PIONEER

Pioneer Energy Services

RADIAL SECTOR BOND LOG WITH GAMMA RAY

Company ANADARKO PETROLEUM CORP.
Well NRC #3N-32HZ
Field WATTENBERG
County WELD
State COLORADO

Company **ANADARKO PETROLEUM CORP.**
Well **NRC #3N-32HZ**
Field **WATTENBERG**
County **WELD** State **COLORADO**

Location: API # : 0512339291

612' FNL & 2095' FWL
NENW

SEC 8 TWP 1N RGE 67W

Other Services

Permanent Datum	GL	Elevation	5,034'
Log Measured From	KB		
Drilling Measured From	KB		

Elevation	
K.B.	5,059'
D.F.	5,059'
G.L.	5,034'

Date of Service	16-AUG-2014			
Run Number	ONE			
Depth Driller or PBTD	18494			
Depth Logger	7545			
Bottom Log Interval	7545			
Top Log Interval	SURFACE			
Open Hole Size	8-7/8"			
Type Fluid	WATER			
Fluid Level	FULL			
Fluid Density	8.33PPG			
Max. Recorded Temperature	224°			
Max. Wellhead Pressure	2800 PSI			
Wellhead Connection	10K WELL HEAD			
Estimated Cement Top	18			
Unit Number	P-75			
Wireline Size	9/32"			
Location	FORT MORGAN			
Recorded By	LEROY HOBBS			
Witnessed By	JIM ADAMS			

	Size	Wt/Ft	Top	Bottom
Tubing Record				
Surface Casing	9-5/8"	36#	SURFACE	N/A
Production Casing	7"	26#	SURFACE	N/A
Liner Record	4-1/2"	11.6#	6765	N/A

<< 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

Tool Data - Services Serial Number

Your Pioneer Energy Services Crew

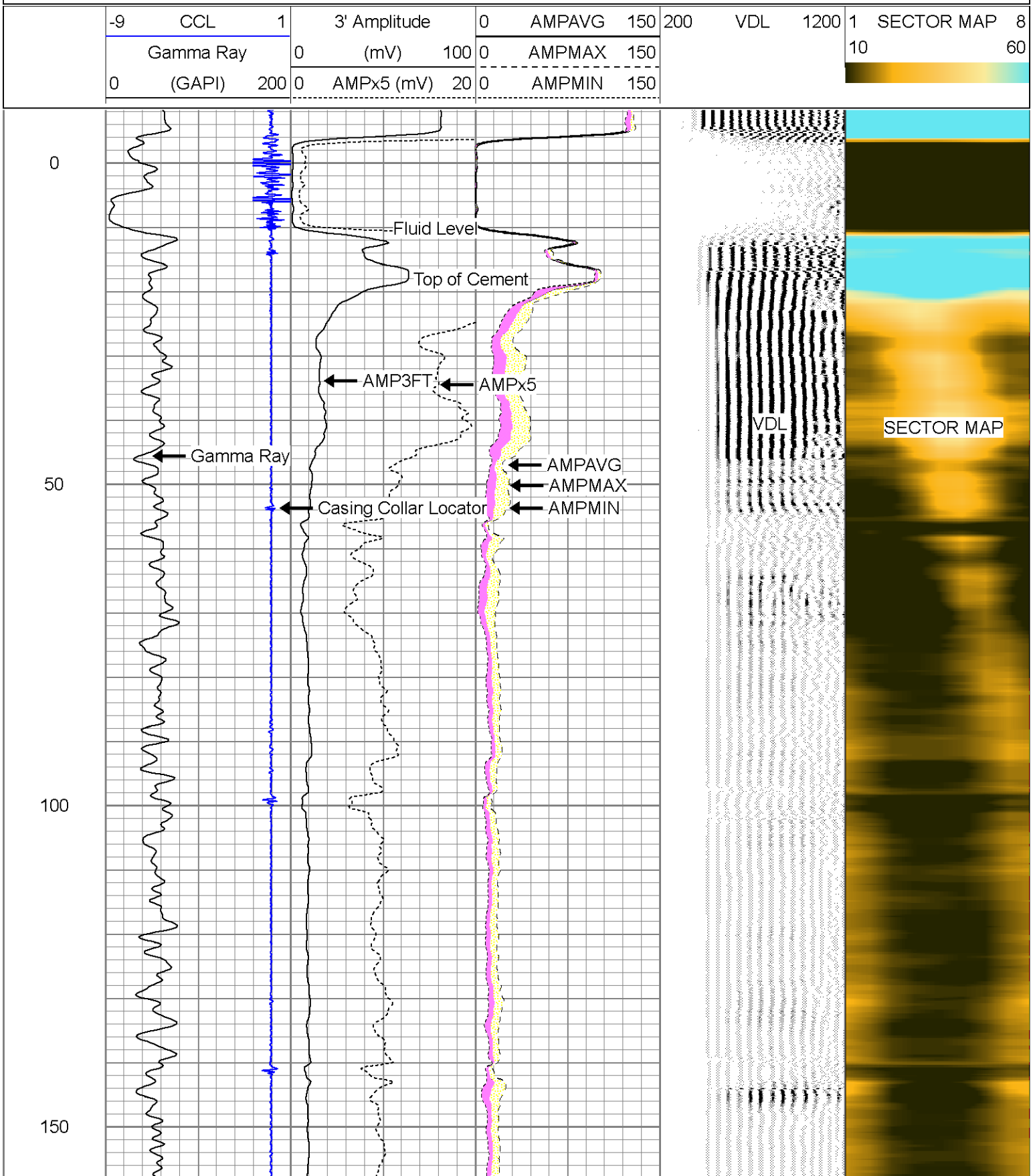
Engineer: HOBBS
Operator: SPILLMAN-SALCIDO
Operator: GENO-IGOR
Operator:

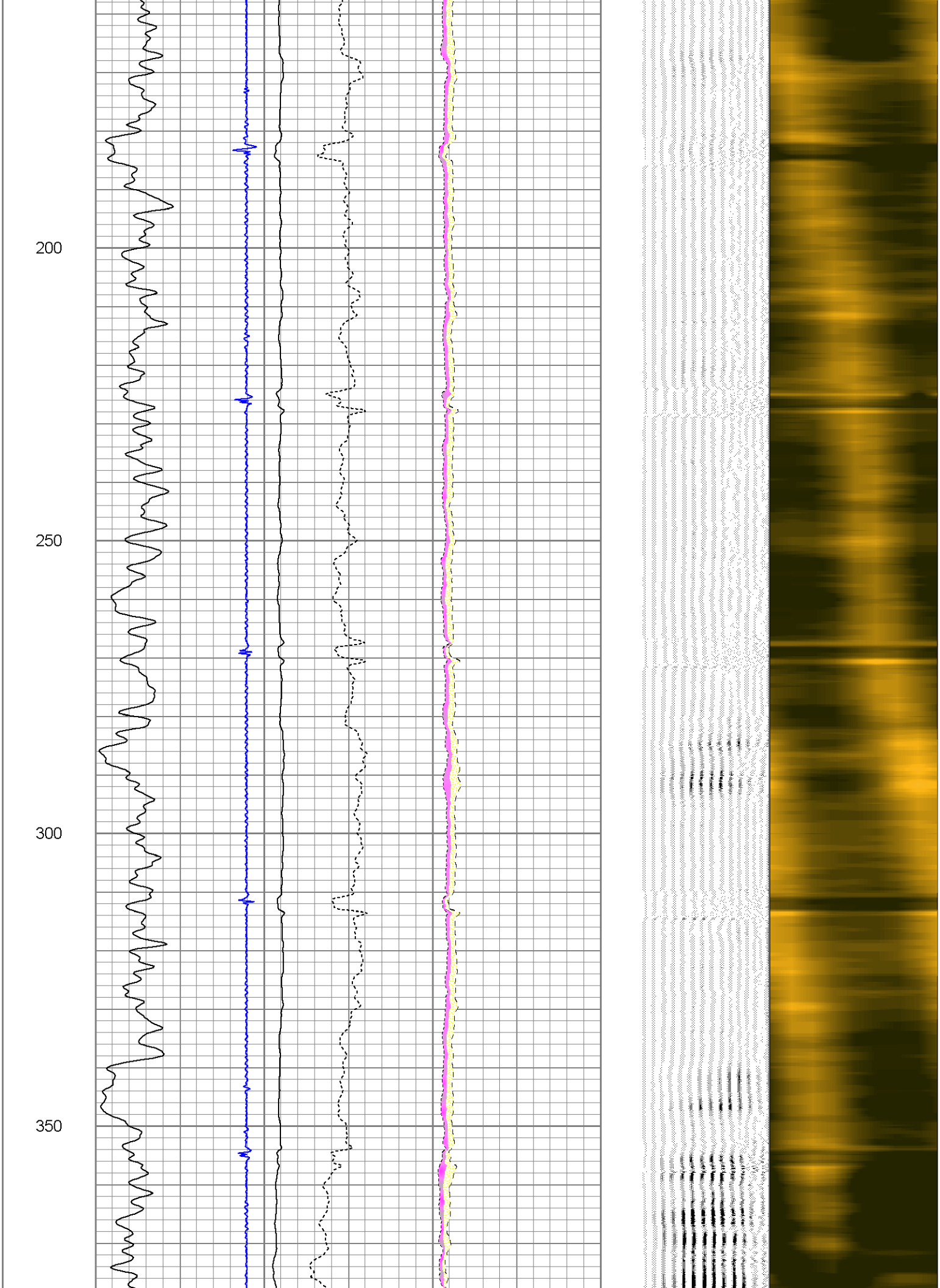
NRC #3N-32HZ 0512339291

PIONEER
Pioneer Energy Services

LOGGED UNDER 2800 PSI

Database File:	ncr#3n-32hz_0512339291.db
Dataset Pathname:	pass1
Presentation Format:	scbl02
Dataset Creation:	Sat Aug 16 10:56:33 2014 by Log 7.0 B1
Charted by:	Depth in Feet scaled 1:240

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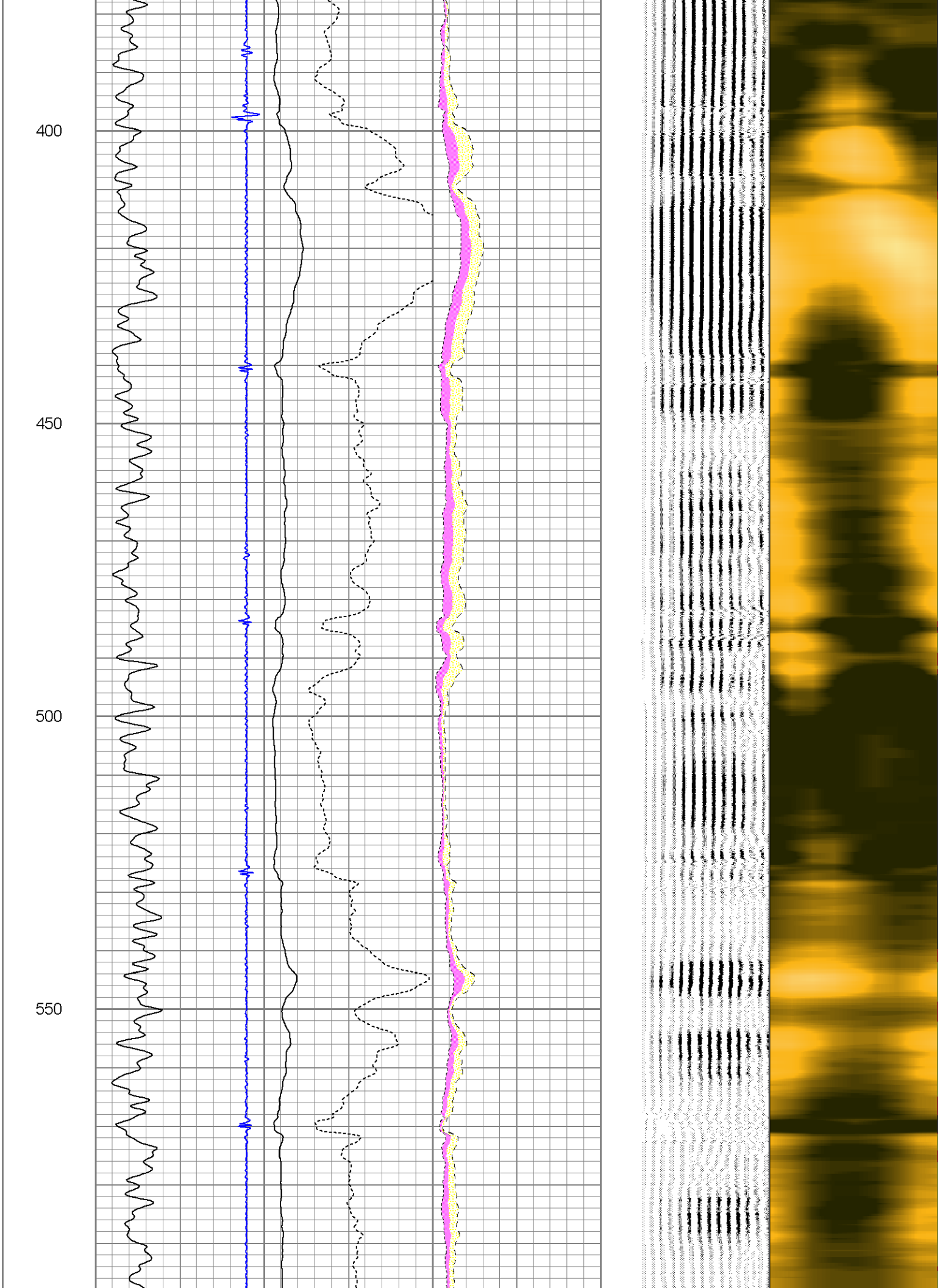
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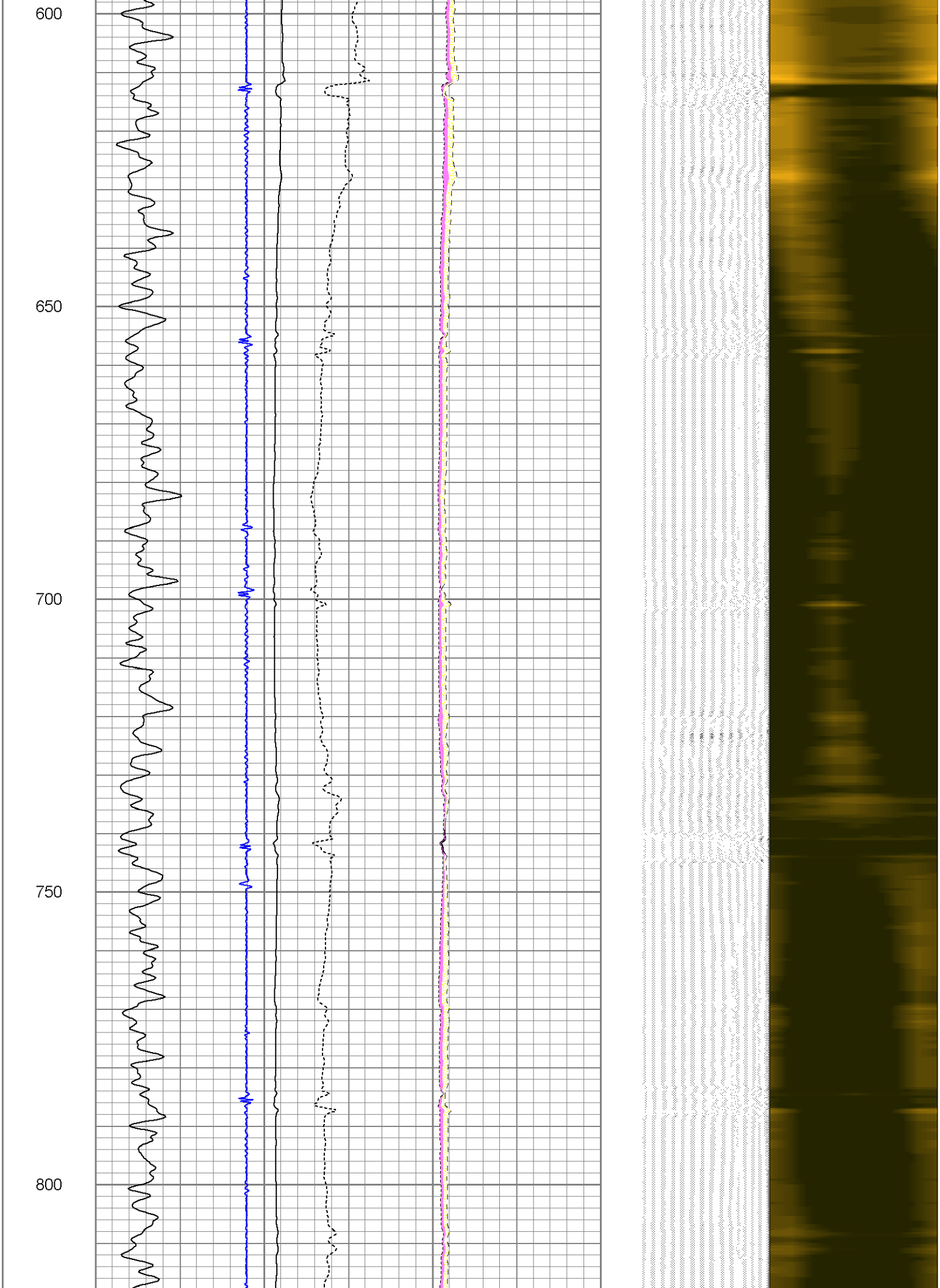
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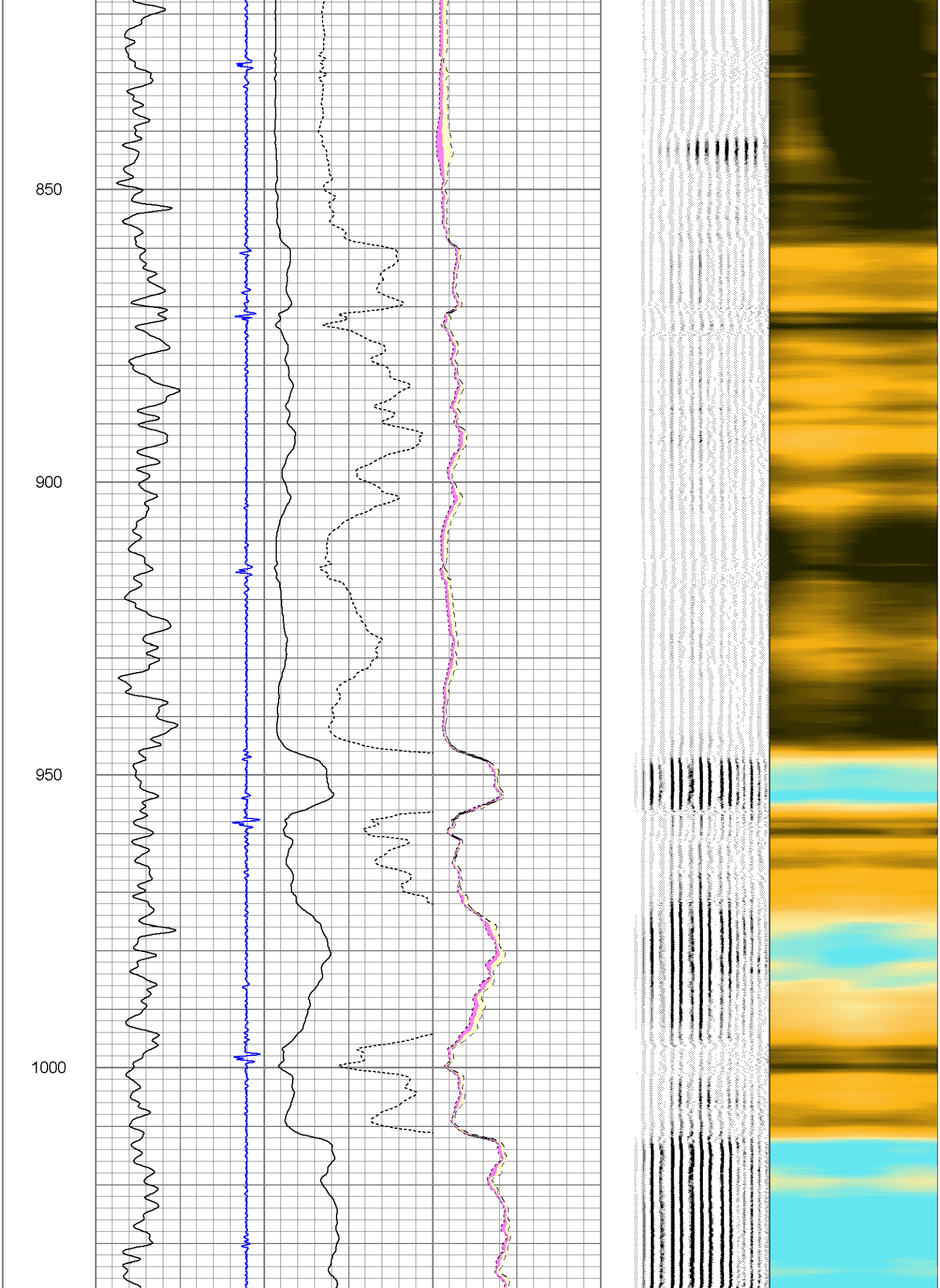
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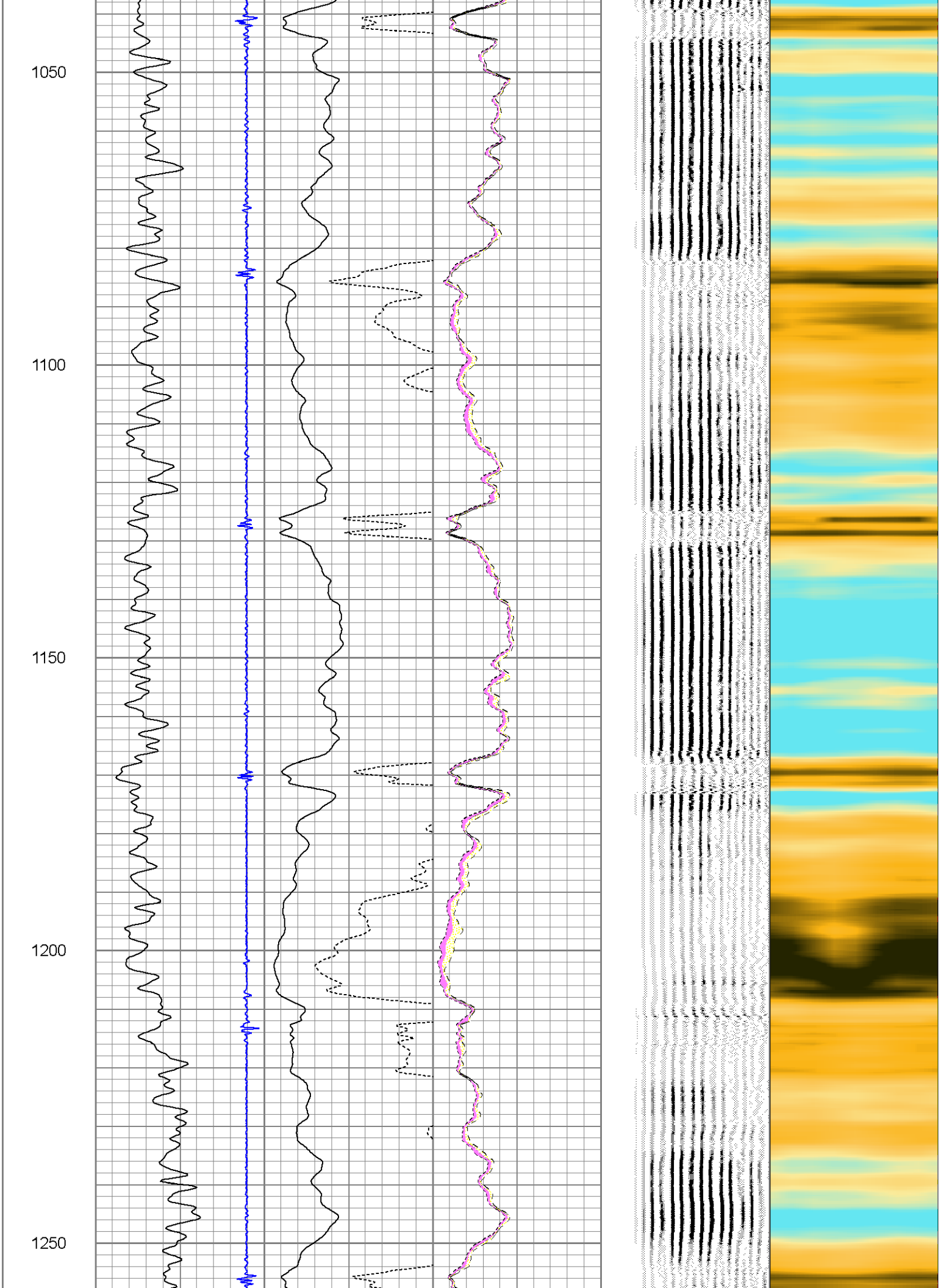
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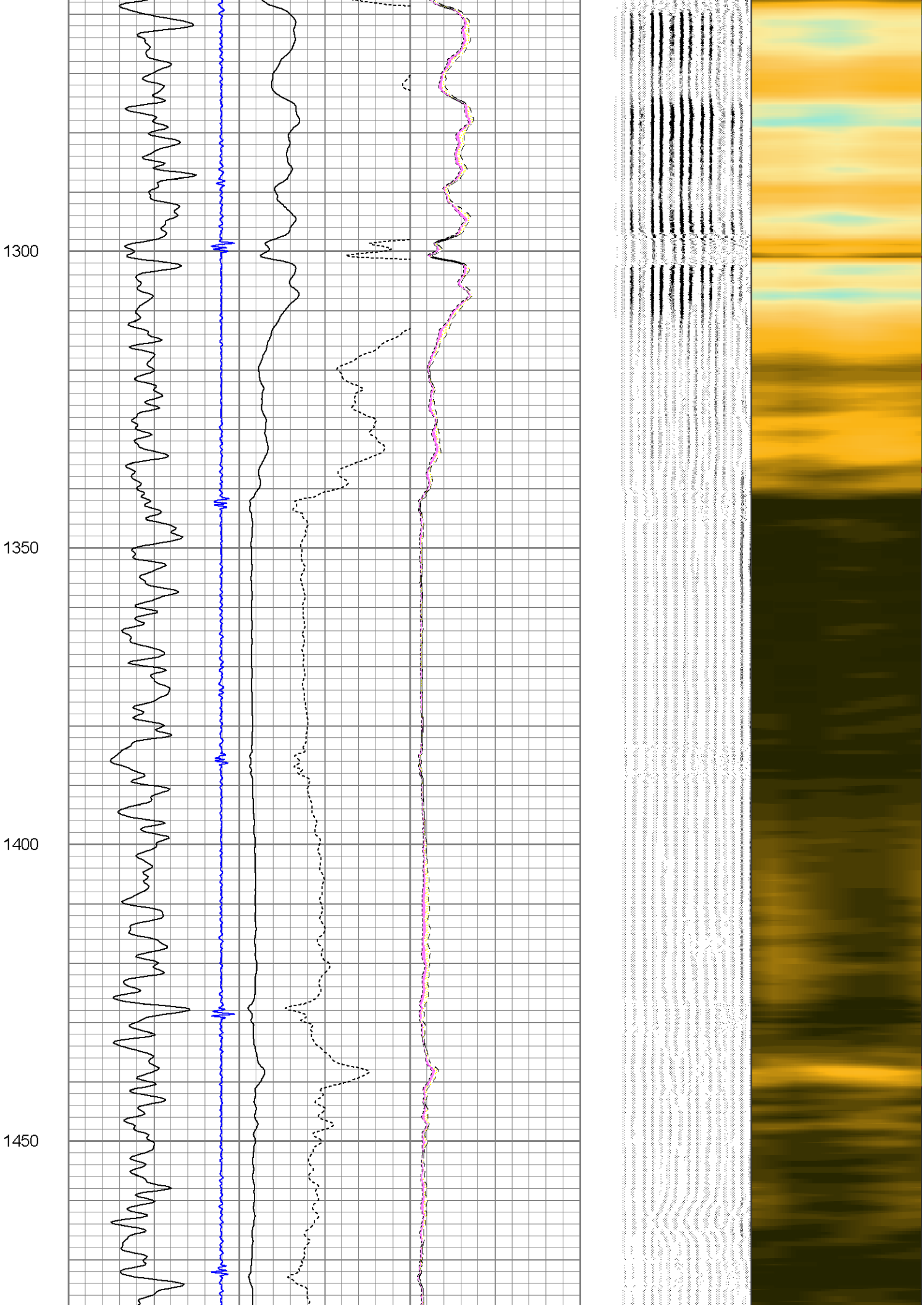
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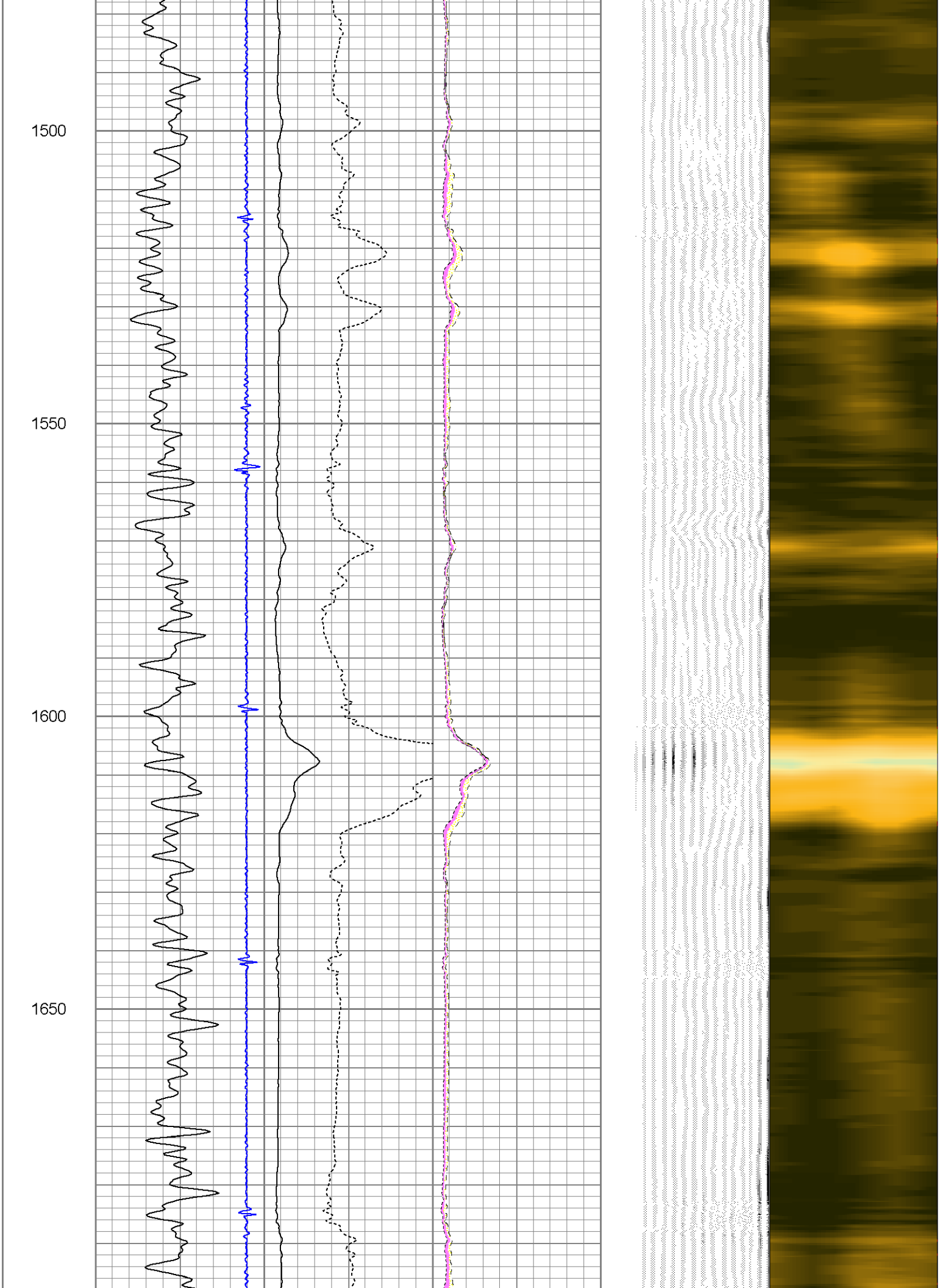
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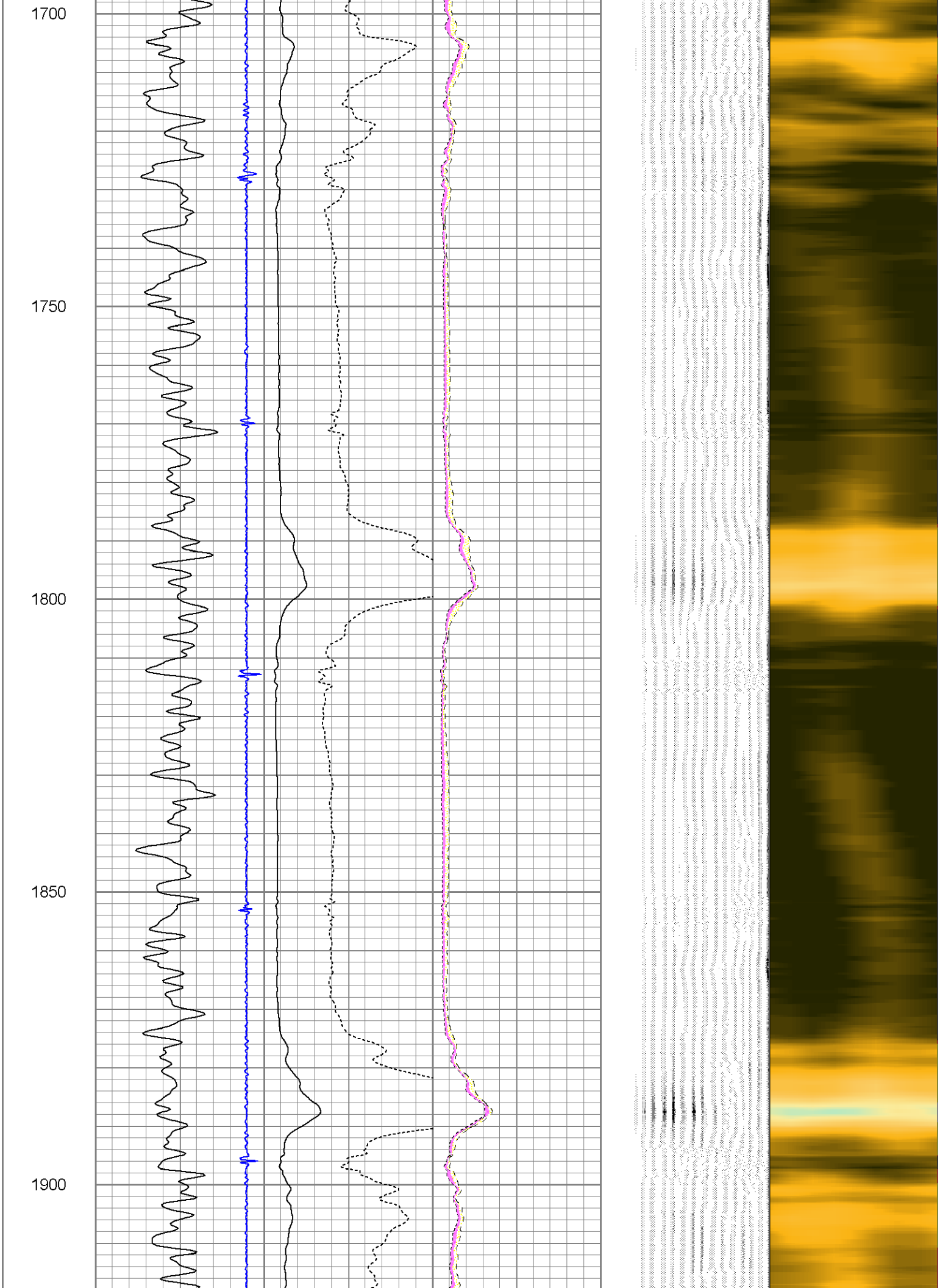
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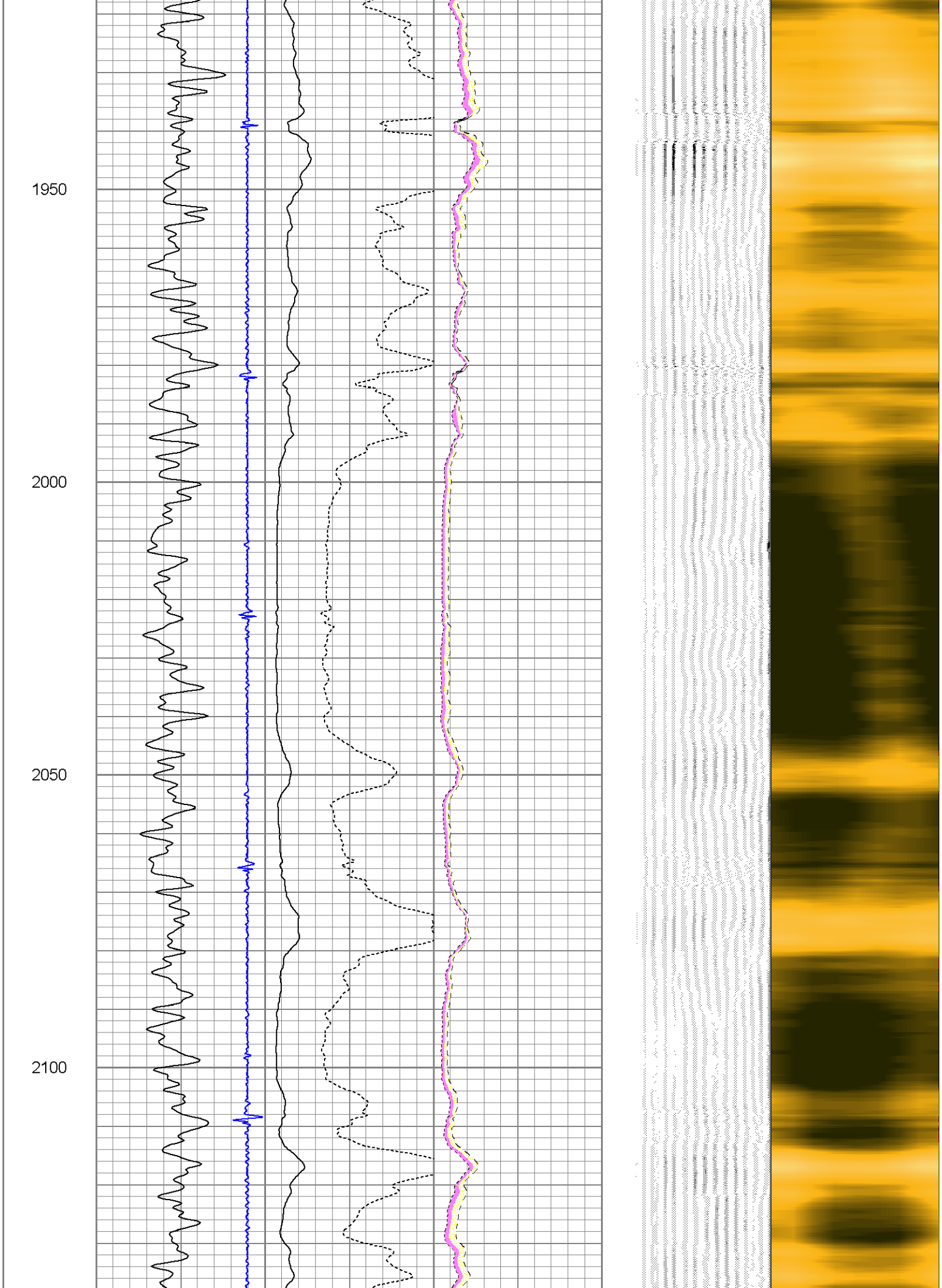
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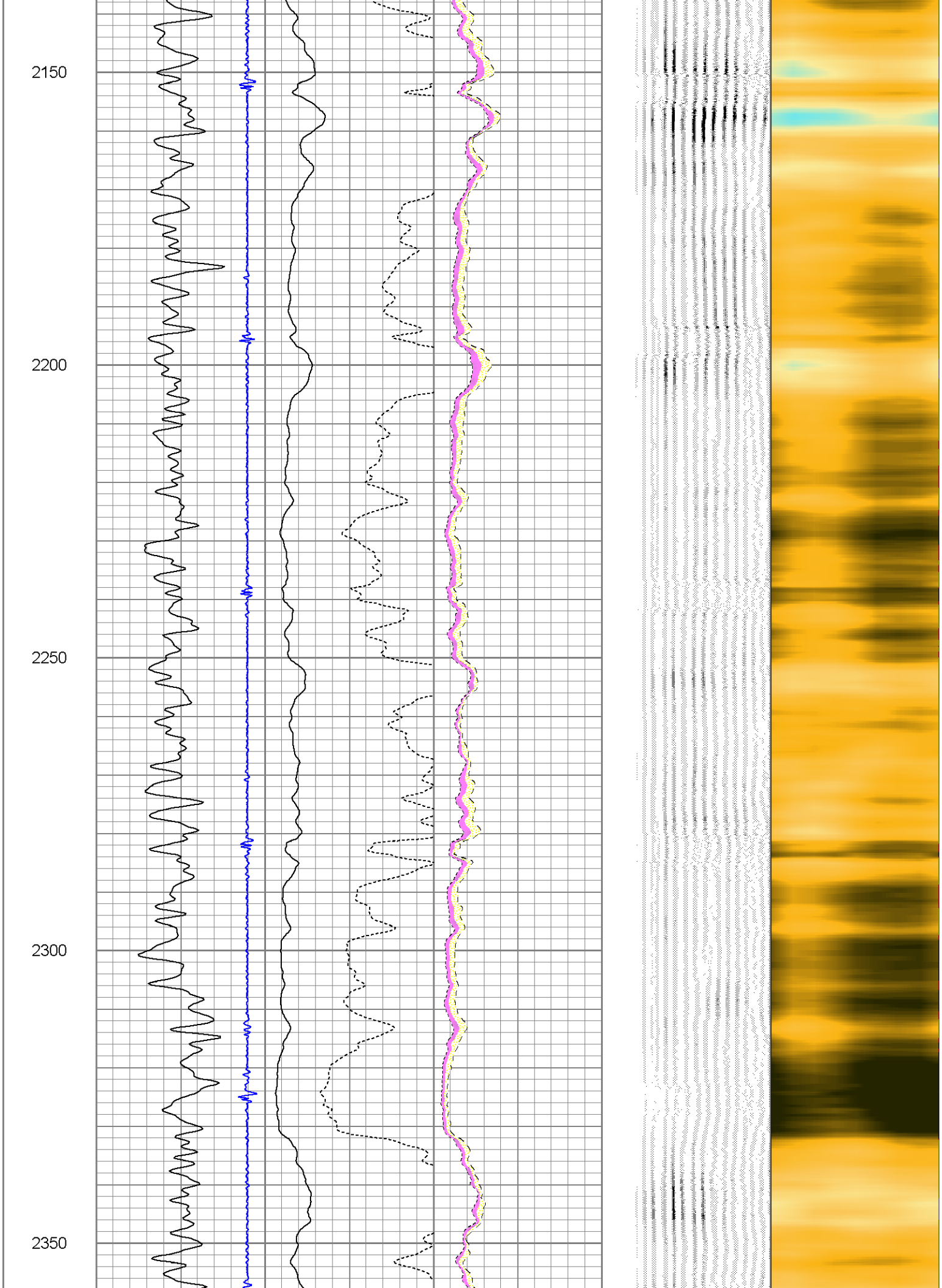
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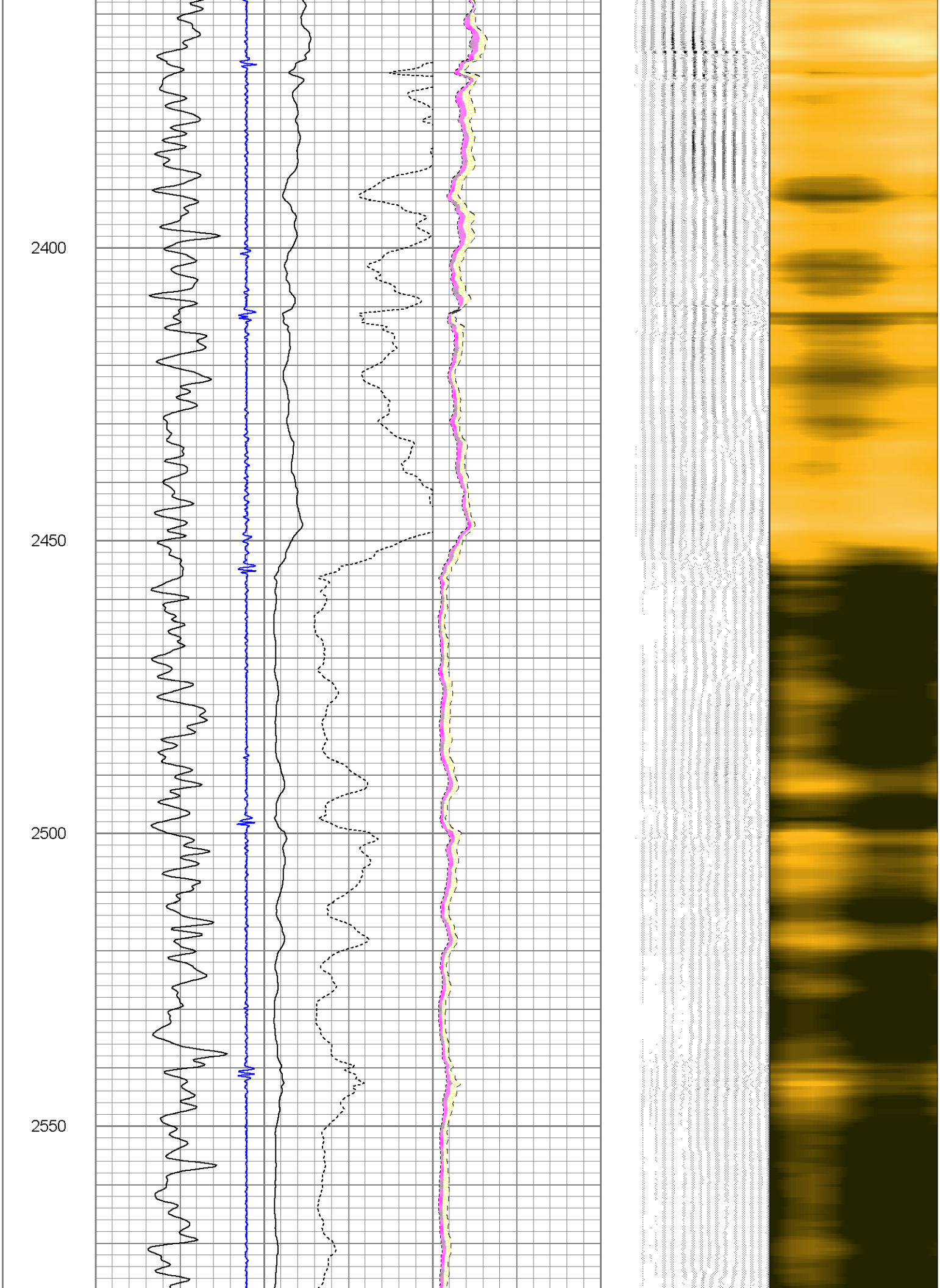
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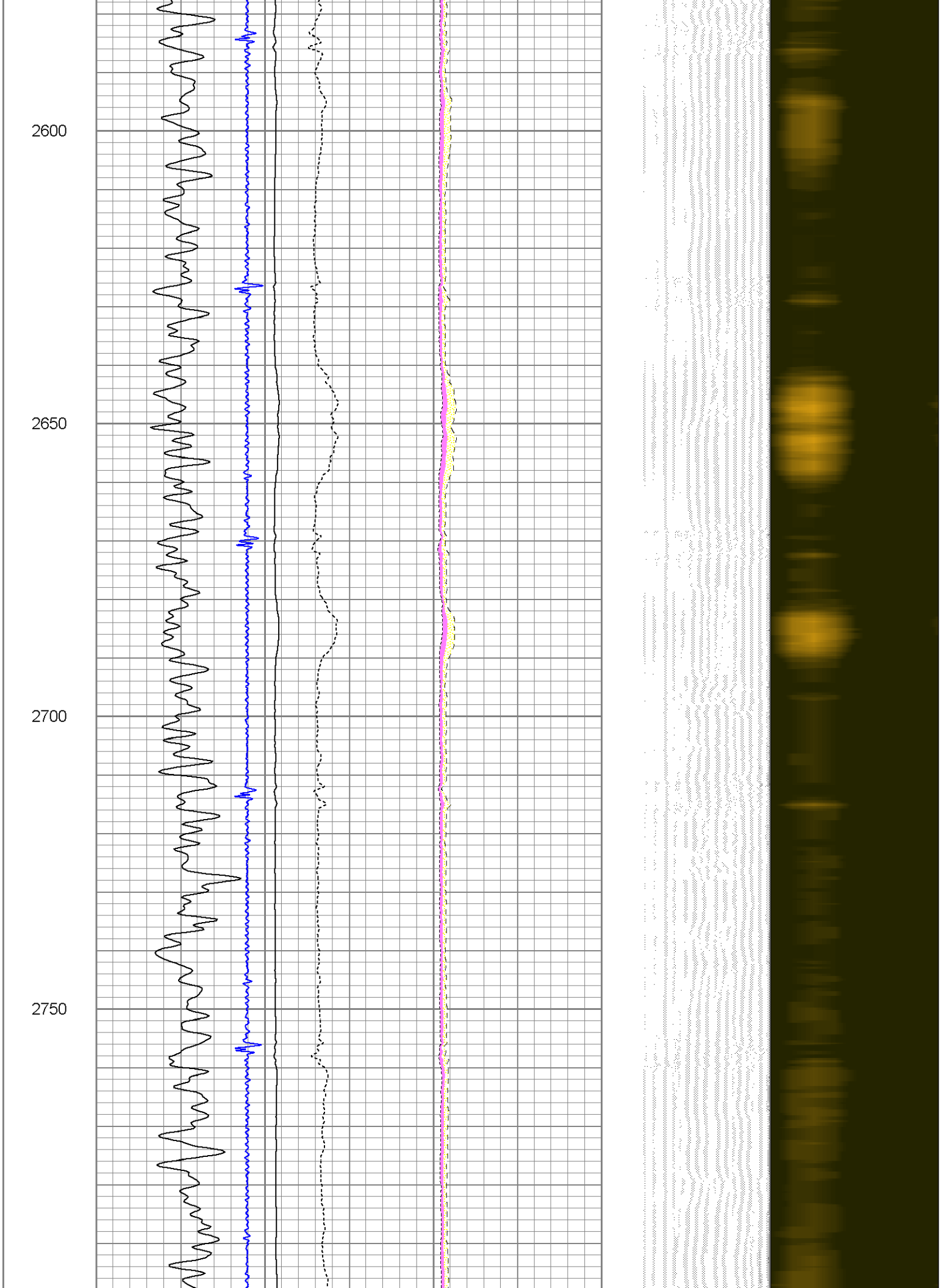
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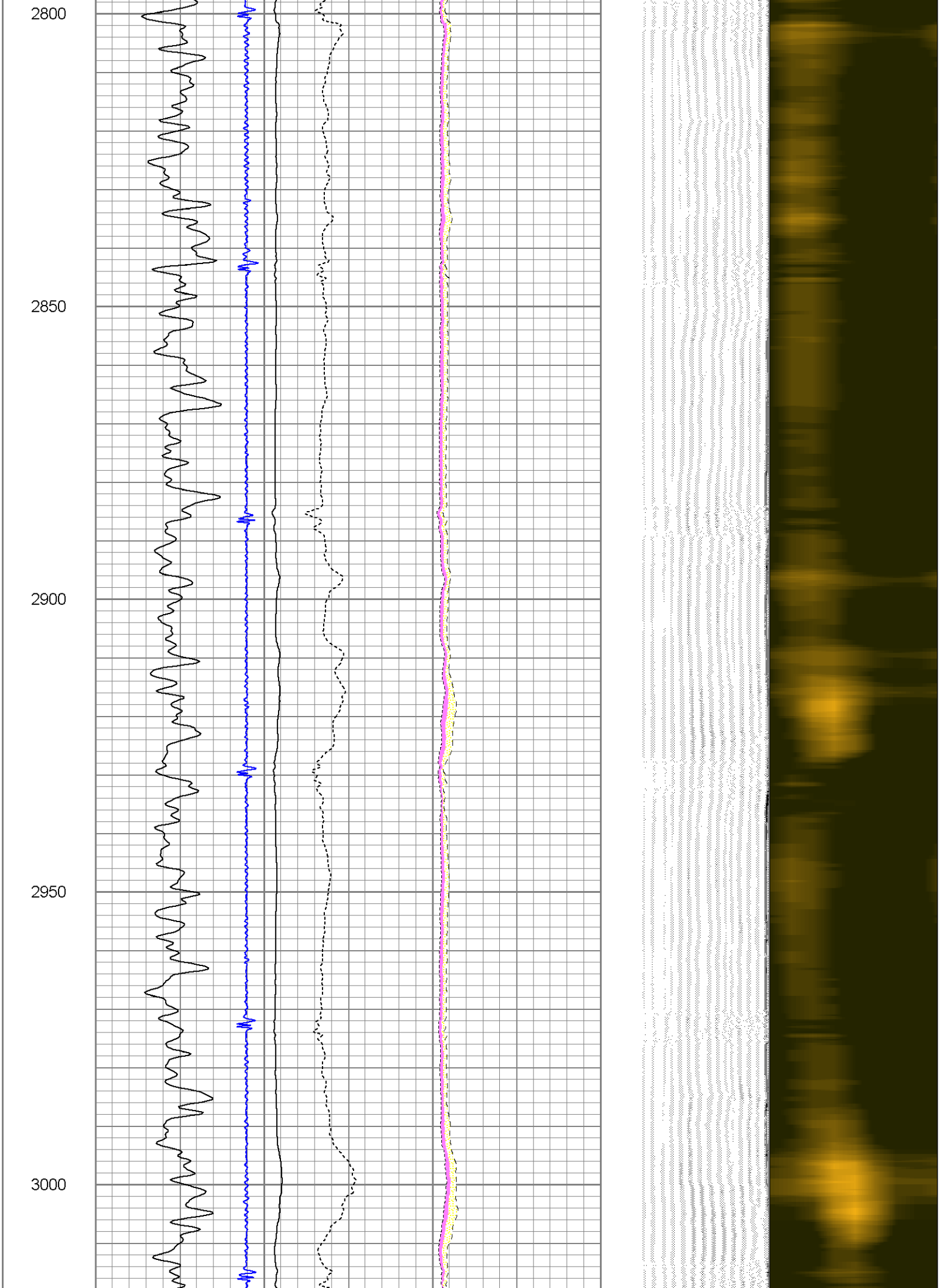
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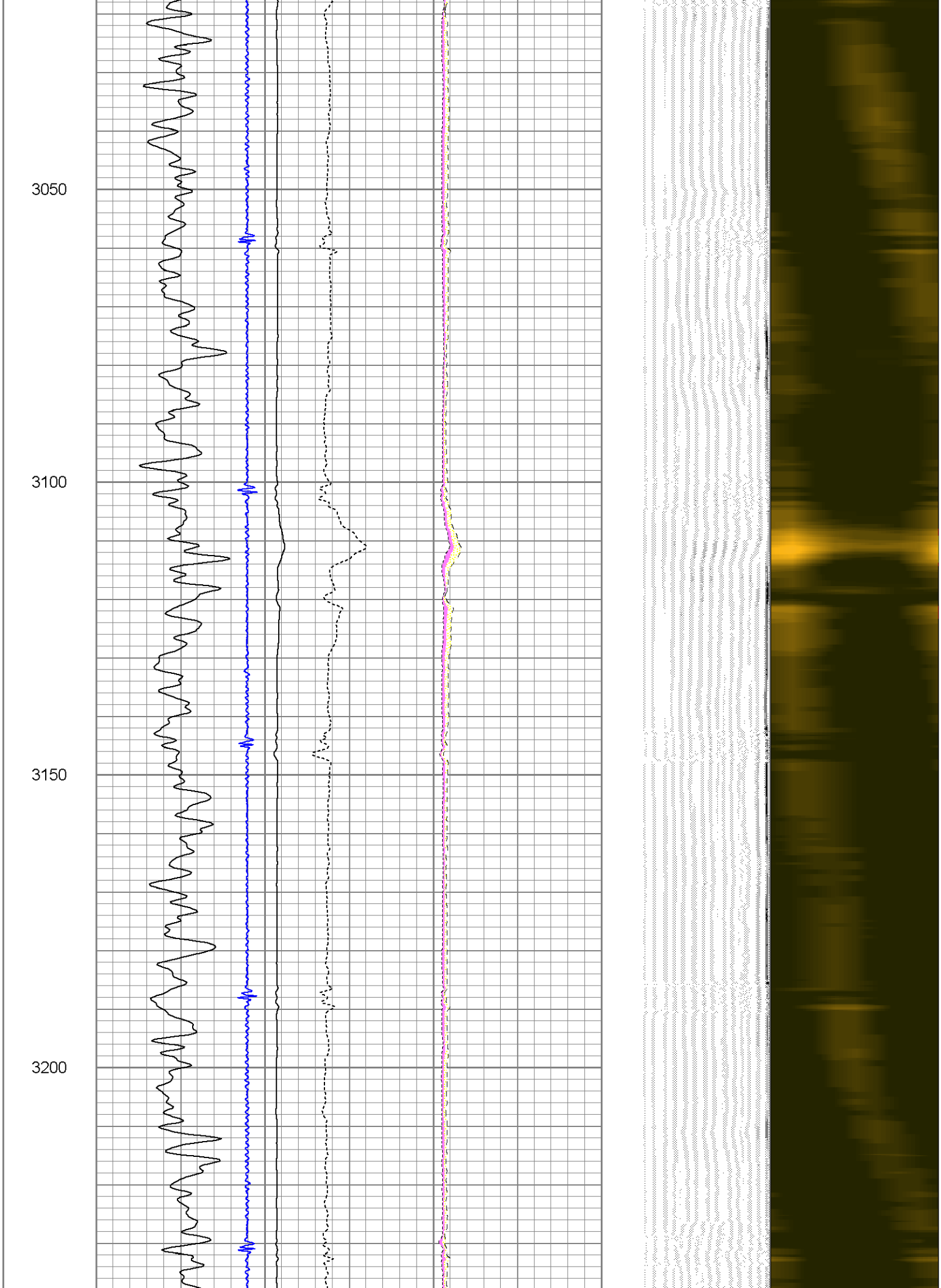
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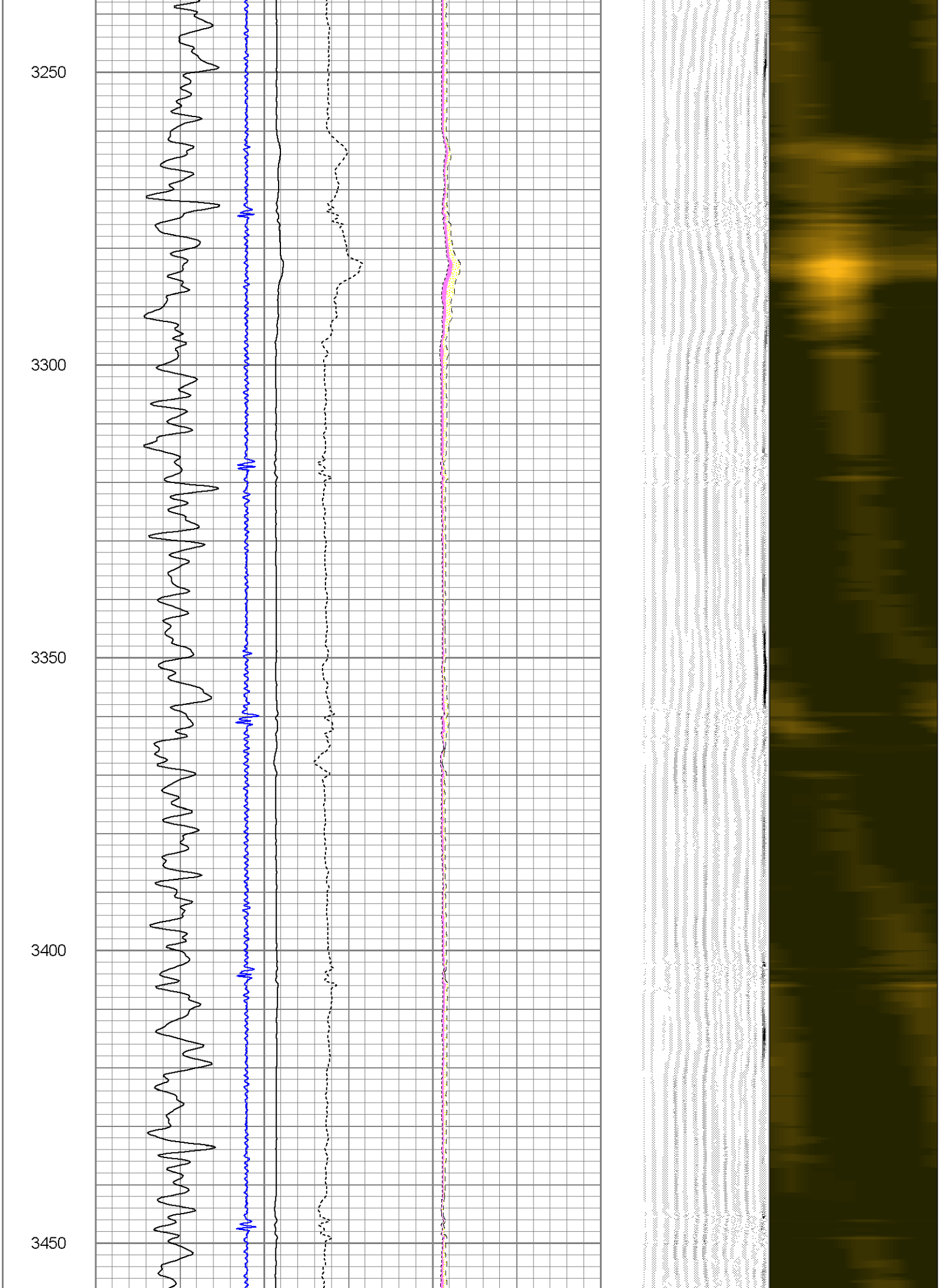
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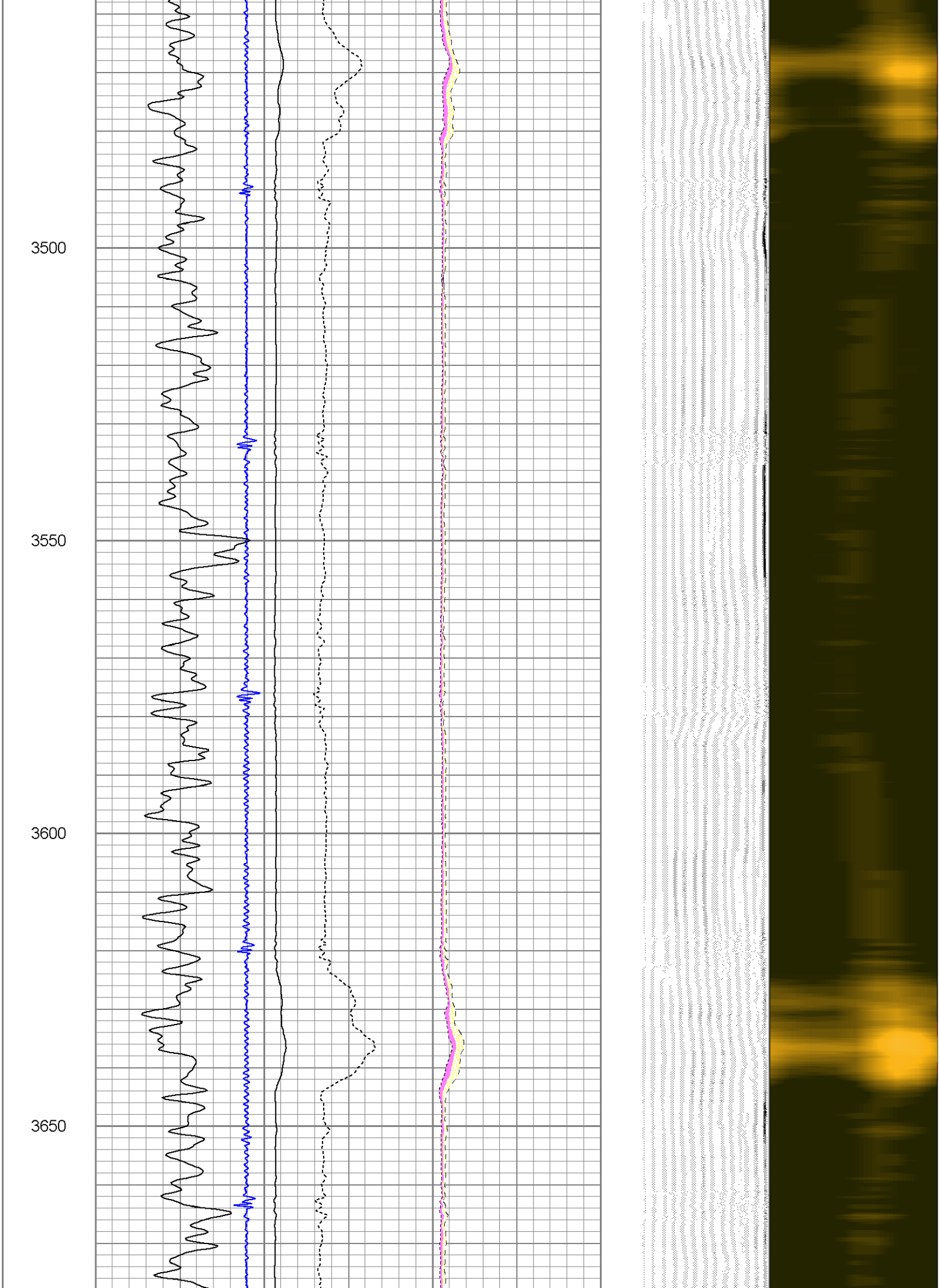
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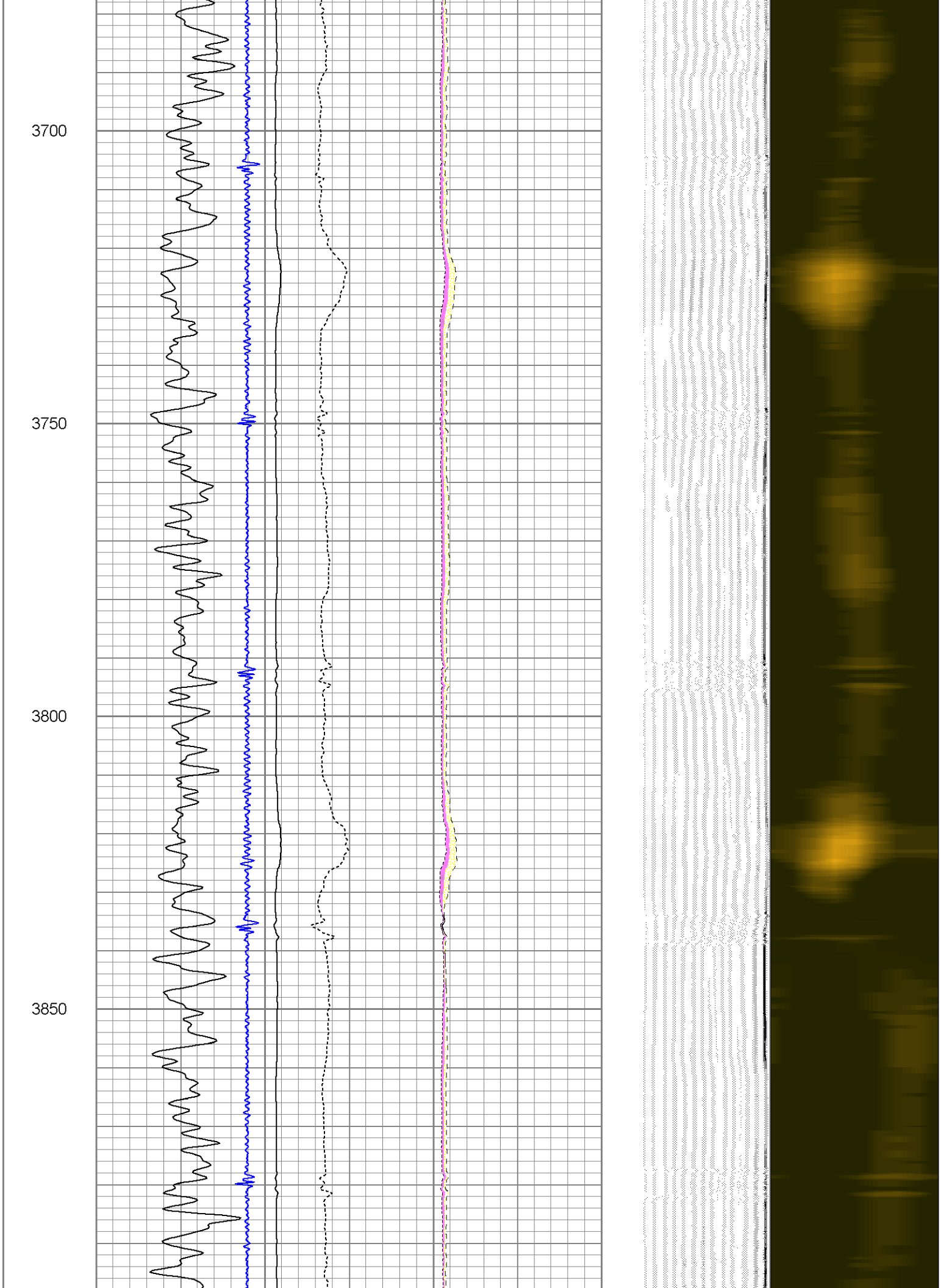
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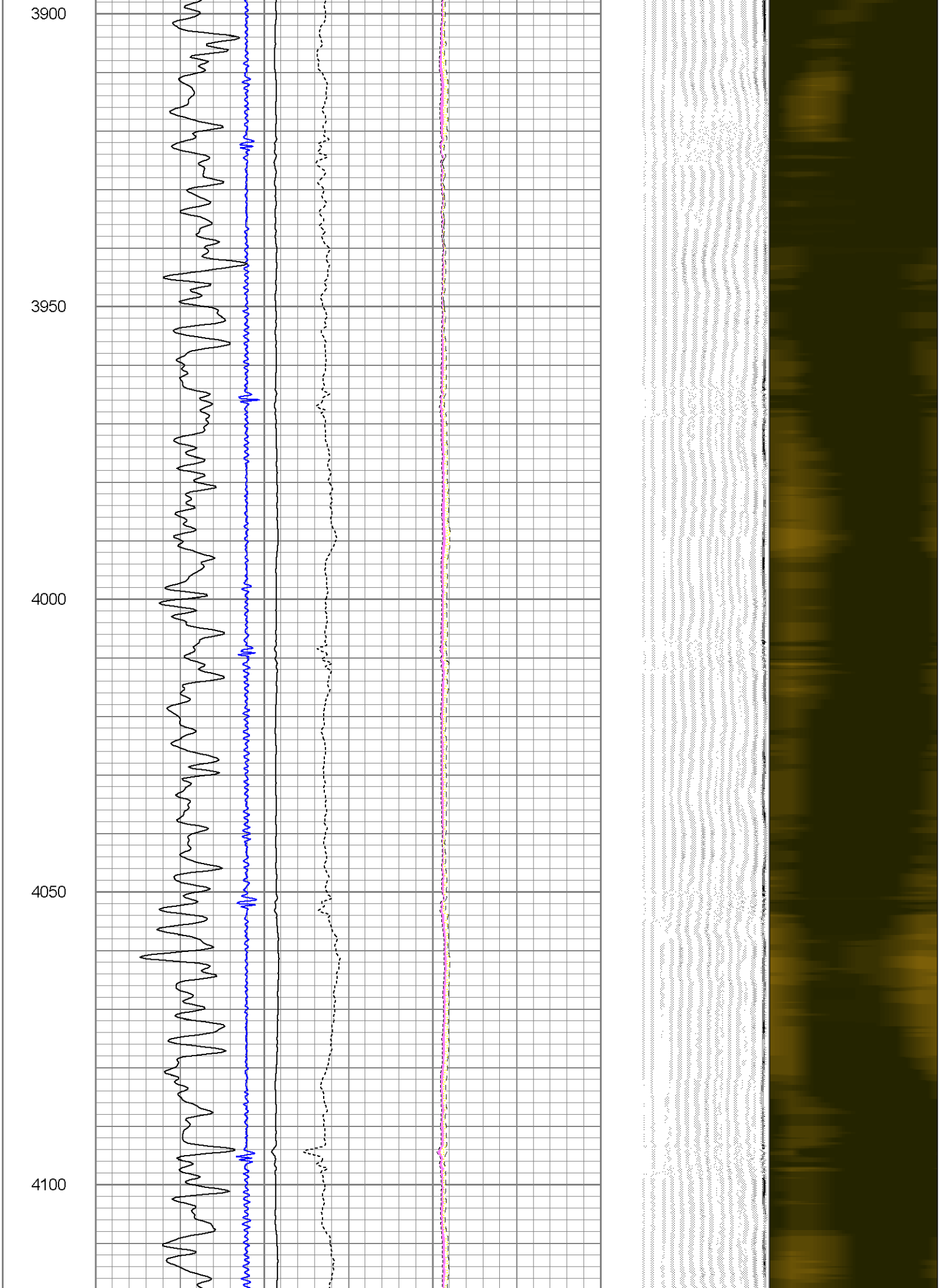
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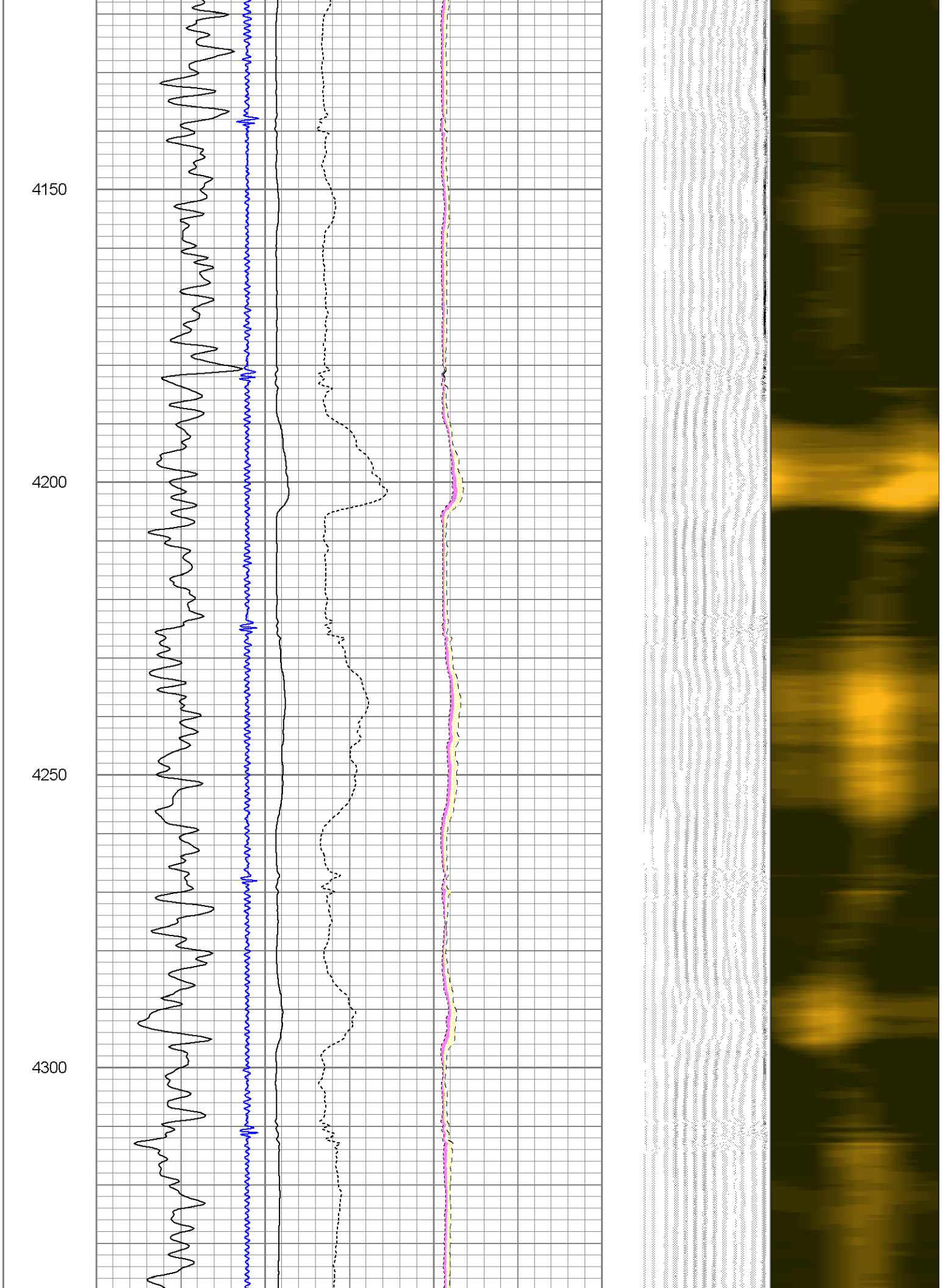
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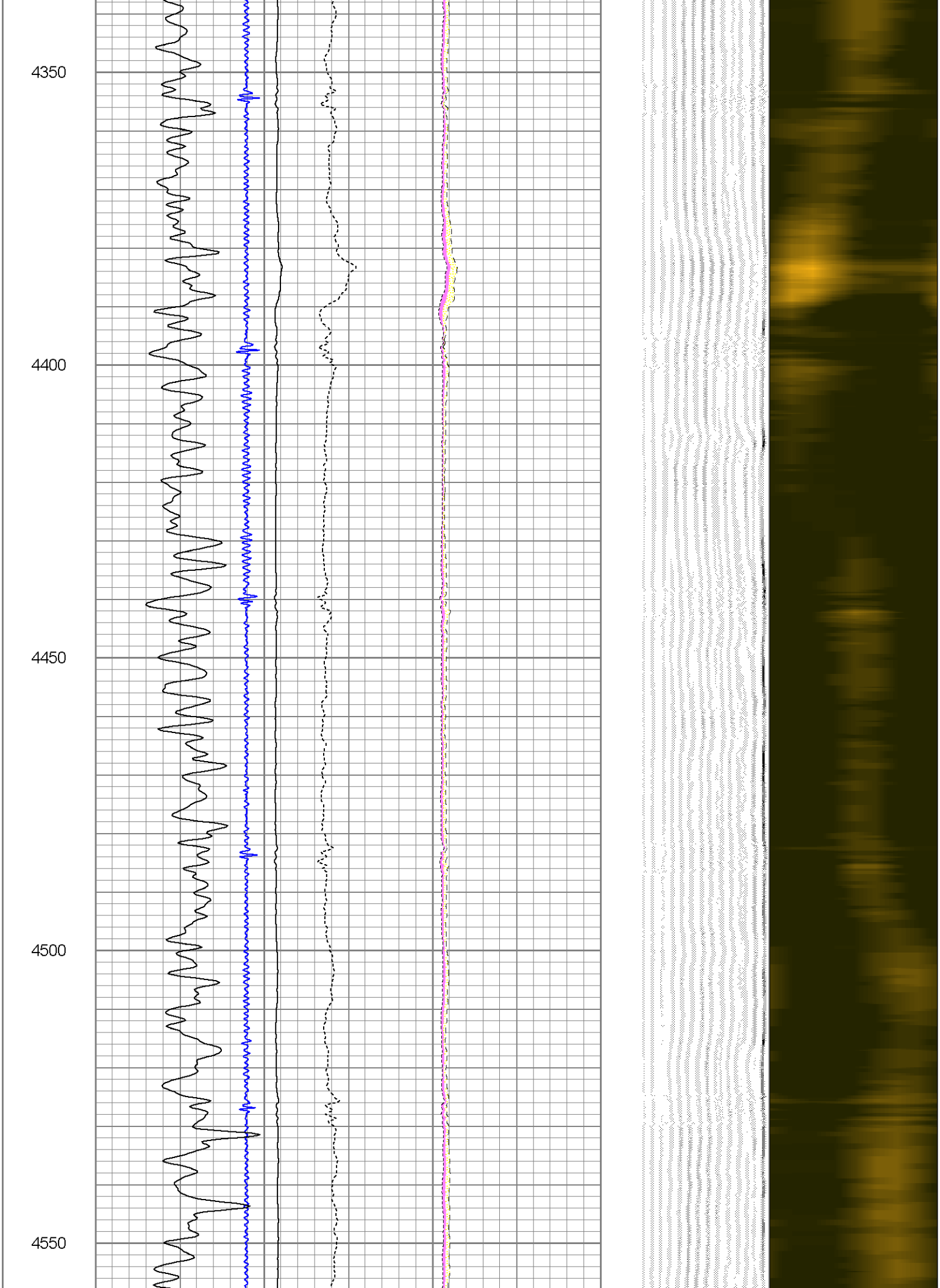
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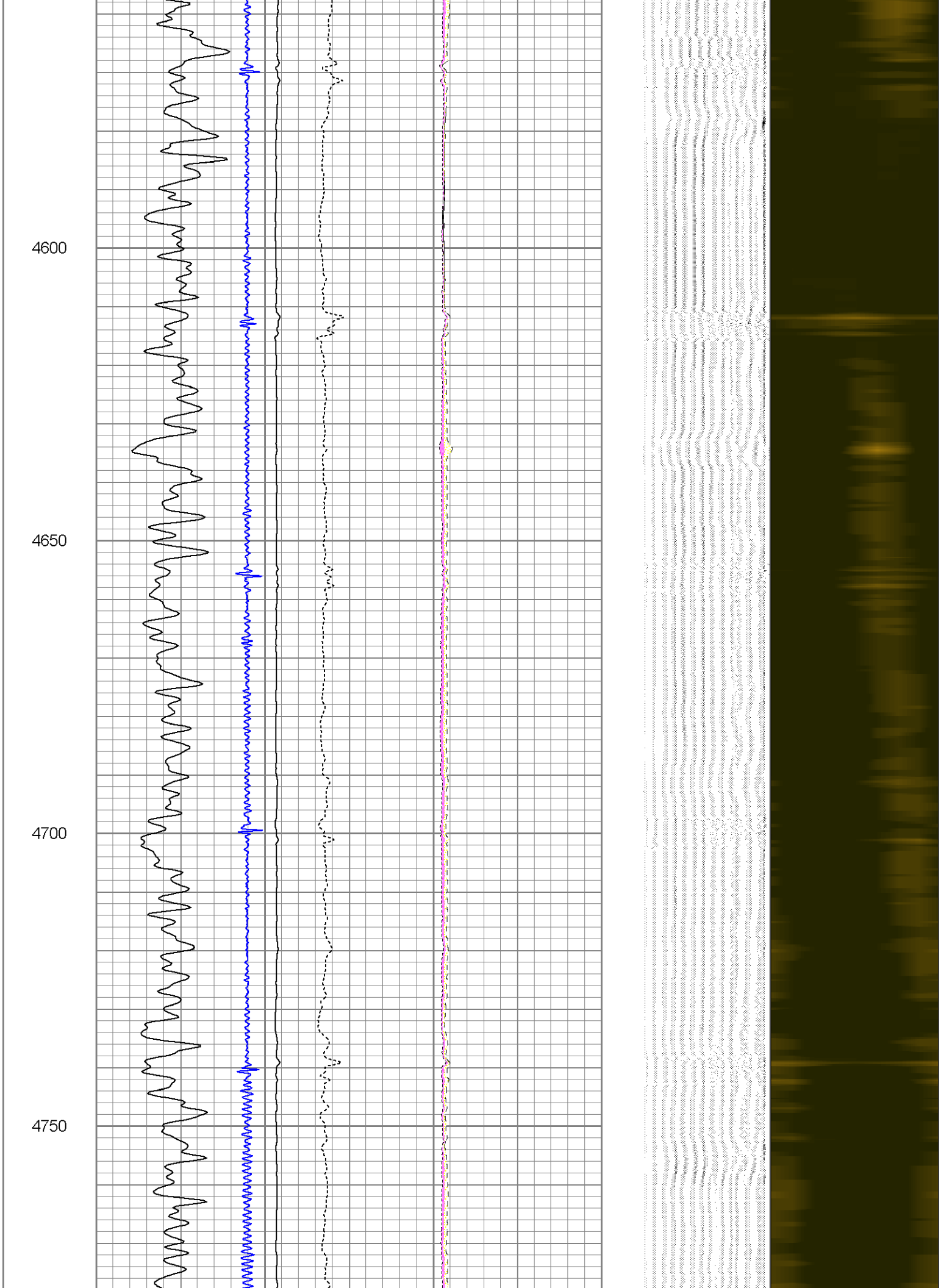
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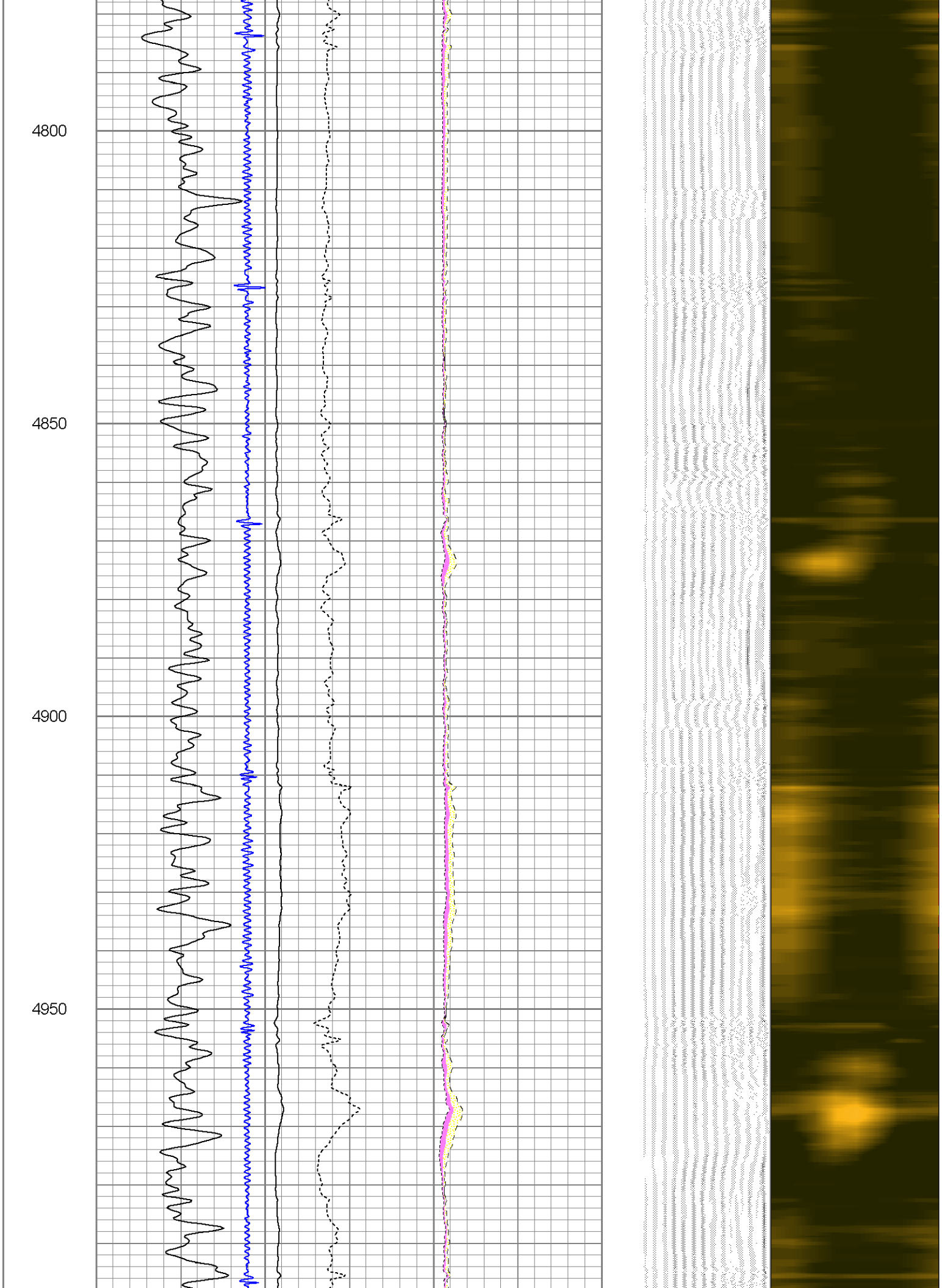
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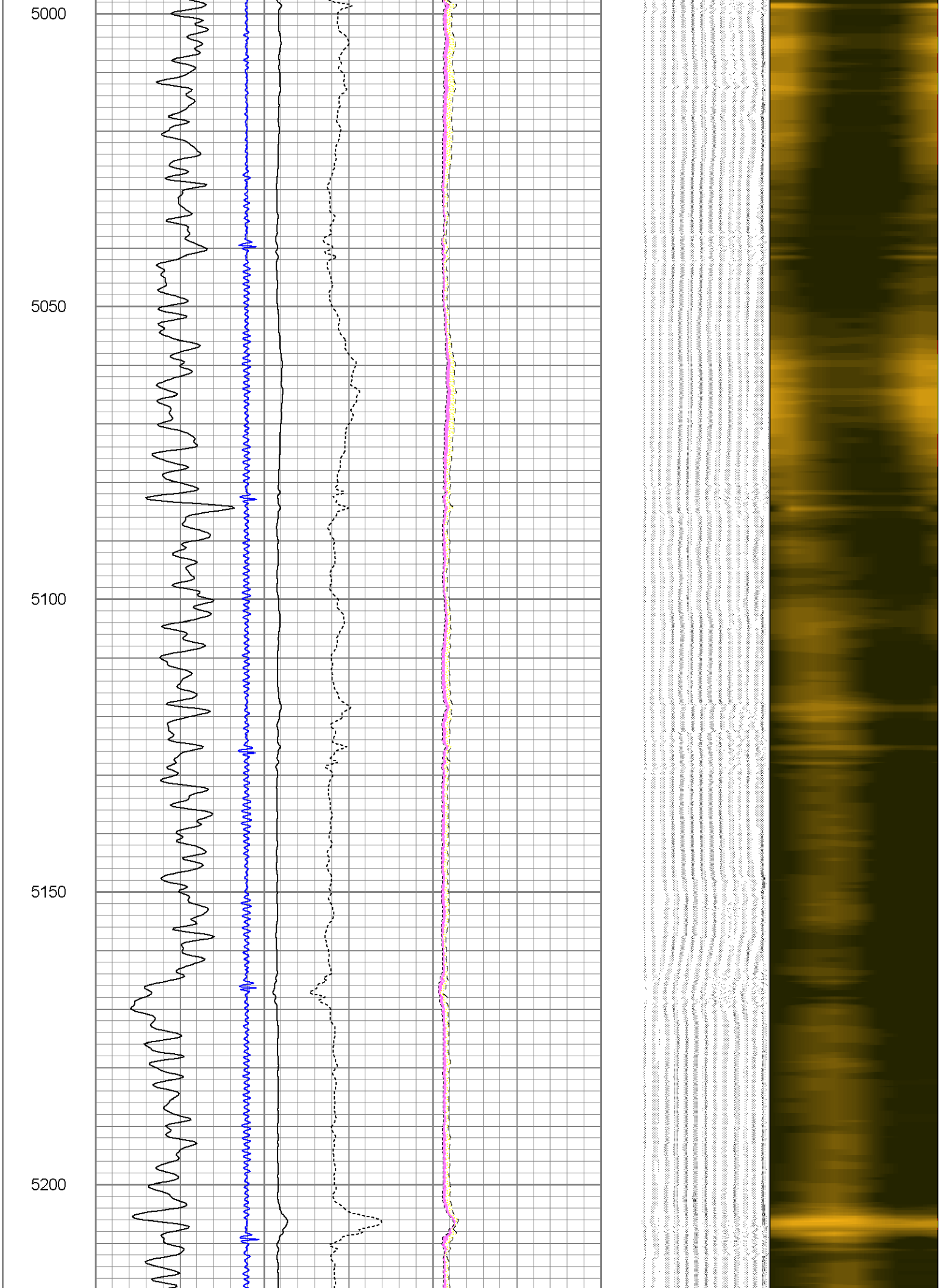
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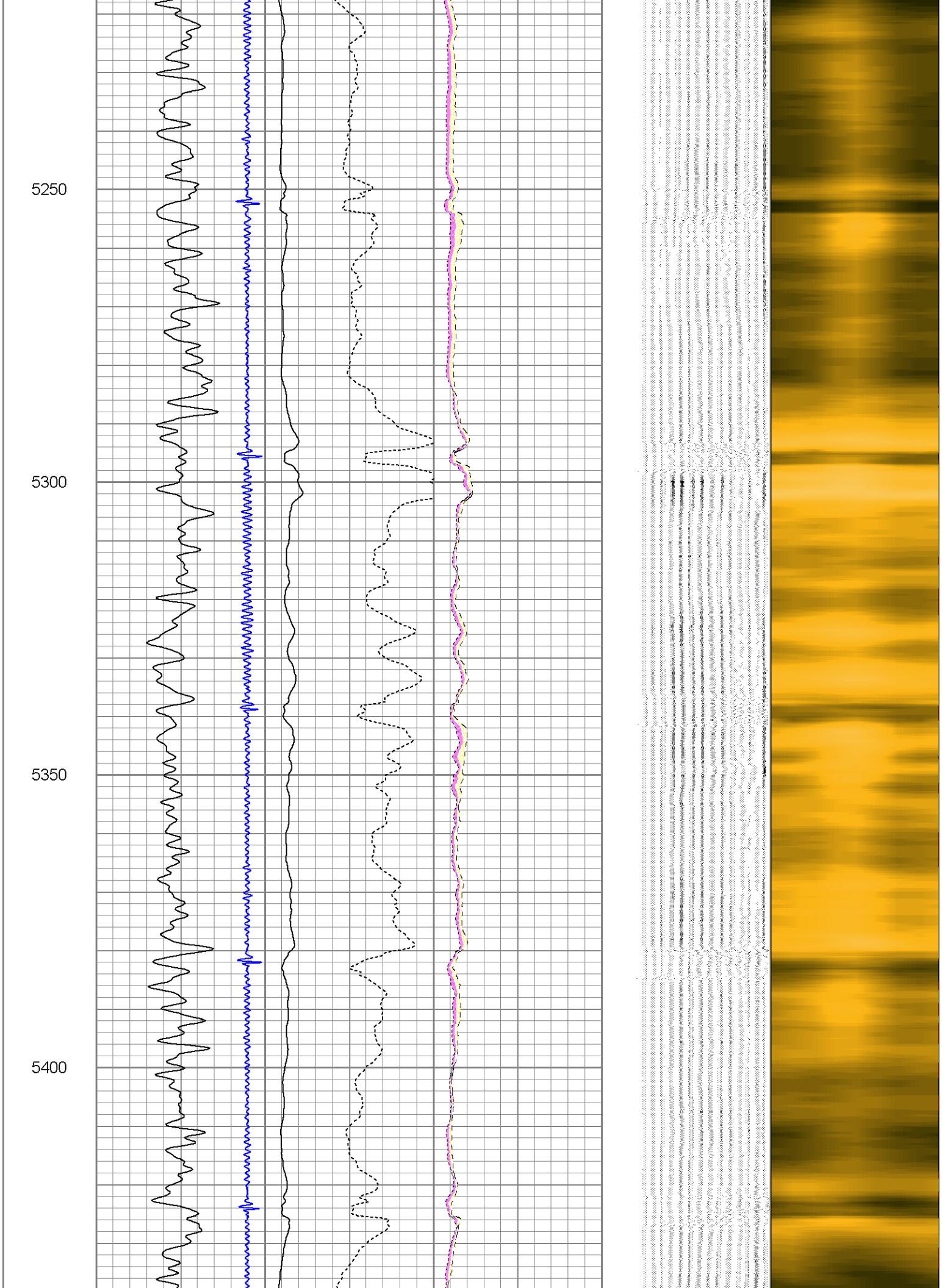
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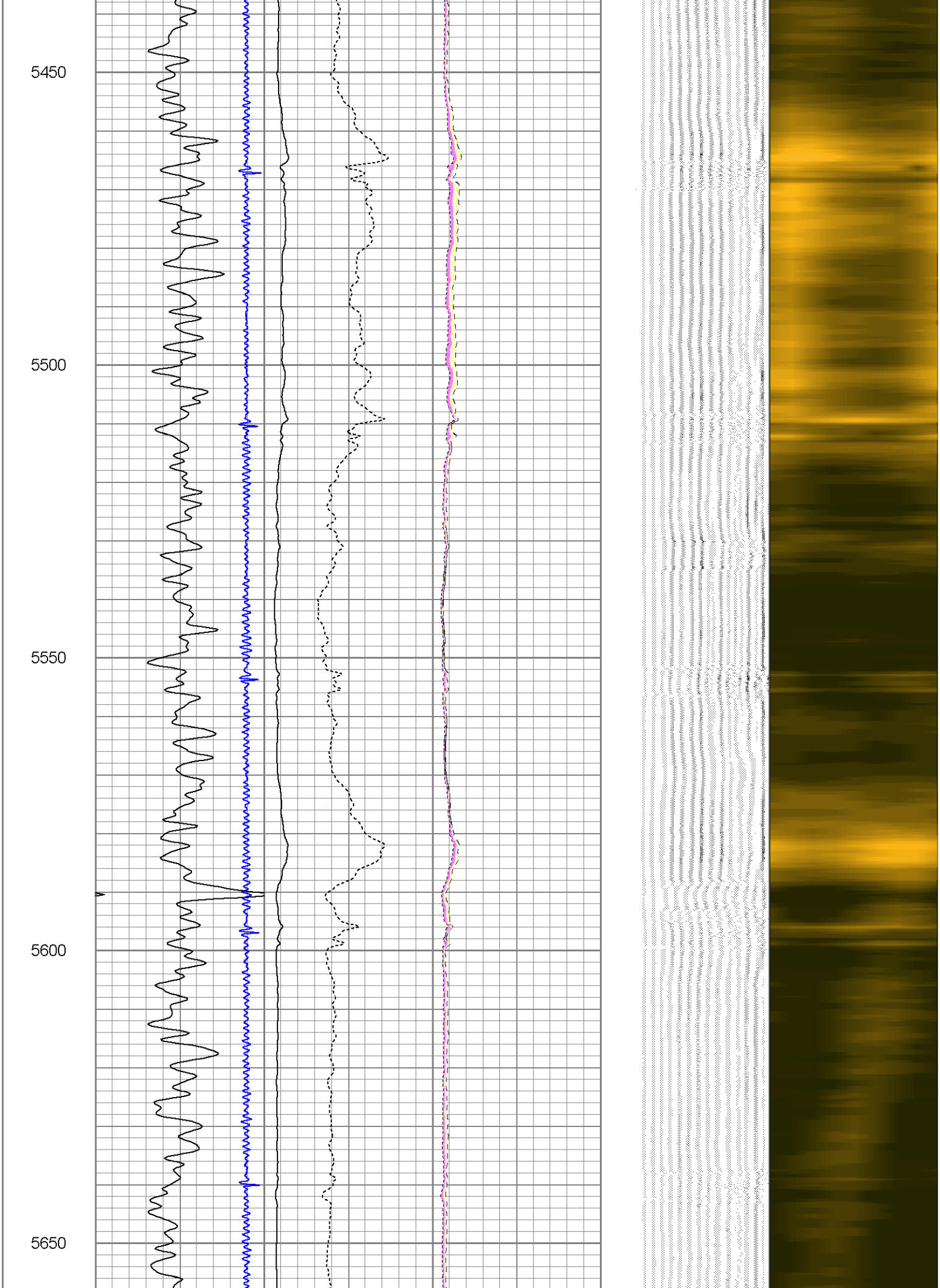
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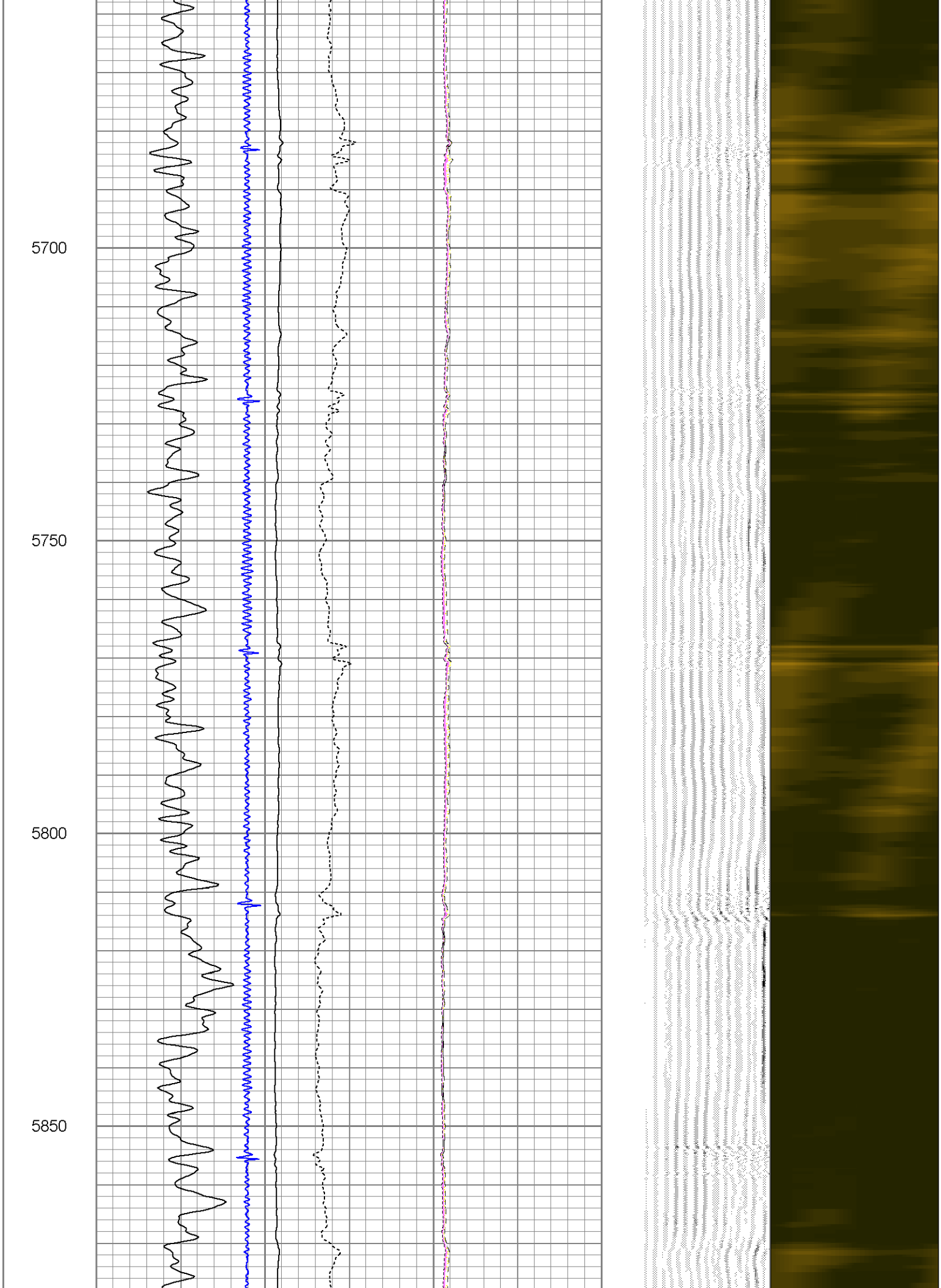
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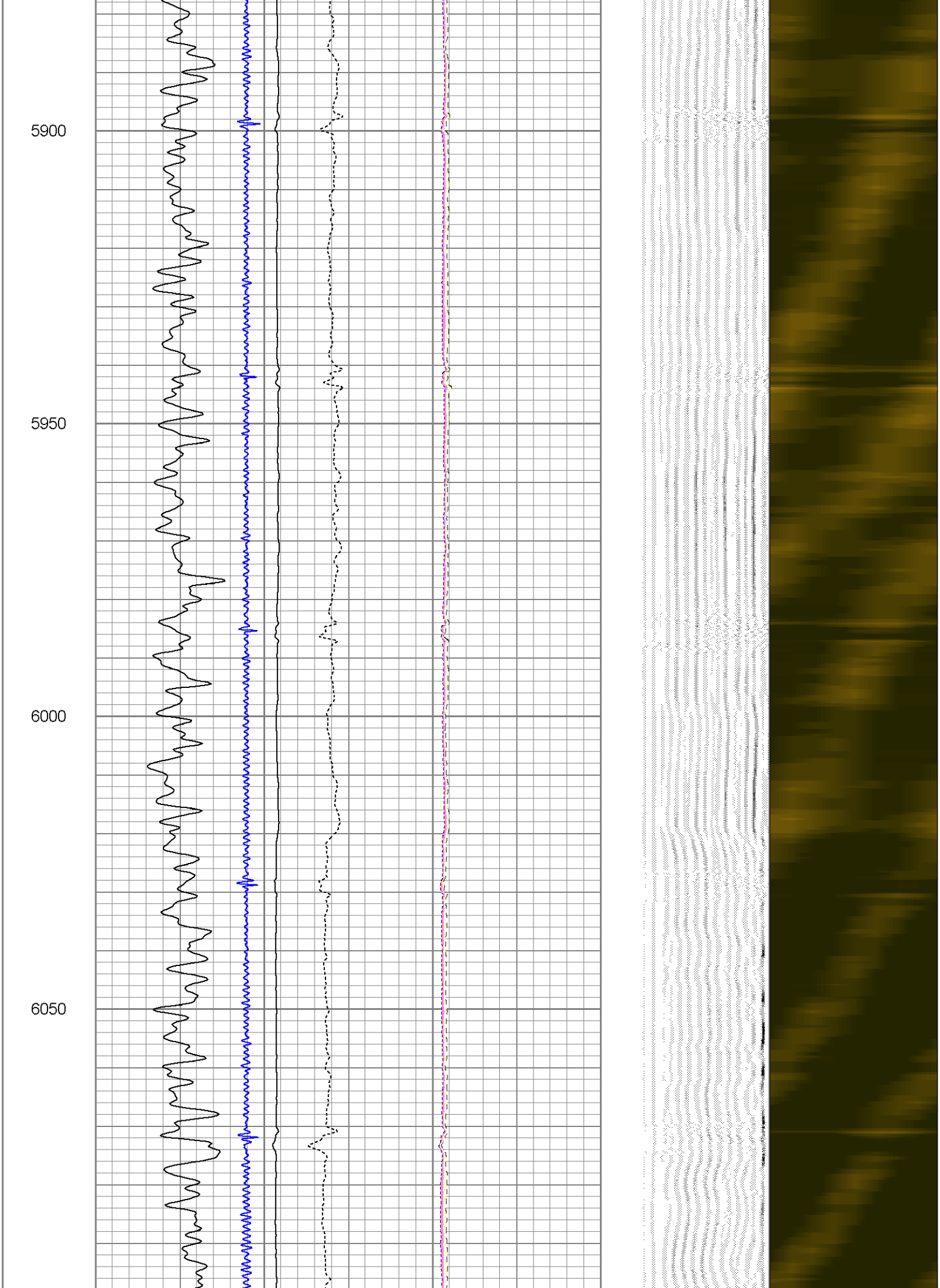
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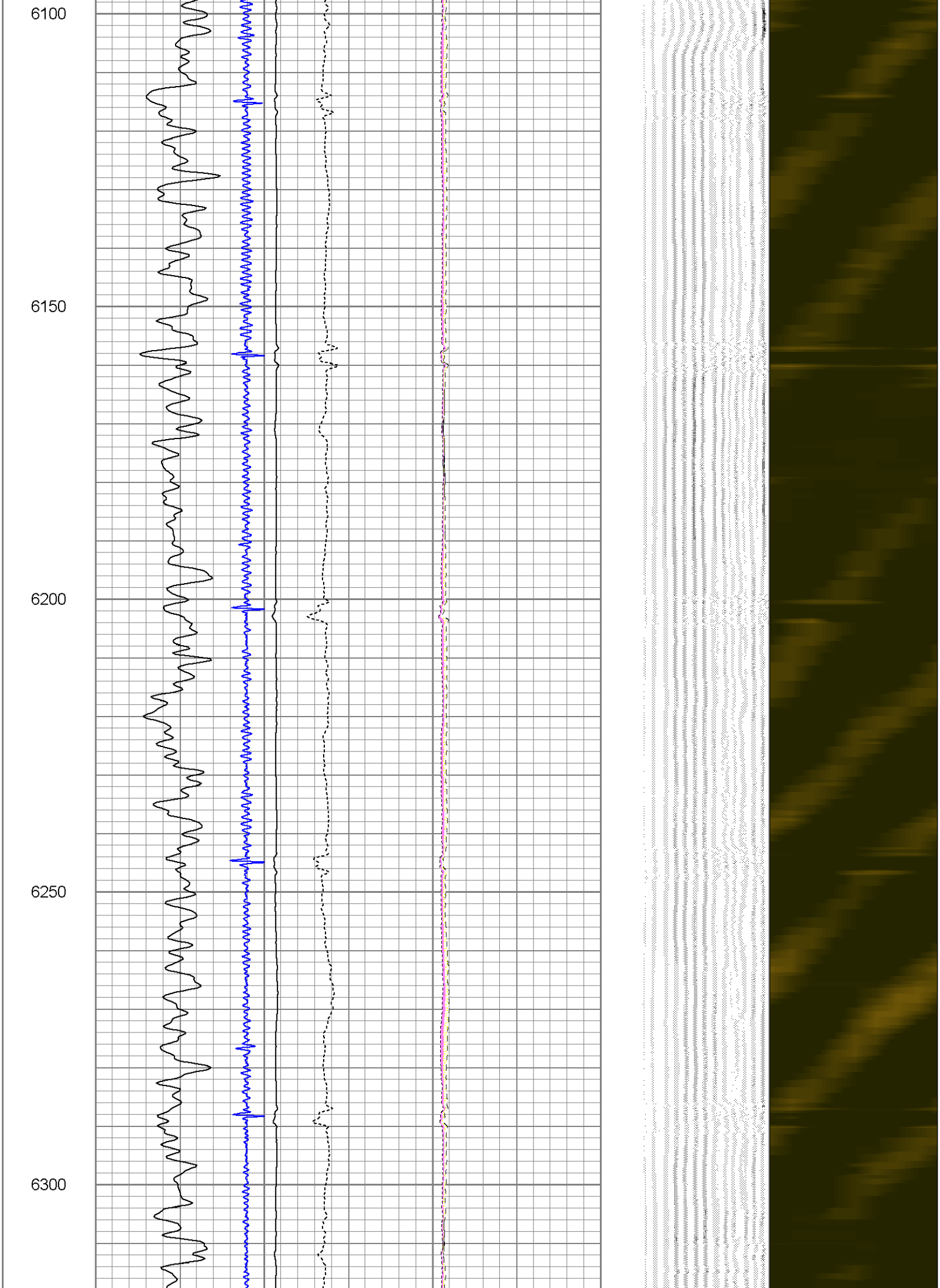
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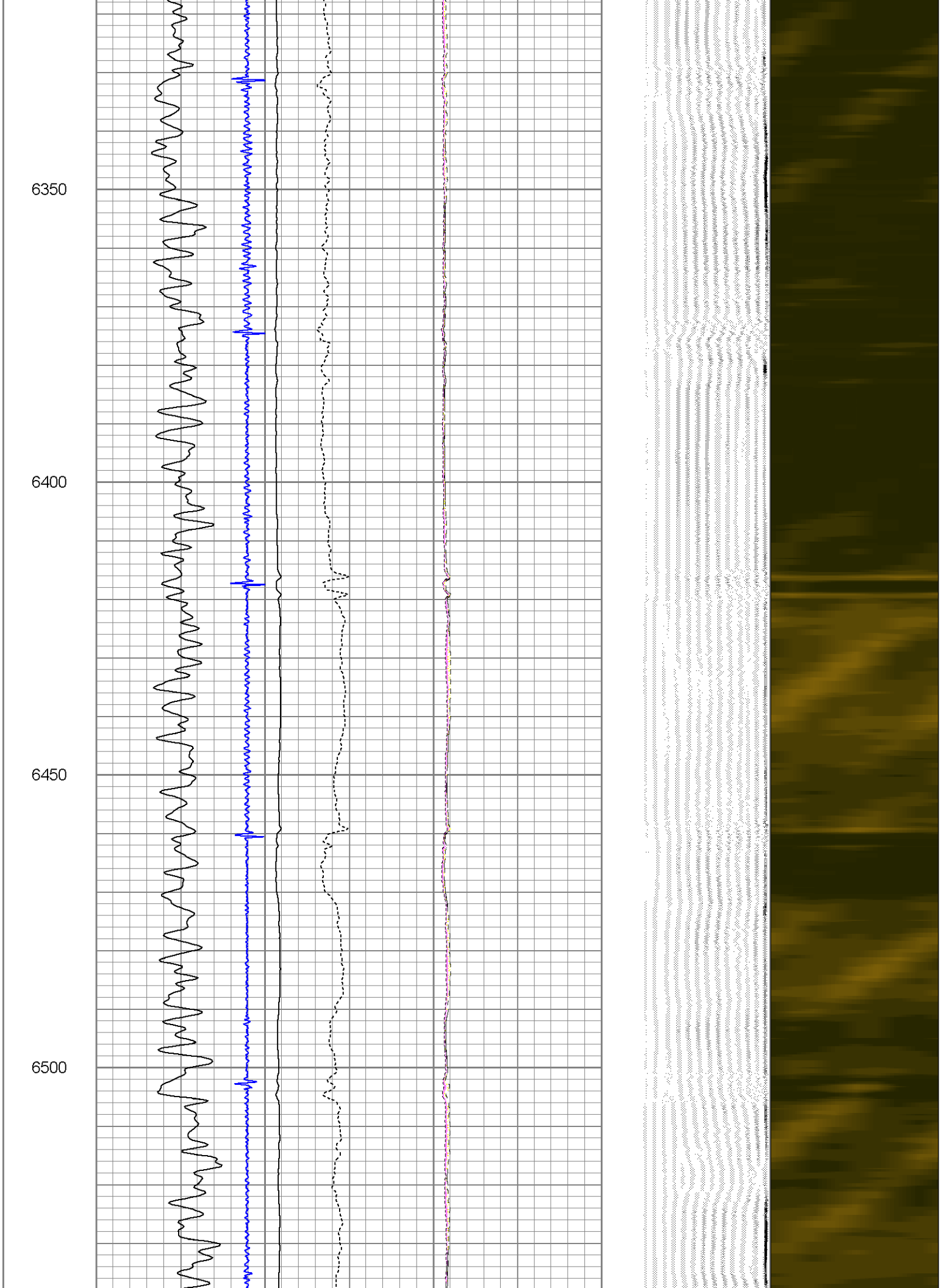
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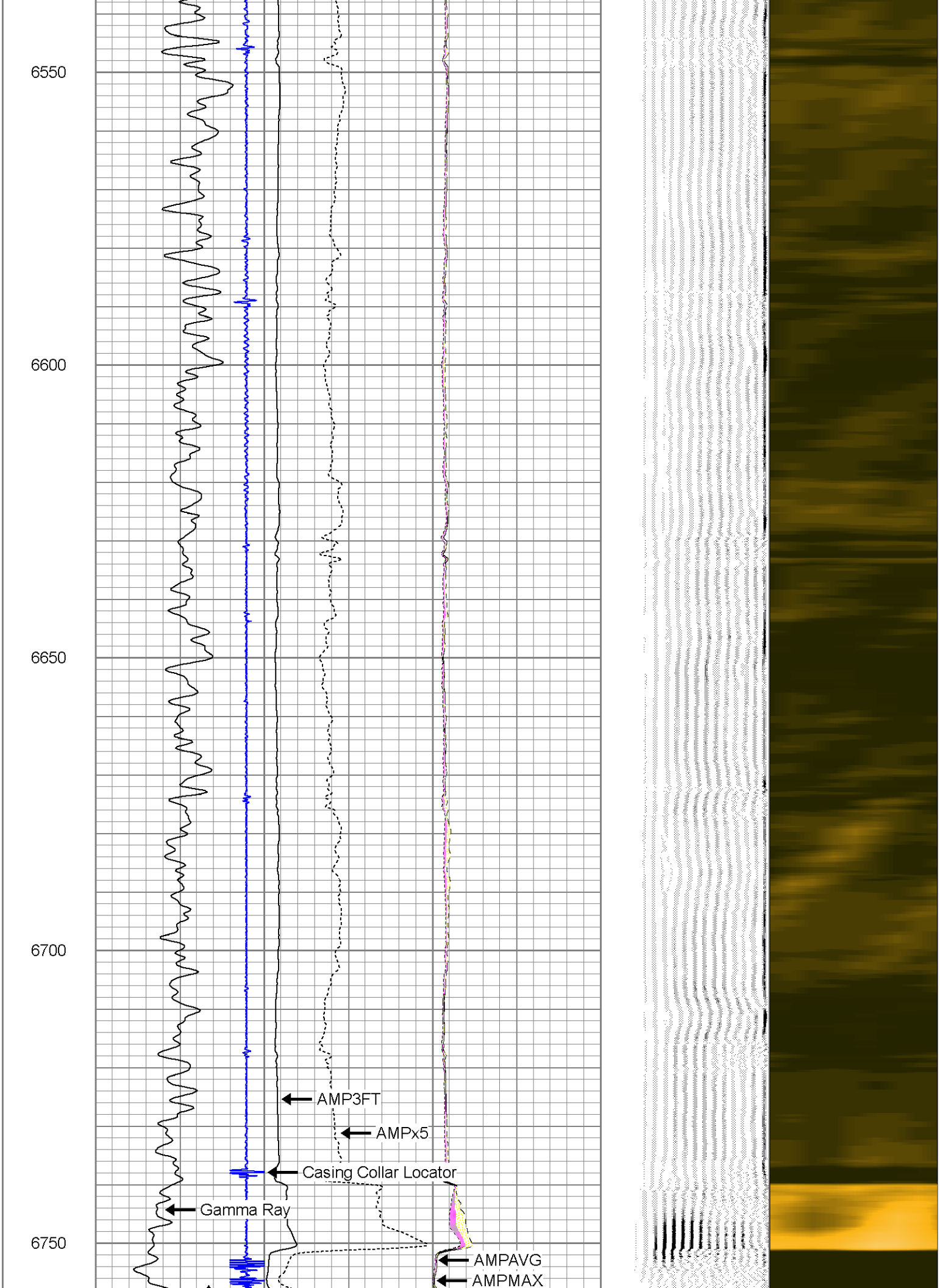
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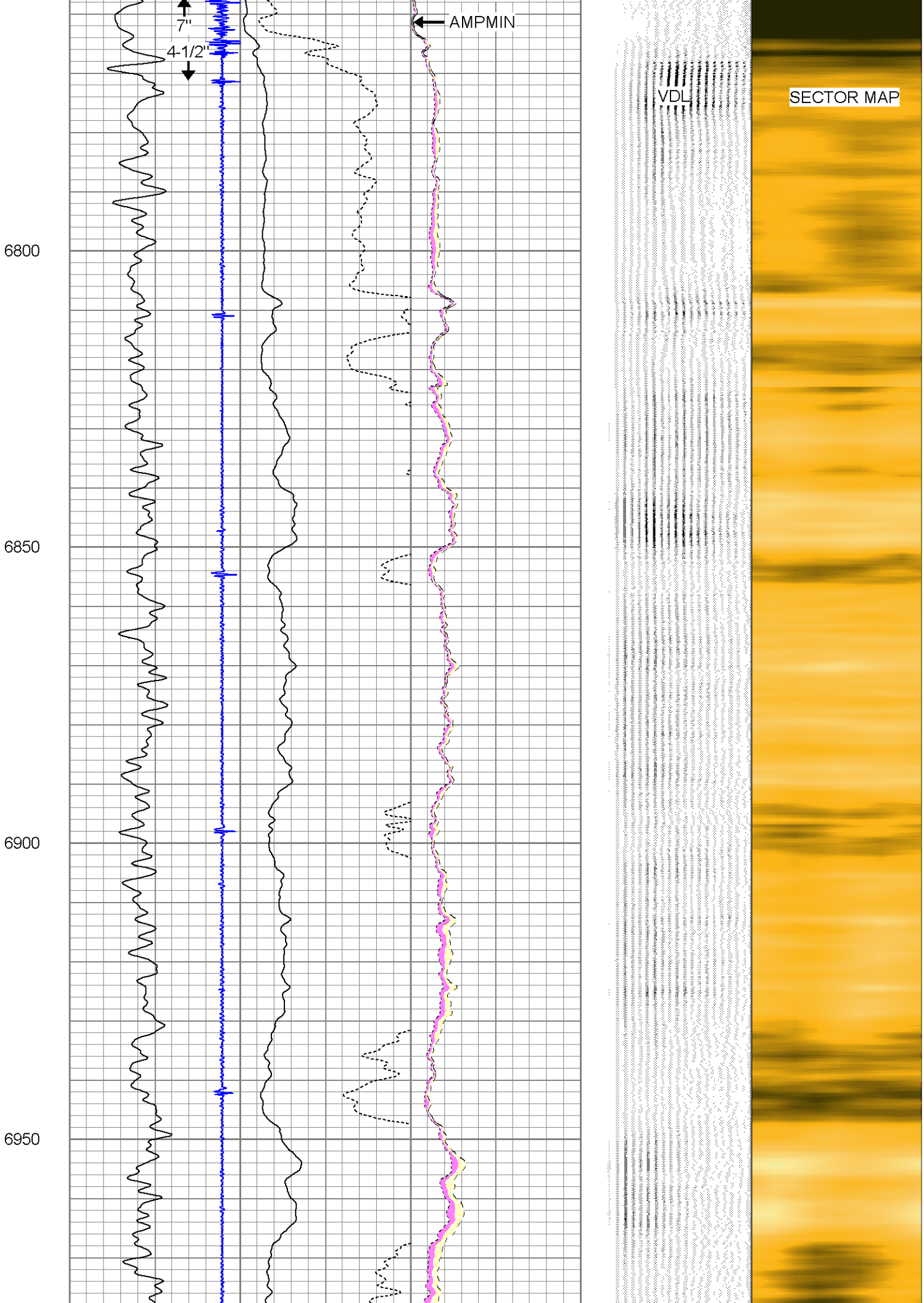
AMPMAX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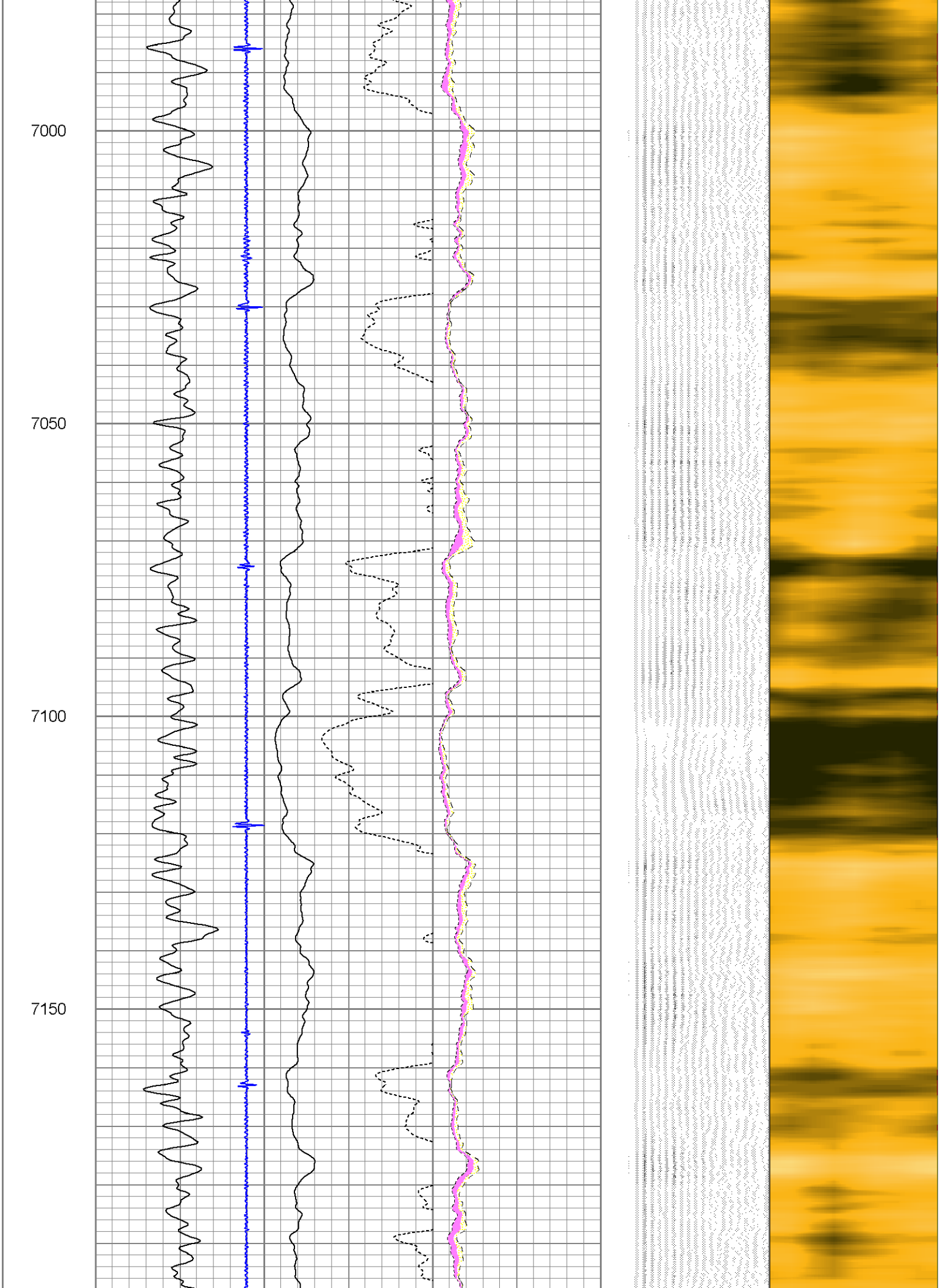
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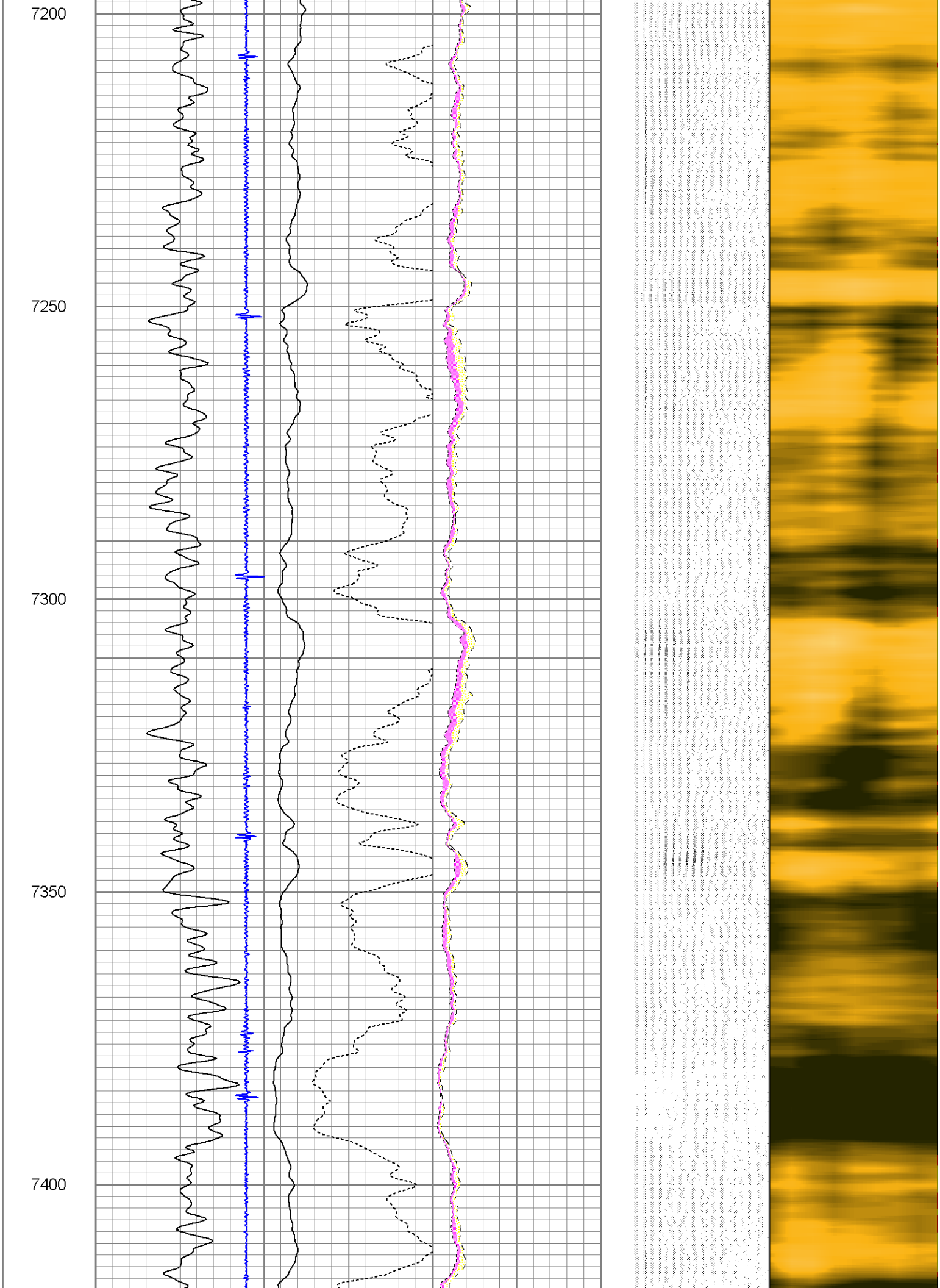
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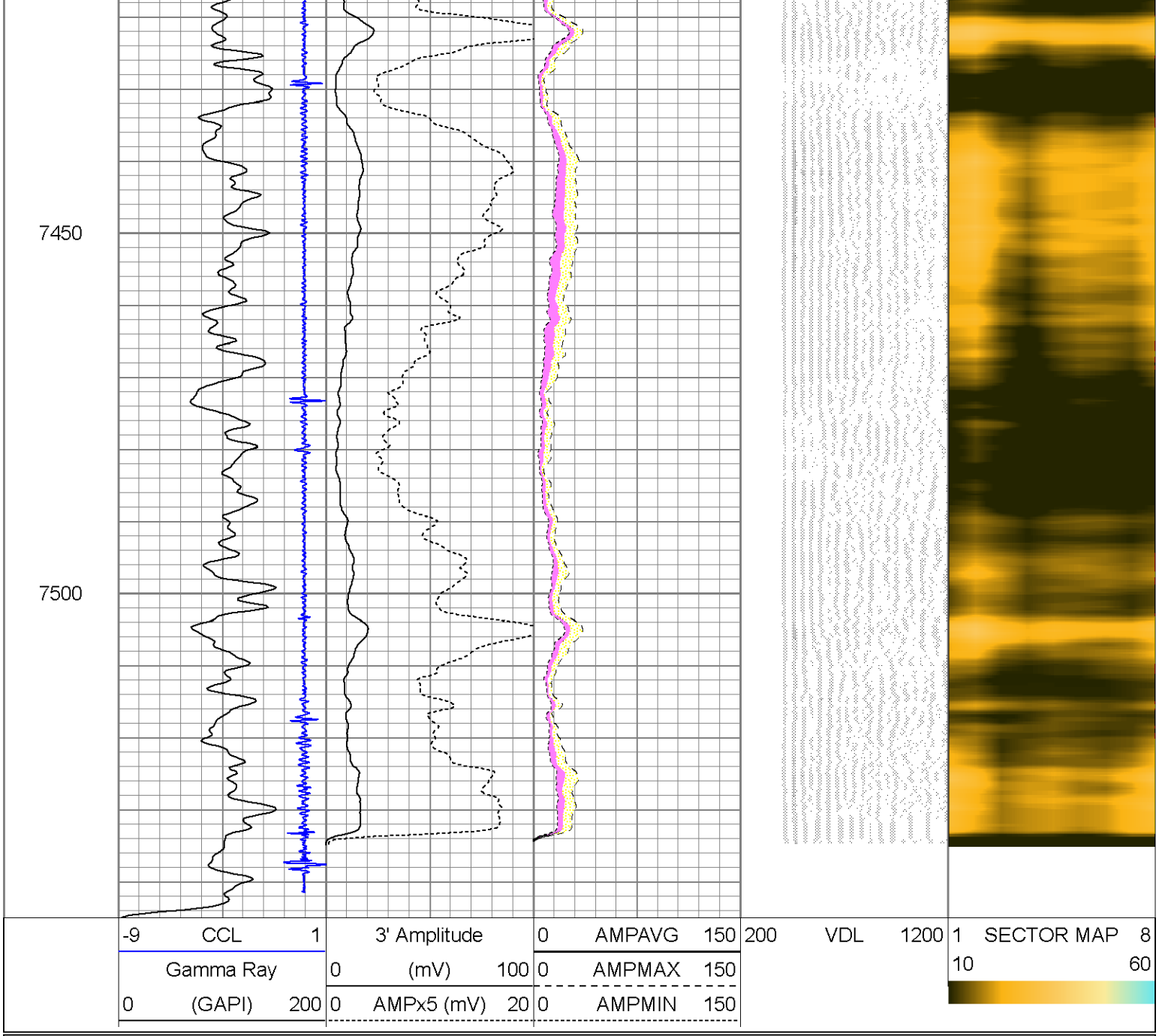


PIONEER

Pioneer Energy Services

NRC #3N-32HZ 0512339291

LOGGED UNDER 2800 PSI
MAIN PASS

Calibration Report

Database File: ncr#3n-32hz_0512339291.db
Dataset Pathname: pass1
Dataset Creation: Sat Aug 16 10:56:33 2014 by Log 7.0 B1

Gamma Ray Calibration Report

Serial Number:	111205	
Tool Model:	Probe	
Performed:	Sun Jun 13 13:33:21 1993	
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:	Base	
Tool Model:	Probe	
Calibration Casing Diameter:	7.000	in
Calibration Depth:	1127.921	ft

Master Calibration, performed Sat Aug 16 10:28:46 2014:

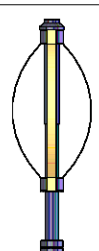
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.013	1.068	1.000	62.165	57.952	0.265
CAL	0.012	0.411				
5'	0.013	1.406	1.000	62.165	43.895	0.448
SUM						
S1	0.012	1.031	0.000	95.000	93.263	-1.162
S2	0.014	1.058	0.000	95.000	90.922	-1.232
S3	0.013	1.131	0.000	95.000	84.996	-1.132
S4	0.013	1.147	0.000	95.000	83.831	-1.123
S5	0.013	1.133	0.000	95.000	84.810	-1.084
S6	0.013	1.121	0.000	95.000	85.778	-1.150
S7	0.014	1.077	0.000	95.000	89.358	-1.210
S8	0.013	1.039	0.000	95.000	92.621	-1.209

Internal Reference Calibration, performed Wed Aug 21 11:08:58 2013:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.012	0.411	1.000	0.000

Air Zero Calibration, performed Mon Dec 09 06:54:41 2013:

	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

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			PTS275	2.83	2.75	

WVF3FT	14.44	RBT-Probe (Base) Probe Radii Bond Tool with Digital Telemetry	8.92	2.75	90.00
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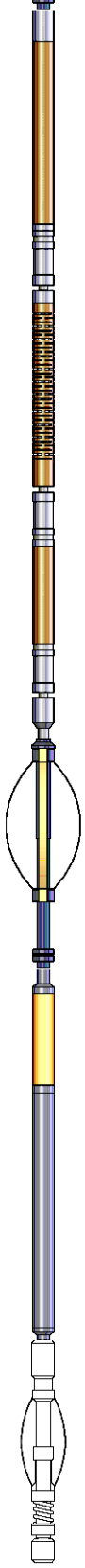
WVFS1	14.44				
WVFS2	14.44				
WVFS3	14.44				
WVFS4	14.44				
WVFS5	14.44				
WVFS6	14.44				
WVFS7	14.44				
WVFS8	14.44				
WVF5FT	13.35				
		PTS275	2.83	2.75	
CCL	6.36				
		GR_CCL-Probe (111205) Probe Gamma CCL	4.54	2.75	100.00
GR	3.63				
		2.75 2 3/4" Tekco Adjustable Centralizer	2.73	2.75	25.00



Dataset:	ncr#3n-32hz_0512339291.db: field/well/run1/pass1
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Total Weight:	215.00 lb
O.D.	2.75 in