PIONEER

Pioneer Energy Services

RADIAL SECTOR BOND LOG WITH GAMMA RAY

Company ENCANA OIL & GAS (USA) INC
Well GRANT HURT 1G-14H G268
Field WATTENBERG
County WELD
State CO

Company **ENCANA OIL & GAS (USA) INC**
Well **GRANT HURT 1G-14H G268**
Field **WATTENBERG**
County **WELD** State **CO**

Location: API # : 05123380940000
SHL: 2449' FNL & 1539' FEL SWNE
LAT: 40.13928
LONG: -104.96652
SEC 14 TWP 2N RGE 68W

Other Services: None

Permanent Datum	GL	Elevation	4888
Log Measured From	KB		
Drilling Measured From	KB		

Elevation	
K.B.	4918
D.F.	4918
G.L.	4888

Date of Service	SEPTEMBER 22, 2014
Run Number	ONE
Depth Driller or PBTD	14535
Depth Logger	7825
Bottom Log Interval	7824
Top Log Interval	SURFACE
Open Hole Size	8+7/8"
Type Fluid	WBM
Fluid Level	30
Fluid Density	11.4 PPG
Max. Recorded Temperature	214 F
Max. Wellhead Pressure	0
Wellhead Connection	PACKOFF
Estimated Cement Top	102
Unit Number	75
Wireline Size	9/32"
Location	FT MORGAN, CO
Recorded By	SCHUMAN
Witnessed By	MR. ROBERT ESCOJEDA

	Size	Wt/Ft	Top	Bottom
Tubing Record				
Surface Casing	9+5/8"	40#	SURFACE	865
Production Casing	7"	26#	SURFACE	7844
Liner Record	4+1/2"	13.5#	SURFACE	NA

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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# 2-280041
PATTERSON UTI RIG 326

THANK YOU FOR USING PIONEER Energy SERVICES

Your Pioneer Energy Services Crew	Tool Data - Services	Serial Number
Engineer: Shaun	Sector CBL	070132
Operator: Igor	GR	110246
Operator: Angelo		
Operator: Marcus		

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			PTS275	2.83	2.75	
WVF3FT	15.60		RBT-Probe275 (111205) Probe Radial Bond Digital	8.92	2.75	100.00
WVFCAL	15.60					
WVFS1	15.60					
WVFS2	15.60					
WVFS3	15.60					
WVFS4	15.60					
WVFS5	15.60					
WVFS6	15.60					
WVFS7	15.60					
WVFS8	15.60					
WVF5FT	14.60					
			PTS275	2.83	2.75	
CCL	7.61					
			GR_CCL-Probe (11205) Probe Gamma CCL	4.54	2.75	100.00
GR	4.88					
			2.75 2 3/4" Tekco Adjustable Centralizer	2.73	2.75	25.00
			TEMP-1.375TEMP (0001) Temperature Tool	1.25	1.38	30.00
TEMP	0.08					

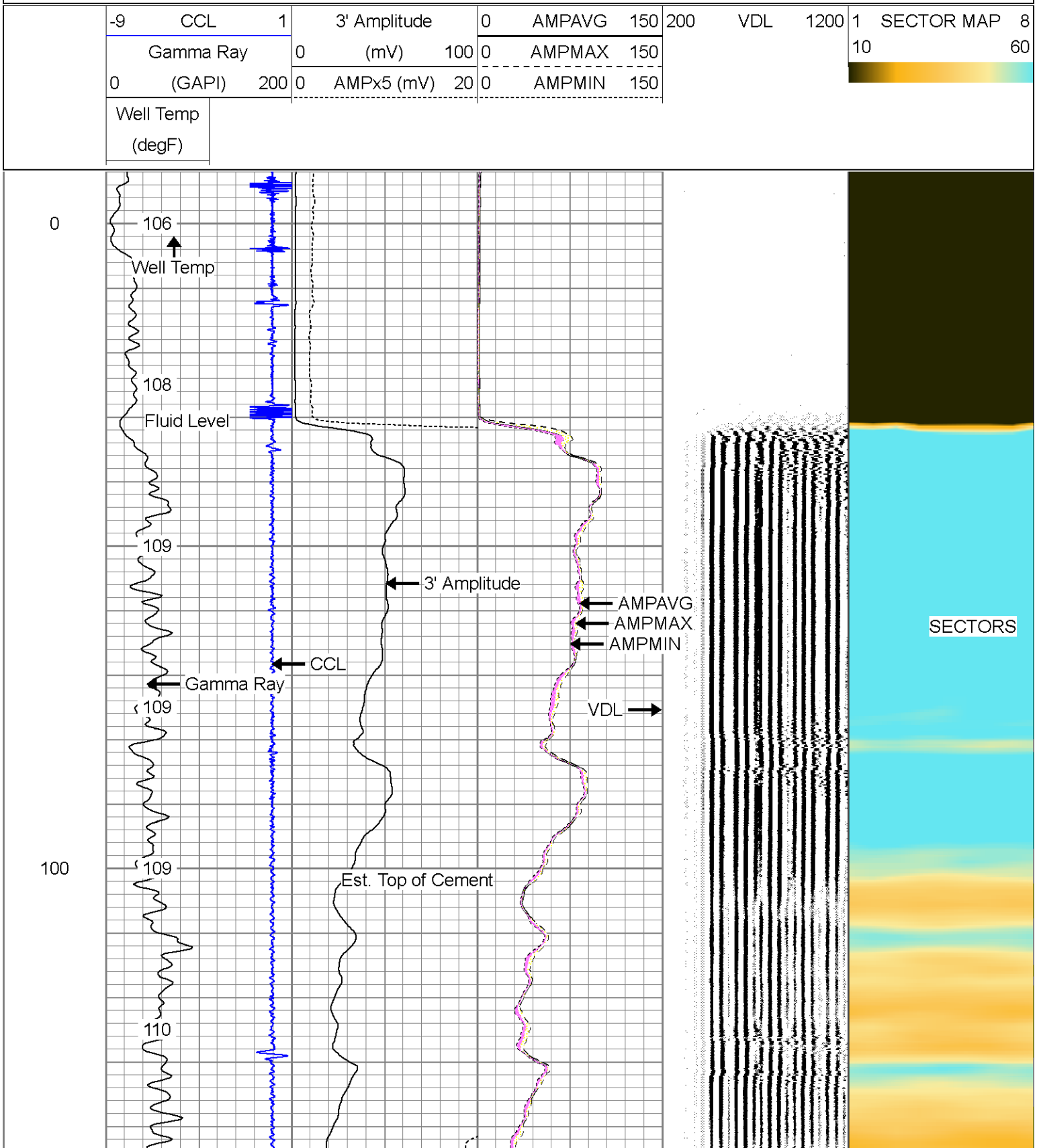
Dataset: grant hurt 1g-14h g268_rbl.db: field/well/rbl/pass1
Total Length: 23.10 ft
Total Weight: 255.00 lb
O.D. 2.75 in

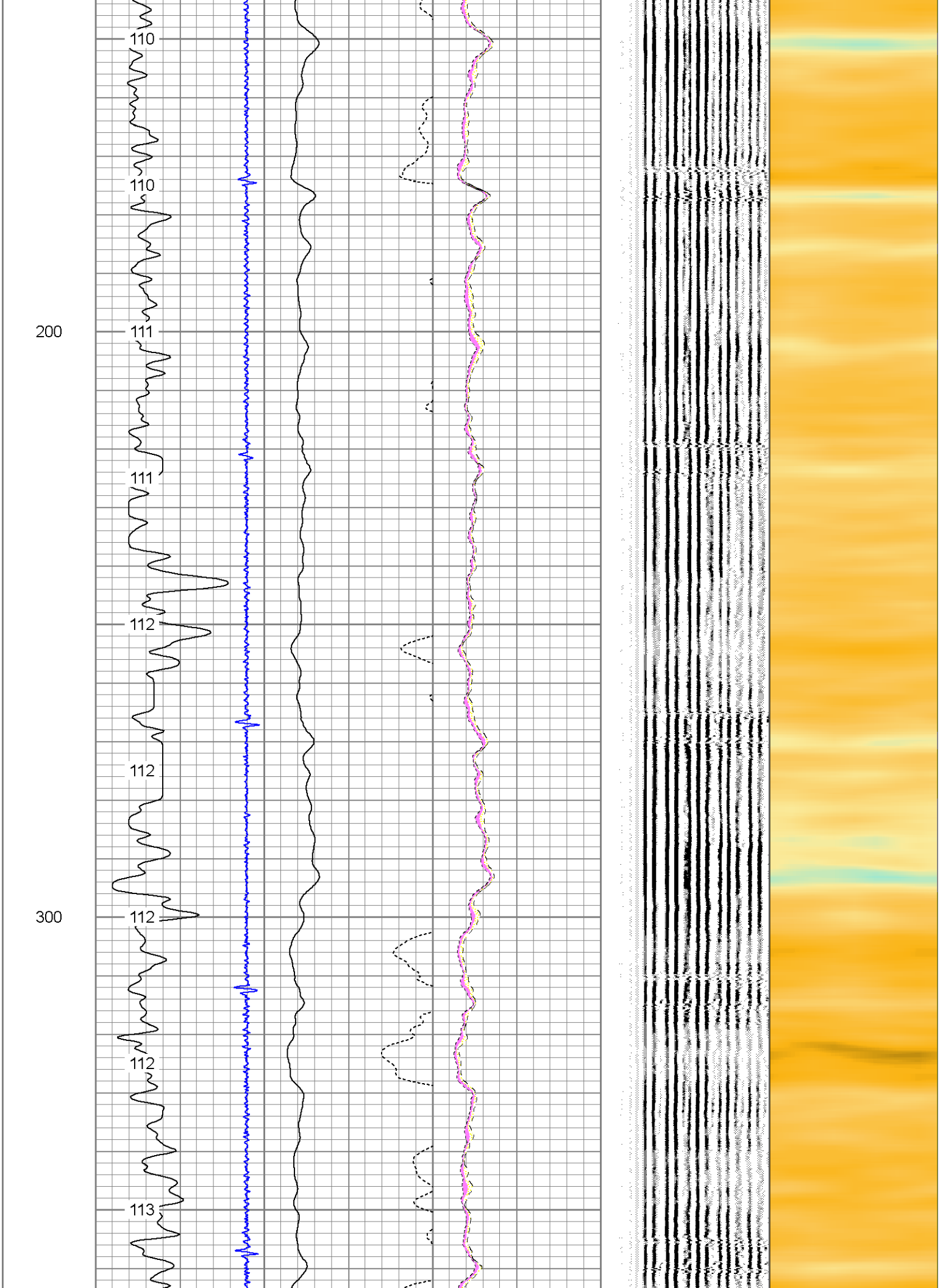
MAIN PASS

Logged with 0 PSI applied at surface.

PIONEER
Pioneer Energy Services

Database File:	grant hurt 1g-14h g268_rbl.db
Dataset Pathname:	rbl/pass1.1
Presentation Format:	scbl02
Dataset Creation:	Mon Sep 22 16:35:41 2014 by Calc 7.0 B1
Charted by:	Depth in Feet scaled 1:240

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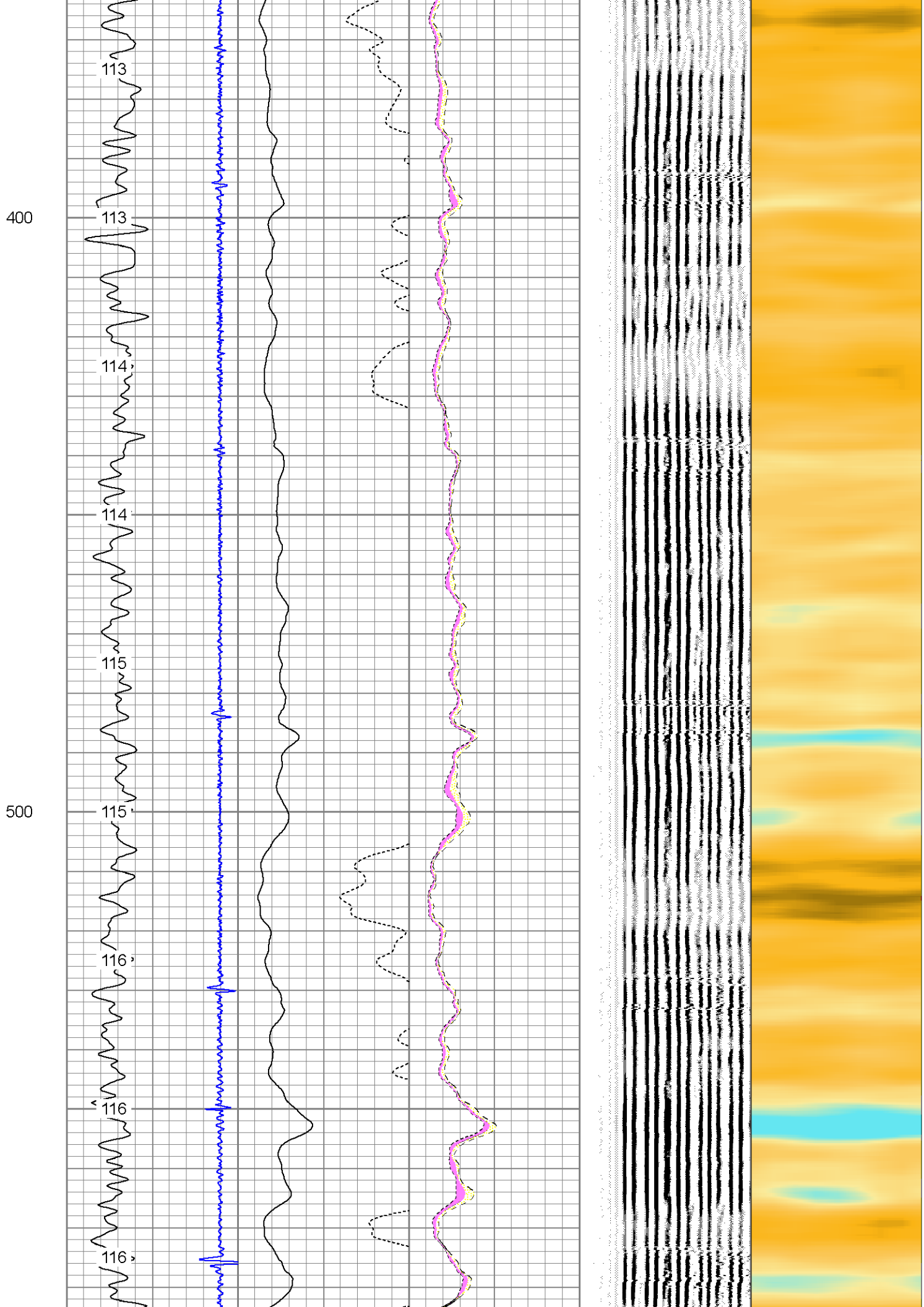
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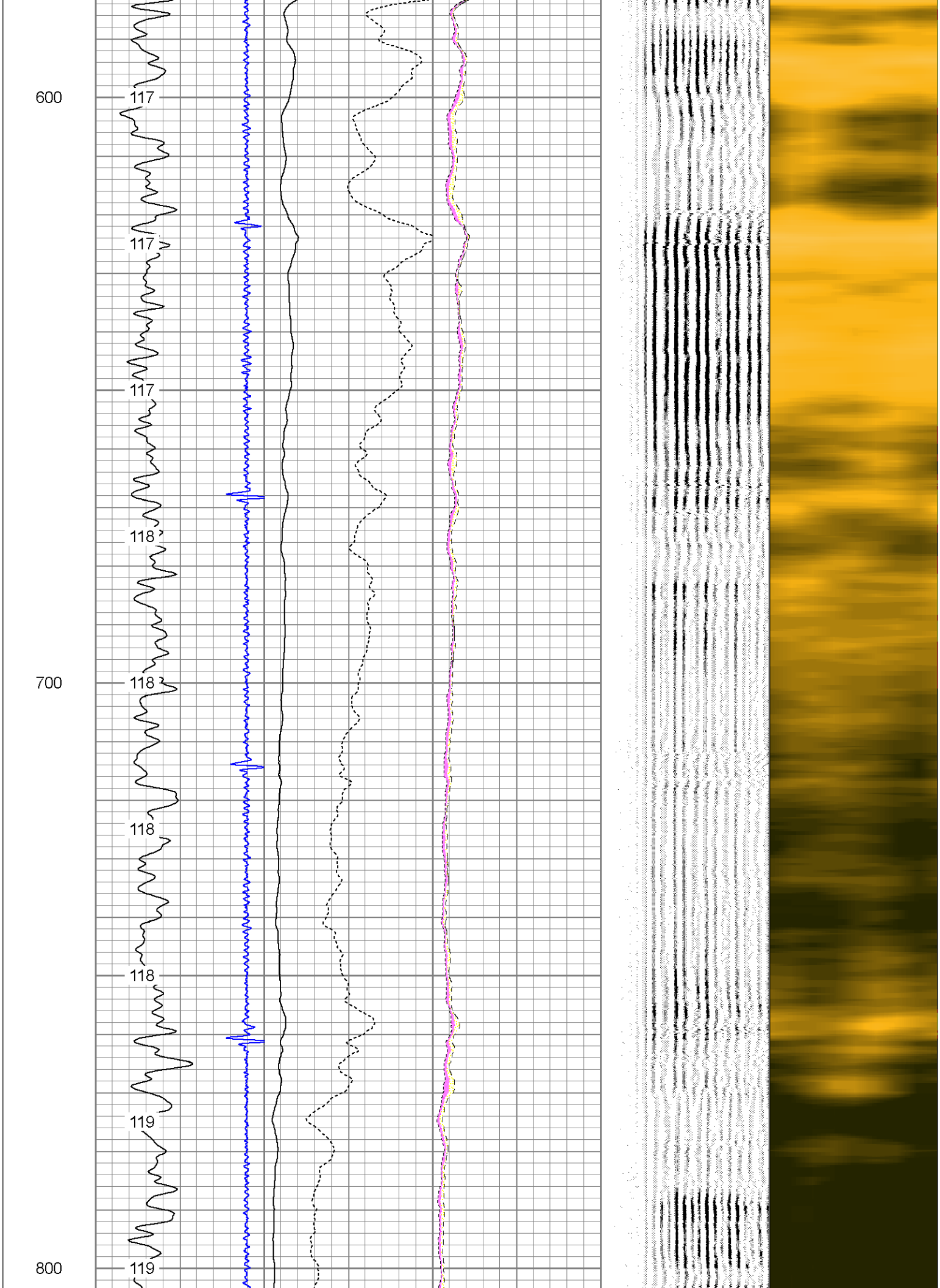
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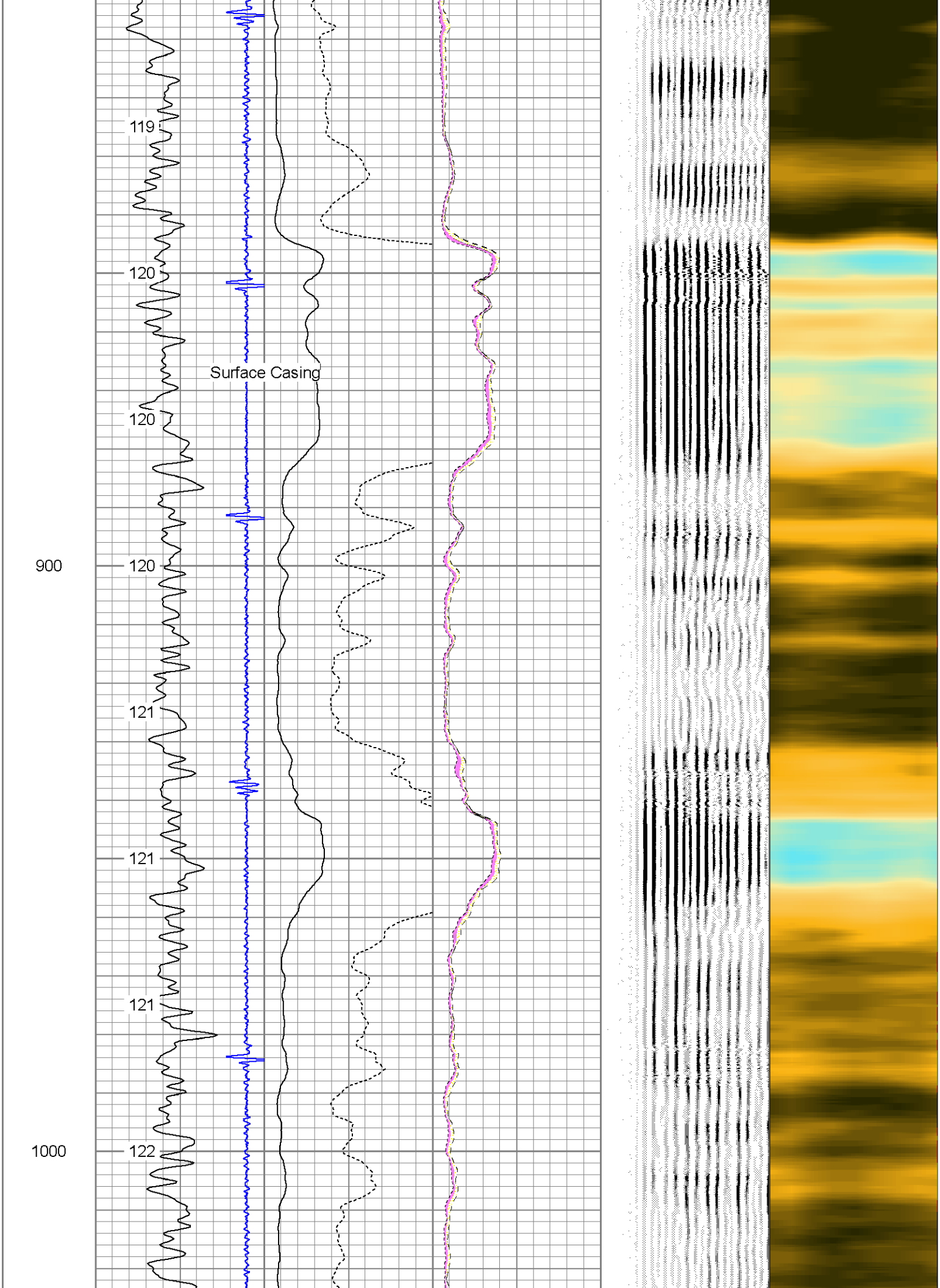
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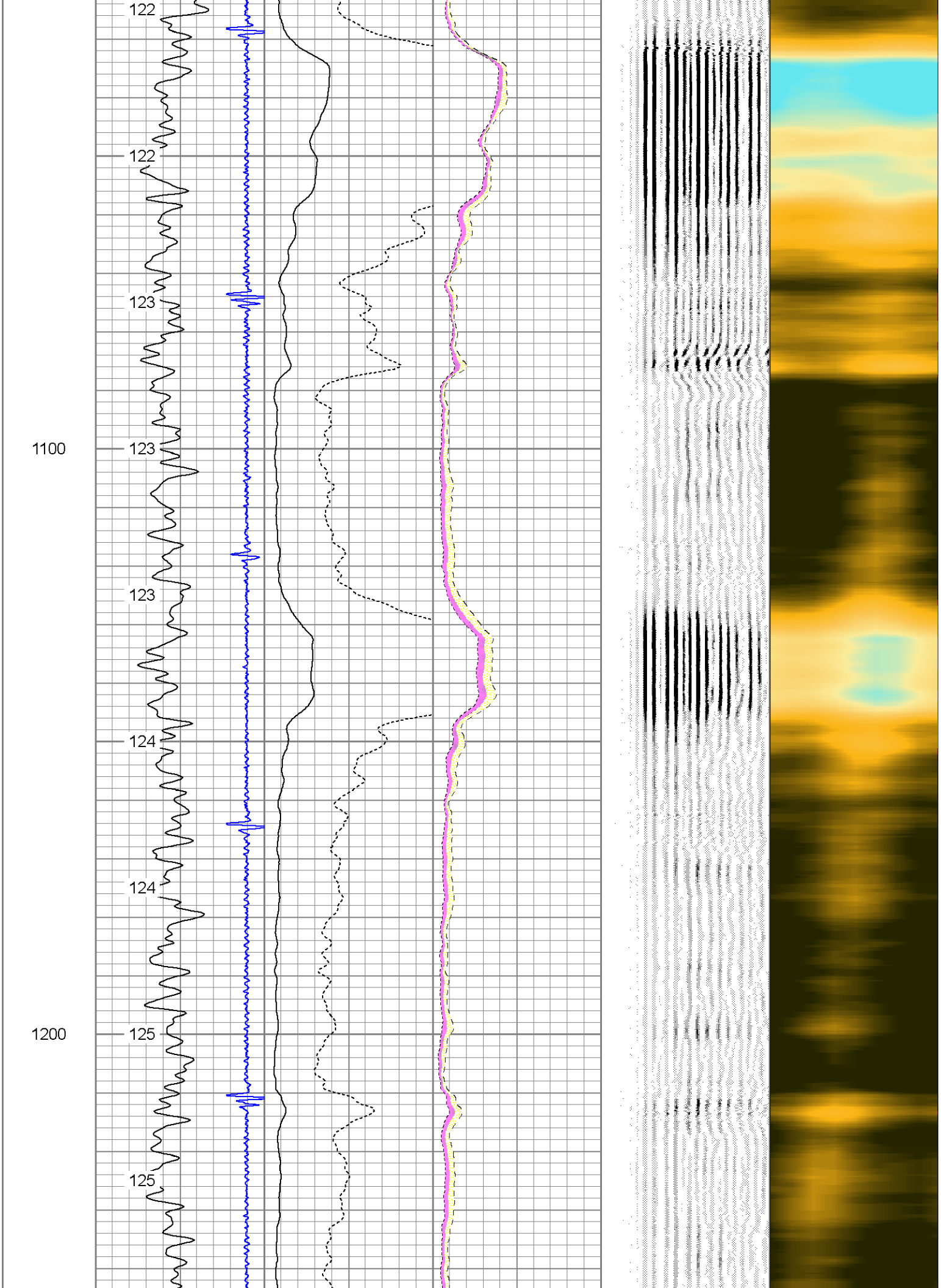
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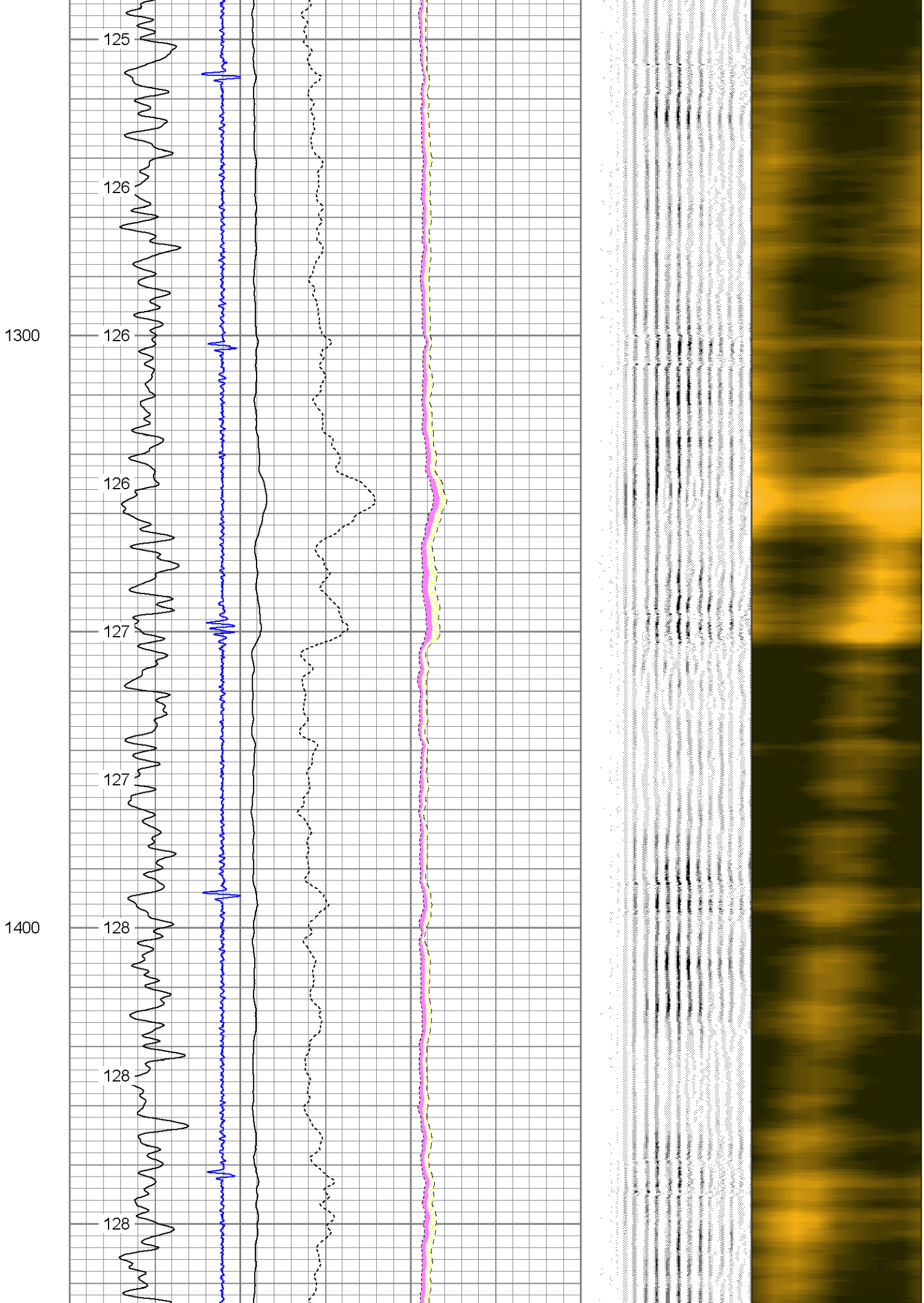
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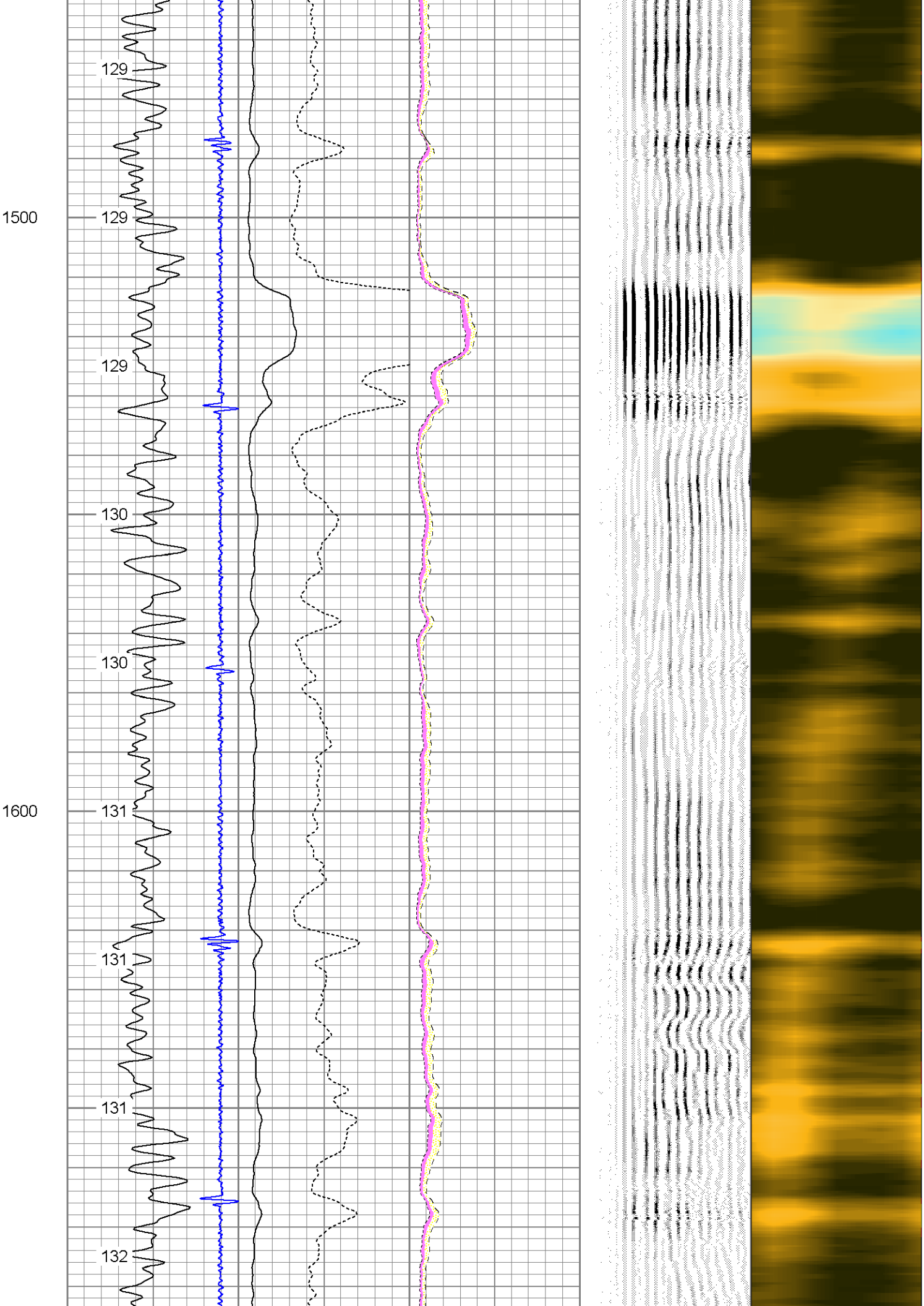
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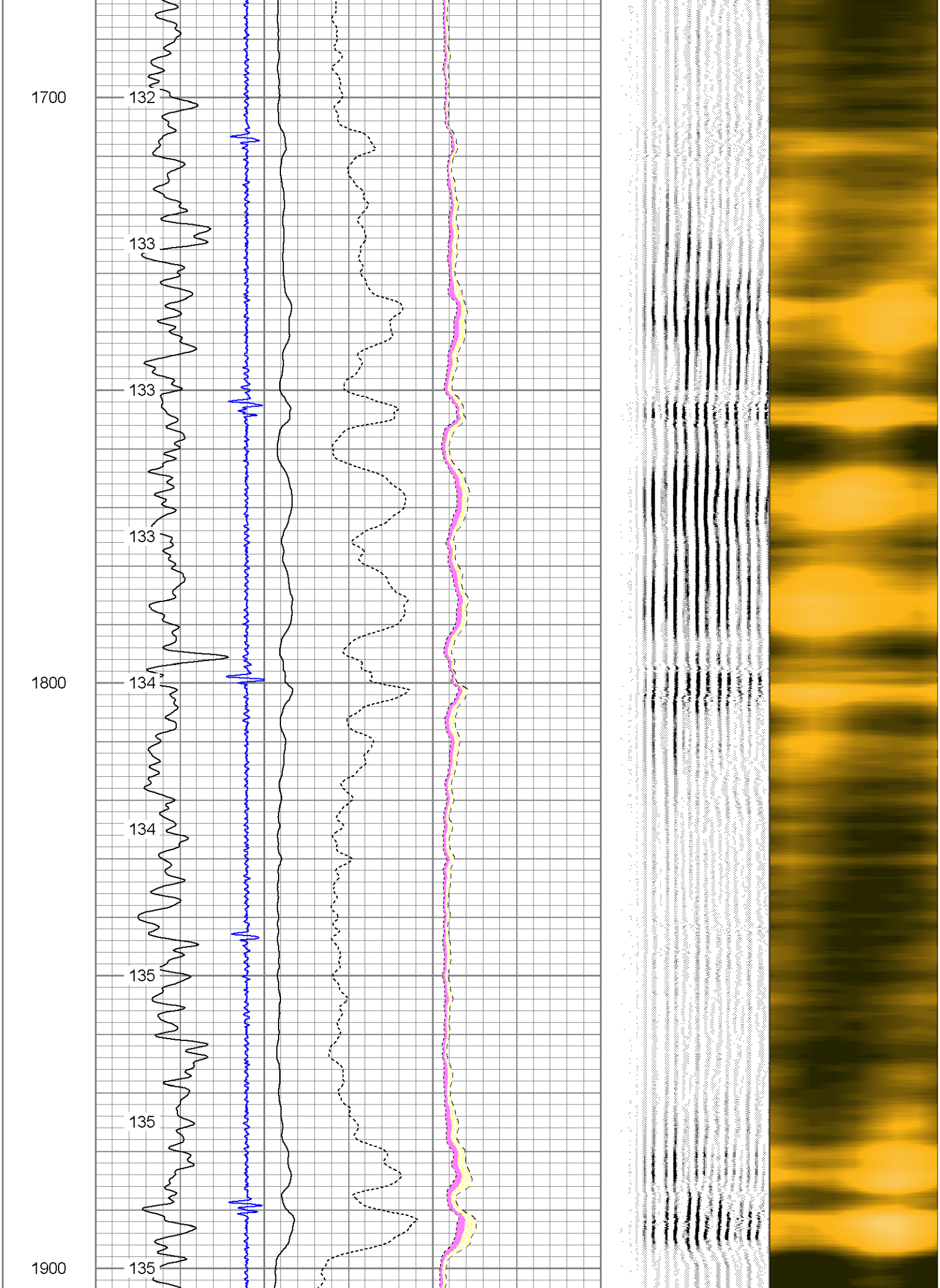
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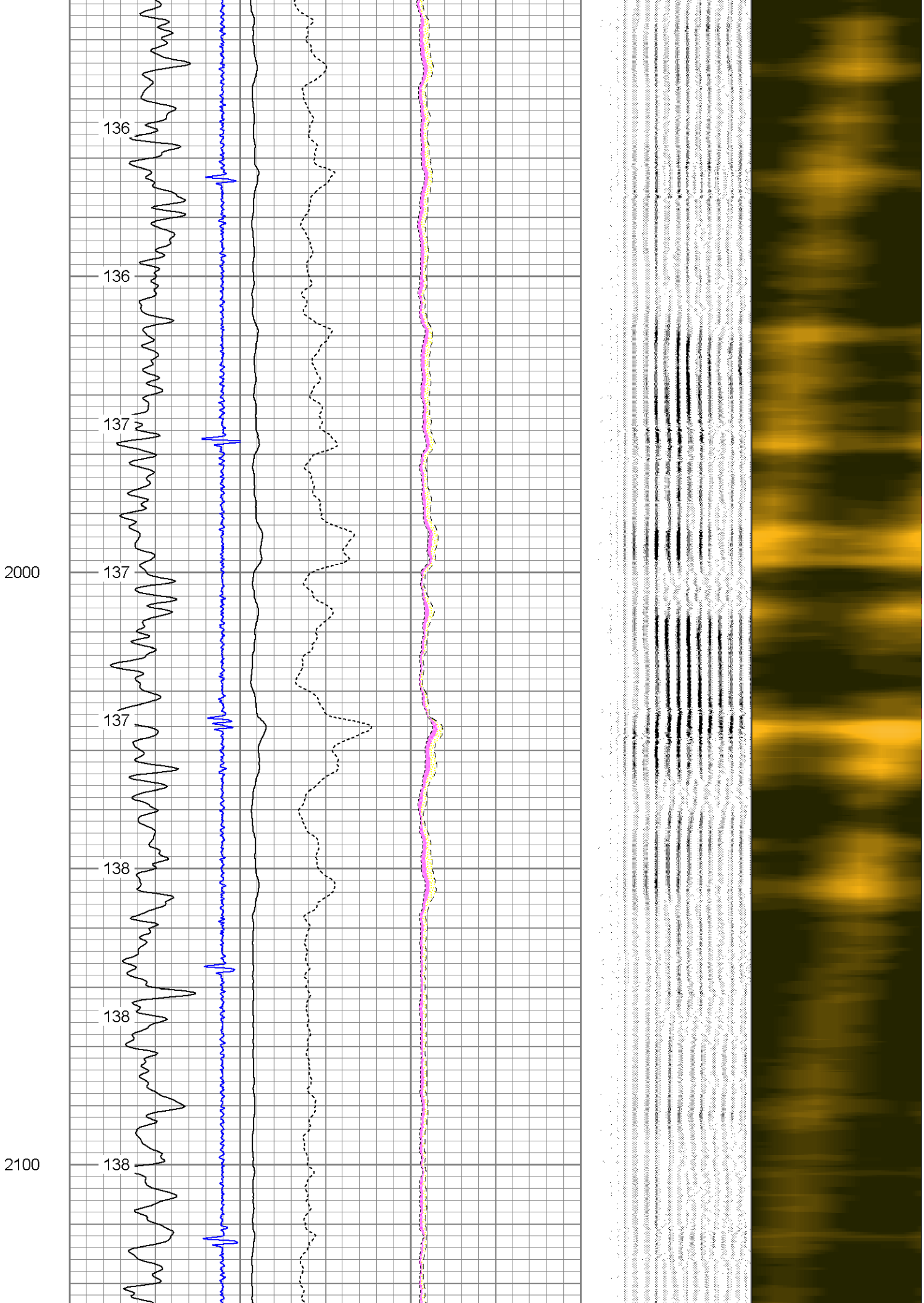
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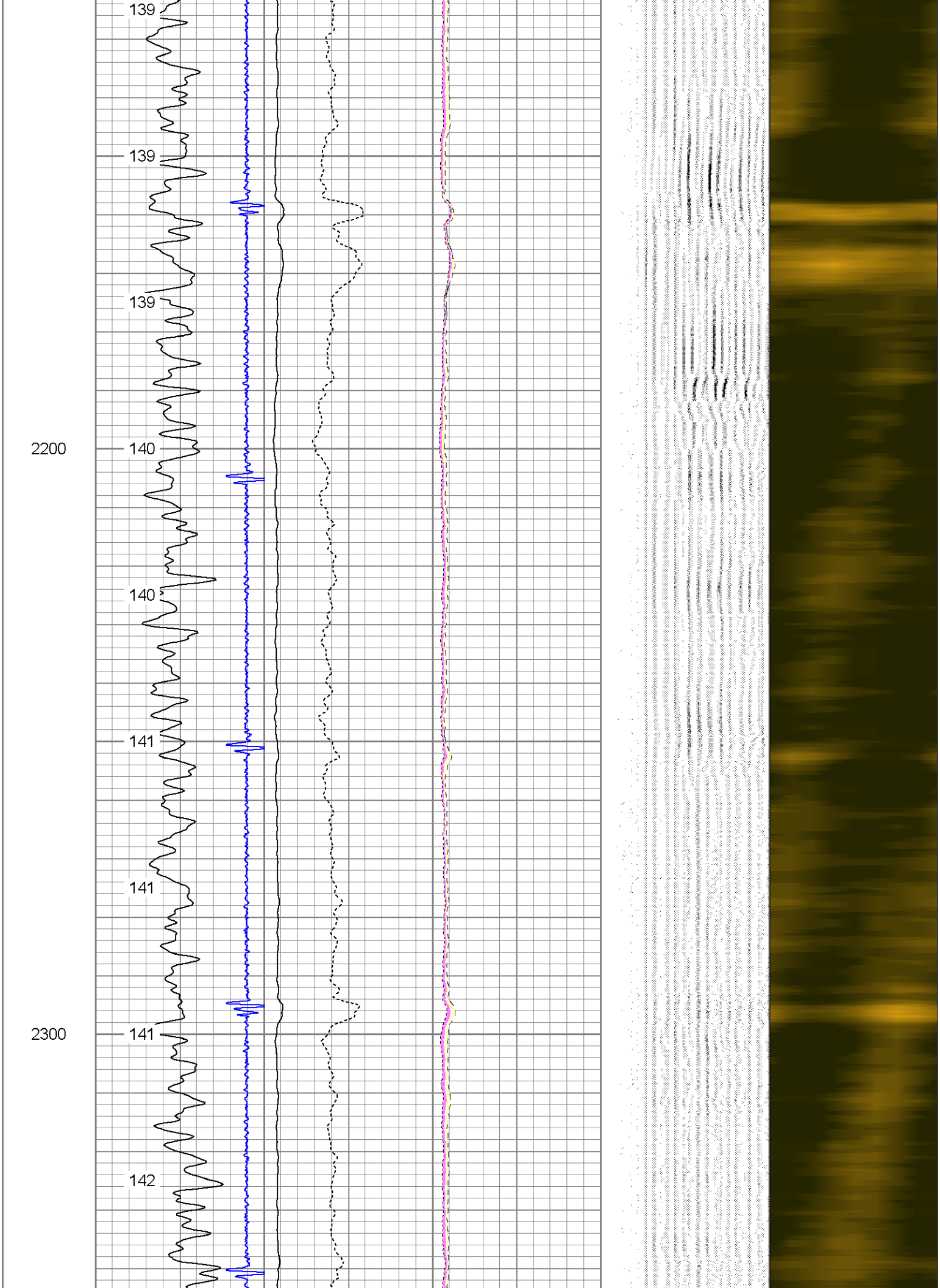
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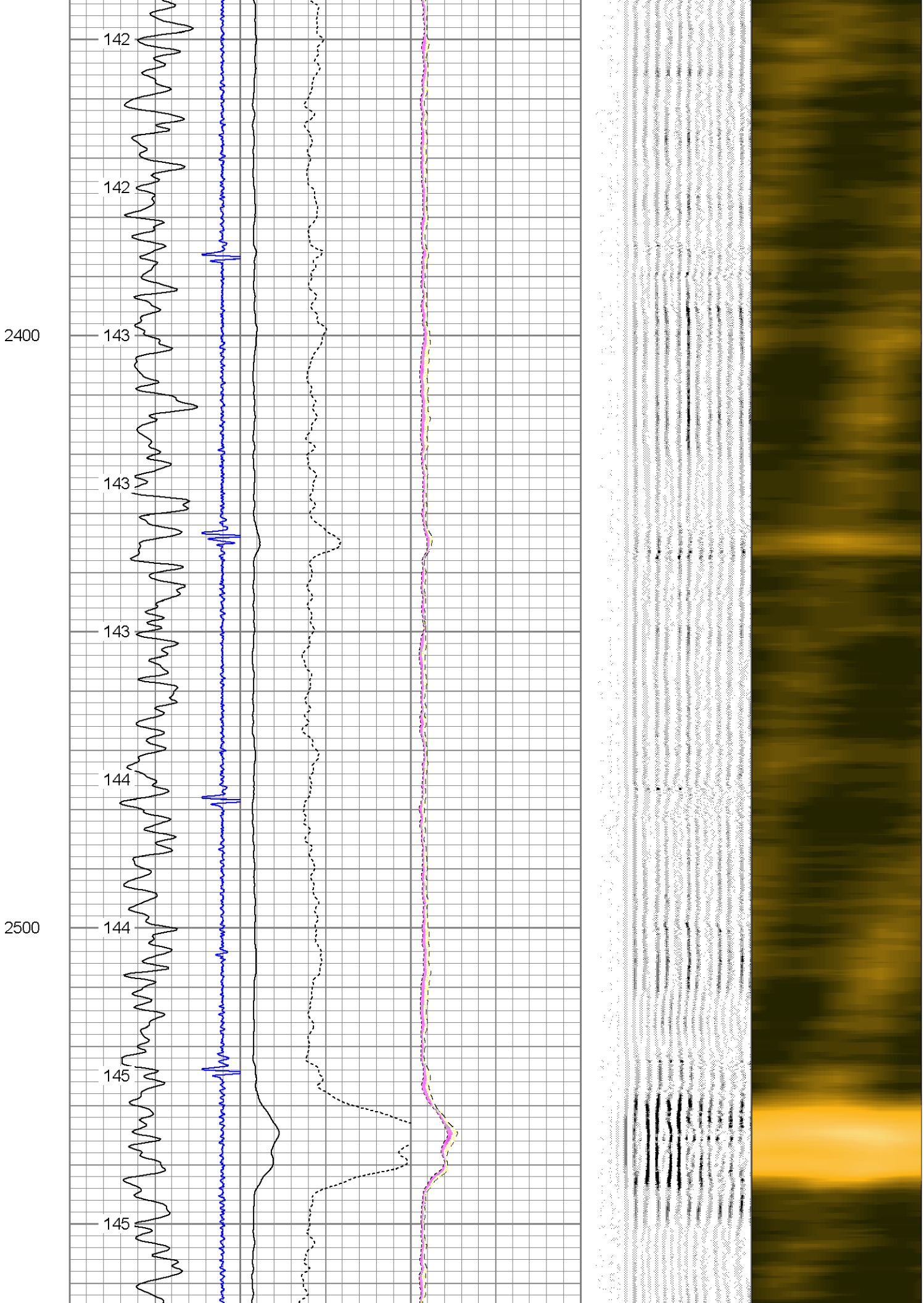
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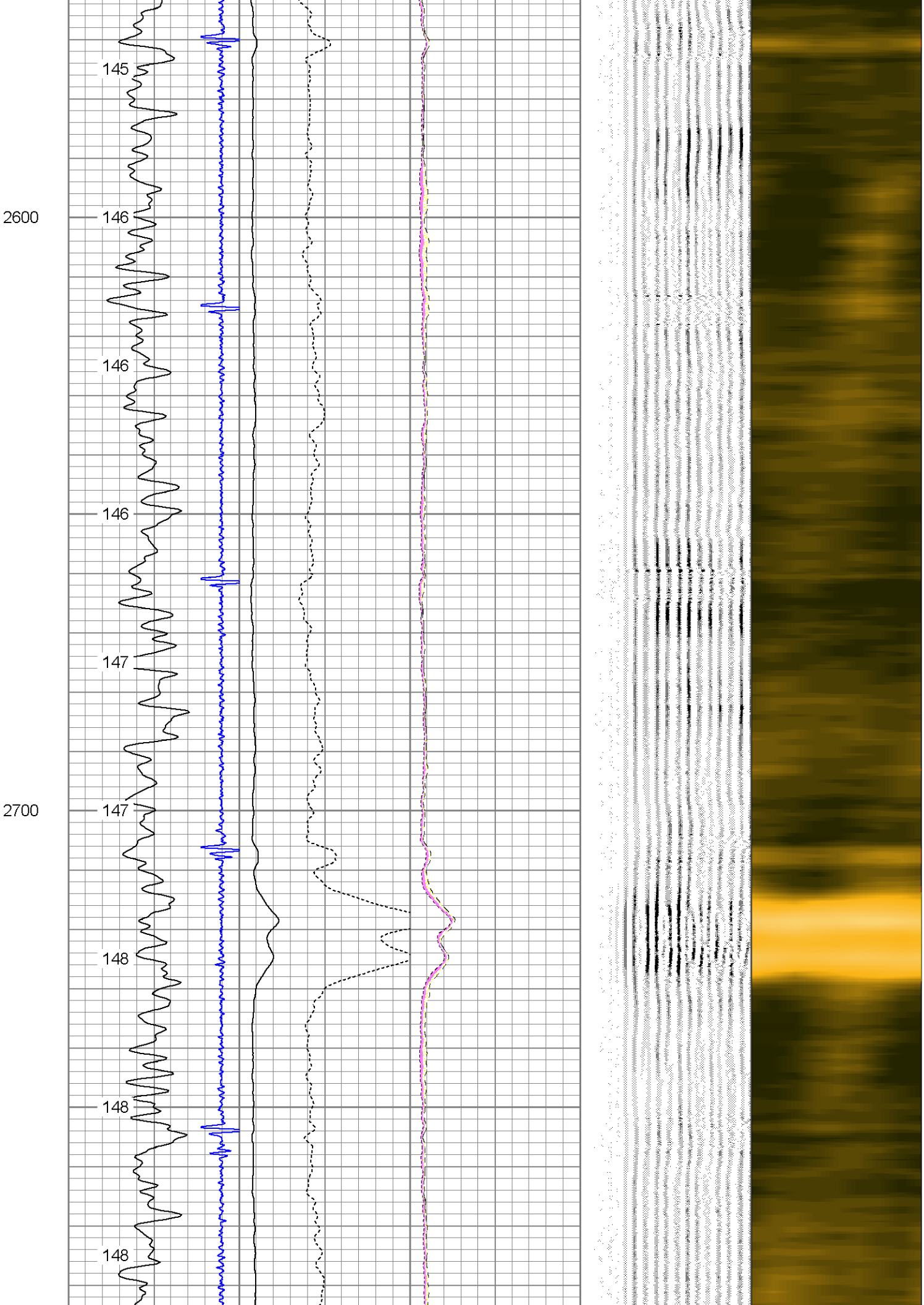
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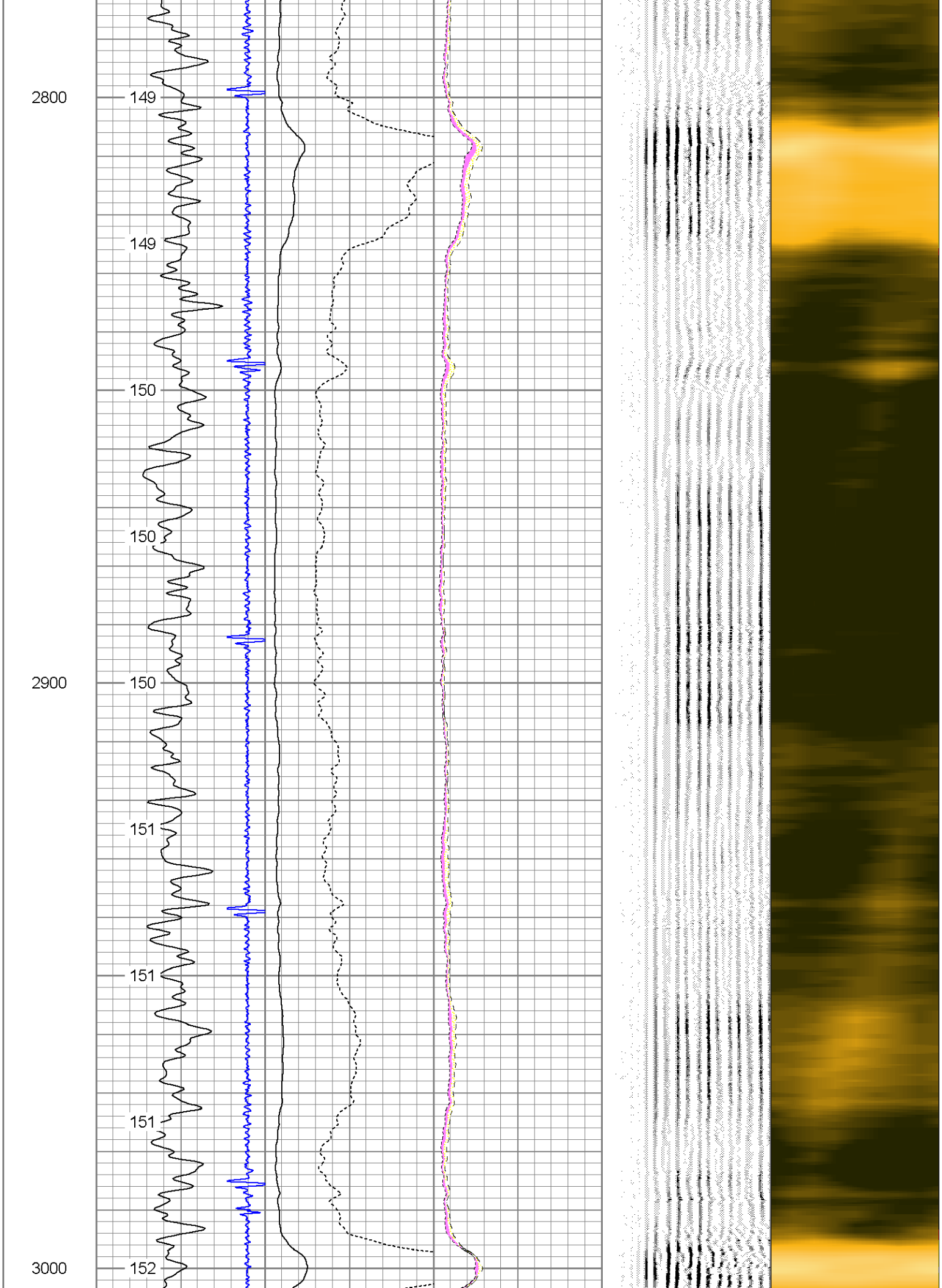
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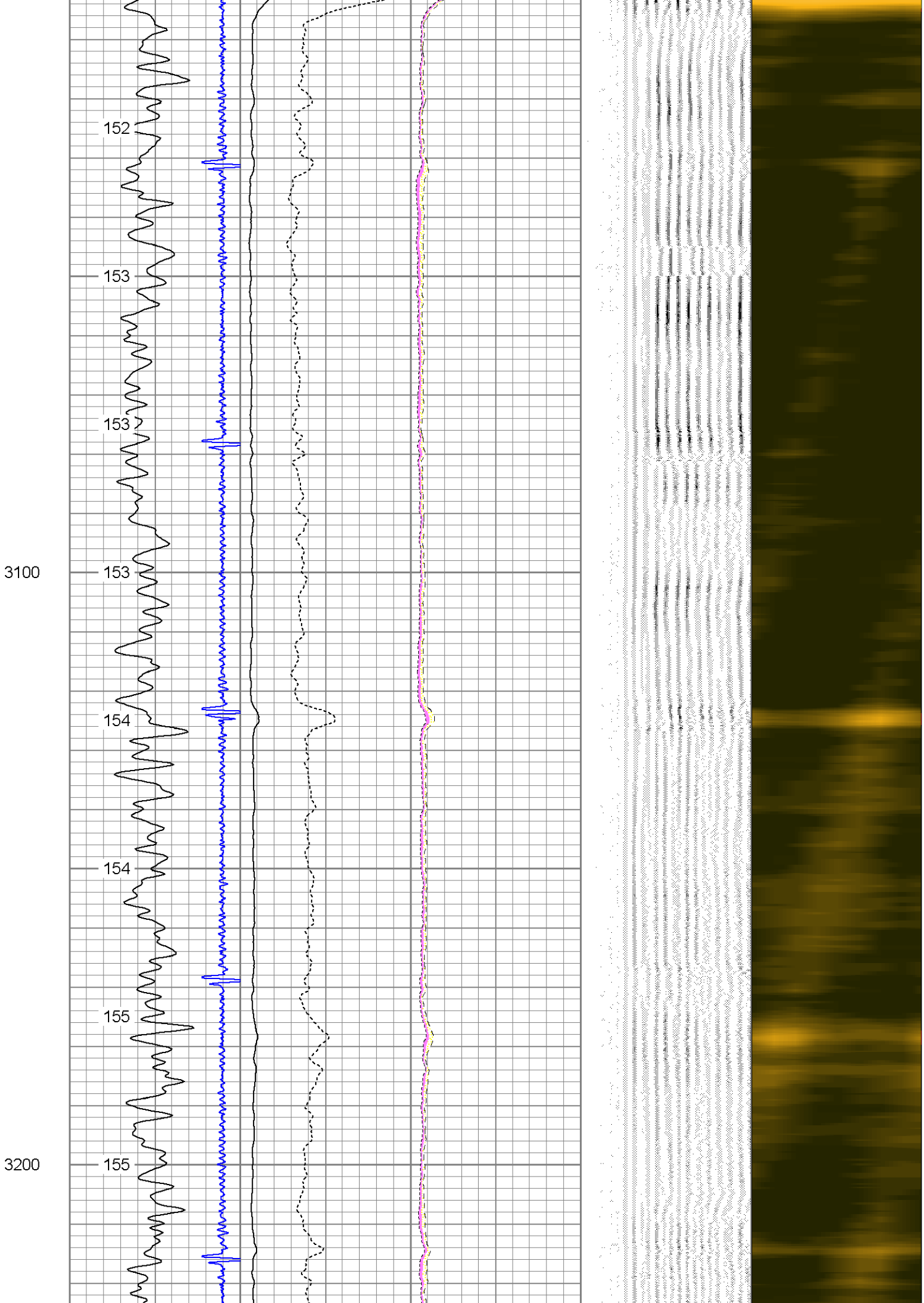
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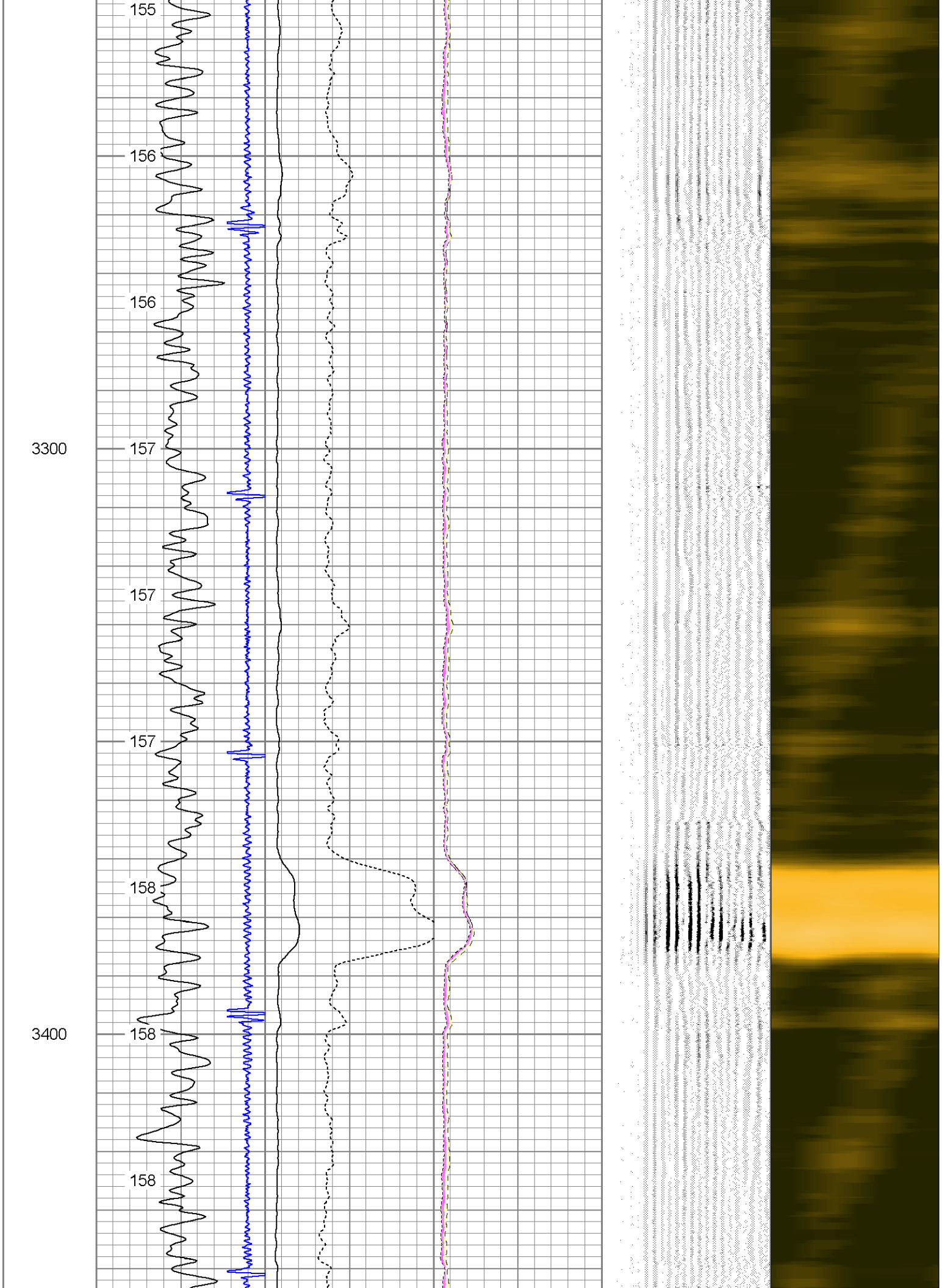
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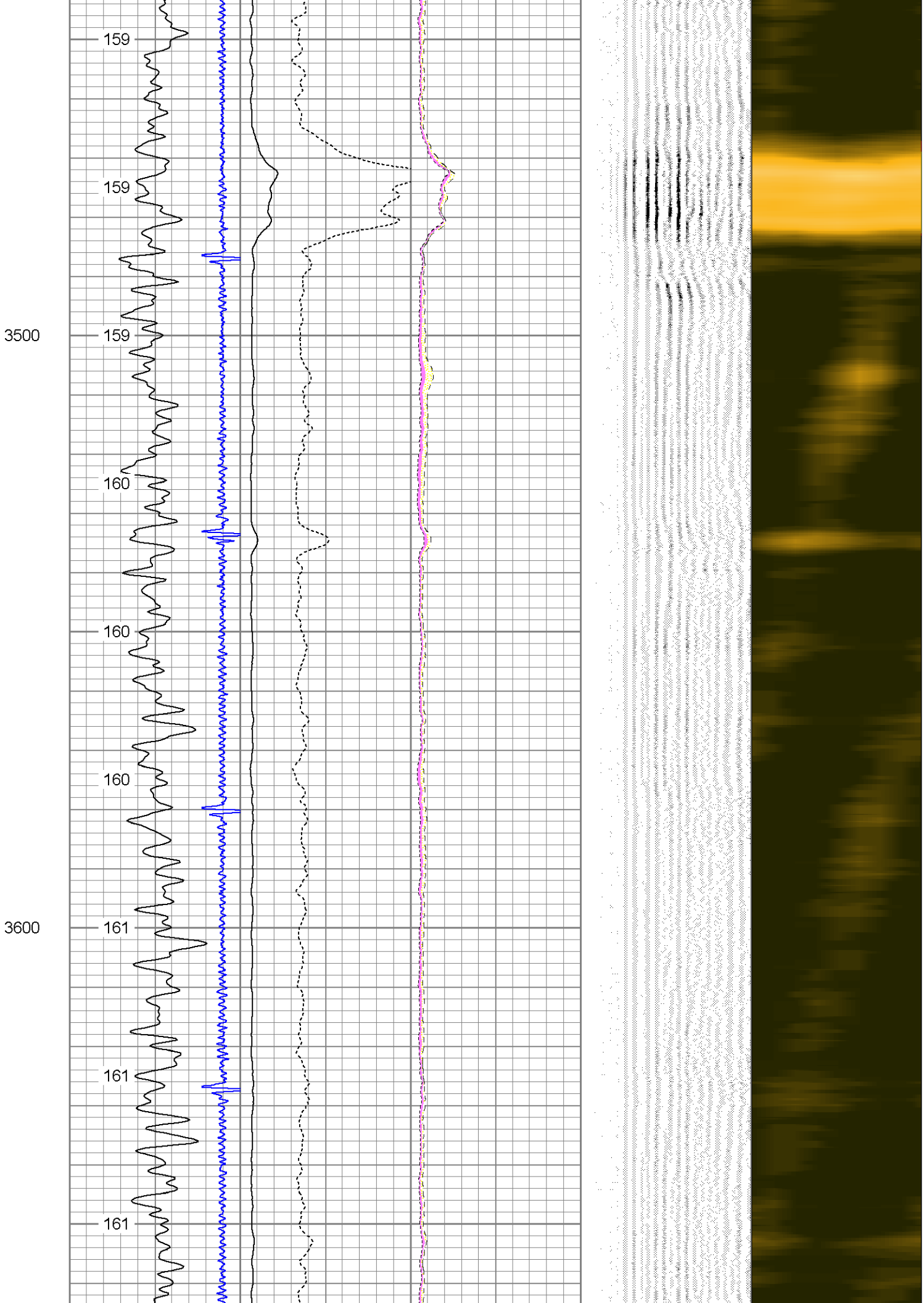
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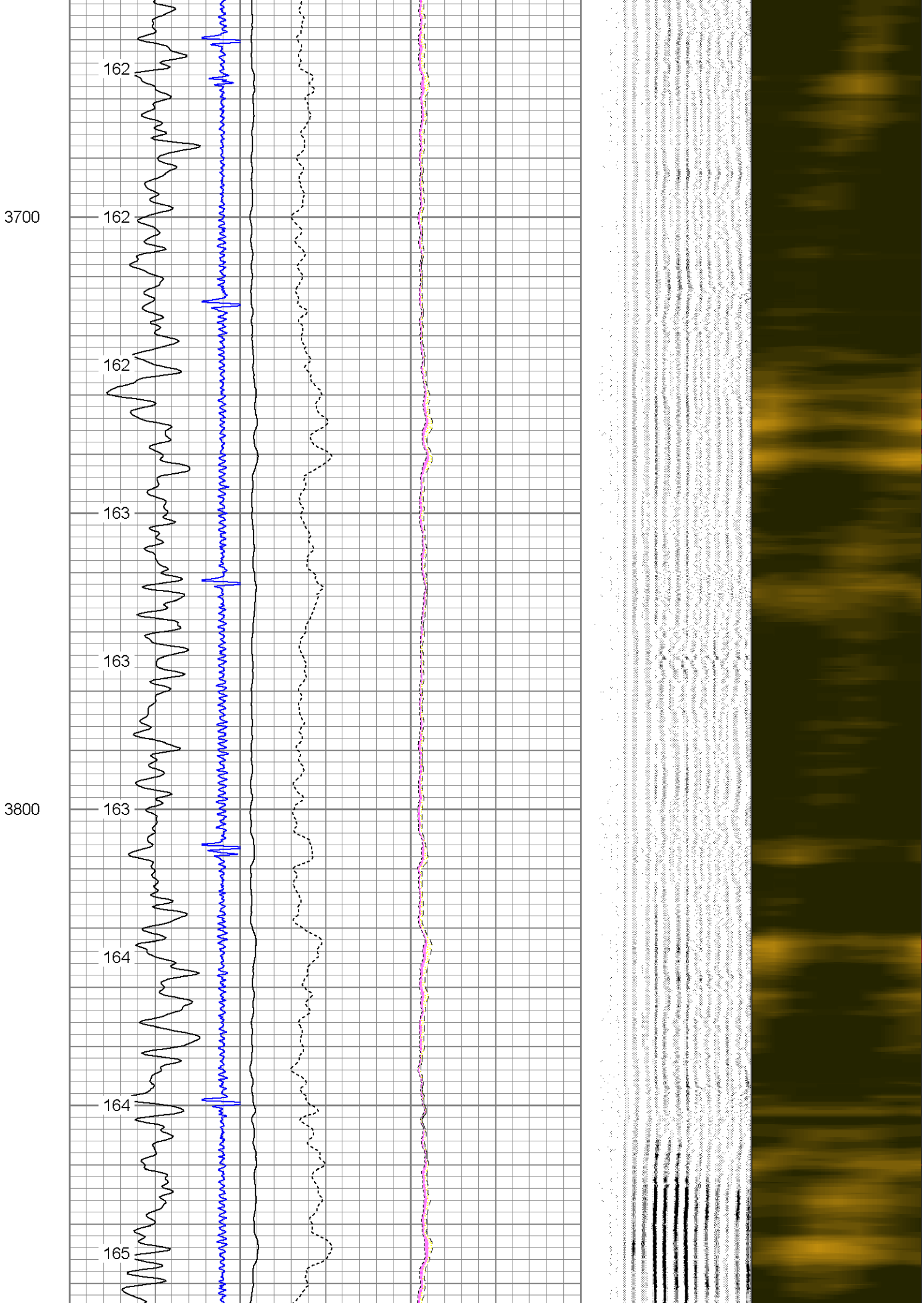
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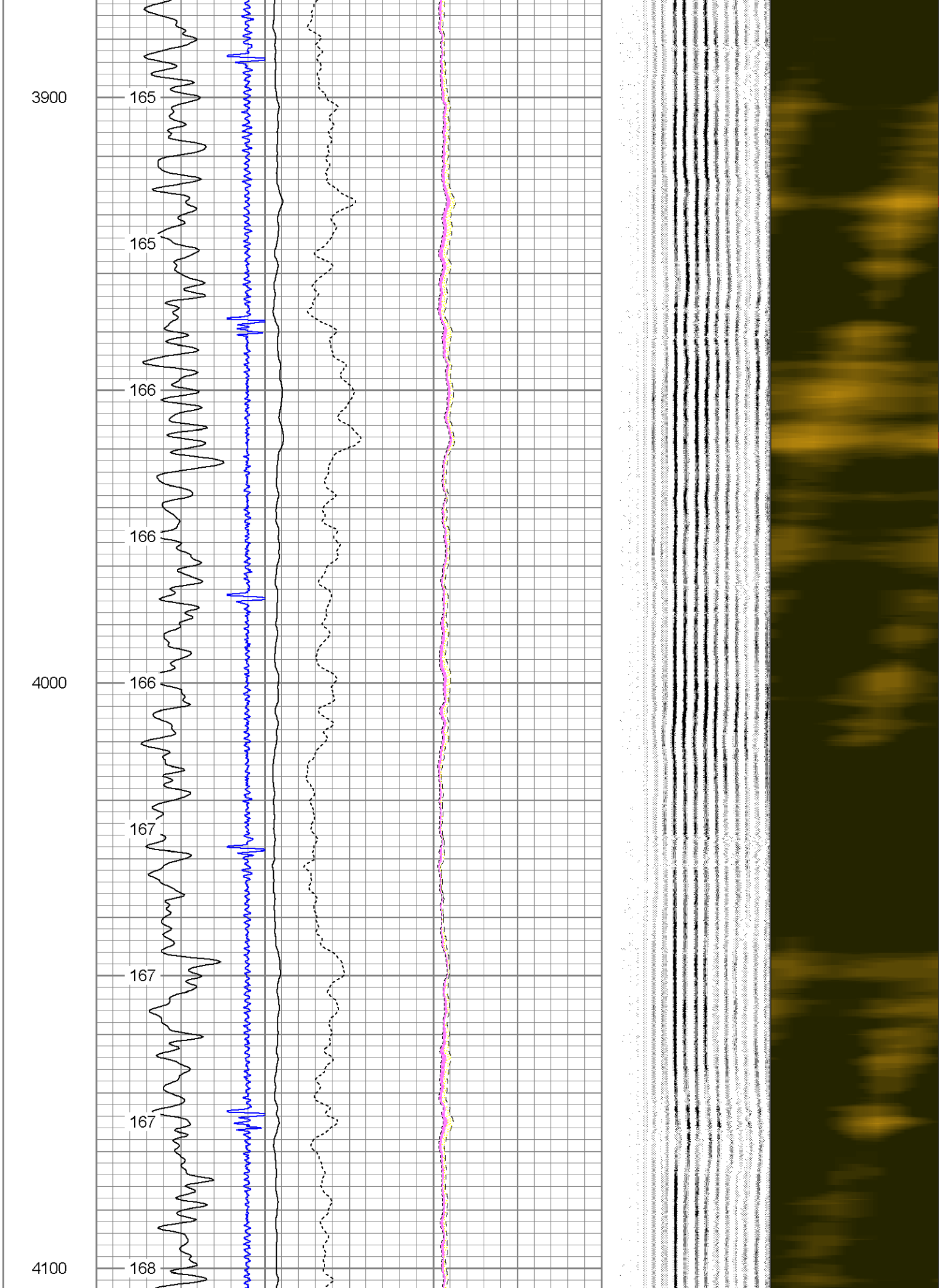
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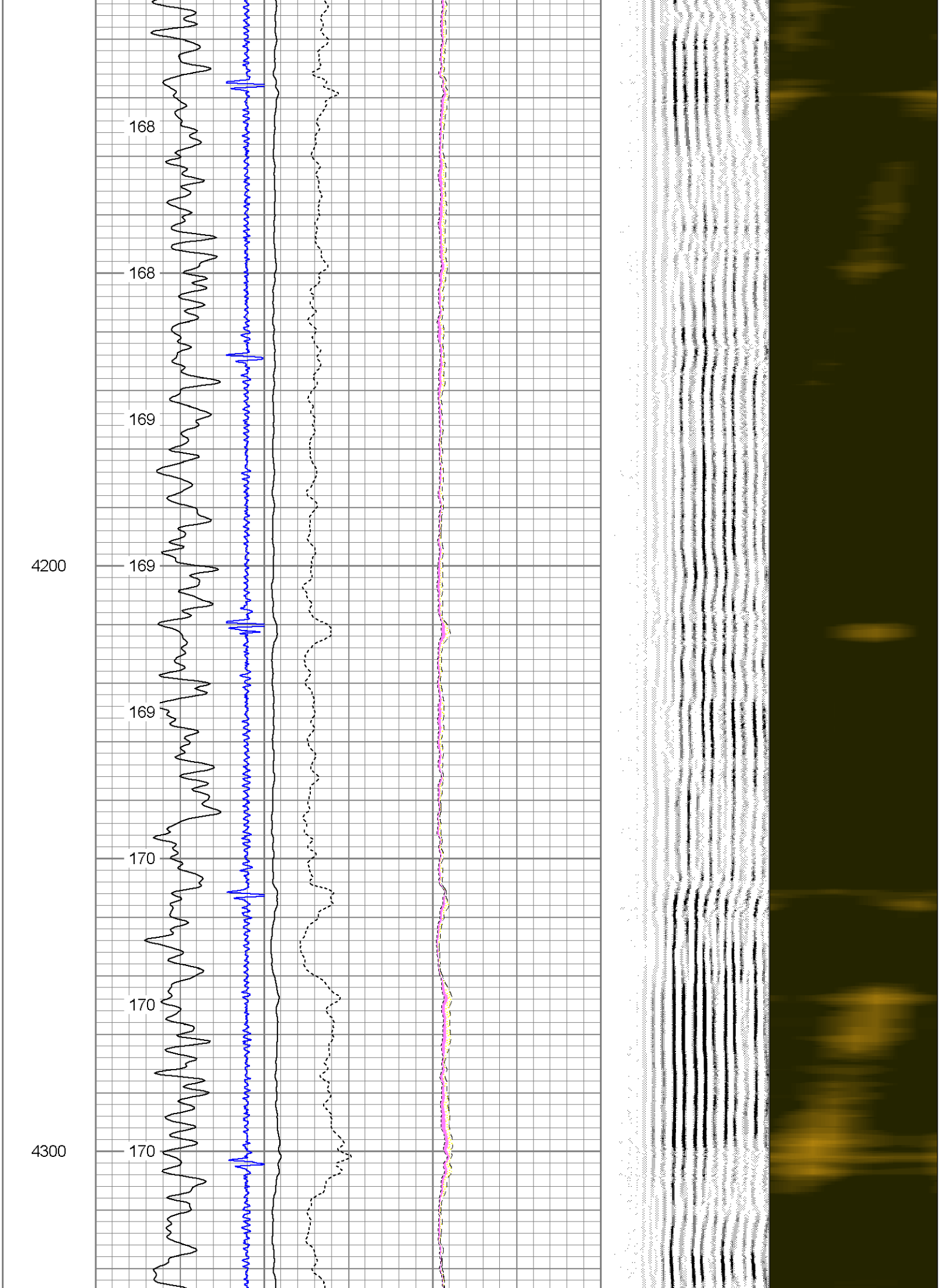
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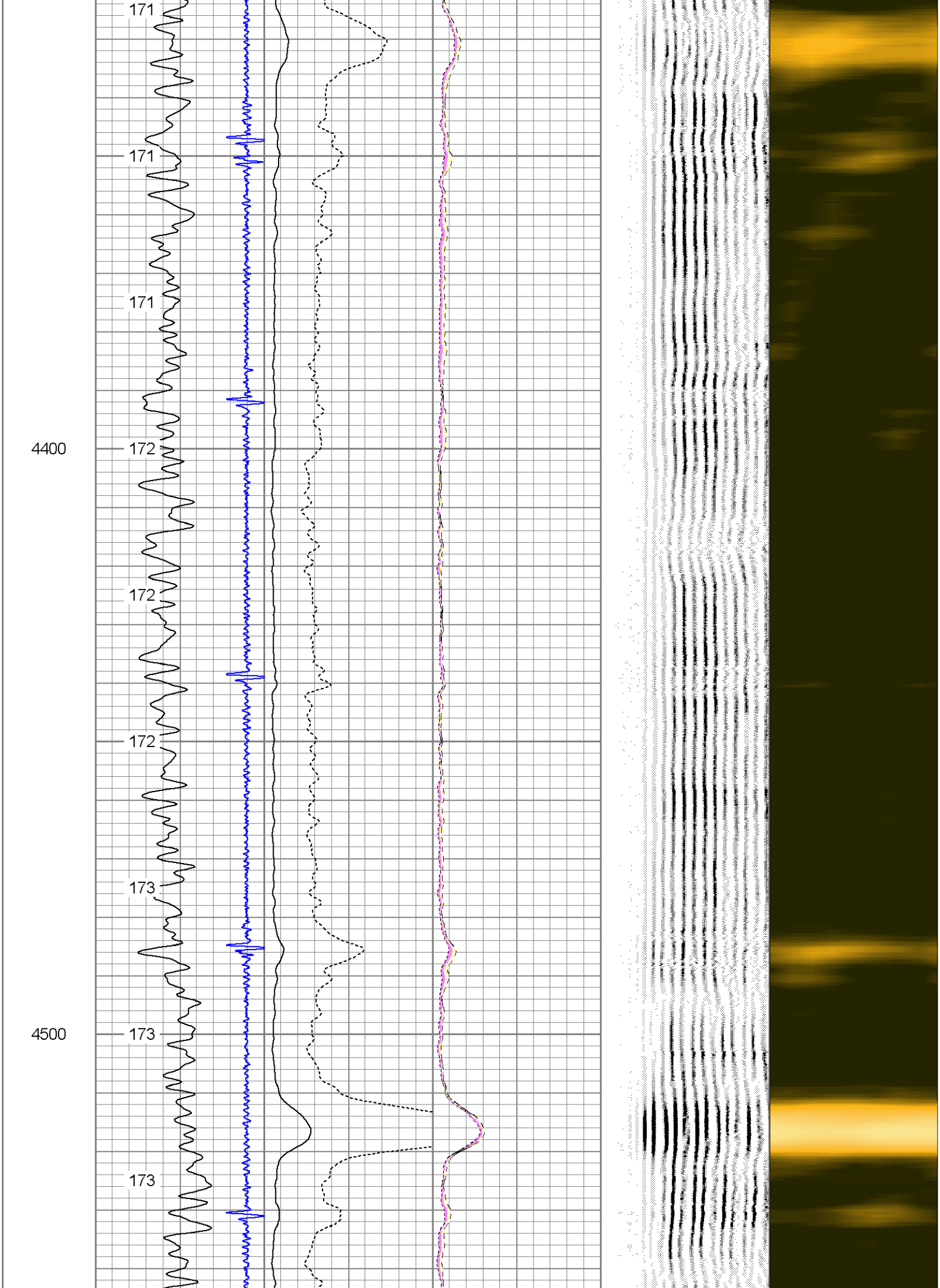
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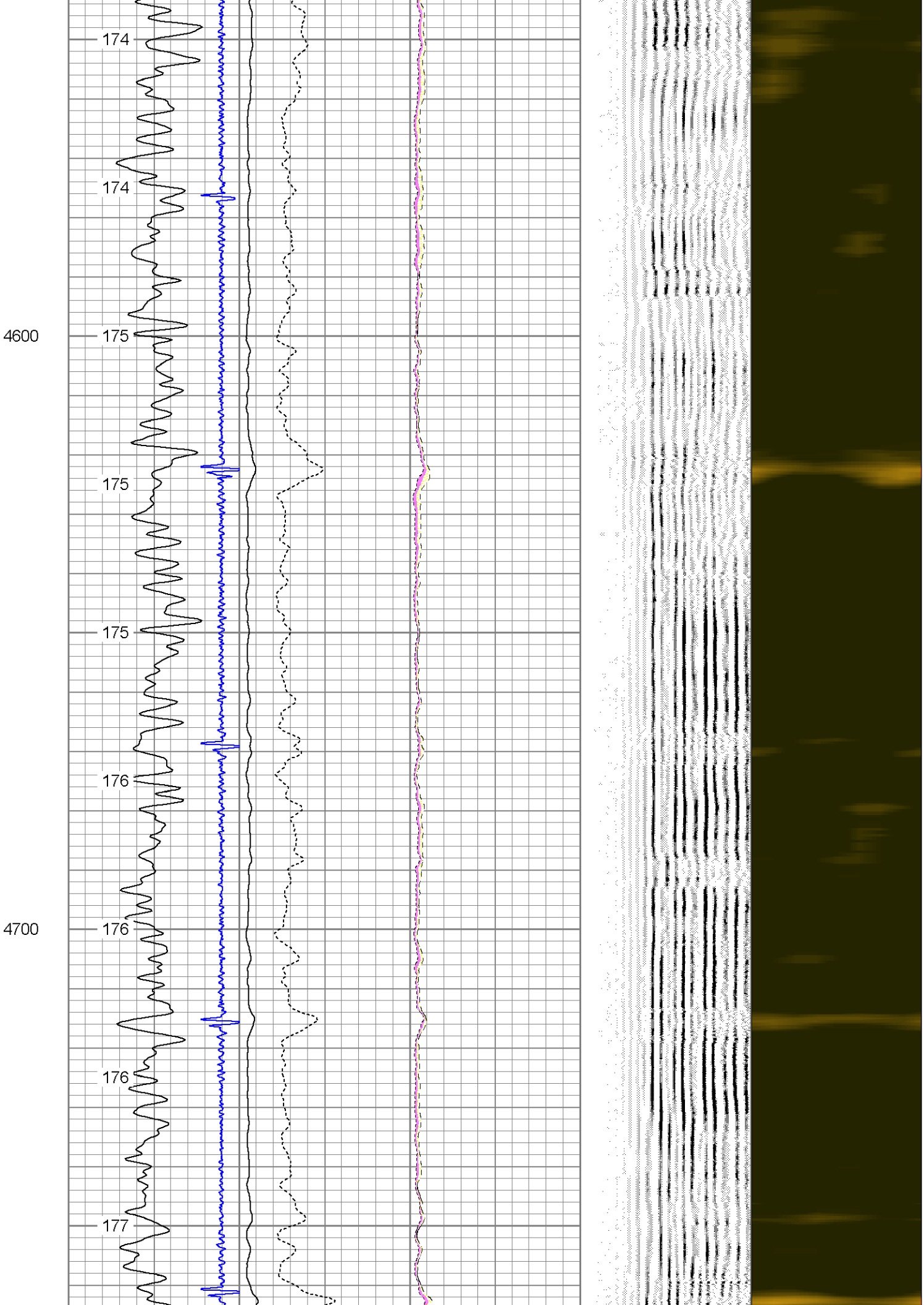
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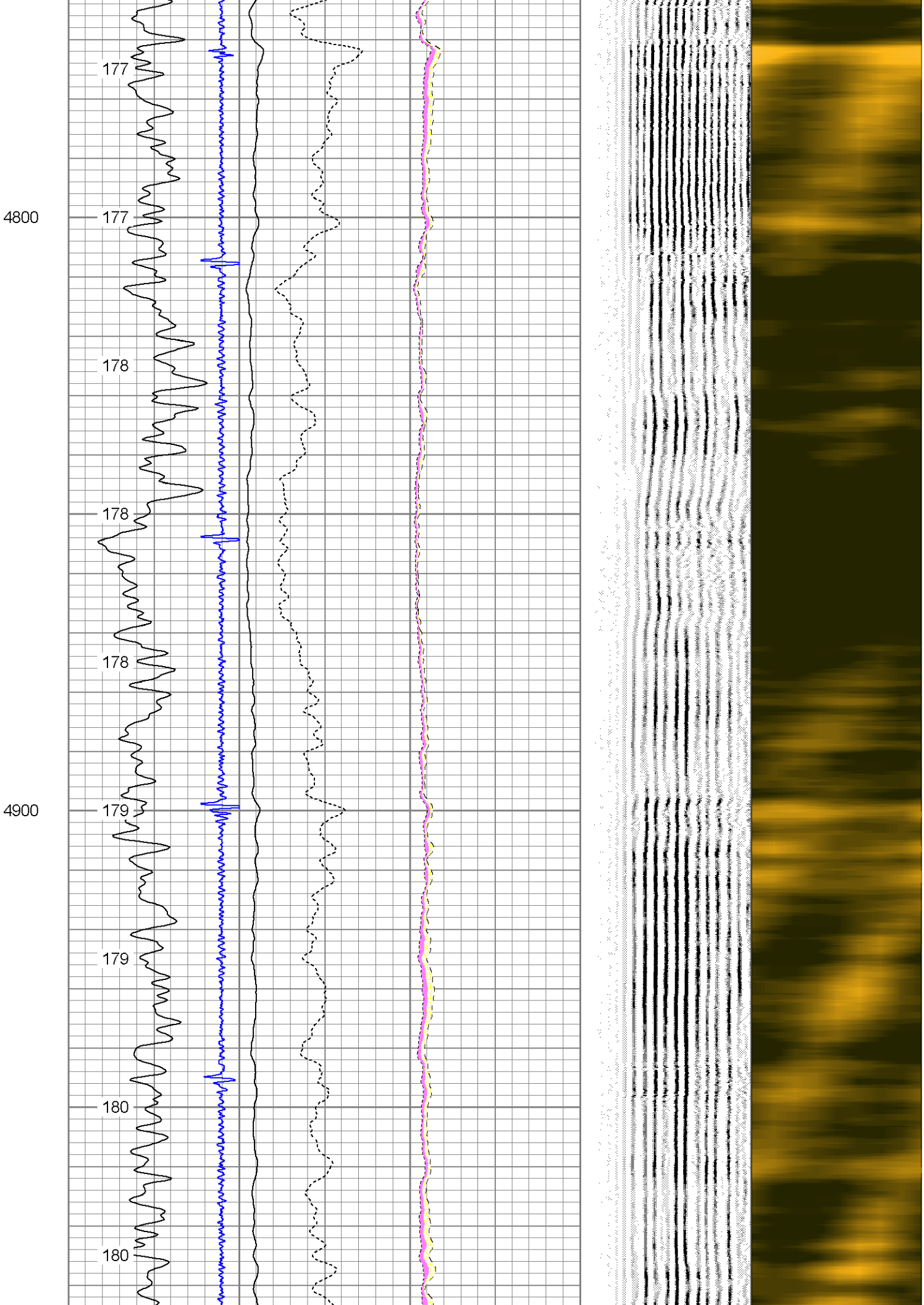
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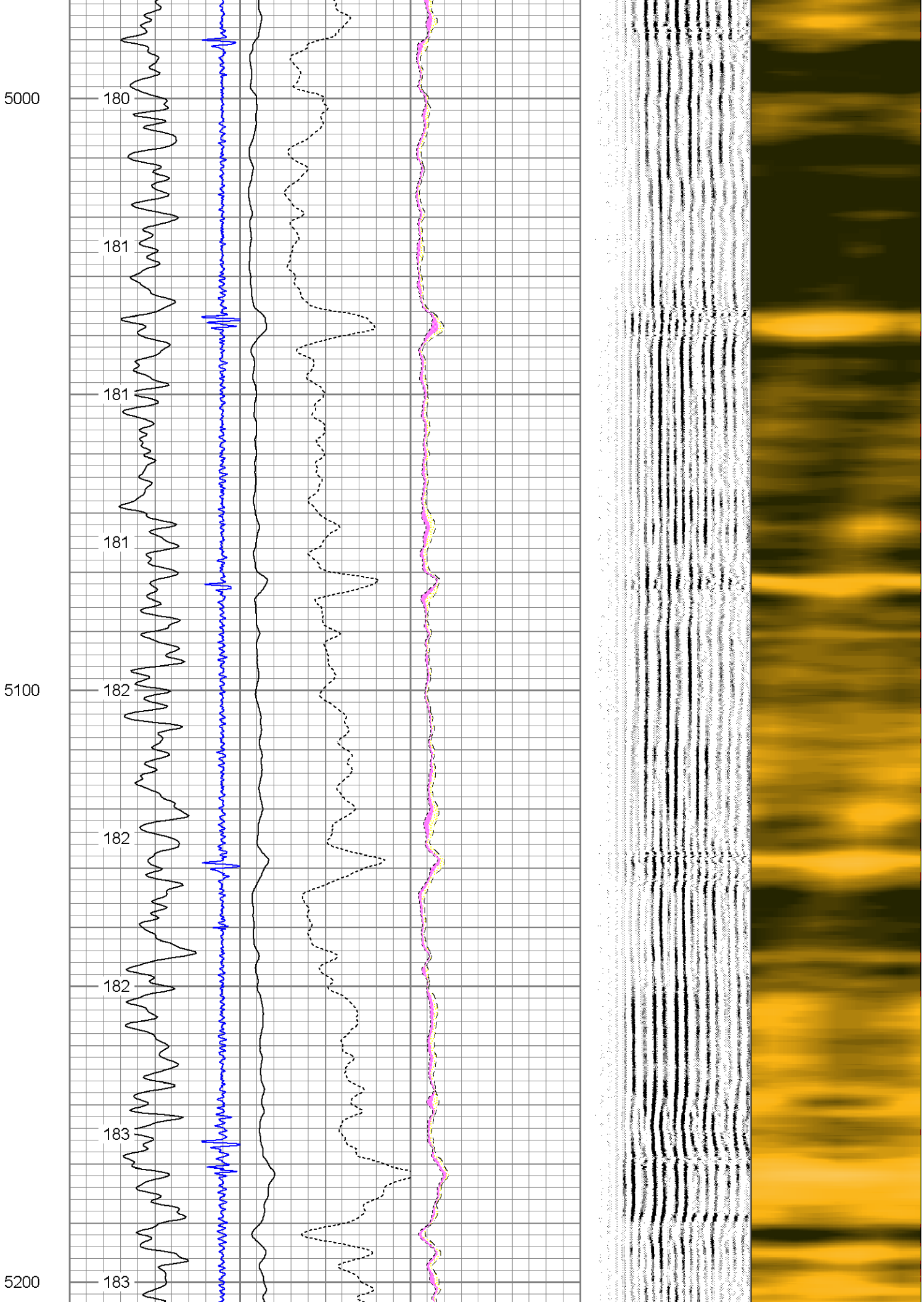
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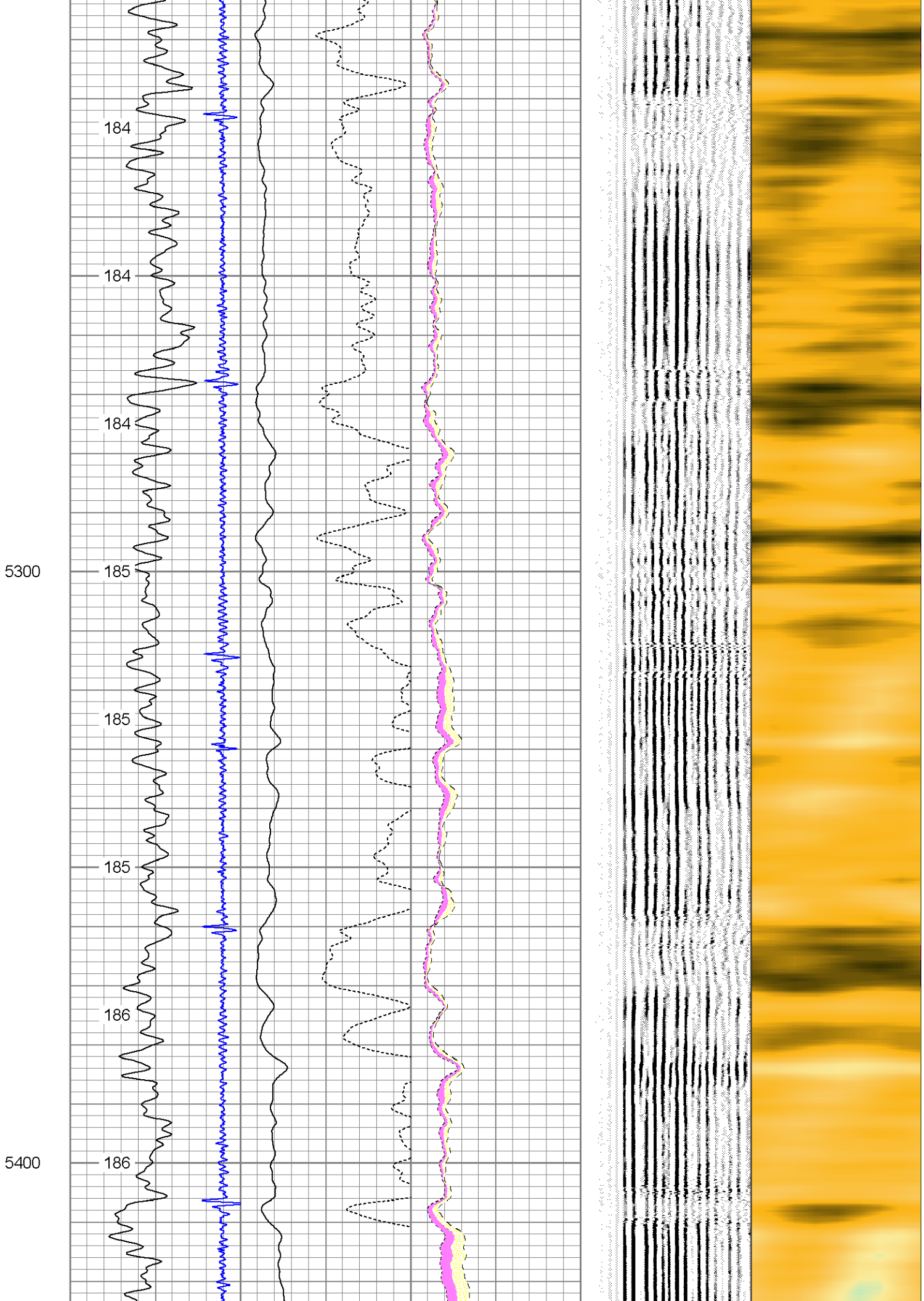
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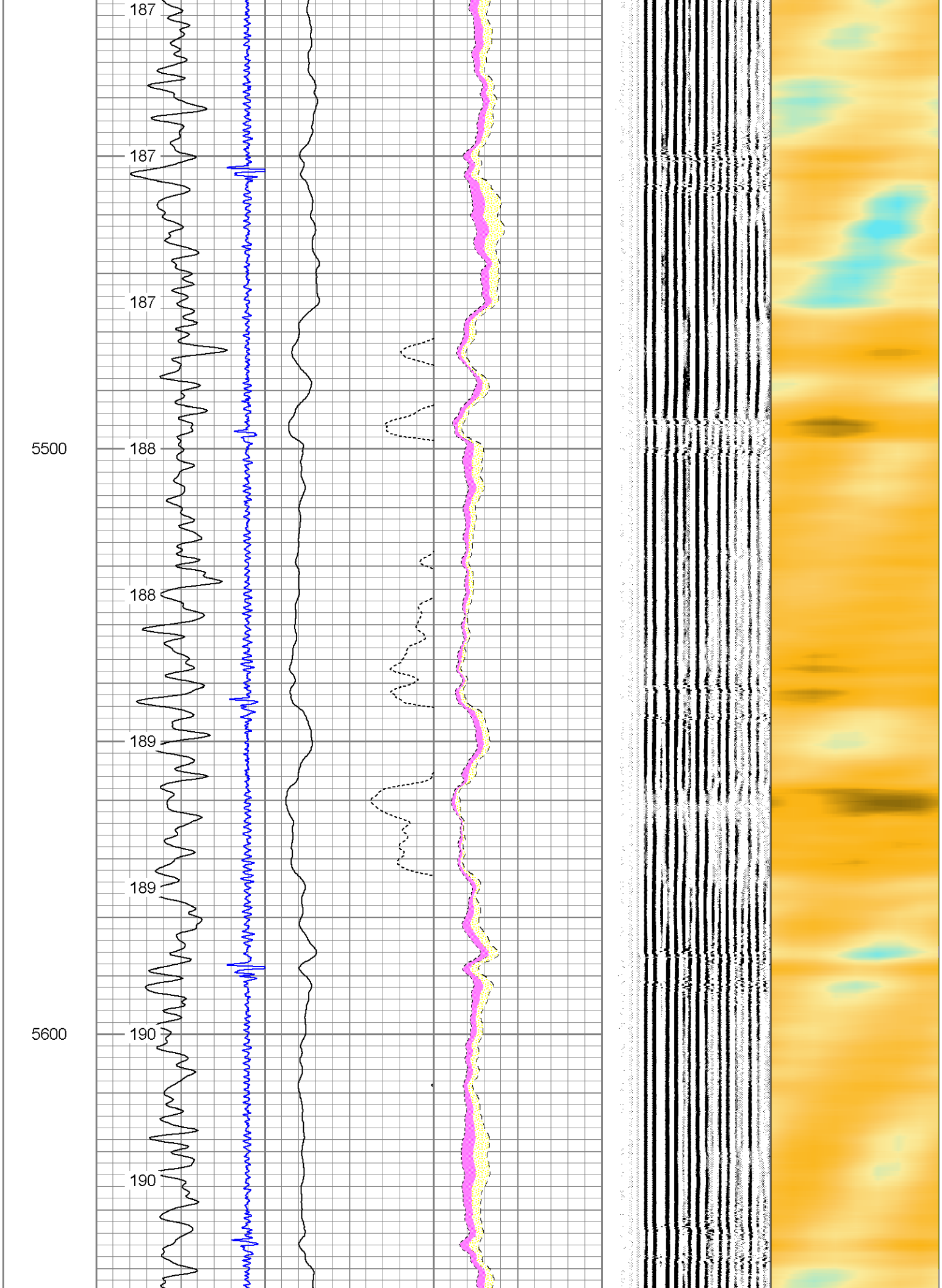
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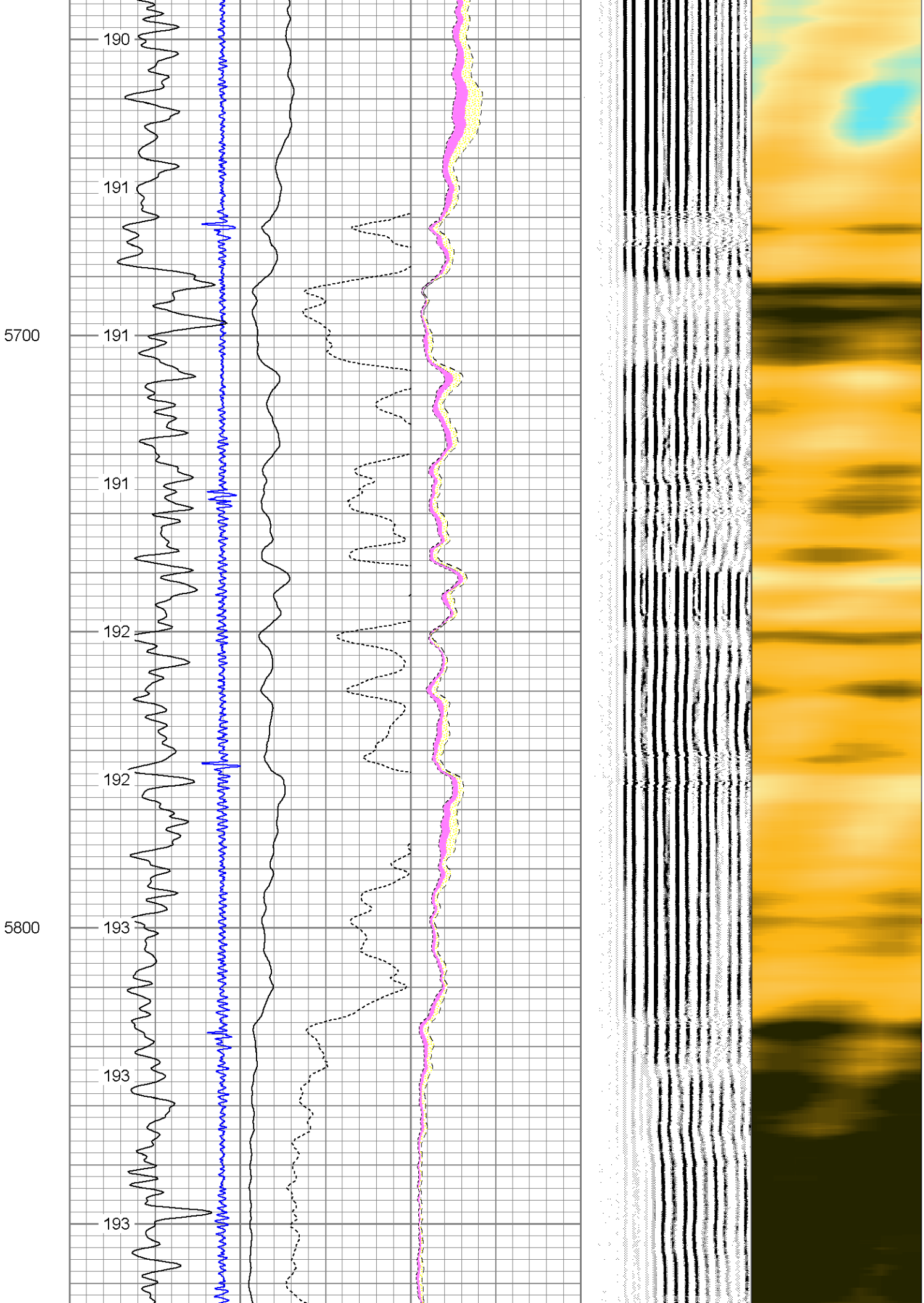
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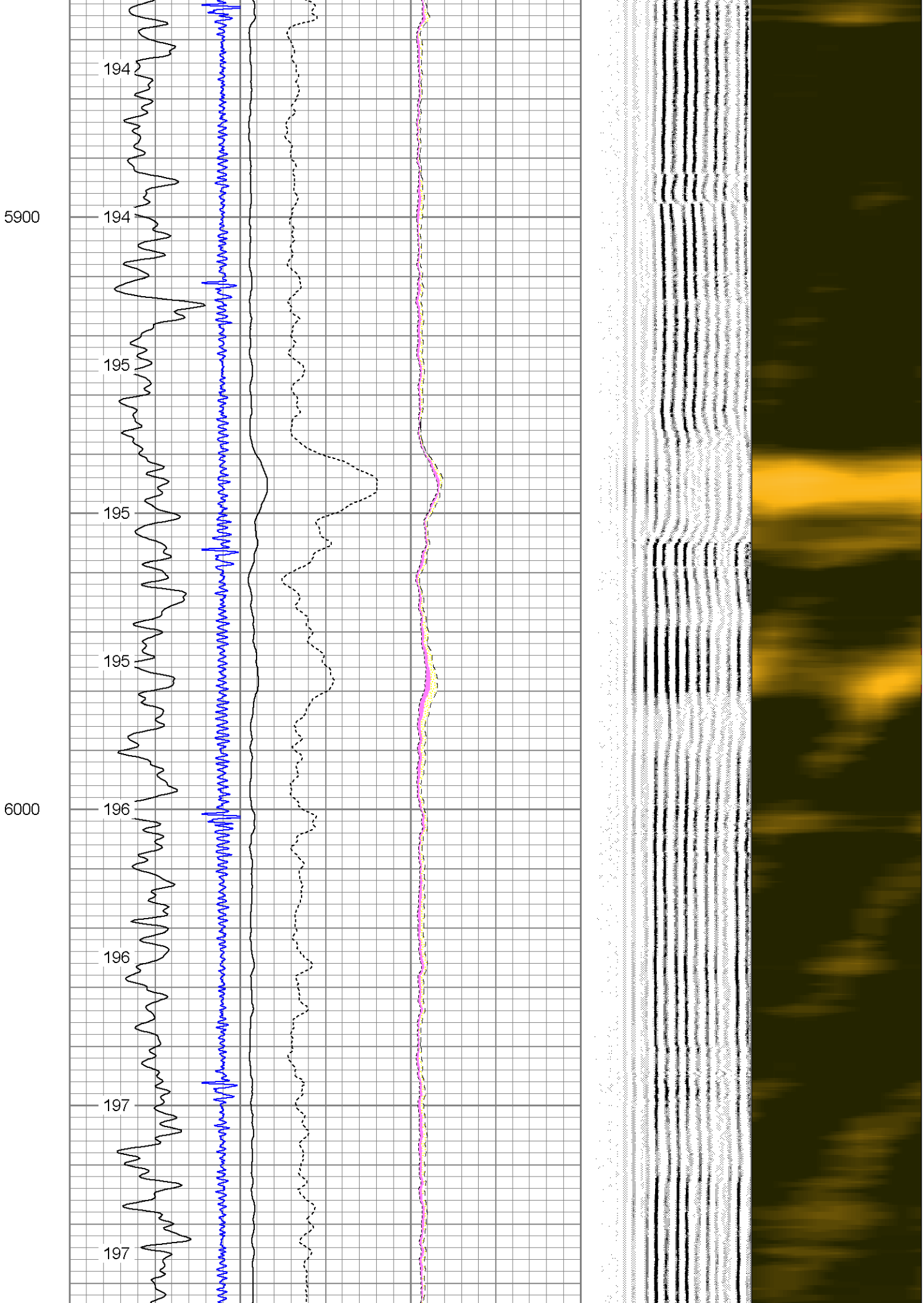
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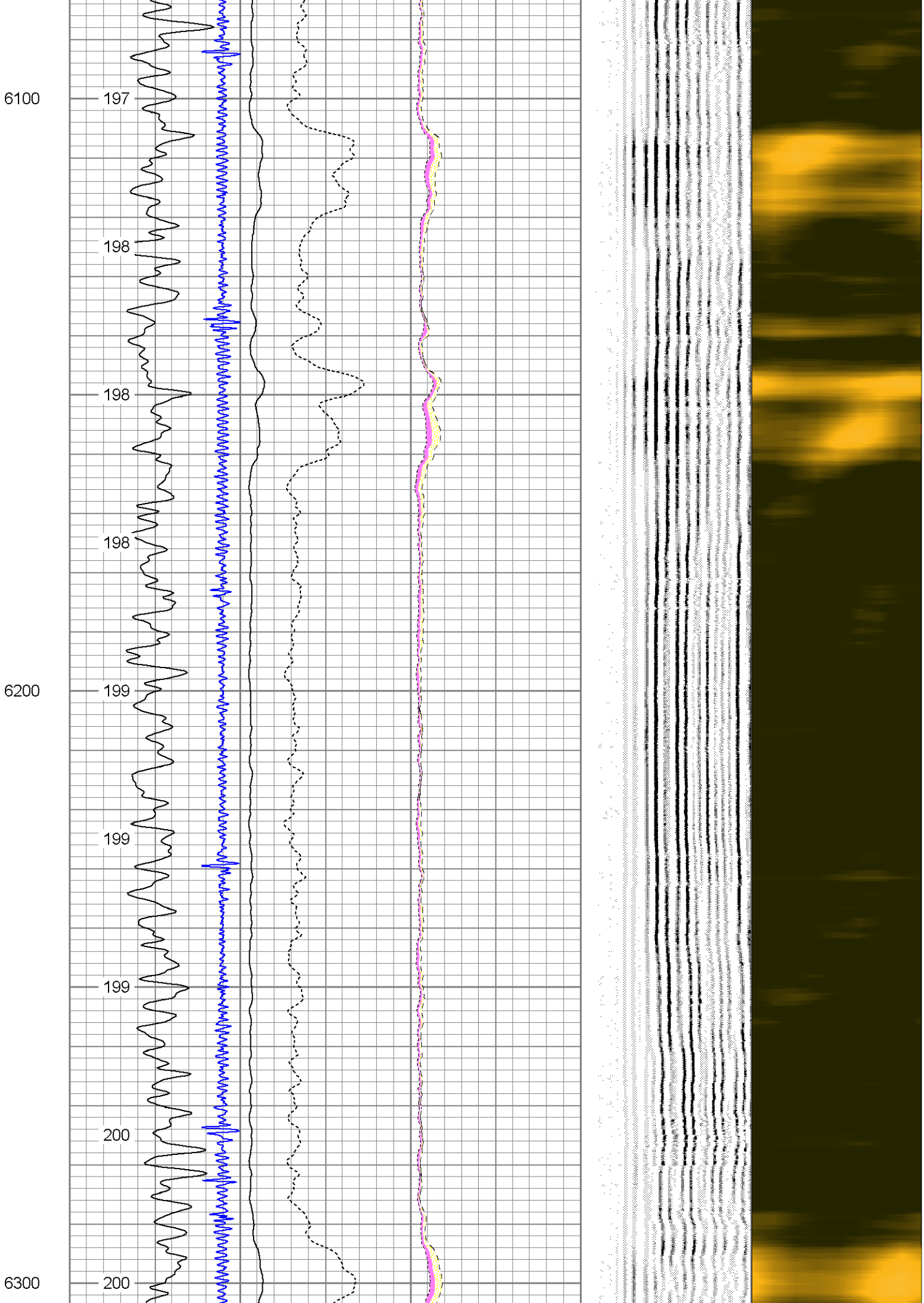
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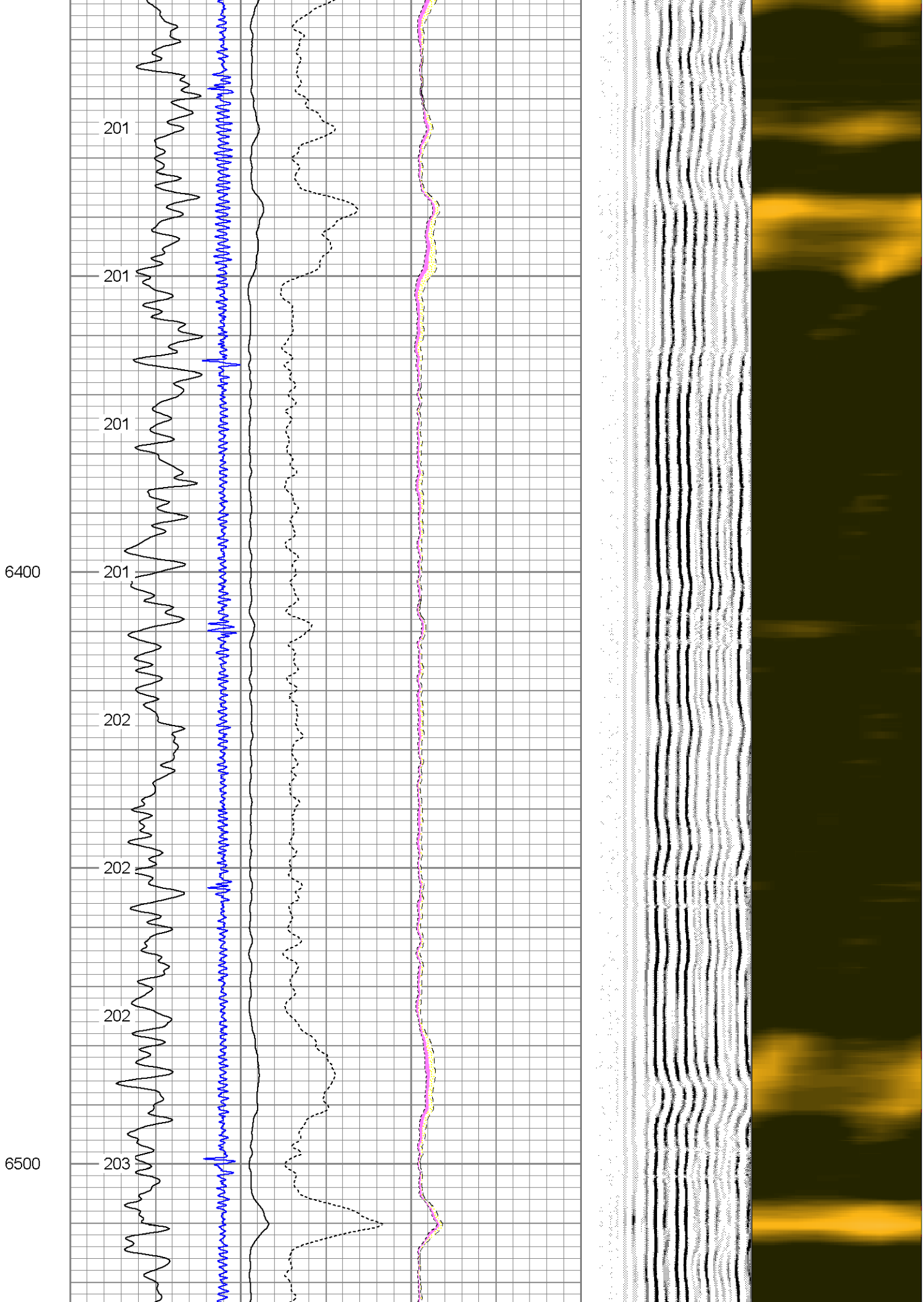
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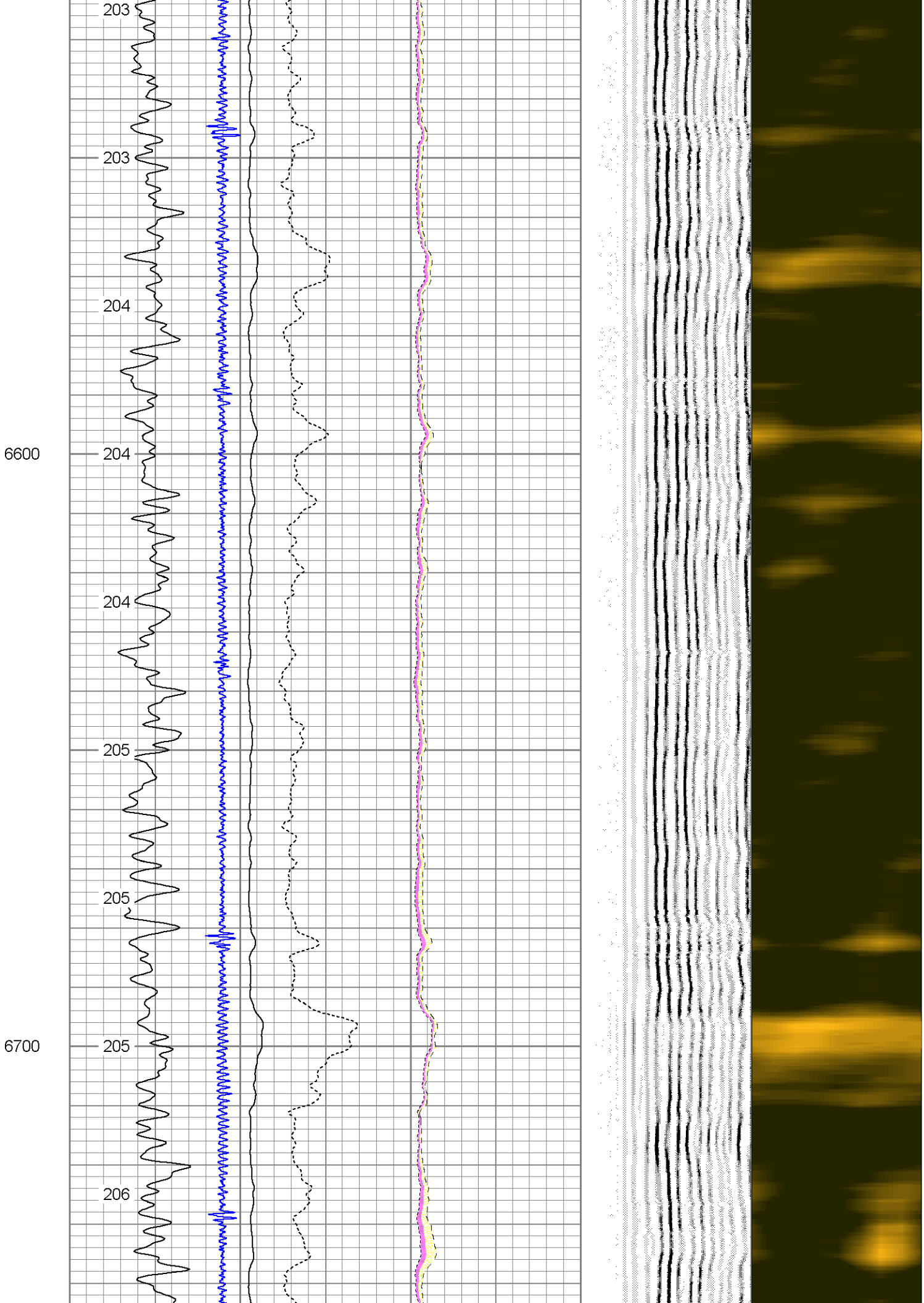
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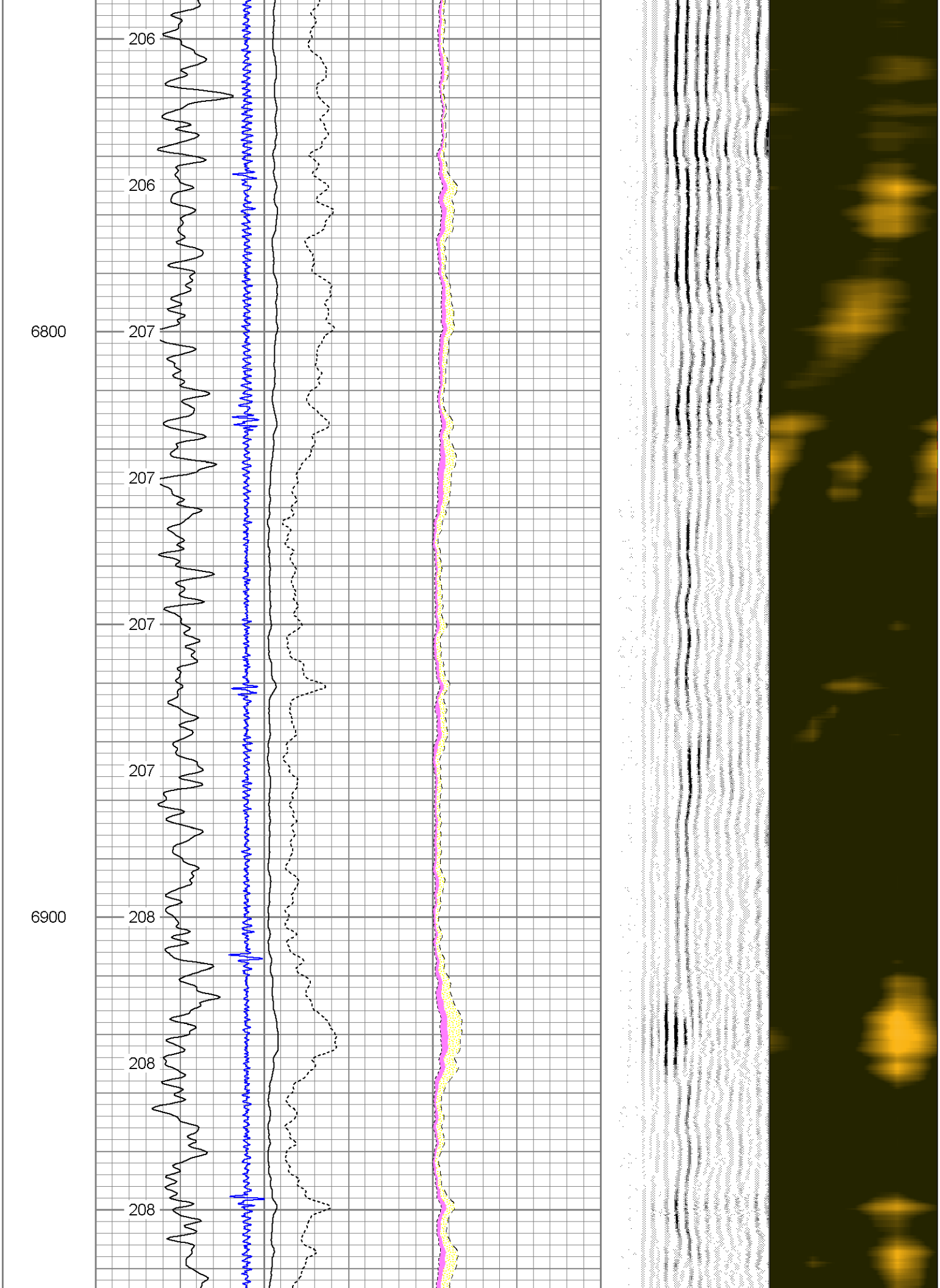
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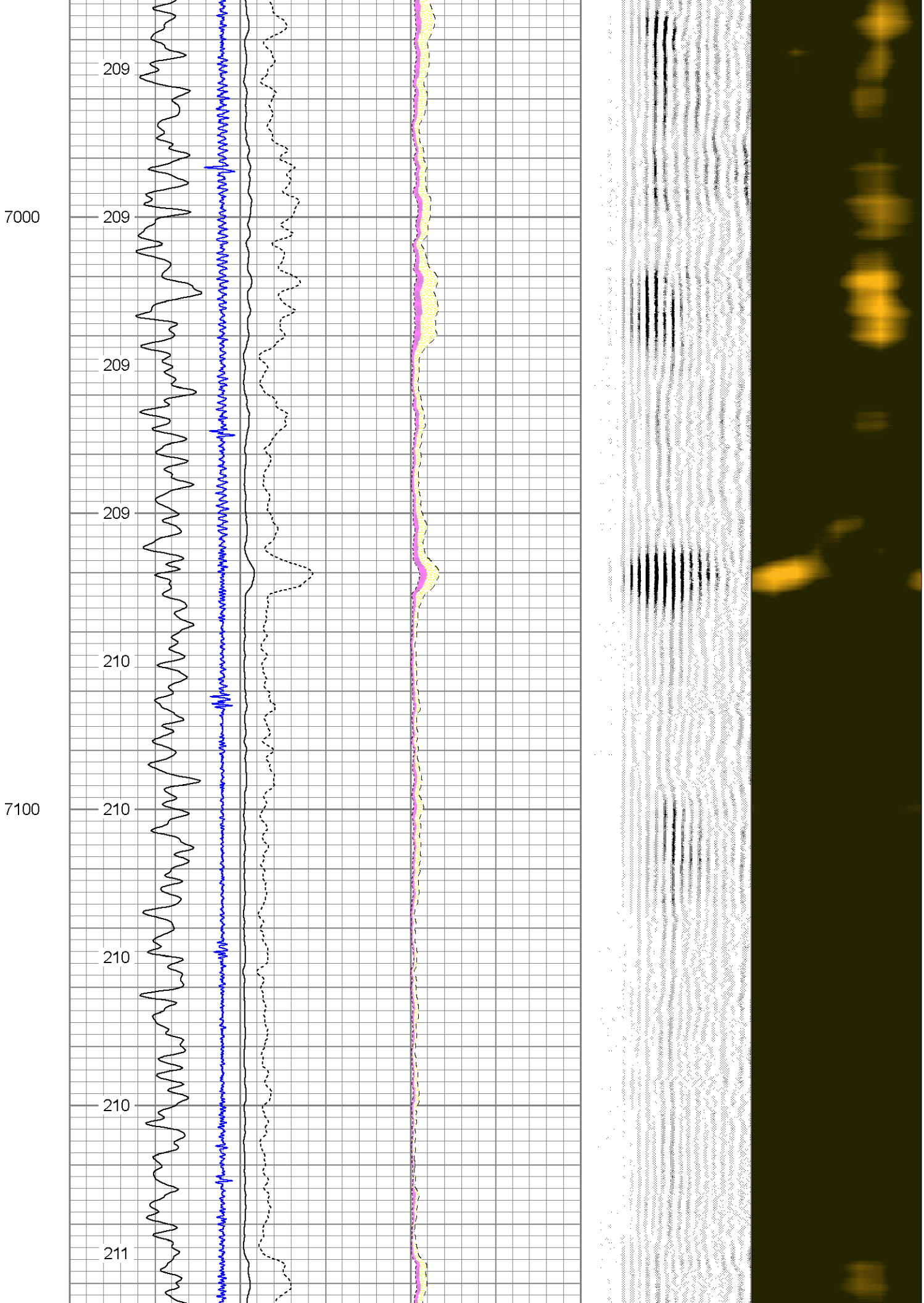
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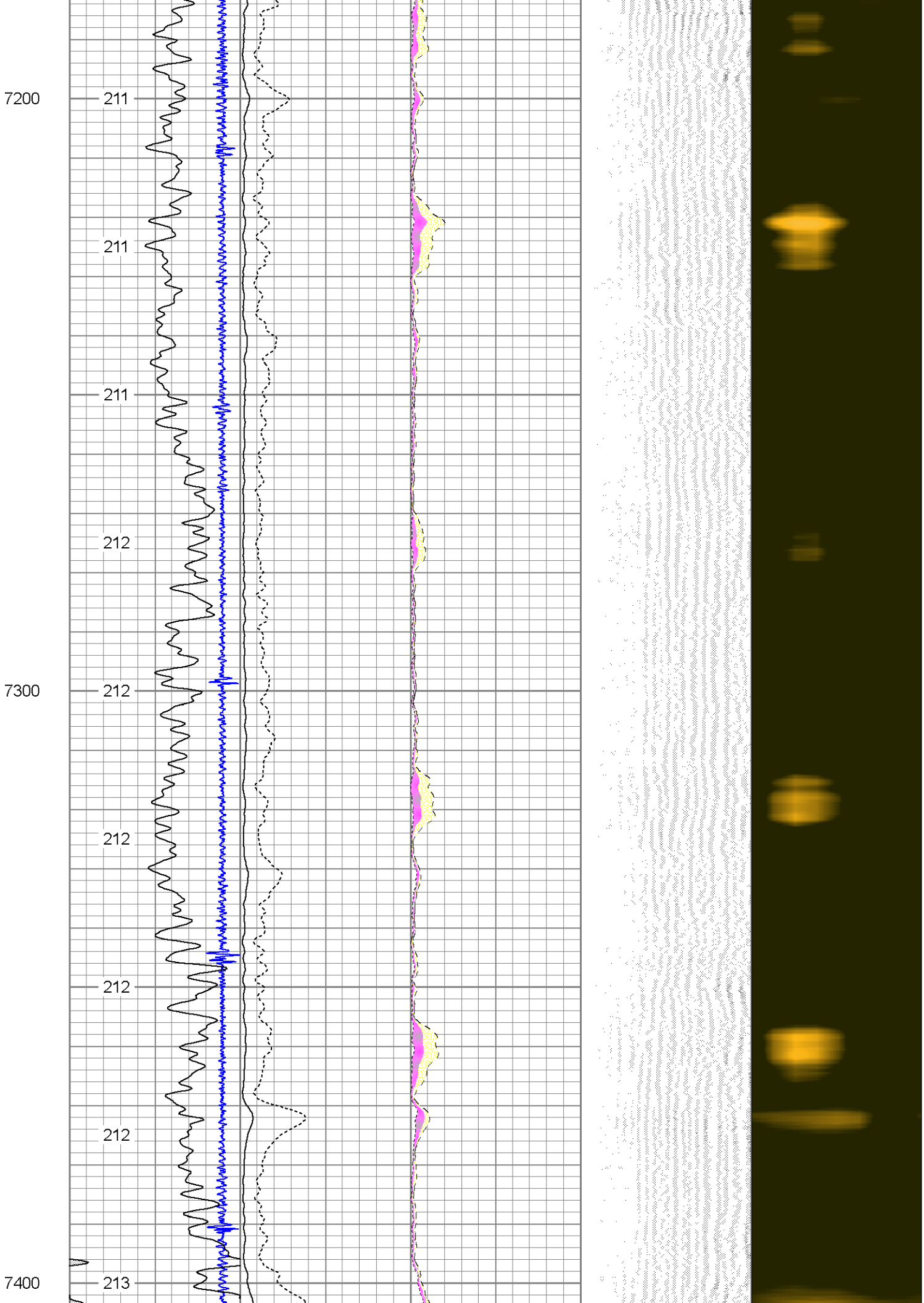
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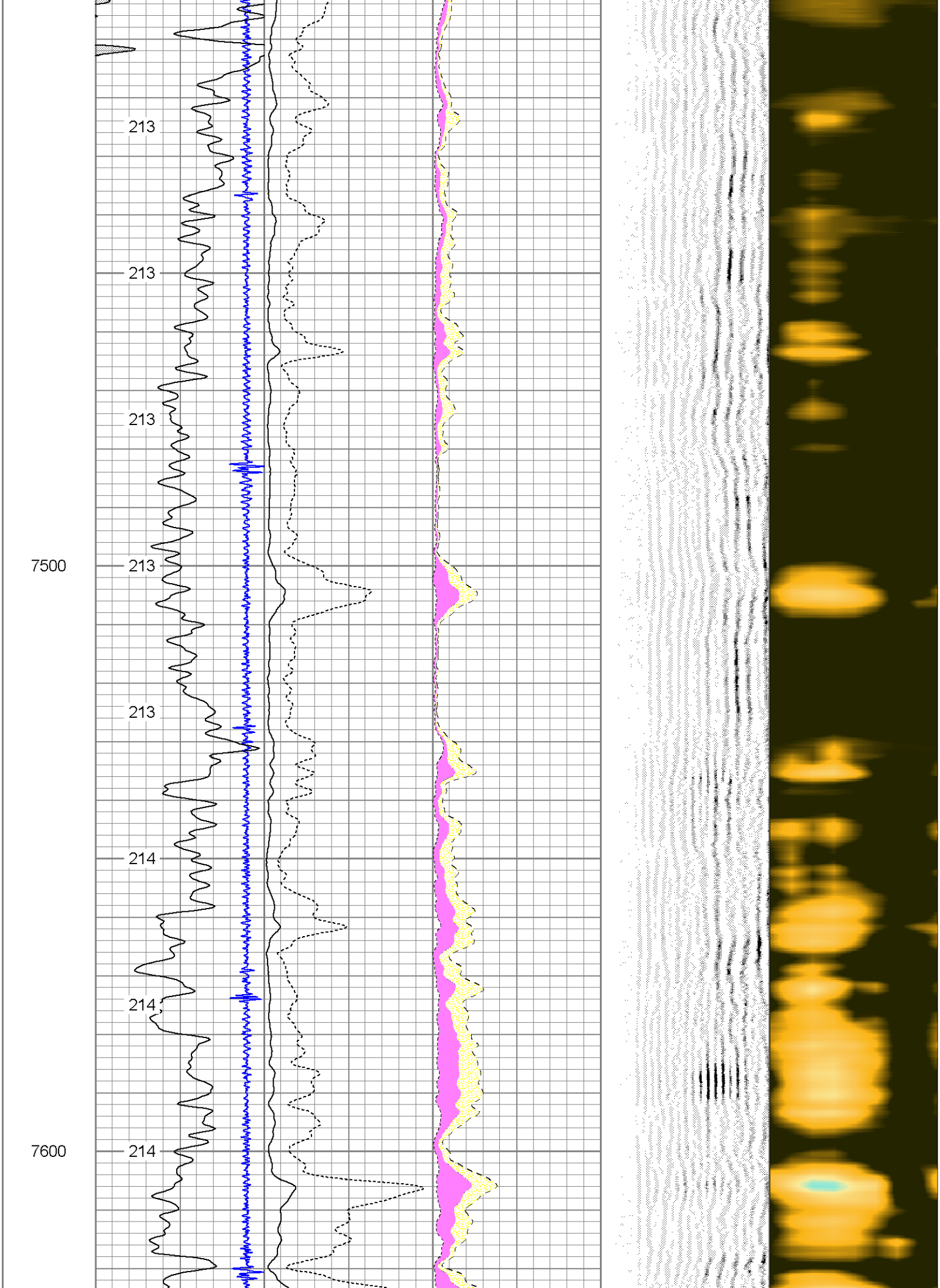
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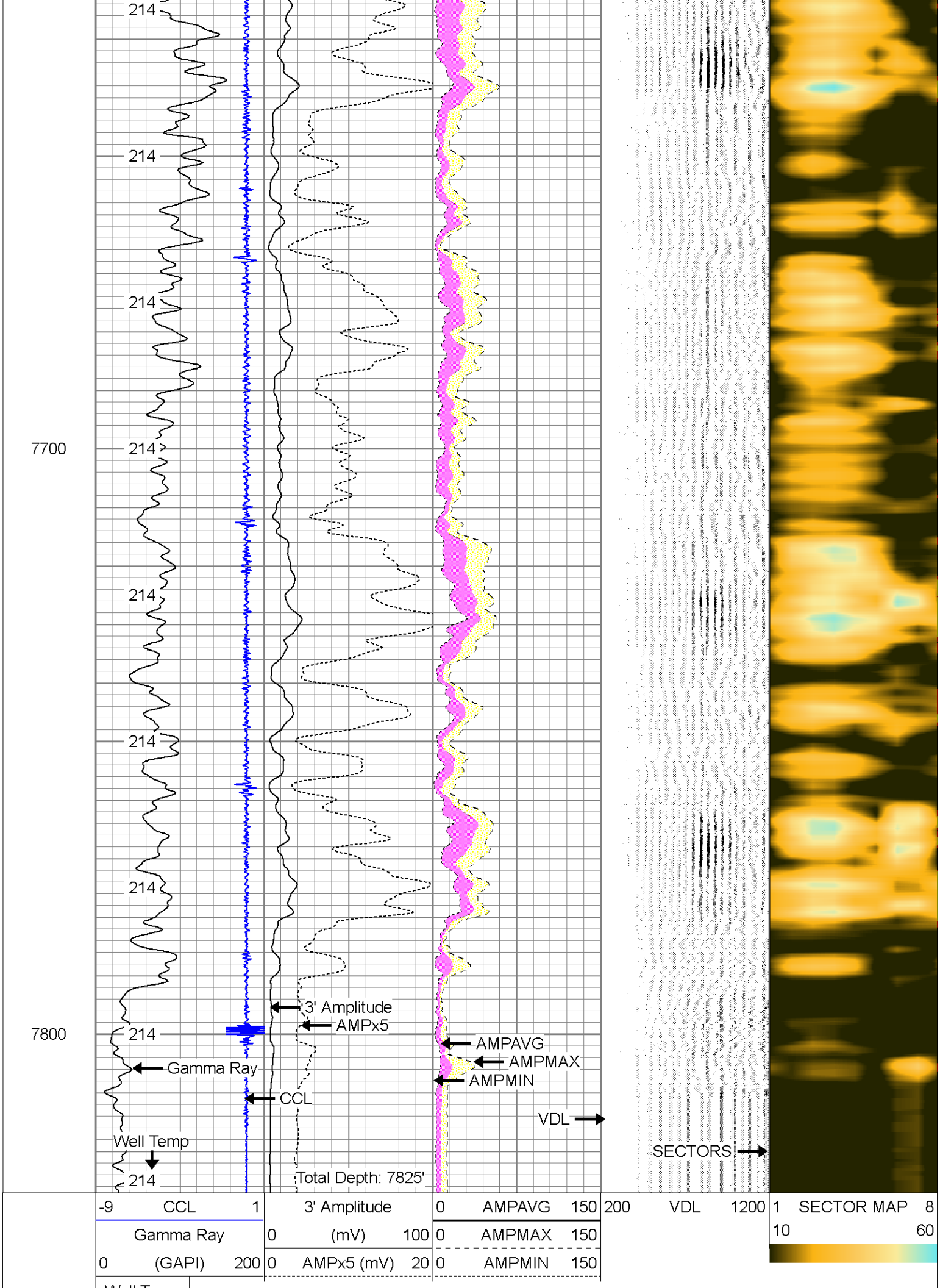
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Gamma Ray
Well Temp
CCL
3' Amplitude
AMPx5
AMPAVG
AMPMAX
AMPMIN
VDL
SECTORS
Total Depth: 7825'
-9 CCL 1
Gamma Ray
0 (GAPI) 200
3' Amplitude
0 (mV) 100
0 AMPx5 (mV) 20
0 AMPAVG 150
0 AMPMAX 150
0 AMPMIN 150
200 VDL 1200
1 SECTOR MAP 8
10 60

Well Temp
(degF)

Calibration Report

Database File: grant hurt 1g-14h g268_rbl.db
Dataset Pathname: rbl/pass1
Dataset Creation: Mon Sep 22 15:27:14 2014 by Log 7.0 B1

Temperature Calibration Report

Serial Number: 0001
Tool Model: 1.375TEMP
Performed: Mon Jun 23 08:05:16 2014

	Reference	Reading
Low Reference:	56.00 degF	596.00 cps
High Reference:	100.00 degF	1200.00cps

Gain: 0.09
Offset: 12.00
Delta Spacing 2

Gamma Ray Calibration Report

Serial Number: 11205
Tool Model: Probe
Performed: Sun Sep 21 11:44:34 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: 5.500 in
Calibration Depth: 0.000 ft

Master Calibration, performed Mon Sep 22 02:57:39 2014:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.022	0.701	0.983	83.165	140.000	-1.650
CAL	0.000	1.006				
5'	0.011	0.677	0.983	83.165	123.348	-0.324
SUM						
S1	0.037	0.690	0.000	100.000	153.099	-5.651
S2	0.034	0.696	0.000	100.000	150.877	-5.076
S3	0.036	0.693	0.000	100.000	152.222	-5.441
S4	0.036	0.698	0.000	100.000	151.099	-5.401
S5	0.037	0.697	0.000	100.000	151.524	-5.616
S6	0.037	0.700	0.000	100.000	150.932	-5.638
S7	0.038	0.707	0.000	100.000	149.391	-5.675
S8	0.036	0.677	0.000	100.000	156.038	-5.570

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	0.000	1.006	1.000	0.000

Air Zero Calibration, performed Wed Dec 31 17:00:00 1969:

	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

PIONEER

Pioneer Energy Services

Company	ENCANA OIL & GAS (USA) INC
Well	GRANT HURT 1G-14H G268
Field	WATTENBERG
County	WELD
State	CO