



**RADIAL BOND, V.D.L.  
GAMMA-RAY & C.C.L.**

Pioneer Wireline Services

Company ANADARKO PETROLEUM

Well NRC 1N-4HZ  
Field WATTENBERG  
County WELD State CO

Company **ANADARKO PETROLEUM**  
Well **NRC 1N-4HZ**  
Field **WATTENBERG**  
County **WELD** State **CO**

Location: API # : 0512338996  
281' FSL & 663' FEL  
SESE  
SEC 9 TWP 1N RGE 67W  
Permanent Datum GL Elevation 5046  
Log Measured From KB  
Drilling Measured From KB  
Other Services  
NONE  
K.B. 5062  
D.F. 5061  
G.L. 5046

Date of Service	05/18/14		
Run Number	1		
Depth Driller or PBTD	17149		
Depth Logger	7564		
Bottom Log Interval	7564		
Top Log Interval	SURFACE		
Open Hole Size	9 5/8		
Type Fluid	FRESH H2O		
Fluid Level	FULL		
Fluid Density	8.33 PPg		
Max. Recorded Temperature	227		
Max. Wellhead Pressure	2600		
Wellhead Connection	7 1/16 10K FLANGE		
Estimated Cement Top	SURFACE		
Unit Number	01		
Wireline Size	9/32		
Location	FL Morgan		
Recorded By	C.NELSON		
Witnessed By	MR.J.MCCARTHY		
Size	WMFt	Top	Bottom
Tubing Record	2 3/8	N/A	SURFACE 7431
Surface Casing	9 5/8 36.OPPF J-55 LTC	N/A	SURFACE 1067
Production Casing	7 HCP-110 LTC	26	SURFACE 7820
Liner Record	4 1/2	11.6	6845 17149

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All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services will not, except in the case of gross or willful negligence on our part, 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. These interpretations are also subject to Pioneer Wireline Services's general terms and conditions set out in our current Price Schedule.

Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.  
S.O. # 2-204591

CORRECTED TO LINER TOP

THANK YOU FOR USING PIONEER WIRELINE SERVICES

Your Pioneer Wireline Services Crew	Tool Data - Services	Serial Number
Engineer: N.BIVENS Operator: C.NELSON Operator: W. Operator: M.ROGERS	PROBE RADIAL BOND TOOL	0001

# Calibration Report

Database File: 05123389960000\_nrc\_1n\_4hz\_rbl.db  
 Dataset Pathname: pass2  
 Dataset Creation: Sun May 18 13:26:57 2014 by Calc 7.0 B1

## Gamma Ray Calibration Report

Serial Number: 030606  
 Tool Model: Probe275  
 Performed: Tue Jan 18 15:14:42 2005

Calibrator Value: 138.0 GAPI

Background Reading: 35.9 cps  
 Calibrator Reading: 244.8 cps

Sensitivity: 0.8607 GAPI/cps

## Segmented Cement Bond Log Calibration Report

Serial Number: 4.5040904  
 Tool Model: Probe

Calibration Casing Diameter: 7.000 in  
 Calibration Depth: 553.483 ft

Master Calibration, performed Sun May 18 09:38:58 2014:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.019	0.734	1.000	62.165	85.516	-0.609
CAL	0.016	1.153				
5'	0.052	0.541	1.000	62.165	125.088	-5.473
SUM						
S1	0.022	0.687	0.000	100.000	150.417	-3.369
S2	0.037	0.641	0.000	100.000	165.739	-6.175
S3	0.051	0.649	0.000	100.000	167.177	-8.563
S4	0.055	0.702	0.000	100.000	154.627	-8.581
S5	0.033	0.767	0.000	100.000	136.358	-4.554
S6	0.036	0.827	0.000	100.000	126.484	-4.564
S7	0.023	0.843	0.000	100.000	100.001	-2.833
S8	0.022	0.780	0.000	100.000	100.063	-2.969

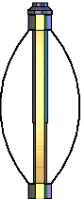

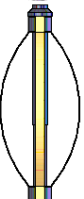
Internal Reference Calibration, performed Wed Dec 31 17:00:00 1969:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.016	1.153	1.000	0.000

Air Zero Calibration, performed Thu Feb 23 11:04:07 2012:

	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	
			RBT-Probe (4.5040904) Prototype Probe Radii Bond Tool with Digital Telemetry	8.88	2.75	90.00
WVF3FT	11.63					
WVFCAL	11.63					
WVFS1	11.63					
WVFS2	11.63					
WVFS3	11.63					
WVFS4	11.63					
WVFS5	11.63					
WVFS6	11.63					
WVFS7	11.63					
WVFS8	11.63					
WVF5FT	10.63					
			PTS275	2.83	2.75	
CCL	3.63					
GR	2.30		GR-Probe275 (030606)	4.54	2.75	57.00

Dataset:	05123389960000_nrc_1n_4hz_rbl.db: field/well/run1/pass2
Total Length:	19.08 ft
Total Weight:	147.00 lb
O.D.	2.75 in



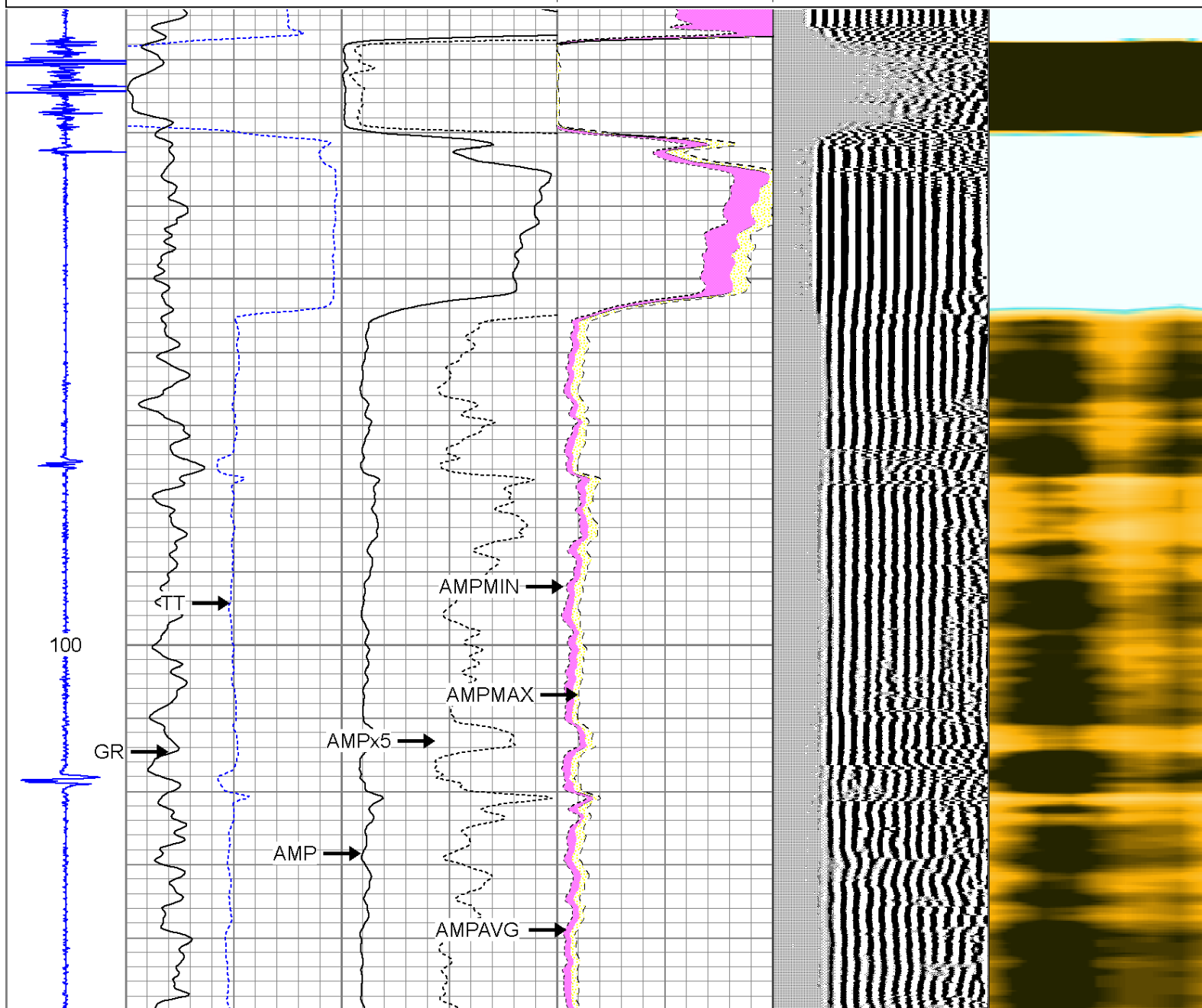
Pioneer Energy Services

## MAIN LOG

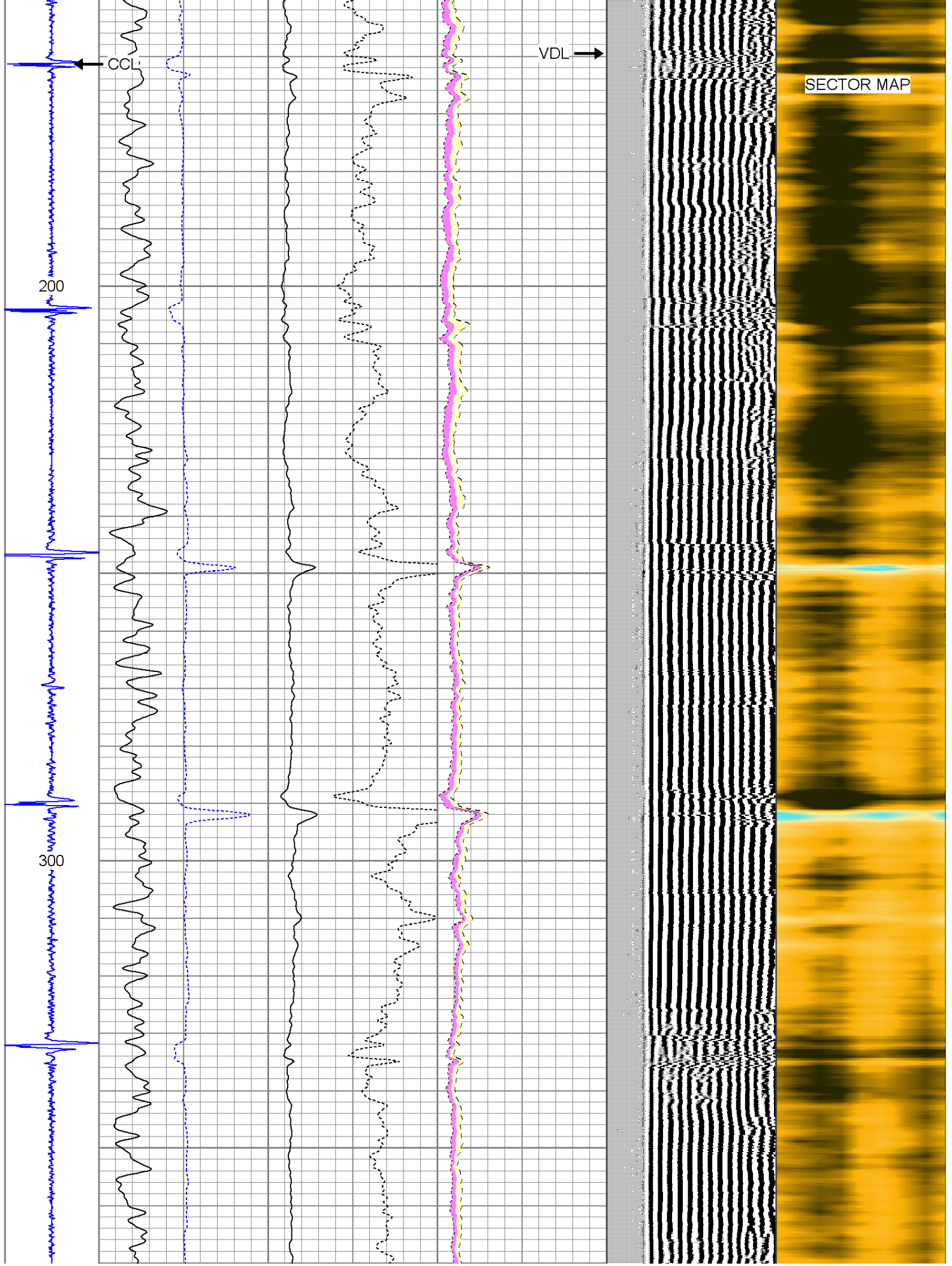
2600 PSI APPLIED AT SURFACE

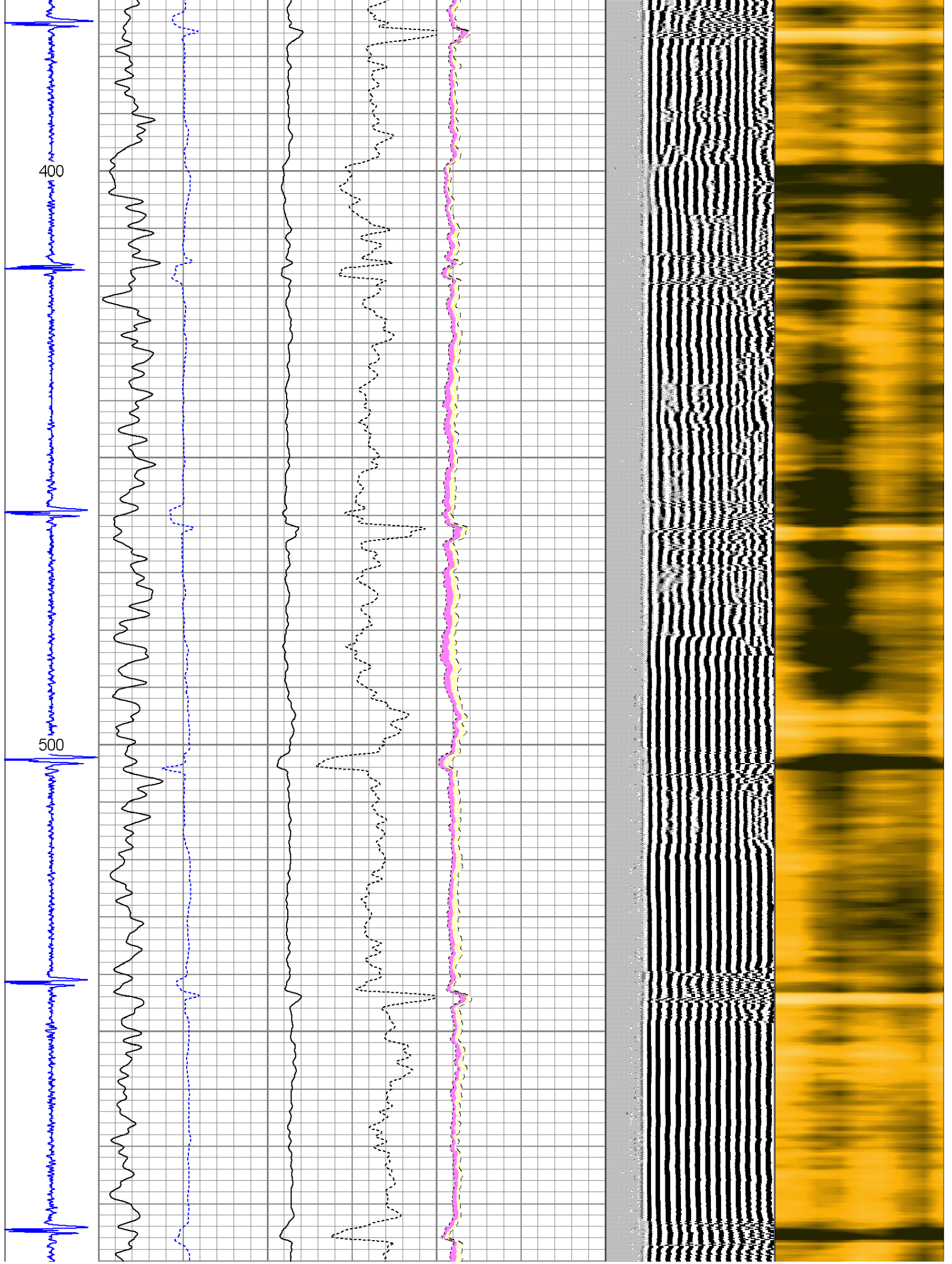
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Presentation Format: scbl02  
Dataset Creation: Sun May 18 11:19:43 2014 by Calc 7.0 B1  
Charted by: Depth in Feet scaled 1:240

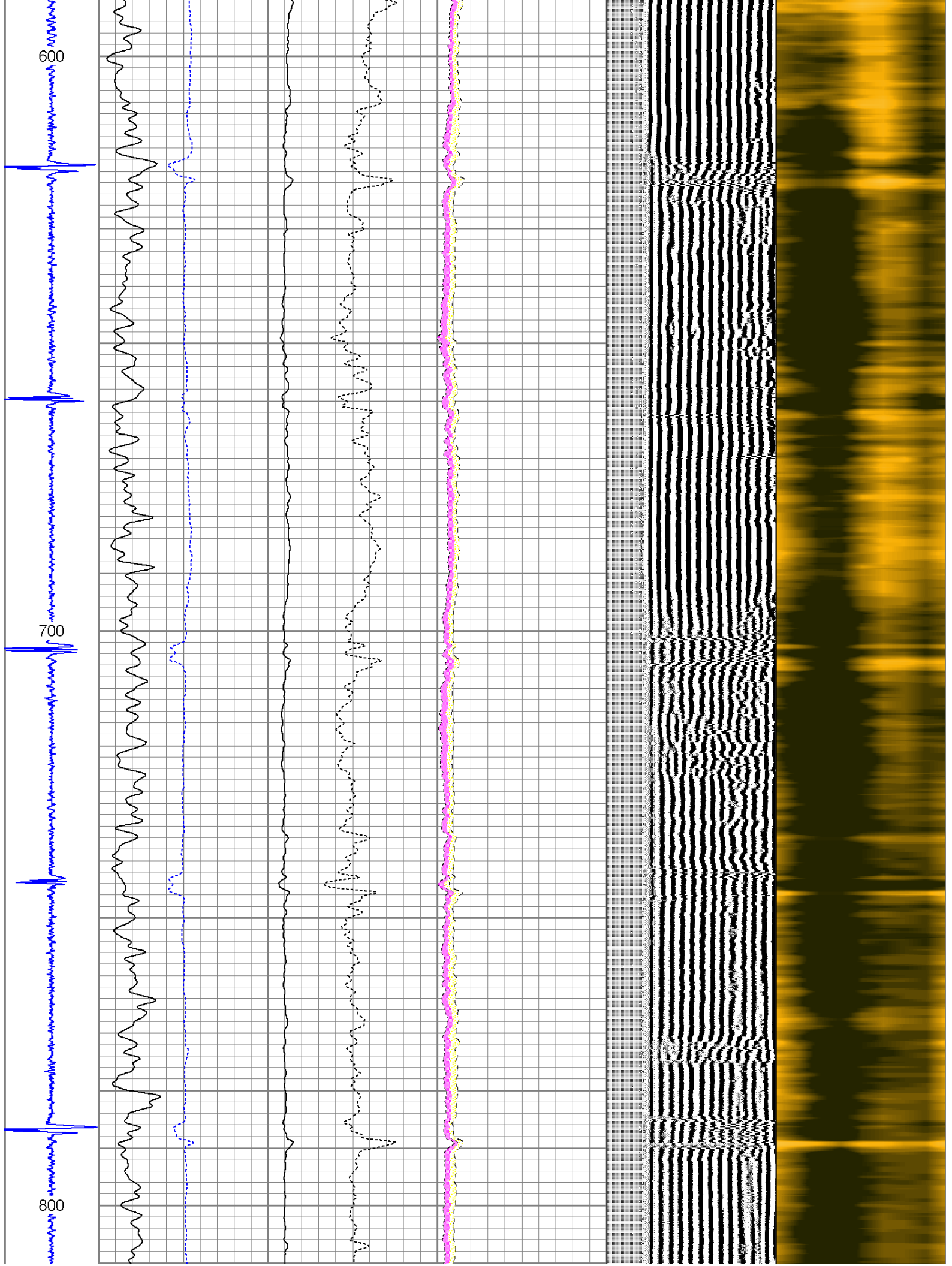
5	CCL	-5	362	TT (usec)	262	0	AMP (mV)	100	0	AMPAVG	150	200	VDL	1200	1	SECTOR MAP	8
			0	GR (GAPI)	150	0	AMPx5 (mV)	20	0	AMPMAX	150				10		60
									0	AMPMIN	150						



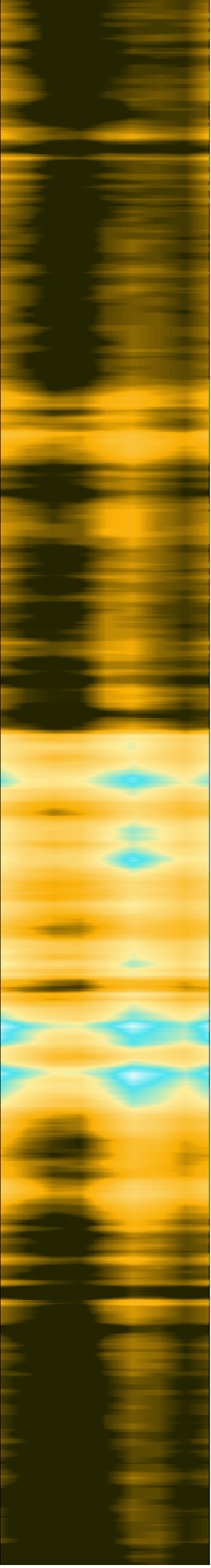
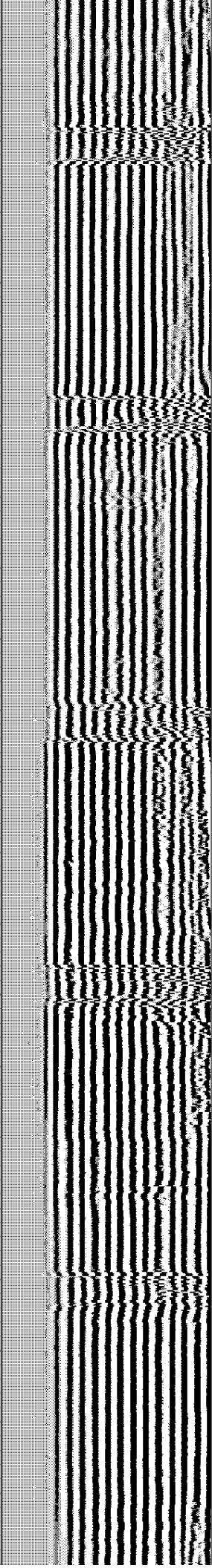
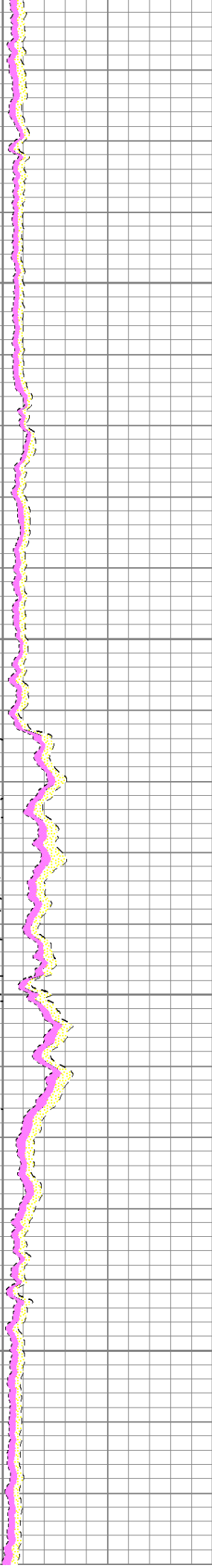
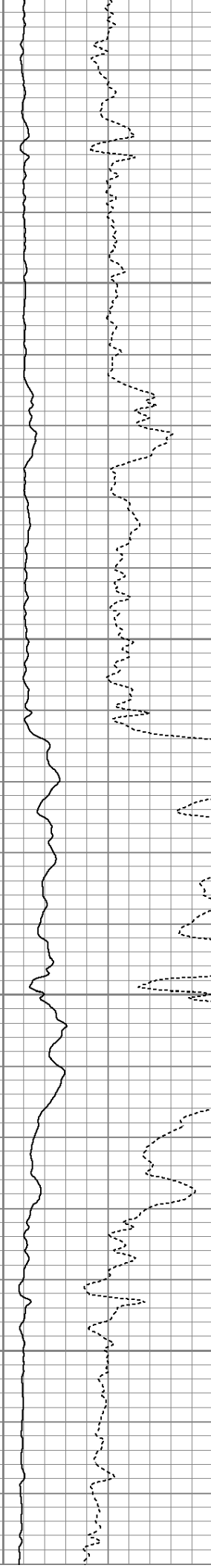
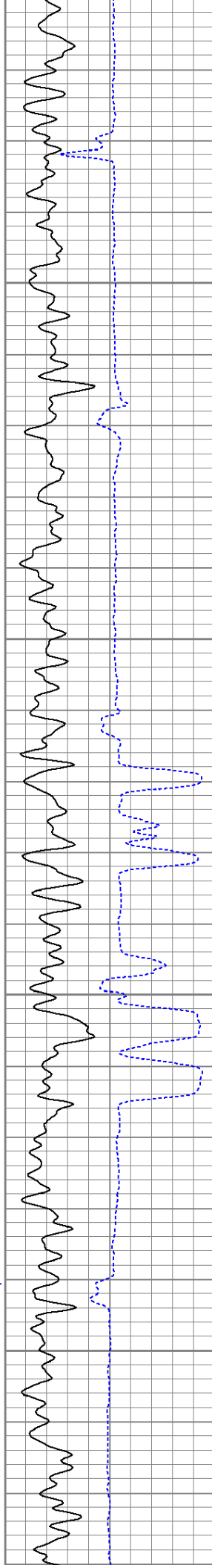
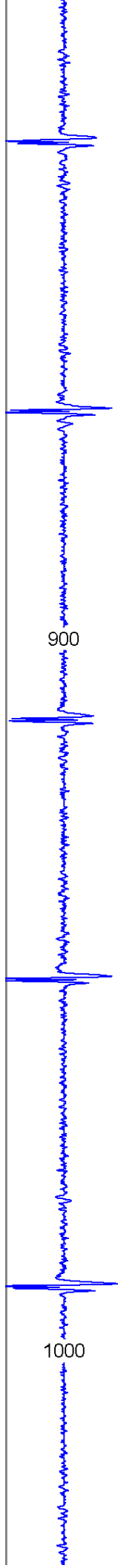


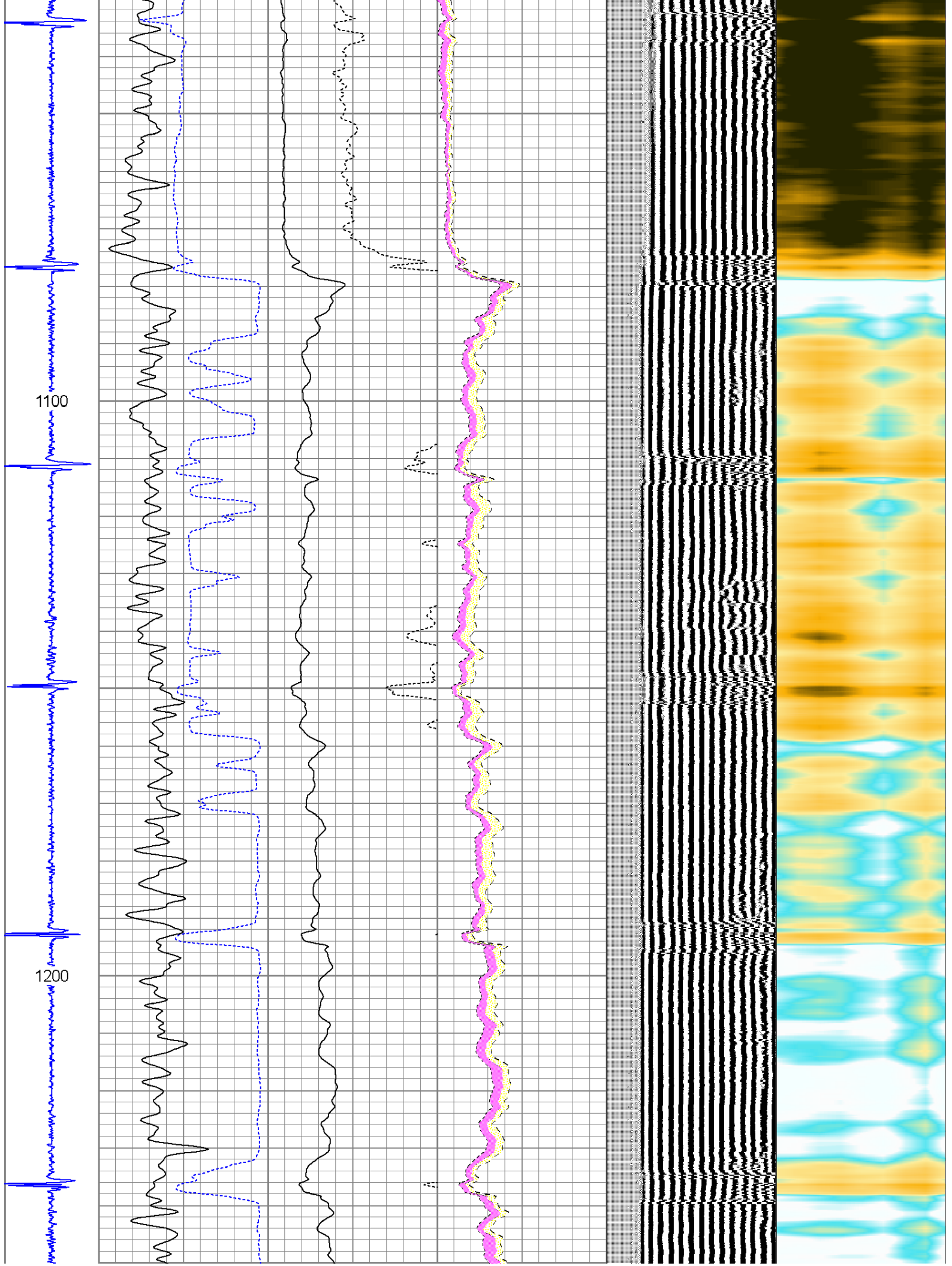


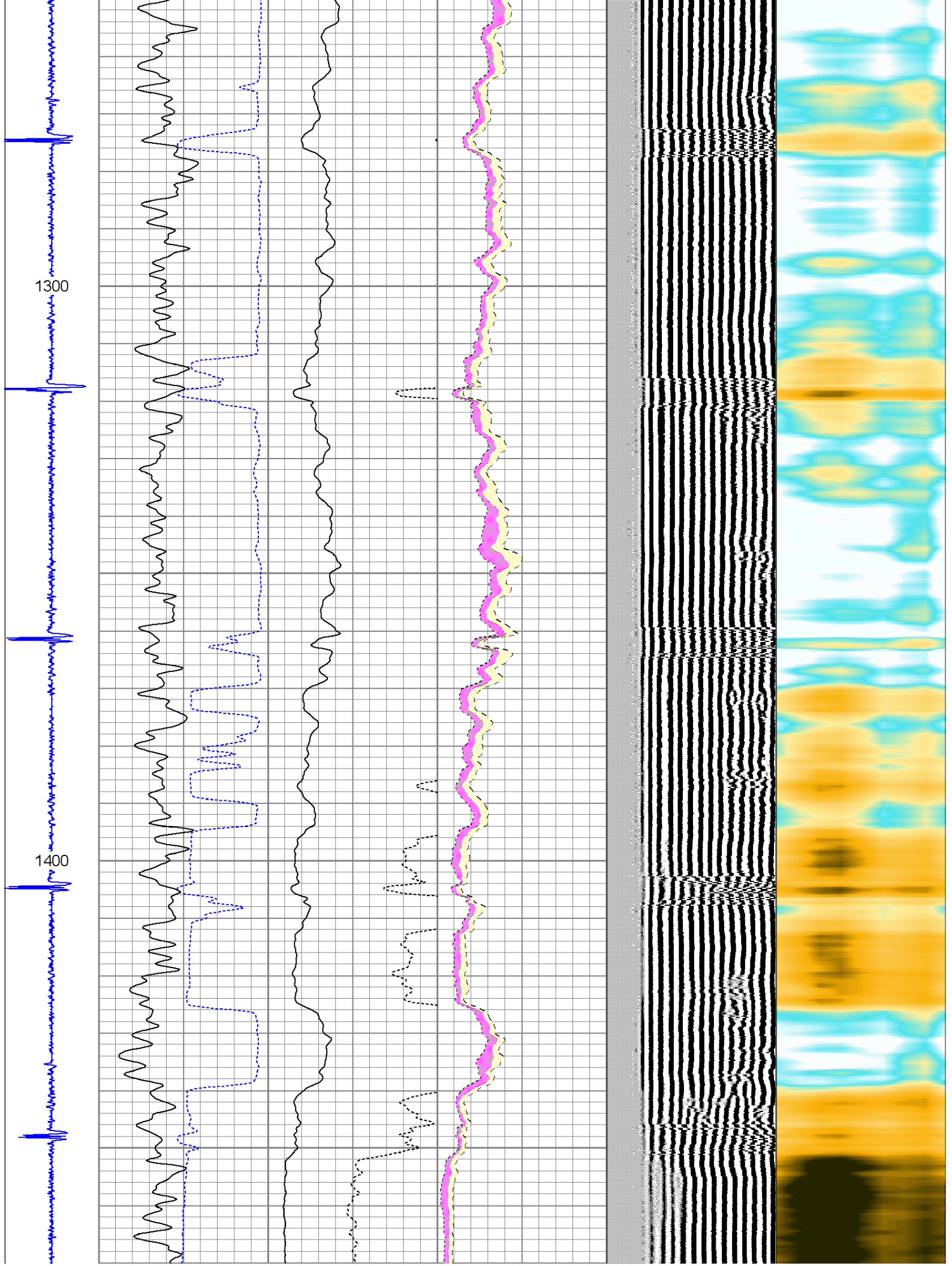




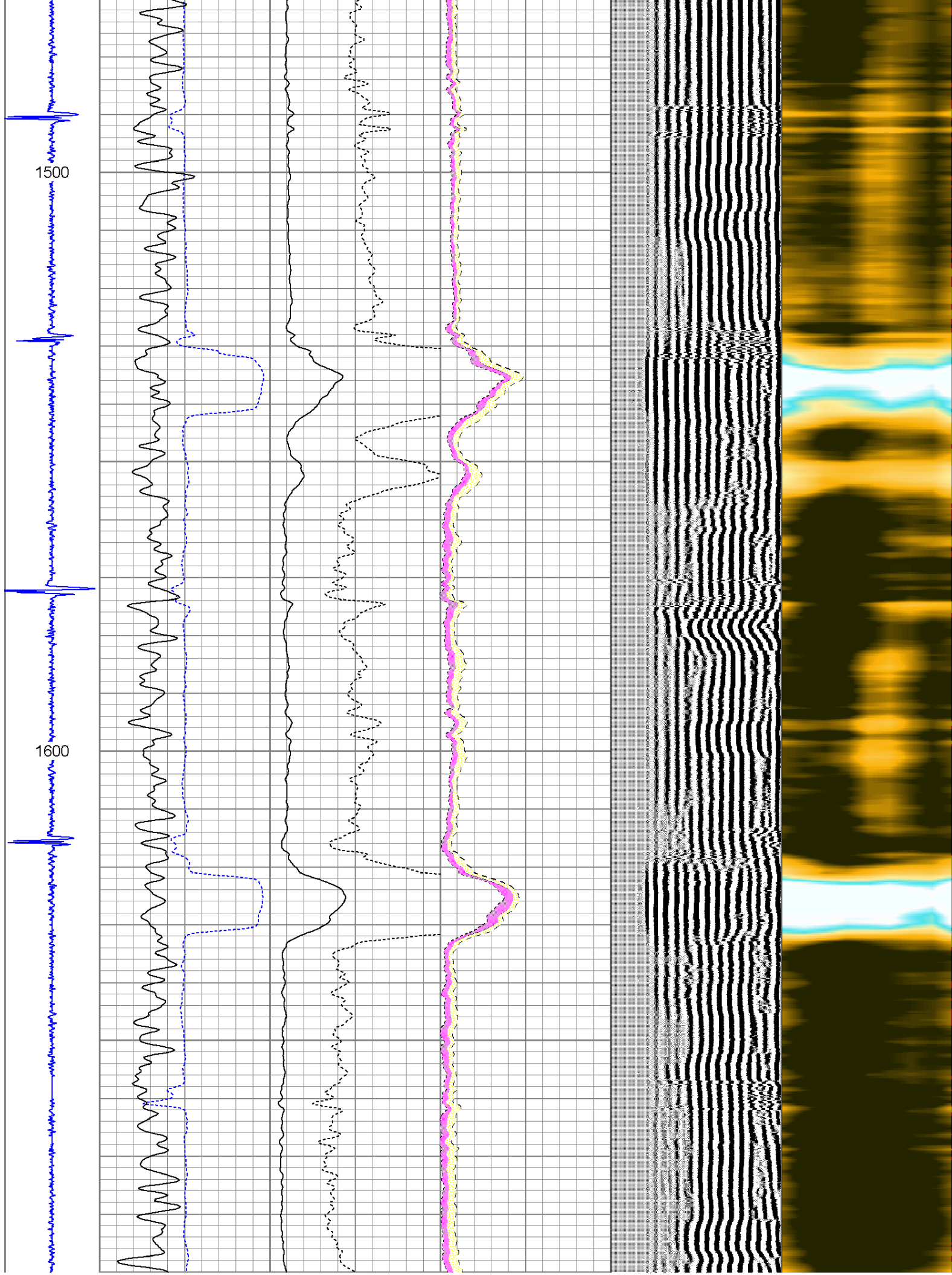


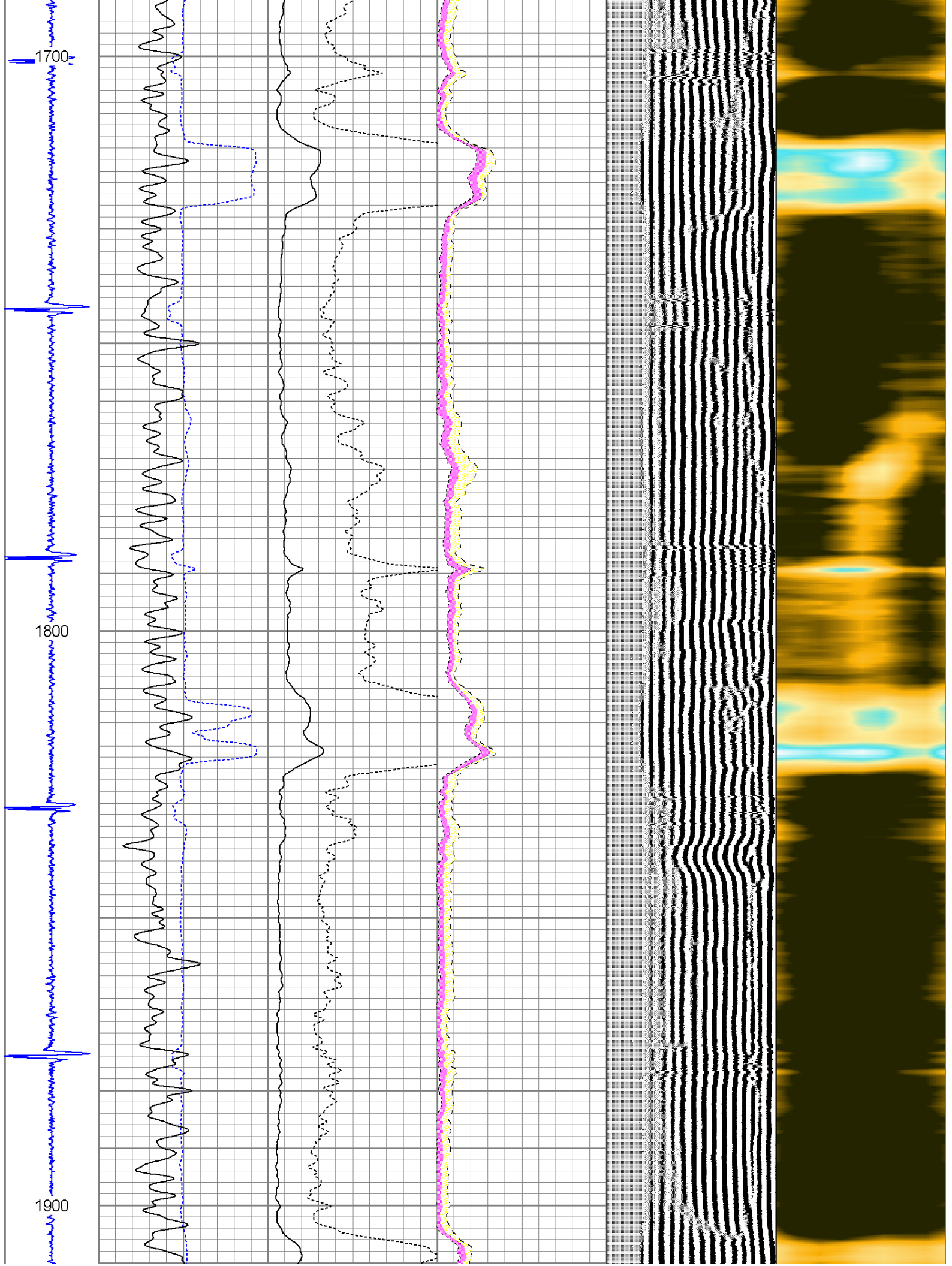




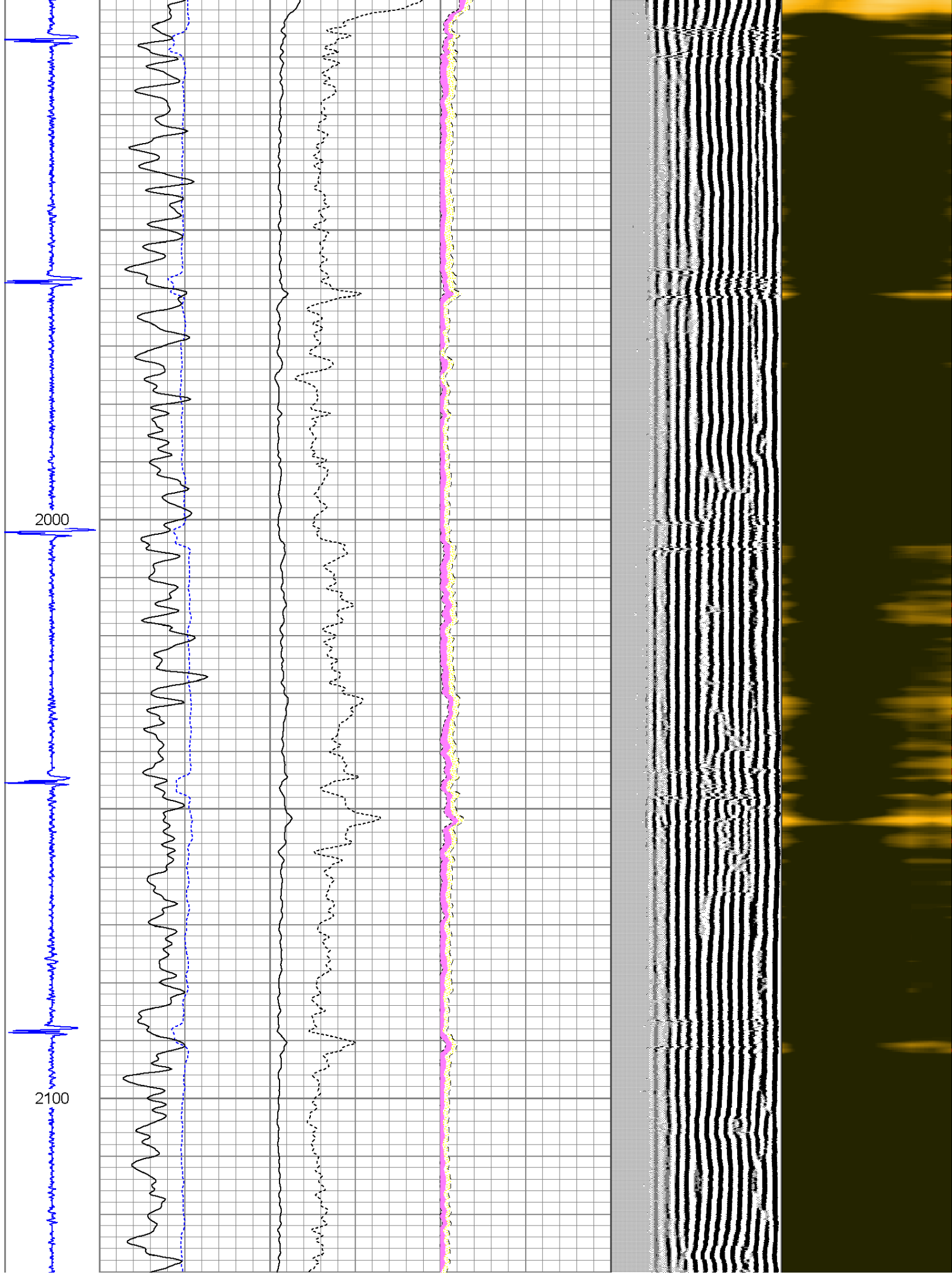


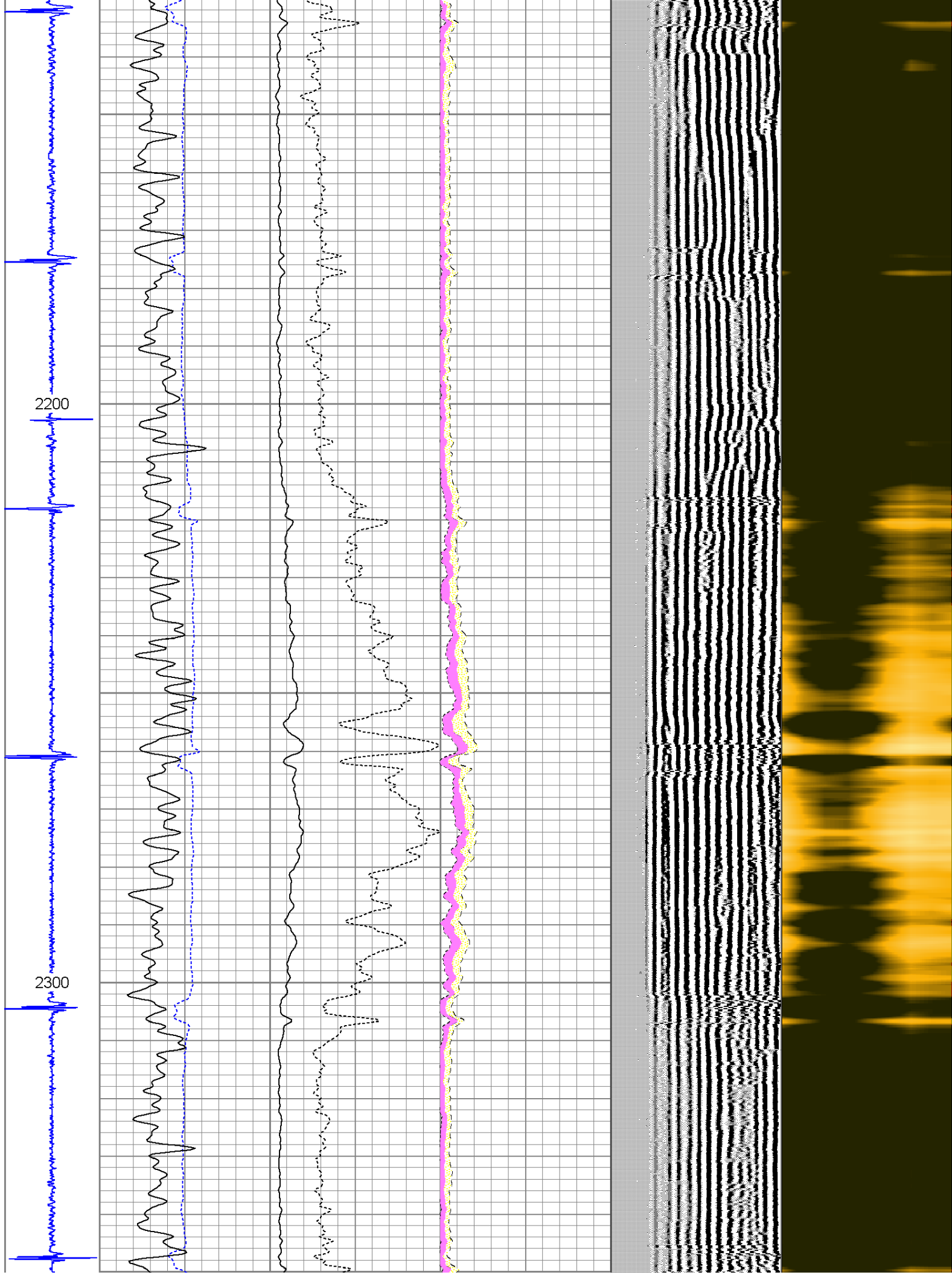


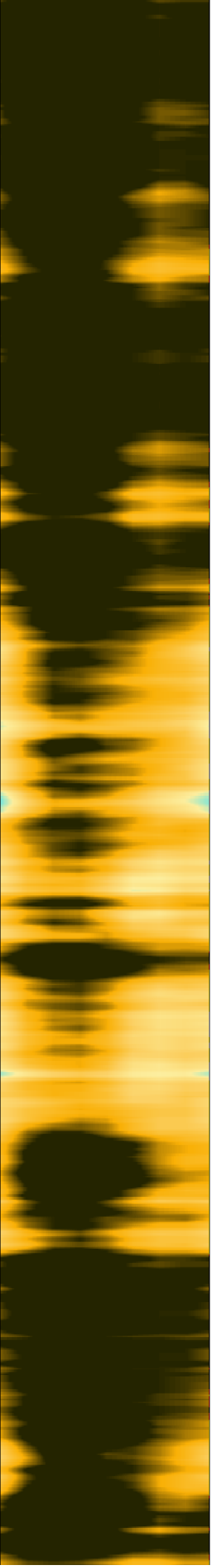
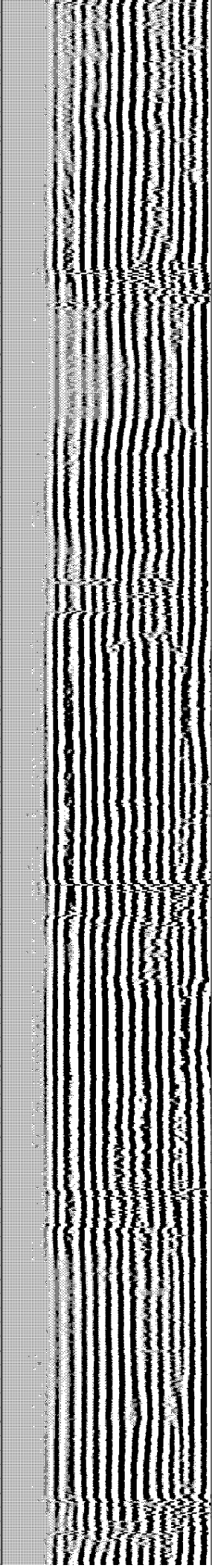
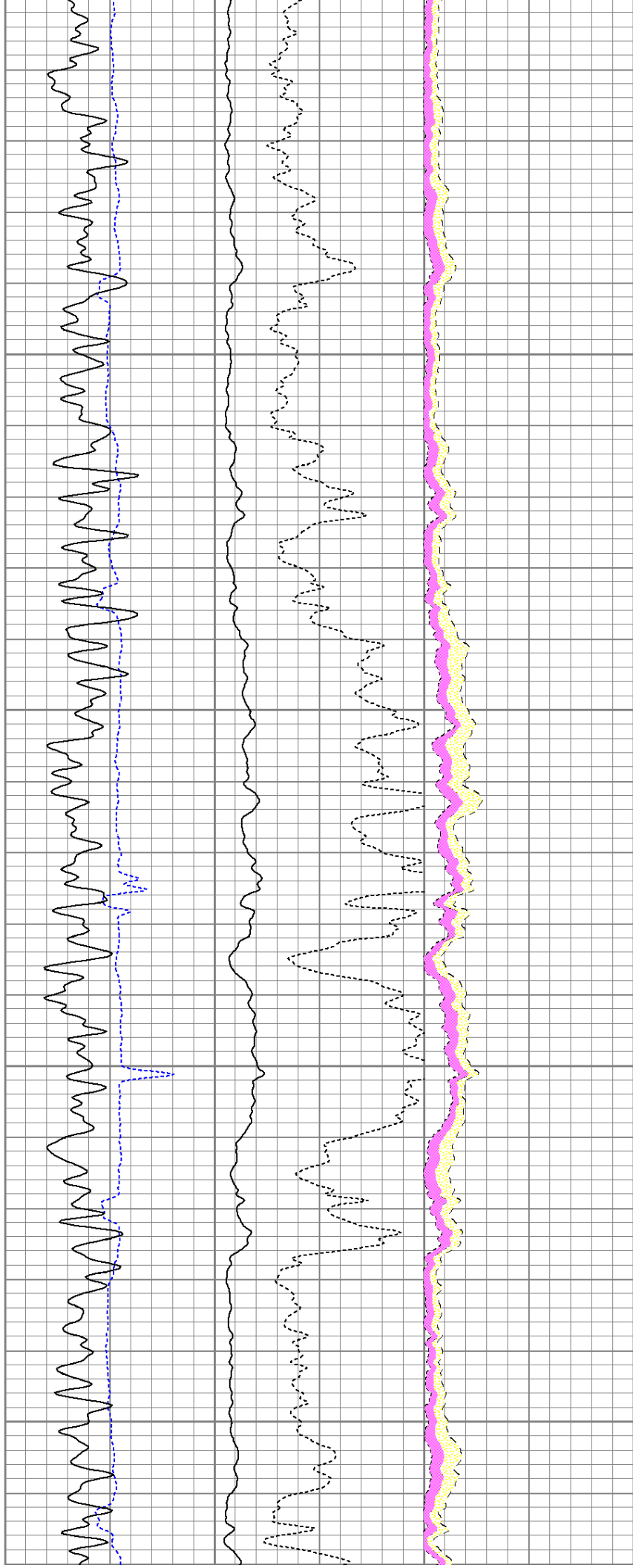
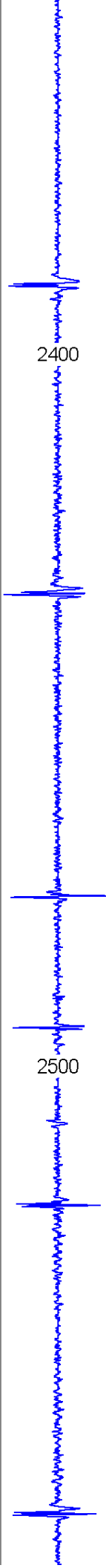




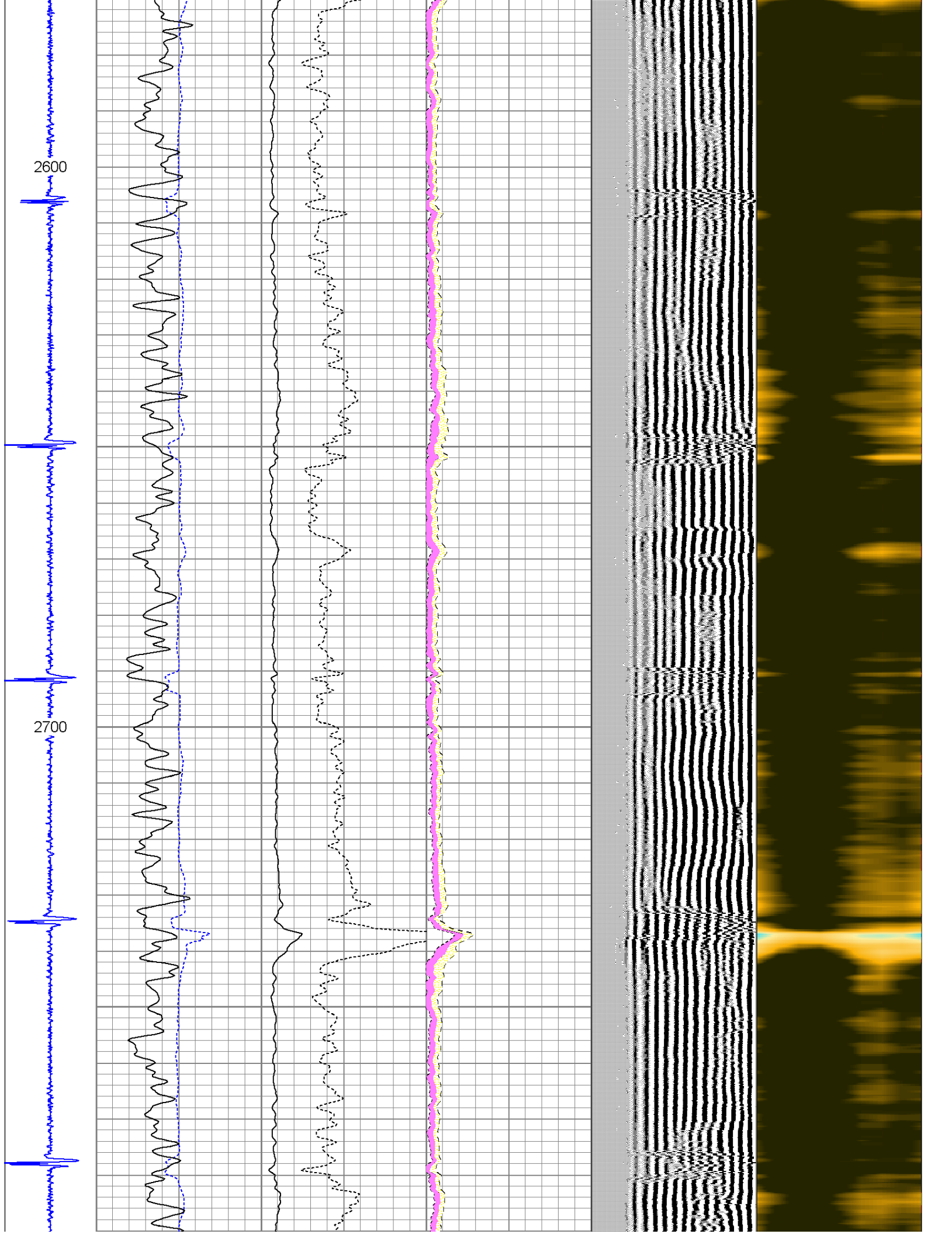


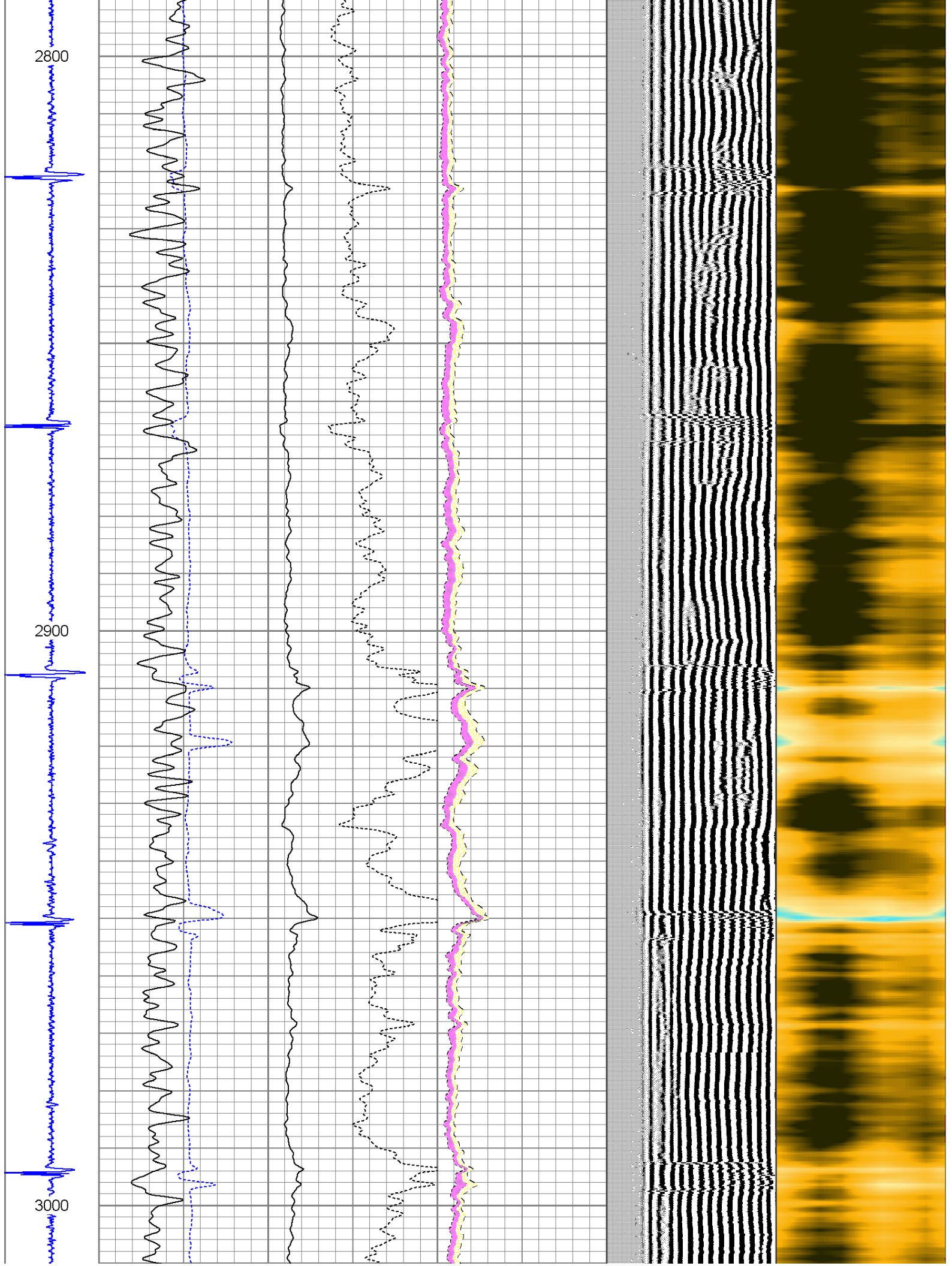


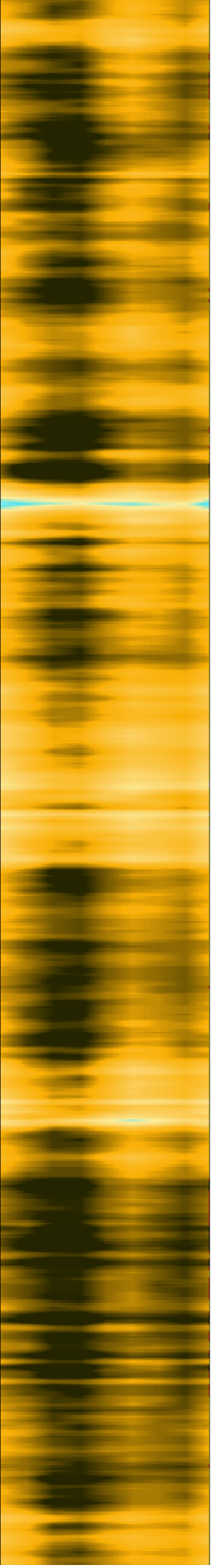
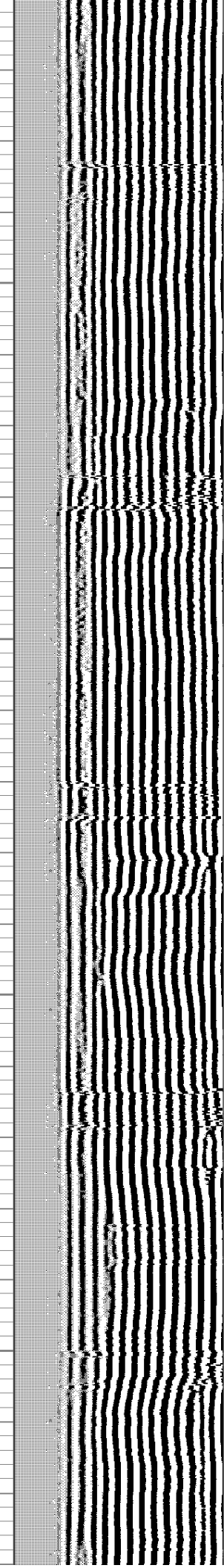
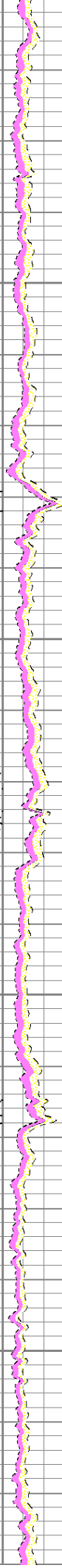
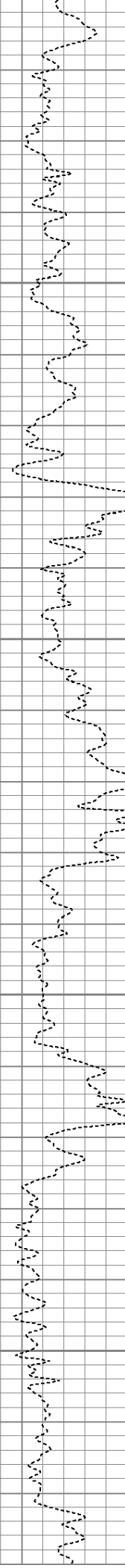
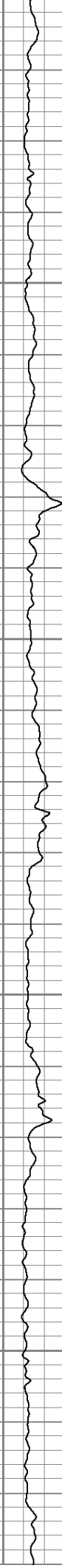
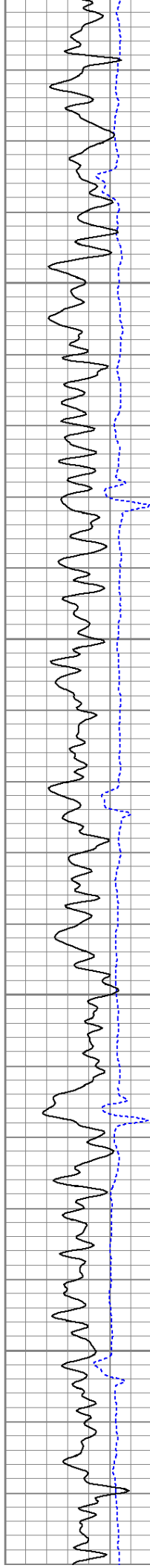
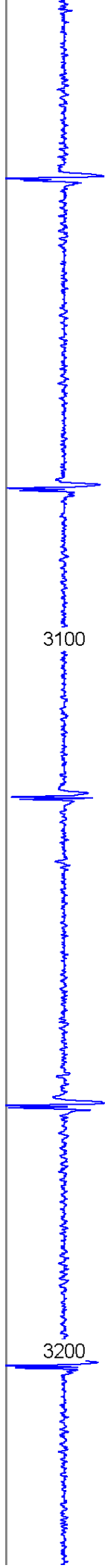




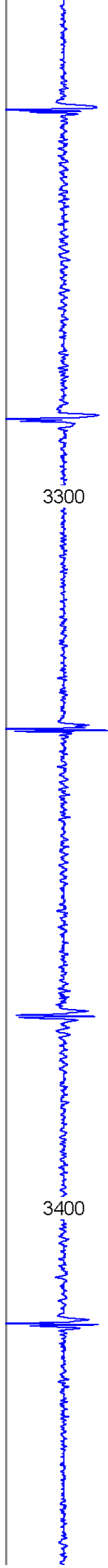








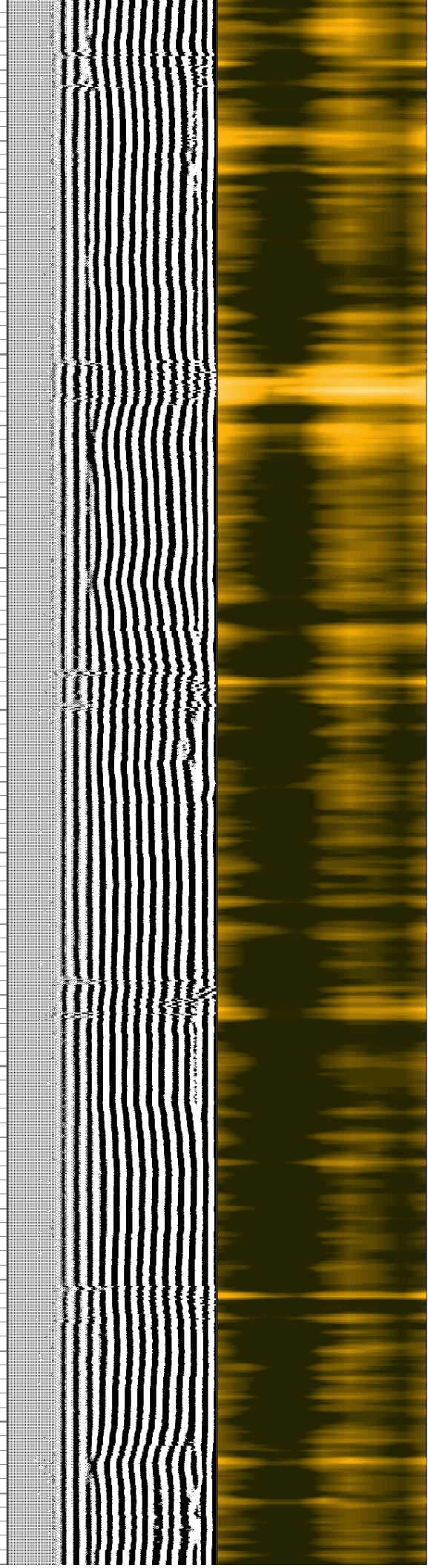
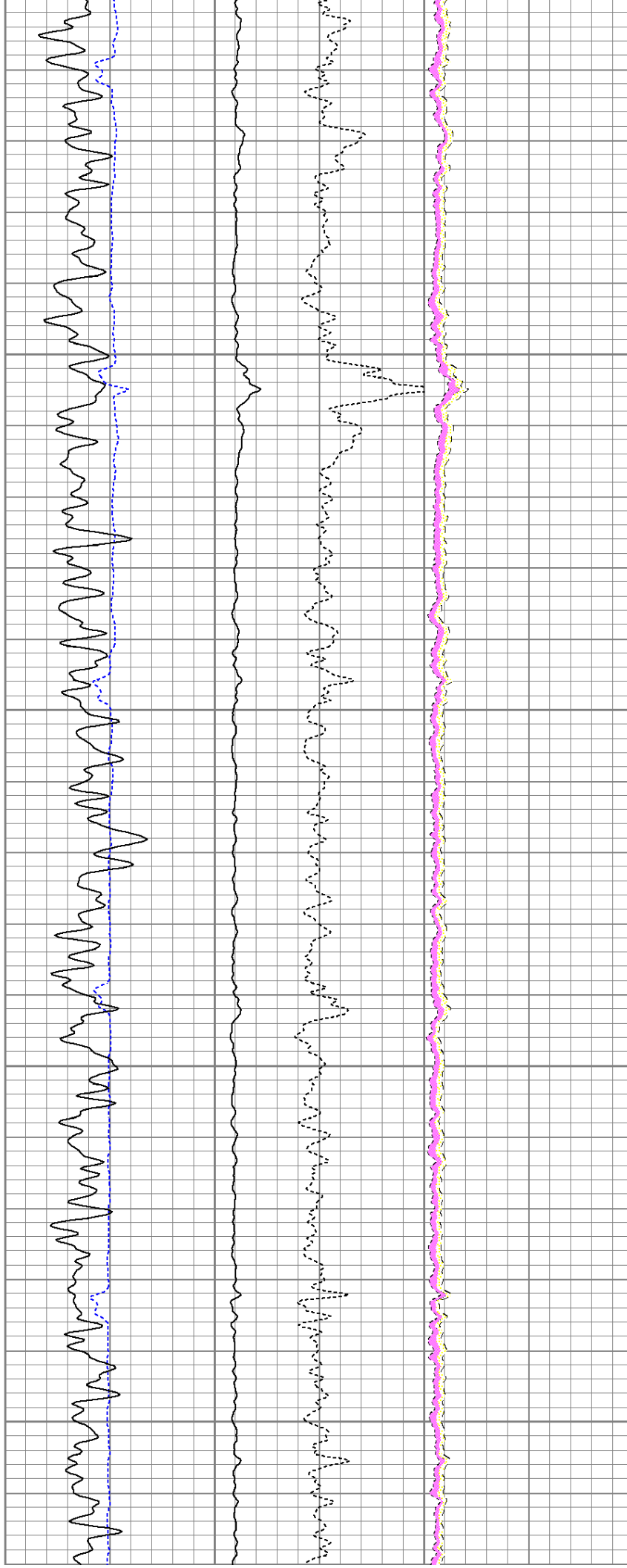
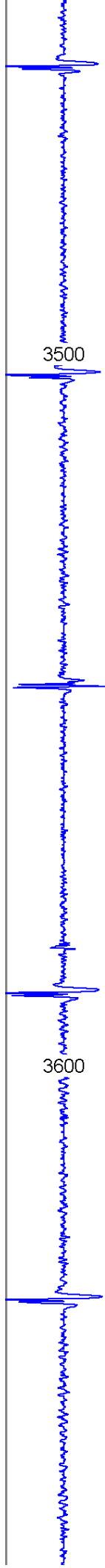




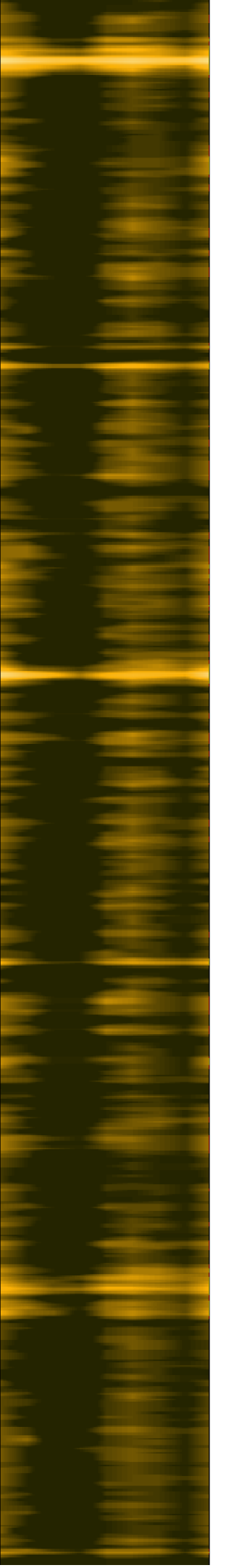
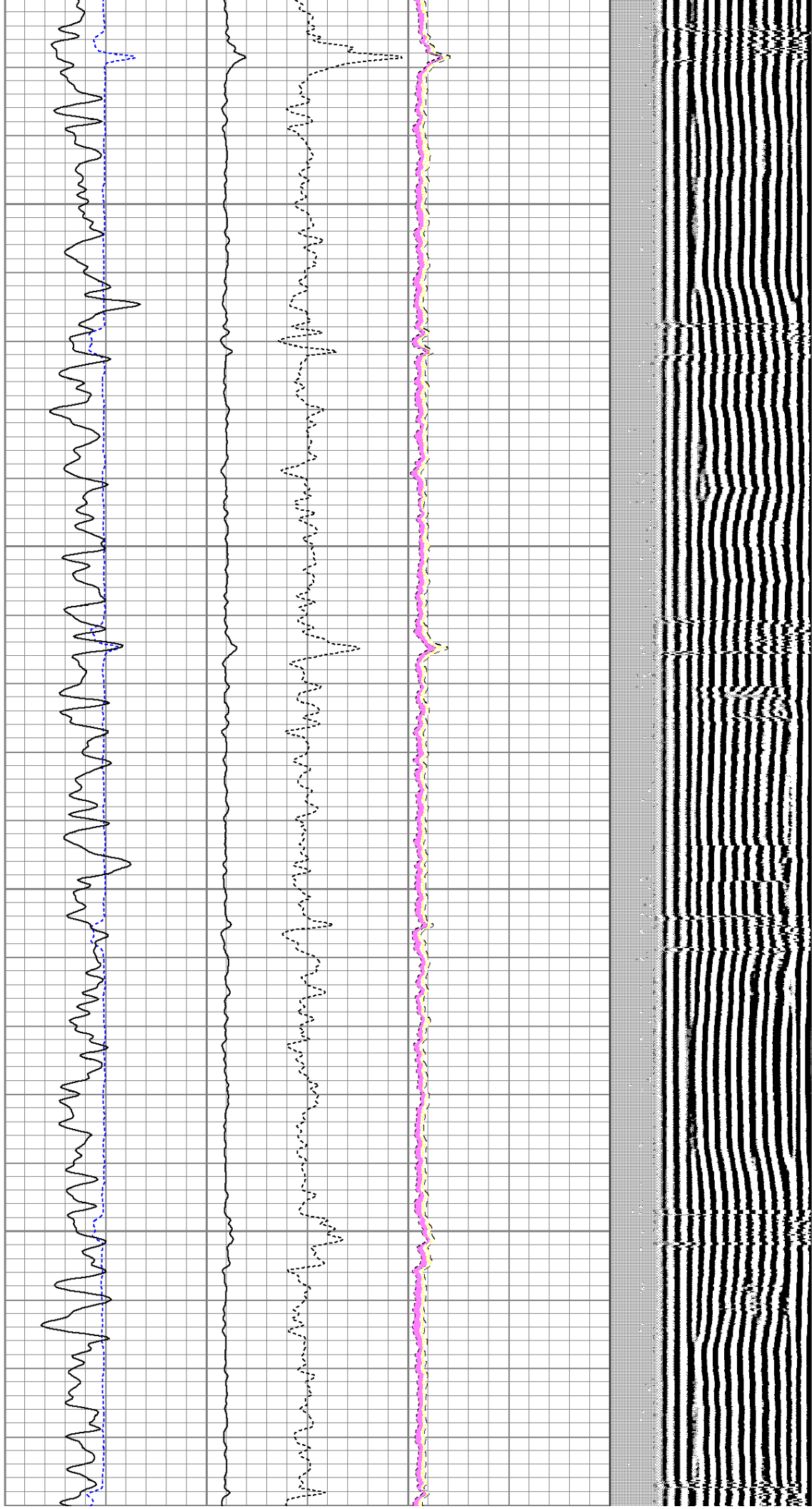
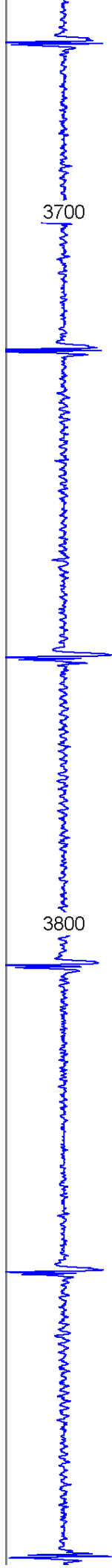
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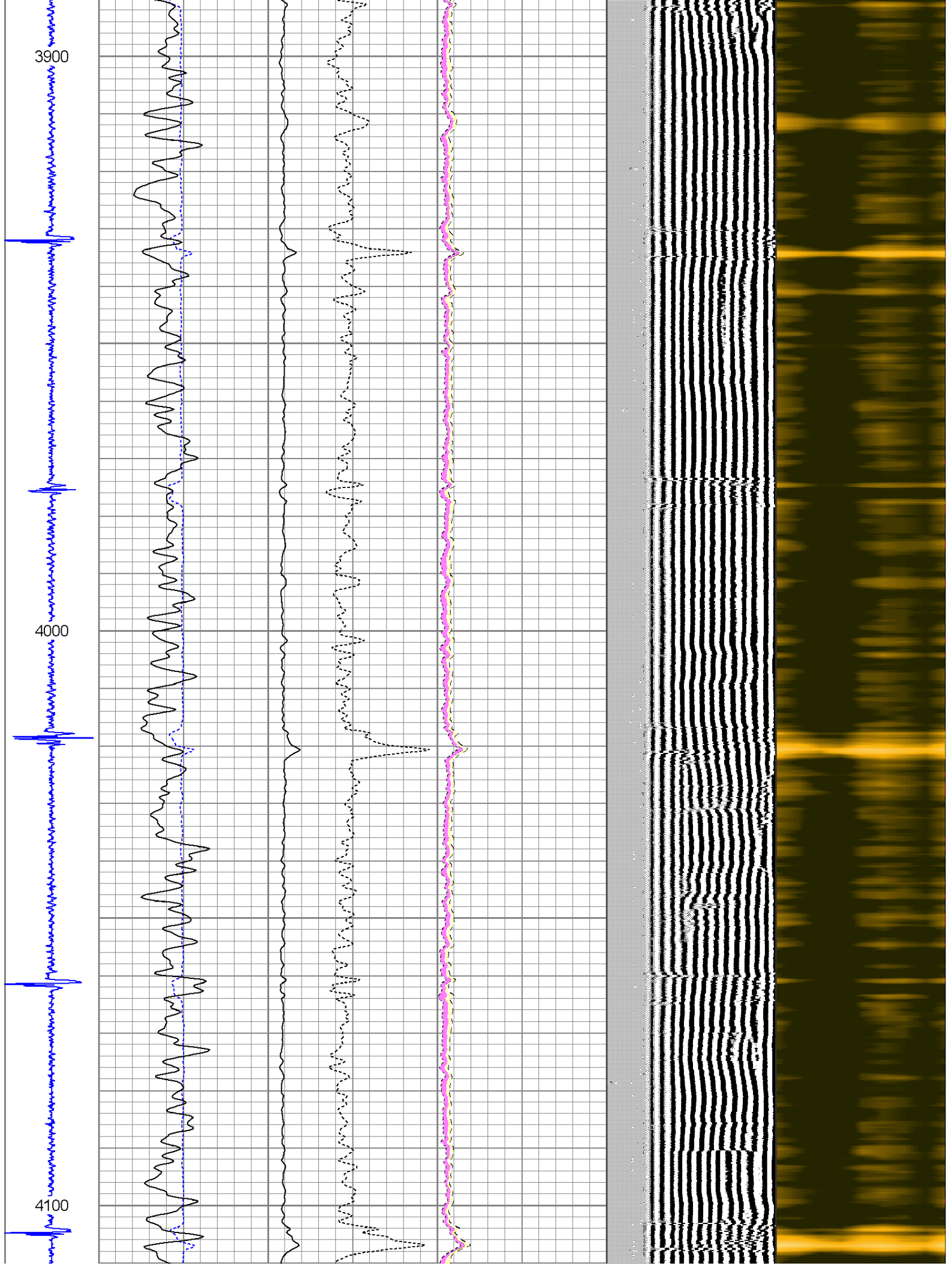
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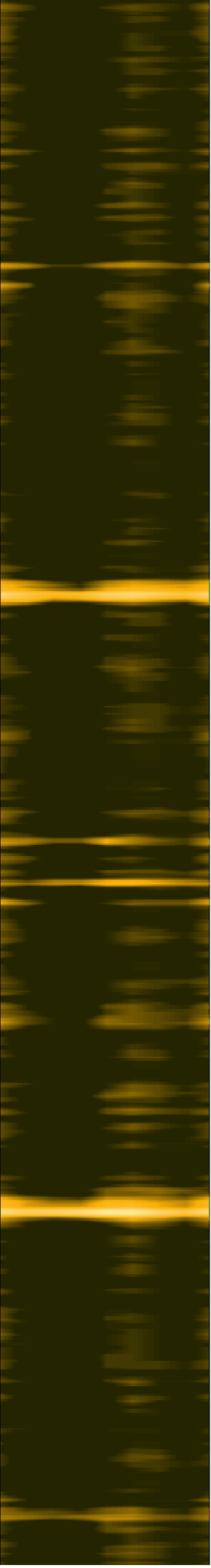
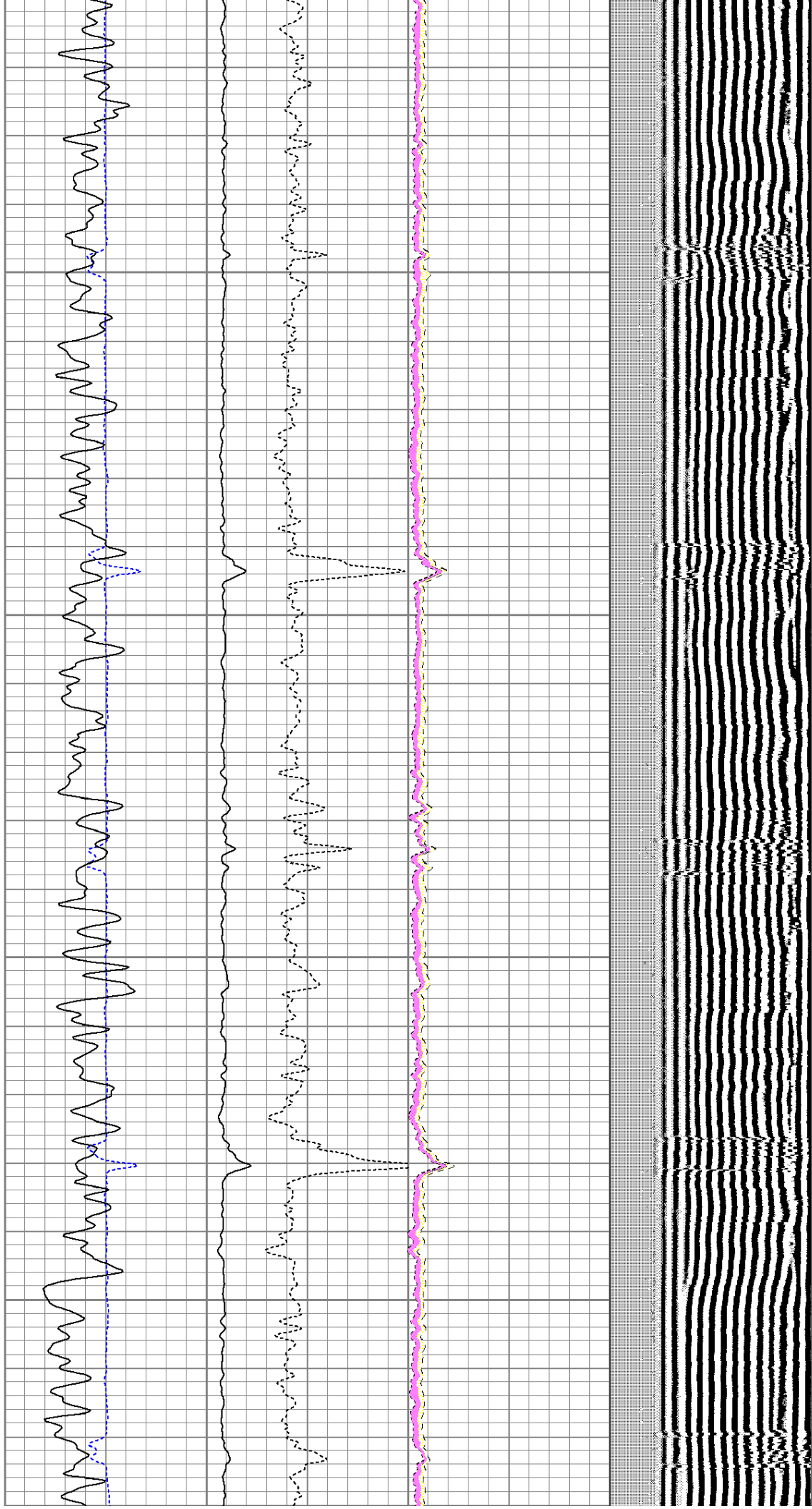
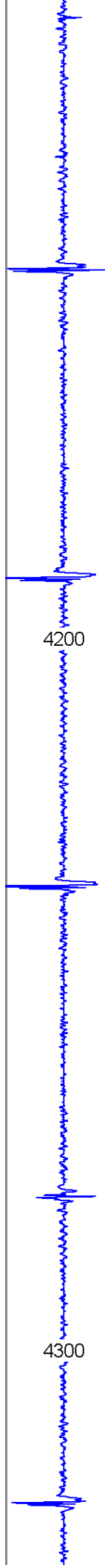




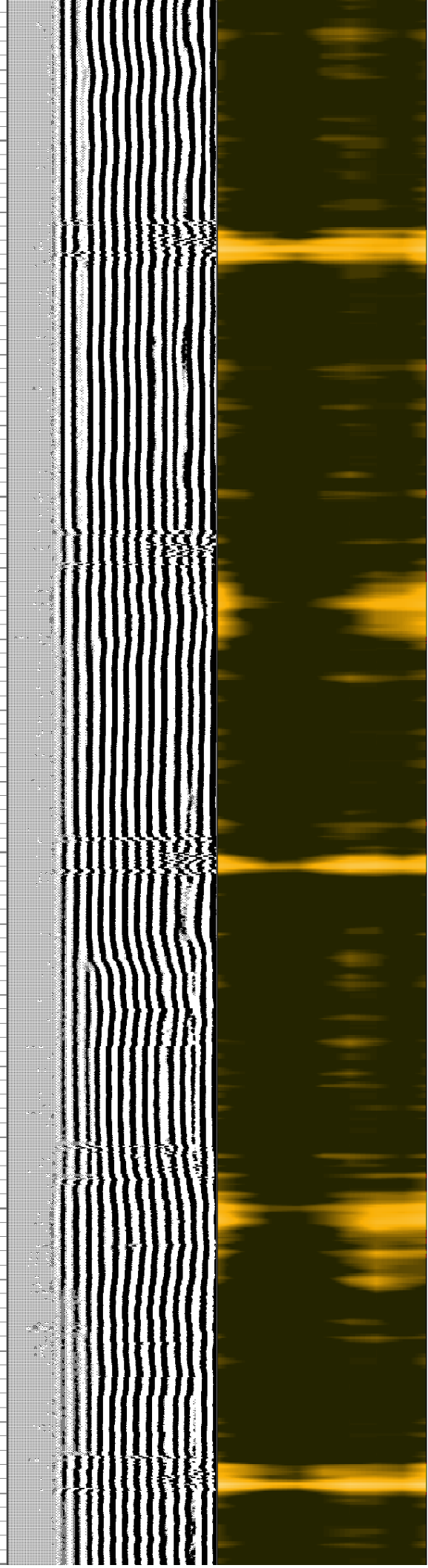
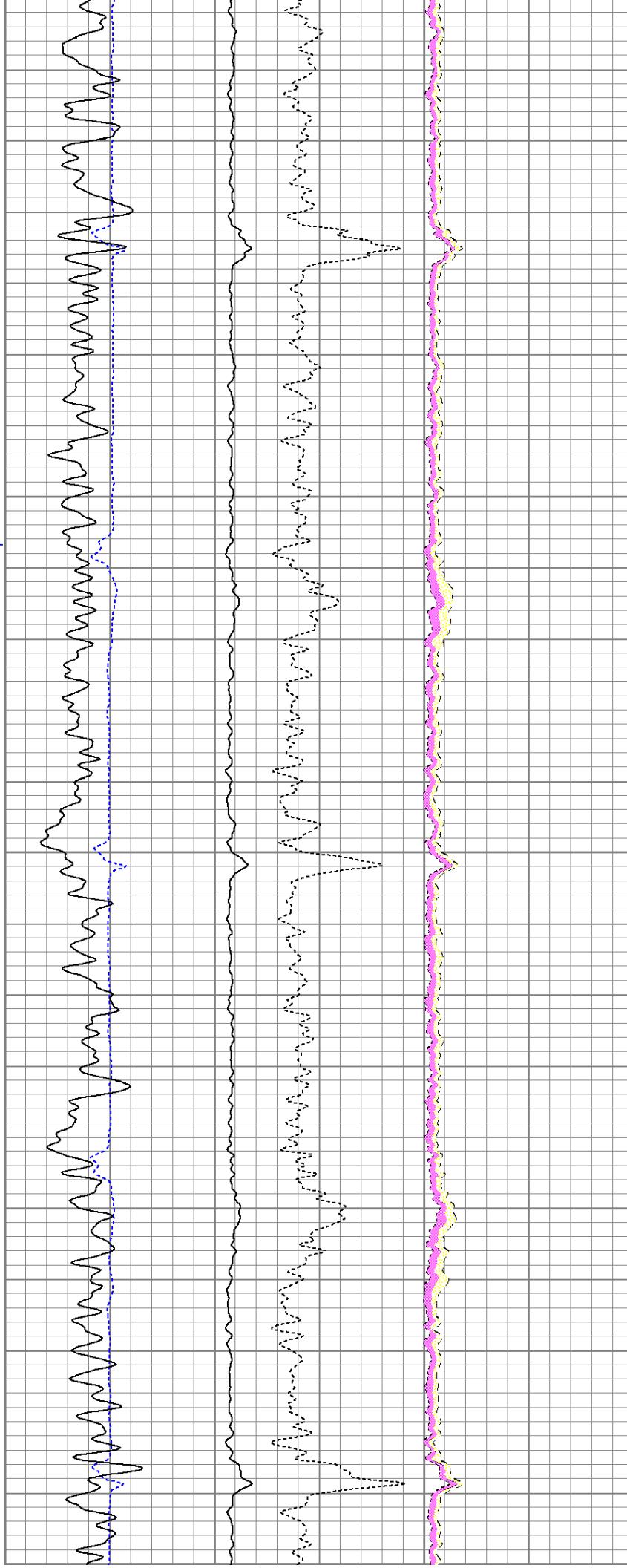
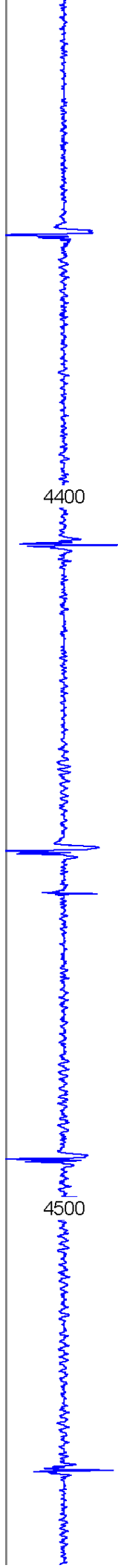


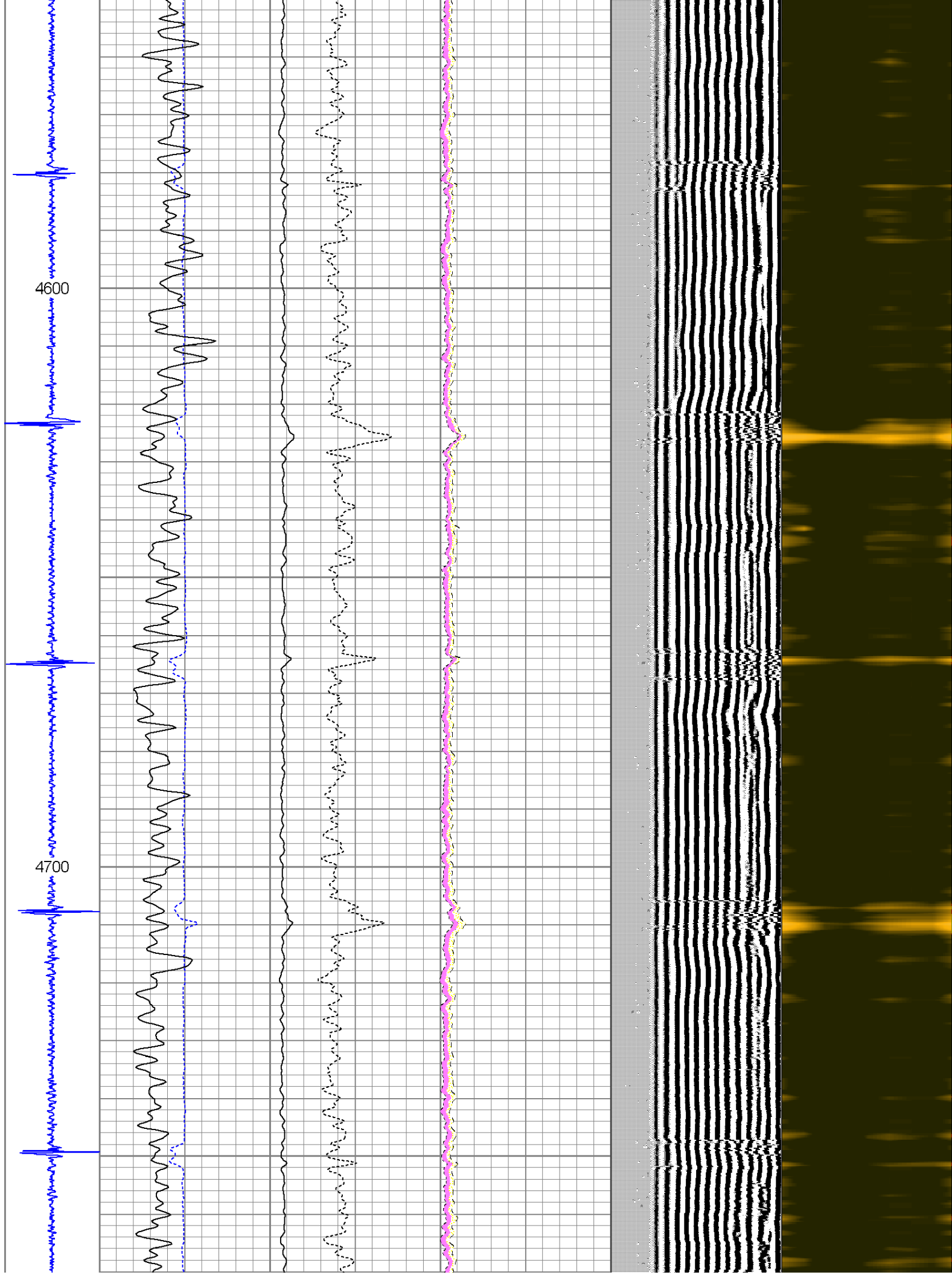


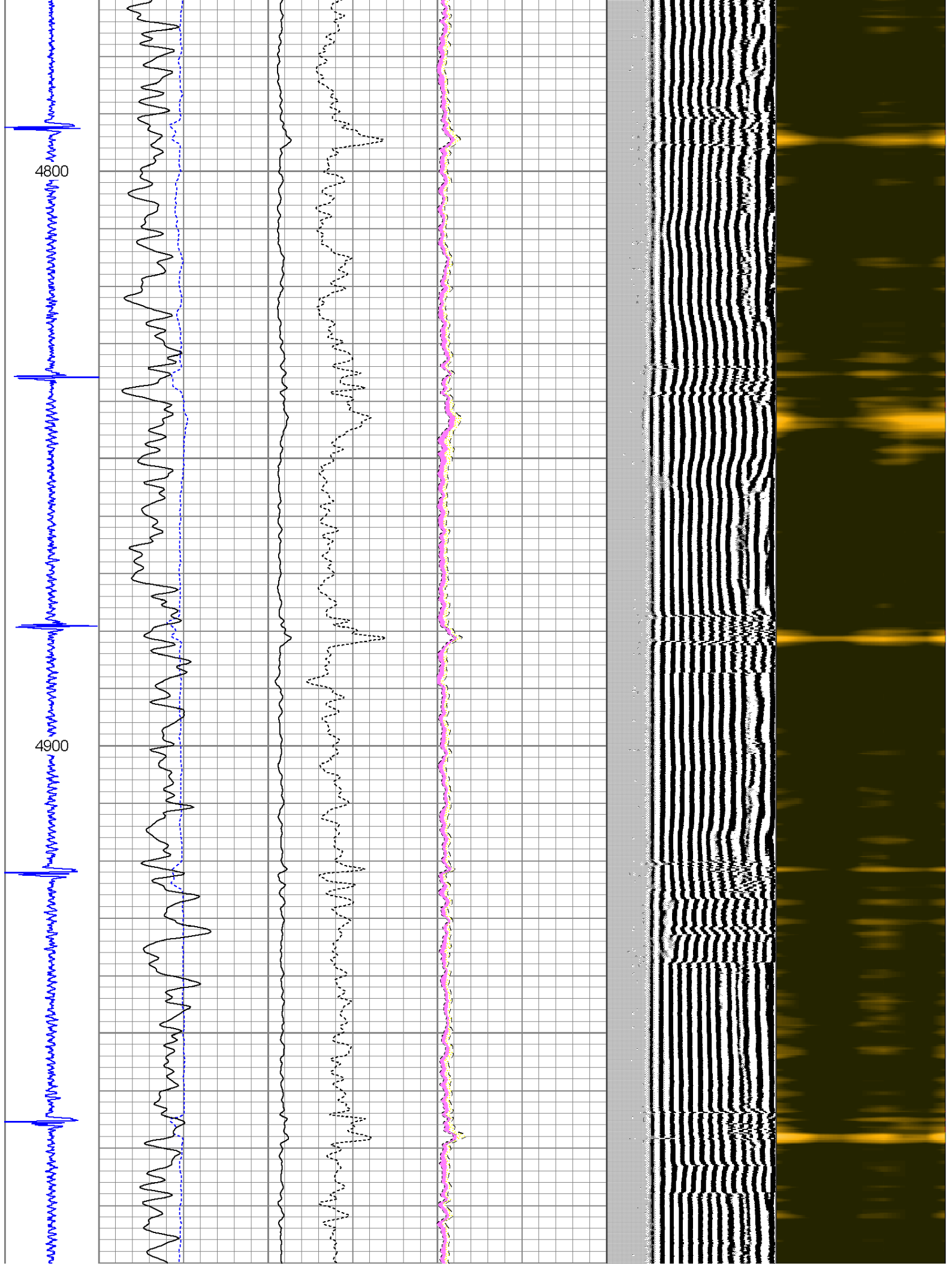




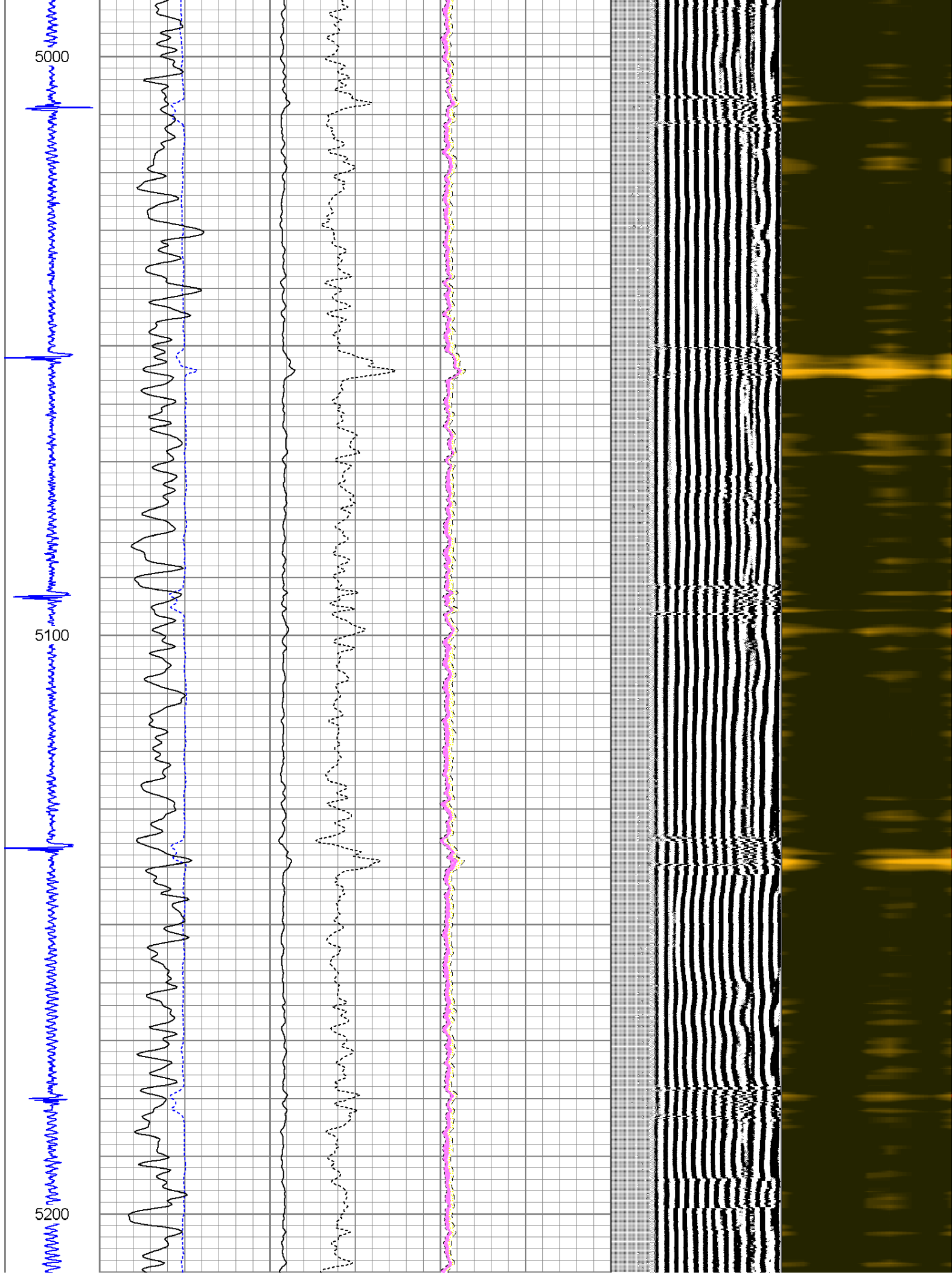


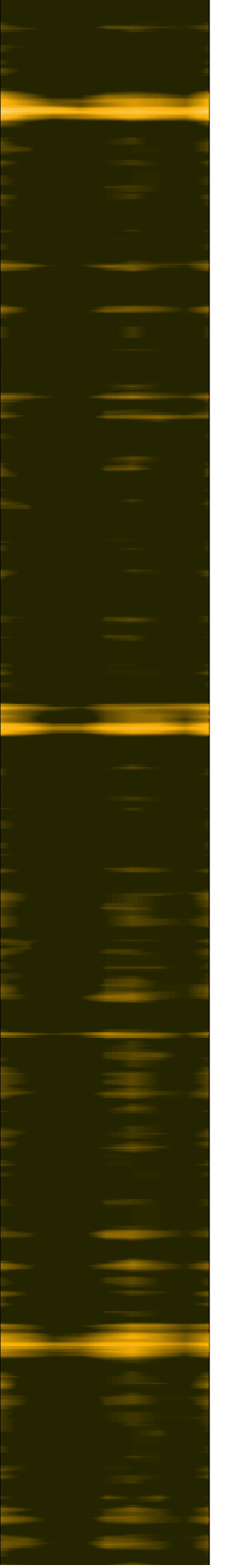
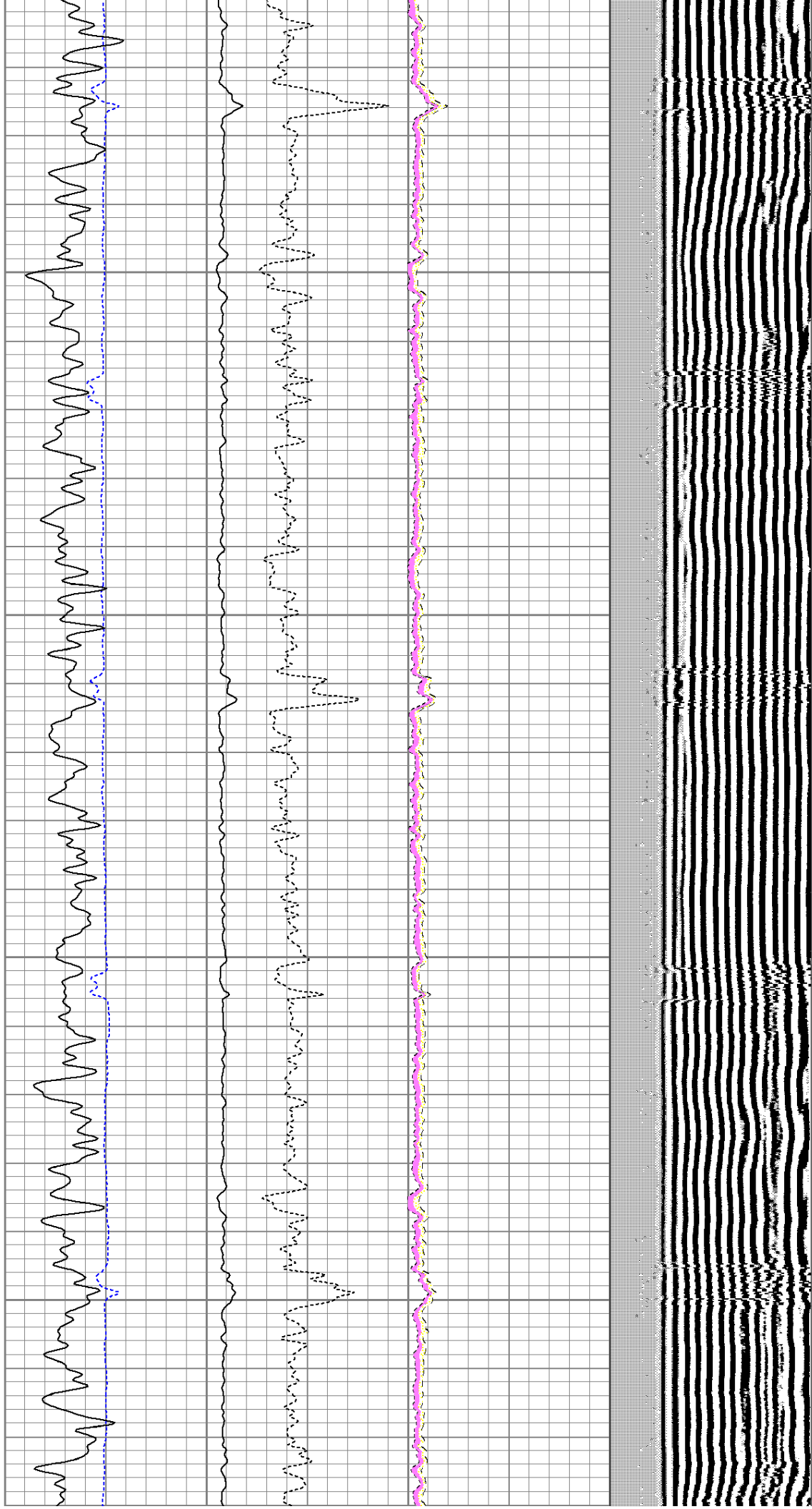
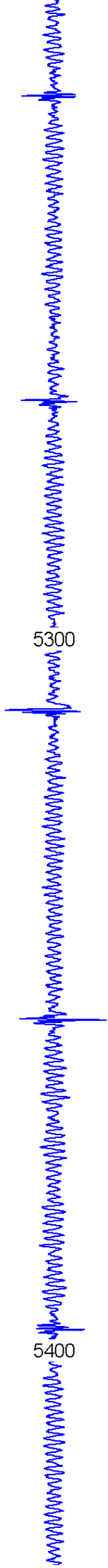




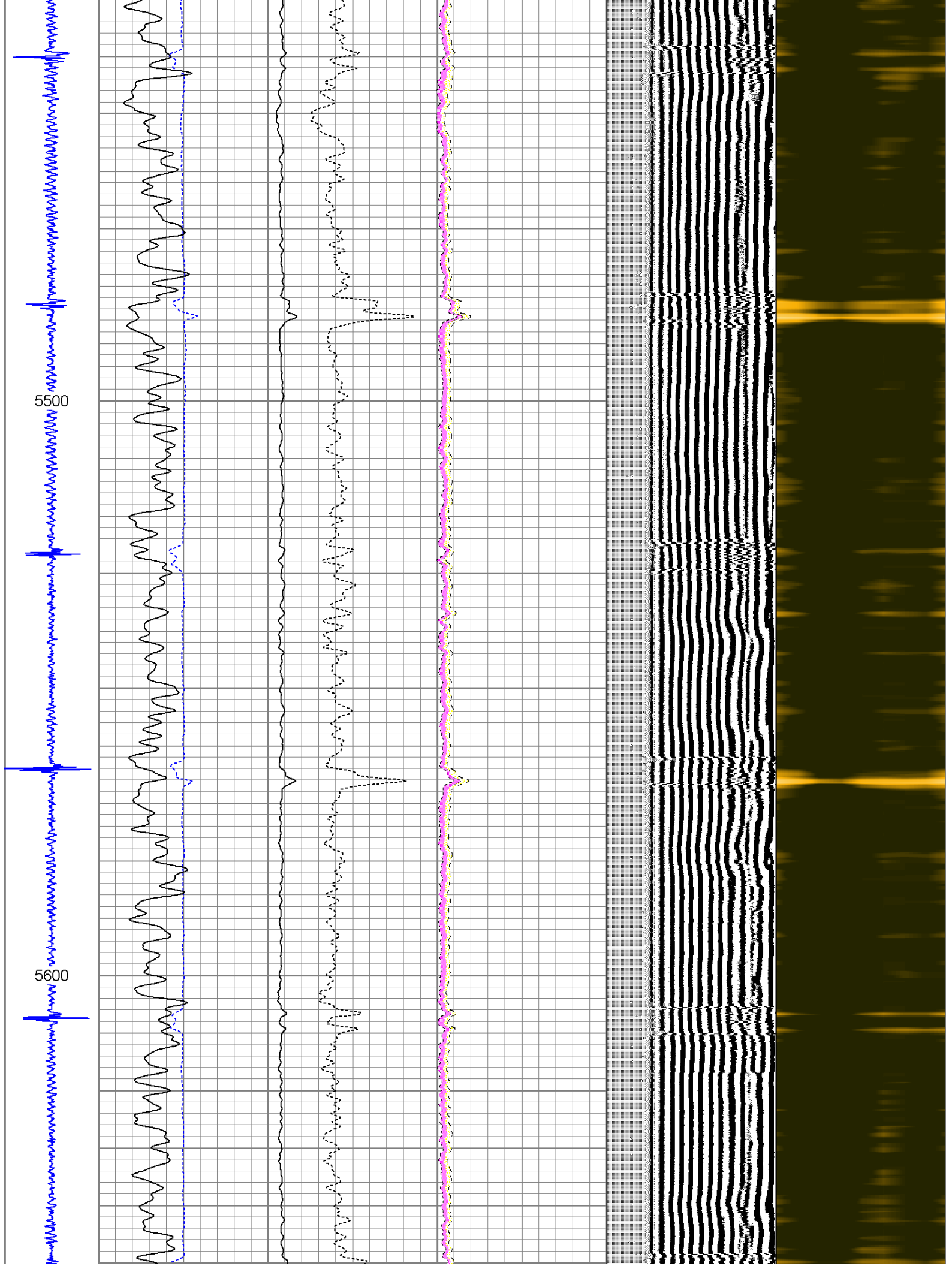


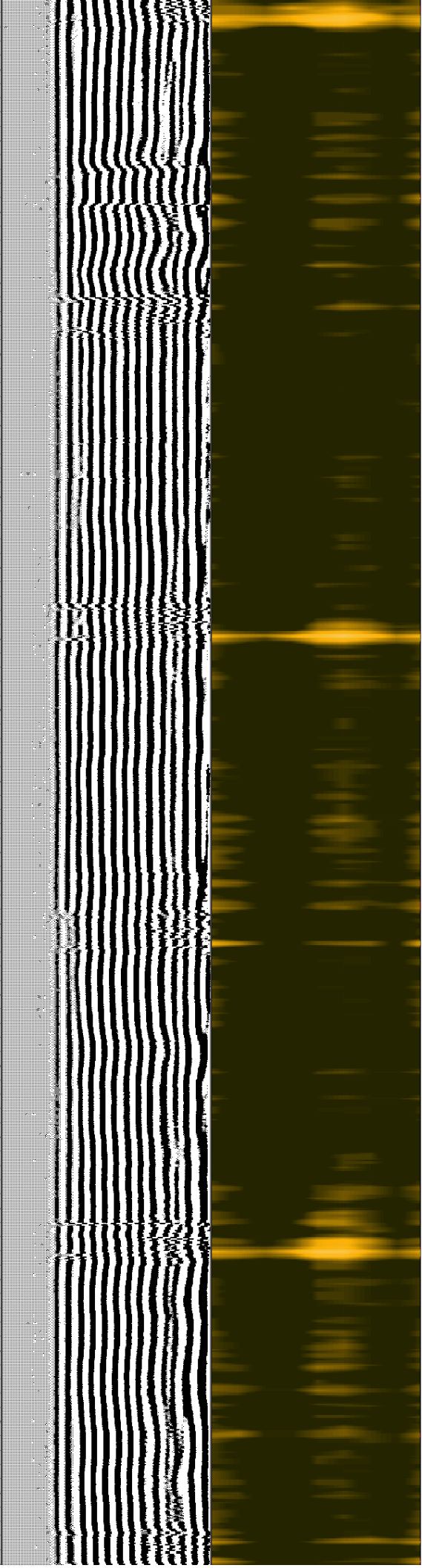
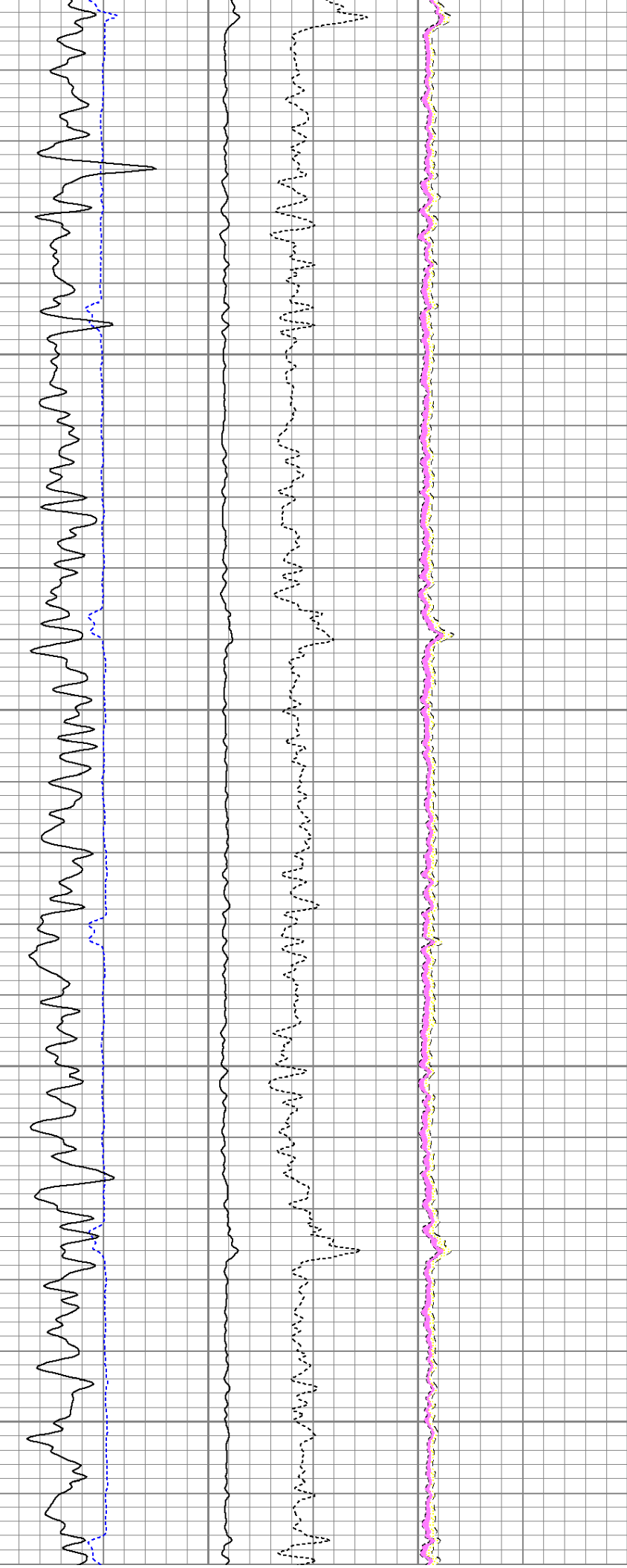
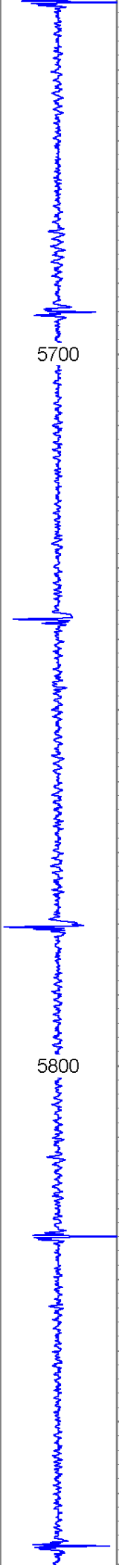


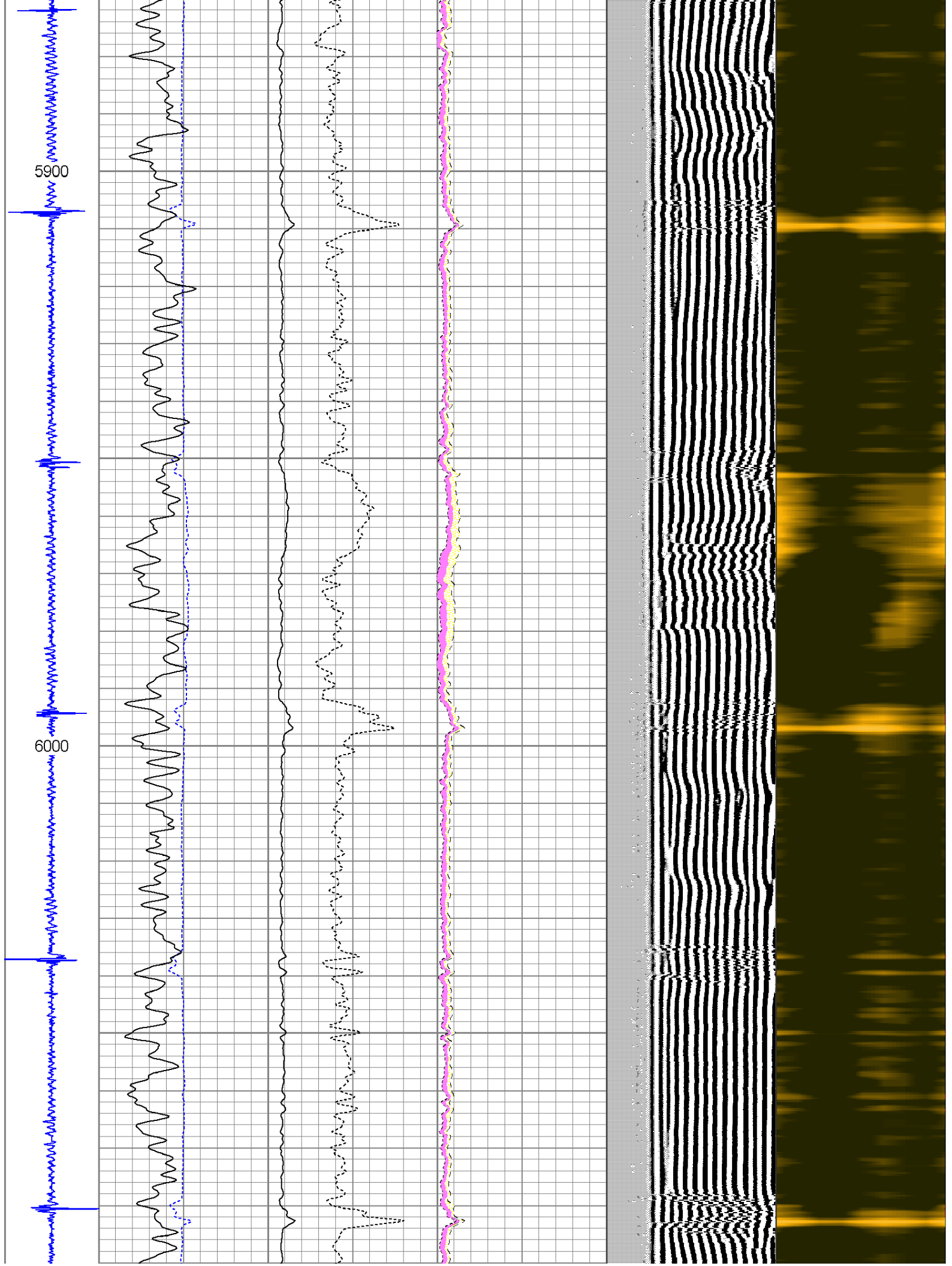














6100

6200

6300

