



VDL CCL GAMMA-RAY RADIAL BOND LOG

Pioneer Energy Services

Company ENCANA OIL & GAS (USA) INC
Well Qualls 3B-28H
Field WATTENBERG
County WELD State COLORADO

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County WELD
State COLORADO

Location: API # : 05123372600000
SHL 812' FSL & 261' FWL
BHL 2062' FSL & 460' FEL
SEC 28 TWP 3N RGE 68W
Permanent Datum GL Elevation 4957
Log Measured From KB
Drilling Measured From KB
Other Services
Elevation
K.B. 4981'
D.F. 4980'
G.L. 4957'

Date

JULY 28/13

Run Number	ONE		
Depth Driller	11643'		
Depth Logger	7141'		
Bottom Logged Interval	7126'		
Top Log Interval	4'		
Open Hole Size	8.75"		
Type Fluid	WATER		
Density / Viscosity	NA		
Max. Recorded Temp.	NA		
Estimated Cement Top	700'		
Time Well Ready	NA		
Time Logger on Bottom	NA		
Equipment Number	9605		
Location	FT MORGAN		
Recorded By	TODD YOUNG		
Witnessed By	CHARLIE PARKER		

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String				
Prot. String	7"	26#	SURFACE	7141'
Production String				
Liner				

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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 # 2-204205

THANK YOU FOR USING
PIONEER ENERGY SERVICES

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

Tool Name	Length (ft)	Weight (lb)	Diameter (in)	Tool Description	Length (ft)	Weight (lb)	Diameter (in)
PTS275	2.83	2.75		Probe Radii Bond Tool with Digital Telemetry	2.83	2.75	
WVF3FT	12.75						
WVFCAL	12.75						
WVFS1	12.75						
WVFS2	12.75						
WVFS3	12.75						
WVFS4	12.75						
WVFS5	12.75						
WVFS6	12.75						
WVFS7	12.75						
WVFS8	12.75						
WVF5FT	11.67						
CCL	4.89						
GR	2.15						
TEMP	0.08						
PTS275	2.83	2.75		Probe Radii Bond Tool with Digital Telemetry	2.83	2.75	
GR-Probe (275)	4.33	2.75		Probe 2.75" 4 Channel Pulse	4.33	2.75	
TEMP-1.375TEMP (0001)	1.25	1.38		Temperature Tool	1.25	1.38	

Dataset: qualls 3b-28h.db: field/well/run1/pass5

Total Length: 20.17 ft

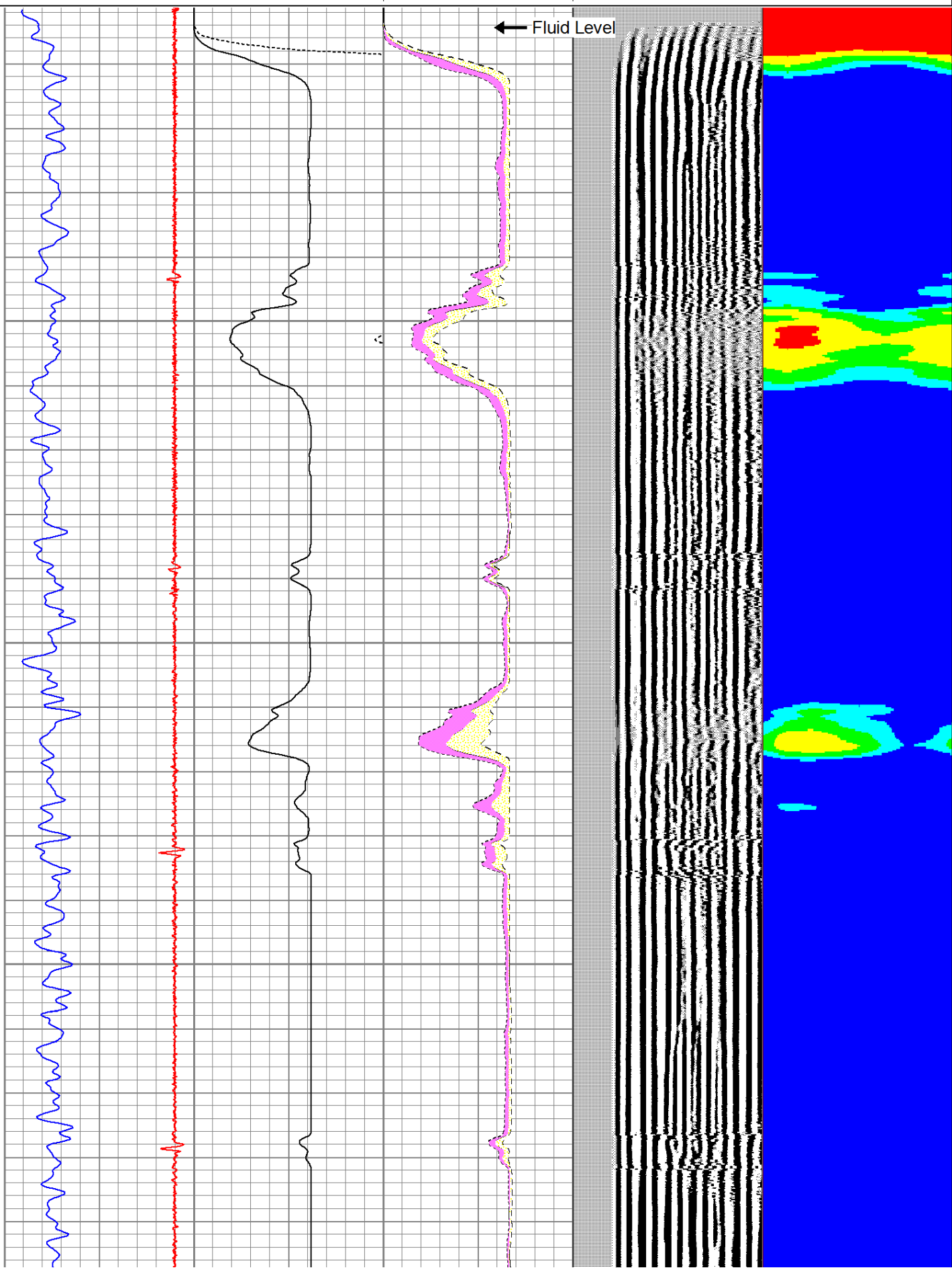
Total Weight: 150.00 lb

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)	175	0	AMPx5 (mV)	20	0	AMPMAX	150				25		75
						0	AMPMIN	150						

100

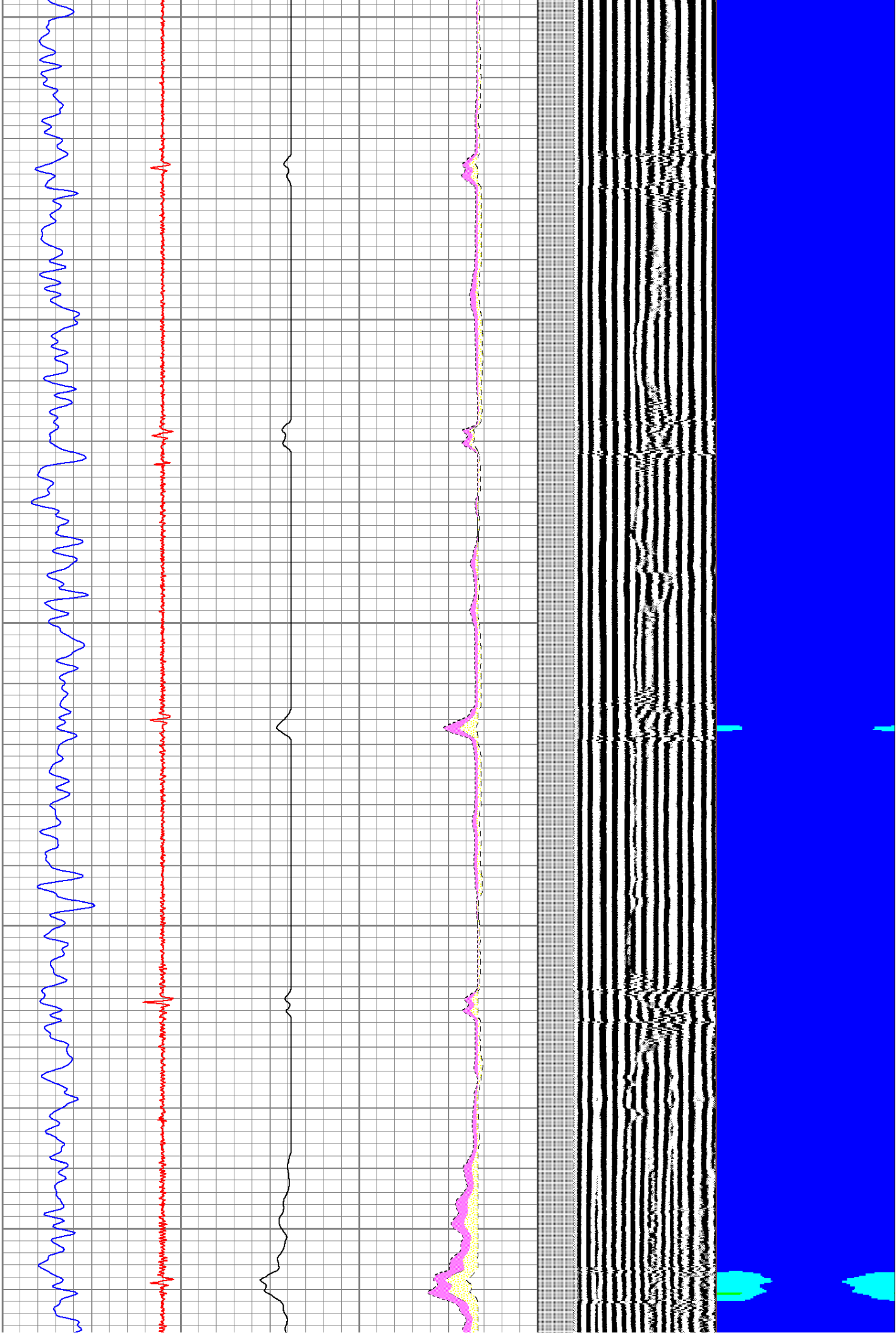
← Fluid Level



200

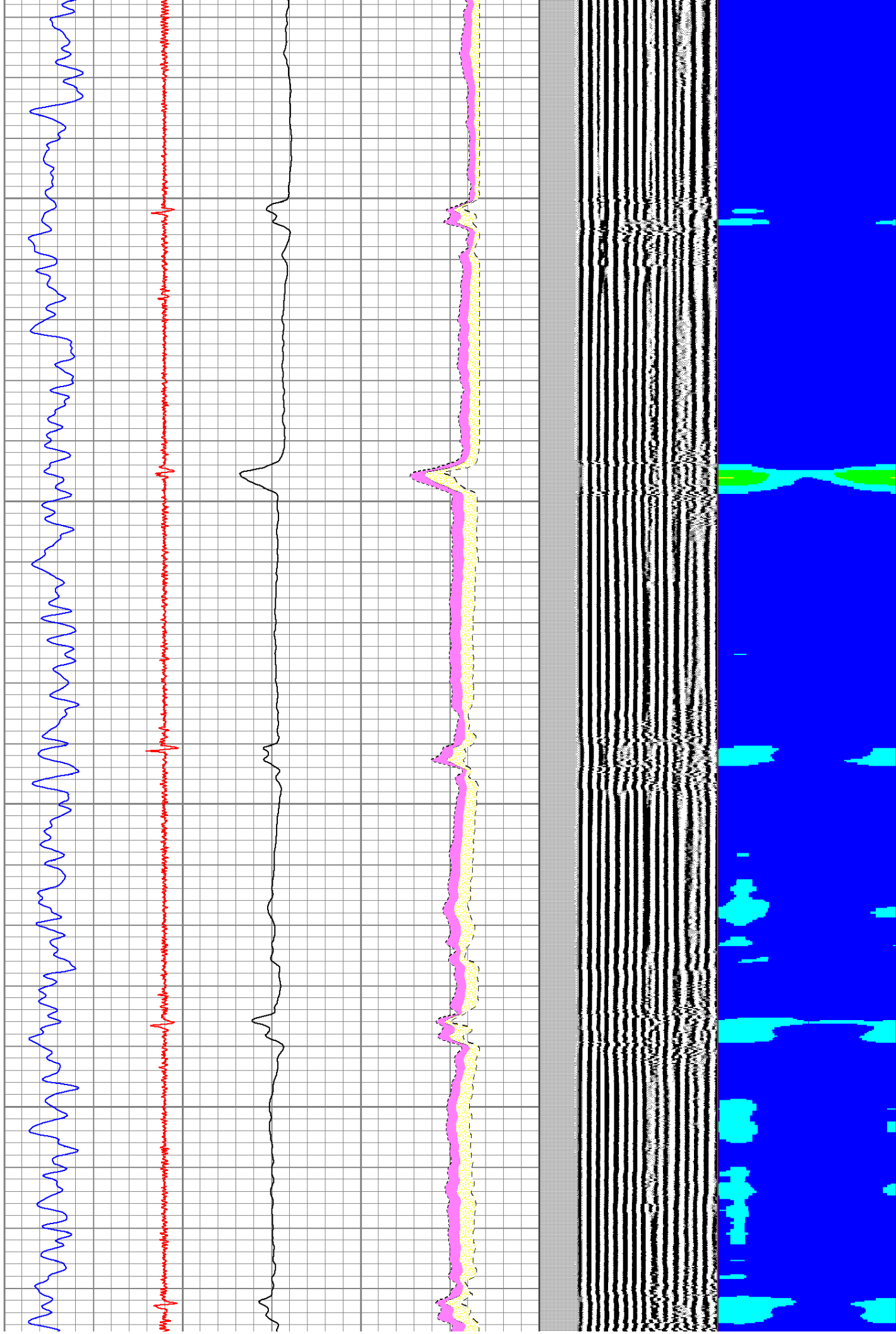
300

400



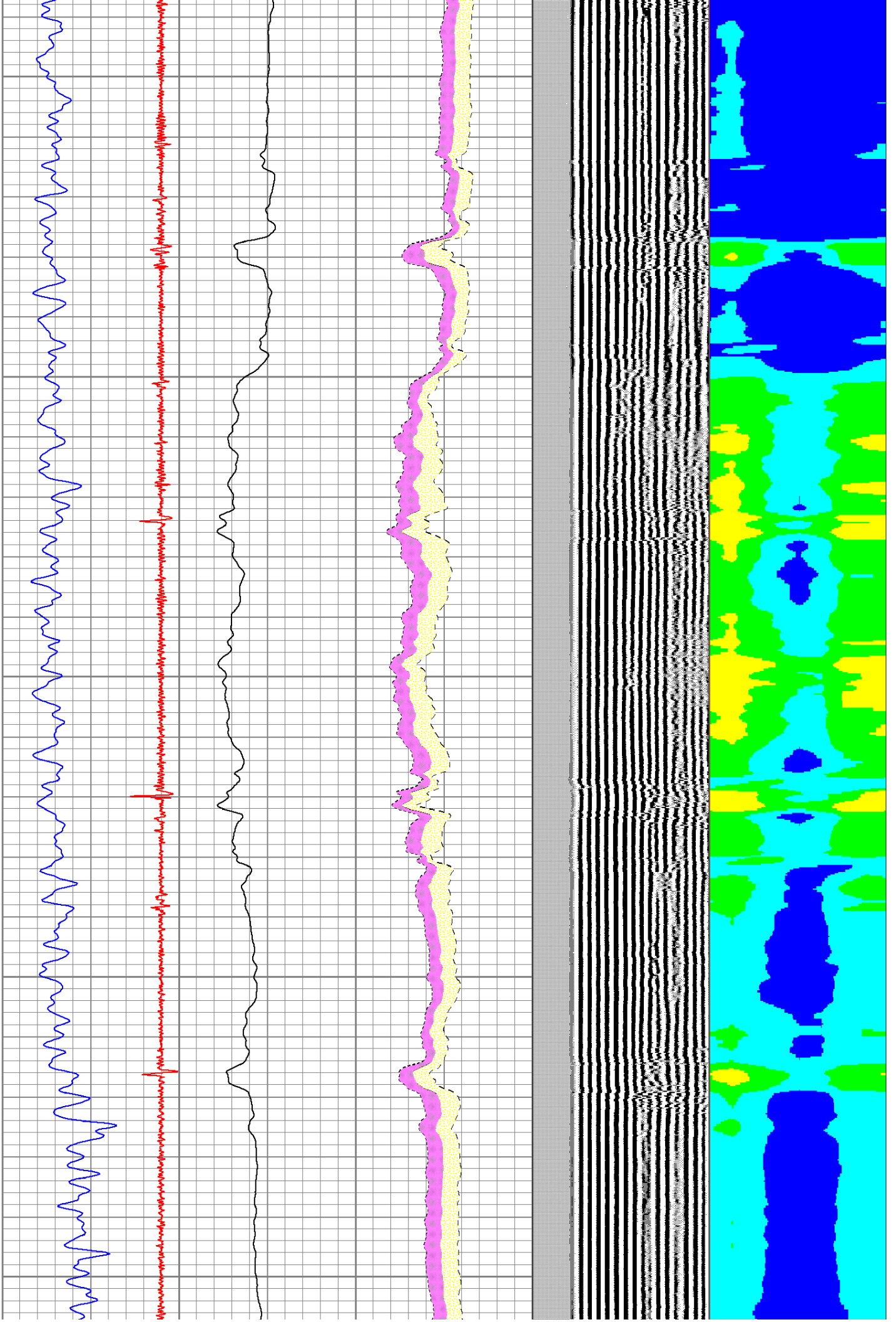
500

600



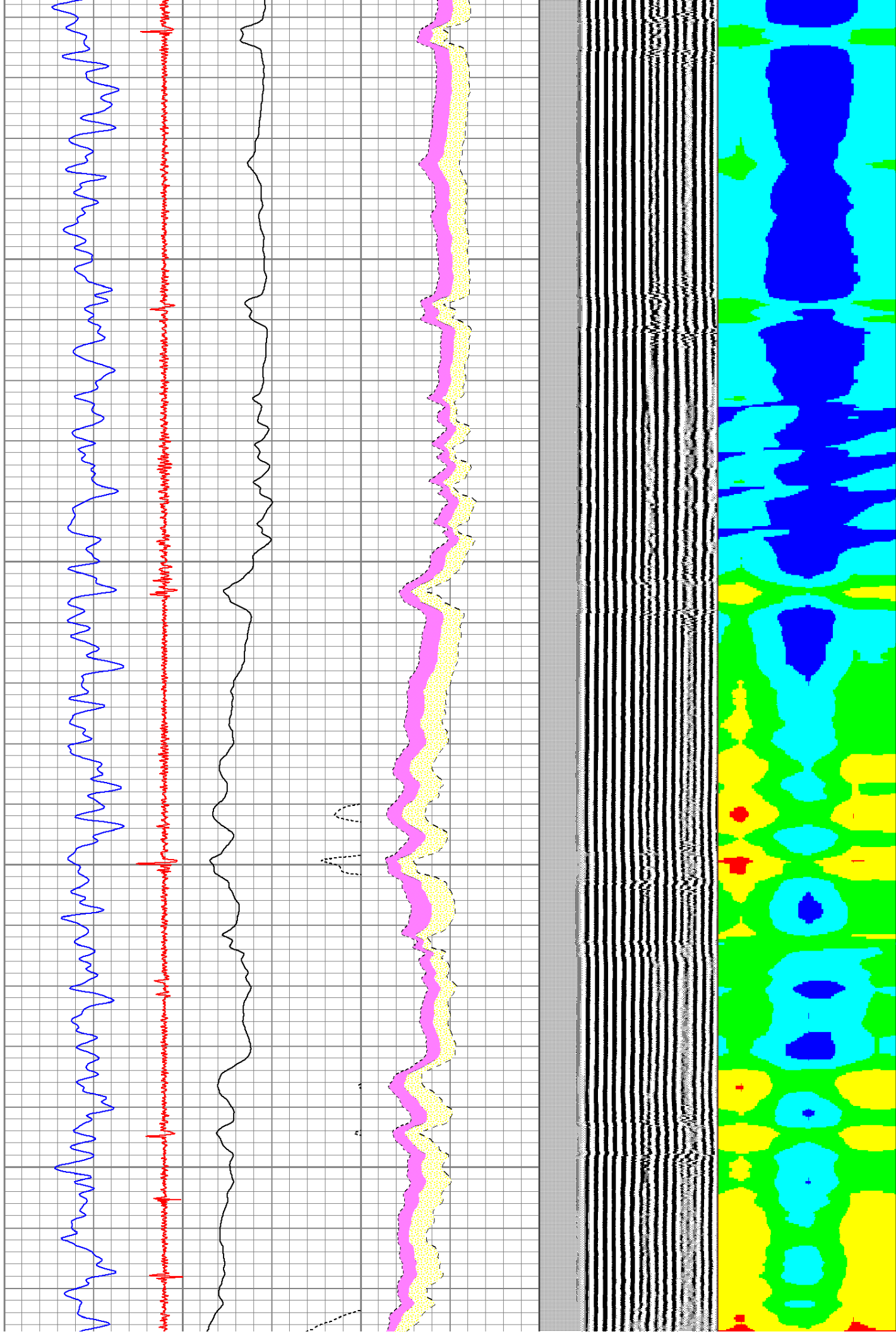
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800



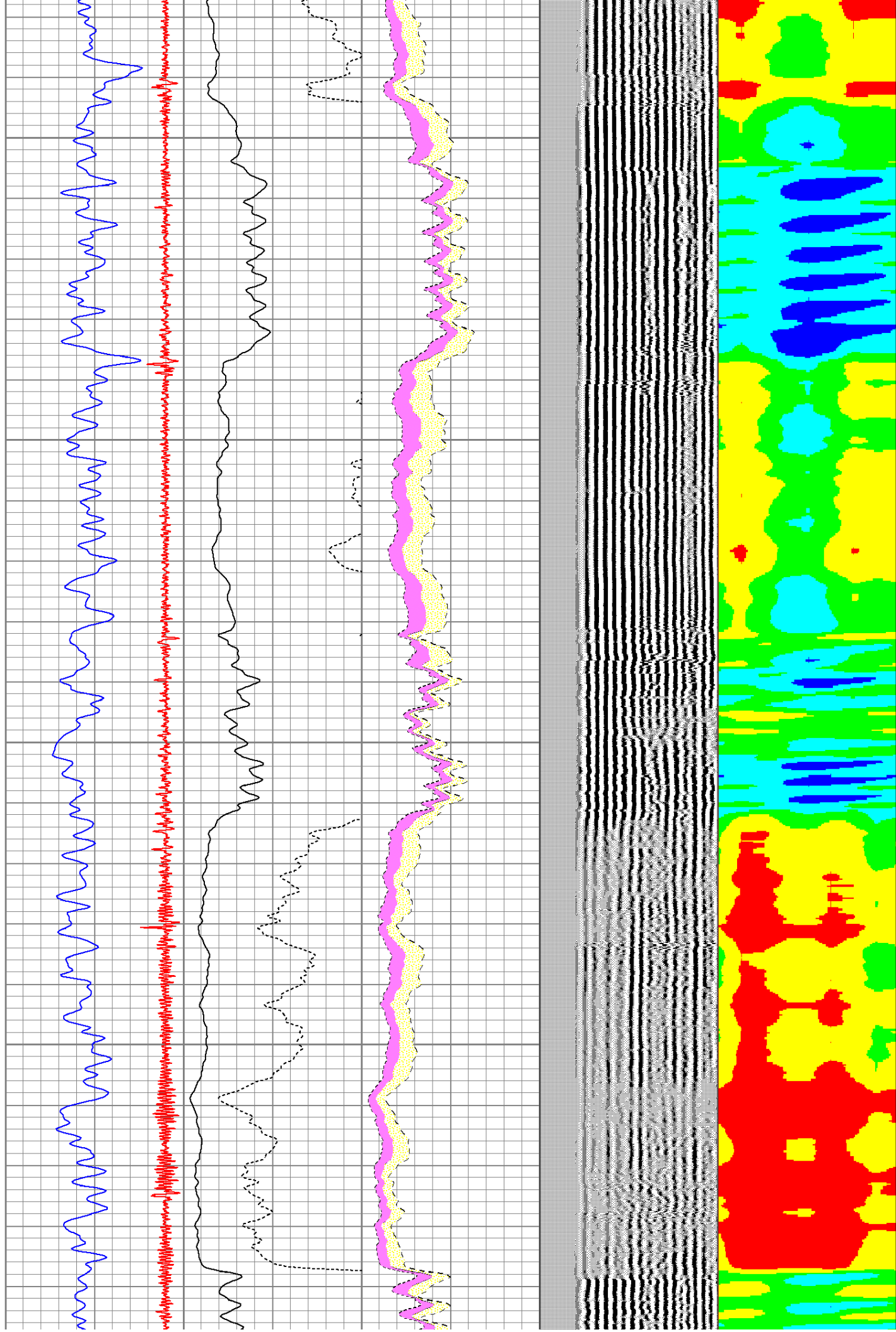
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1000



1100

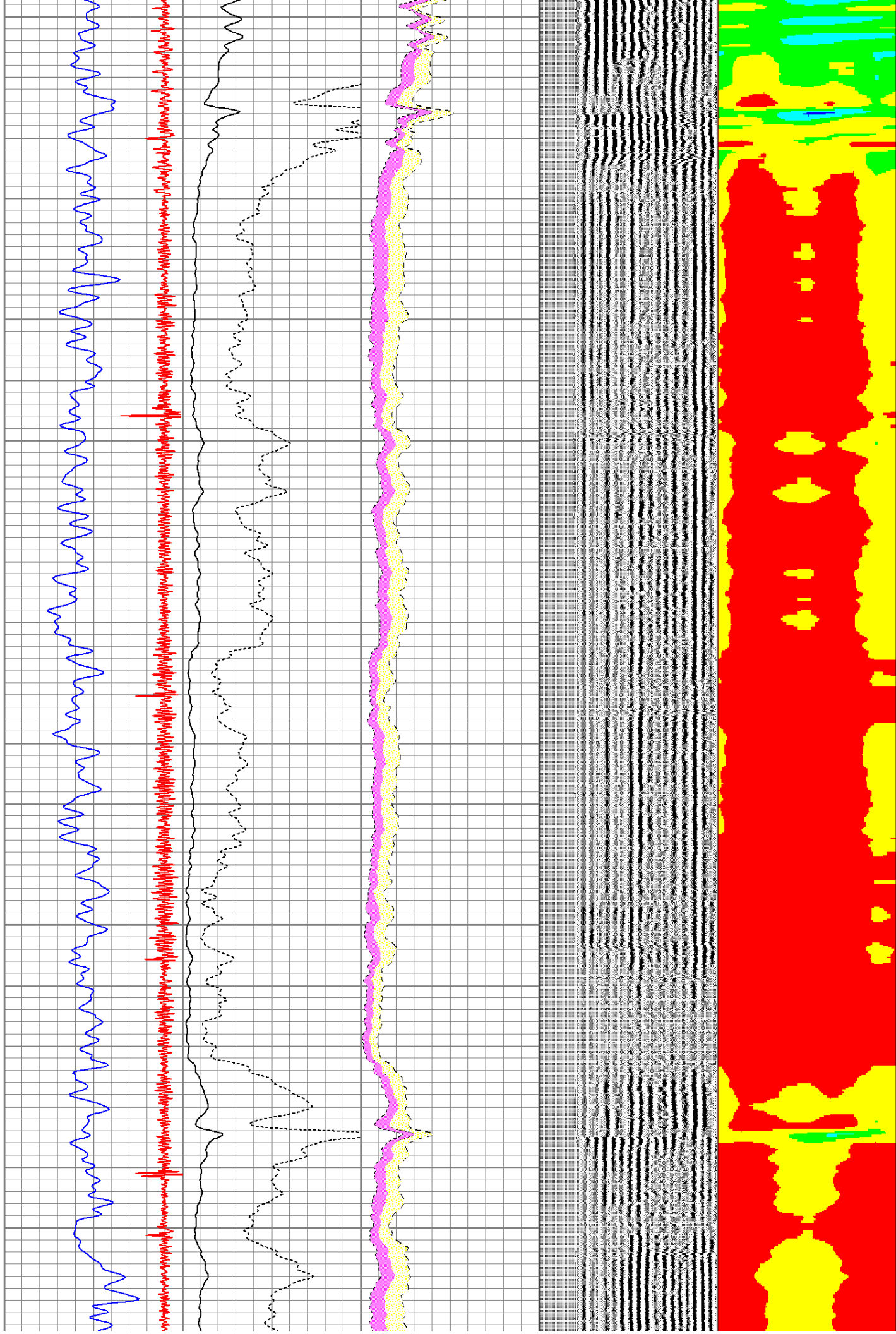
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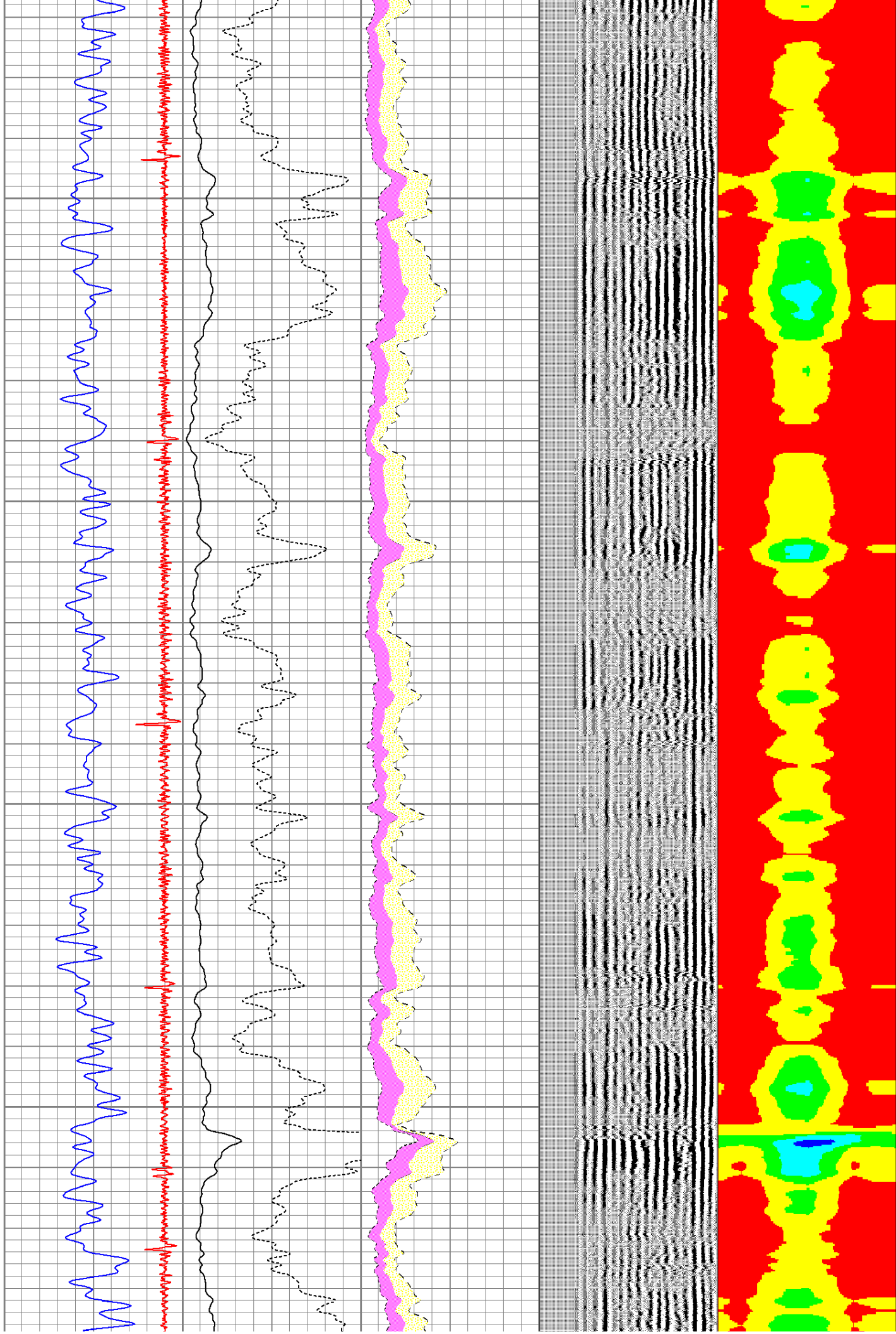
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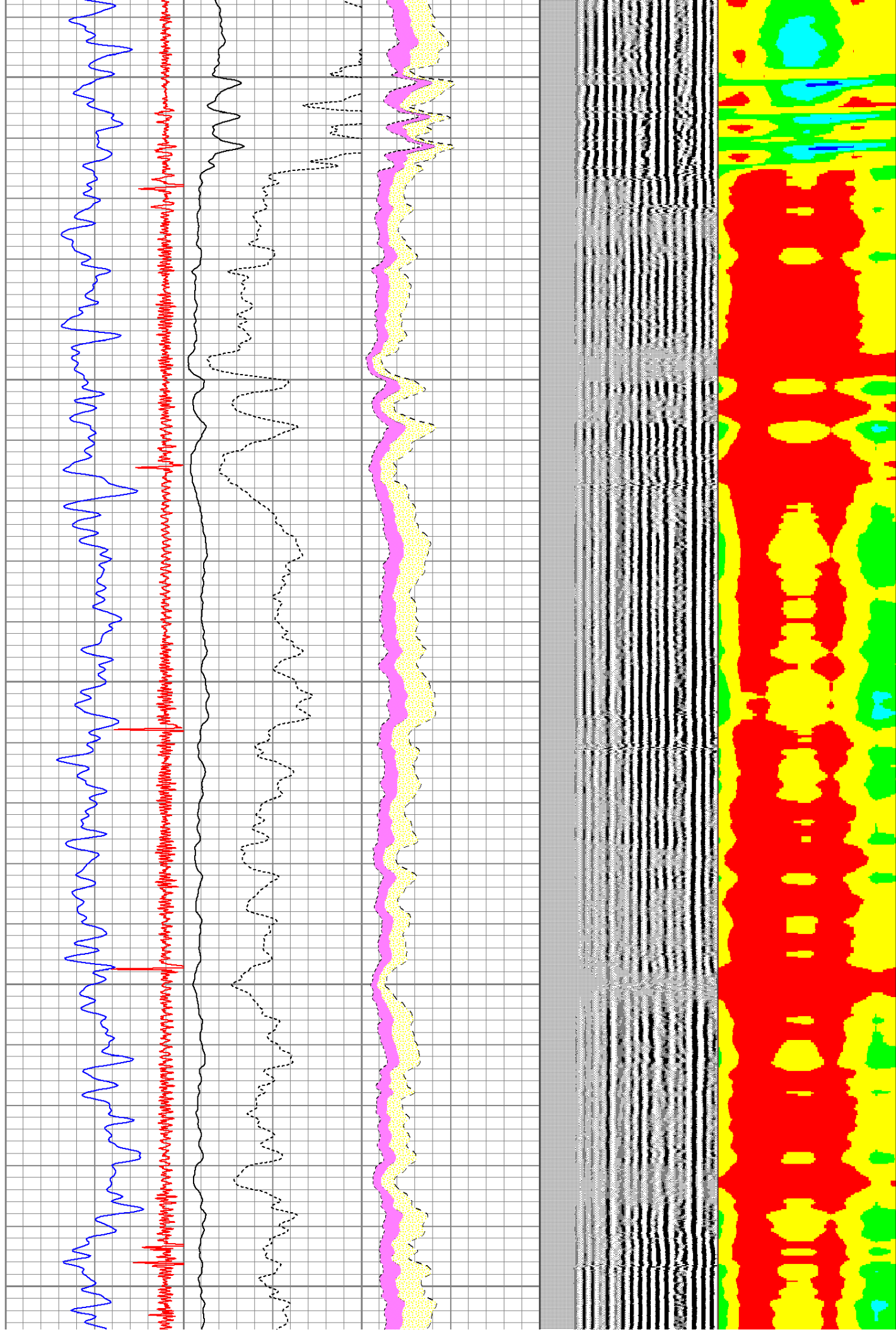
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1700



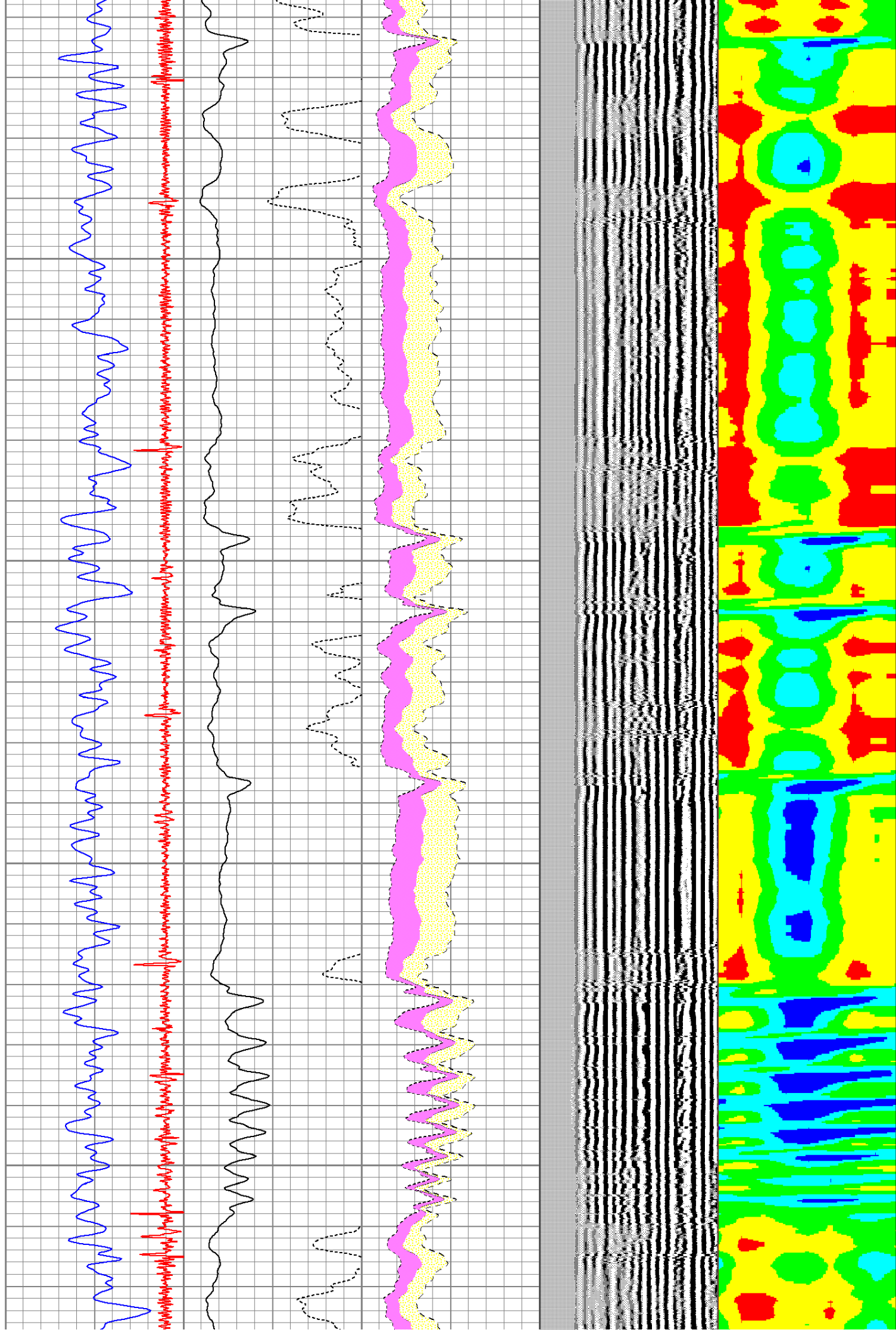
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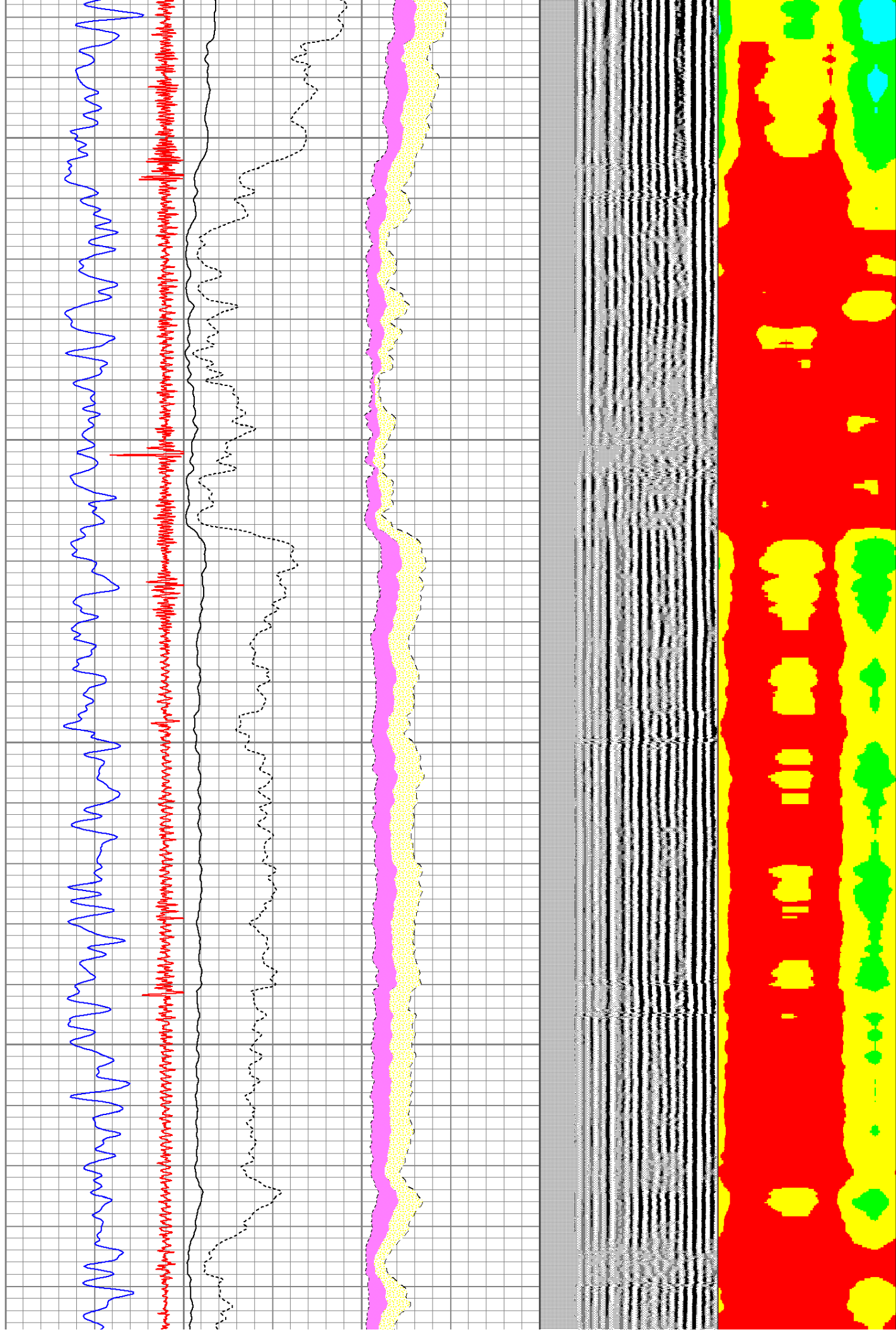
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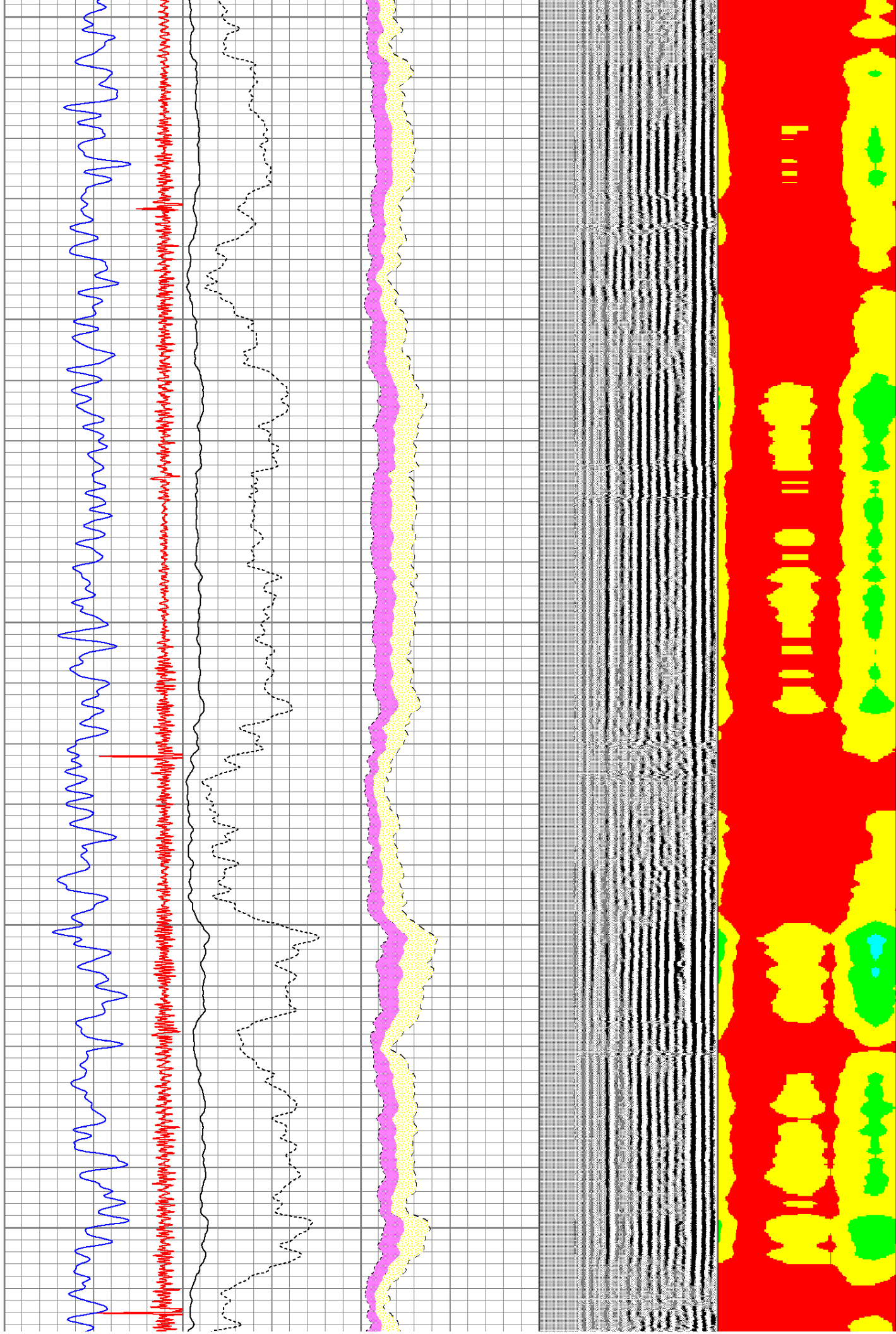
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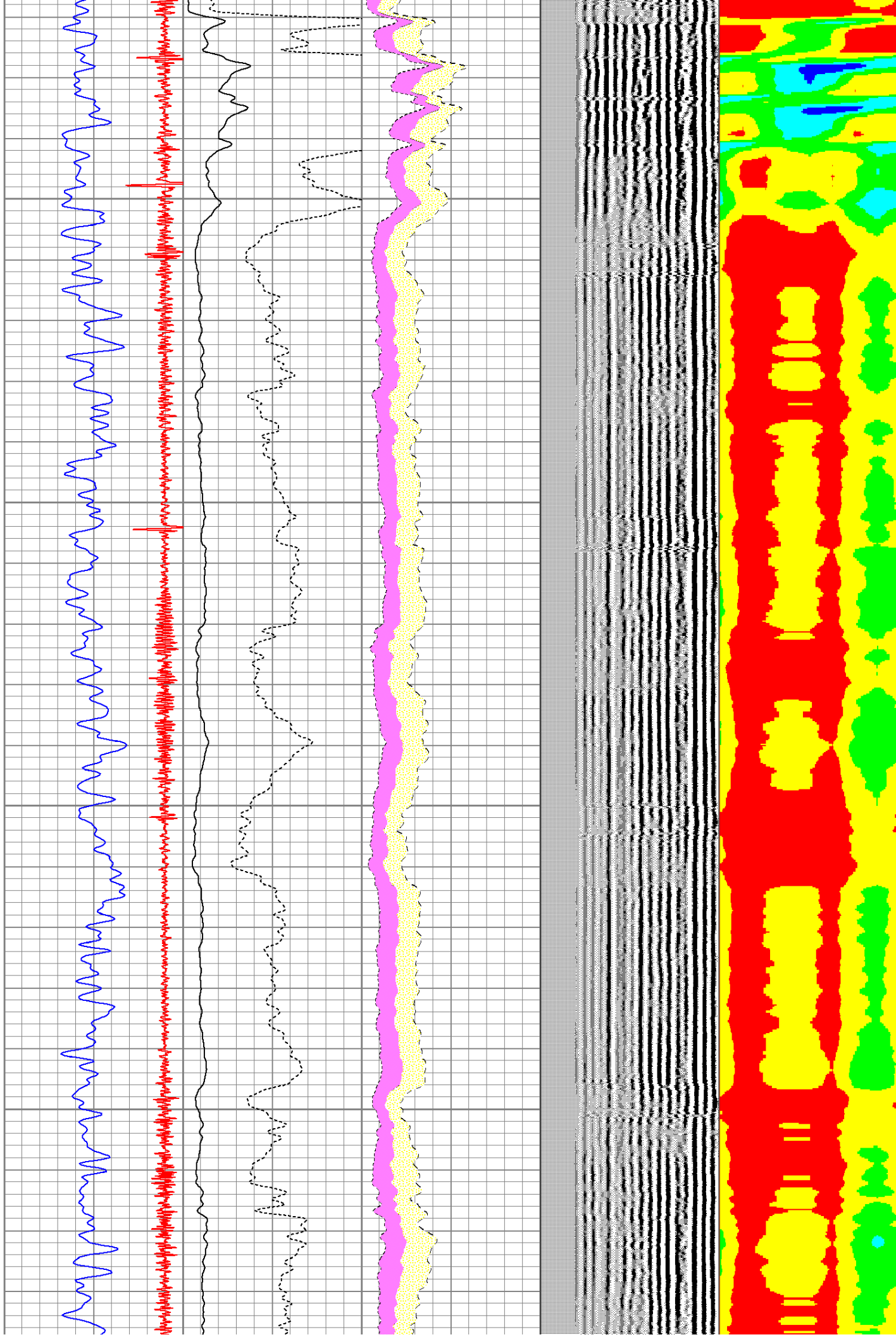
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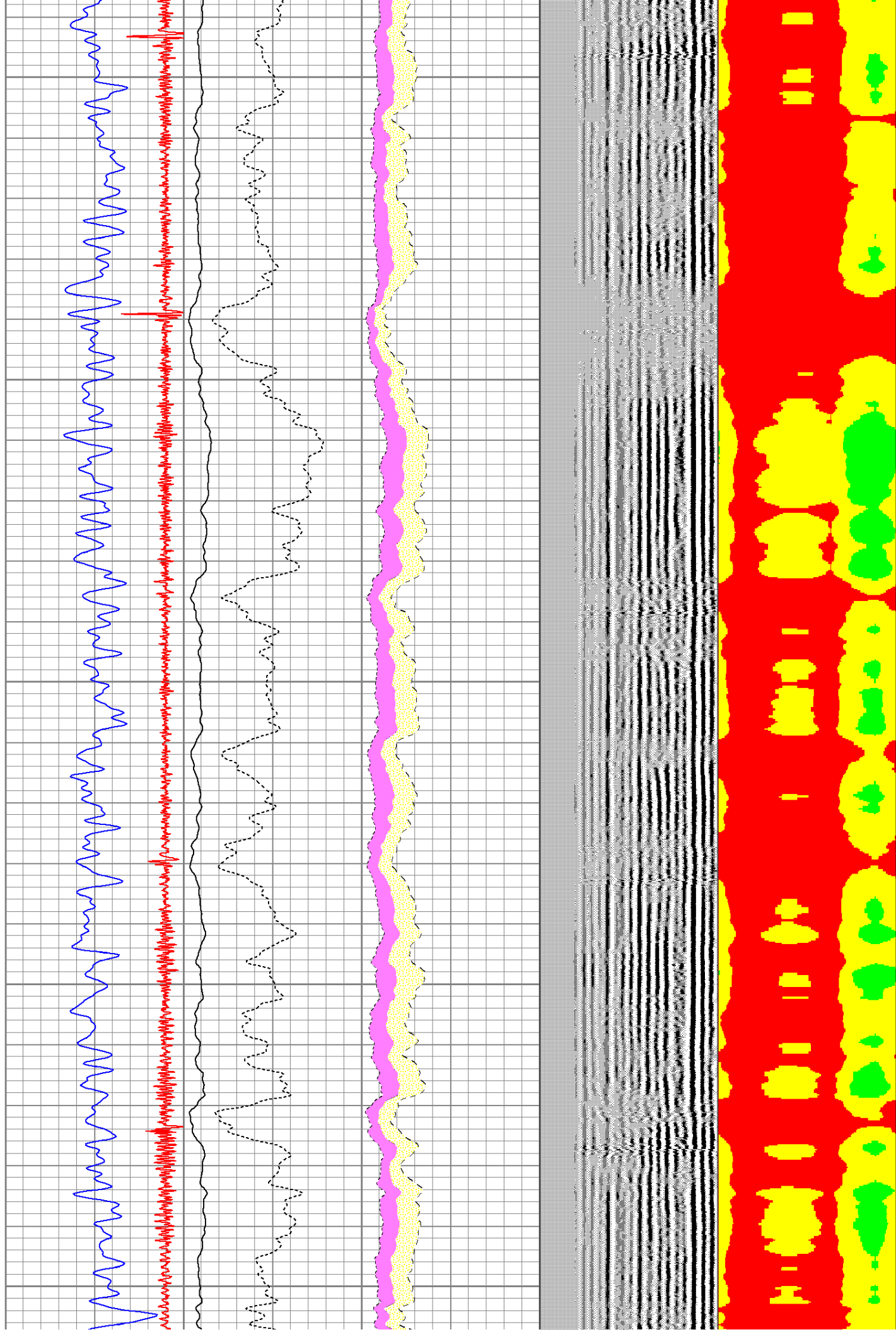
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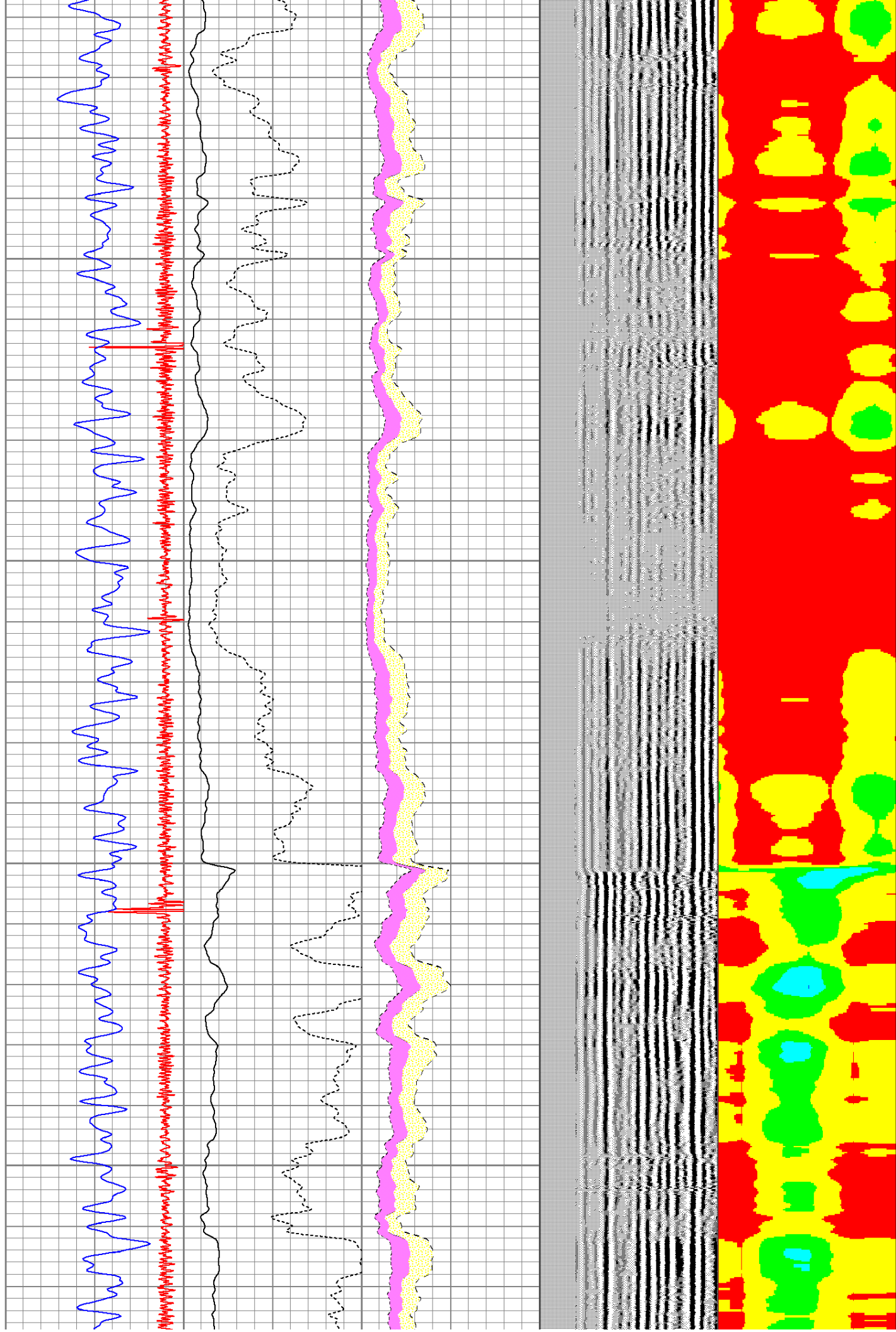
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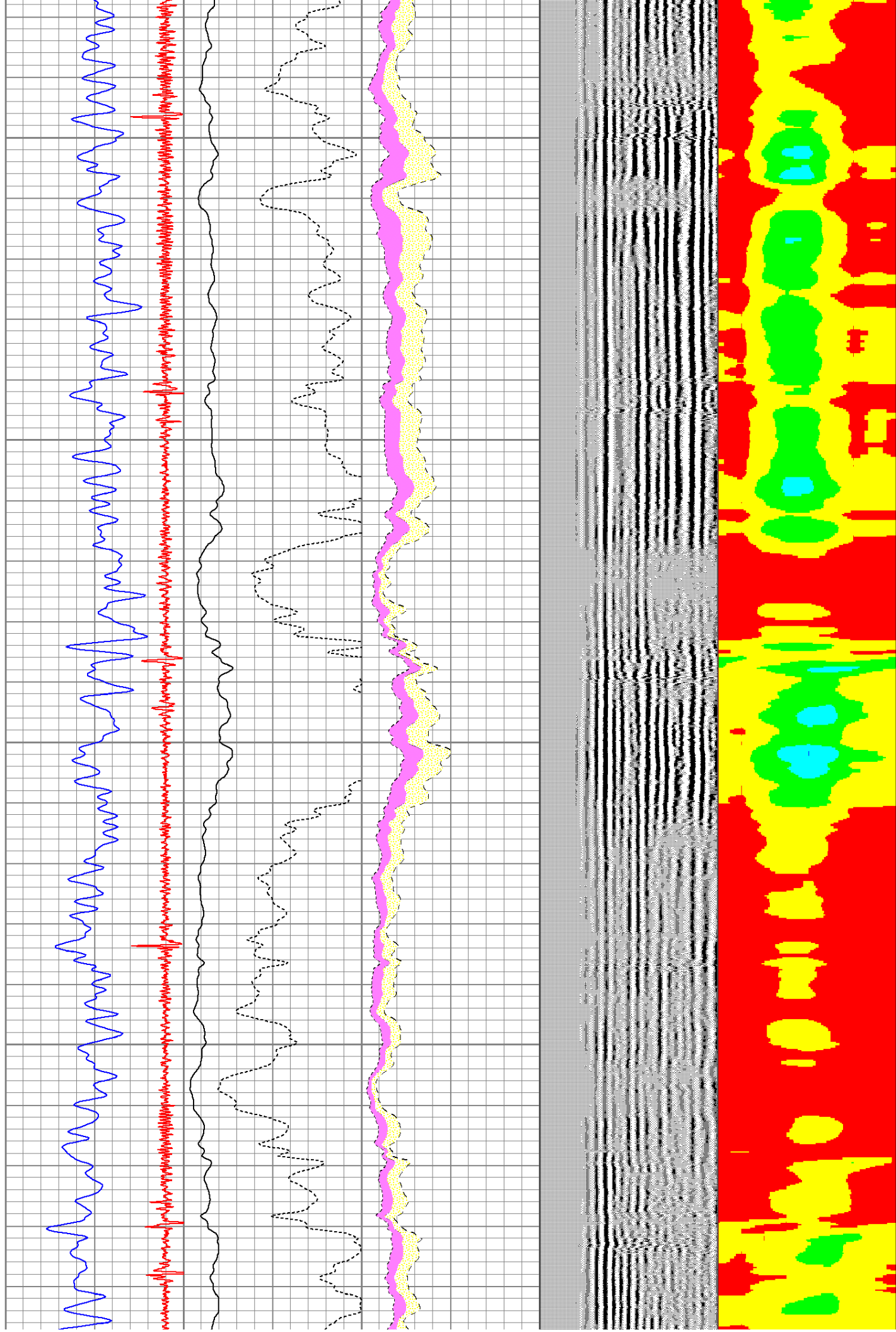
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3200



3300

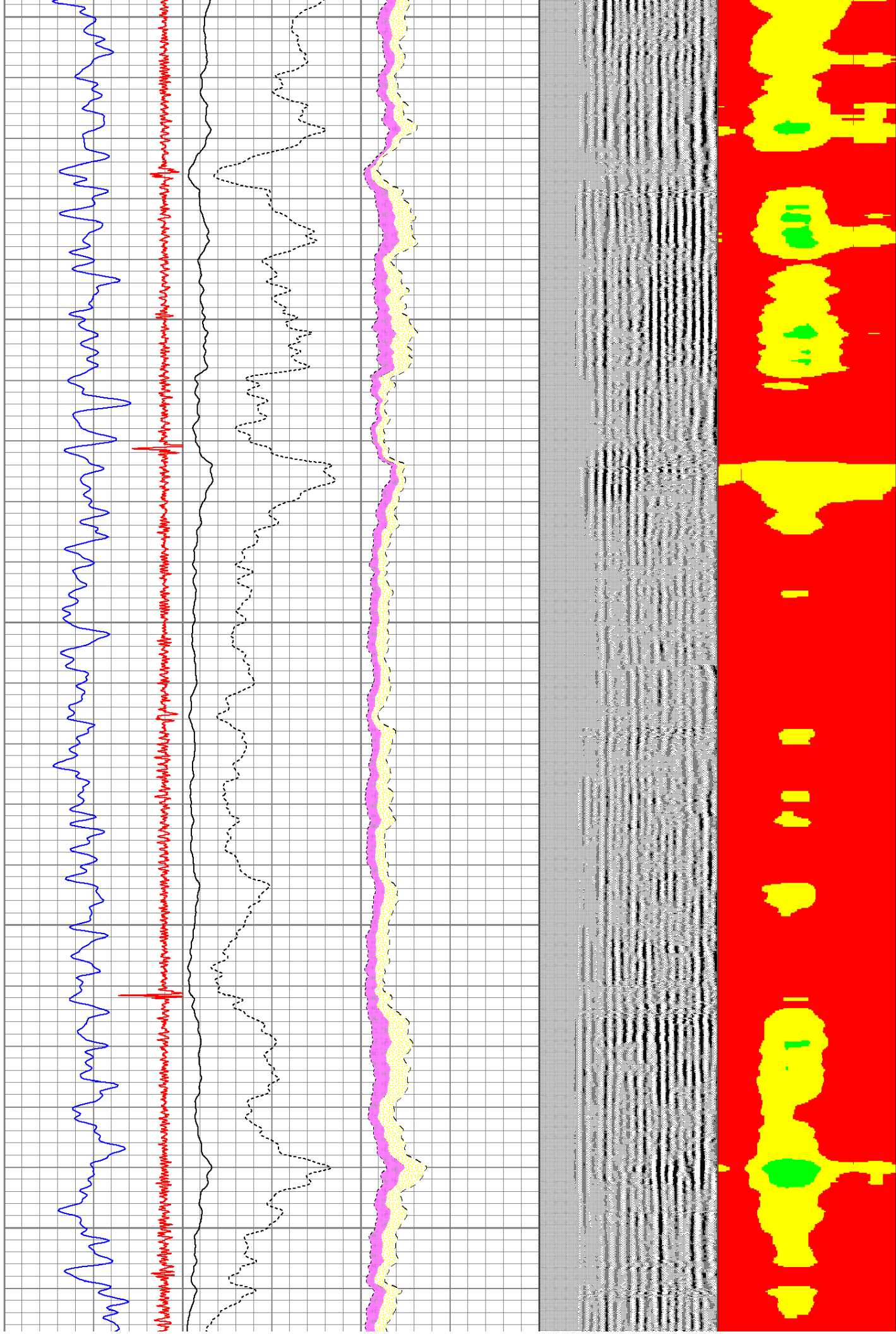
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3500

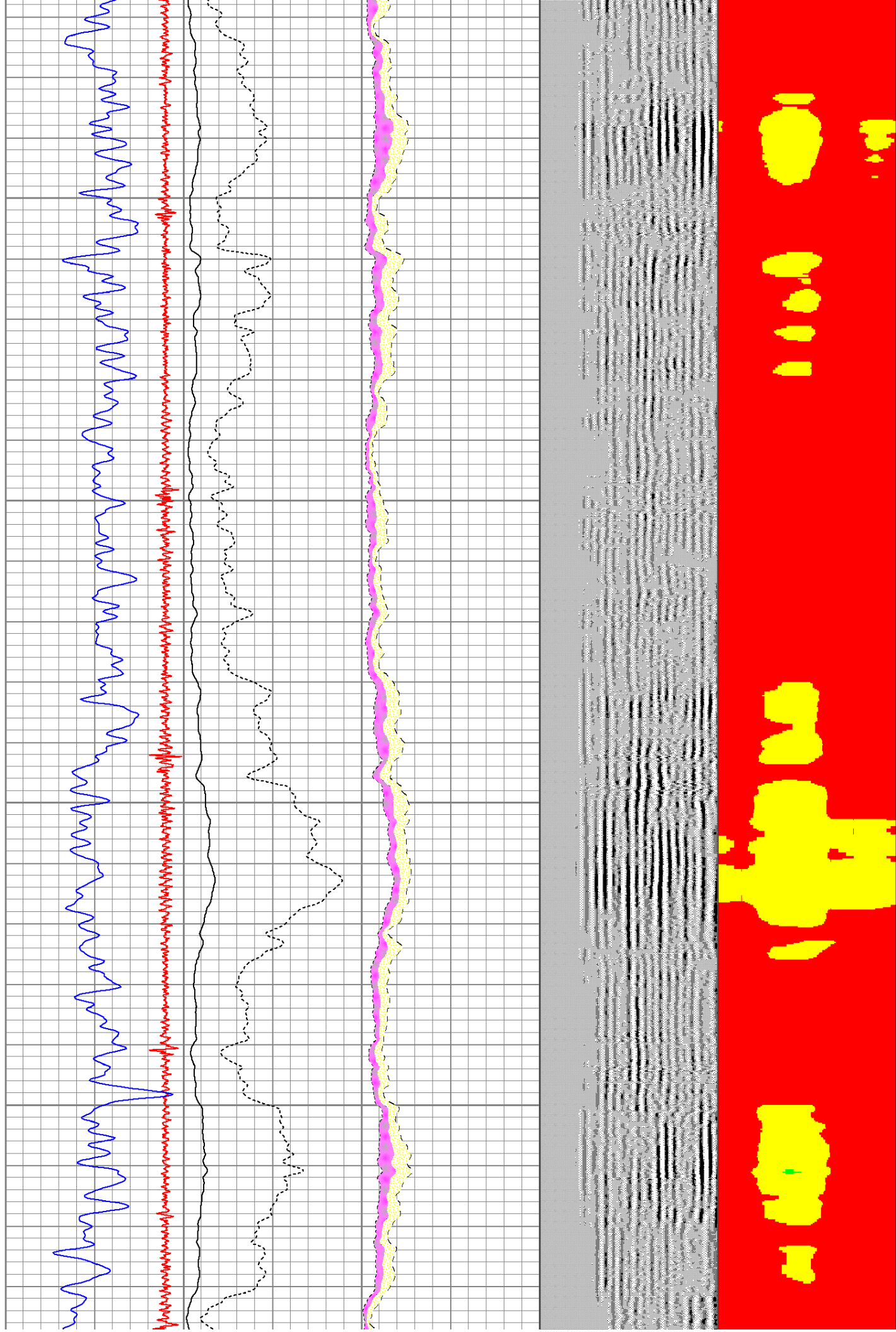
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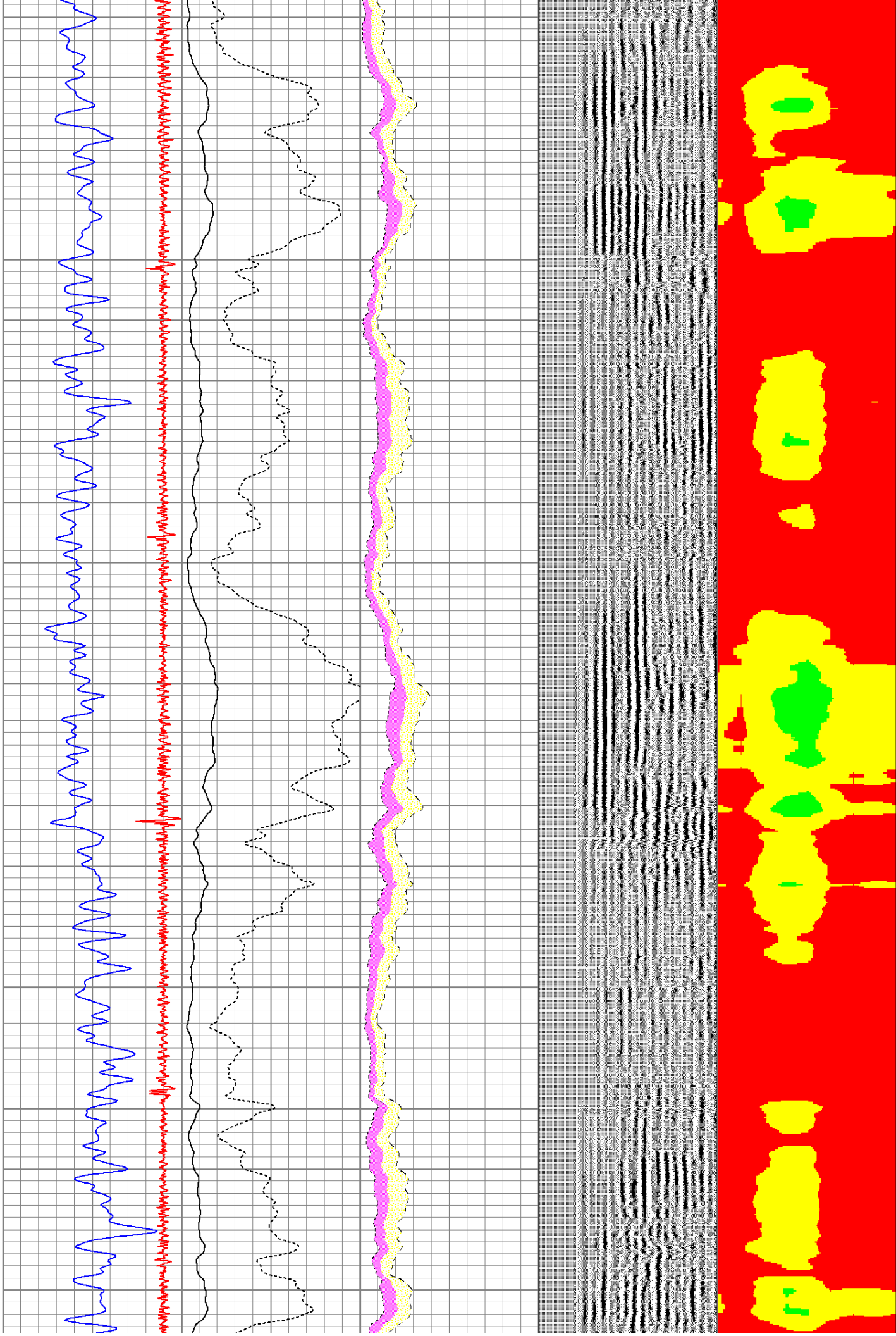
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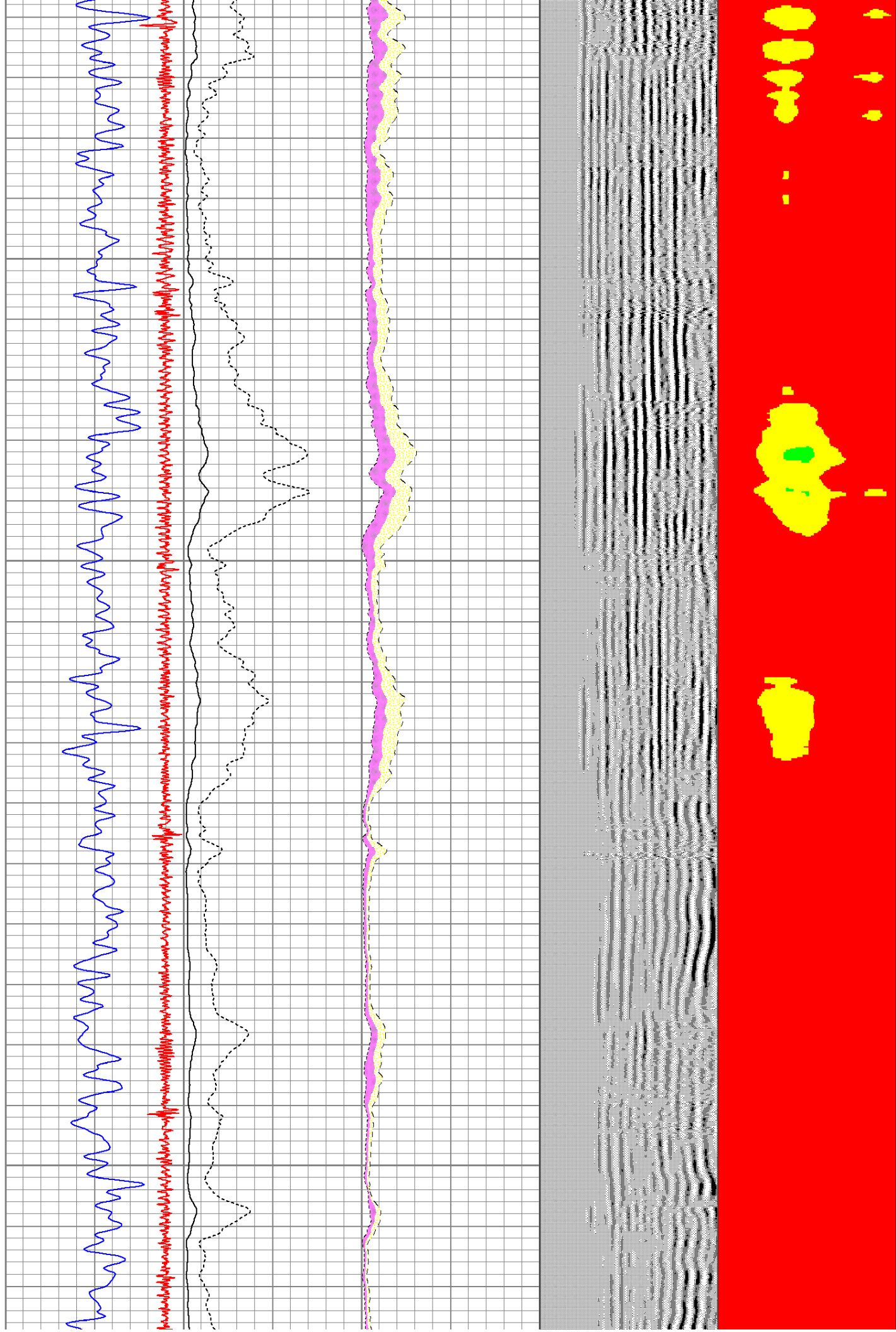
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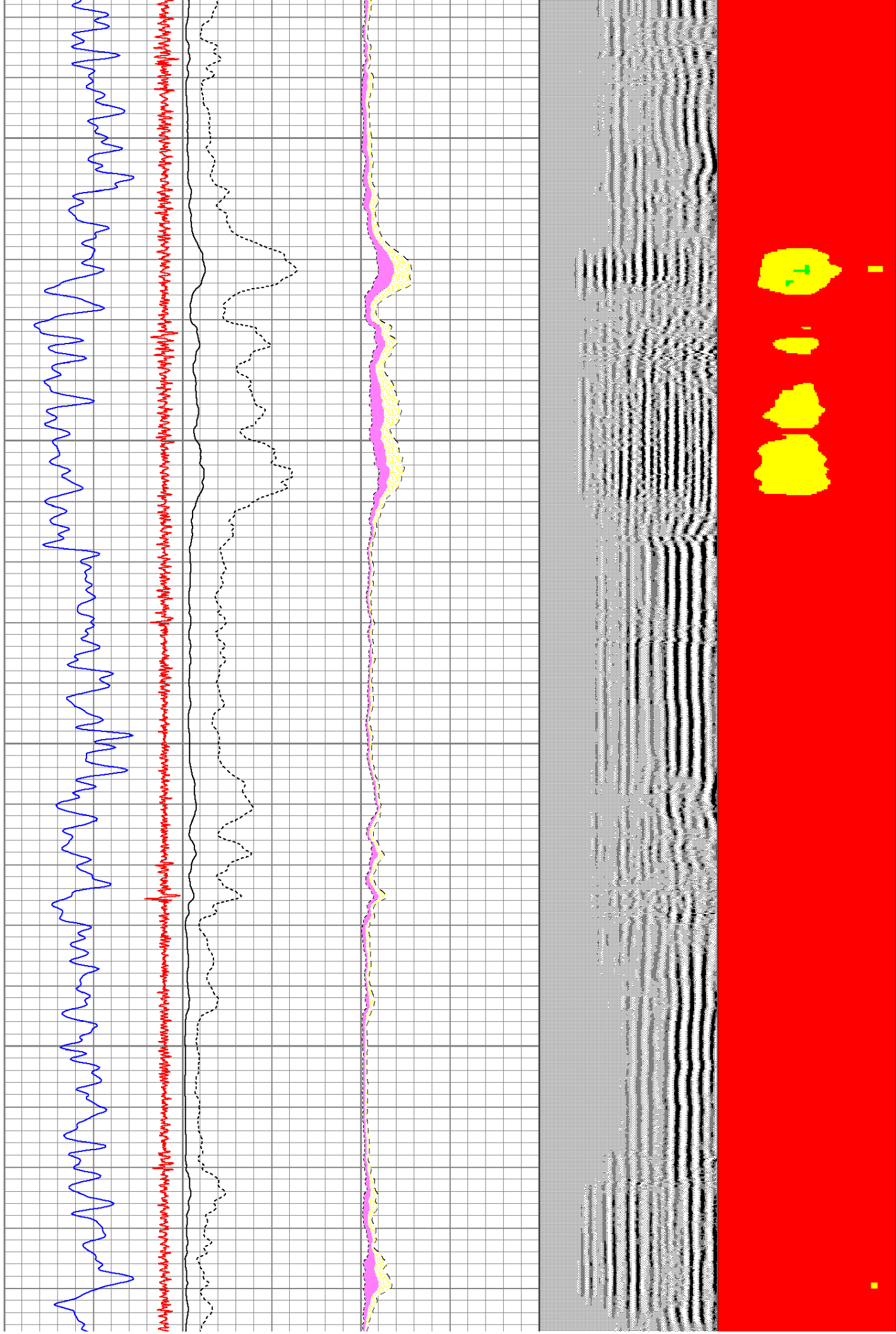
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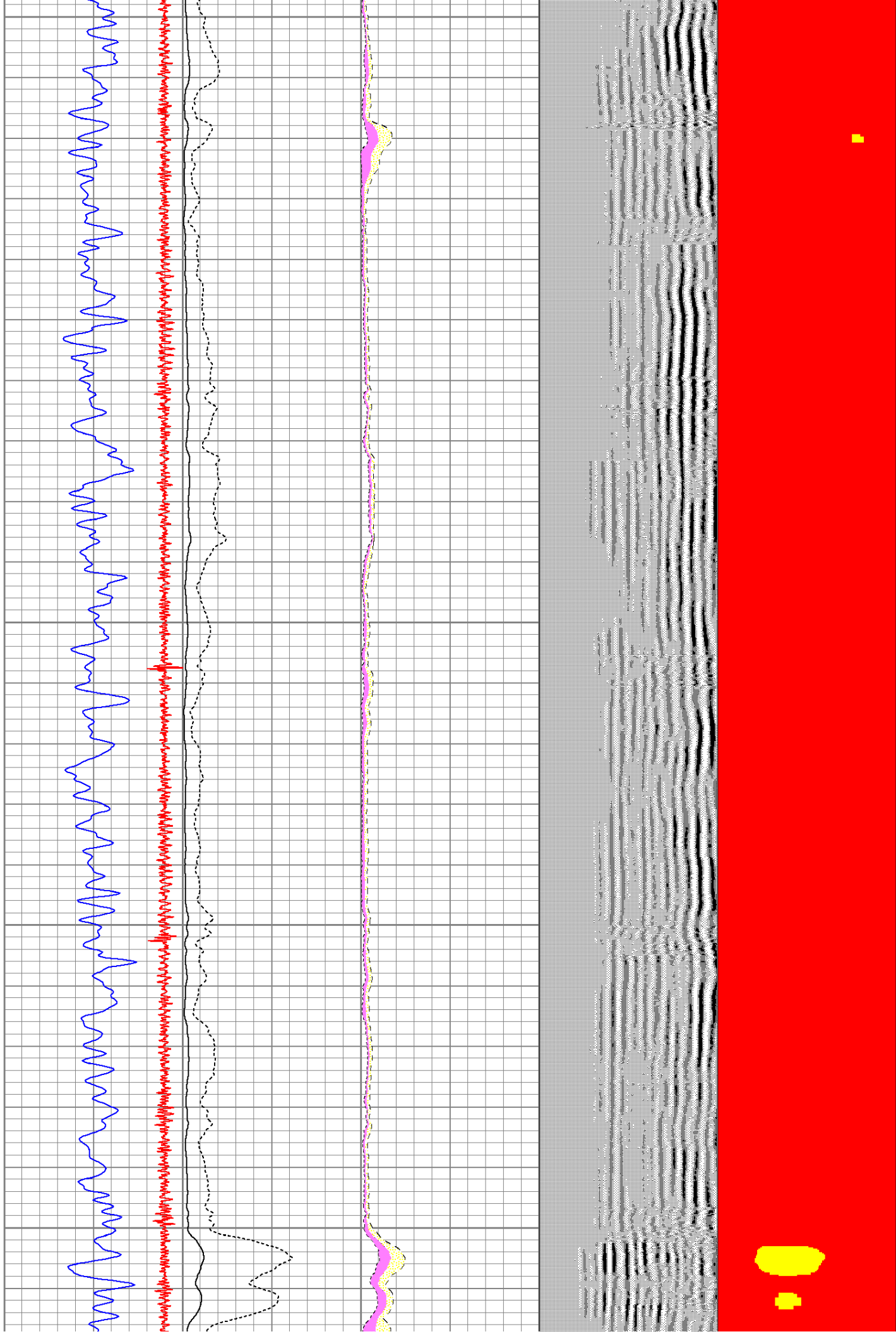
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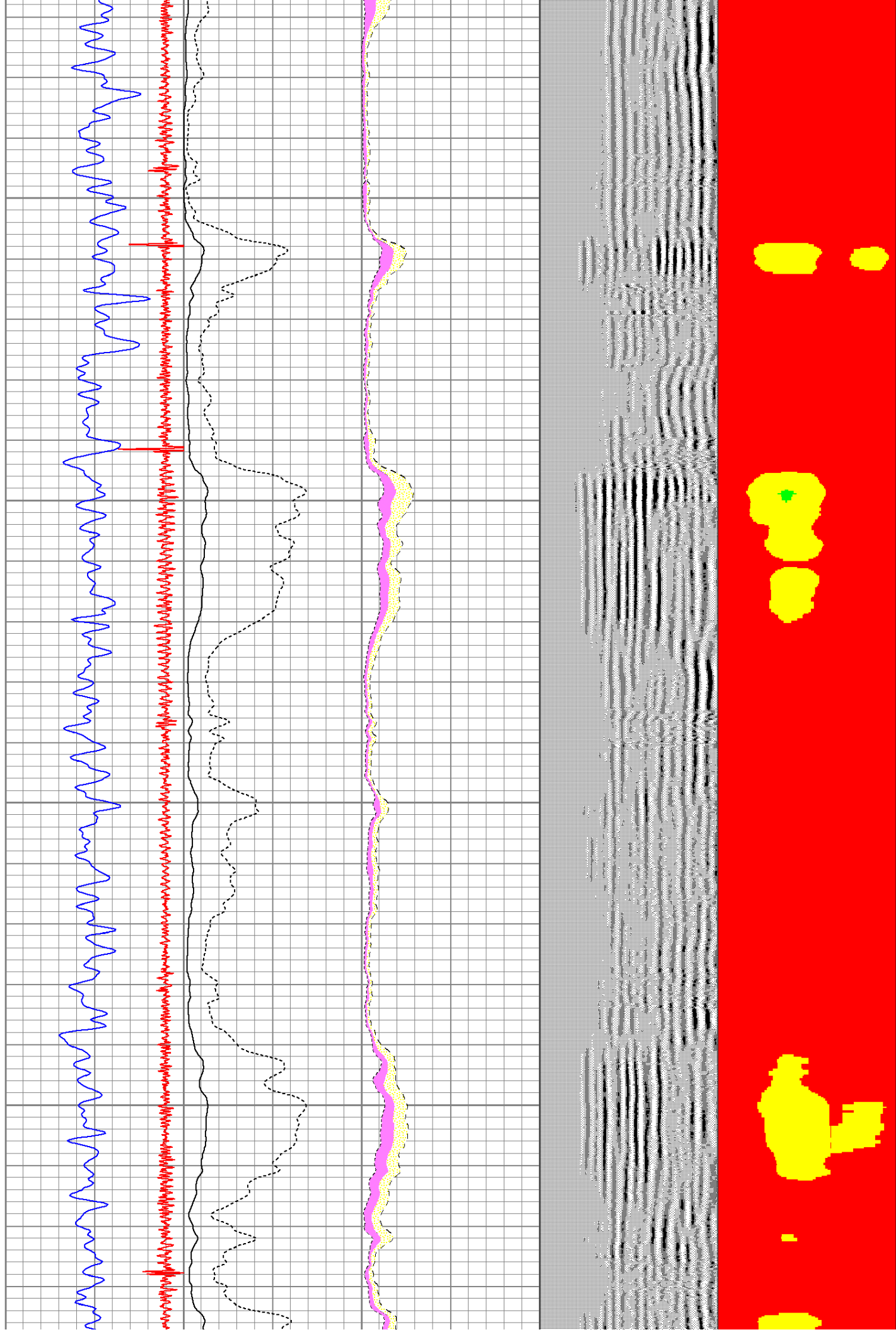
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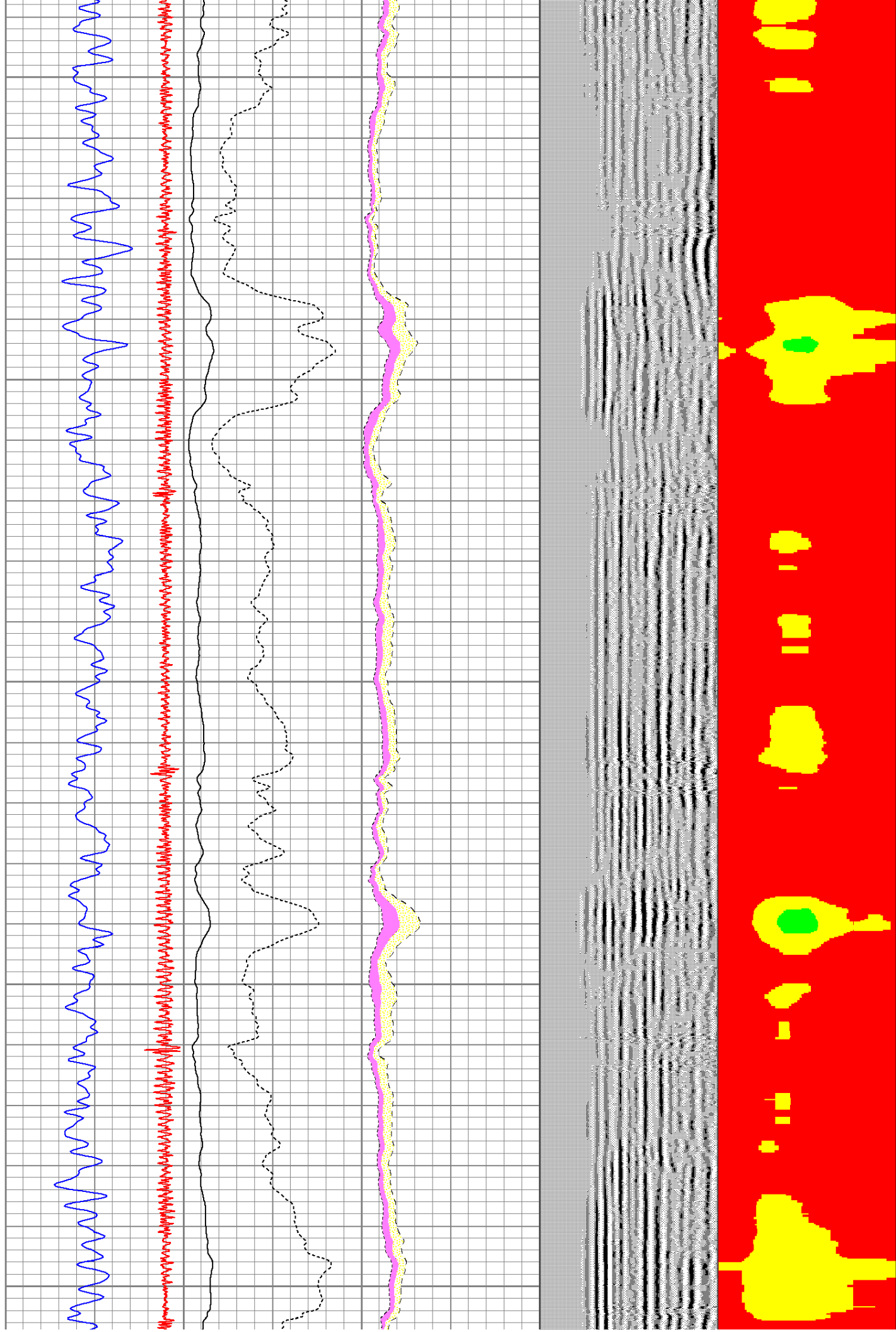
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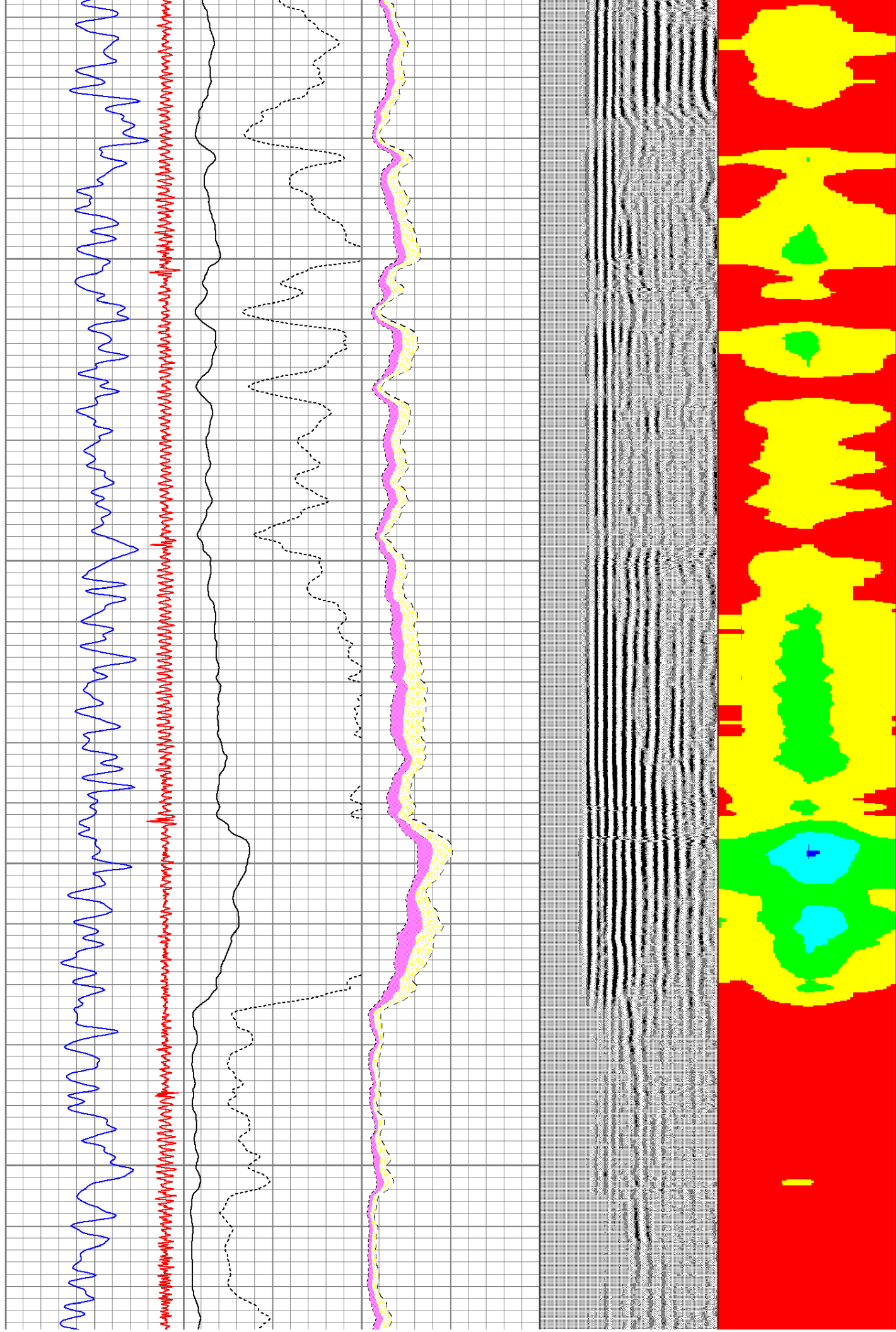
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5200



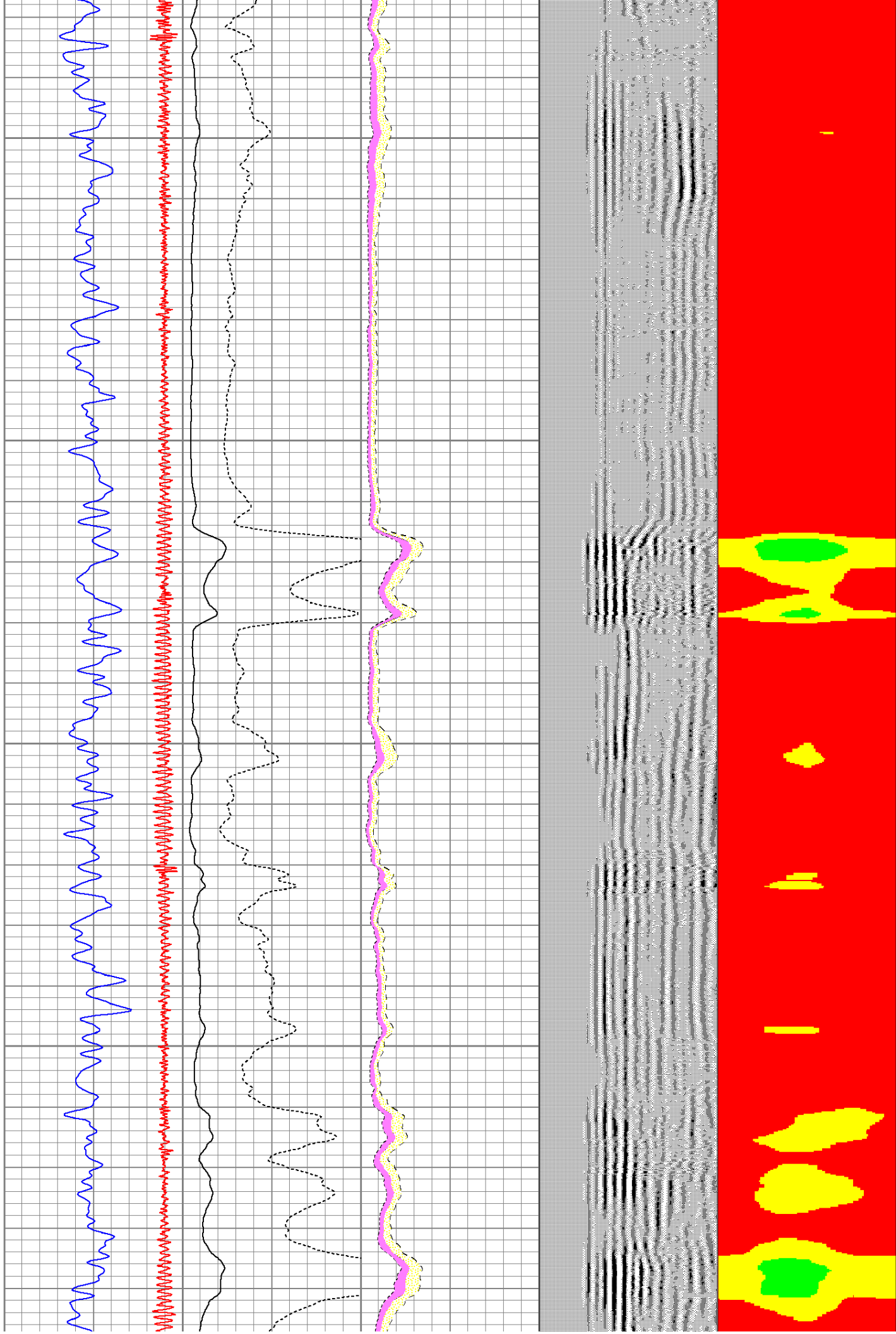
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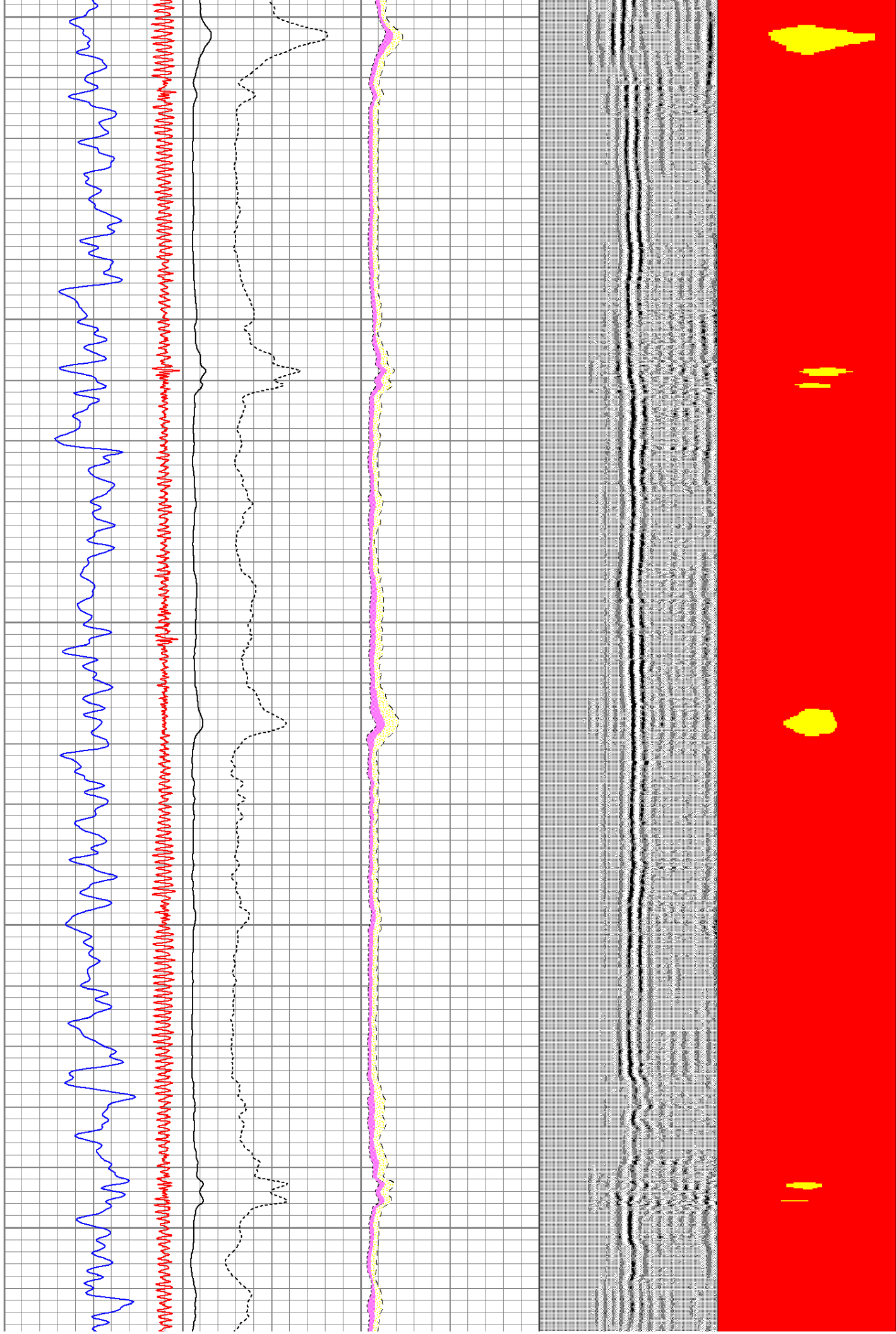
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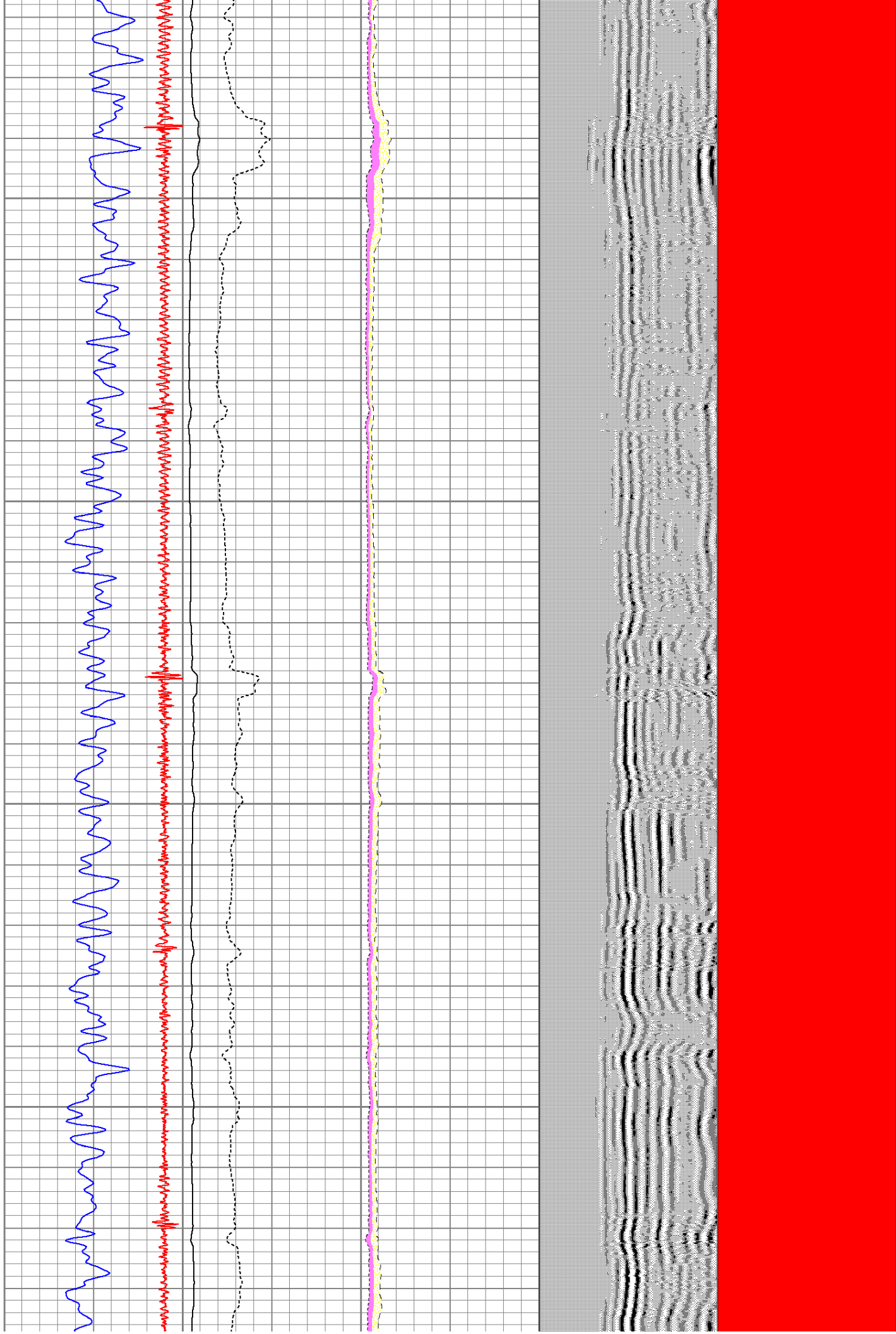
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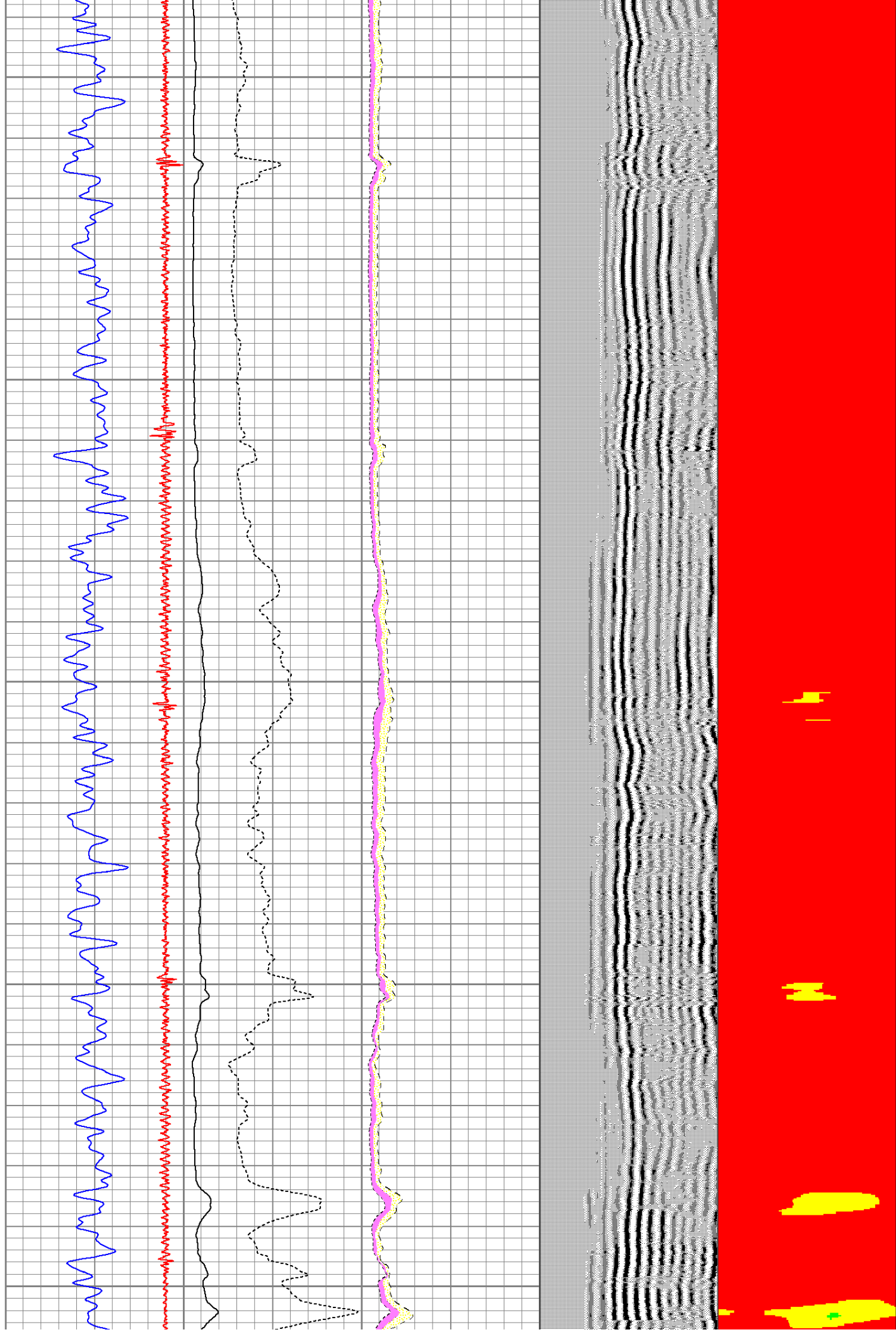
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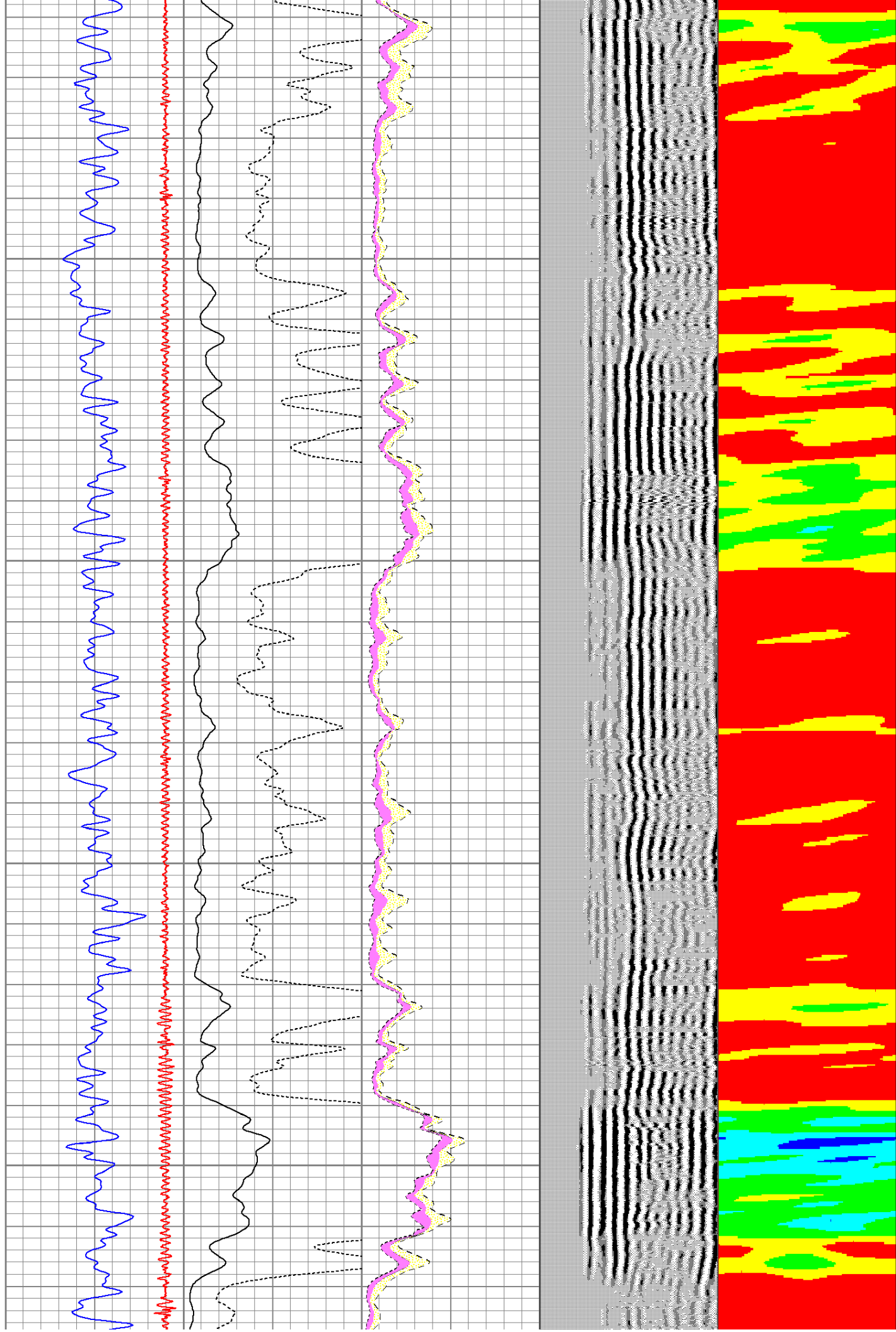
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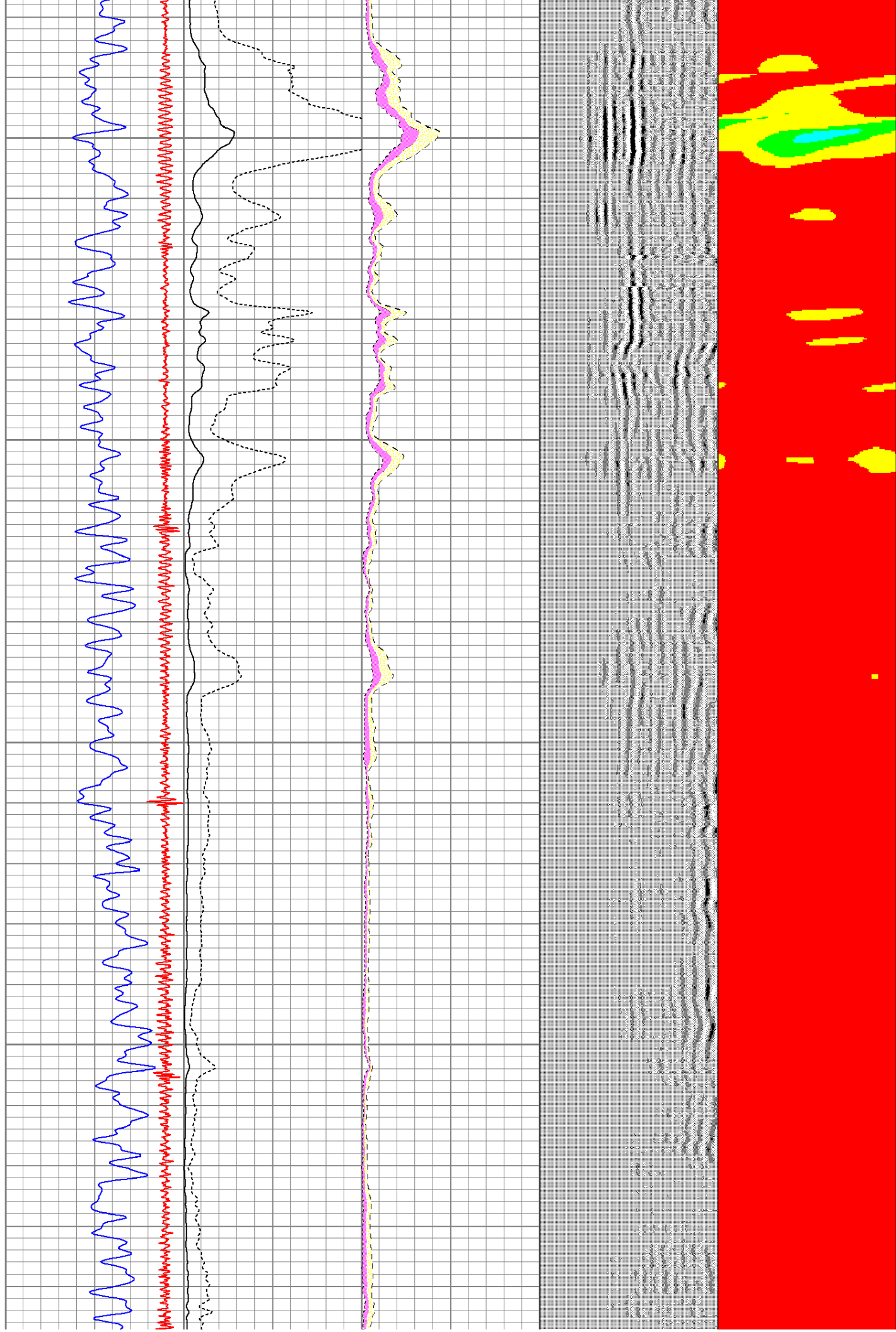
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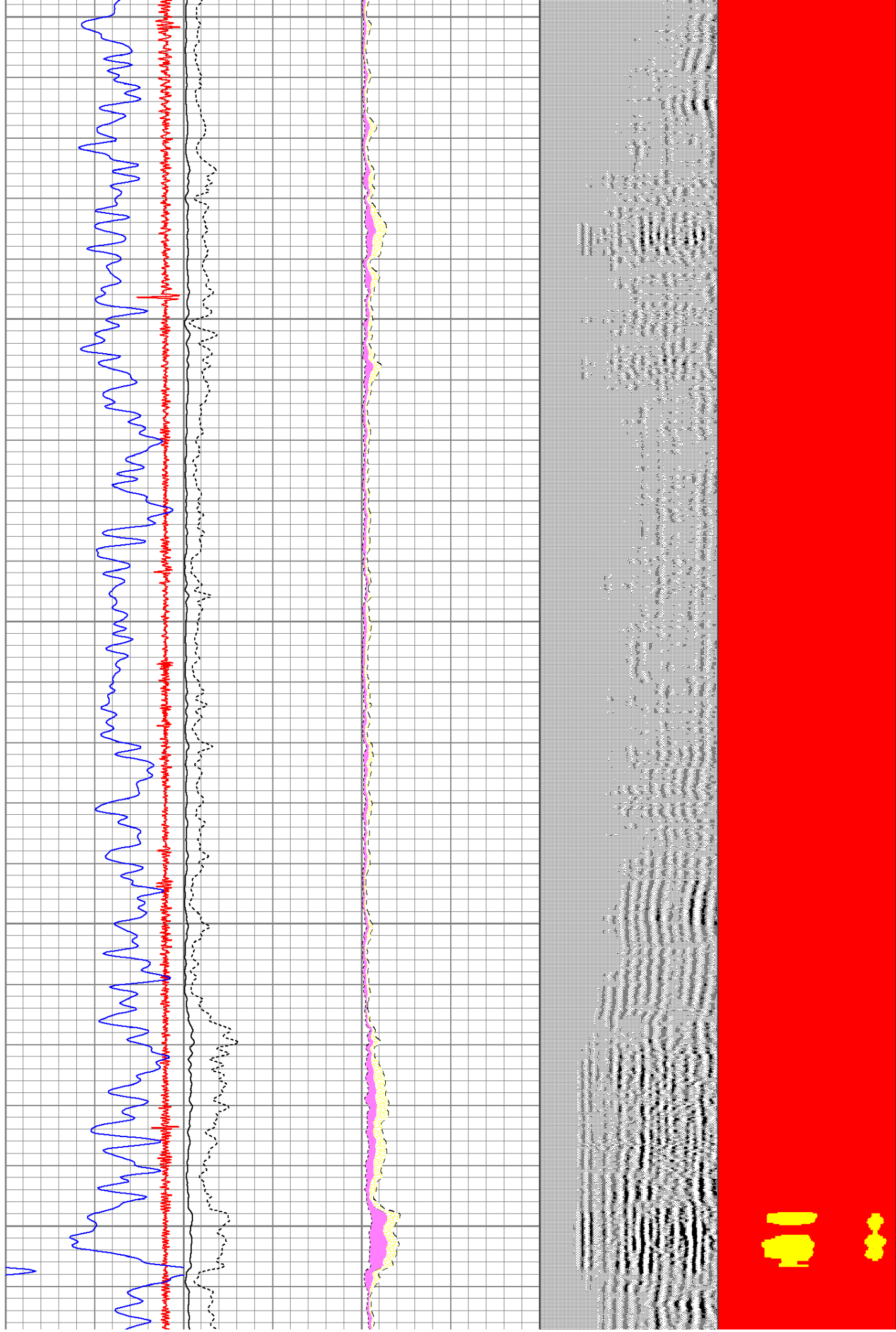
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6800

6900

7000



7100

