



RADIAL BOND LOG
VDL/SECTOR MAP
GAMMA/CCL

Pioneer Energy Services

Company ANADARKO PETROLEUM CO.
Well DOUTHIT 9C-27HZ
Field WATTENBERG
County WELD State COLORADO

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County WELD
State COLORADO

Location: API # : 05-123-39585
1688' FSL & 416' FEL
NESE
SEC 27 TWP 3N RGE 68W
Permanent Datum GL Elevation 4926'
Log Measured From KB
Drilling Measured From KB 16'

Elevation

K.B. 4942'
D.F. 4941'
G.L. 4926'

Date

23-NOV-2014

Run Number ONE
Depth Driller UNK
Depth Logger 6770'
Bottom Logged Interval 6770'
Top Log Interval SURFACE
Open Hole Size 8-7/8"
Type Fluid WATER
Density / Viscosity 8.33 PPG
Max. Recorded Temp. UNK
Estimated Cement Top 90'
Time Well Ready 13:00
Time Logger on Bottom 13:30
Equipment Number 75
Location FORT MORGAN
Recorded By TIM REESE
Witnessed By TREVOR D.

Borehole Record
Run Number Bit From To Size Weight From To

Casing Record
Surface String 9-5/8" 36 # Top SURFACE Bottom 1249'
Prot. String 7" 26 SURFACE 7557'
Production String 4-1/2" 11.6# SURFACE 6698' 12953'

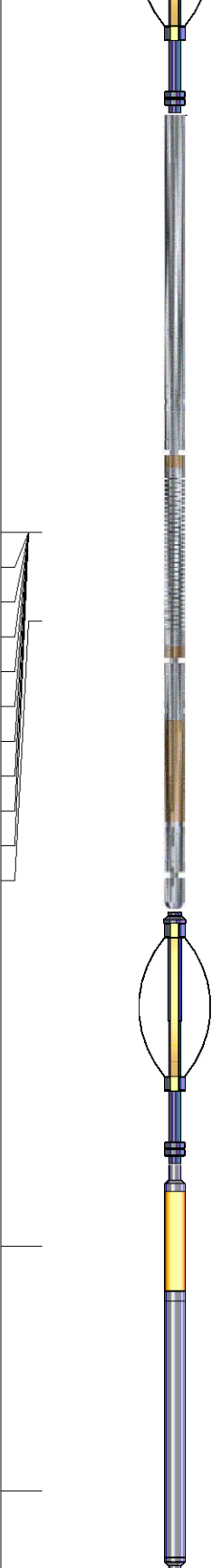
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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on 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

WELL LOGGED UNDER 2800 PSI

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			PTS275	2.83	2.75	

WVF3FT	11.63		RBT-Probe275 (070132) Probe Radial Bond Digital	8.92	2.75	100.00		
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							
WVF5FT	10.63							
			PTS275		2.83	2.75		
CCL	3.63							
			GR_CCL-Probe (110249) Probe Gamma CCL		4.54	2.75	100.00	
GR	0.90							
Dataset: douthit 9c-27hz.db: field/well/run1/pass4 Total Length: 19.13 ft Total Weight: 200.00 lb O.D. 2.75 in								

		Calibration Report
Database File:	douthit 9c-27hz.db	
Dataset Pathname:	pass2	
Dataset Creation:	Sun Nov 23 12:49:47 2014 by Log 7.0 B1	

Gamma Ray Calibration Report

Serial Number: 110249
 Tool Model: Probe
 Performed: Sun Sep 28 17:05:25 2014

 Calibrator Value: 1.0 GAPI

 Background Reading: 0.0 cps
 Calibrator Reading: 1.0 cps

 Sensitivity: 1.0300 GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number: 070132
 Tool Model: Probe275

 Calibration Casing Diameter: 7.000 in
 Calibration Depth: 223.327 ft

Master Calibration, performed Sun Nov 23 12:49:41 2014:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.014	0.531	1.000	62.000	117.845	-0.605
CAL	0.013	0.970				
5'	0.013	0.599	1.000	62.000	104.137	-0.381
SUM						
S1	0.013	0.582	0.000	100.000	175.960	-2.331
S2	0.013	0.532	0.000	100.000	192.975	-2.579
S3	0.013	0.474	0.000	100.000	217.064	-2.893
S4	0.013	0.449	0.000	100.000	229.571	-3.091
S5	0.014	0.461	0.000	100.000	223.593	-3.076
S6	0.014	0.507	0.000	100.000	202.567	-2.792
S7	0.014	0.571	0.000	100.000	179.362	-2.435
S8	0.013	0.588	0.000	100.000	173.795	-2.262

Internal Reference Calibration, performed Wed Dec 31 17:00:00 1969:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.013	0.970	1.000	0.000

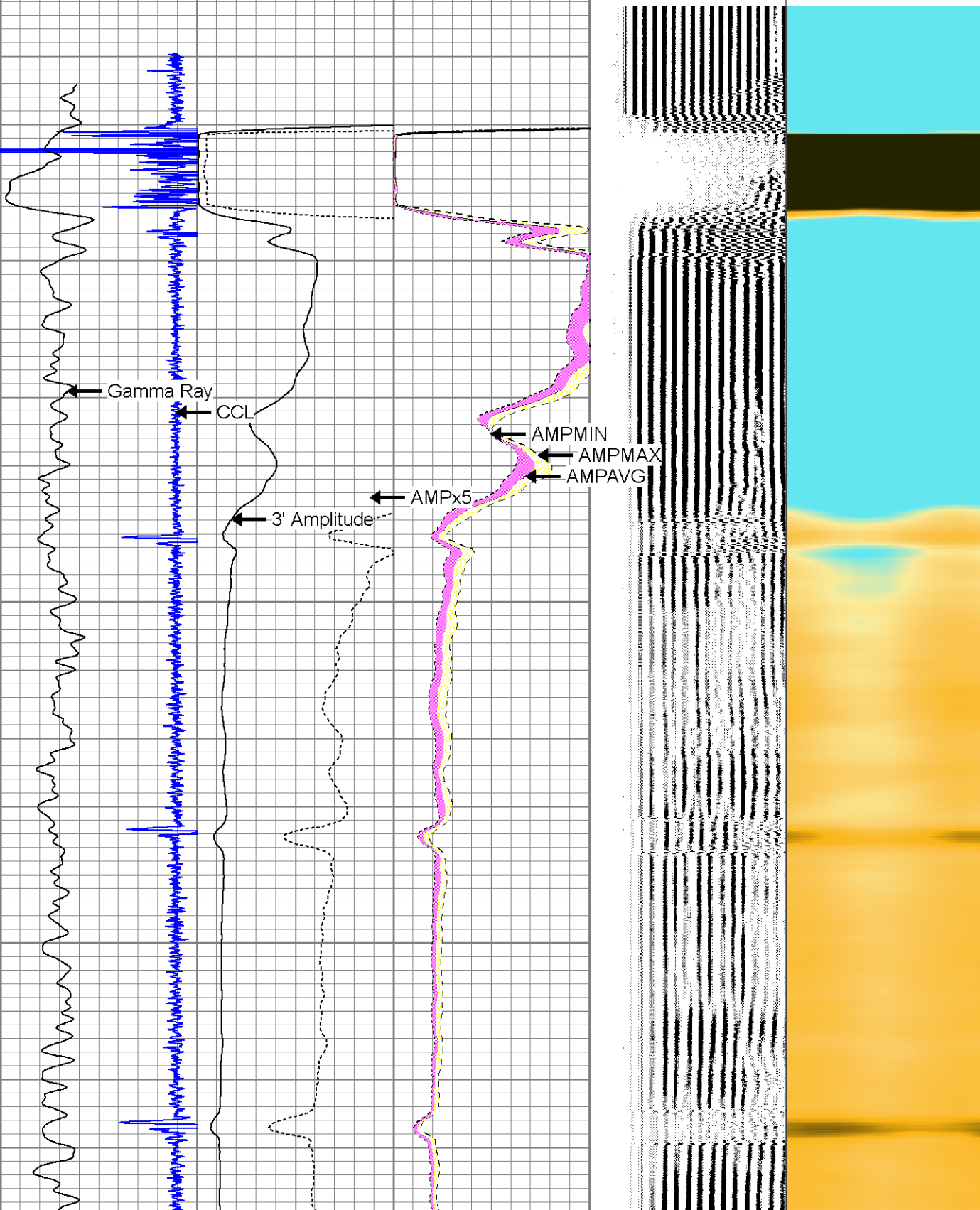
Air Zero Calibration, performed Wed Dec 31 17:00:00 1969:

	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

Database File: douthit 9c-27hz.db
Dataset Pathname: pass4
Presentation Format: scbl02
Dataset Creation: Sun Nov 23 14:45:19 2014 by Calc 7.0 B1
Charted by: Depth in Feet scaled 1:240

-9	CCL	1	3' Amplitude	0	AMPAVG	150	200	VDL	1200	1	SECTOR MAP	8
	Gamma Ray	0	(mV)	100	0	AMPMAX	150			10		60
0	(GAPI)	200	0	AMPx5 (mV)	20	0	AMPMIN	150				

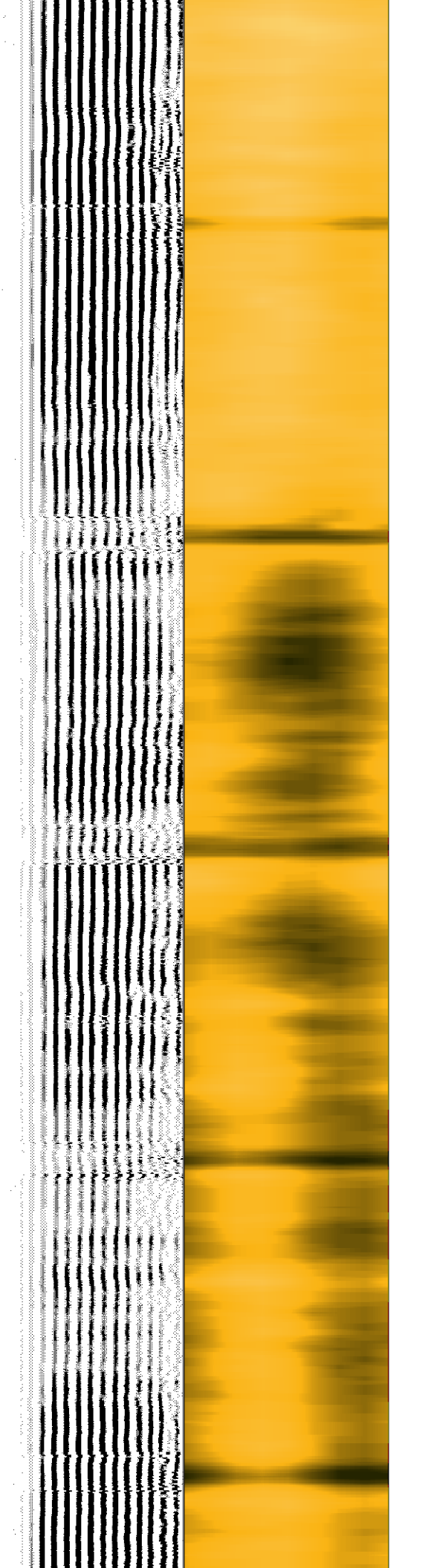
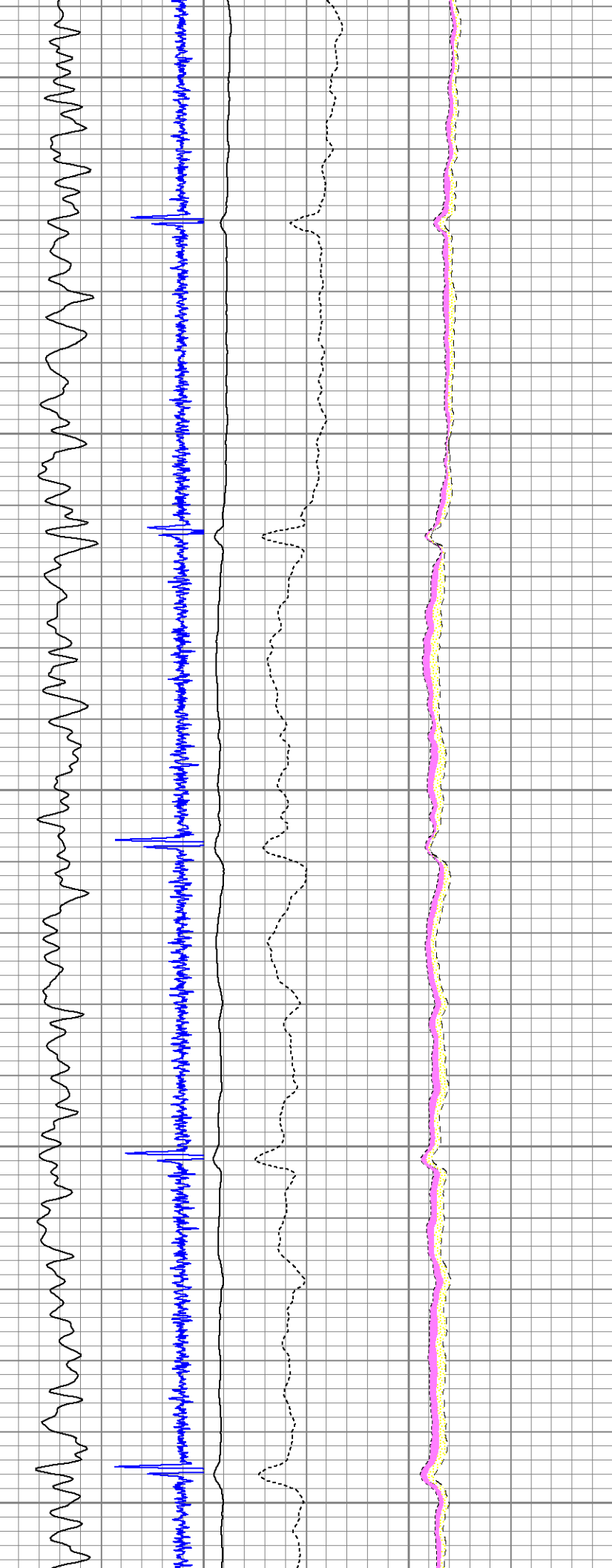
100



200

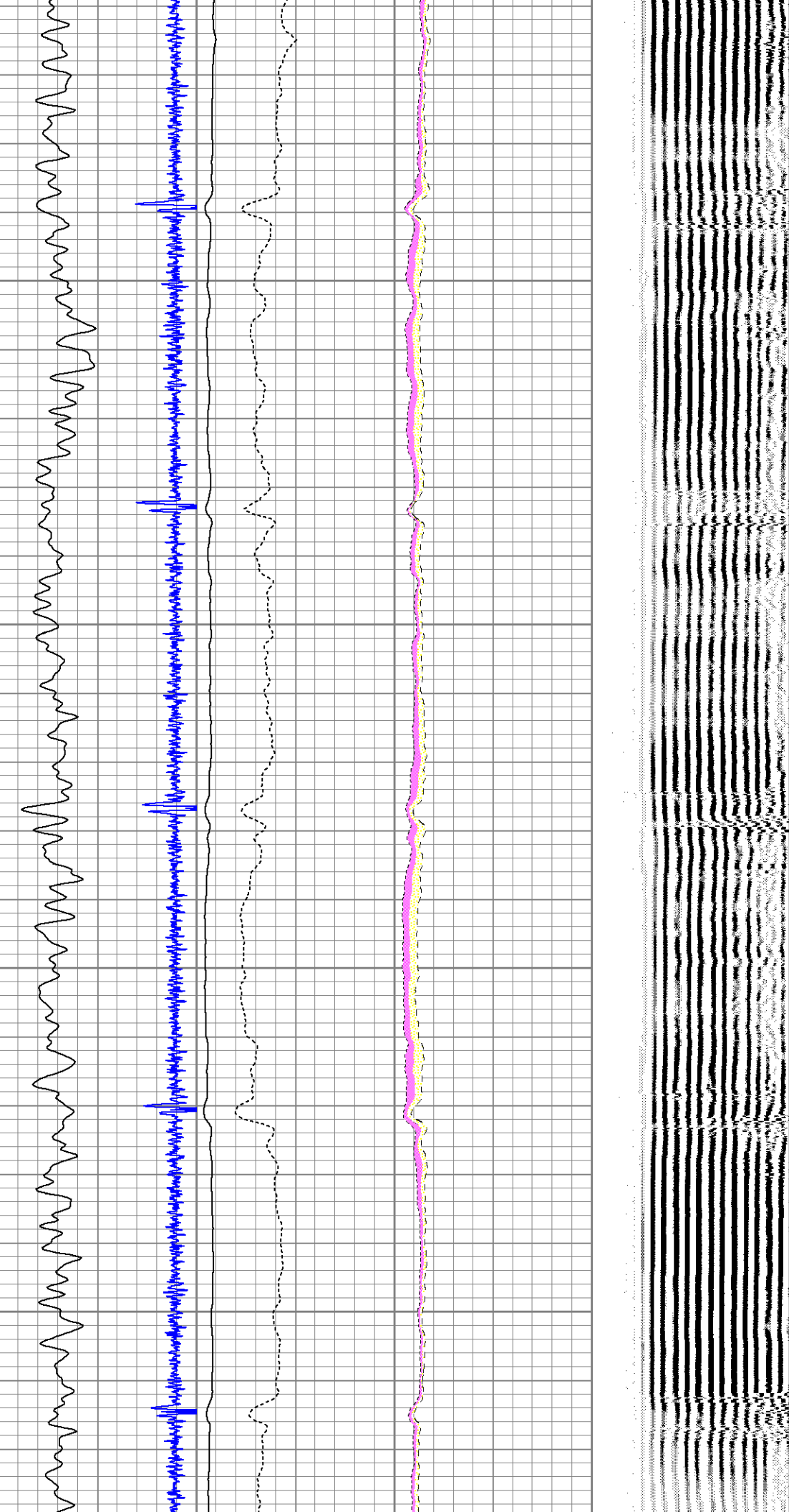
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400



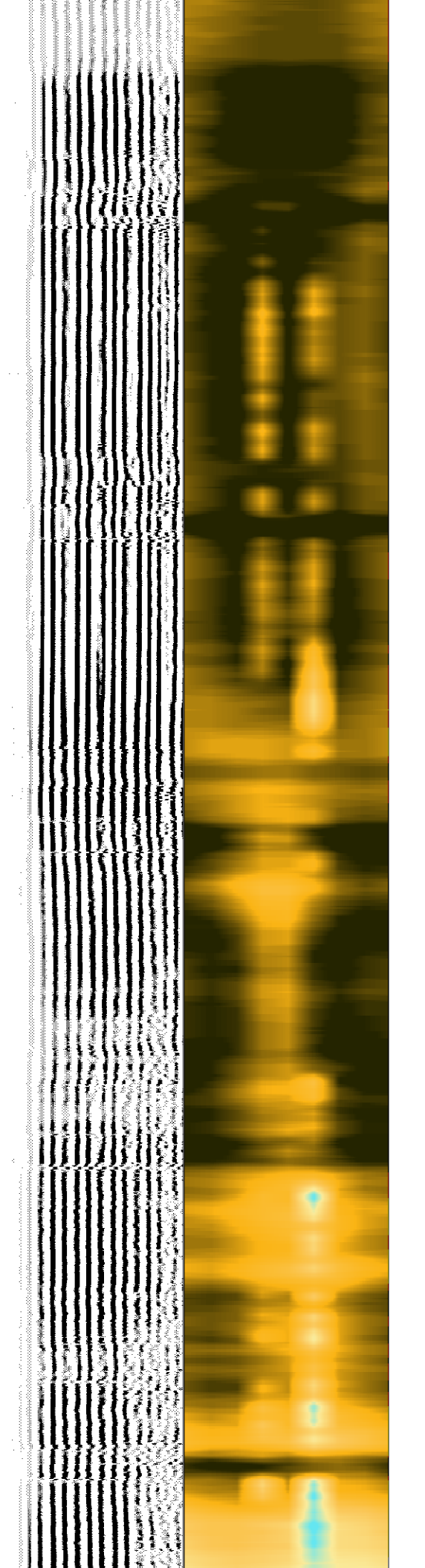
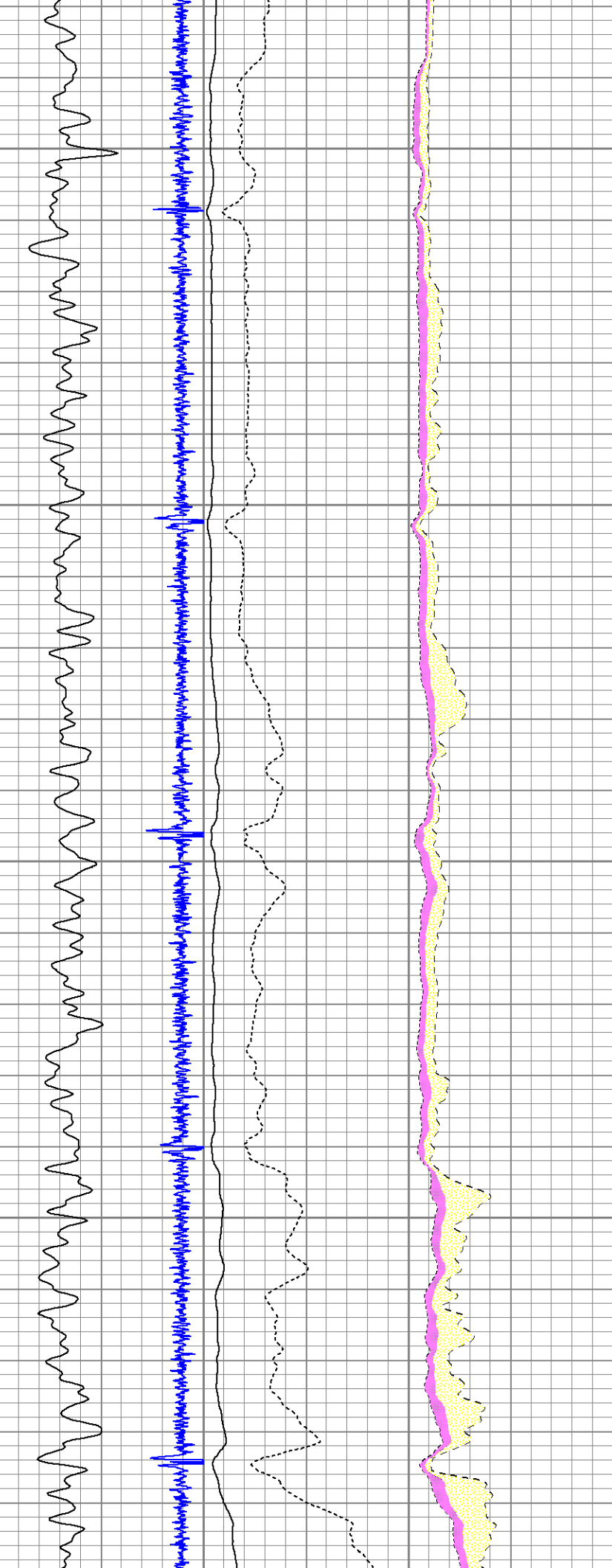
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600



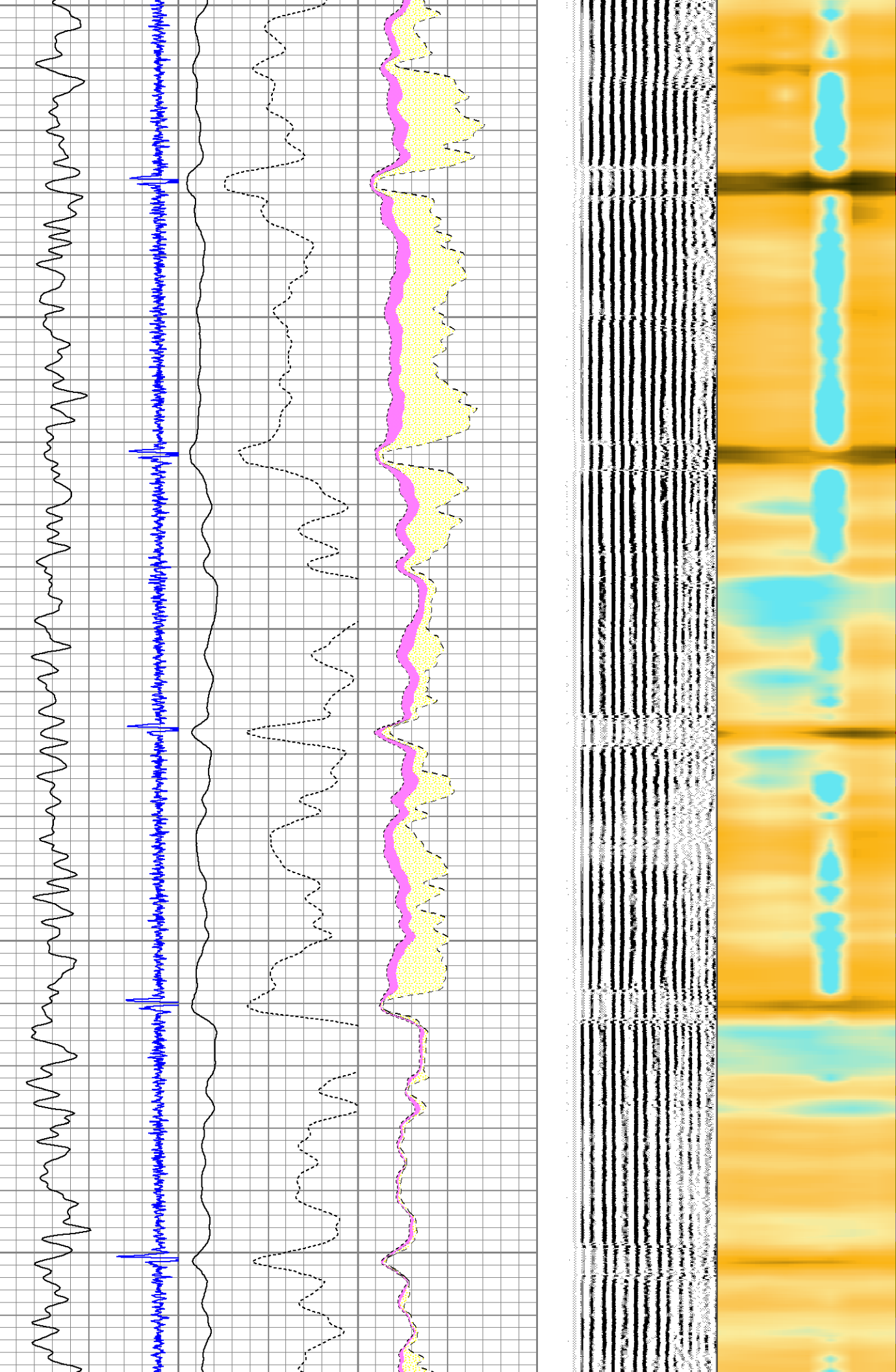
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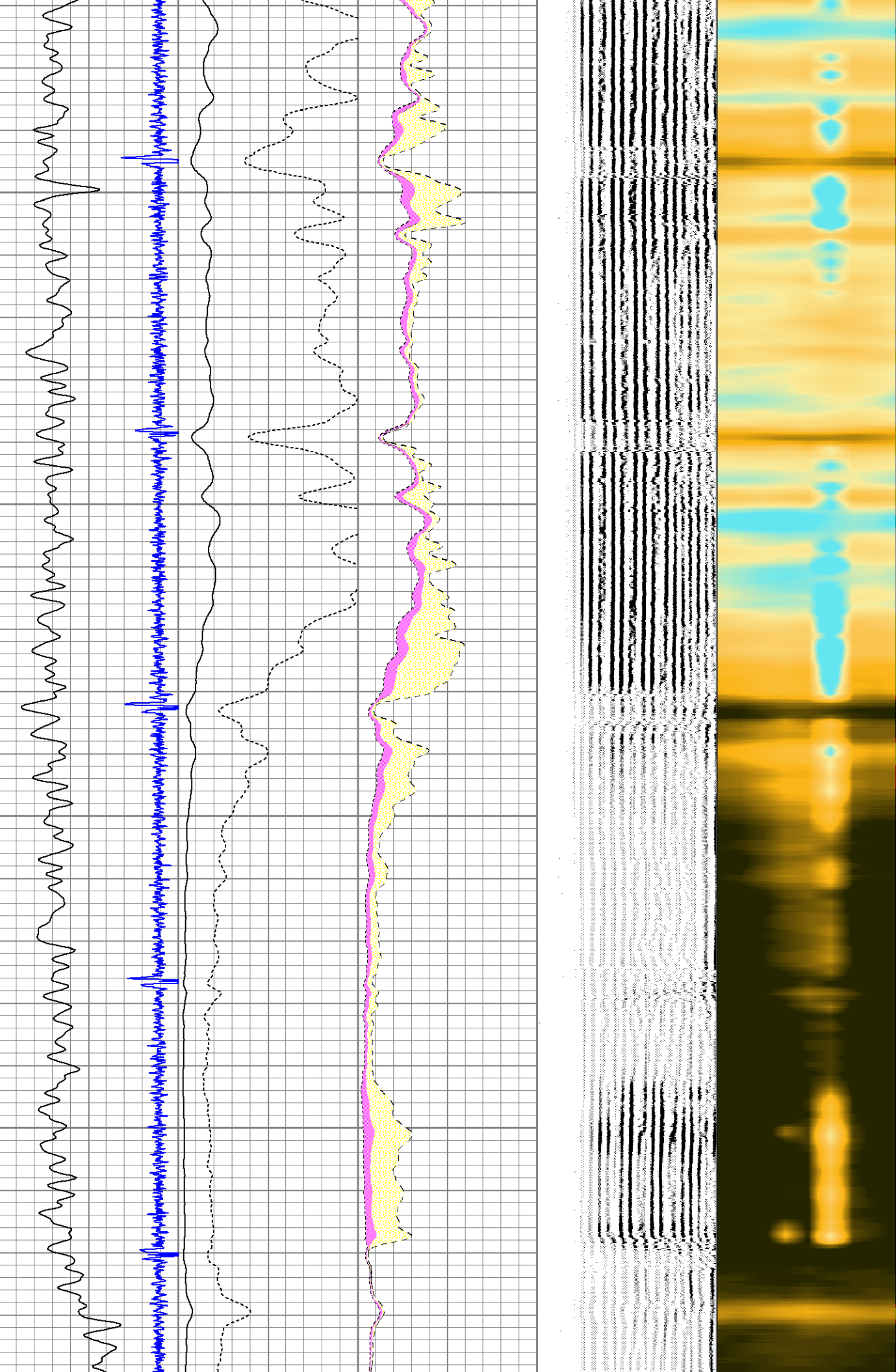
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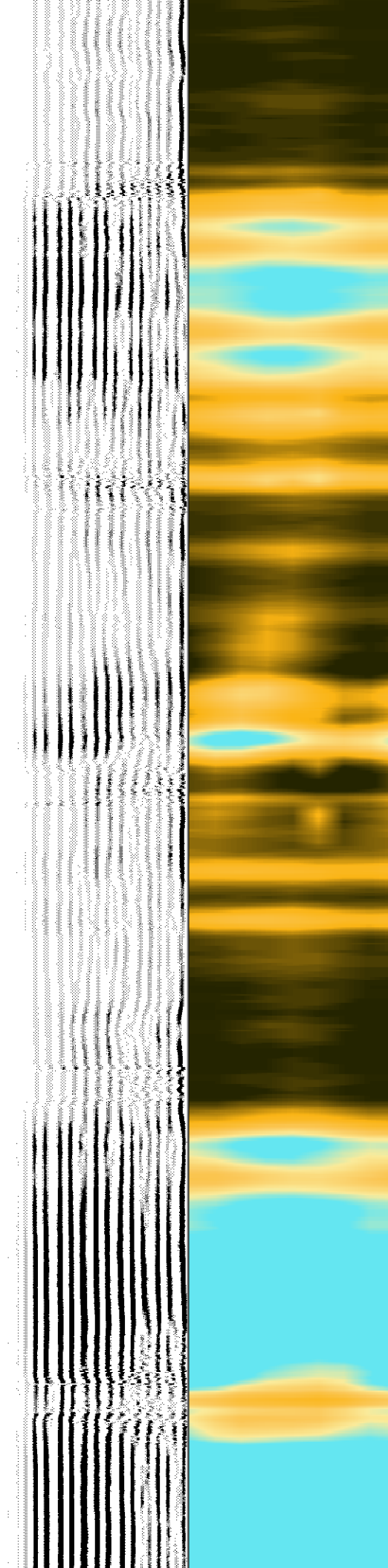
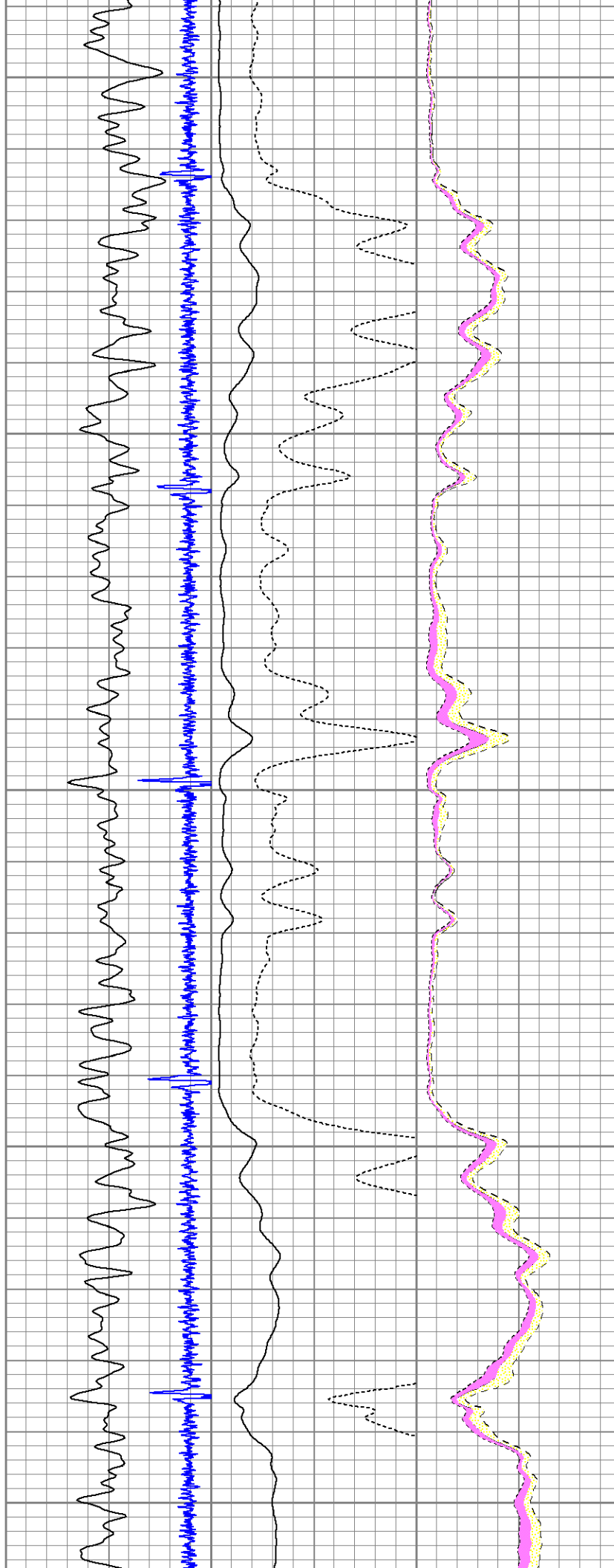
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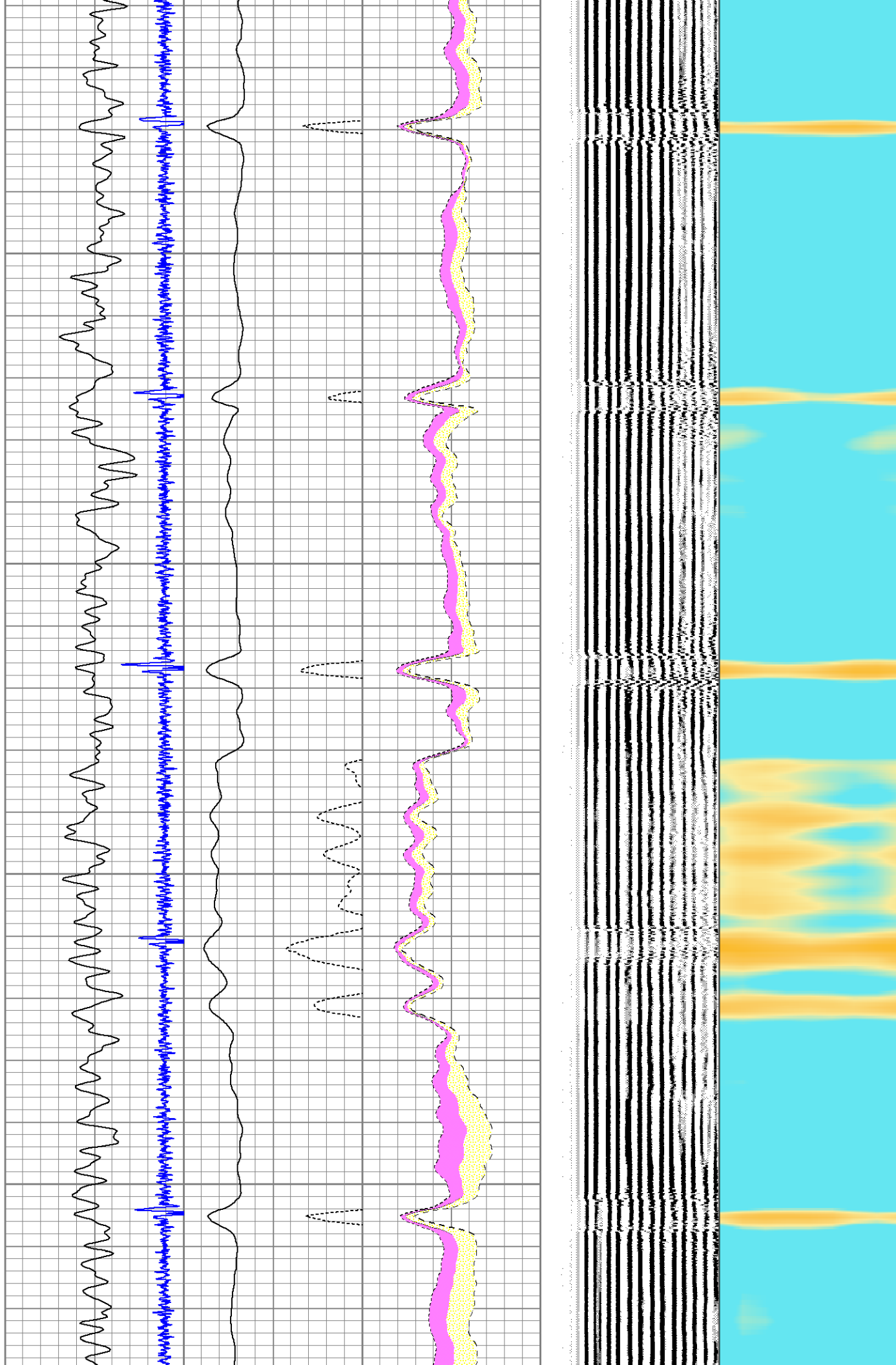
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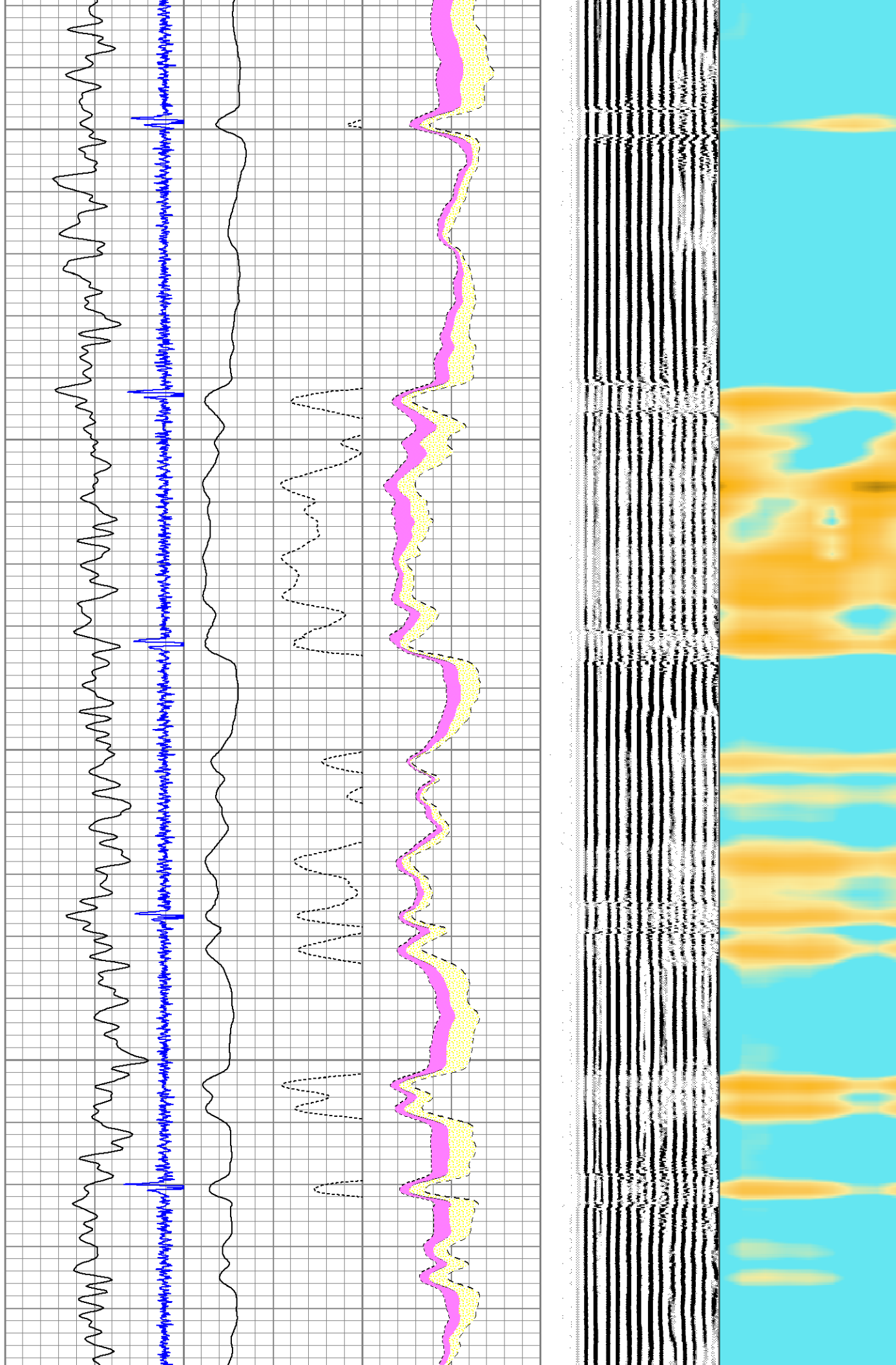
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1700



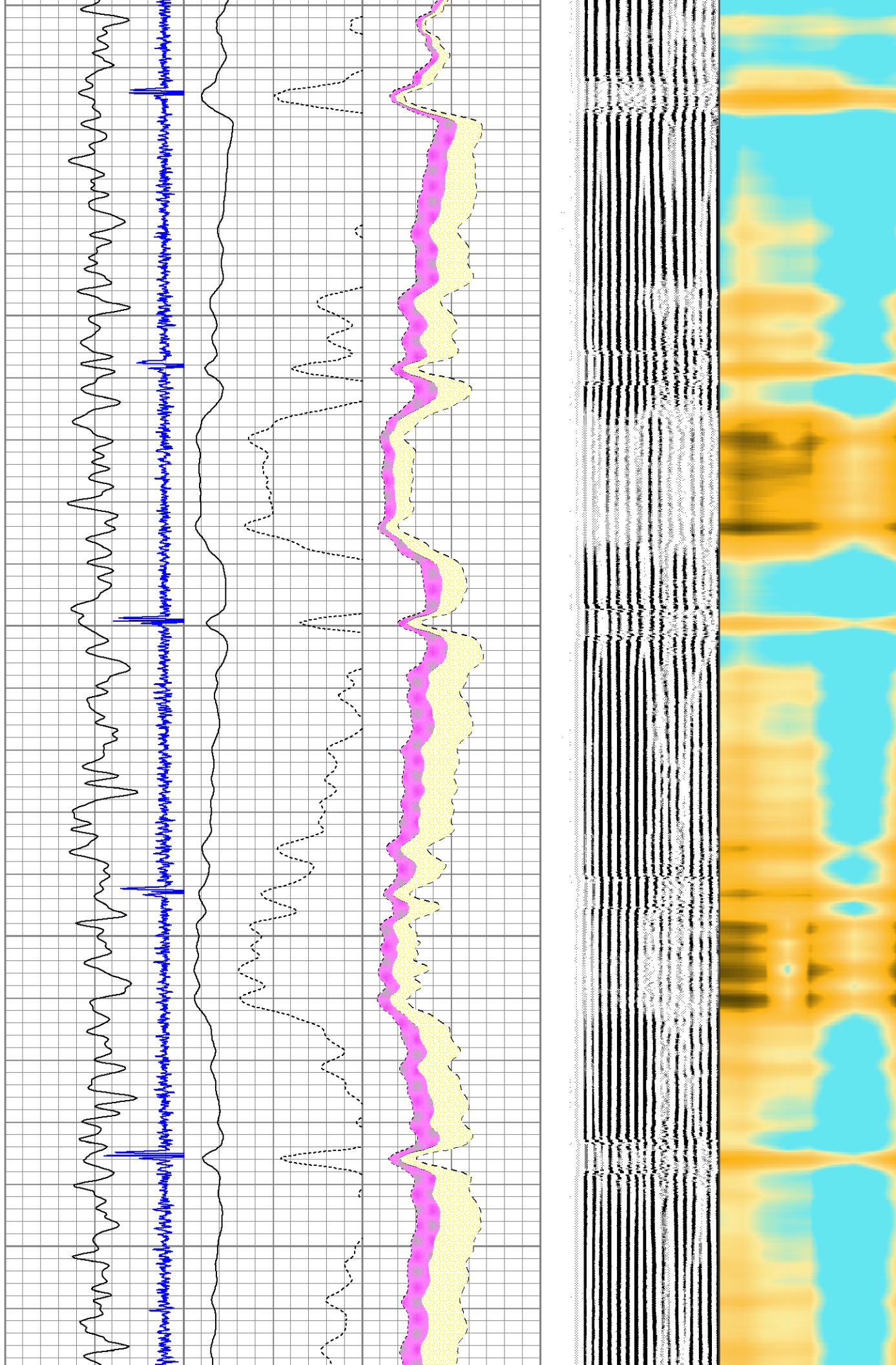
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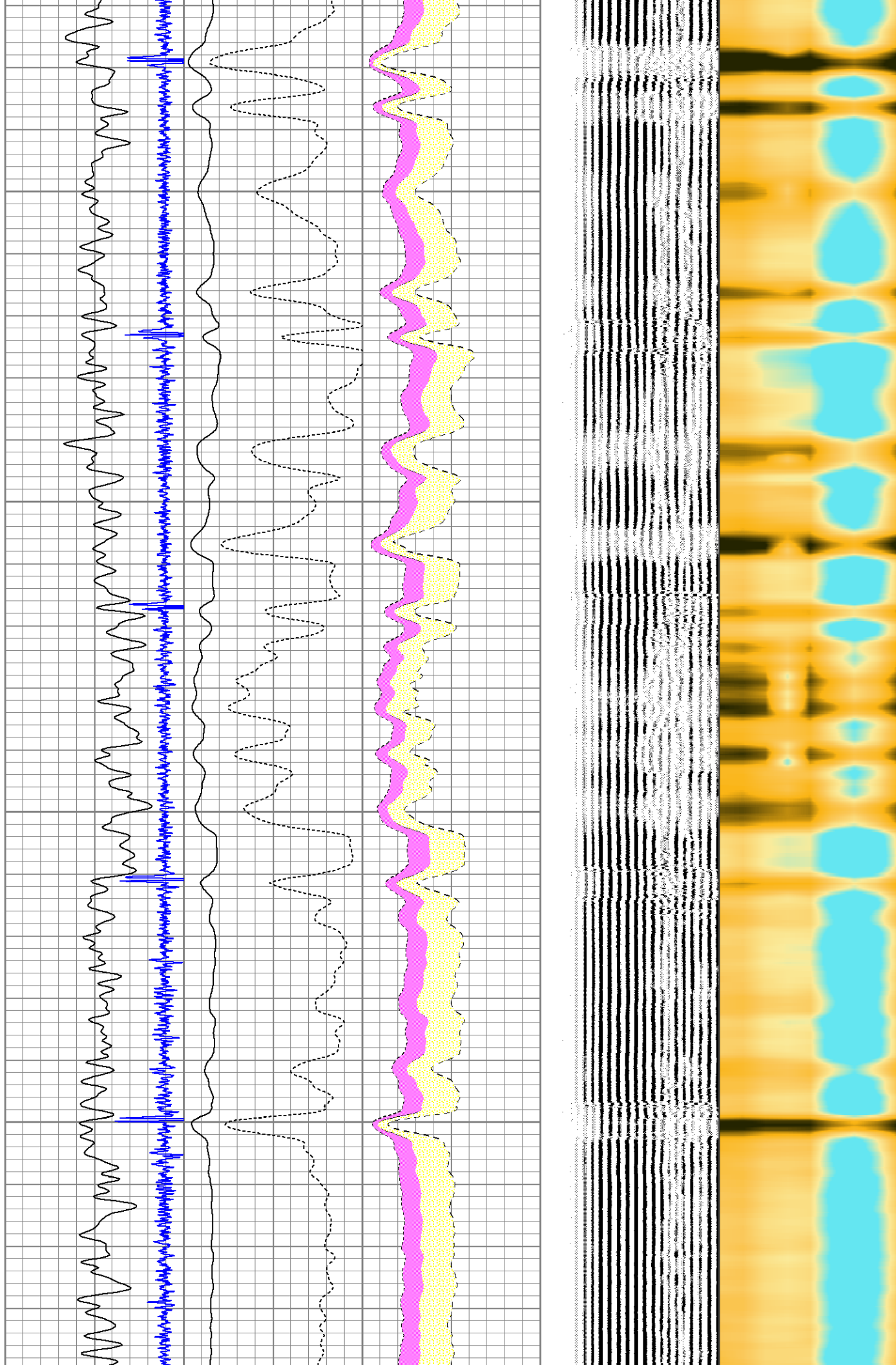
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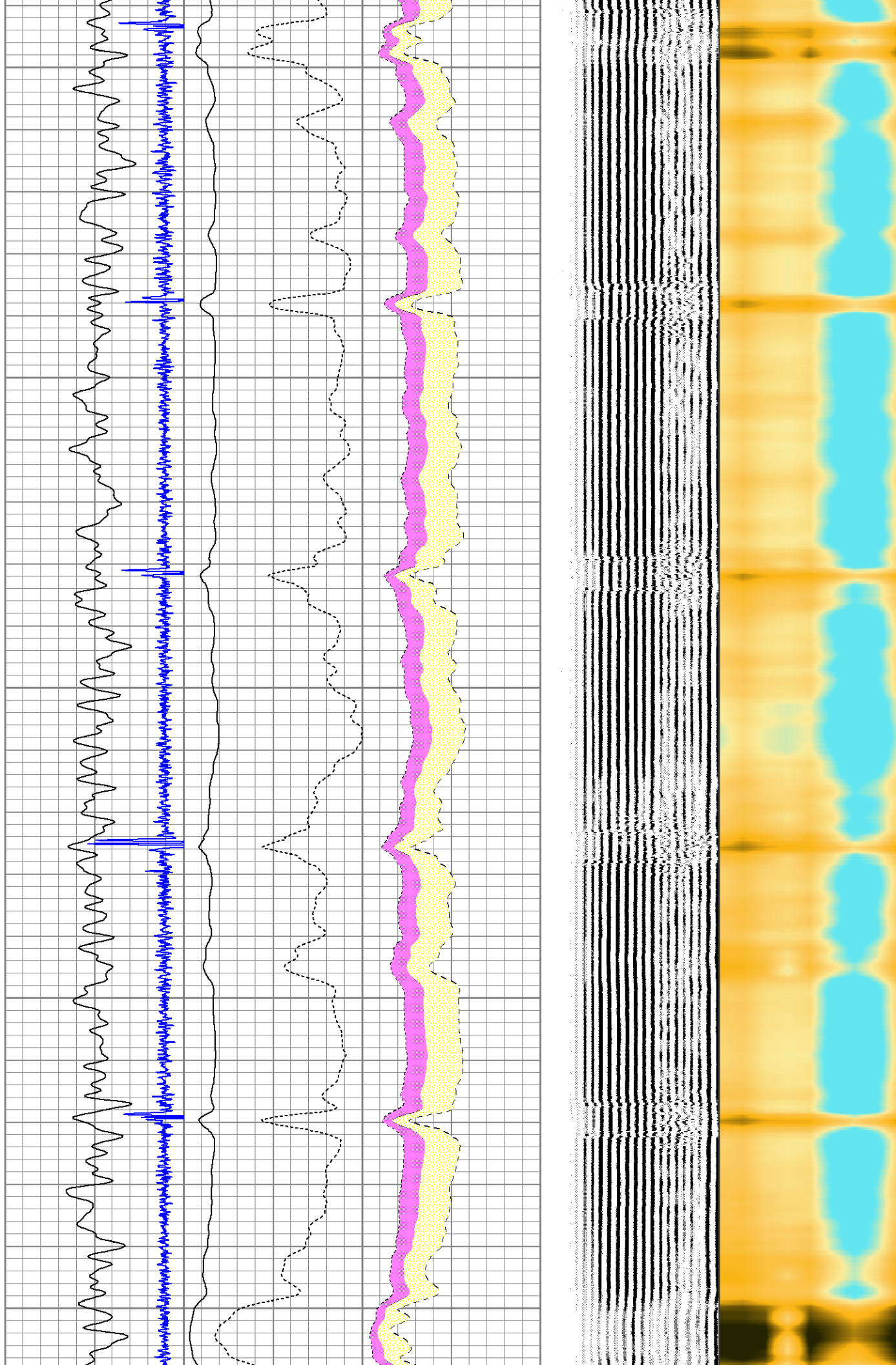
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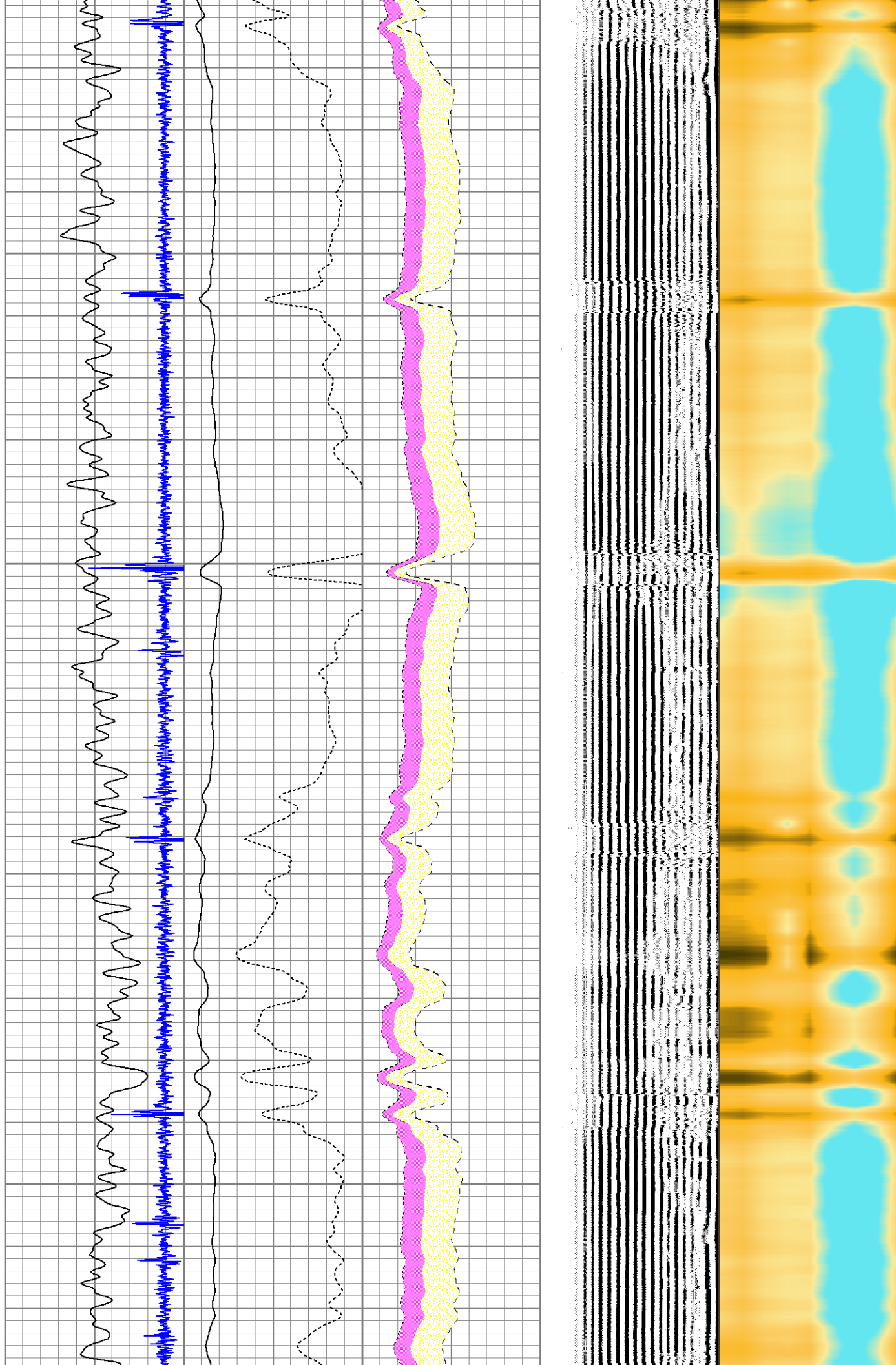
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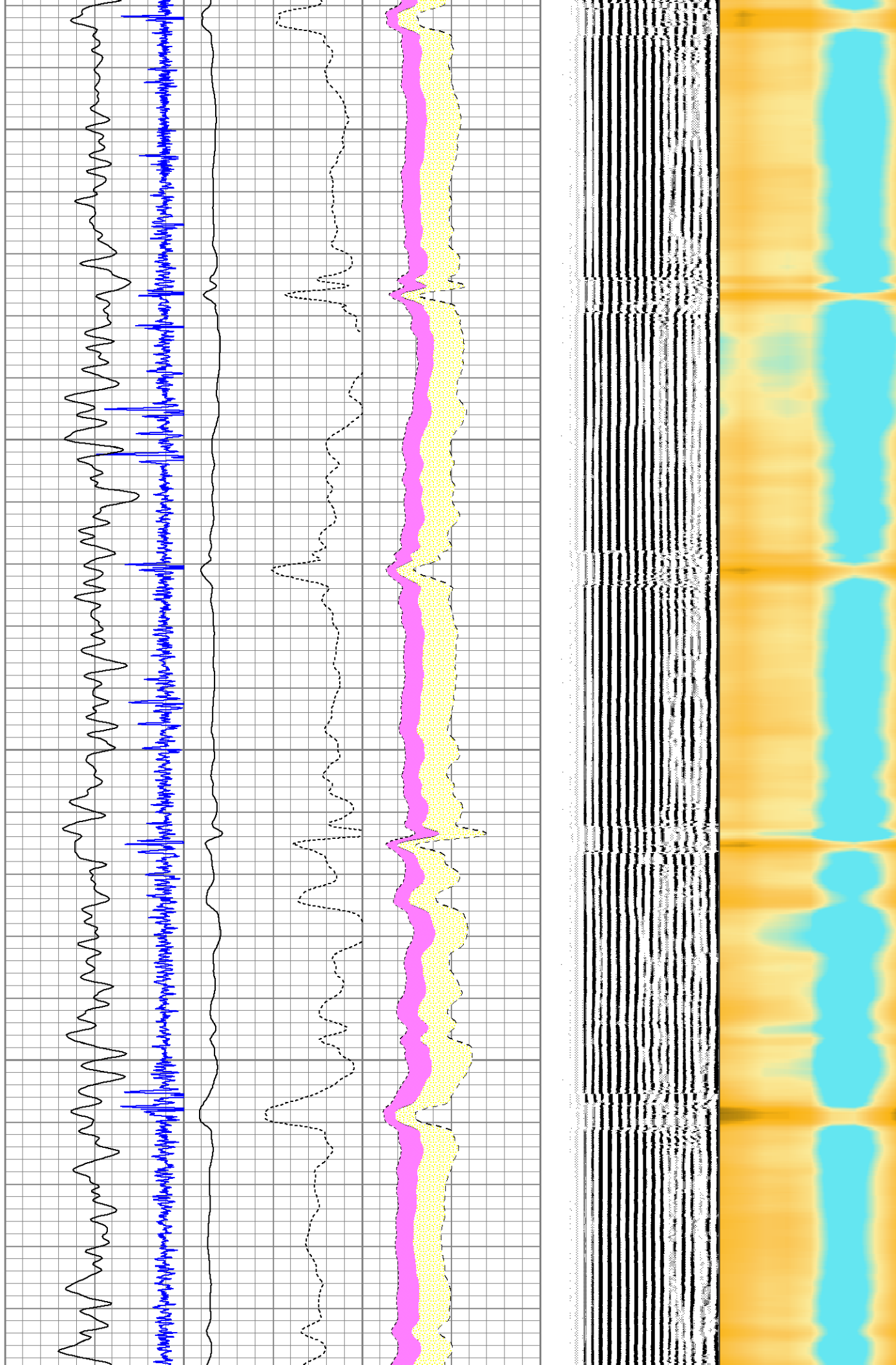
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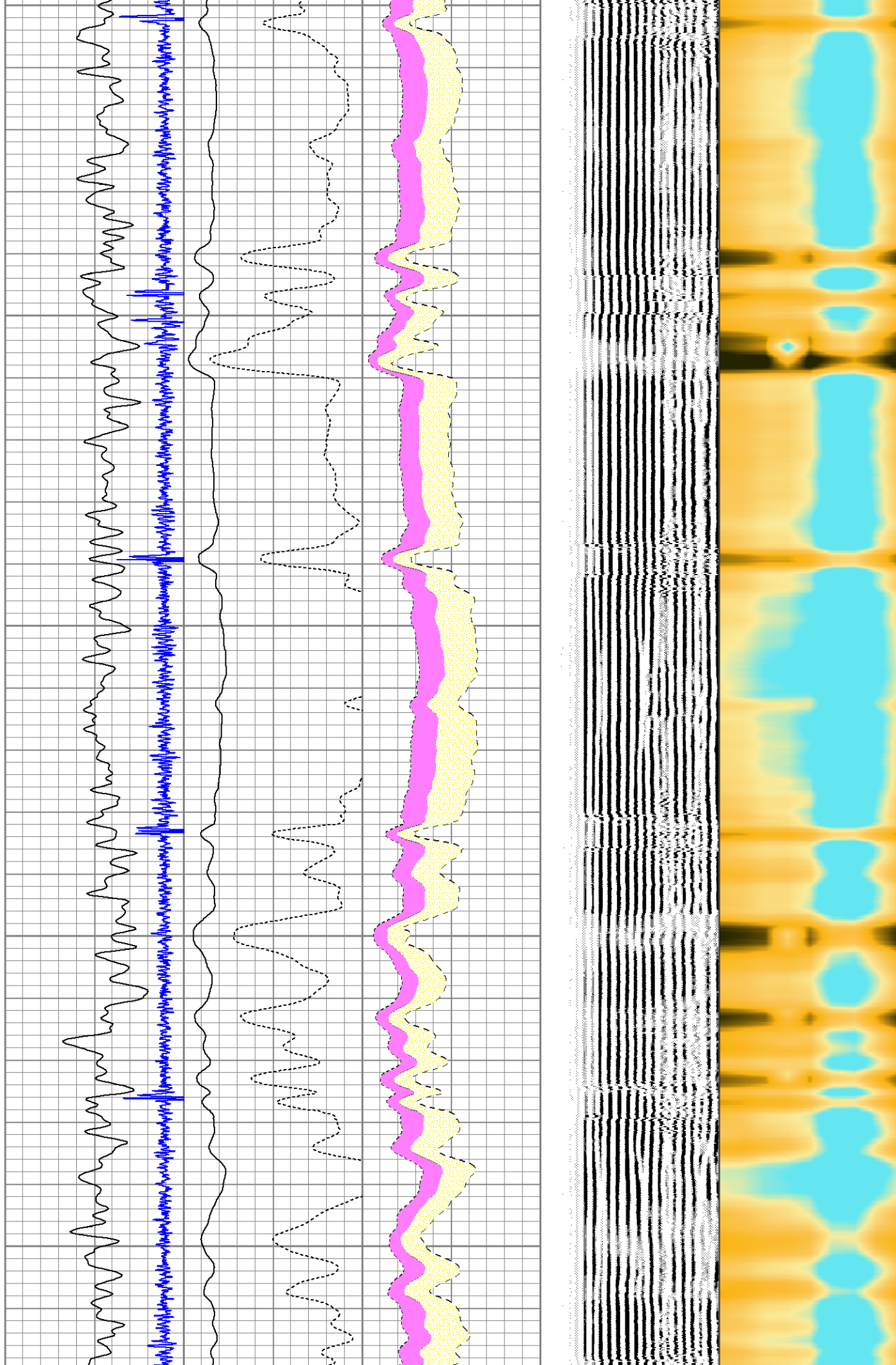
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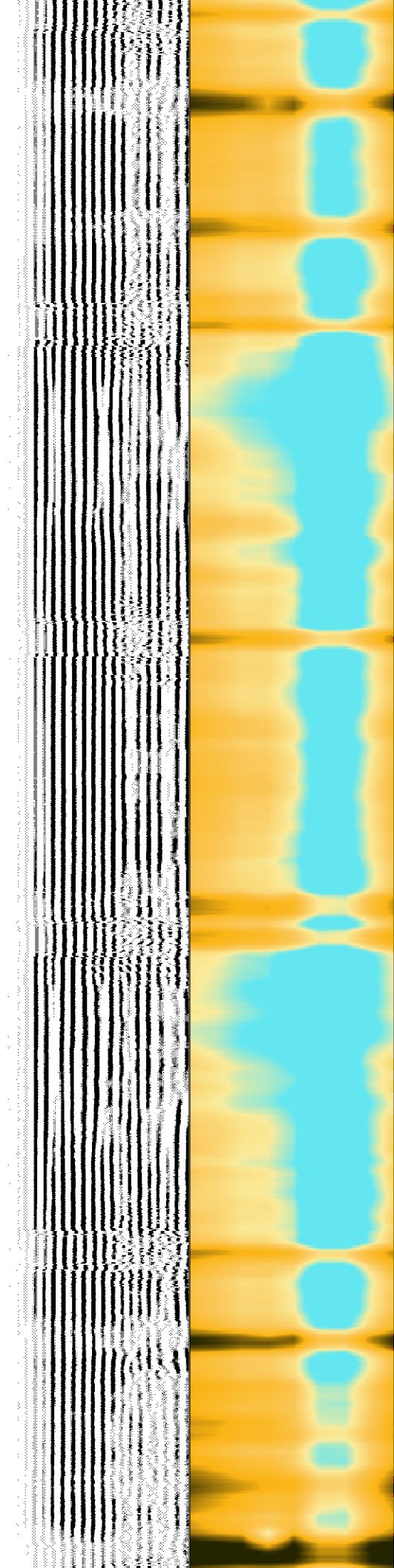
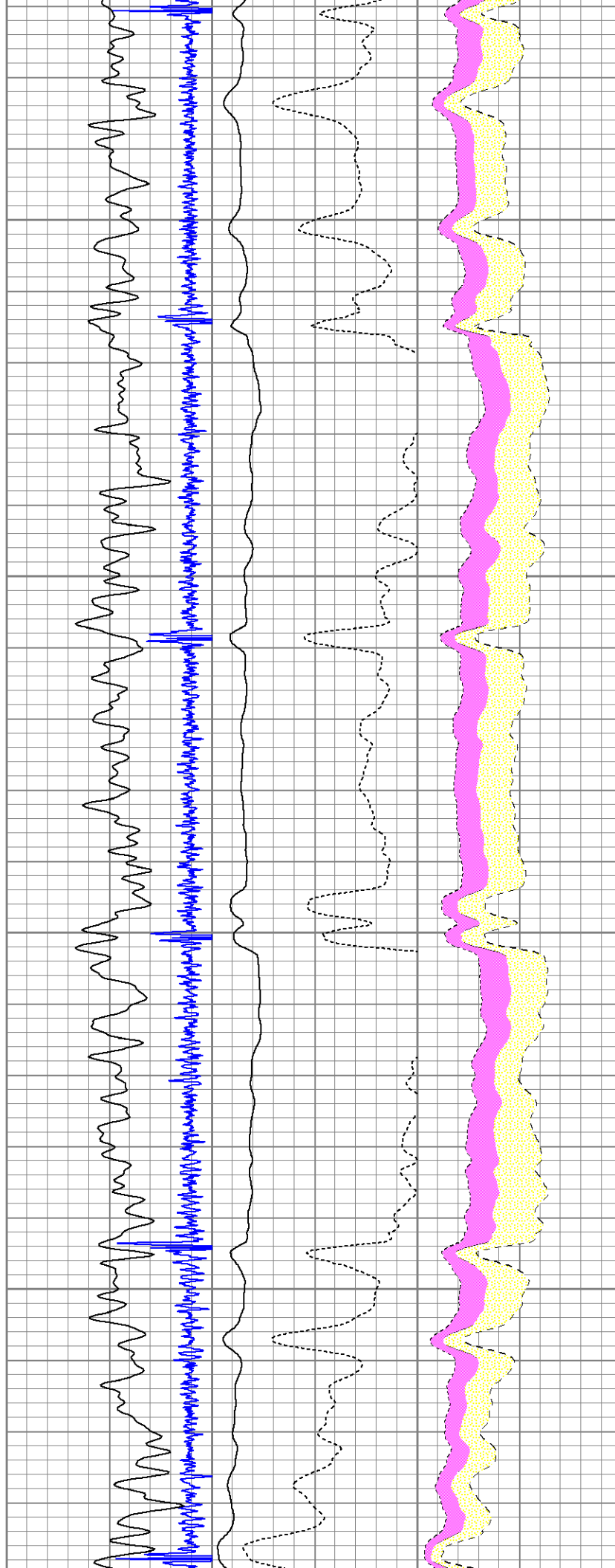
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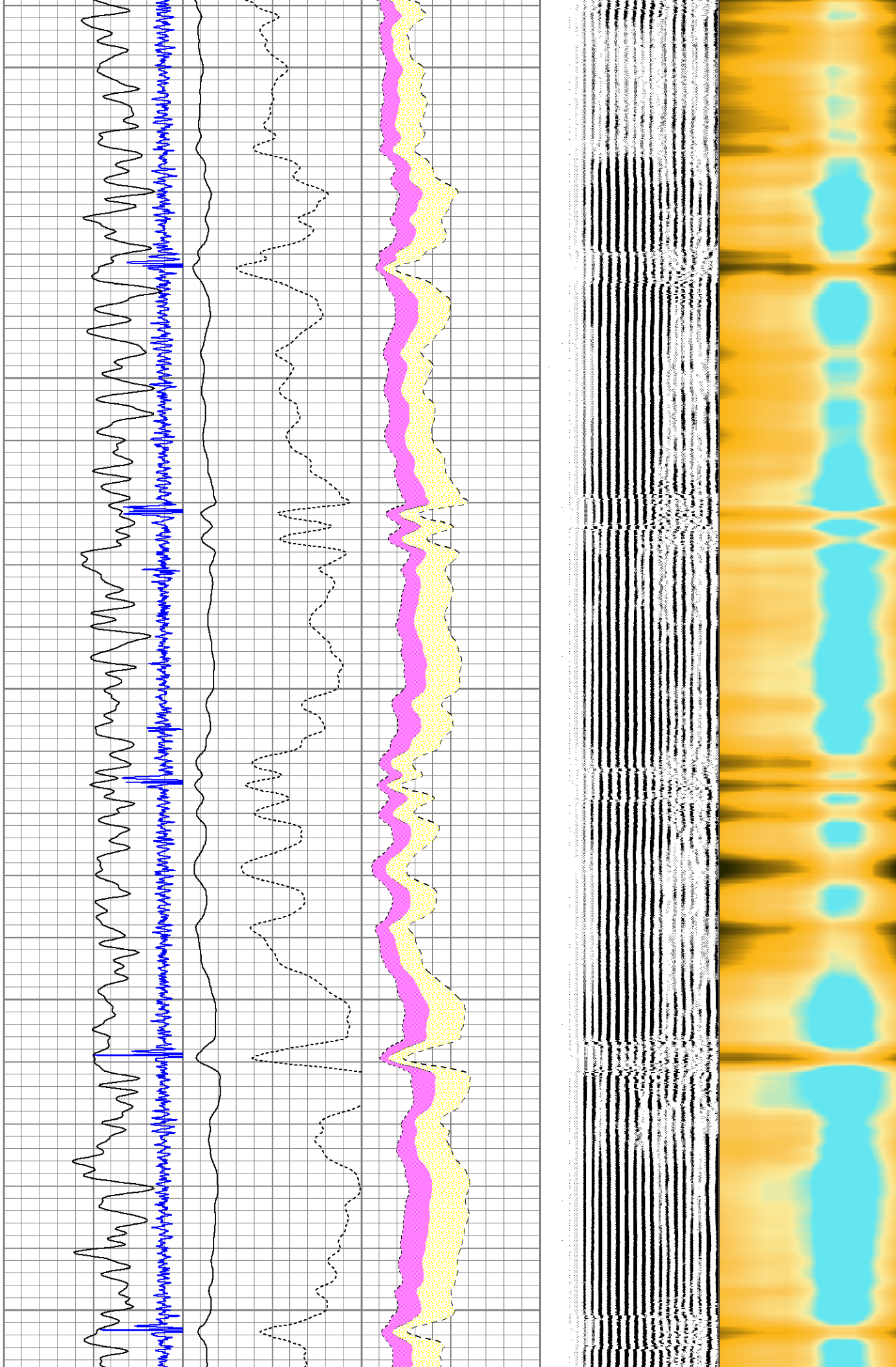
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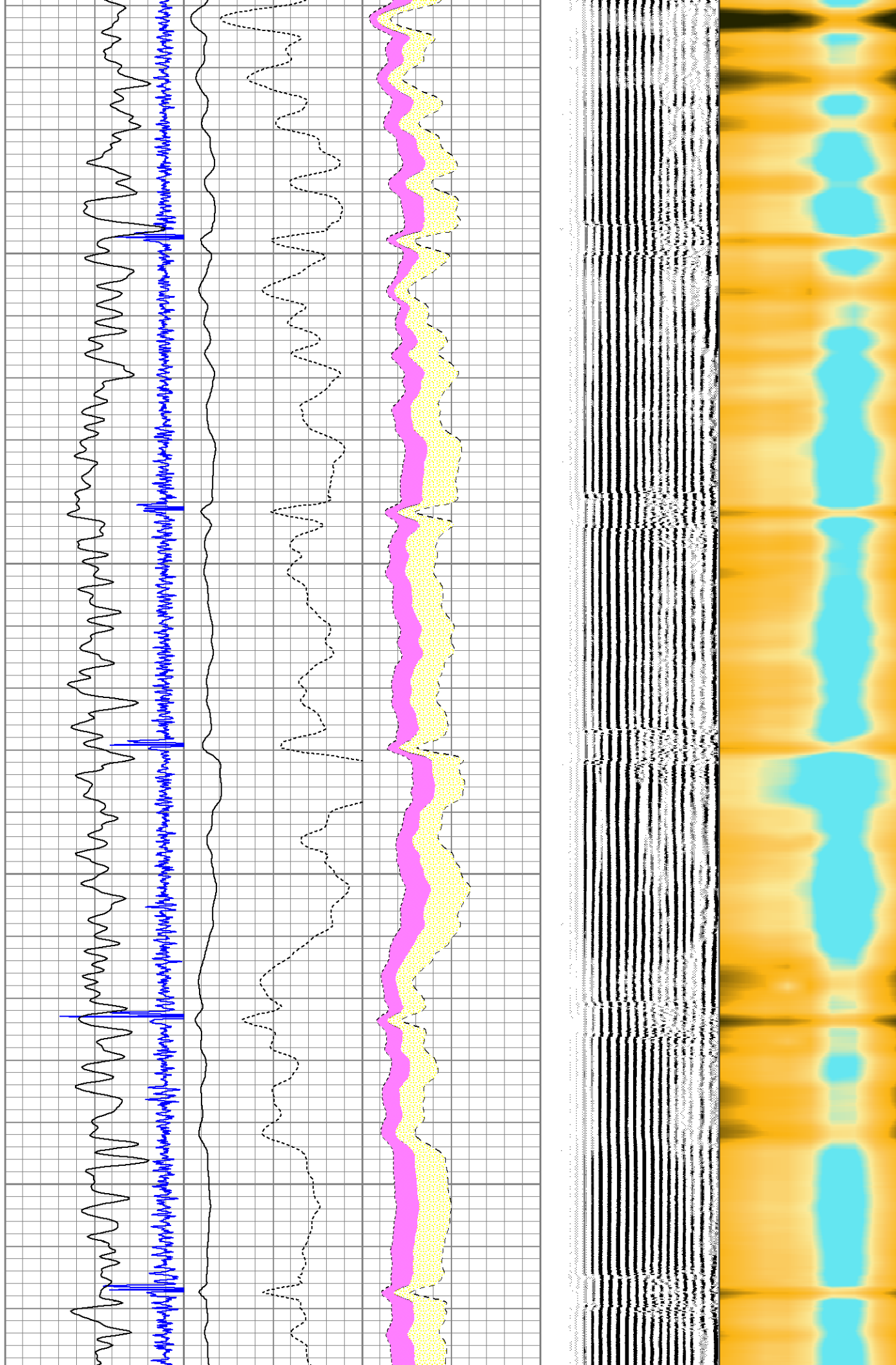
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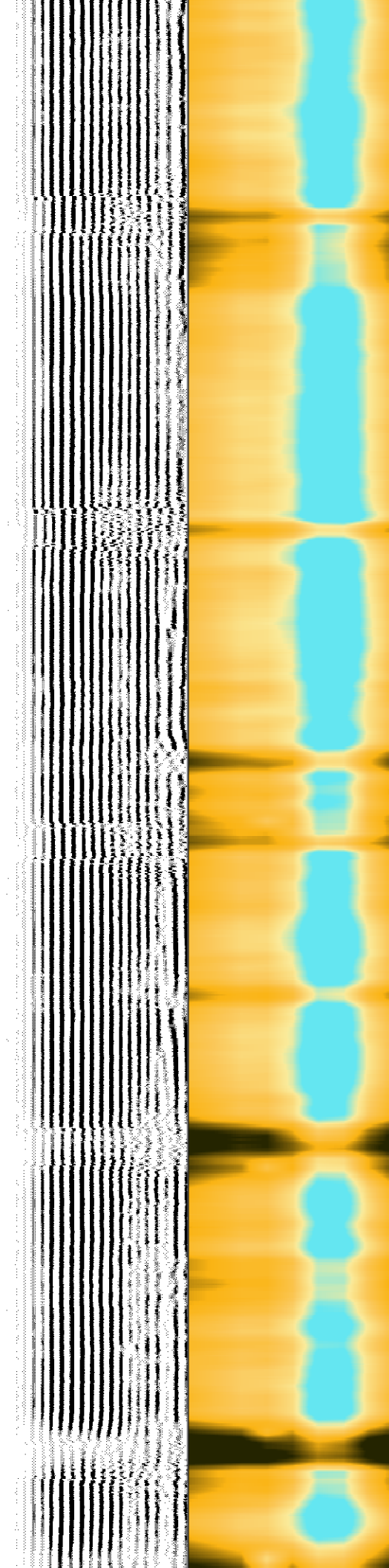
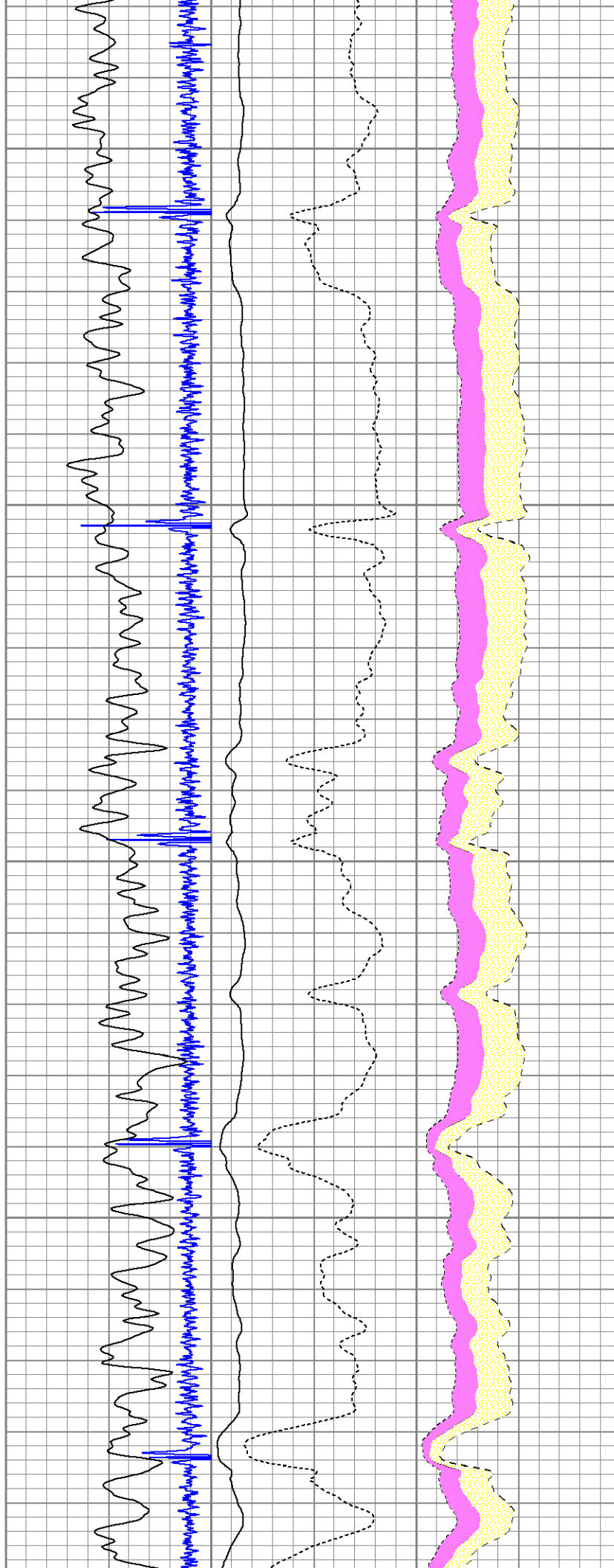
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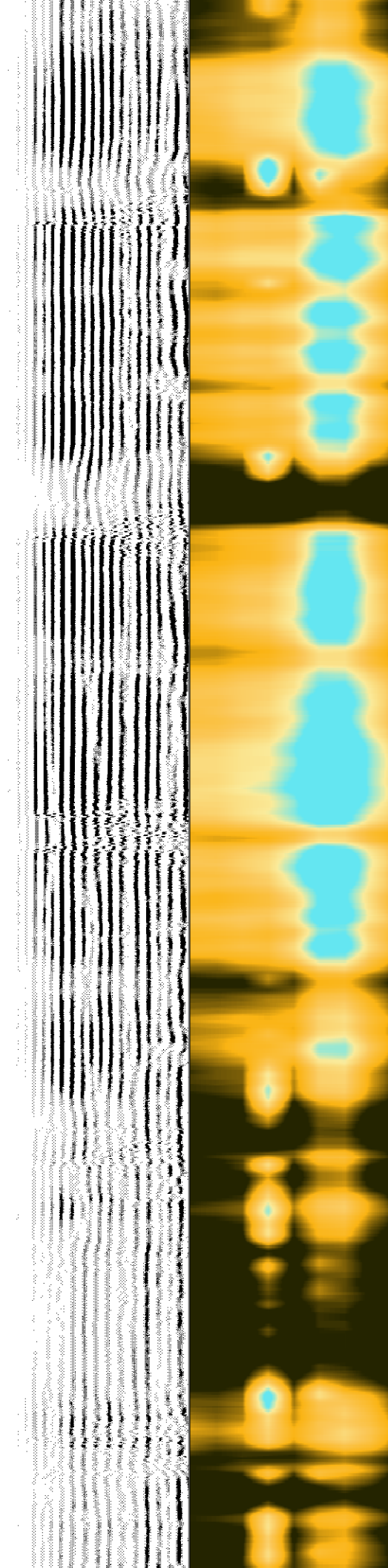
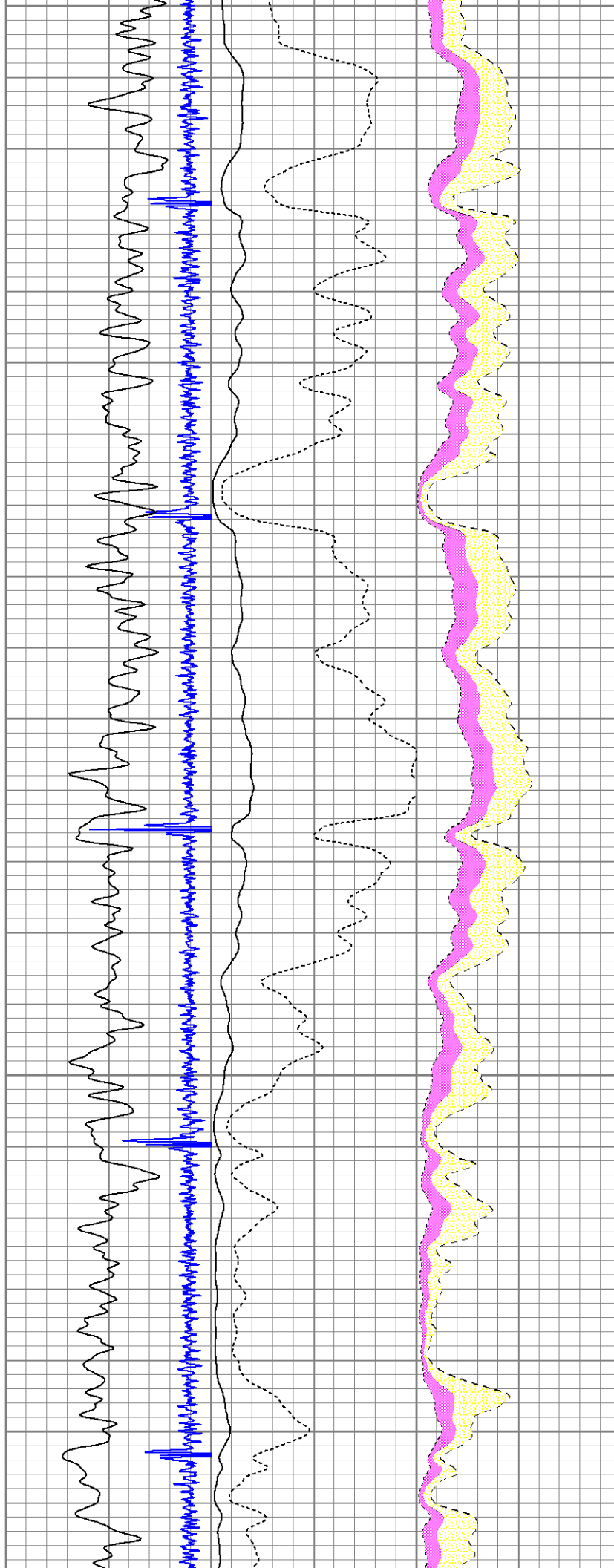
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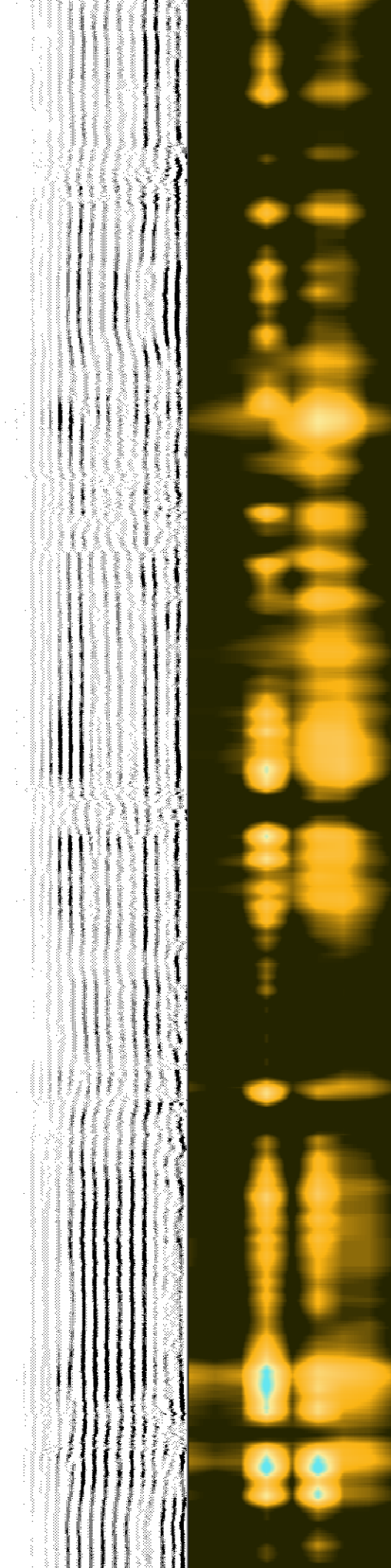
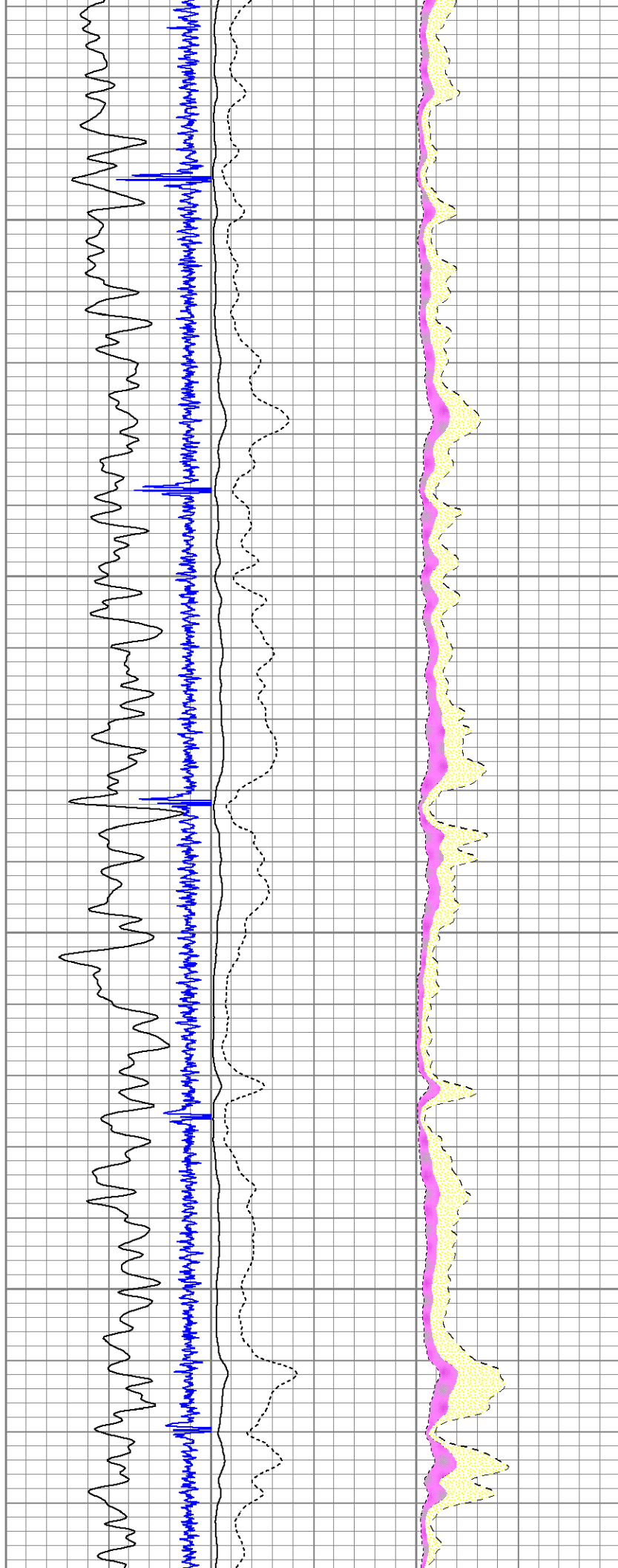
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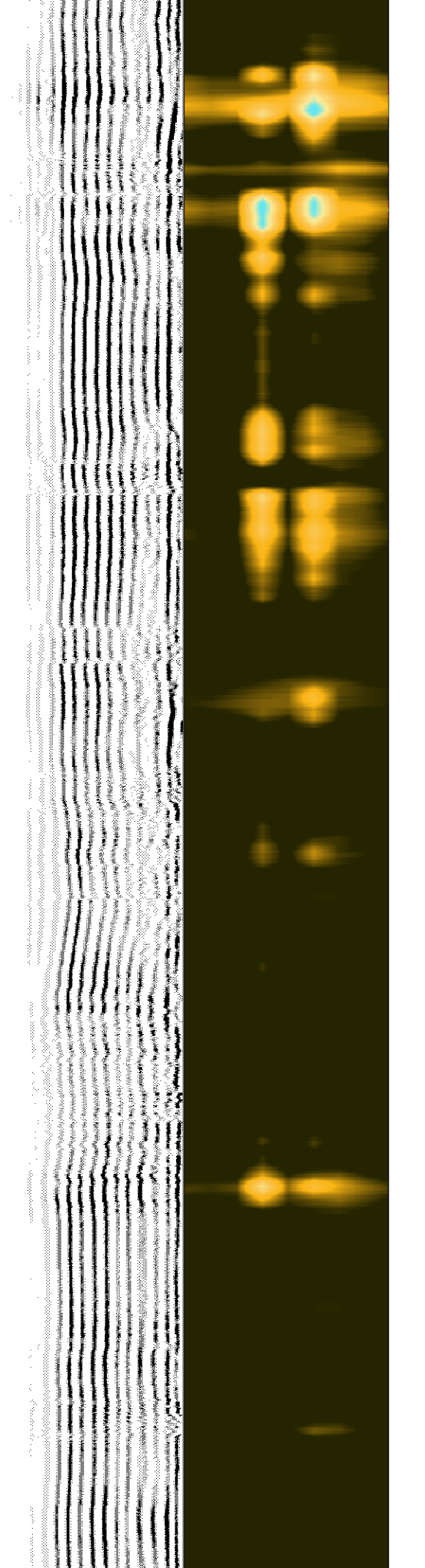
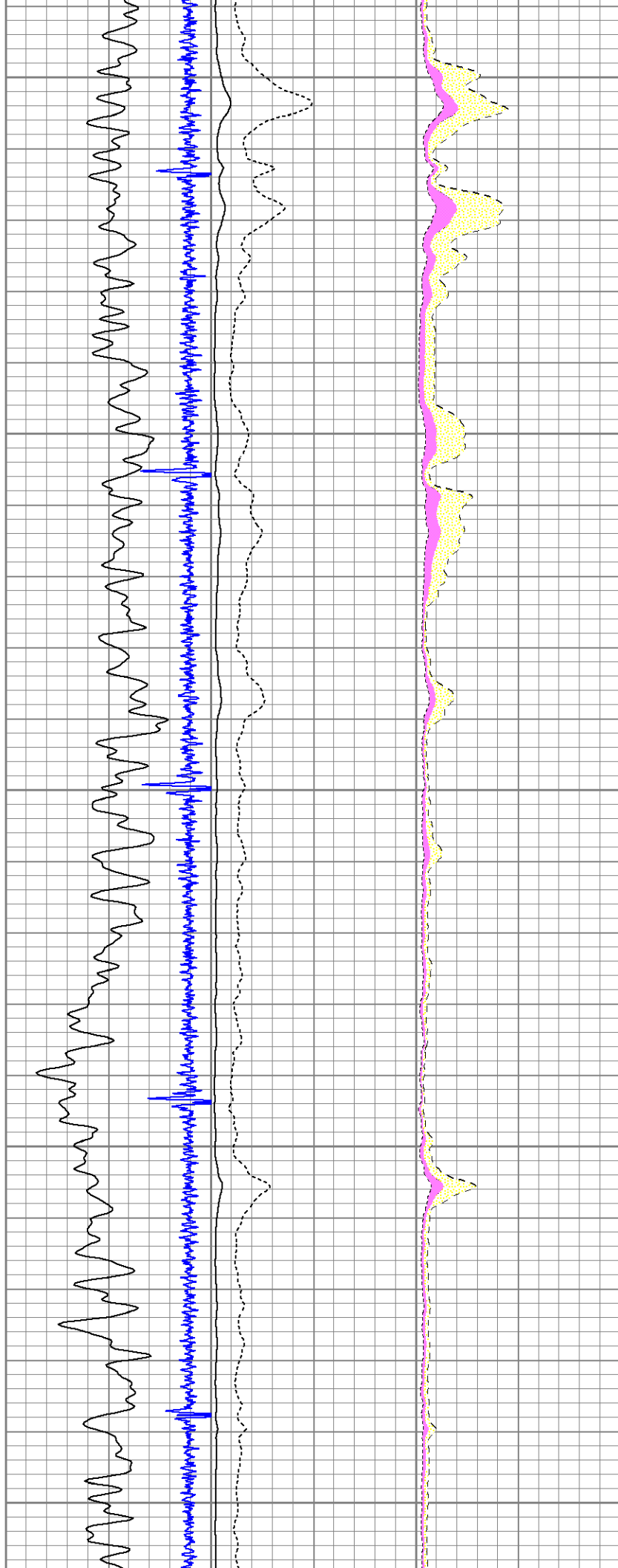
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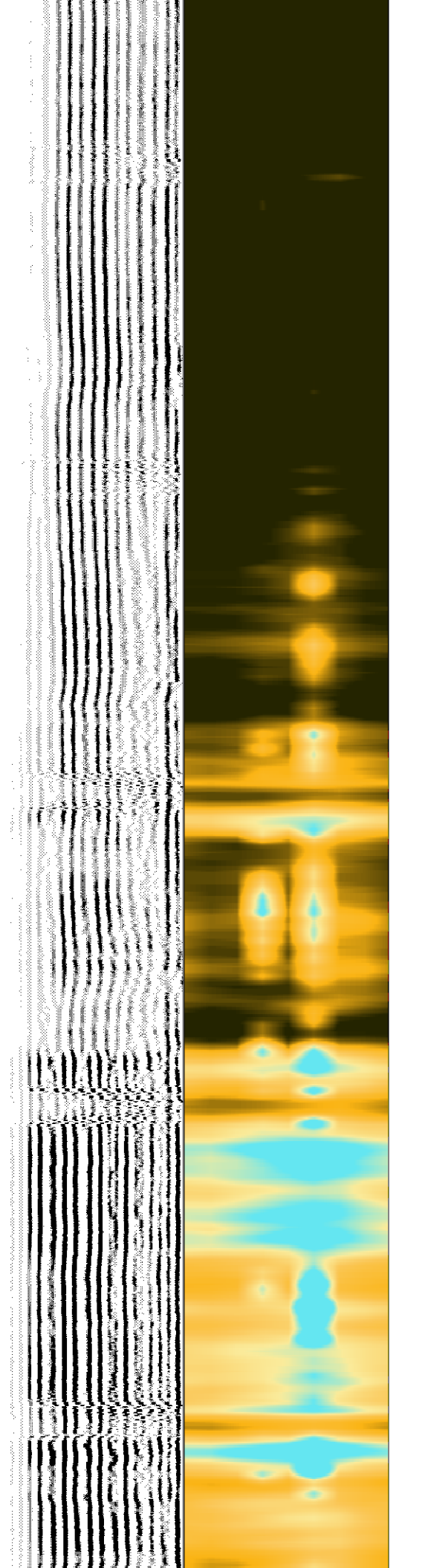
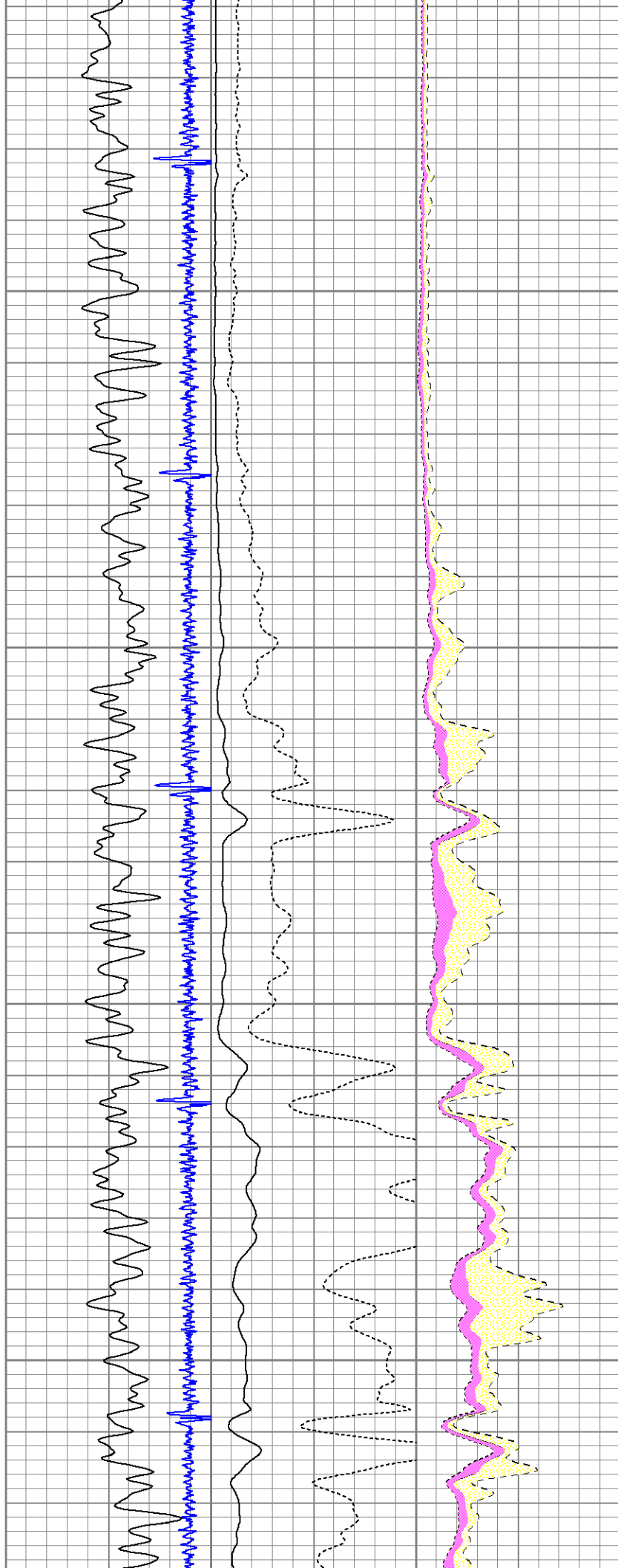
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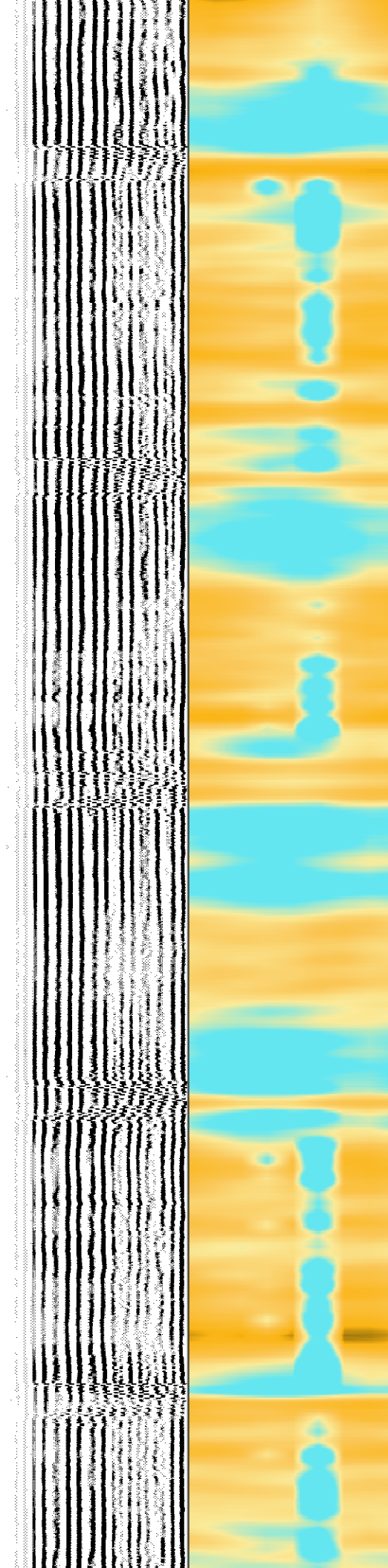
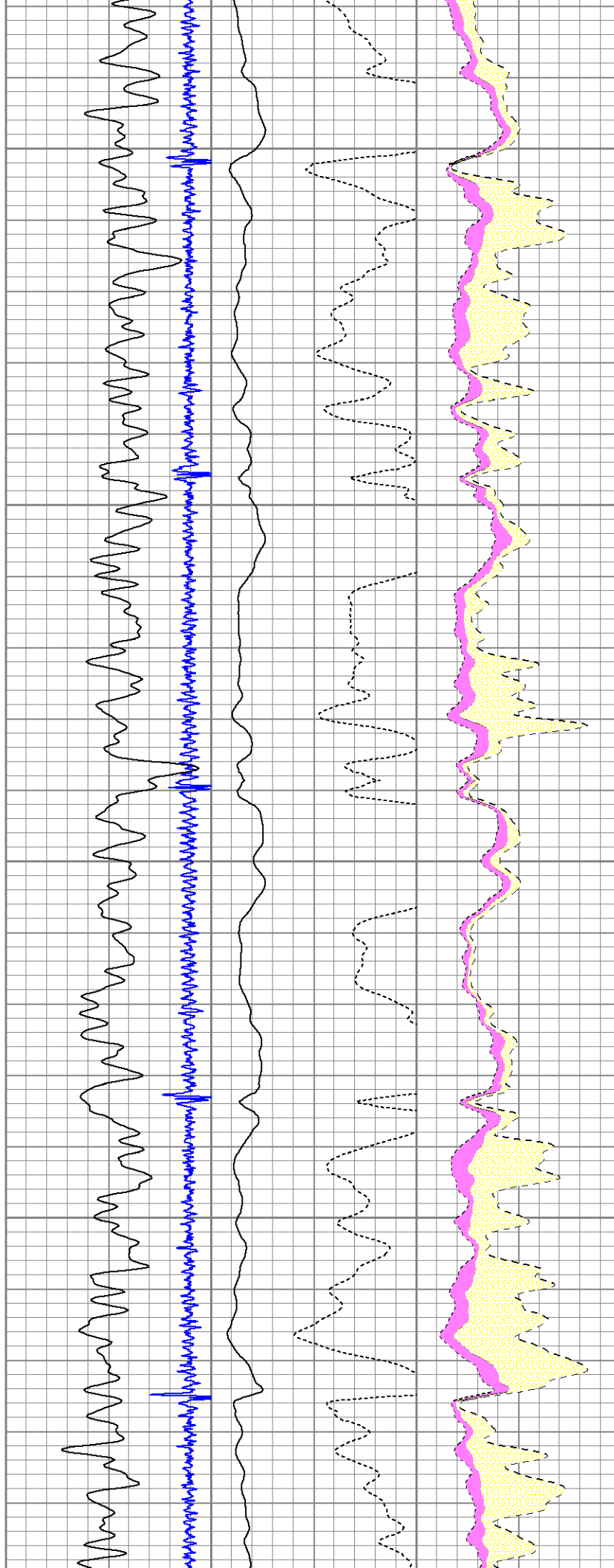
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4900

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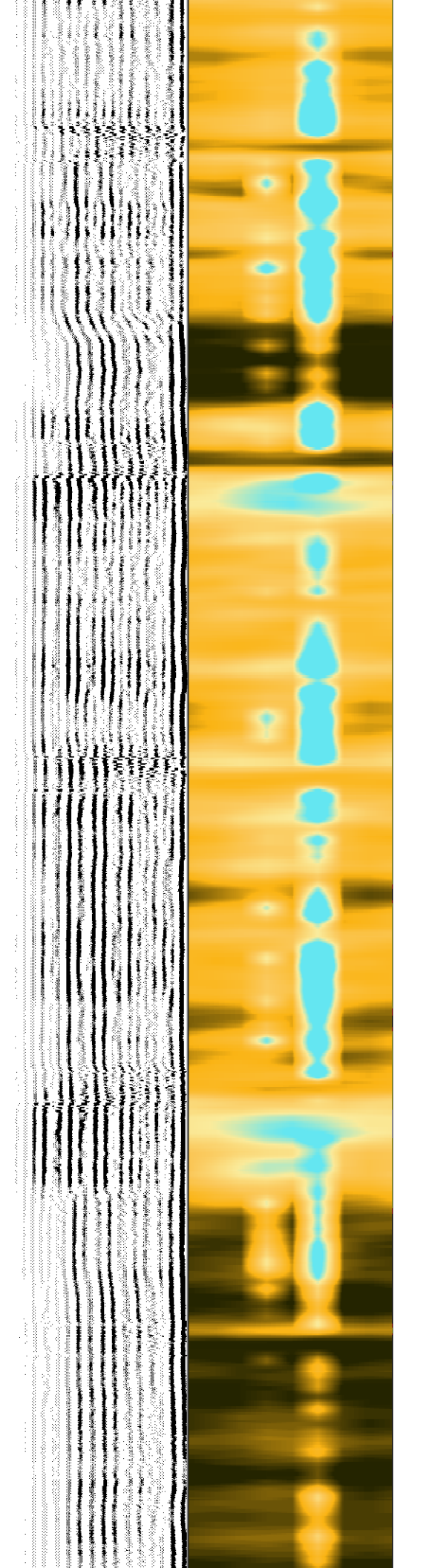
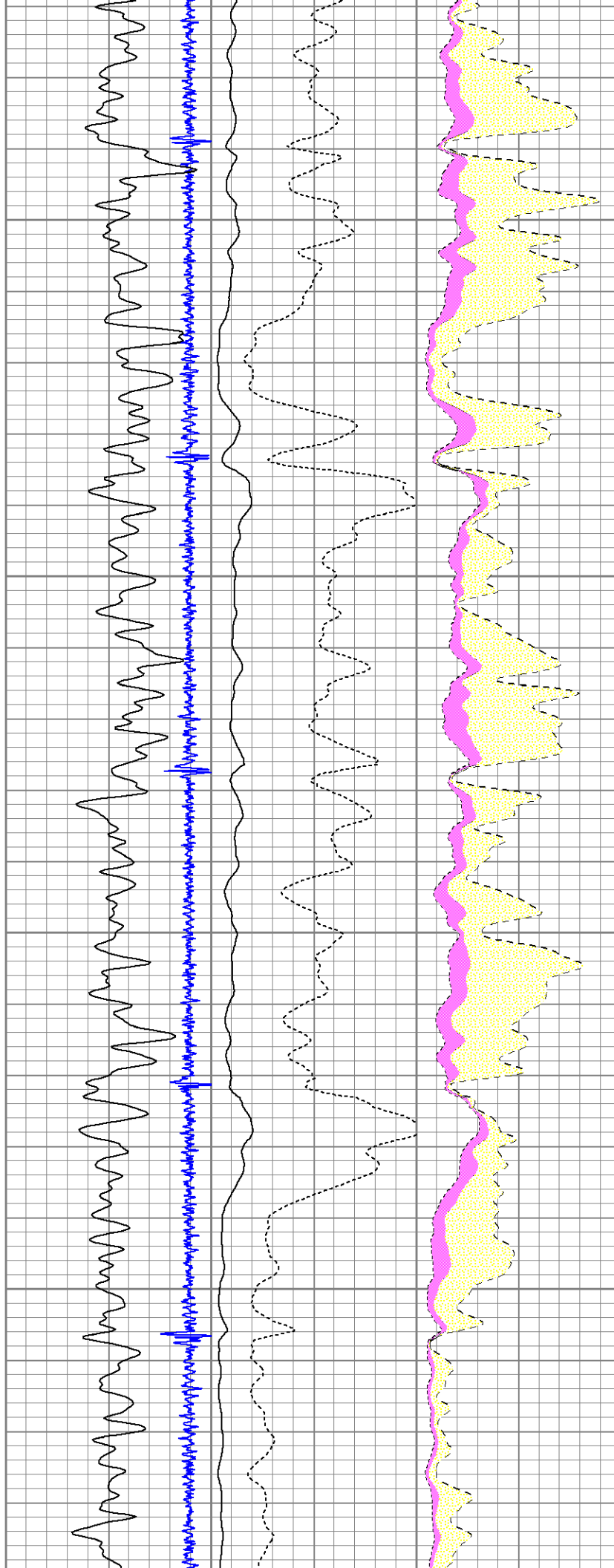




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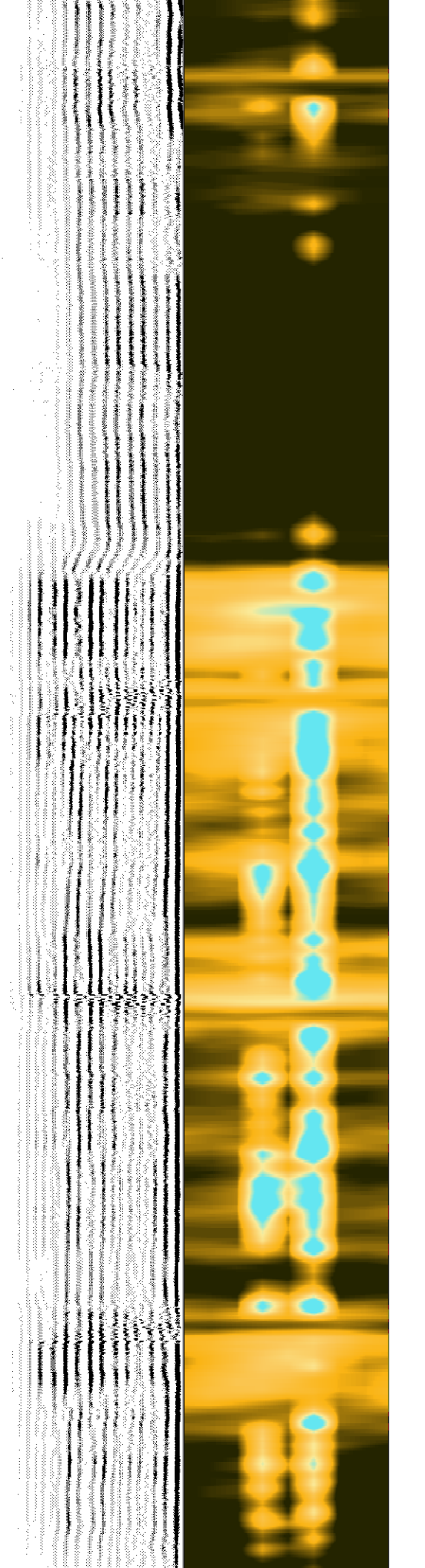
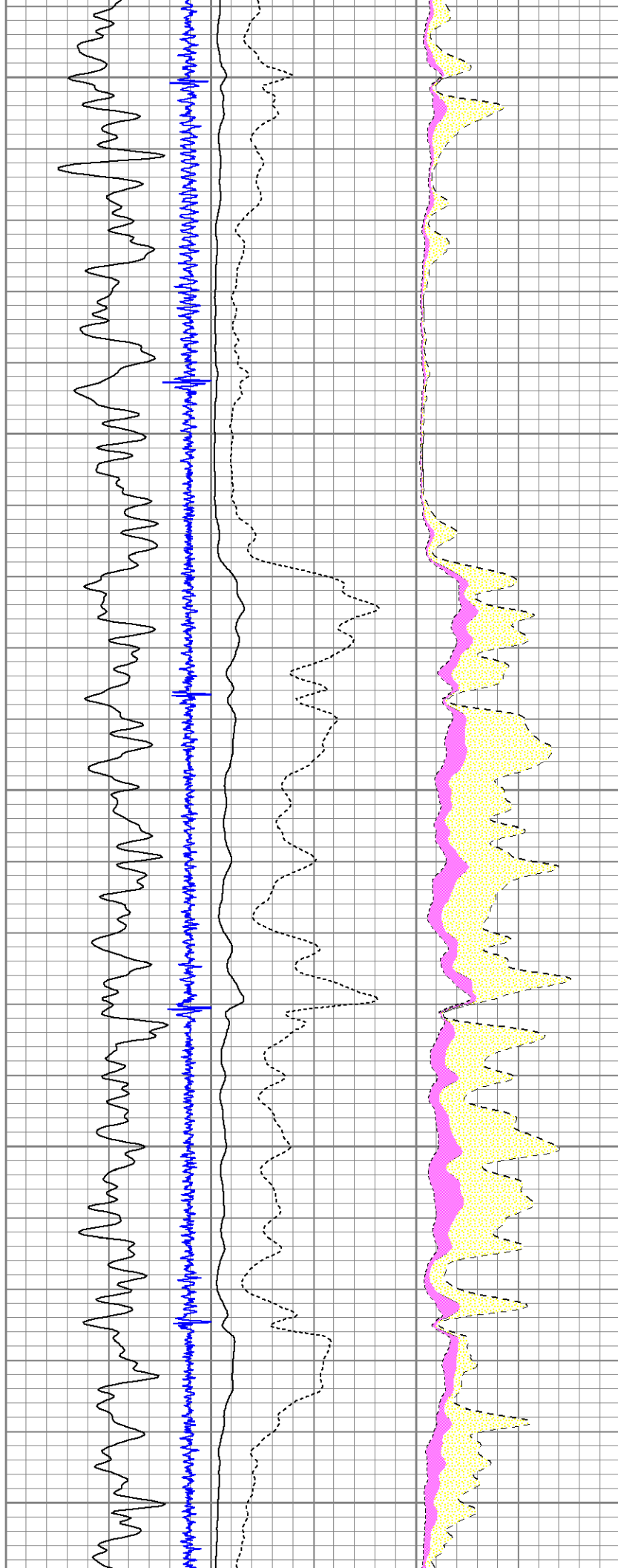
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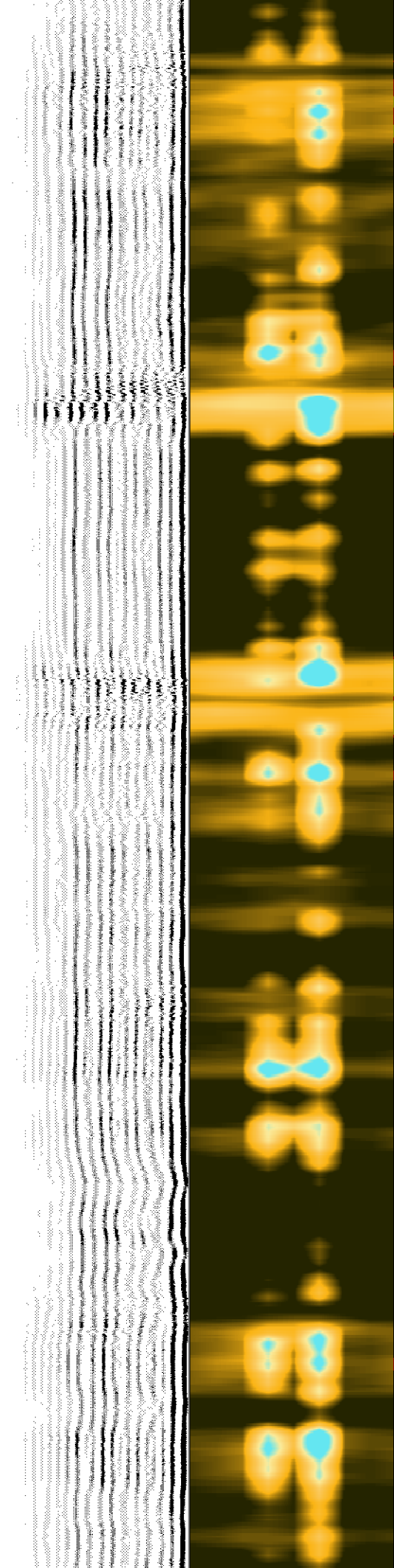
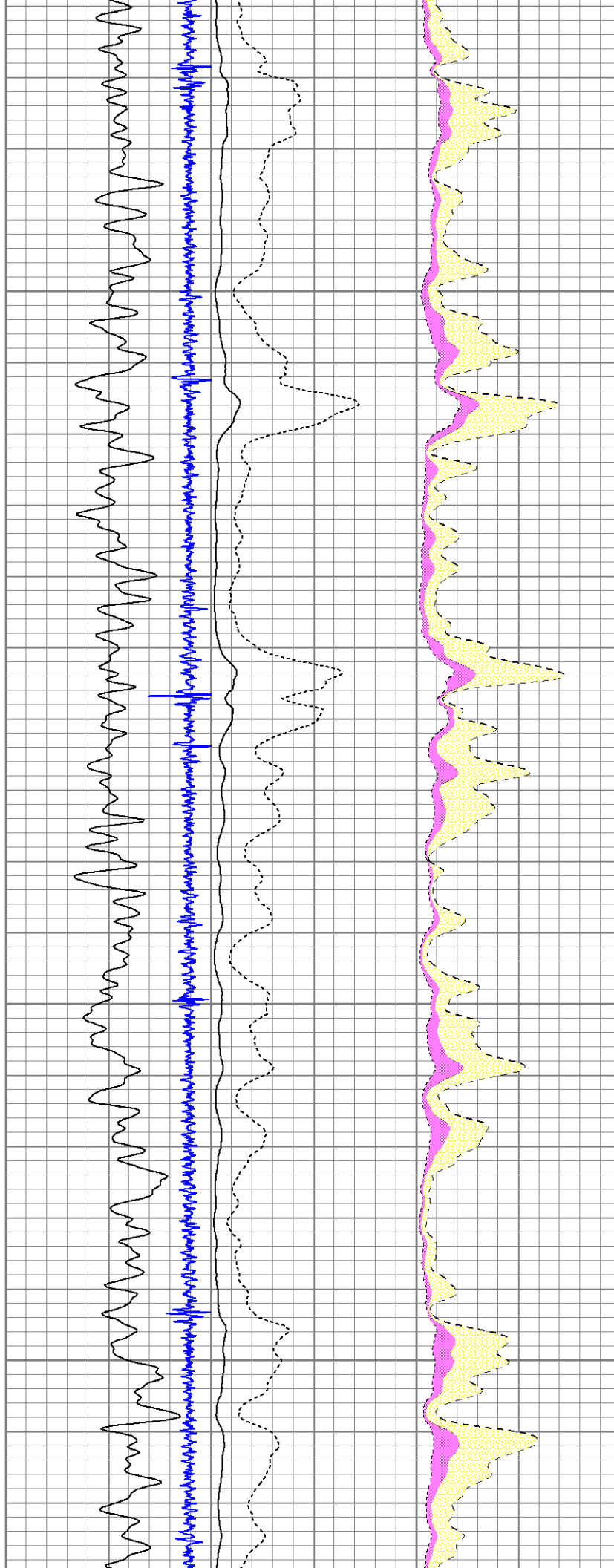
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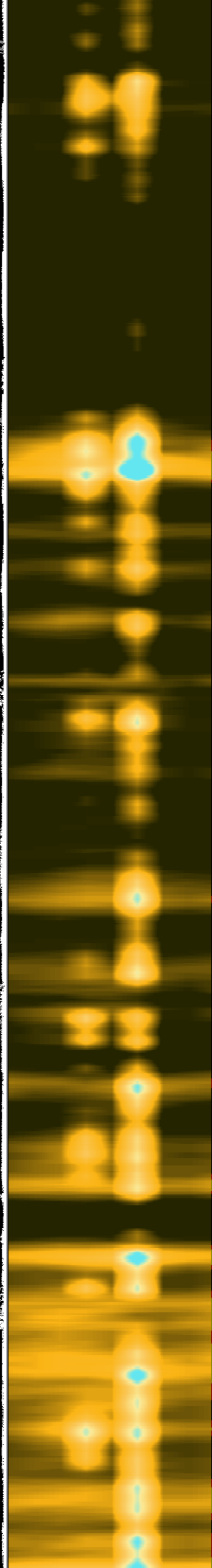
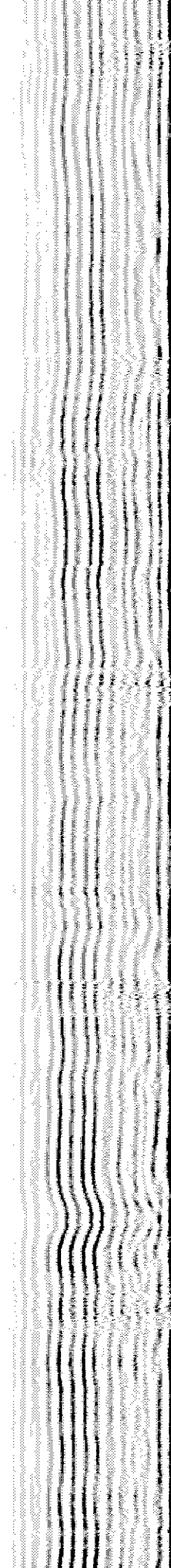
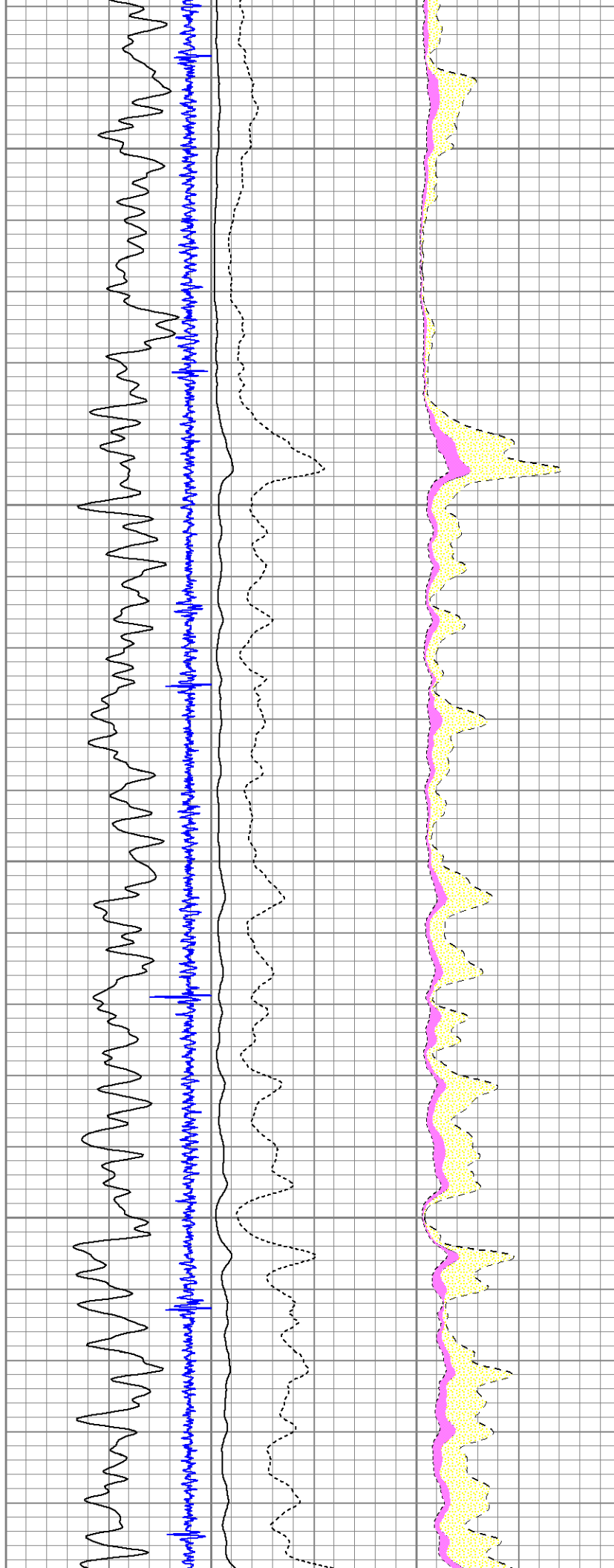
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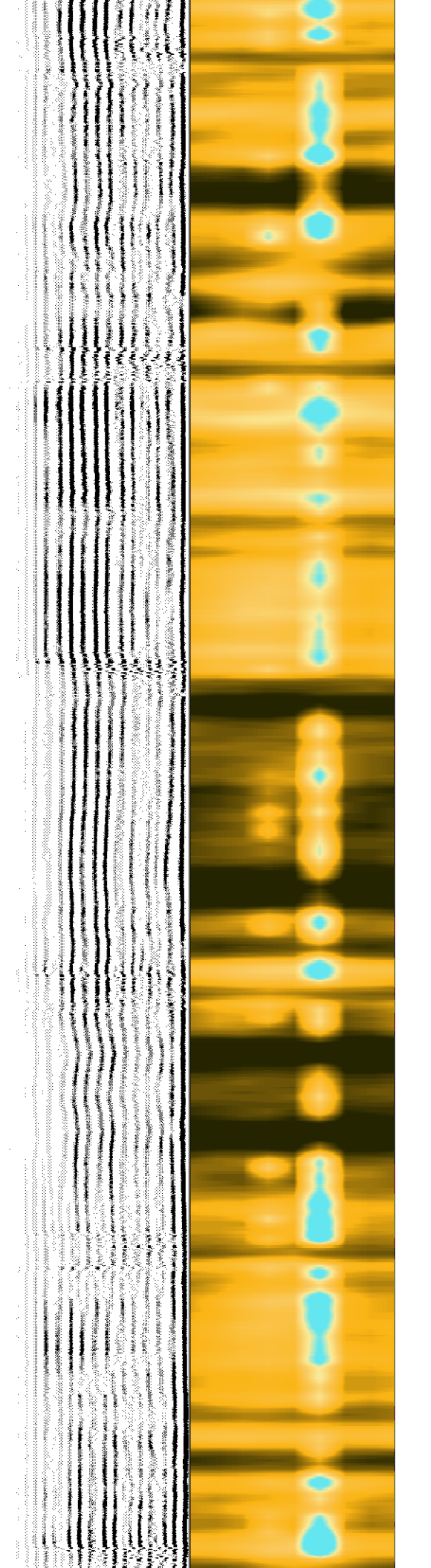
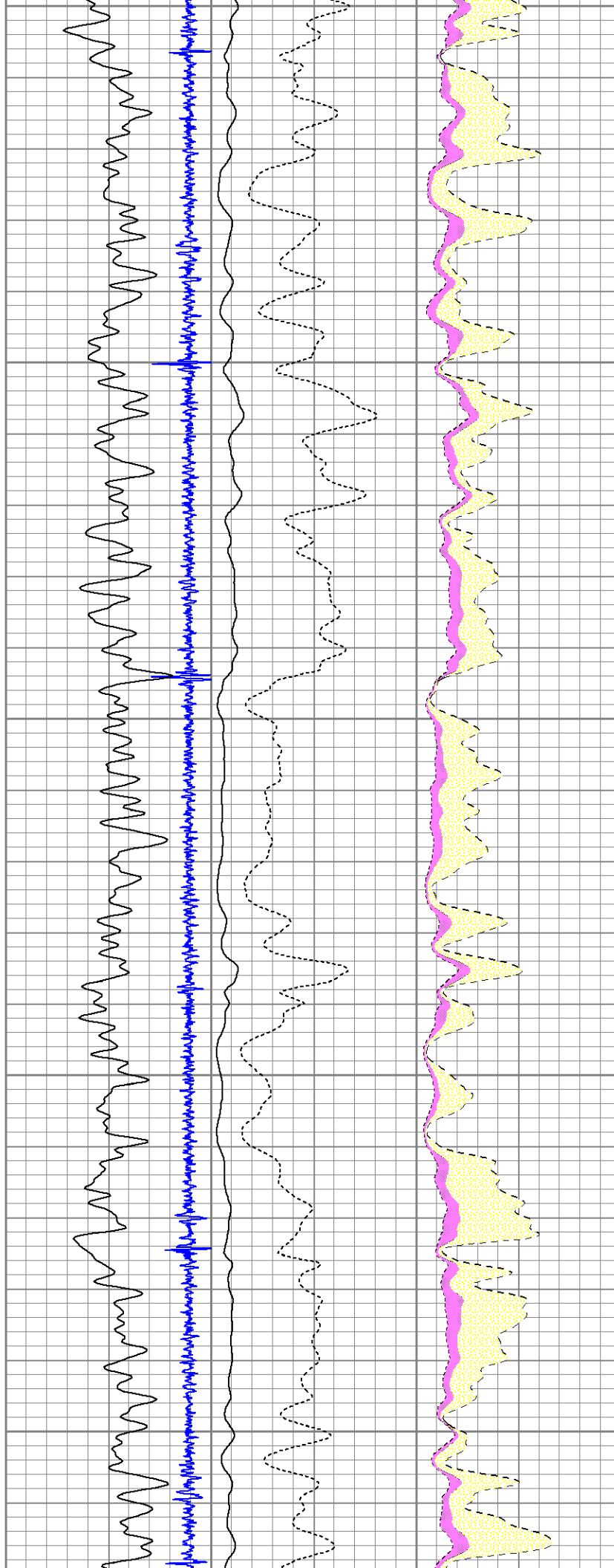
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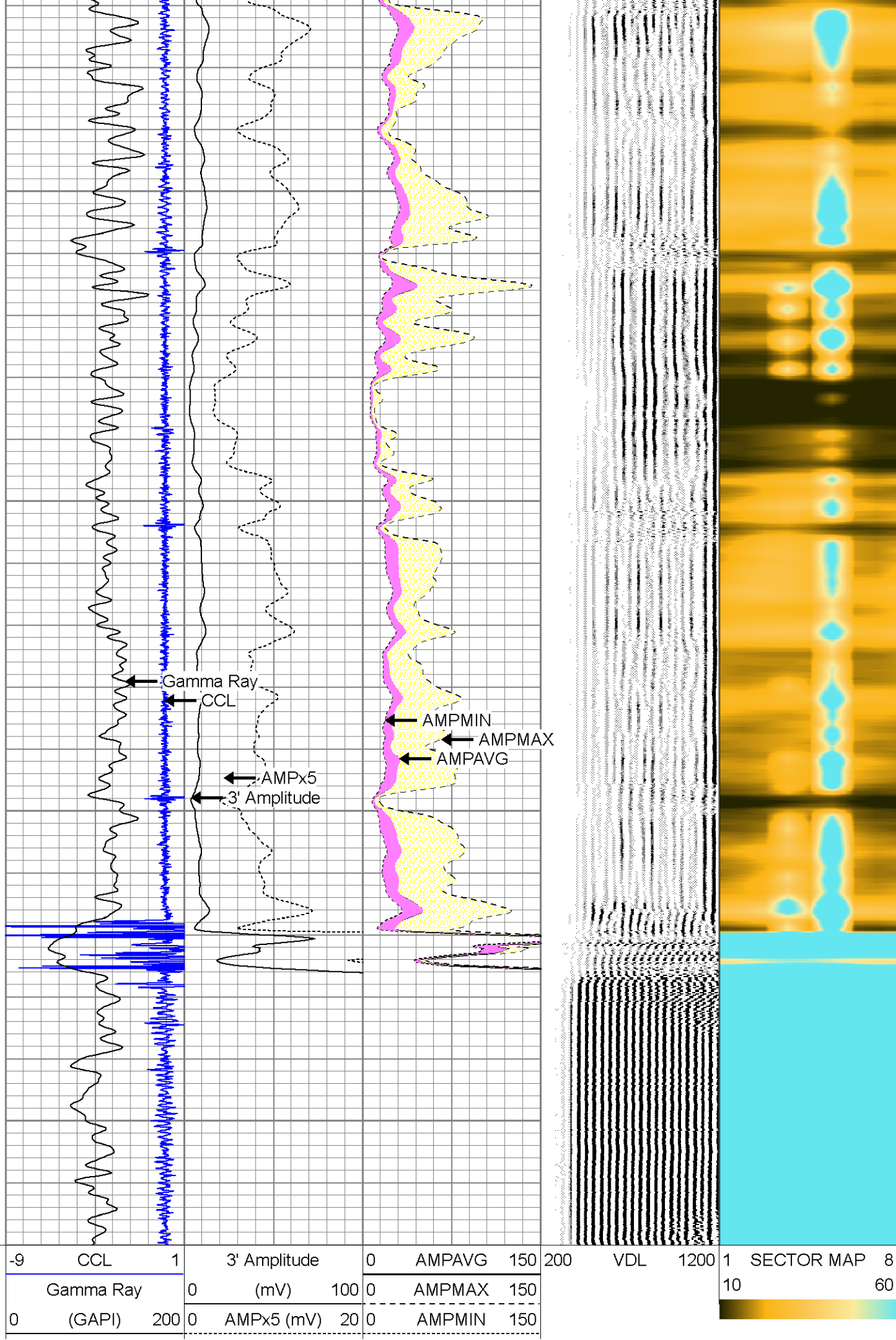
6400

6500



6600

6700





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