PIONEER

Pioneer Energy Services

Dual Induction Log

Company	Russell Oil, Inc.
Well	Hazel Russell #1-35
Field	Wildcat
County	Thomas
State	Kansas
API No.	15-193-20859-00-00

Location: 4436' FSL & 434' FWL

Sec: 35 Twp: 10S Rge: 34W

Other Services: CNL/CDL, MEL

Elevation: K.B. 3240, D.F. , G.L. 3229

Permanent Datum: Ground Level — Elevation 3229

Log Measured From: Kelly Bushing — 11 Ft. Above Perm. Datum

Drilling Measured From: Kelly Bushing

Date	8/29/2012		
Run Number	One		
Depth Driller	4850		
Depth Logger	4846		
Bottom Logged Interval	4845		
Top Log Interval	250		
Casing Driller	8.625 @ 271		
Casing Logger	264		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity,ppm CL	7000		
Density / Viscosity	9.3 / 59		
pH / Fluid Loss	10.5 / 8.8		
Source of Sample	Flowline		
Rm @ Meas. Temp	0.60 @ 80		
Rmf @ Meas. Temp	0.45 @ 80		
Rmc @ Meas. Temp	0.81 @ 80		
Source of Rmf / Rmc	Charts		
Rm @ BHT	0.38 @ 127		
Operating Rig Time	5 Hours		
Max Rec. Temp. F	127		
Equipment Number	91		
Location	Hays		
Recorded By	D. Schmidt		
Witnessed By	Kitt Noah		

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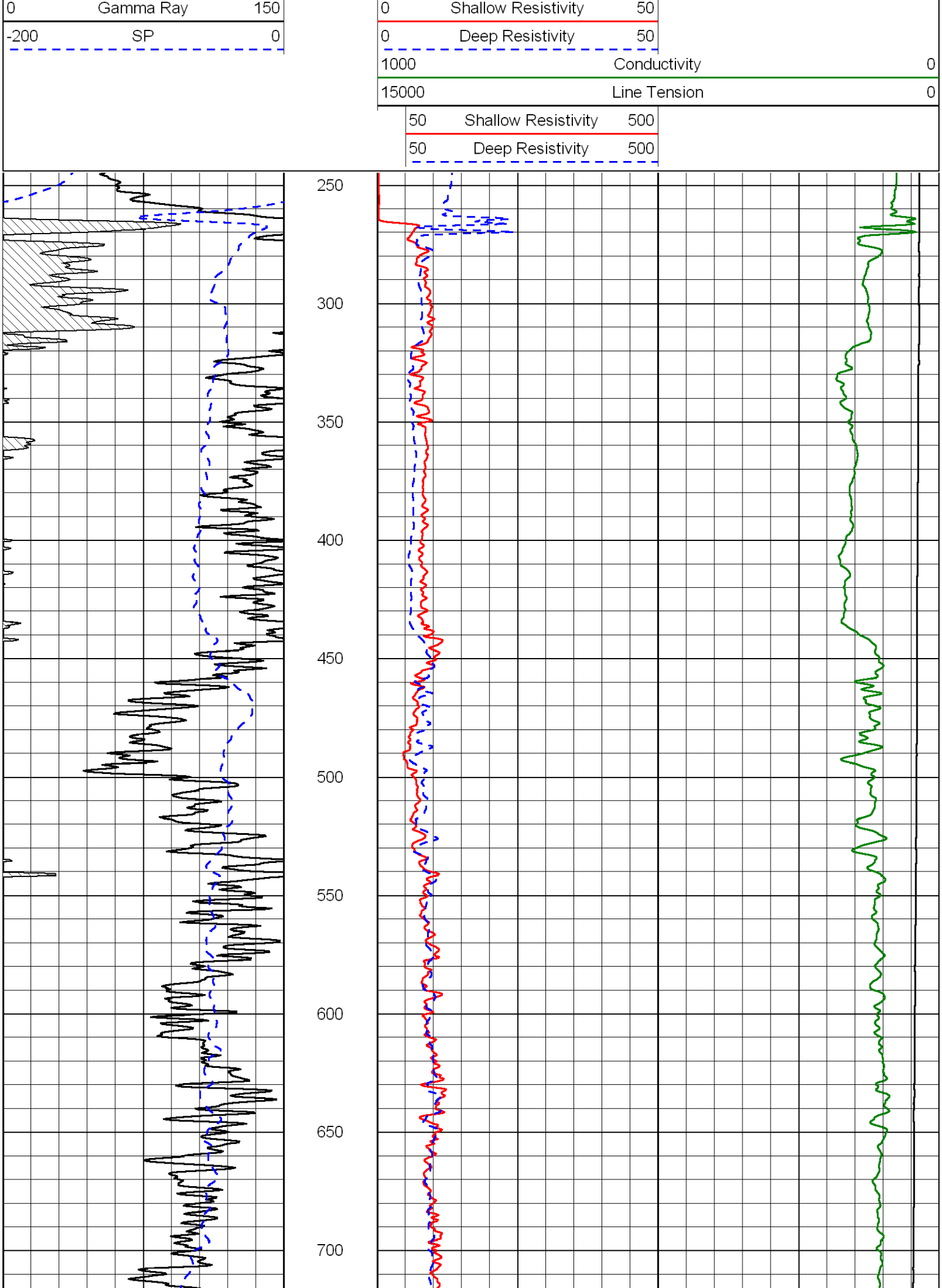
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

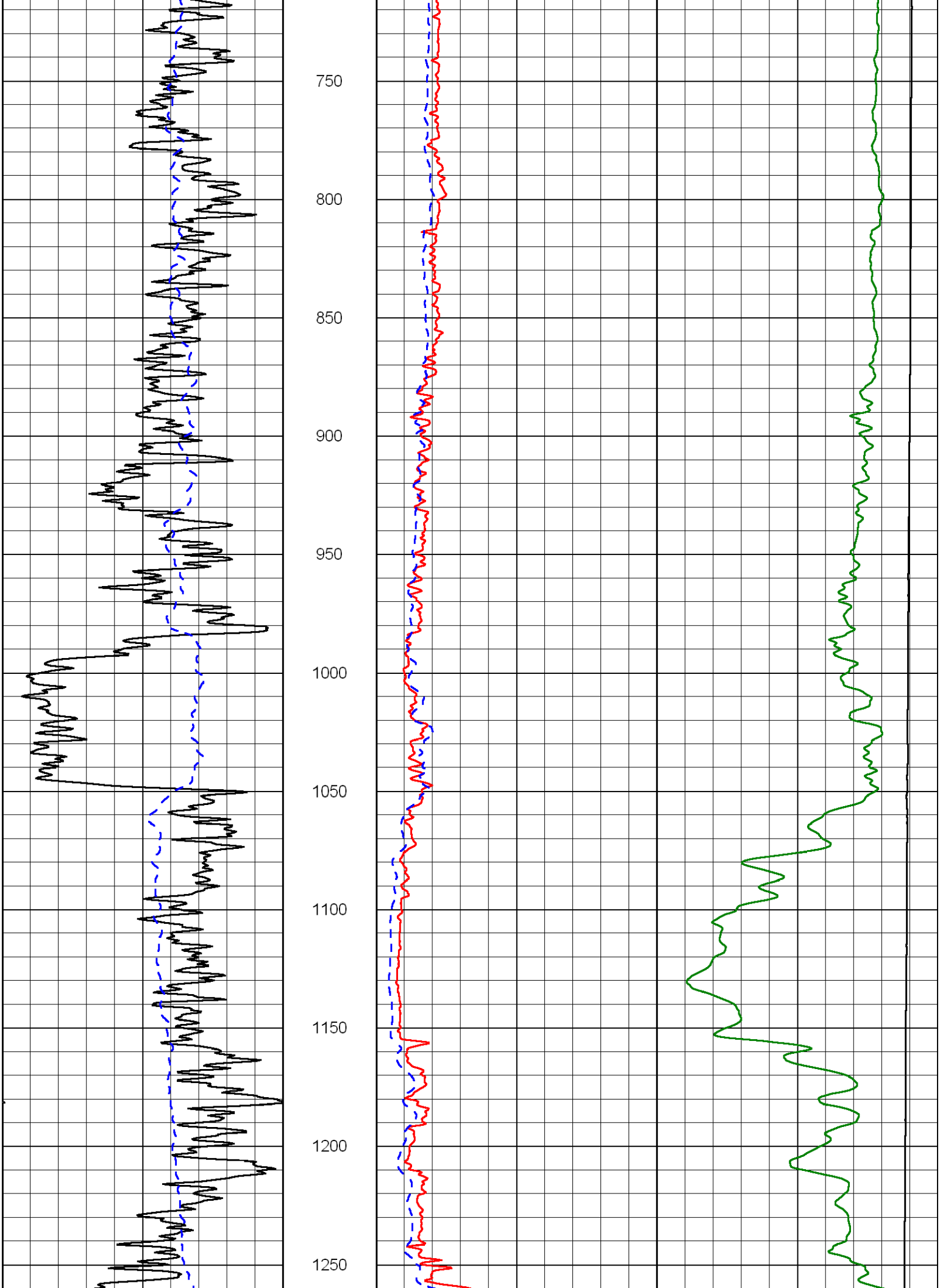
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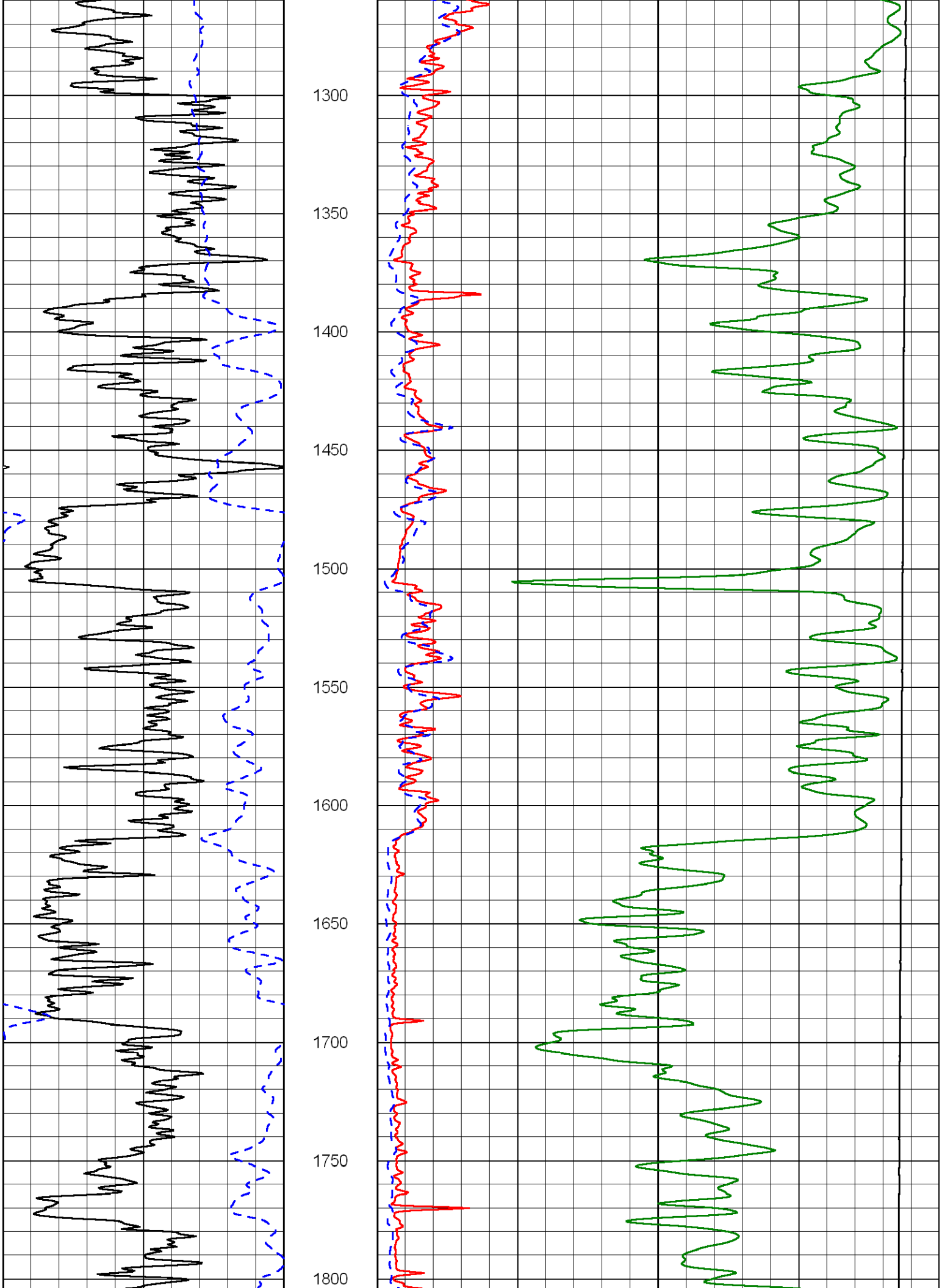
Thank you for using Log-Tech, Inc.
(785) 625-3858

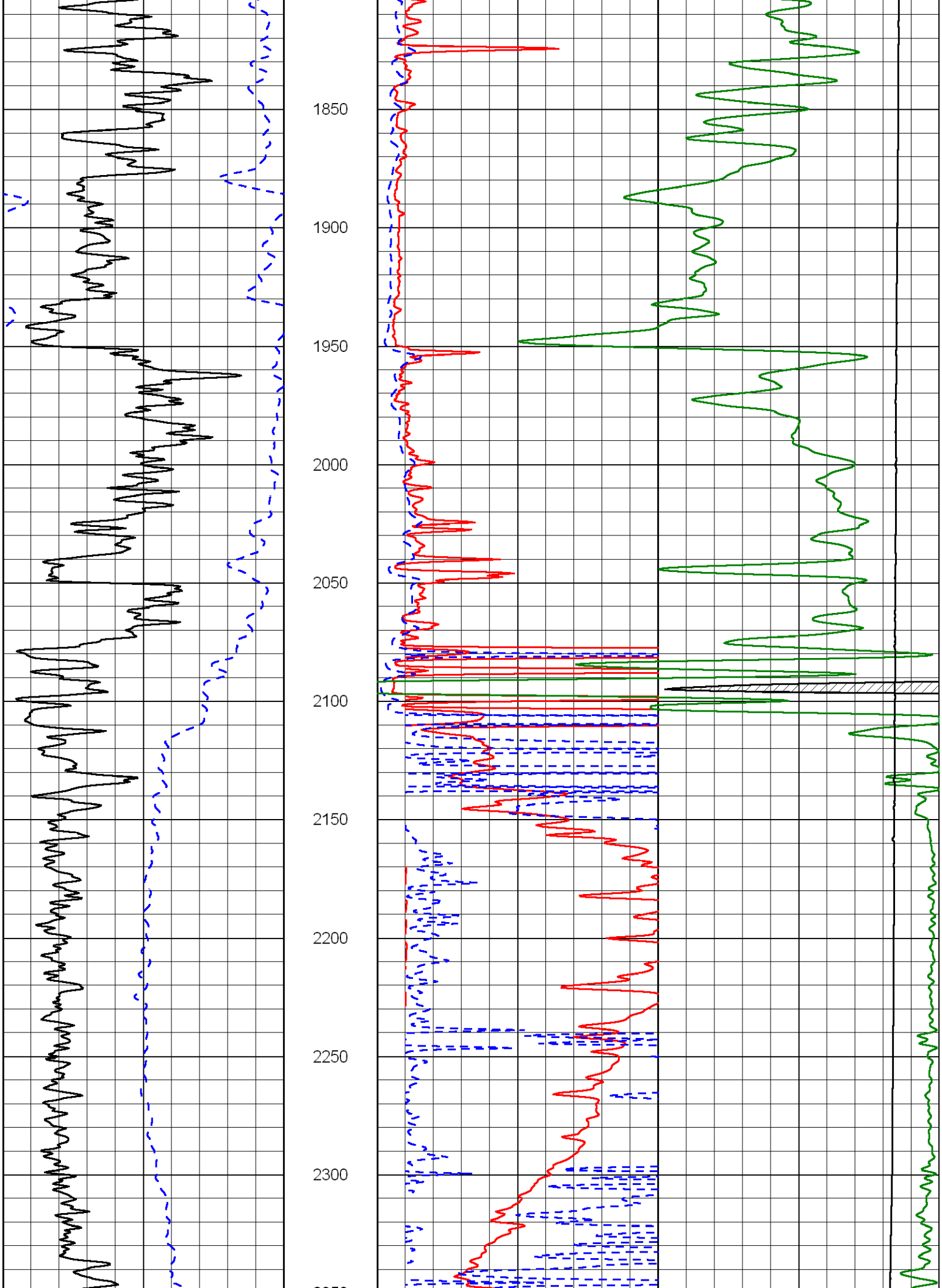
Monument,
West to Hwy 25, 2 North to county line (Fort Fox Rd),
2 West, North to location

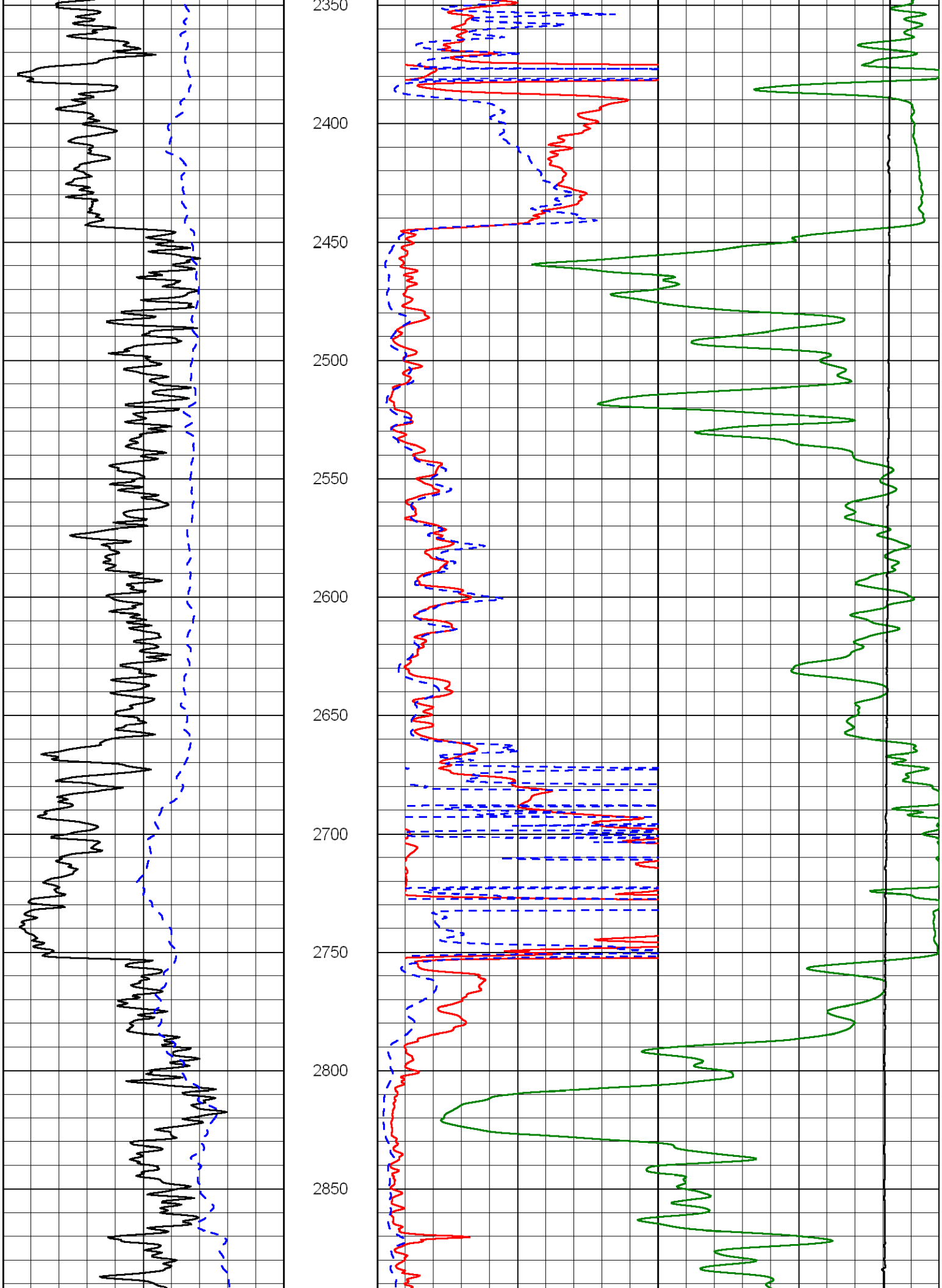
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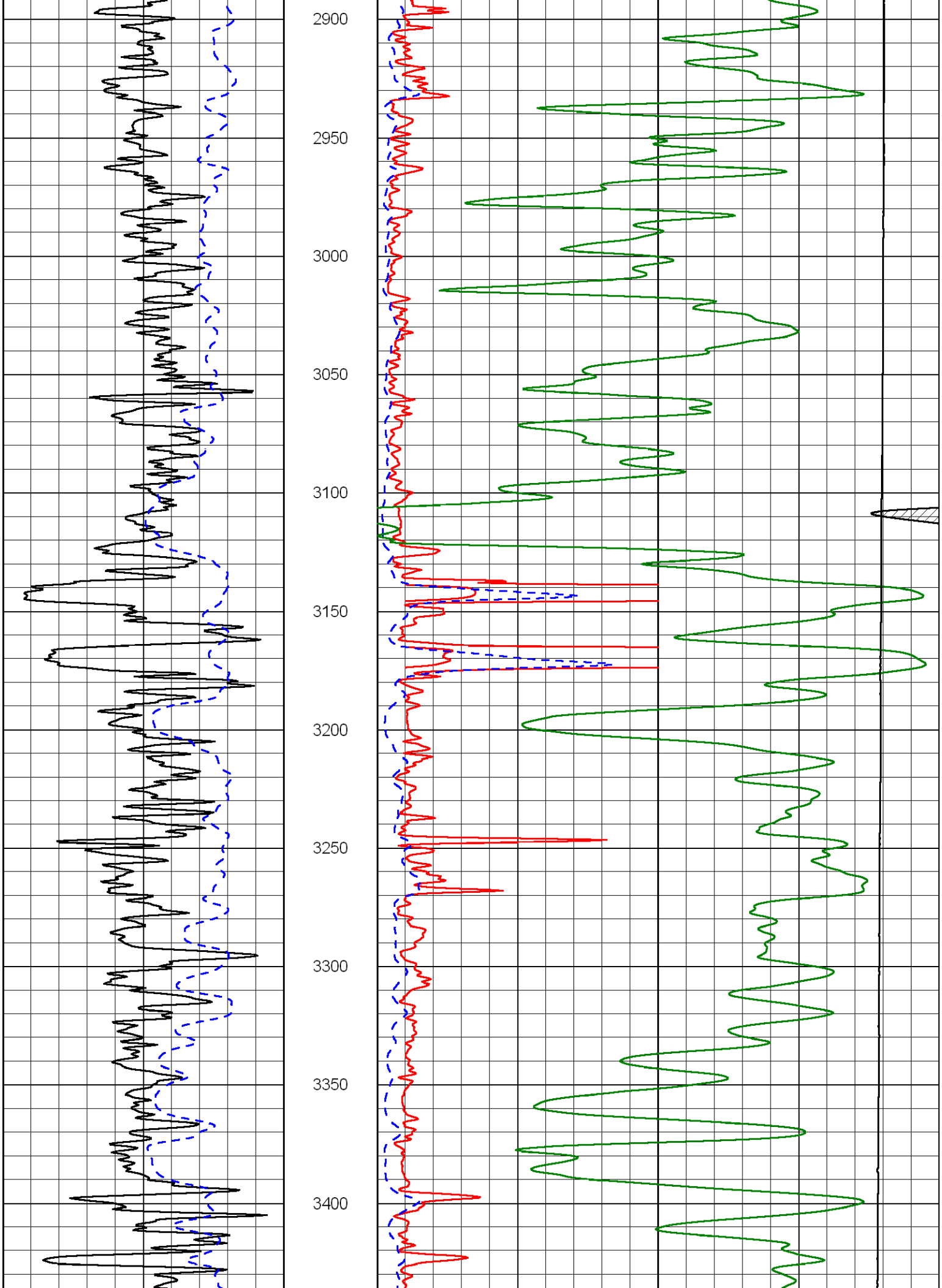

0 Gamma Ray 150
-200 SP 0
0 Shallow Resistivity 50
0 Deep Resistivity 50
1000 Conductivity 0
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50 Deep Resistivity 500
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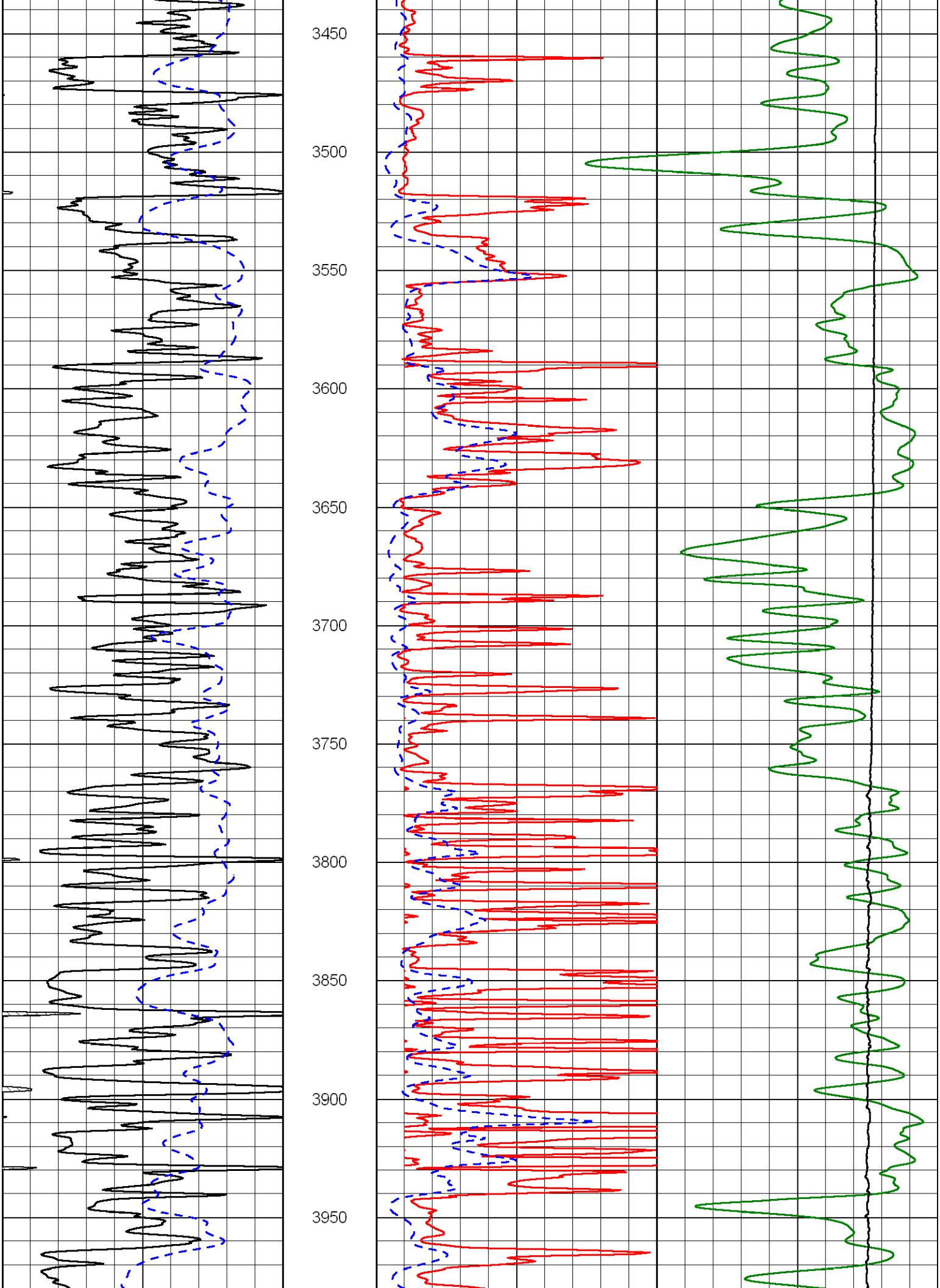

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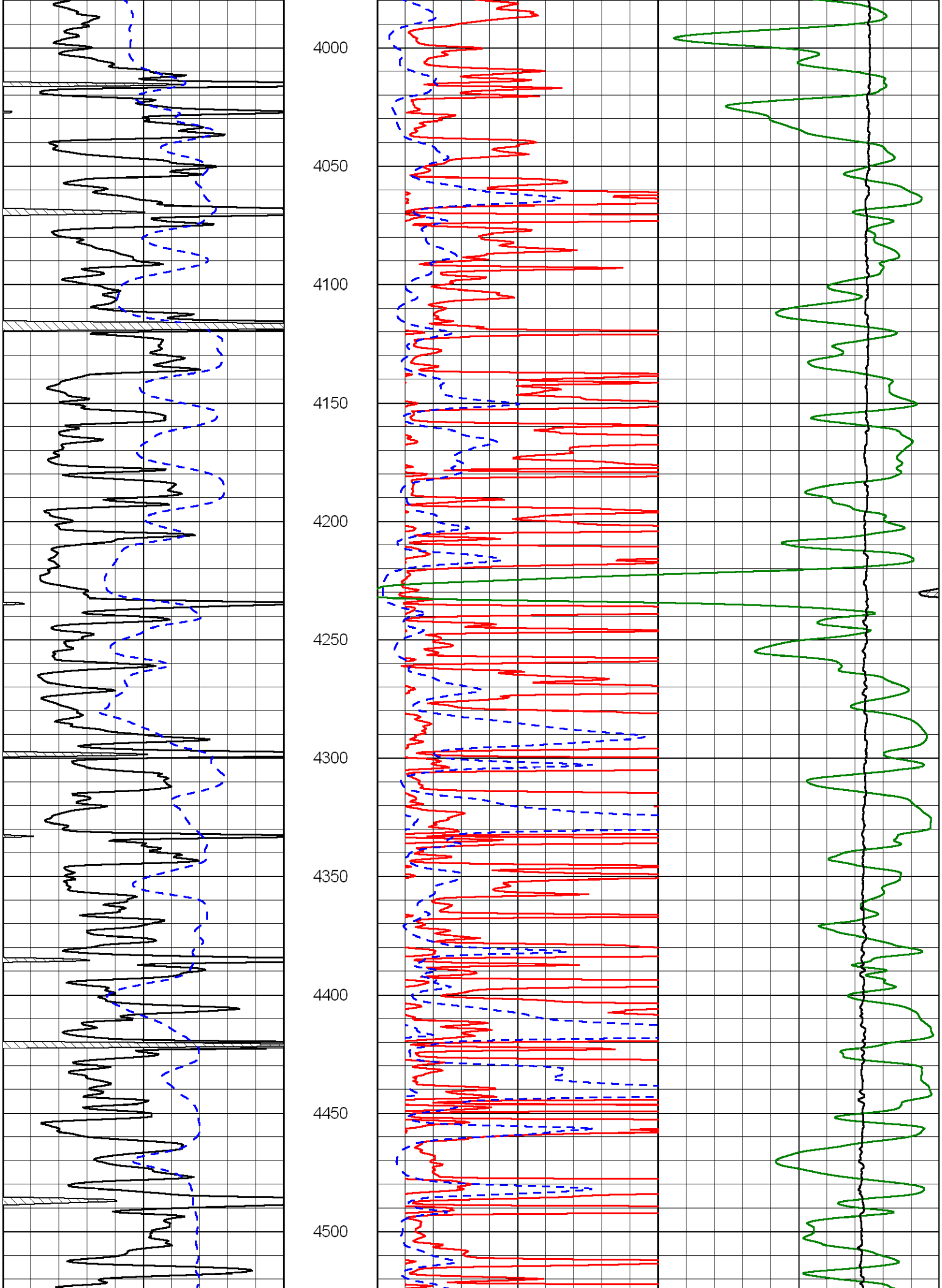

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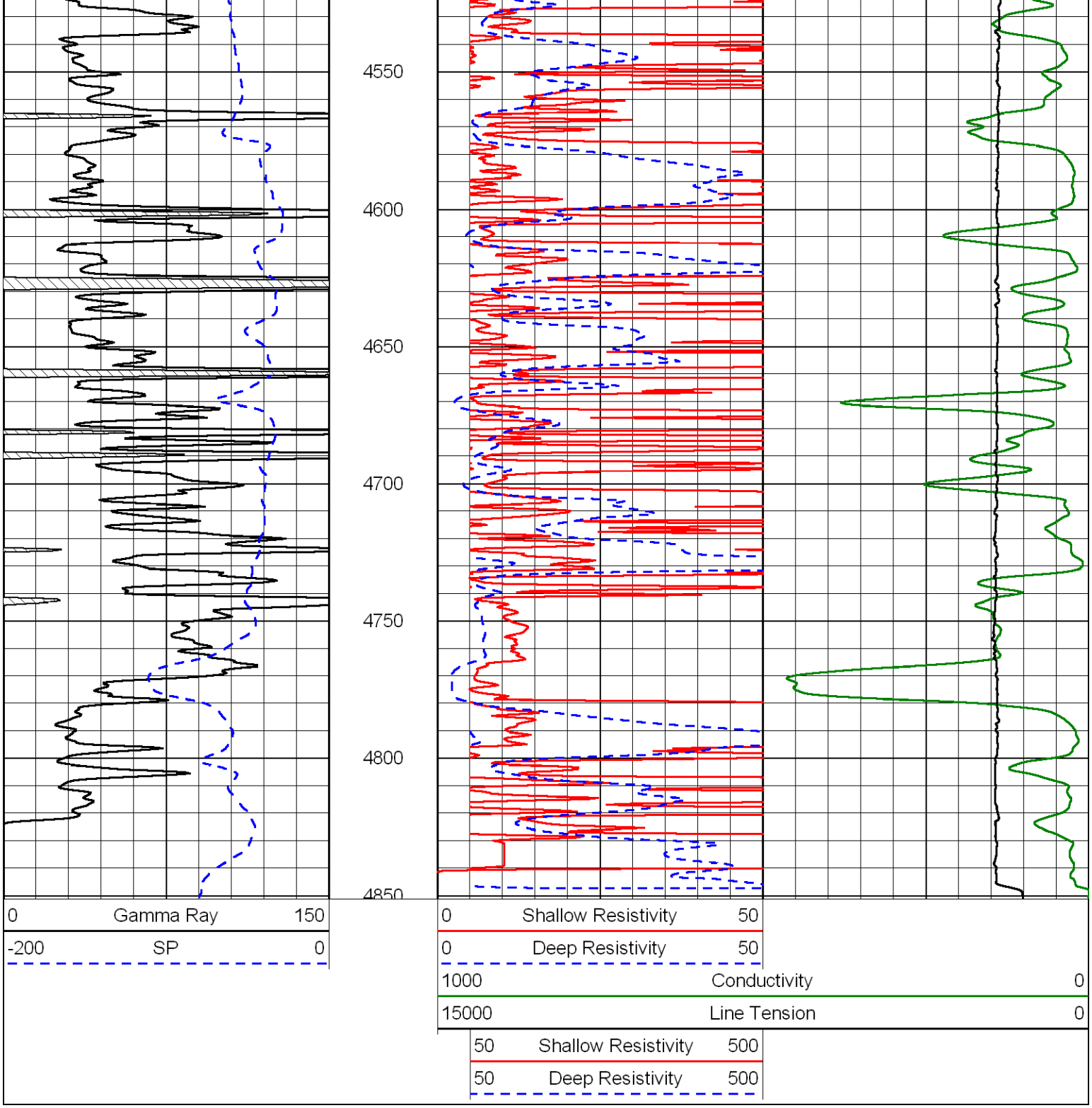

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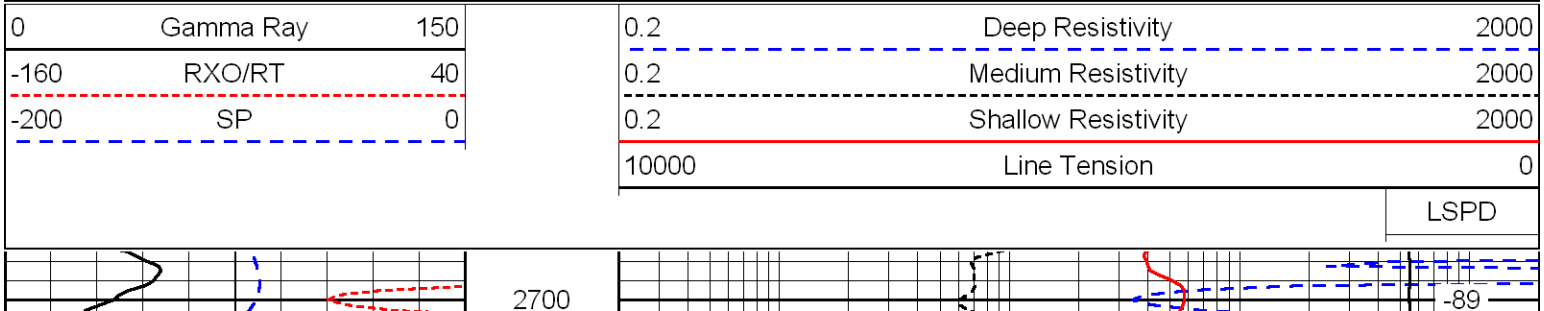

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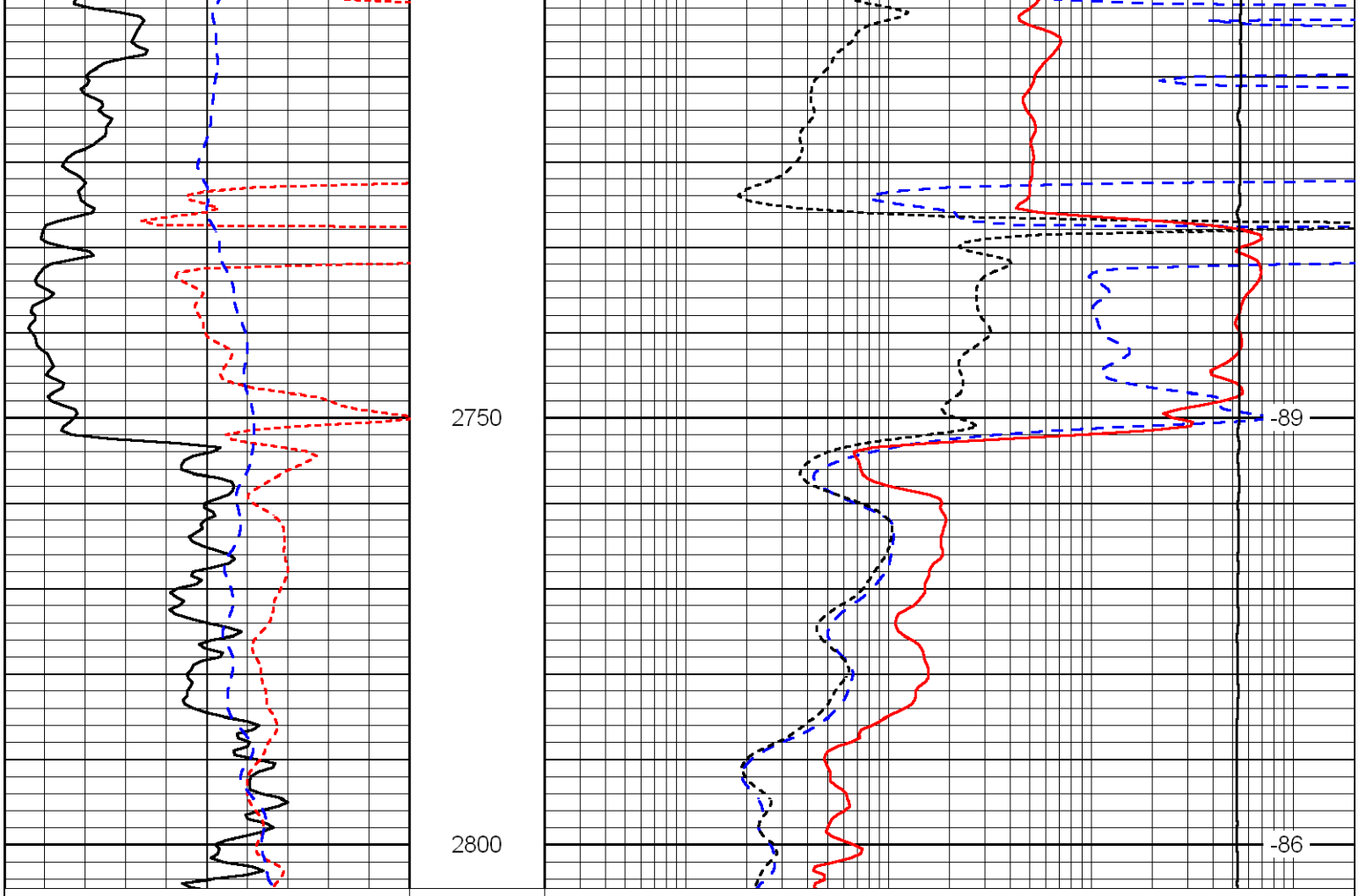

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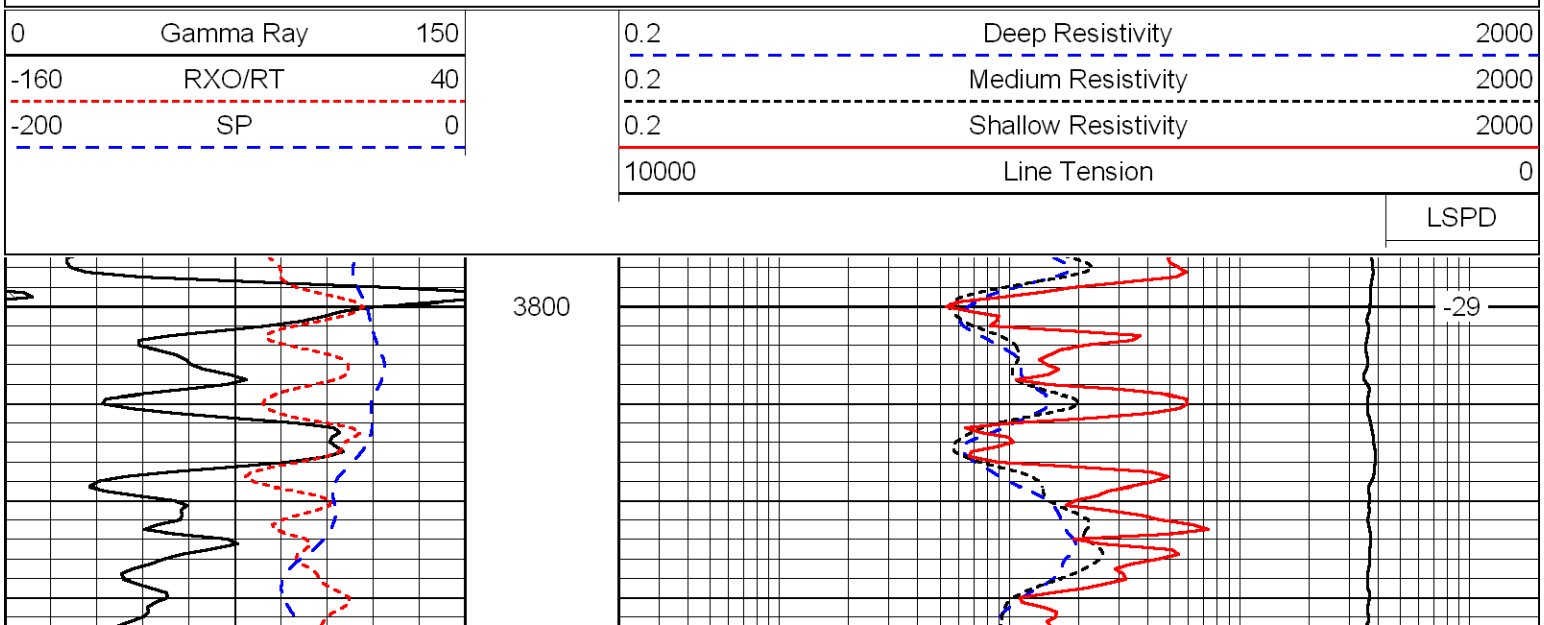


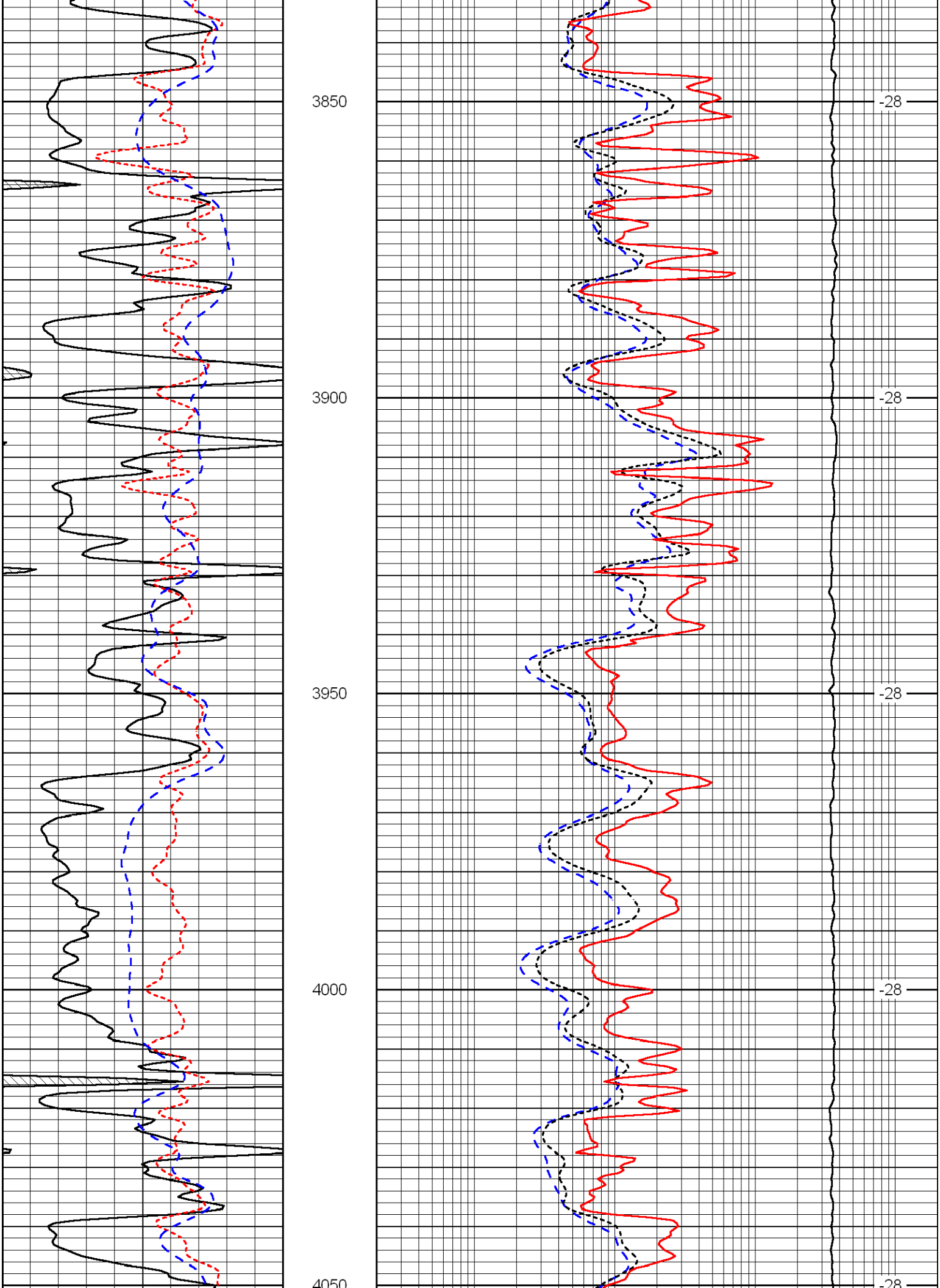
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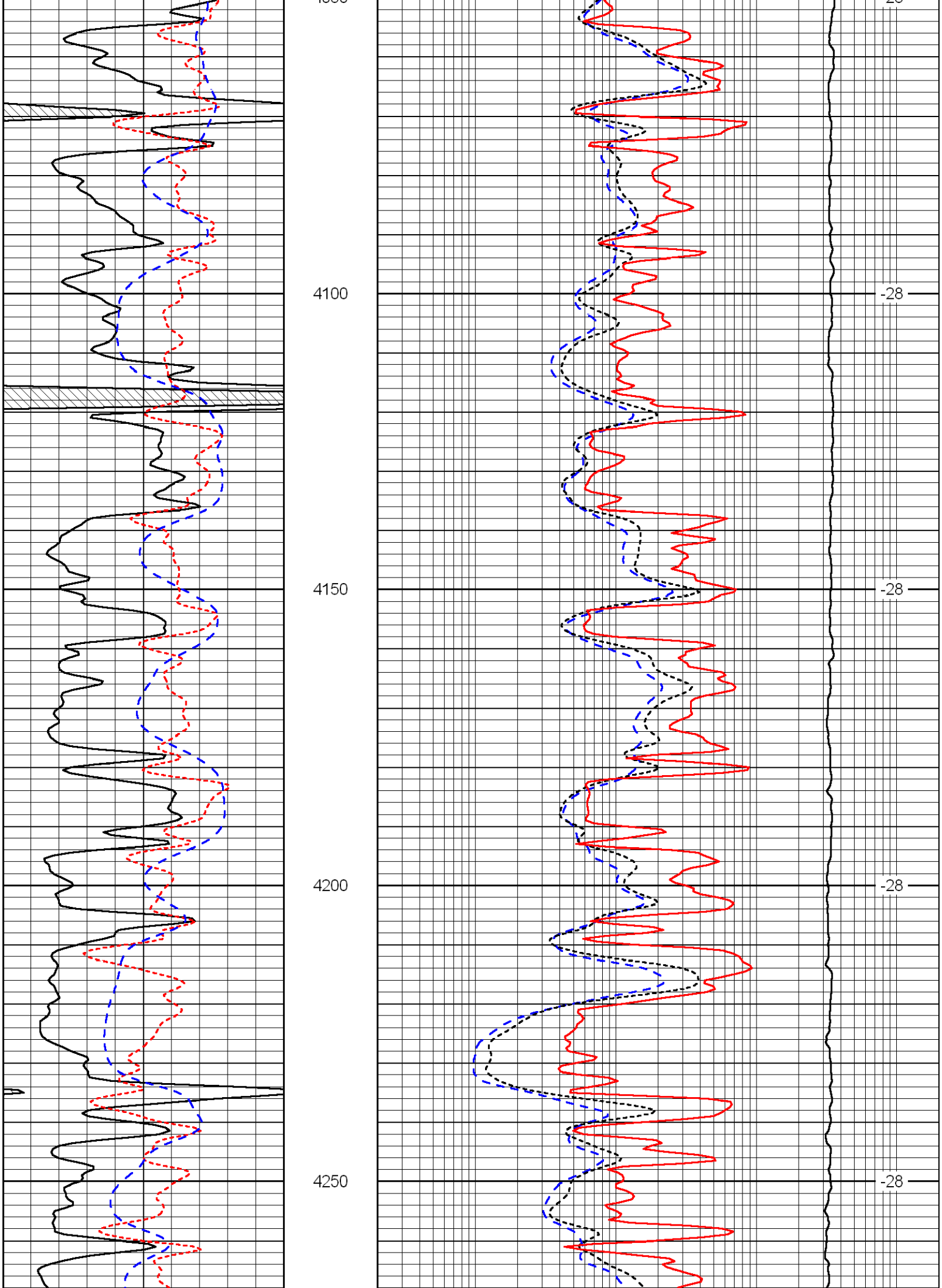


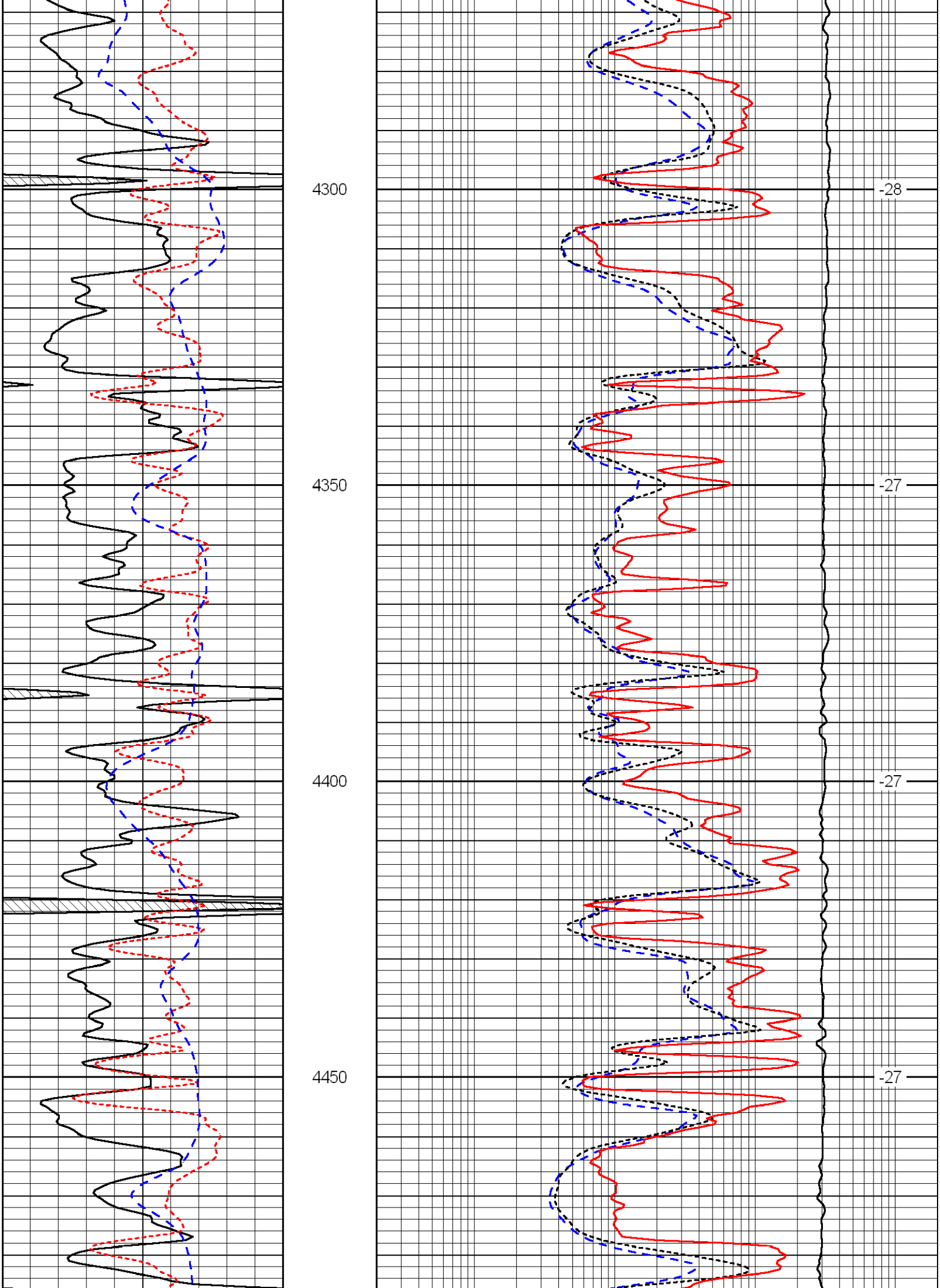


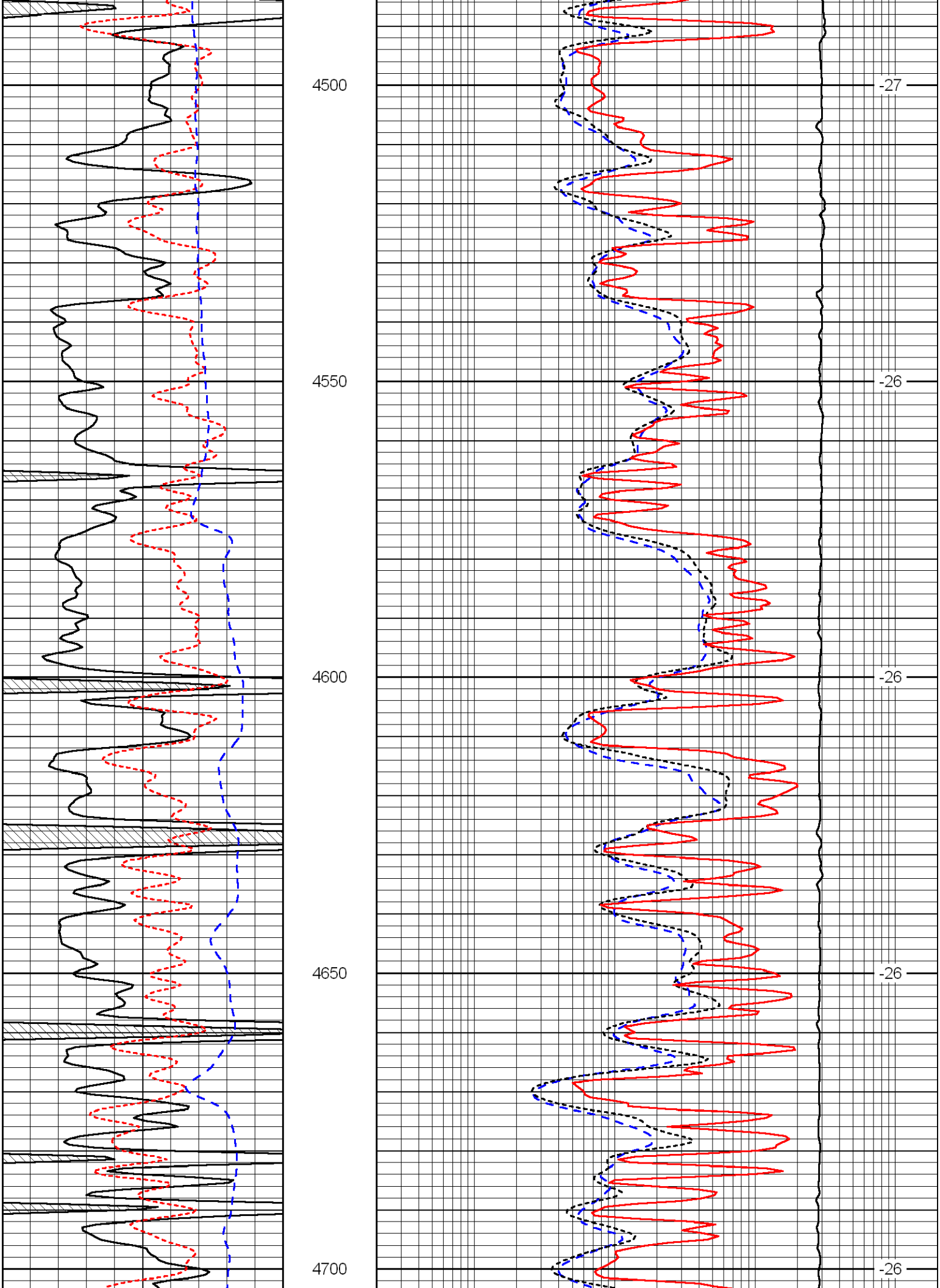
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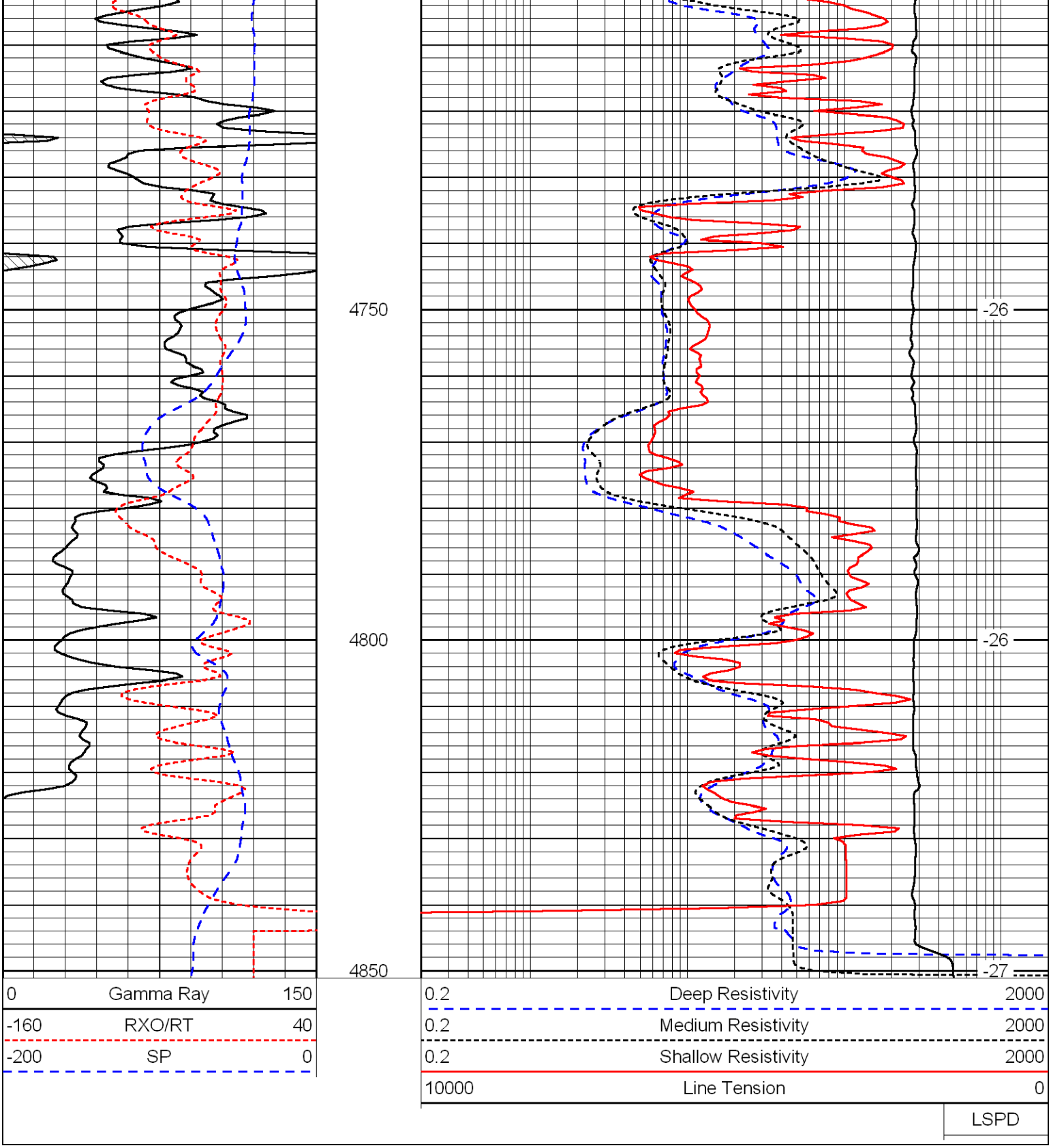



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Gamma Ray
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RXO/RT
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-200
SP
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0.2
Deep Resistivity
2000
0.2
Medium Resistivity
2000
0.2
Shallow Resistivity
2000
10000
Line Tension
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LSPD