



GAMMA RAY CCL CEMENT BOND VDL SECTOR MAP

Company	EnCana Oil & Gas (USA) Inc.	
Well	Grant Hurt 1B-14H G268	
Field	Wattenberg	
County	Weld	
State	Colorado	Cour

Company	EnCana Oil & Gas (USA) Inc.	Other Services
Well	Grant Hurt 1B-14H G268	
Field	Wattenberg	
County	Weld	
State	Colorado	
Country	USA	
Location:	API # : 05-123-38089	None
2449' FNL & 1589' FEL SWNE		
SEC 14	TWP 2N	RGE 68W
Permanent Datum	GL	Elevation 4888
Log Measured From	KB	
Drilling Measured From	KB	
		Elevation
		K.B. 4918
		D.F. 4917
		G.L. 4888

Date	August 7, 2014		
Run Number	1		
Depth Driller	14255		
Depth Logger	7546		
Bottom Logged Interval	7545		
Top Log Interval	0		
Open Hole Size	8-3/4"		
Type Fluid	Drilling Mud		
Density / Viscosity	11.5 / 41		
Max. Recorded Temp.	NA		
Estimated Cement Top	78		
Time Well Ready	0145		
Time Logger on Bottom	0245		
Equipment Number	49		
Location	Brighton, CO		
Recorded By	Clint Christensen		
Witnessed By	Mike Quintana		

Borehole Record				Lubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
Casing Record		Size		Wgt/Ft		Top	Bottom
Surface String							
Prot. String							
Production String		7"		26 lbs		0	7736'
Liner							

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All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not 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.


Comments

Depth Correlated to 7" Tally

Patterson Rig 326

Thank You for using Pioneer Energy Services

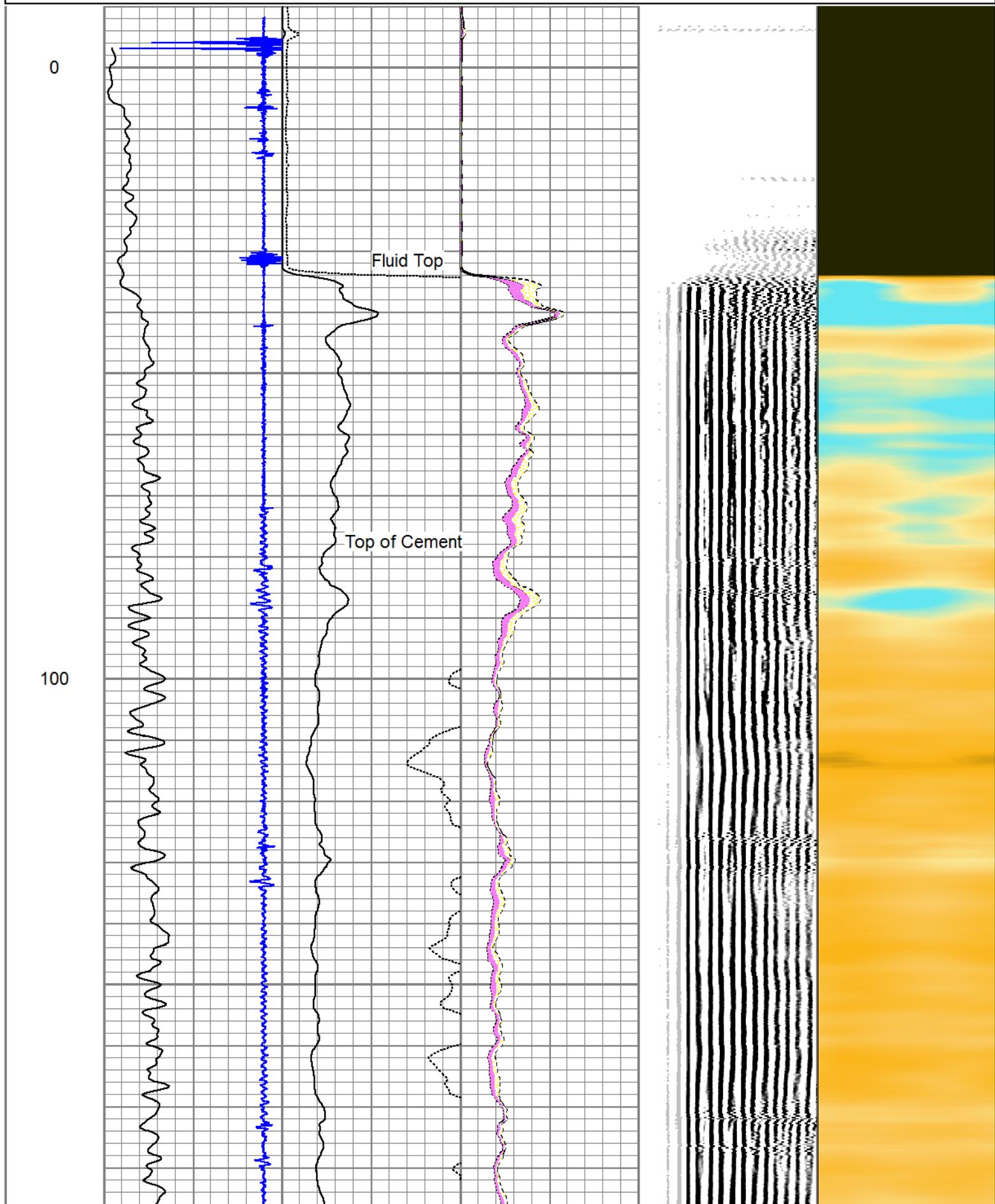
SO# 2-013619

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

			CENT #2 -A (1)	2.83	2.75	20.00
IntTemp	14.66					
WVF3FT	11.41					
WVFCAL	11.41					
WVFS1	11.41					
WVFS2	11.41					
WVFS3	11.41					
WVFS4	11.41					
WVFS5	11.41					
WVFS6	11.41					
WVFS7	11.41					
WVFS8	11.41					
WVF5FT	10.41					
			RBT-Probe (Base) Probe Radii Bond Tool with Digital Telemetry	8.92	2.75	90.00
			CENT-A (1)	2.83	2.75	20.00
CCL	3.92					
			GR-probe 2.75 (111205) probe Digital CCL Gamma	4.33	2.75	100.00
GR	1.13					
Dataset: 13619.db: field/well/run1/pass2 Total Length: 18.91 ft Total Weight: 230.00 lb O.D. 2.75 in						

Database File: 13619.db
 Dataset Pathname: Final
 Presentation Format: scbl02
 Dataset Creation: Thu Aug 07 04:35:15 2014

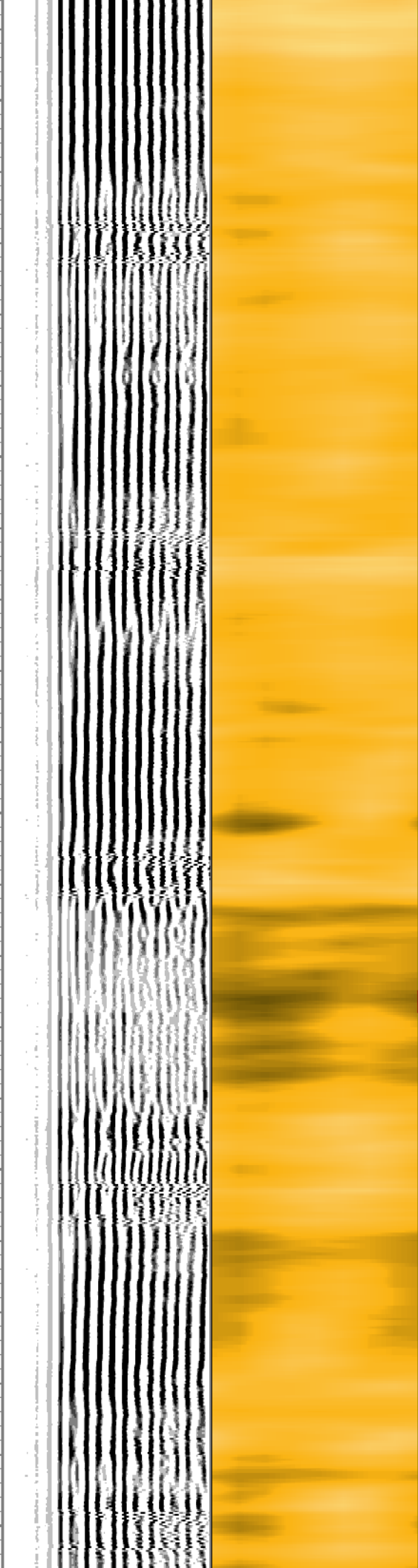
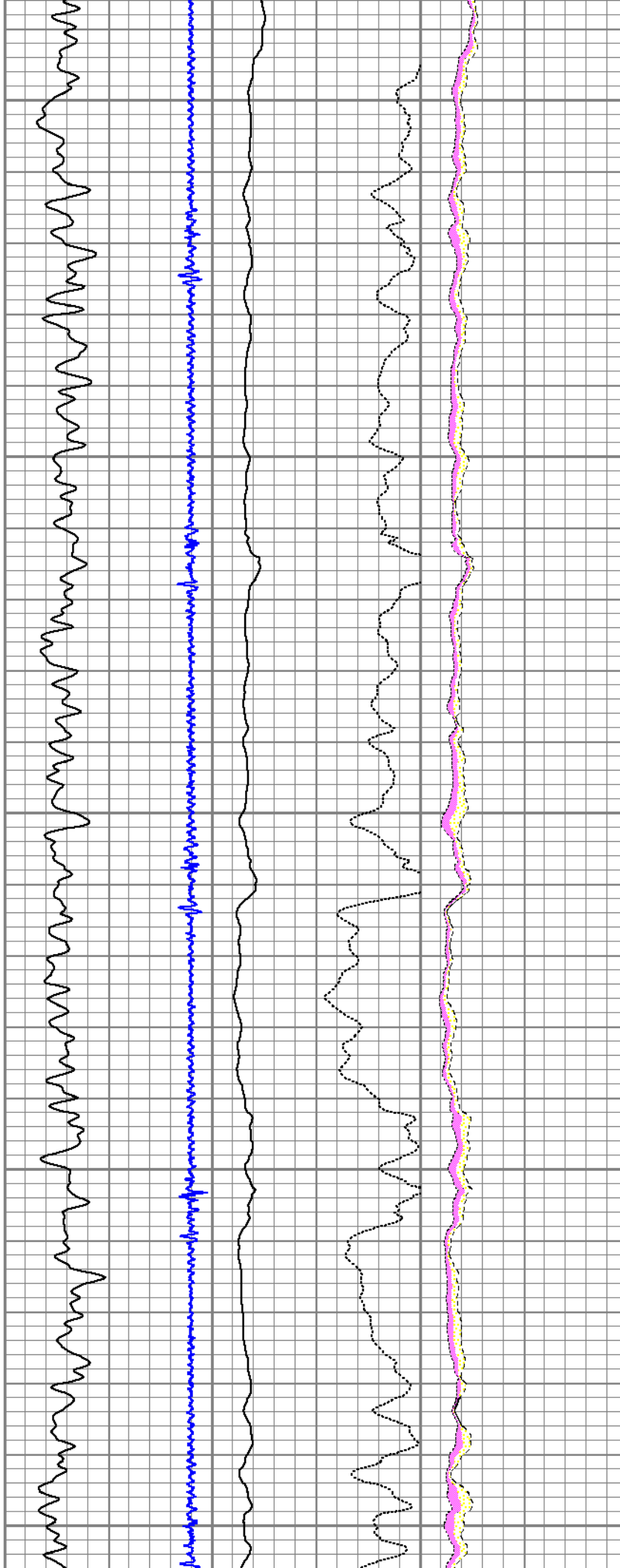
-9	CCL	1	0	AMP (mV)	100	0	AMPAVG	150	200	VDL	1200	1	SECTOR MAP	8
0	GR (GAPI)	200	0	AMPx5 (mV)	20	0	AMPMAX	150				10		60
						0	AMPMIN	150						



200

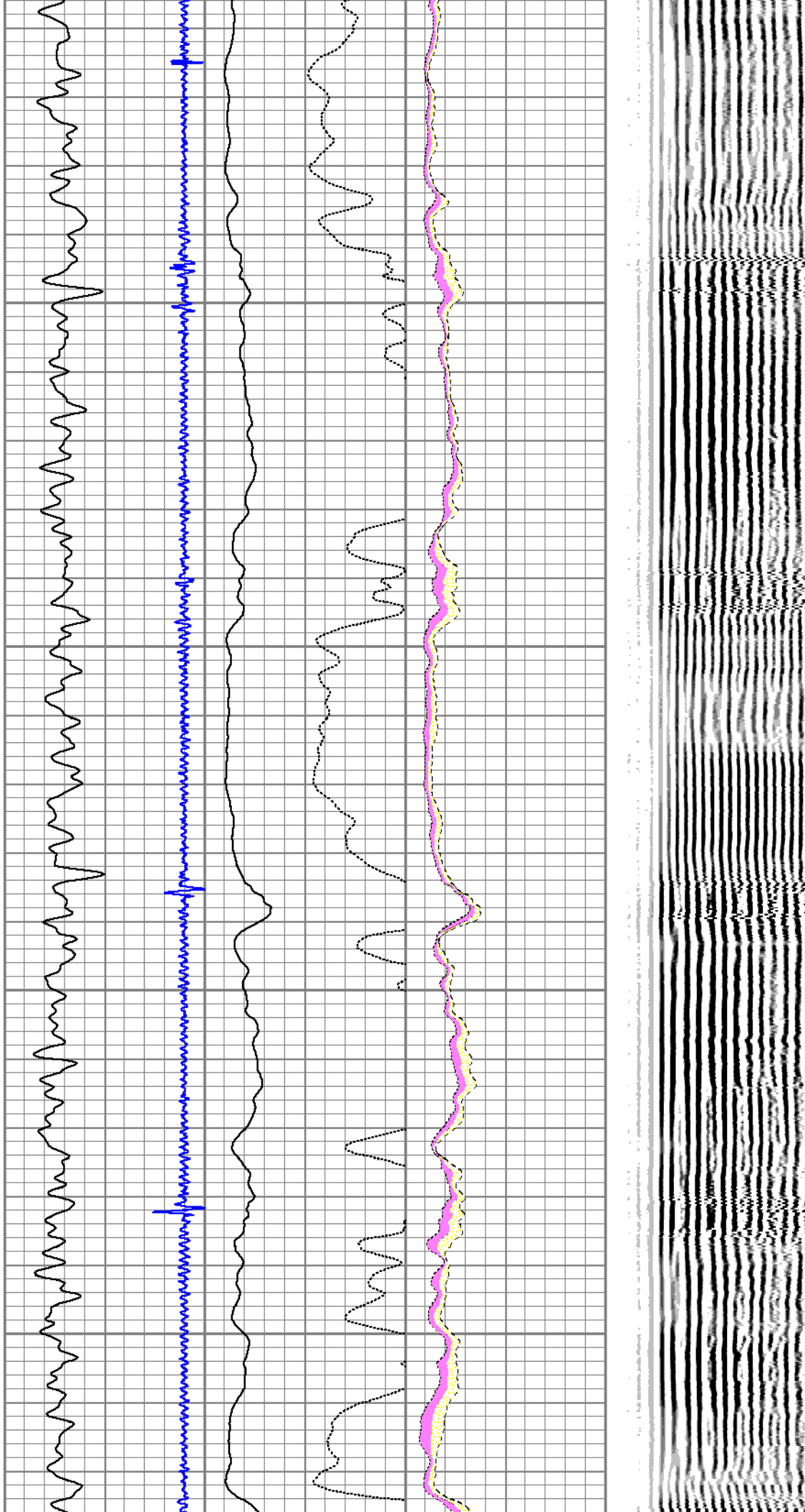
300

400



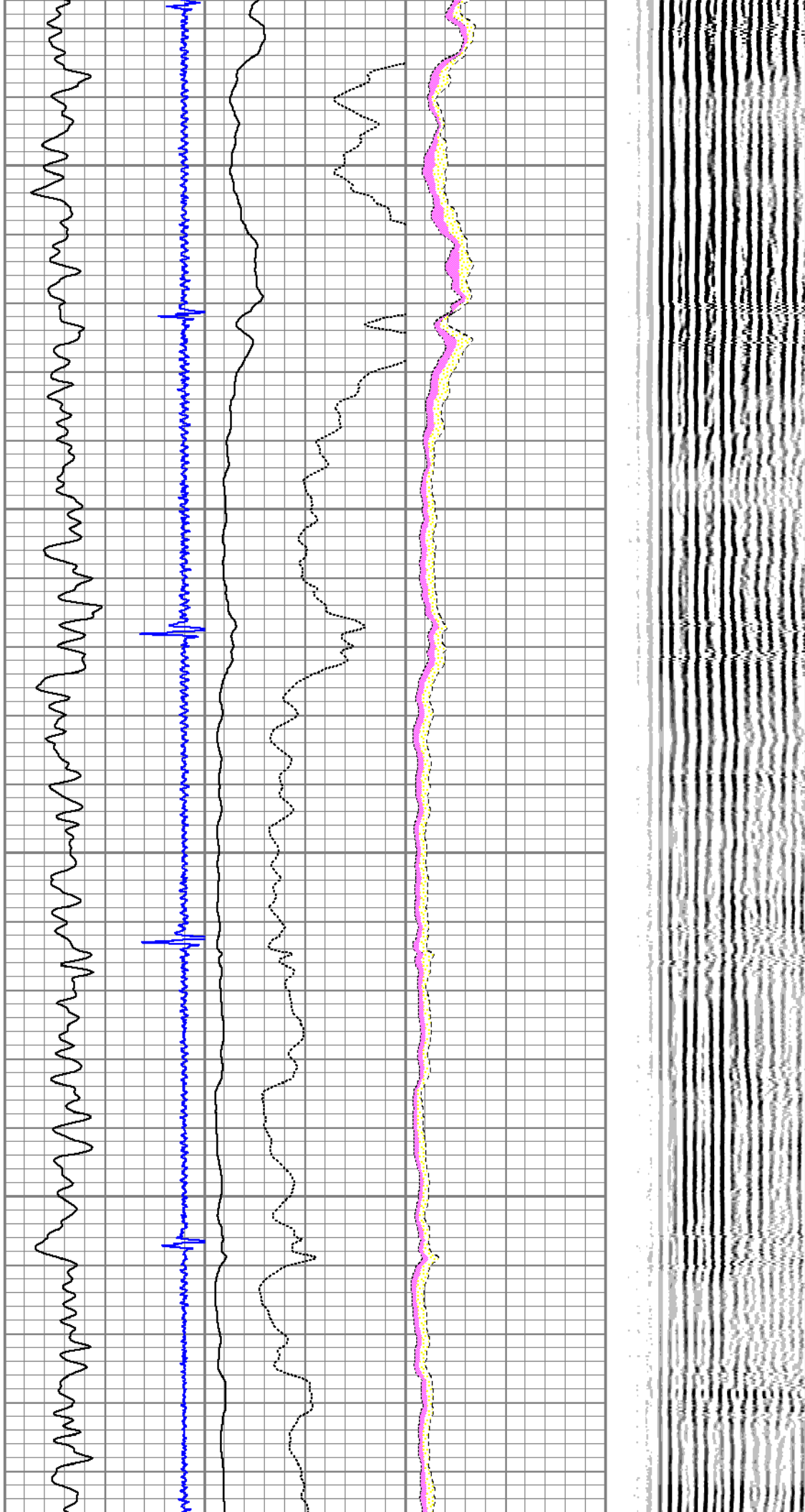
500

600



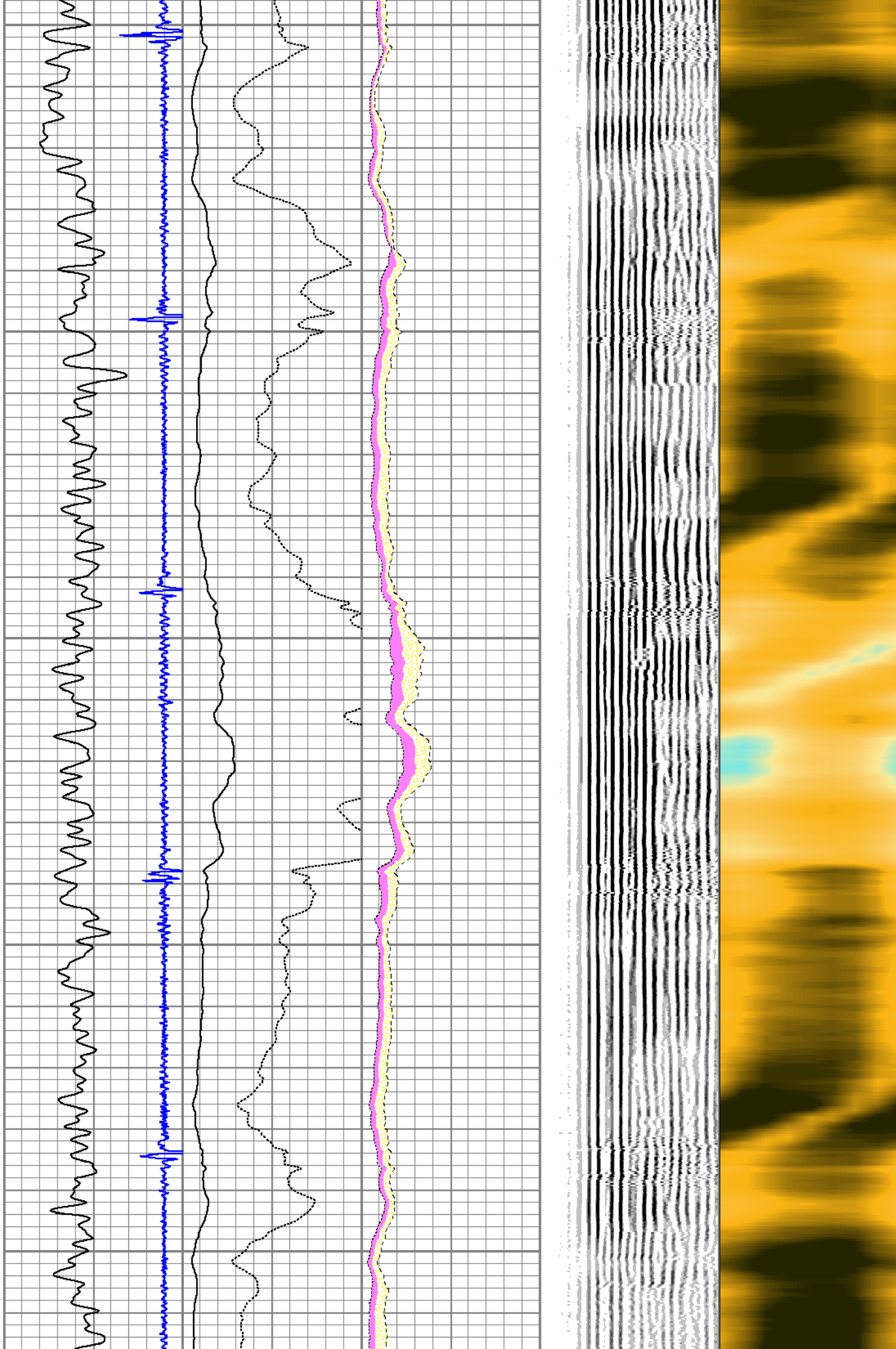
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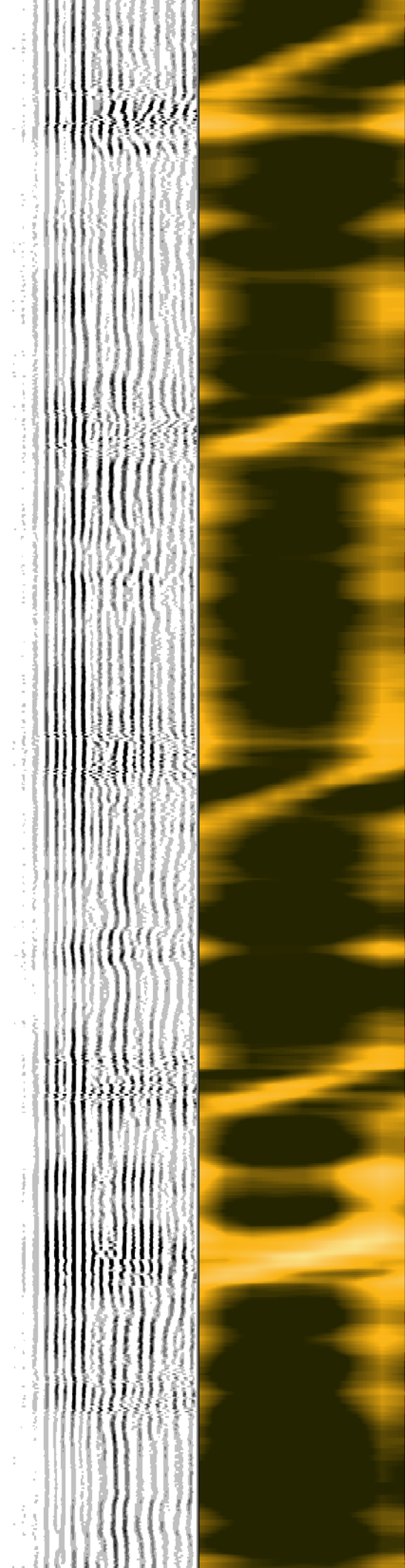
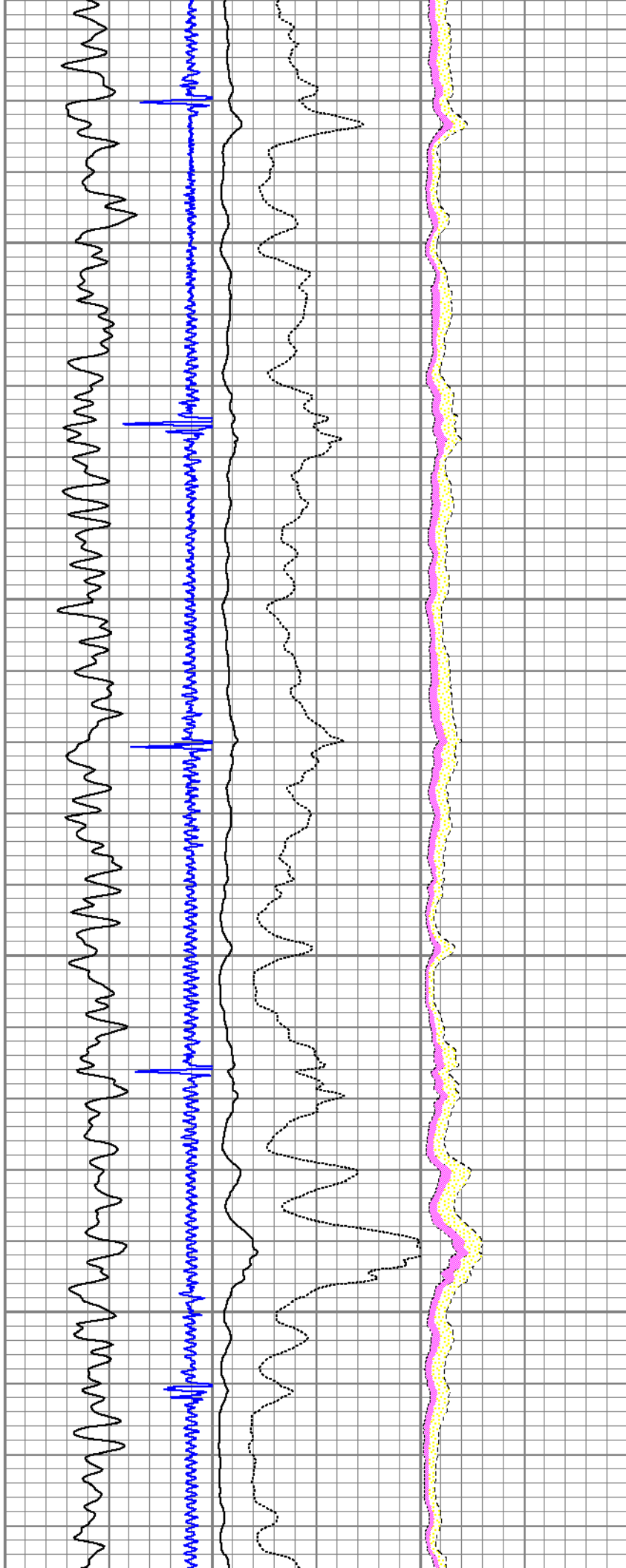
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900

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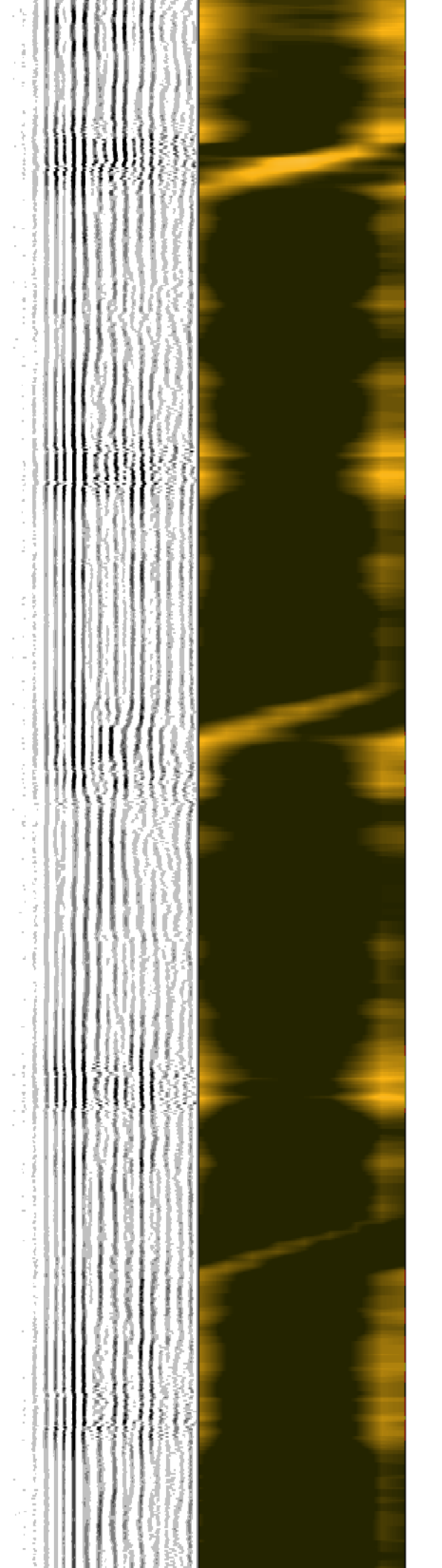
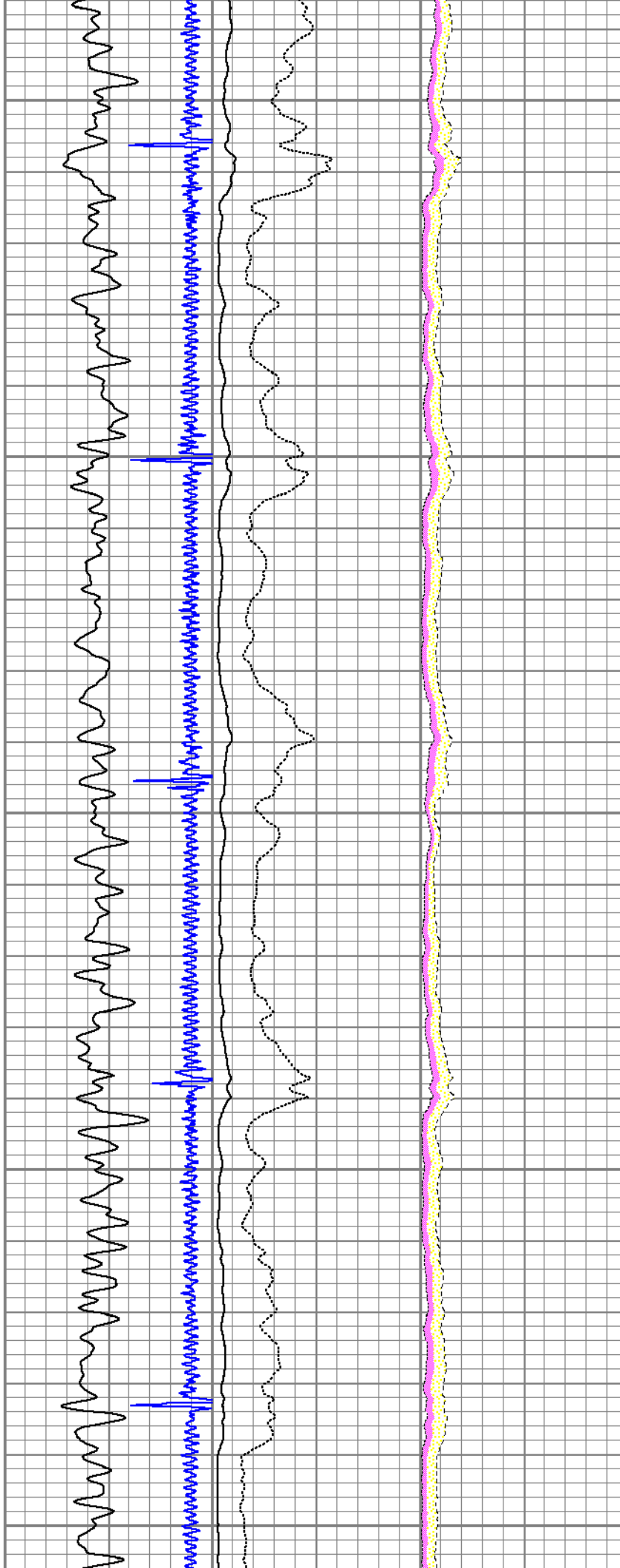




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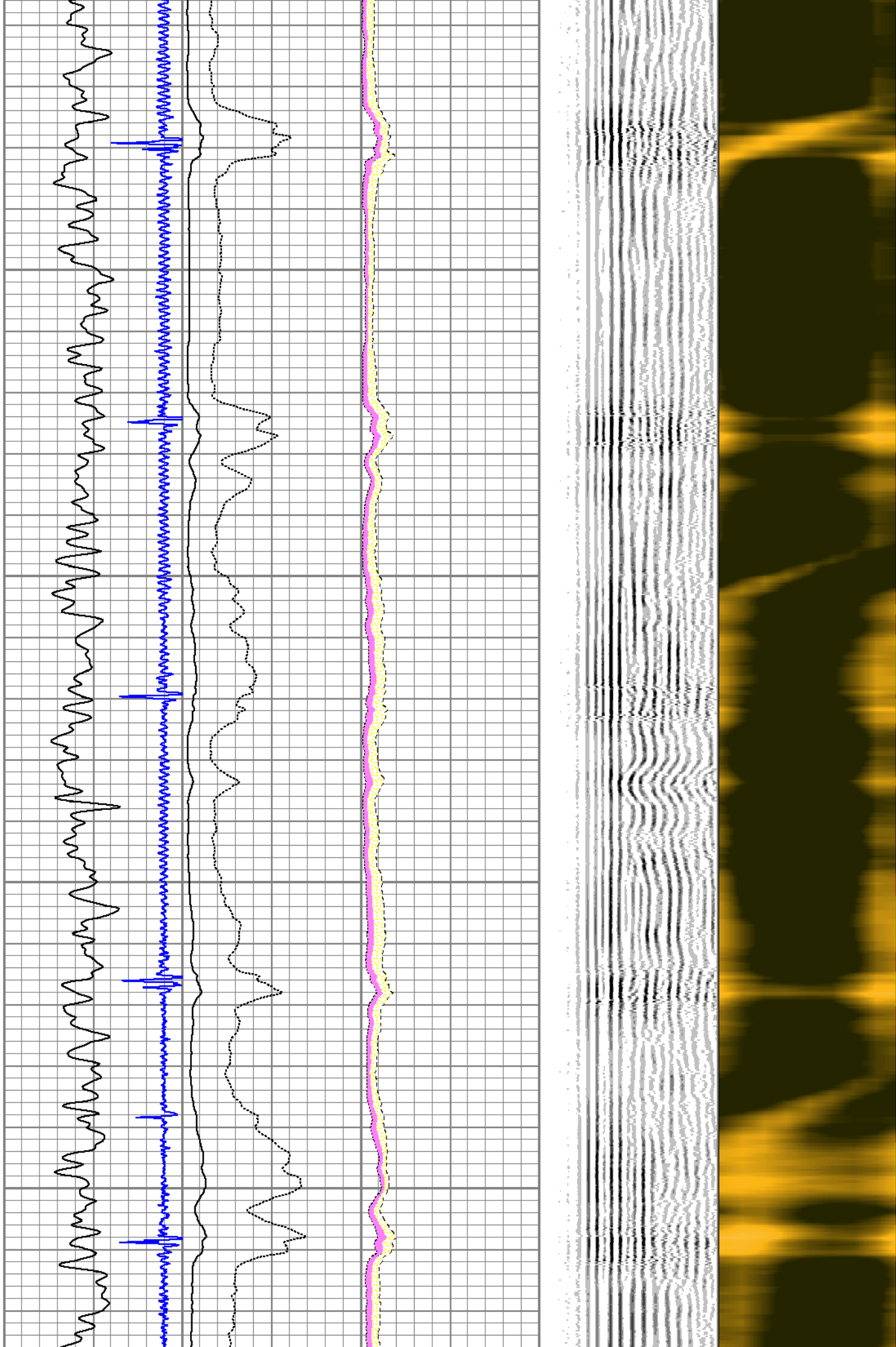
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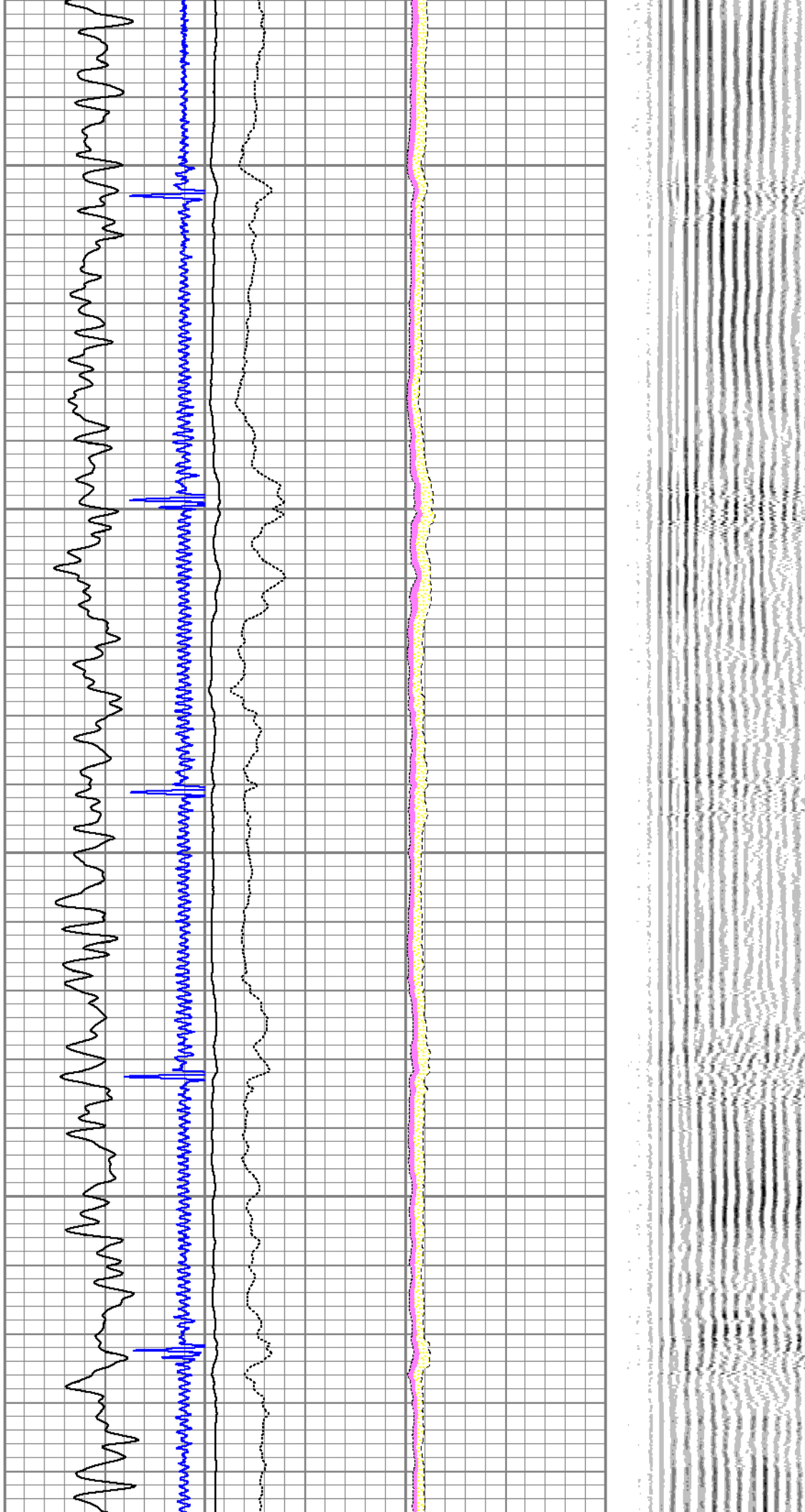
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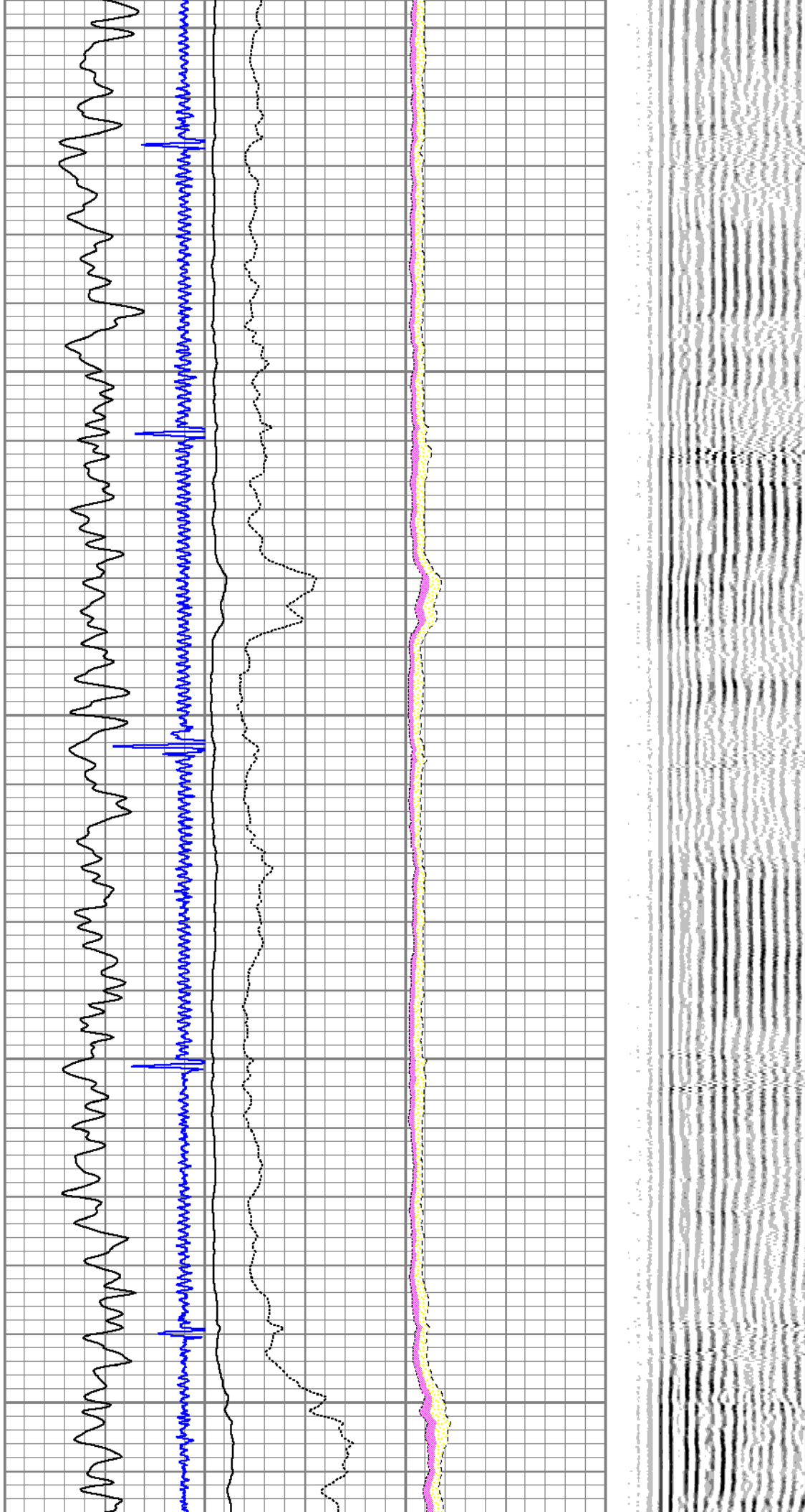
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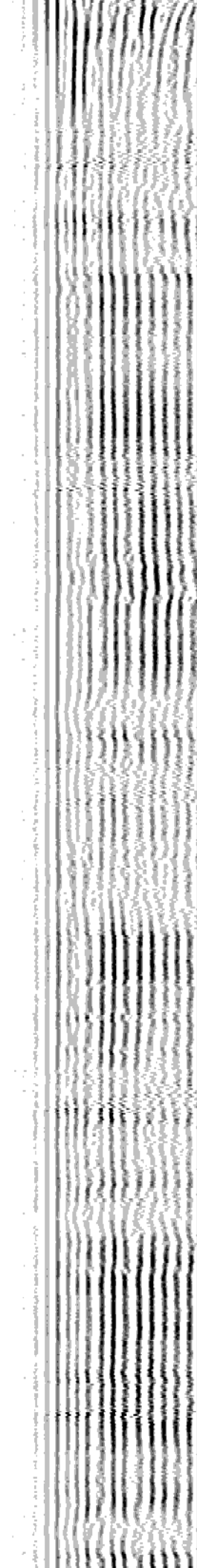
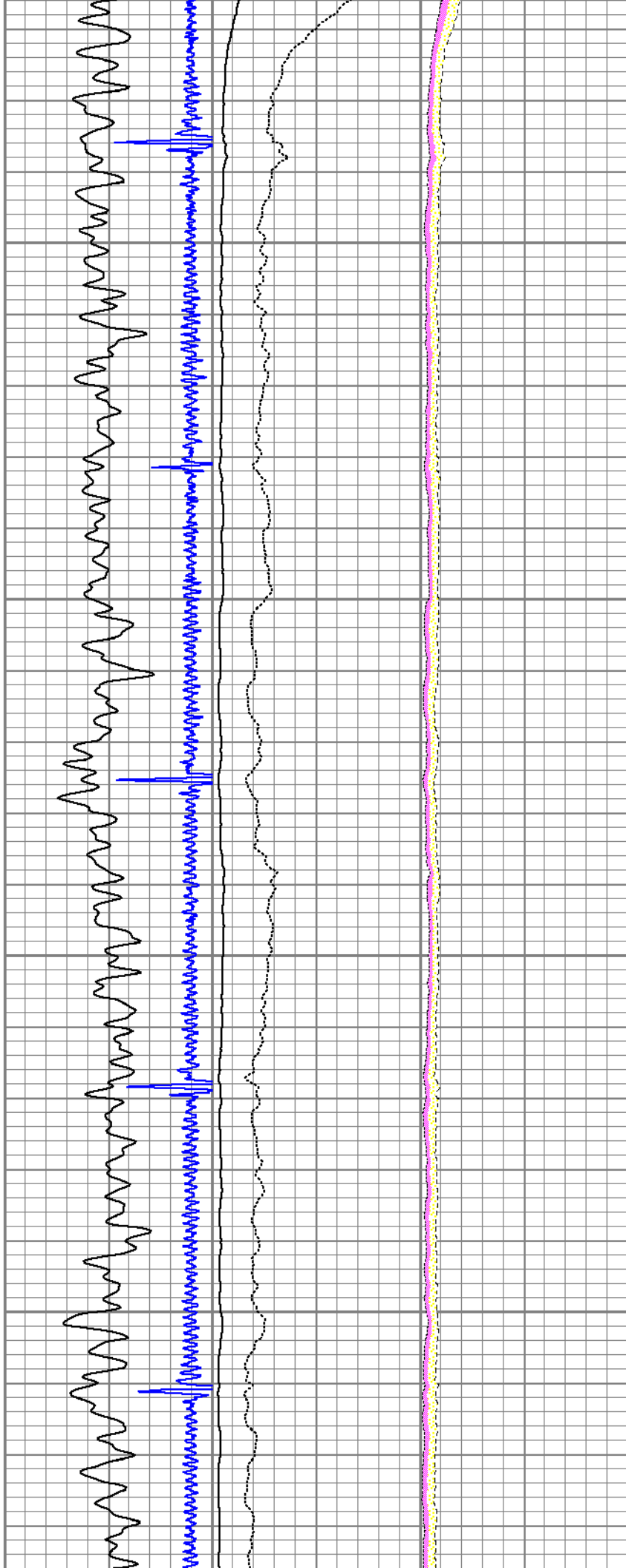
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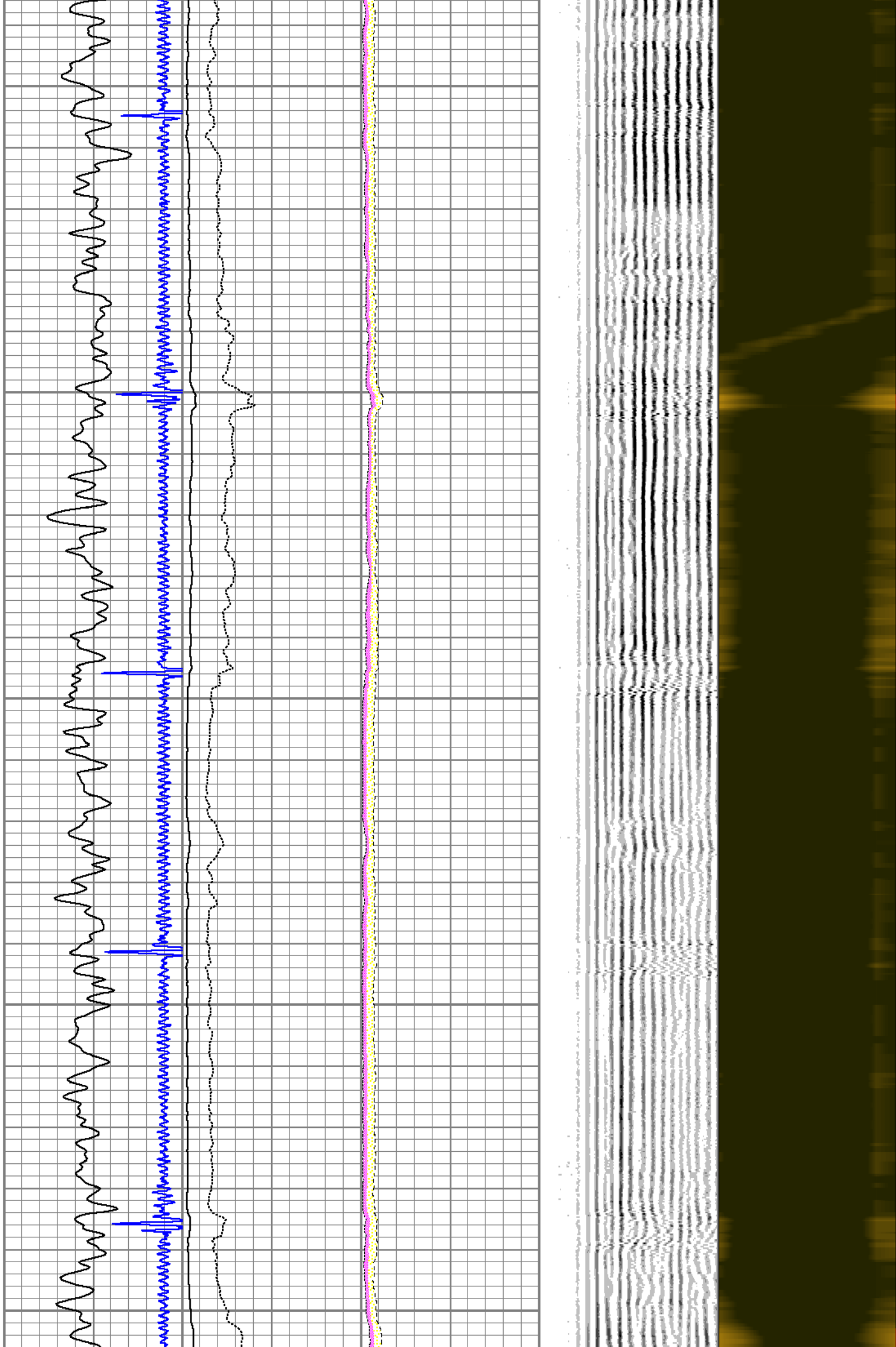
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2400

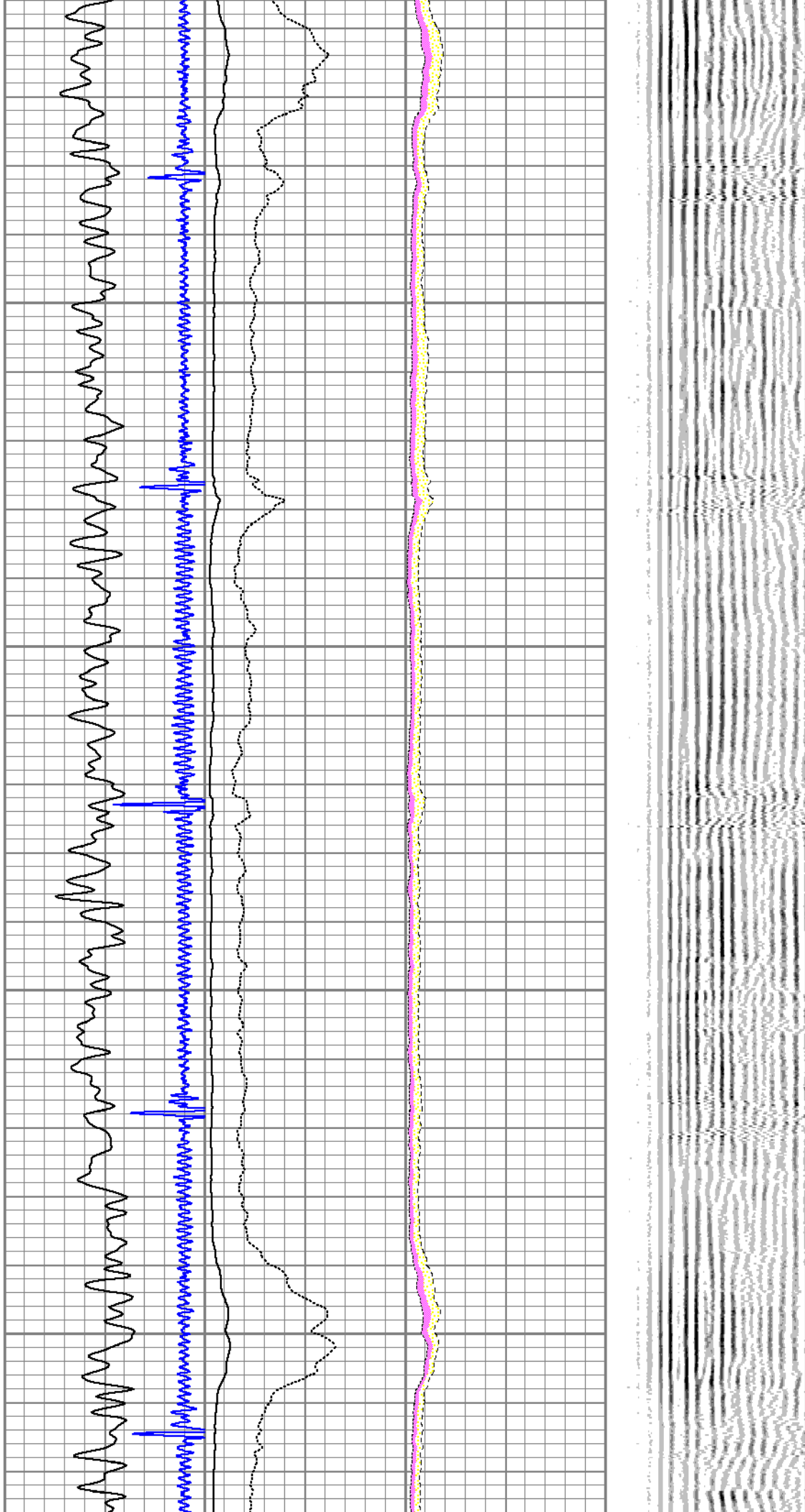
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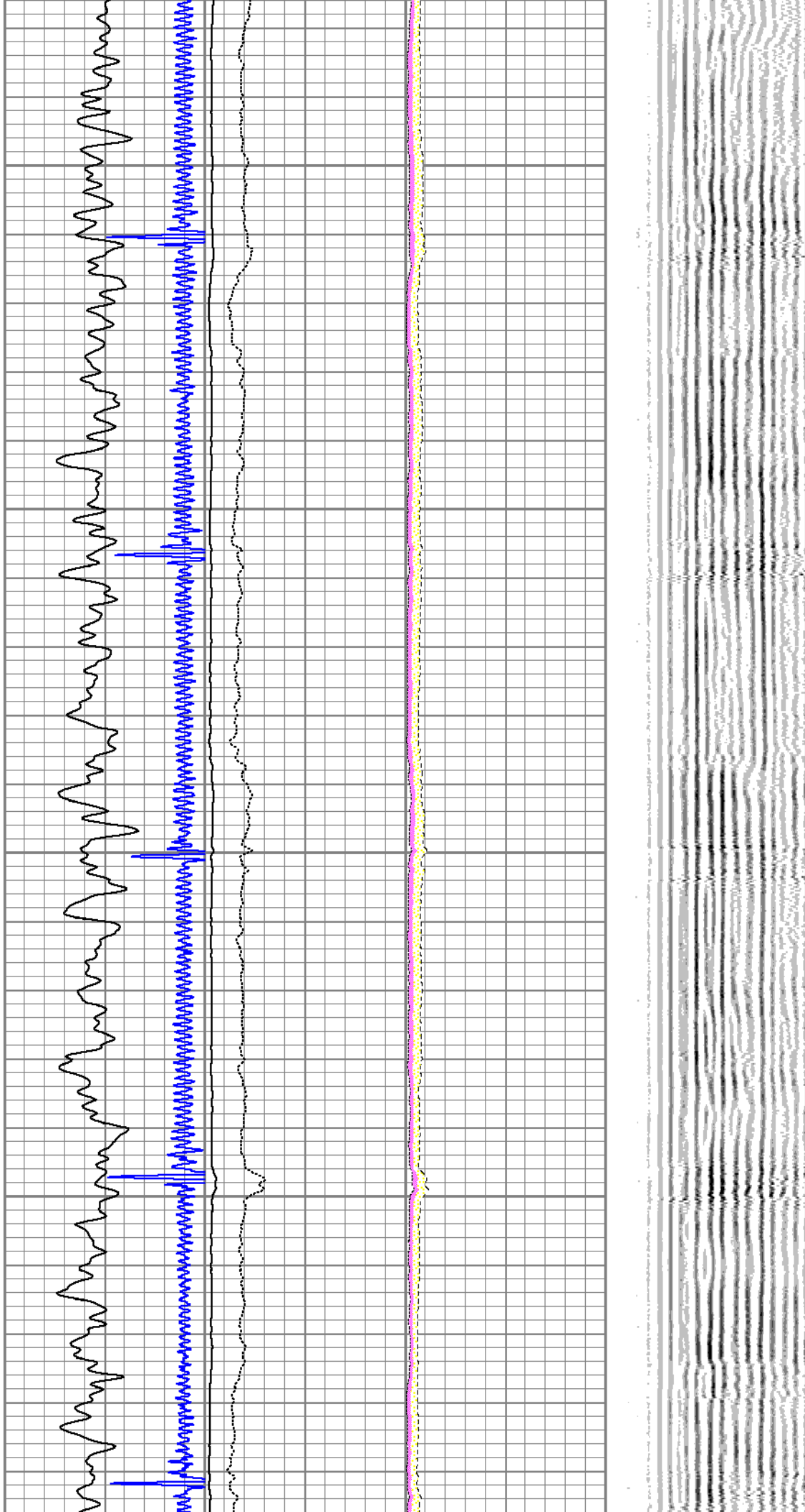
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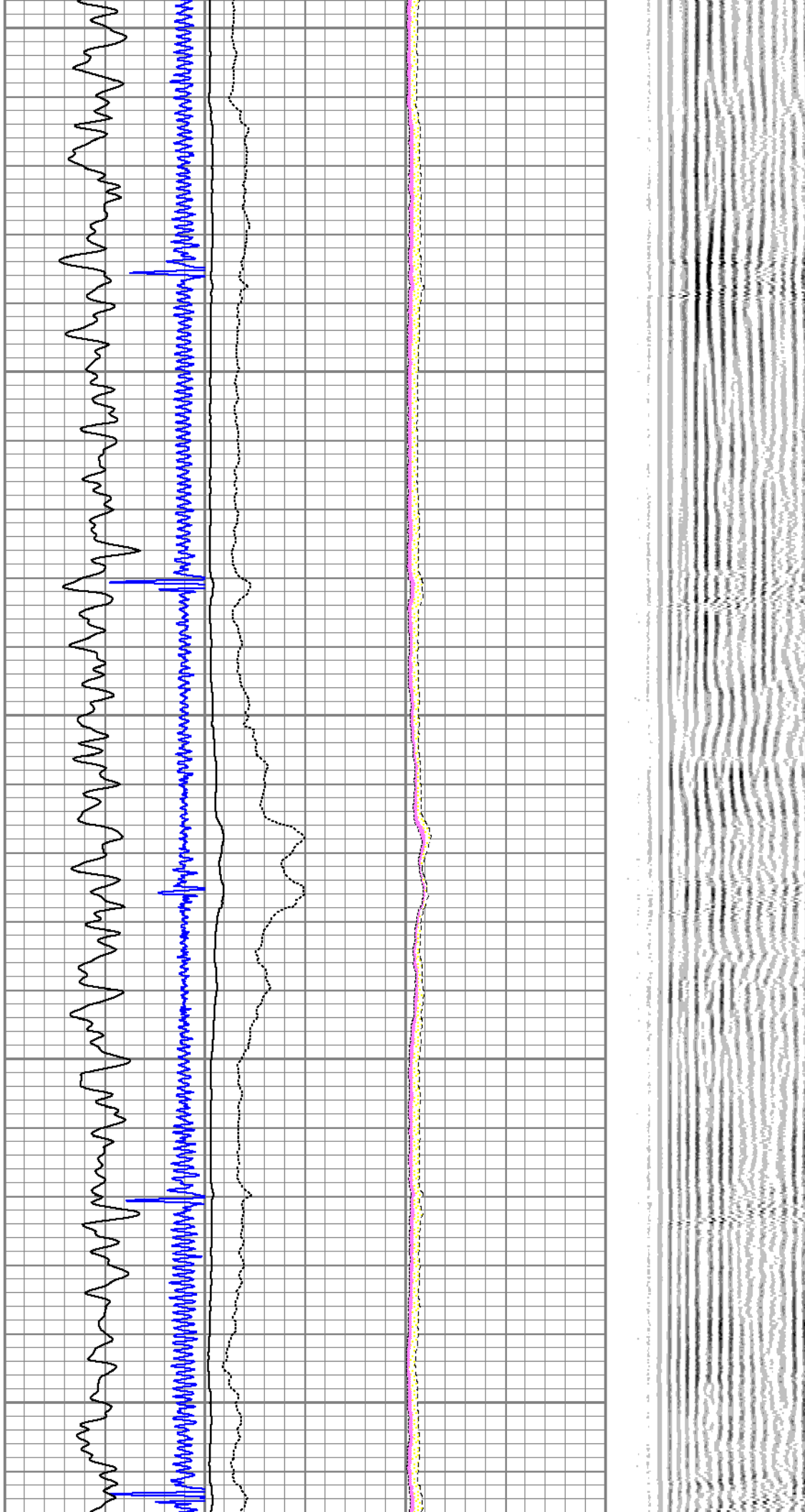
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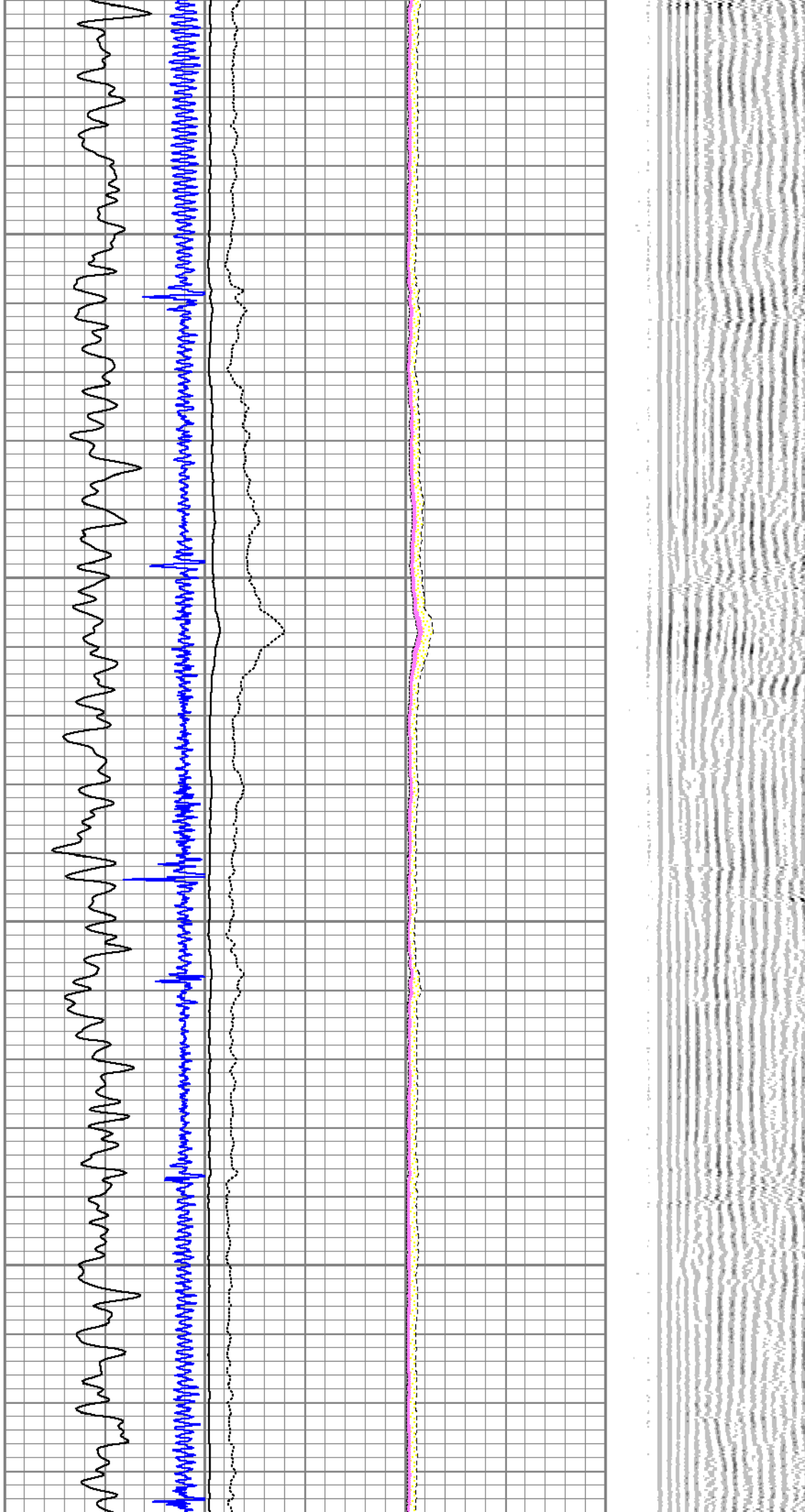
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3200



3300

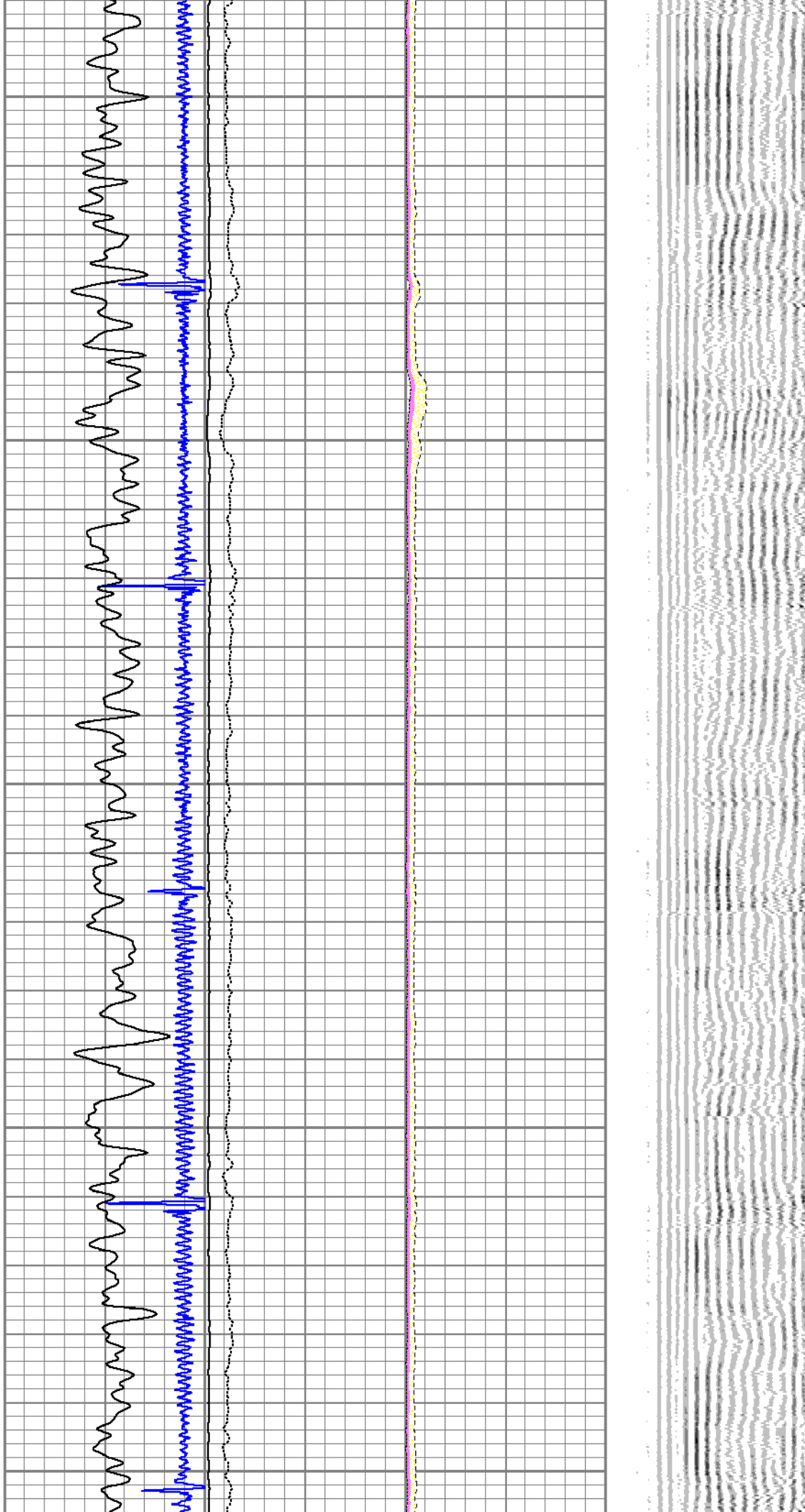
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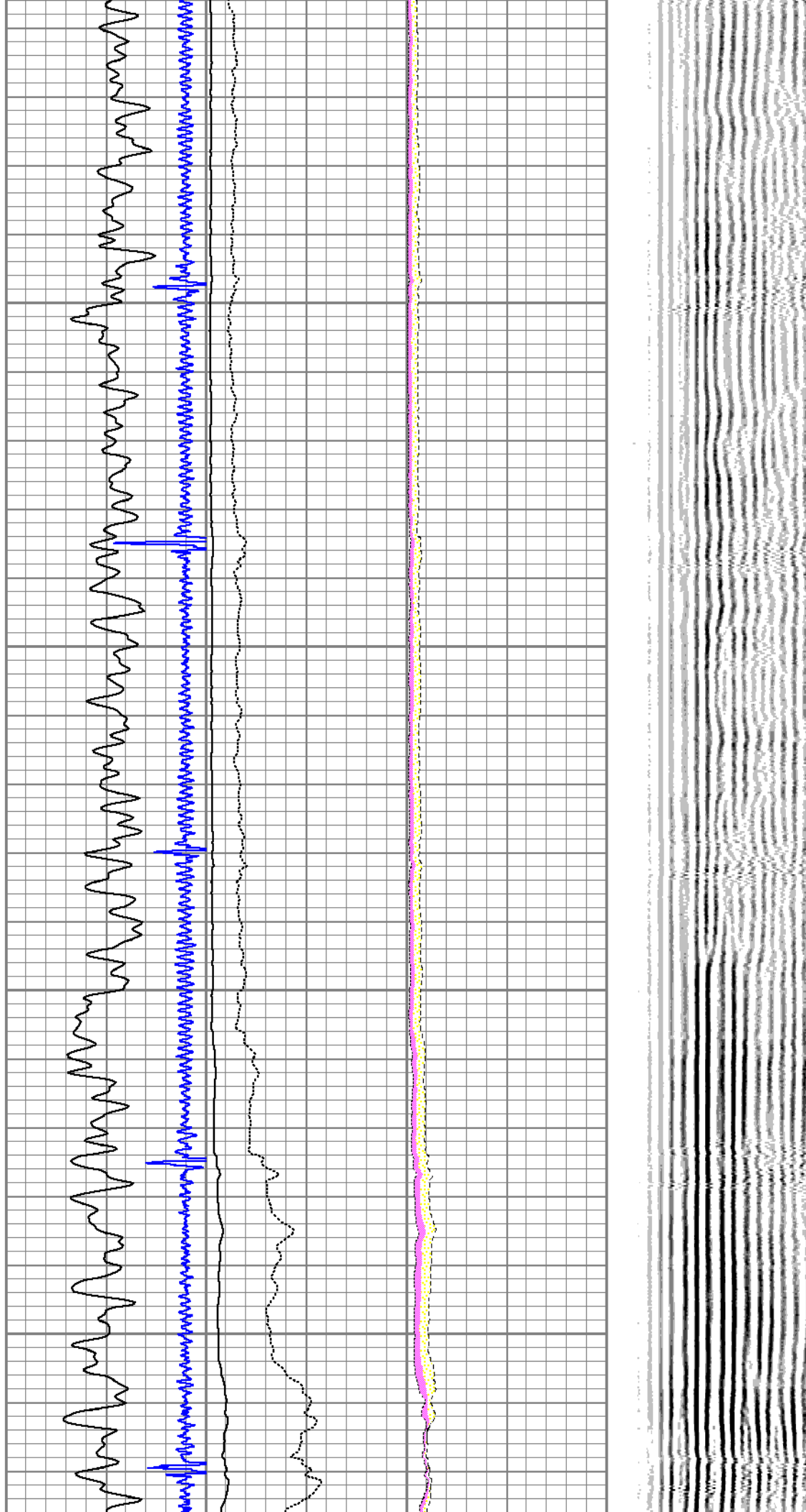
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3600

3700

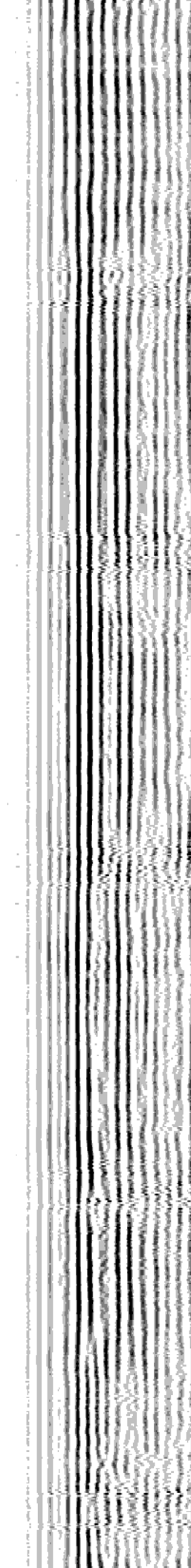
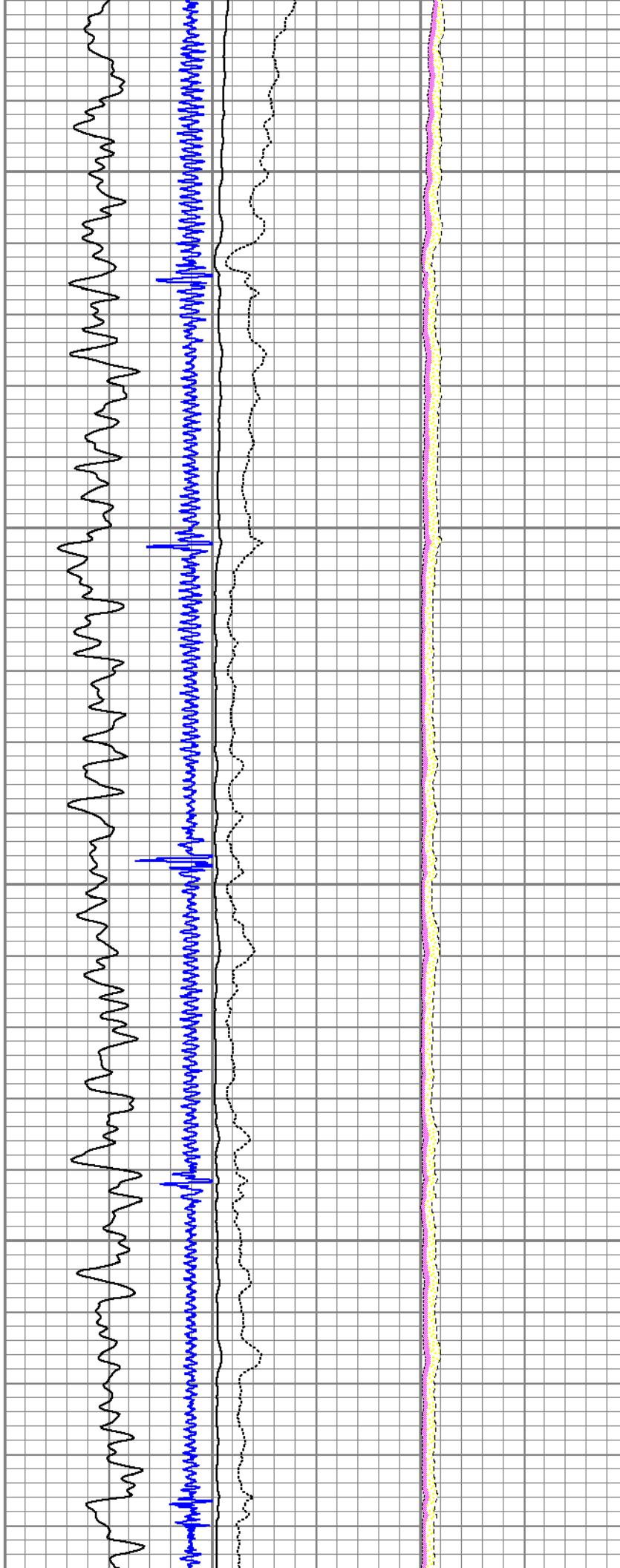


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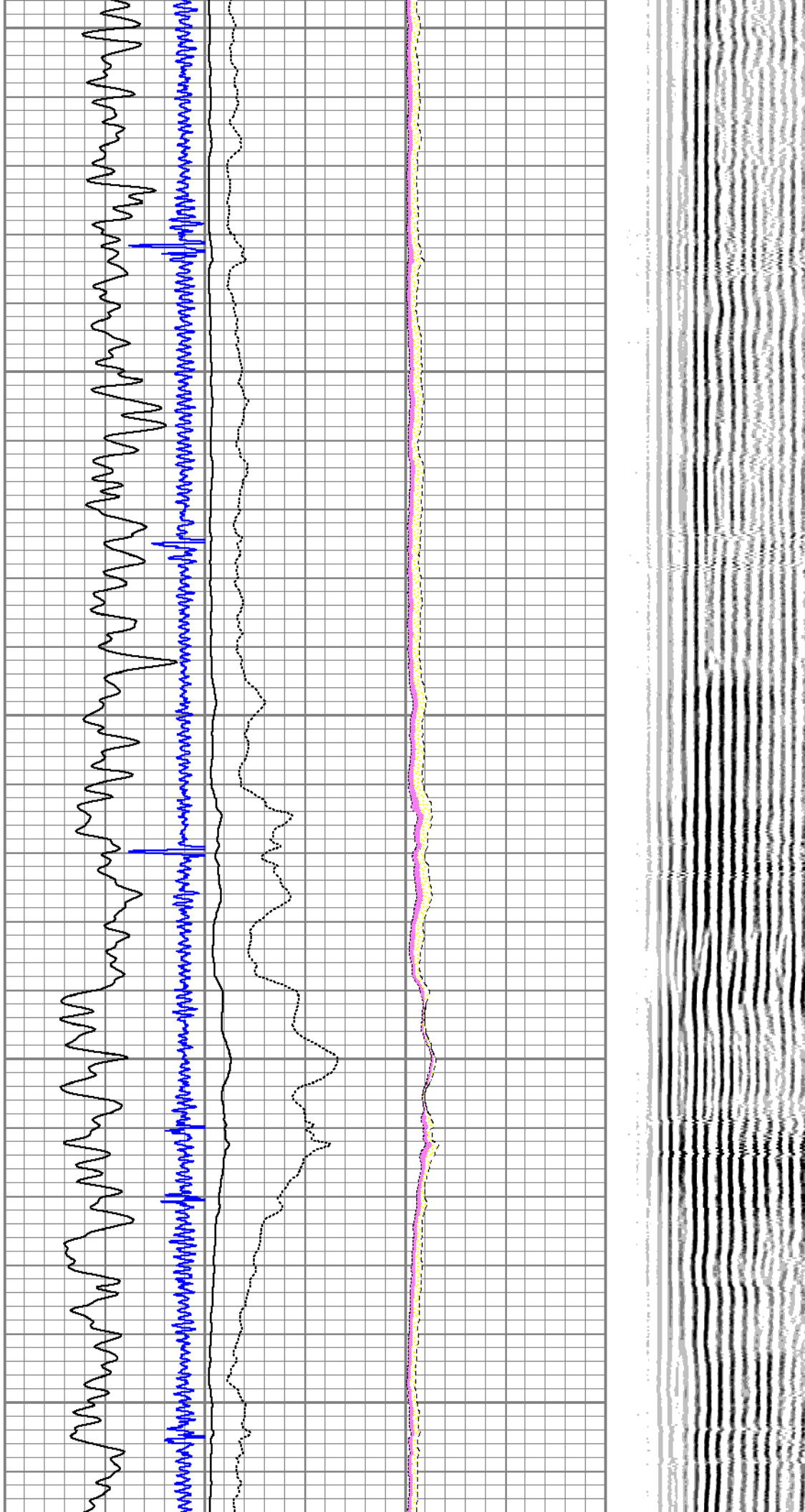
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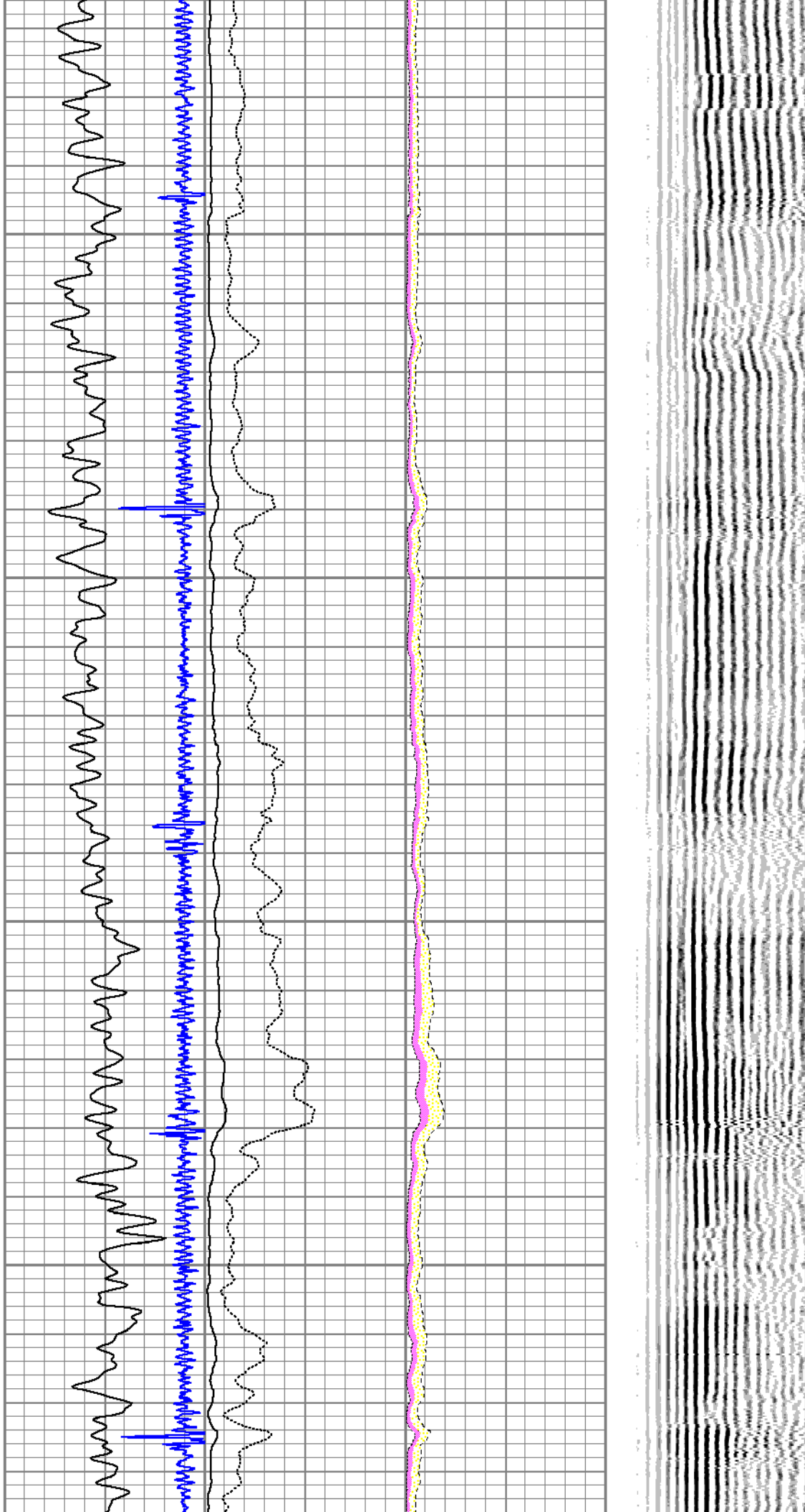
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4300



4400

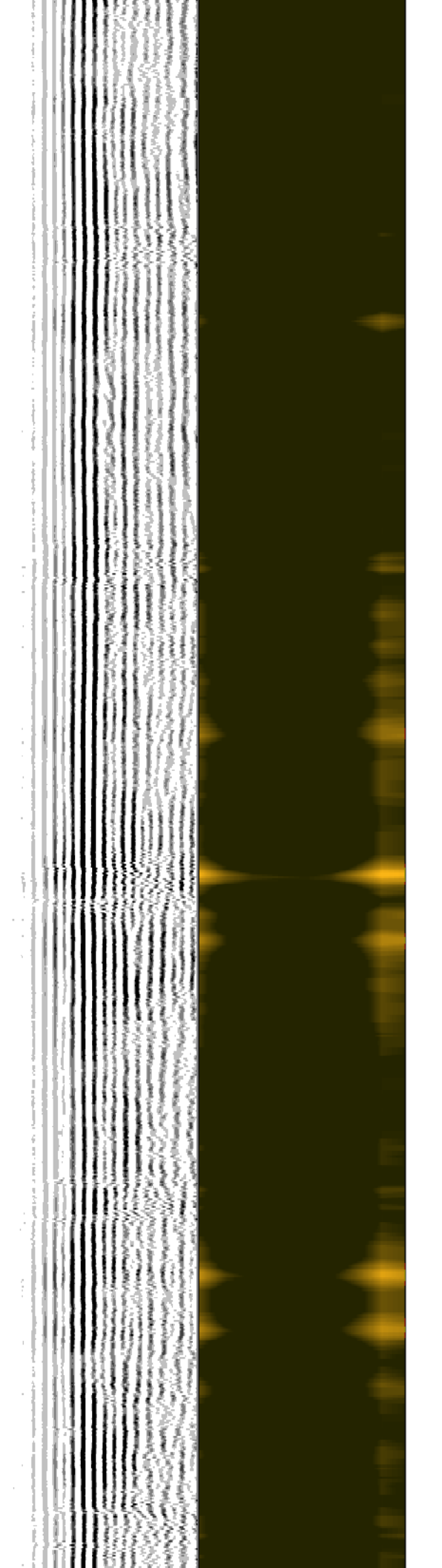
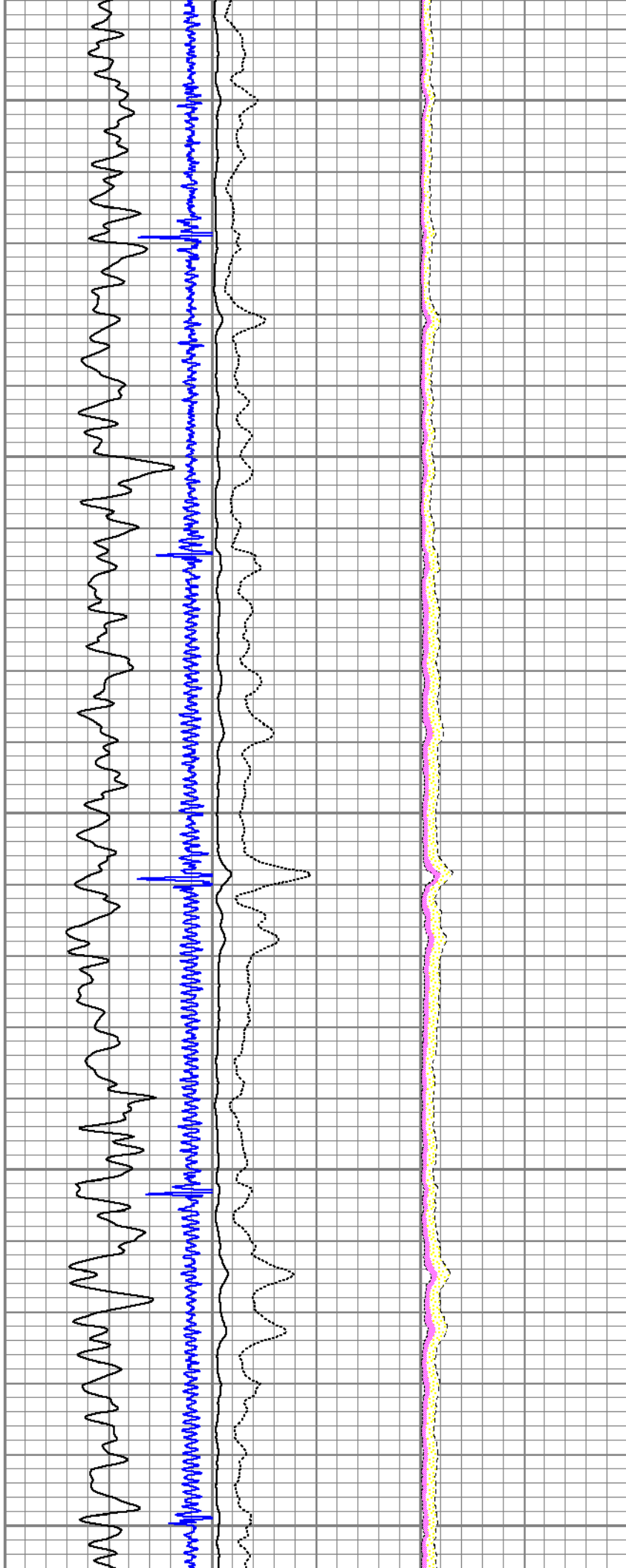
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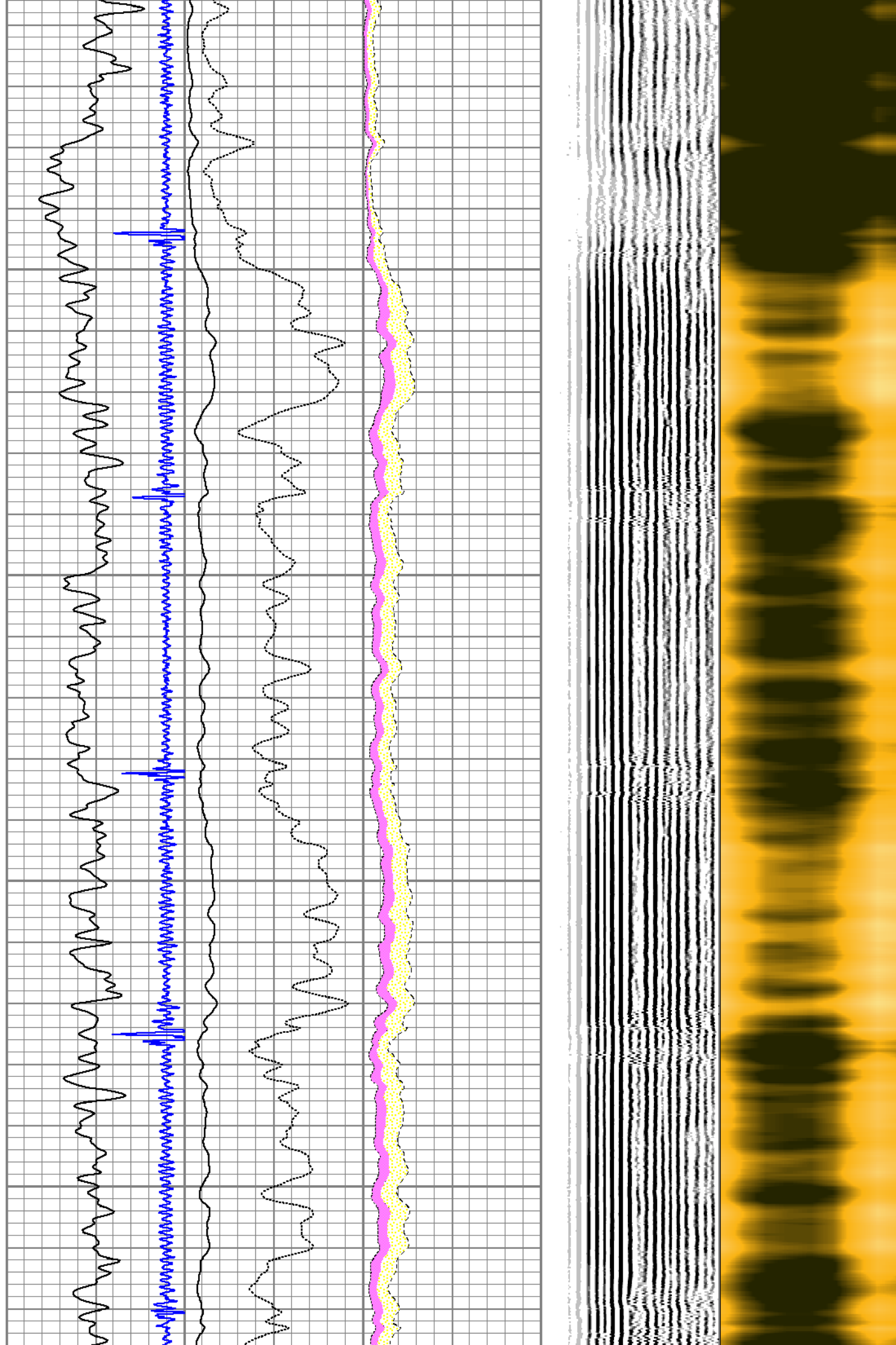
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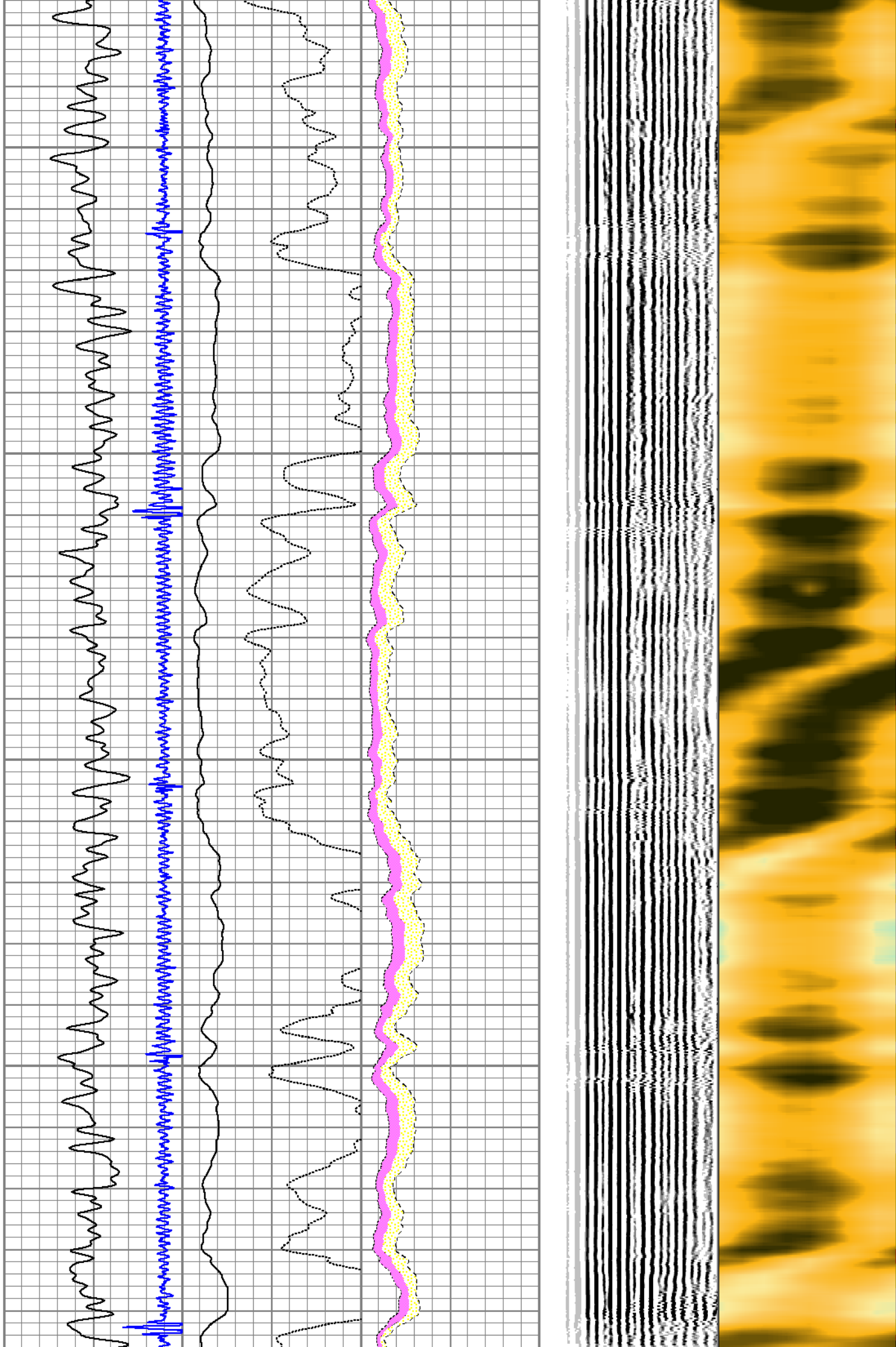


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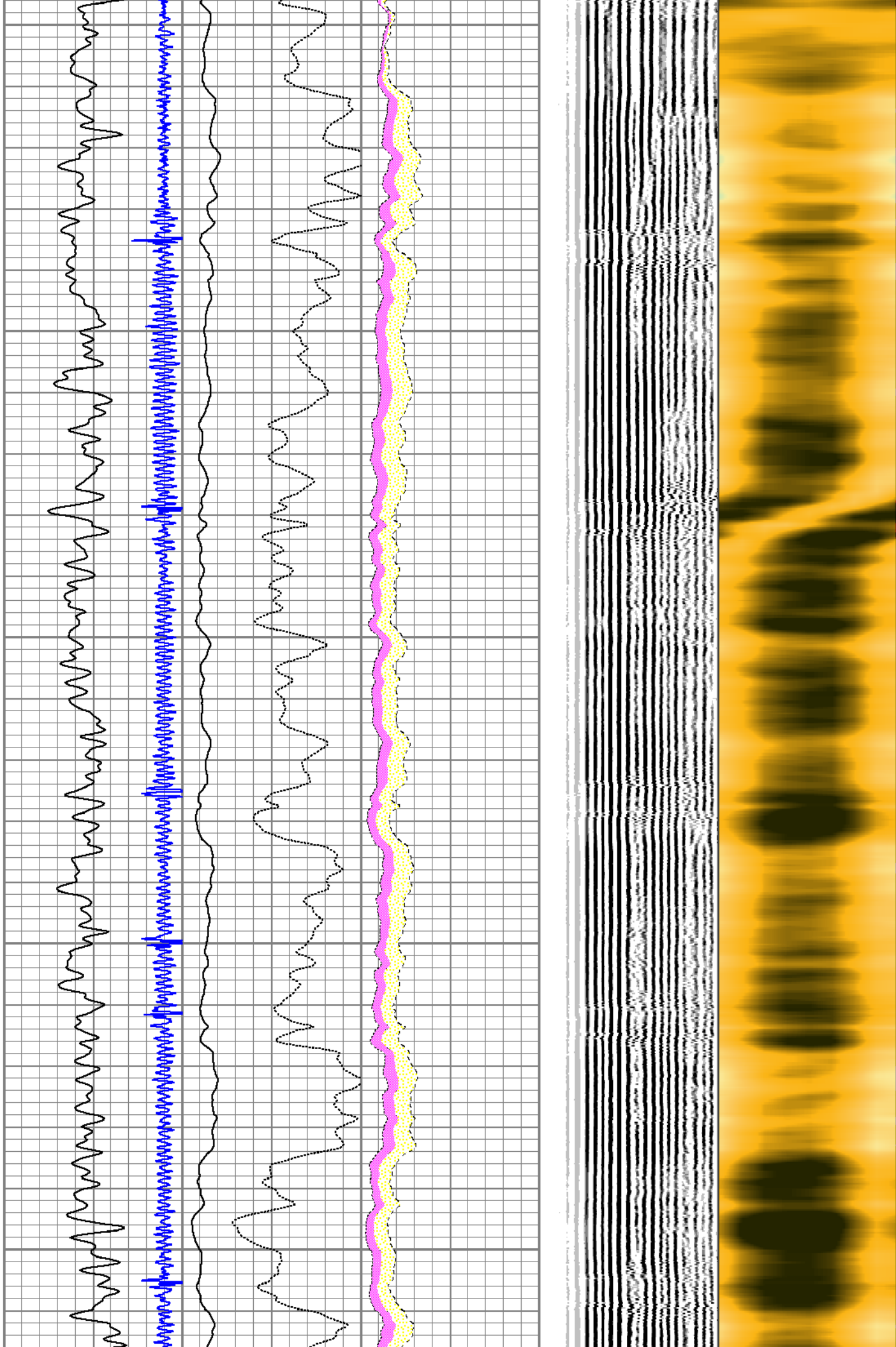
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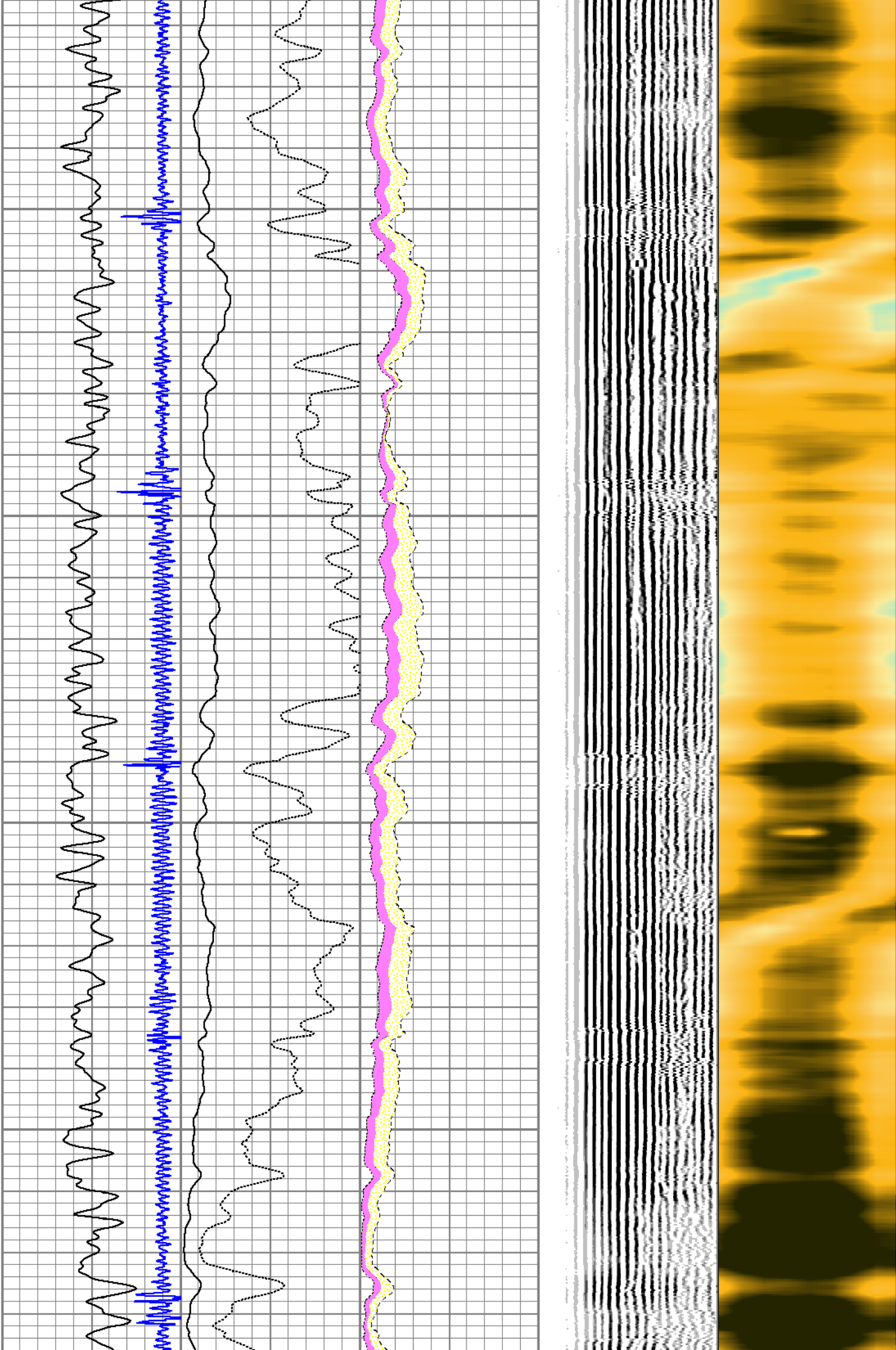
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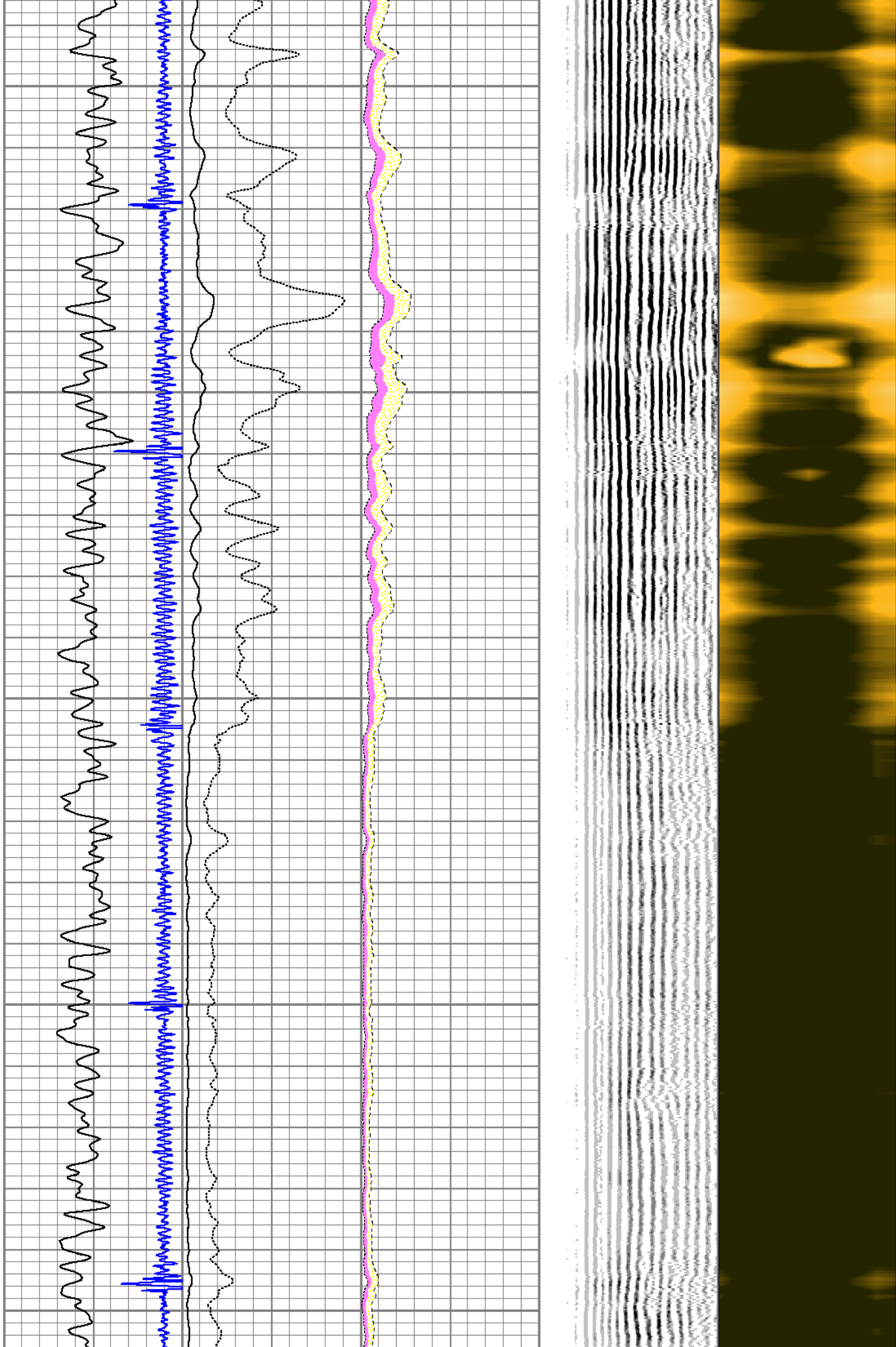
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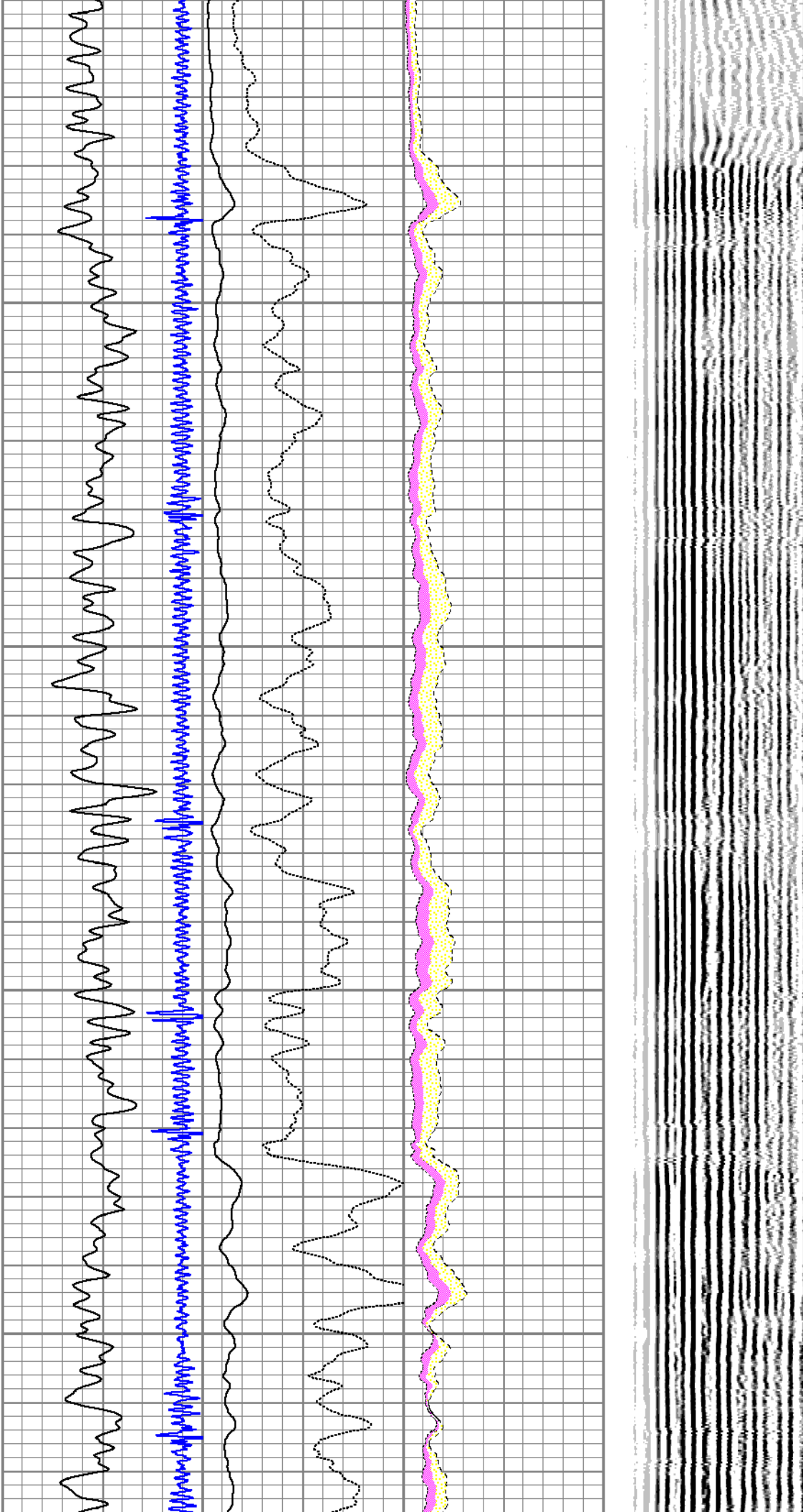
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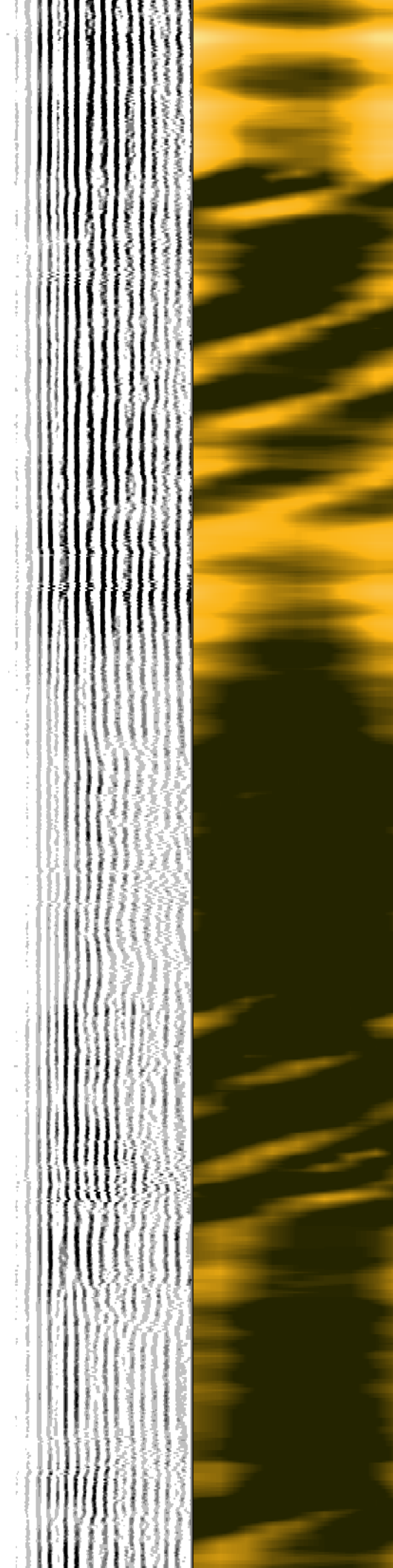
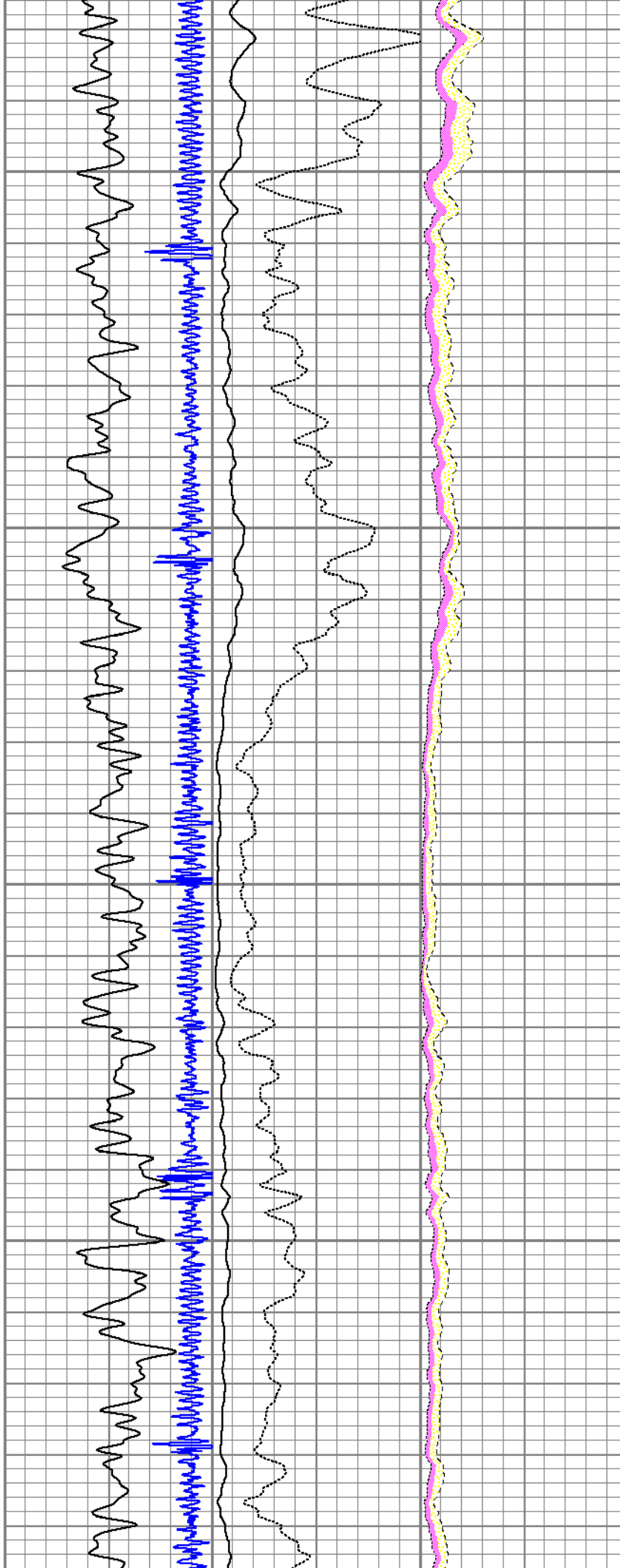
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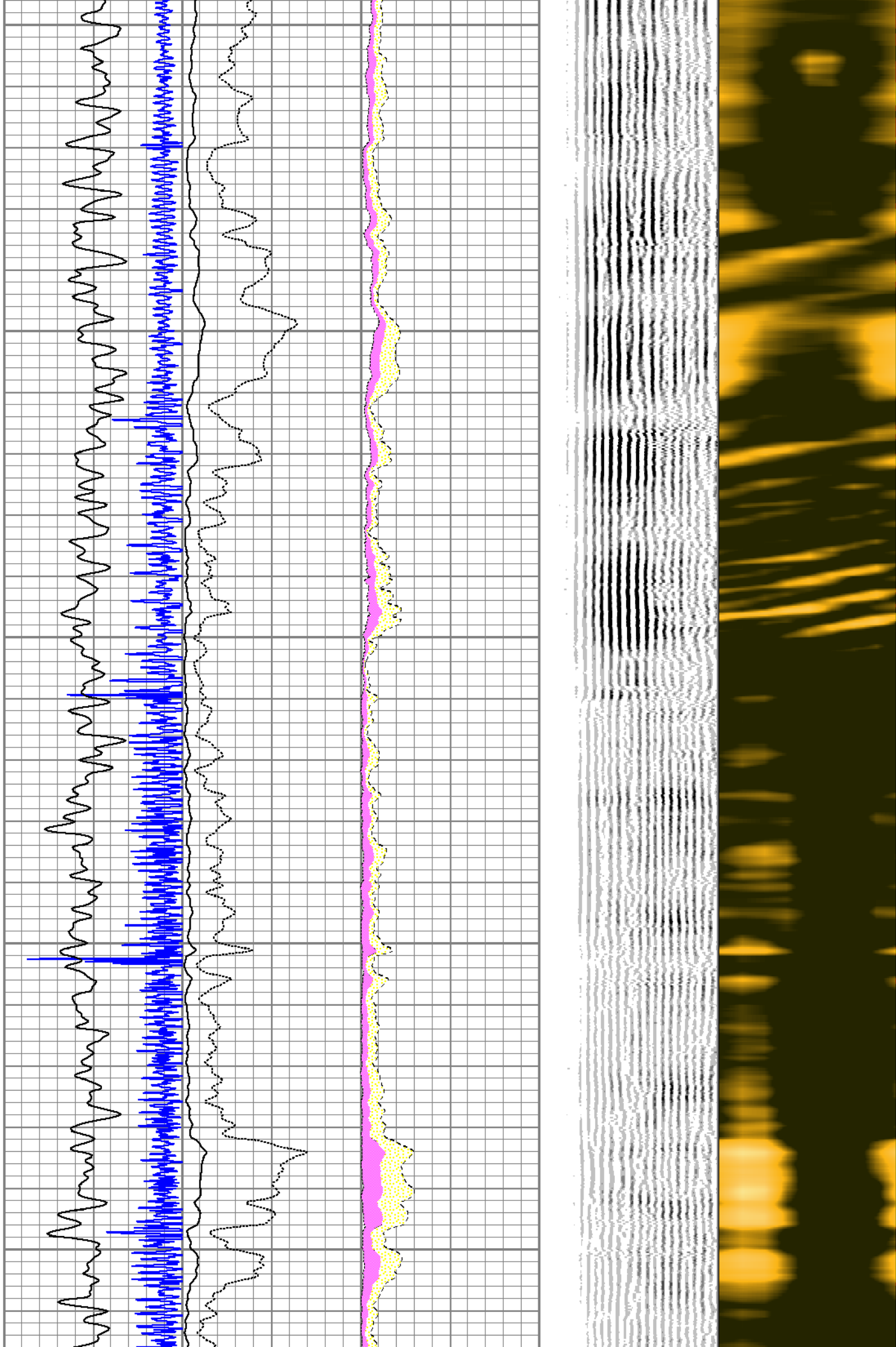
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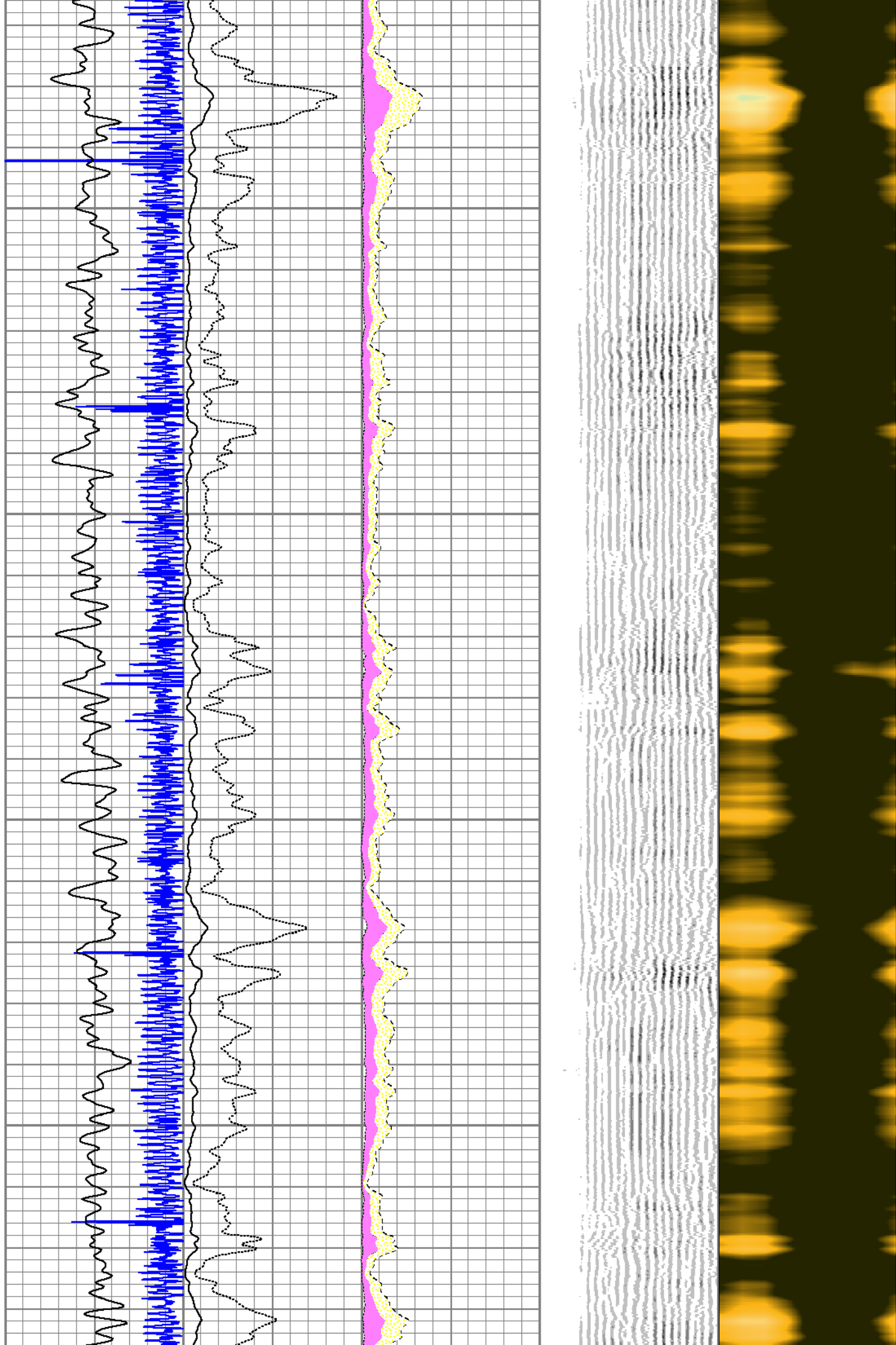
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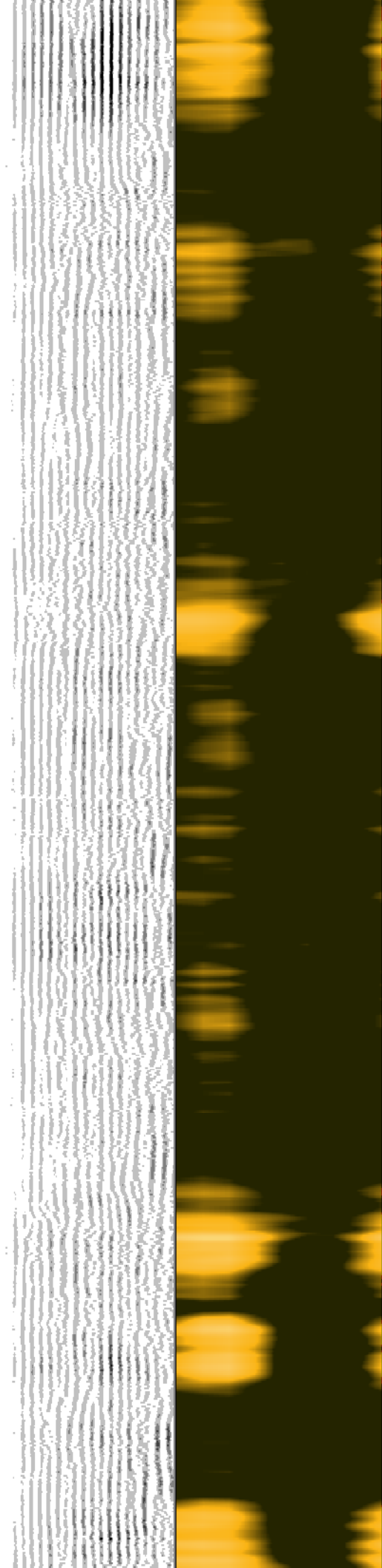
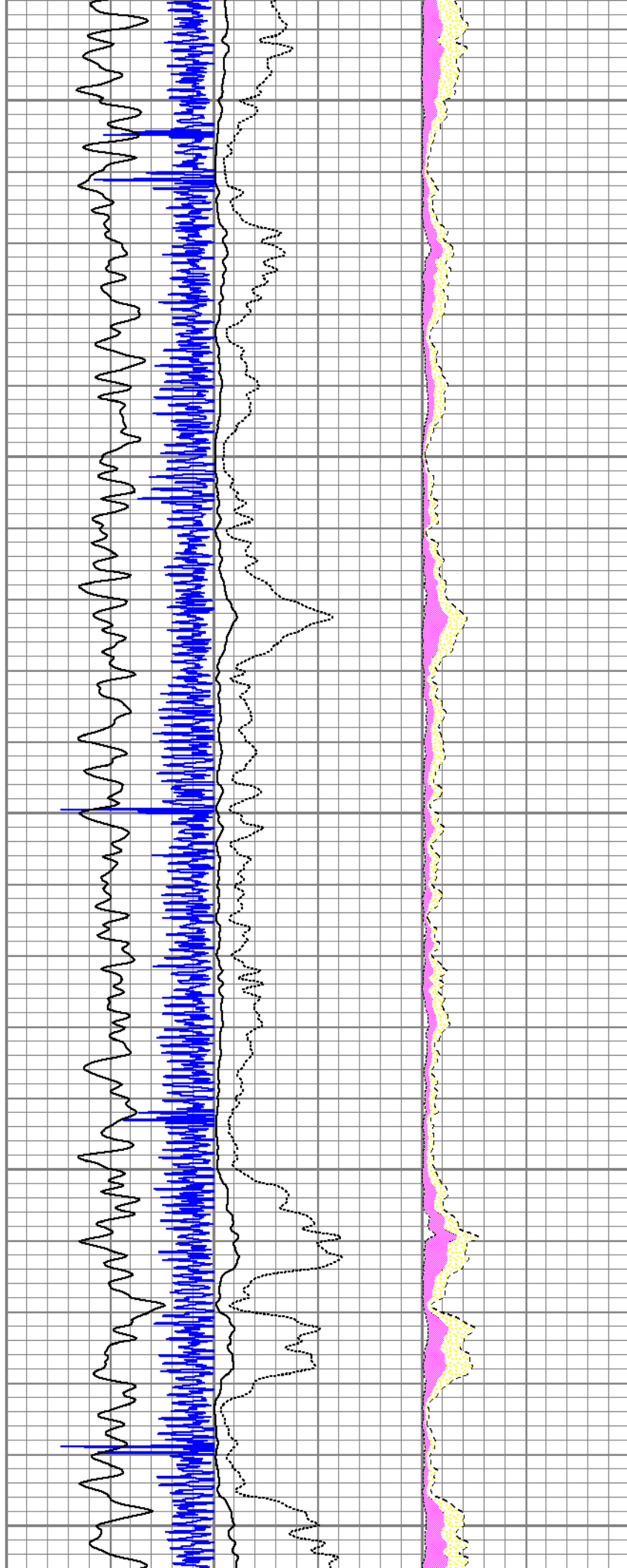
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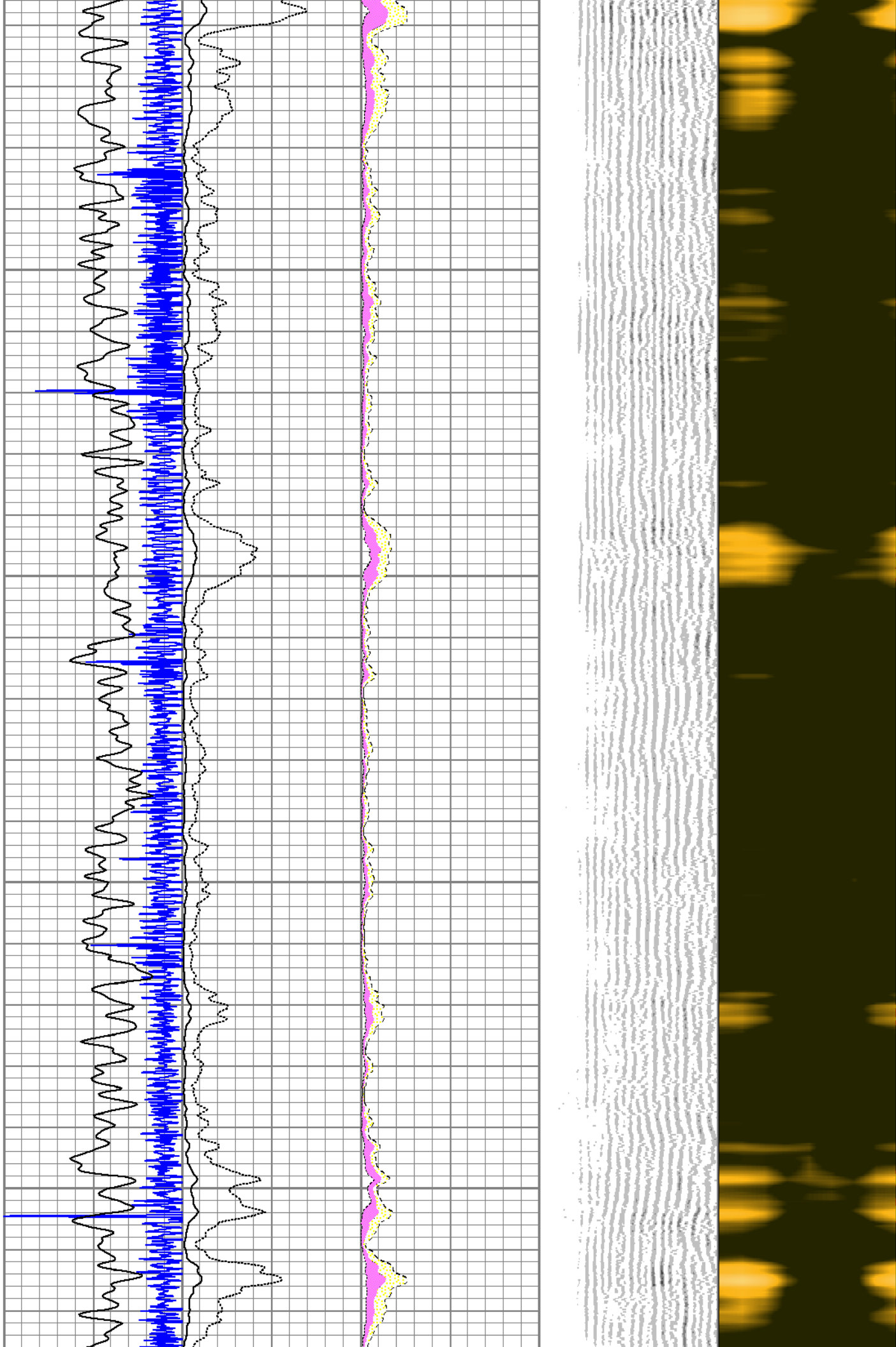
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7000



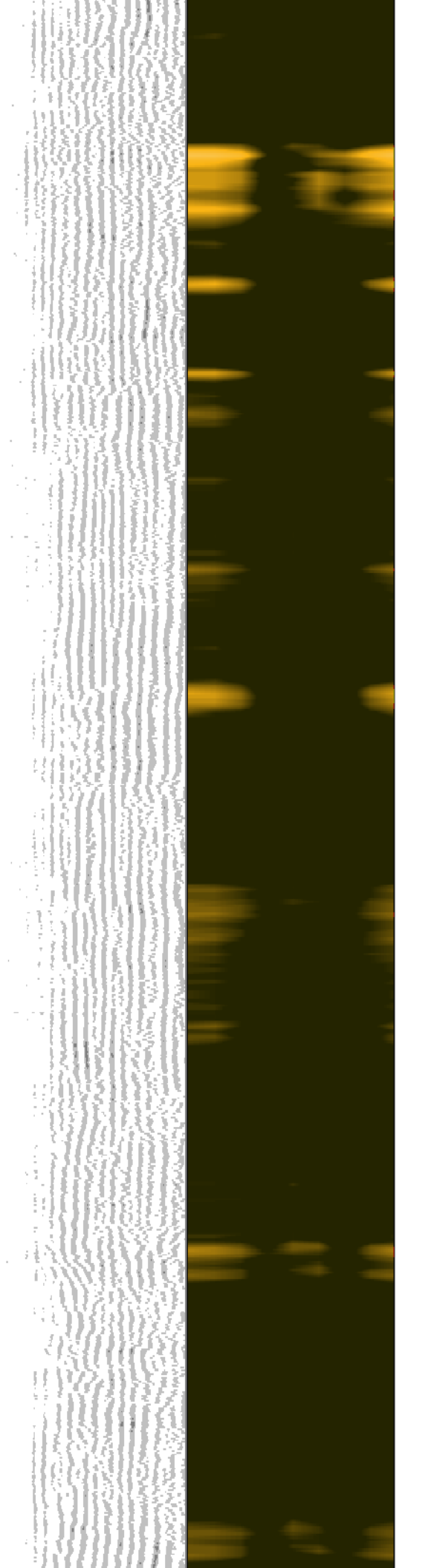
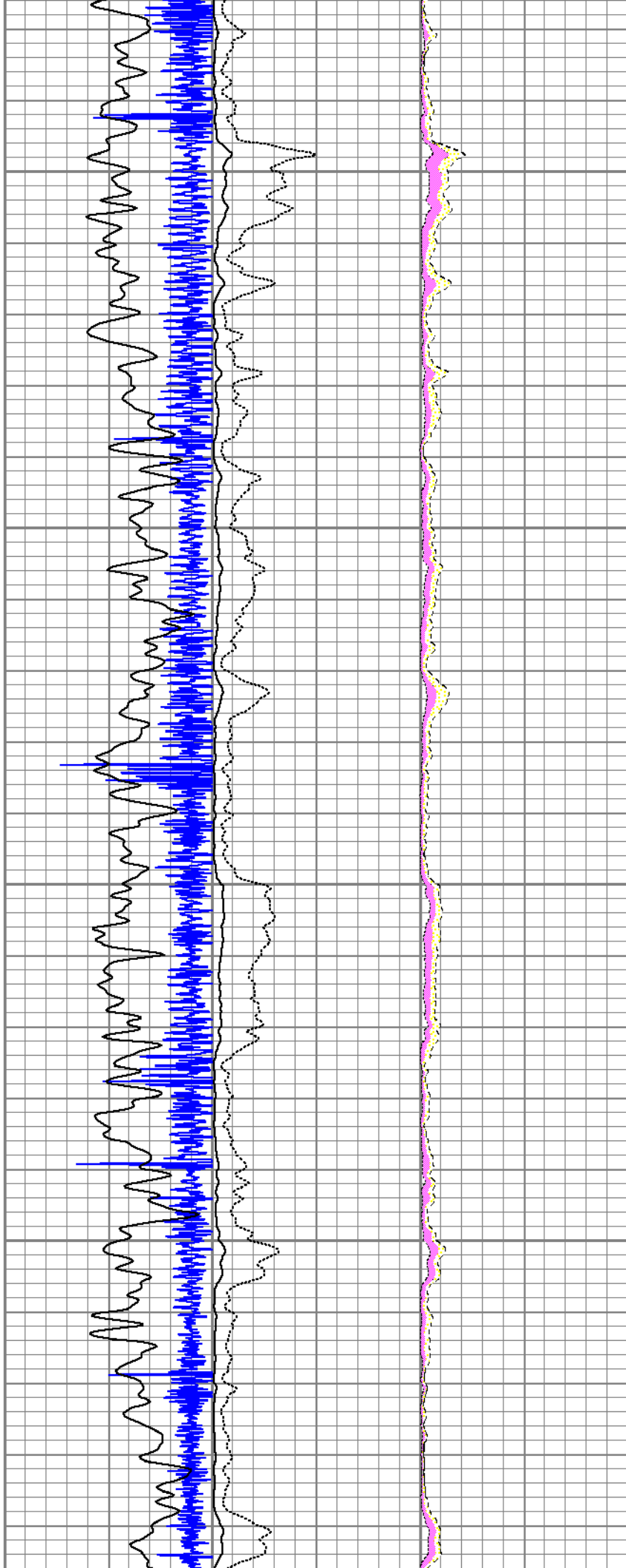
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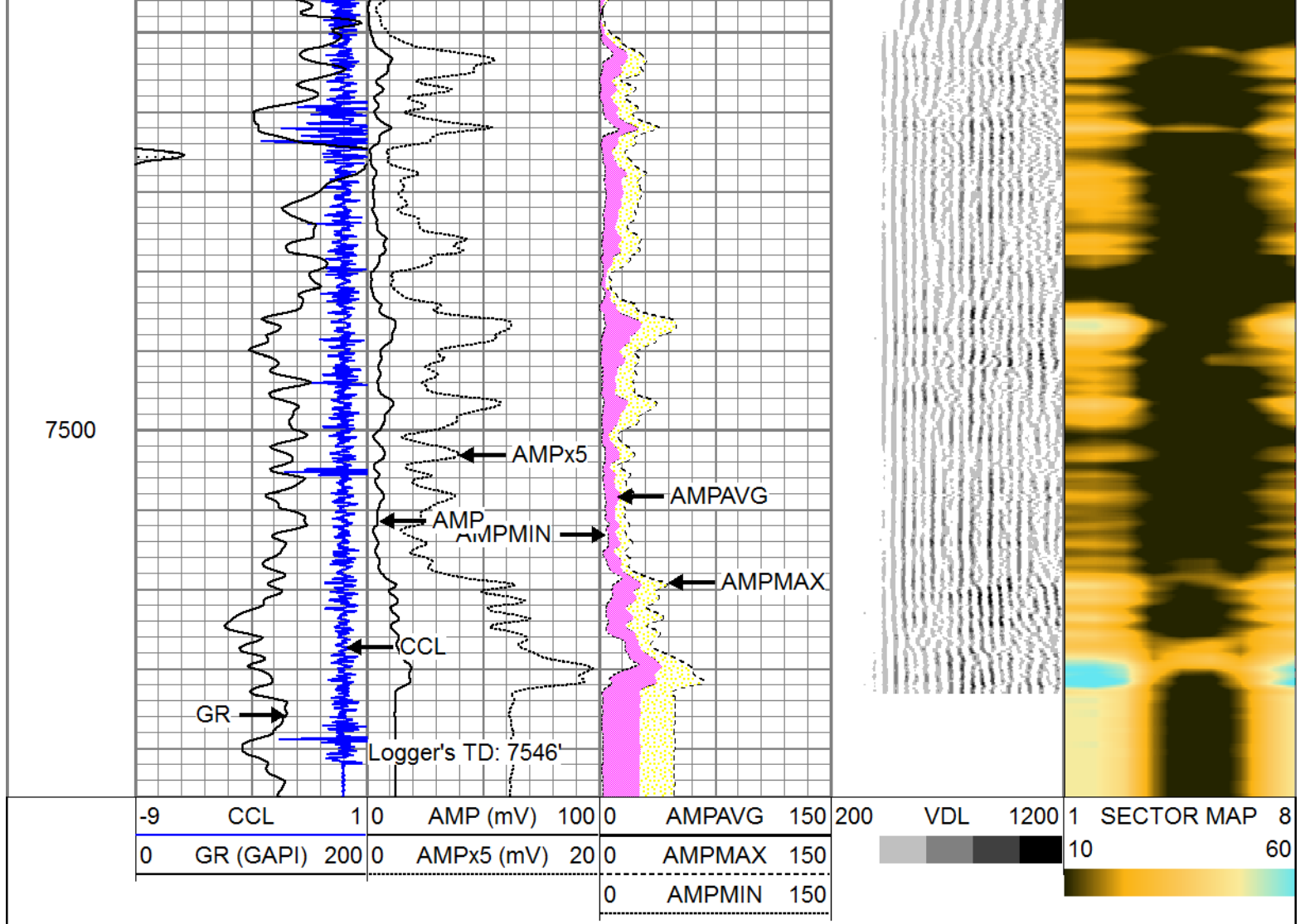
7200



7300

7400





Calibration Report

Database File: 13619.db
 Dataset Pathname: pass2
 Dataset Creation: Thu Aug 07 02:48:47 2014 by Log 0

Gamma Ray Calibration Report

Serial Number: 111205
 Tool Model: probe 2.75
 Performed: Wed Aug 06 20:05:21 2014

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
 Calibrator Reading: 1.0 cps

Sensitivity: 1.0000 GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number: Base
 Tool Model: Probe

Calibration Casing Diameter: 7.000 in
 Calibration Depth: 68.824 ft

Master Calibration, performed Wed Aug 06 20:07:47 2014:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.012	0.861	0.000	62.200	62.200	0.000
CAL	0.012	1.015				
5'	0.012	0.934	0.000	62.200	100.000	0.000
SUM						
S1	0.005	0.969	0.000	100.000	100.000	0.000
S2	0.012	0.953	0.000	100.000	100.000	0.000
S3	0.012	0.843	0.000	100.000	100.000	0.000
S4	0.012	0.764	0.000	100.000	100.000	0.000
S5	0.012	0.747	0.000	100.000	100.000	0.000
S6	0.012	0.760	0.000	100.000	100.000	0.000
S7	0.012	0.821	0.000	100.000	100.000	0.000
S8	0.012	0.887	0.000	100.000	100.000	0.000

Internal Reference Calibration, performed Tue Nov 21 12:42:07 2006:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.012	1.015	1.000	0.000

Air Zero Calibration, performed Thu Apr 24 09:23:40 2008:

	Raw (v)		Calibrated (v)		Results	
	Zero		Zero		Offset	
3'	0.000		0.000		0.000	
5'	0.000		0.000		0.000	
SUM						
S1	0.000		0.000		0.000	
S2	0.000		0.000		0.000	
S3	0.000		0.000		0.000	
S4	0.000		0.000		0.000	
S5	0.000		0.000		0.000	
S6	0.000		0.000		0.000	
S7	0.000		0.000		0.000	
S8	0.000		0.000		0.000	