HALLIBURTON

Sperry Drilling Services

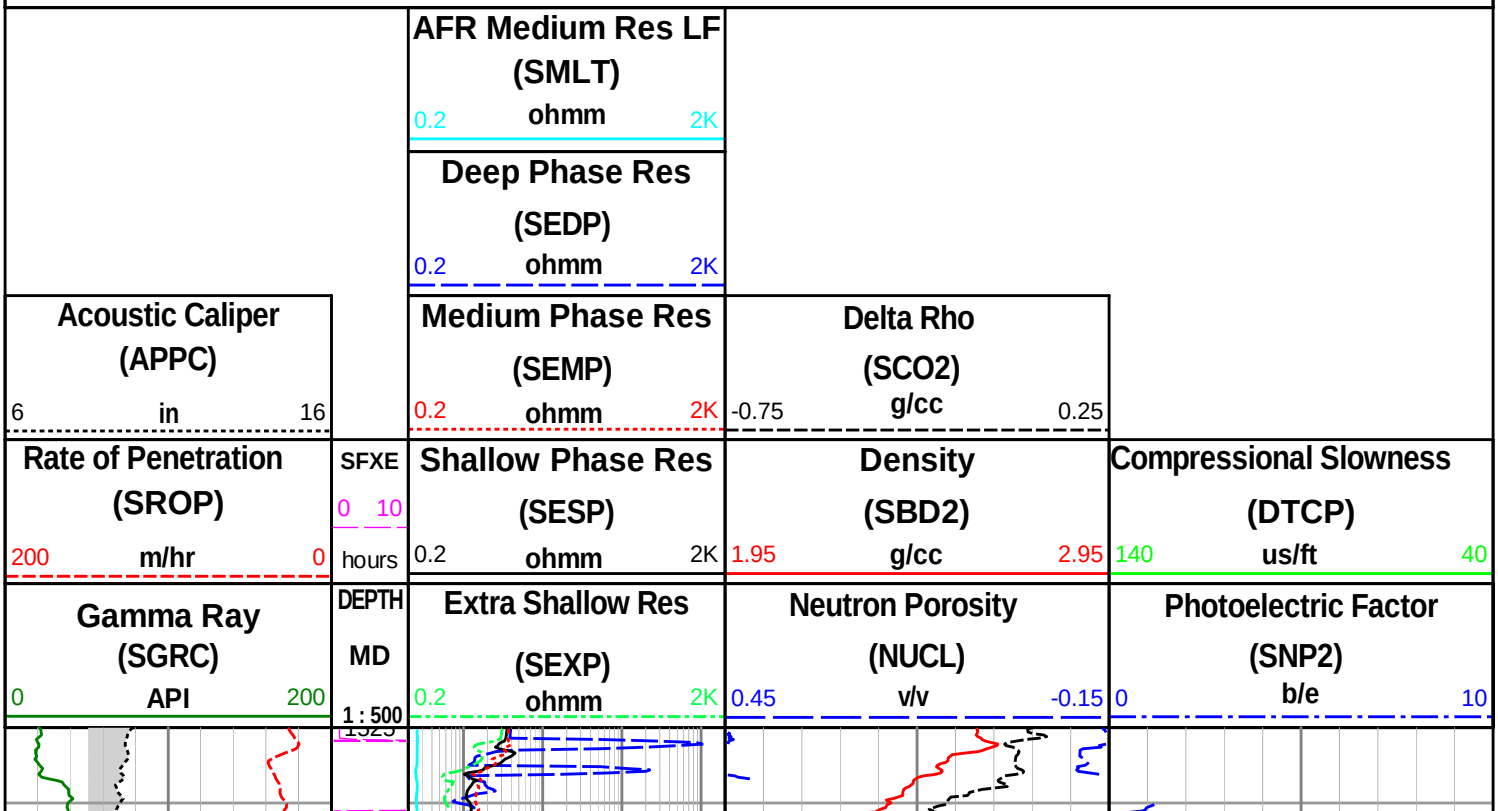
Dory-1
Apache Energy Ltd

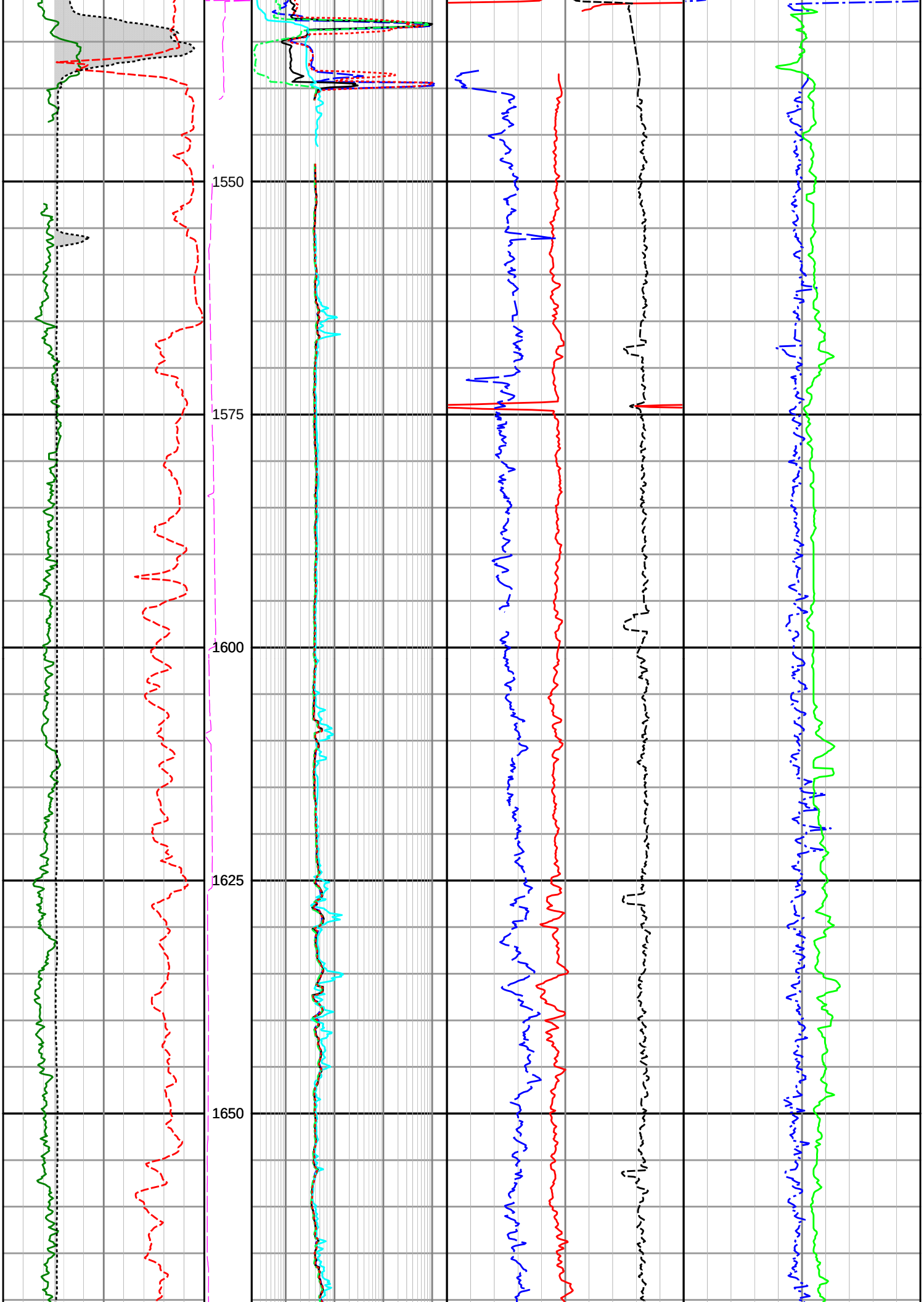
LWD Recorded Data - Field Data
216mm Hole Section

Environmental Parameters:

Hole Size = 216mm, Tool Size = 171mm
Mud Type = Water Based
MW = 1.15 sg
Formation Salinity = 25,000 ppm Cl
Mud Salinity = 48700 - 52100 ppm Cl
Matrix Density = 2.71 g/cc
Fluid Density = 1.00 g/cc
Rm = 0.09 ohmm @ 21.1°C
Rmf = 0.06 ohmm @ 21.1°C
Rmc = 0.13 ohmm @ 21.1°C

Remarks:
1. Gamma Ray and Neutron Porosity have been environmentally corrected using the listed parameters where appropriate, and processed using borehole size from ACAL tool.
2. Depth sensor changed from geolograph to draw-works encoder for interval from 1556 - 2258 mMDRT. This does not account for movement of the top drive compensator.
3. Data gap from 1545 - 1553 mMDRT due to geolograph line failure.
4. AFR tool failure at 1864 m MDRT during run 300.
5. Recorded AFR data presented from 2776.9 - 2899.9 mMDRT during MAD run 400.
6. Recorded data unavailable for EWR / AFR / CNP / DGR sensors for run 400 due to tool failure.

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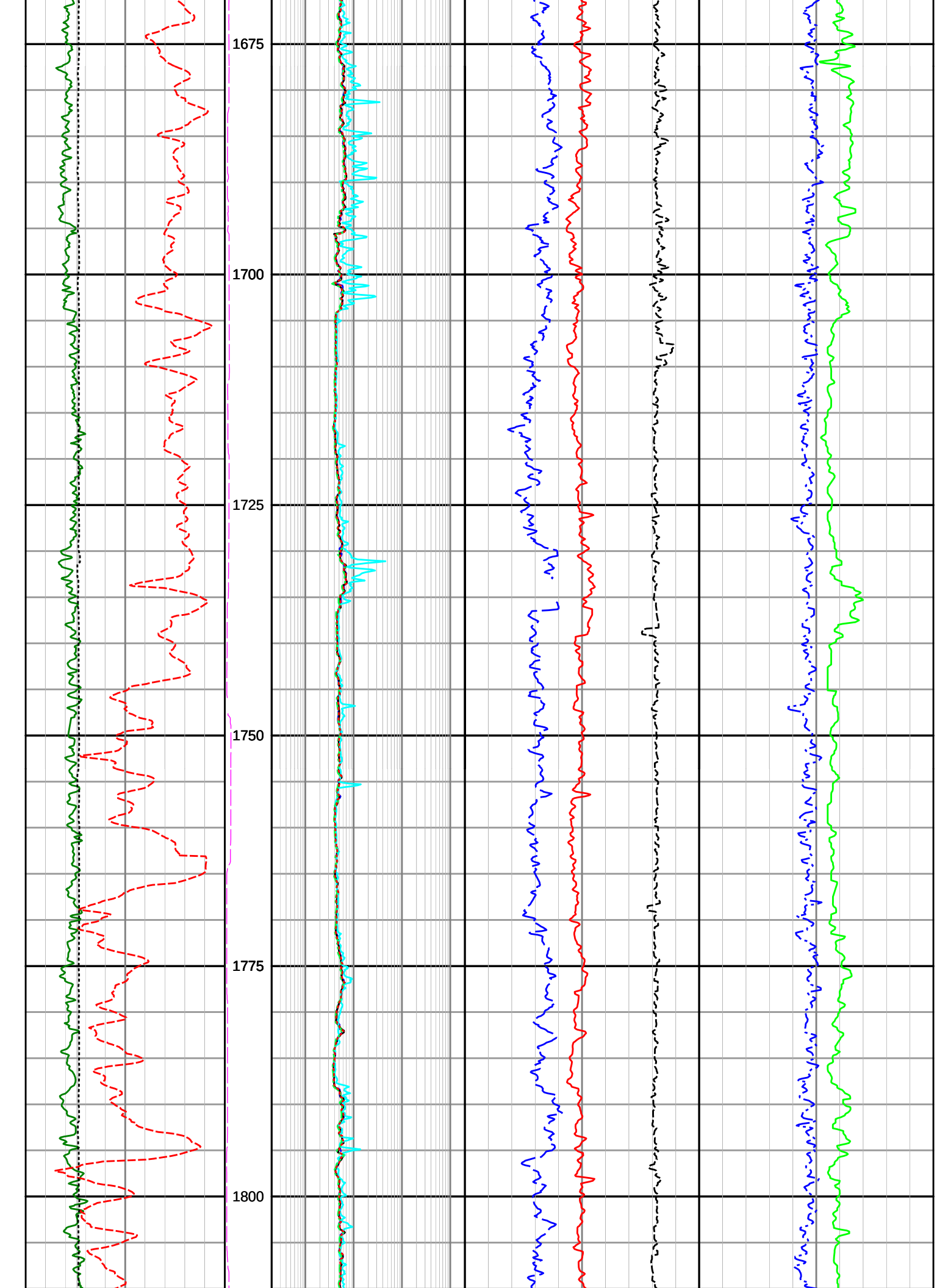
1625
1650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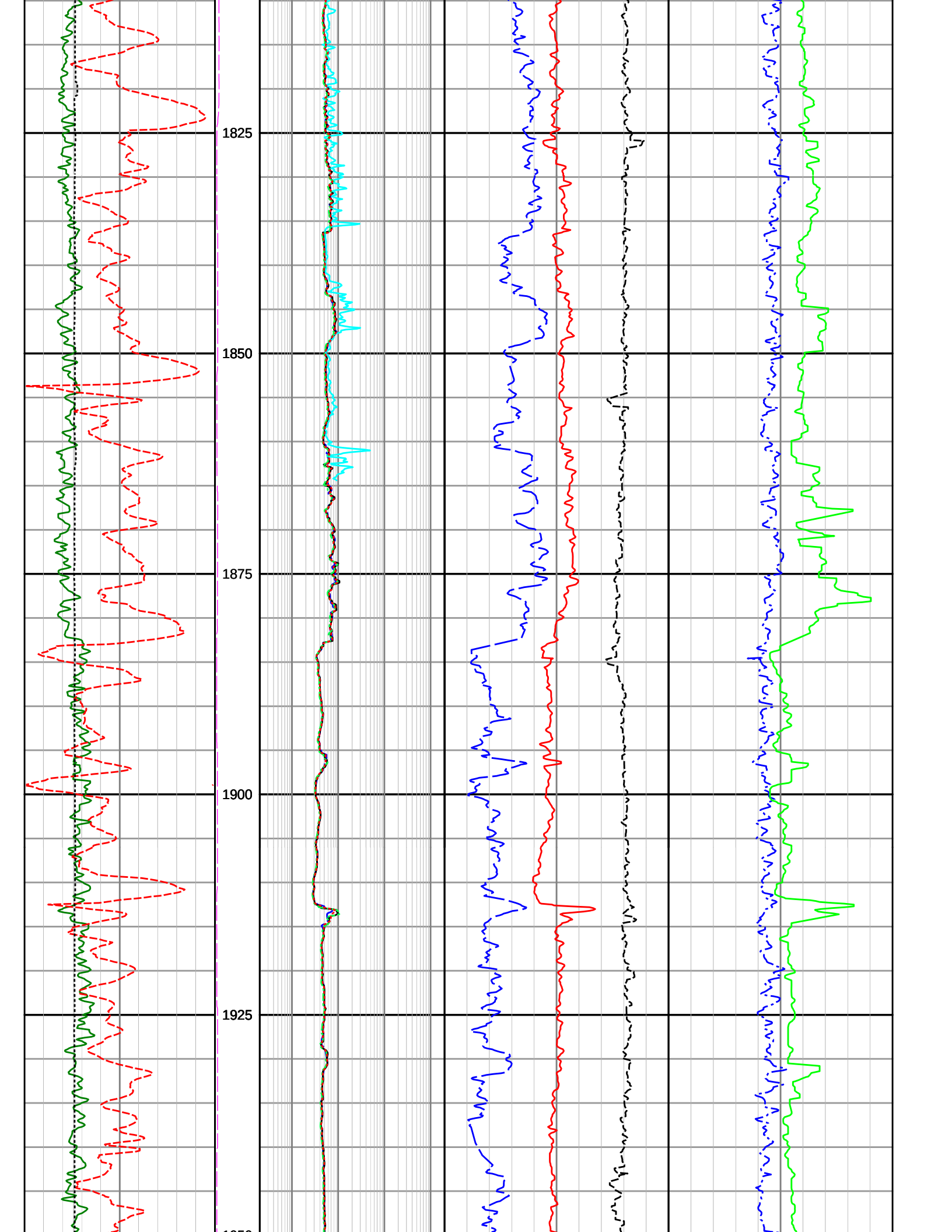
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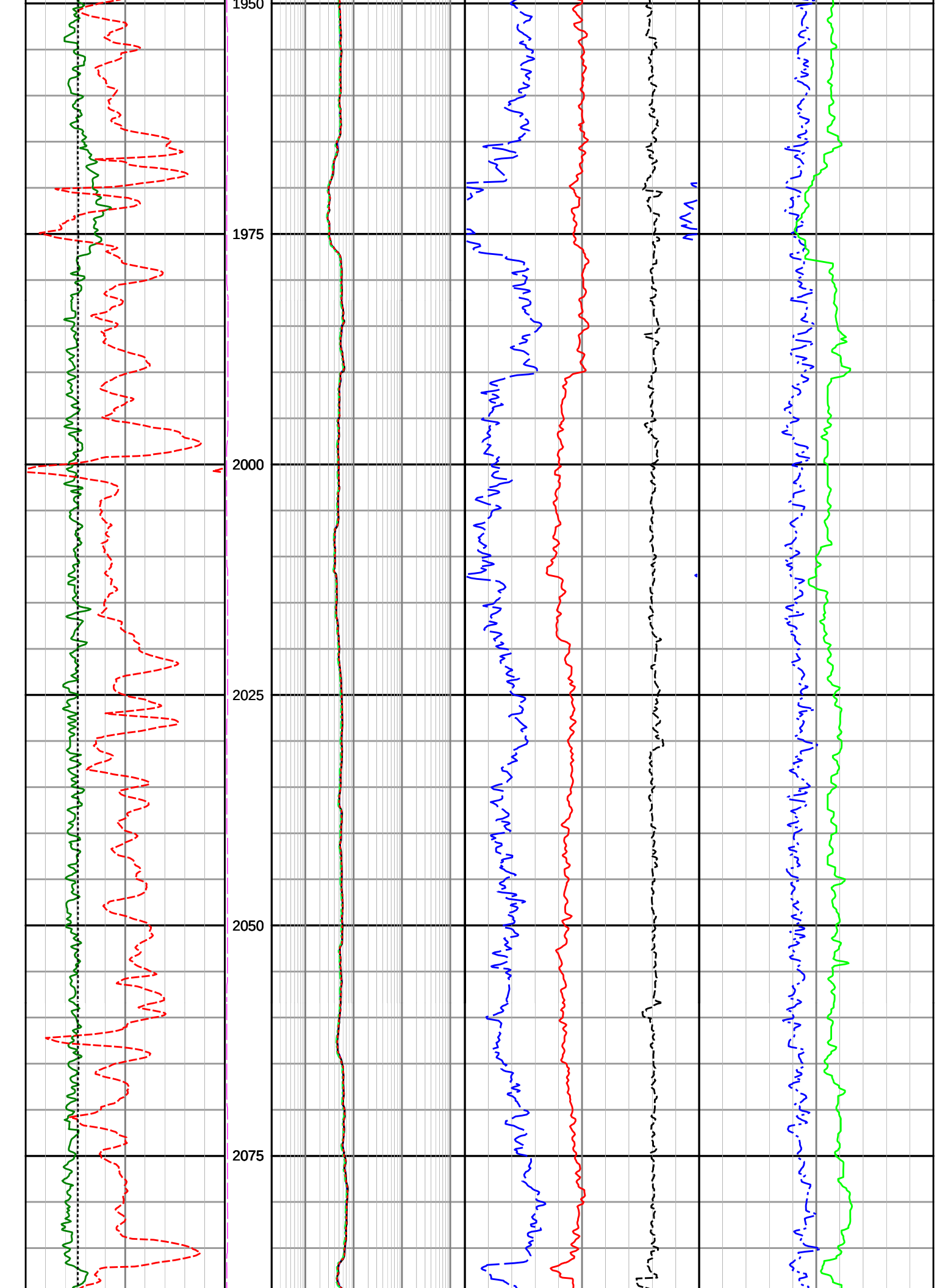
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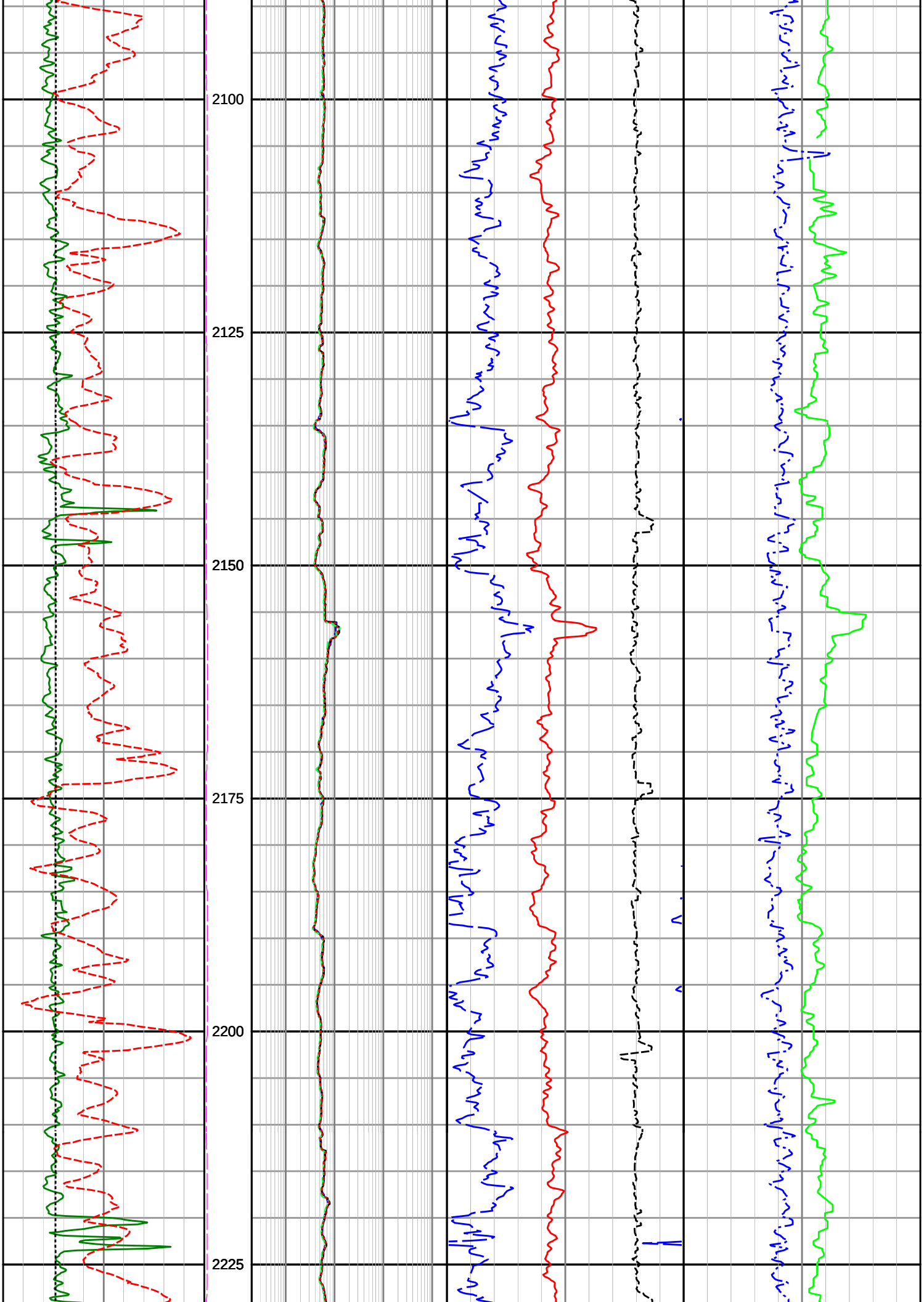
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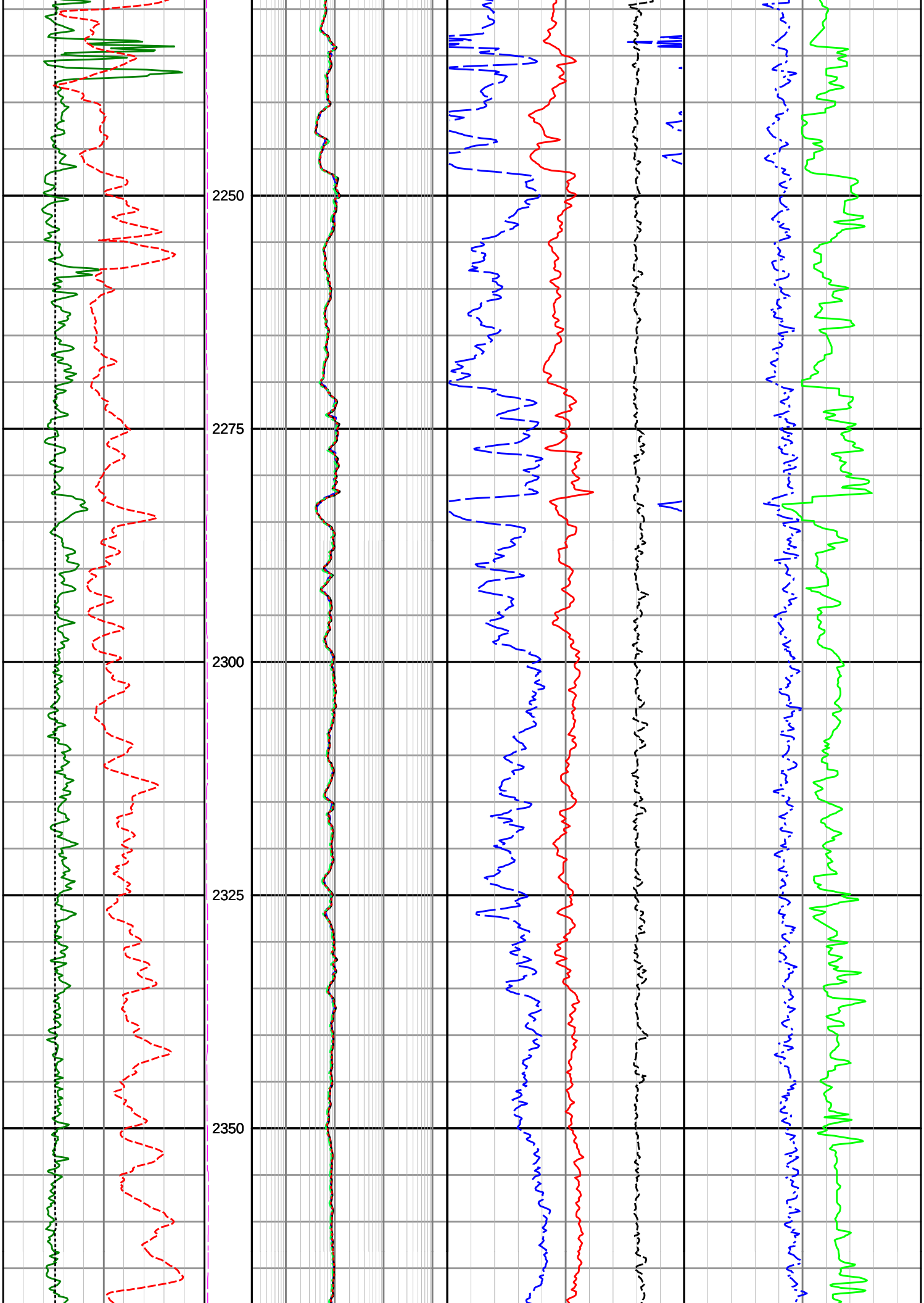
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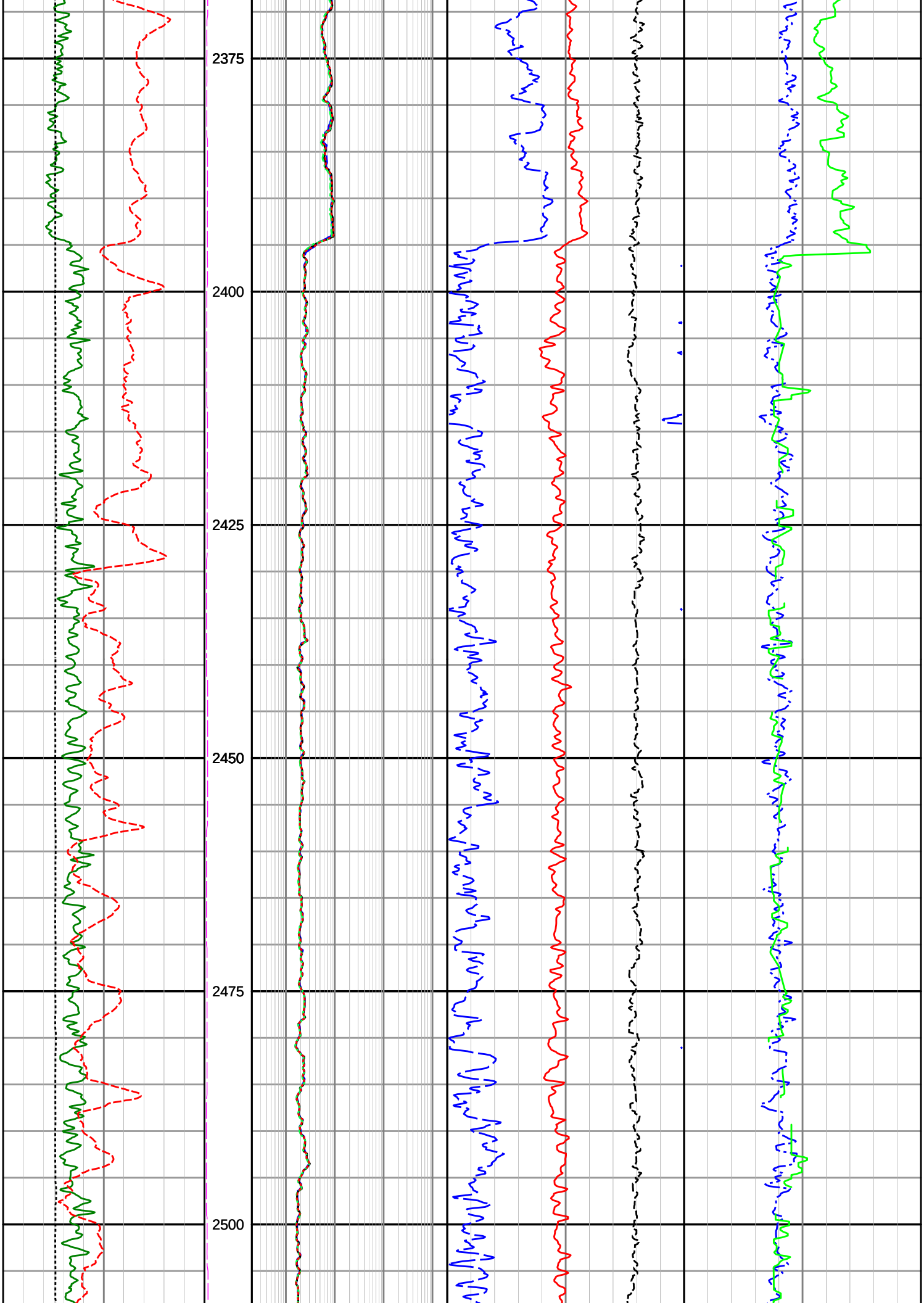
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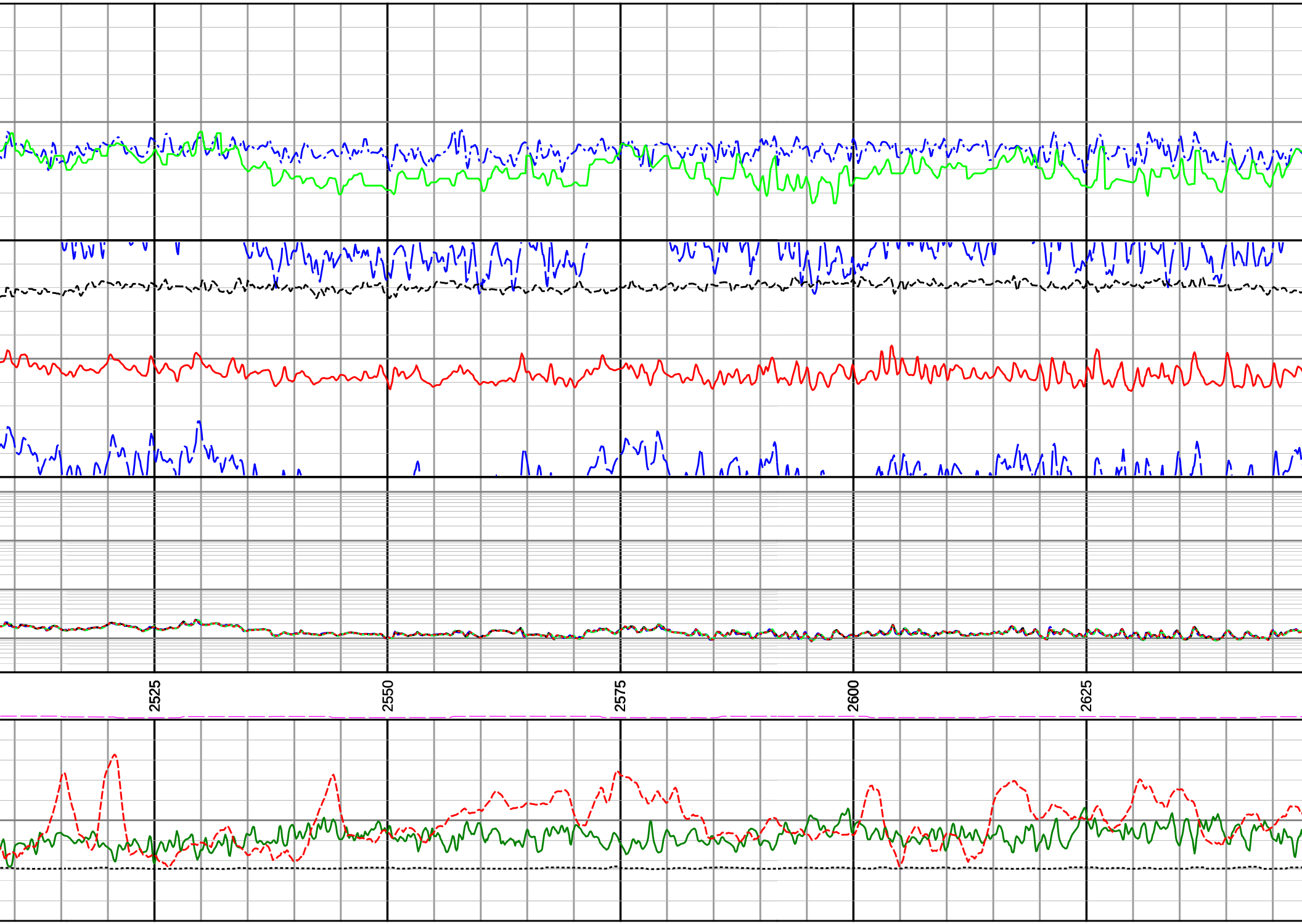
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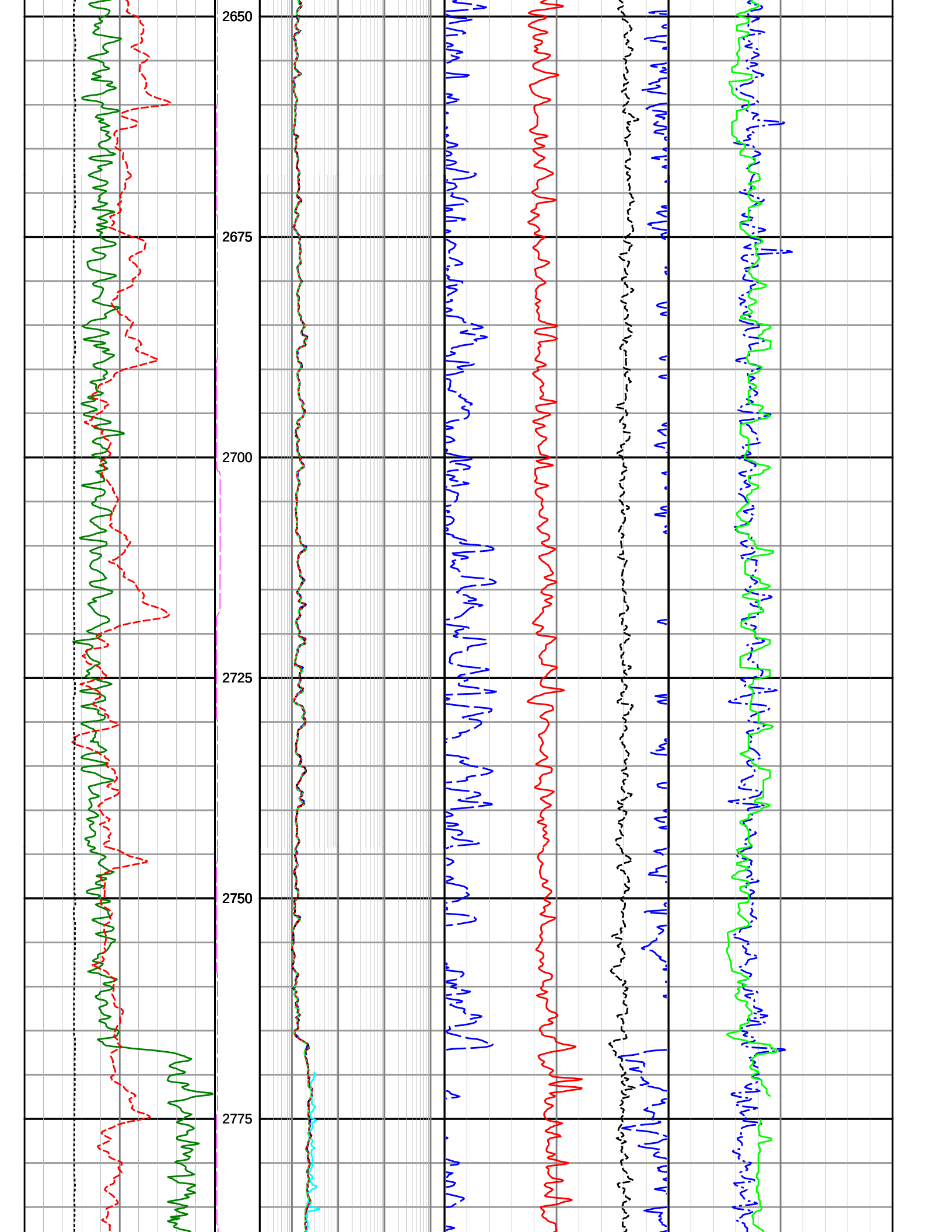
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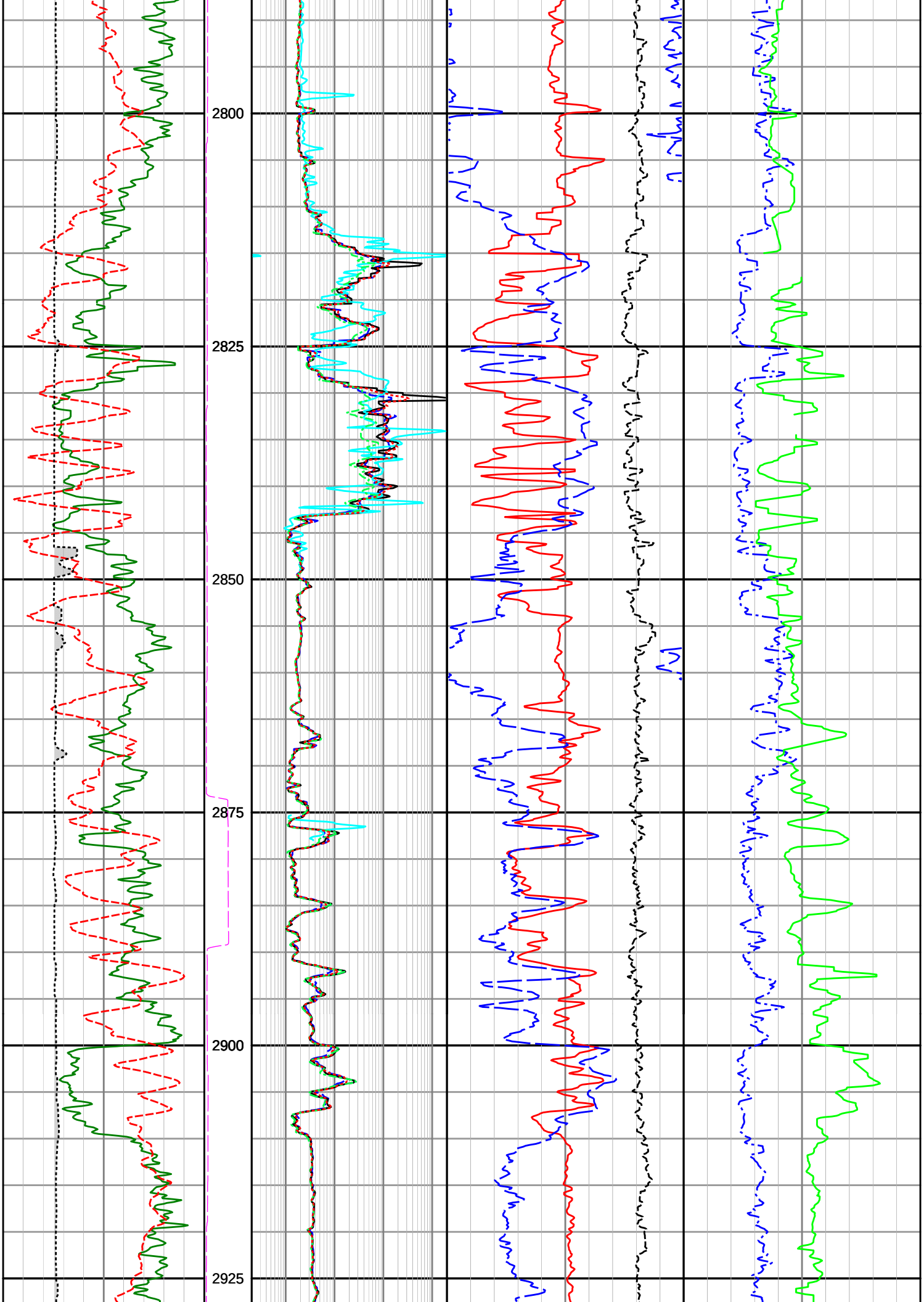
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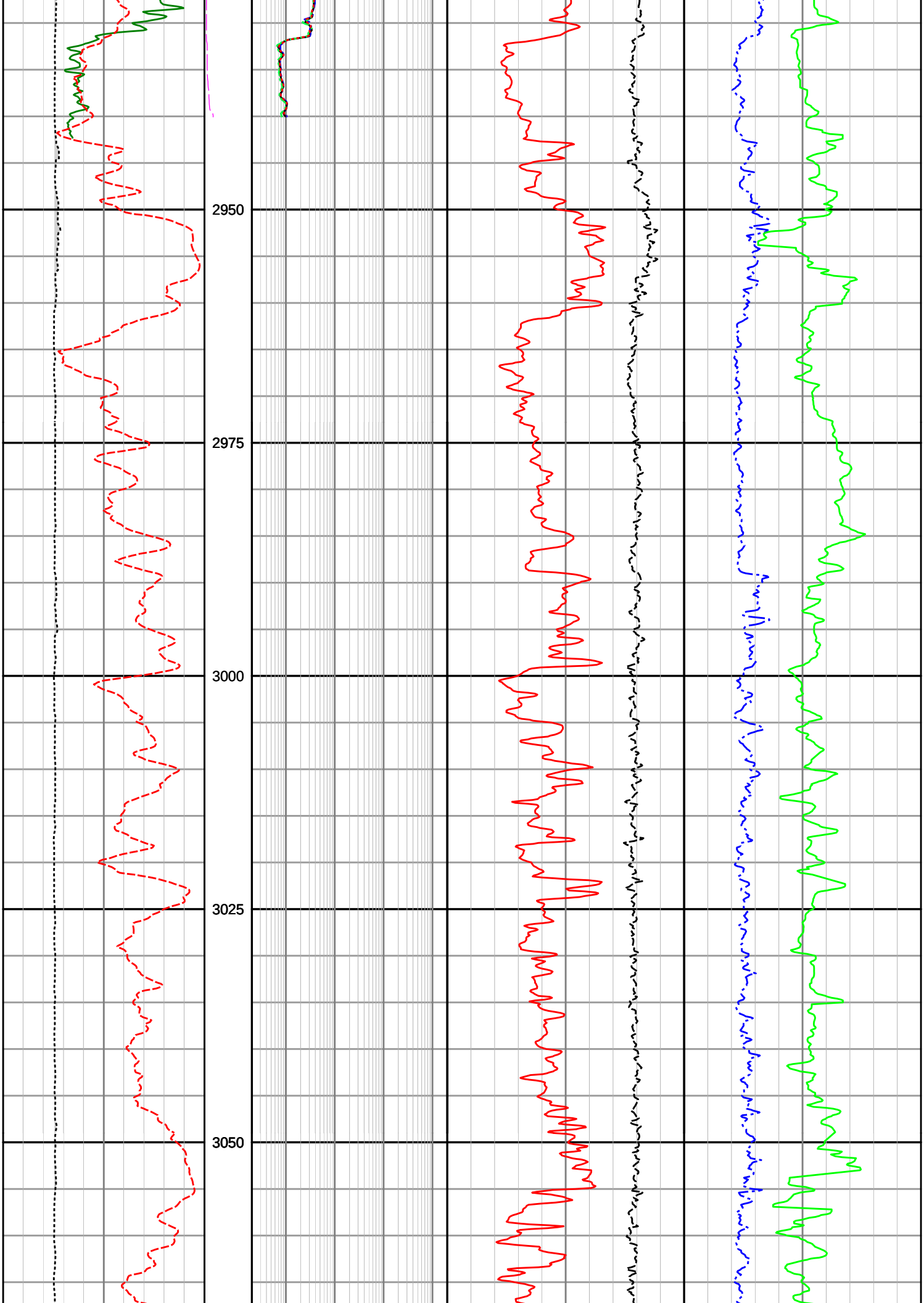
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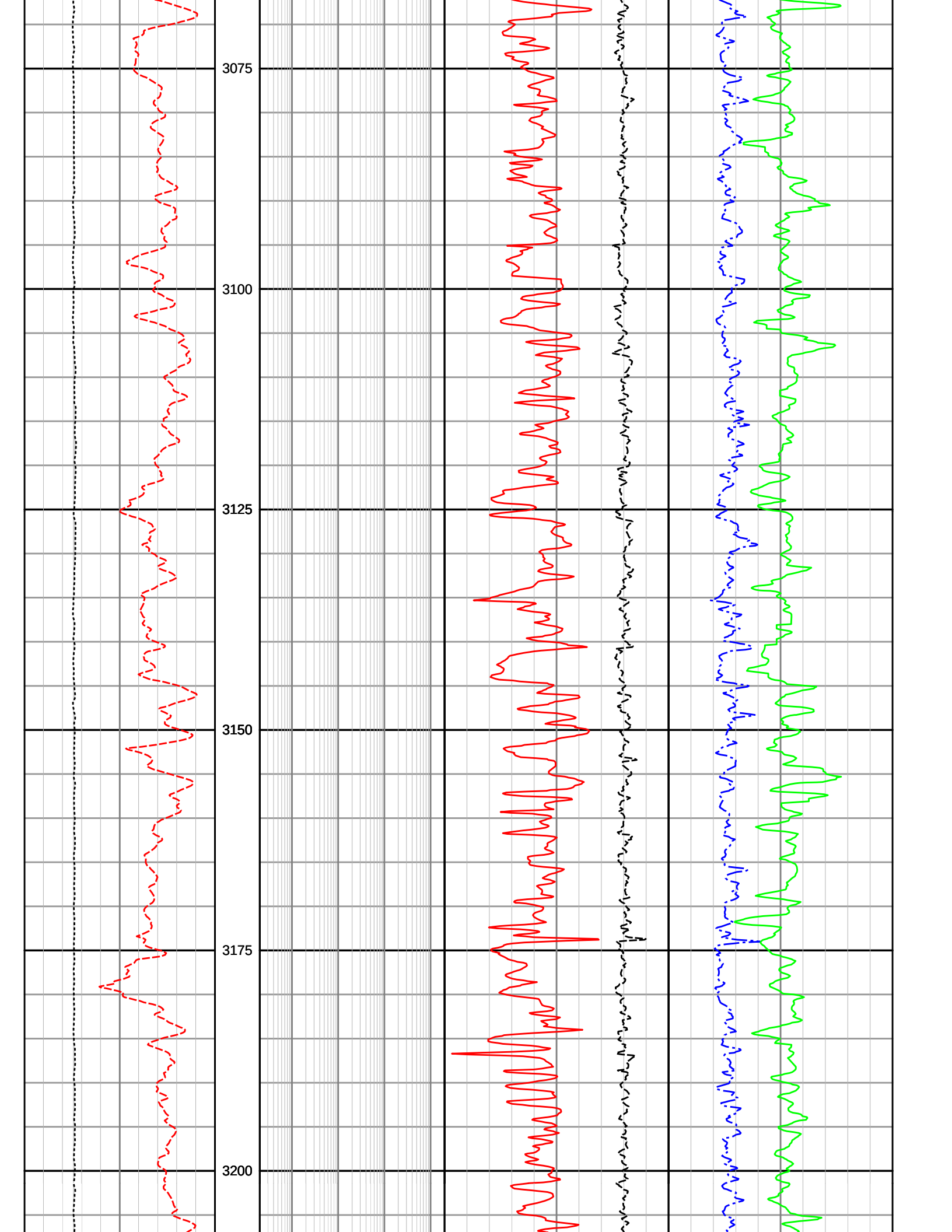
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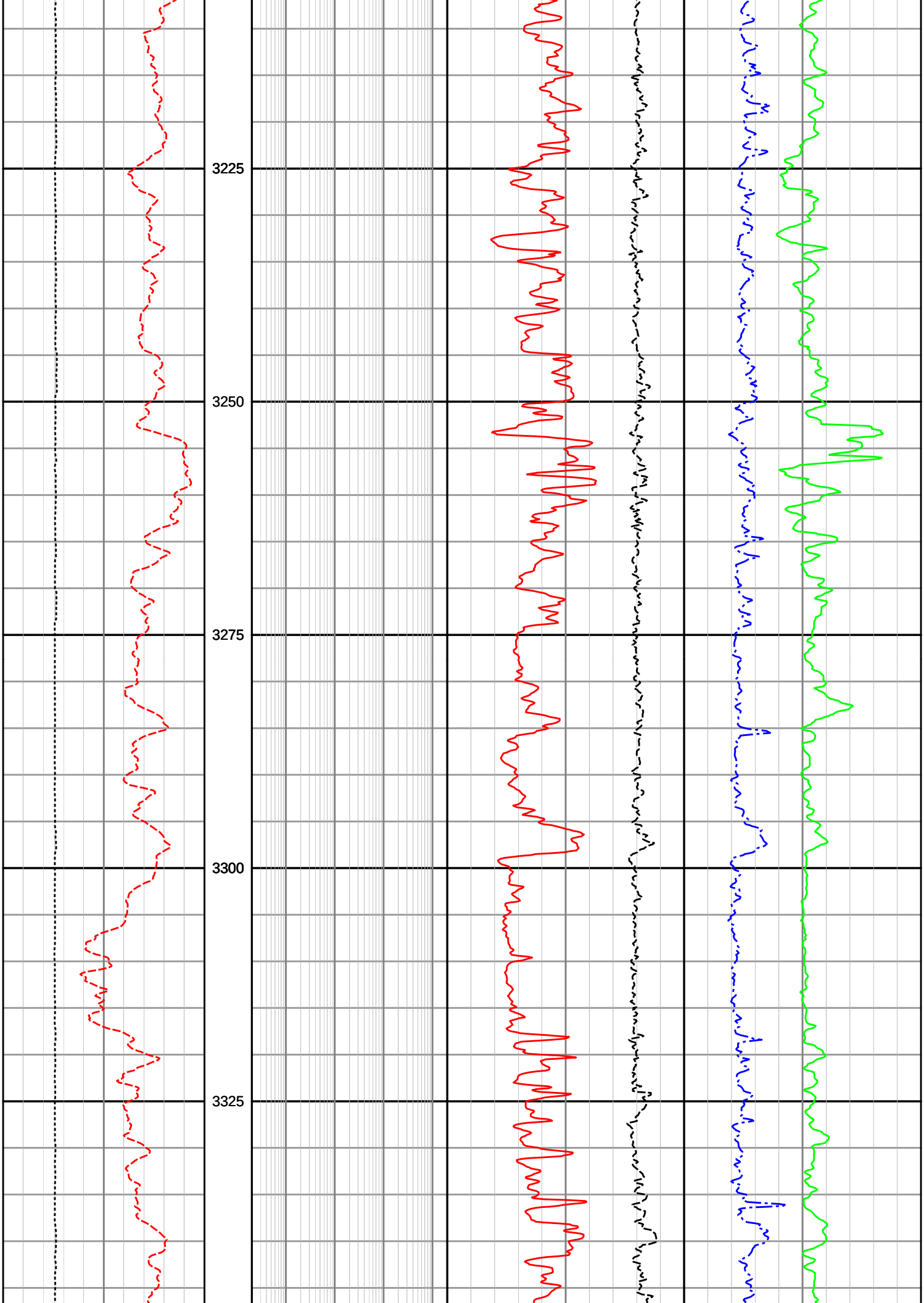
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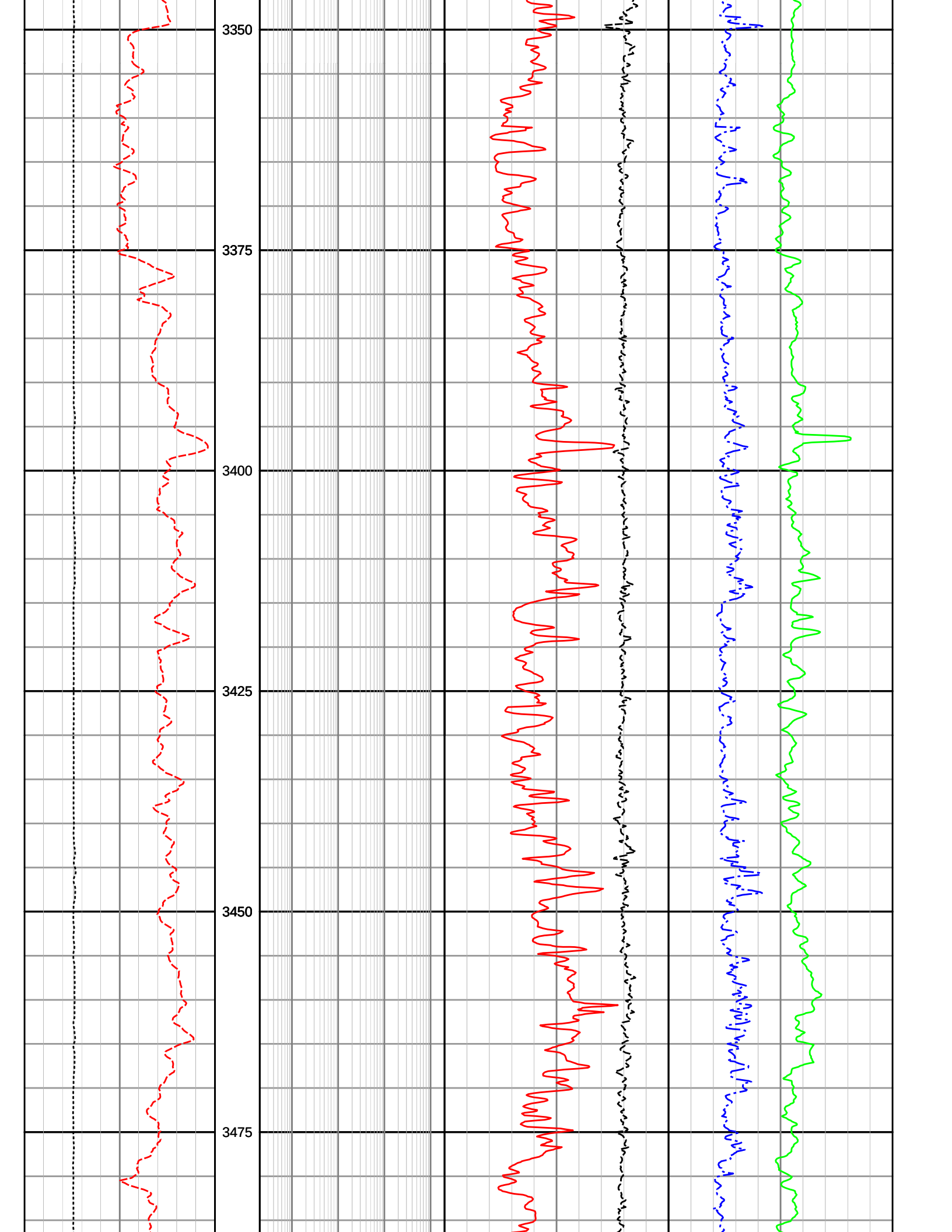
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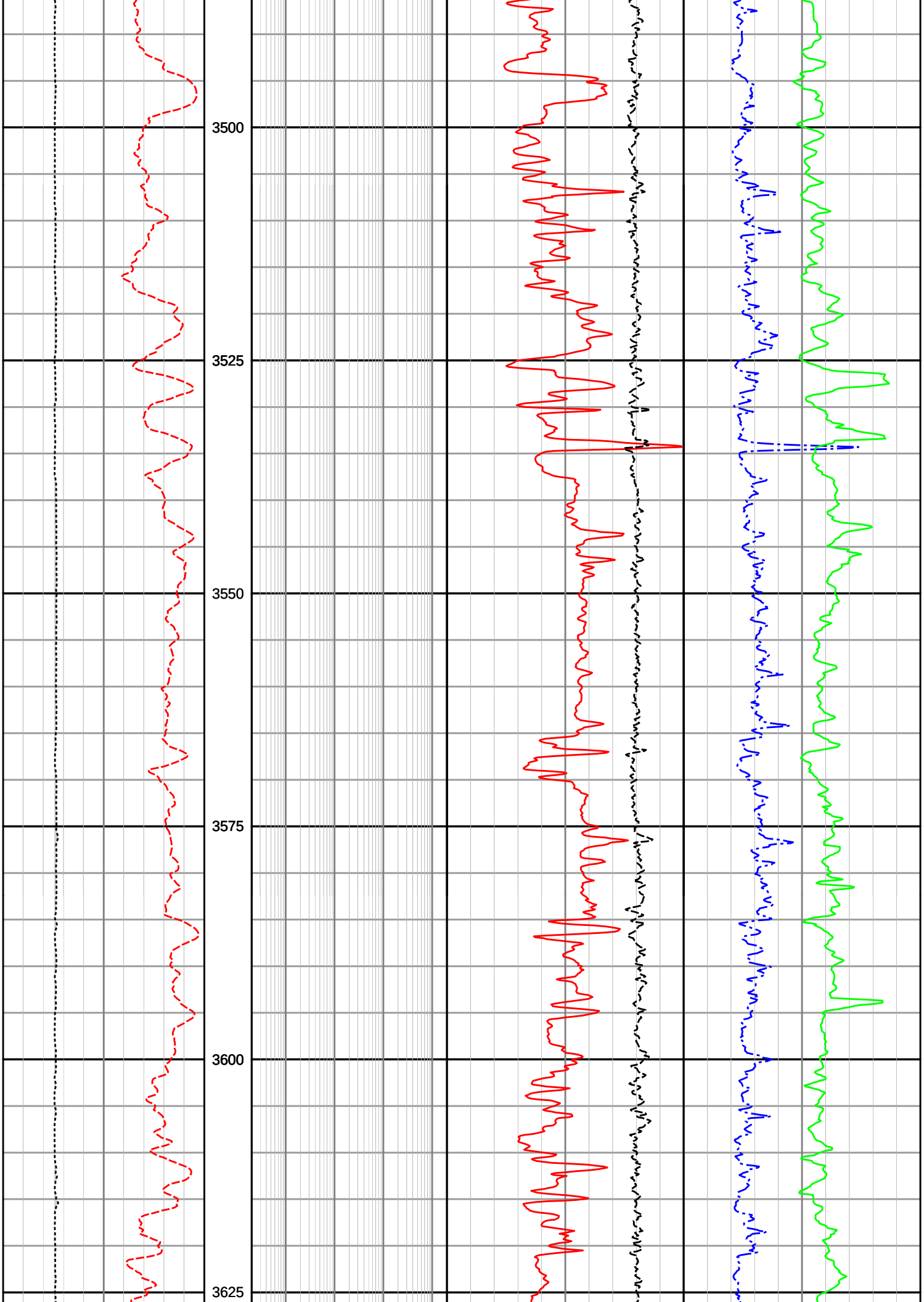
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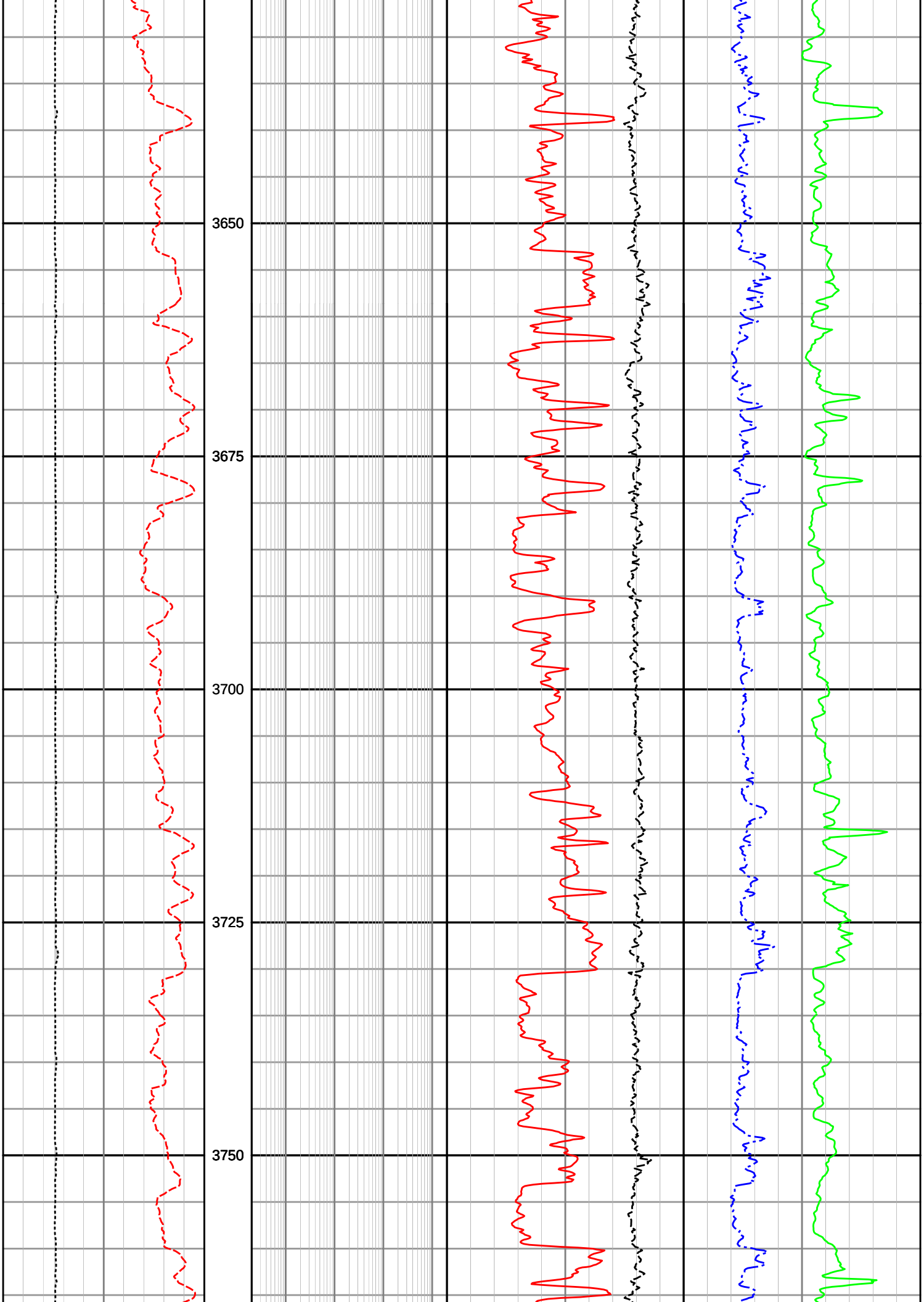
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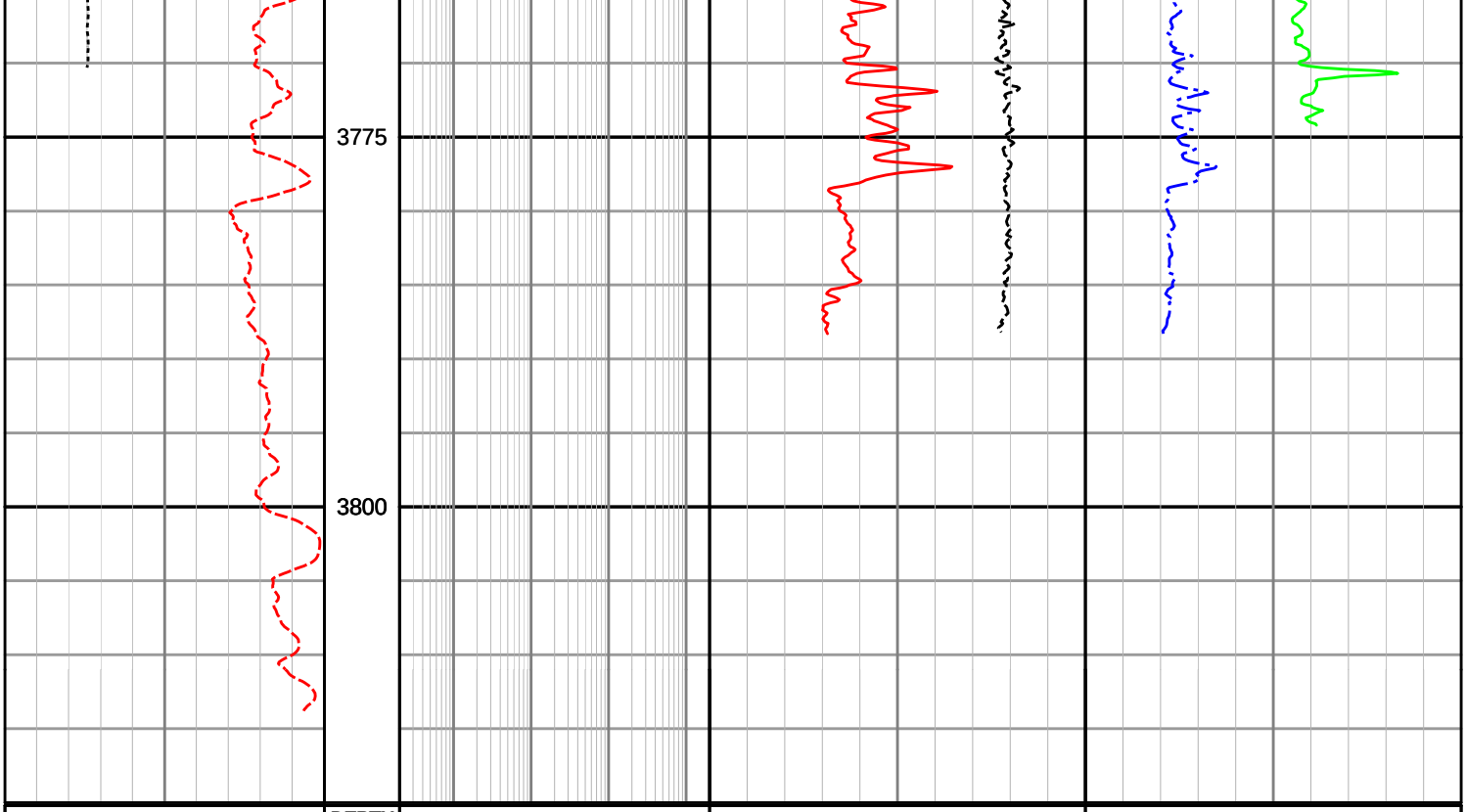

Gamma Ray (SGRC)	DEPTH	Extra Shallow Res (SEXP)	Neutron Porosity (NUCL)	Photoelectric Factor (SNP2)
0 API 200	MD	0.2 ohmm 2K	0.45 v/v -0.15	0 b/e 10
	1 : 500			
Rate of Penetration (SROP)	**SFXE**	**Shallow Phase Res (SESP)**	**Density (SBD2)**	**Compressional Slowness (DTCP)**
200 m/hr 0	0 10	0.2 ohmm 2K	1.95 g/cc 2.95	140 us/ft 40
	hours			
Acoustic Caliper (APPC)		**Medium Phase Res (SEMP)**	**Delta Rho (SCO2)**	
6 in 16		0.2 ohmm 2K	-0.75 g/cc 0.25	
		Deep Phase Res (SEDP)		
		0.2 ohmm 2K		
		AFR Medium Res LF (SMLT)		
		0.2 ohmm 2K		