PIONEER

Pioneer Energy Services

Dual Induction Log

Company	Toto Energy, LLC
Well	Packard #24-1
Field	Nurse
County	Barber
State	Kansas
API No.	15-007-24,029-00-00
Location	1536' FNL & 625' FWL
Sec: 24	Twp: 31S Rge: 13W
Permanent Datum	Ground Level
Log Measured From	Kelly Bushing 11 Ft. Above Perm. Datum
Drilling Measured From	Kelly Bushing
Other Services	CNL/CDL MEL/BHCS
Elevation	K.B. 1636 D.F. G.L. 1625

Date	6/26/2013		
Run Number	One		
Depth Driller	4750		
Depth Logger	4753		
Bottom Logged Interval	4752		
Top Log Interval	400		
Casing Driller	8.625 @ 442		
Casing Logger	442		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity,ppm CL	7,000		
Density / Viscosity	9.2	53	
pH / Fluid Loss	9.0	10.4	
Source of Sample	Flowline		
Rm @ Meas. Temp	.3 @ 76		
Rmf @ Meas. Temp	.23 @ 76		
Rmc @ Meas. Temp	.41 @ 76		
Source of Rmf / Rmc	Charts		
Rm @ BHT	.18 @ 124		
Operating Rig Time	5 Hours		
Max Rec. Temp. F	124		
Equipment Number	17		
Location	Hays		
Recorded By	C. Desaire		
Witnessed By	Terry Madden	Sean Deenihan	

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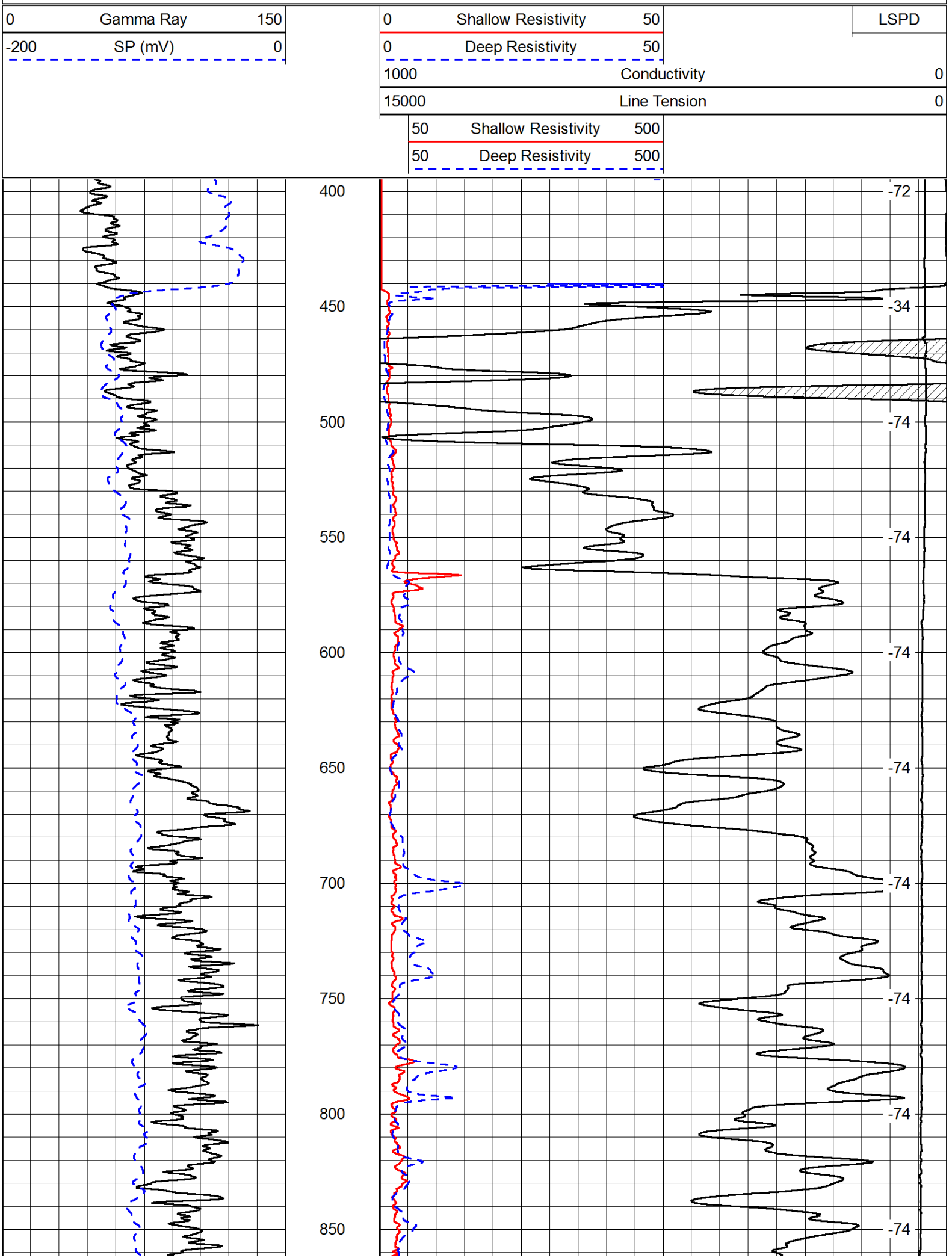
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

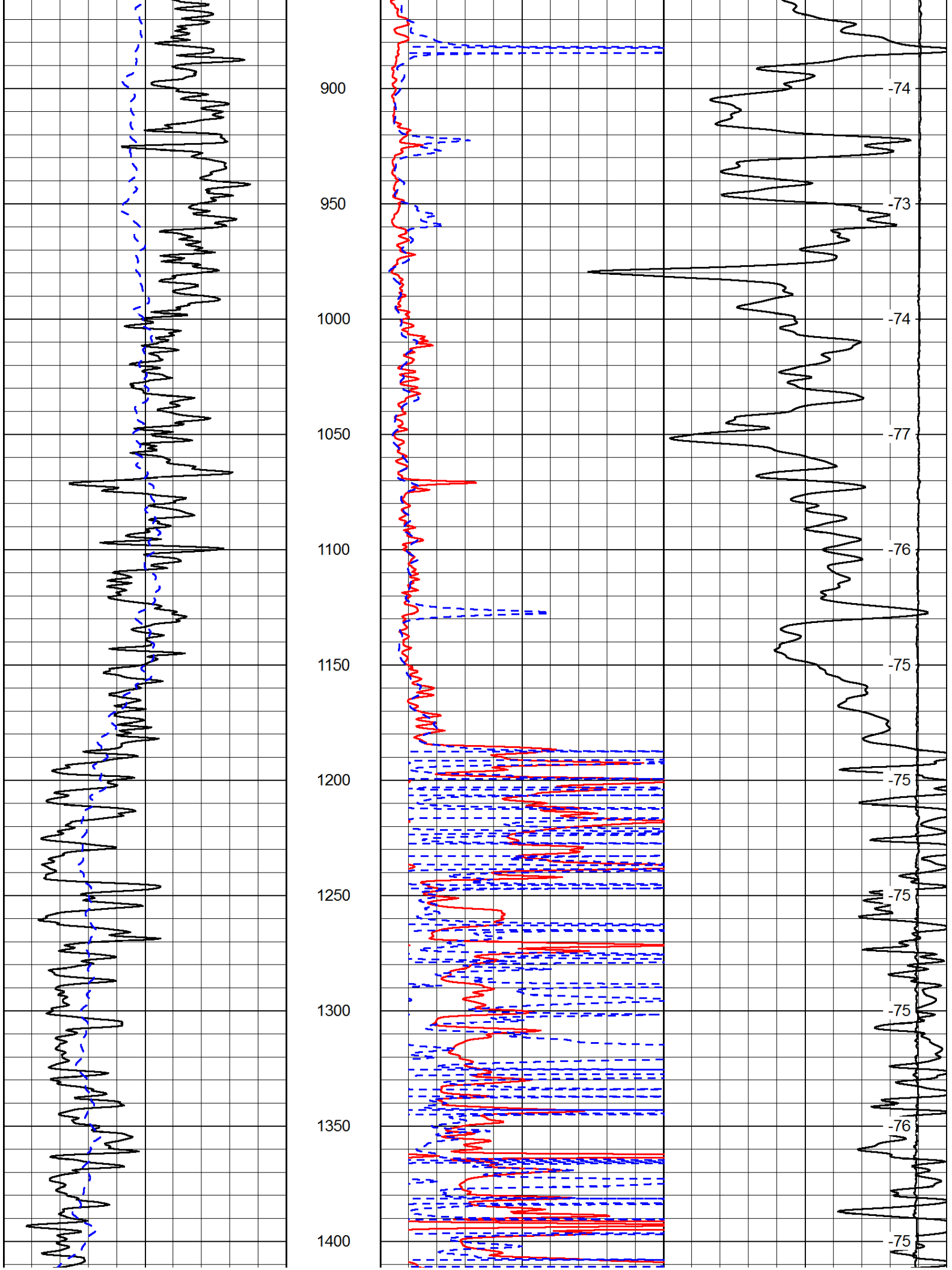
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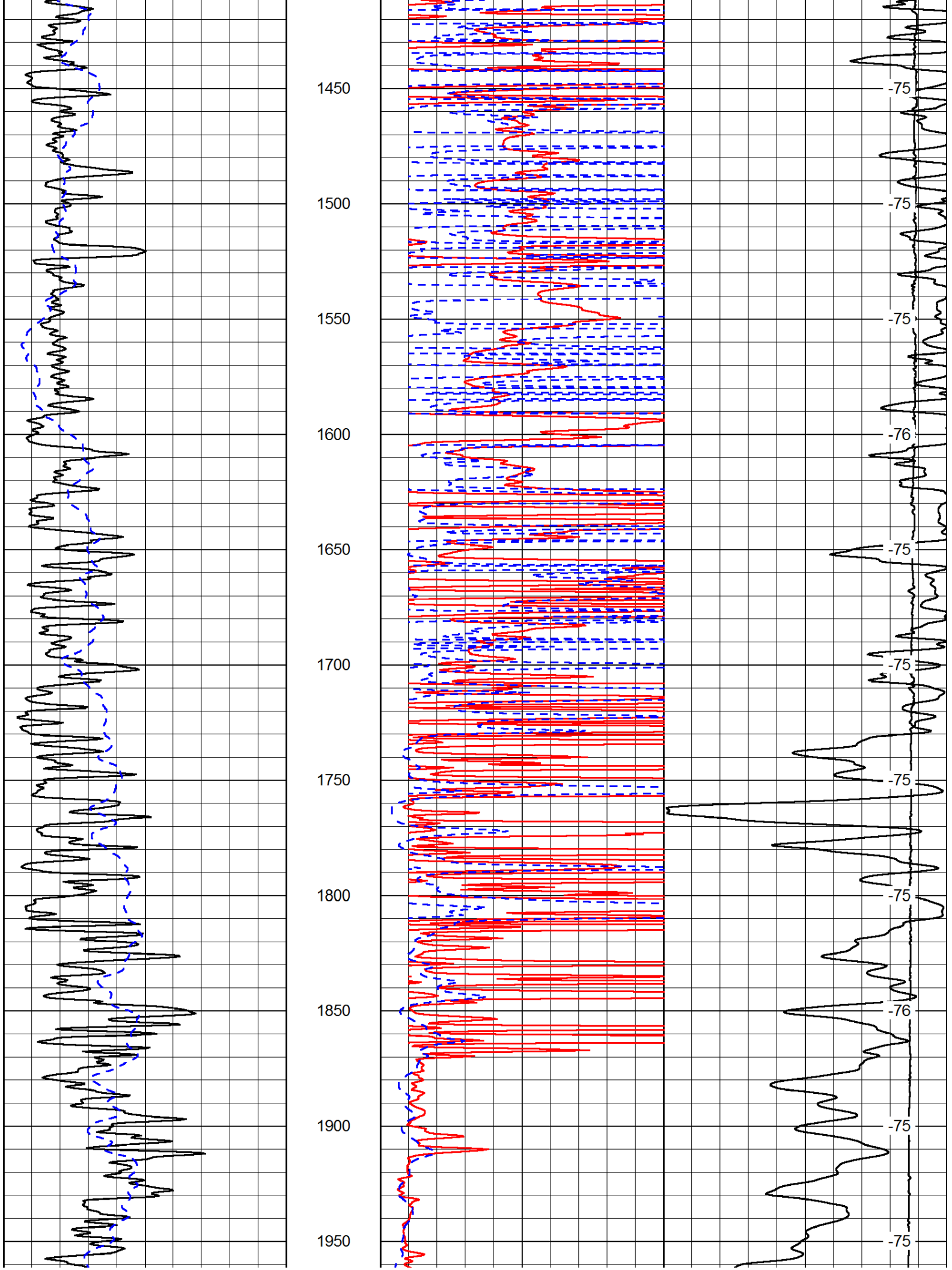
Thank you for using Pioneer Energy Services
www.pioneeres.com
785 625 3858

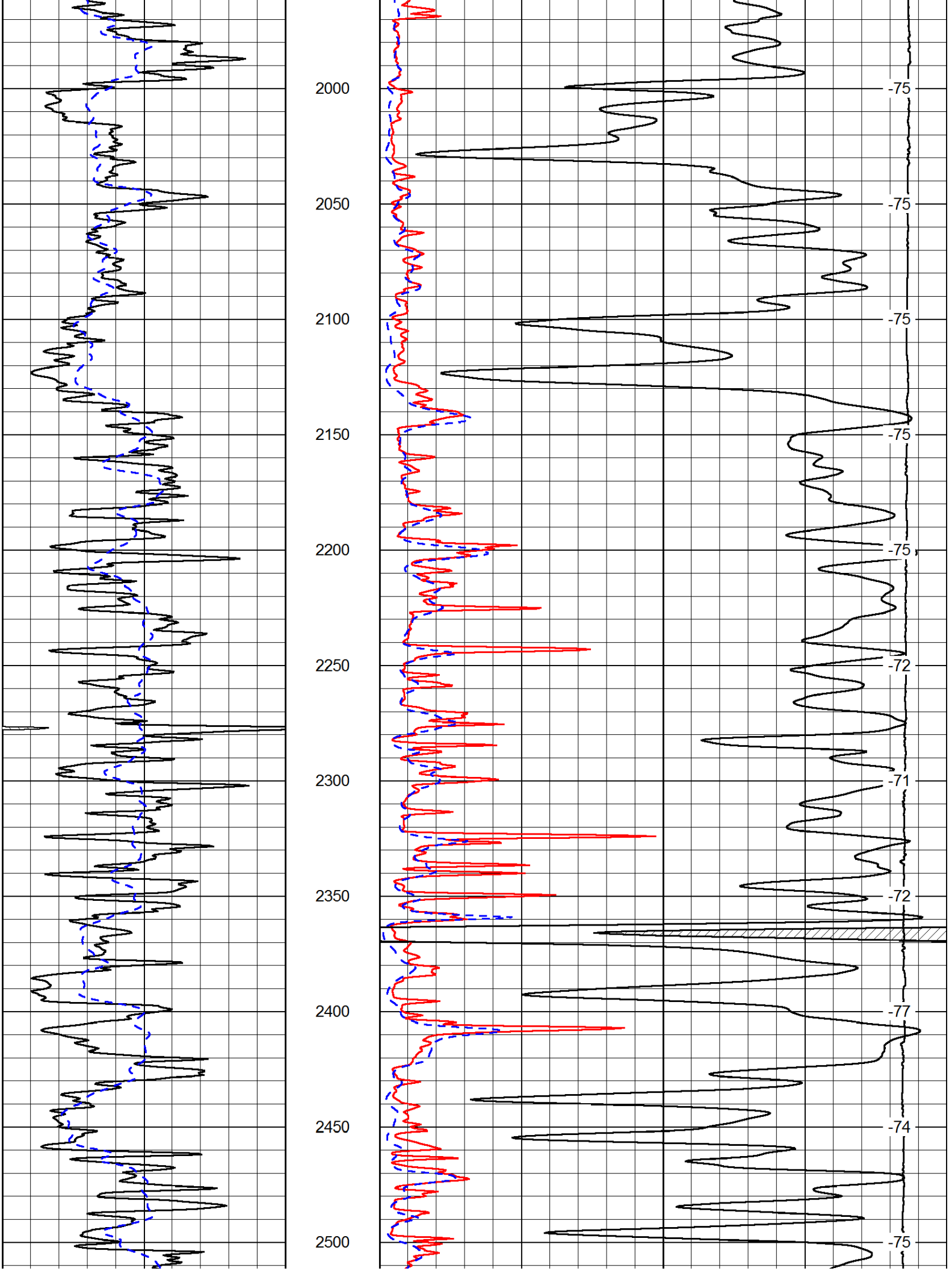
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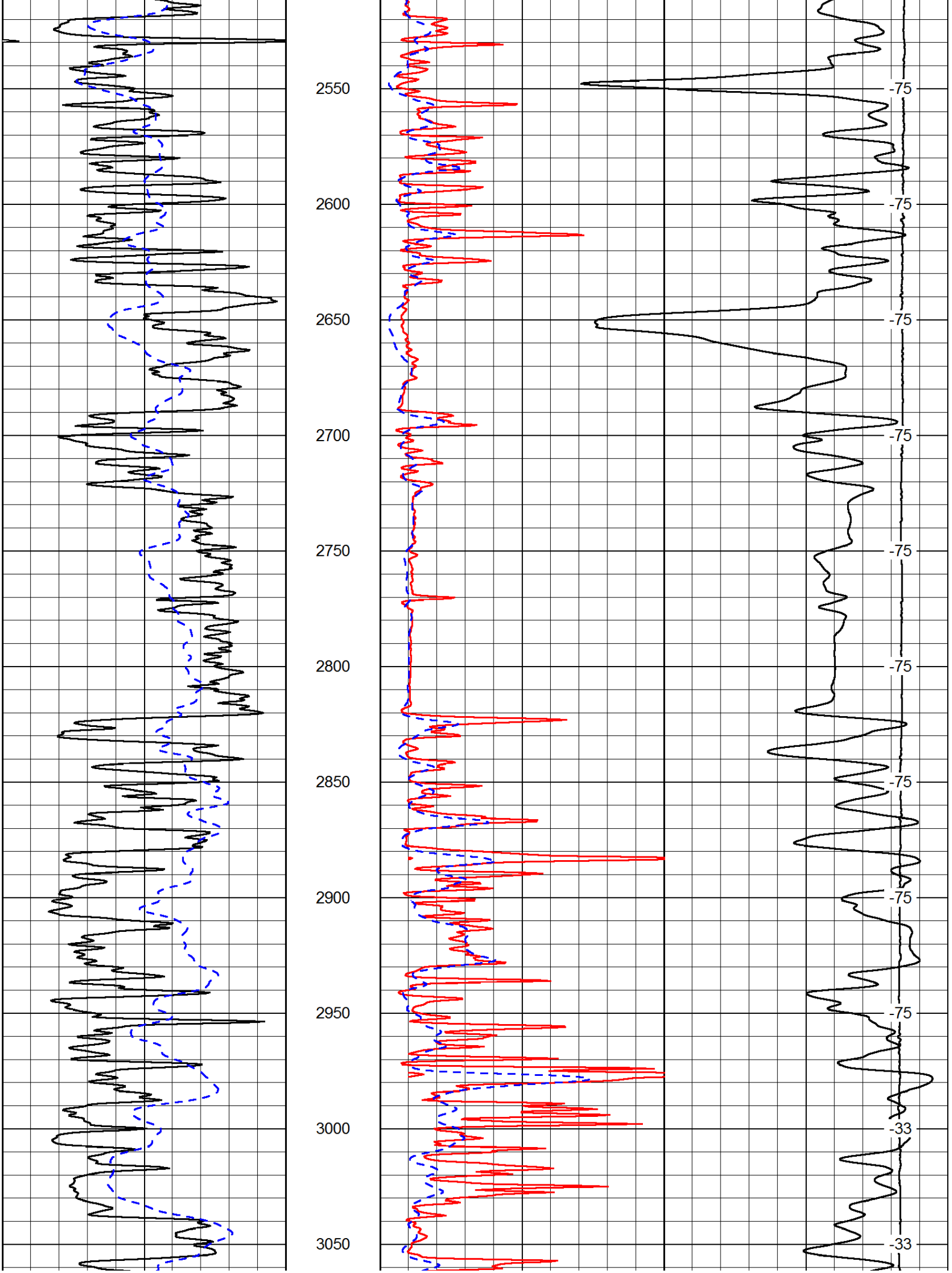
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Charted by:	Depth in Feet scaled 1:600

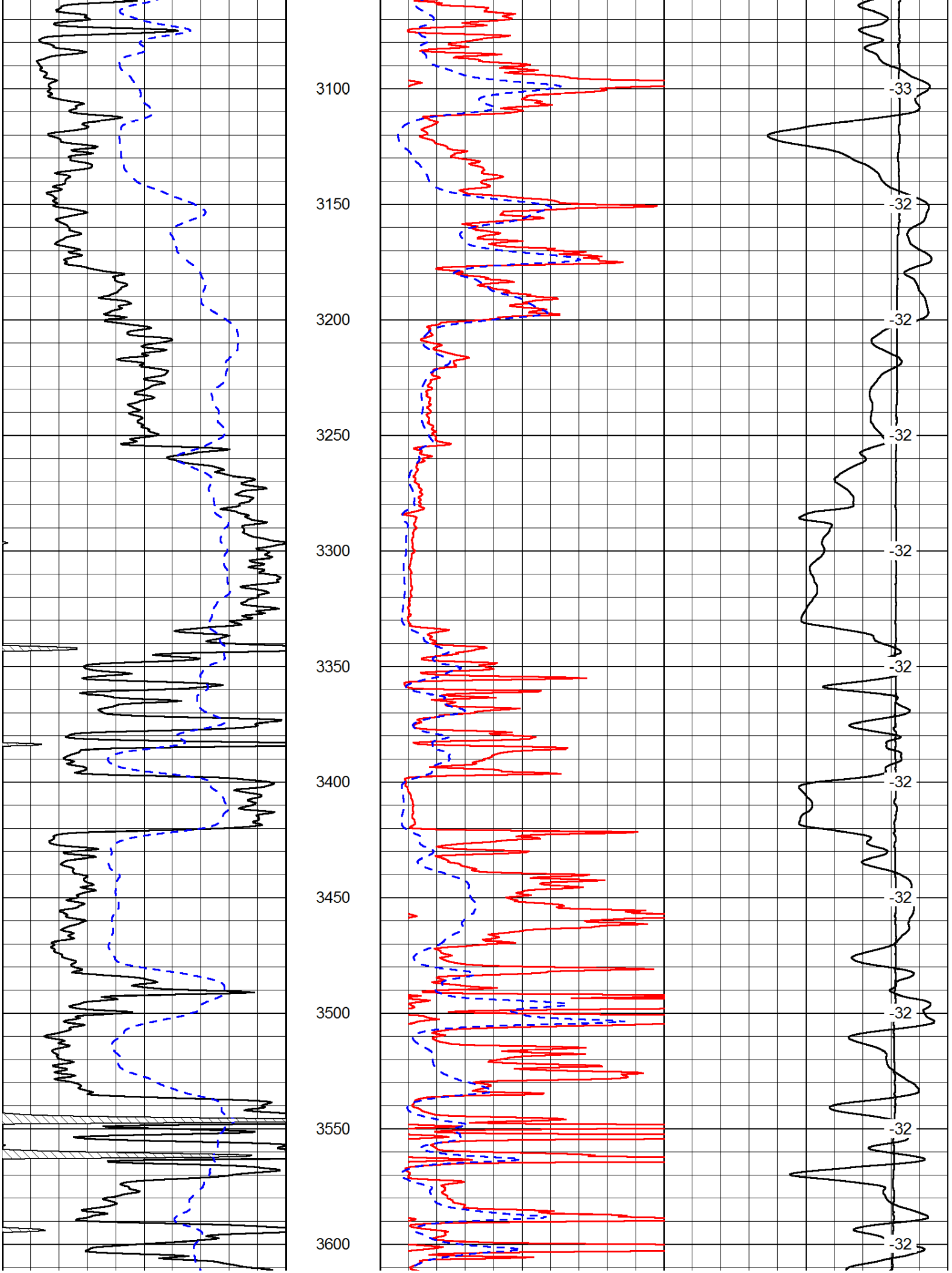

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-200 SP (mV) 0
0 Shallow Resistivity 50
0 Deep Resistivity 50
1000 Conductivity 0
15000 Line Tension 0
50 Shallow Resistivity 500
50 Deep Resistivity 500
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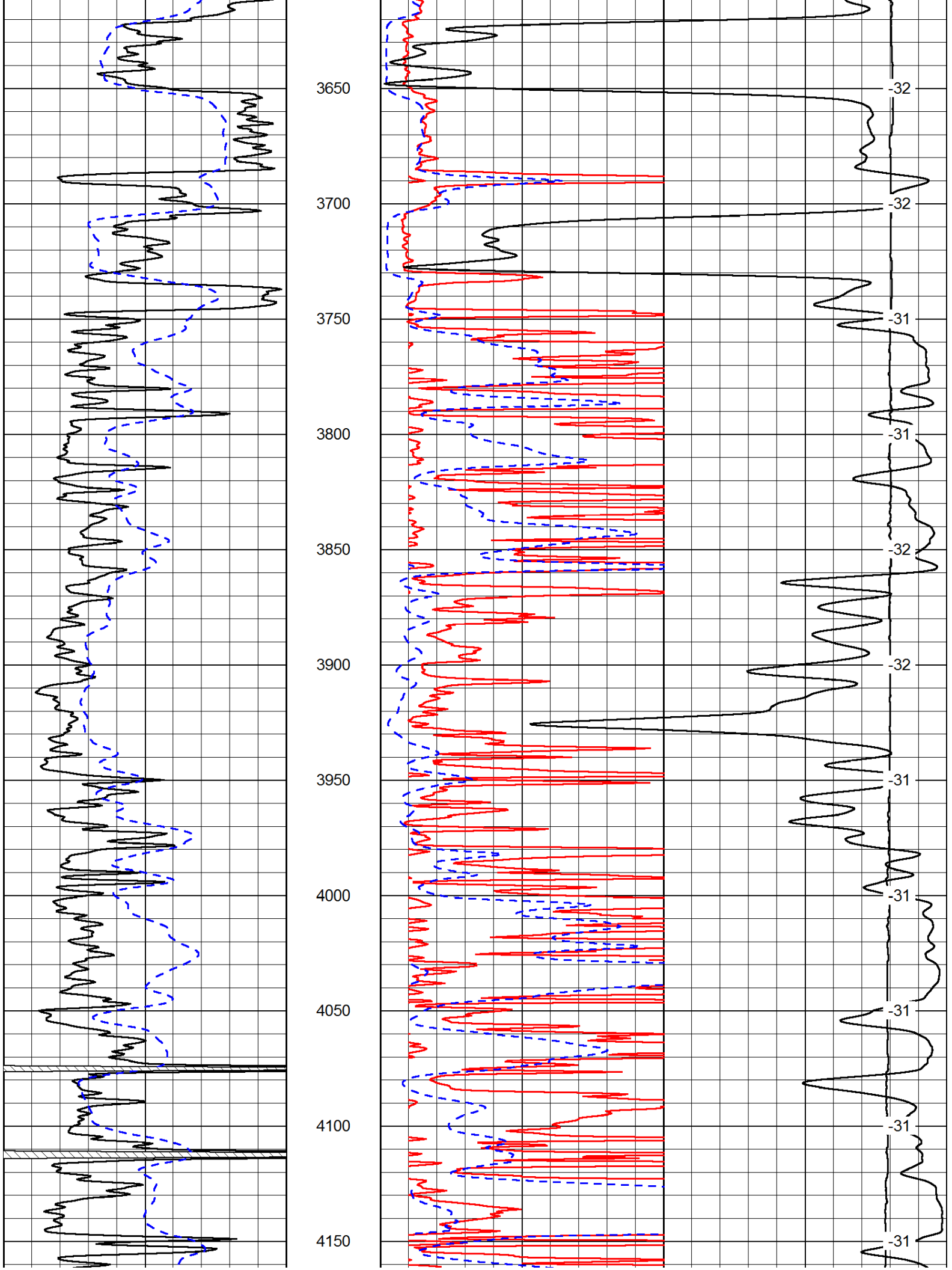

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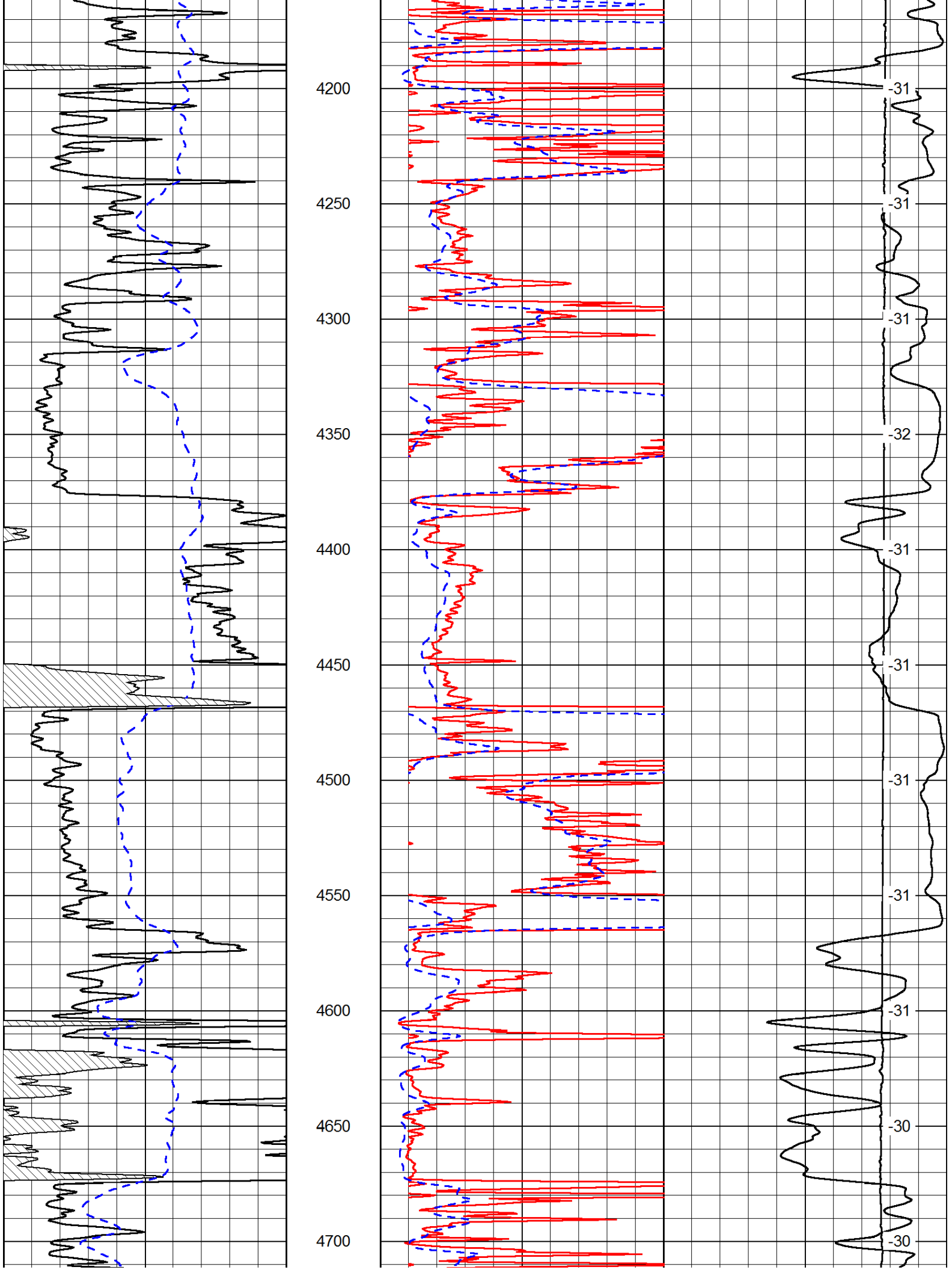

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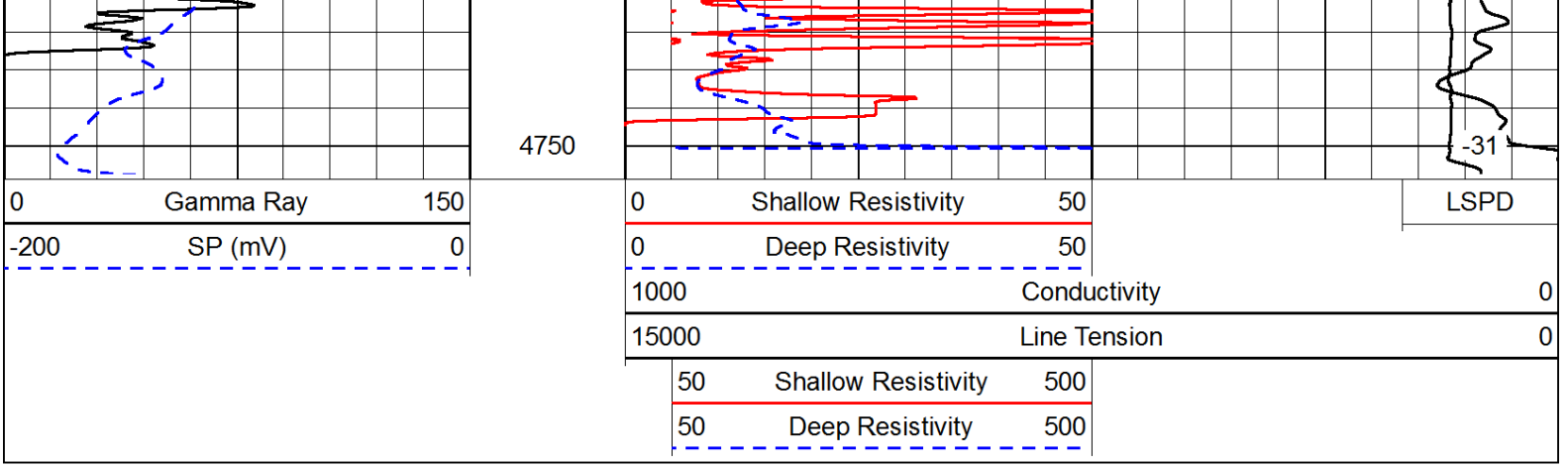

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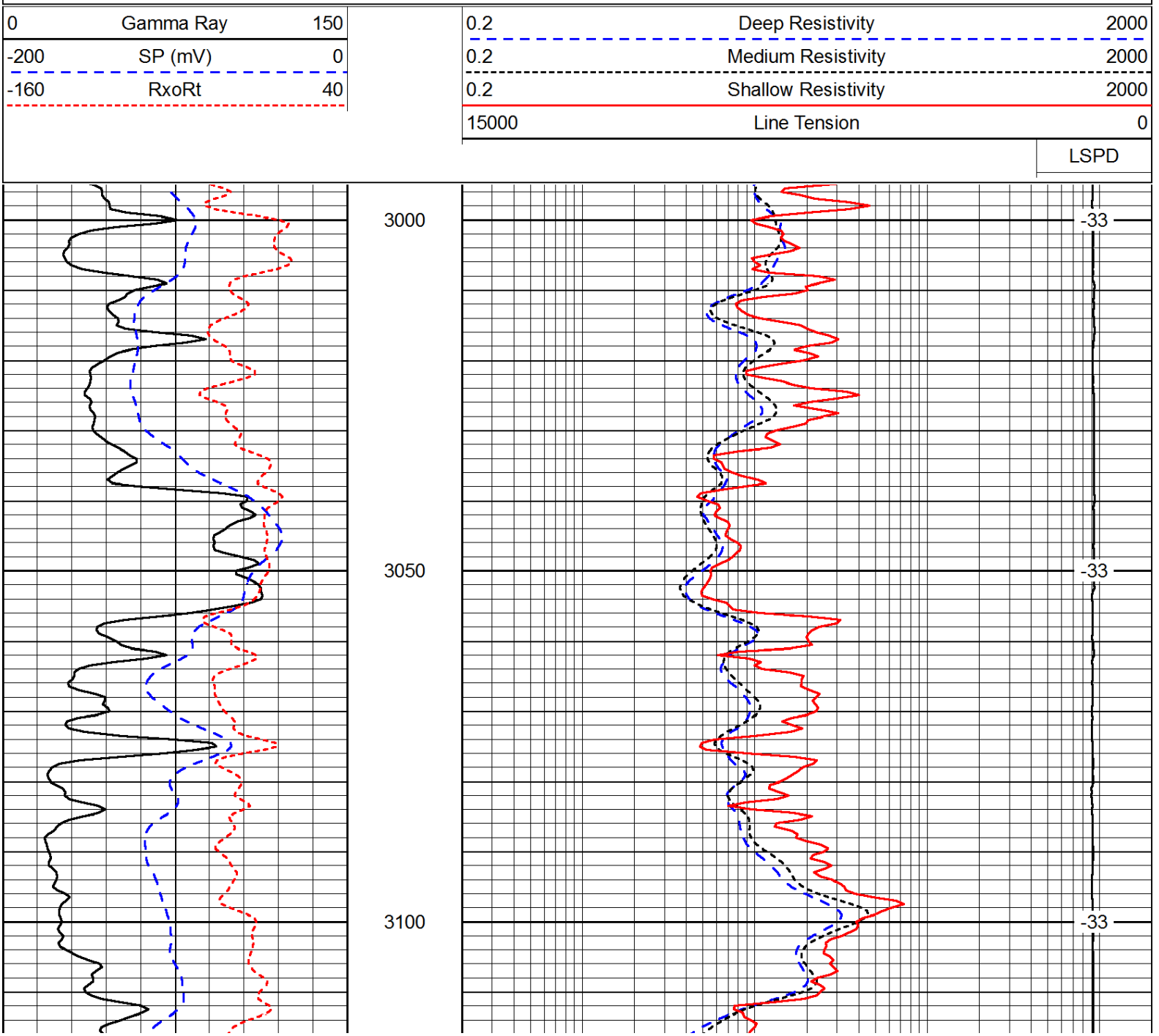

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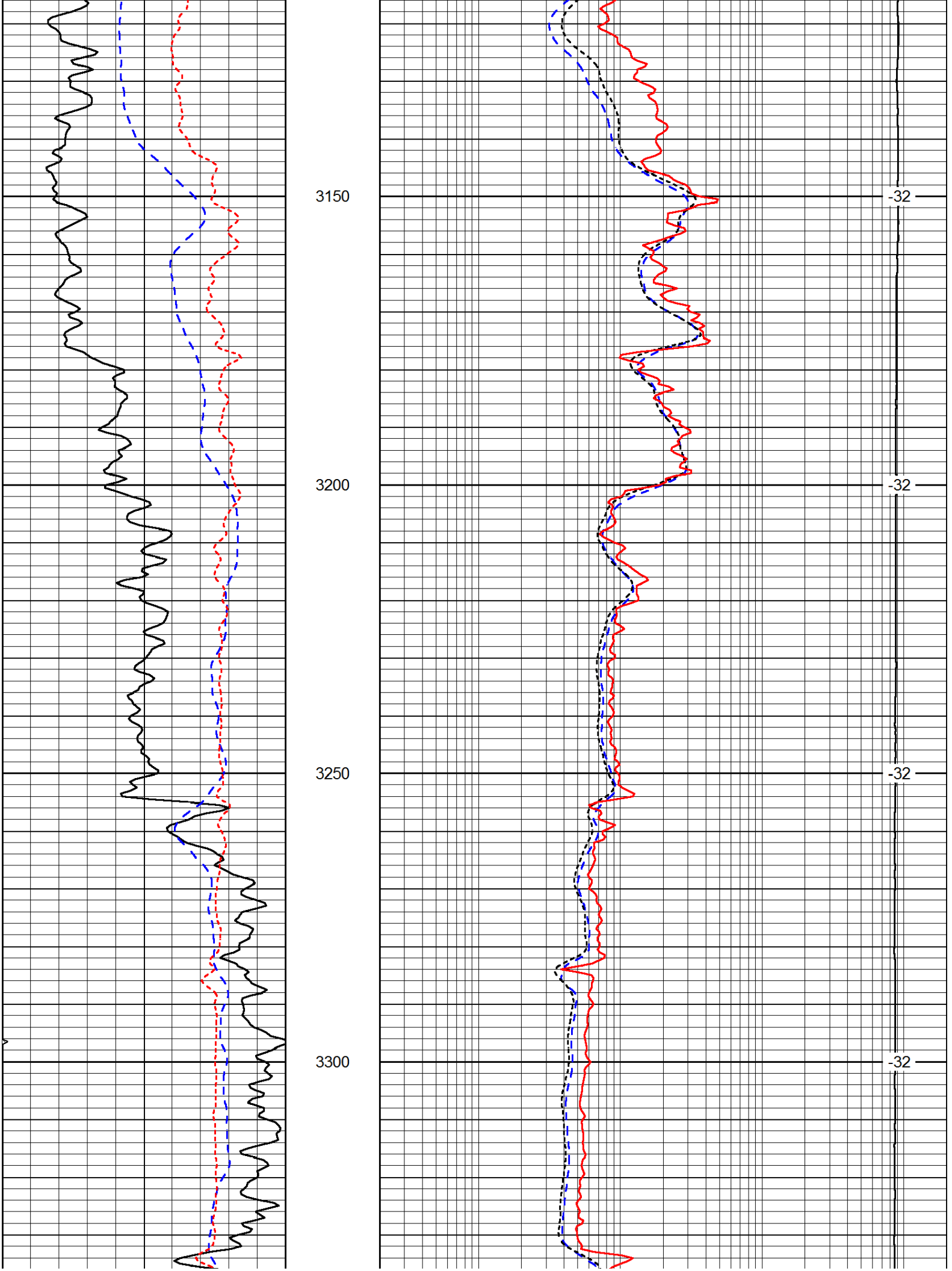

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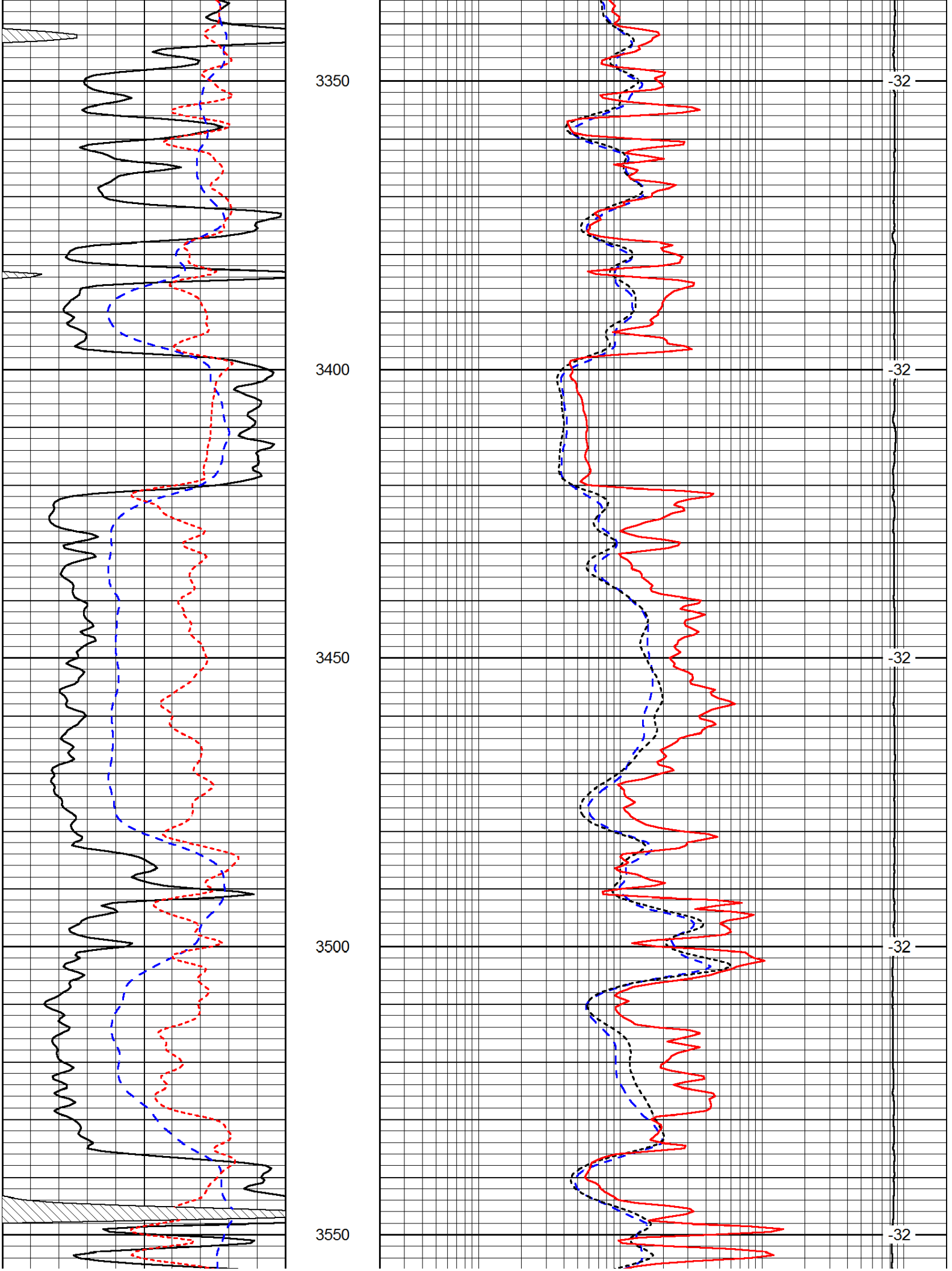

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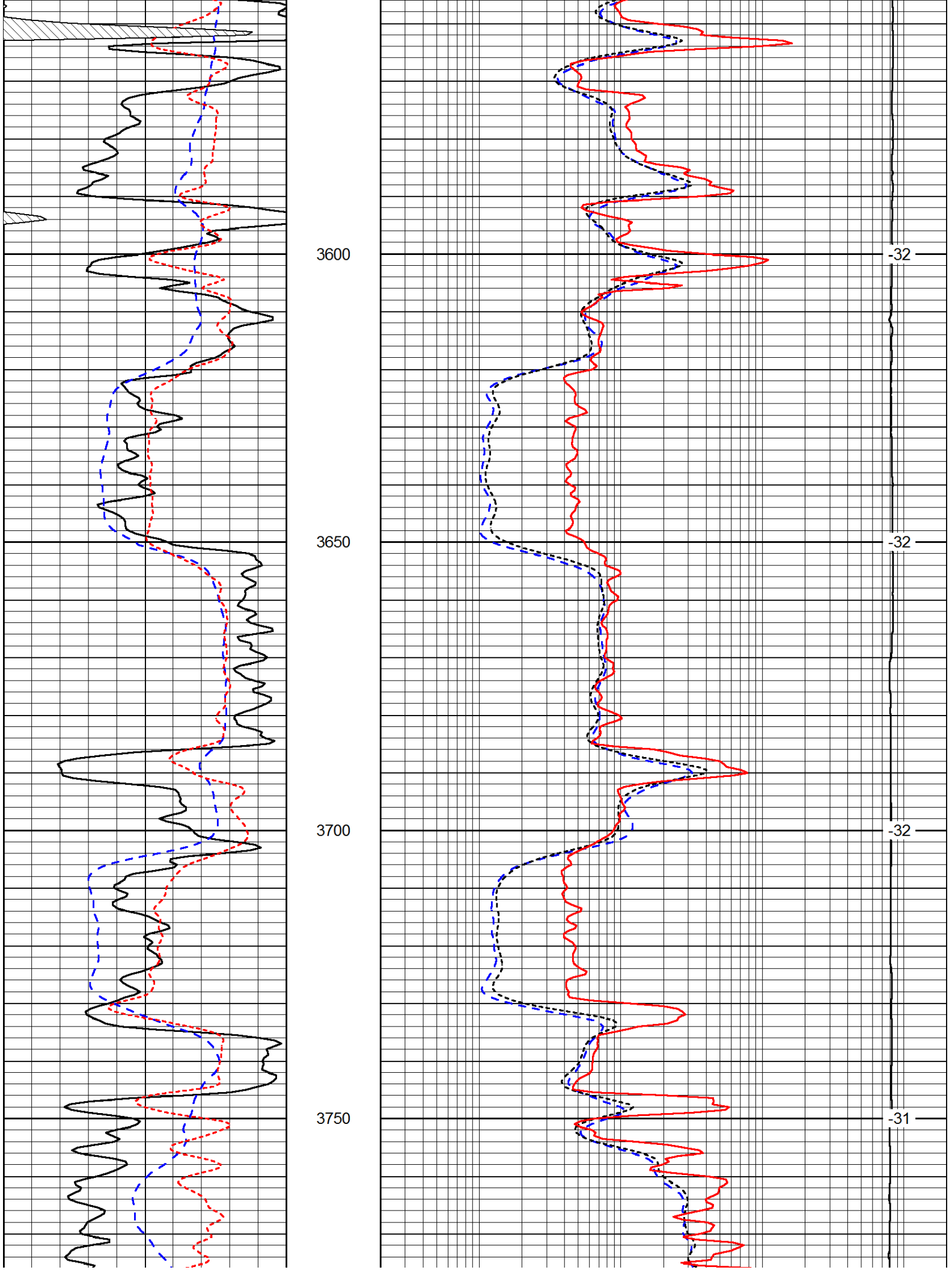


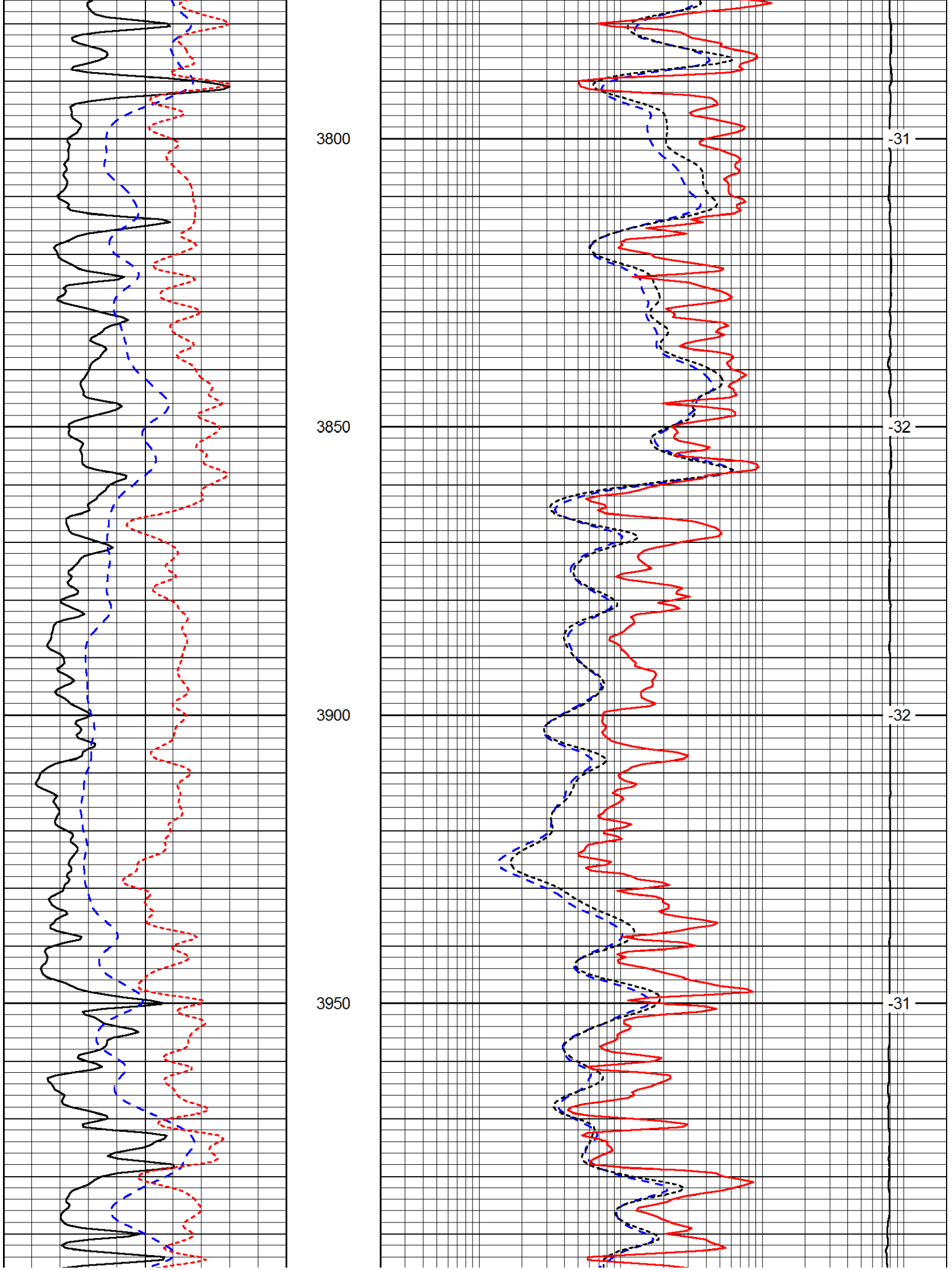
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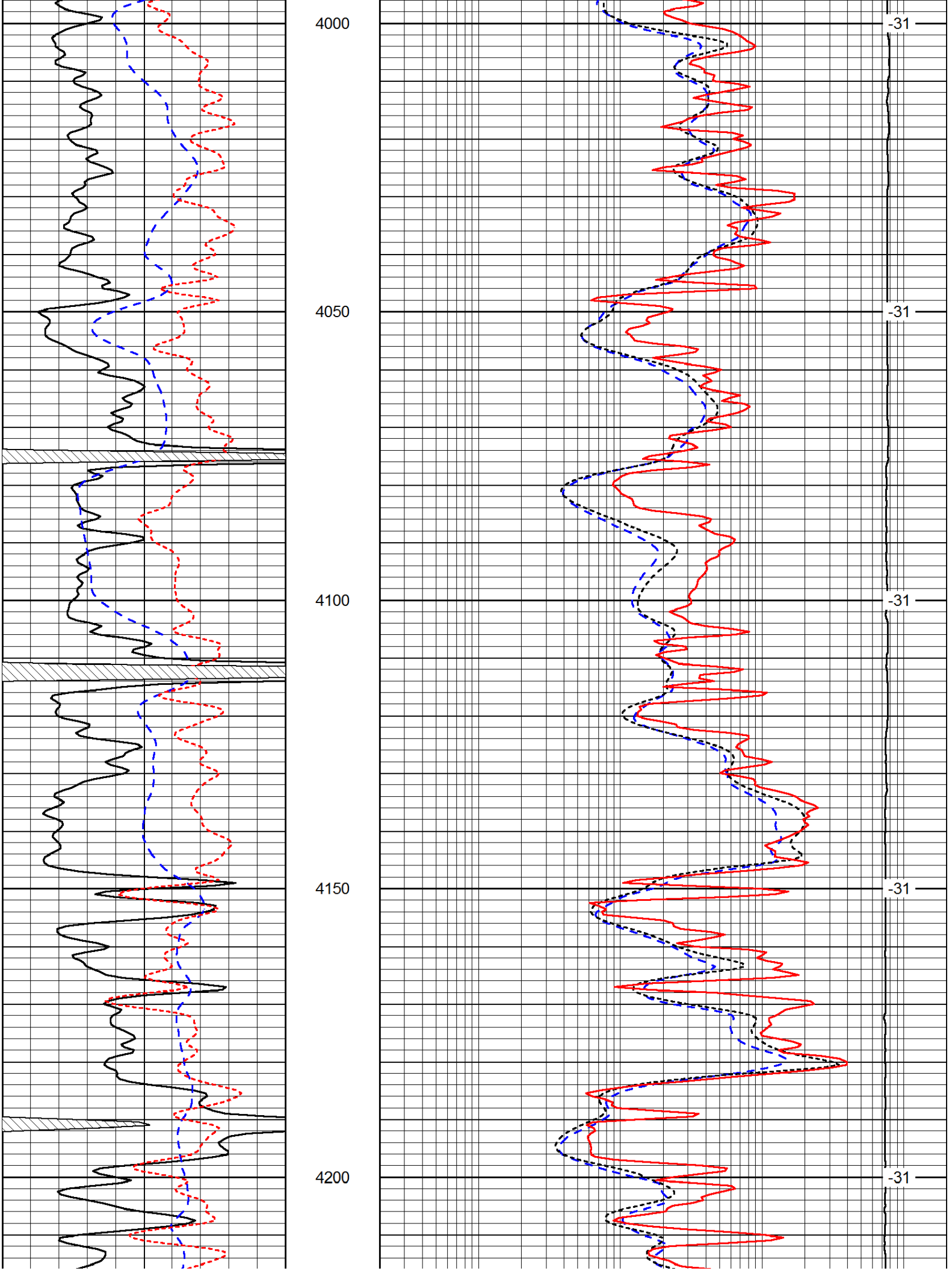


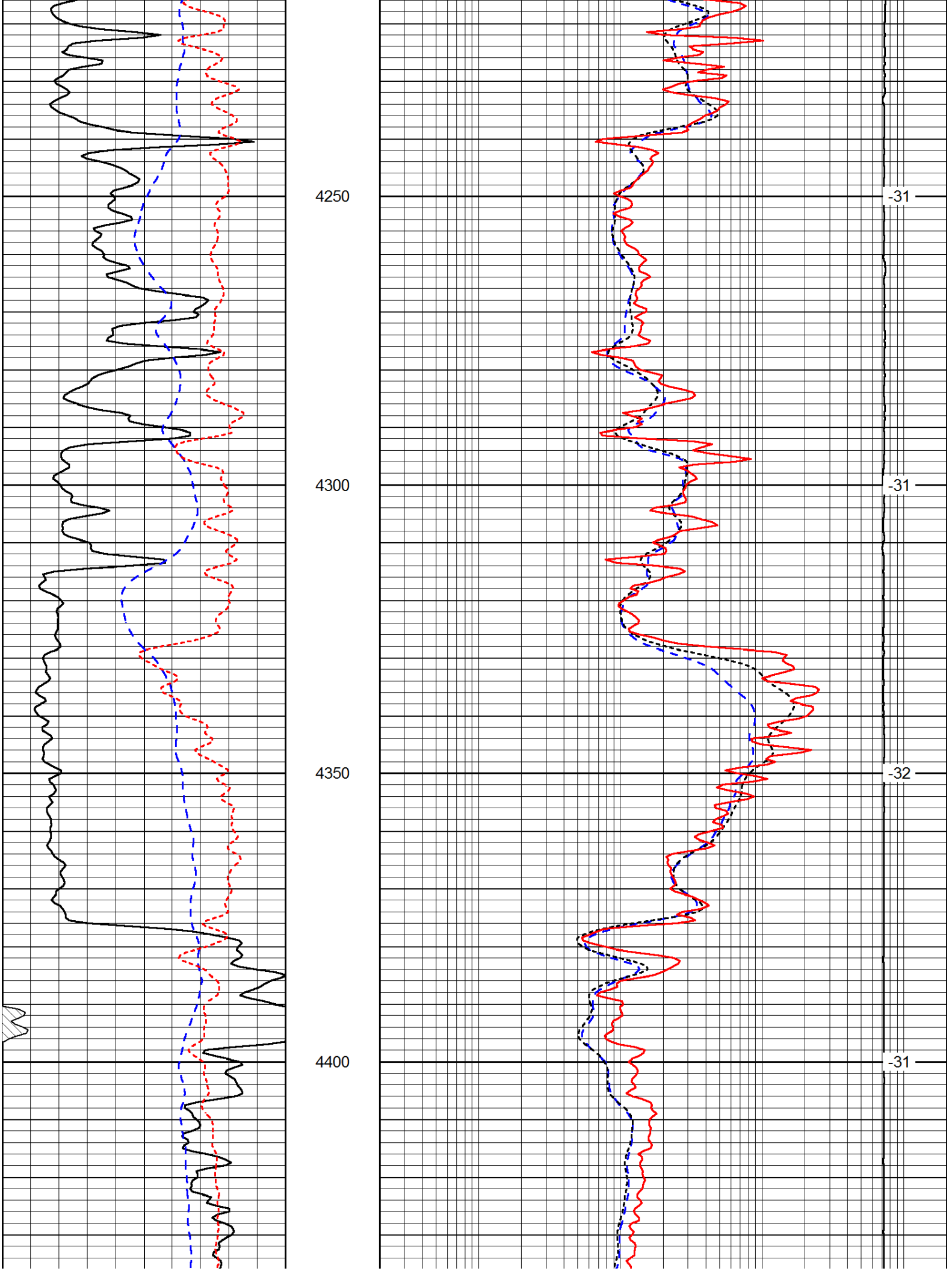

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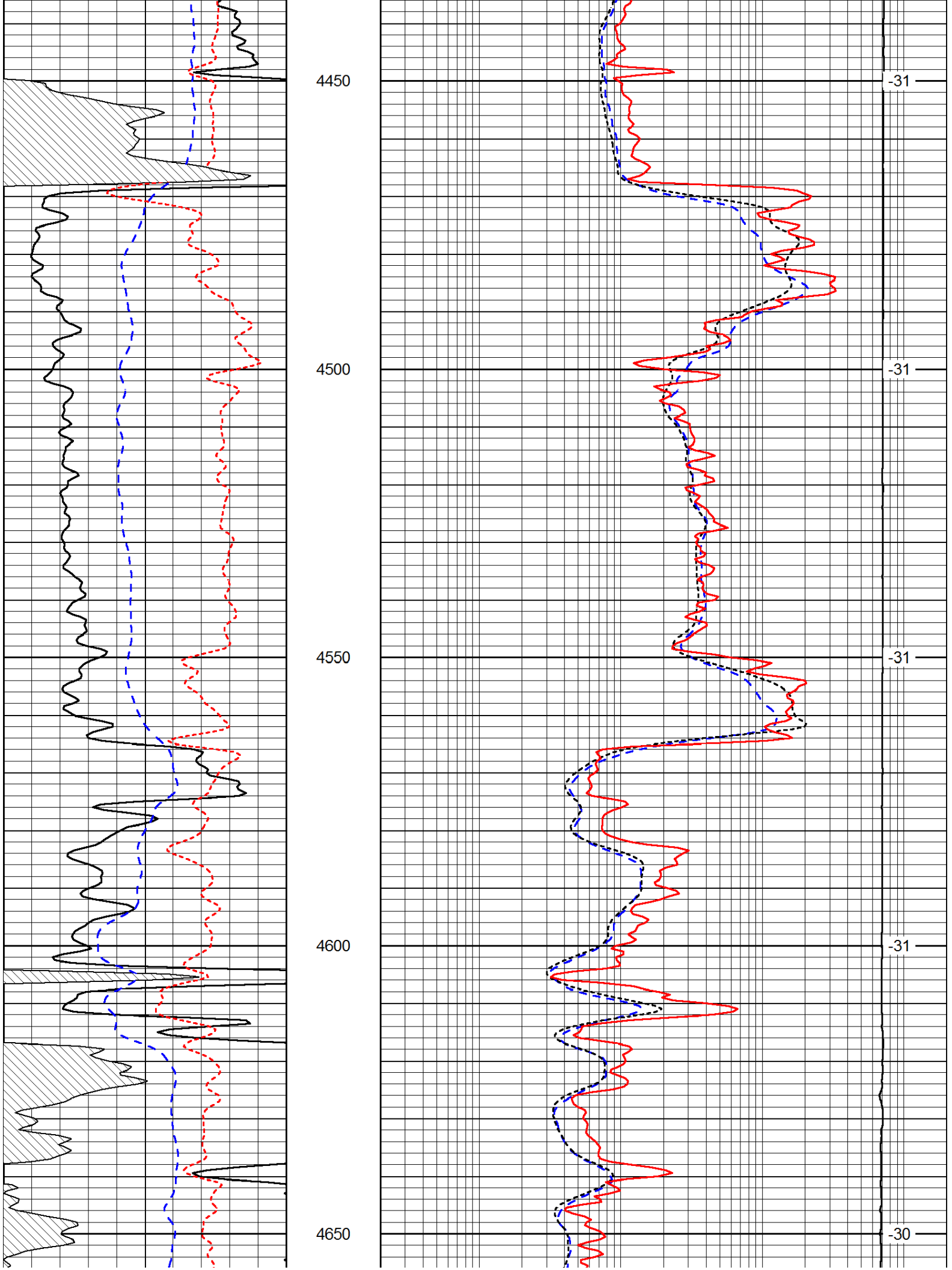

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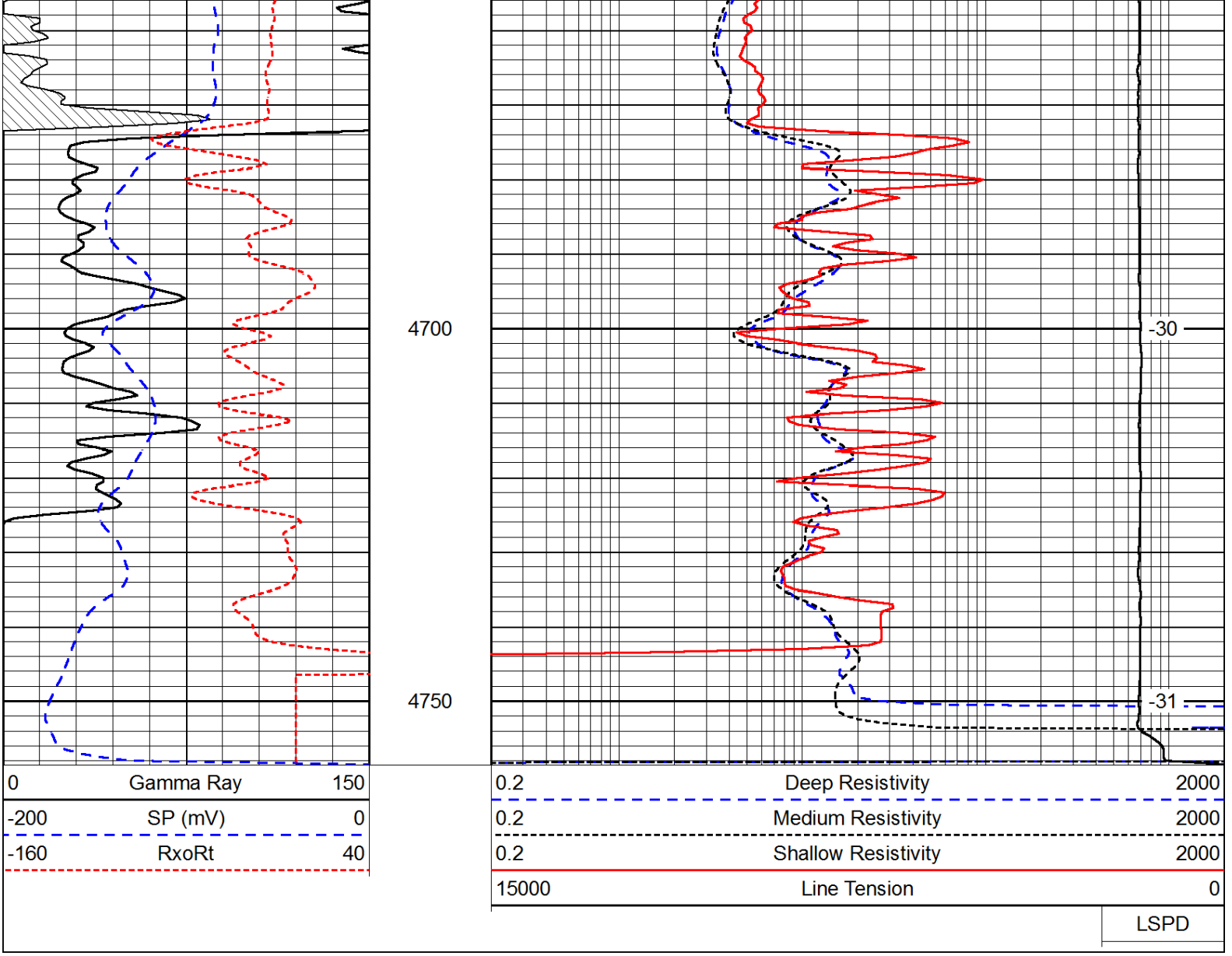

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SP (mV)
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0.2
Medium Resistivity
2000
0.2
Shallow Resistivity
2000
15000
Line Tension
0
LSPD