

PIONEER

Pioneer Energy Services

RADIAL SECTOR BOND LOG WITH GAMMA RAY

Company		ENCANA	
Well		NEWMAM 2C-32H	
Field		WATTENBERG	
County	WELD	State	CO

Location:	AP1 # : 05123397740000	Other Services
LAT: 40.08898300 LON: -104.58270000		
SEC 32 TWP 2N RGE 64W		
Permanent Datum	GL	Elevation 4965
Log Measured From	KB	
Drilling Measured From	KB	Elevation 4952

Date of Service	11/15/2014	
Run Number	ONE	
Depth Driller or PRTD	11625	
Depth Logger	7215	
Bottom Log Interval	7215	
Top Log Interval	0	
Open Hole Size	6.125	
Type Fluid	H2O	
Fluid Level	N/A	
Fluid Density	N/A	
Max. Recorded Temperature	N/A	
Wellhead Pressure	N/A	
Wellhead Connection	7'	
Estimated Cement Top	874	
Unit Number	75	
Wireline Size	1/4"	
Location	FORT MORGAN	
Recorded By	ERIK HESSLER	
Witnessed By	RICH BORNER	

Size	Wt/Ft	Top	Bottom
Tubing Record			
Surface Casing	7"	26#	7756
Production Casing			
Liner Record			

<<< 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

THANK YOU FOR USING PIONEER Energy SERVICES

<p>Engineer: E. HESSLER</p> <p>Operator: A. SPILLMAN</p> <p>Operator: M. RAMIREZ</p> <p>Operator: D. MARTIN</p>	<p>Tool Data - Services</p> <p>Serial Number</p>
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Component	Offset (ft)	Orientation	Description	Layer (ft)	QD (in)	VA (lb)
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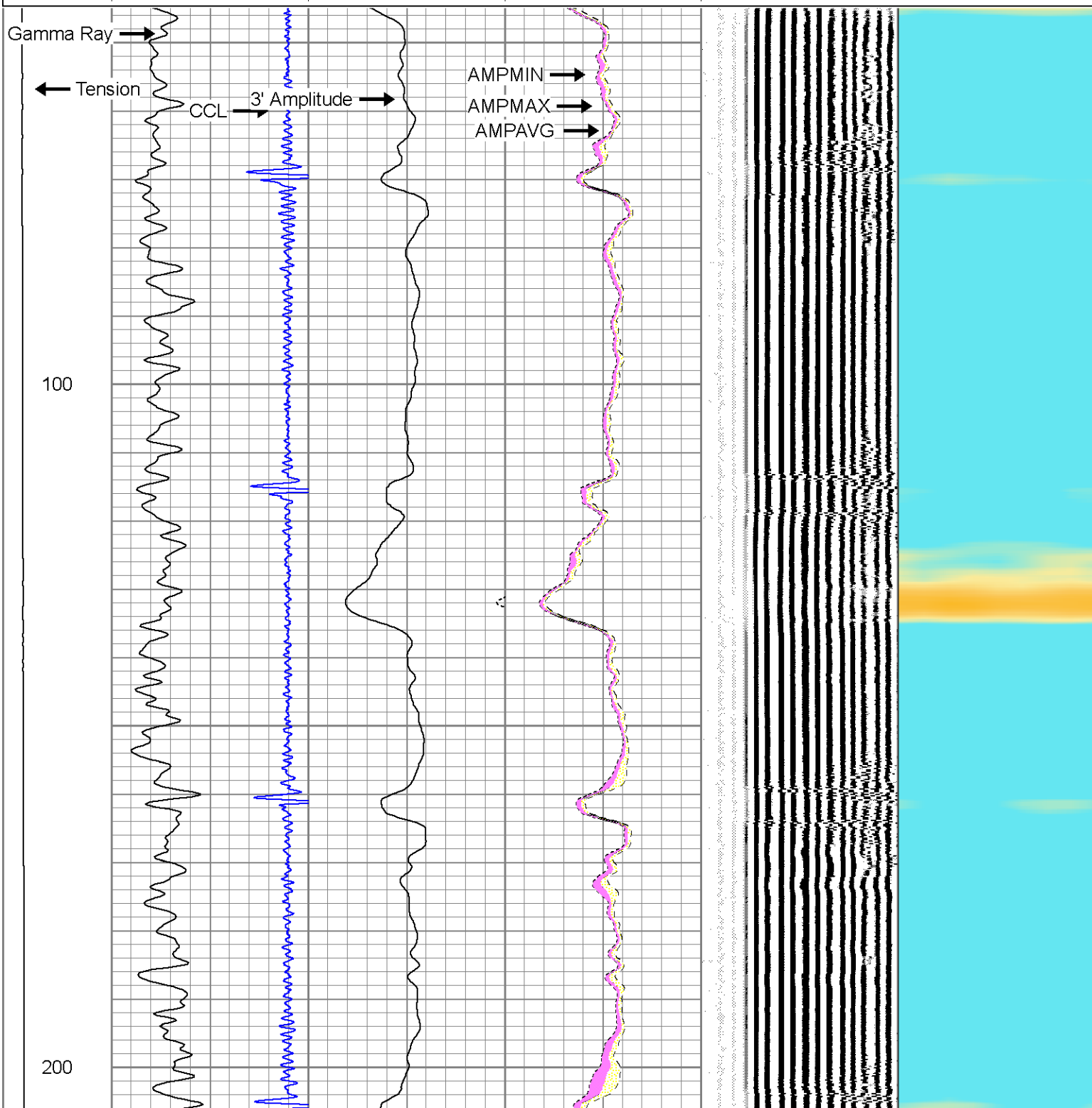
Pioneer Energy Services

MAIN LOG

ZERO PSI APPLIED AT SURFACE

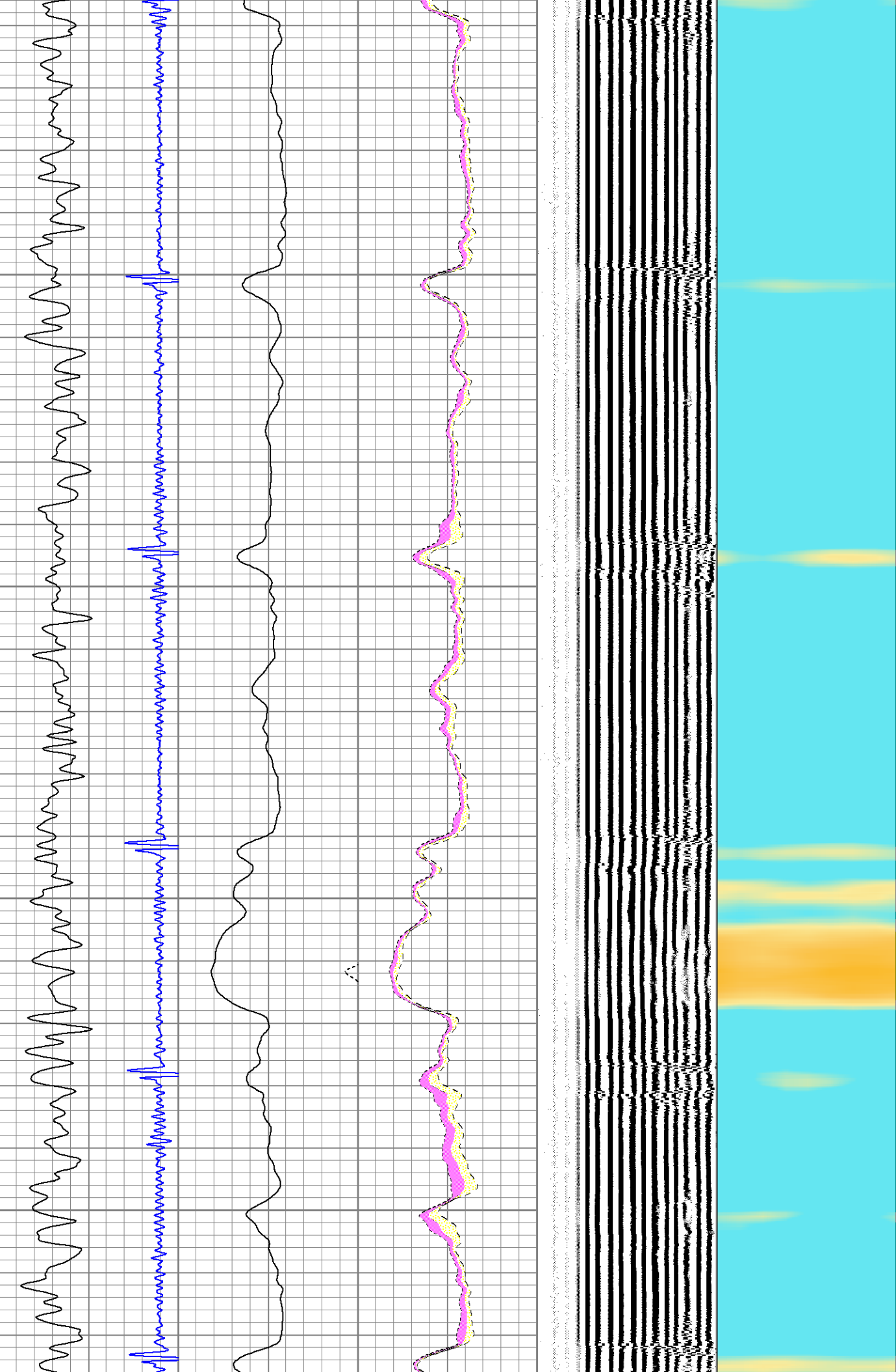
Database File: encana.db
Dataset Pathname: pass6.2
Presentation Format: scbl02
Dataset Creation: Sat Nov 15 17:39:03 2014 by Calc 7.0 B1
Charted by: Depth in Feet scaled 1:240

Tension	-9	CCL	1	3' Amplitude	0	AMPAVG	150	200	VDL	1200	1	SECTOR MAP	8
0 (lb/1600)		Gamma Ray		0 (mV)	100	0	AMPMAX	150			10		60
	0	(GAPI)	200	0 AMPx5 (mV)	20	0	AMPMIN	150					



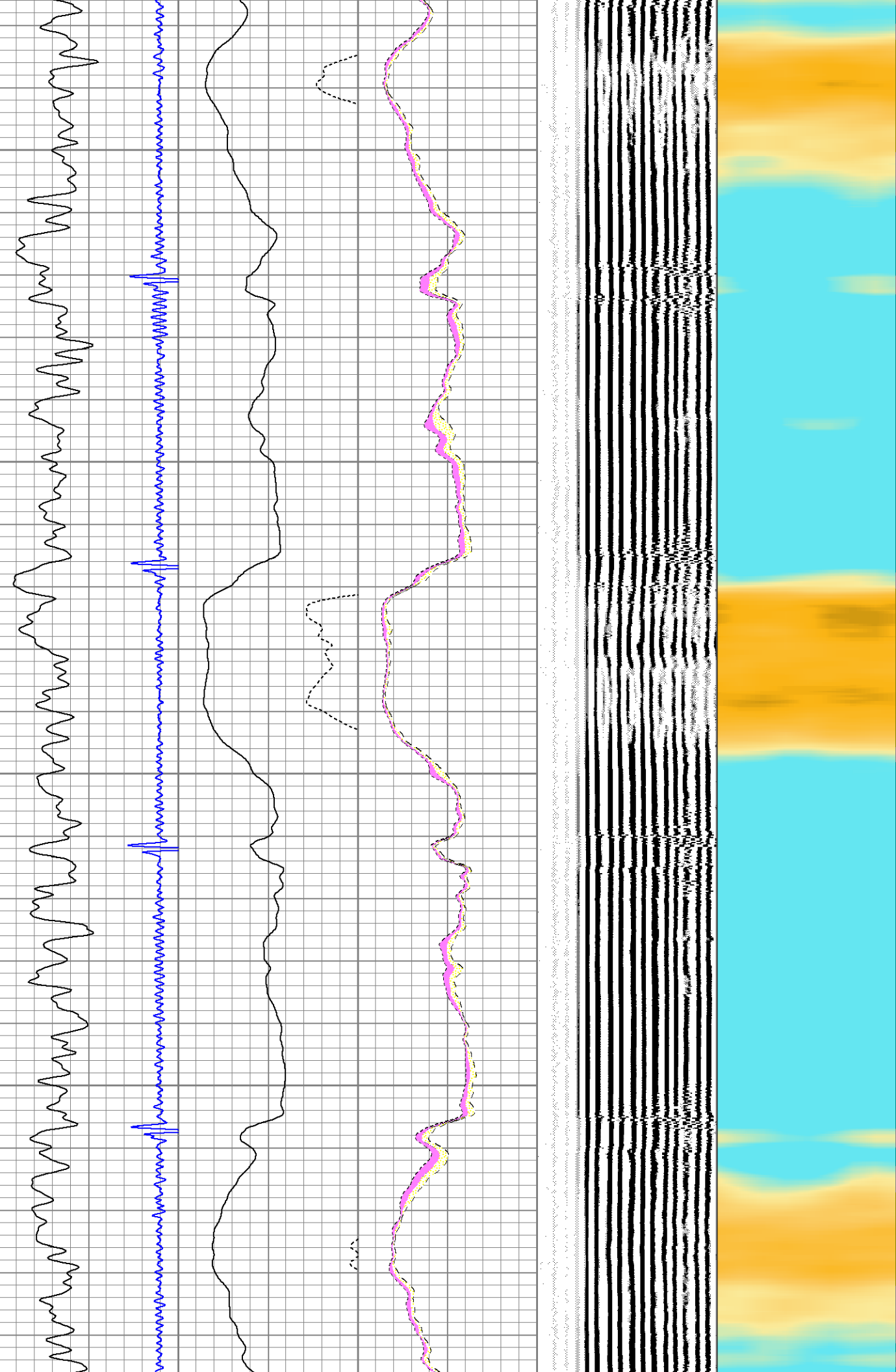
400

300



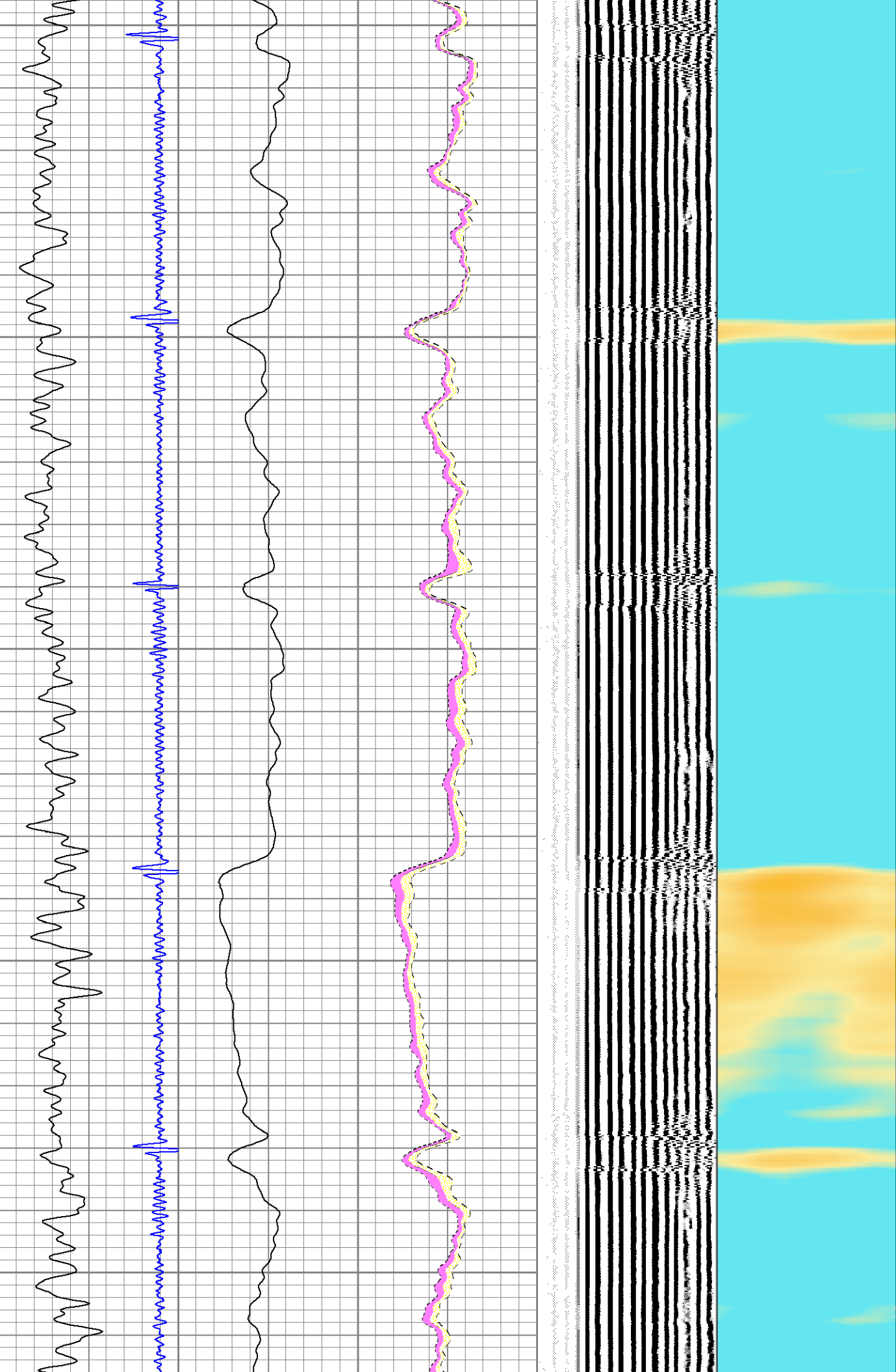
500

600



700

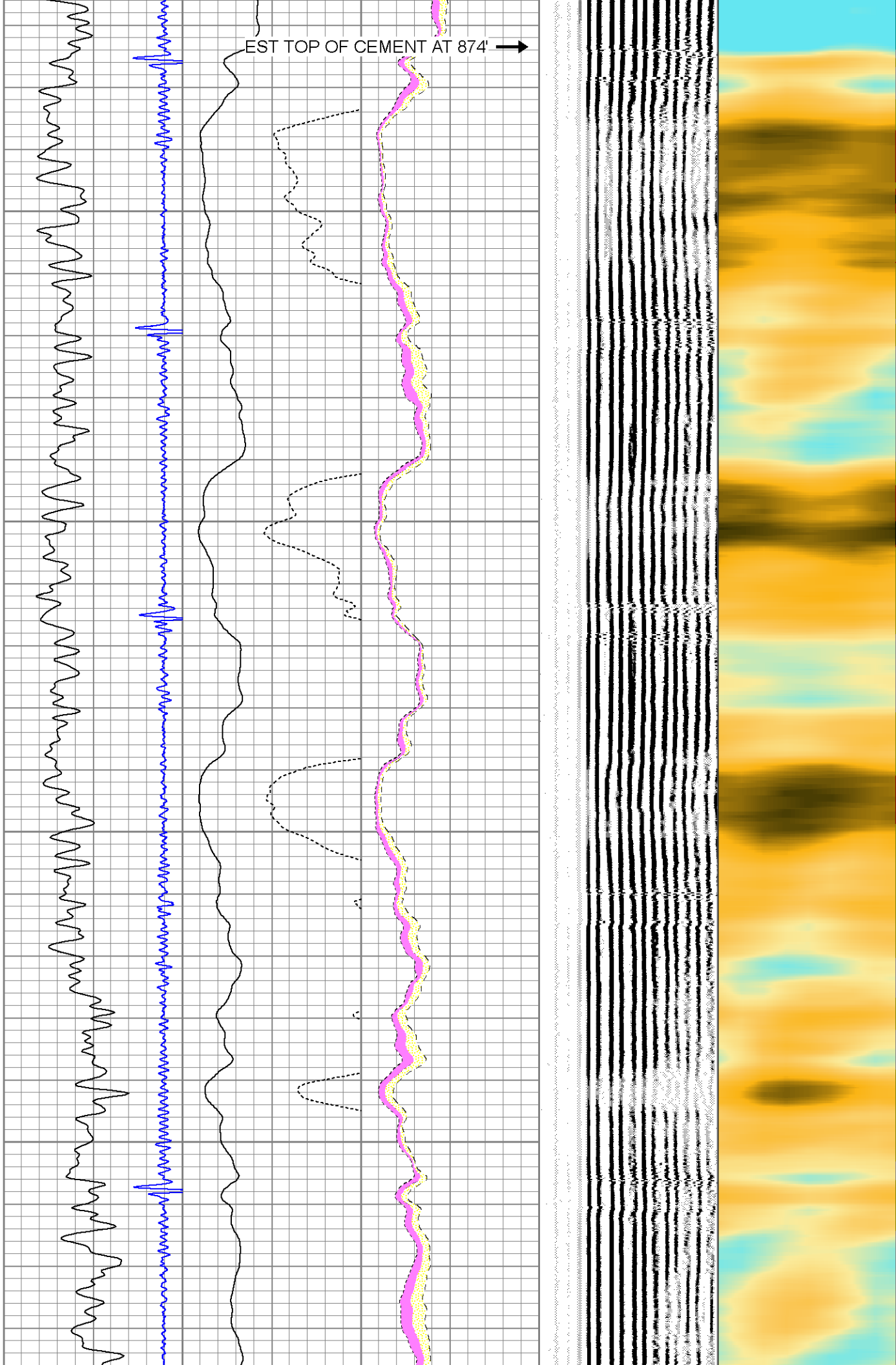
800



900

1000

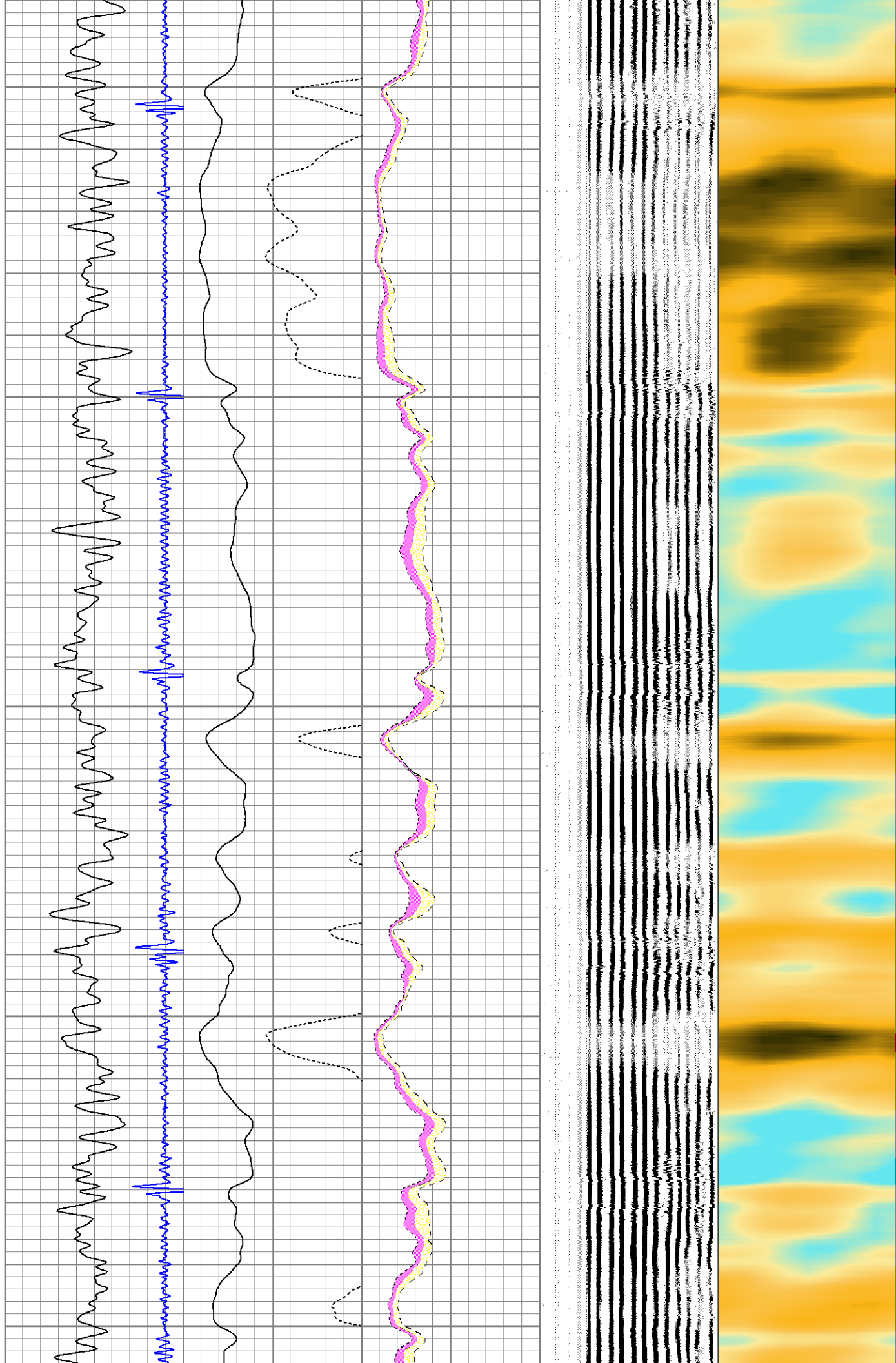
EST TOP OF CEMENT AT 874' →



1100

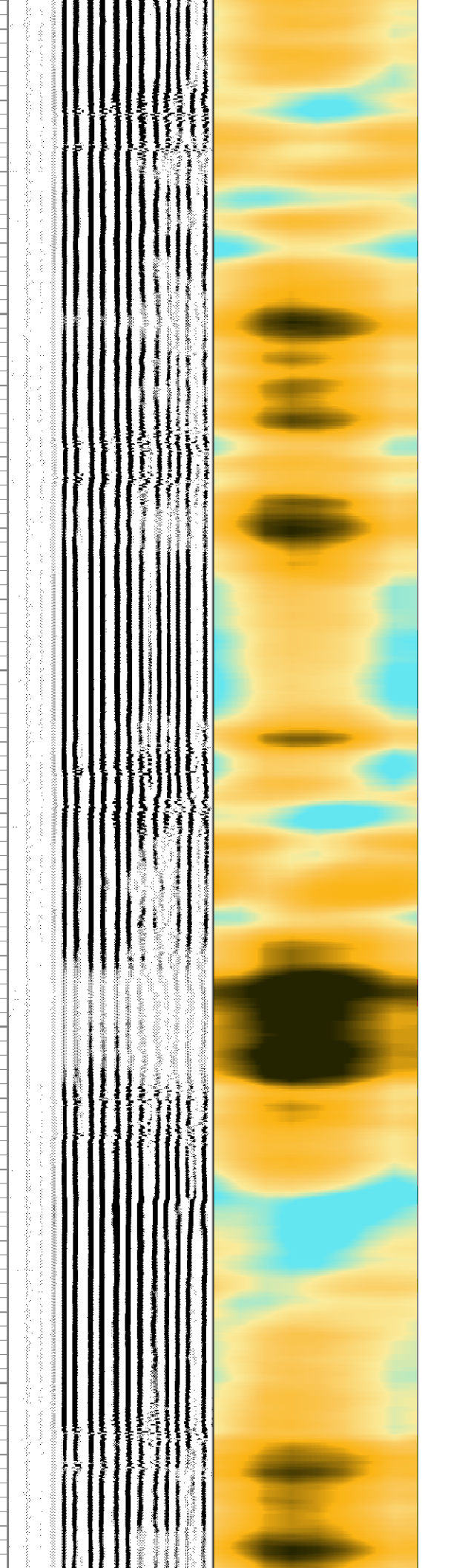
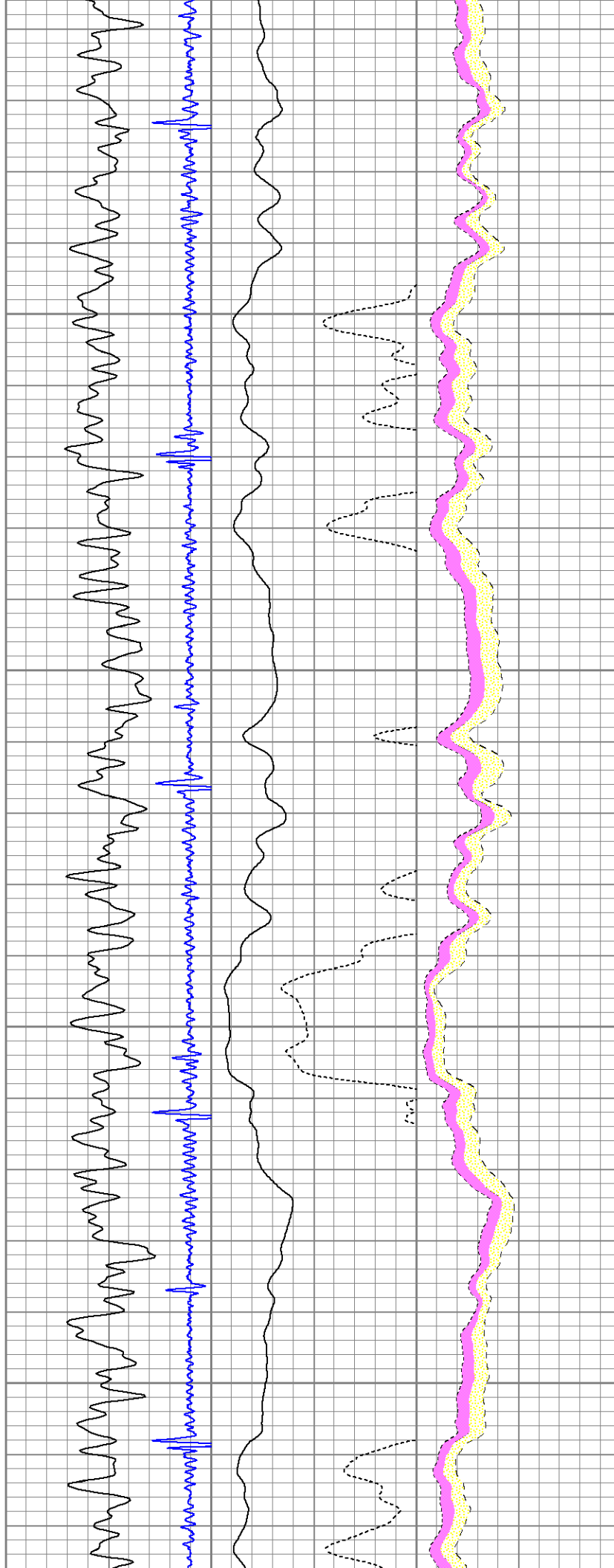
1200

1300



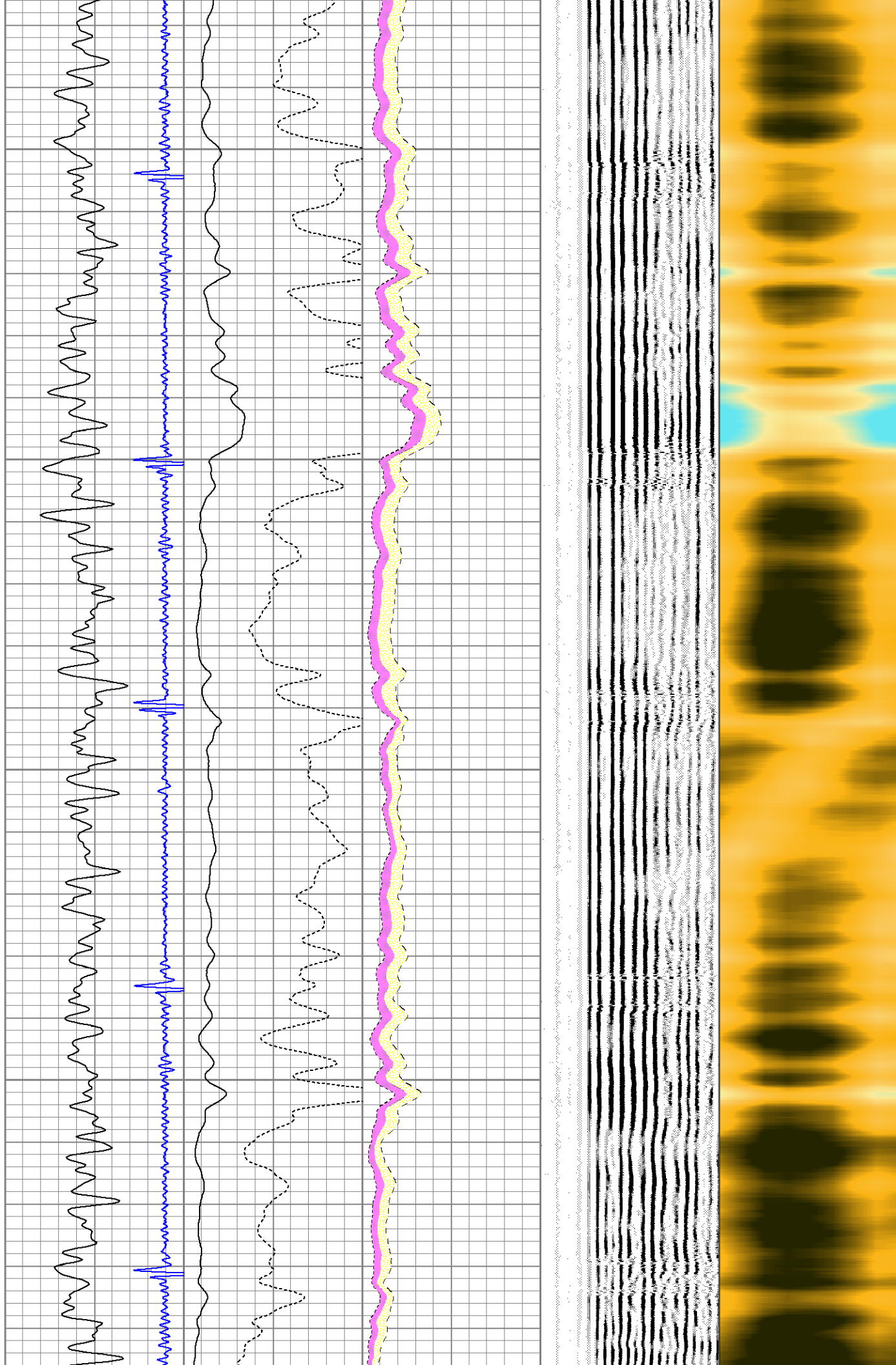
1400

1500



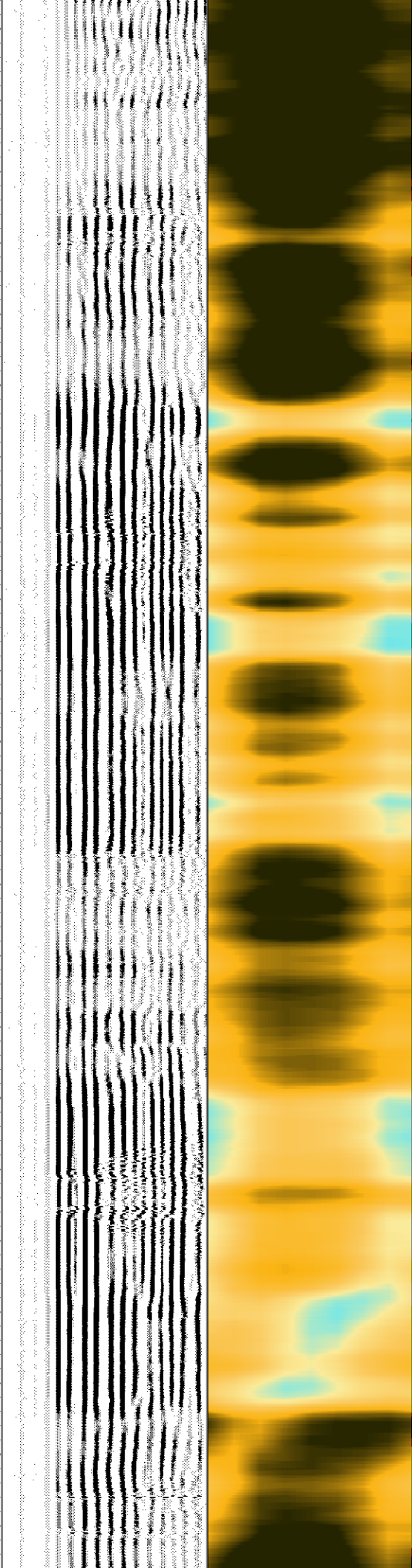
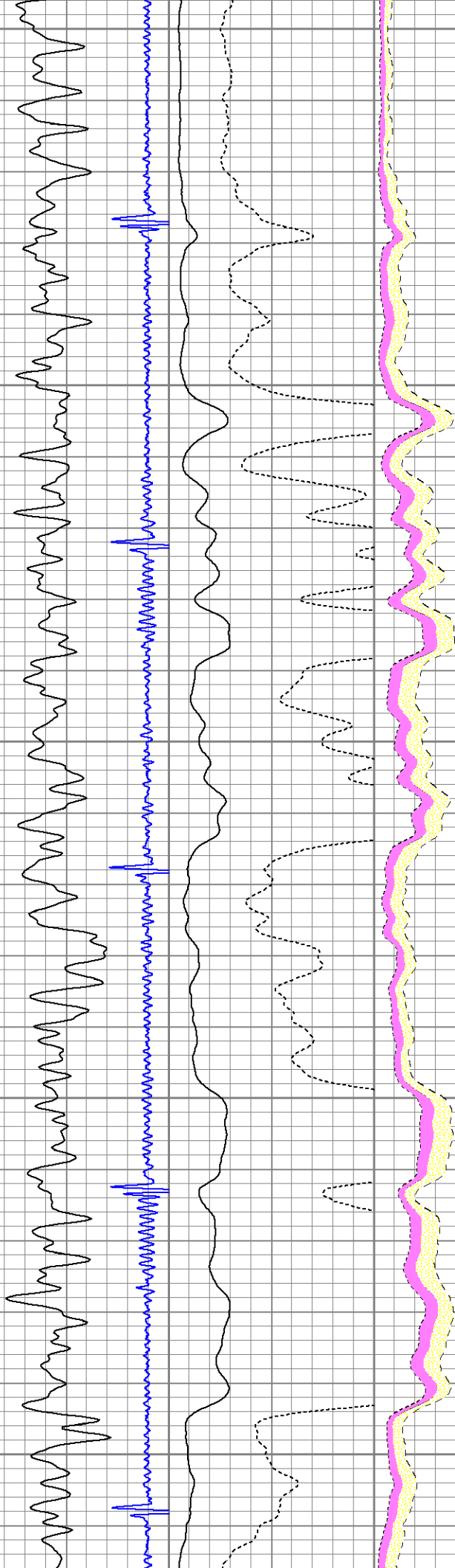
1600

1700



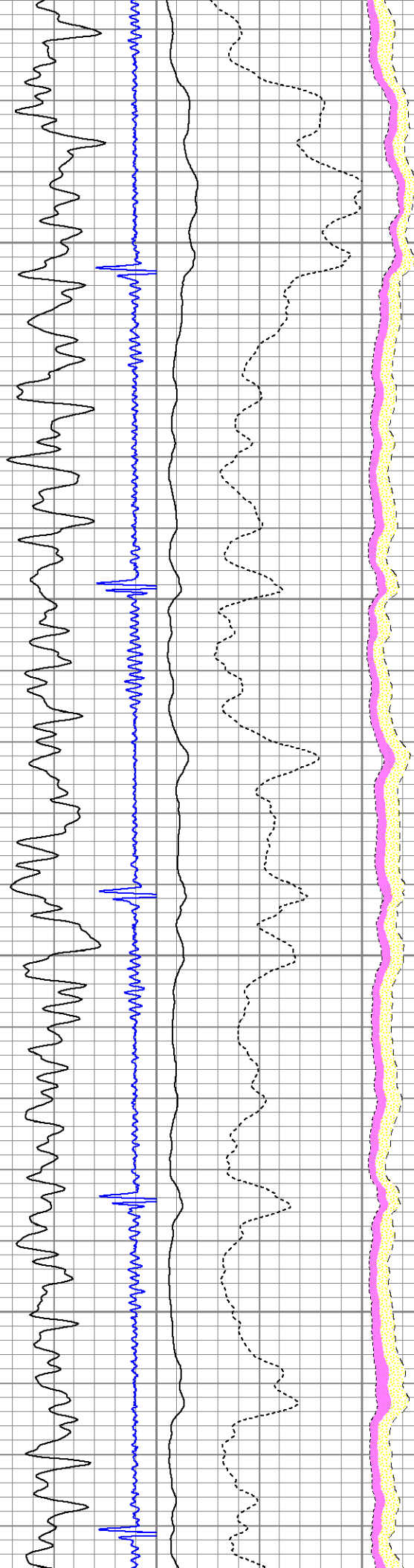
1900

1800



2000

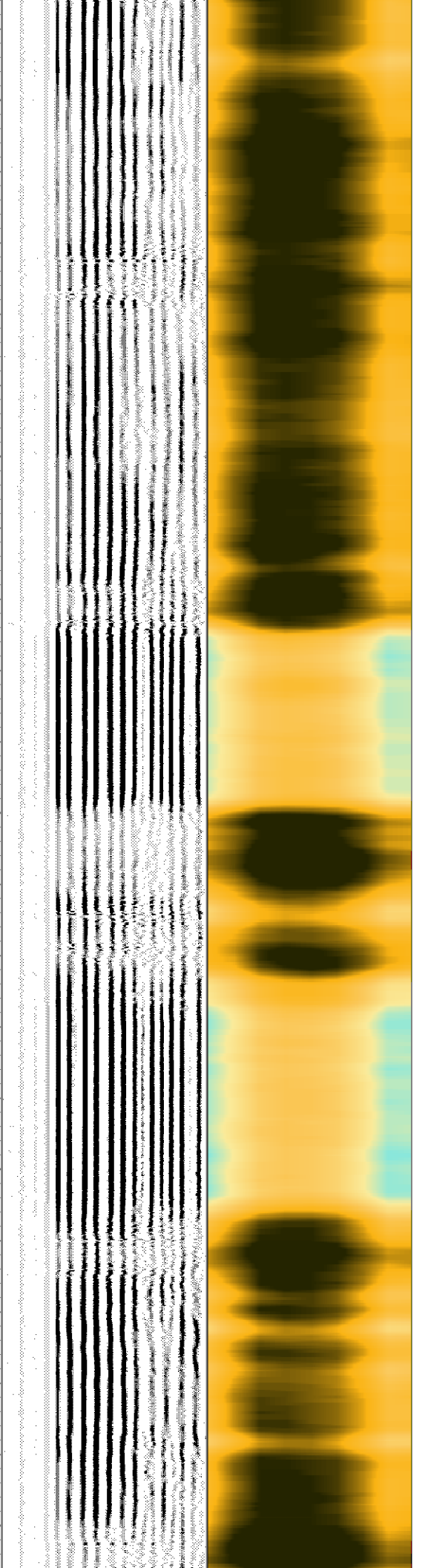
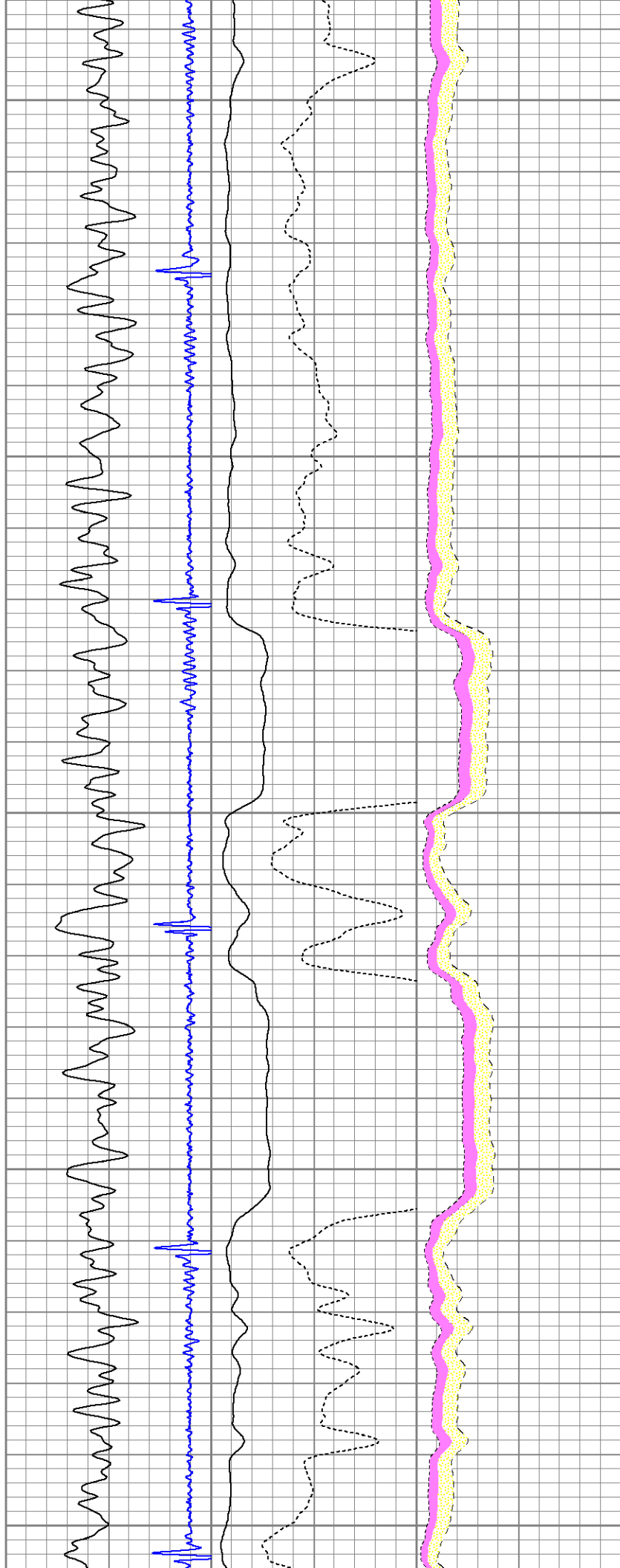
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2200

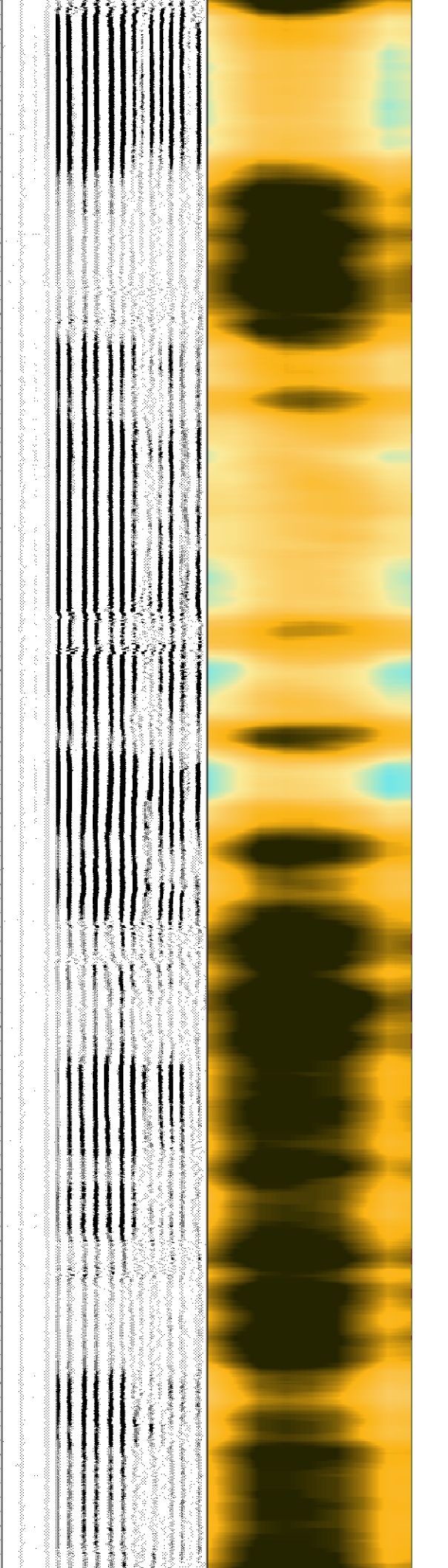
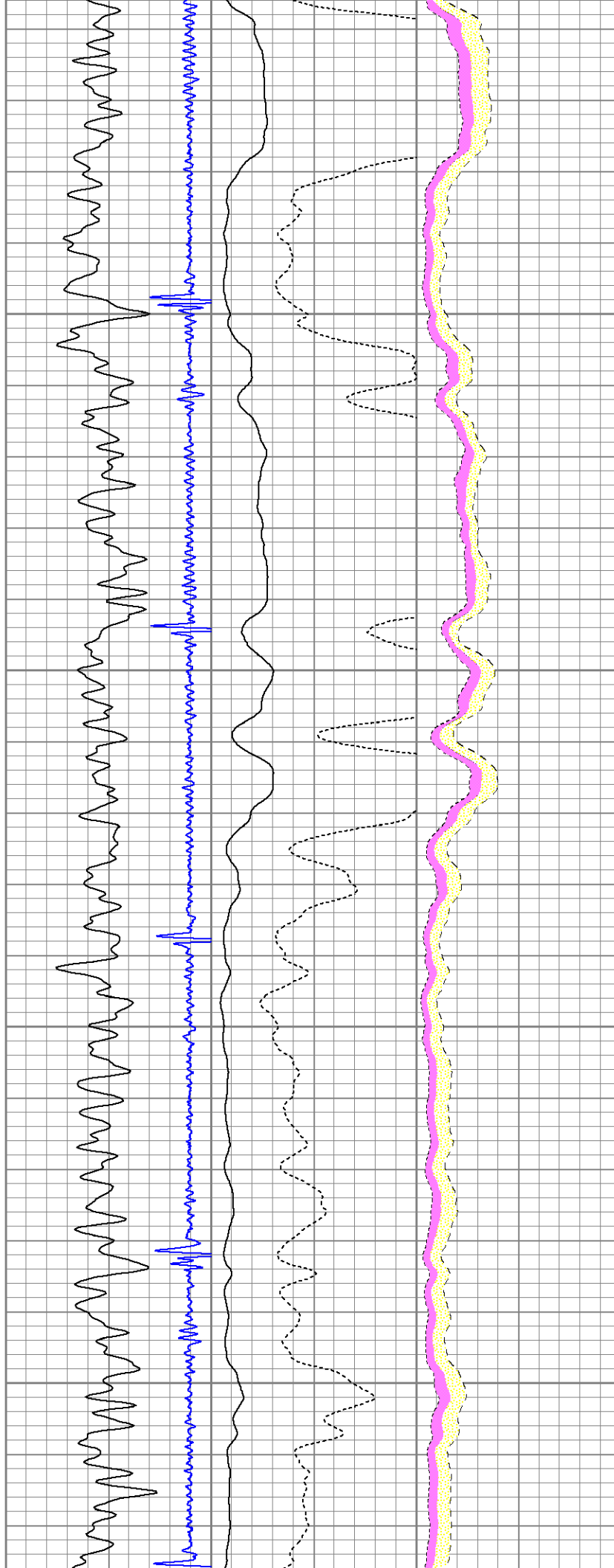
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2400



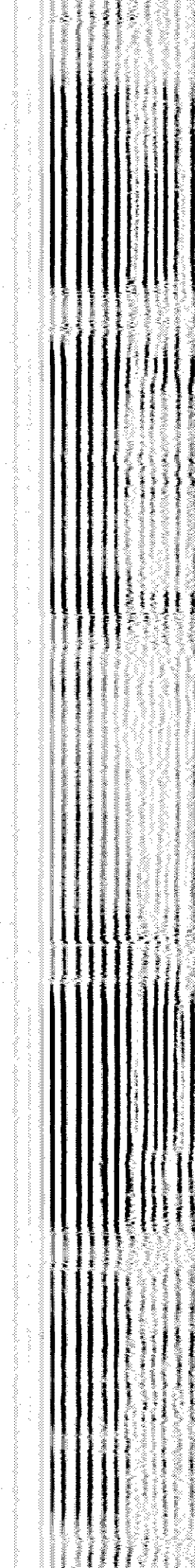
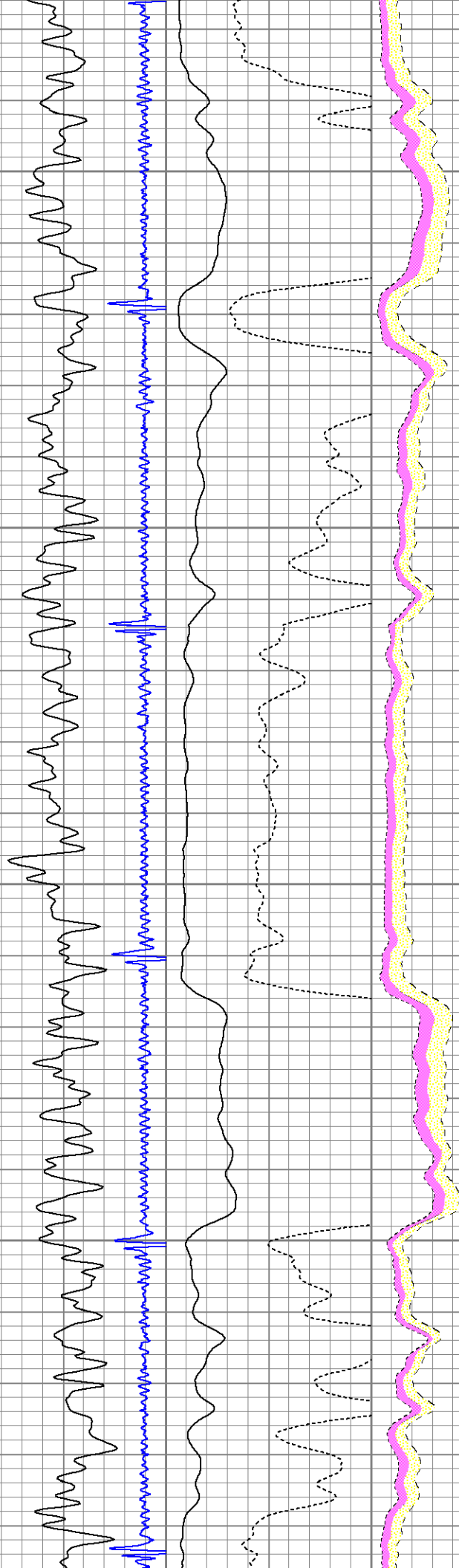
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2600



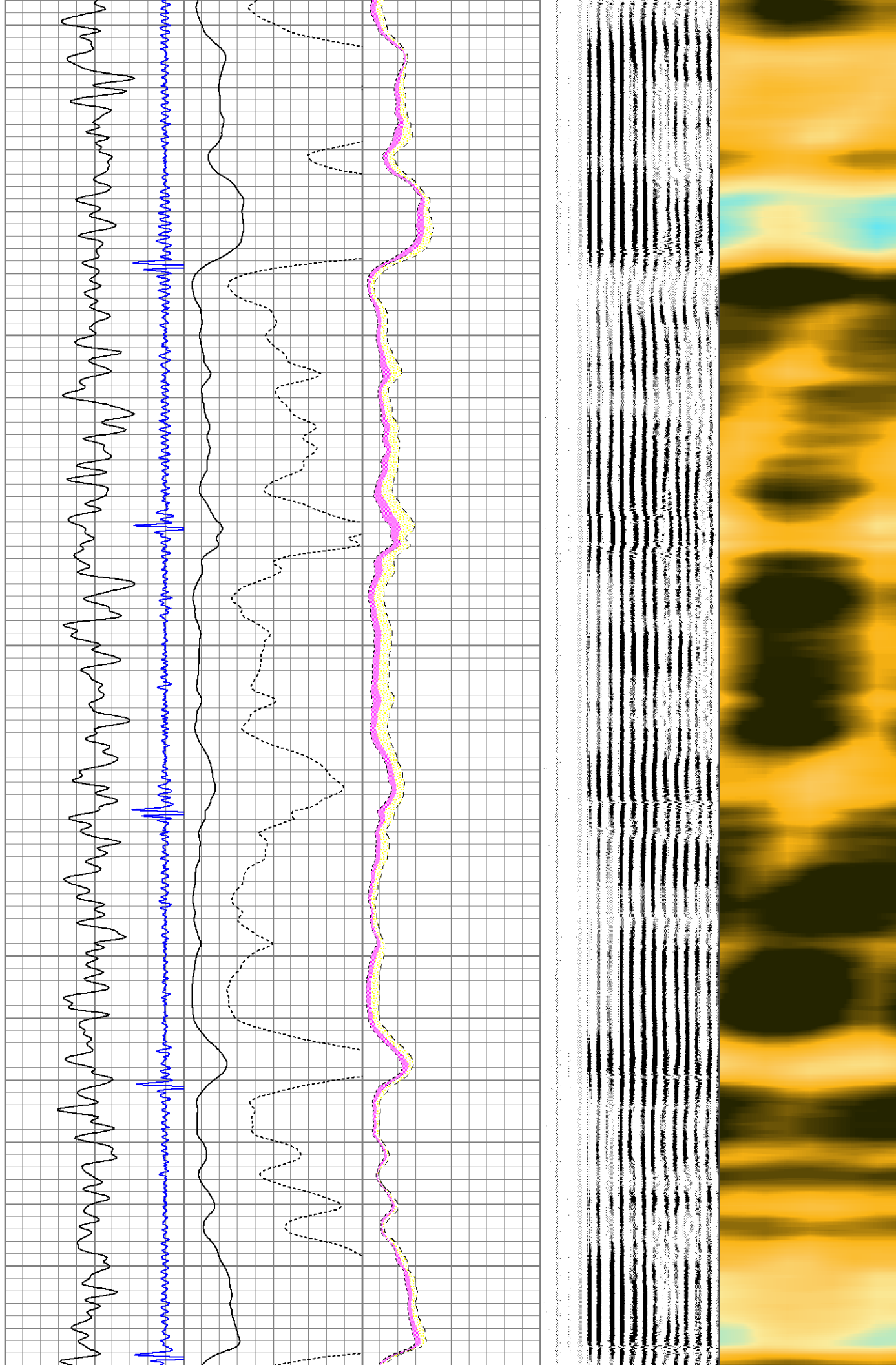
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2800



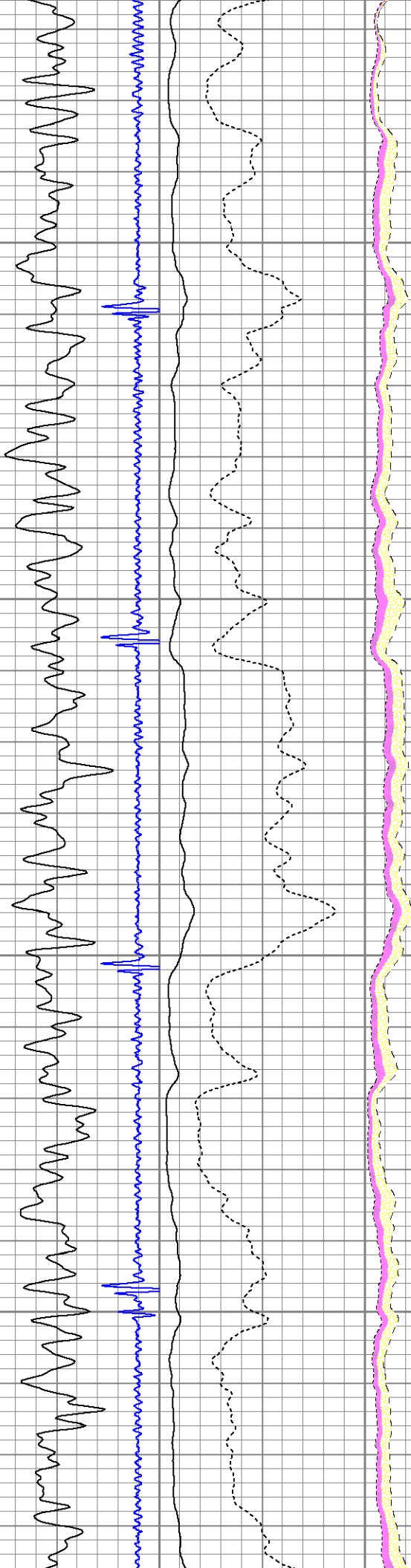
2900

3000



3100

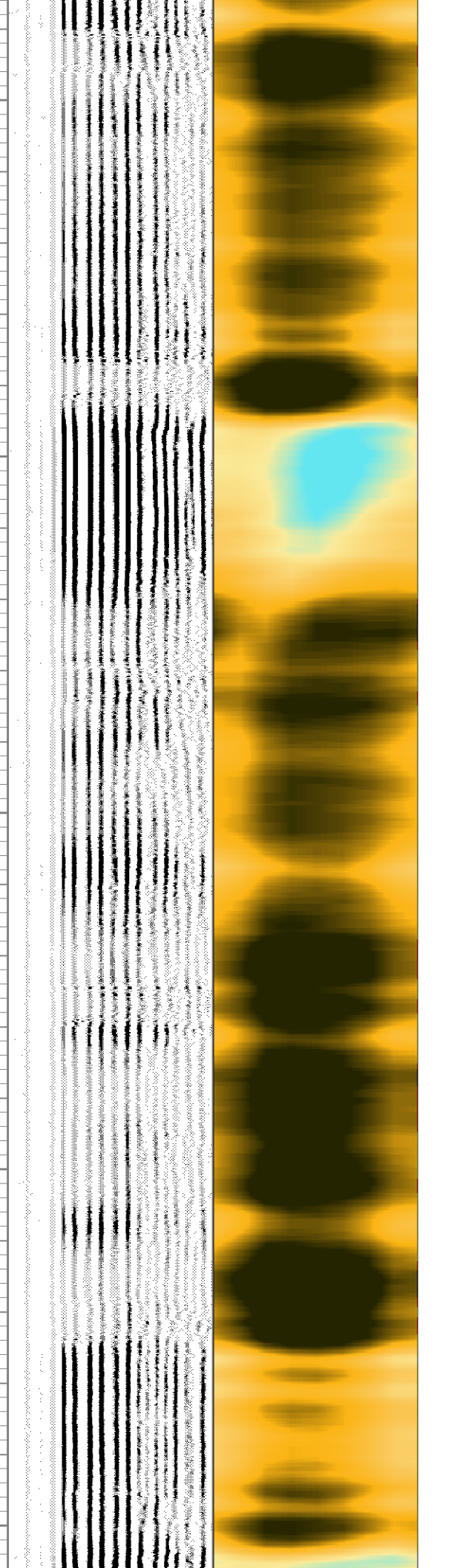
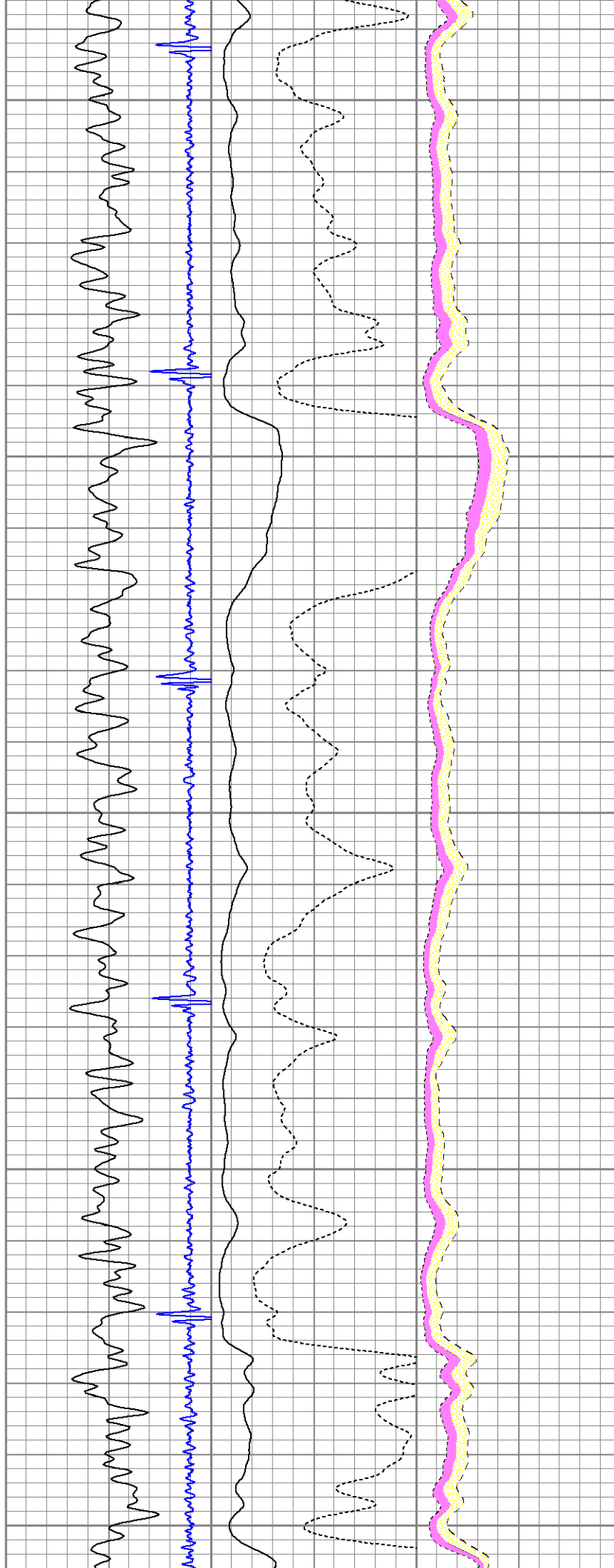
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3300

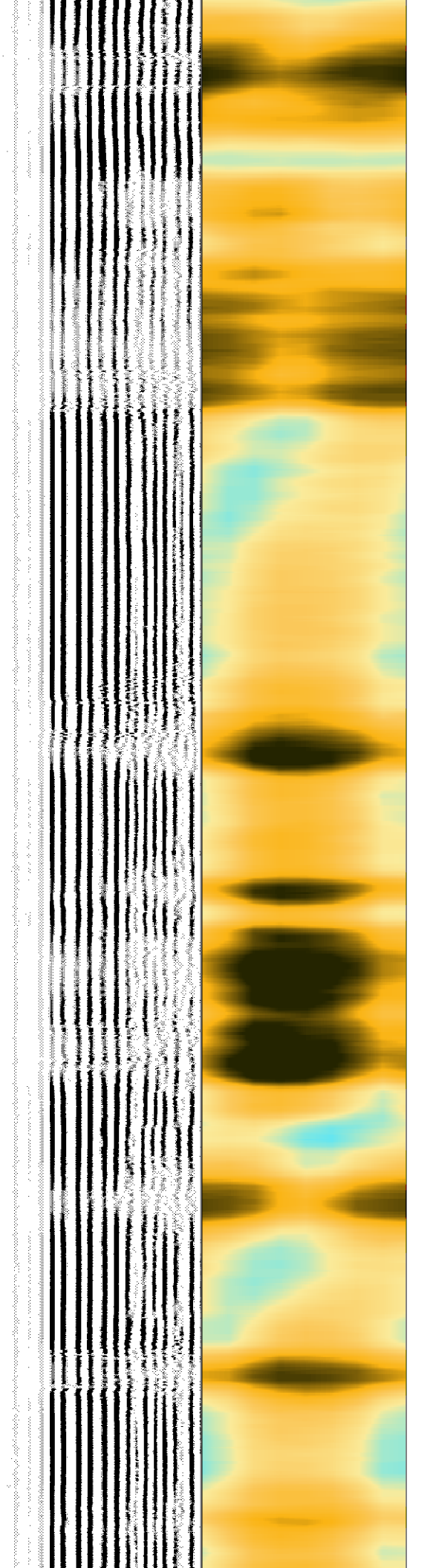
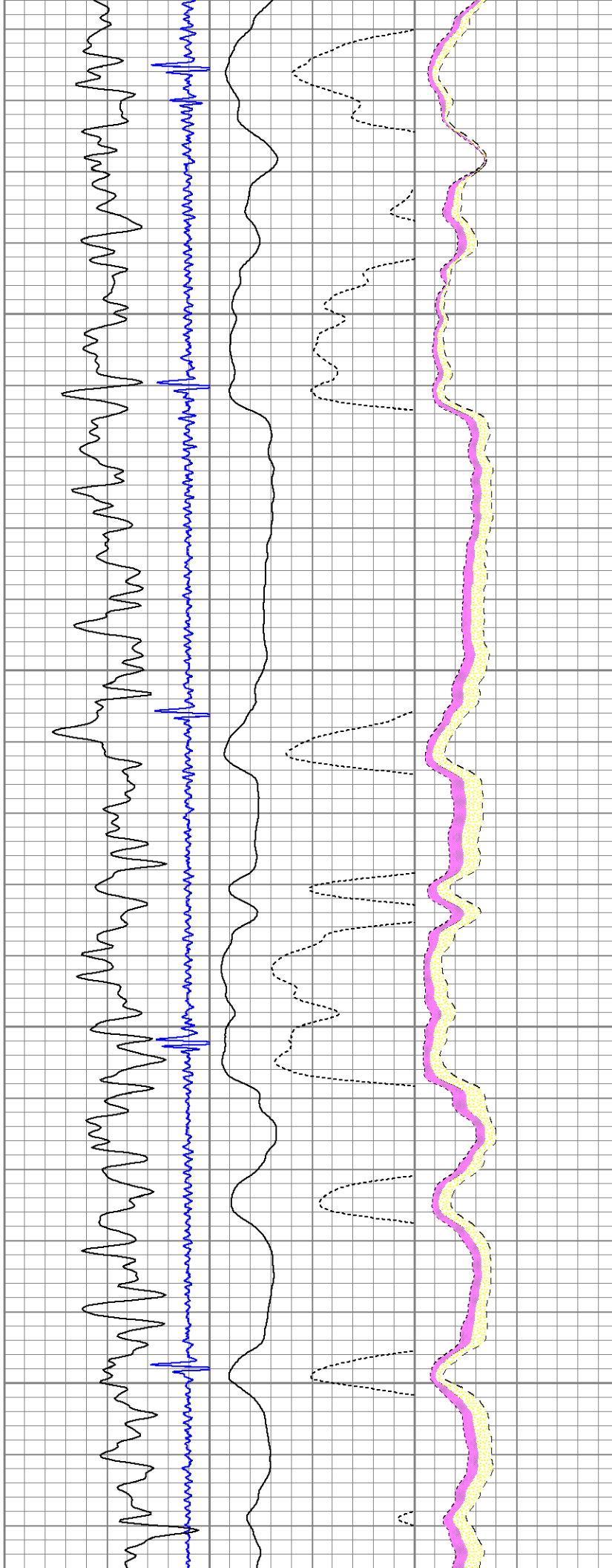
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3500



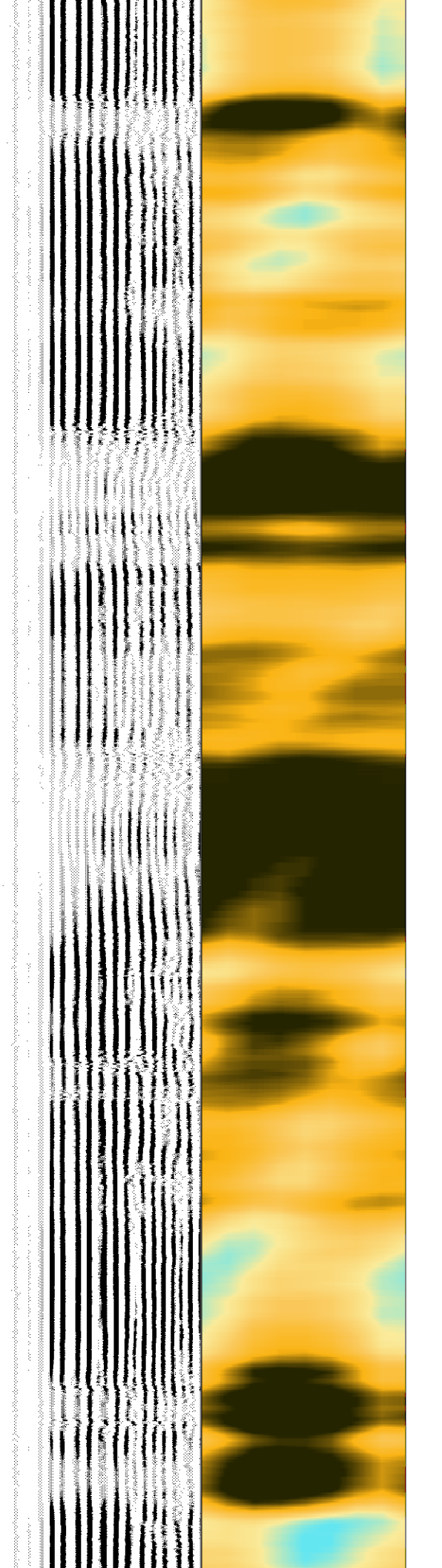
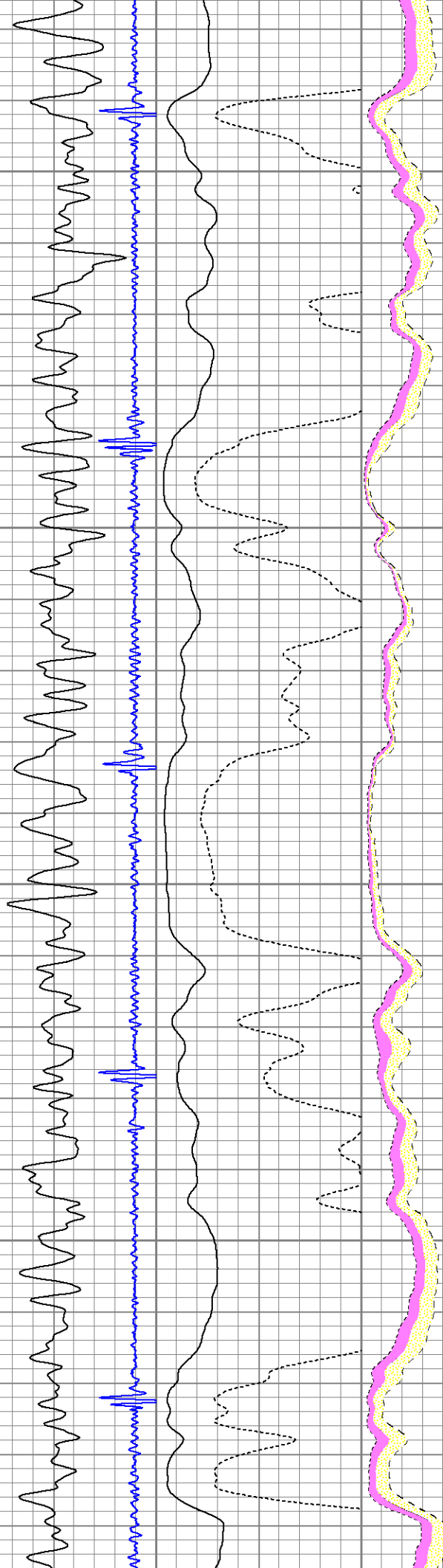
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3700



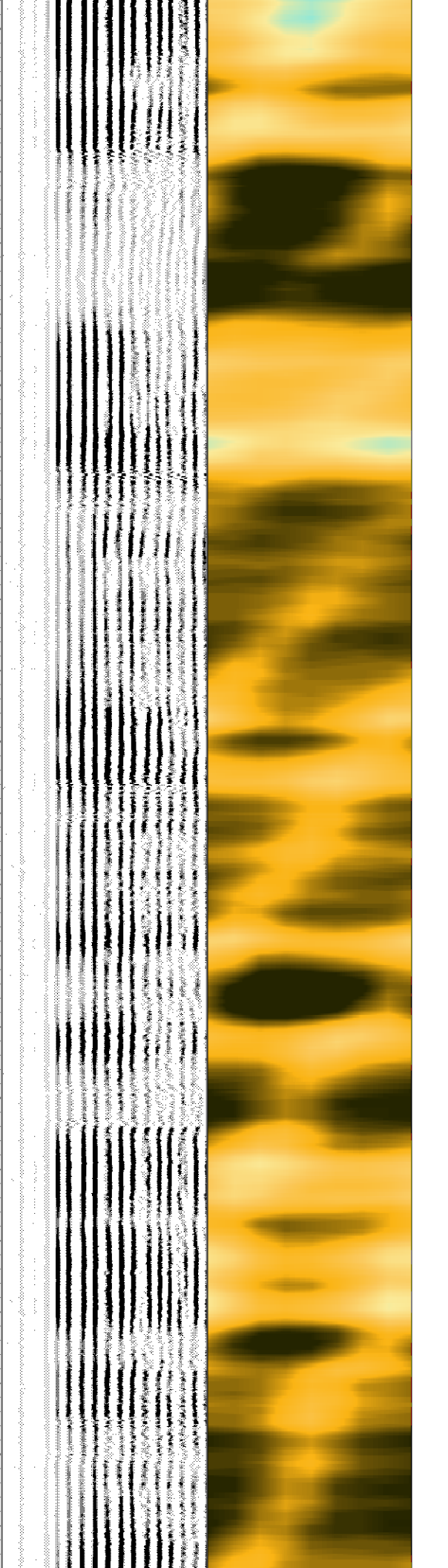
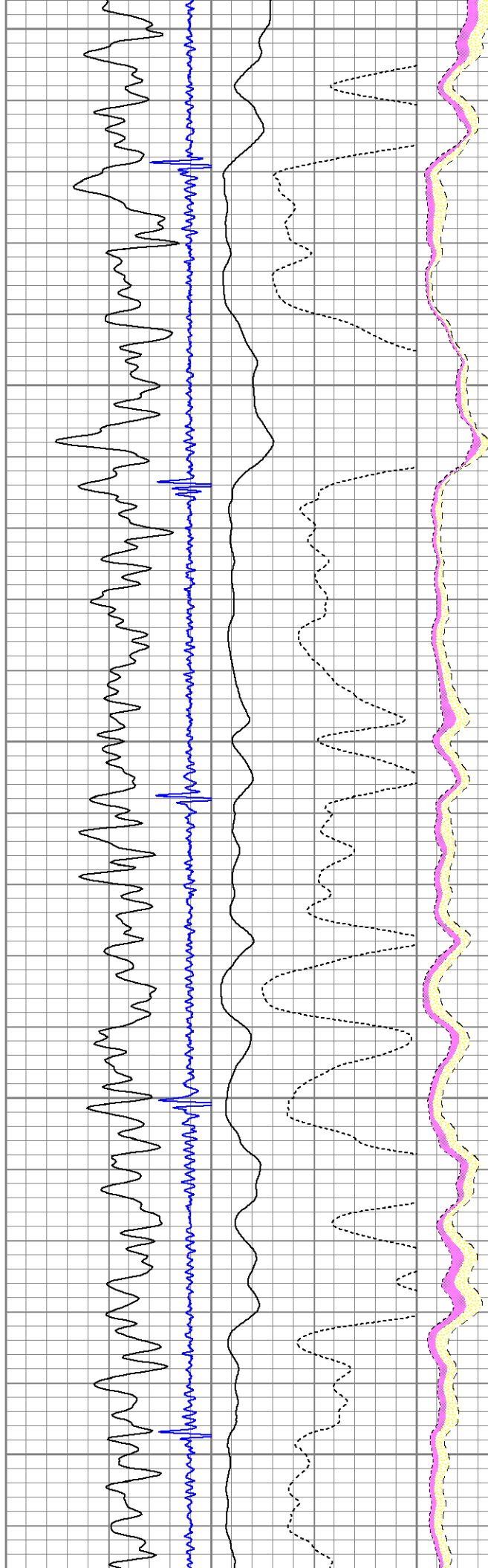
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3900



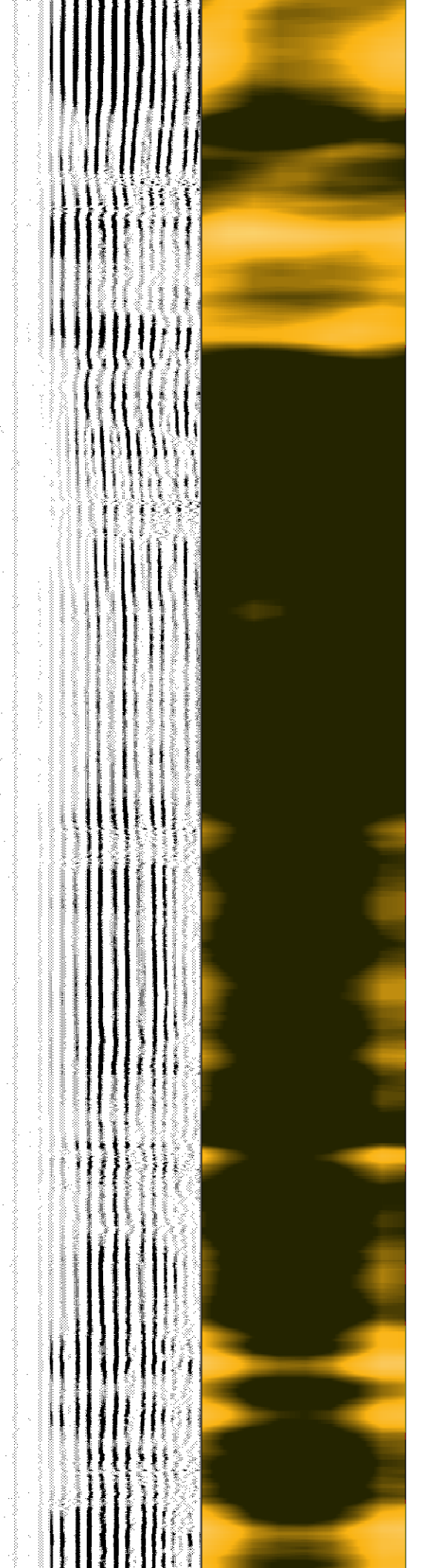
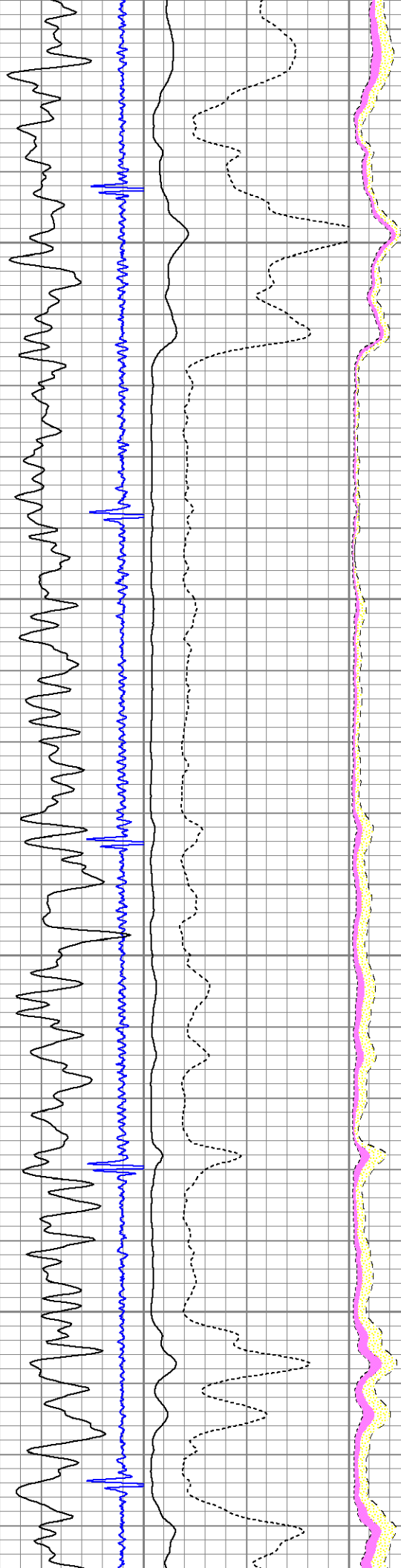
4100

4000



4200

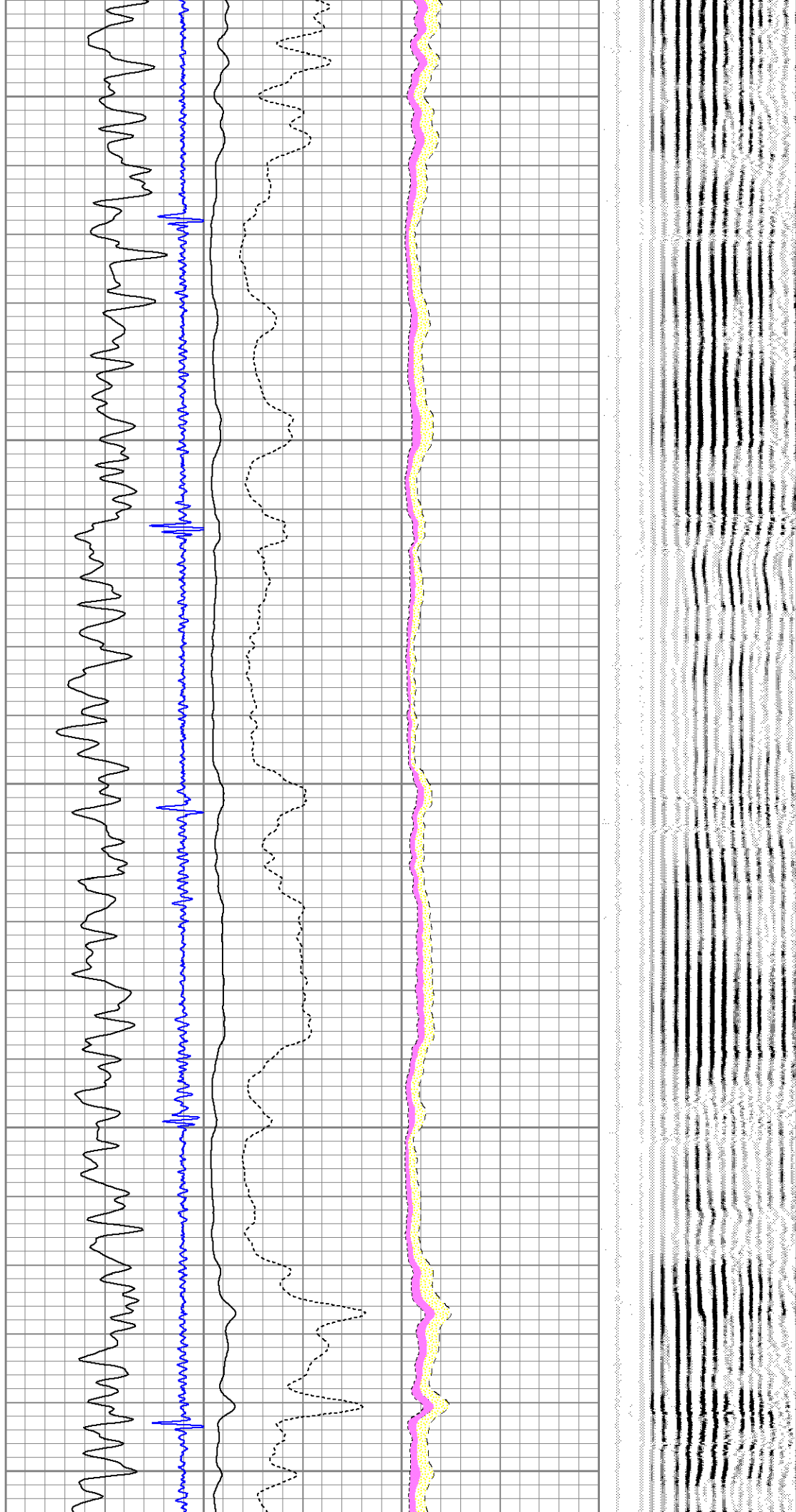
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4400

4500

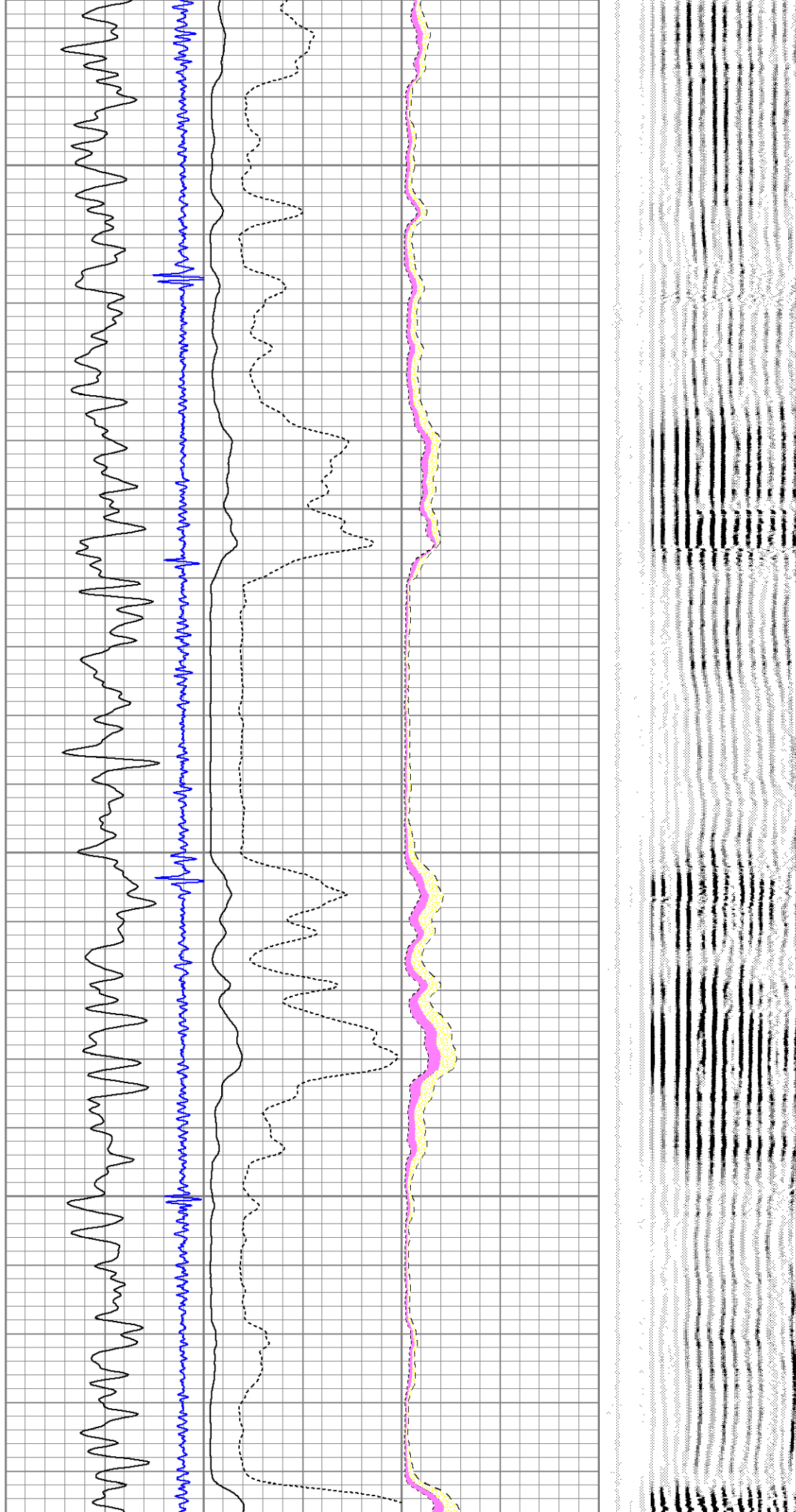
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4800

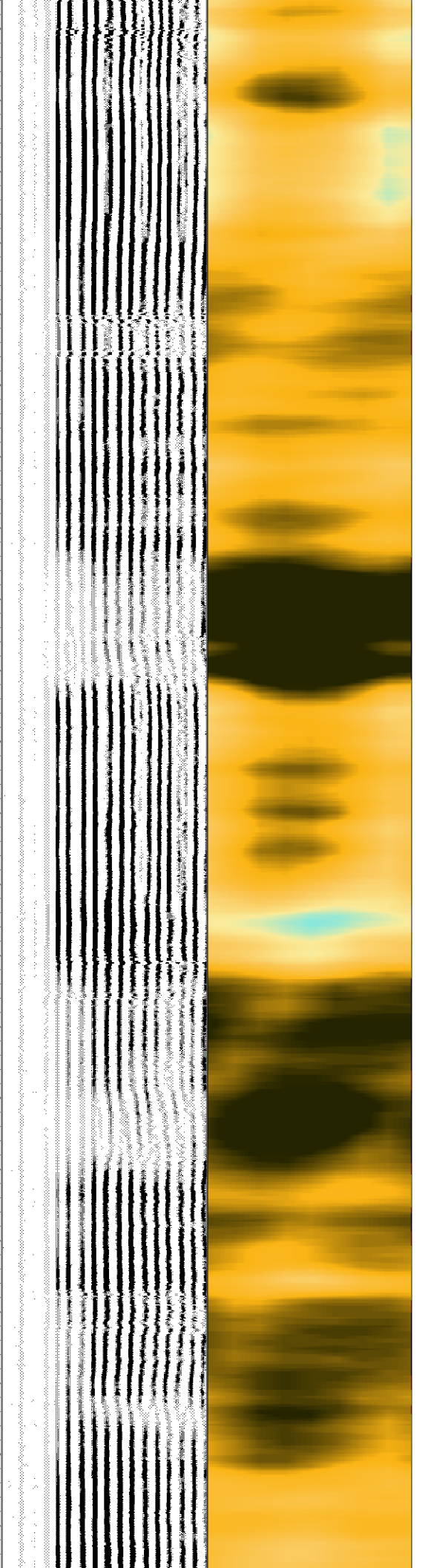
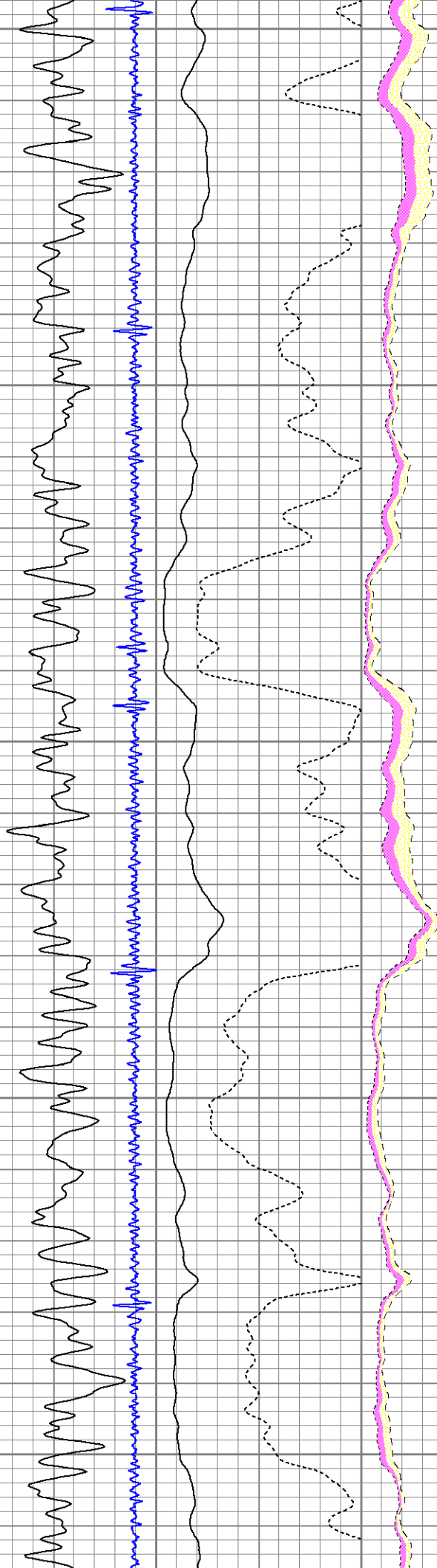
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5000



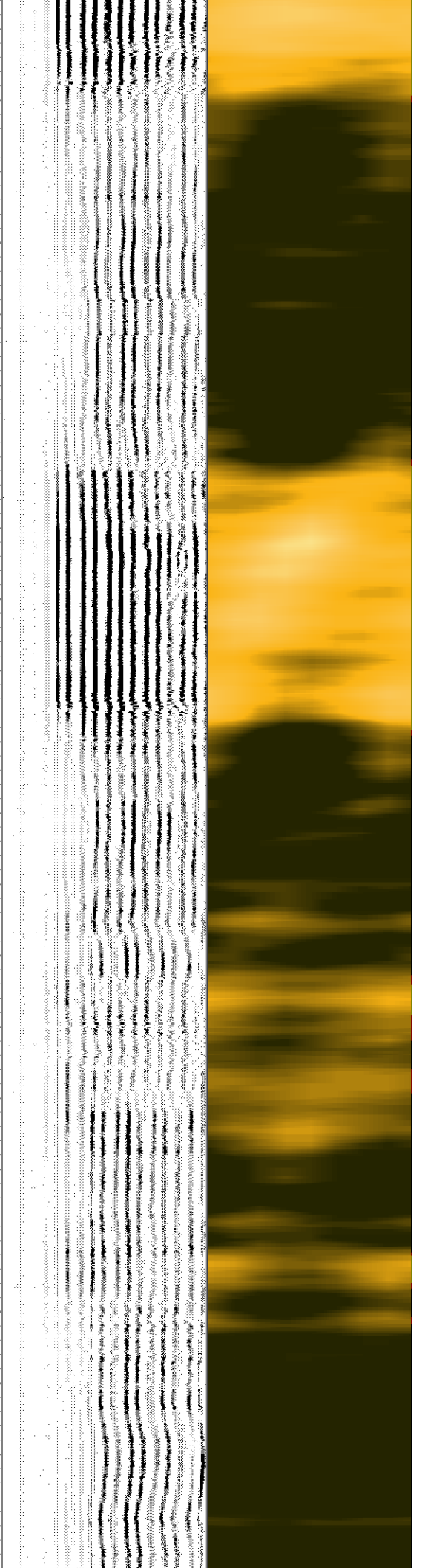
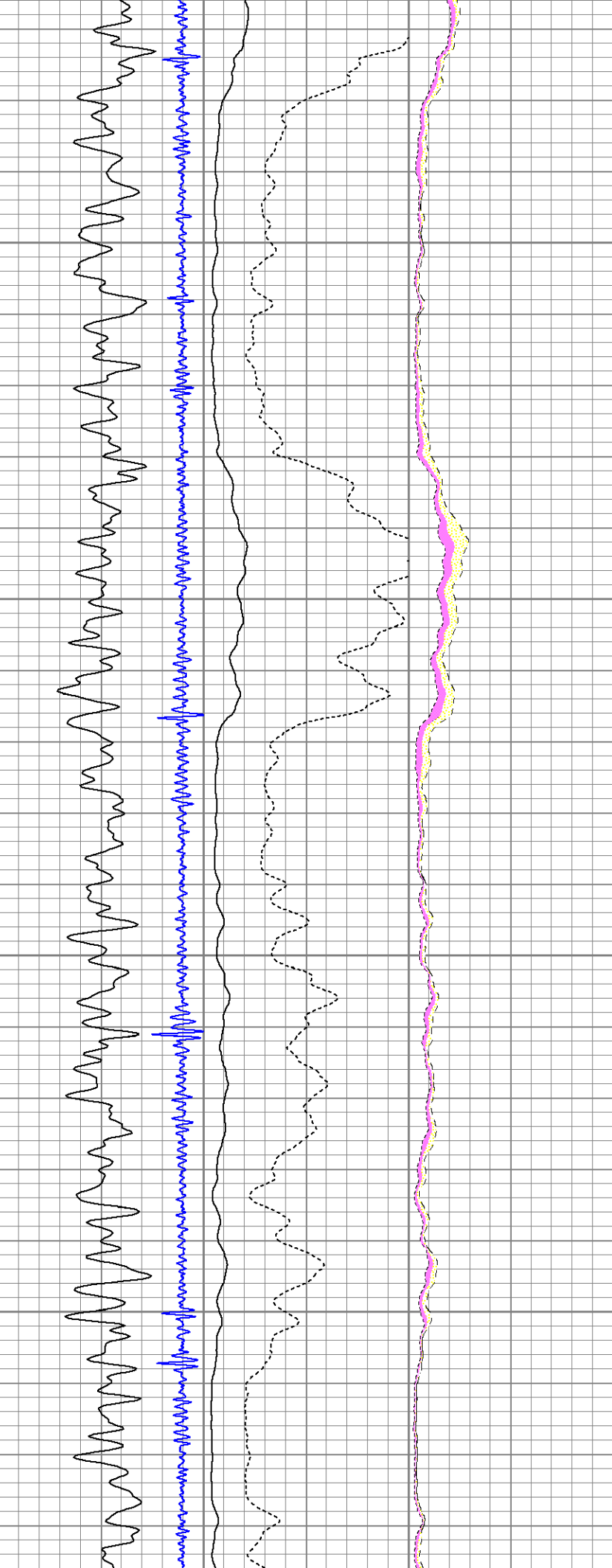
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5200



5300

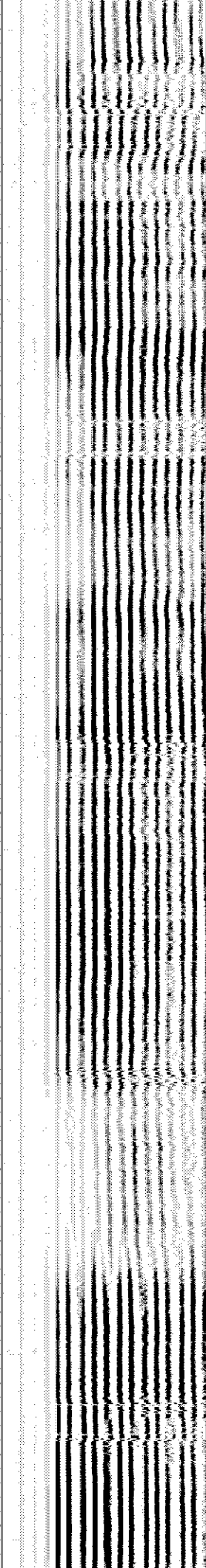
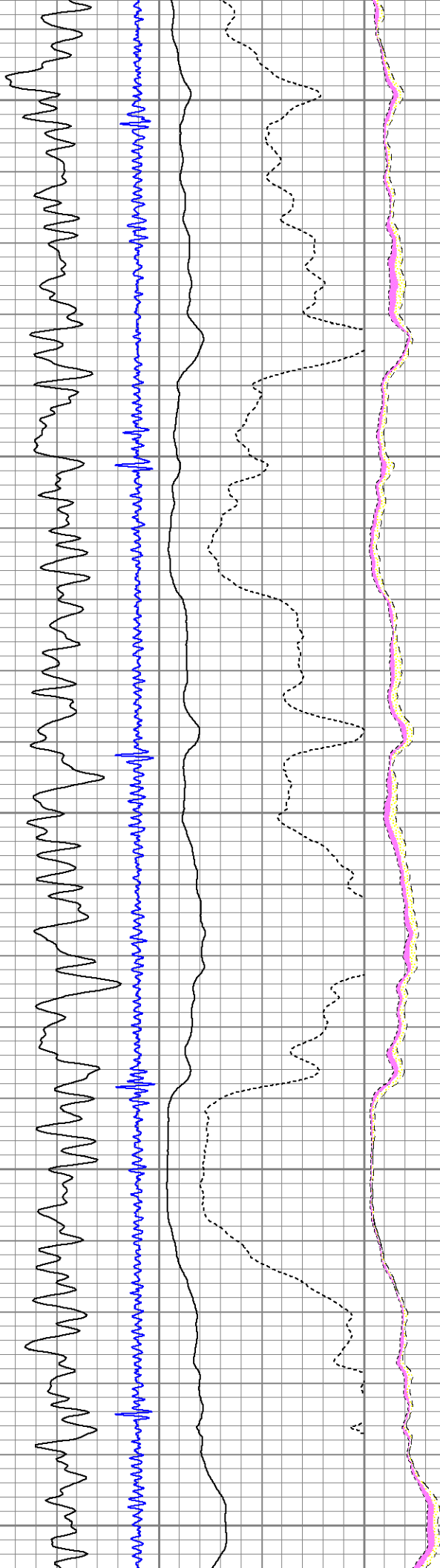
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5500

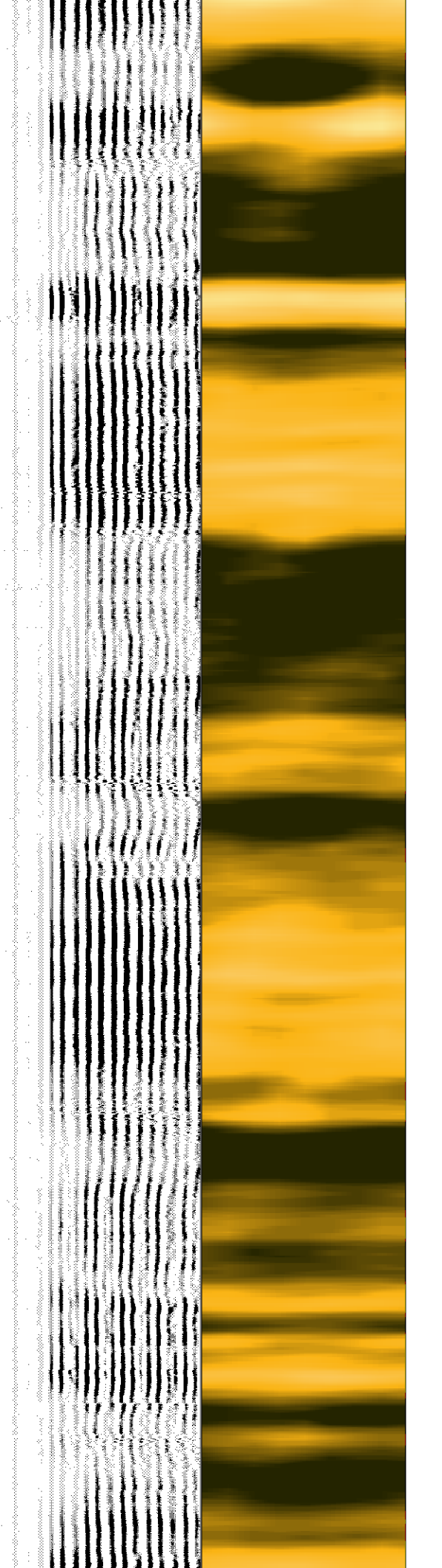
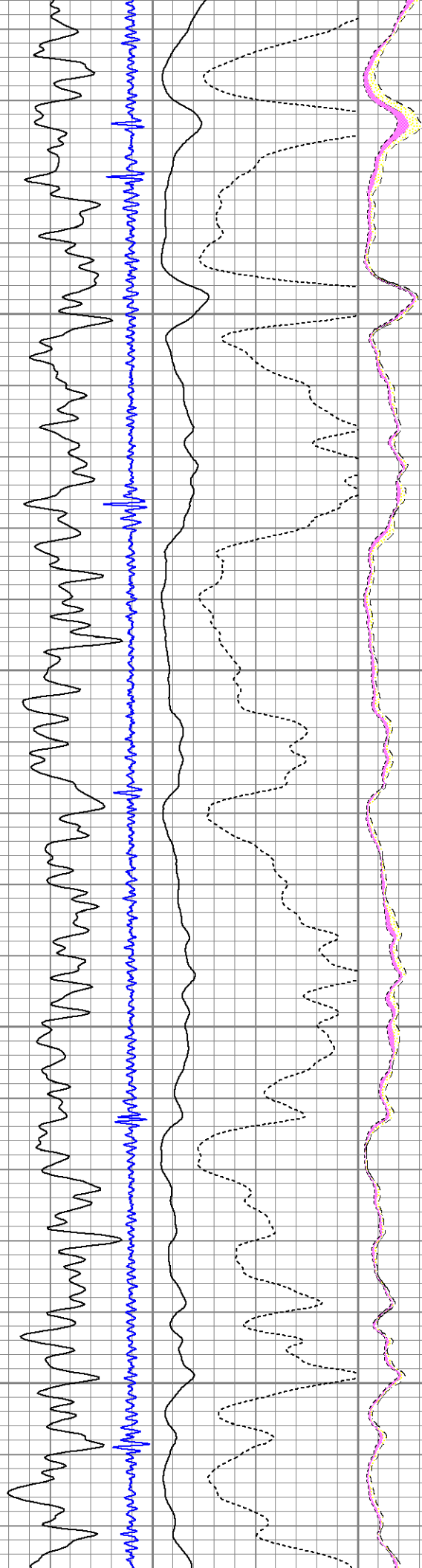
5600

5700



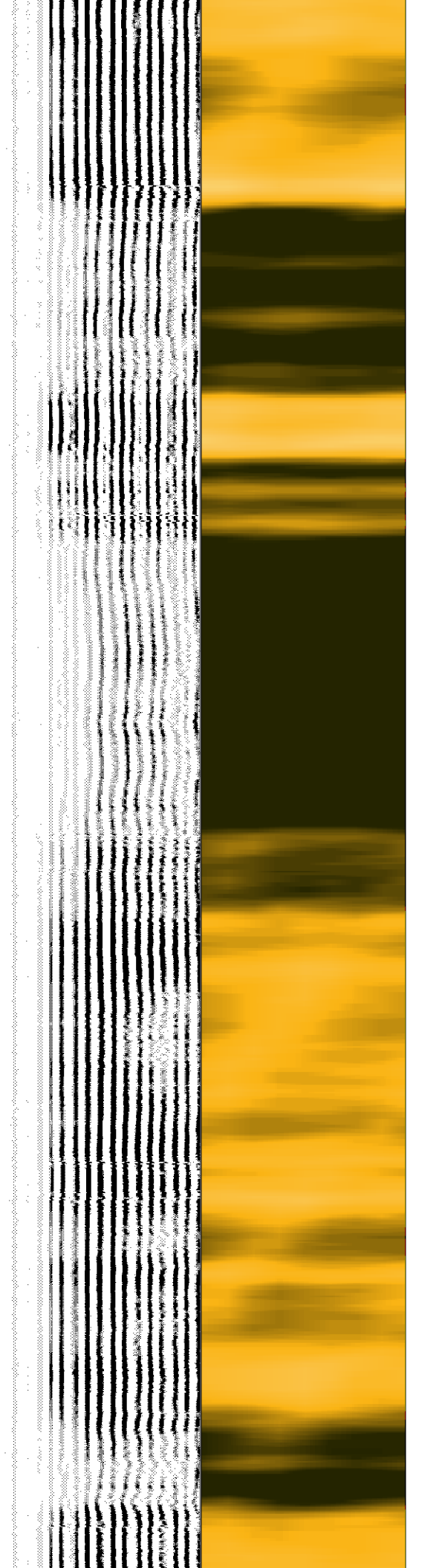
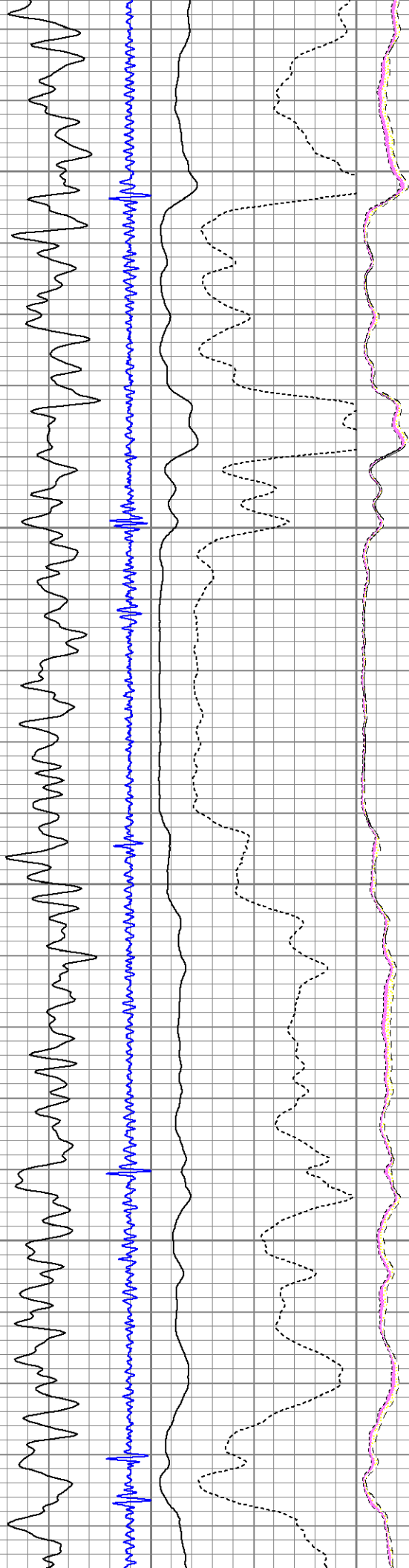
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5900



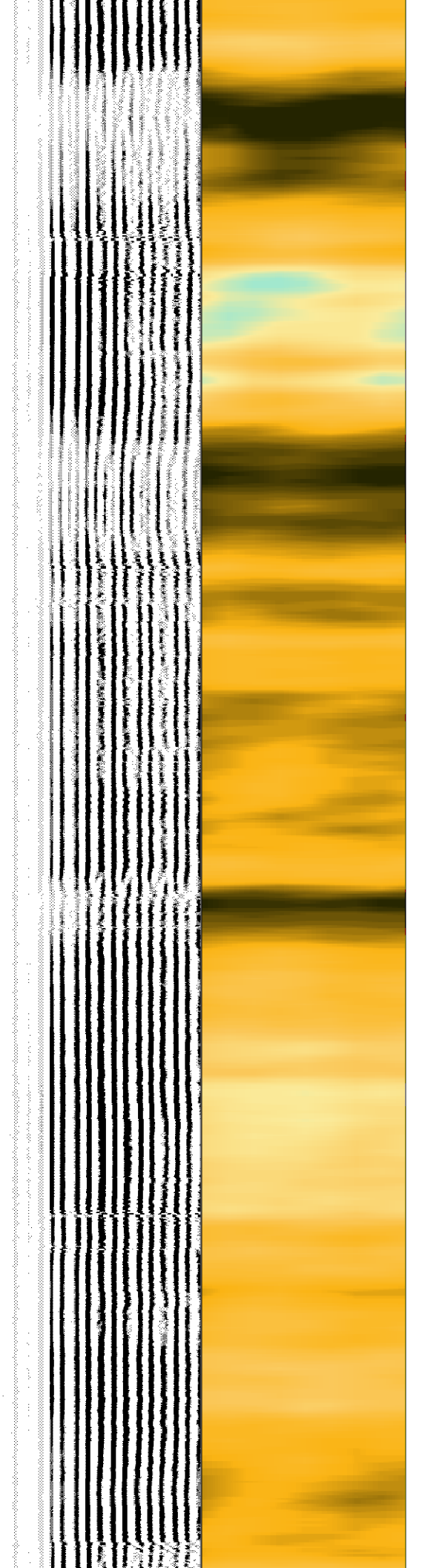
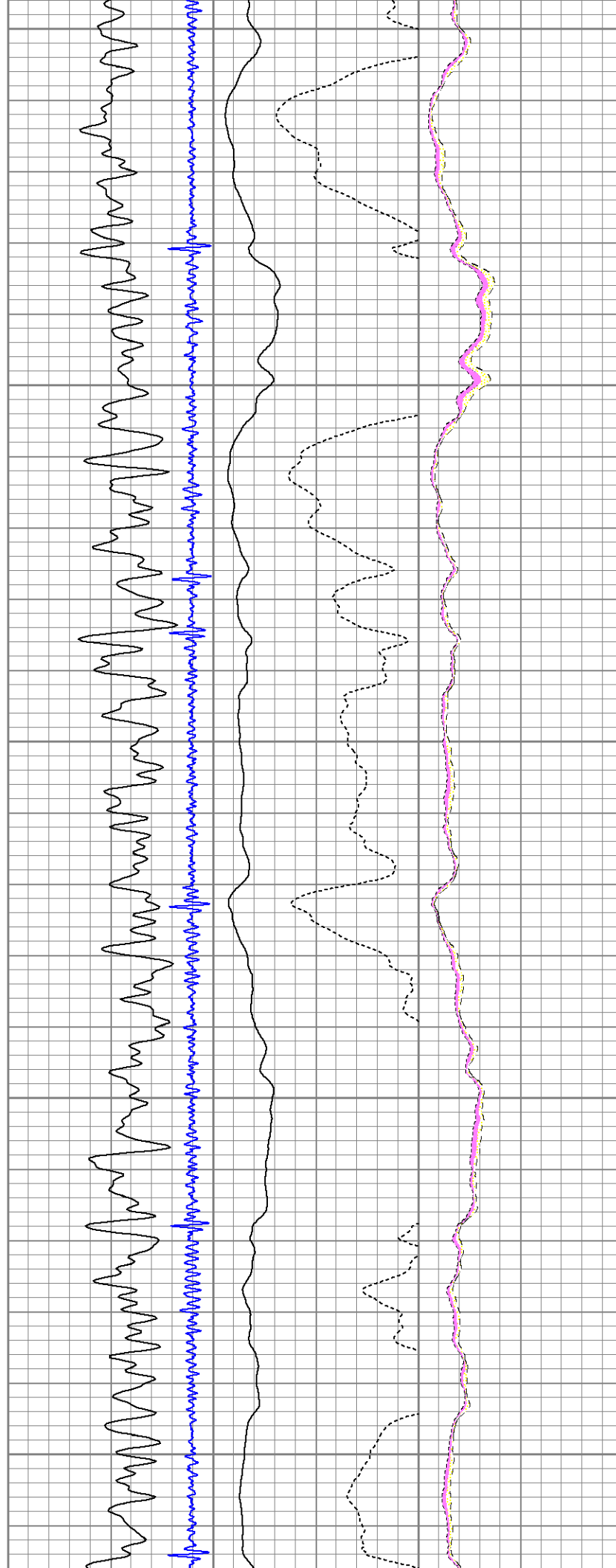
6000

6100



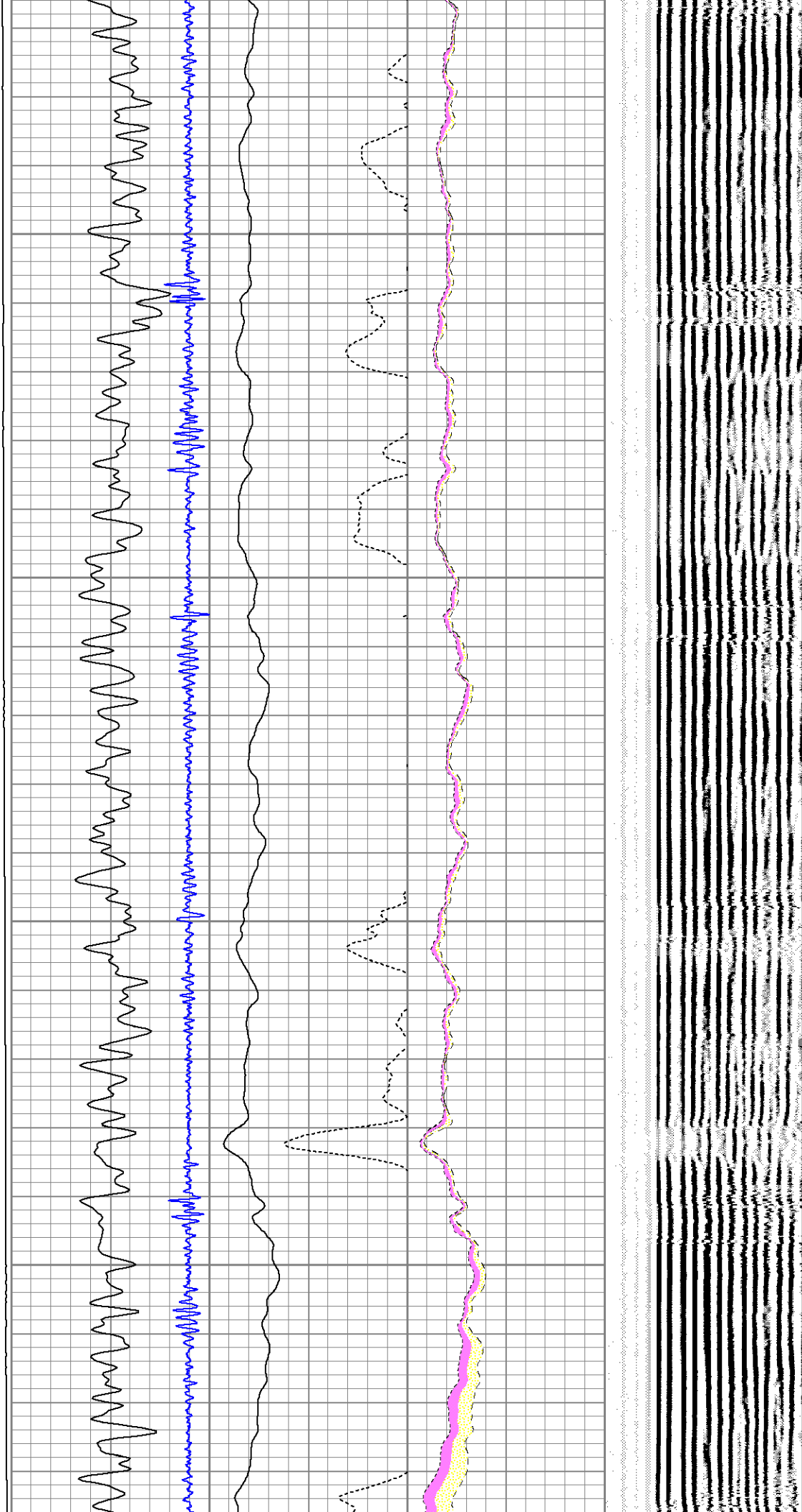
6200

6300



6400

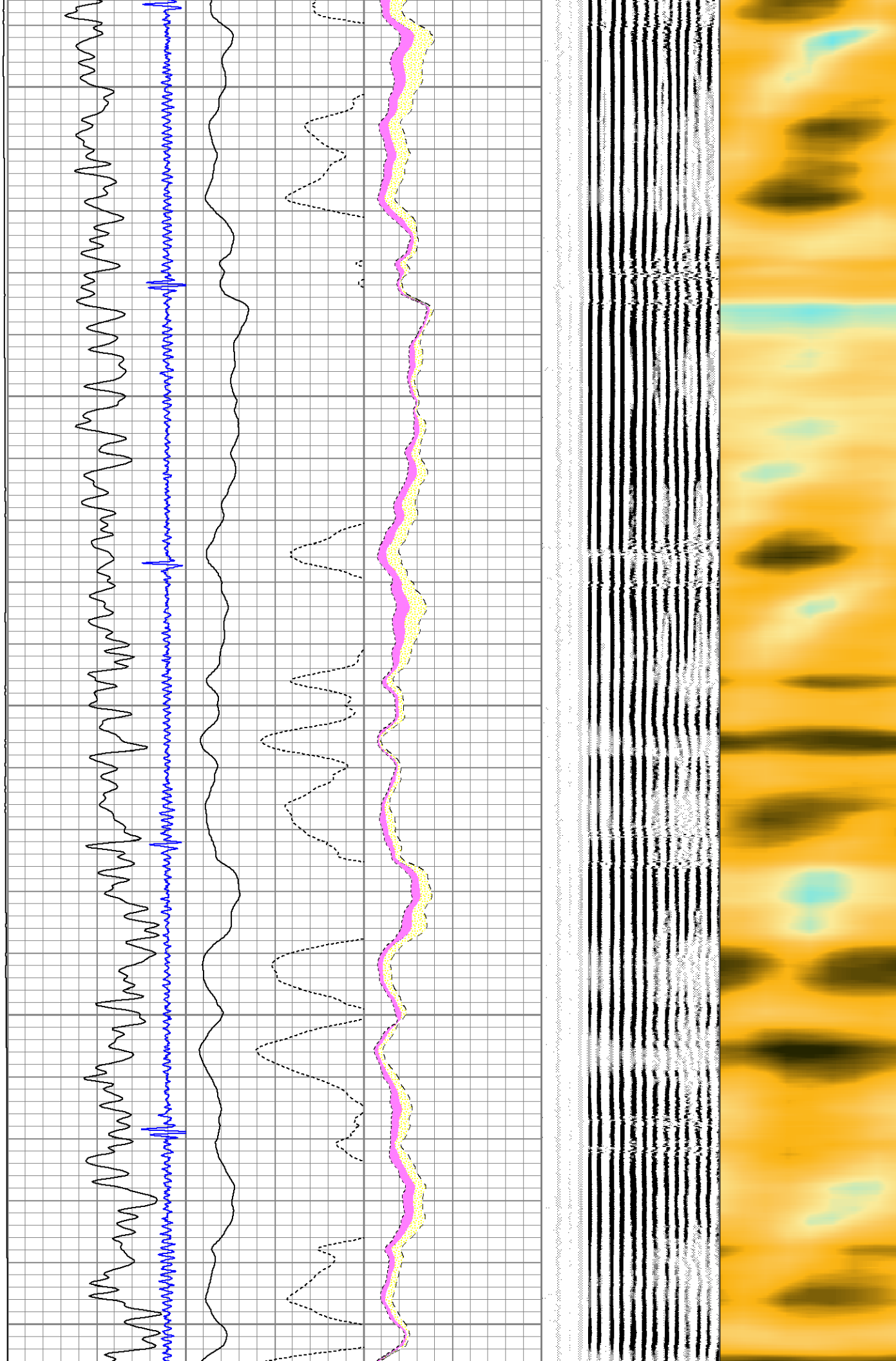
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6600

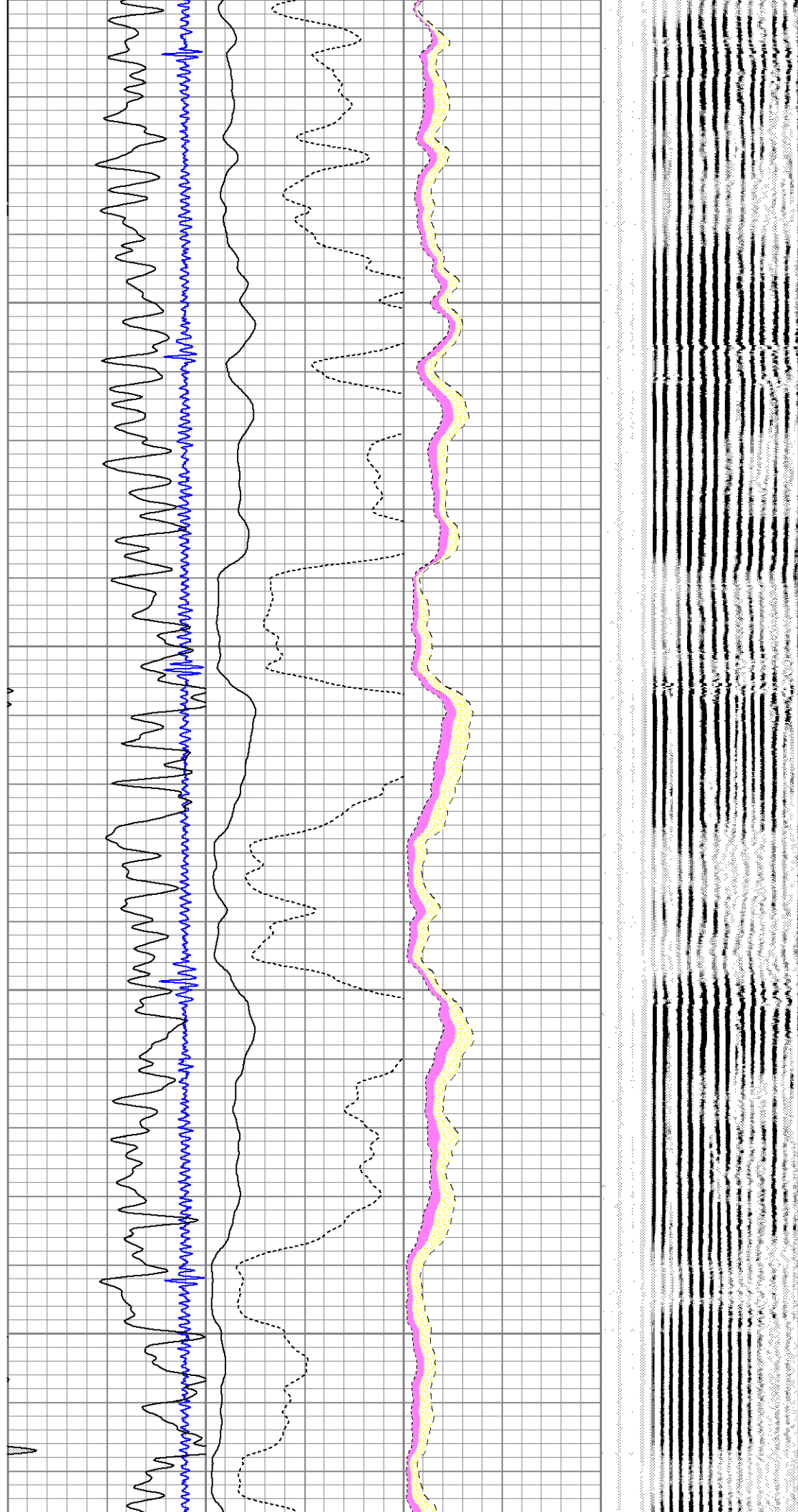
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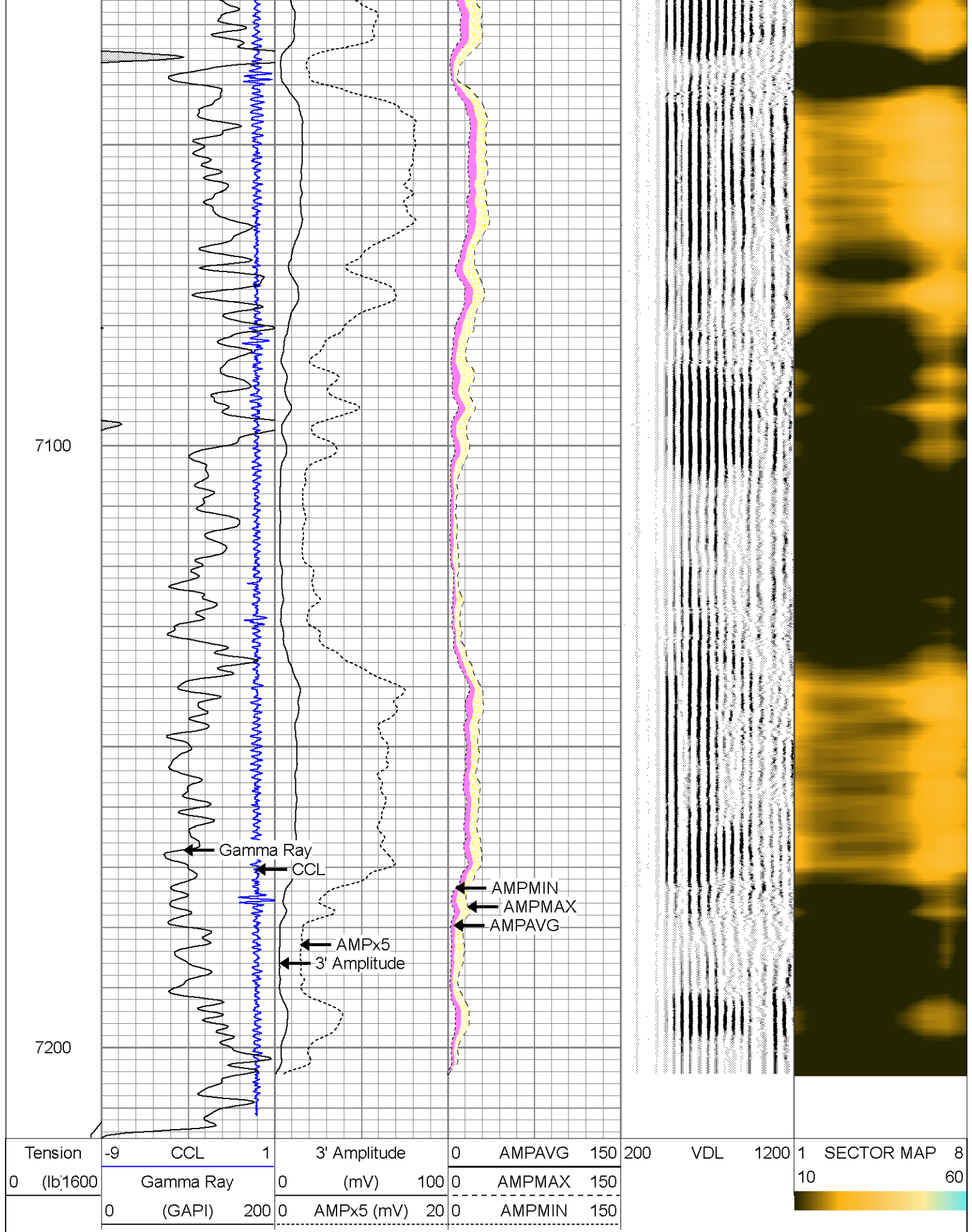
6800



6900

7000





MAIN LOG

ZERO PSI APPLIED AT SURFACE



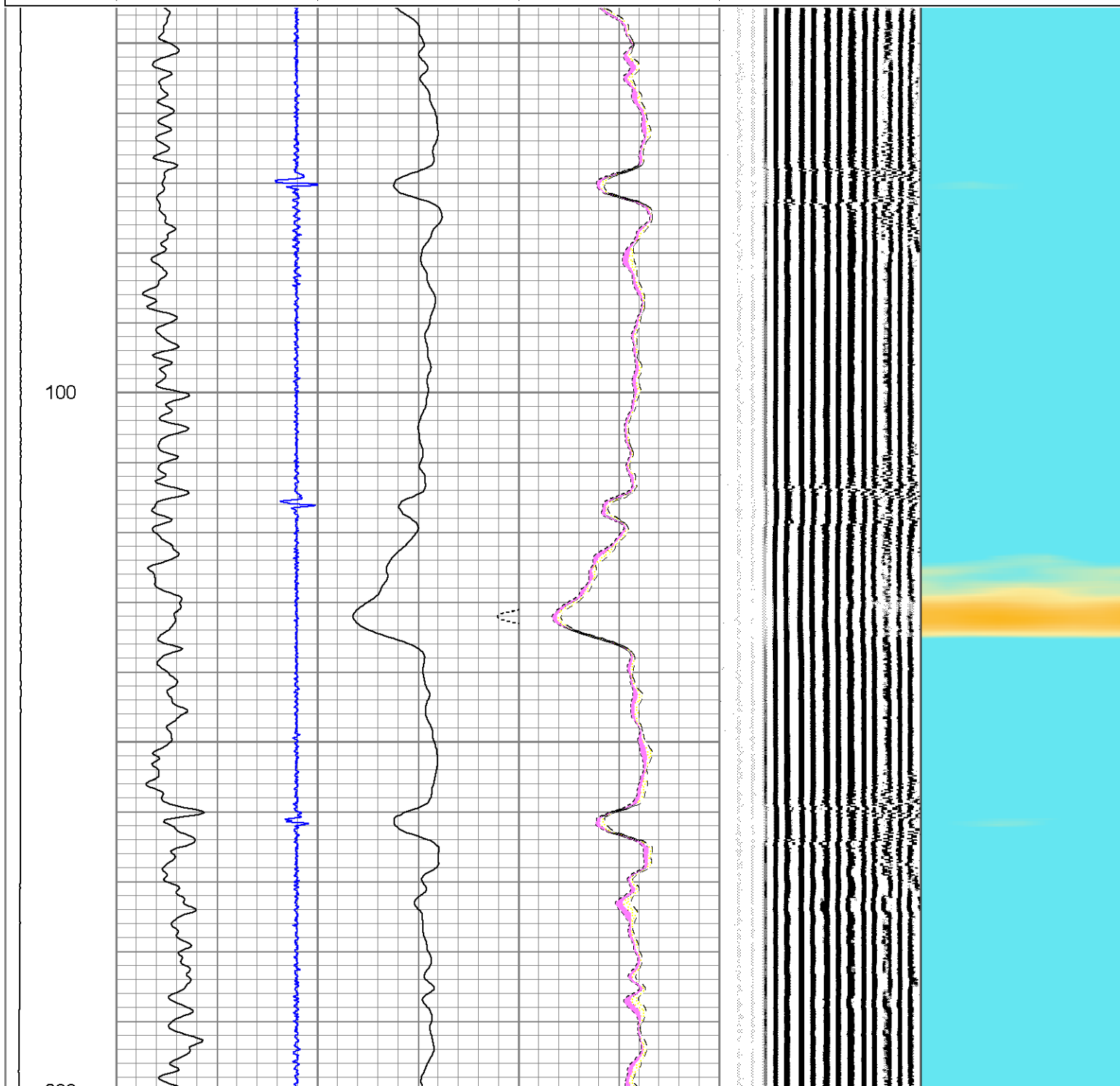
Pioneer Energy Services

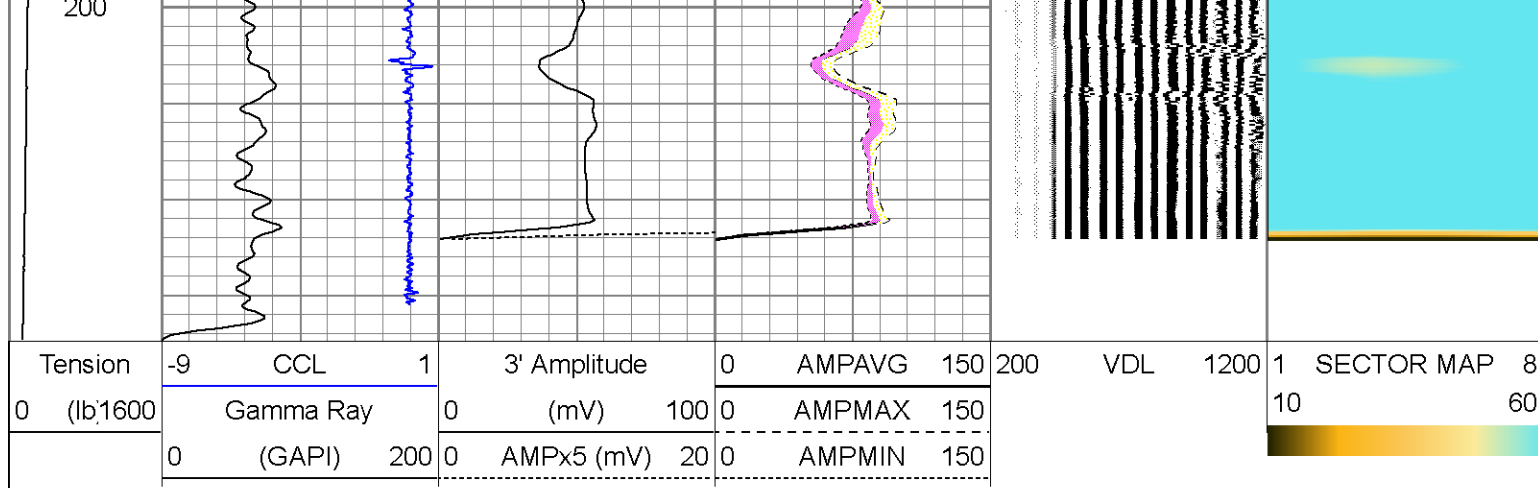
REPEAT SECTION

ZERO PSI APPLIED AT SURFACE

Database File: encana.db
 Dataset Pathname: pass8.1
 Presentation Format: scbl02
 Dataset Creation: Sat Nov 15 17:50:48 2014 by Calc 7.0 B1
 Charted by: Depth in Feet scaled 1:240

Tension	-9	CCL	1	3' Amplitude	0	AMPAVG	150	200	VDL	1200	1	SECTOR MAP	8
0 (lb/1600)		Gamma Ray		0 (mV)	100	0	AMPMAX	150			10		60
	0	(GAPI)	200	0 AMPx5 (mV)	20	0	AMPMIN	150					





REPEAT SECTION

ZERO PSI APPLIED AT SURFACE

Calibration Report

Database File: encana.db
 Dataset Pathname: pass6.2
 Dataset Creation: Sat Nov 15 17:39:03 2014 by Calc 7.0 B1

Gamma Ray Calibration Report

Serial Number: 110249
 Tool Model: Probe
 Performed: Sun Sep 28 17:05:25 2014

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
 Calibrator Reading: 1.0 cps

Sensitivity: 1.0300 GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number: 070132
 Tool Model: Probe275

Calibration Casing Diameter: 7.000 in
 Calibration Depth: 1466.860 ft

Master Calibration, performed Sat Nov 15 17:38:57 2014:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.002	0.919	1.000	62.200	66.761	0.870
CAL	0.013	0.931				
5'	0.002	0.879	1.000	62.200	69.818	0.850
SUM						
S1	0.002	0.915	0.000	100.000	109.595	-0.241
S2	0.002	0.936	0.000	100.000	107.007	-0.193
S3	0.002	0.981	0.000	100.000	102.074	-0.164
S4	0.002	0.995	0.000	100.000	100.673	-0.192
S5	0.002	0.942	0.000	100.000	106.434	-0.265
S6	0.003	0.917	0.000	100.000	109.361	-0.320
S7	0.003	0.904	0.000	100.000	110.991	-0.320

S8	0.003	0.908	0.000	100.000	110.523	-0.372
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	0.013	0.931	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	

Company	ENCANA				
Well	NEWNAM 2C-32H				
Field	WATTENBERG				
County	WELD		State	CO	