



Pioneer Energy Services

VDL CCL GAMMA-RAY RADIAL BOND LOG

Company				ENCANA OIL & GAS (USA) INC			
Well				BILLINGS 1A34H			
Field				WATTENBERG			
County				WELD			
State				COLORADO			
Location:				API # : 05123371060000			
Permanent Datum				GL			
Log Measured From				KB			
Drilling Measured From				KB			
SEC 34 TWP 2N RGE 66W				Elevation 4995'			
SHL 236' FNL & 1610' FEL BHL 460' FSL & 2440' FEL				Other Services			
Date				10-23-13			
Run Number				ONE			
Depth Driller				12295'			
Depth Logger				7920'			
Bottom Logged Interval				7910'			
Top Log Interval				10'			
Open Hole Size				8.75"			
Type Fluid				WATER			
Density / Viscosity				NA			
Max. Recorded Temp.				NA			
Estimated Cement Top				3410'			
Time Well Ready				NA			
Time Logger on Bottom				NA			
Equipment Number				9605			
Location				FT MORGAN			
Recorded By				TODD YOUNG			
Witnessed By				DENNIS ZAROSKY			
Borehole Record				Tubing Record			
Run Number				Bit			
From				To			
Size				Weight			
From				To			
Casing Record				Size			
Surface String				Wgt/Ft			
Prot. String				Top			
Production String				Bottom			
Liner				7"			
				26#			
				SURFACE			
				7937'			

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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

SO # 2-204843

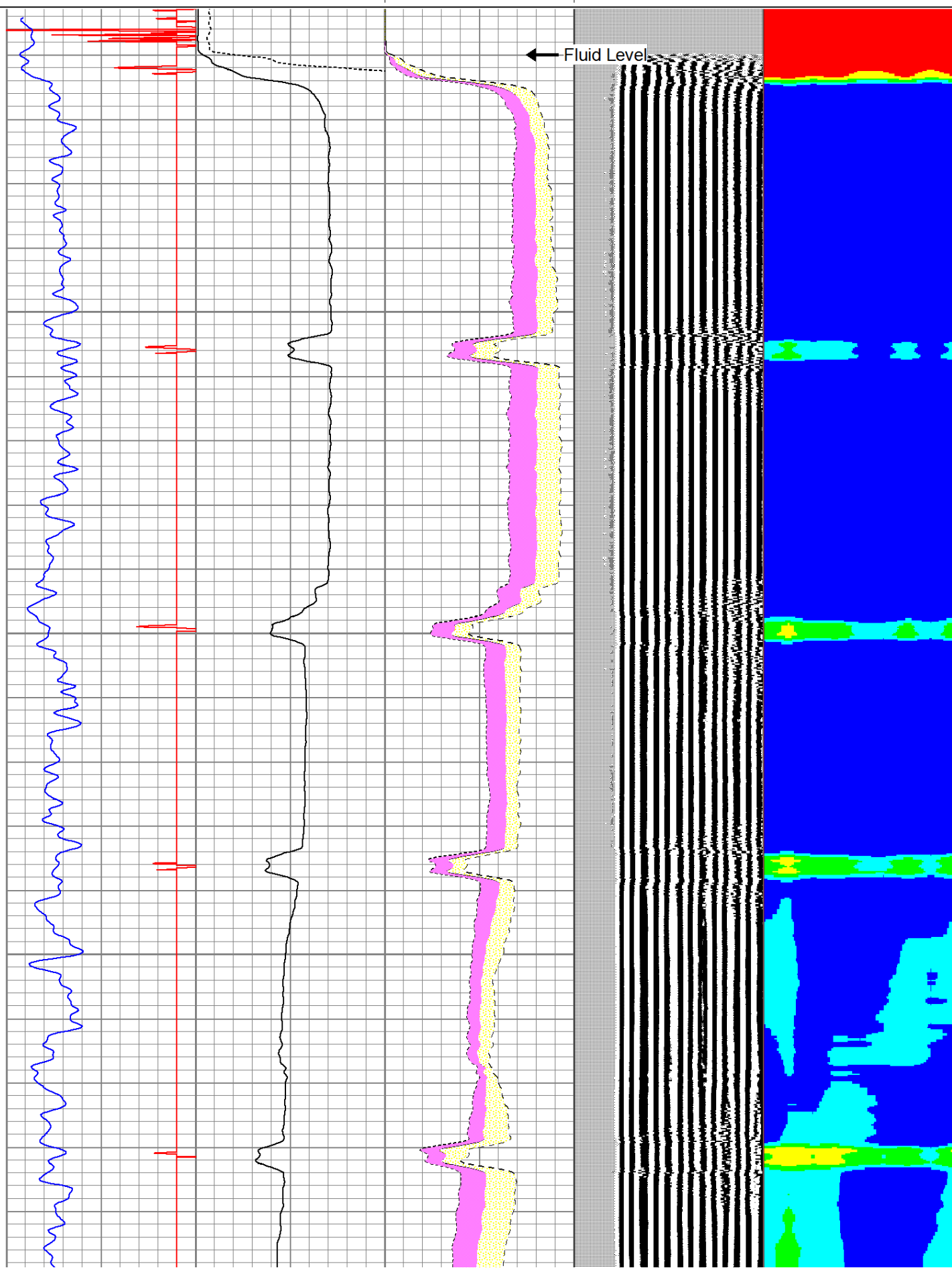
THANK YOU FOR USING
PIONEER ENERGY SERVICES

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)

Tool Name	Start Depth (ft)	End Depth (ft)	Tool Description	Length (ft)	Weight (lb)	O.D. (in)
PTS275	13.52	12.43	Probe Radii Bond Tool with Digital Telemetry	8.92	2.75	90.00
WVFCAL	13.52	13.52				
WVFS1	13.52	13.52				
WVFS2	13.52	13.52				
WVFS3	13.52	13.52				
WVFS4	13.52	13.52				
WVFS5	13.52	13.52				
WVFS6	13.52	13.52				
WVFS7	13.52	13.52				
WVFS8	13.52	13.52				
WVF5FT	12.43	12.43				
CCL	5.12	5.12				
PTS275	2.83	2.75				
CCL-Probe (081119)	2.02	2.75				
GR	1.13	1.13				
GR-probe 2.75 (120133)	4.33	2.75				
PROBE_GCT						
Dataset: billings 1a-34h.db: field/well/run1/pass4 Total Length: 20.93 ft Total Weight: 190.00 lb O.D.: 2.75 in						

-9	CCL	1	0	AMP (mV)	100	0	AMPAVG	150	200	VDL	1200	1	SECTOR MAP	8
0	GR (GAPI)	200	0	AMPx5 (mV)	20	0	AMPMAX	150				25		75
						0	AMPMIN	150						

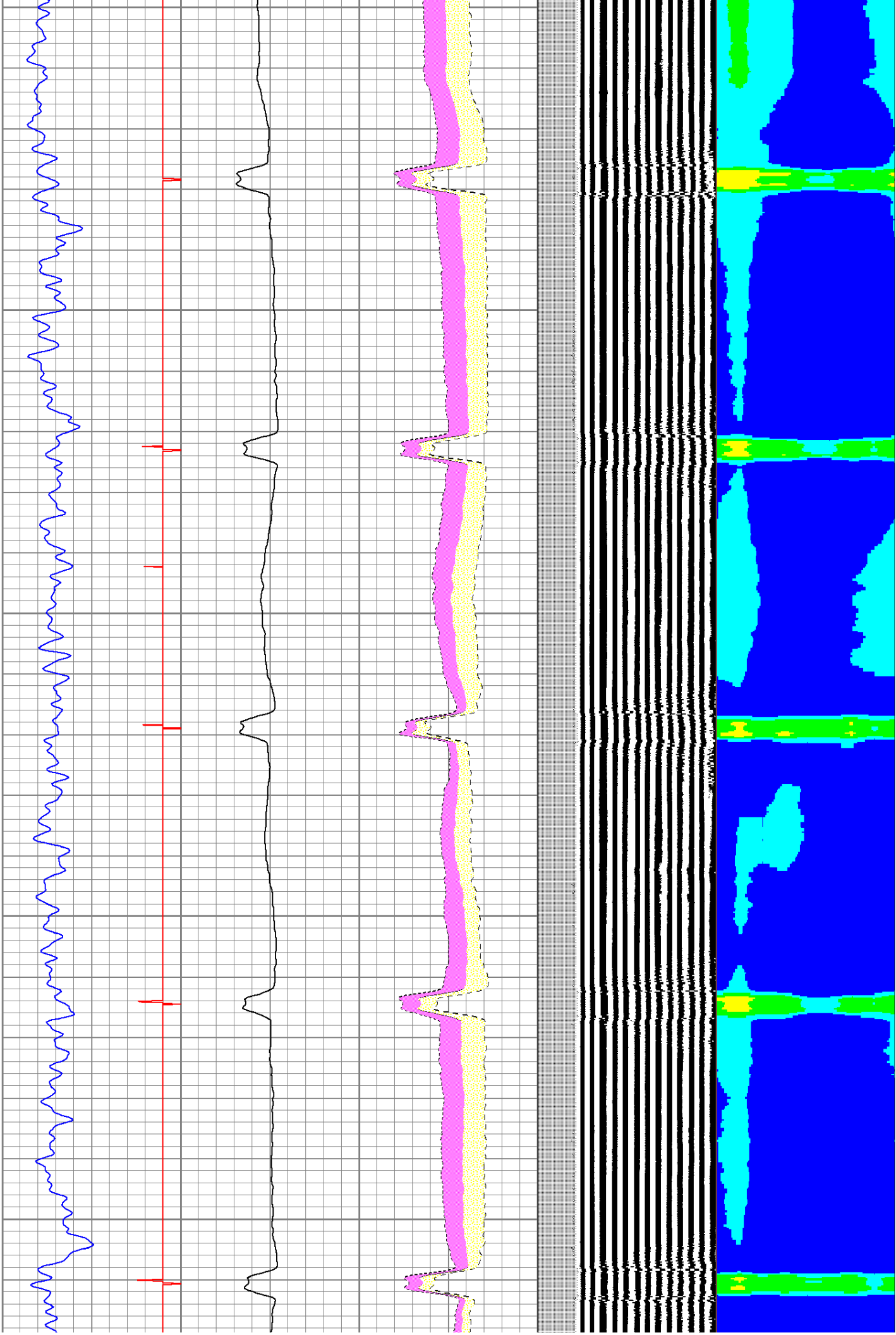
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200

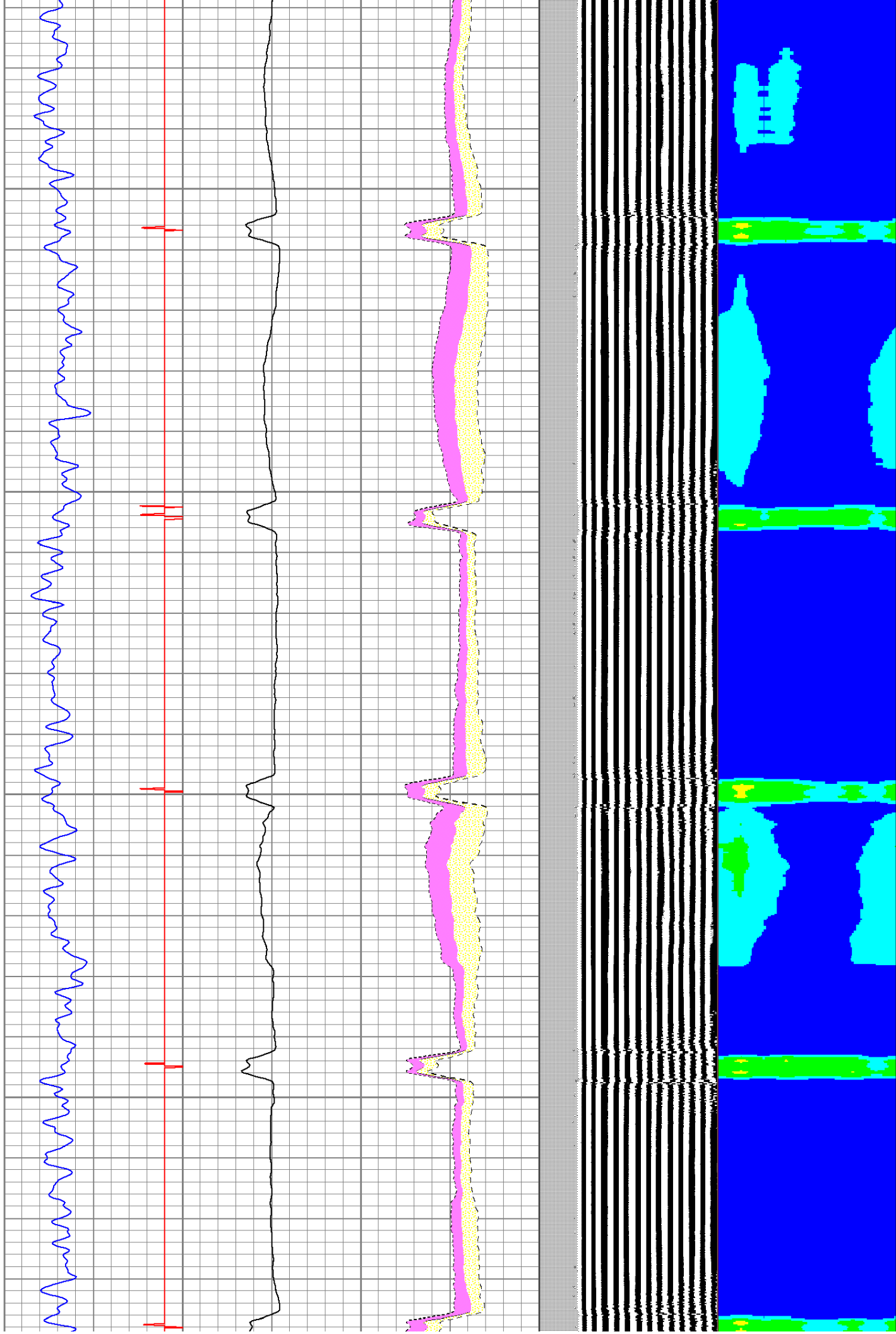
300

400



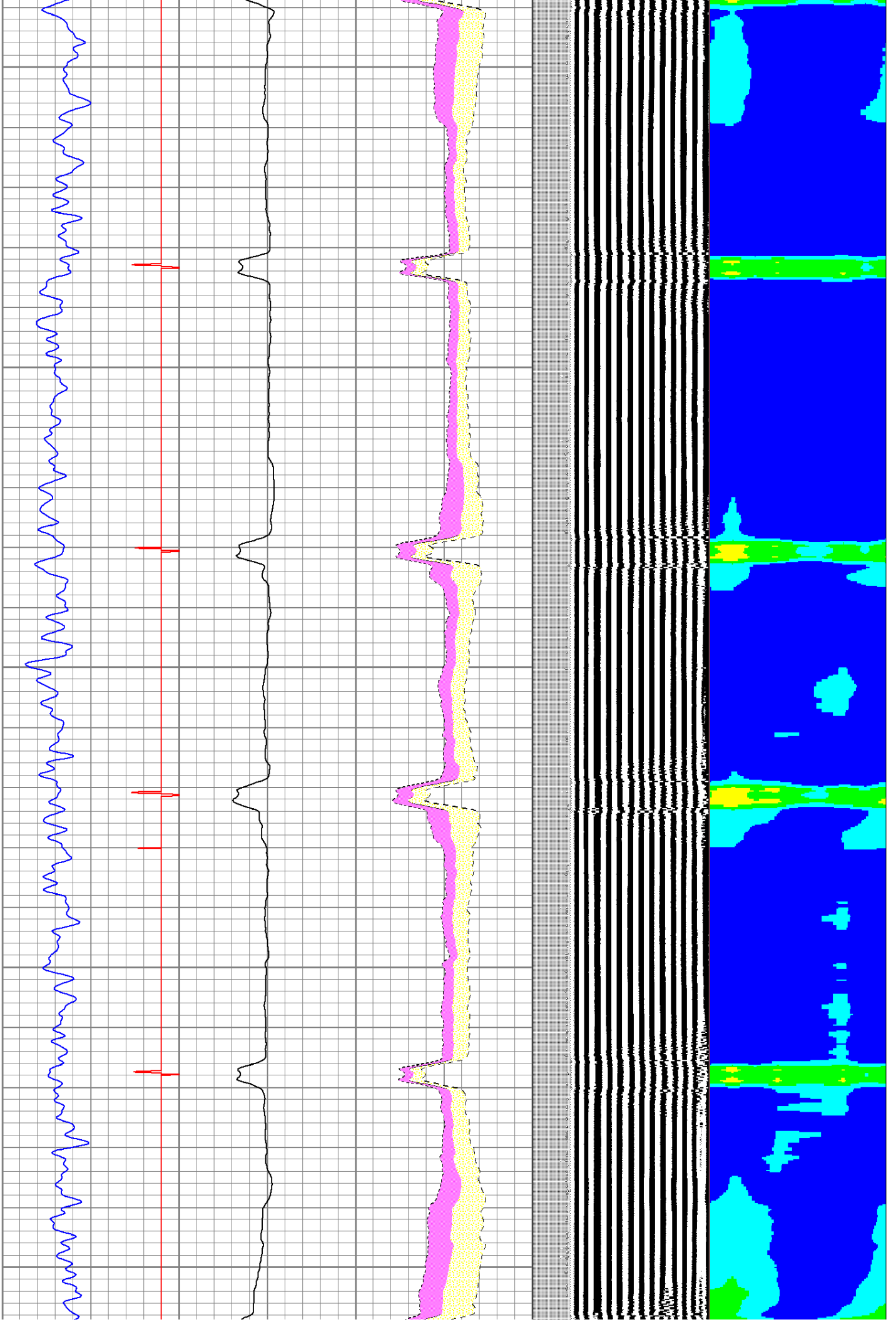
500

600



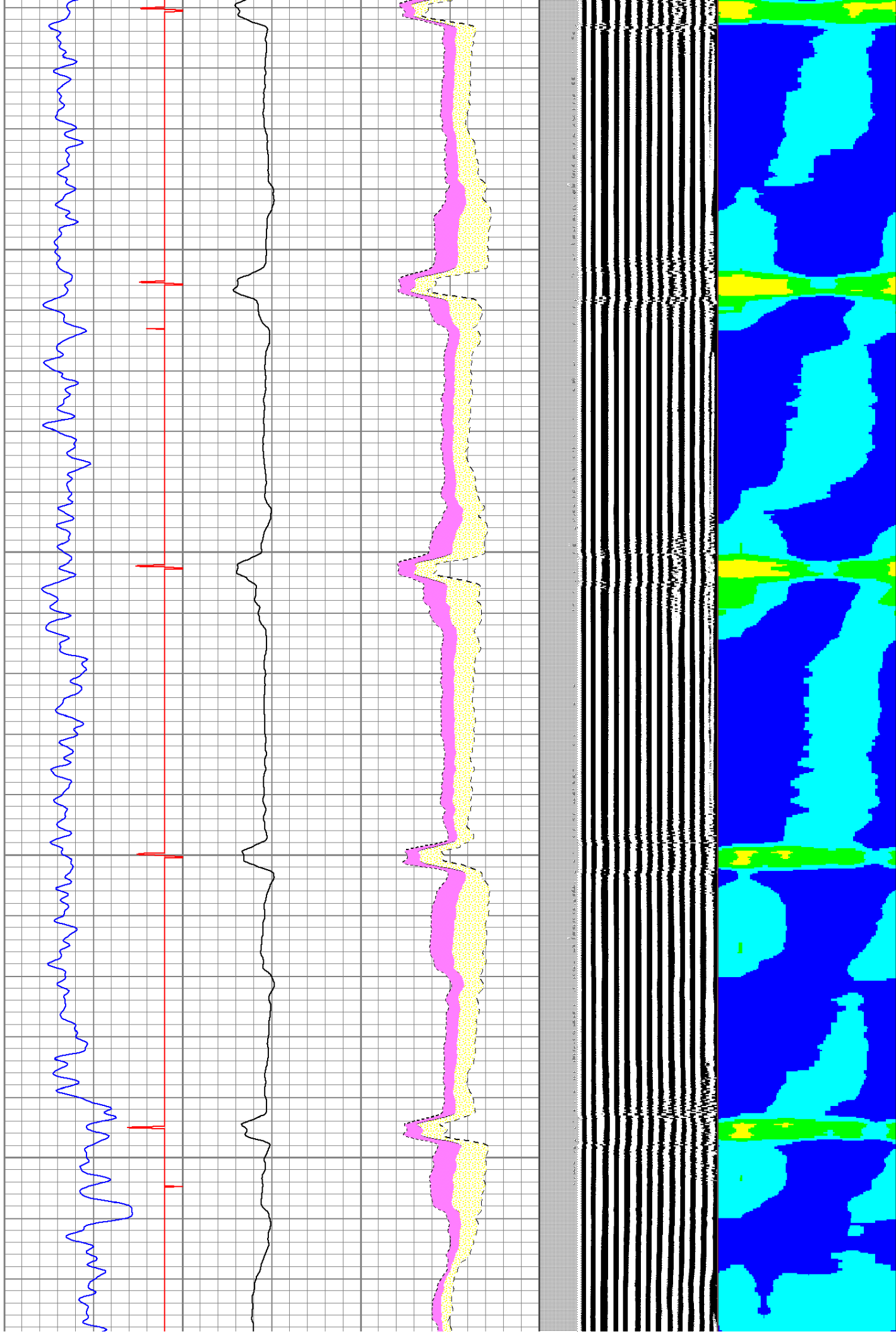
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800



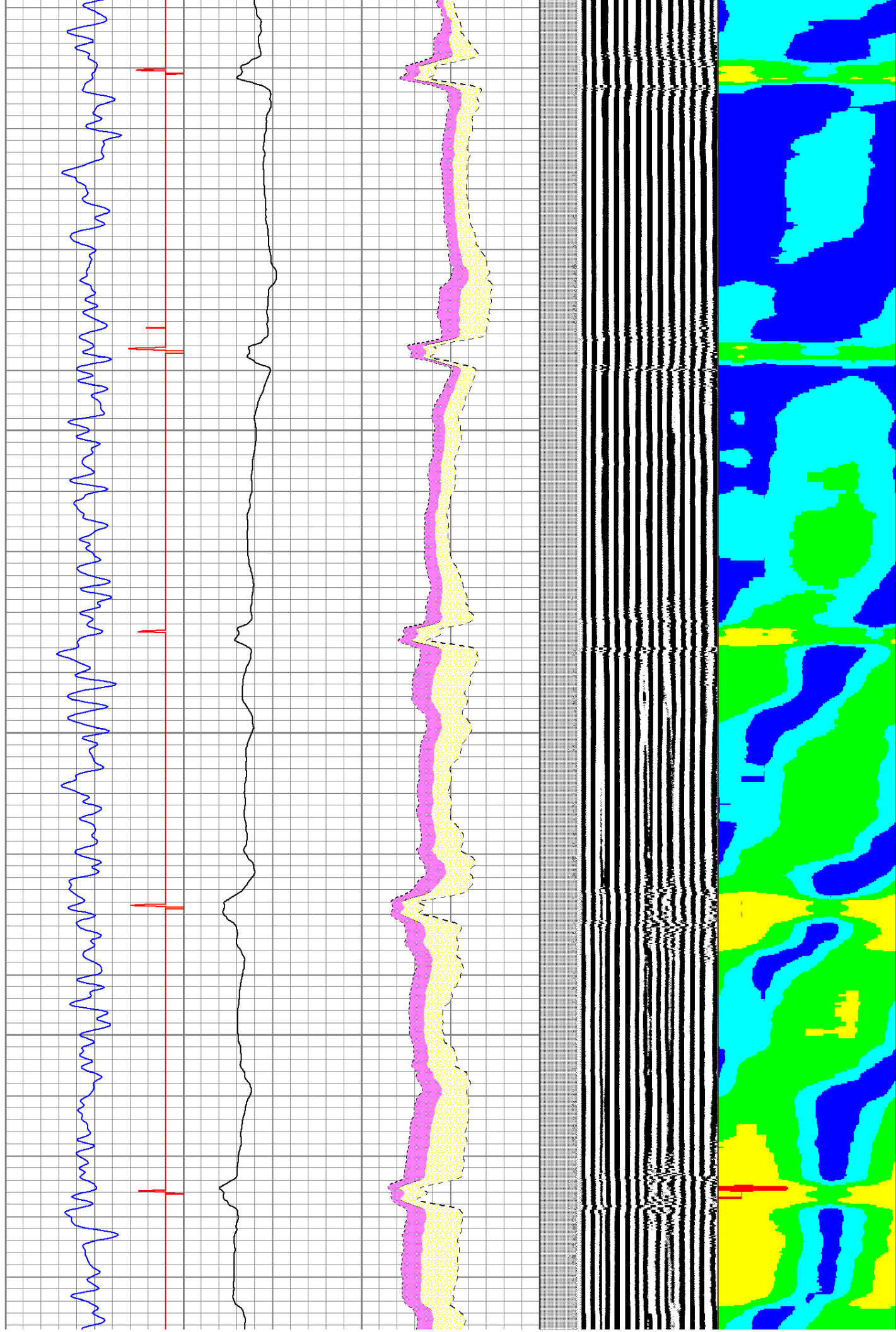
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1000



1100

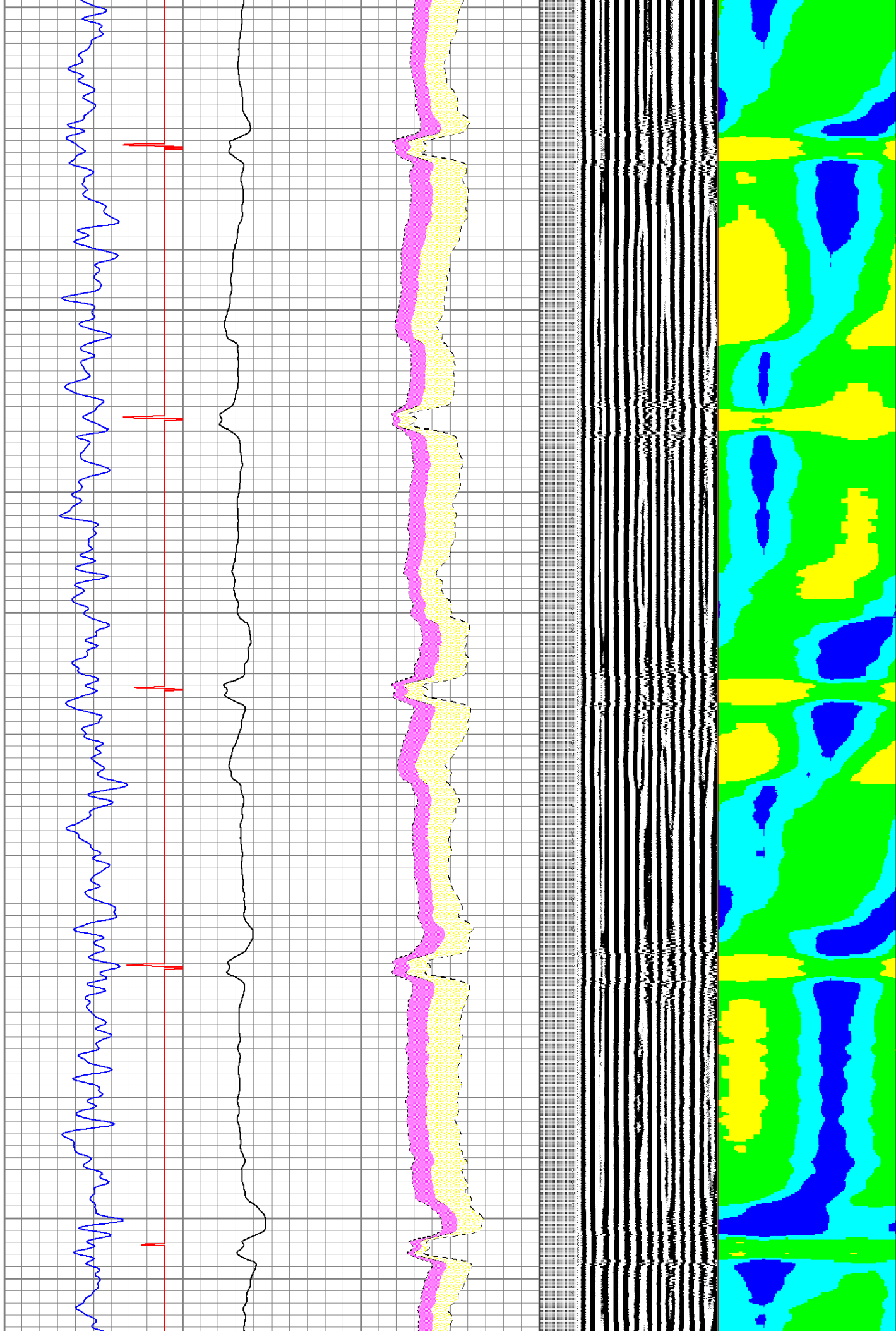
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1300

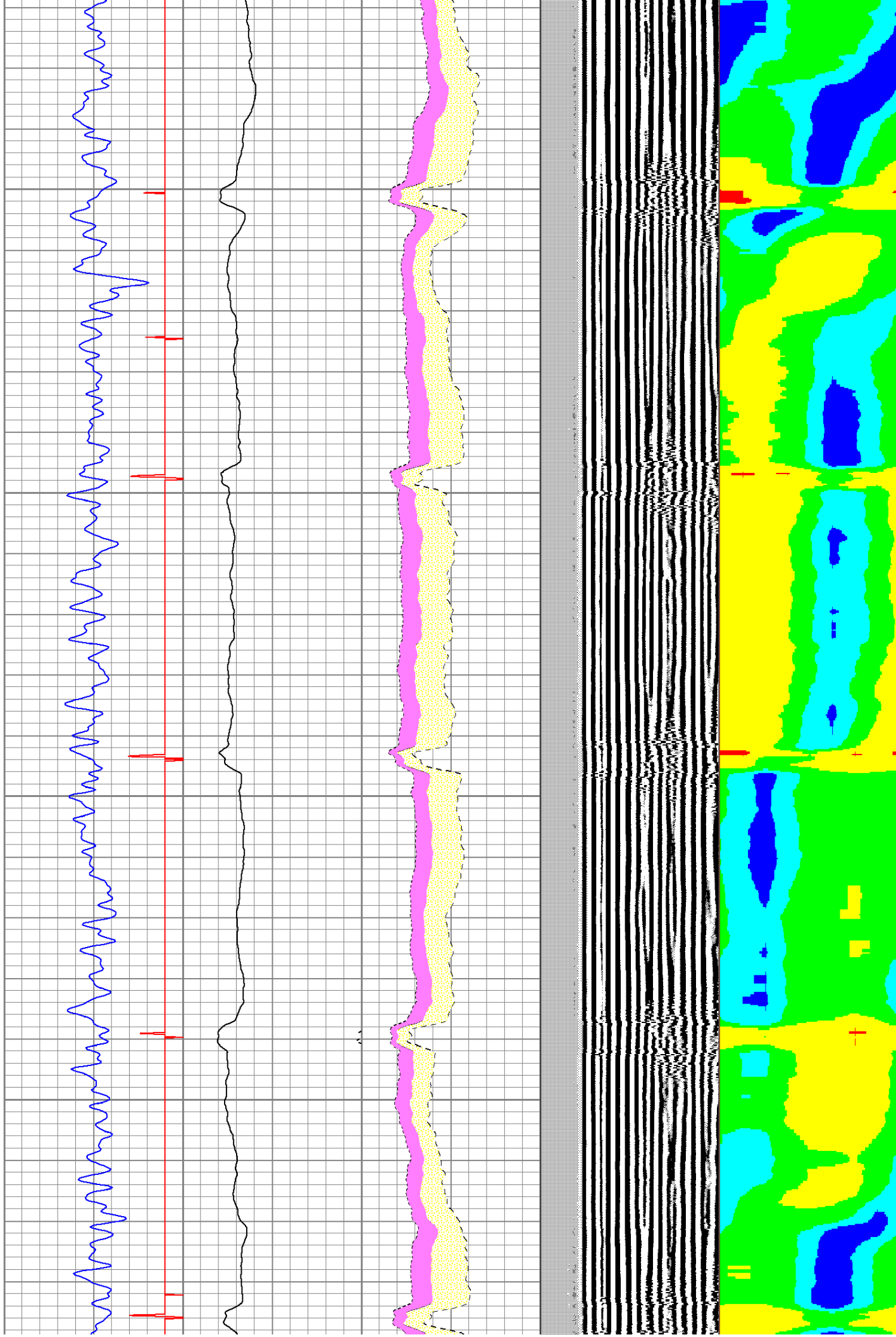
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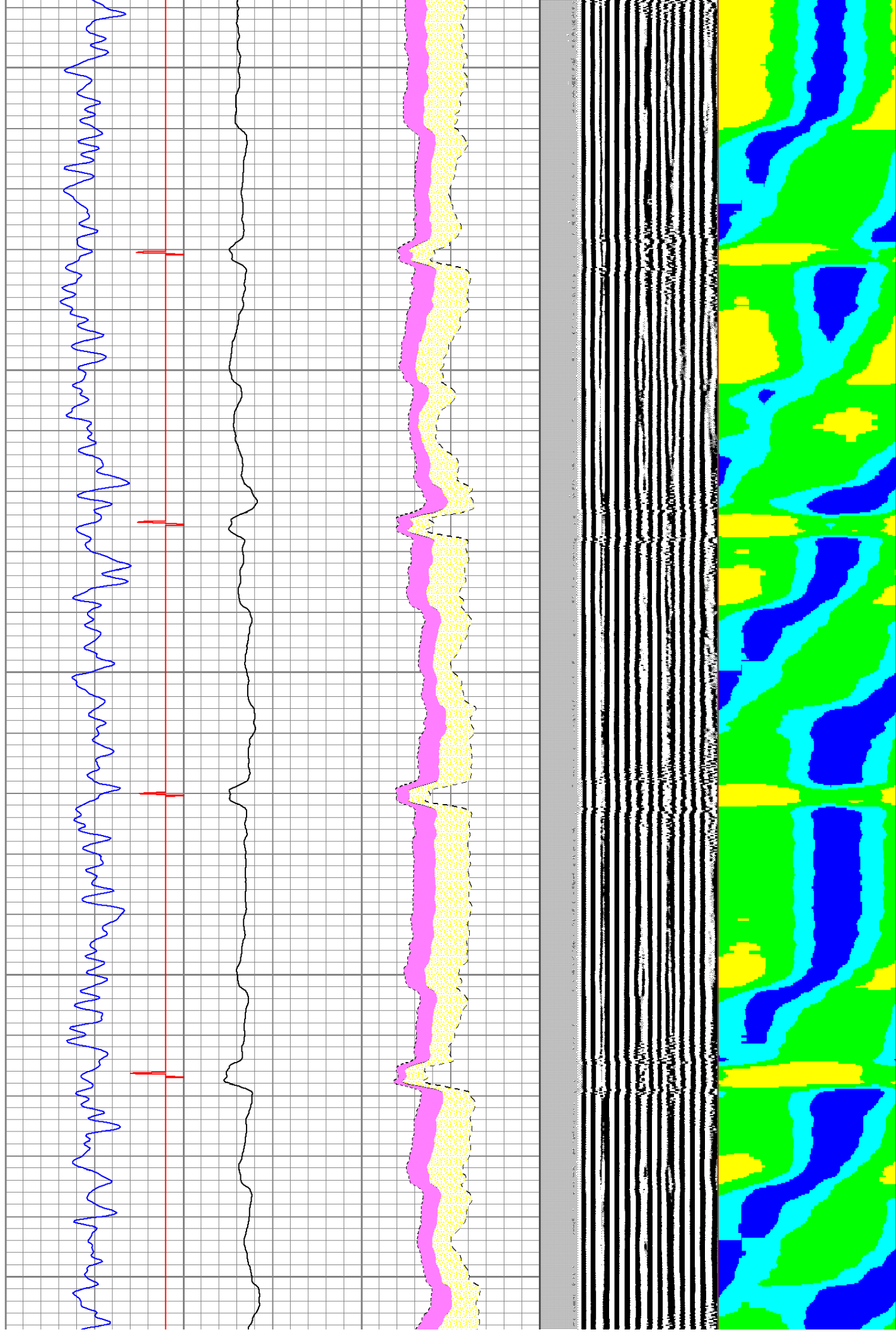
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1700



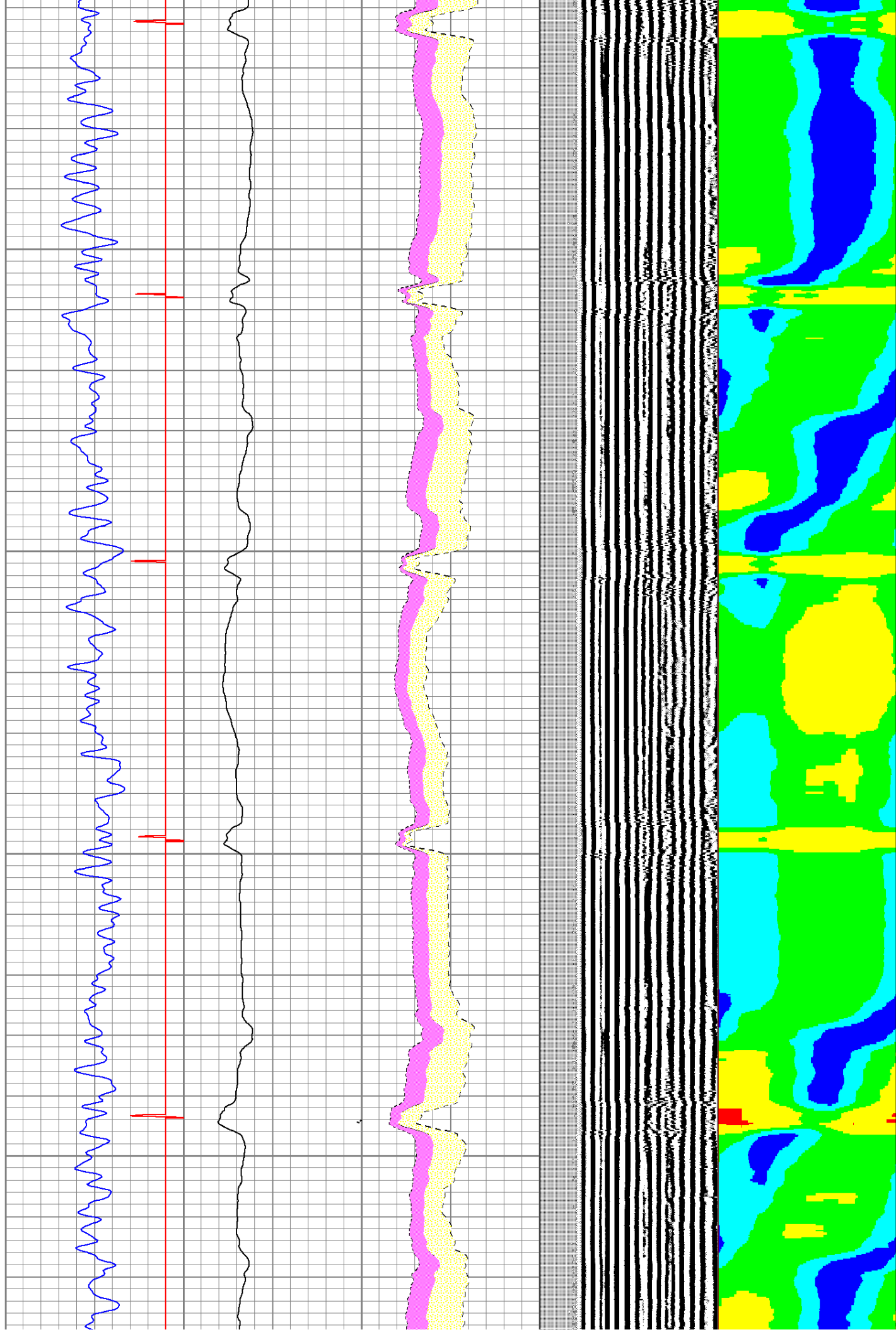
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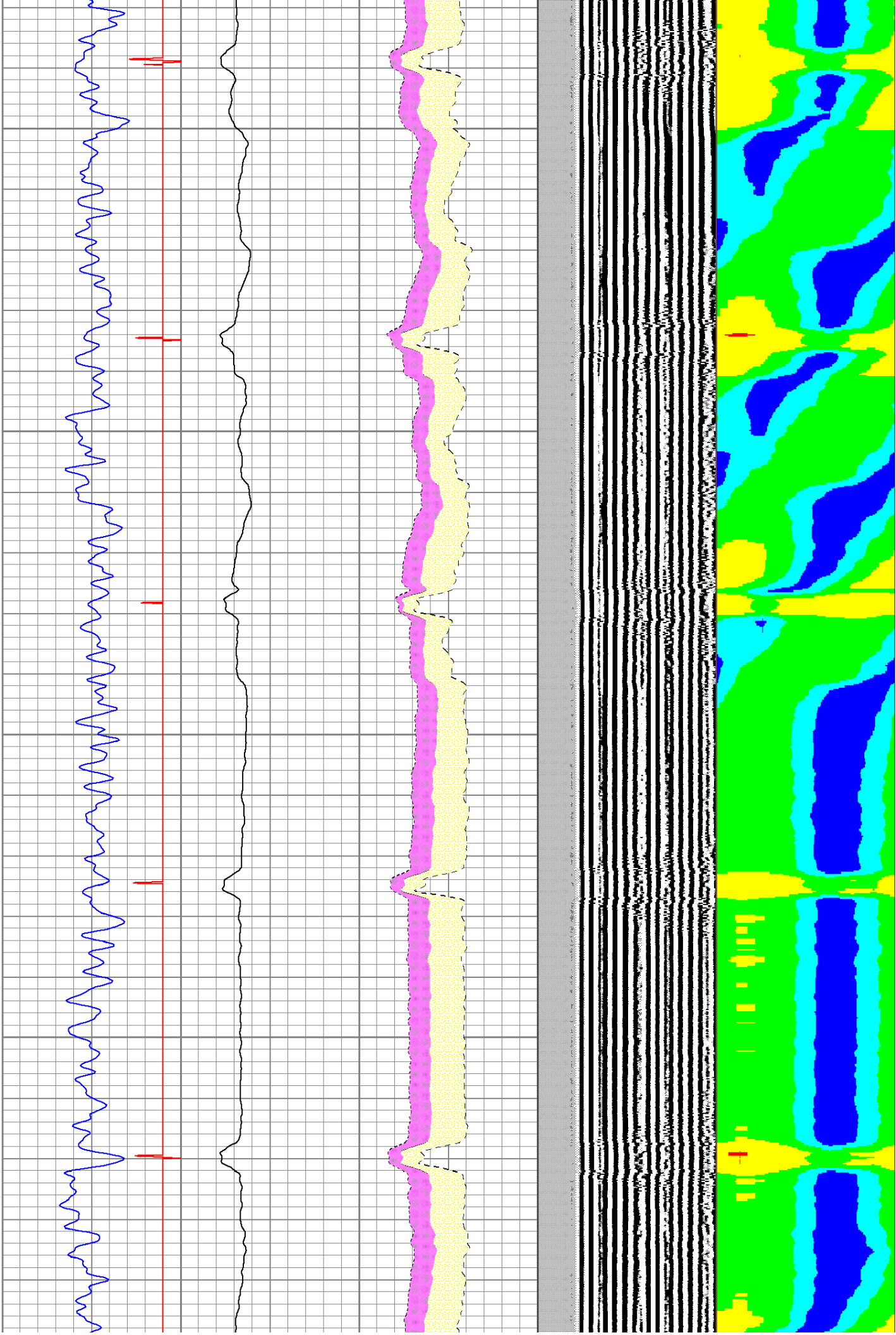
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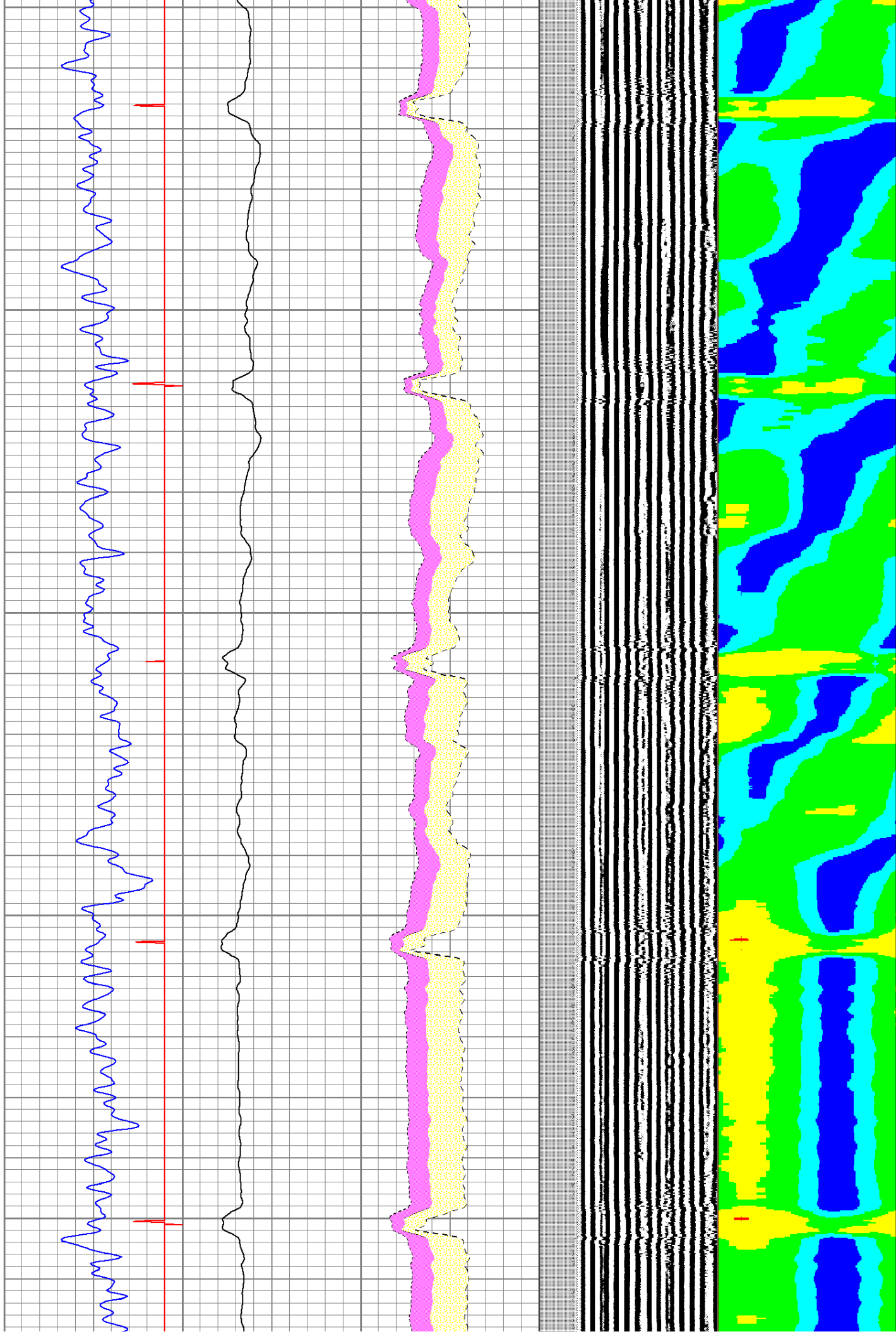
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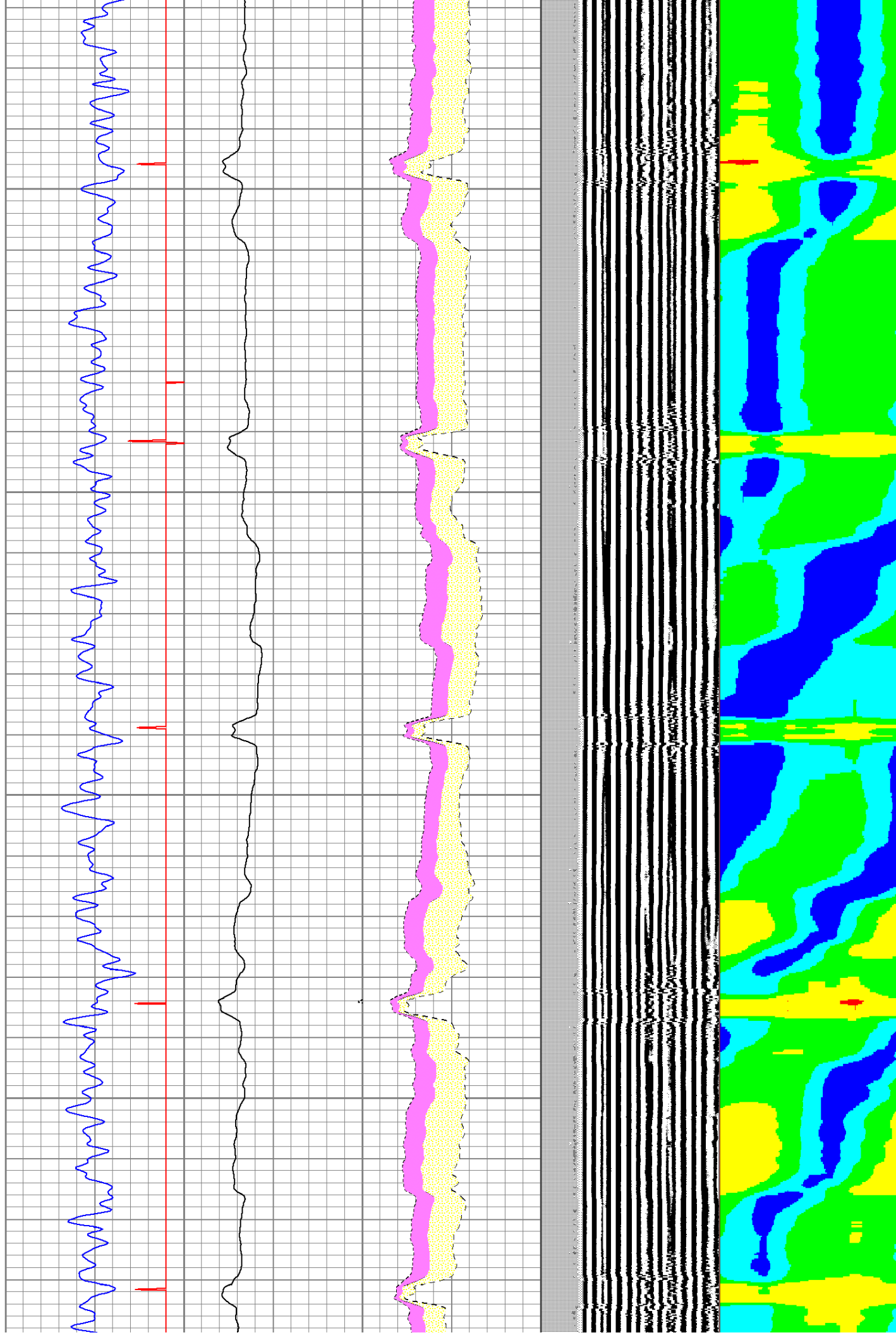
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2600



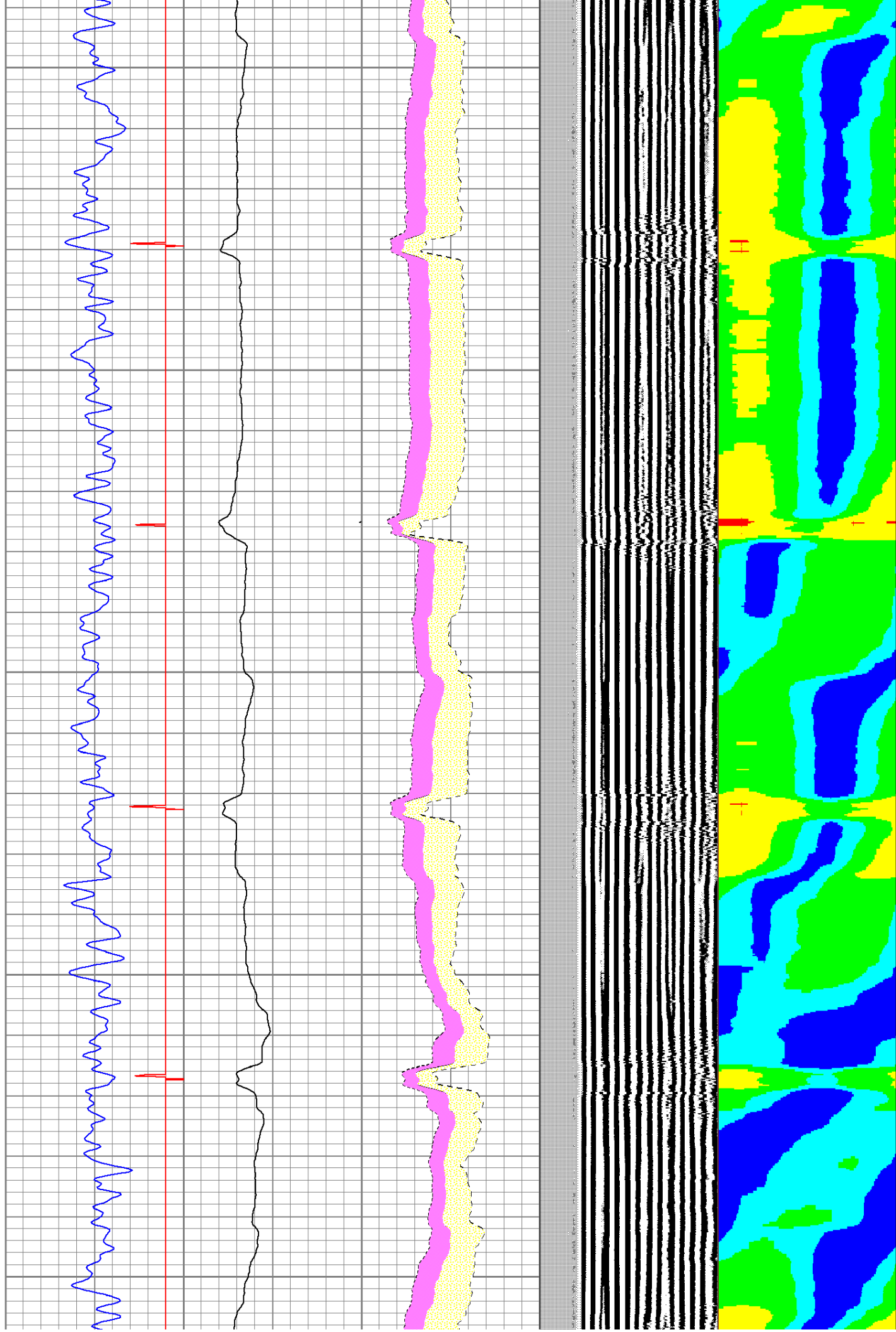
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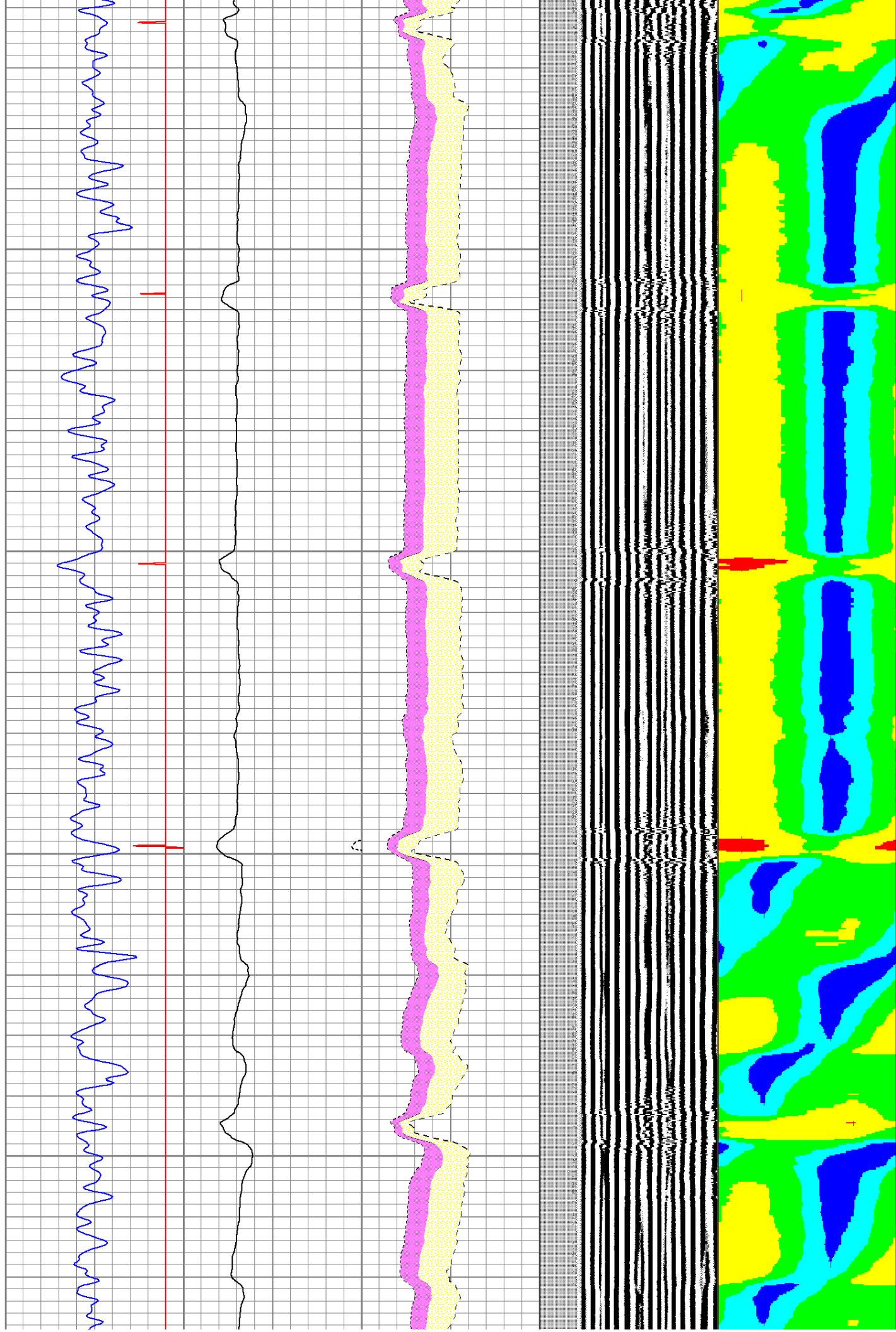
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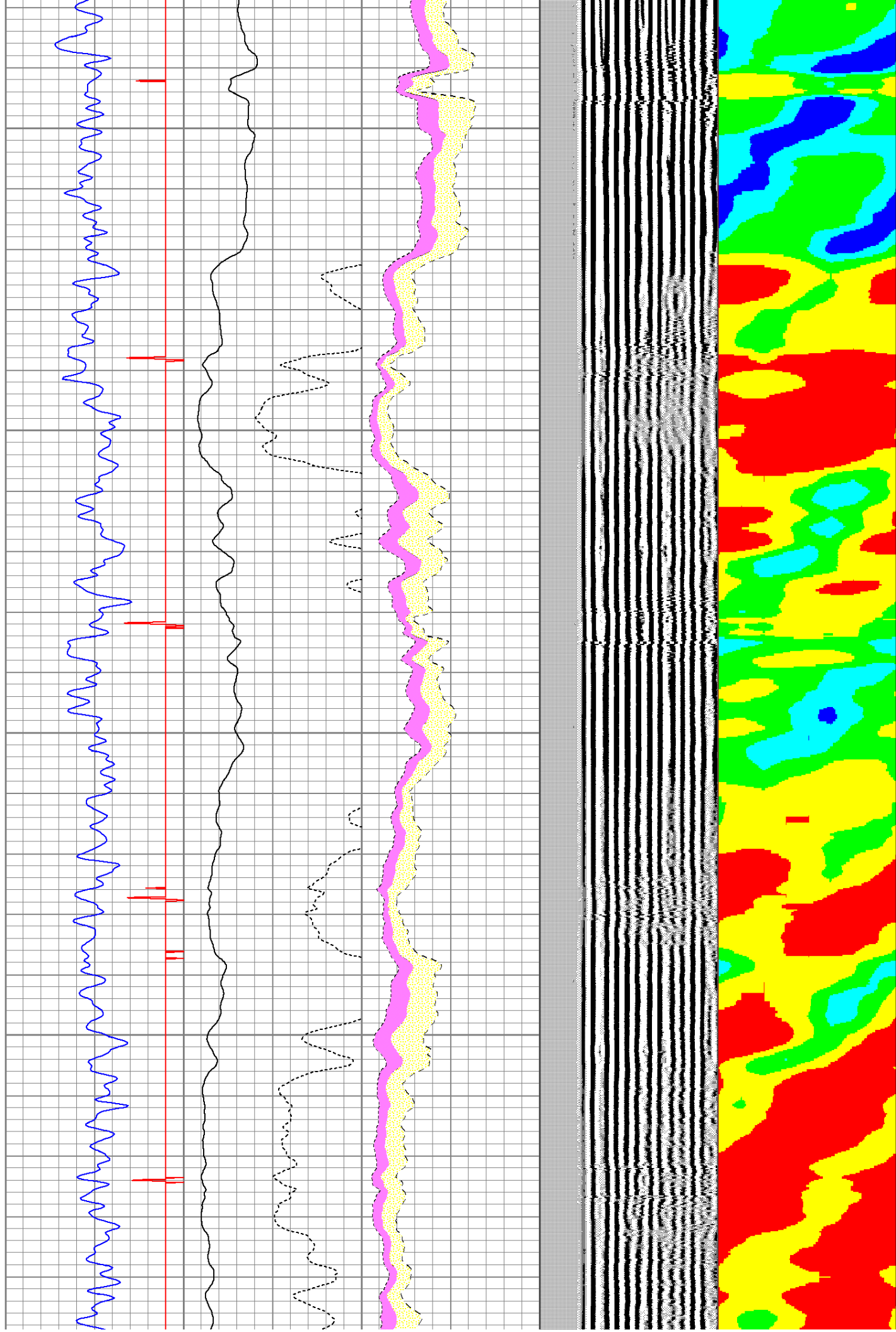
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3200



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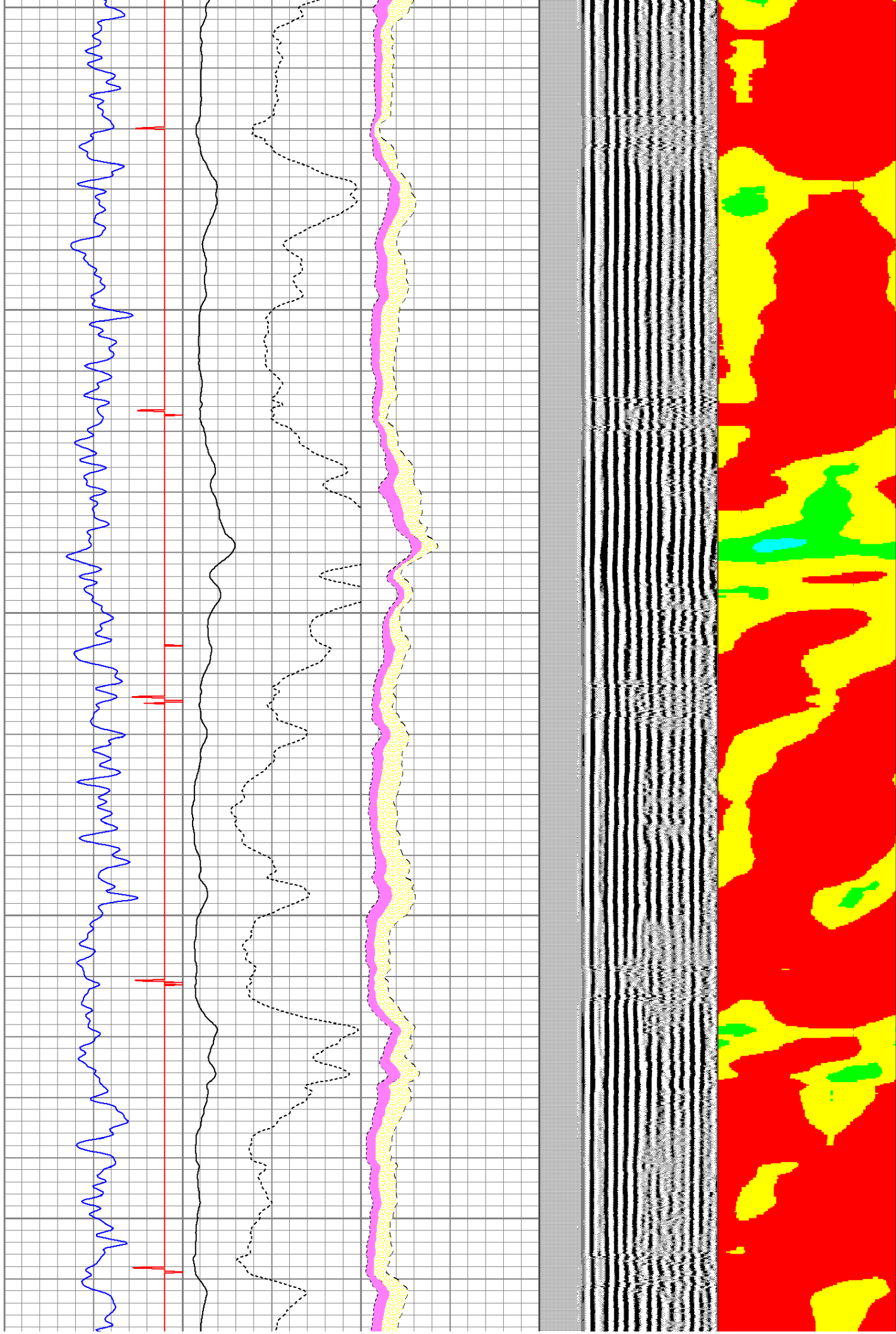
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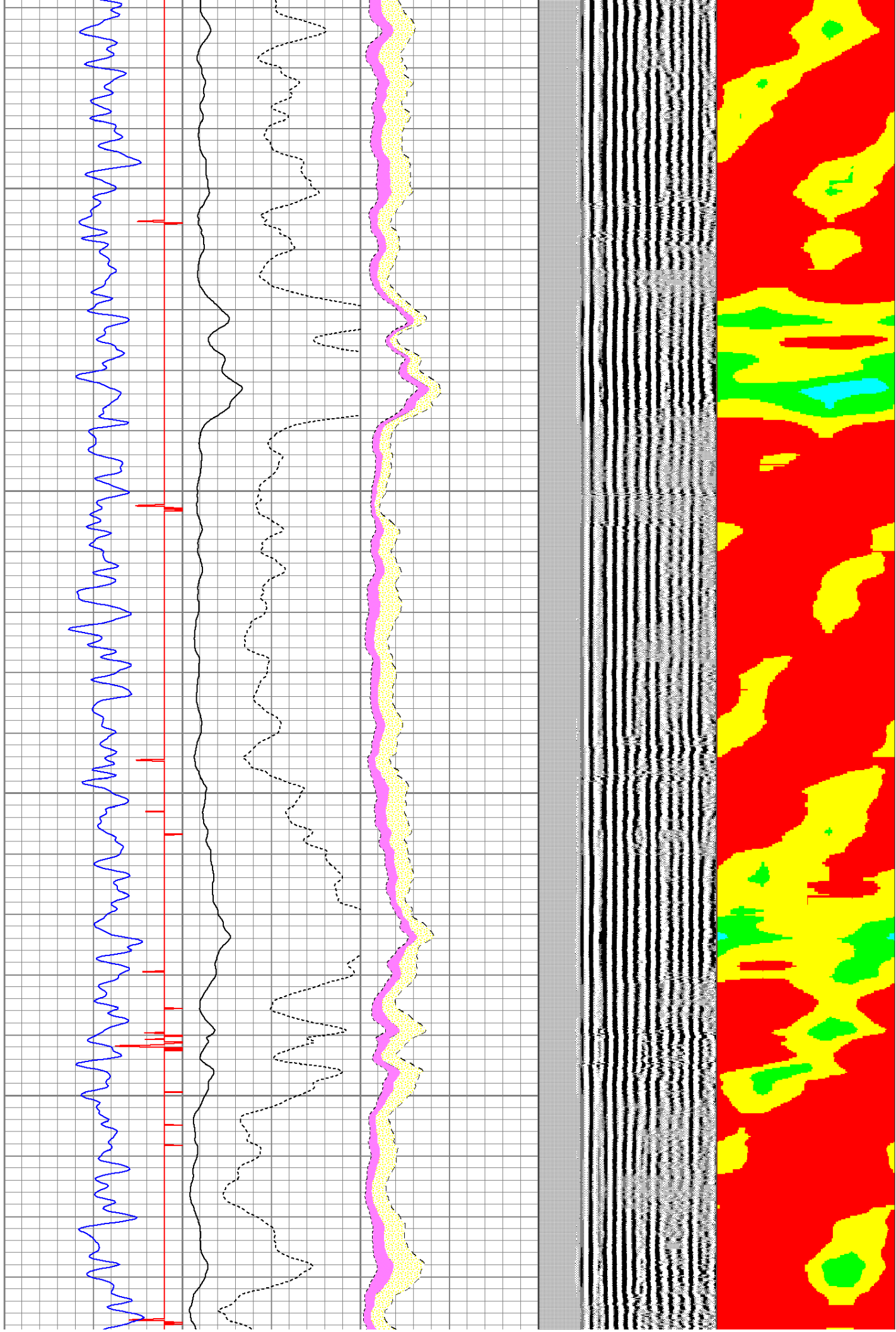
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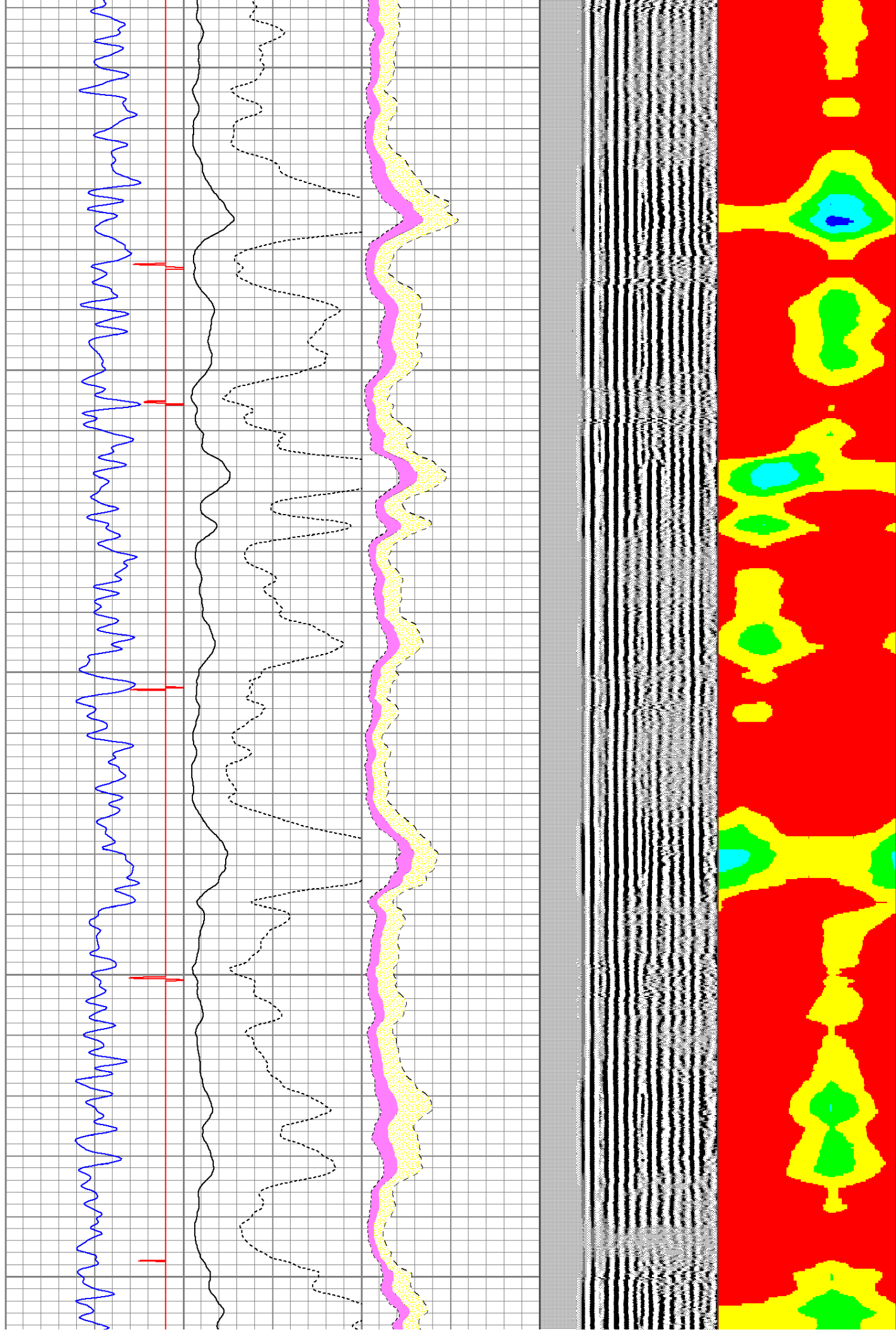
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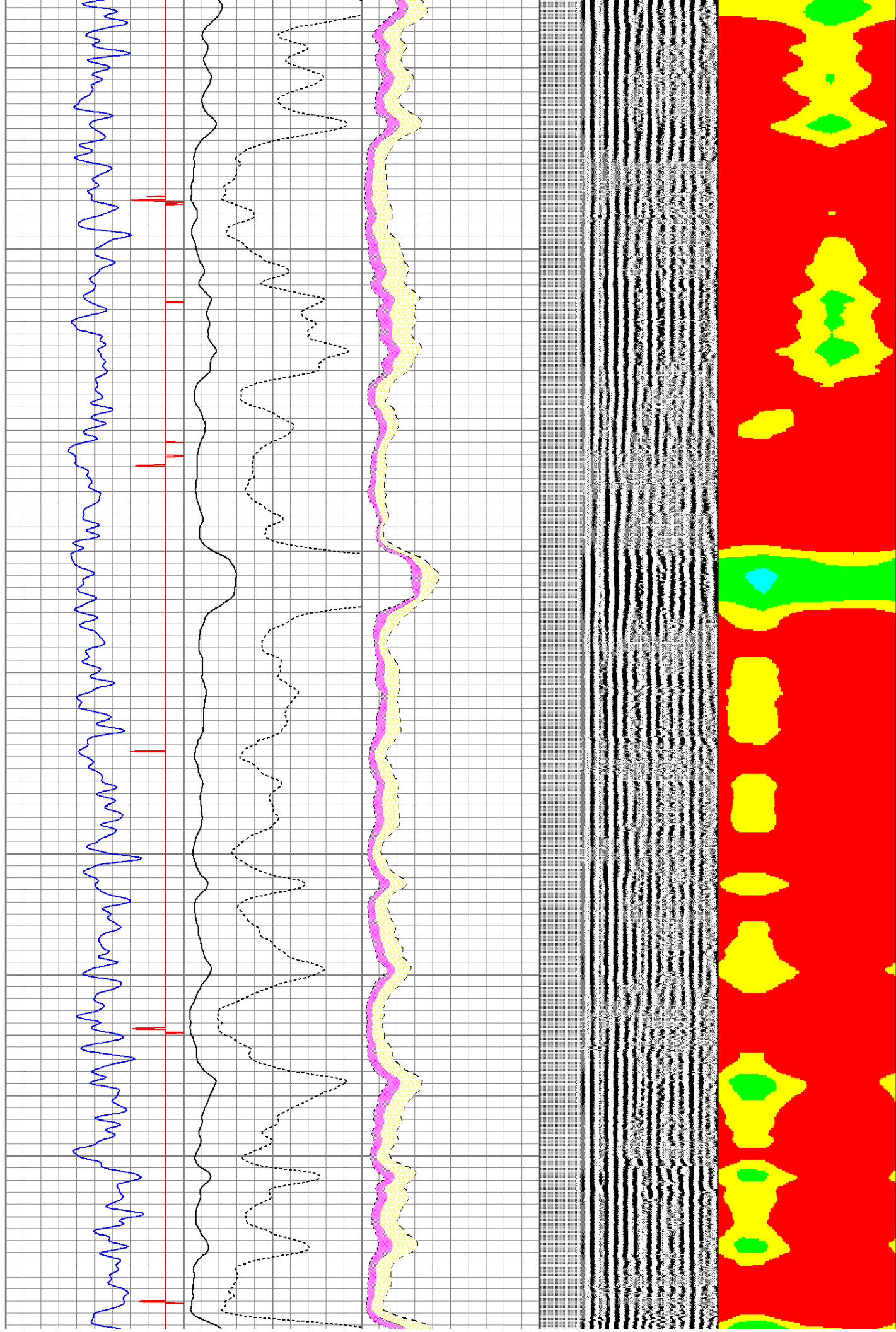
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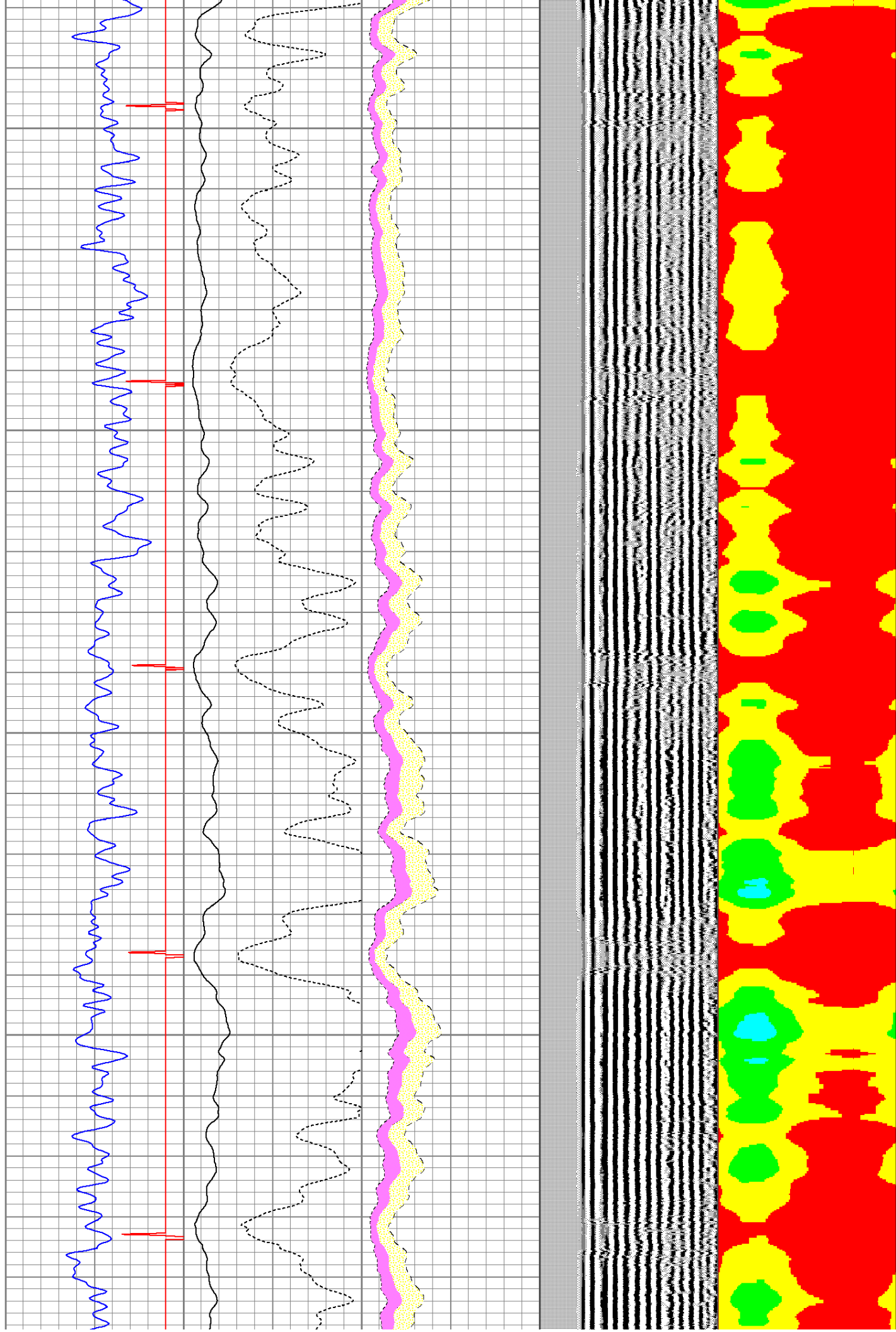
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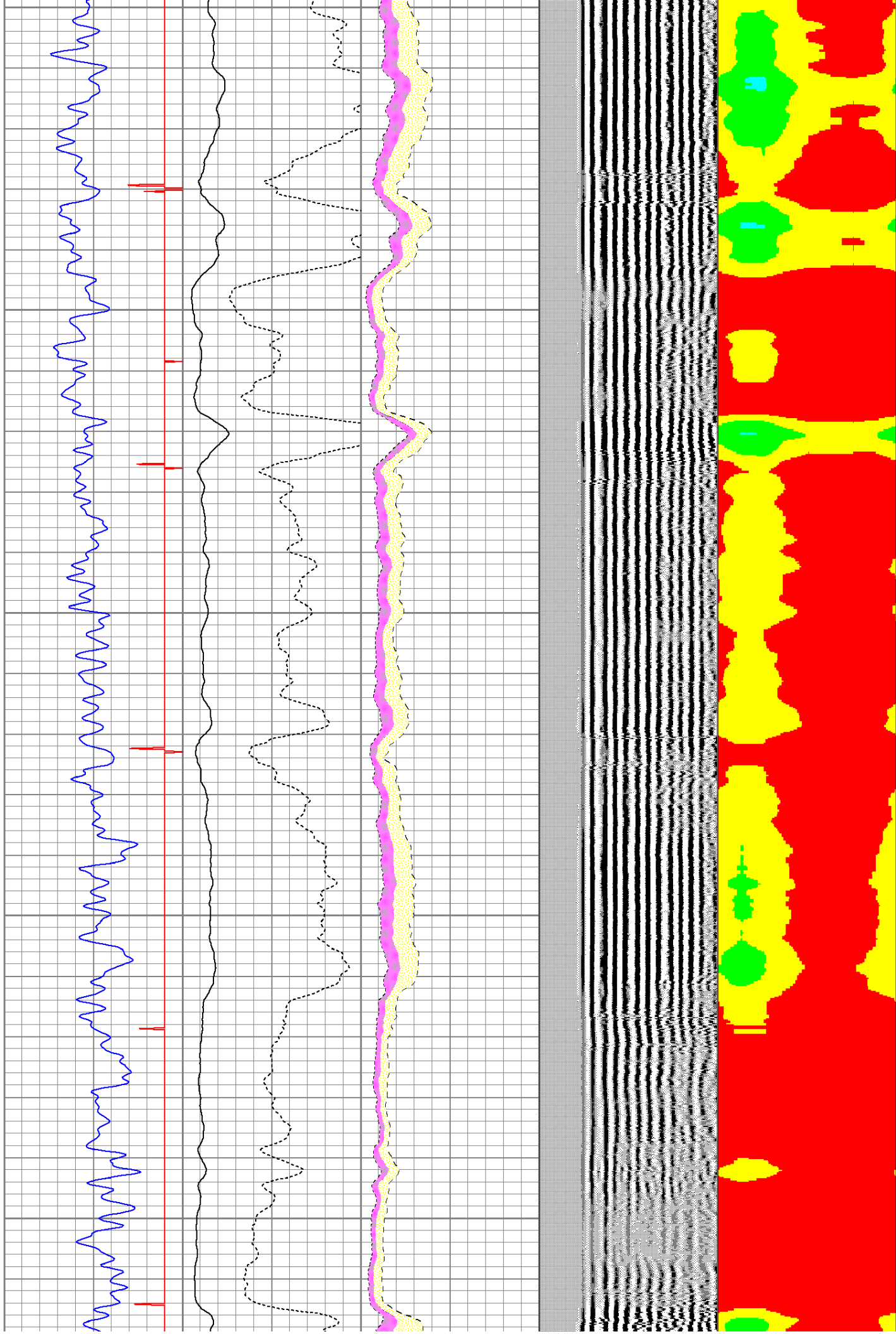


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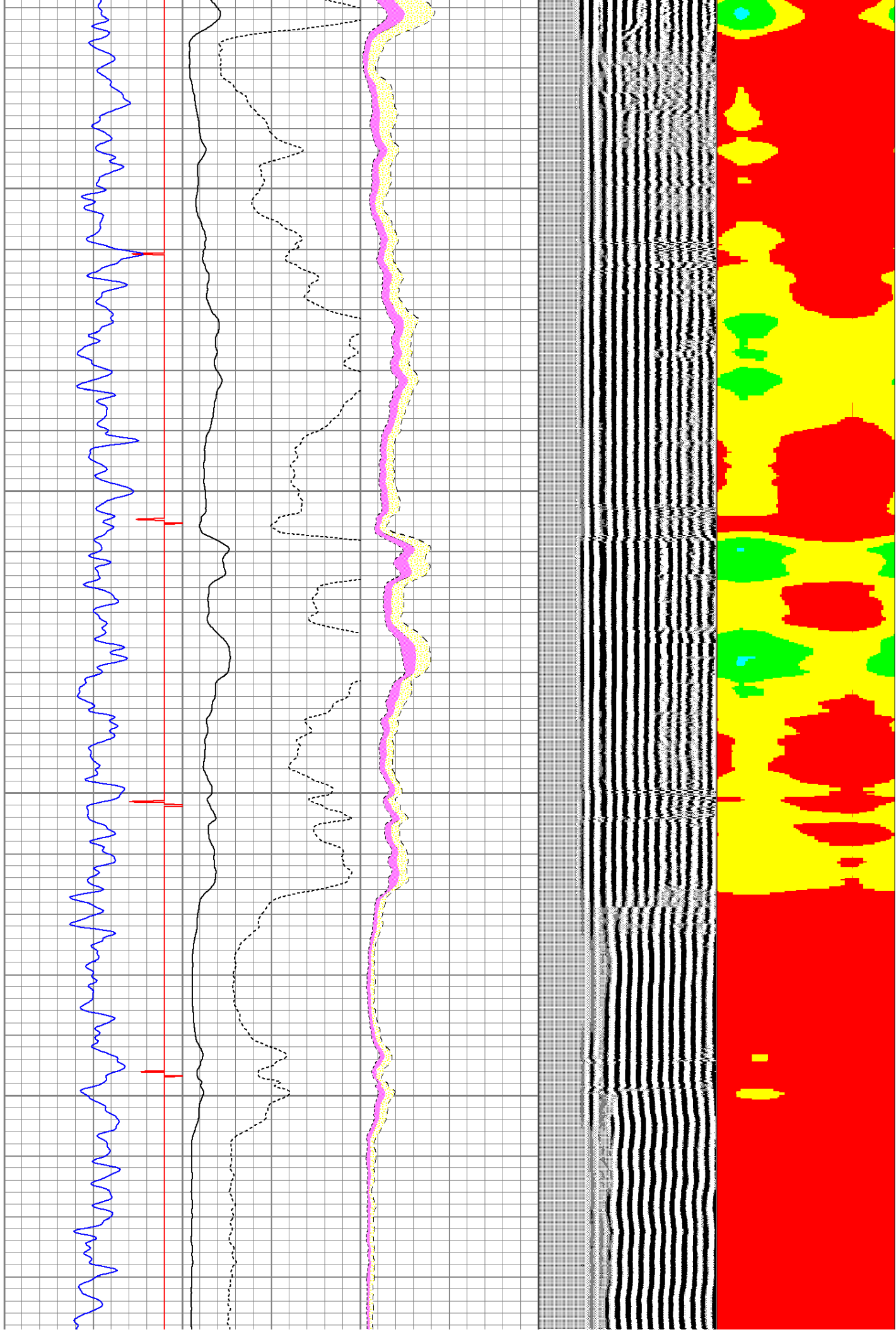


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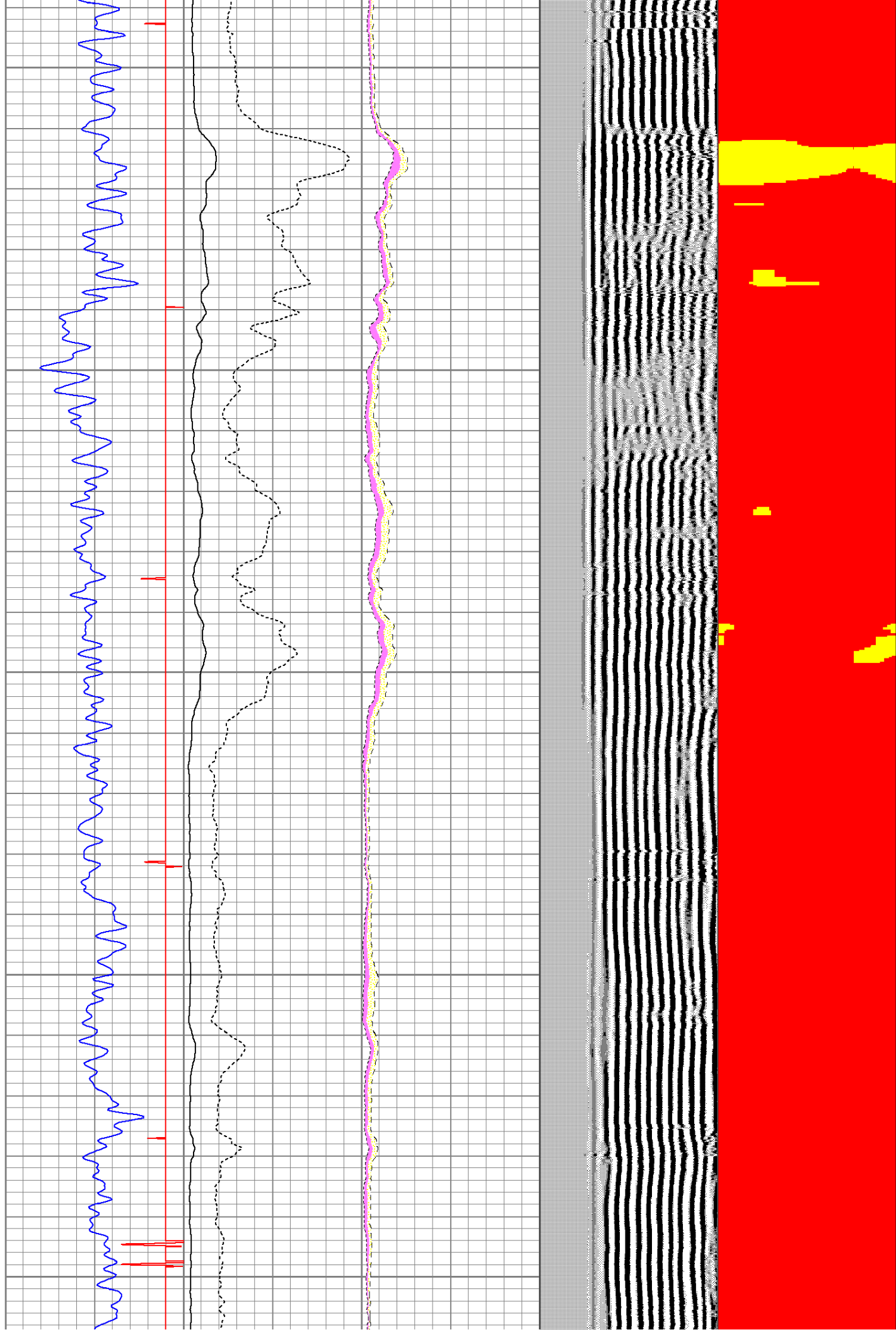
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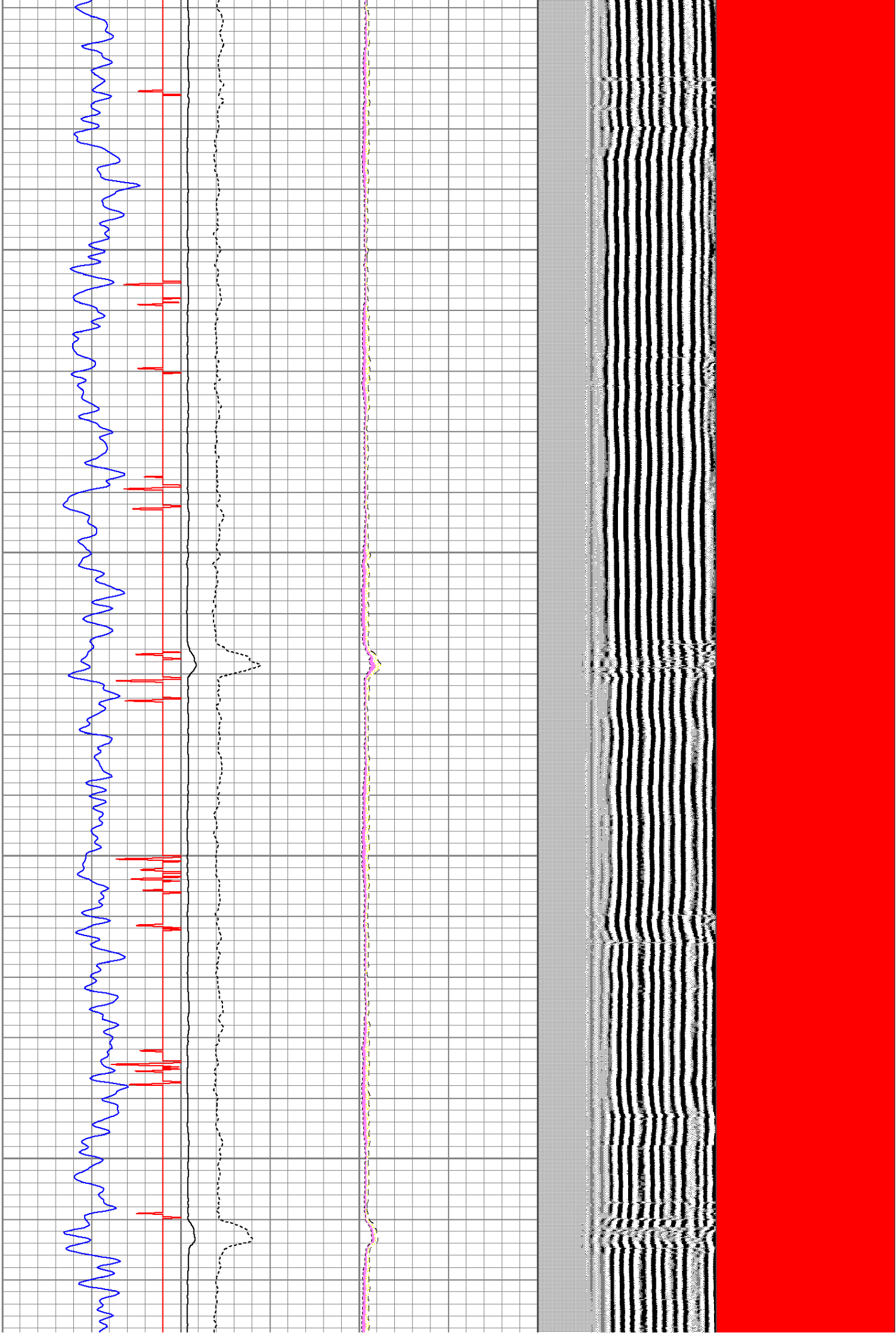
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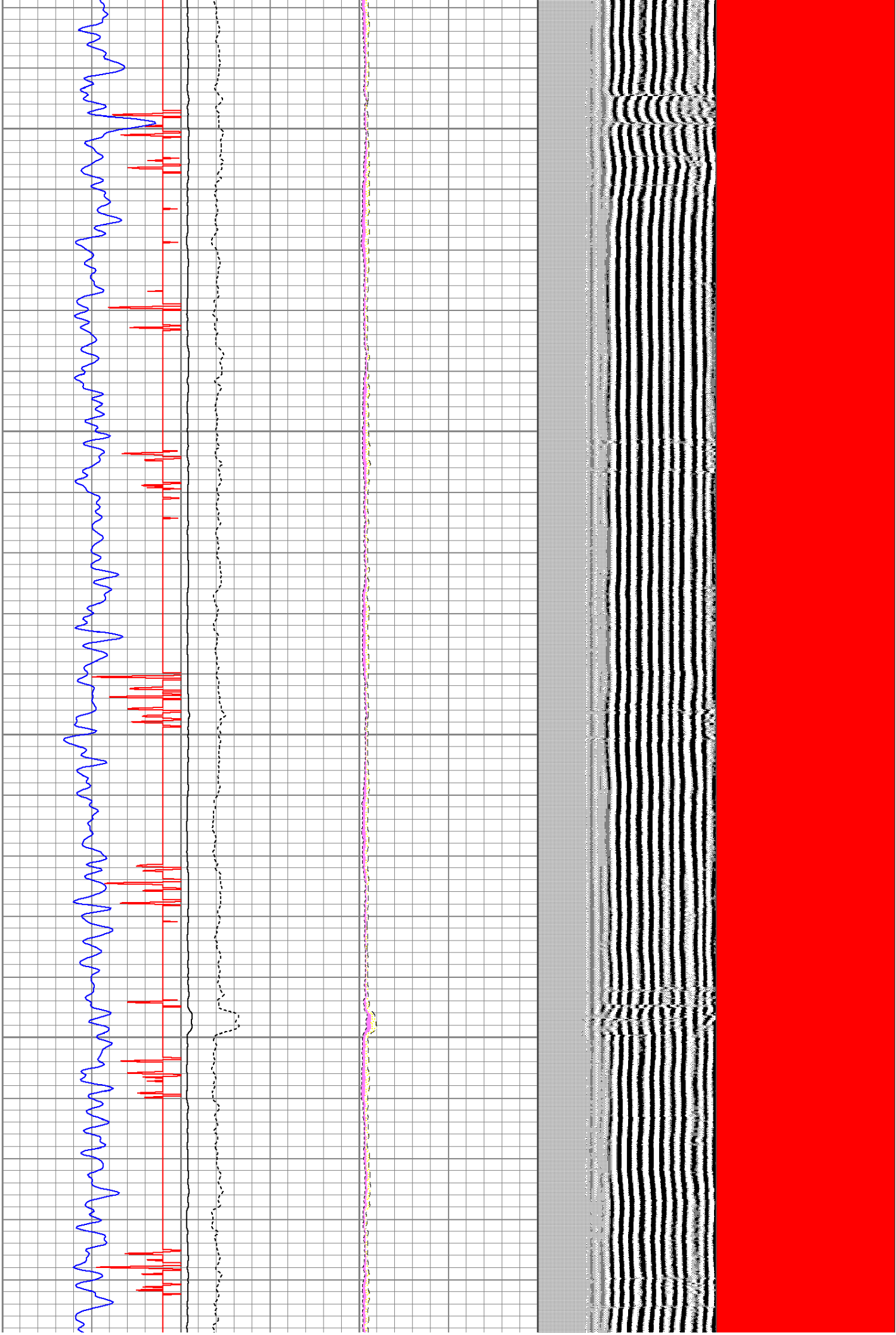
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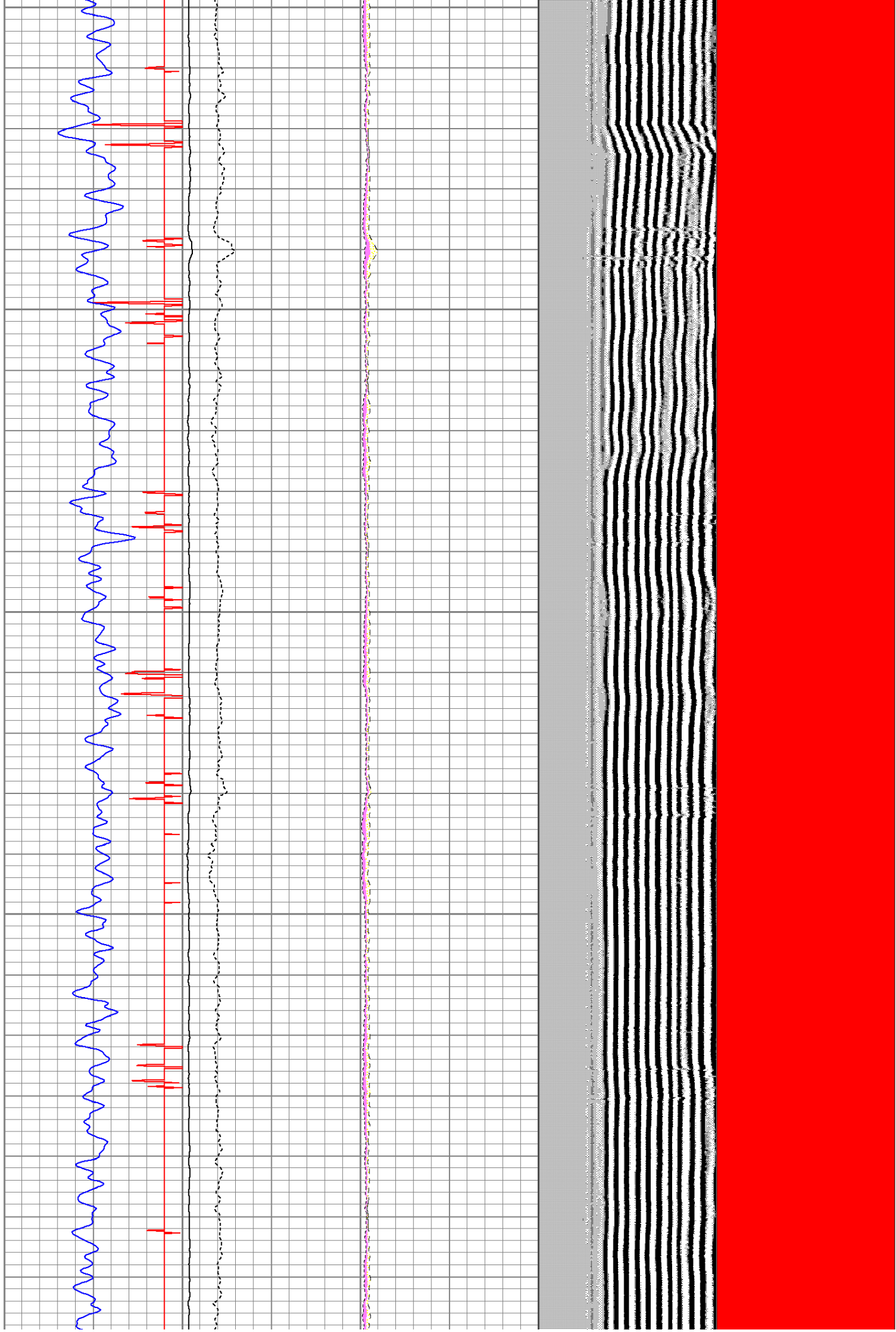
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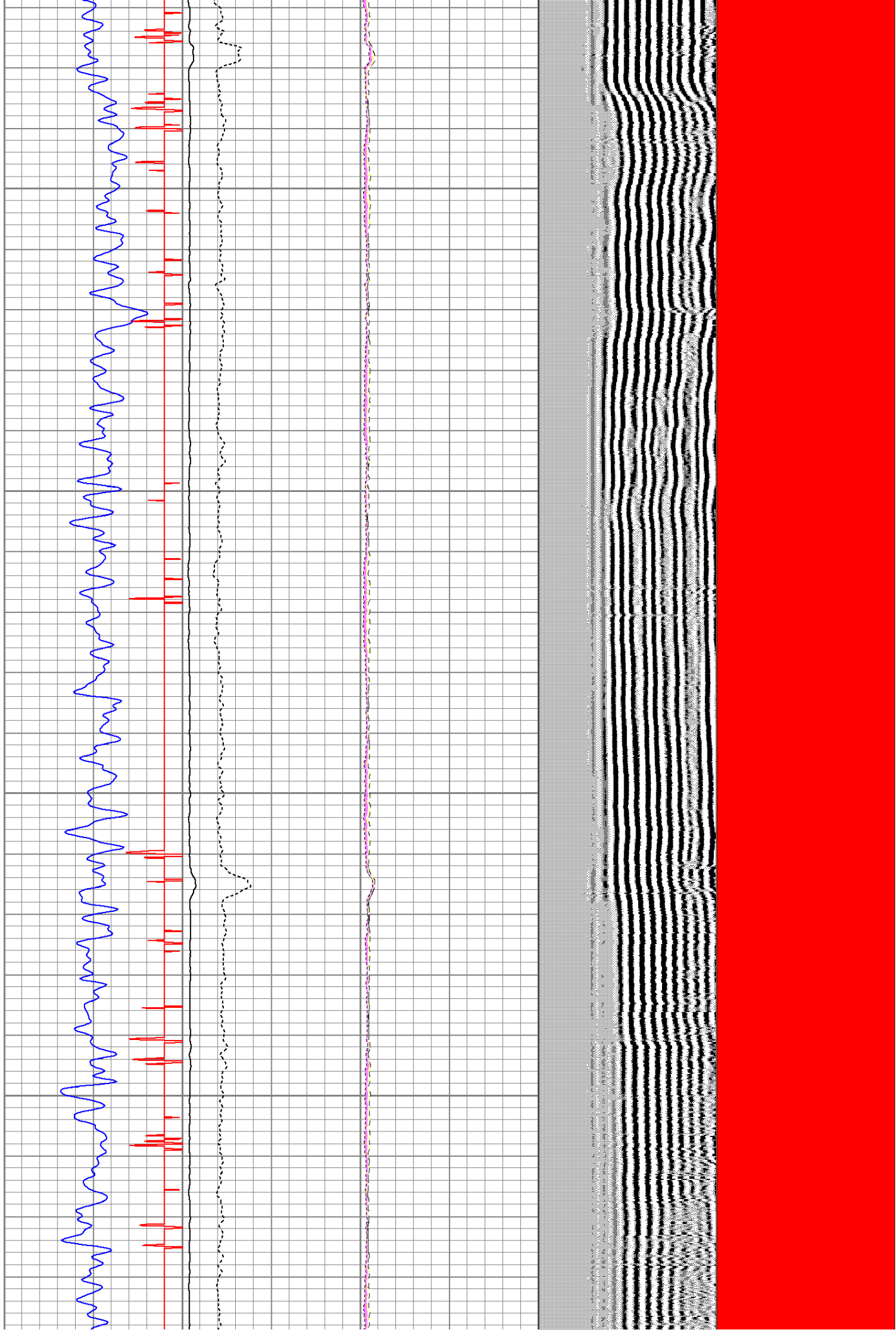
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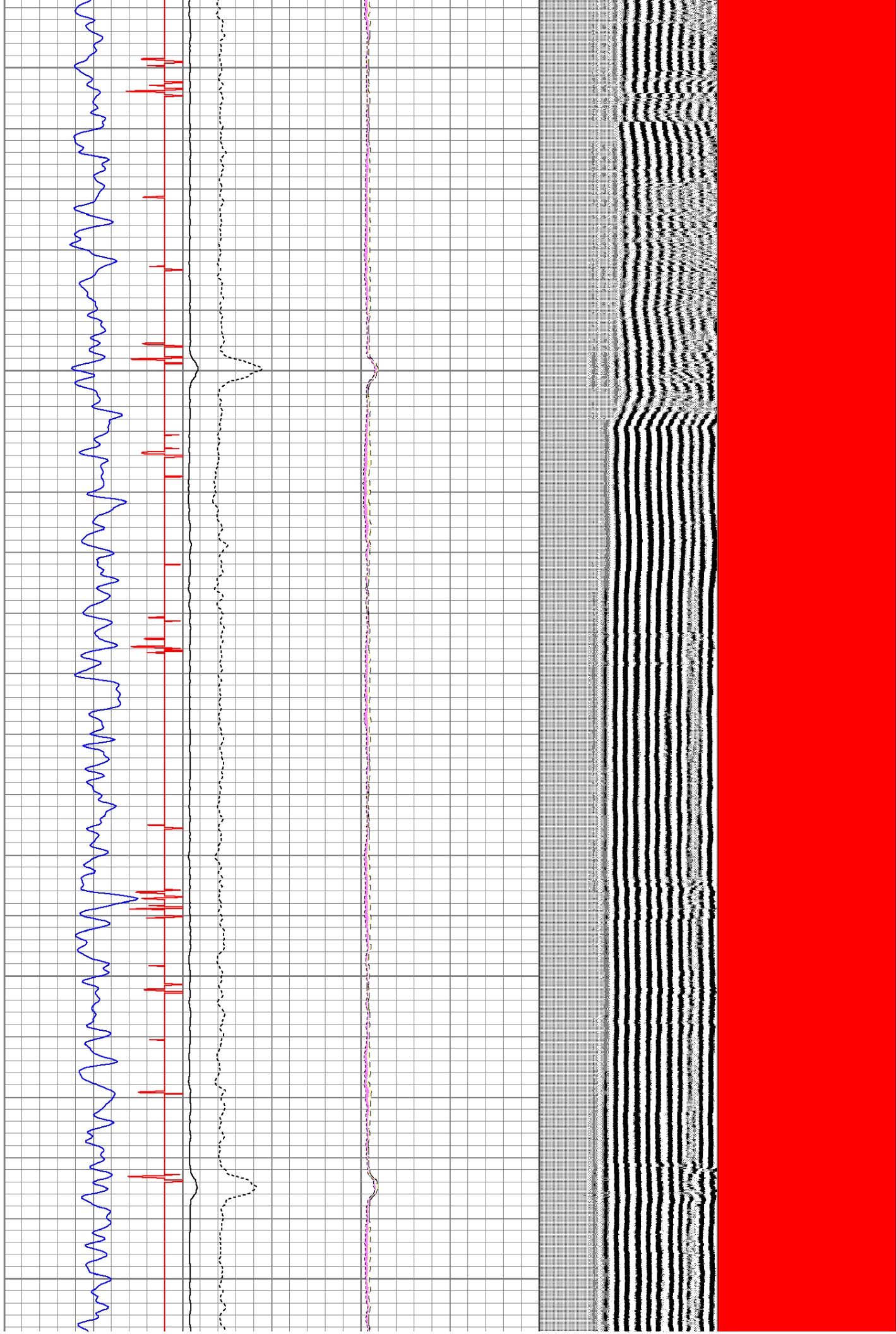
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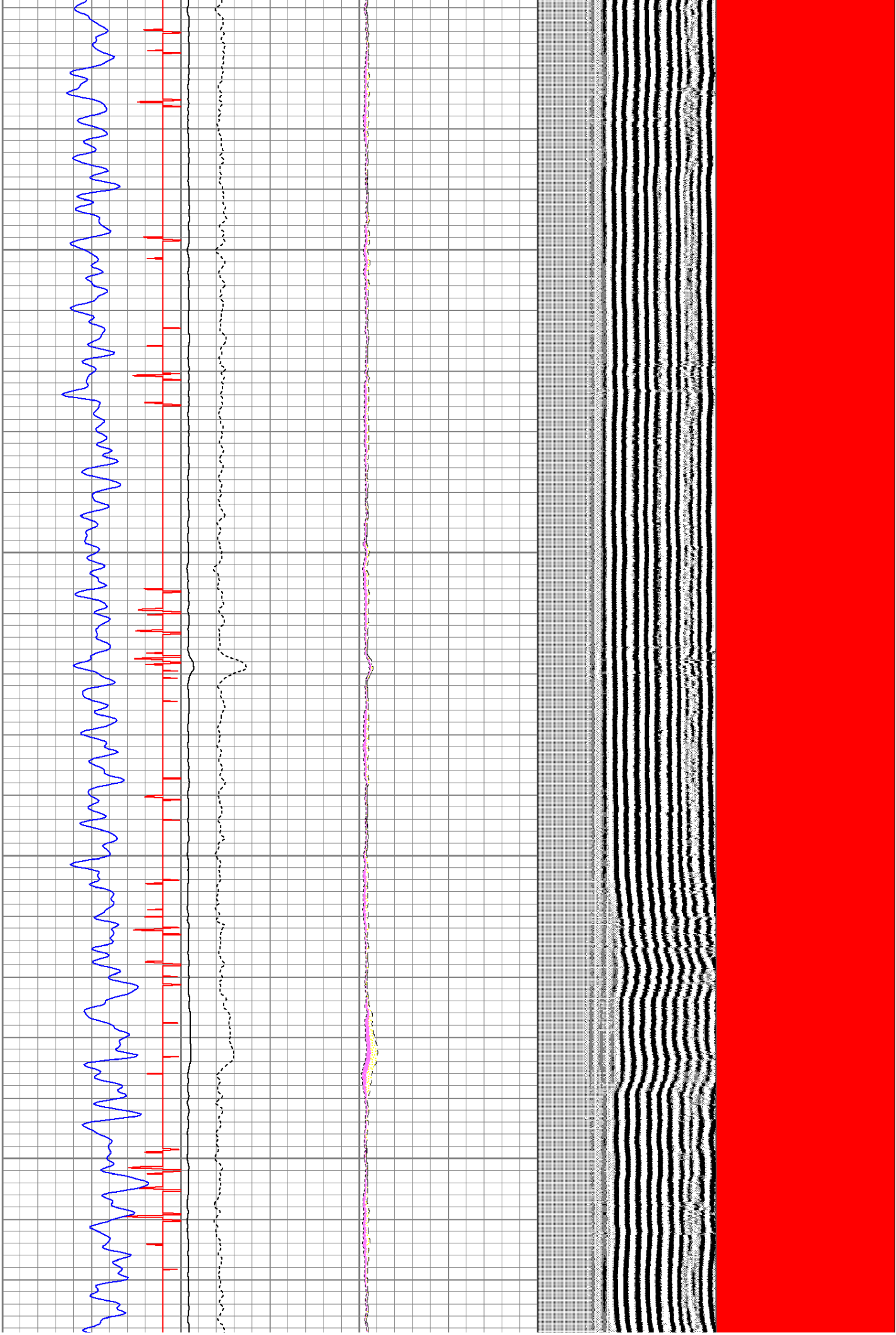
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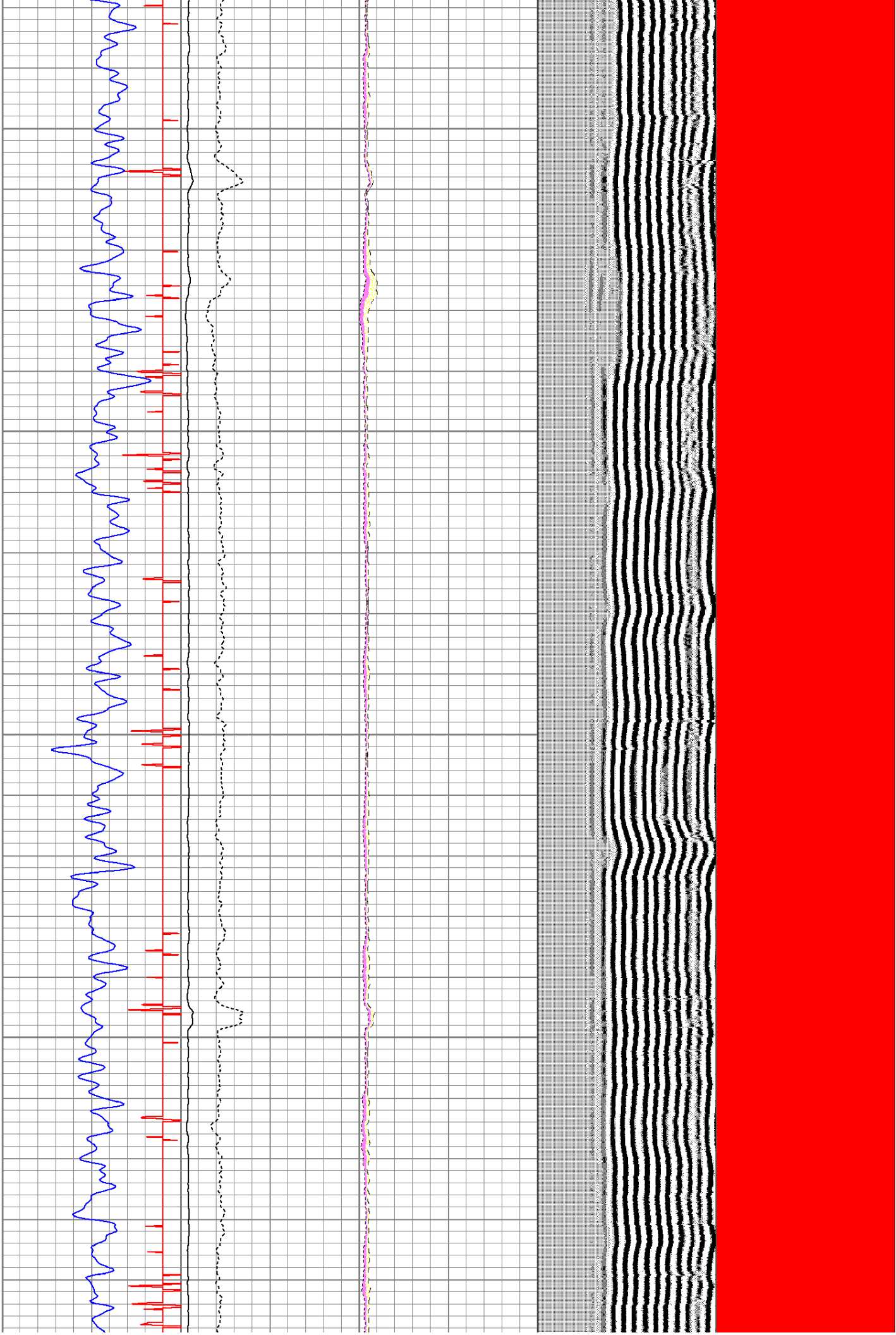
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6600

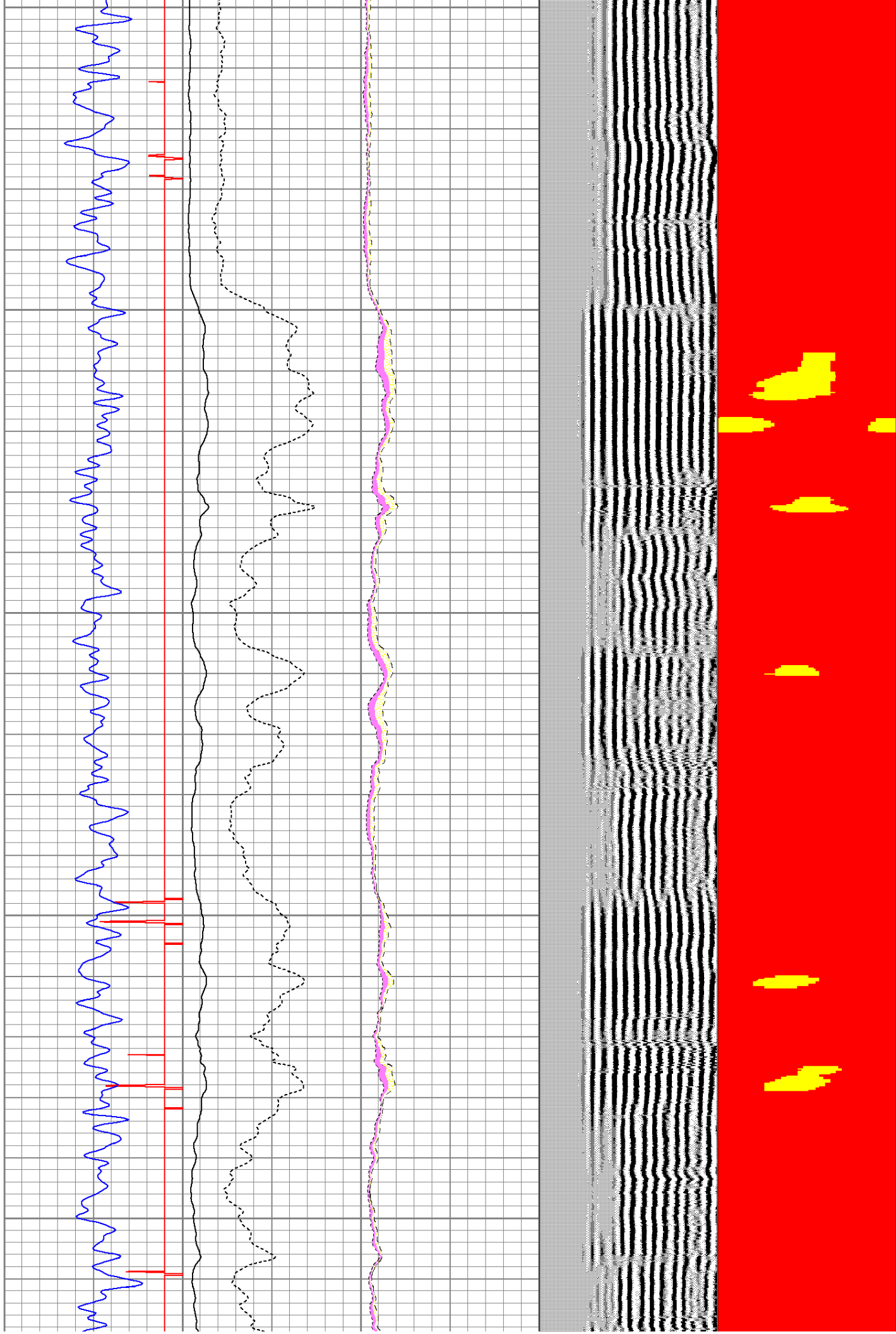
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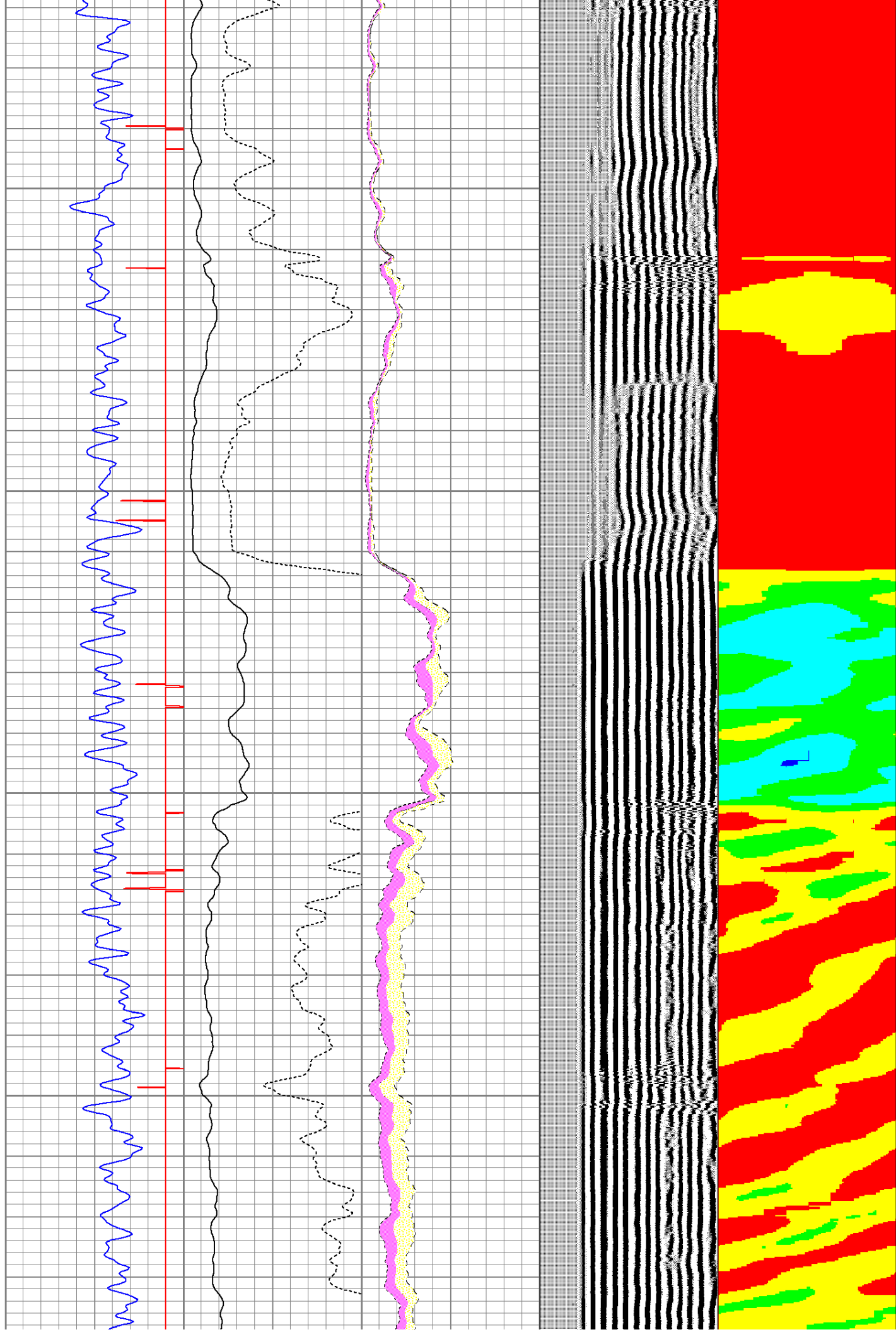
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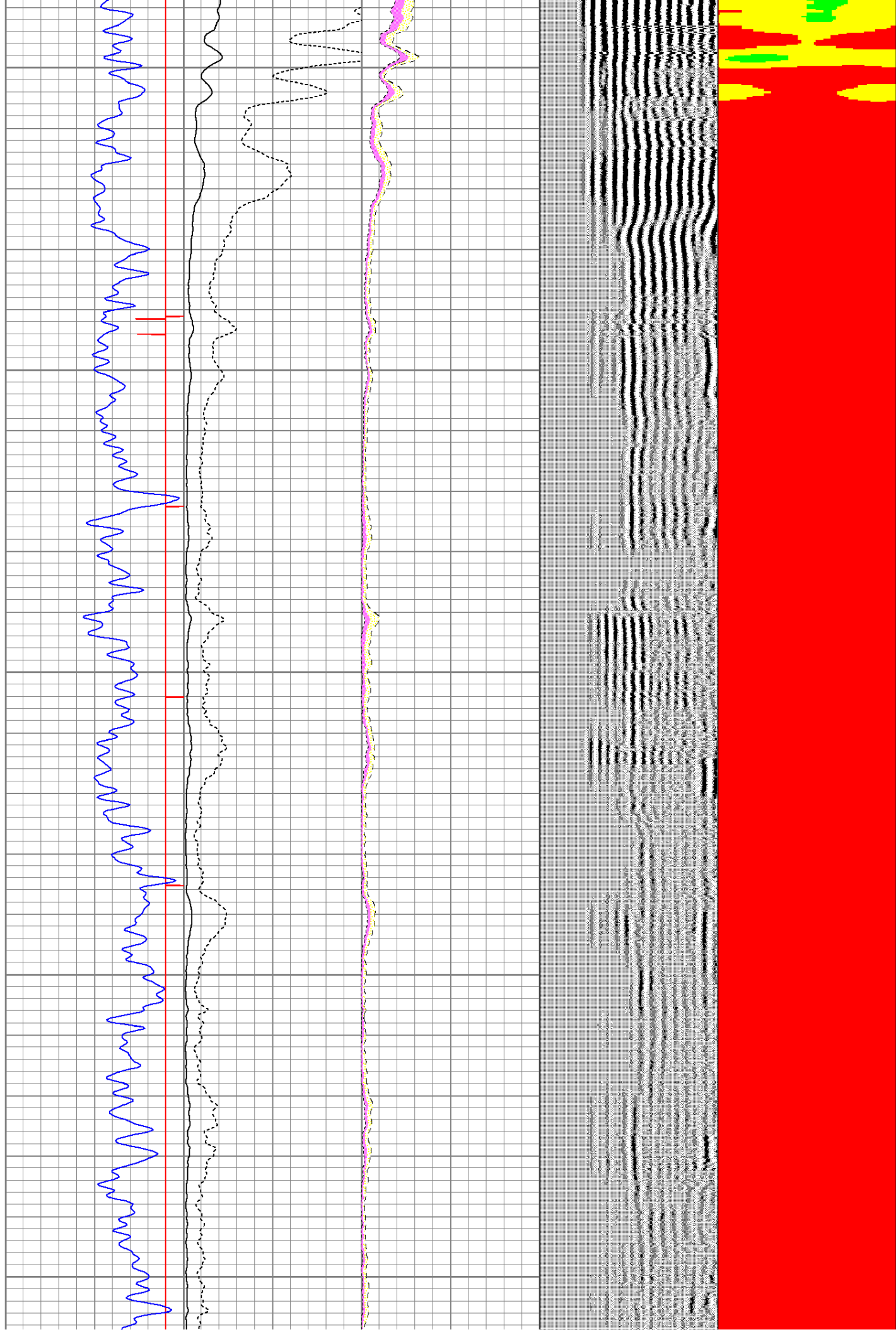
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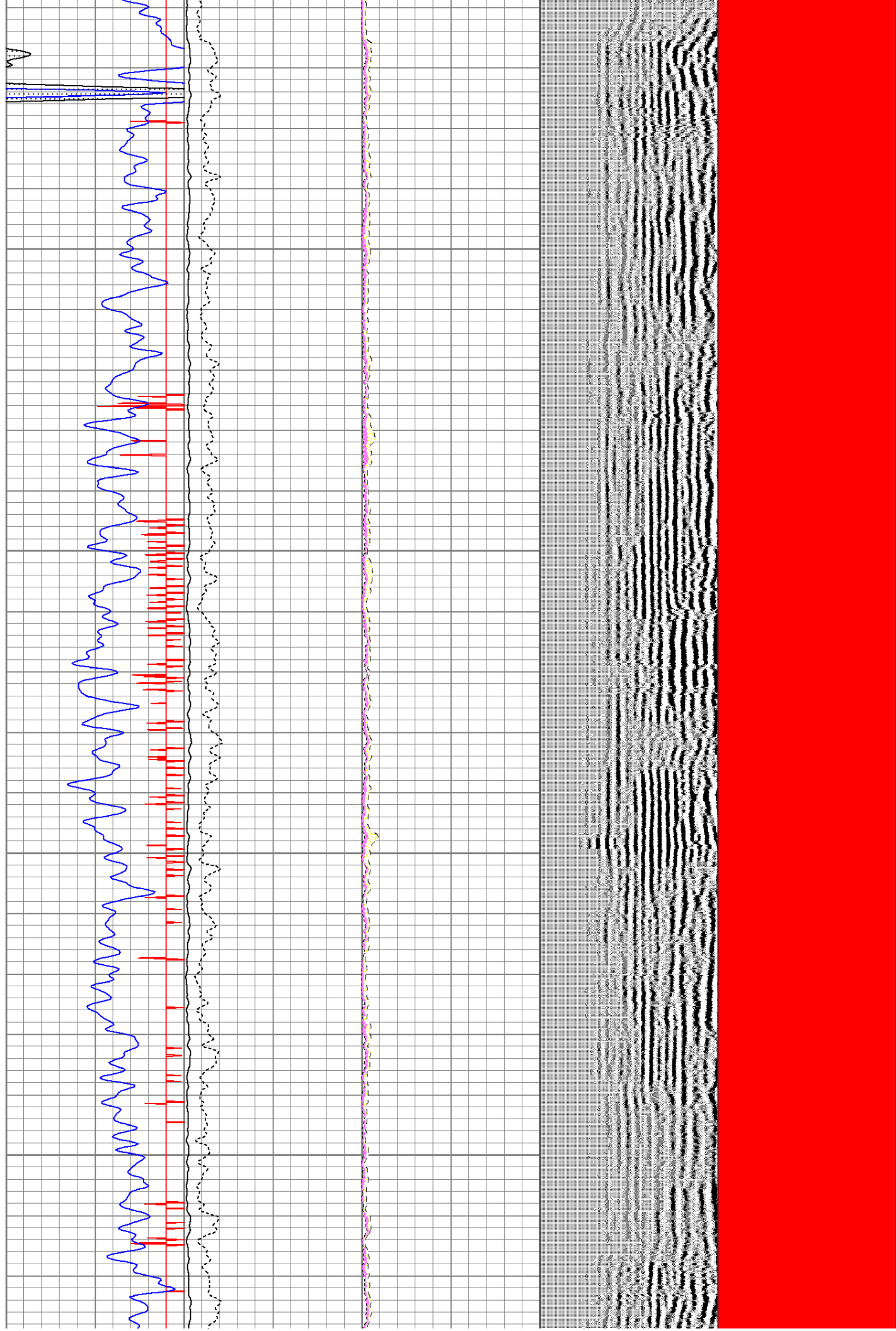
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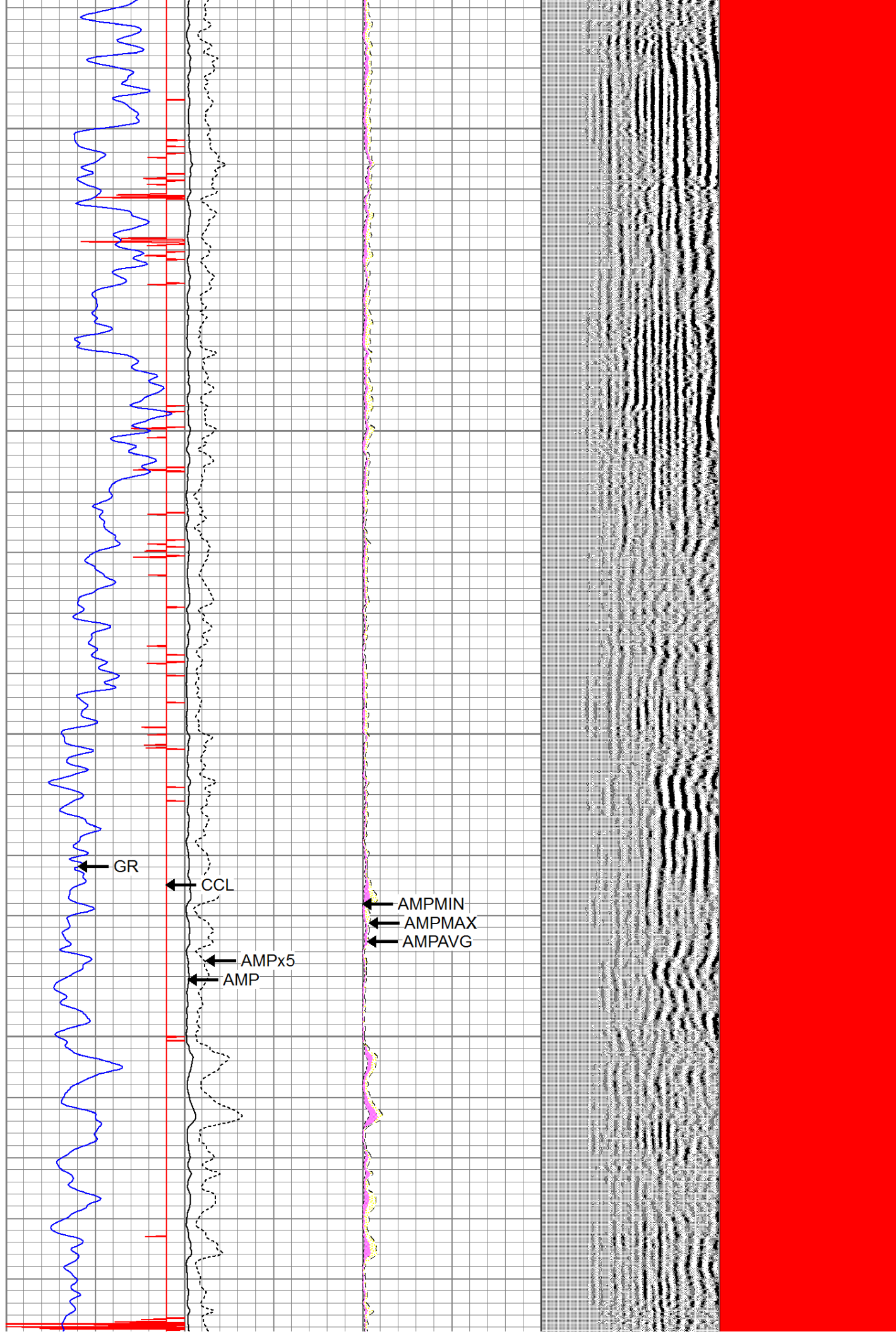
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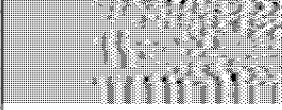
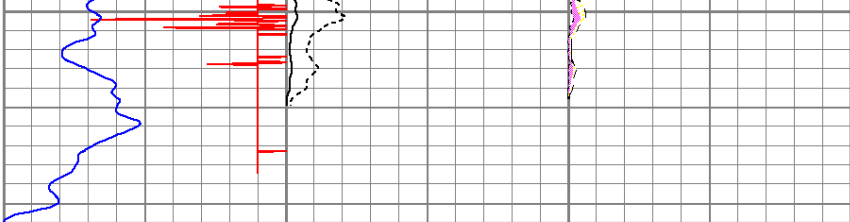


7700

7800



7900



-9	CCL	1	0	AMP (mV)	100	0	AMPAVG	150
0	GR (GAPI)	200	0	AMPx5 (mV)	20	0	AMPMAX	150
						0	AMPMIN	150

200 VDL 1200

1 SECTOR MAP 8
25 75

