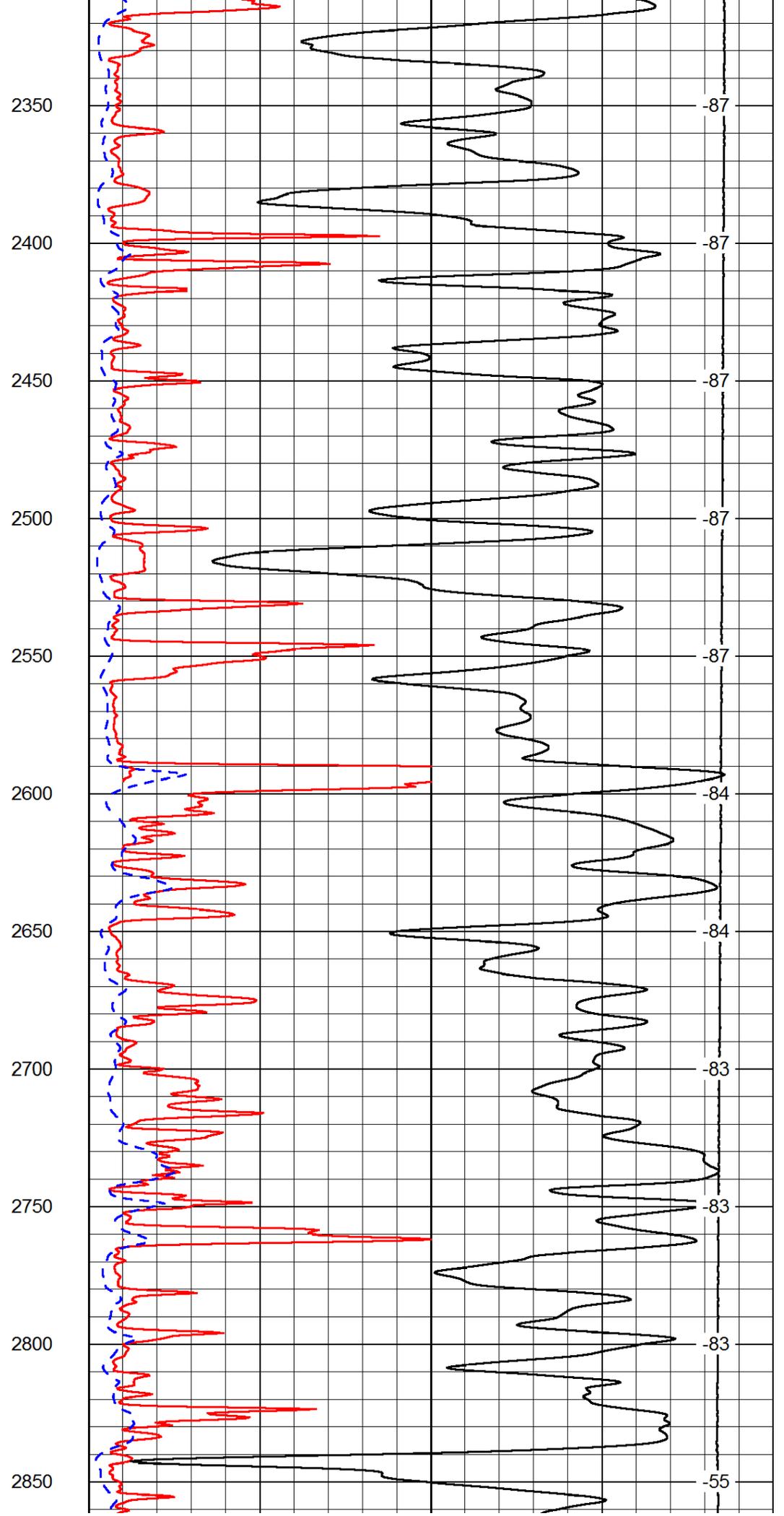
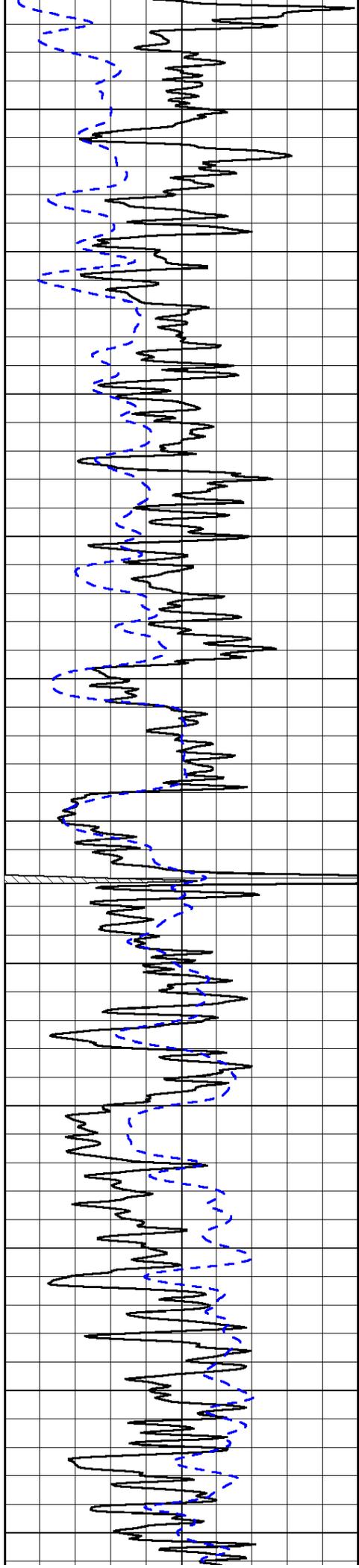
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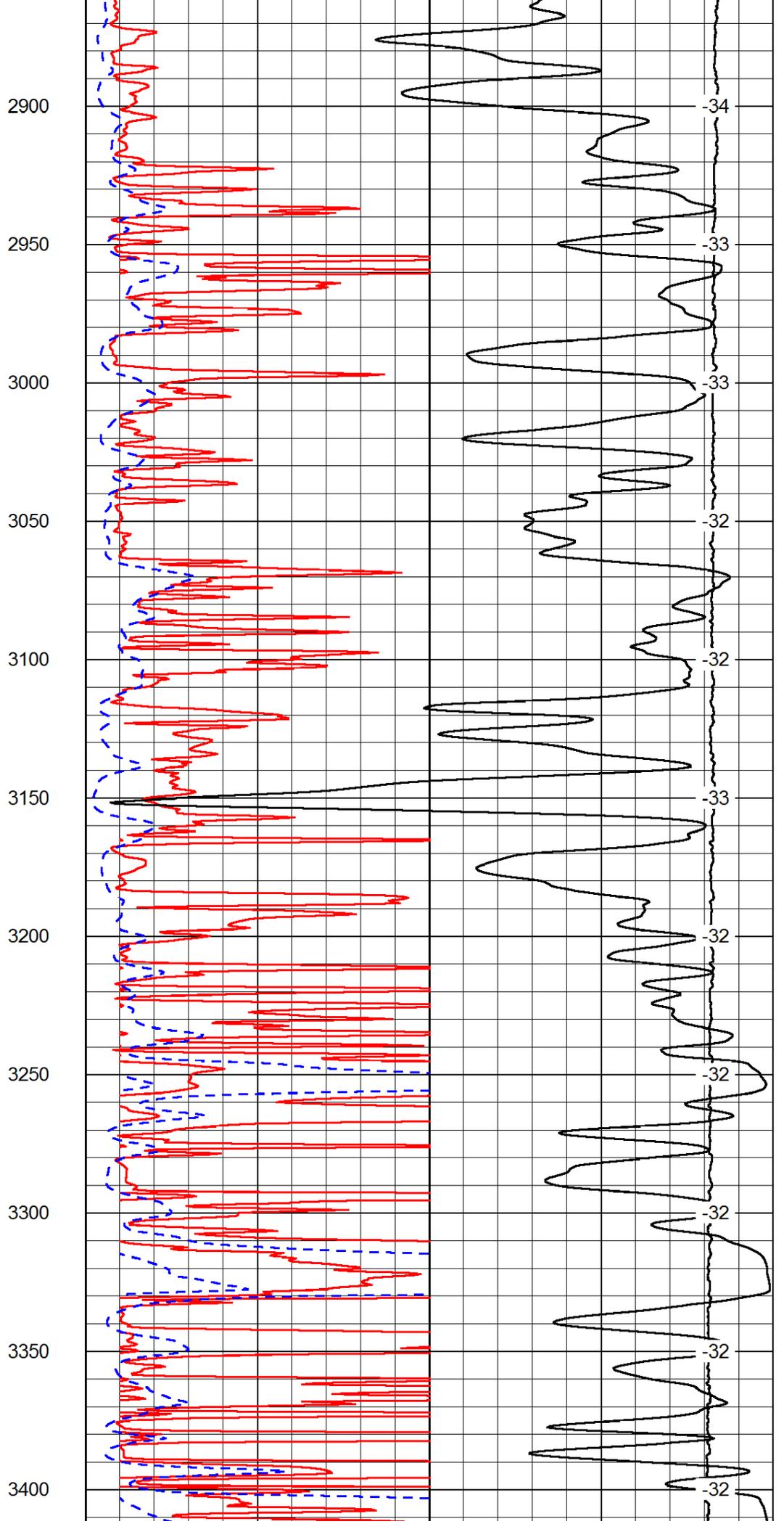
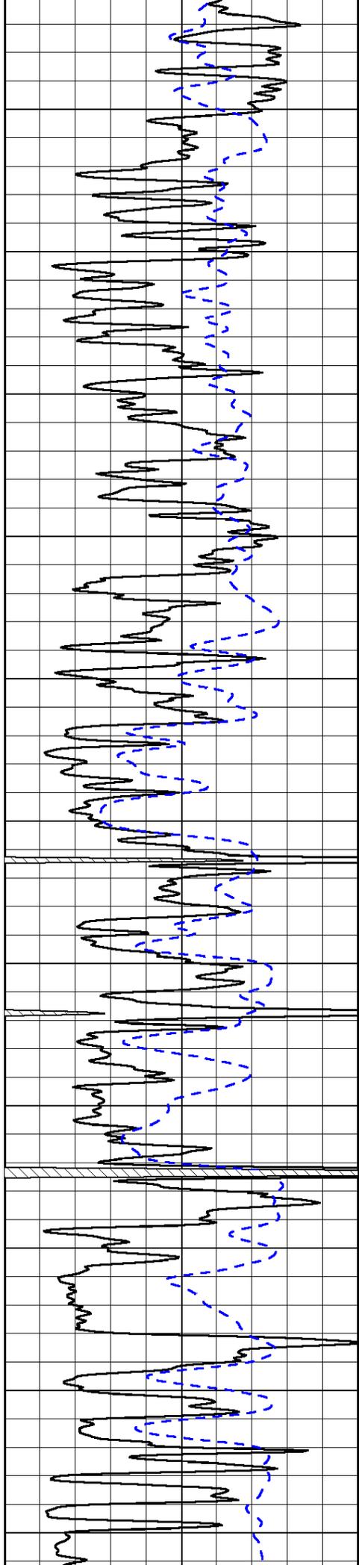


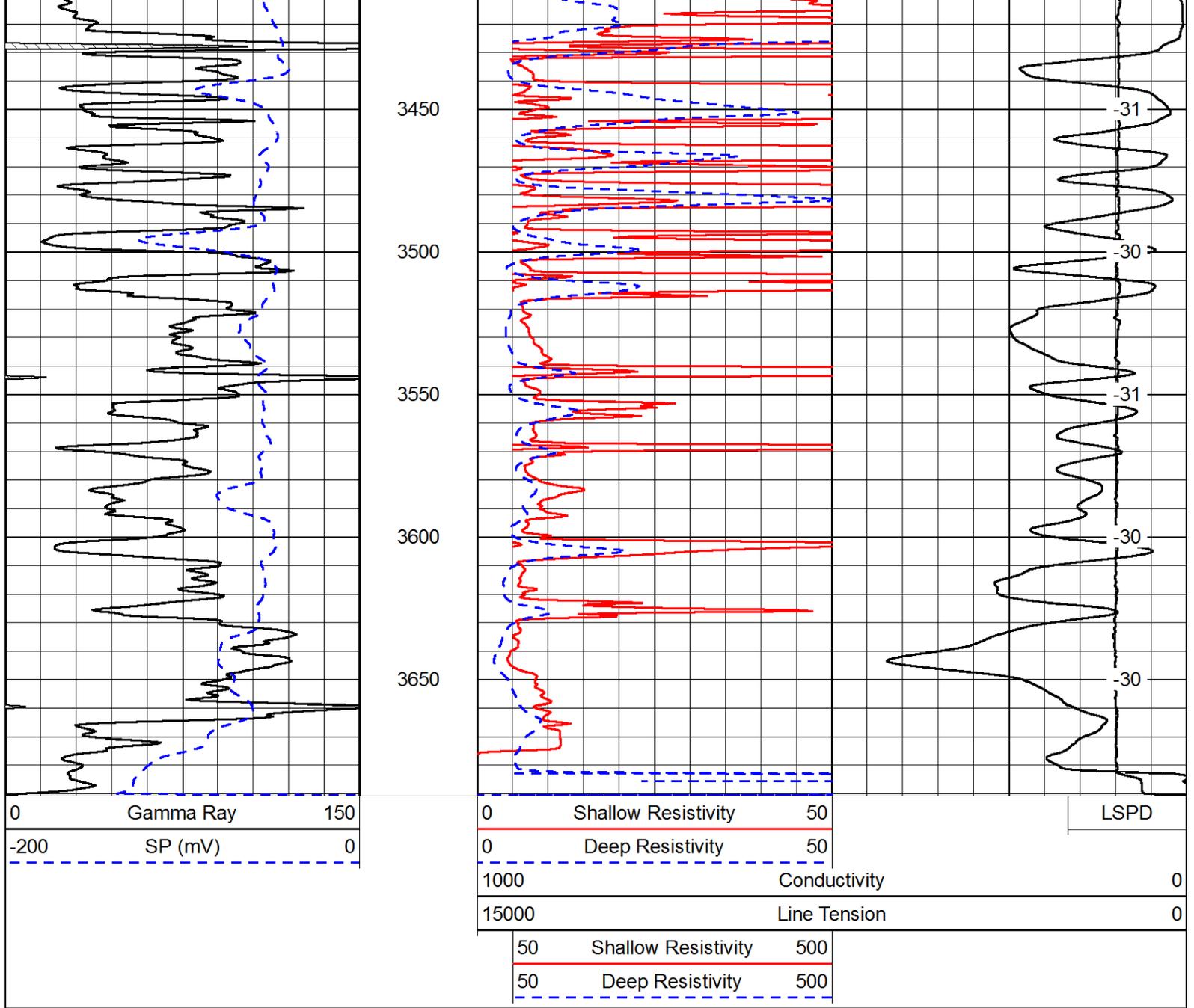




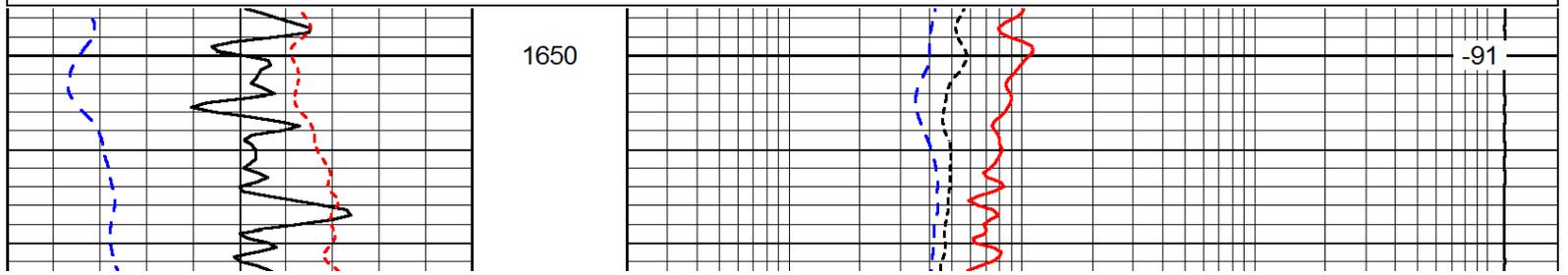
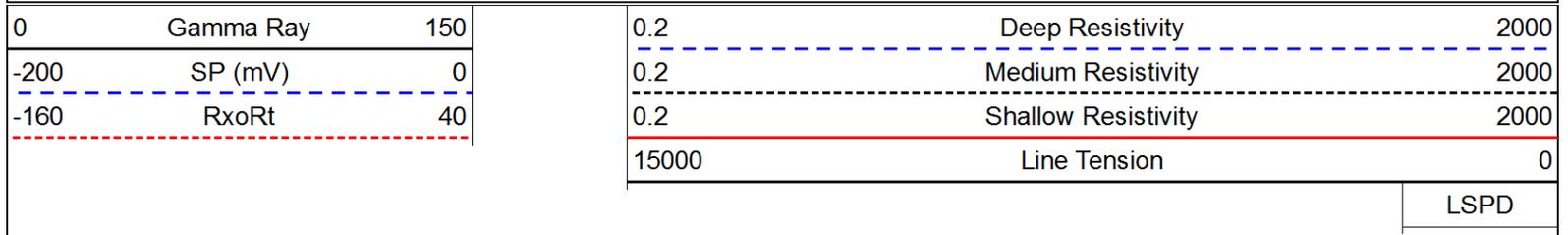


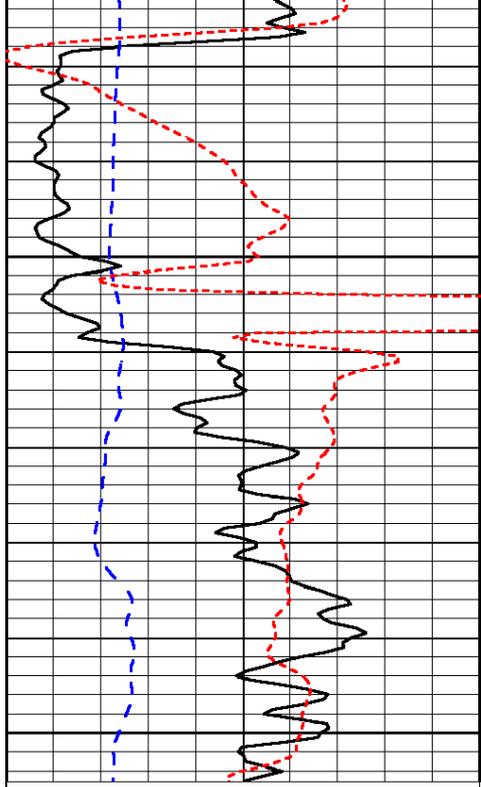






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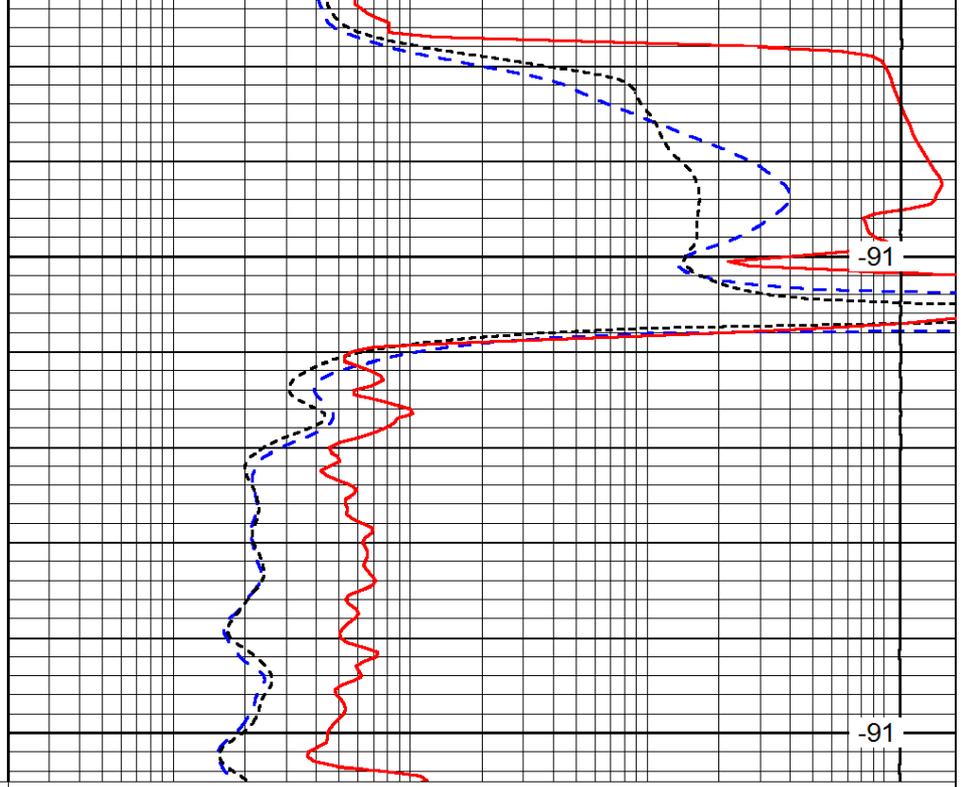




0	Gamma Ray	150
-200	SP (mV)	0
-160	RxoRt	40

1700

1750



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

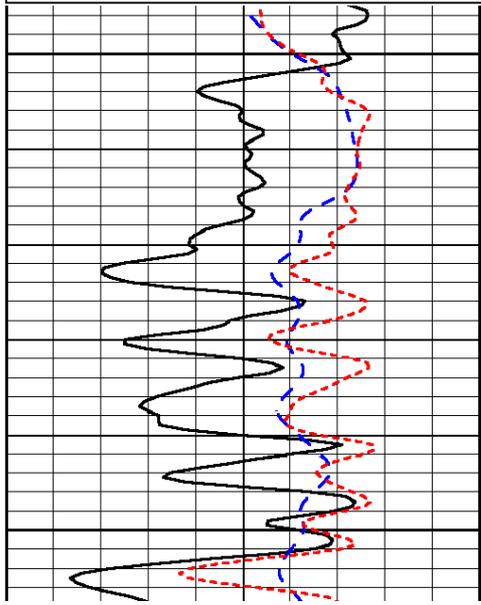
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-200	SP (mV)	0
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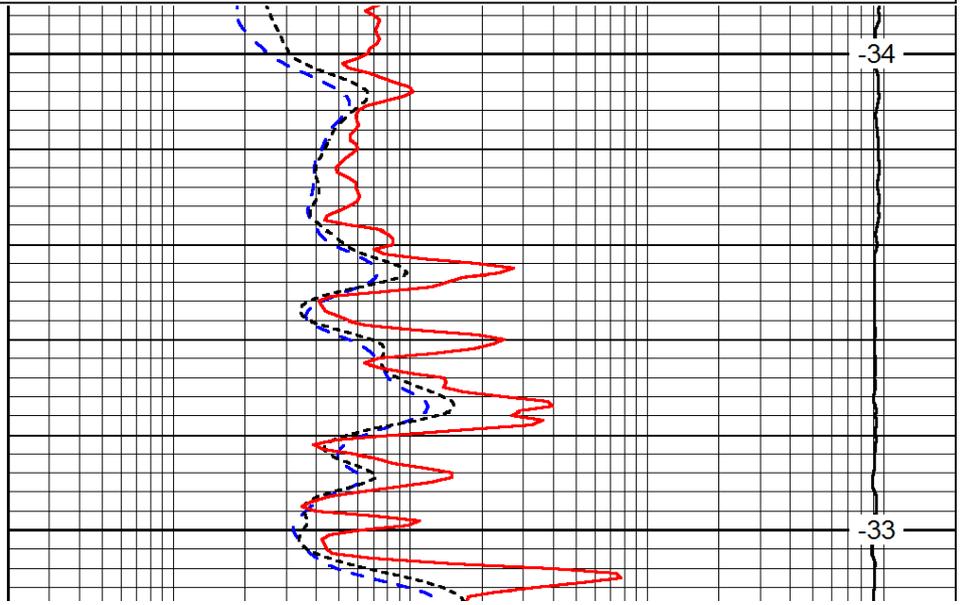
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0.2	Shallow Resistivity	2000
15000	Line Tension	0

LSPD



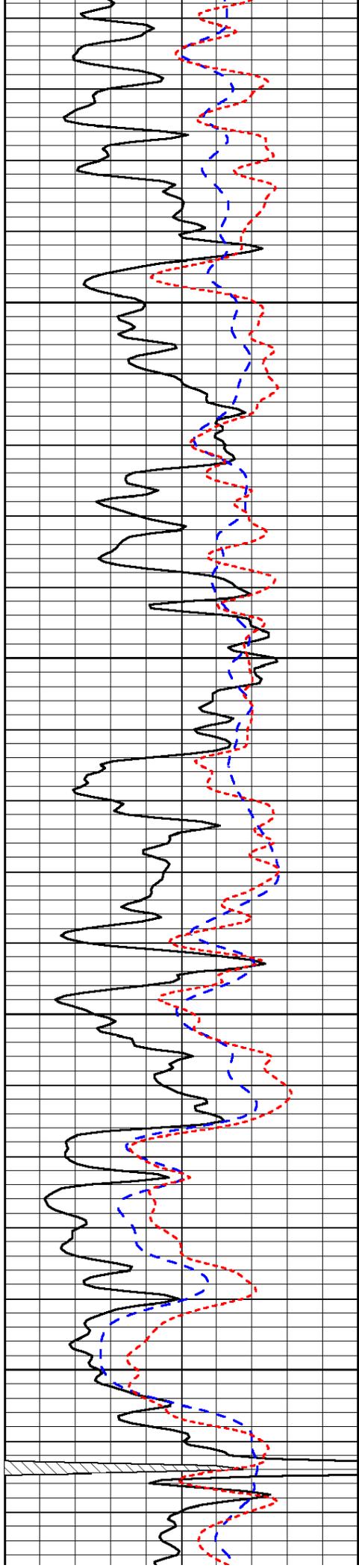
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2950



-34

-33

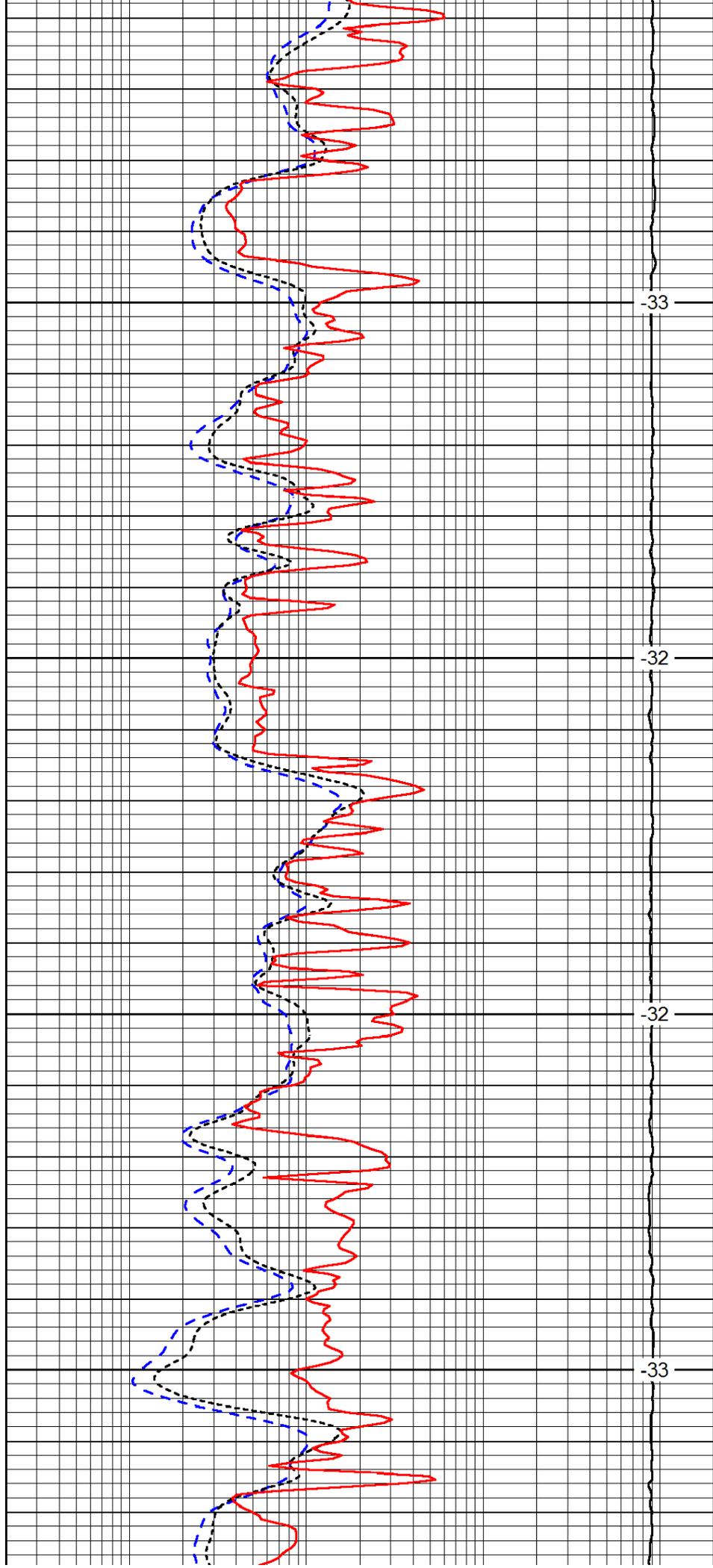


3000

3050

3100

3150

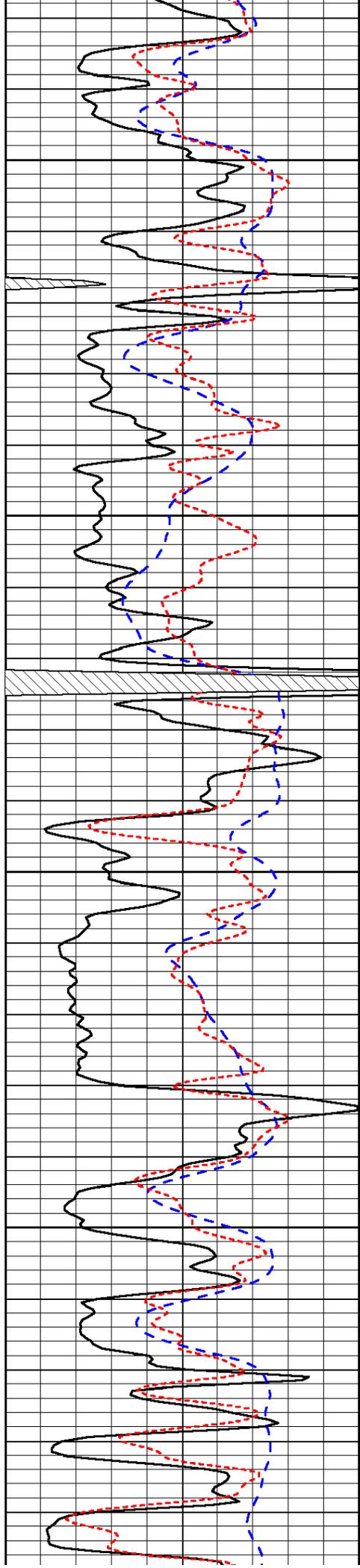


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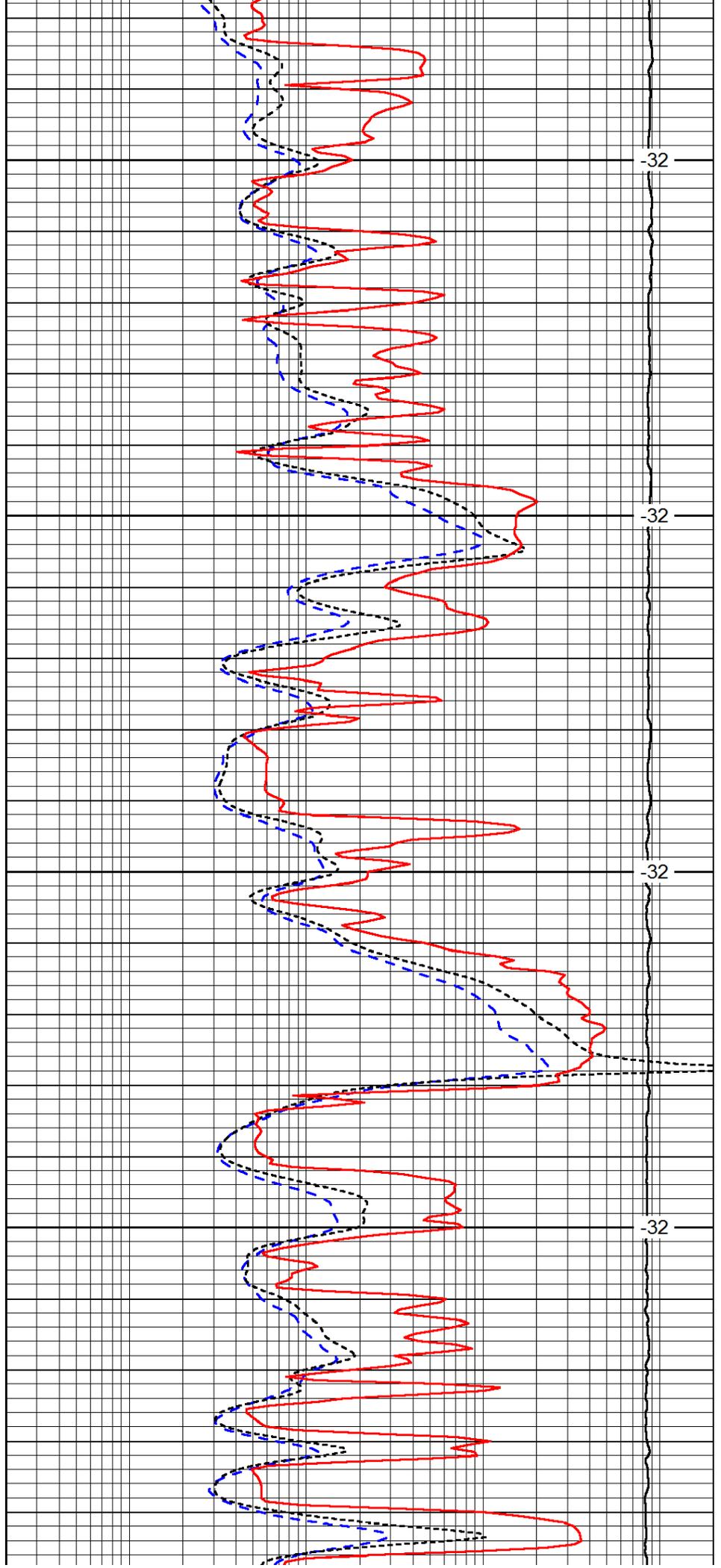


3200

3250

3300

3350

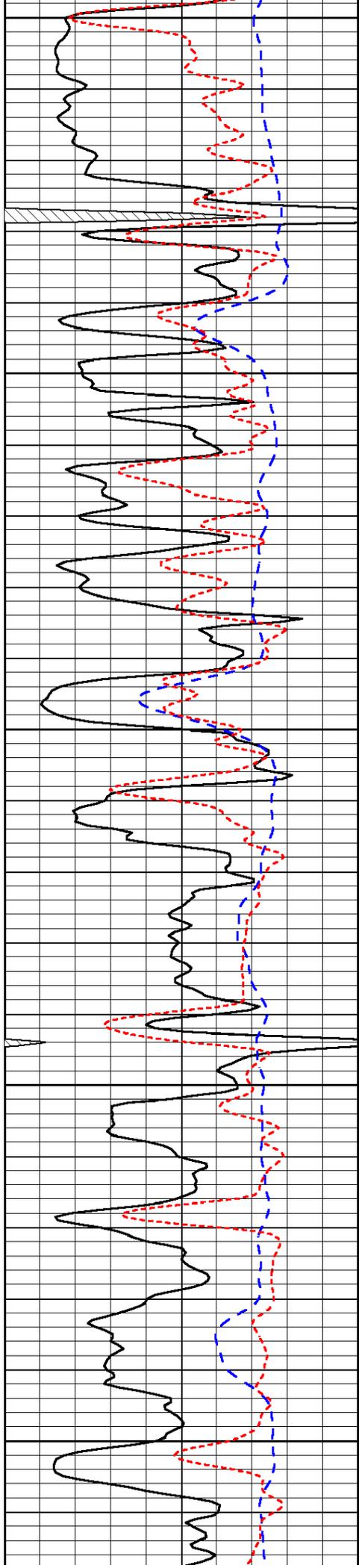


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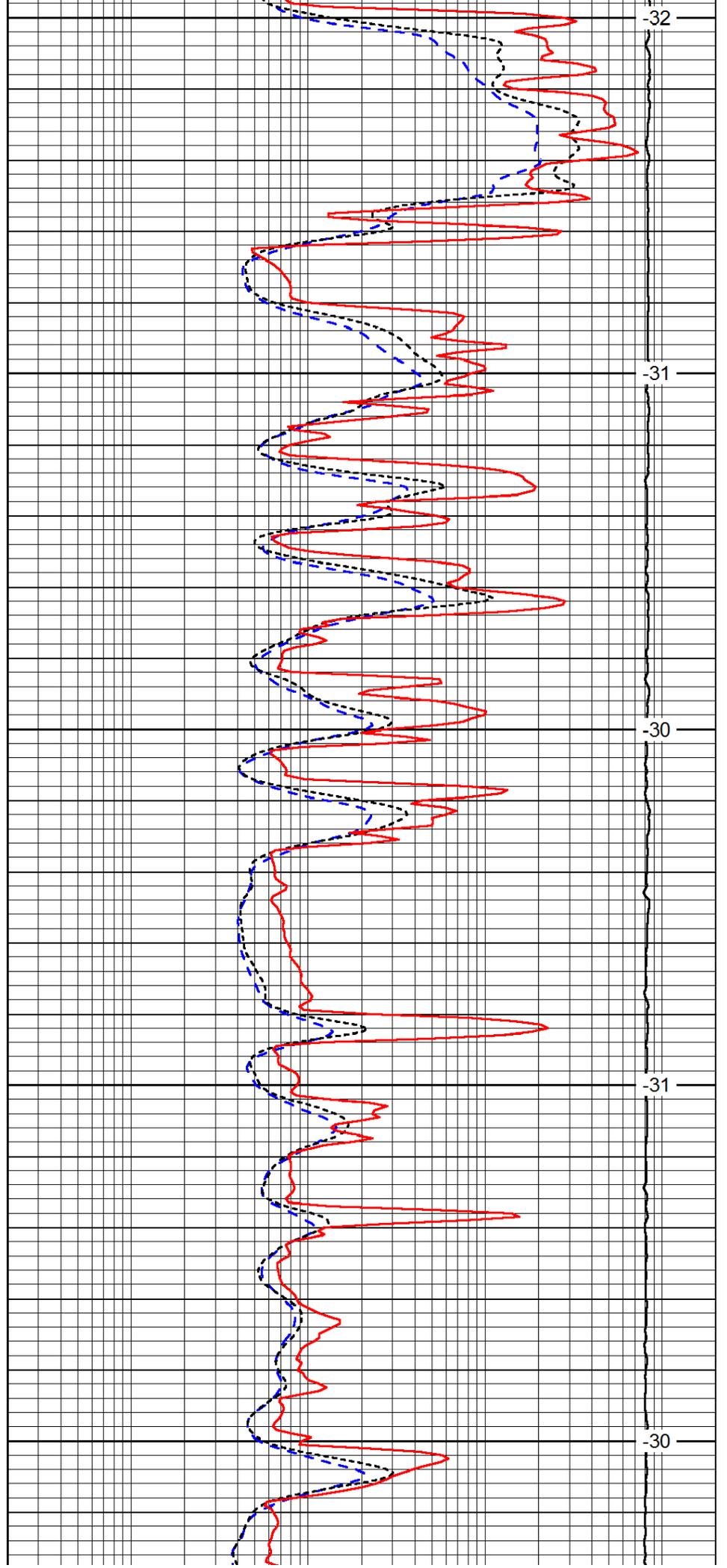
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3450

3500

3550

3600



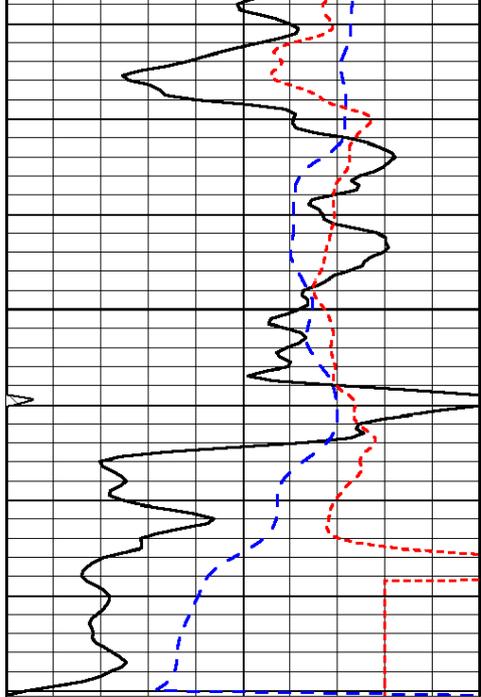
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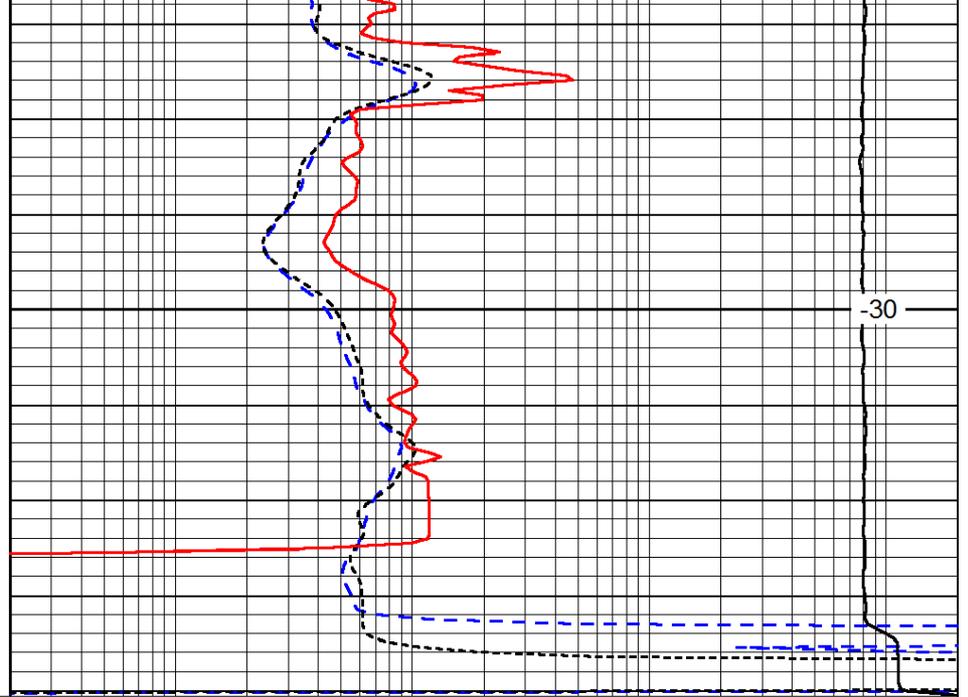
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-30



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-200	SP (mV)	0
-160	RxoRt	40

3650



-30

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

LSPD