


PIONEER

Pioneer Energy Services

RADIAL SECTOR BOND LOG WITH GAMMA RAY

 RADIAL SECTOR BOND LOG WITH GAMMA RAY		Company CONOCO PHILLIPS CO Well STATE ELBERT 1H Field NIOBRARA County ARAPAHOE State CO	
Location: SHL: 1367' FSL & 387' FEL SENE LATITUDE: 39° 38' 56.67" N LONGITUDE: 104° 37' 25.65" W SEC 2 TWP 5S RGE 65W		Other Services JBGCR	
Permanent Datum GL Elevation 5858 Log Measured From KB Drilling Measured From KB		Elevation 5858 K.B. 5882 D.F. 5882 G.L. 5858	
Date of Service Run Number Depth Driller or PBTD Depth Logger Bottom Log Interval Top Log Interval Open Hole Size Type Fluid Fluid Level Fluid Density Max. Recorded Temperature Wellhead Pressure Wellhead Connection Estimated Cement Top Unit Number Wireline Size Location Recorded By Witnessed By		SEPTEMBER 21, 2014 ONE 12263 7230 7229 SURFACE 8+7/8" WATER SURFACE 8.33 NA 500 10K 7-1/16" 1960 75 9/32" FT MORGAN, CO SCHUMAN MR. JIM MALONE	
Tubing Record Surface Casing Production Casing Liner Record		Size 9+5/8" 5+1/2" Vt/Ft Top Bottom	
<<< 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. SO# 2-280039			
THANK YOU FOR USING PIONEER Energy SERVICES			
Your Pioneer Energy Services Crew Engineer: Shaun Operator: Tim Operator: Mike Operator: Angelo		Tool Data - Services Sector CBL	
Serial Number 111205			



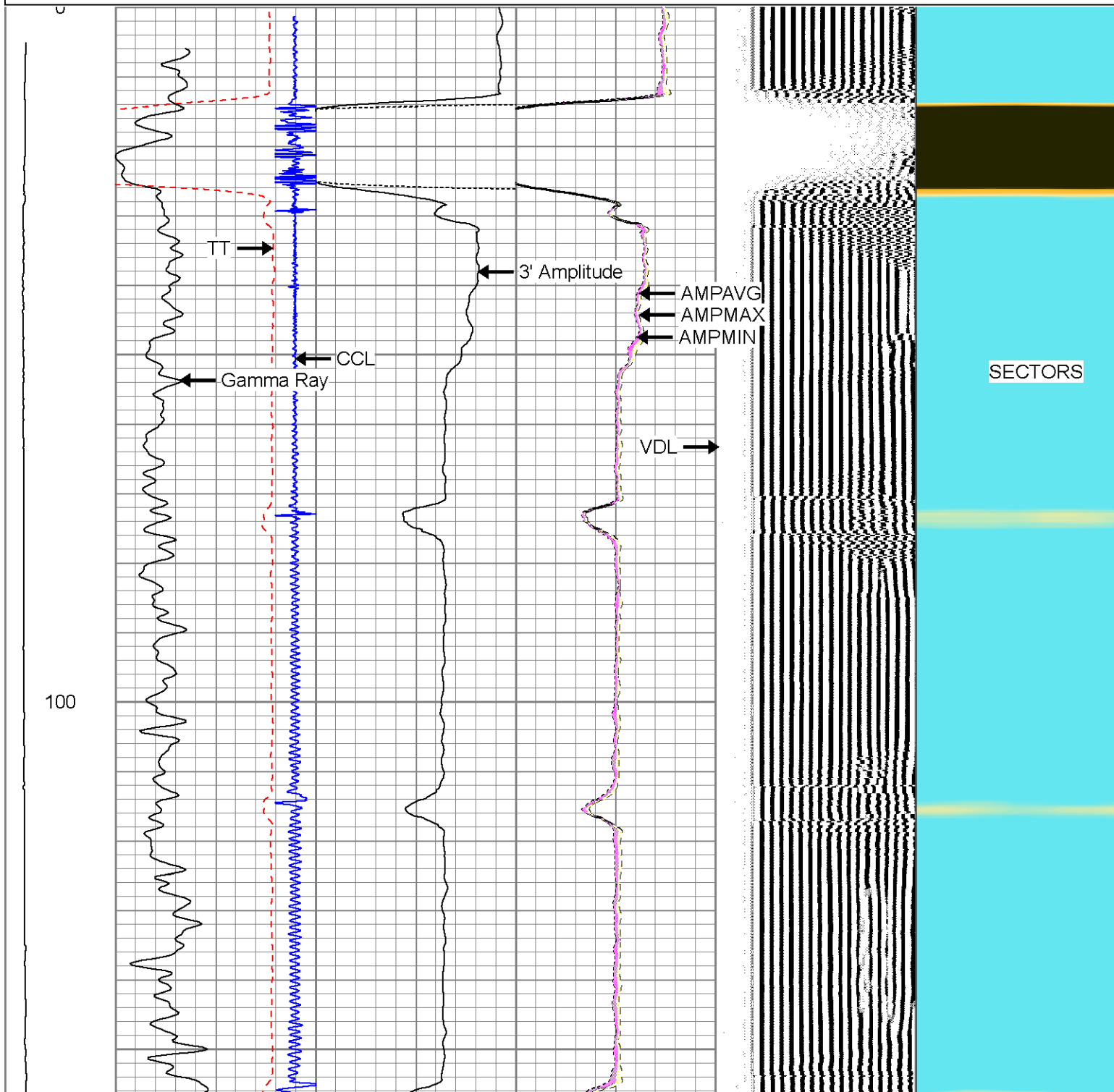
Pioneer Energy Services

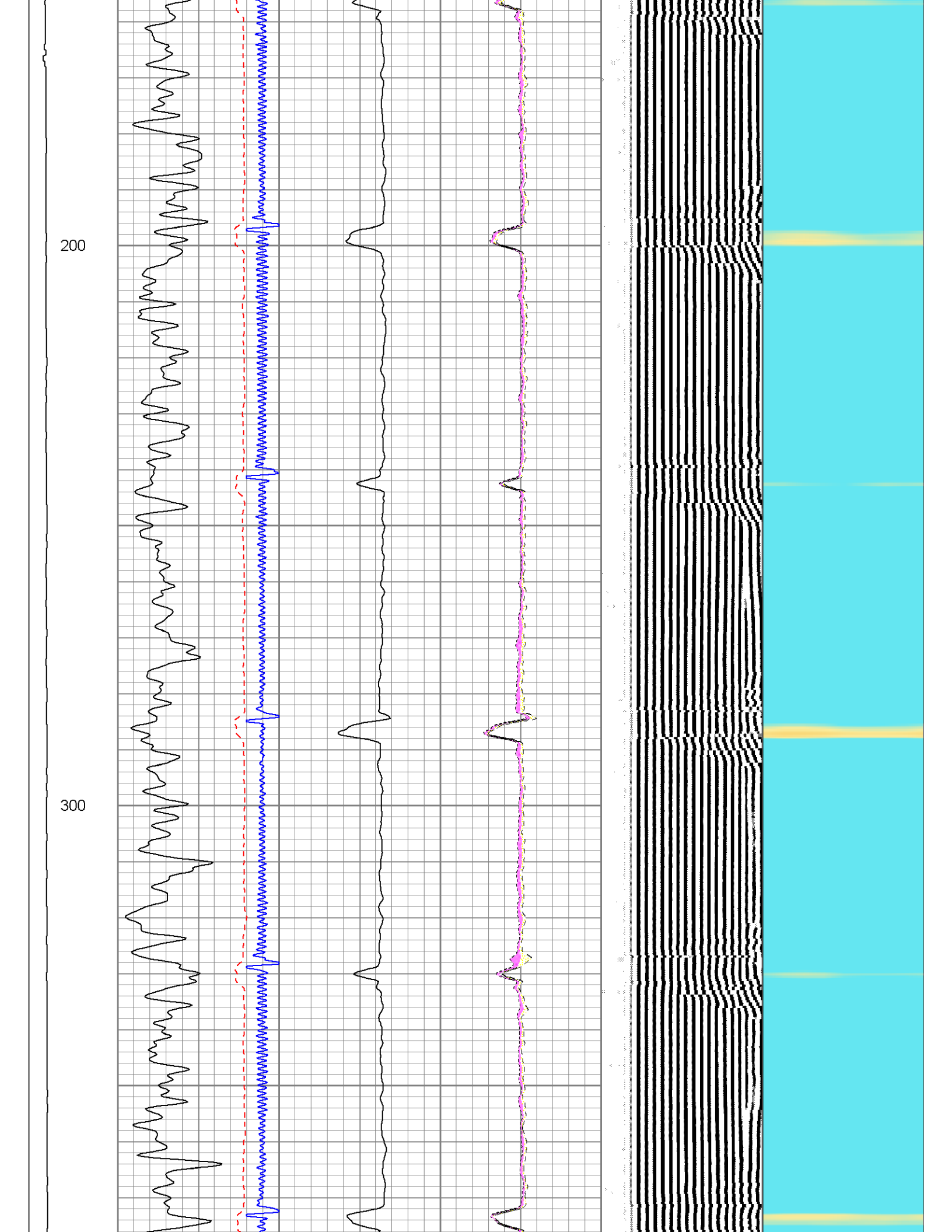
MAIN PASS

Logged with 500 PSI applied at wellhead

Database File: state elbert 1h.db
Dataset Pathname: rbl/pass3.4
Presentation Format: scbl02
Dataset Creation: Sun Sep 21 12:38:38 2014 by Calc 7.0 B1
Charted by: Depth in Feet scaled 1:240

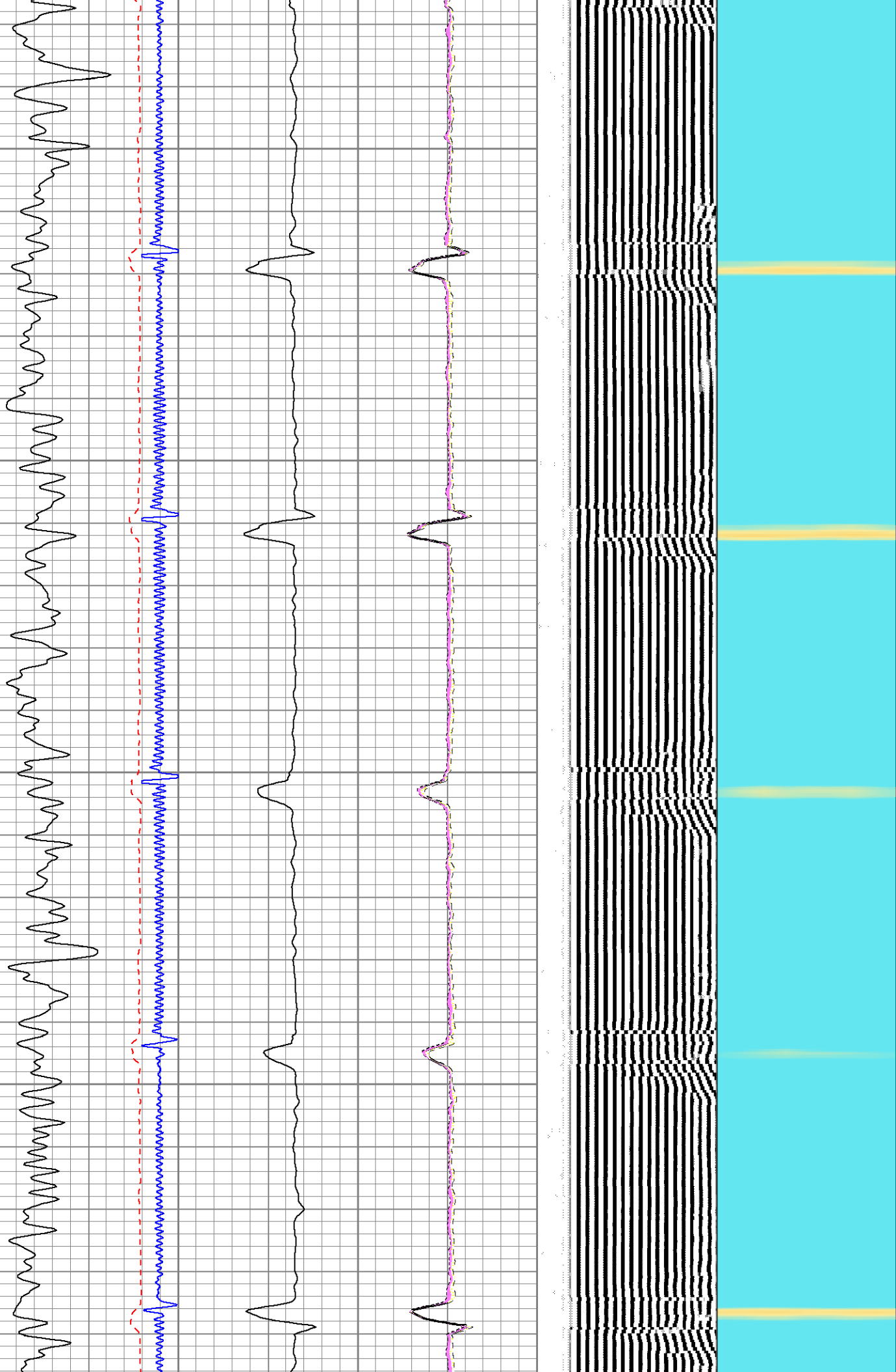
Tension	-9	CCL	1	3' Amplitude	0	AMPAVG	150	200	VDL	1200	1	SECTOR MAP	8
0 (lb/1600)		Gamma Ray		(mV)	100	0	AMPMAX	150			10		60
	0	(GAPI)	200	0 AMPx5 (mV)	20	0	AMPMIN	150					
	330	TT (usec)	230										

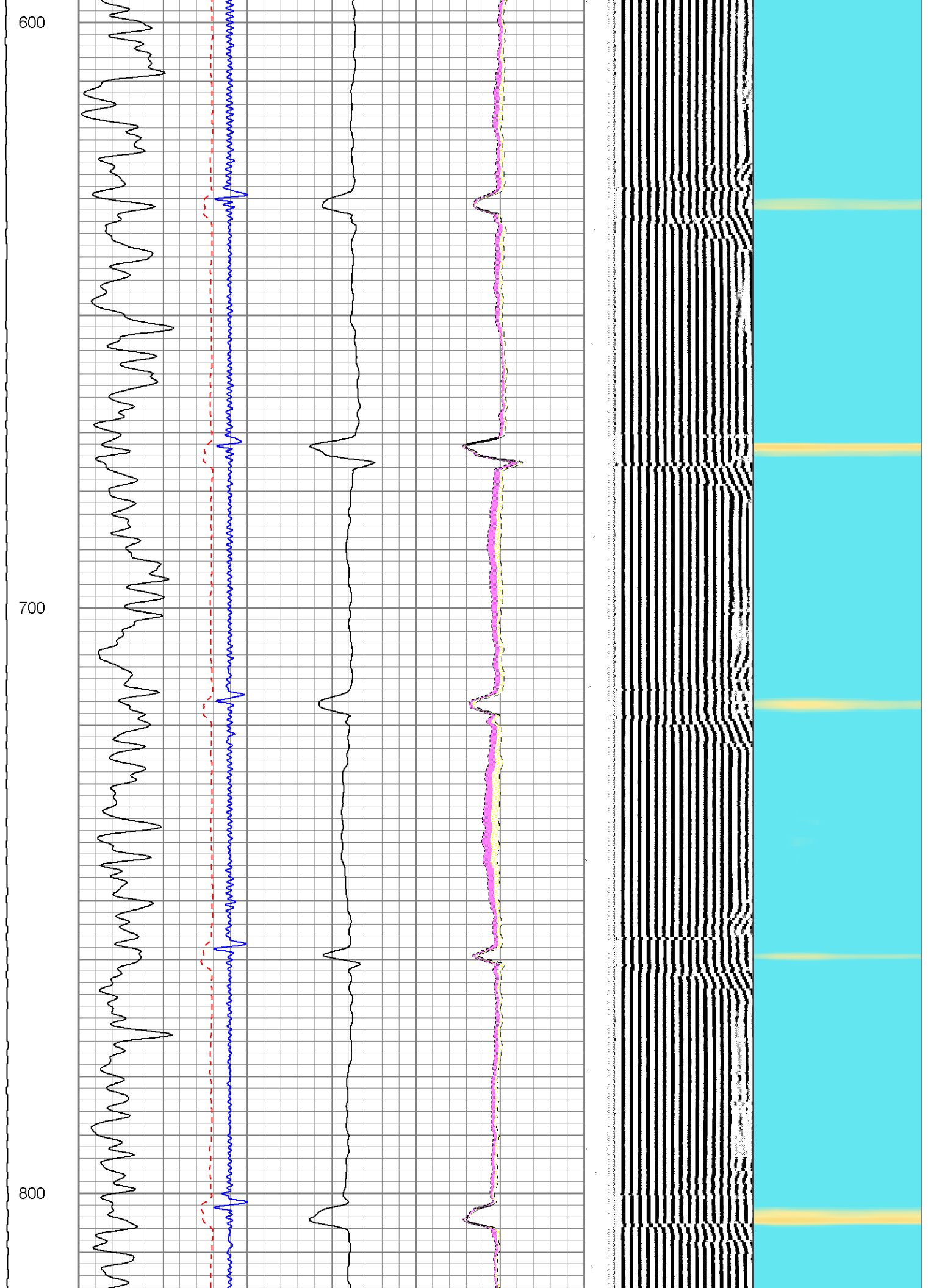


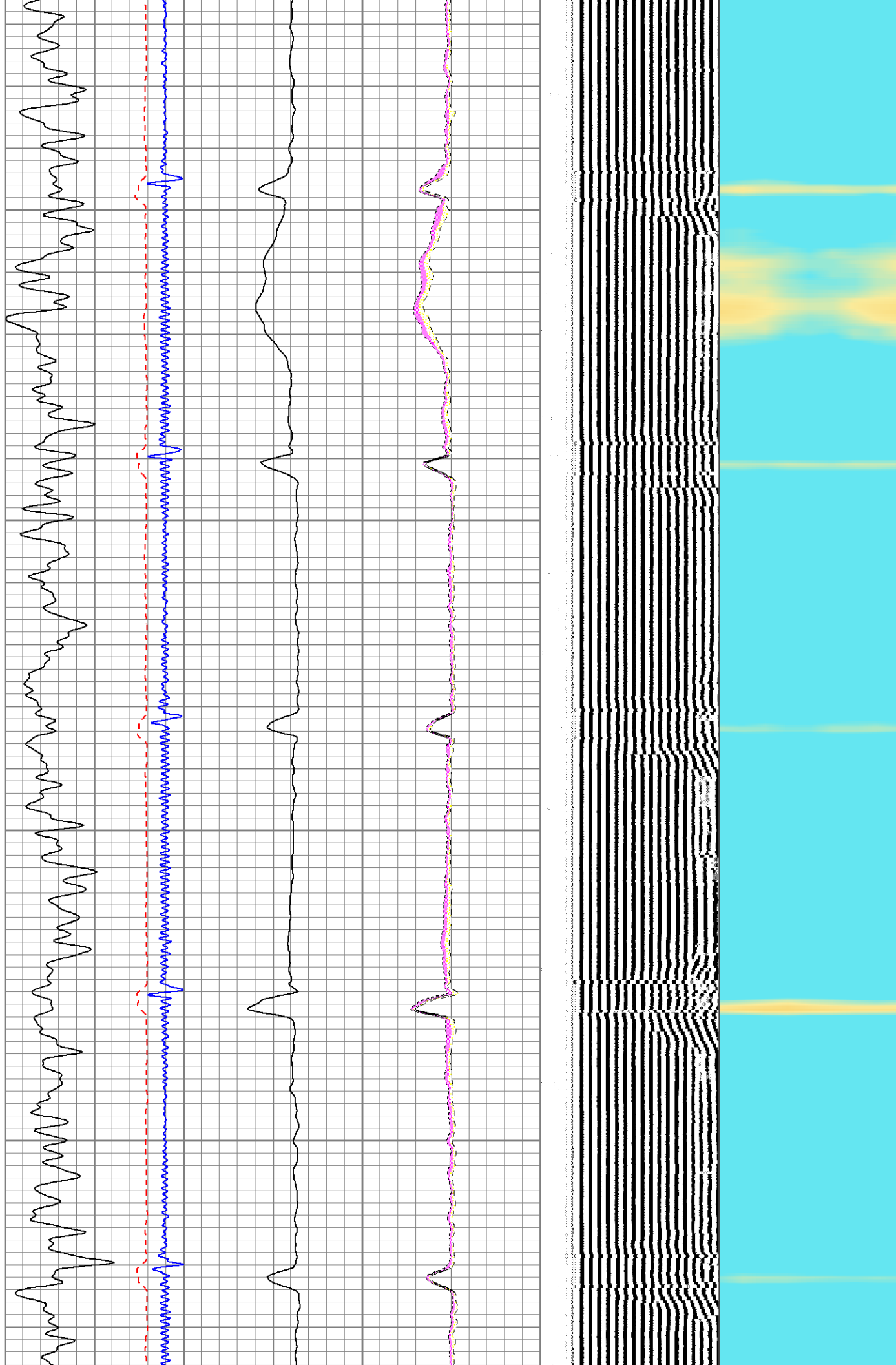
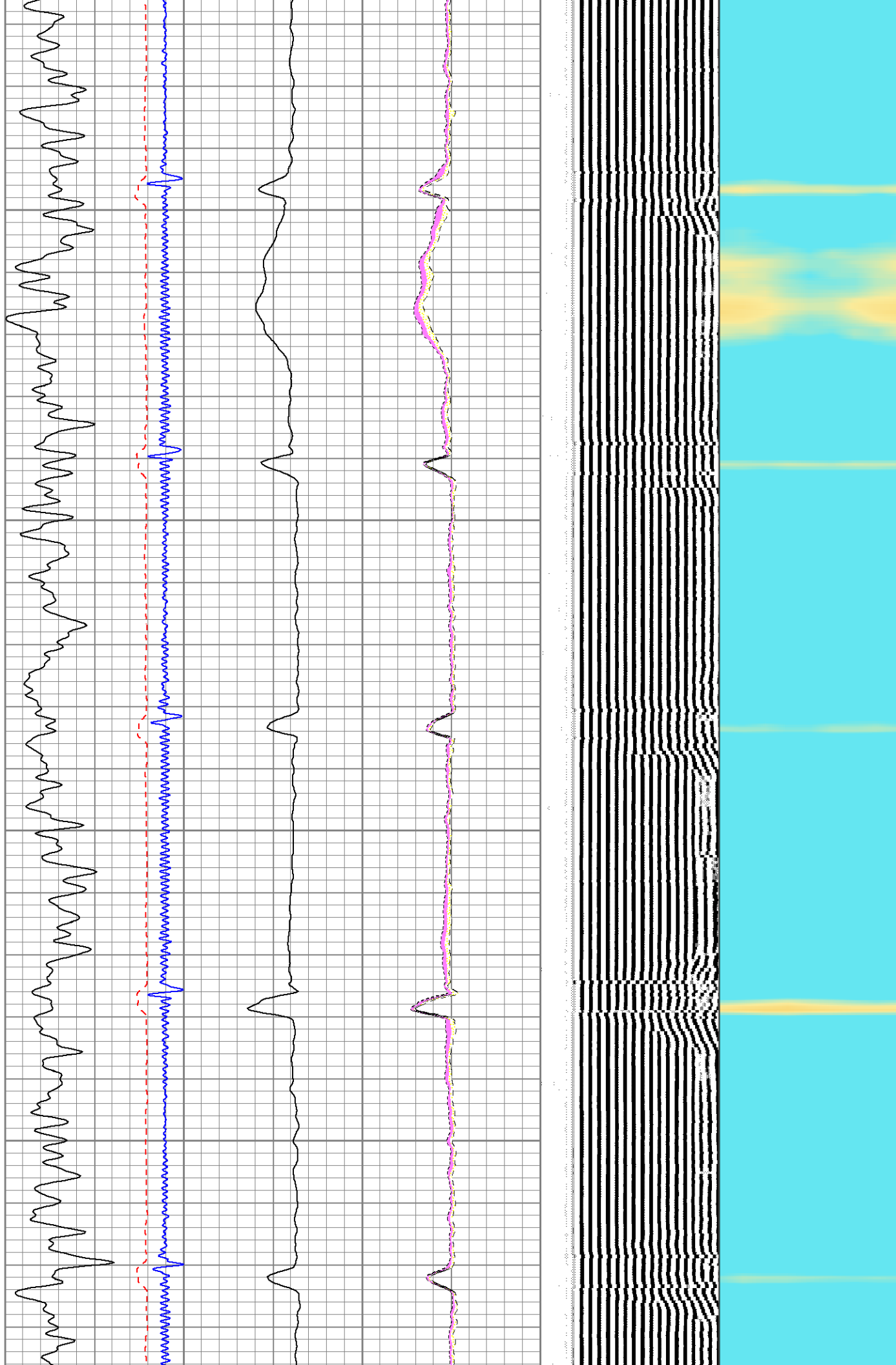


400

500



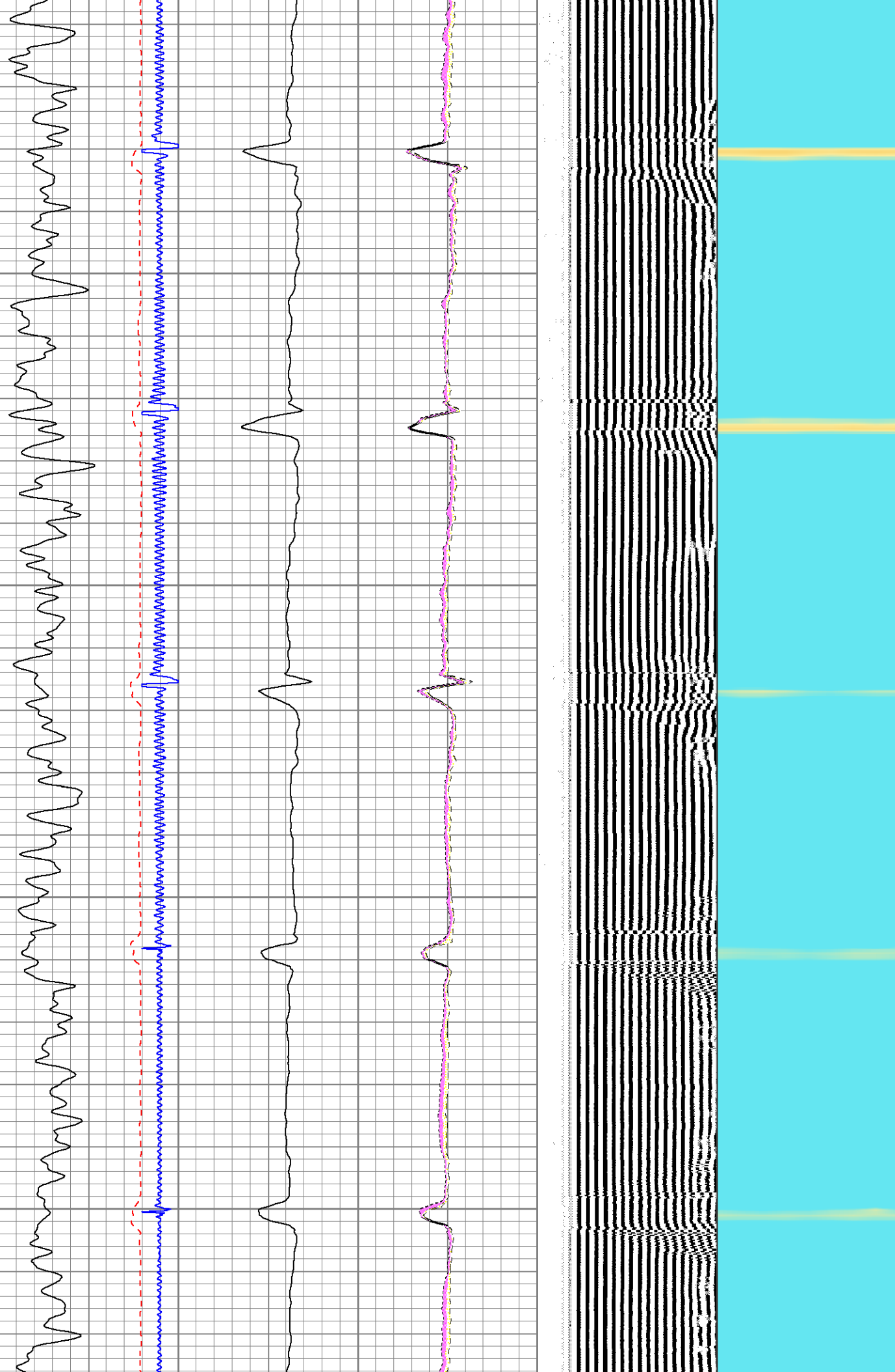
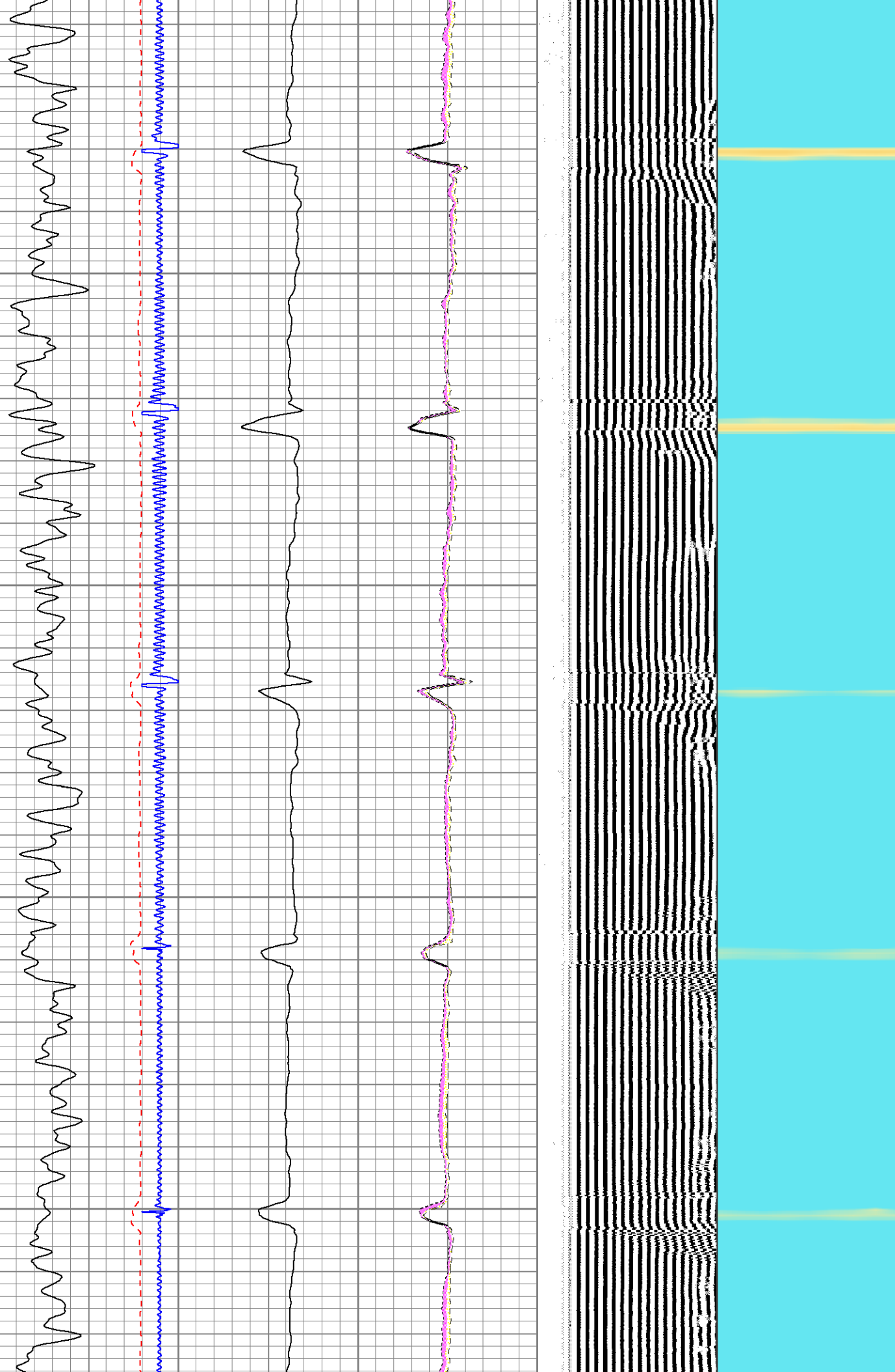




1100

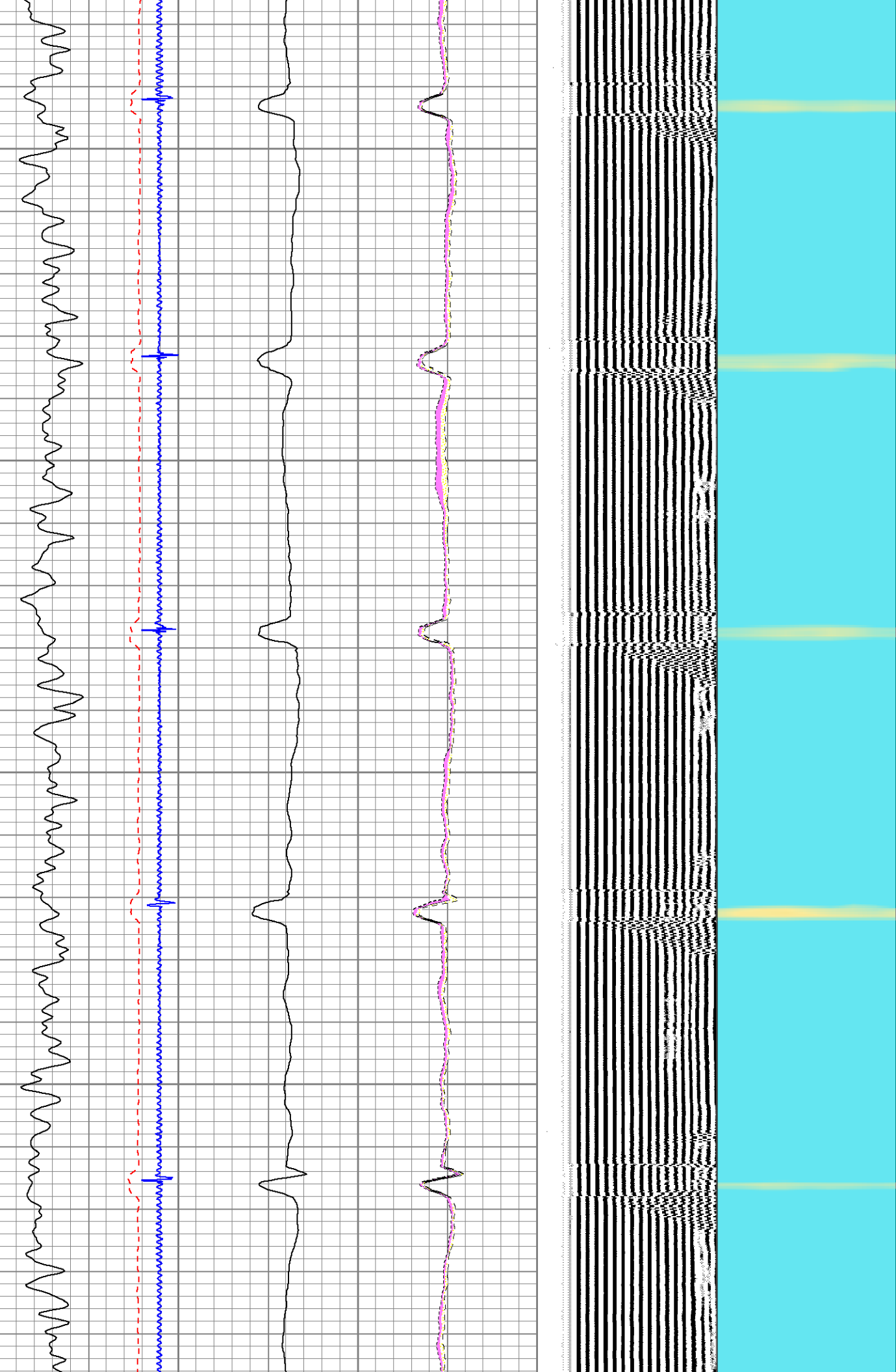
1200





1500

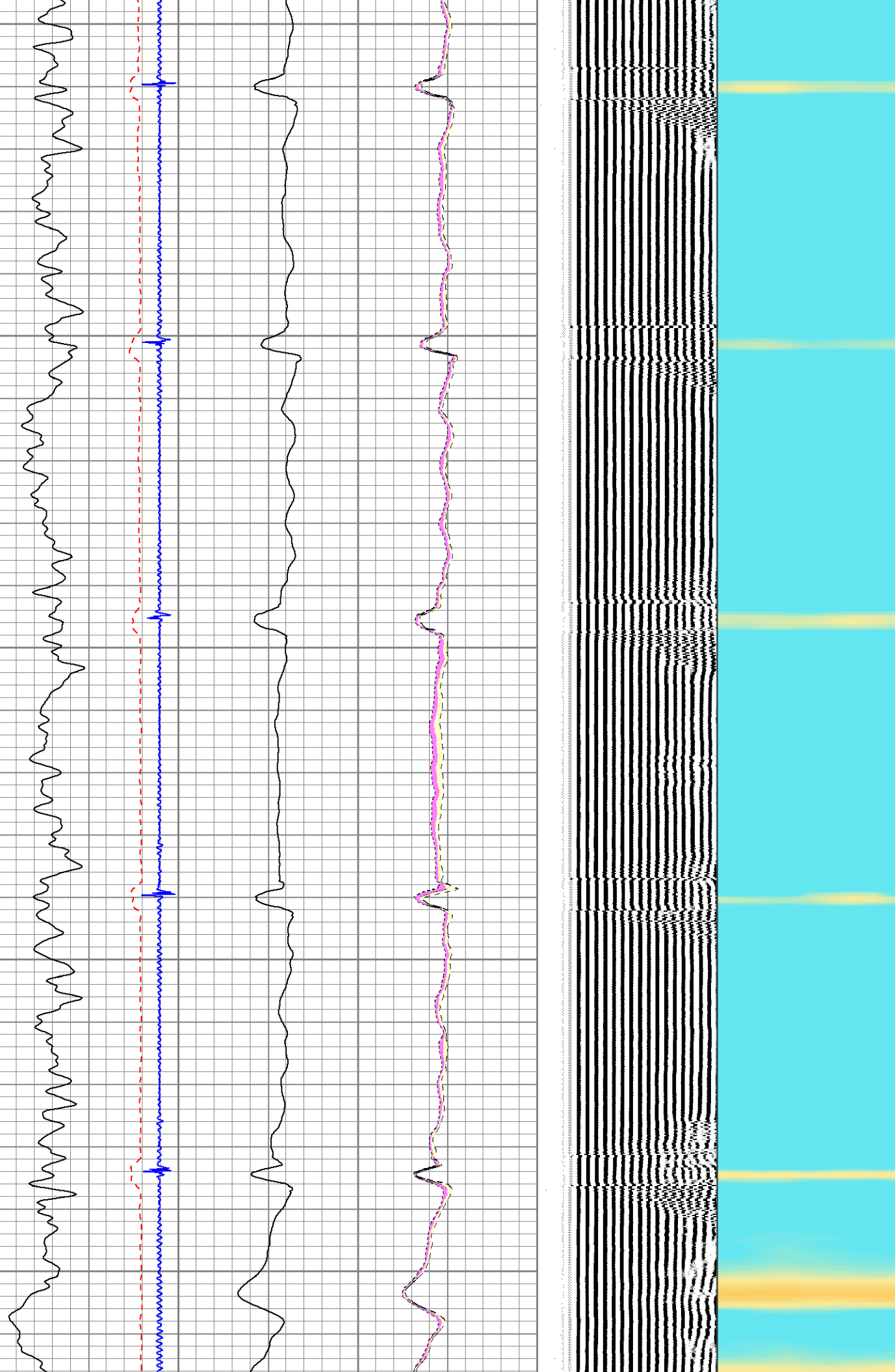
1600



1700

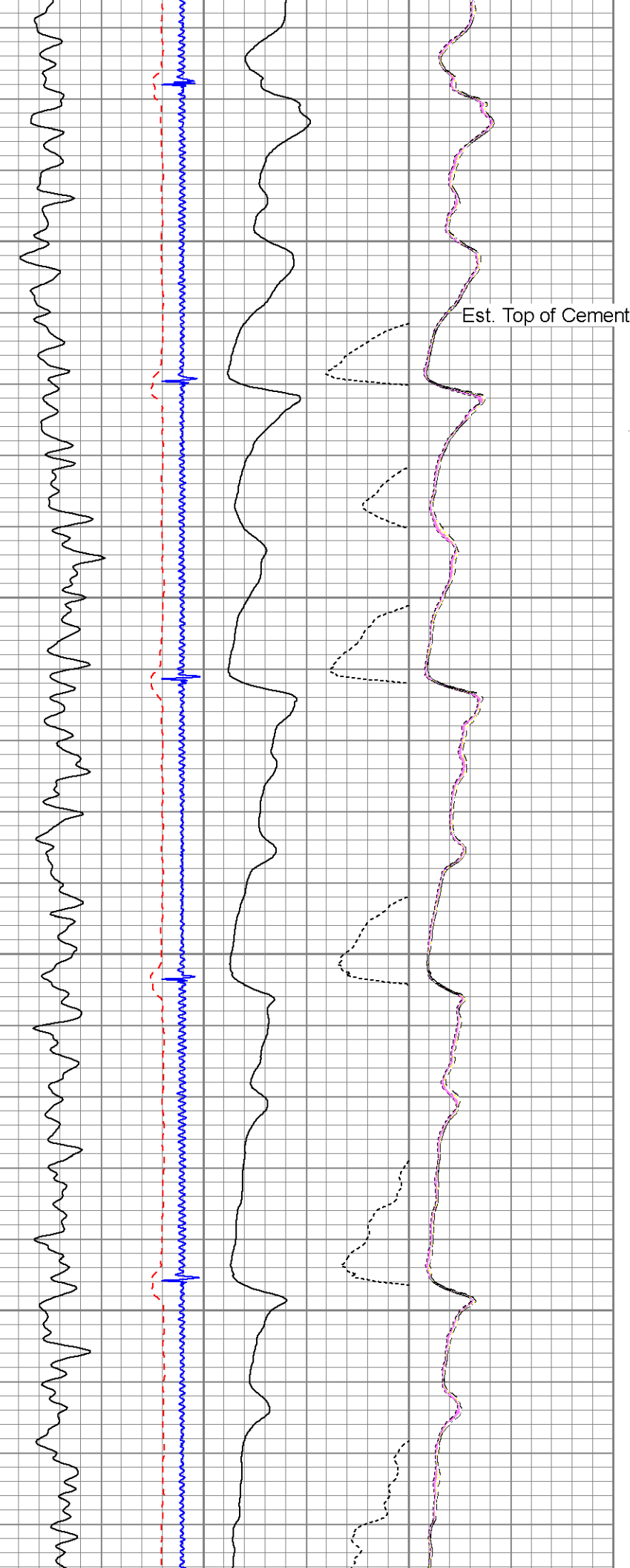
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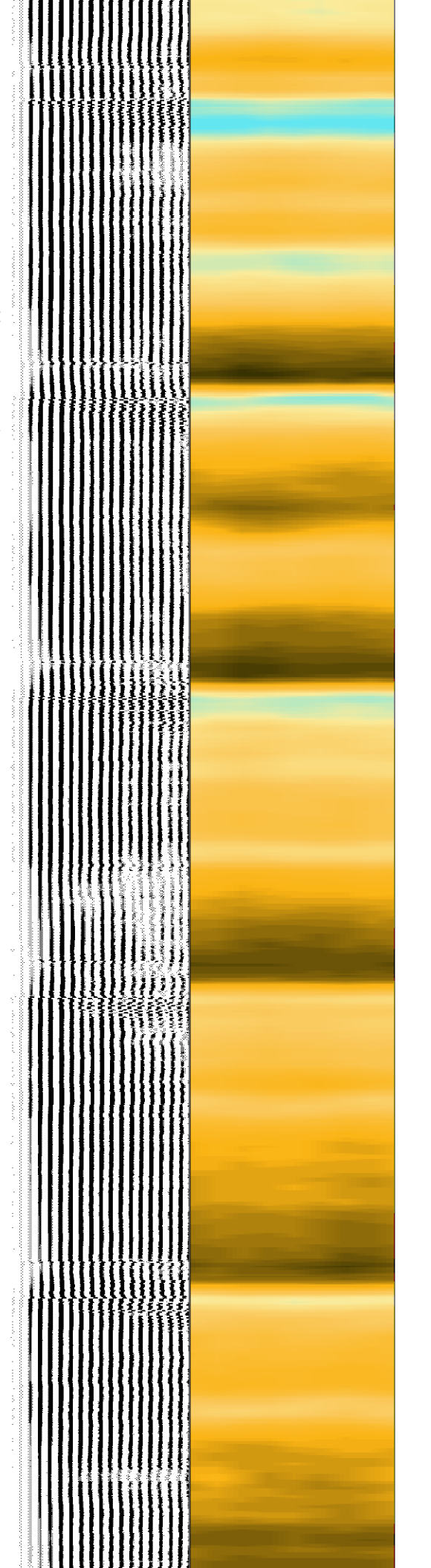


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2100

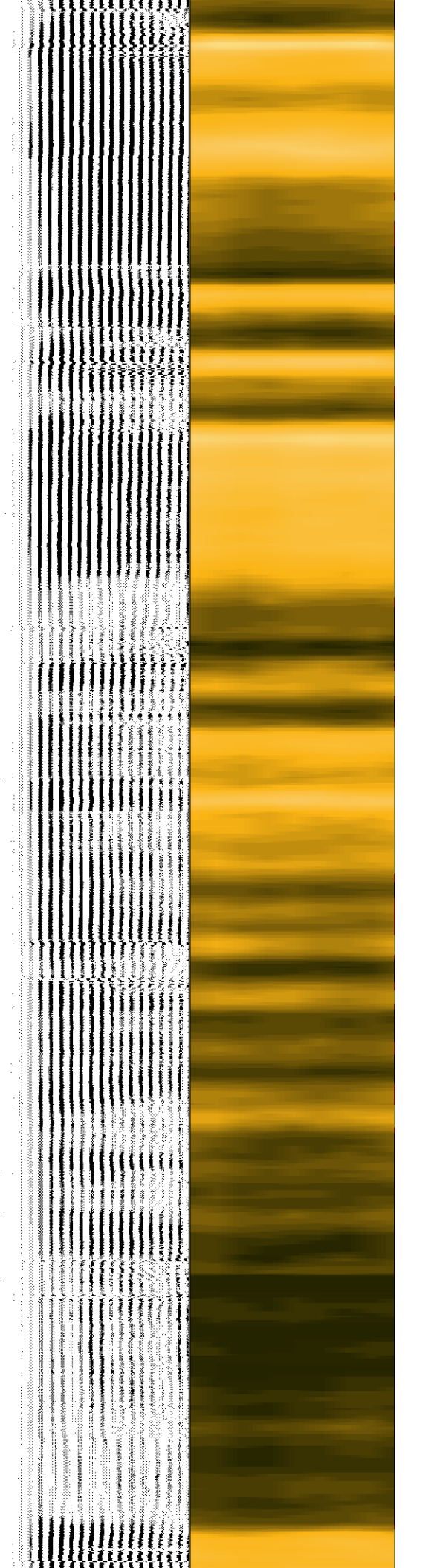
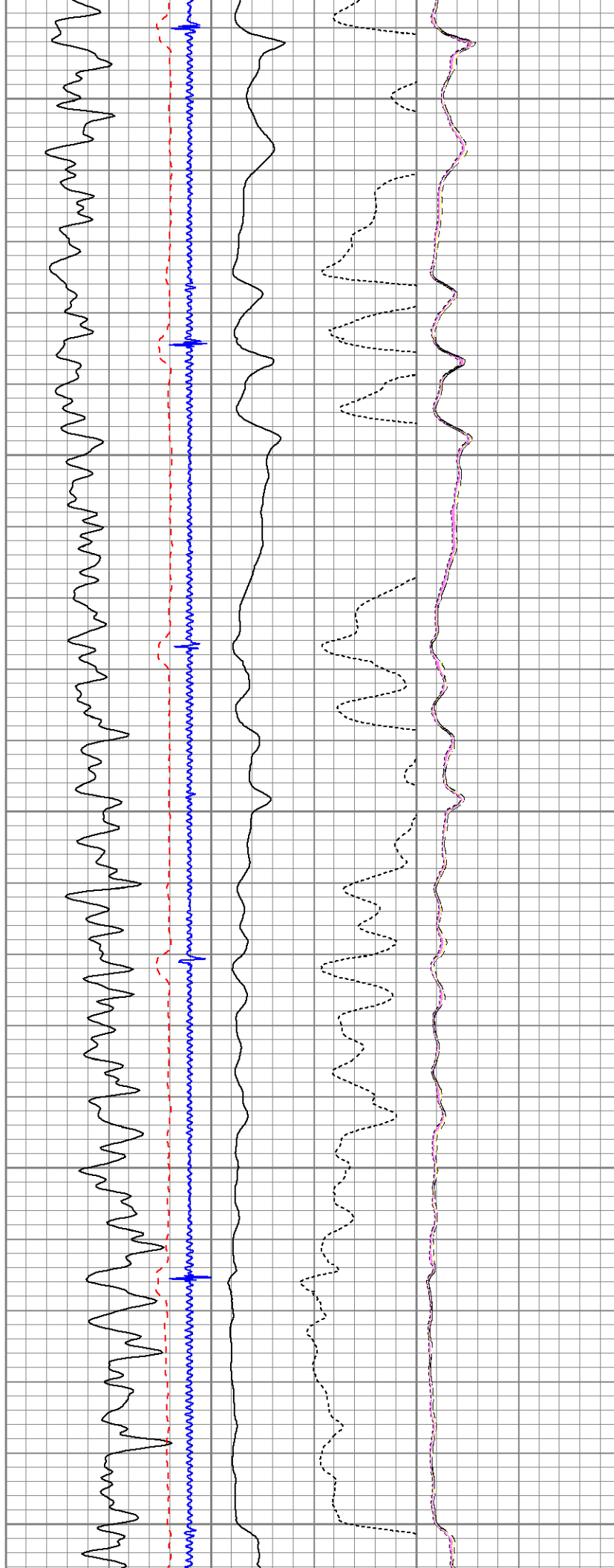


Est. Top of Cement



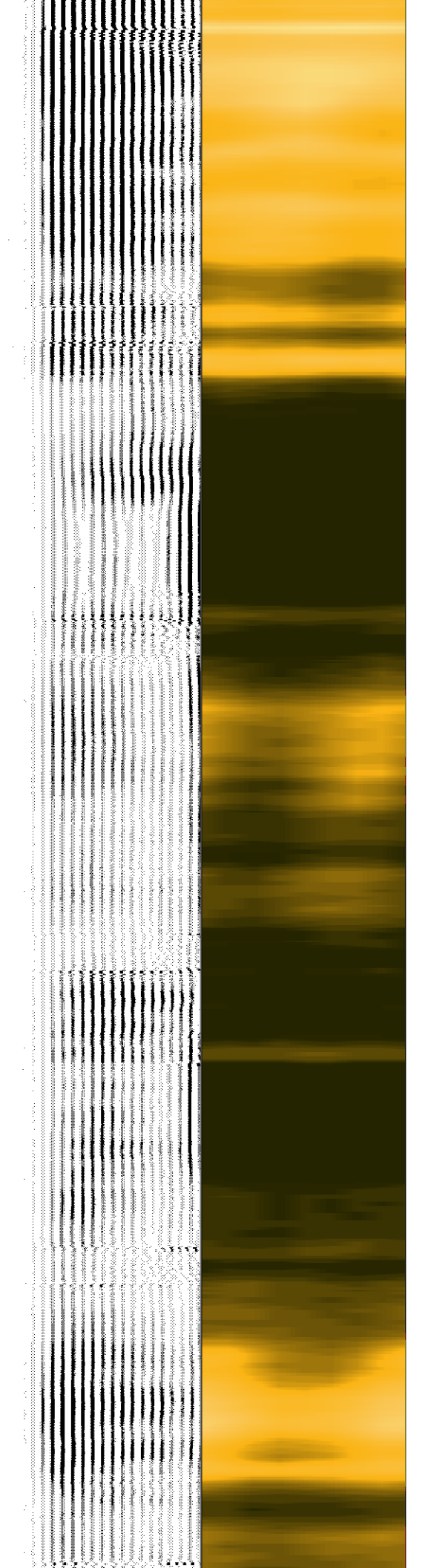
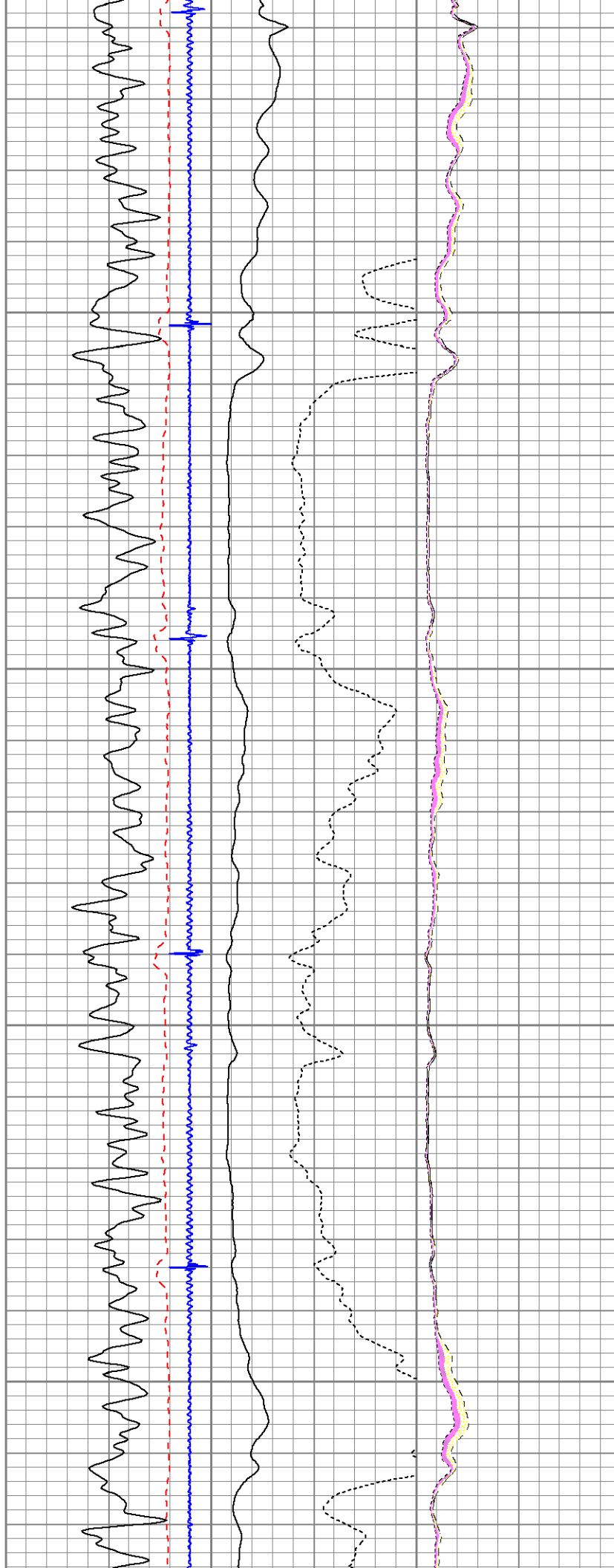
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2300



2400

2500

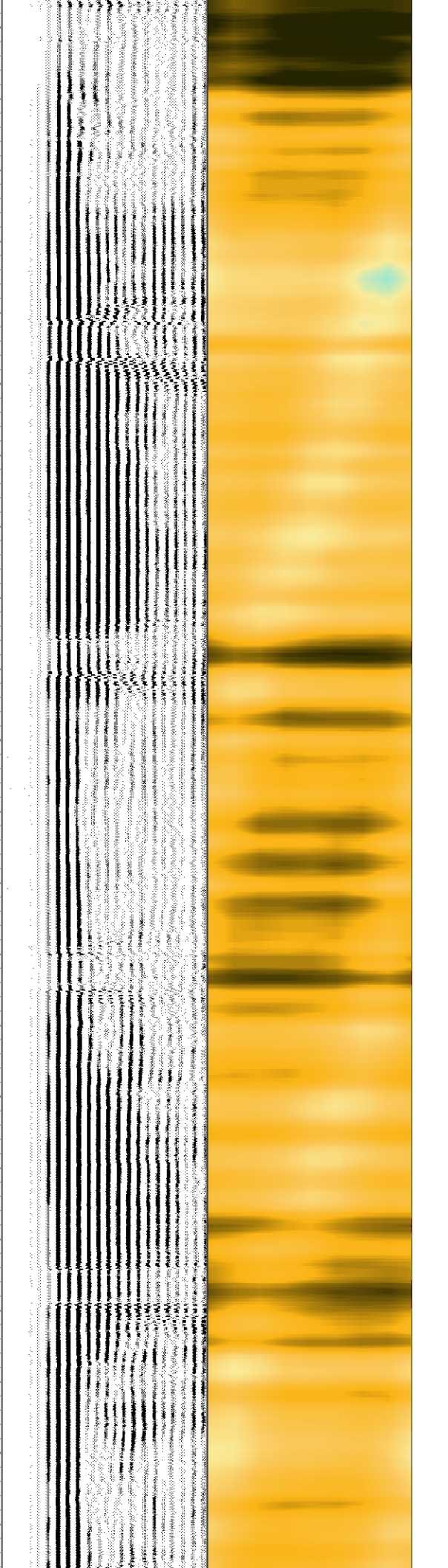
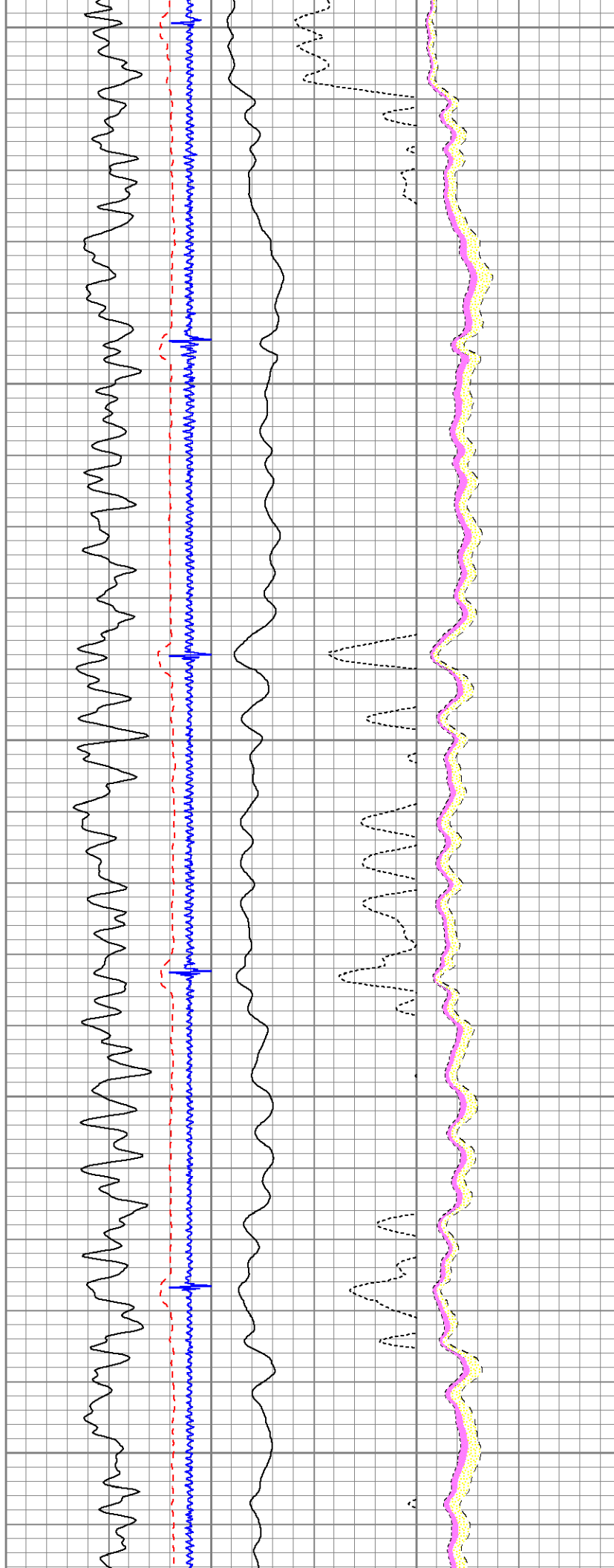




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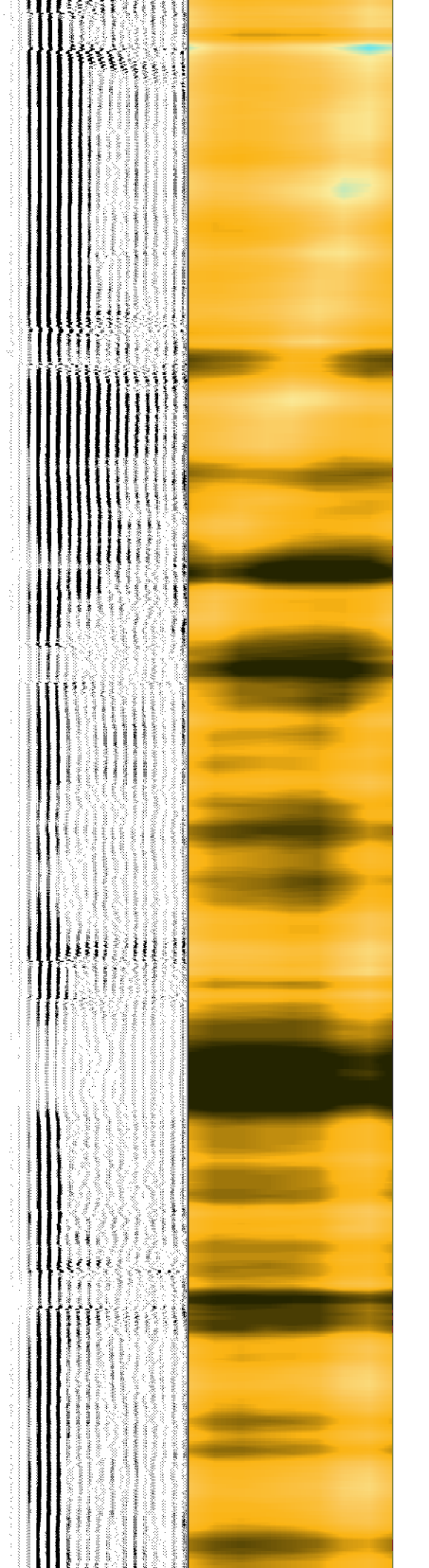
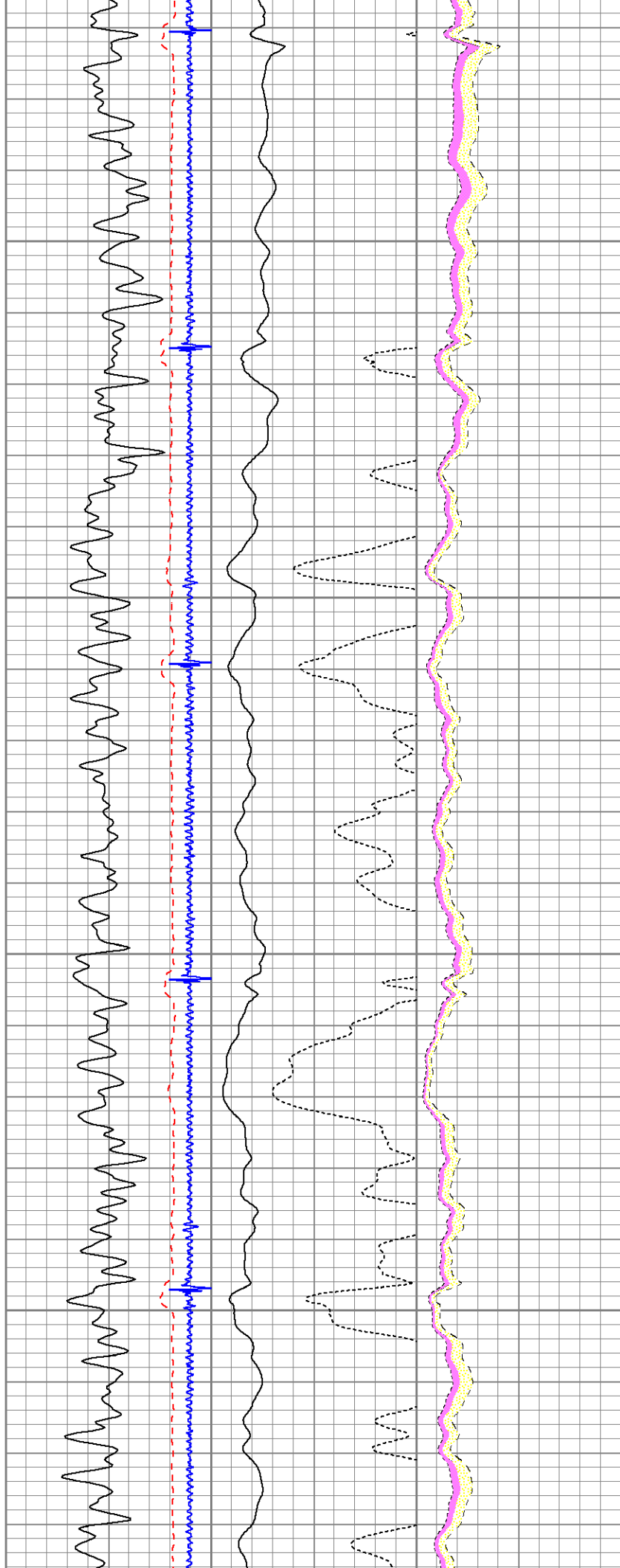
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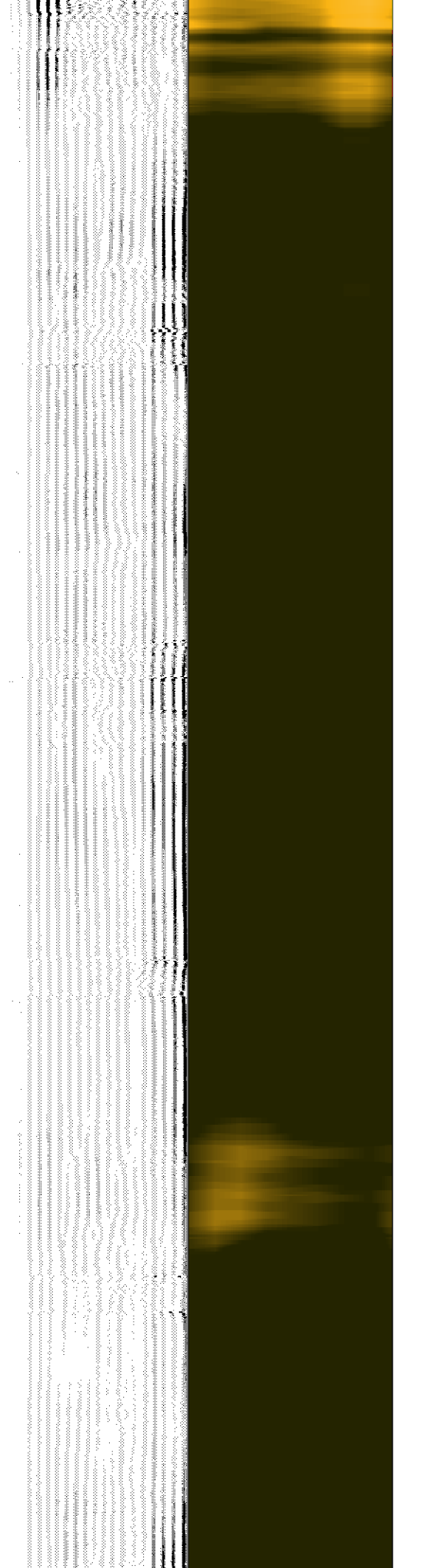
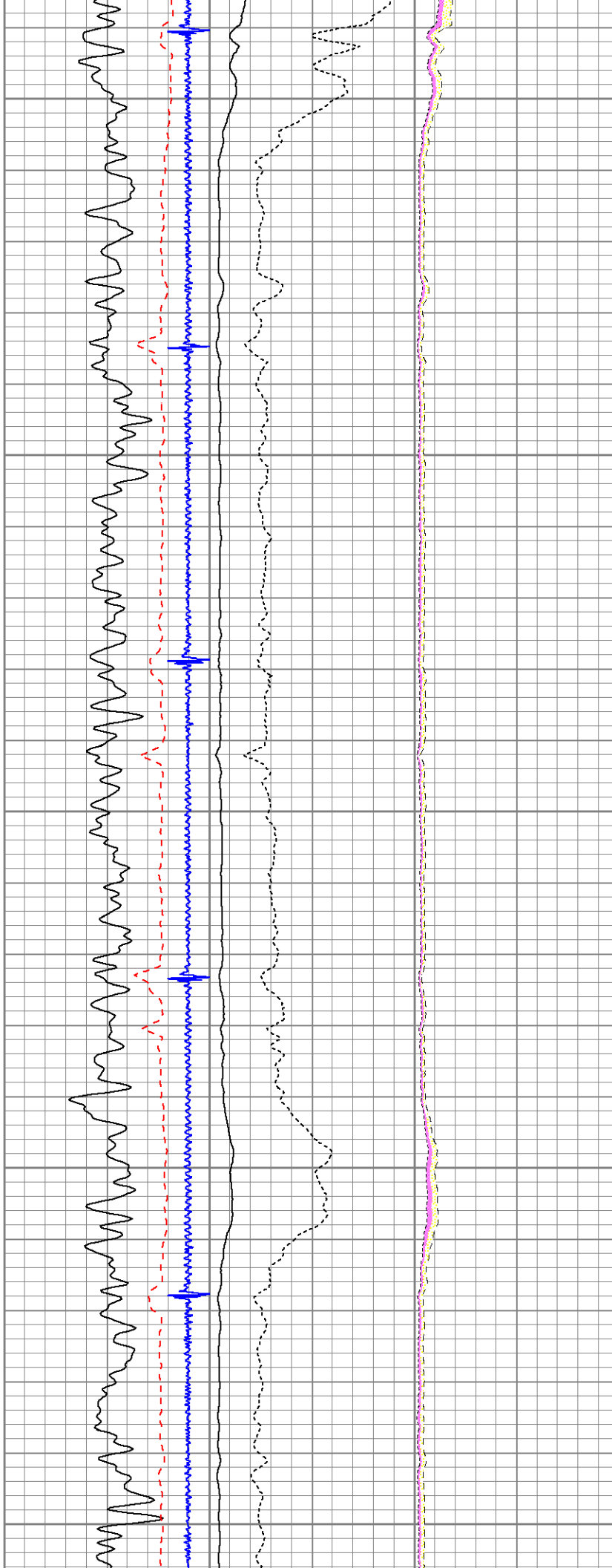
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3200



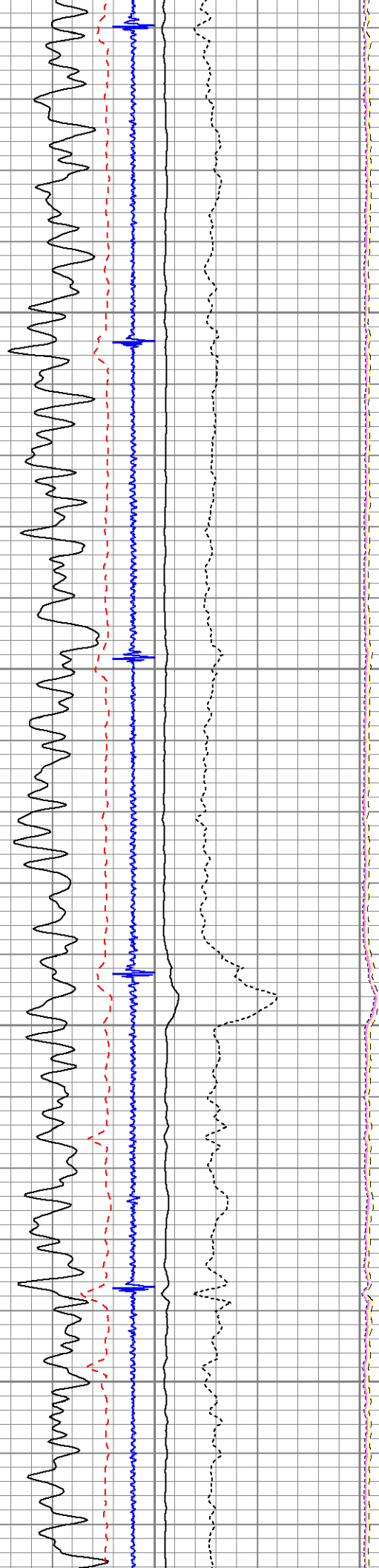
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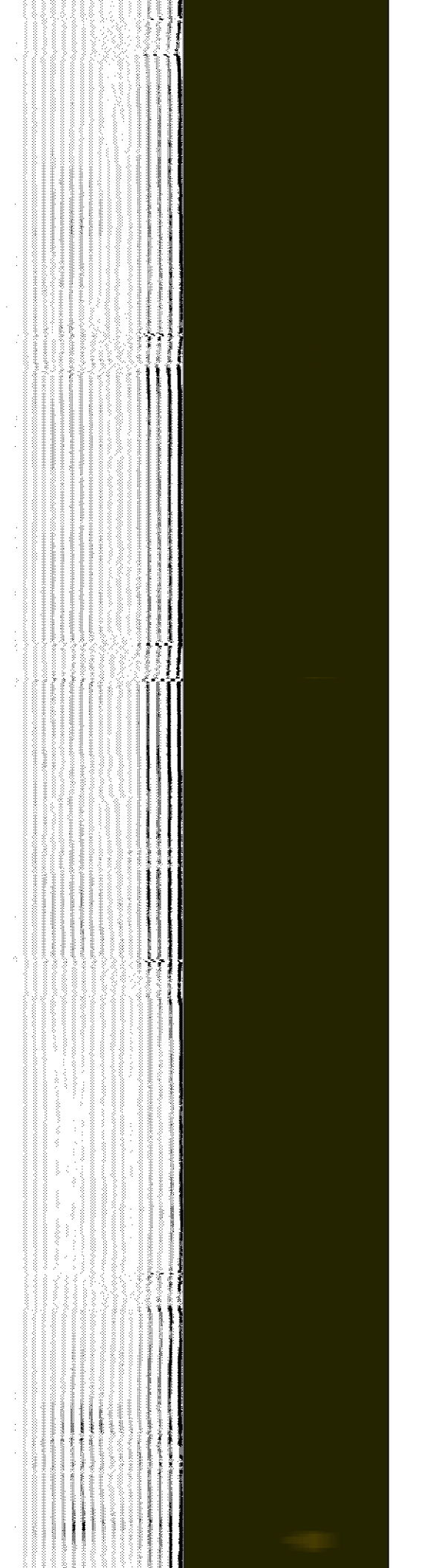
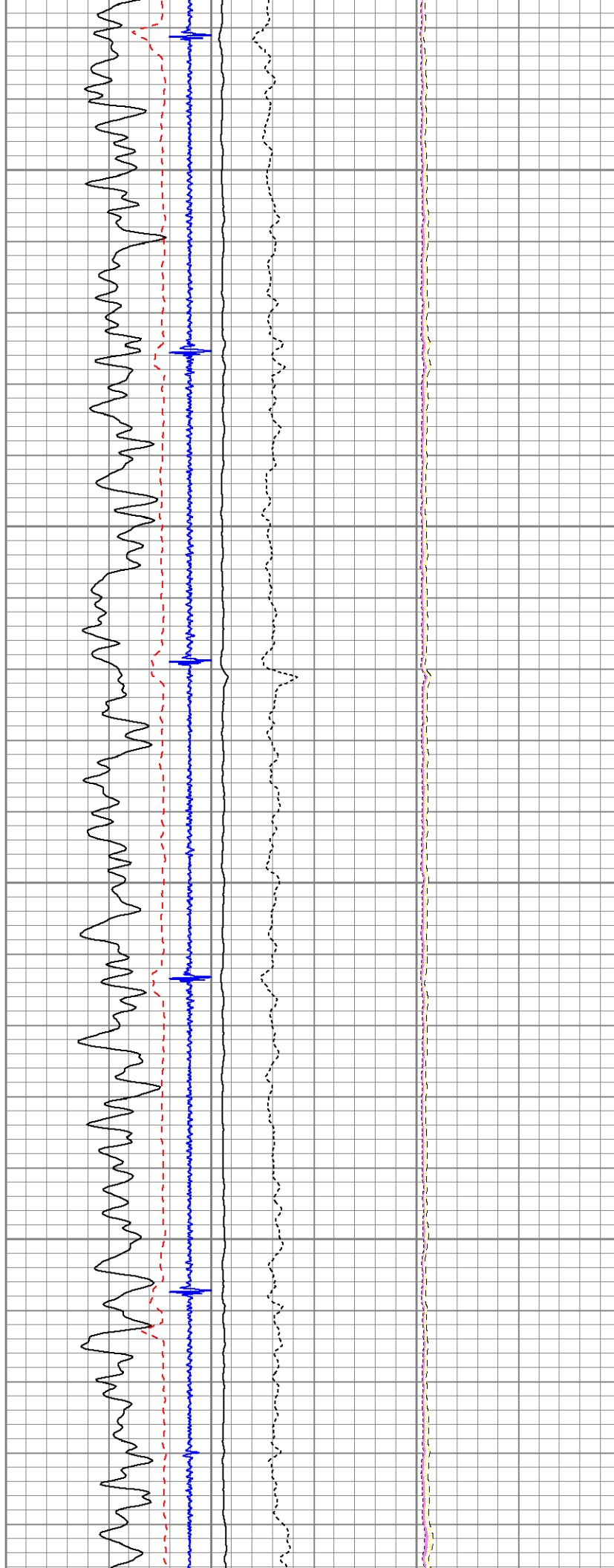
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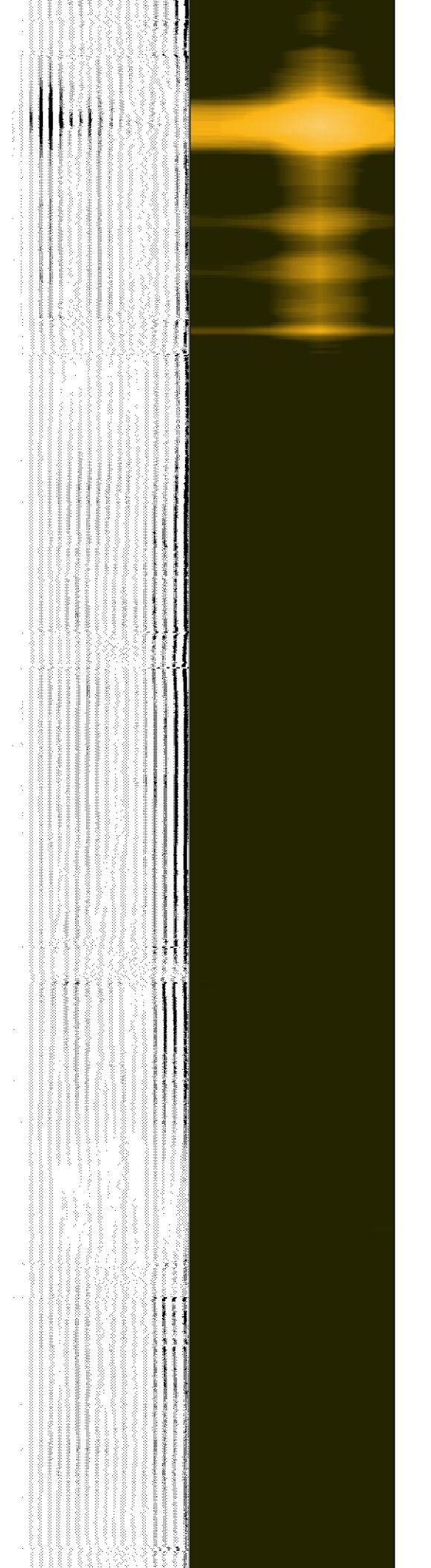
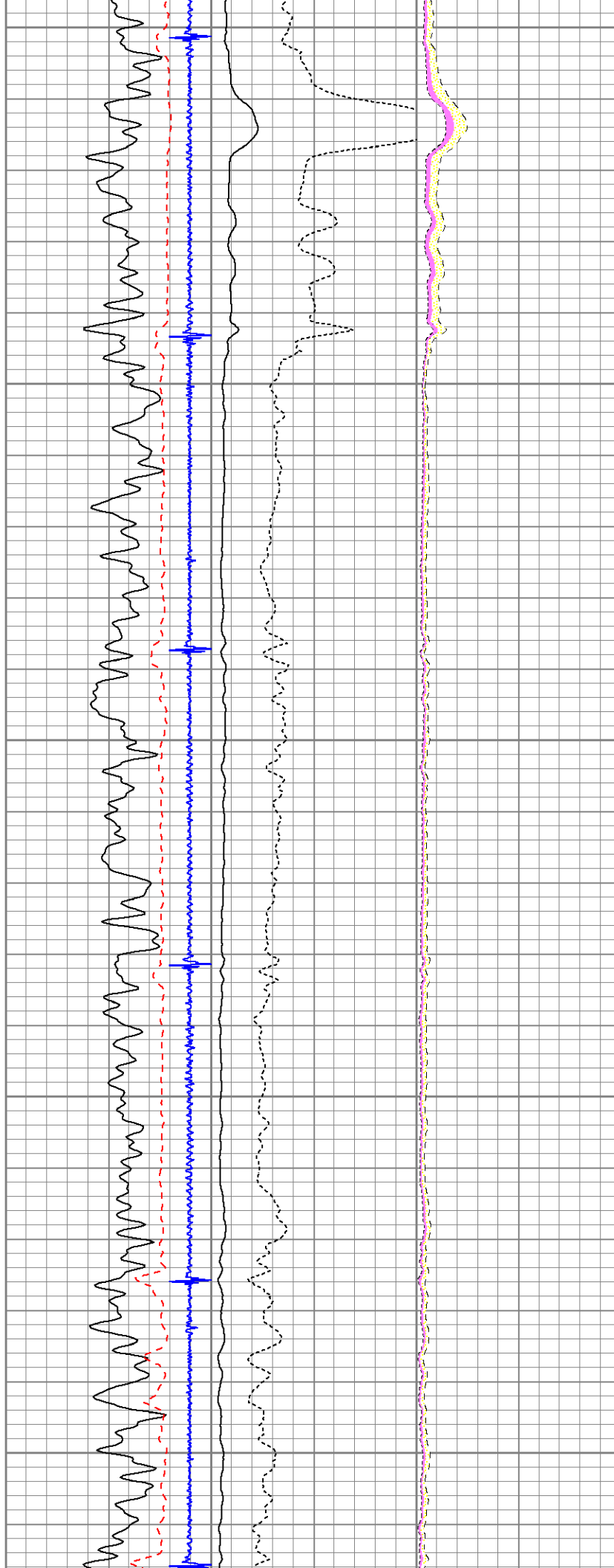
3800



3900

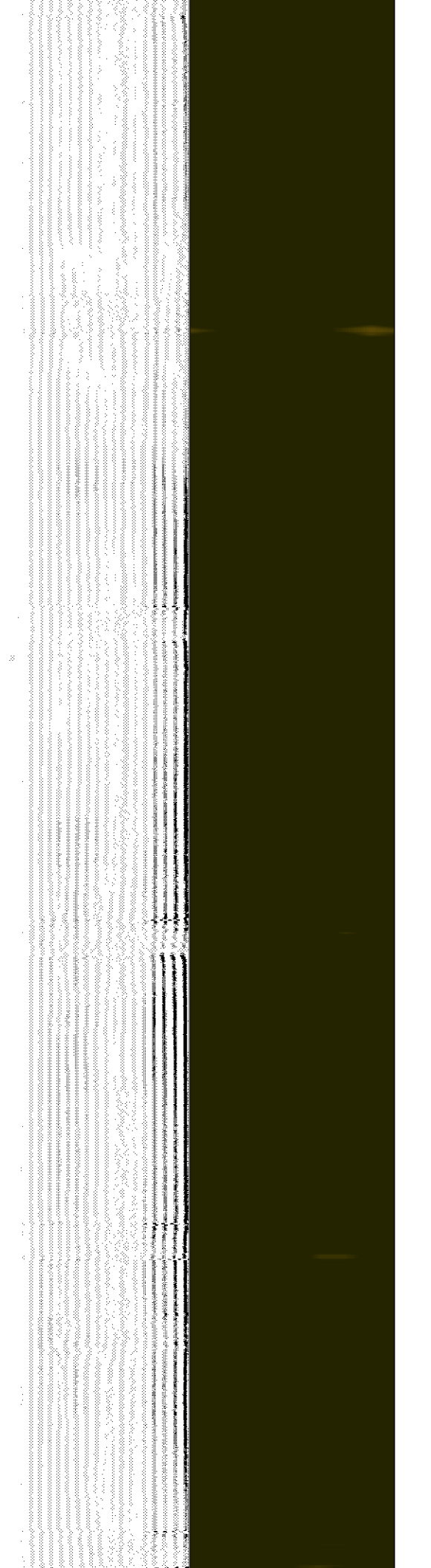
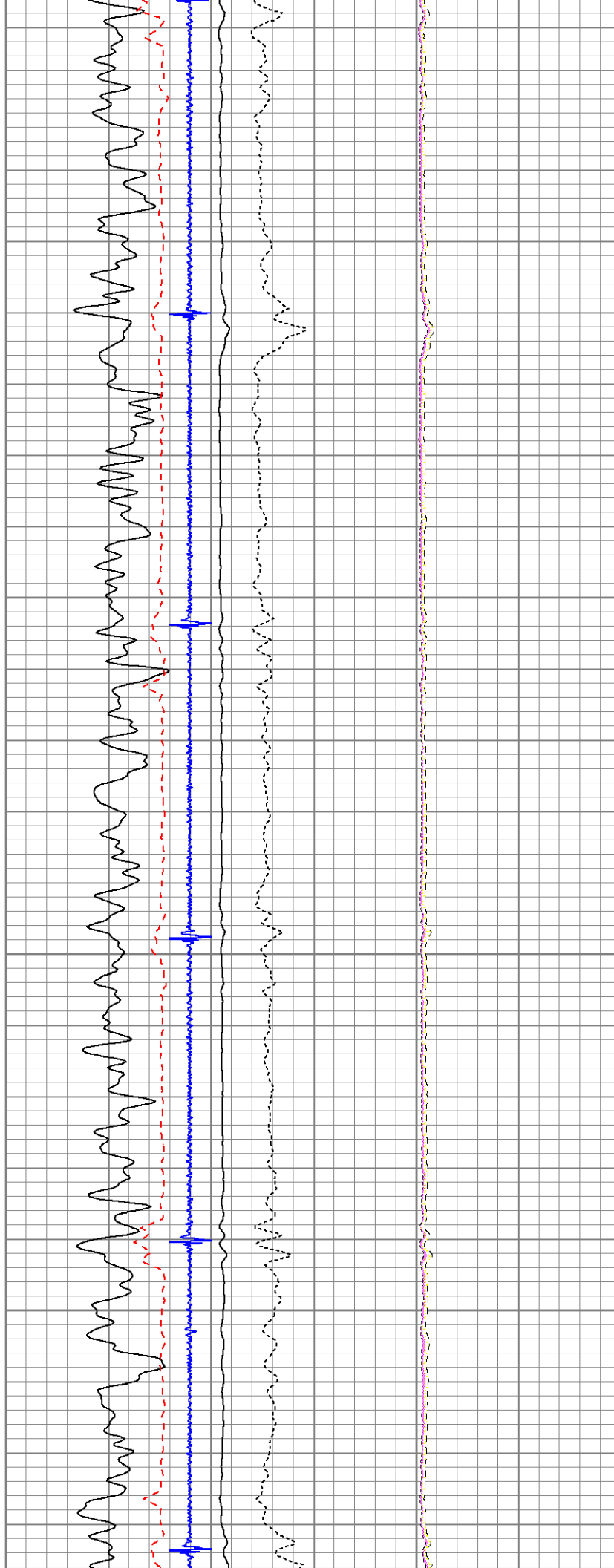
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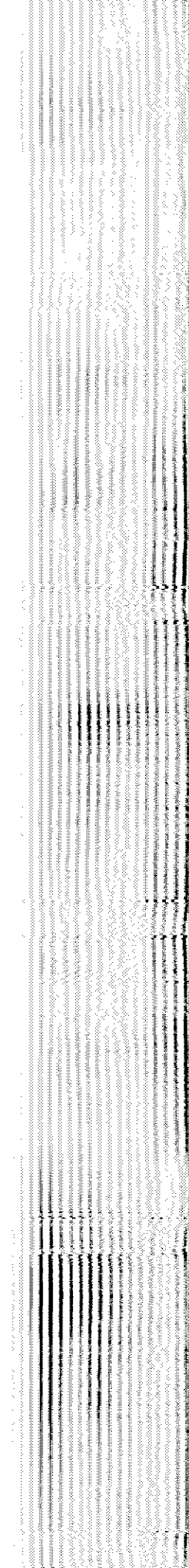
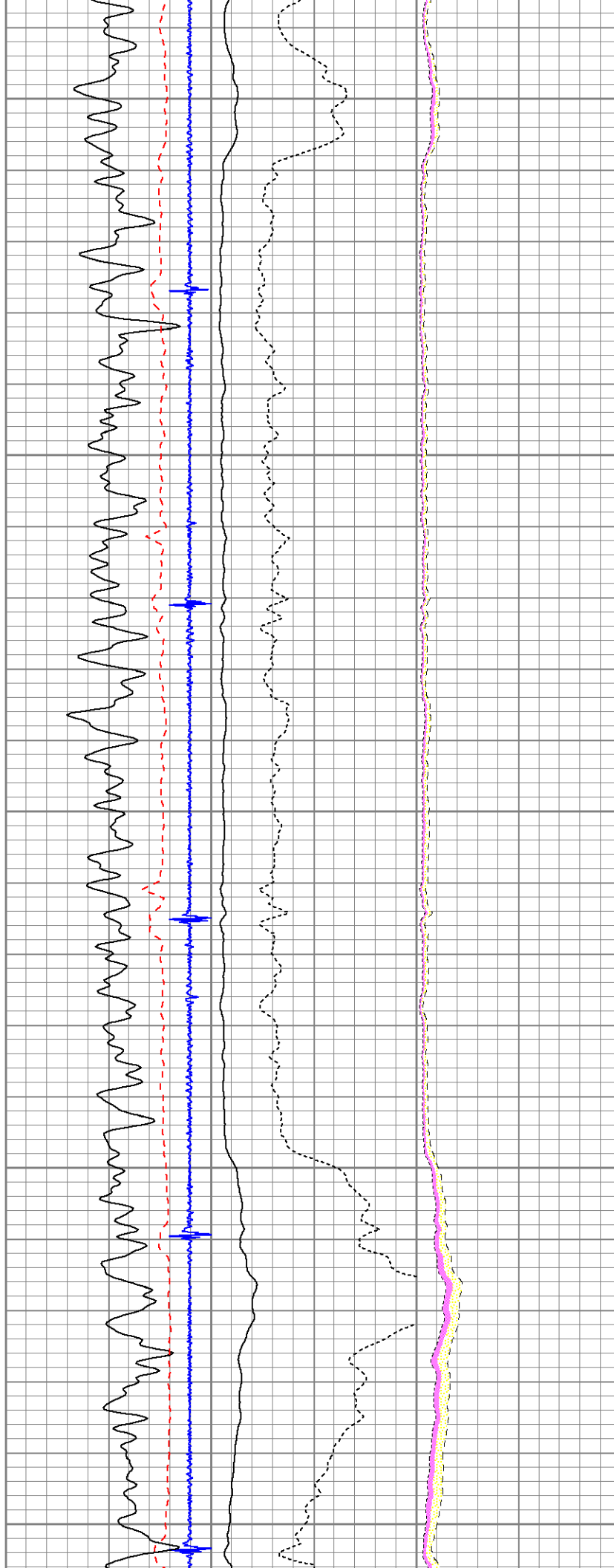
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4300



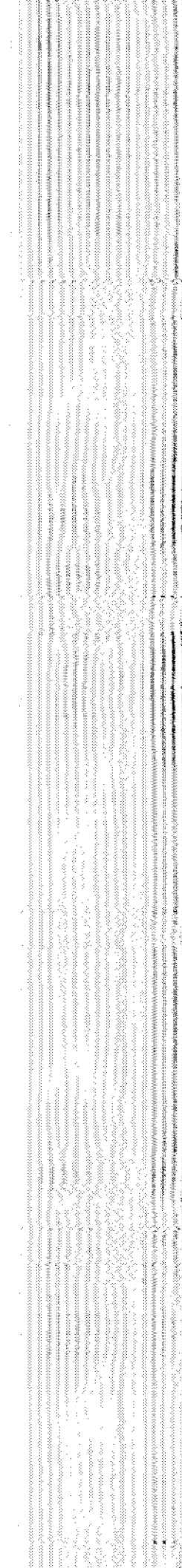
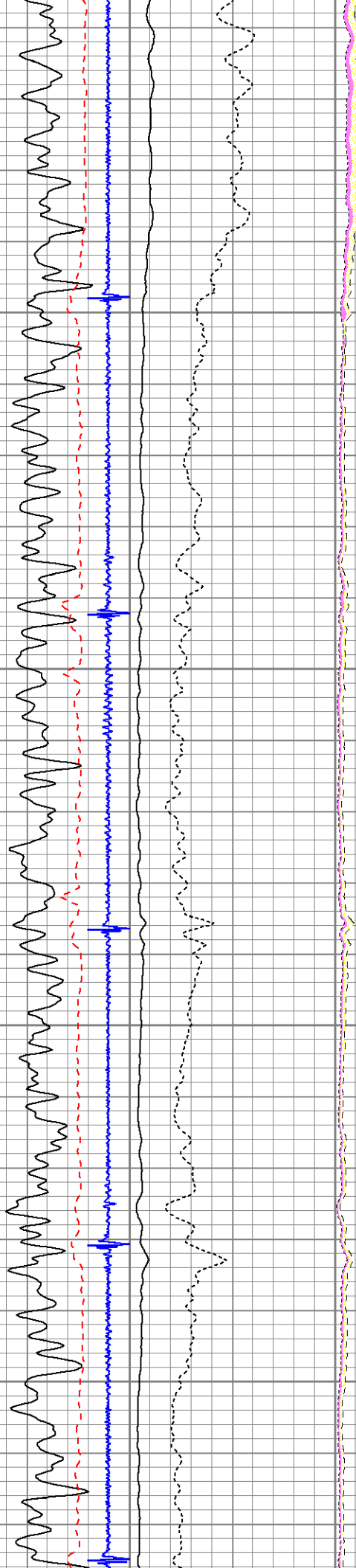
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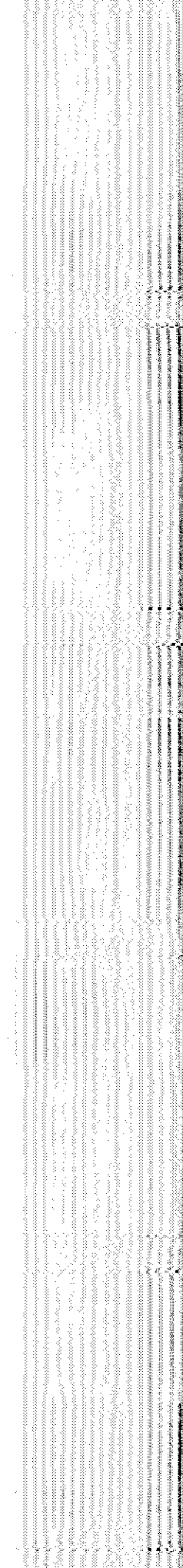
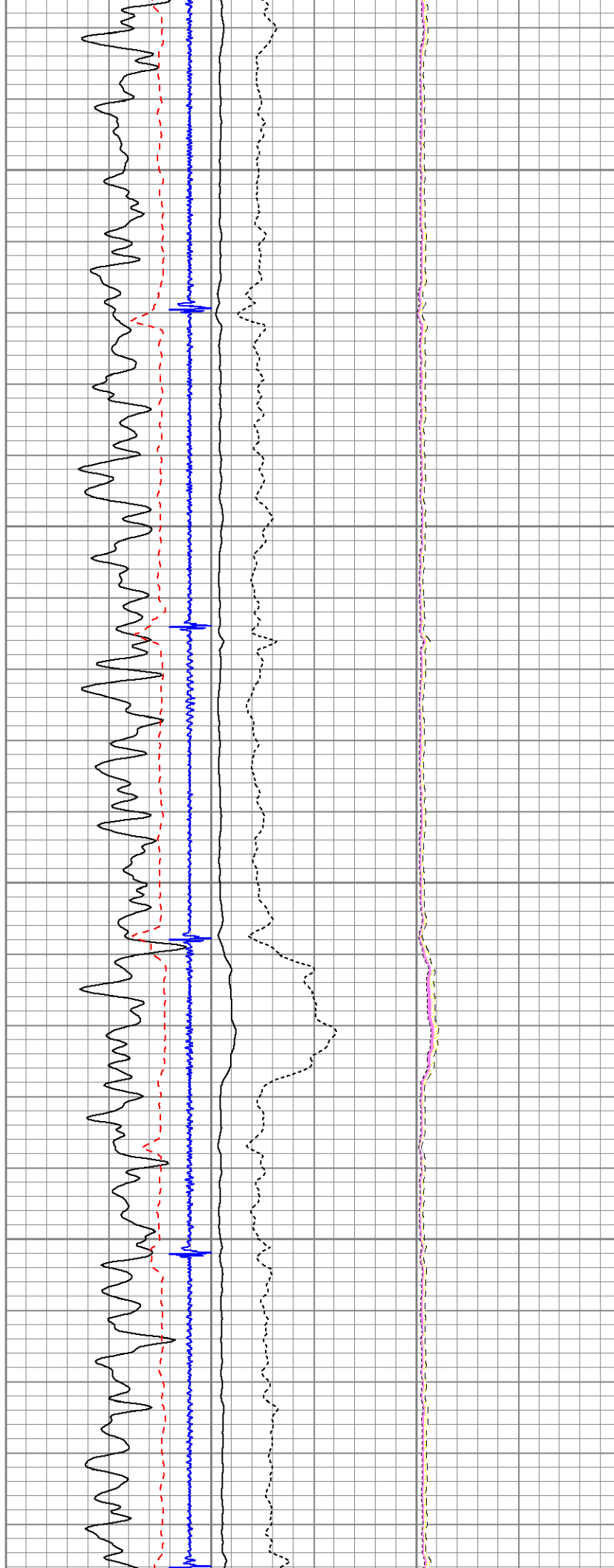
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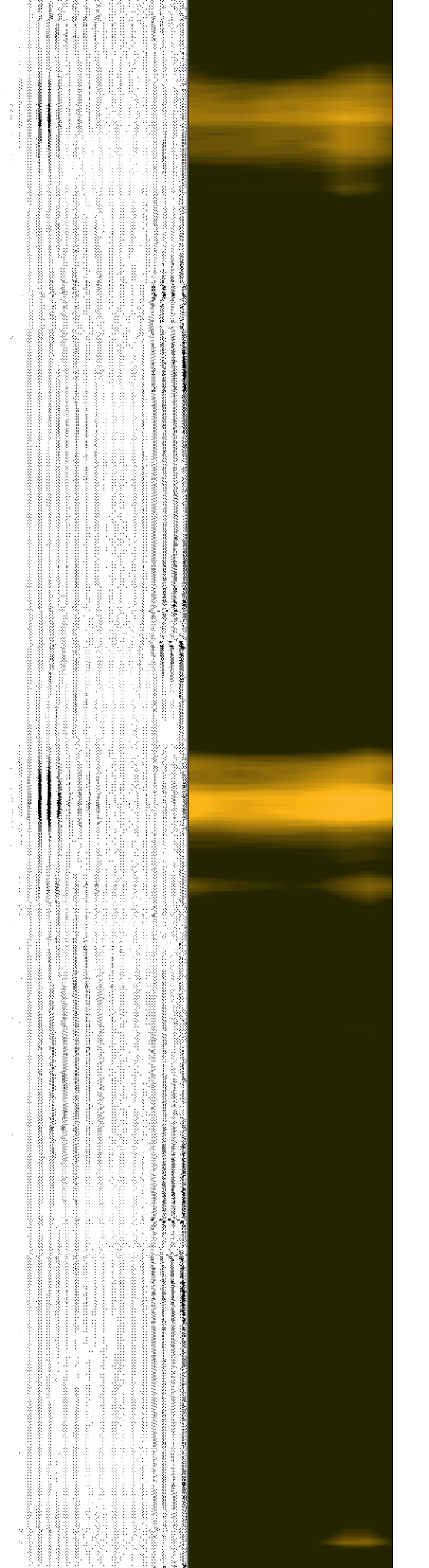
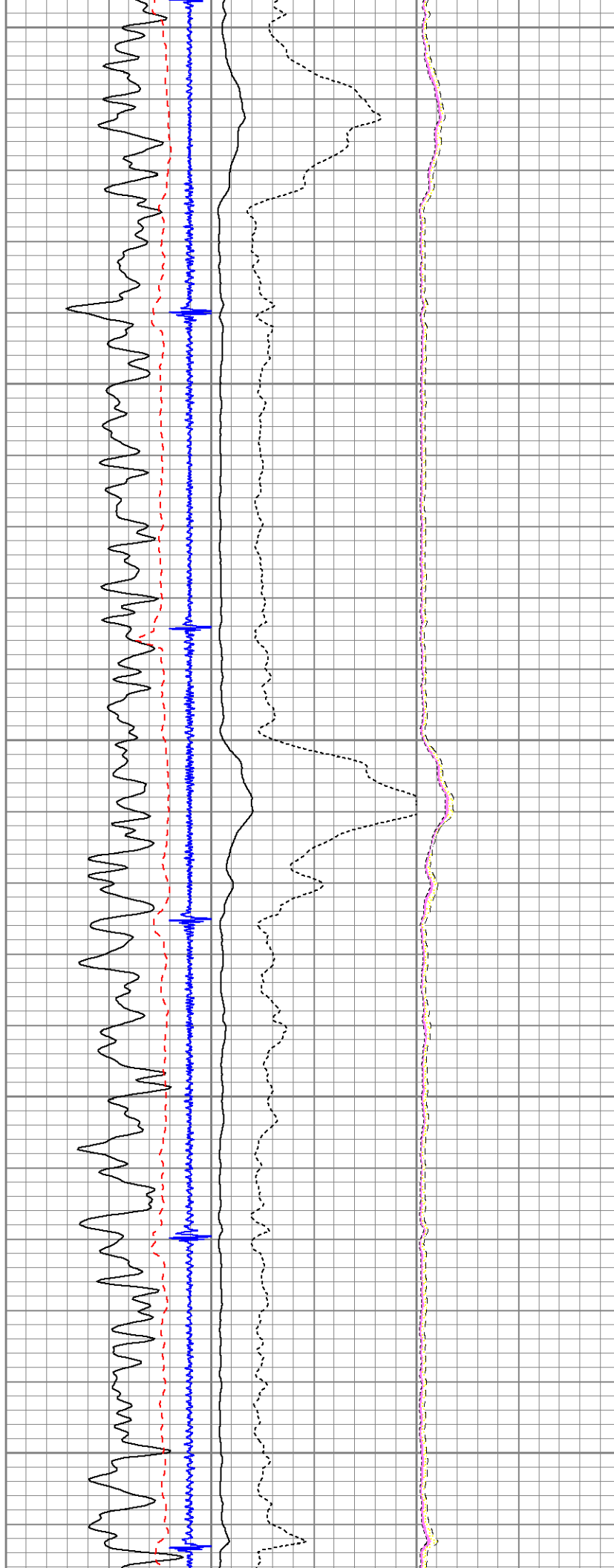
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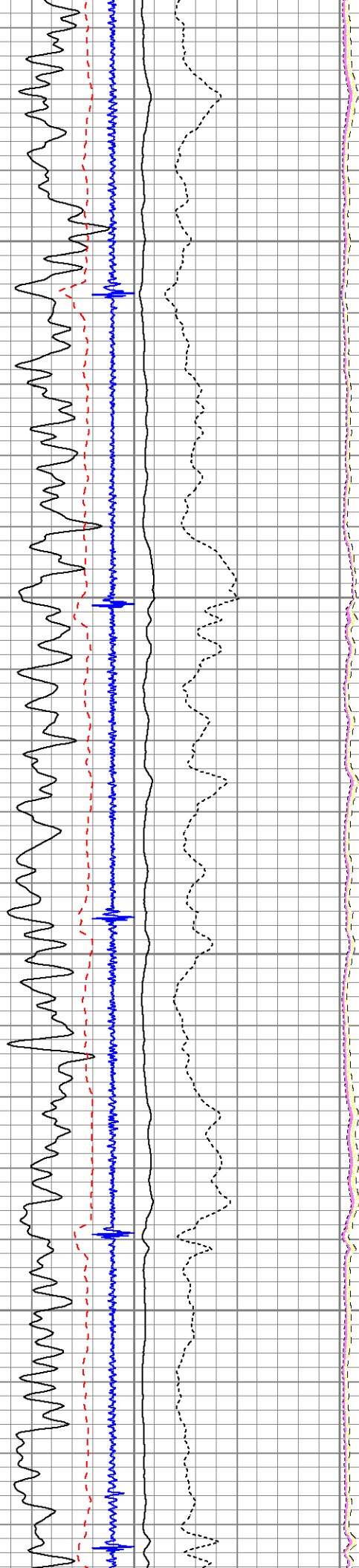
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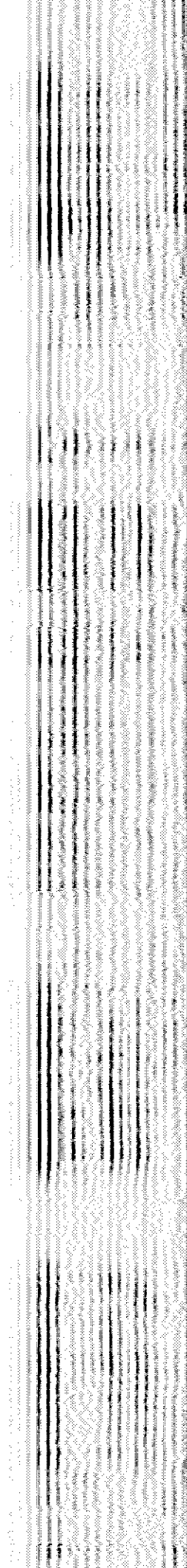
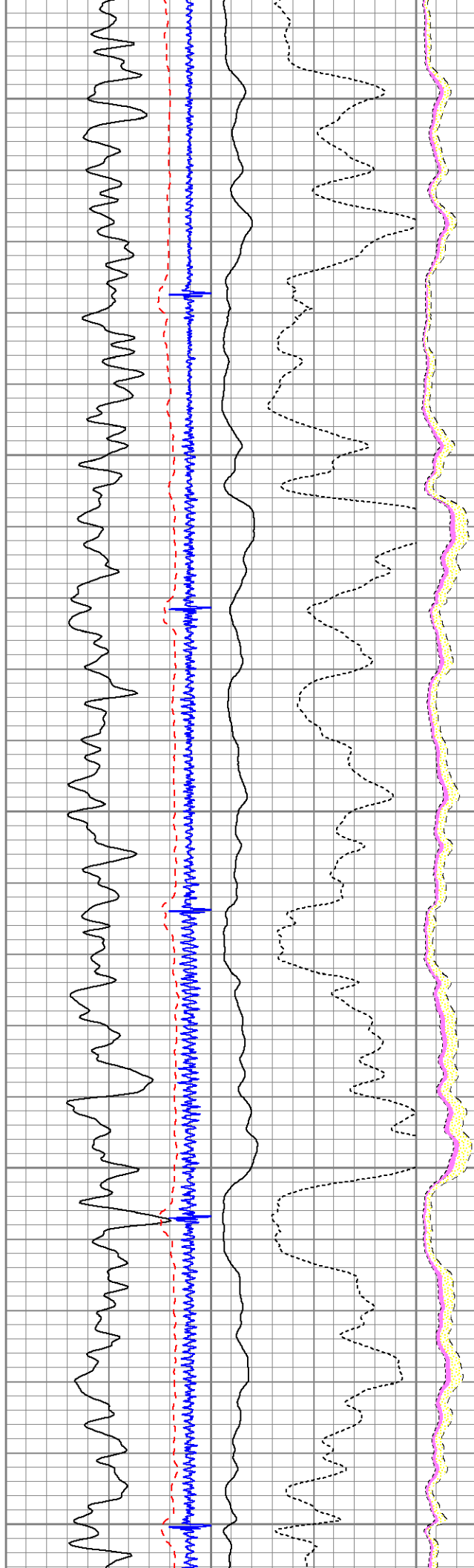
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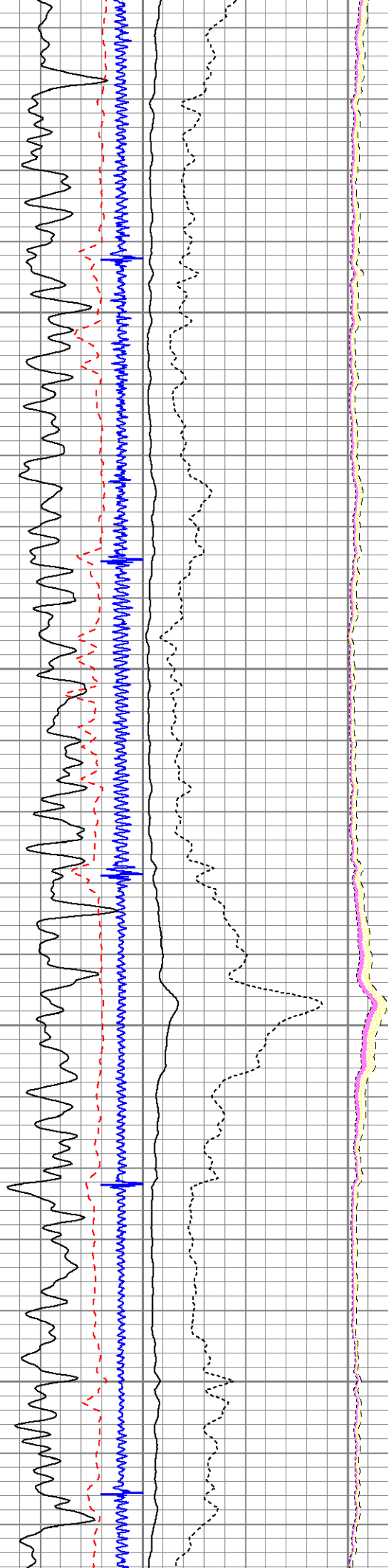
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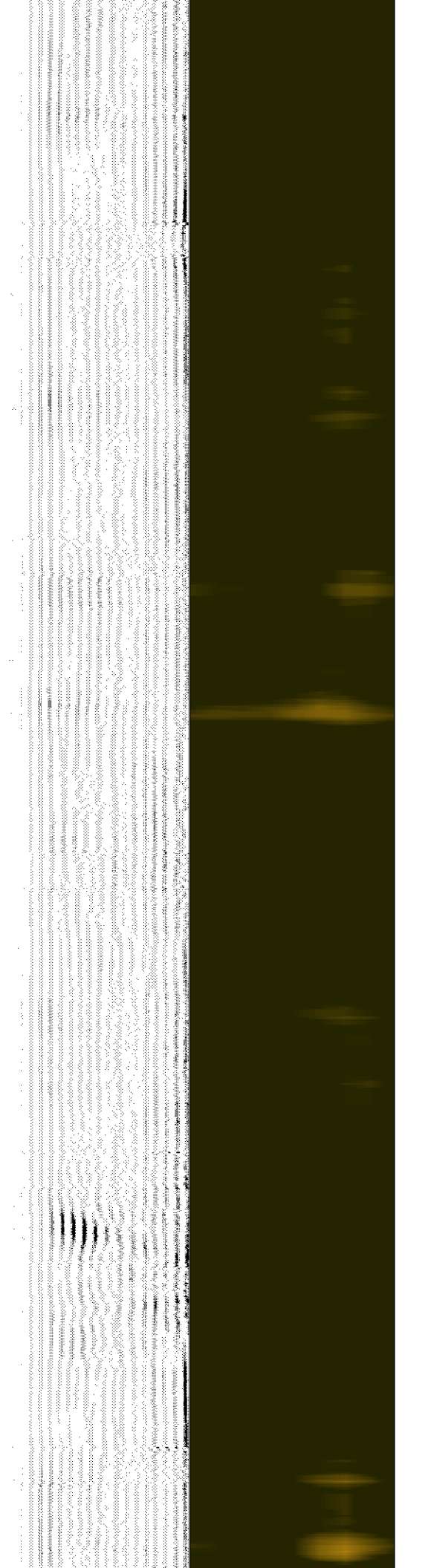
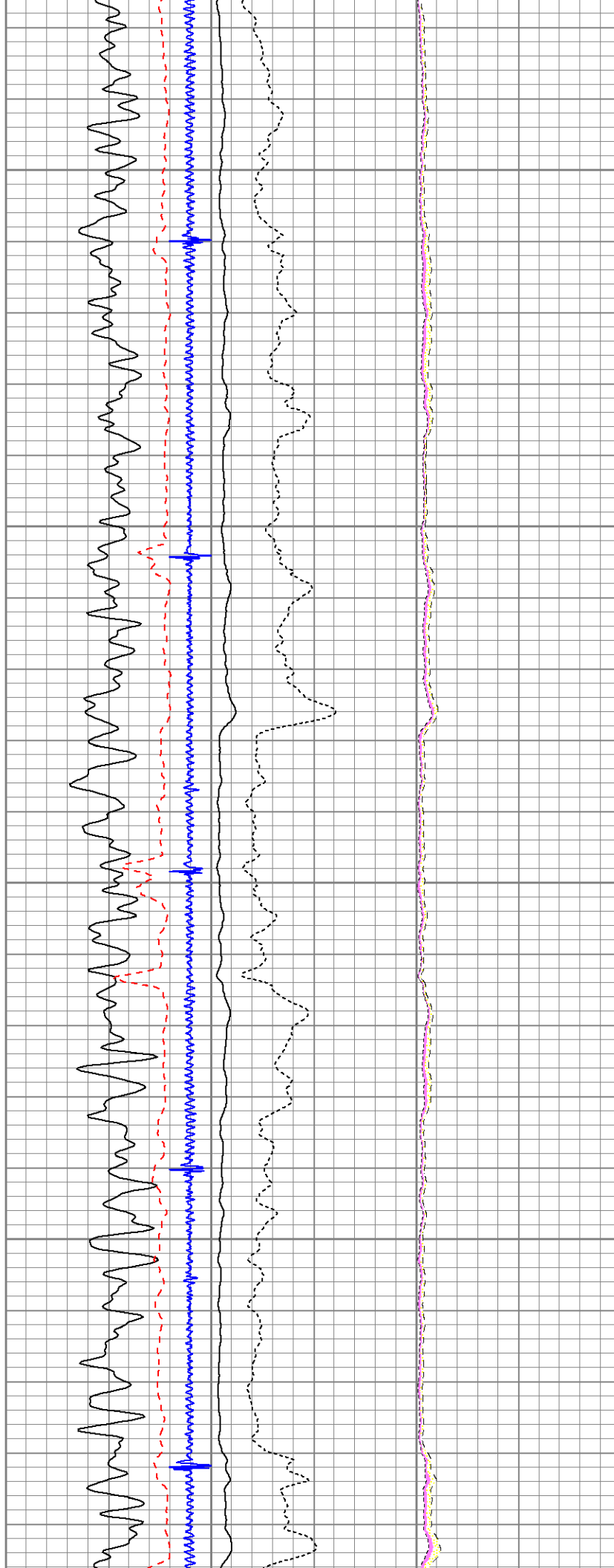
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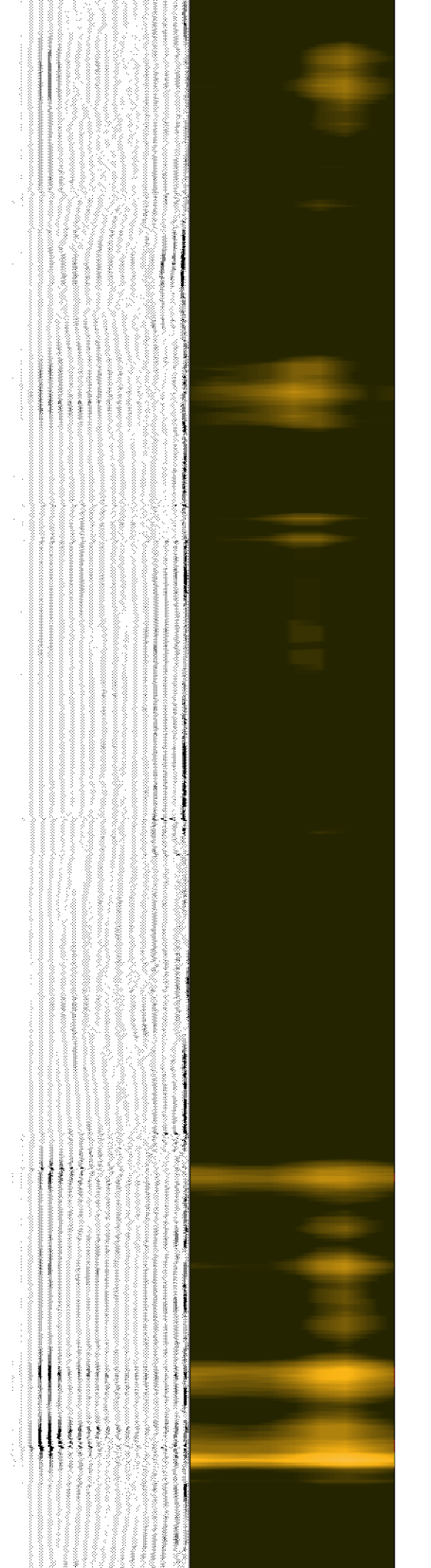
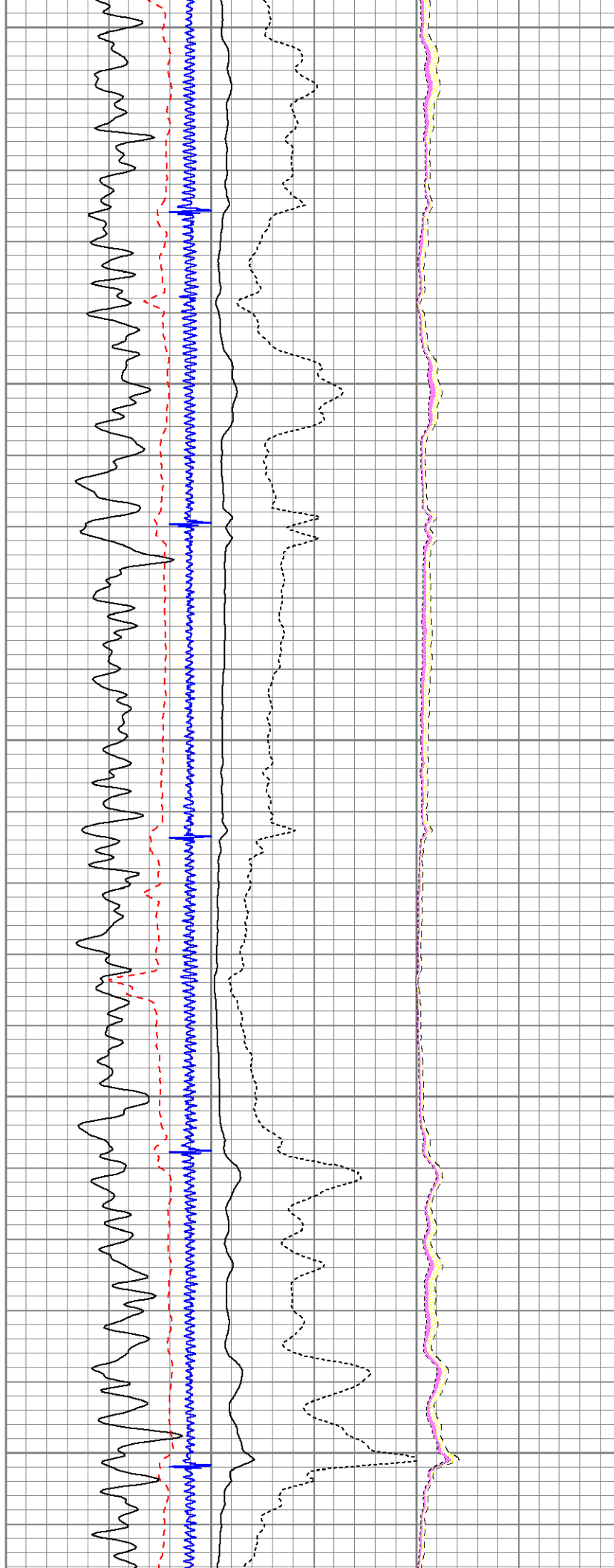
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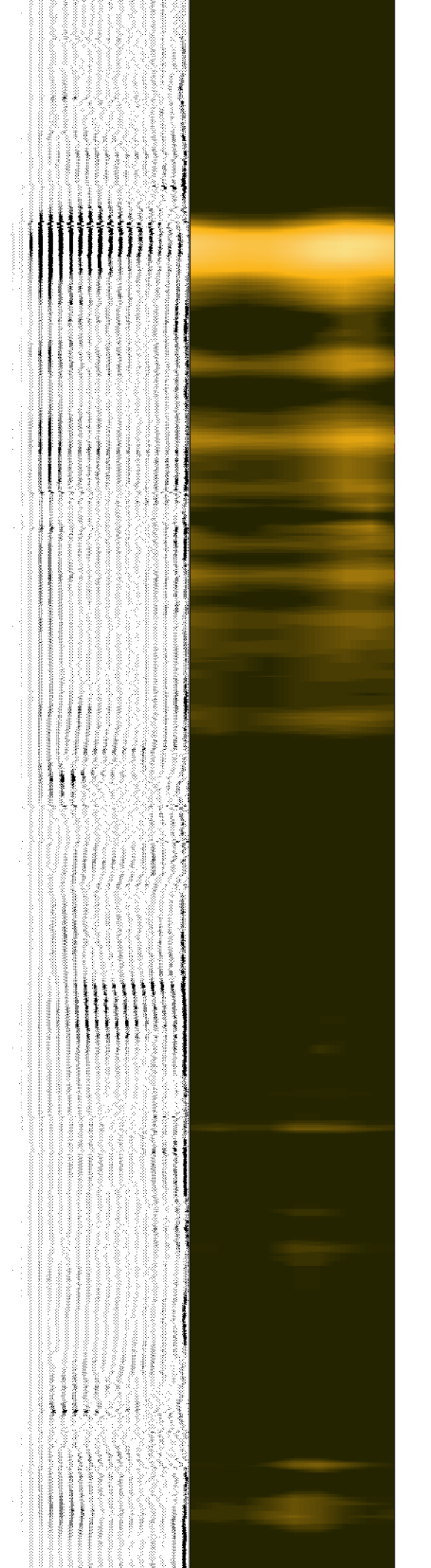
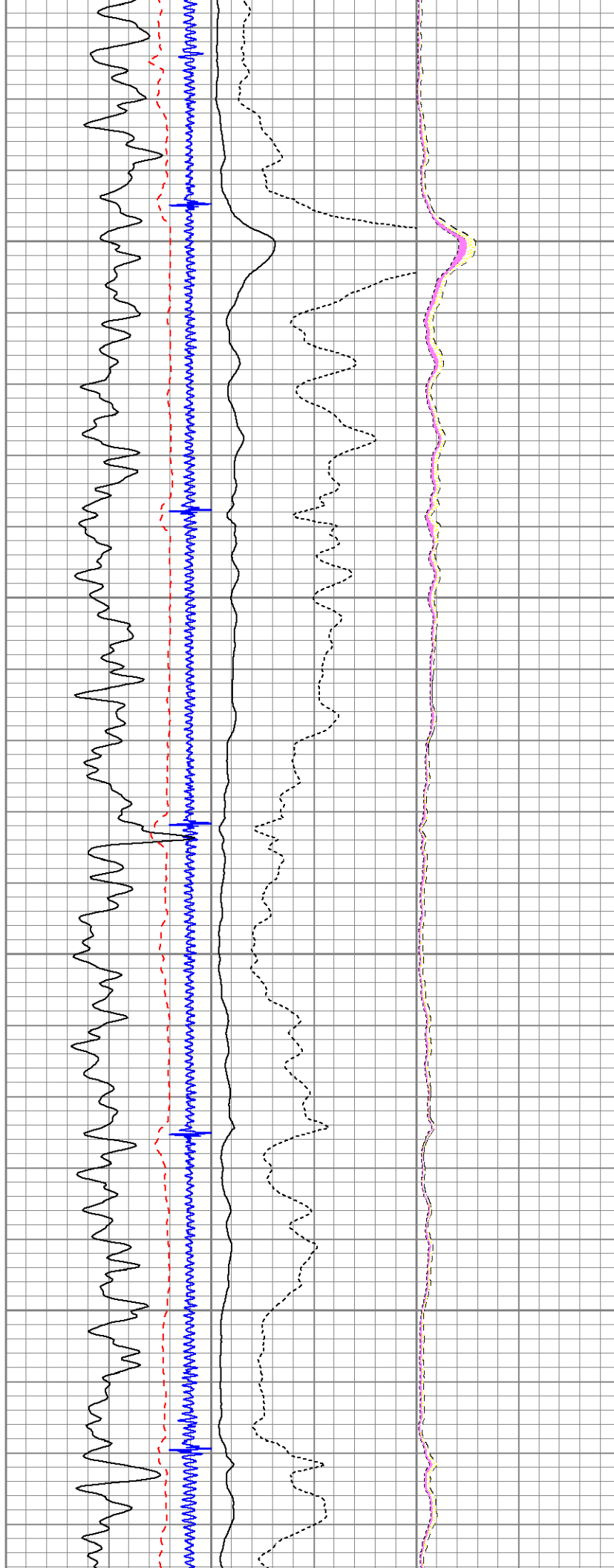
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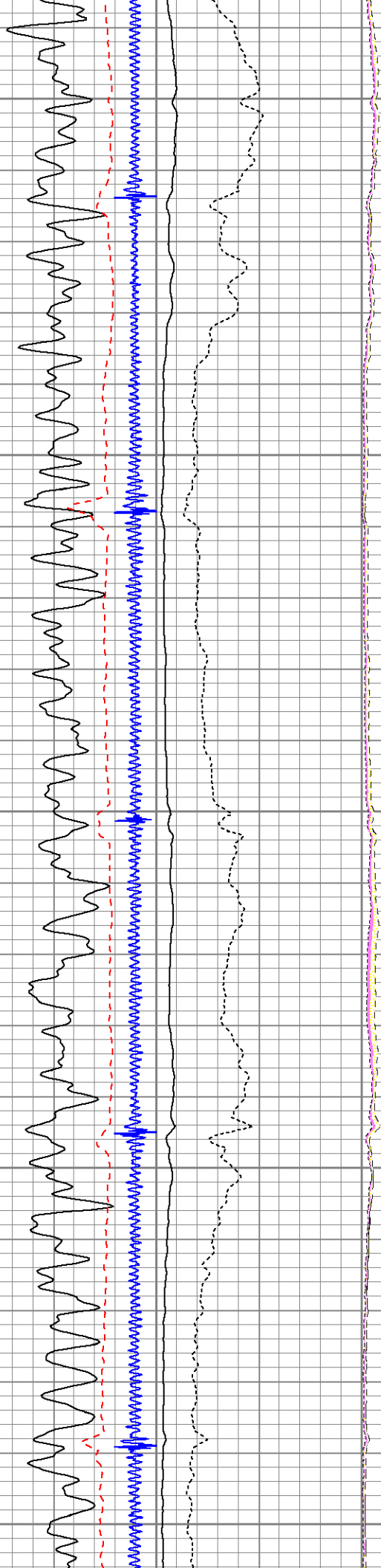
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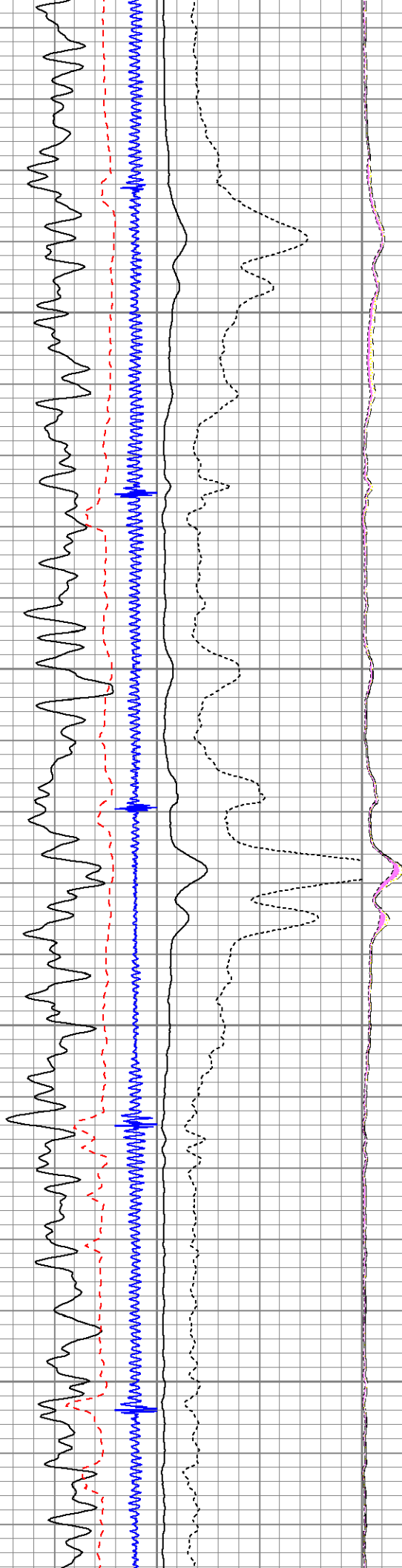
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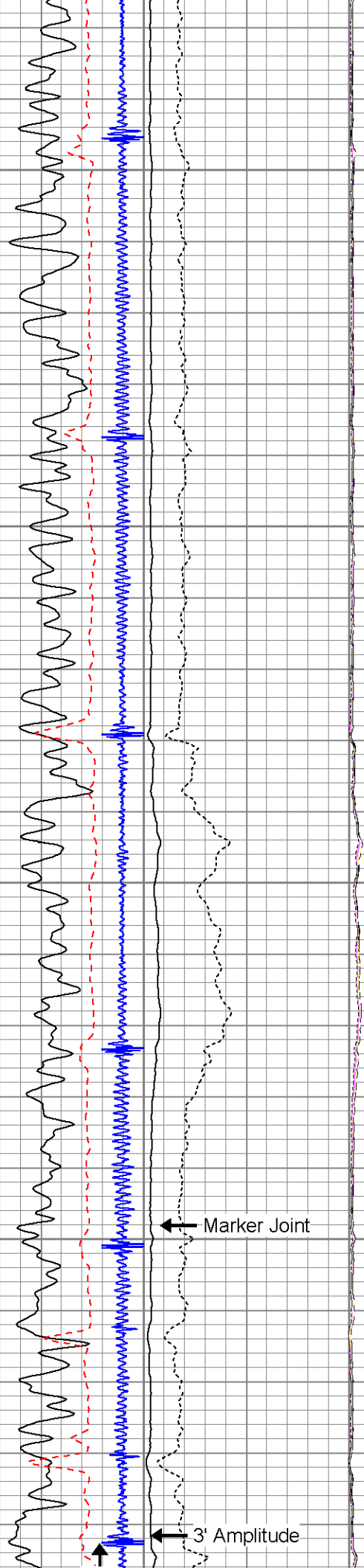
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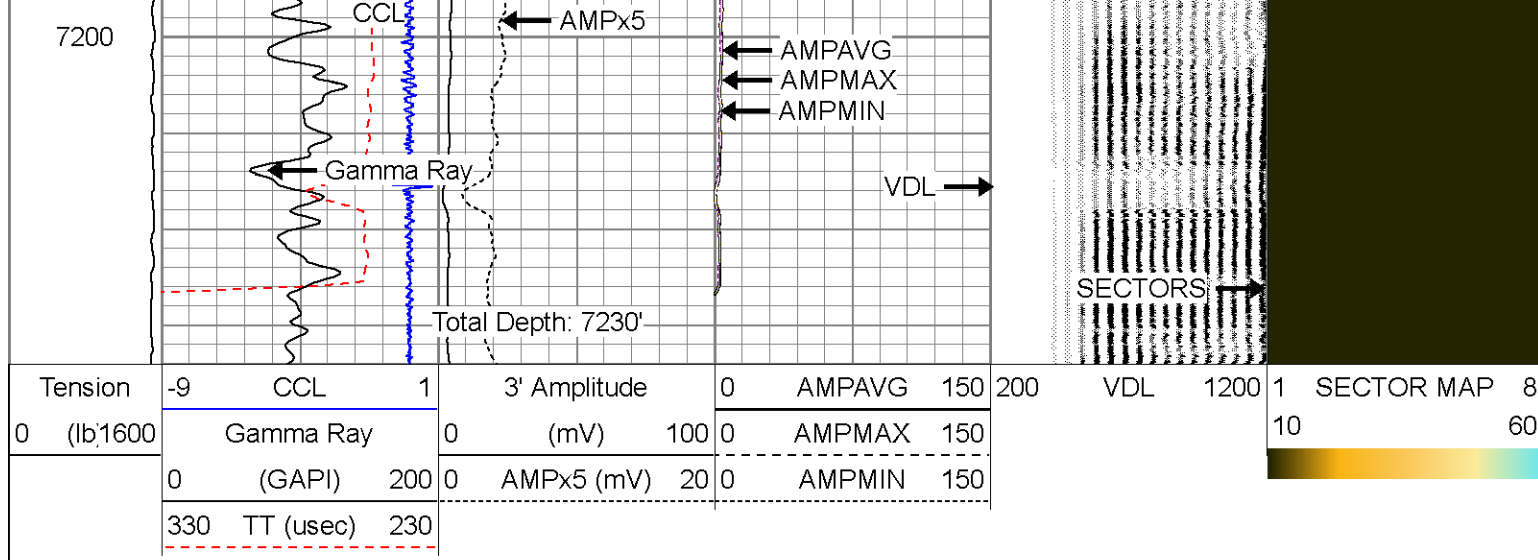
7000

7100



Marker Joint

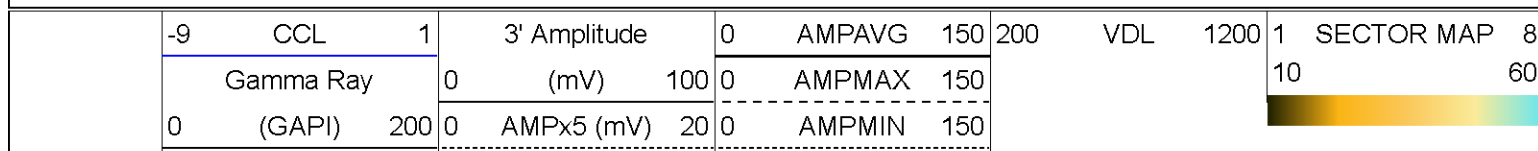
3' Amplitude



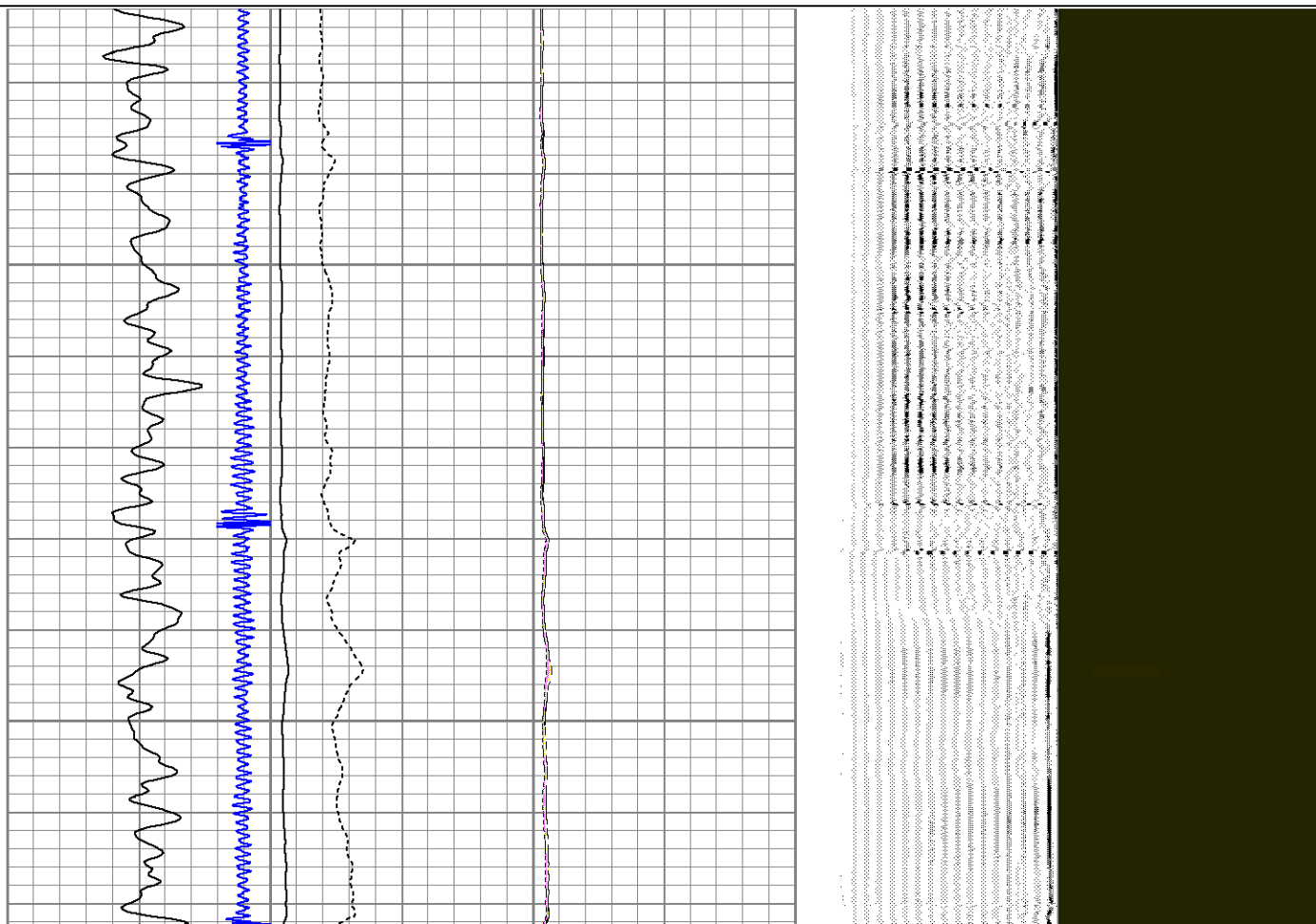
Pioneer Energy Services

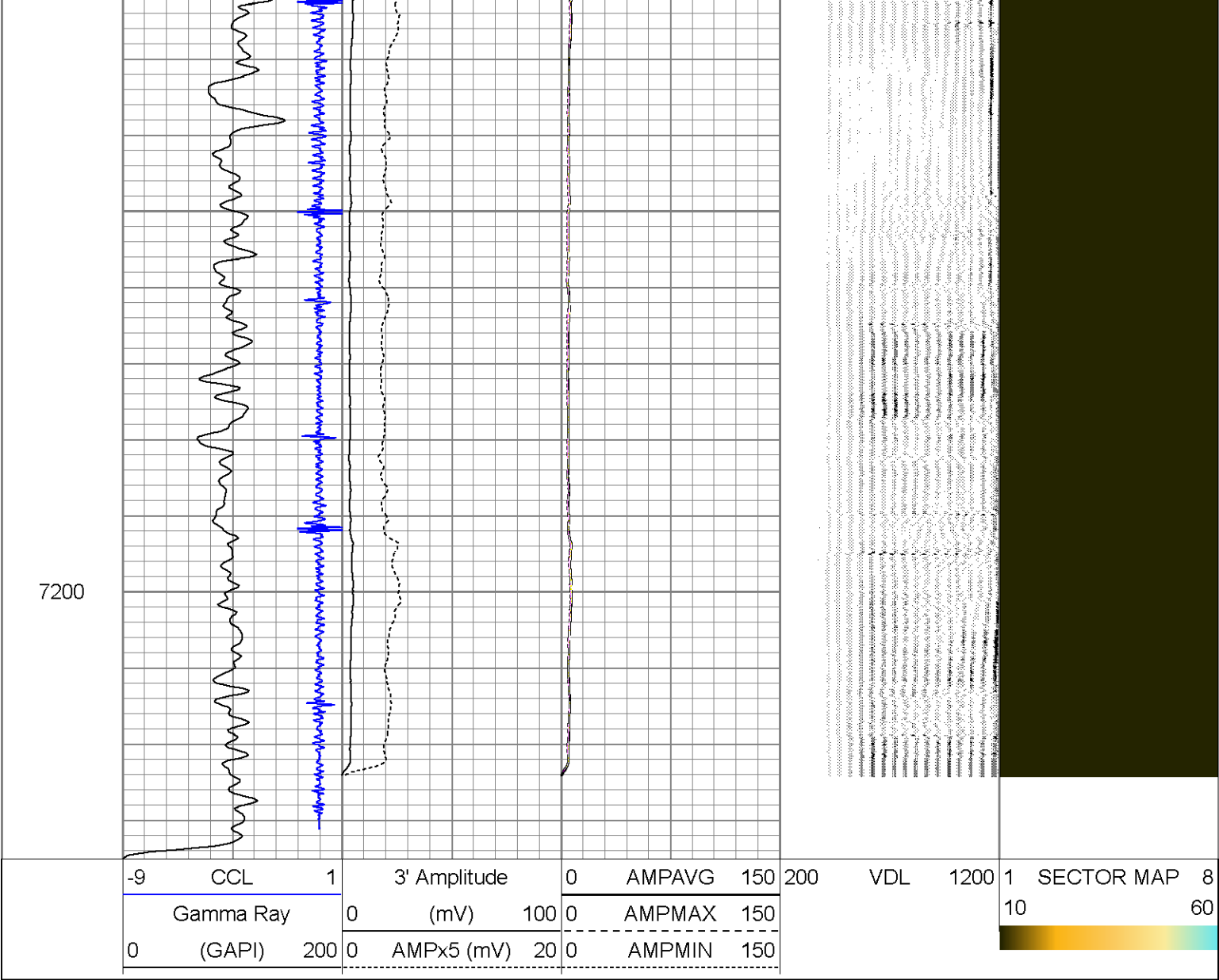
REPEAT PASS

Database File: state elbert 1h.db
 Dataset Pathname: rbl/pass2
 Presentation Format: scbl02
 Dataset Creation: Sun Sep 21 11:02:52 2014 by Log 7.0 B1
 Charted by: Depth in Feet scaled 1:240



7100





Calibration Report		
Database File:	state elbert 1h.db	
Dataset Pathname:	rbl/pass1	
Dataset Creation:	Sun Sep 21 10:36:47 2014 by Log 7.0 B1	

Gamma Ray Calibration Report		
Serial Number:	11205	
Tool Model:	Probe	
Performed:	Fri Sep 05 09:40:36 2014	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.0000	GAPI/cps

Segmented Cement Bond Log Calibration Report		
Serial Number:	111205	
Tool Model:	Probe275	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	110.000	ft

Master Calibration, performed Fri Sep 12 11:05:59 2014:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.000	0.990	0.000	71.921	72.648	0.000
CAL	0.000	1.006				
5'	0.000	0.913	0.000	71.921	78.739	0.000
SUM						
S1	0.000	0.981	0.000	100.000	101.973	0.000
S2	0.000	0.993	0.000	100.000	100.687	0.000
S3	0.000	0.996	0.000	100.000	100.444	0.000
S4	0.000	1.013	0.000	100.000	98.744	0.000
S5	0.000	1.034	0.000	100.000	96.721	0.000
S6	0.000	1.033	0.000	100.000	96.790	0.000
S7	0.000	1.029	0.000	100.000	97.143	0.000
S8	0.000	0.986	0.000	100.000	101.400	0.000

Internal Reference Calibration, performed Sun Sep 07 07:50:37 2014:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.000	1.006	1.000	0.000

Air Zero Calibration, performed Sun Sep 07 07:55:19 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	



Company CONOCO PHILLIPS CO
Well STATE ELBERT 1H
Field WILDCAT
County ARAPAHOE
State CO