



Pioneer Energy Services

# SECTOR BOND LOG GAMMA RAY CCL VDL

Company	EnCana Oil & Gas (USA) Inc.	Country	USA
Well	Vogl-McCoy 2D-5H-E267		
Field	Wattenberg		
County	Weld		
State	Colorado		
Location:	SHL: 2602' FNL & 361' FWL SEC 5 TWP 2N RGE 67W SWNW	API #: 05123378200000	Other Services None
Permanent Datum	GL	Elevation	4836
Log Measured From	KB		K.B. 4866 D.F. 4866 G.L. 4836
Drilling Measured From	KB		

Date	March 23, 2014
Run Number	1
Depth Driller	15056
Depth Logger	7466
Bottom Logged Interval	7465
Top Log Interval	Surface
Open Hole Size	8-3/4"
Type Fluid	WBM
Density / Viscosity	10.5 / 40
Max. Recorded Temp.	NA
Estimated Cement Top	604
Time Well Ready	1015
Time Logger on Bottom	1145
Equipment Number	49
Location	Ft Morgan
Recorded By	Schuman
Witnessed By	Mr. Kevin Bergeron

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	9.625"	40#	Surf	NA
Prot. String	7"	26#	Surf	7480
Production String				
Liner				

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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

Log correlated to 7" casing tally

HP Drilling Rig 522

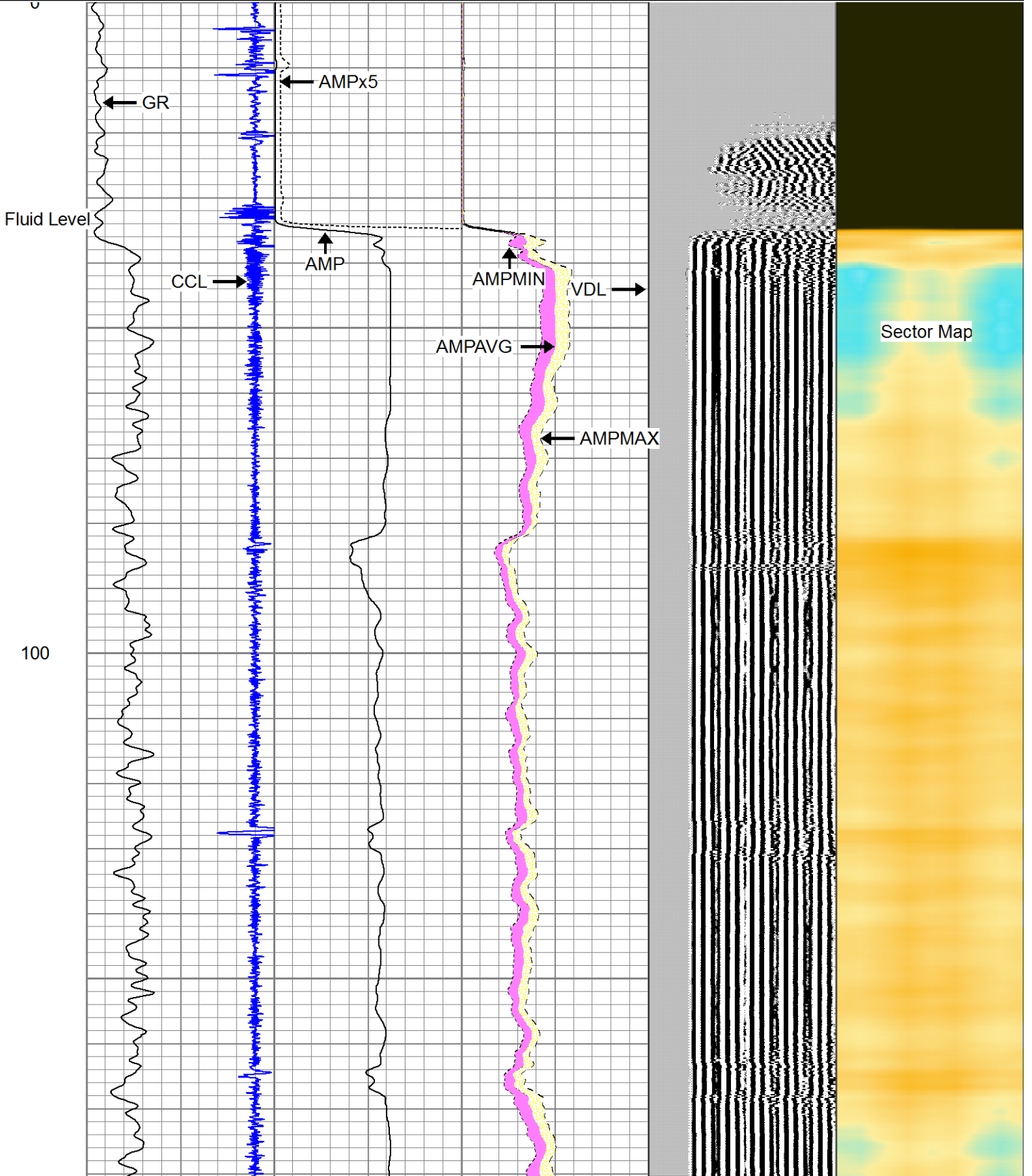
Thank You for using Pioneer Energy!  
SO# 13494

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			CENT #2 -A (1)	2.83	2.75	20.00



Database File: 13494.db  
 Dataset Pathname: rbl/main  
 Presentation Format: scbl02  
 Dataset Creation: Sun Mar 23 14:48:42 2014  
 Charted by: Depth in Feet scaled 1:240

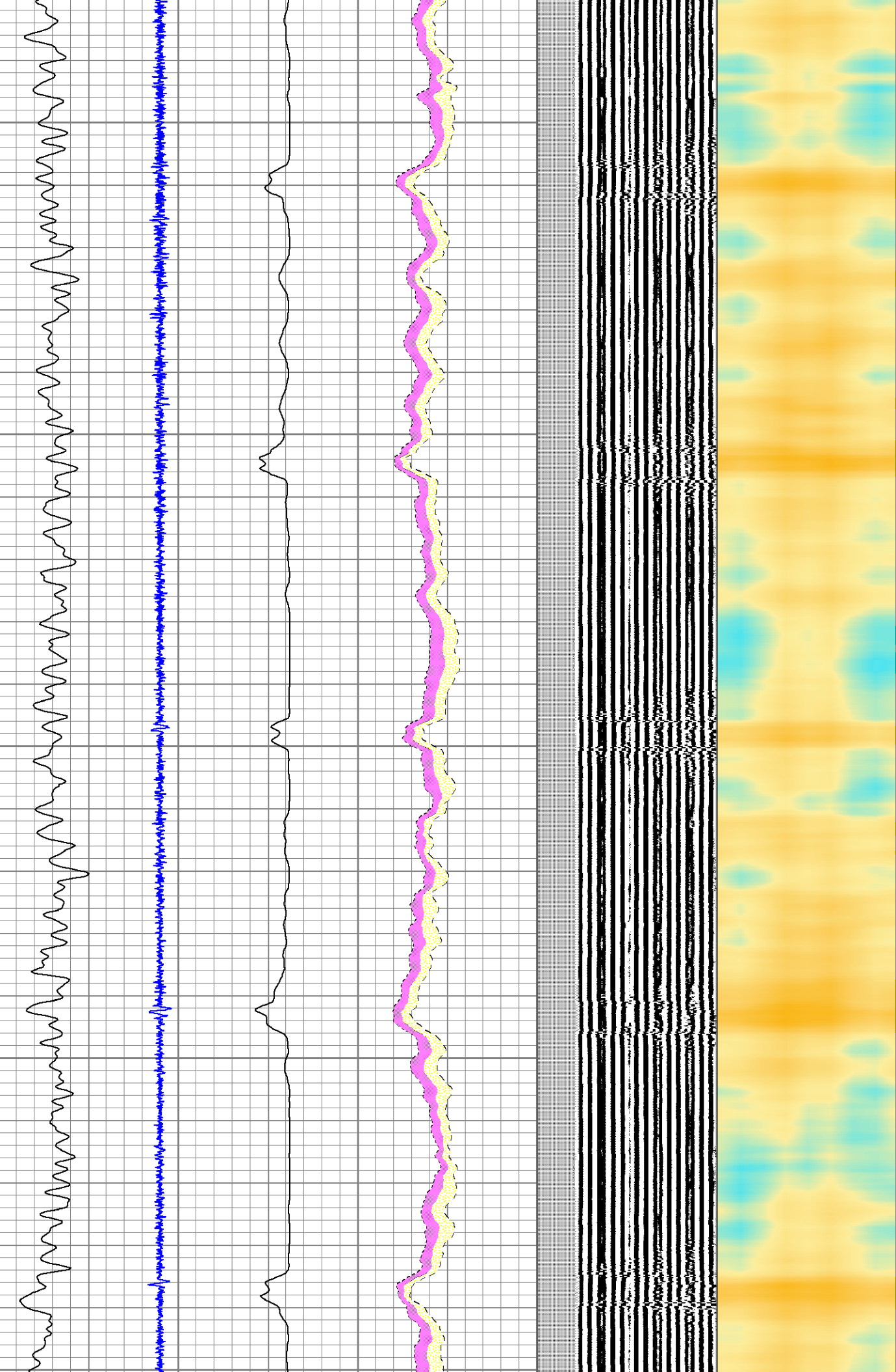
-9	CCL	1	0	AMP (mV)	100	0	AMPAVG	150	200	VDL	1200	1	SECTOR MAP	8
0	GR (GAPI)	200	0	AMPx5 (mV)	20	0	AMPMAX	150				7		122
						0	AMPMIN	150						



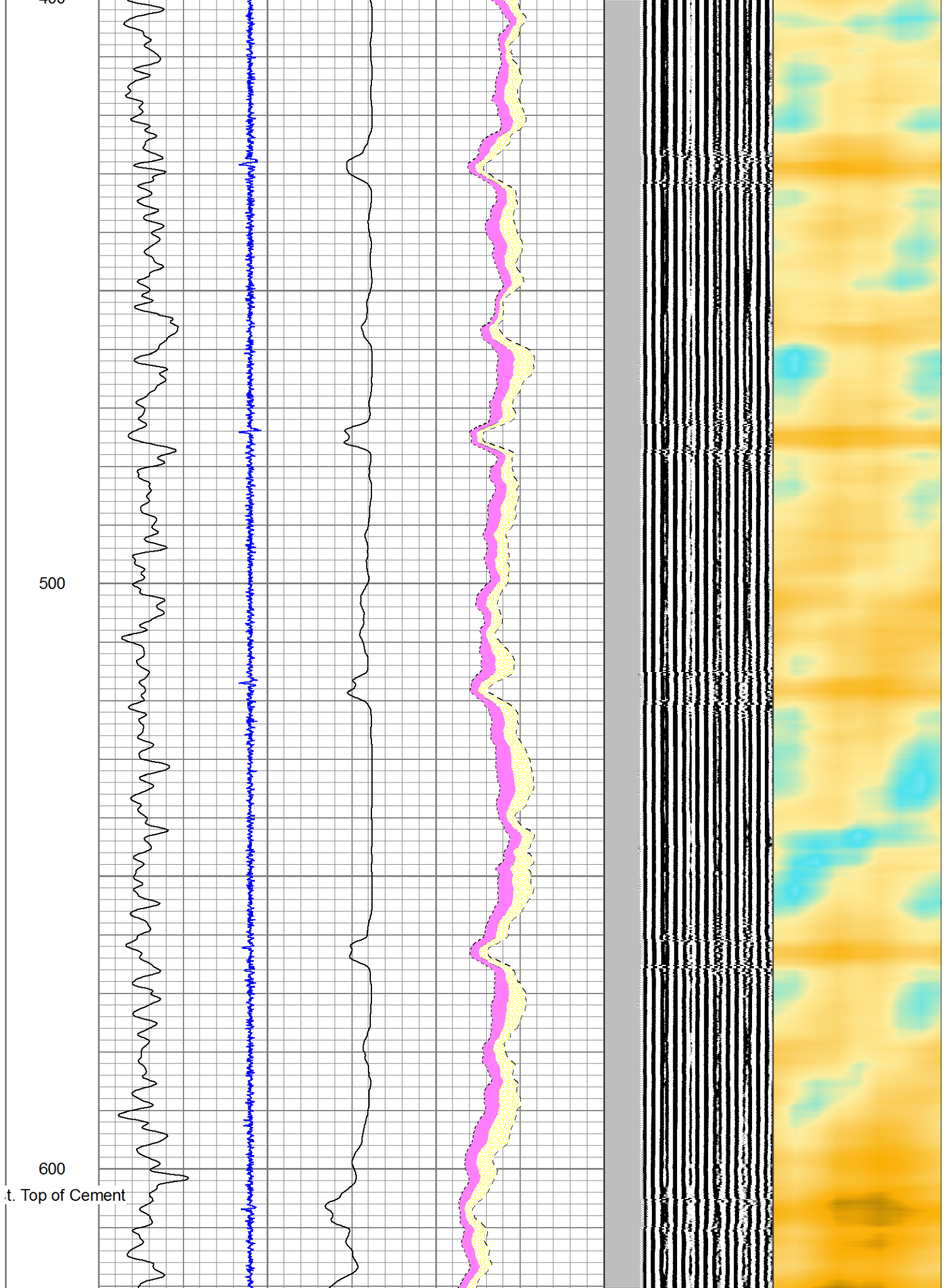
200

300

400

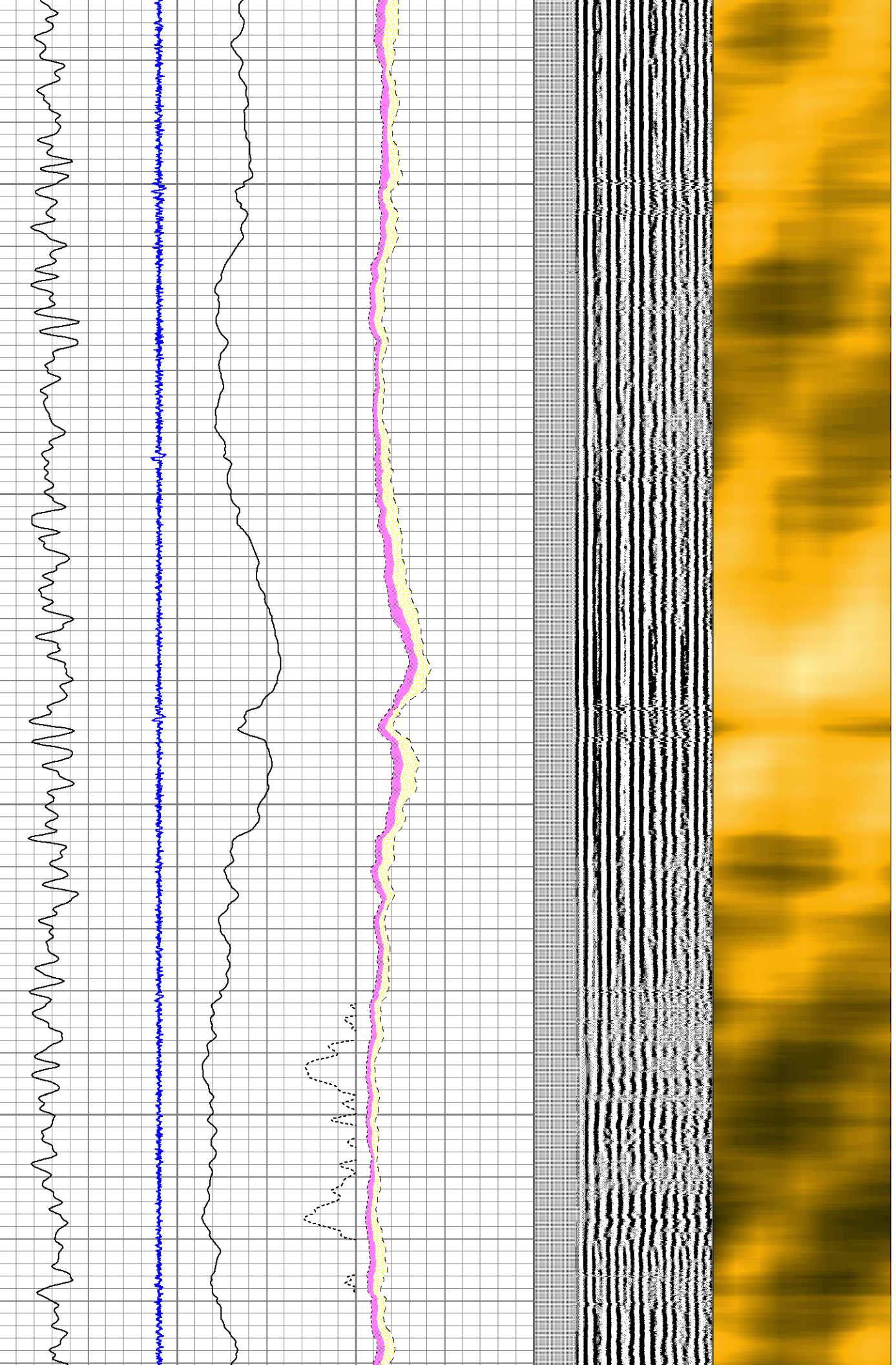






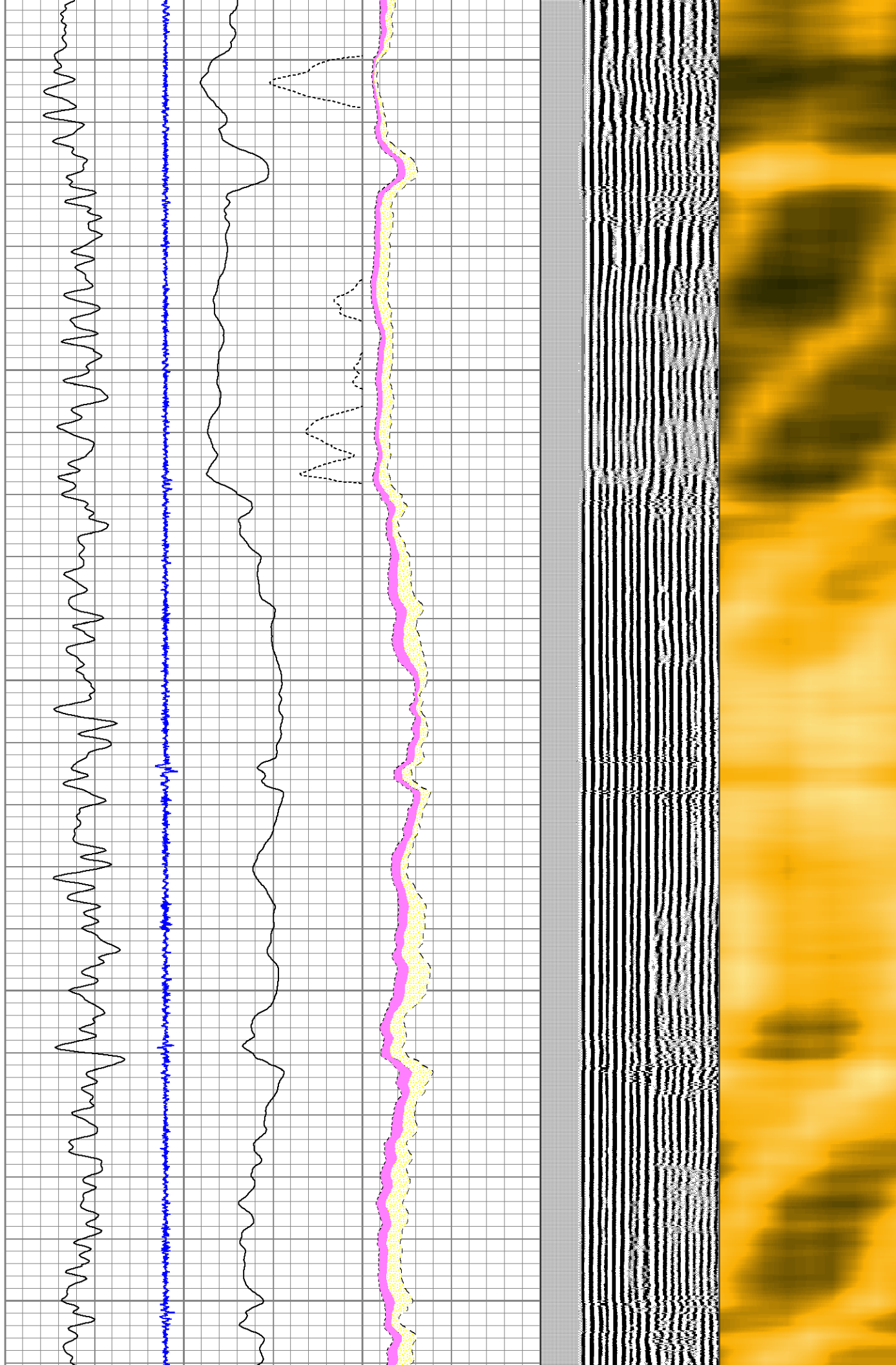
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800



900

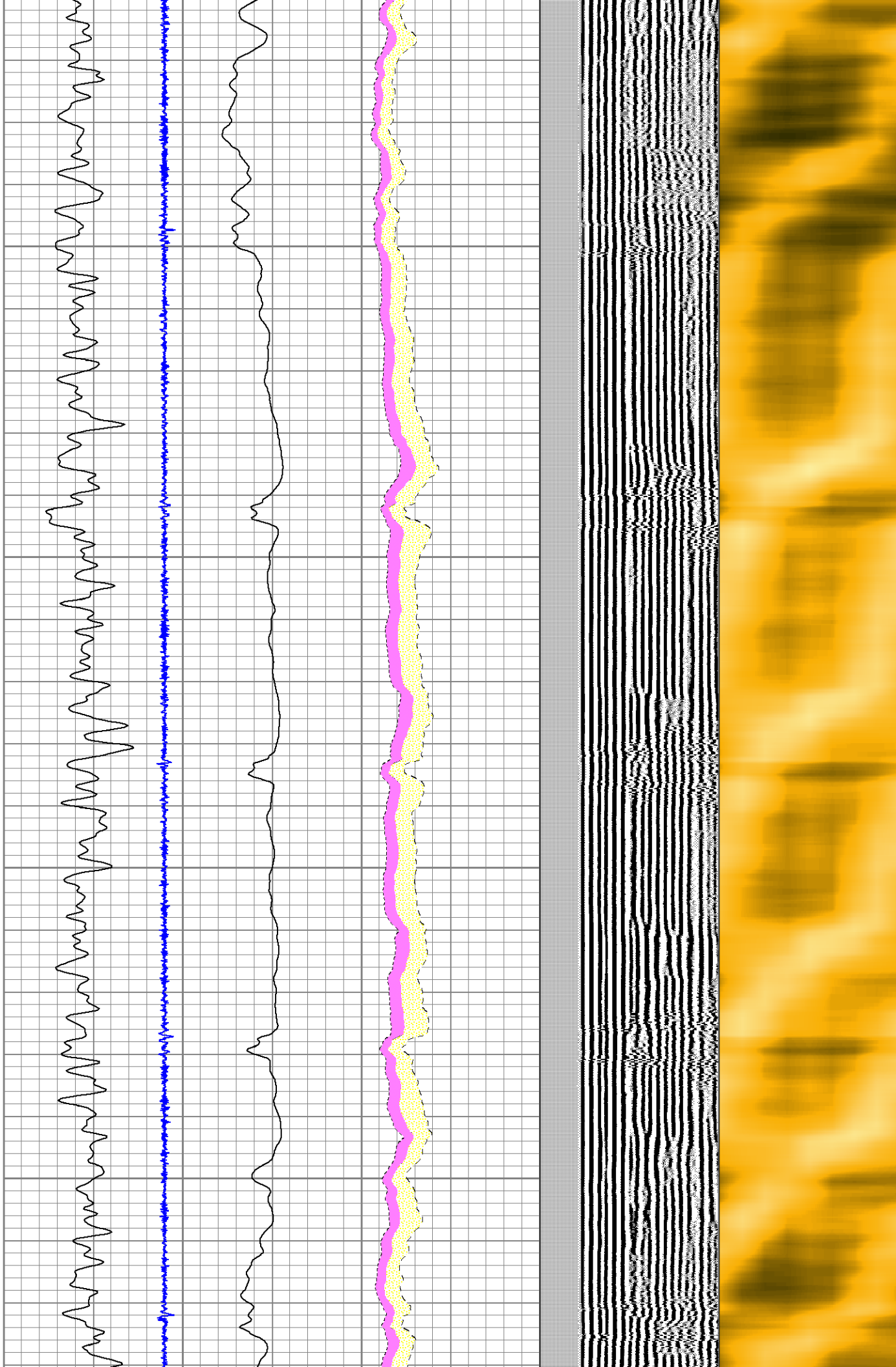
1000





1100

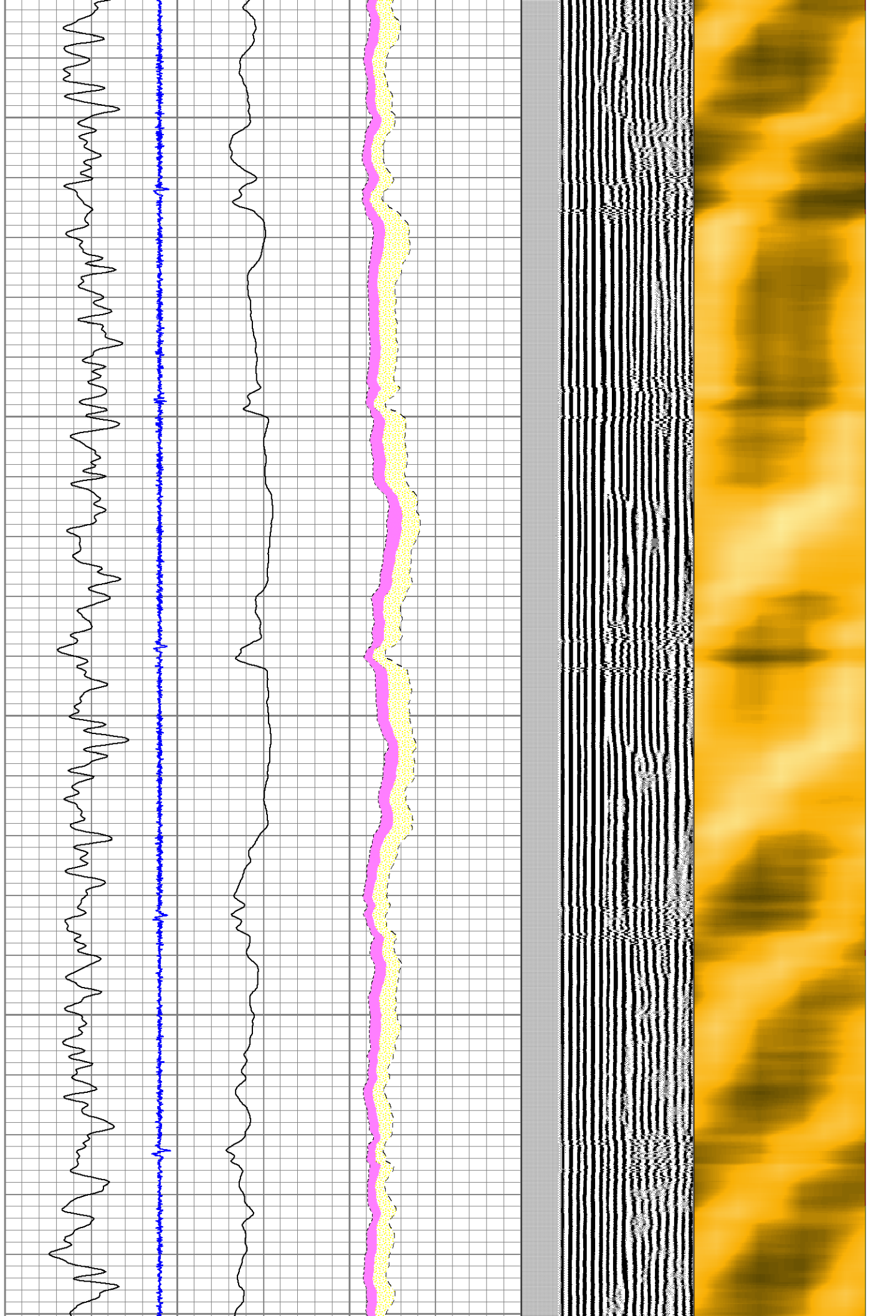
1200



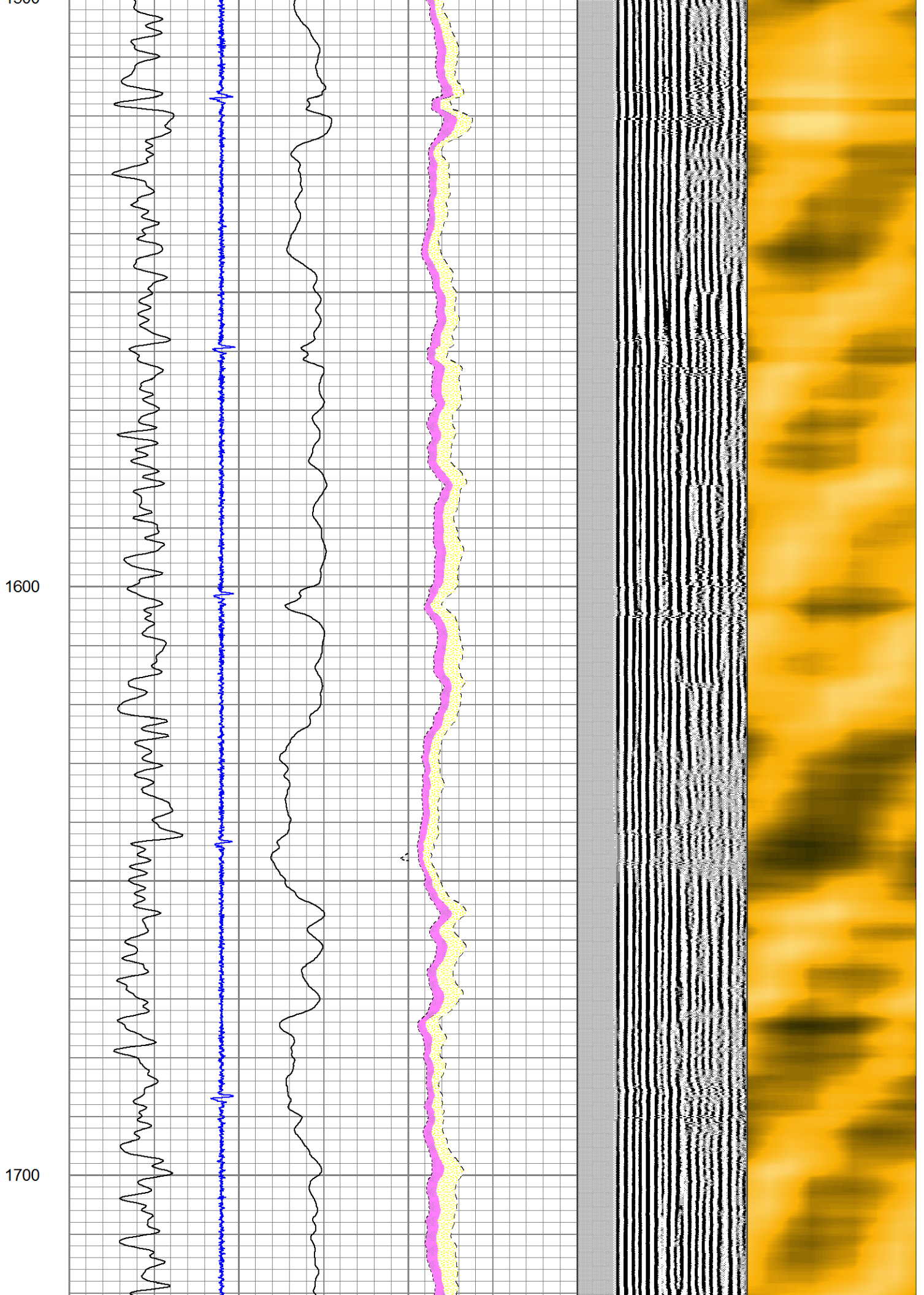
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1400

1500

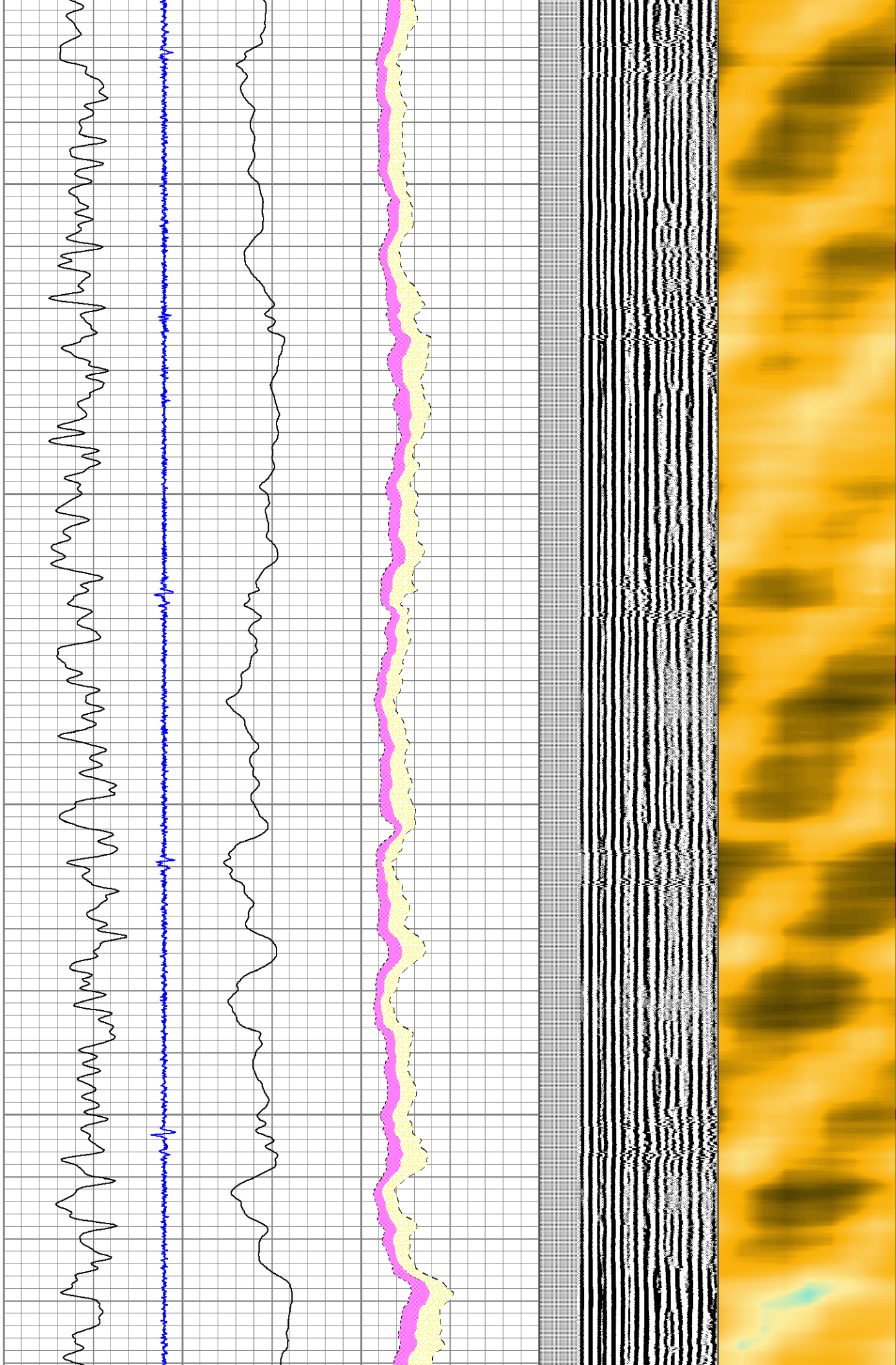






1800

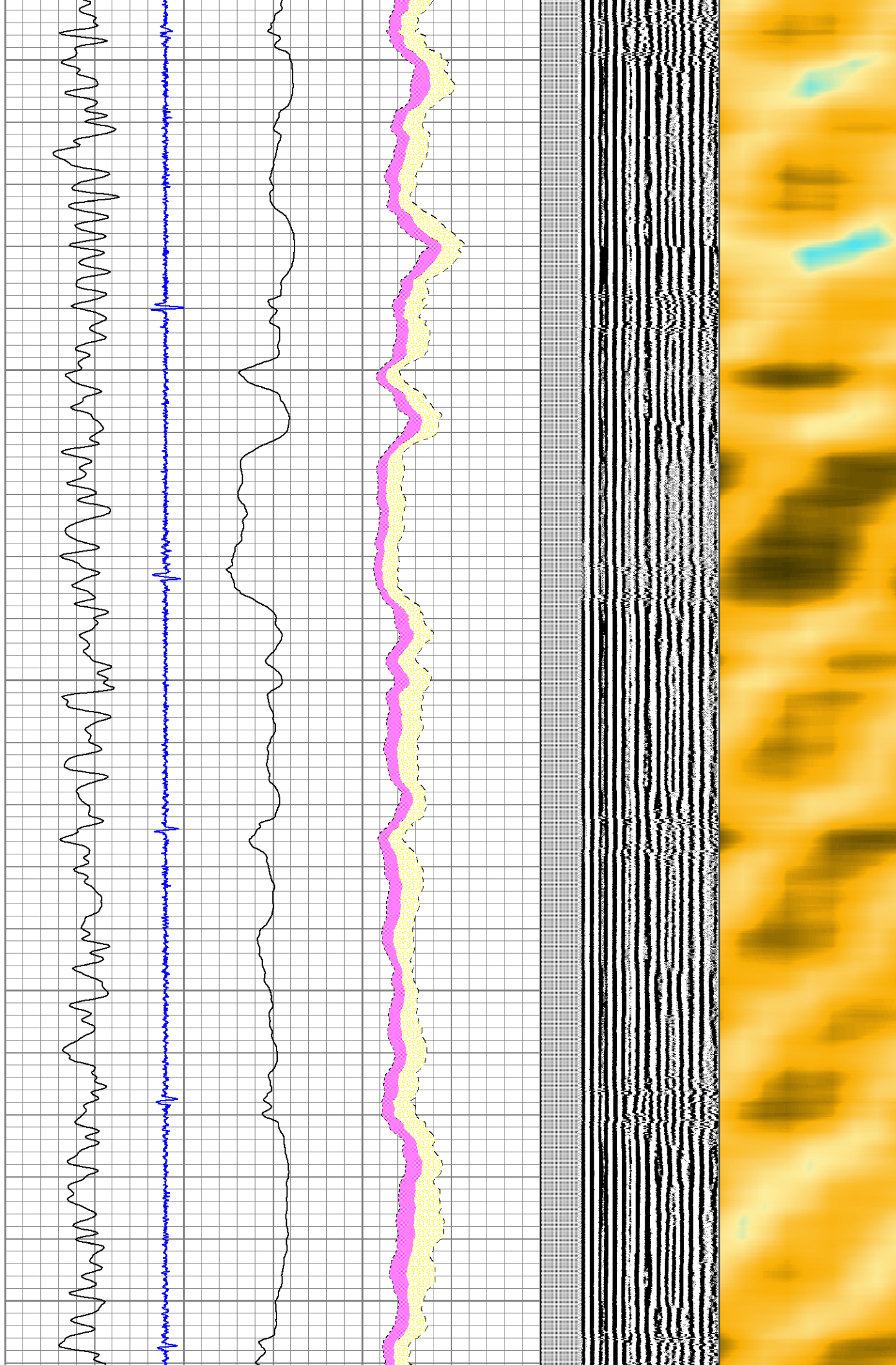
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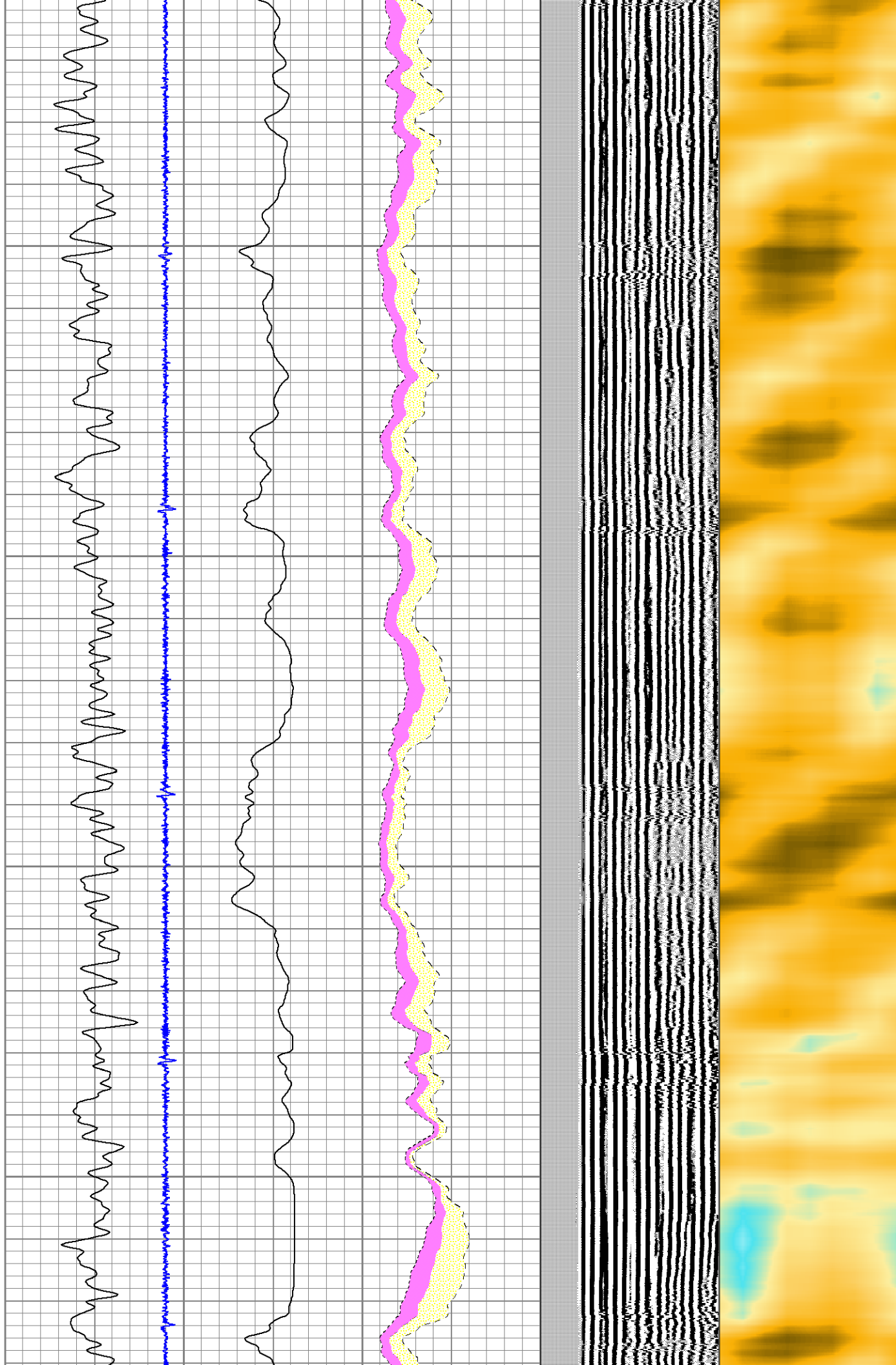
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2100



2200

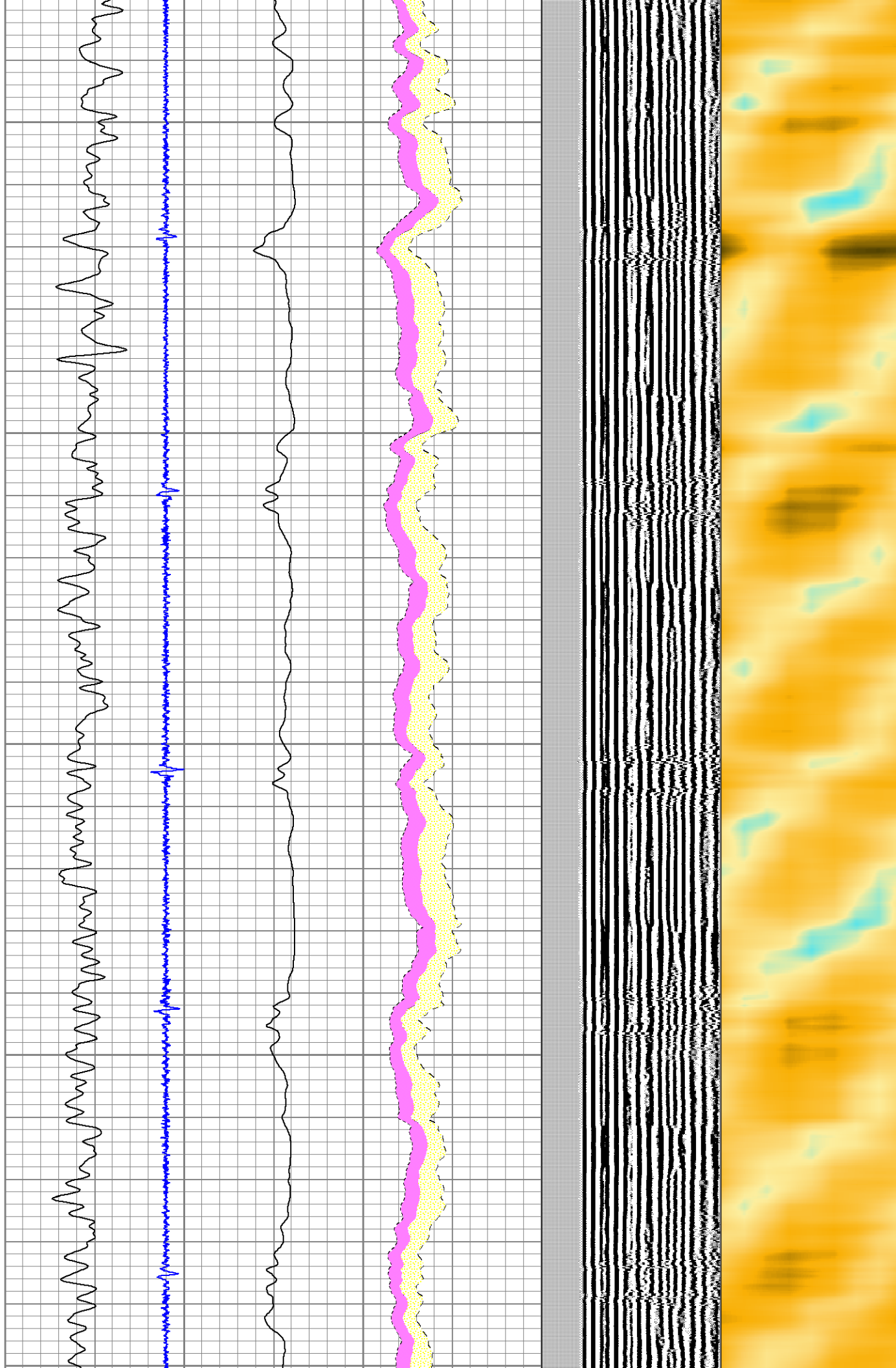
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2400

2500

2600

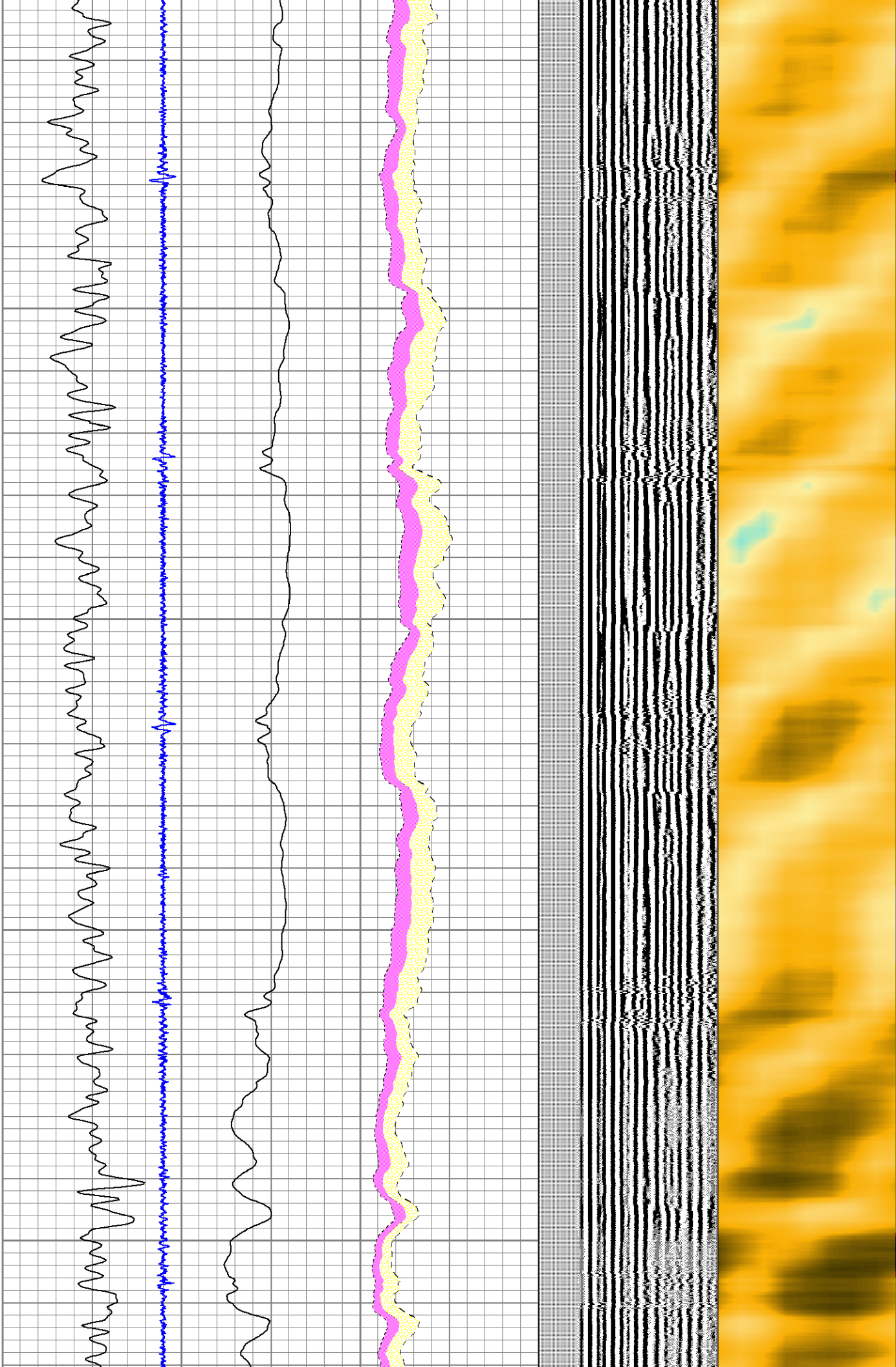




2600

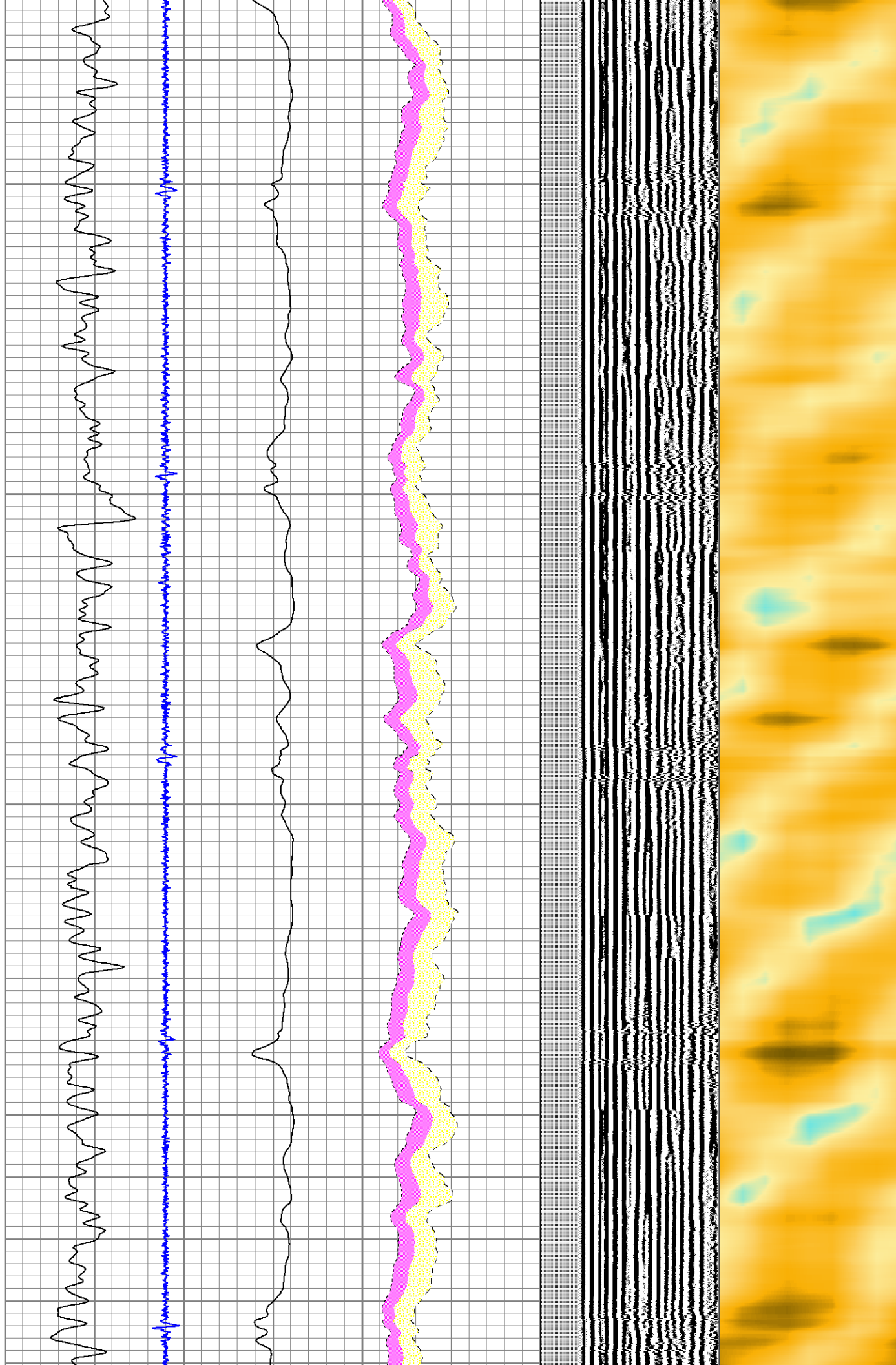
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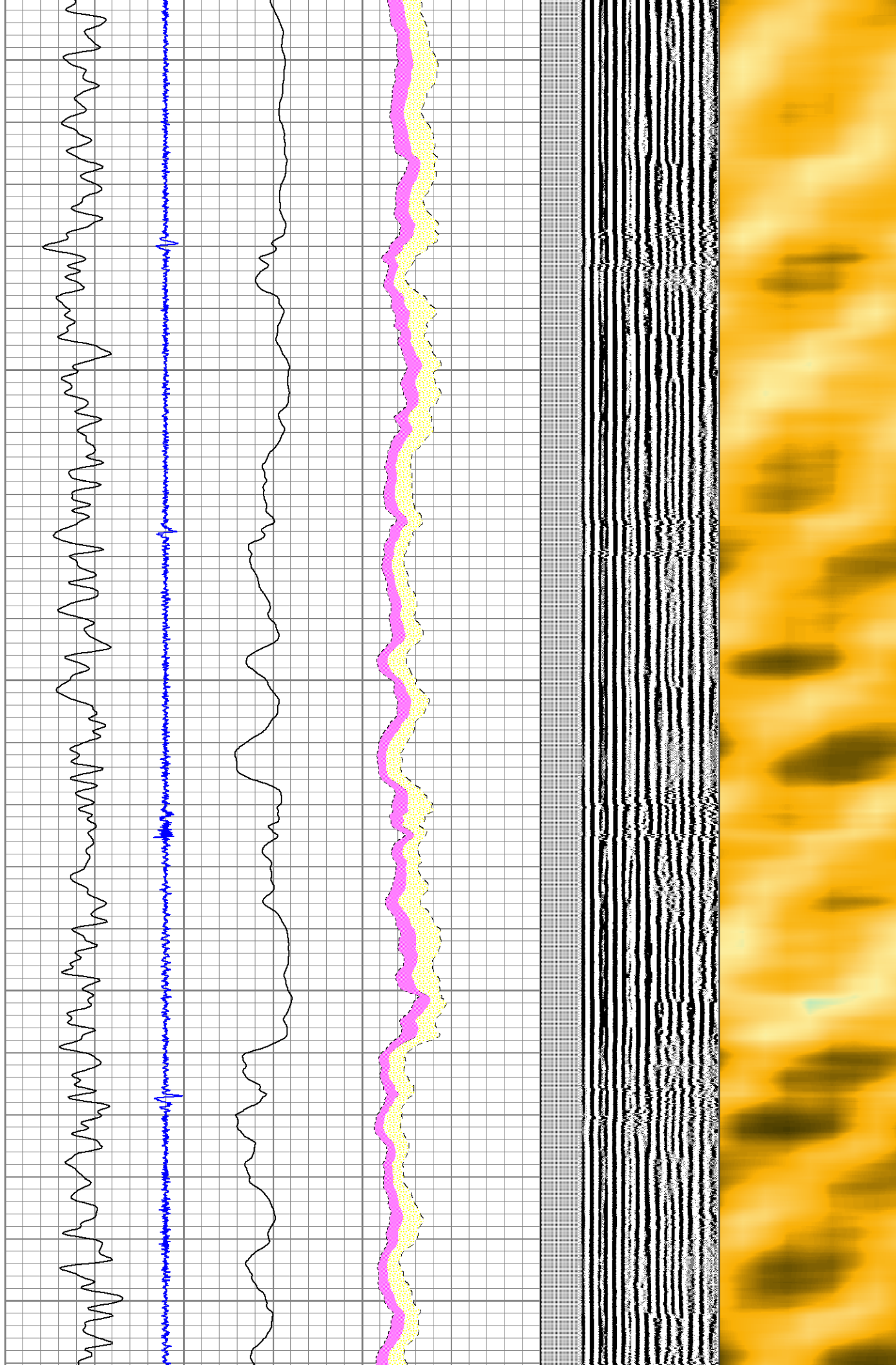
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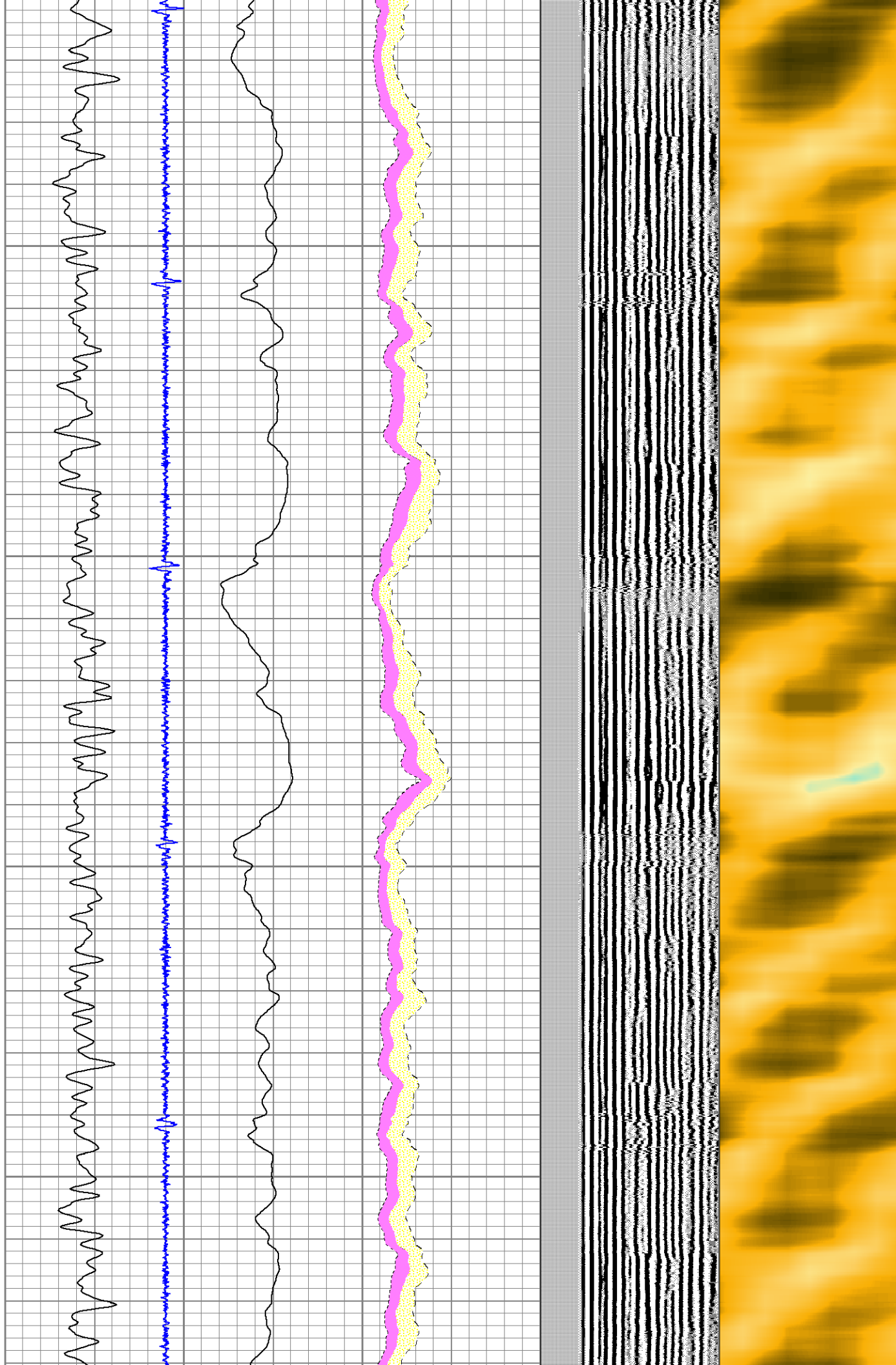
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3300

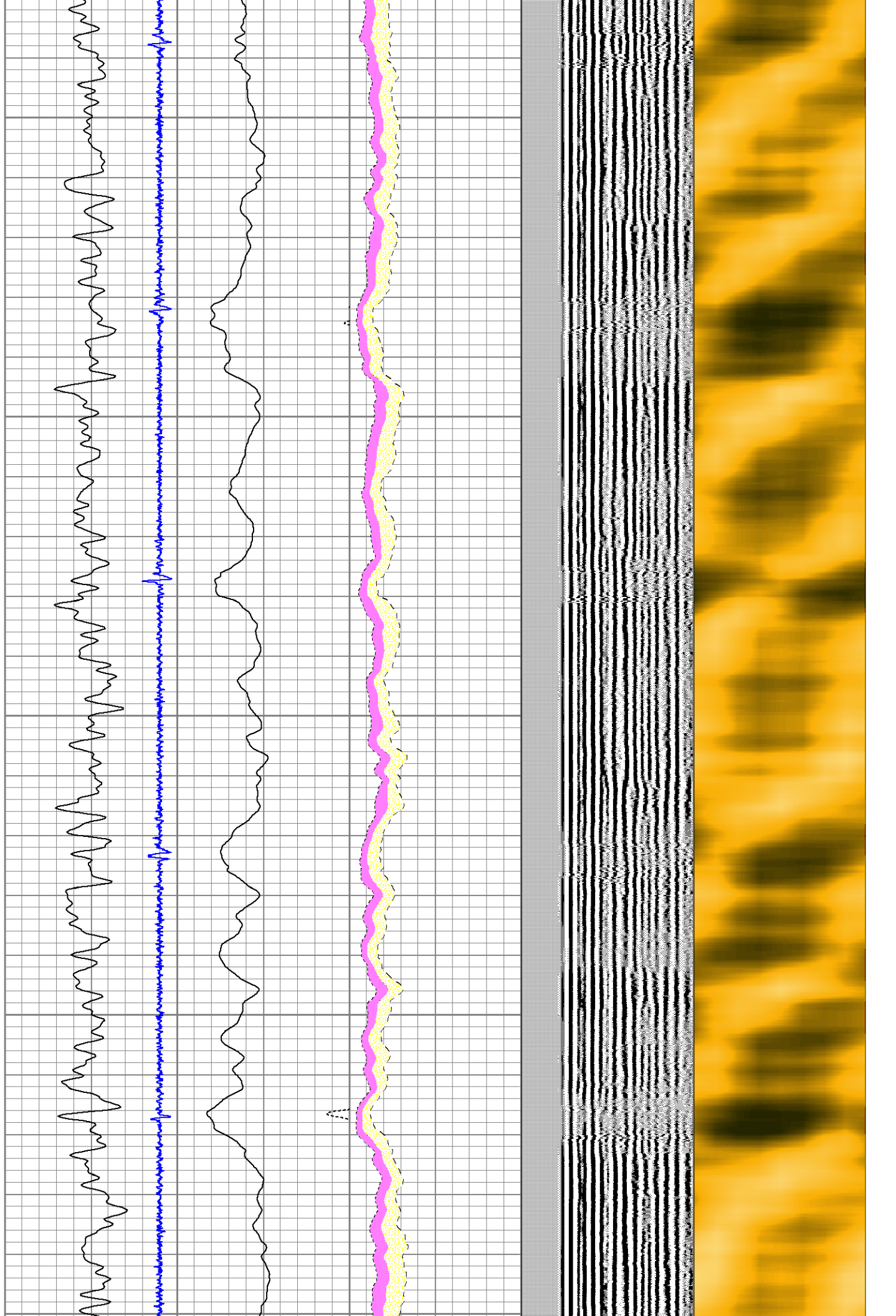
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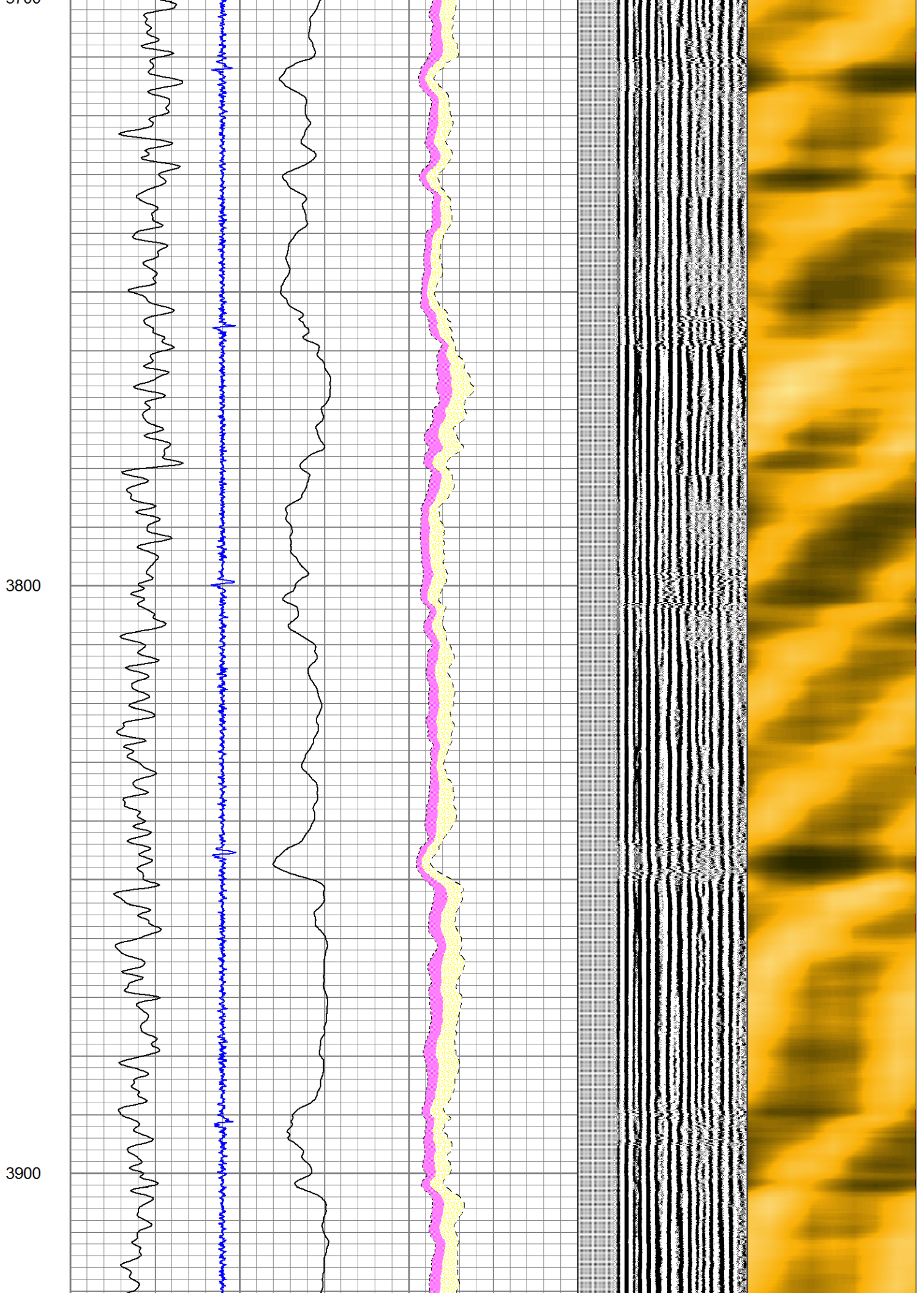
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3600

3700

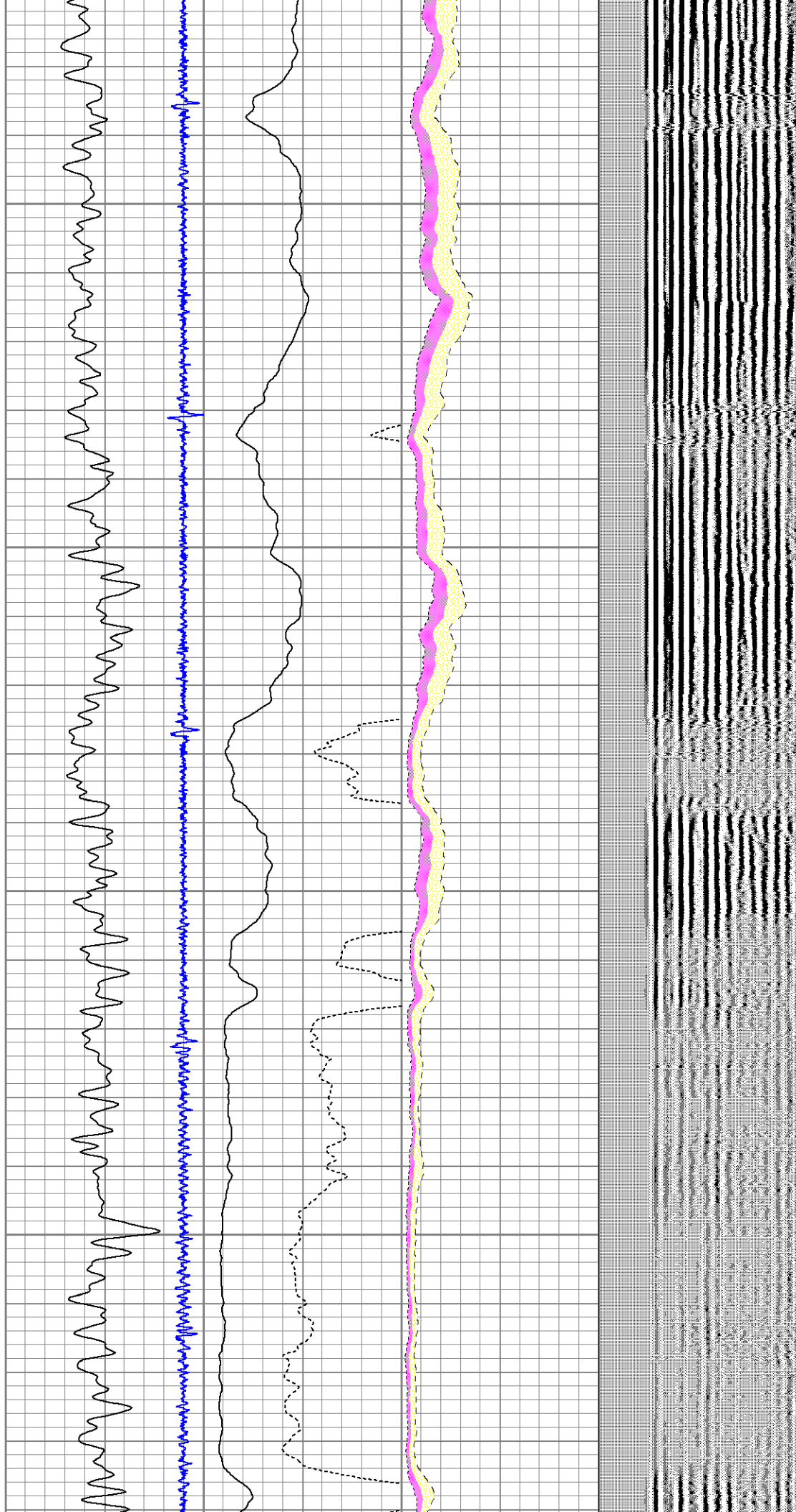






4000

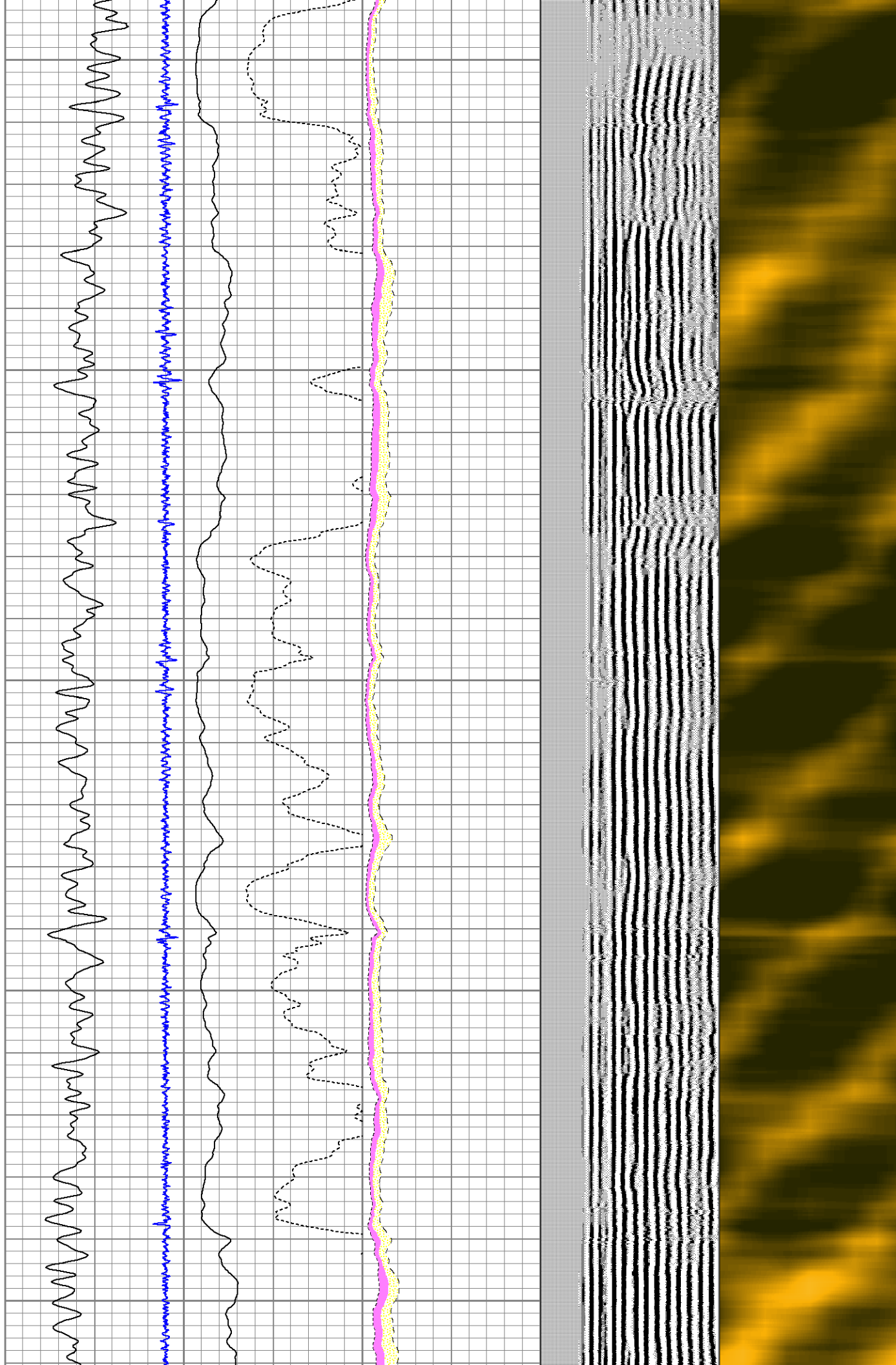
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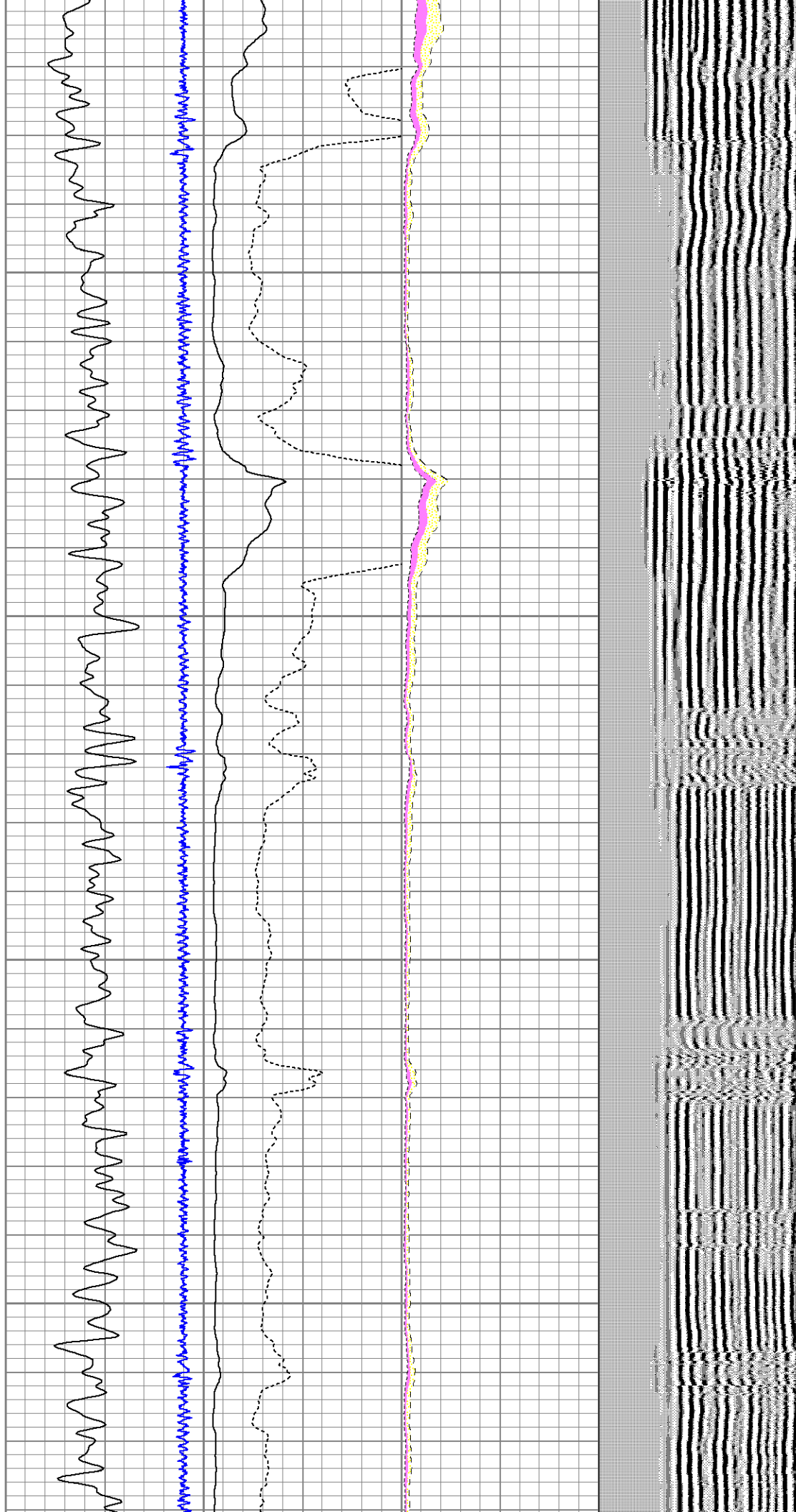
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4400

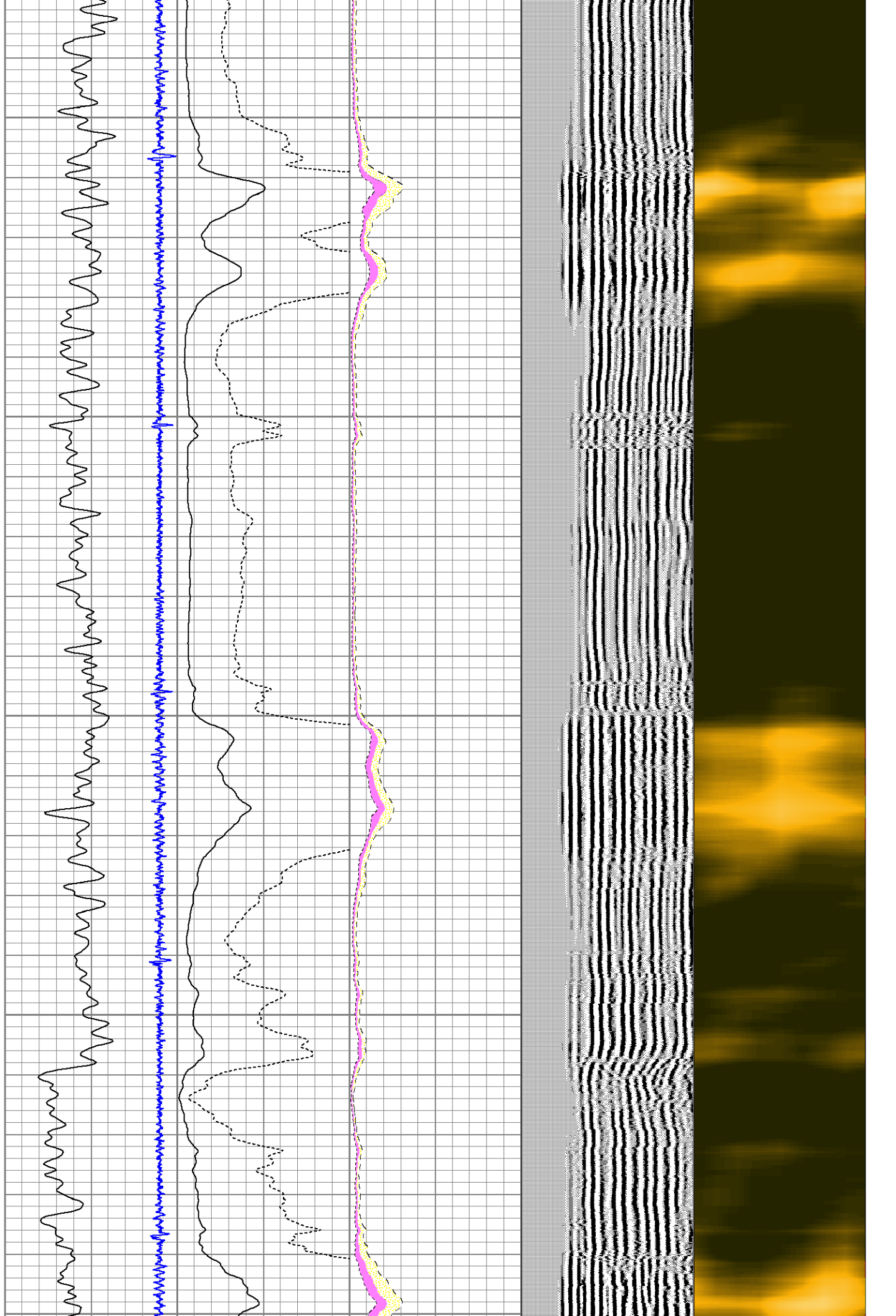
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4600

4700

4800

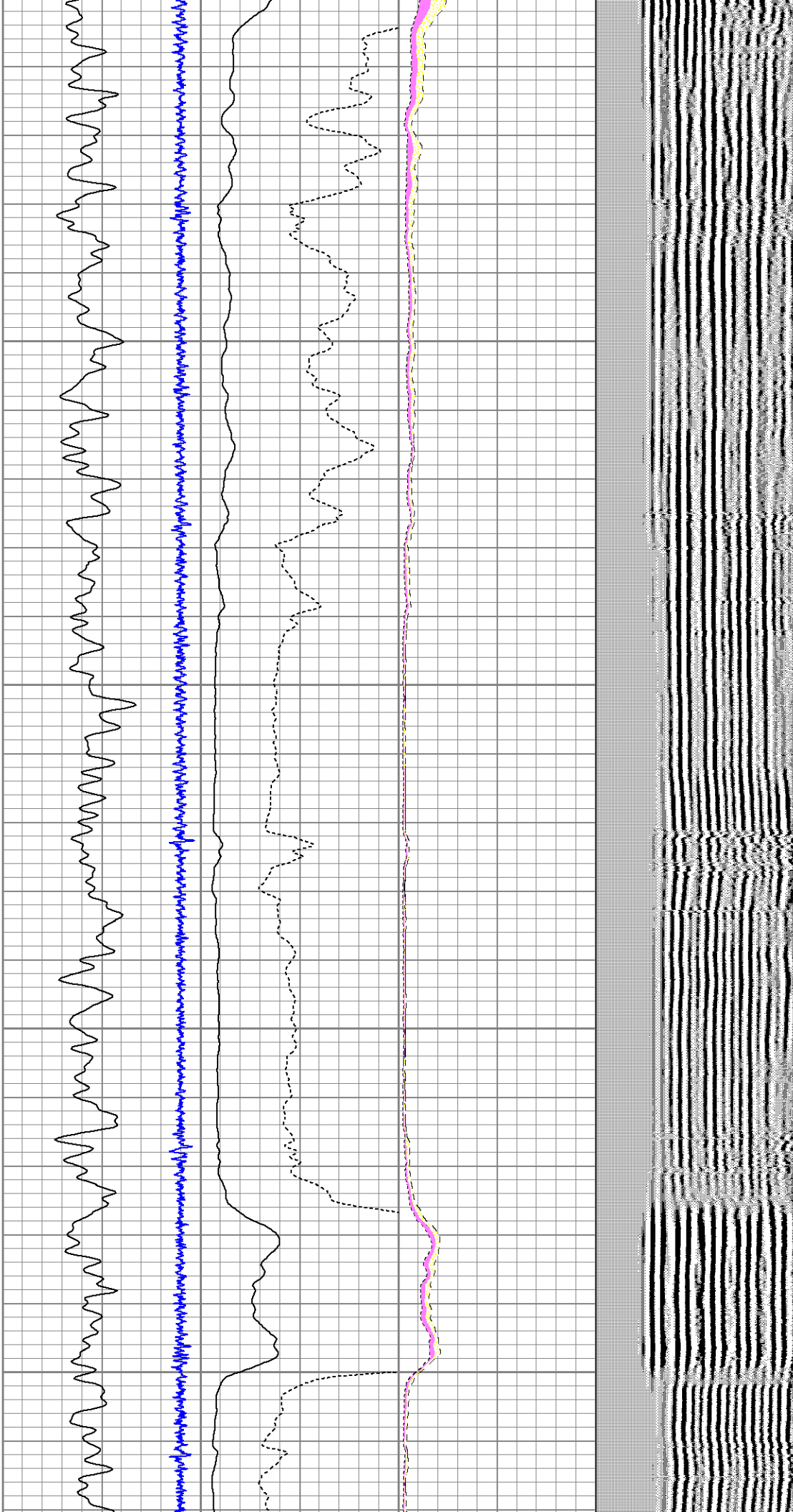




4880

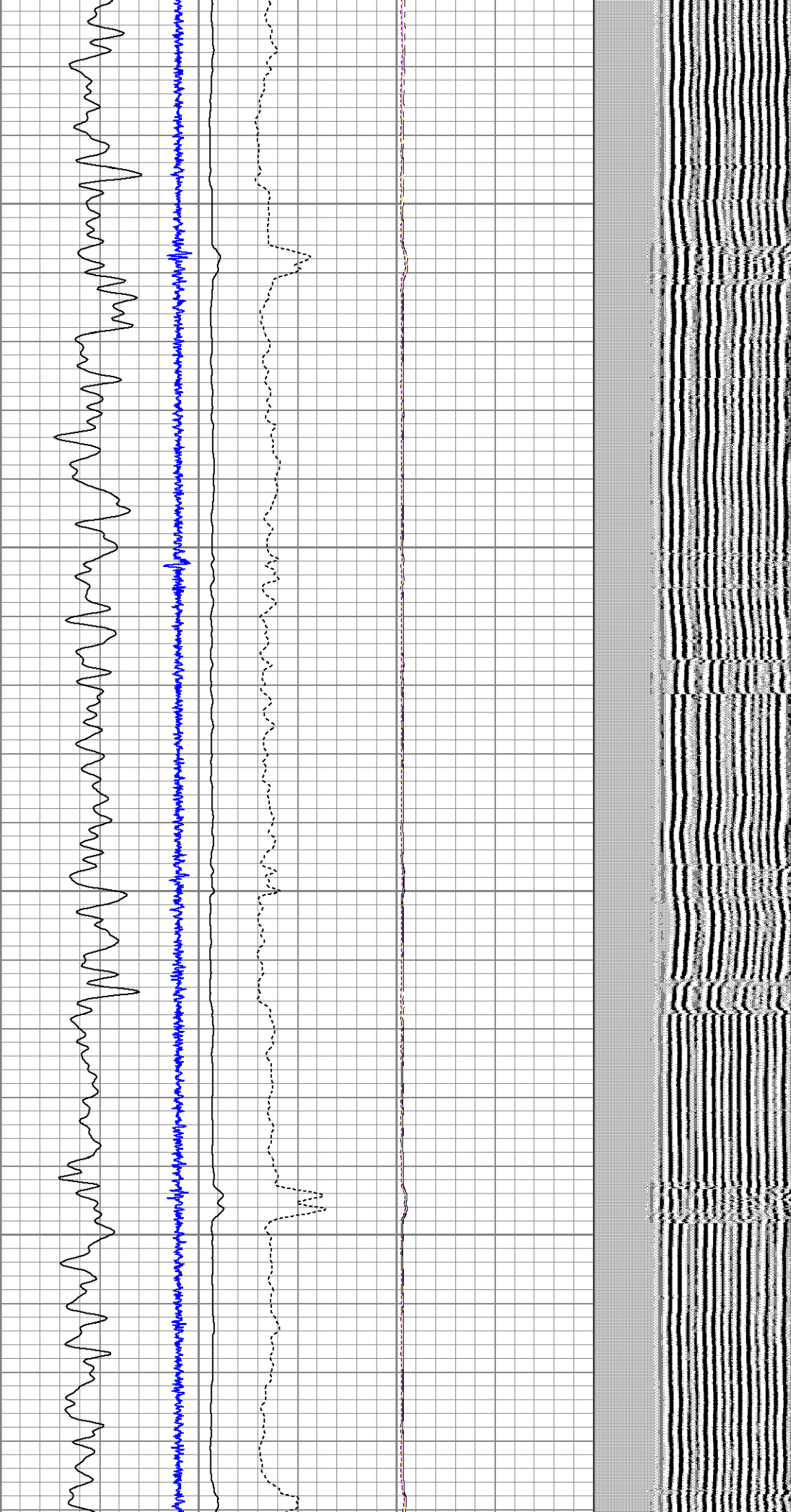
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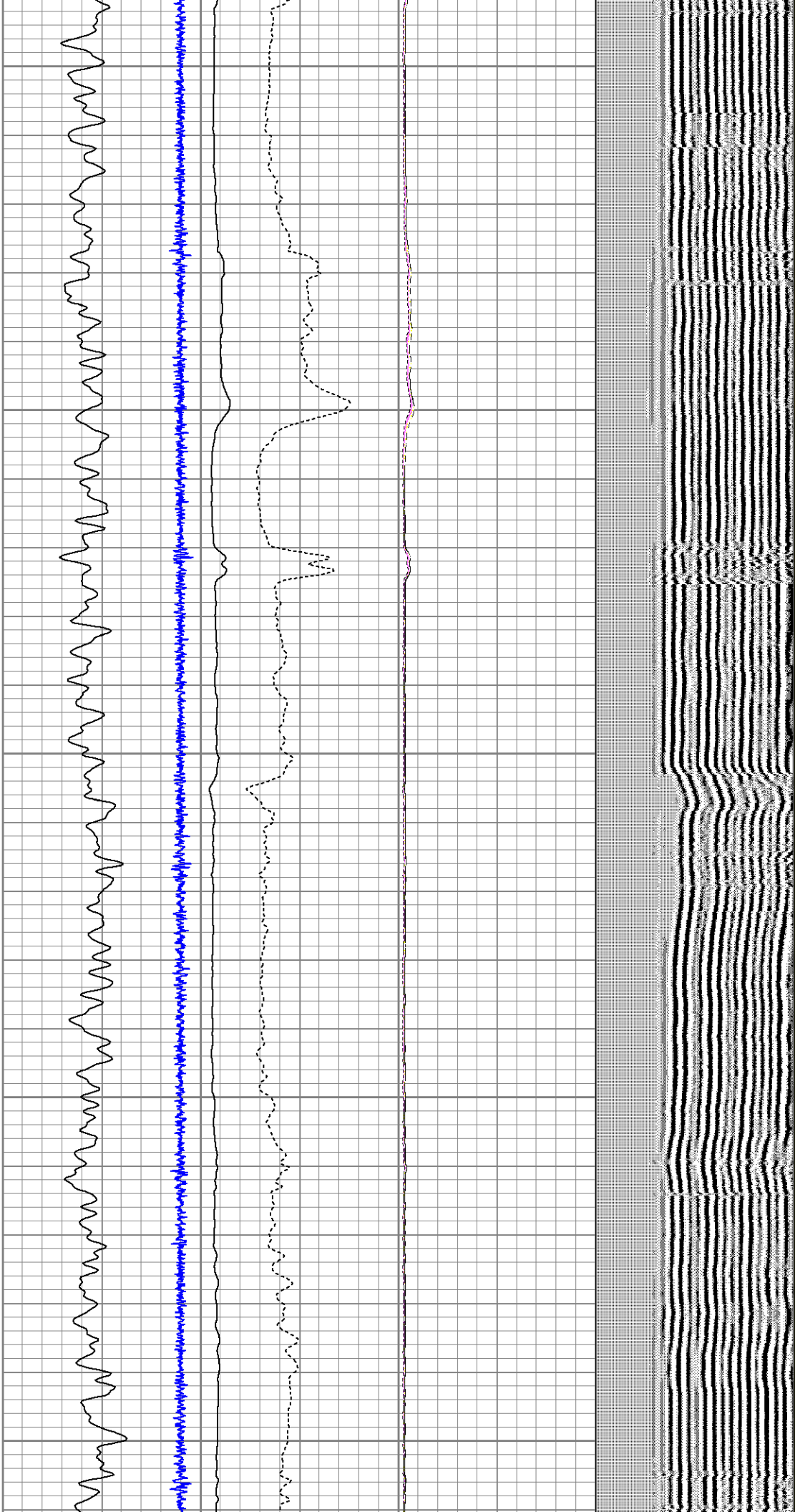
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5200



5300

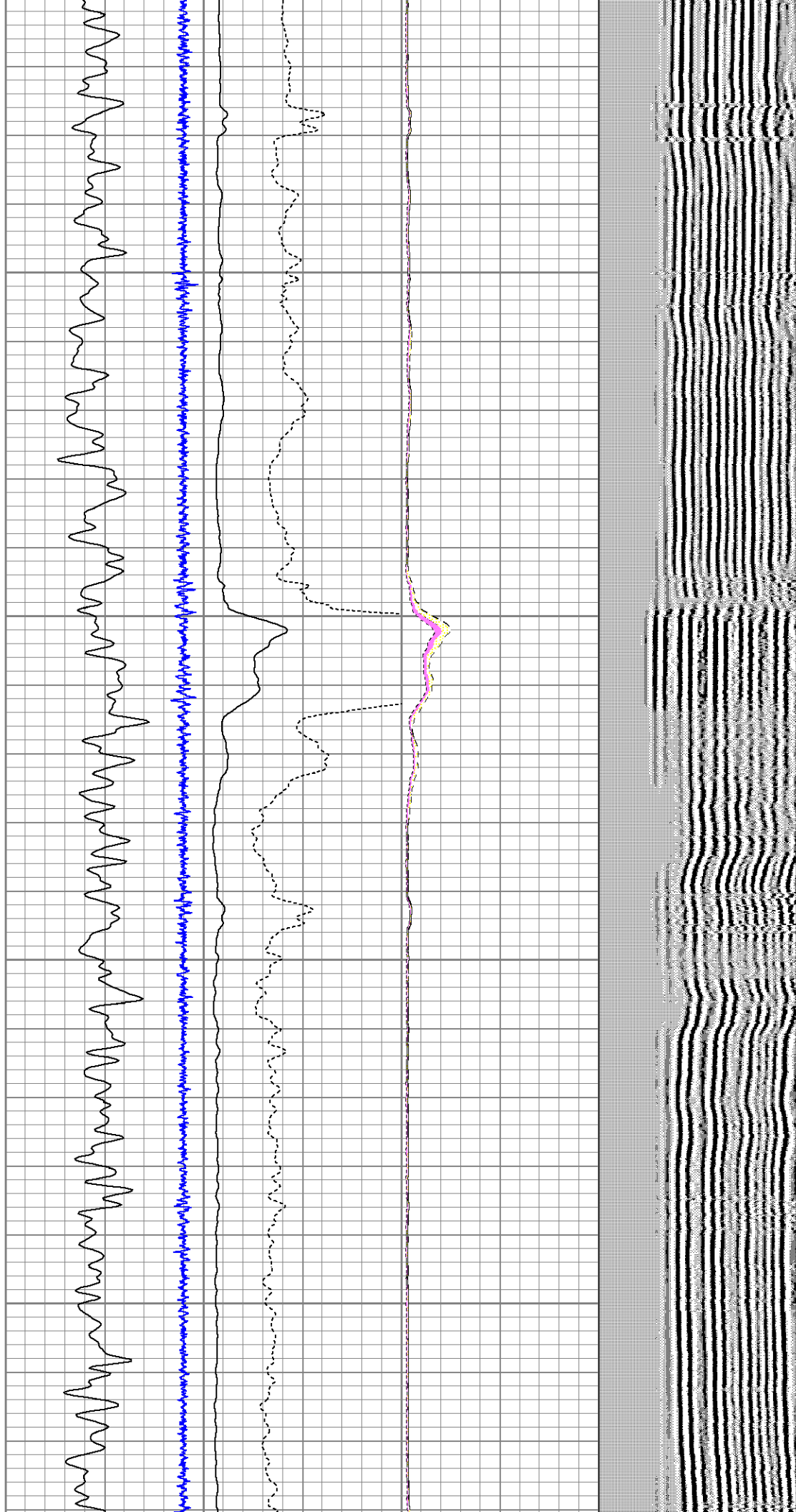
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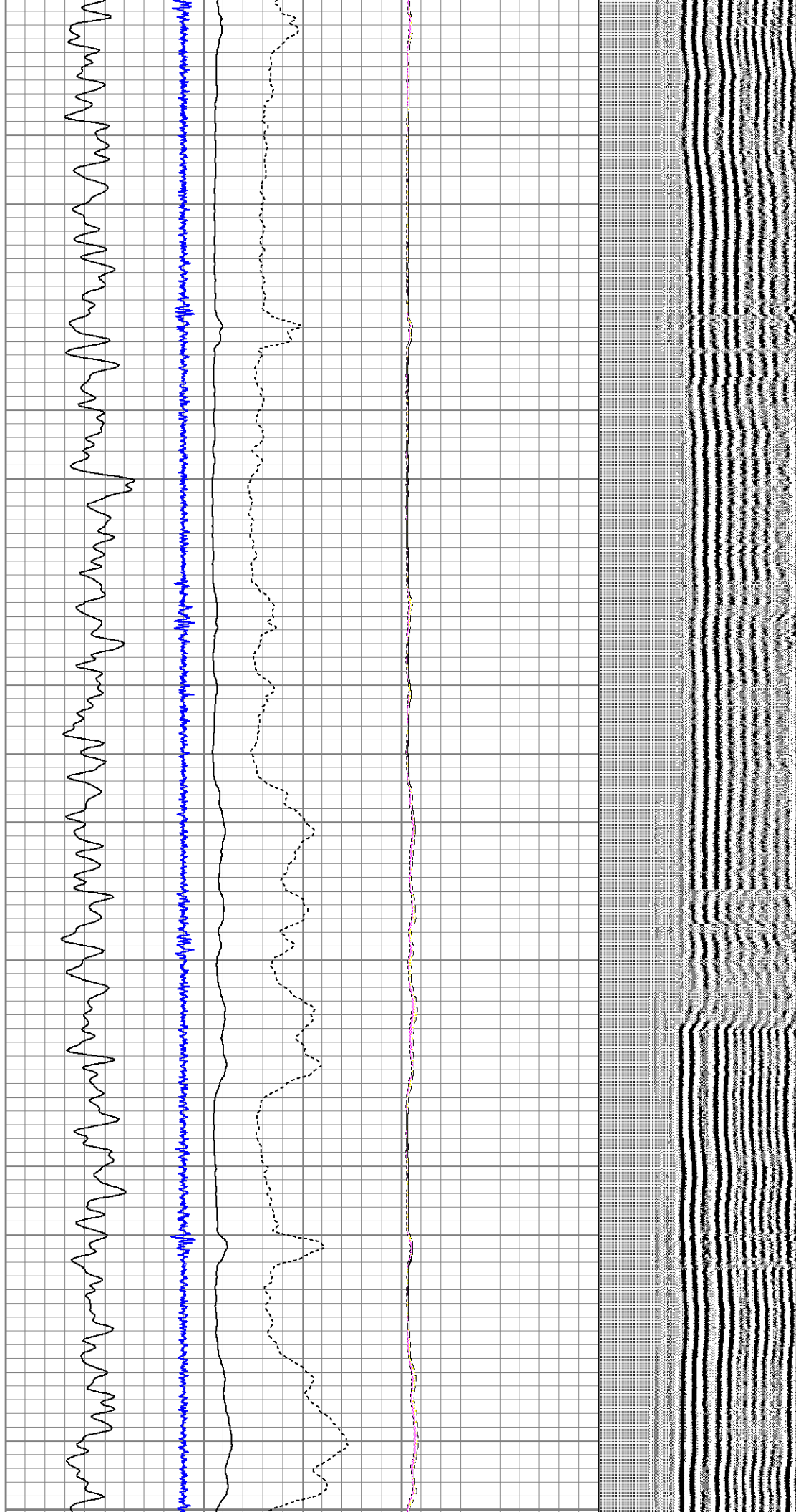
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5700

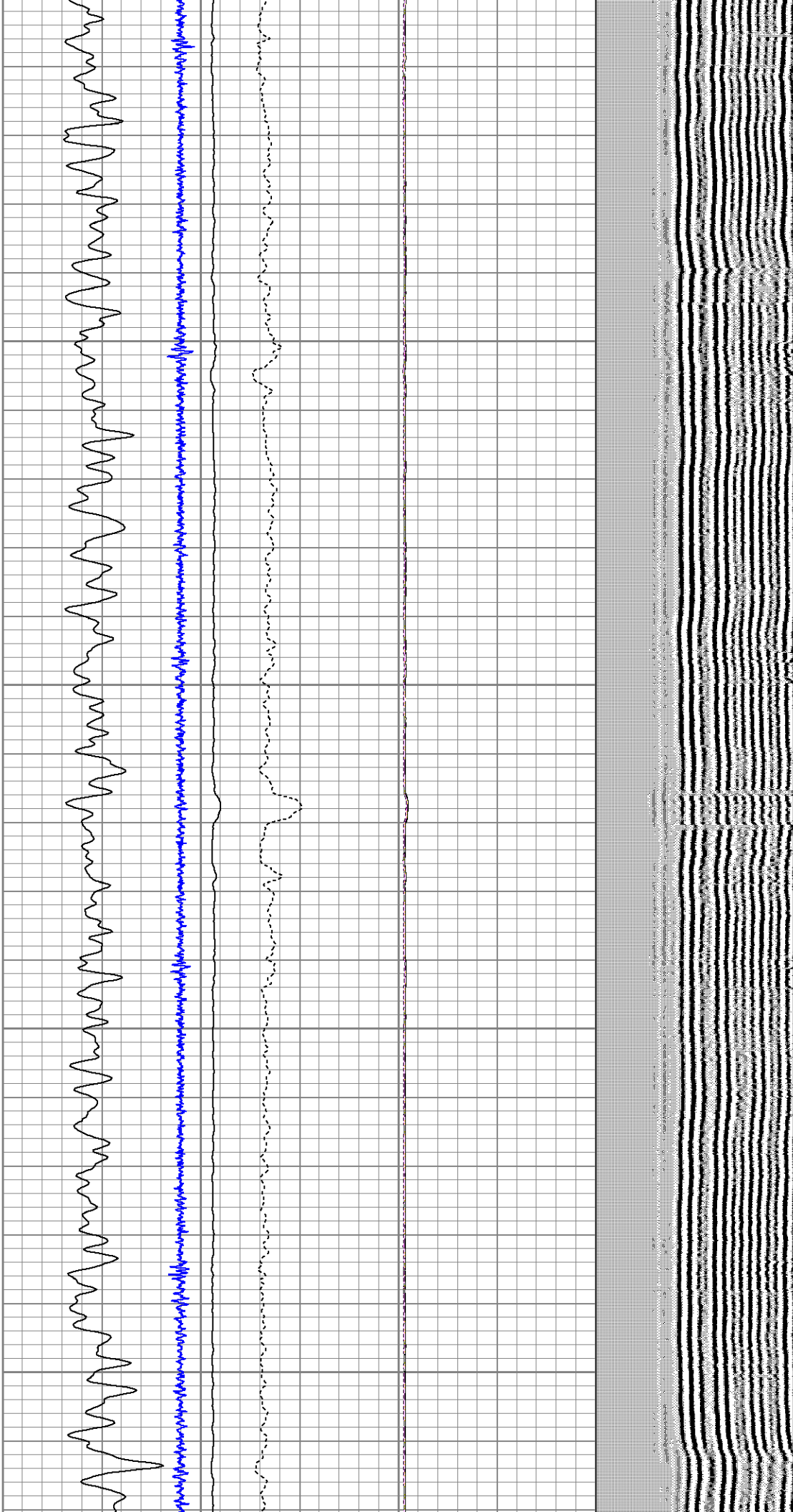
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5900



6000

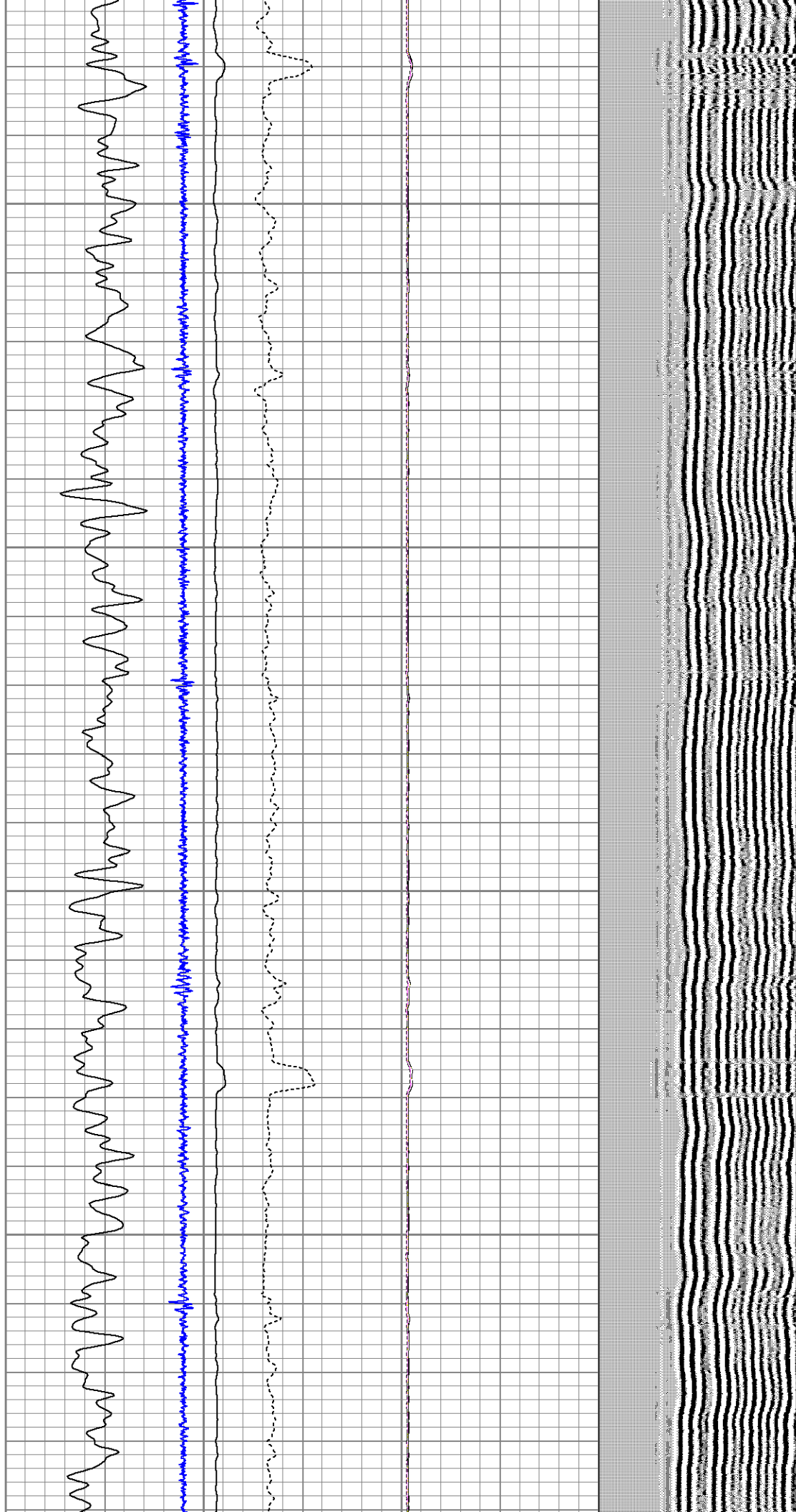
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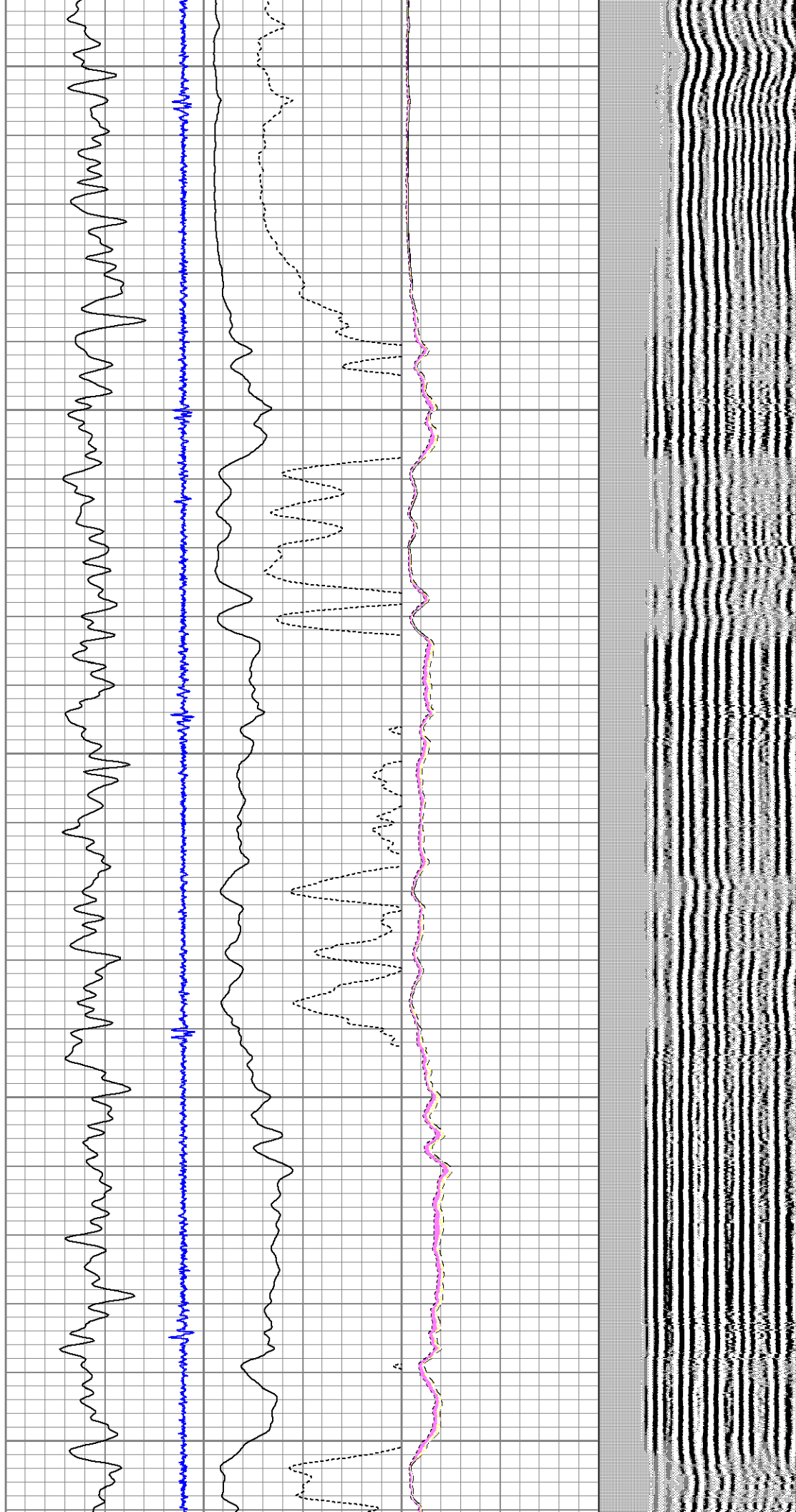
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6300



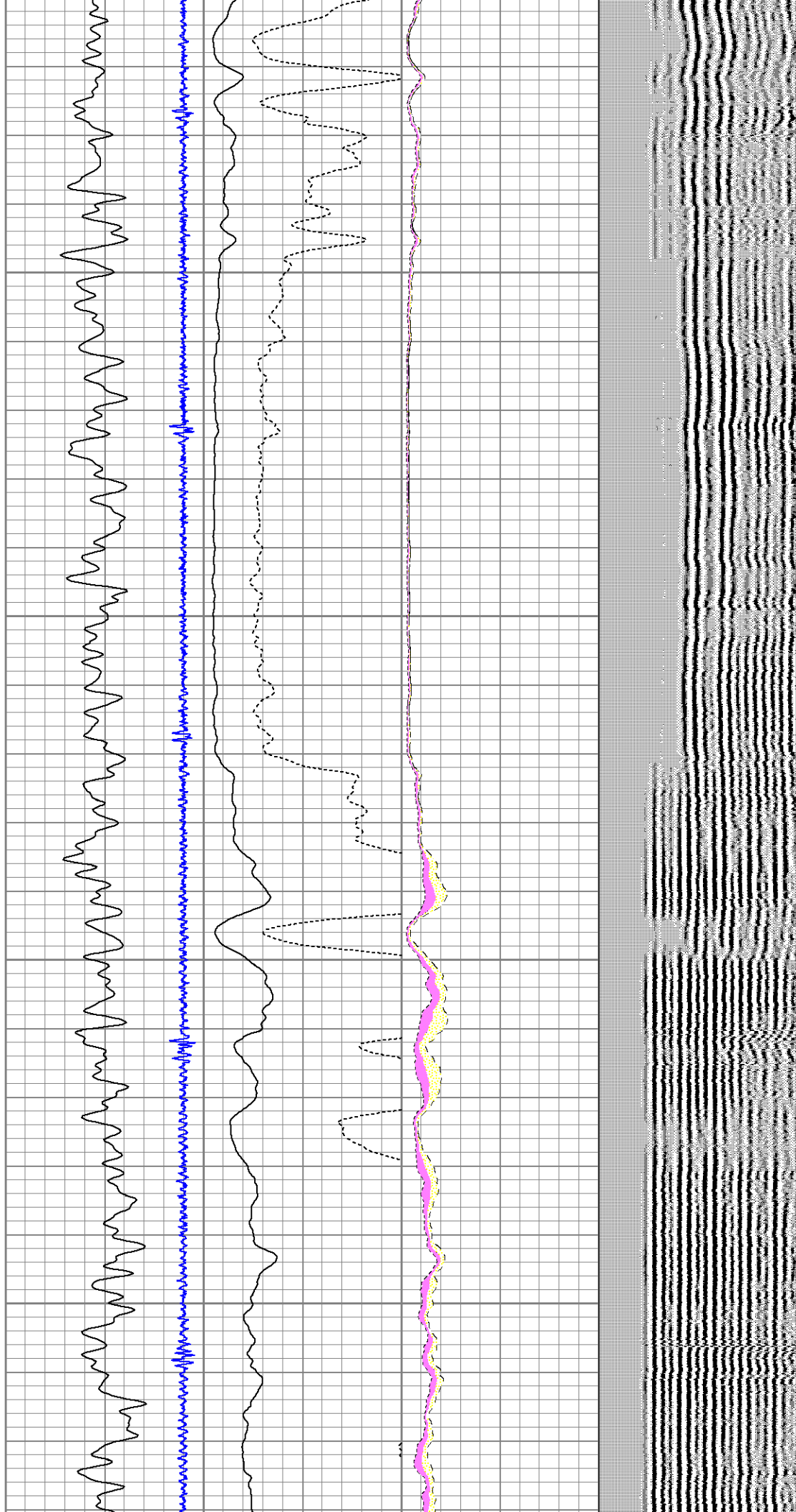
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6500



6600

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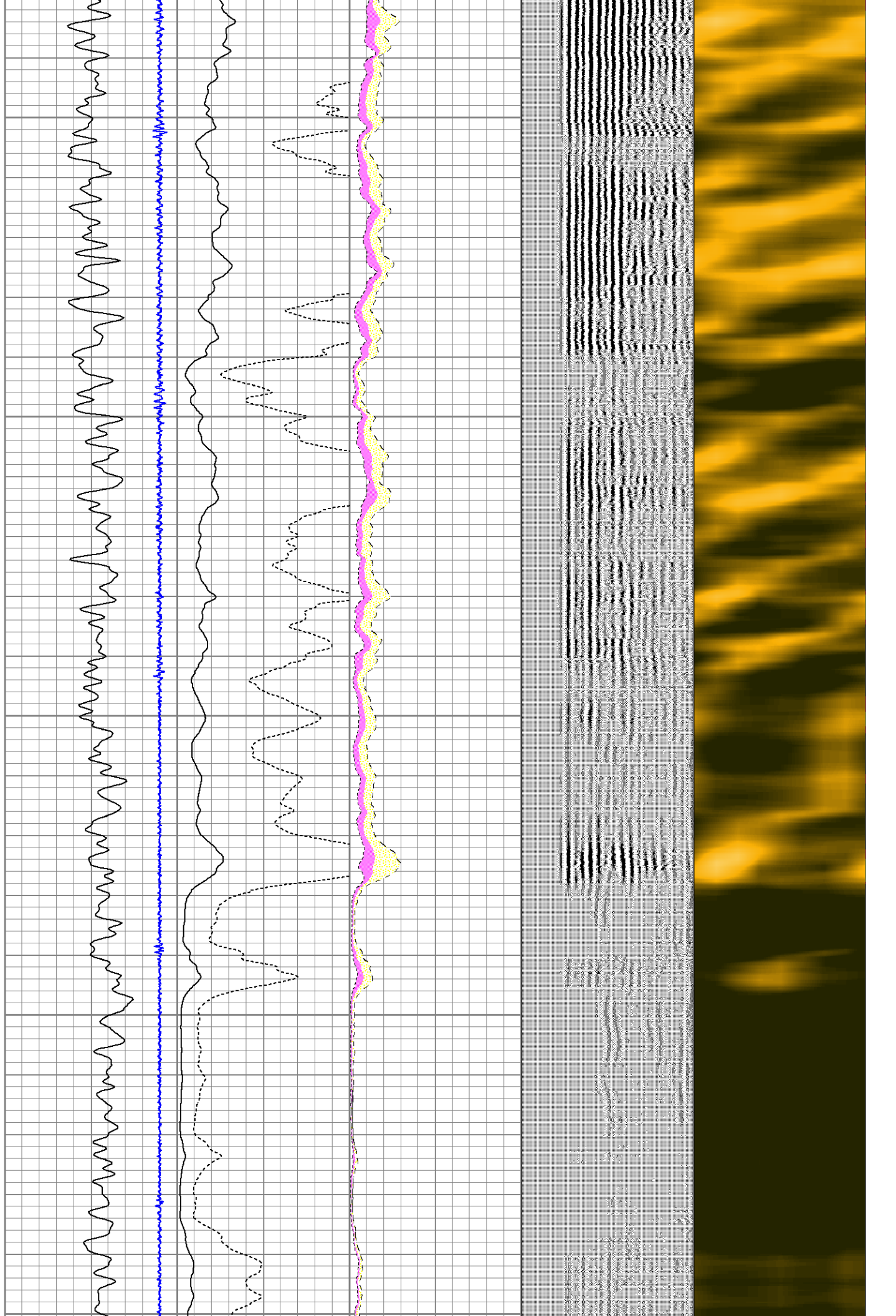




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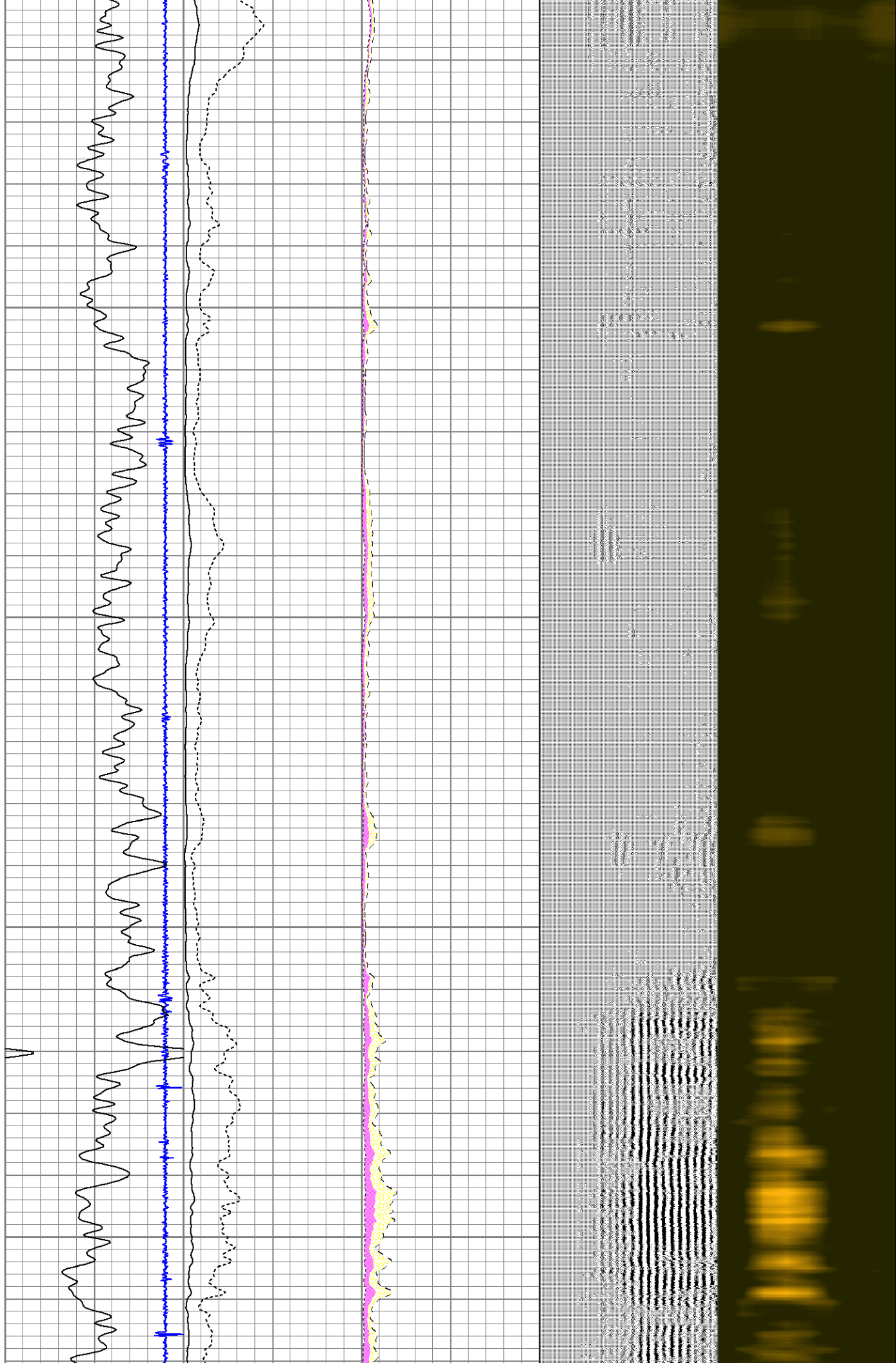
7000



7000

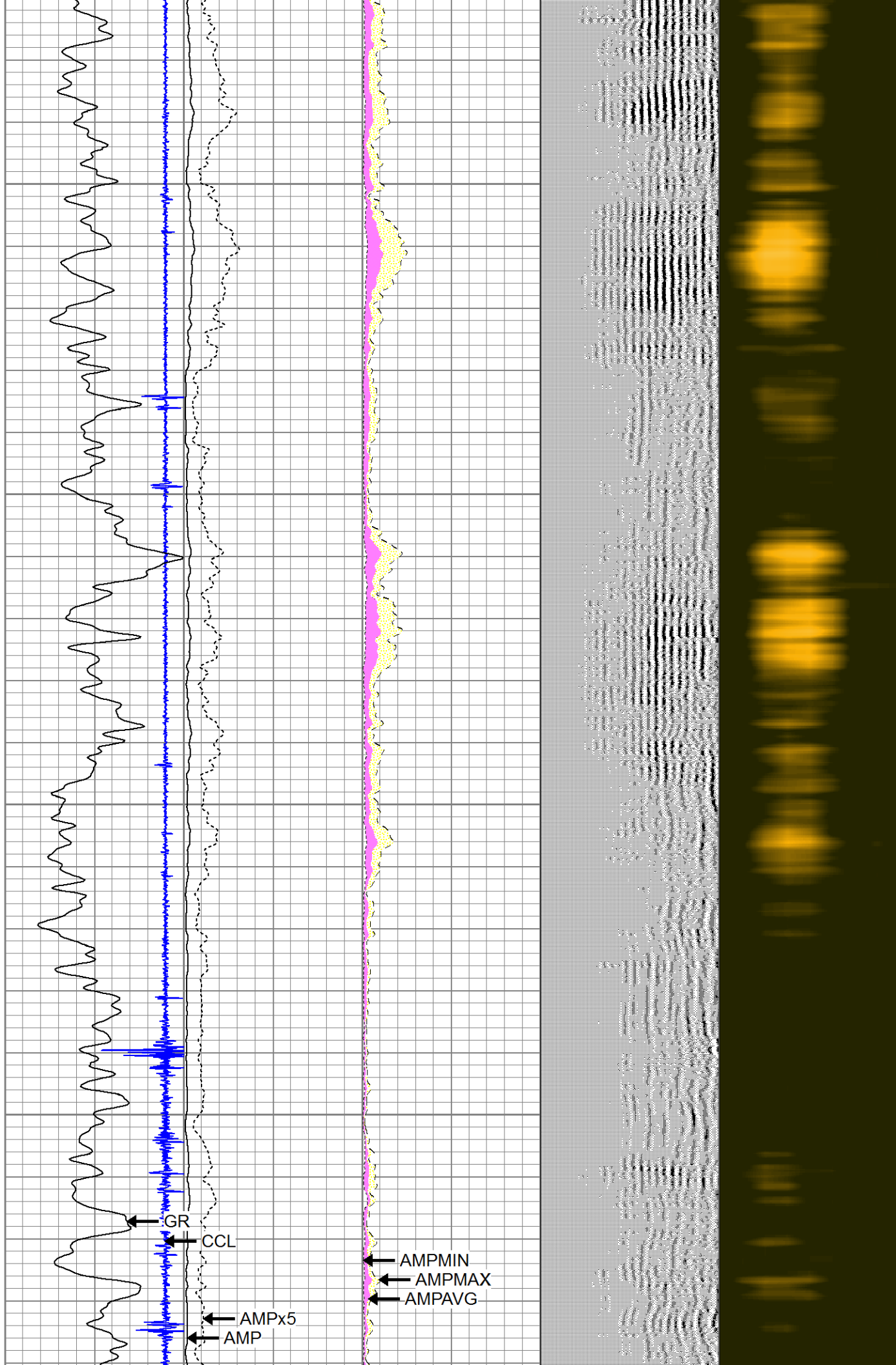
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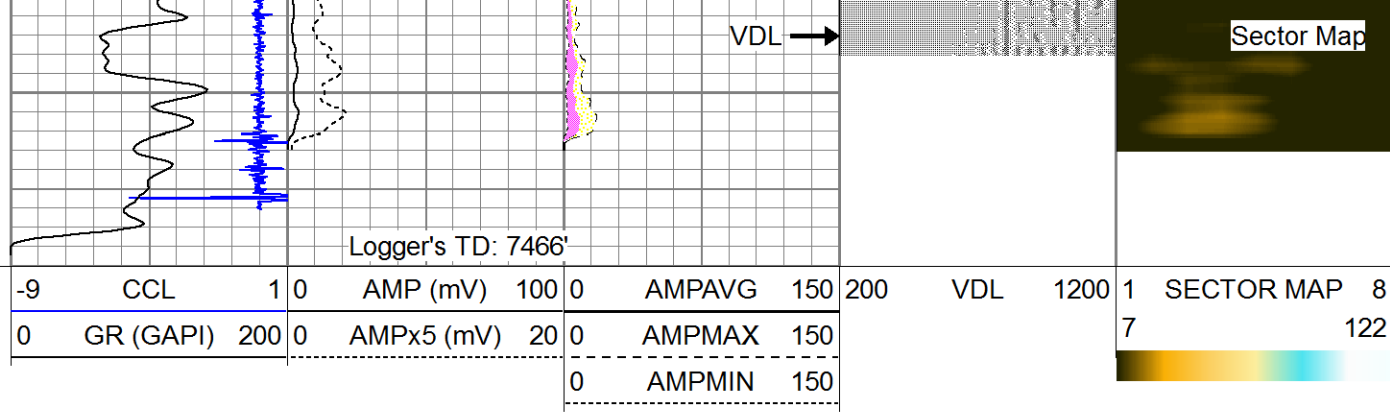


7300

7400







### Calibration Report

Database File: 13494.db  
 Dataset Pathname: rbl/pass6  
 Dataset Creation: Sun Mar 23 12:34:44 2014 by Log 0

### Gamma Ray Calibration Report

Serial Number: 111205  
 Tool Model: probe 2.75  
 Performed: Wed Feb 26 01:14:34 2014

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps  
 Calibrator Reading: 1.0 cps

Sensitivity: 1.1000 GAPI/cps

### Segmented Cement Bond Log Calibration Report

Serial Number: Base  
 Tool Model: Probe

Calibration Casing Diameter: 4.500 in  
 Calibration Depth: 115.403 ft

Master Calibration, performed Sat Mar 01 23:36:50 2014:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.012	0.924	0.000	62.200	24.000	1.200
CAL	0.012	1.008				
5'	0.012	0.970	0.000	62.200	57.979	0.043
SUM						
S1	0.012	1.028	0.000	100.000	84.908	-0.463
S2	0.012	0.941	0.000	100.000	93.201	-0.687
S3	0.012	0.845	0.000	100.000	92.050	-0.375
S4	0.012	0.807	0.000	100.000	85.572	-0.235
S5	0.012	0.822	0.000	100.000	92.745	-0.106
S6	0.012	0.879	0.000	100.000	84.848	0.198
S7	0.012	0.989	0.000	100.000	90.046	-0.219
S8	0.012	1.030	0.000	100.000	91.594	-0.288

Internal Reference Calibration, performed Tue Nov 21 12:42:07 2006:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset

CAL	0.000	0.000	0.000	0.998	1.000	0.000
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Air Zero Calibration, performed Thu Apr 24 09:23:40 2008:

	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	EnCana Oil & Gas (USA) Inc.
Well	Vogl-McCoy 2D-5H-E267
Field	Wattenberg
County	Weld
State	Colorado