

CEMENT BOND LOG  
GAMMA RAY / CCL

Company	GREAT WESTERN OPERATING			Country	U.S.A.
Well	SCHNEIDER SOUTH HD11-392HN				
Field	WATTENBERG				
County	WELD				
State	COLORADO				
Company	GREAT WESTERN OPERATING COMPANY LLC.				
Well	SCHNEIDER SOUTH HD11-392HN				
Field	WATTENBERG				
County	WELD				
State	COLORADO				
Country	U.S.A.				
Location:	API # : 05-123-41747			Other Services	
	SWSW			NONE	
Permanent Datum	G.L.			Elevation	
Log Measured From	K.B.				
Drilling Measured From	K.B.				
	G.L.				
Date	11-18-2015				
Run Number	ONE				
Depth Driller	14707'				
Depth Logger	7600'				
Bottom Logged Interval	7599'				
Top Log Interval	SURFACE				
Open Hole Size	N/A				
Type Fluid	WATER				
Density / Viscosity	N/A				
Max. Recorded Temp.	N/A				
Estimated Cement Top	4850'				
Time Well Ready	6:00AM				
Time Logger on Bottom	8:45AM				
Equipment Number	41			126	
Location	JOHNSTOWN				
Recorded By	WILLIAMS				
Witnessed By					
Run Number	Borehole Record			Tubing Record	
Bit	From	To	Size	Weight	From To
Casing Record	Size	Wgt/Ft	Top	Bottom	
Surface String					
Prot. String					
Production String					
Liner					

<<< Fold Here >>>

All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall 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 our general terms and conditions set out in our current Price Schedule.

Comments

NOTE: THIS LOG WAS NOT CORRELATED TO ANY OTHER LOG

MAIN PASS: 5" = 100'  
CSG PSI: STATIC

Calibration Report

Database File: 11182015\_greatwestern\_schneider\_hd11-392hn.db  
Dataset Pathname: down/merge4  
Dataset Creation: Wed Nov 18 10:56:35 2015

## Gamma Ray Calibration Report

Type / Serial:

Probe275dig / 080829

## SHOP CALIBRATION

Thu Apr 19 07:51:18 2012

	Counts/Sec.	Gain	Offset	Jig	Units
Background	0.0				cps
Calibrator	1.0				cps
		1.0000			GAPI/cps

## PRIMARY VERIFICATION

Background	0.0			cps
Calibrator	0.0			cps
Difference			0.0	GAPI

## BEFORE SURVEY VERIFICATION

Background	0.0			cps
Calibrator	0.0			cps
Difference			0.0	GAPI

## AFTER SURVEY VERIFICATION

Background	0.0			cps
Calibrator	0.0			cps
Difference			0.0	GAPI

## Cement Bond Log Calibration Report

Serial Number:	080430
Tool Model:	Digital
Performed:	Wed Nov 18 08:08:23 2015

Depth:	0	ft
Casing Diameter:	5.5	in

3' Spacing	5' Spacing
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Signal Zero:	2.5	1	mV
Calibrated Amplitude:	71.921	71.921	mV
Reading at Signal Zero:	0.0106201	0.0046875	V
Reading in Free Pipe:	0.568286	0.52915	V

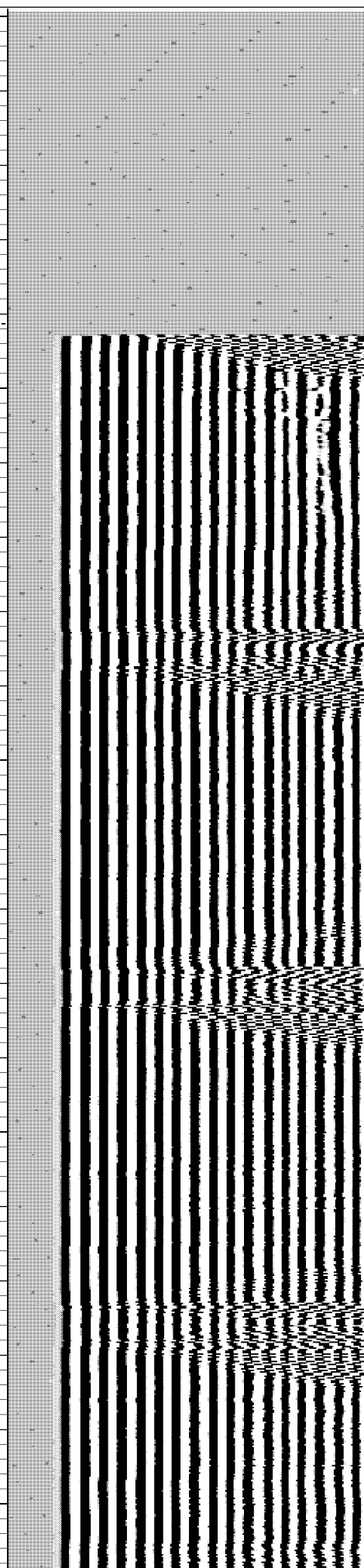
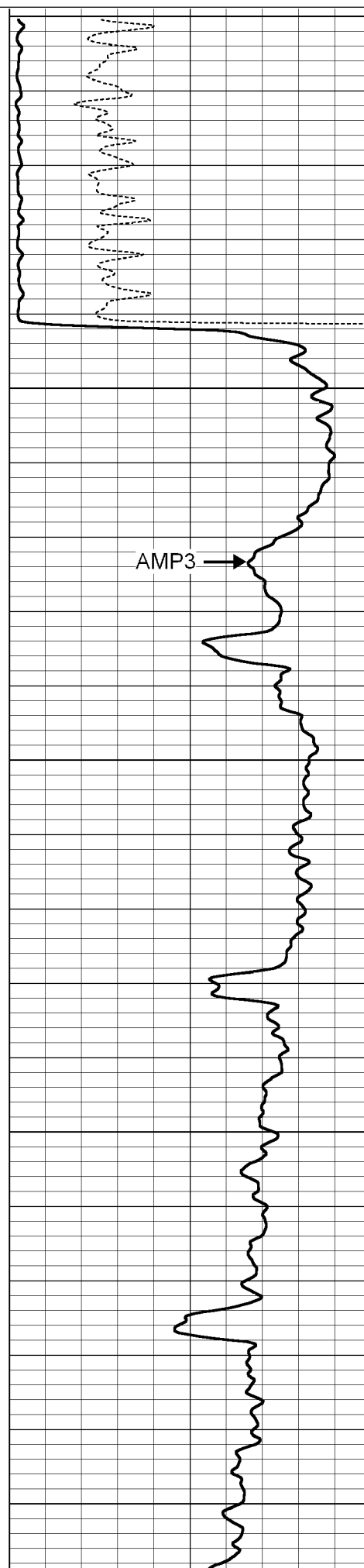
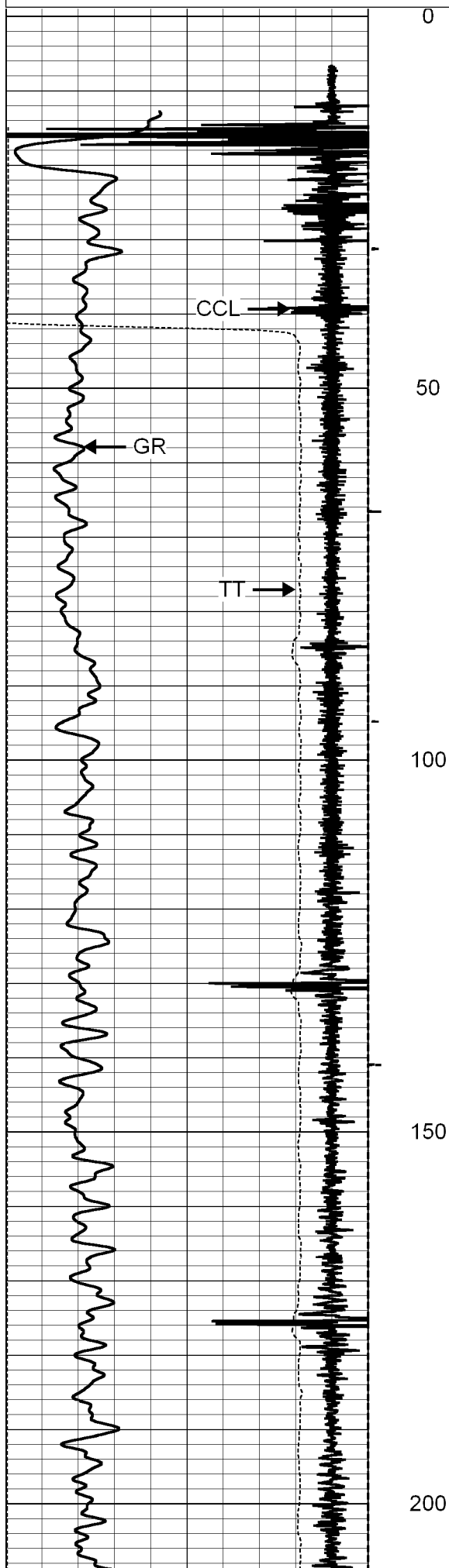
Gain:	124.485	135.226
Offset:	1.17796	0.366128

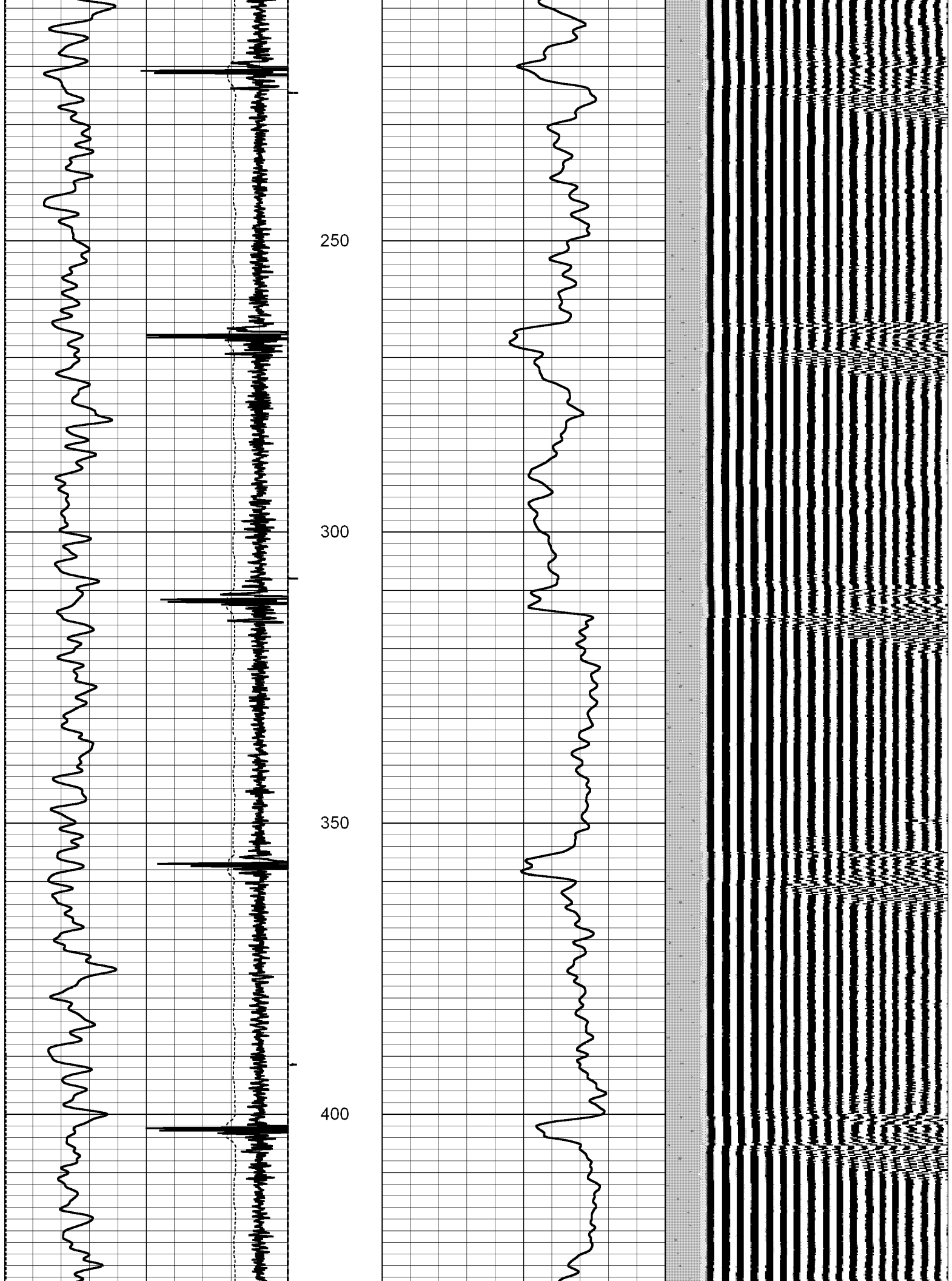


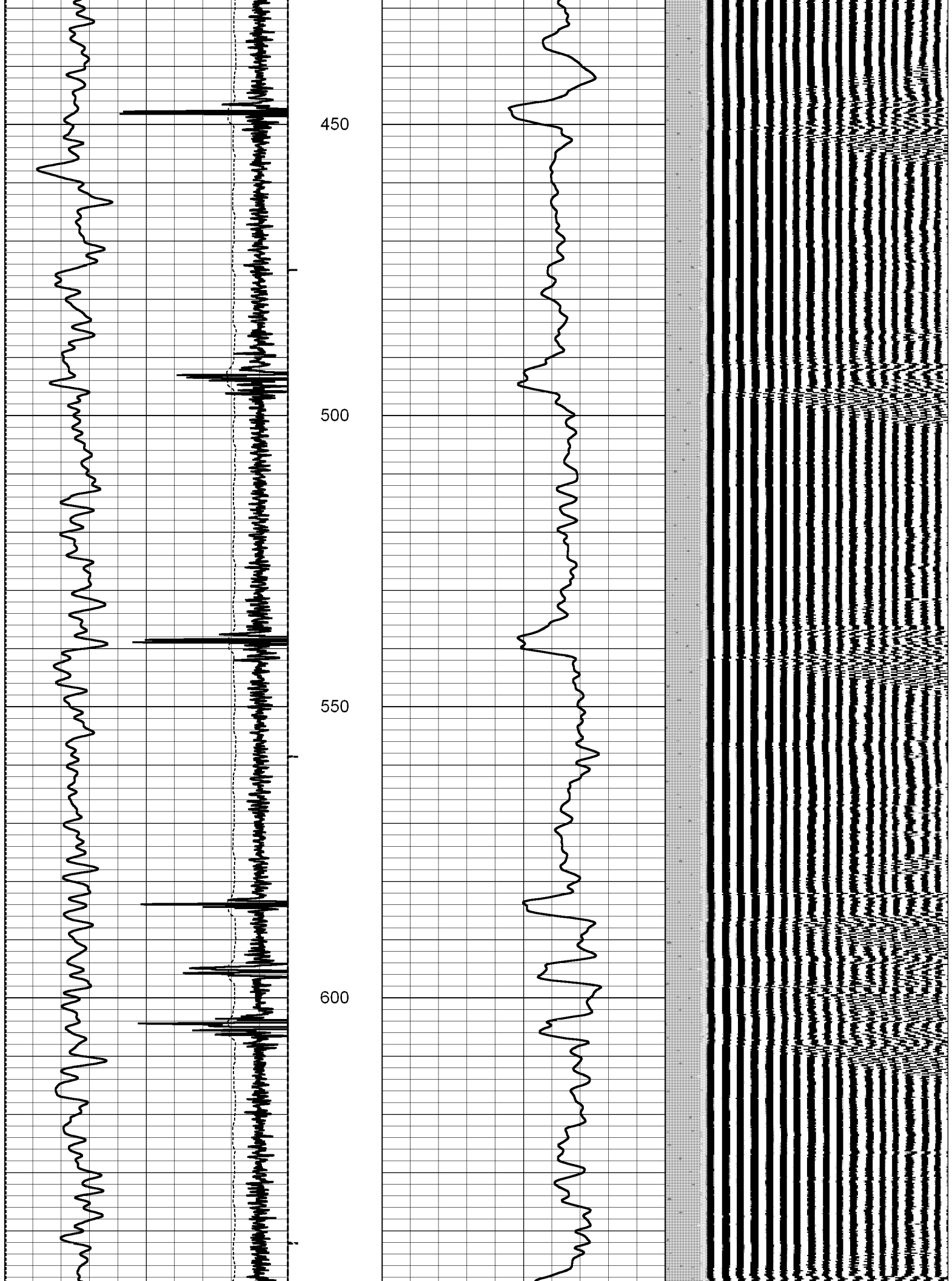
MAIN PASS

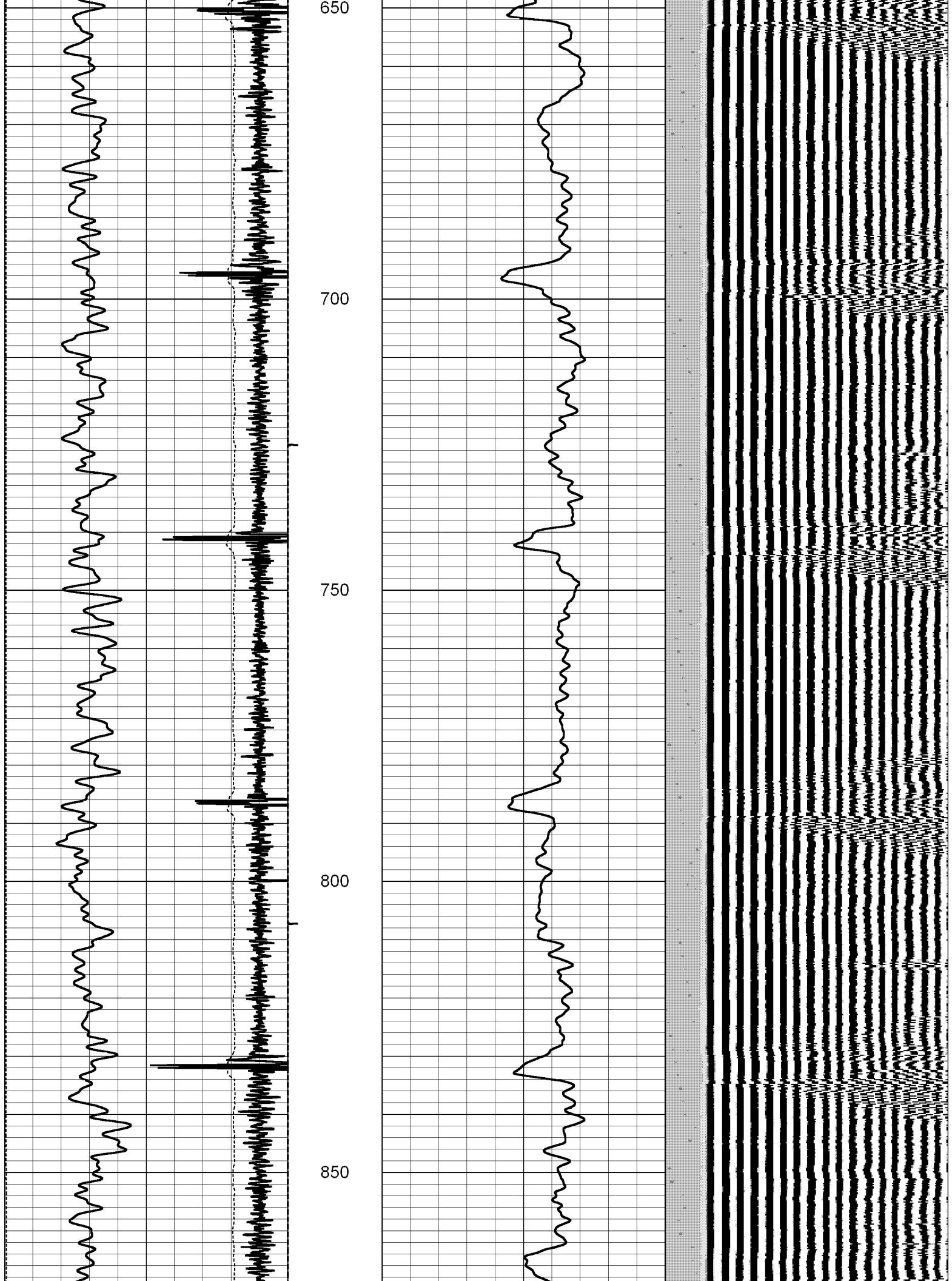
Database File:	11182015_greatwestern_schneider_hd11-392hn.db
Dataset Pathname:	down/merge4
Presentation Format:	cbldig
Dataset Creation:	Wed Nov 18 10:56:35 2015
Charted by:	Depth in Feet scaled 1:240

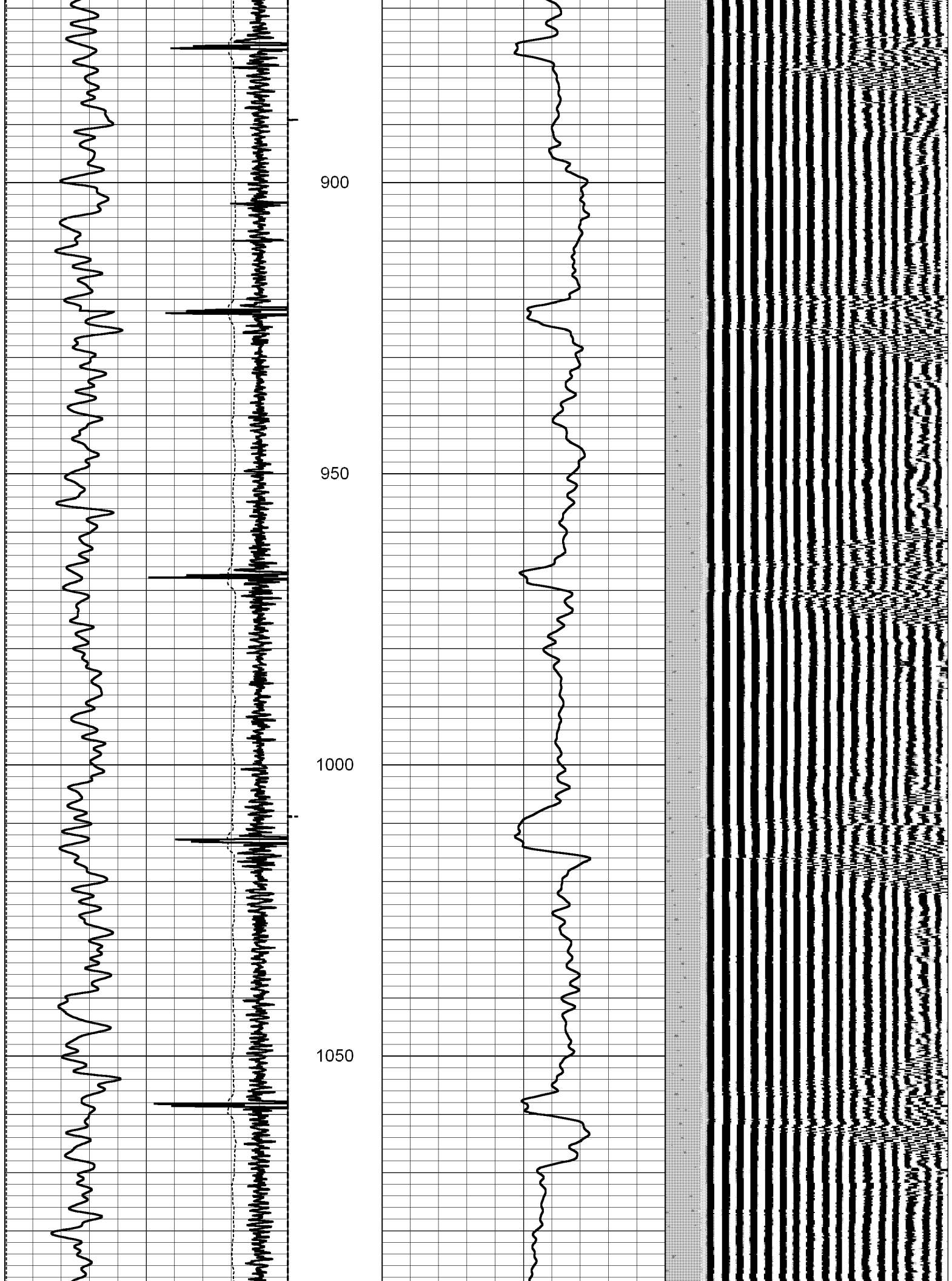
400	Travel Time (usec)	200	0	Amplitude (mV)	100	200	Variable Density	1200
9	Collar Locator	-1	0	Amplified Amplitude (mV)	10			
0	GR (GAPI)	150						

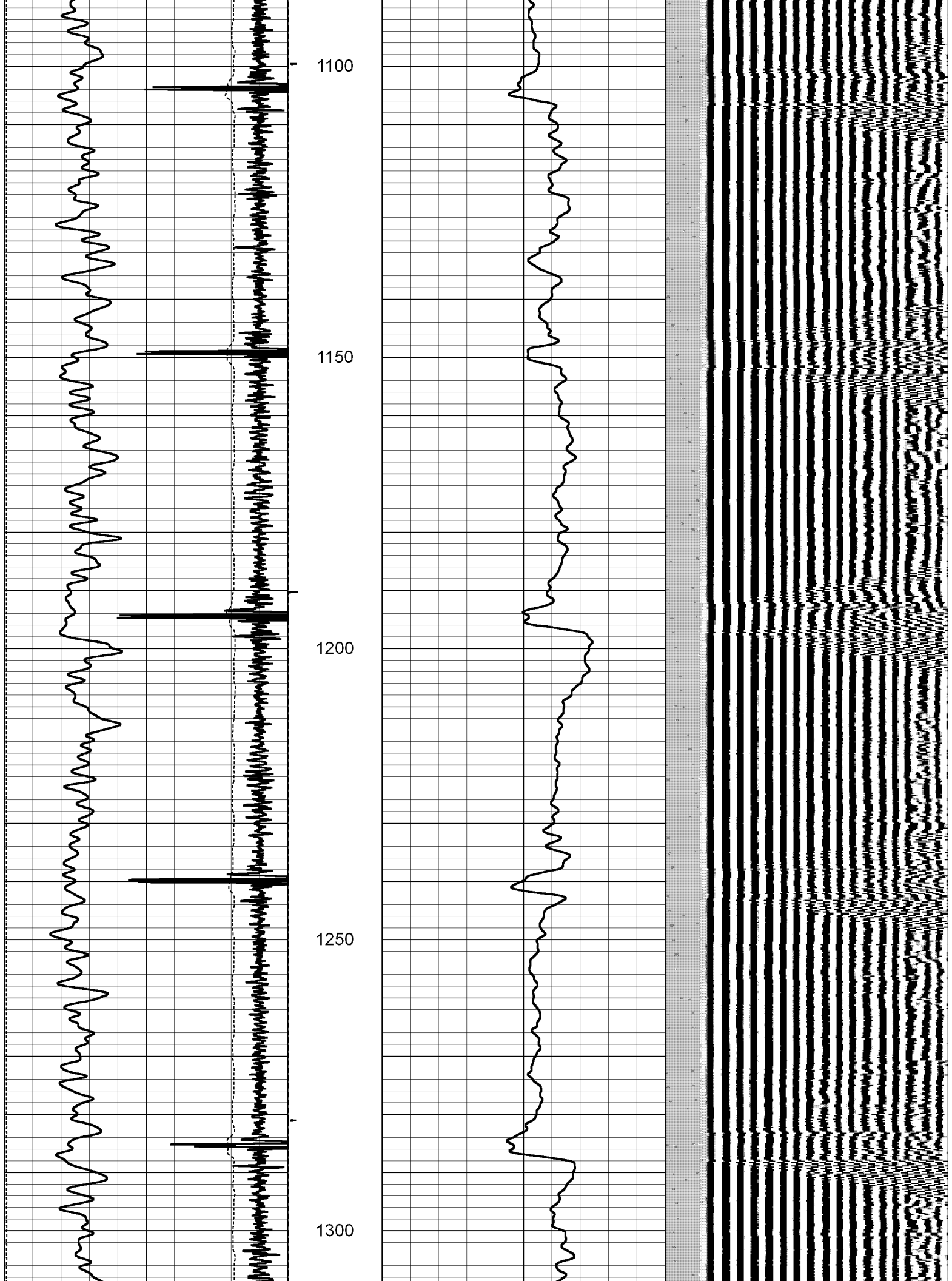




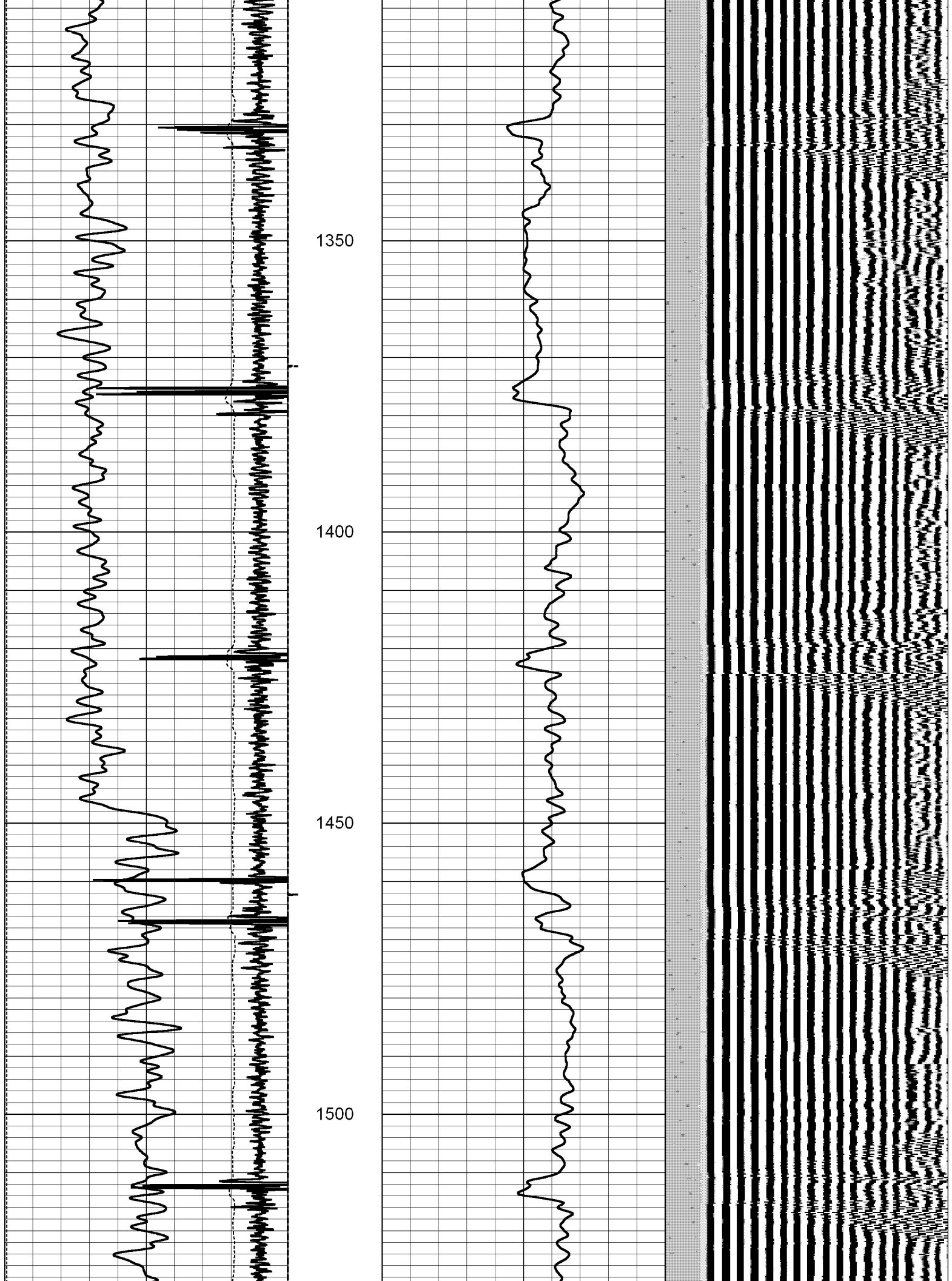


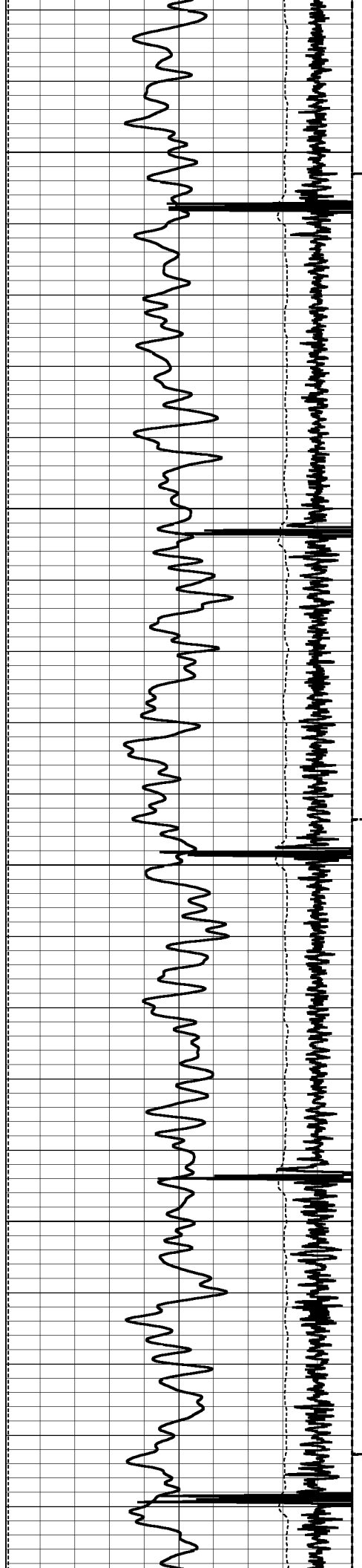










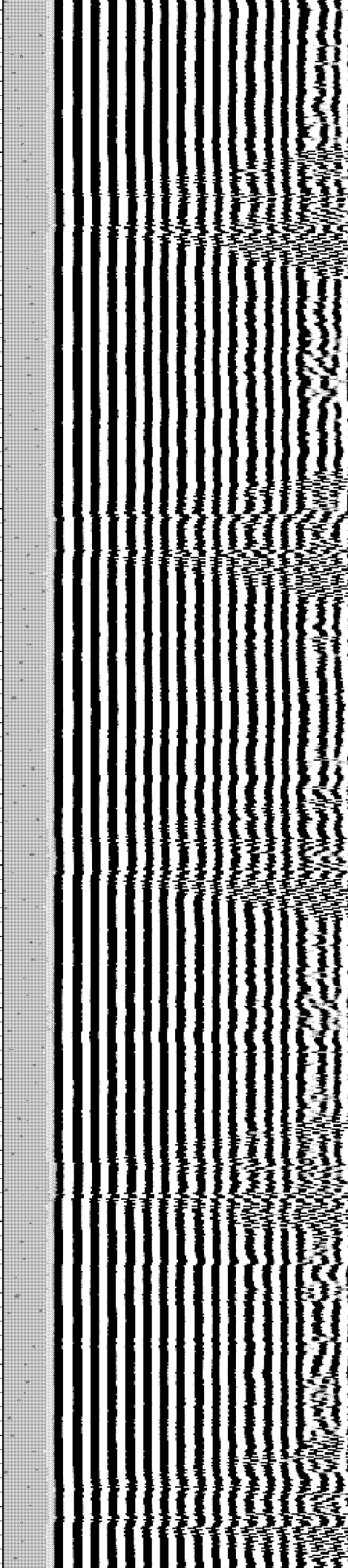
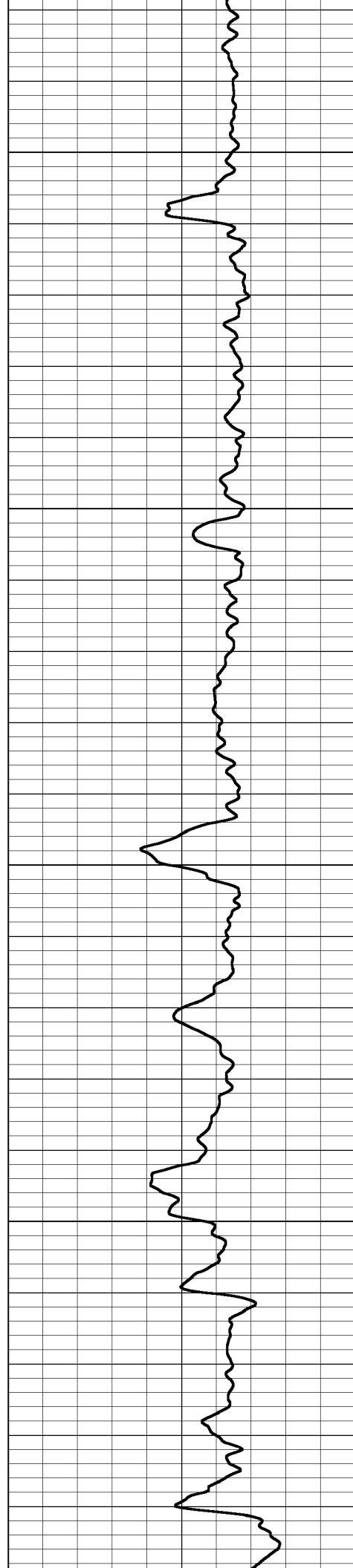


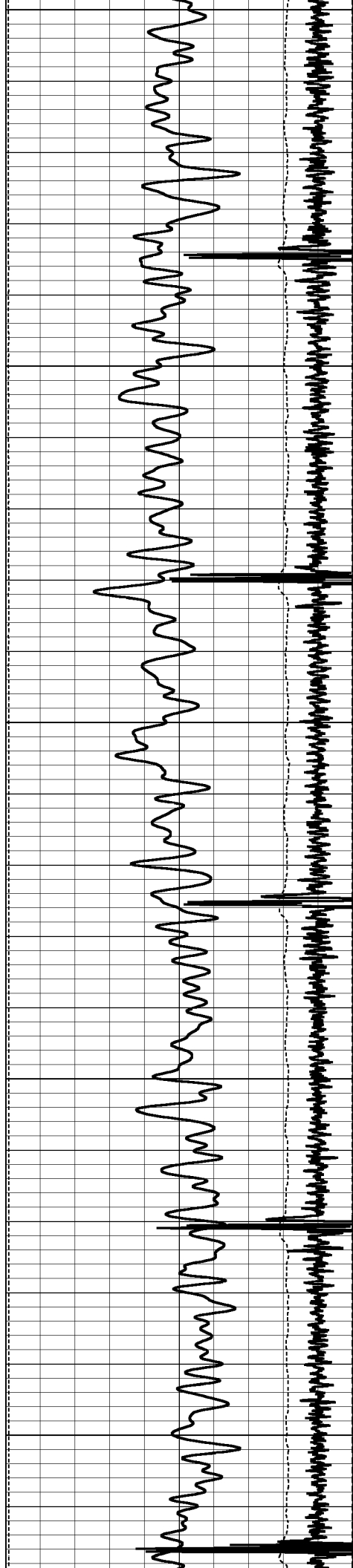
1550

1600

1650

1700





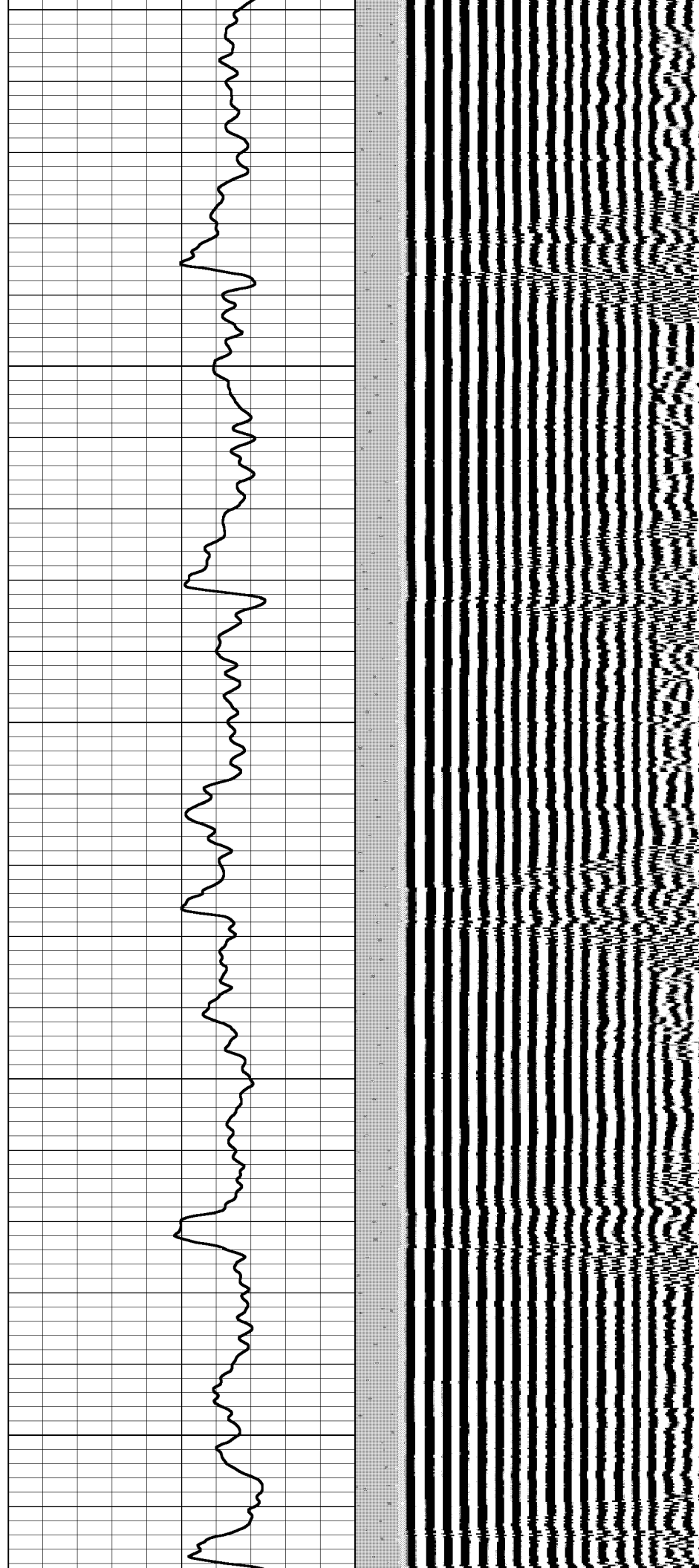
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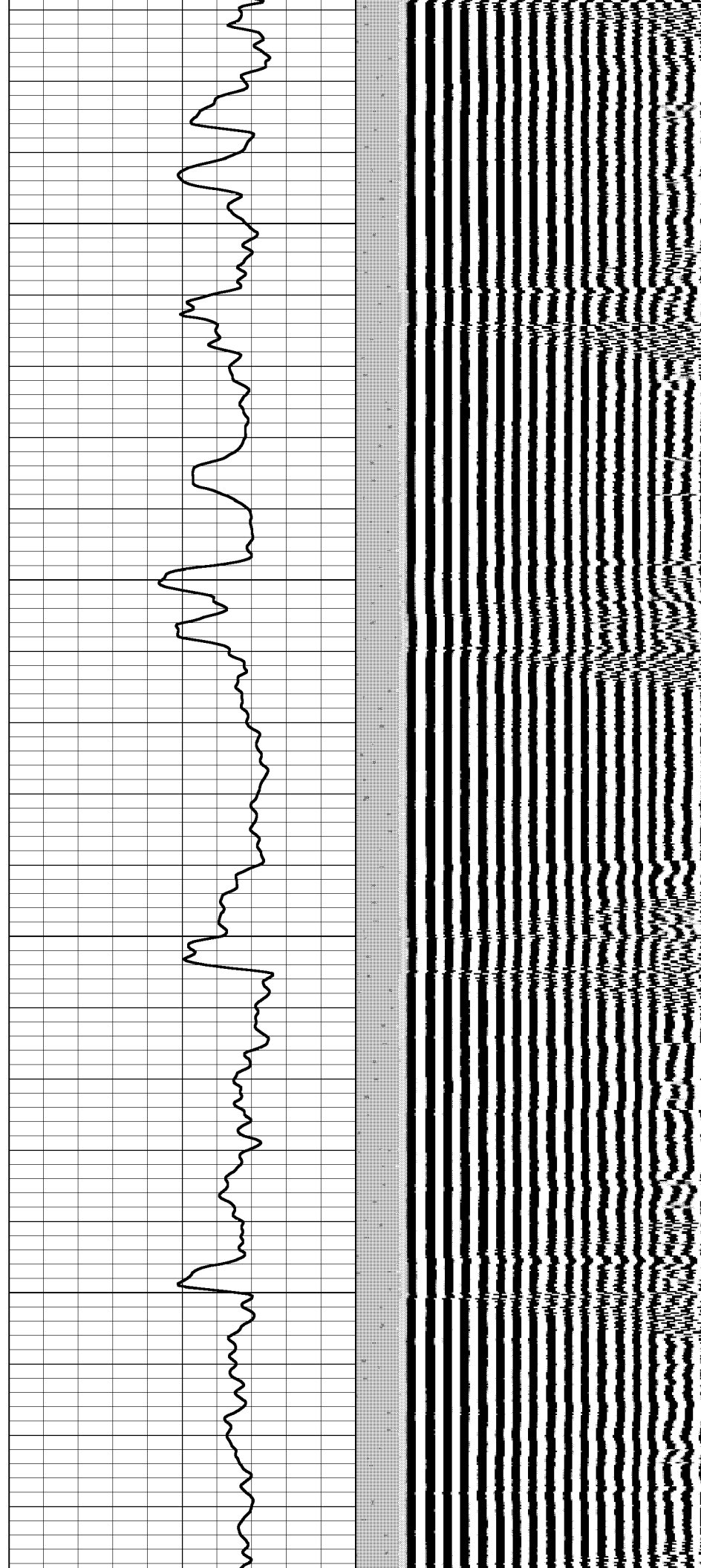
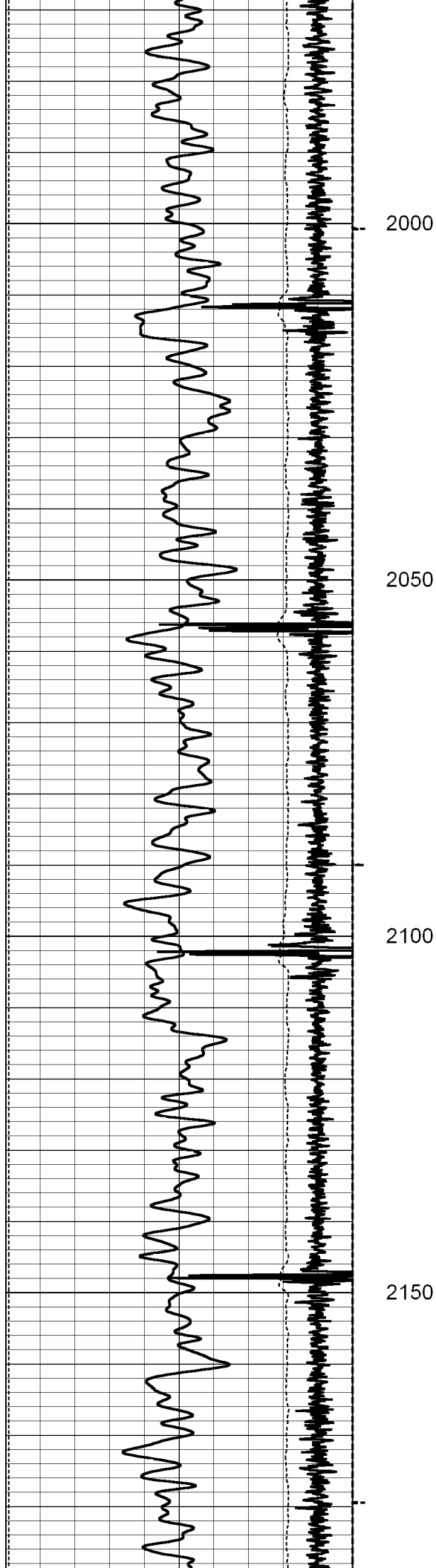
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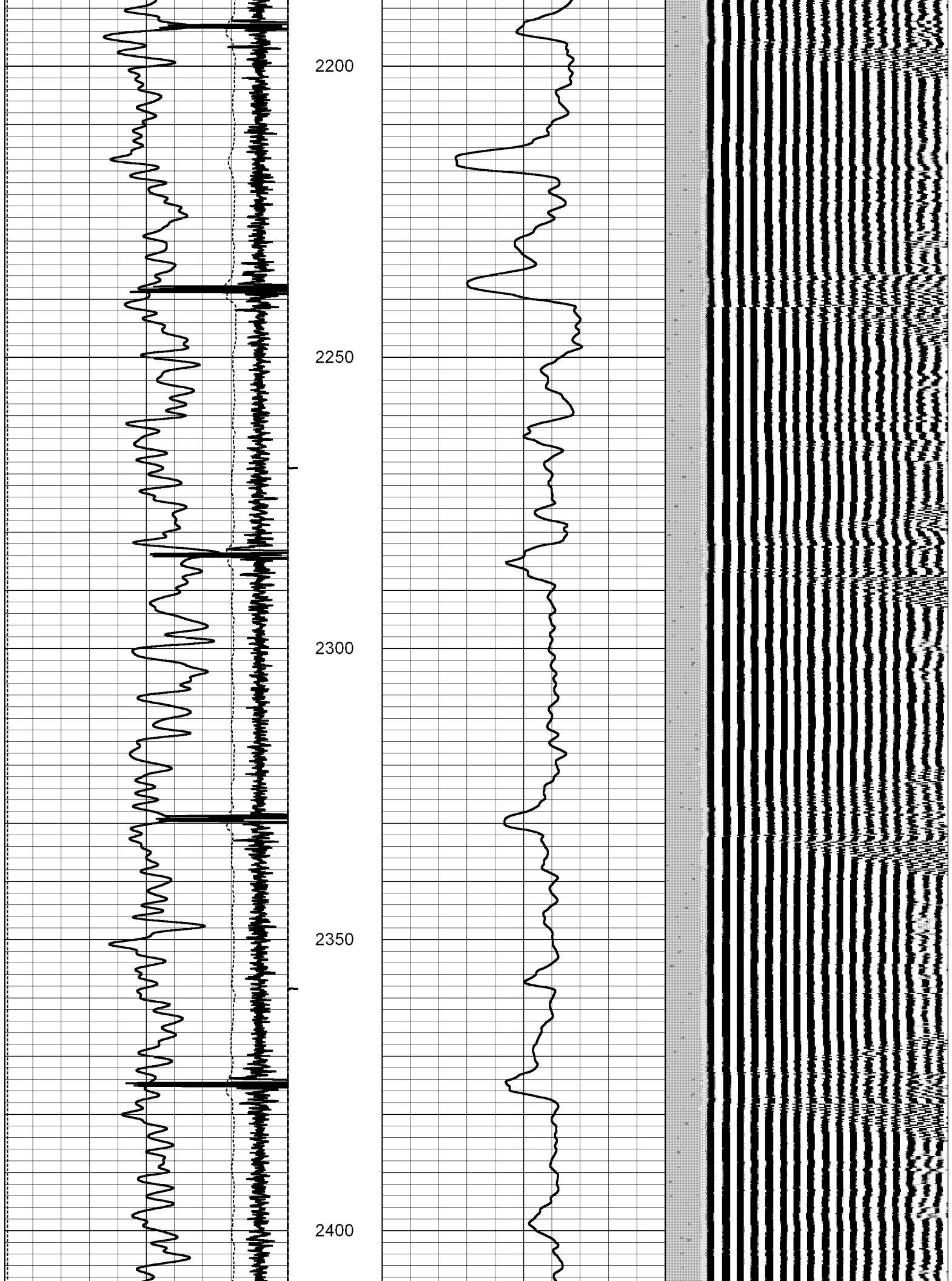
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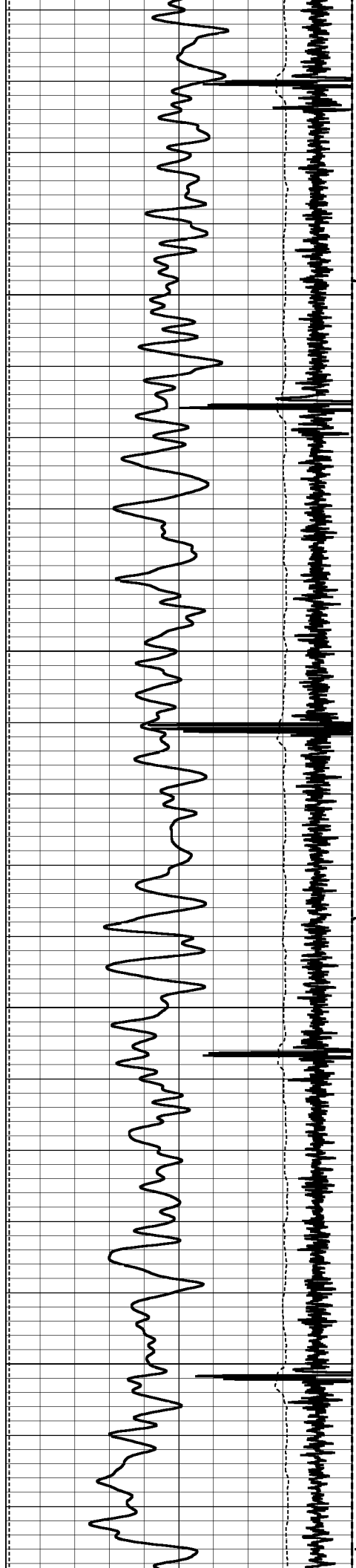
1900

1950







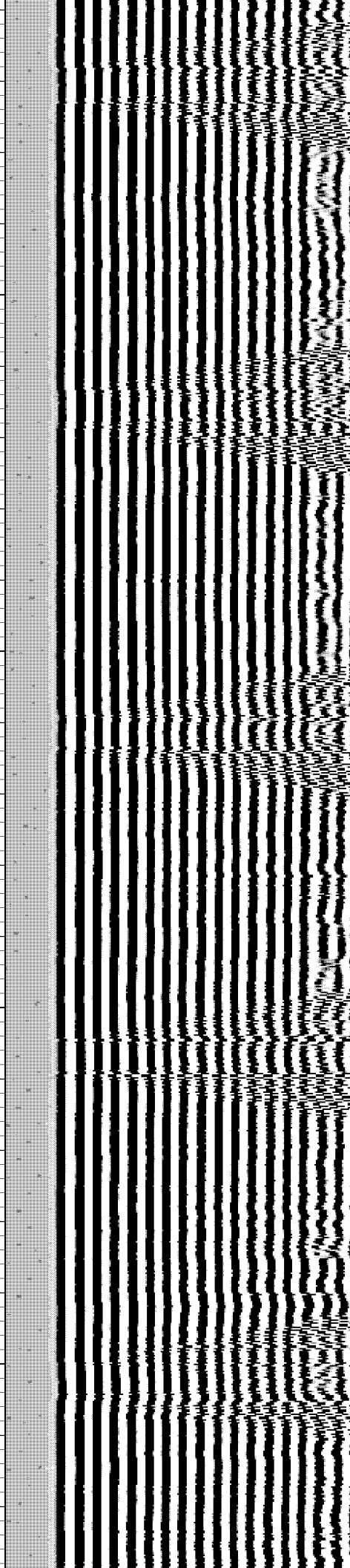
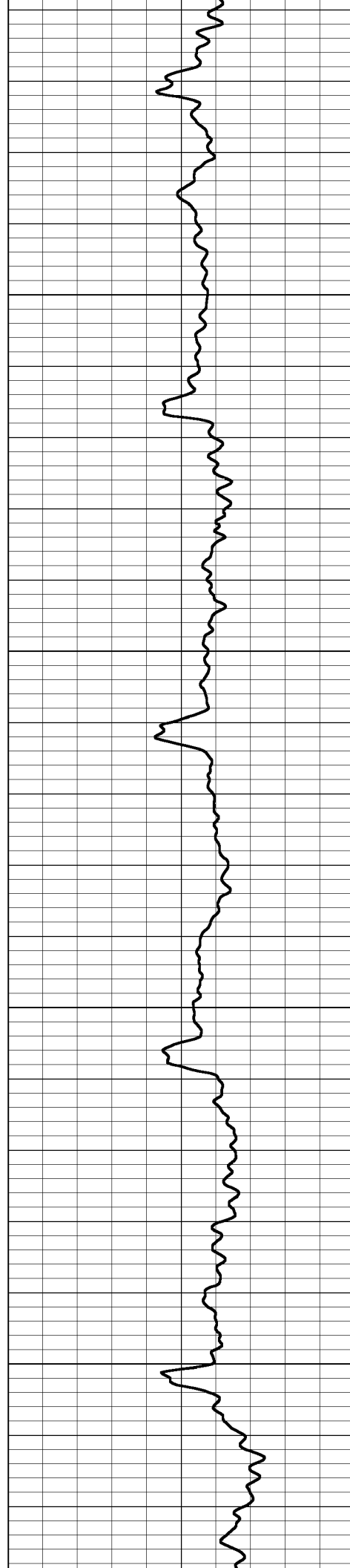


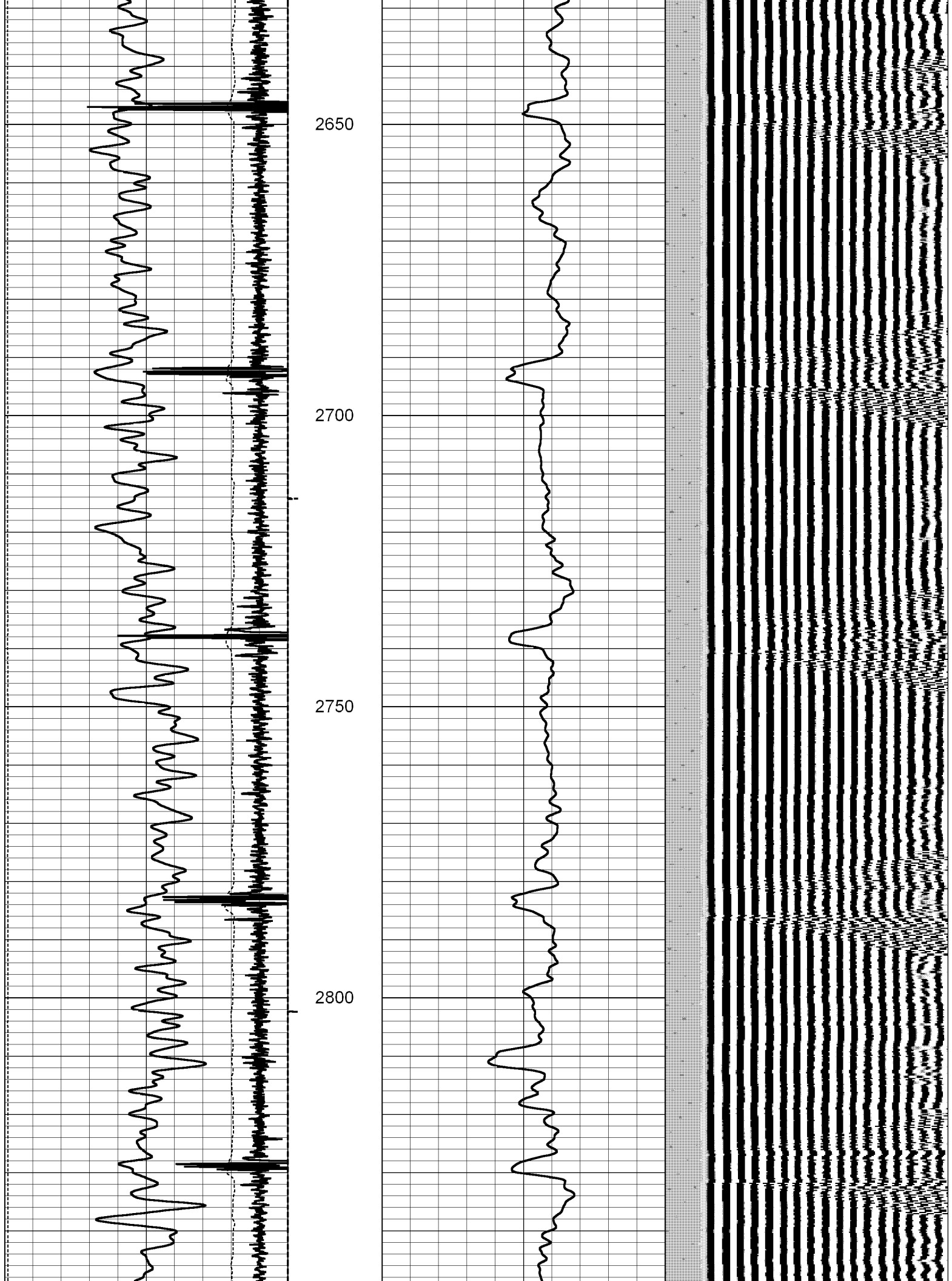
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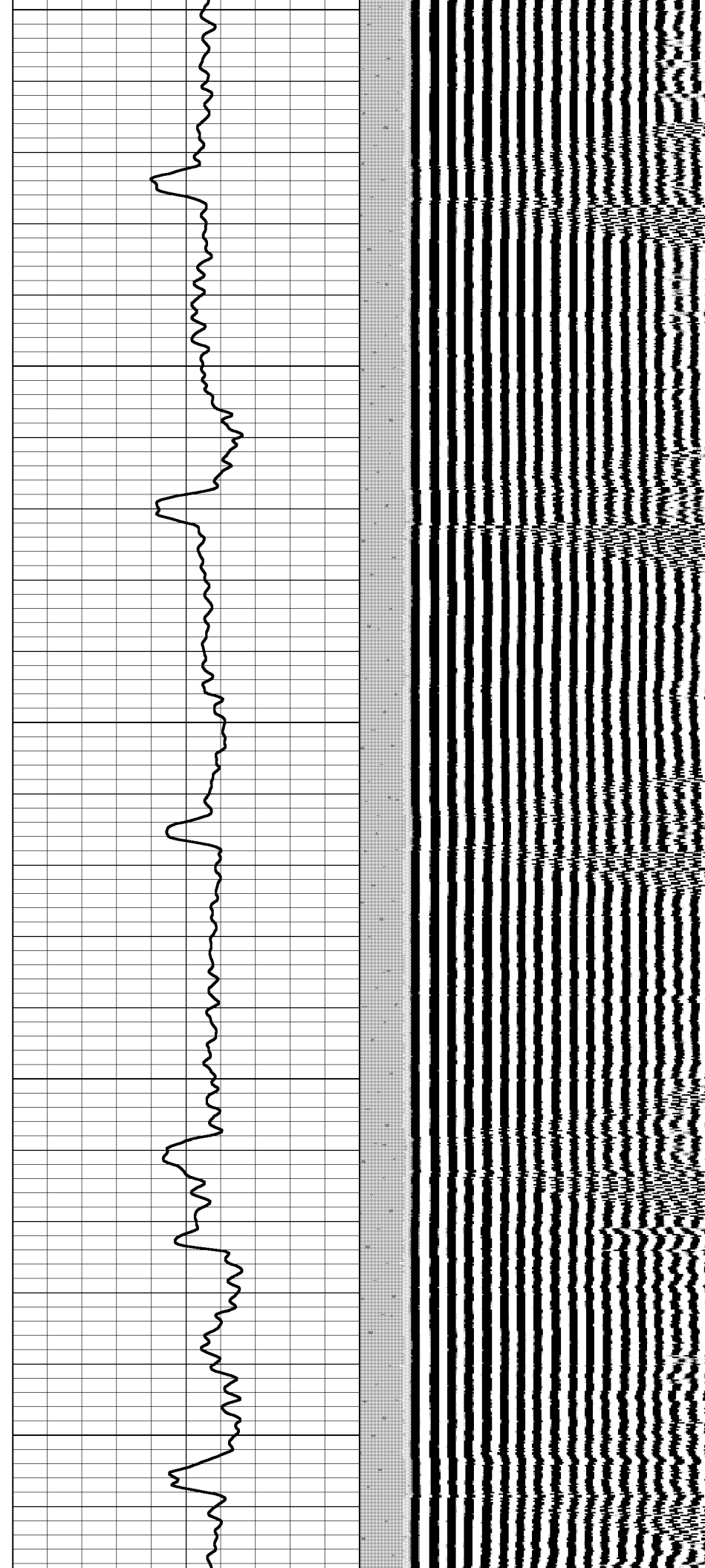
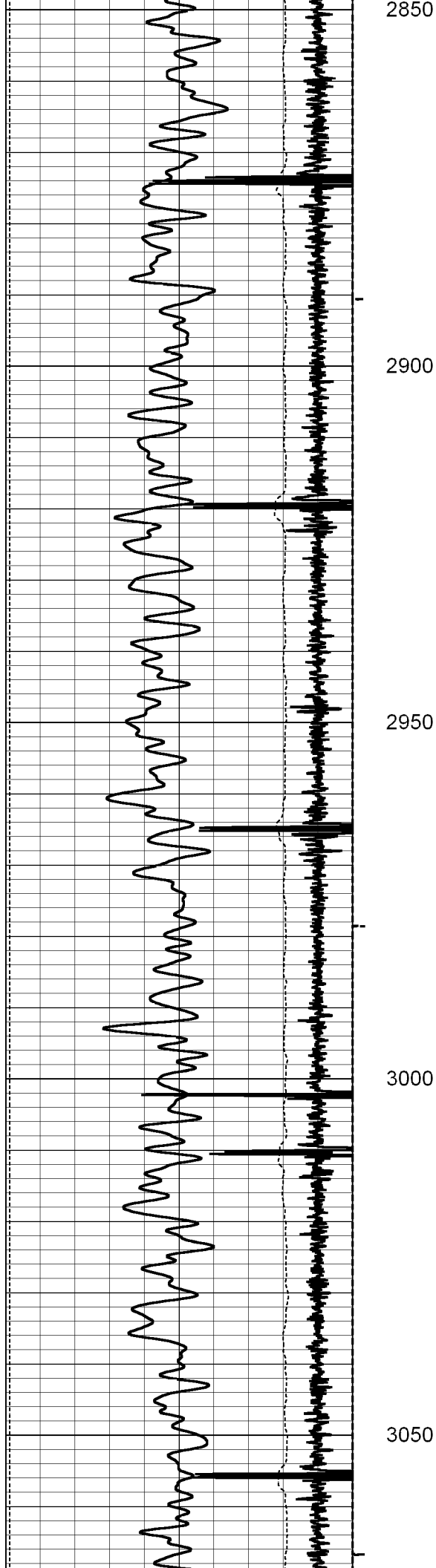
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2550

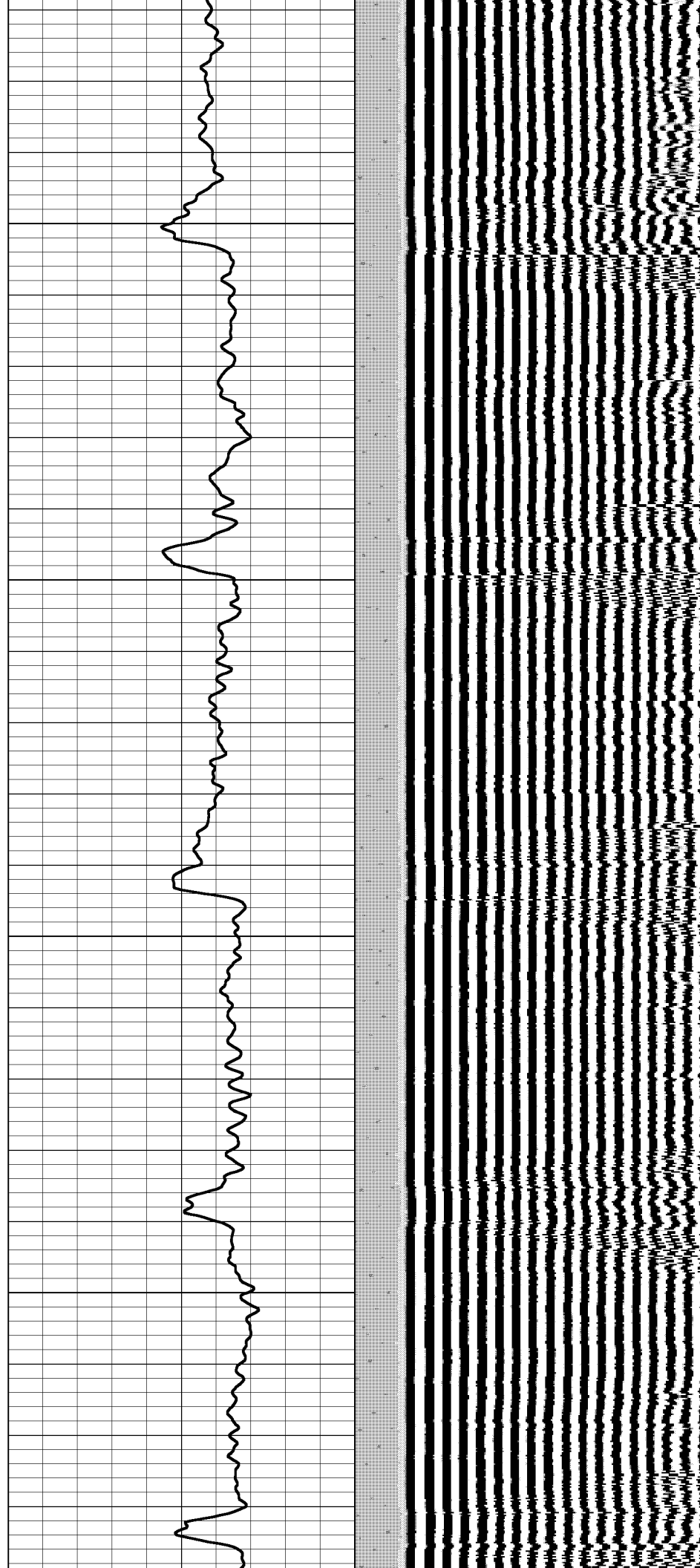
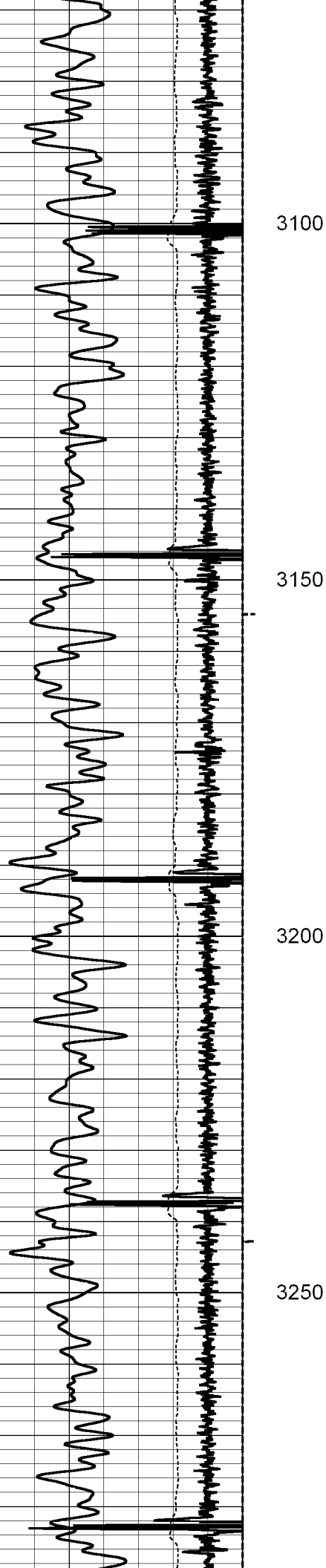
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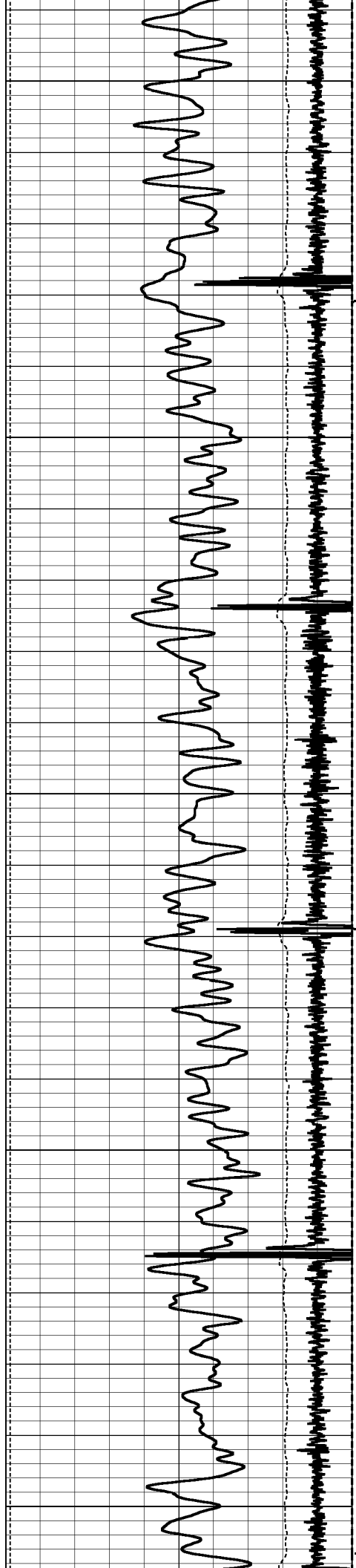












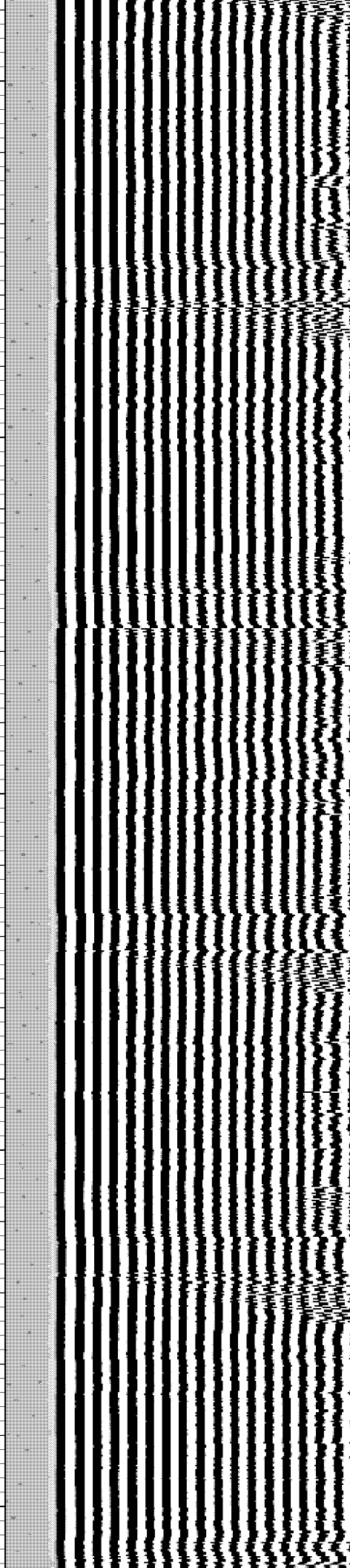
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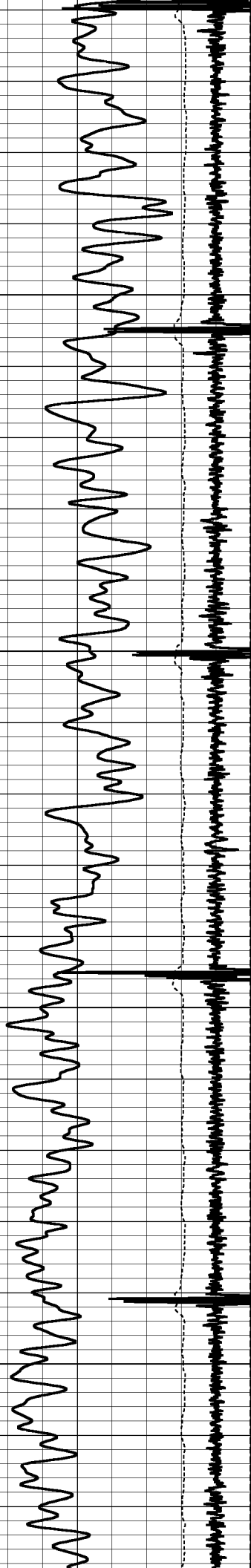
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3400

3450

3500



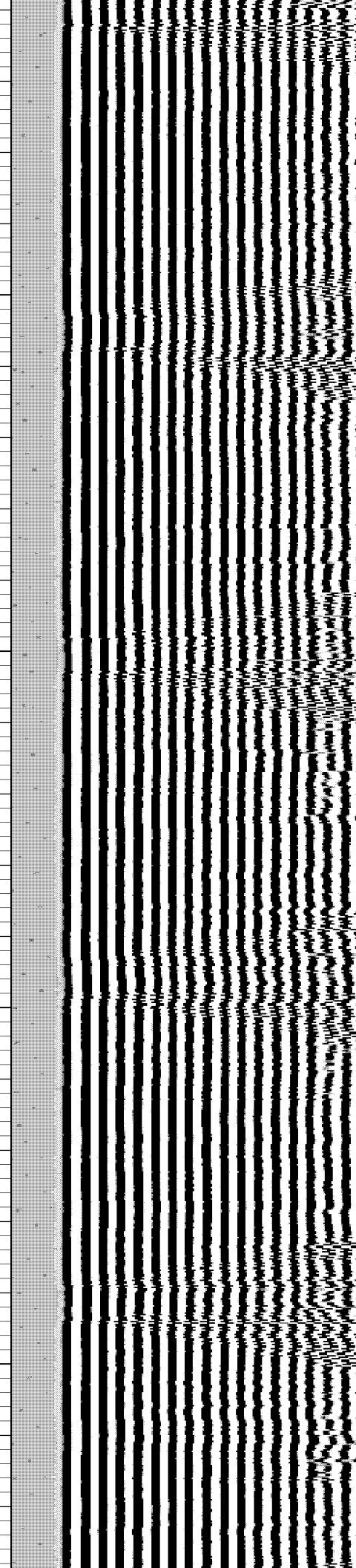
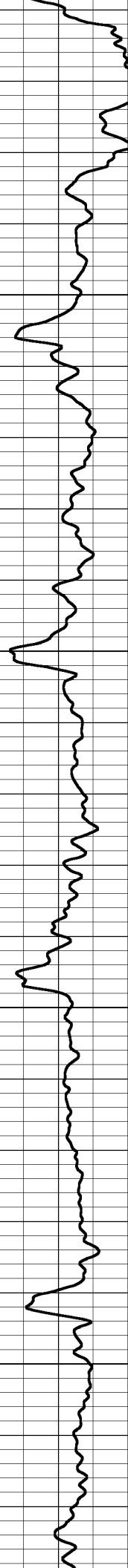


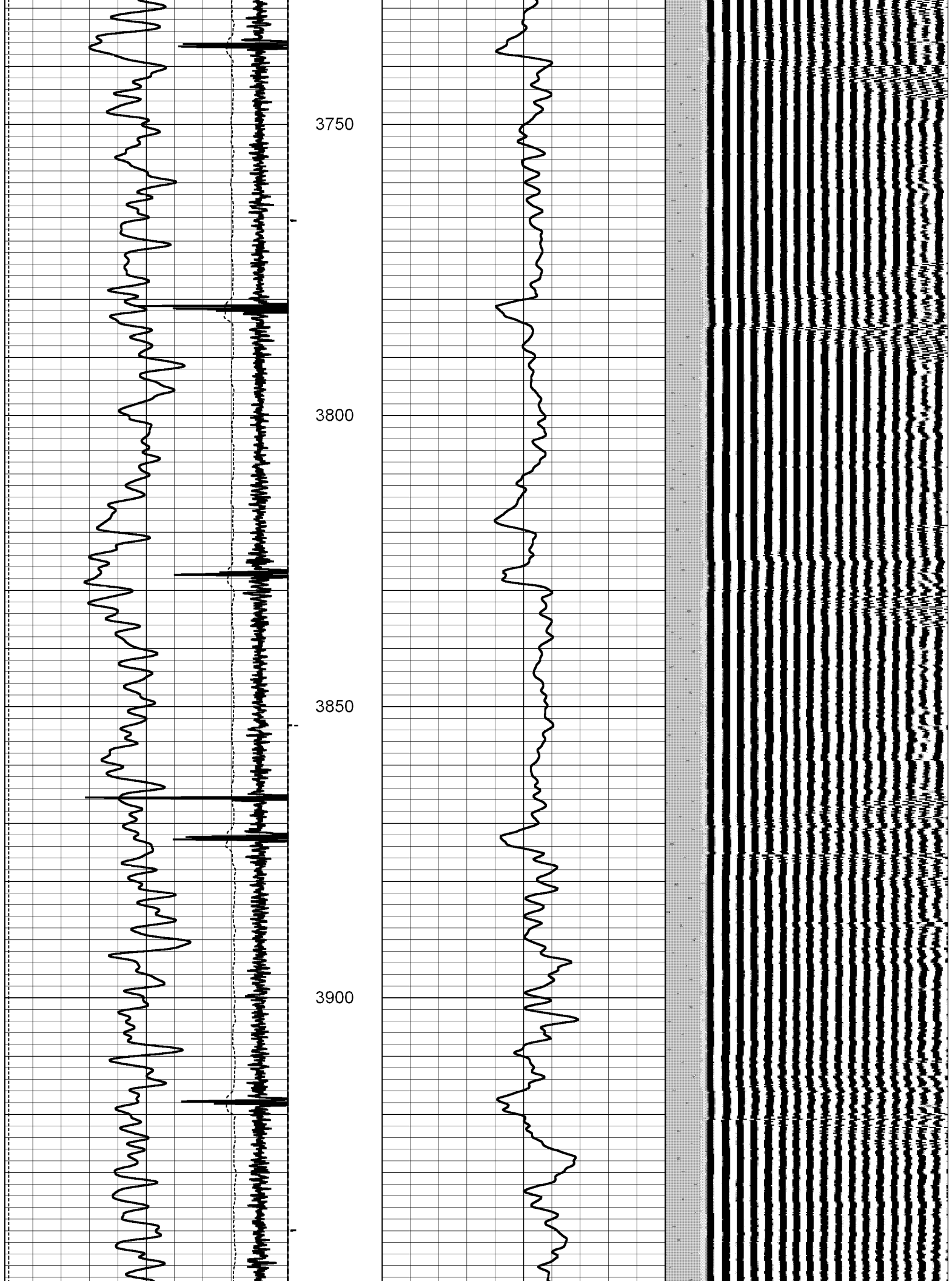
3550

3600

3650

3700





GR

CCL

3950

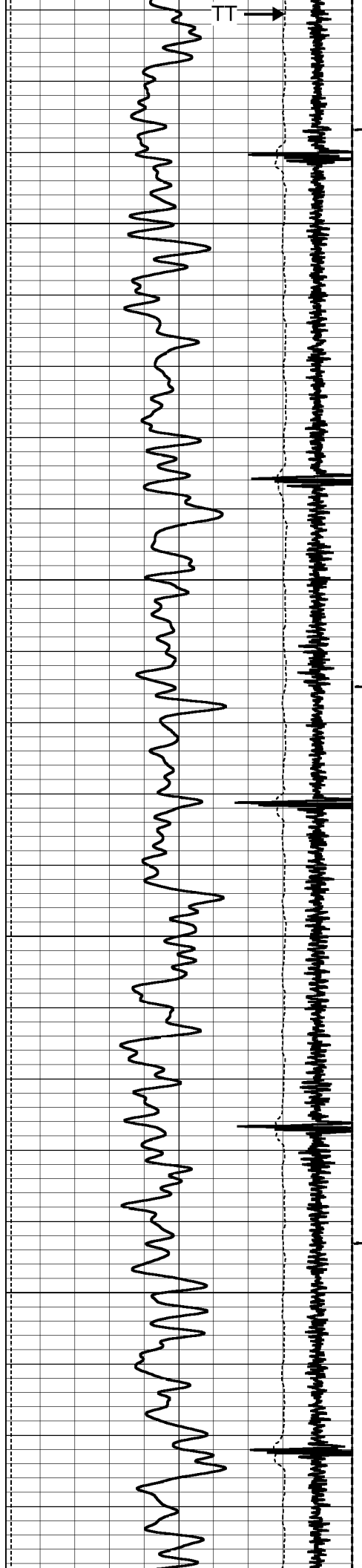
4000

4050

4100

4150

AMP3

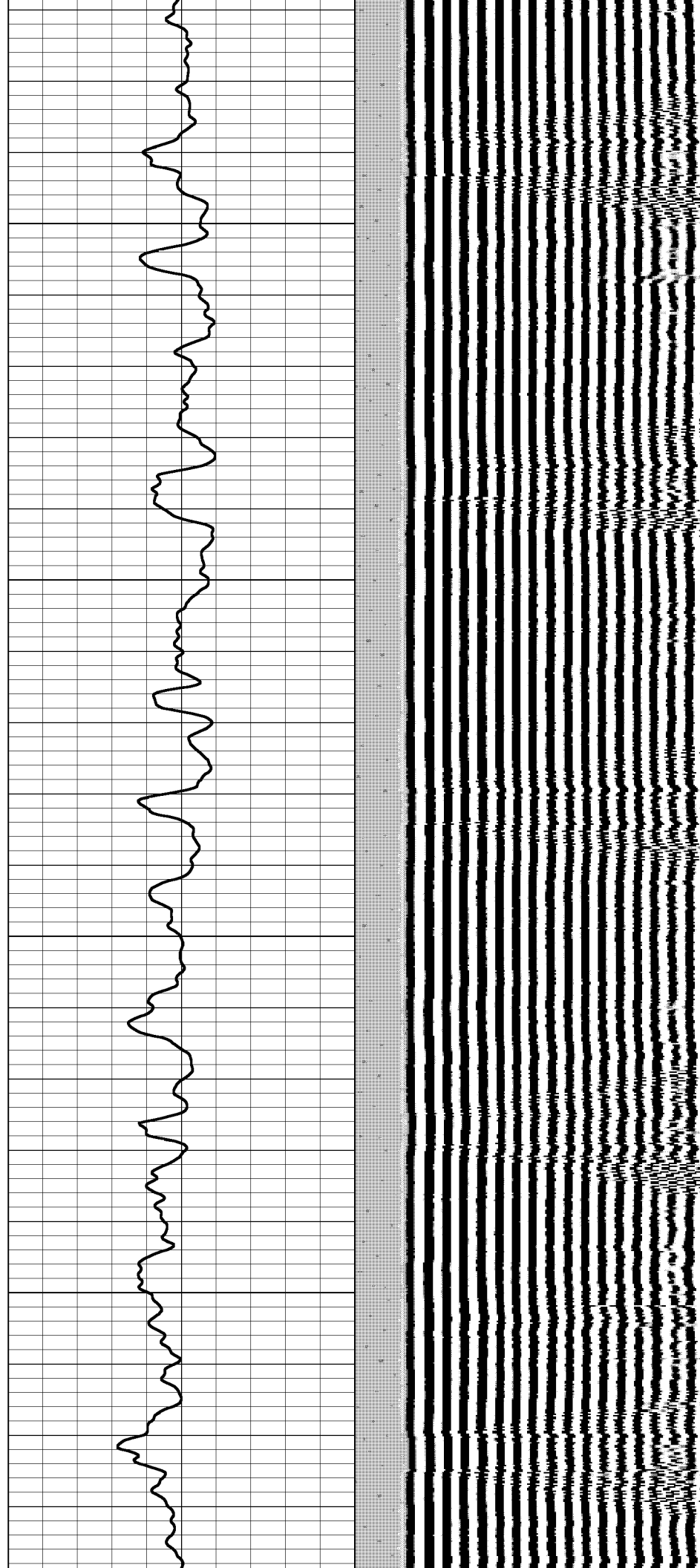


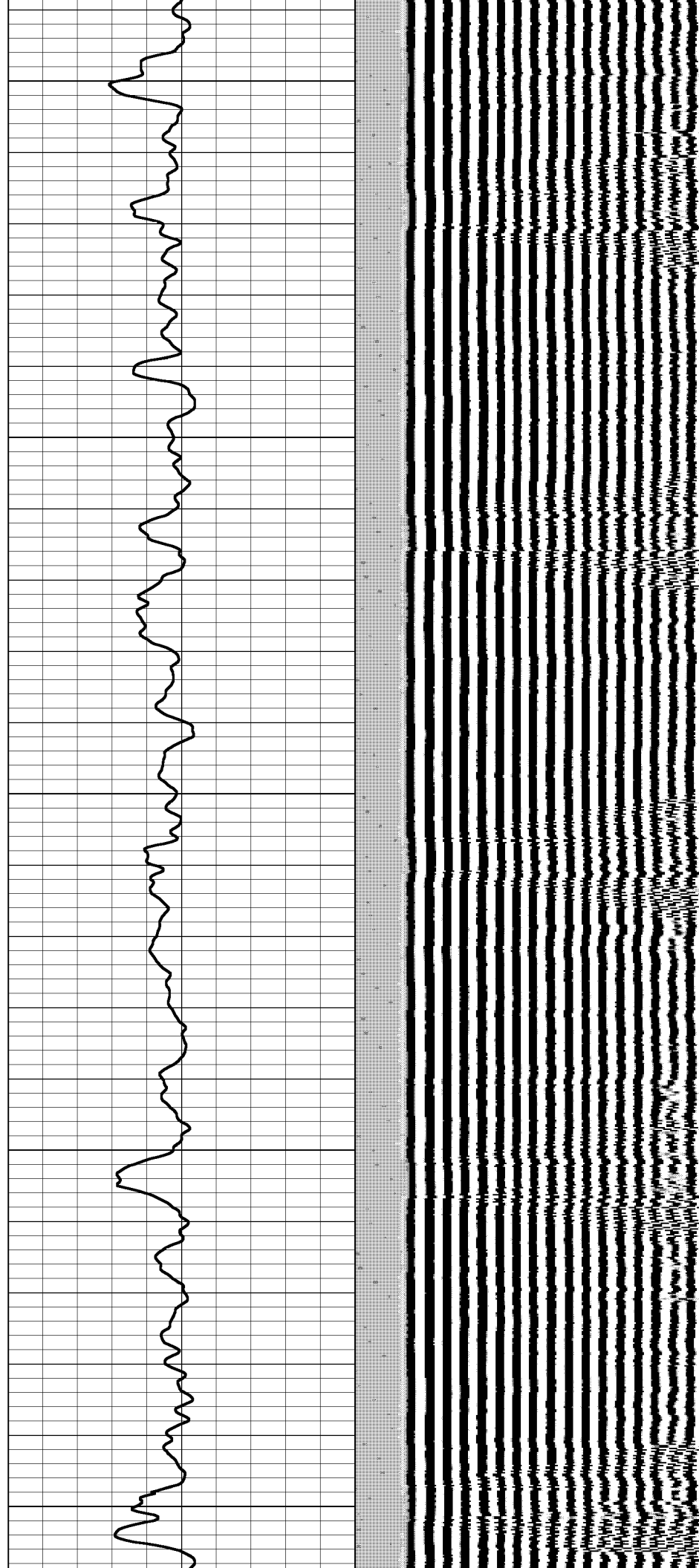
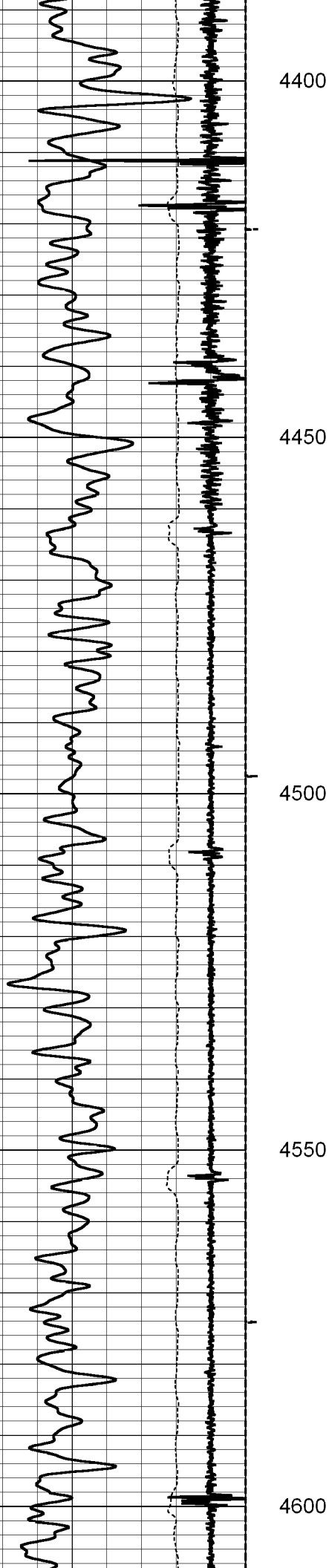
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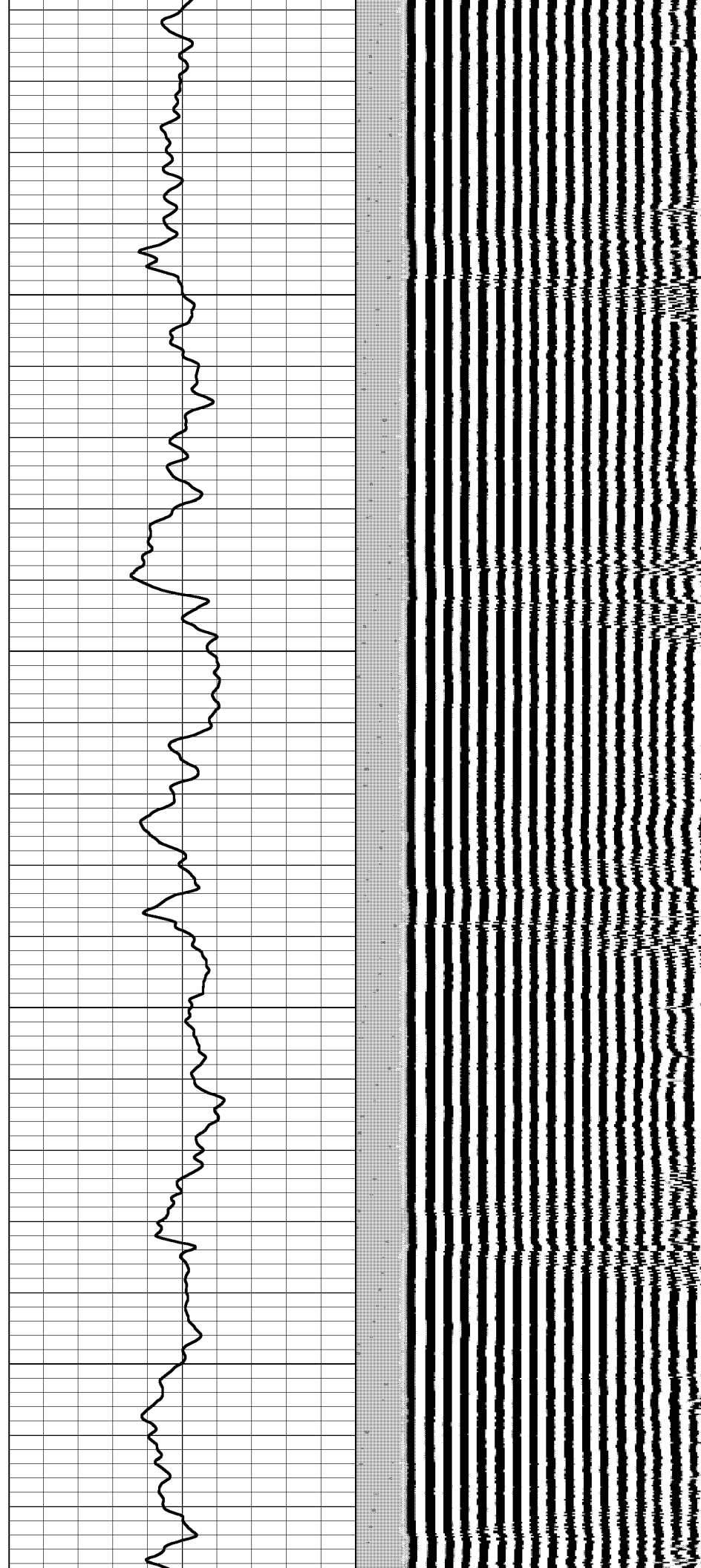
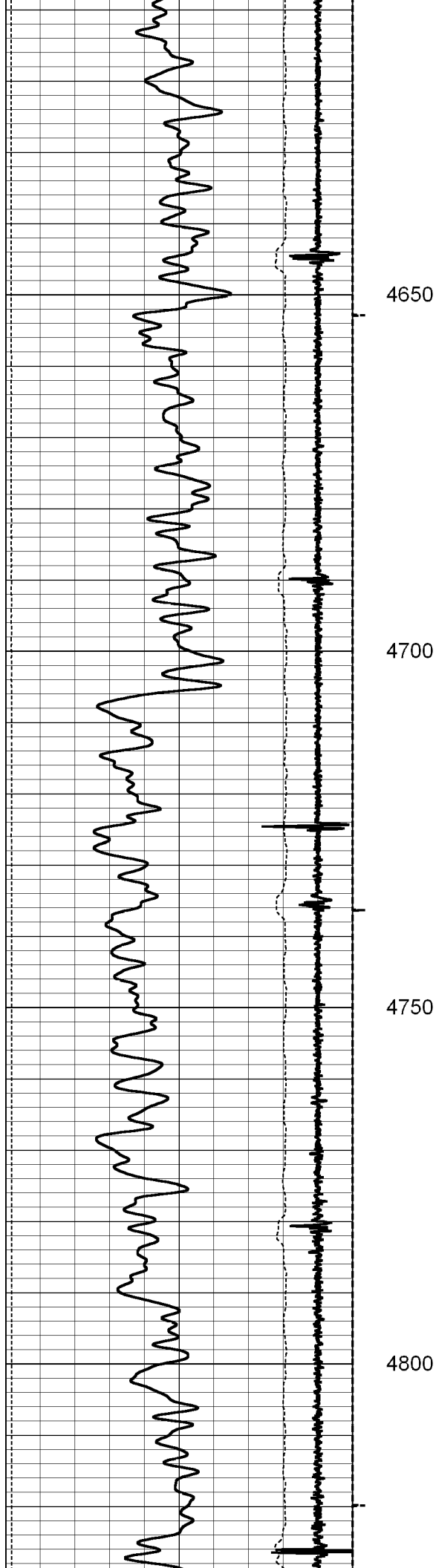
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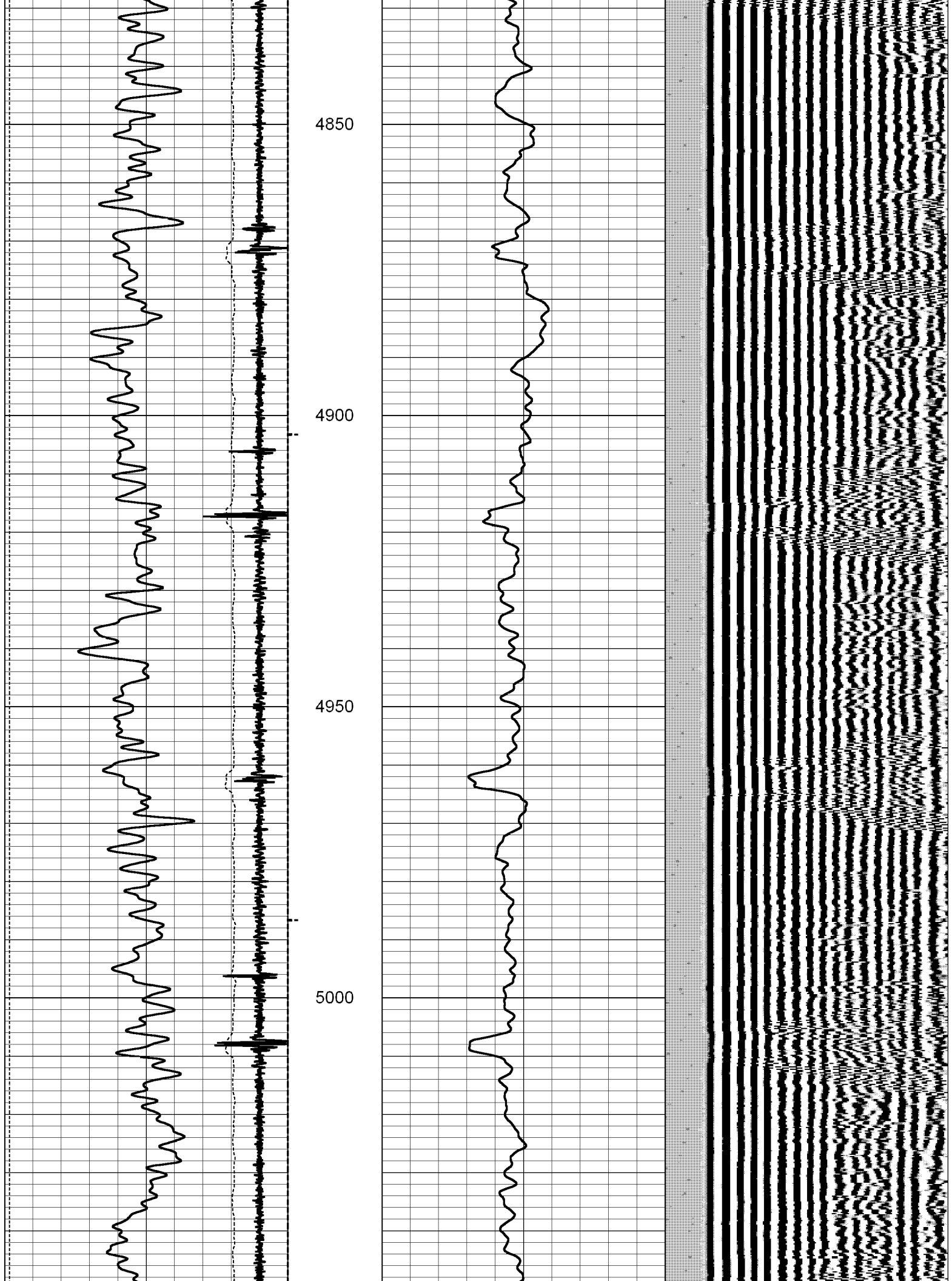
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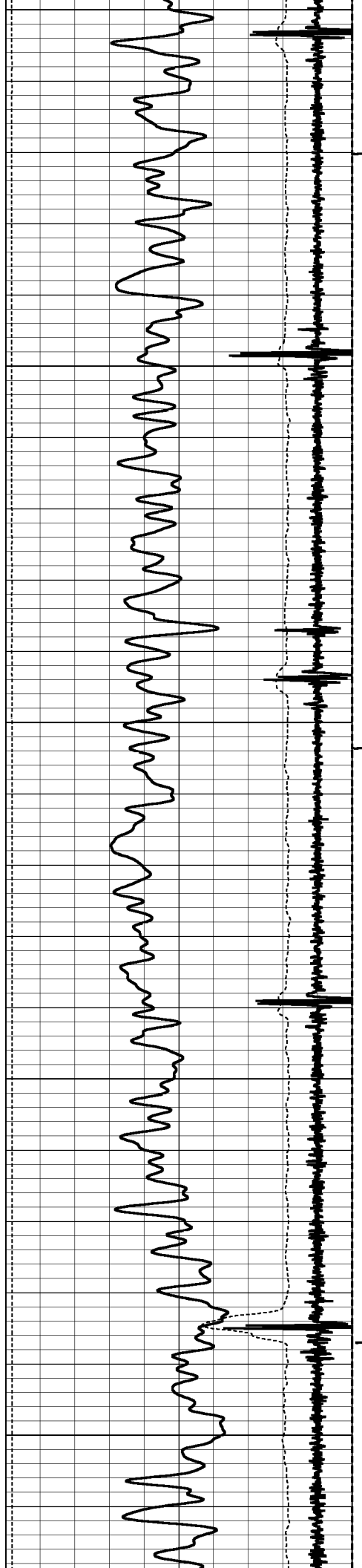












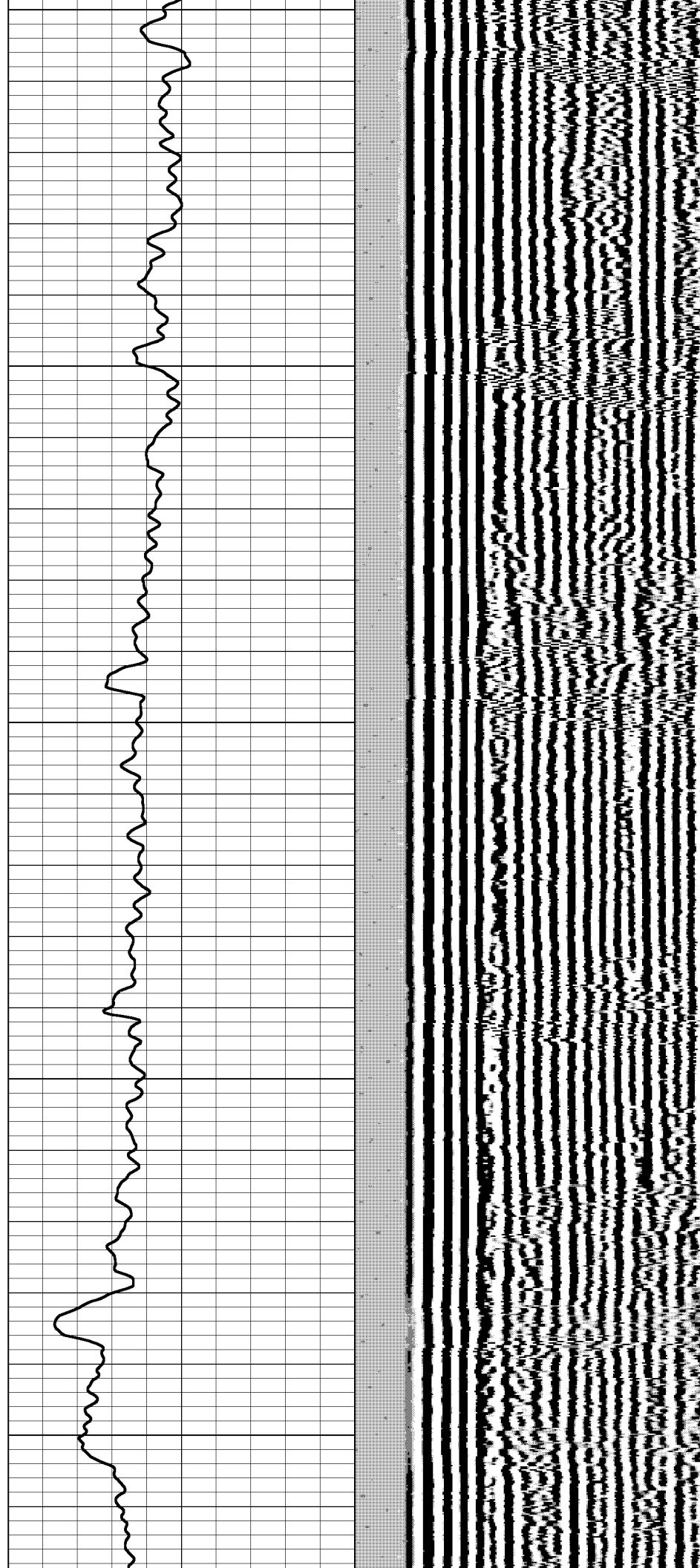
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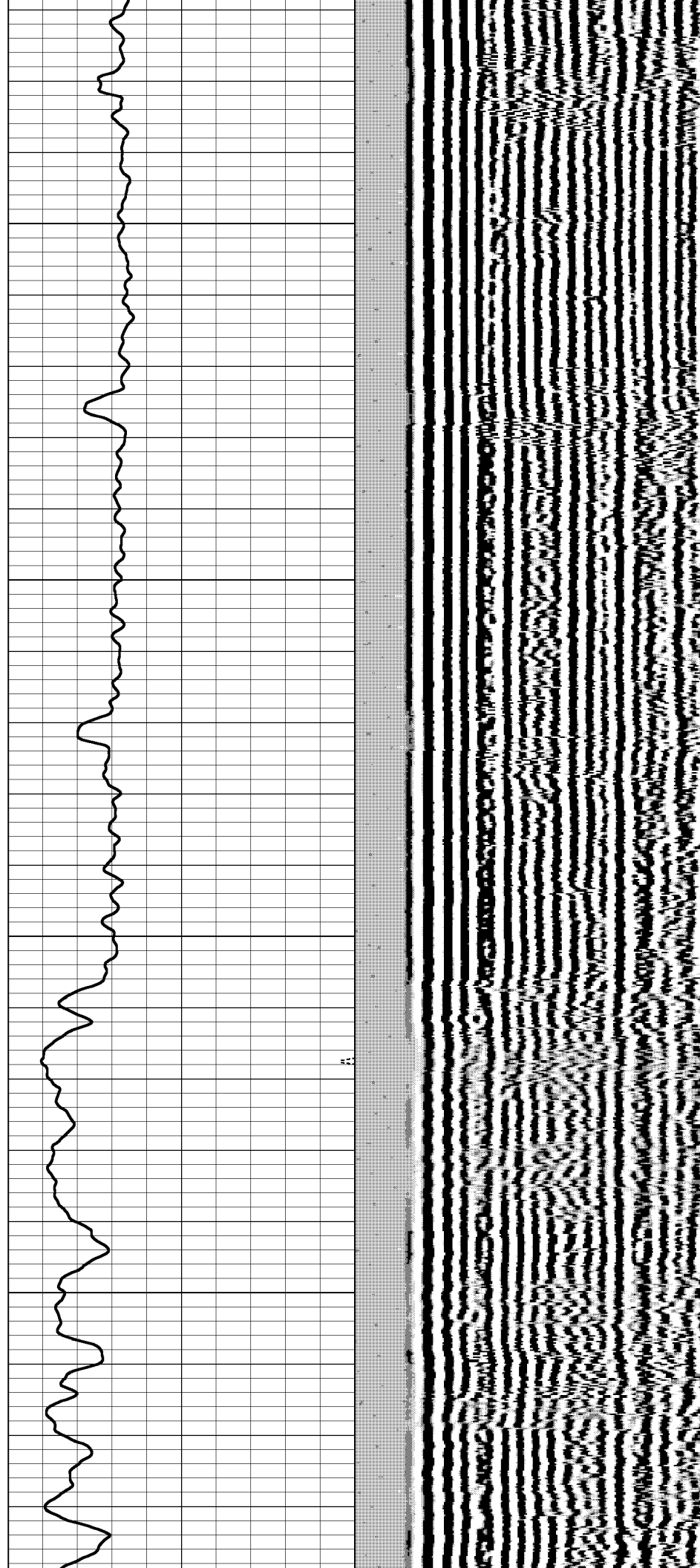
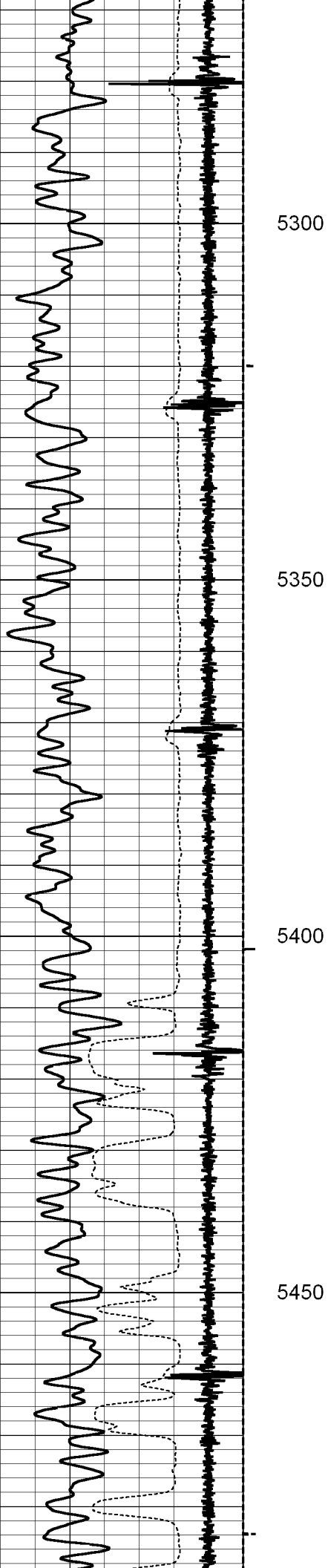
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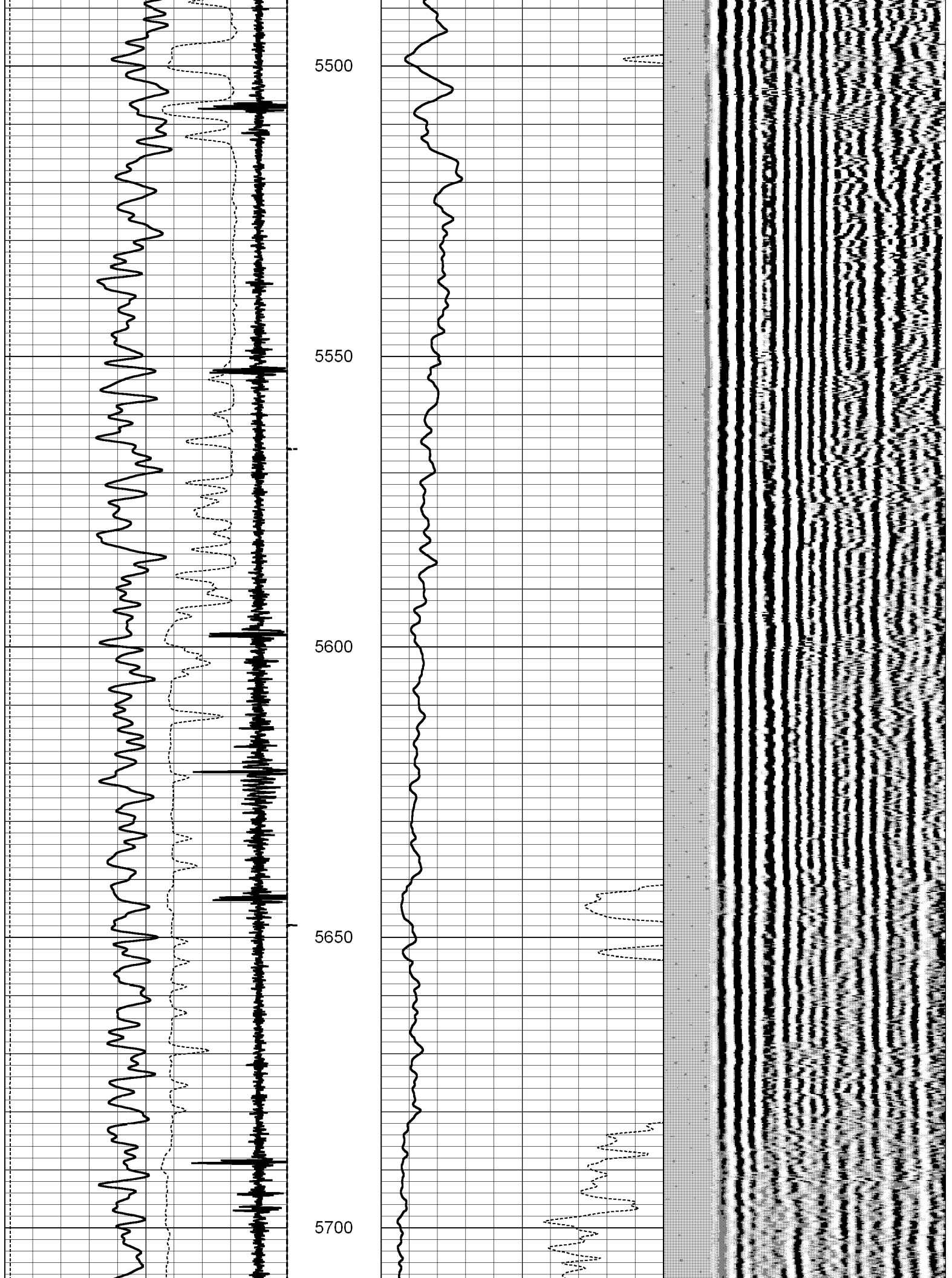
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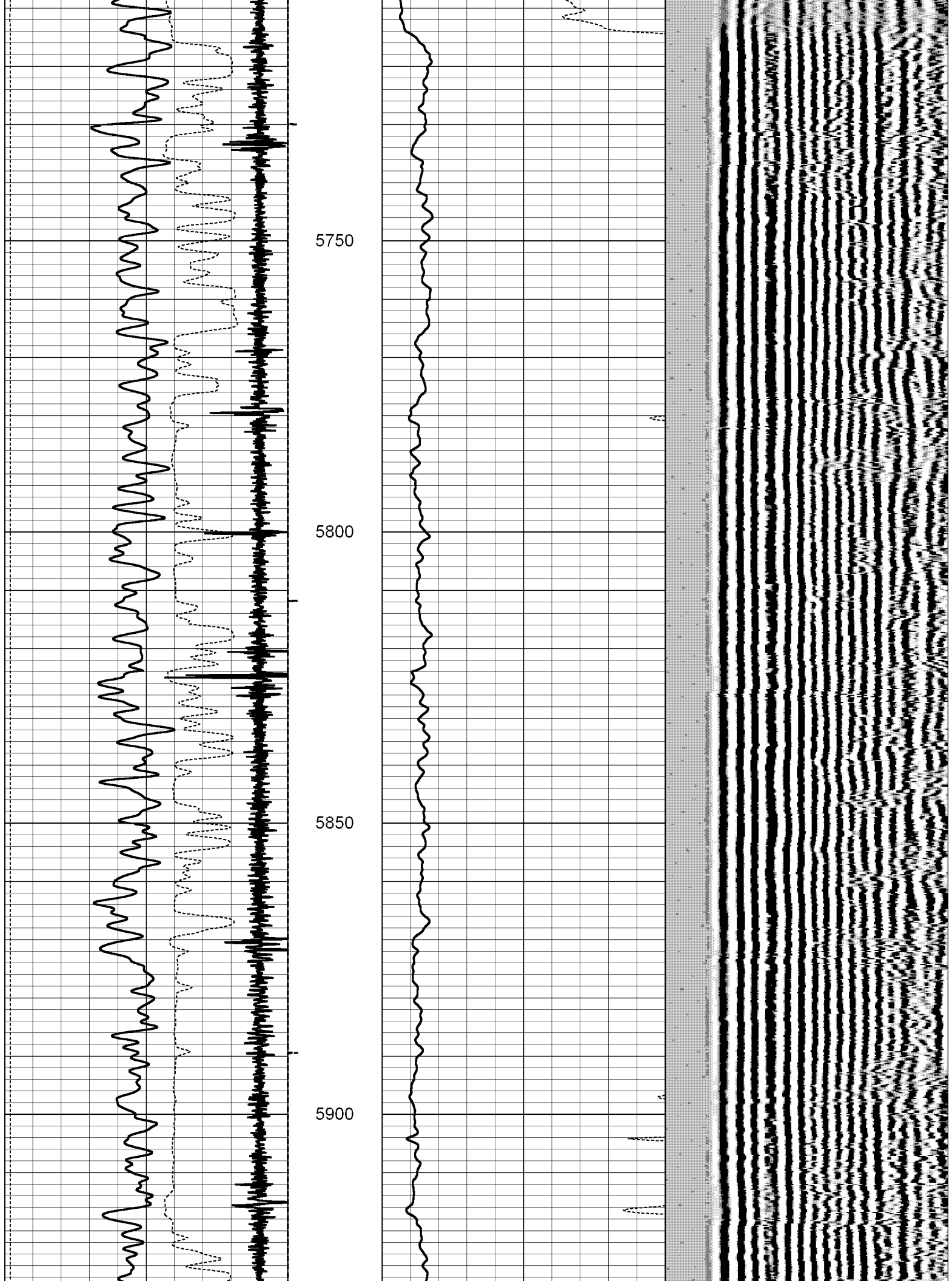
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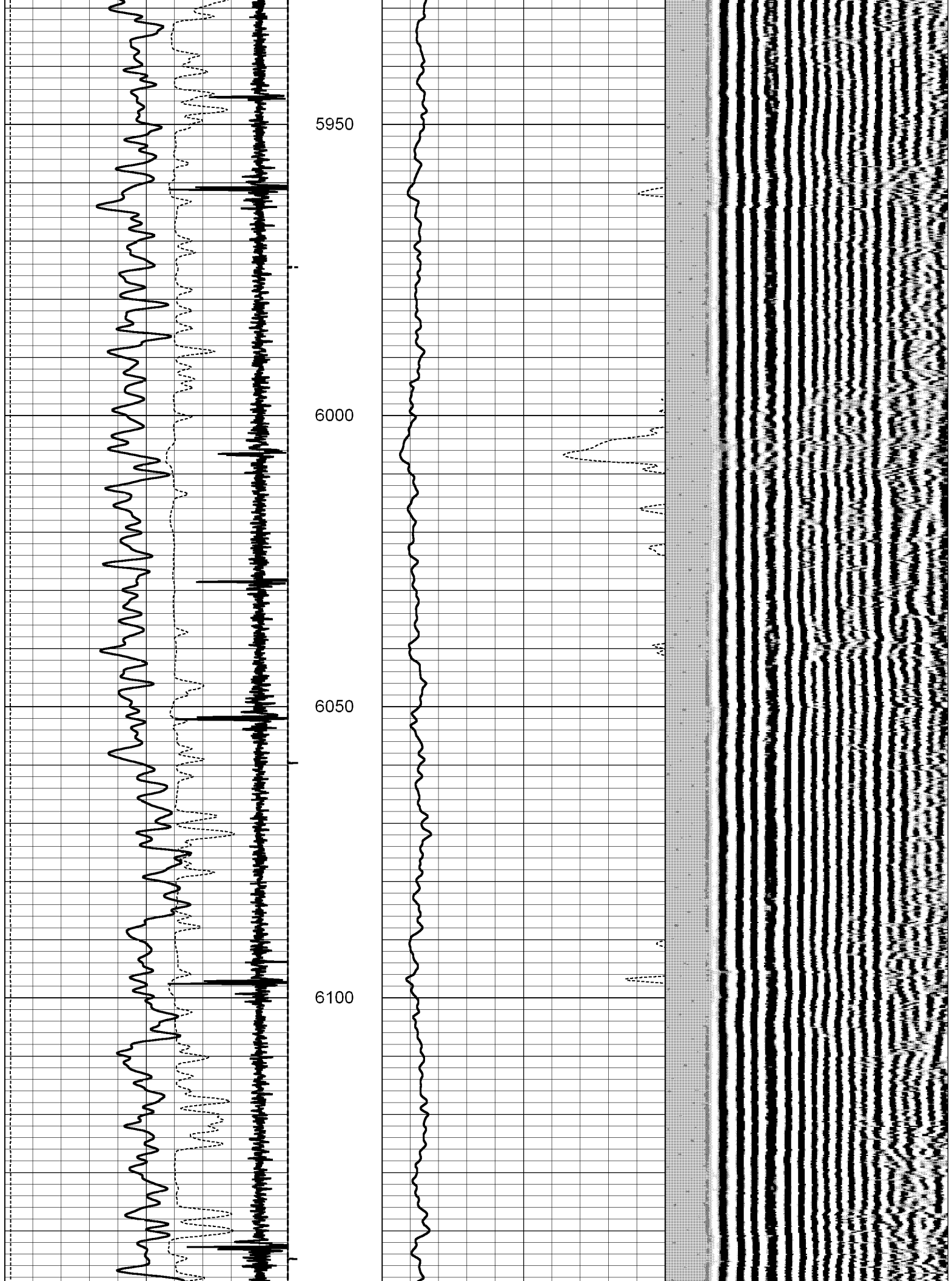
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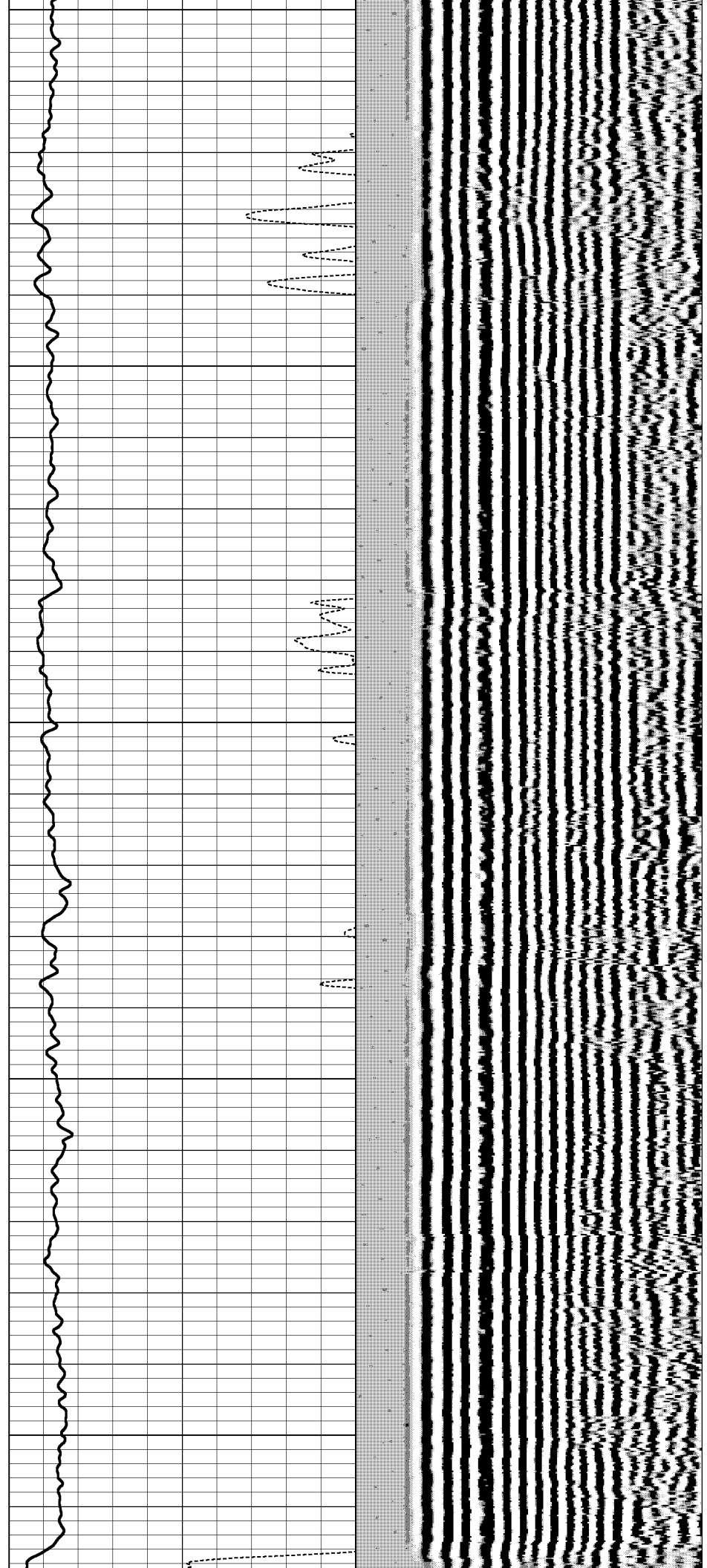
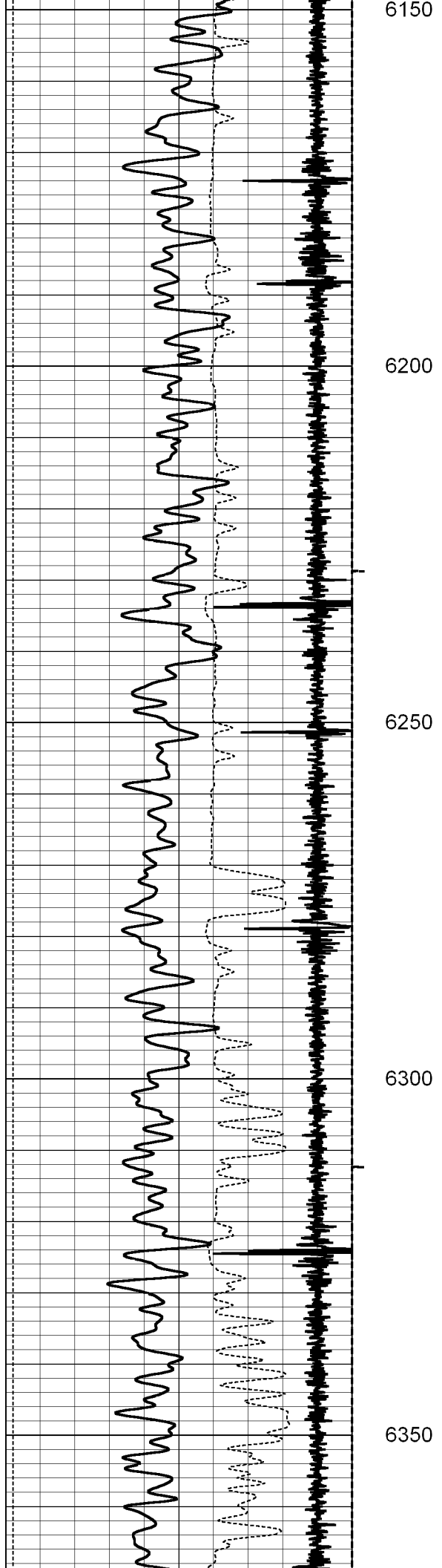


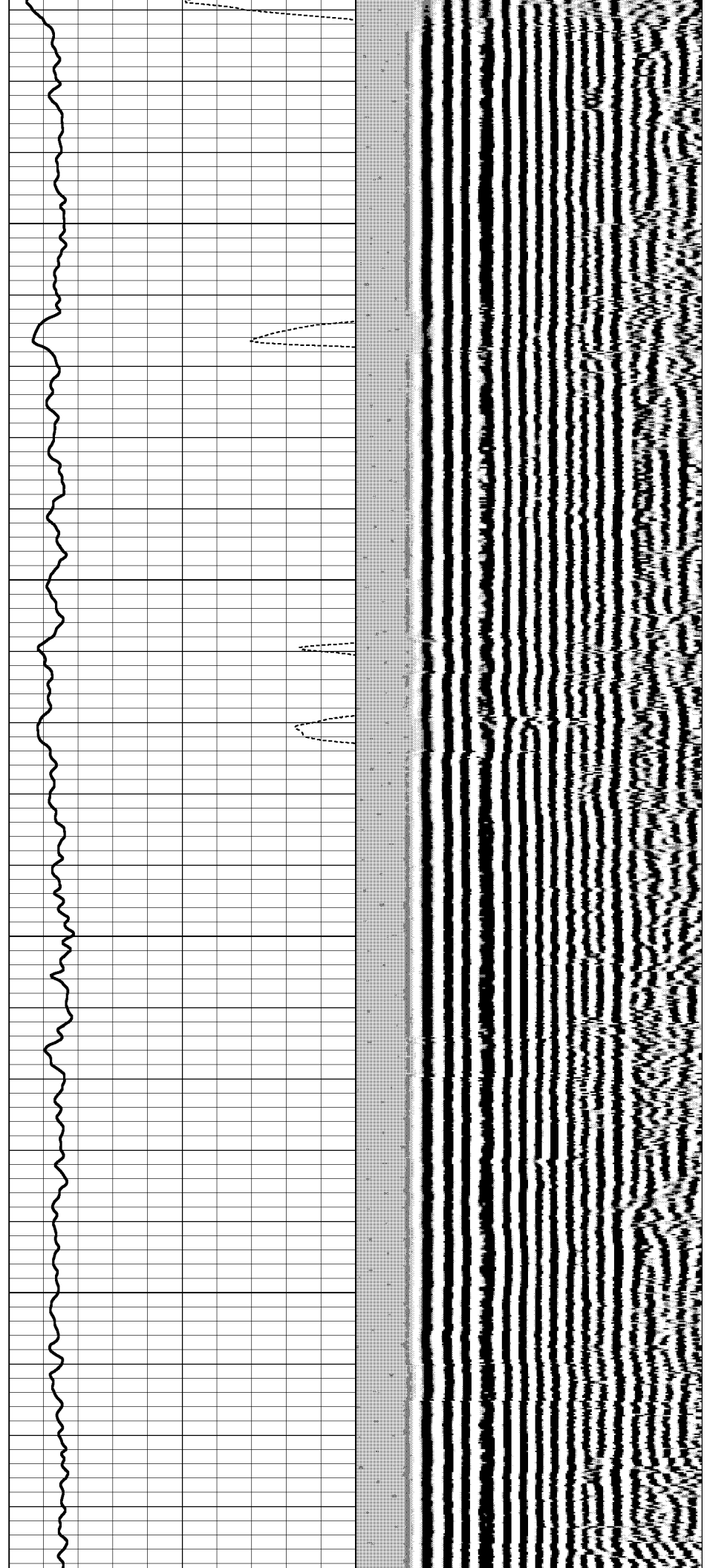
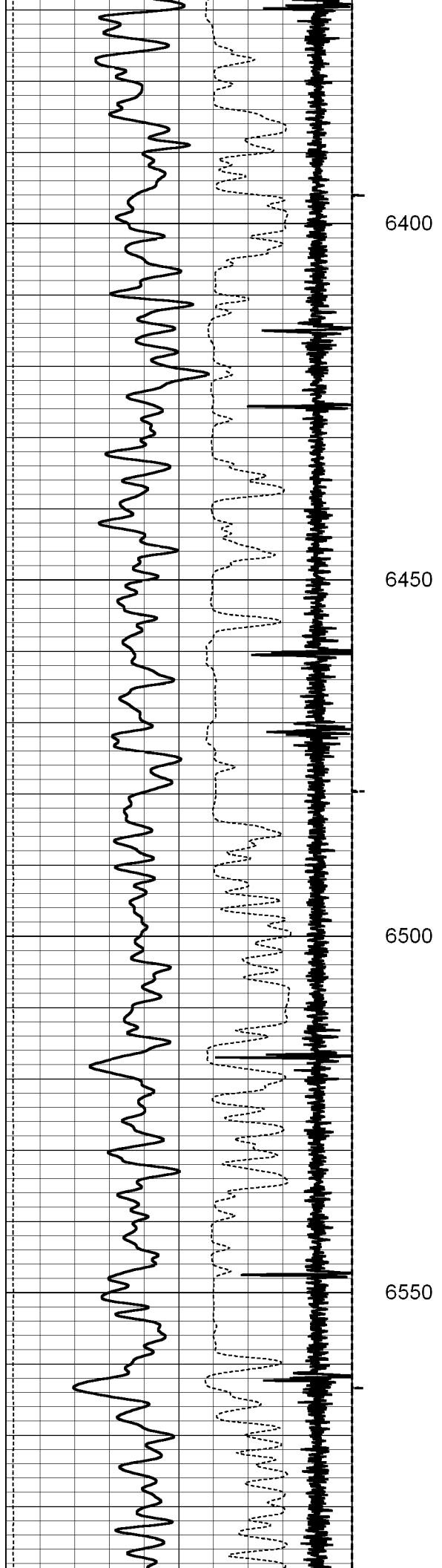




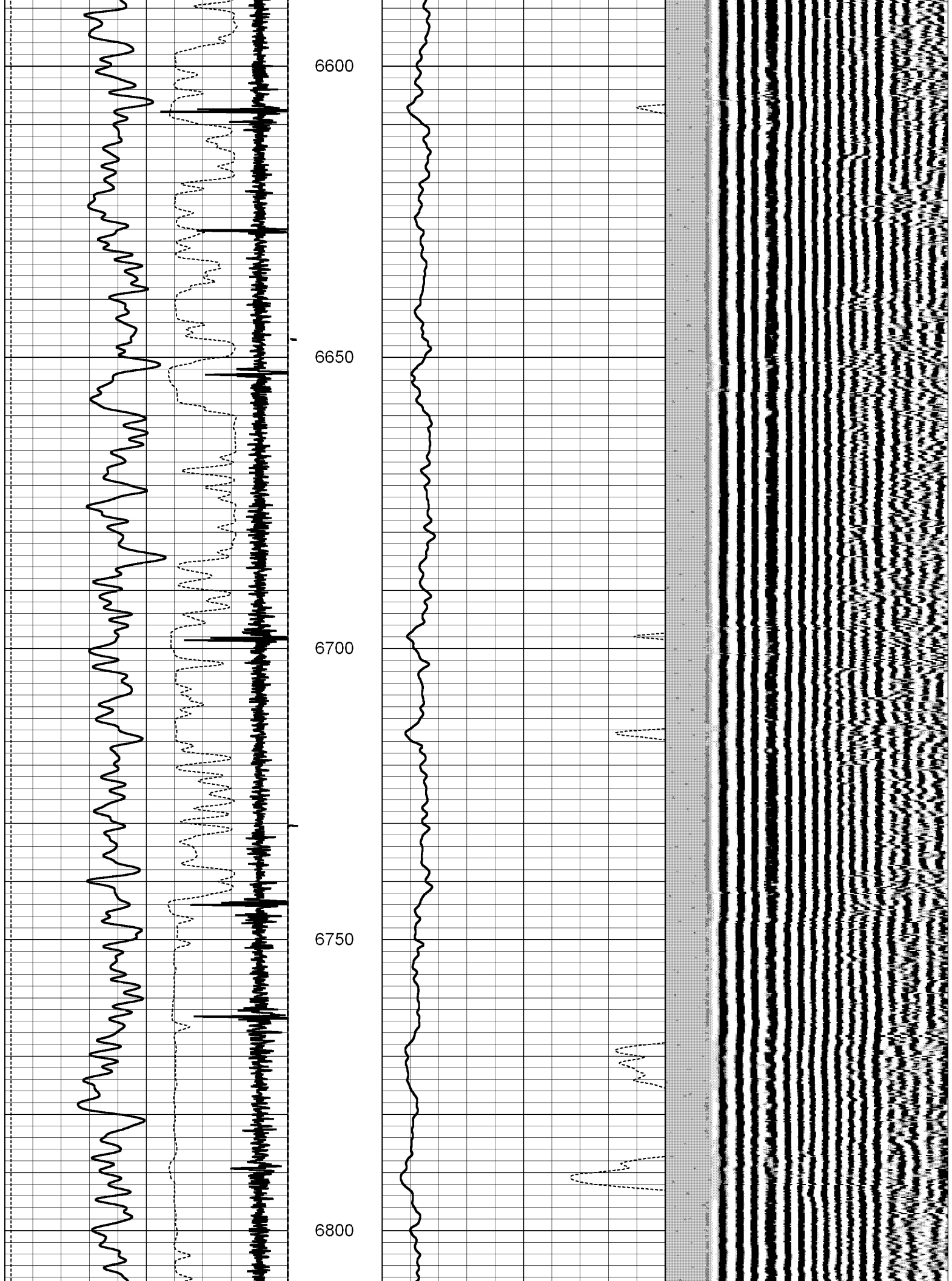


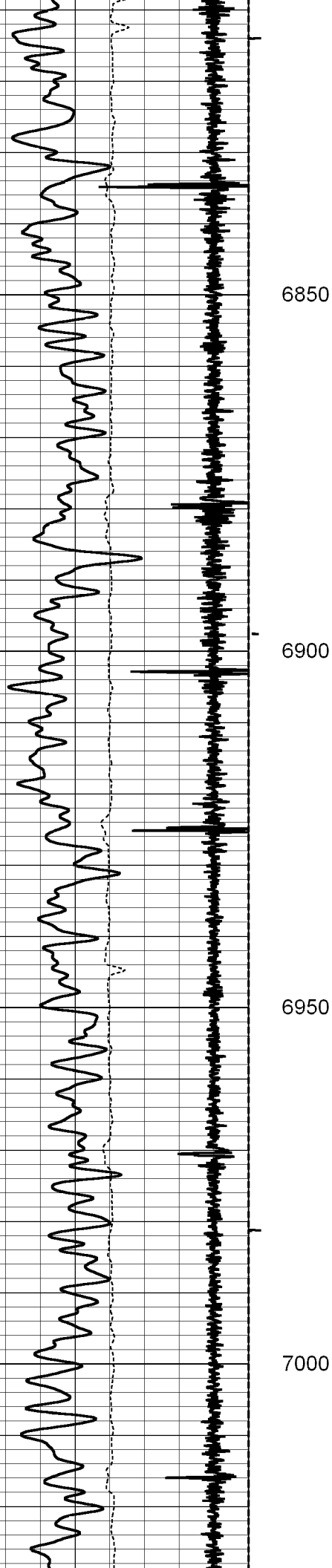










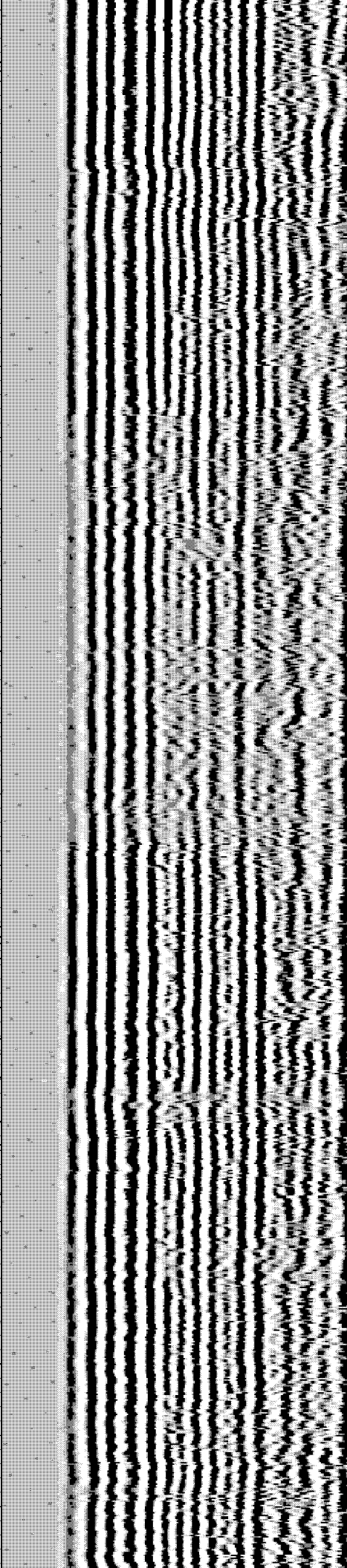
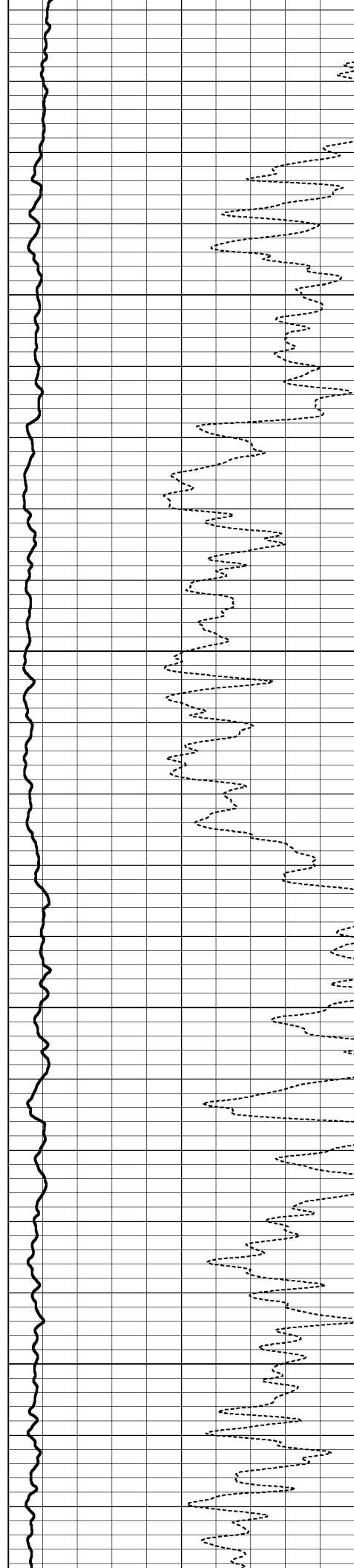


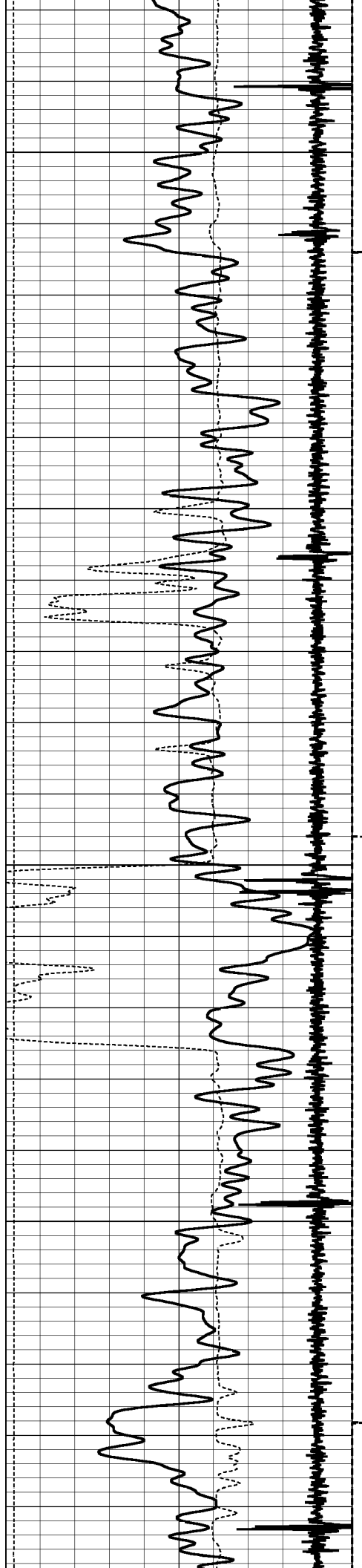
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6900

6950

7000



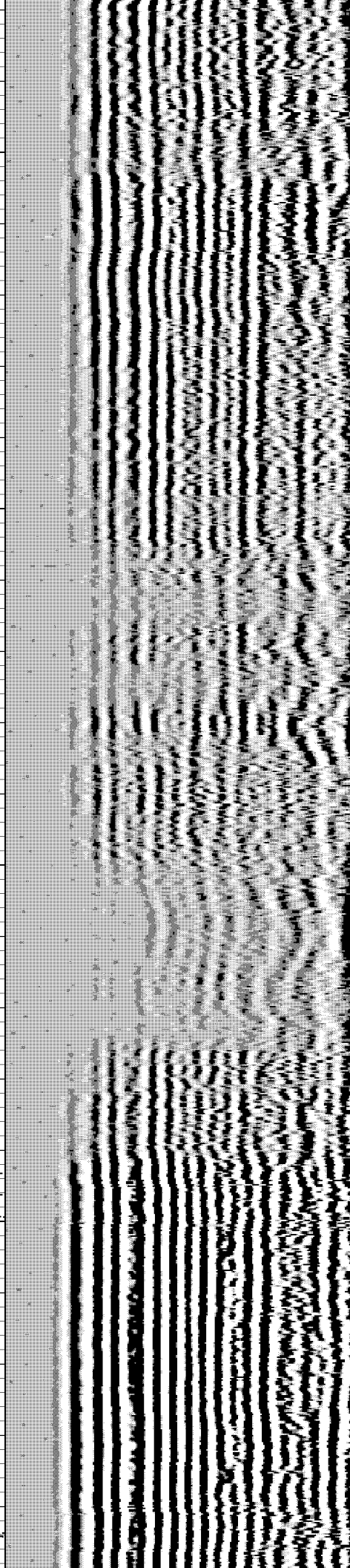
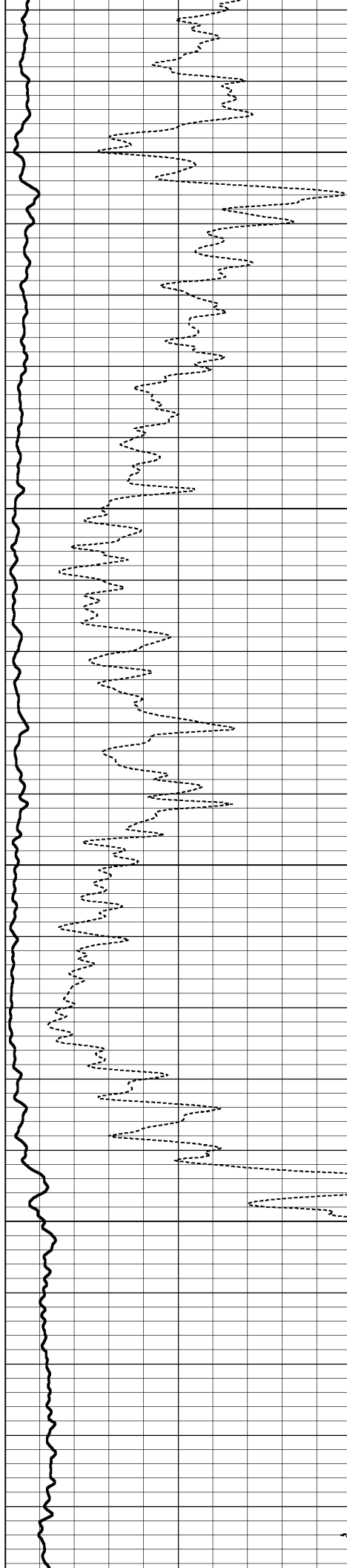


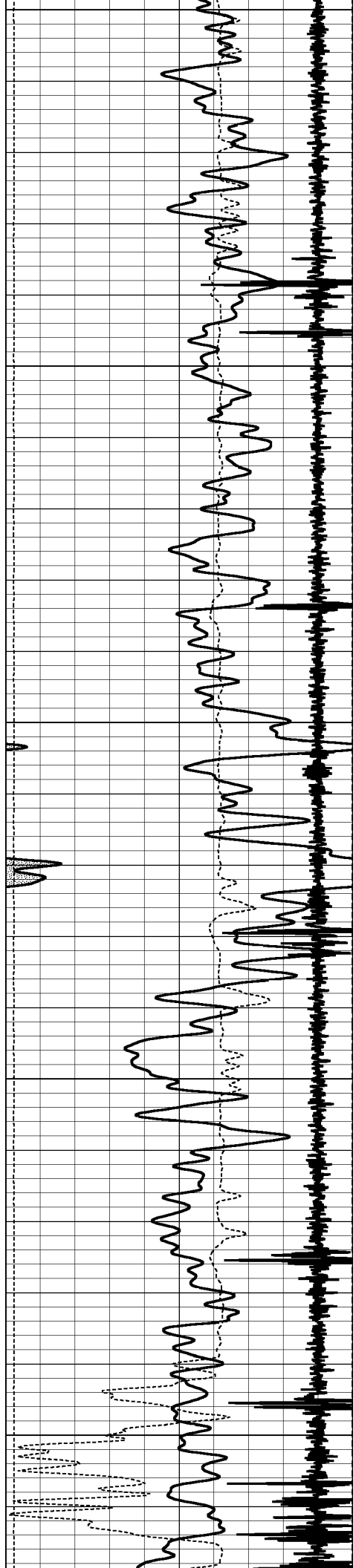
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7150

7200





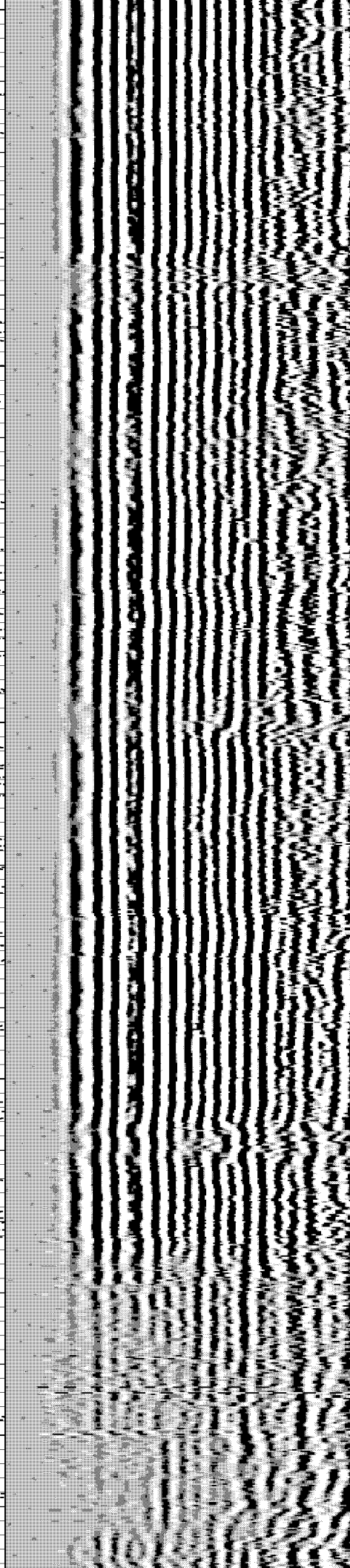
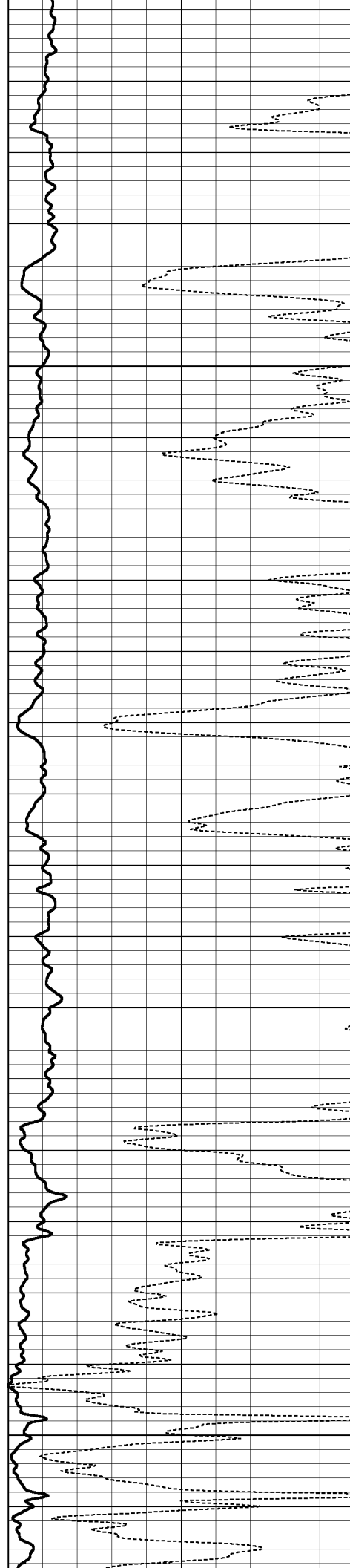
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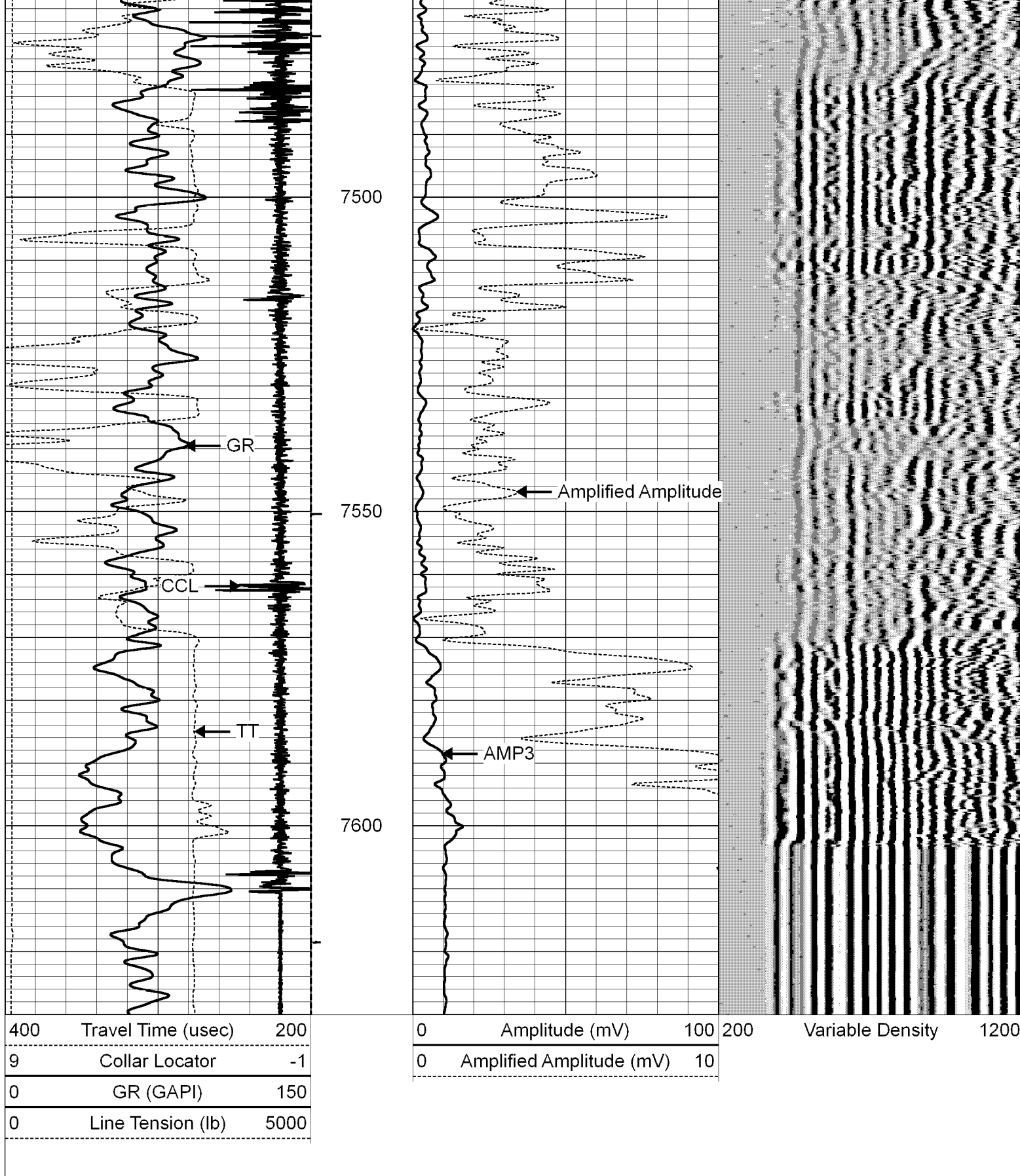
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7400

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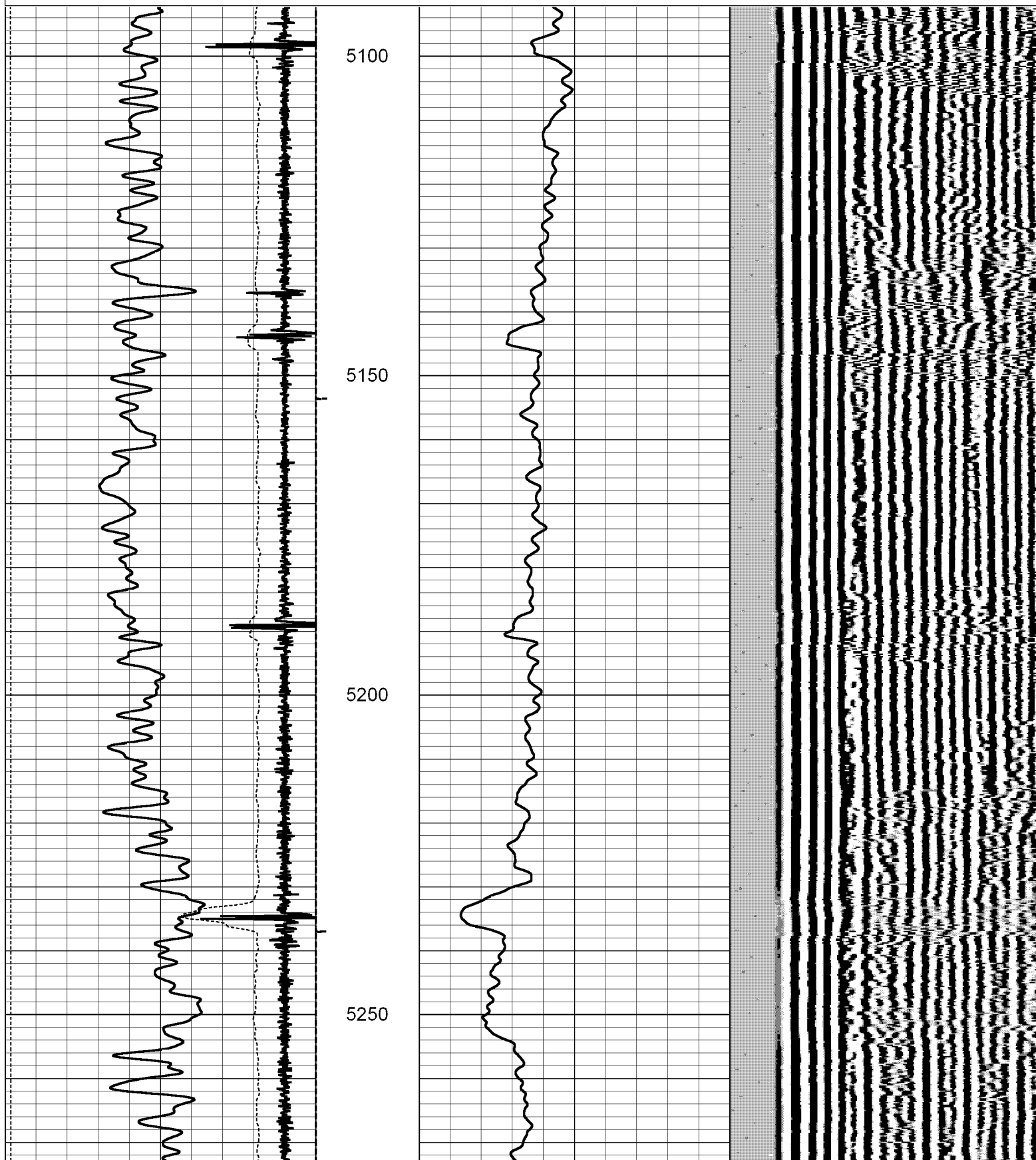


# REPEAT PASS

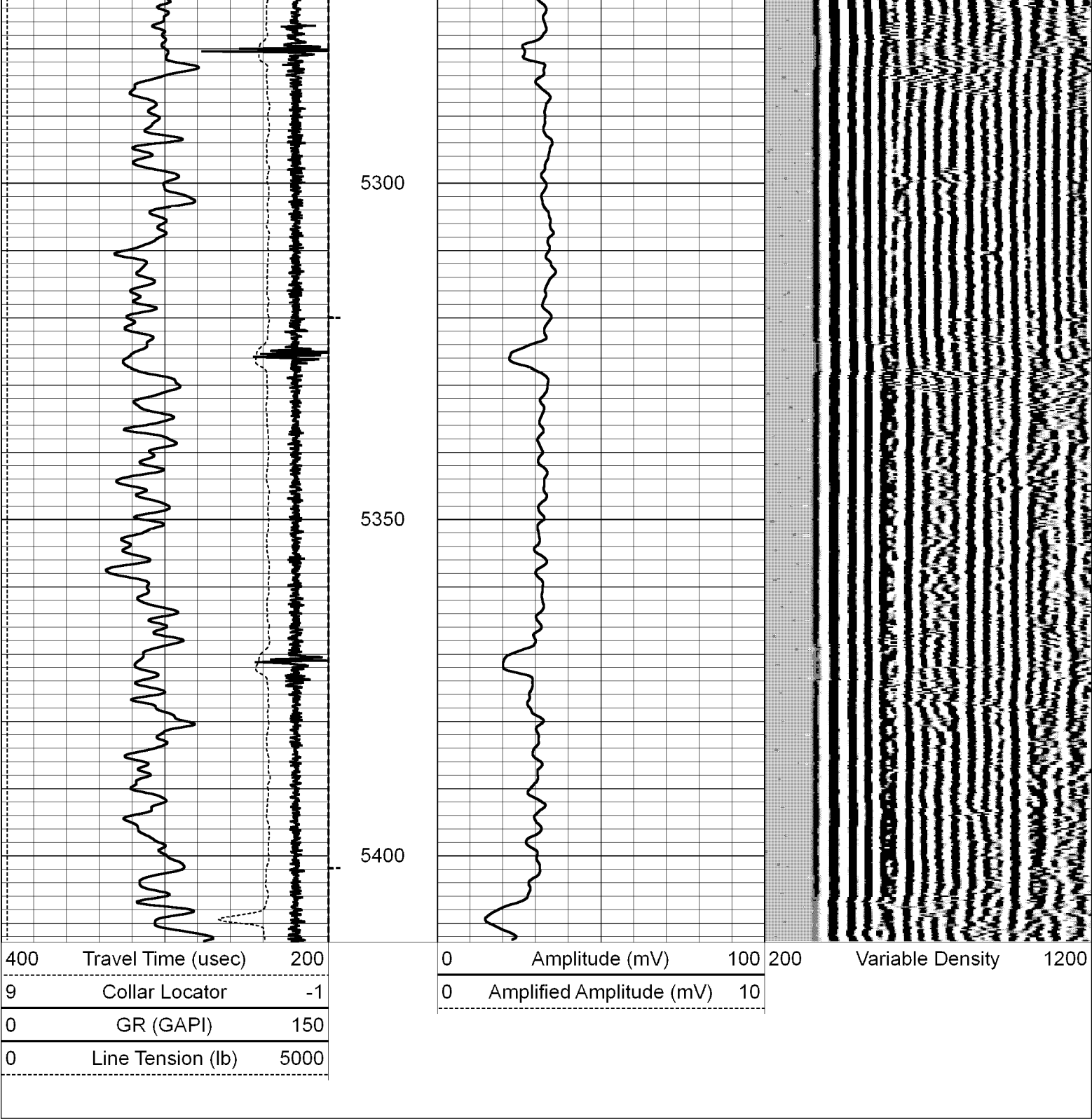
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Dataset Pathname: repeat/pass1

Dataset Name: repeat pass 1  
Presentation Format: cbl dig  
Dataset Creation: Wed Nov 18 11:03:27 2015  
Charted by: Depth in Feet scaled 1:240


400	Travel Time (usec)	200	0	Amplitude (mV)	100	200	Variable Density	1200
9	Collar Locator	-1	0	Amplified Amplitude (mV)	10			
0	GR (GAPI)	150						
0	Line Tension (lb)	5000						







Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			1.4375 Titan 1 7/16 Cablehead	1.50	1.44	2.00
			PTS275	2.83	2.75	

WVF3	16.27		CBL-Digital (080430) Probe 275 CBL Standard	9.17	2.75	100.00
WVF5	15.28					
			PTS275	2.83	2.75	
CCL	8.28					
			GR-Probe275dig (080829) Probe 2.75 High Temperature	6.36	2.75	57.00
GR	4.25					
			PTS275	2.83	2.75	
Dataset: 11182015_greatwestern_schneider_hd11-392hn.db: field/well/down/merge4 Total Length: 25.53 ft Total Weight: 159.00 lb O.D. 2.75 in						



Company	GREAT WESTERN OPERATING COMPANY LLC.		
Well	SCHNEIDER SOUTH HD11-392HN		
Field	WATTENBERG		
County	WELD		
State	COLORADO	Country	U.S.A.