



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

Pioneer Energy Services

Company ANADARKO PETROLEUM

Well NRC 26C-4HZ  
Field WATTENBERG  
County WELD State CO

Company **ANADARKO PETROLEUM**  
Well **NRC 26C-4HZ**  
Field **WATTENBERG**  
County **WELD** State **CO**

Location: API # : 0512338996  
295' FSL 690' 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	17383		
Depth Logger	7865		
Bottom Log Interval	7865		
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	241		
Max. Wellhead Pressure	2600		
Wellhead Connection	7 1/16 10K FLANGE		
Estimated Cement Top	SURFACE		
Unit Number	01		
Wireline Size	9/32		
Location	FLMorgan		
Recorded By	C.NELSON		
Witnessed By	MR. Jack 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. # 2-204592

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

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			PTS275	2.83	2.75	
WVF3FT	11.63		RBT-Probe (4.5040904) Prototype Probe Radii Bond Tool with Digital Telemetry	8.88	2.75	90.00
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

## Calibration Report

Database File: 05123389980000\_nrc\_26c\_4hz\_rbl.db  
 Dataset Pathname: pass2  
 Dataset Creation: Sun May 18 11:56:01 2014 by Log 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: 160.792 ft

Master Calibration, performed Sun May 18 11:33:45 2014:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.019	0.751	1.000	62.165	83.551	-0.583
CAL	0.015	0.810				
5'	0.015	0.721	1.000	62.165	86.593	-0.270
SUM						
S1	0.020	0.693	0.000	100.000	148.605	-2.980
S2	0.019	0.599	0.000	100.000	172.401	-3.319
S3	0.021	0.612	0.000	100.000	169.085	-3.490
S4	0.018	0.684	0.000	100.000	150.100	-2.706
S5	0.024	0.784	0.000	100.000	131.590	-3.177
S6	0.022	0.905	0.000	100.000	113.270	-2.487
S7	0.022	0.967	0.000	100.000	105.812	-2.309
S8	0.020	0.873	0.000	100.000	117.277	-2.382


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	0.015	0.810	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	

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

# Free Pipe Pass

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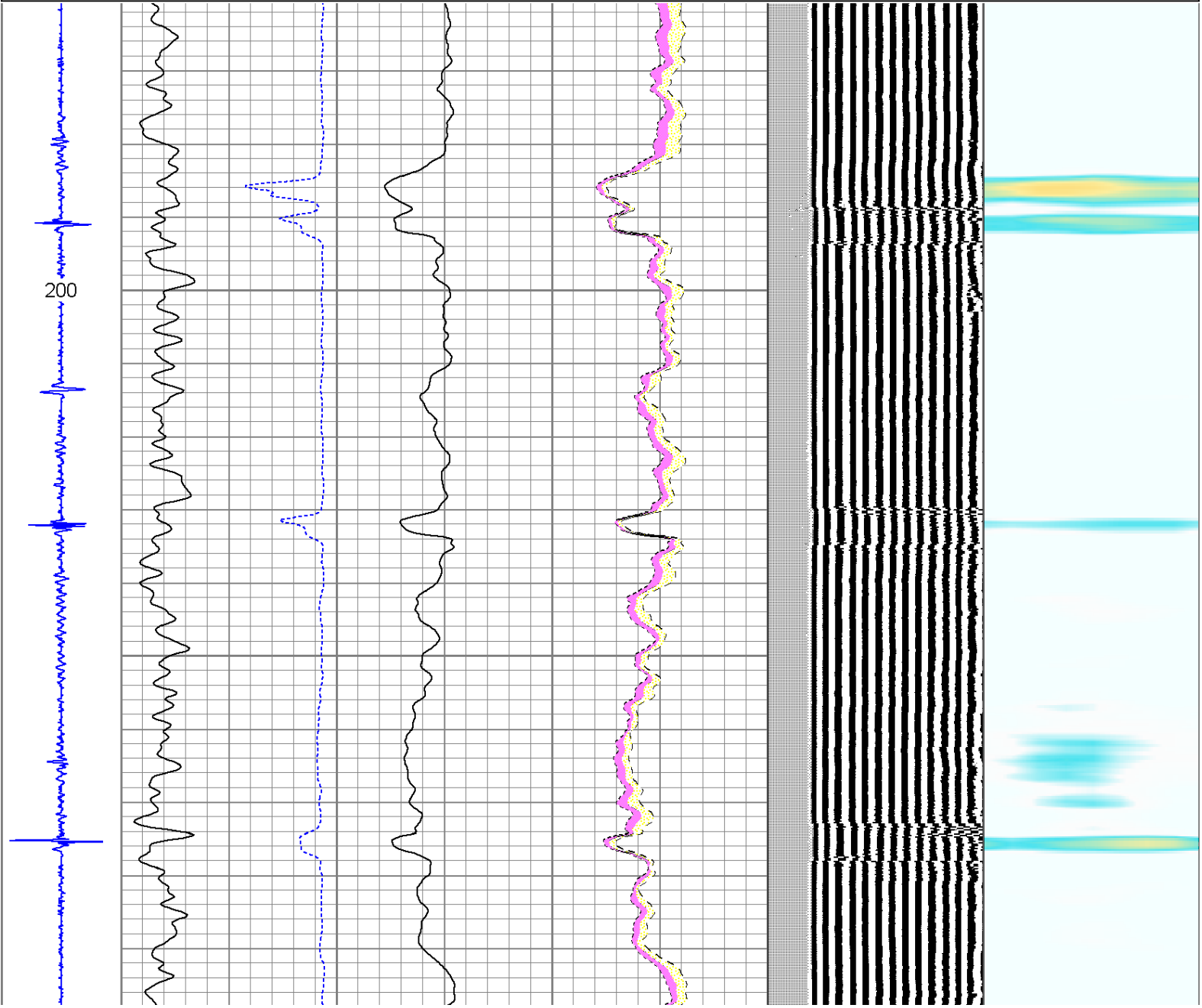
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Presentation Format: scbl02

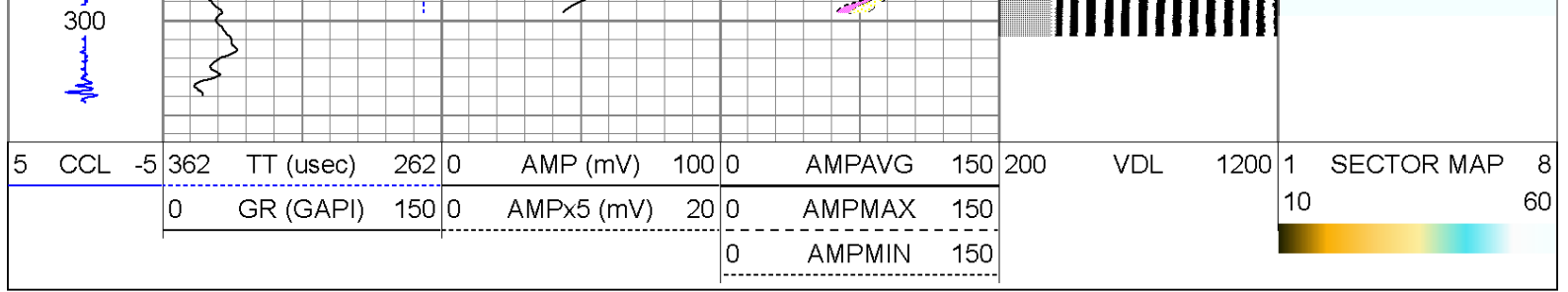
Dataset Creation: Sun May 18 11:33:57 2014 by Log 7.0 B1


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						







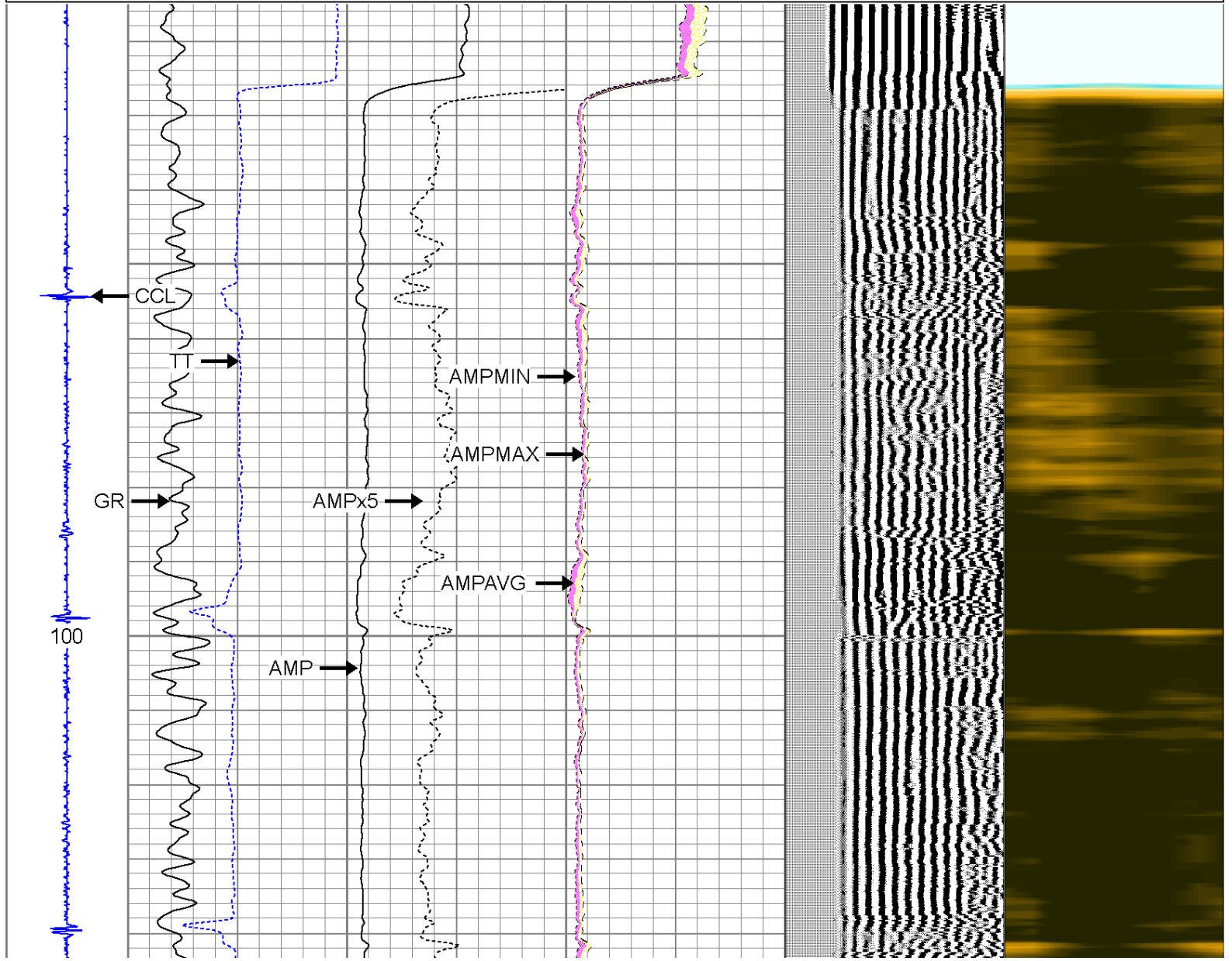
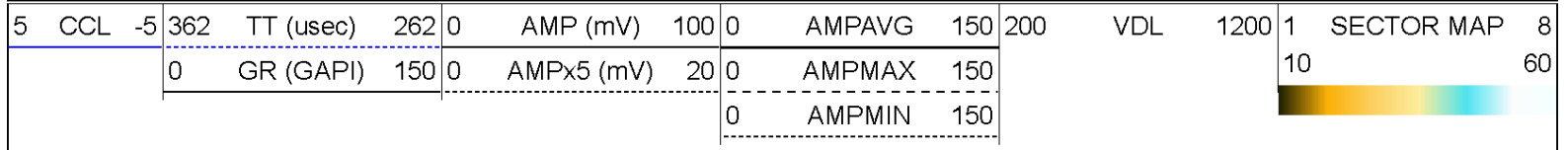


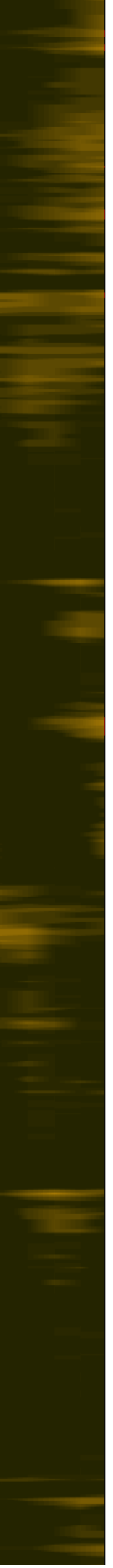
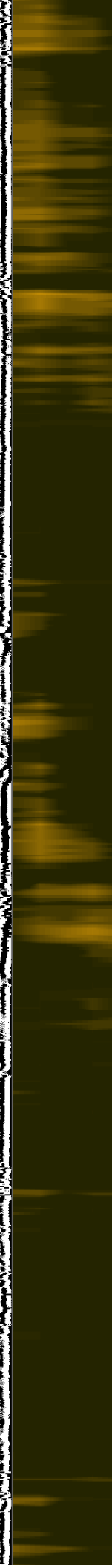
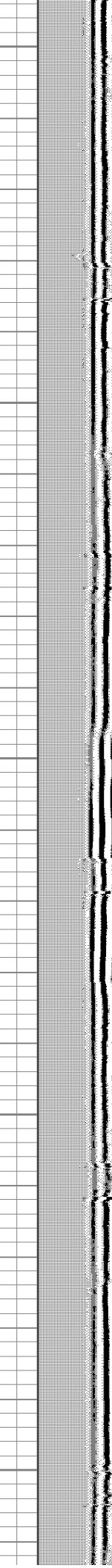
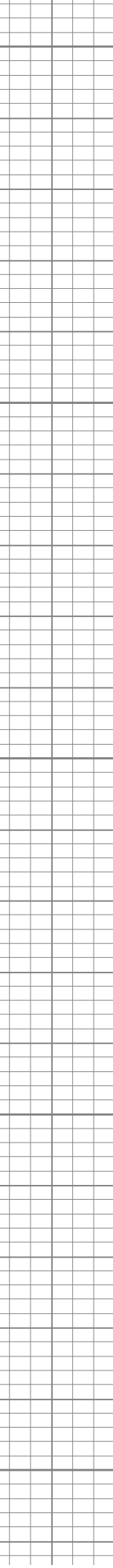
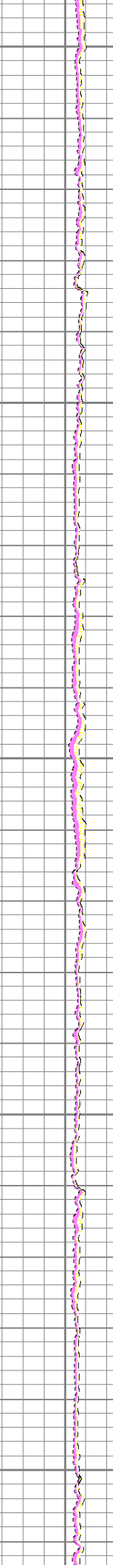
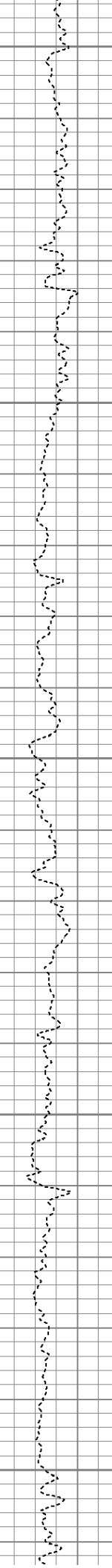
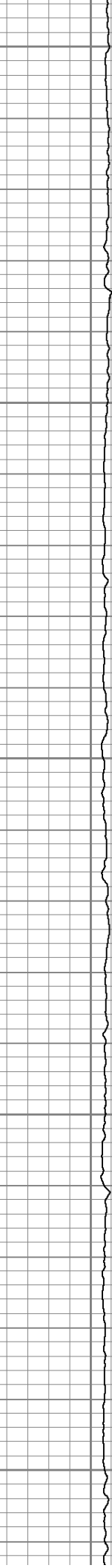
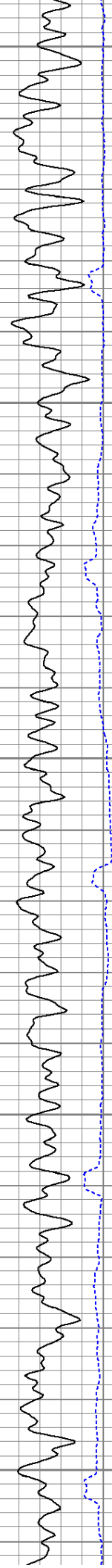
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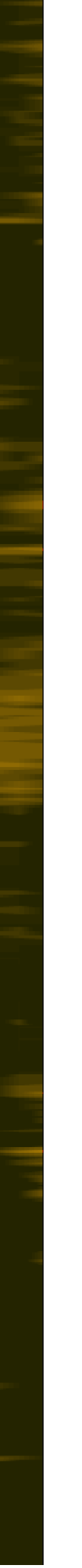
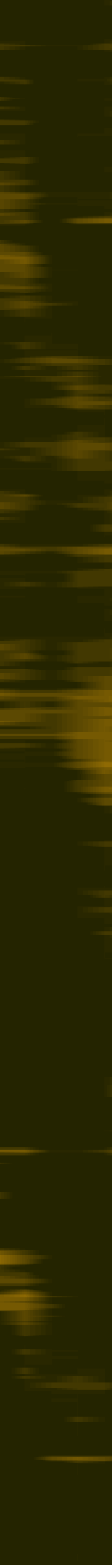
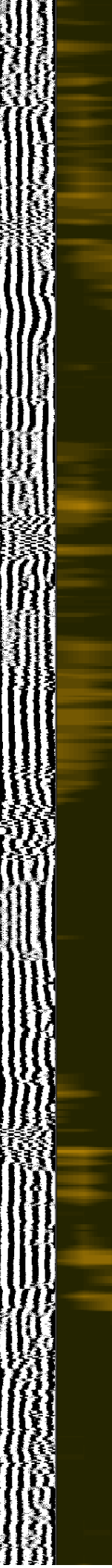
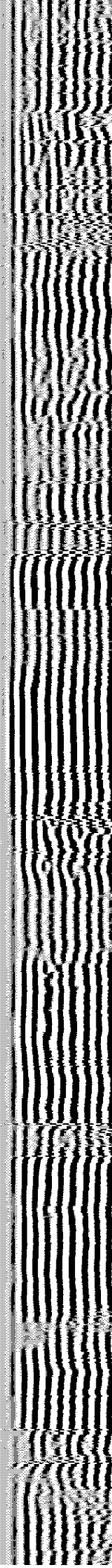
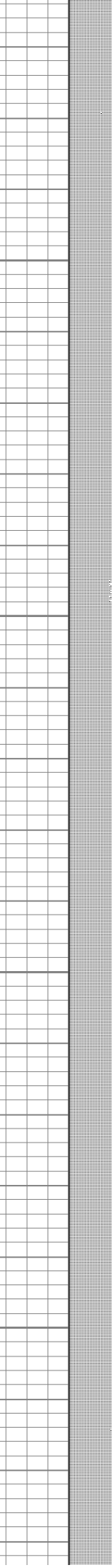
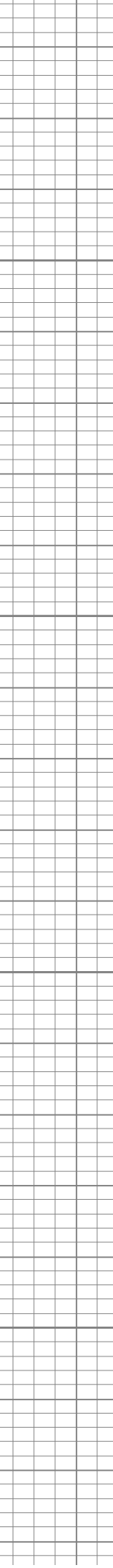
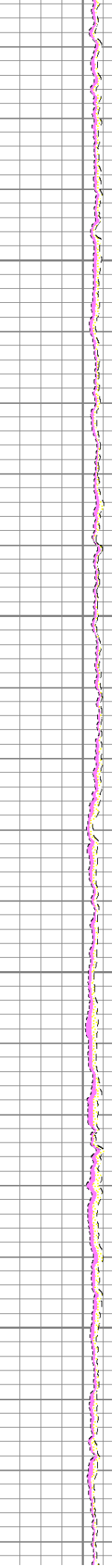
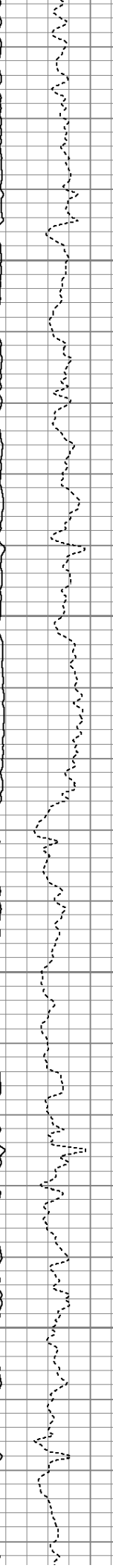
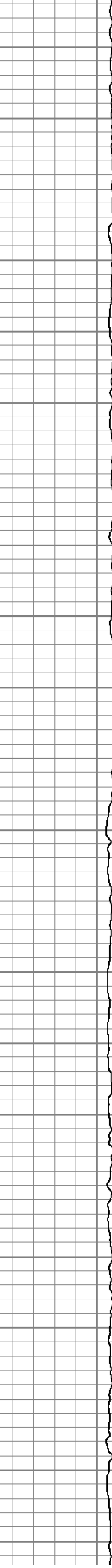
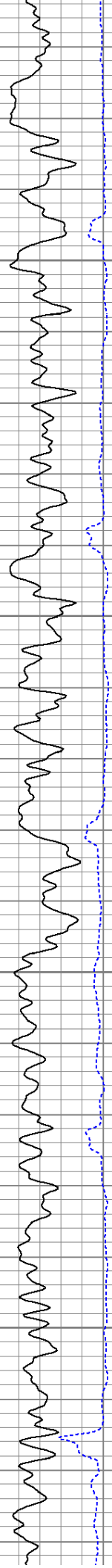
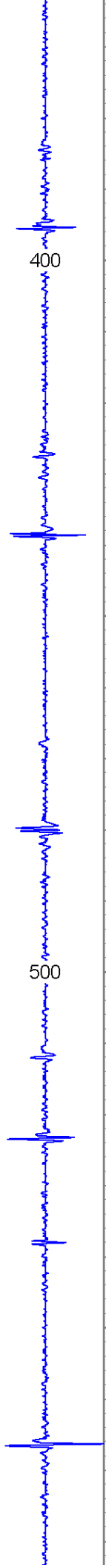
# MAIN LOG

## 2600 PSI APPLIED AT SURFACE

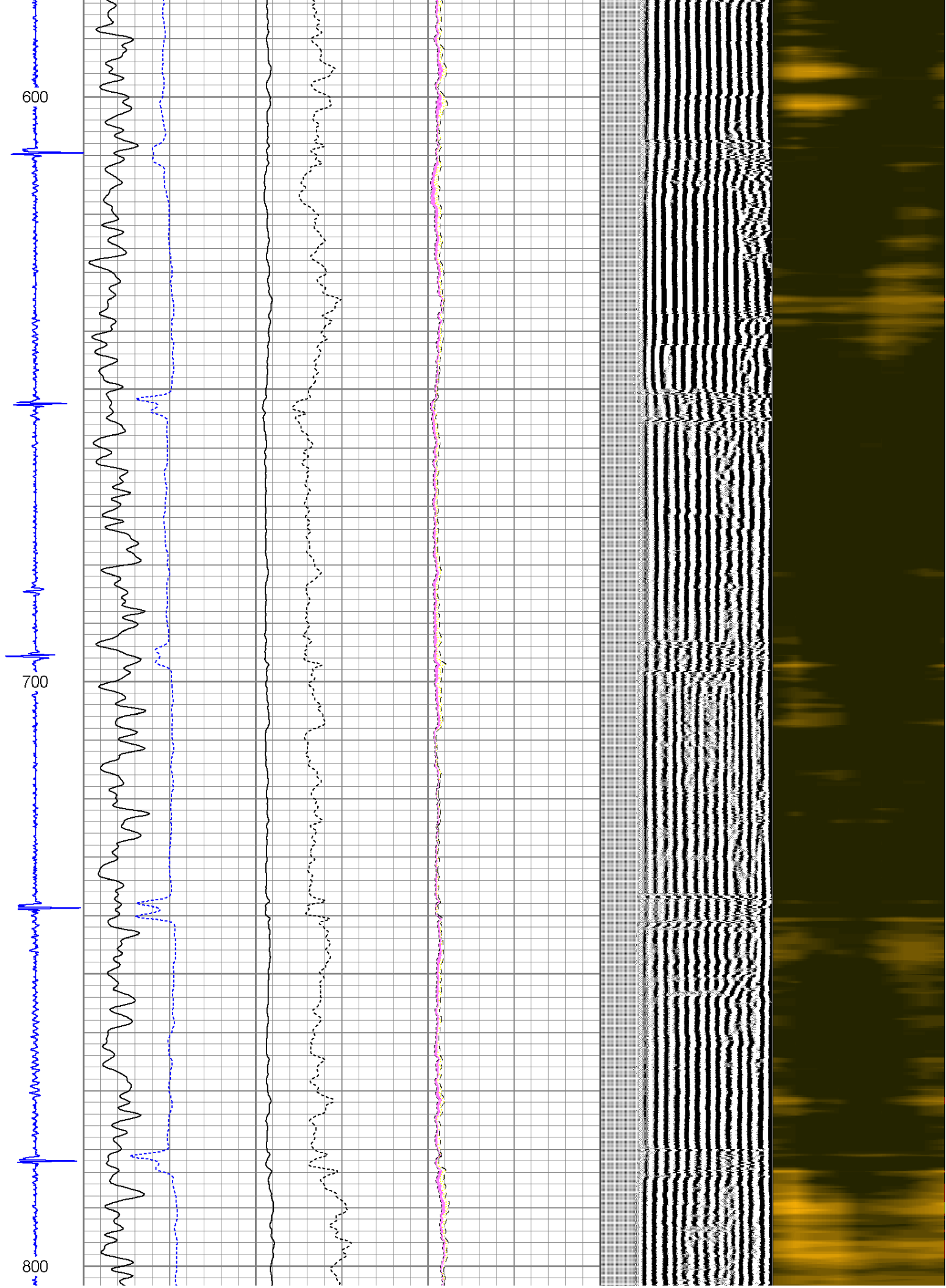
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Dataset Pathname: pass2  
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Dataset Creation: Sun May 18 11:56:01 2014 by Log 7.0 B1  
Charted by: Depth in Feet scaled 1:240

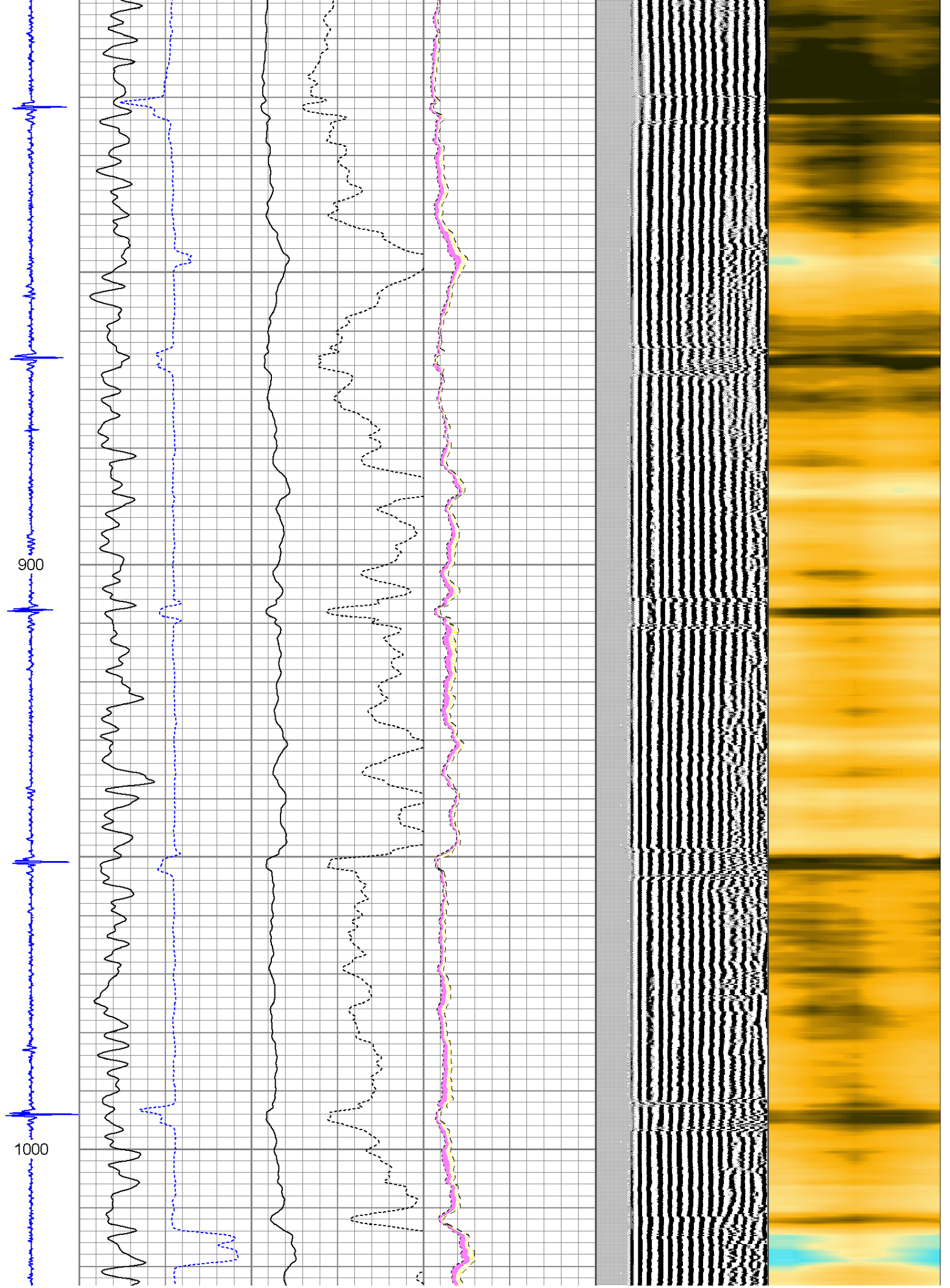








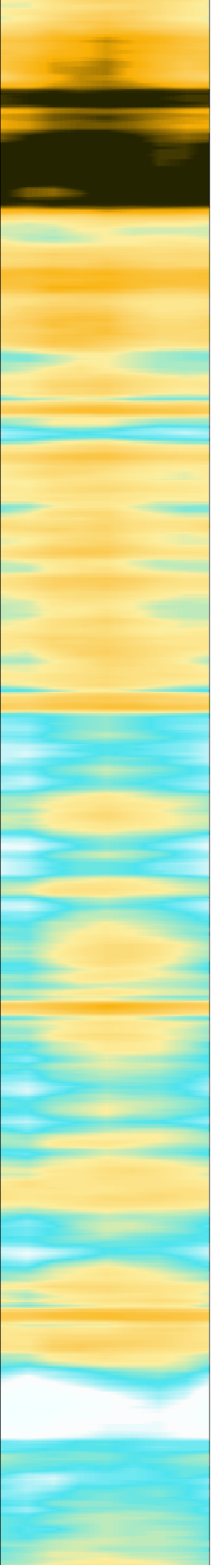
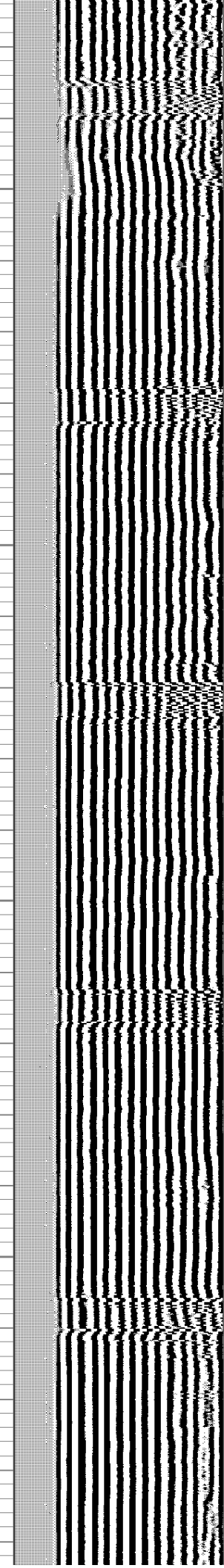
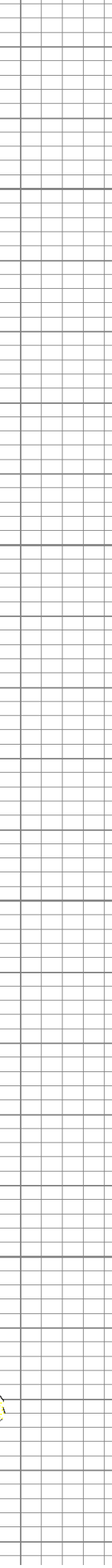
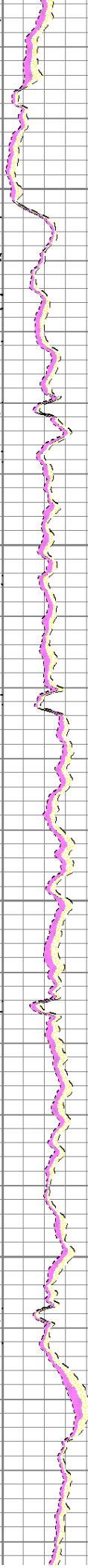
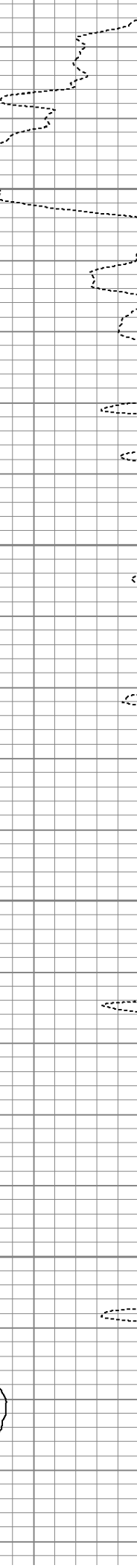
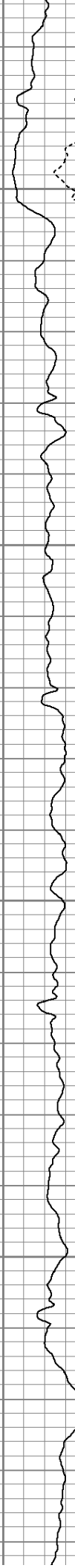
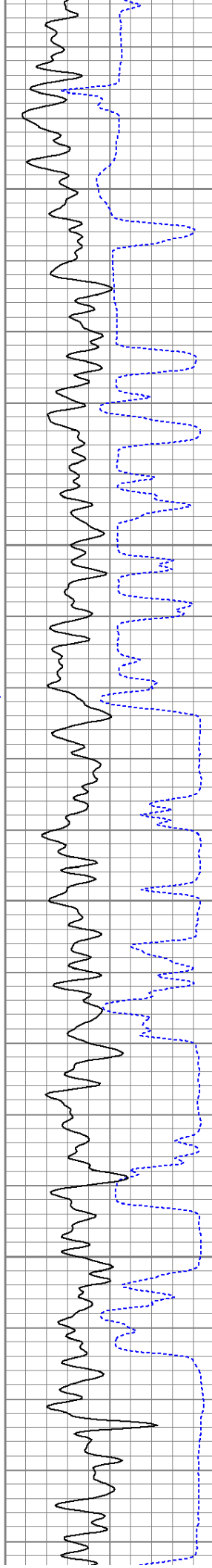




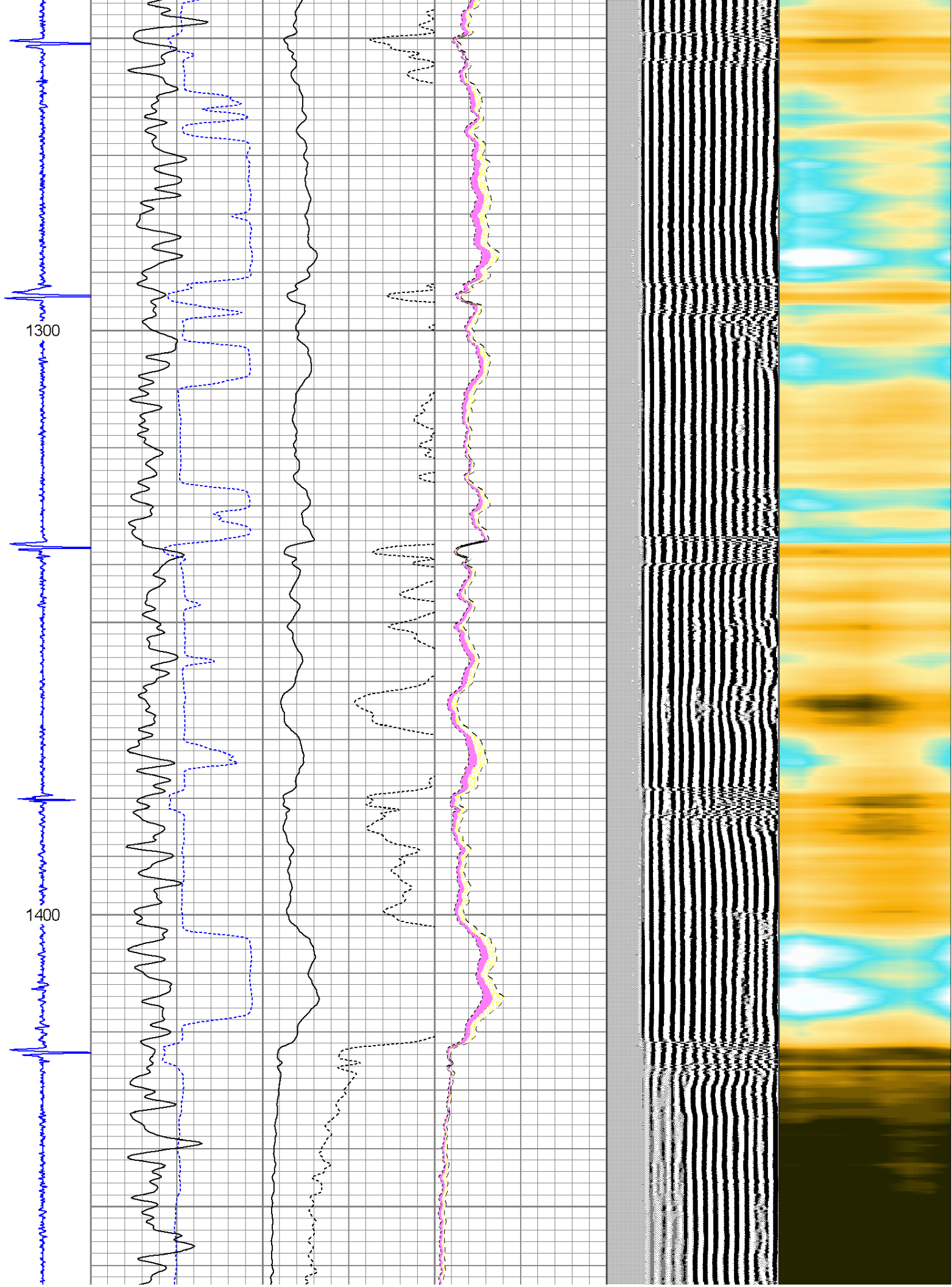


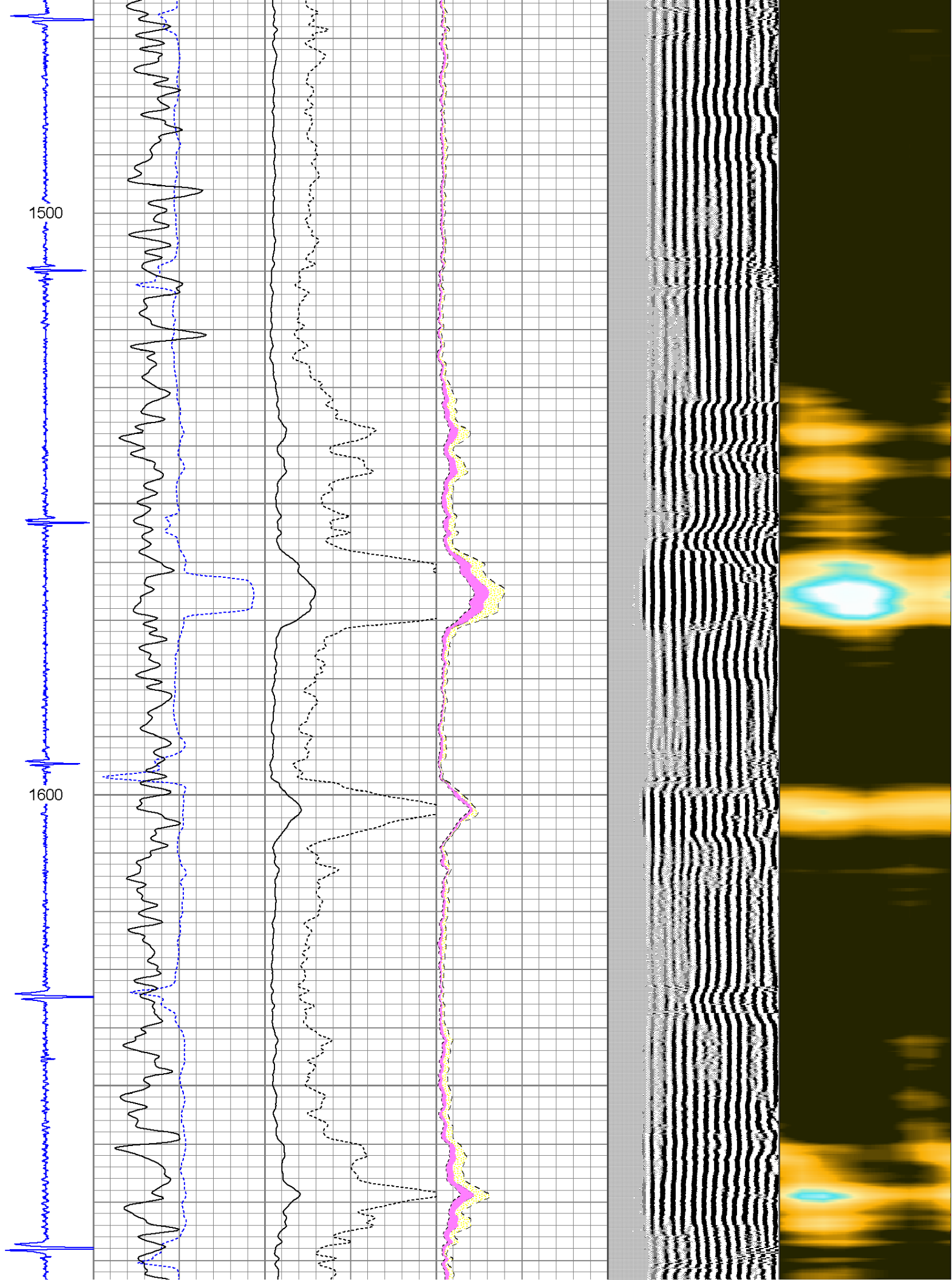
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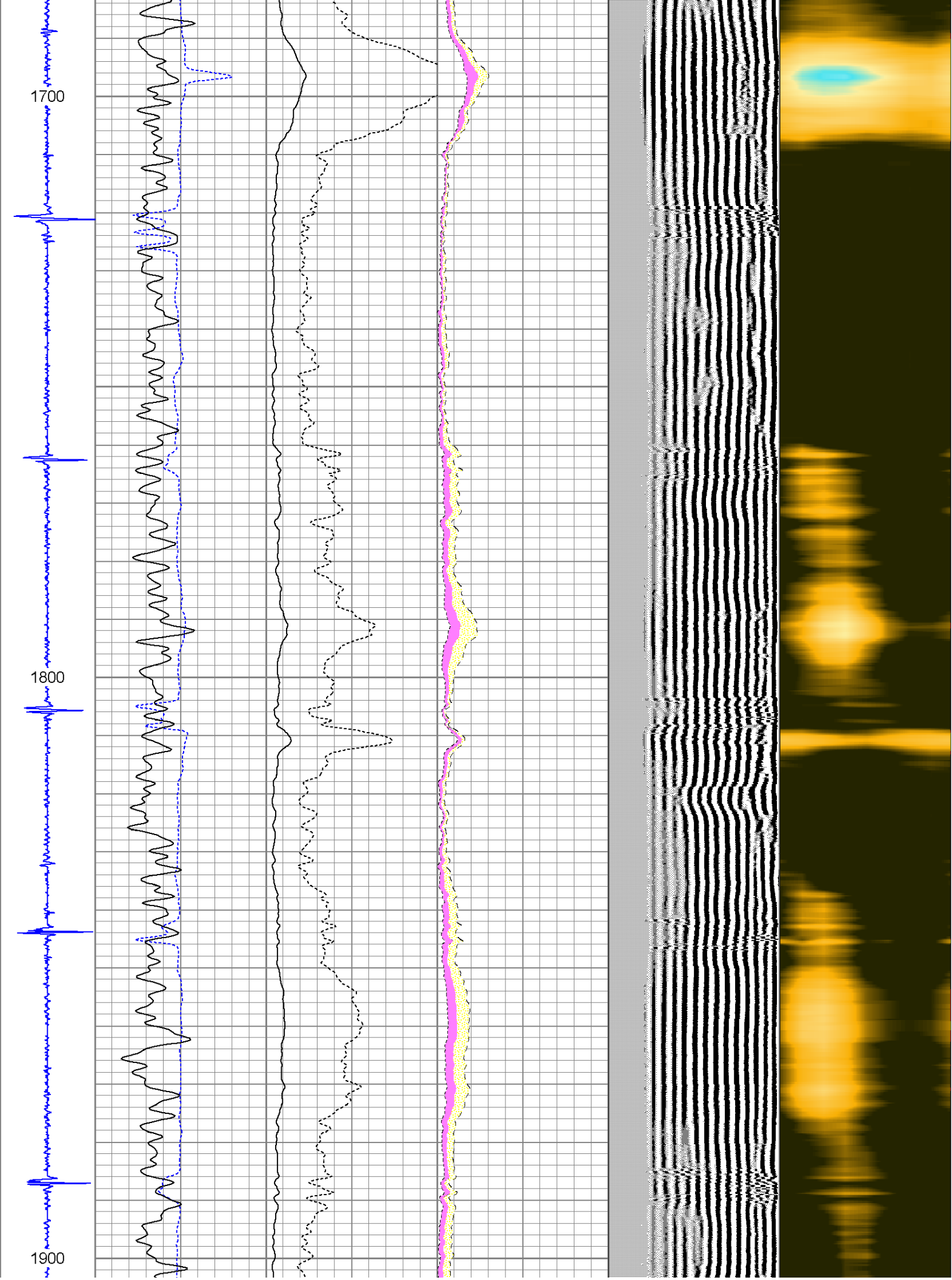


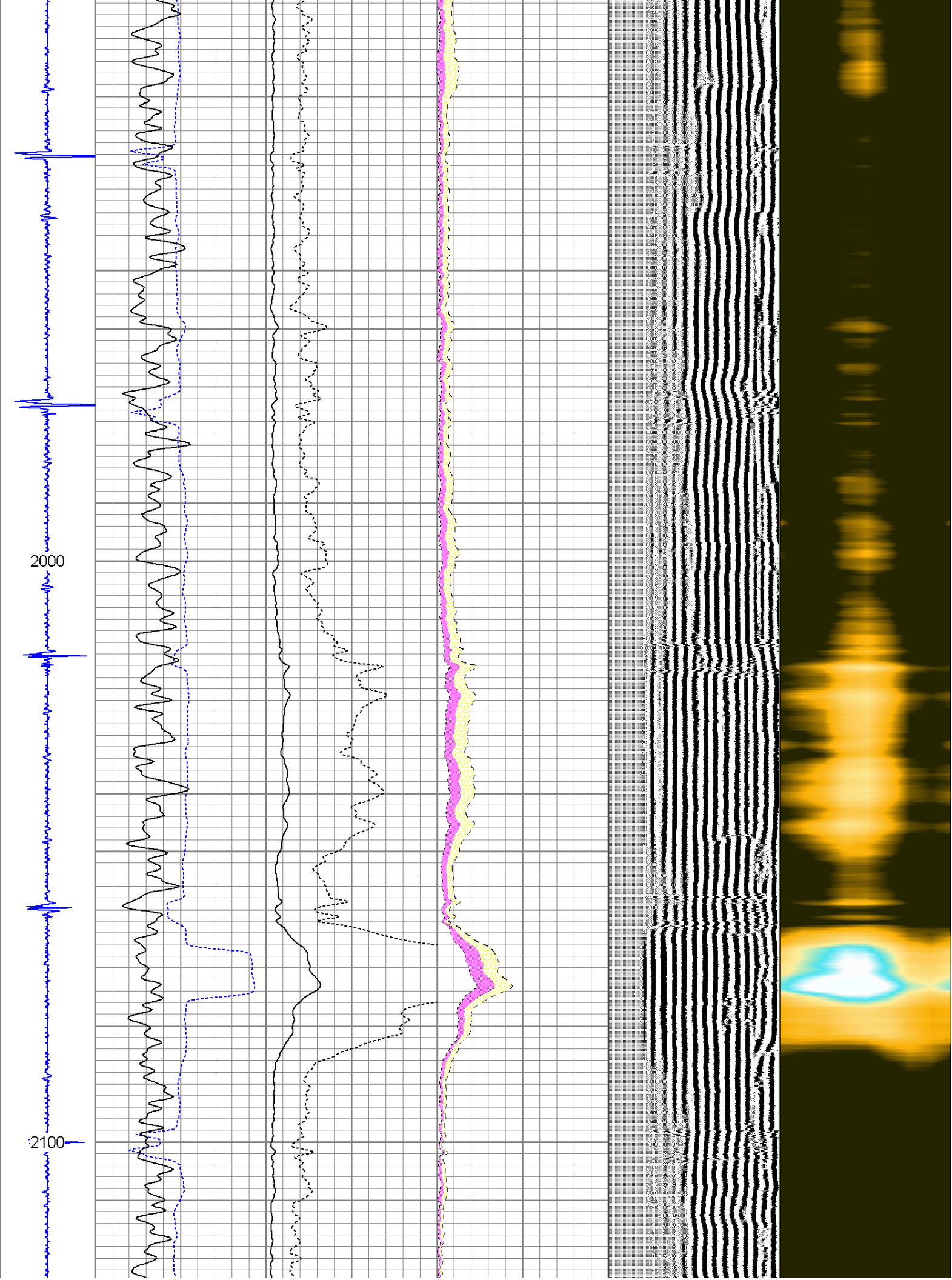










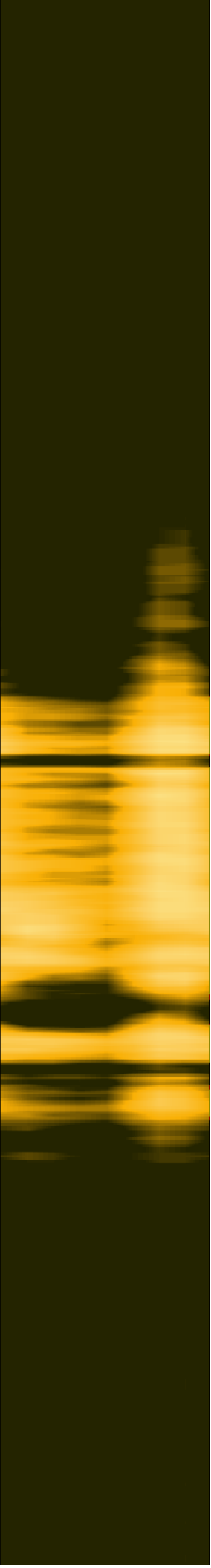
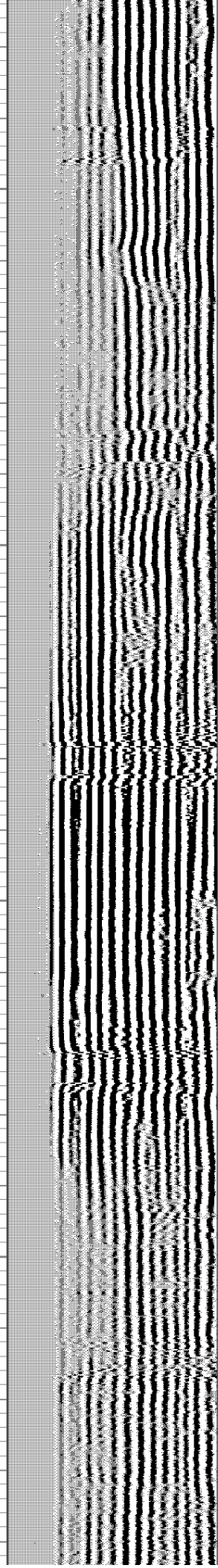
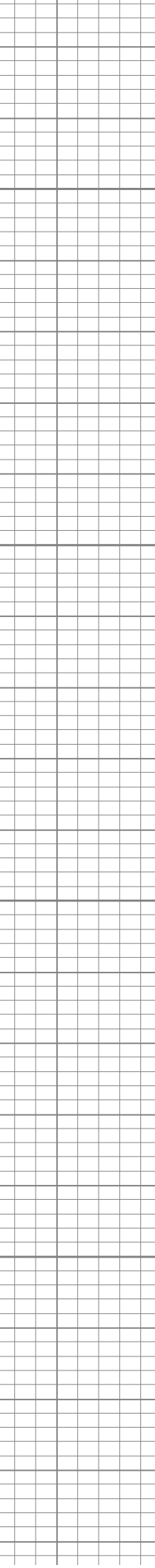
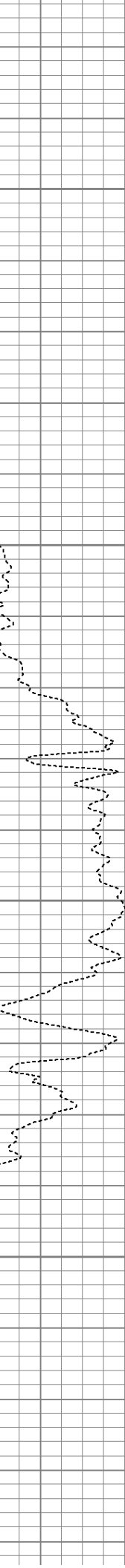
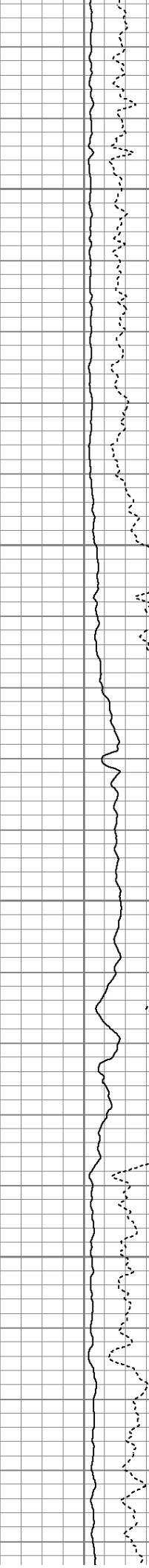
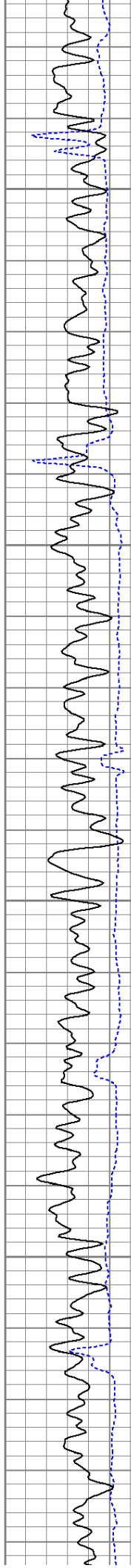


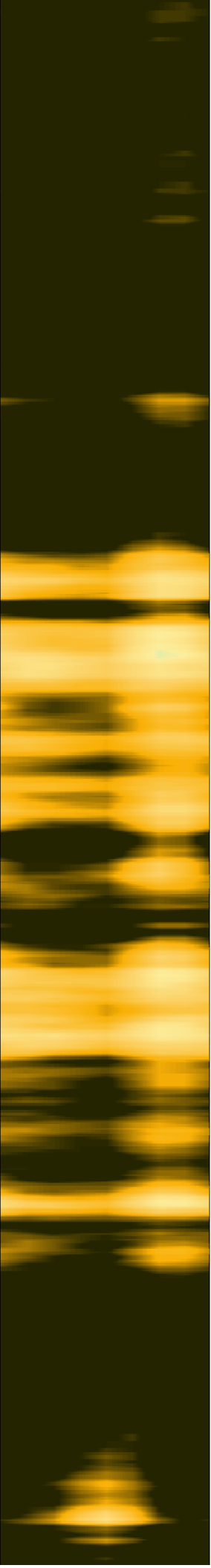
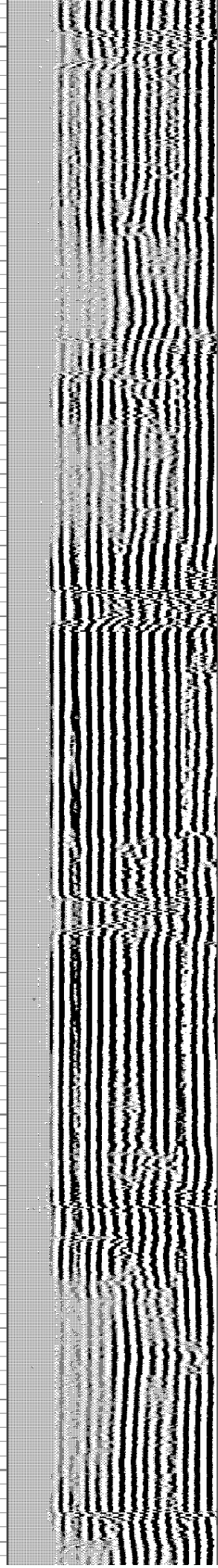
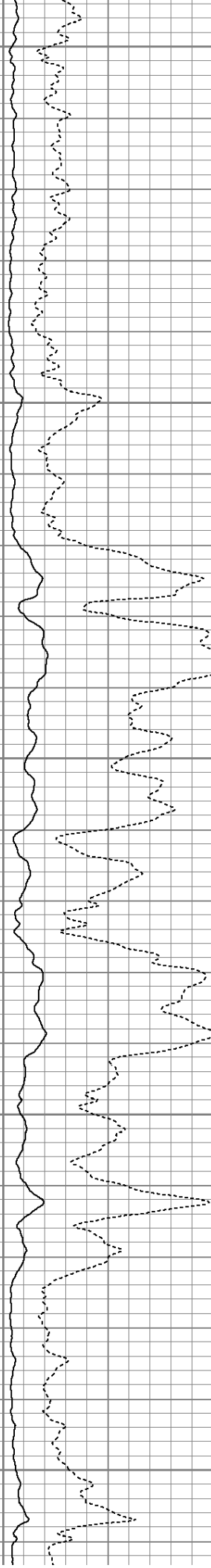
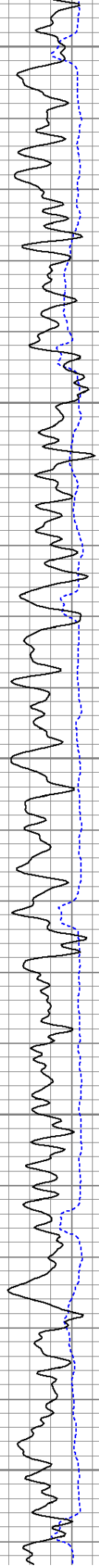
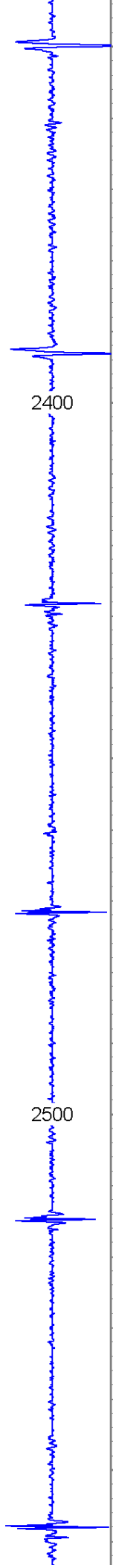




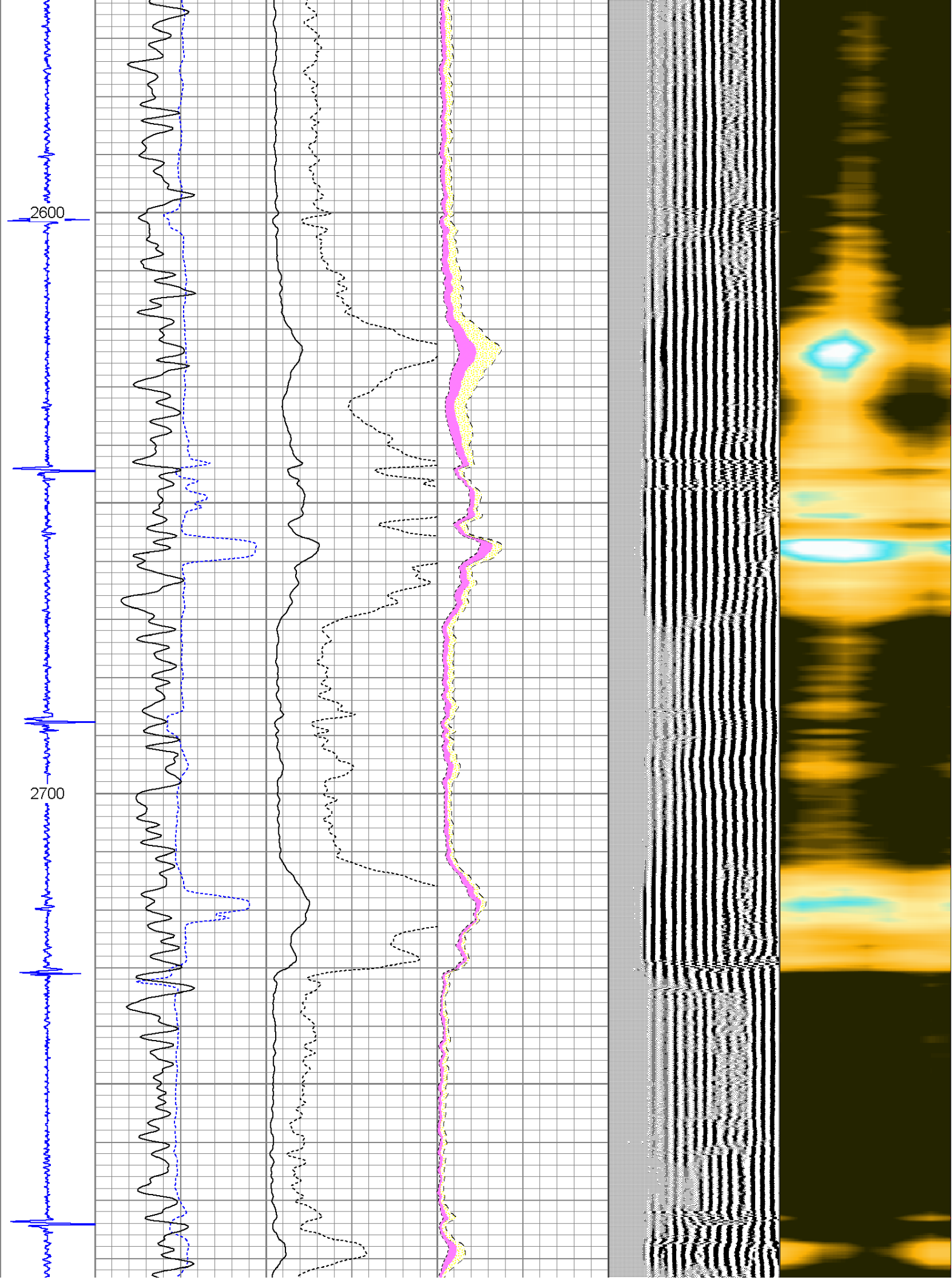
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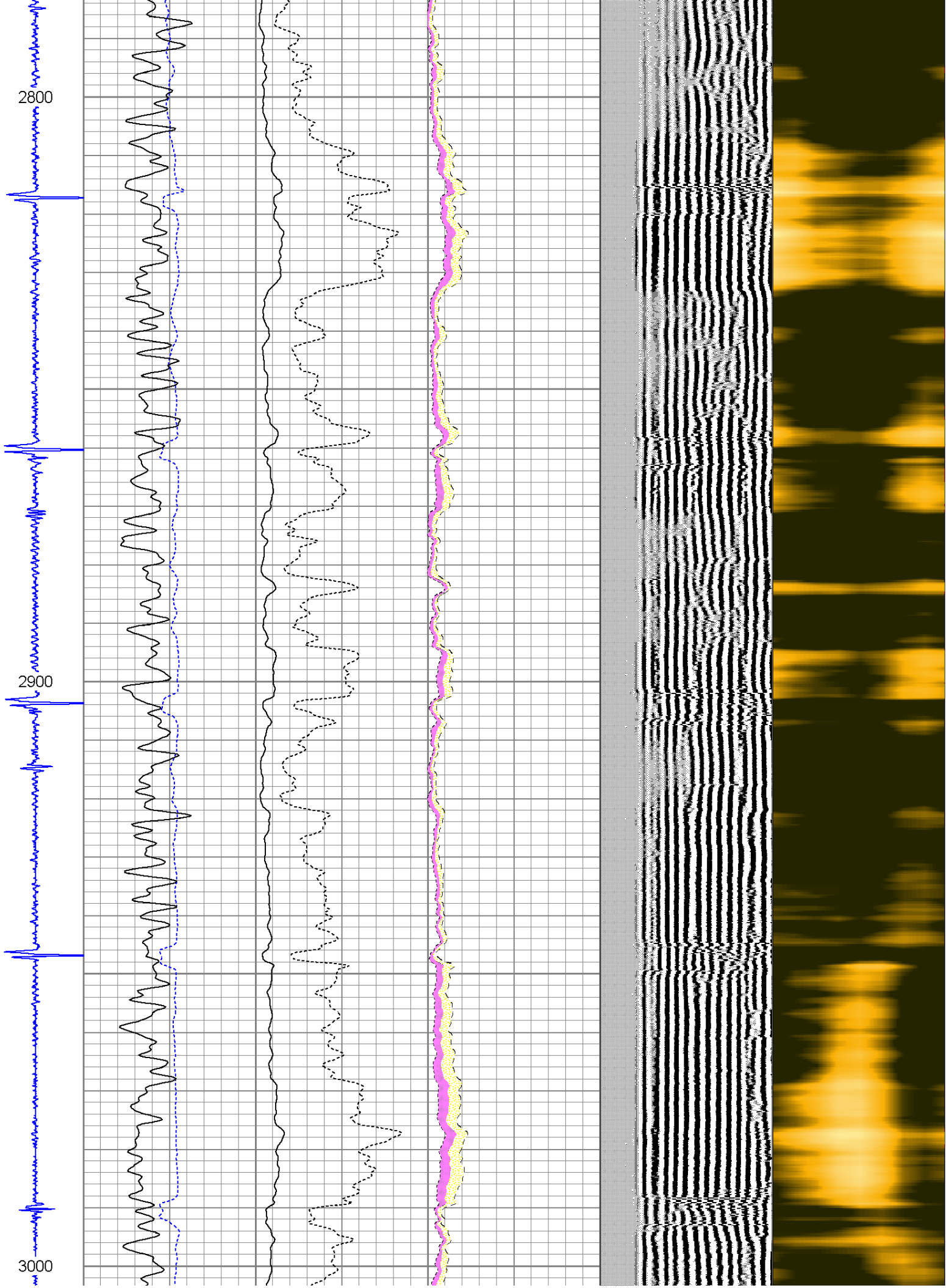
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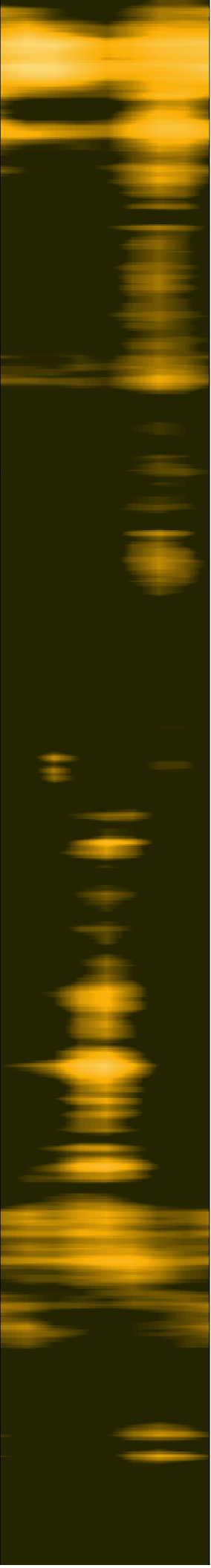
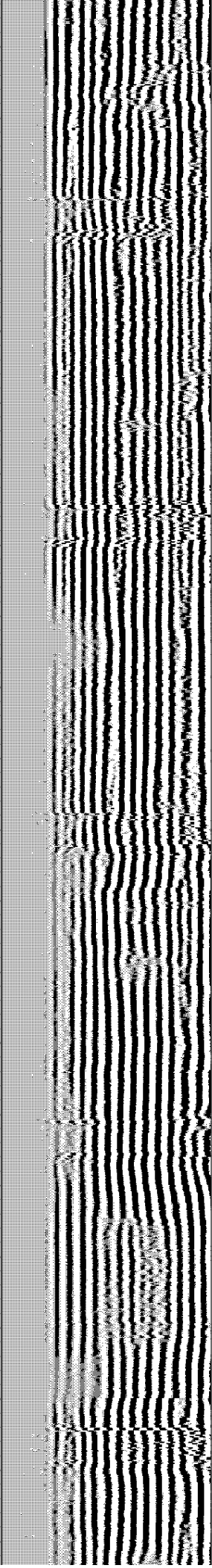
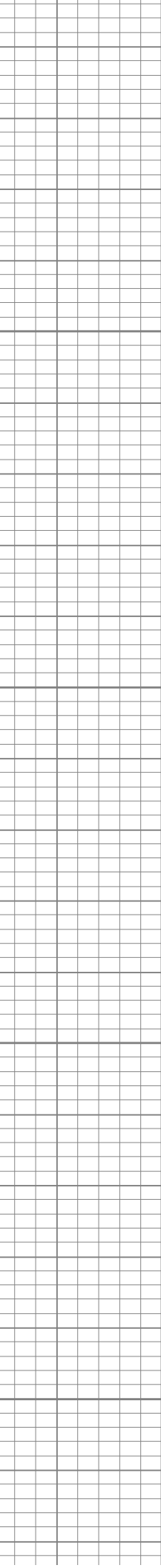
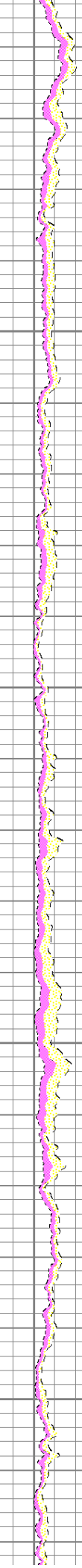
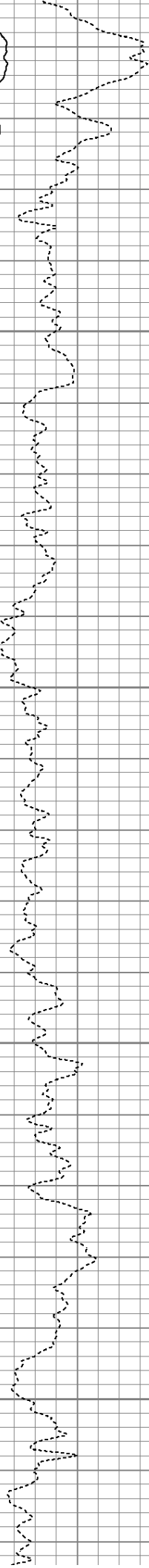
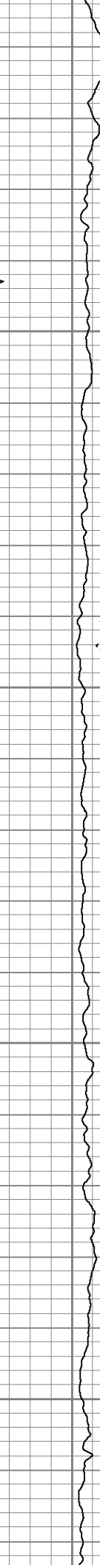
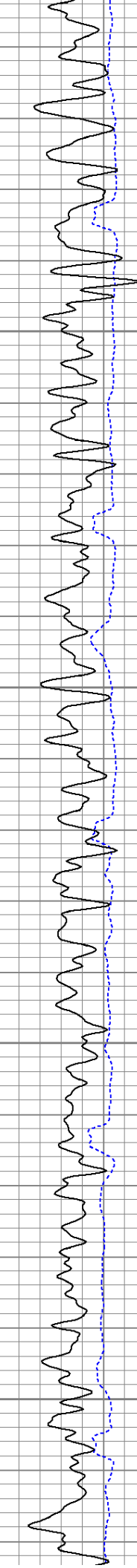
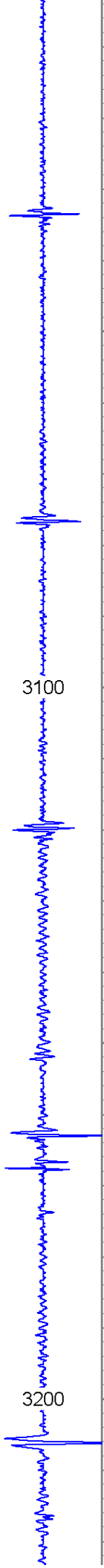


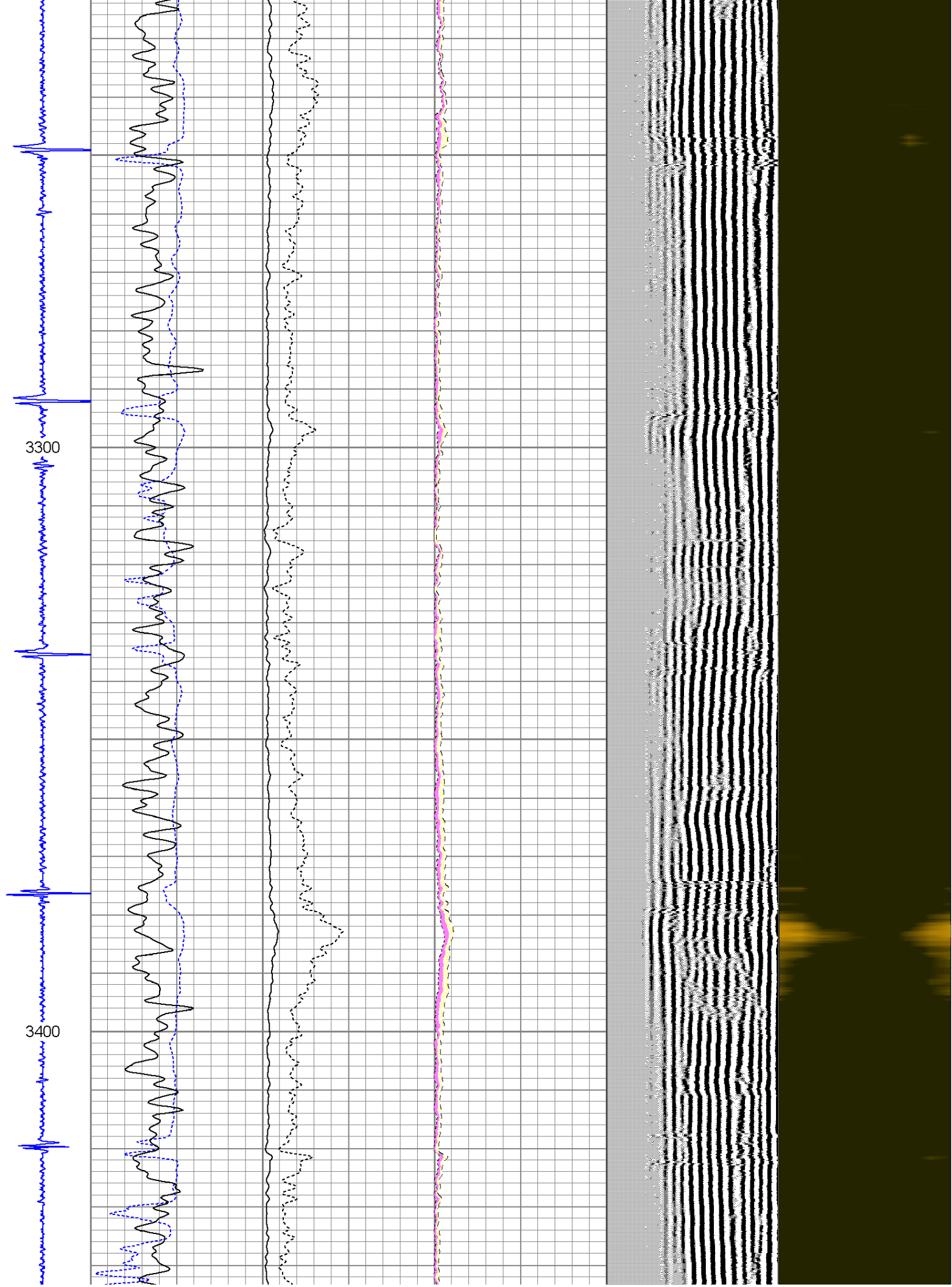




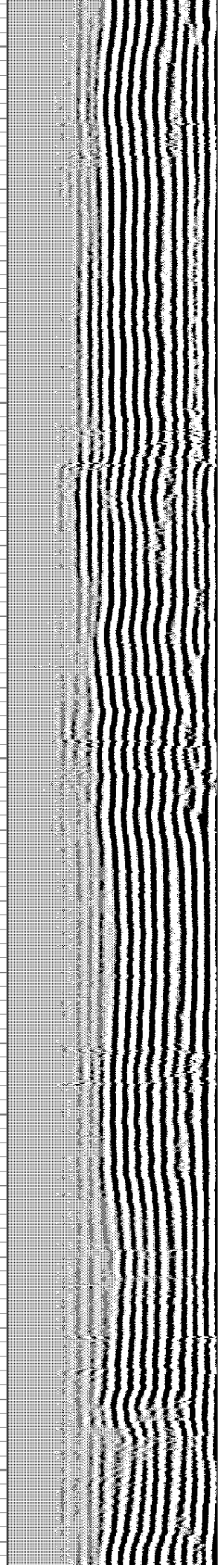
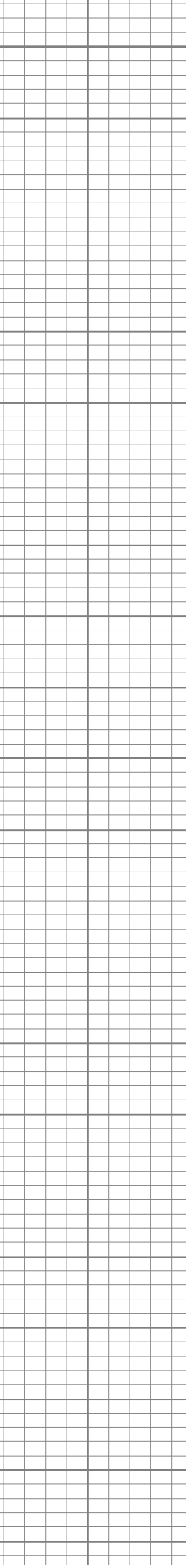
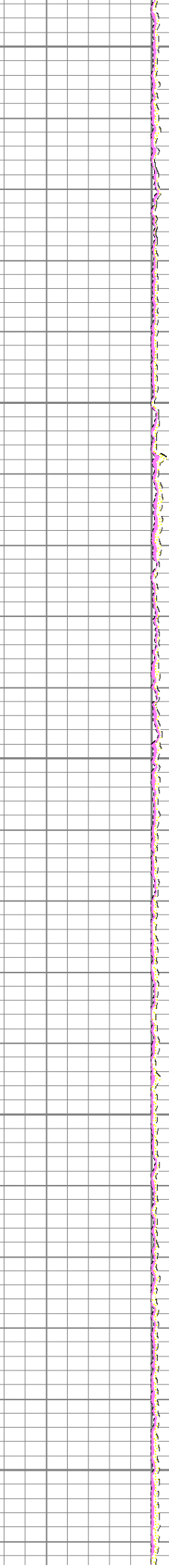
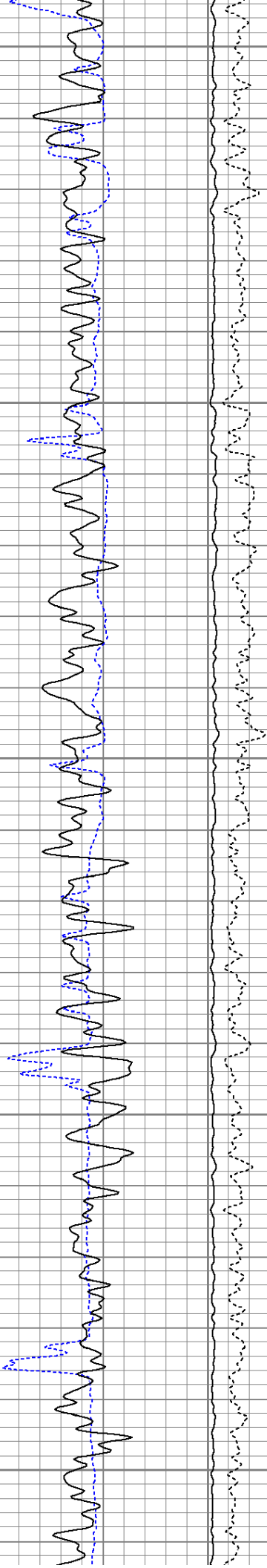
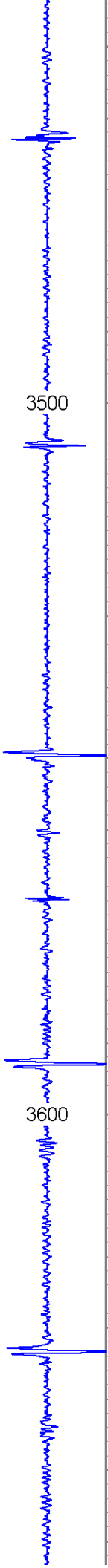


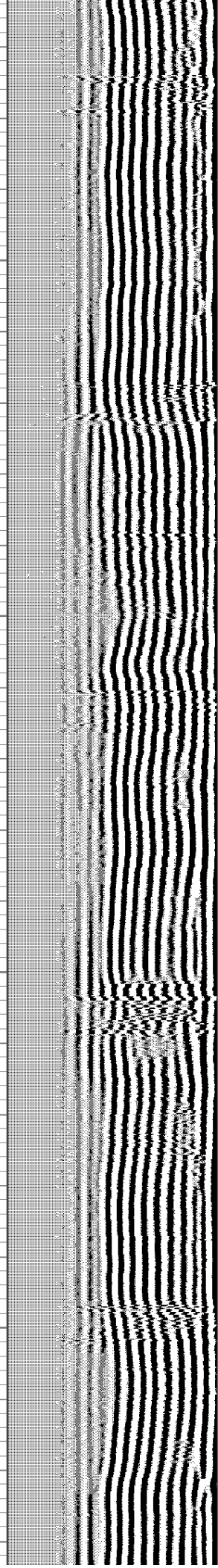
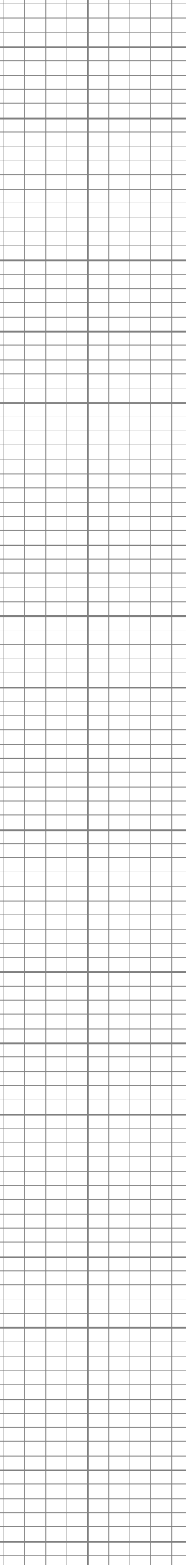
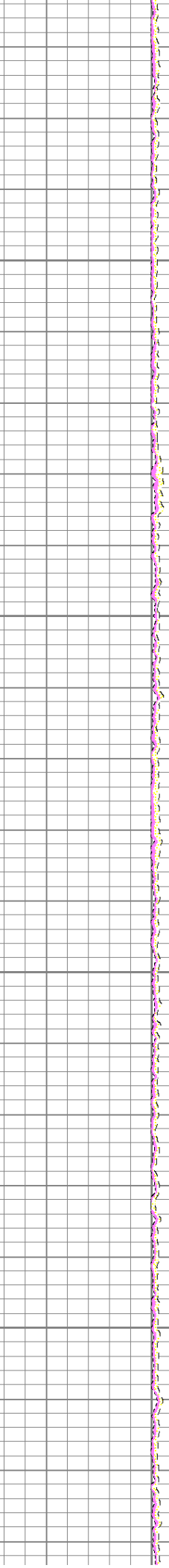
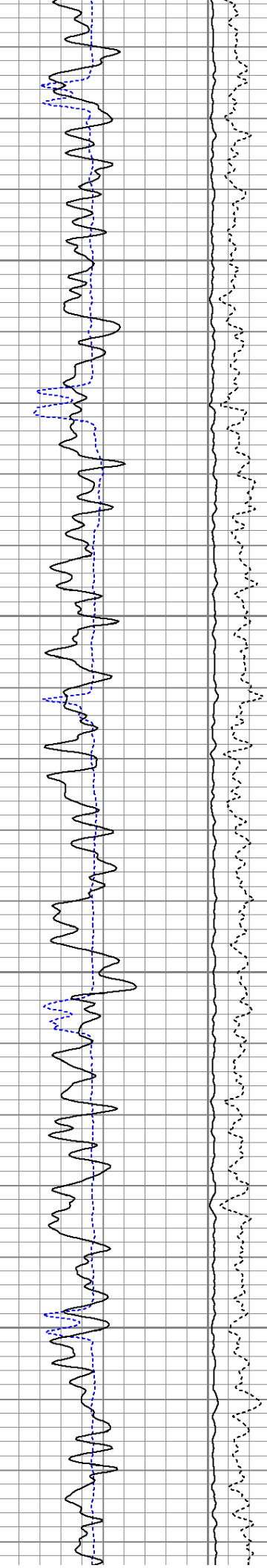


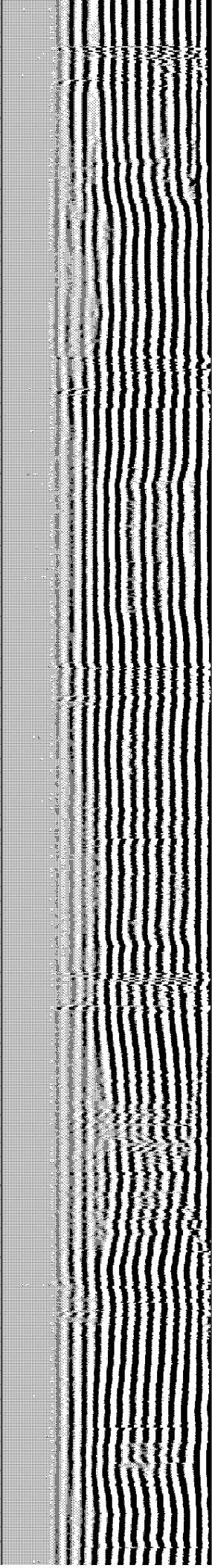
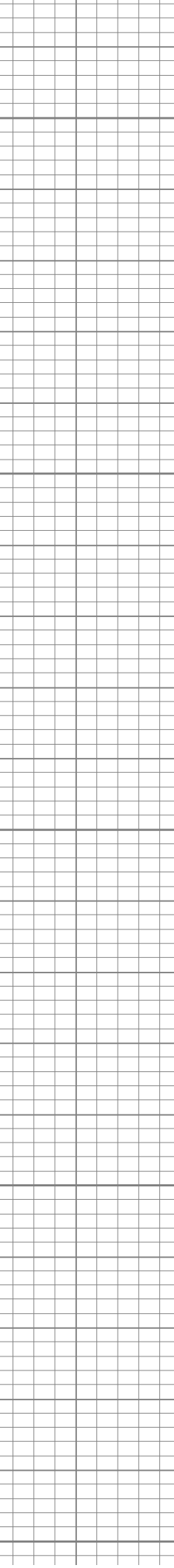
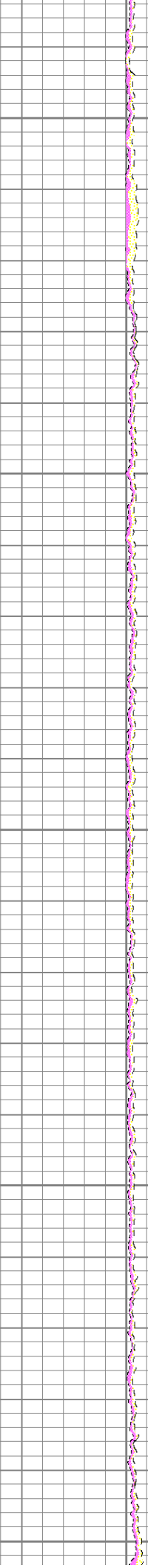
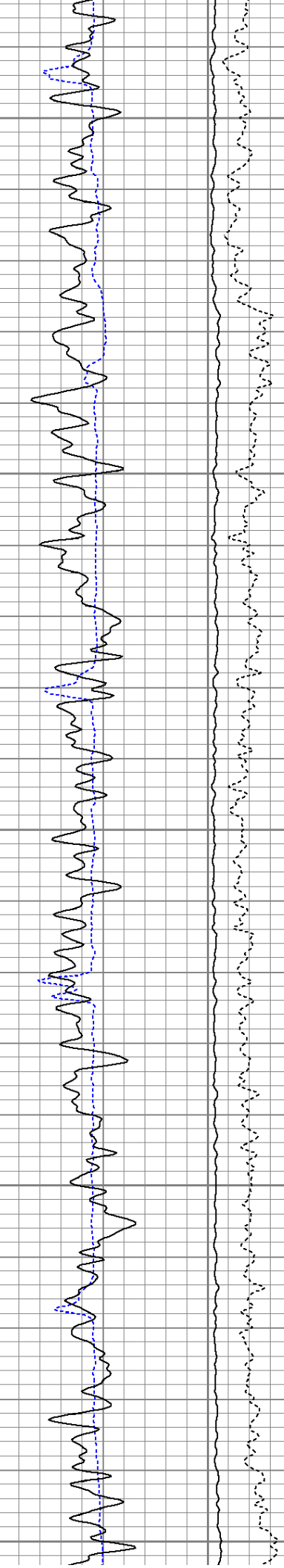










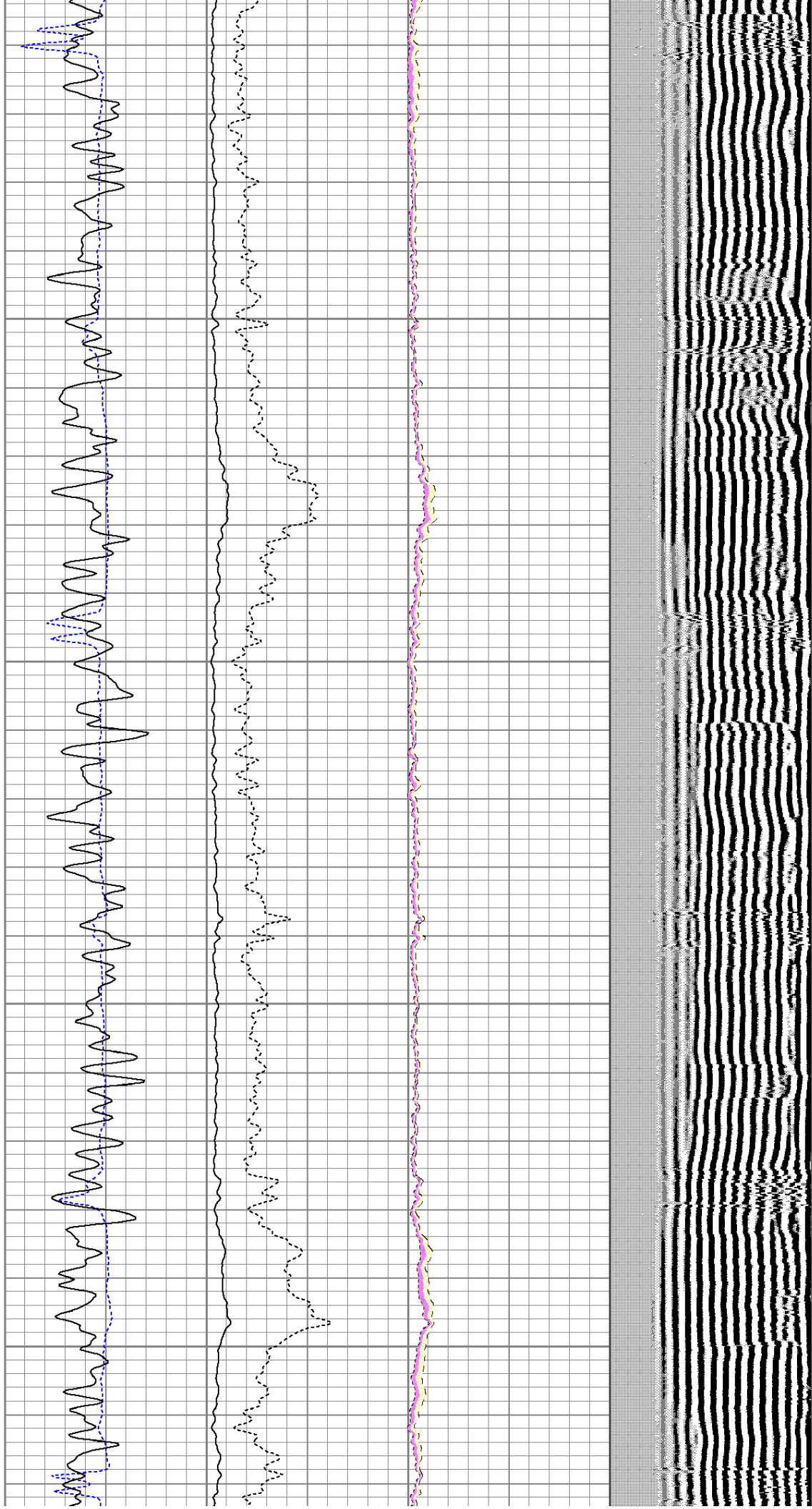


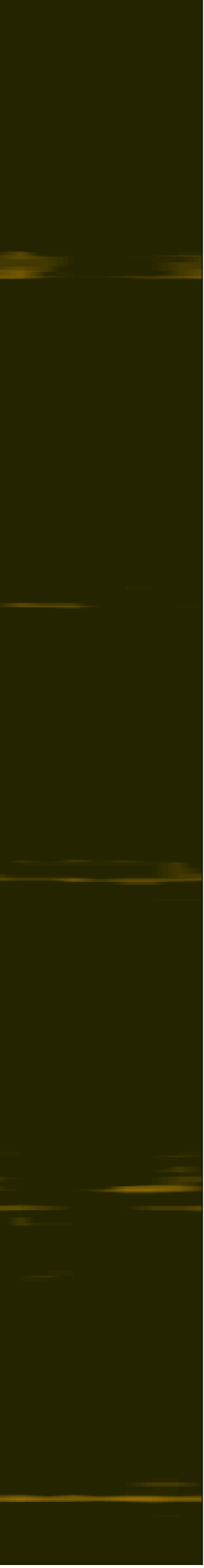
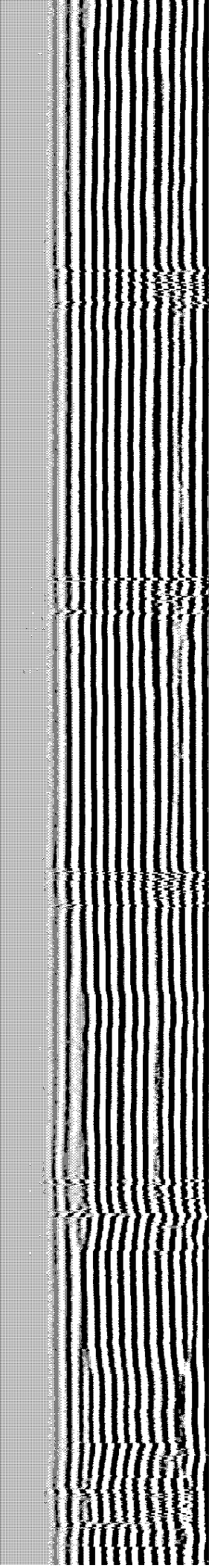
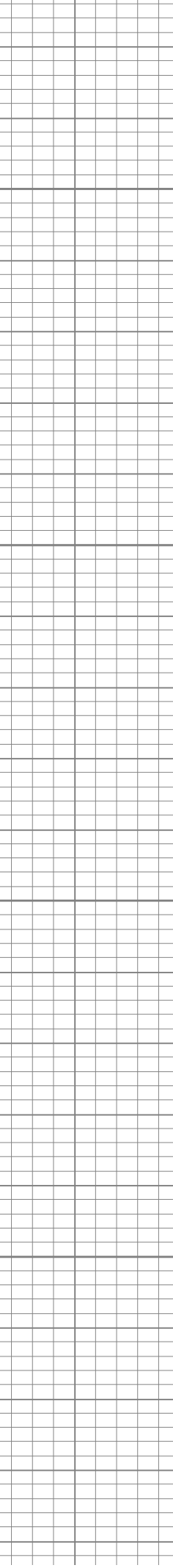
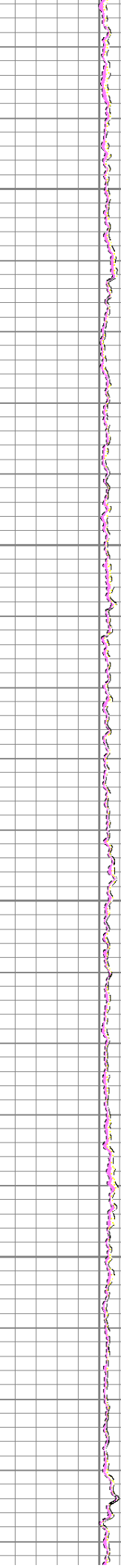
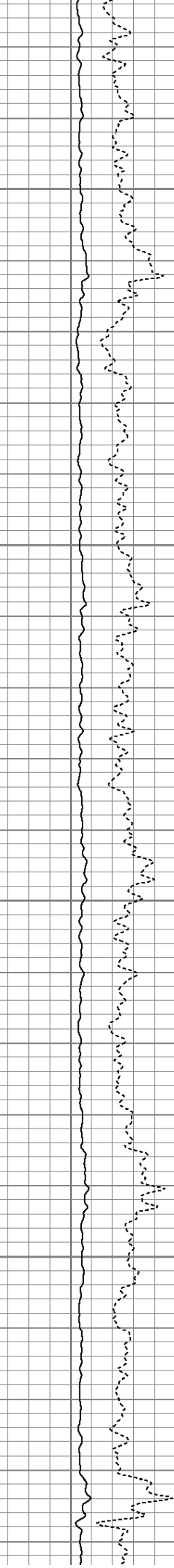
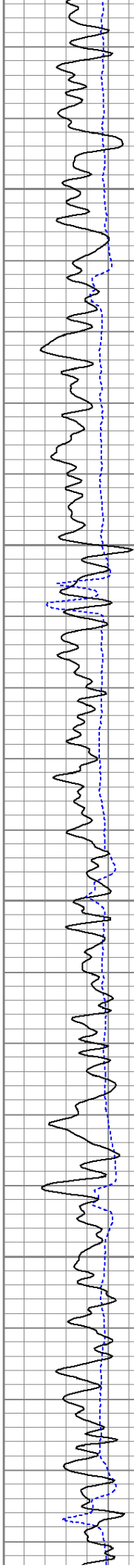




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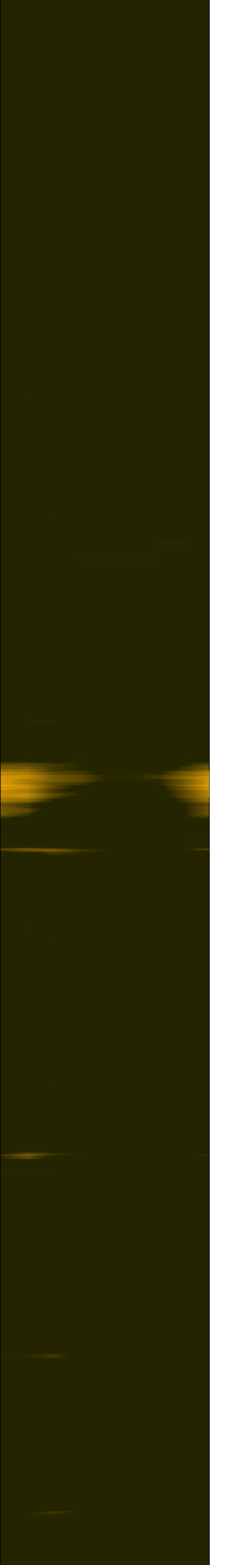
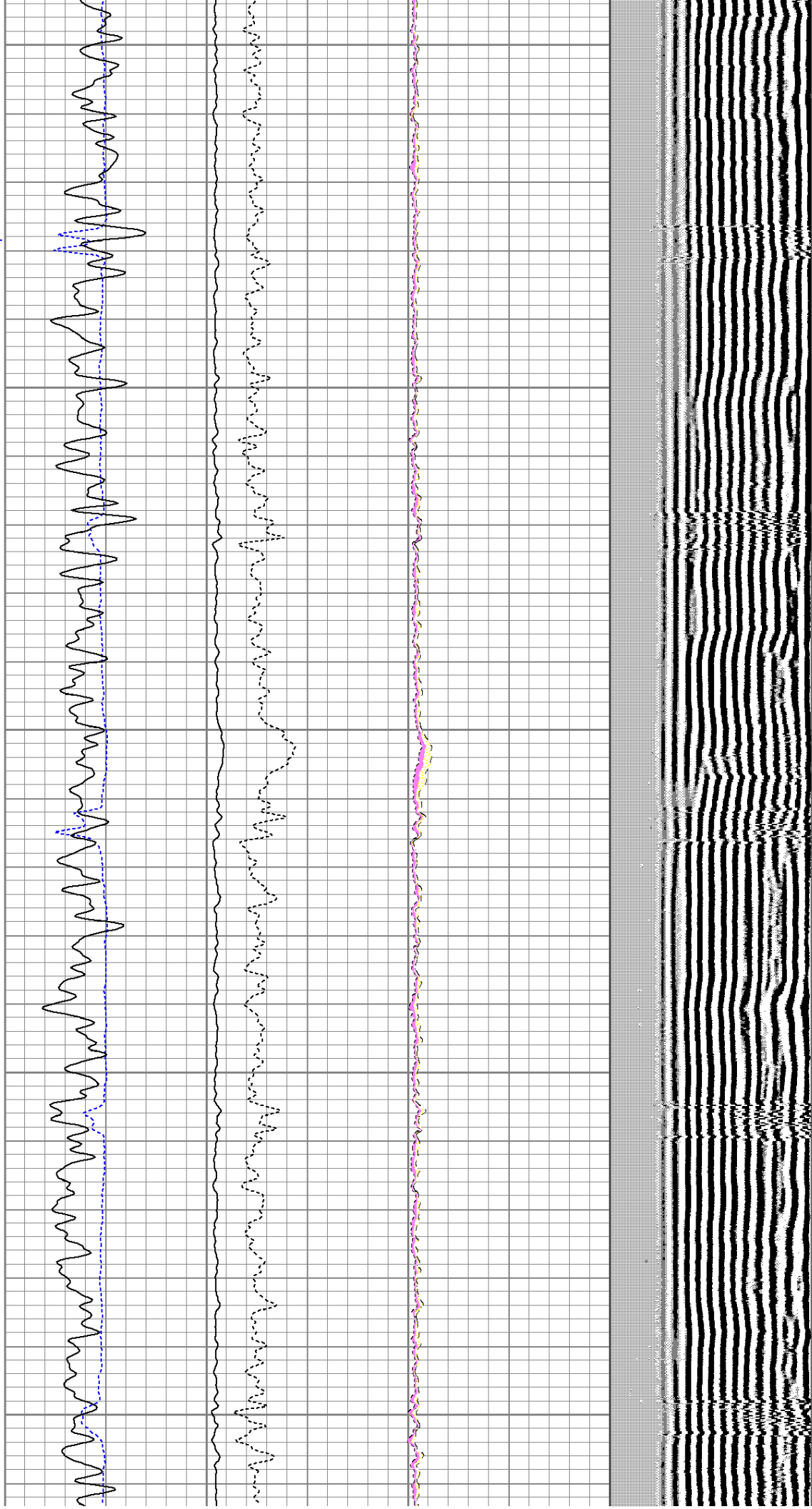




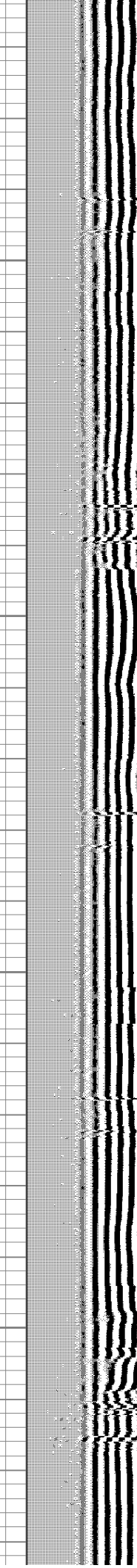
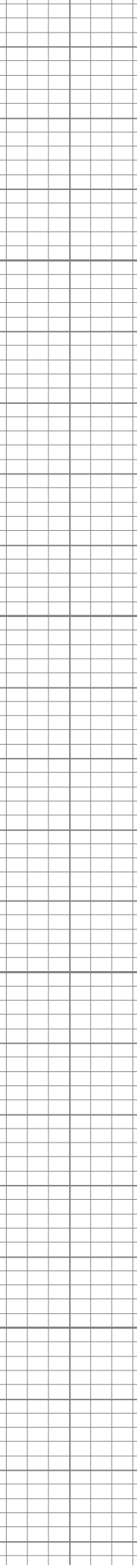
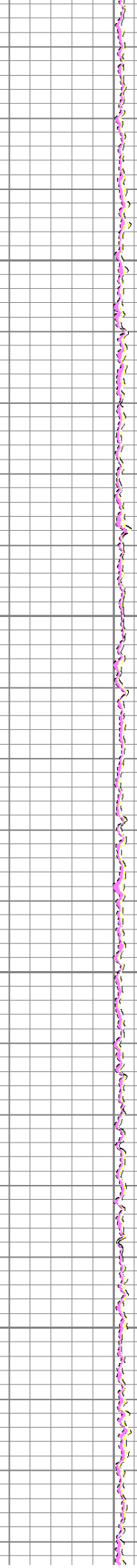
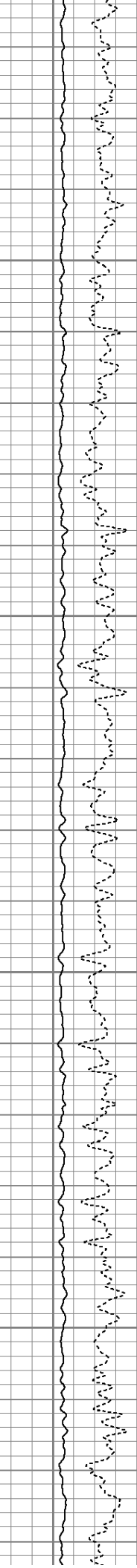
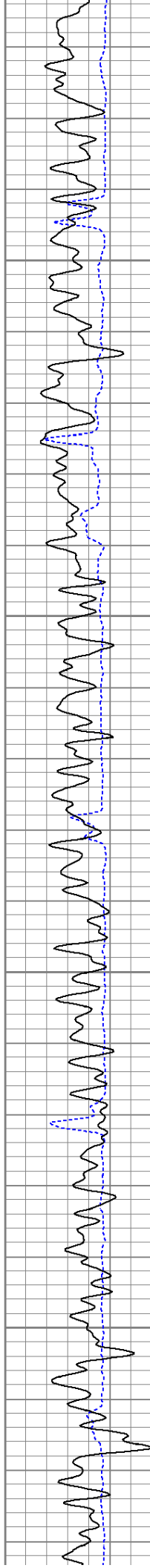


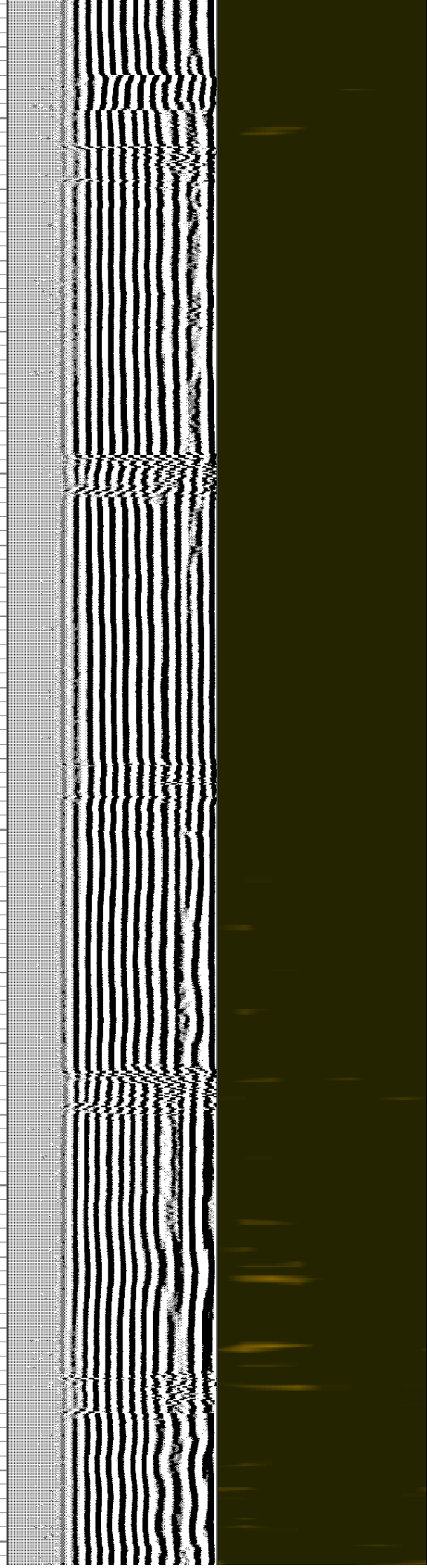
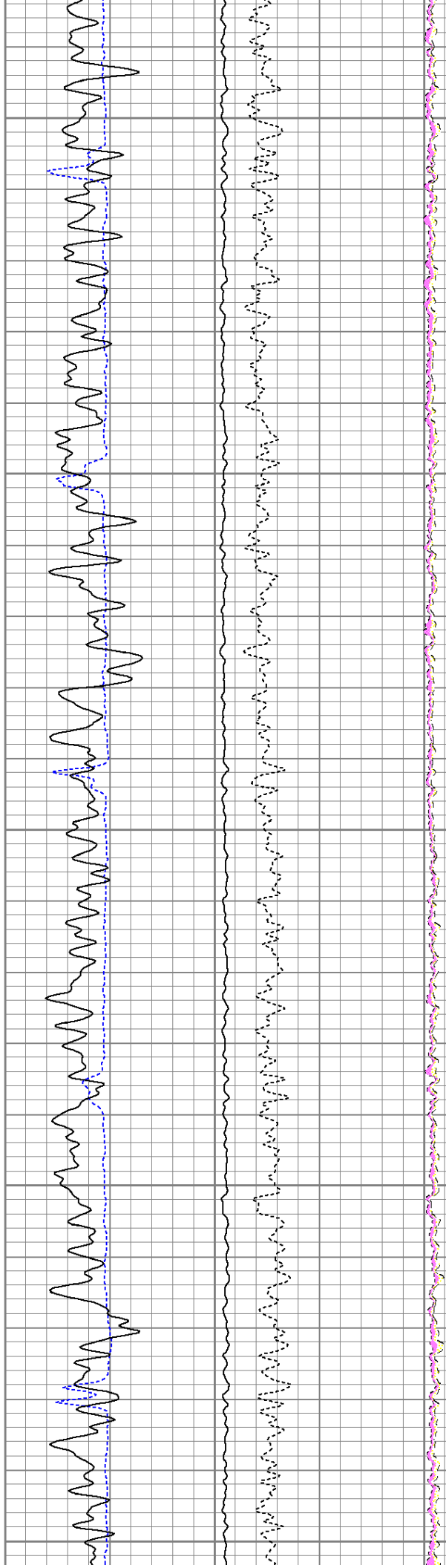
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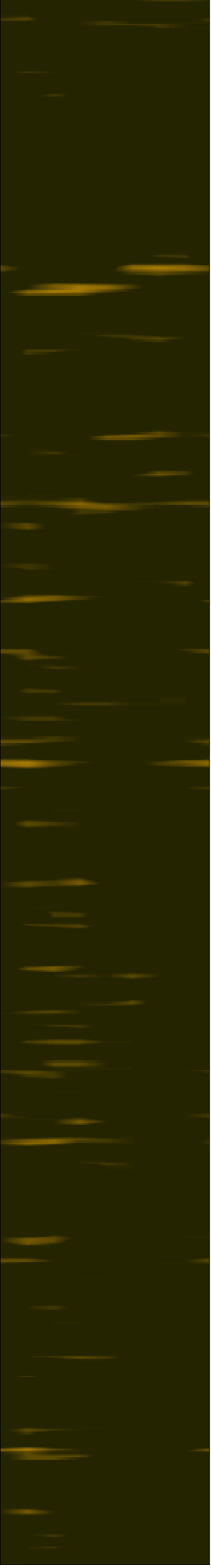
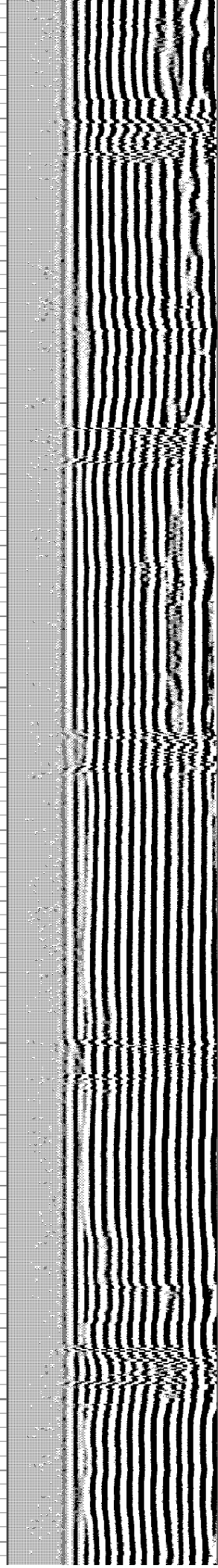
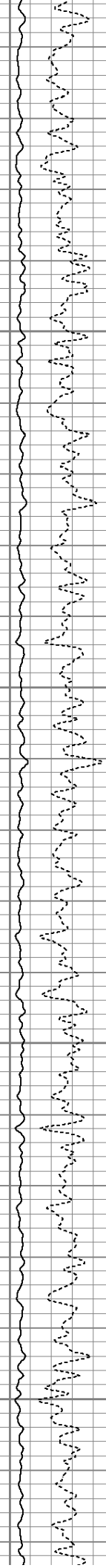
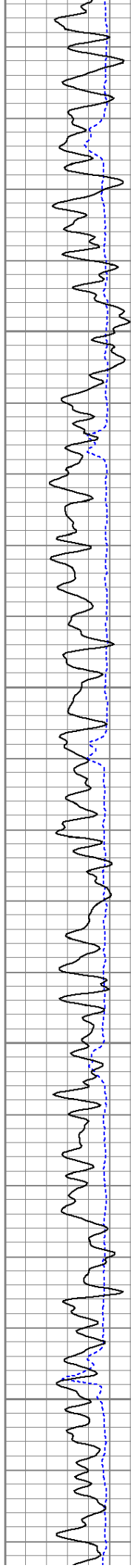


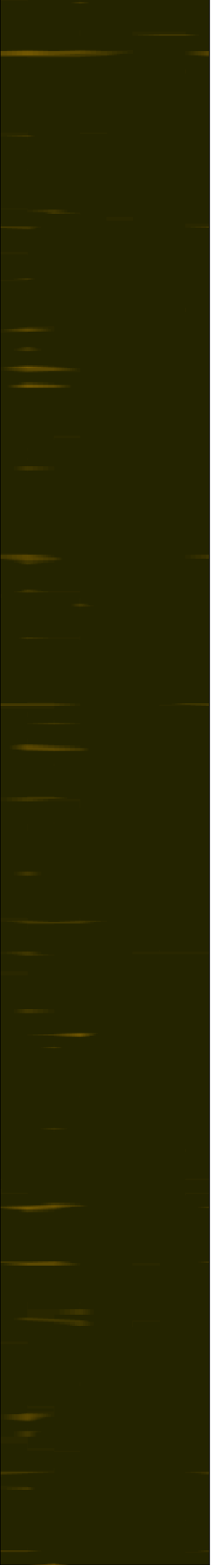
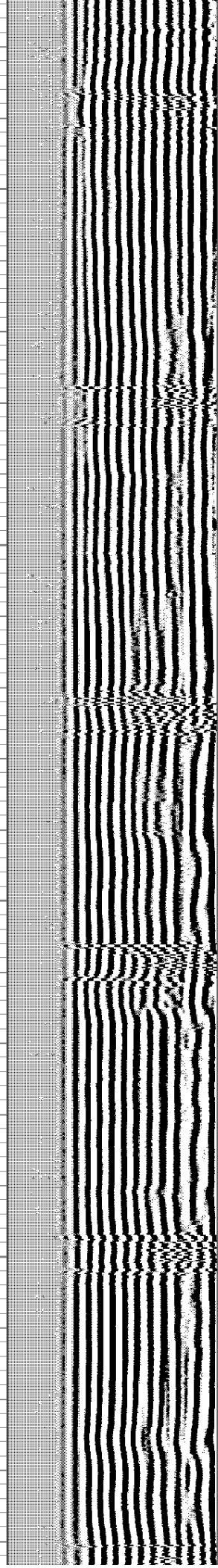
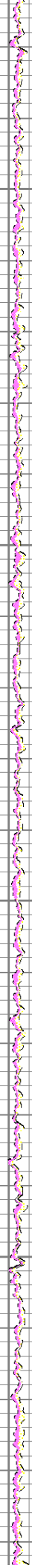
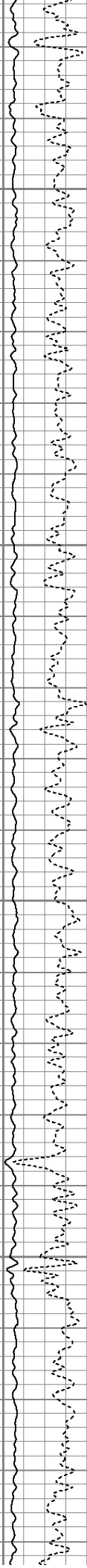
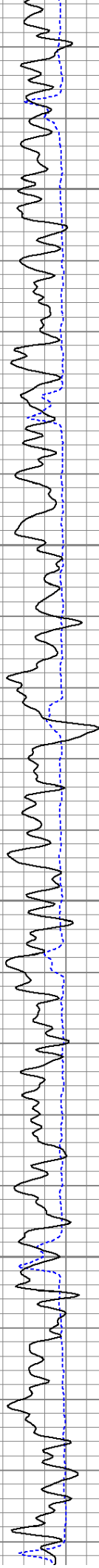


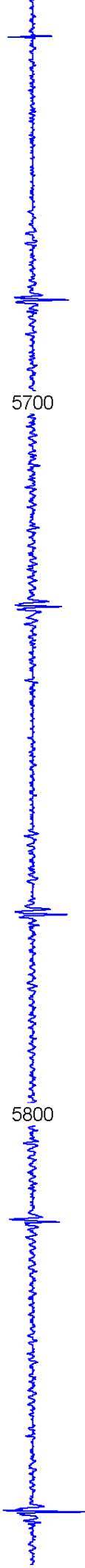






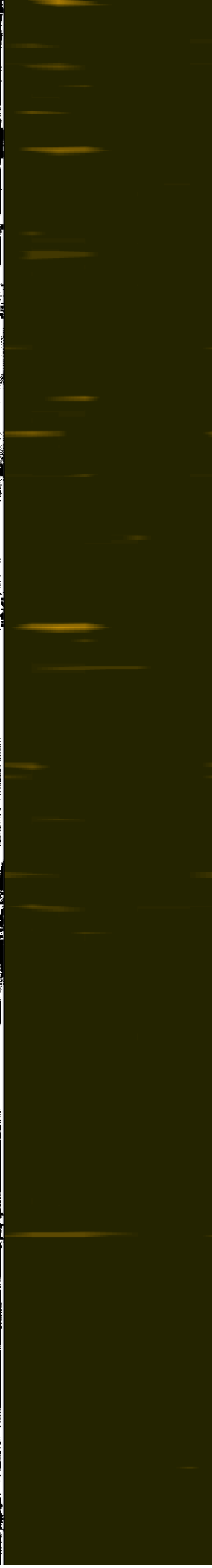
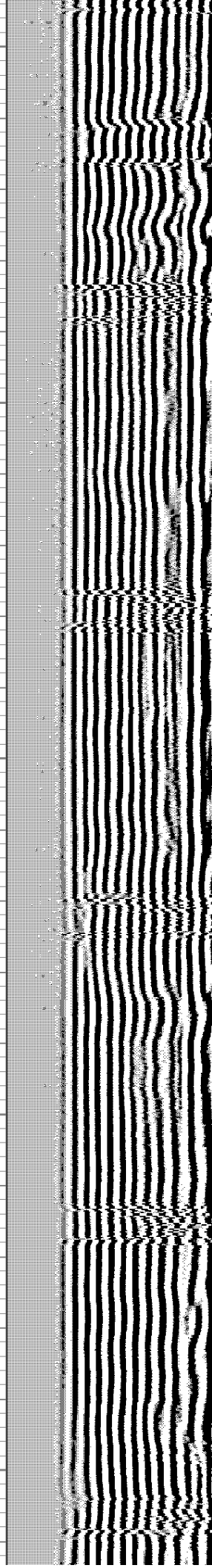
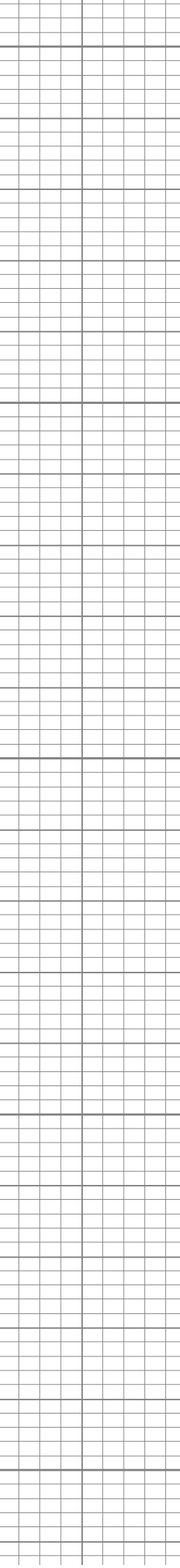
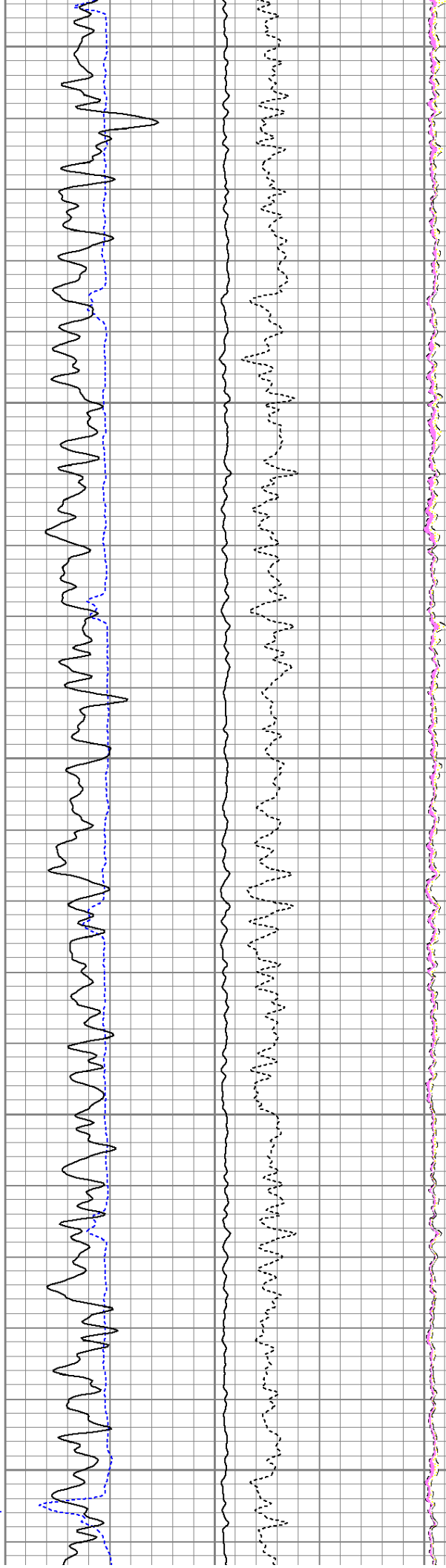




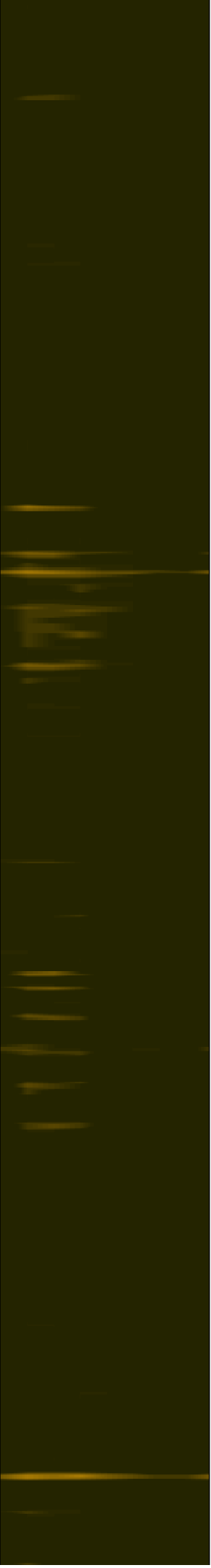
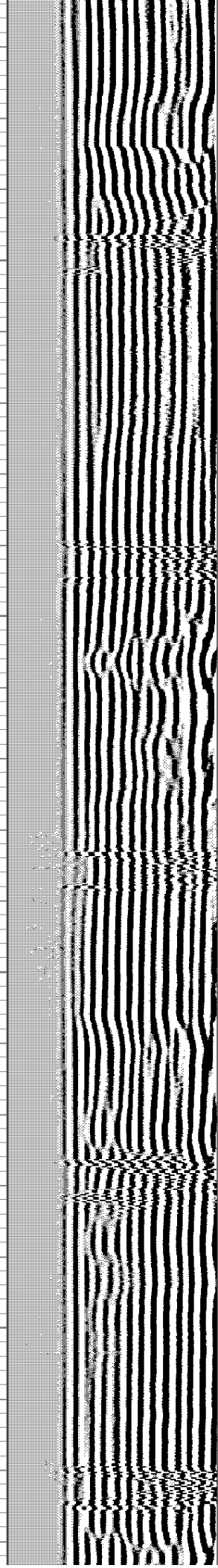
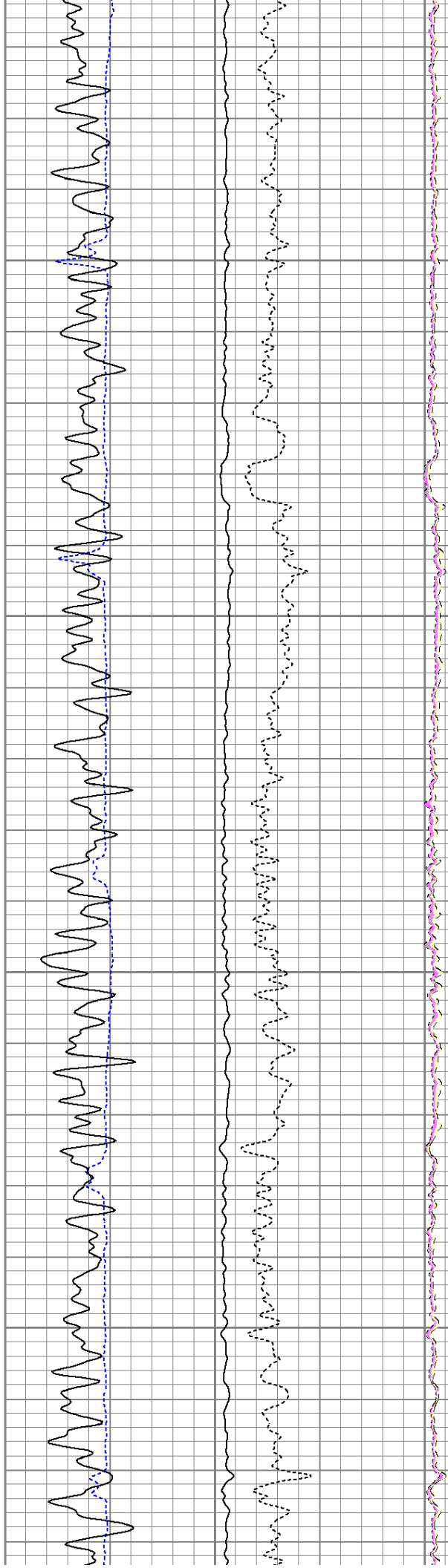


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