PIONEER

Pioneer Energy Services

RADIAL SECTOR BOND LOG WITH GAMMA RAY

Company KERR-MCGEE OIL & GAS ONSHORE
Well VOGL STATE 16C-36HZ
Field WATTENBERG
County WELD
State COLORADO

Company **KERR-MCGEE OIL & GAS ONSHORE**
Well **VOGL STATE 16C-36HZ**
Field **WATTENBERG**
County **WELD** State **COLORADO**

Location: API # : 05123396880000
SHL: 556' FSL & 713' FWL SWSW
LAT: 40.176683
LONG: -104.958119
SEC 36 TWP 3N RGE 68W

Other Services
JBGR
CALIPER

Permanent Datum	GL	Elevation	4818
Log Measured From	KB		
Drilling Measured From	KB.....16'		

Elevation	
K.B.	4834
D.F.	4834
G.L.	4818

Date of Service	SEPTEMBER 26, 2014		
Run Number	ONE		
Depth Driller or PBTD	12492		
Depth Logger	6920		
Bottom Log Interval	6919		
Top Log Interval	SURFACE		
Open Hole Size	8-3/4"		
Type Fluid	WATER		
Fluid Level	SURFACE		
Fluid Density	8.33 PPG		
Max. Recorded Temperature	SEE CALIPER LOG		
Max. Wellhead Pressure	2800 PSI		
Wellhead Connection	7-1/16" 10K FLANGE		
Estimated Cement Top	1108		
Unit Number	P-75		
Wireline Size	9/32"		
Location	FORT MORGAN		
Recorded By	SCHUMAN		
Witnessed By	MR. JEFF HAMMOND		

	Size	Wt/Ft	Top	Bottom
Tubing Record				
Surface Casing	9+5/8"	36#	SURFACE	1146
Production Casing	7"	26#	SURFACE	7824
Liner Record	4+1/2"	11.6#	6847	12477

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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.
LOG CORRELATED TO LINER TOP
SO#2-280046

THANK YOU FOR USING PIONEER Energy SERVICES

Your Pioneer Energy Services Crew
Engineer: SHAUN
Operator: AJ
Operator: ANGELO
Operator: BOBBY

Tool Data - Services	Serial Number
SECTOR CBL	111205
GR	130608

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	11.63					
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 (11205) Probe Gamma CCL	4.54	2.75	100.00
GR	0.90					

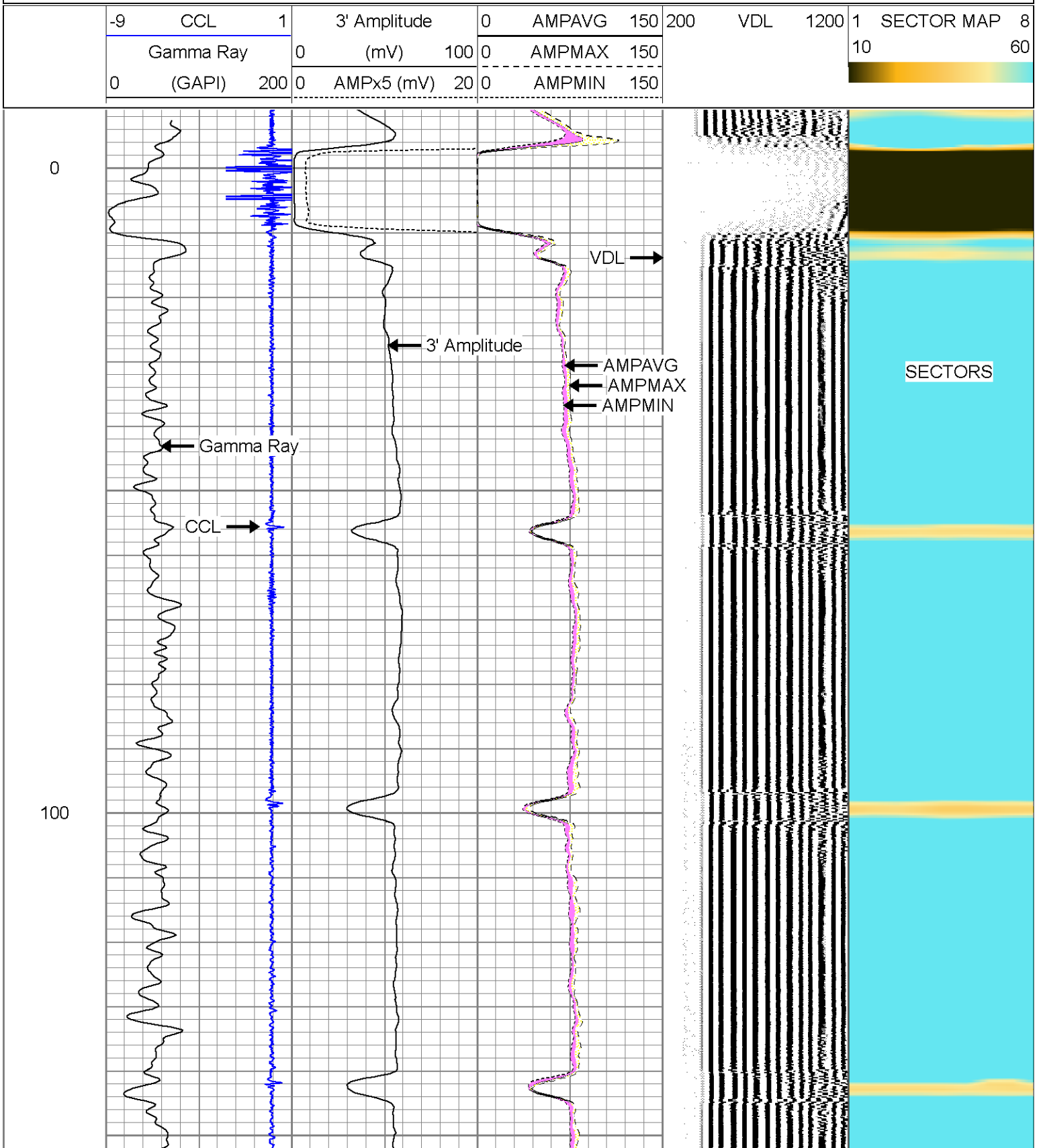
Dataset:	vogl state 16c-36hz_rbl.db: field/well/RBL/pass1
Total Length:	19.13 ft
Total Weight:	200.00 lb
O.D.	2.75 in

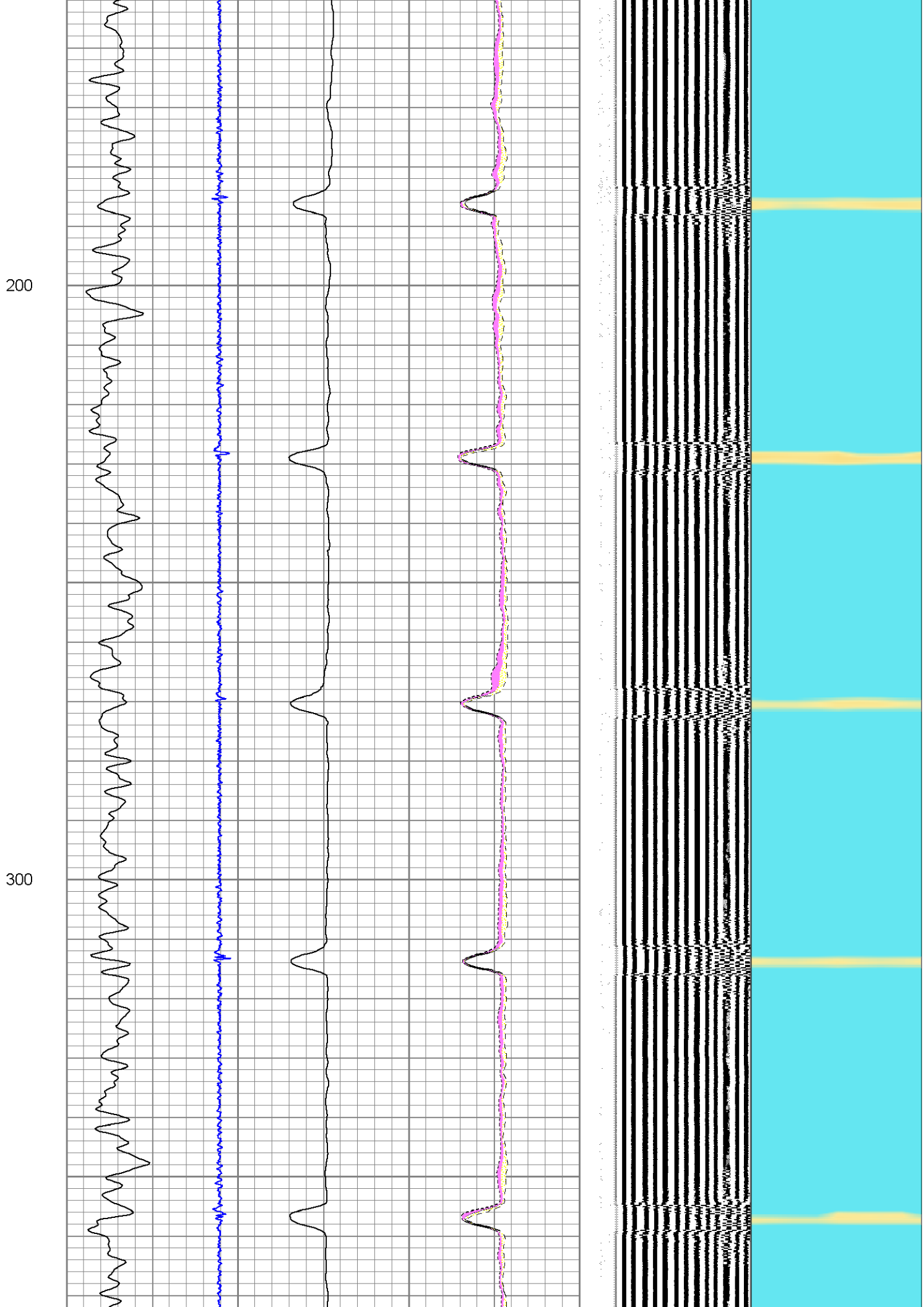
MAIN PASS

LOGGED WITH 2800 PSI APPLIED AT WELLHEAD

PIONEER
Pioneer Energy Services

Database File:	vogl state 16c-36hz_rbl.db
Dataset Pathname:	RBL/pass1
Presentation Format:	scbl02
Dataset Creation:	Fri Sep 26 16:13:20 2014 by Log 7.0 B1
Charted by:	Depth in Feet scaled 1:240

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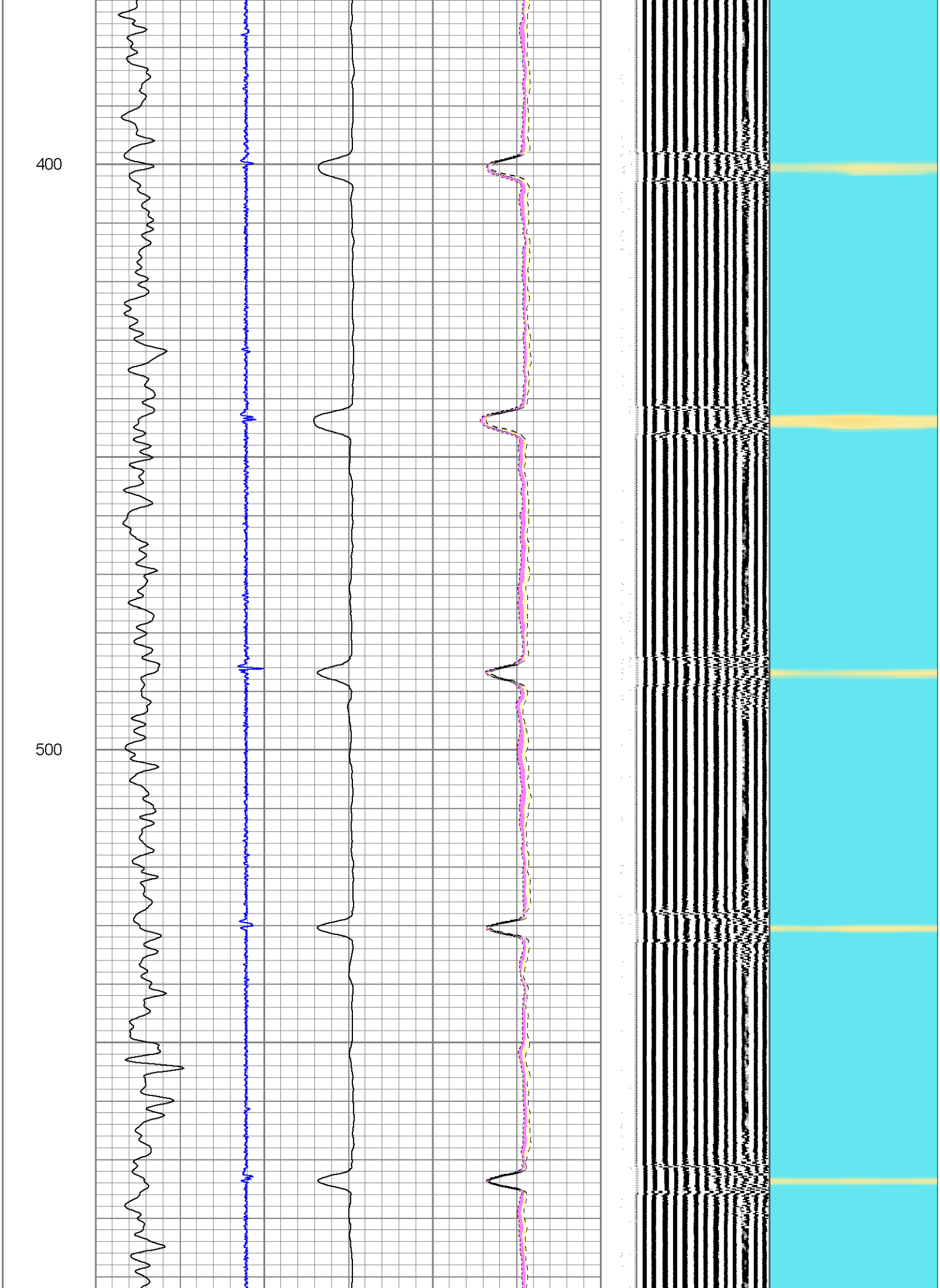
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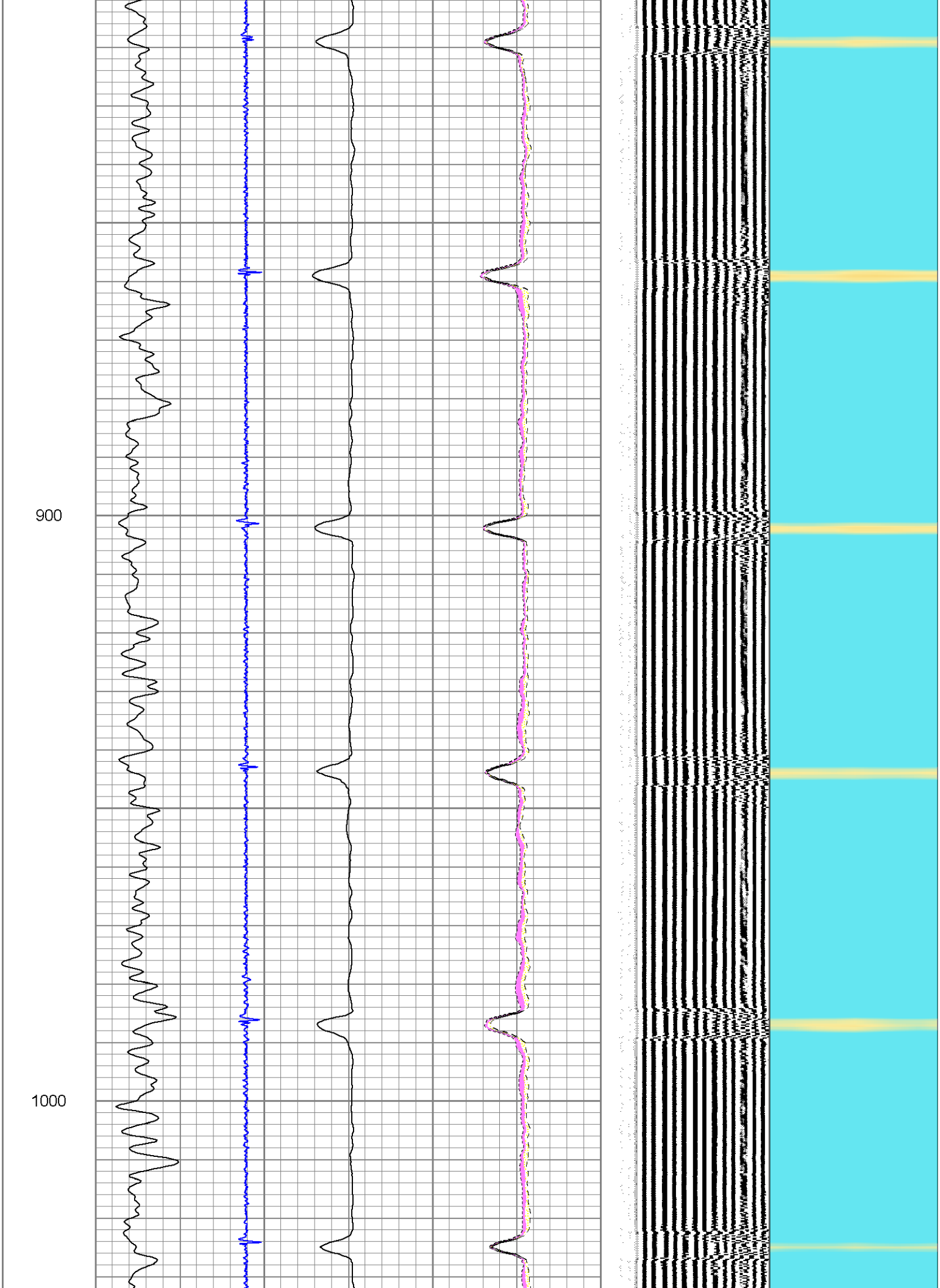
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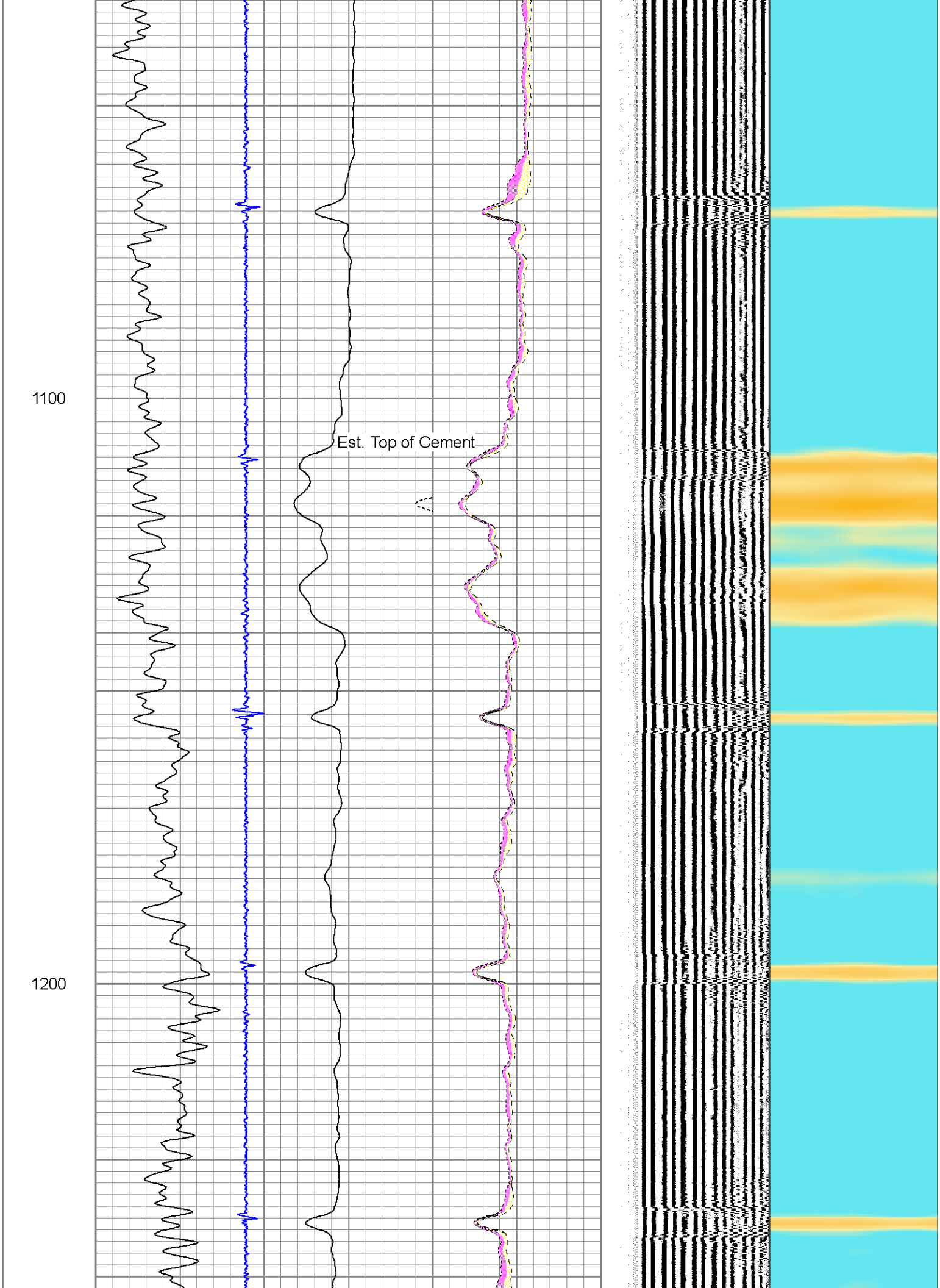
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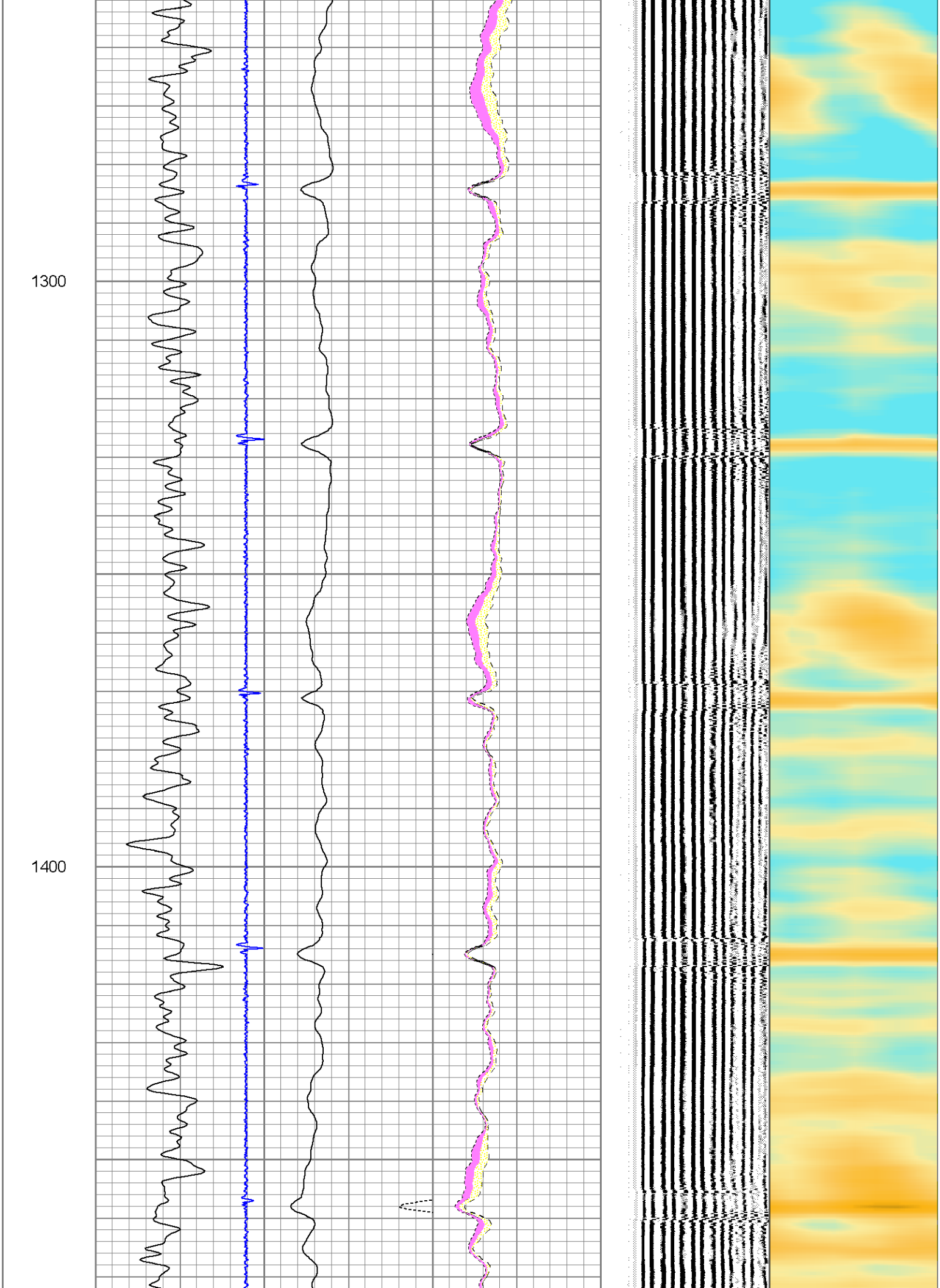
Est. Top of Cement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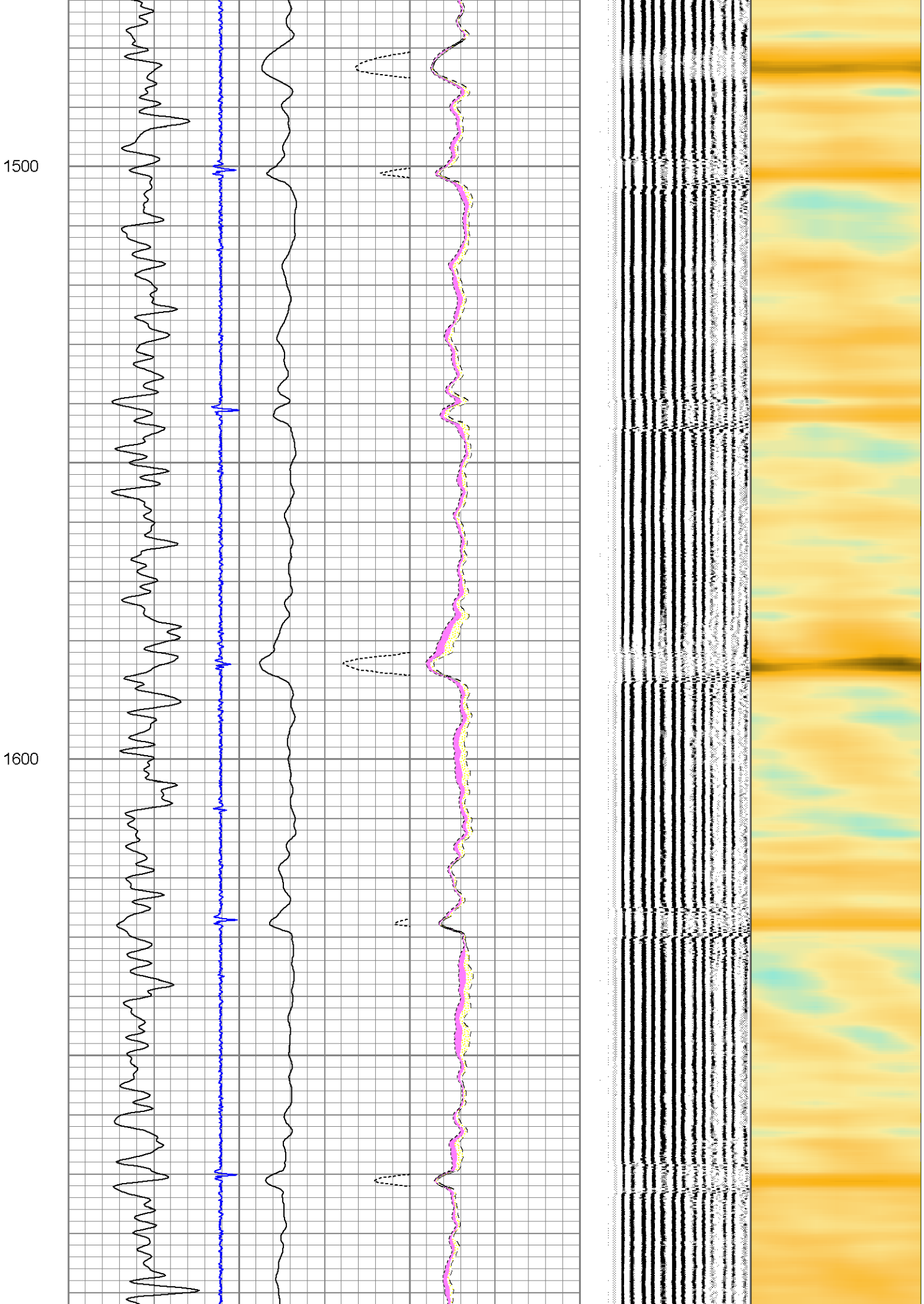
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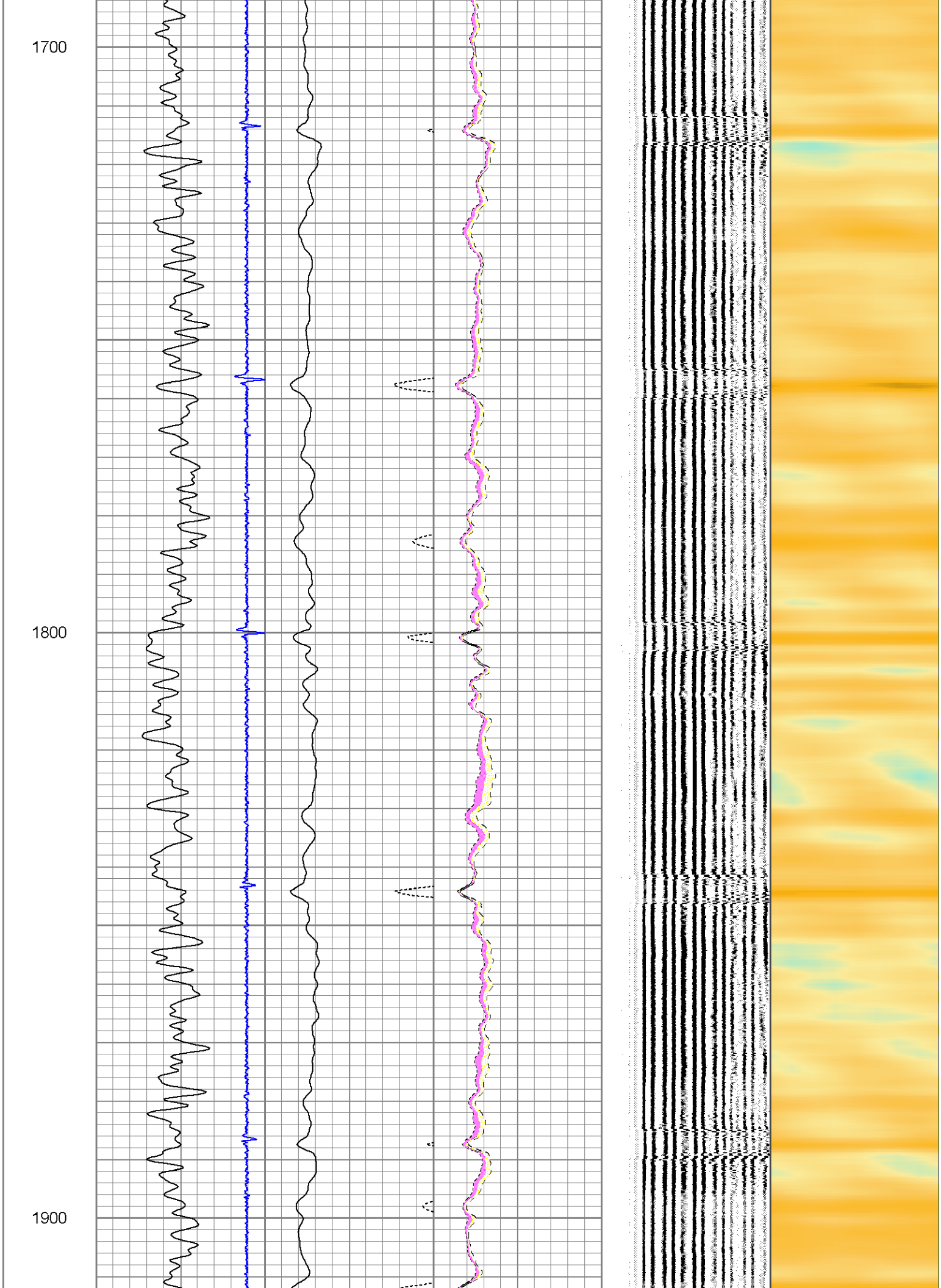
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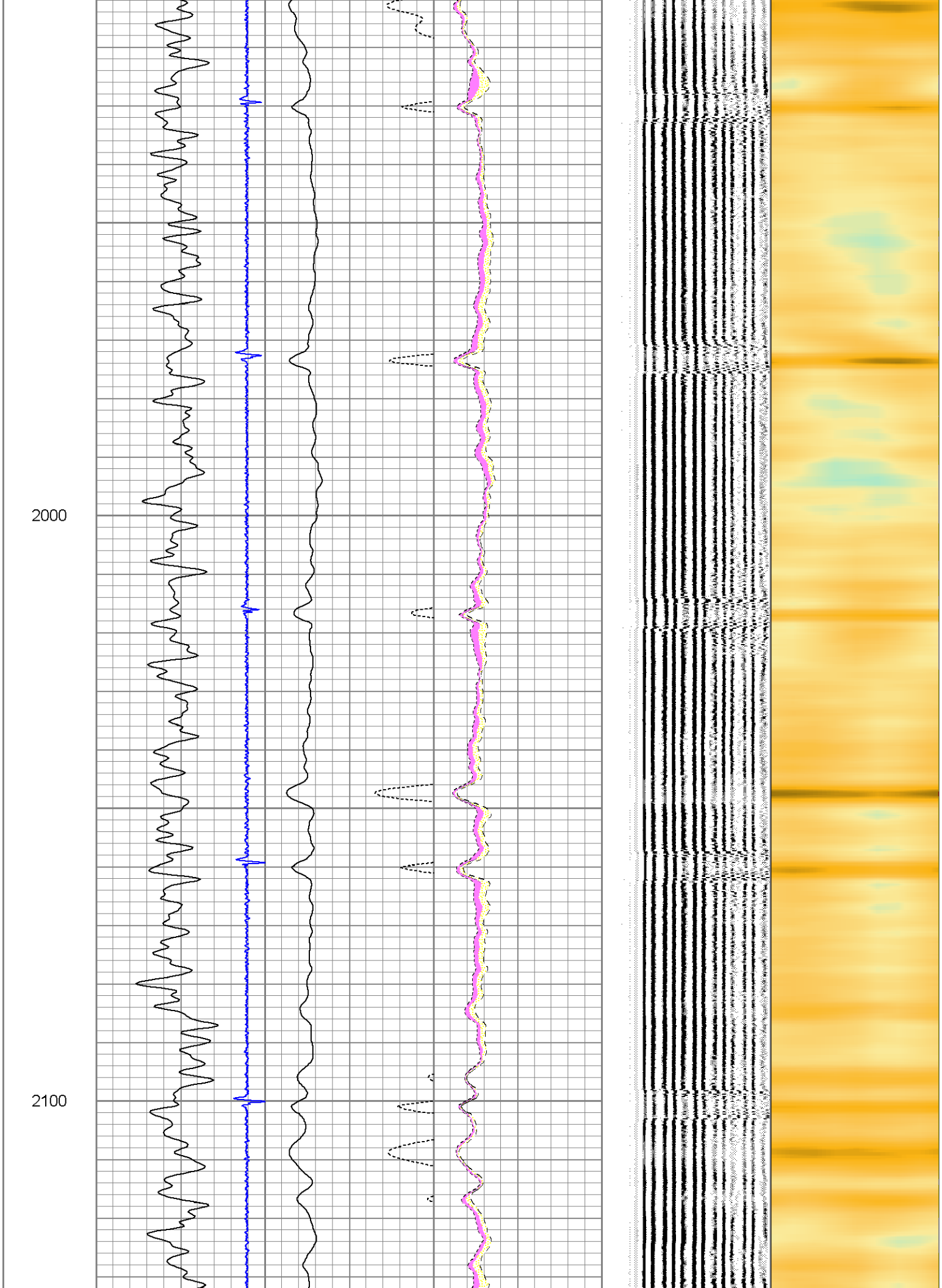
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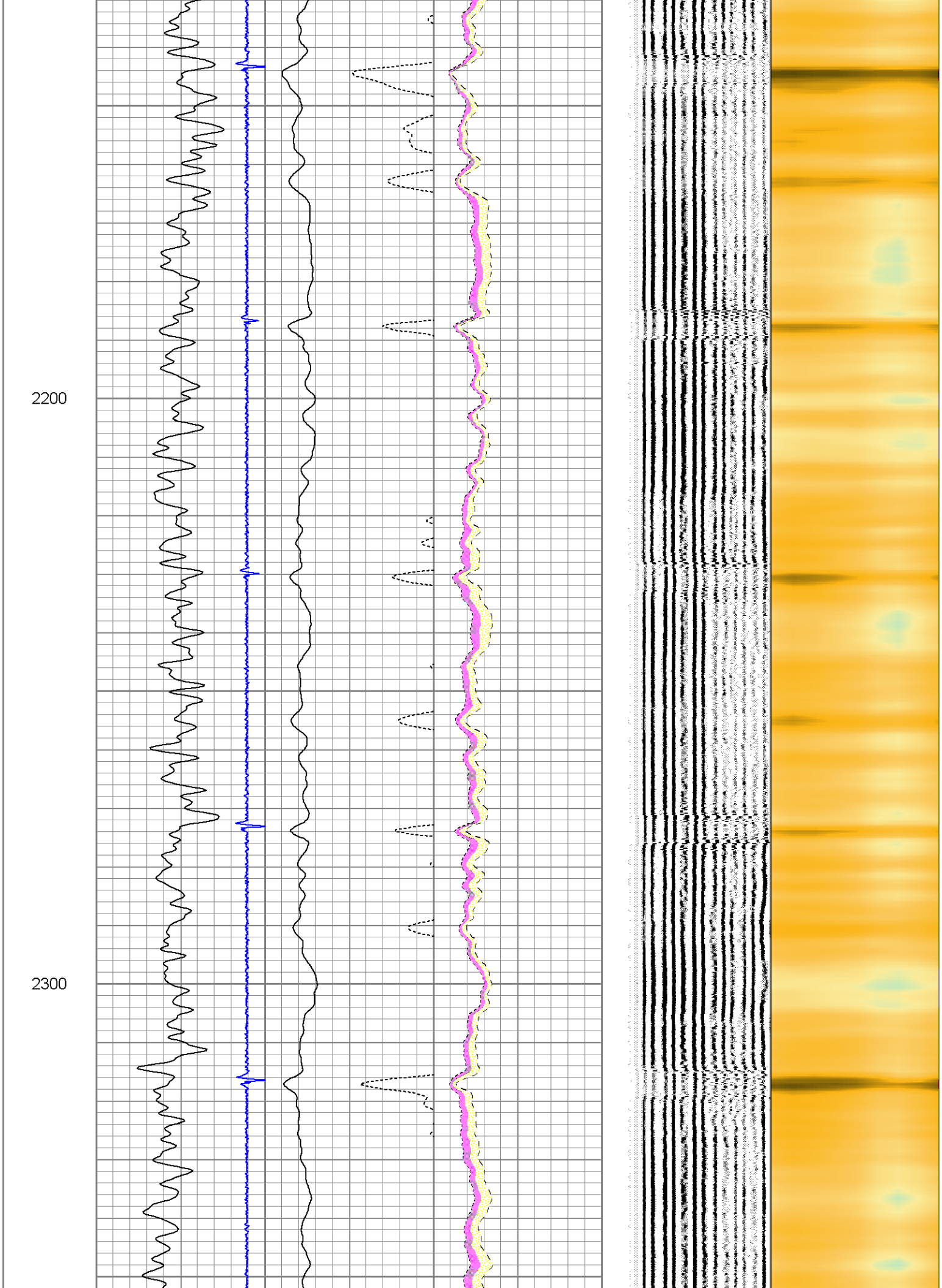
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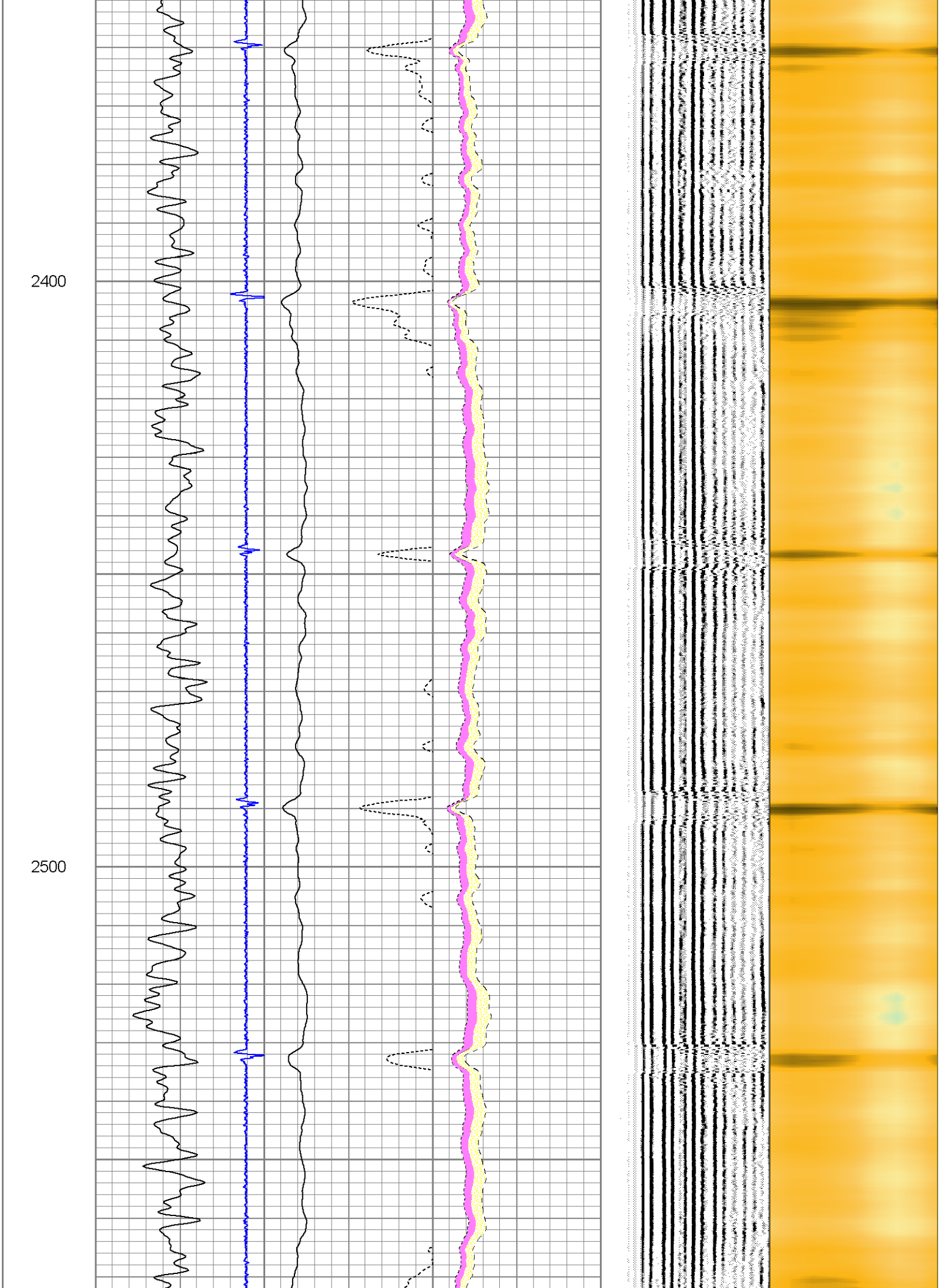
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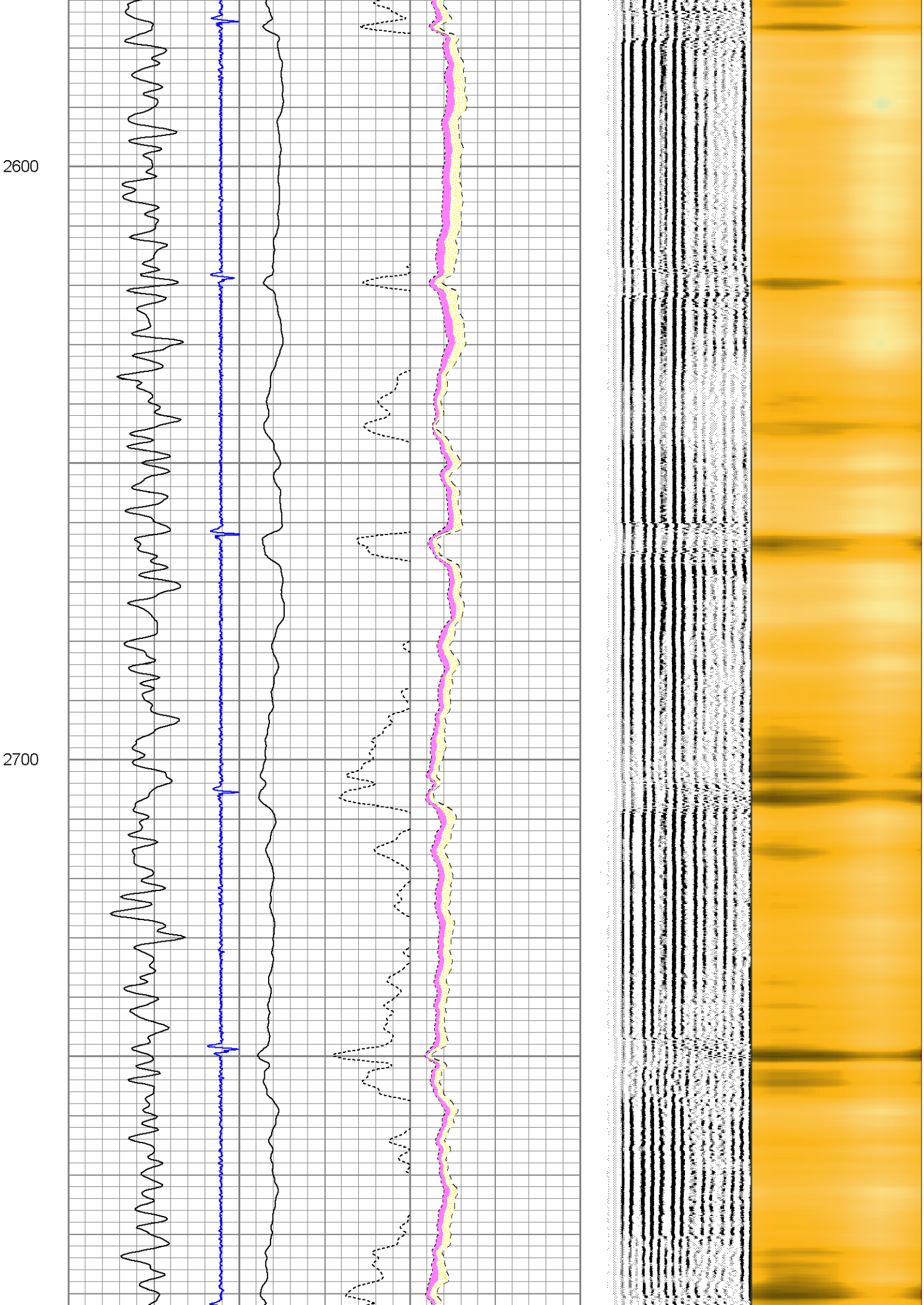
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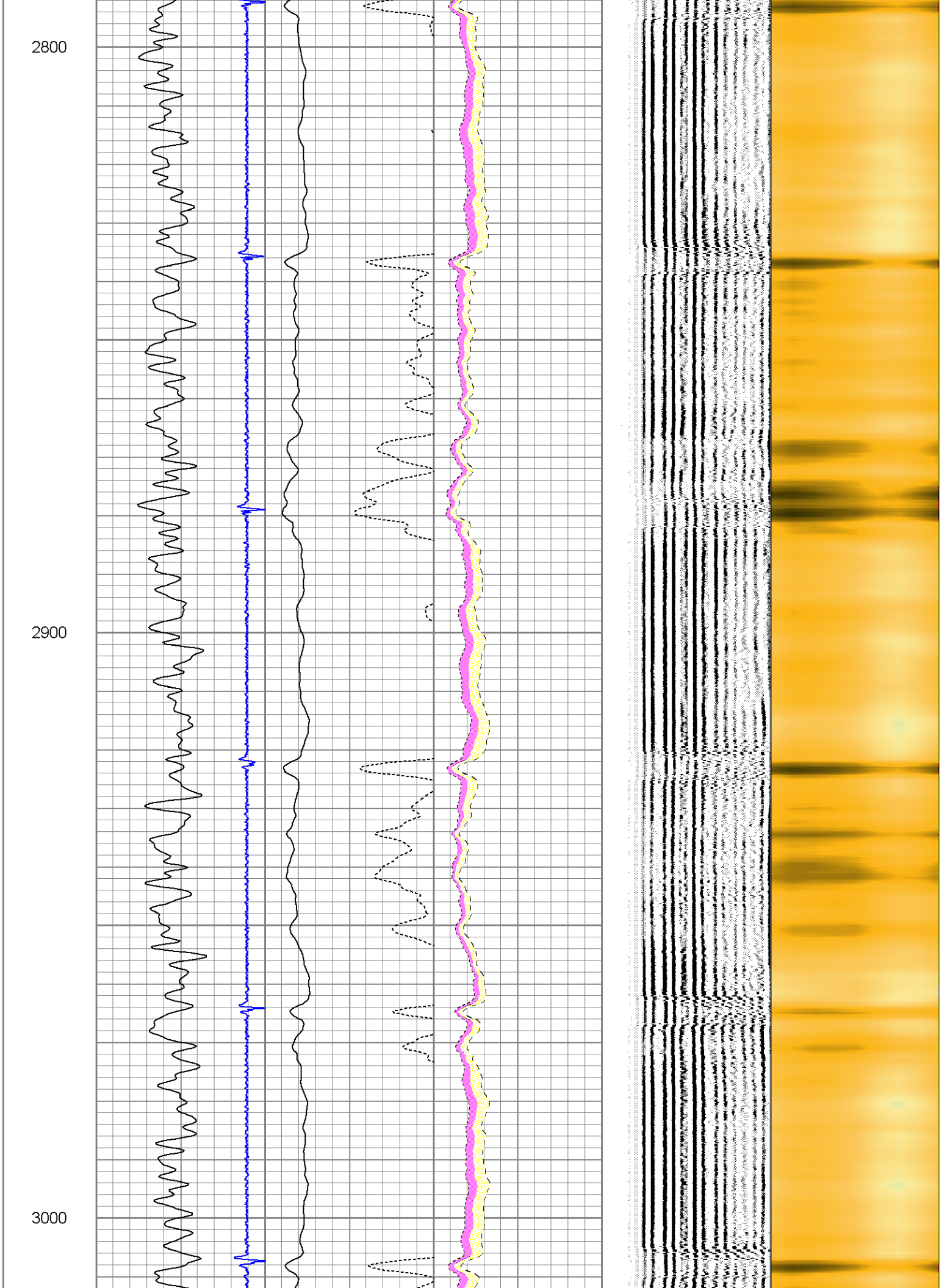
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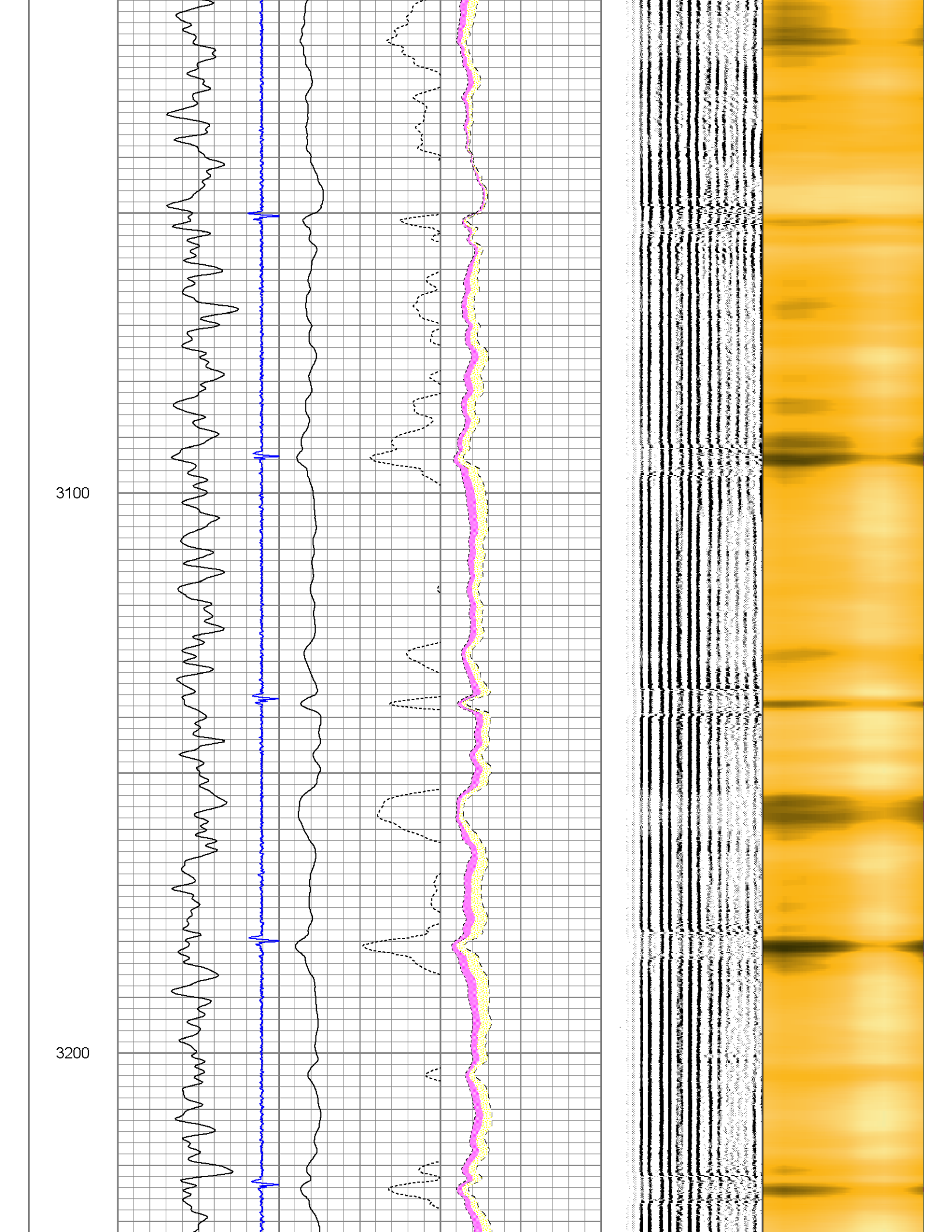
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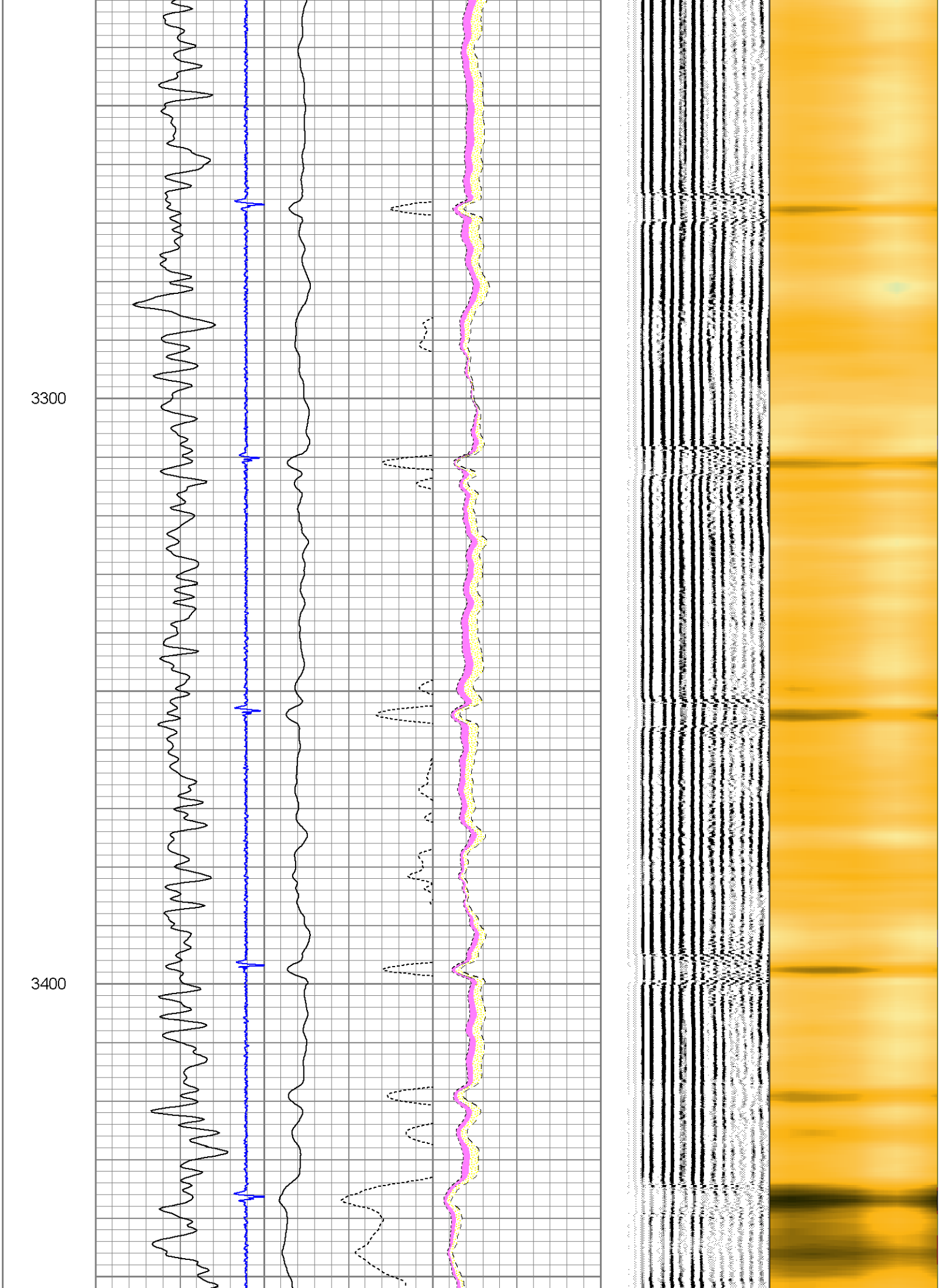
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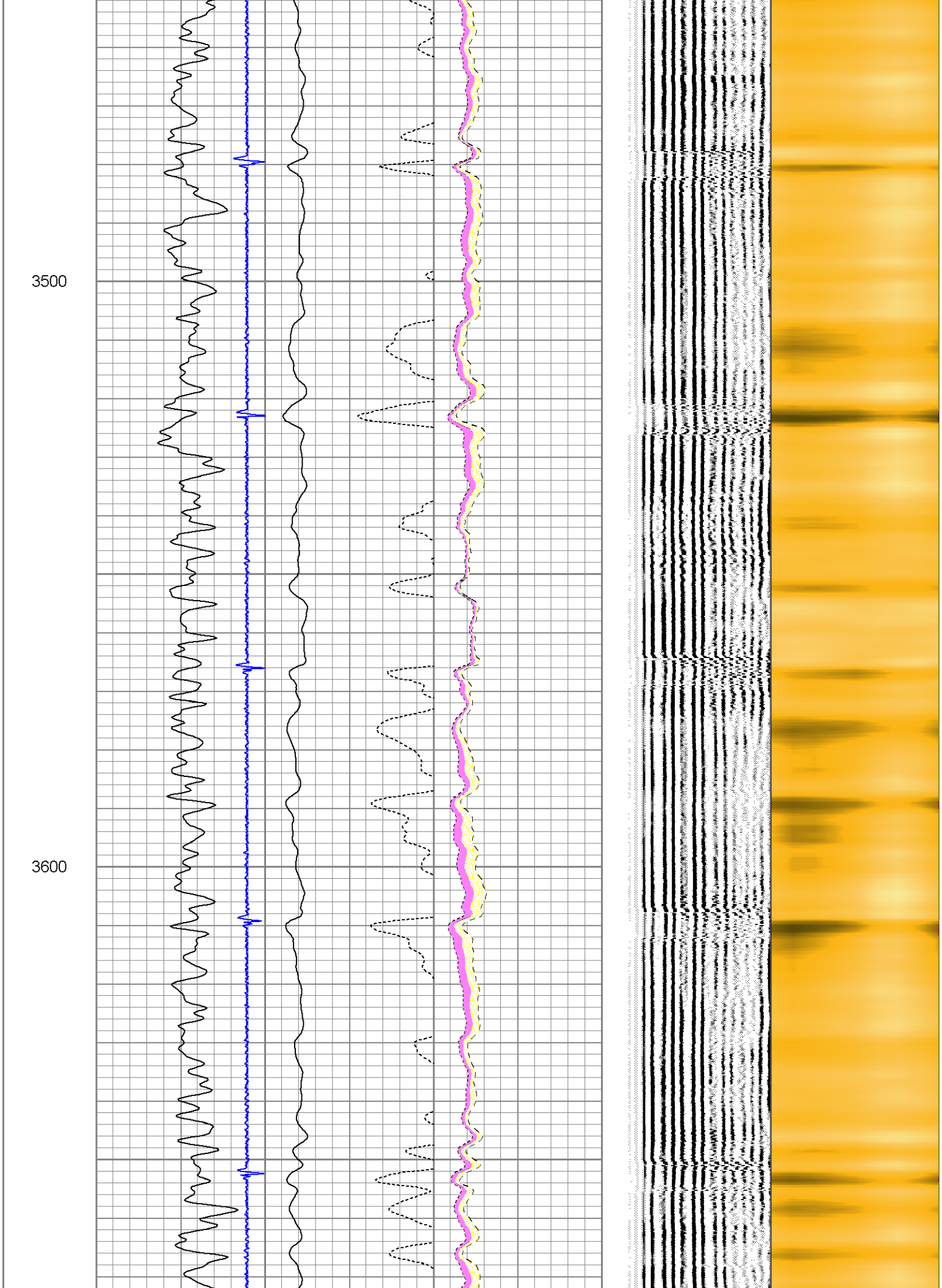
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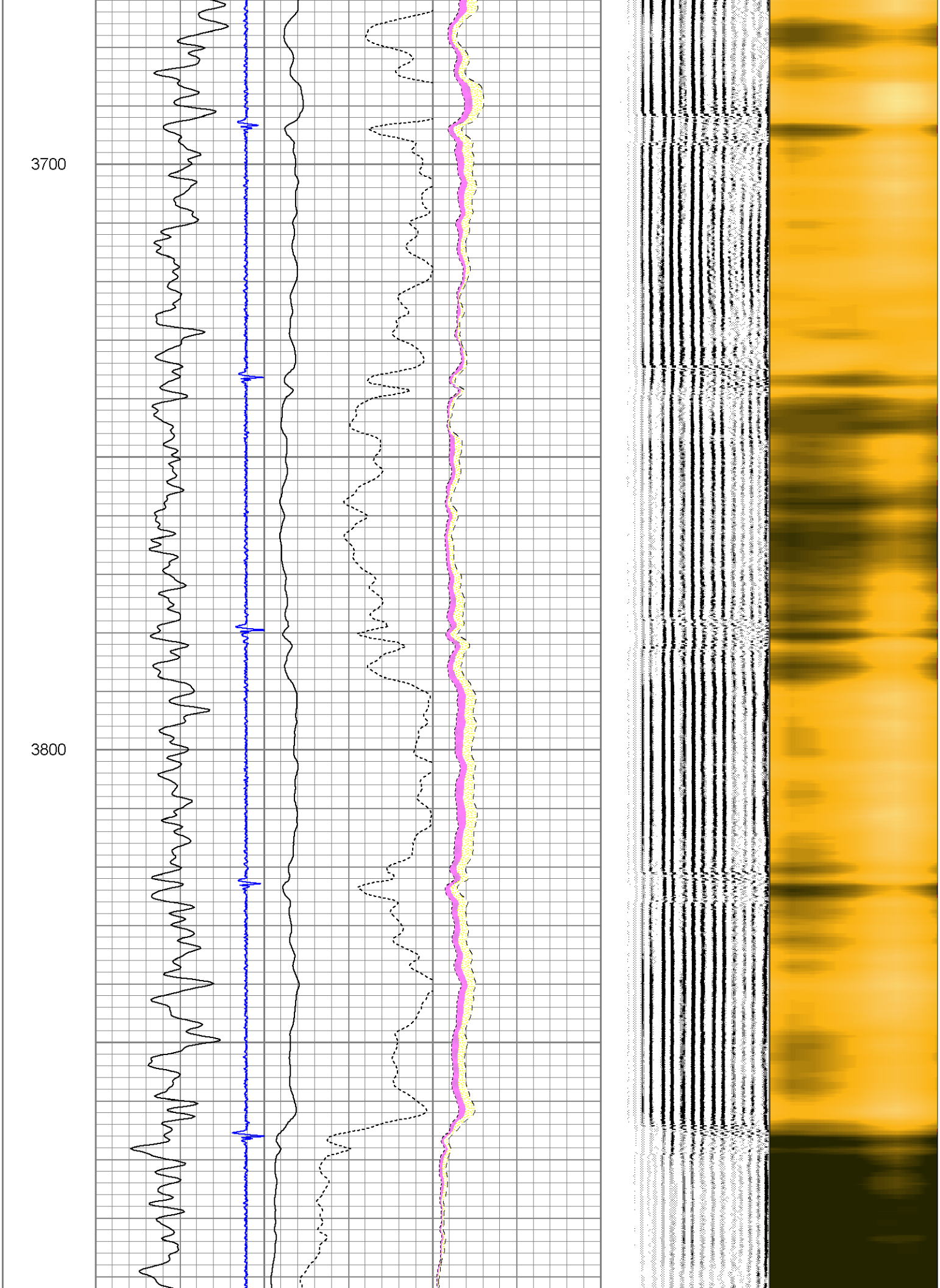
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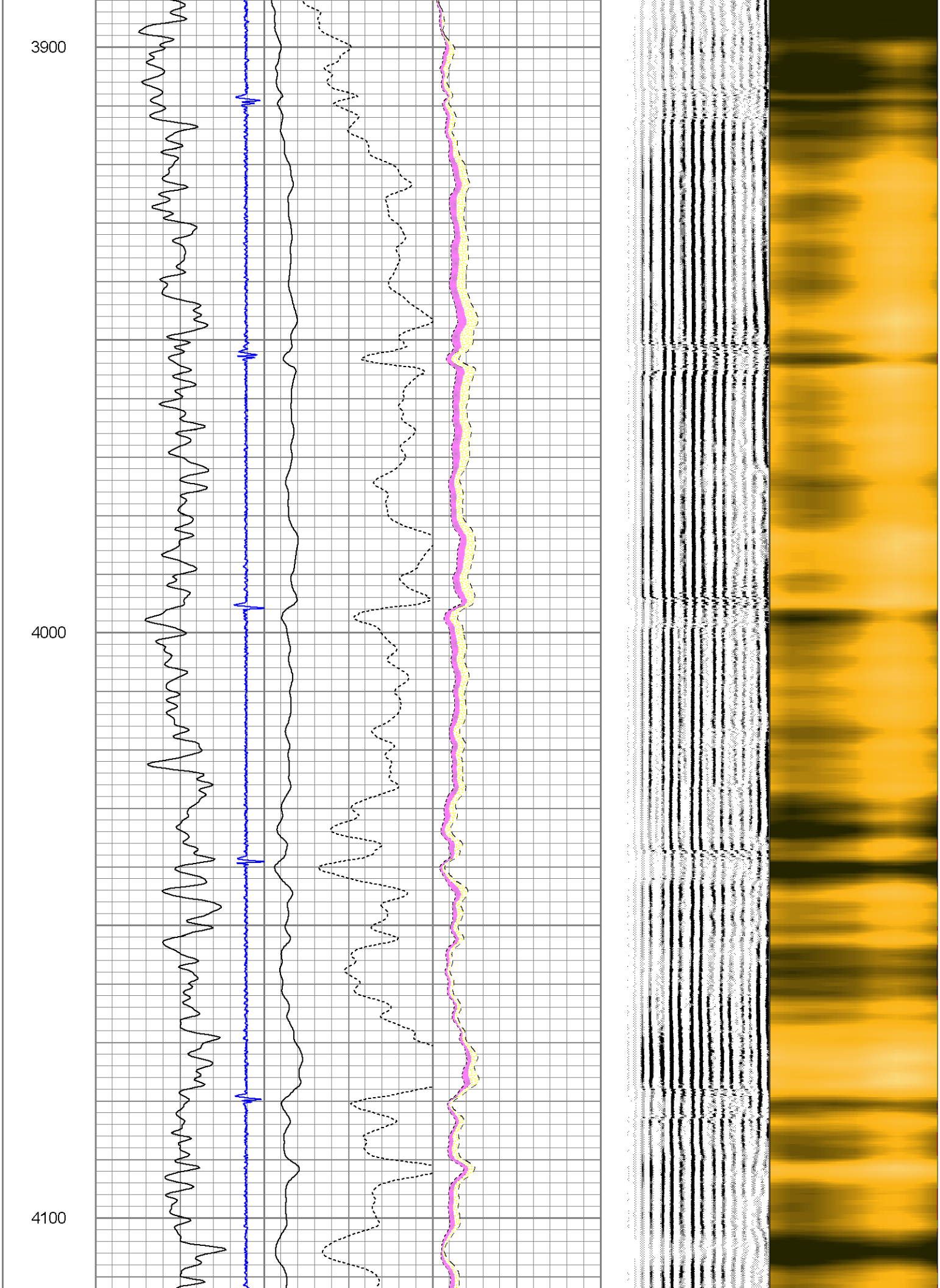
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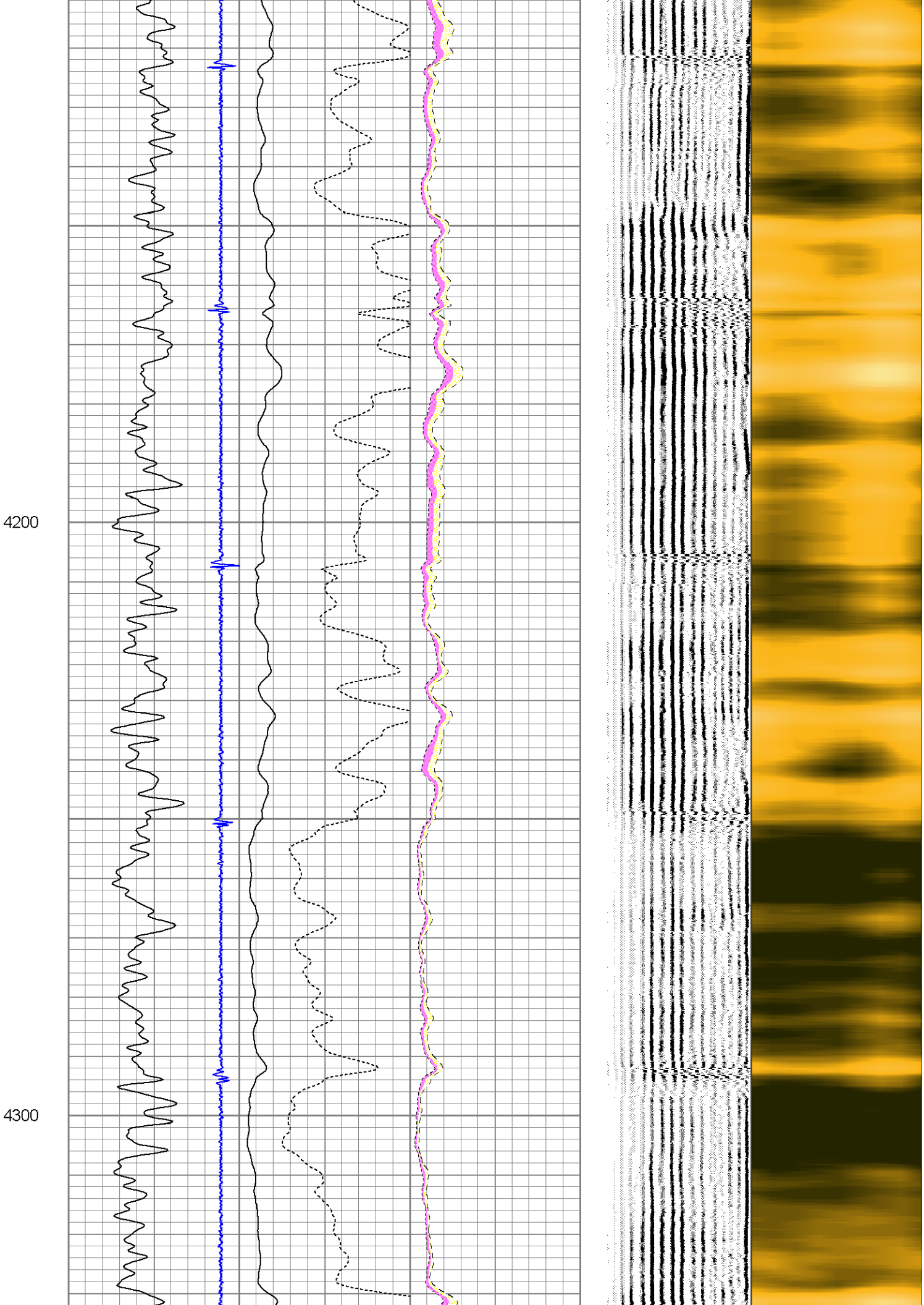
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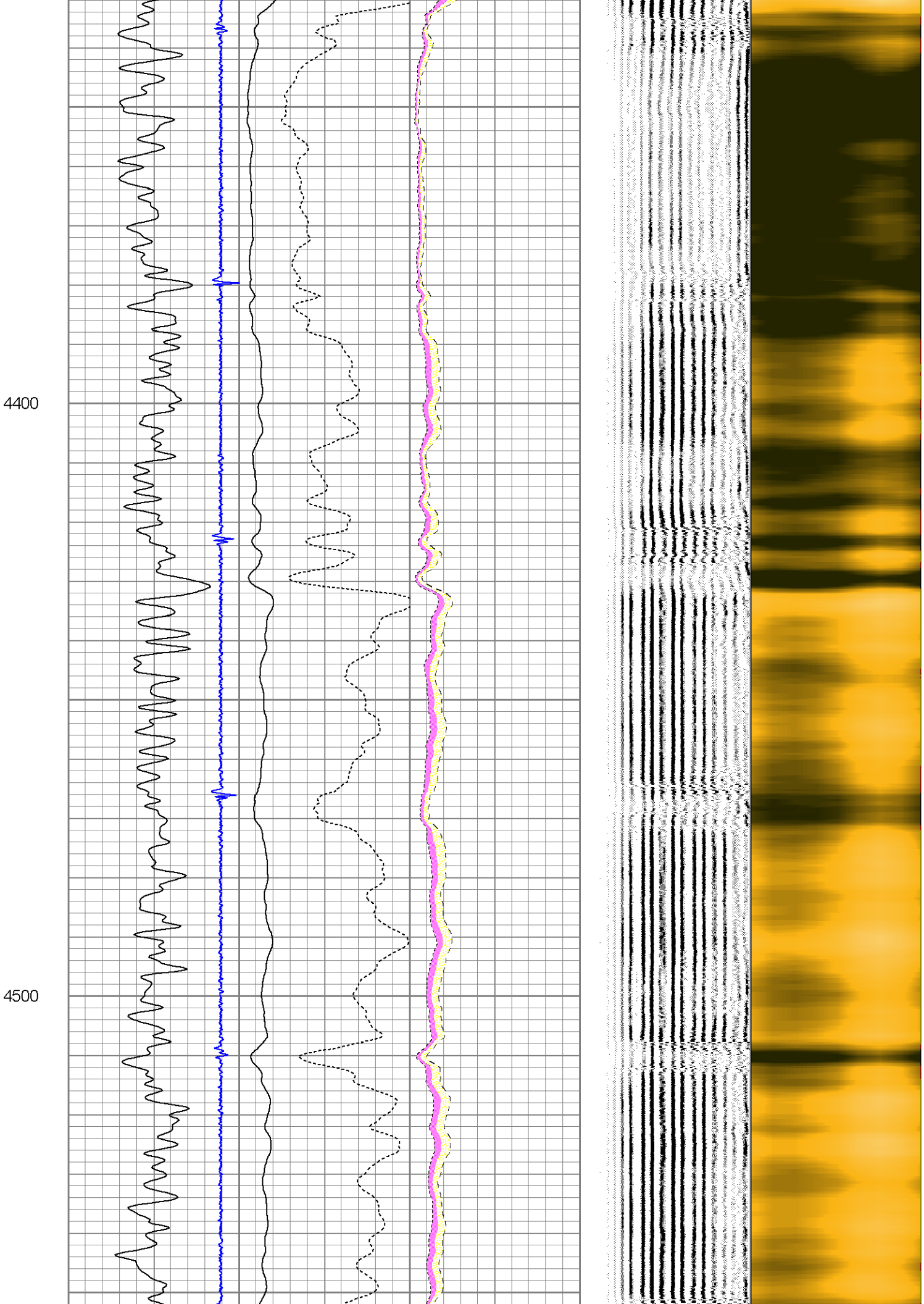
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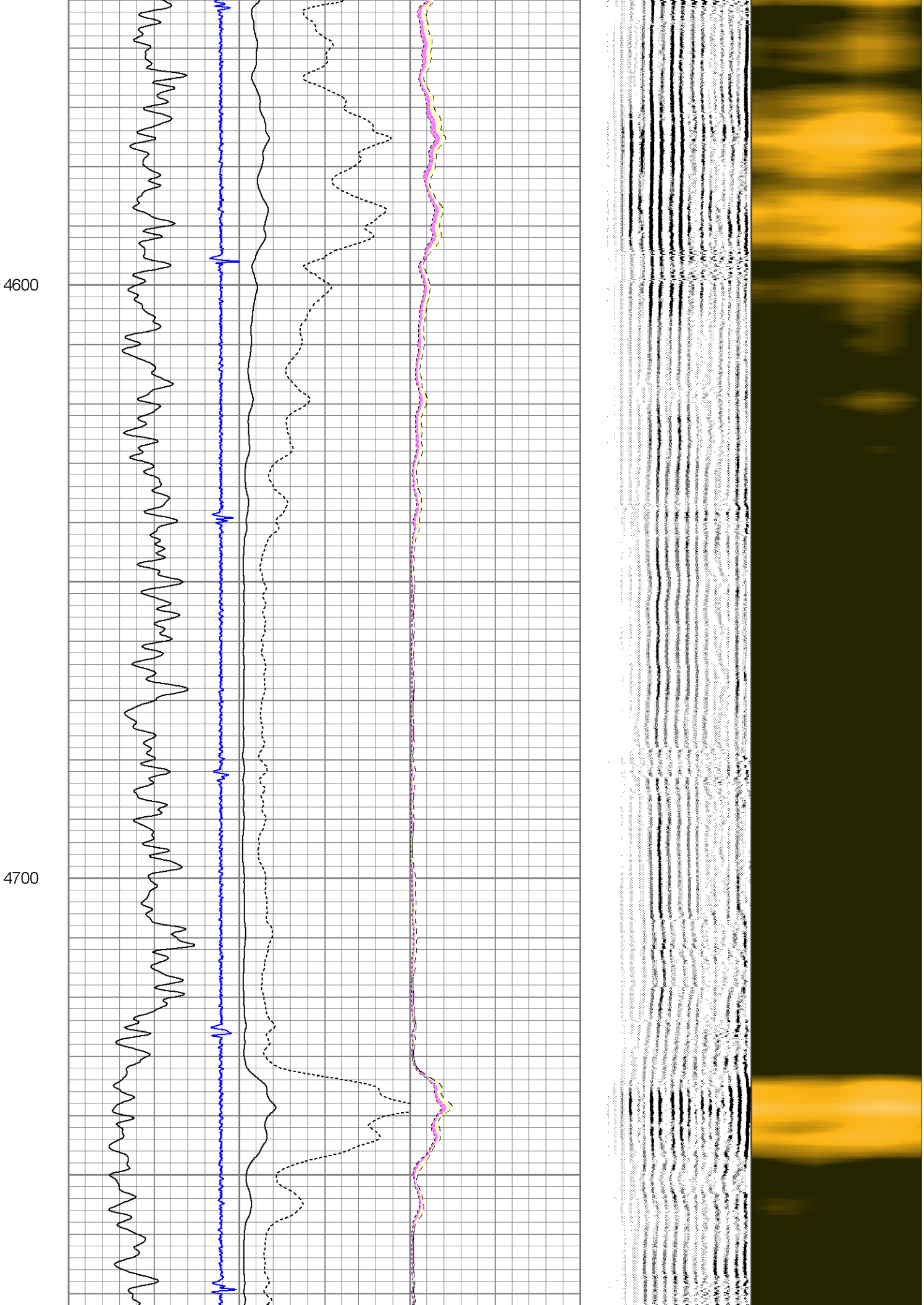
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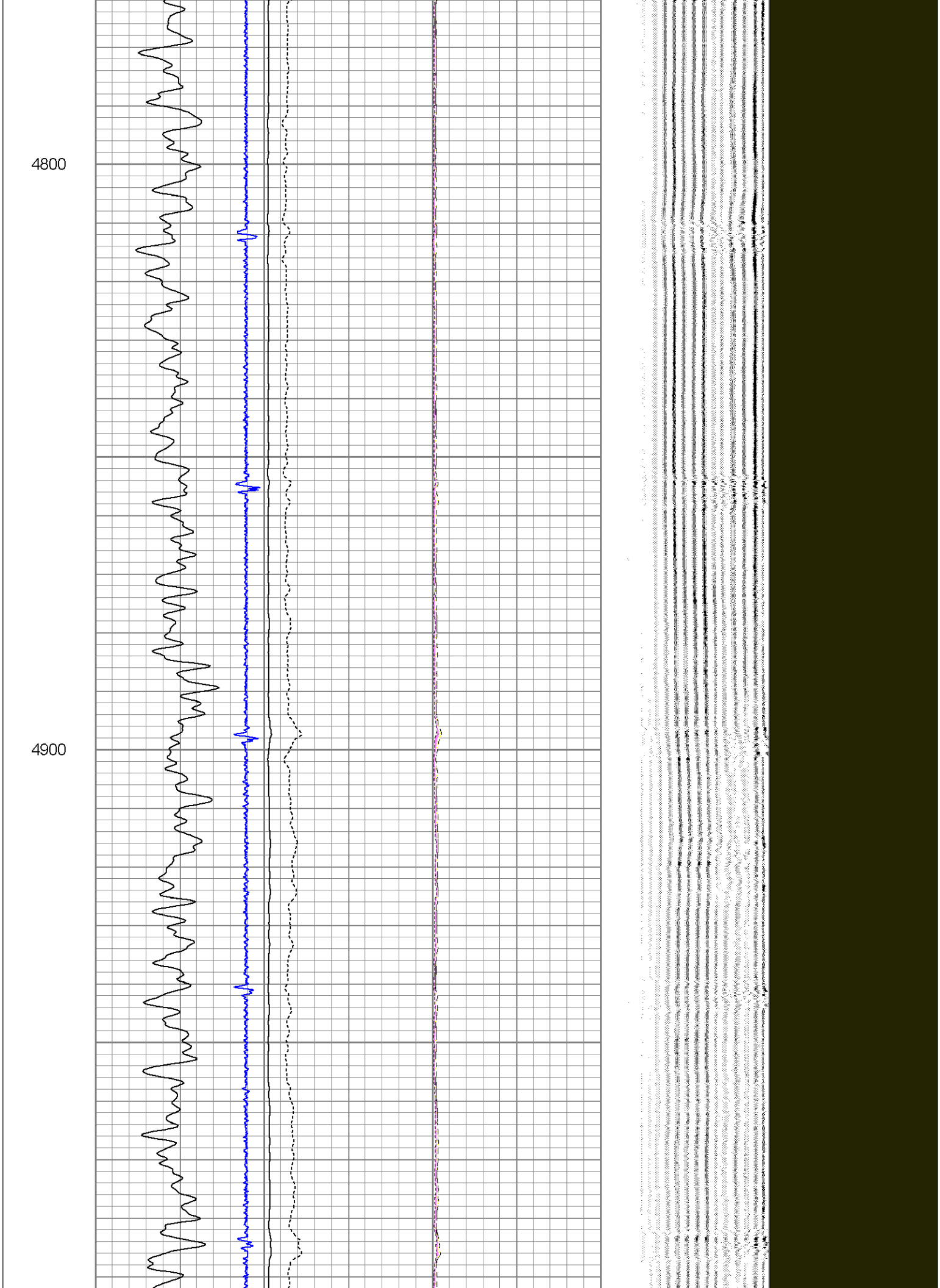
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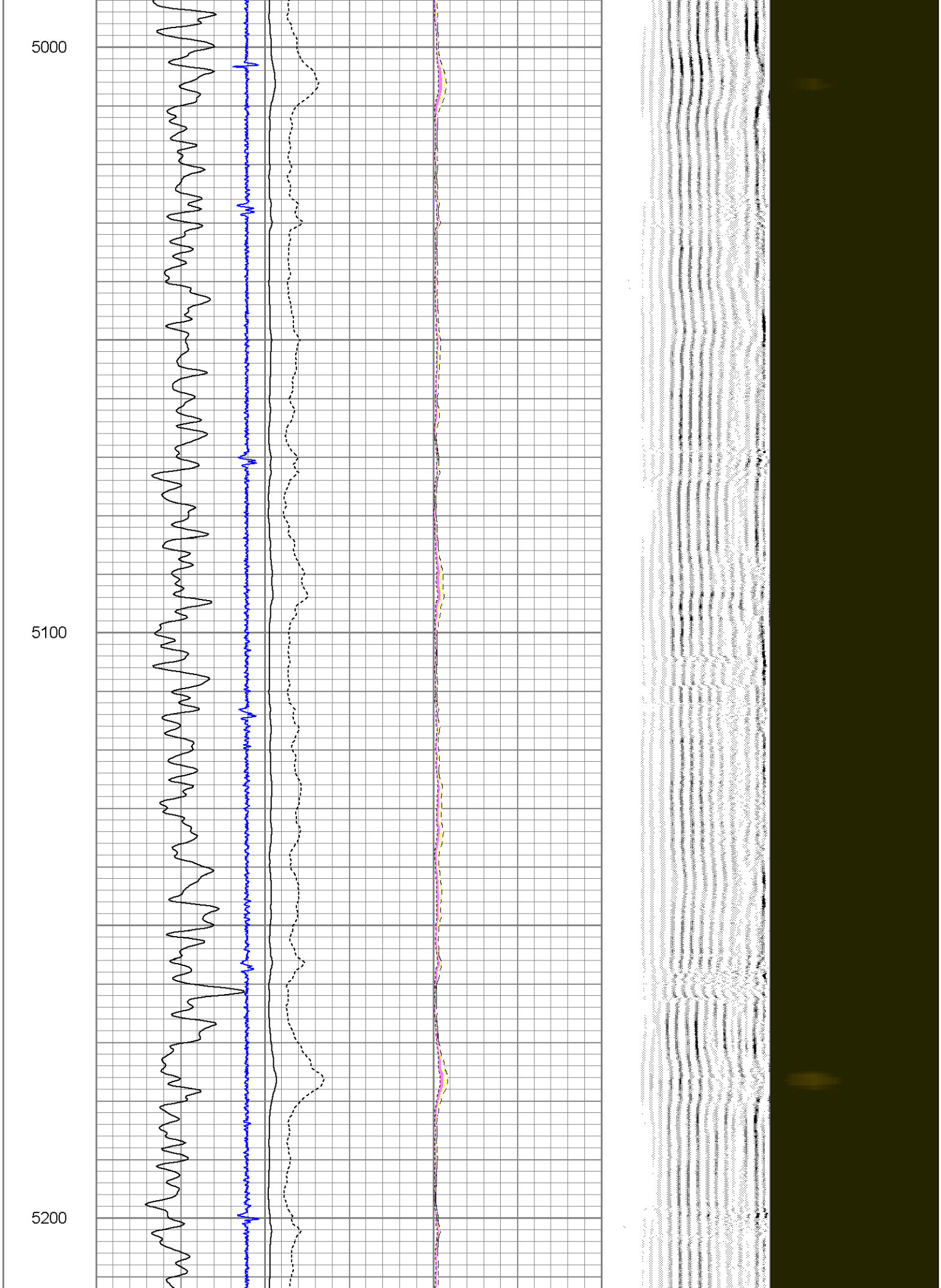
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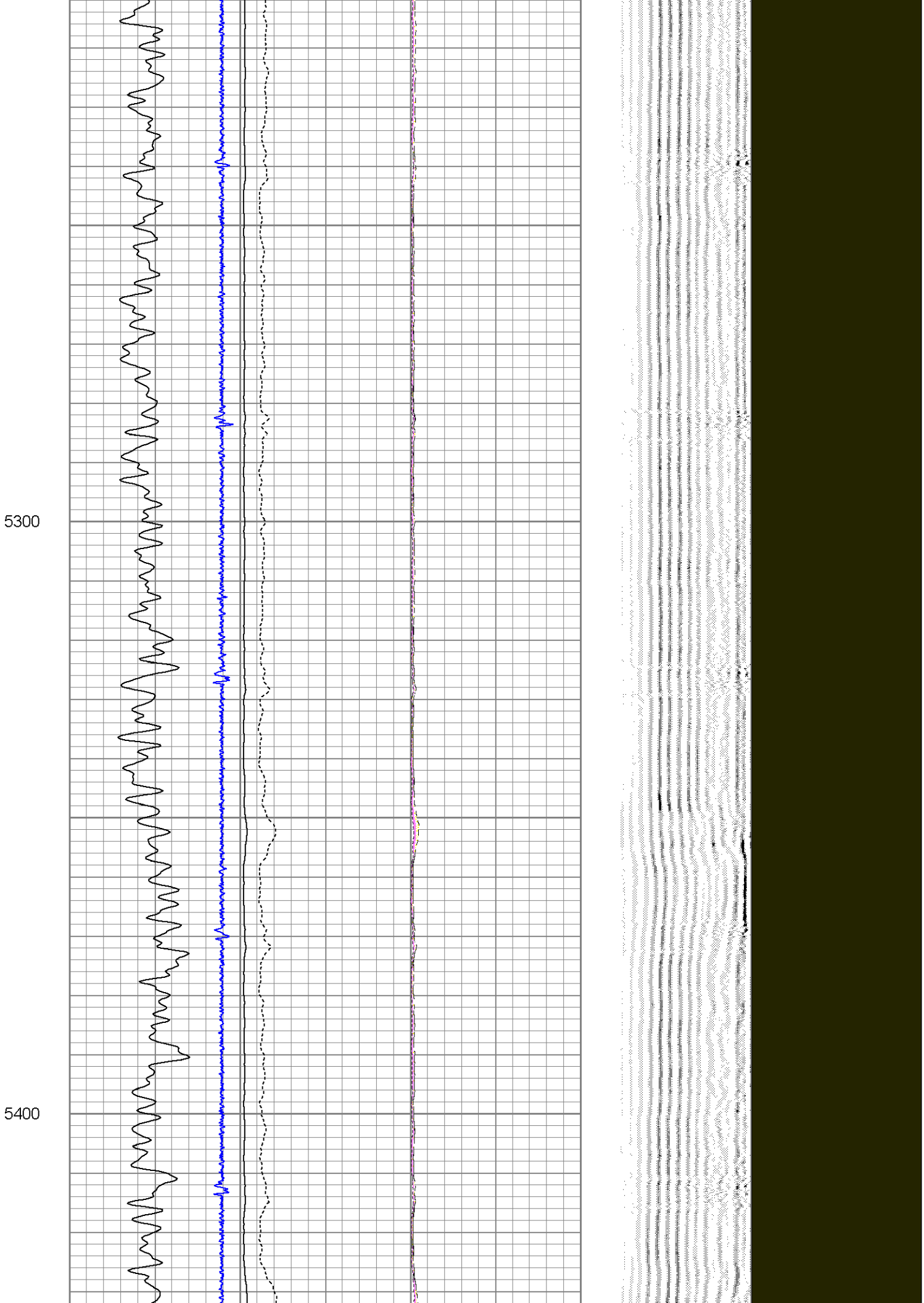
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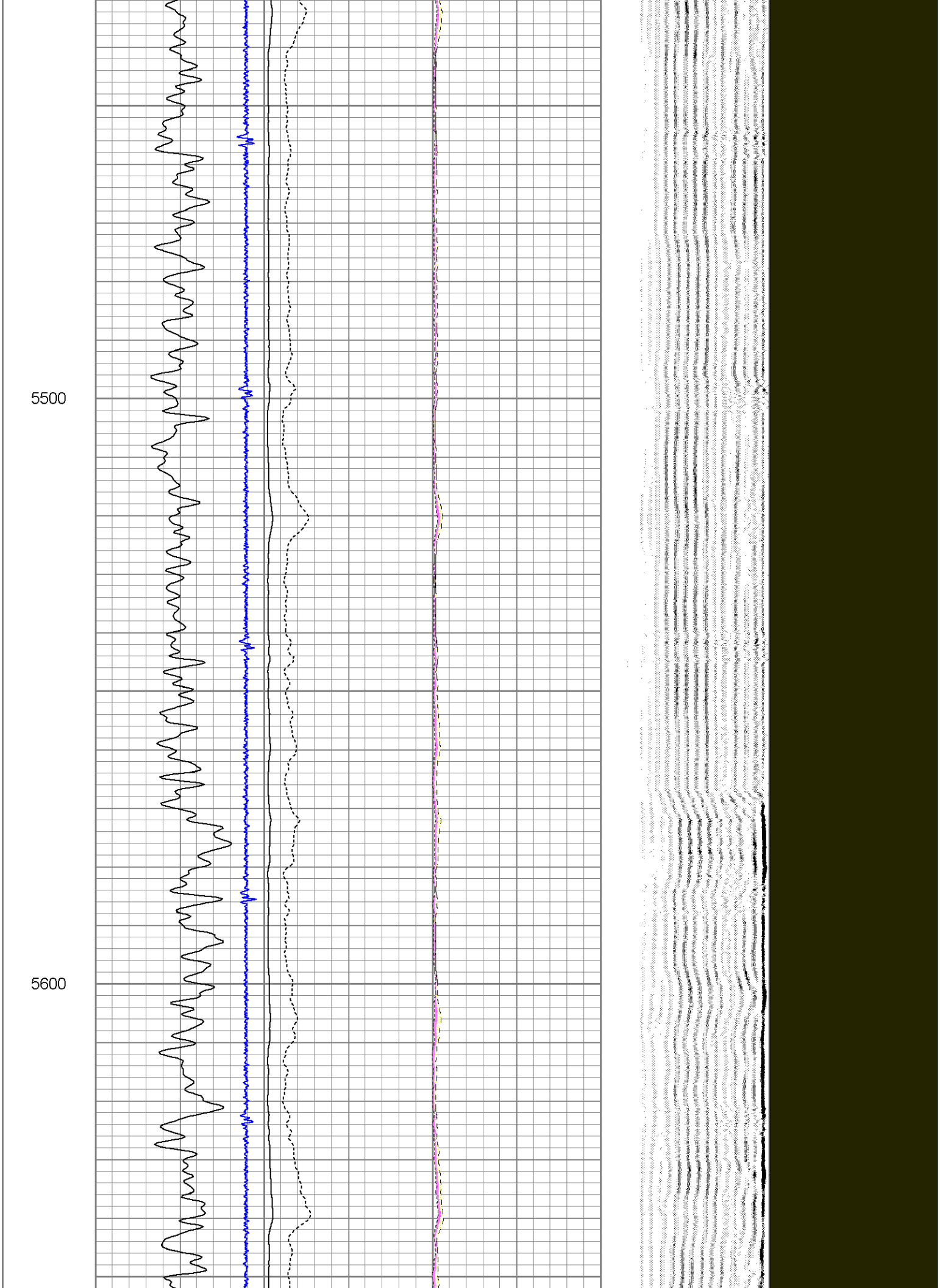
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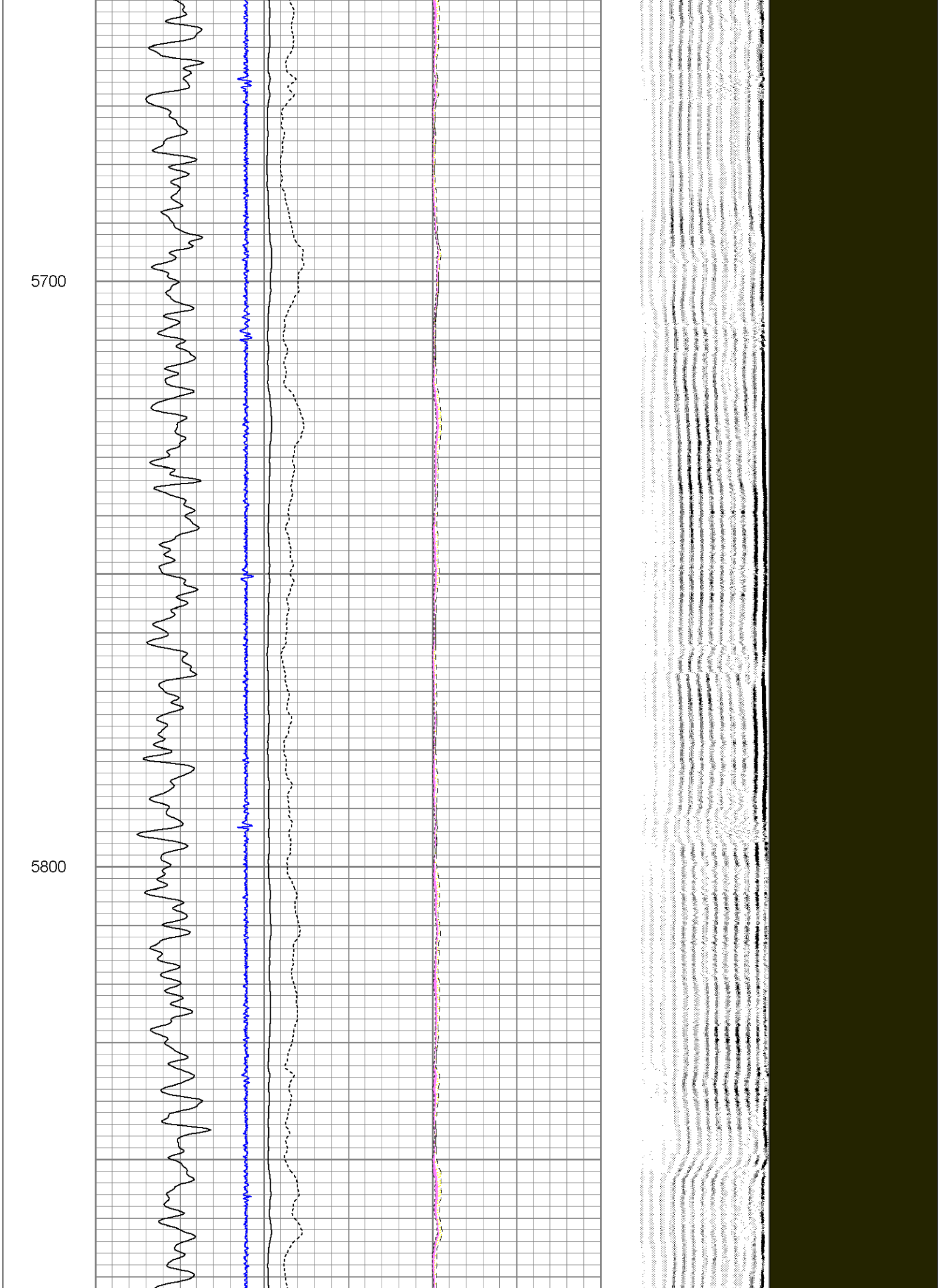
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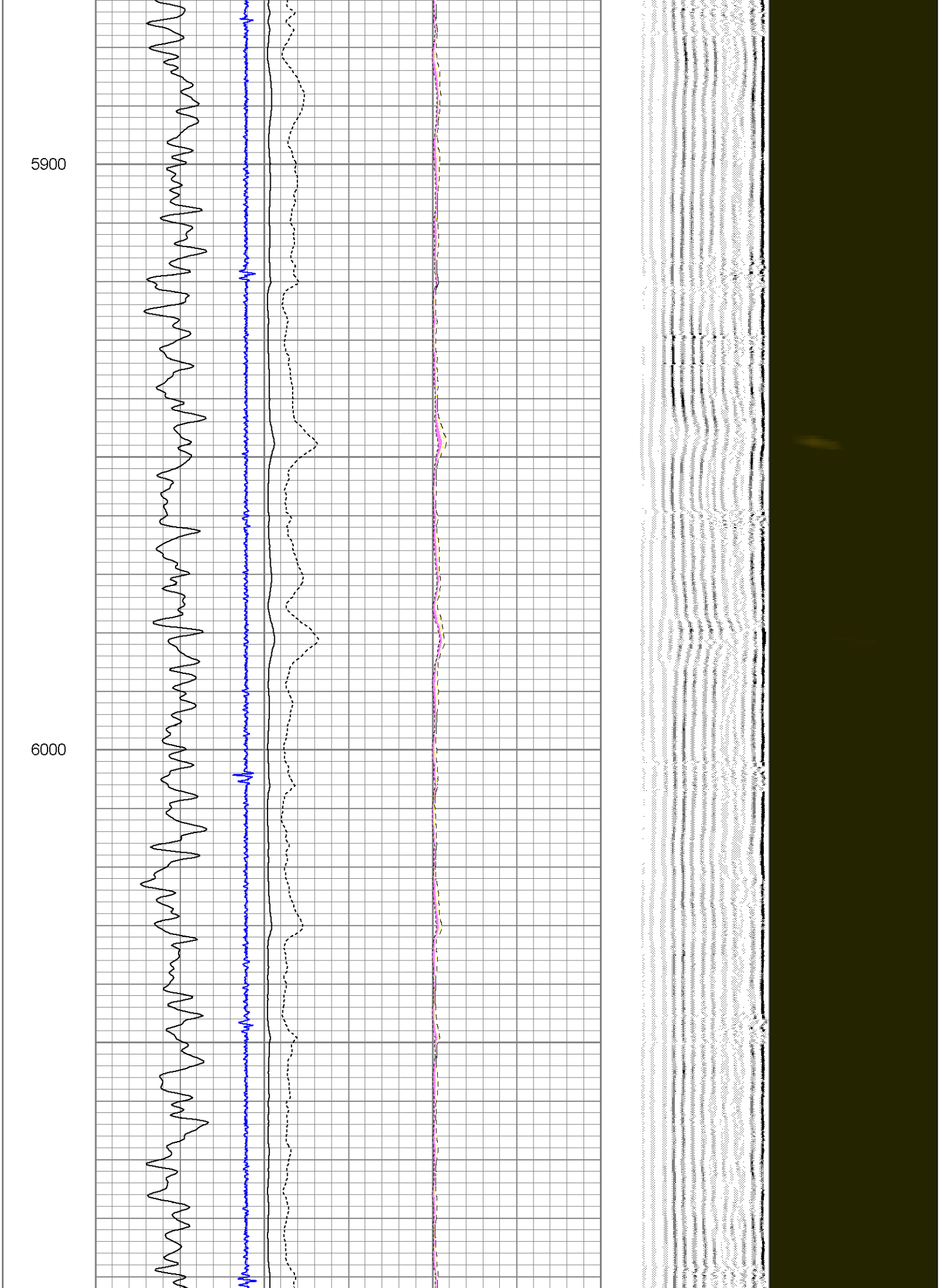
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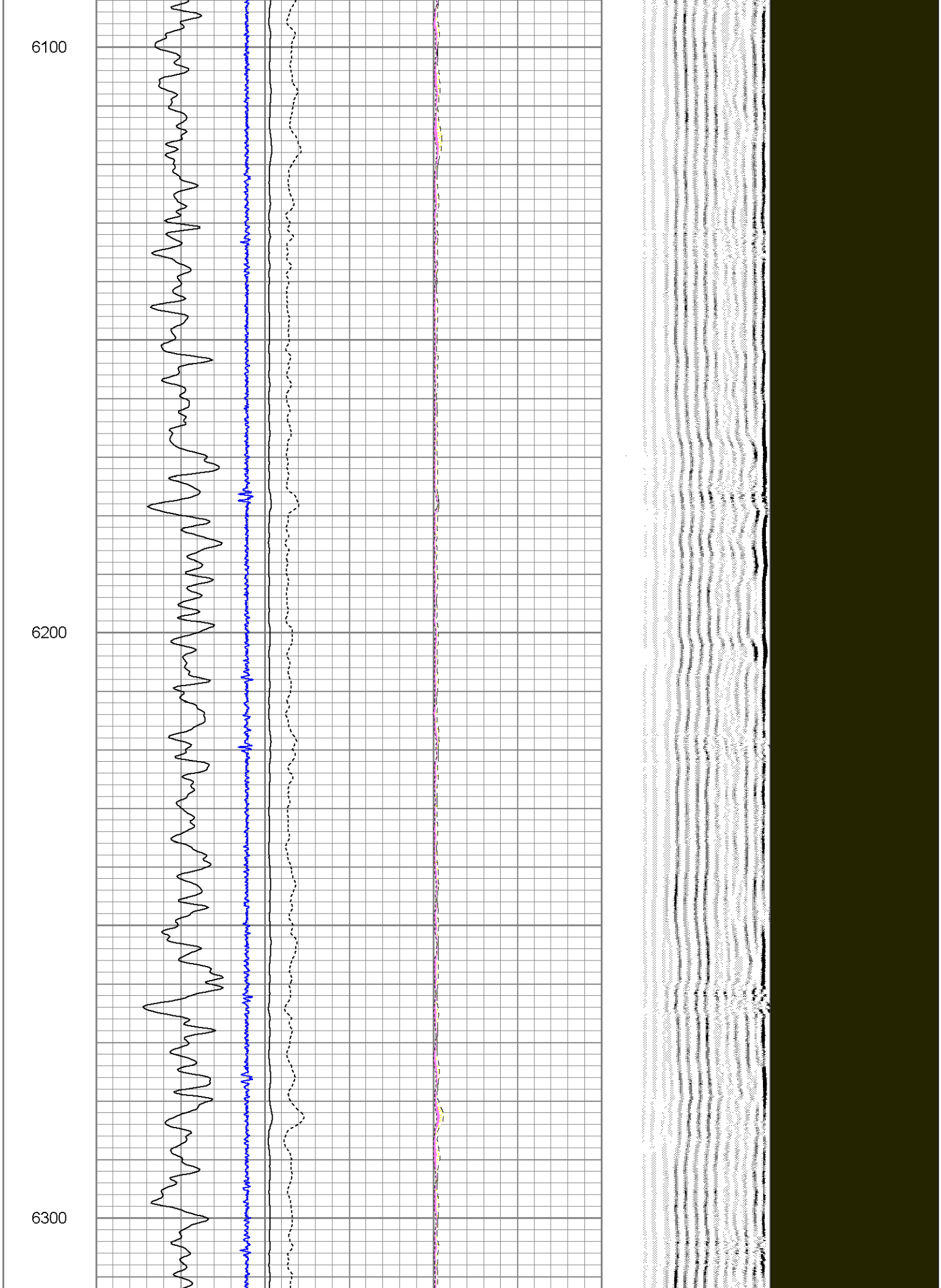
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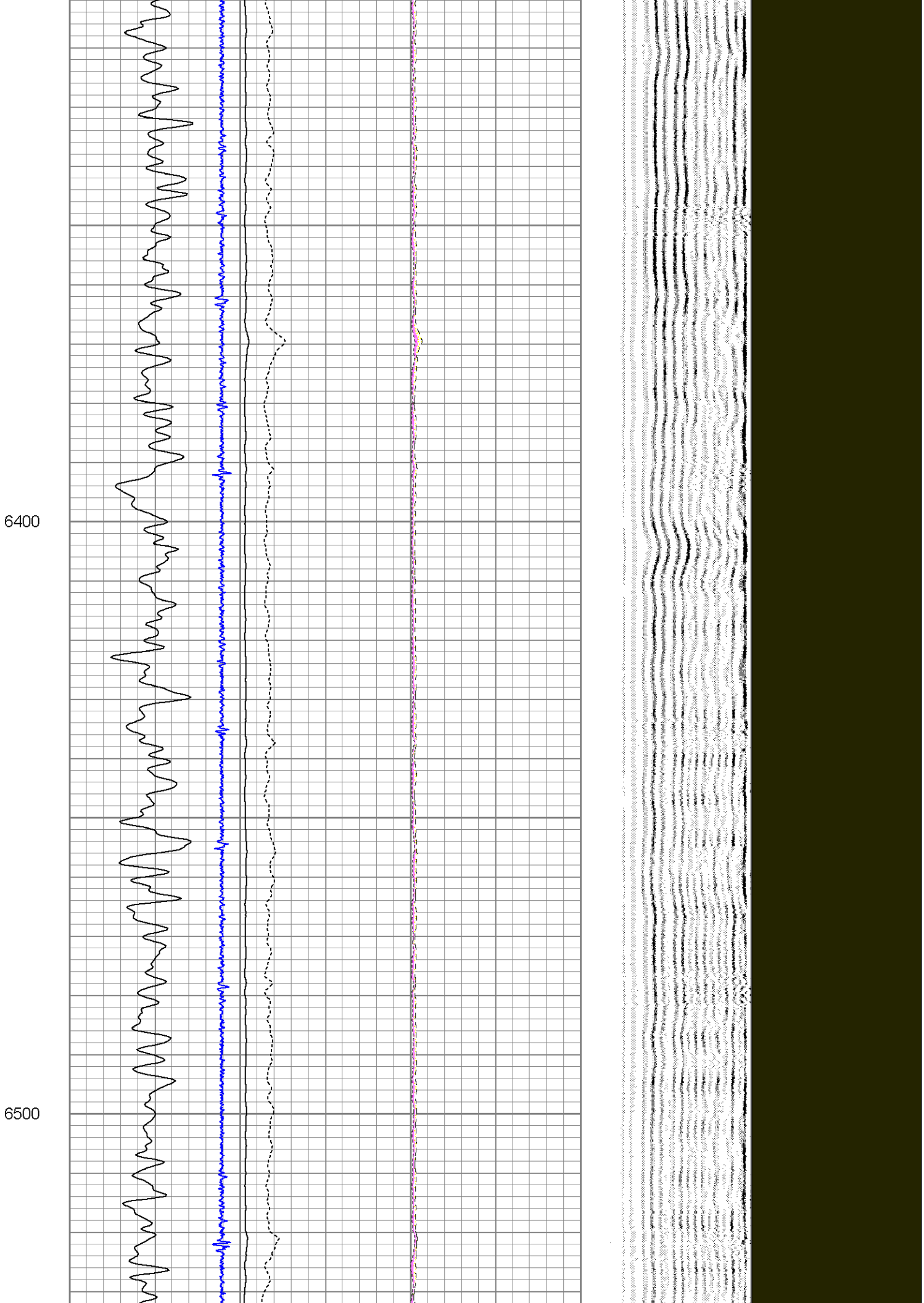
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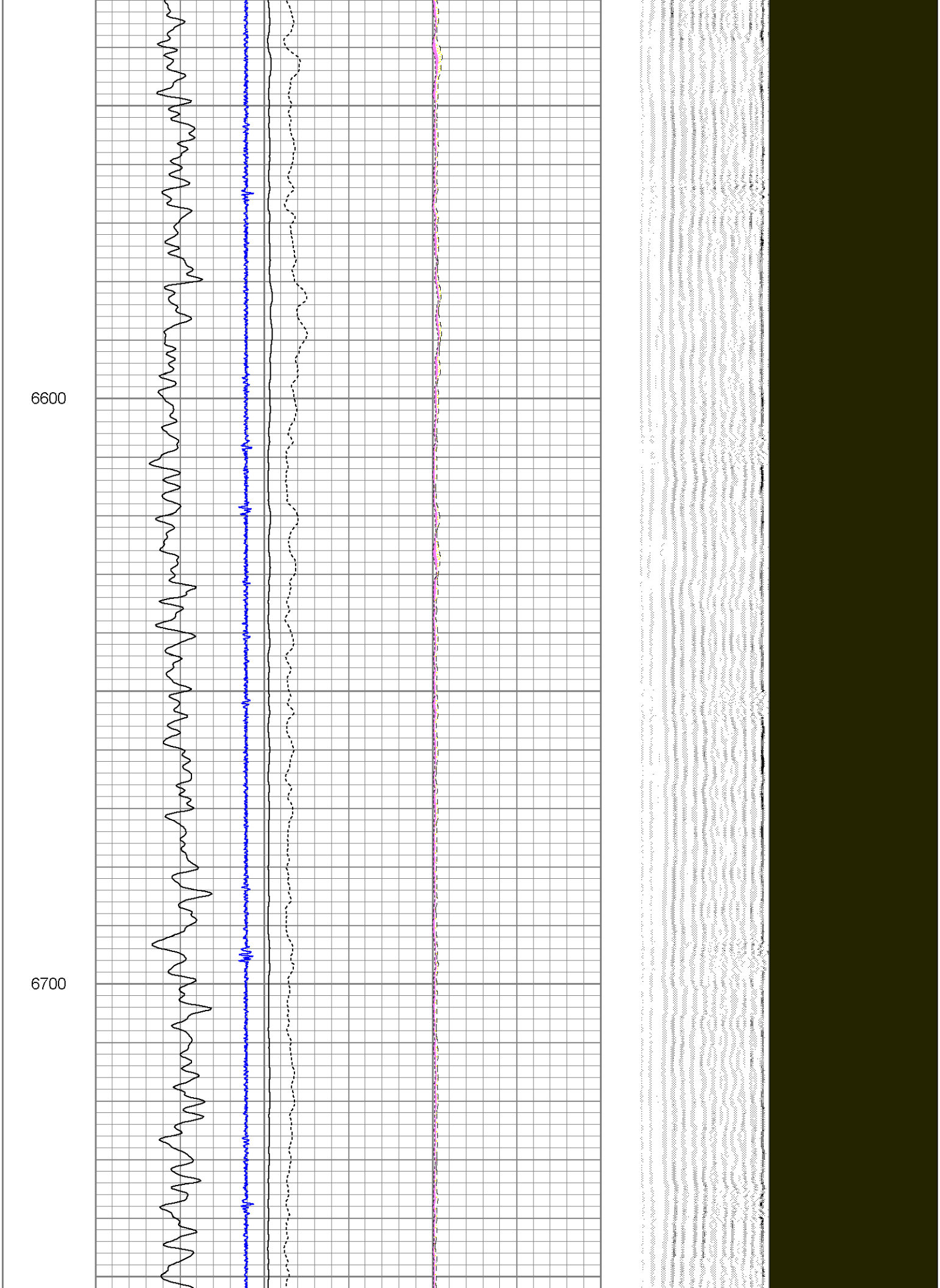
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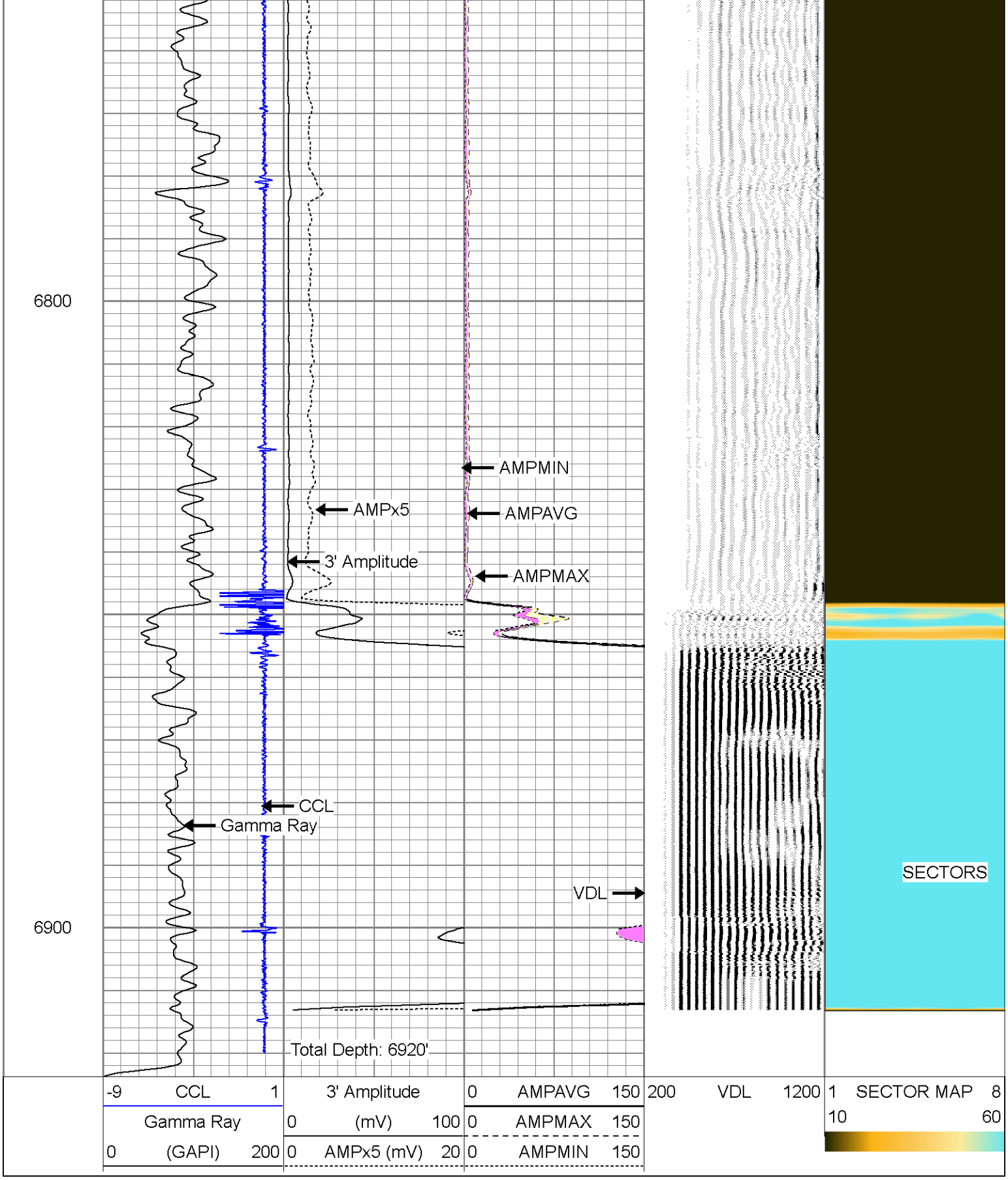

Calibration Report

Database File: vogl state 16c-36hz_rbl.db
Dataset Pathname: RBL/pass1
Dataset Creation: Fri Sep 26 16:13:20 2014 by Log 7.0 B1

Gamma Ray Calibration Report

Serial Number: 11205

Tool Model:	Probe	
Performed:	Thu Sep 25 05:35:30 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:	4.500	in
Calibration Depth:	1638.155	ft

Master Calibration, performed Tue Sep 23 13:20:28 2014:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.016	0.611	1.000	81.196	134.773	-1.209
CAL	0.013	0.748				
5'	0.013	0.538	1.000	81.196	152.801	-1.001
SUM						
S1	0.022	0.592	0.000	100.000	175.237	-3.773
S2	0.021	0.591	0.000	100.000	175.481	-3.659
S3	0.022	0.608	0.000	100.000	170.667	-3.683
S4	0.022	0.641	0.000	100.000	161.753	-3.617
S5	0.015	0.649	0.000	100.000	157.872	-2.421
S6	0.015	0.646	0.000	100.000	158.303	-2.296
S7	0.016	0.637	0.000	100.000	161.041	-2.611
S8	0.021	0.607	0.000	100.000	170.731	-3.626

Internal Reference Calibration, performed Tue Sep 02 11:05:47 2014:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.013	0.748	1.000	0.000

Air Zero Calibration, performed Tue Sep 02 11:40:55 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

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Well	VOGL STATE 16C-36HZ
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County	WELD
State	COLORADO