

Pioneer Energy Services

PIONEER**GAMMA RAY CCL
CEMENT BOND VDL
SECTOR MAP**

Company	EnCana Oil & Gas (USA) Inc.	Country	USA
Well	Newman 2A-32H C264		
Field	Wattenberg		
County	Weld		
State	Colorado		
Location:	AP1 #: 05-123-39775	Other Services	None
Permanent Datum	GL	Elevation	4952
Log Measured From	KB		
Drilling Measured From	KB		
SEC	32	TWP	2N
RGE	64W		
SHL: 307' FNL & 1547' FWL NE NW			

Date	October 26, 2014
Run Number	1
Depth Driller	11701
Depth Logger	7385
Bottom Logged Interval	7385
Top Log Interval	0
Open Hole Size	8-3/4"
Type Fluid	WBM
Density / Viscosity	10.5 / 41
Max. Recorded Temp.	NA
Estimated Cement Top	850
Time Well Ready	0800
Time Logger on Bottom	0900
Equipment Number	49
Location	Ft. Morgan, CO
Recorded By	Tracy Crane
Witnessed By	Mike Roane

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
Casing Record	Size	Wgt/Ft	Top	Bottom			
Surface String	16	80	0	30			
Prot. String	9 5/8	40	0	886			
Production String	7"	26 lbs	0	7605			
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

Depth Correlated to 7" Tally & MWD GR log at 7220'

Ensign # 124

Thank You for using Pioneer Energy Services

SO# 2-013700

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

			CENT #2 -A (1)	2.83	2.75	20.00
IntTemp	14.66					
TEMP	13.64					
			RBT-RBT-C3 (130584) Probe Radii Bond Tool with Digital Telemetry	9.33	2.75	90.00
WVF3FT	11.41					
WVFCAL	11.41					
WVFS1	11.41					
WVFS2	11.41					
WVFS3	11.41					
WVFS4	11.41					
WVFS5	11.41					
WVFS6	11.41					
WVFS7	11.41					
WVFS8	11.41					
WVF5FT	10.41					
			CENT-A (1)	2.83	2.75	20.00
CCL	3.92					
			GR-probe 2.75 (51013) probe Digital CCL Gamma	4.33	2.75	100.00
GR	1.13					
Dataset: 13700.db: field/well/run1/pass2 Total Length: 19.32 ft Total Weight: 230.00 lb O.D. 2.75 in						

Database File: 13700.db
 Dataset Pathname: pass2.1
 Presentation Format: scbl02
 Dataset Creation: Sun Oct 26 10:18:57 2014 by Calc 0
 Charted by: Depth in Feet scaled 1:240

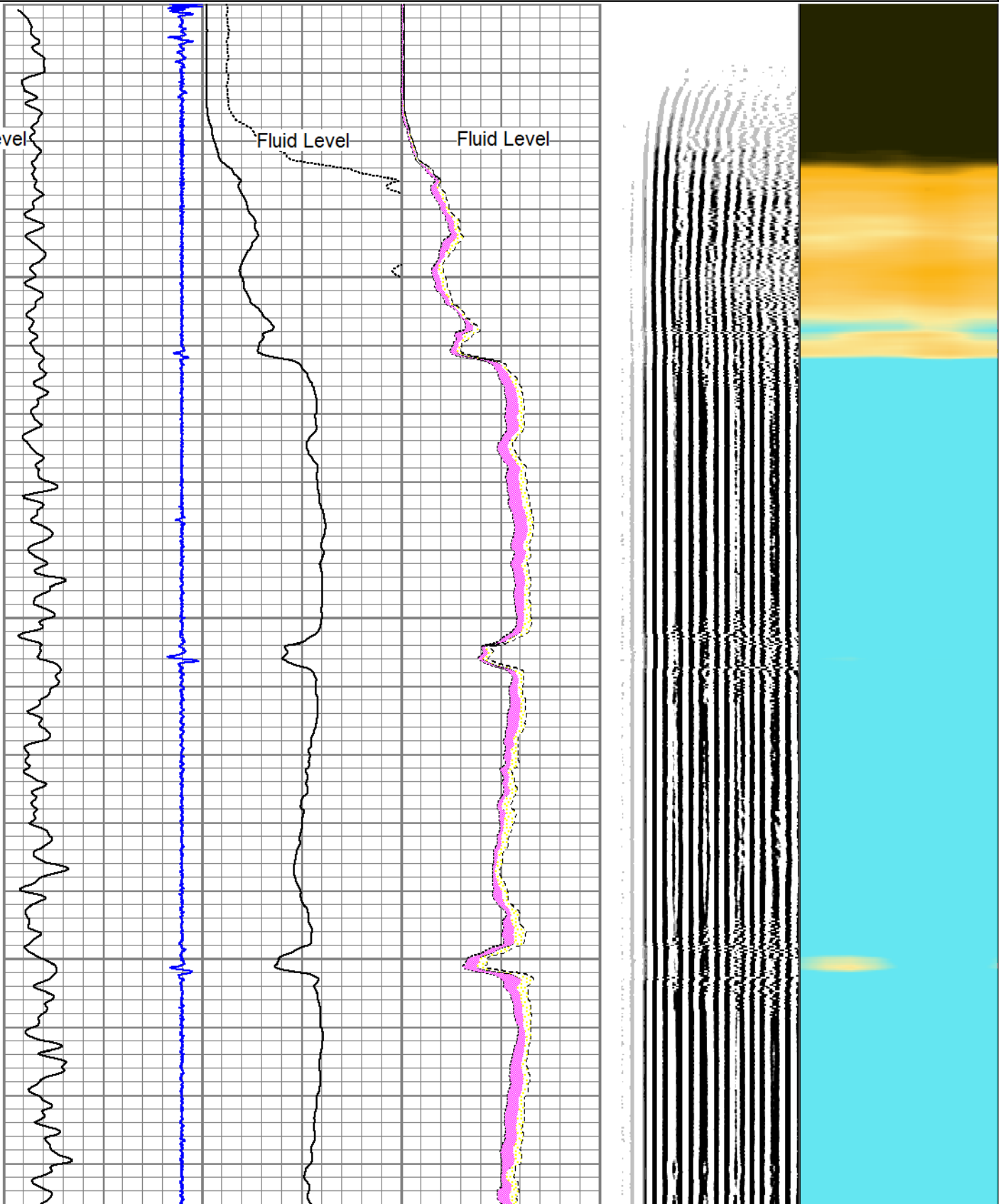
-9	CCL	1	0	AMP (mV)	100	0	AMPAVG	150	200	VDL	1200	1	SECTOR MAP	8
0	GR (GAPI)	200	0	AMPx5 (mV)	20	0	AMPMAX	150				10		60
						0	AMPMIN	150						

Fluid Level

Fluid Level

Fluid Level

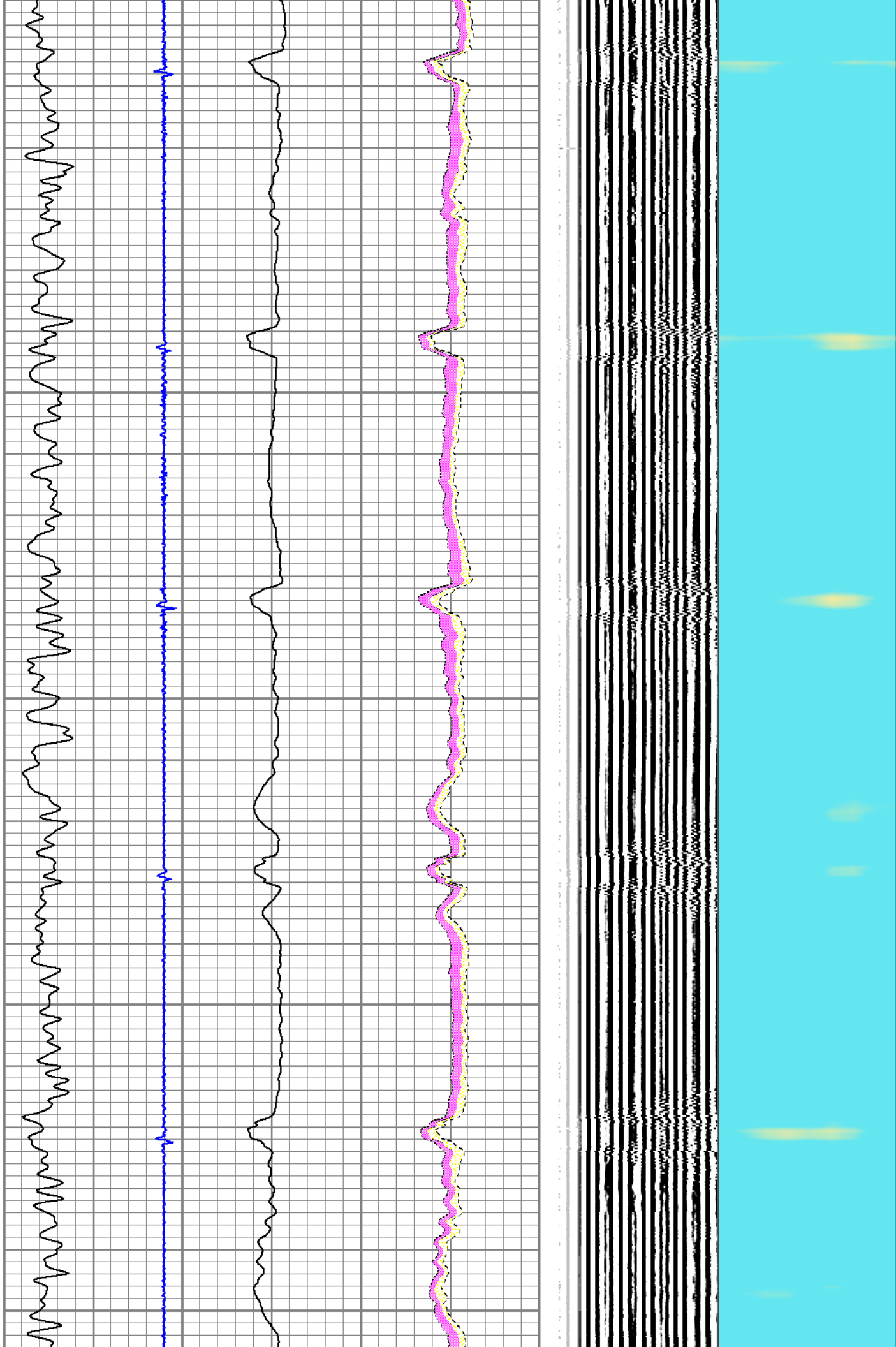
100



200

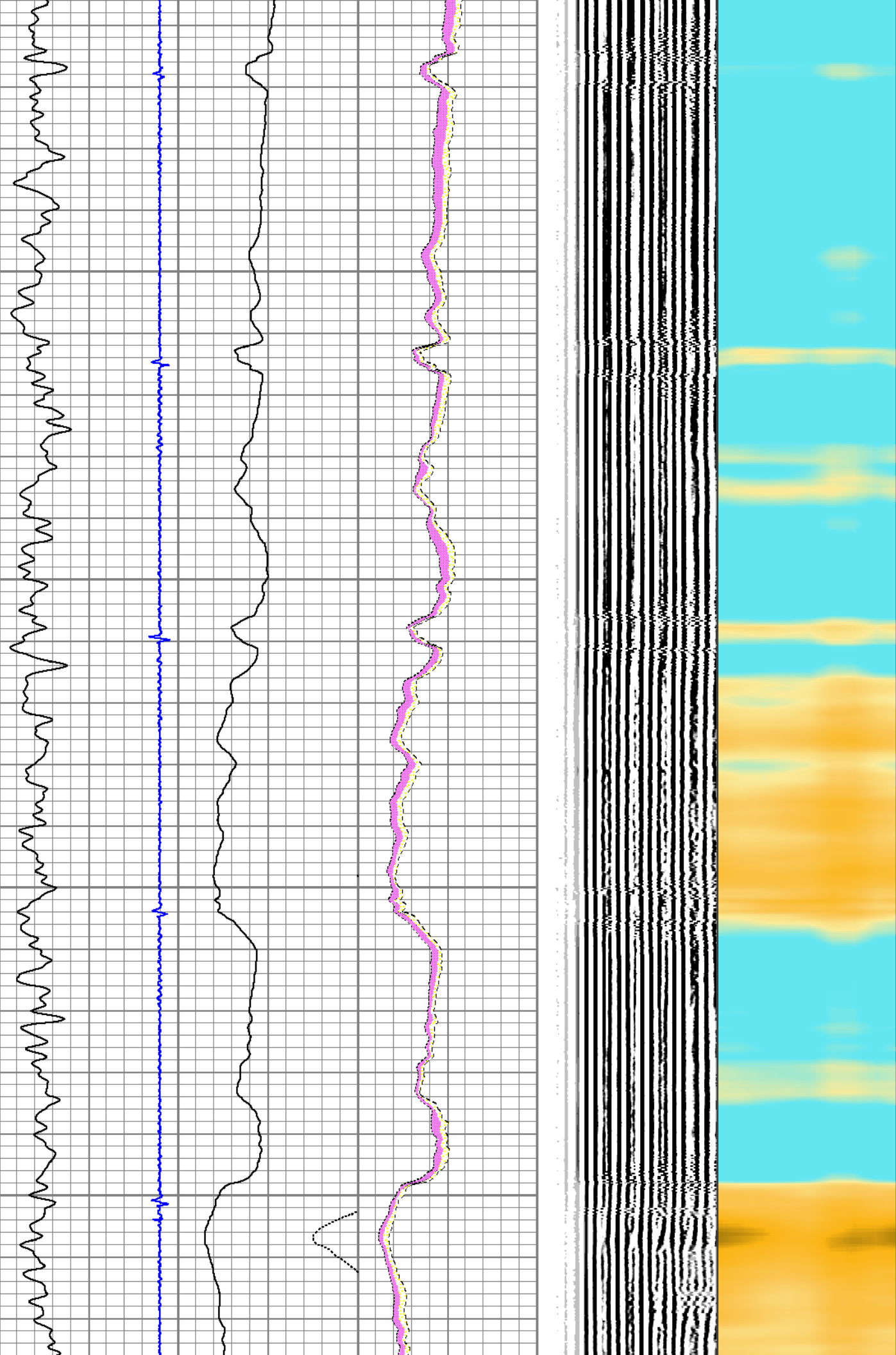
300

400



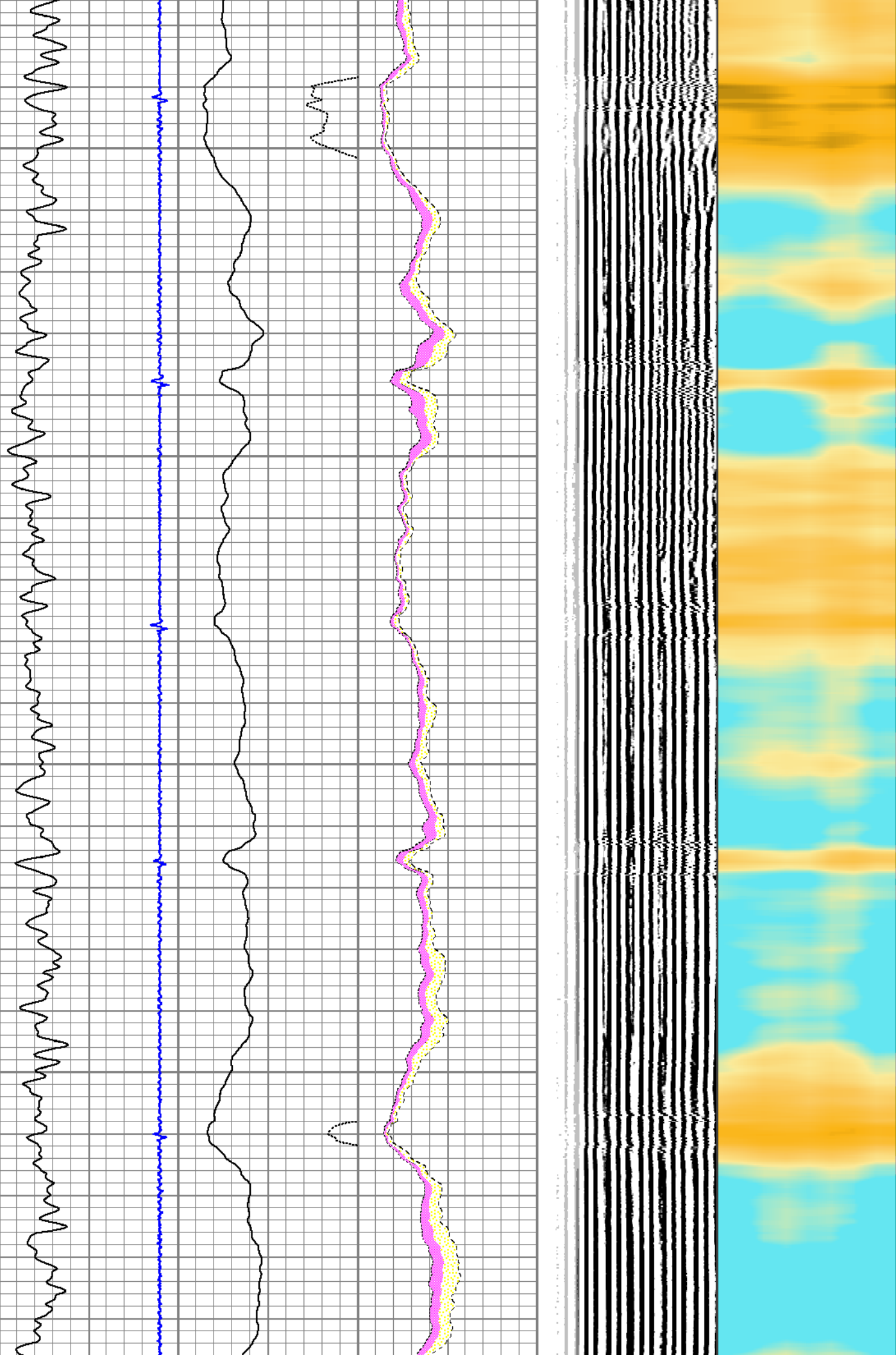
500

600



700

800



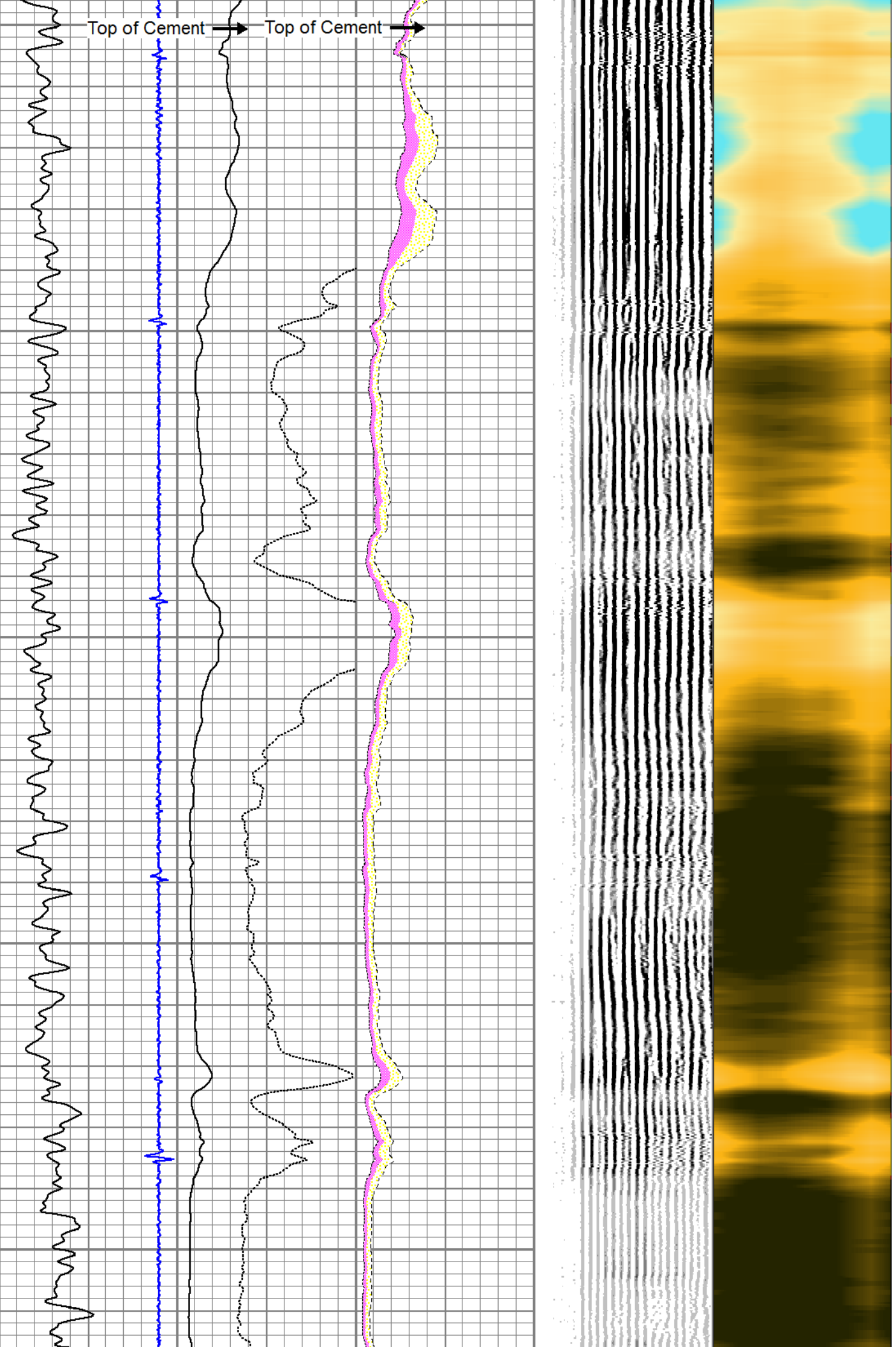
Cement →

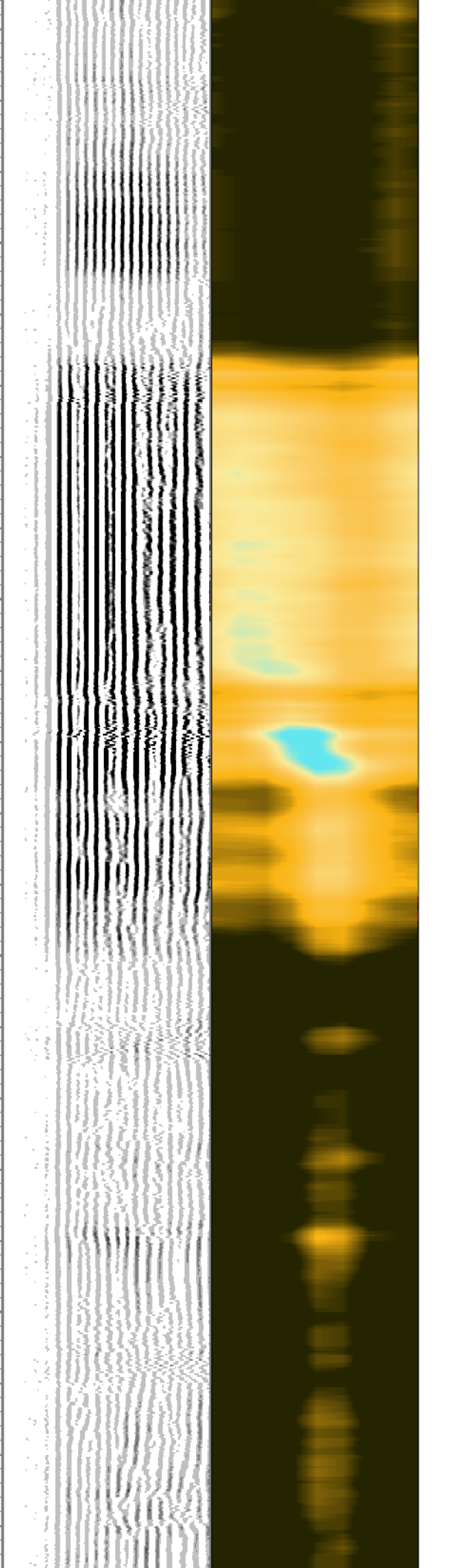
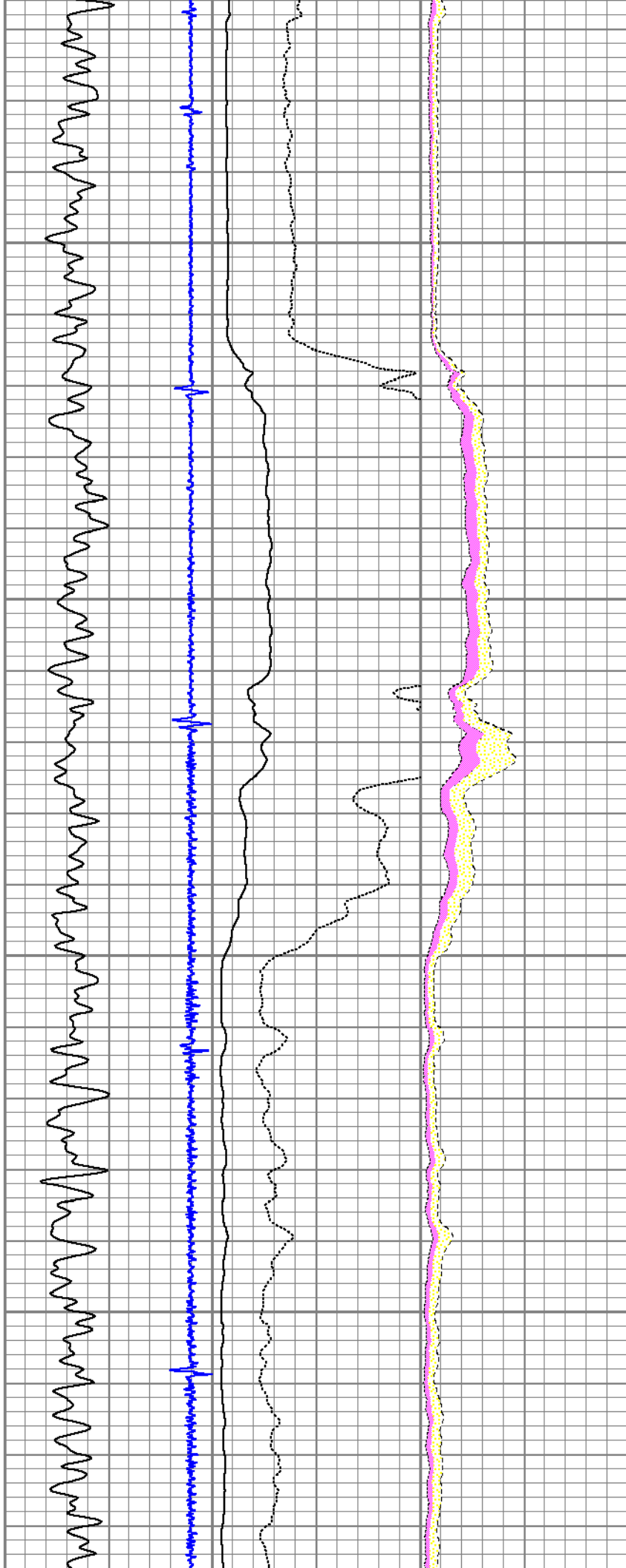
Top of Cement →

Top of Cement →

900

1000

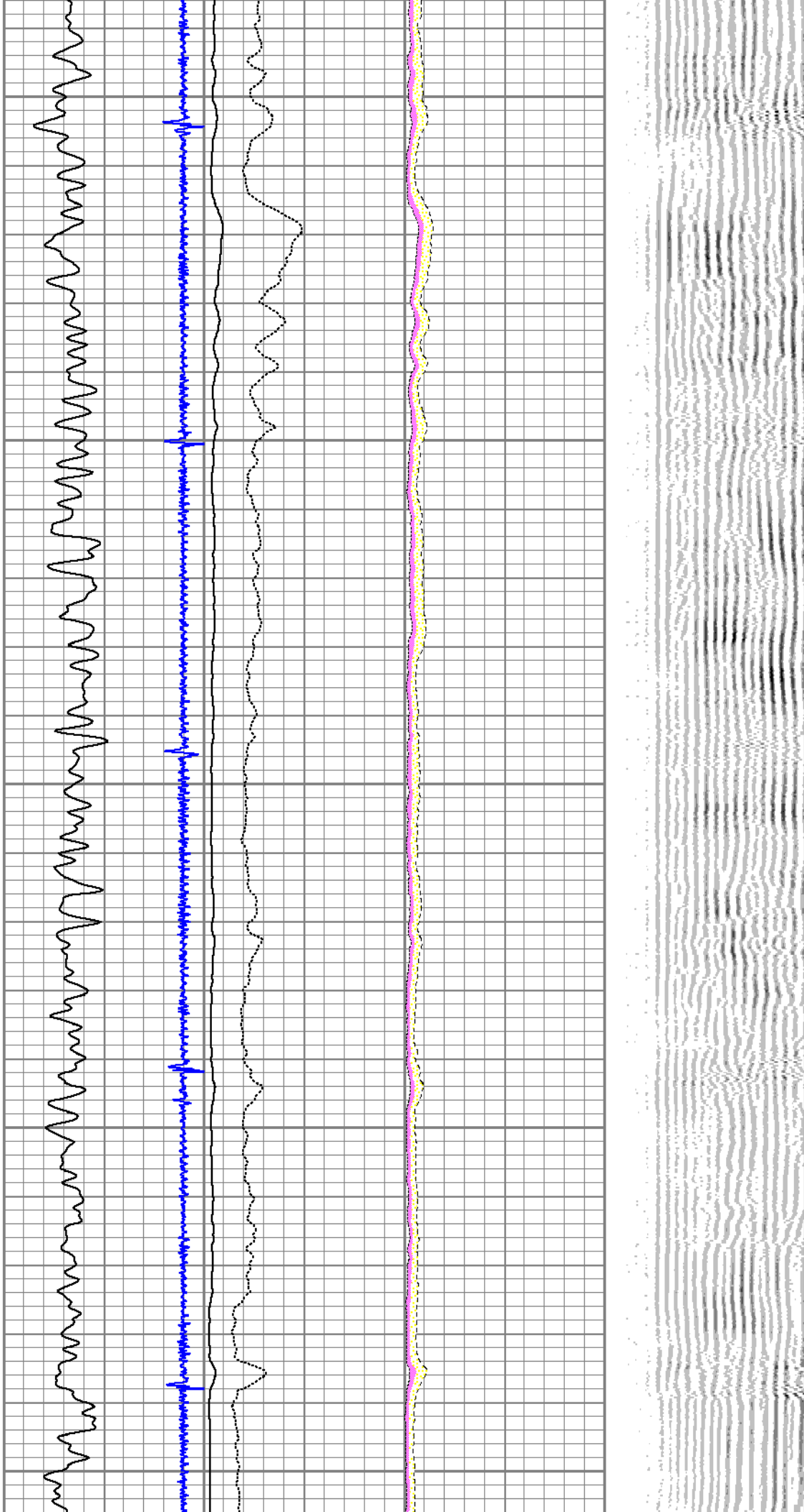




1300

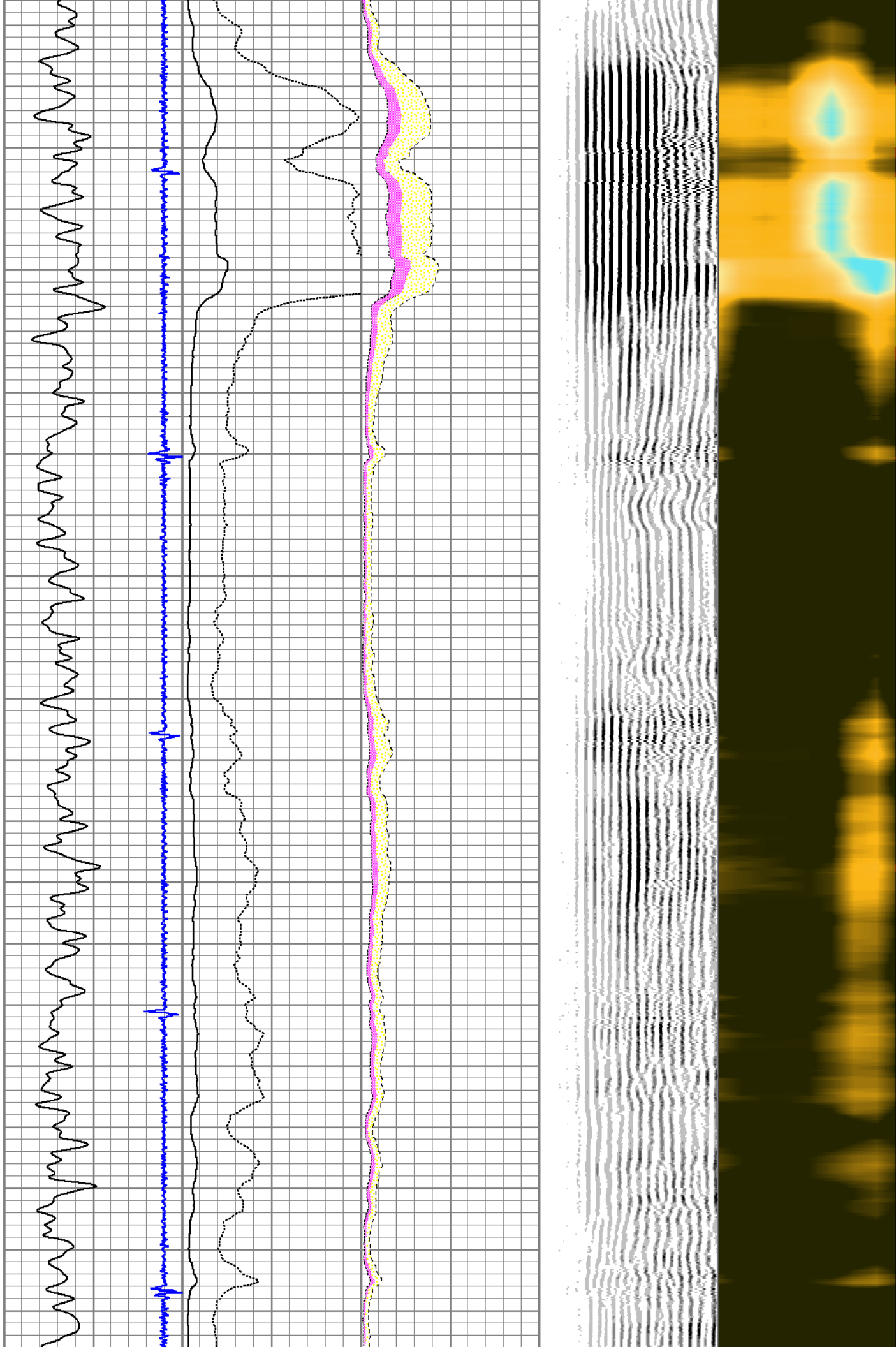
1400

1500



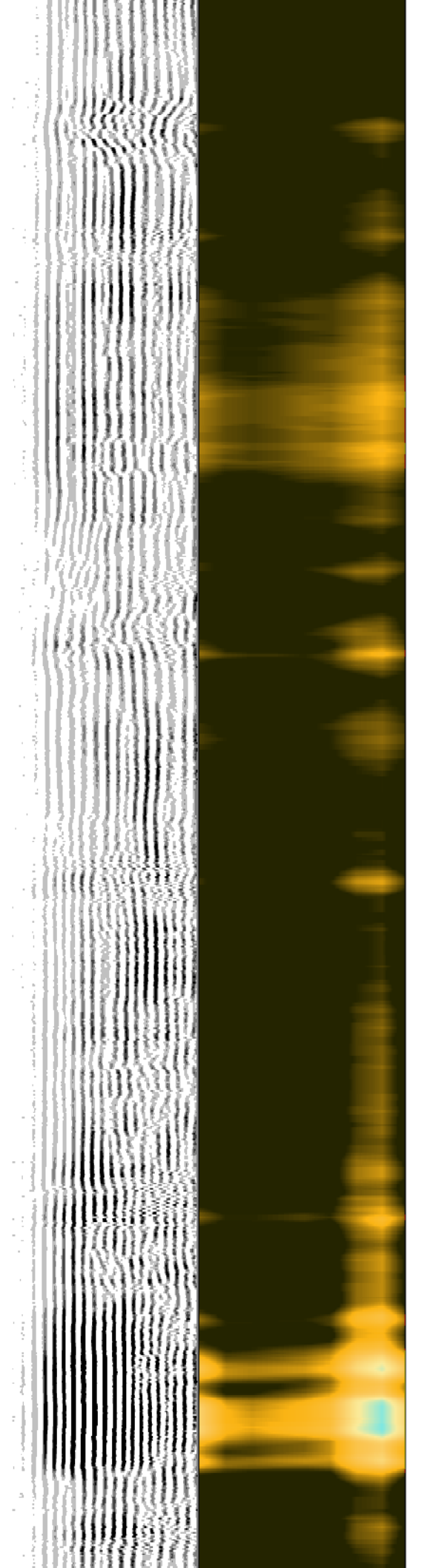
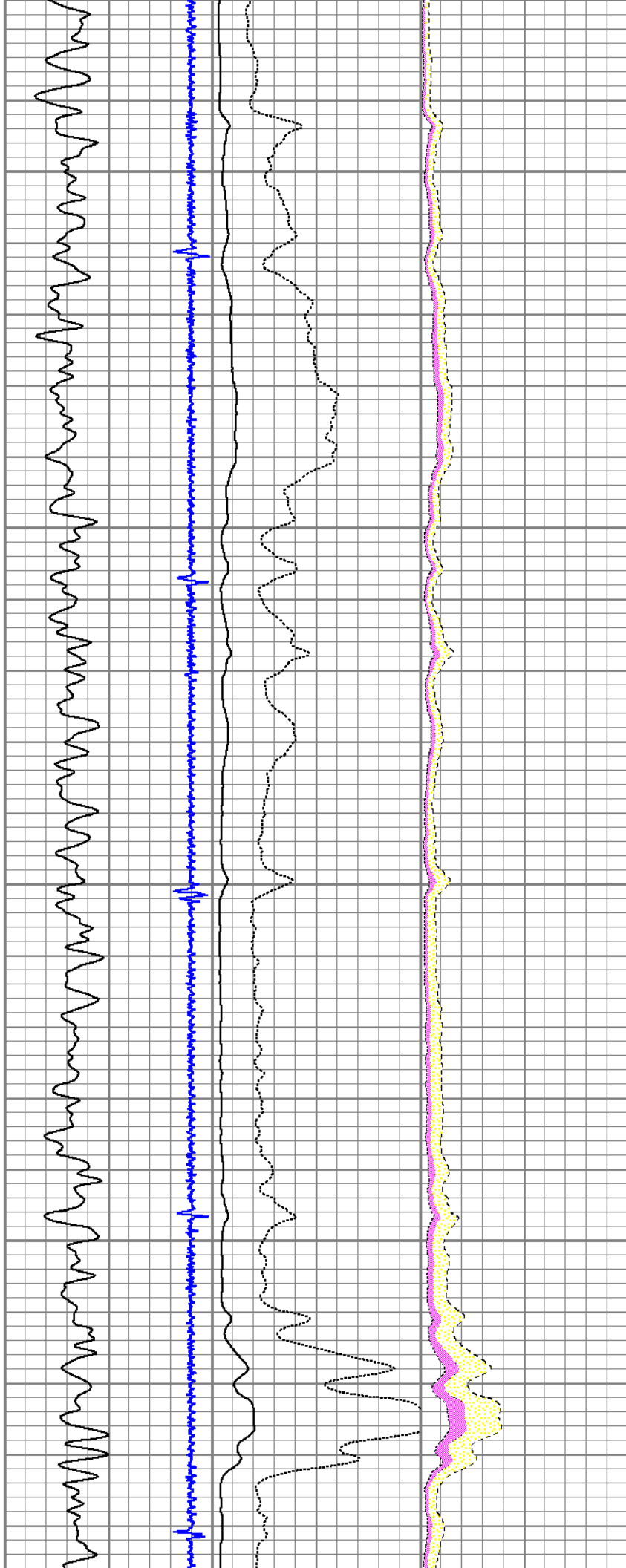
1600

1700



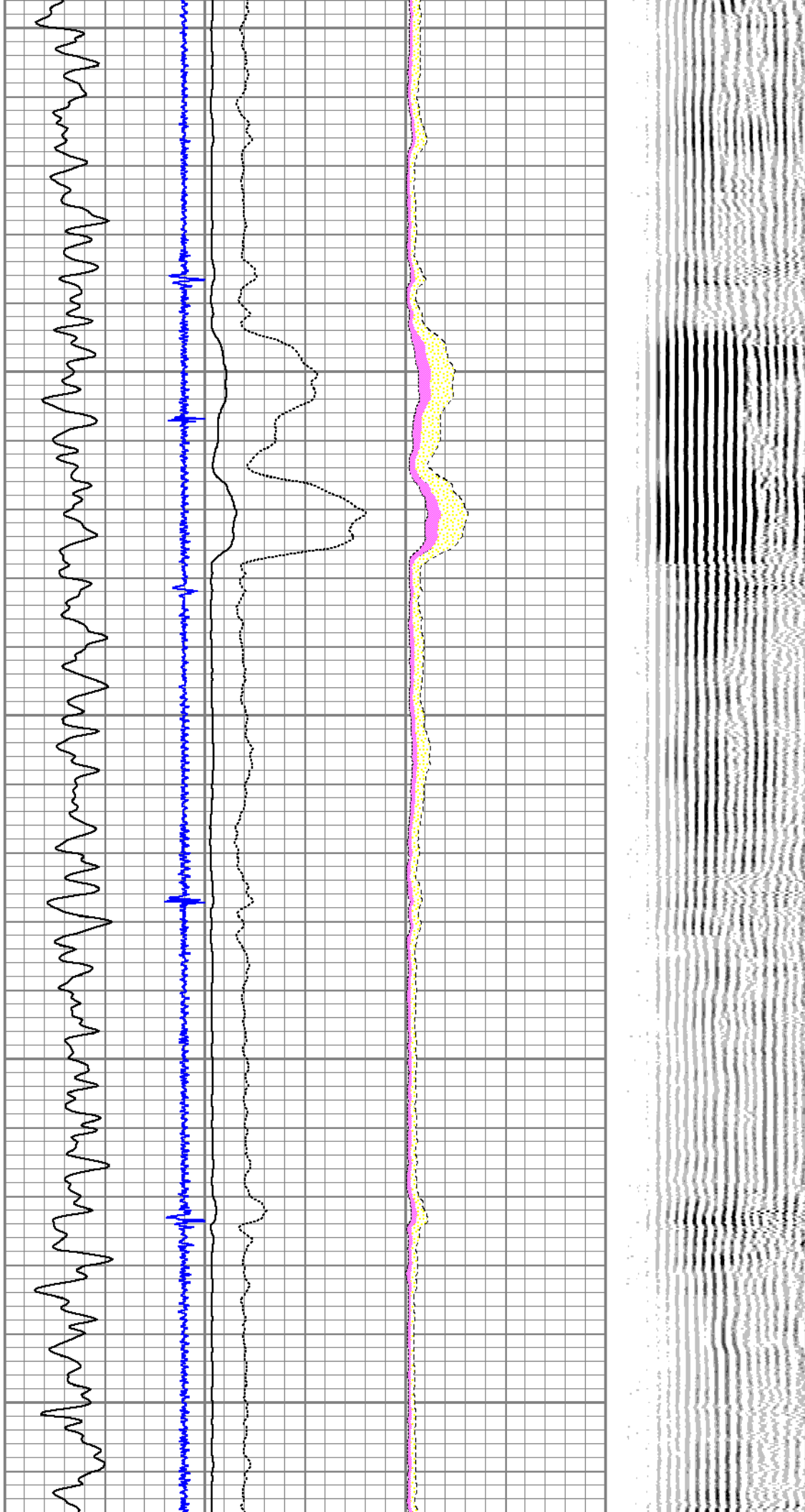
1800

1900



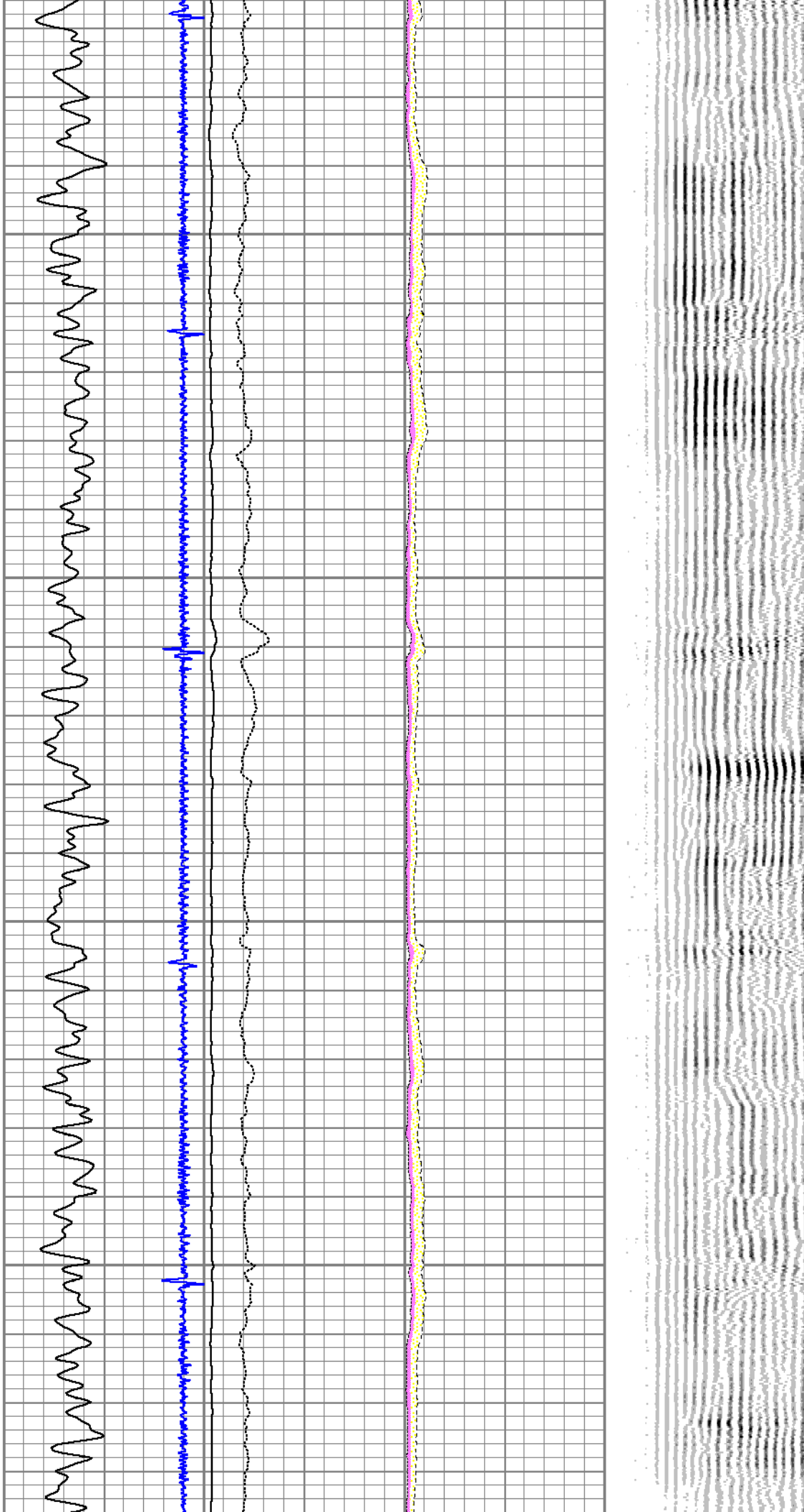
2000

2100



2200

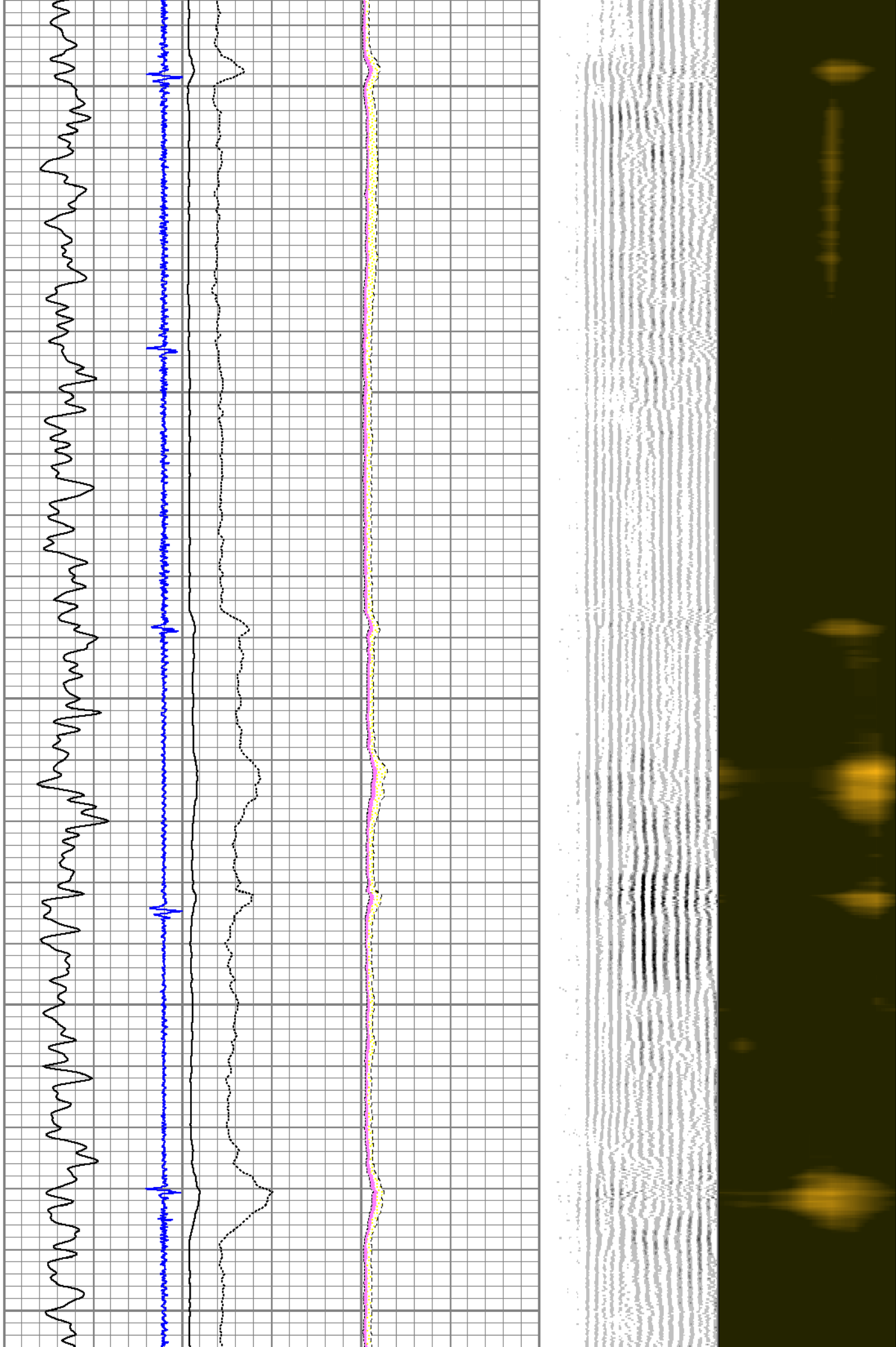
2300



2400

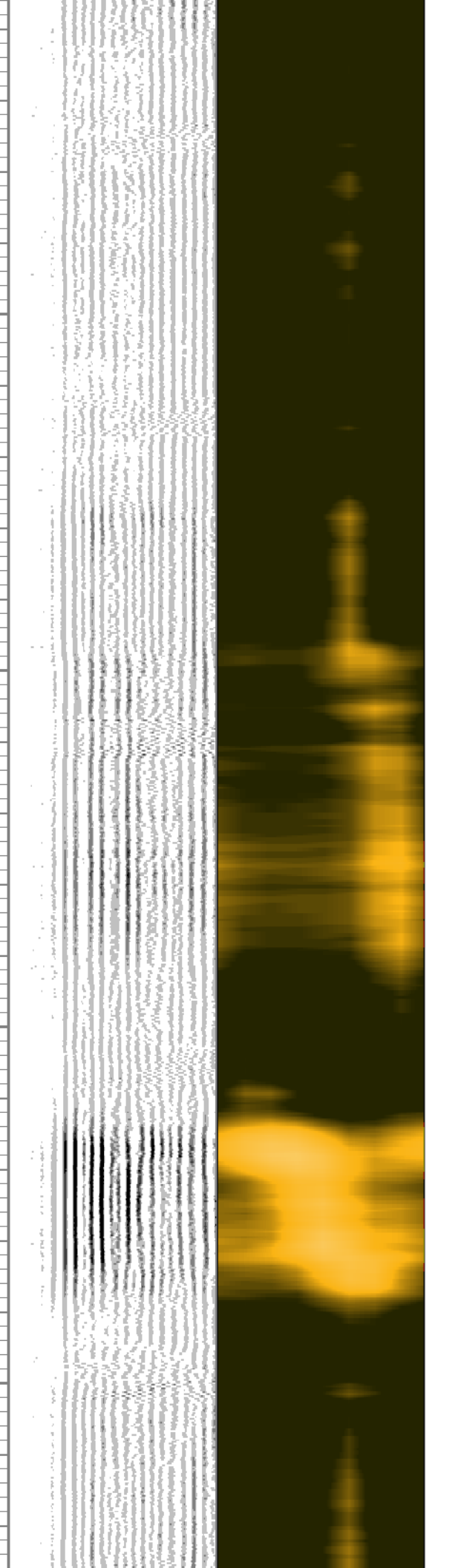
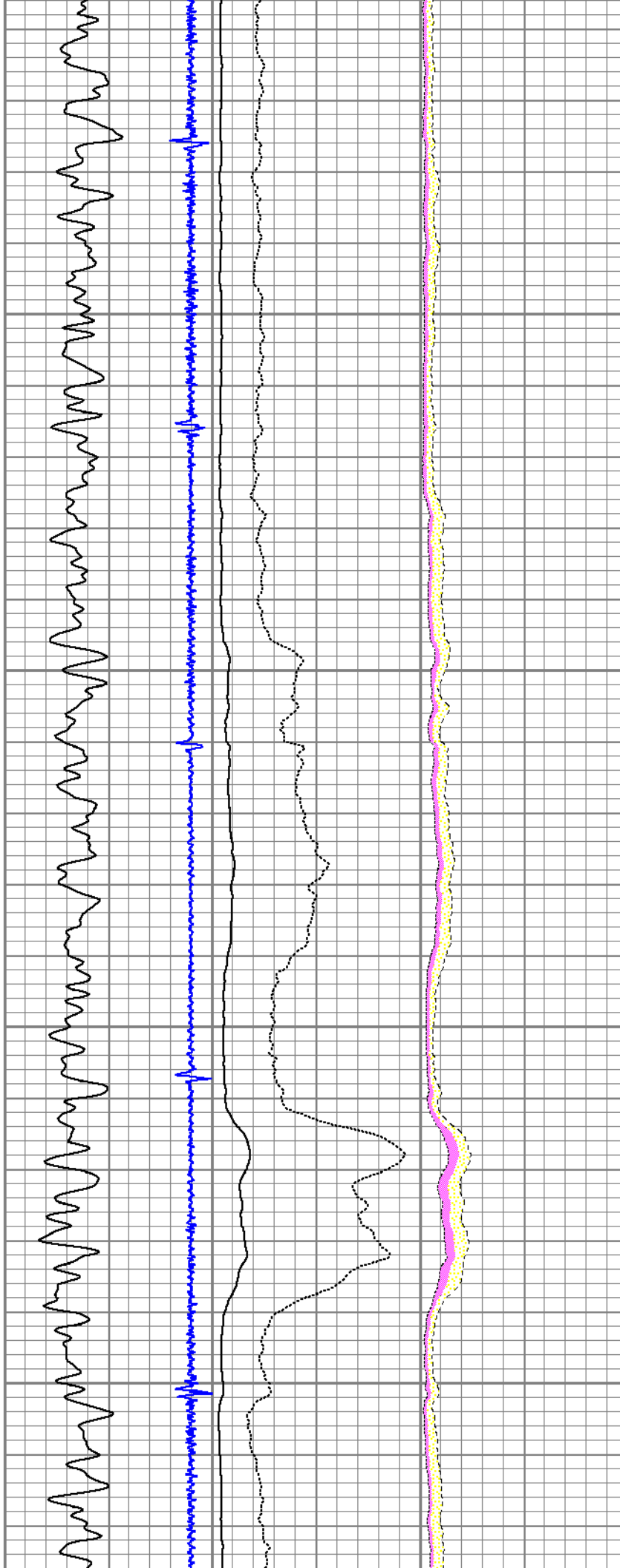
2500

2600



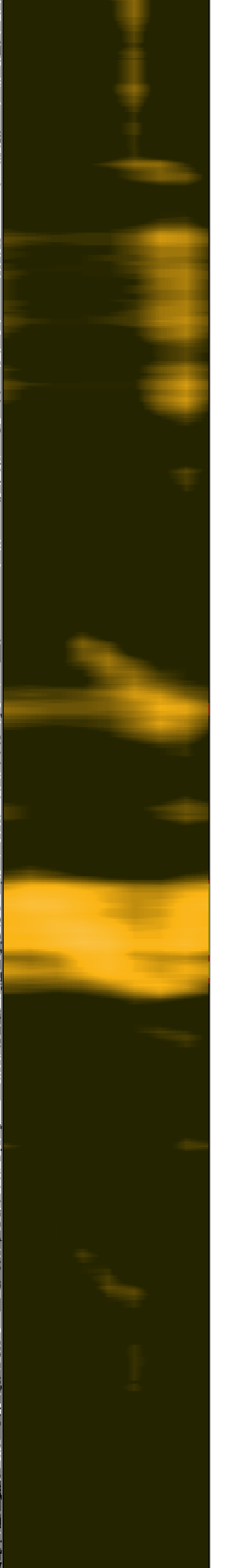
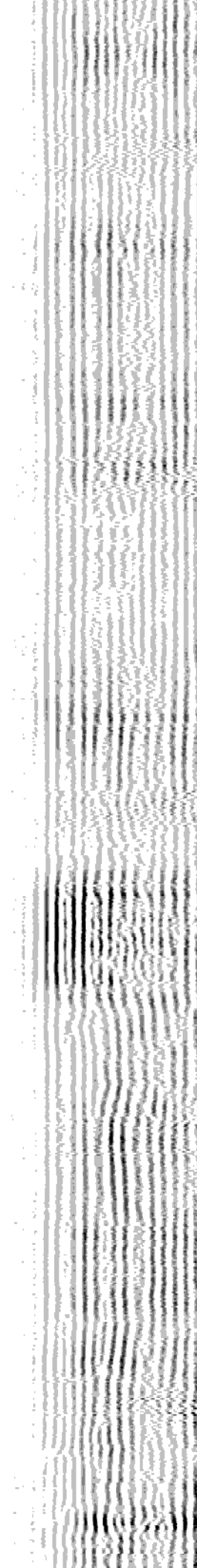
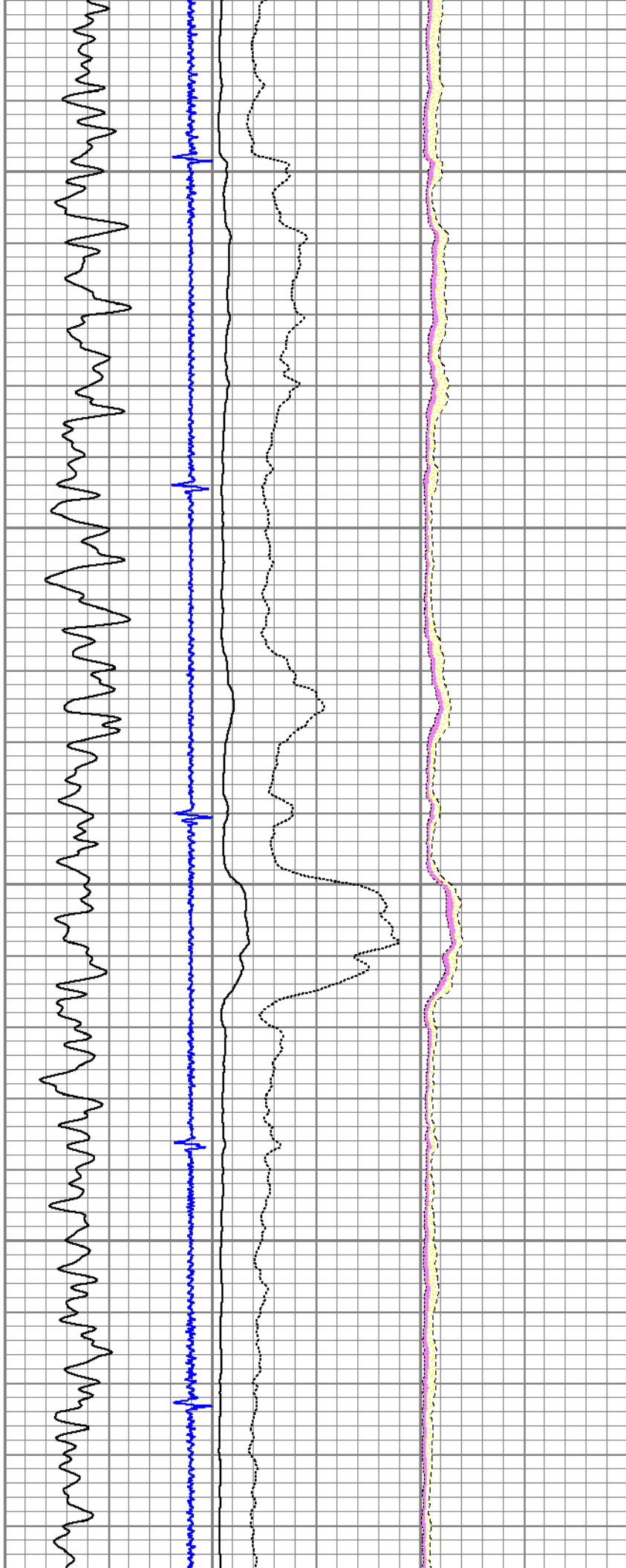
2700

2800



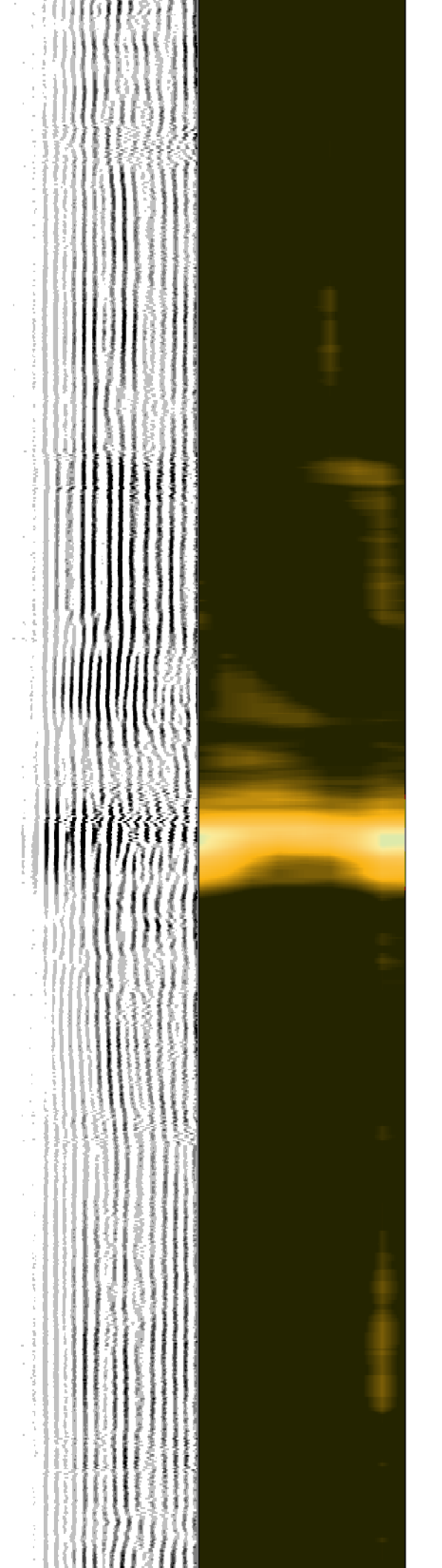
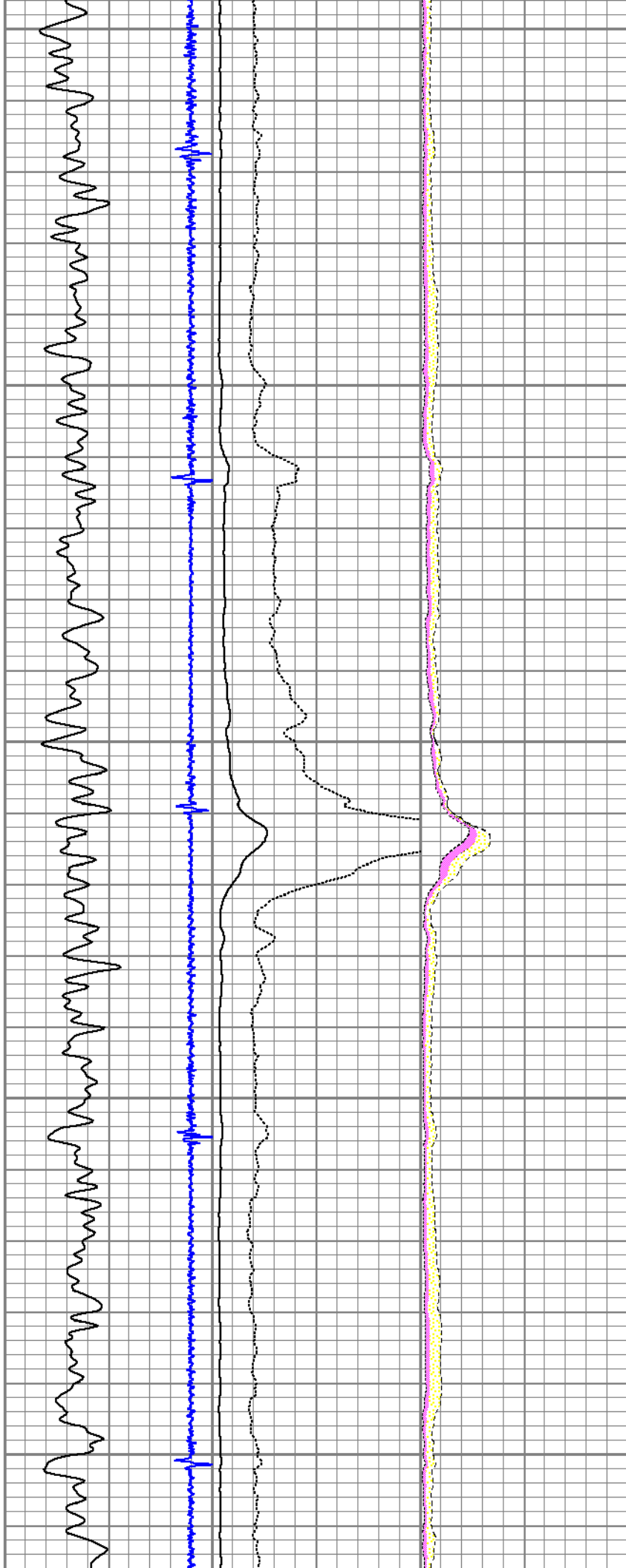
2900

3000



3100

3200

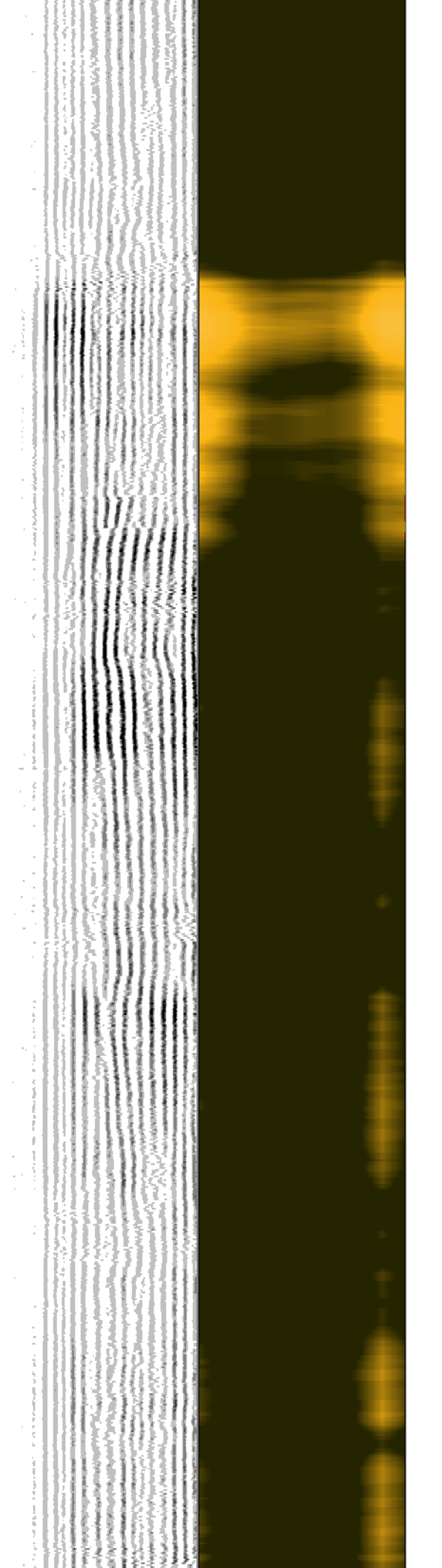


3400

3500

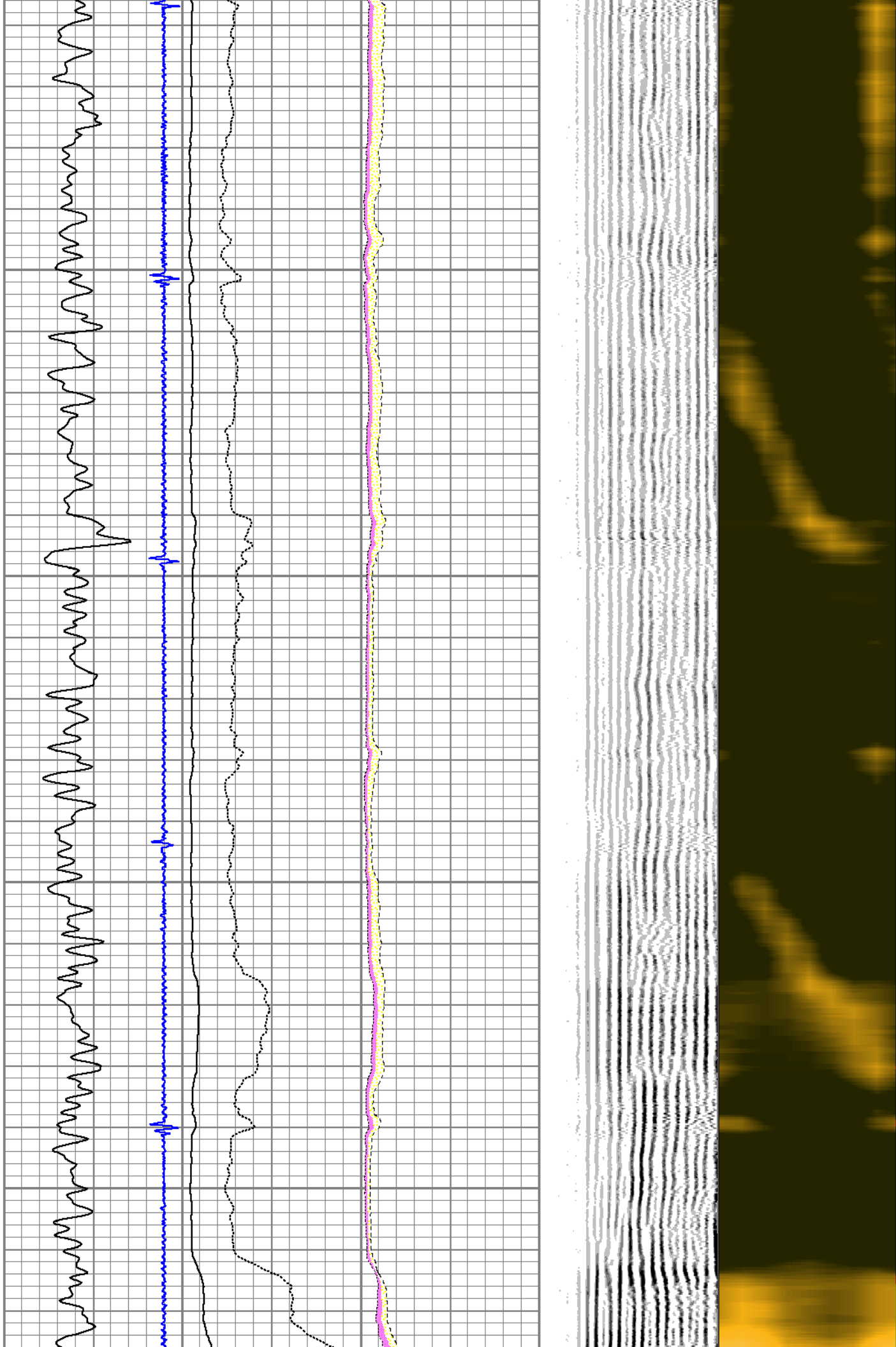
3600

3700



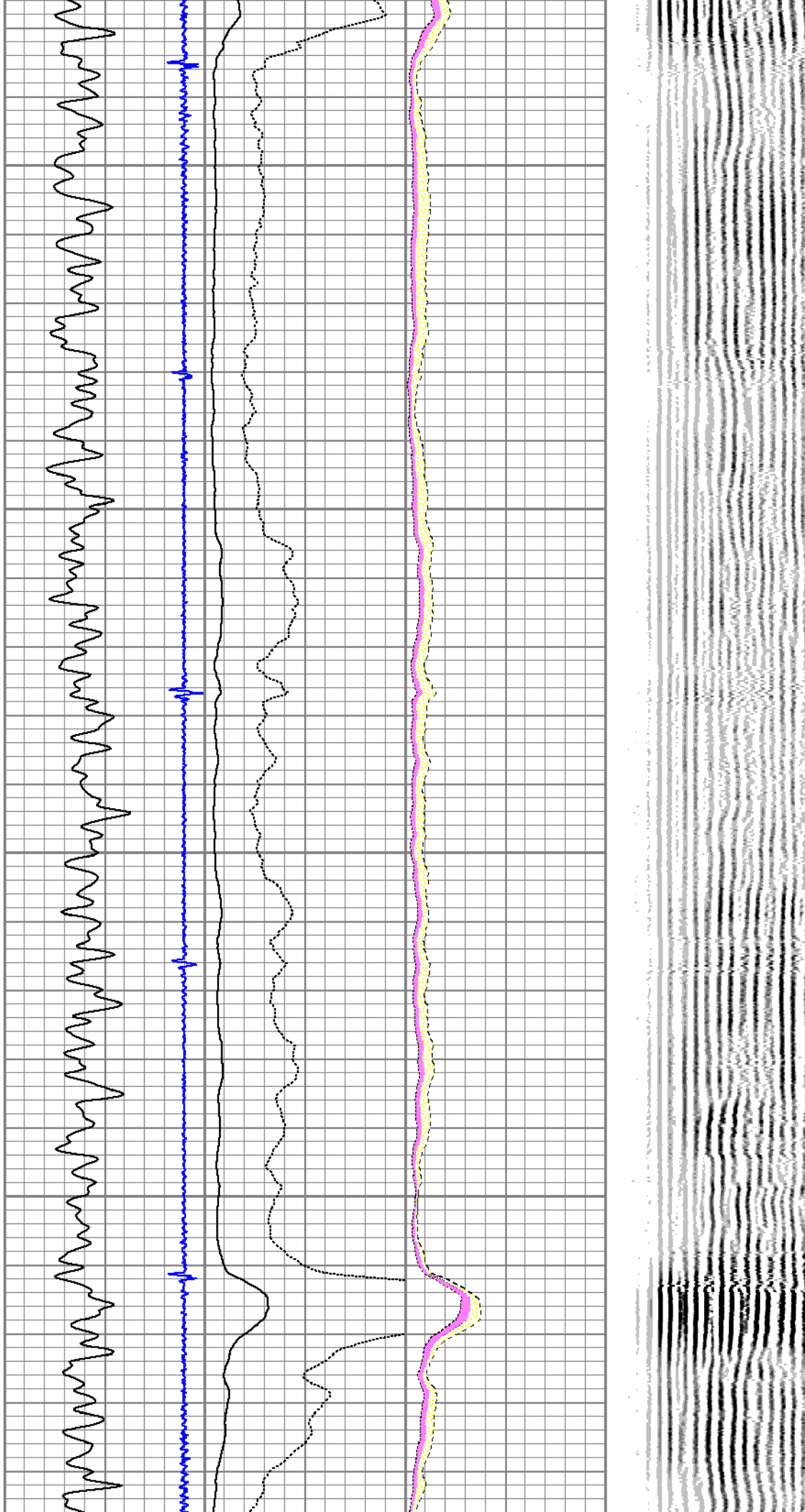
3800

3900



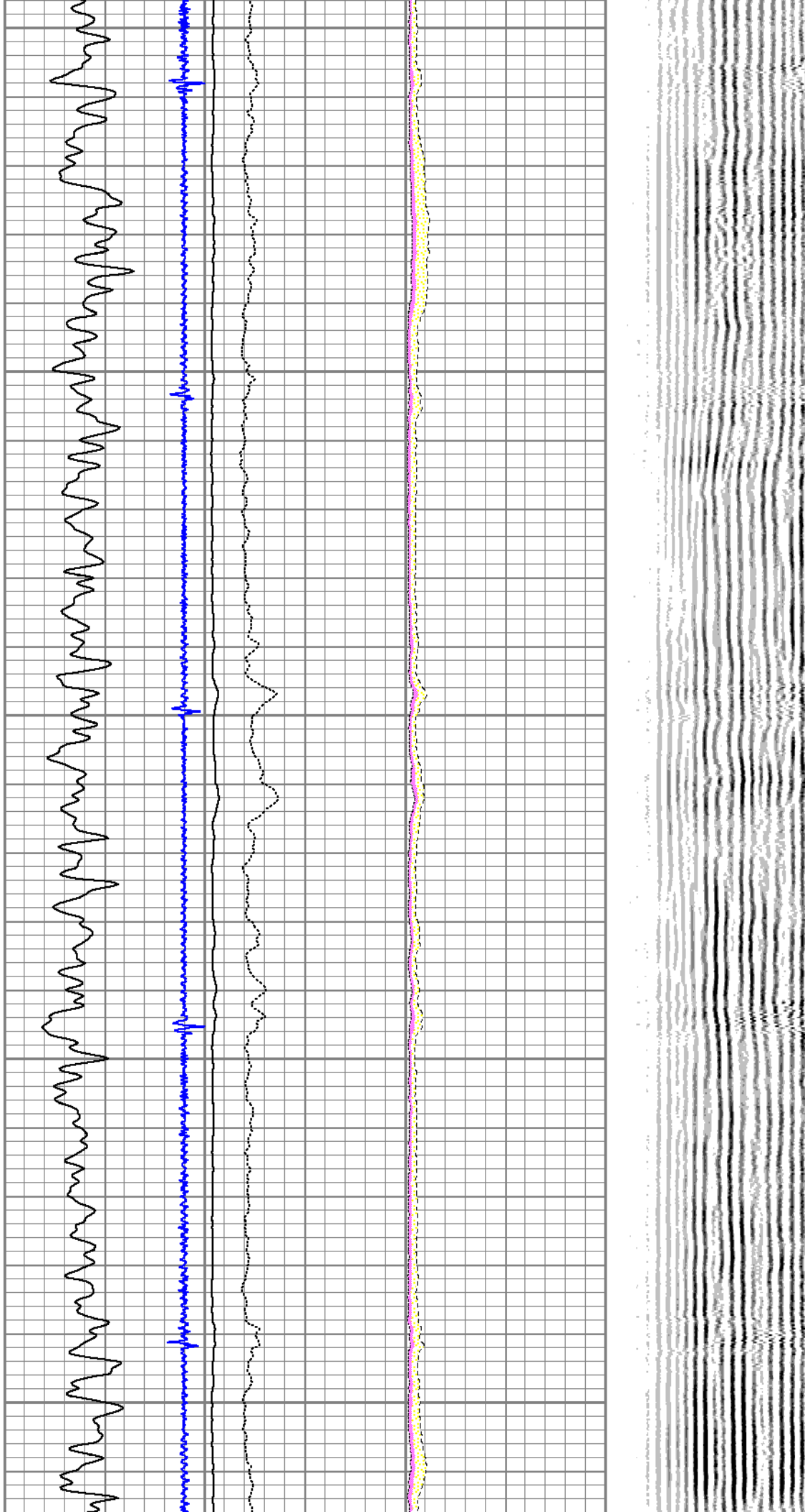
4000

4100



4200

4300

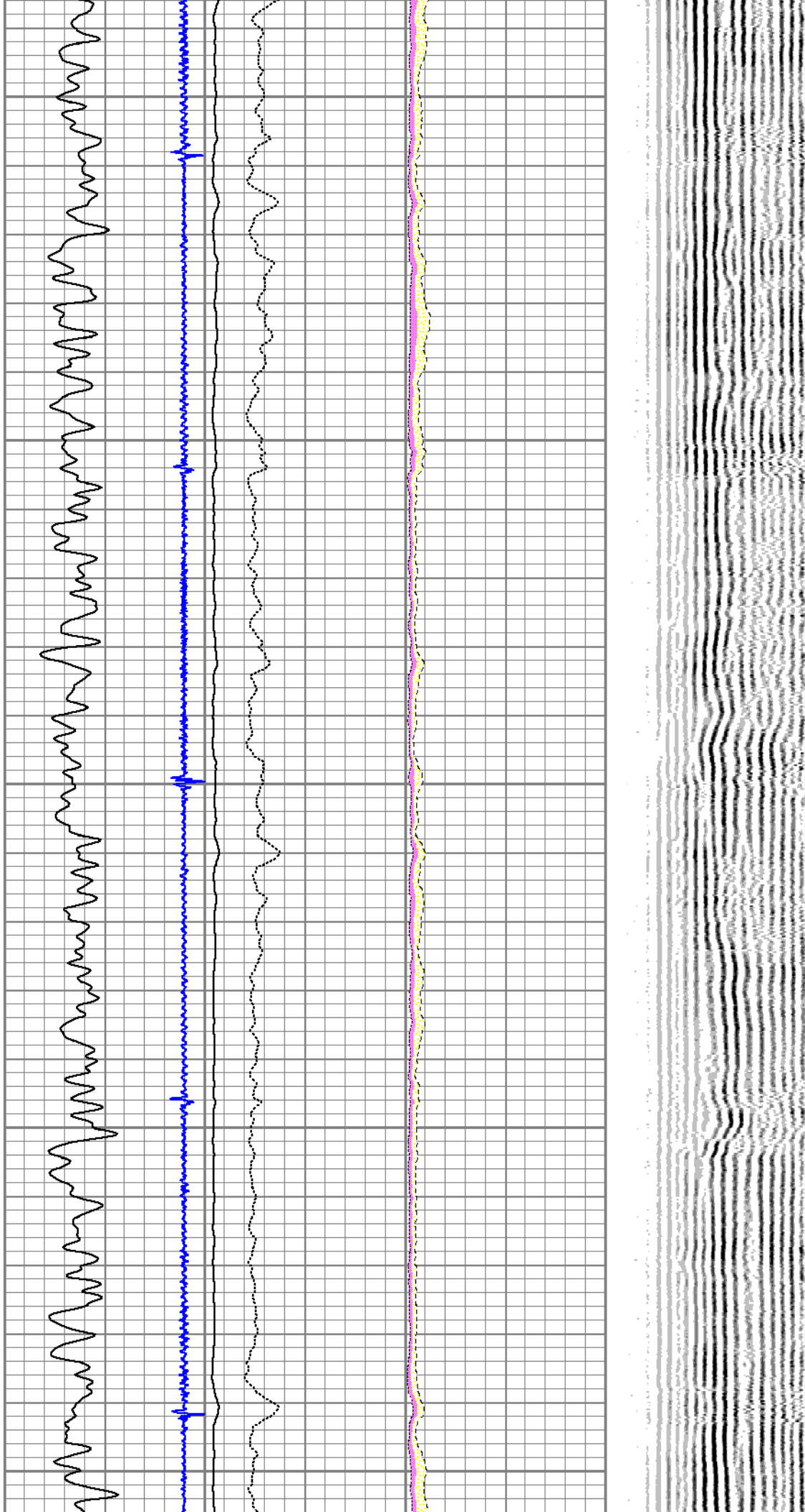


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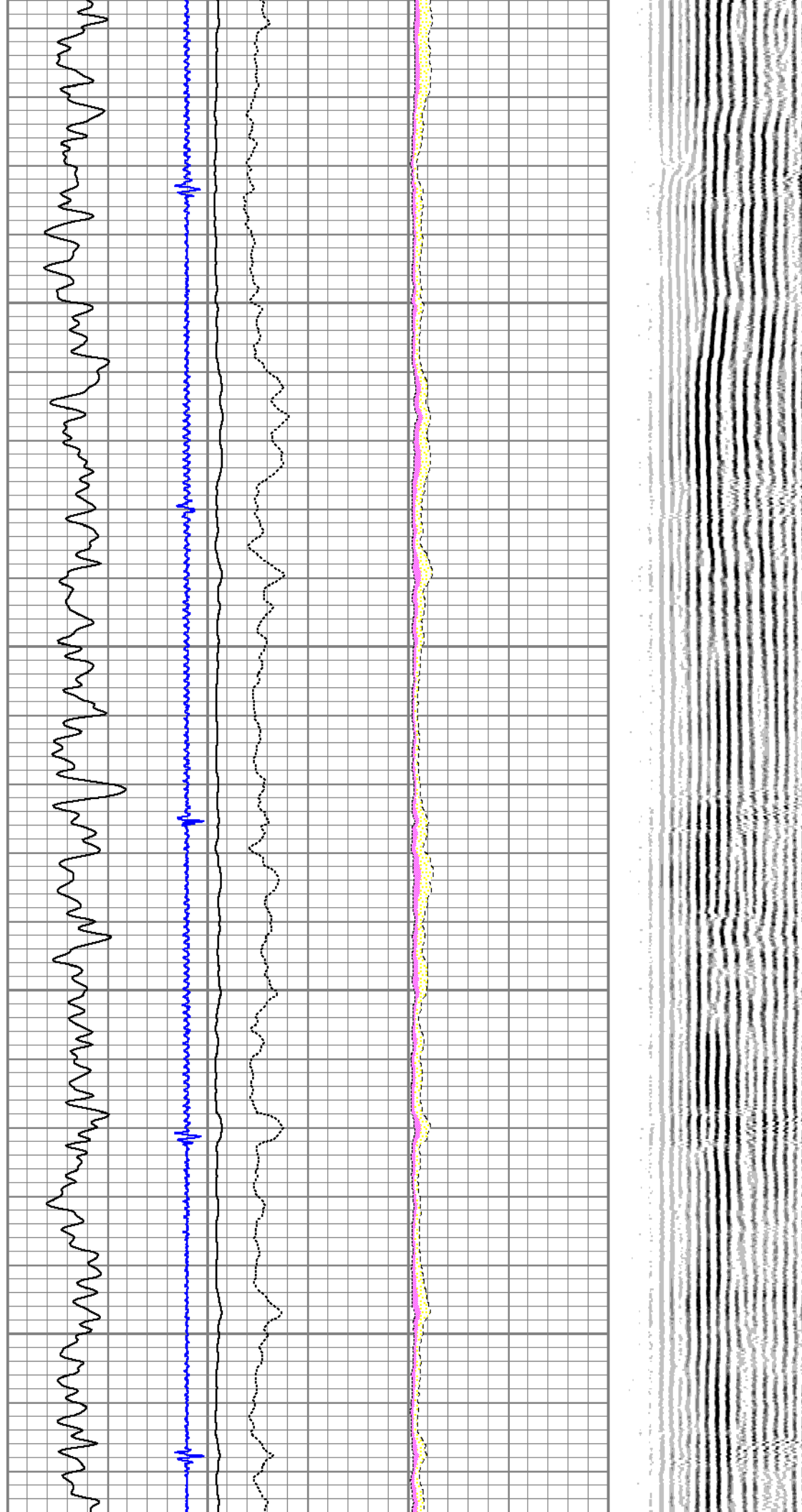
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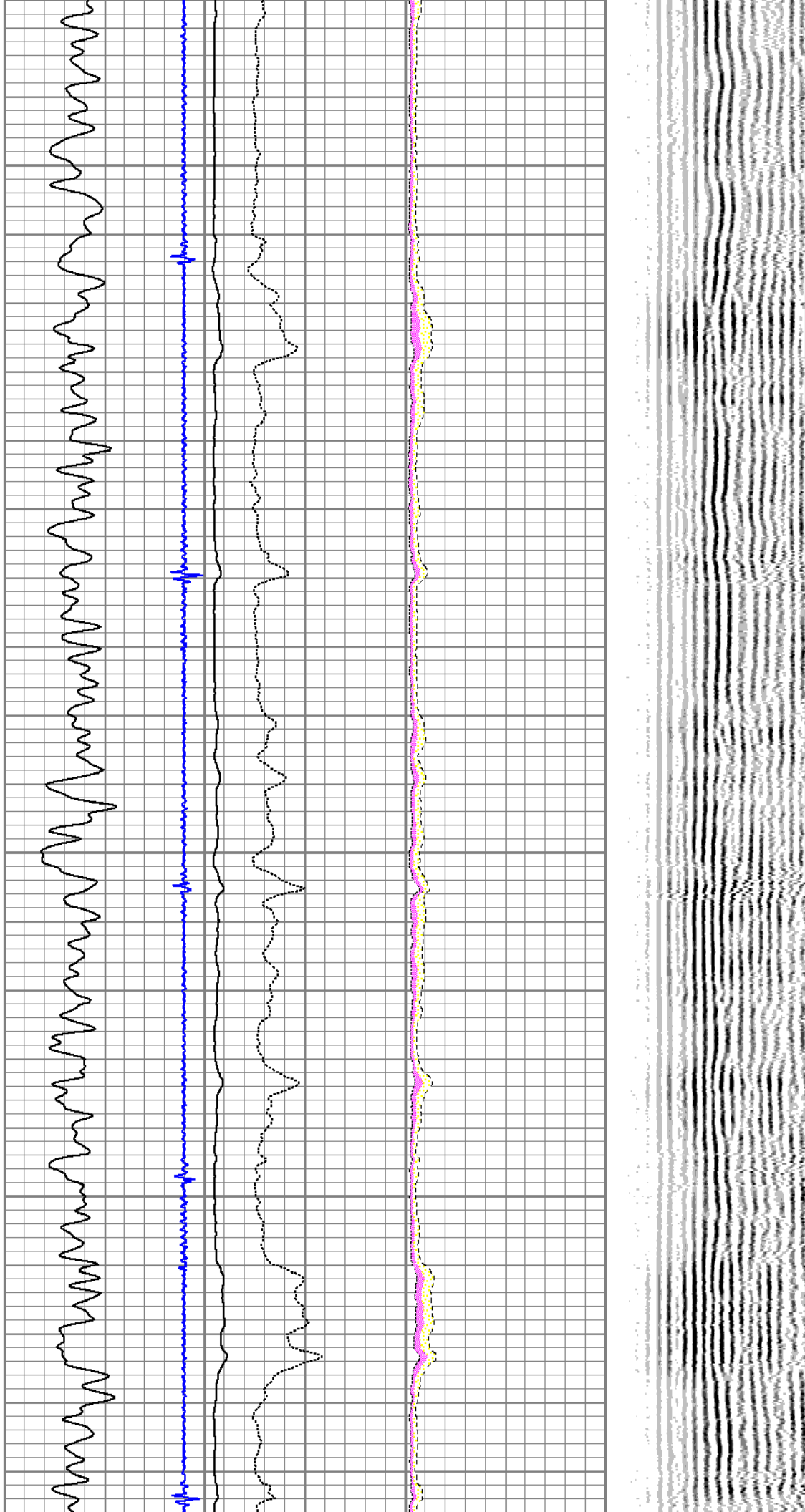
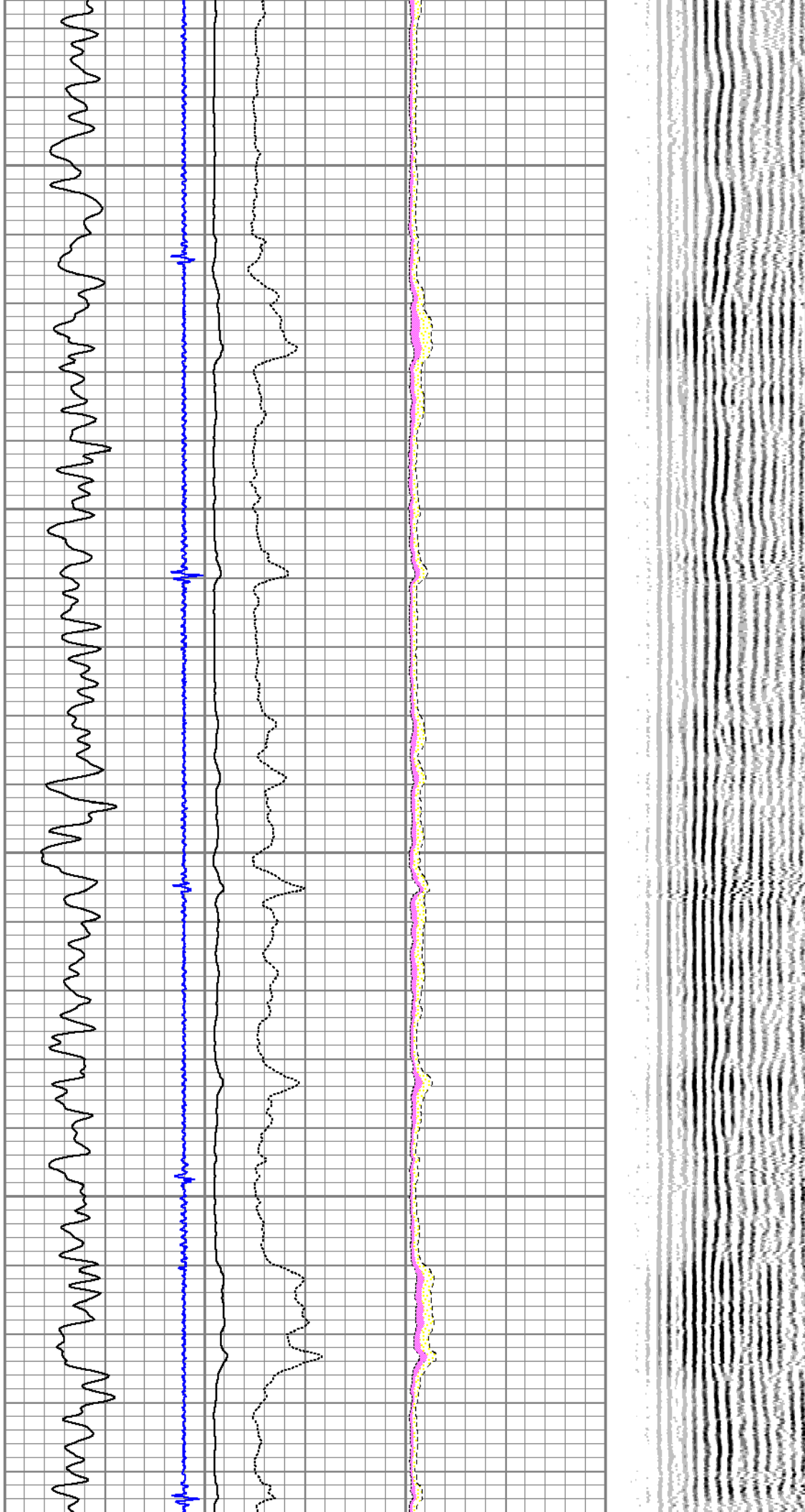
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4800



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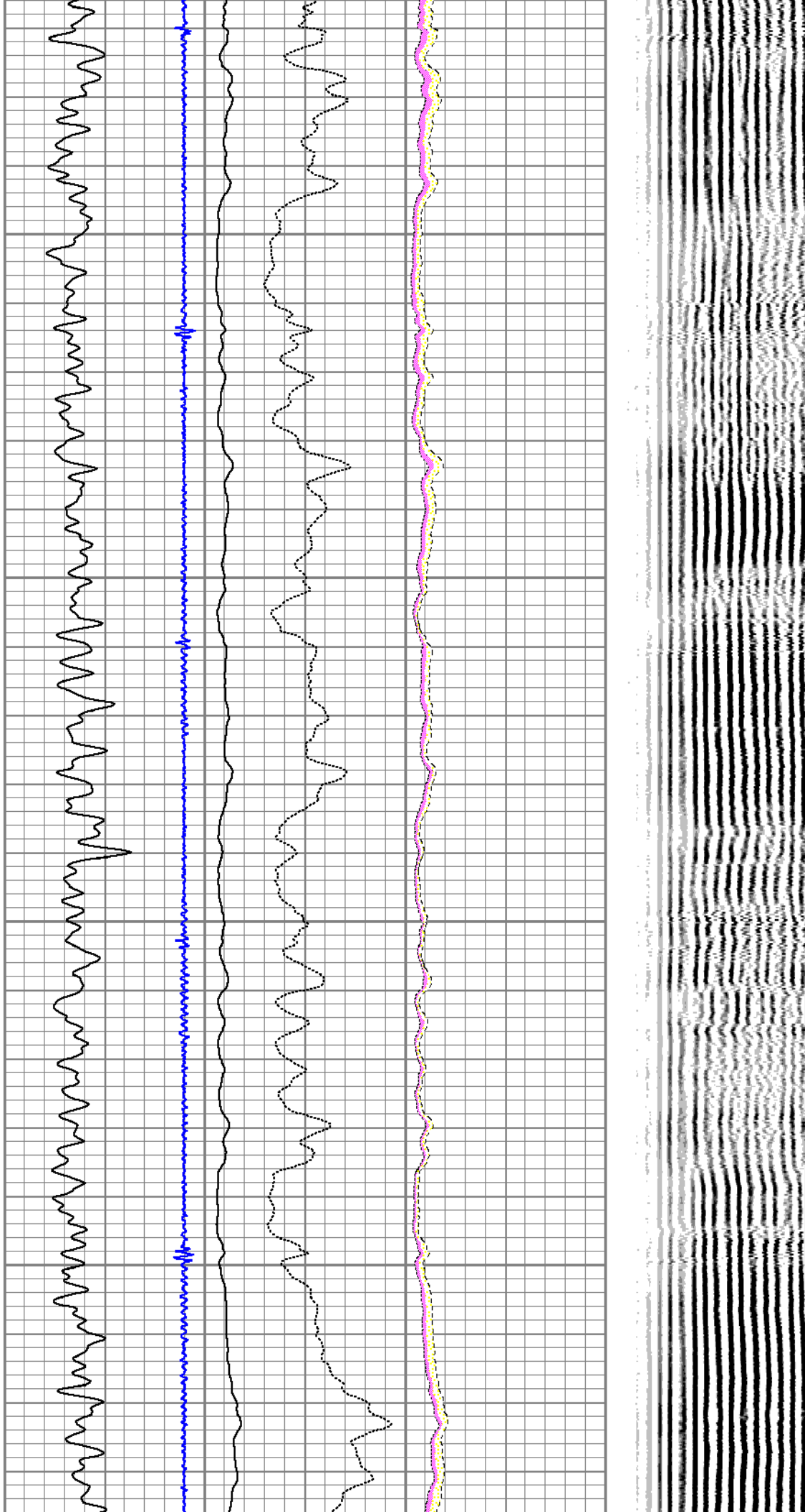




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5500

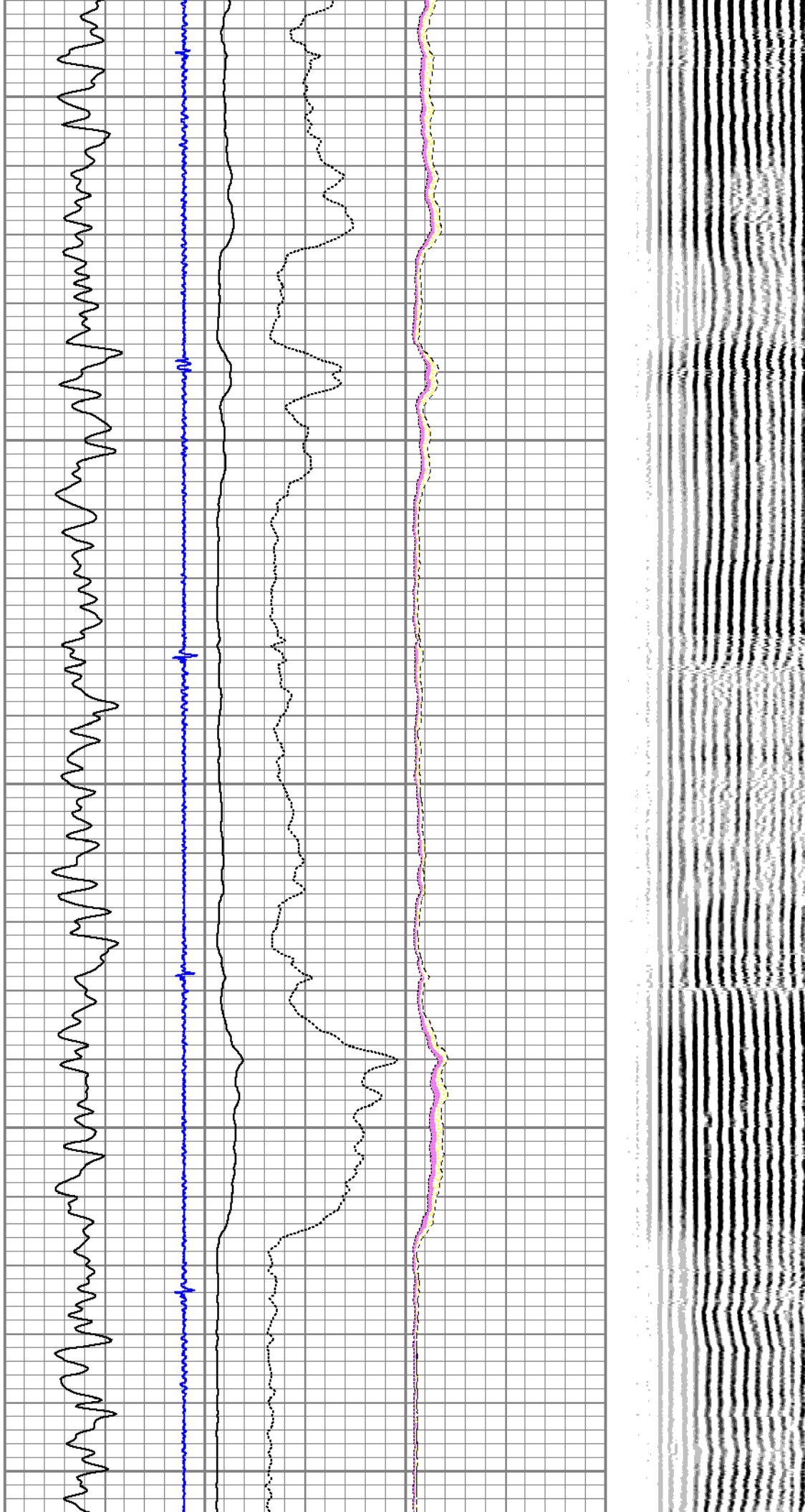
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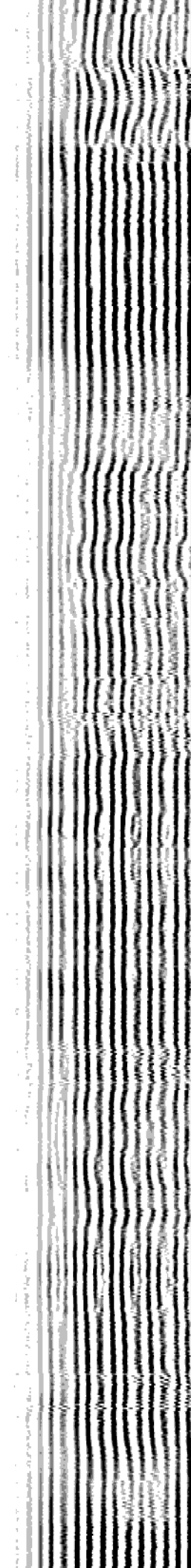


5700

5800

5900





6000

6100

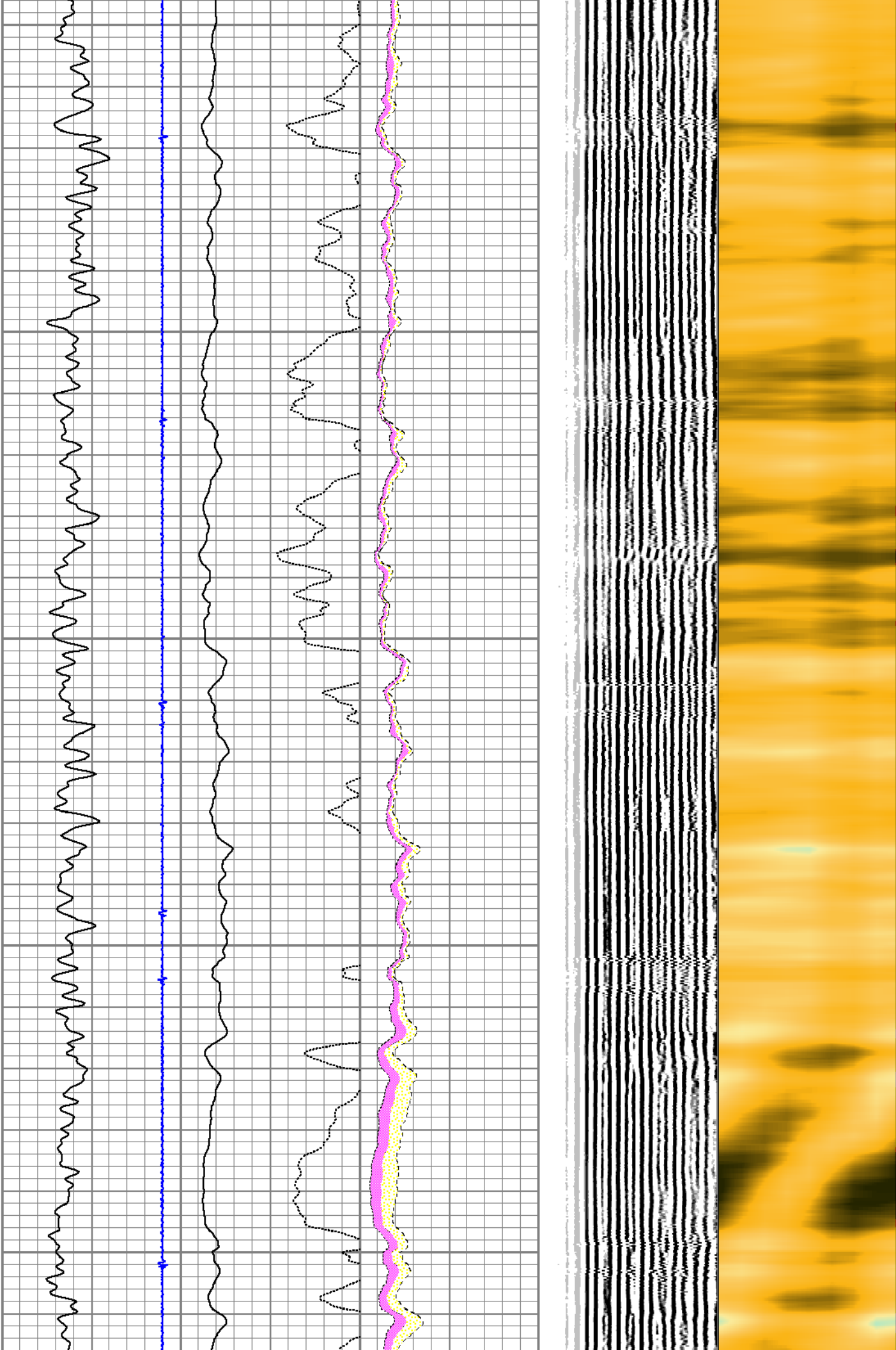
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6300



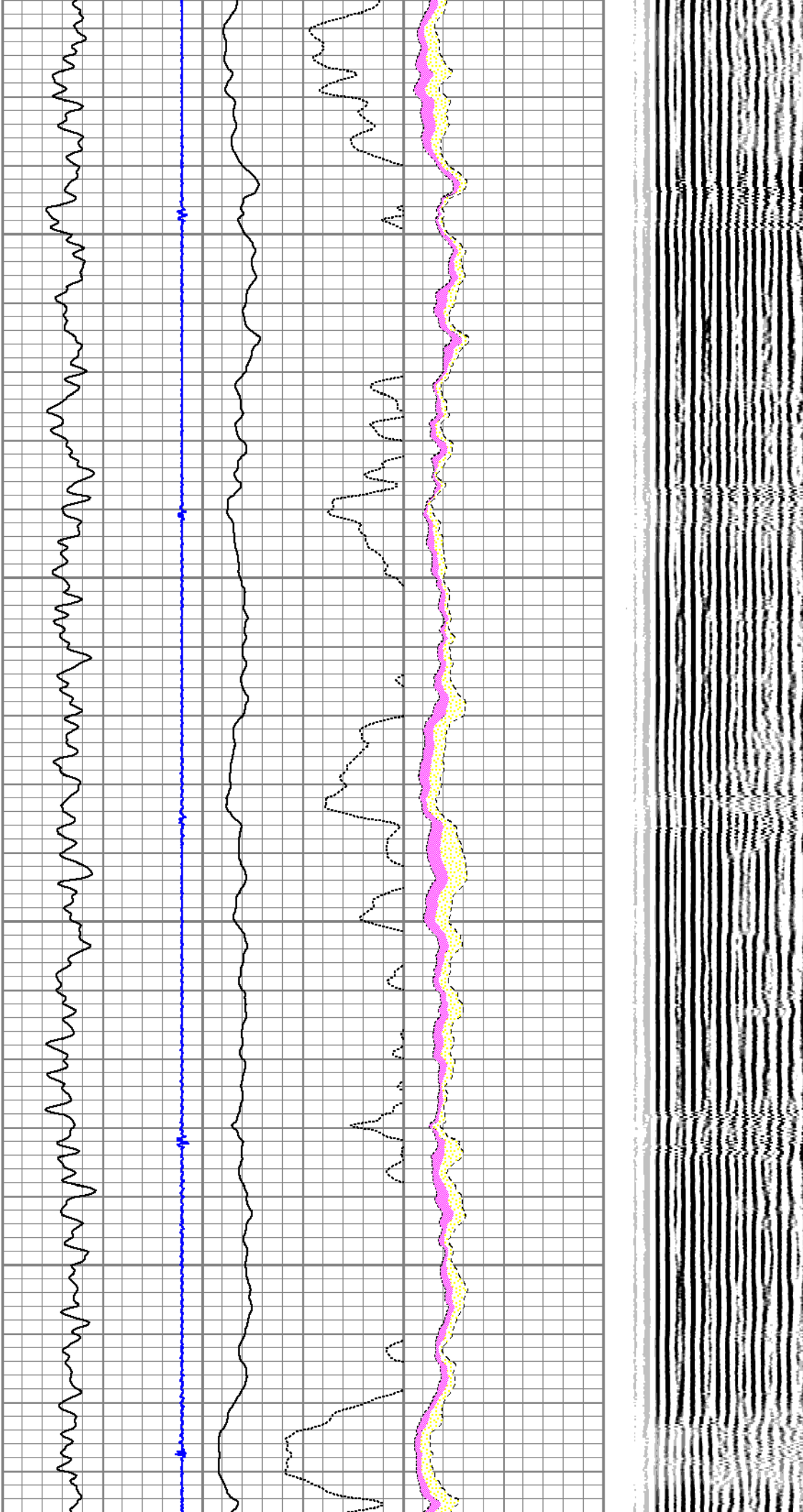
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6600

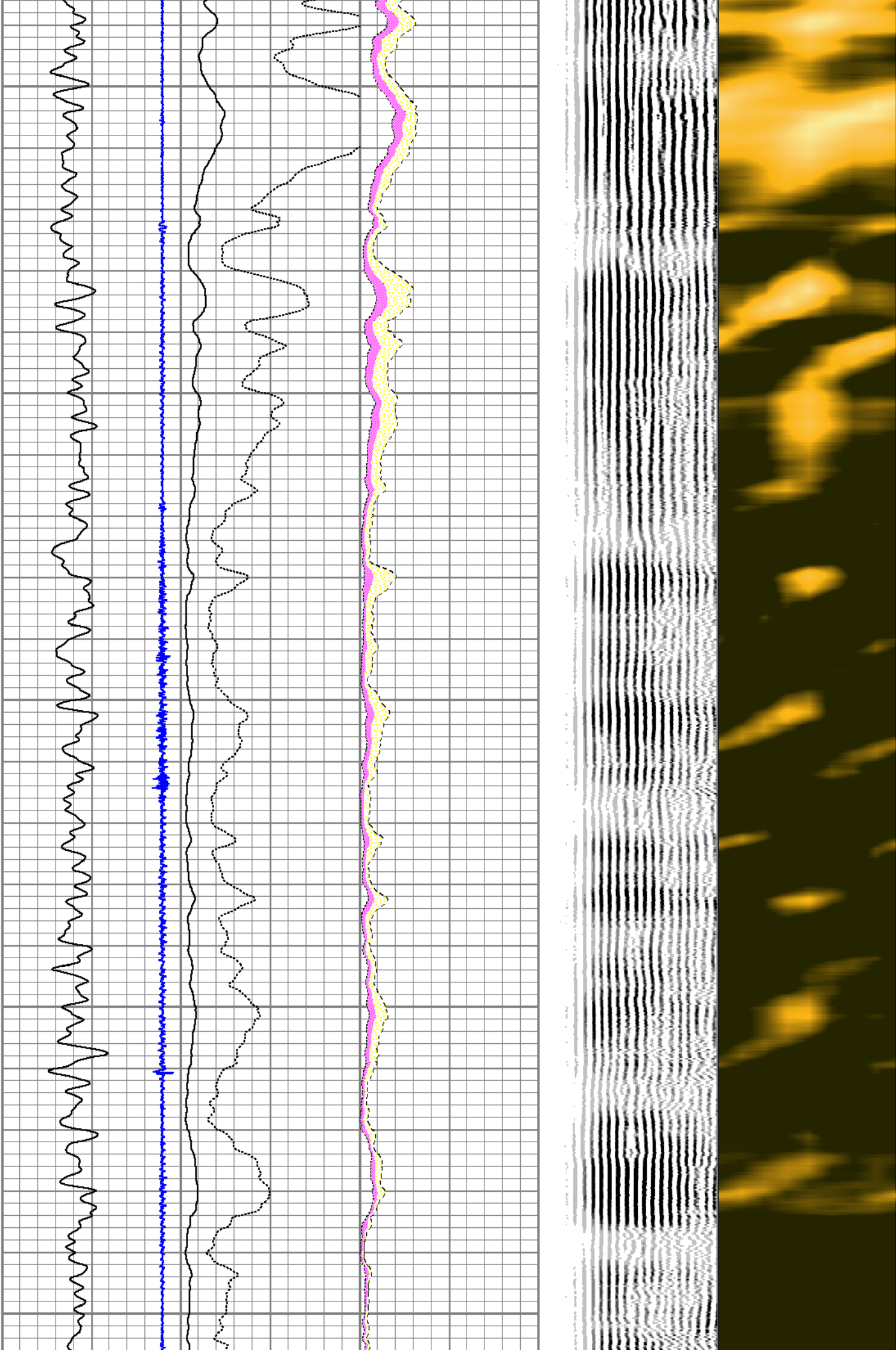
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6800

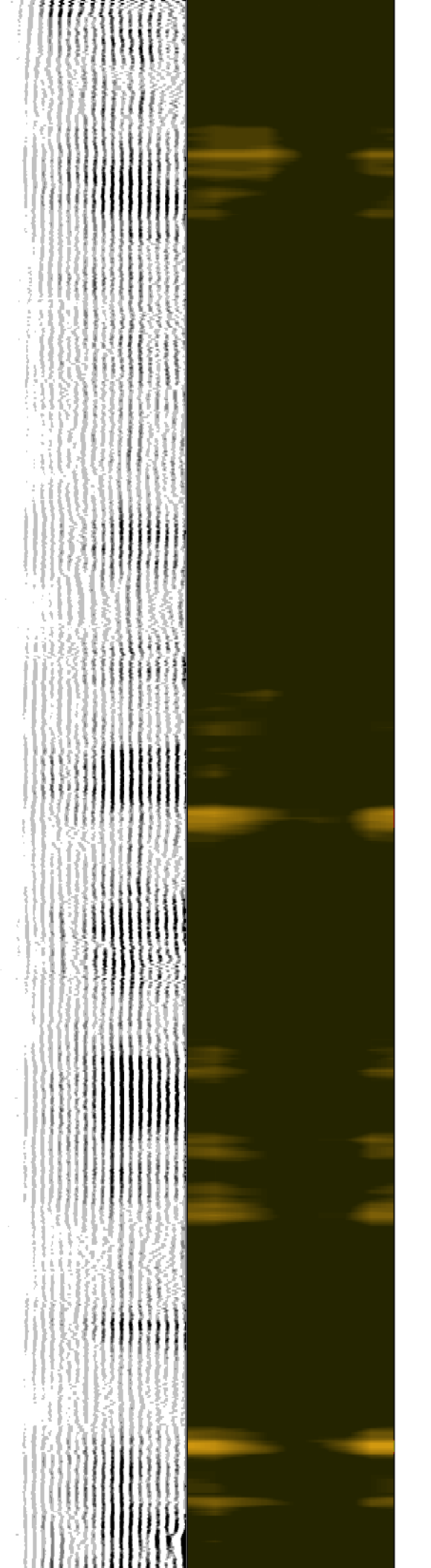
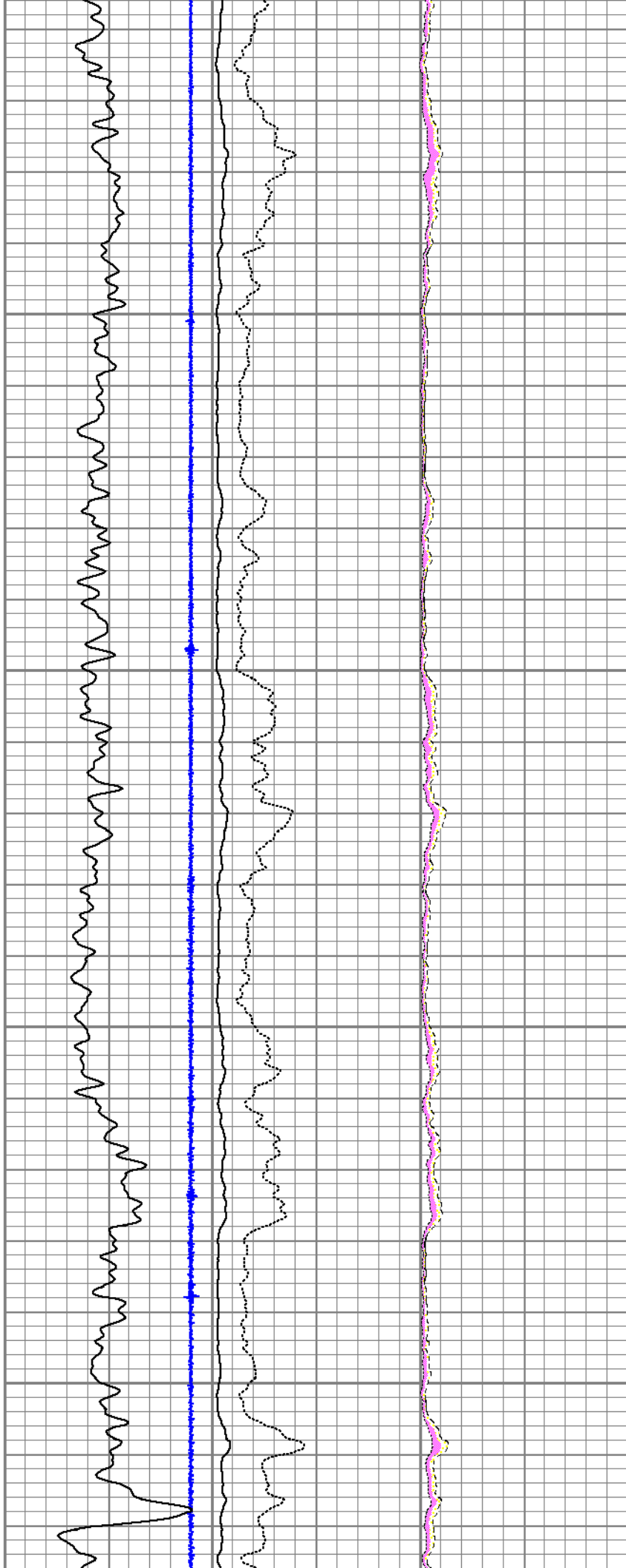
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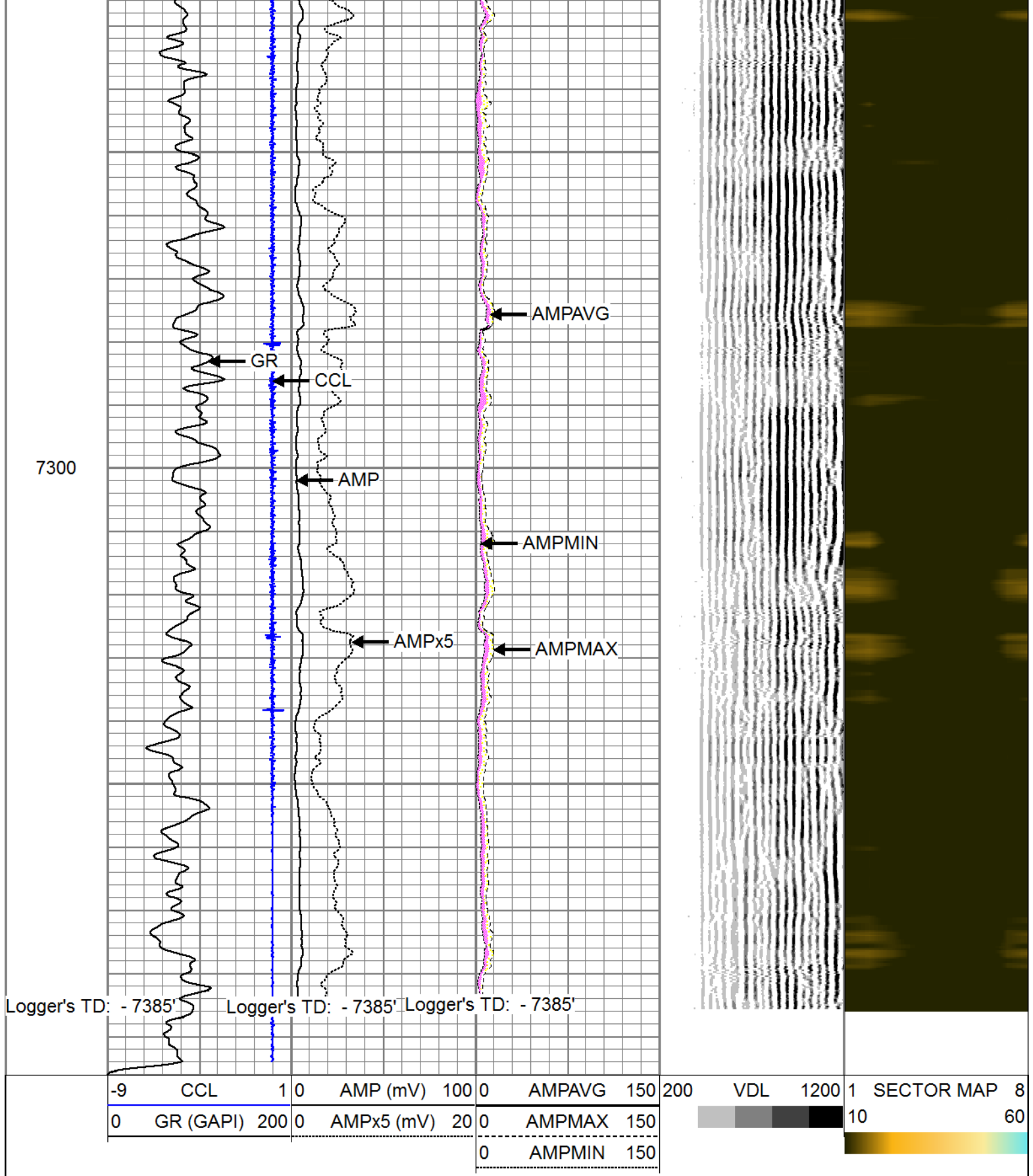
7000



7100

7200





Calibration Report

Database File: 13700.db
 Dataset Pathname: pass2
 Dataset Creation: Sun Oct 26 08:59:43 2014 by Log 0

Gamma Ray Calibration Report

Serial Number: 51013

Tool Model:	probe 2.75	
Performed:	Thu Oct 23 02:18:02 2014	
Calibrator Value:	1400.0	GAPI
Background Reading:	26.8	cps
Calibrator Reading:	1120.0	cps
Sensitivity:	1.0000	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	130584	
Tool Model:	RBT-C3	
Calibration Casing Diameter:	7.000	in
Calibration Depth:	145.996	ft

Master Calibration, performed Fri Oct 24 09:05:01 2014:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.012	0.378	1.500	62.165	69.000	-0.570
CAL	0.012	1.029				
5'	0.012	0.239	1.500	62.165	70.000	-1.811
SUM						
S1	0.010	0.384	0.000	100.000	102.000	-2.698
S2	0.012	0.425	0.000	100.000	101.000	-3.023
S3	0.012	0.441	0.000	100.000	102.500	-2.894
S4	0.012	0.420	0.000	100.000	103.000	-3.034
S5	0.012	0.378	0.000	100.000	104.000	-3.372
S6	0.010	0.352	0.000	100.000	105.000	-2.925
S7	0.012	0.346	0.000	100.000	102.000	-3.679
S8	0.012	0.362	0.000	100.000	103.000	-3.547

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	0.012	1.029	1.000	0.000

Air Zero Calibration, performed Mon Sep 08 11:38:23 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

Temperature Calibration Report

Serial Number: 130584
 Tool Model: RBT-C3
 Performed: Wed Aug 13 16:18:33 2014

	Reference	Reading
Low Reference:	0.00 degF	0.00 degF
High Reference:	1.00 degF	1.00 degF
Gain:	0.77	
Offset:	15.00	
Delta Spacing	1	

Log Variables

Database: C:\Warrior\Data\13700.db
 Dataset: field/well/run1/pass2

Top - Bottom

PPT usec 0	CASEWGHT lb/ft 26	MAXAMPL mV 0	MINAMPL mV 1	MINATTN db/ft 0.8	CASEOD in 7	PERFS 0
TDEPTH ft 0	BOTTEMP degF 198	BOREID in 8.75				