



RADIAL BOND LOG
VD/SECTOR MAP
GAMMA/CCL

Pioneer Energy Services

Company ANADARKO PETROLEUM CO.

Well DOUTHIT 40N-27HZ

Field WATTENBERG

County WELD State COLORADO

Location: API # : 05-123-39588

SEC 27 TWP 3N RGE 68W
1718' FSL & 416' FEL
NESE

Permanent Datum GL
Log Measured From KB
Drilling Measured From KB 16'

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

Company ANADARKO PETROLEUM CO.
Well DOUTHIT 40N-27HZ
Field WATTENBERG
County WELD
State COLORADO

Date 23-NOV-2014

Run Number	ONE
Depth Driller	UNK
Depth Logger	6620'
Bottom Logged Interval	6620'
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	SURFACE
Time Well Ready	11:00
Time Logger on Bottom	11:30
Equipment Number	75
Location	FORT MORGAN
Recorded By	TIM REESE
Witnessed By	TREVOR D.

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"	36 #	SURFACE	1245'
Prot. String	7"	26	SURFACE	7567'
Production String	4-1/2"	11.6#	6567'	12750'
Liner				

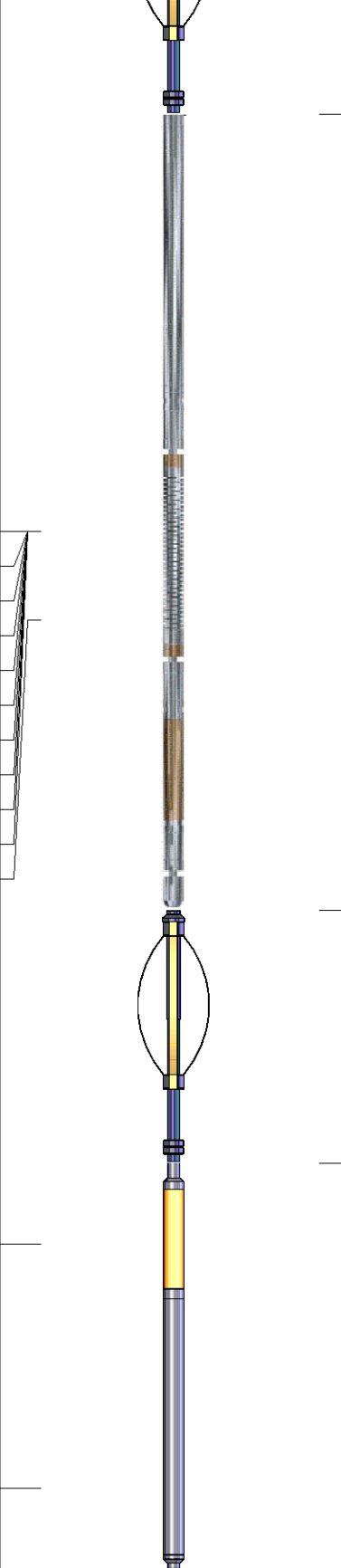
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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on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

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 40n-27hz.db: field/well/run1/pass2 Total Length: 19.13 ft Total Weight: 200.00 lb O.D. 2.75 in						

Calibration Report		
Database File:	douthit 40n-27hz.db	
Dataset Pathname:	pass2	
Dataset Creation:	Sun Nov 23 10:28:03 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: 665.166 ft

Master Calibration, performed Sun Nov 23 10:27:59 2014:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.013	0.473	1.000	62.165	133.163	-0.790
CAL	0.013	0.802				
5'	0.013	0.468	1.000	62.165	134.612	-0.801
SUM						
S1	0.014	0.646	0.000	100.000	158.077	-2.192
S2	0.014	0.721	0.000	100.000	141.432	-1.930
S3	0.014	1.608	0.000	100.000	62.724	-0.864
S4	0.014	0.545	0.000	100.000	188.175	-2.547
S5	0.014	0.583	0.000	100.000	175.688	-2.383
S6	0.014	1.214	0.000	100.000	83.311	-1.158
S7	0.014	0.515	0.000	100.000	199.358	-2.718
S8	0.014	0.499	0.000	100.000	206.187	-2.839

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

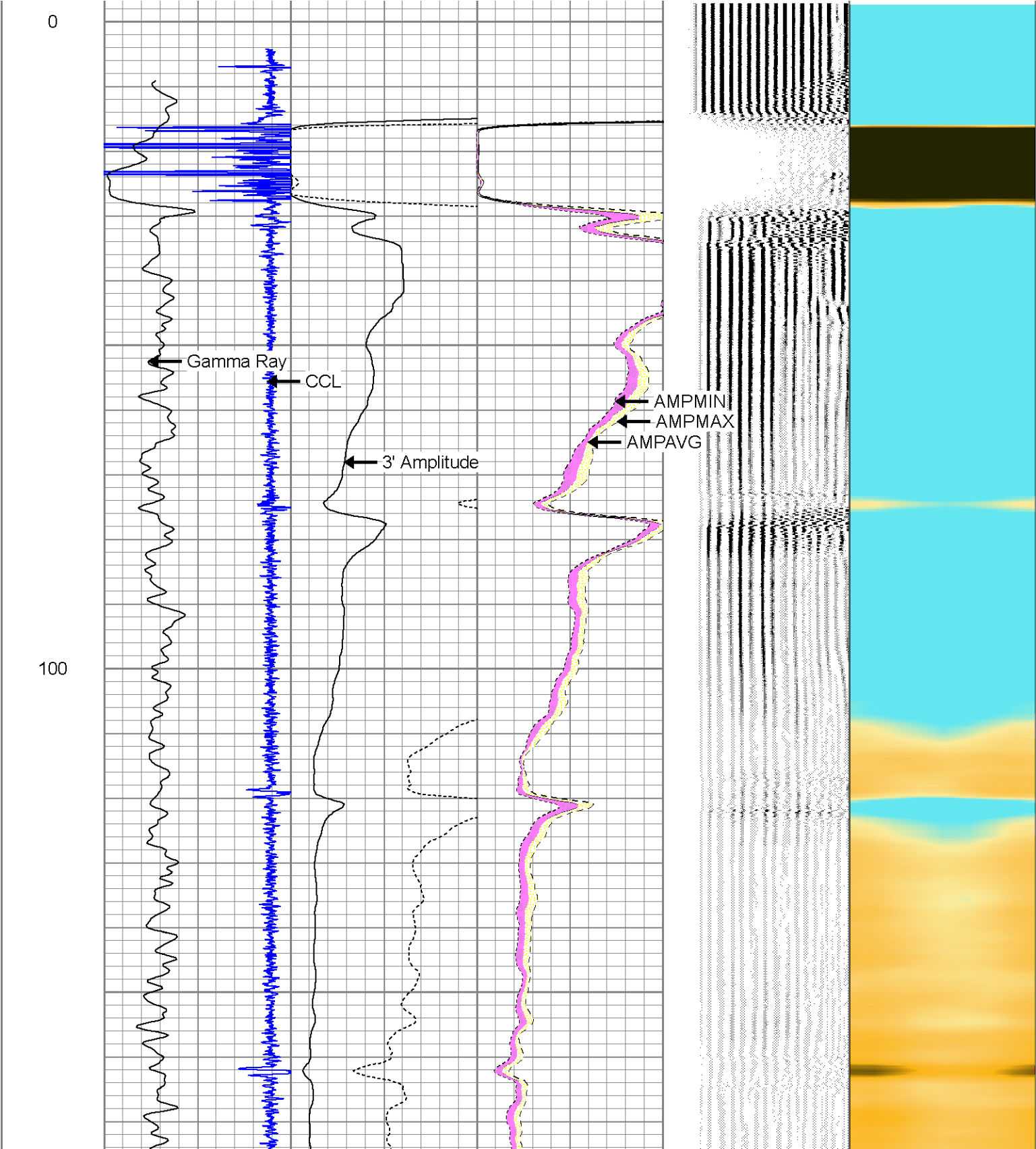
	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.013	0.802	1.000	0.000

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

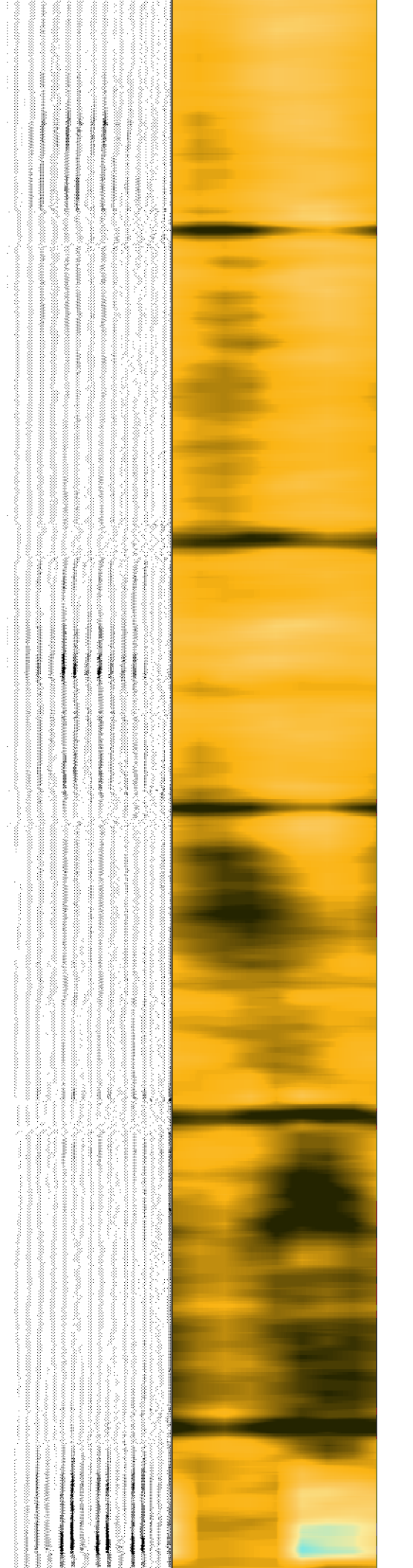
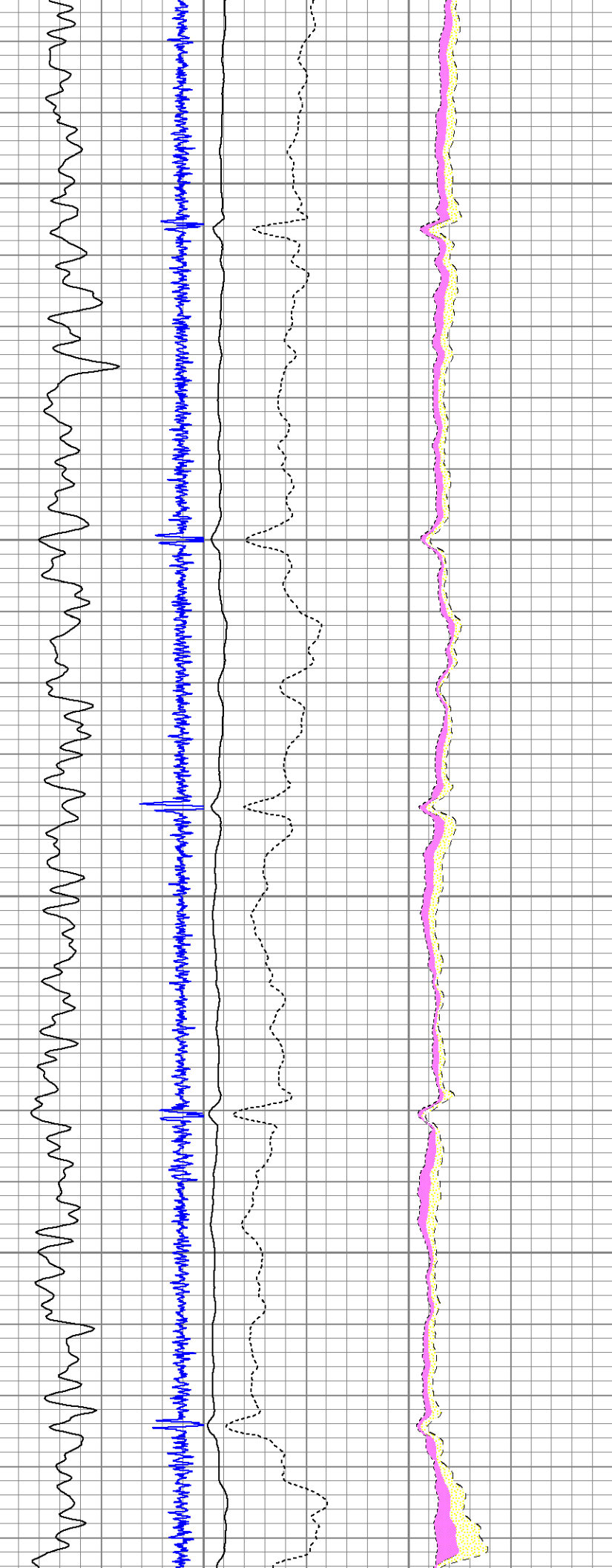
Database File: douthit 40n-27hz.db
Dataset Pathname: pass6.4
Presentation Format: scbl02
Dataset Creation: Sun Nov 23 12:24:36 2014 by Calc 7.0 B1
Charted by: Depth in Feet scaled 1:240

	-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				



200

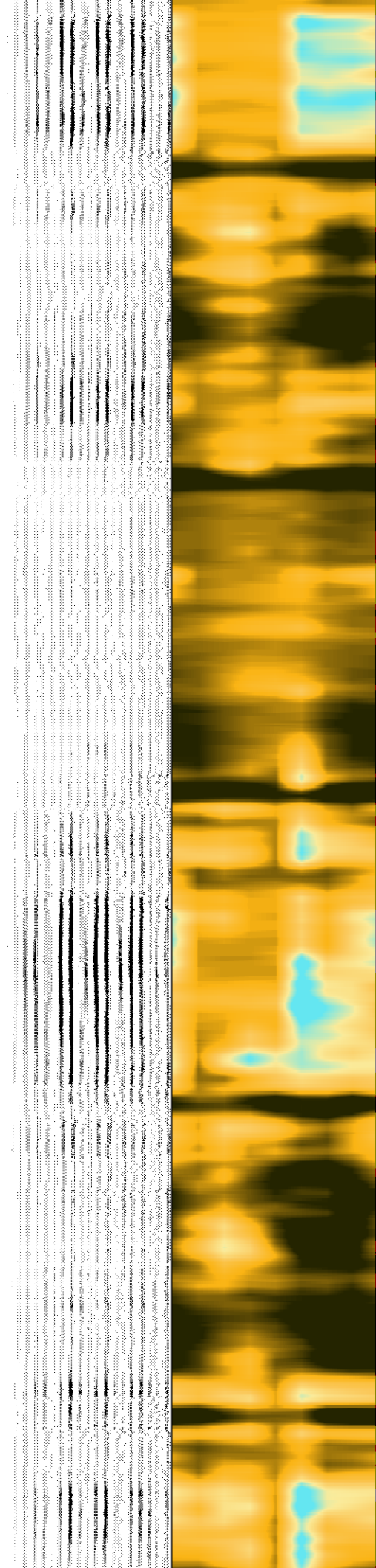
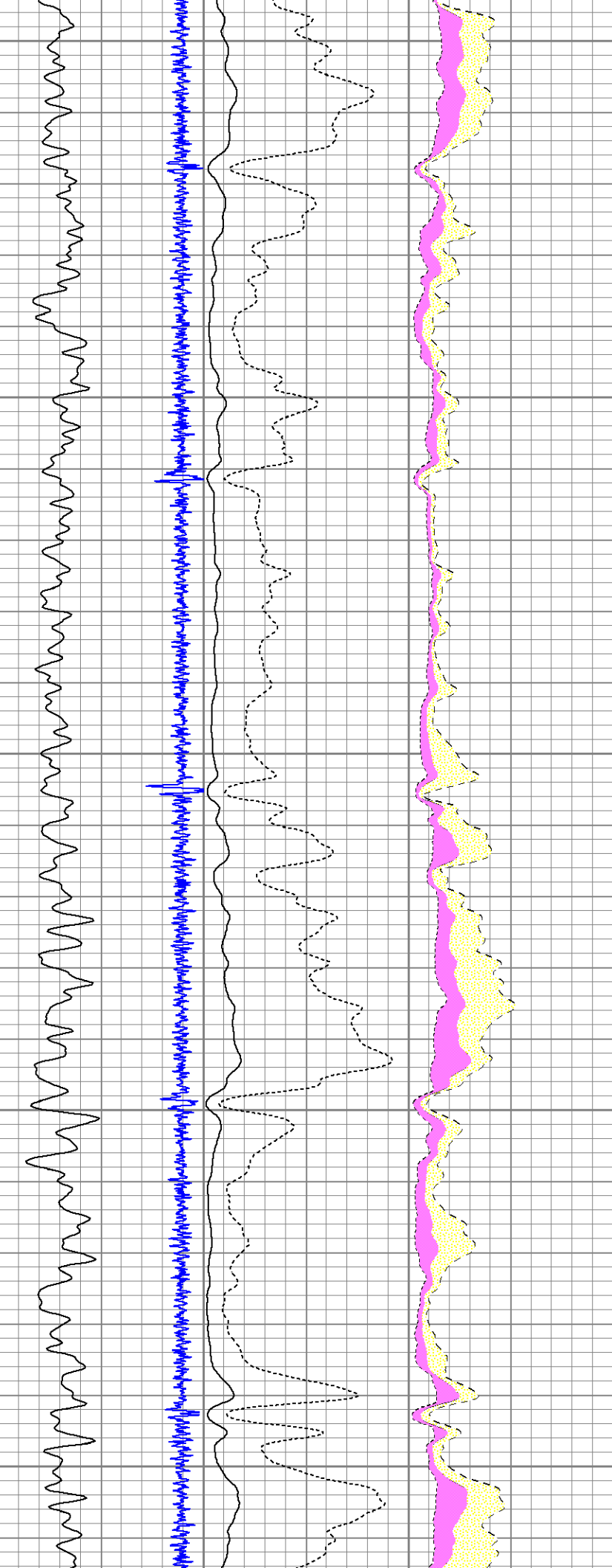
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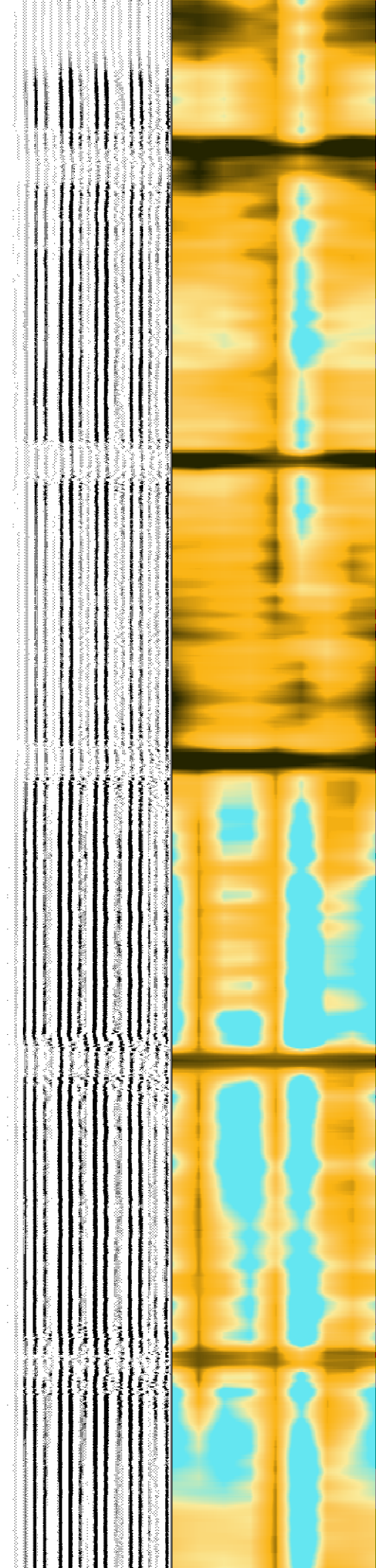
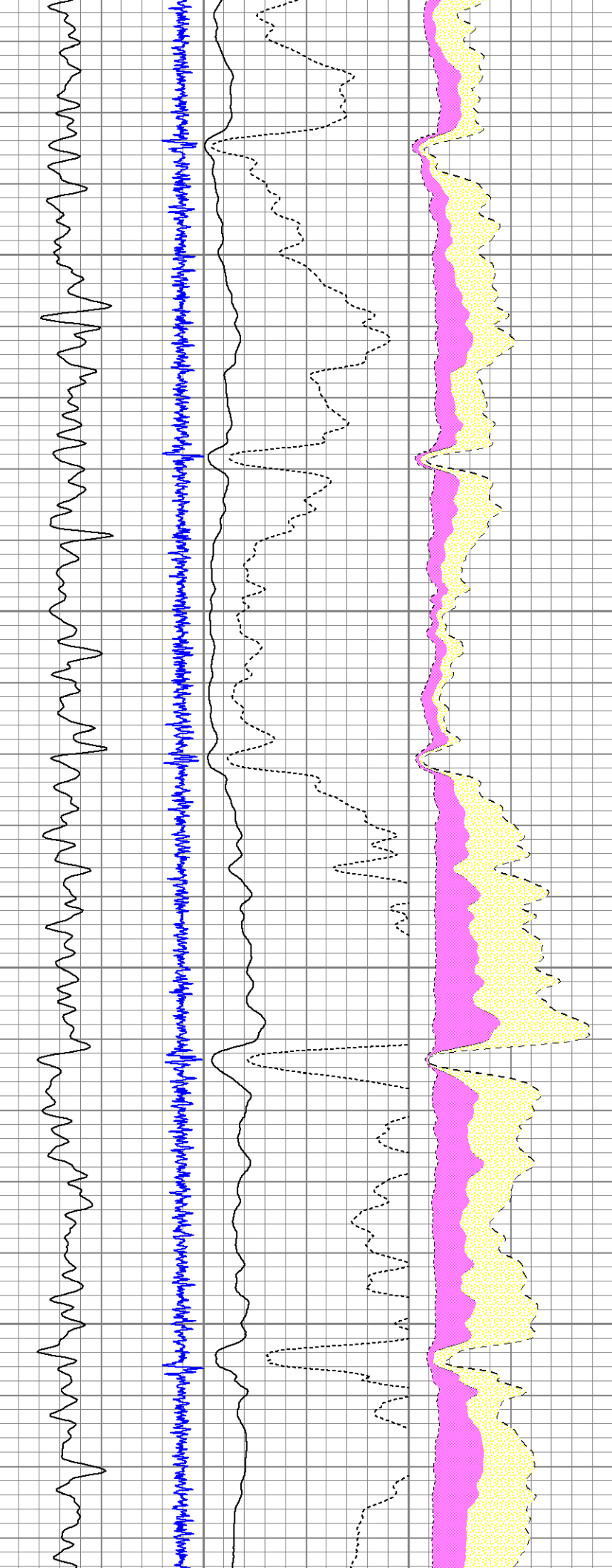
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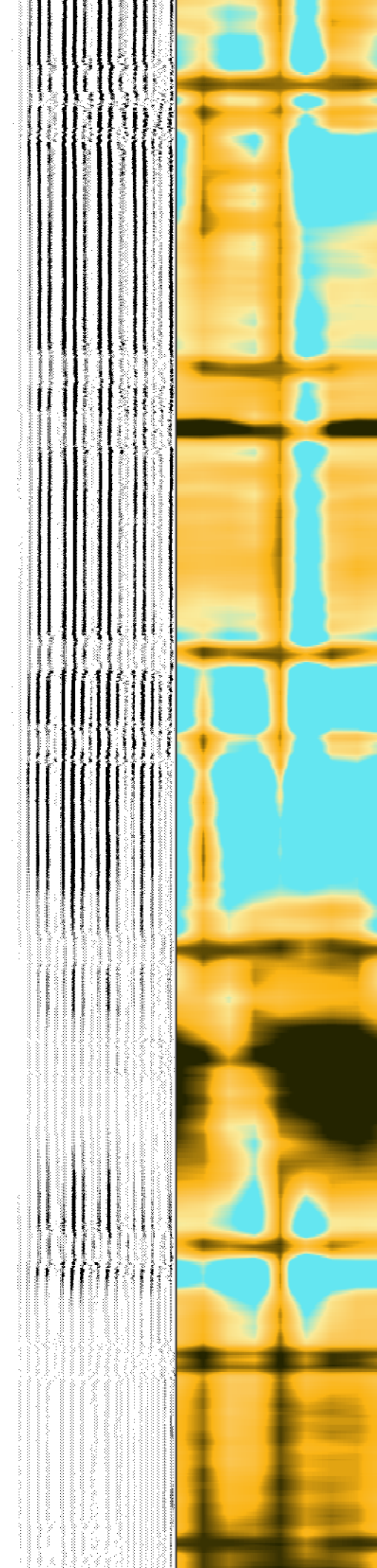
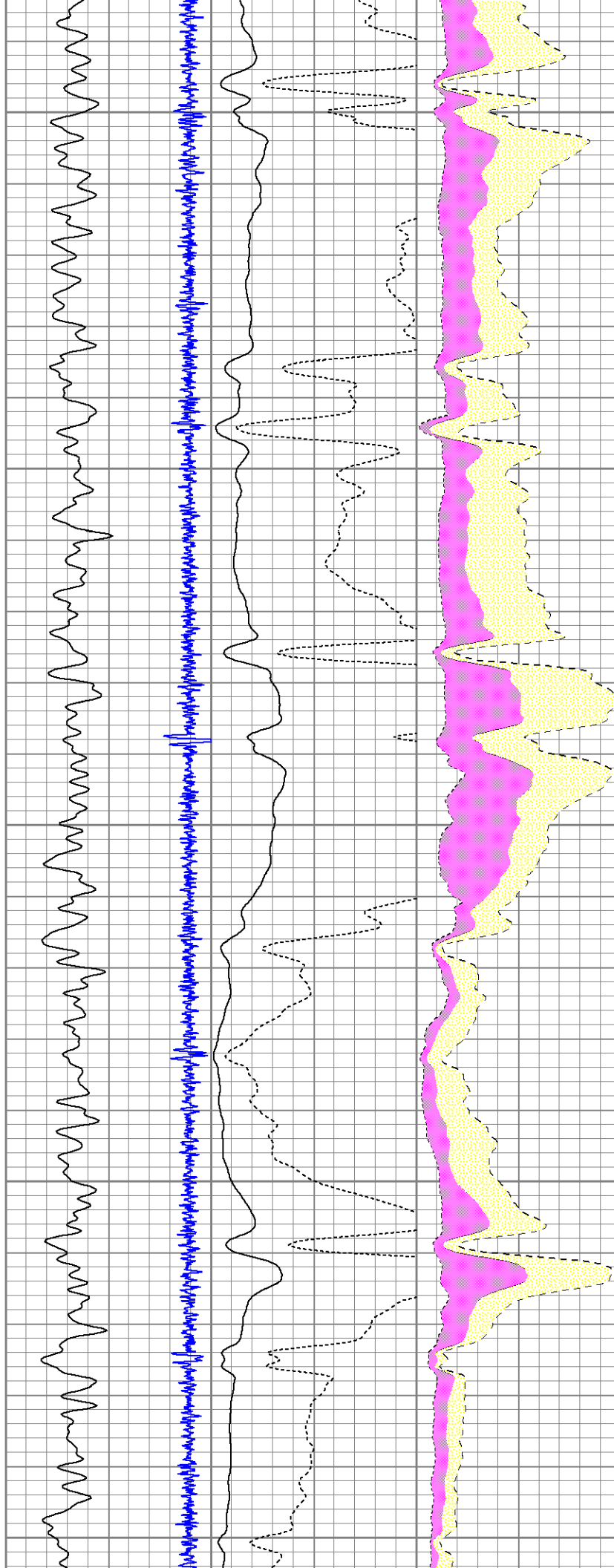
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800



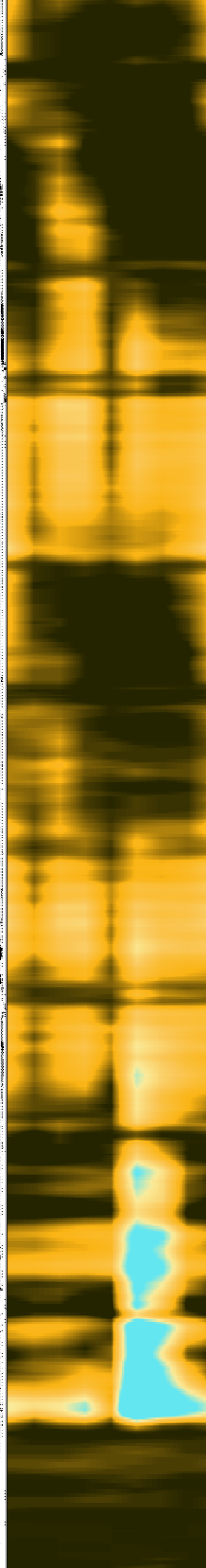
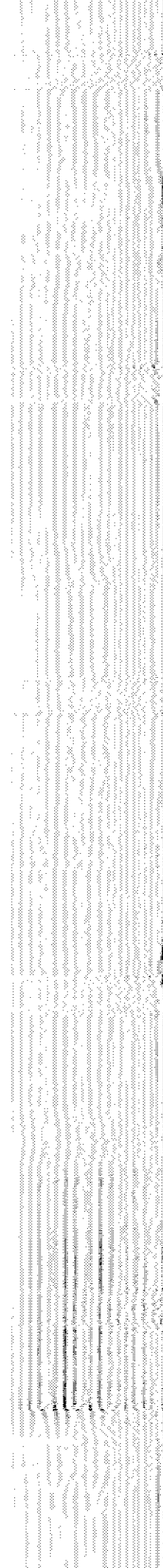
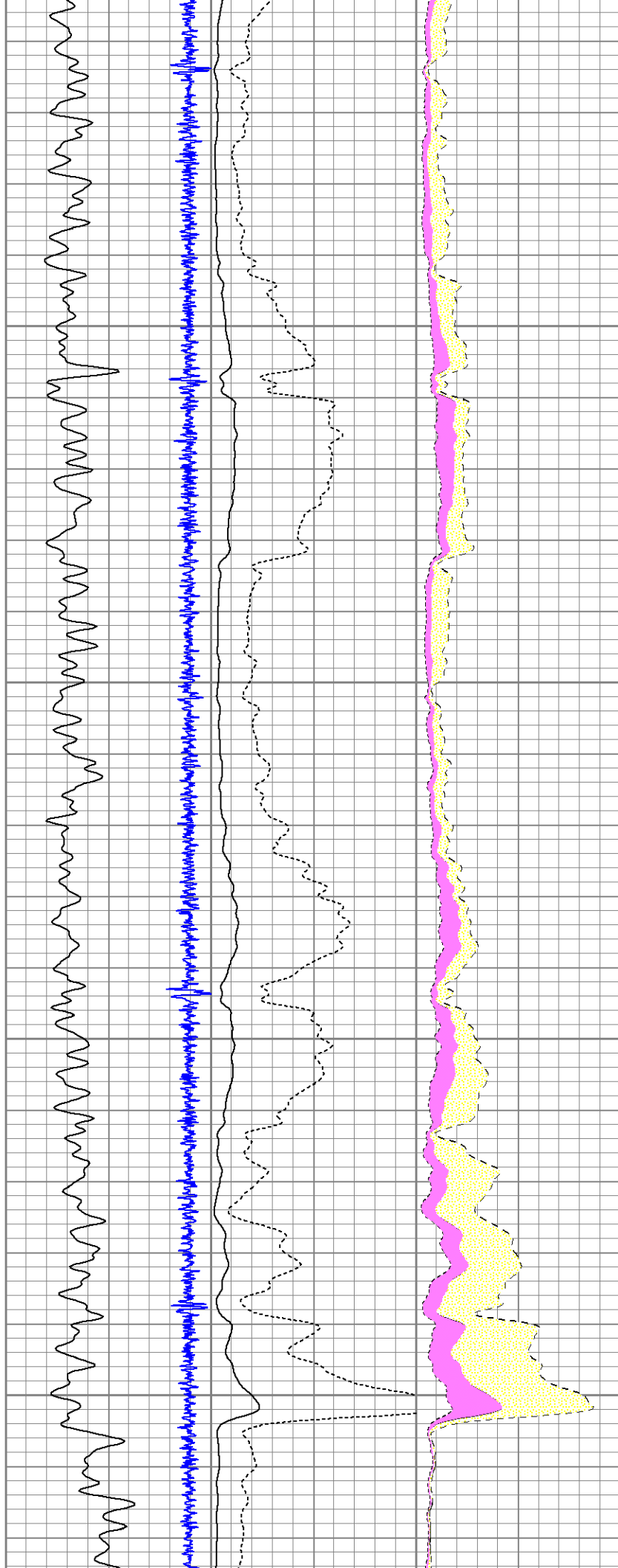
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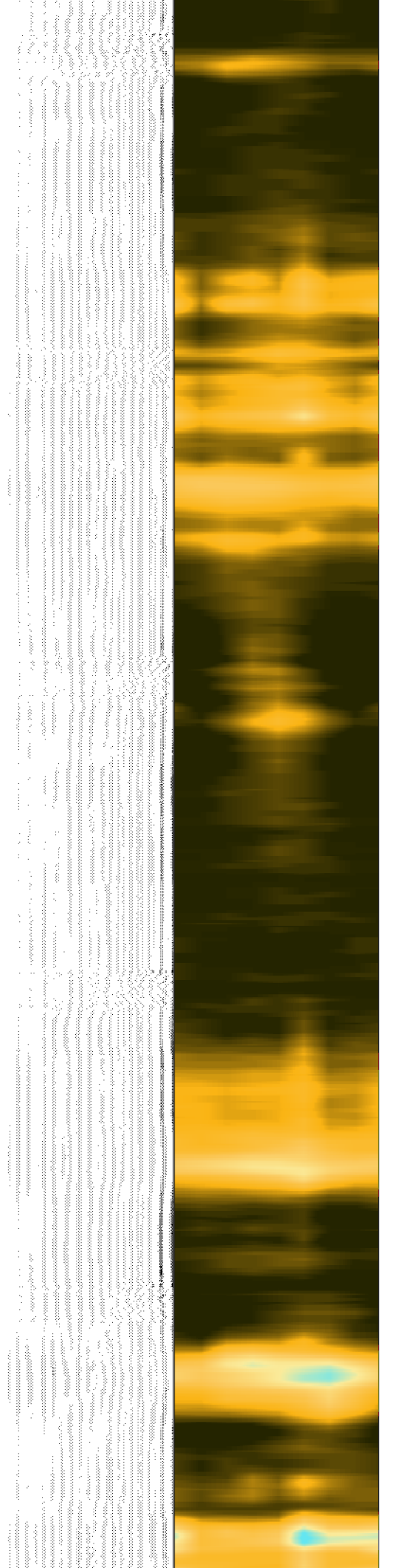
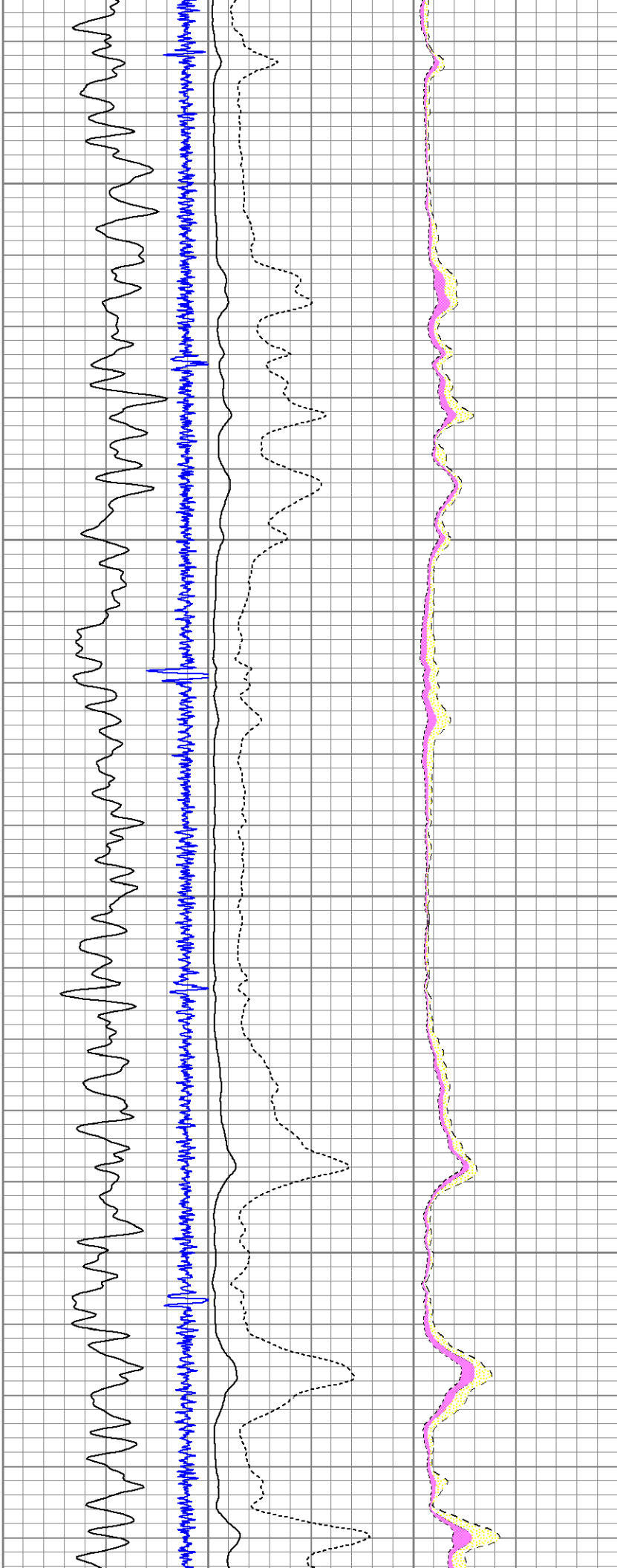
1100

1200



1300

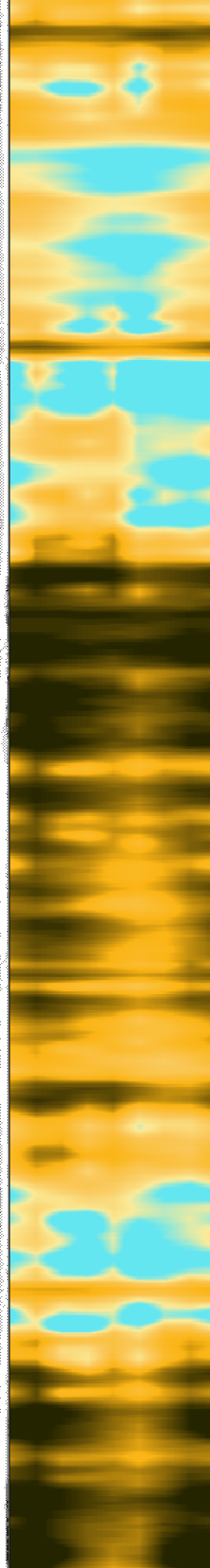
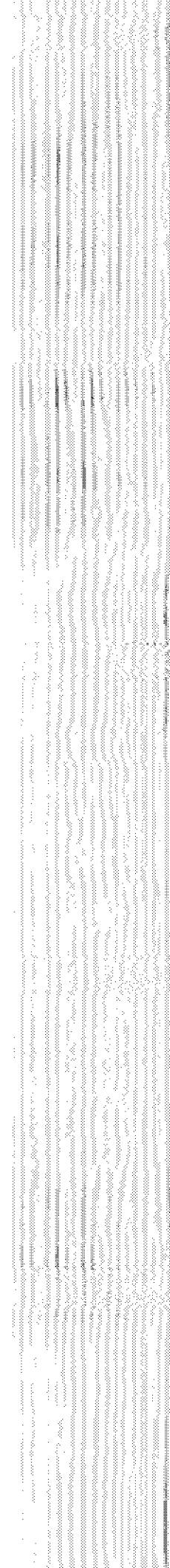
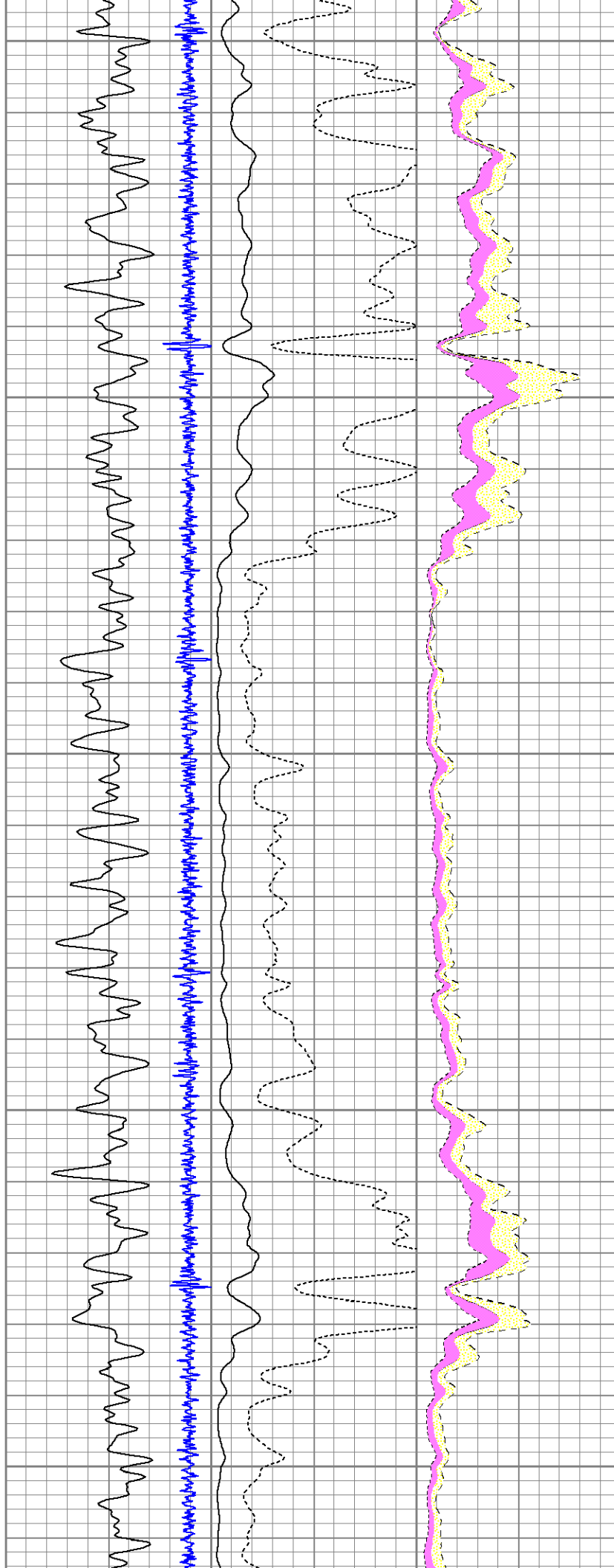
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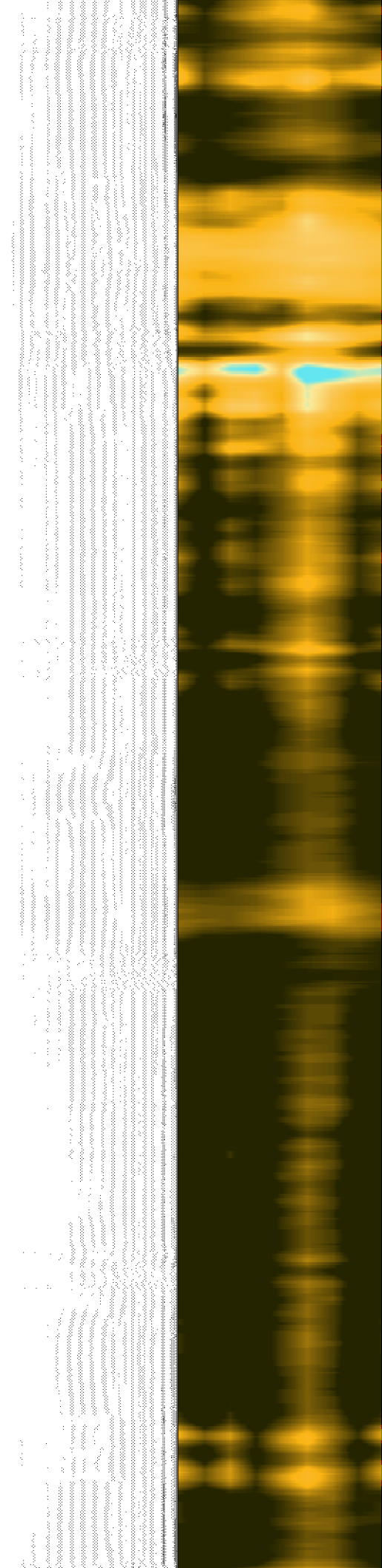
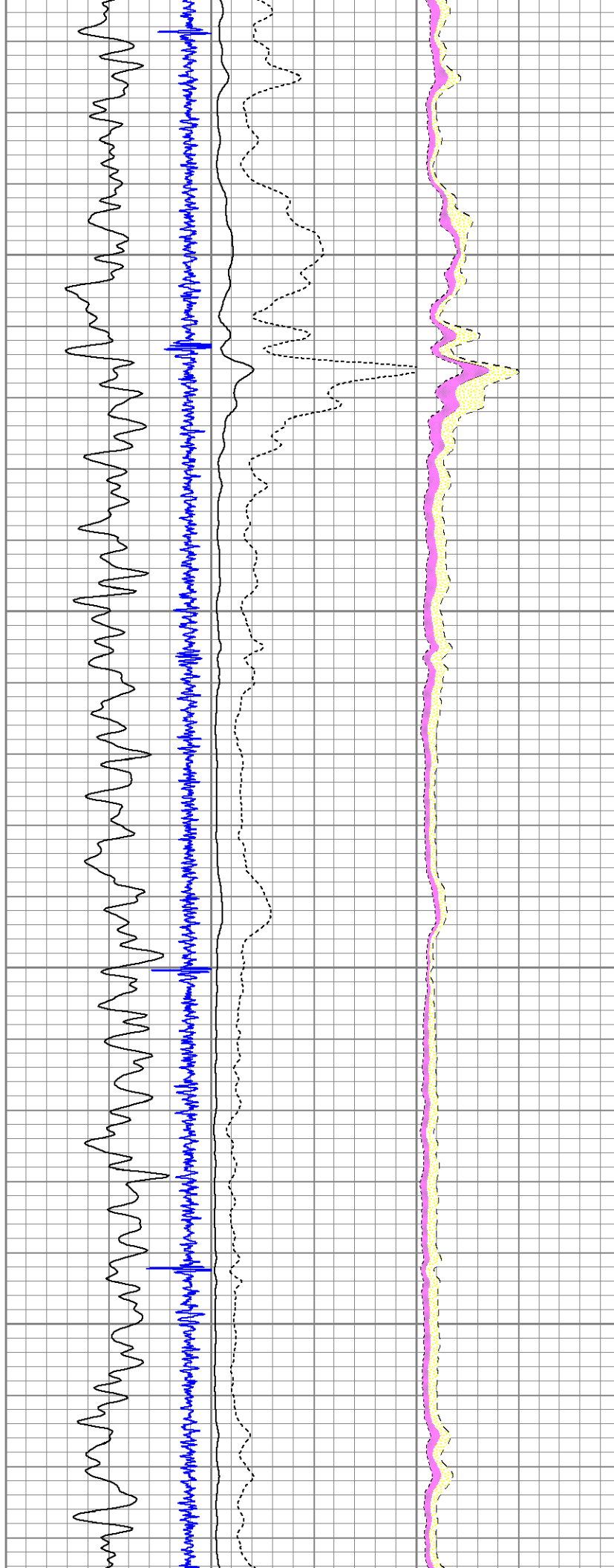
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1700



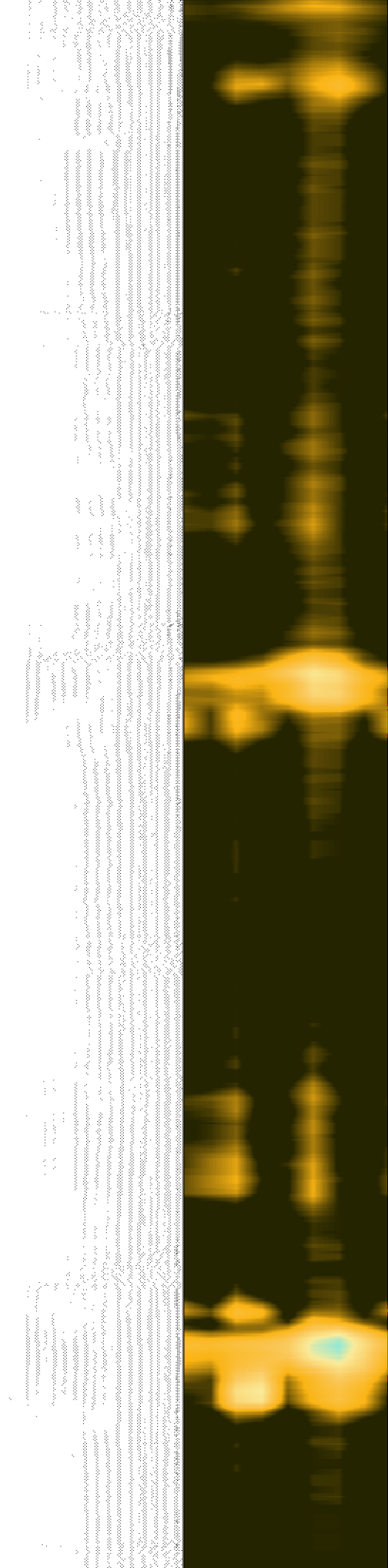
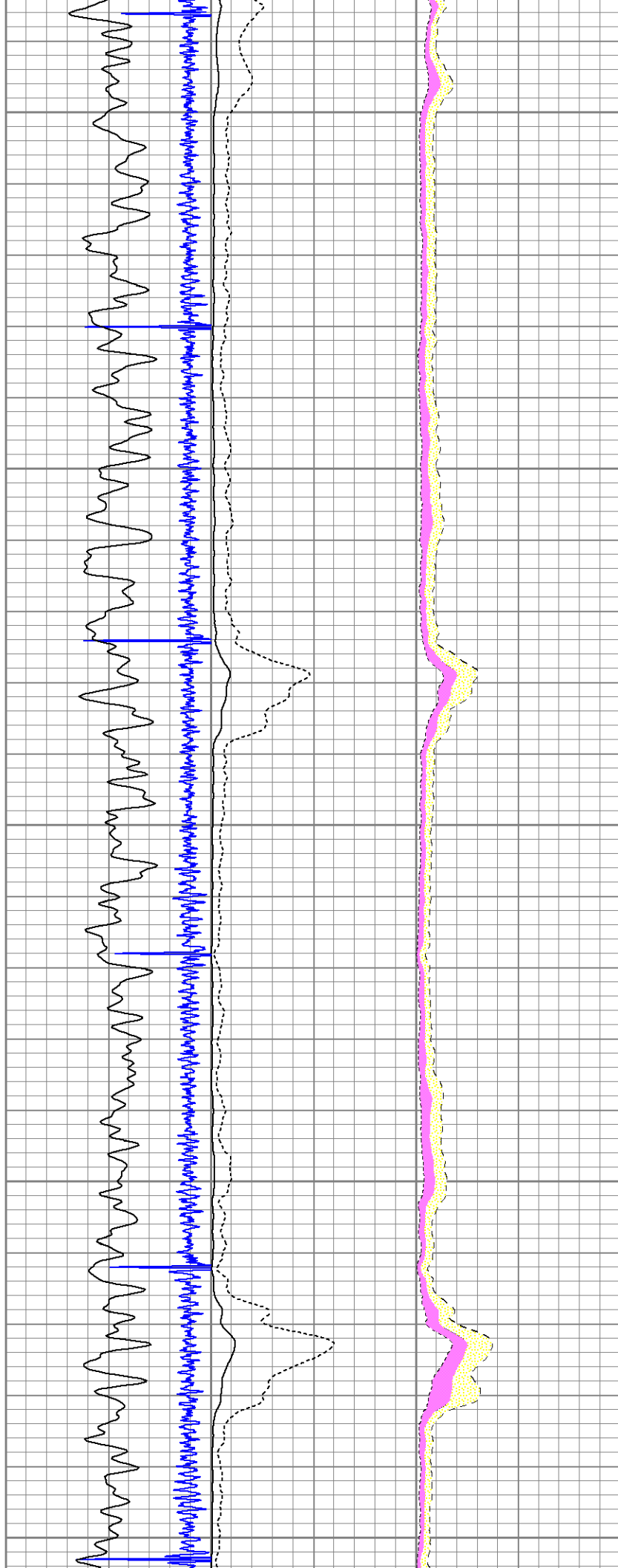
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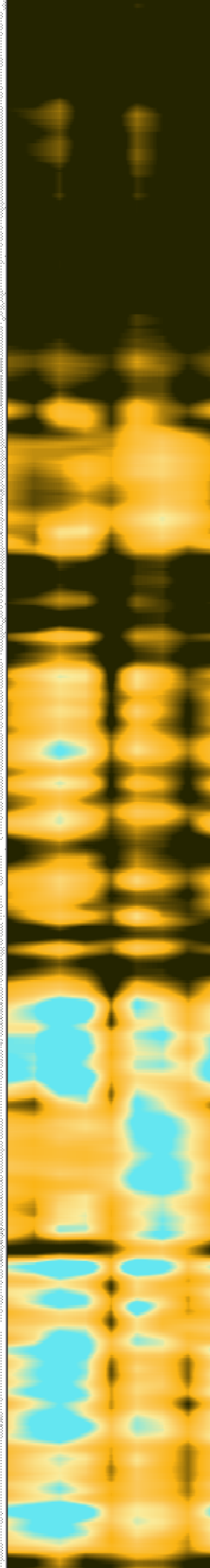
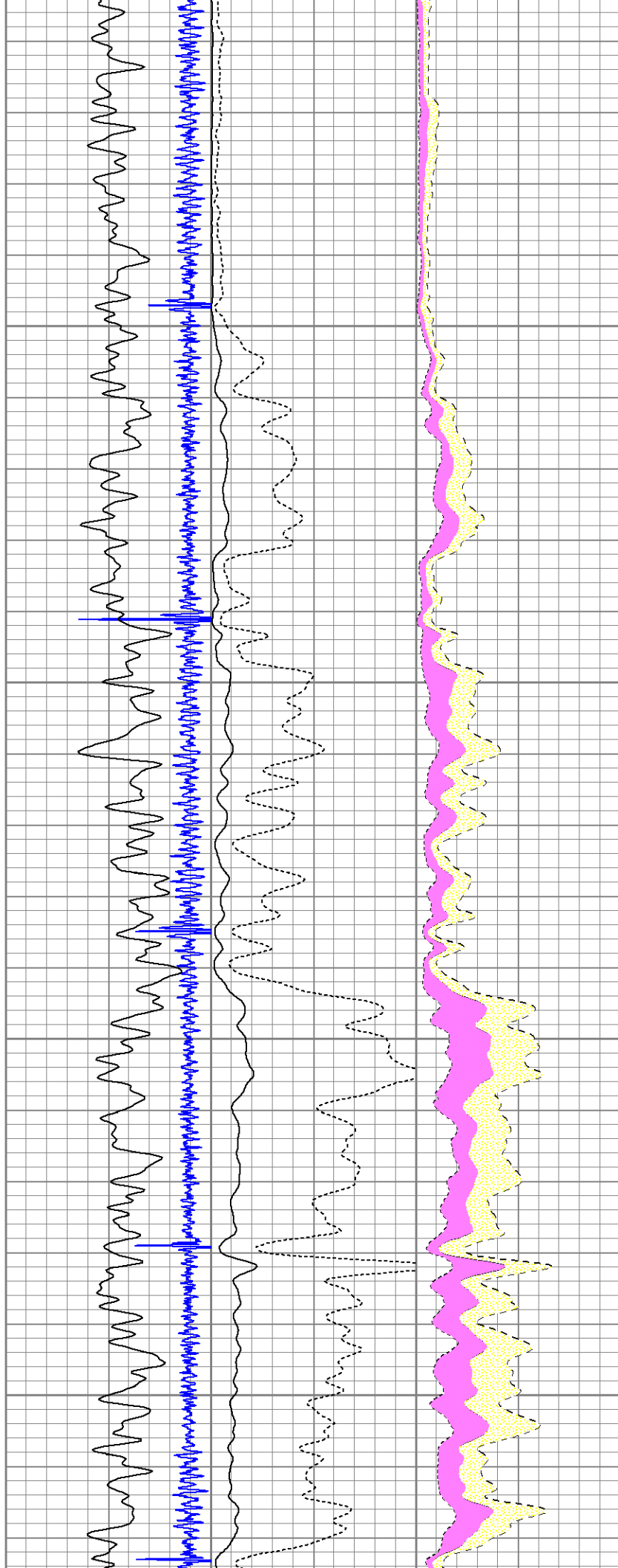
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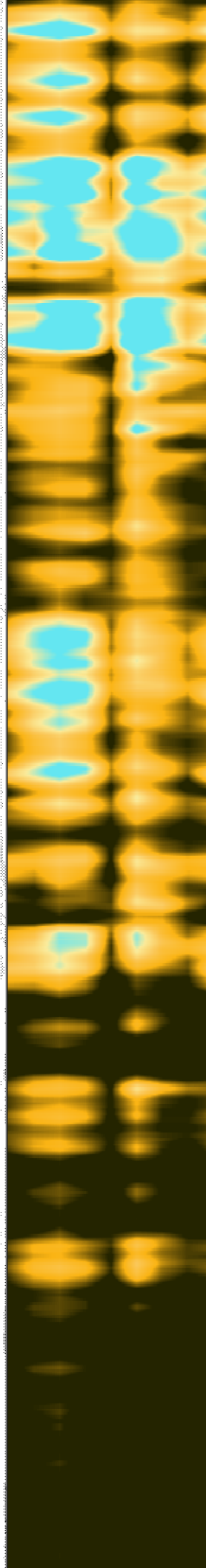
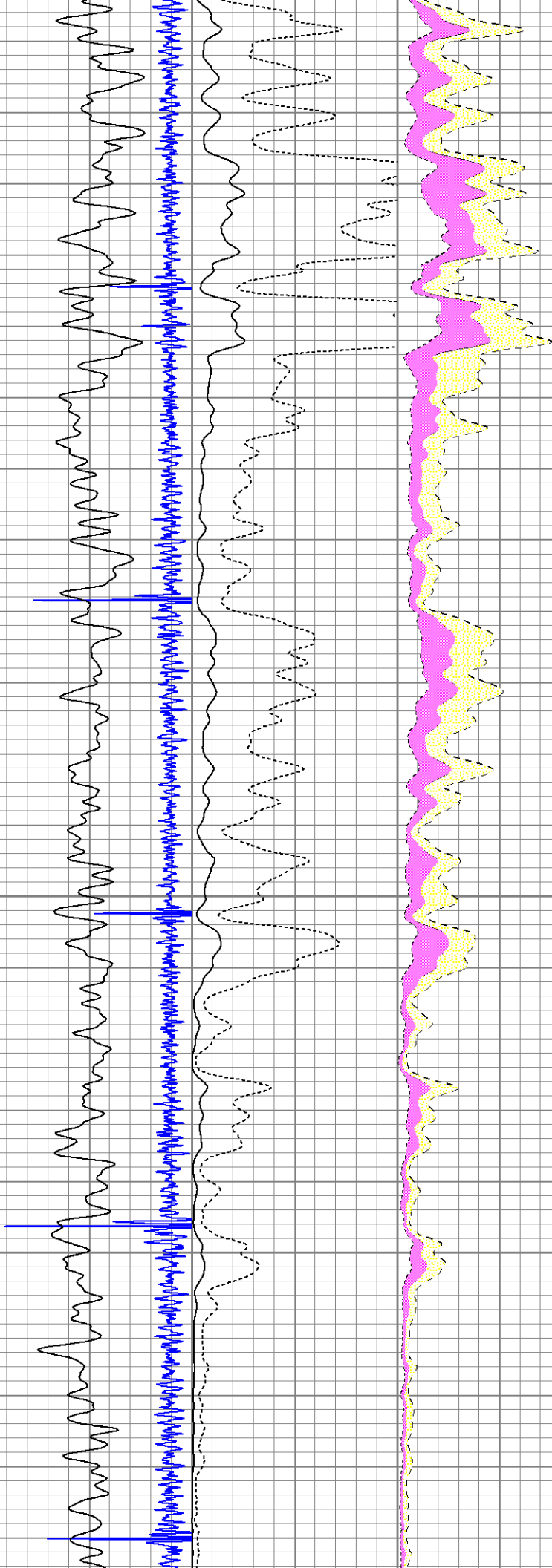
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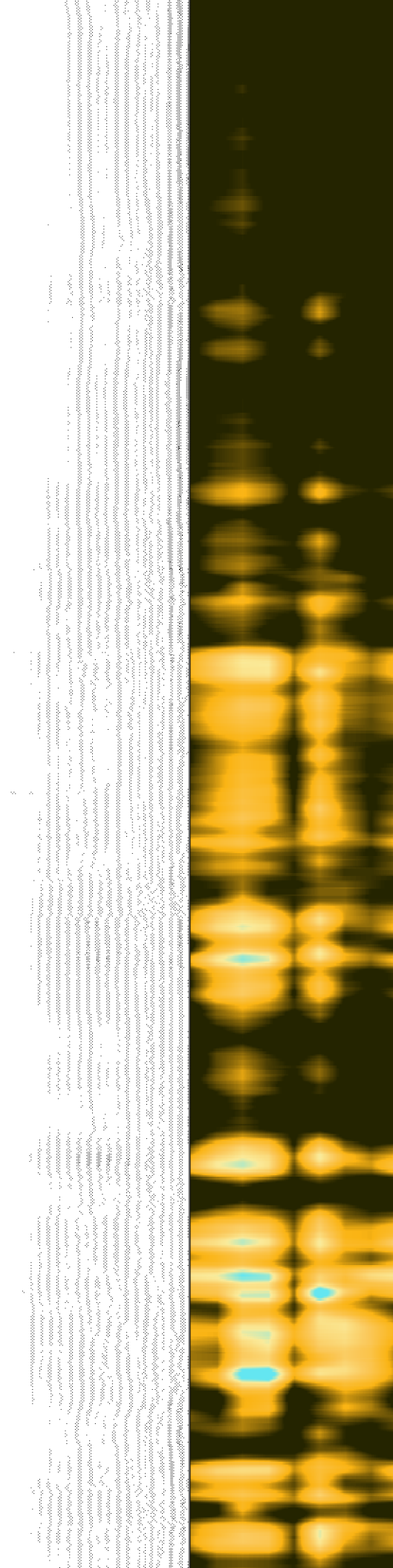
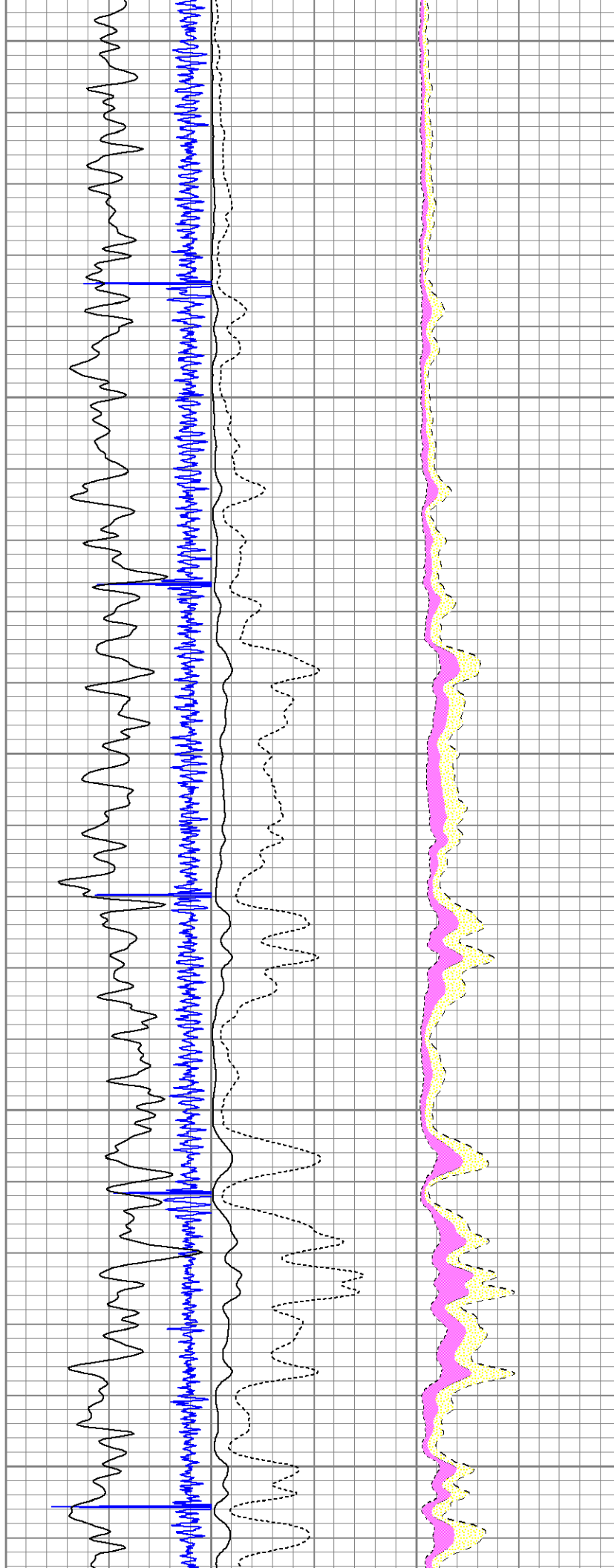
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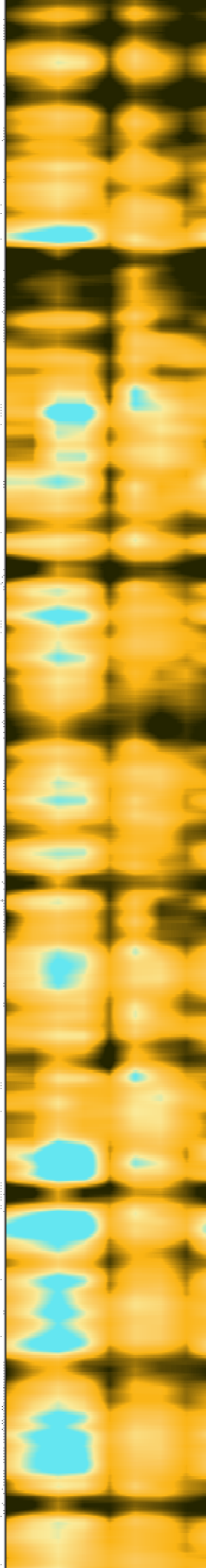
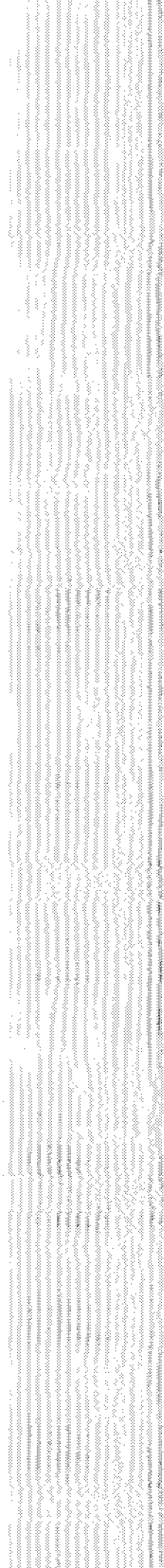
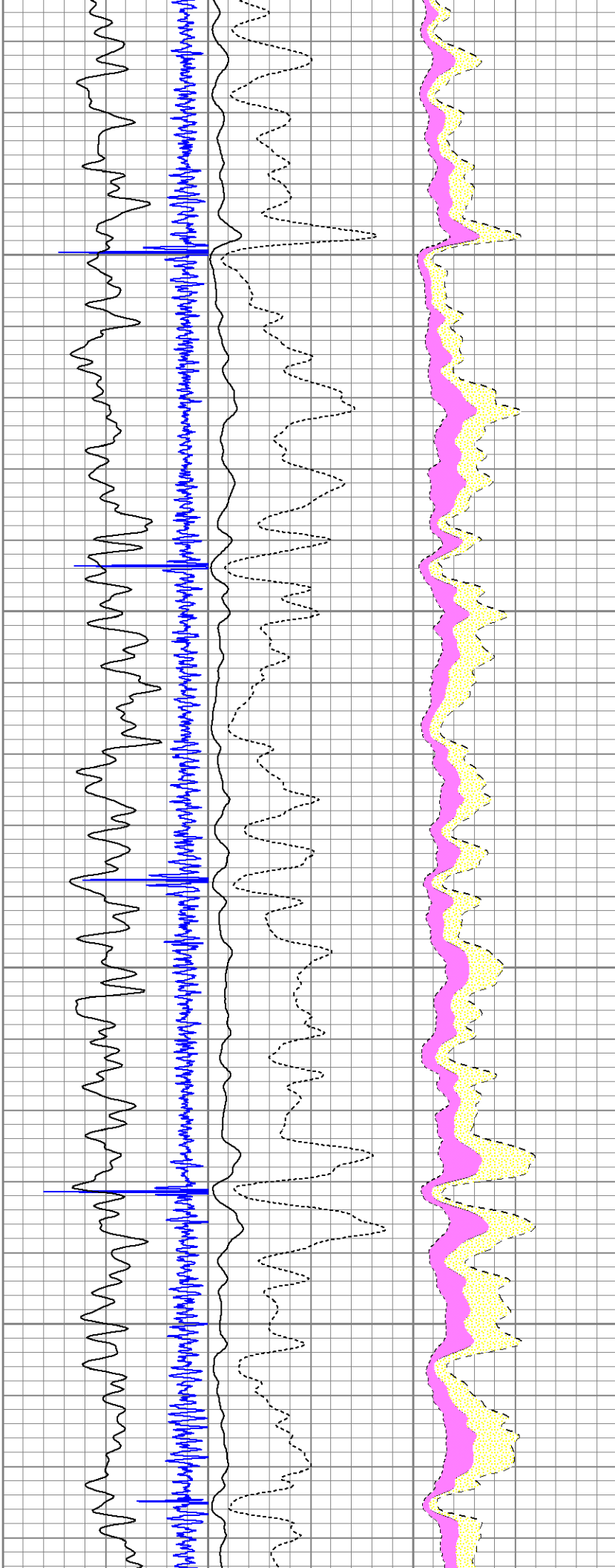
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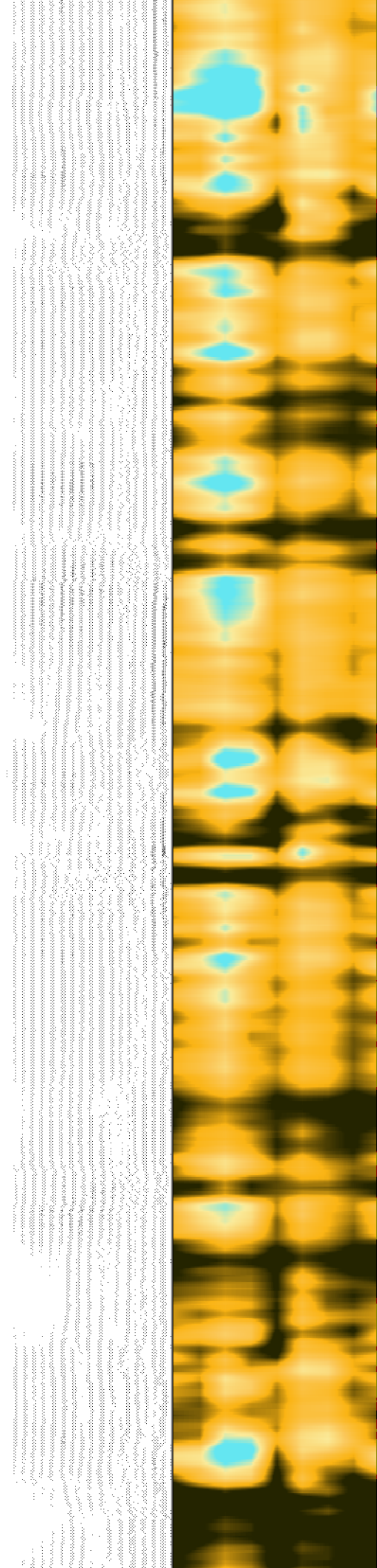
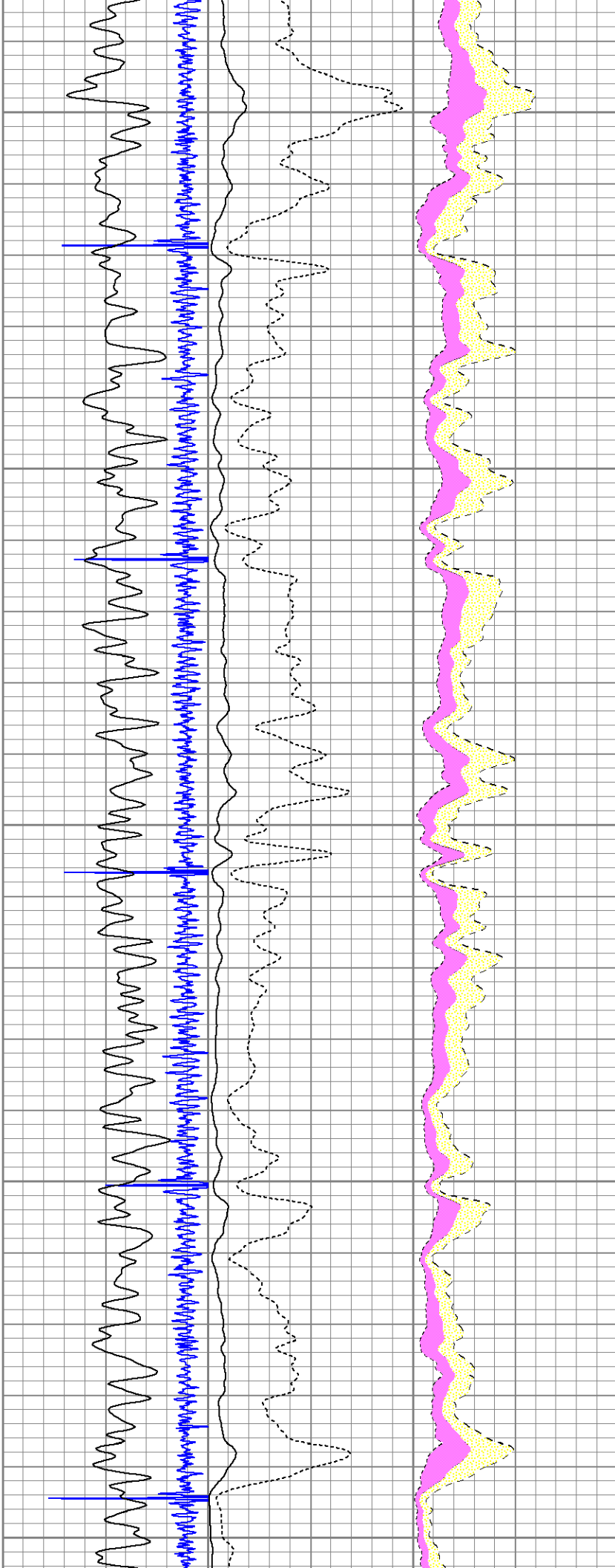
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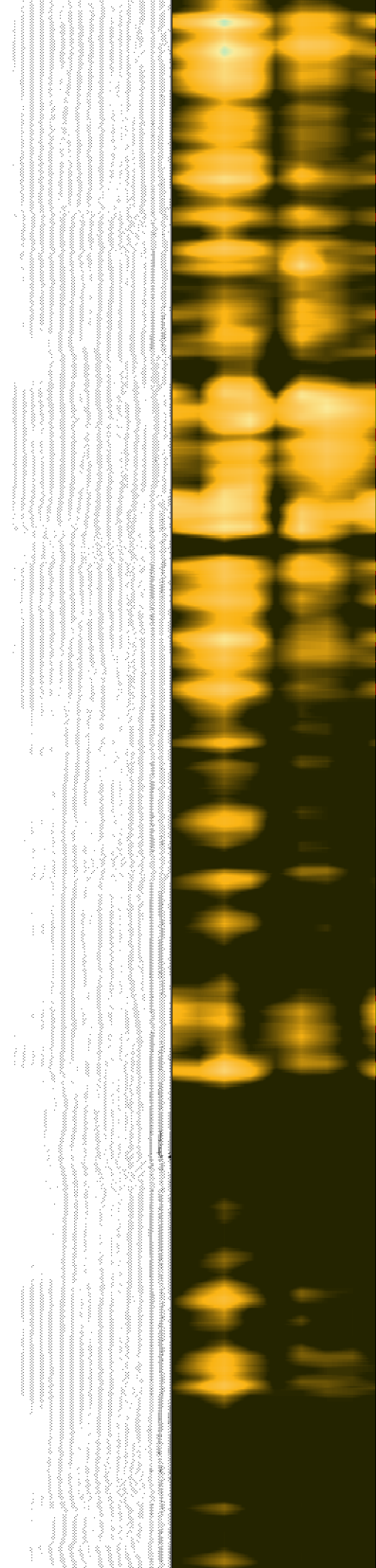
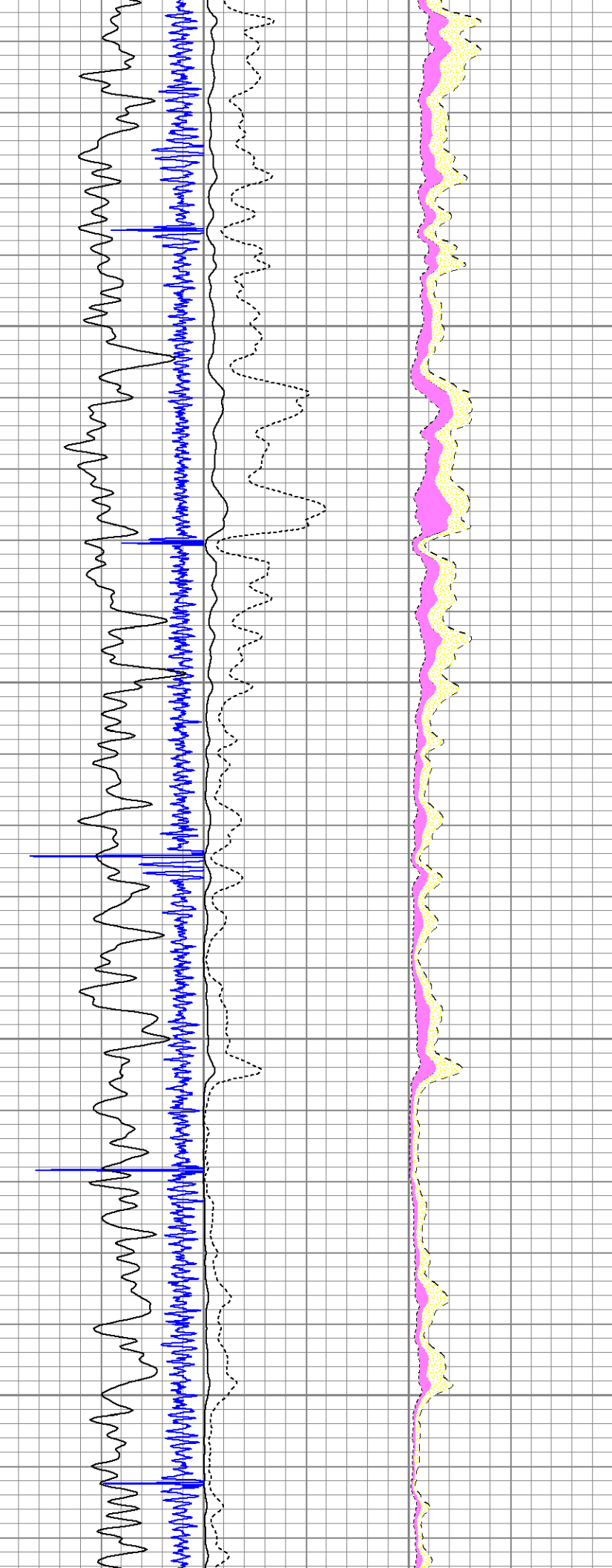
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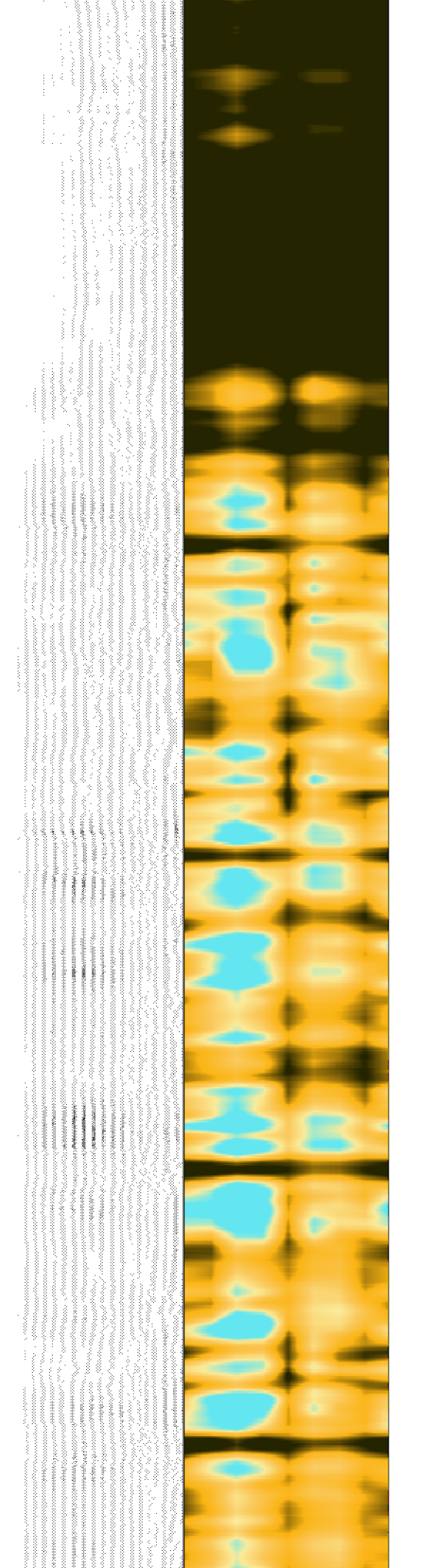
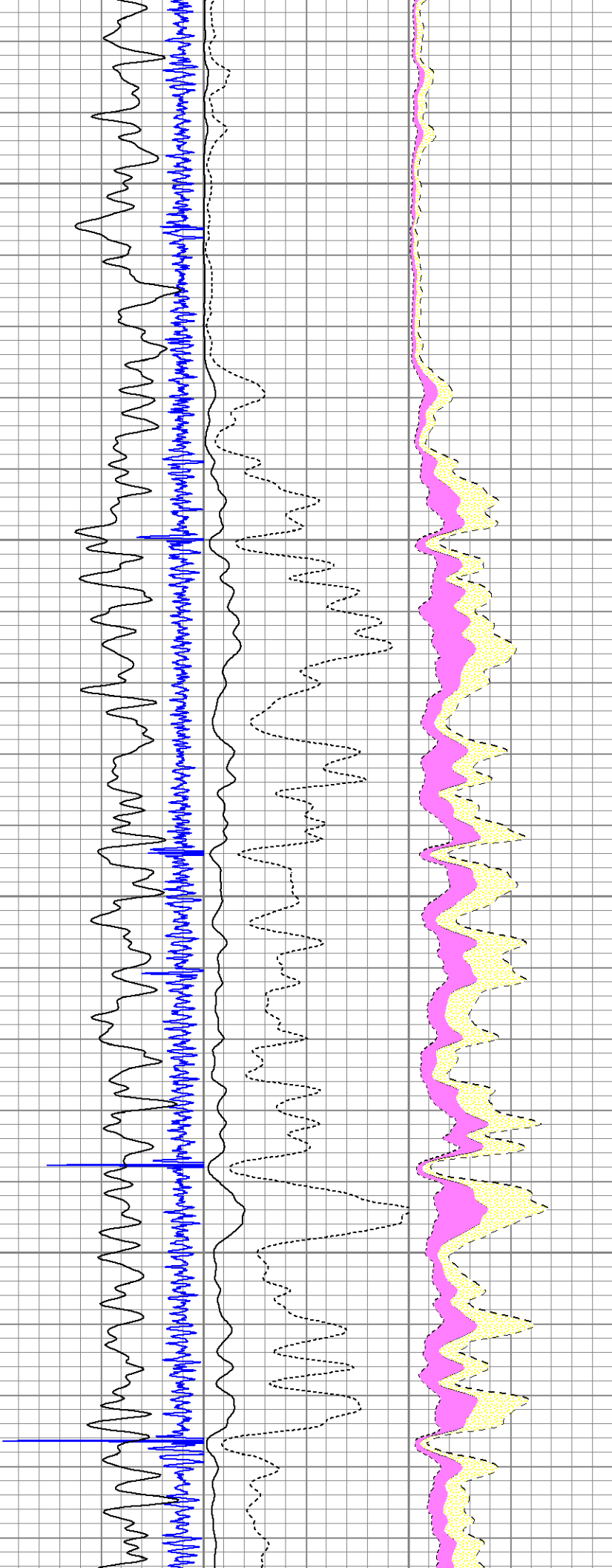
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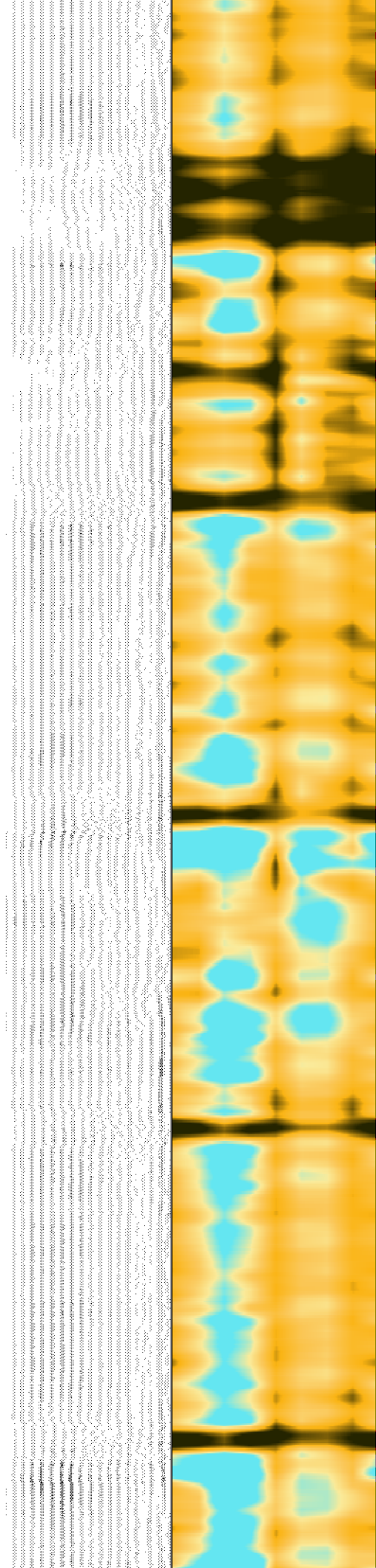
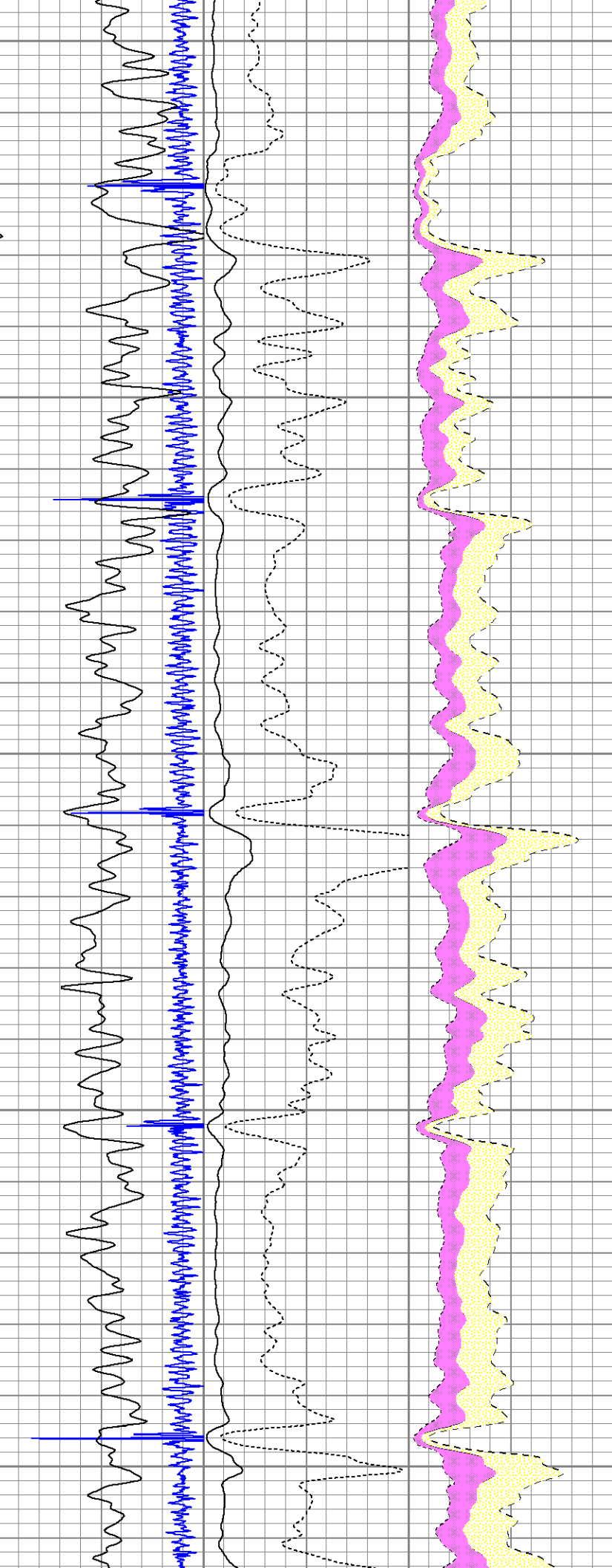
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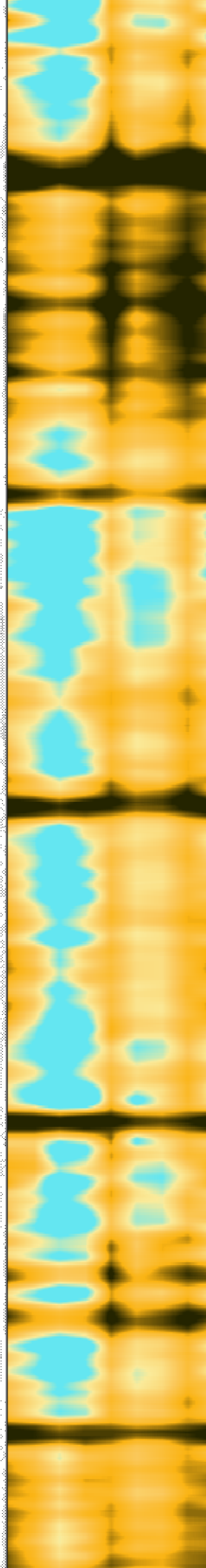
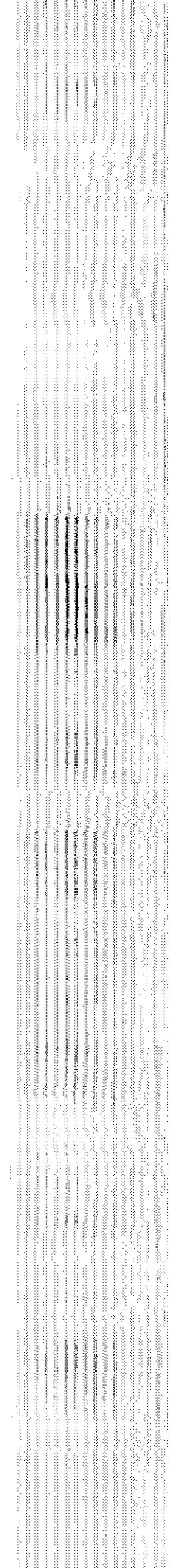
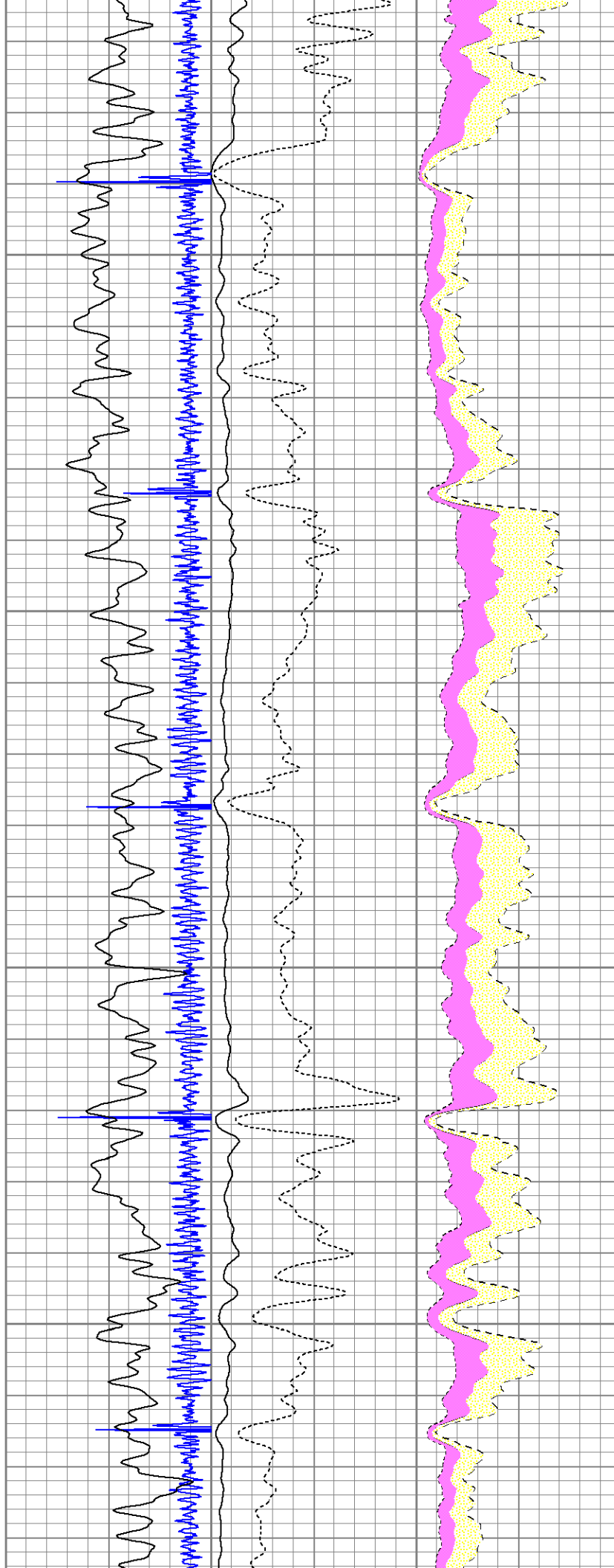
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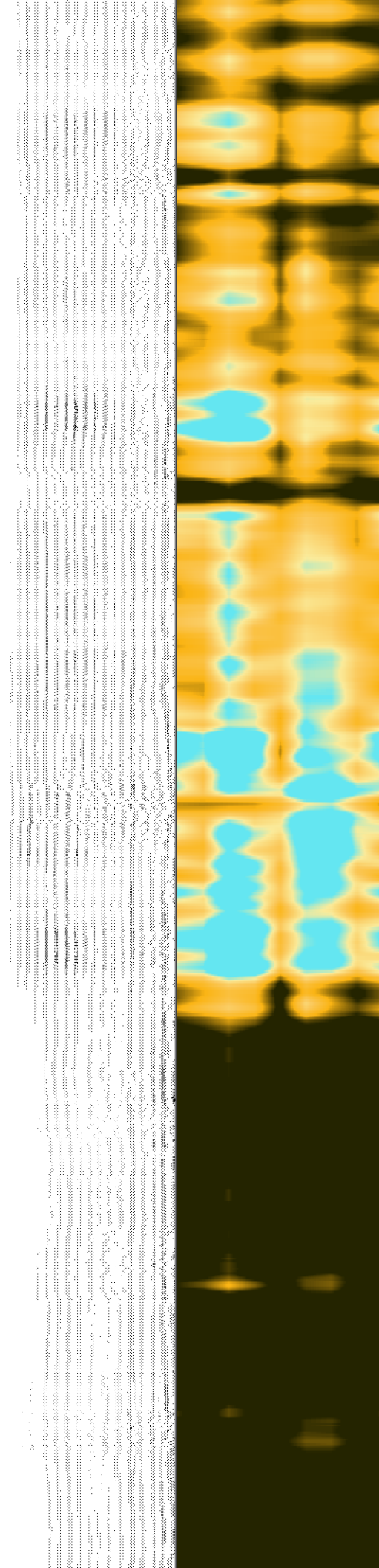
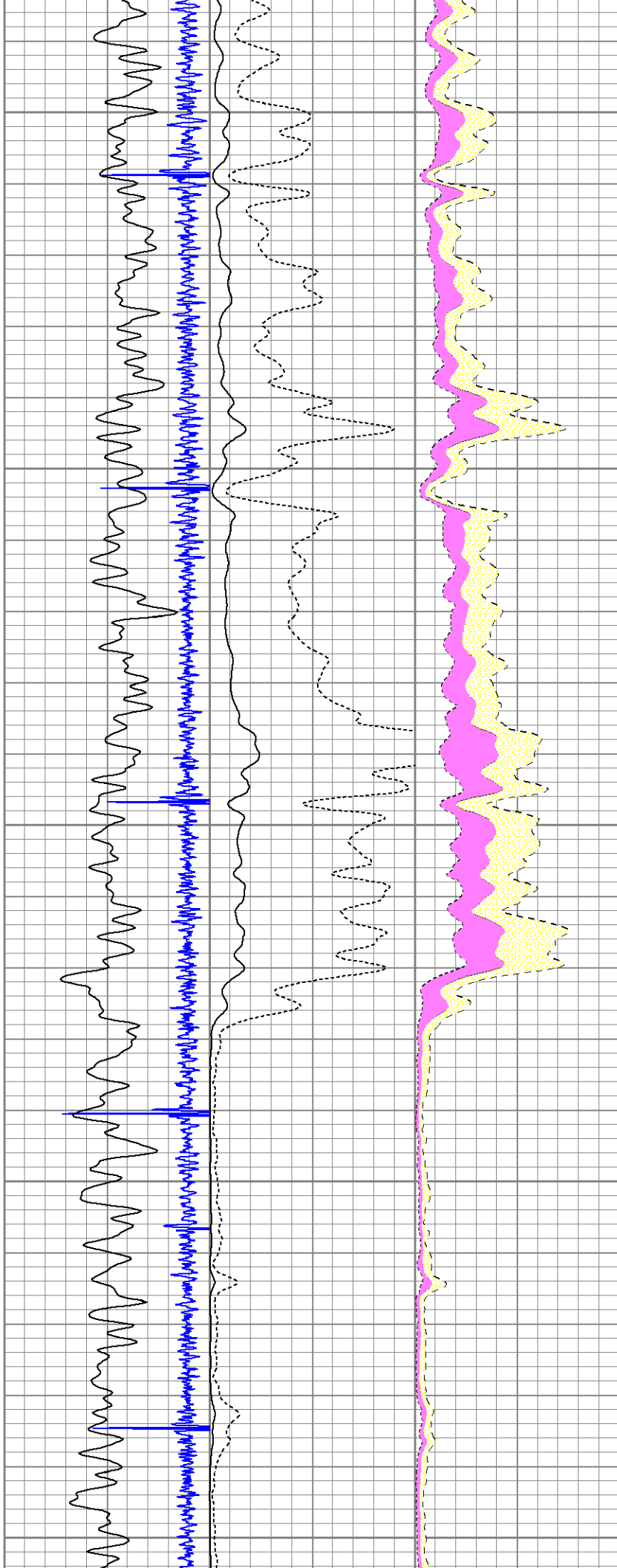
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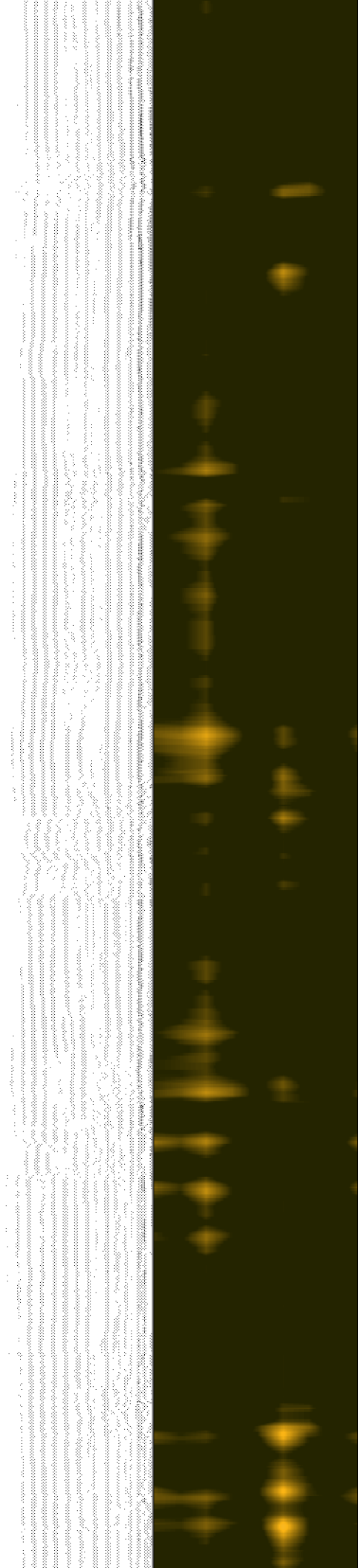
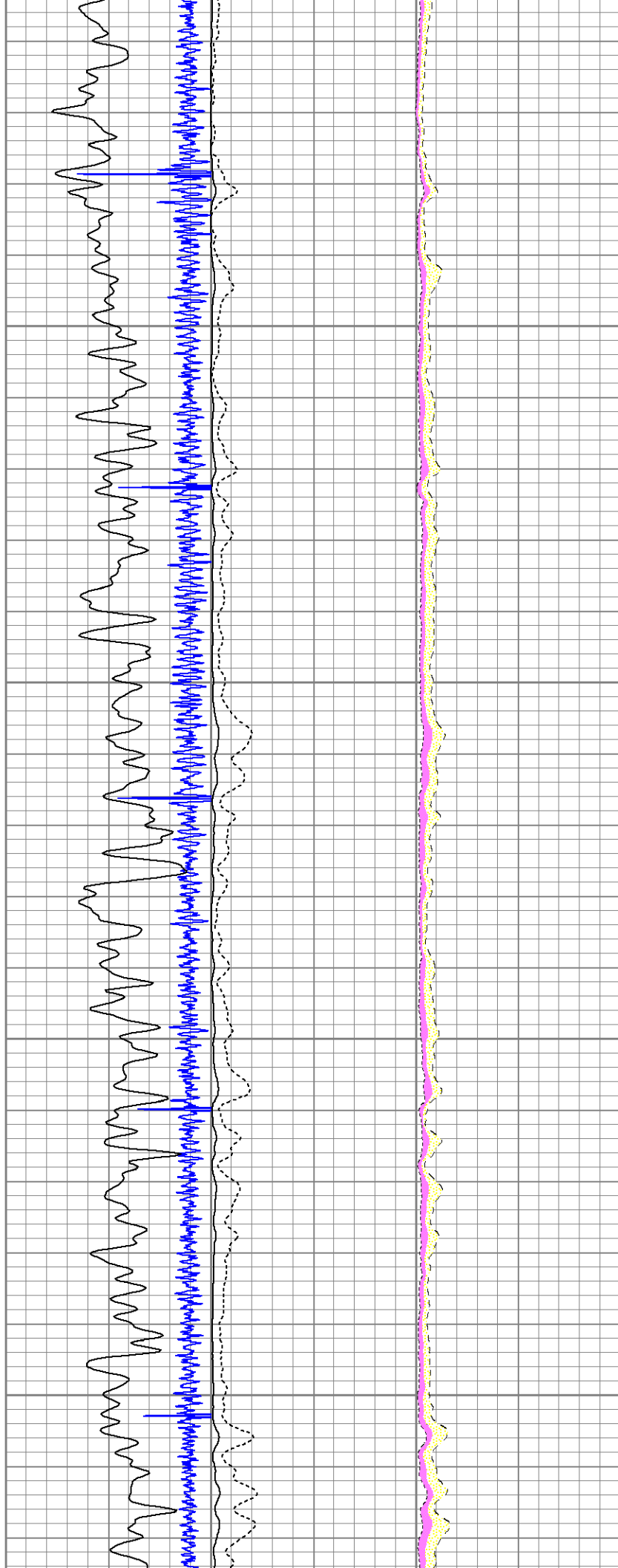
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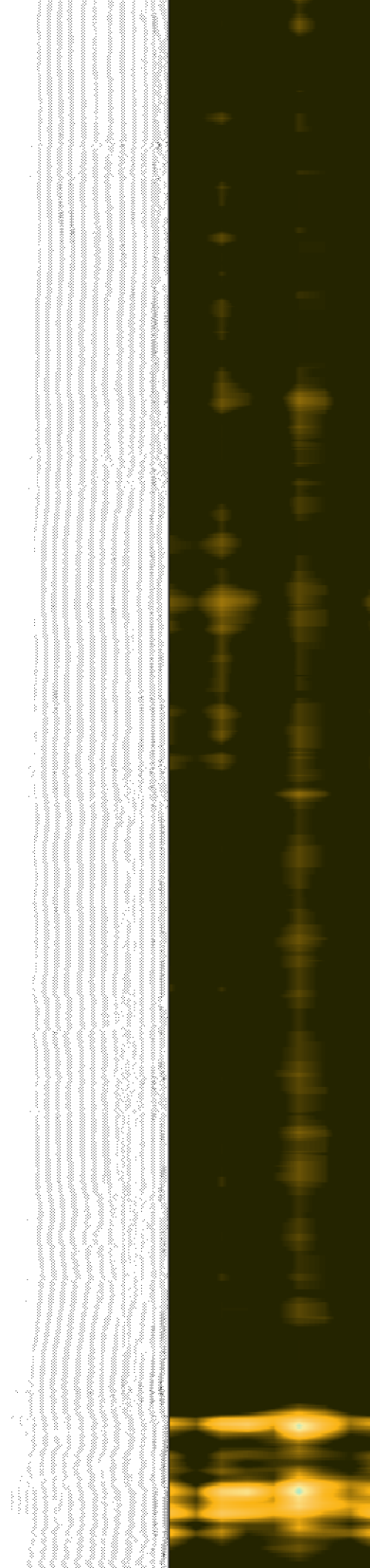
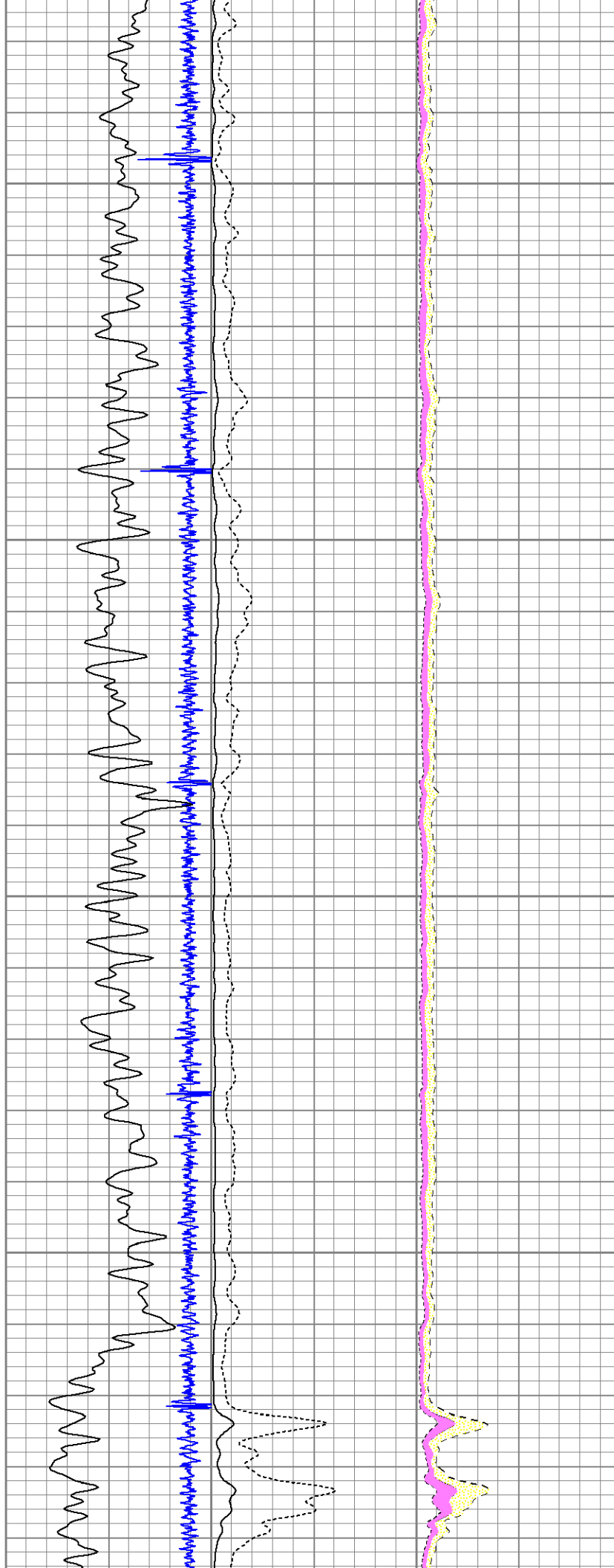
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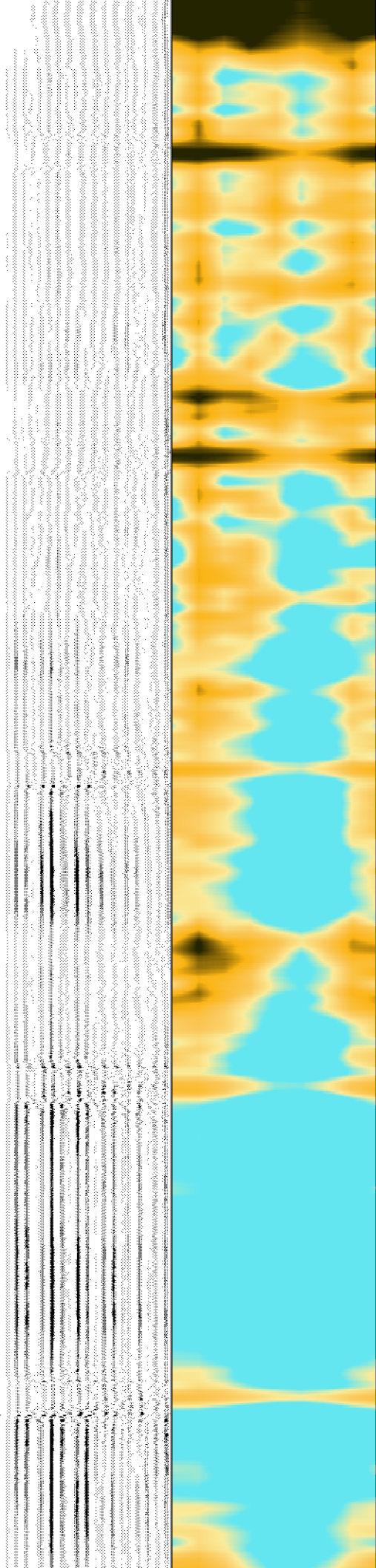
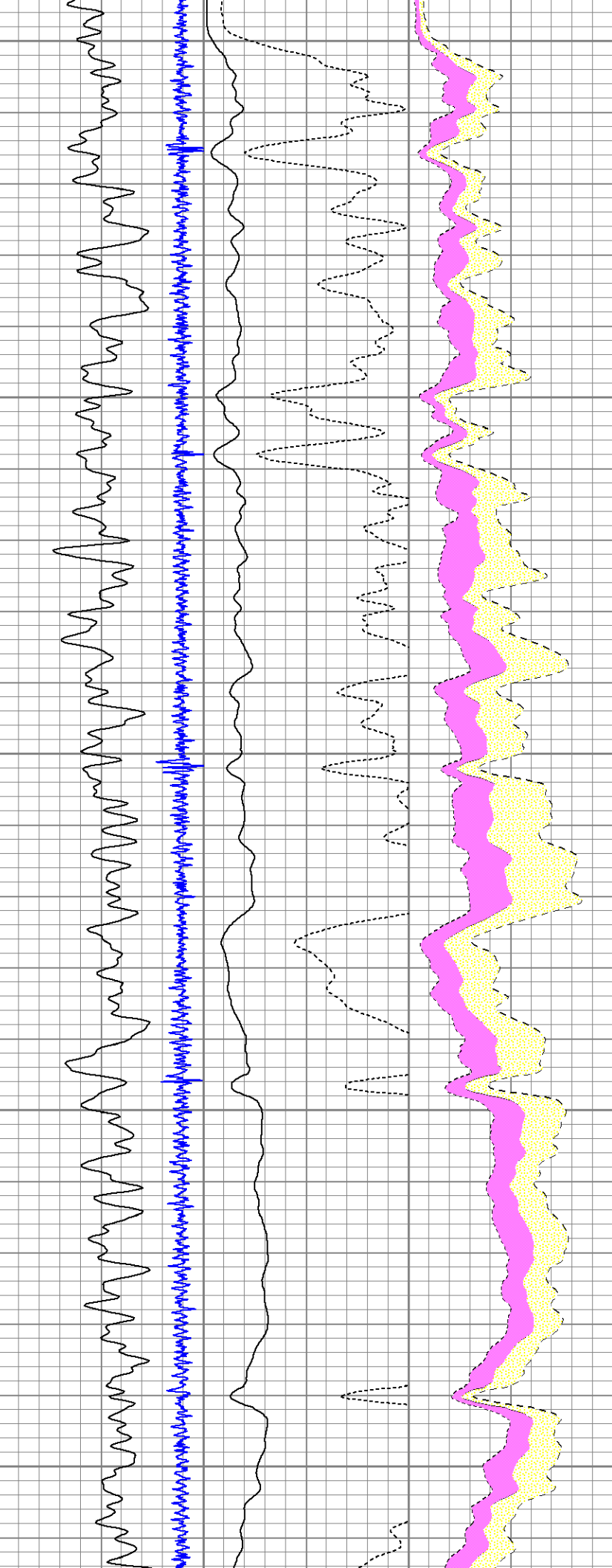
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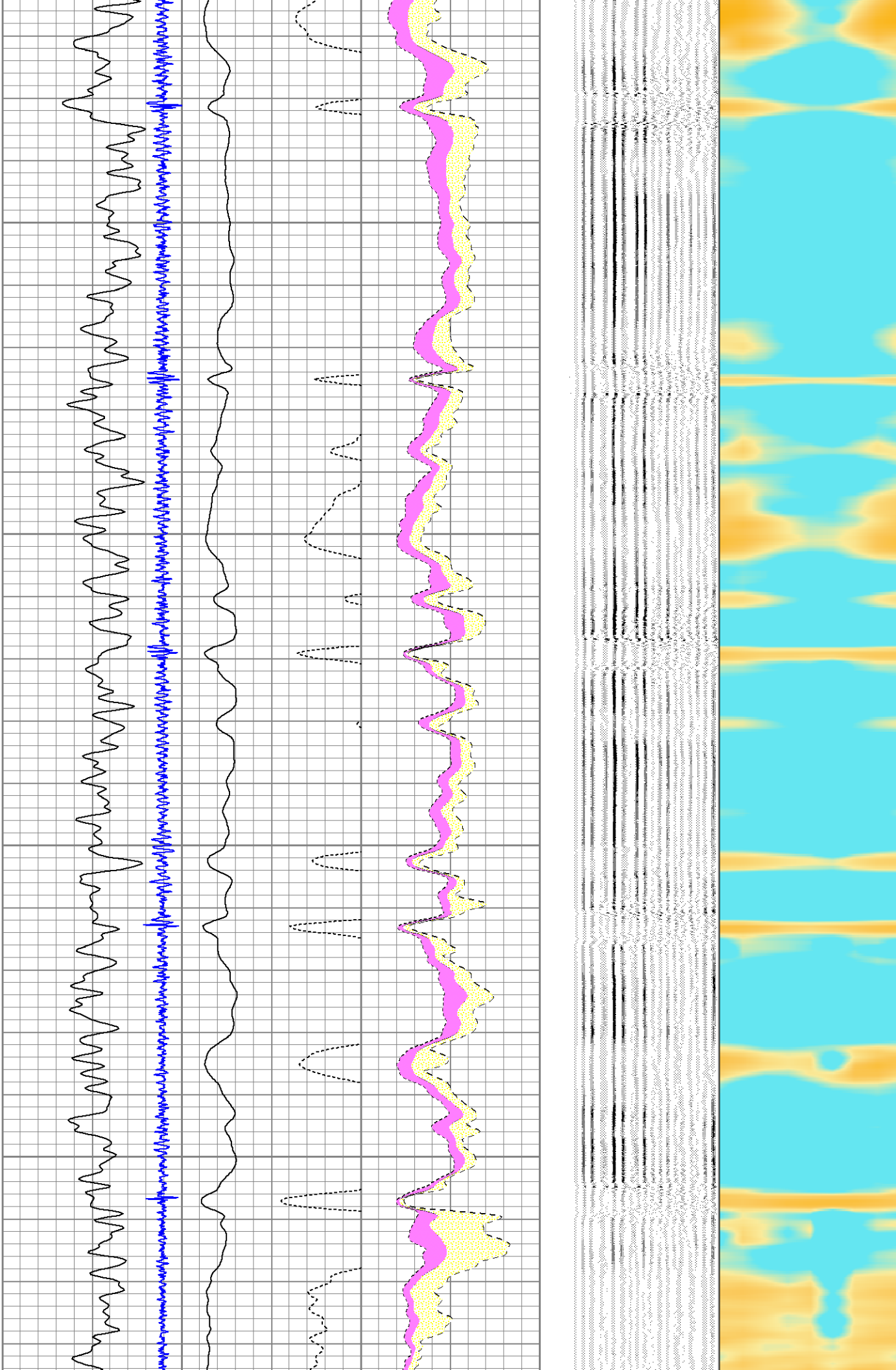
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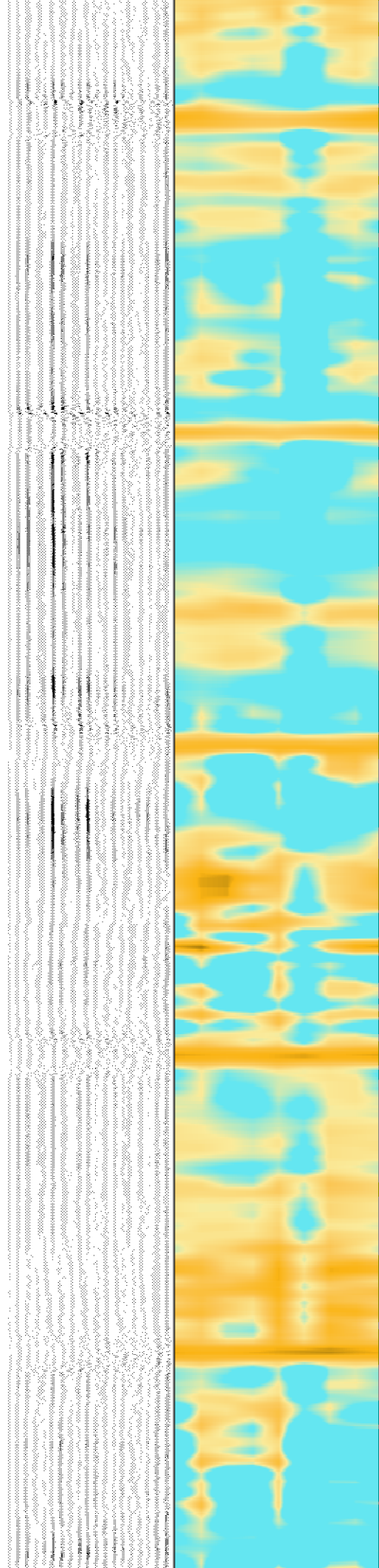
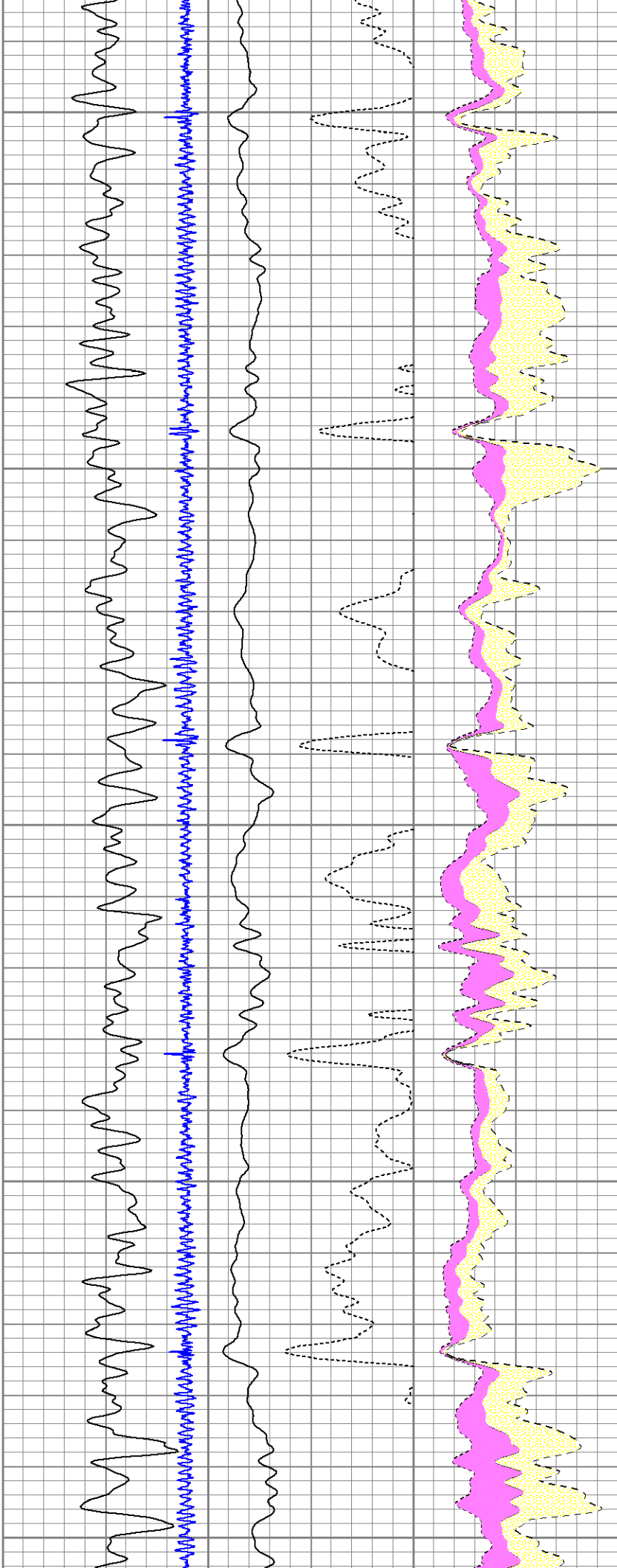
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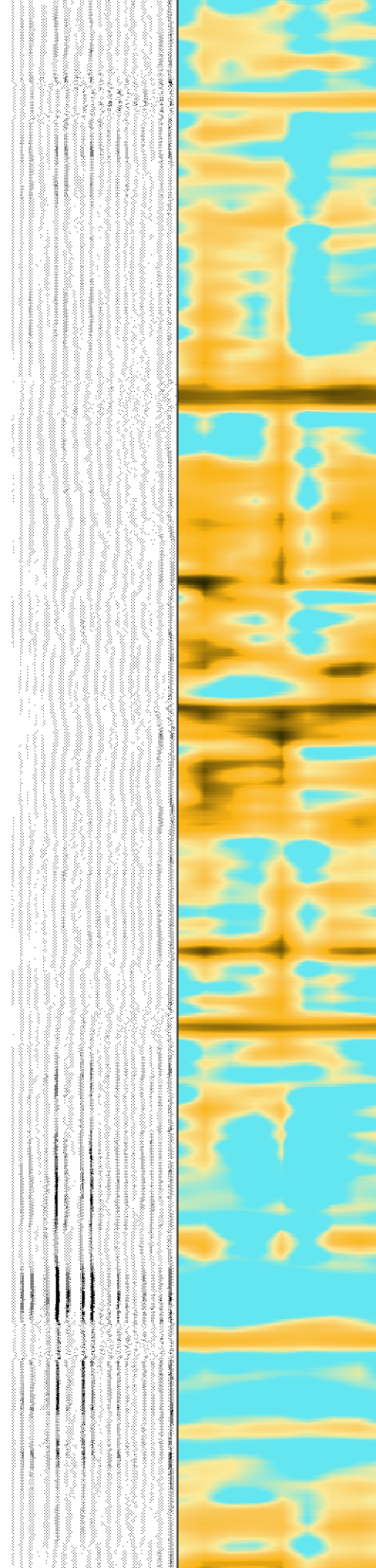
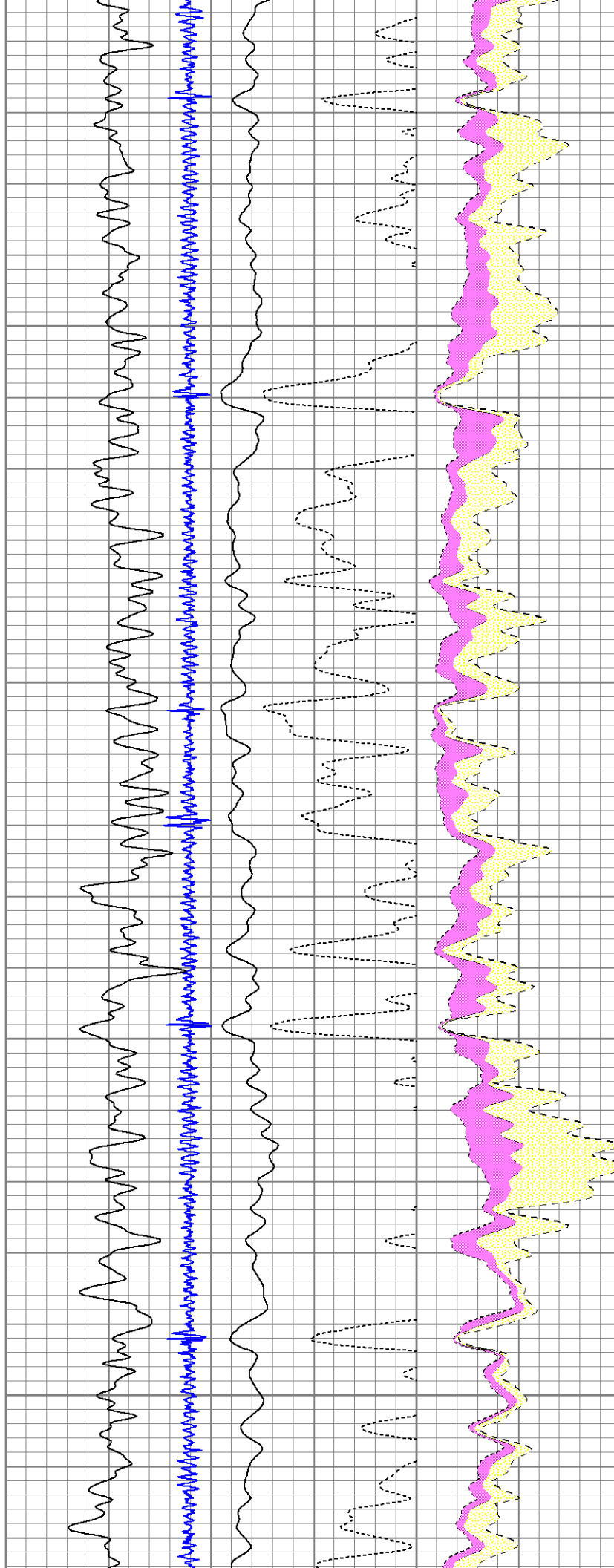
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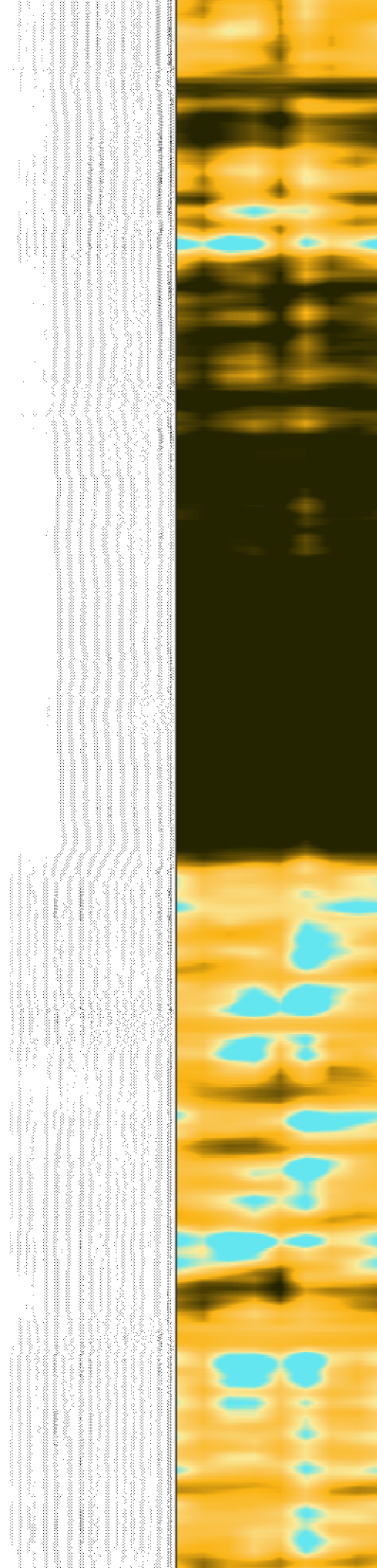
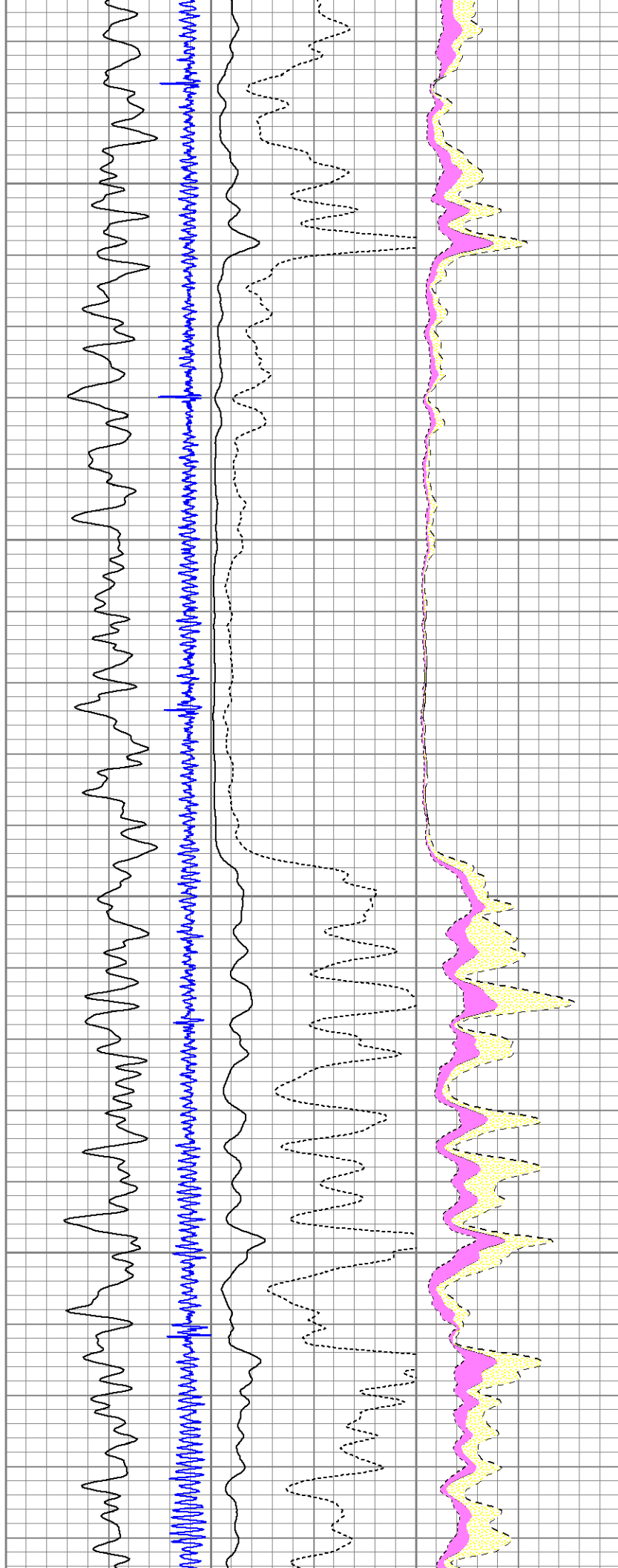
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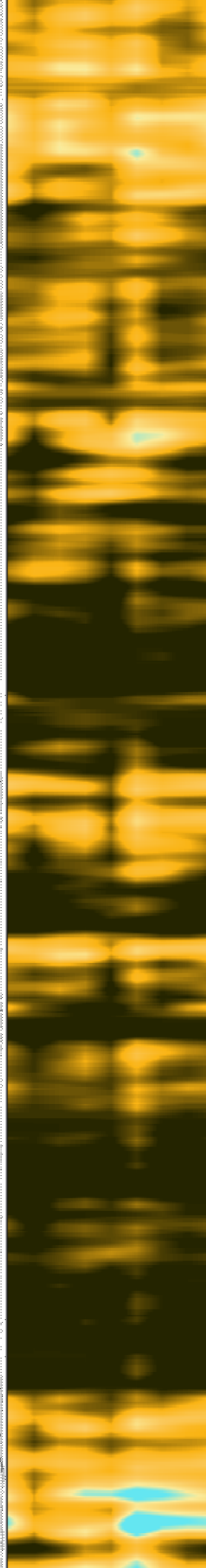
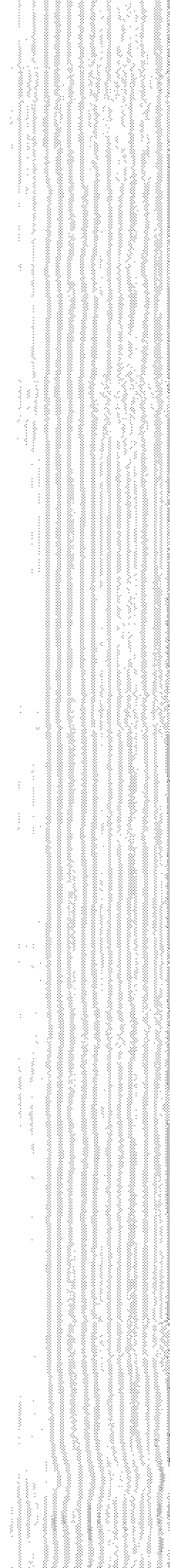
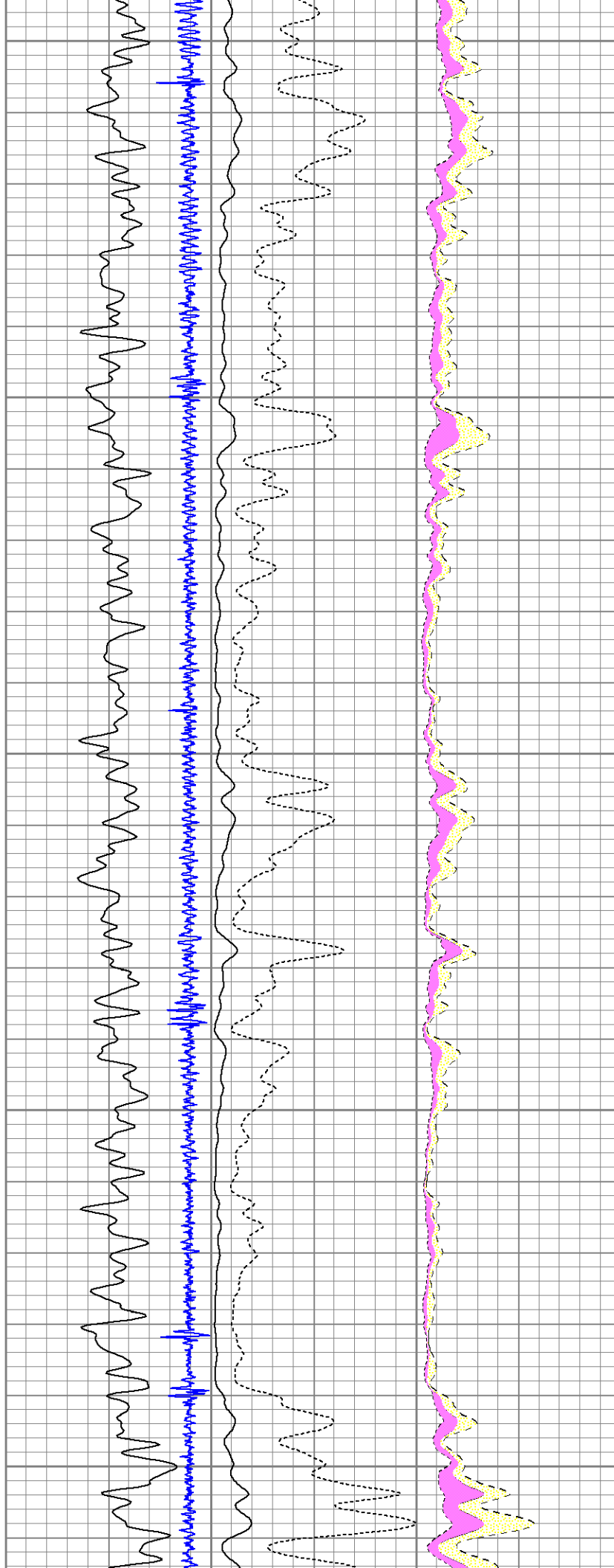
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5900

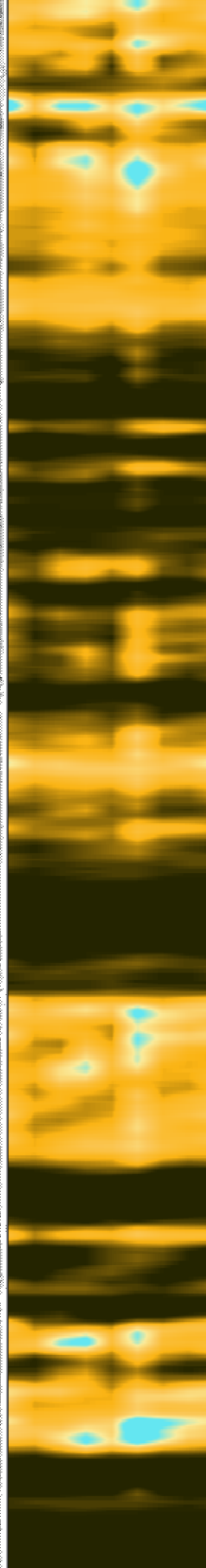
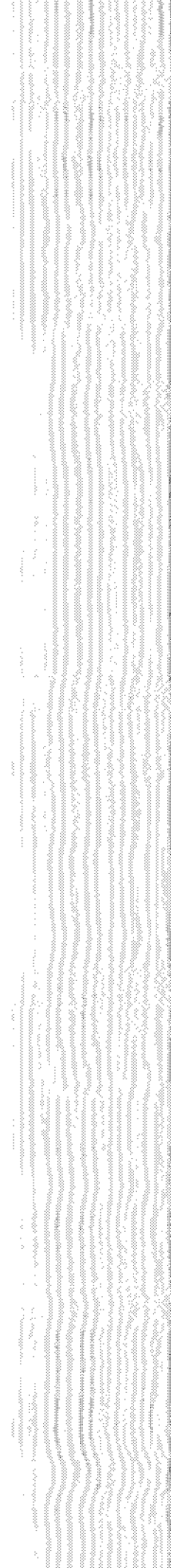
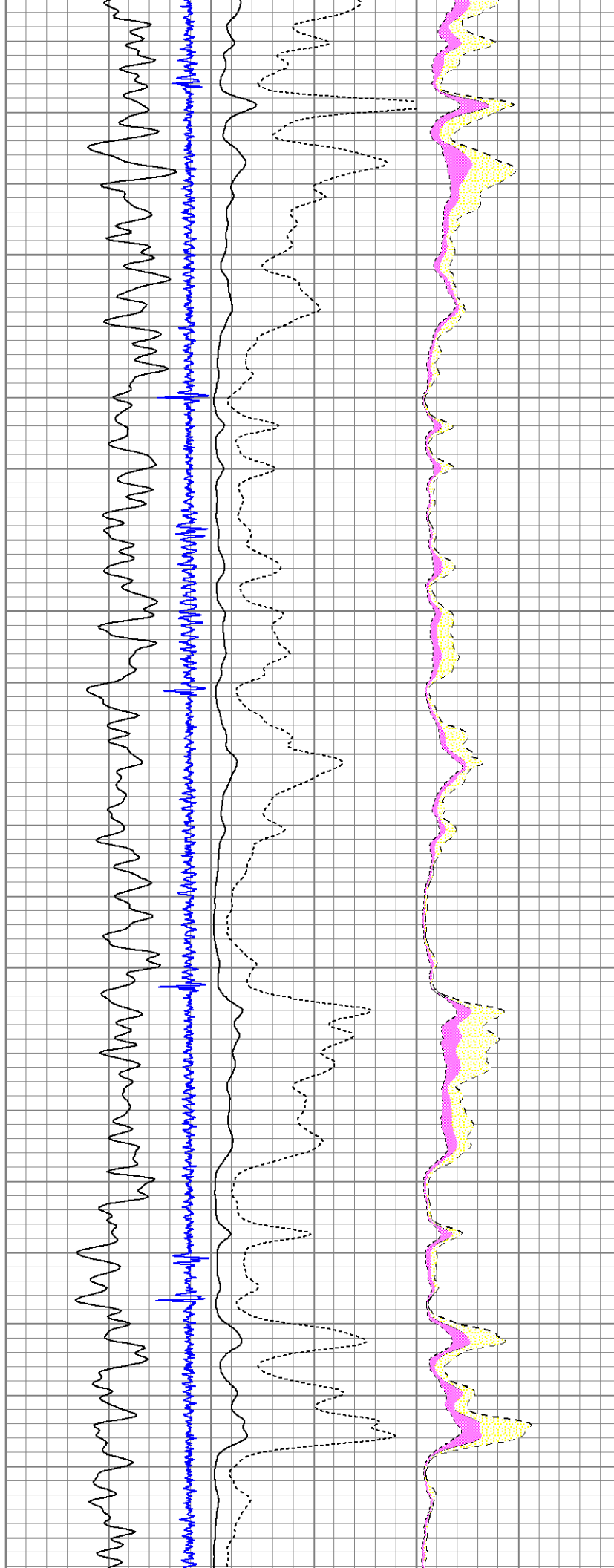
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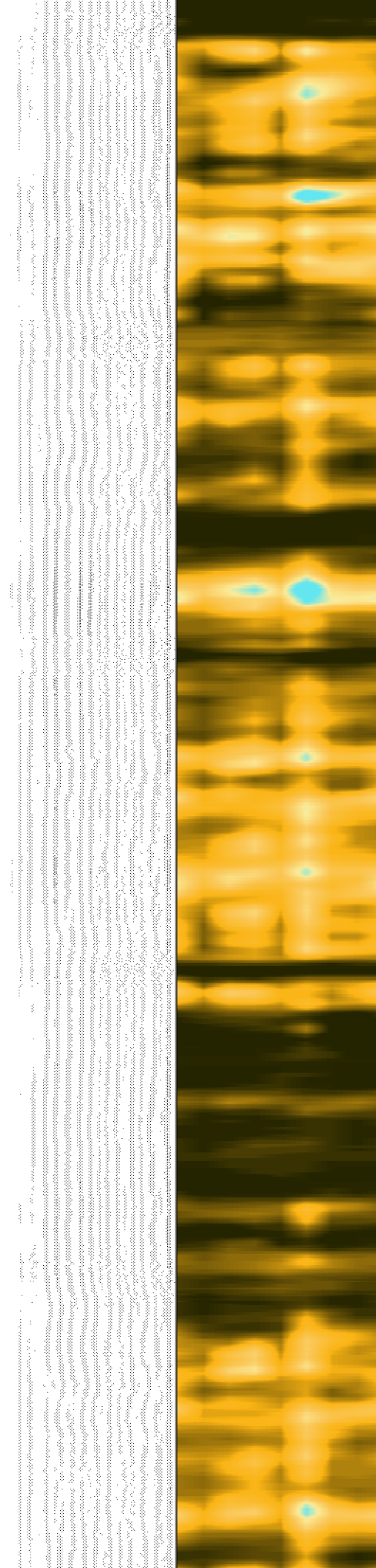
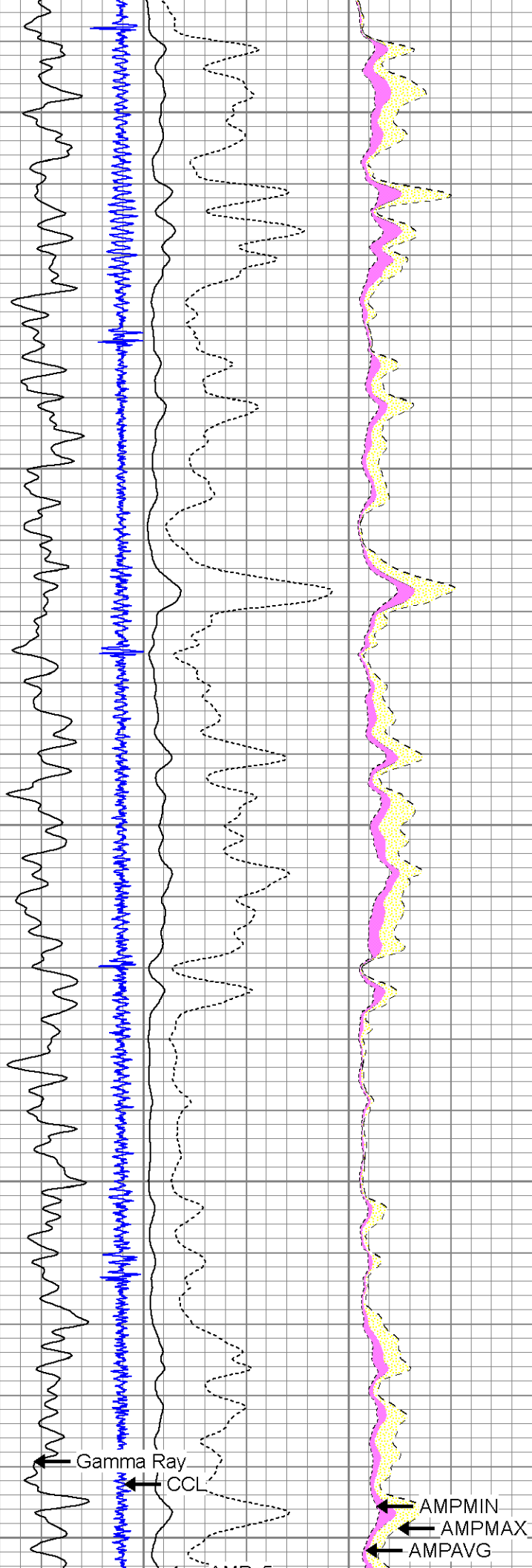
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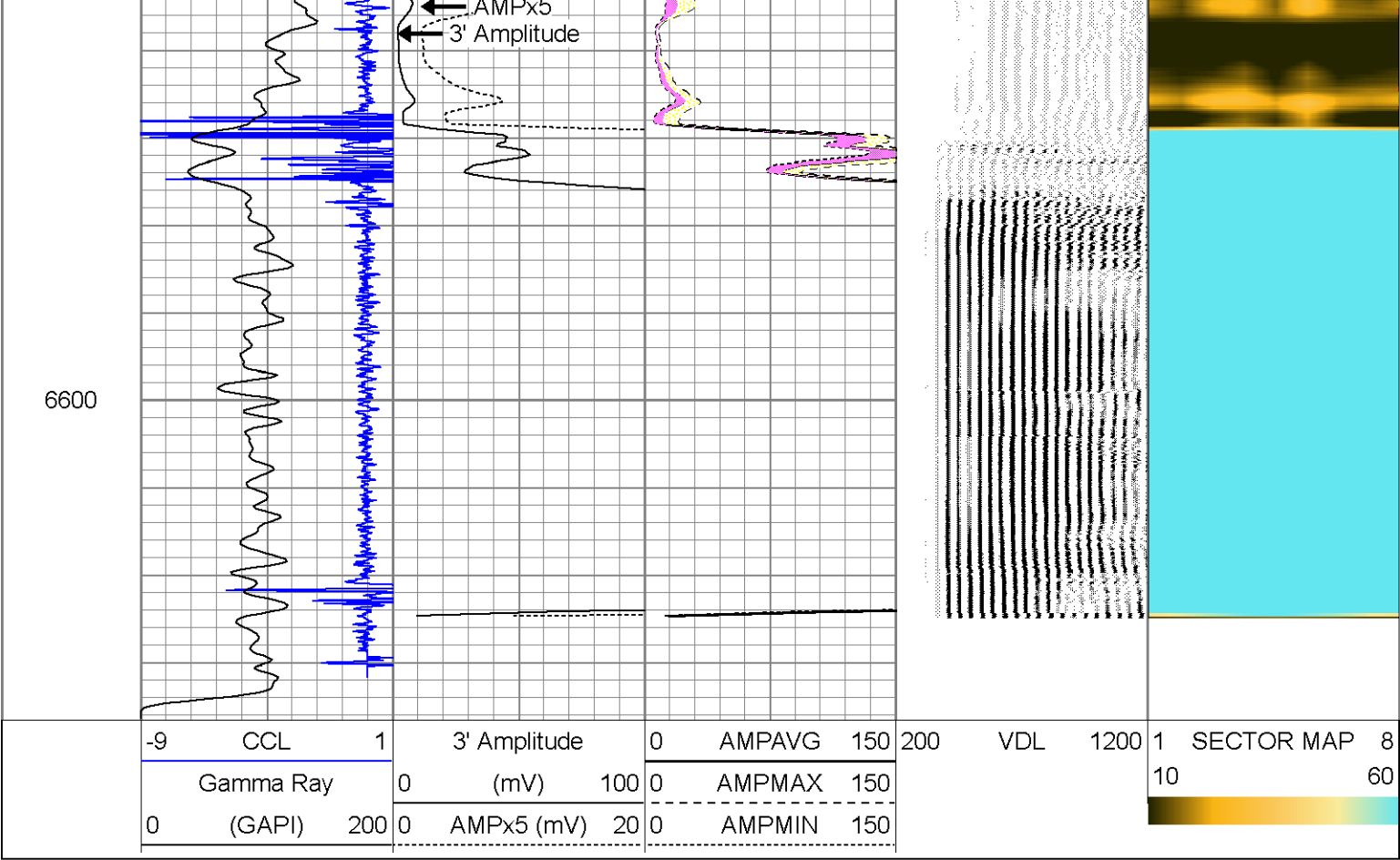
6300



6400

6500





Company ANADARKO PETROLEUM CO.
Well DOUTHIT 40N-27HZ
Field WATTENBERG
County WELD
State COLORADO