PIONEER

Pioneer Energy Services

Dual Induction Log

API No.

15-153-20,929-00-00

Company Murfin Drilling Company, Inc.

Well Mary Ann No.1-1

Field

County Rawlins State Kansas

Location 330' FNL & 630' FWL

Sec: 1 Twp: 1S Rge: 36W

Other Services
CNL/CDL
MEL/BHCS

Permanent Datum Ground Level Elevation 3171
Log Measured From Kelly Bushing 10 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Elevation
K.B. 3181
D.F.
G.L. 3171

Date	7/24/2013		
Run Number	One		
Depth Driller	4475		
Depth Logger	4474		
Bottom Logged Interval	4473		
Top Log Interval	0		
Casing Driller	8.625 @ 222		
Casing Logger	222		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity,ppm CL	1,100		
Density / Viscosity	9.2	78	
pH / Fluid Loss	11.5	6.0	
Source of Sample	Flowline		
Rm @ Meas. Temp	1.65 @ 76		
Rmf @ Meas. Temp	1.24 @ 76		
Rmc @ Meas. Temp	2.23 @ 76		
Source of Rmf / Rmc	Charts		
Rm @ BHT	1.04 @ 121		
Operating Rig Time	5 Hours		
Max Rec. Temp. F	121		
Equipment Number	17		
Location	Hays		
Recorded By	C. Desaire		
Witnessed By	Wes Hansen		

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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

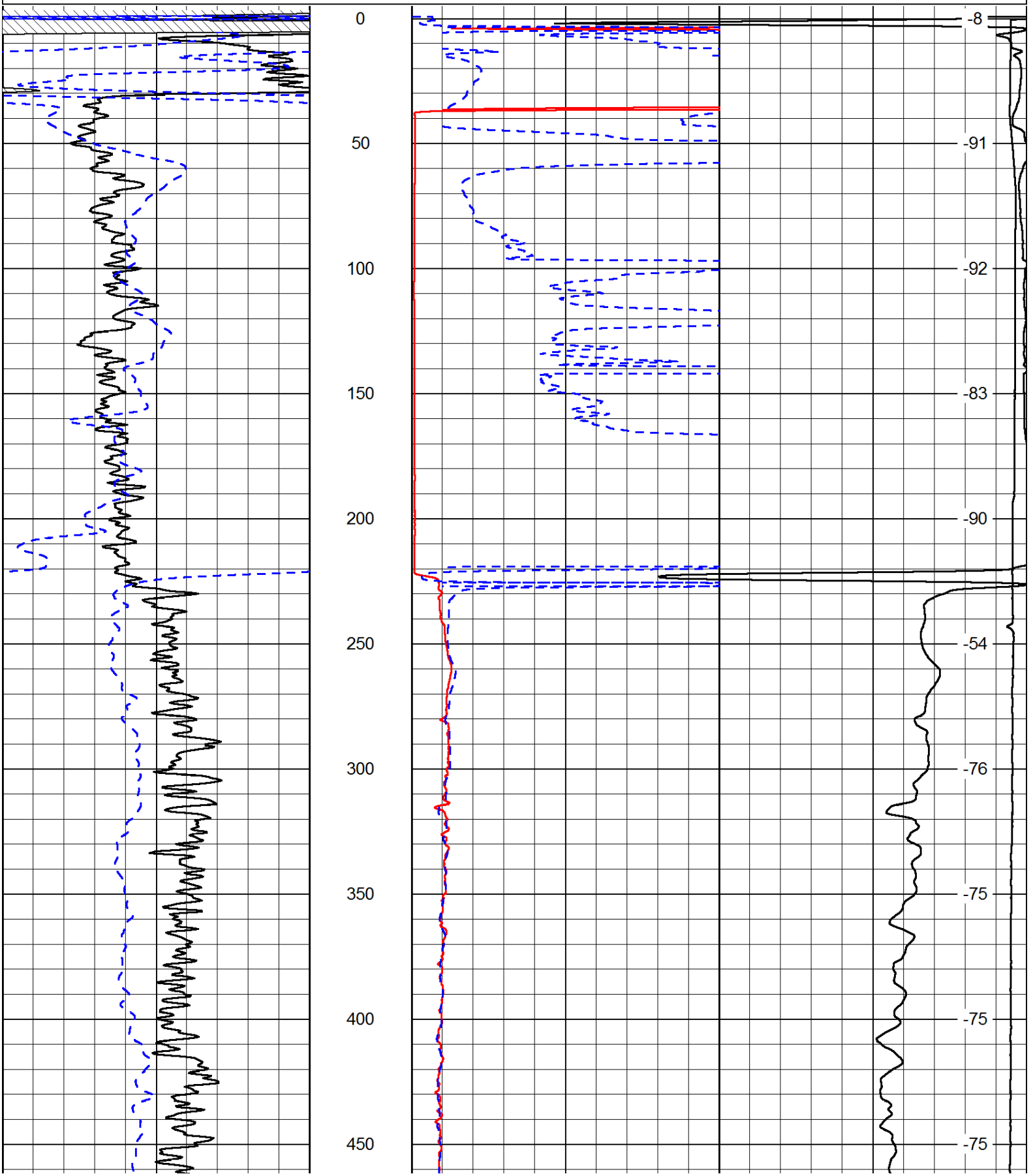
Thank you for using Pioneer Energy Services
www.pioneeres.com
785 625 3858

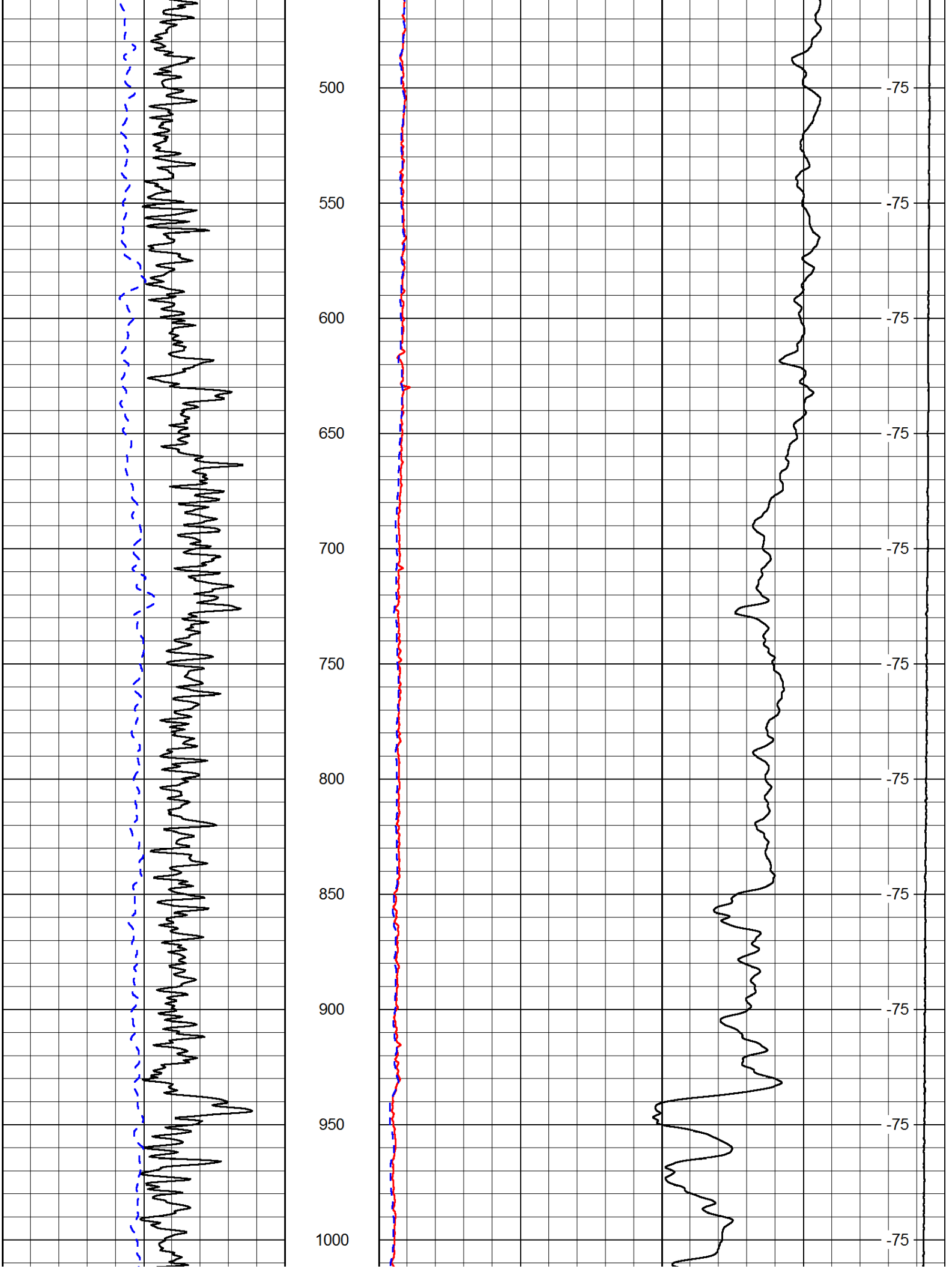
Beardsley KS, 14 N from Hwy 36,
3 W, 1 N, 1/2 W, N Into appx 1 mile

Database File: c:\warrior\data\murfin_mary ann #1-1\murfhd.db
Dataset Pathname: dil/murfstk
Presentation Format: dil2in
Dataset Creation: Wed Jul 24 14:37:42 2013
Charted by: Depth in Feet scaled 1:600

Charted by: Depth in Feet scaled 1:500

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

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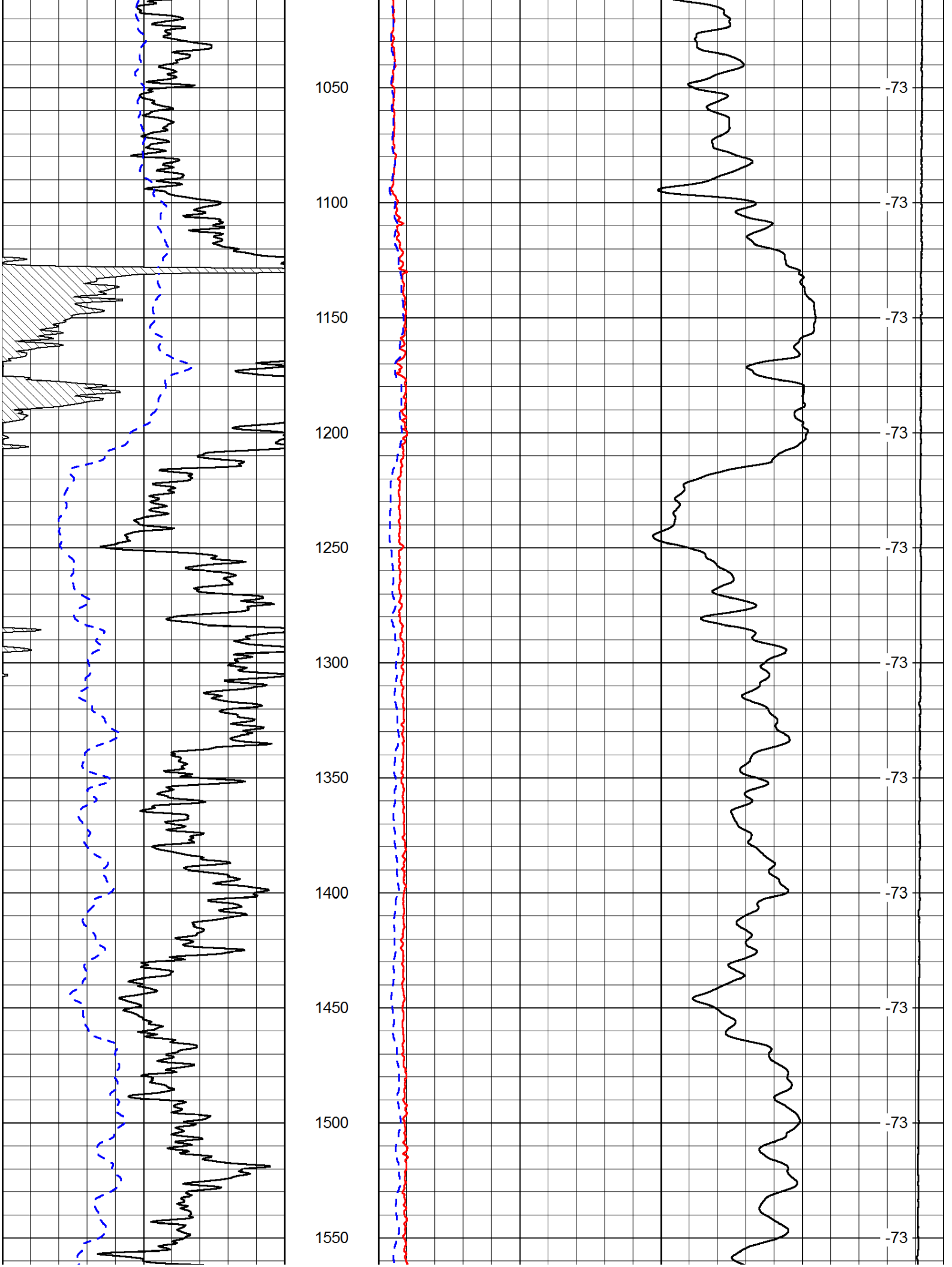
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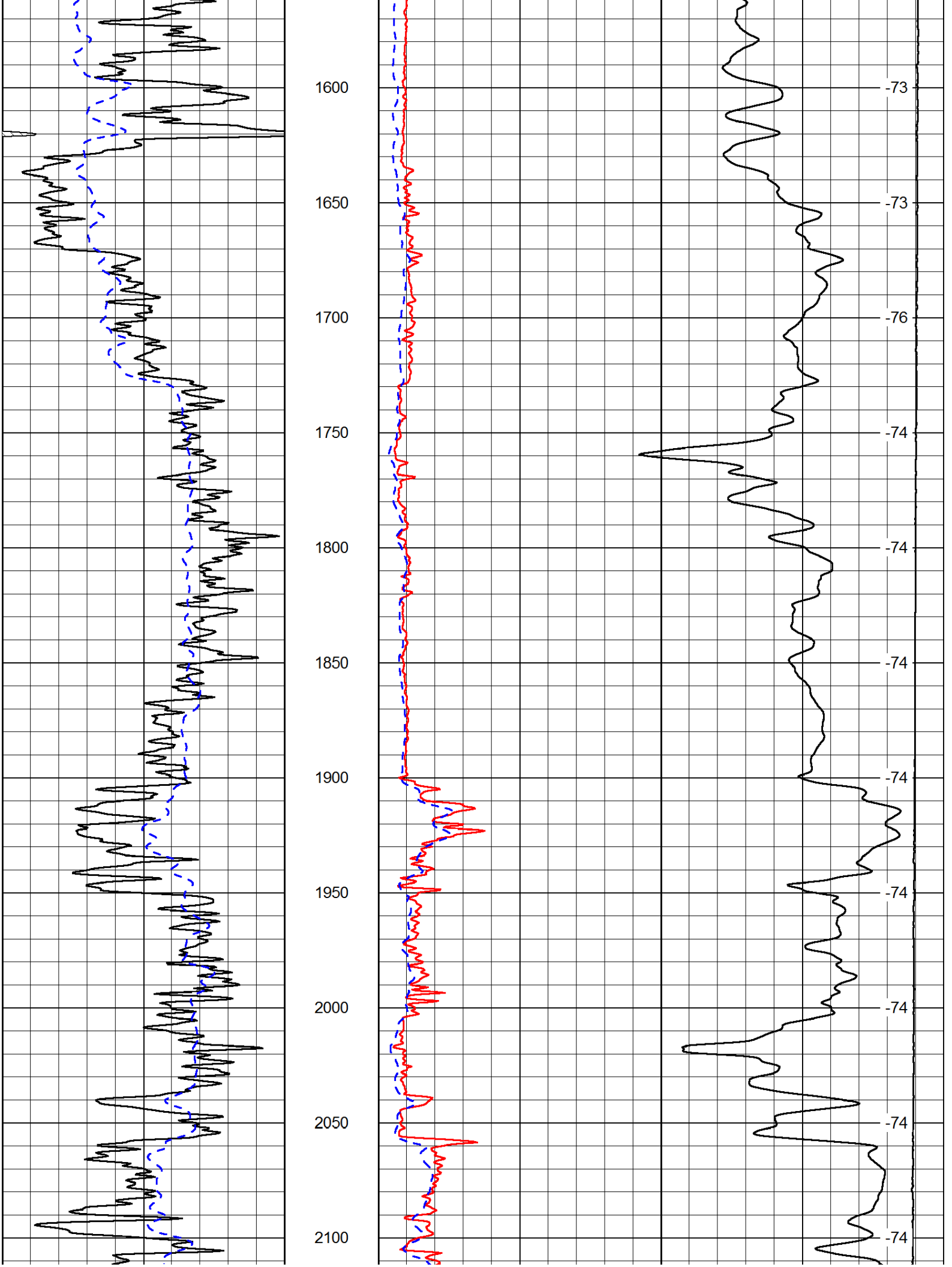
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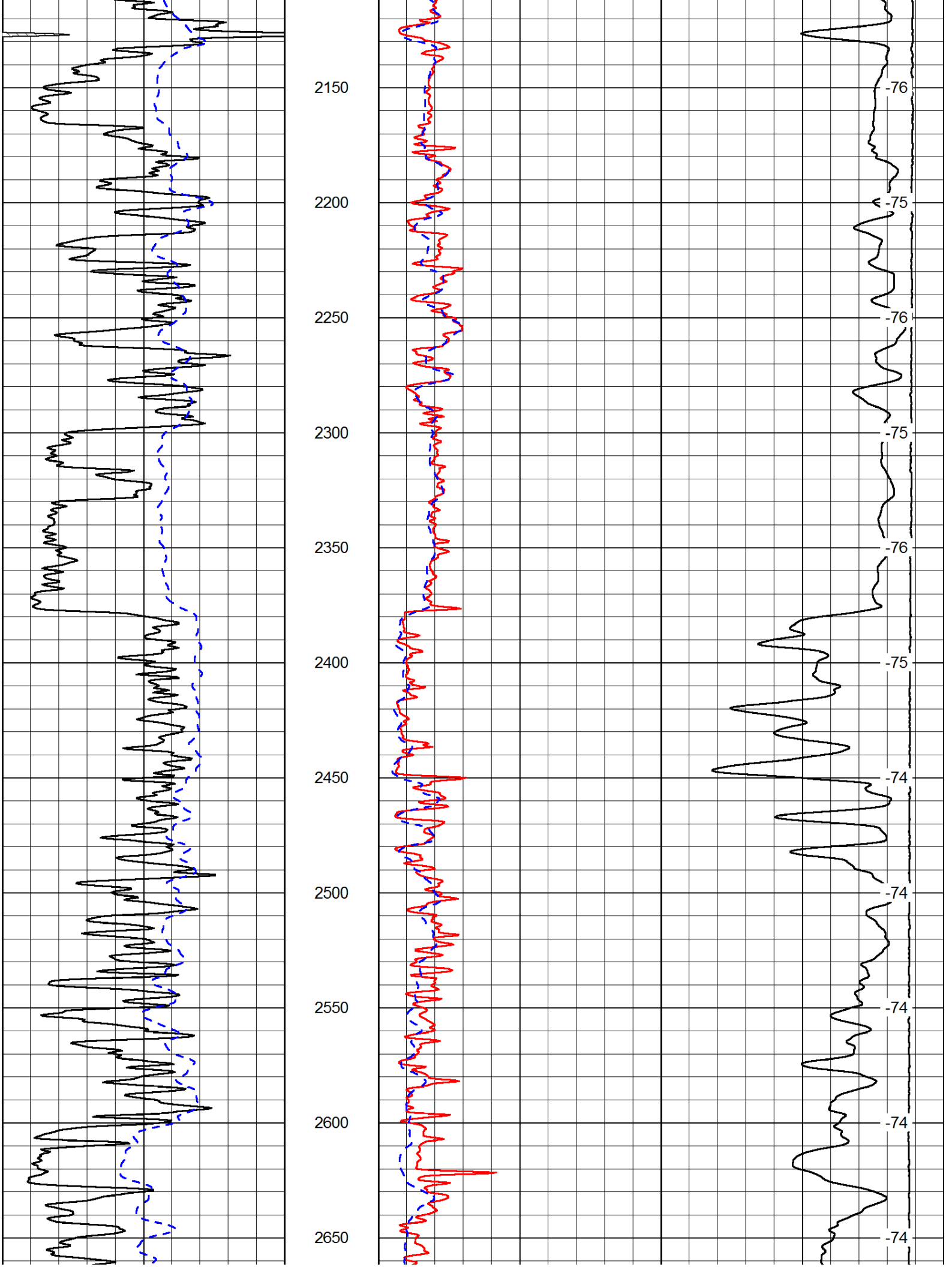
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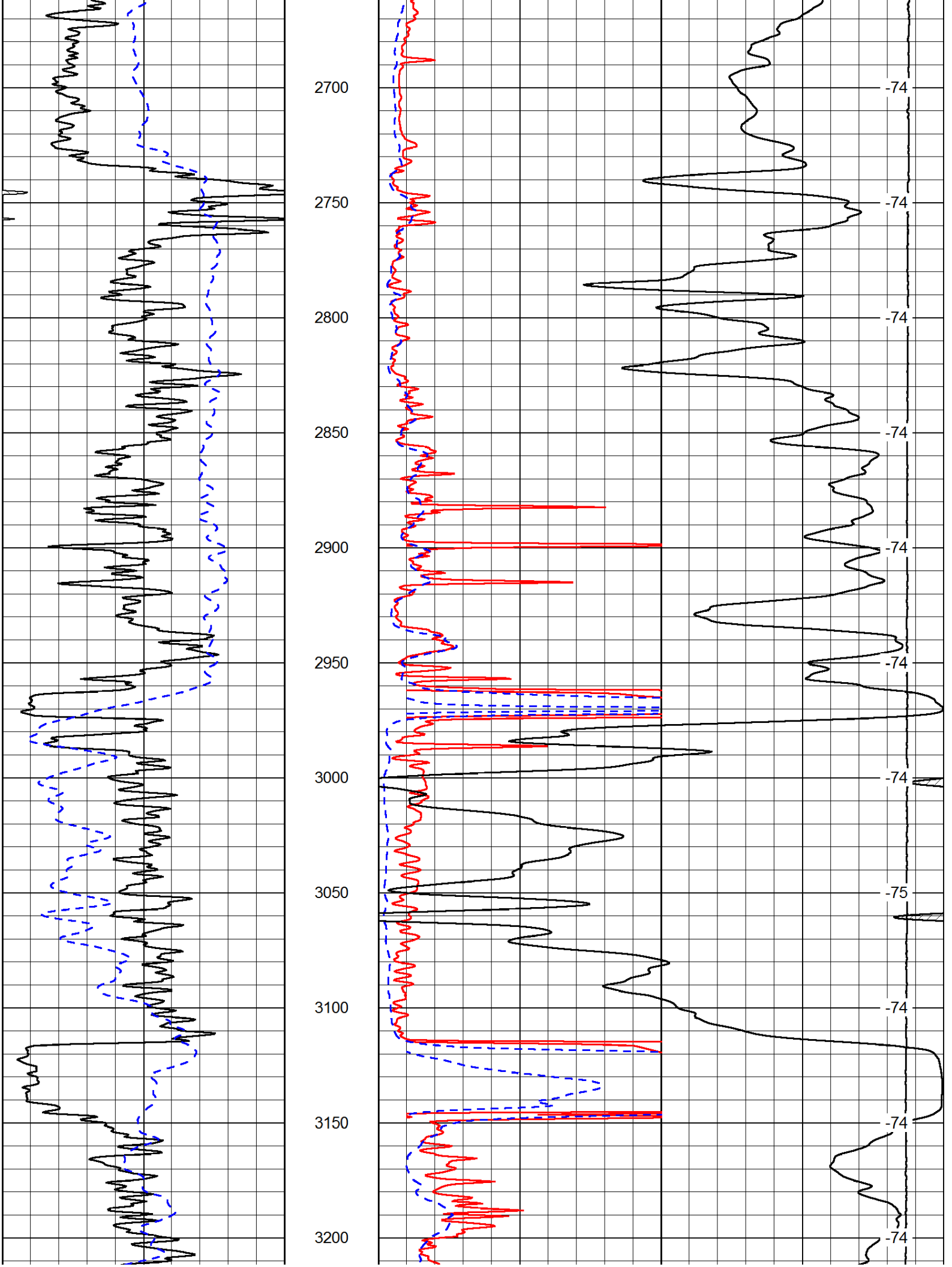
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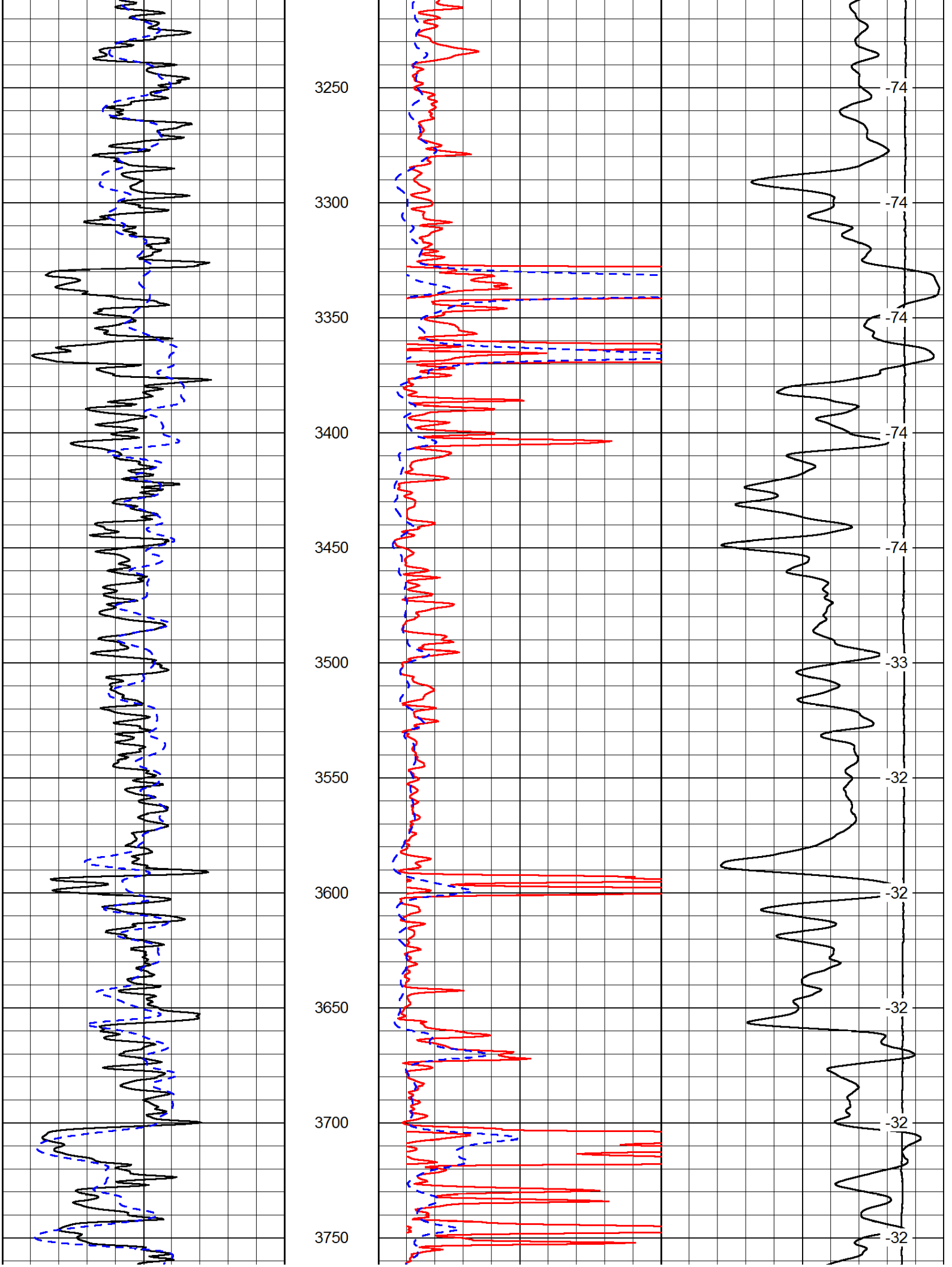
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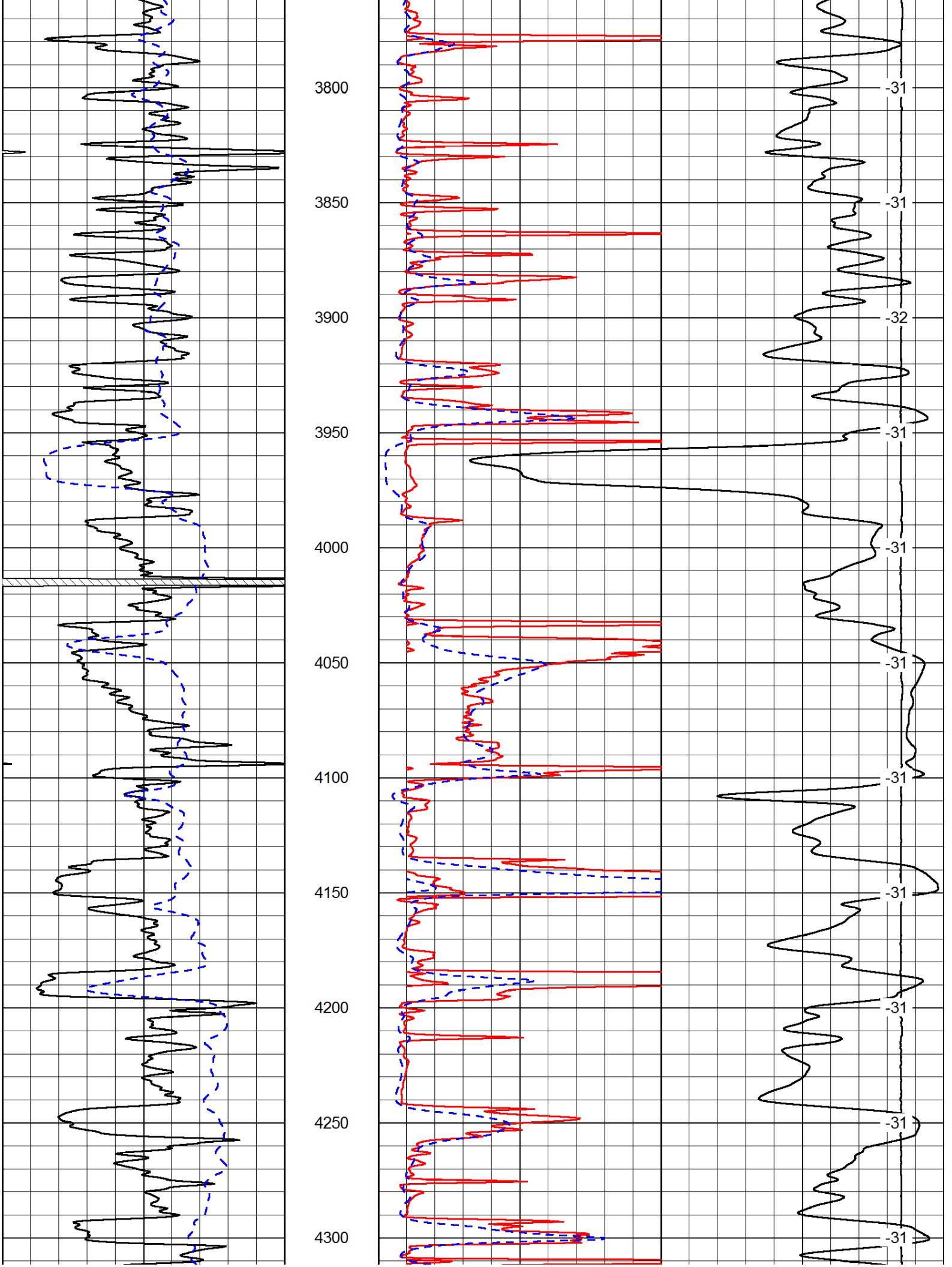
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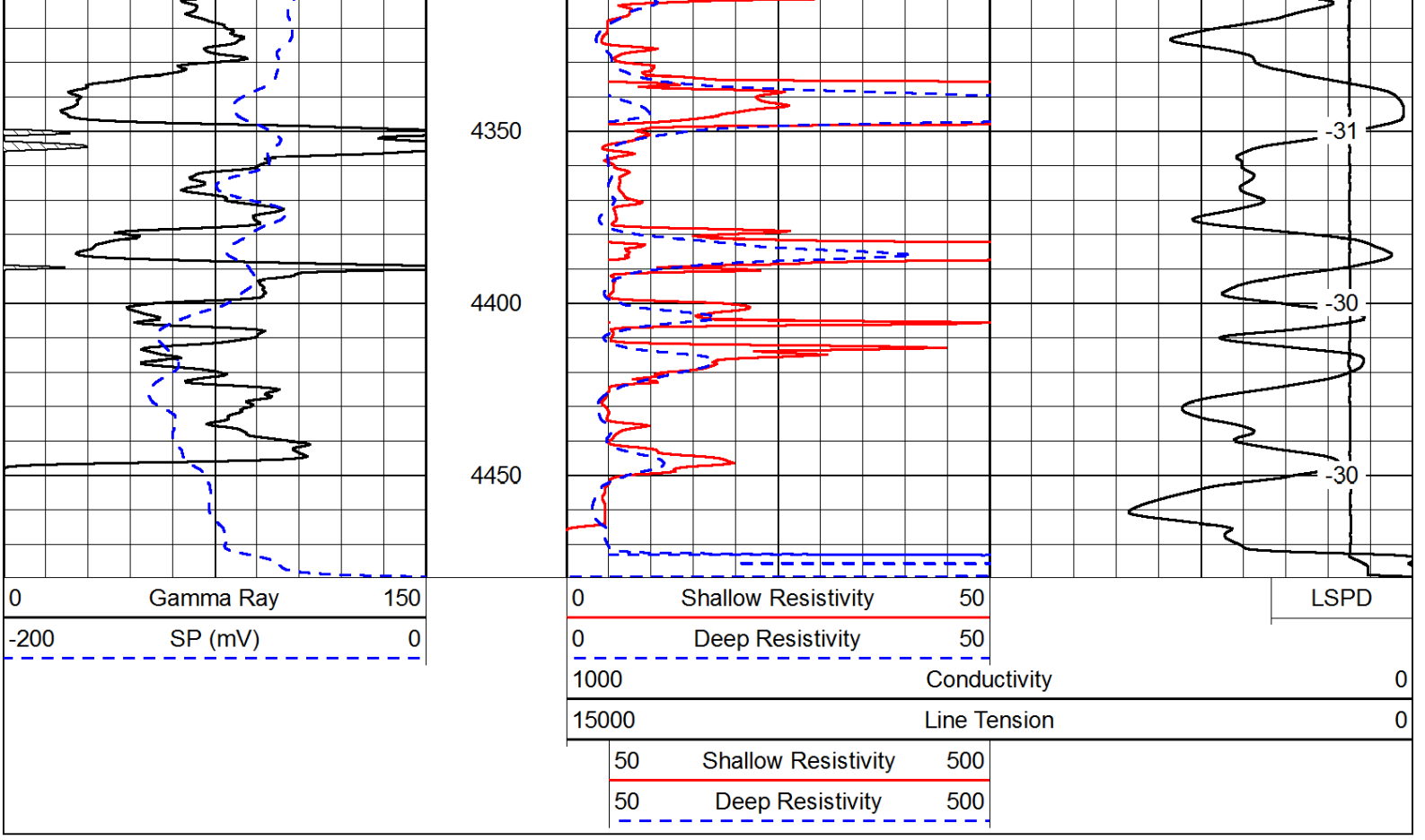

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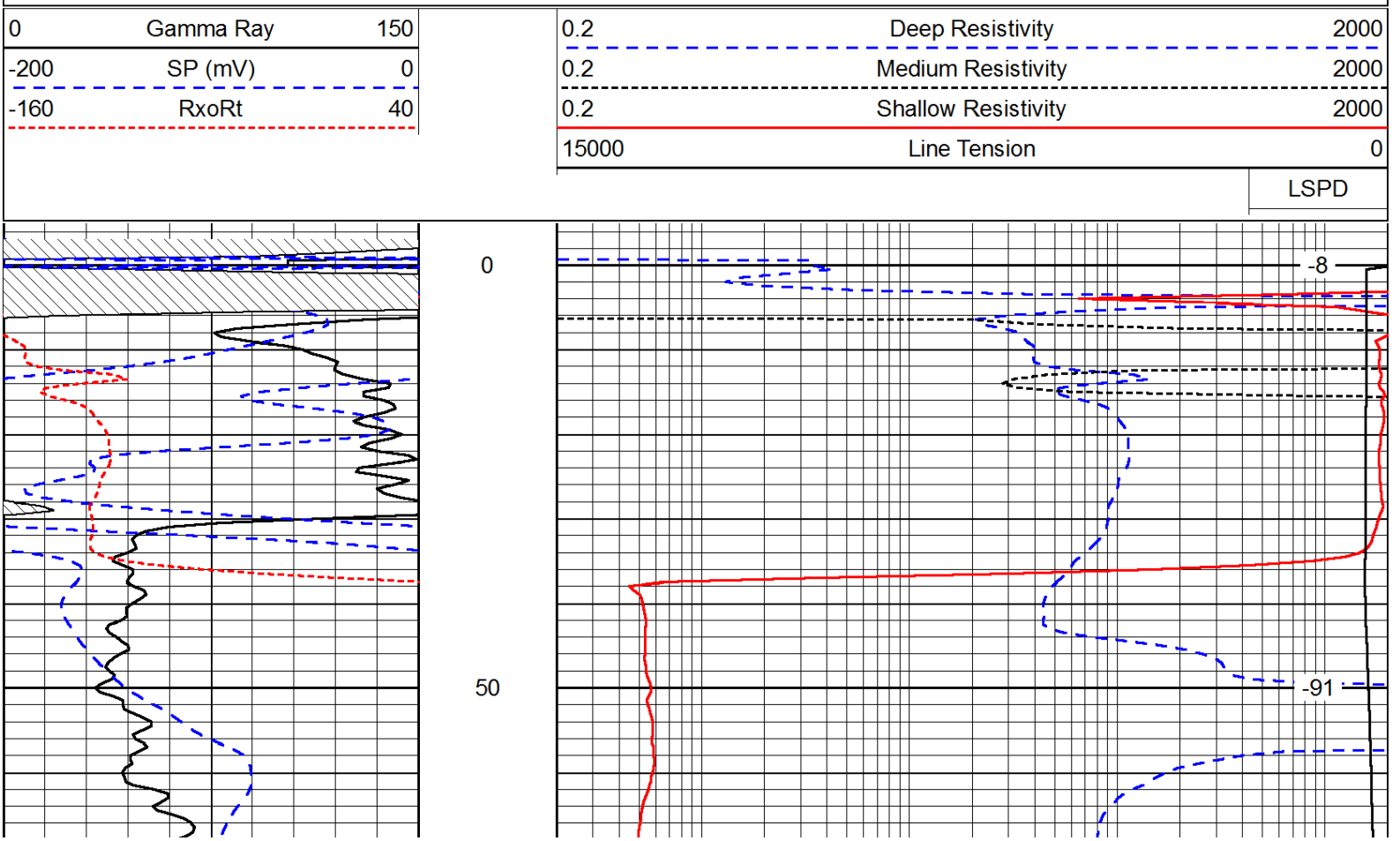

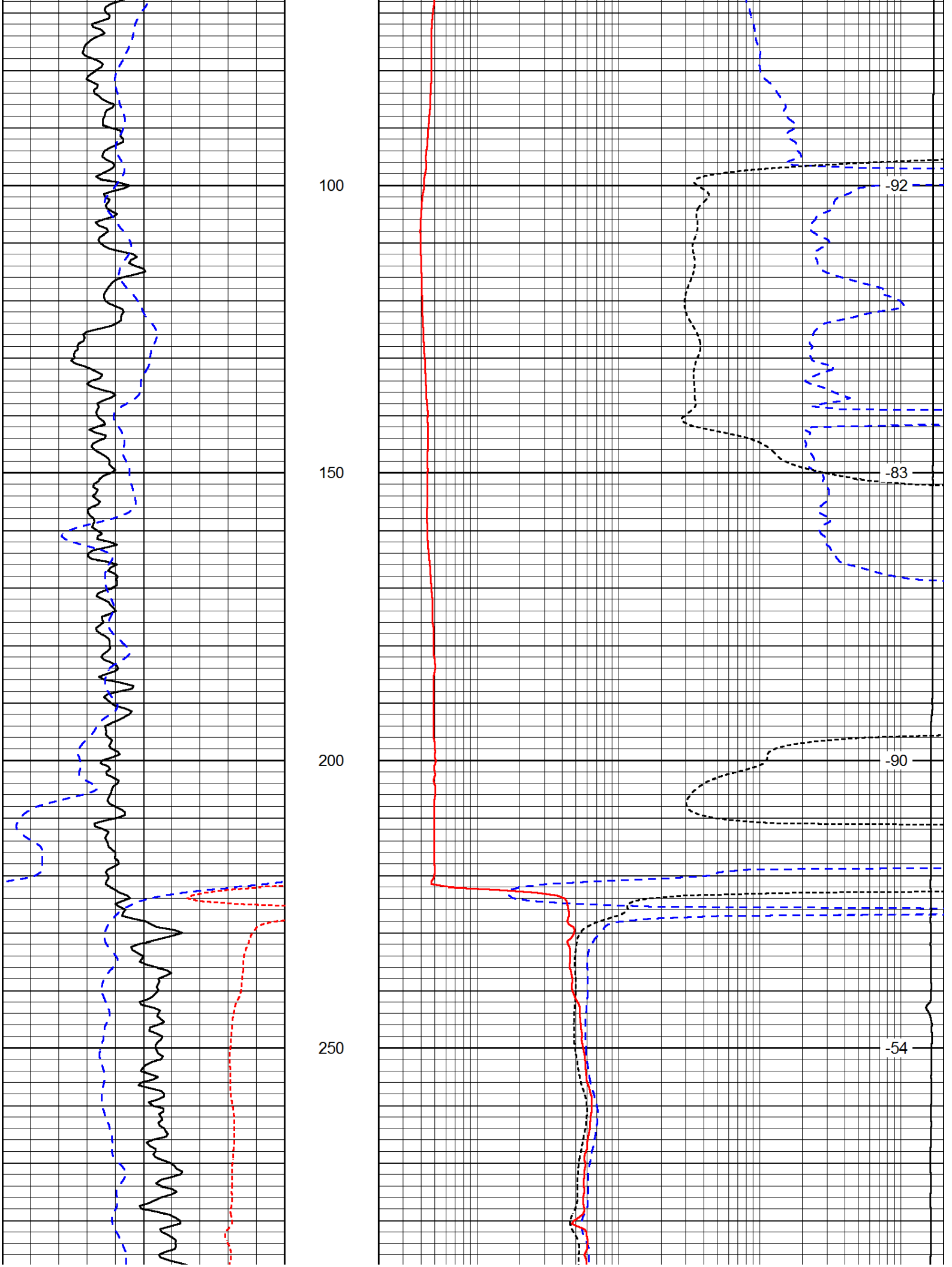
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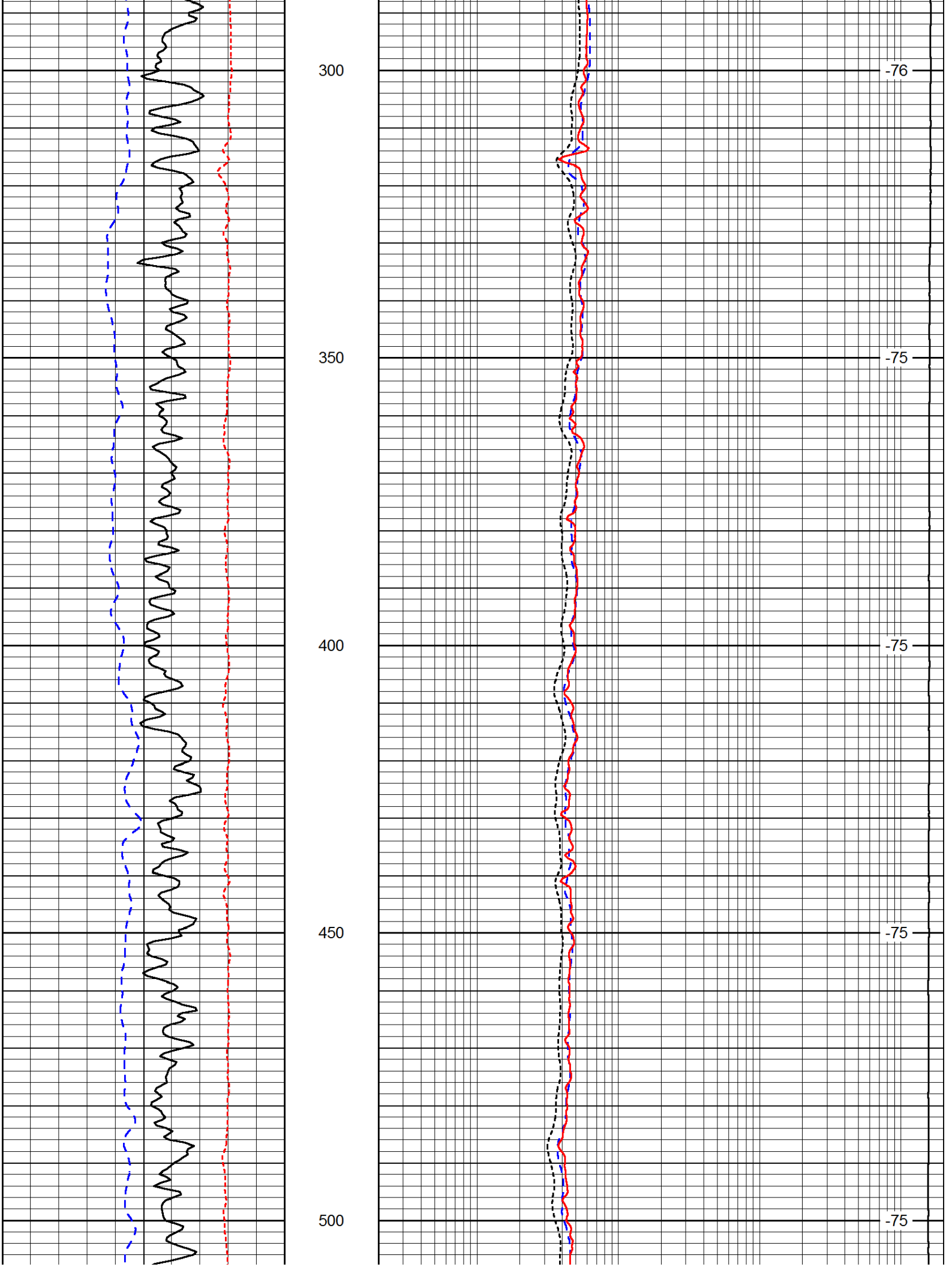
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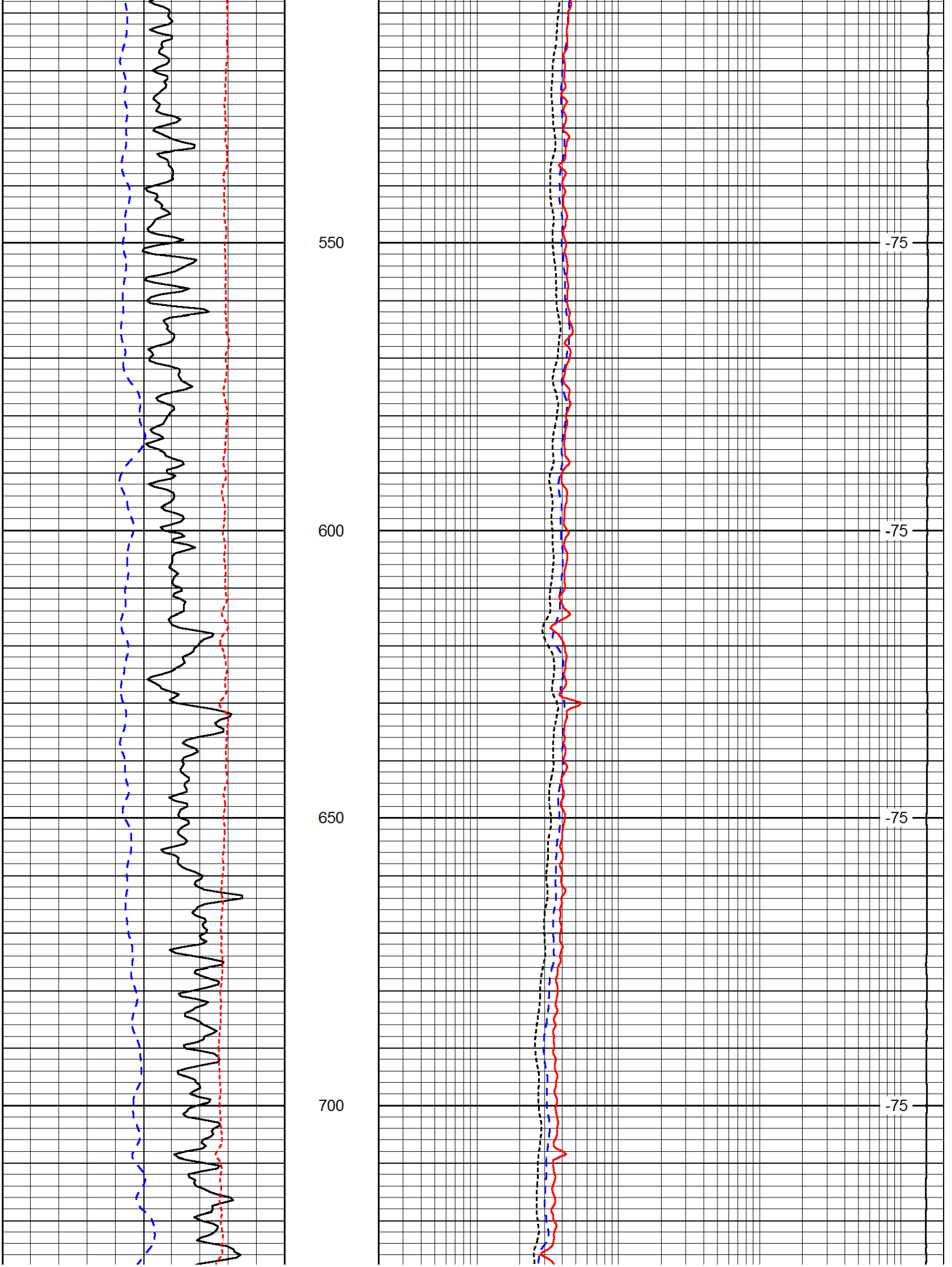
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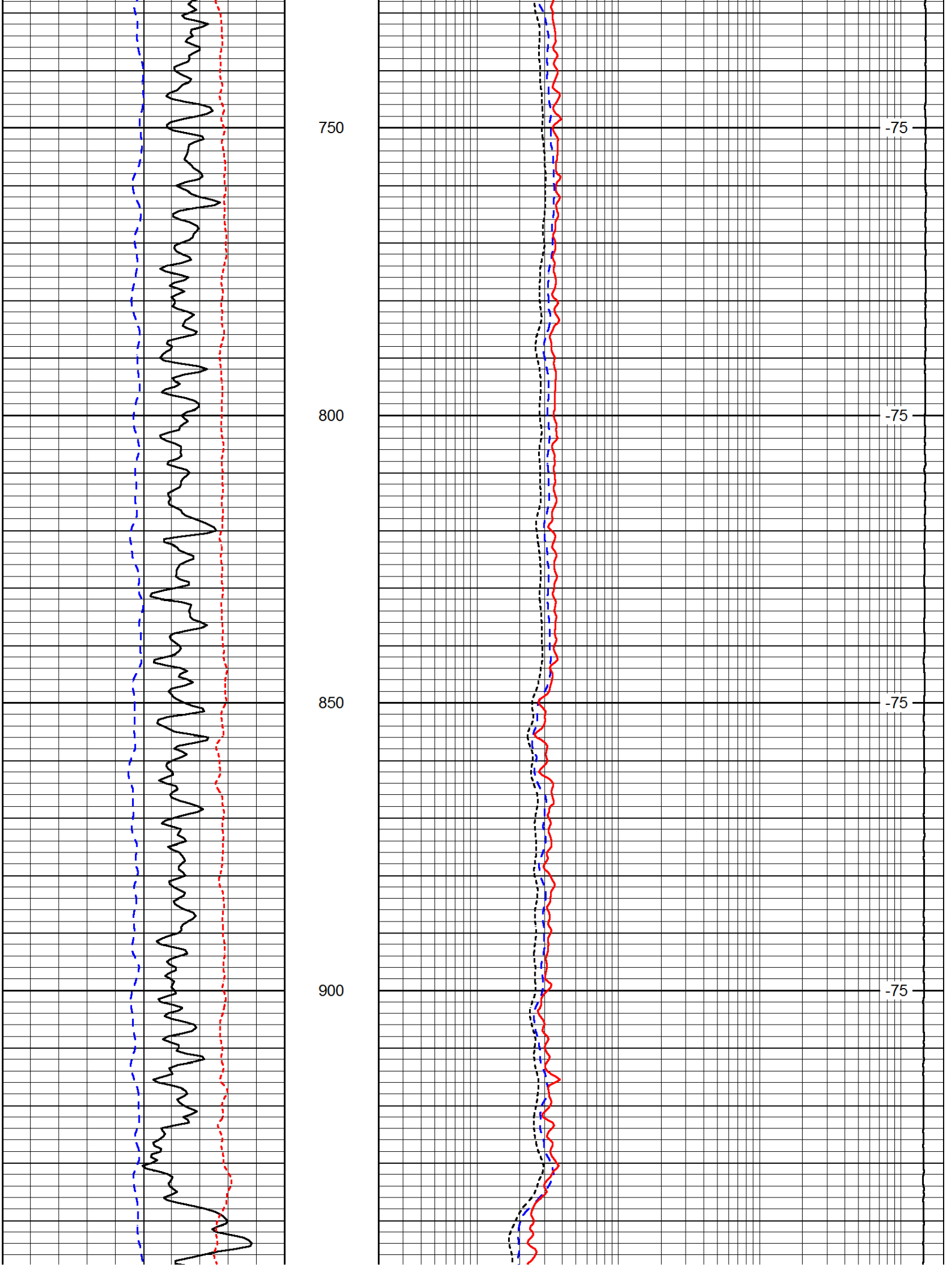
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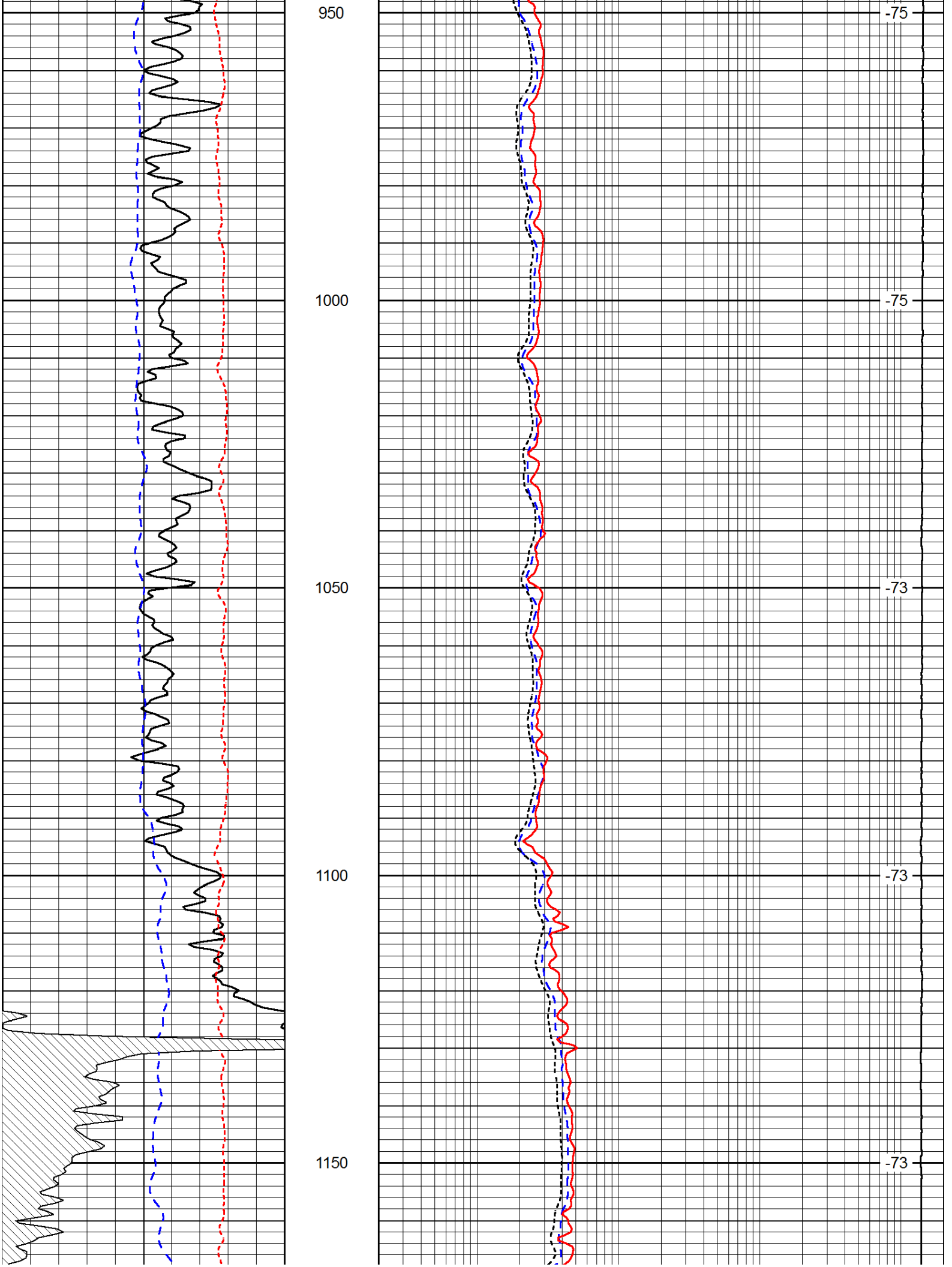
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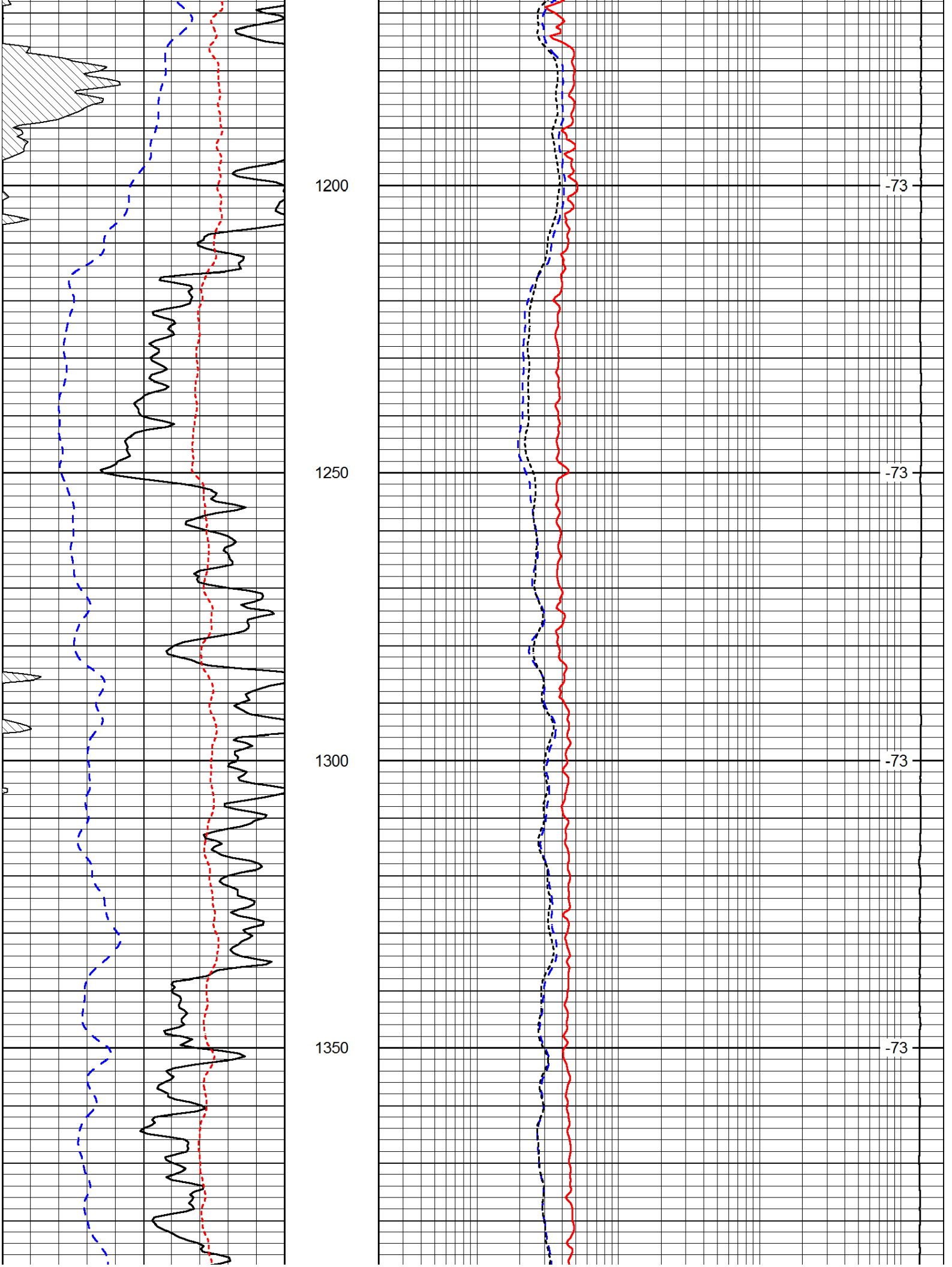
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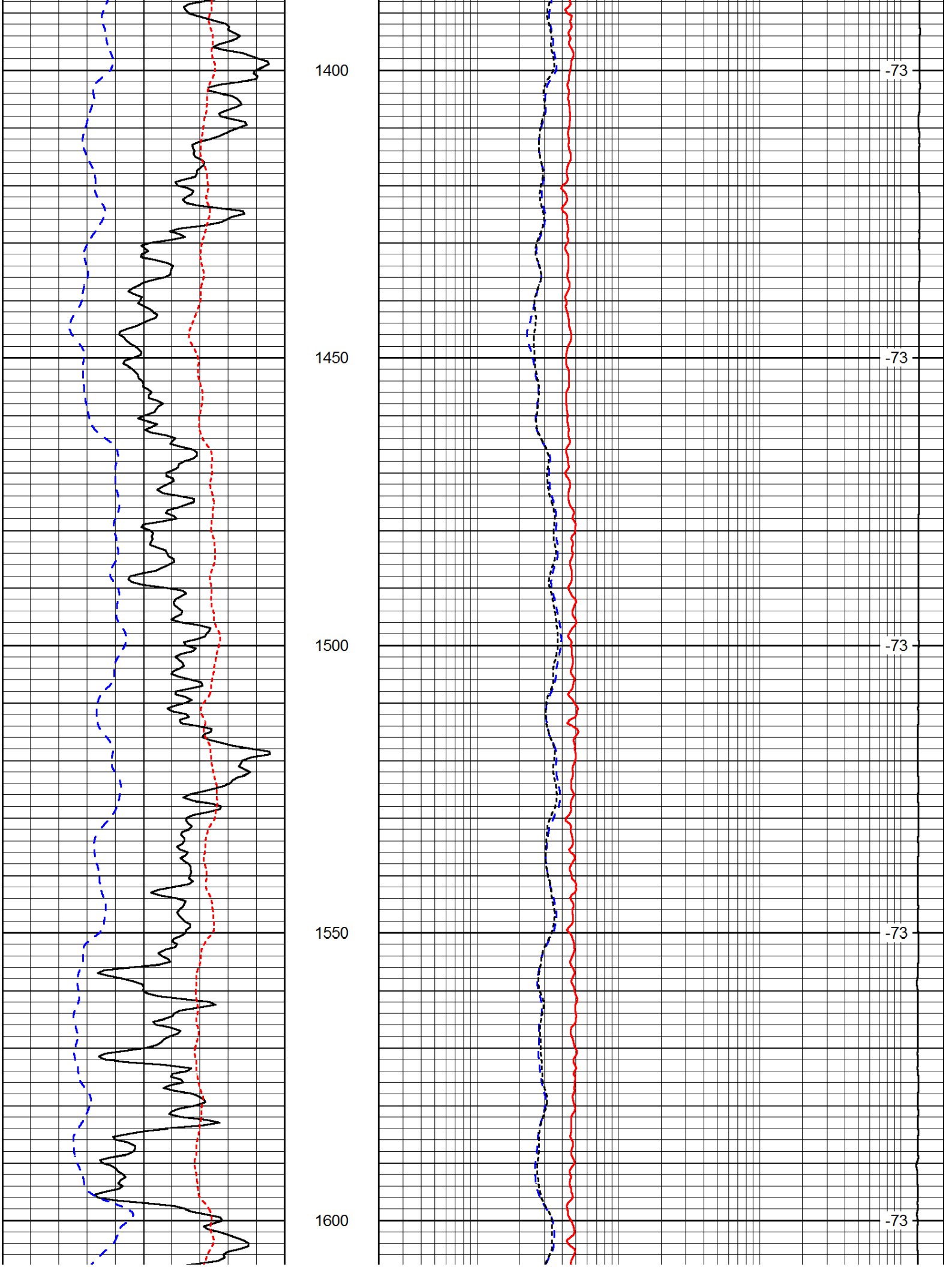
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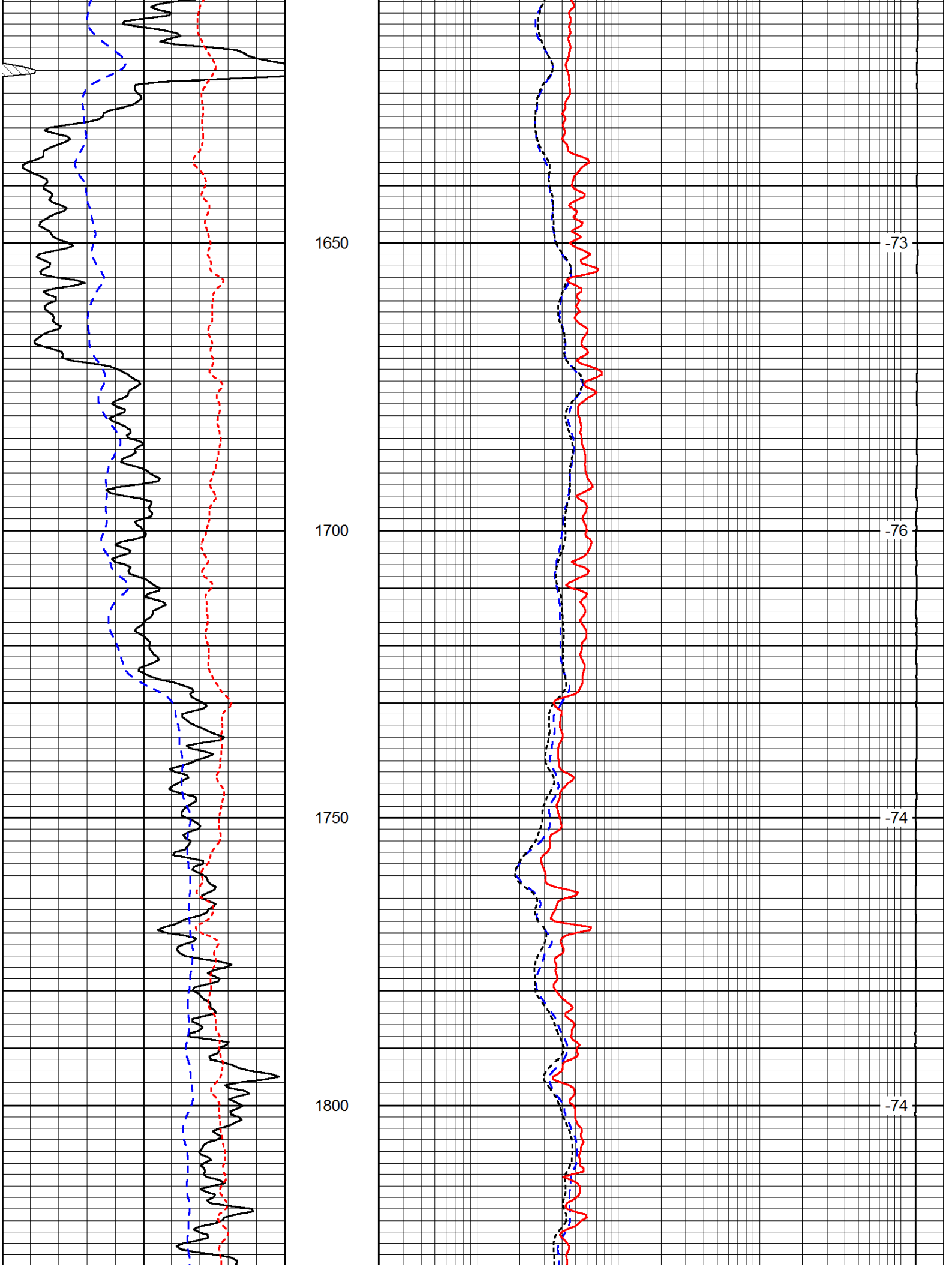
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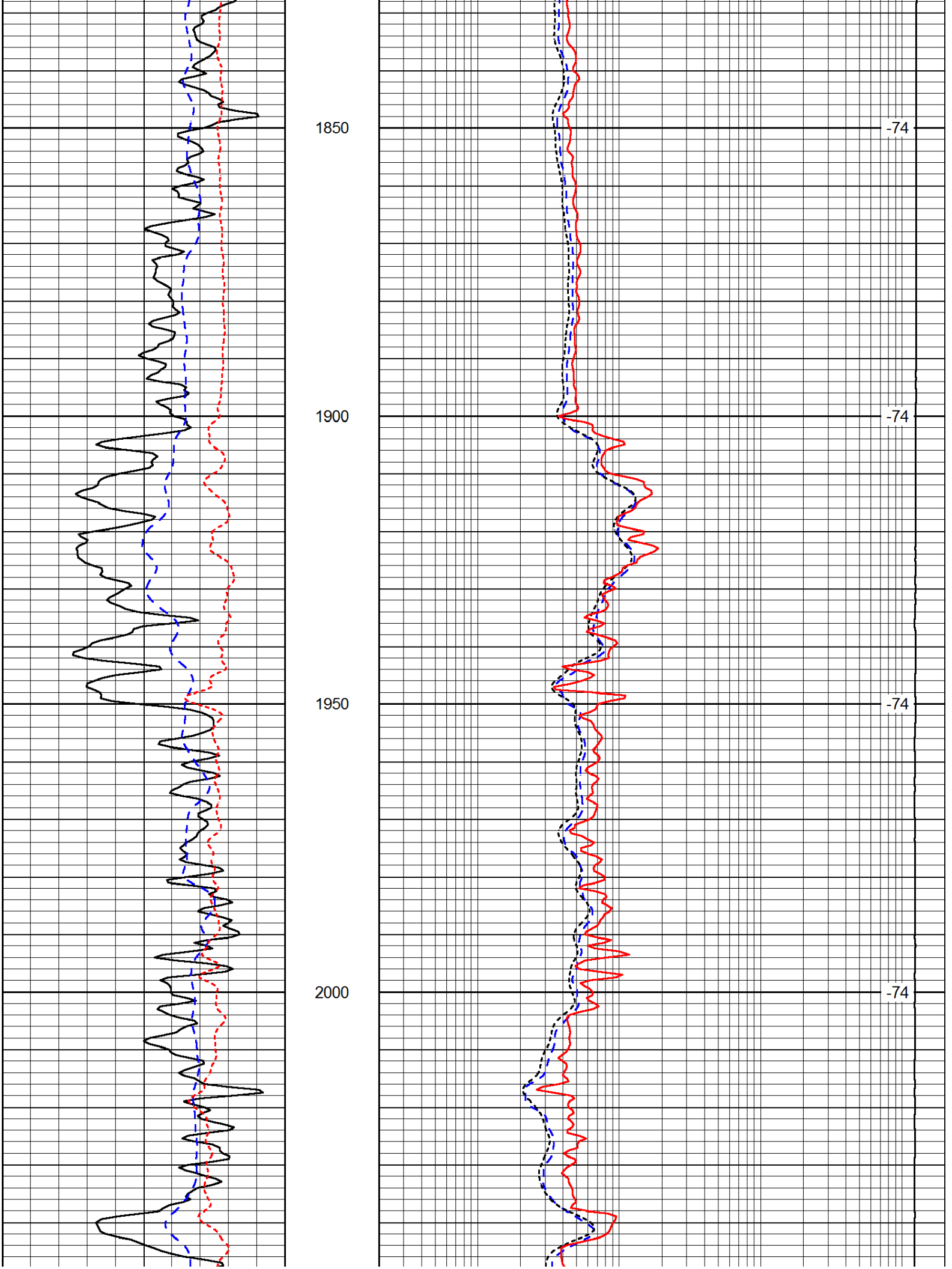
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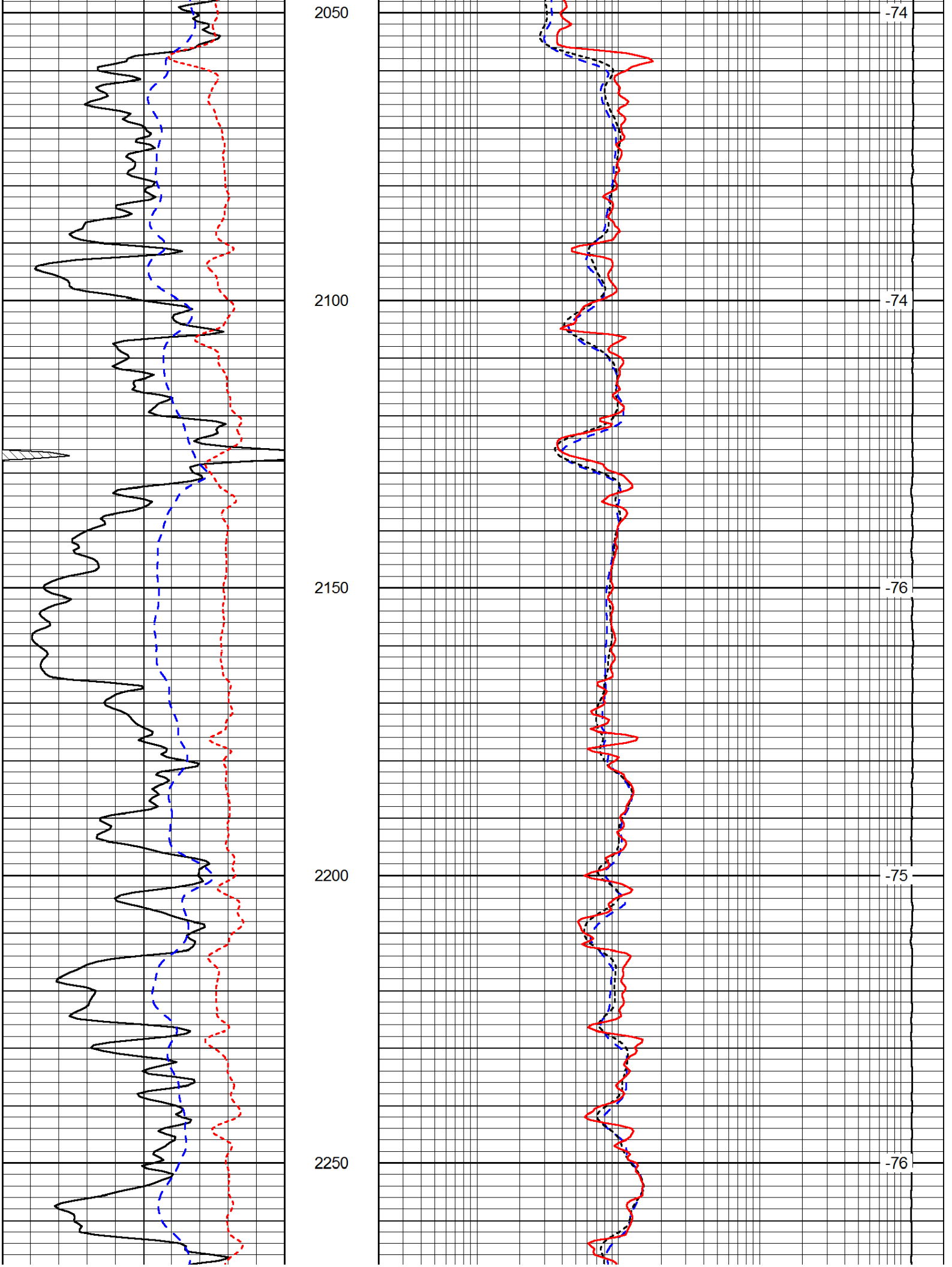
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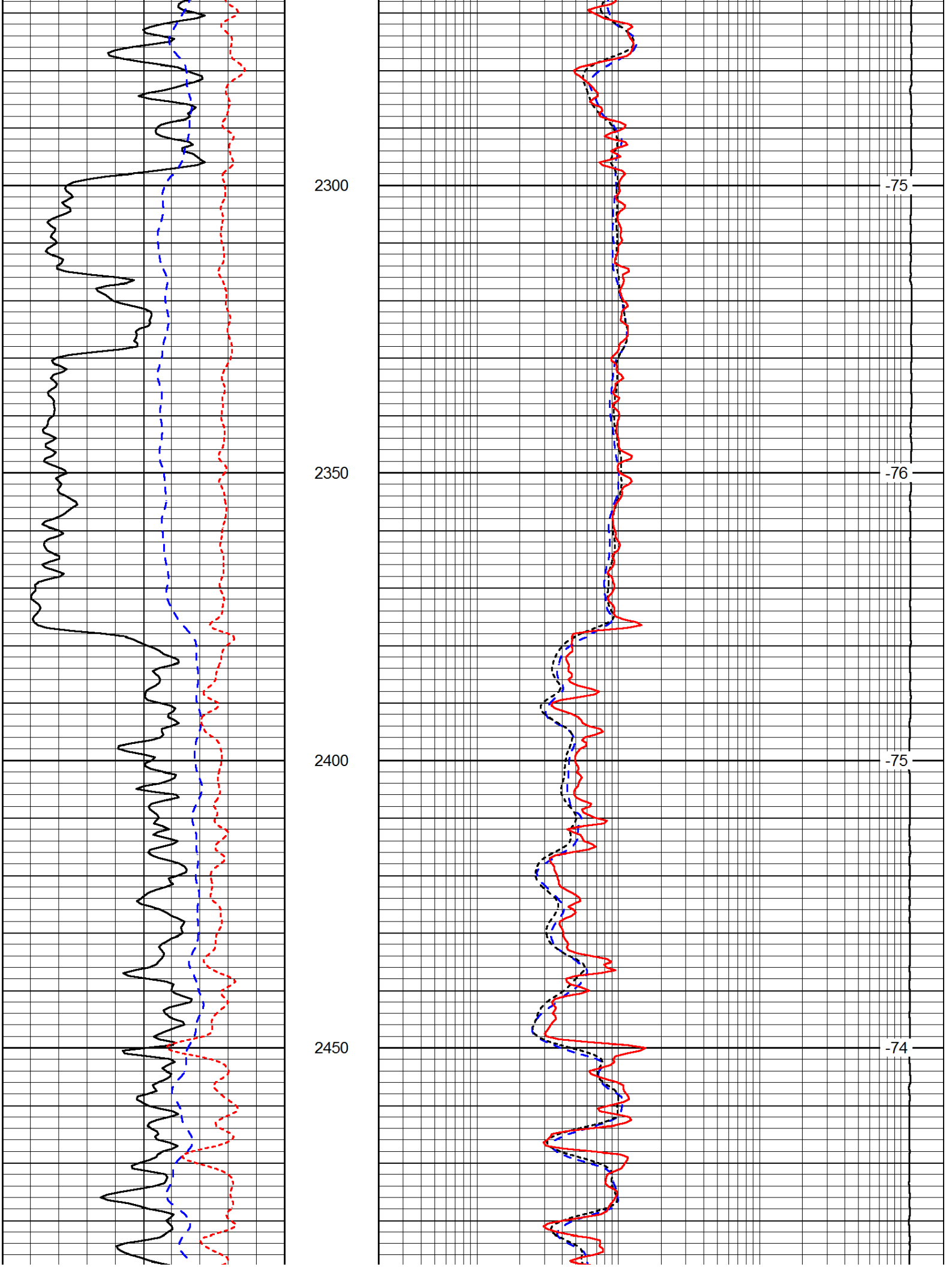
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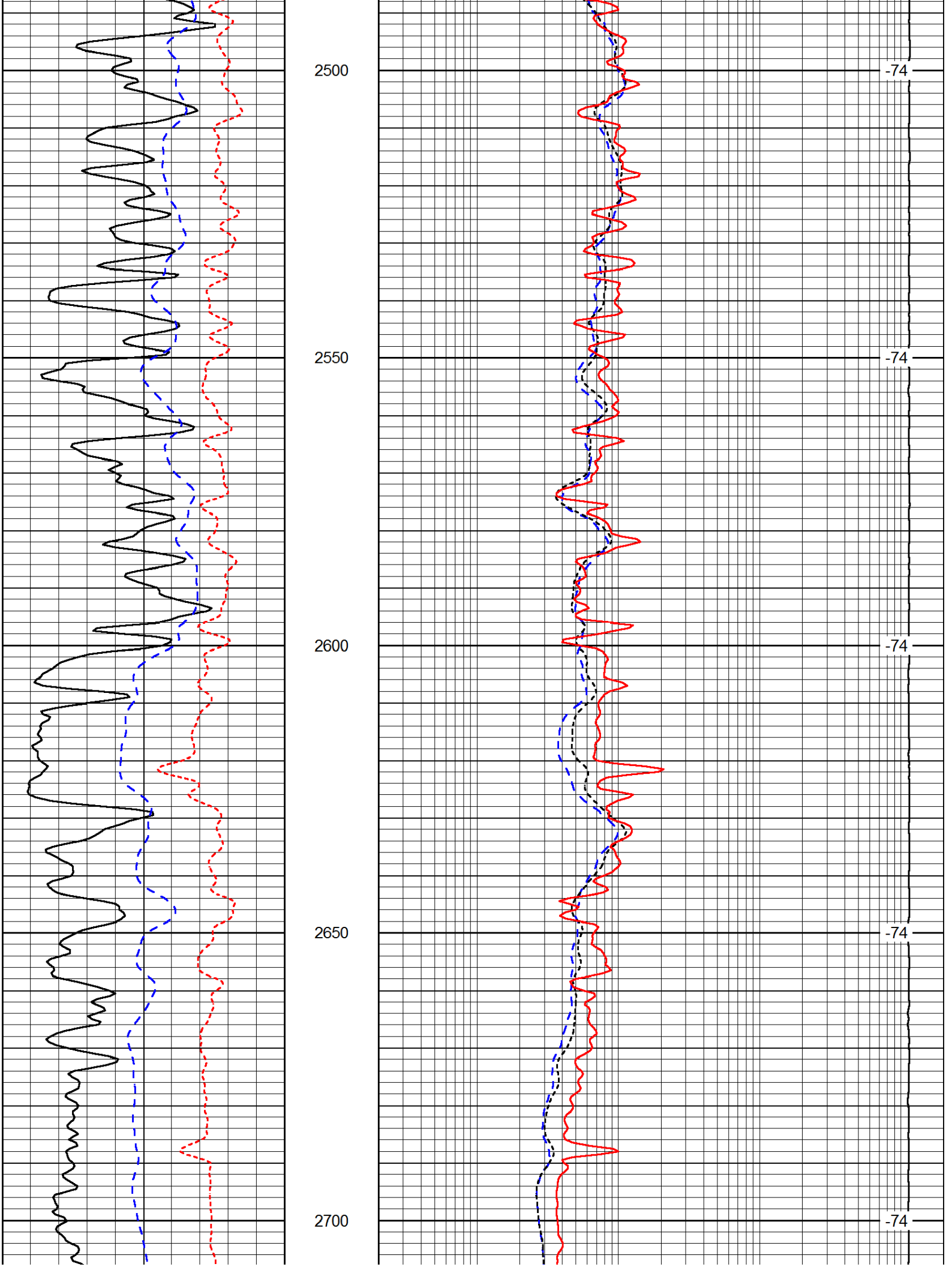
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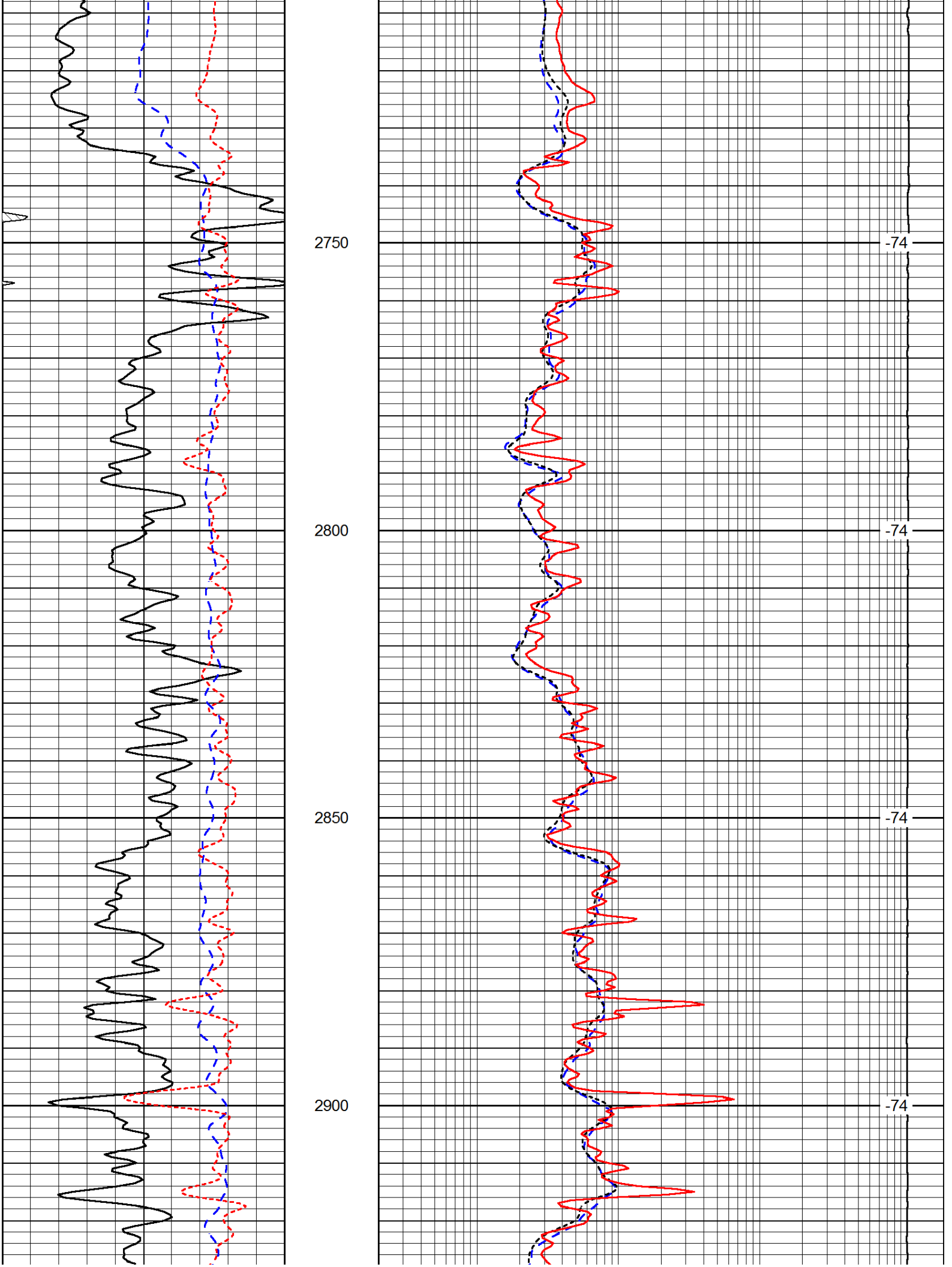
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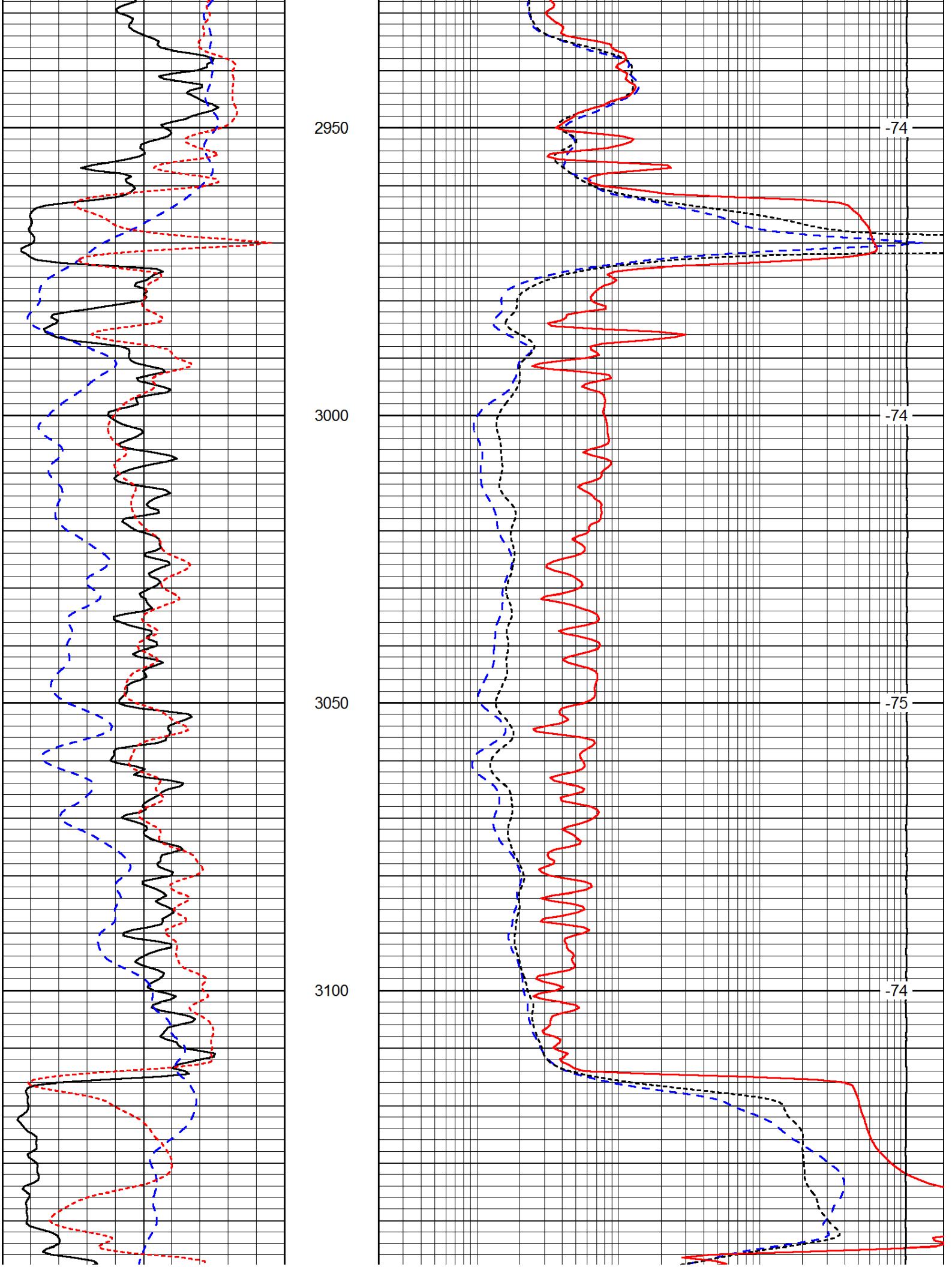
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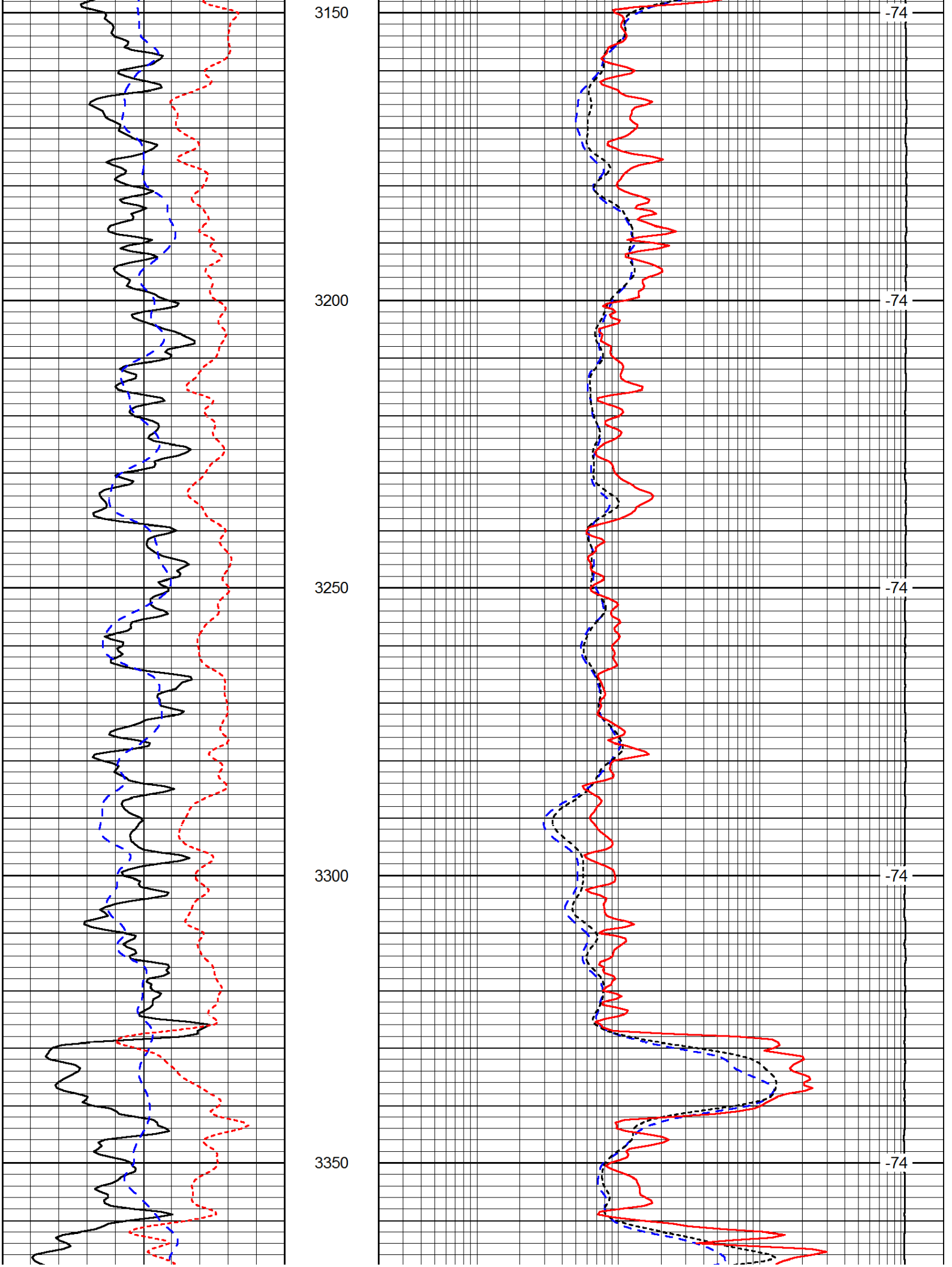
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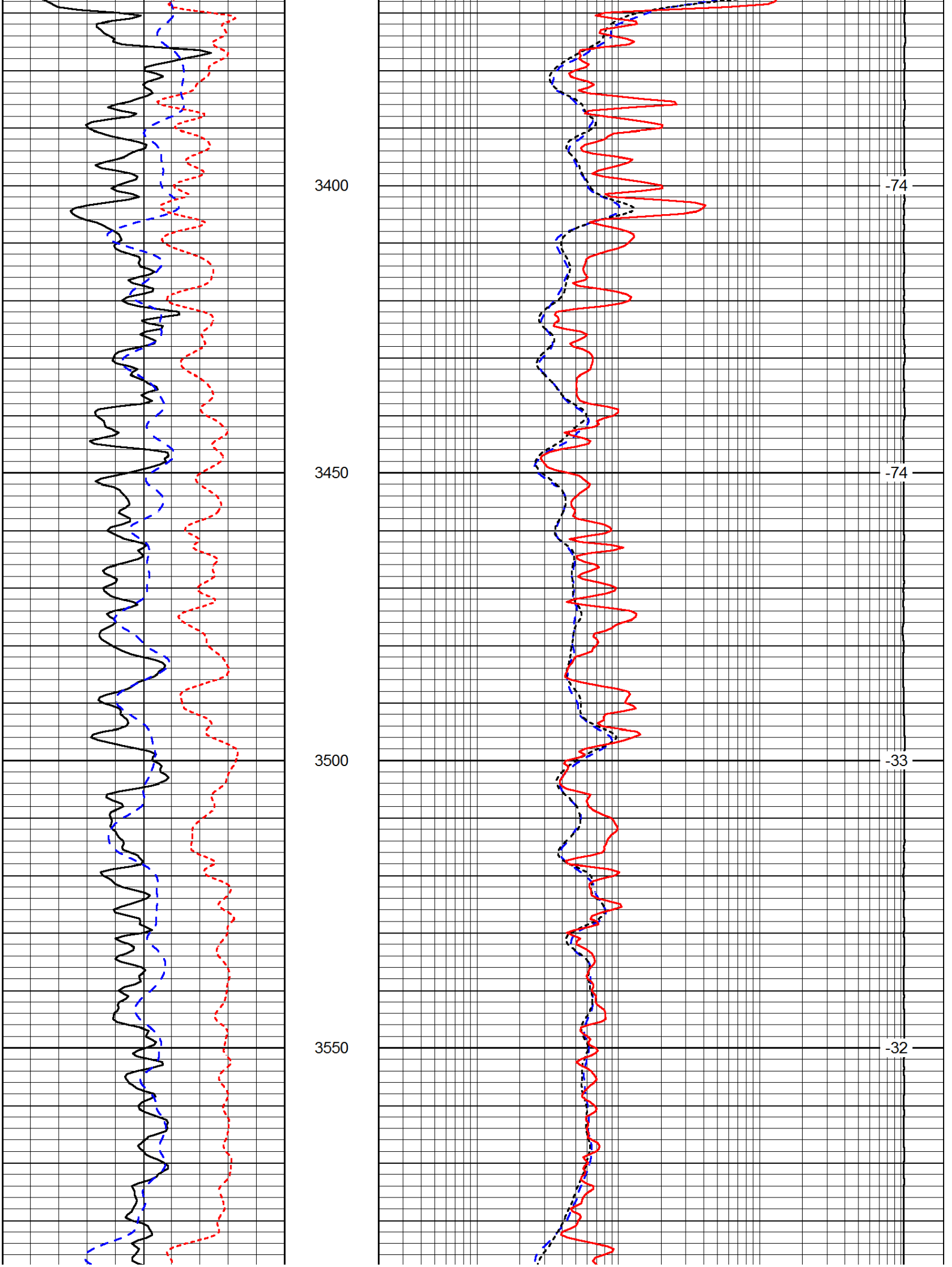
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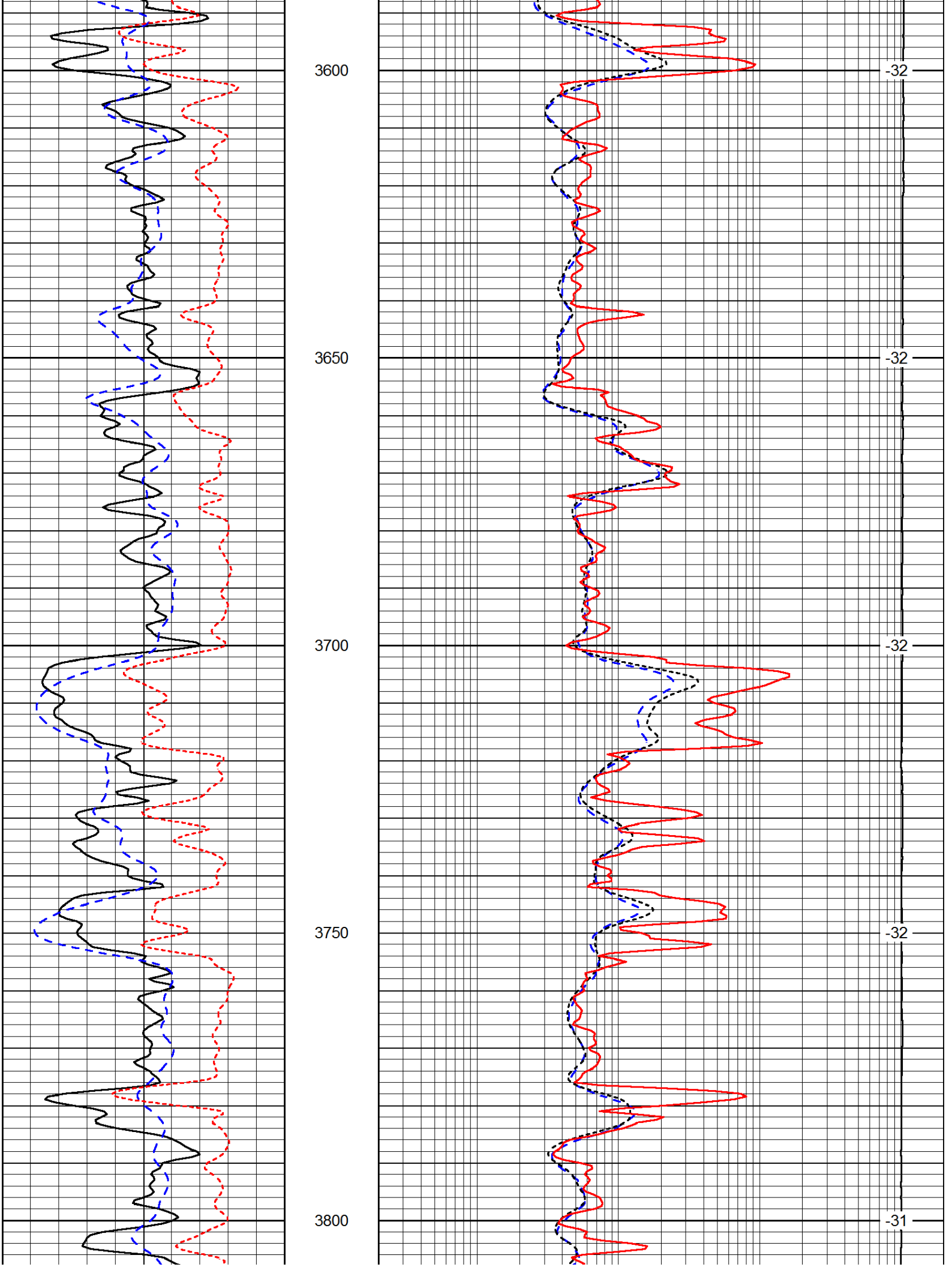
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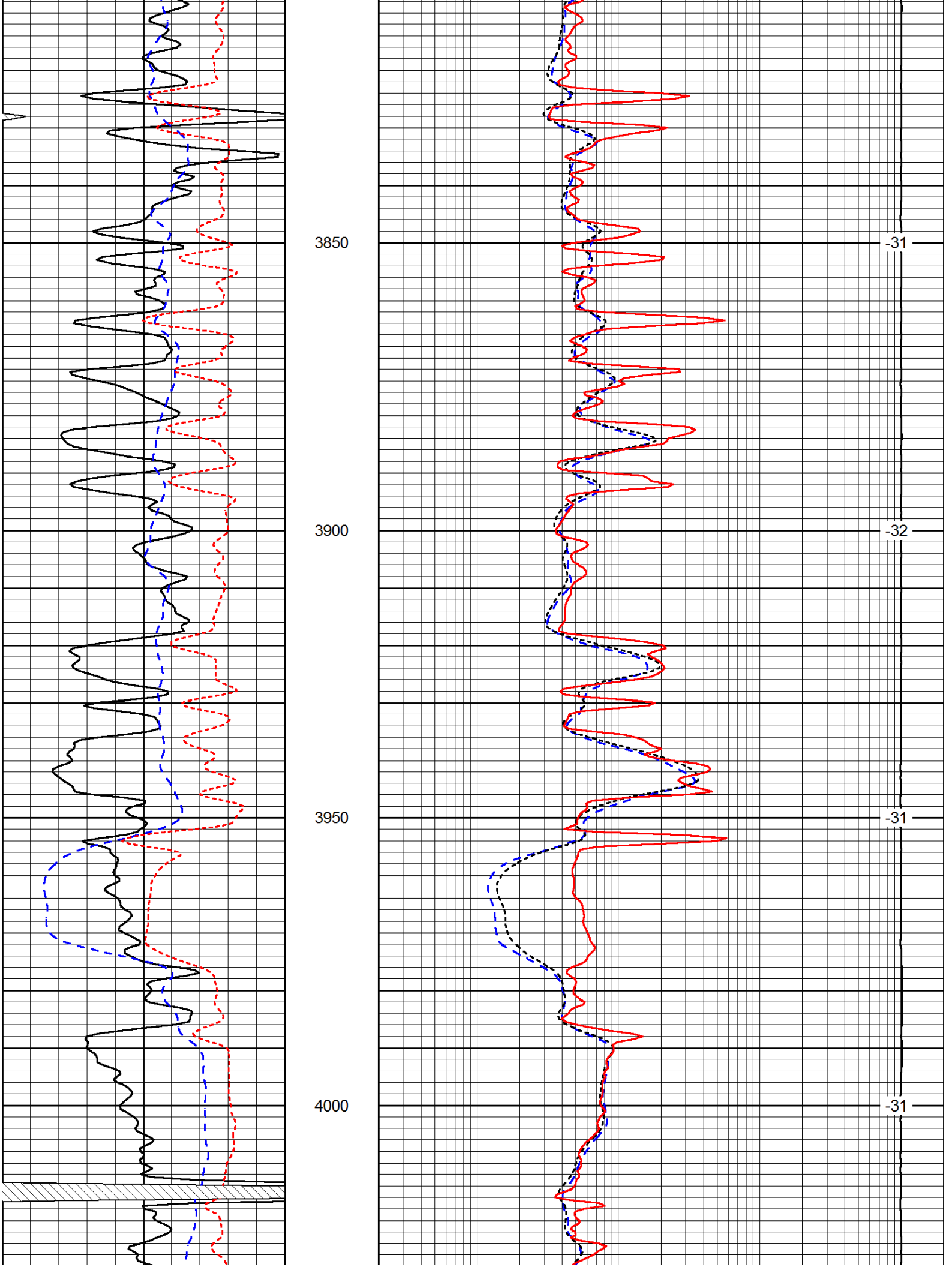
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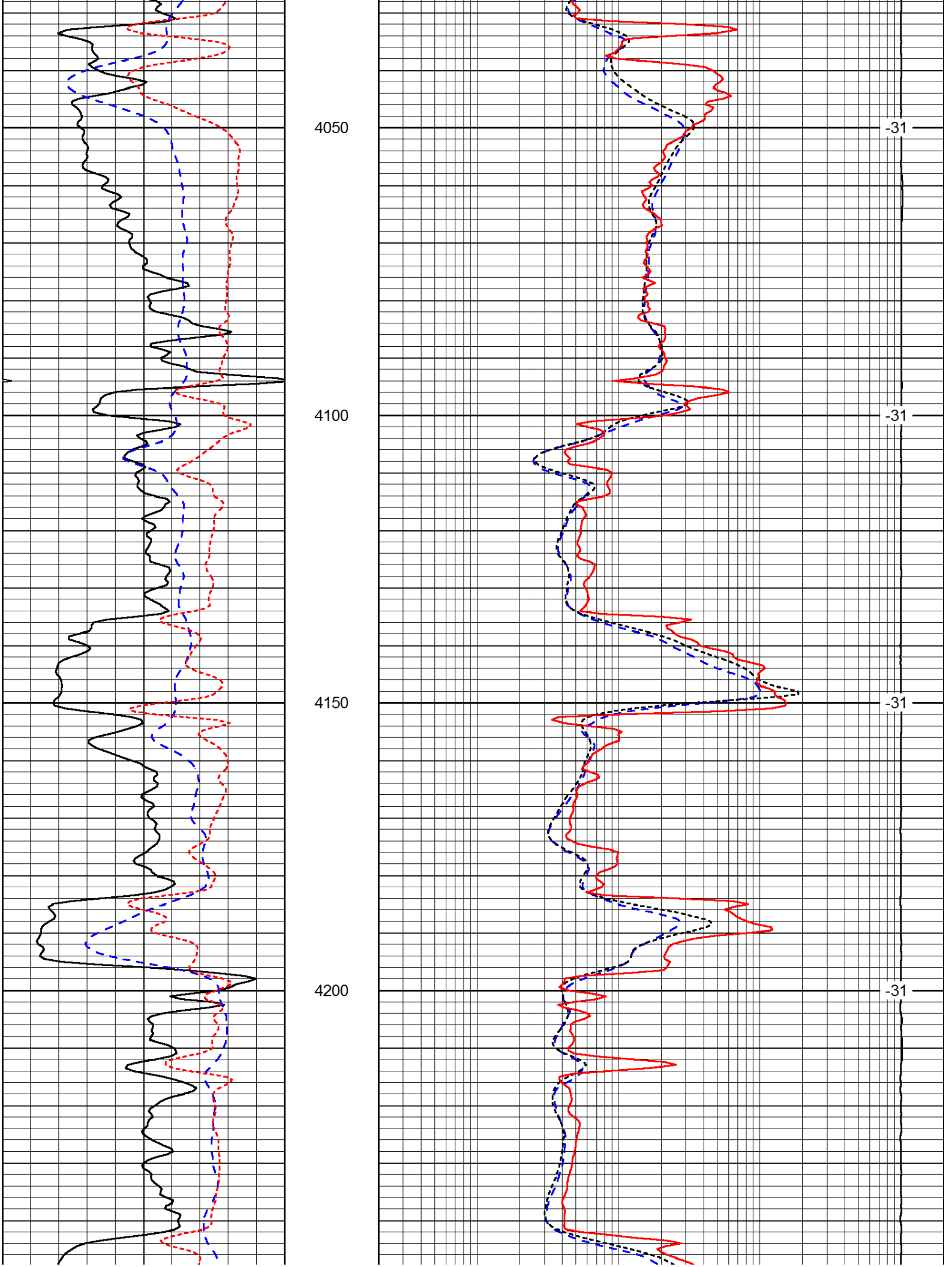
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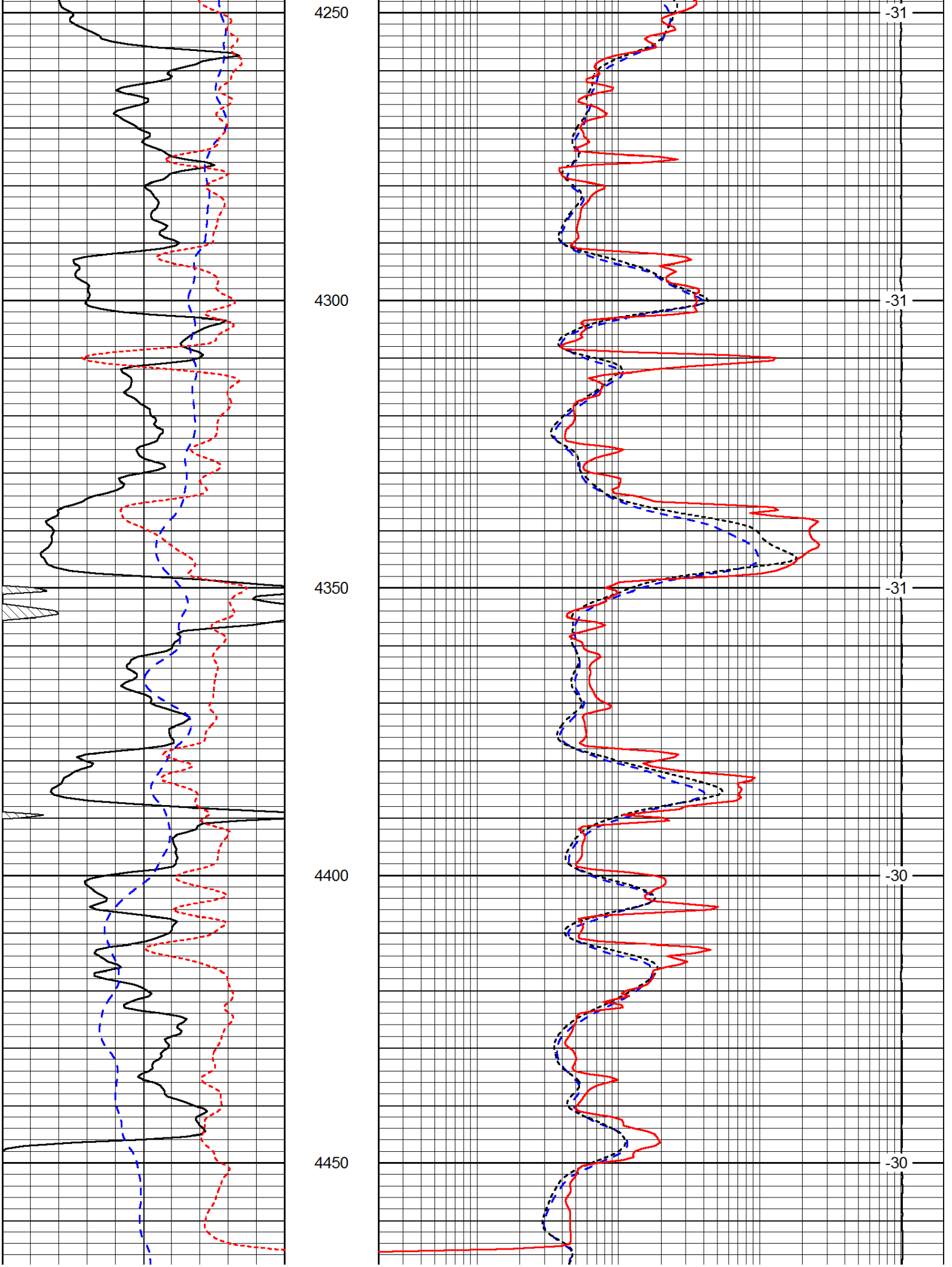
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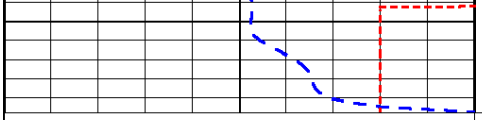

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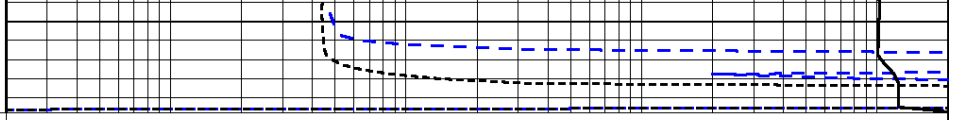
-200	SP (mV)	0
-160	RxoRt	40



0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
15000	Line Tension	0

LSPD