PIONEER

Pioneer Energy Services

RADIAL SECTOR BOND LOG WITH GAMMA RAY

Company CARRIZO NIOBRARA LLC
Well TIMBRO RANCH 2-3-9-59
Field WILDCAT
County WELD
State CO

Company **CARRIZO NIOBRARA LLC**
Well **TIMBRO RANCH 2-3-9-59**
Field **WILDCAT**
County **WELD** State **CO**

Location: API # : 05-123-40454
LAT: 40.786230
LONG: -103.963370
316' FNL 2329' FEL
SEC 3 TWP 9N RGE 59W

Other Services

Permanent Datum	KB'	Elevation	5066
Log Measured From	KB		
Drilling Measured From	GL		

Elevation	
K.B.	5083
D.F.	5082
G.L.	5066

Date of Service	12/25/14		
Run Number	ONE		
Depth Driller or PBTD	10553		
Depth Logger	6400		
Bottom Log Interval	6397		
Top Log Interval	SURFACE		
Open Hole Size	8.5"		
Type Fluid	MUD		
Fluid Level	SURFACE		
Fluid Density	9.7 PPG		
Max. Recorded Temperature	NA		
Max. Wellhead Pressure	ZERO		
Wellhead Connection	OPEN		
Estimated Cement Top	1638'		
Unit Number	P-75		
Wireline Size	9/32		
Location	FT. MORGAN		
Recorded By	E. HESSLER		
Witnessed By	B. MCNEESE		

	Size	Wt/Ft	Top	Bottom
Tubing Record				
Surface Casing				
Production Casing	7"	23#	SURFACE	6421'
Liner Record				

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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

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.
SO: # 2-208235

THANK YOU FOR USING PIONEER Energy SERVICES

Your Pioneer Energy Services Crew
Engineer: E. HESSLER
Operator: A. SPILLMAN
Operator: D. MARTIN
Operator:

Tool Data - Services

Serial Number

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			PTS275	2.83	2.75	
			RBT-Probe275 (111205) Probe Radial Bond Digital	8.92	2.75	100.00
WVF3FT	11.08					
WVFCAL	11.08					
WVFS1	11.08					
WVFS2	11.08					
WVFS3	11.08					
WVFS4	11.08					
WVFS5	11.08					
WVFS6	11.08					
WVFS7	11.08					
WVFS8	11.08					
WVF5FT	10.08					
			PTS275	2.83	2.75	
CCL	3.75					
GR	2.17		CNT-Probe_B (275)	4.00	2.75	40.00

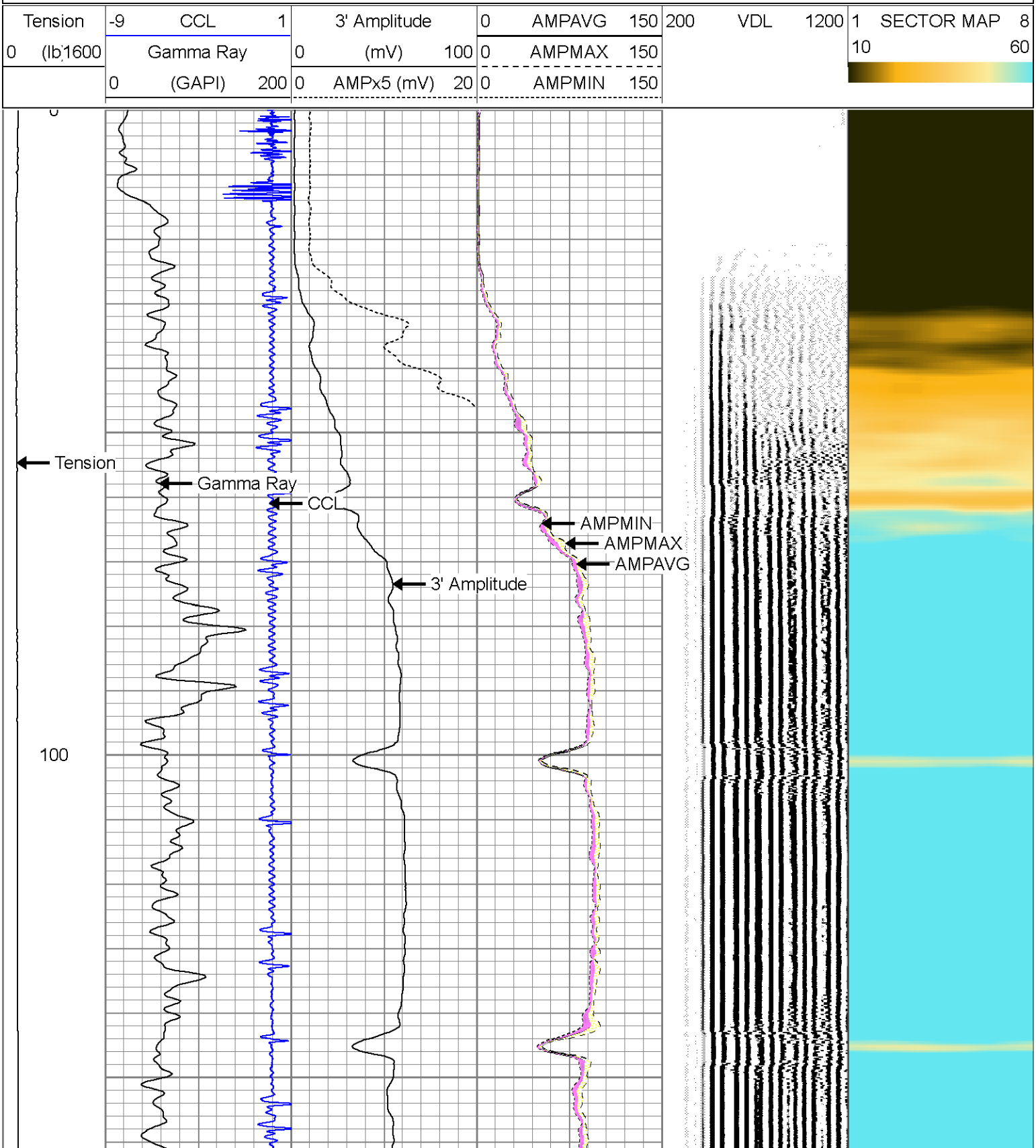
Dataset:	carrizo_timbroranch.db: field/well/run1/pass10
Total Length:	18.58 ft
Total Weight:	140.00 lb
O.D.	2.75 in

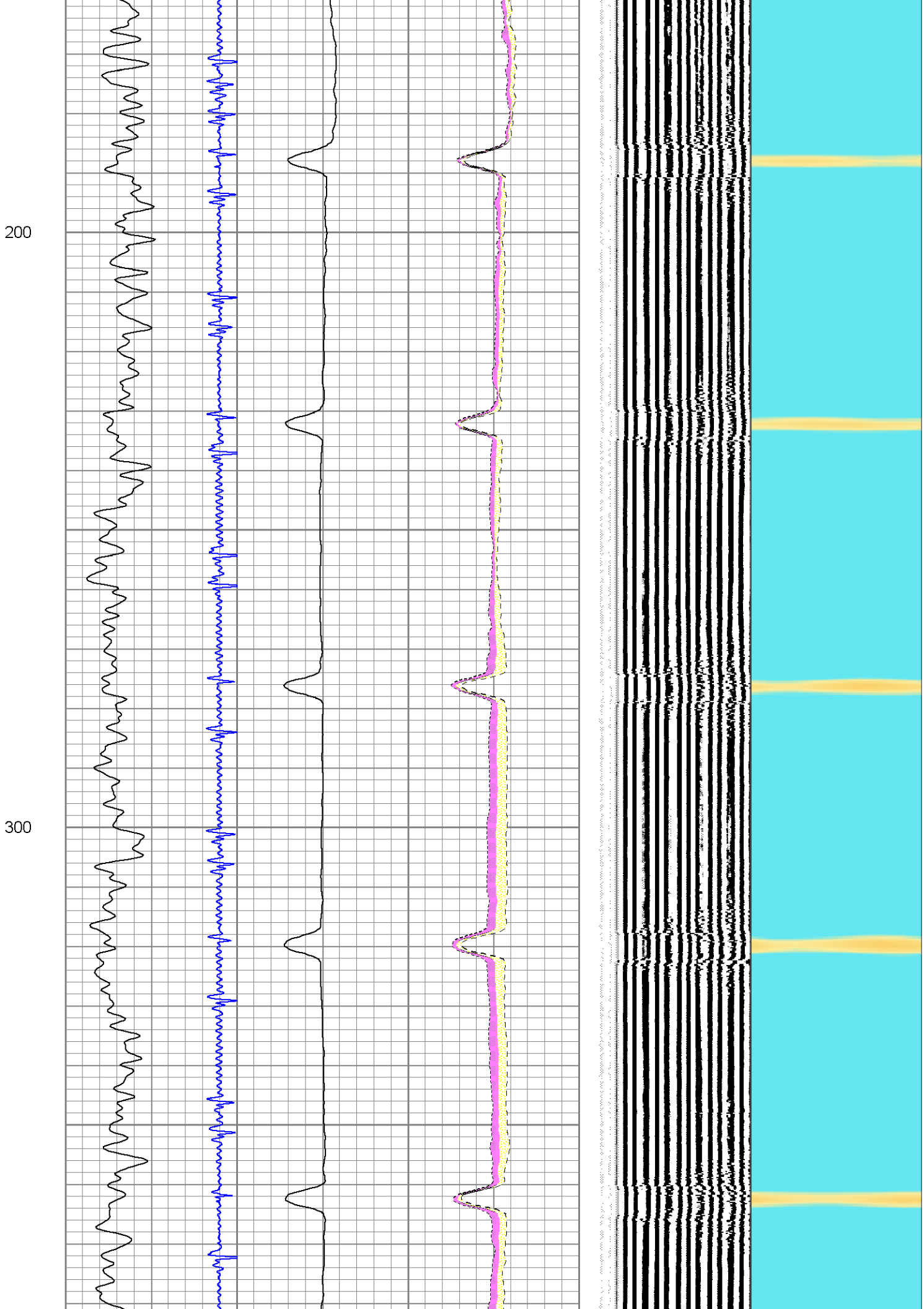
MAIN LOG

ZERO PSI APPLIED AT SURFACE

PIONEER
Pioneer Energy Services

Database File:	carrizo_timbroranch.db
Dataset Pathname:	pass9.1
Presentation Format:	scbl02
Dataset Creation:	Thu Dec 25 03:35:39 2014 by Calc 7.0 B1
Charted by:	Depth in Feet scaled 1:240

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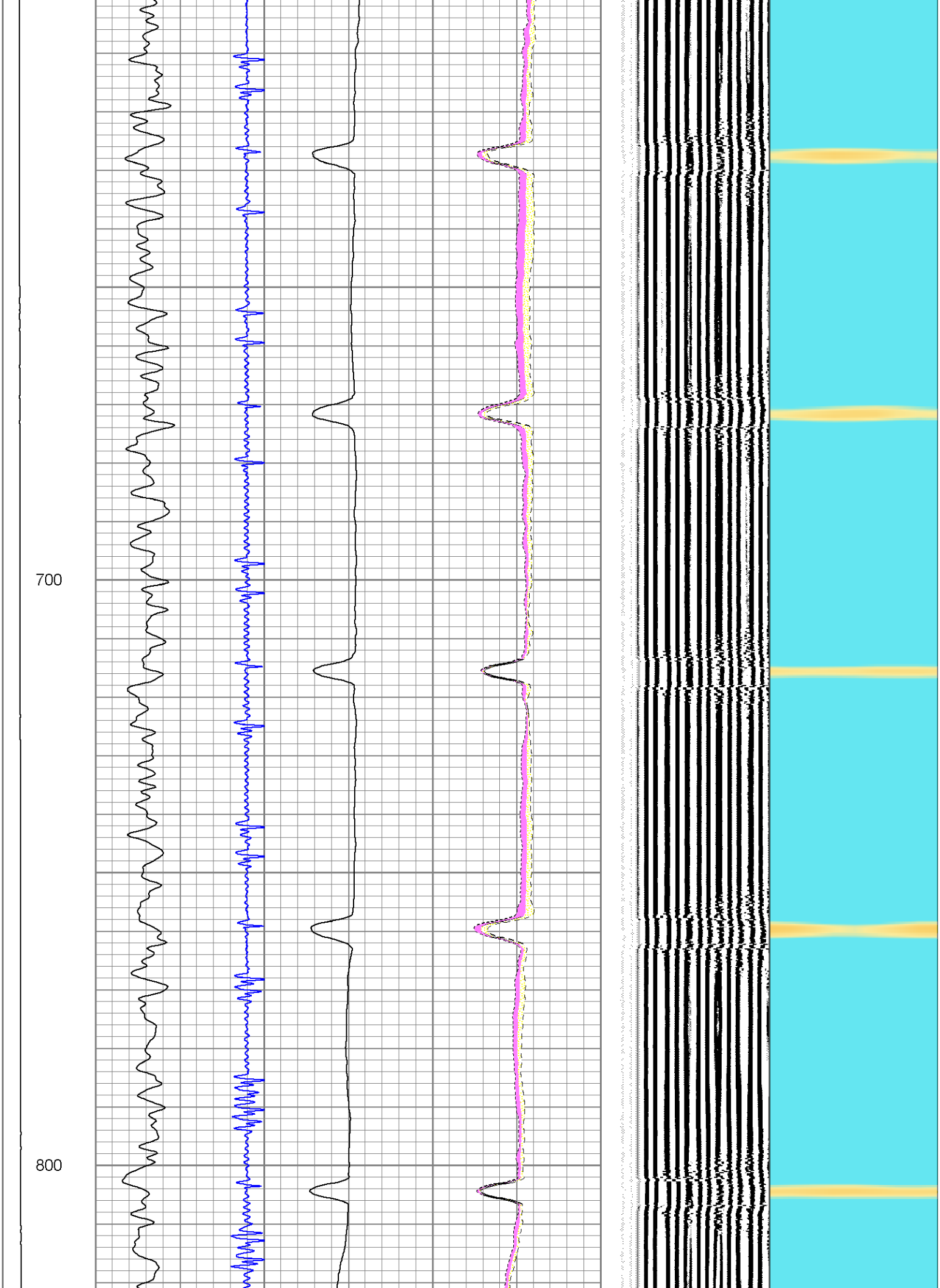
300

400
500
600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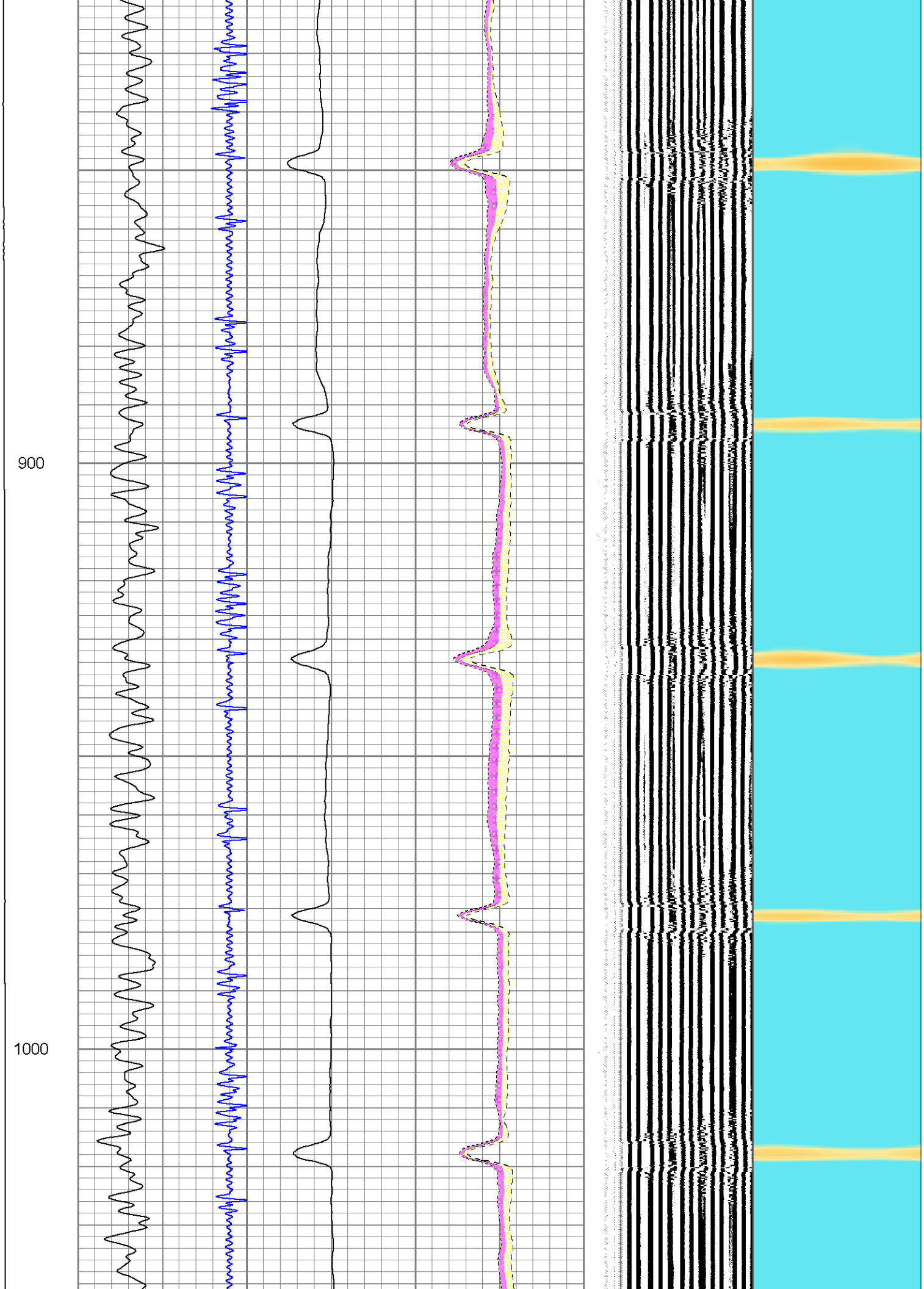
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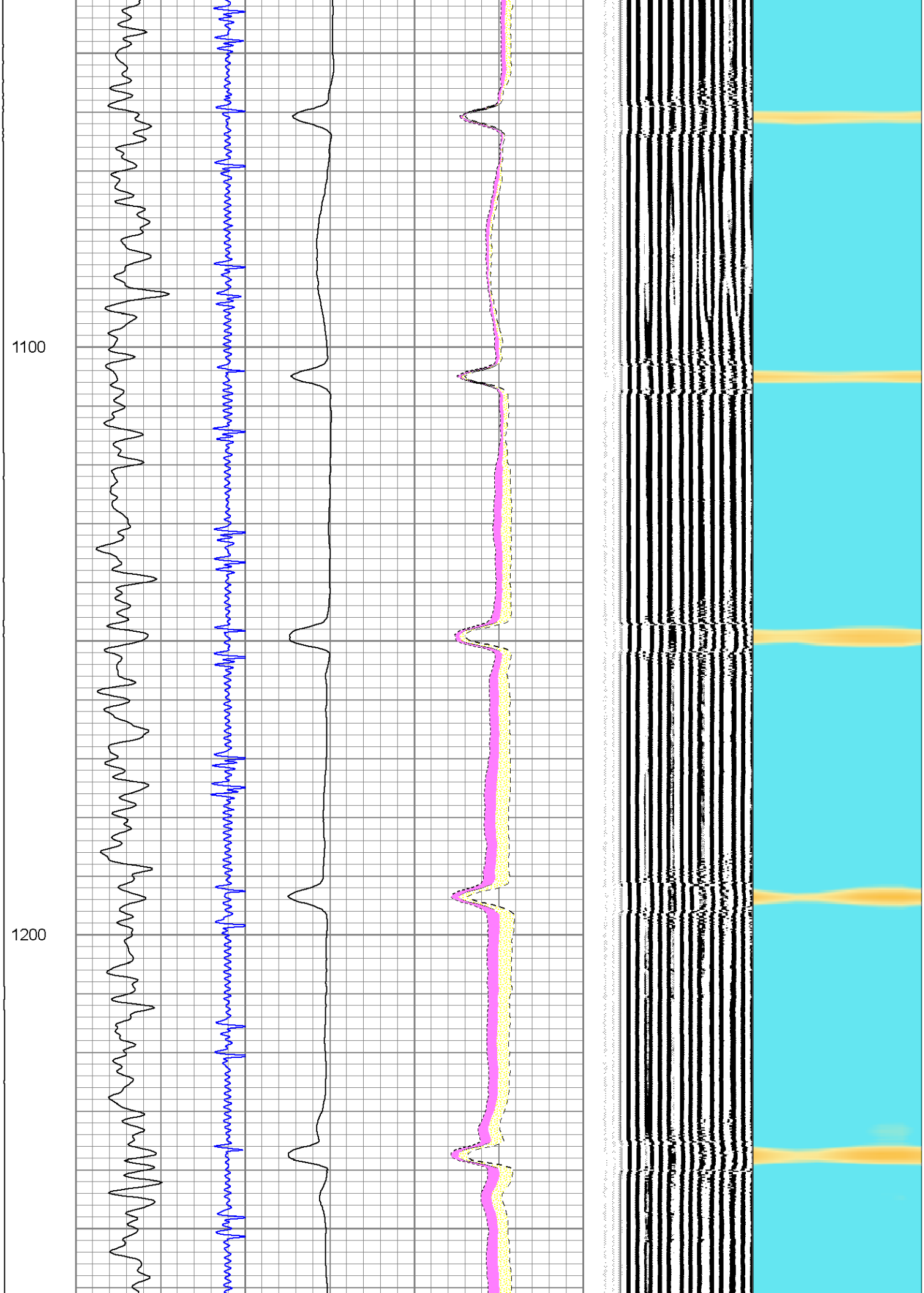
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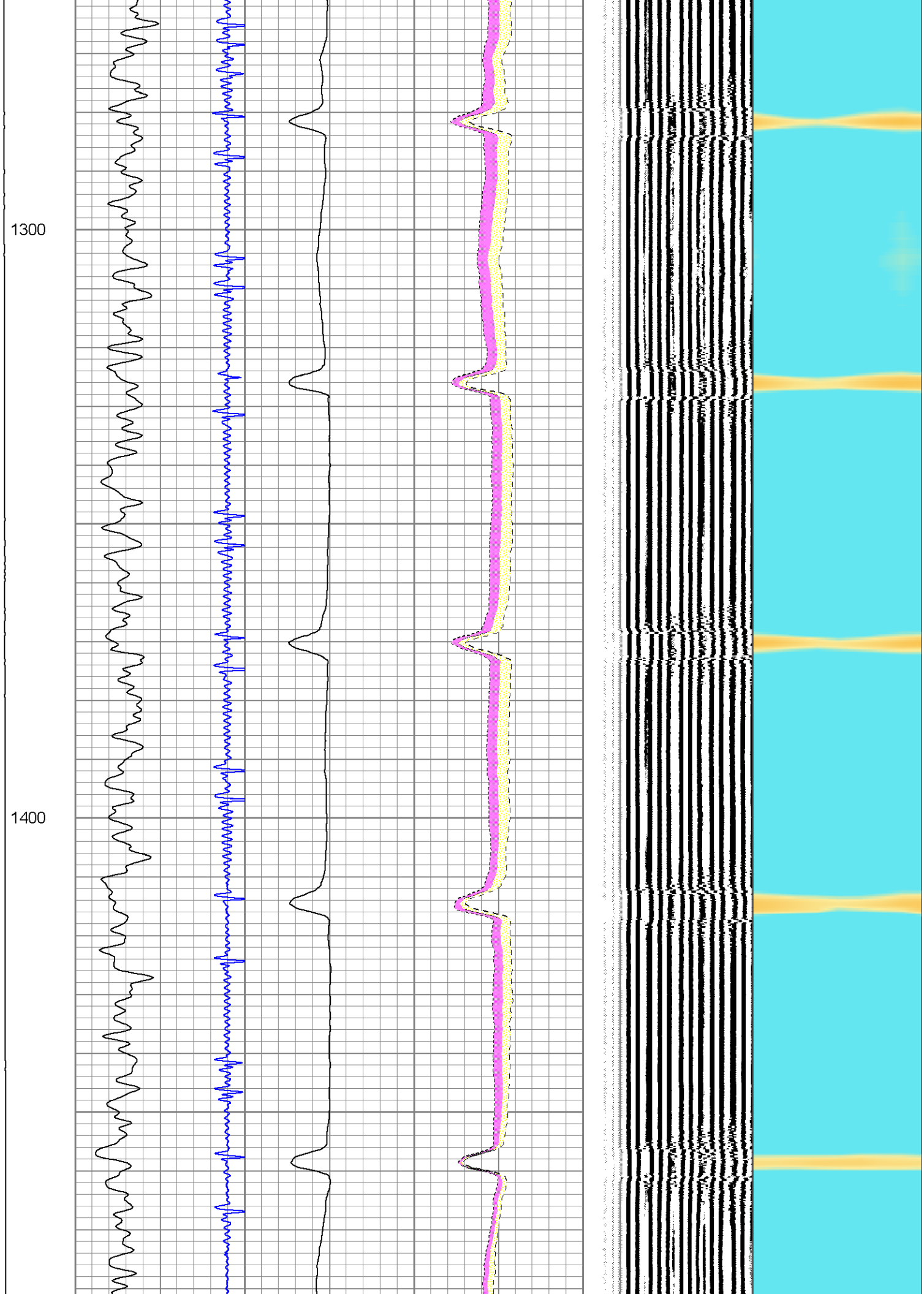
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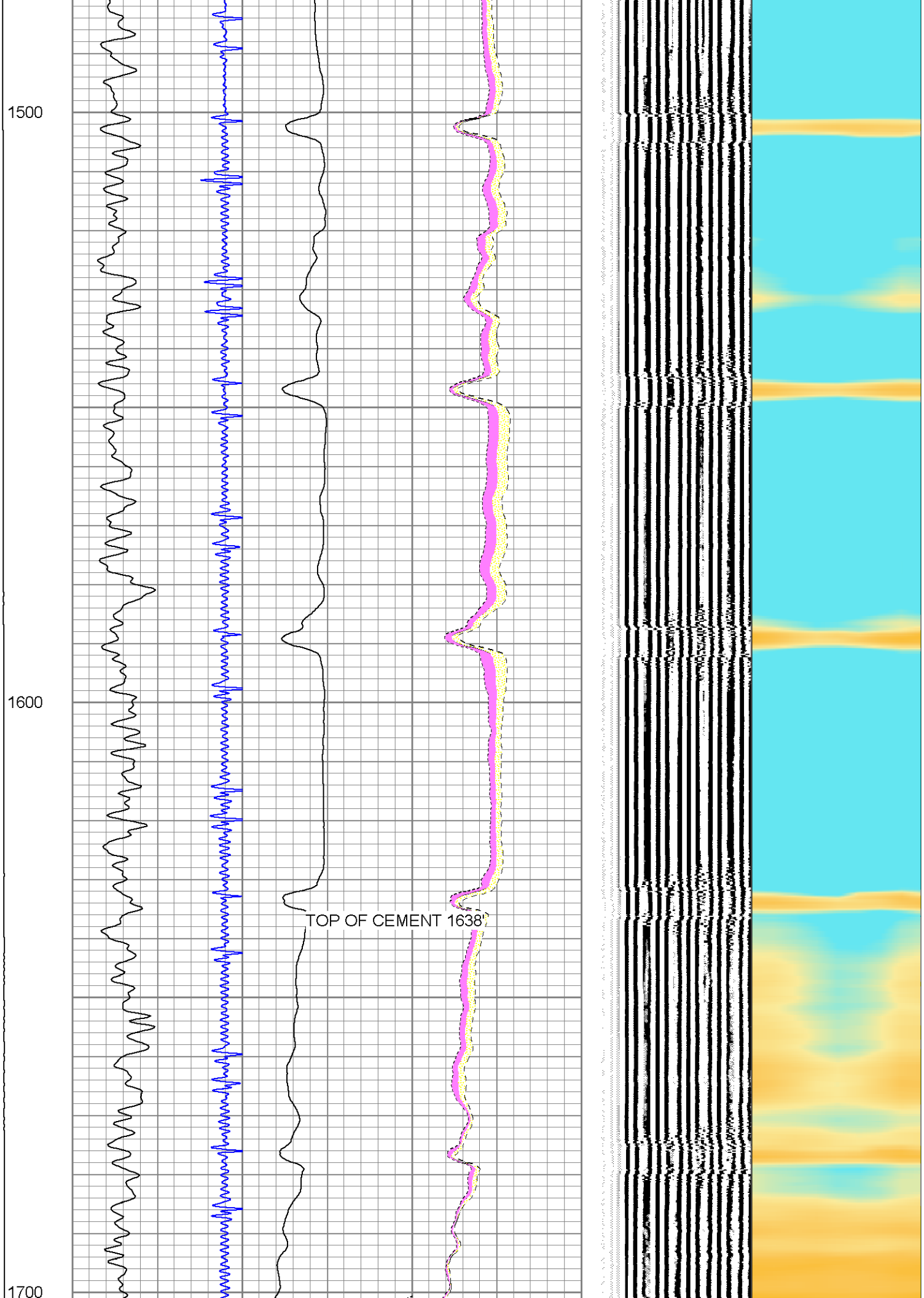
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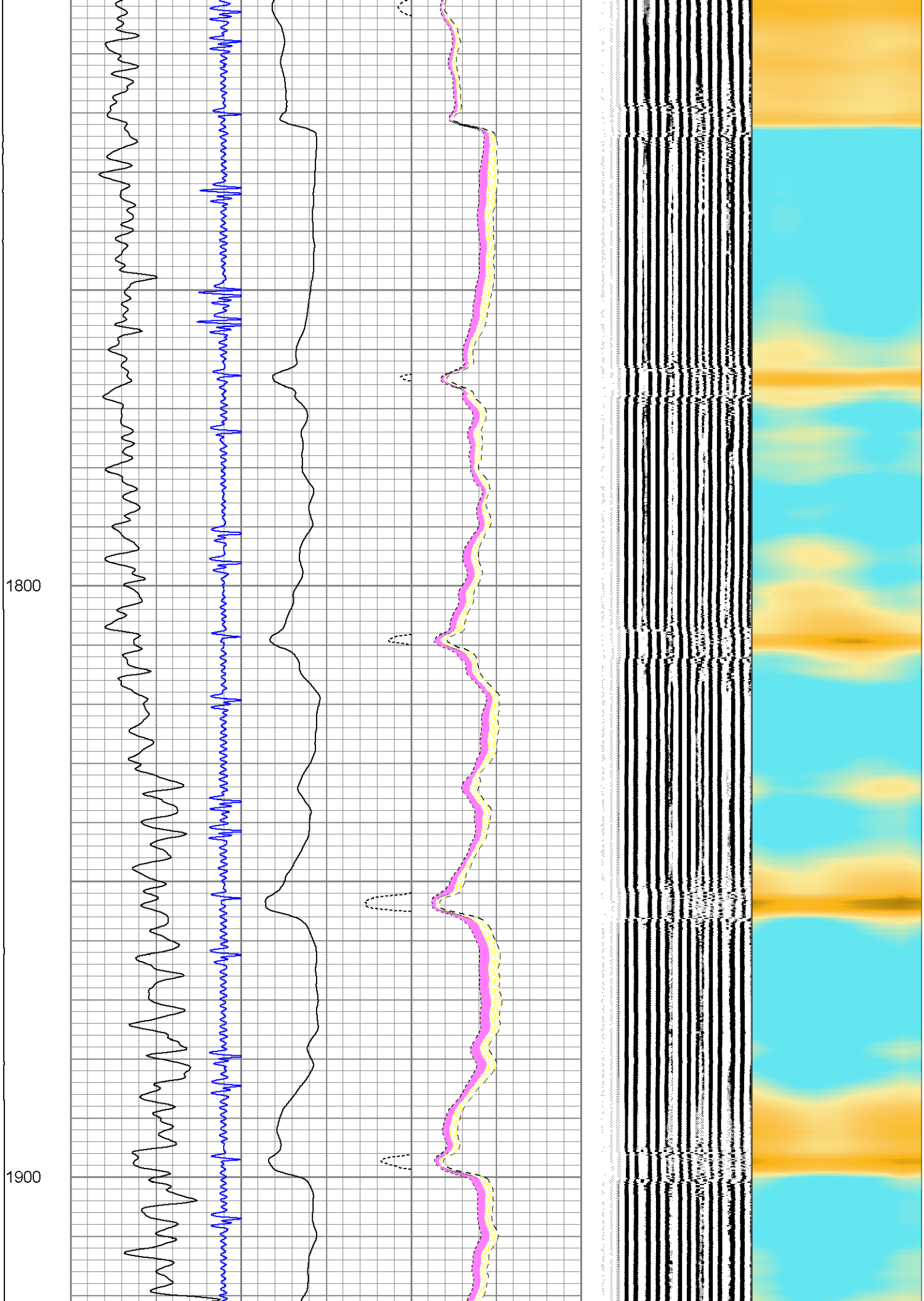
1600
1700
TOP OF CEMENT 1638'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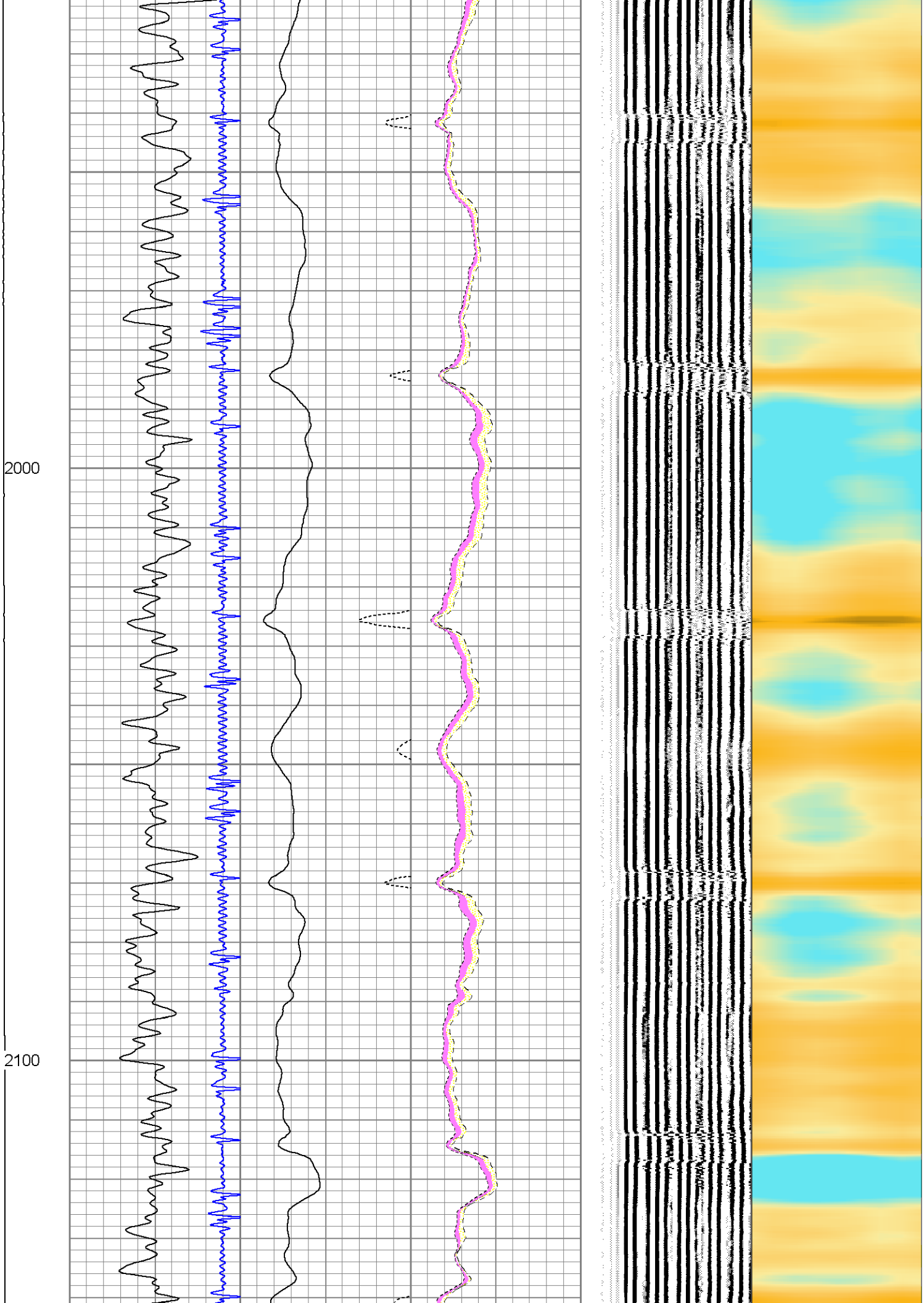
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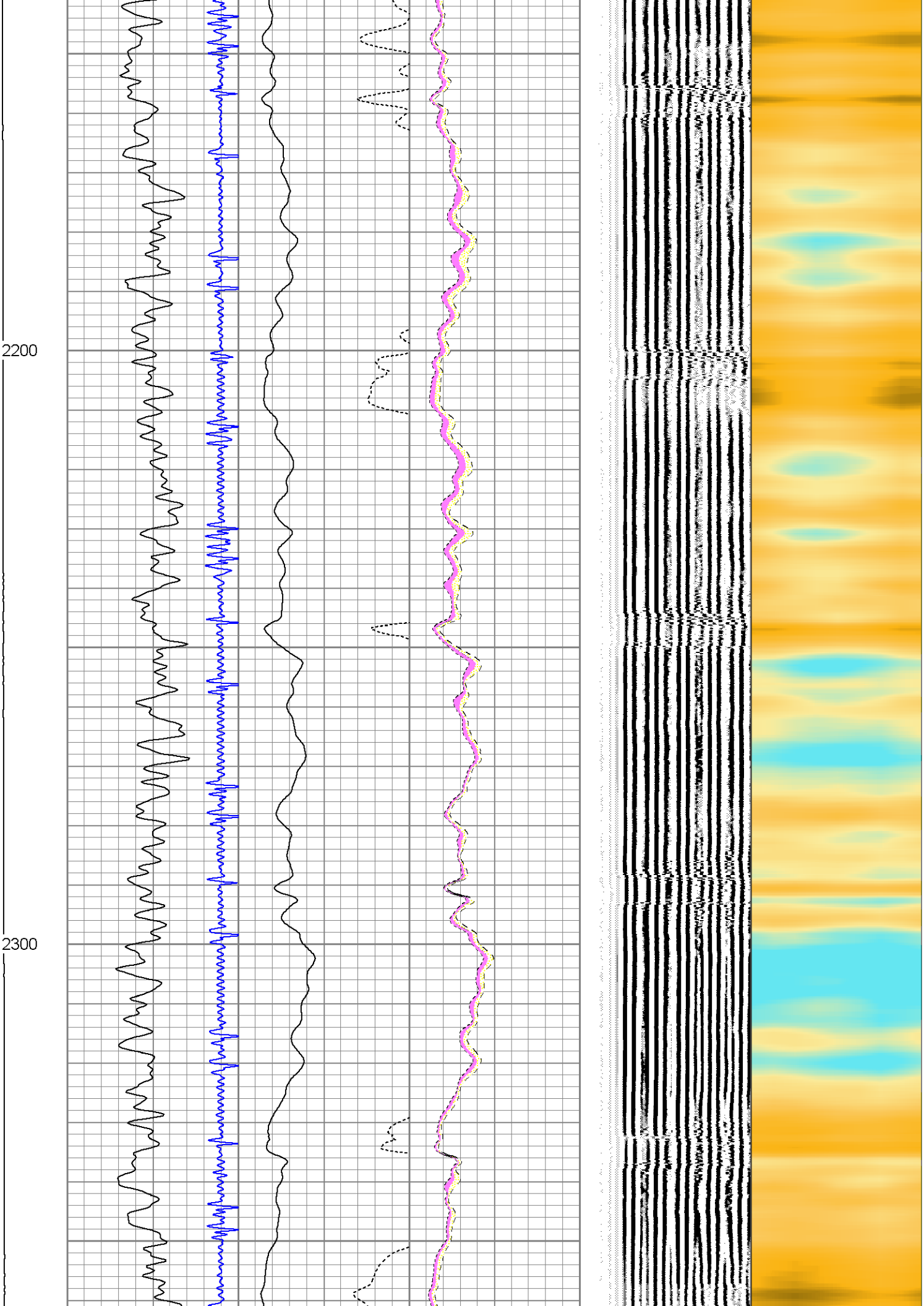
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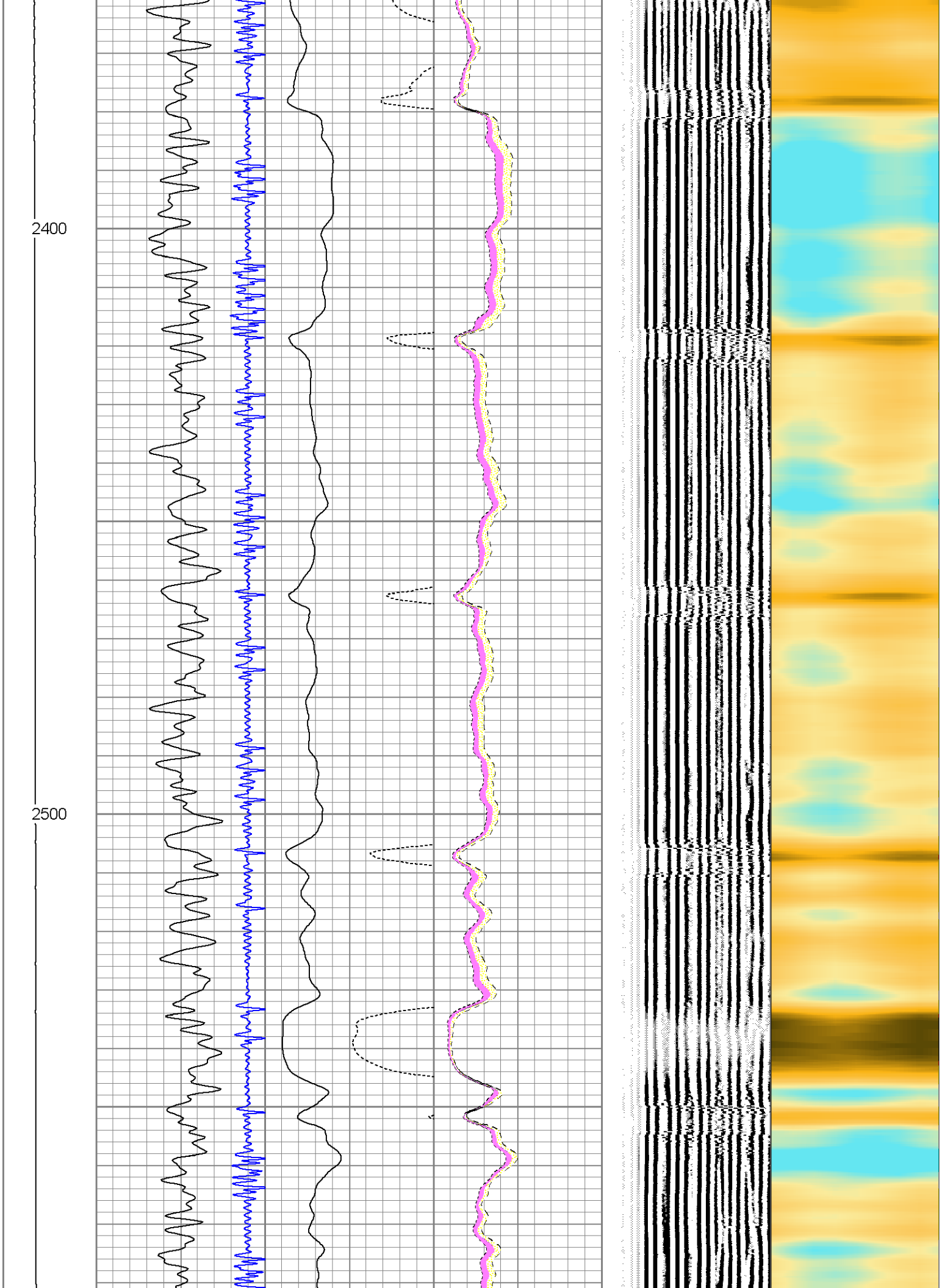
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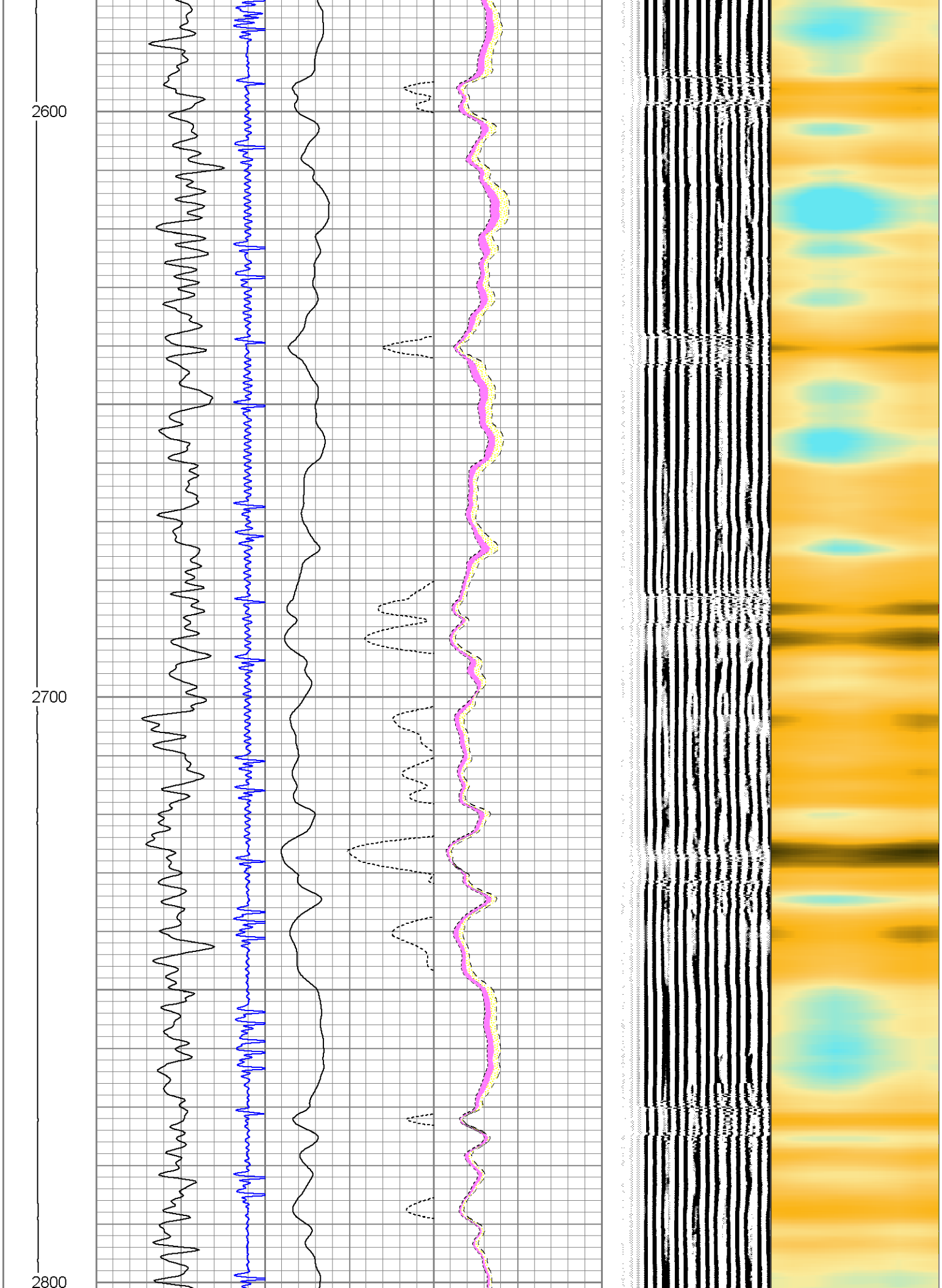
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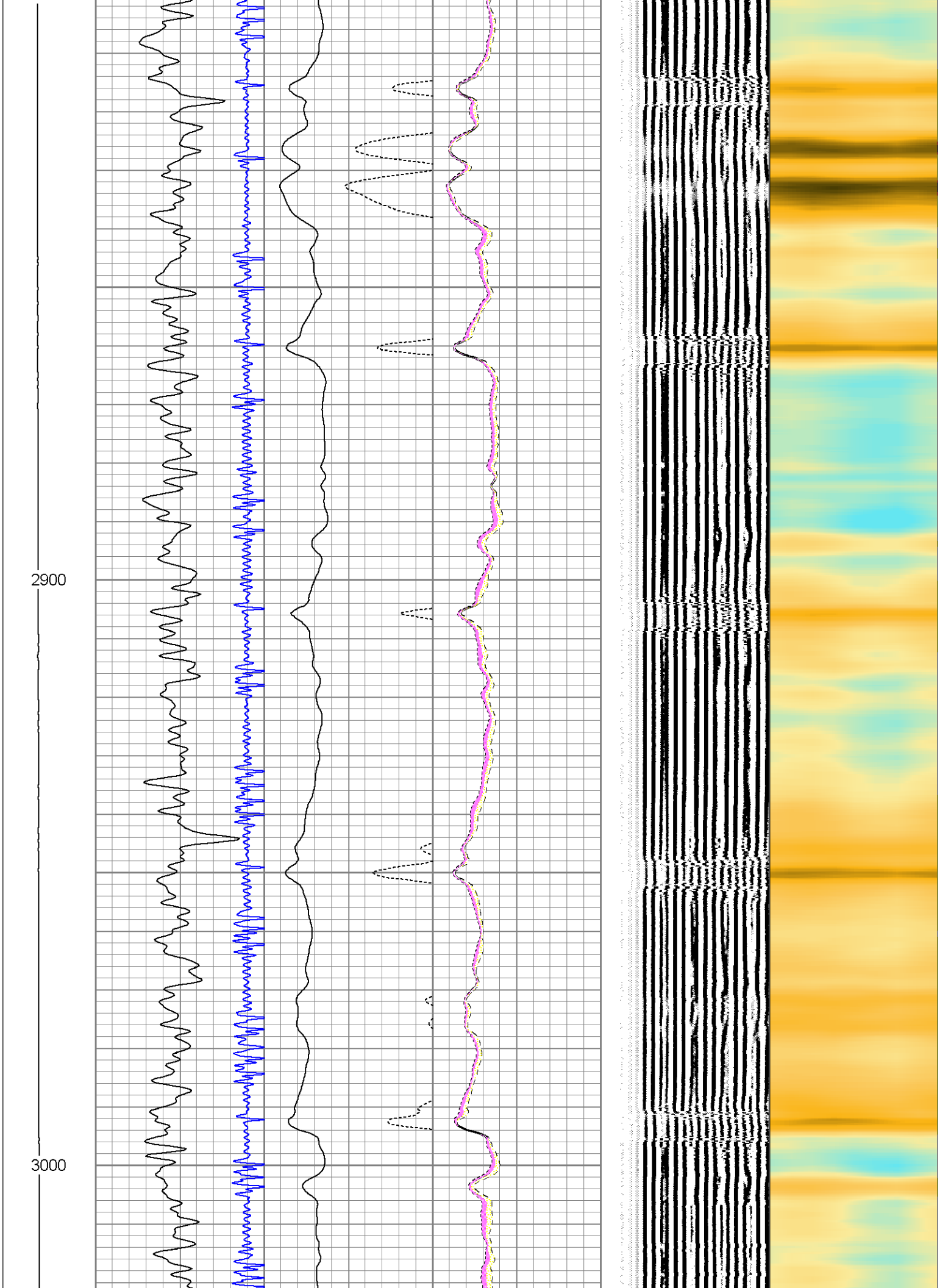
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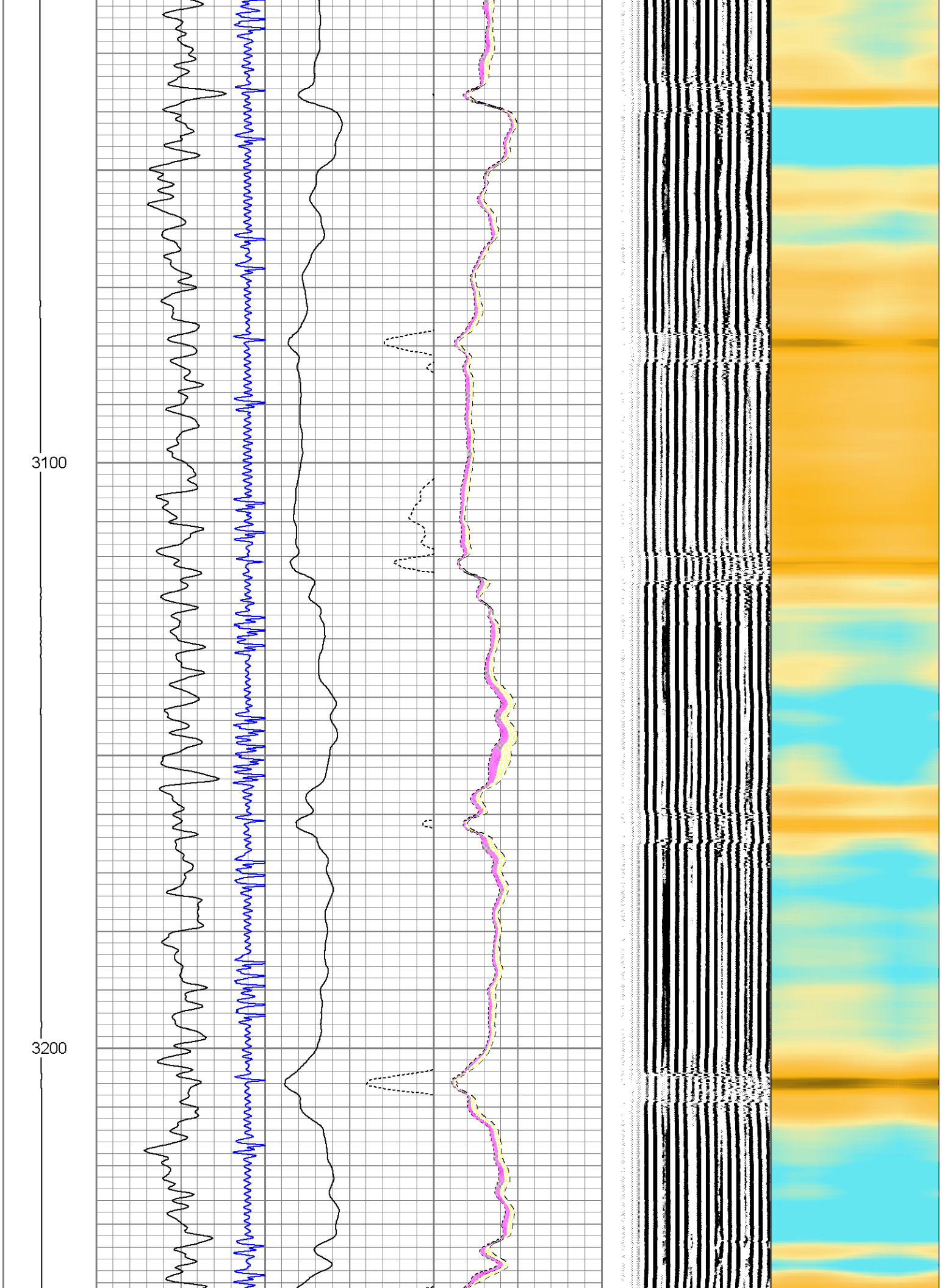
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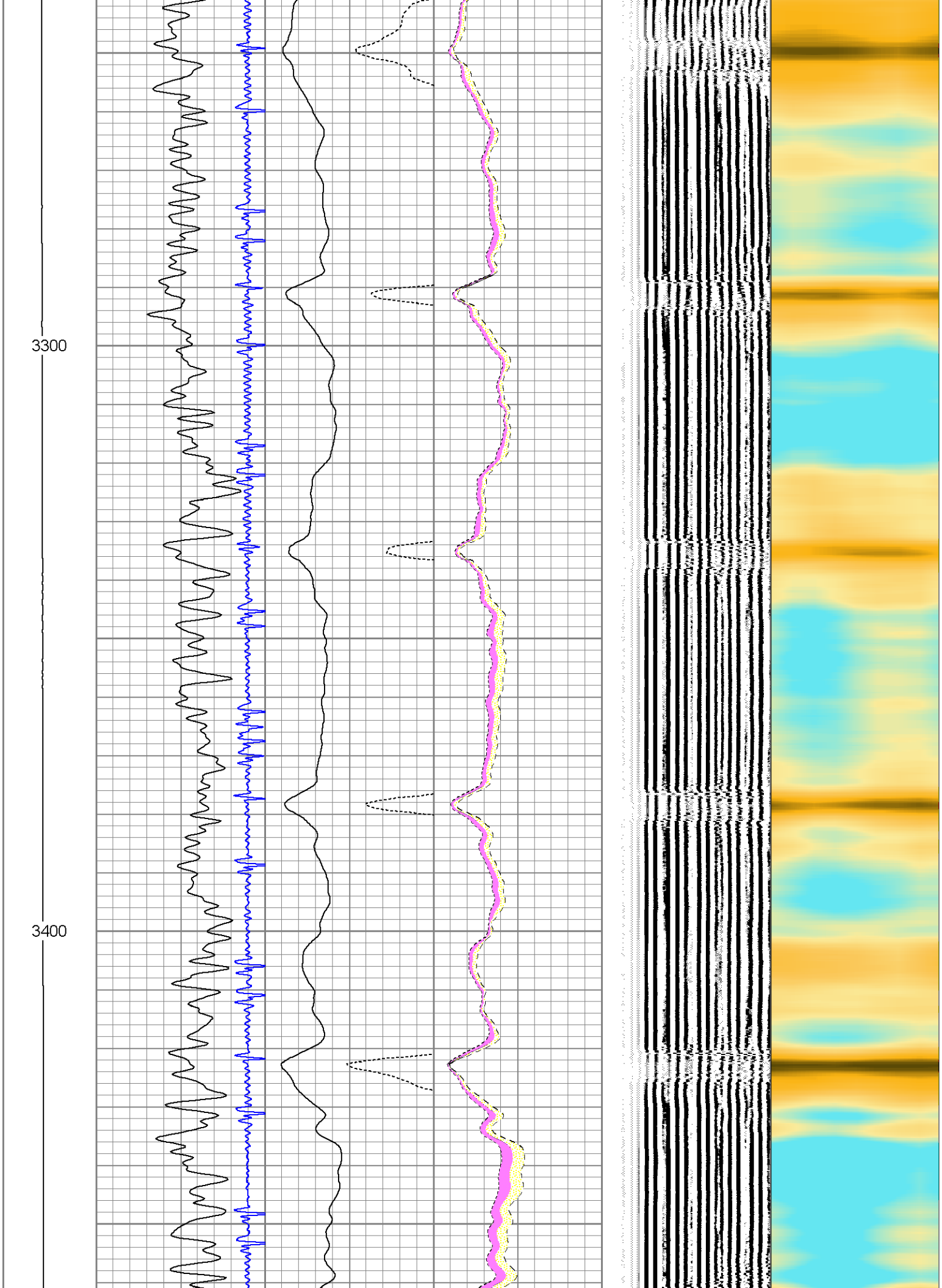
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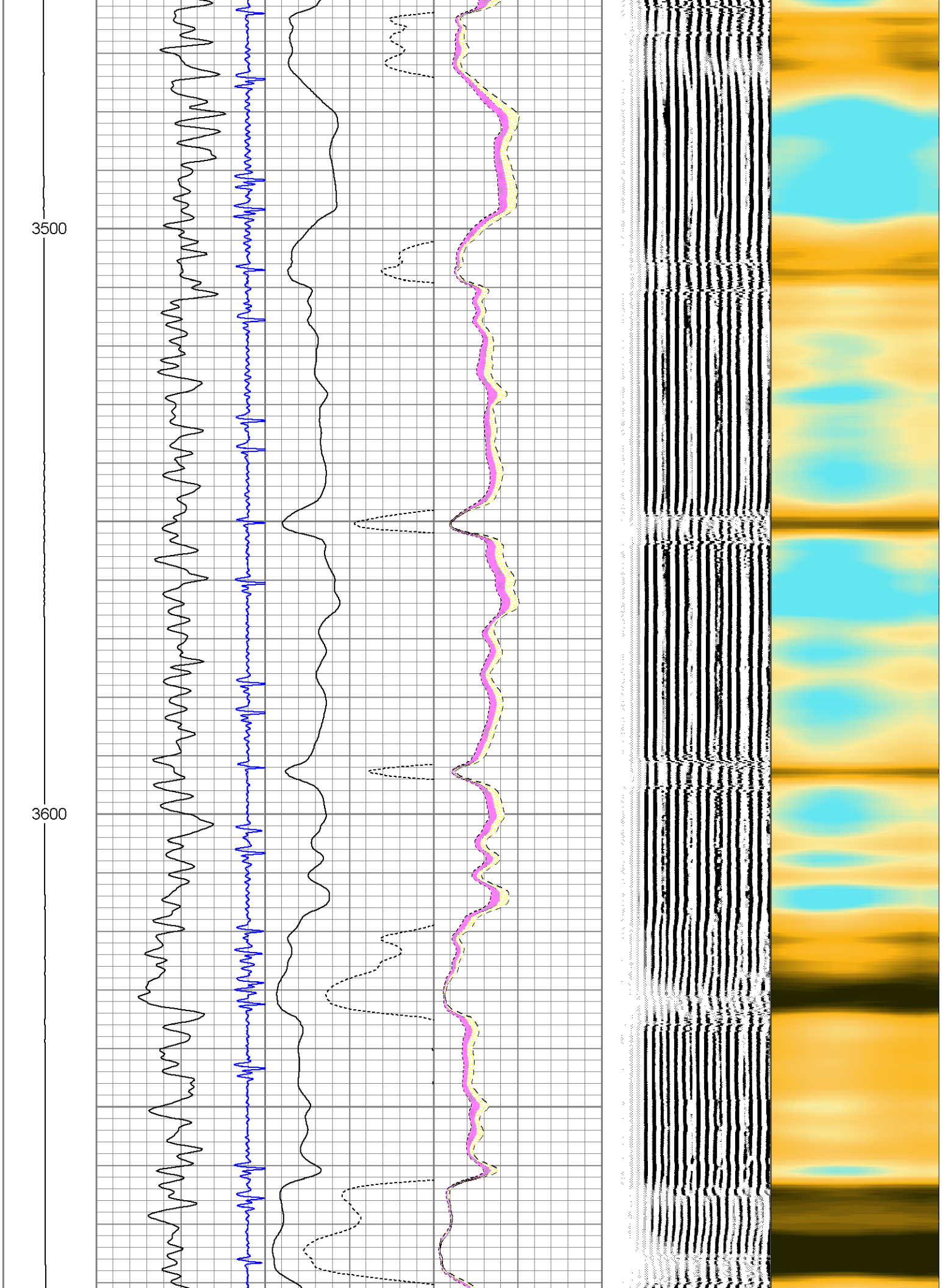
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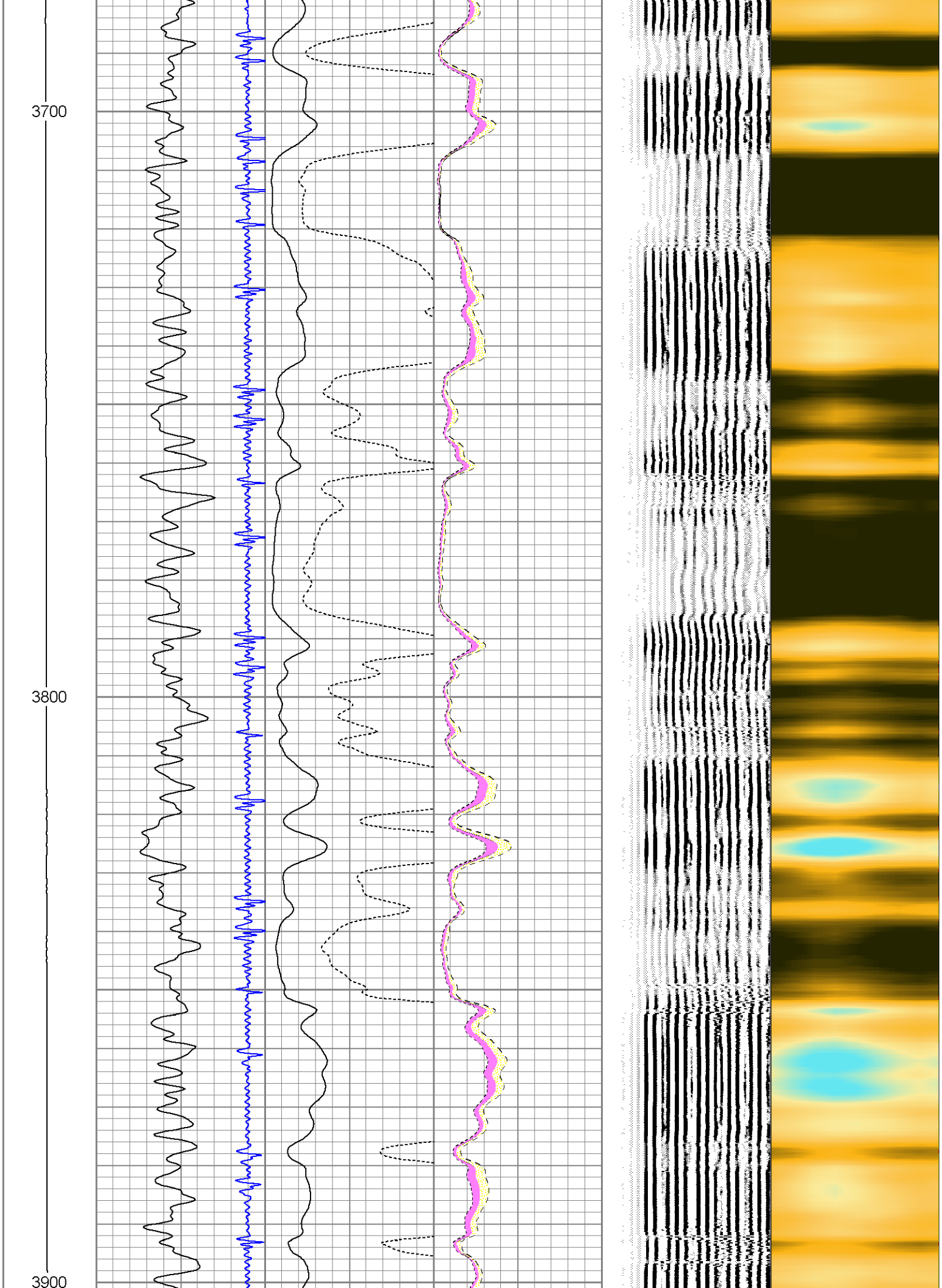
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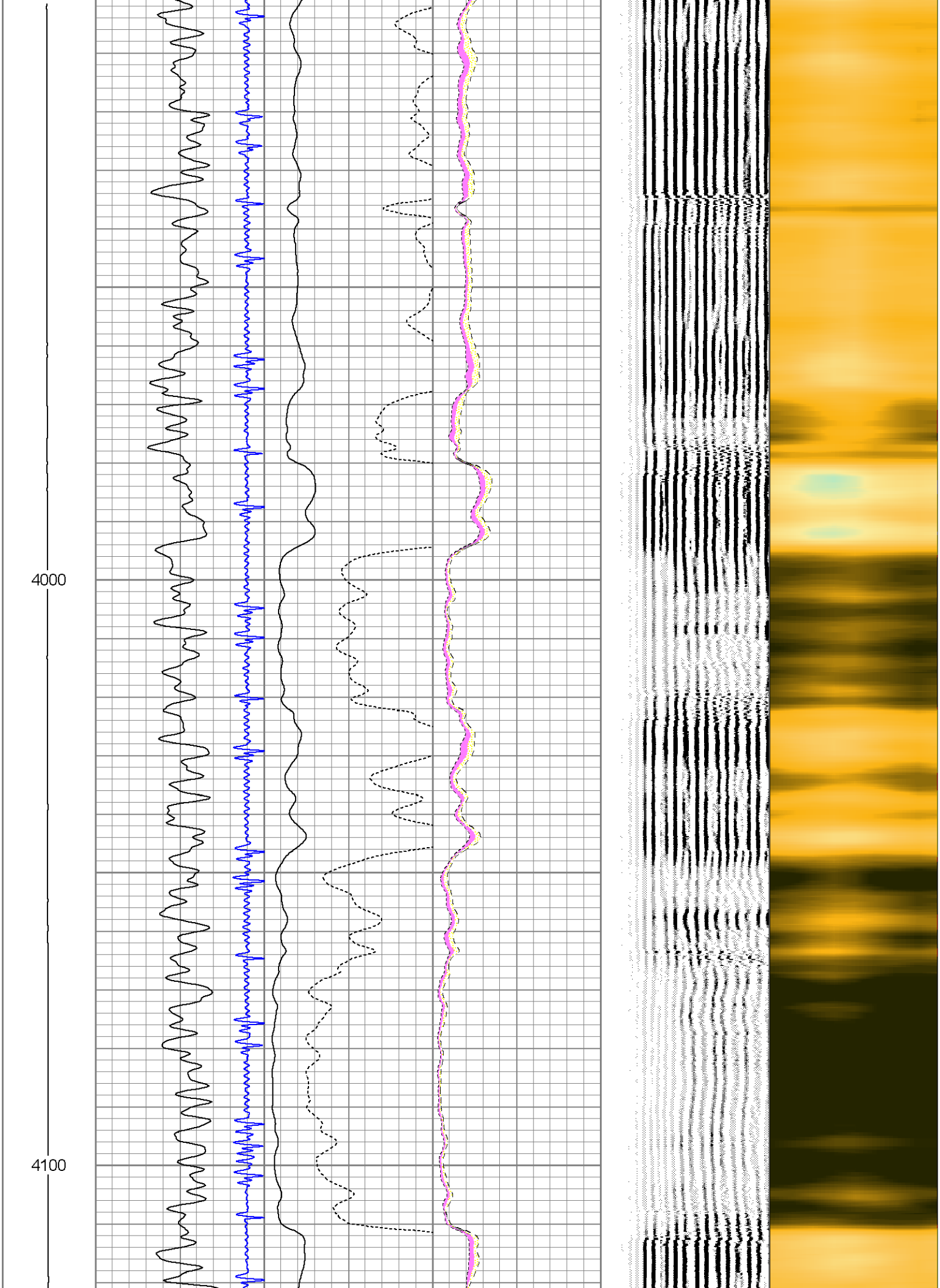
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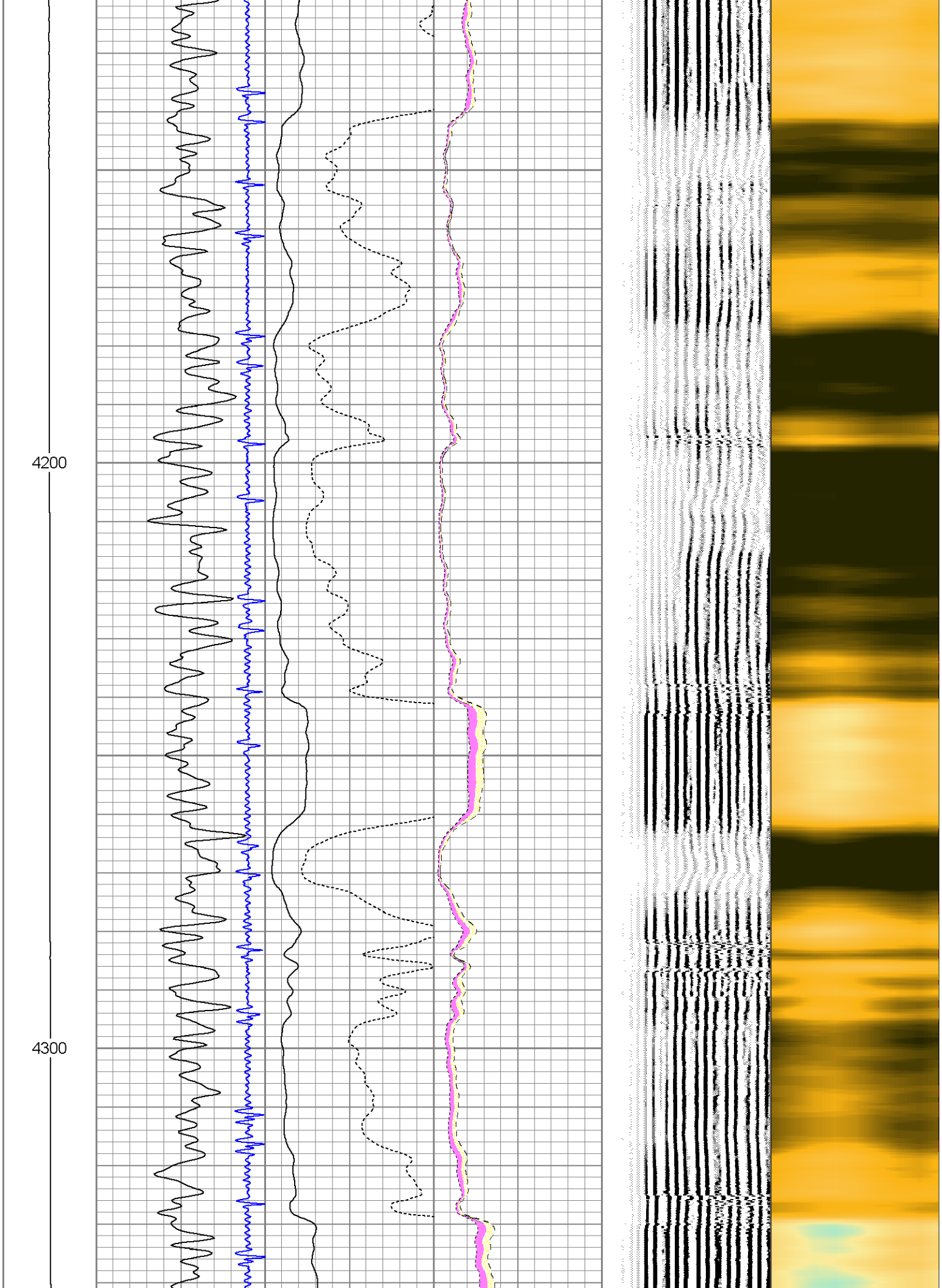
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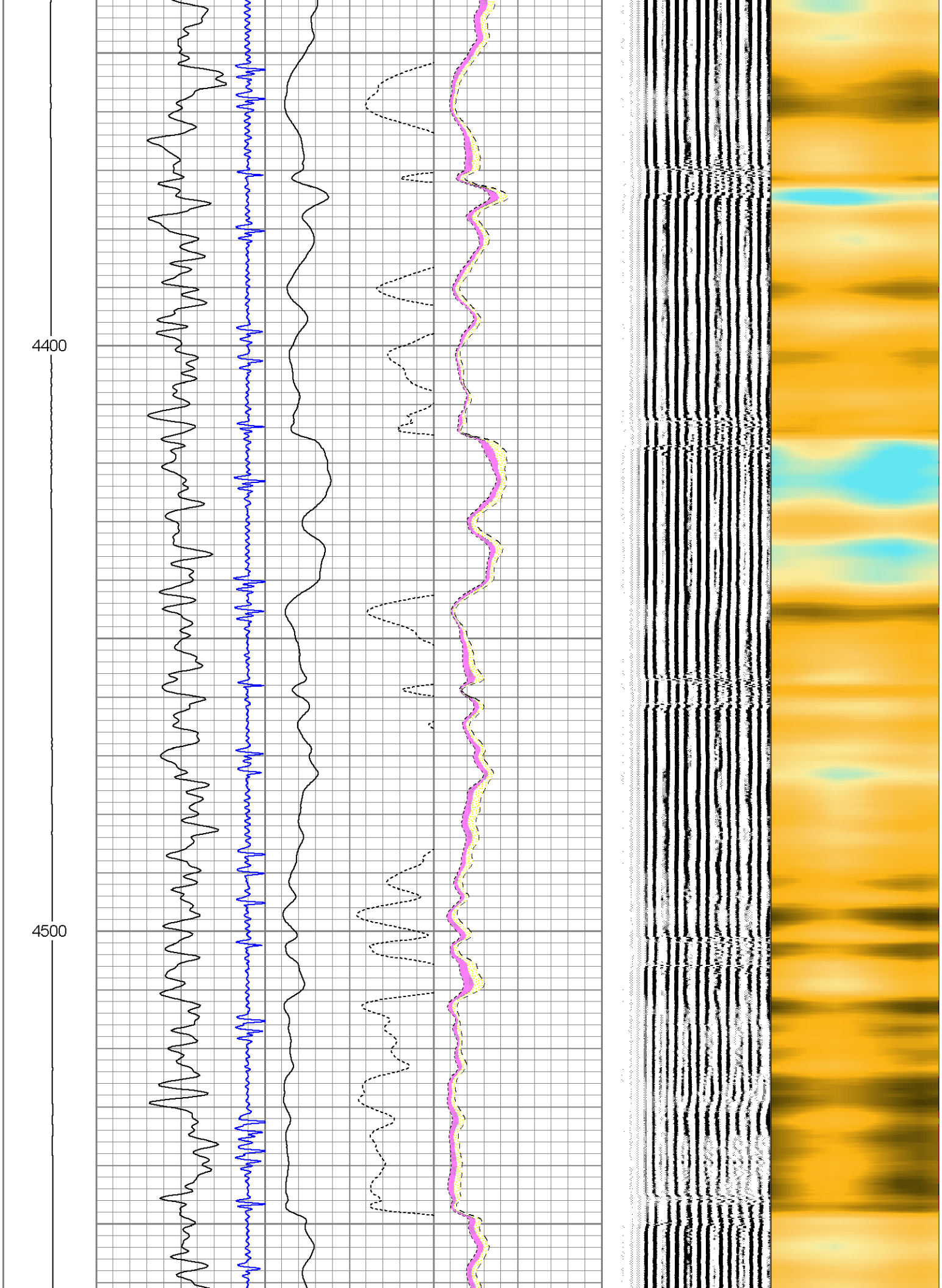
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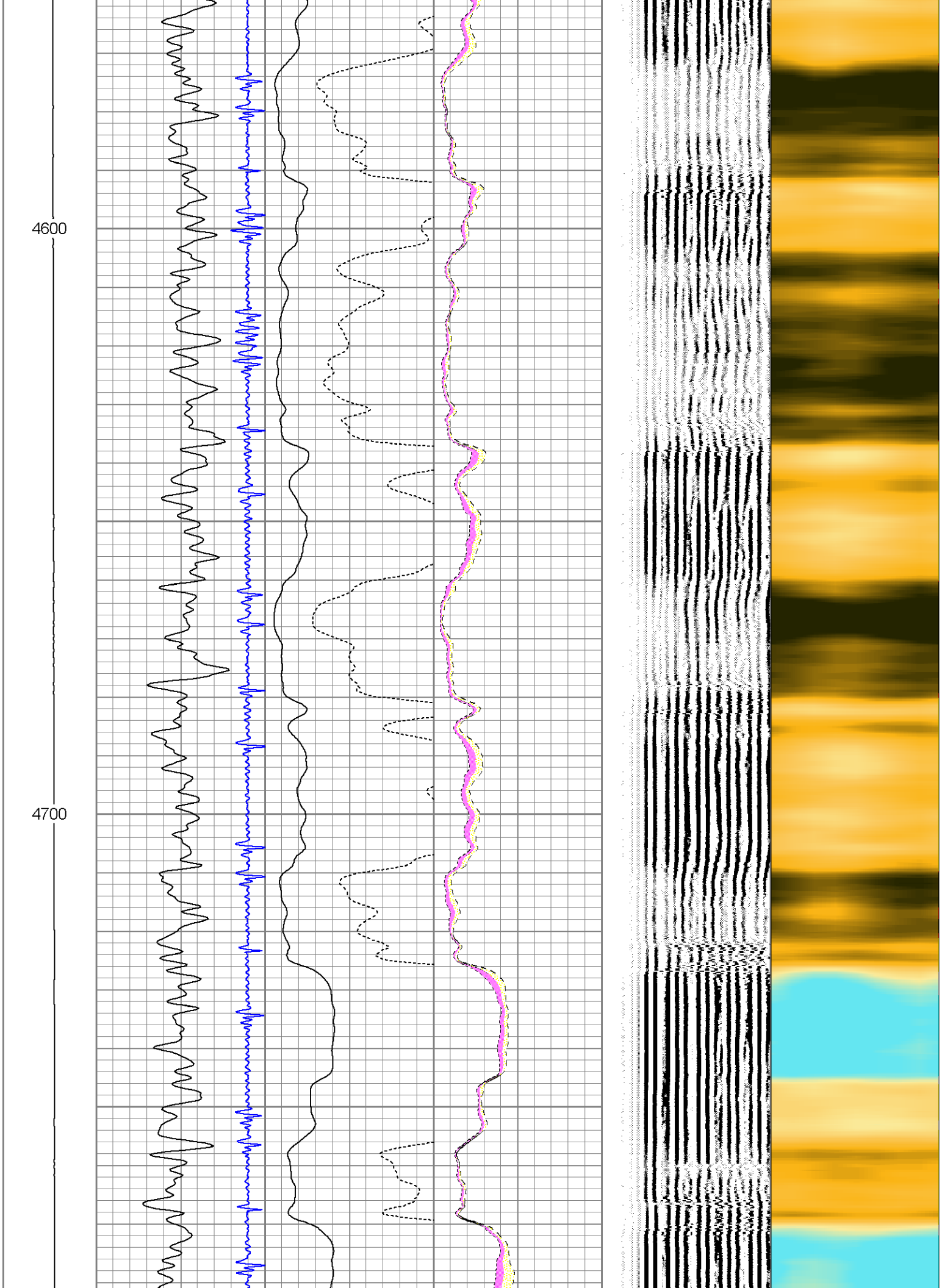
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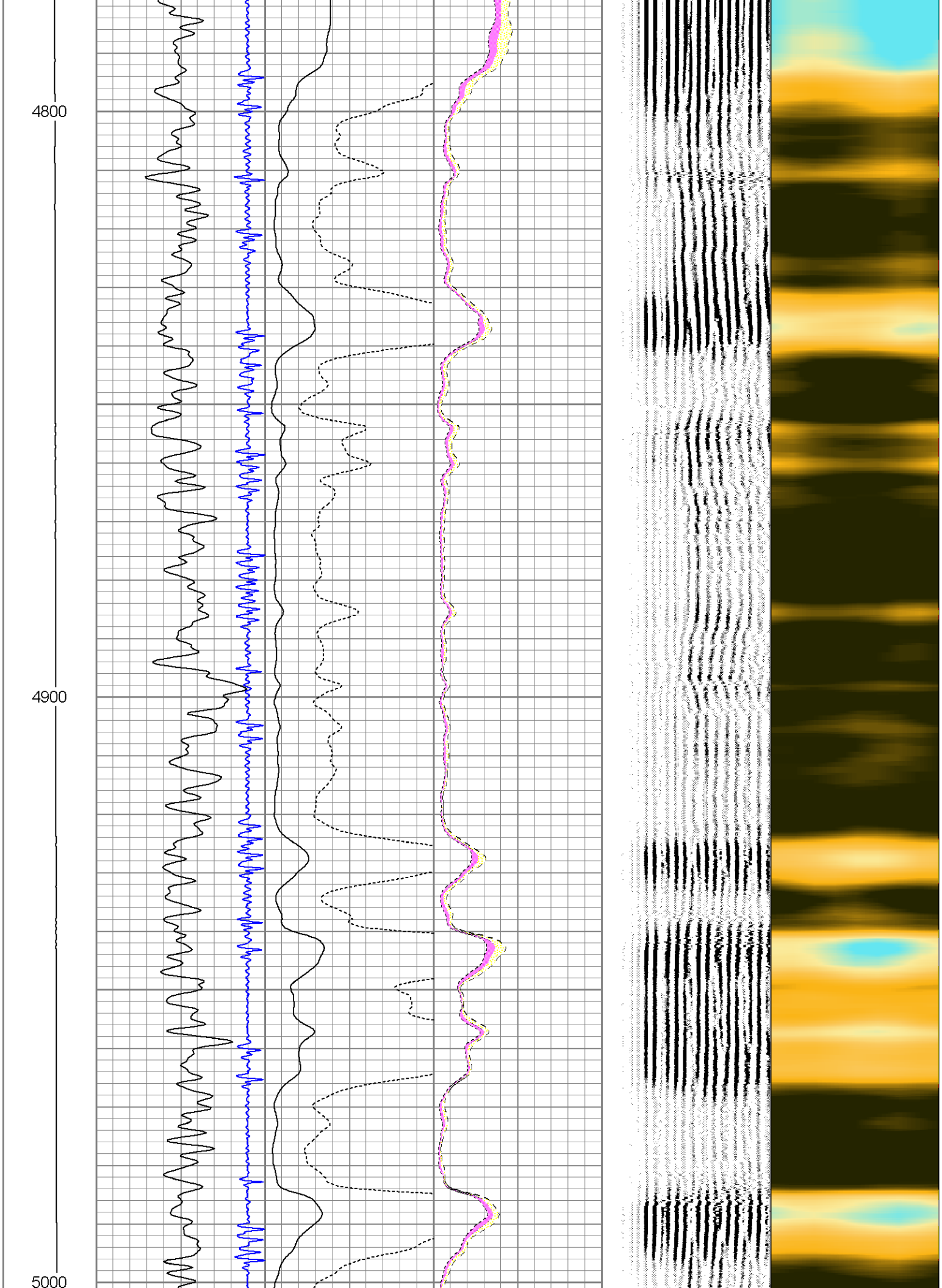
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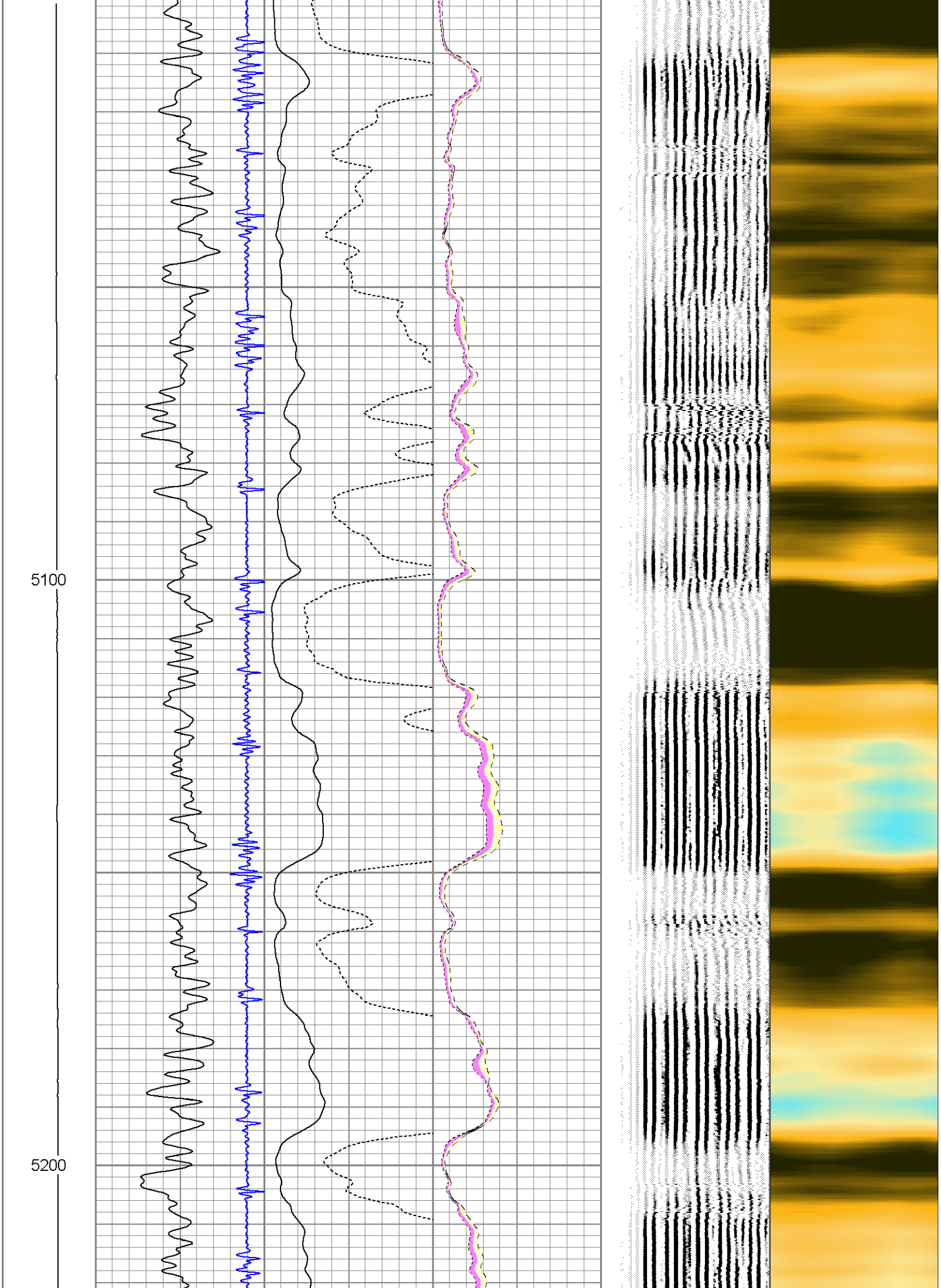
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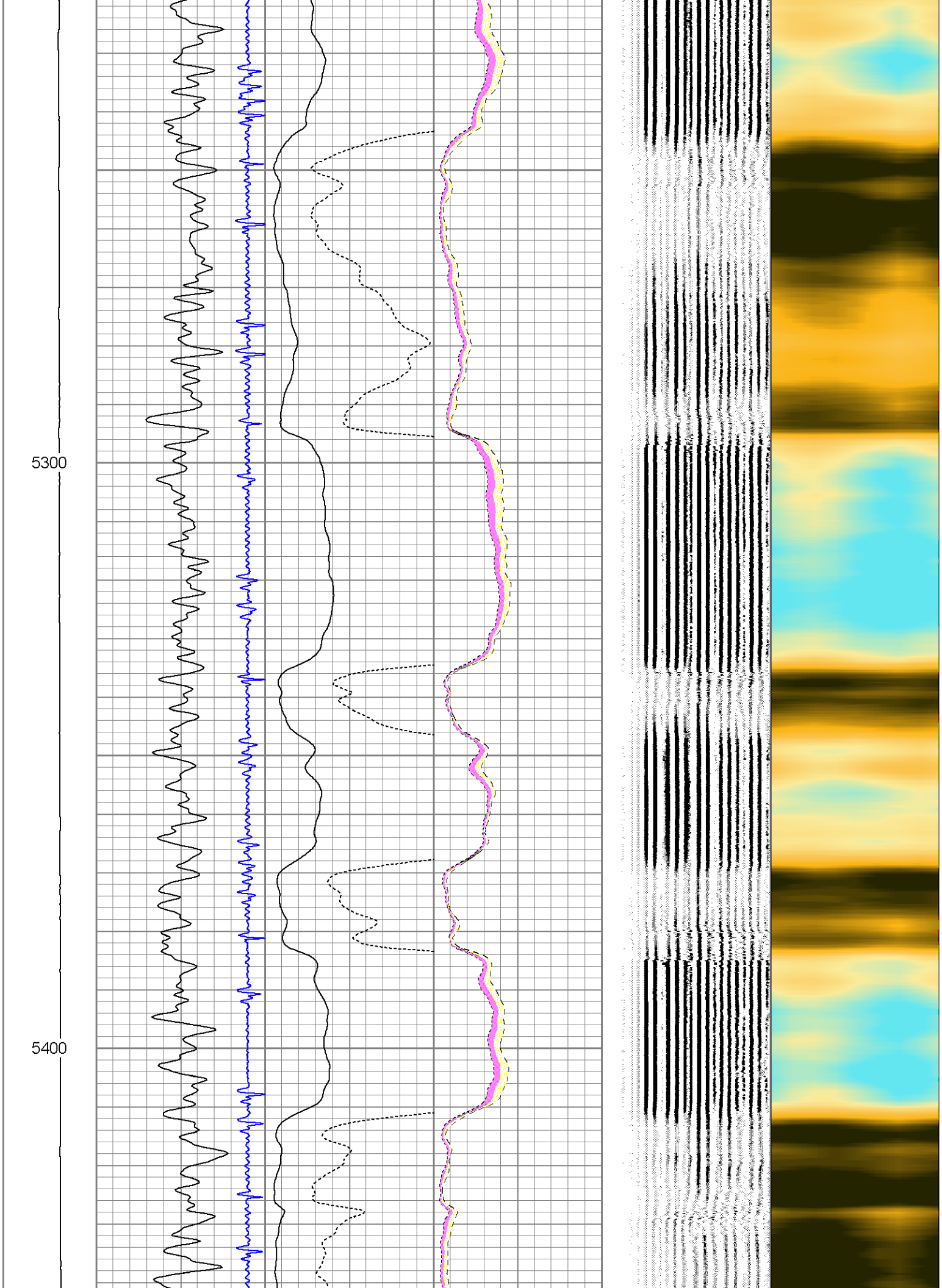
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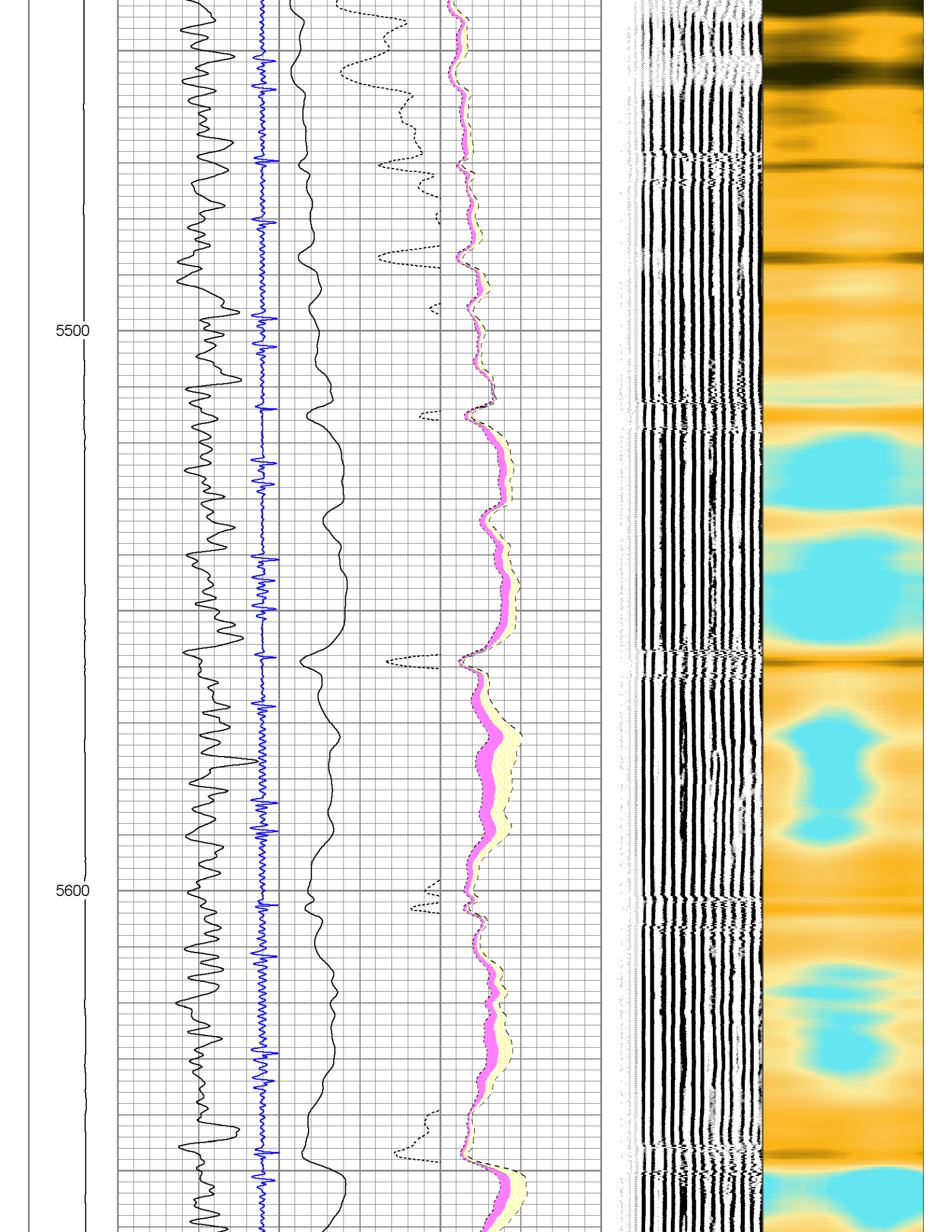
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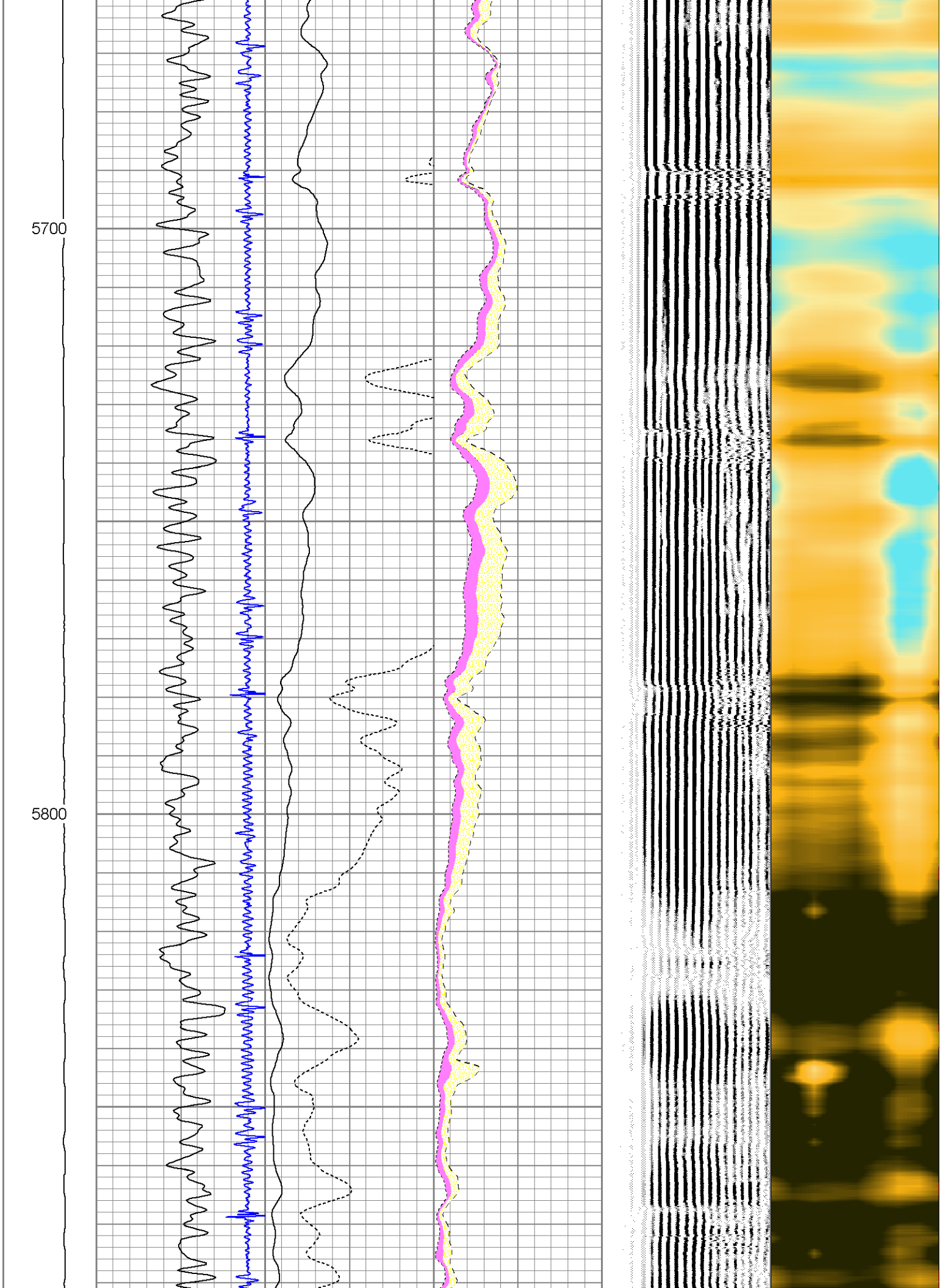
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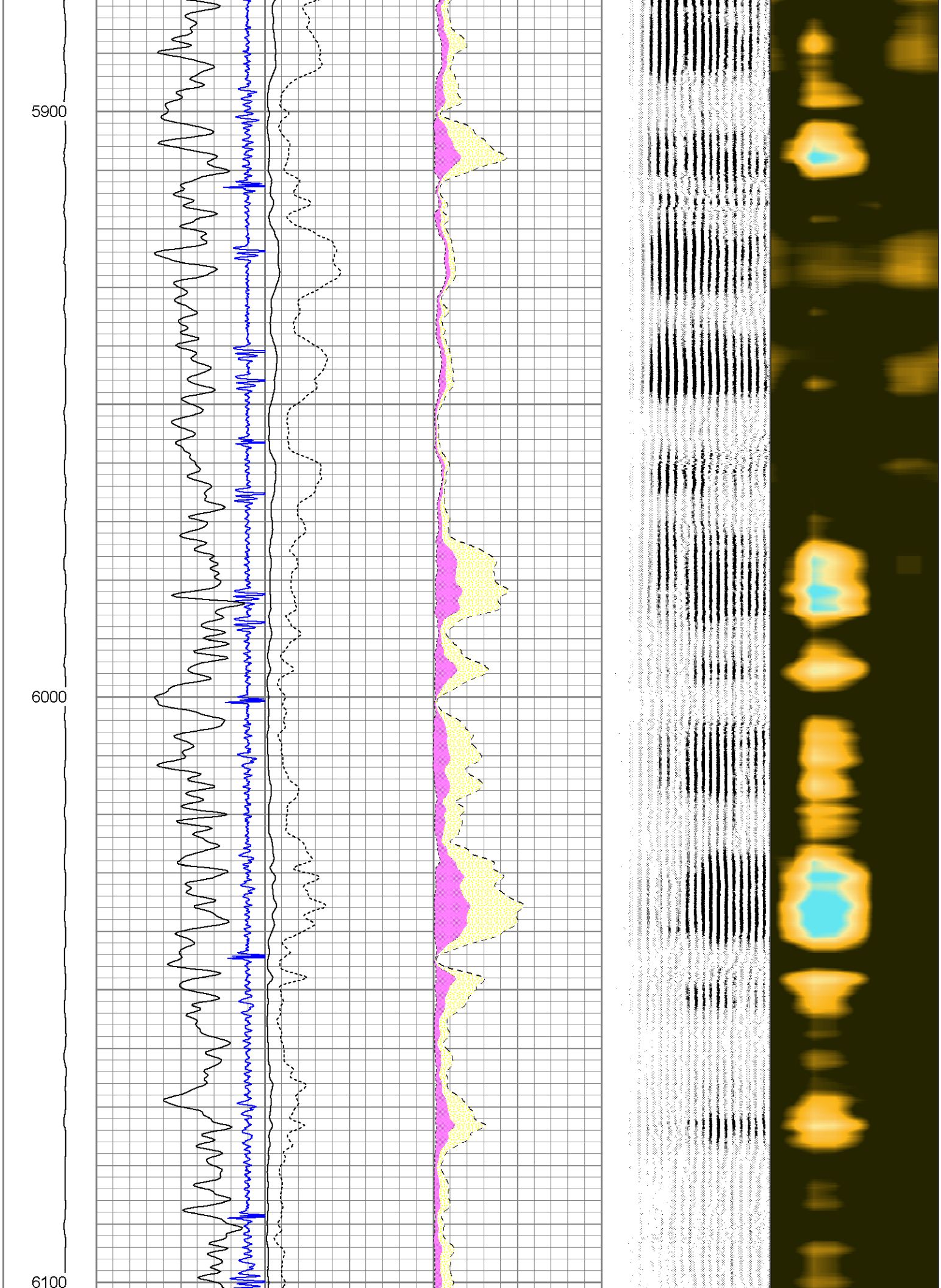
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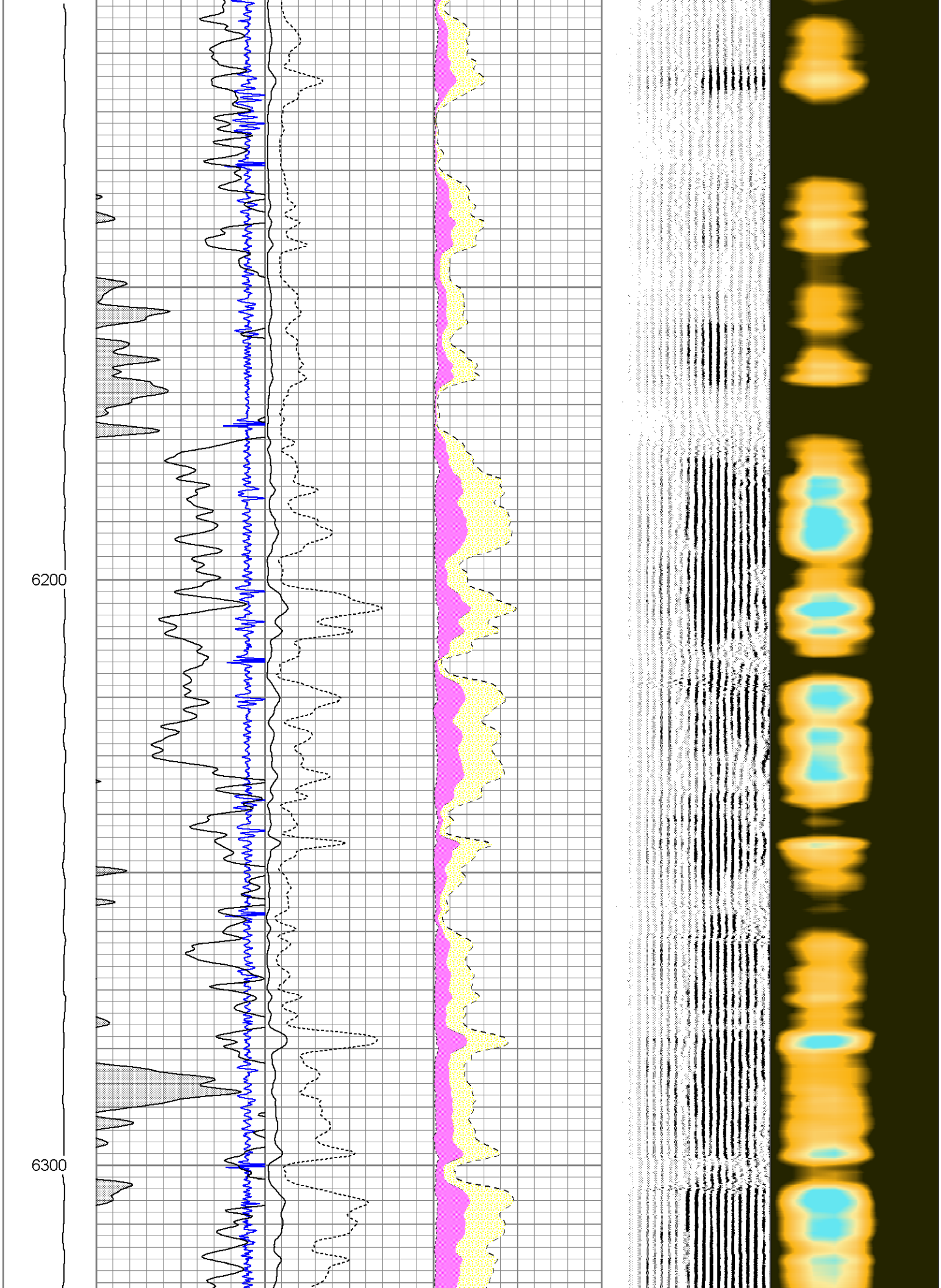
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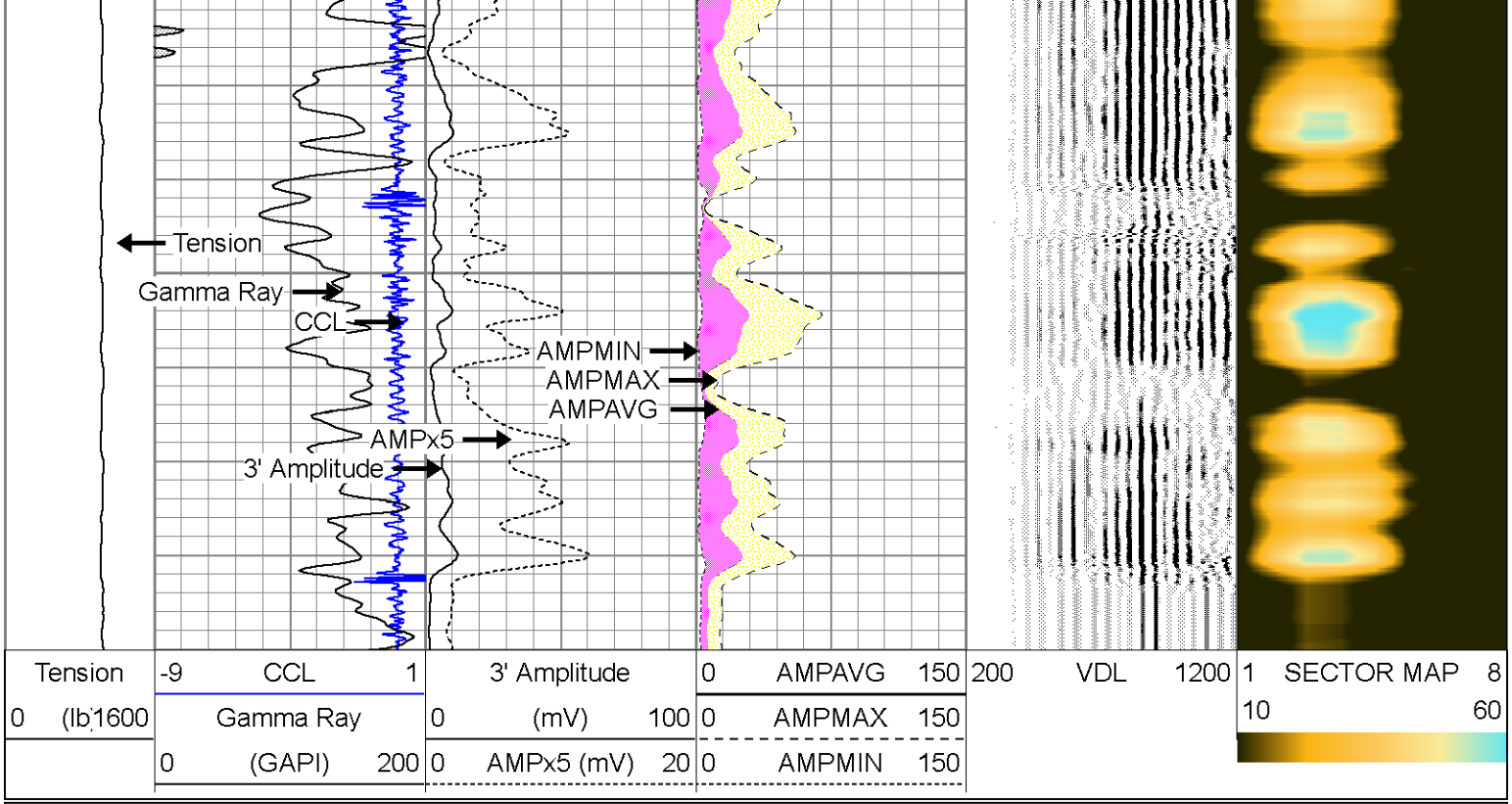

PIONEER

Pioneer Energy Services

MAIN LOG

ZERO PSI APPLIED AT SURFACE

Calibration Report

Database File: carrizo_timbroranch.db
Dataset Pathname: pass10
Dataset Creation: Thu Dec 25 03:46:13 2014 by Log 7.0 B1

Gamma Ray Calibration Report

Serial Number:	275	
Tool Model:	Probe_B	
Performed:	Thu Dec 25 03:46:09 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:	111205	
Tool Model:	Probe275	
Calibration Casing Diameter:	7.000	in
Calibration Depth:	610.077	ft

Master Calibration, performed Thu Dec 25 02:09:05 2014:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.015	0.855	1.000	62.165	72.835	-0.110

CAL	0.013	0.779				
5'	0.013	0.869	1.000	62.165	71.452	0.043
SUM						
S1	0.017	0.788	0.000	100.000	129.696	-2.142
S2	0.016	0.869	0.000	100.000	117.233	-1.893
S3	0.017	0.932	0.000	100.000	109.288	-1.814
S4	0.018	0.943	0.000	100.000	108.158	-1.969
S5	0.018	0.900	0.000	100.000	113.372	-2.065
S6	0.016	0.831	0.000	100.000	122.796	-2.001
S7	0.017	0.774	0.000	100.000	132.144	-2.229
S8	0.017	0.754	0.000	100.000	135.613	-2.301

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	0.779	1.000	0.000

Air Zero Calibration, performed Thu Dec 25 01:45:30 2014:

	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

Company	CARRIZO NIOBRARA LLC		
Well	TIMBRO RANCH 2-3-9-59		
Field	WILDCAT		
County	WELD	State	CO