



GAMMA RAY CCL CEMENT BOND VDL SECTOR MAP

Pioneer Energy Services

Company ENCANA OIL AND GAS U.S.A. INC
Well MATHEWS 4D-14H
Field WATTENBERG
County WELD
State COLORADO

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Location: 756 FSL & 1311 FEL SESE
API #: 05 123 36839 00
Permanent Datum GROUND LEVEL Elevation 5104'
Log Measured From KELLY BUSHING = 13'
Drilling Measured From KELLY BUSHING
Other Services NONE
Elevation K.B. 5117'
D.F. 5118'
G.L. 5104'

Date	28 JULY 2013
Run Number	ONE
Depth Driller	12177'
Depth Logger	7672'
Bottom Logged Interval	7670'
Top Log Interval	SURFACE
Open Hole Size	6-1/8"
Type Fluid	DRILLING MUD
Density / Viscosity	10.4#
Max. Recorded Temp.	NOT RECORDED
Estimated Cement Top	
Time Well Ready	1200
Time Logger on Bottom	1315
Equipment Number	24
Location	FT MORGAN
Recorded By	M. MAYROS
Witnessed By	DENNIS ELROD

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
Casing Record		Size		Wgt/Ft		Top	Bottom
Surface String		9-5/8"		40#		SURFACE	1292'
Prot. String		7"		26#		SURFACE	8102'
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

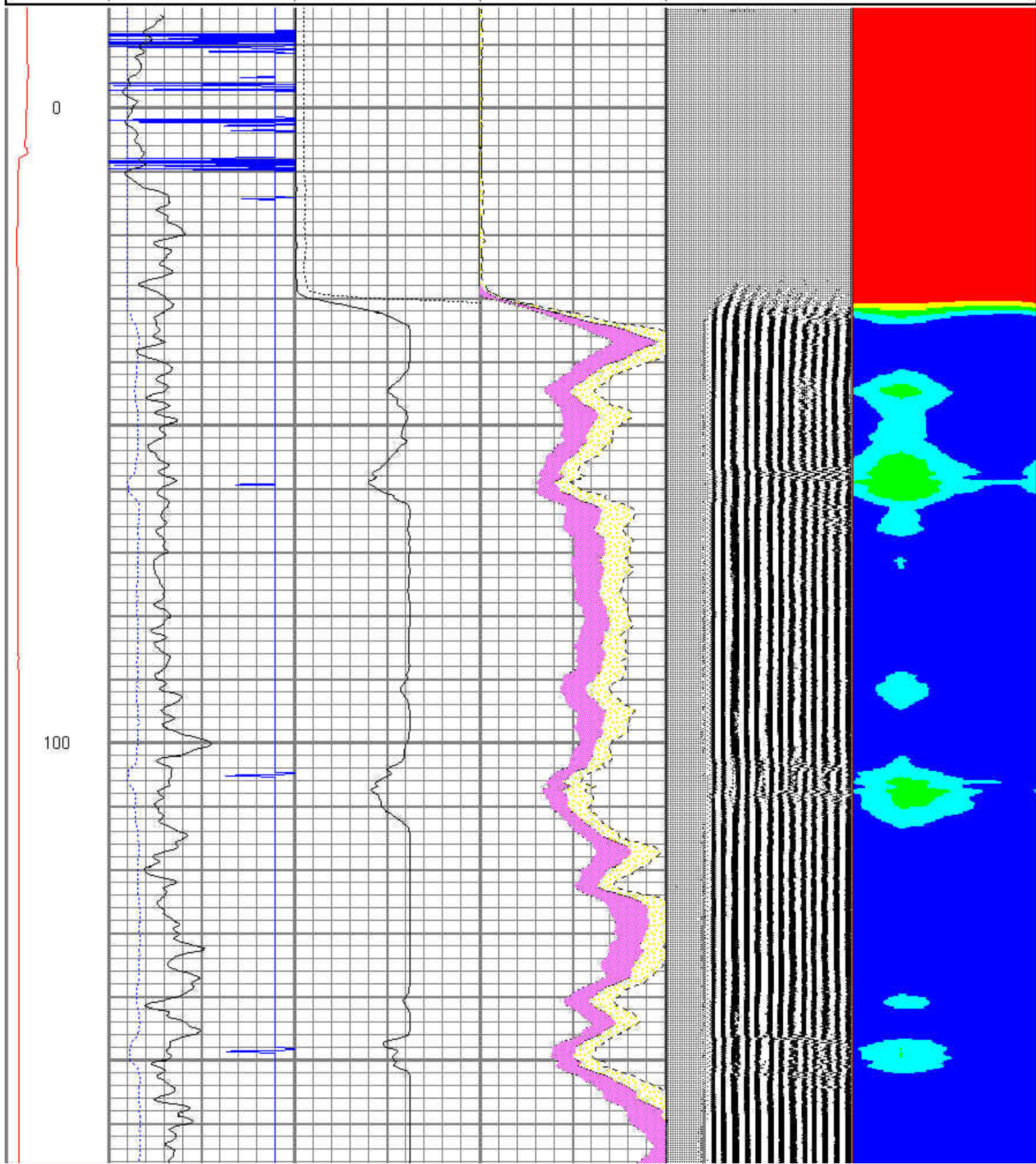
SO # 2-204416



Pioneer Energy Services

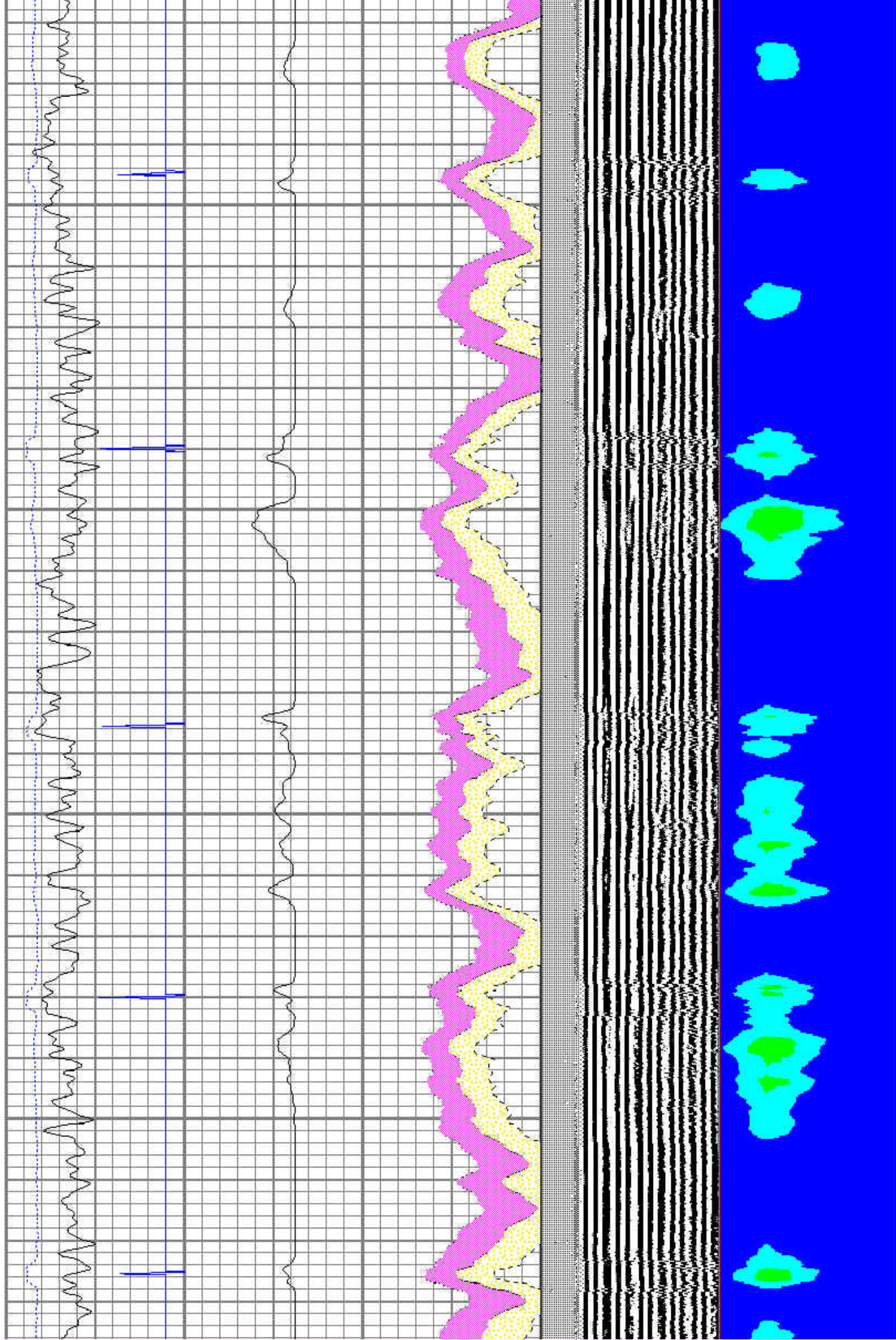
Database File: matthews4d14h.db
 Dataset Pathname: pass3
 Presentation Format: scbl02
 Dataset Creation: Sun Jul 28 13:10:38 2013 by Log SCH 120430
 Charted by: Depth in Feet scaled 1:240

LTEN	322	TT (usec)	222	0	AMP (mV)	100	0	AMPAVG	150	200	VDL	1200	1	SECTOR MAP	8
0	(lb)1000	-9	CCL	1	0	AMPx5 (mV)	20	0	AMPMAX	150			25		75
		0	GR (GAPI)	150				0	AMPMIN	150					



200

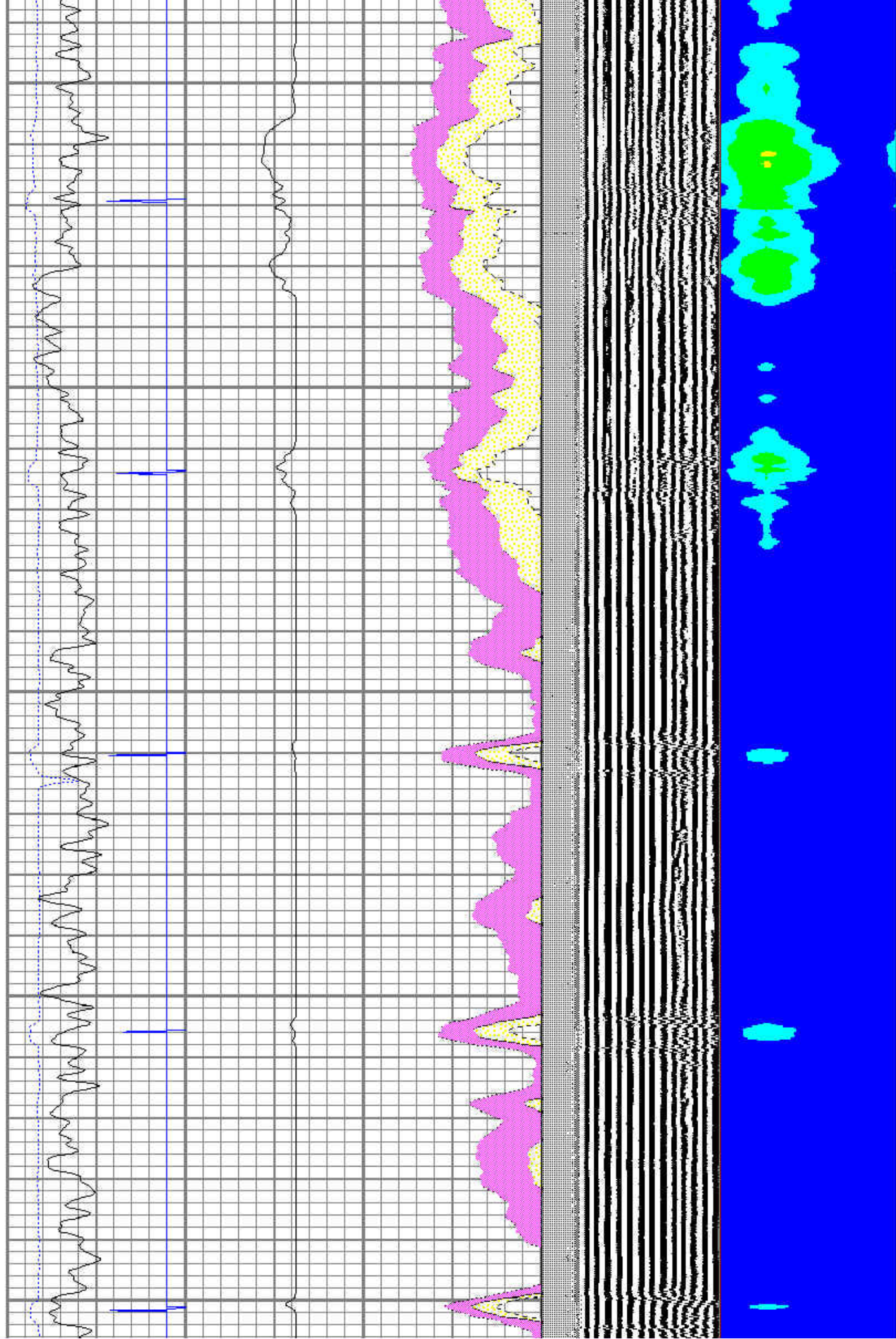
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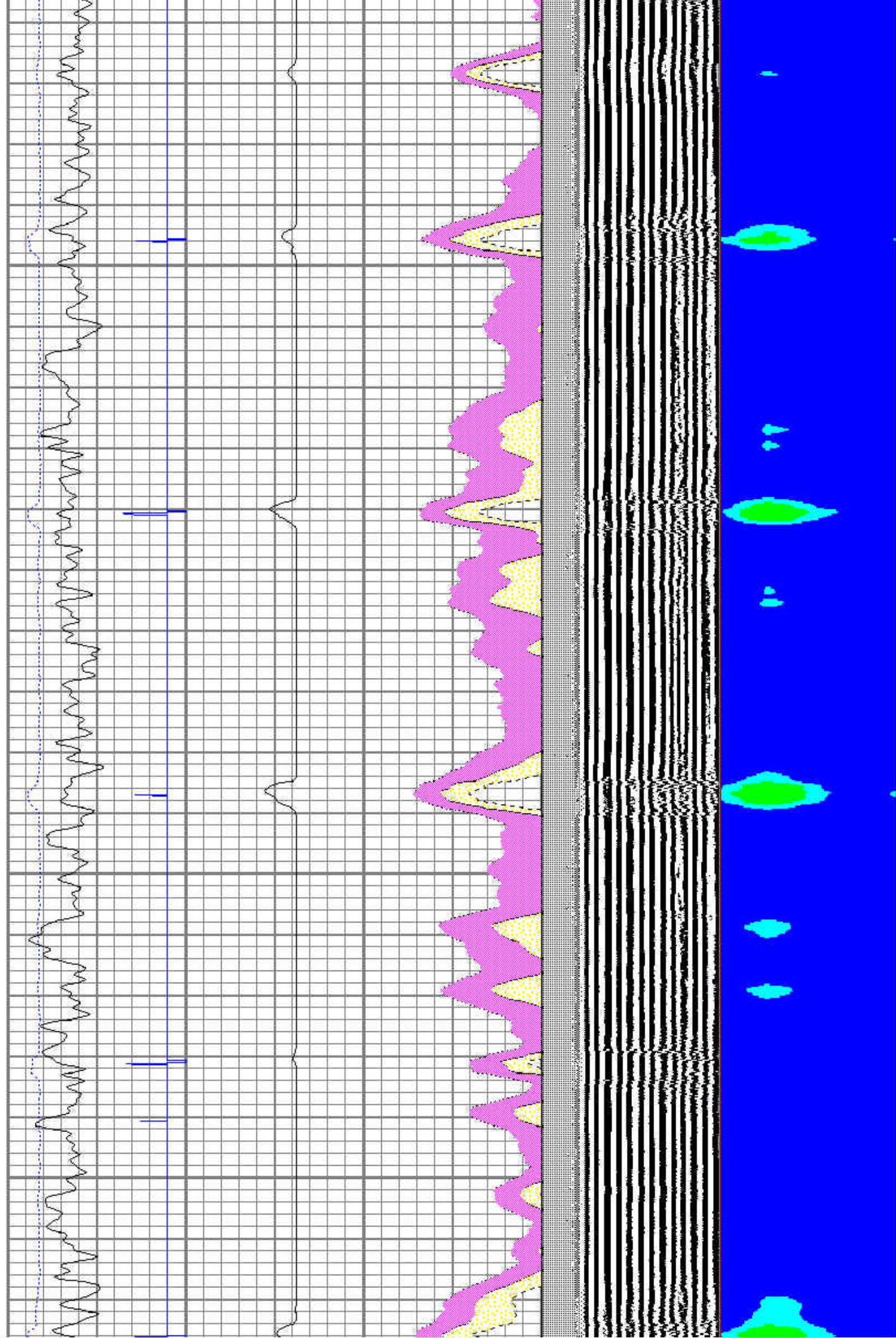


400

500

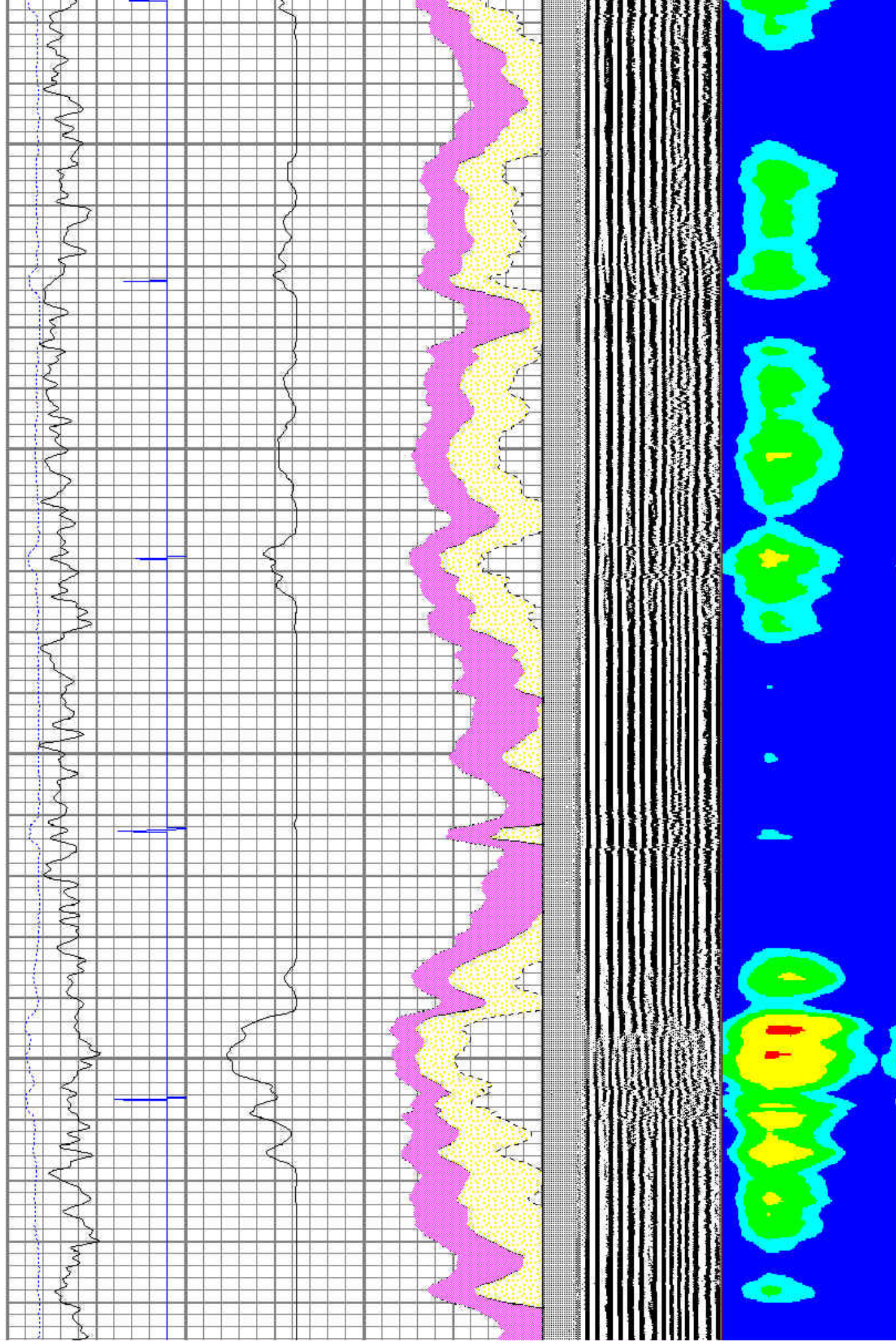
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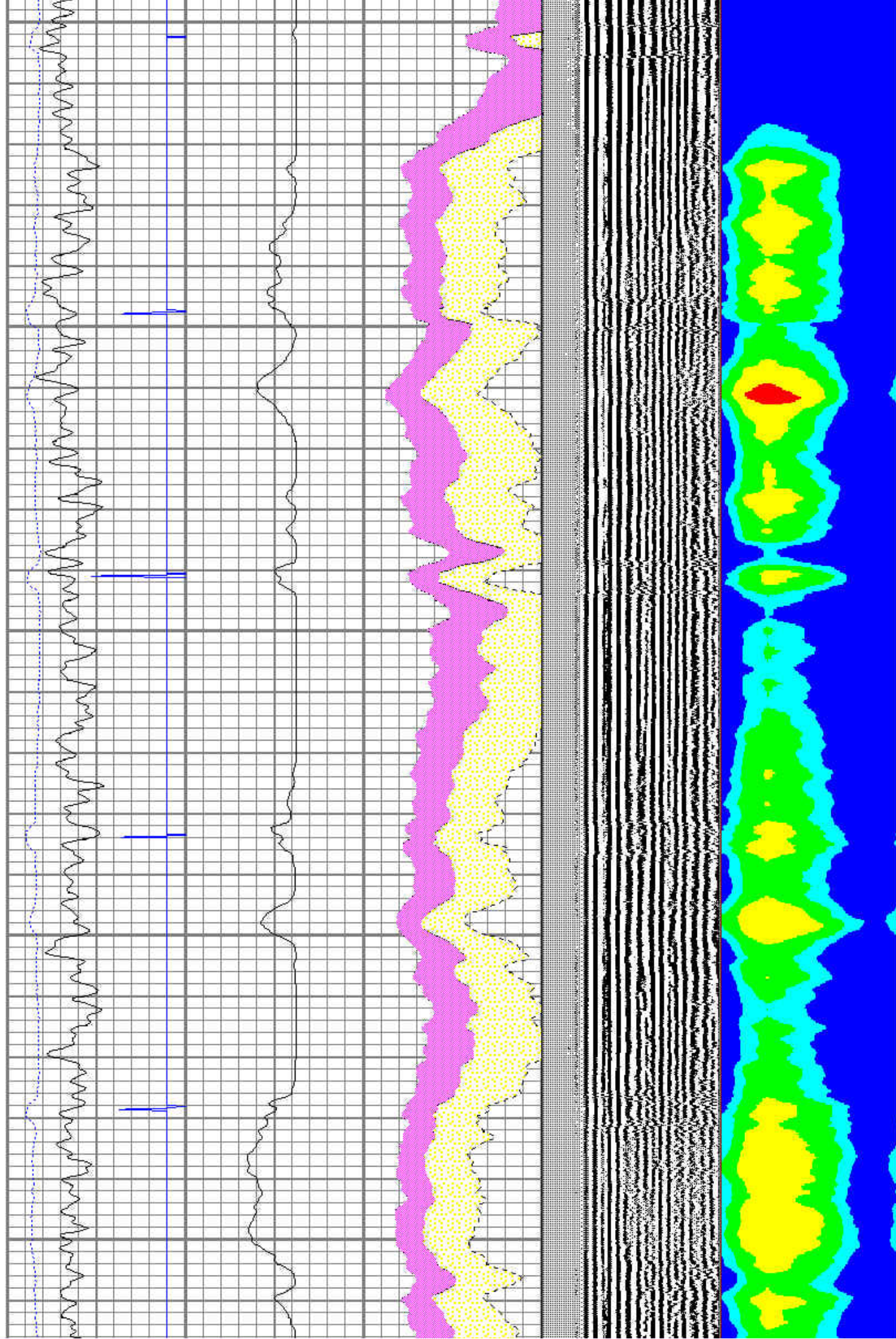




900

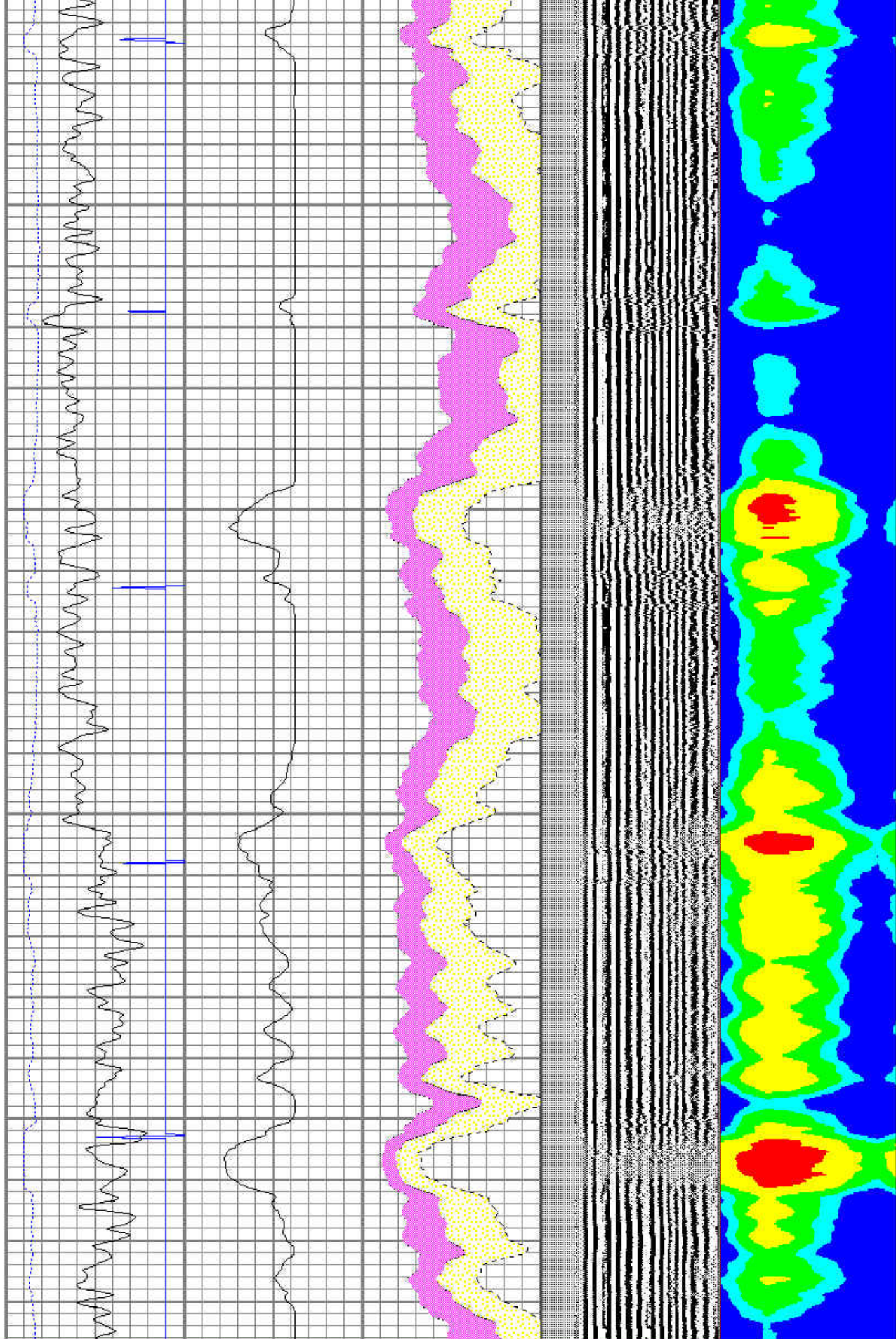
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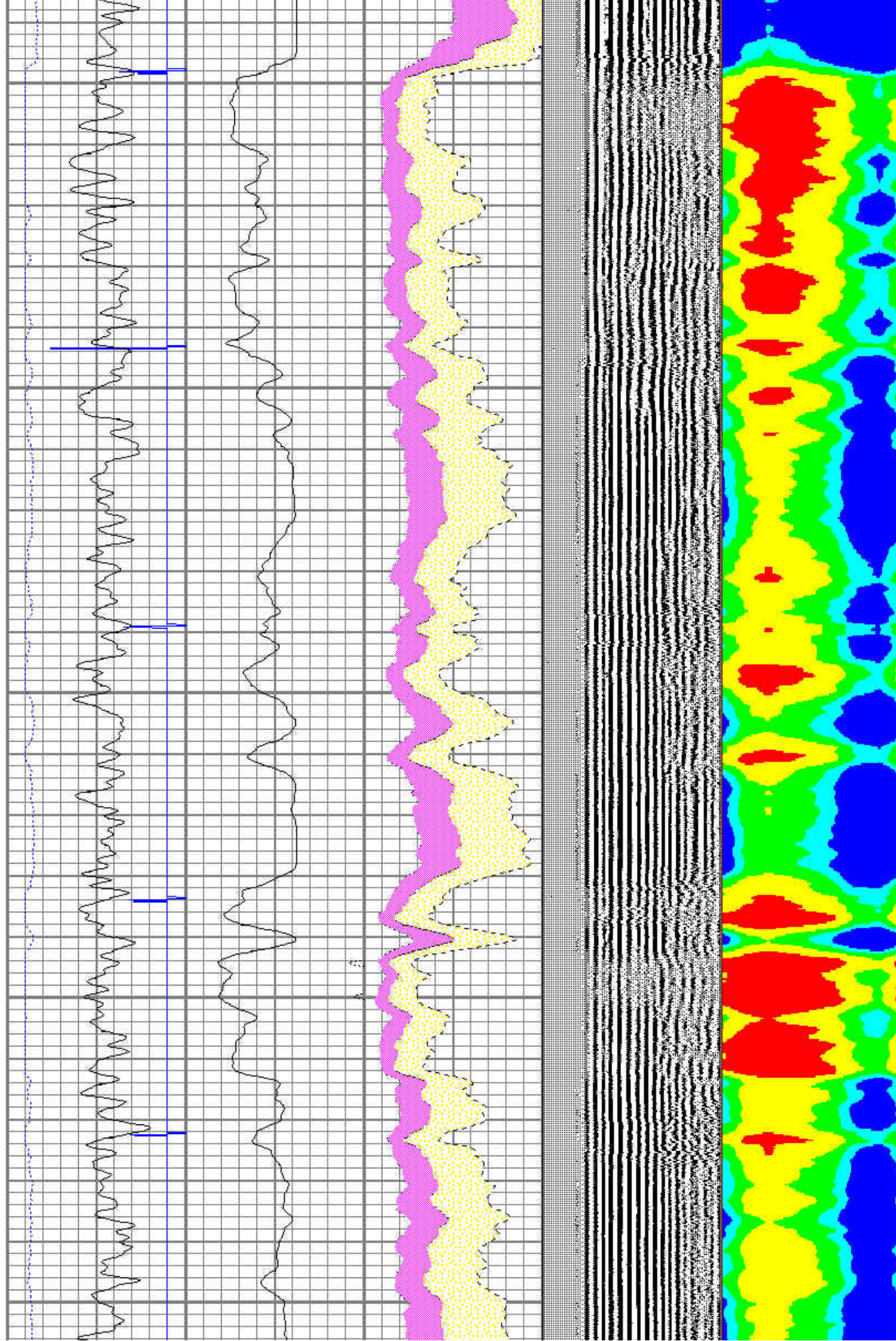


[illegible]

1300

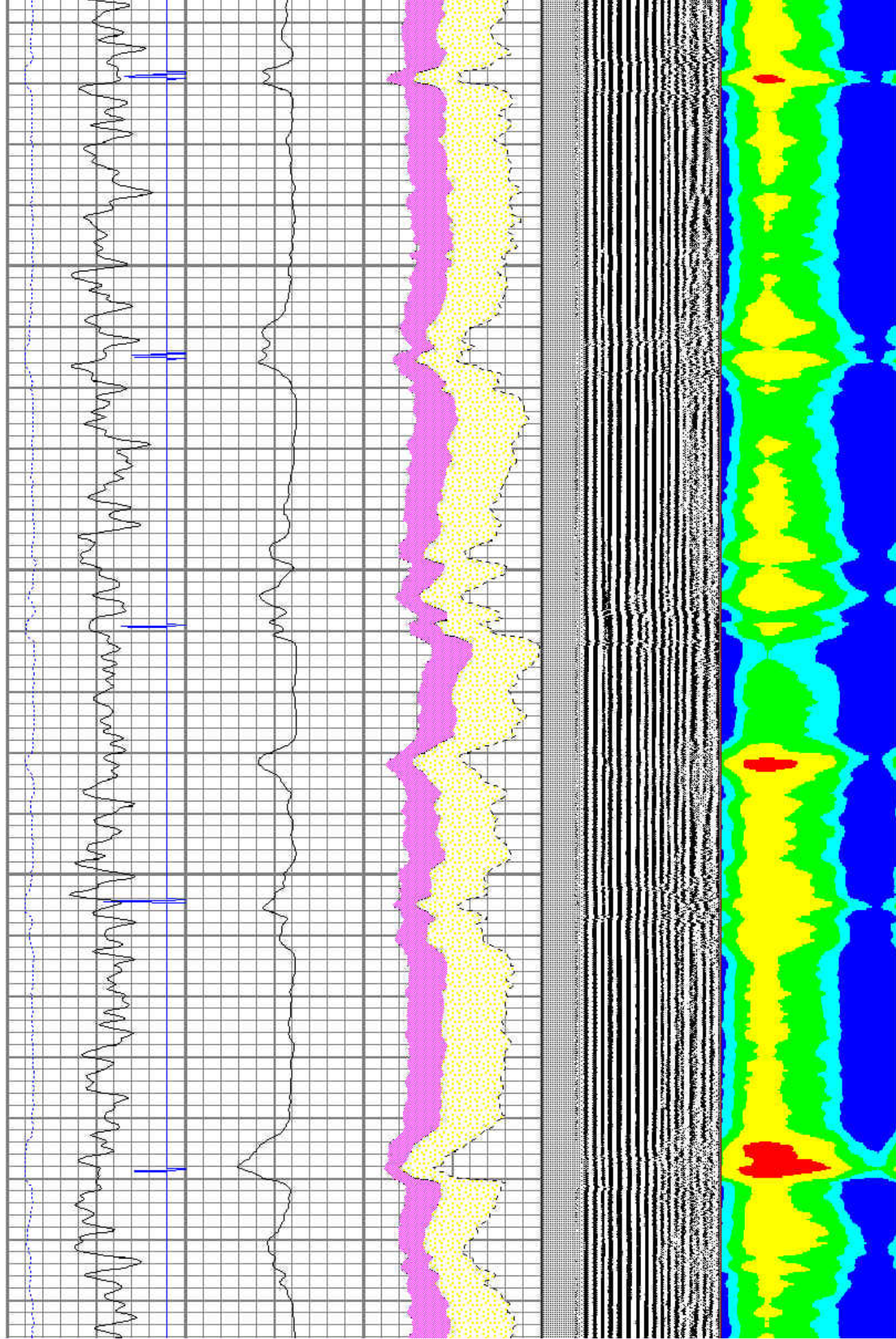
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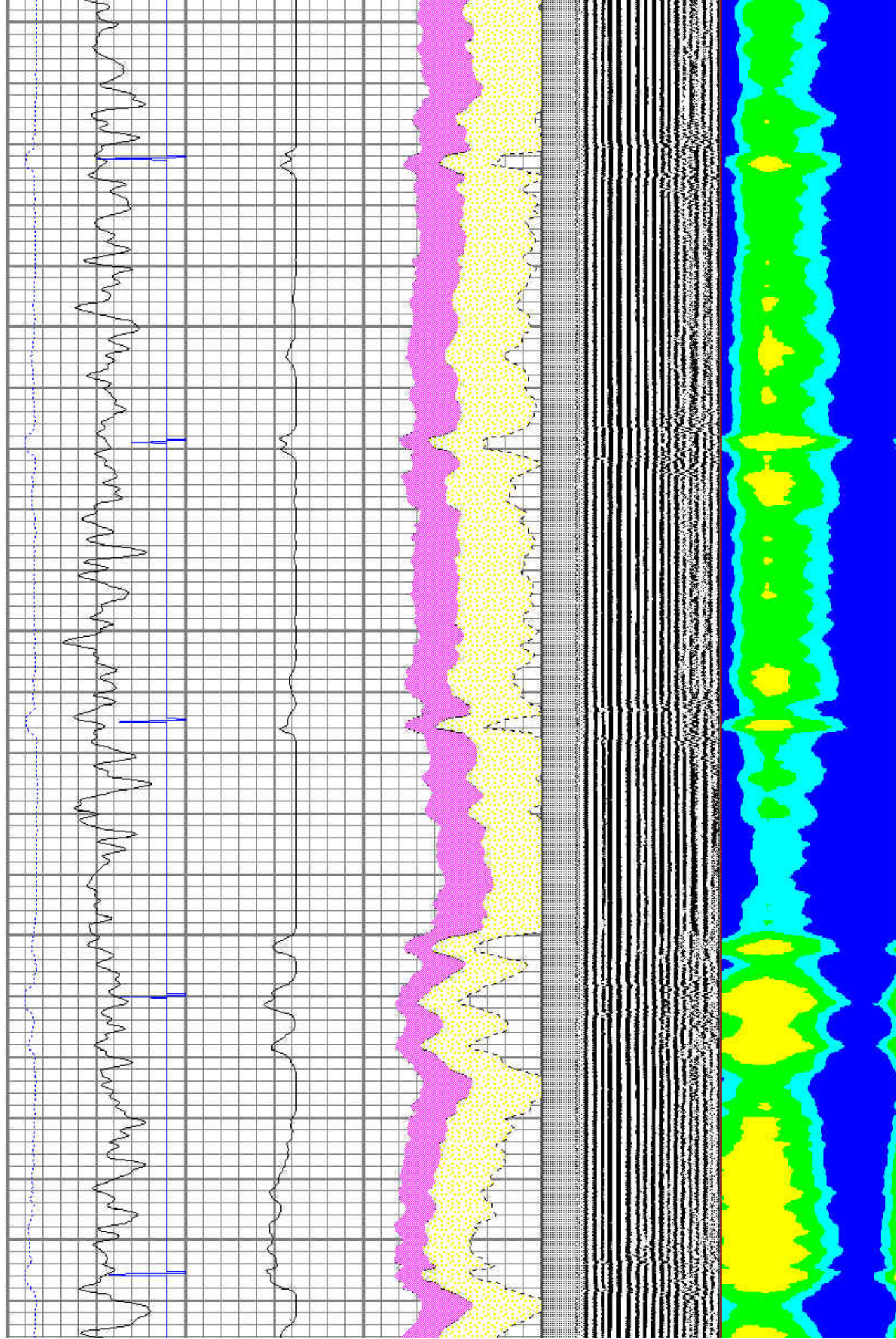
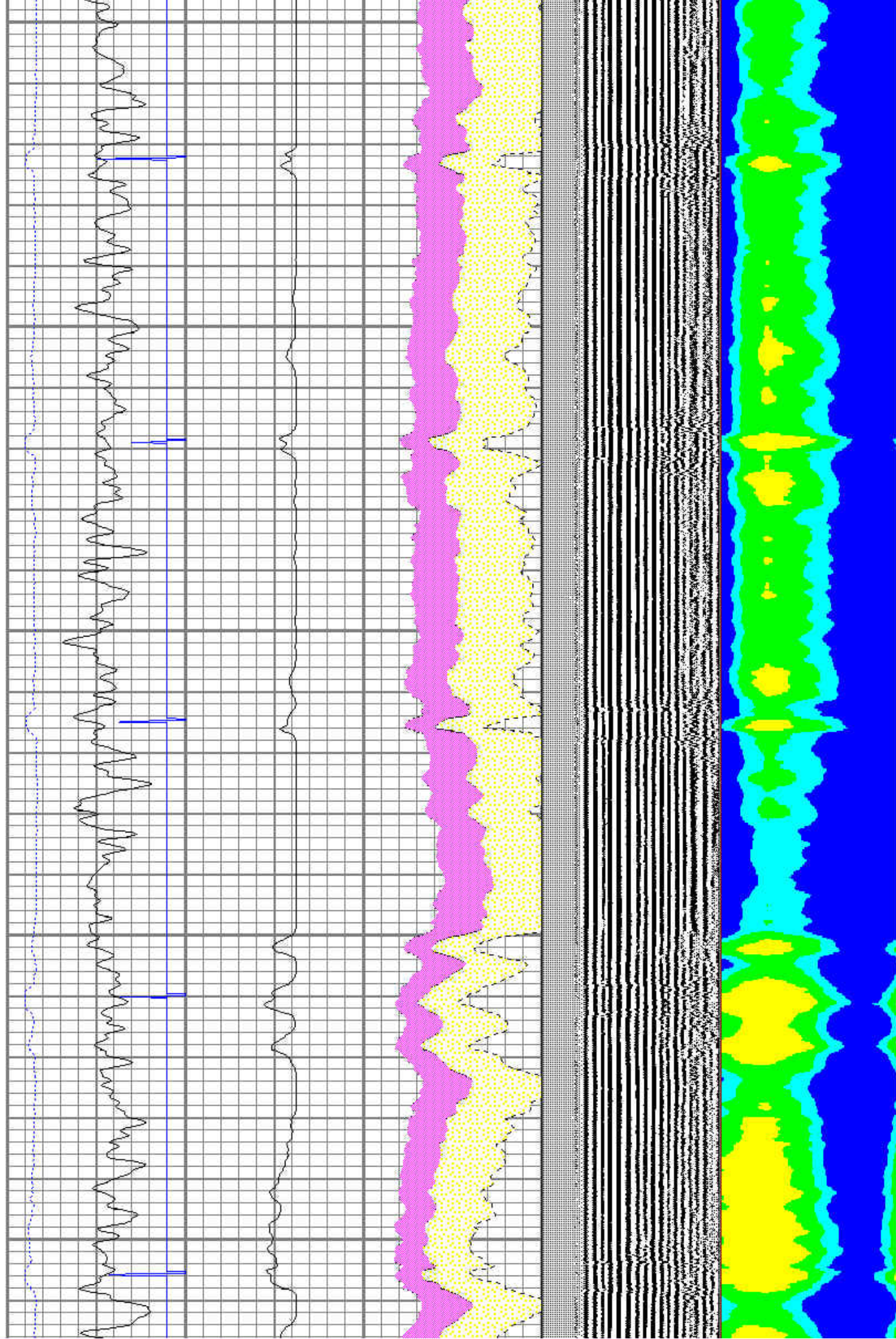


1800

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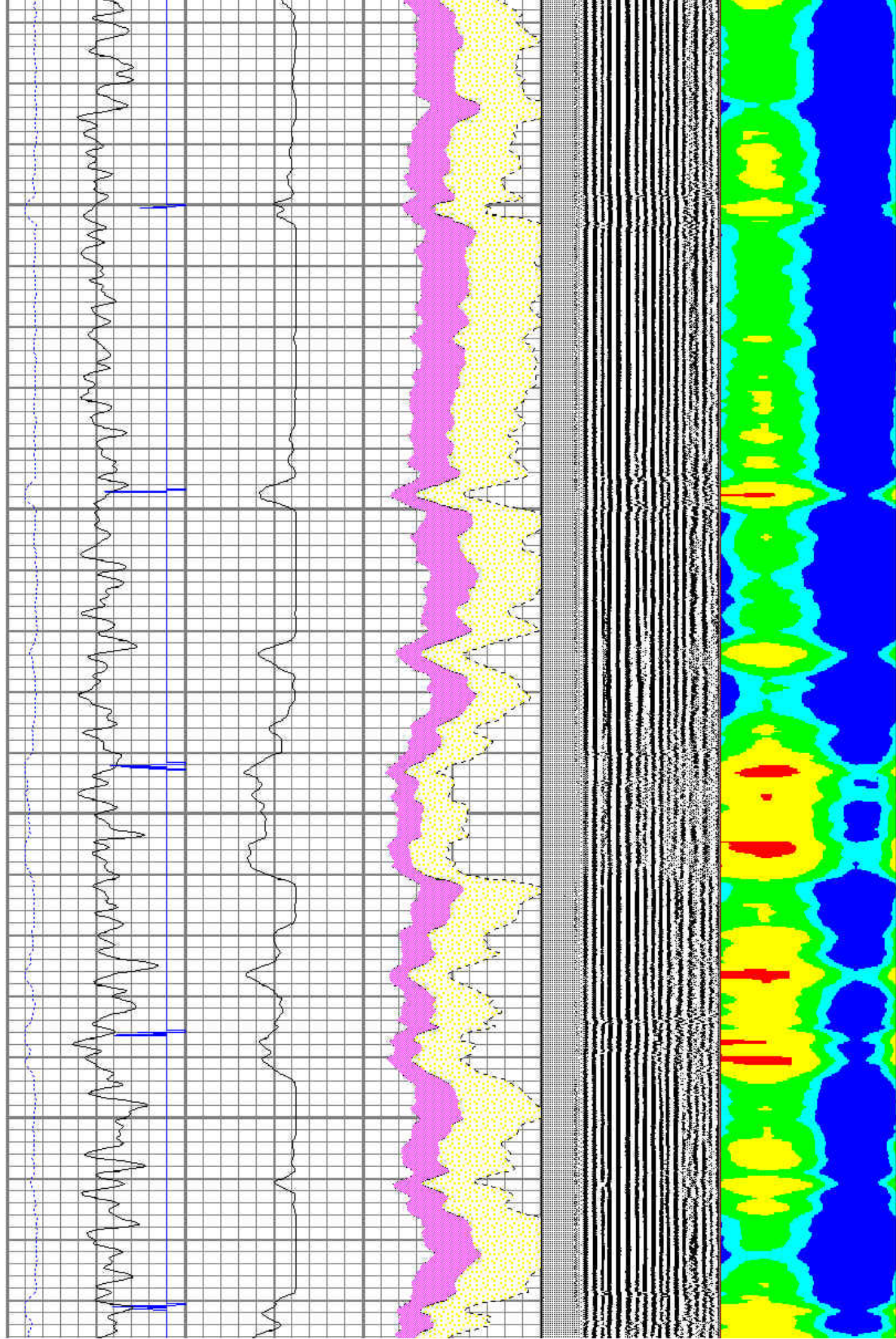






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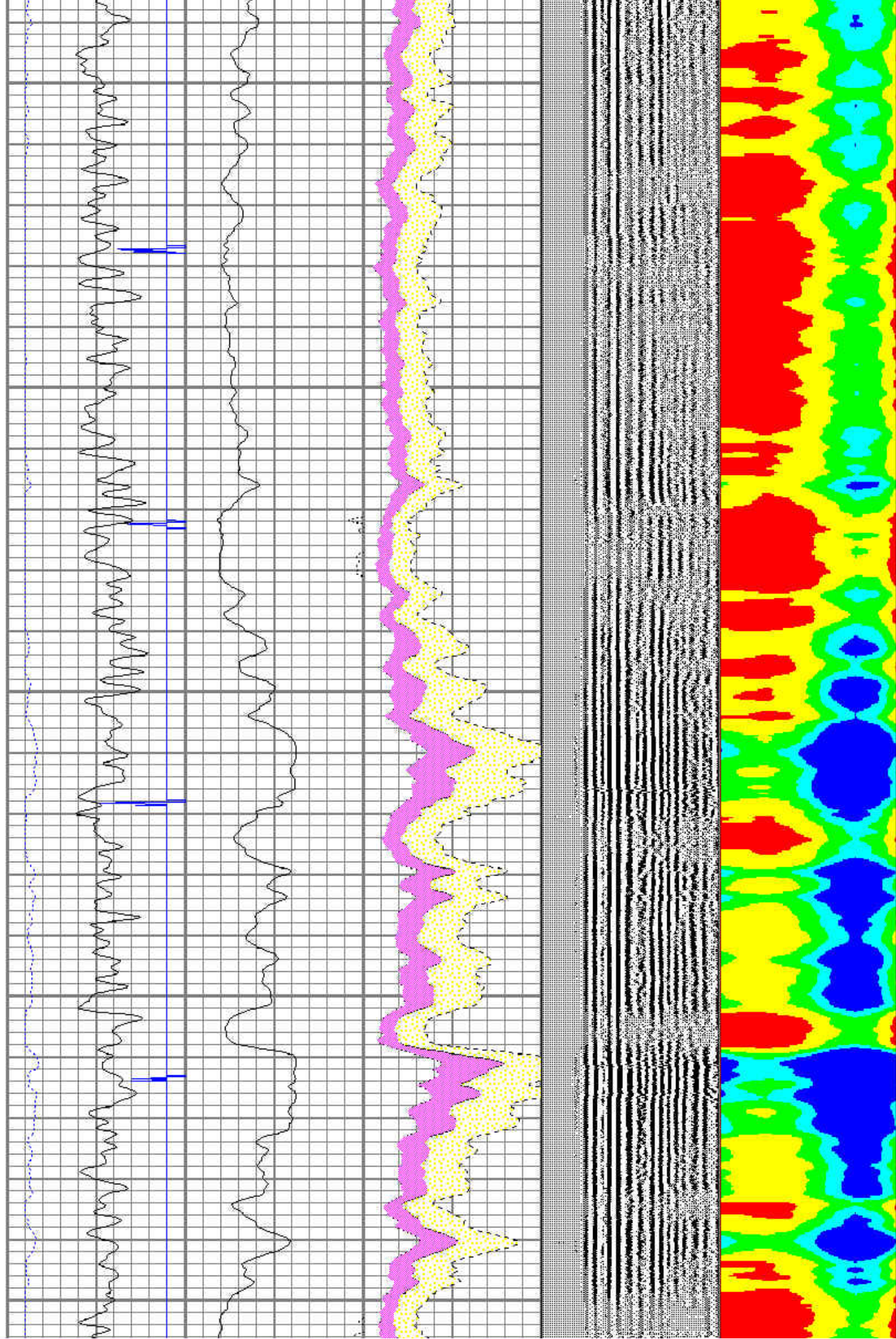
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2600

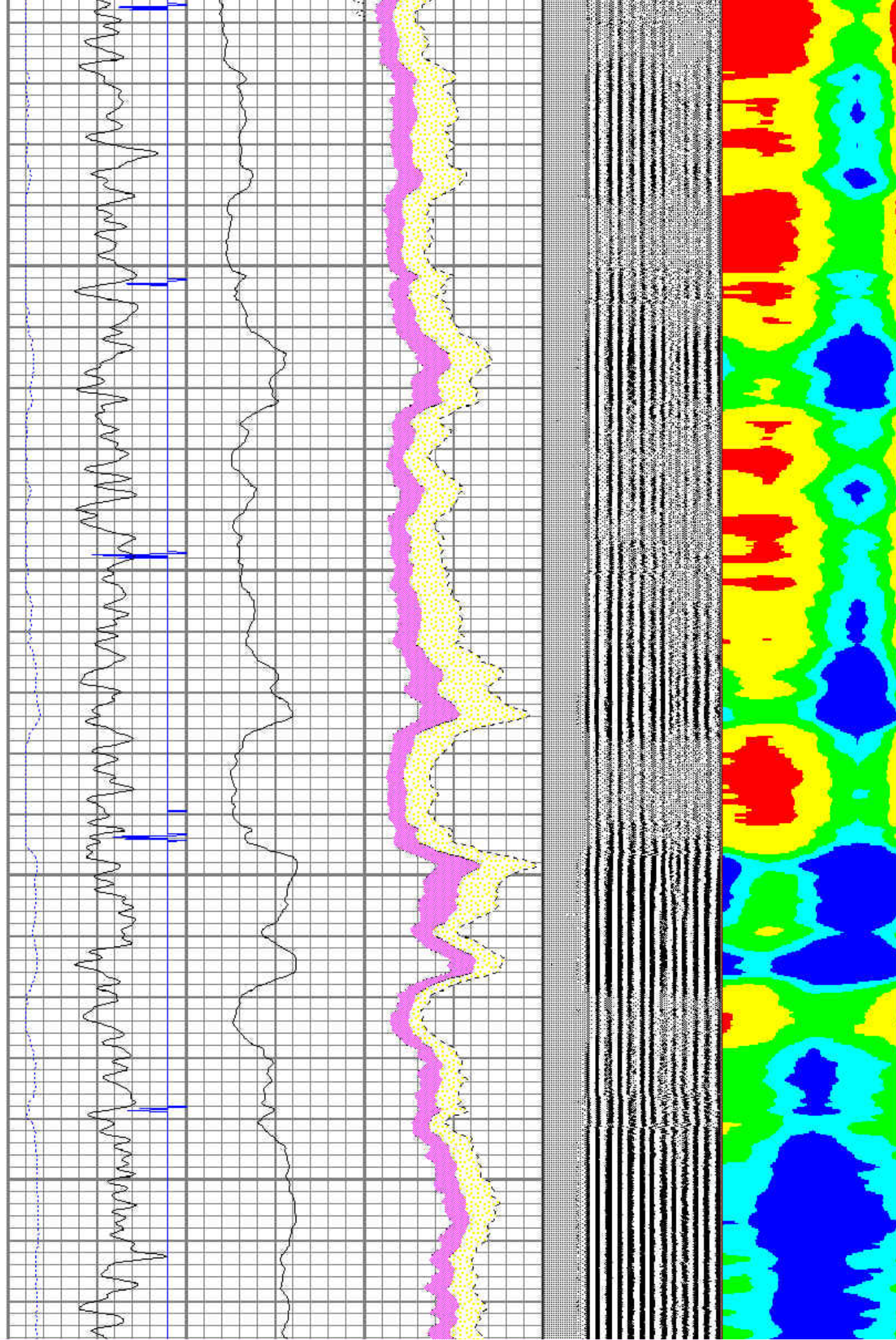
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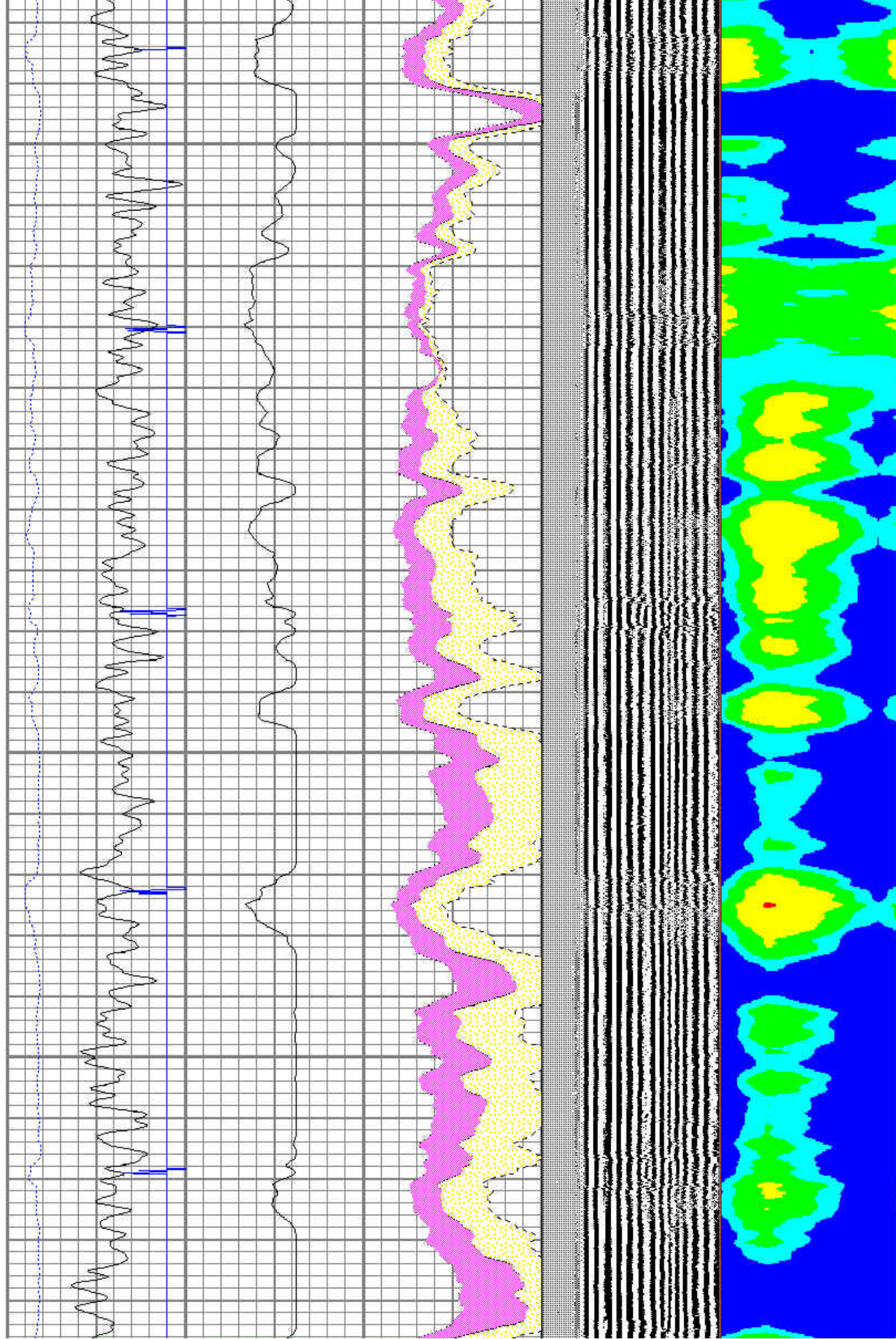
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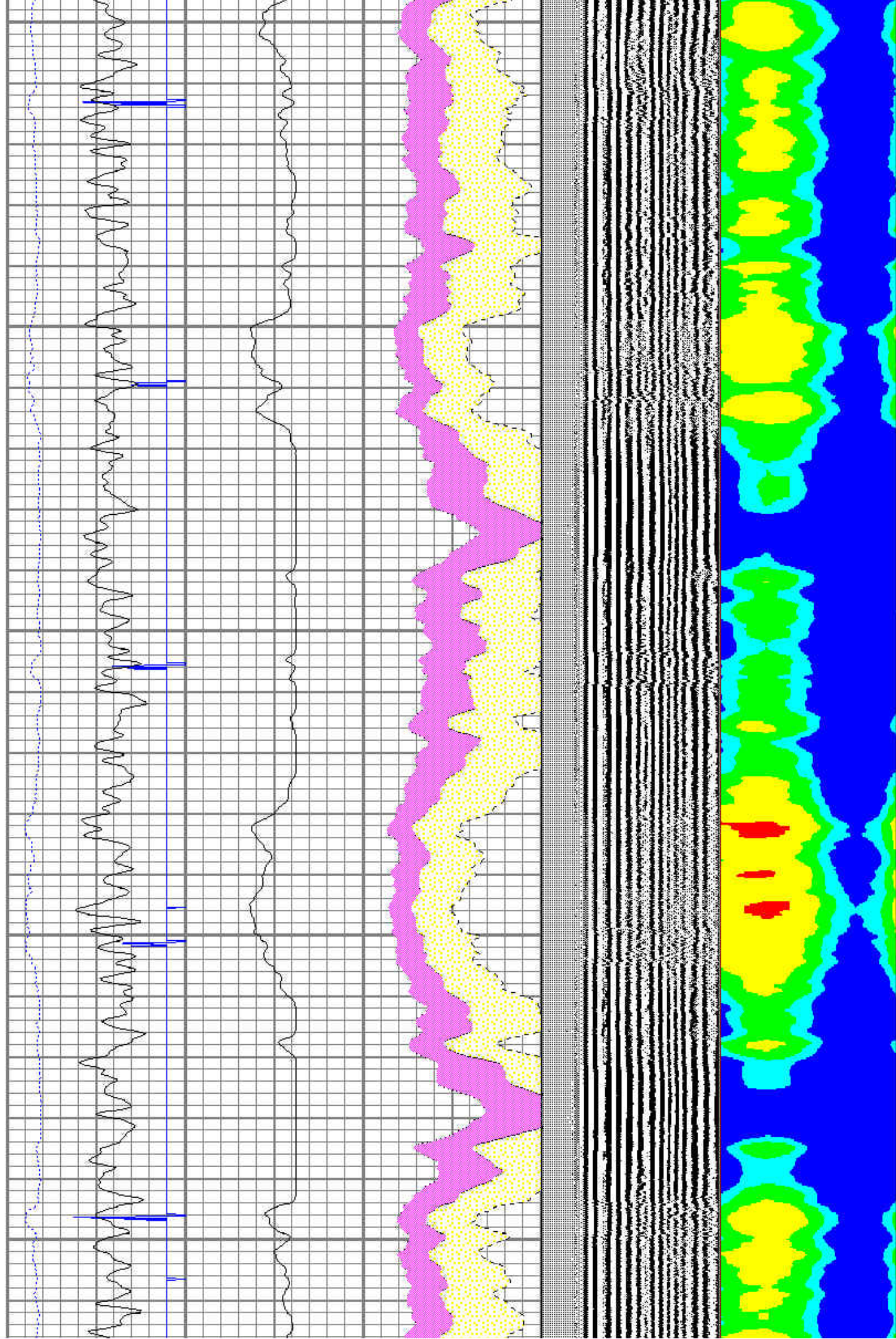
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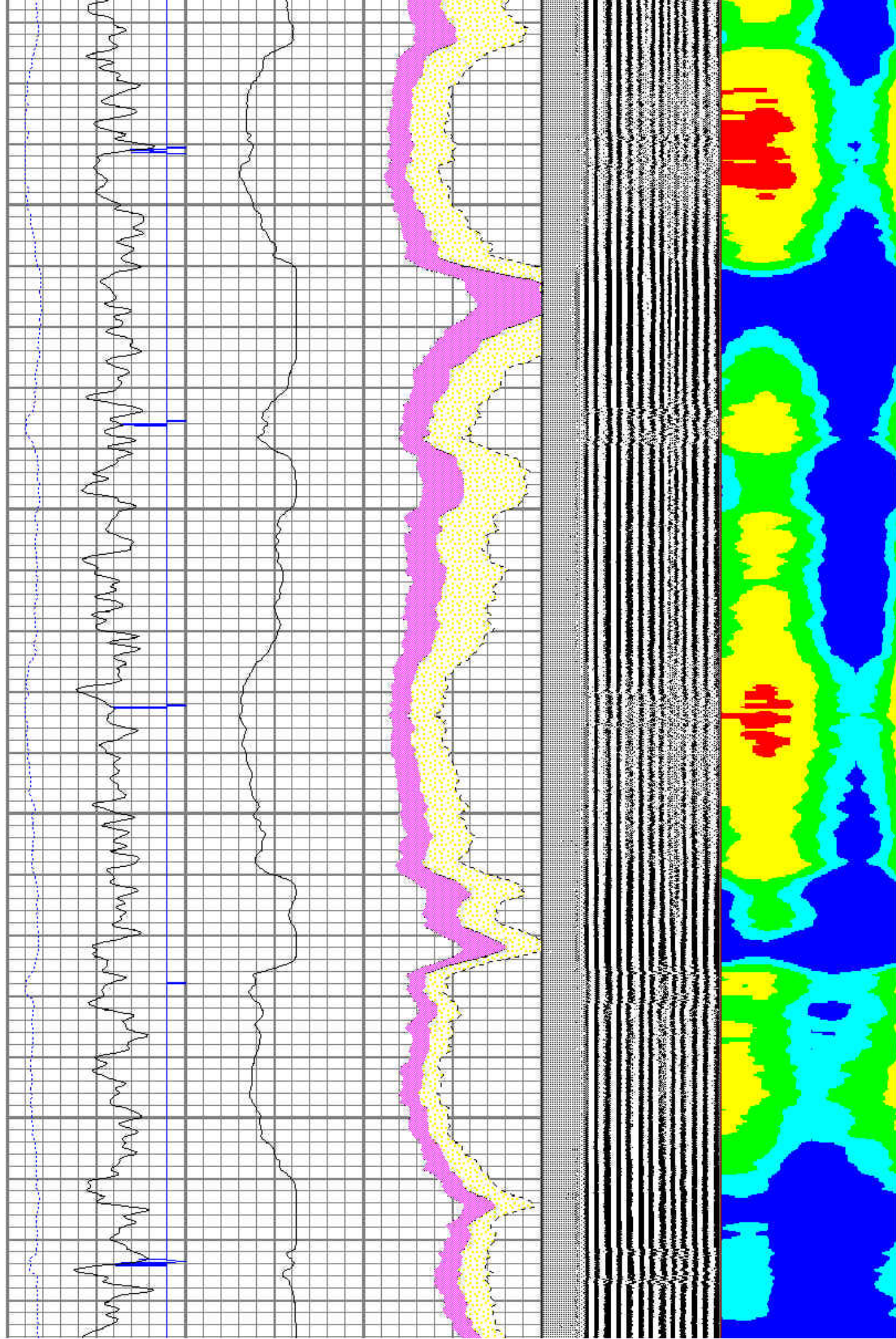
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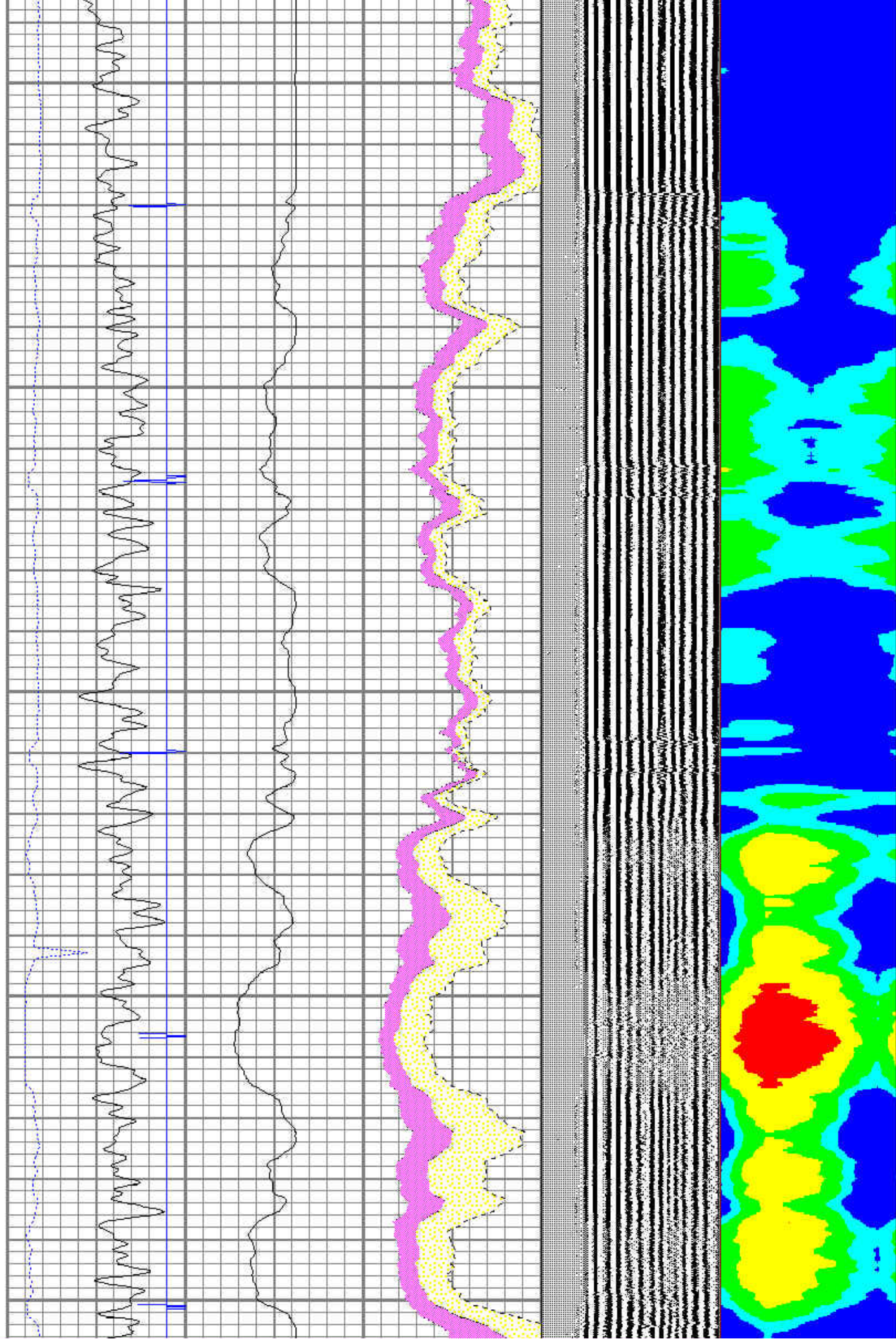
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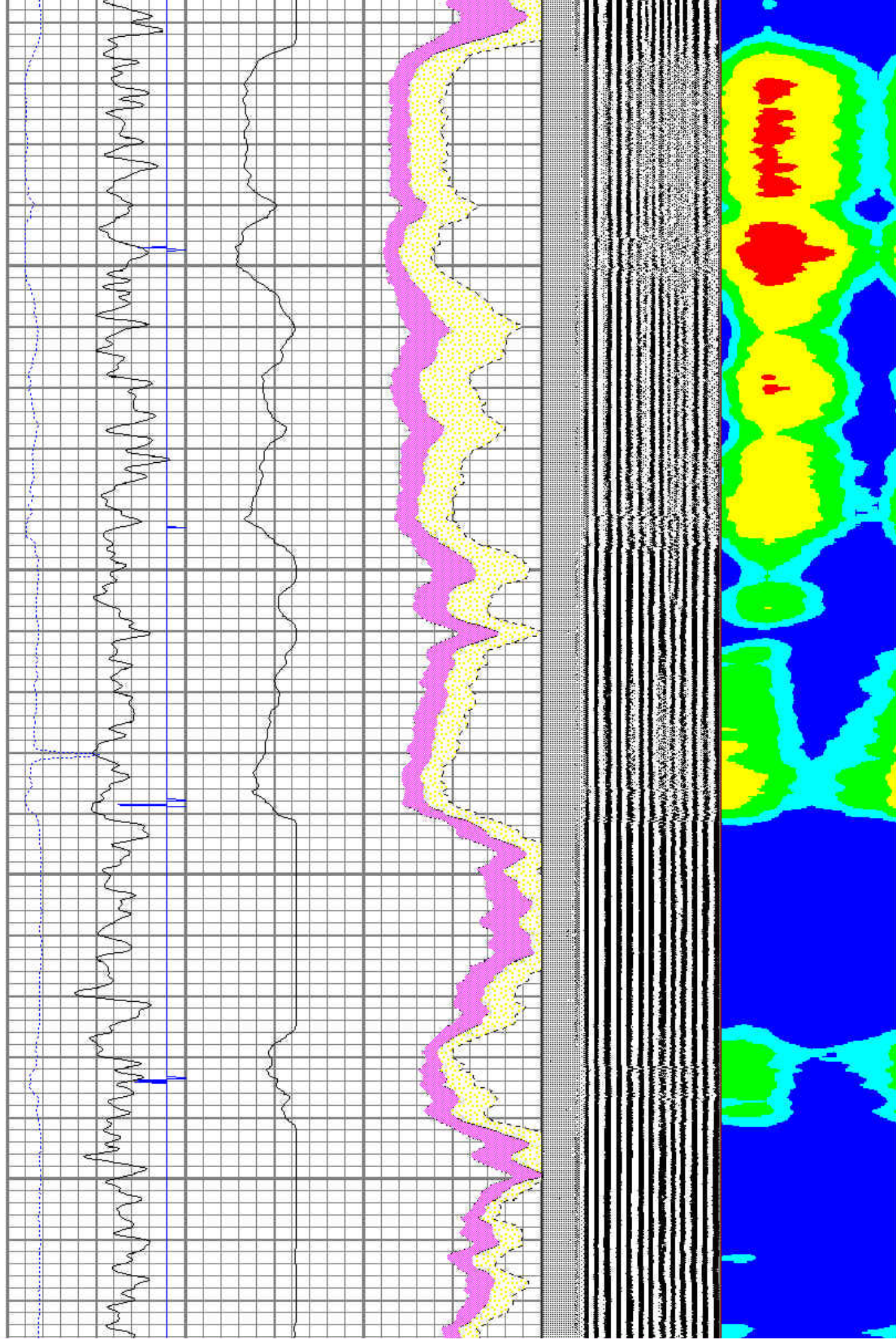


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3800

3900

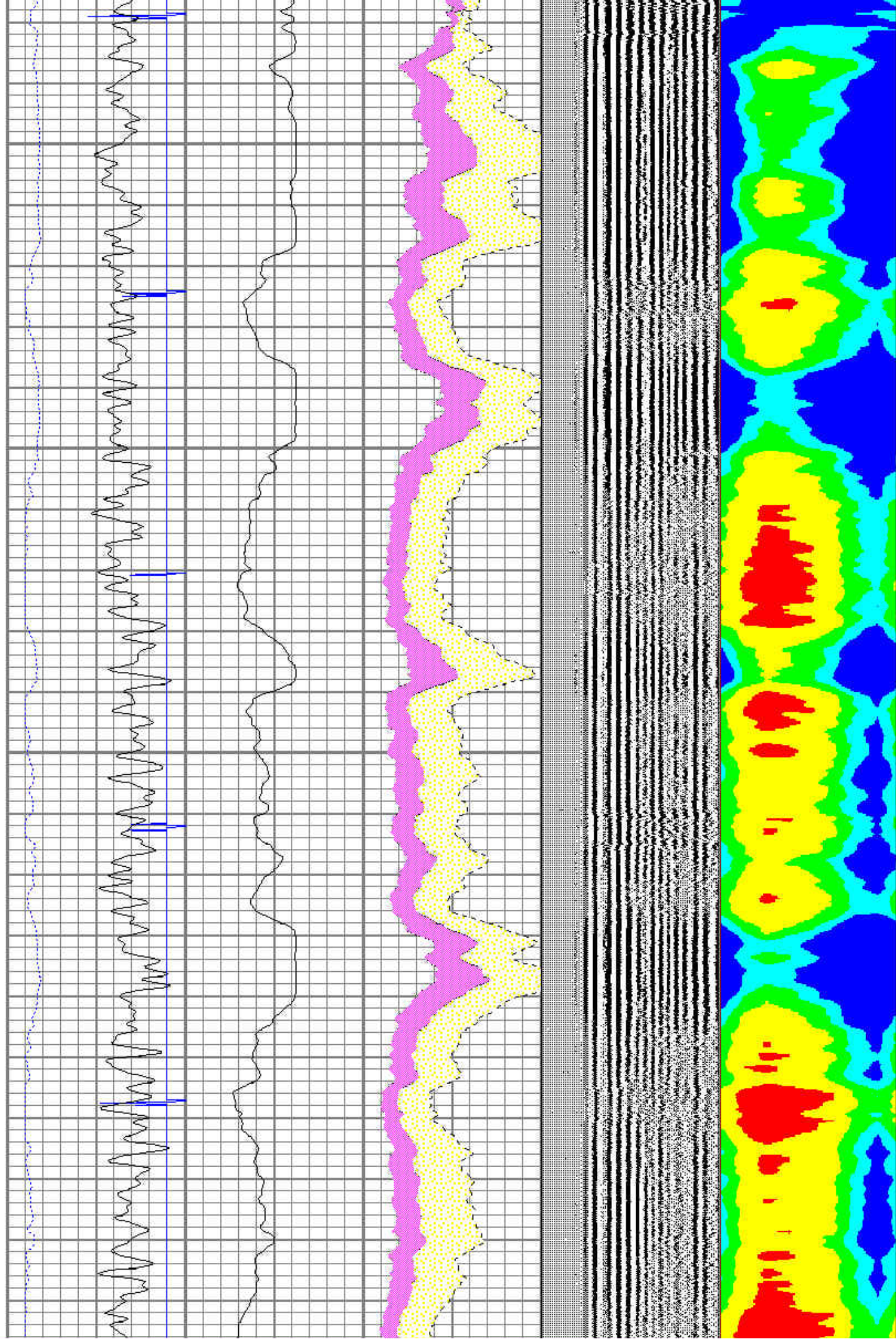


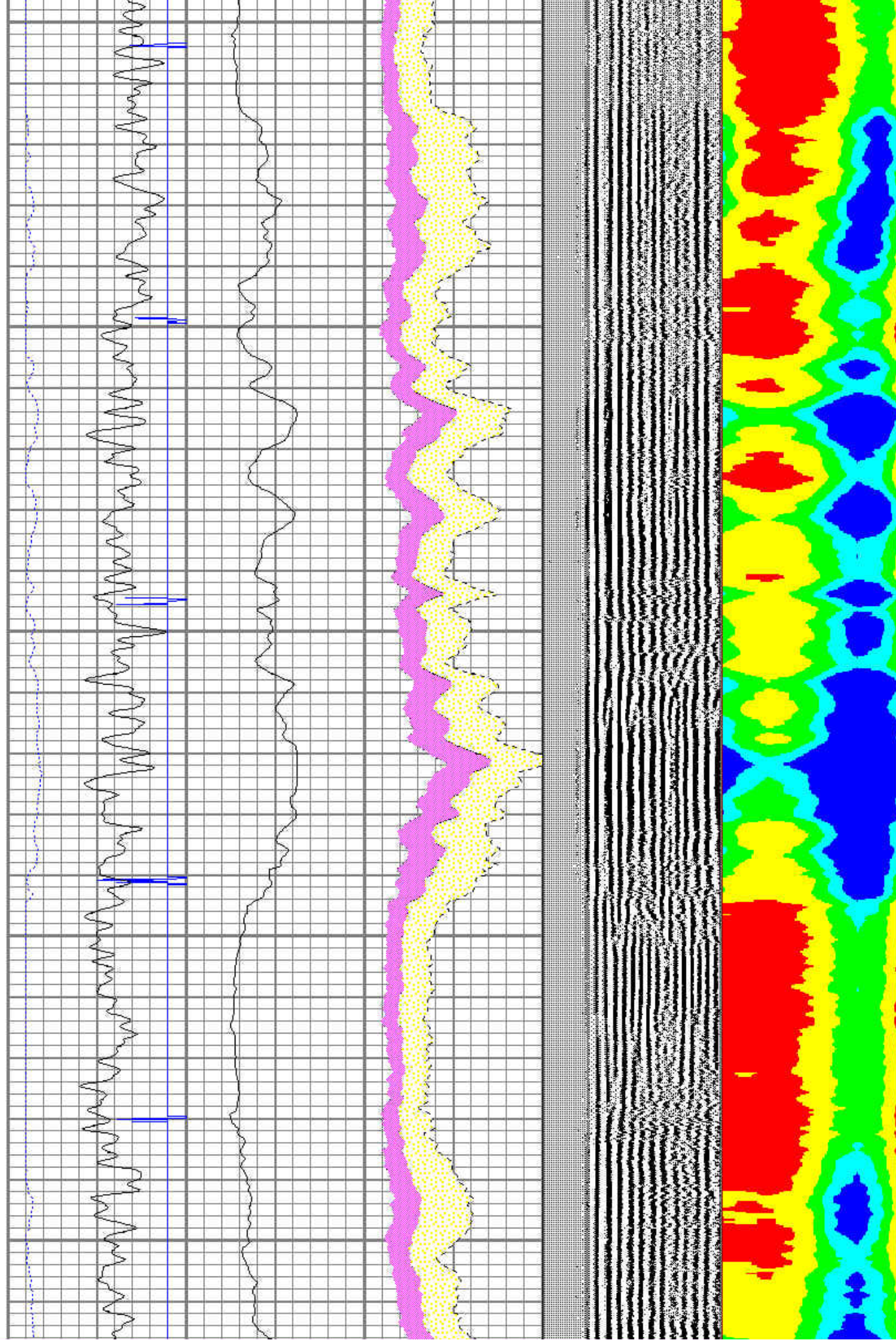


The figure consists of two vertically stacked panels. The top panel shows a time series plot of a signal (black line) with a fitted model (dashed line) and a confidence interval (shaded area). The signal exhibits a clear periodic oscillation. The bottom panel shows the spectrogram of the signal, with a color bar indicating the power spectrum. The spectrogram displays a series of horizontal lines, indicating the frequency components of the signal over time.

4200

4300

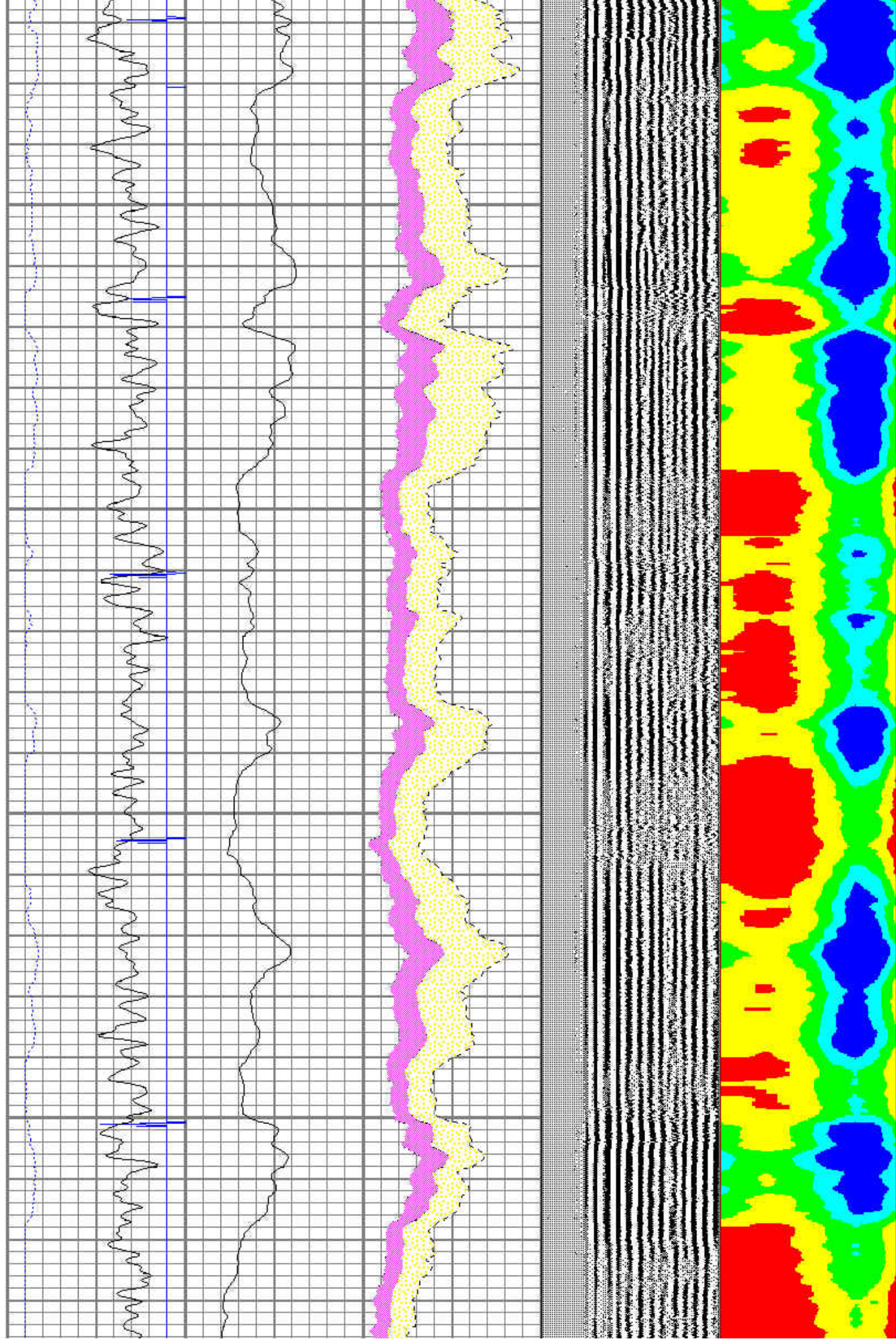




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4600

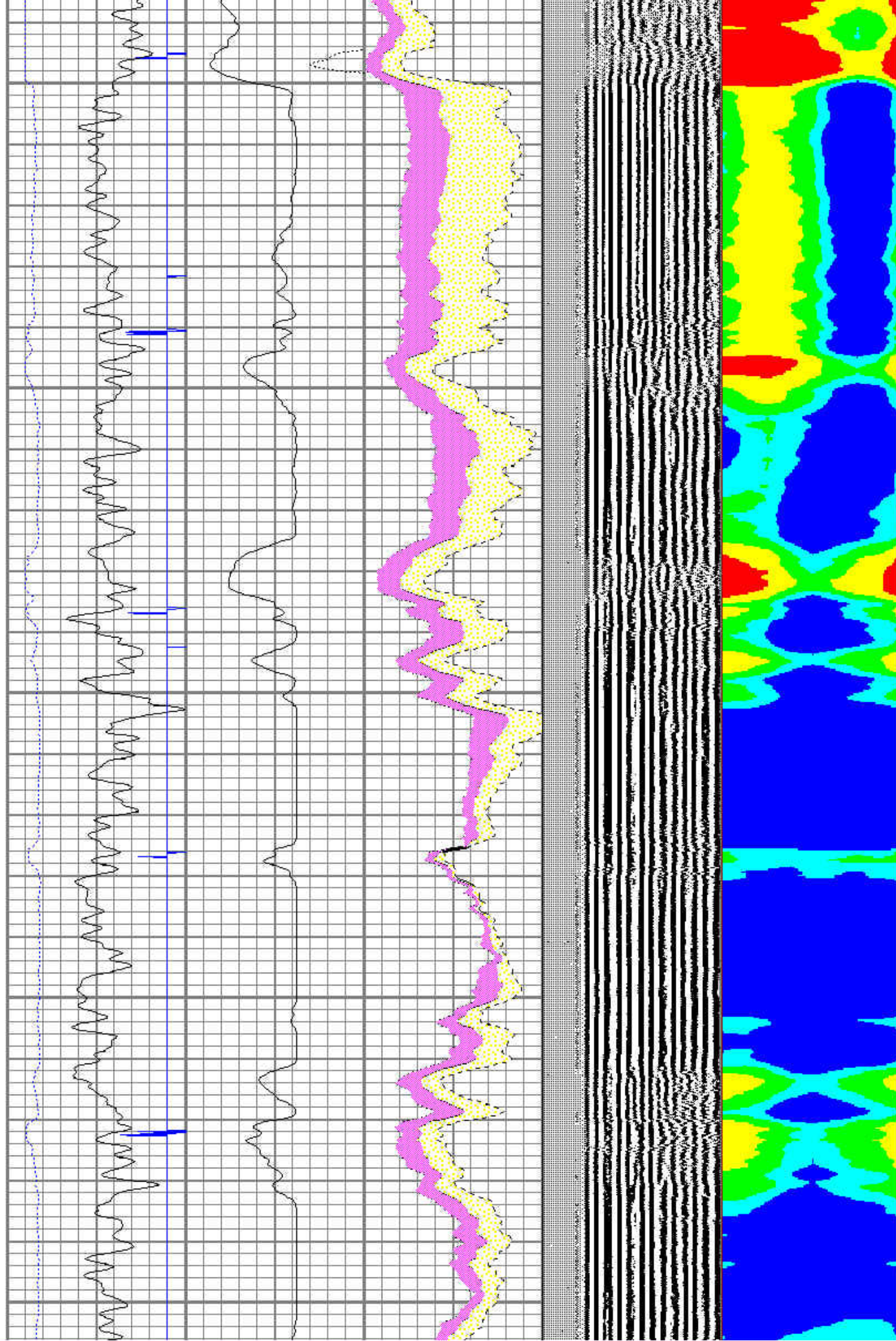
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4800

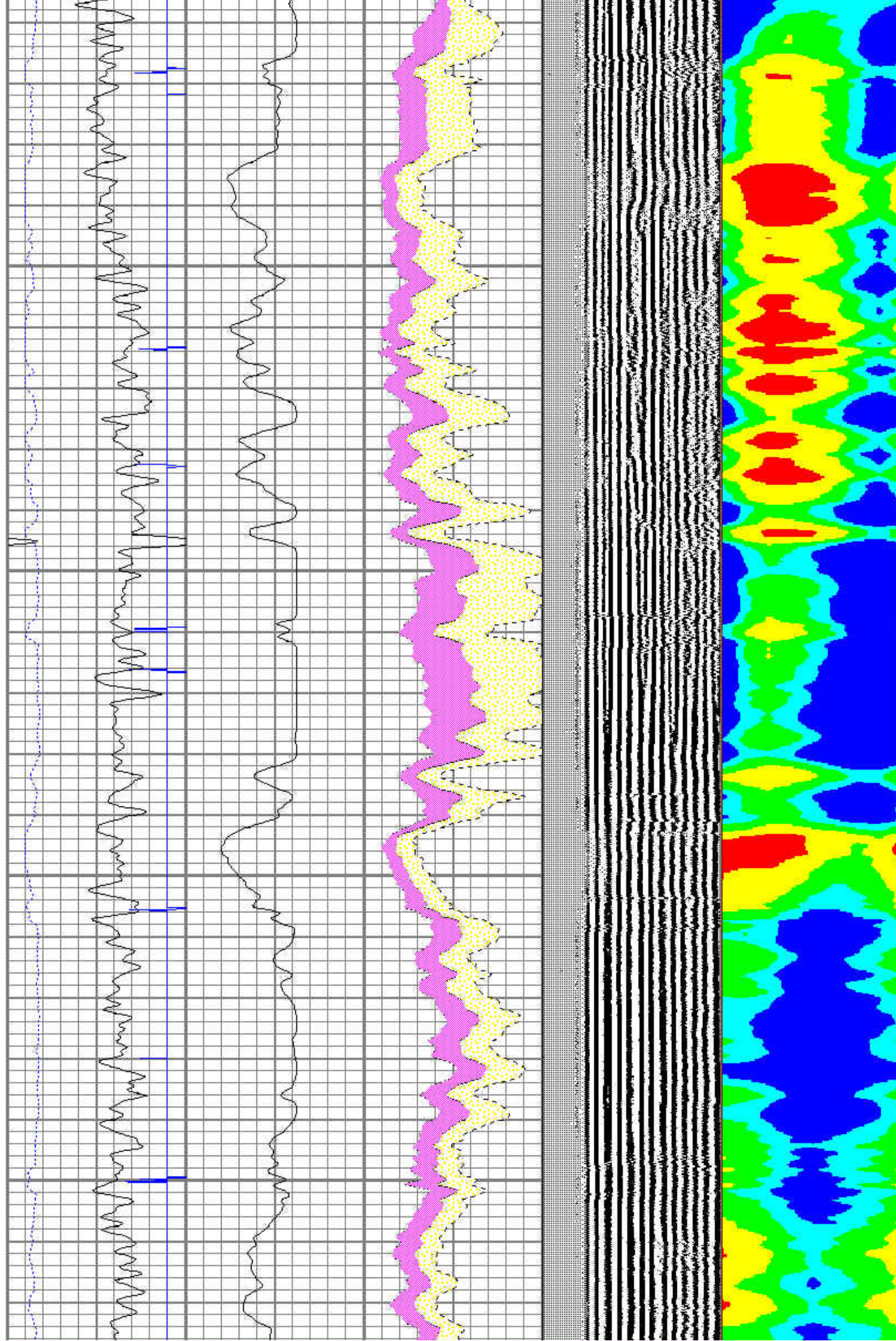
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5000



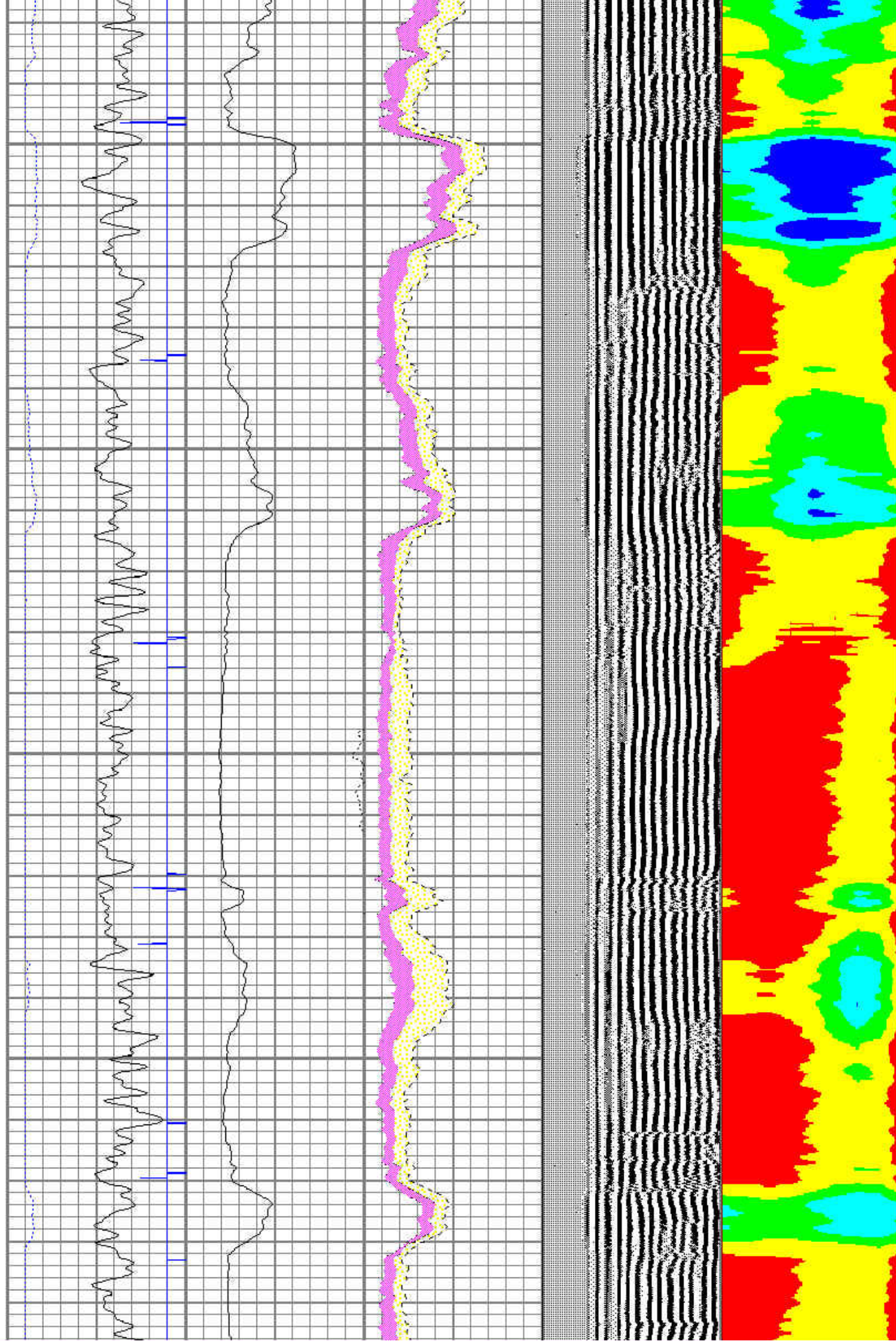
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5200



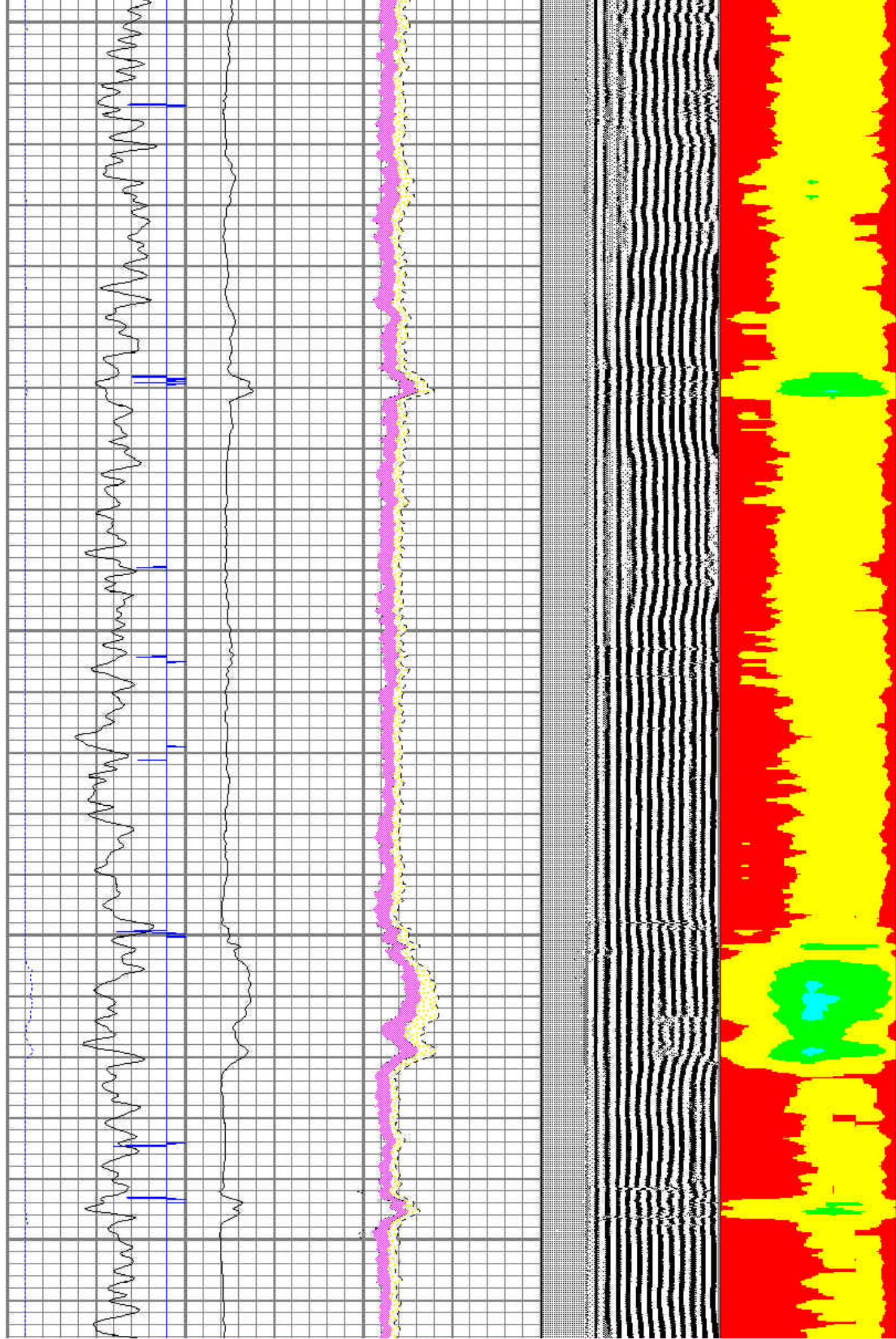
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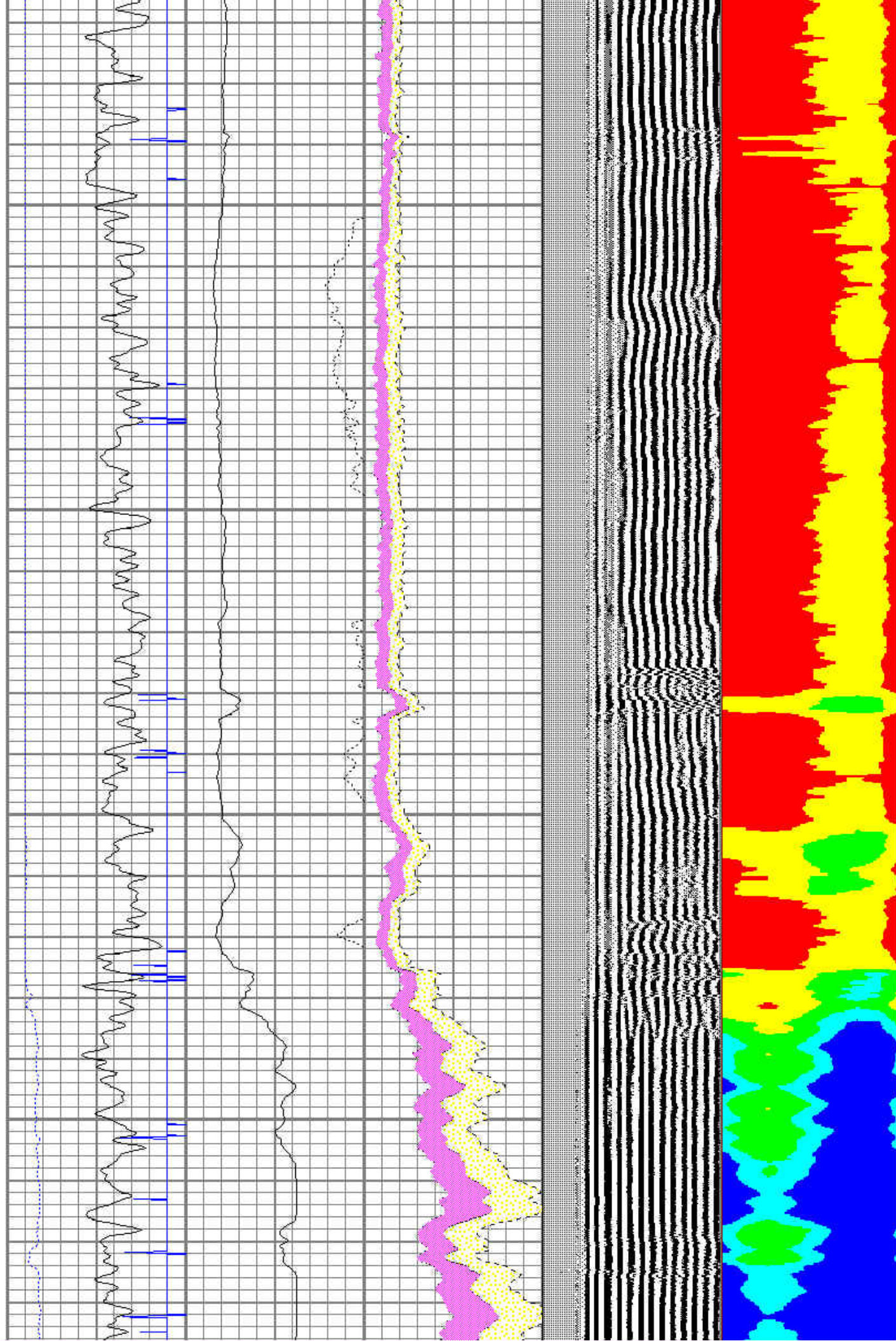
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5600



5700

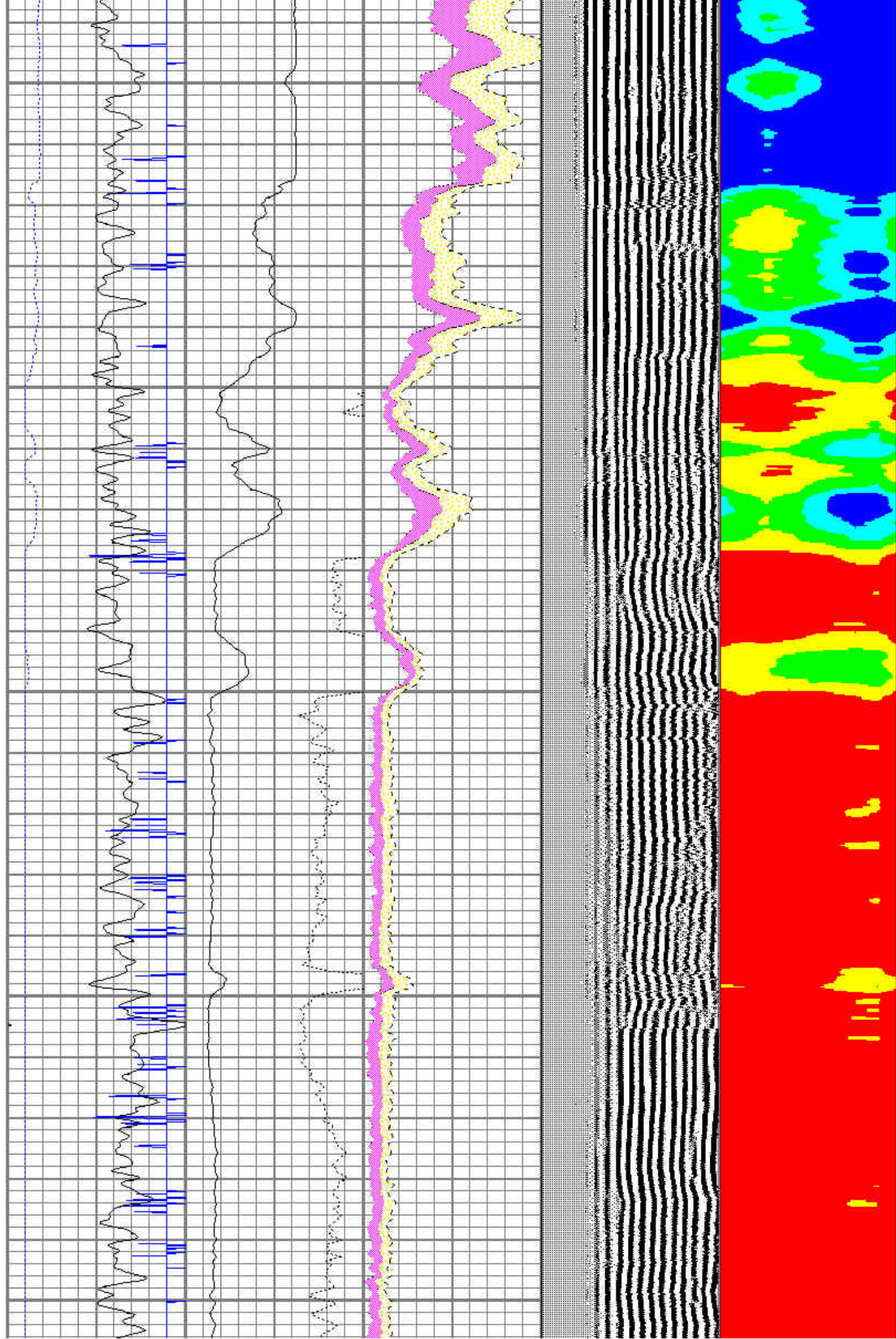
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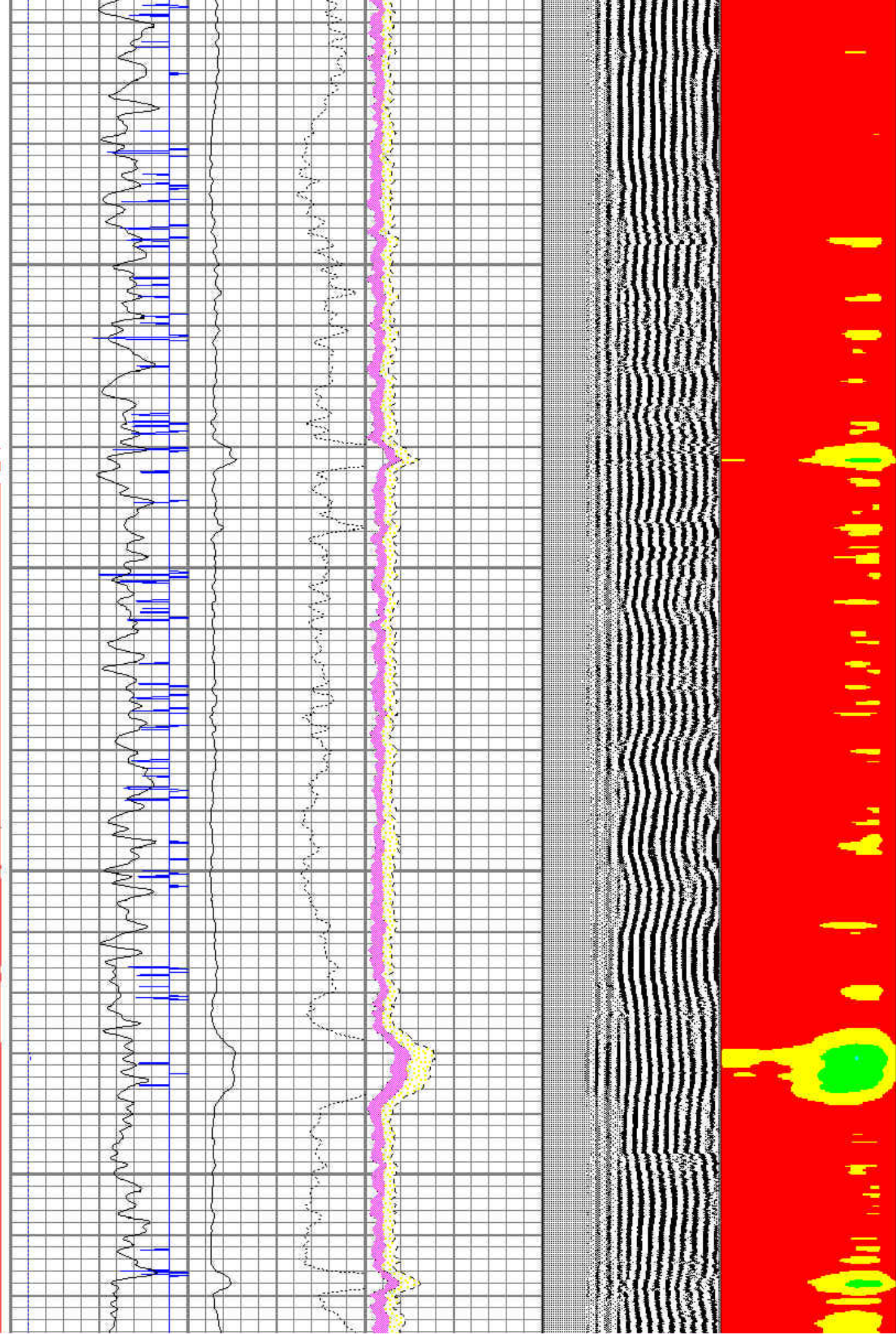
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6000

6100

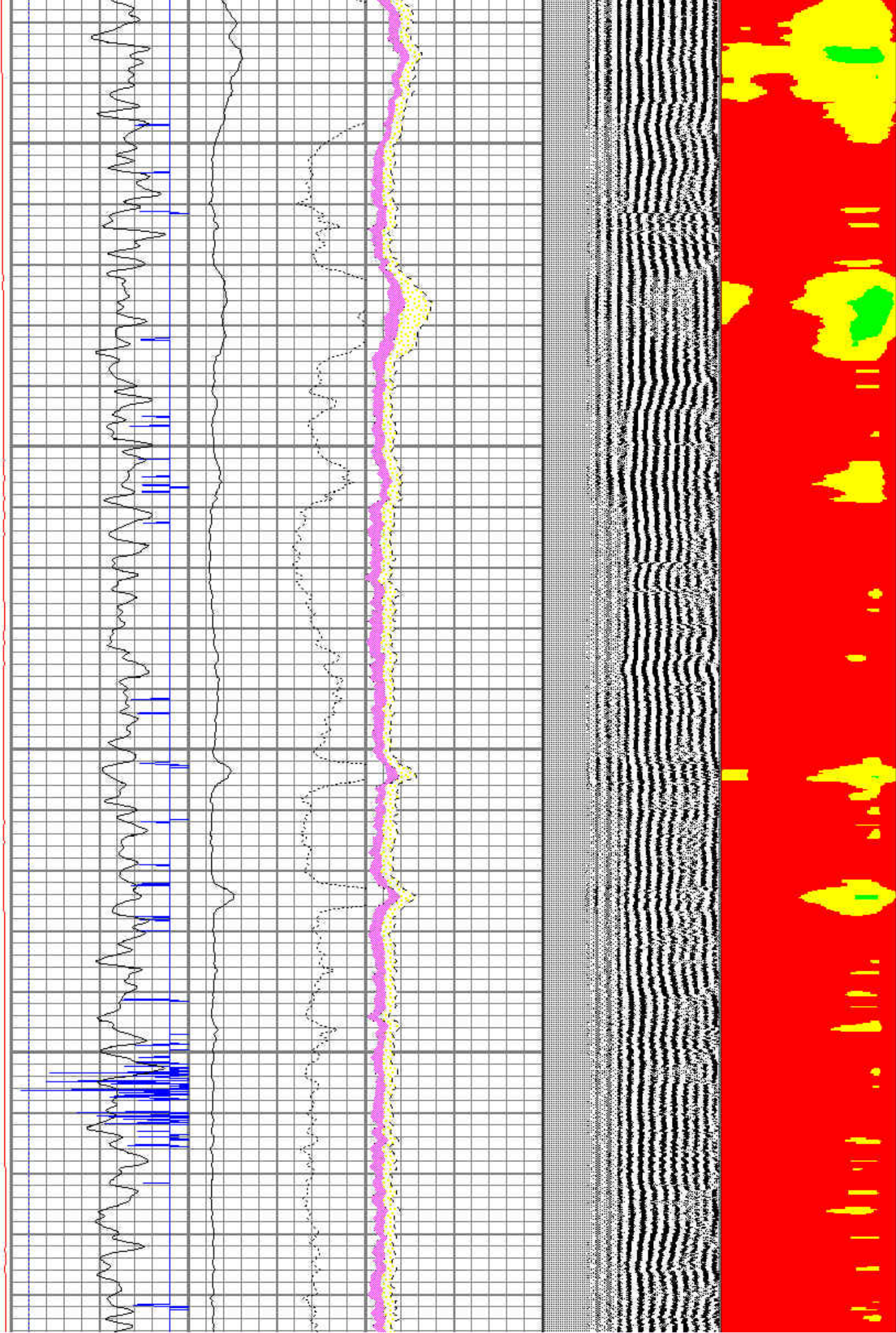


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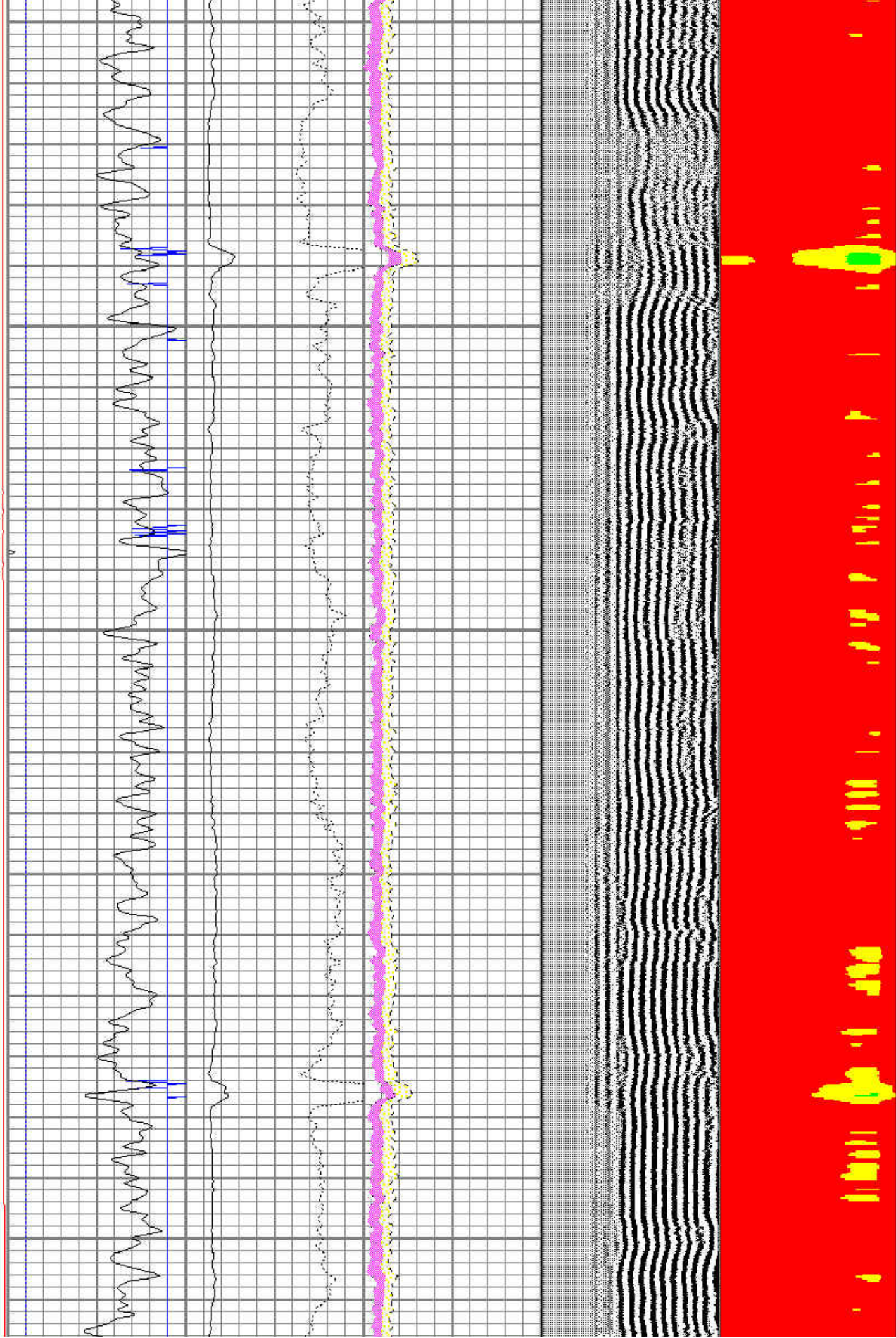
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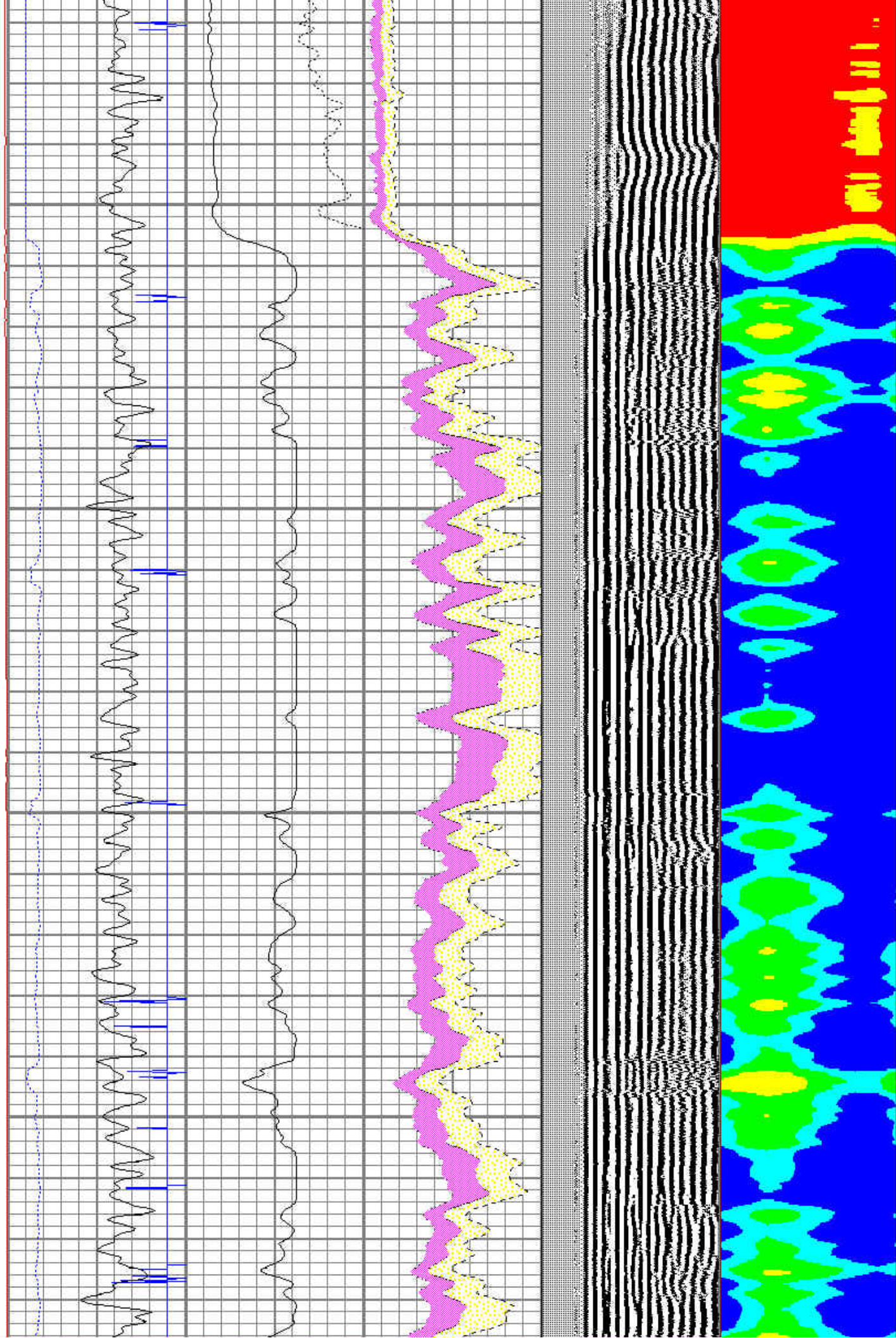
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6600

6700

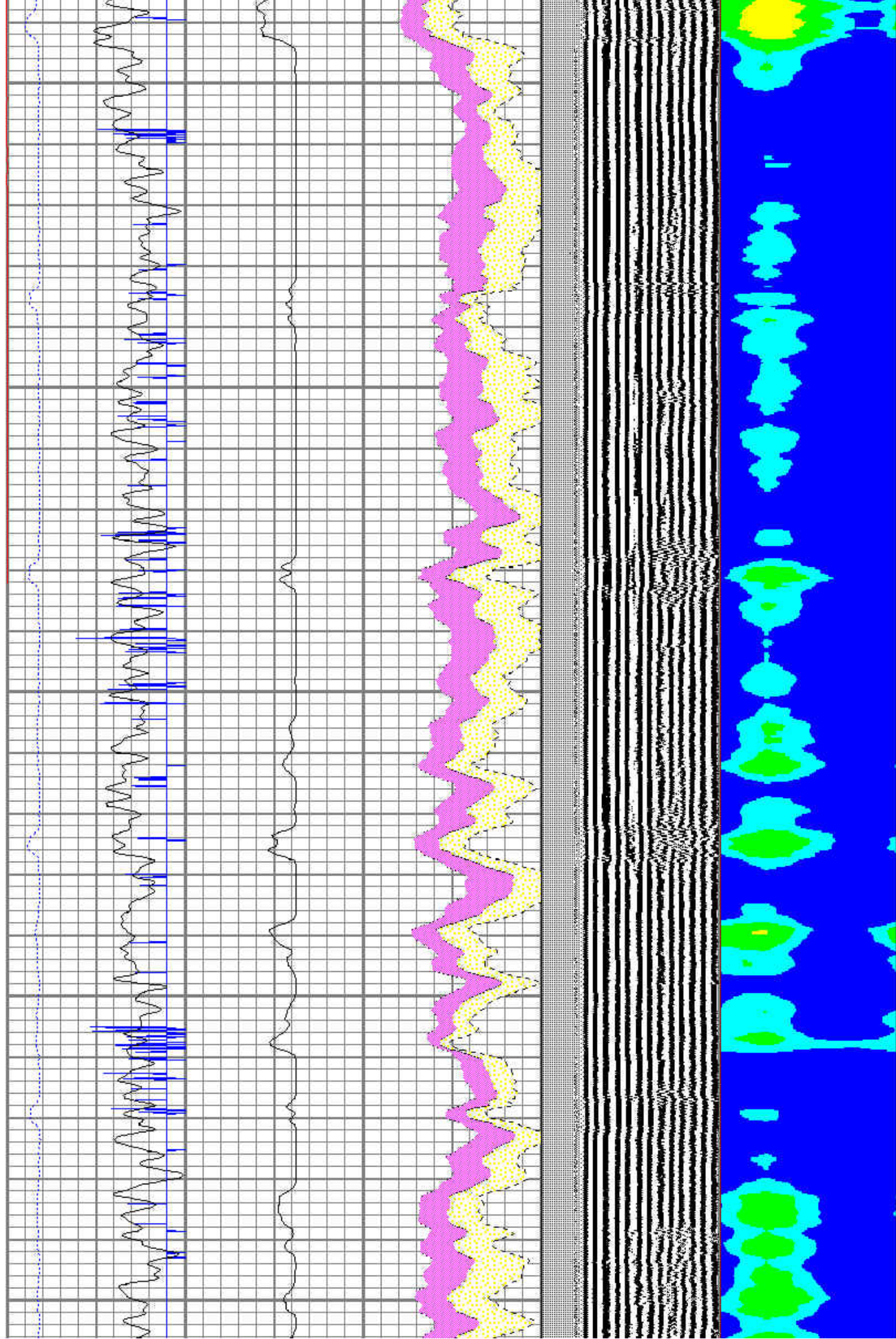




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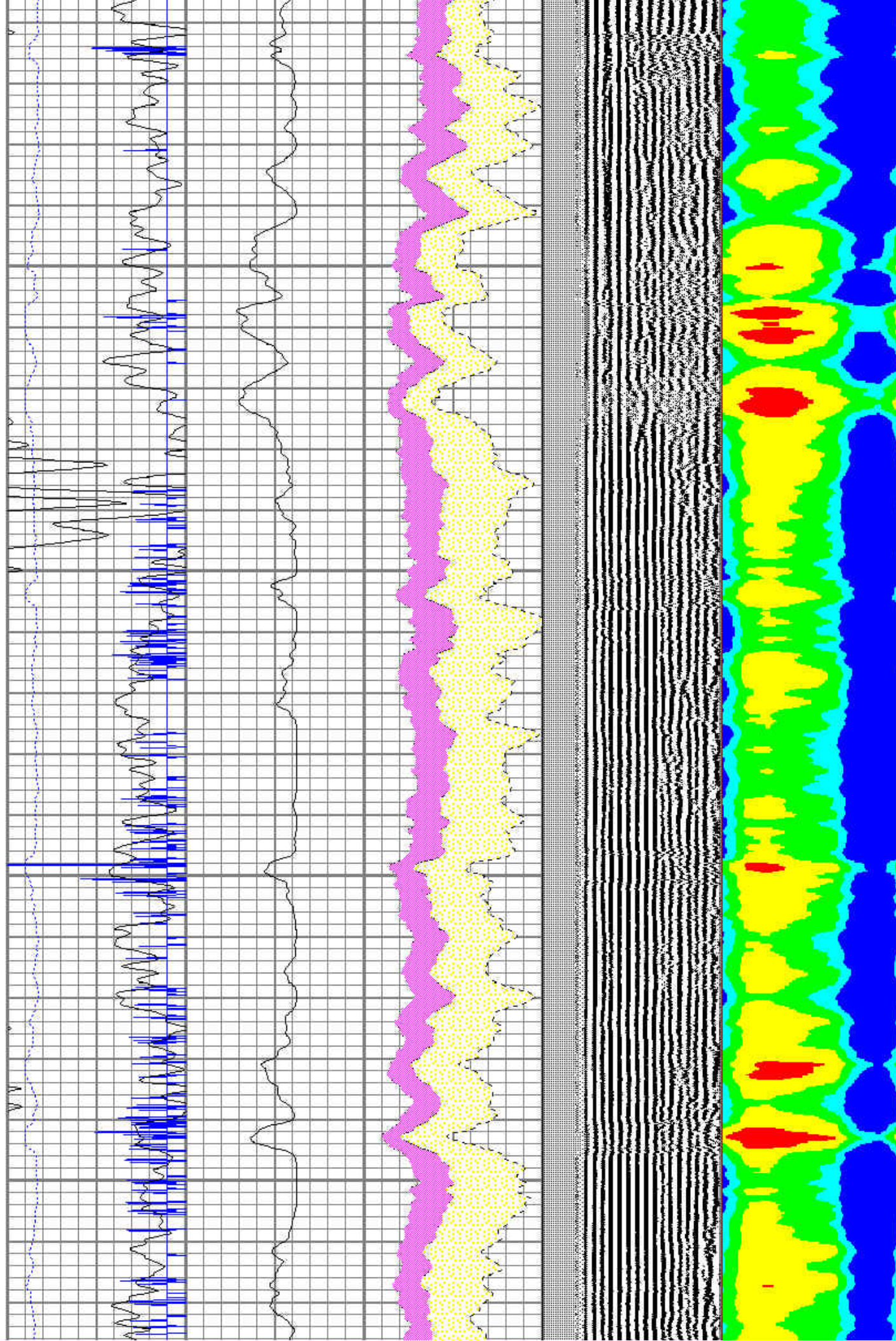
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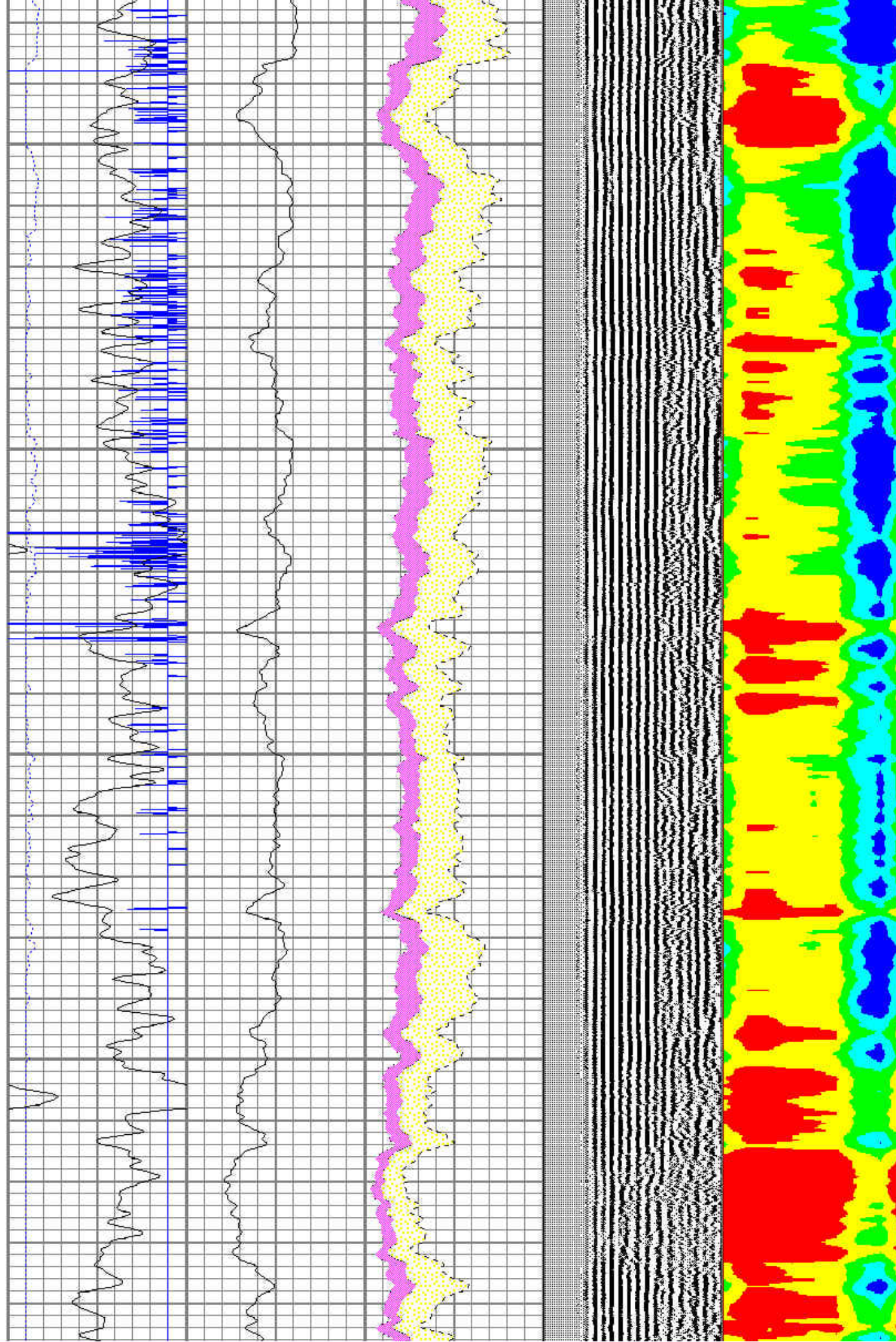
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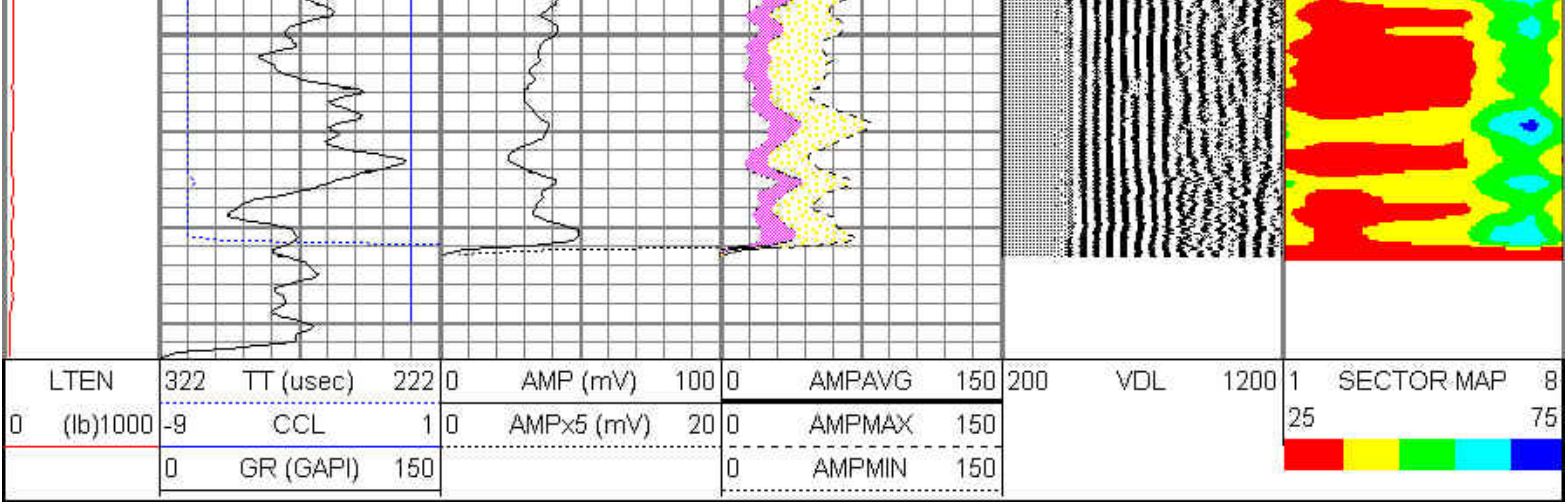
7300

7400






This figure displays a multi-panel analysis of a time series. The top panel shows a noisy blue line plot. The second panel shows a smoother black line plot. The third panel shows a yellow shaded area with a magenta border, likely representing a confidence interval. The fourth panel is a grayscale spectrogram showing frequency content over time. The bottom panel is a color-coded spectrogram with a rainbow scale, highlighting specific frequency bands.



Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			PTS275	2.83	2.75	
WVFS3FT	11.63					
WVFCAL	11.63					
WVFS1	11.63					
WVFS2	11.63					
WVFS3	11.63					
WVFS4	11.63					
WVFS5	11.63					
WVFS6	11.63					
WVFS7	11.63					
WVFS8	11.63					
WVFS5FT	10.63					
			RBT-Probe (4.5040904) Prototype Probe Radli Bond Tool with Digital Telemetry	8.88	2.75	90.00
			PTS275	2.83	2.75	

CCL	3.63		4.54	2.75	57.00
GR	0.89				

Dataset: matthews4d14h.db: field/well/run1/pass3

Total Length: 19.08 ft

Total Weight: 147.00 lb

O.D.: 2.75 in