PIONEER

Pioneer Energy Services

Dual Induction Log

API No. 15-151-22,439-00-00

Company Timberline Oil & Gas Corporation

Well Harrel No.10

Field Iuka-Carmi

County Pratt State Kansas

Location 2336' FSL & 757' FEL

Sec: 36 Twp: 26S Rge: 13W

Other Services
CNL/CDL
MEL

Elevation
K.B. 1929
D.F.
G.L. 1919

Permanent Datum	Ground Level	Elevation 1919	
Log Measured From	Kelly Bushing	10 Ft. Above Perm. Datum	
Drilling Measured From	Kelly Bushing		
Date	9/30/2014		
Run Number	One		
Depth Driller	4309		
Depth Logger	4314		
Bottom Logged Interval	4313		
Top Log Interval	300		
Casing Driller	8.625 @ 324		
Casing Logger	323		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity,ppm CL	6,000		
Density / Viscosity	9.4 | 42		
pH / Fluid Loss	10.5 | 8.8		
Source of Sample	Flowline		
Rm @ Meas. Temp	.55 @ 71		
Rmf @ Meas. Temp	.41 @ 71		
Rmc @ Meas. Temp	.74 @ 71		
Source of Rmf / Rmc	Charts		
Rm @ BHT	.33 @ 119		
Operating Rig Time	4 Hours		
Max. Rec. Temp. F	119		
Equipment Number	10		
Location	Hays		
Recorded By	C. Desaire		
Witnessed By	Scott Alberg		

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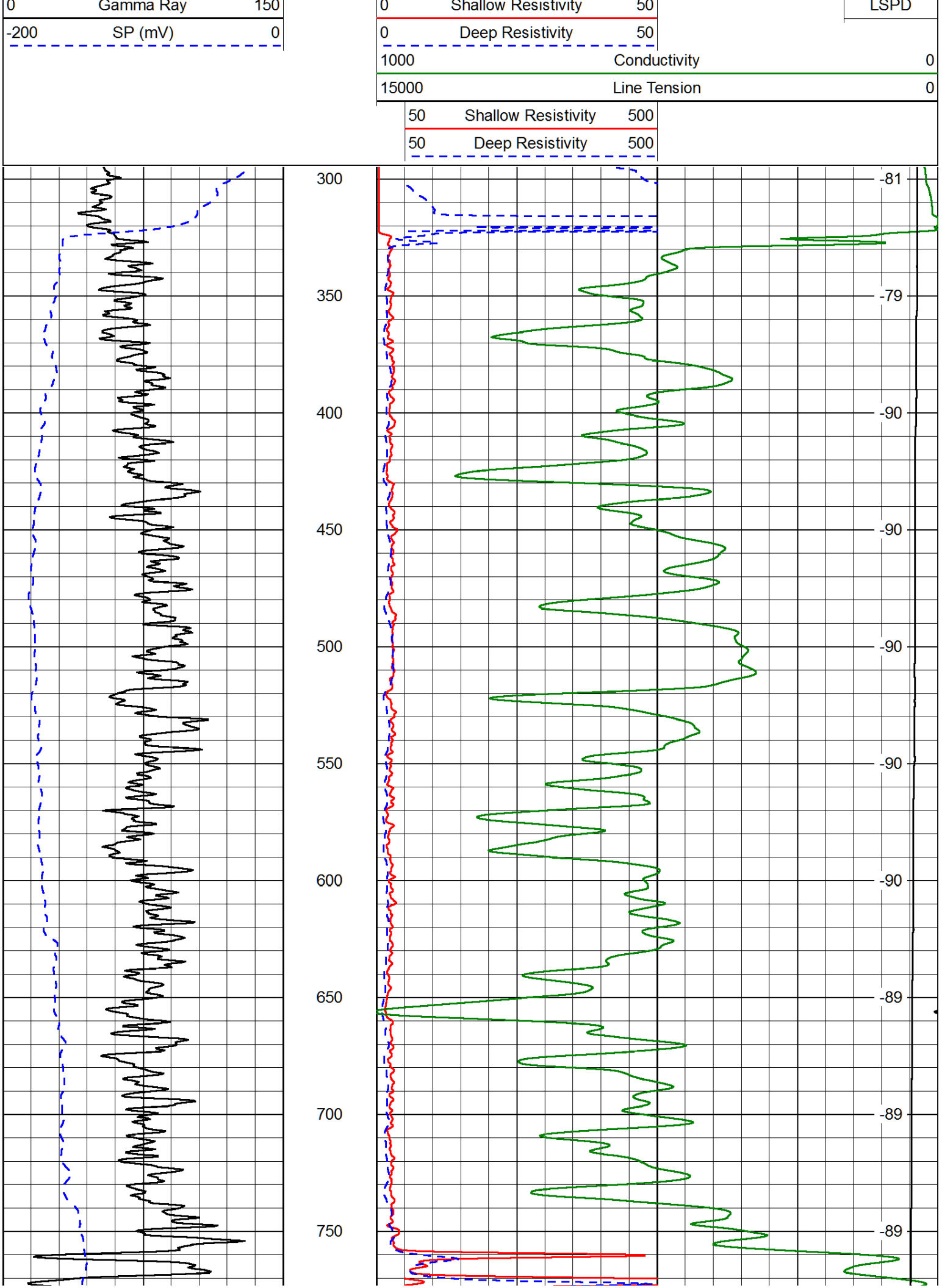
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

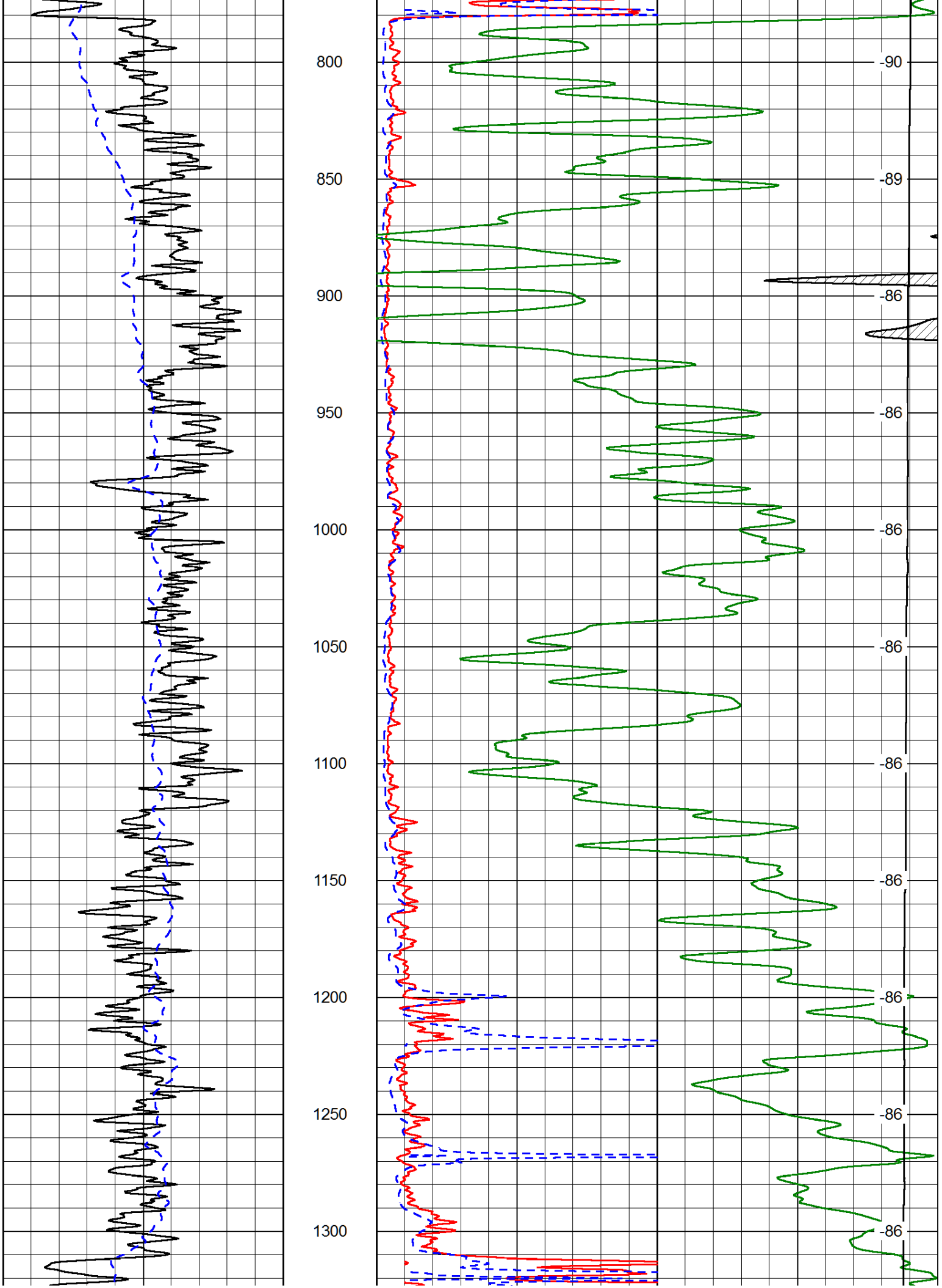
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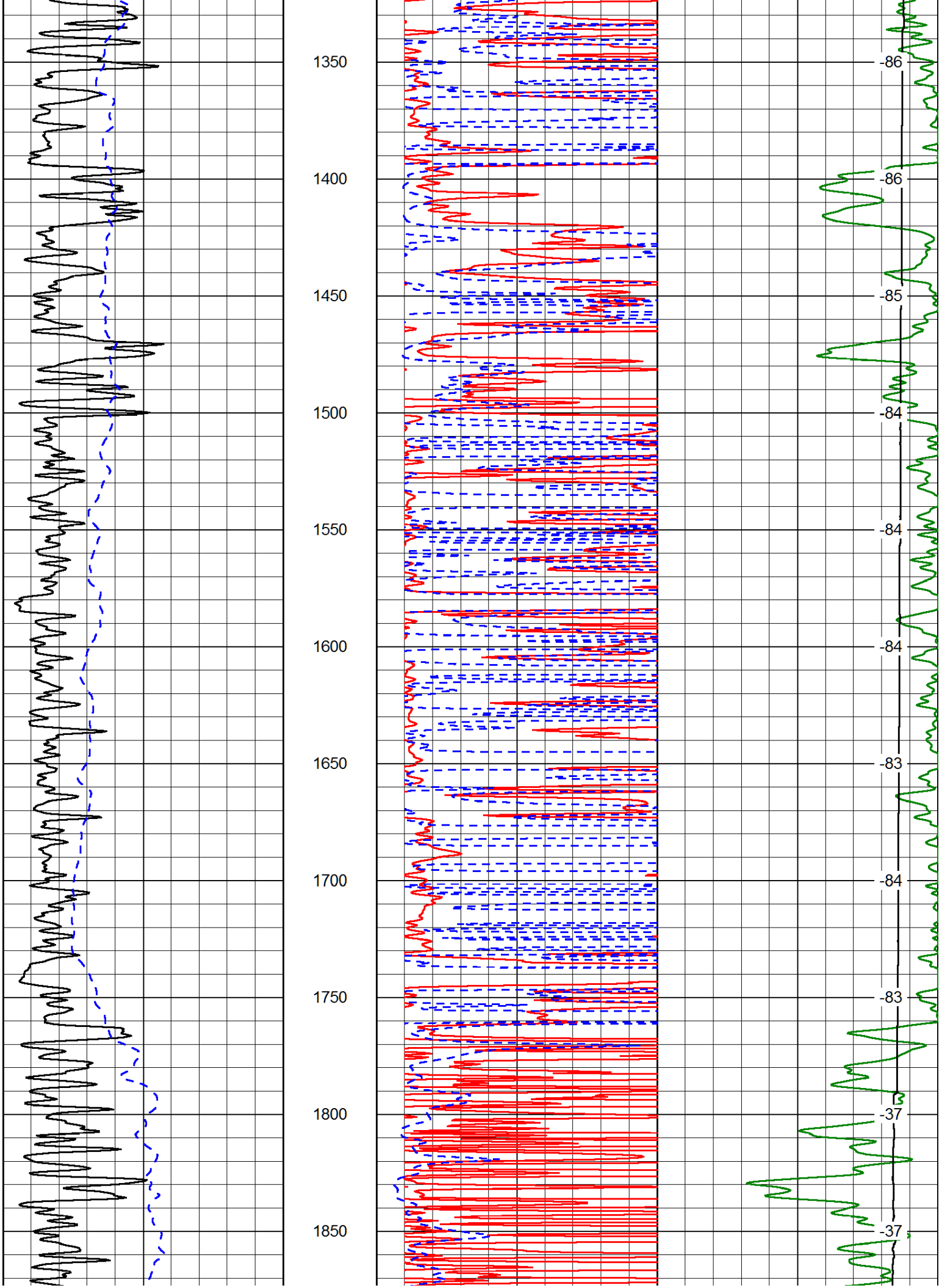
Thank you for using Log-Tech, Inc.
(785) 625-3858

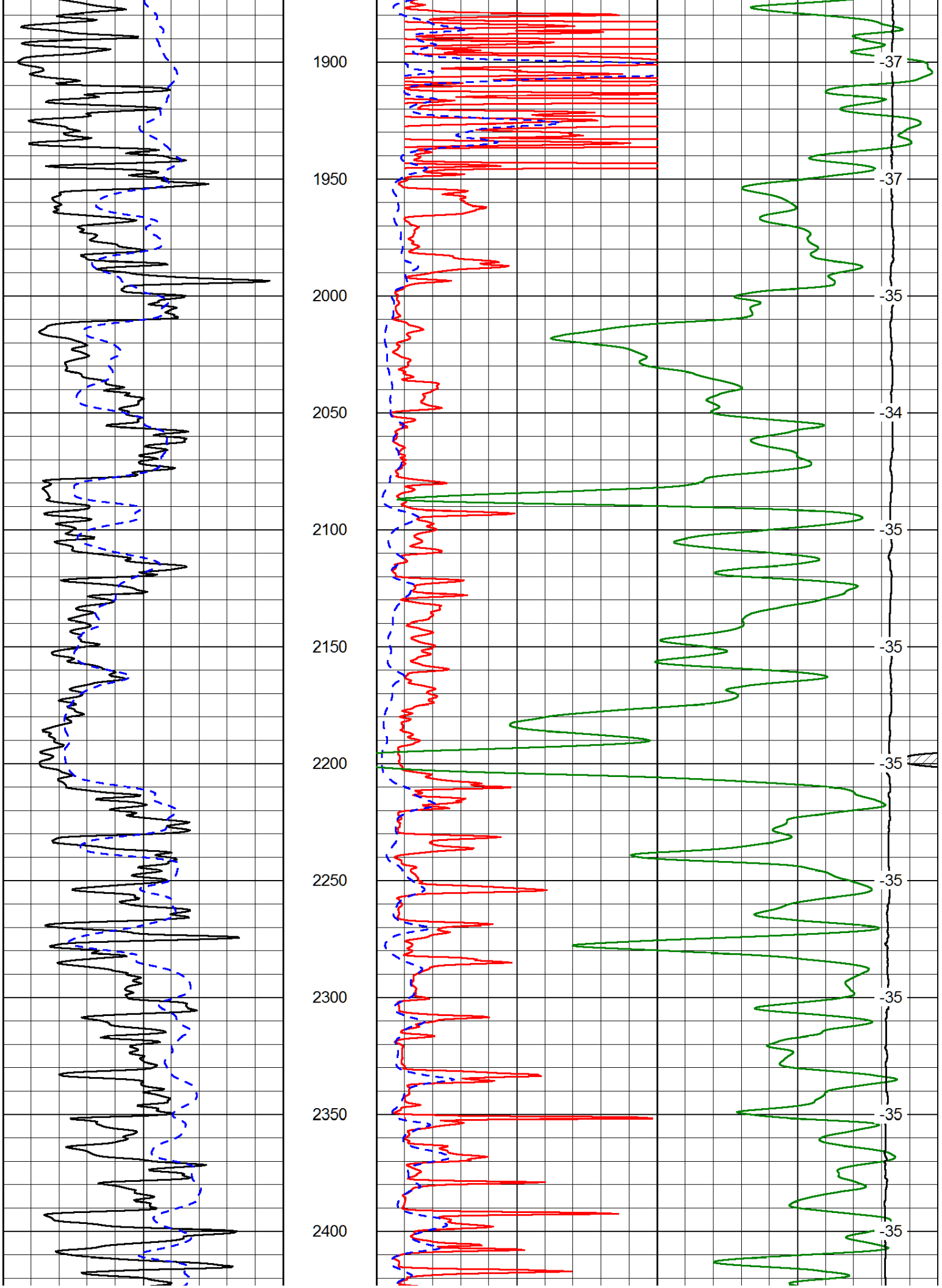
Iuka KS, 1 1/2 N to 70th st,
3 E, 1/2 S, W Into

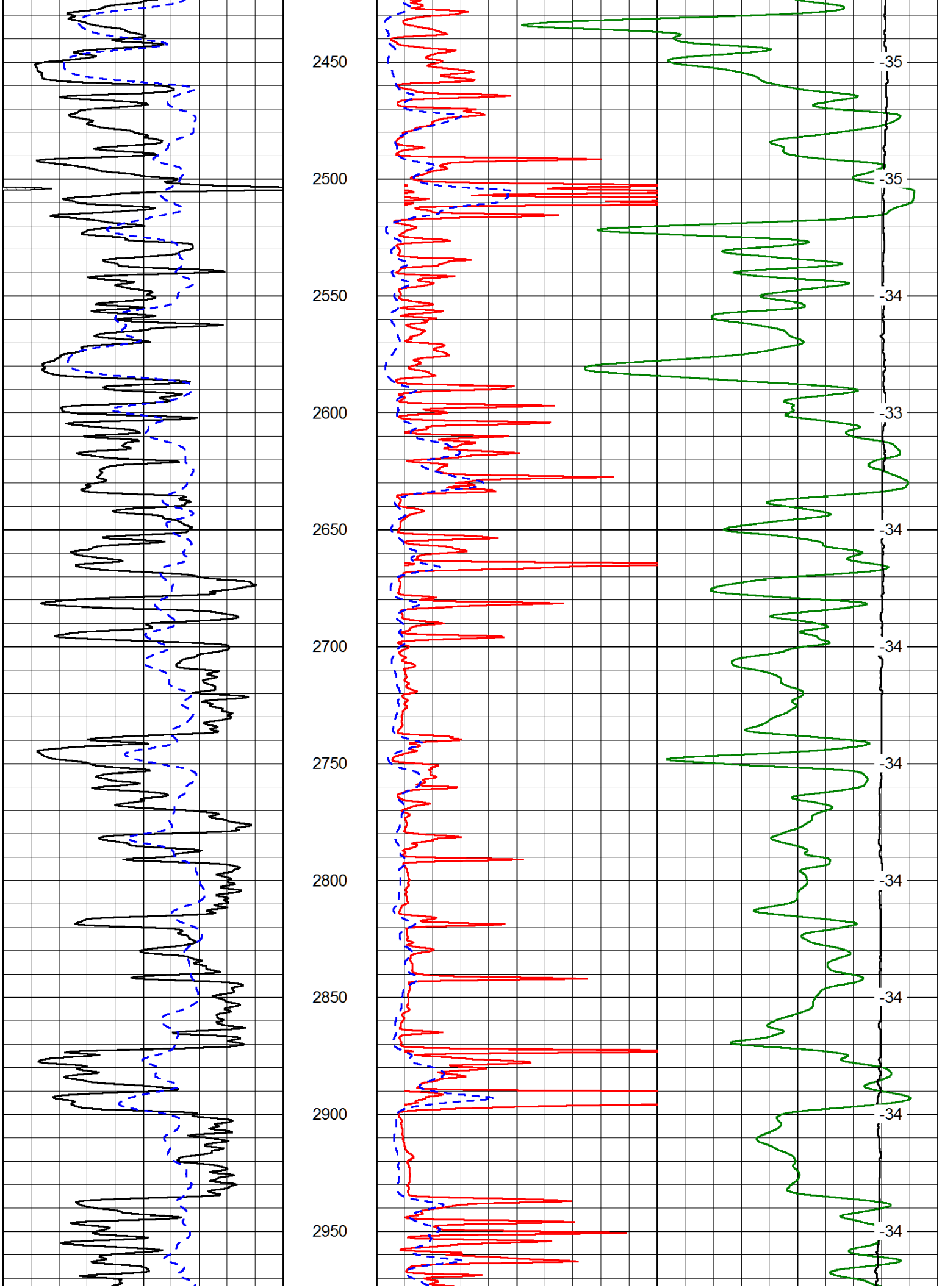
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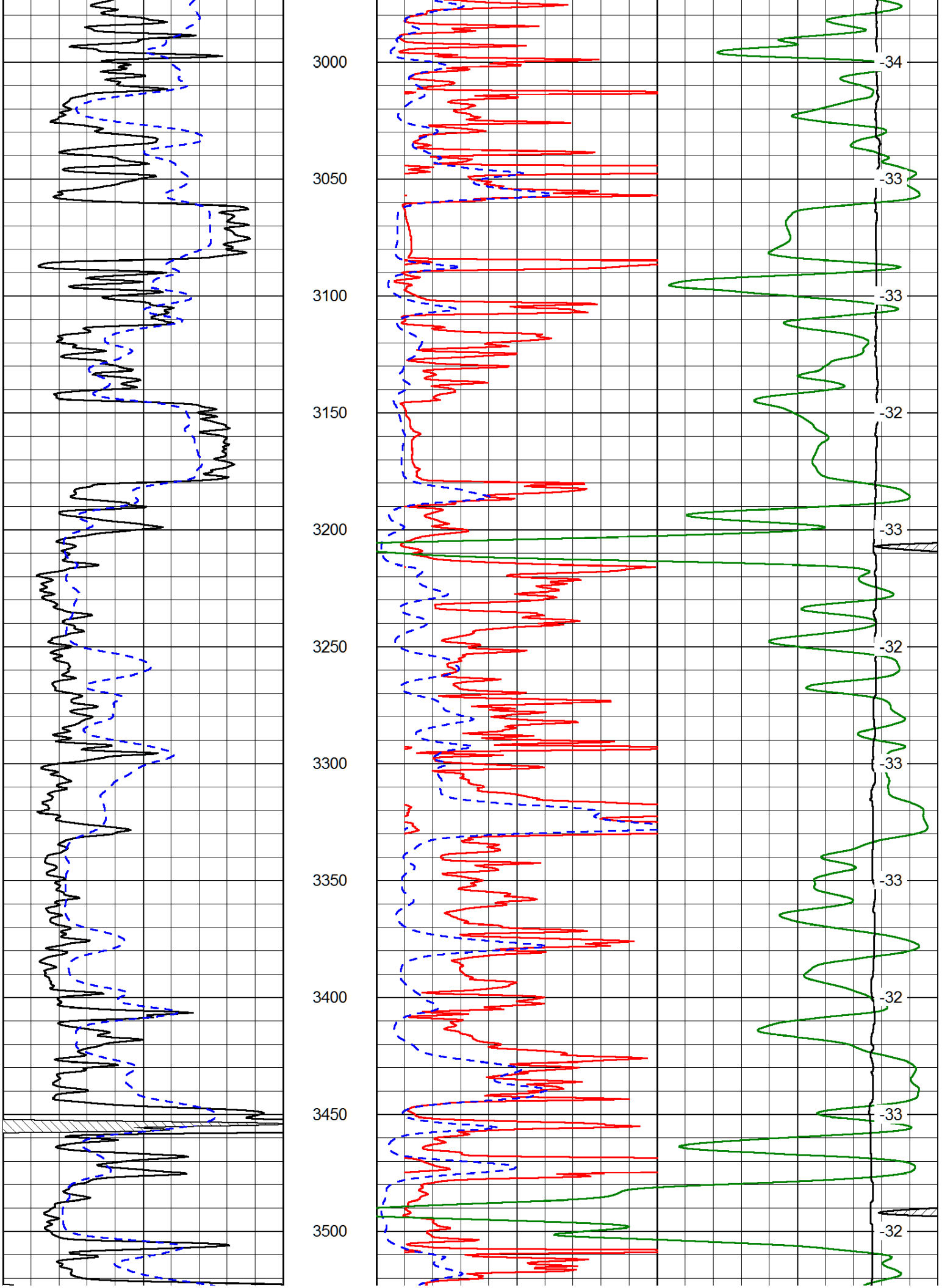

0 Gamma Ray 150
-200 SP (mV) 0
0 Shallow Resistivity 50
0 Deep Resistivity 50
1000 Conductivity 0
15000 Line Tension 0
50 Shallow Resistivity 500
50 Deep Resistivity 500
LSPD
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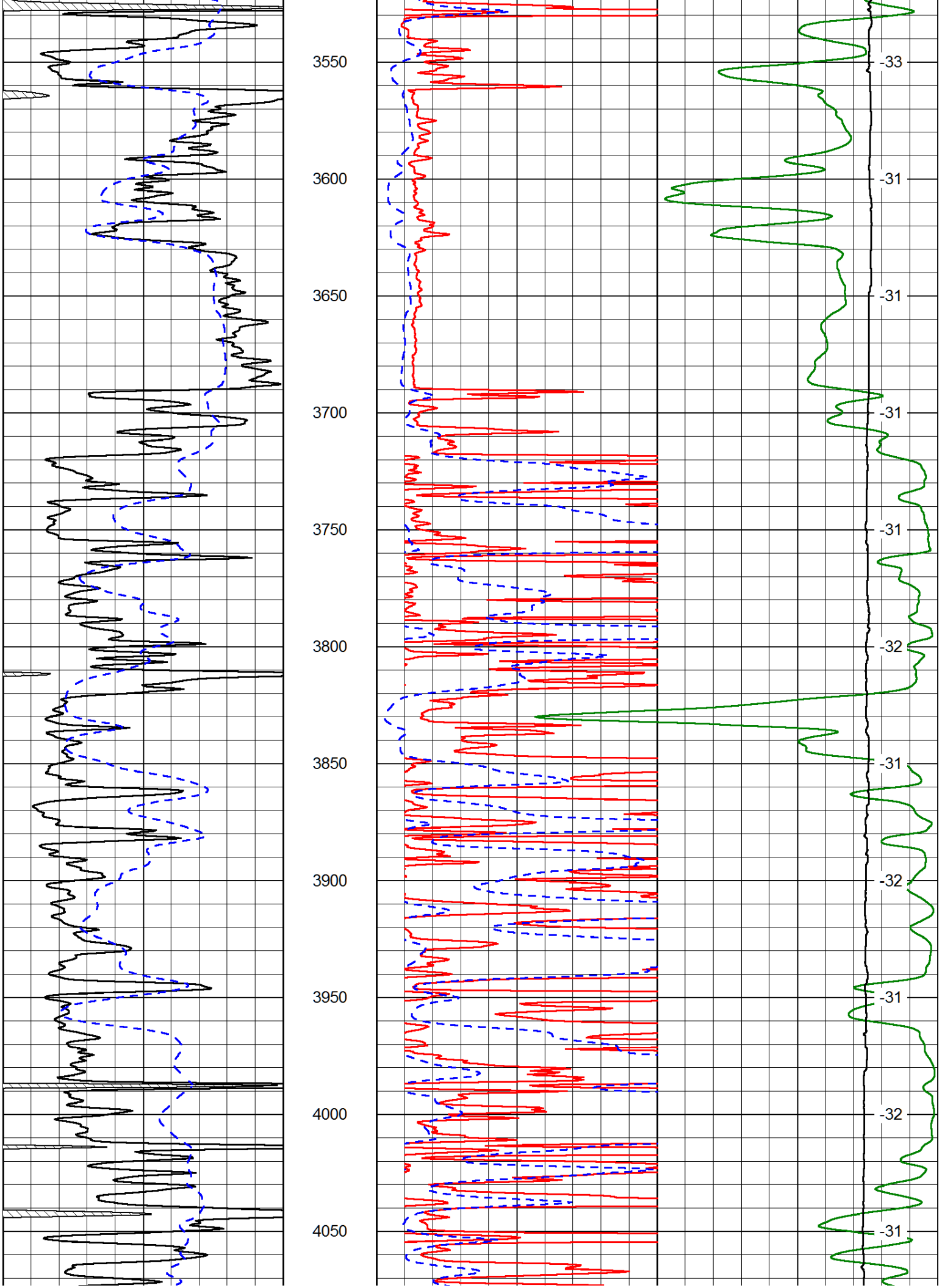

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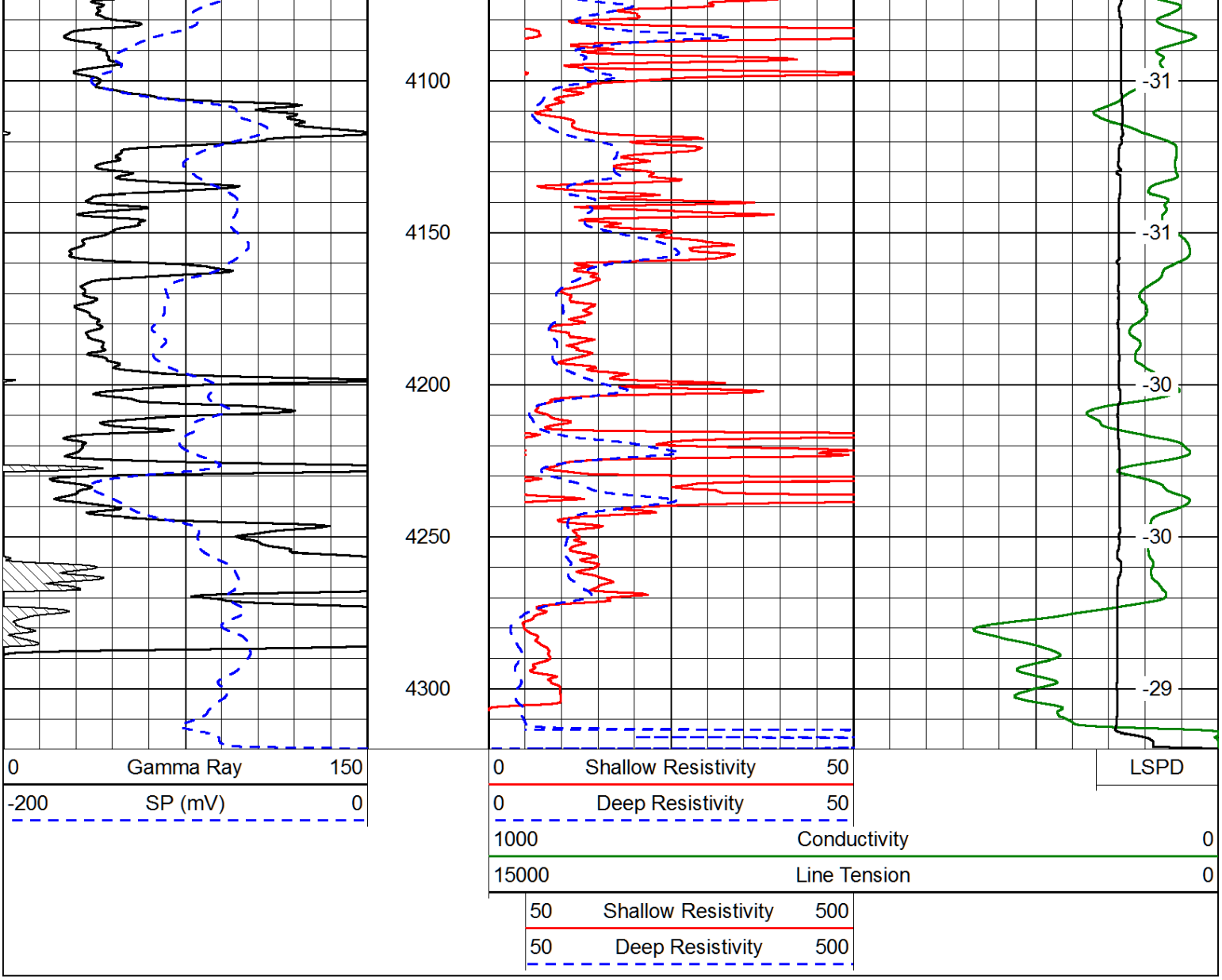

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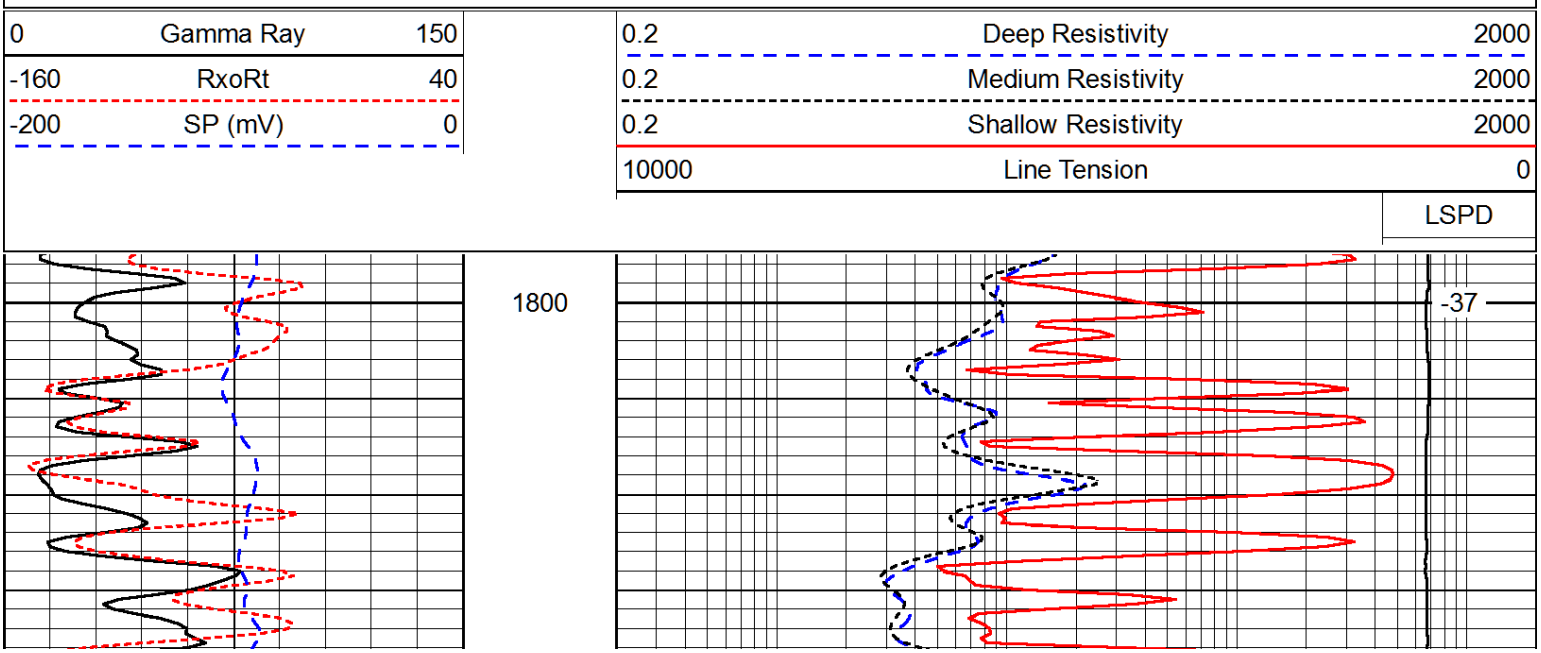

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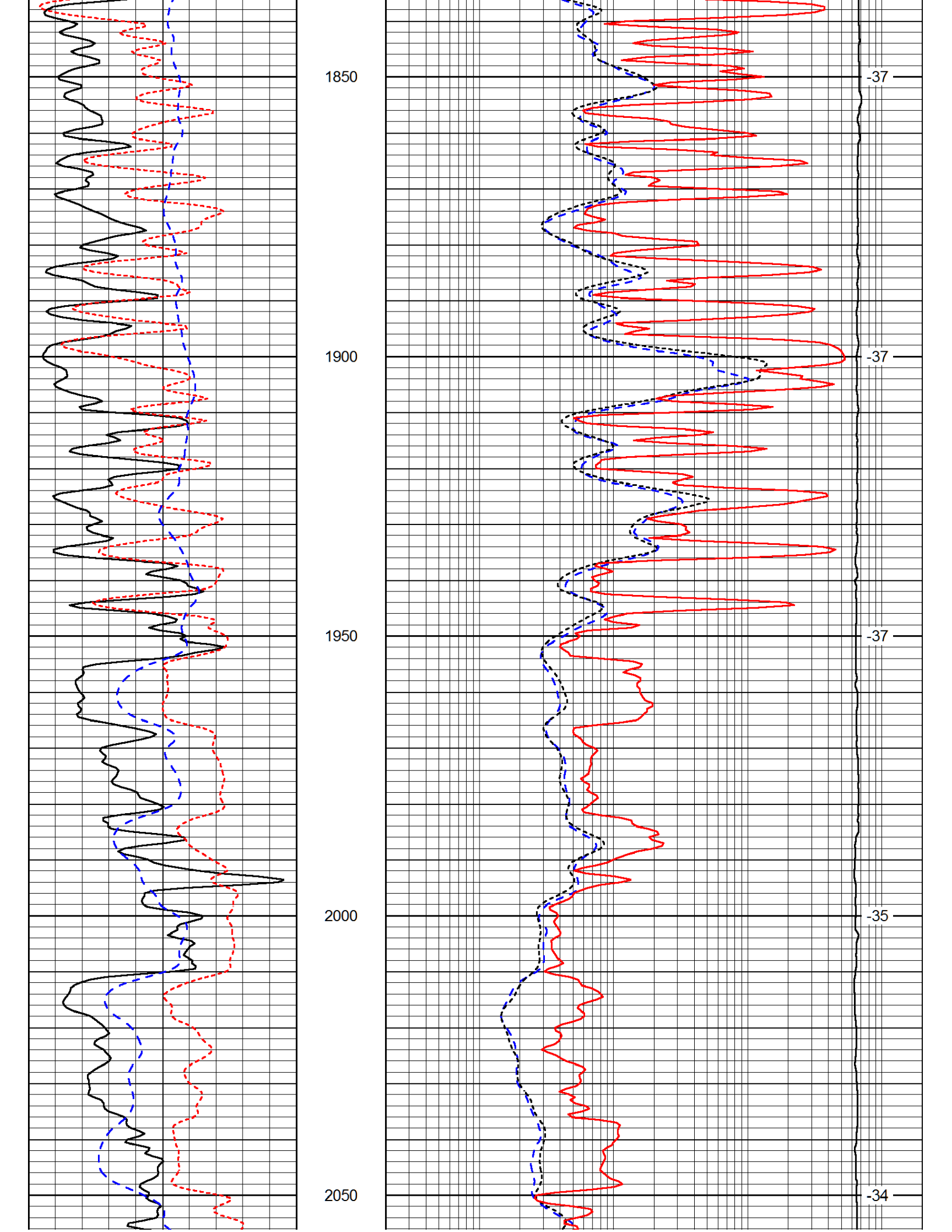

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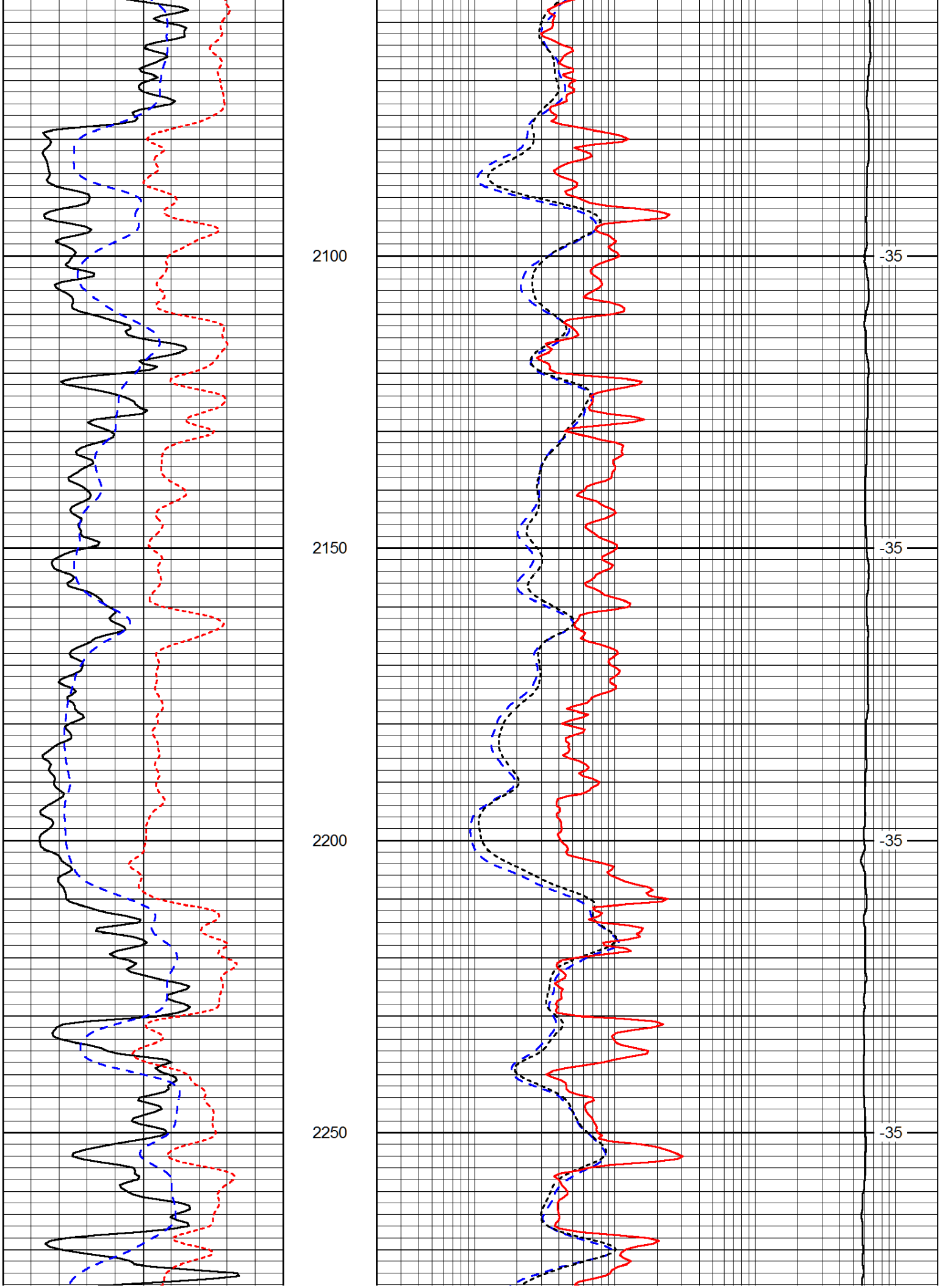

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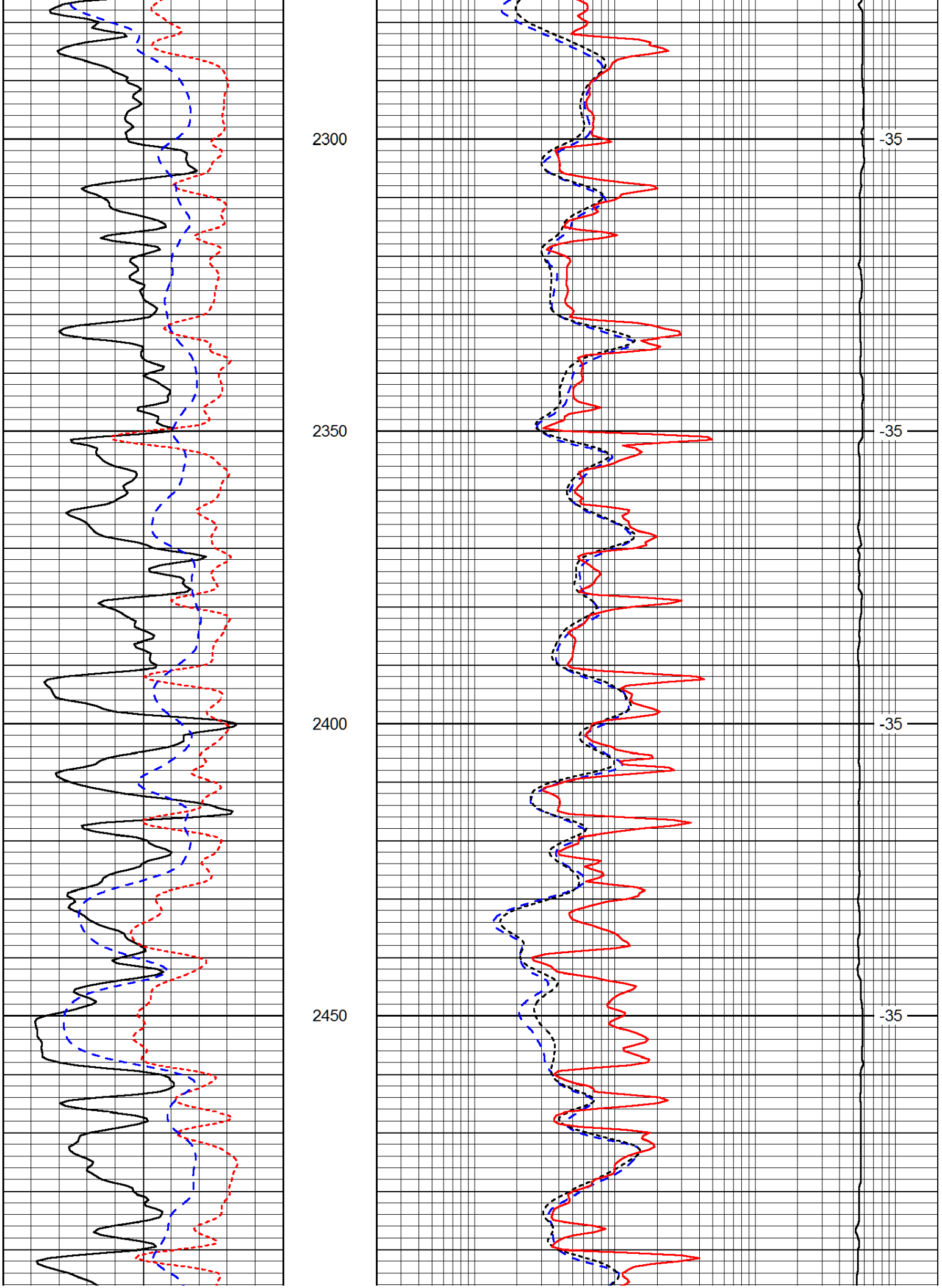


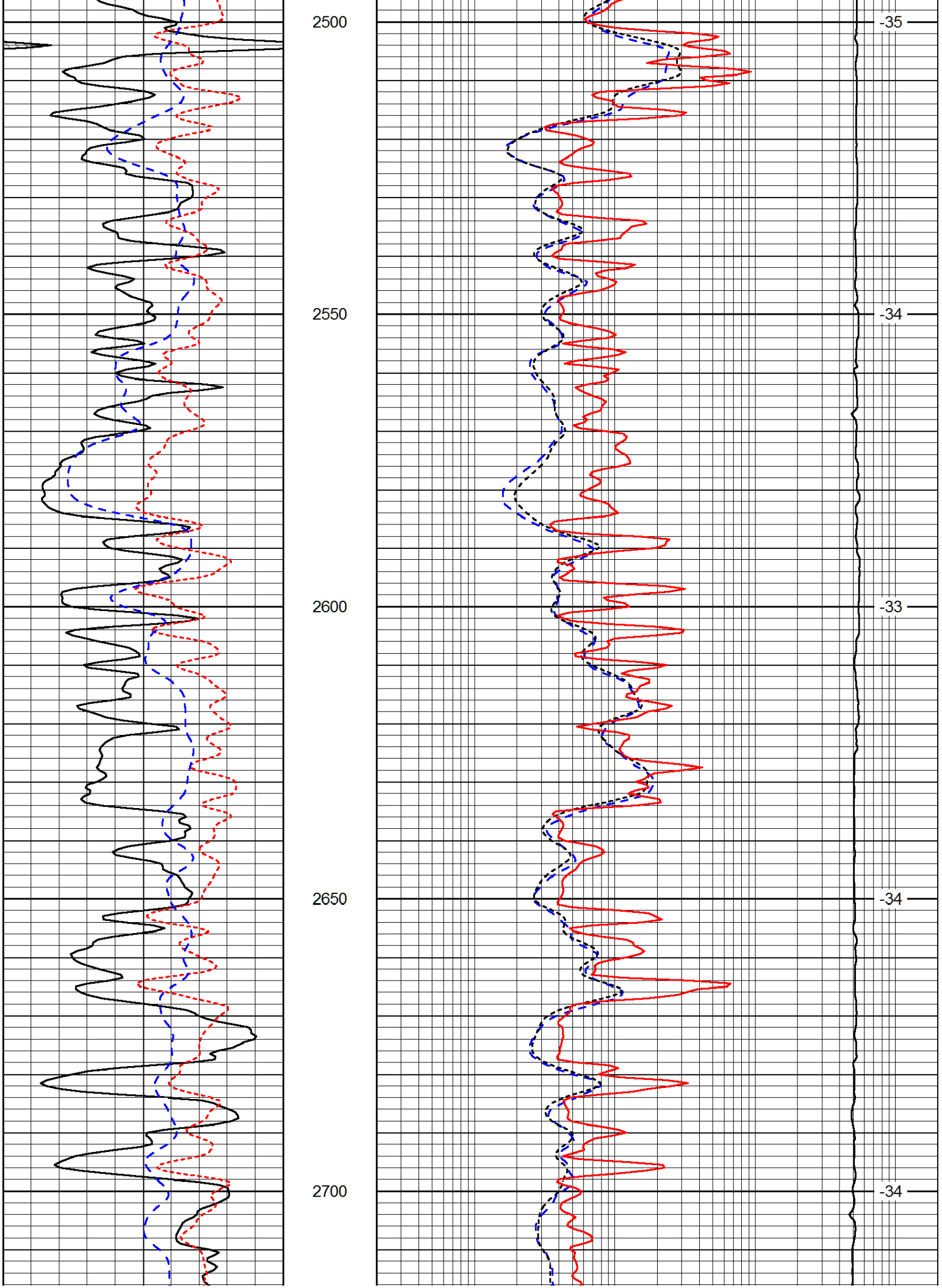
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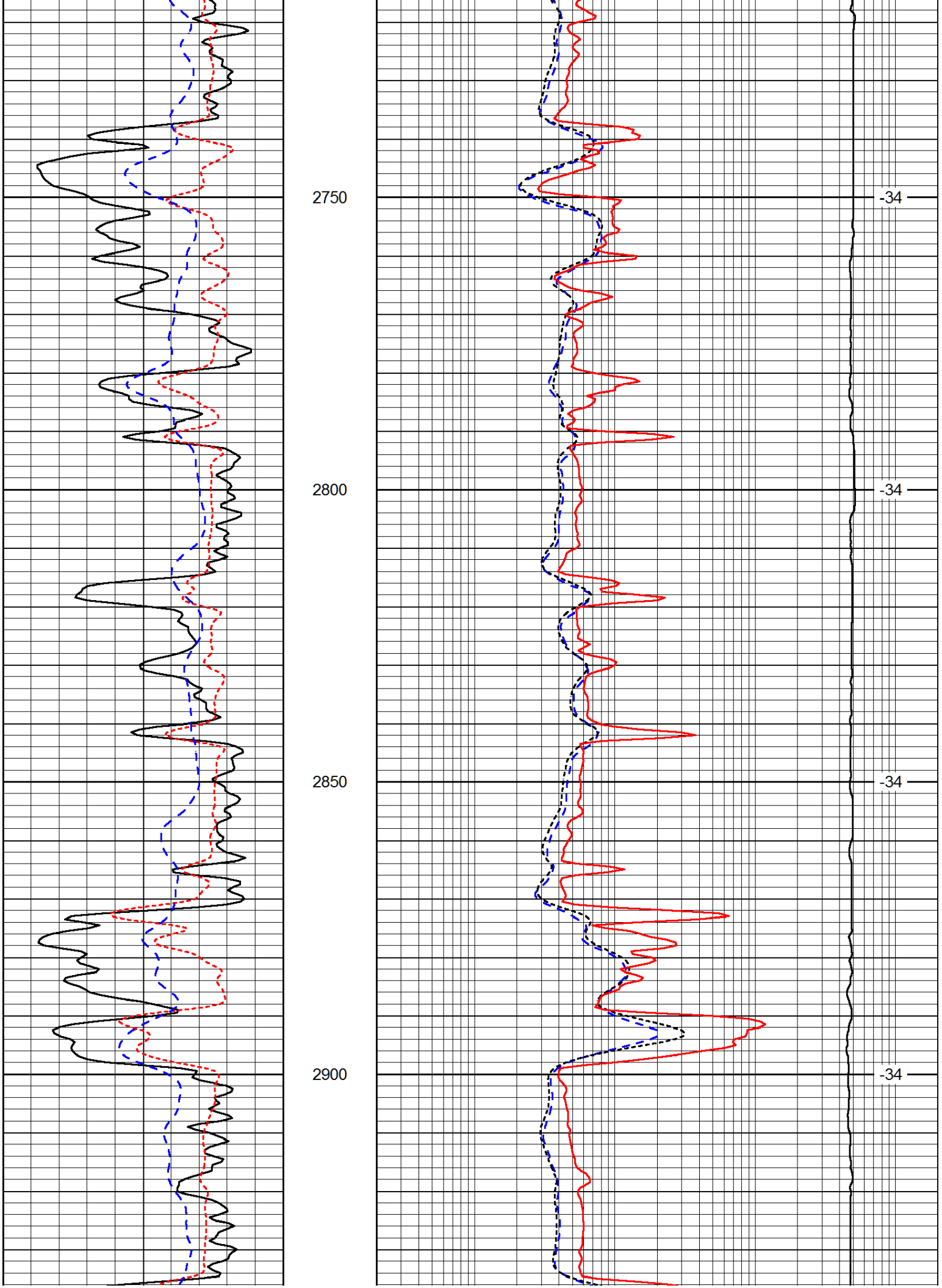


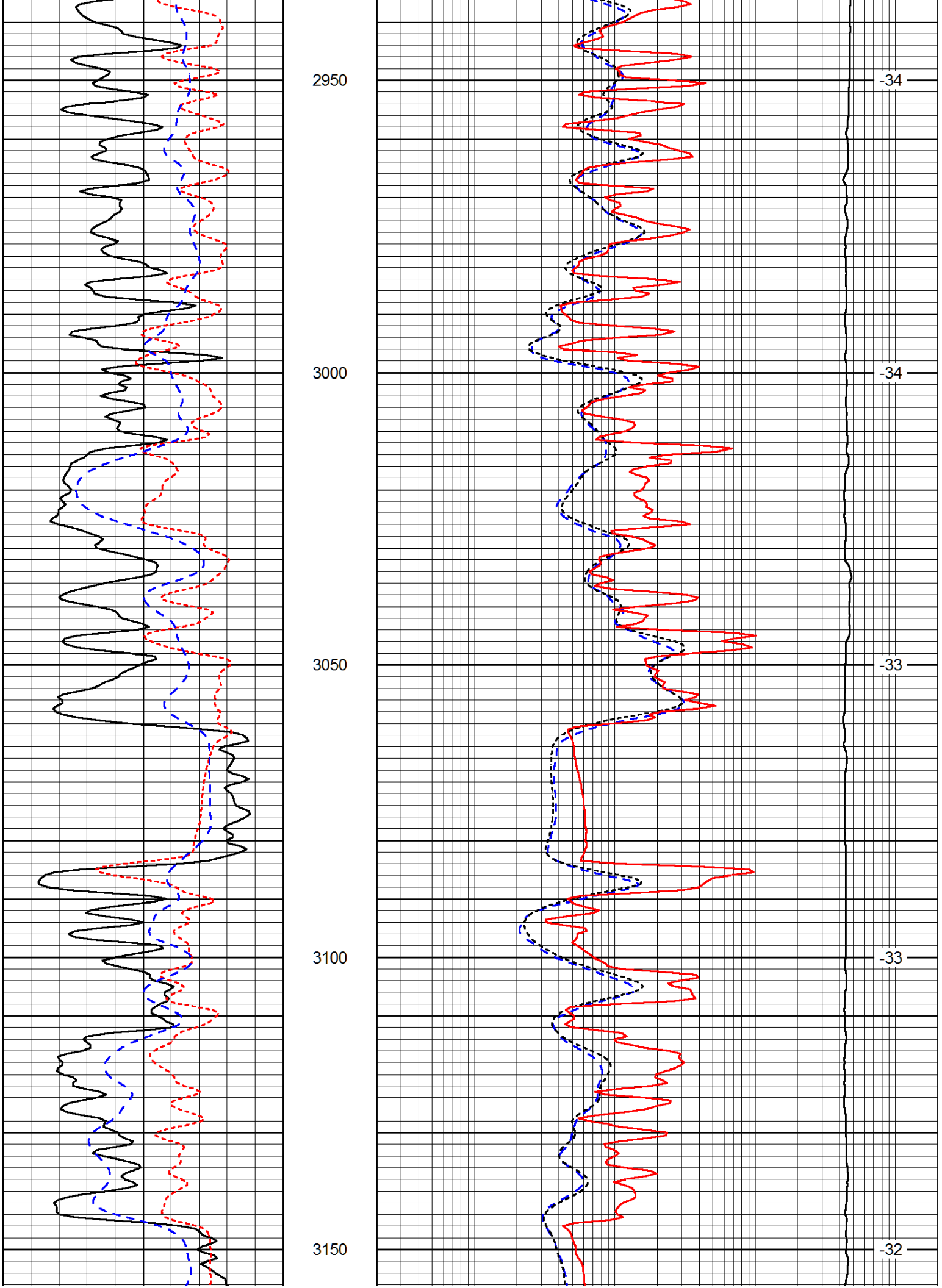

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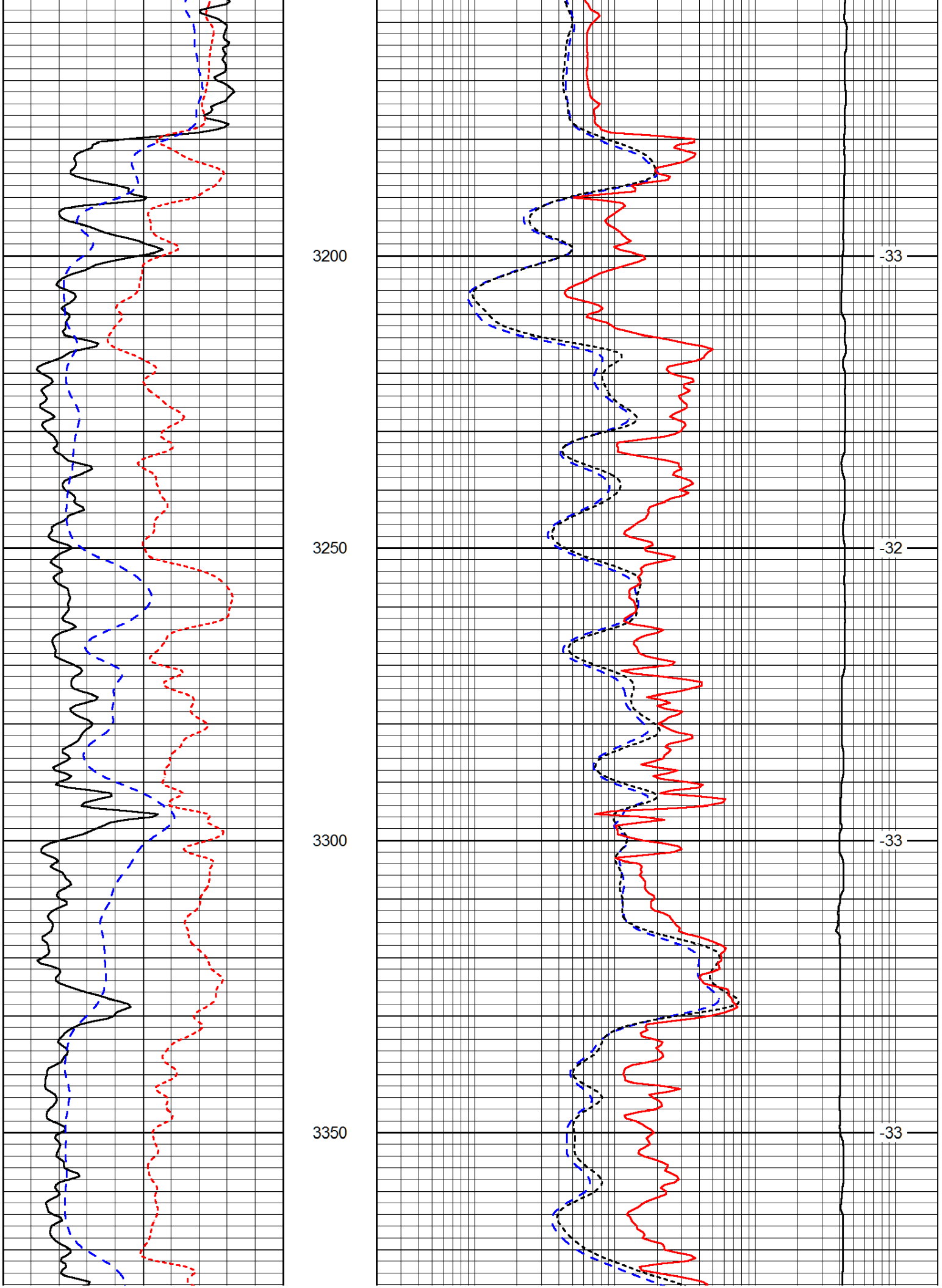

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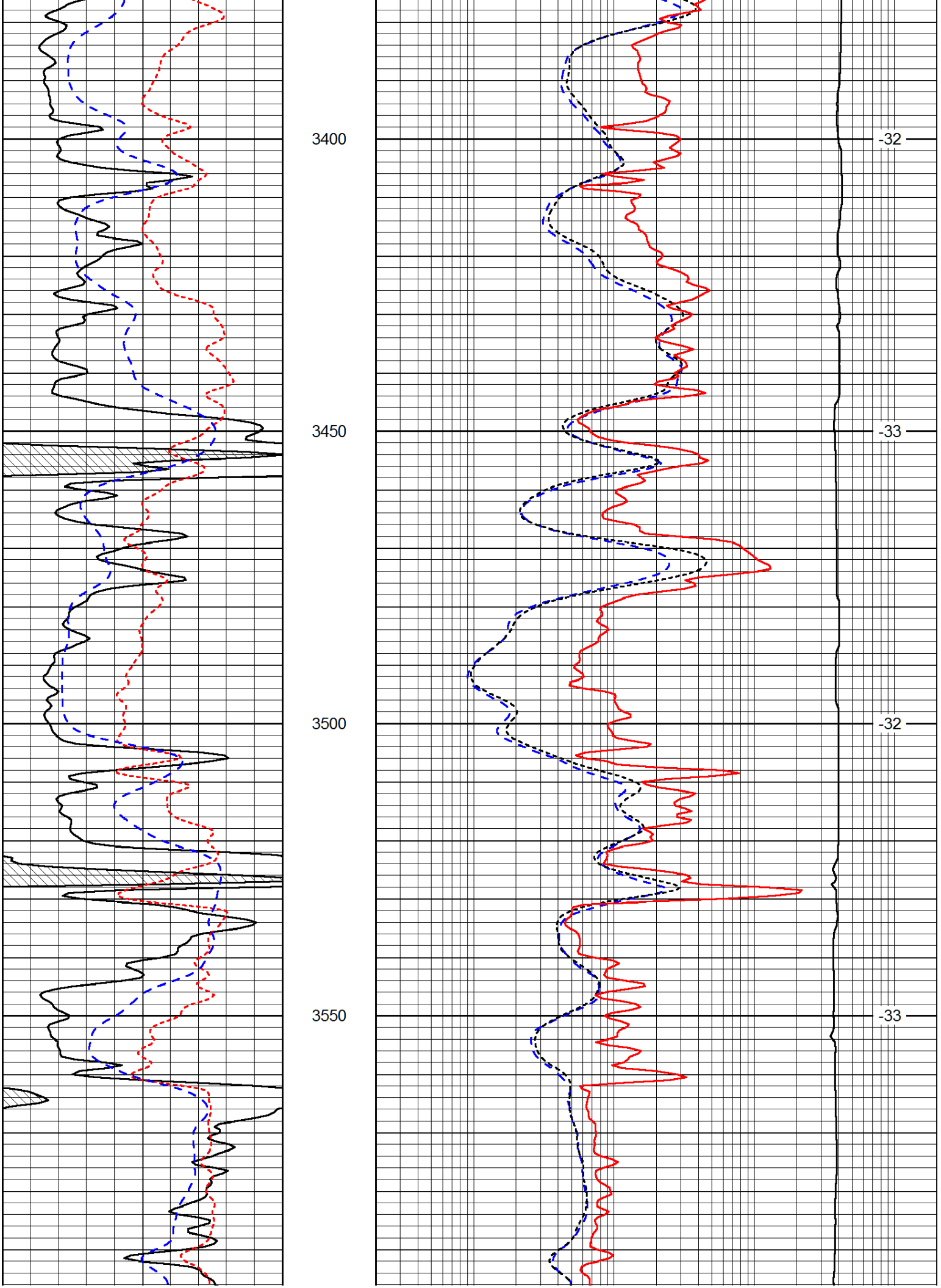

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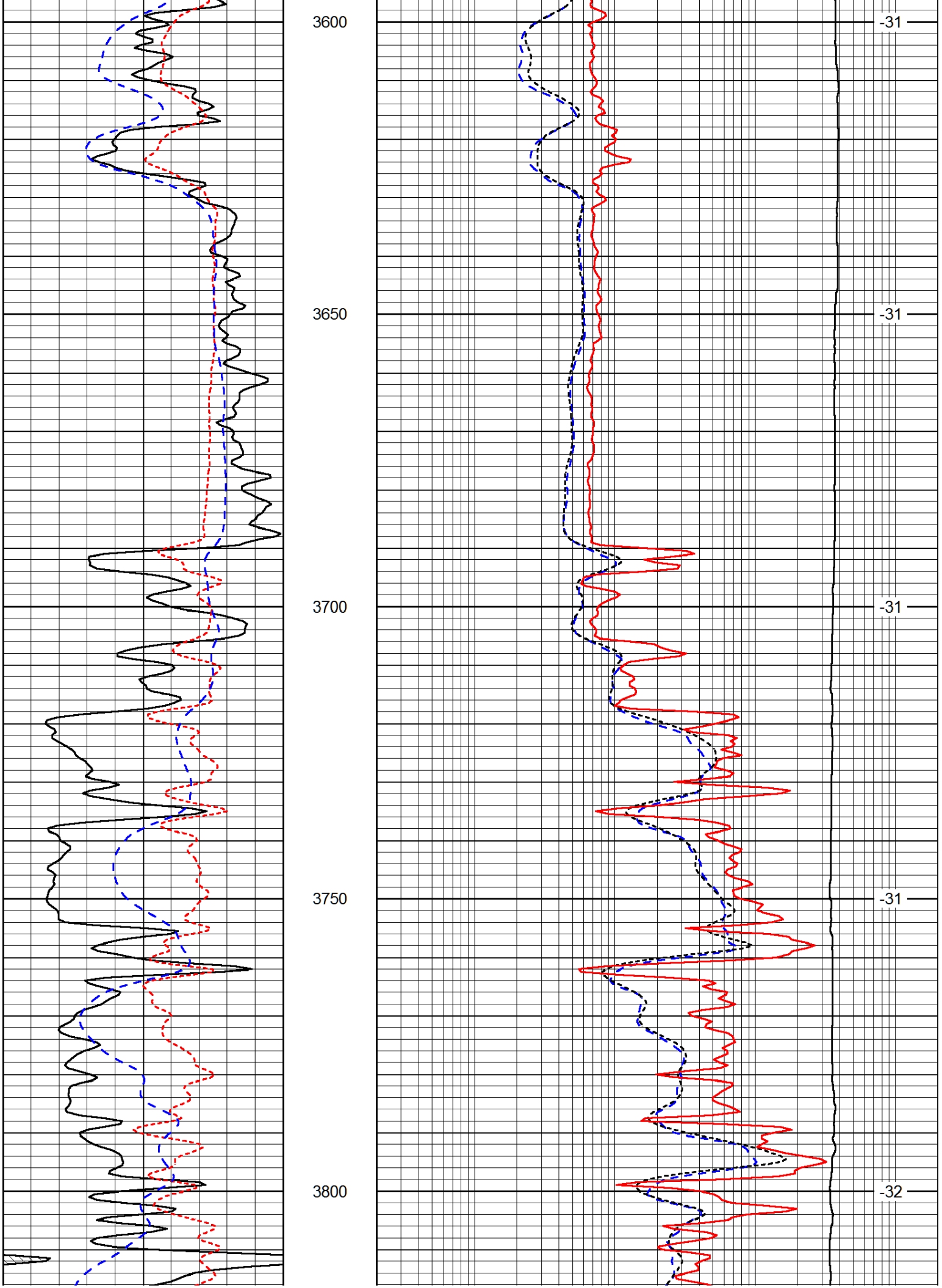

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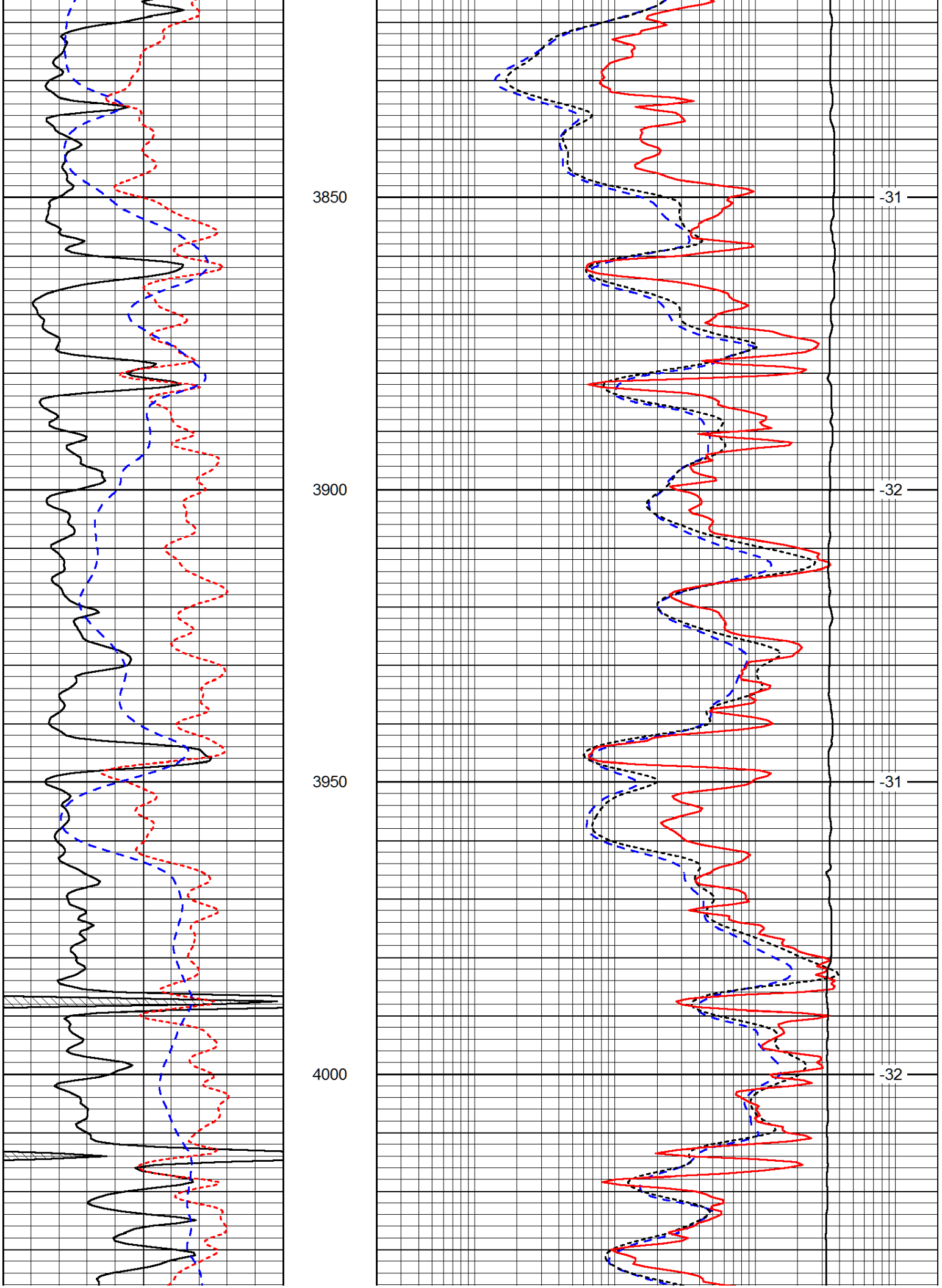

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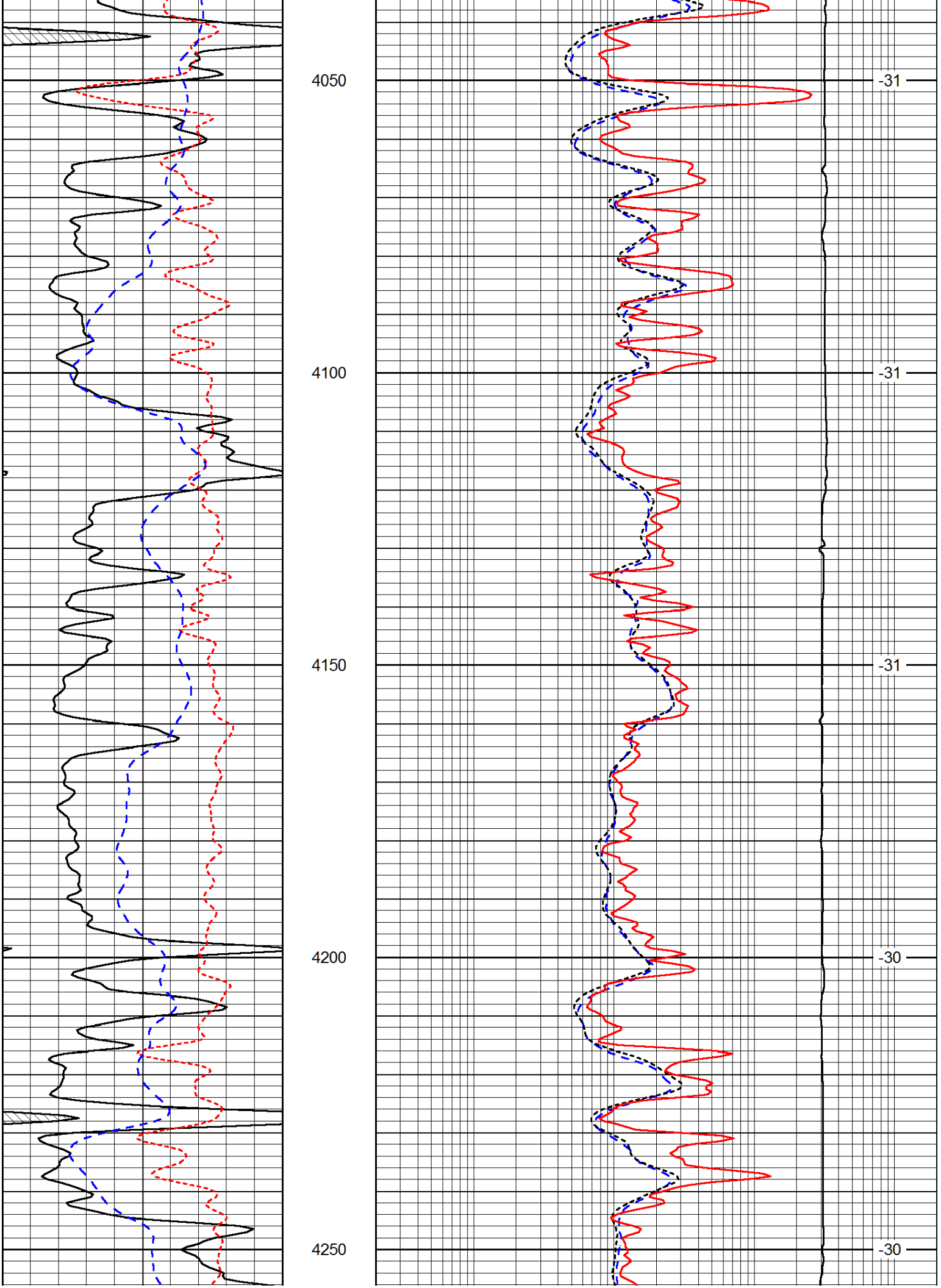

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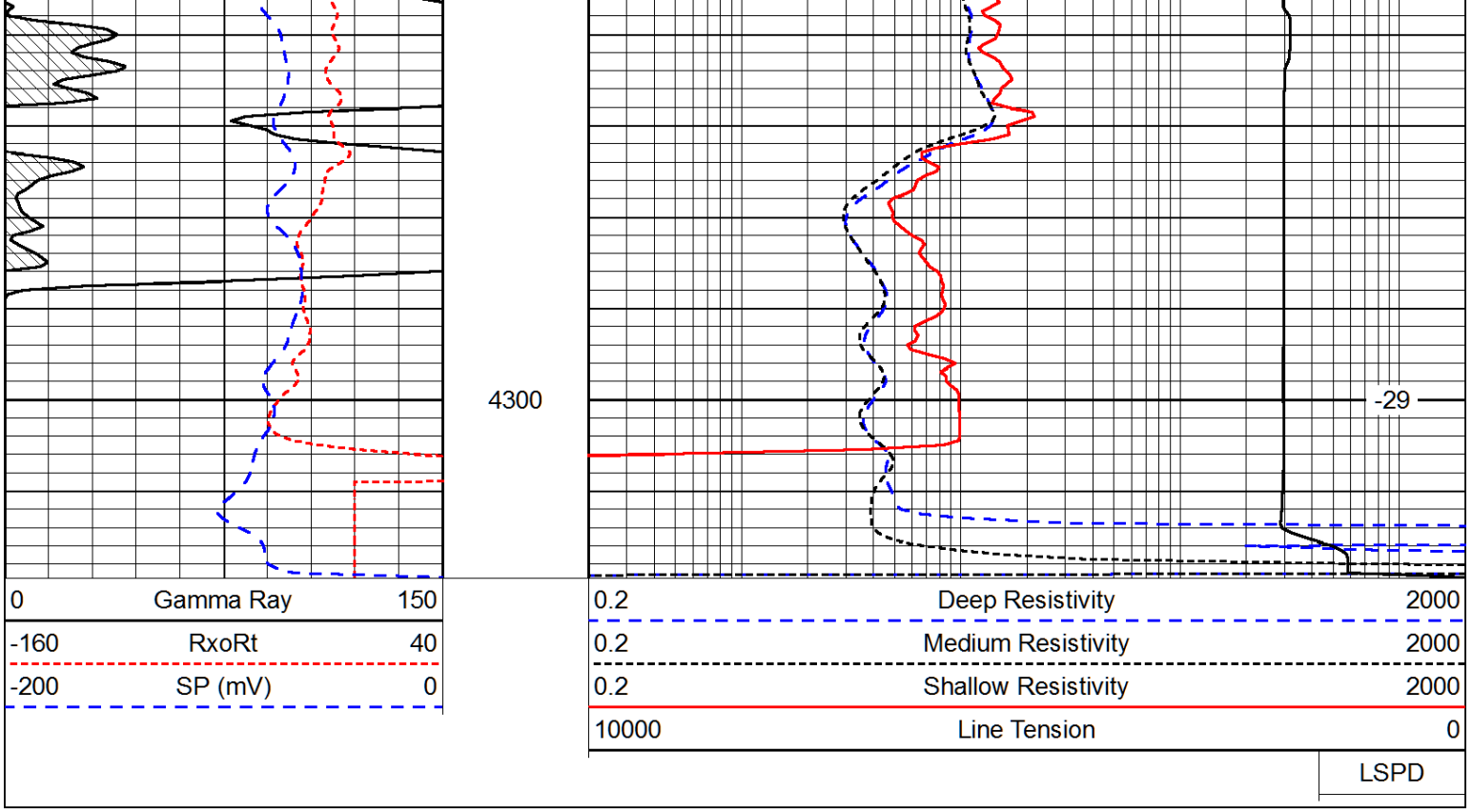

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3950
4000
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-32
-31
-32


4050
4100
4150
4200
4250
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-31
-30
-30



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

0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
10000	Line Tension	0

LSPD