PIONEER

Pioneer Energy Services

Dual Induction Log

API No. 15-077-21992-00-00

Company R & B Oil & Gas, Inc.

Well Hostetler "A" #1

Field Spivey-Grabs

County Harper State Kansas

Location 2235' FSL / 330' FEL

Sec: 16 Twp: 31S Rge: 8W

Other Services: CNL / CDL

Elevation: K.B. 1610, D.F., G.L. 1600

Permanent Datum: Ground Level — Elevation 1600

Log Measured From: Kelly Bushing — 10 Ft. Above Perm. Datum

Drilling Measured From: Kelly Bushing

Date	12/8/2013			
Run Number	One			
Depth Driller	4610			
Depth Logger	4614			
Bottom Logged Interval	4613			
Top Log Interval	250			
Casing Driller	8.625 @ 269			
Casing Logger	264			
Bit Size	7.875			
Type Fluid in Hole	Chemical			
Salinity,ppm CL	4500			
Density / Viscosity	9.2 / 55			
pH / Fluid Loss	10.5 / 8.8			
Source of Sample	Flowline			
Rm @ Meas. Temp	1.00 @ 52			
Rmf @ Meas. Temp	0.75 @ 52			
Rmc @ Meas. Temp	1.35 @ 52			
Source of Rmf / Rmc	Charts			
Rm @ BHT	0.43 @ 122			
Operating Rig Time	3 Hours			
Max. Rec. Temp. F	122			
Equipment Number	15			
Location	Hays			
Recorded By	R. Barnhart			
Witnessed By	Tim Pierce			

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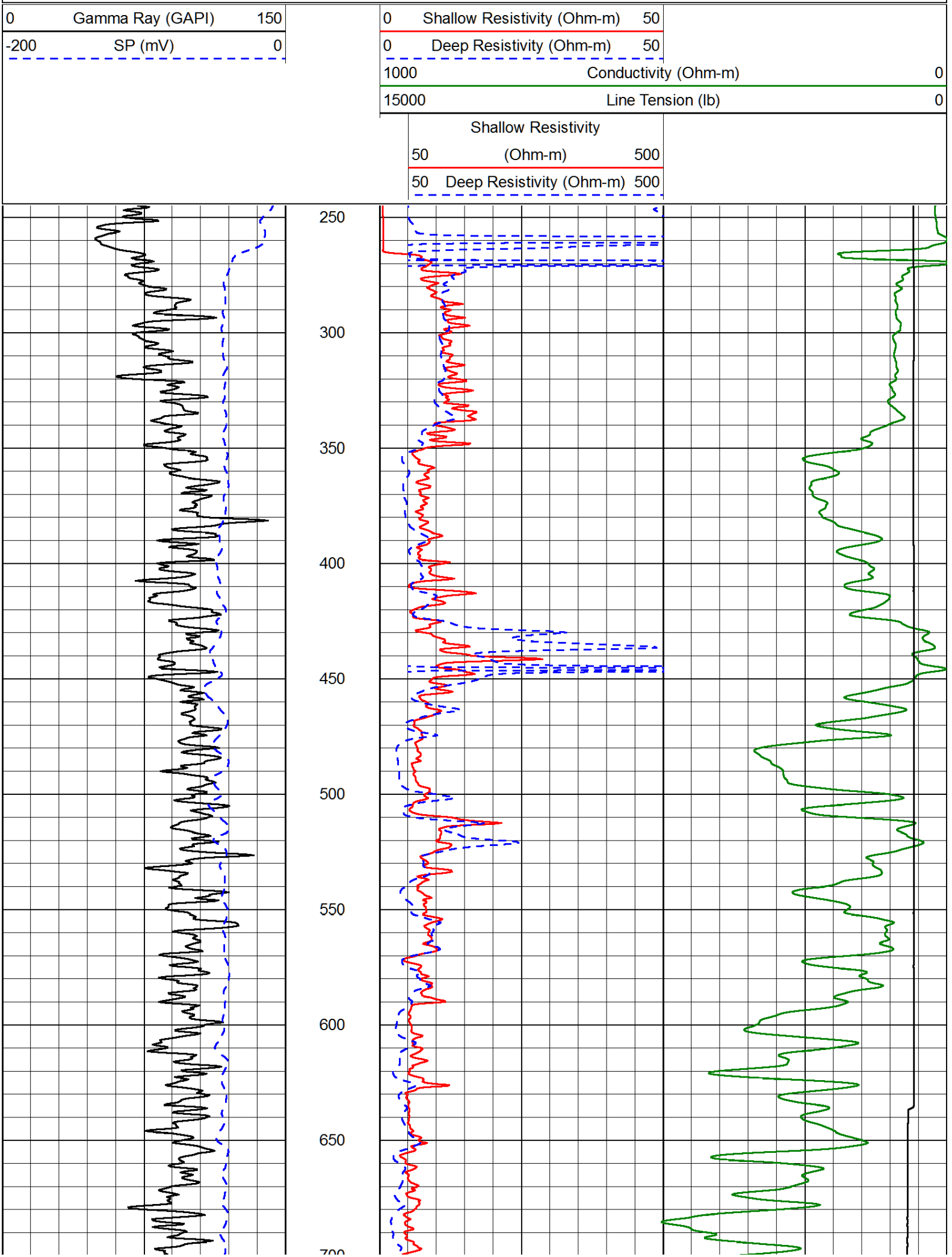
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

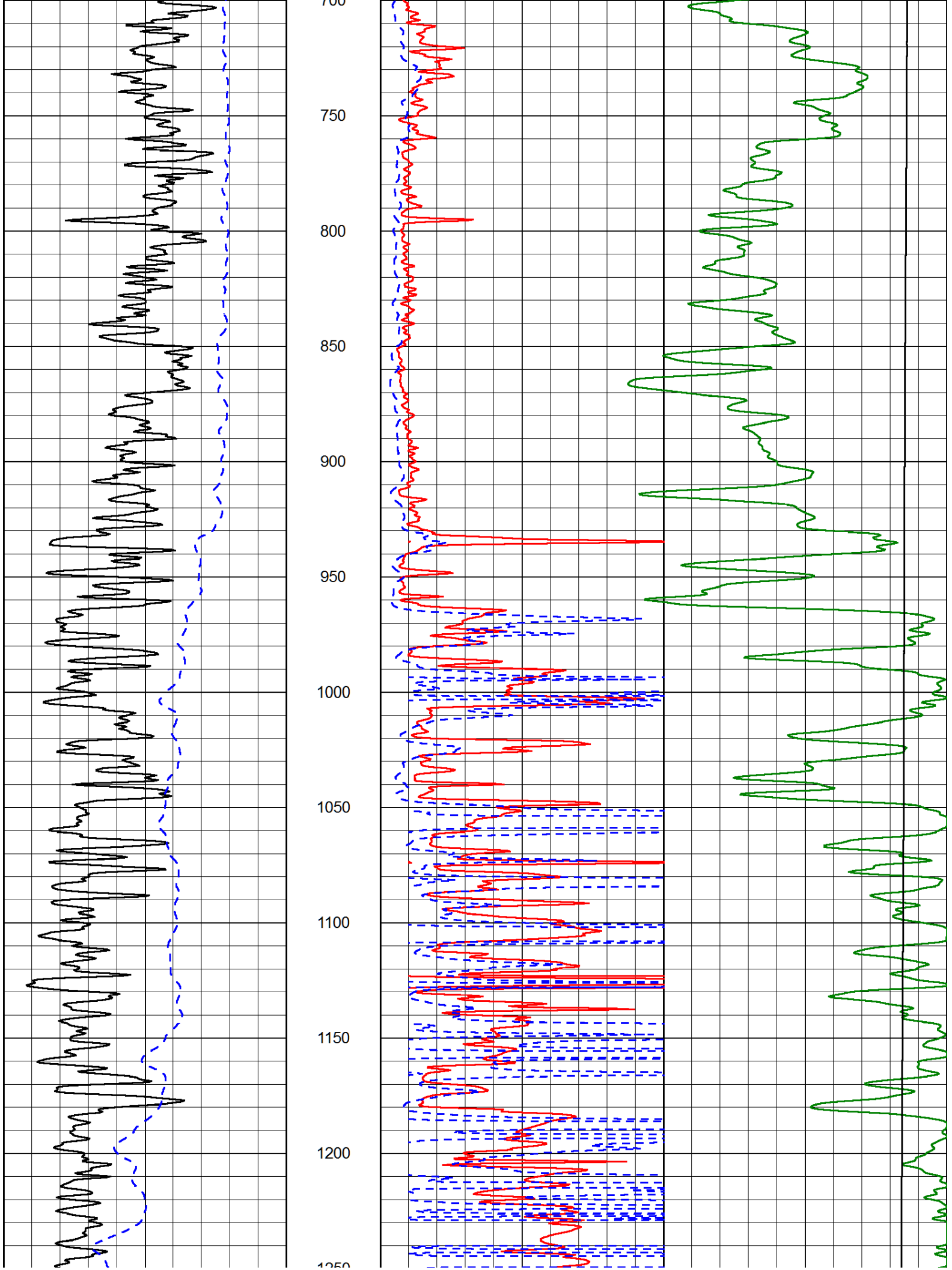
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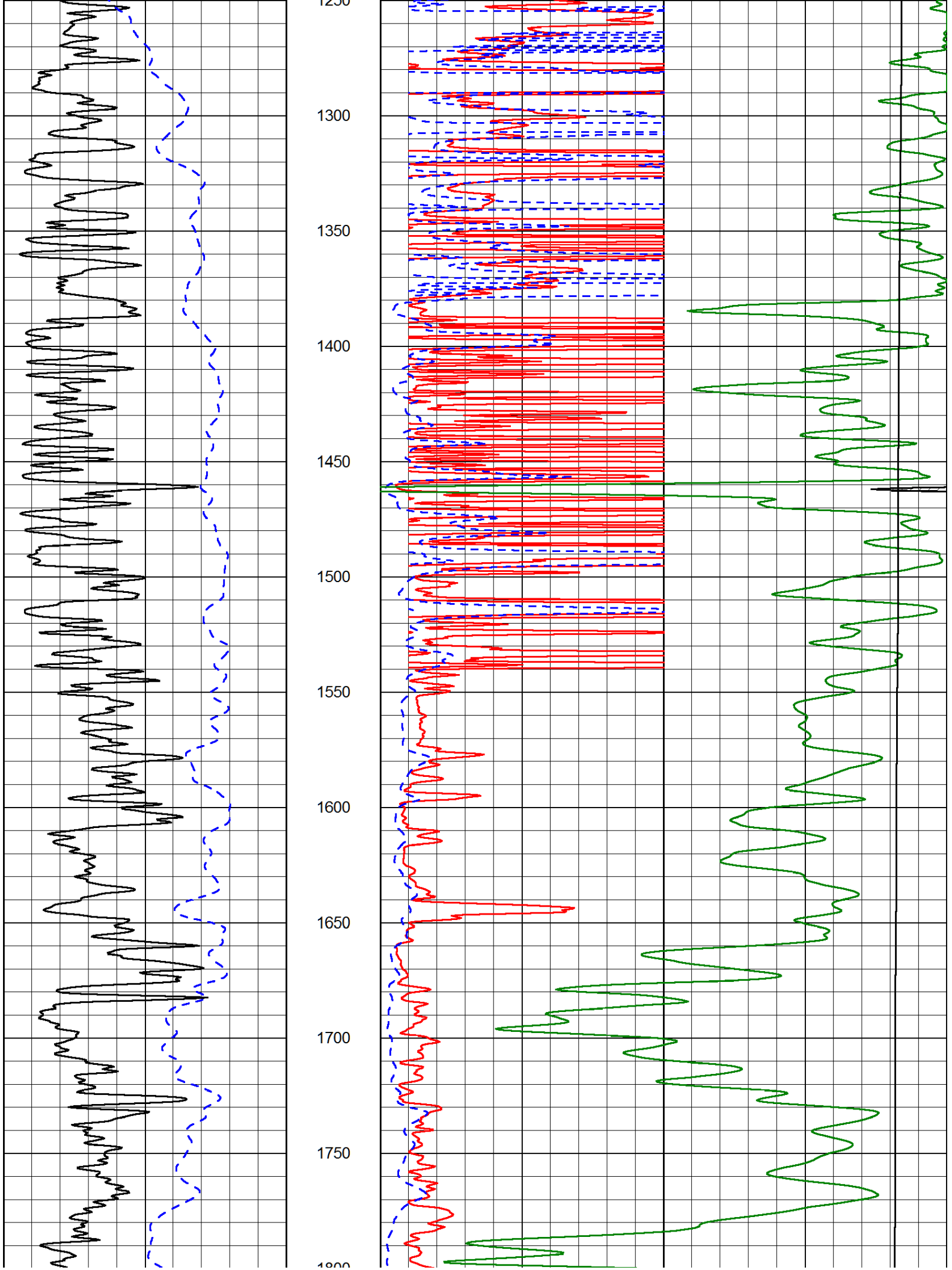
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(785) 625-3858

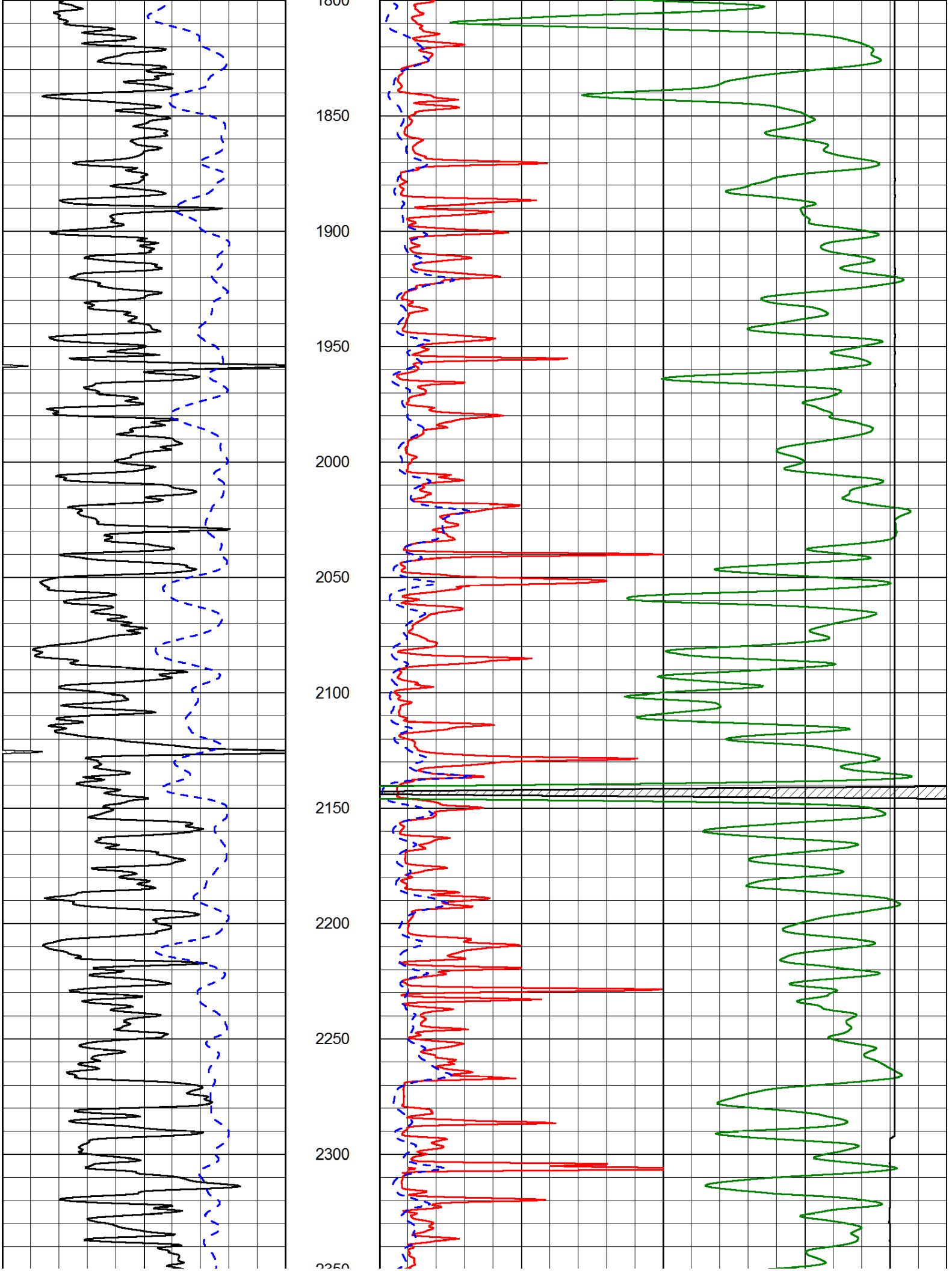
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5S, 3E, 2S, 2E, N into

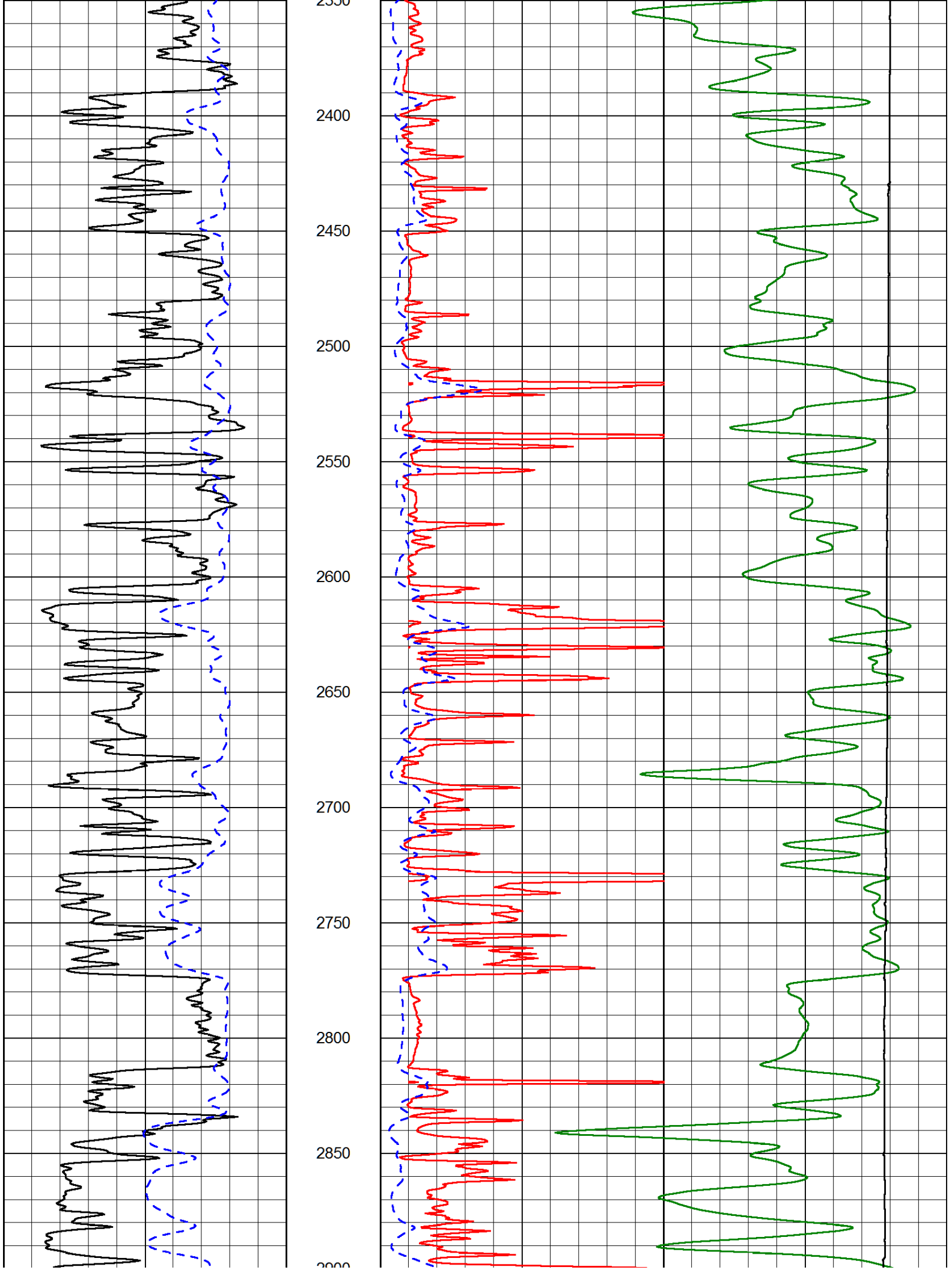
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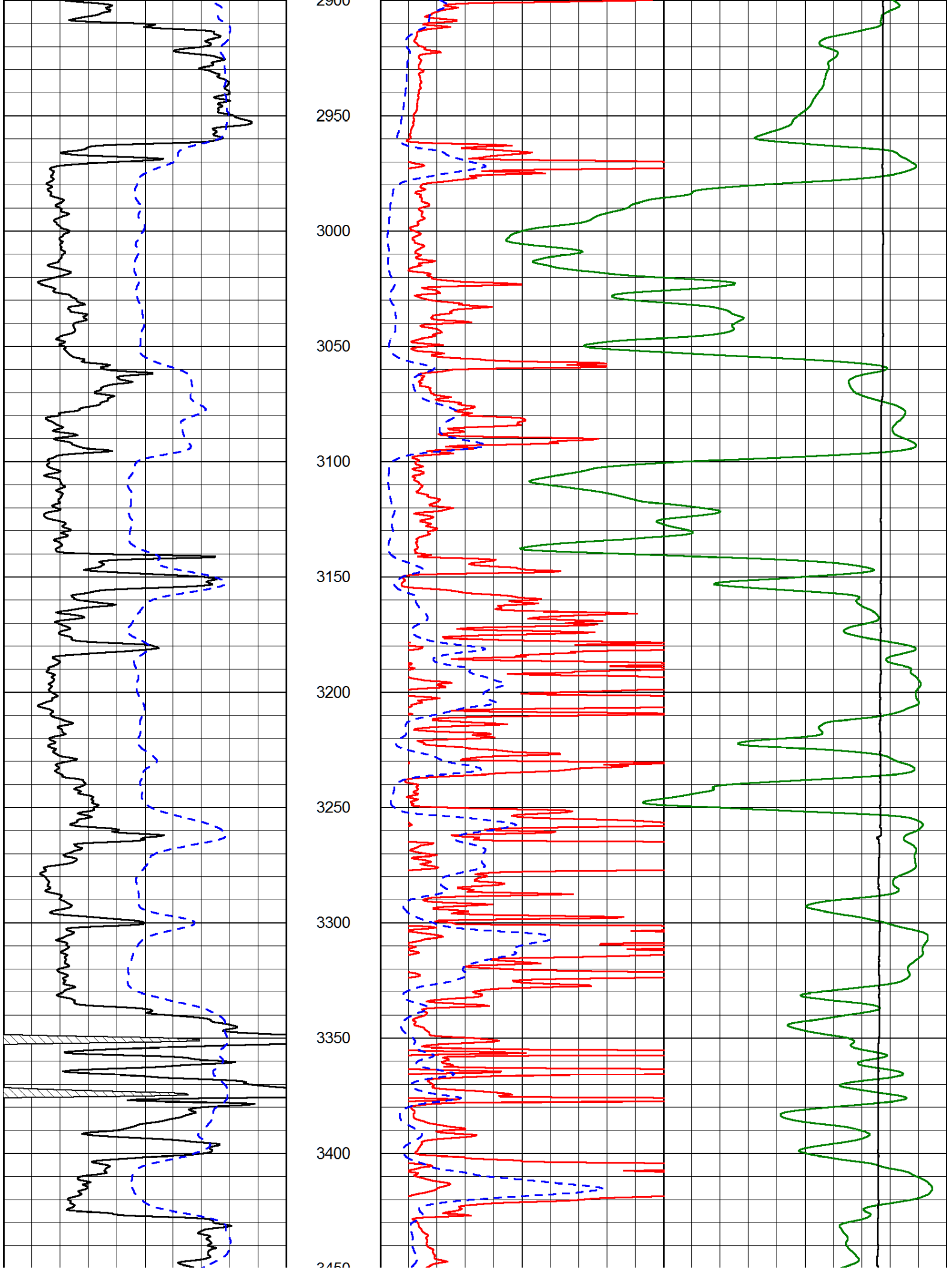

0 Gamma Ray (GAPI) 150
-200 SP (mV) 0
0 Shallow Resistivity (Ohm-m) 50
0 Deep Resistivity (Ohm-m) 50
1000 Conductivity (Ohm-m) 0
15000 Line Tension (lb) 0
Shallow Resistivity
50 (Ohm-m) 500
50 Deep Resistivity (Ohm-m) 500
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300
350
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550
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650

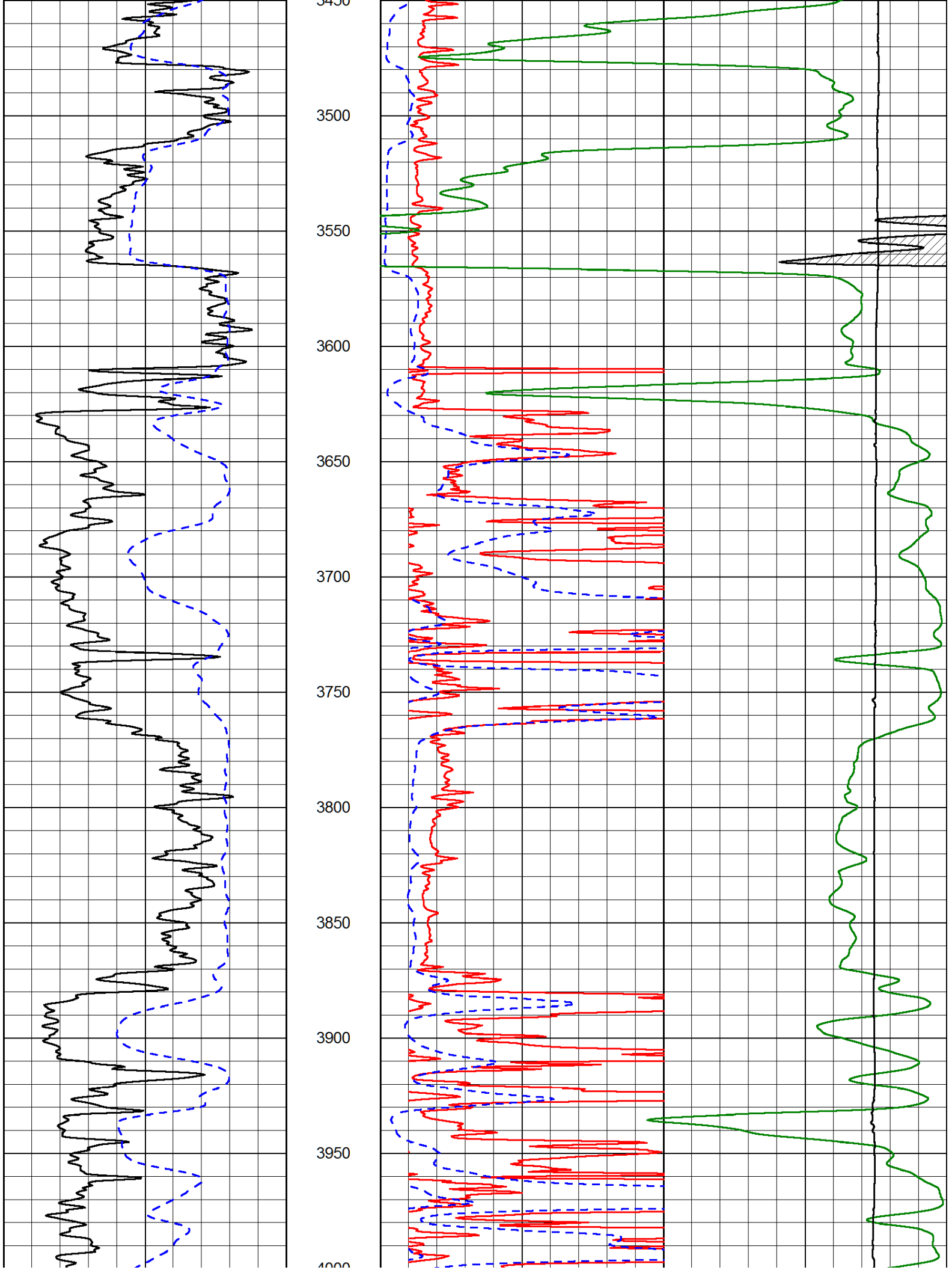

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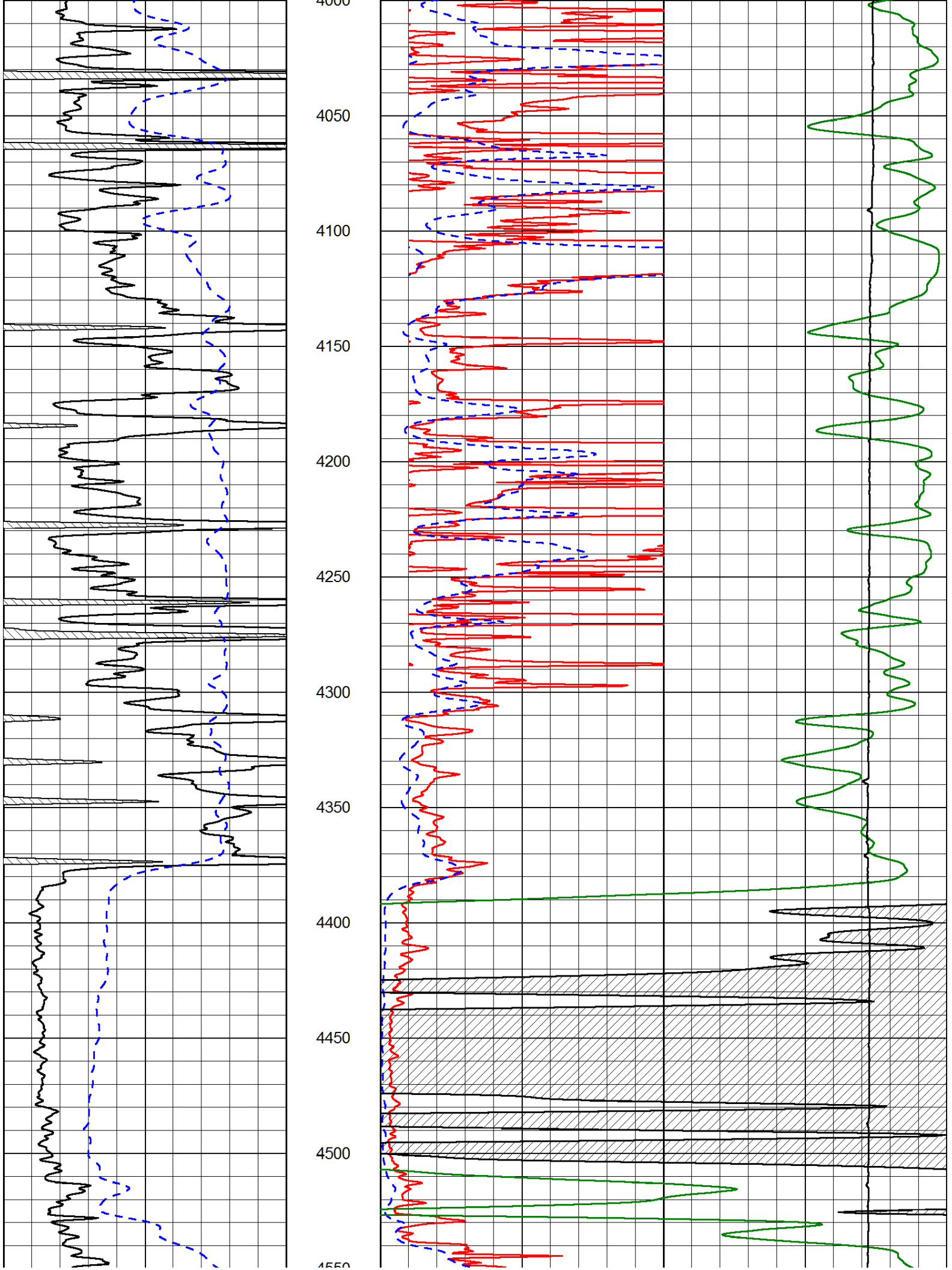

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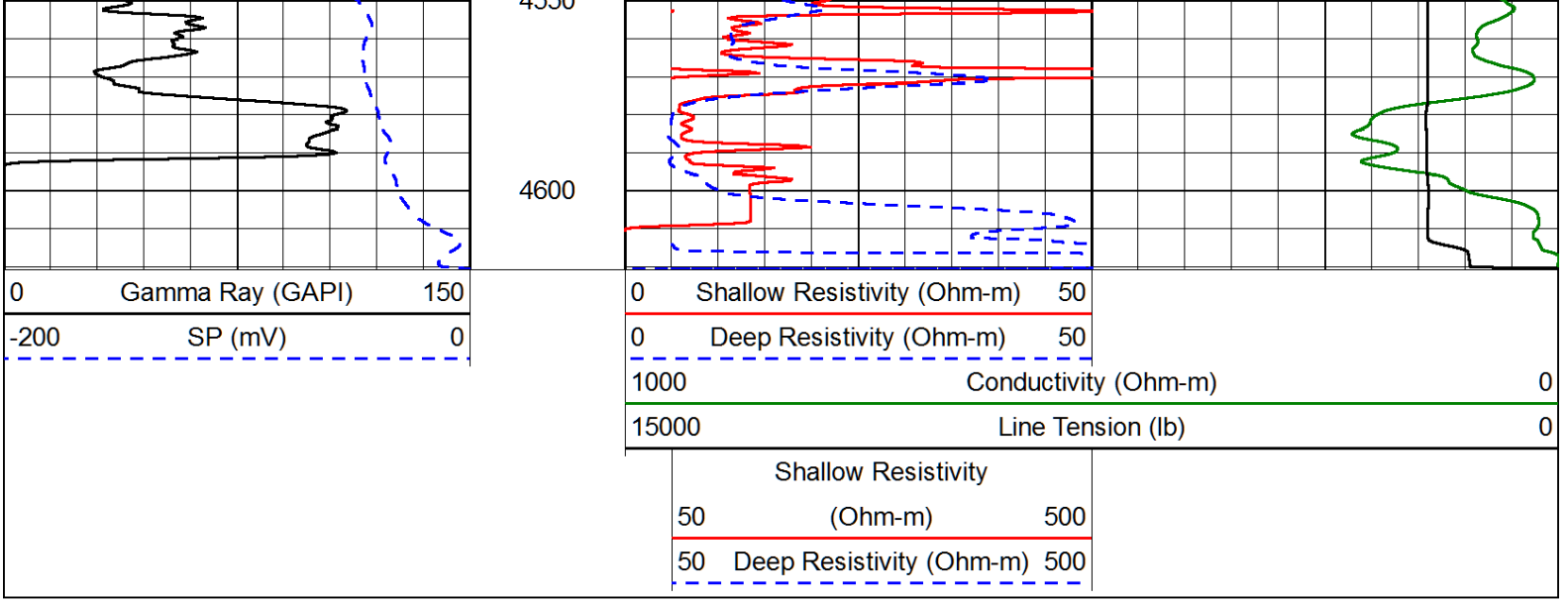

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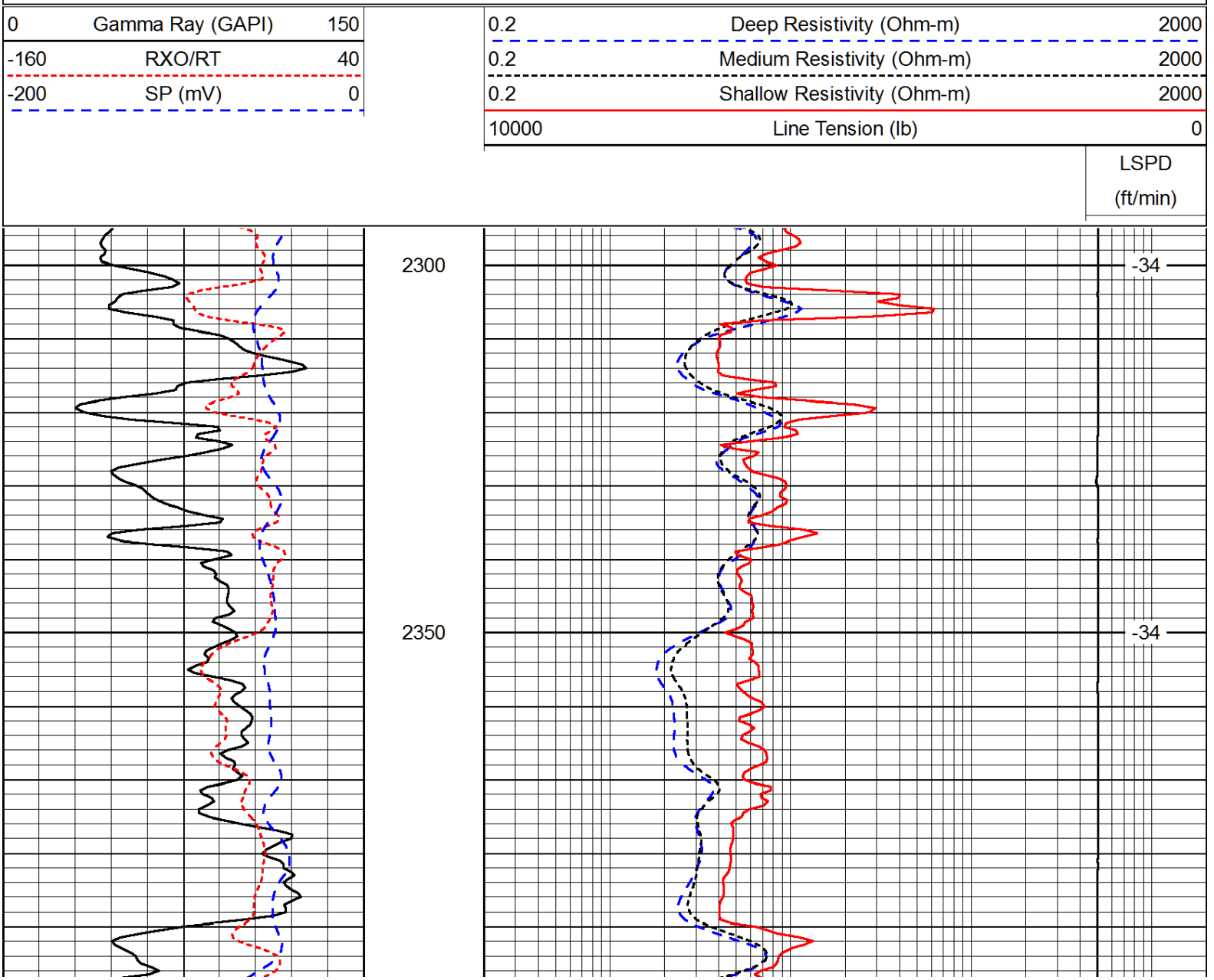

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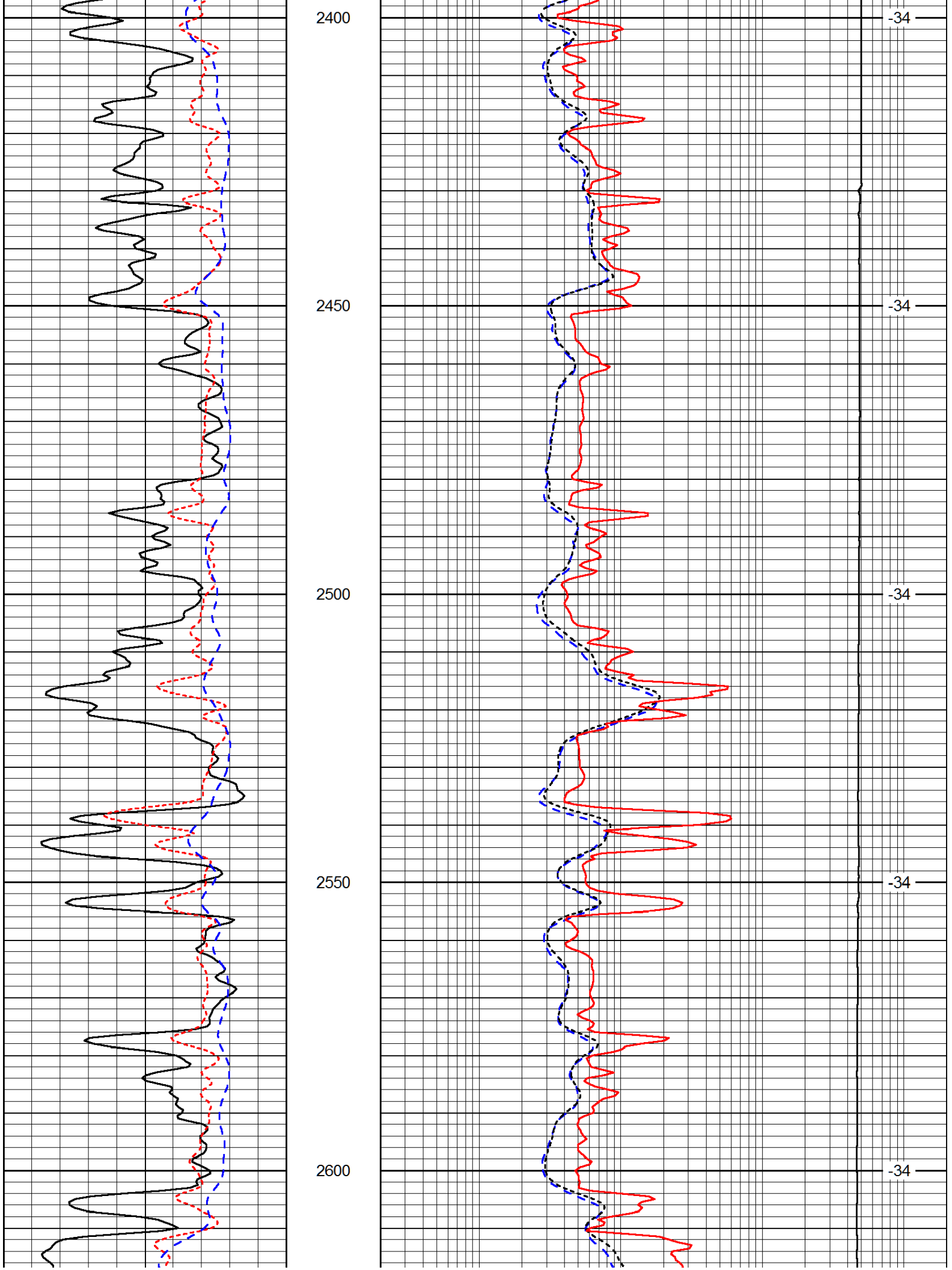

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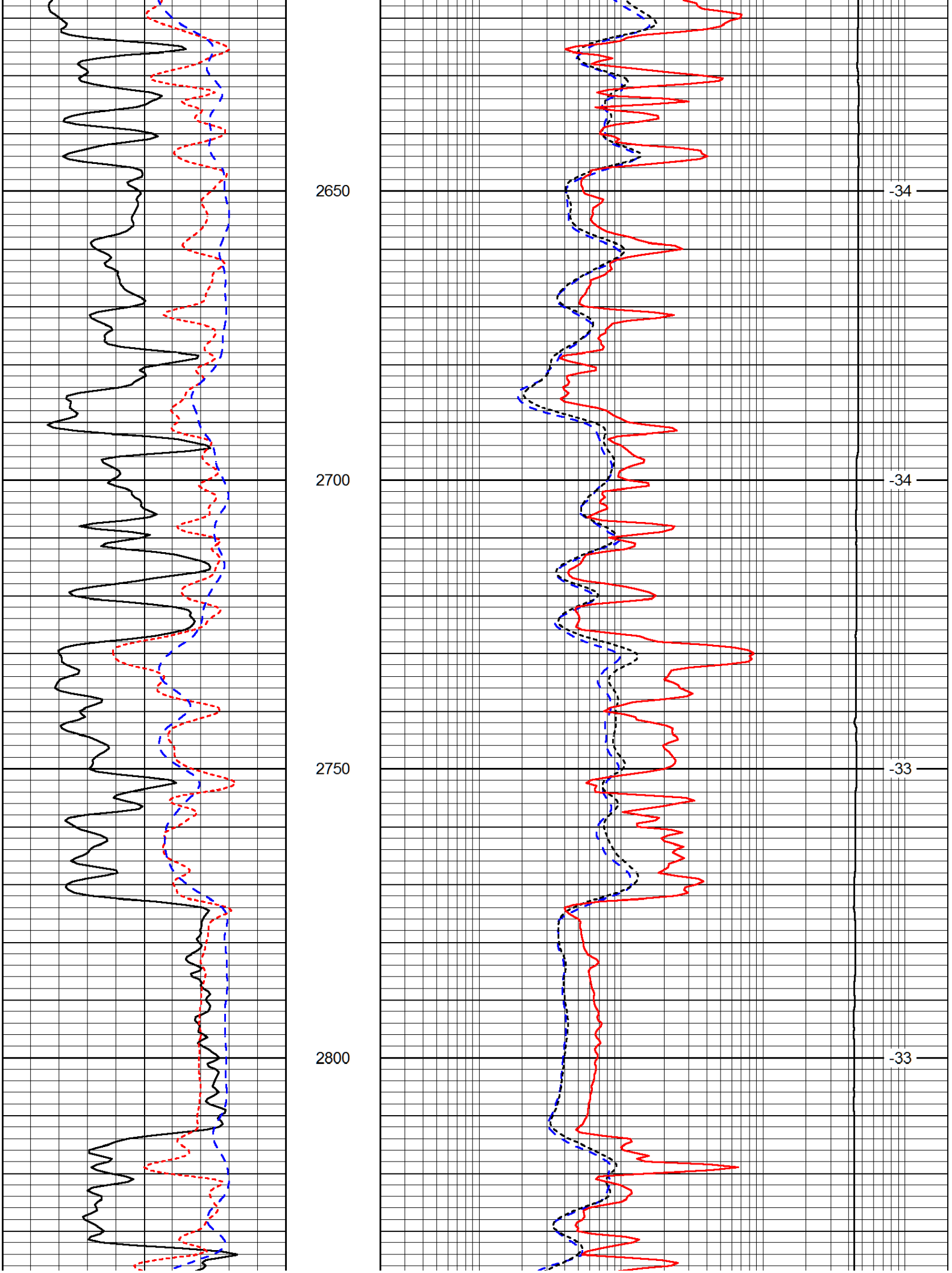

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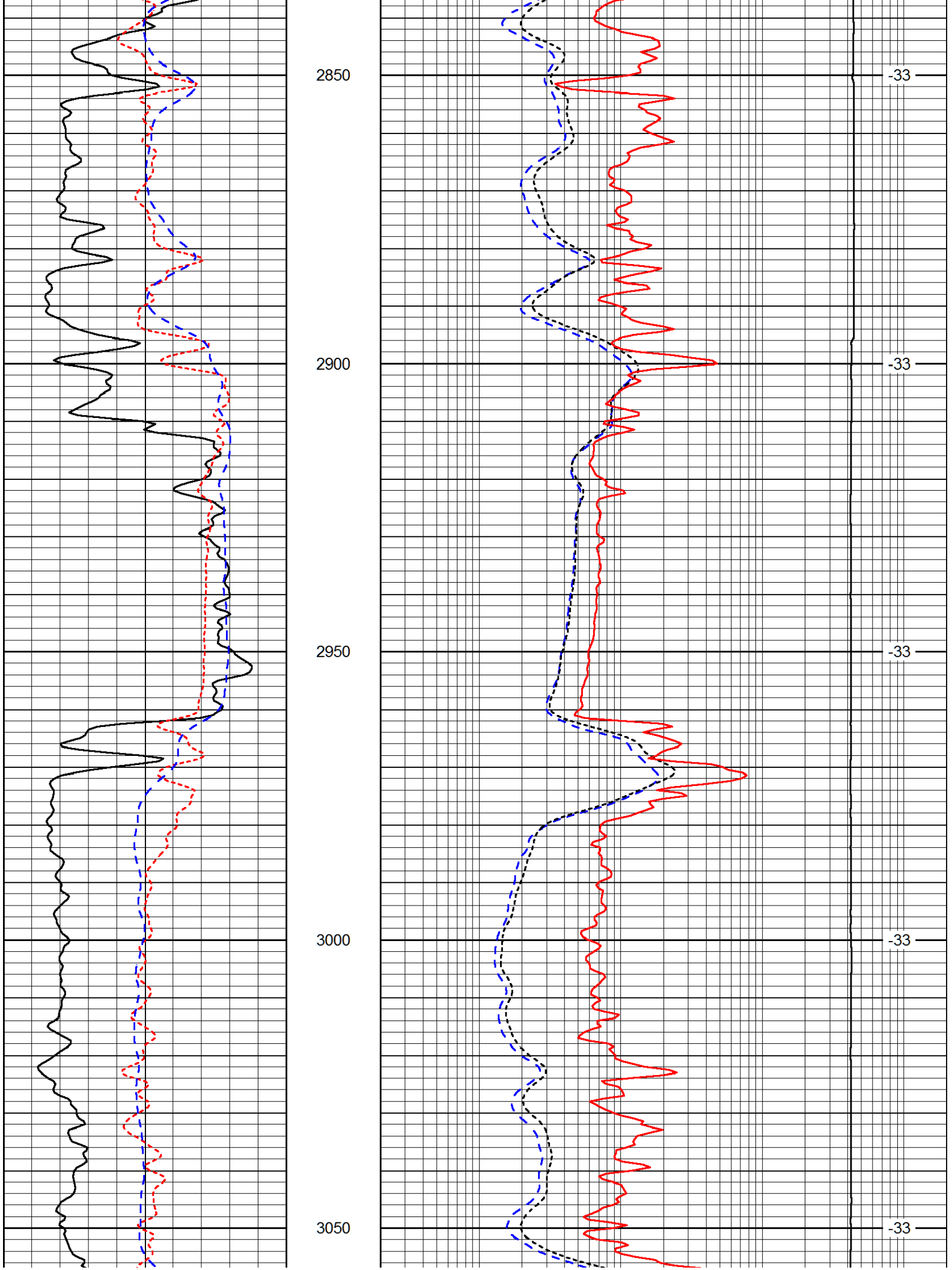


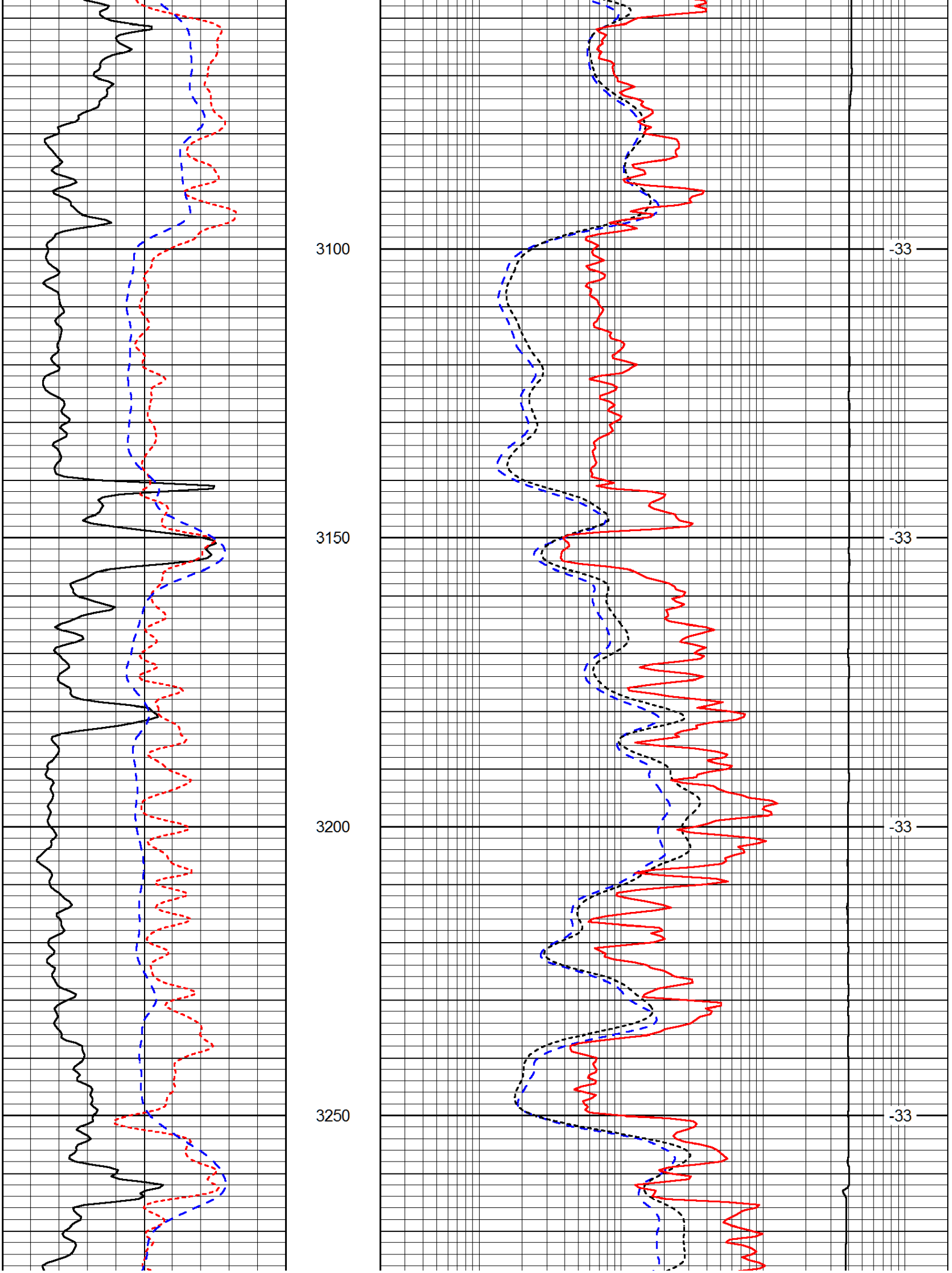
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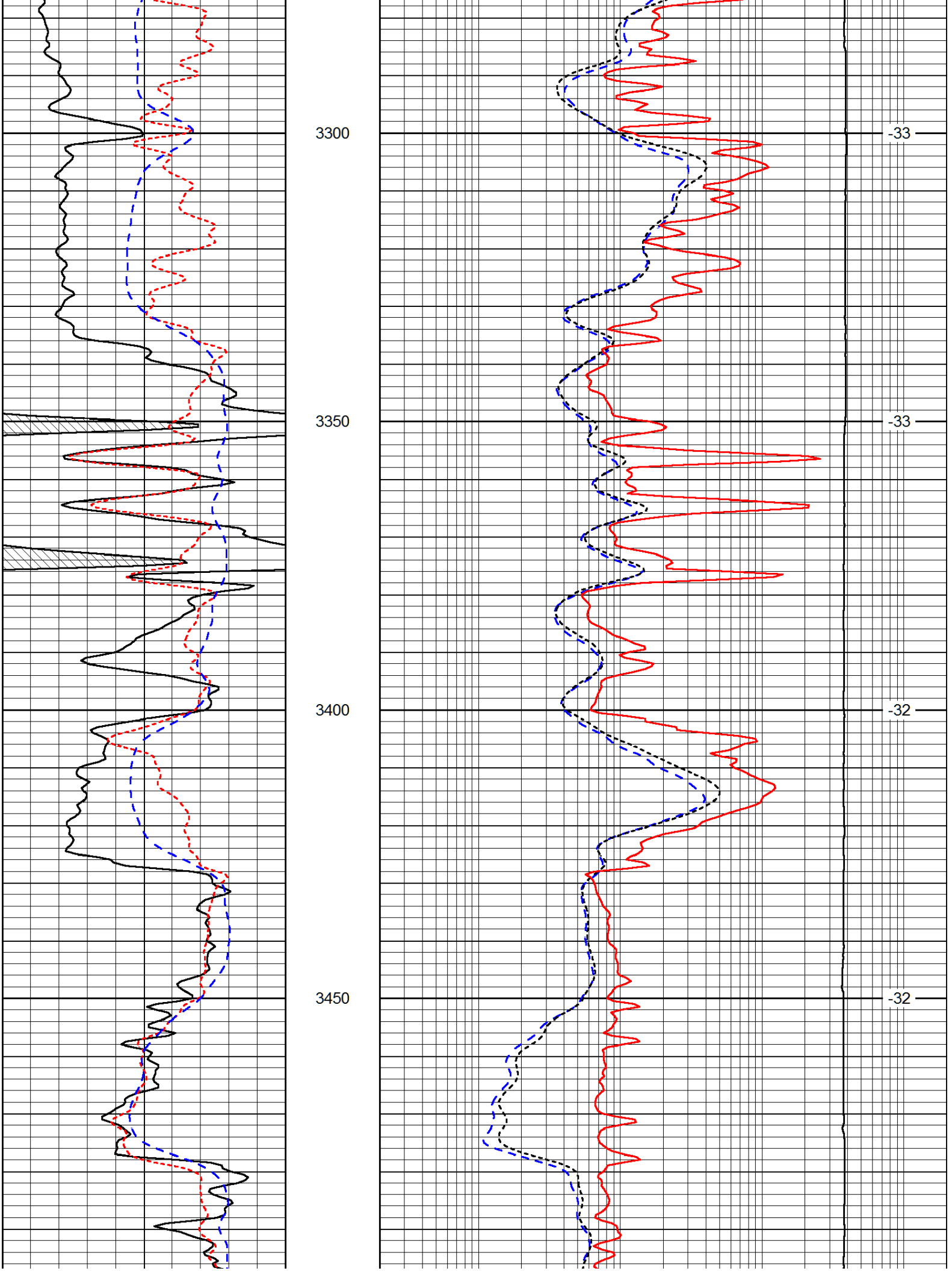


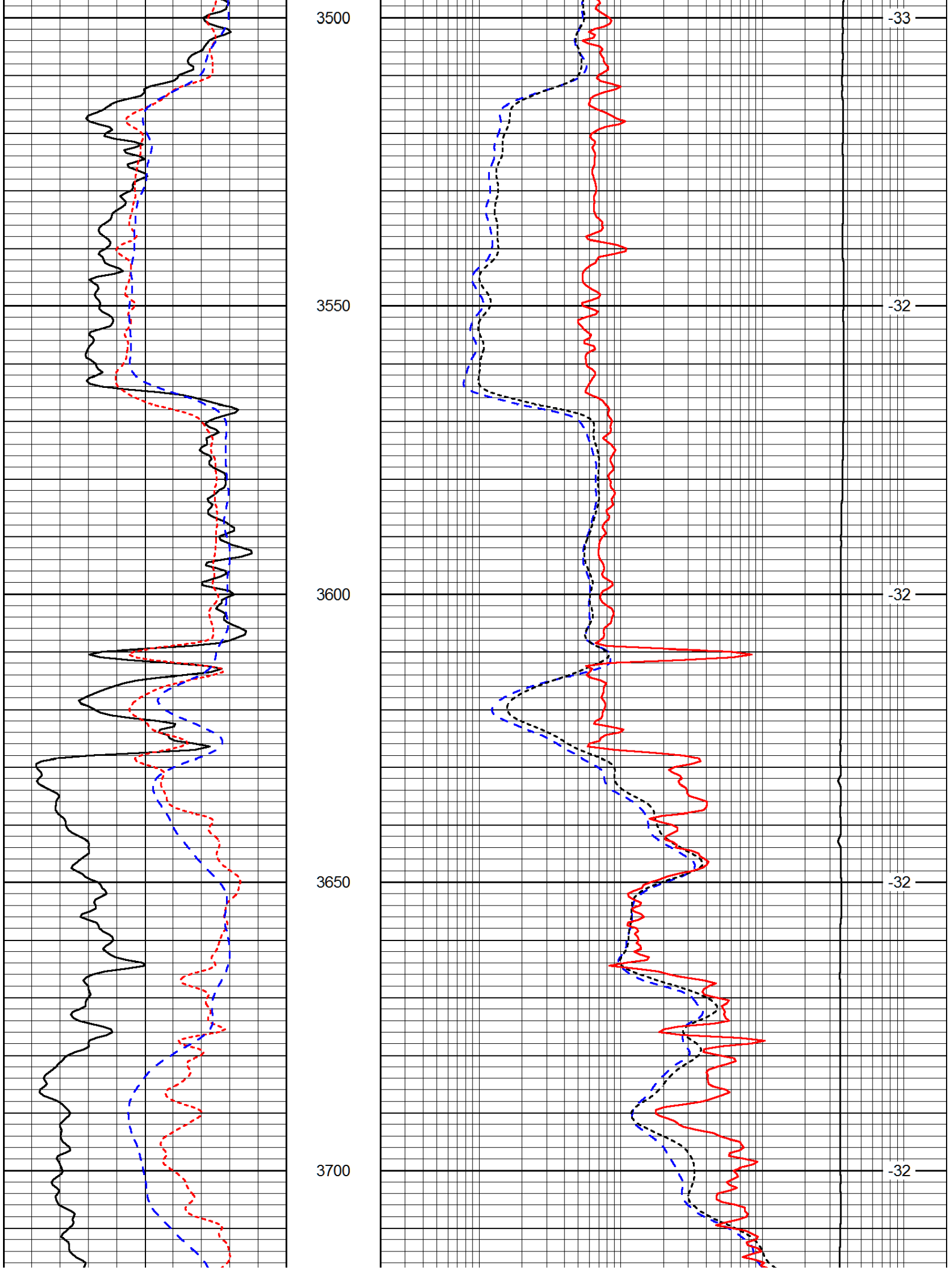

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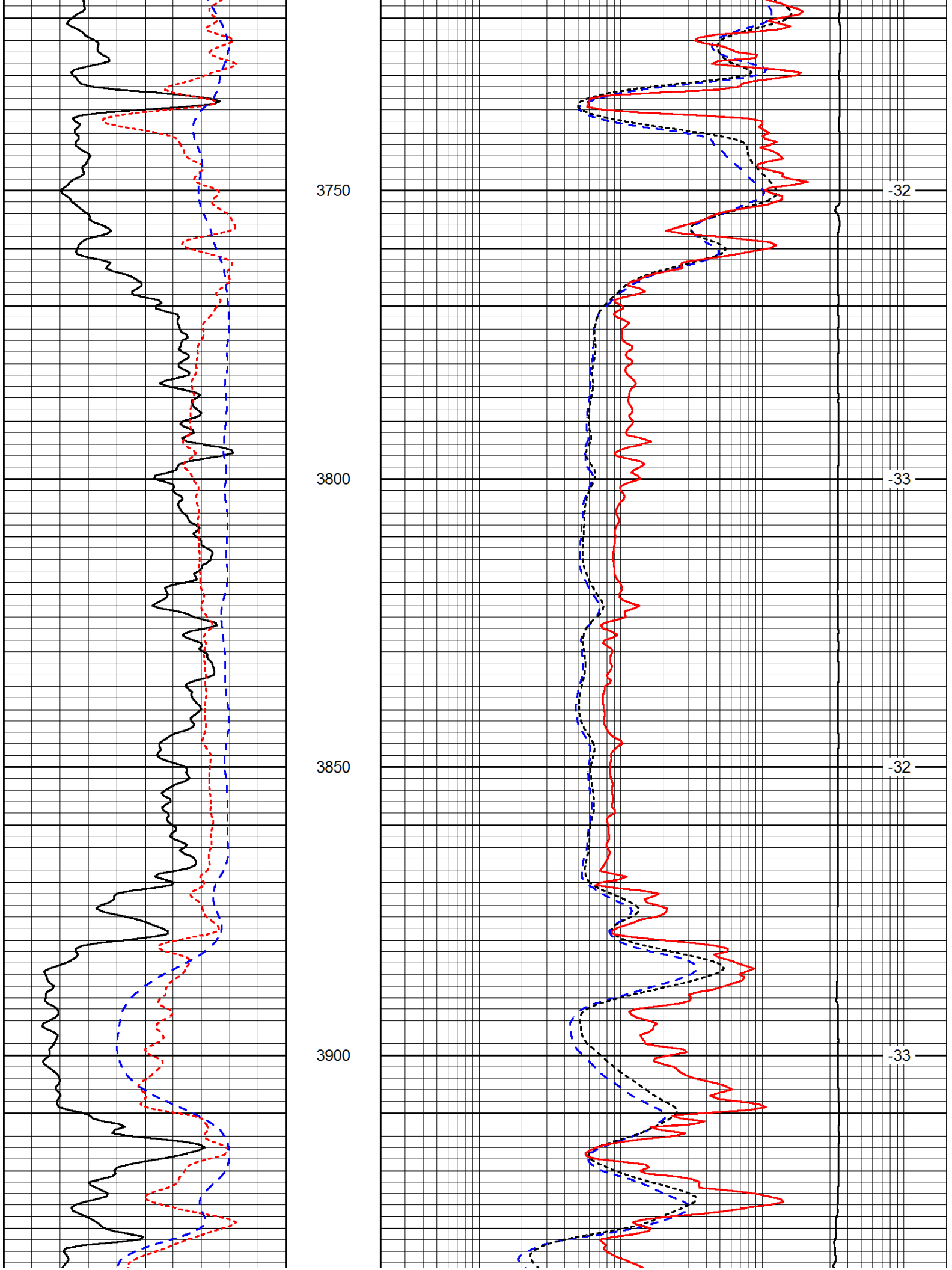

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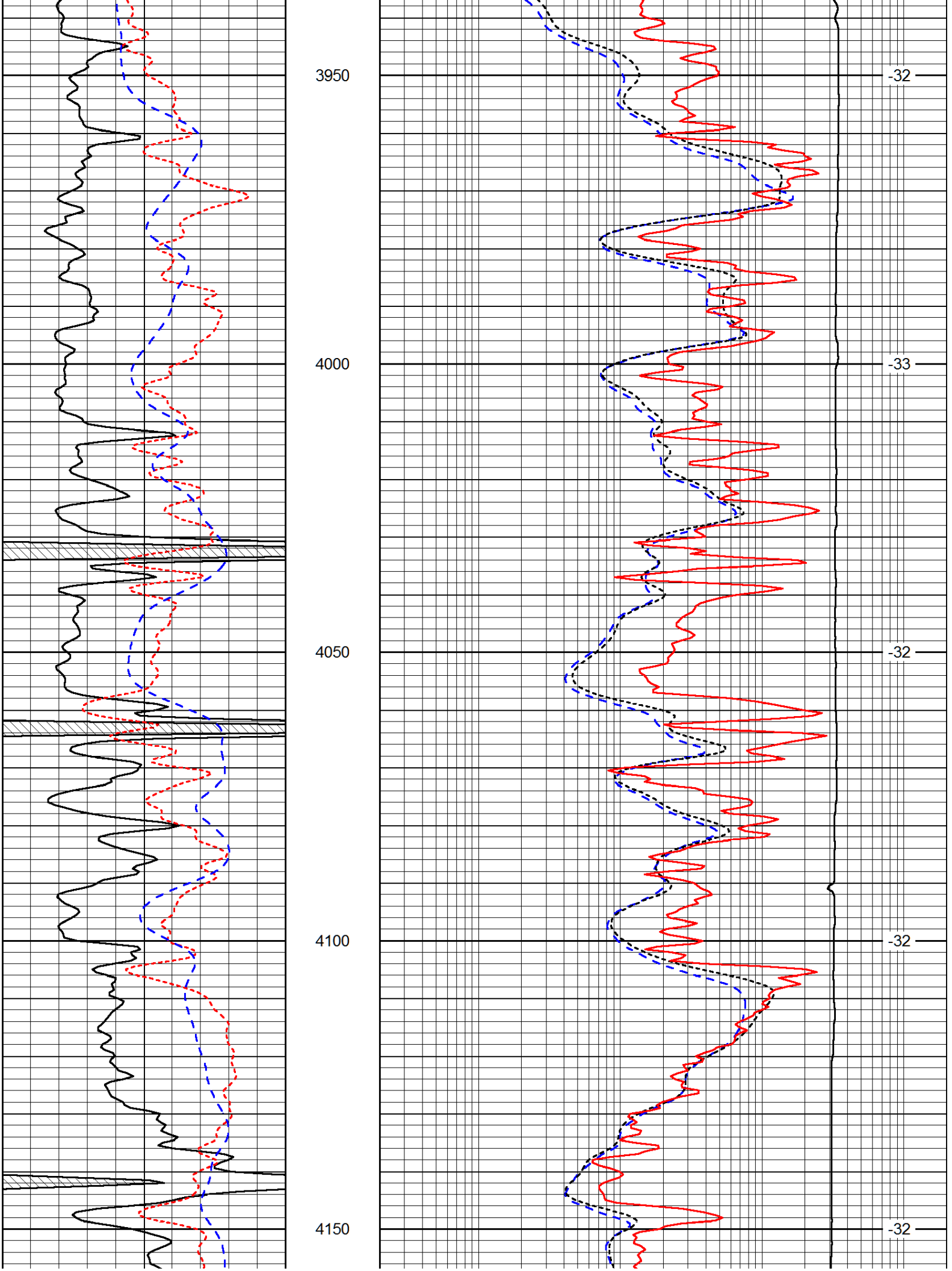

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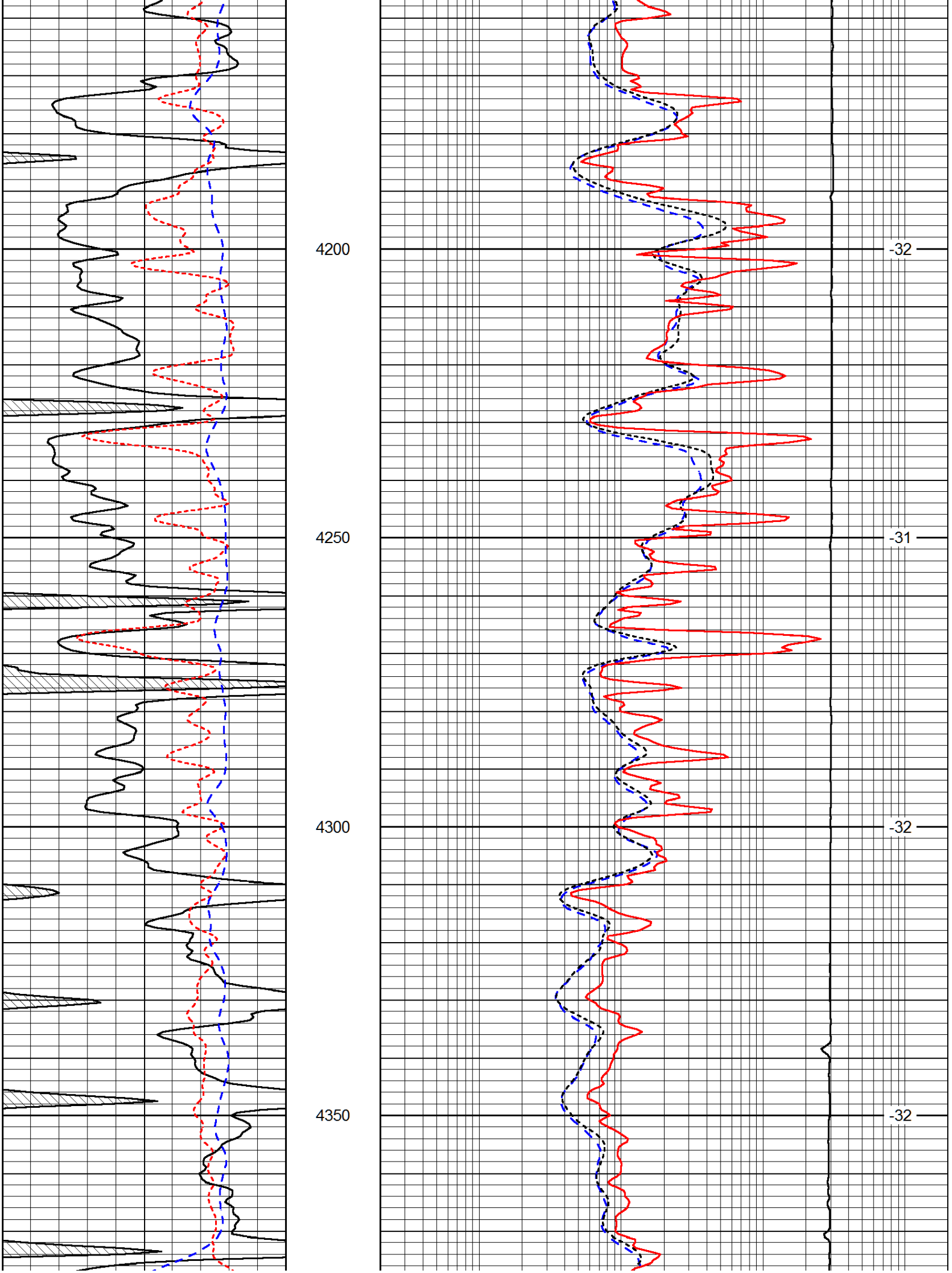

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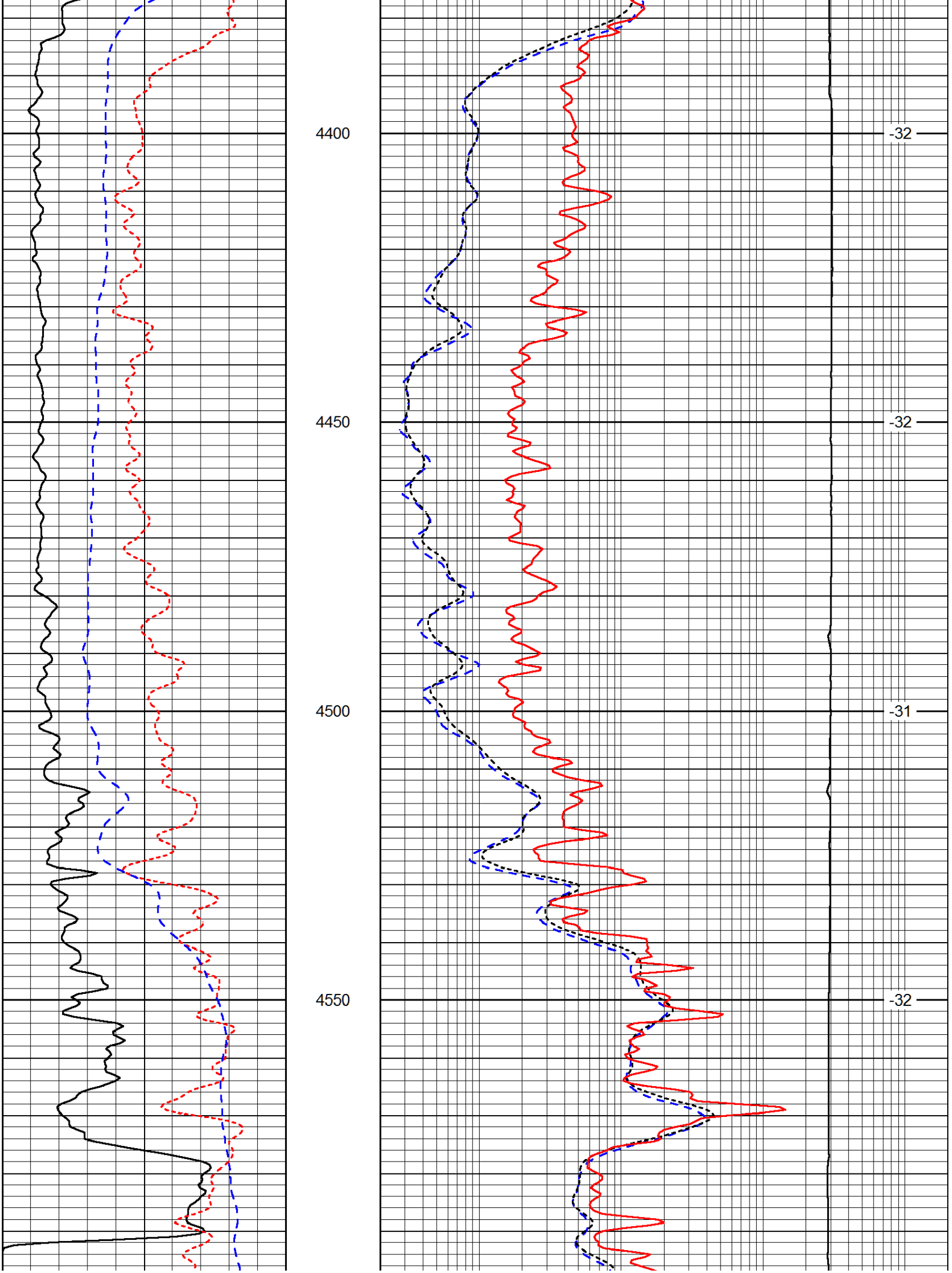

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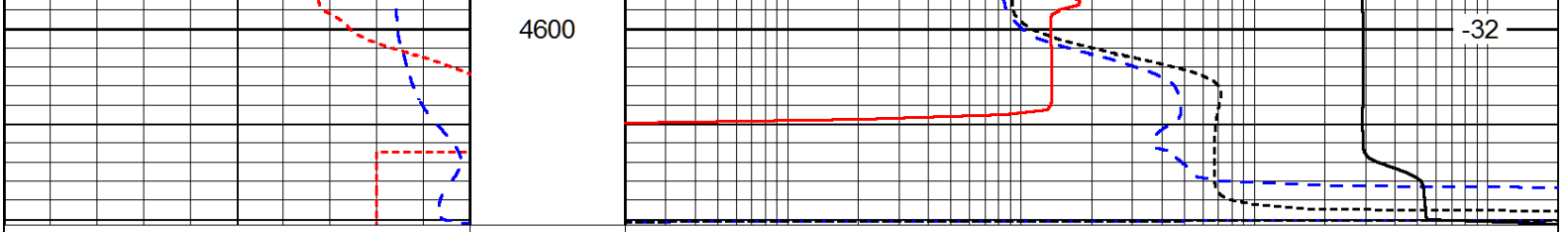

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4400
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0	Gamma Ray (GAPI)	150
-160	RXO/RT	40
-200	SP (mV)	0

0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000
10000	Line Tension (lb)	0

LSPD
(ft/min)