PIONEER

Pioneer Energy Services

RADIAL SECTOR BOND LOG WITH GAMMA RAY

Company EnCana Oil & Gas (USA) Inc.
Well Boyd 3B-19H-M368
Field Wattenberg
County Weld
State Colorado

Company **EnCana Oil & Gas (USA) Inc.**
Well **Boyd 3B-19H-M368**
Field **Wattenberg**
County **Weld** State **Colorado**

Location: API # : 05123377920000
SHL: 1059 FSL & 612 FWL
SWSW
SEC 19 TWP 3N RGE 68W

Other Services
None

Permanent Datum GL Elevation 5005
Log Measured From KB
Drilling Measured From KB

Elevation
K.B. 5018
D.F. 5018
G.L. 5005

Date of Service	August 11, 2014		
Run Number	1		
Depth Driller or PBTD	11588		
Depth Logger	7355		
Bottom Log Interval	7351		
Top Log Interval	Surface		
Open Hole Size	8-3/4		
Type Fluid	WBM		
Fluid Level	65		
Fluid Density	11.4 / 38		
Max. Recorded Temperature	NA		
Max. Wellhead Pressure	NA		
Wellhead Connection	NA		
Estimated Cement Top	875		
Unit Number	49		
Wireline Size	7/16		
Location	Fort Morgan, CO		
Recorded By	Shaun Schuman		
Witnessed By	Mr. Bill LaForce		

	Size	Wt/Ft	Top	Bottom
Tubing Record				
Surface Casing	9 5/8	40 lbs	0	860
Production Casing	7	26 lbs	0	7076
Liner Record	4 1/2	13.5 lbs	NA	NA

<< Fold Here >>

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

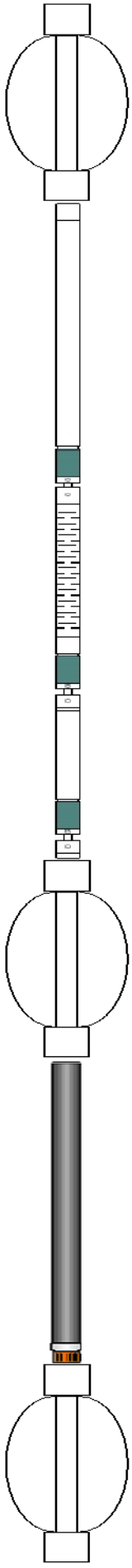
N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.
Thank You for using Pioneer Energy Services
Ensign Rig 135

THANK YOU FOR USING PIONEER Energy SERVICES

Tool Data - Services	Serial Number
Sector CBL -	130584
Gamma ray / CCL	121002

Your Pioneer Energy Services Crew
Engineer: Shaun Schuman / Stump
Operator: Geno Vellejos
Operator:
Operator:

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			CENT #2 -A (1)	2.83	2.75	20.00
IntTemp	17.49					
TEMP	16.47					
			RBT-RBT-C3 (130584) Probe Radii Bond Tool with Digital Telemetry	9.33	2.75	90.00
WVF3FT	14.24					
WVFCAL	14.24					
WVFS1	14.24					
WVFS2	14.24					
WVFS3	14.24					
WVFS4	14.24					
WVFS5	14.24					
WVFS6	14.24					
WVFS7	14.24					
WVFS8	14.24					
WVF5FT	13.24					
			CENT-A (1)	2.83	2.75	20.00
CCL	6.75					
			GR-probe 2.75 (111205) proble Digital CCL Gamma	4.33	2.75	100.00
GR	3.96					
			CENT-A (1)	2.83	2.75	20.00



Dataset:	13624.db: field/well/run1/pass2
Total Length:	22.15 ft
Total Weight:	250.00 lb
O.D.	2.75 in

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Main Pass

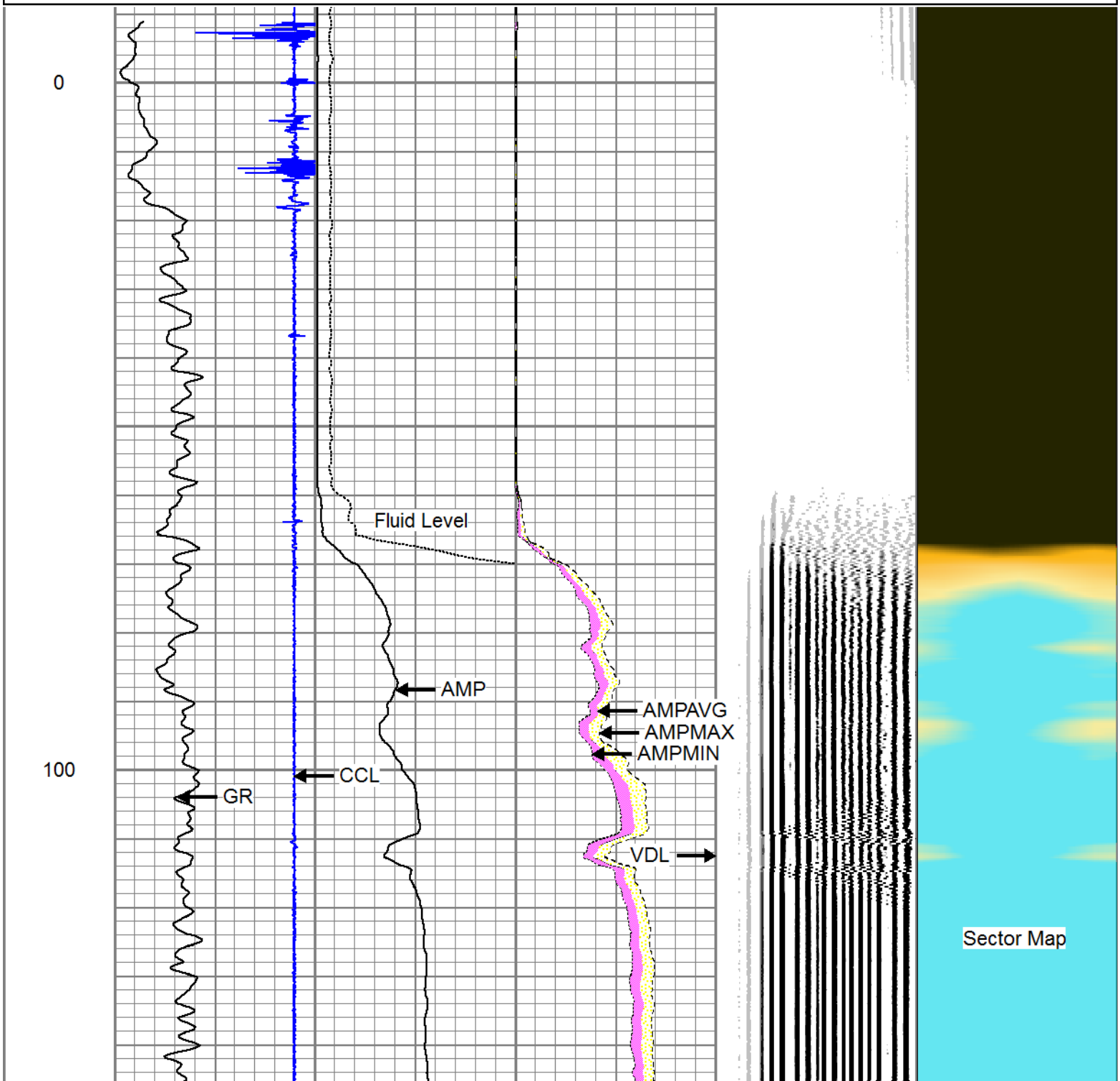
Logged with 0 PSI applied at surface

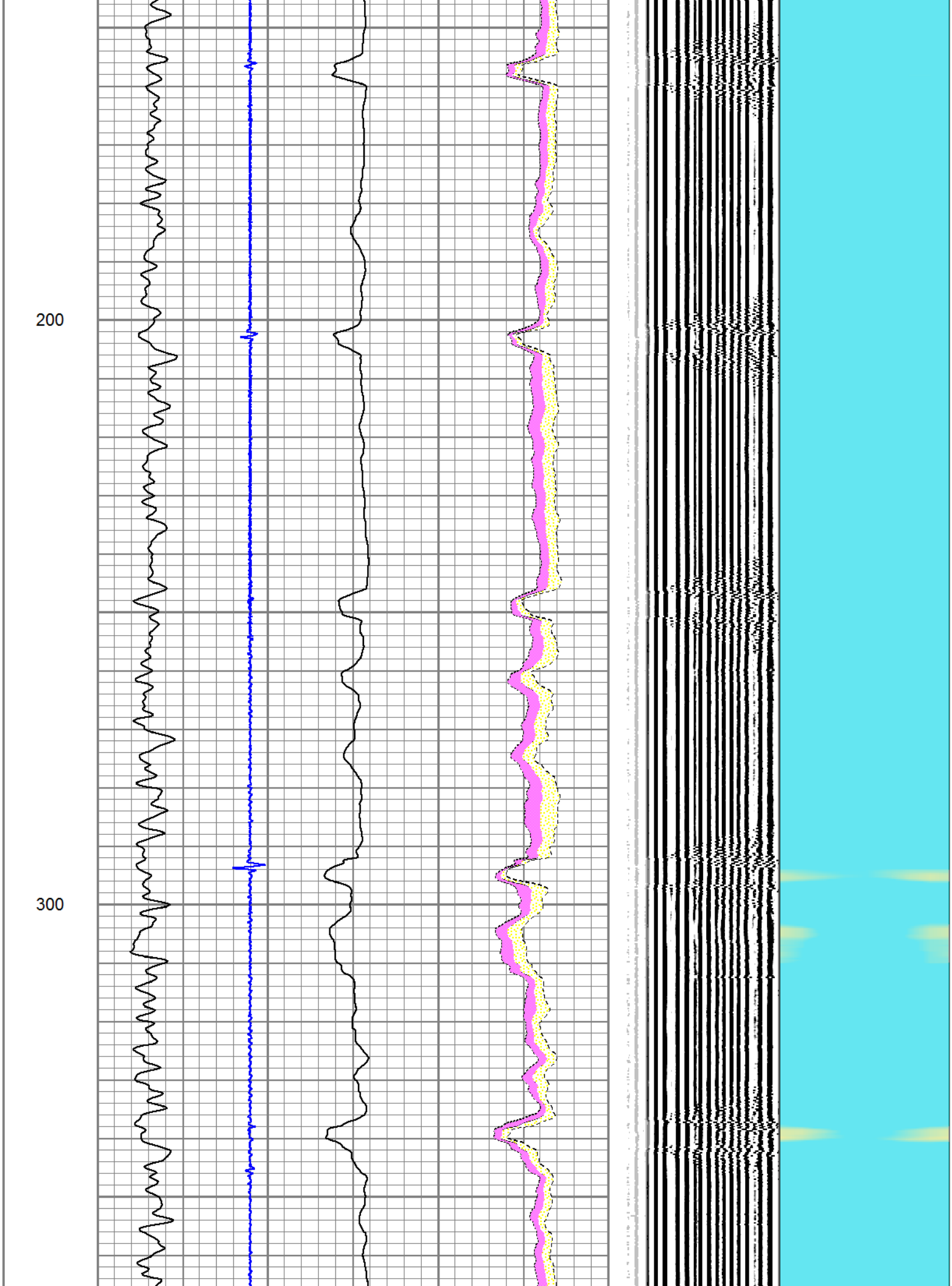
Database File:	13624.db
Dataset Pathname:	main
Presentation Format:	scbl02
Dataset Creation:	Mon Aug 11 15:55:04 2014
Charted by:	Depth in Feet scaled 1:240

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

1 SECTOR MAP 8

10 60




200
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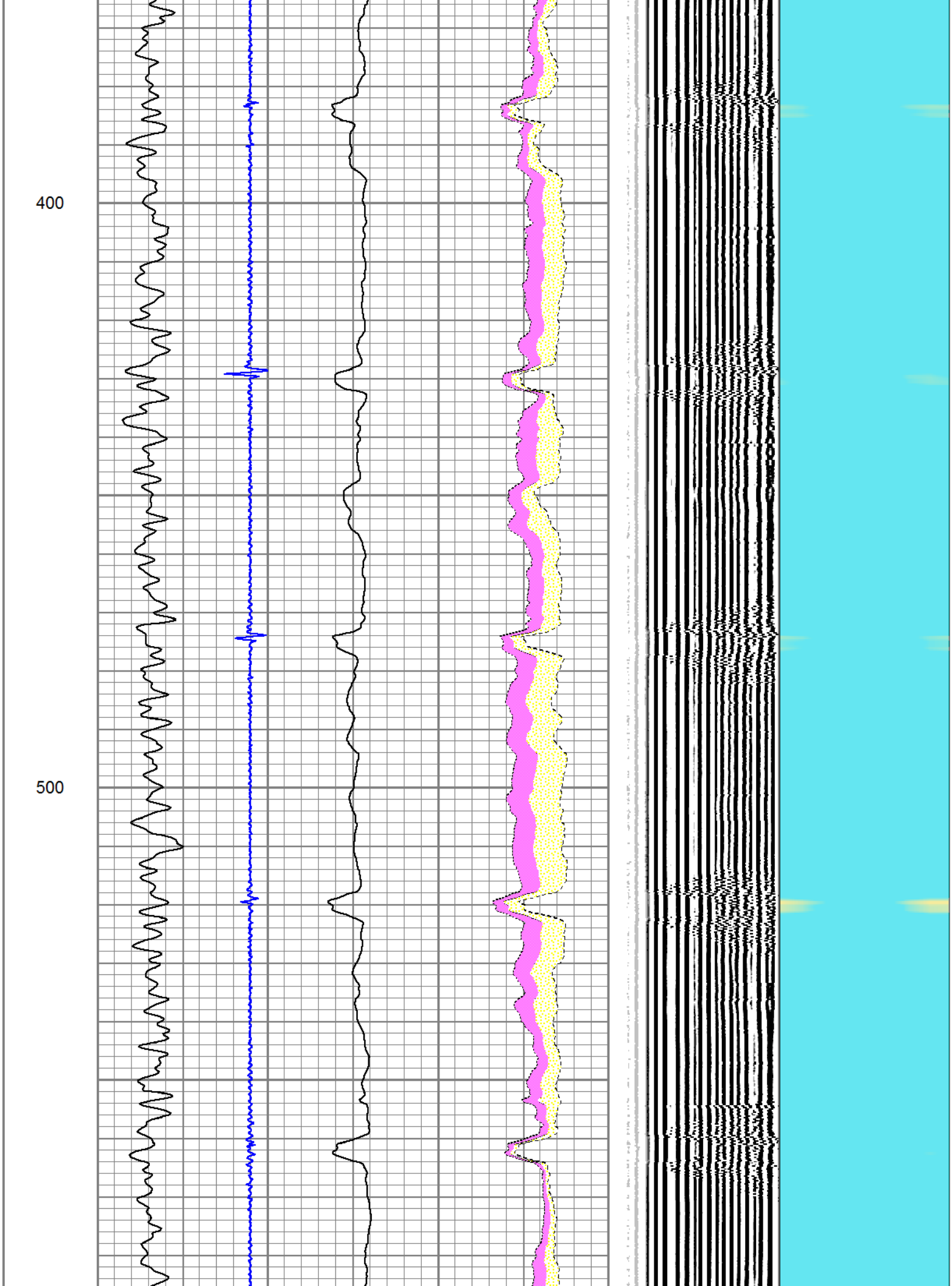
400
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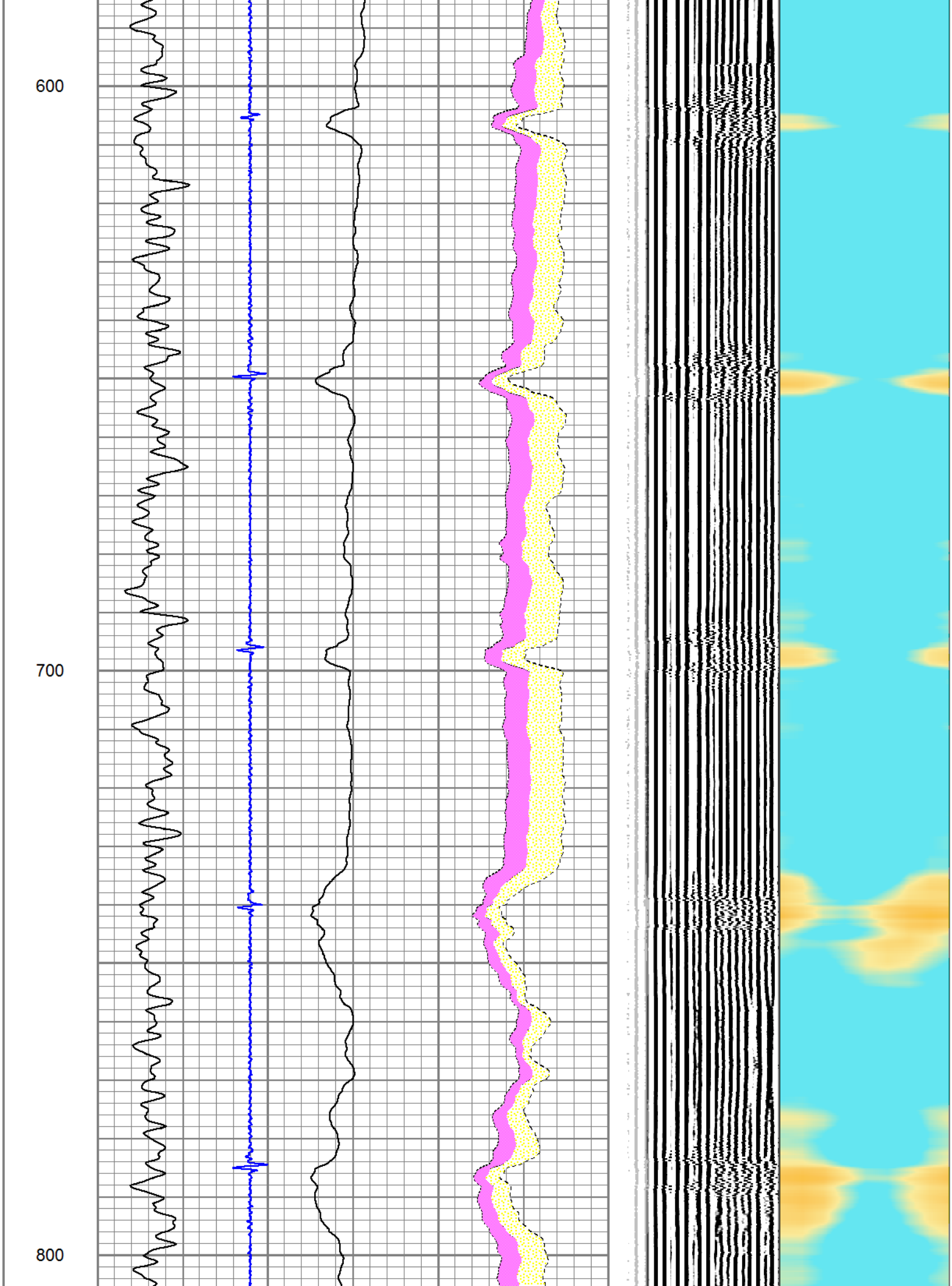
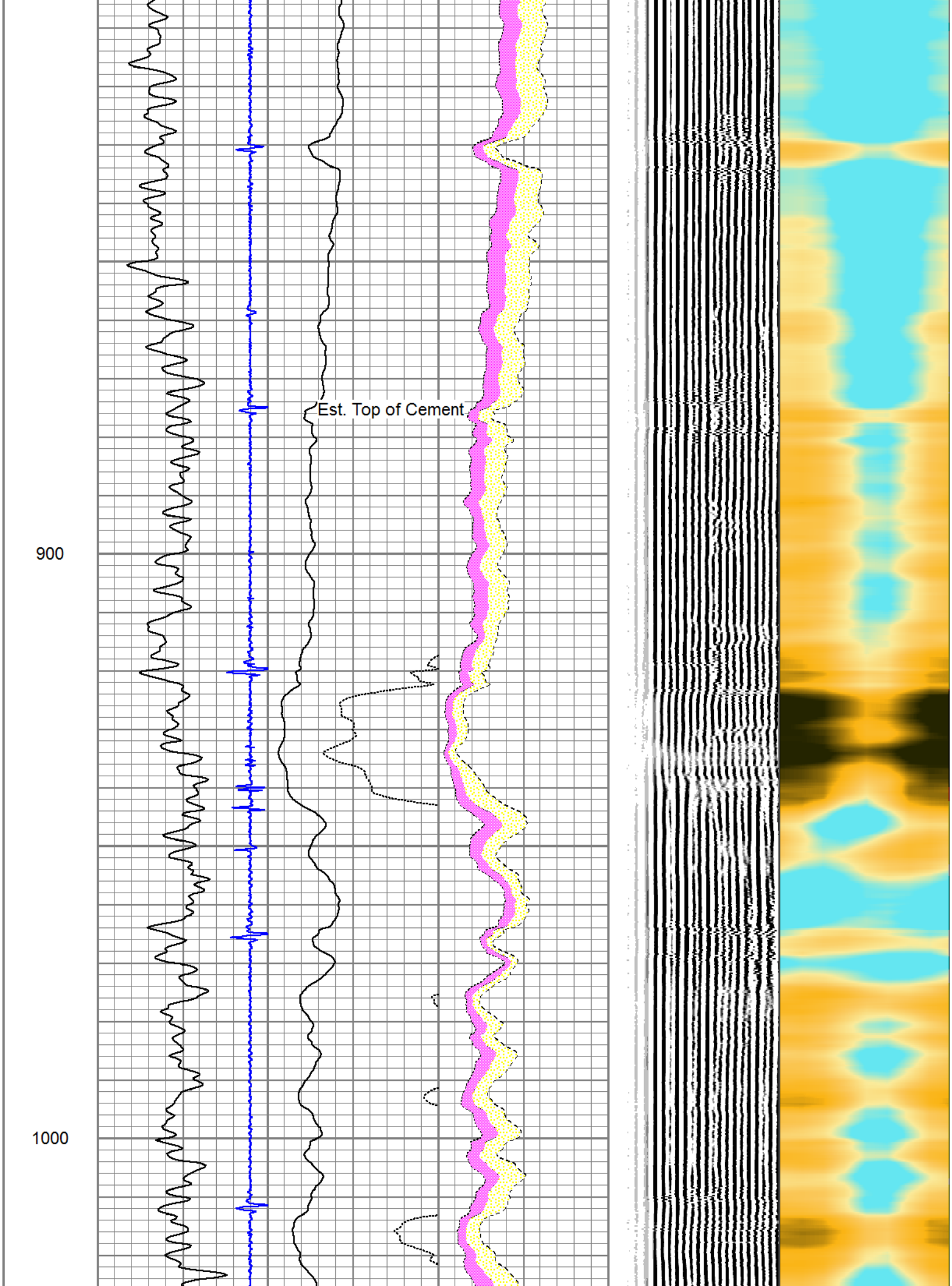
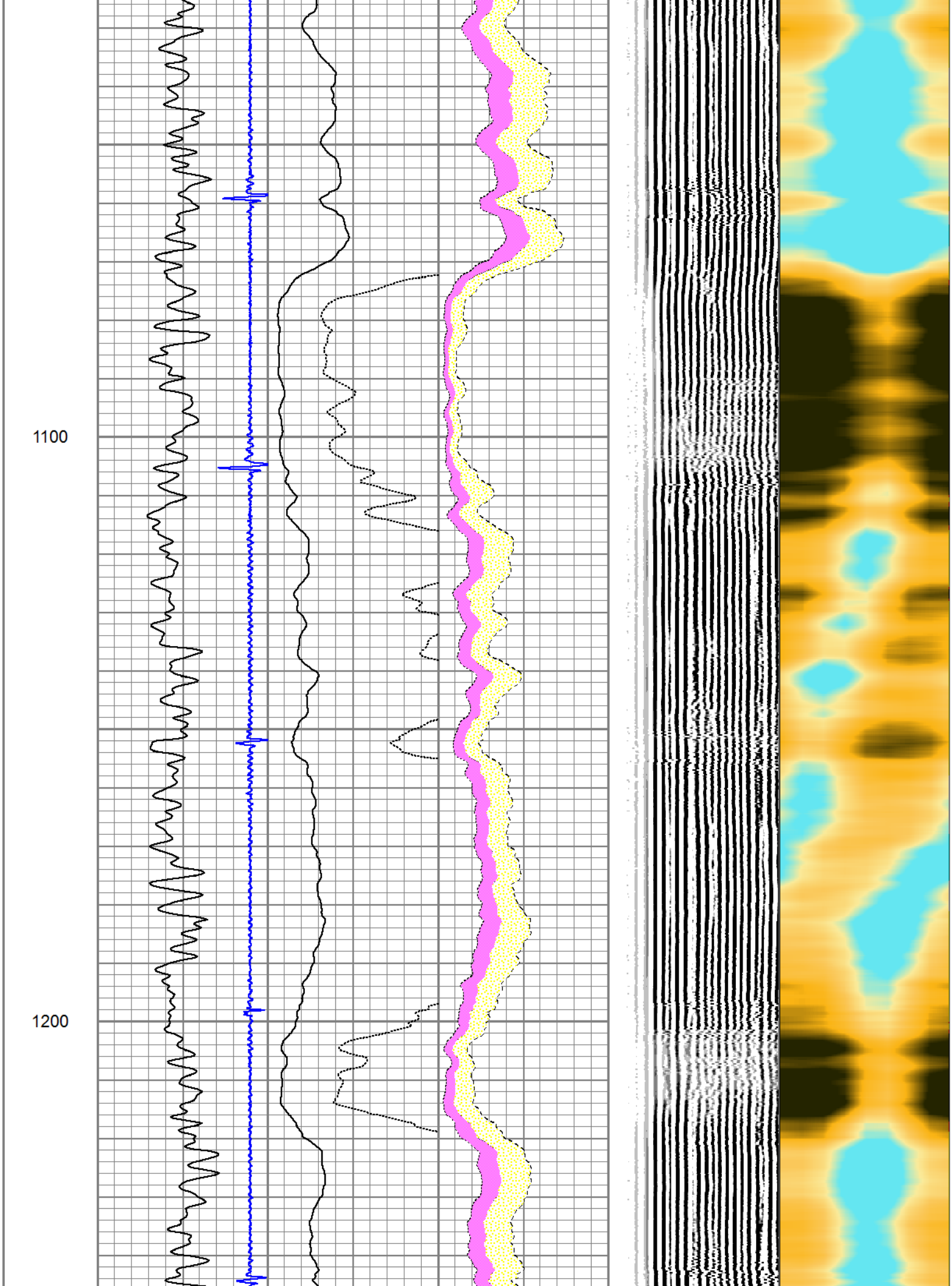

600
700
800


Est. Top of Cement
900
1000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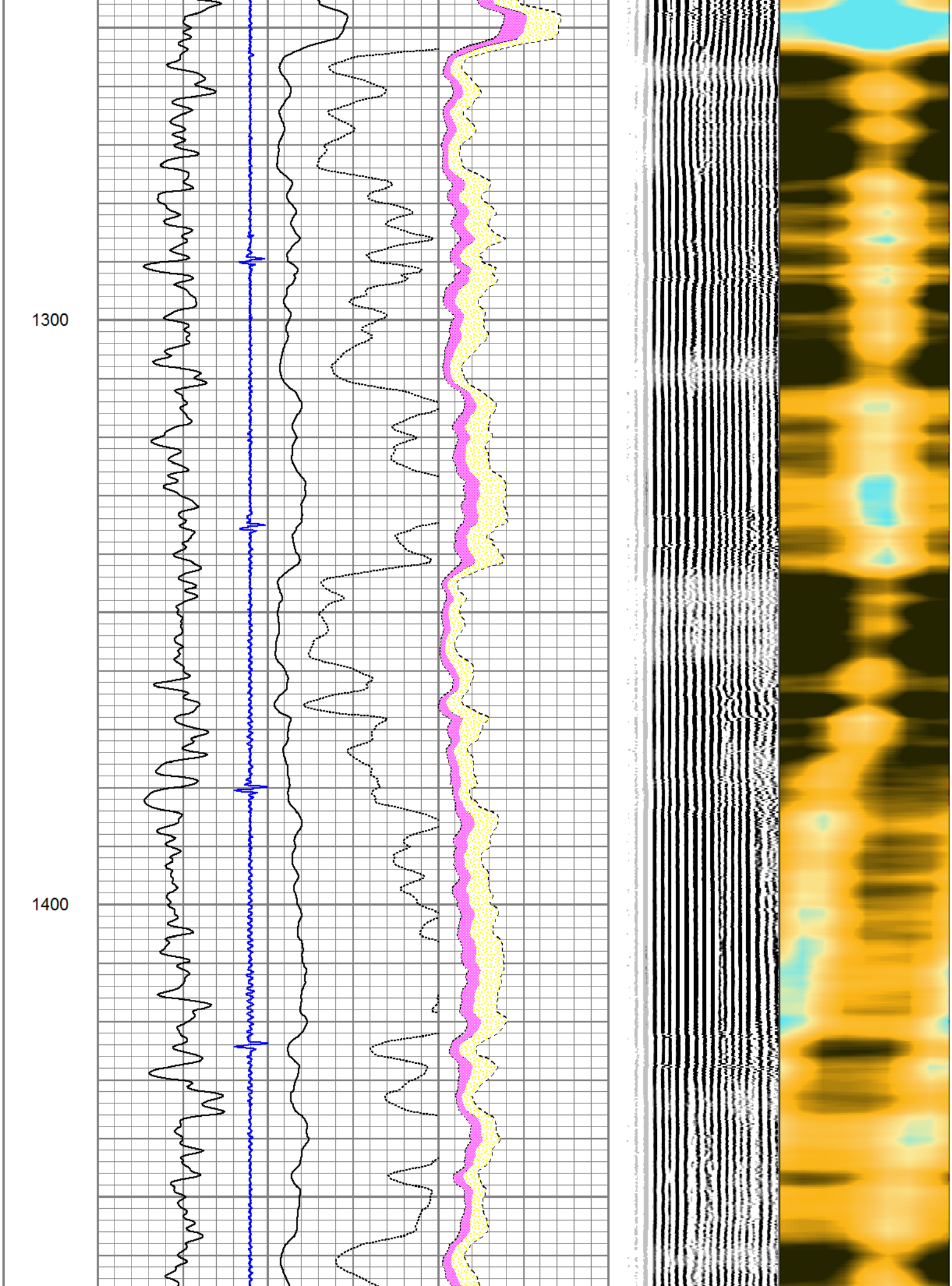
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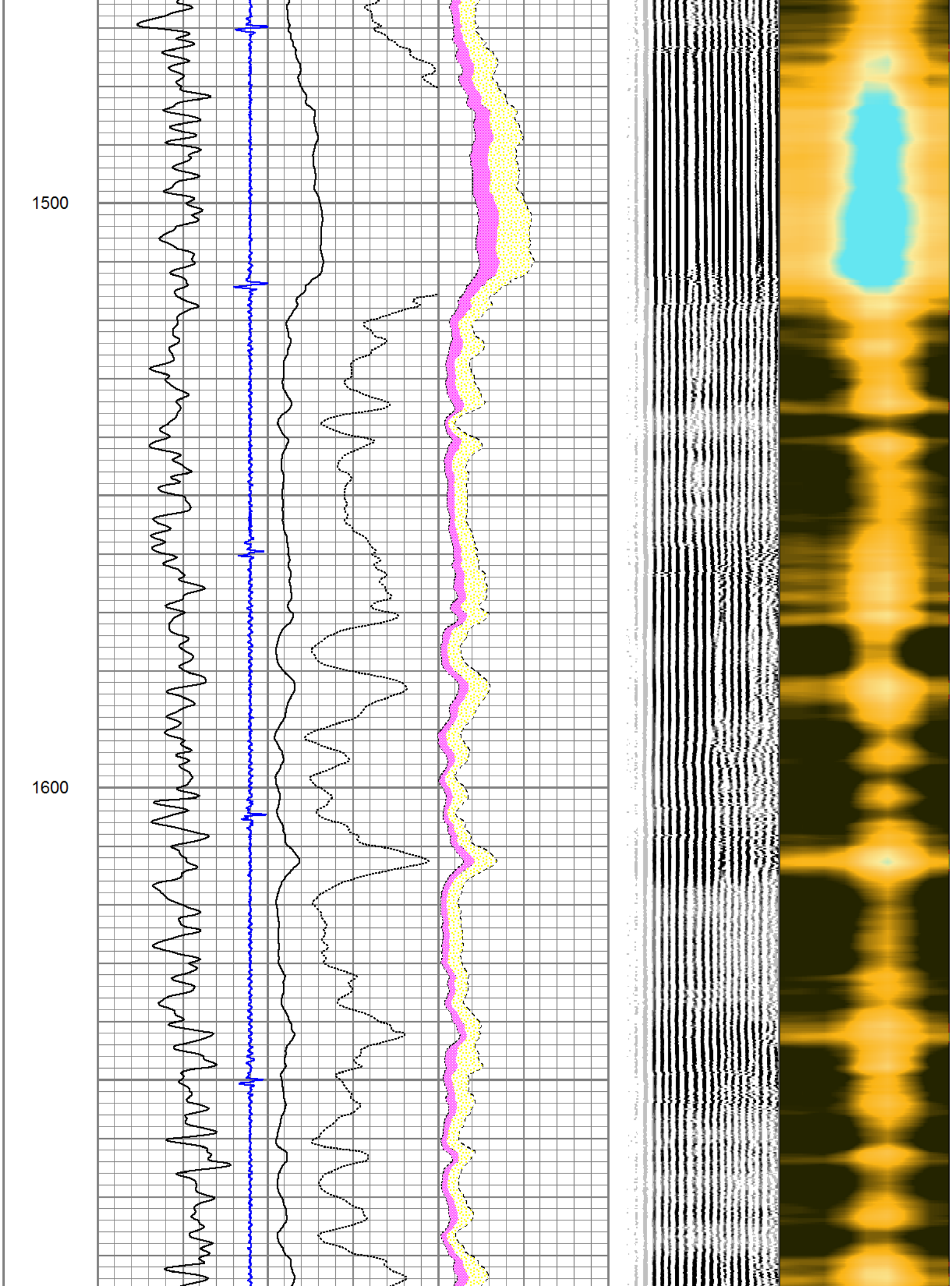
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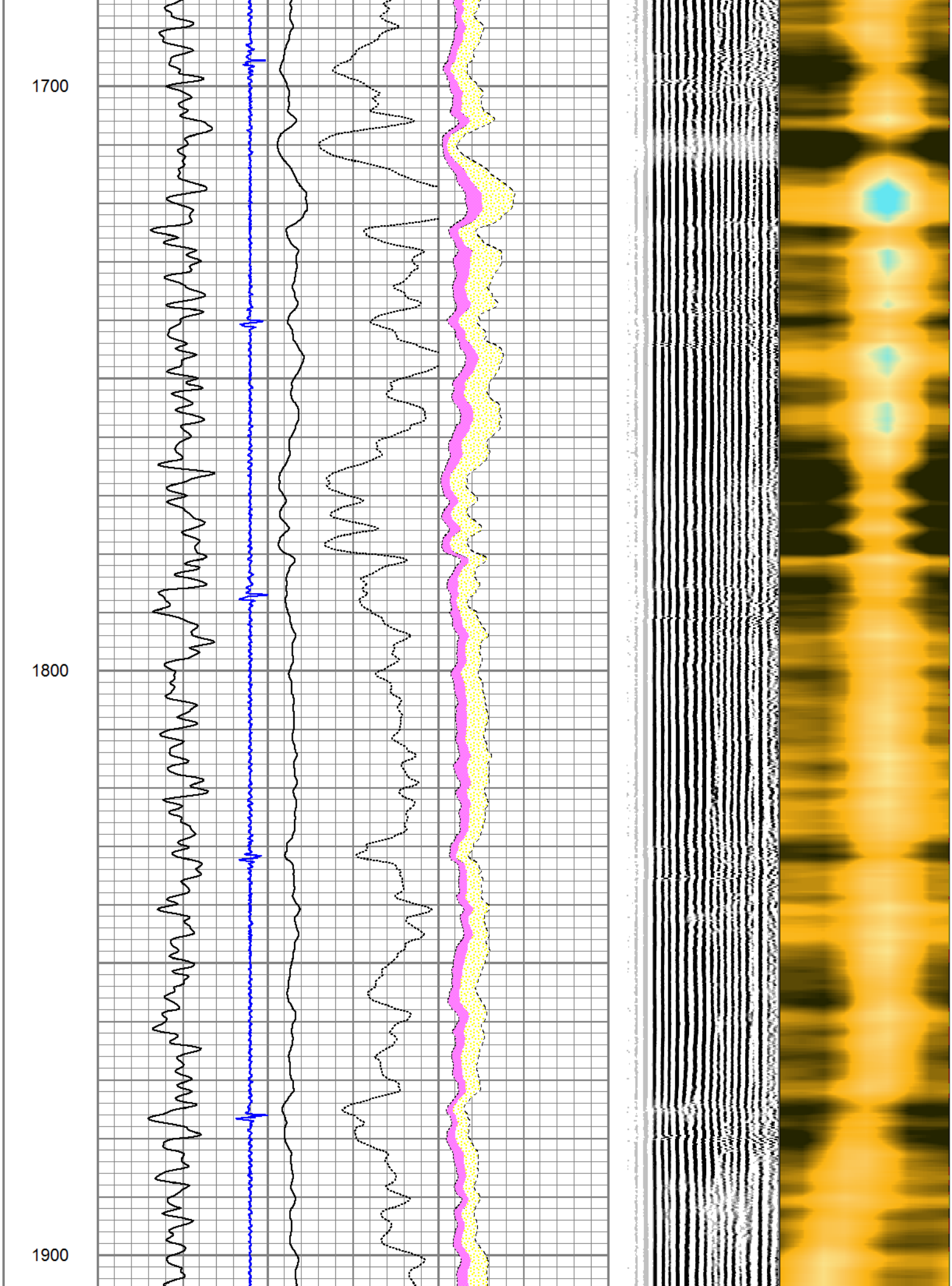
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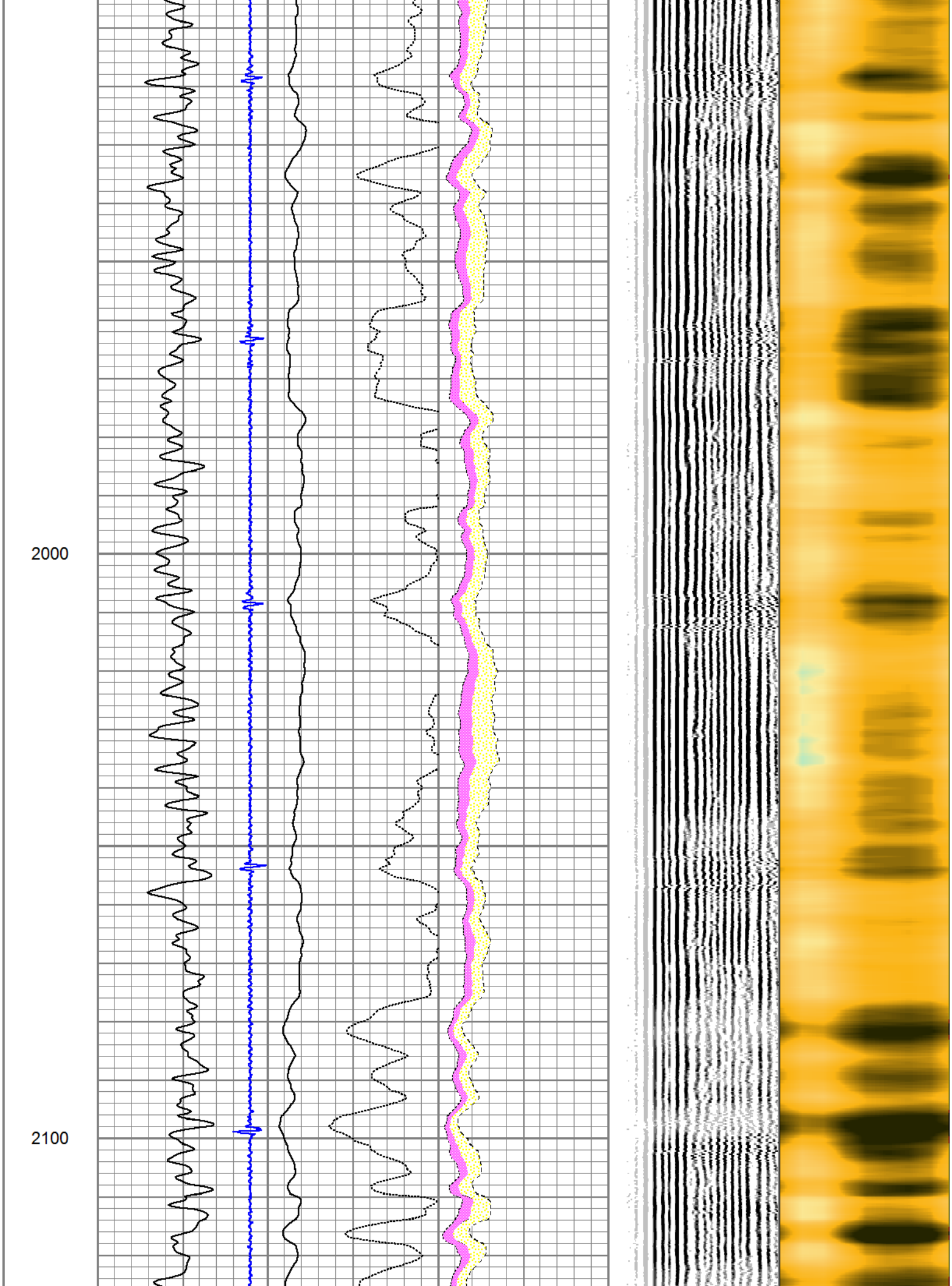
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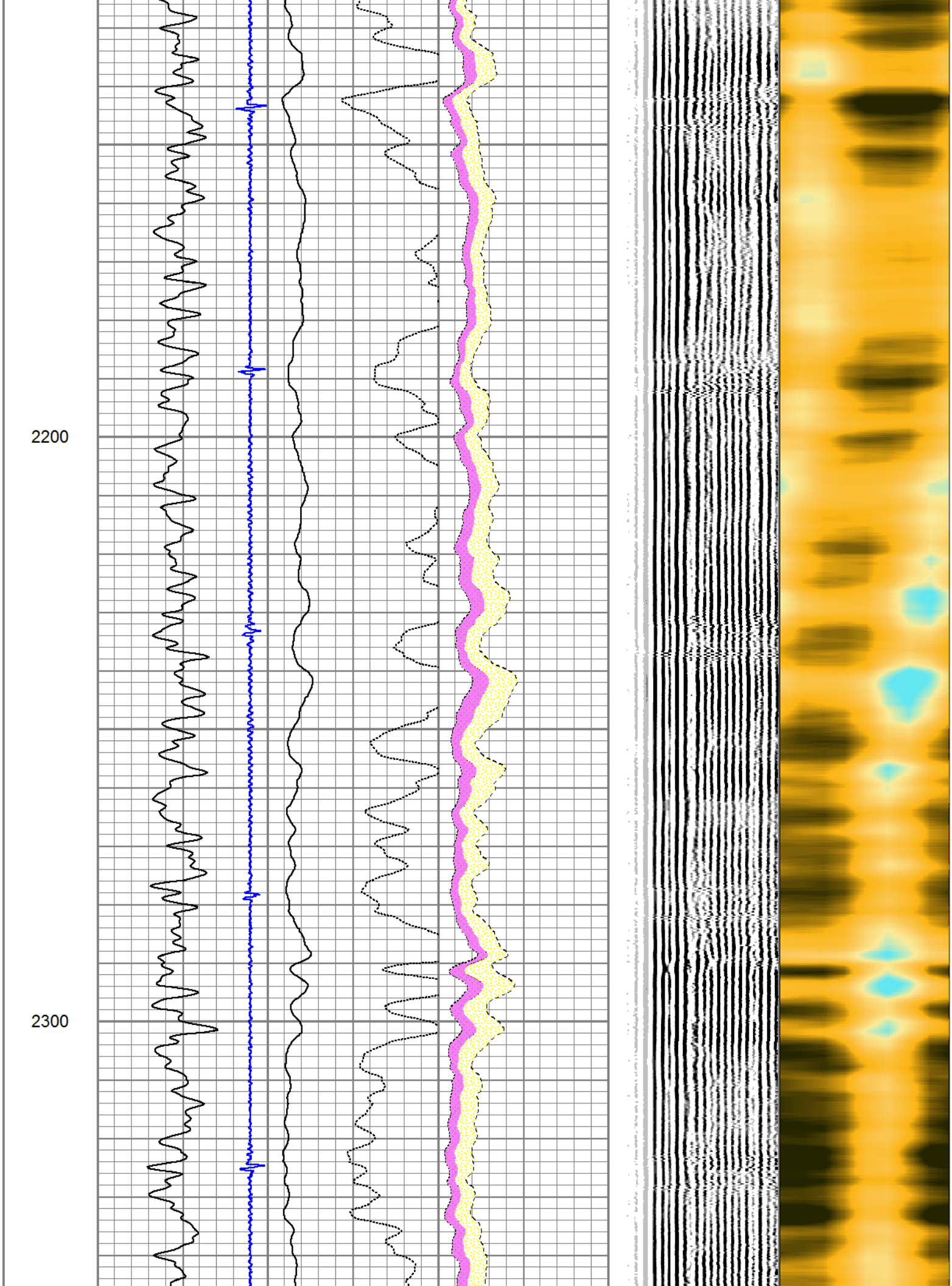
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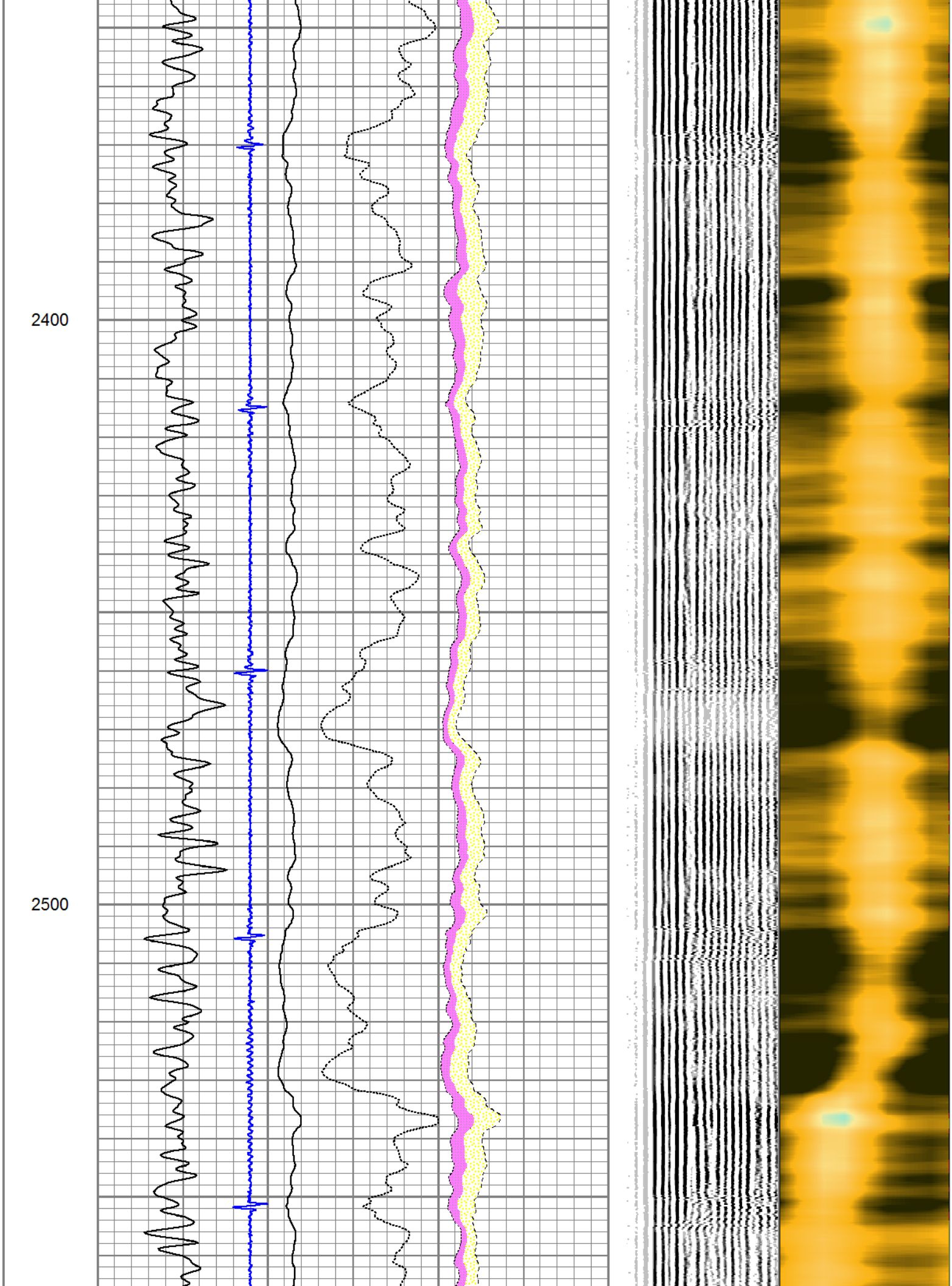
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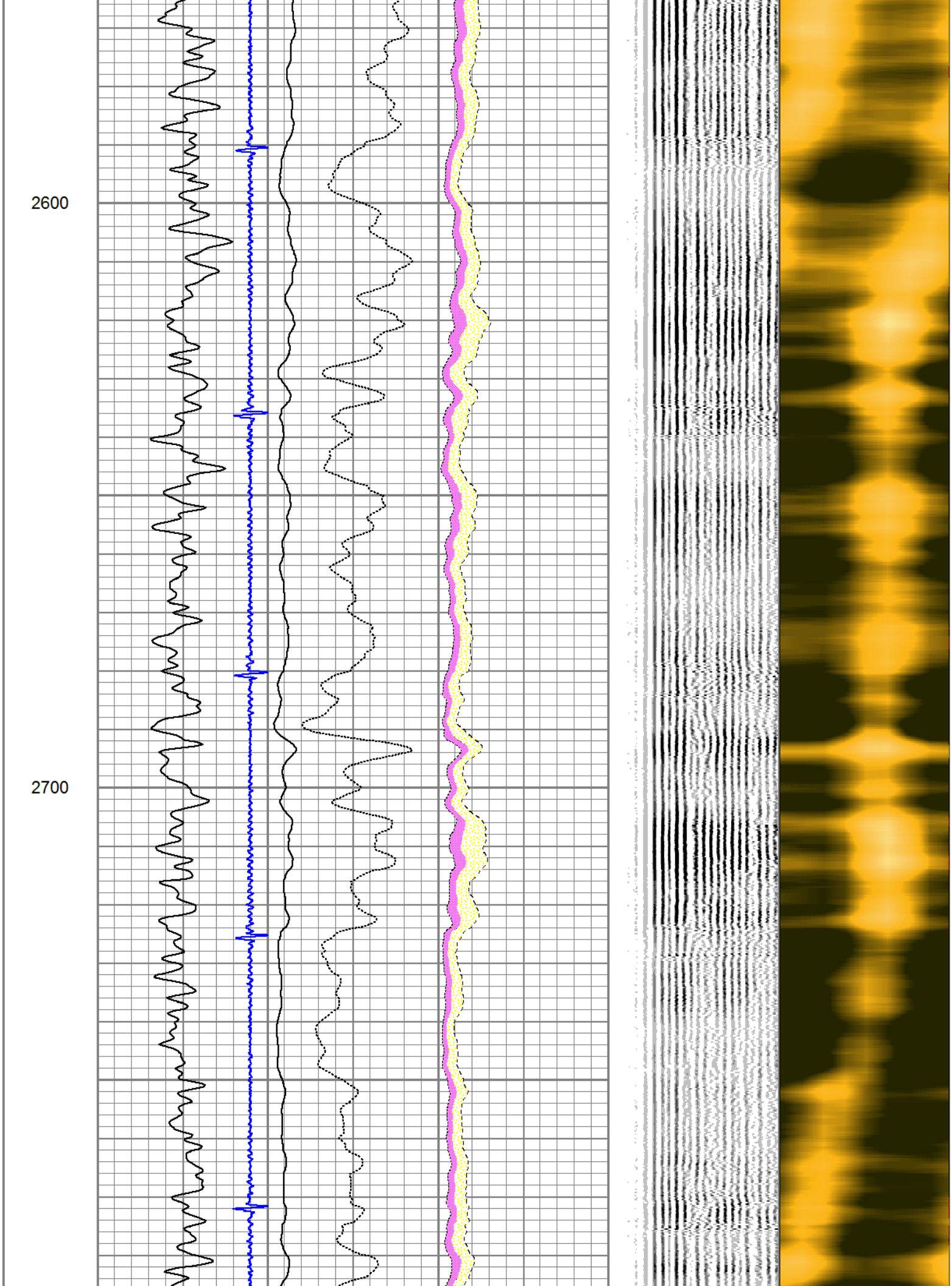
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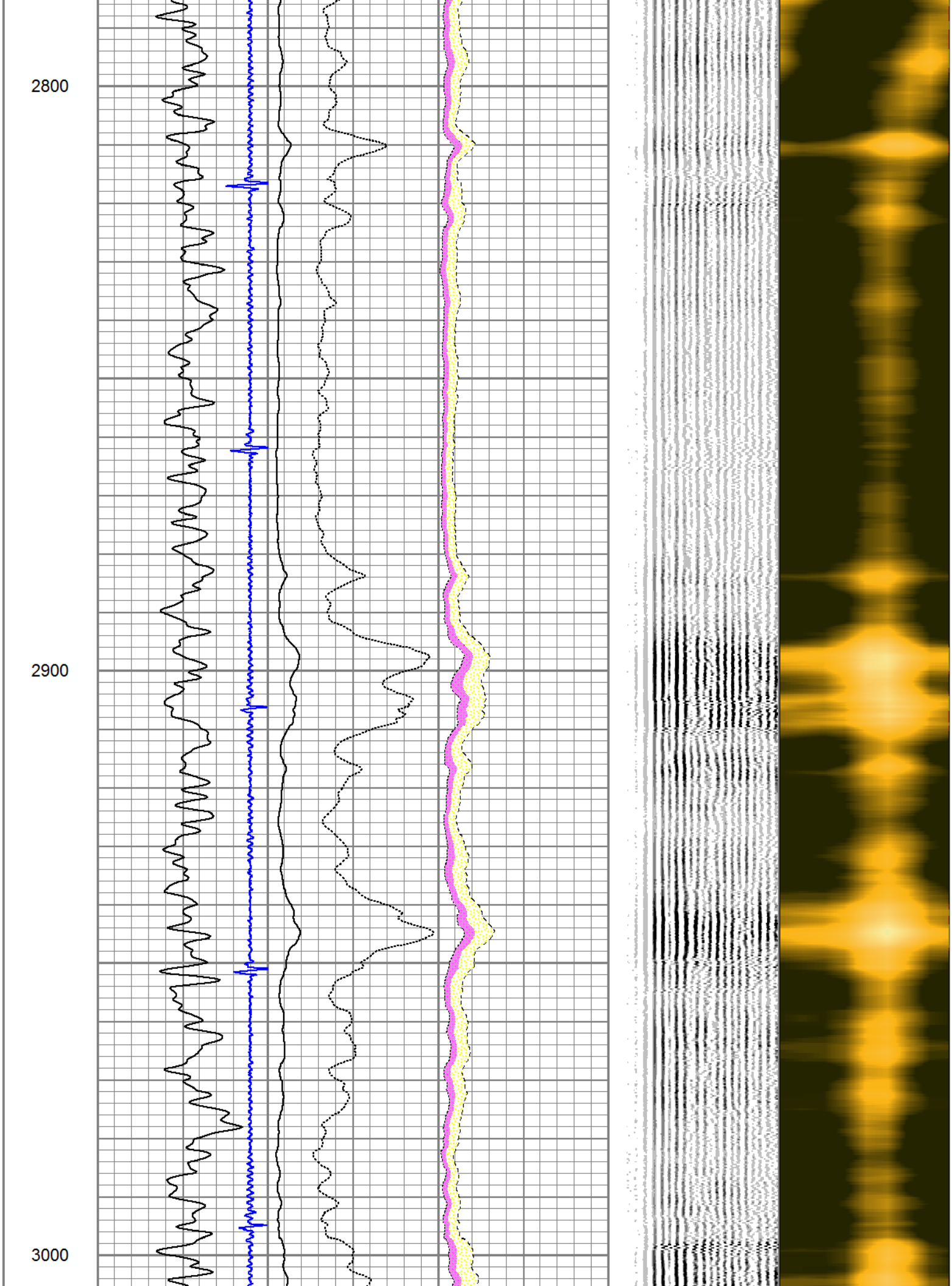
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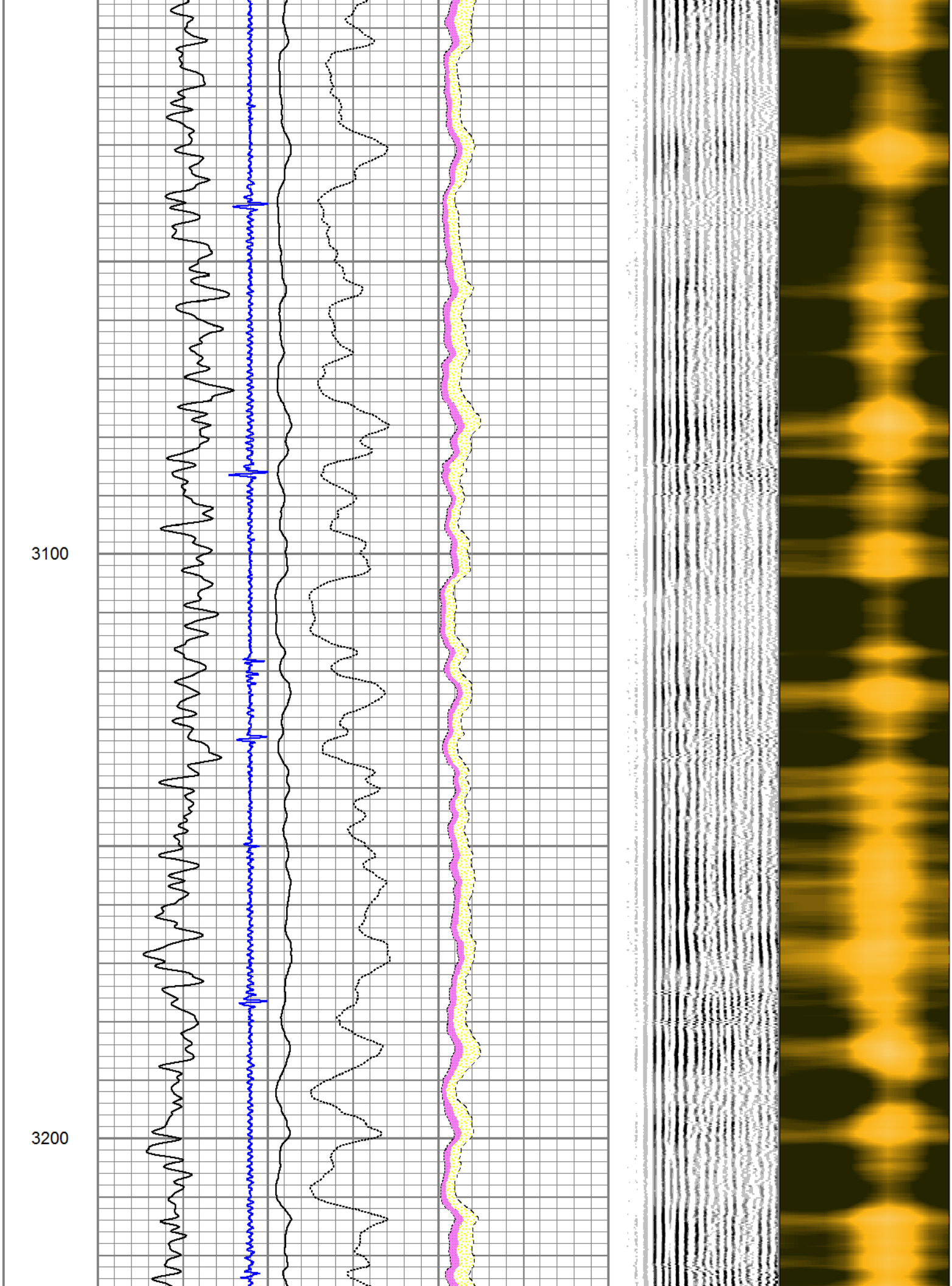
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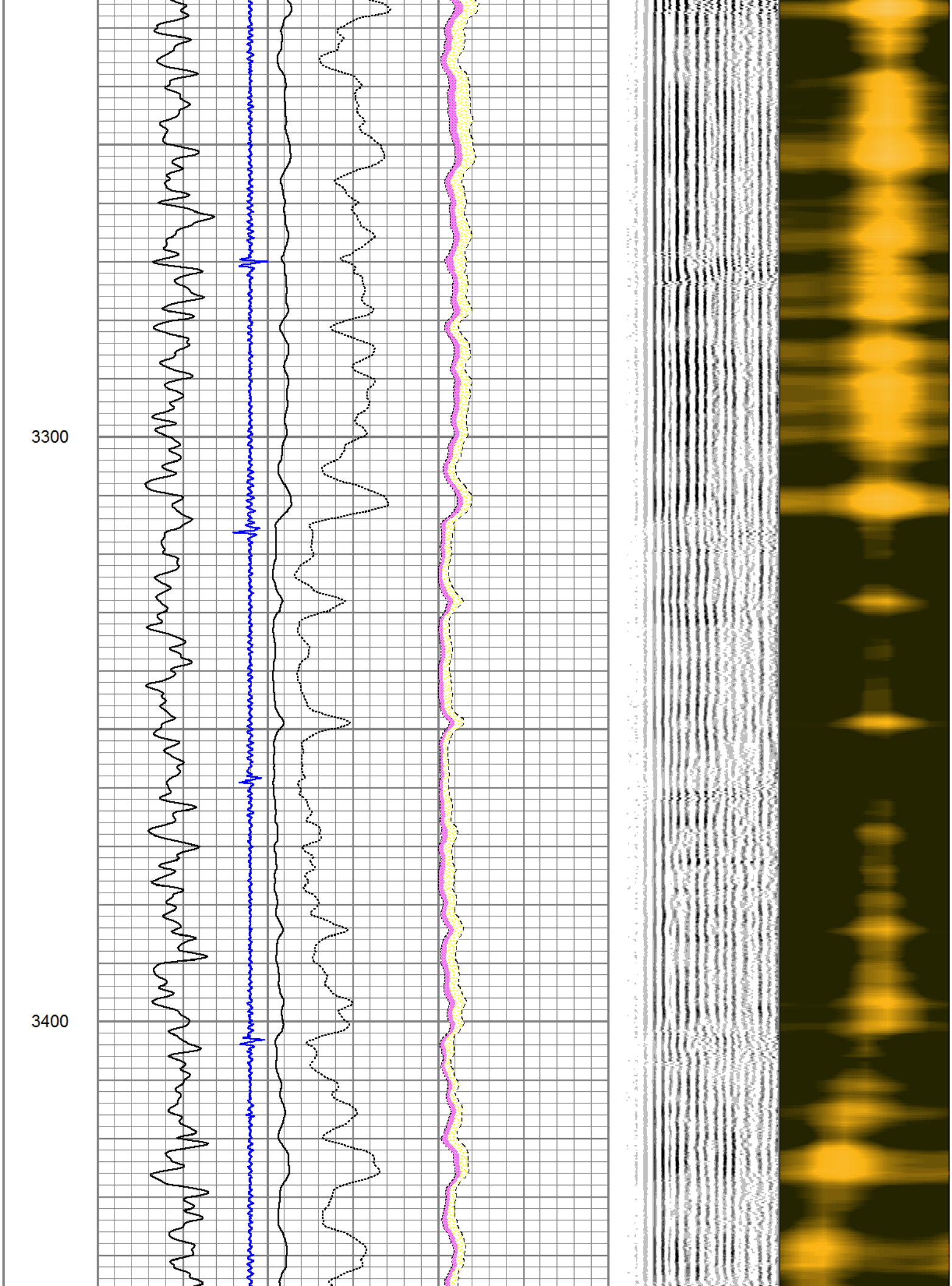
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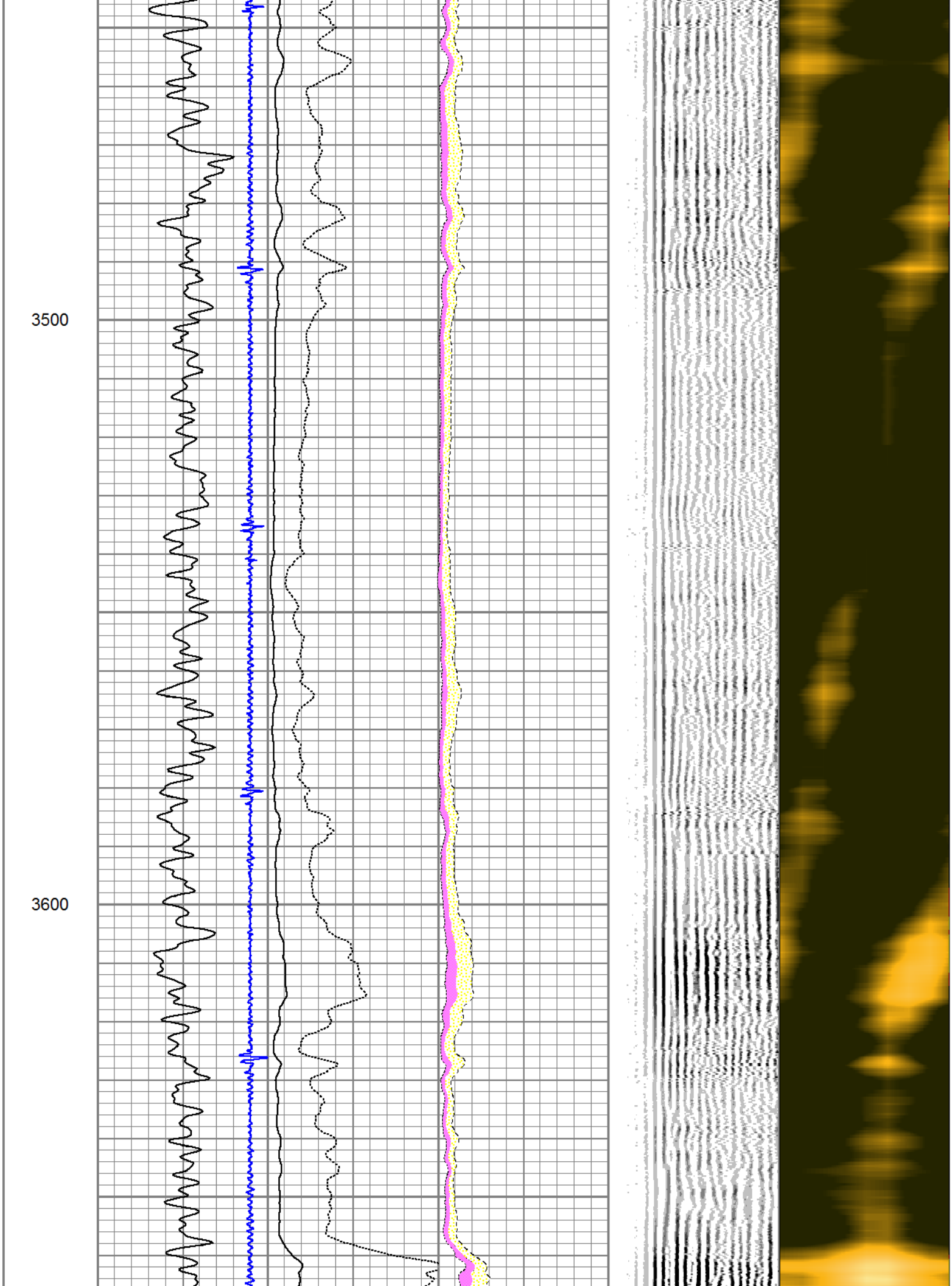
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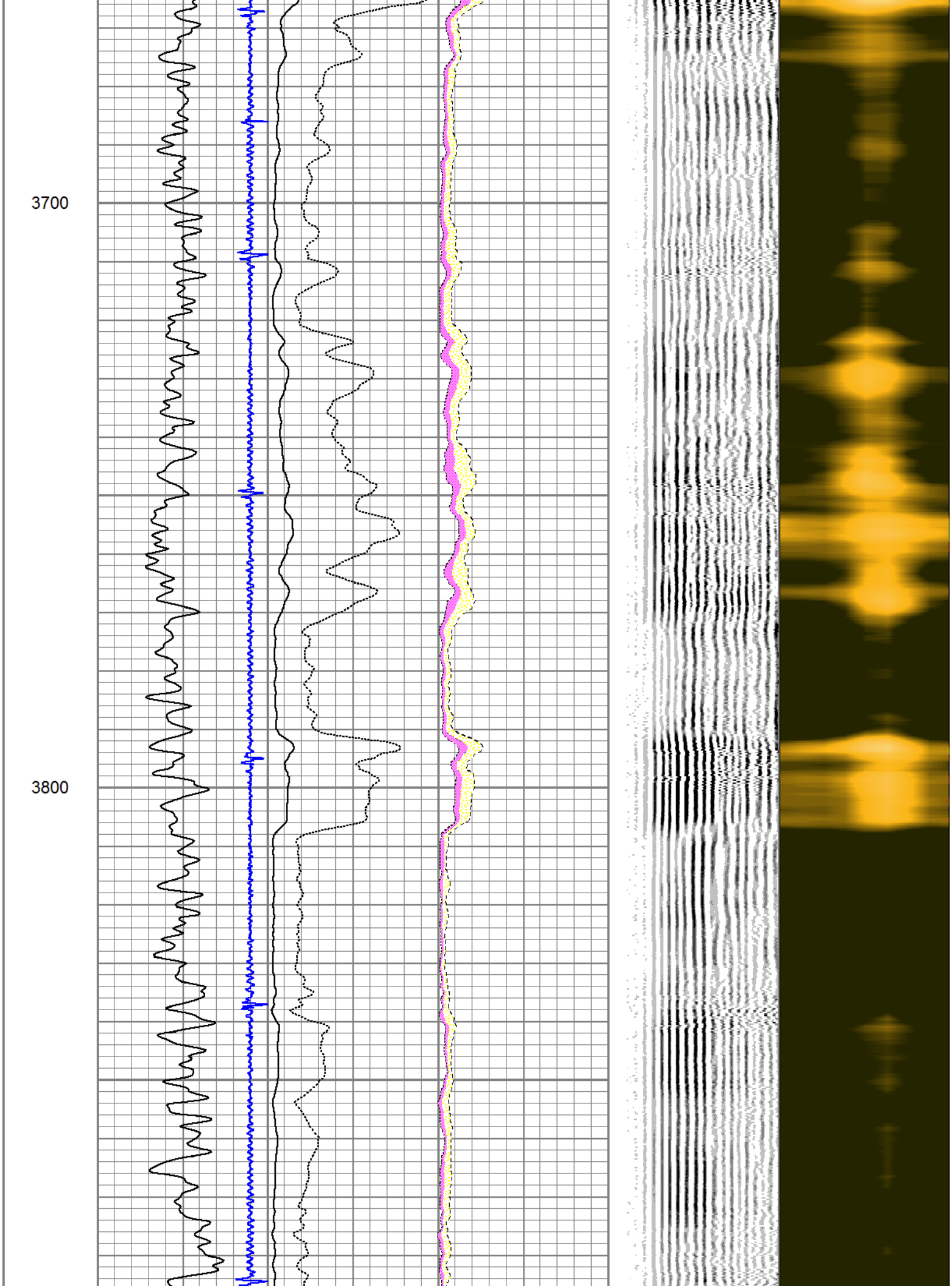
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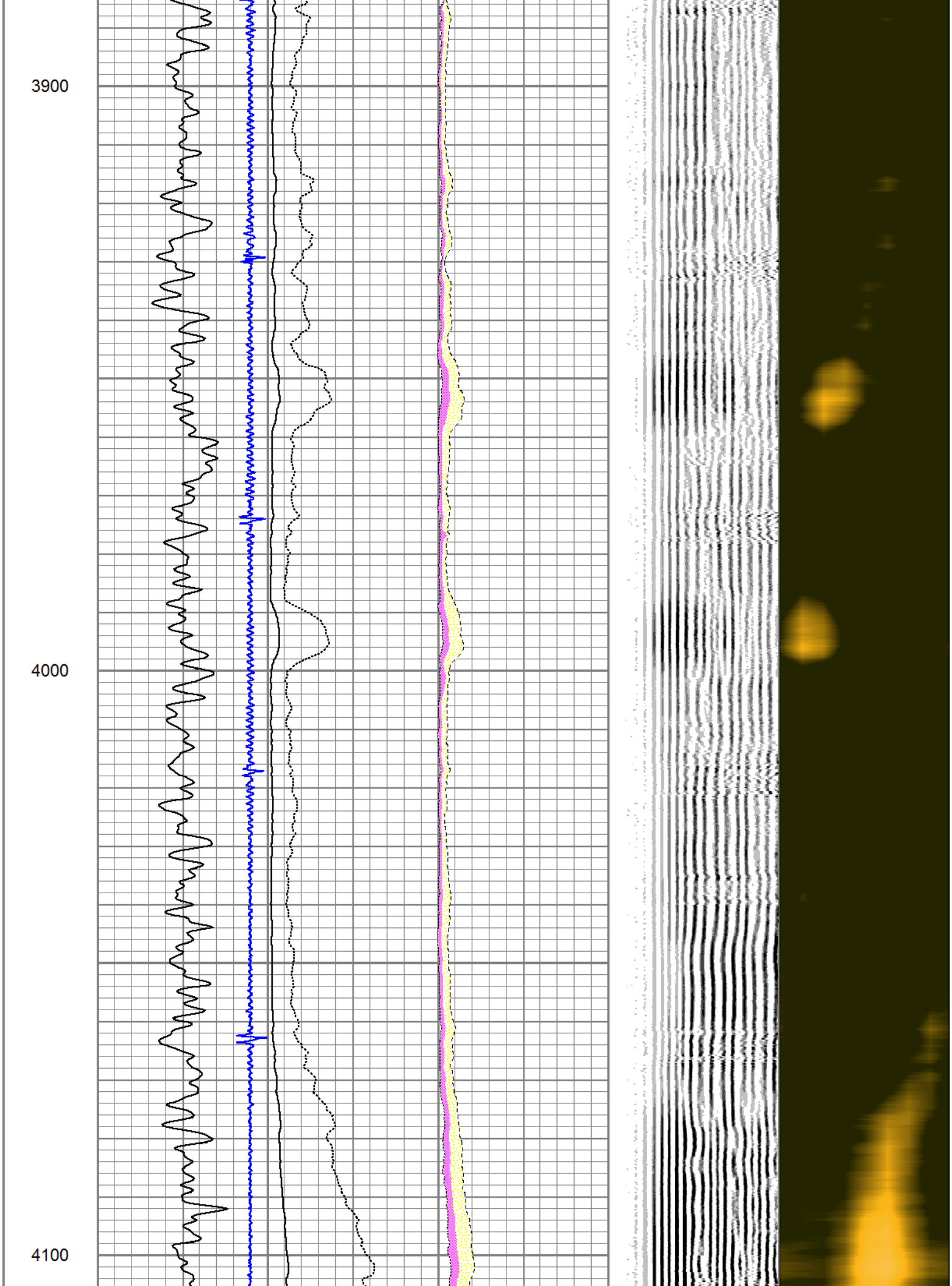
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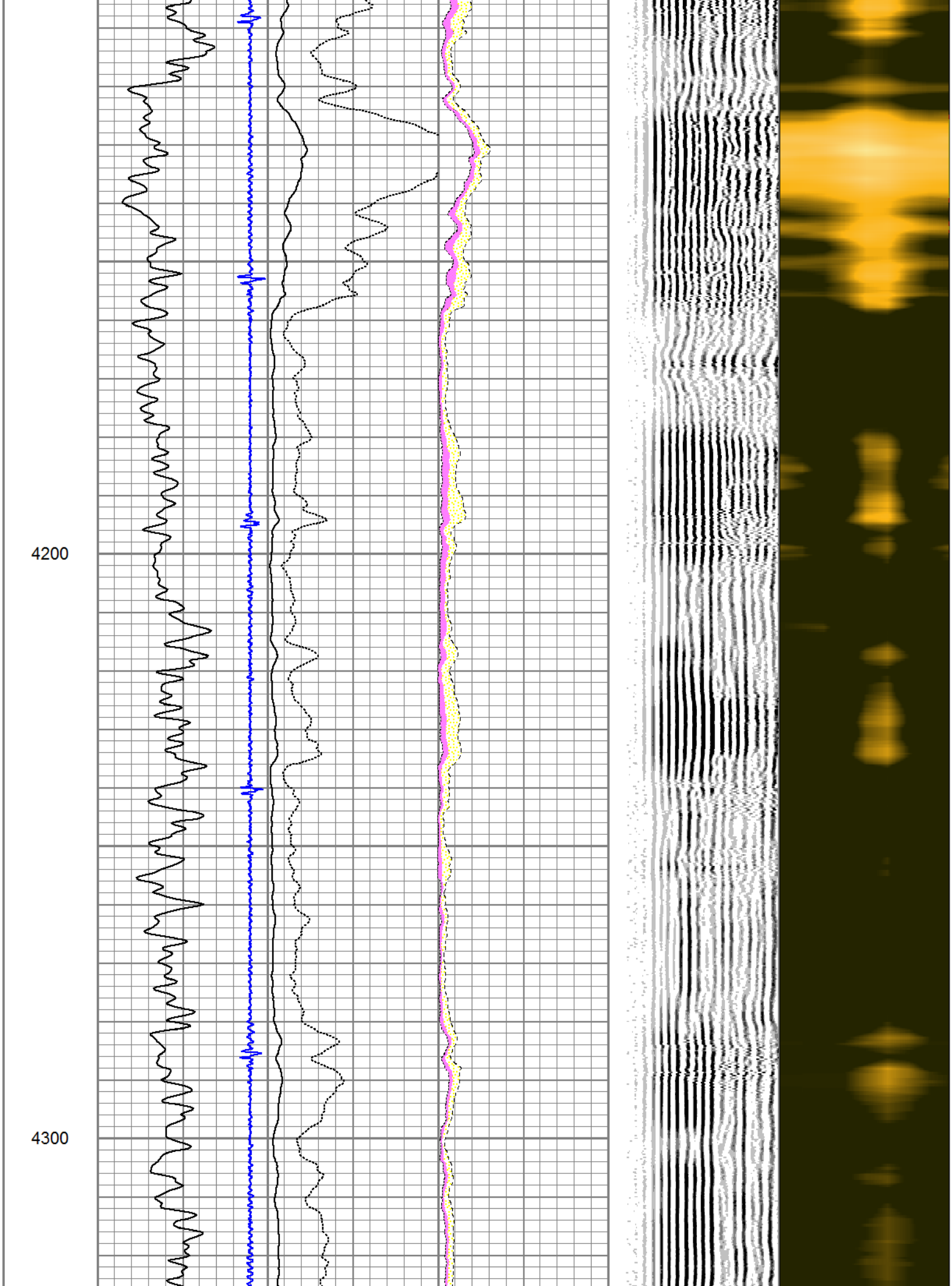
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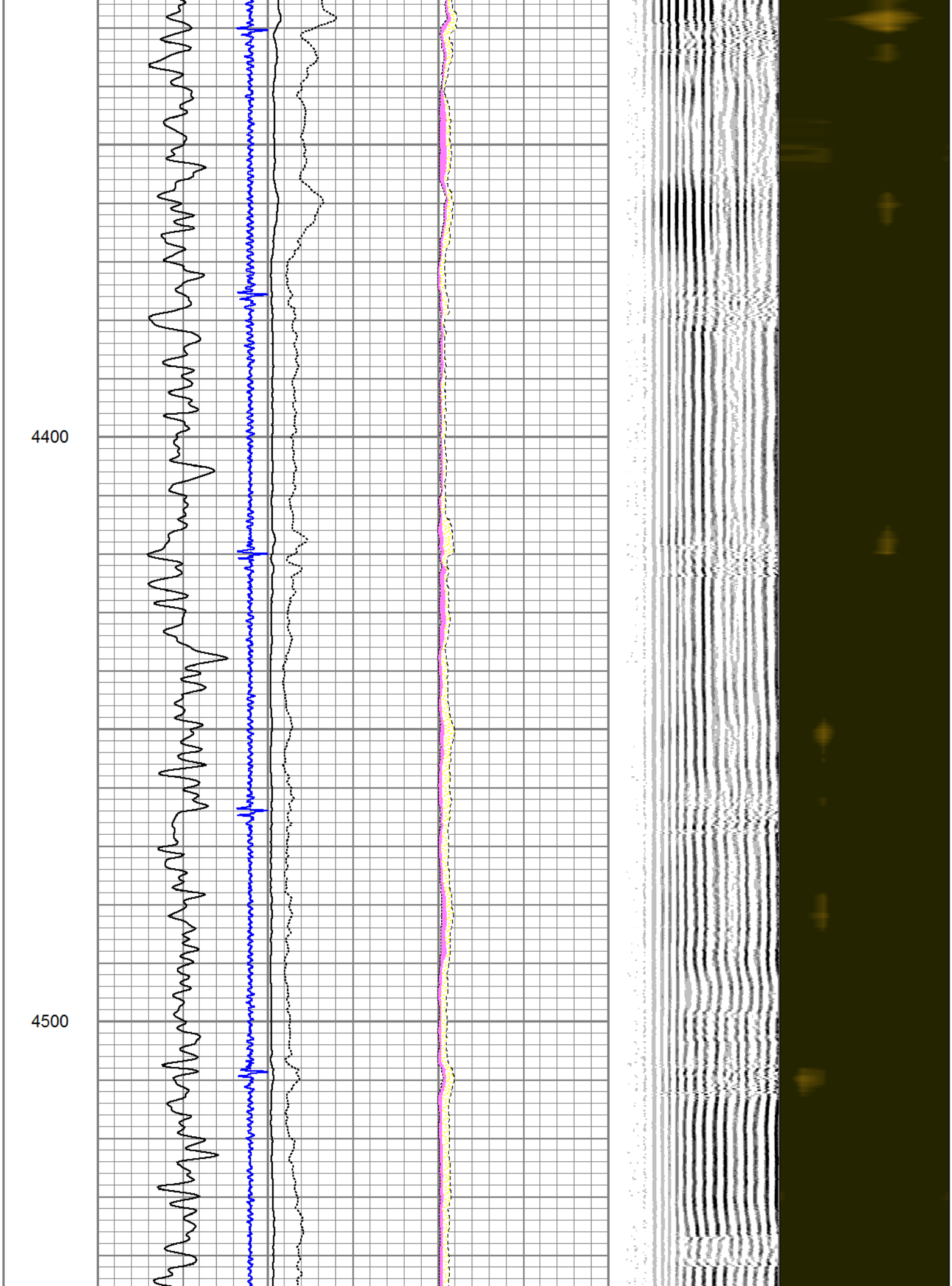
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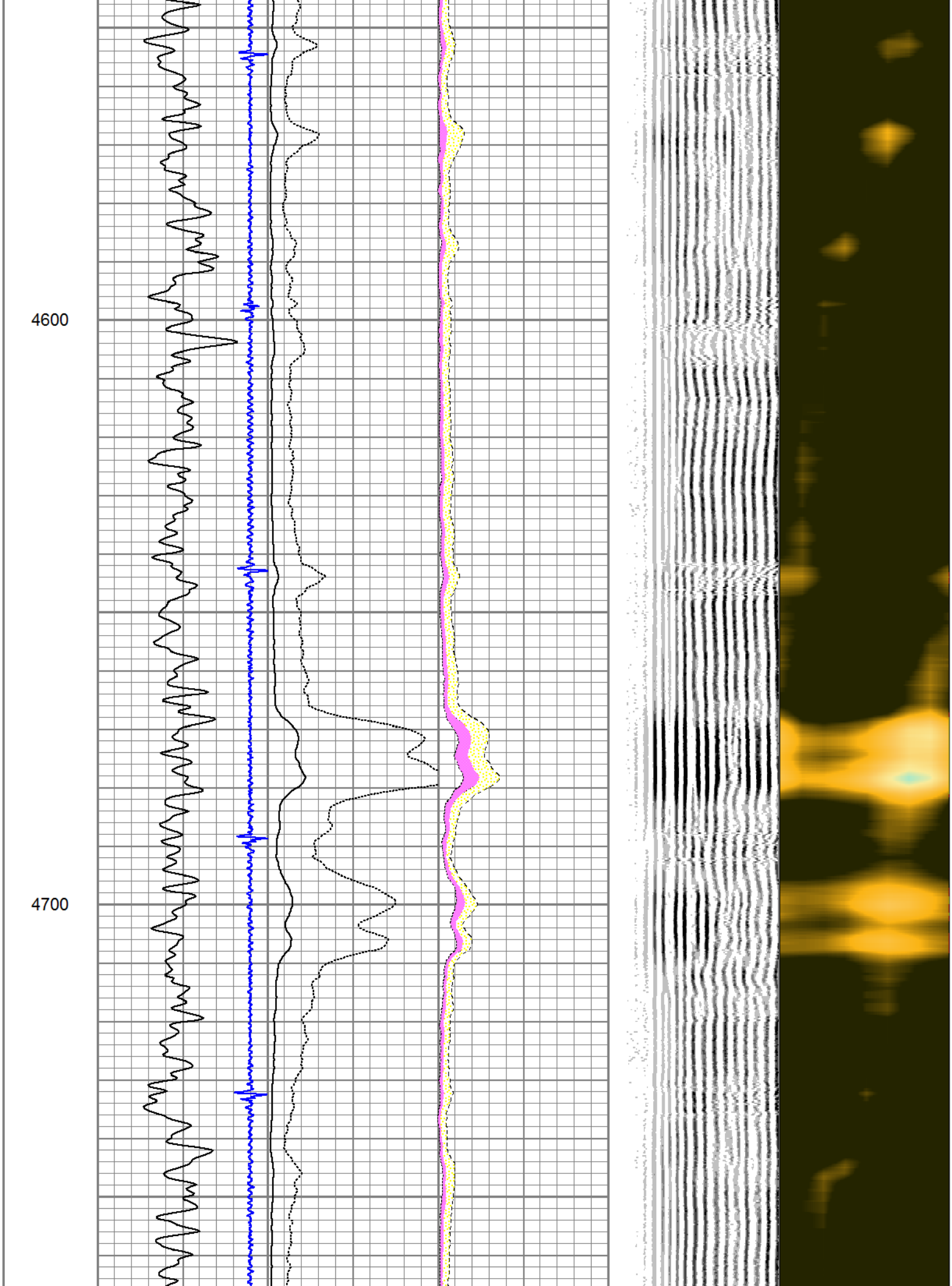
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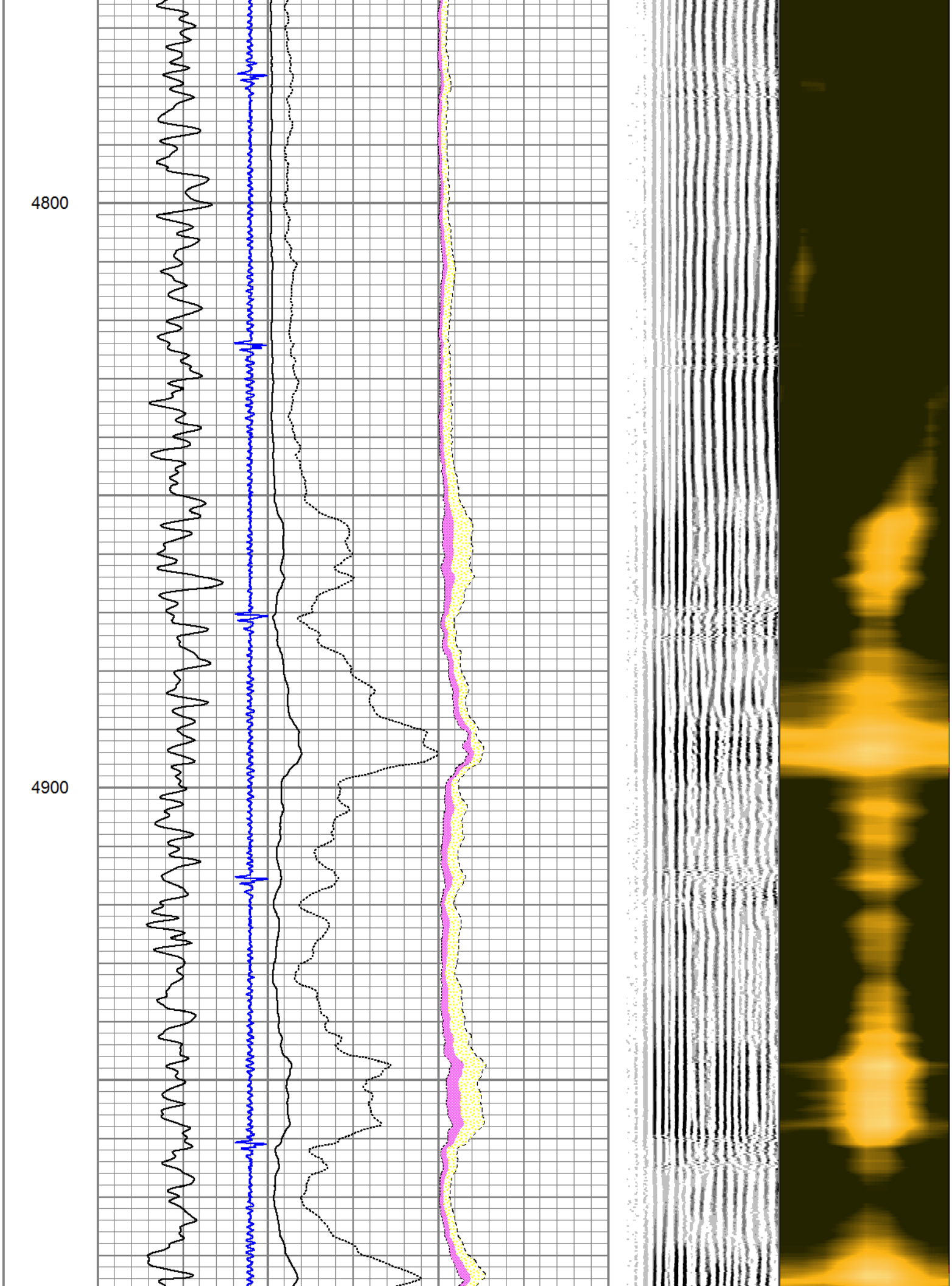
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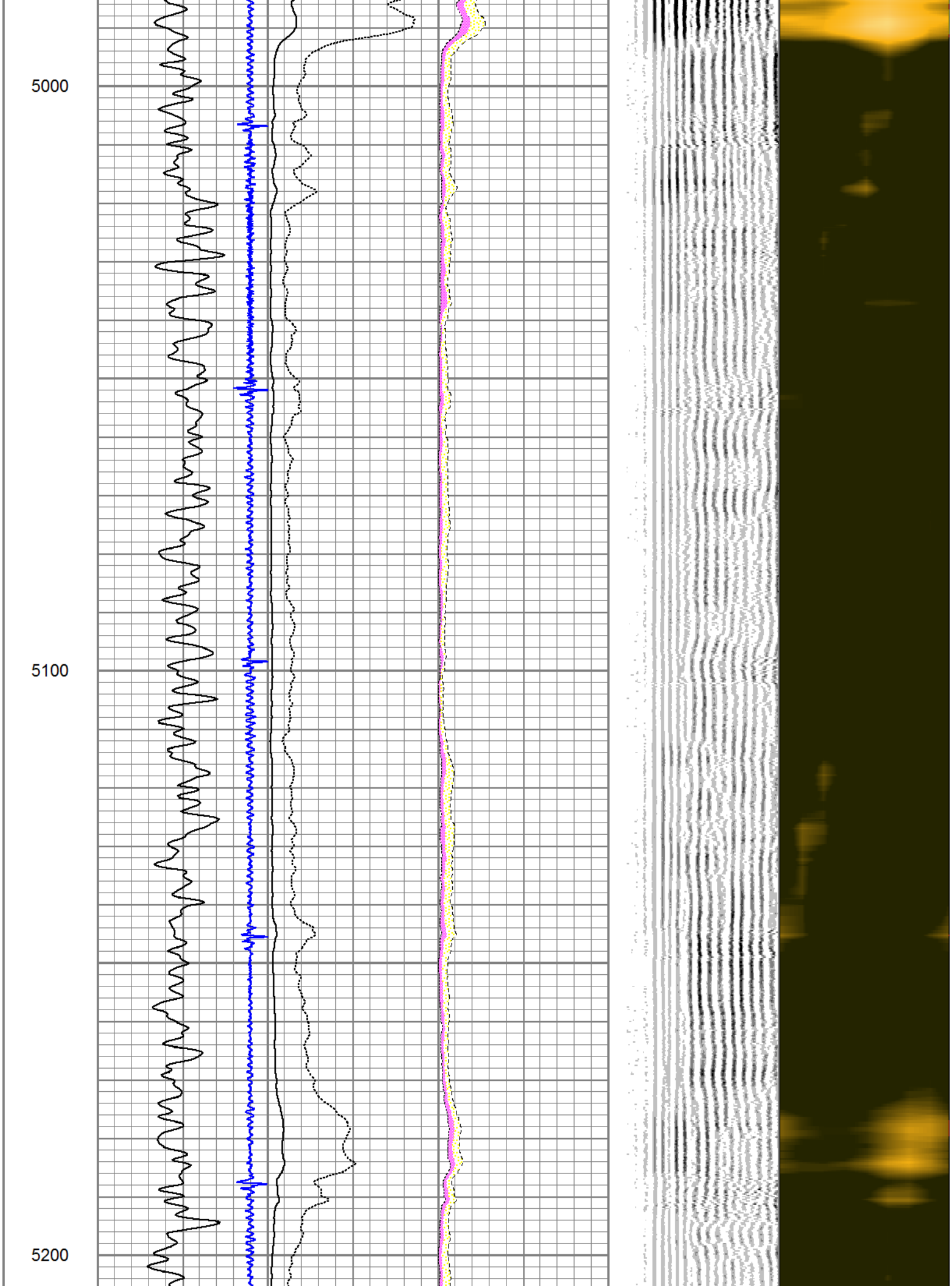
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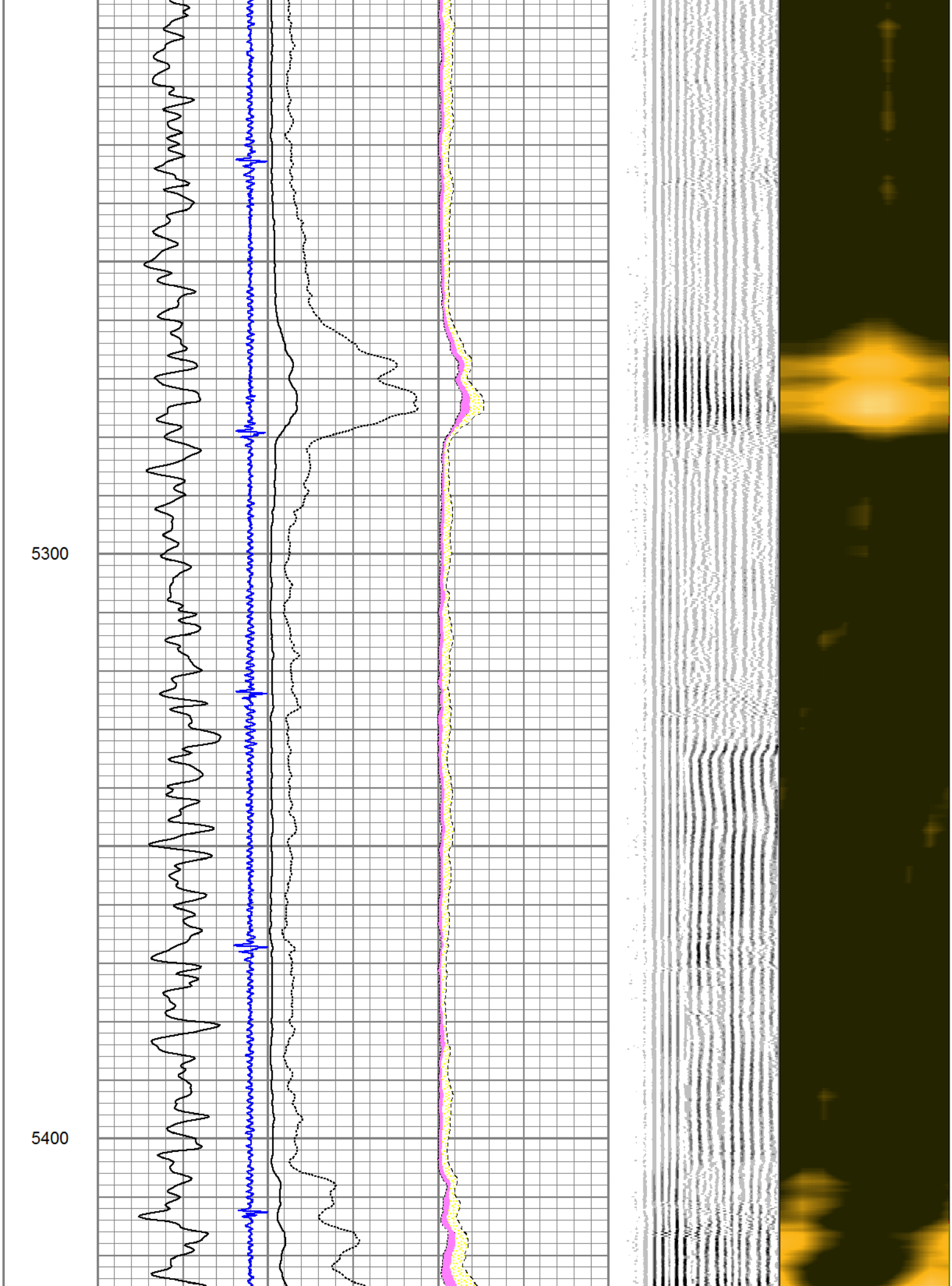
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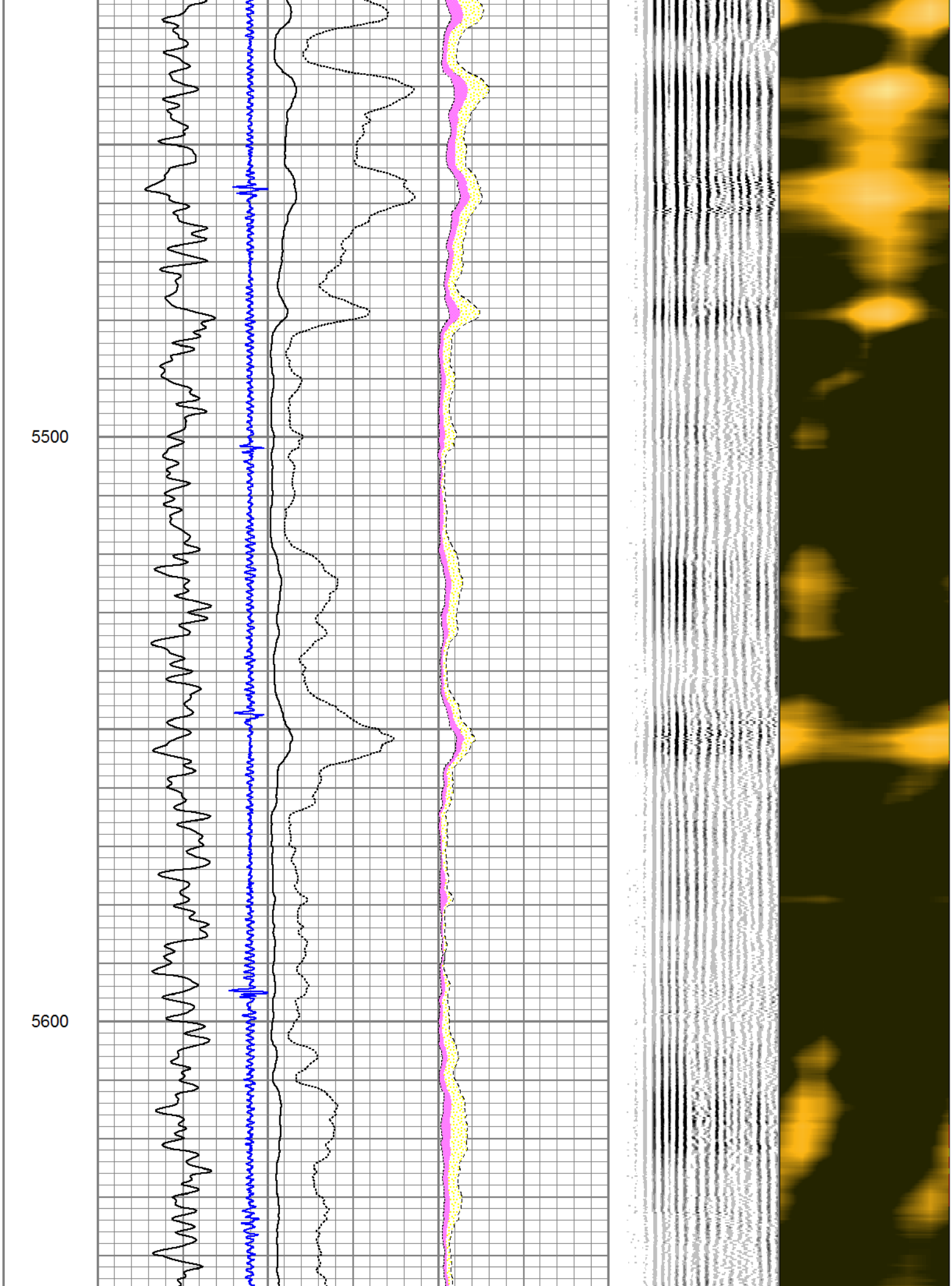
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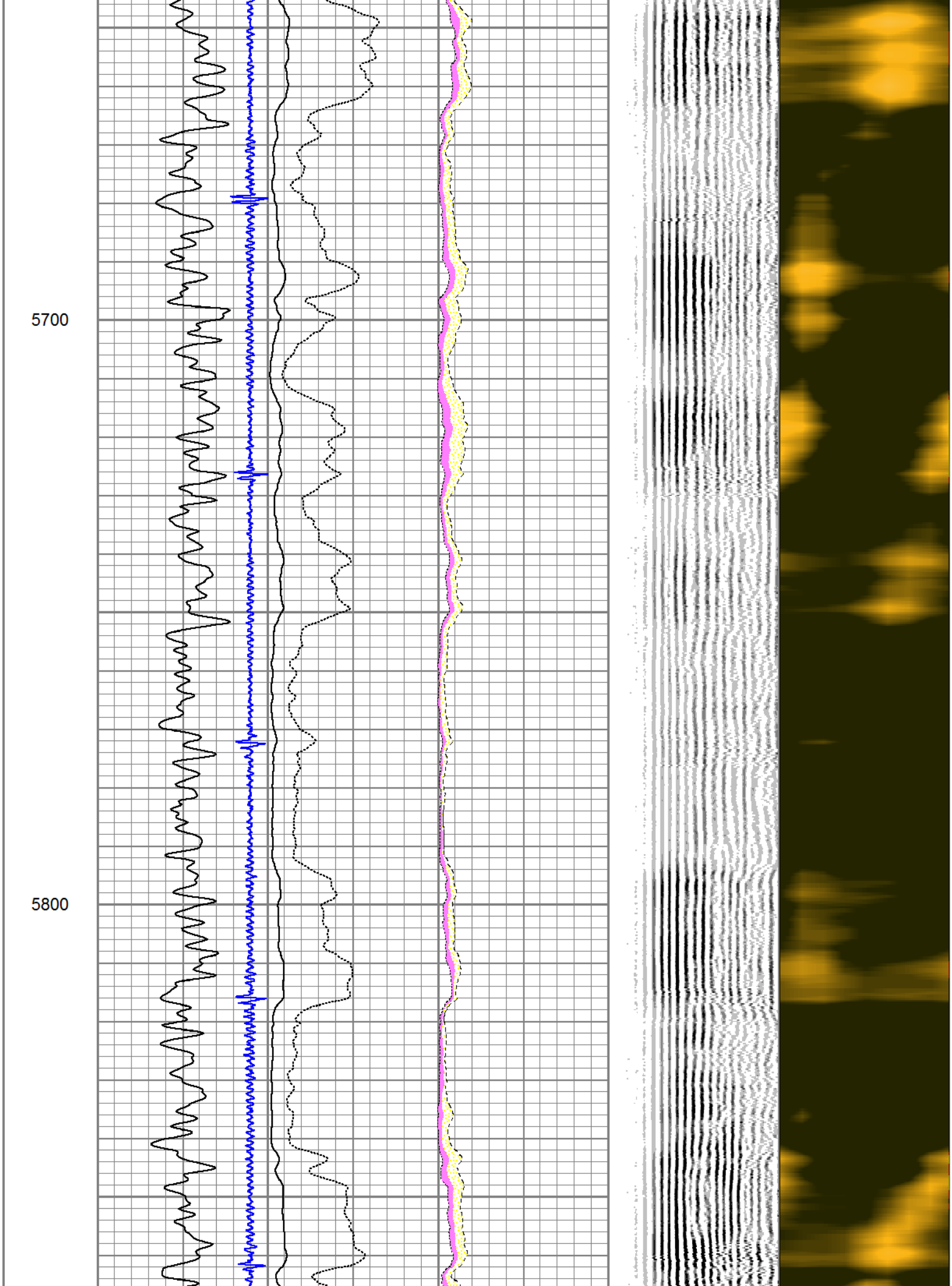
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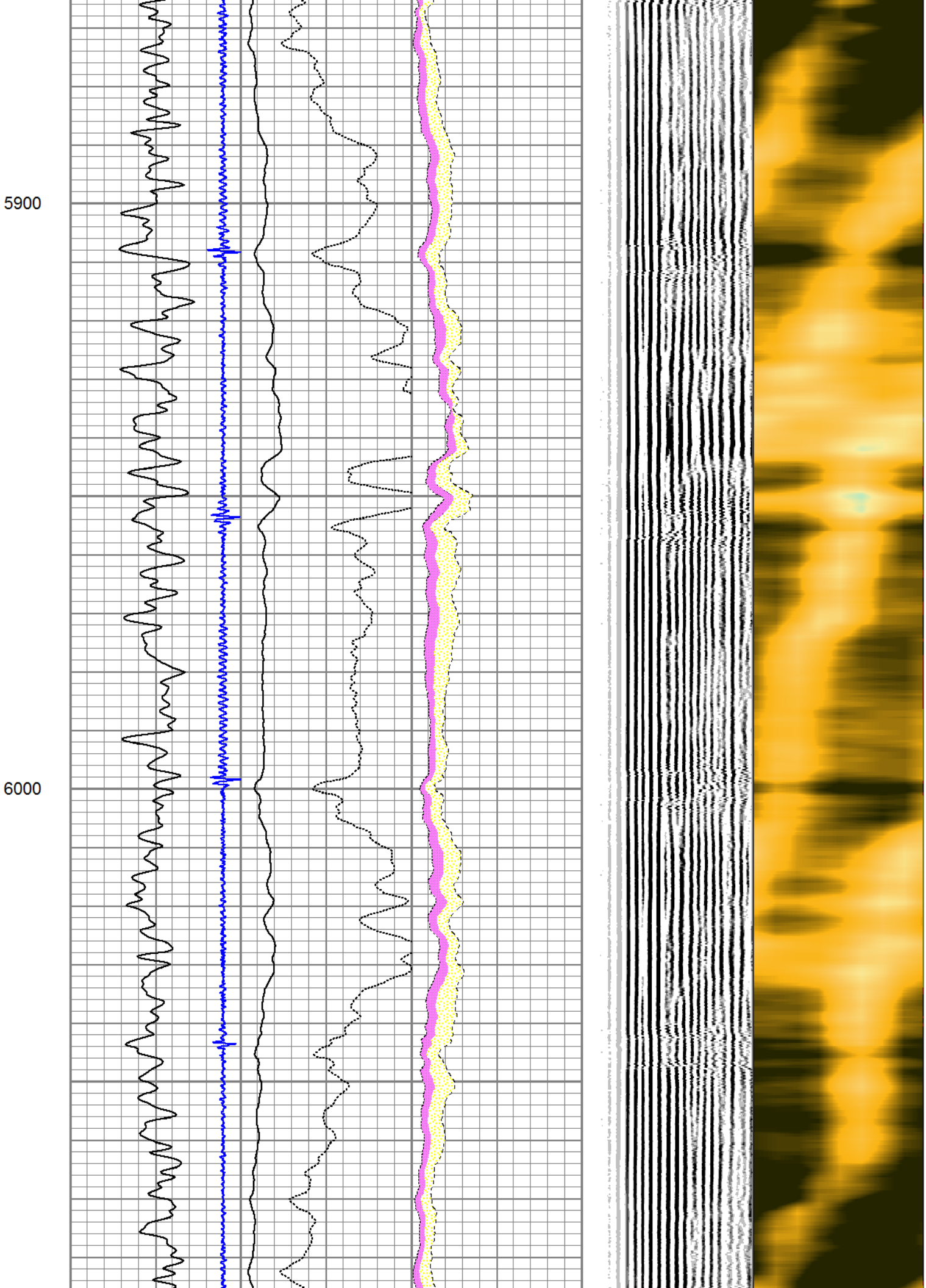
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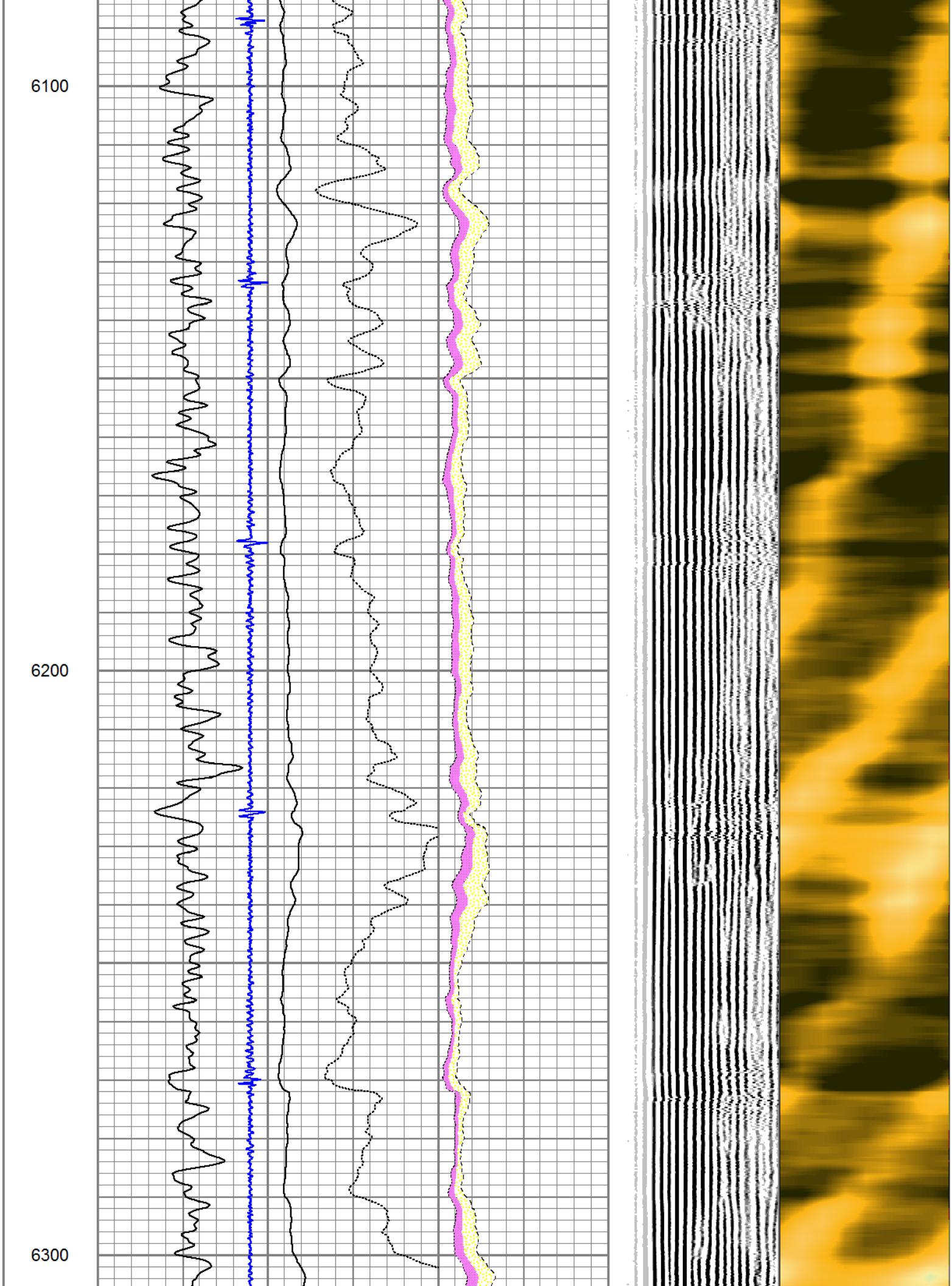
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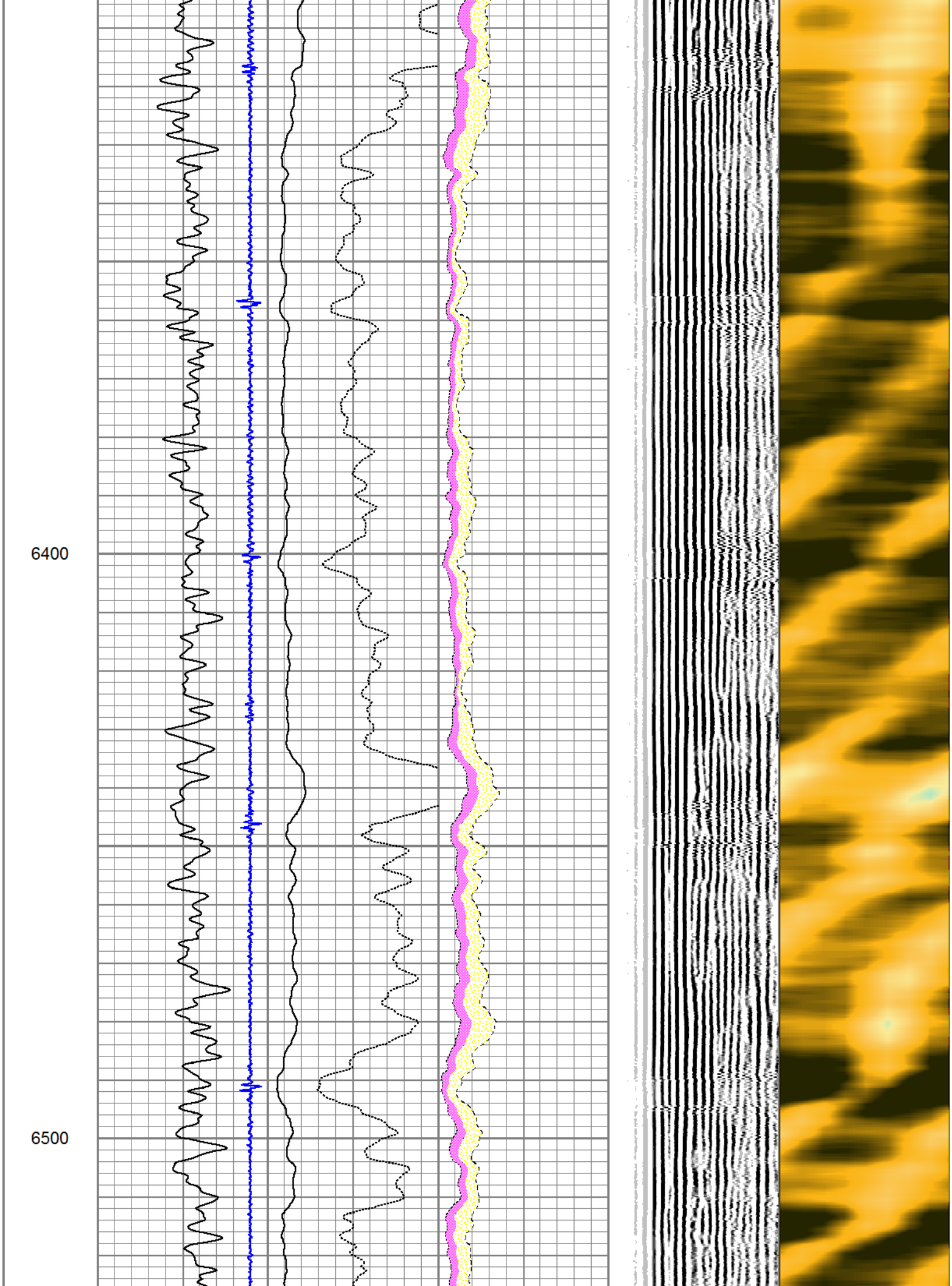
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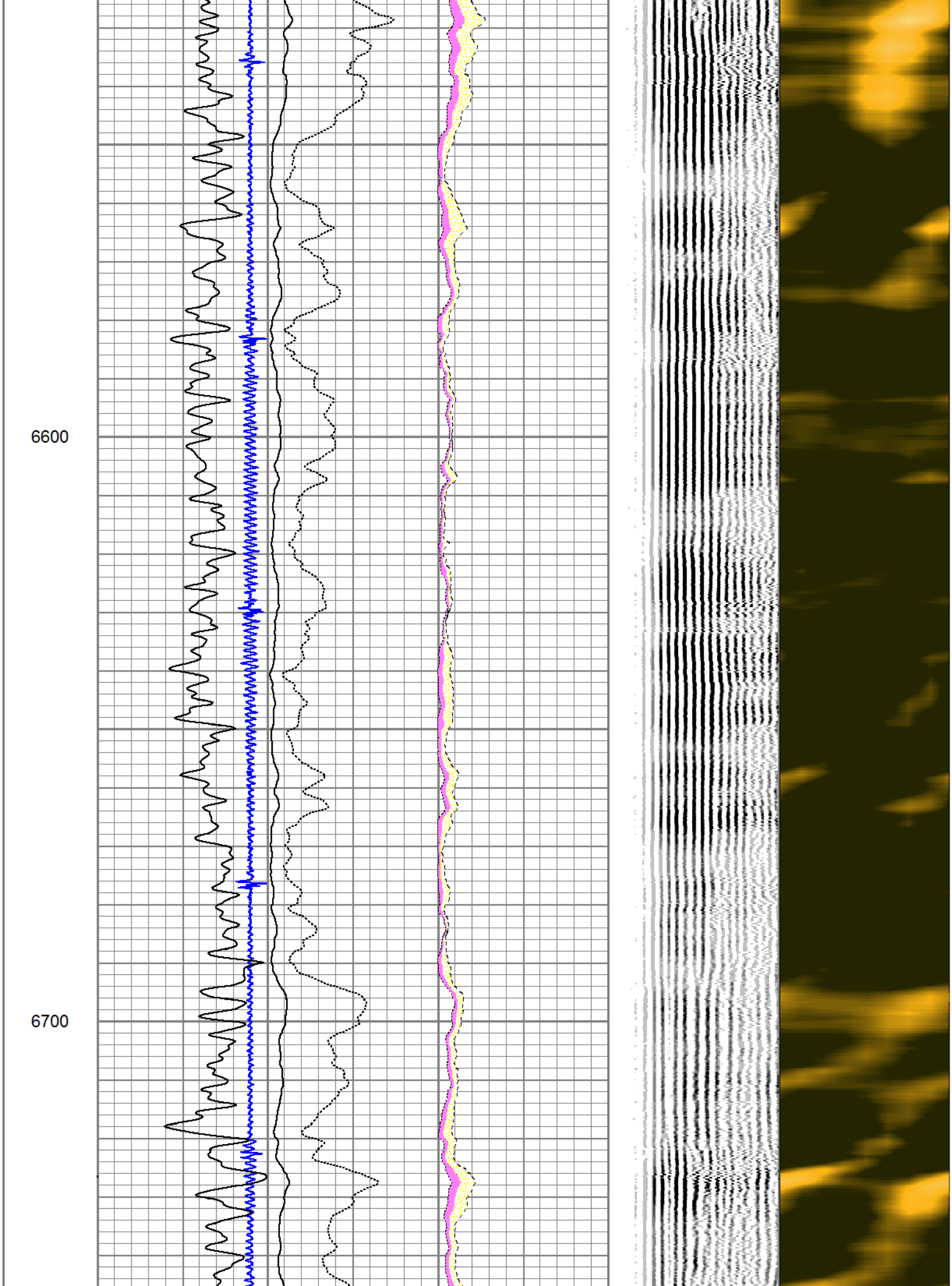
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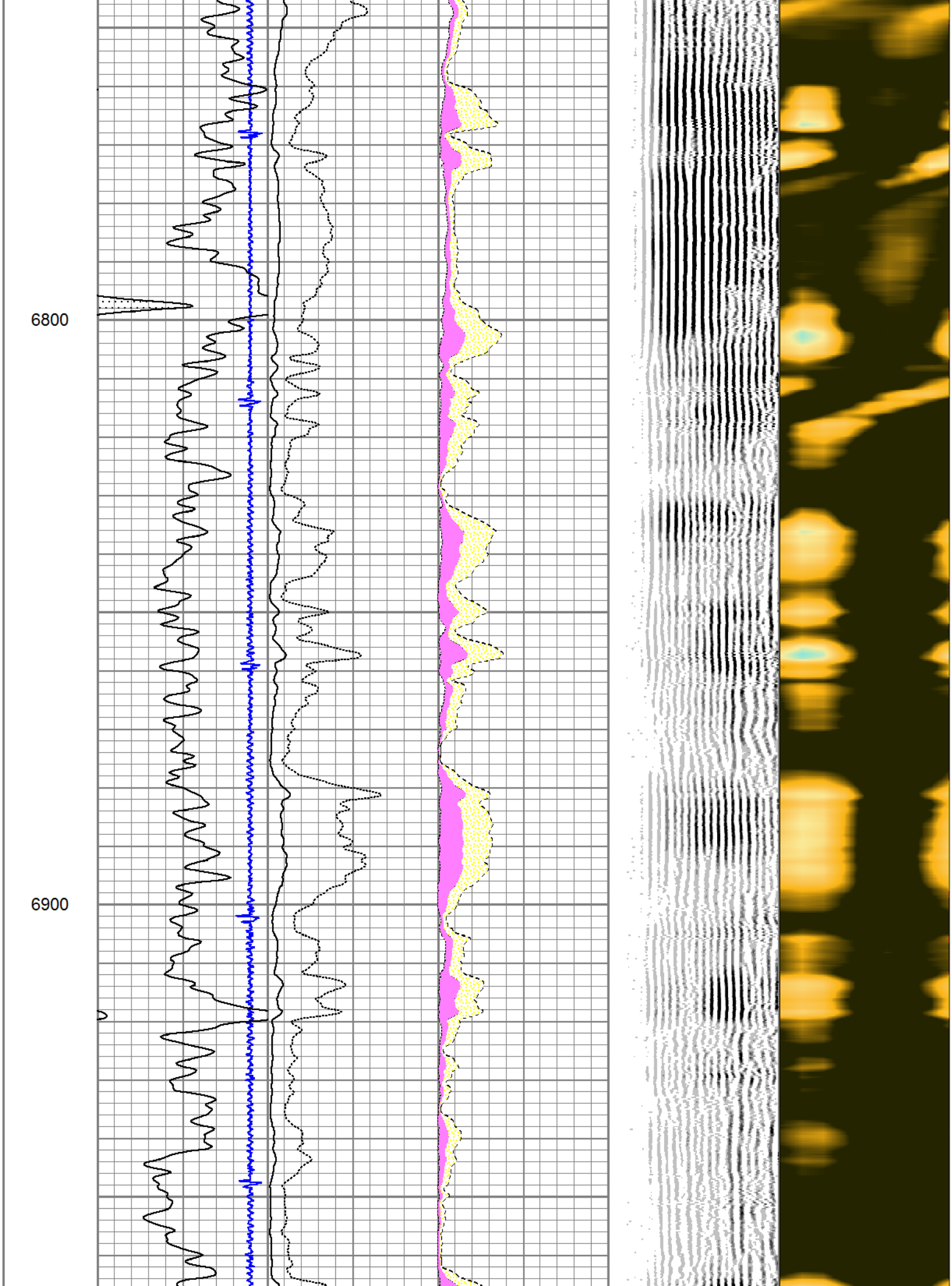
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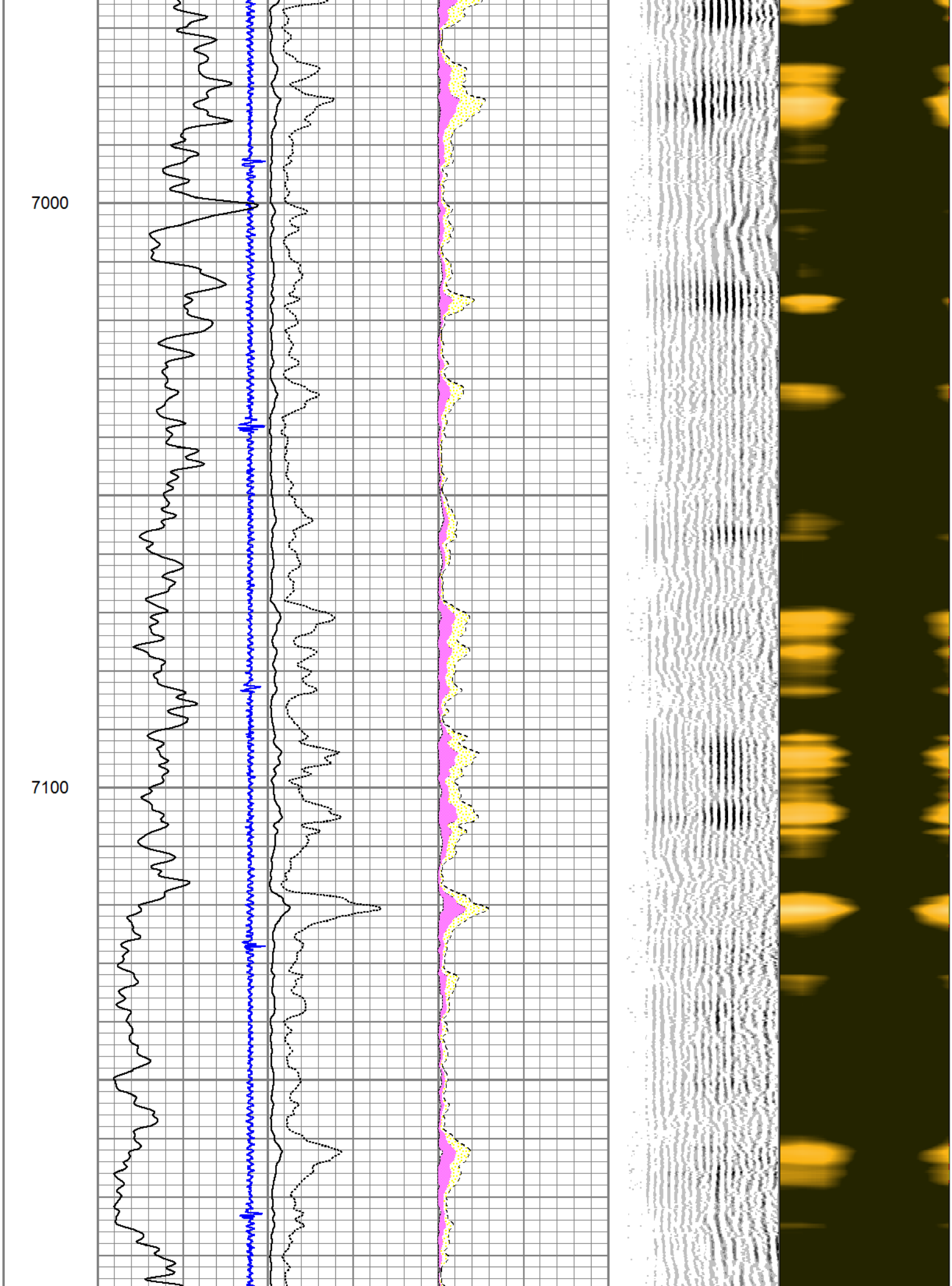
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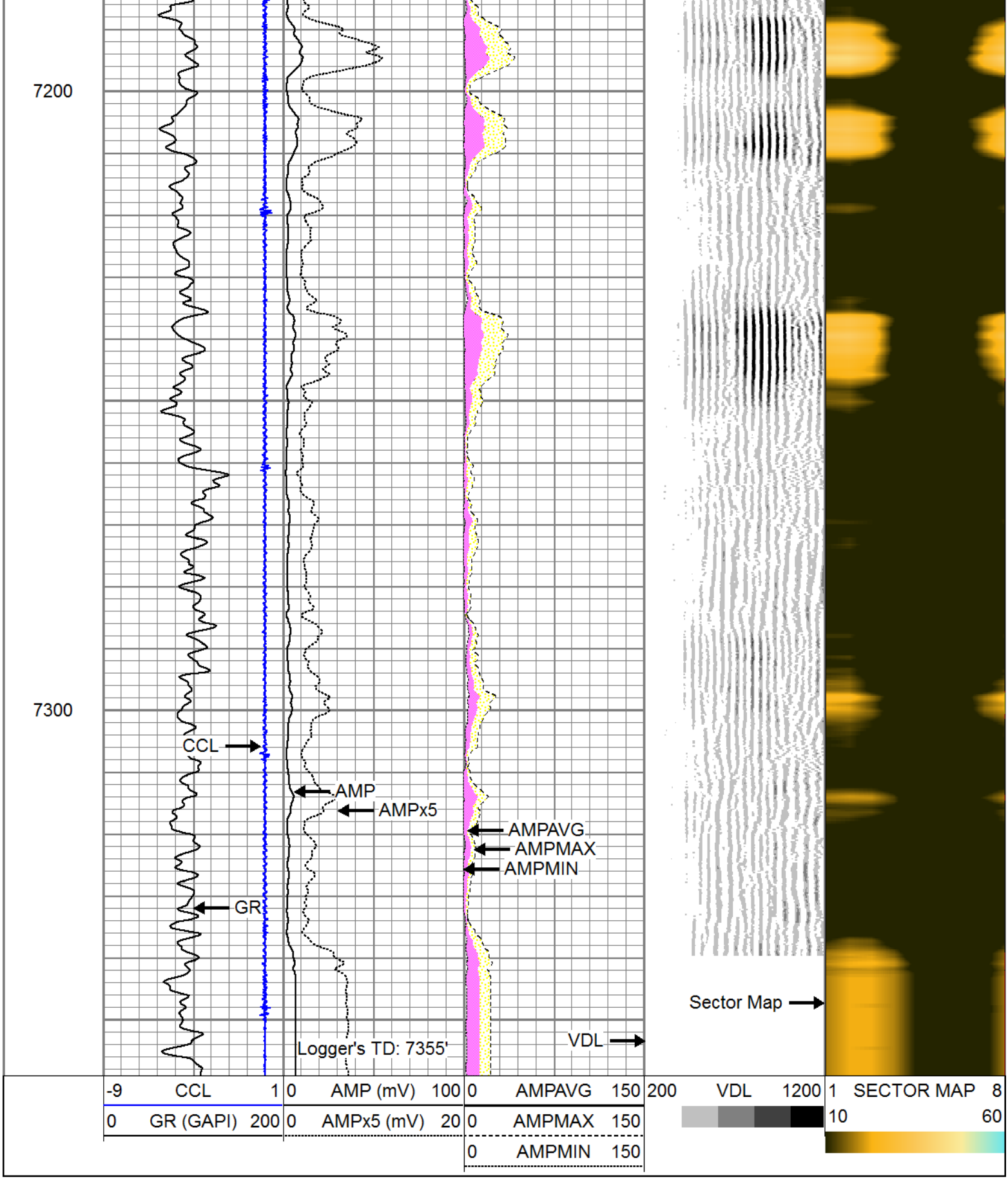

Calibration Report

Database File: 13624.db
Dataset Pathname: pass1
Dataset Creation: Mon Aug 11 13:54:40 2014 by Log 0

Gamma Ray Calibration Report

Serial Number:	111205	
Tool Model:	probe 2.75	
Performed:	Wed Jun 11 10:38:21 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:	130584	
Tool Model:	RBT-C3	
Calibration Casing Diameter:	7.000	in
Calibration Depth:	-103.203	ft

Master Calibration, performed Mon Aug 11 13:52:54 2014:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.012	0.985	1.500	62.000	62.189	0.725
CAL	0.012	1.003				
5'	0.012	0.953	1.500	62.000	64.306	0.703
SUM						
S1	0.010	1.002	0.000	100.000	100.821	-1.017
S2	0.012	1.004	0.000	100.000	100.810	-1.258
S3	0.012	0.999	0.000	100.000	101.365	-1.257
S4	0.012	1.001	0.000	100.000	101.152	-1.252
S5	0.012	0.996	0.000	100.000	101.659	-1.255
S6	0.012	0.997	0.000	100.000	101.552	-1.261
S7	0.012	0.997	0.000	100.000	101.594	-1.246
S8	0.012	1.005	0.000	100.000	100.761	-1.250

Internal Reference Calibration, performed Mon Aug 4 11:05:02 2014:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.012	1.003	1.000	0.000

Air Zero Calibration, performed Mon Aug 11 13:48:00 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

Temperature Calibration Report

Serial Number:	130584			
Tool Model:	RBT-C3			
Performed:	Mon Aug 11 13:53:37 2014			
	Reference		Reading	
Low Reference:	0.00	degF	0.00	degF
High Reference:	1.00	degF	1.00	degF
Gain:	0.70			
Offset:	5.00			
Delta Spacing	1			

PIONEER

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Company	EnCana Oil & Gas (USA) Inc.
Well	Boyd 3B-19H-M368
Field	Wattenberg
County	Weld
State	Colorado