



**RADIAL
CEMENT BOND
GAMMA RAY
CCL LOG**

Pioneer Energy Services

Company ANADARKO PETROLEUM
Well GEE 15C-25HZ
Field WATTENBERG
County WELD State COLORADO

Location: API # : 0512339172

Other Services

SEC 24 TWP 2N RGE 67W

Permanent Datum Ground level Elevation 4859'
Log Measured From K.B. 16' A.G.L.
Drilling Measured From K.B.

Elevation
K.B. 4875'
D.F.
G.L. 4859'

Date 18-MARCH-2015

Run Number	ONE
Depth Driller	16838'
Depth Logger	7260'
Bottom Logged Interval	7260'
Top Log Interval	SURFACE
Open Hole Size	N/A
Type Fluid	WATER
Density / Viscosity	N/A
Max. Recorded Temp.	N/A
Estimated Cement Top	SEE LOG
Time Well Ready	07:00
Time Logger on Bottom	07:30
Equipment Number	P-75
Location	FT. MORGAN
Recorded By	REESE
Witnessed By	MARIO T.

Borehole Record		Tubing Record				
Bit	From	To	Size	Weight	From	To

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	9-5/8"	366	SURFACE	1066'
Prot. String				
Production String	7"	26	SURFACE	7741'
Liner				

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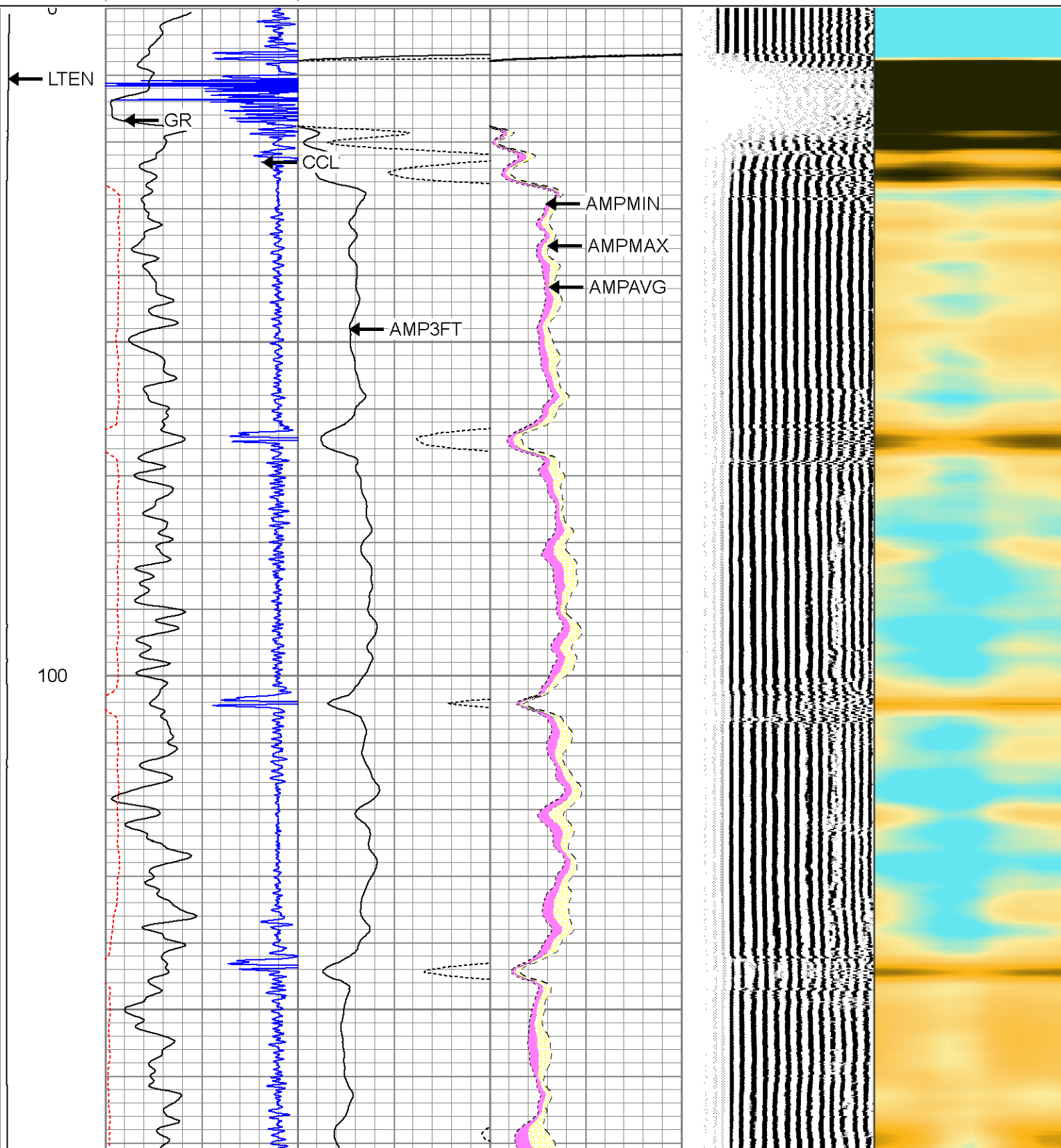
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

LOG CORRELATED TO K.B. 16' A.G.L.

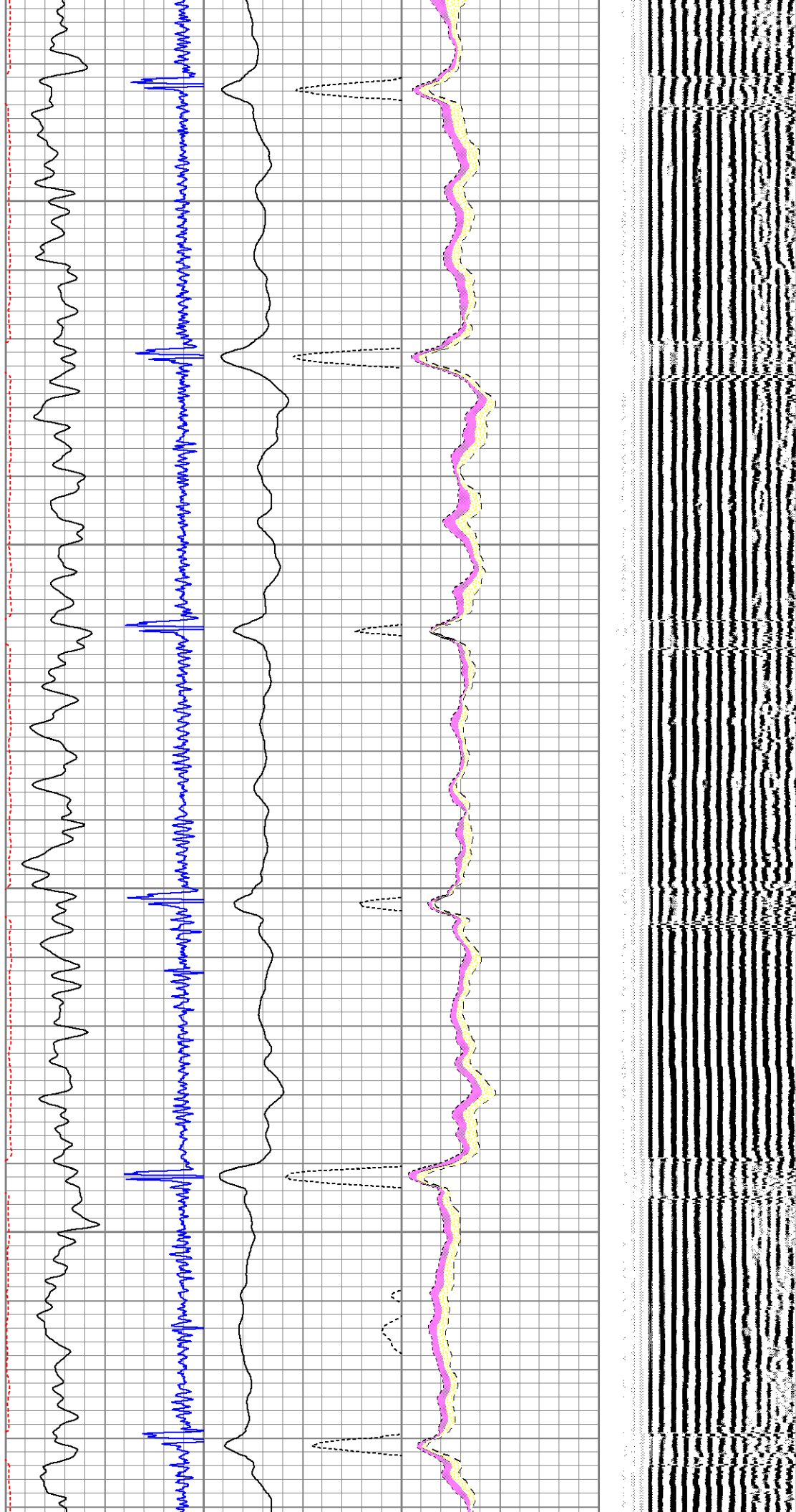
Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			PTSD275	2.83	2.75	

Tension	-9 CCL 1		3' Amplitude	0 AMPAVG 150	200 VDL 1200	1 SECTOR MAP 8
0 (lb)1600	Gamma Ray	0 (mV) 100	0 AMPMAX 150			10 60
	0 (GAPI) 200	0 AMPx5 (mV) 20	0 AMPMIN 150			
	TT3FT					
	290 (usec) 190					



200

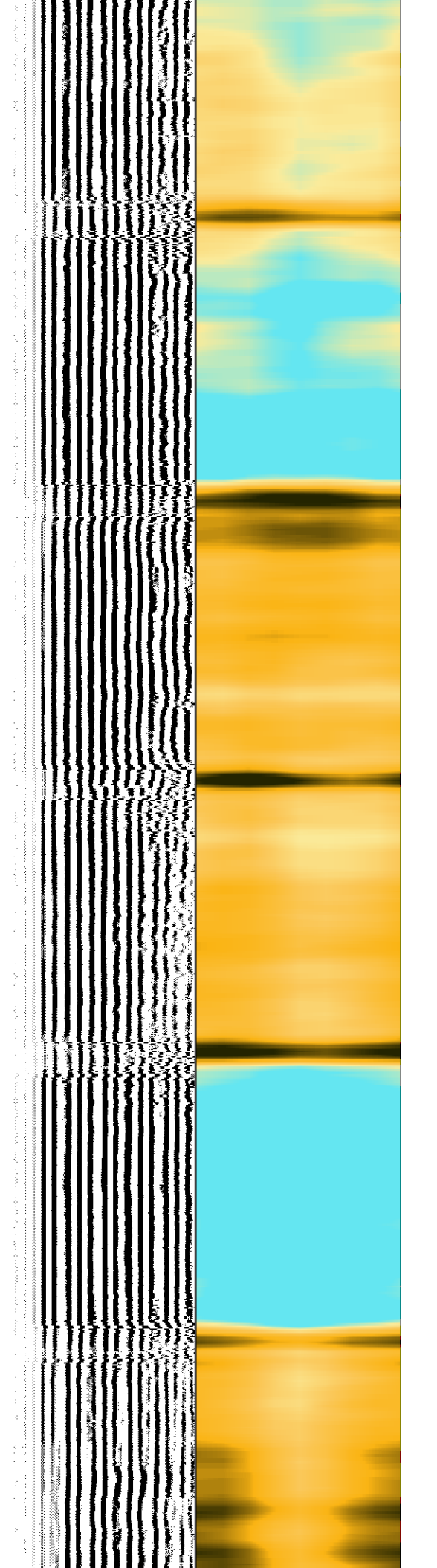
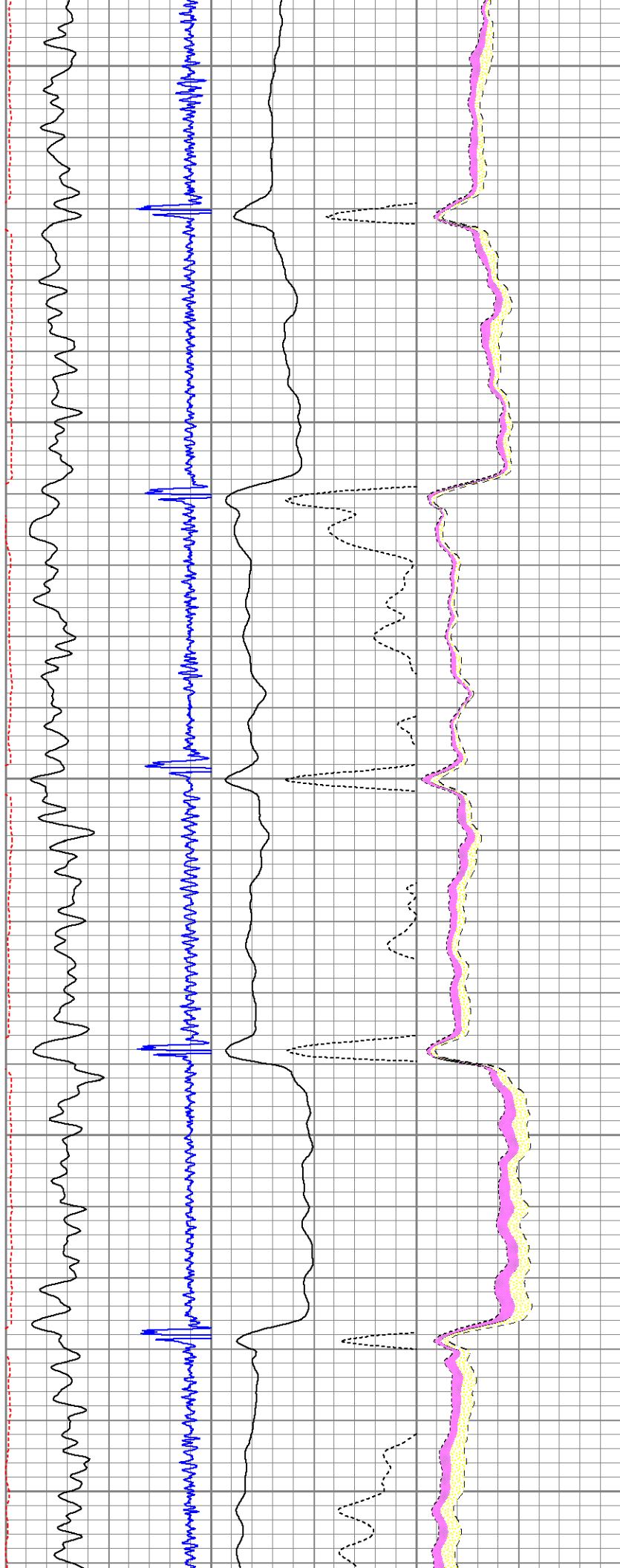
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400

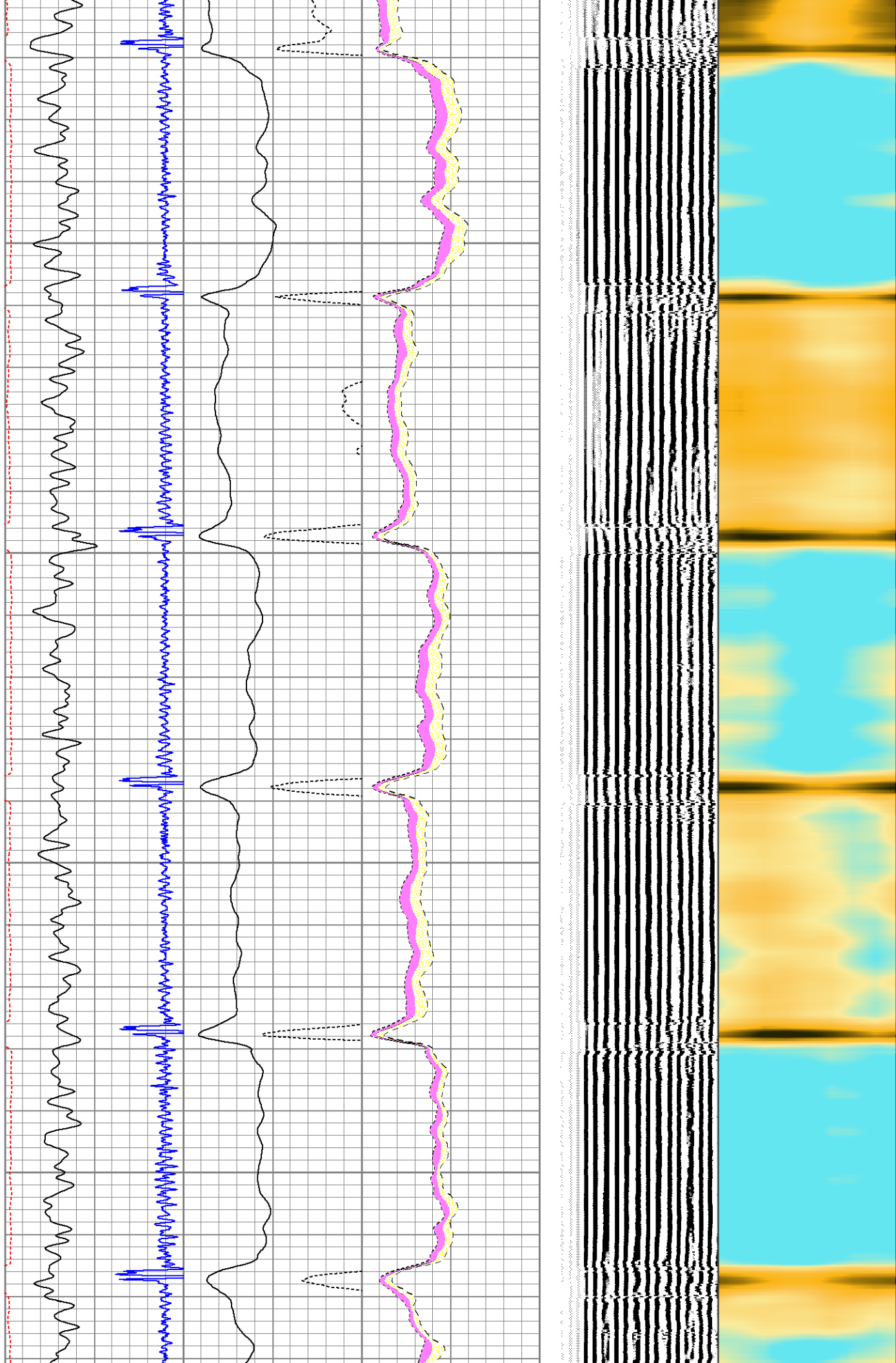
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600



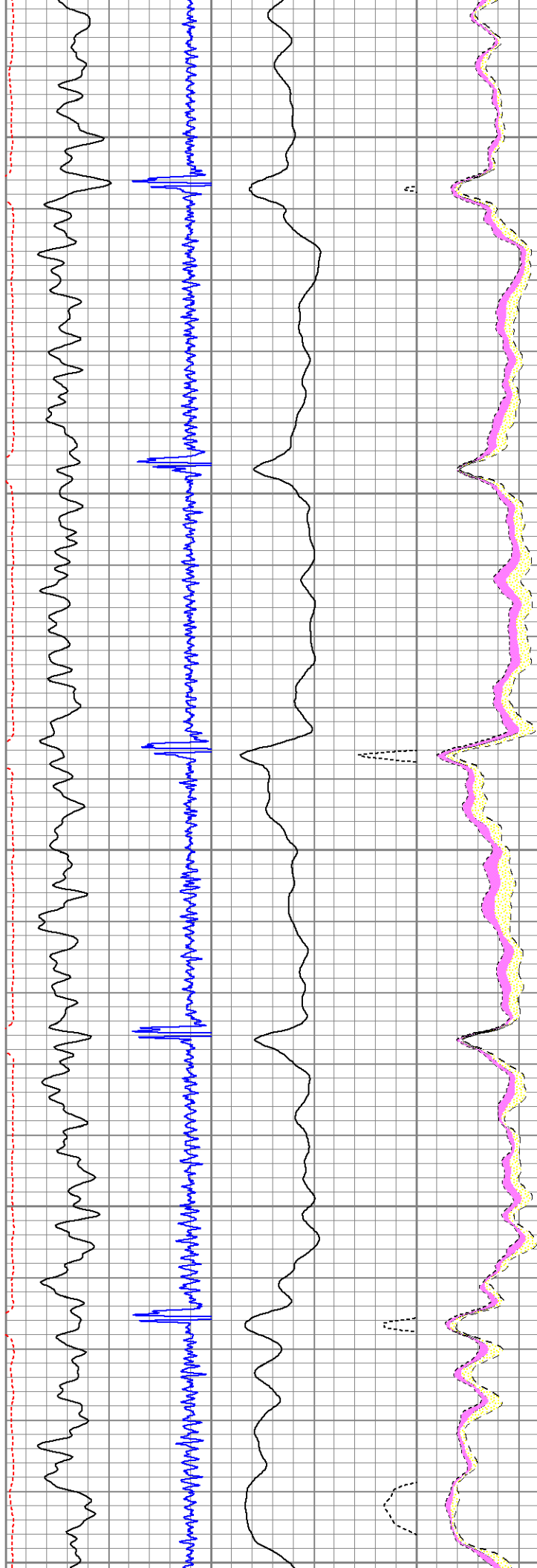
700

800

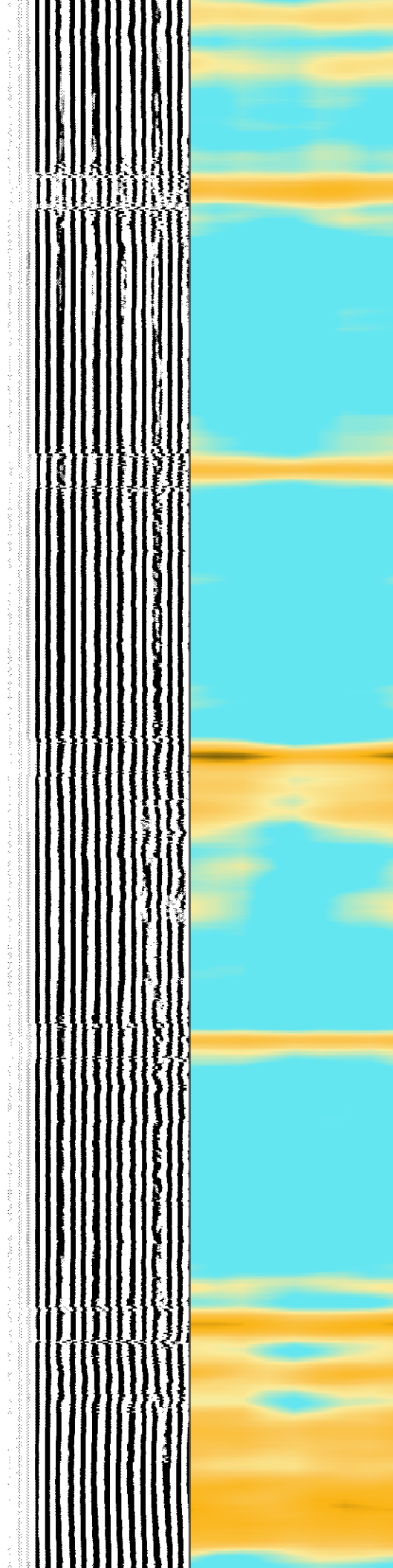


900

1000

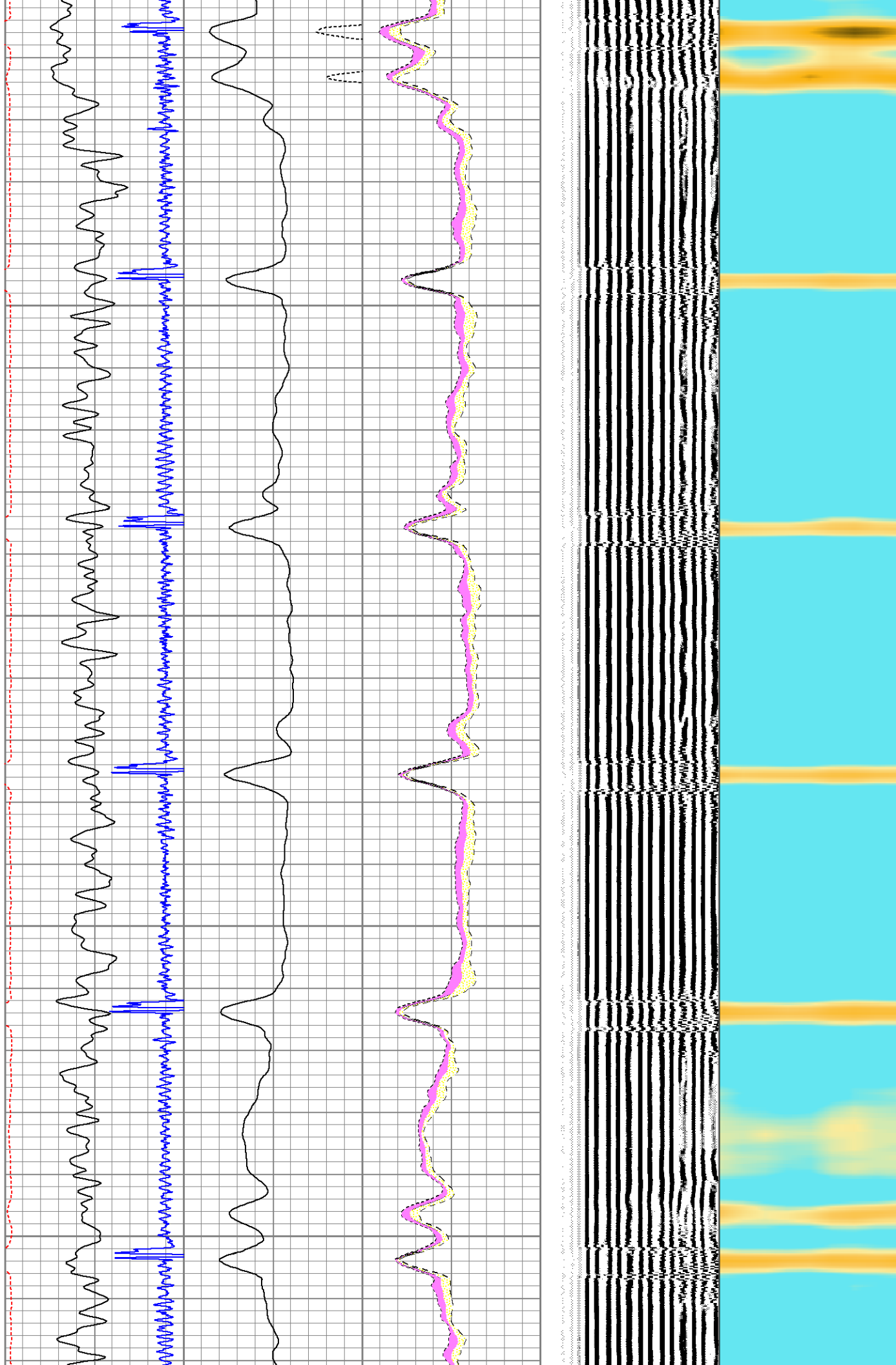


42



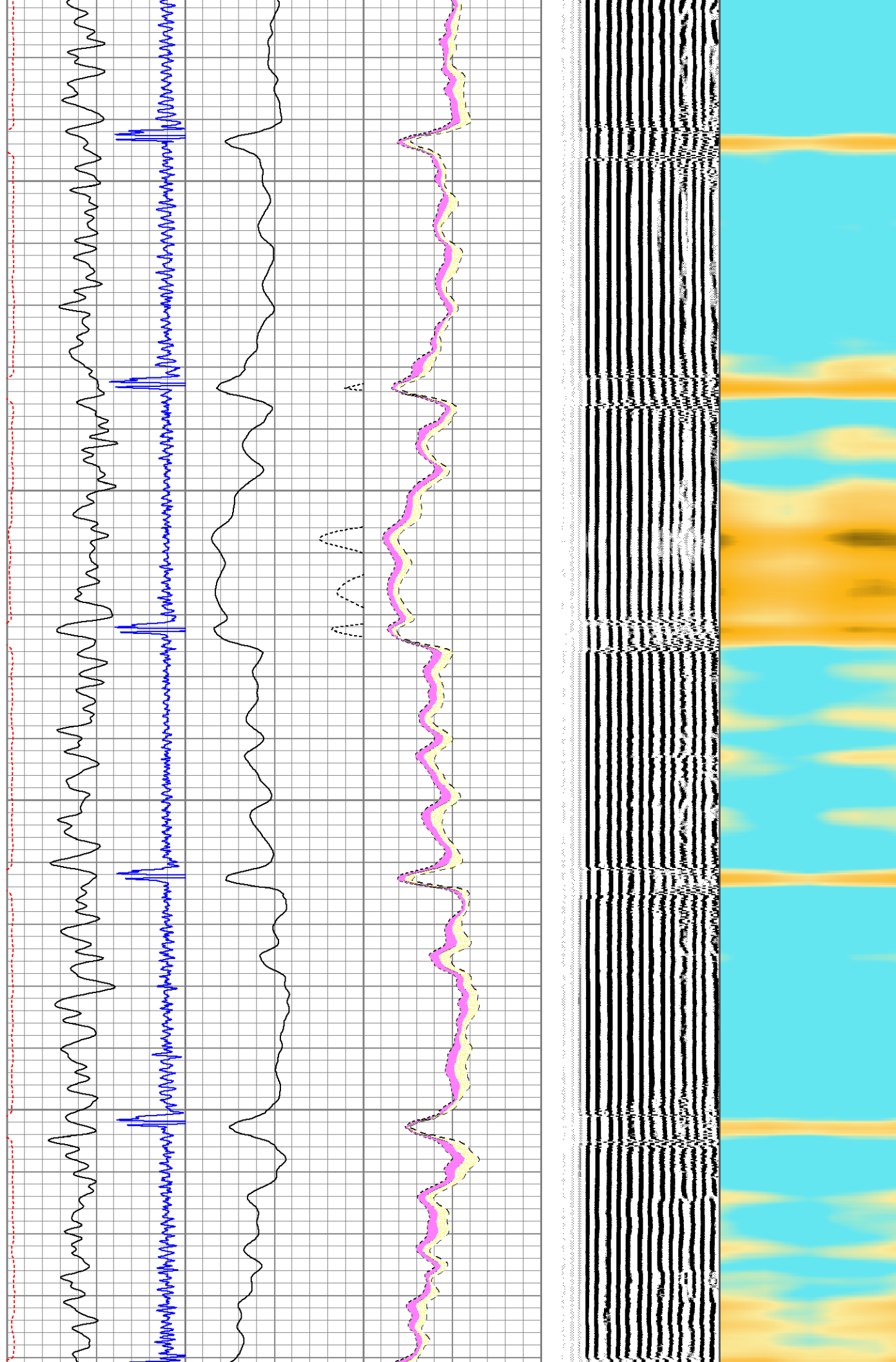
1100

1200



1300

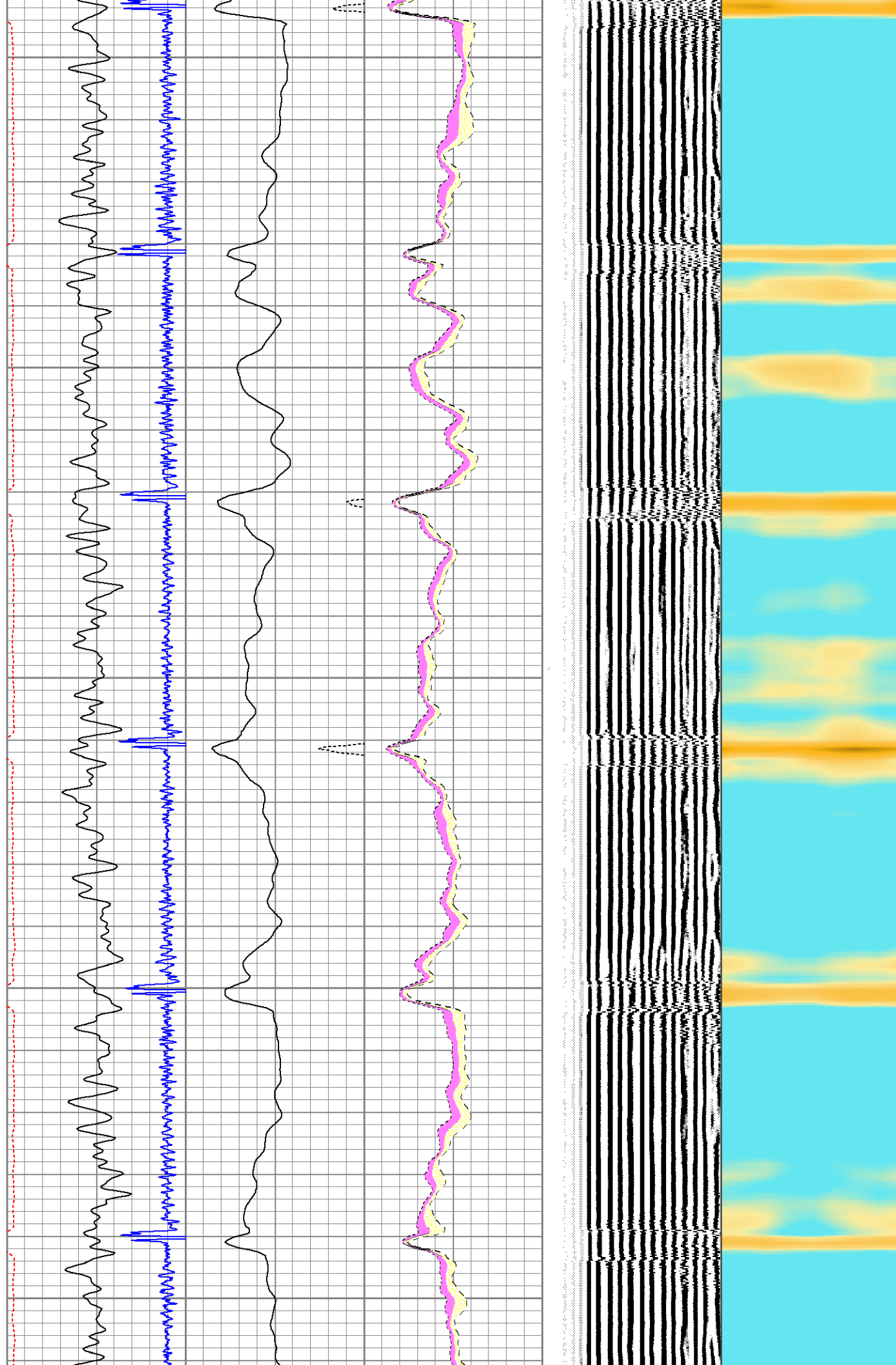
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1500

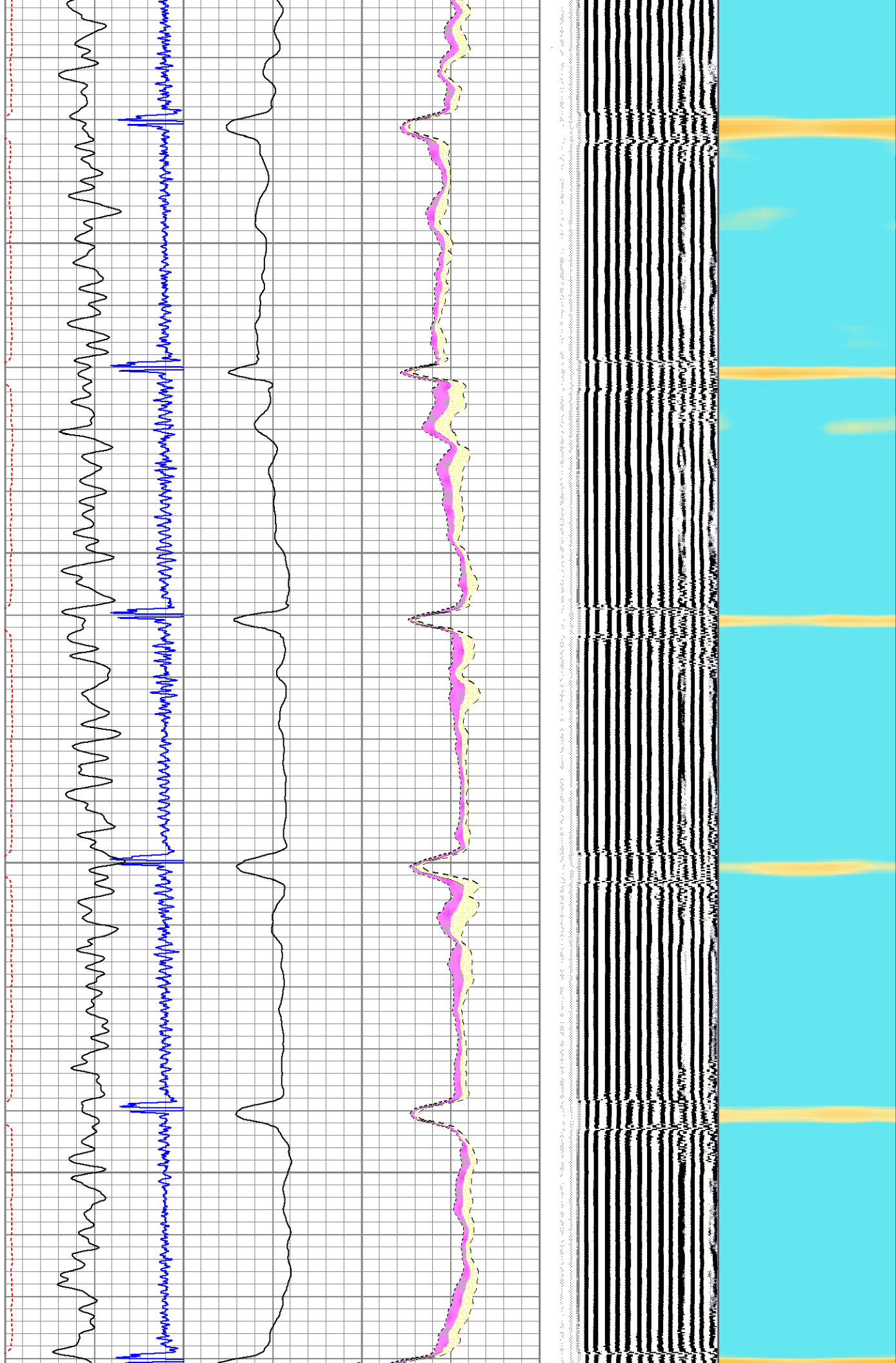
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1700



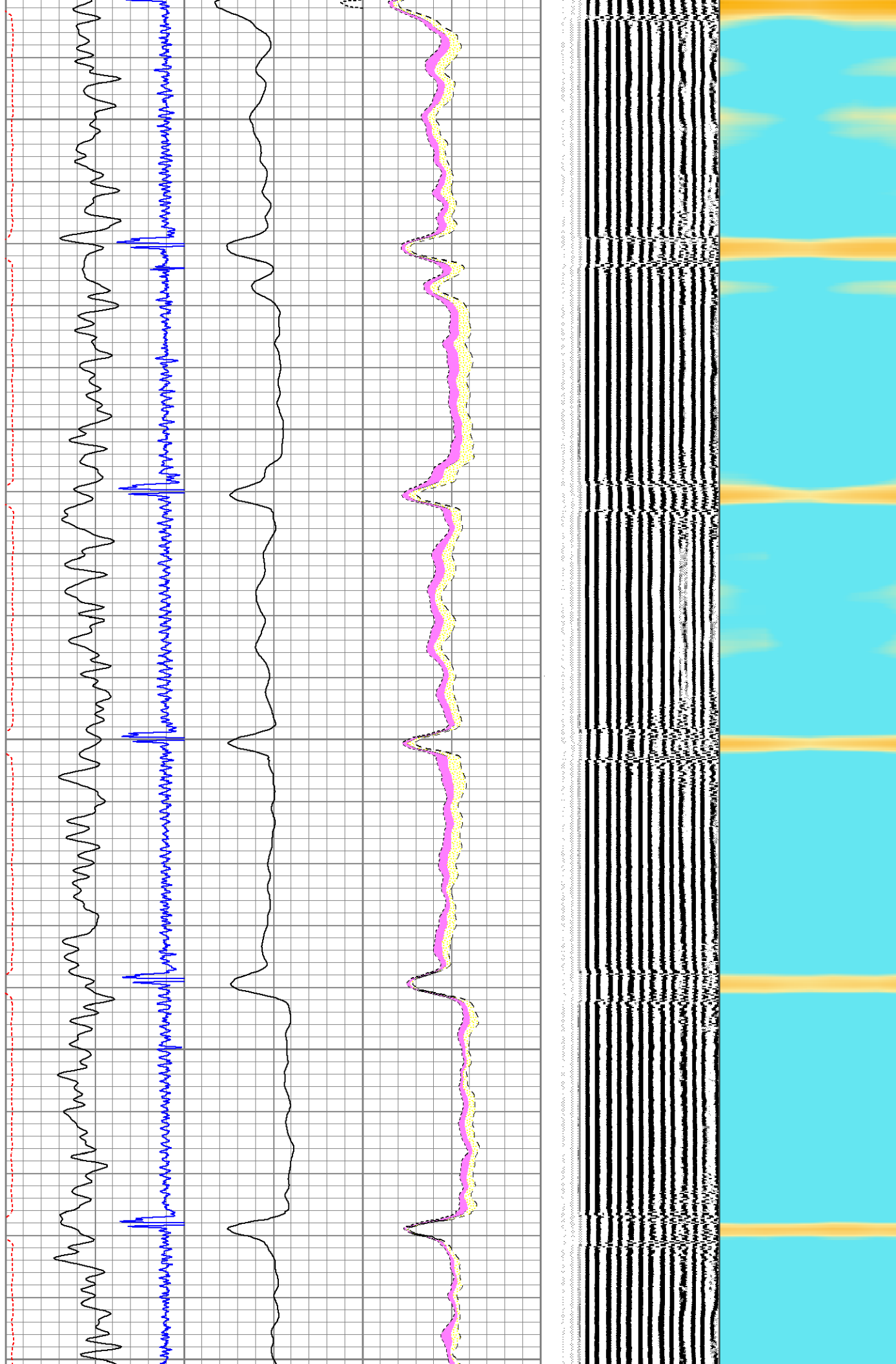
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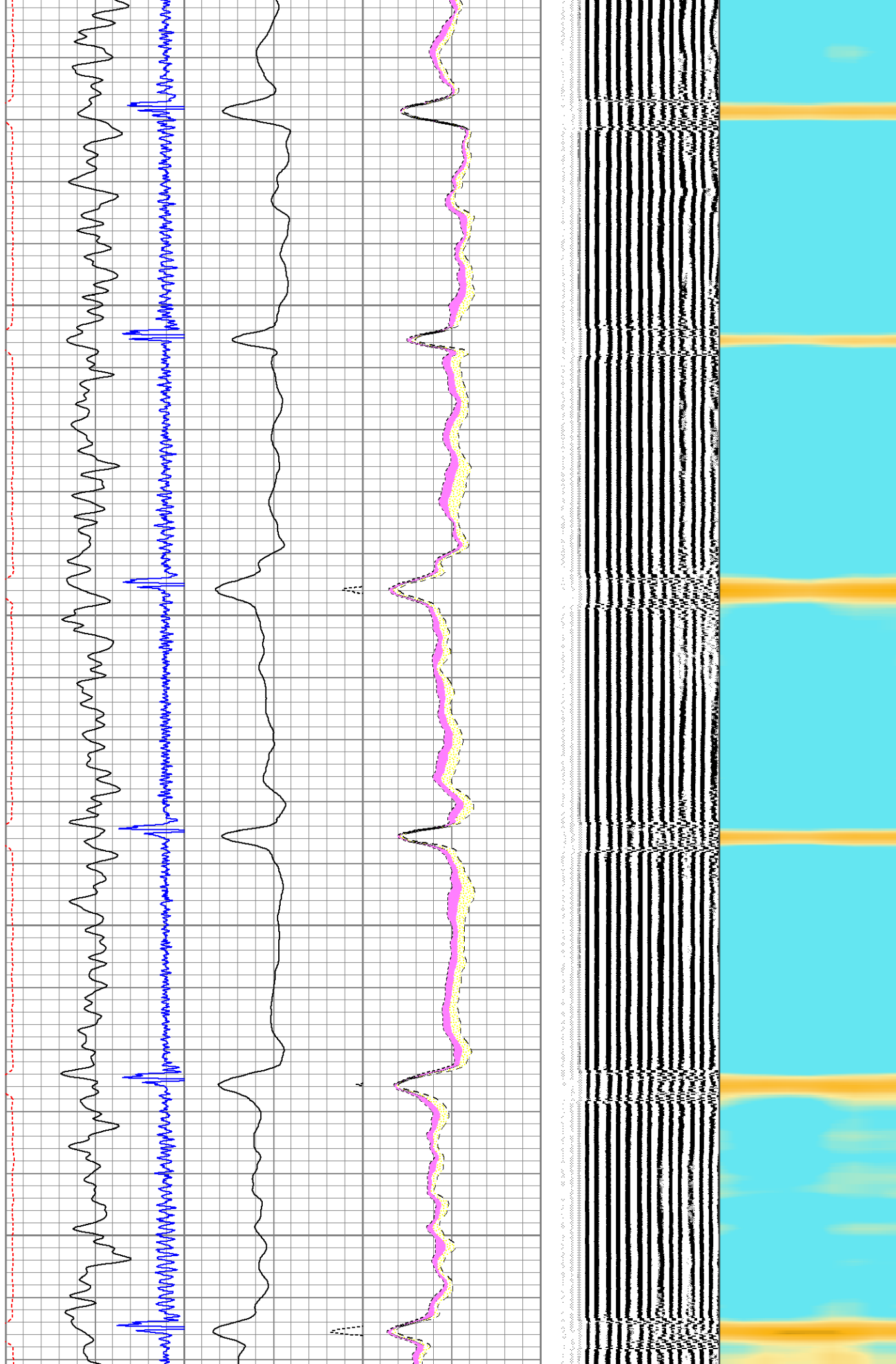
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2100



2200

2300

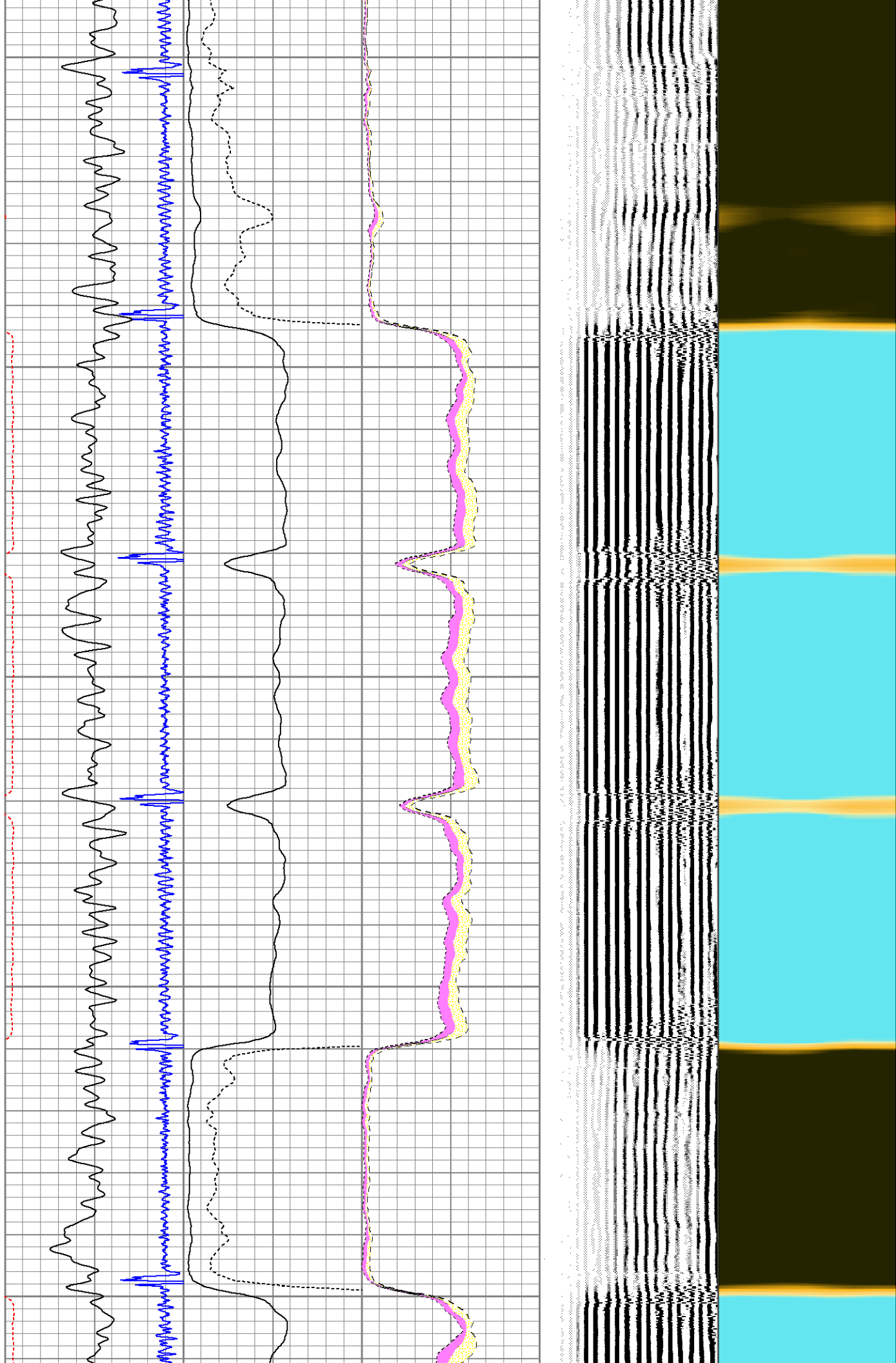


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2600

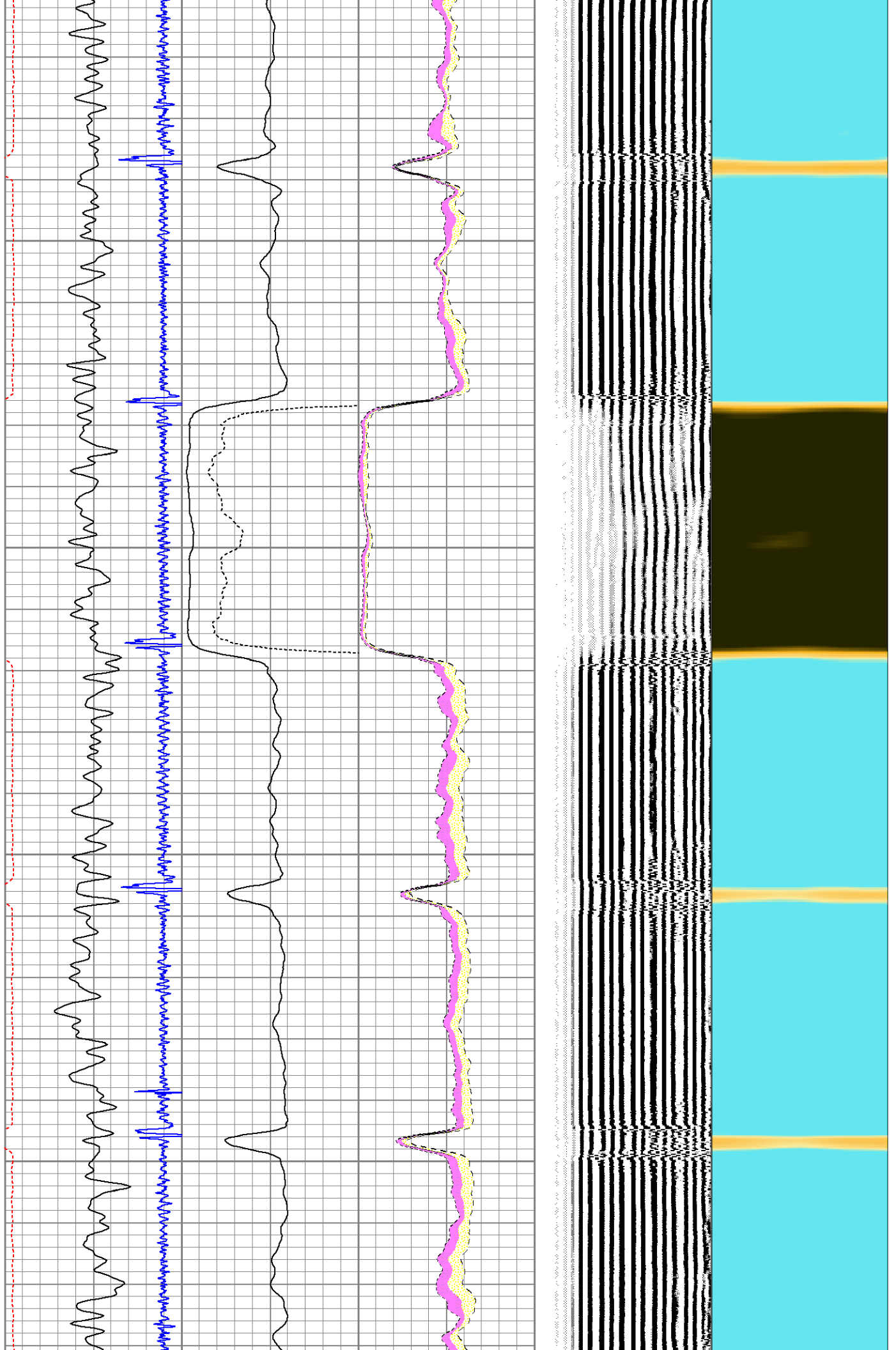
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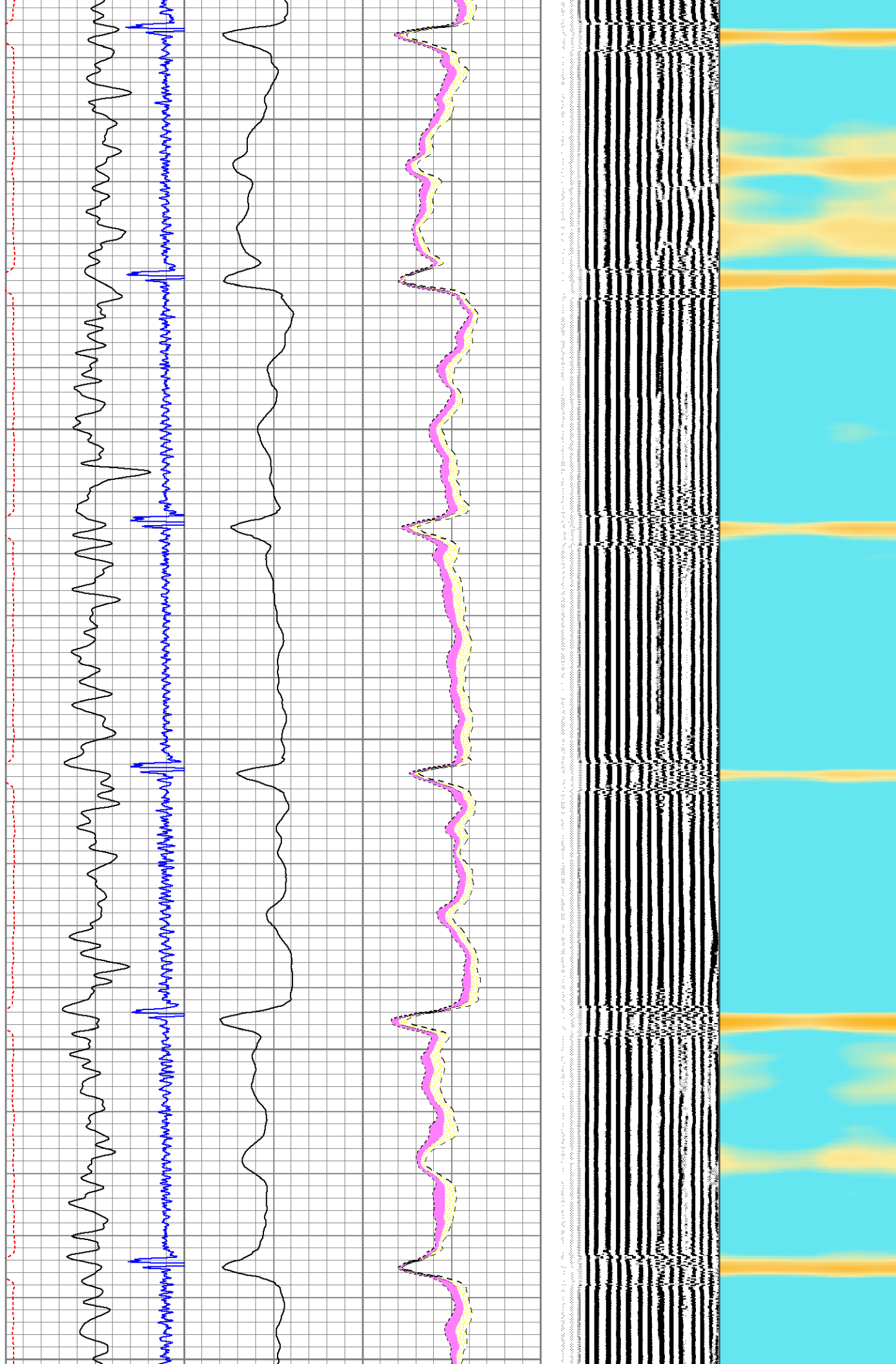
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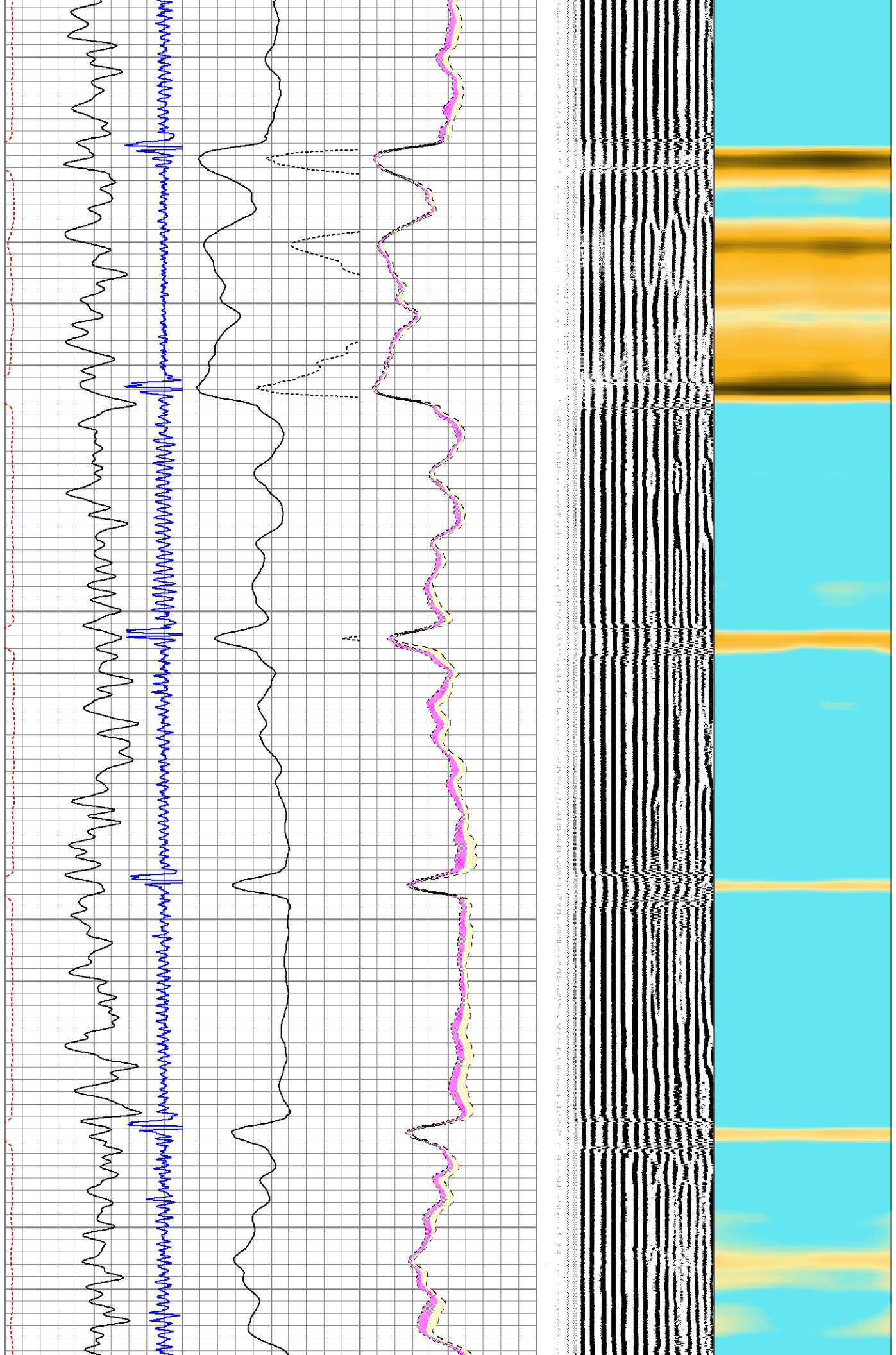
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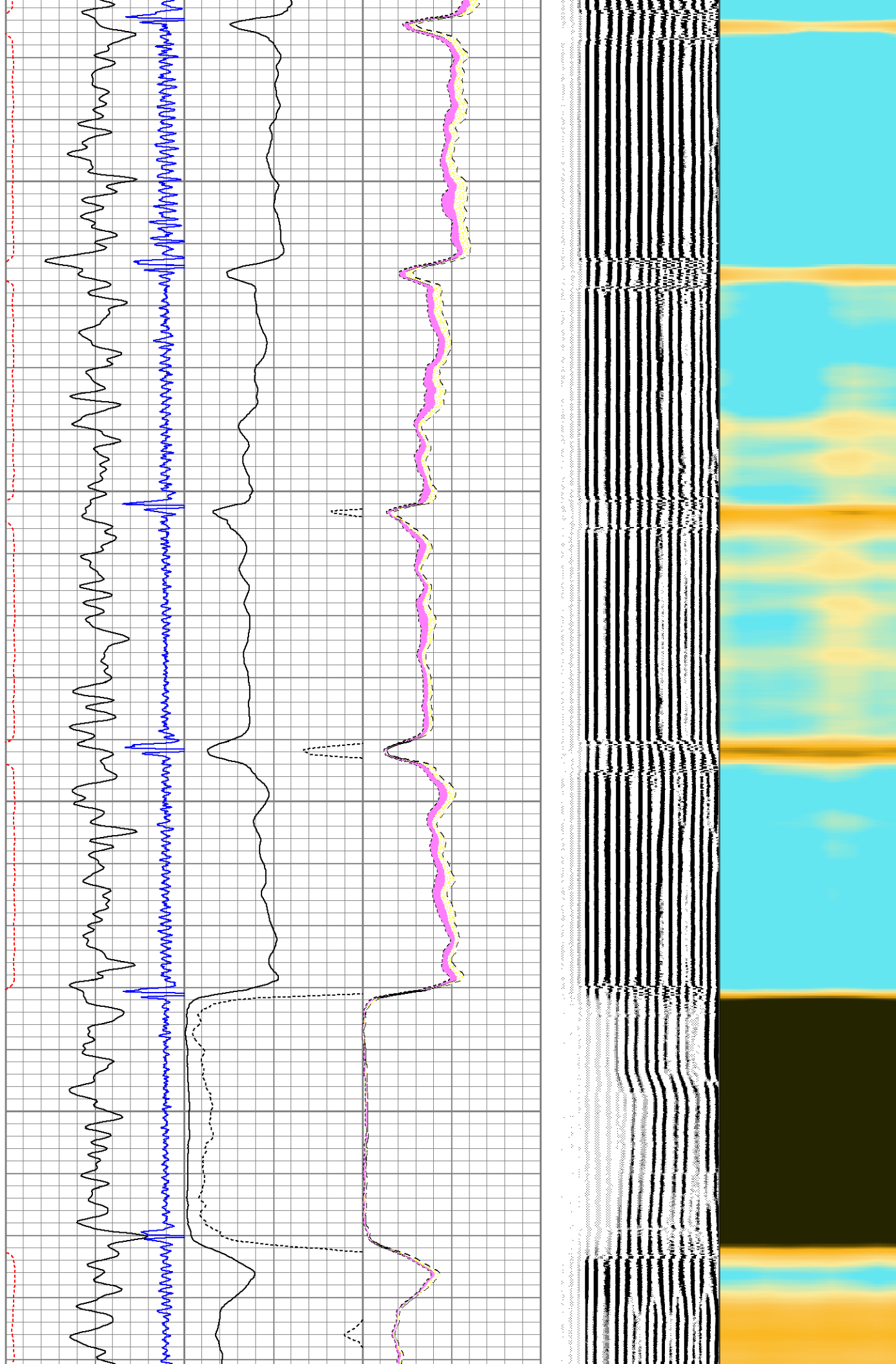
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3400



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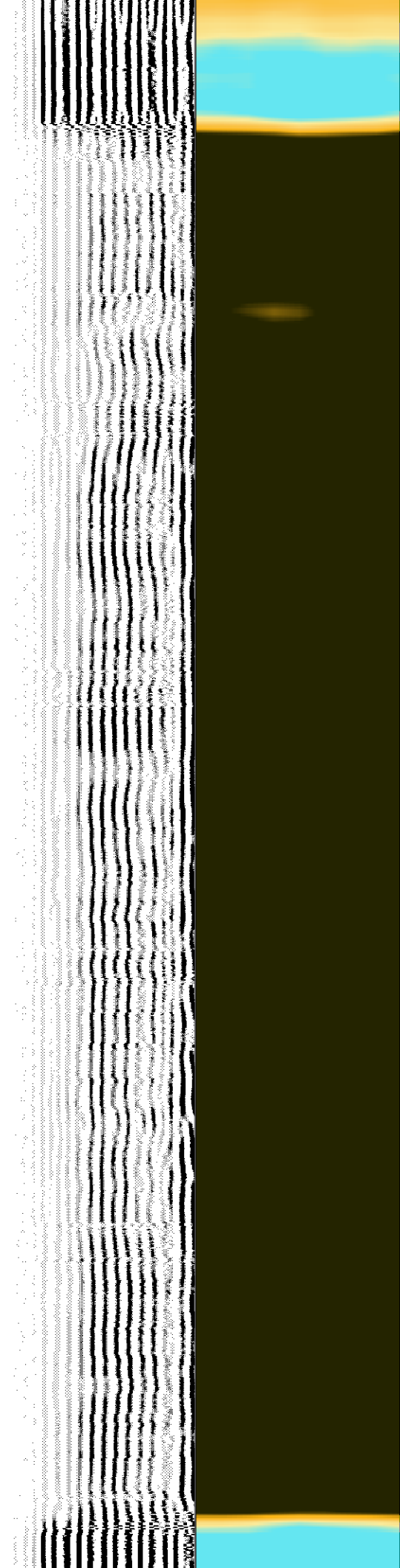
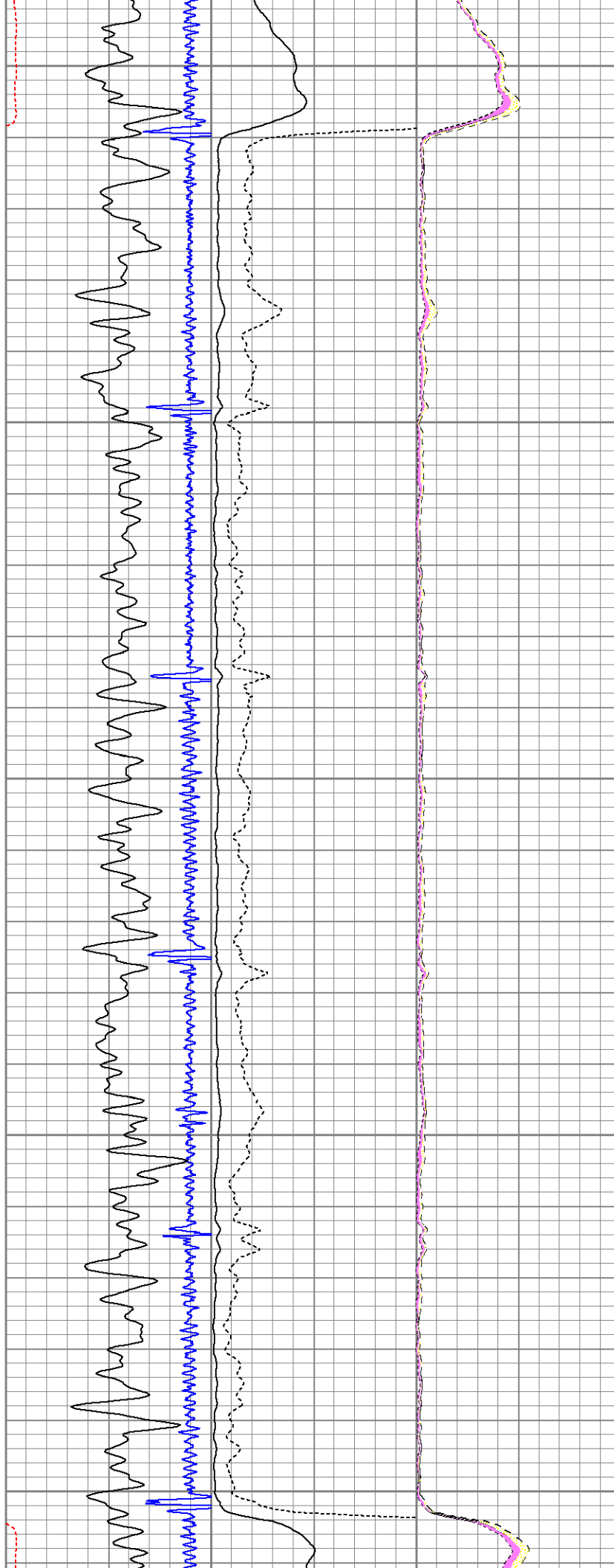
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3700

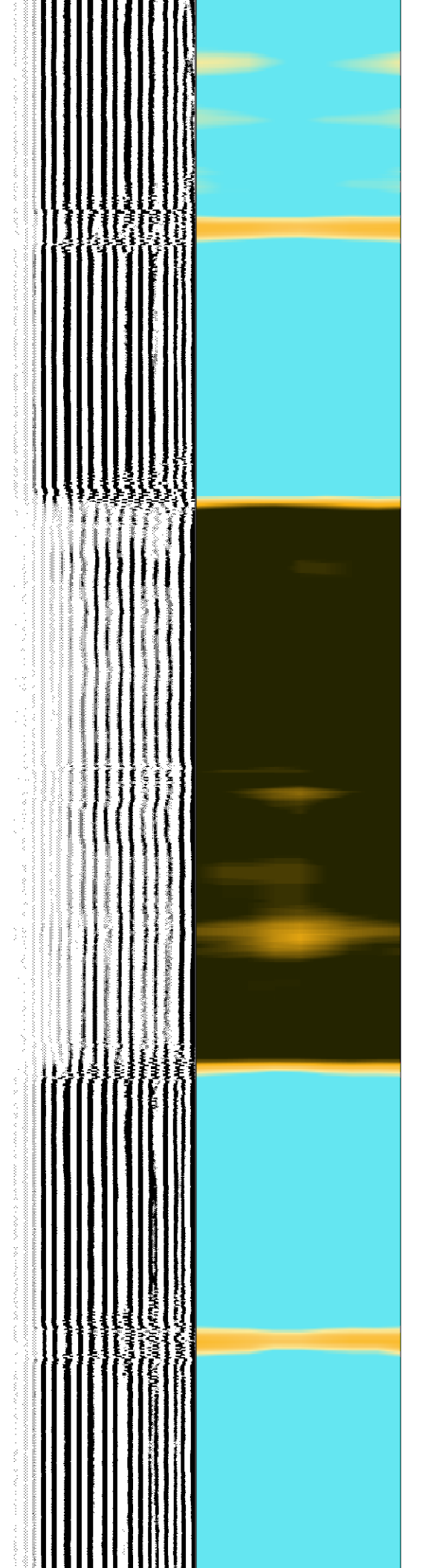
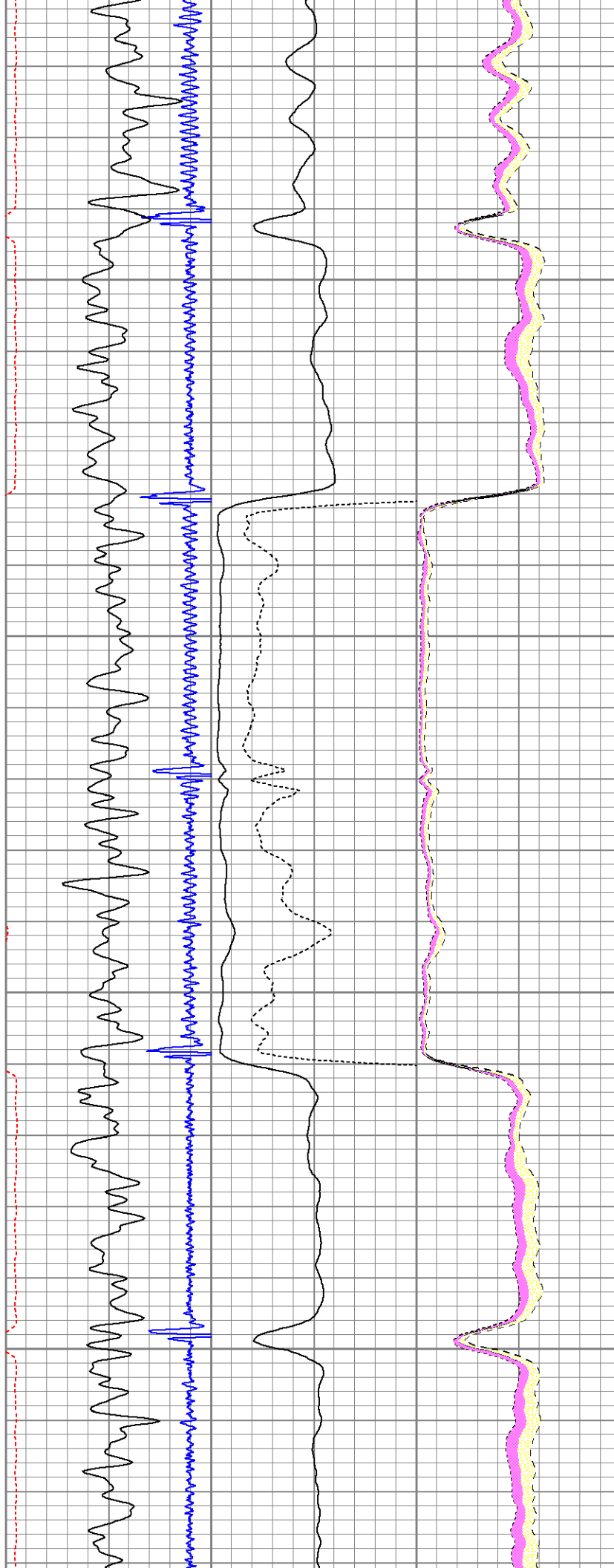
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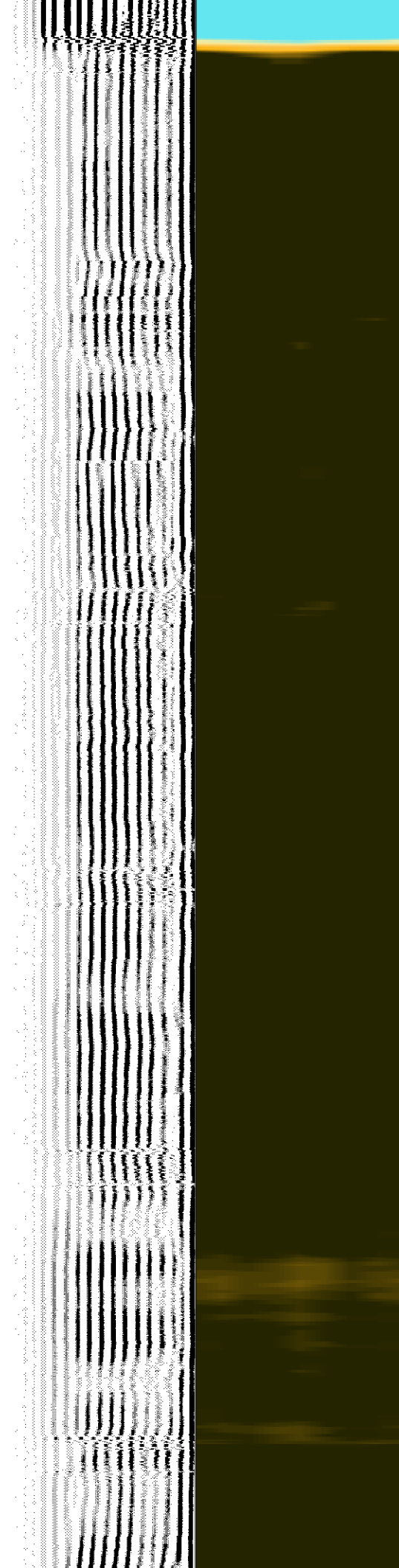
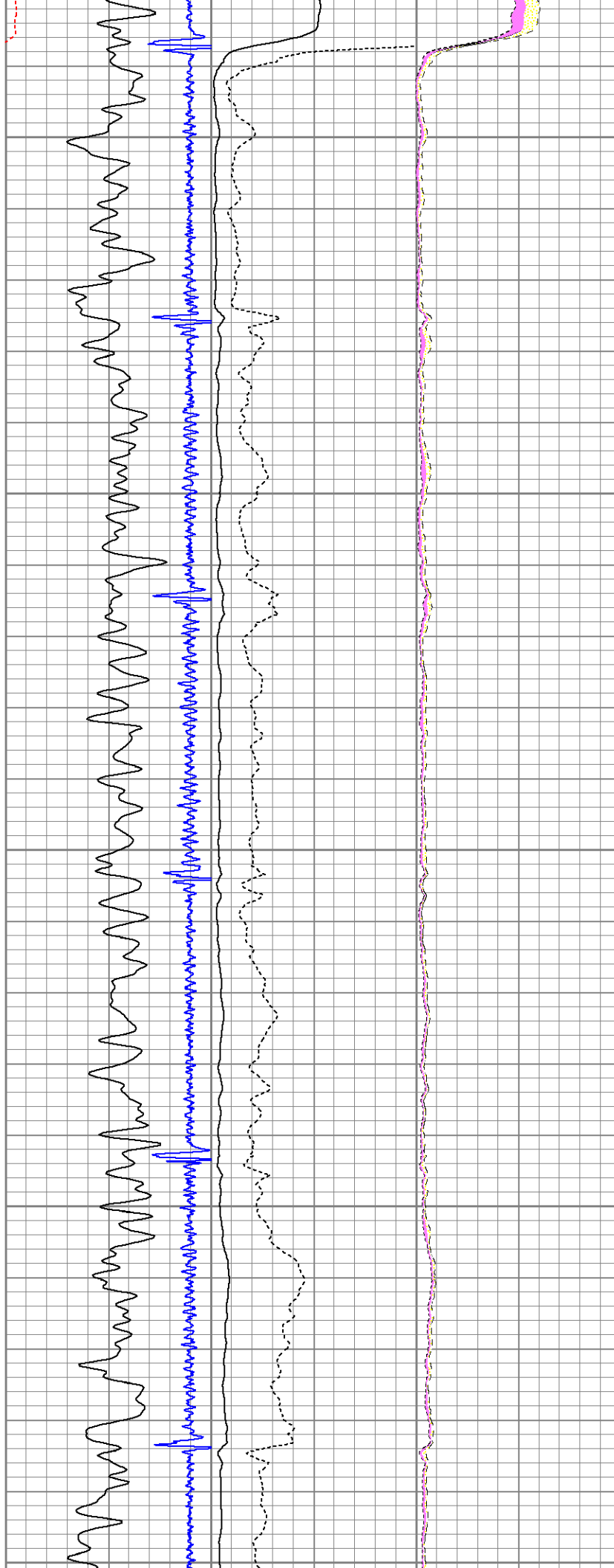
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4100



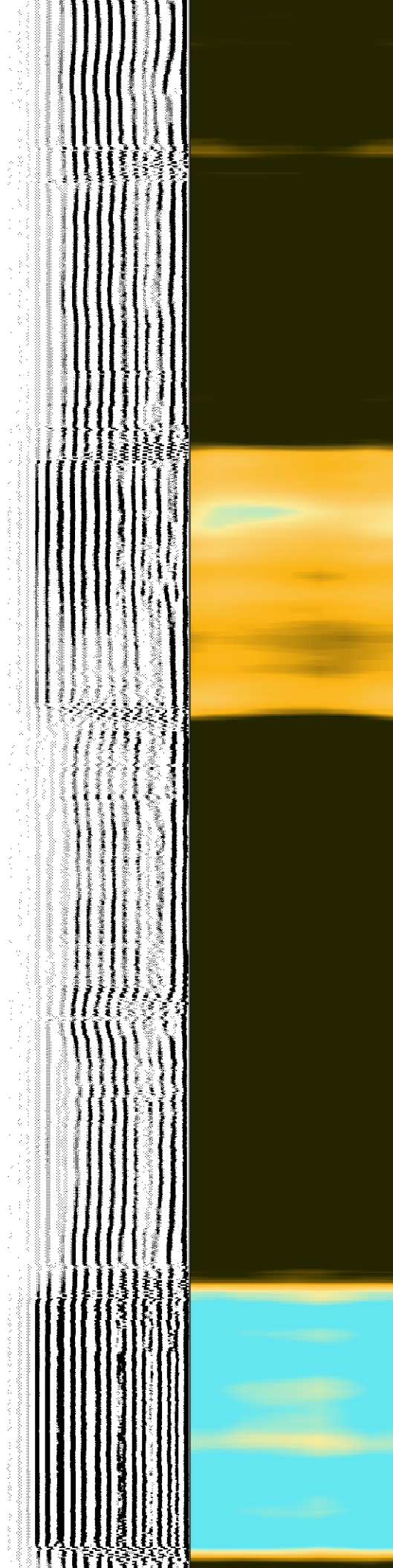
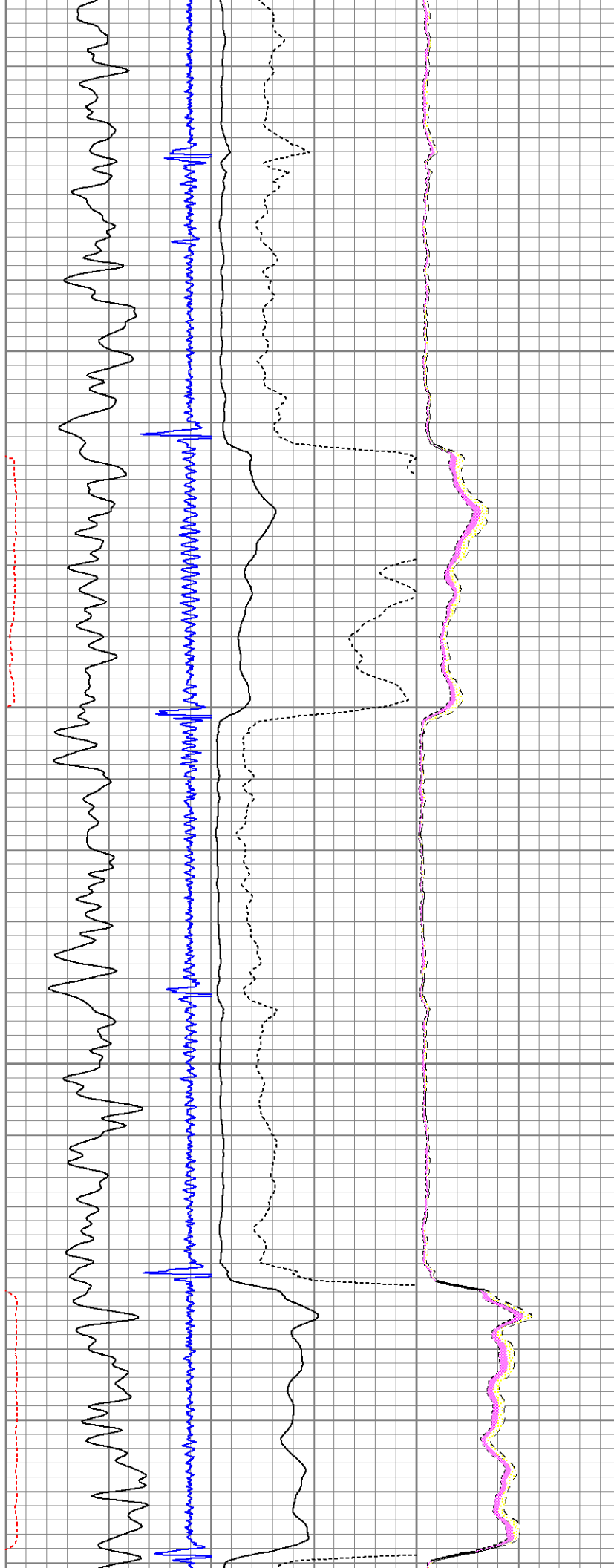
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4300



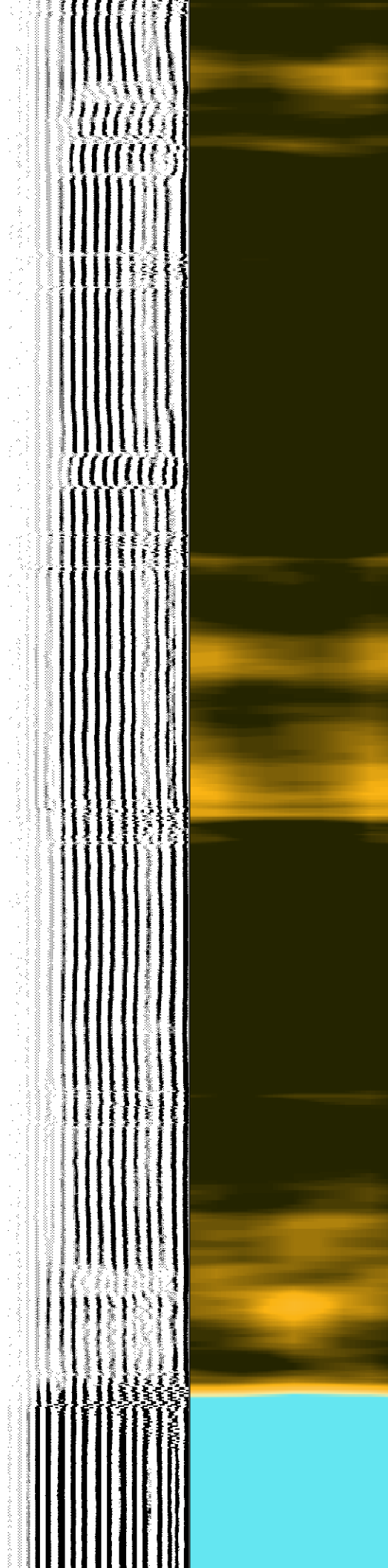
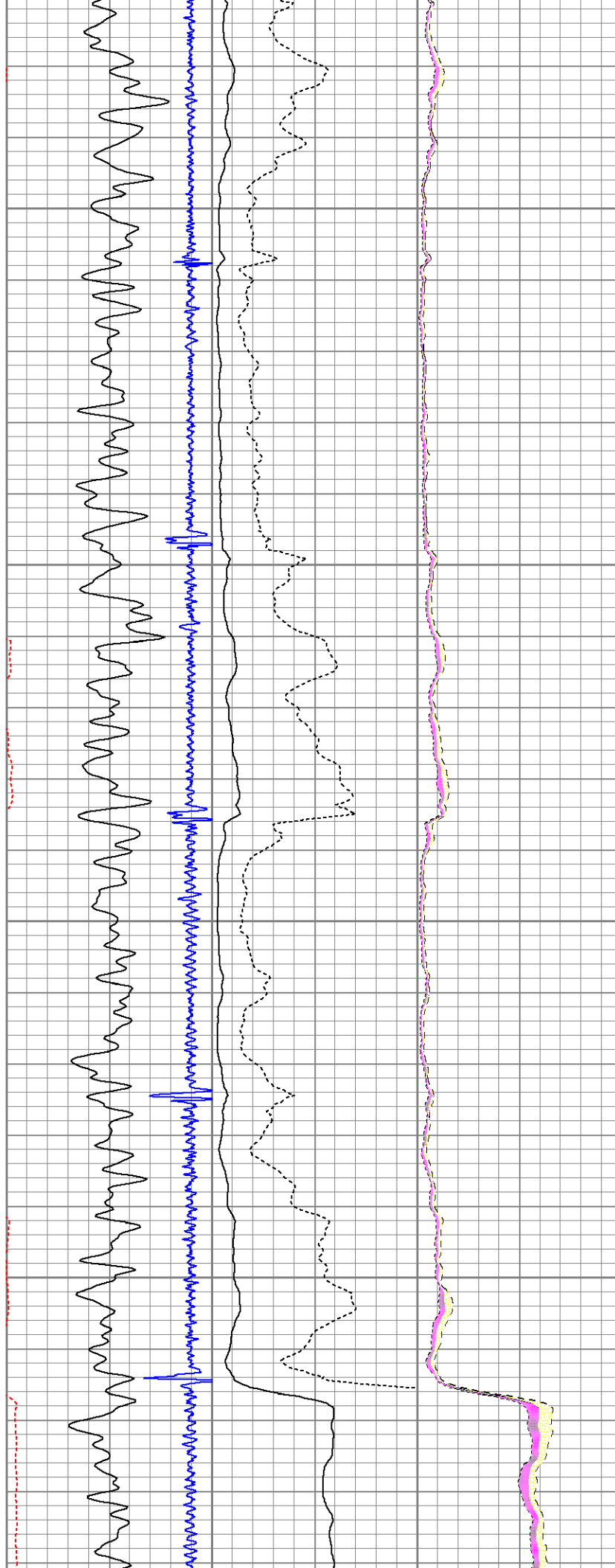
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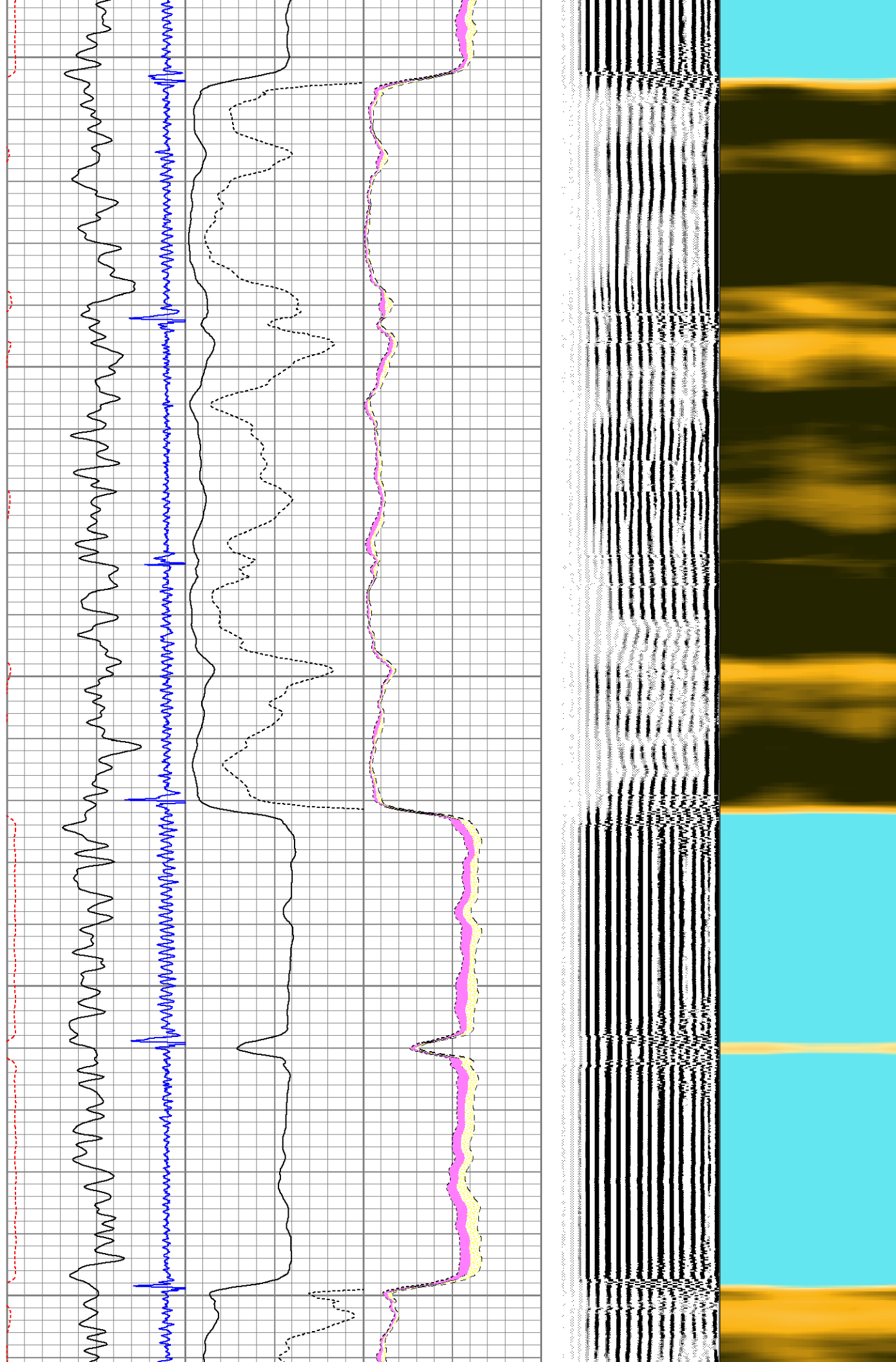
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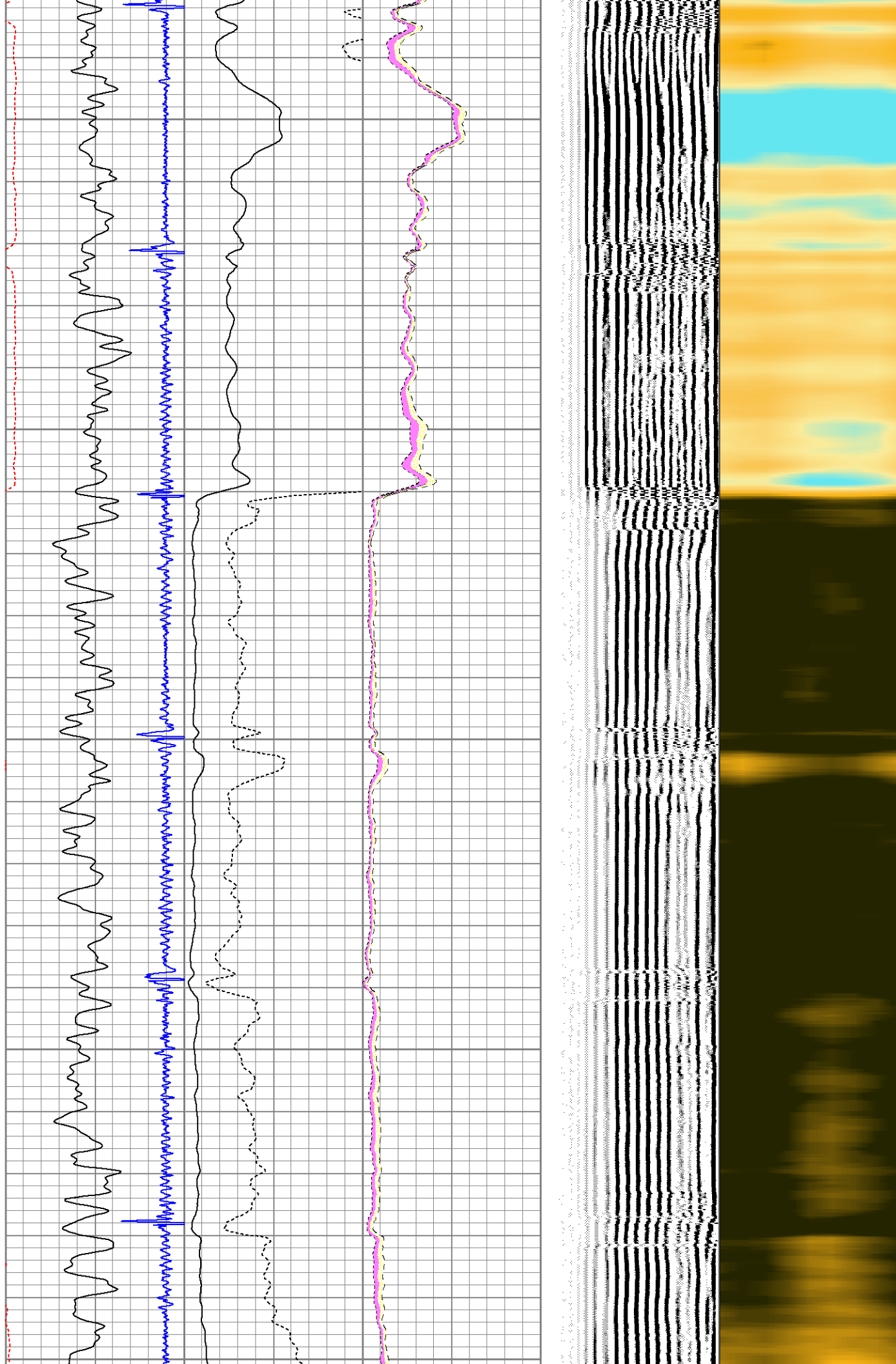
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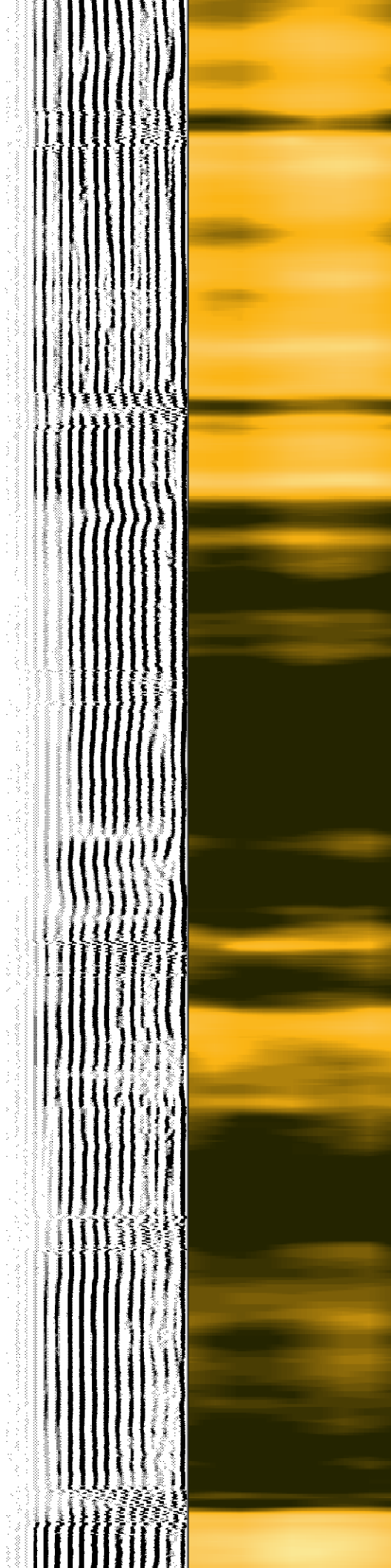
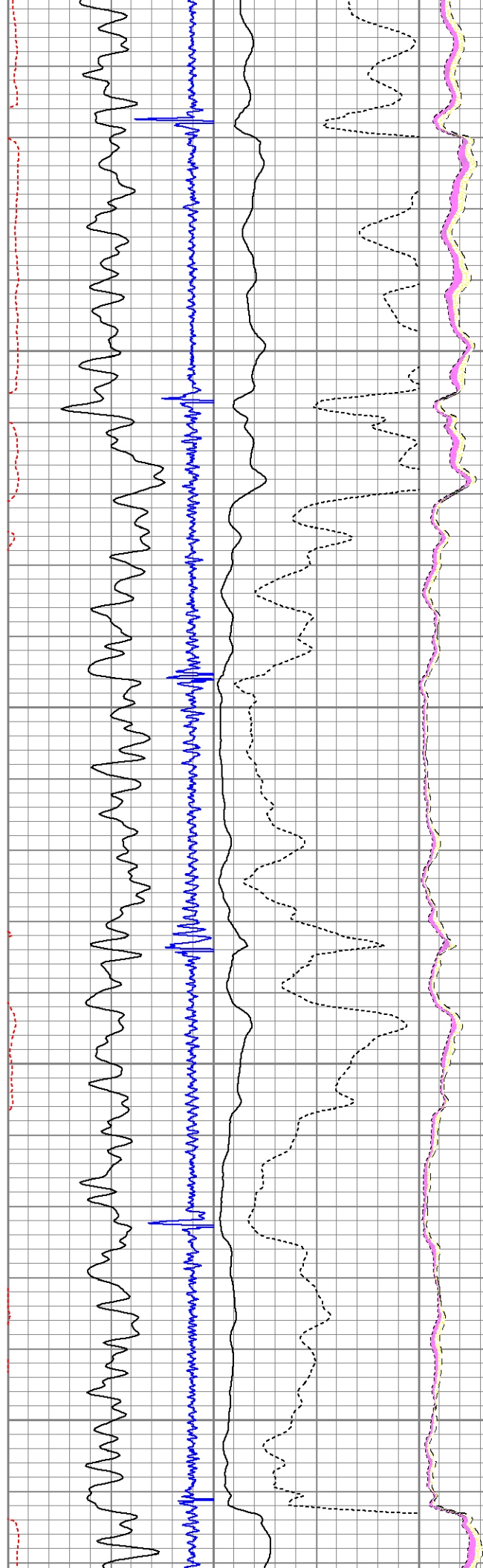
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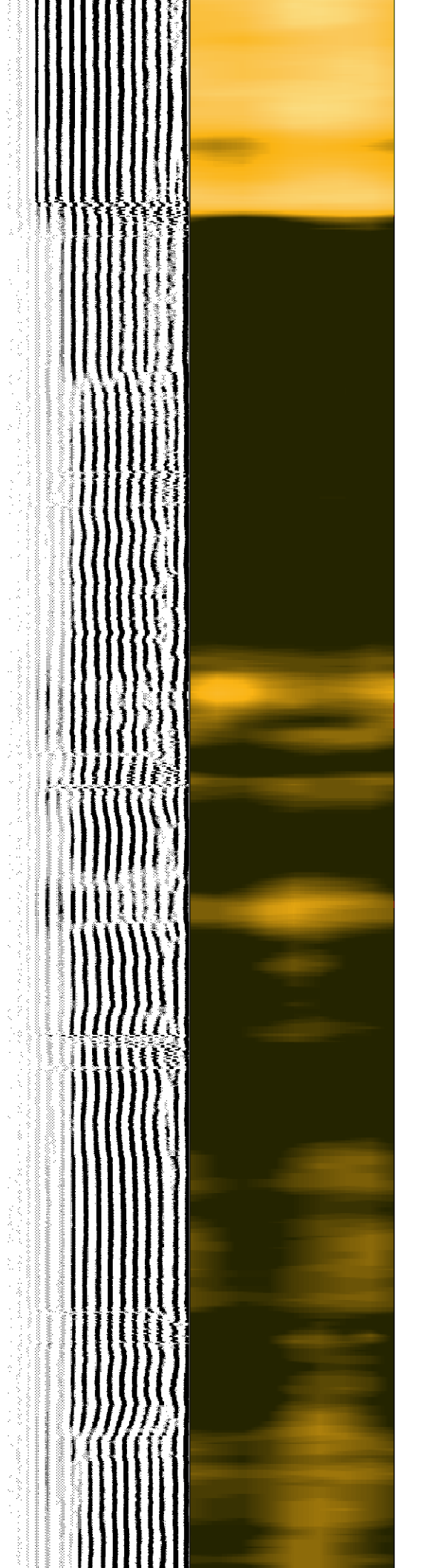
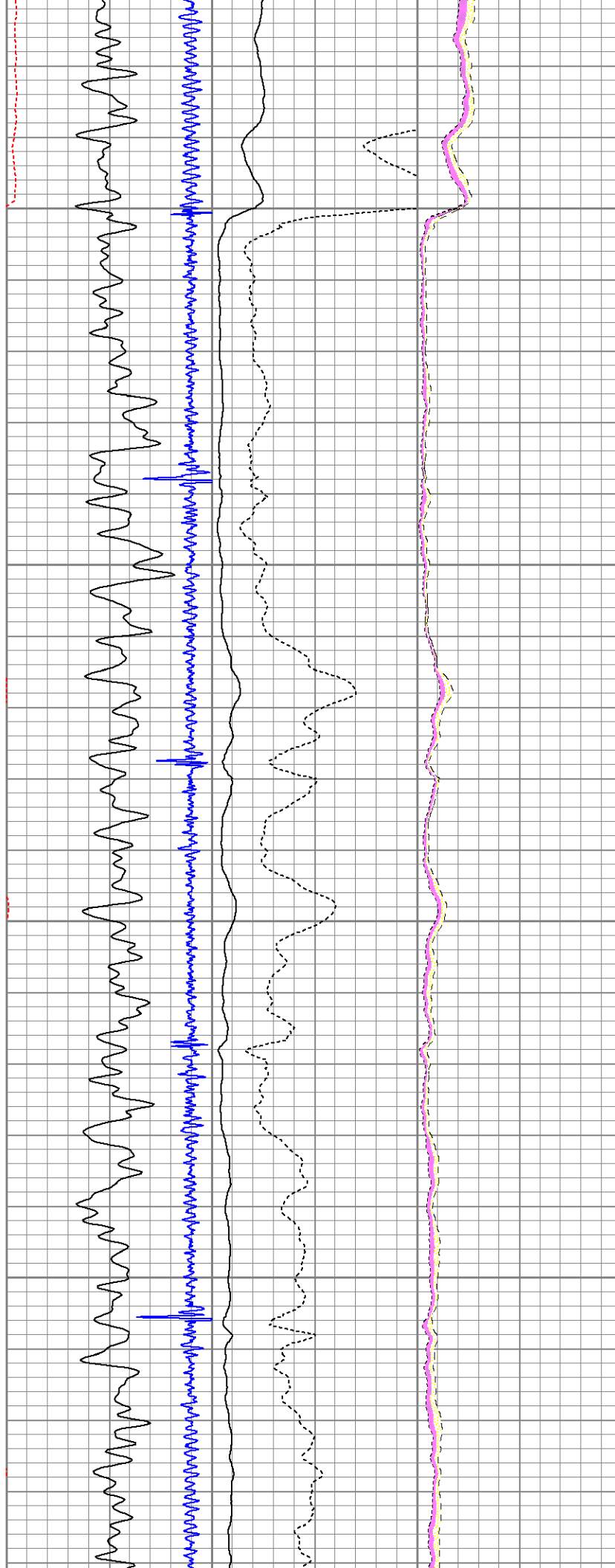
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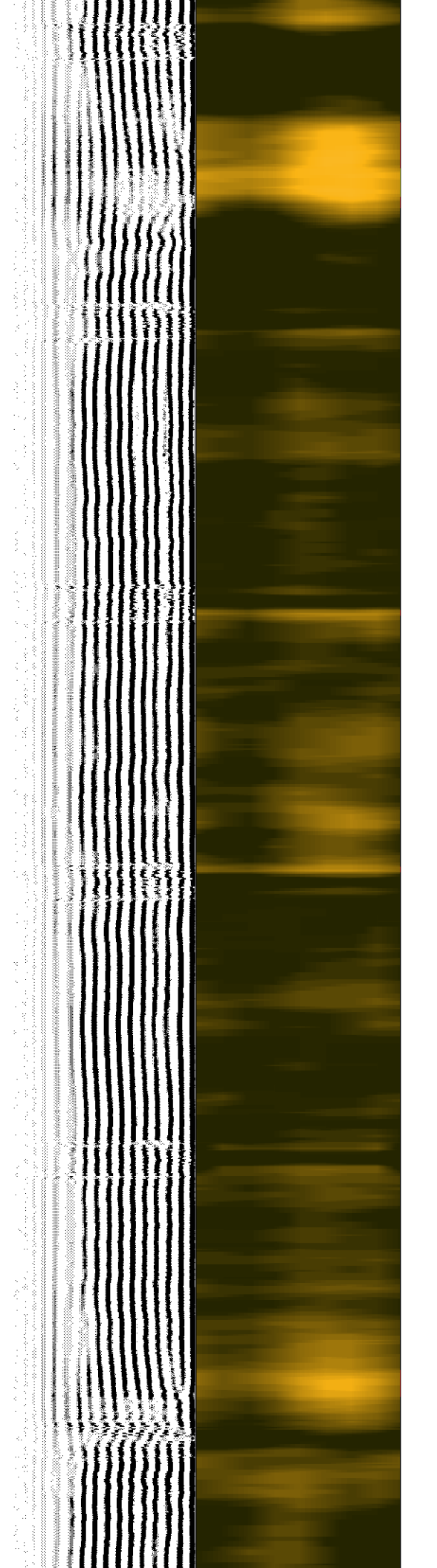
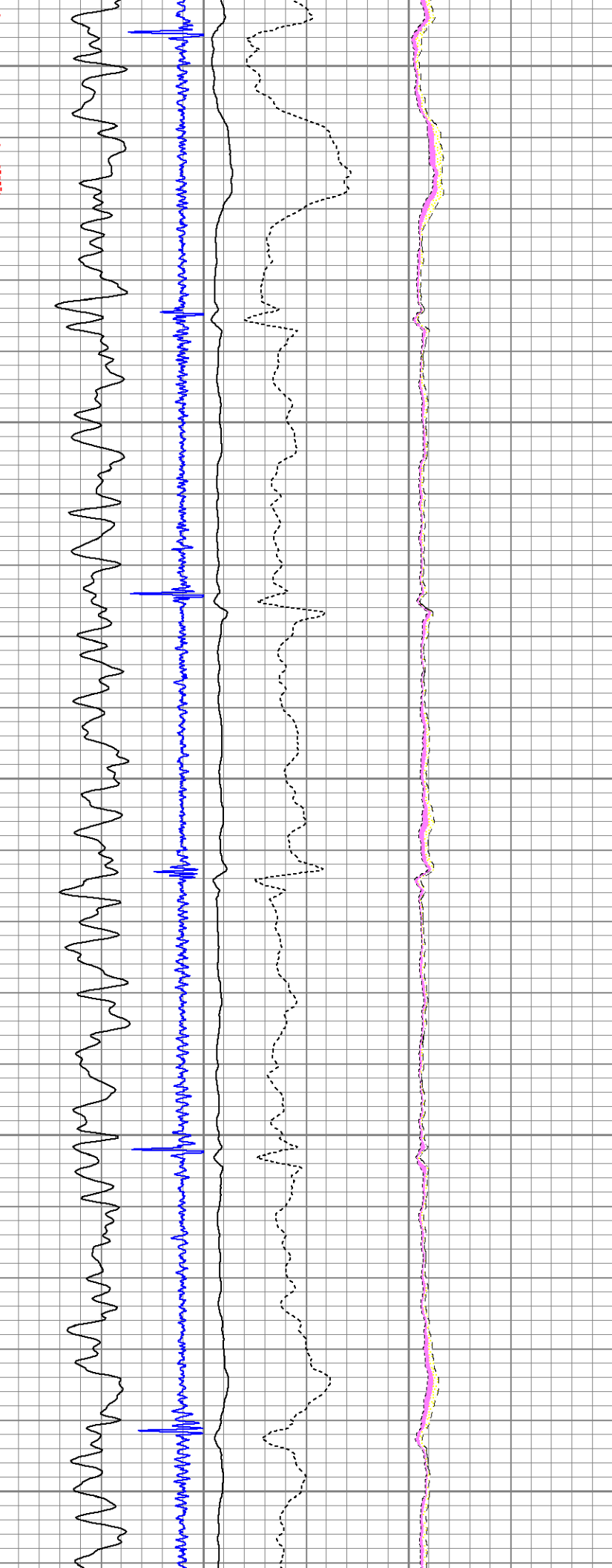
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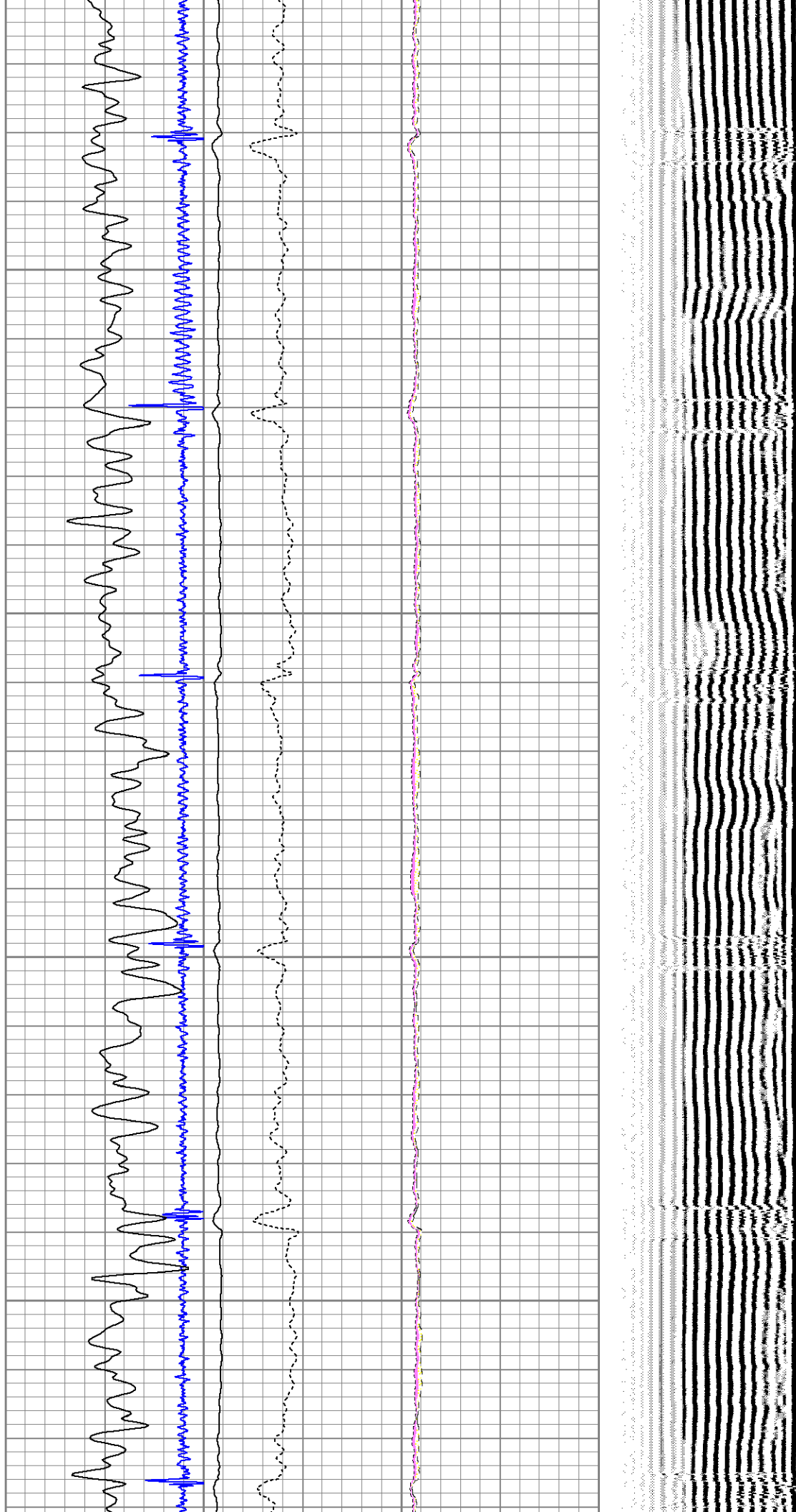
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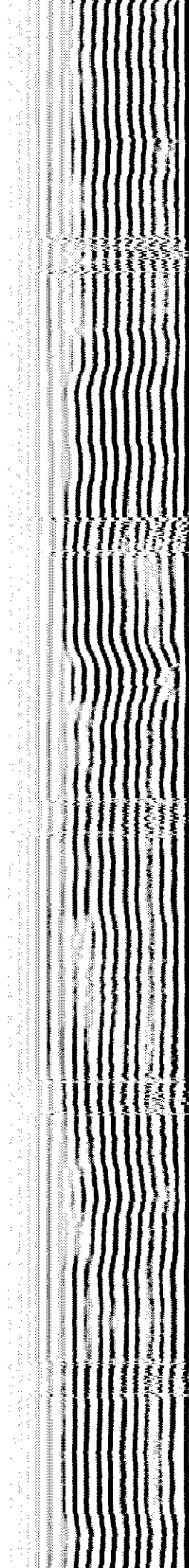
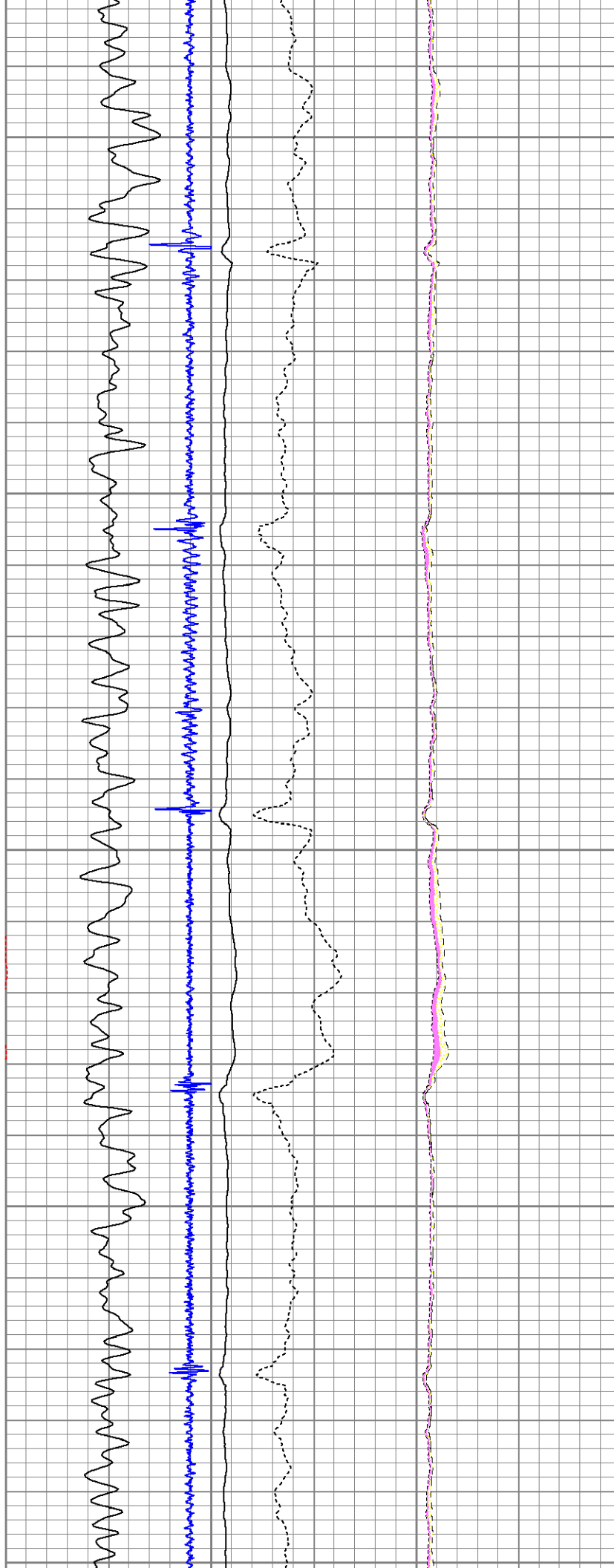
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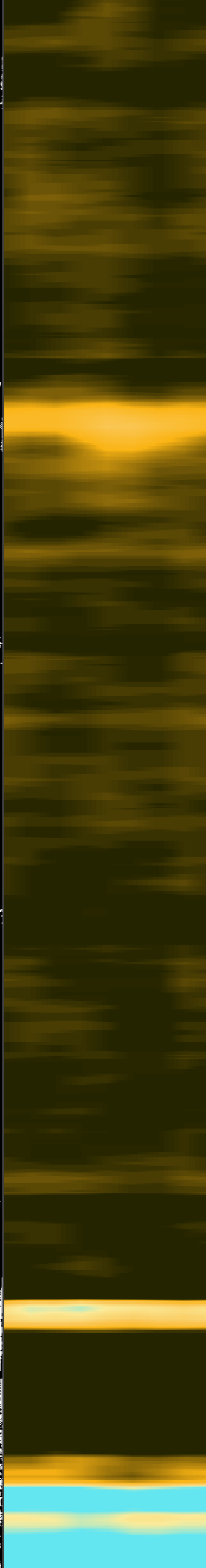
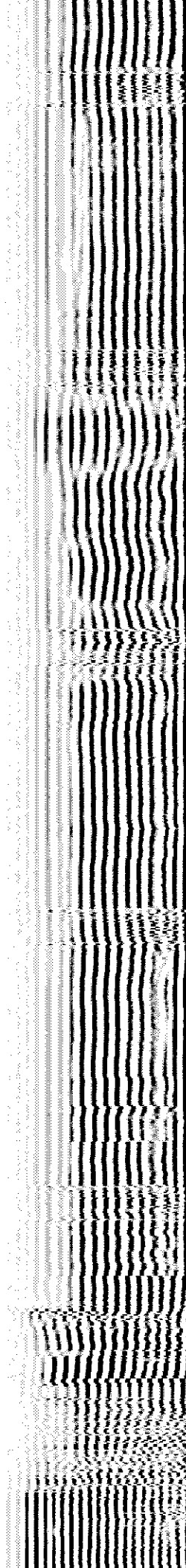
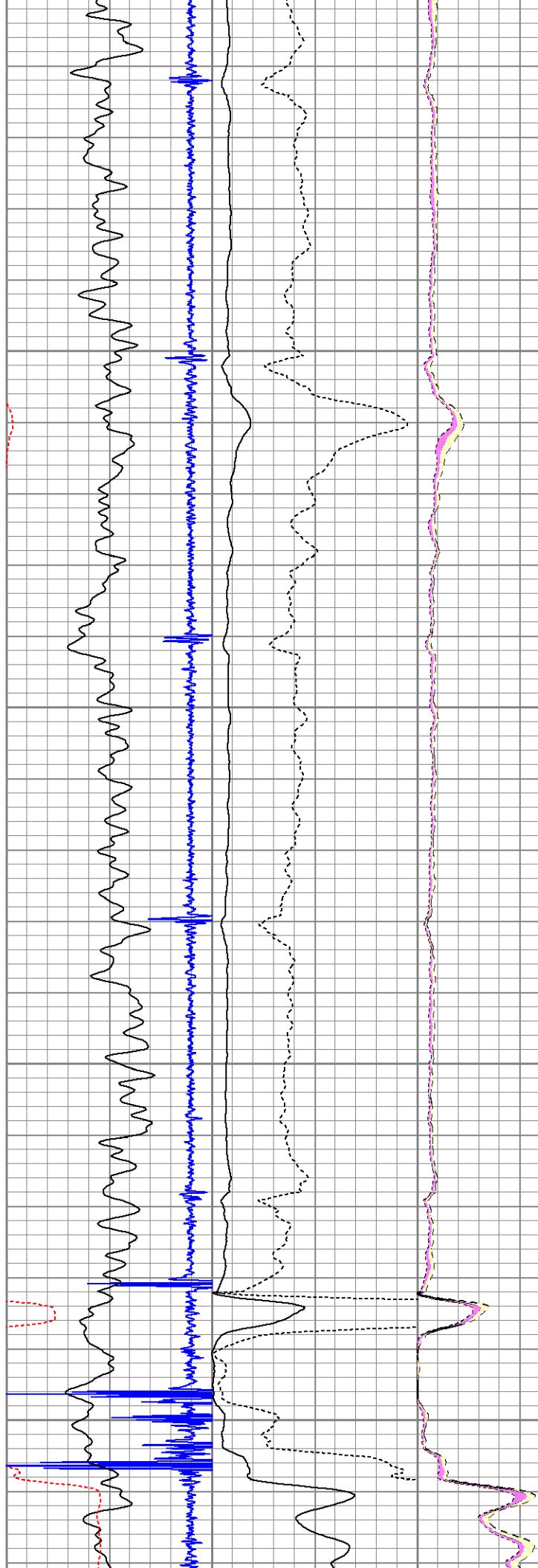
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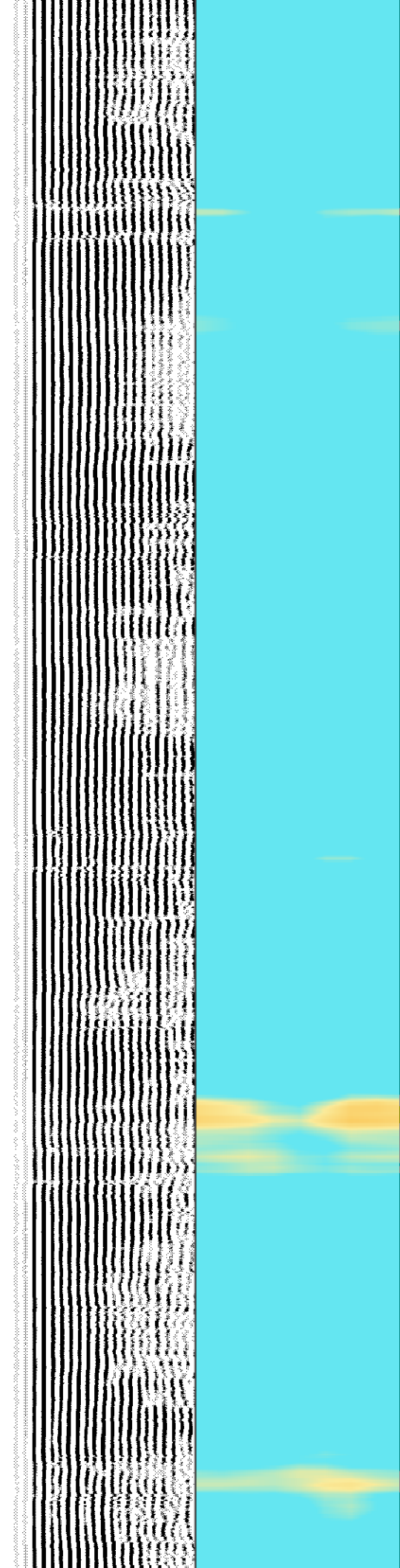
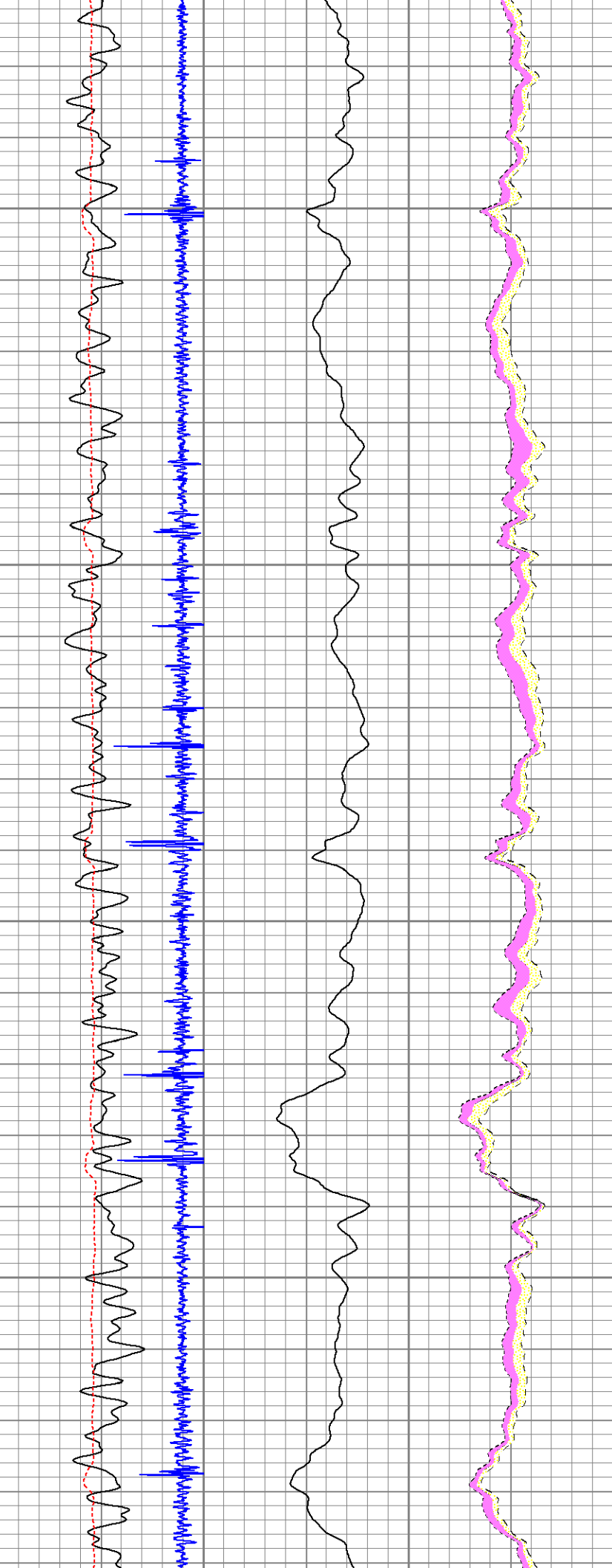
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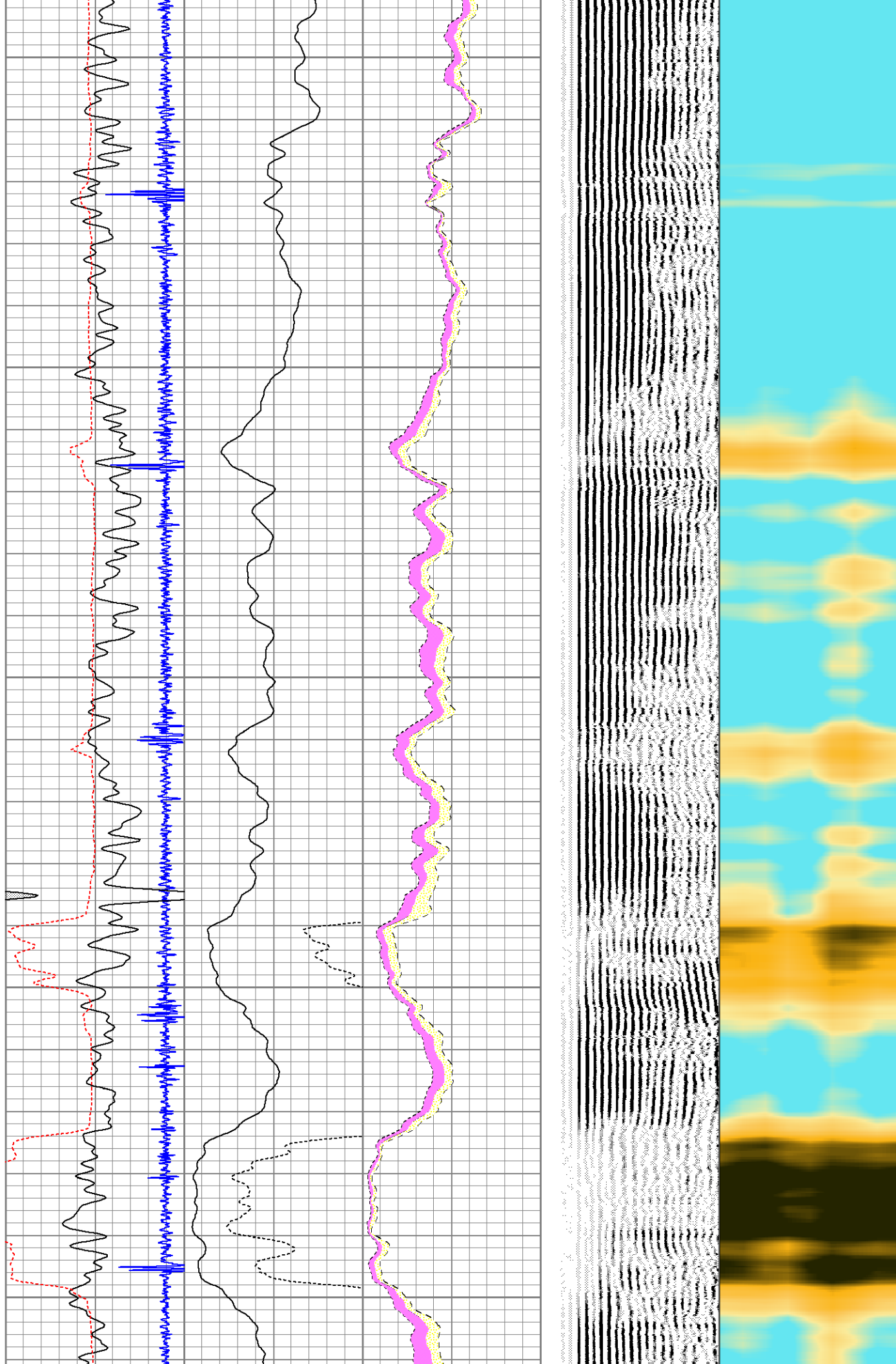
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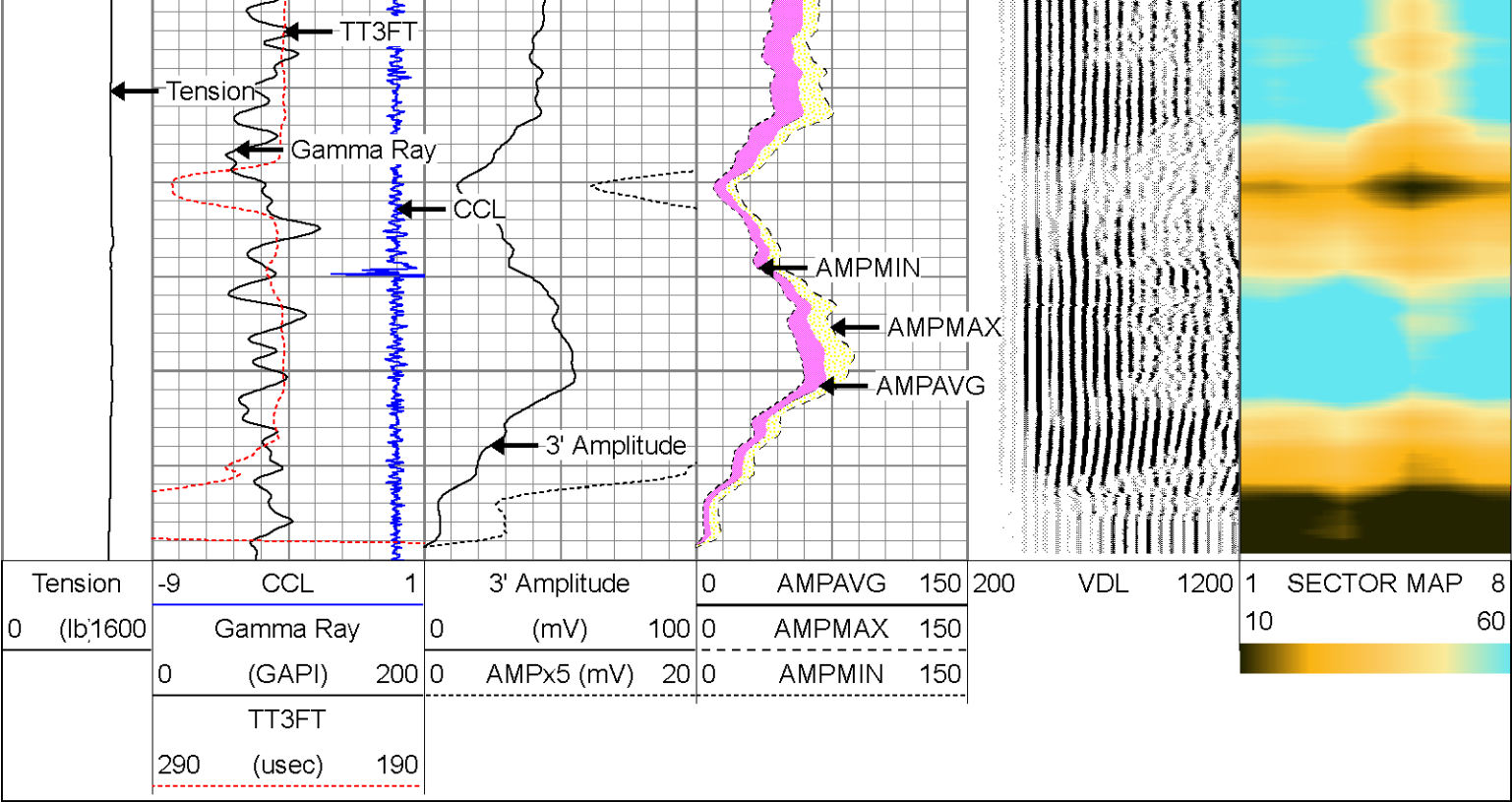



7000

7100

7200







REPEAT PASS
2800 PSI APPLIED AT SURFACE

Database File: gee 15c-25hz.db

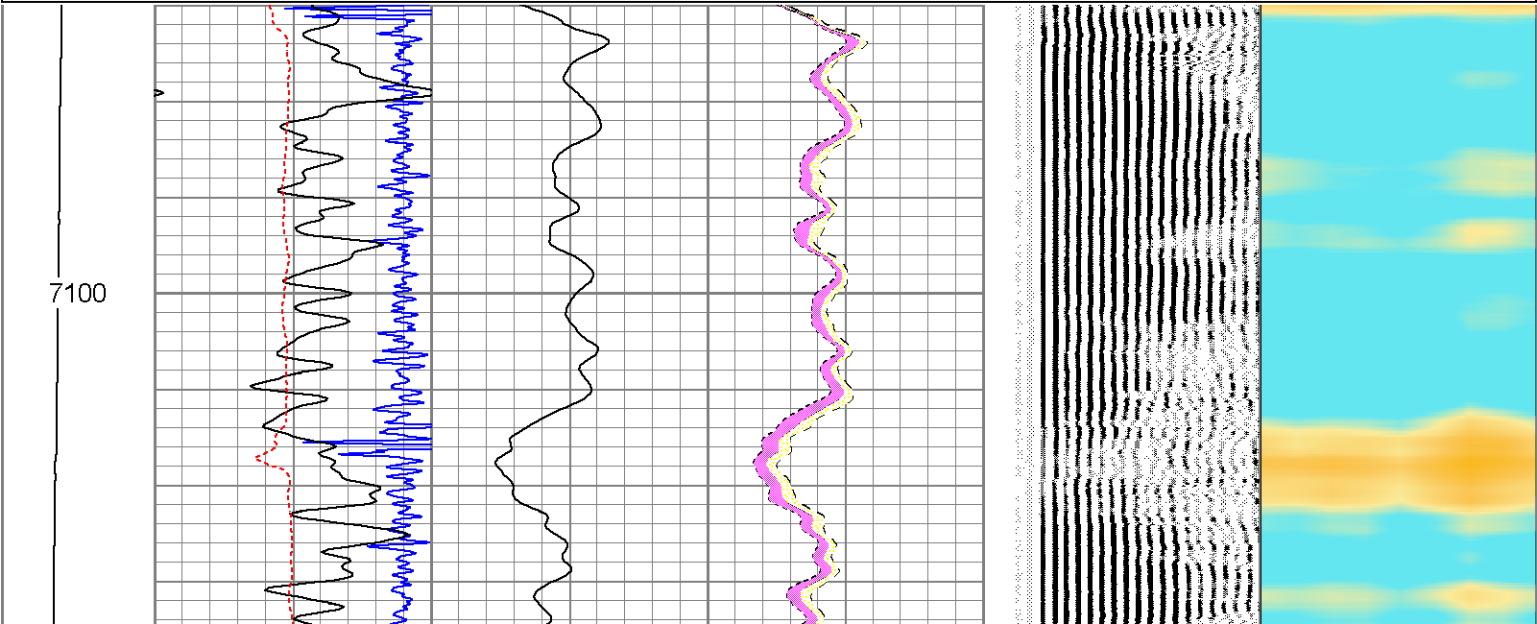
Dataset Pathname: pass3.1

Presentation Format: scbl02

Dataset Creation: Wed Mar 18 12:39:25 2015 by Calc 7.0 B1

Charted by: Depth in Feet scaled 1:240

Tension	-9	CCL	1	3' Amplitude	0	AMPAVG	150	200	VDL	1200	1	SECTOR MAP	8
0 (lb/1600)		Gamma Ray		(mV)	100	0	AMPMAX	150			10		60
	0	(GAPI)	200	0	AMPx5 (mV)	20	0	AMPMIN	150				
		TT3FT											
	290	(usec)	190										



Sensitivity:

1.0000

GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number: 111205
Tool Model: Probe275

Calibration Casing Diameter: 7.000 in
Calibration Depth: 178.005 ft

Master Calibration, performed Tue Mar 17 16:24:47 2015:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.084	1.034	1.000	62.165	64.374	-4.400
CAL	0.012	1.308				
5'	0.017	1.041	1.000	62.165	59.730	-0.012
SUM						
S1	0.060	0.867	0.000	100.000	123.978	-7.452
S2	0.063	0.936	0.000	100.000	114.618	-7.248
S3	0.071	1.094	0.000	100.000	97.799	-6.982
S4	0.076	1.234	0.000	100.000	86.370	-6.592
S5	0.084	1.253	0.000	100.000	85.547	-7.201
S6	0.081	1.127	0.000	100.000	95.661	-7.777
S7	0.072	1.005	0.000	100.000	107.118	-7.694
S8	0.065	0.908	0.000	100.000	118.608	-7.708

Internal Reference Calibration, performed Tue Dec 30 08:21:56 2014:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.012	1.308	1.000	0.000

Air Zero Calibration, performed Sat Mar 14 12:03:36 2015:

	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	



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State COLORADO