



Pioneer Energy Services

Dual Induction Log

15-155-20255-00-01

API No.

Company **Novy Oil & Gas, Inc.**

Well **Tonn # 1**

Field **Zenith - Peace Creek**

County **Reno** State **Kansas**

Location **990' FSL & 2310' FWL**

Other Services
CNL/CDL

Sec: **11** Twp: **23 S** Rge: **10 W**

Permanent Datum **Ground Level** Elevation **1758**

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

Elevation
K.B. 1767
D.F. 1758
G.L. 1758

Date **01/10/2013**

Run Number **One**

Depth Driller **3794**

Depth Logger **3787**

Bottom Logged Interval **3786**

Top Log Interval **250**

Casing Driller **8.625 @ 269**

Casing Logger **273**

Bit Size **7.875**

Type Fluid in Hole **Chemical**

Salinity,ppm CL **50,000**

Density / Viscosity **9.1 35**

pH / Fluid Loss **9.0 N/C**

Source of Sample **Flowline**

Rm @ Meas. Temp **0.08 @ 46**

Rmf @ Meas. Temp **0.06 @ 46**

Rmc @ Meas. Temp **0.11 @ 46**

Source of Rmf / Rmc **Charts**

Rm @ BHT **0.03 @ 116**

Operating Rig Time **5 Hours**

Max Rec. Temp. F **116**

Equipment Number **91**

Location **Hays**

Recorded By **D. Schmidt**

Witnessed By **Mike Novy**

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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
 St. John,
 4 North to 4th Street, 19 East to Netherland Rd, 1/4 North,
 East Into

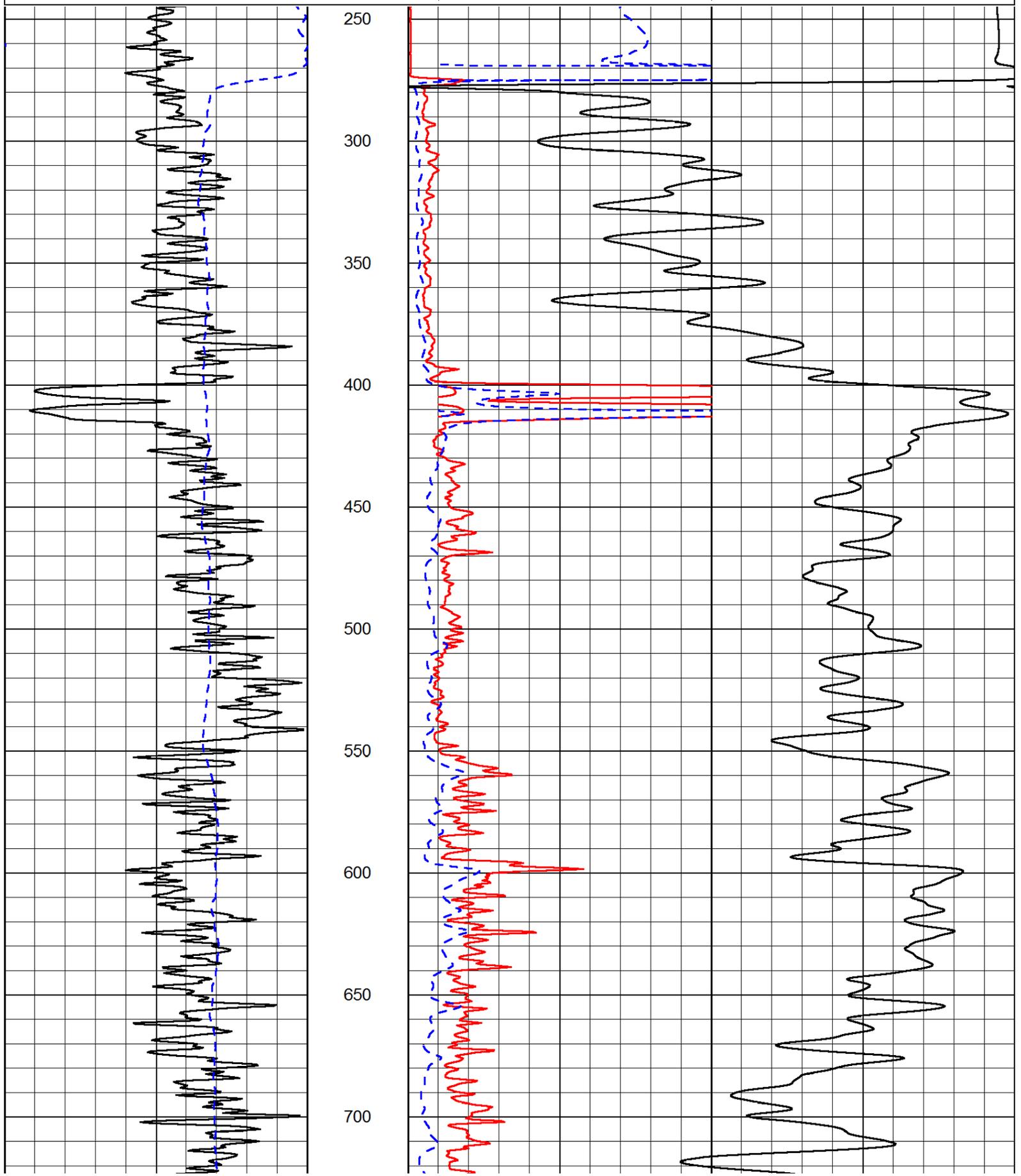
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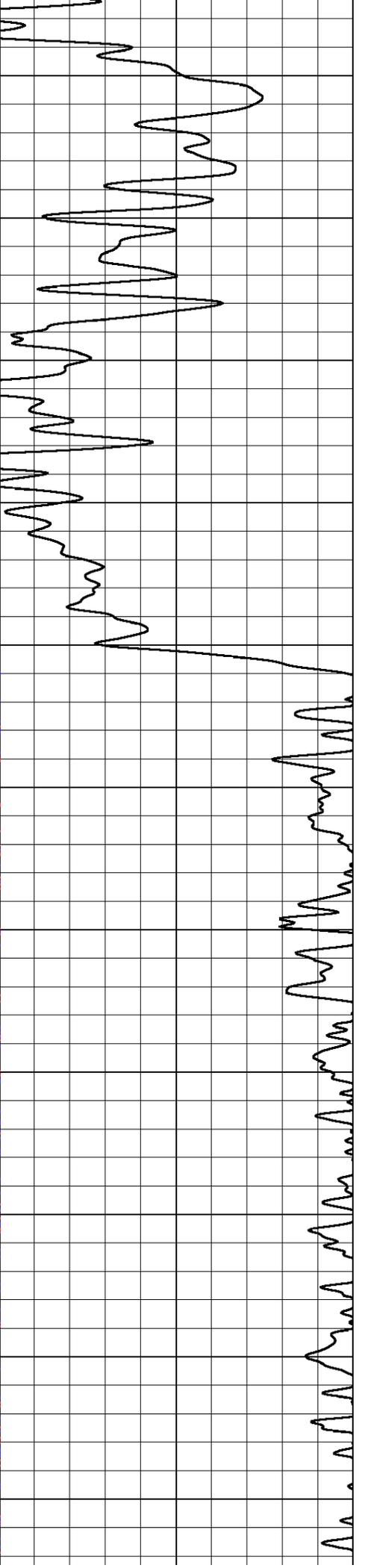
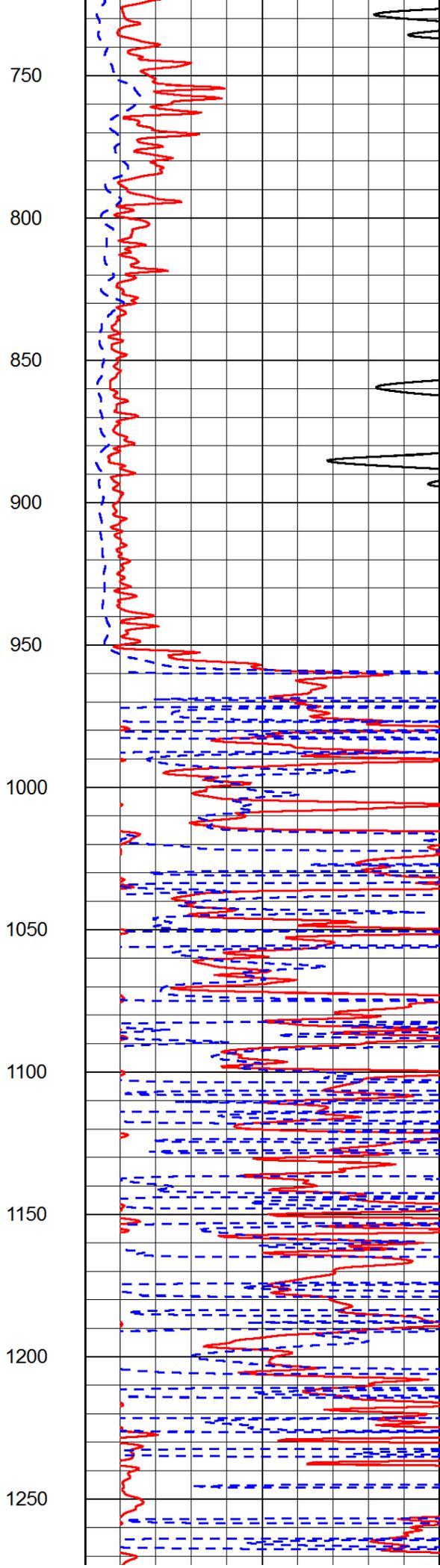
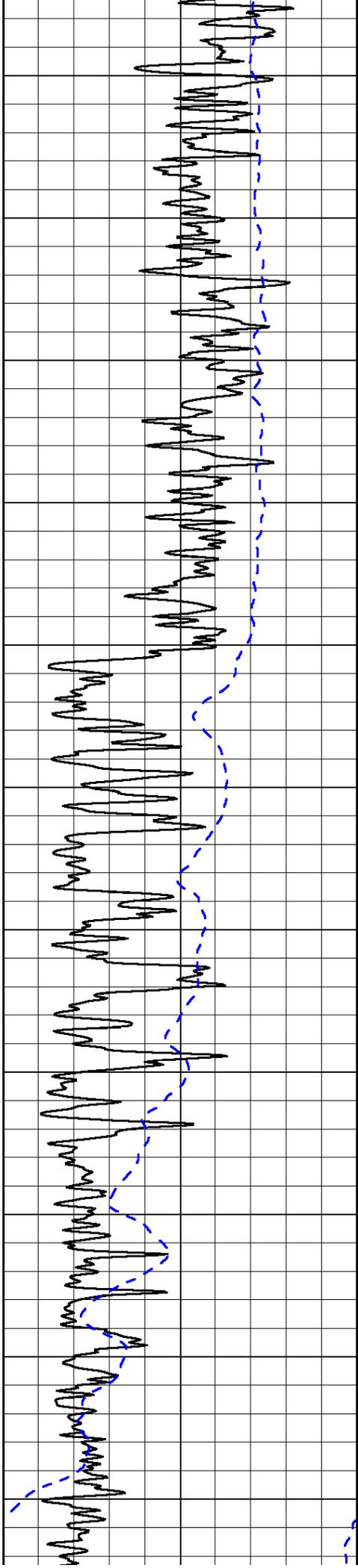
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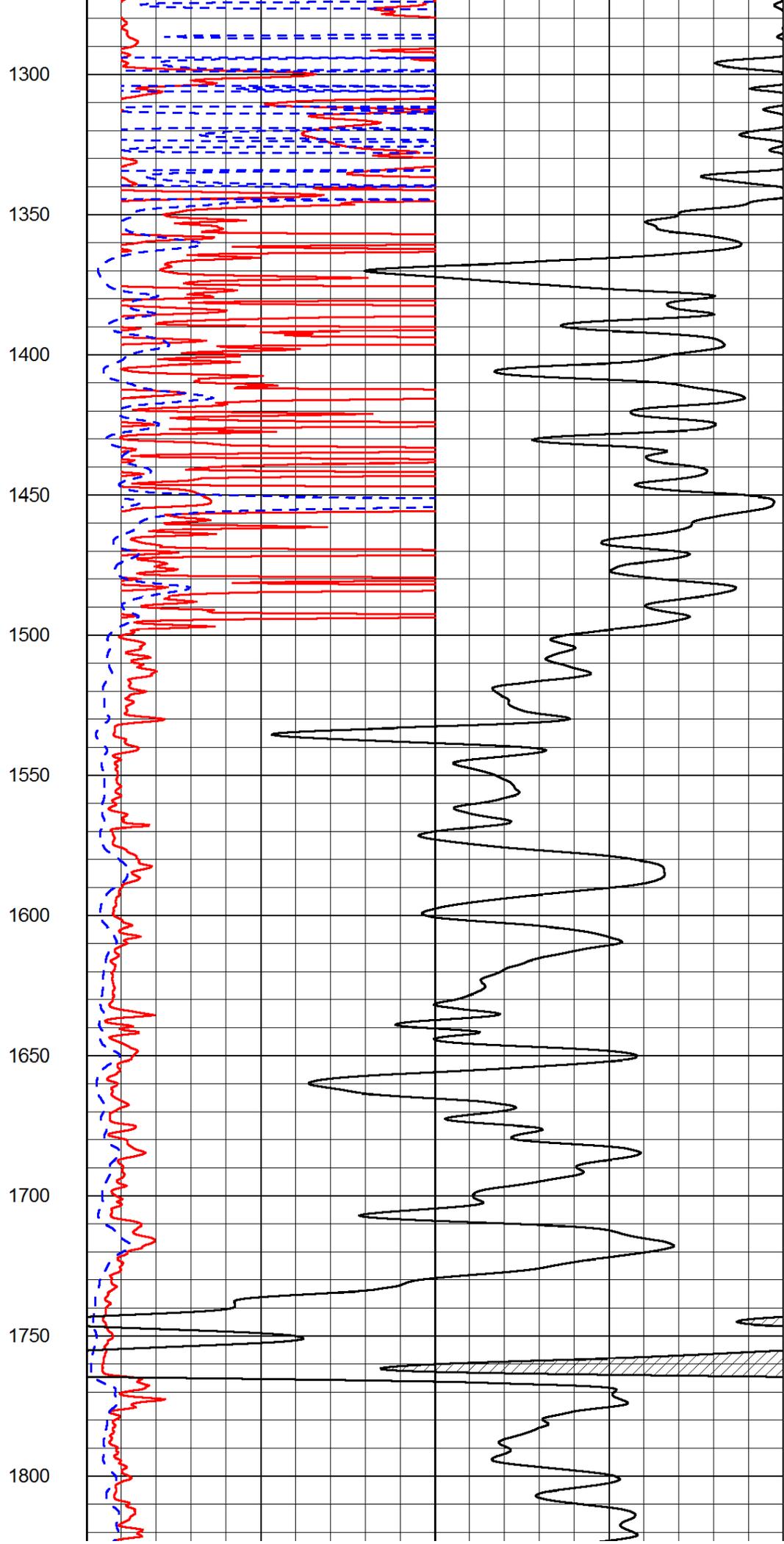
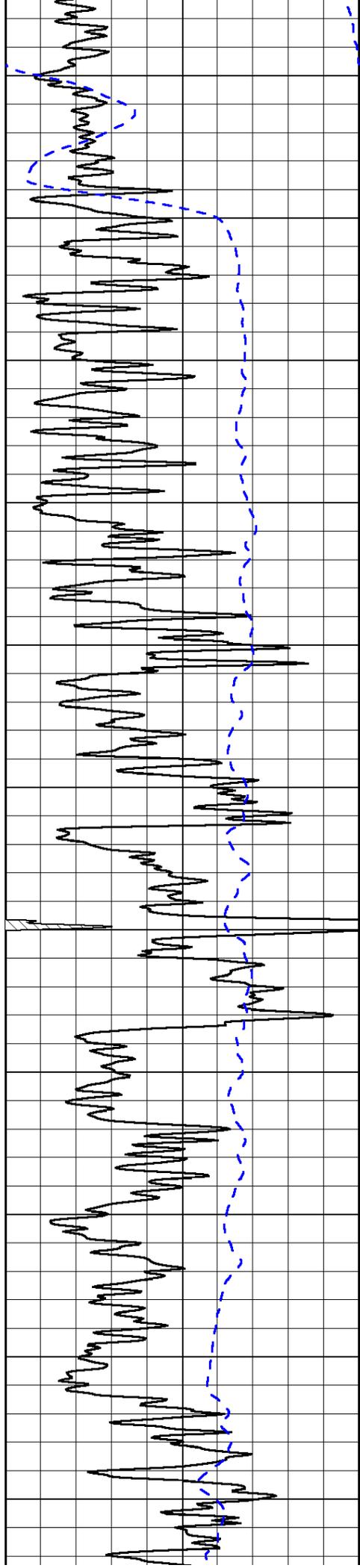
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0	Deep Resistivity	50

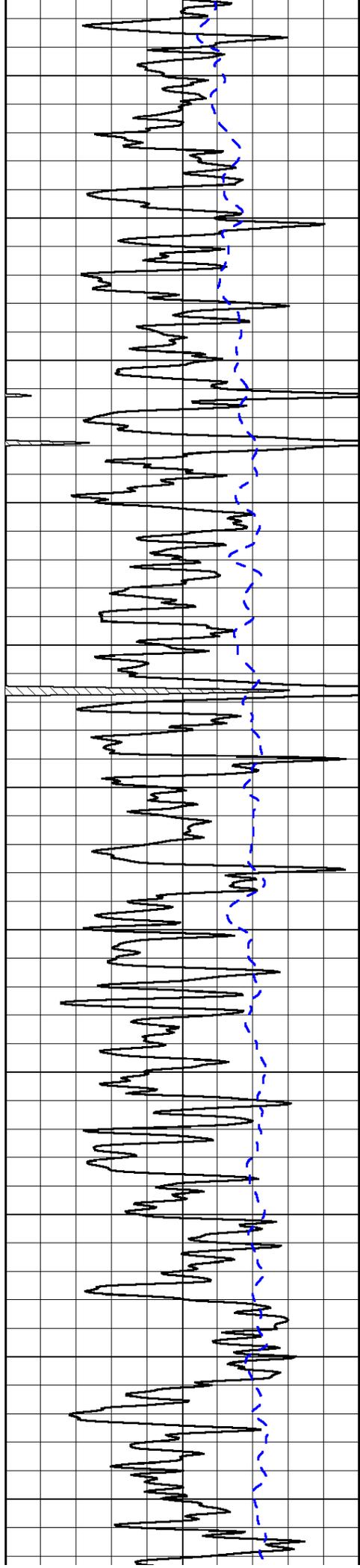
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50	Shallow Resistivity	500
50	Deep Resistivity	500

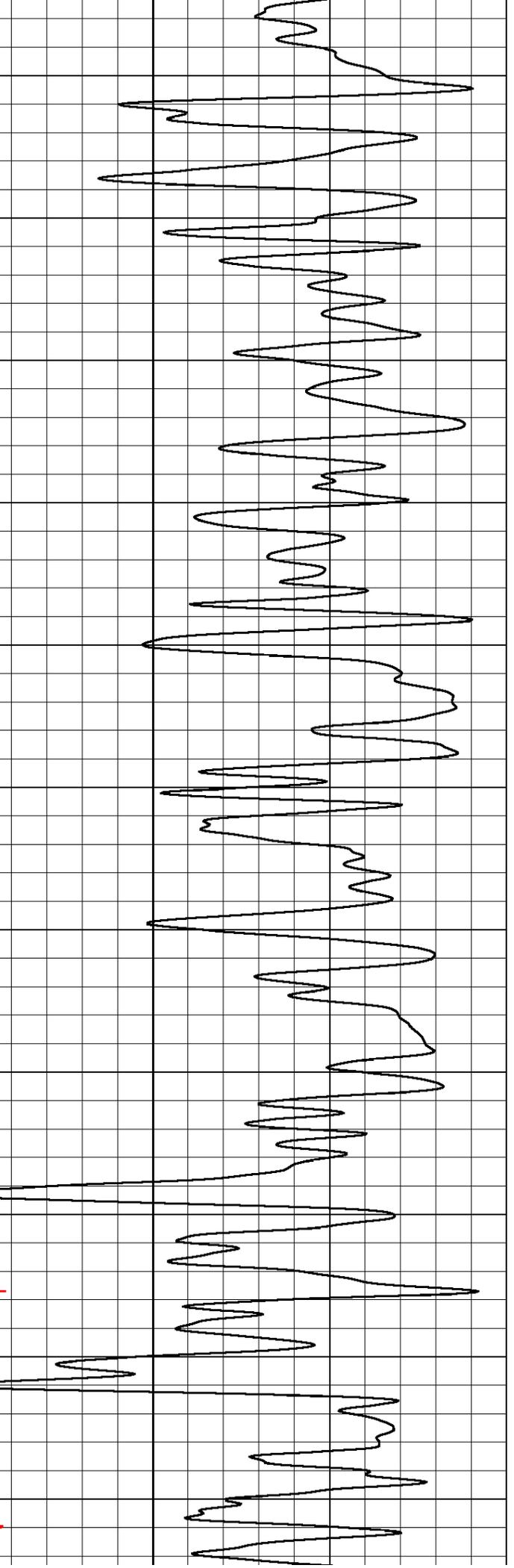
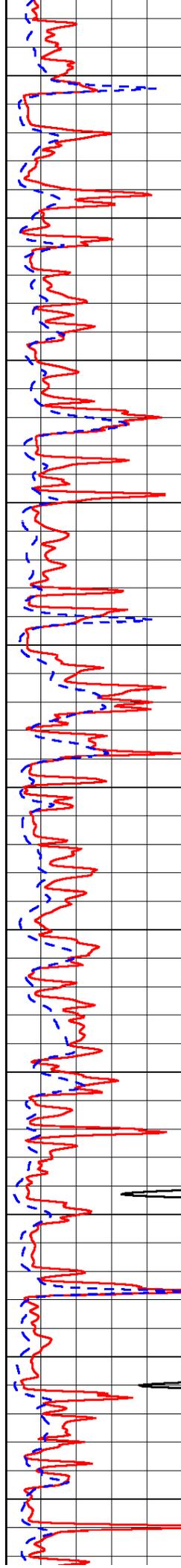


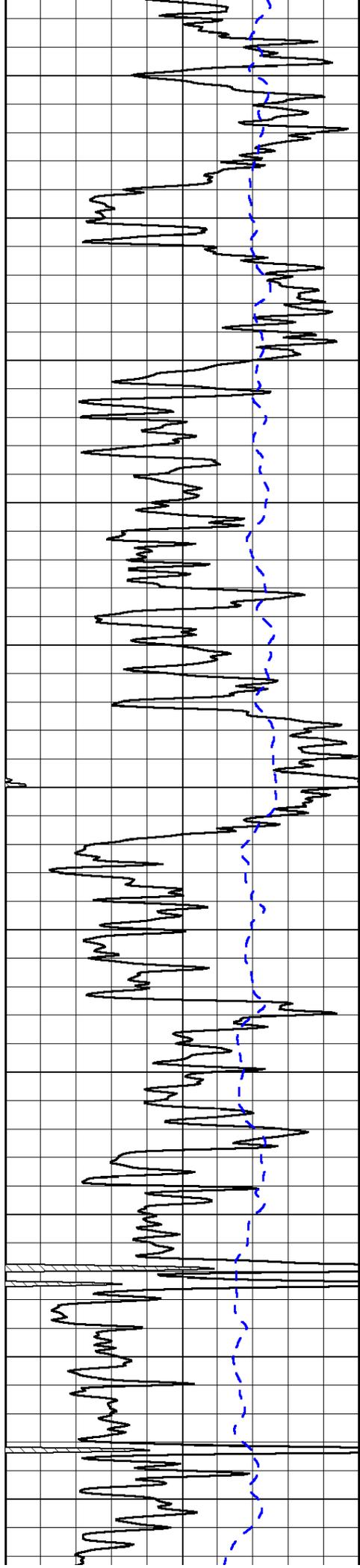




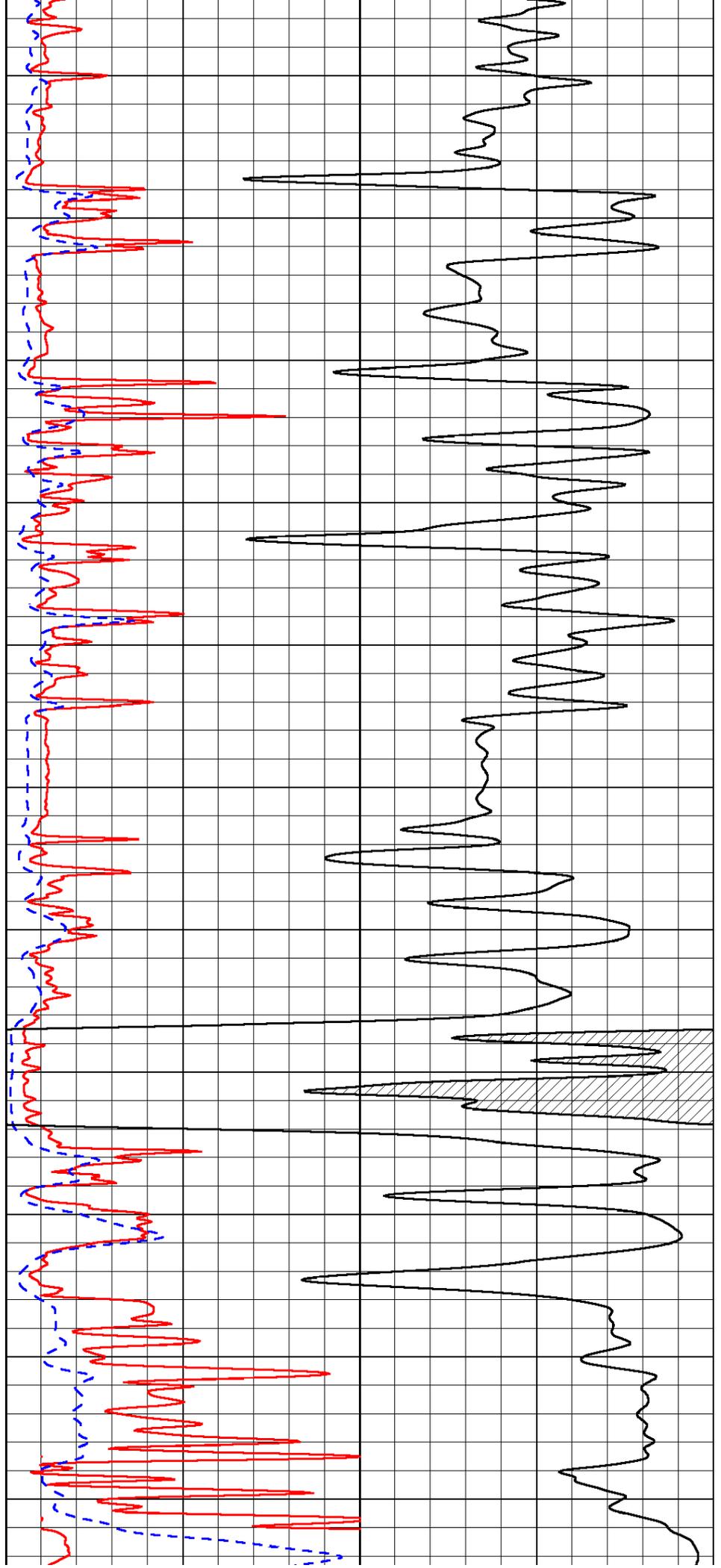


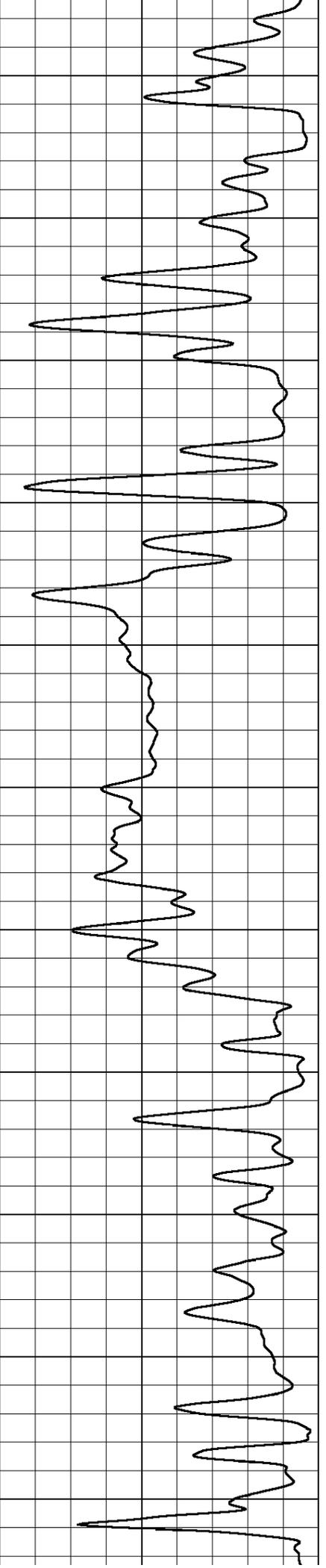
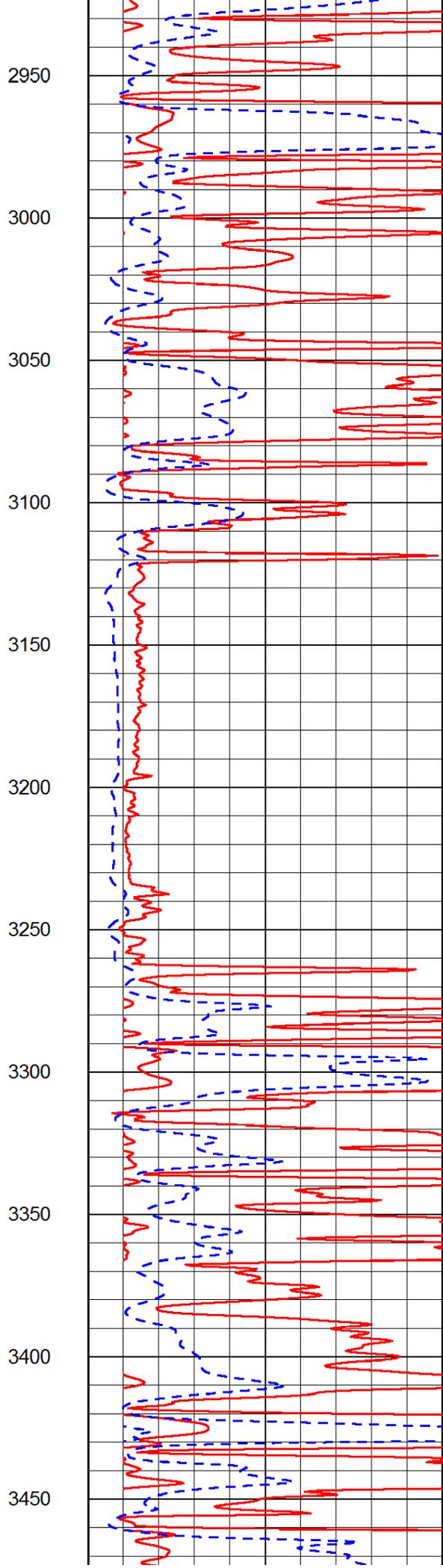
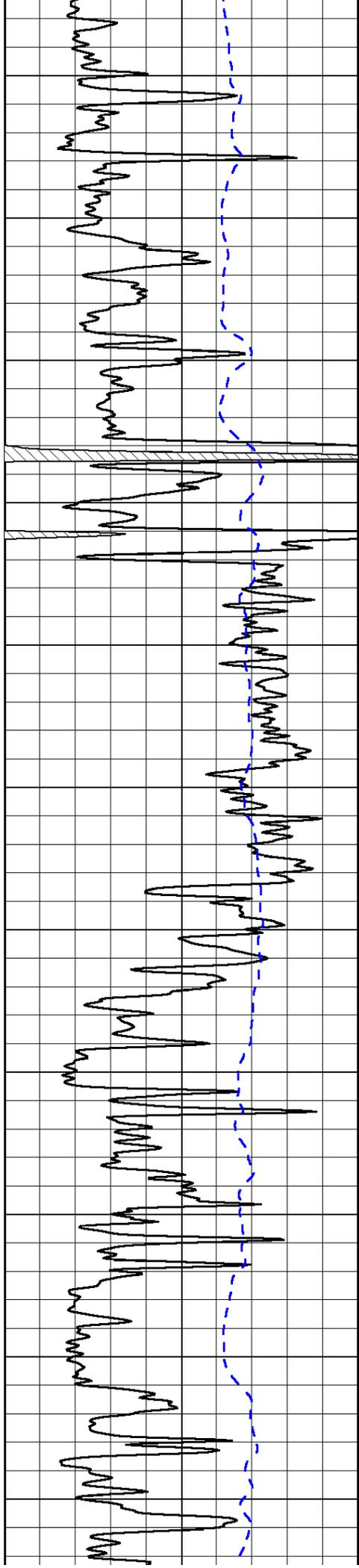
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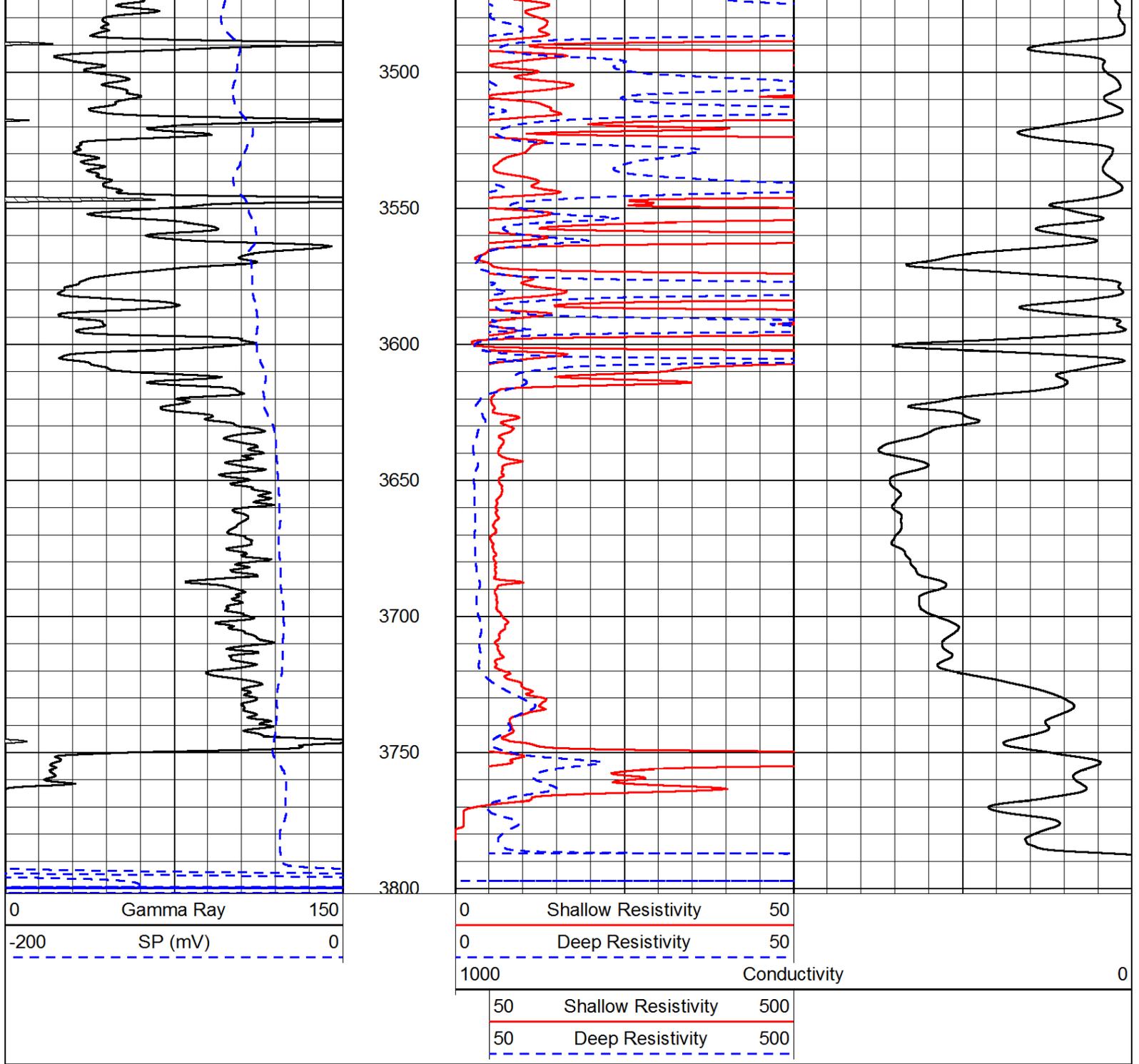




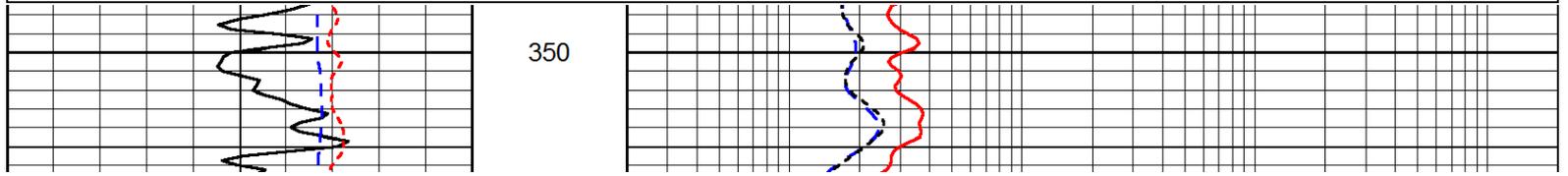
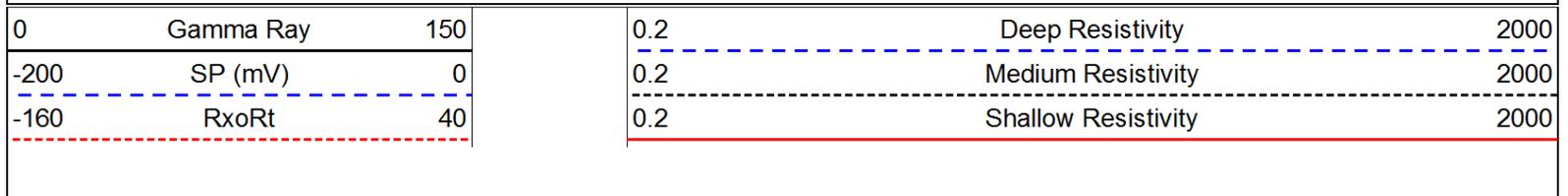
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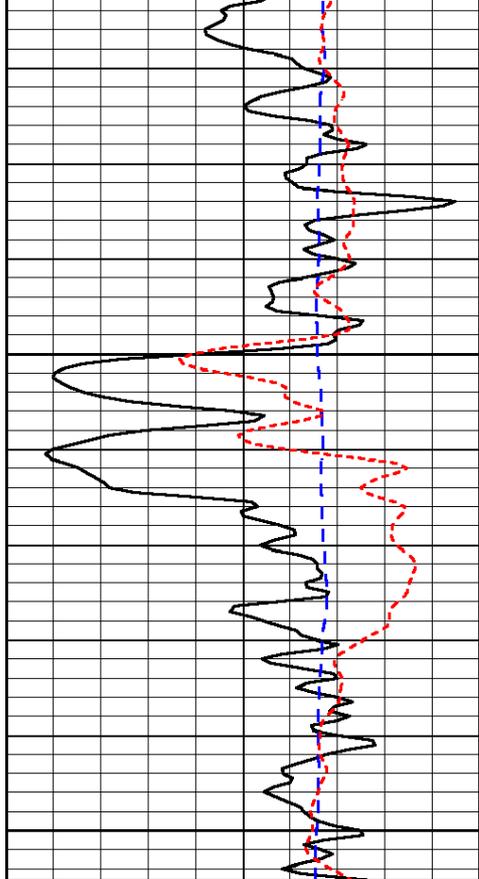




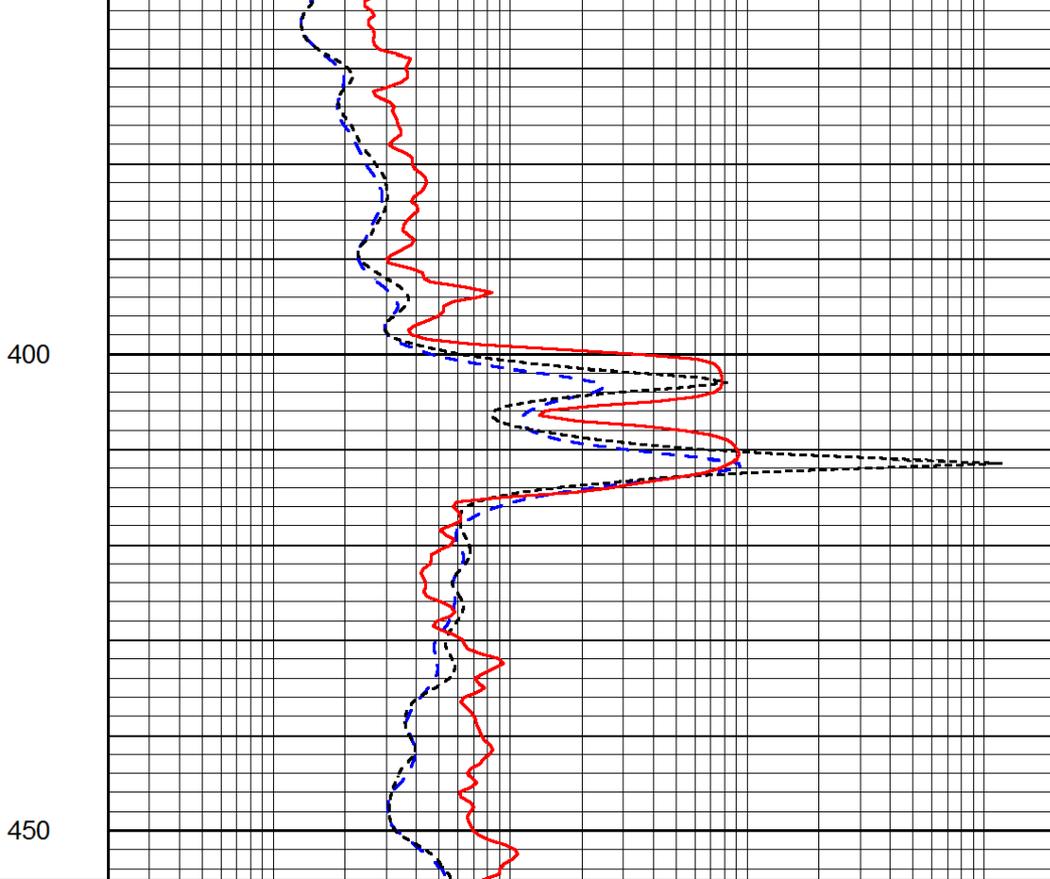


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-200	SP (mV)	0
-160	RxoRt	40

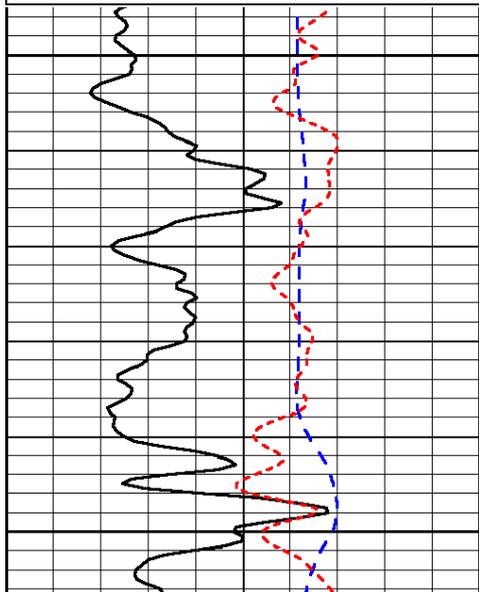


0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000

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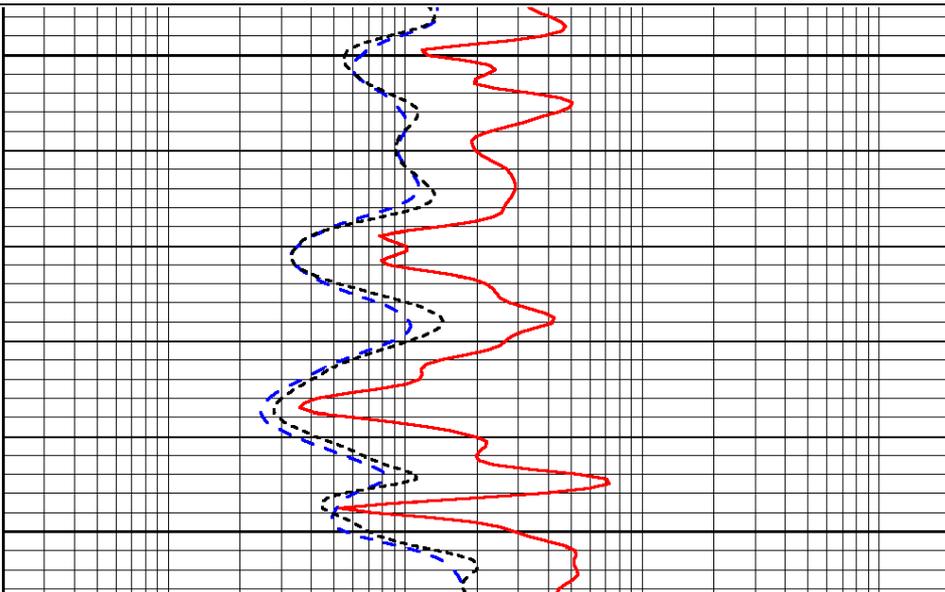
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-200	SP (mV)	0
-160	RxoRt	40

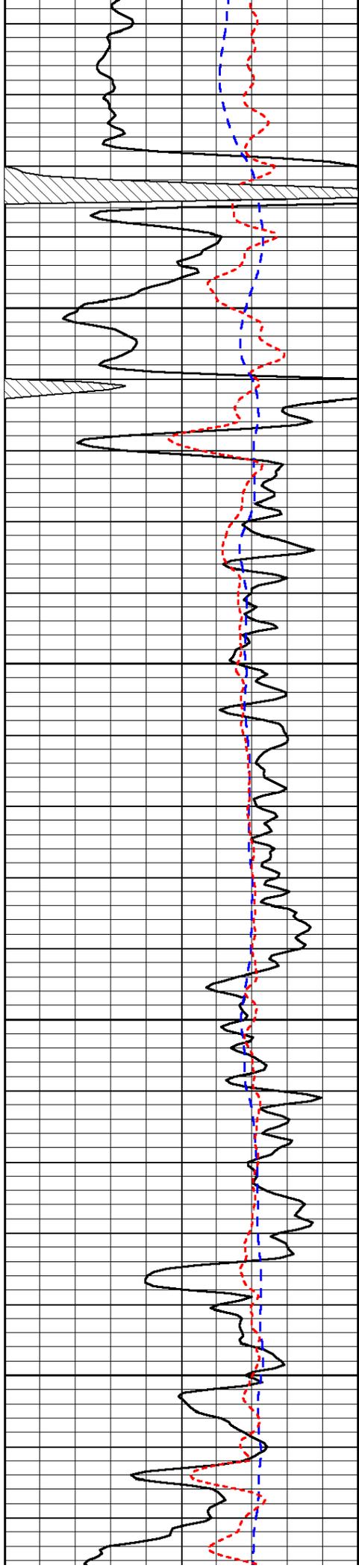
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0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000



3000

3050



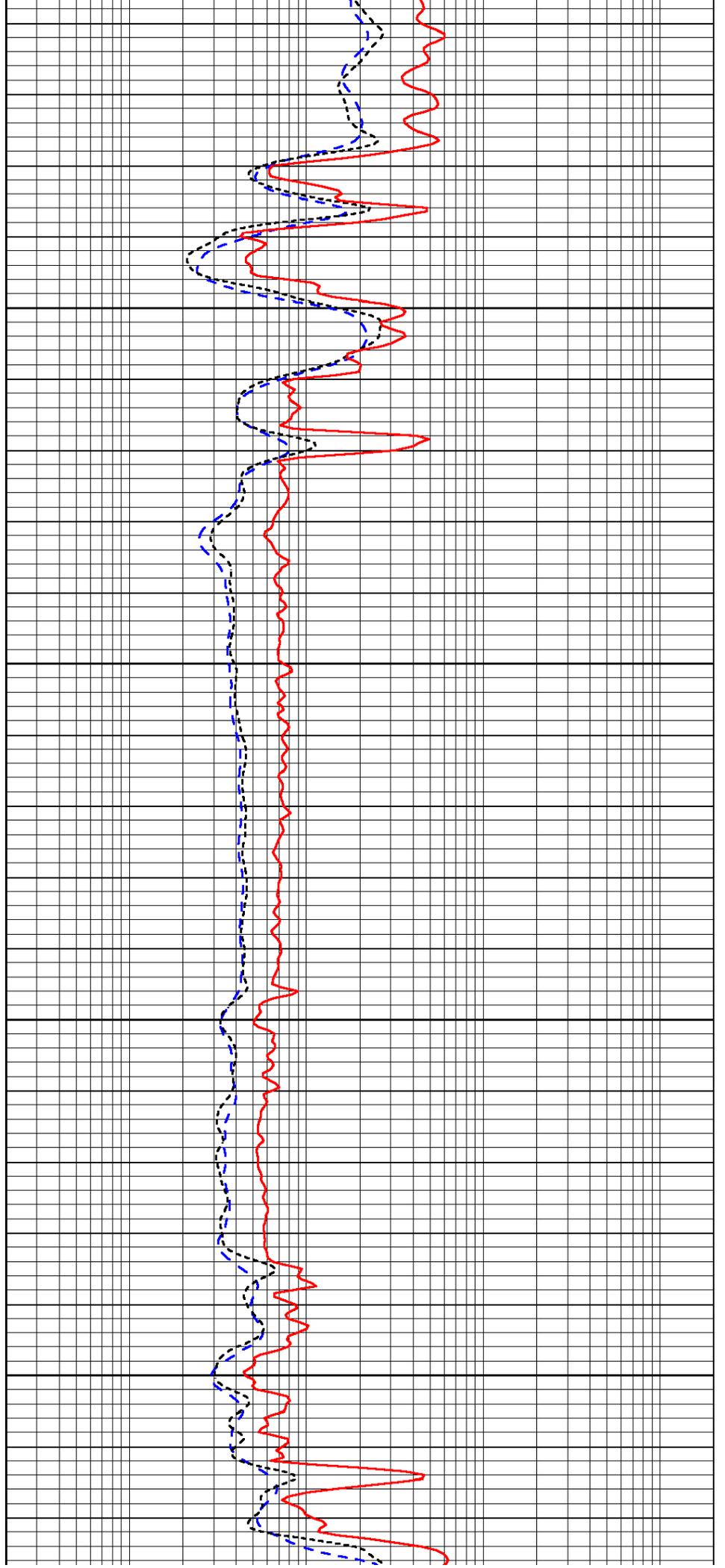


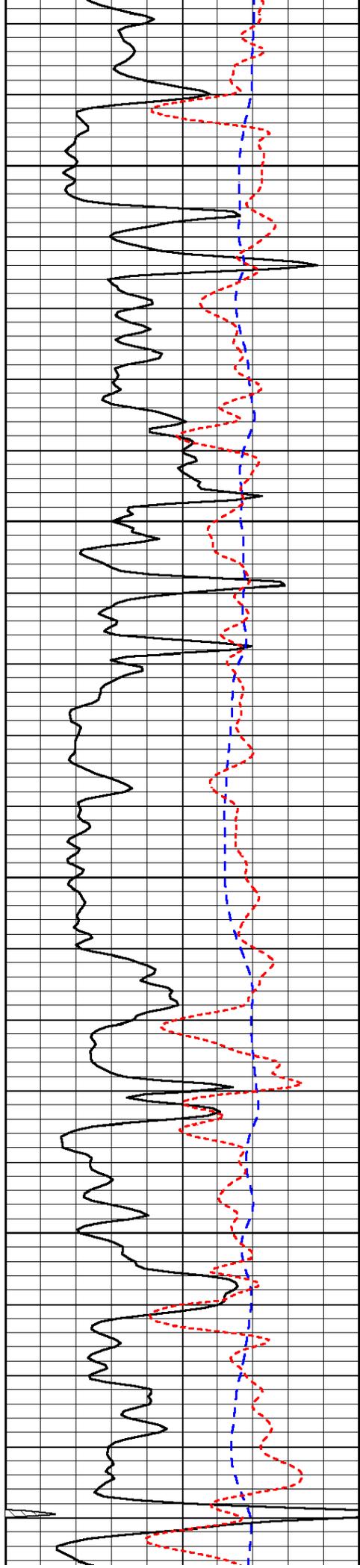
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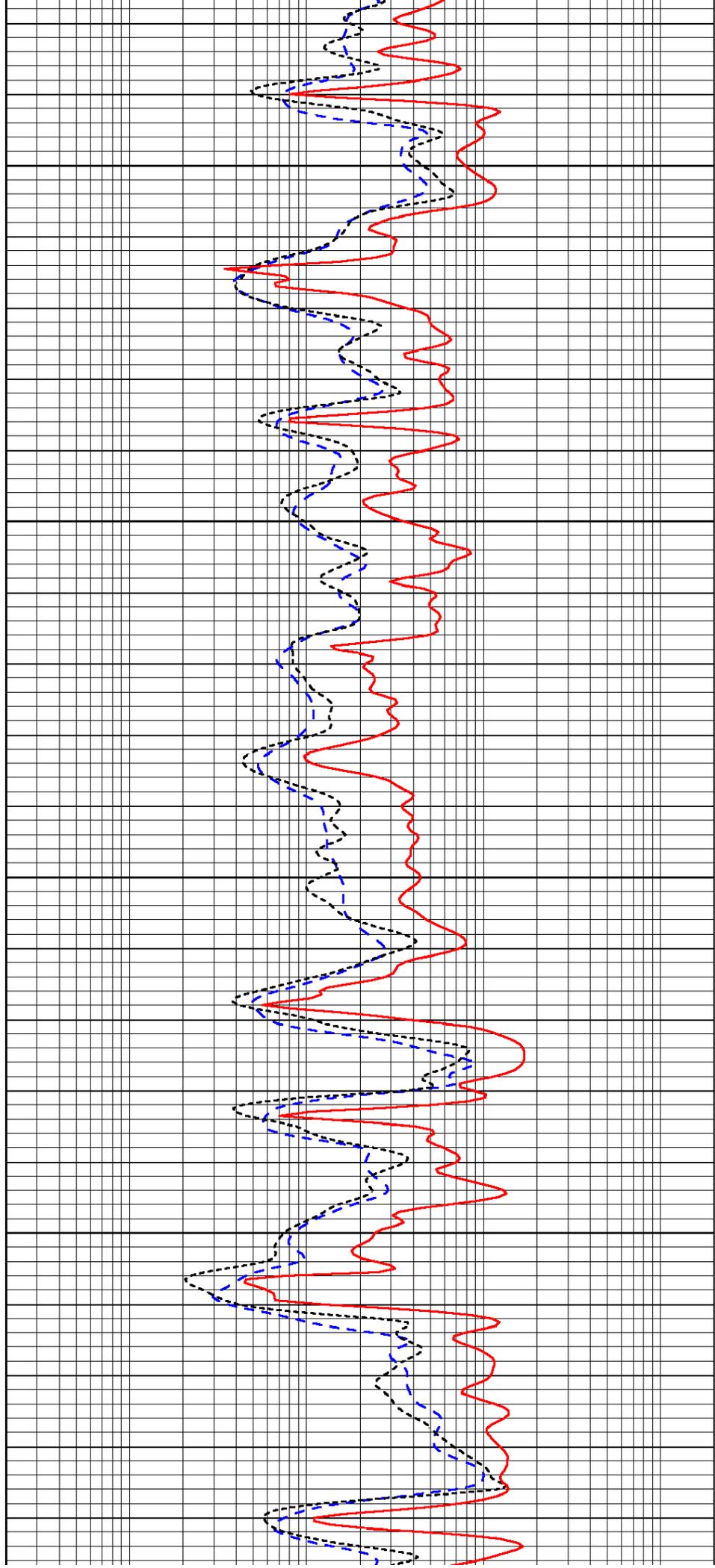


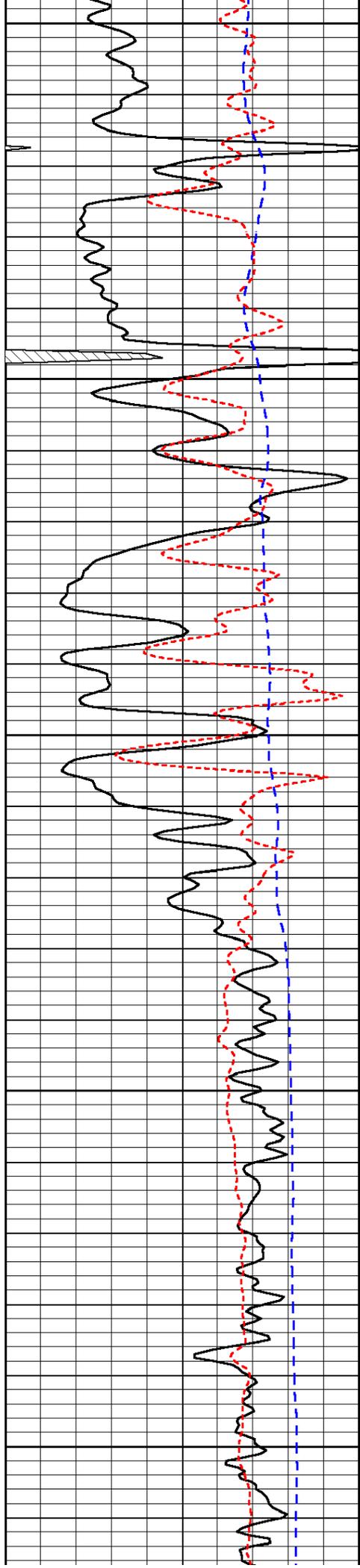
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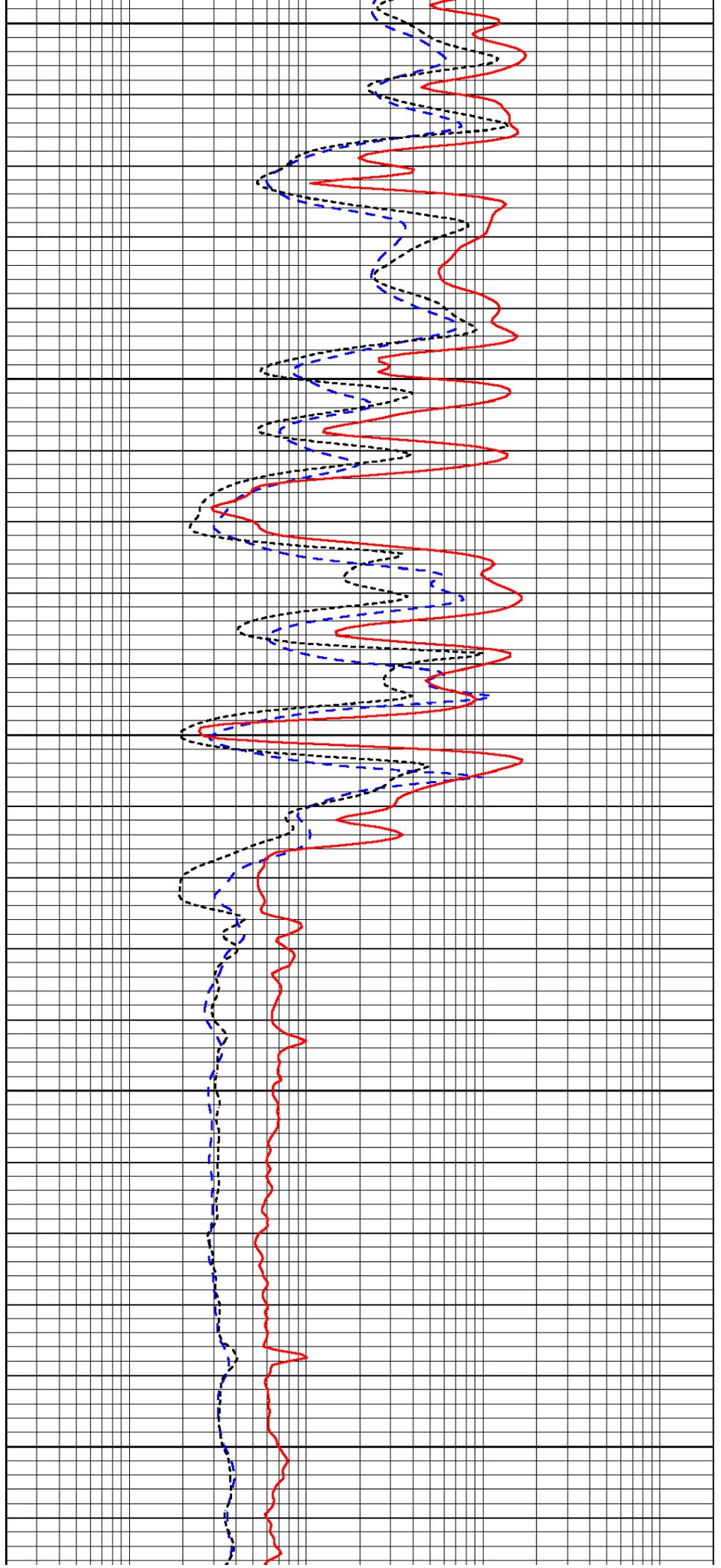
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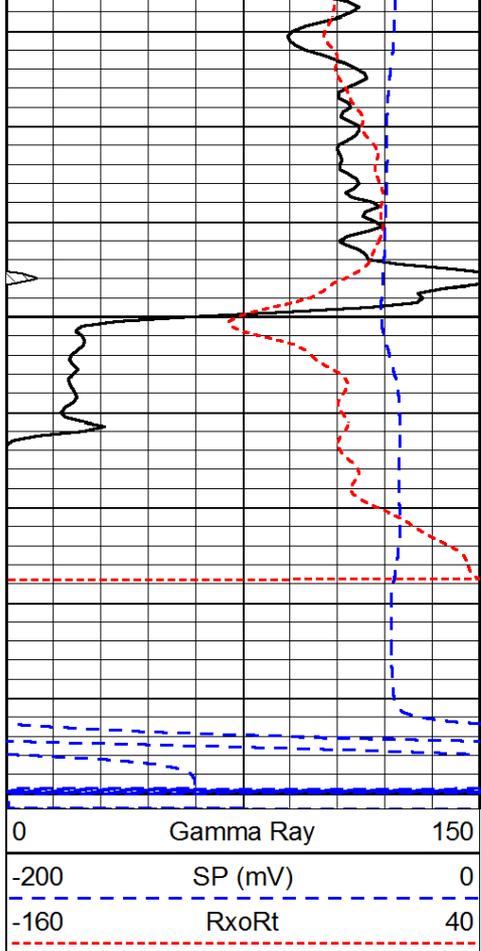
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